



Analytical Resources, LLC
Analytical Chemists and Consultants

25 January 2023

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

RE: AOC4 UR Phase 3

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

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

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

Associated Work Order(s)
22L0104

Associated SDG ID(s)
N/A

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

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

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

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



AR: 22L0104

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

No 4161

Project/Client Name: AOC4 UR Phase 3
 Project Number: 180067-02.03H
 Contact Name: Amara Vandervort
 Sampled By: SR, TD

Ship to: ARL
 Attn: Sue Donahoe Shipping Date: _____
 Shipper: Cowier Airbill Number: _____
 Form filled out by: S. Ruppinger Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)				Comments / Instructions [Jar tag number(s)]
					PCB	4-methyl-phenol	Tucl Total Solids	Archive	
12-2-2022	0710	LOW22-SS773	3	Sediment	x	x	x	x	
1	0720	-SS774	3		x	x	x	x	
<i>[Handwritten signature]</i>									
Total Number of Containers			6	Purchase Order / Statement of Work # <u>APJ-110222-AOC4-ARL</u>					
1) Released by: <u>Amara Vandervort</u>		1) Rec'd by: <u>[Signature]</u>		2) Released by: <u>[Signature]</u>		2) Rec'd by: <u>Phillip Bates</u>			
Print name: <u>Amara Vandervort</u>		Company: <u>YA YA SAFETY</u>		Print name: <u>YARED</u>		Company: <u>AR</u>			
Signature: <u>[Signature]</u>		Date/Time: <u>12/5/22 1632</u>		Signature: <u>[Signature]</u>		Date/Time: <u>12/09/22 17:00</u>			
Company: <u>Windward</u>		Date/Time: <u>12/5/22 4:32 PM</u>		Company: <u>YA YA SAFETY</u>		Date/Time: <u>12/5/22 5:00 PM</u>			

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



200 West Mercer Street
 Suite 401
 Seattle, WA 98119
 Tel: (206) 378-1364
 Fax: (206) 217-9343

To be completed by Laboratory upon sample receipt:

Date of receipt: _____	Laboratory W.O. #: _____
Condition upon receipt: _____	Time of receipt: _____
Cooler temperature: <u>3.1, 5.1, 1.0, 6.0</u>	Received by: _____



Cooler Receipt Form

ARI Client: windward

Project Name: AOC 4 UR Phase 3

COC No(s): _____ NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____

Assigned ARI Job No: 22L0104

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO

Were custody papers included with the cooler? YES NO

Were custody papers properly filled out (ink, signed, etc.) YES NO

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

Time 17:00 3.1 5.1 1.0 6.0

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: J009708

Cooler Accepted by: PJB Date: 12/05/22 Time: 17:00

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler? YES NO

What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____

Was sufficient ice used (if appropriate)? NA YES NO

How were bottles sealed in plastic bags? Individually Grouped Not

Did all bottles arrive in good condition (unbroken)? YES NO

Were all bottle labels complete and legible? YES NO

Did the number of containers listed on COC match with the number of containers received? YES NO

Did all bottle labels and tags agree with custody papers? YES NO

Were all bottles used correct for the requested analyses? YES NO

Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs) ... NA YES NO

Were all VOC vials free of air bubbles? NA YES NO

Was sufficient amount of sample sent in each bottle? YES NO

Date VOC Trip Blank was made at ARI: _____ NA

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

Samples Logged by: PJB Date: 12/06/22 Time: 8:13 Labels checked by: _____

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: AOC4 UR Phase 3

Project Number: 180067-02.04

Project Manager: Ali Judkins

Reported:

01/25/2023 17:32

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0104-01	LDW22-SS773	Solid	12/02/22 07:10	12/05/22 17:00
22L0104-02	LDW22-SS774	Solid	12/02/22 07:20	12/05/22 17:00



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1201 3rd Ave, Suite 2600
Seattle WA, 98101

Project: AOC4 UR Phase 3
Project Number: 180067-02.04
Project Manager: Ali Judkins

Reported:
25-Jan-2023 17:32

Case Narrative

Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Work Order: 22L0104

Report revised to include results for LDW22-SS774.

Sample receipt

Samples as listed on the preceding page were received 05-Dec-2022 17:00 under ARI work order 22L0104. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Semivolatiles - EPA Method SW8270E

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

PCB Aroclors - EPA Method SW8082A

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

The batch BKL0190 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent difference (RPD) were within advisory control limits, reported under work order 22L0136.

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

Wet Chemistry (Total Organic Carbon)

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



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Seattle WA, 98101

Project: AOC4 UR Phase 3

Project Number: 180067-02.04

Project Manager: Ali Judkins

Reported:

25-Jan-2023 17:32

Case Narrative

Initial and continuing calibrations were within method requirements.

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

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

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

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



QUALIFIERS AND NOTES

<u>Qualifier</u>	<u>Definition</u>
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
J	Estimated concentration value detected below the reporting limit.
H	Hold time violation - Hold time was exceeded.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



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

Laboratory: Analytical Resources, LLC

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Matrix: Sediment

Laboratory ID: 22L0104-01 B

SDG: 22L0104

Sampled: 12/02/22 07:10

Prepared: 12/09/22 14:39

File ID: NT1422123073.D

% Solids: 47.96

Preparation: EPA 3546 (Microwave)

Analyzed: 01/01/23 03:41

Batch: BKL0193

Sequence: SKL0355

Initial/Final: 20.89 g Wet / 1 mL

Instrument: NT14

Column: ZB-5MS

Calibration: FL00066

Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	748.59	623	83.2	29 - 120	
2-Chlorophenol-d4	748.59	658	87.9	31 - 120	
1,2-Dichlorobenzene-d4	499.06	397	79.6	32 - 120	
Nitrobenzene-d5	499.06	484	97.0	30 - 120	

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123073.D

Date : 01-JAN-2023 03:41

Client ID:

Sample Info: 22L0104-01

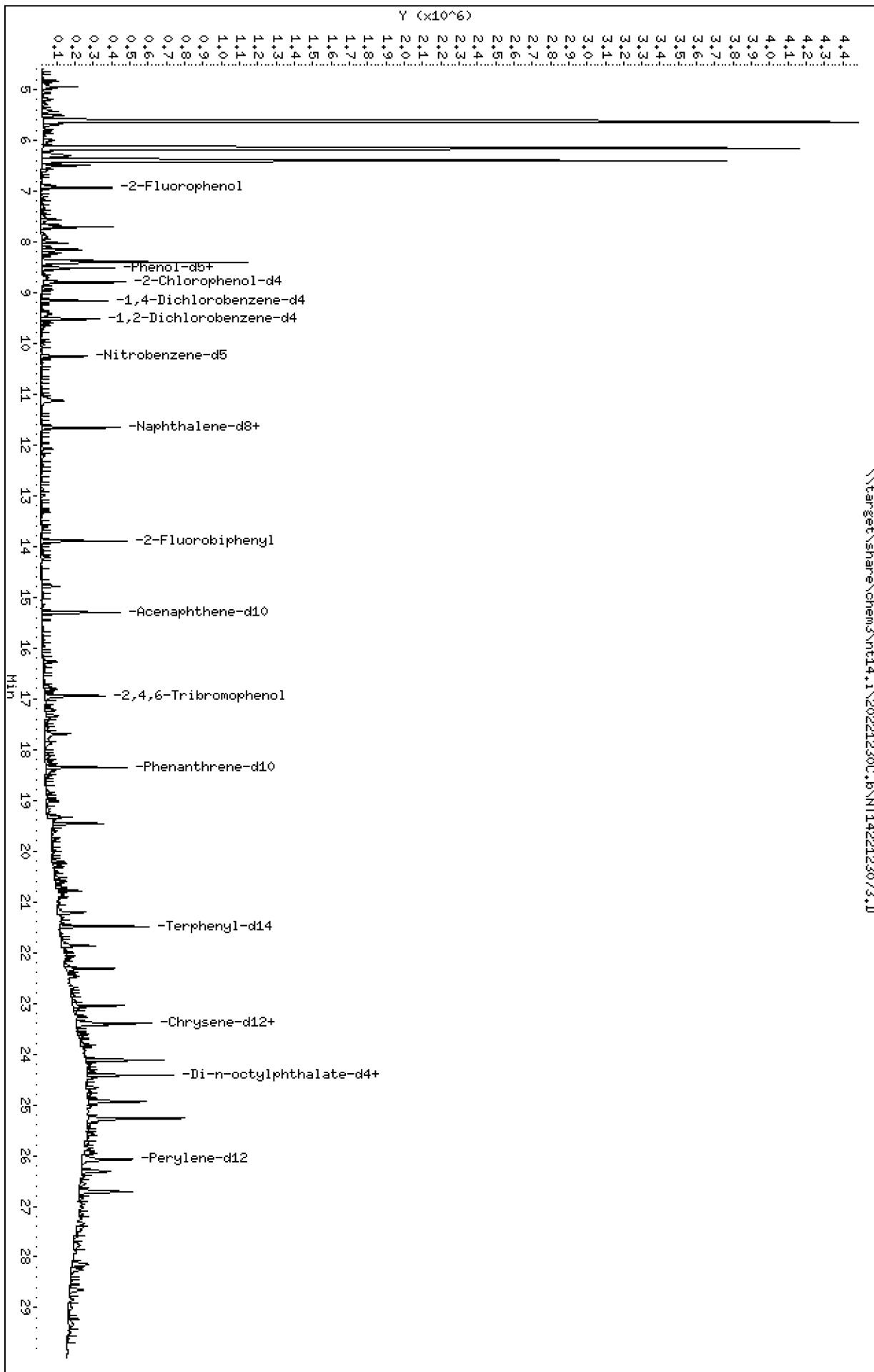
Page 1

Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

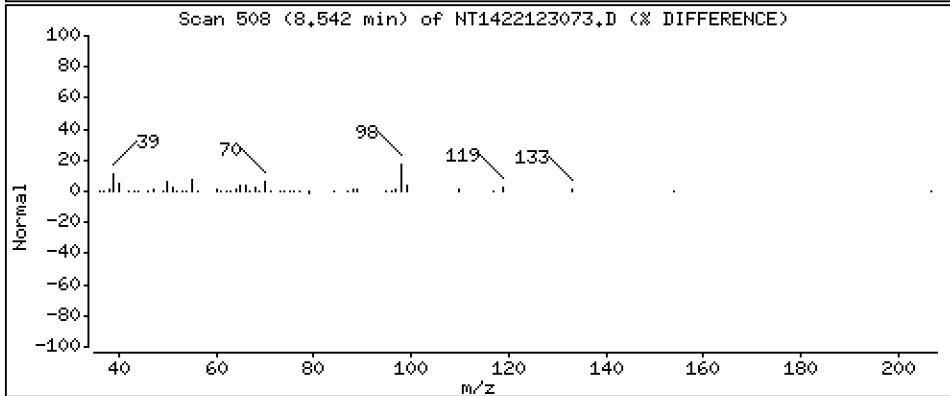
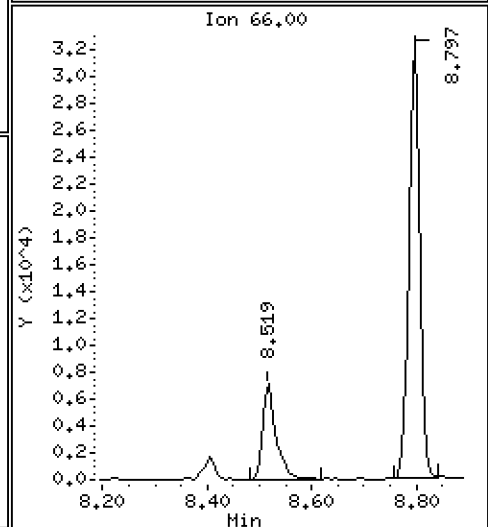
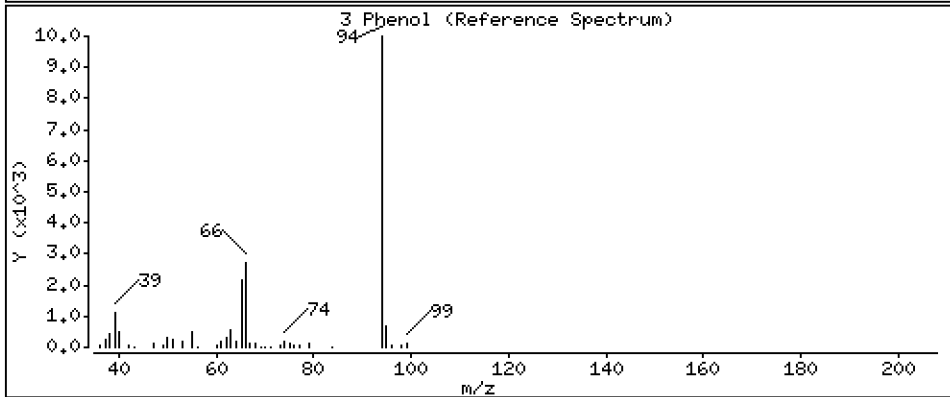
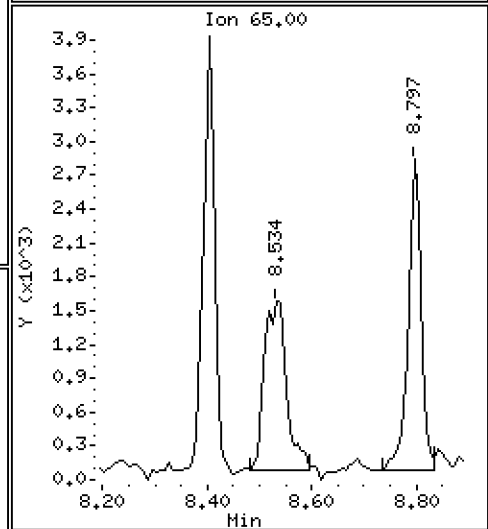
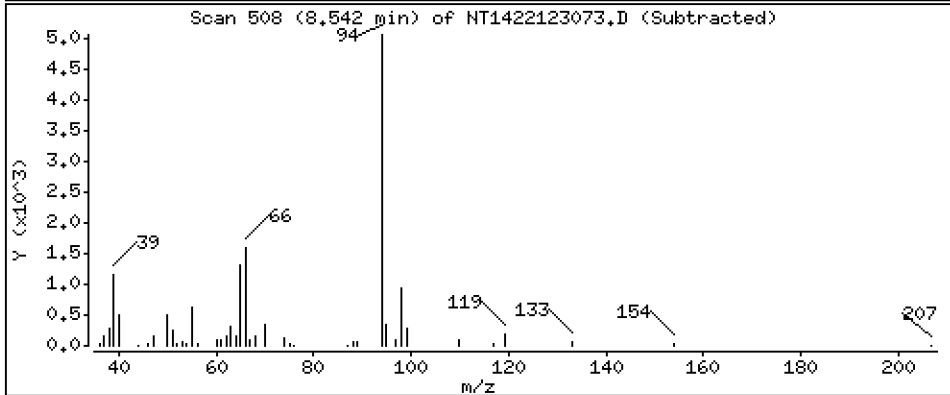
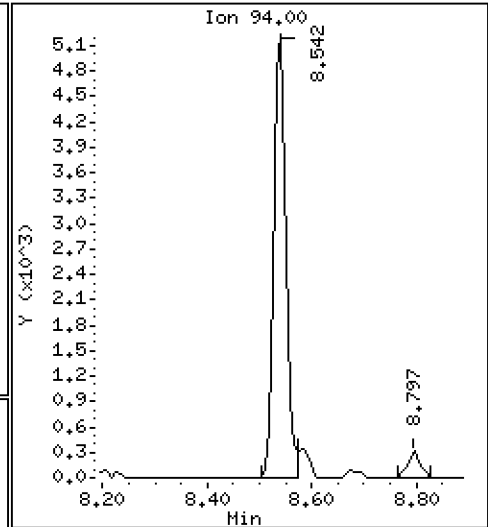
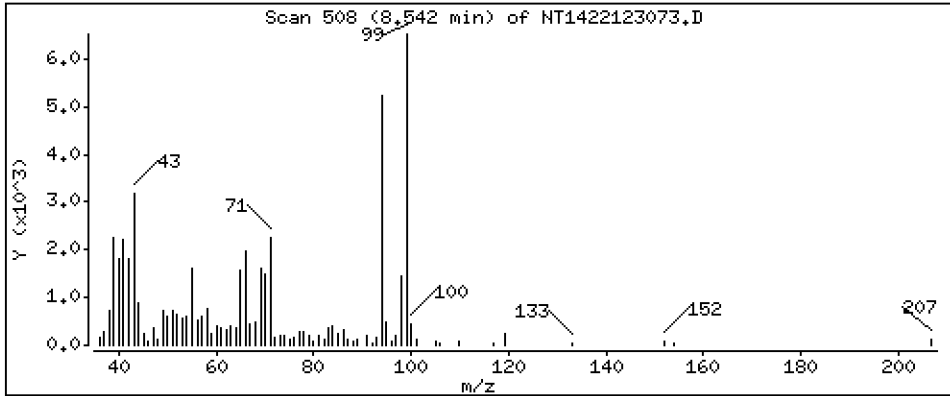
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2033 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

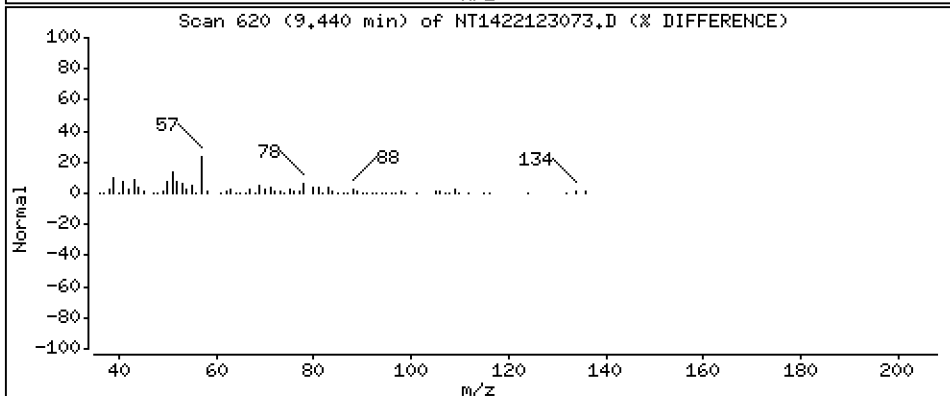
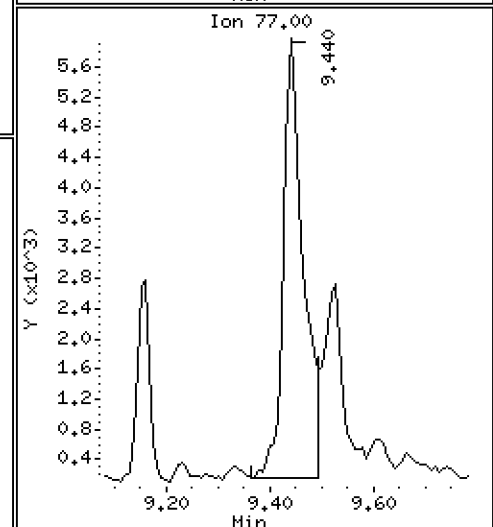
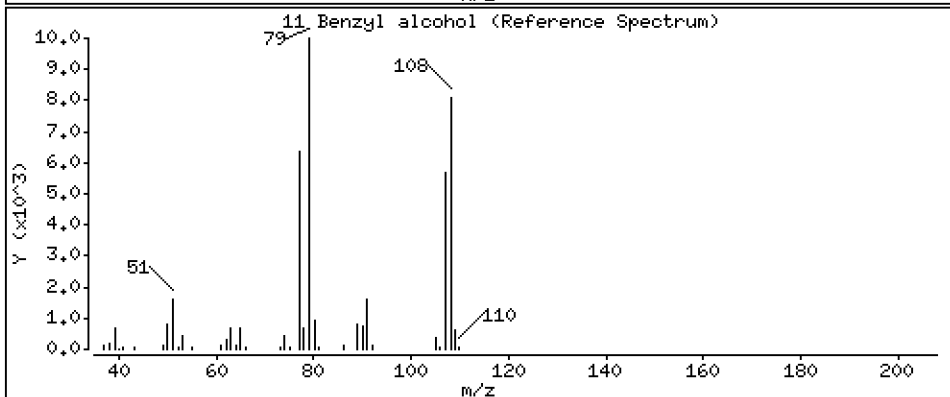
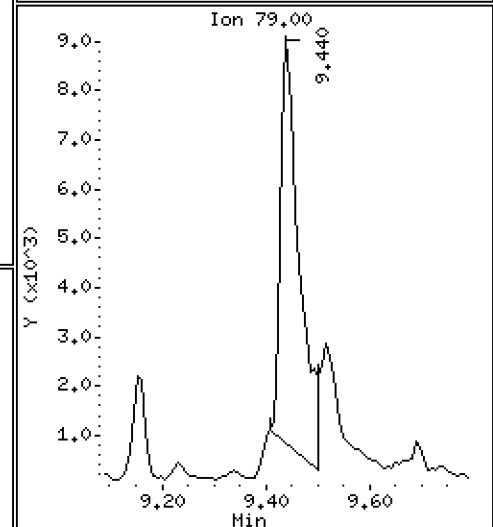
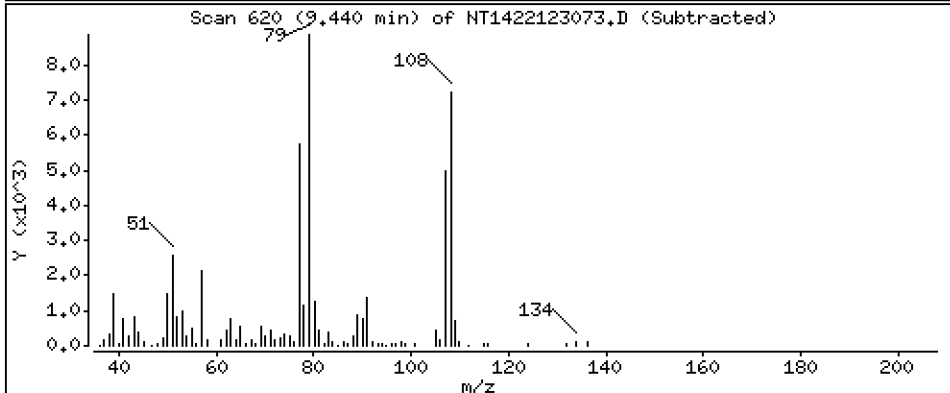
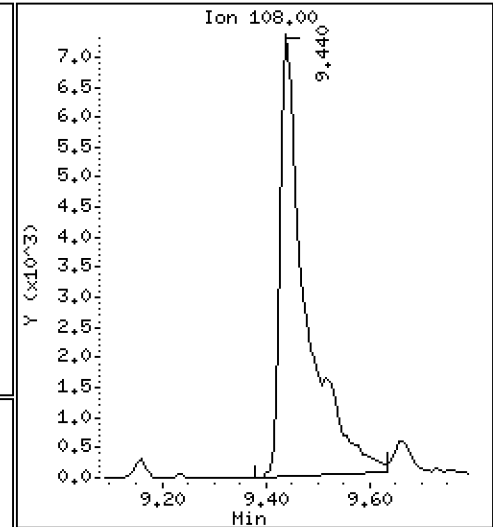
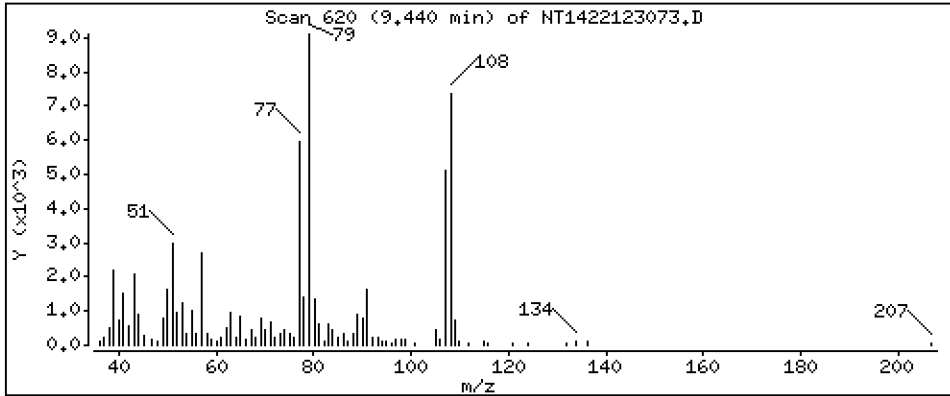
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 1,409 ug/mL

11 Benzyl alcohol



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

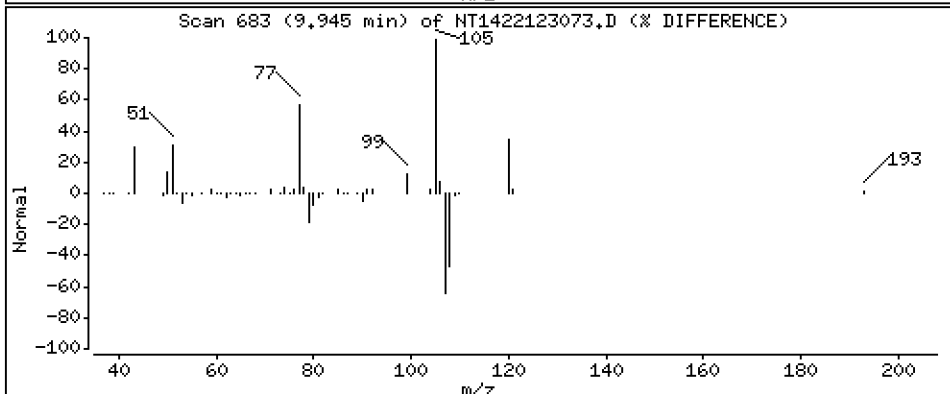
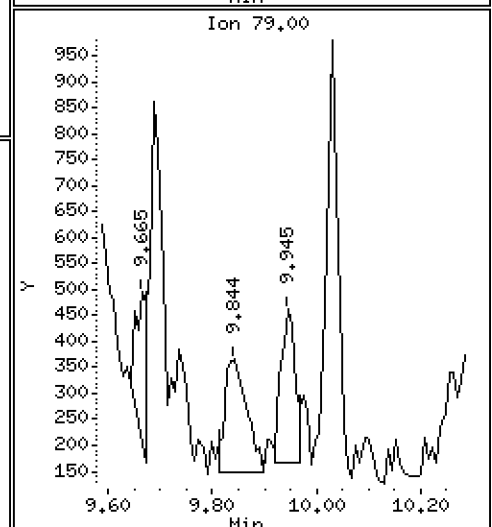
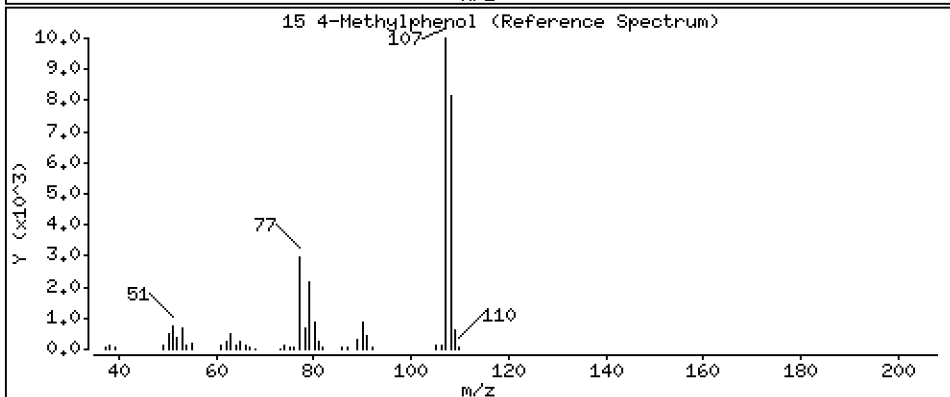
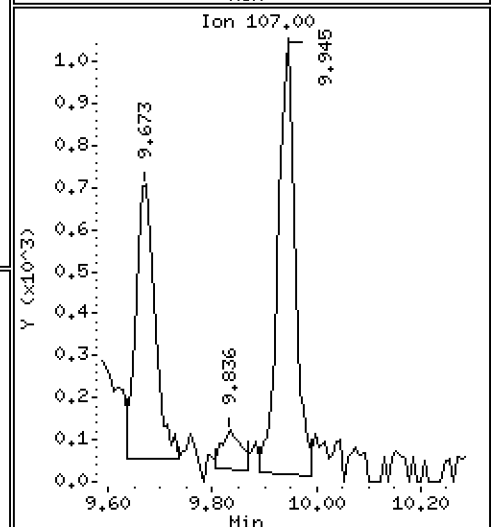
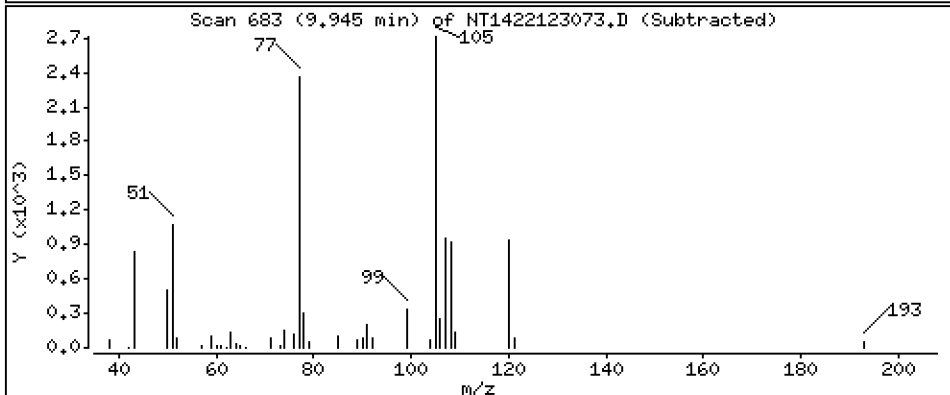
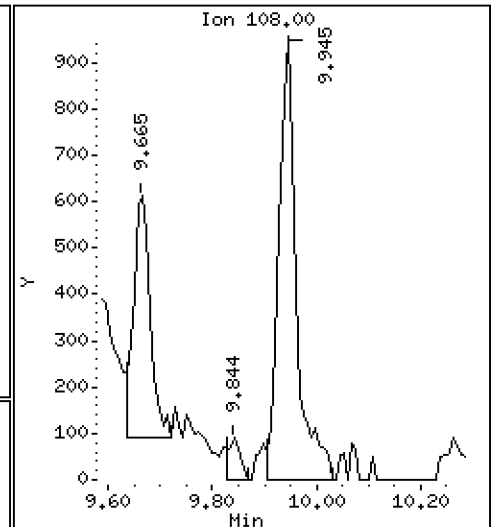
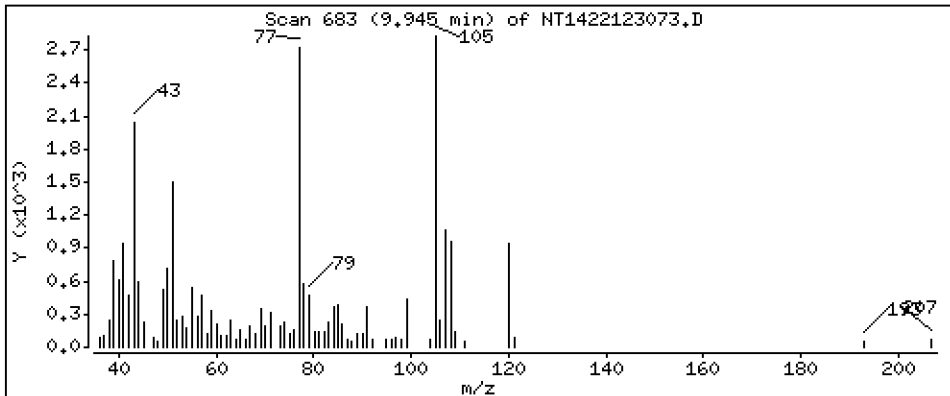
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.07323 ug/mL

15 4-Methylphenol



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

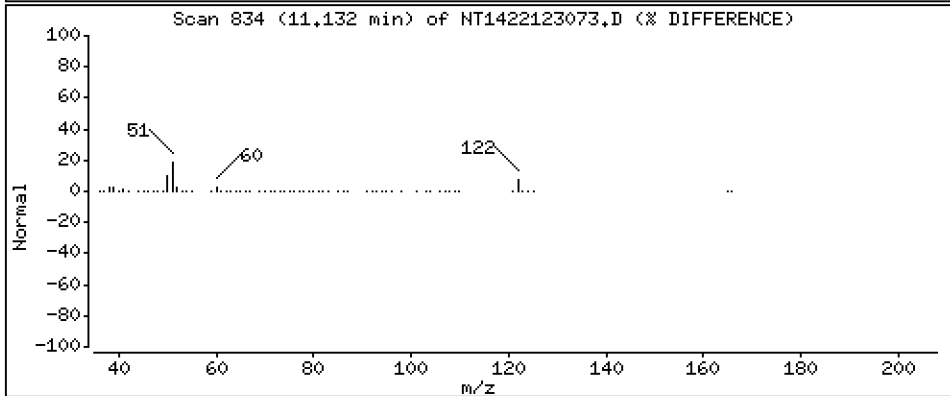
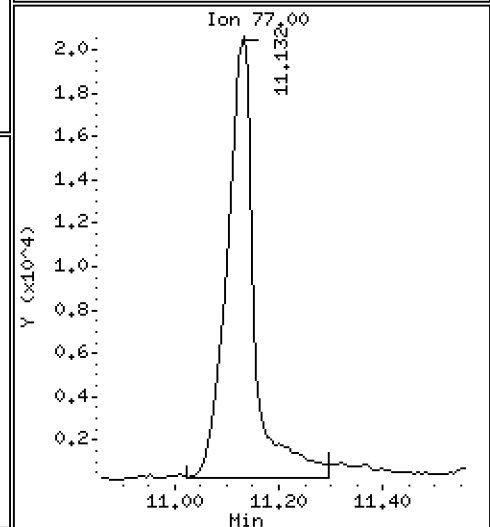
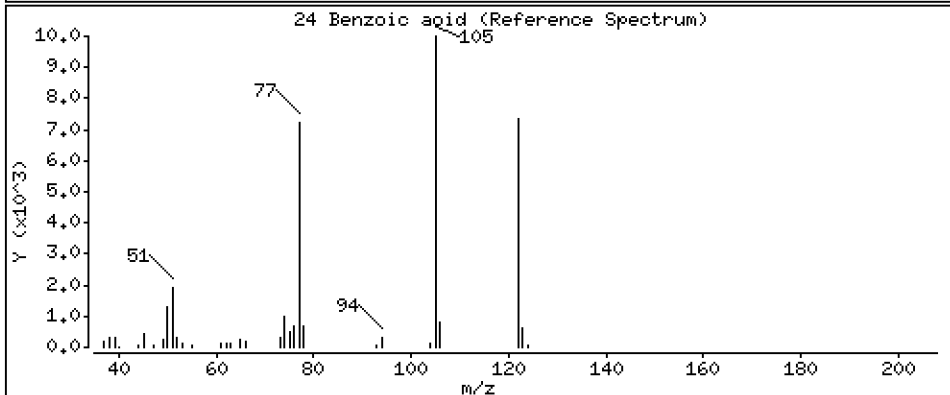
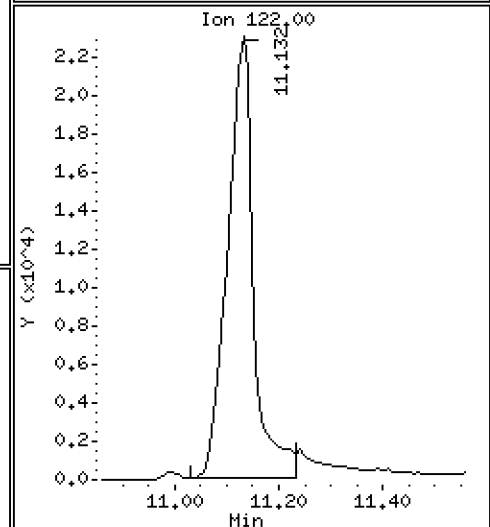
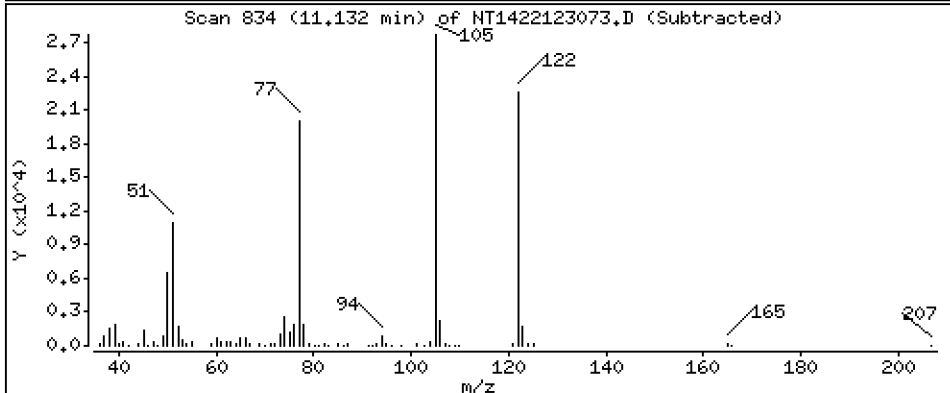
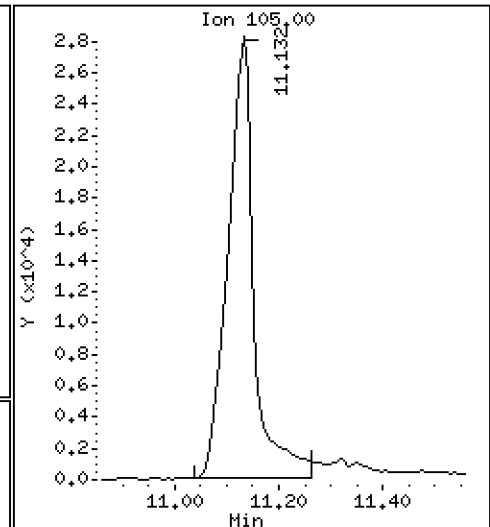
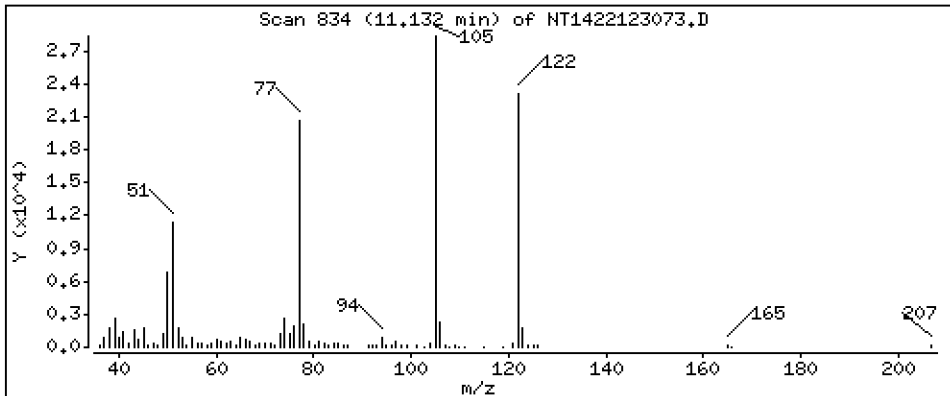
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 5,740 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

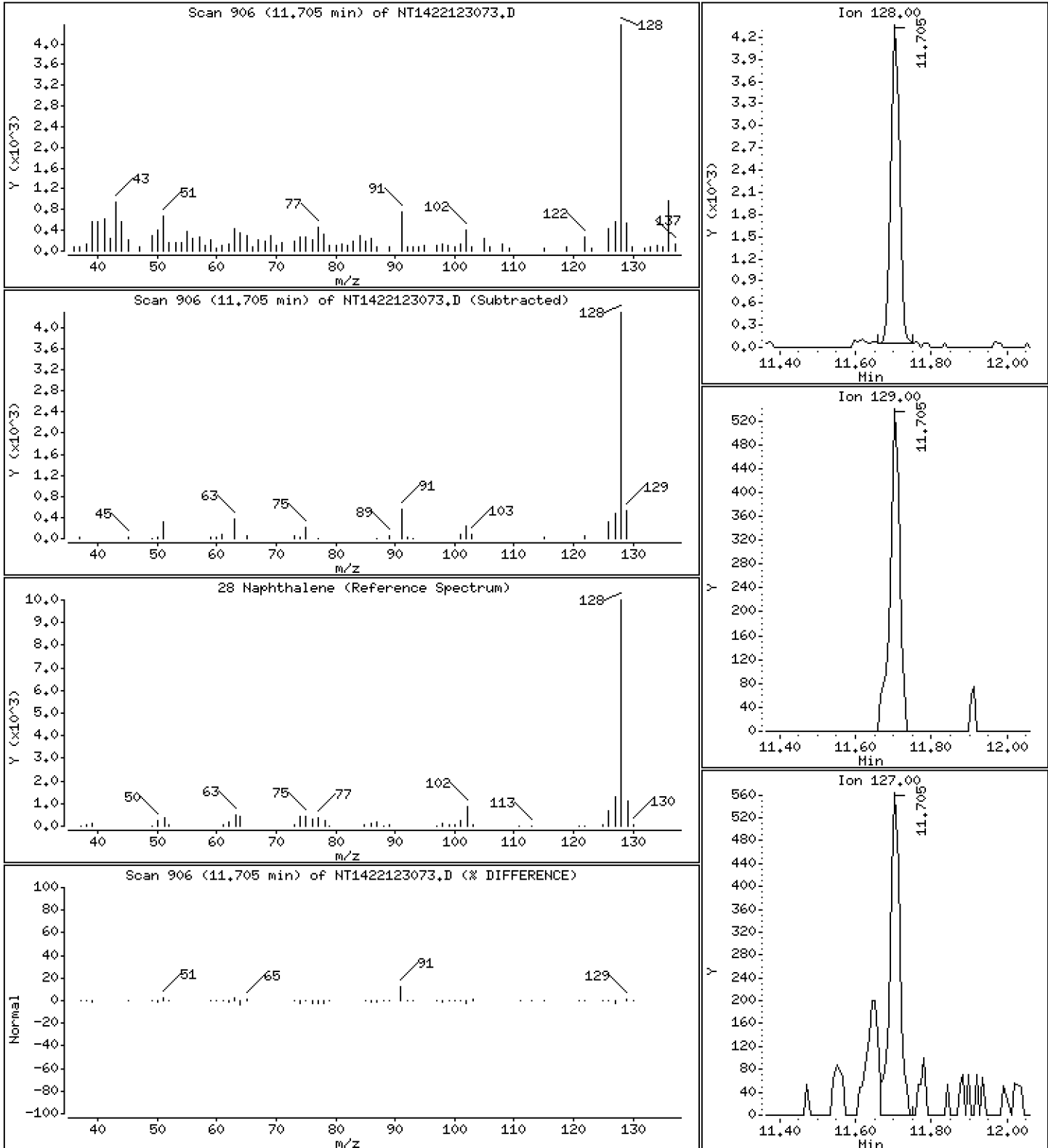
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,08285 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

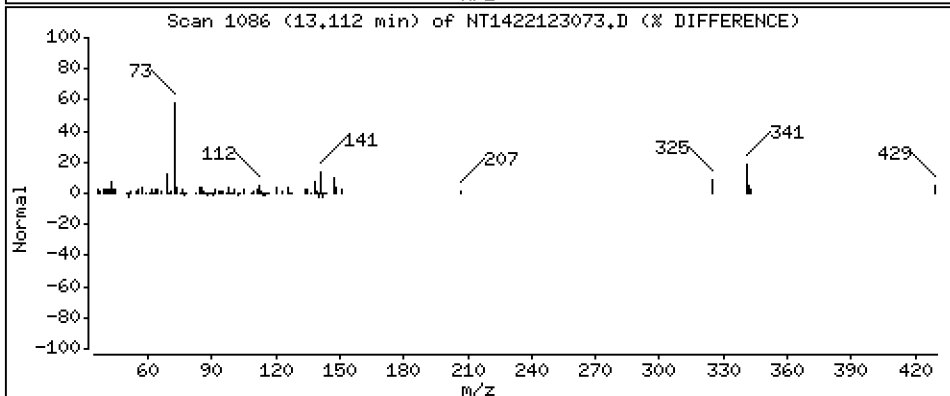
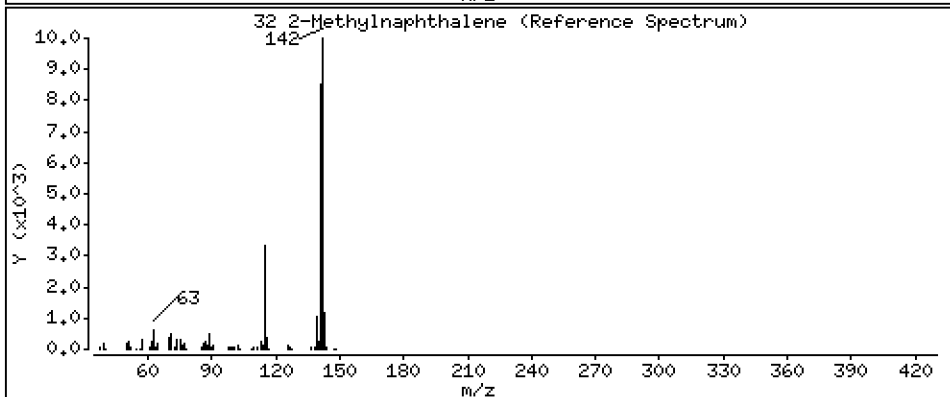
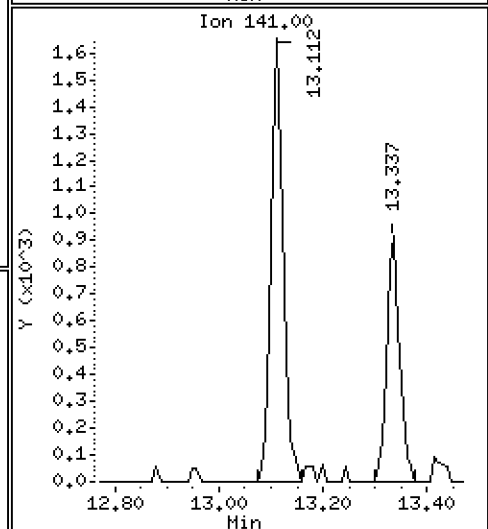
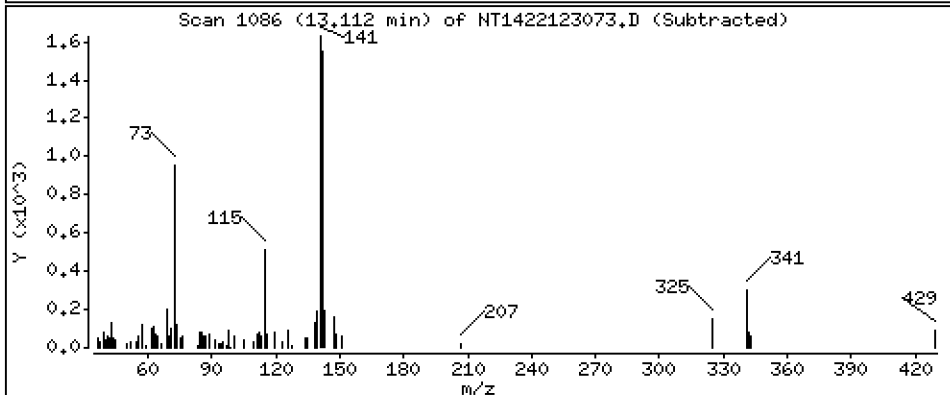
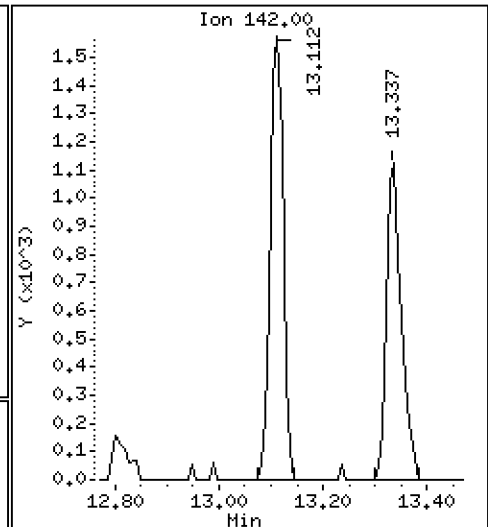
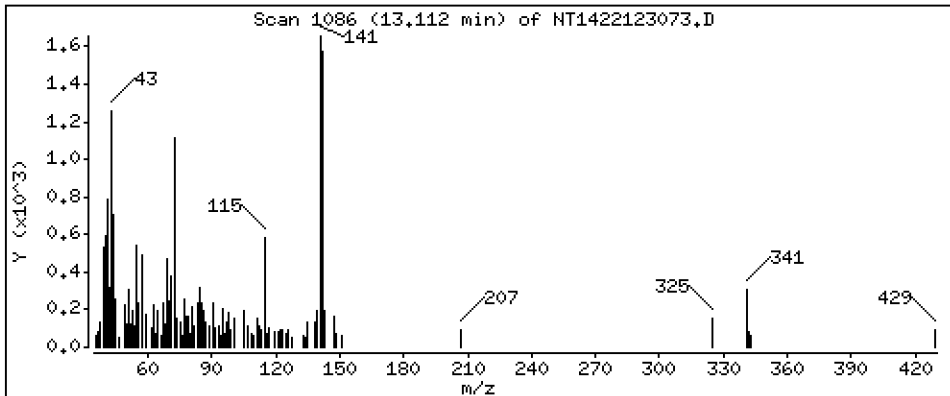
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,04571 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

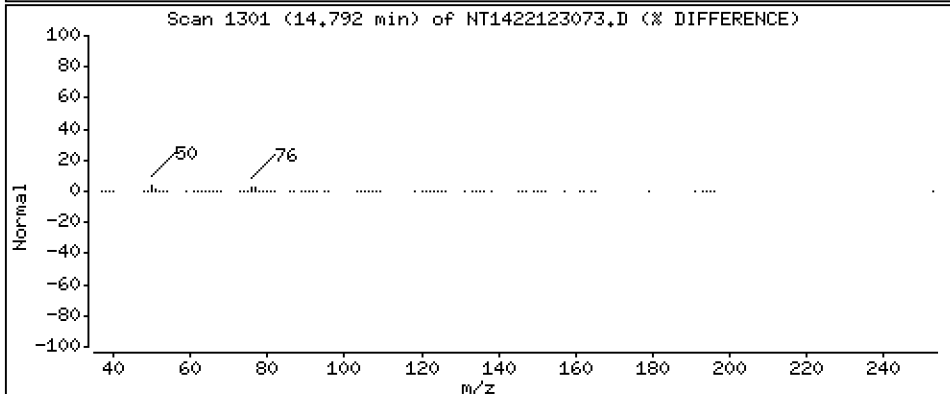
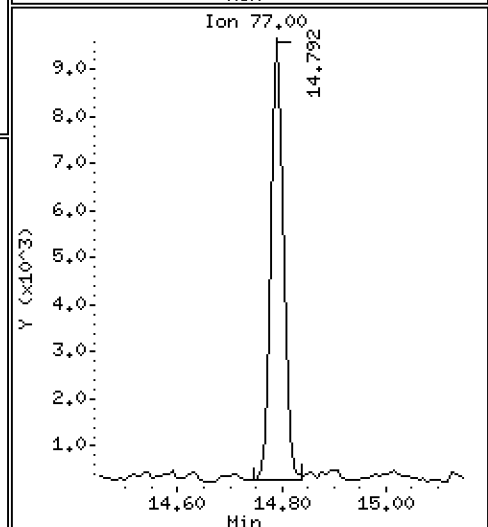
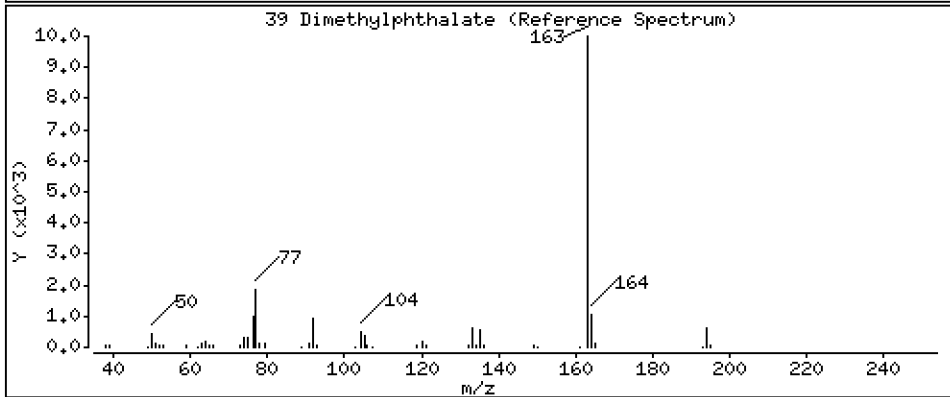
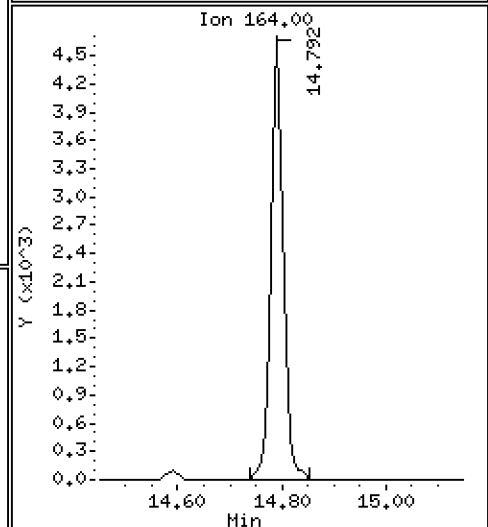
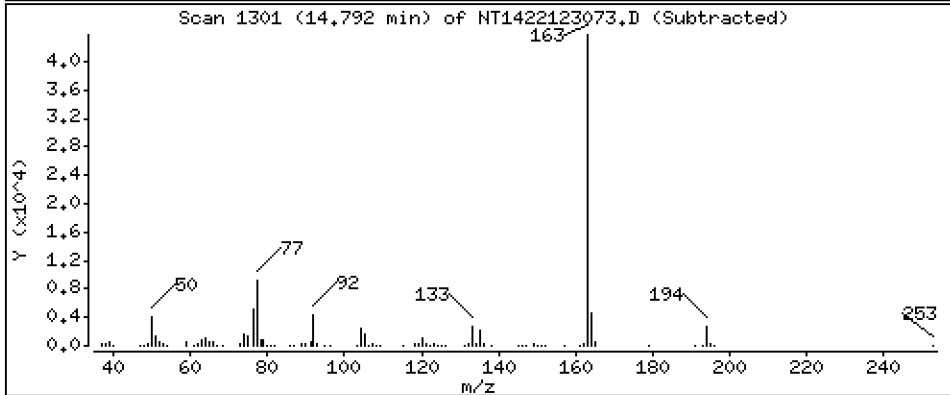
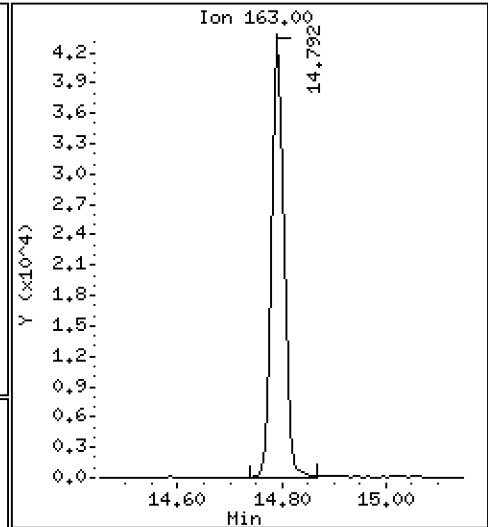
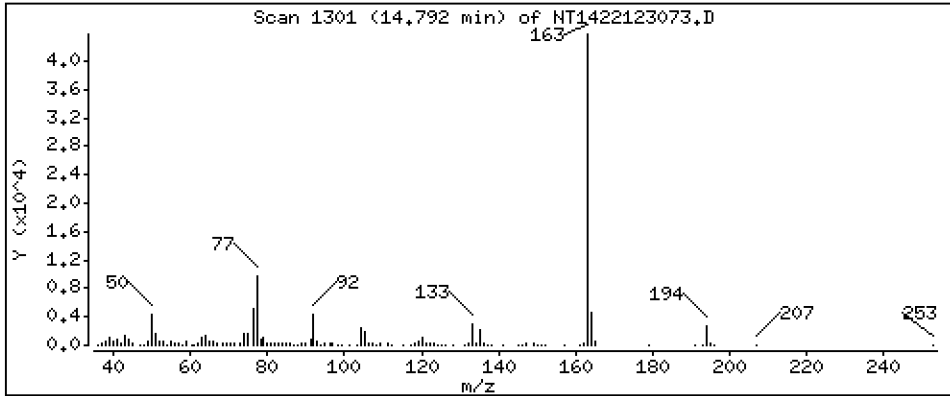
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 1,564 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

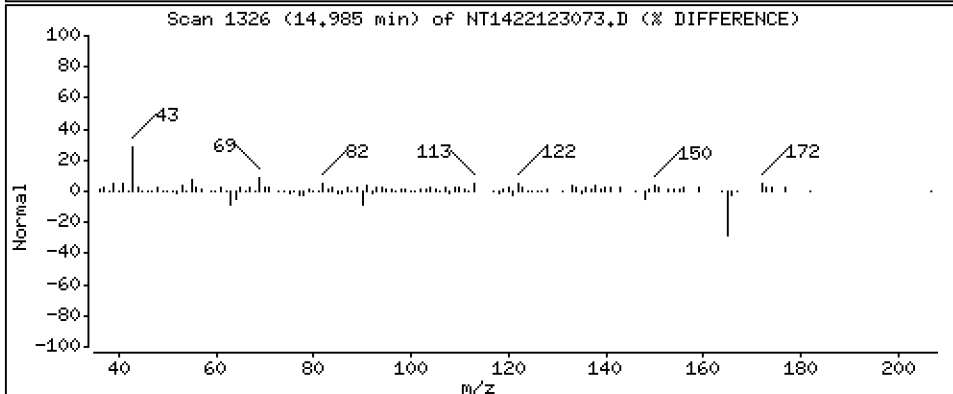
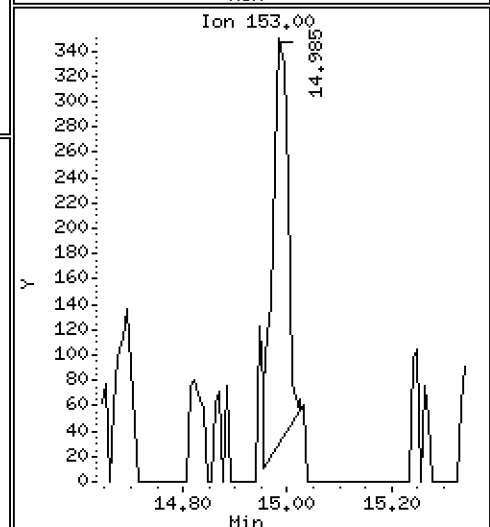
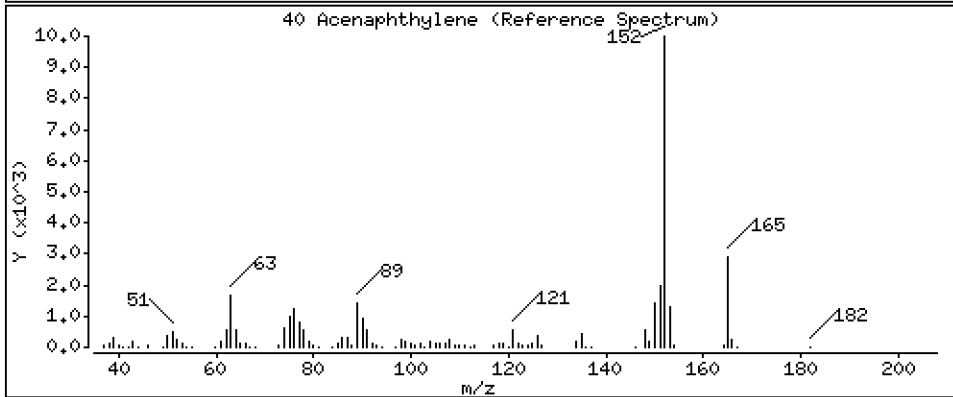
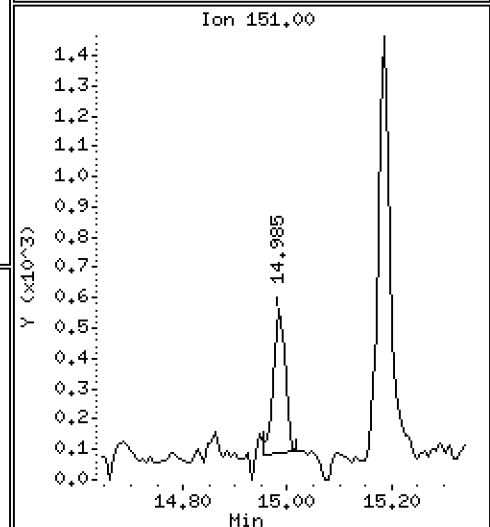
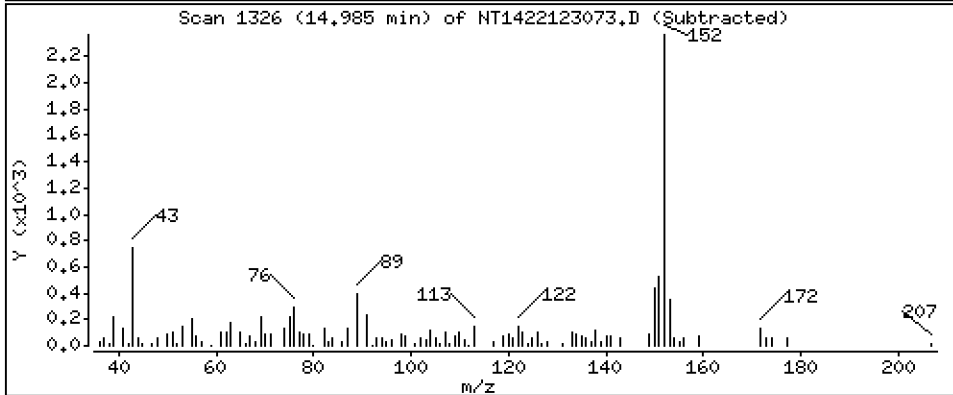
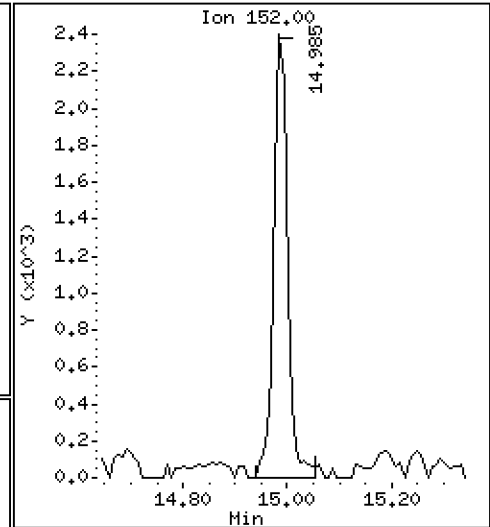
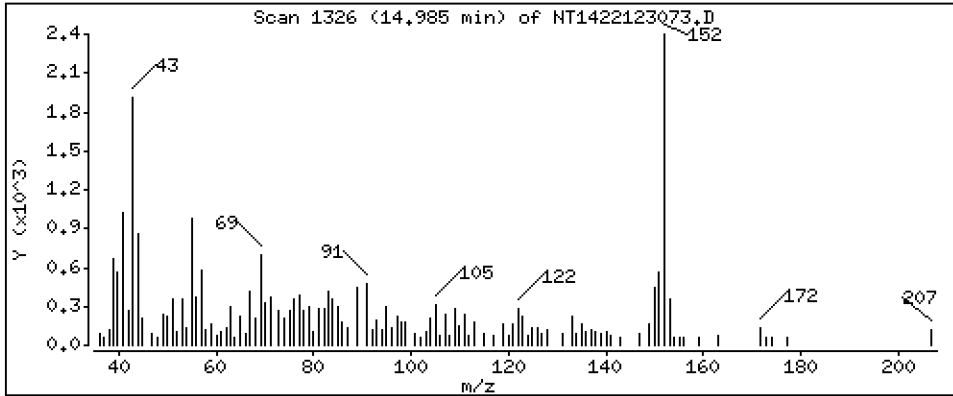
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

40 Acenaphthylene

Concentration: 0.06144 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

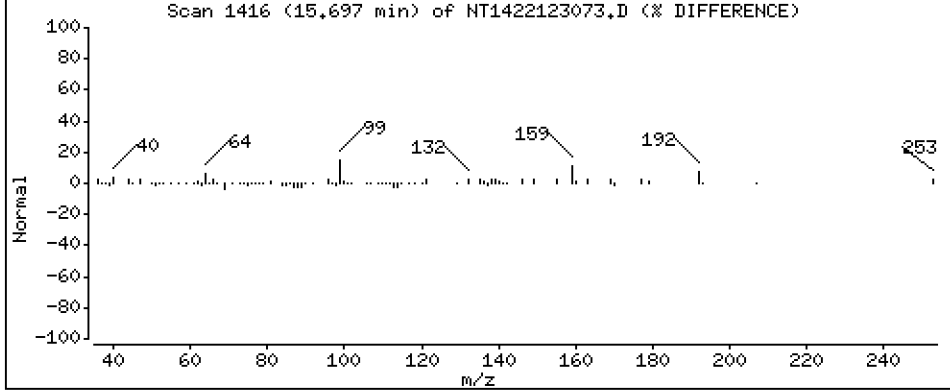
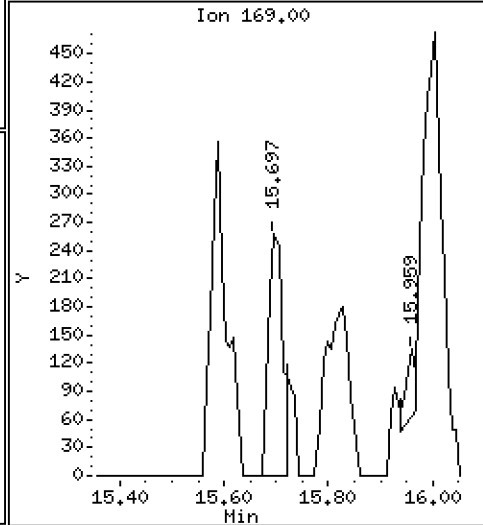
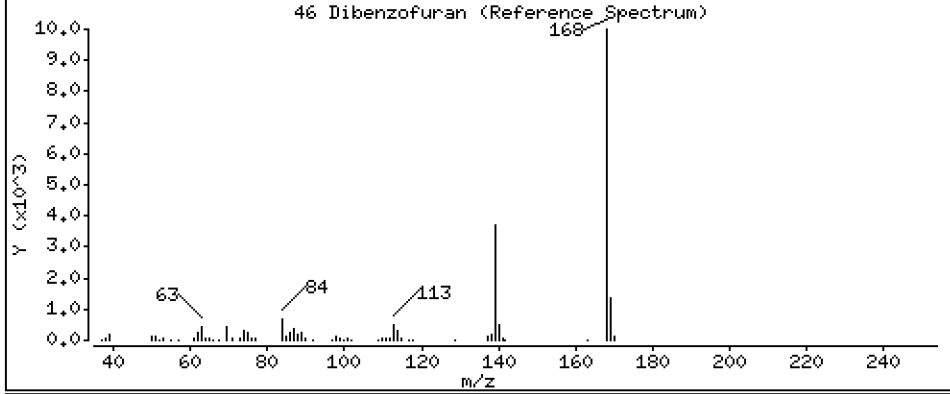
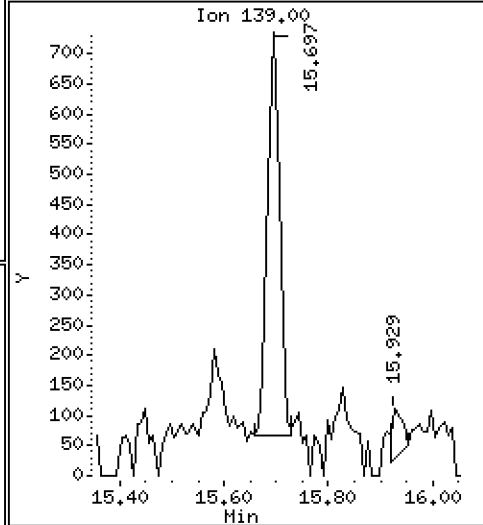
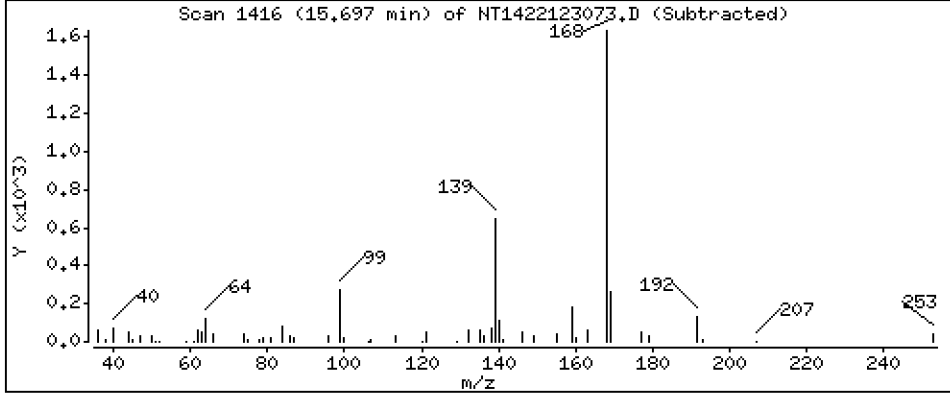
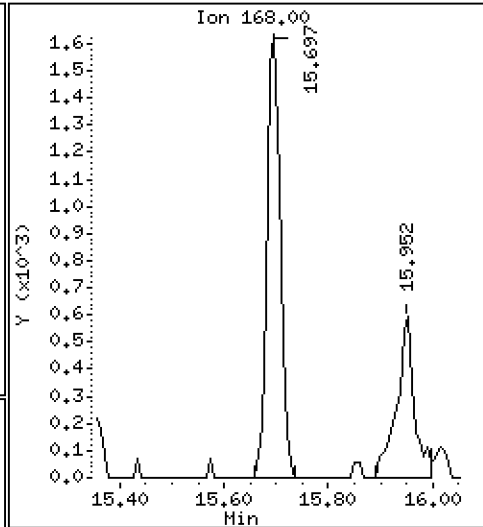
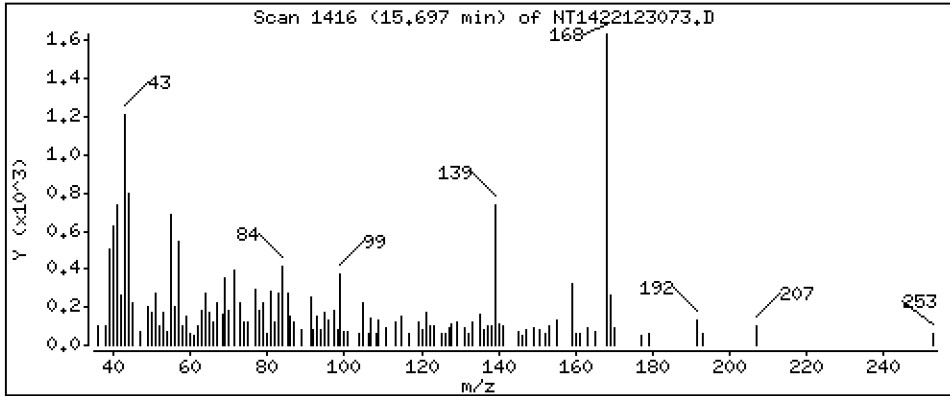
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,04256 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

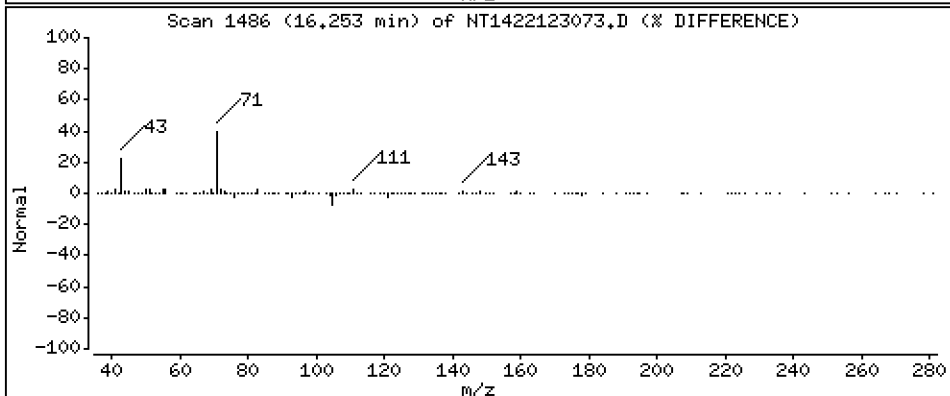
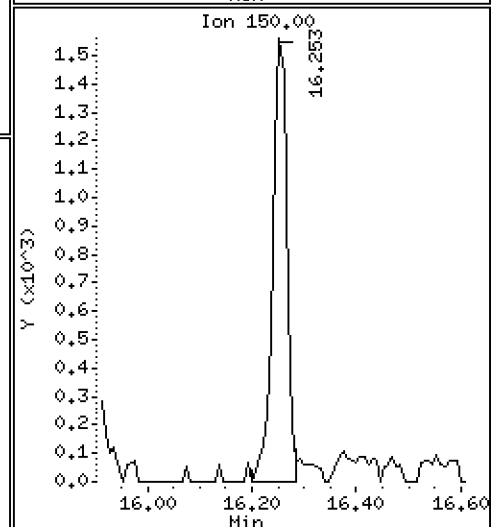
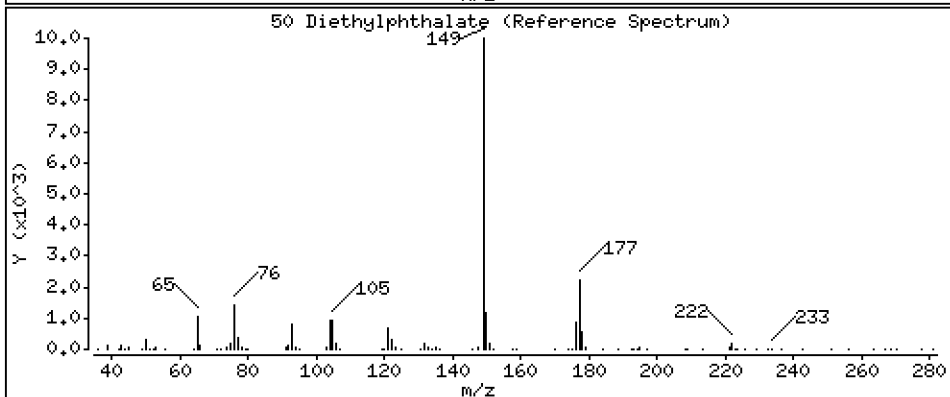
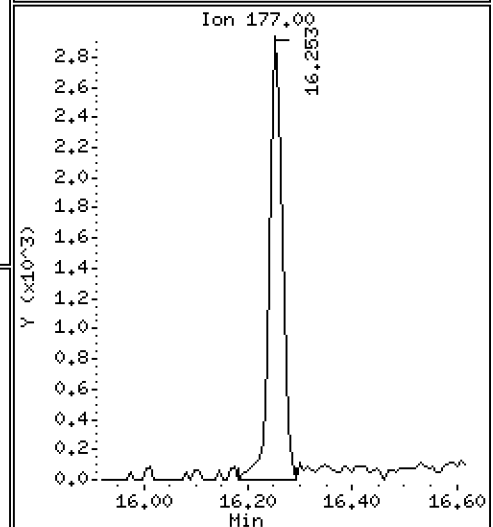
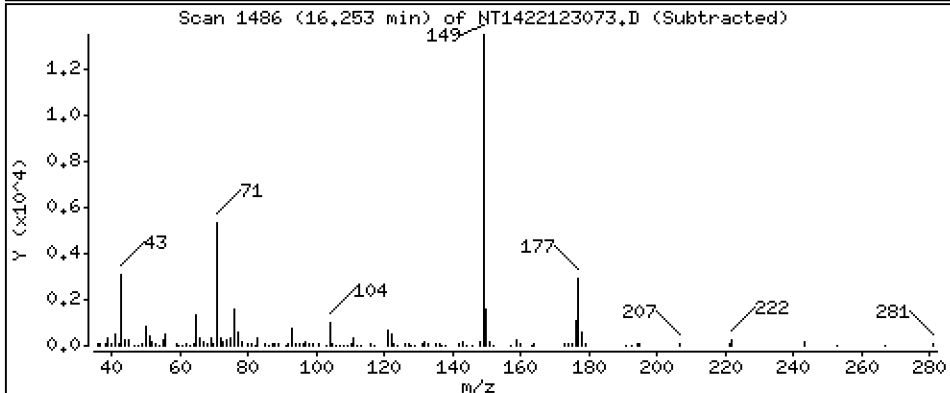
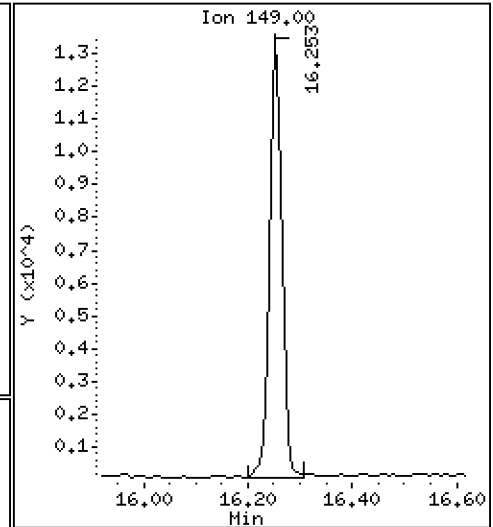
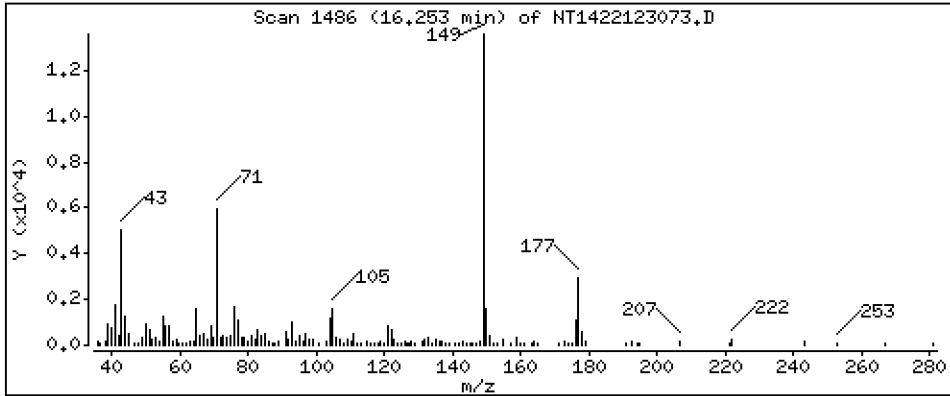
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,4059 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

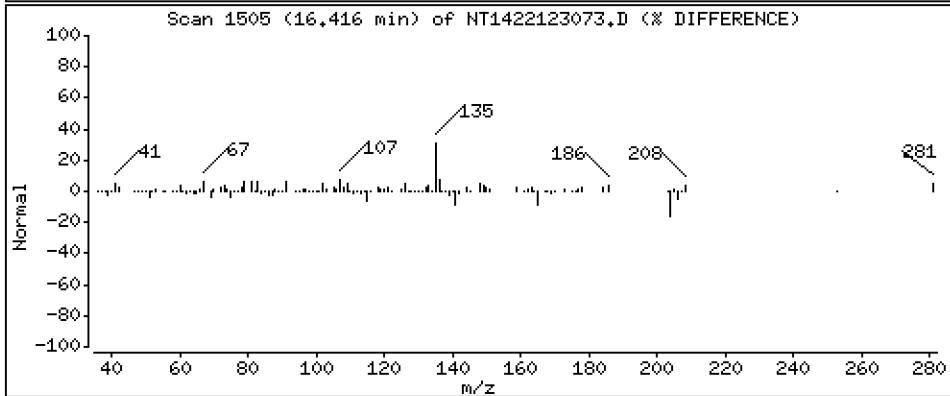
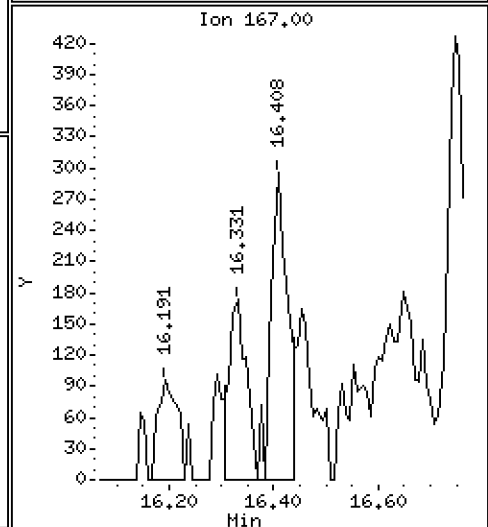
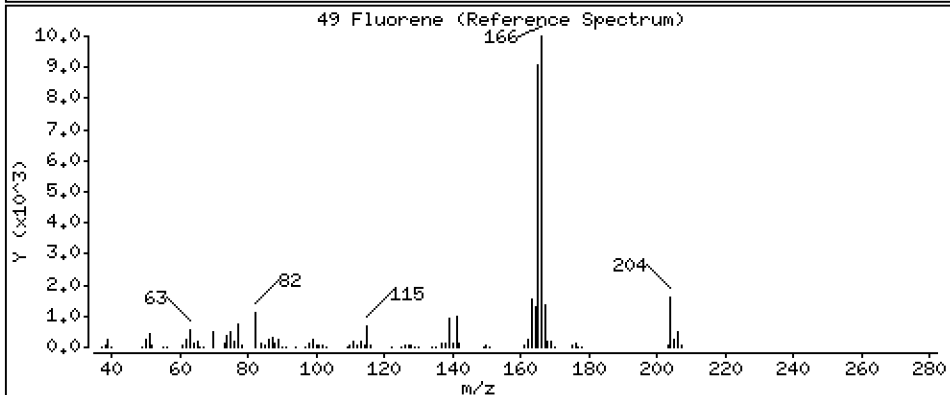
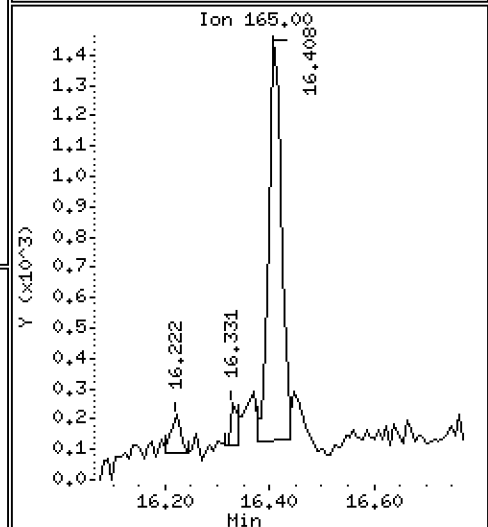
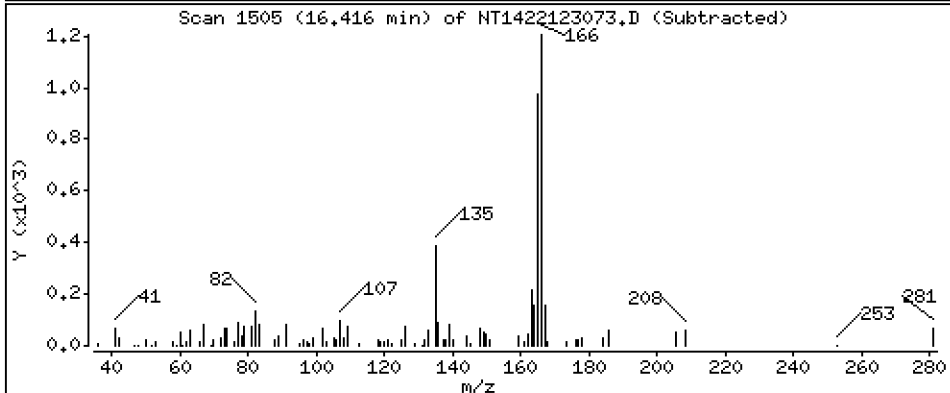
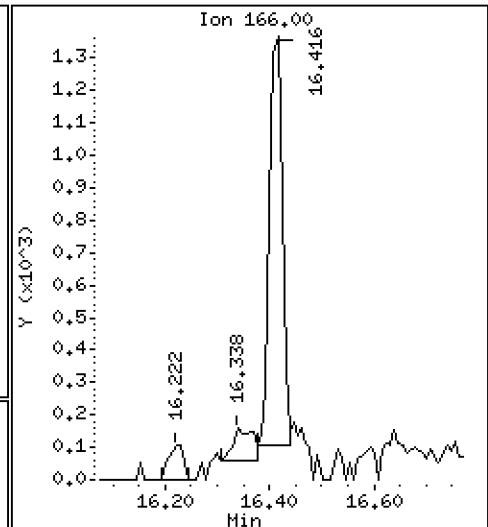
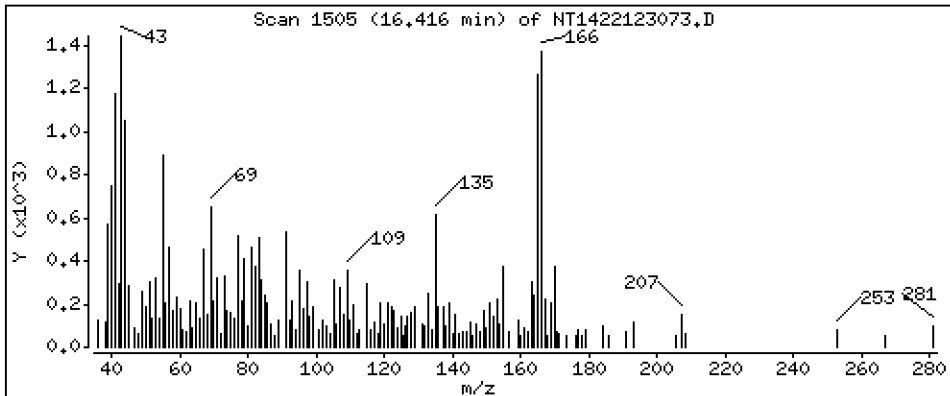
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 0.03000 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

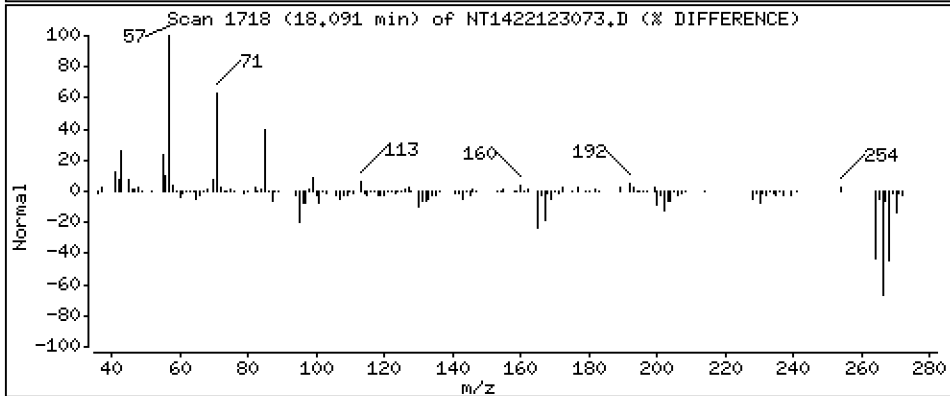
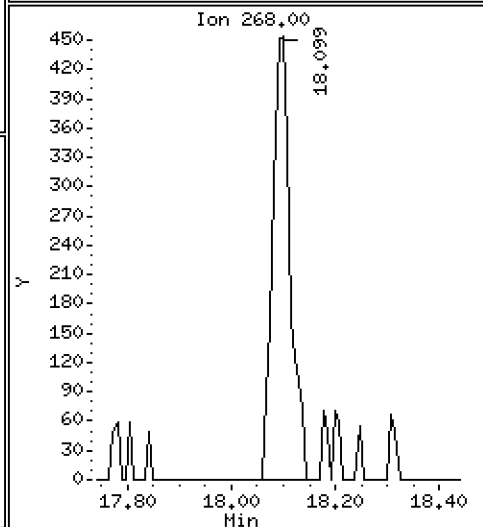
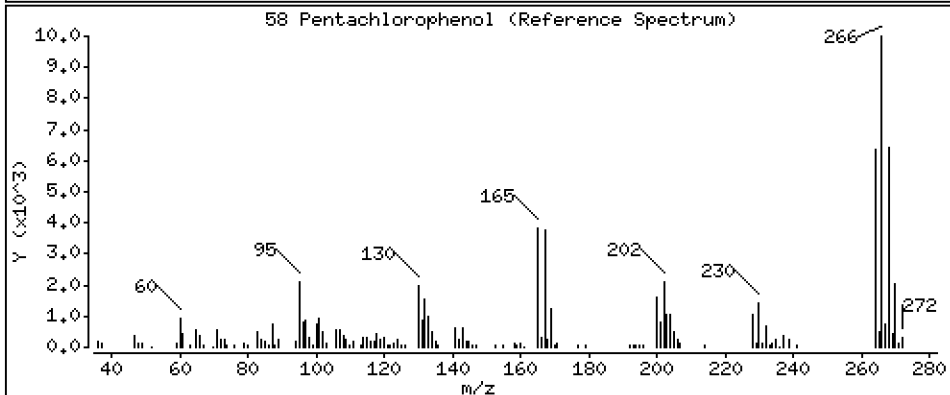
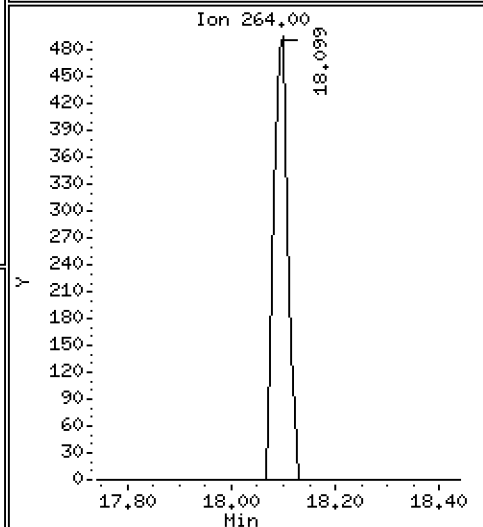
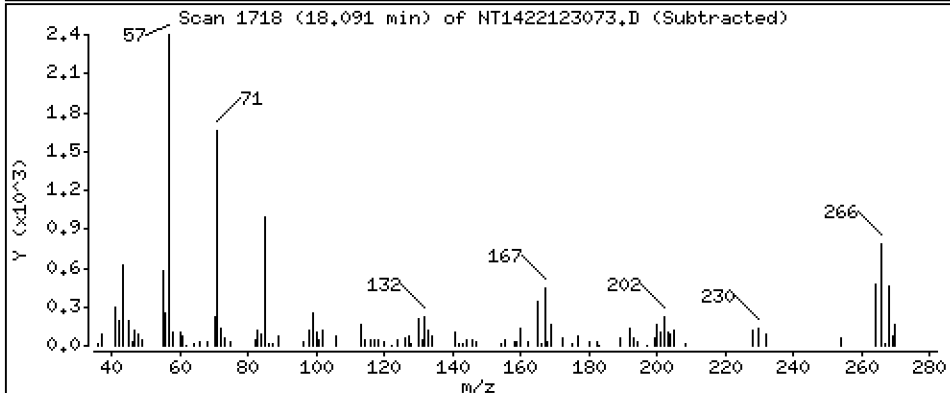
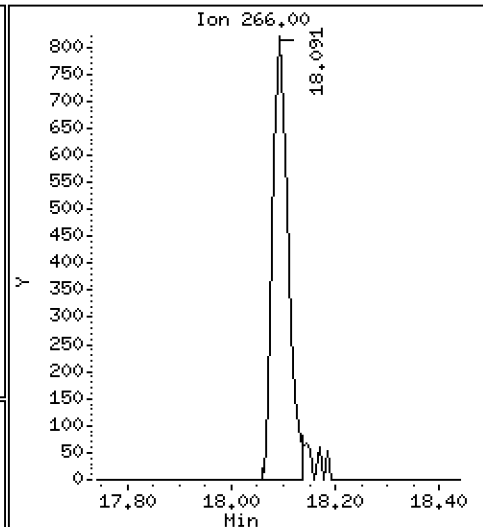
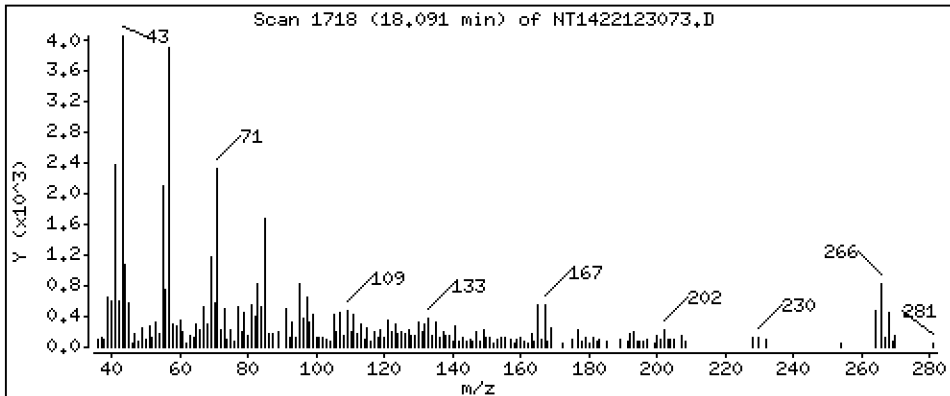
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1959 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

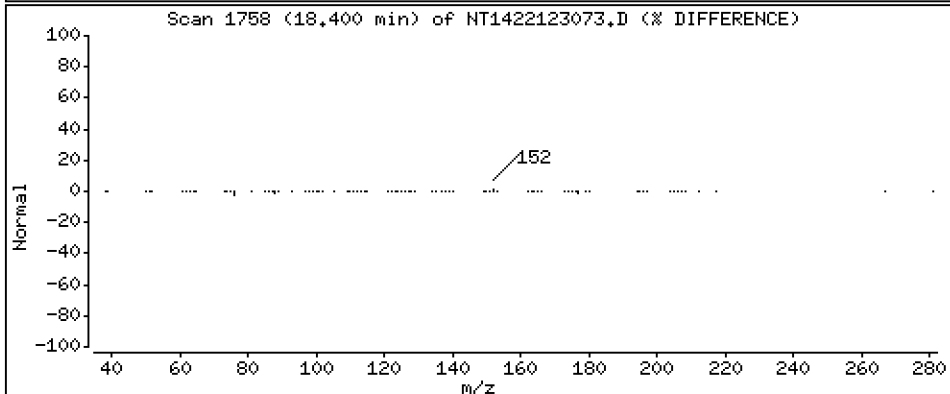
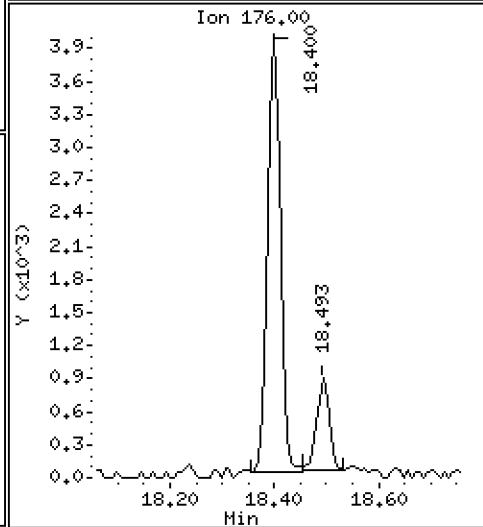
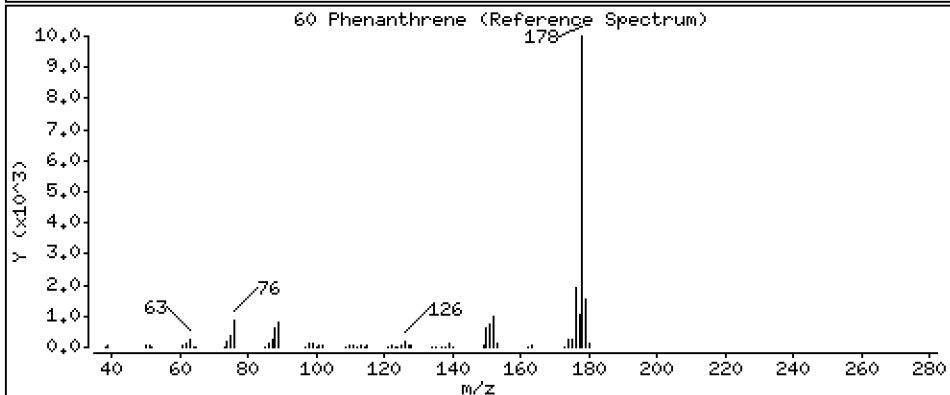
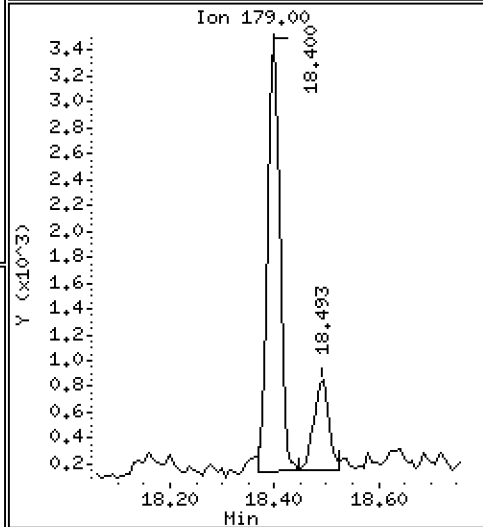
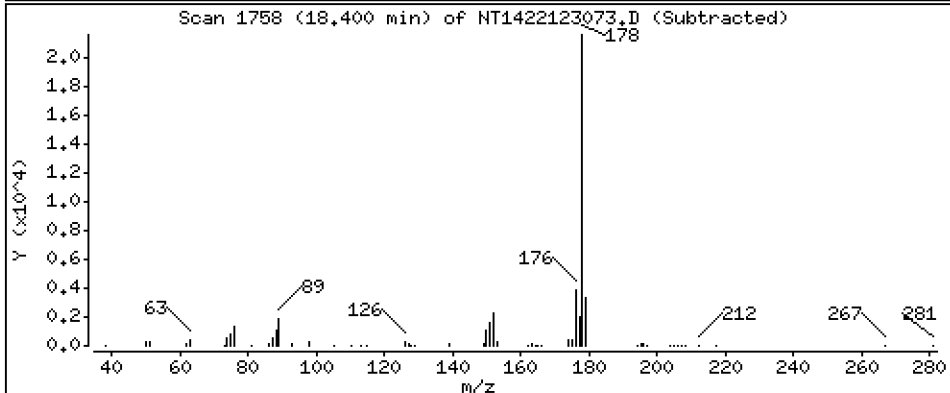
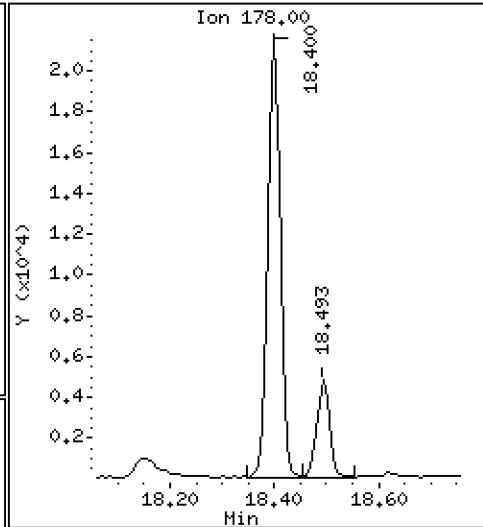
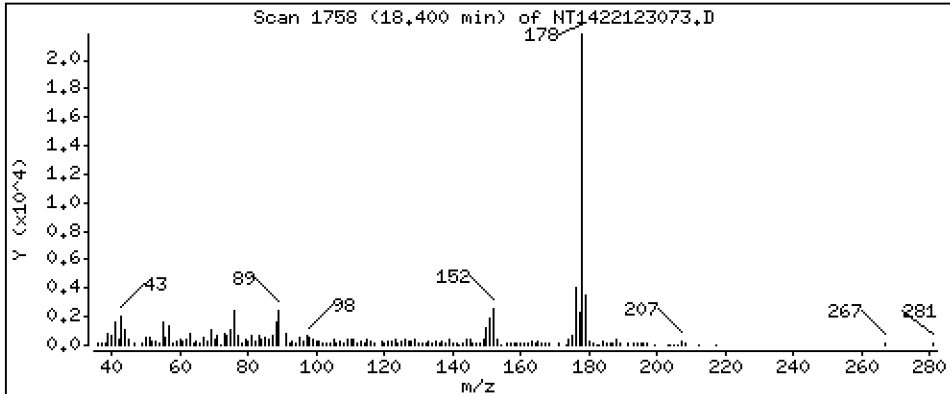
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,4740 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

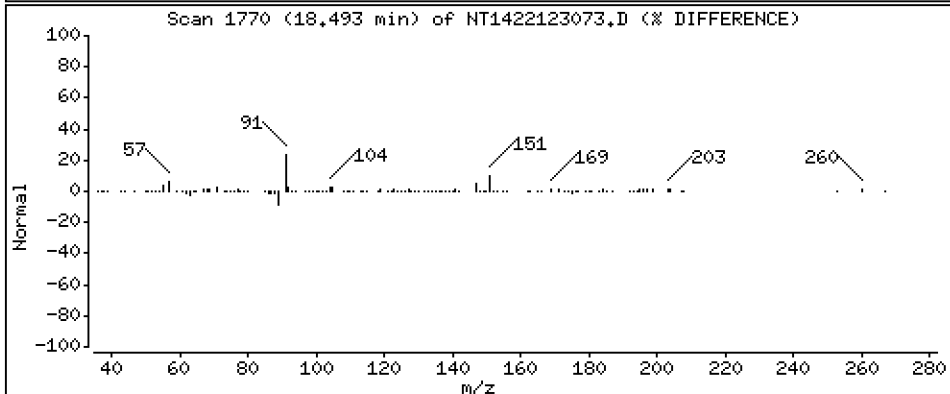
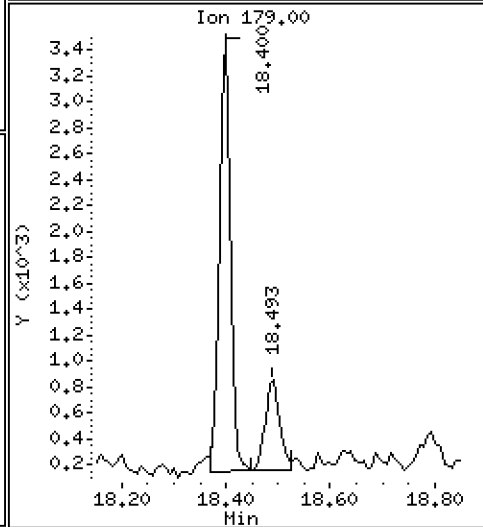
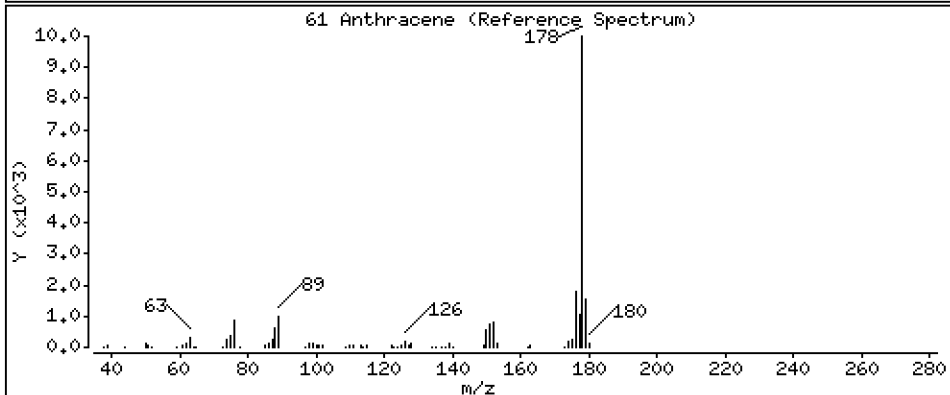
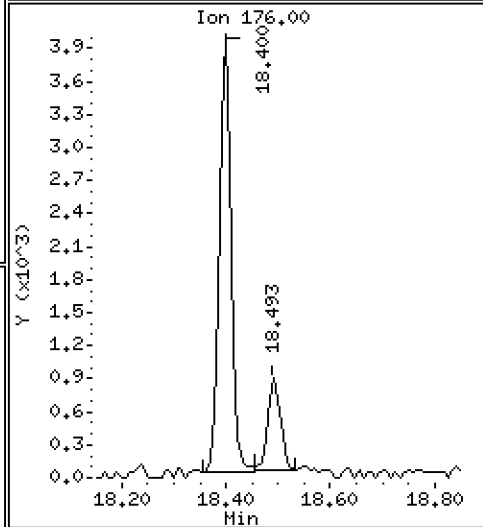
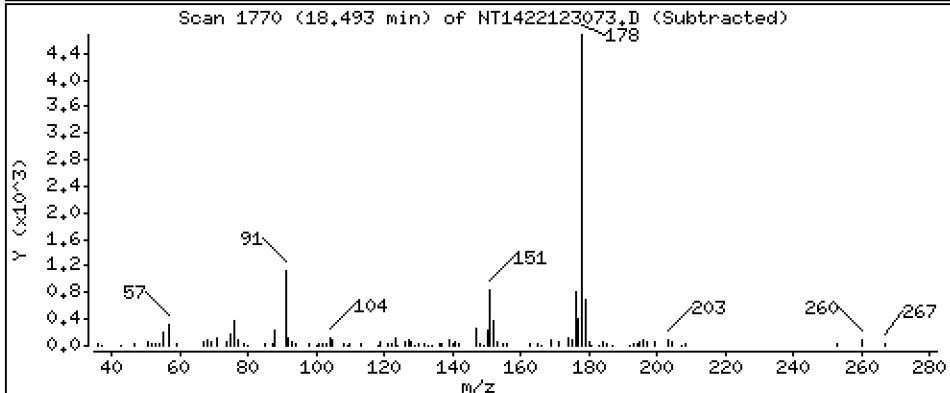
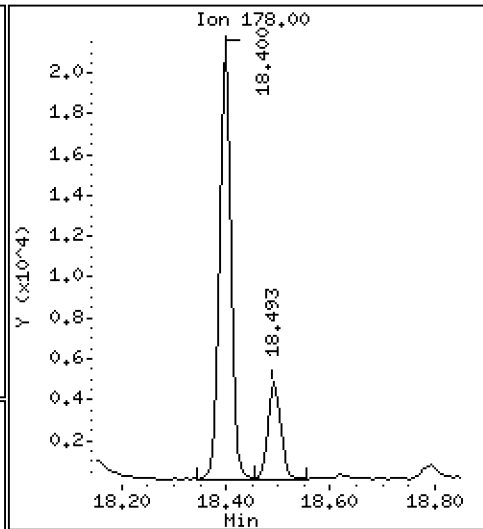
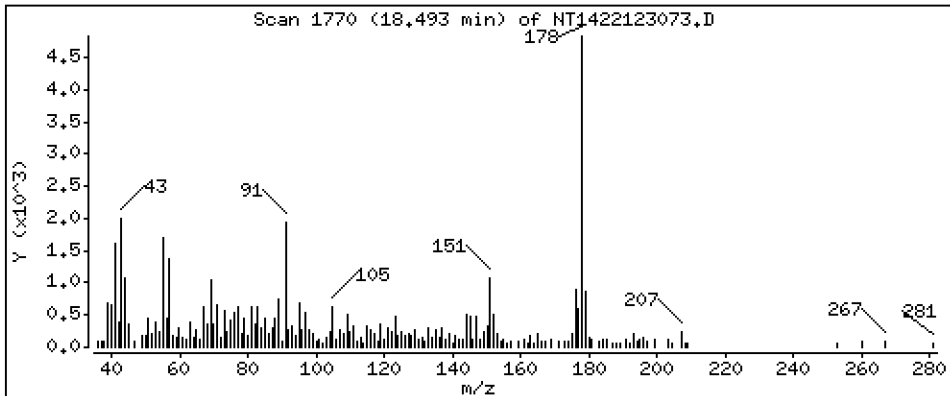
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,1162 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

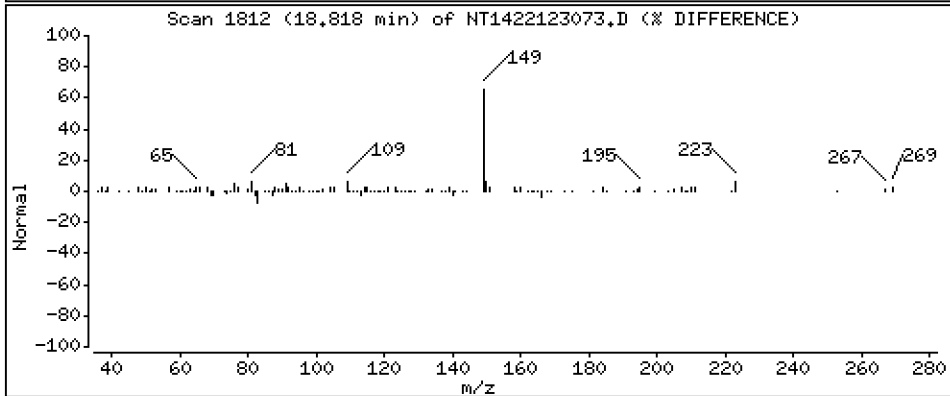
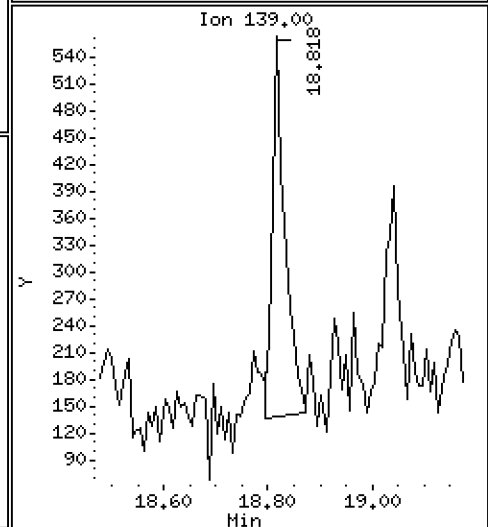
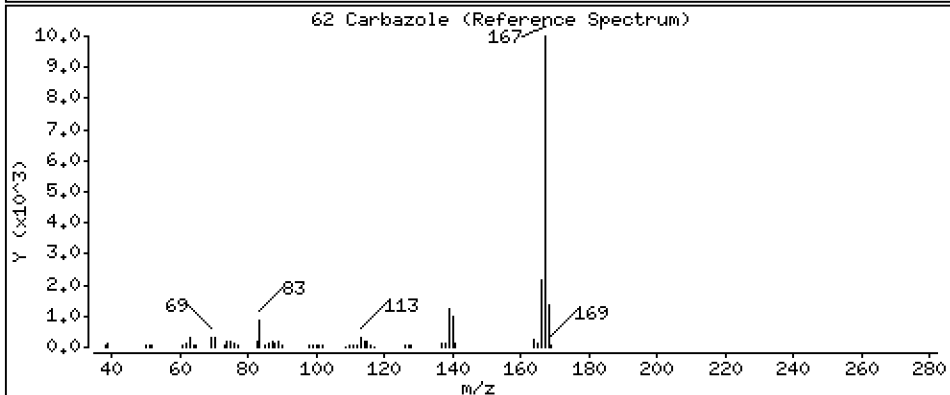
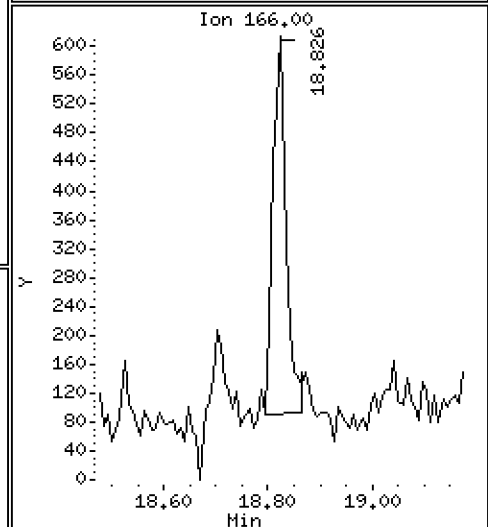
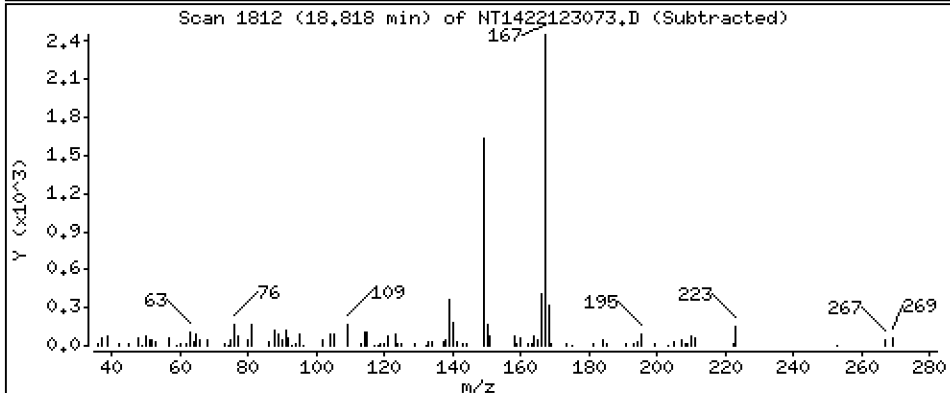
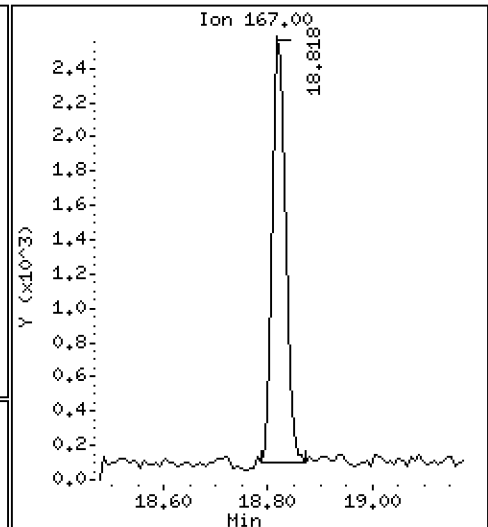
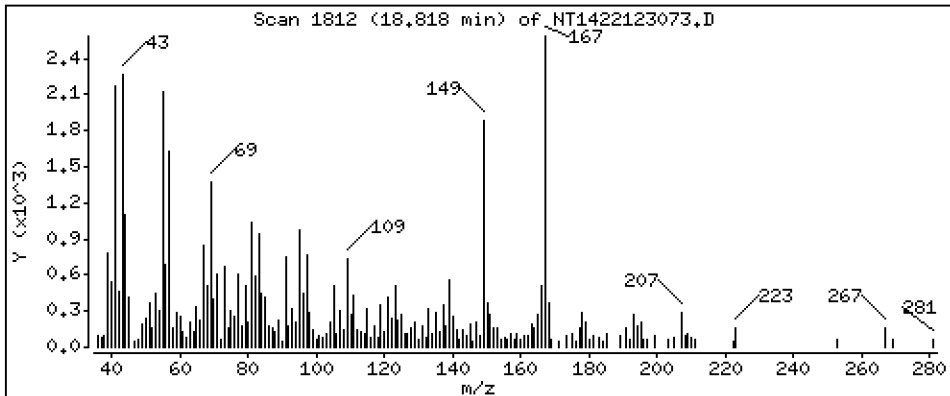
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,06493 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

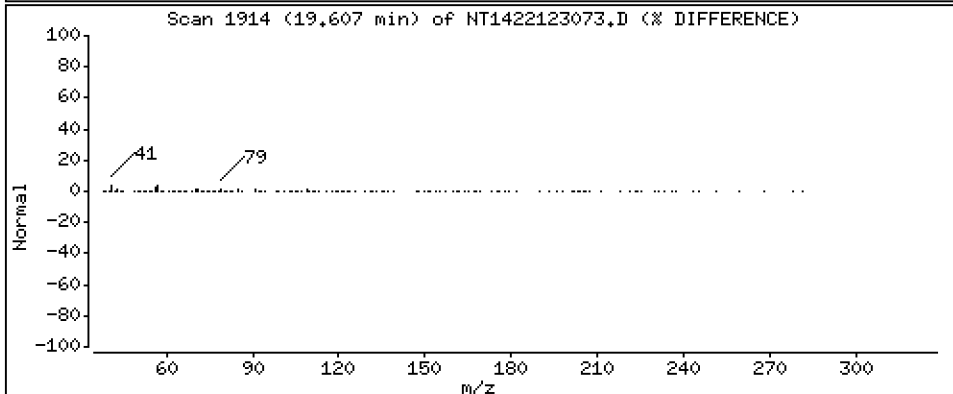
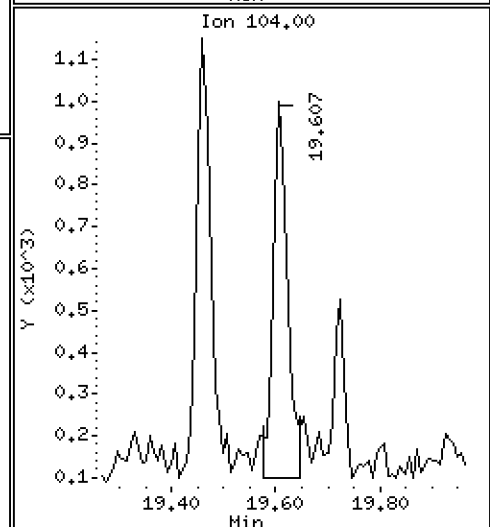
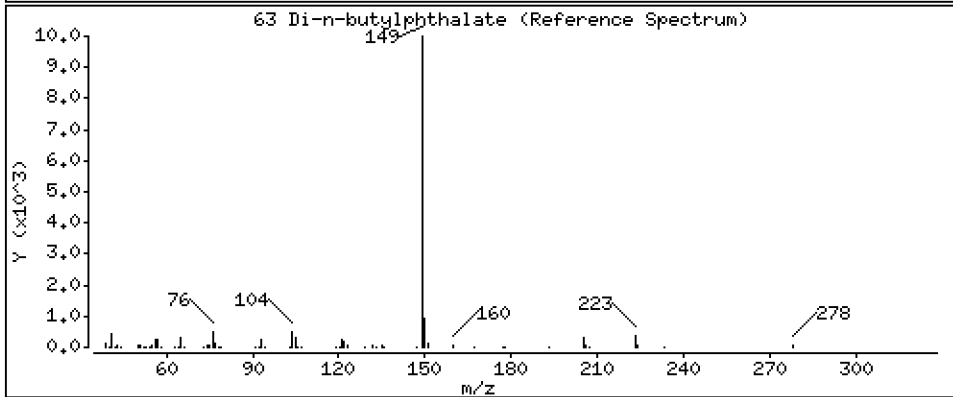
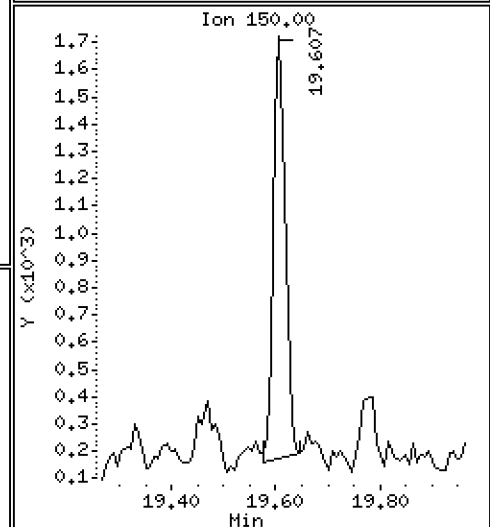
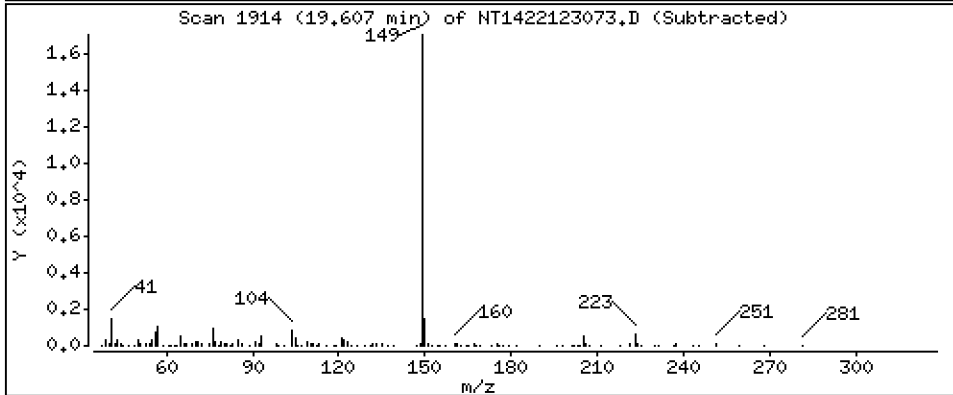
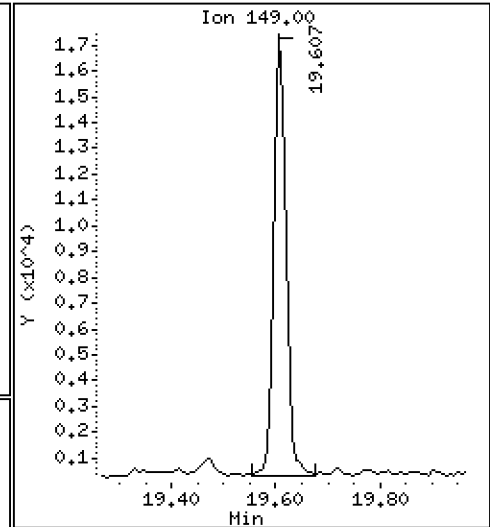
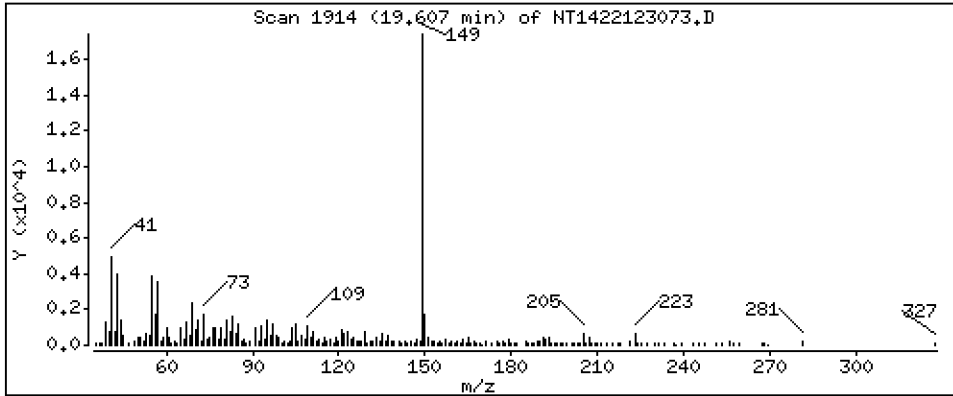
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.3656 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

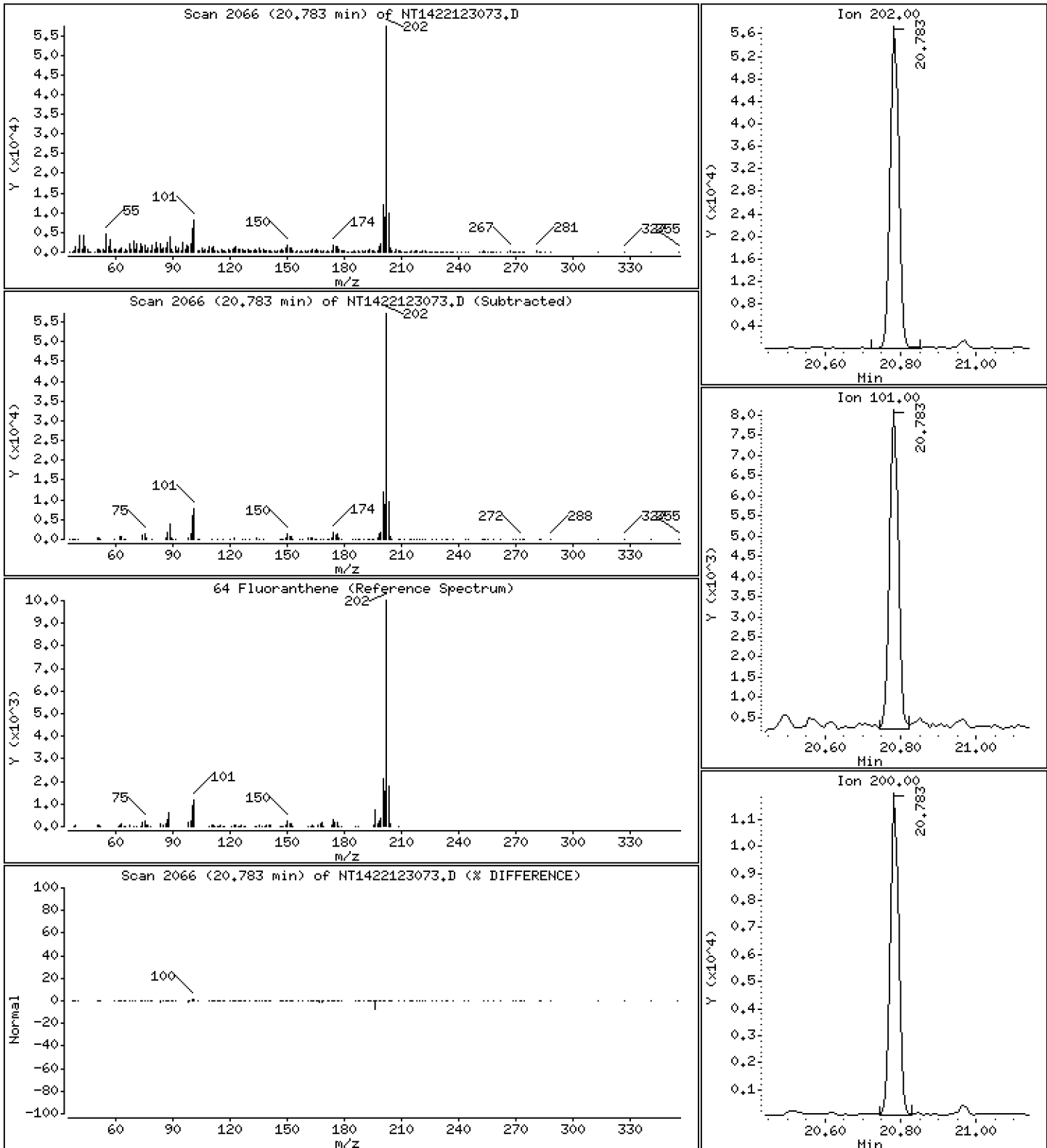
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 1,272 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

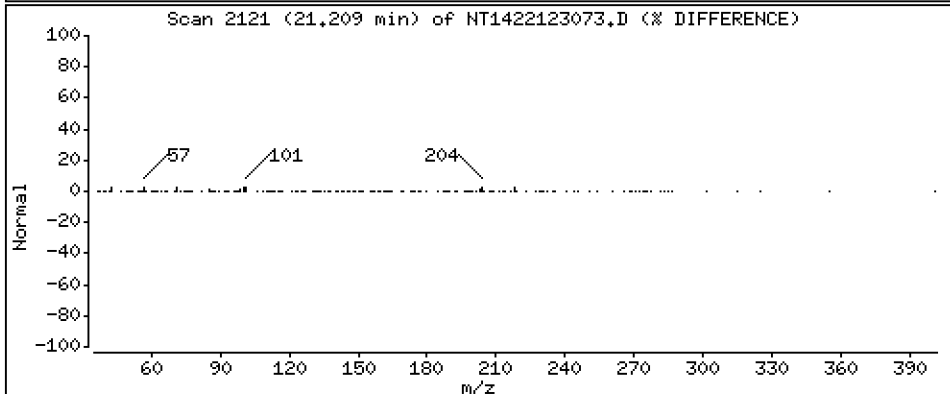
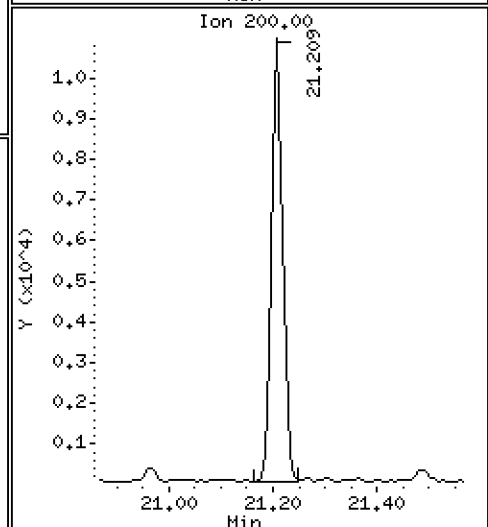
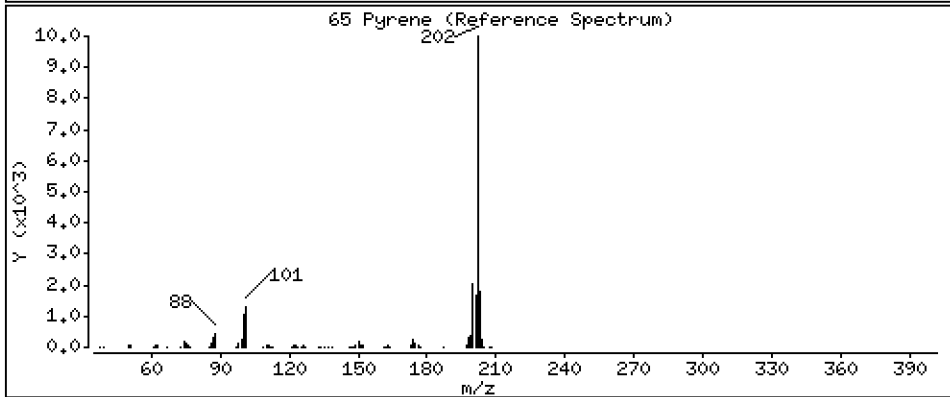
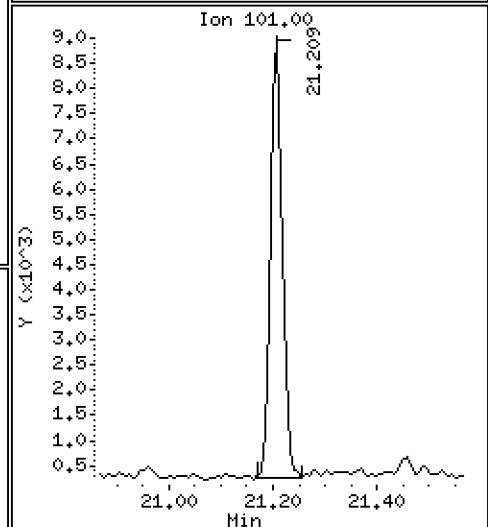
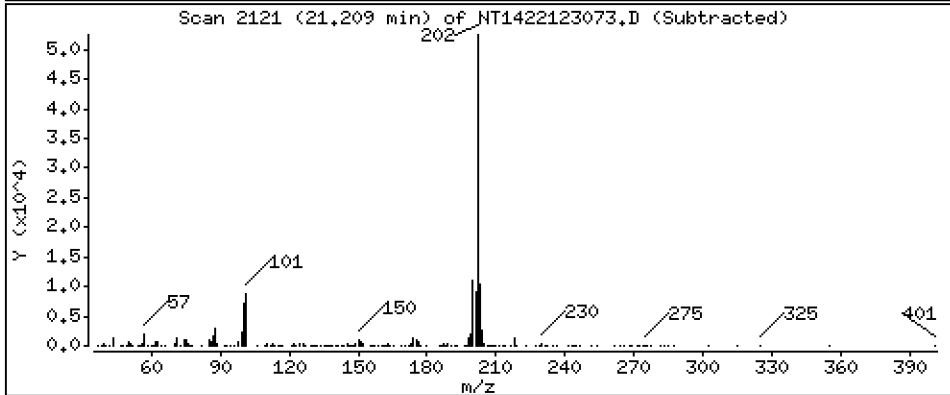
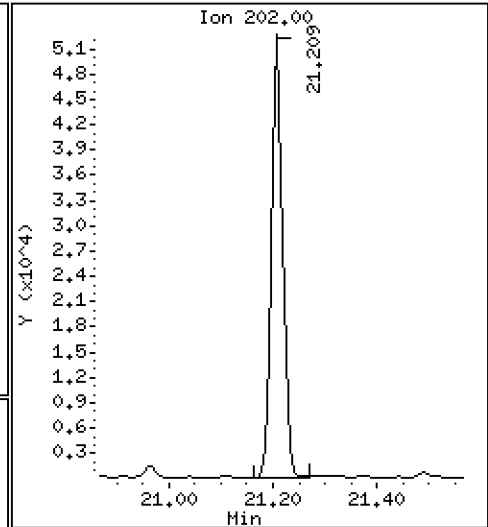
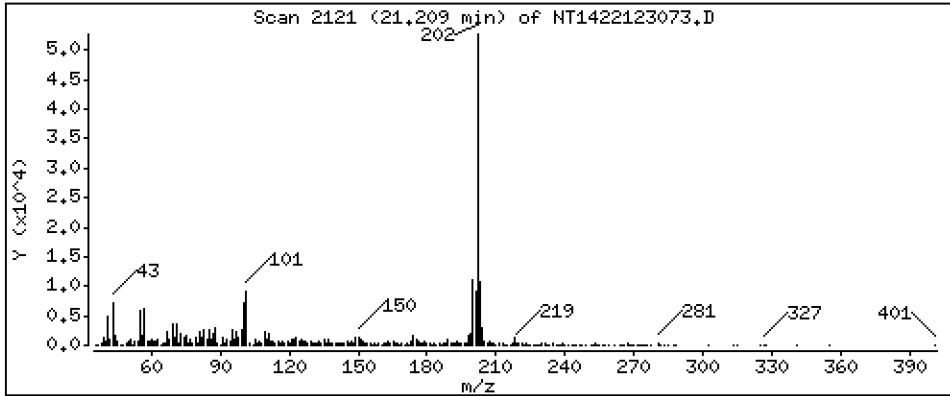
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

65 Pyrene

Concentration: 1.081 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

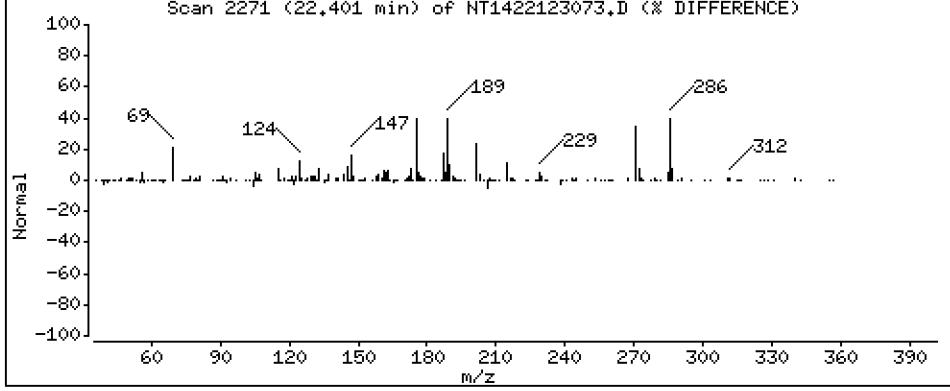
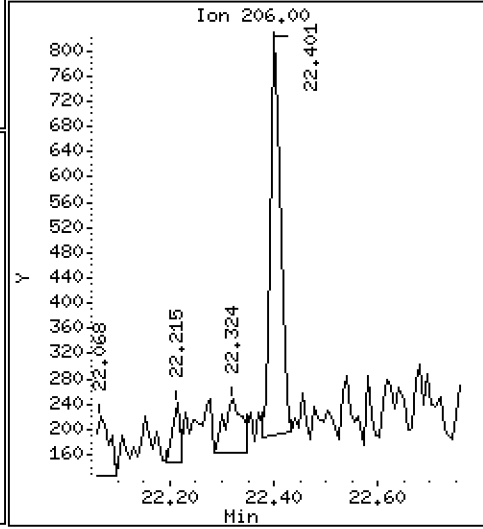
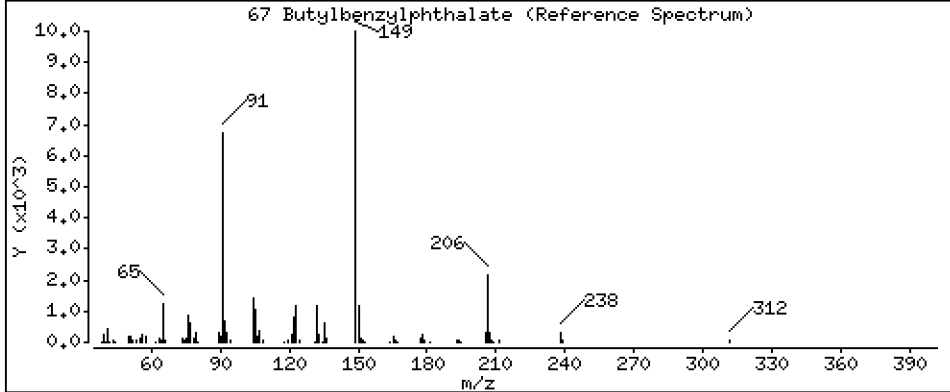
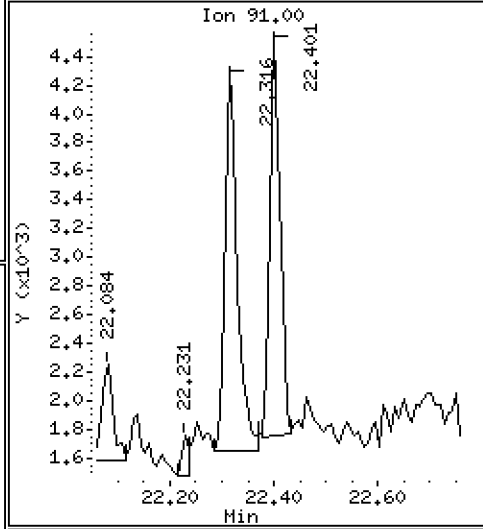
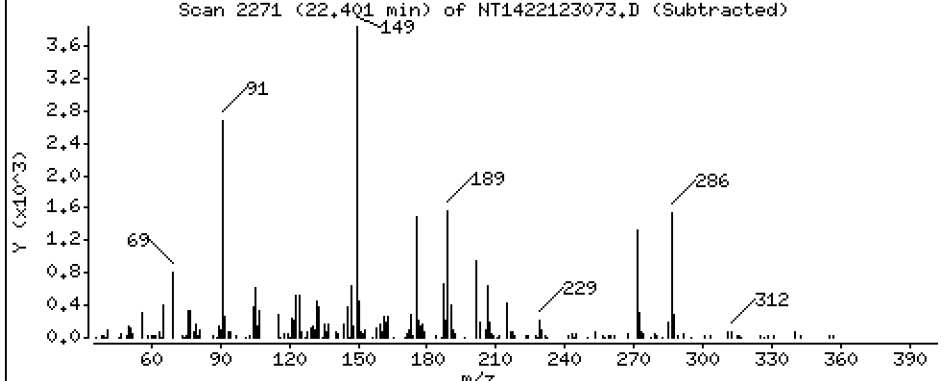
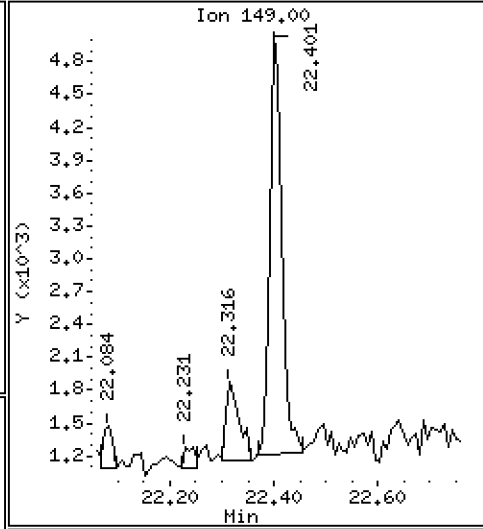
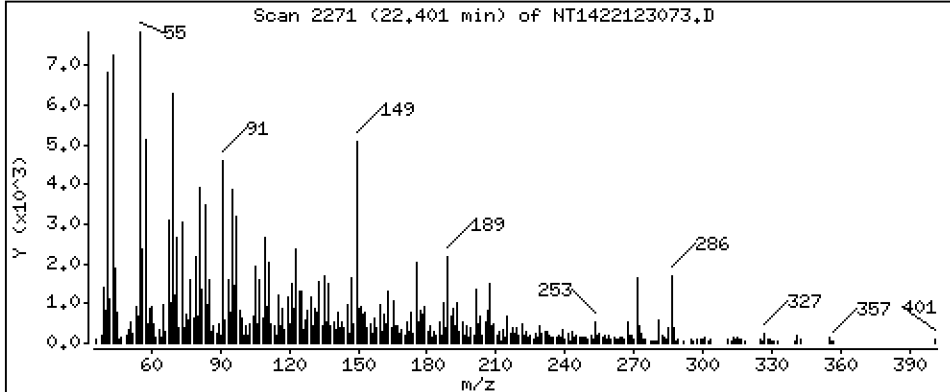
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

67 Butylbenzylphthalate

Concentration: 0.2237 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

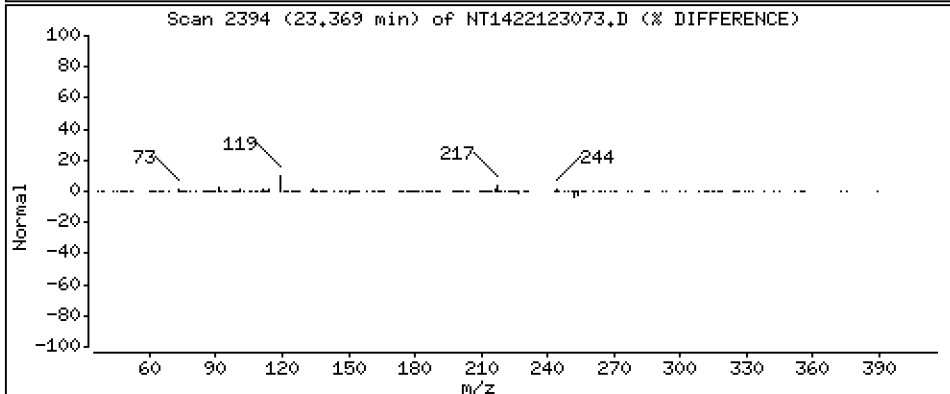
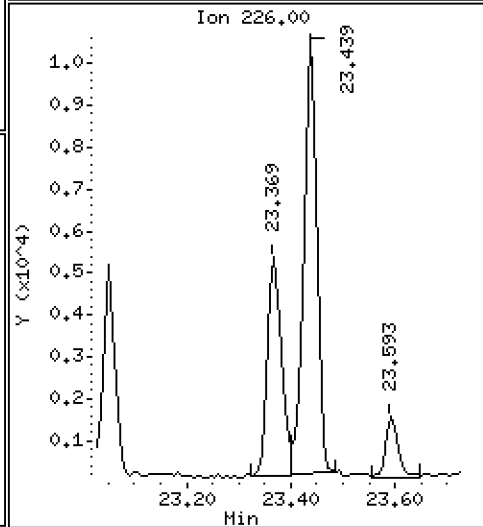
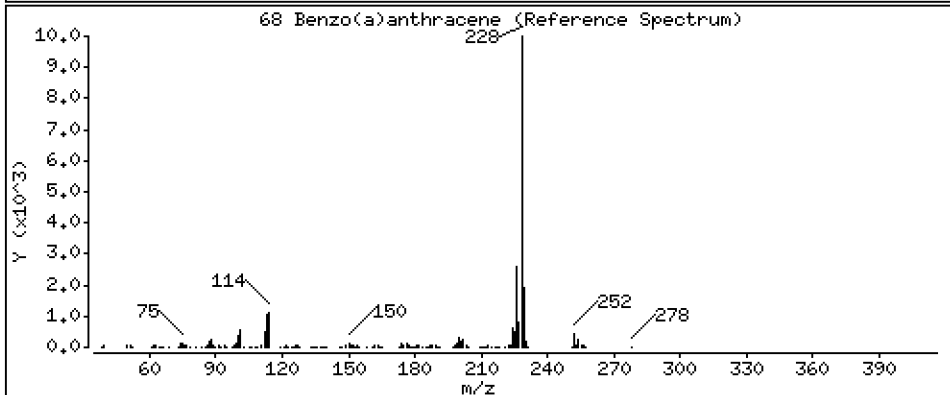
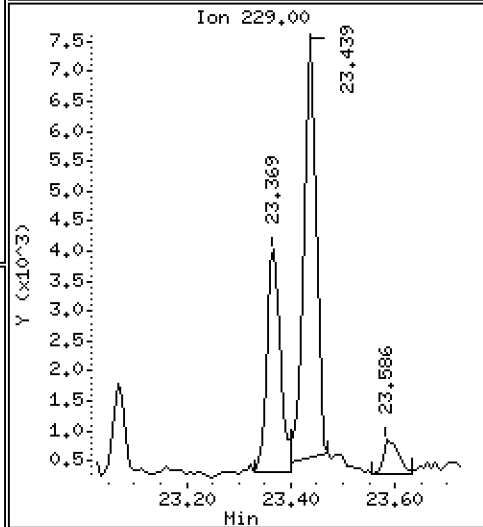
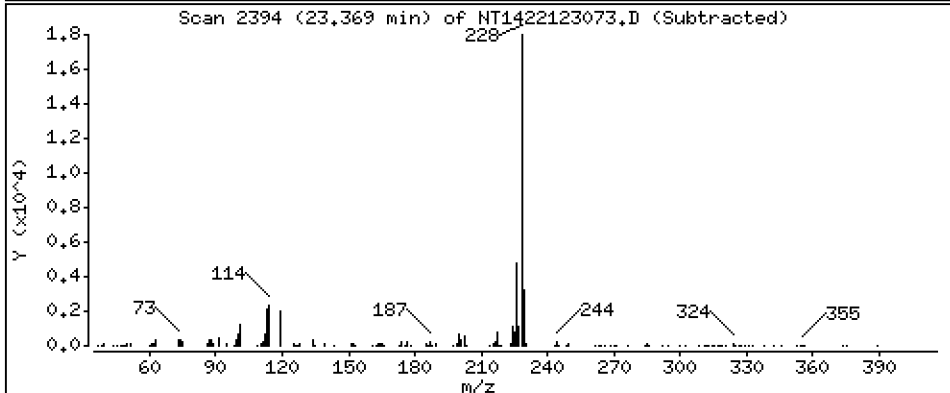
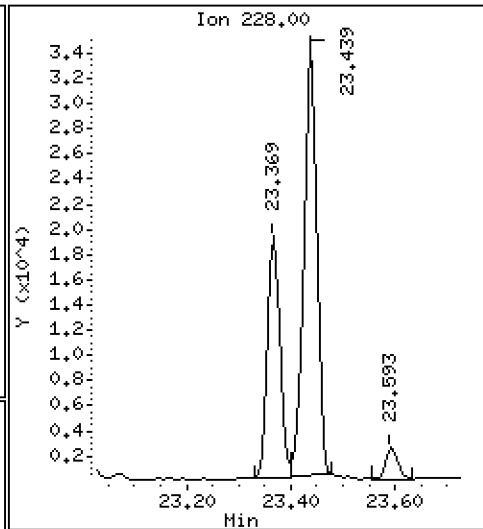
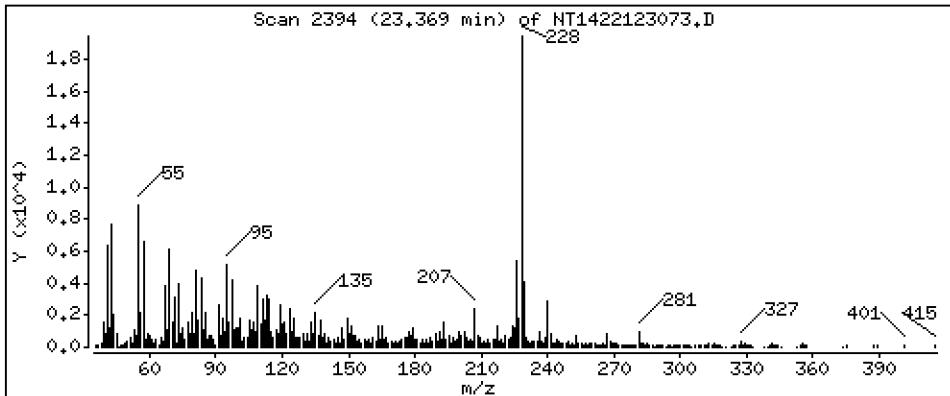
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,4864 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

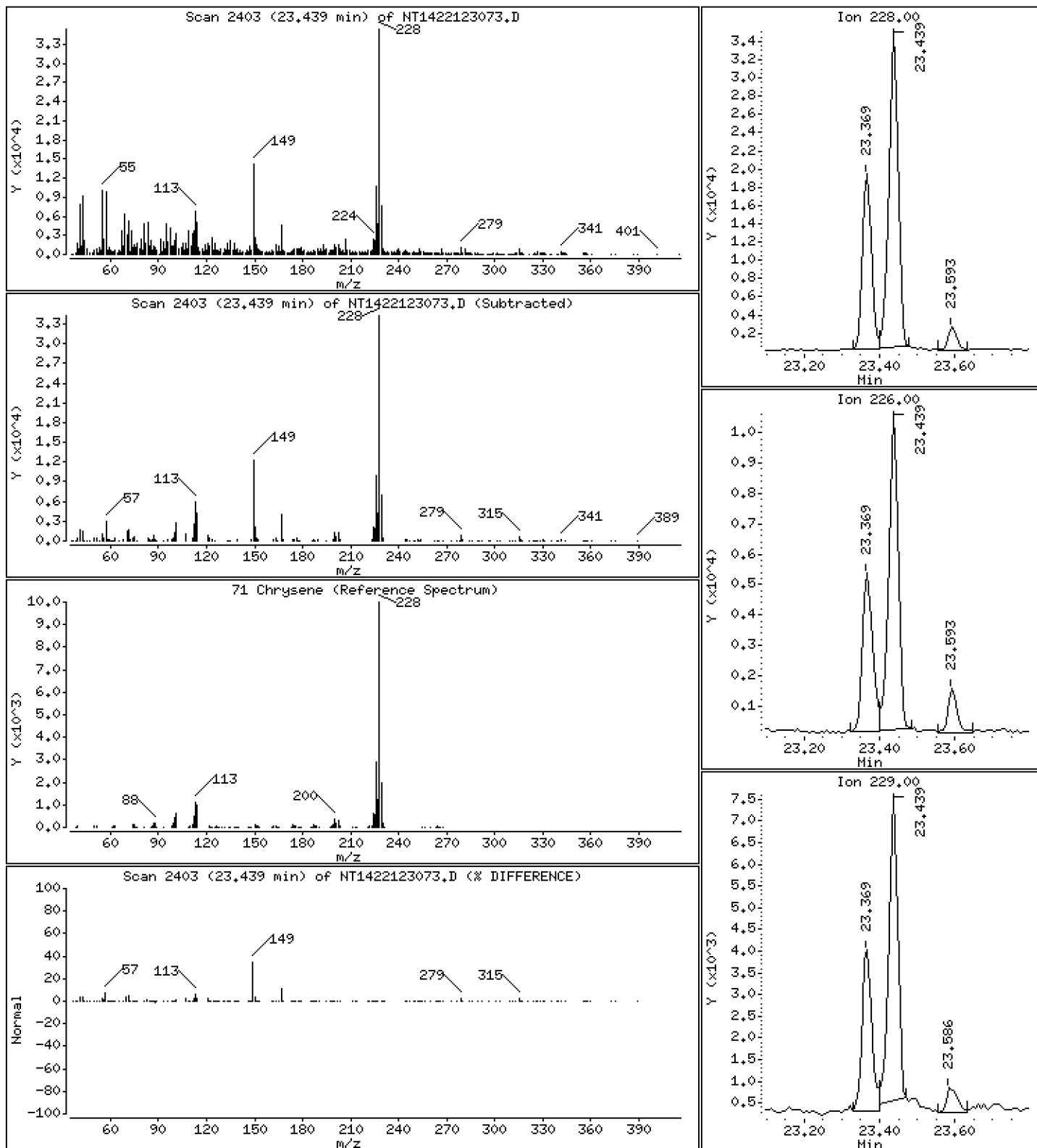
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,9726 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

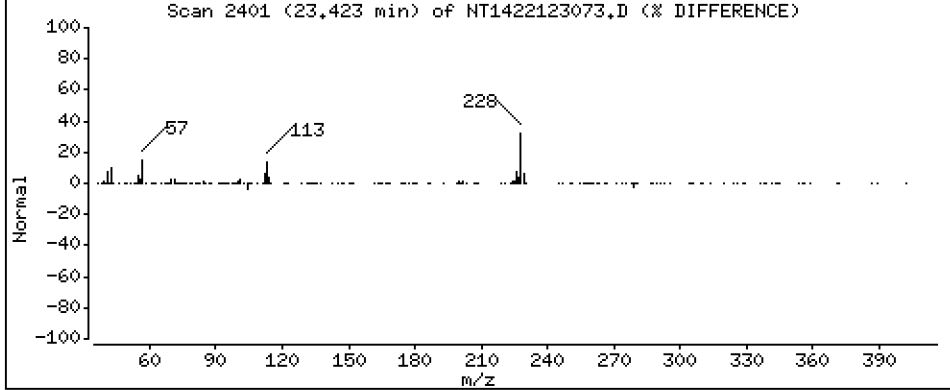
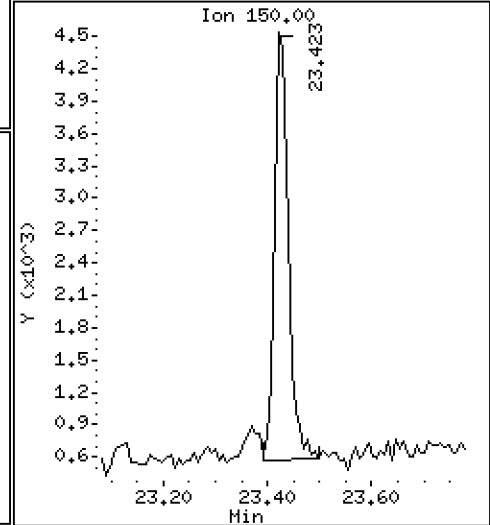
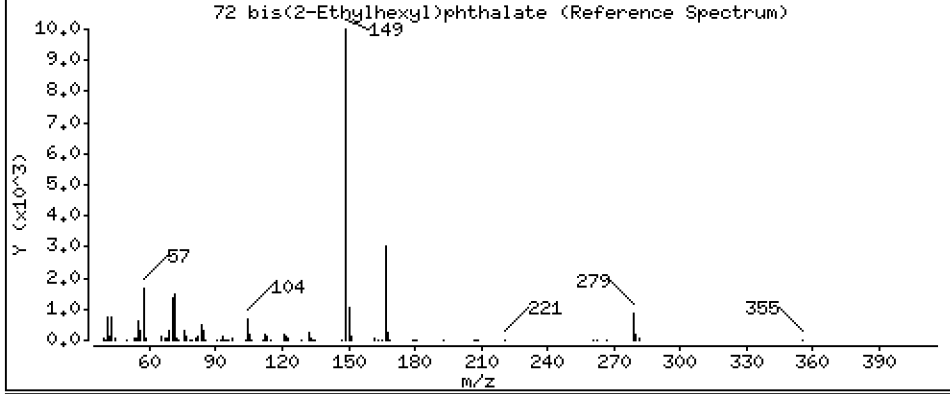
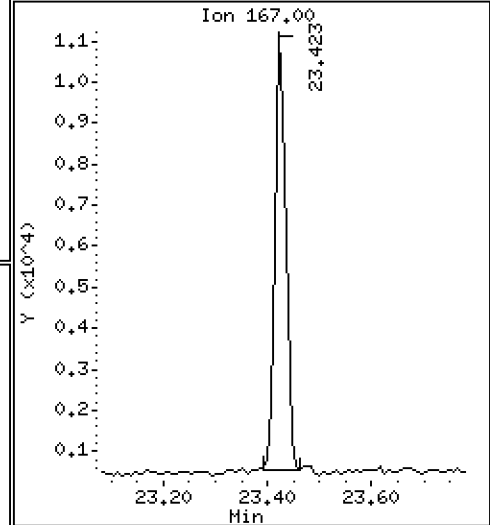
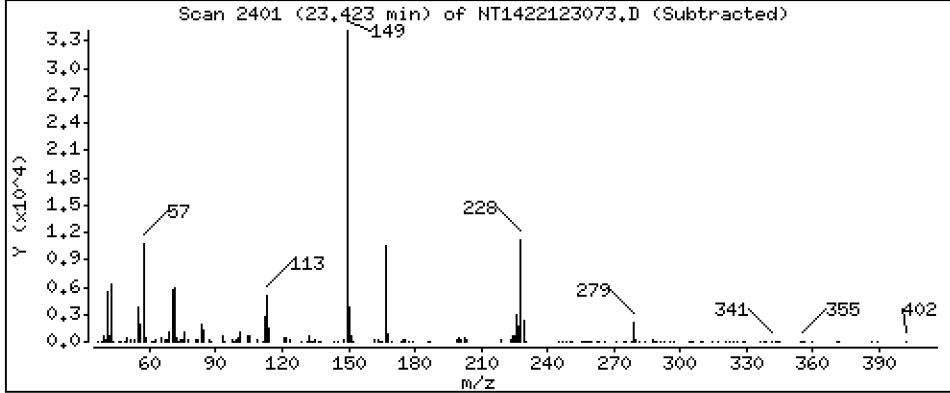
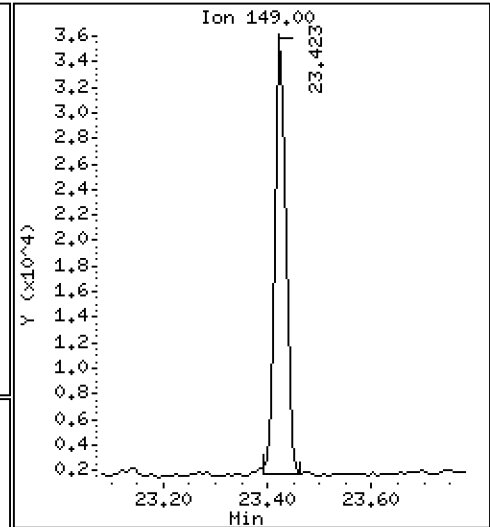
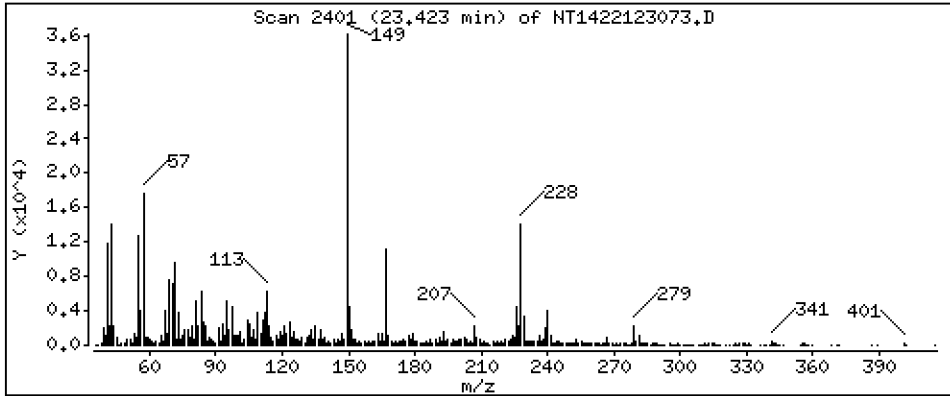
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 1,189 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

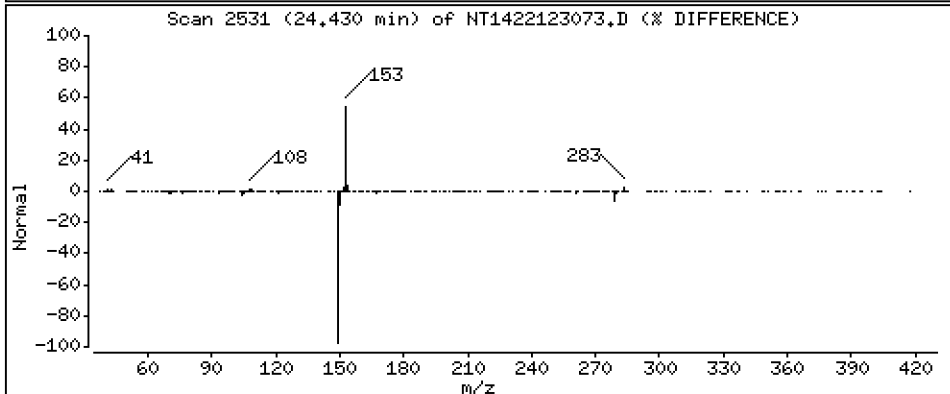
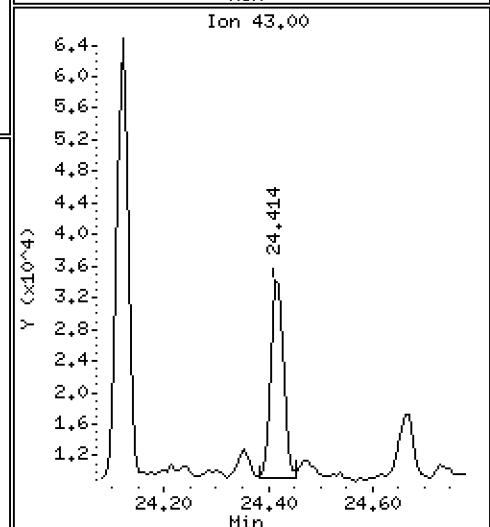
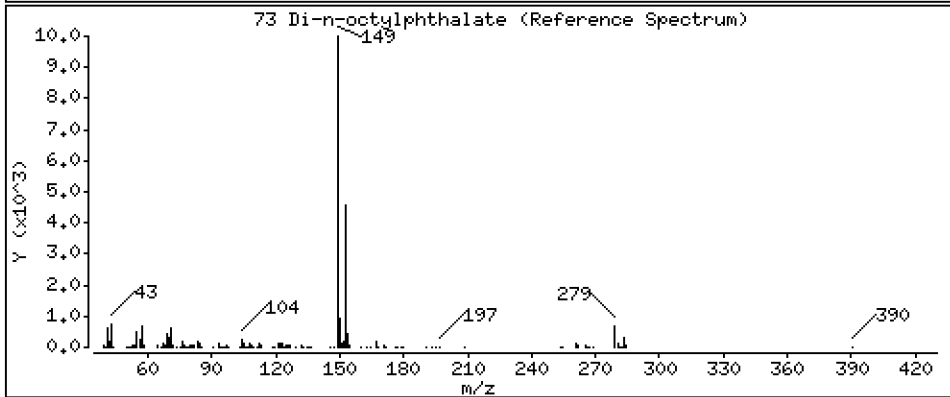
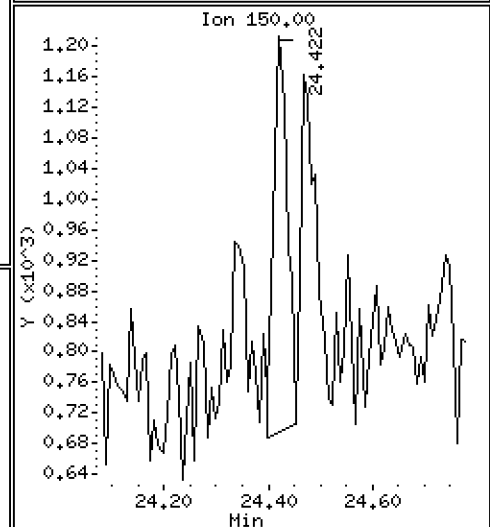
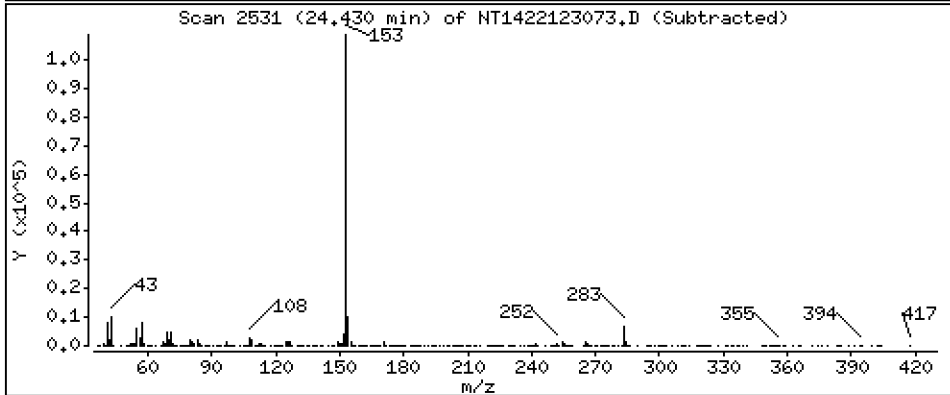
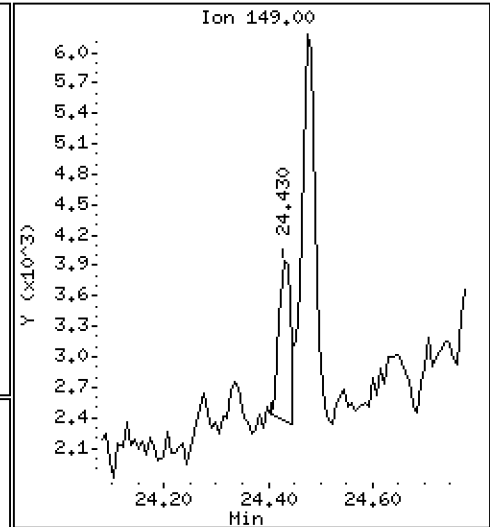
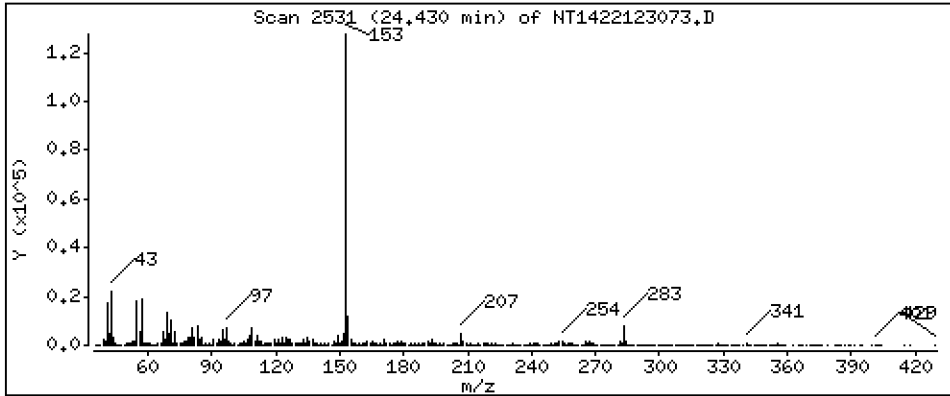
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,02690 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

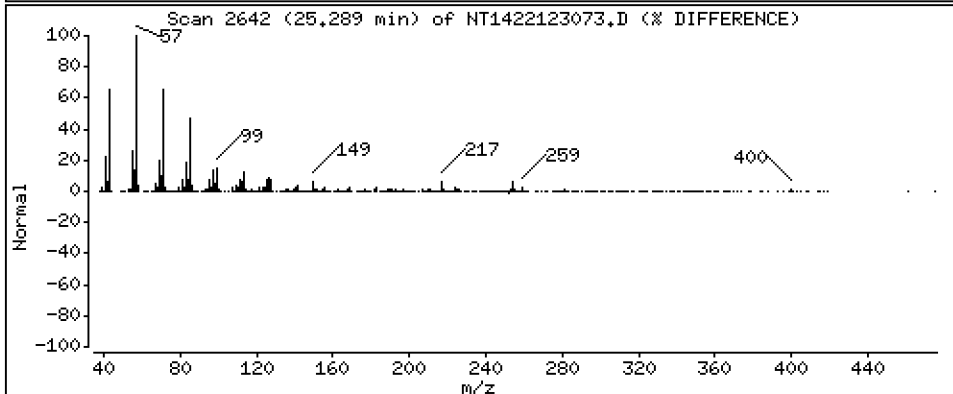
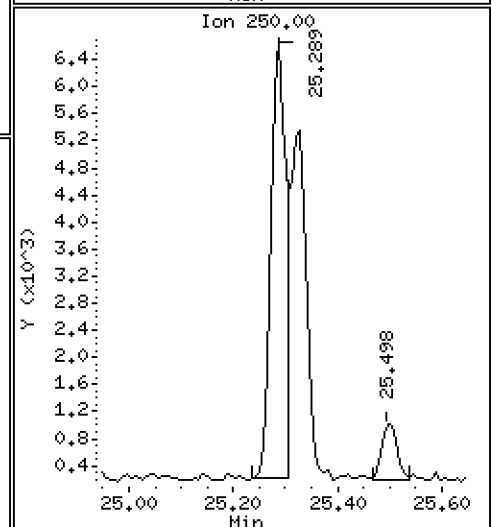
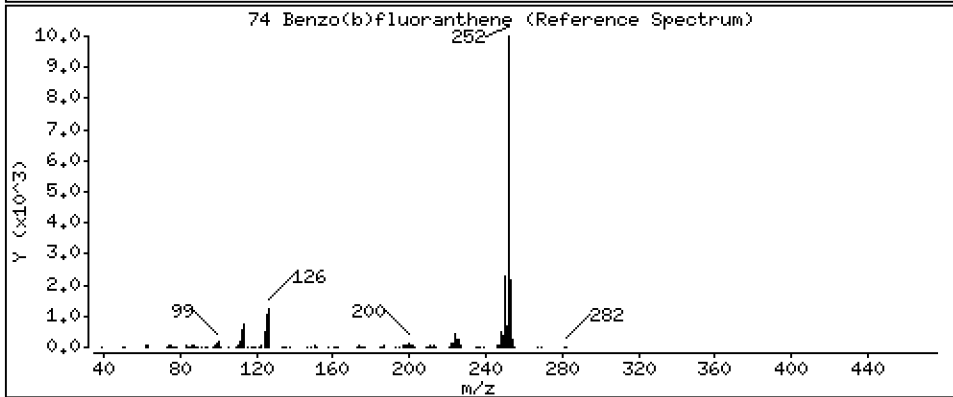
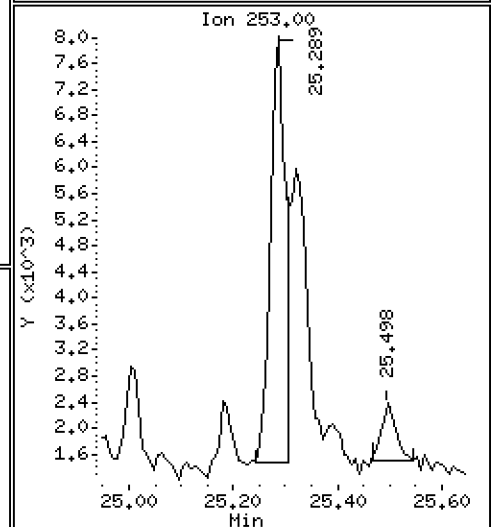
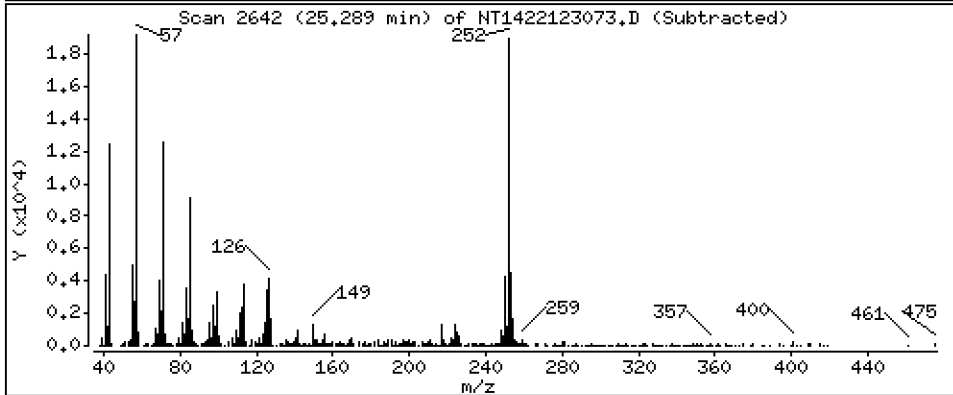
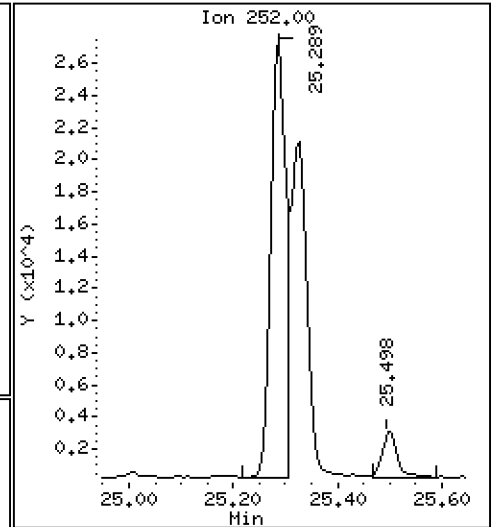
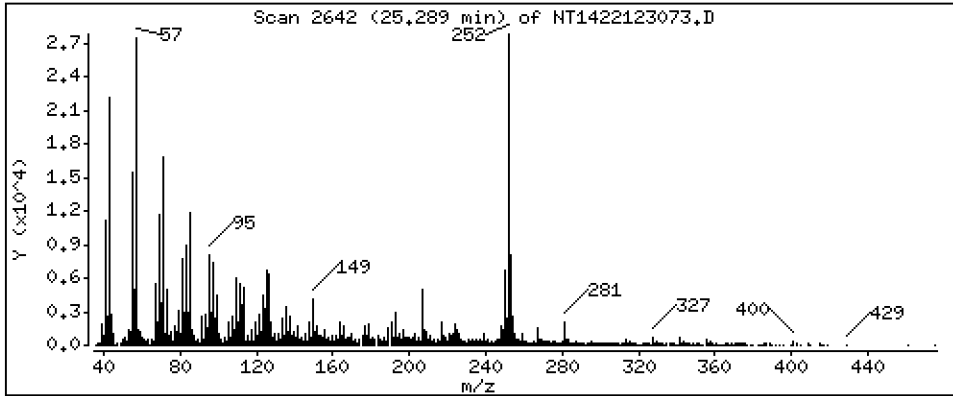
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,9012 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

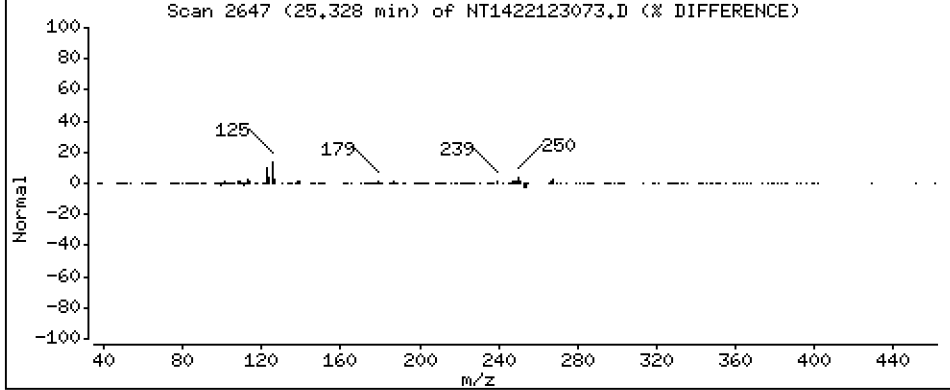
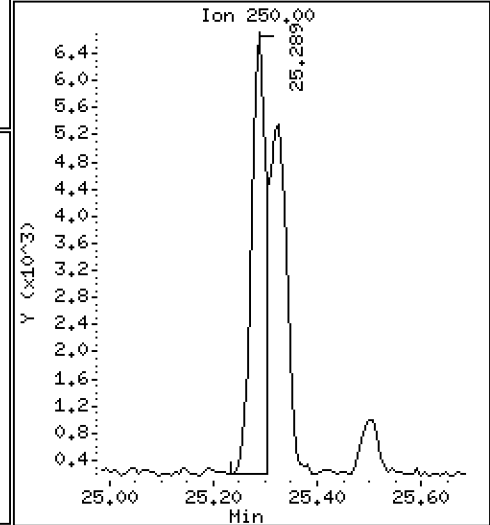
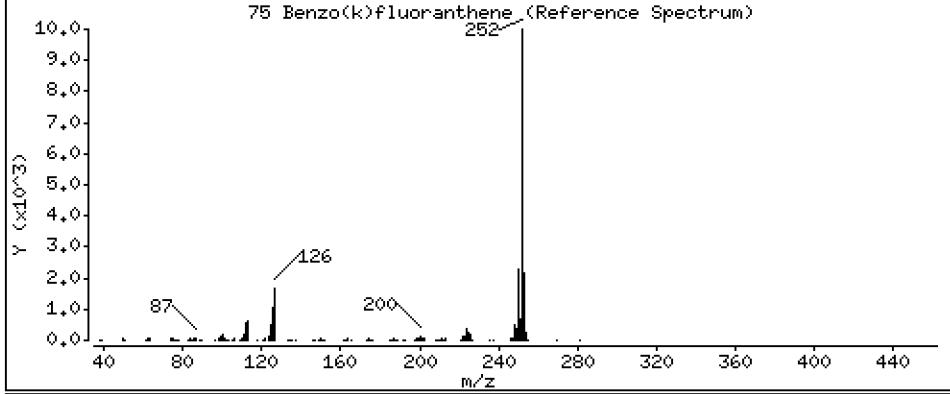
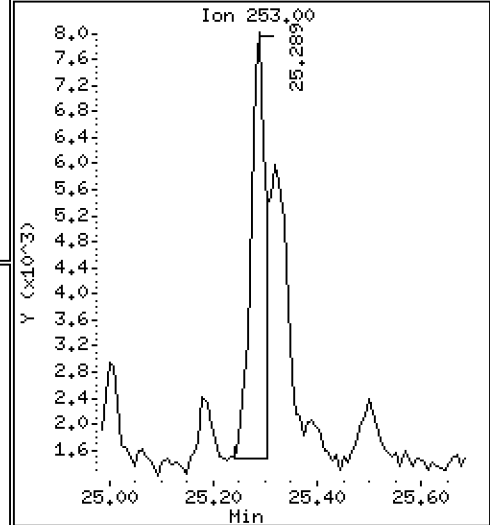
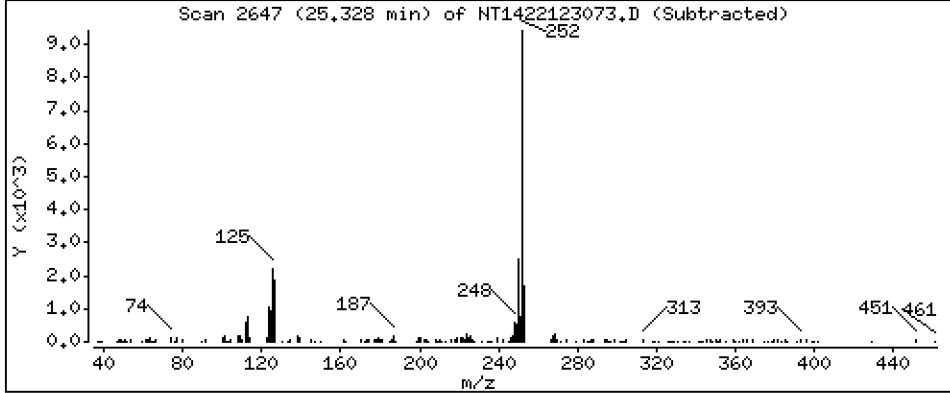
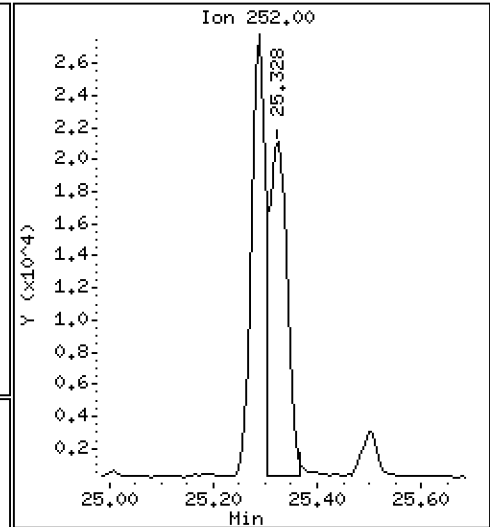
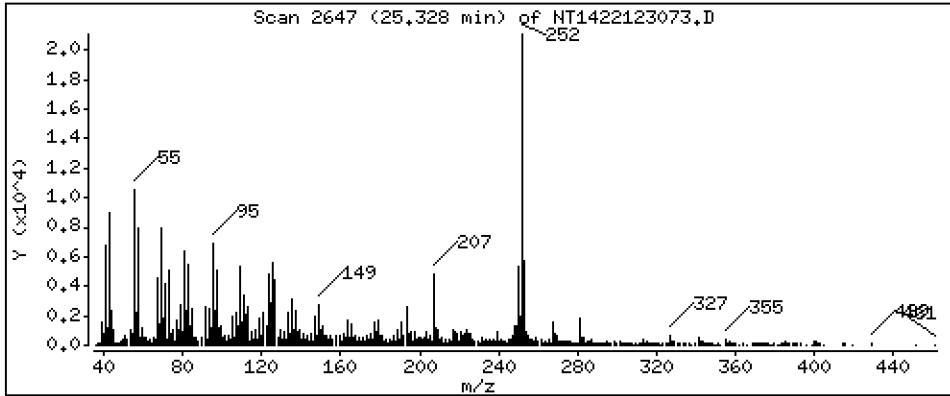
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,8314 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

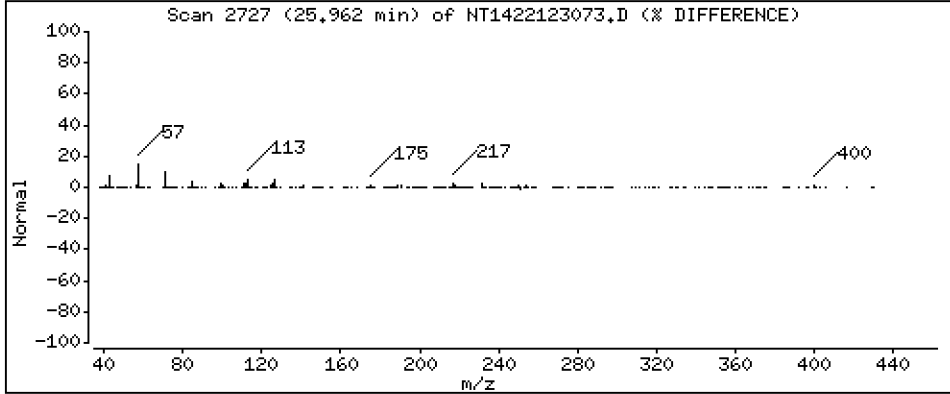
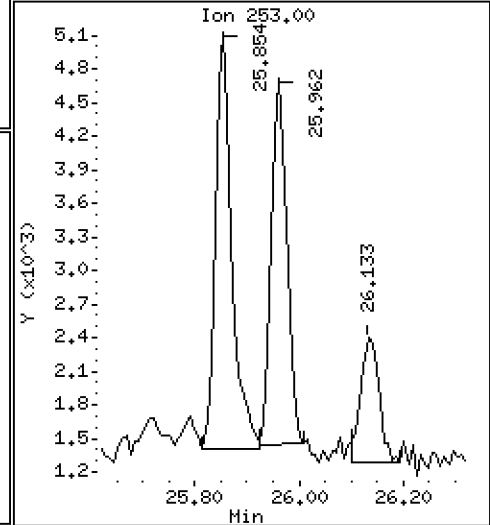
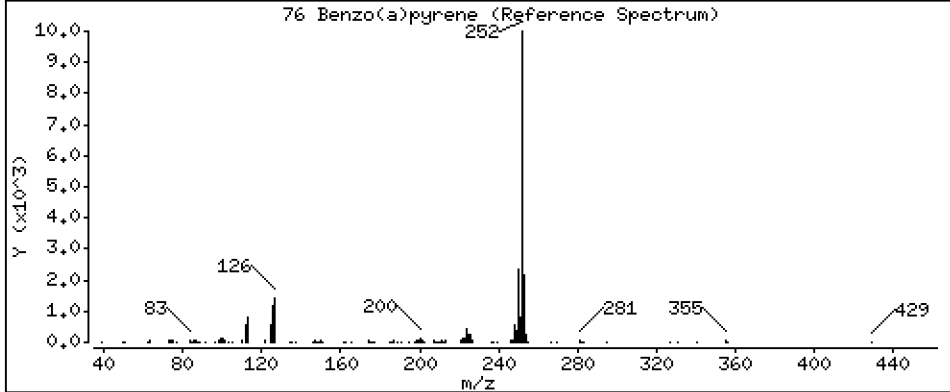
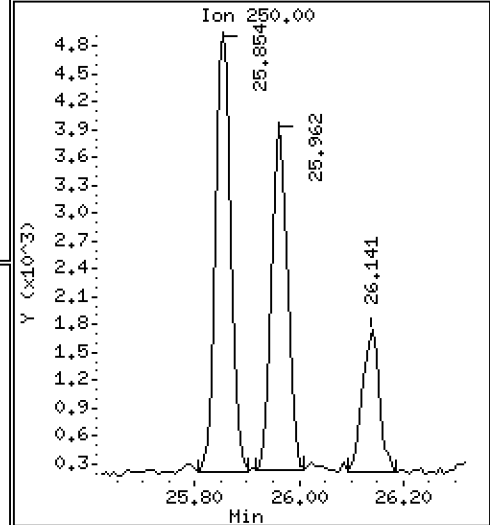
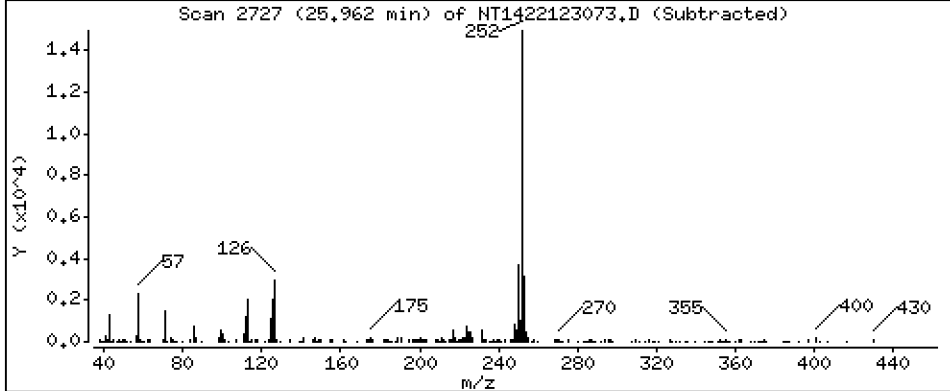
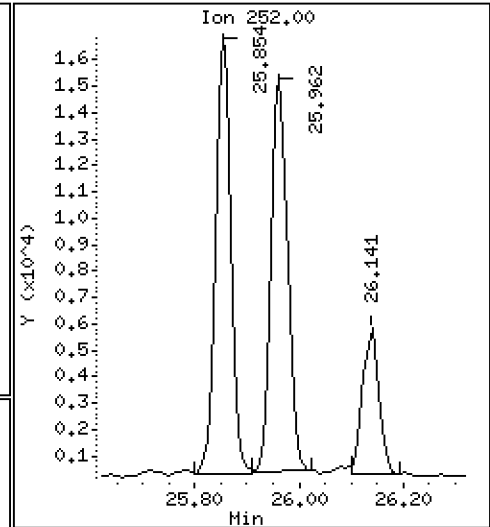
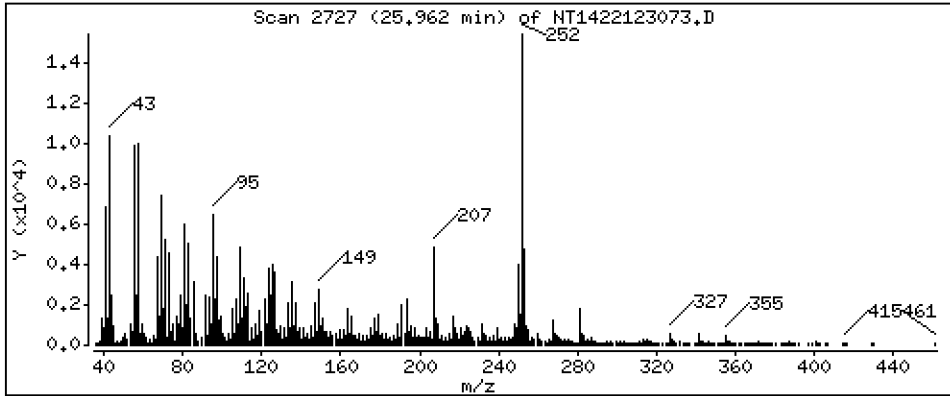
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,6456 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

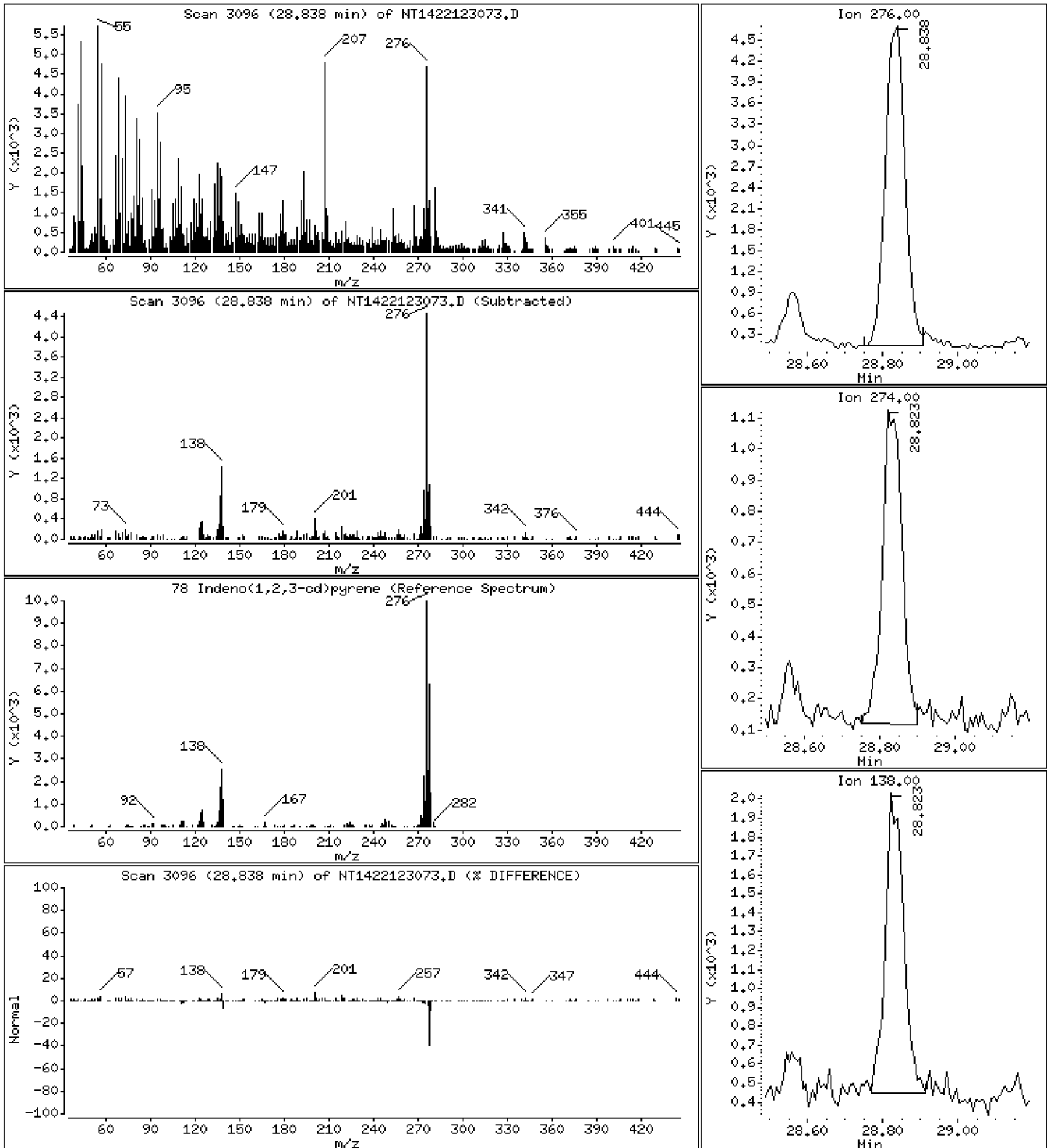
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2901 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

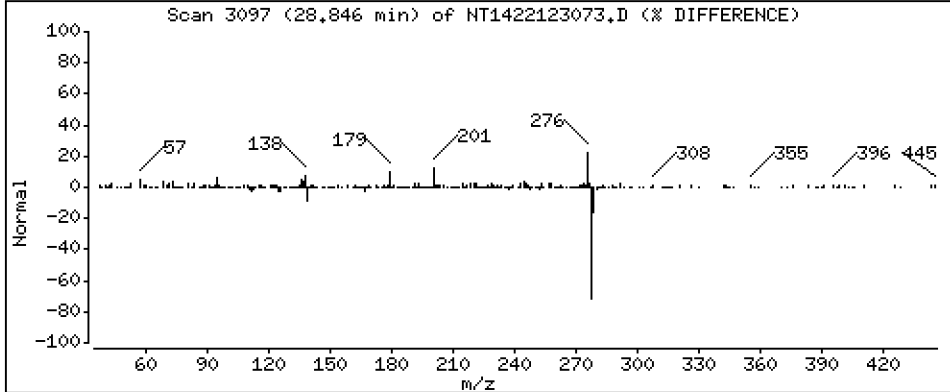
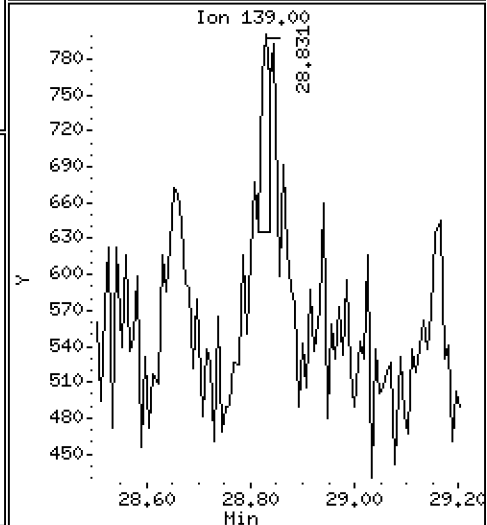
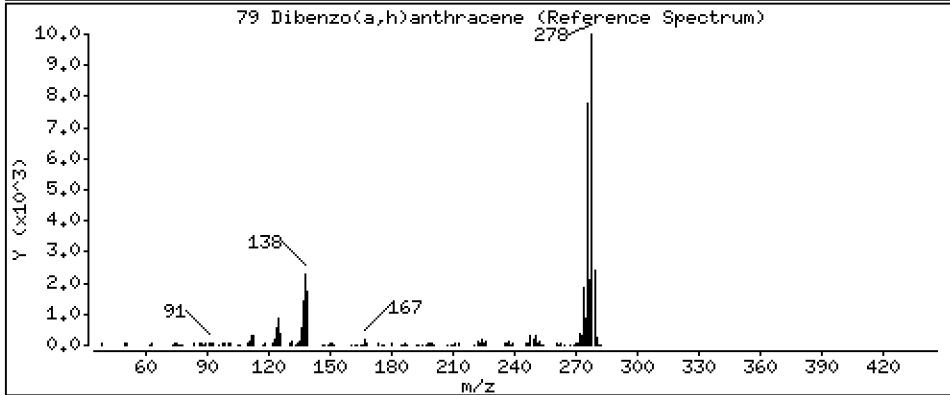
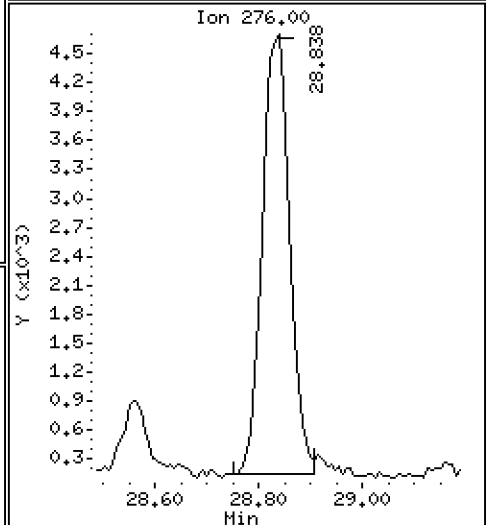
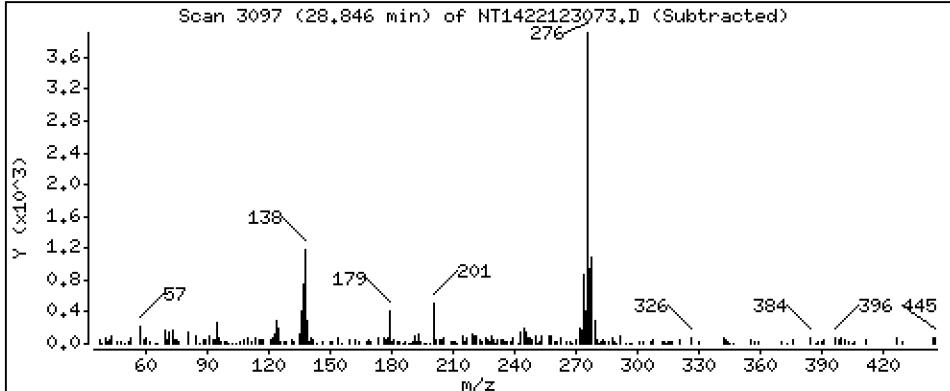
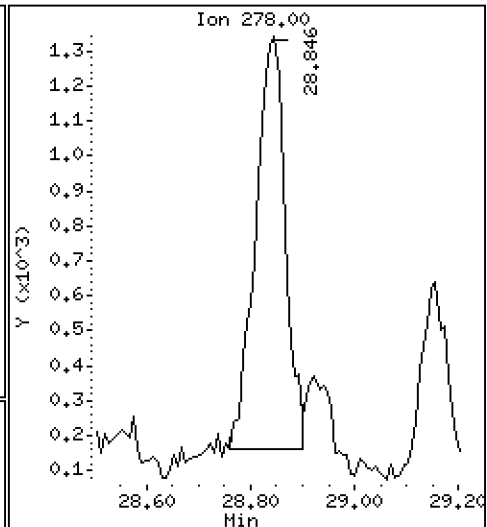
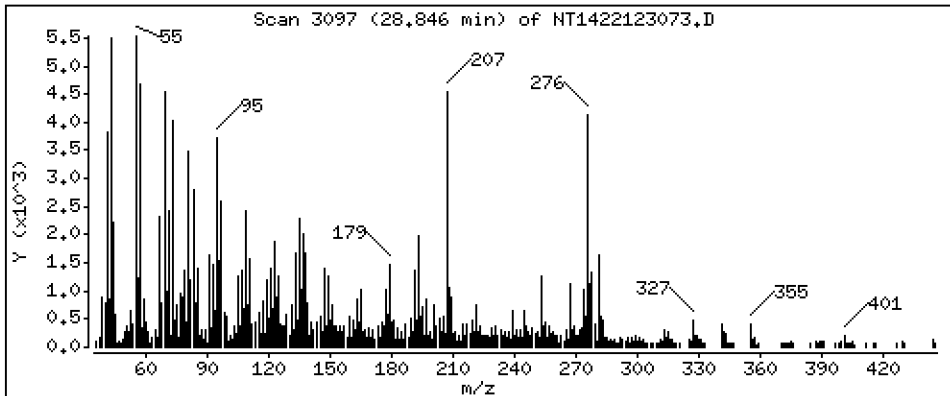
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

79 Dibenzo(a,h)anthracene

Concentration: 0.09575 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

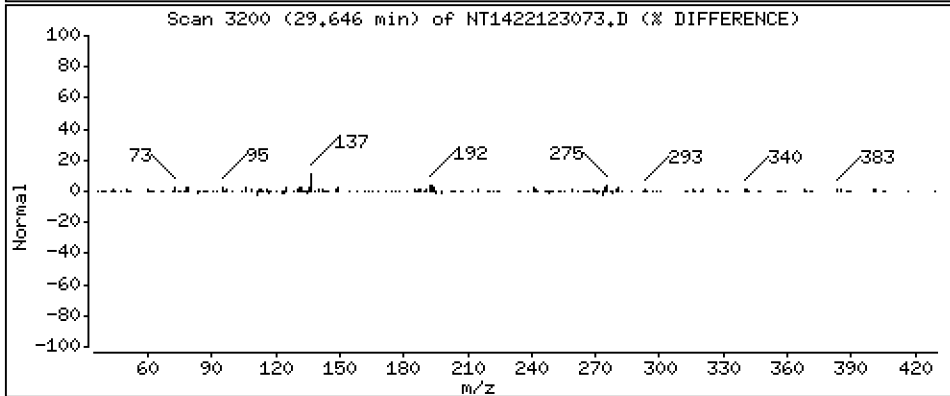
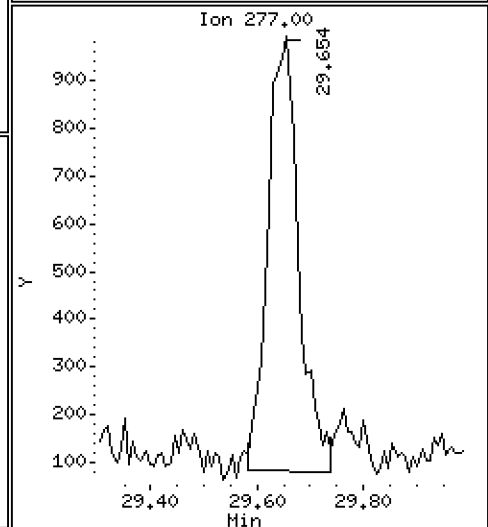
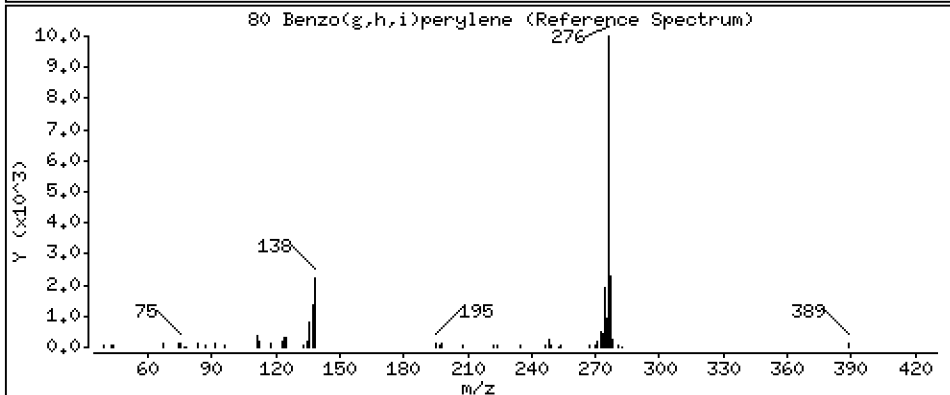
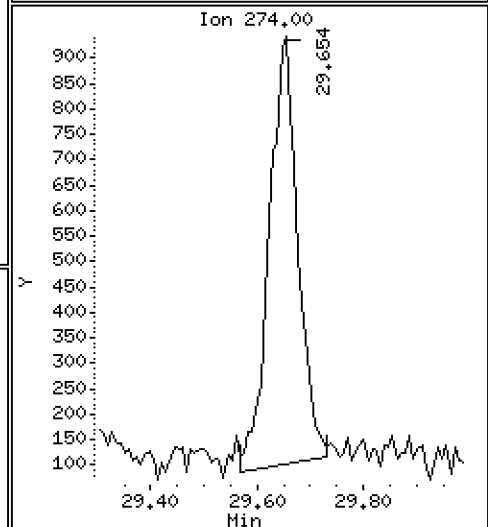
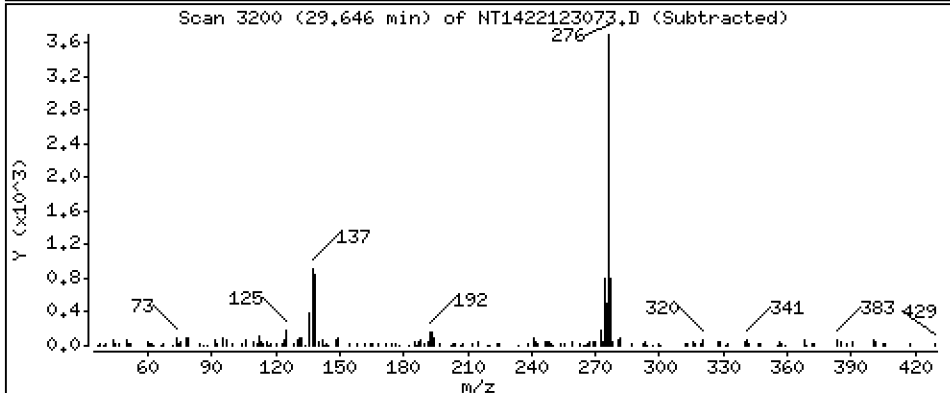
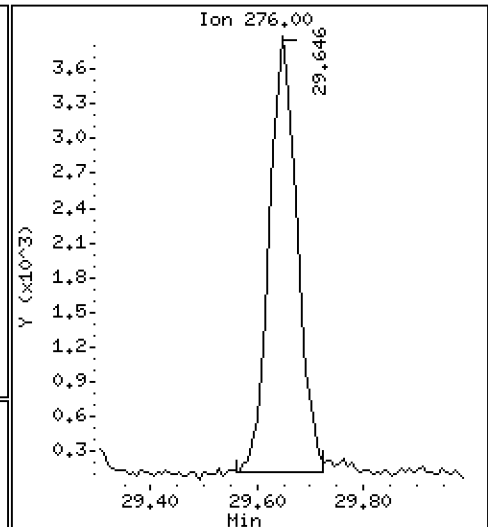
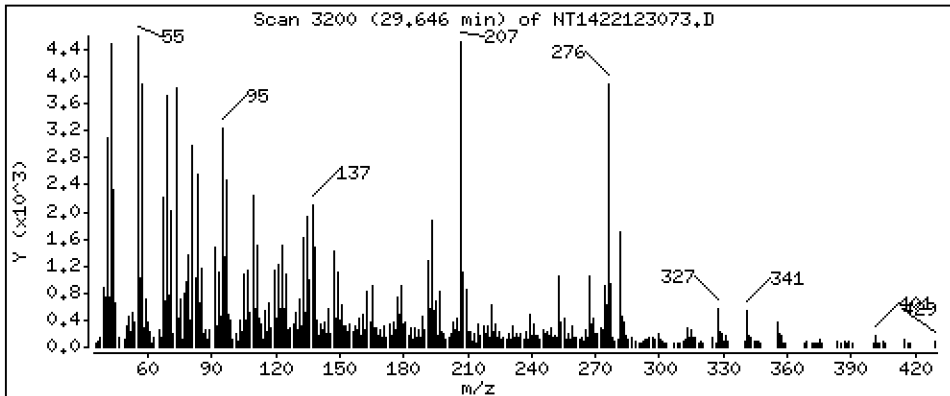
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2887 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

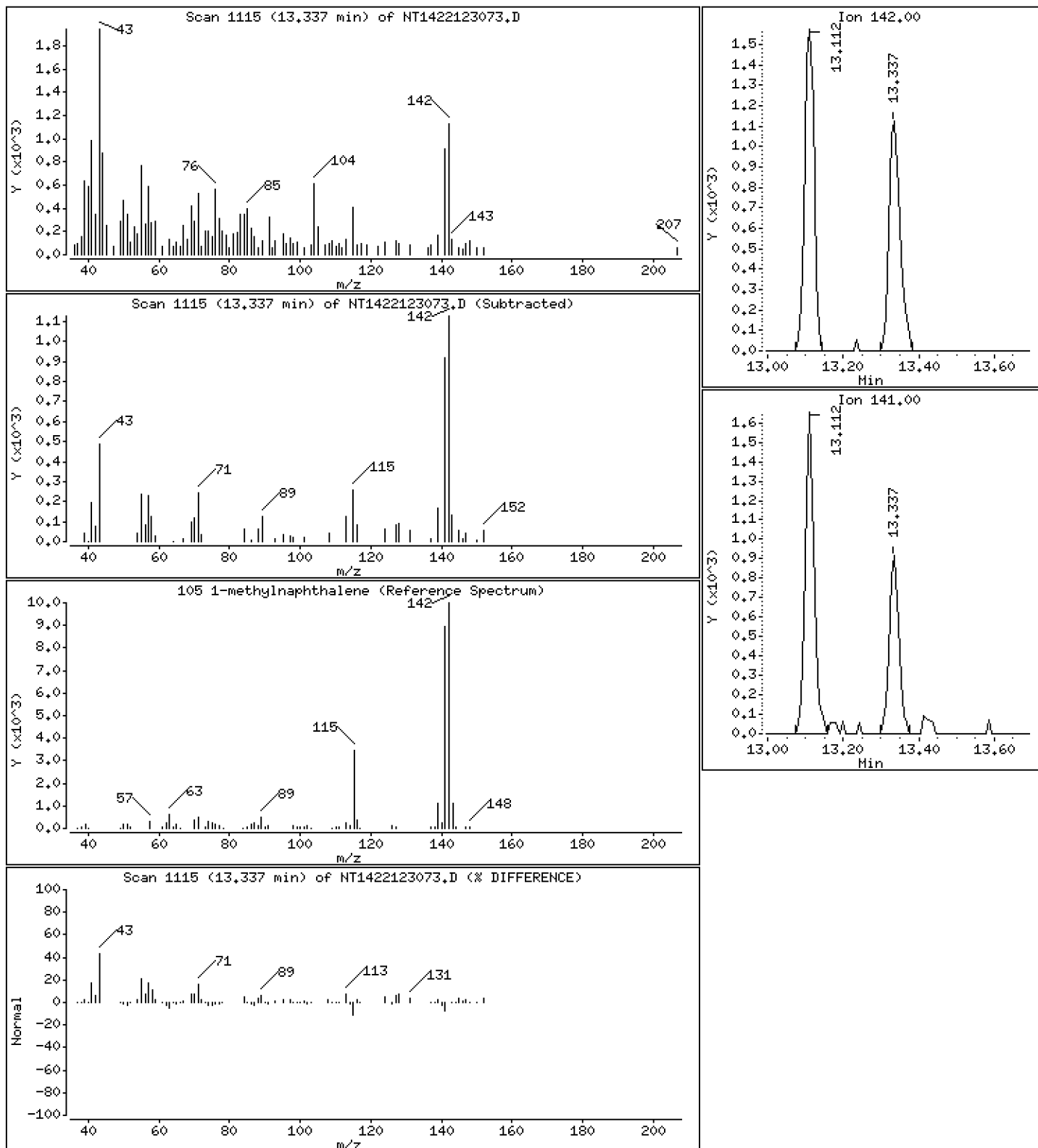
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,04057 ug/mL



Date : 01-JAN-2023 03:41

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-01

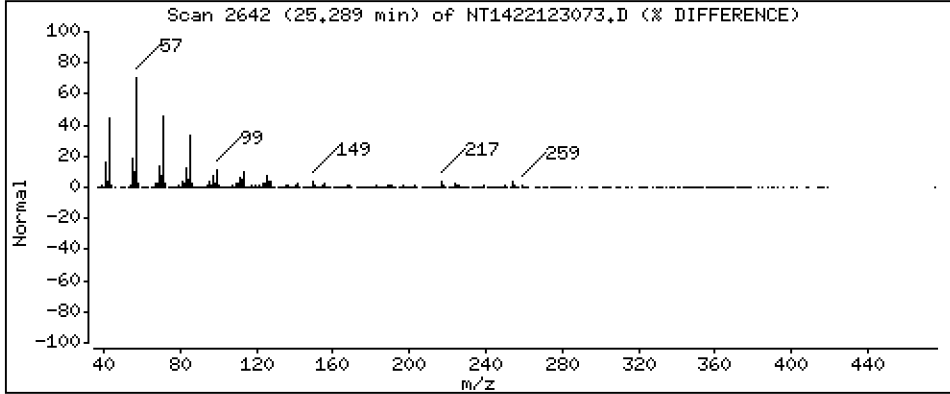
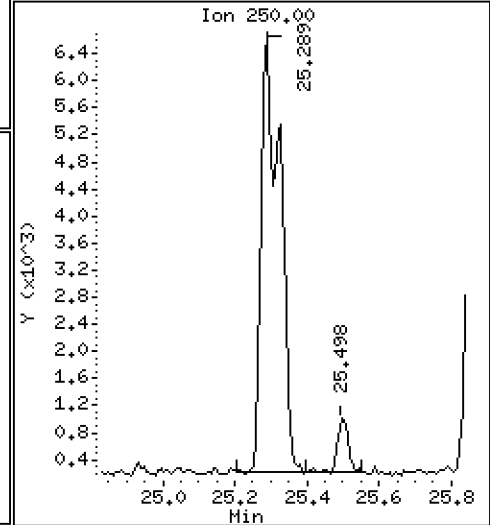
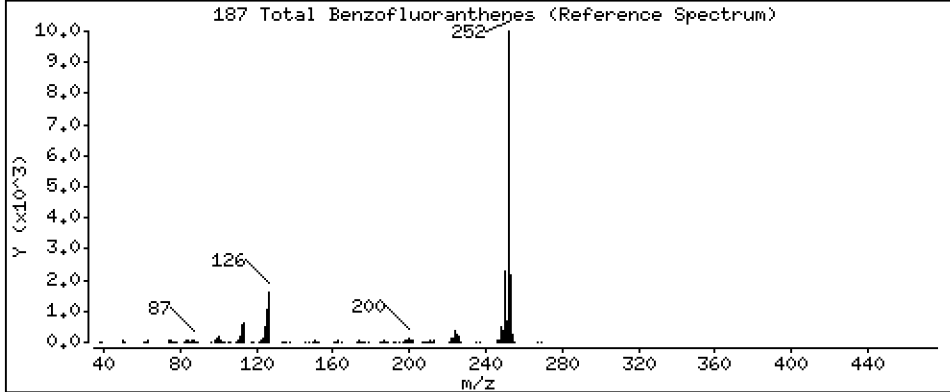
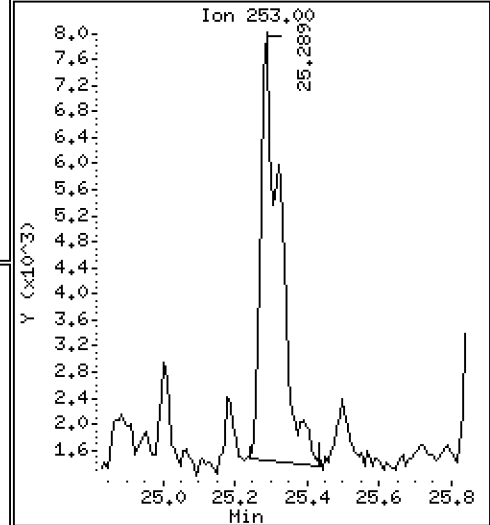
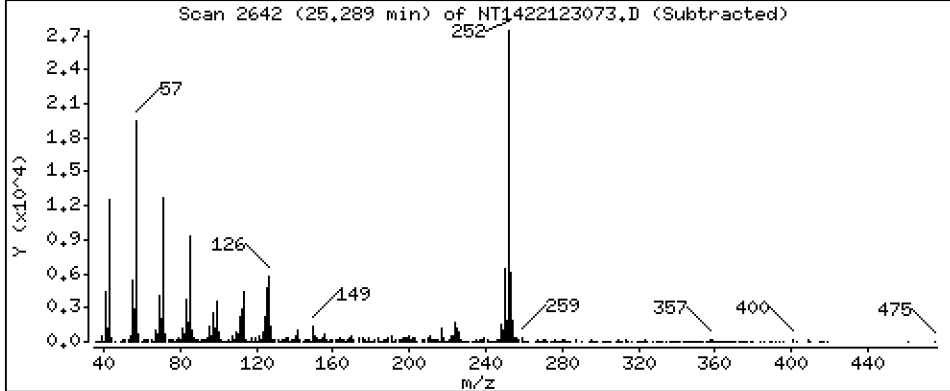
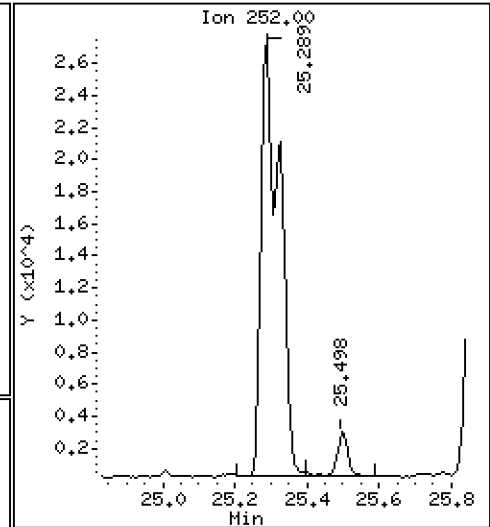
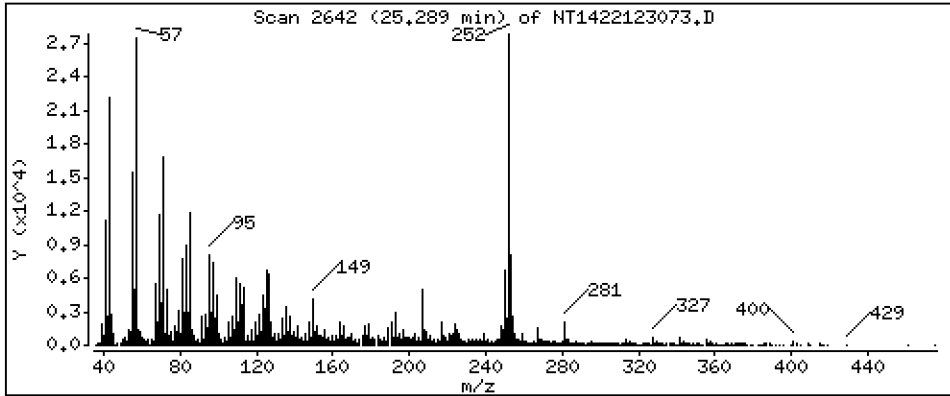
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,685 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123073.D
 Lab Smp Id: 22L0104-01
 Inj Date : 01-JAN-2023 03:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : 22L0104-01
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 44
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.919	(0.757)	168486	5.99092	5.991
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	216779	6.23723	6.237
3 Phenol	94		8.542	8.542	(0.932)	8028	0.20328	0.2033
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	192491	6.59458	6.595
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	87784	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	79432	3.98151	3.982
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		9.440	9.440	(1.030)	24766	1.40867	1.409 (M)
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.944	9.936	(1.086)	2217	0.07323	0.07323
\$ 18 Nitrobenzene-d5	82		10.255	10.262	(0.879)	128404	4.85045	4.850
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		11.131	11.209	(0.954)	97054	5.73973	5.740
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	313493	4.00000	
28 Naphthalene	128		11.704	11.712	(1.003)	6392	0.08285	0.08285
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.112	13.120	(1.124)	2587	0.04571	0.04571
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.894	13.901	(0.908)	249988	4.69802	4.698
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163		14.791	14.799	(0.967)	69814	1.56421	1.564
40 Acenaphthylene	152		14.985	14.993	(0.979)	4241	0.06144	0.06144
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.302	15.310	(1.000)	158263	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168		15.696	15.704	(1.026)	2732	0.04256	0.04256
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.253	16.268	(1.062)	24624	0.40590	0.4059
49 Fluorene	166		16.415	16.423	(1.073)	2049	0.03000	0.03000
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.947	16.955	(1.108)	53904	7.00201	7.002
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266		18.090	18.090	(0.986)	1651	0.19586	0.1959
* 59 Phenanthrene-d10	188		18.353	18.361	(1.000)	272846	4.00000	
60 Phenanthrene	178		18.400	18.408	(1.003)	33720	0.47400	0.4740
61 Anthracene	178		18.493	18.500	(1.008)	7892	0.11621	0.1162
62 Carbazole	167		18.818	18.825	(1.025)	4263	0.06493	0.06493
63 Di-n-butylphthalate	149		19.607	19.614	(1.068)	27130	0.36557	0.3656
64 Fluoranthene	202		20.783	20.791	(0.888)	84844	1.27228	1.272
65 Pyrene	202		21.208	21.216	(0.907)	75787	1.08089	1.081
\$ 66 Terphenyl-d14	244		21.487	21.495	(0.919)	235933	4.74562	4.746
67 Butylbenzylphthalate	149		22.400	22.408	(0.958)	5916	0.22370	0.2237
68 Benzo(a)anthracene	228		23.368	23.376	(0.999)	30519	0.48644	0.4864
* 69 Chrysene-d12	240		23.392	23.399	(1.000)	207110	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228		23.438	23.446	(1.002)	57638	0.97258	0.9726
72 bis(2-Ethylhexyl)phthalate	149		23.423	23.430	(0.959)	48489	1.18923	1.189
* 134 Di-n-octylphthalate-d4	153		24.421	24.421	(1.000)	367137	4.00000	
73 Di-n-octylphthalate	149		24.429	24.429	(1.000)	2371	0.02690	0.02690
74 Benzo(b)fluoranthene	252		25.288	25.296	(0.970)	54359	0.90118	0.9012
75 Benzo(k)fluoranthene	252		25.327	25.335	(0.971)	51045	0.83144	0.8314 (M)
76 Benzo(a)pyrene	252		25.962	25.970	(0.996)	32372	0.64558	0.6456
* 77 Perylene-d12	264		26.078	26.086	(1.000)	191935	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.838	28.838	(1.106)	16534	0.29006	0.2901
79 Dibenzo(a,h)anthracene	278		28.846	28.853	(1.106)	4638	0.09575	0.09575
80 Benzo(g,h,i)perylene	276		29.646	29.653	(1.137)	13787	0.28872	0.2887
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142		13.336	13.344	(1.143)	2206	0.04057	0.04057
111 Azobenzene (1,2-DP-Hydrazine)	77							

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252		25.288	25.335	(0.970)	98262	1.68498	1.685
120 2,3,4,6-Tetrachlorophenol	232		Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123073.D Calibration Time: 23:30
 Lab Smp Id: 22L0104-01
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	87784	-36.73
27 Naphthalene-d8	501723	250862	1003446	313493	-37.52
42 Acenaphthene-d10	275234	137617	550468	158263	-42.50
59 Phenanthrene-d10	440085	220043	880170	272846	-38.00
69 Chrysene-d12	384795	192398	769590	207110	-46.18
134 Di-n-octylphthala	674530	337265	1349060	367137	-45.57
77 Perylene-d12	336665	168333	673330	191935	-42.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.39	-0.03
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123073.D

Lab ID: 22L0104-01
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 03:41

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid

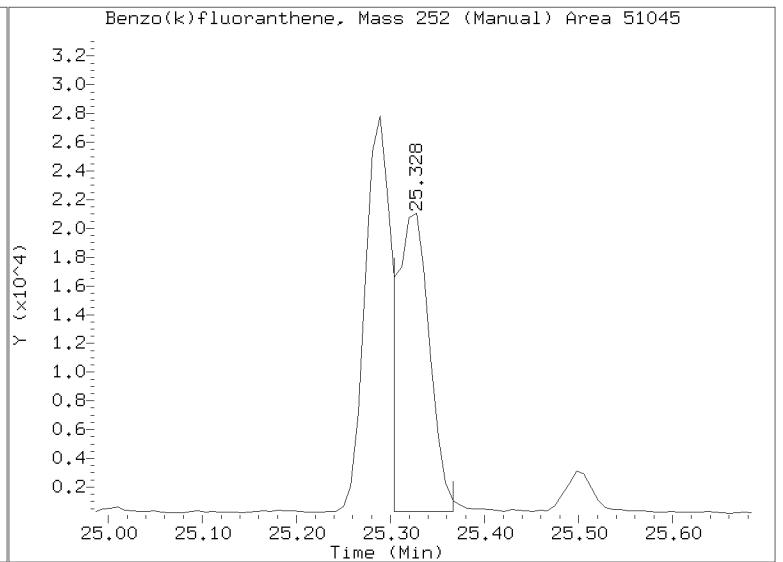
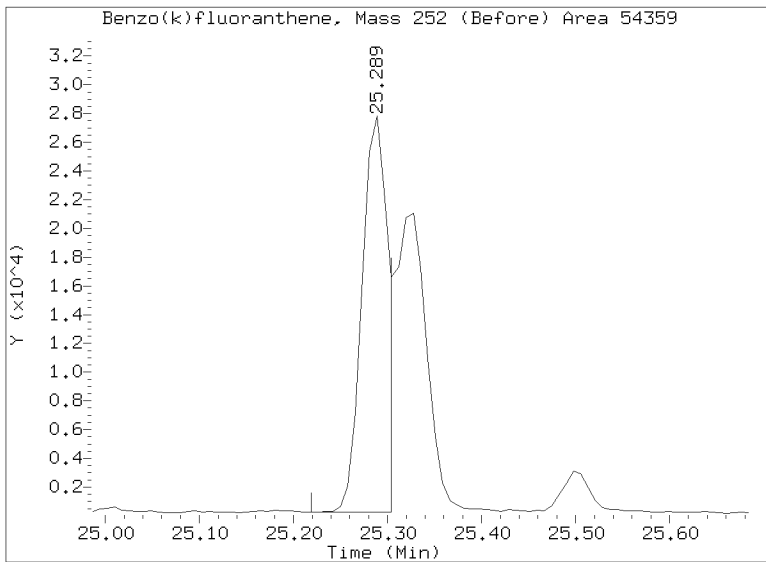
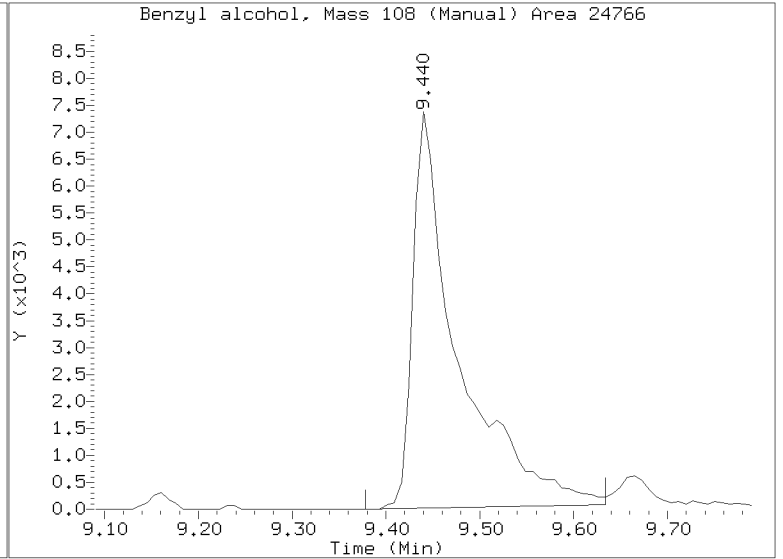
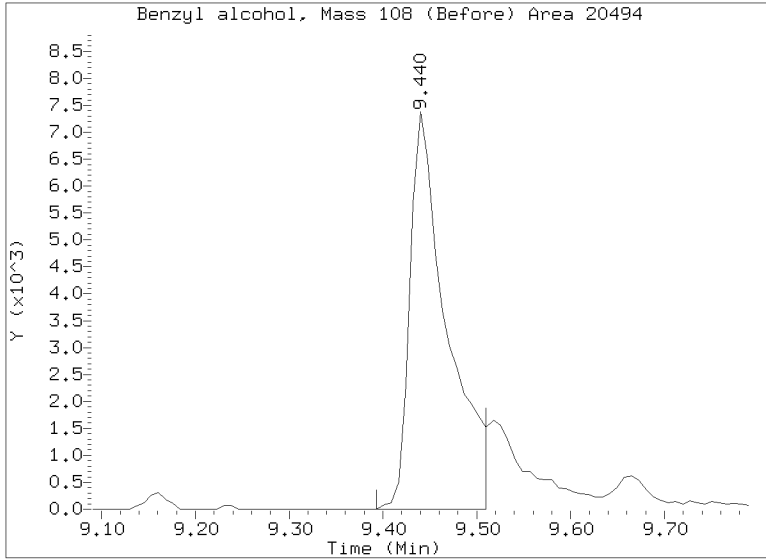
RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123073.D
Injection Date: 01-JAN-2023 03:41
Lab ID:22L0104-01 Client ID:
Report Date: 01/04/2023 14:25





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

Laboratory: Analytical Resources, LLC
 Client: Anchor OEA, LLC
 Project: AOC4 UR Phase 3
 Matrix: Sediment Laboratory ID: 22L0104-02 B SDG: 22L0104
 Sampled: 12/02/22 07:20 Prepared: 12/09/22 14:39 File ID: NT1422123074.D
 % Solids: 92.86 Preparation: EPA 3546 (Microwave) Analyzed: 01/01/23 04:17
 Batch: BKL0193 Sequence: SKL0355 Initial/Final: 10.82 g Wet / 1 mL
 Instrument: NT14 Column: ZB-5MS Calibration: FL00066
 Cleanups: GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-44-5	4-Methylphenol	1	19.9	U	7.4	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Phenol-d5	746.46	471	63.1	29 - 120	
2-Chlorophenol-d4	746.46	474	63.6	31 - 120	
1,2-Dichlorobenzene-d4	497.64	335	67.2	32 - 120	
Nitrobenzene-d5	497.64	394	79.2	30 - 120	

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123074.D

Date: 01-JAN-2023 04:17

Client ID:

Sample Info: 22L0104-02

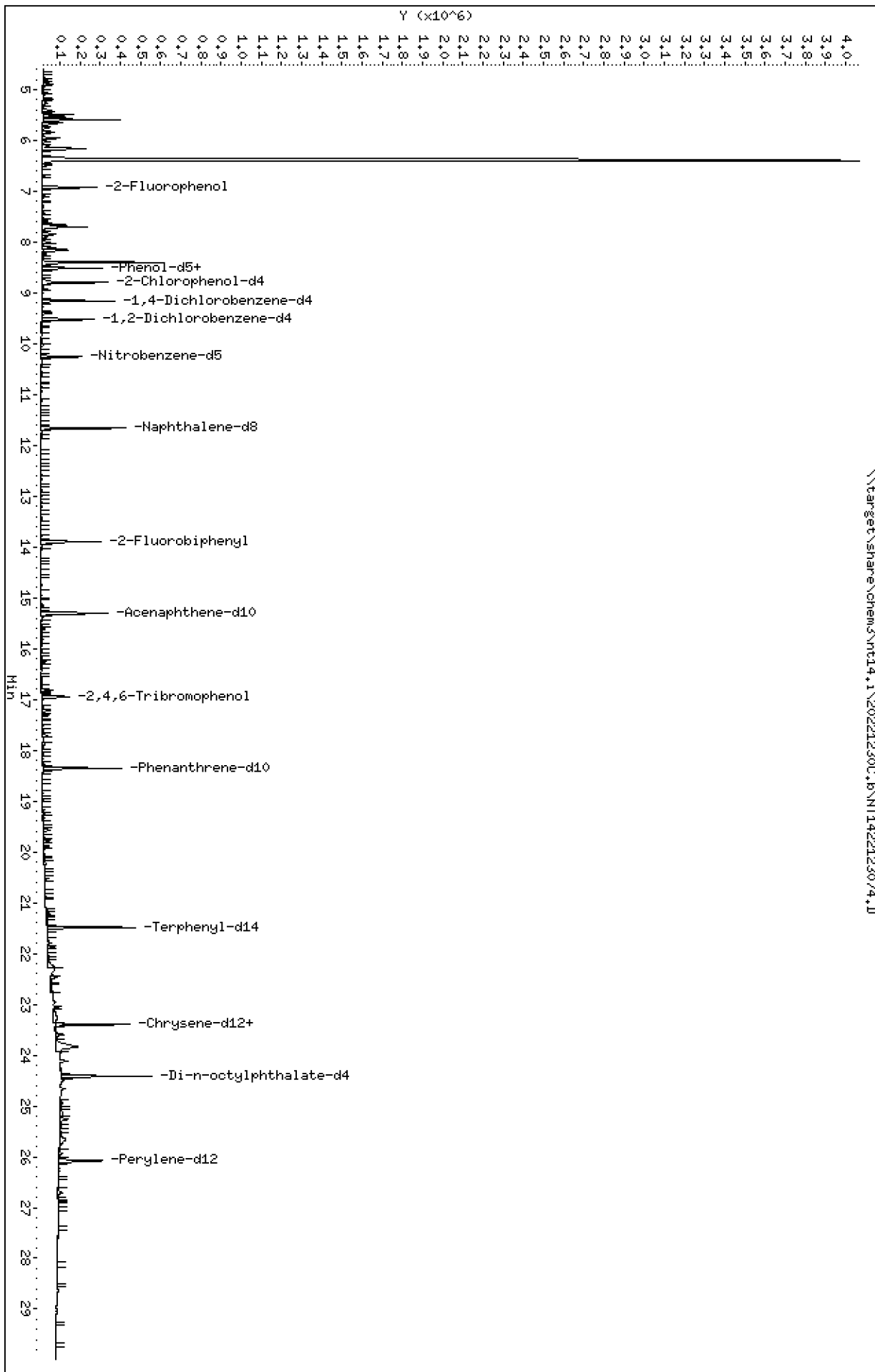
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123074.D



Date : 01-JAN-2023 04:17

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-02

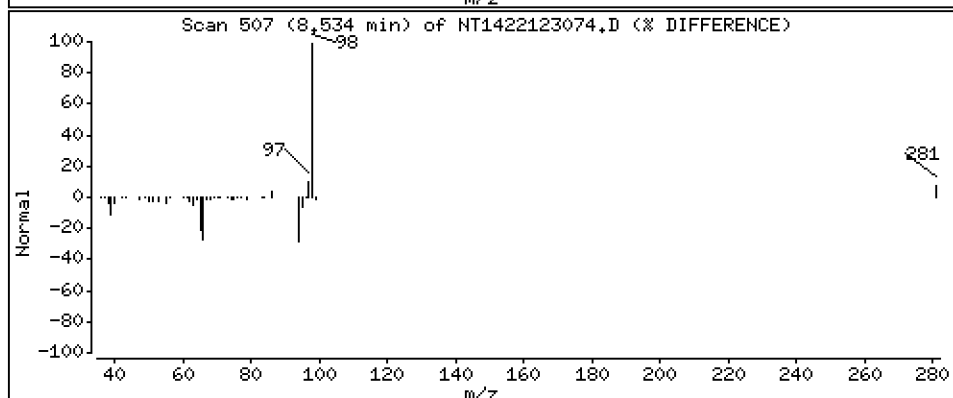
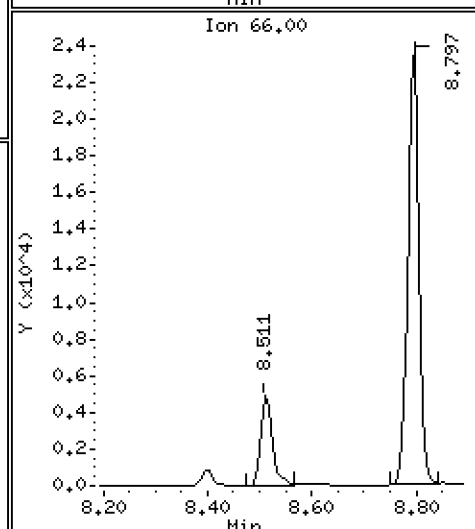
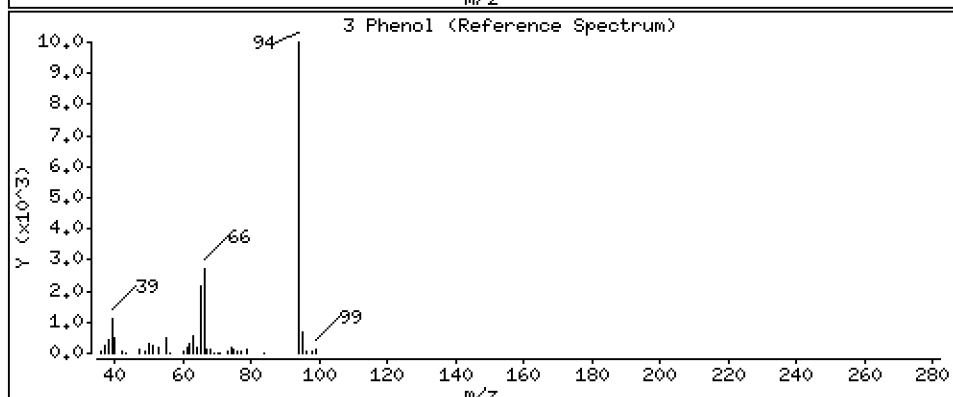
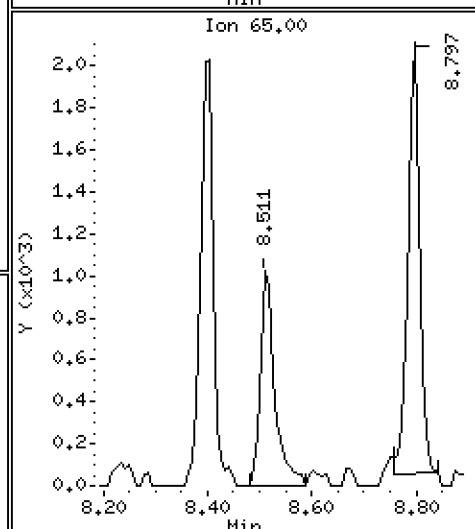
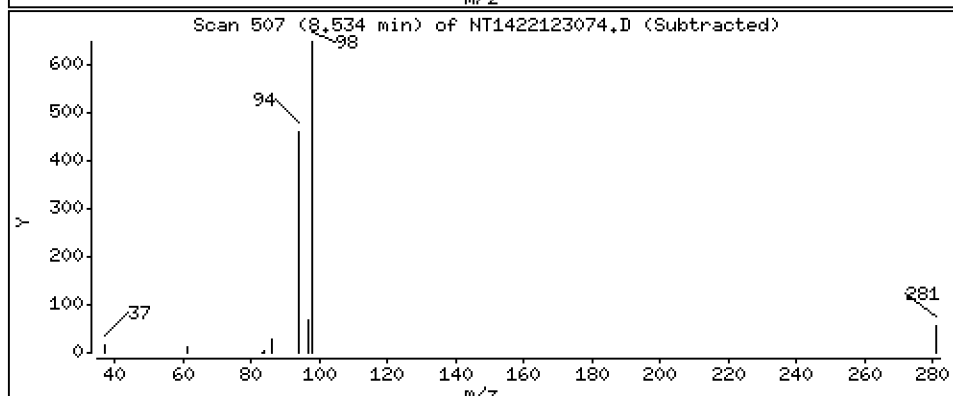
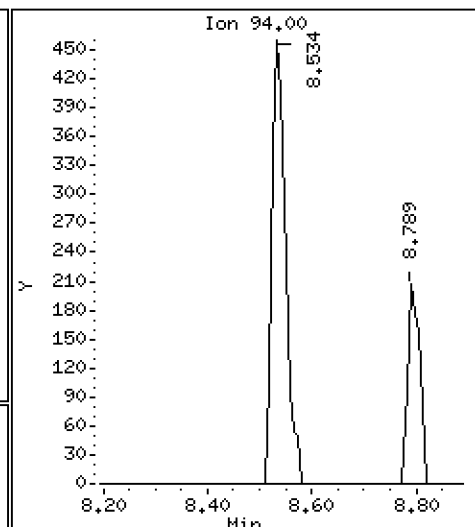
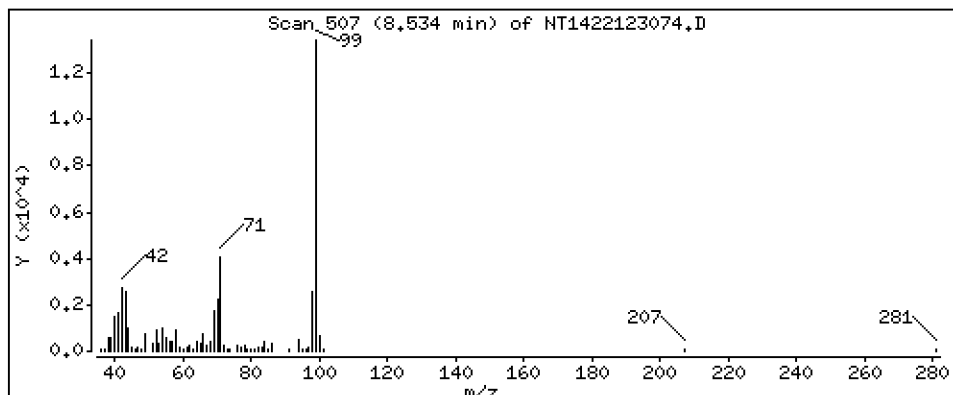
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,02020 ug/mL



Date : 01-JAN-2023 04:17

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-02

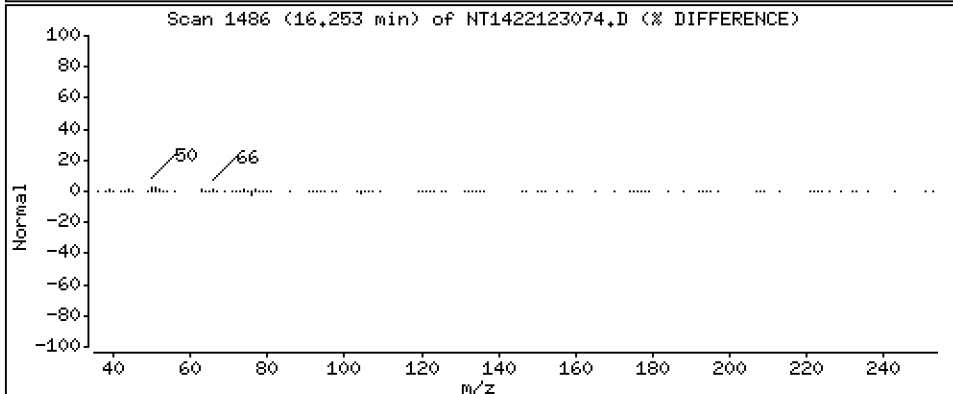
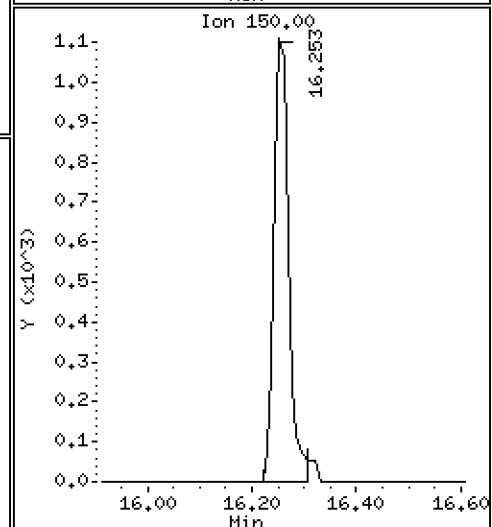
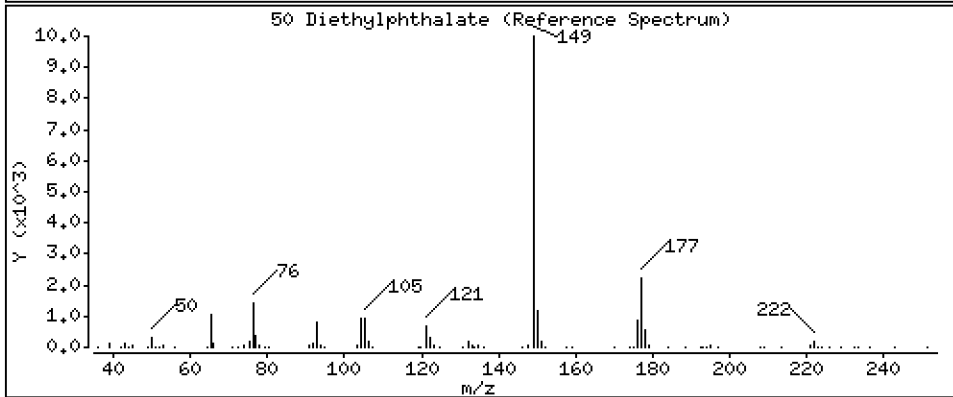
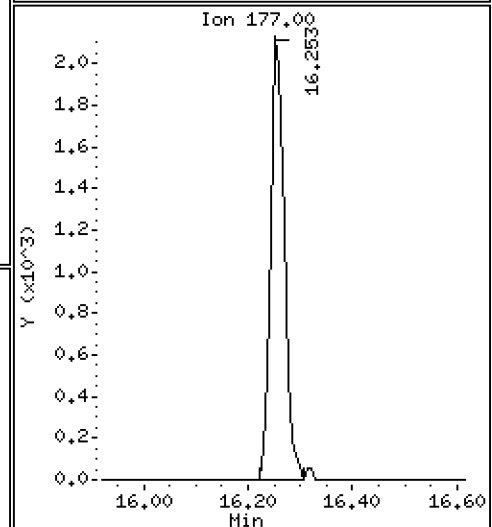
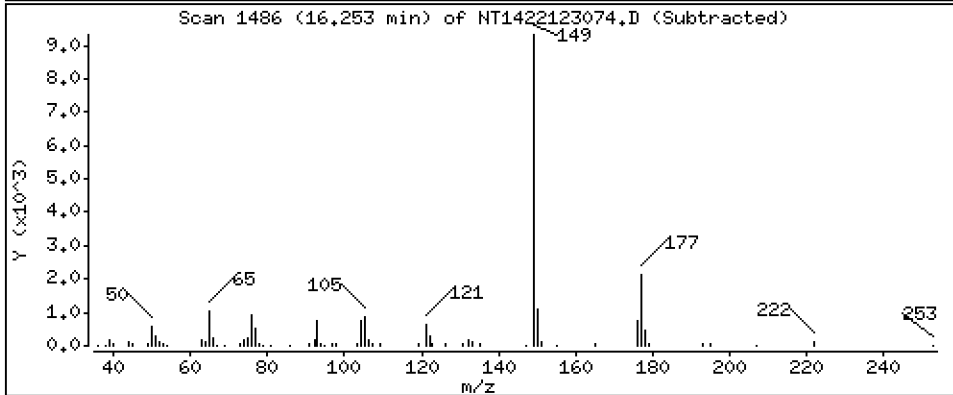
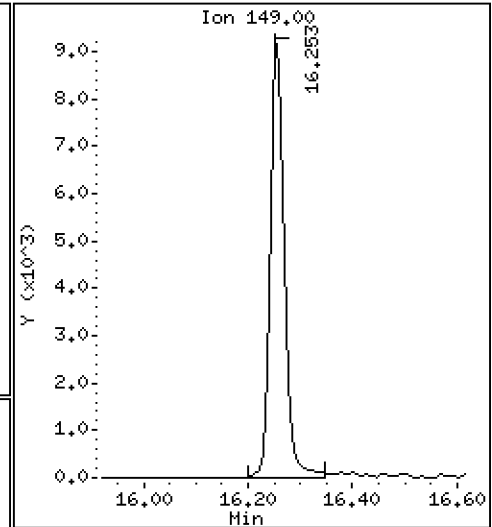
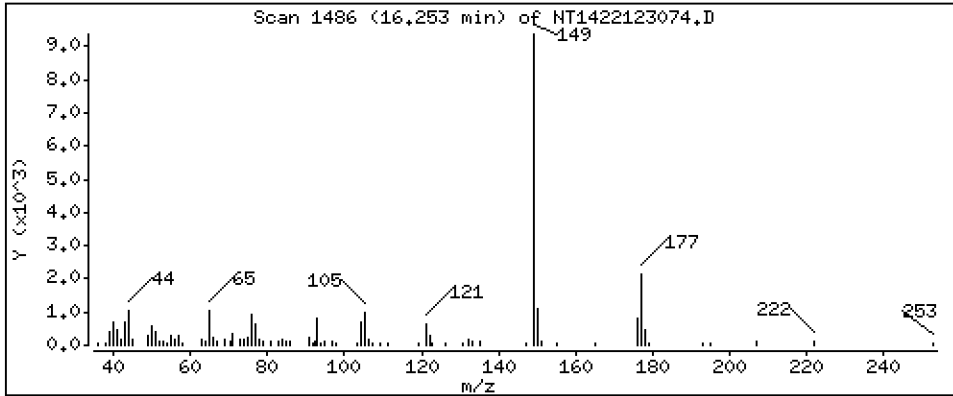
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,3069 ug/mL



Date : 01-JAN-2023 04:17

Client ID:

Instrument: nt14.i

Sample Info: 22L0104-02

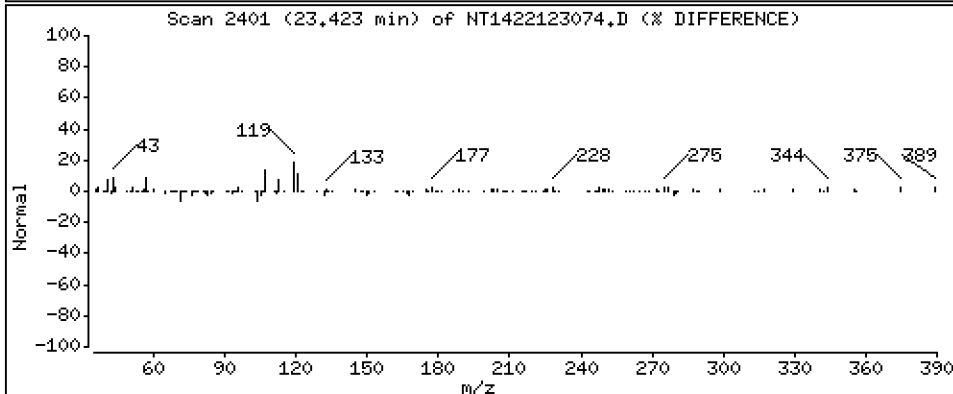
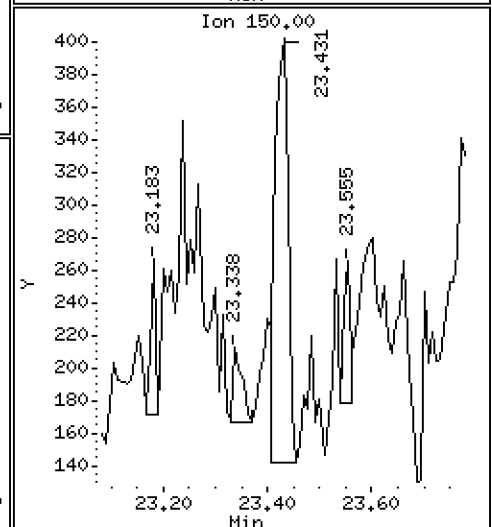
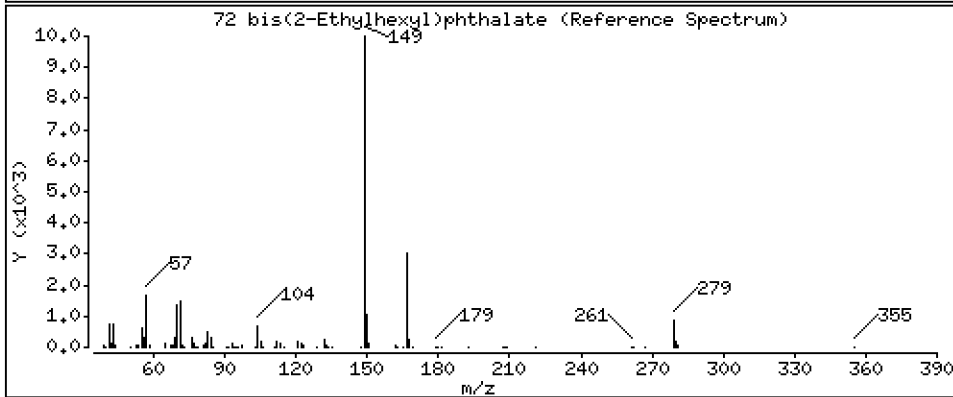
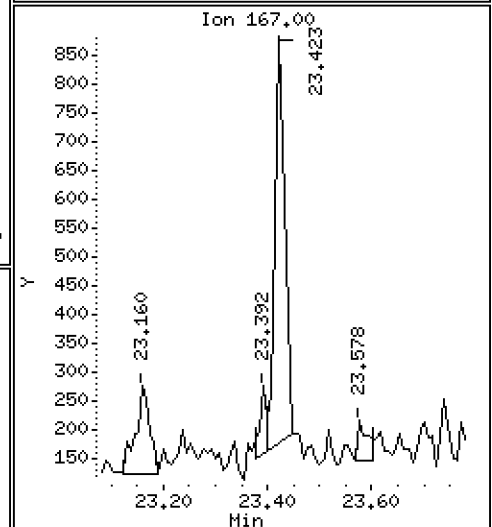
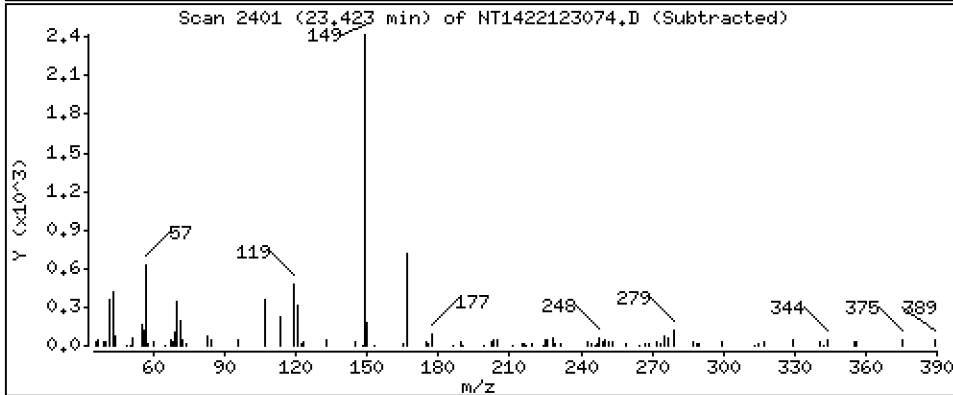
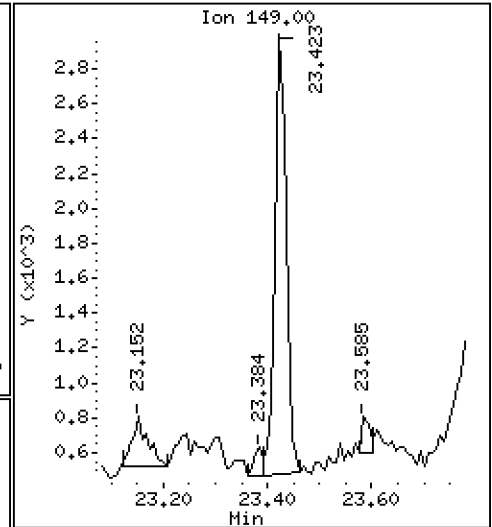
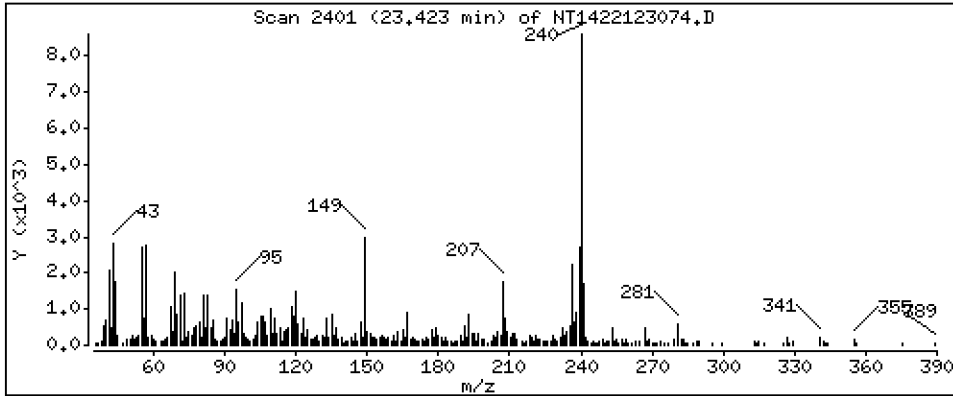
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0.08751 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123074.D
 Lab Smp Id: 22L0104-02
 Inj Date : 01-JAN-2023 04:17 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : 22L0104-02
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 45
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.919	(0.756)	121232	4.24469	4.245
\$ 2 Phenol-d5	99		8.511	8.519	(0.929)	167039	4.73251	4.733
3 Phenol	94		8.534	8.542	(0.932)	810	0.02020	0.02020
\$ 5 2-Chlorophenol-d4	132		8.796	8.797	(0.960)	141309	4.76700	4.767
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	89149	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	68096	3.36103	3.361
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.254	10.262	(0.879)	106222	3.95797	3.958
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.665	11.673	(1.000)	317814	4.00000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.893	13.901	(0.908)	200434	3.79005	3.790
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.302	15.310	(1.000)	157290	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.253	16.268	(1.062)	18504	0.30691	0.3069
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.955	16.955	(1.108)	28056	3.73588	3.736
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.353	18.361	(1.000)	268147	4.00000	
60 Phenanthrene	178							
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202							
65 Pyrene	202							
\$ 66 Terphenyl-d14	244		21.487	21.495	(0.918)	225538	4.52528	4.525
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		23.399	23.399	(1.000)	207625	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149		23.422	23.430	(0.959)	3522	0.08751	0.08751
* 134 Di-n-octylphthalate-d4	153		24.413	24.421	(1.000)	362397	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		26.086	26.086	(1.000)	176715	4.00000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142							
111 Azobenzene (1,2-DP-Hydrazine)	77							

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123074.D Calibration Time: 23:30
 Lab Smp Id: 22L0104-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	89149	-35.75
27 Naphthalene-d8	501723	250862	1003446	317814	-36.66
42 Acenaphthene-d10	275234	137617	550468	157290	-42.85
59 Phenanthrene-d10	440085	220043	880170	268147	-39.07
69 Chrysene-d12	384795	192398	769590	207625	-46.04
134 Di-n-octylphthala	674530	337265	1349060	362397	-46.27
77 Perylene-d12	336665	168333	673330	176715	-47.51

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	-0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	-0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123074.D

Lab ID: 22L0104-02
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 04:17

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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



PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0104
Client: Anchor QEA, LLC Project: AOC4 UR Phase 3
Batch: BKL0193 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS773	22L0104-01	NT1422123073.D	12/09/22 14:39	
LDW22-SS774	22L0104-02	NT1422123074.D	12/09/22 14:39	
Blank	BKL0193-BLK1	NT1422123069.D	12/09/22 14:39	
LCS	BKL0193-BS1	NT1422123070.D	12/09/22 14:39	
LCS Dup	BKL0193-BSD1	NT1422123071.D	12/09/22 14:39	
Reference	BKL0193-SRM1	NT1422123072.D	12/09/22 14:39	



Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)

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

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

Matrix: Solid

Date Prepared: 12/19/22

Balance ID: B146462614 Set Up By: CTO 12/8/22

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>
22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g)		(REQ) GPC C/U (1:1) 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual					
22L0104-01 B	48.0	(20.85)	24.89	(1:1)	1mL	1	0.5	
22L0104-02 B	92.9	(10.77)	16.82	(1:1)	1mL	1	0.5	
22L0136-01 A	51.2	(19.53)	19.55	(1:1)	1mL	1	0.5	
22L0136-08 A	65.9	(15.17)	15.18	(1:1)	1mL	1	0.5	
22L0136-09 A	75.5	(13.25)	13.27	(1:1)	1mL	1	0.5	
22L0136-10 A	42.7	(23.44)	23.48	(1:1)	1mL	1	0.5	
22L0136-11 A	42.5	(23.51)	23.55	(1:1)	1mL	1	0.5	
22L0136-12 A	38.9	(25.70)	25.72	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g)		(REQ) GPC C/U (1:1) 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual					
BKL0193-BLK1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-BS1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-BSD1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0193-MS1	75.5	(13.25)	13.25	(1:1)	1mL	1	0.5	Use 22L0136-09
BKL0193-MSD1	75.5	(13.25)	13.25	(1:1)	1mL	1	0.5	Use 22L0136-09
BKL0193-SRM1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use K000591

+1g DI WATER

Client ID verified By: [Signature] Date: 12/19/22

Preparation Reviewed By: ZH Date: 12/19/22

Extraction Date and Time: 12/19/22 14:39



Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:BEHP Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:Phenol Only)

WO Comments
22L0104: <G> BPR Project batch as much as possible <G> <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD <E>
<H>BPR J006840-43, 7935-36 Dup <H>
22L0136: <G> BPR Project batch as much as possible <G> <C>BPR SRM, MS, DUP <C> <M>BPR PS, MS/MSD <M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD <E>
<H>BPR J006840-43, 7935-36 Dup <H> Store immediately in freezer (except GS)

Prep Steps	Reagents Used	Standard ID	Surrogates & Spike Standards Used
Microwave 1 2 3 12/9/22 Analyst/Date	Microwave Analyst: <i>YJ</i> Date: 12/9/22 Anhydrous Sodium Sulfate	K010995	Surrogate Type: A Vial ID / Standard ID: K010466 Vol uL: 50µL Analyst: <i>CT</i> Witness: <i>YJ</i> Exp Date: 5/9/23
Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 5 6 12/12/22 Analyst/Date	1:1 Methylene Chloride/Acetone Methylene Chloride Pre-Deactivated Glass Wool	K010579 K0104735 K010197	Full List Spike (Freezer) Type: 7 Vial ID / Standard ID: K010225 (V) Vol uL: 50µL Analyst: <i>CT</i> Witness: <i>YJ</i> Exp Date: 12/31/23
TurboVap Pre GPC 1 2 3 4 5 12-13-22 Analyst/Date	Anhydrous Sodium Sulfate Methylene Chloride Hexane	K010561 K008310	Base Spike Type: 56 Vial ID / Standard ID: K010225 (V) Vol uL: 50µL Analyst: <i>CT</i> Witness: <i>YJ</i> Exp Date: 4/19/23
Post GPC KD 80-85°C 0 2 4 5 6 12/15/22 Analyst/Date	Pre GPC KD Analyst: <i>CP</i> Date: 12/12/22 Pre-Deactivated Glass Wool		Acid Spike Type: 38 Vial ID / Standard ID: K010225 (V) Vol uL: 50µL Analyst: <i>CT</i> Witness: <i>YJ</i> Exp Date: 4/19/23
TurboVap 1 2 3 4 5 12/15/22 Analyst/Date	GPC Filter Prep Analyst: <i>AA</i> Date: 12-13-22 Methylene Chloride	K0010561	MANUALLY ENTER EXPIRATION DATES! (V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.
Water Wash 1 2 3 4 5 12/19/22 Analyst/Date	GPC Analyst: <i>AA</i> Date: 12-13-22 Methylene Chloride	K0010561	If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).
	TurboVap 1 2 3 4 5 12/19/22 Analyst/Date	GPC Calibration File Post GPC KD Analyst: <i>LJ</i> Date: 12/15/22 Methylene Chloride	K010561 - GPC 2
	Water Wash 1 2 3 4 5 12/19/22 Analyst/Date	Vialing Analyst: <i>ZH</i> Date: 12/19/22 Methylene Chloride	K010561



Batch: BKL0193

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:4-MePhenol Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:BEHP Only)
8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:Phenol Only)

WO Comments
22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>
22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions

SPECIAL INSTRUCTIONS:

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

A. Need Total Solids Y N

B. Archive/Freeze Y N

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Extraction Parameter: SWA Extraction Batch BKLD193

Total Solids Batch: BKLD132 Work Order(s): 22L0104

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>φ2-</u>	<u>CR 12/16</u>
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>41 10-100 = φ1</u>	<u>CR 12/16</u>
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / N	<u>CR 12/16</u>
<input checked="" type="checkbox"/> Multiple Jars Y / N	<u>CR 12/16</u>
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: SVOA Extraction Batch BKLD193

Total Solids Batch: BKLD171 Work Order(s): 220136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= $\phi 1 - \phi 3, \phi 5 - \phi 7, 9$.	\downarrow 12/17/22
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= $\phi 1, \phi 4, 6 - 14$.	\downarrow 12/17/22
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	\downarrow
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? $\frac{1}{4} 5\% = \phi 8$ $5\% 0/0$	\downarrow 12/17/22
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= $5\% 0/0 = \phi 4$ $60\% 0 = 14$.	\downarrow 12/17/22
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= $1\phi - 13$.	\downarrow 12/17/22
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	\downarrow
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / N	\downarrow 12/17/22
<input checked="" type="checkbox"/> Multiple Jars Y / N	\downarrow 12/17/22
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	\downarrow
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



GPC1
BAN_Method_GPC1
BKL0193

Sample Description:

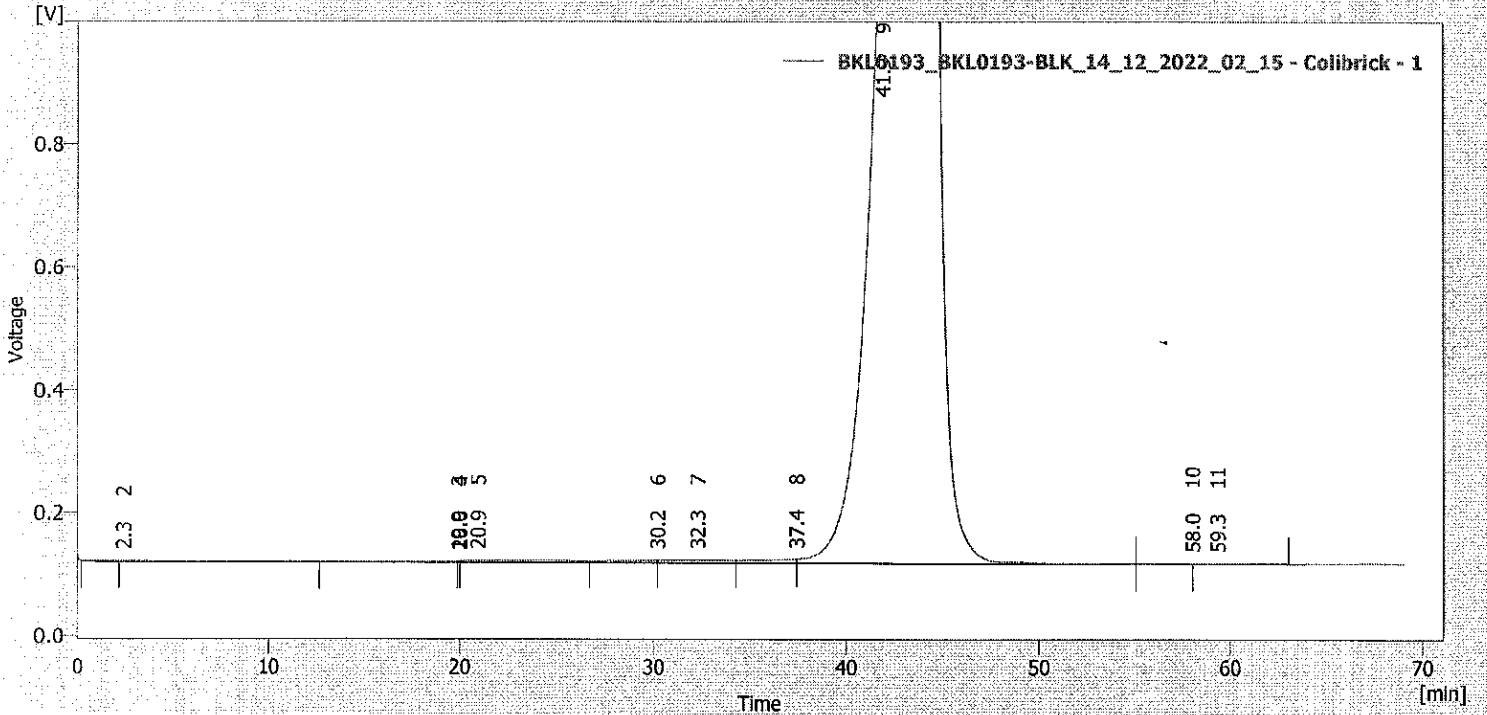
Sample ID : BKL0193
 Sample : BKL0193-BLK

Method : BAN_Method_GPC1
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM

By : Administrator
 Modified : 12/14/2022 2:15 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
 BAN_Method_GPC1
 BKL0193

Sample Description:

Sample ID : BKL0193
 Sample : BKL0193-BS

Method : BAN_Method_GPC1

By : Administrator

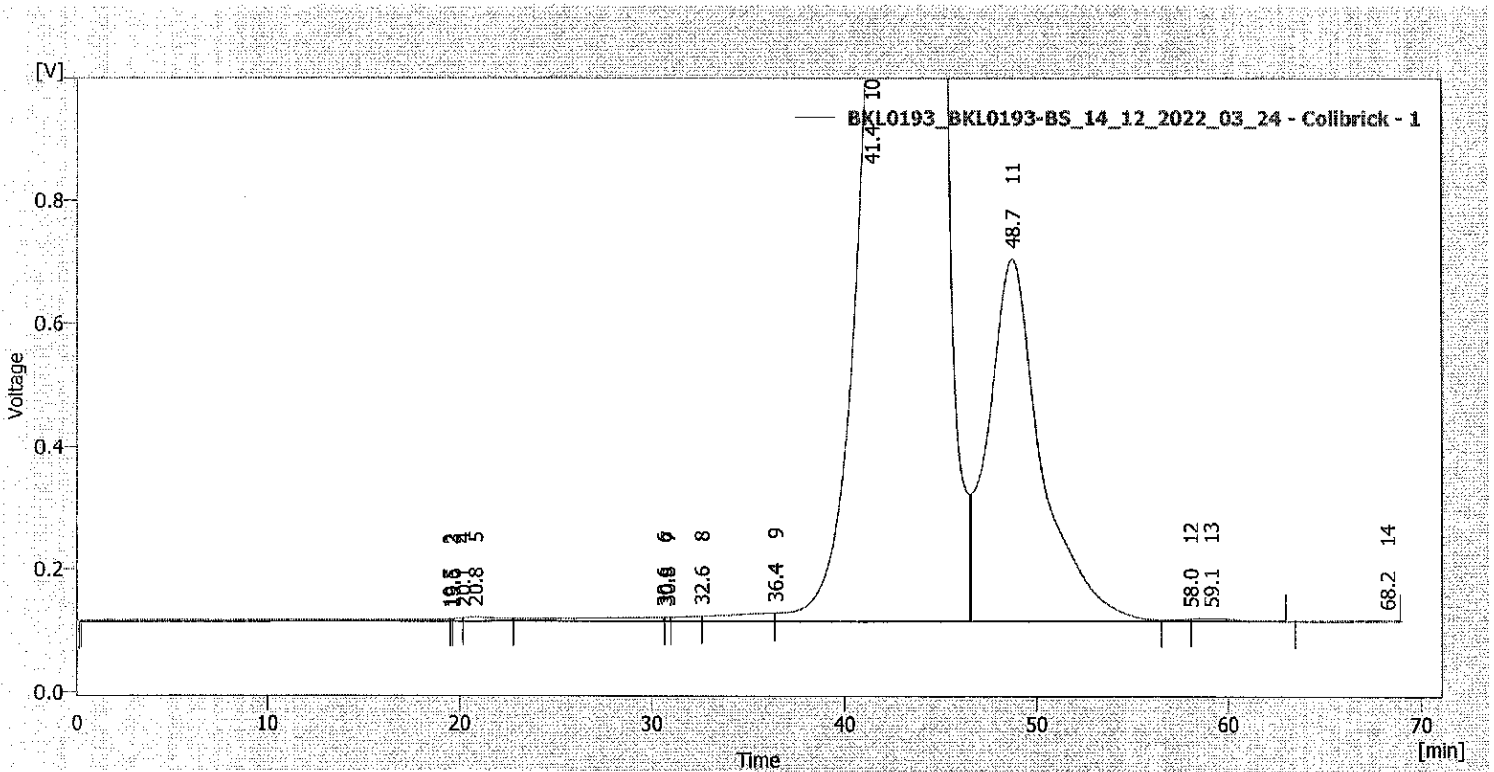
Description : GPC1- BAN

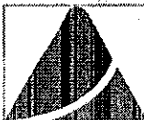
Created : 10/18/2013 6:05 AM

Modified : 12/14/2022 3:24 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
 BAN_Method_GPC1
 BKL0193

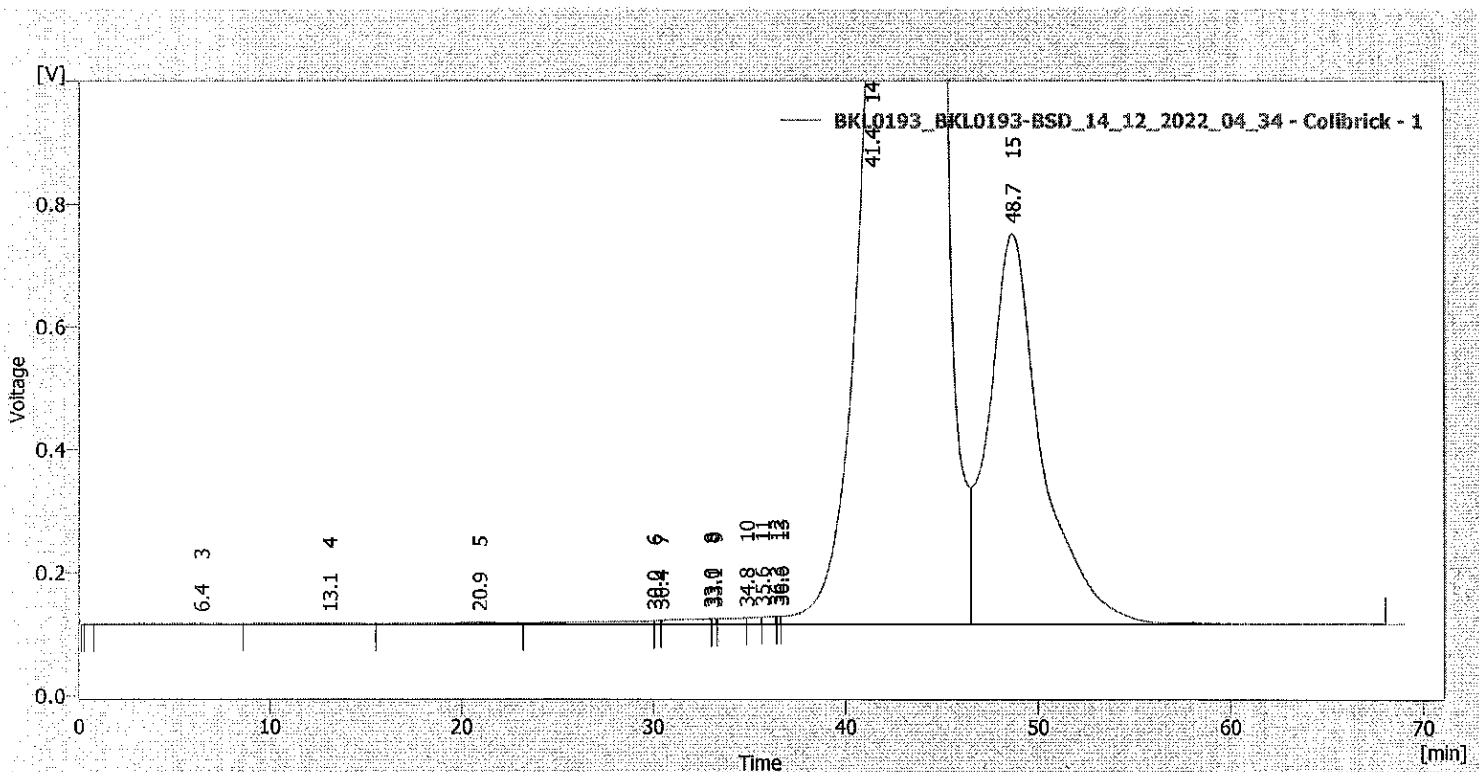
Sample Description:

Sample ID : BKL0193
 Sample : BKL0193-BSD

Method : BAN_Method_GPC1 By : Administrator
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM Modified : 12/14/2022 4:34 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

Sample Description:

Sample ID : BKL0193
 Sample : BKL0193-SRM

Method : BAN_Method_GPC1

By : Administrator

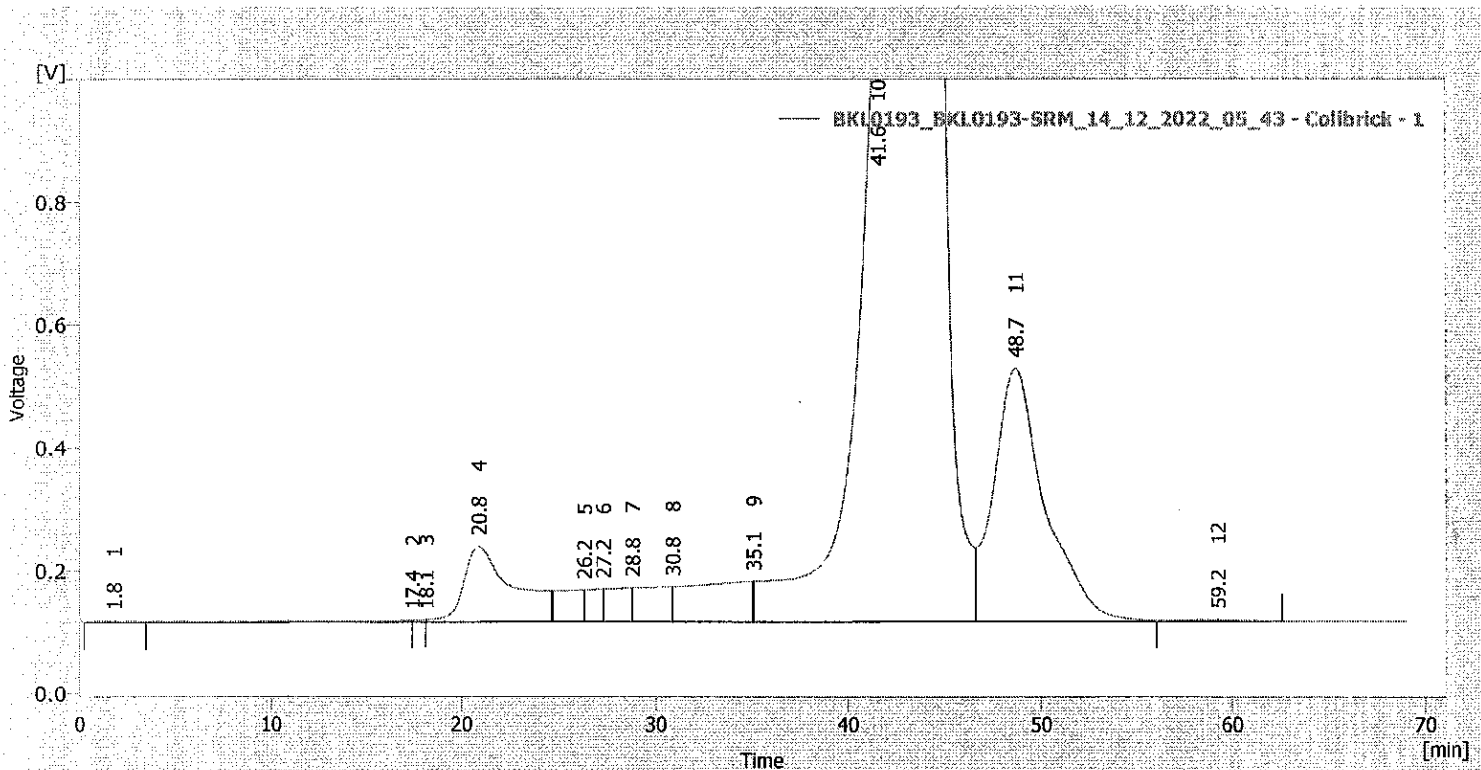
Description : GPC1- BAN

Created : 10/18/2013 6:05 AM

Modified : 12/14/2022 5:43 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

Sample Description:

Sample ID : BKL0193
Sample : 22L0104-01

Method : BAN_Method_GPC1

By : Administrator

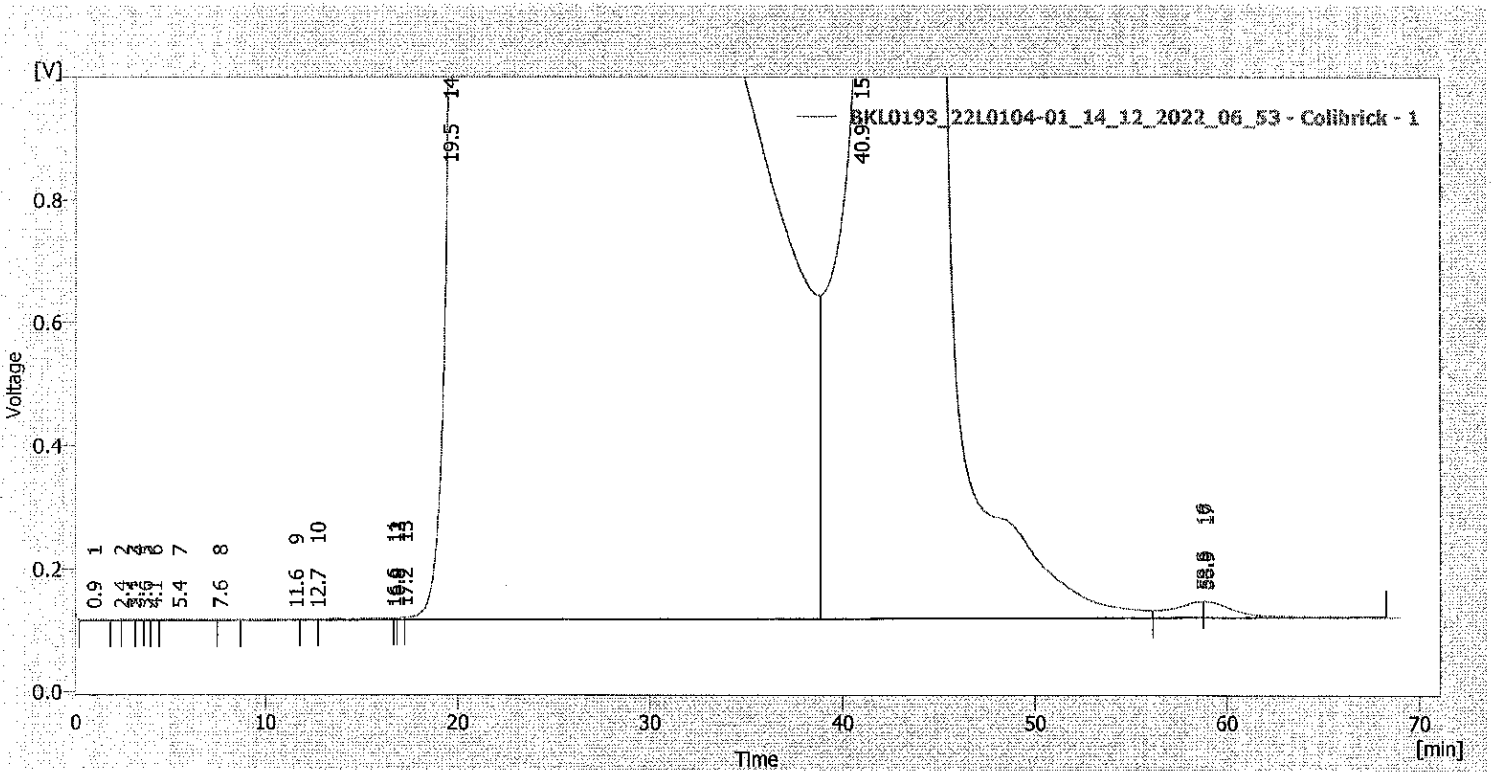
Description : GPC1- BAN

Created : 10/18/2013 6:05 AM

Modified : 12/14/2022 6:53 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

Sample Description:

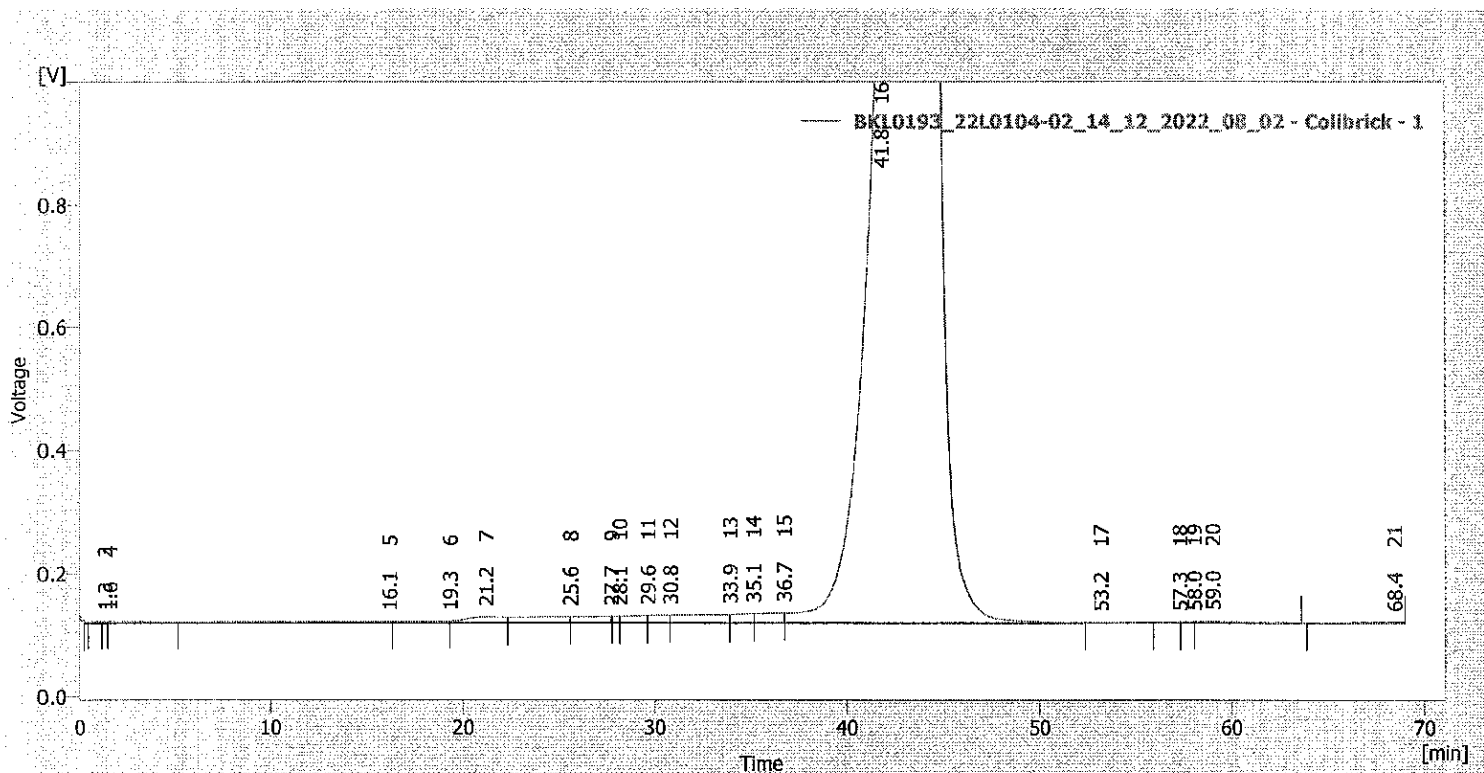
Sample ID : BKL0193
 Sample : 22L0104-02

Method : BAN_Method_GPC1
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM

By : Administrator
 Modified : 12/14/2022 8:02 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1

BAN_Method_GPC1

BKL0193

Sample Description:

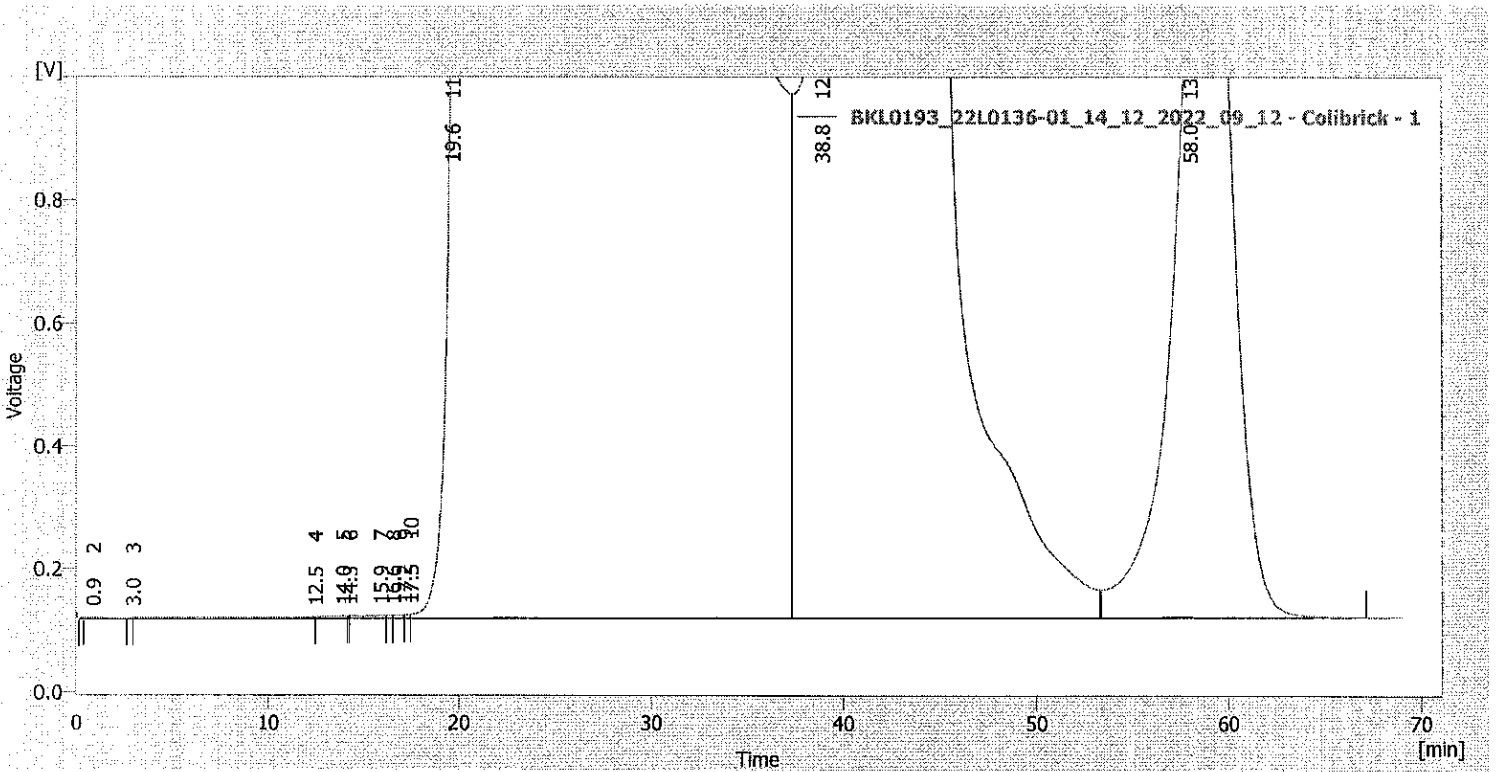
Sample ID : BKL0193
Sample : 22L0136-01

Method : BAN_Method_GPC1
Description : GPC1- BAN
Created : 10/18/2013 6:05 AM

By : Administrator
Modified : 12/14/2022 9:12 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
 BAN_Method_GPC1
 BKL0193

Sample Description:

Sample ID : BKL0193
 Sample : 22L0136-08

Method : BAN_Method_GPC1

By : Administrator

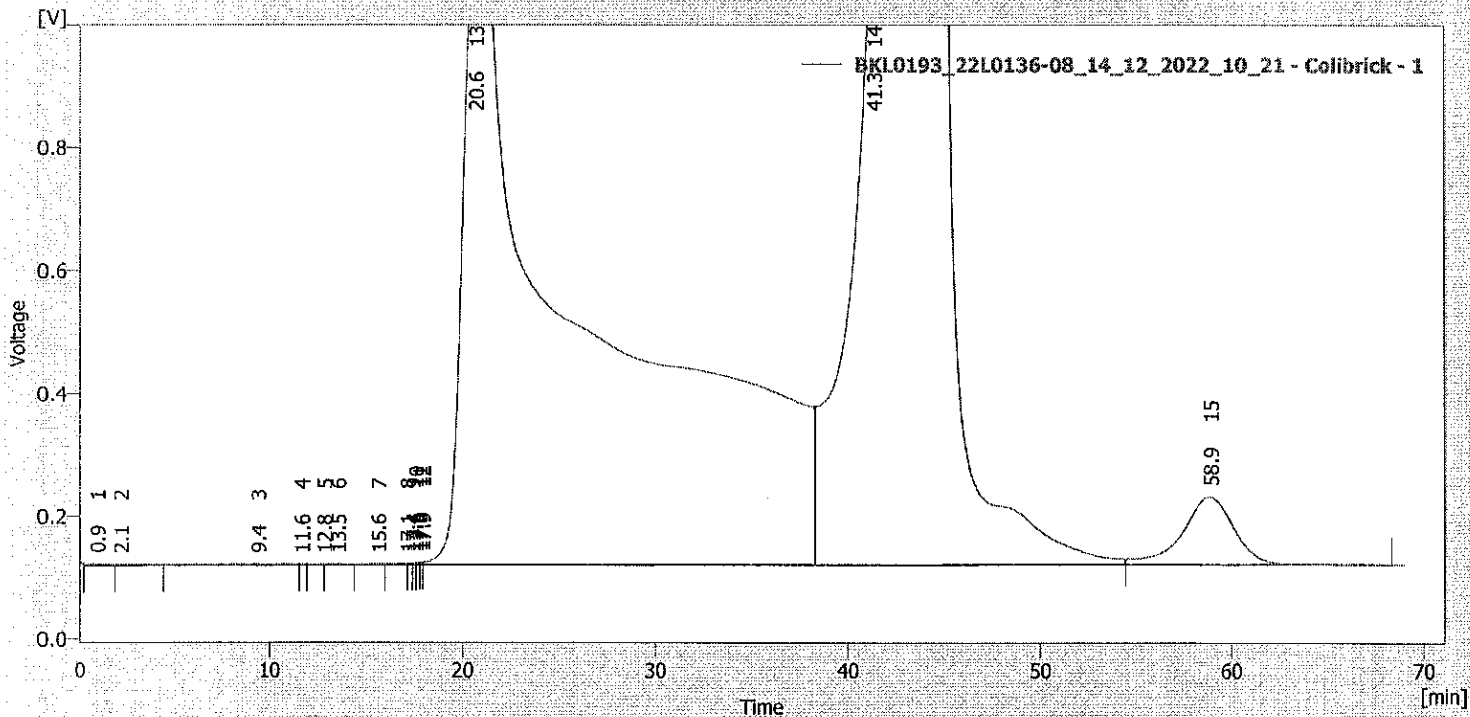
Description : GPC1- BAN

Created : 10/18/2013 6:05 AM

Modified : 12/14/2022 10:21 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Input					Output			
	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
 BAN_Method_GPC1
 BKL0193

Sample Description:

Sample ID : BKL0193
 Sample : 22L0136-09

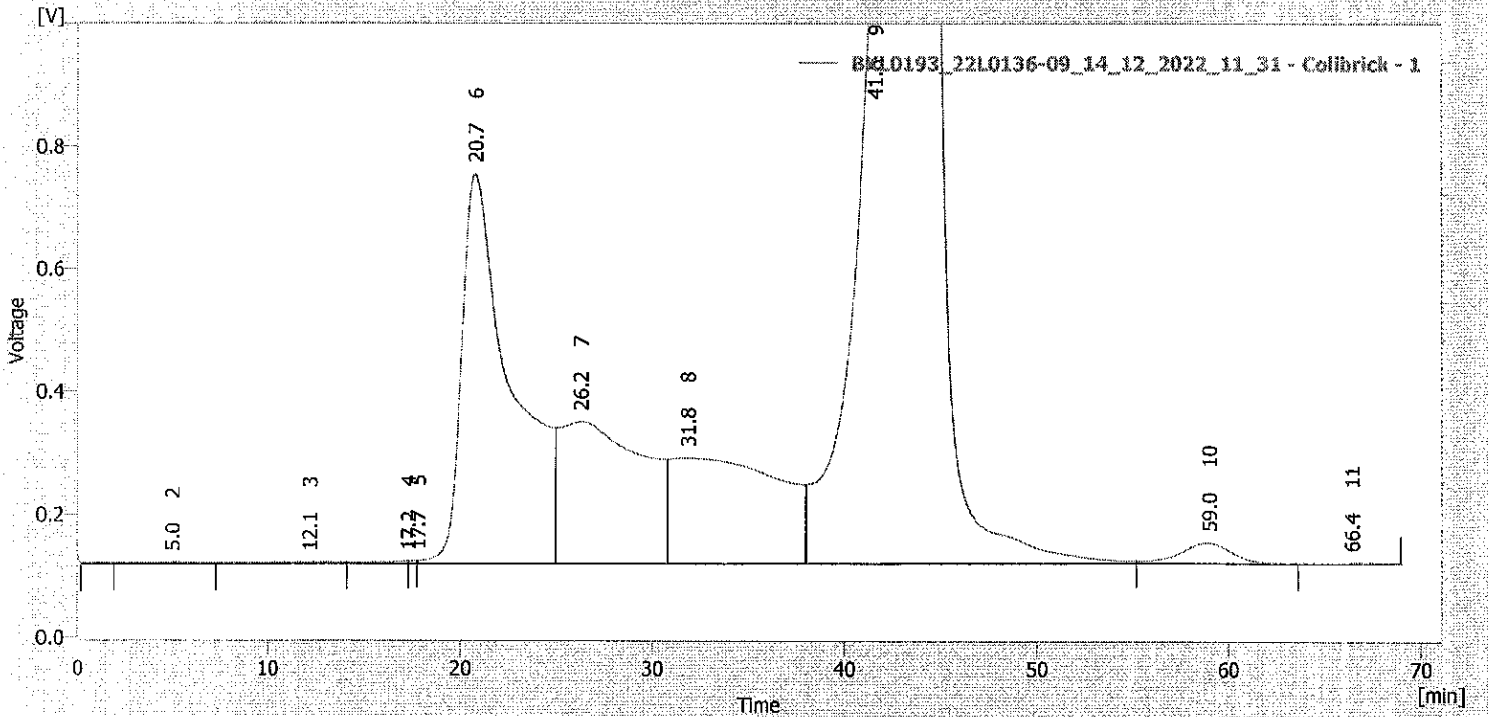
Method : BAN_Method_GPC1
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/14/2022 11:31 AM

Time and Input Events Table (BAN_Method_GPC1)

Name	Input					Output			
	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1

BAN_Method_GPC1
BKL0193

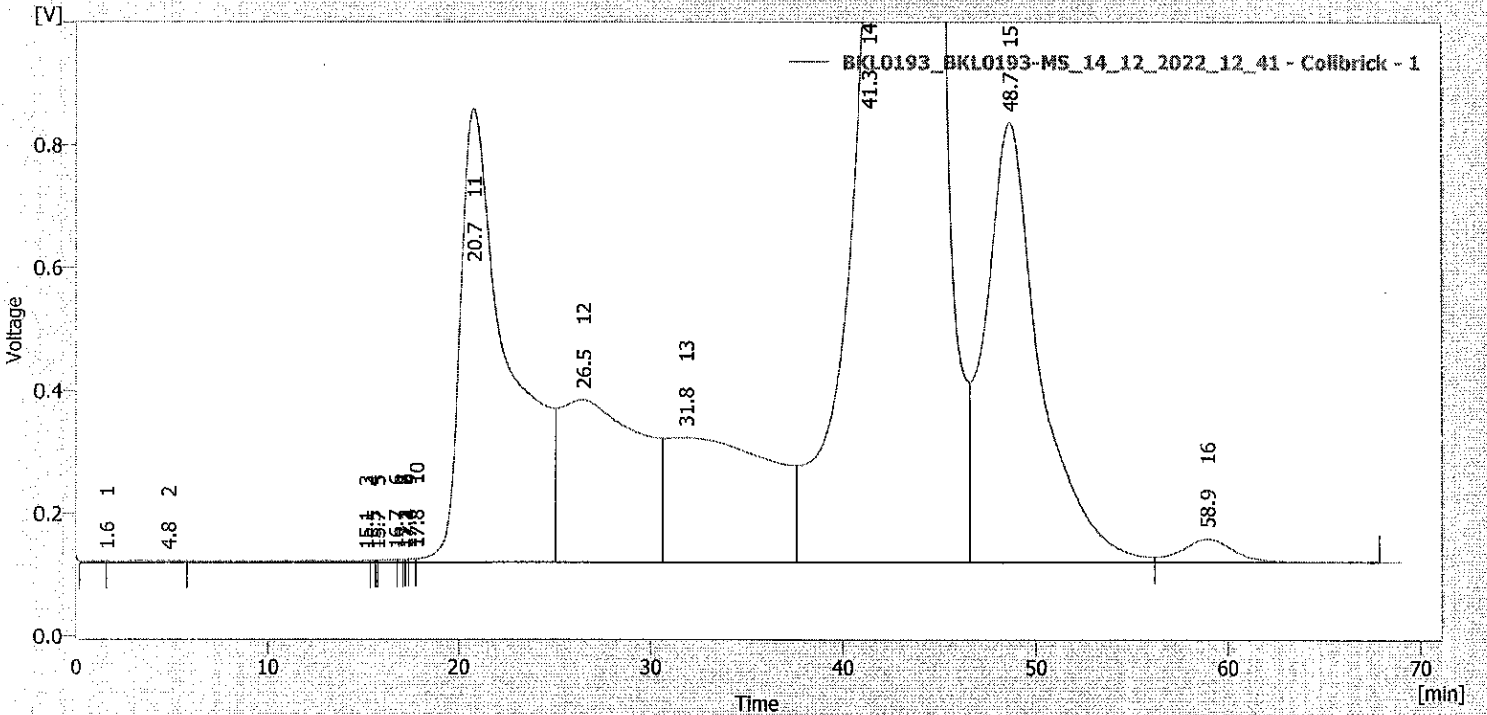
Sample Description:

Sample ID : BKL0193
Sample : BKL0193-MS

Method : BAN_Method_GPC1 By : Administrator
Description : GPC1- BAN
Created : 10/18/2013 6:05 AM Modified : 12/14/2022 12:41 PM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

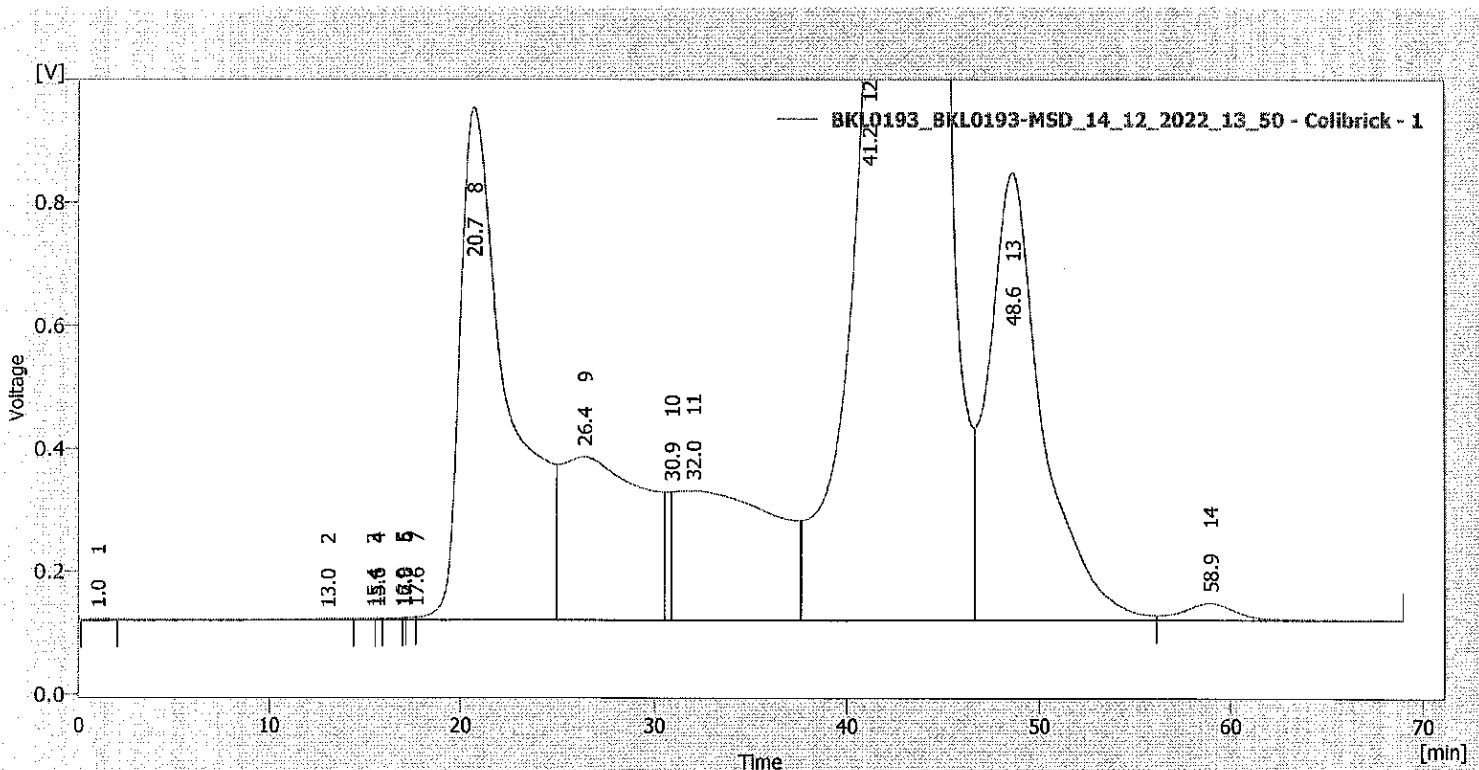
Sample Description:

Sample ID : BKL0193
 Sample : BKL0193-MSD

Method : BAN_Method_GPC1 By : Administrator
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM Modified : 12/14/2022 1:50 PM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
 BAN_Method_GPC1
 BKL0193

Sample Description:

Sample ID : BKL0193
 Sample : 22L0136-10

Method : BAN_Method_GPC1

By : Administrator

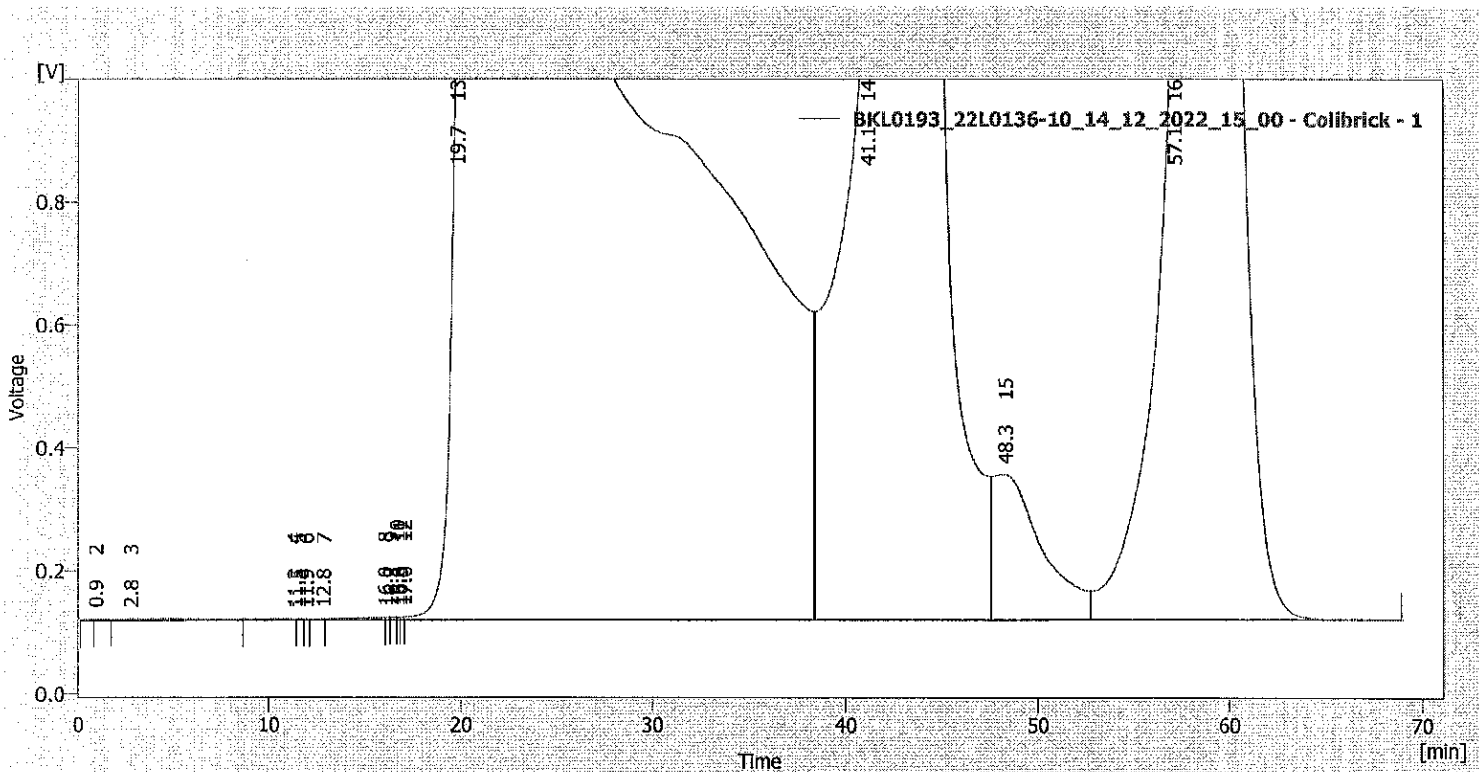
Description : GPC1- BAN

Created : 10/18/2013 6:05 AM

Modified : 12/14/2022 3:00 PM

Time and Input Events Table (BAN_Method_GPC1)

Name	Input					Output			
	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

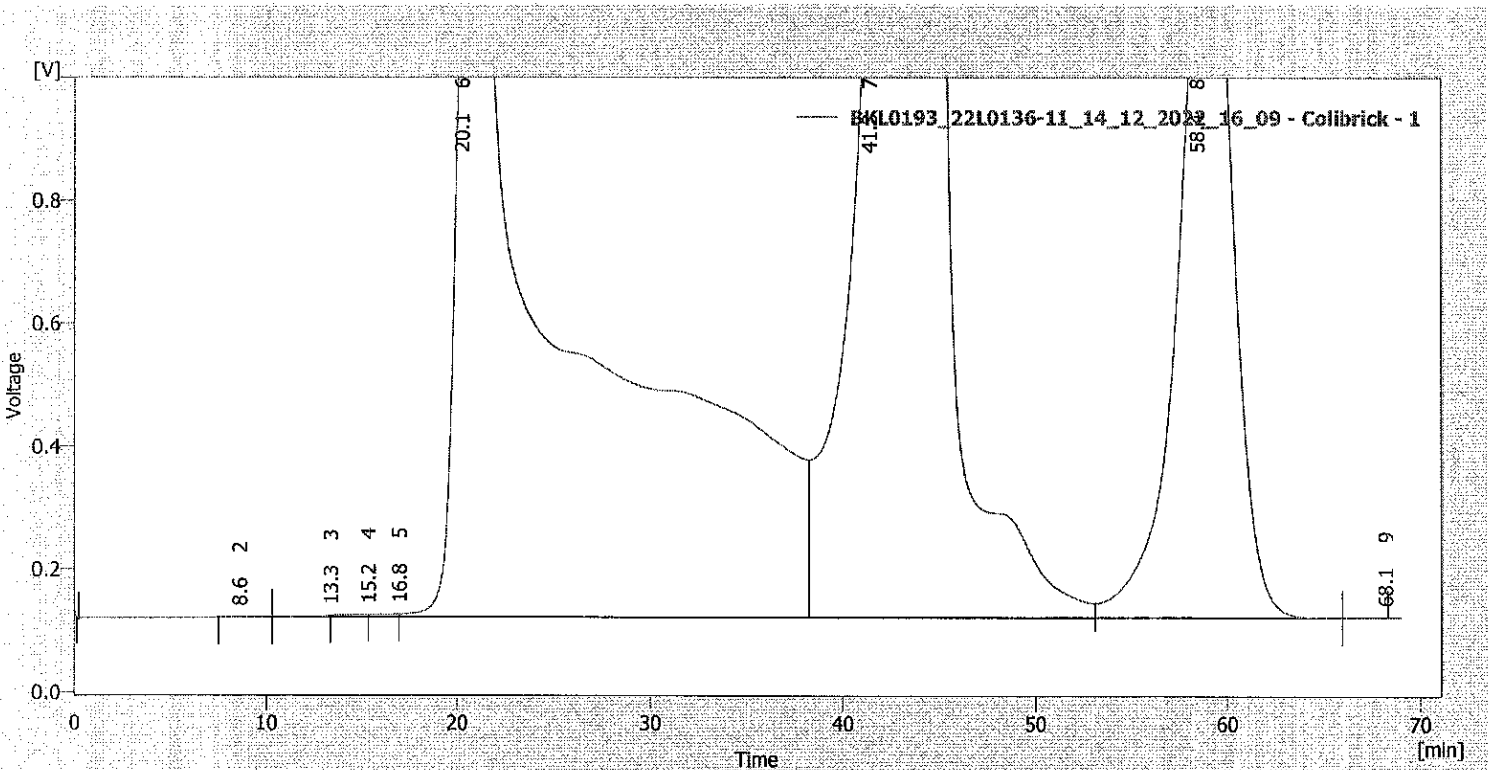
Sample Description:

Sample ID : BKL0193
 Sample : 22L0136-11
 Method : BAN_Method_GPC1
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM

By : Administrator
 Modified : 12/14/2022 4:09 PM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





GPC1
BAN_Method_GPC1
BKL0193

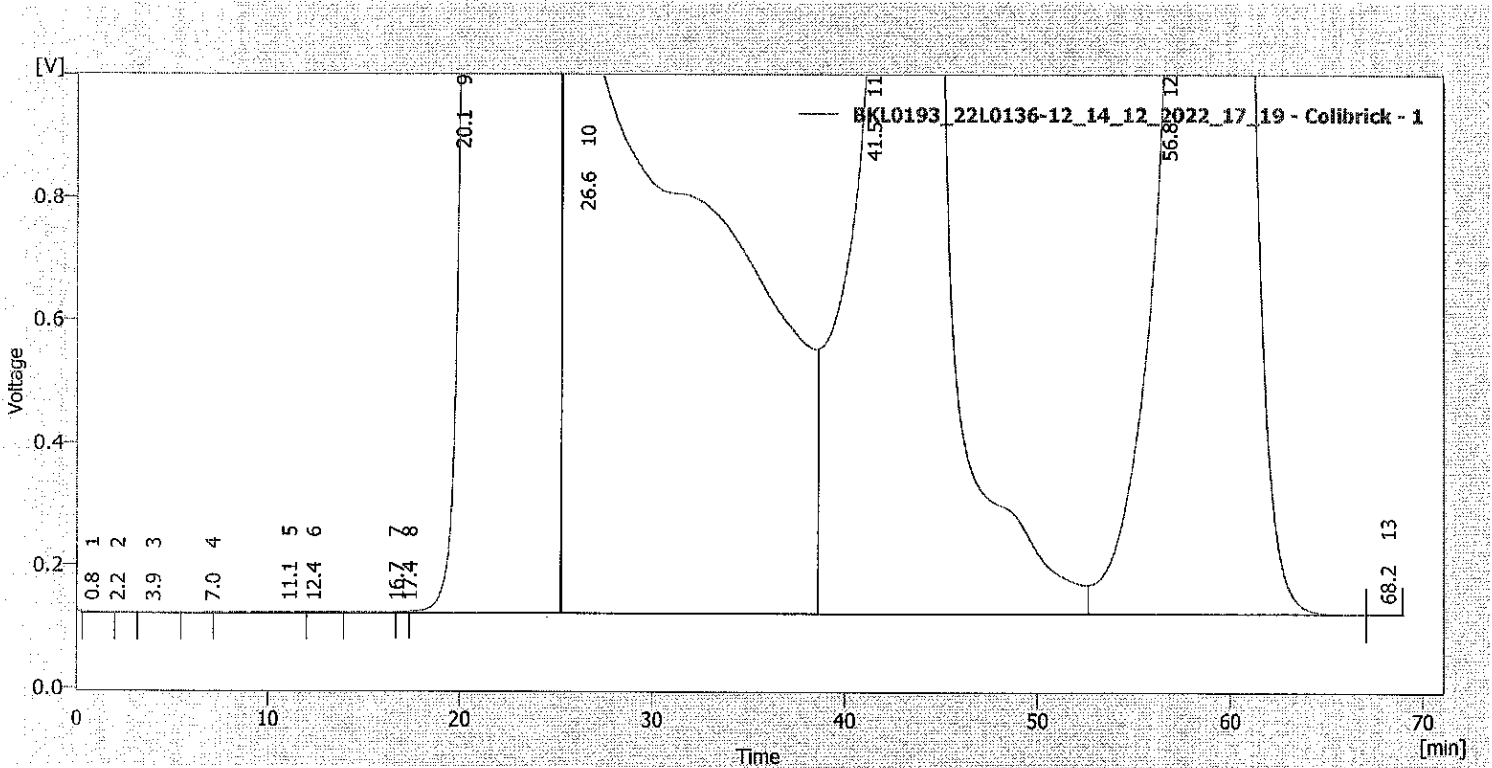
Sample Description:

Sample ID : BKL0193
 Sample : 22L0136-12
 Method : BAN_Method_GPC1
 Description : GPC1- BAN
 Created : 10/18/2013 6:05 AM

By : Administrator
 Modified : 12/14/2022 5:19 PM

Time and Input Events Table (BAN_Method_GPC1)

Name	Type	Input				Output			
		Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	<input type="checkbox"/>
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	<input type="checkbox"/>
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	<input type="checkbox"/>
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	<input type="checkbox"/>





CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0209

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS774	22L0104-02	NT1422123074.D	12/19/2022	
Reference	BKL0193-SRM1	NT1422123072.D	12/19/2022	
LCS	BKL0193-BS1	NT1422123070.D	12/19/2022	
LDW22-SS773	22L0104-01	NT1422123073.D	12/19/2022	
LCS Dup	BKL0193-BSD1	NT1422123071.D	12/19/2022	
Blank	BKL0193-BLK1	NT1422123069.D	12/19/2022	



CLEANUP BENCH SHEET

CKL0209

Matrix: Solid Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1 Check Standard: CKK0217-GPC2 Printed: 12/19/2022 1:24:12PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0104-02	B	LDW22-SS774	B 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-01	A	LDW22-SS823	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-08	A	LDW22-SS786	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-09	A	LDW22-SS766	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-10	A	LDW22-SS771	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-11	A	LDW22-SS771-FD	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
22L0136-12	A	LDW22-SS772	A 02	1	1	VOC (20ug/kg solid or 0.2ug/L low H ₂	12/19/2022	ZH	
BKL0193-BLK1	-	Blank	-	1	1	-	12/19/2022	ZH	
BKL0193-BS1	-	LCS	-	1	1	-	12/19/2022	ZH	
BKL0193-BSD1	-	LCS Dup	-	1	1	-	12/19/2022	ZH	
BKL0193-MS1	-	Matrix Spike	-	1	1	-	12/19/2022	ZH	
BKL0193-MSD1	-	Matrix Spike Dup	-	1	1	-	12/19/2022	ZH	
BKL0193-SRM1	-	Reference	-	1	1	-	12/19/2022	ZH	



Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BKL0193-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>12/09/22 14:39</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BKL0193</u>	Sequence:	<u>SKL0355</u>
Instrument:	<u>NT14</u>	Column:	<u>ZB-5MS</u>
		File ID:	<u>NT1422123069.D</u>
		Analyzed:	<u>01/01/23 01:18</u>
		Initial/Final:	<u>10 g / 1 mL</u>
		Calibration:	<u>FL00066</u>
		Cleanups:	<u>GPC</u>

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Phenol-d5	750.00	485	64.6	29 - 120	
2-Chlorophenol-d4	750.00	508	67.7	31 - 120	
1,2-Dichlorobenzene-d4	500.00	335	67.0	32 - 120	
Nitrobenzene-d5	500.00	391	78.3	30 - 120	

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123069.D

Date: 01-JAN-2023 01:18

Client ID:

Sample Info: BKL0193-BLK1

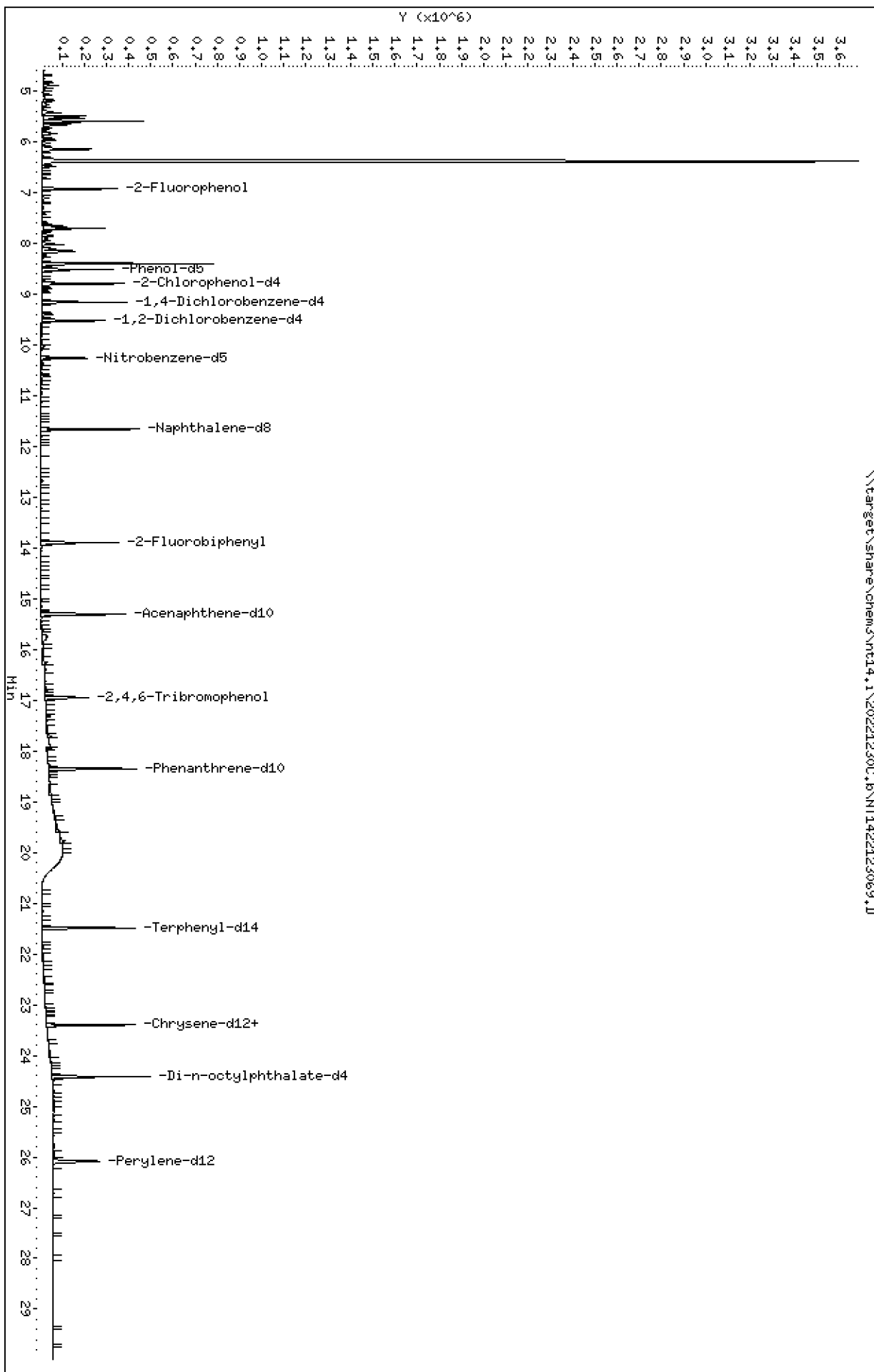
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123069.D



Date : 01-JAN-2023 01:18

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BLK1

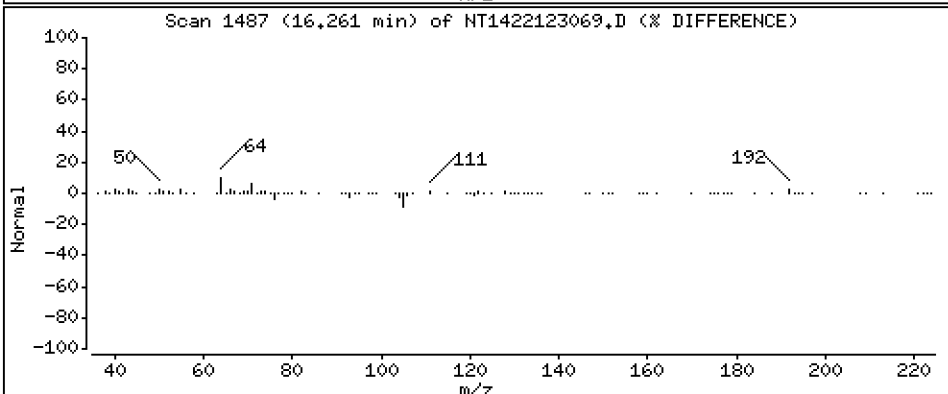
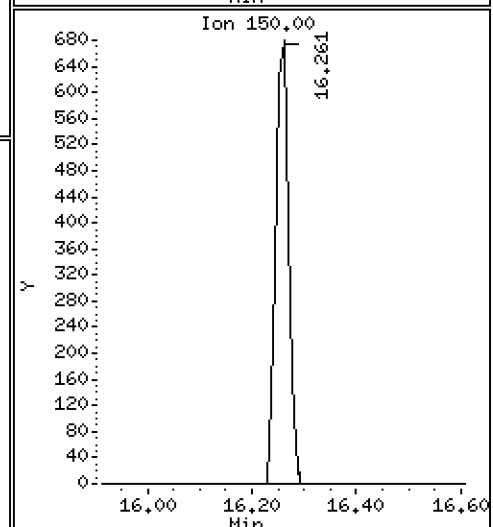
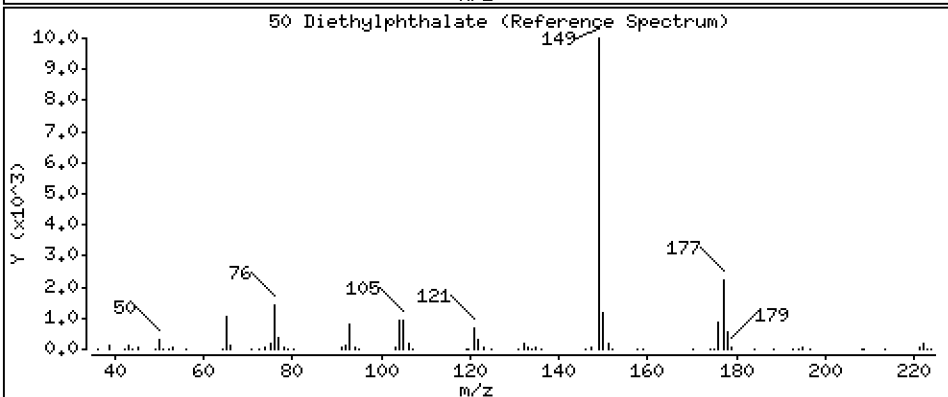
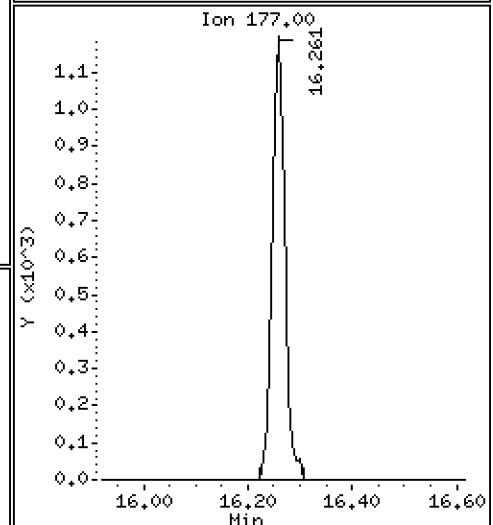
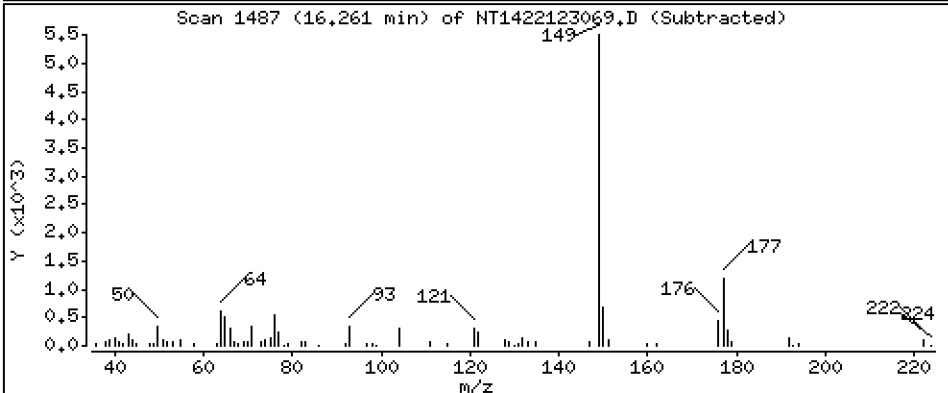
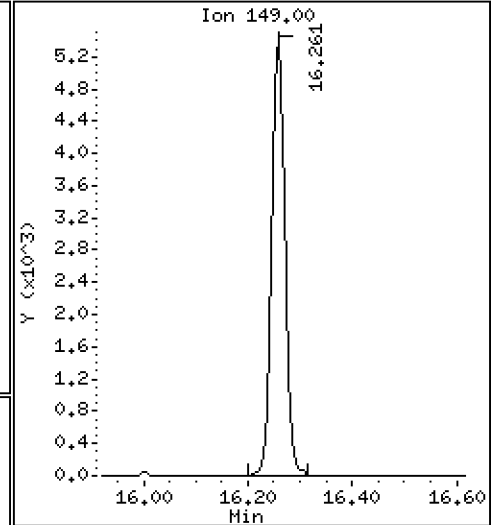
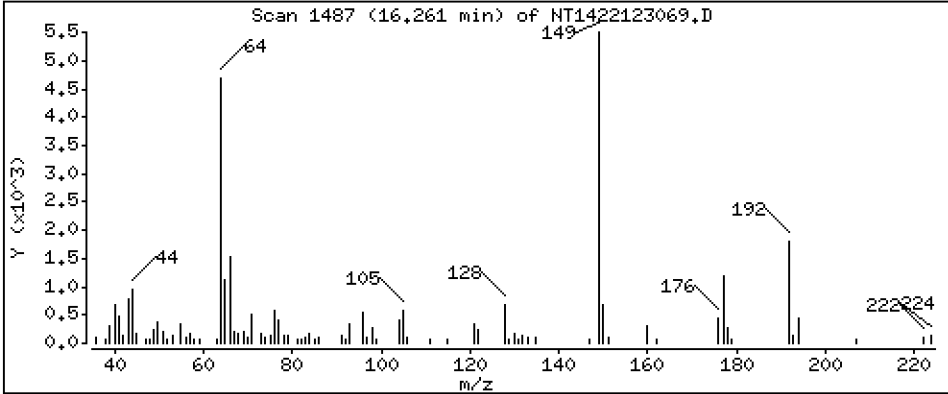
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,1657 ug/mL



Date : 01-JAN-2023 01:18

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BLK1

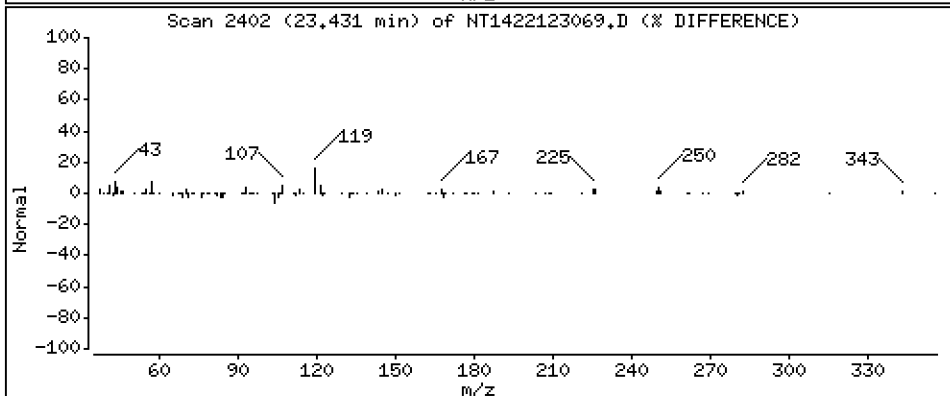
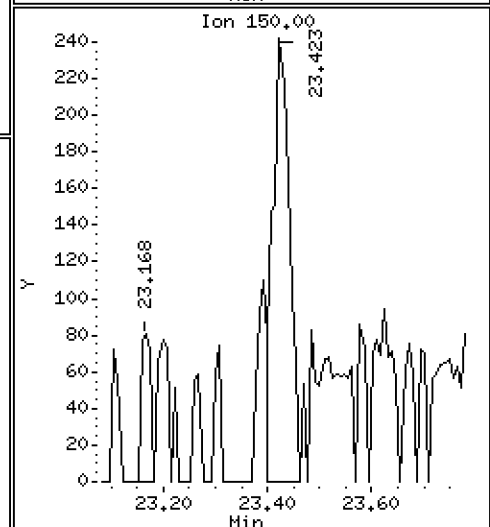
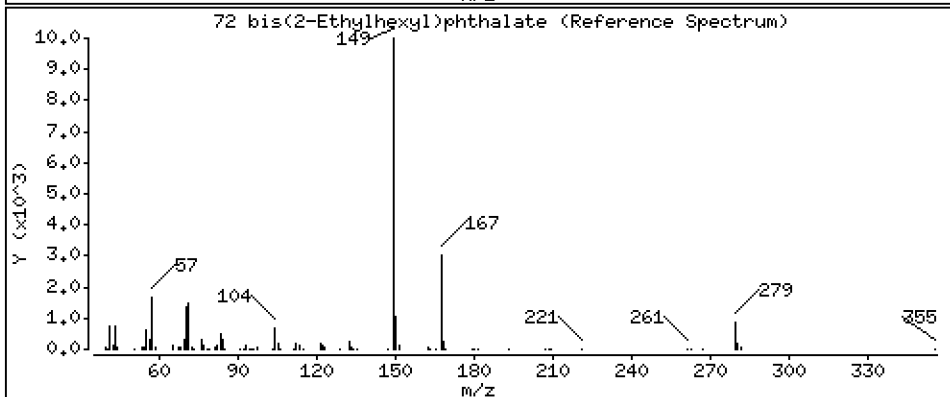
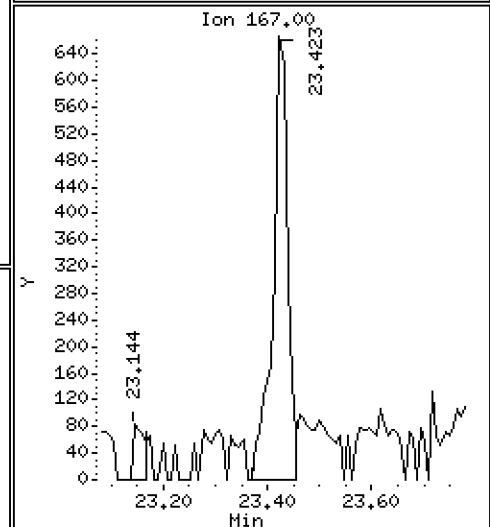
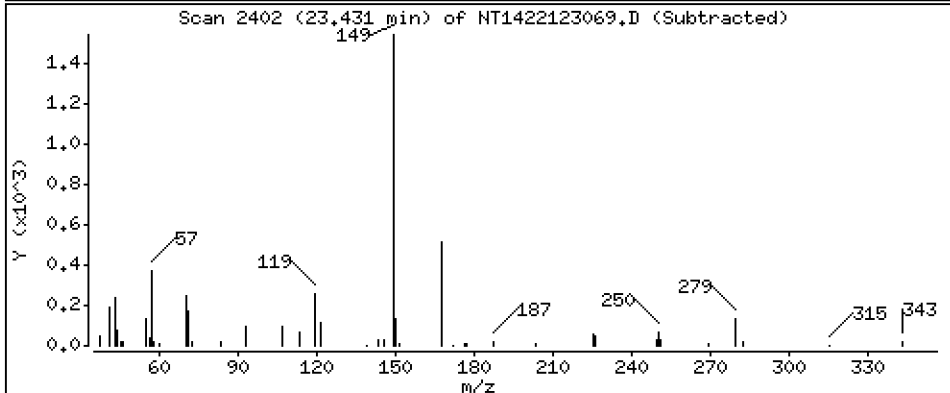
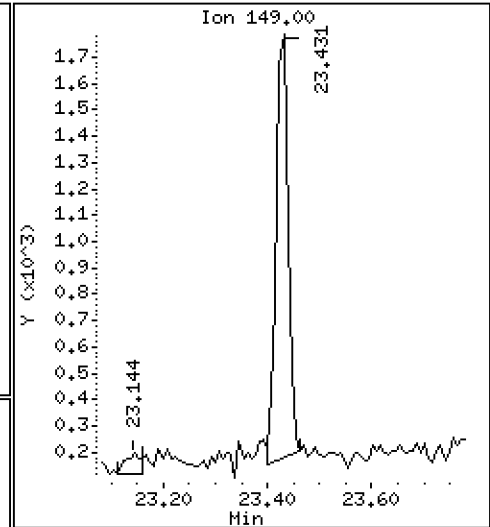
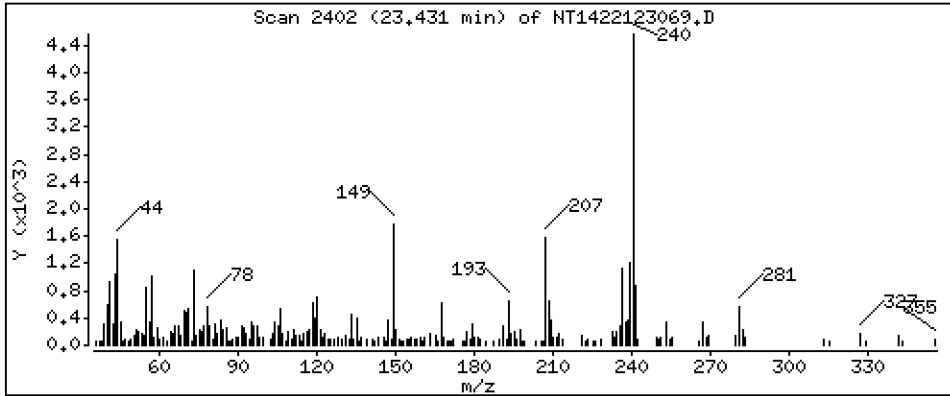
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,06443 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123069.D
 Lab Smp Id: BKL0193-BLK1
 Inj Date : 01-JAN-2023 01:18 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : BKL0193-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 40
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
\$ 1 2-Fluorophenol	112		6.927	6.919	(0.756)	137979	4.67560	4.676
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	176736	4.84612	4.846
3 Phenol	94		Compound Not Detected.					
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	155559	5.07886	5.079
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	92113	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	70080	3.34766	3.348
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.880)	108857	3.91418	3.914
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	329342	4.00000	
28 Naphthalene	128		Compound Not Detected.					
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.901	13.901	(0.908)	209255	3.76324	3.763
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.302	15.310	(1.000)	165382	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149		16.260	16.268	(1.063)	10503	0.16568	0.1657
49 Fluorene	166							
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169							
\$ 55 2,4,6-Tribromophenol	330		16.955	16.955	(1.108)	34015	4.29438	4.294
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.353	18.361	(1.000)	271589	4.00000	
60 Phenanthrene	178							
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202							
65 Pyrene	202							
\$ 66 Terphenyl-d14	244		21.487	21.495	(0.918)	216228	4.42201	4.422
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		23.399	23.399	(1.000)	203703	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.430	(0.959)	2442	0.06443	0.06443
* 134 Di-n-octylphthalate-d4	153		24.421	24.421	(1.000)	341255	4.00000	
73 Di-n-octylphthalate	149							
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252							
* 77 Perylene-d12	264		26.086	26.086	(1.000)	177895	4.00000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
91 Aniline	93							
93 Benzidine	184							
103 Pyridine	79							
105 1-methylnaphthalene	142							
111 Azobenzene (1,2-DP-Hydrazine)	77							

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123069.D Calibration Time: 23:30
 Lab Smp Id: BKL0193-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	92113	-33.61
27 Naphthalene-d8	501723	250862	1003446	329342	-34.36
42 Acenaphthene-d10	275234	137617	550468	165382	-39.91
59 Phenanthrene-d10	440085	220043	880170	271589	-38.29
69 Chrysene-d12	384795	192398	769590	203703	-47.06
134 Di-n-octylphthala	674530	337265	1349060	341255	-49.41
77 Perylene-d12	336665	168333	673330	177895	-47.16

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123069.D

Lab ID: BKL0193-BLK1
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 01:18

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Solid</u>	Analyzed:	<u>01/01/23 01:53</u>
Batch:	<u>BKL0193</u>	Laboratory ID:	<u>BKL0193-BS1</u>
Preparation:	<u>EPA 3546 (Microwave)</u>	Sequence Name:	<u>LCS</u>
Initial/Final:	<u>10 g / 1 mL</u>		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
4-Methylphenol	500	311		62.3	29 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
4-Methylphenol	500	334		66.8	6.96	30	29 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123070.D

Date: 01-JAN-2023 01:53

Client ID:

Sample Info: BKL0193-BS1

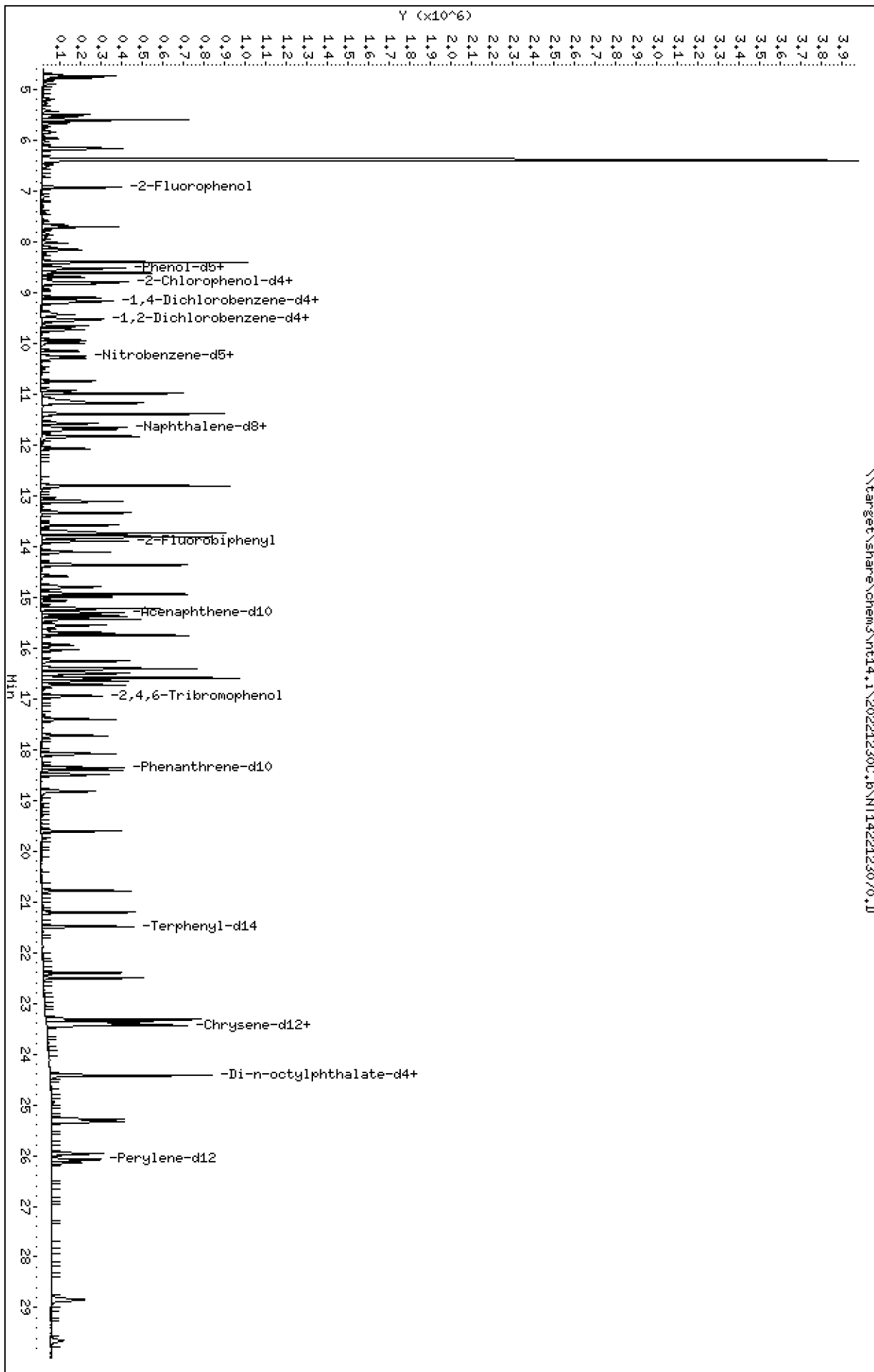
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123070.D



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

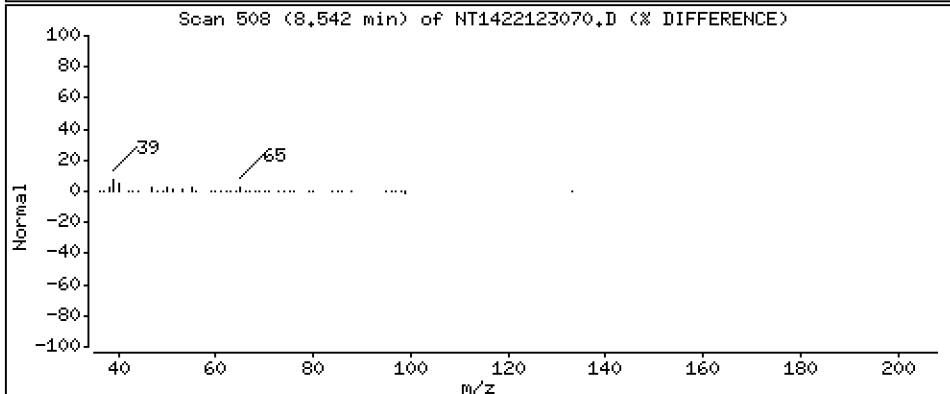
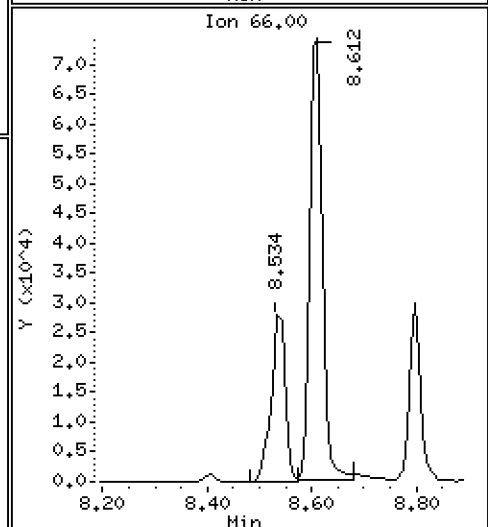
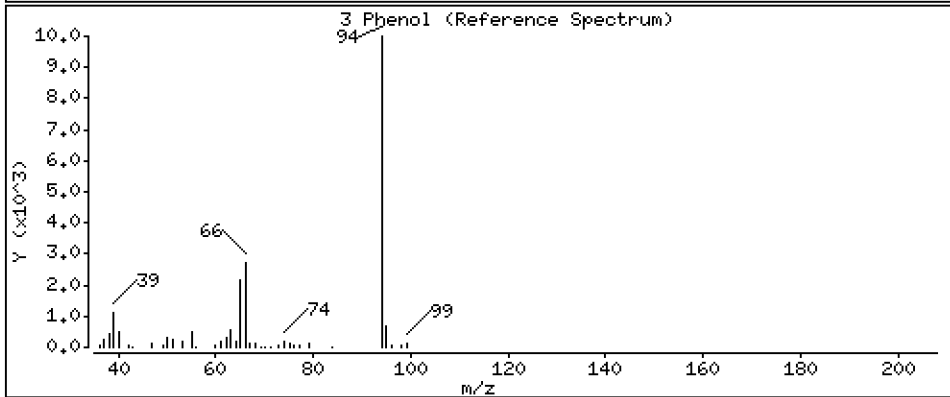
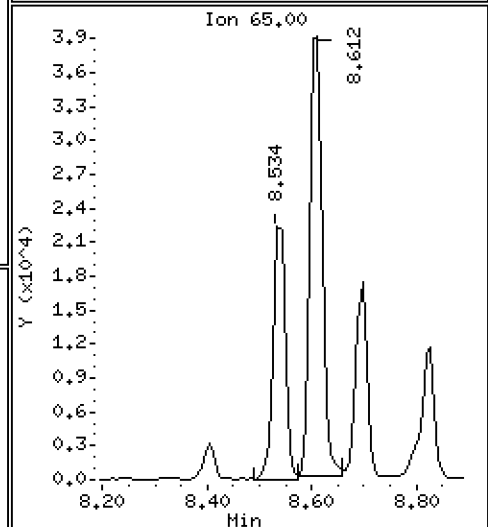
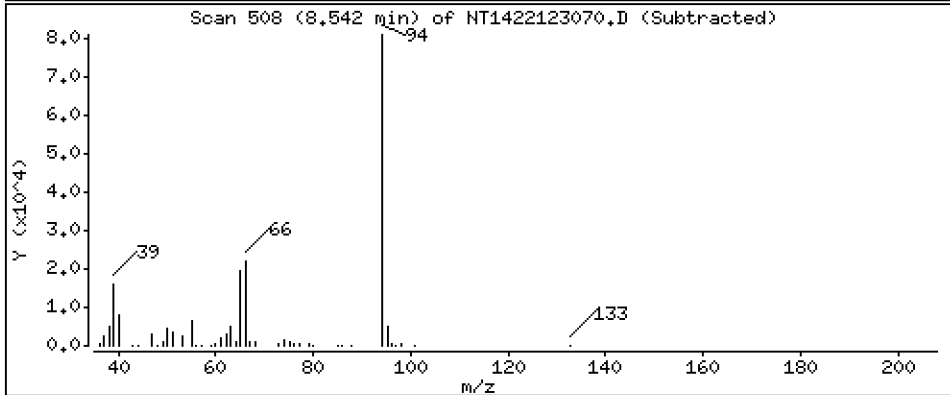
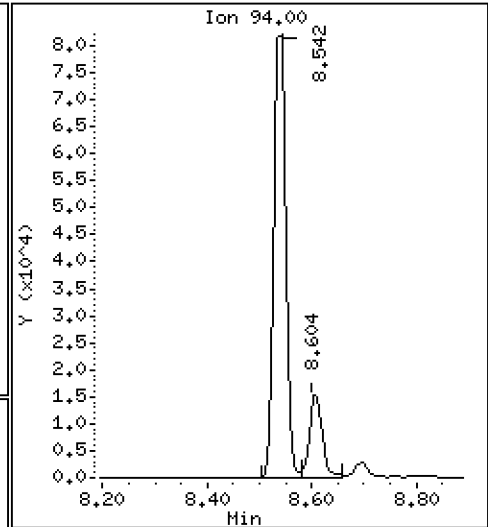
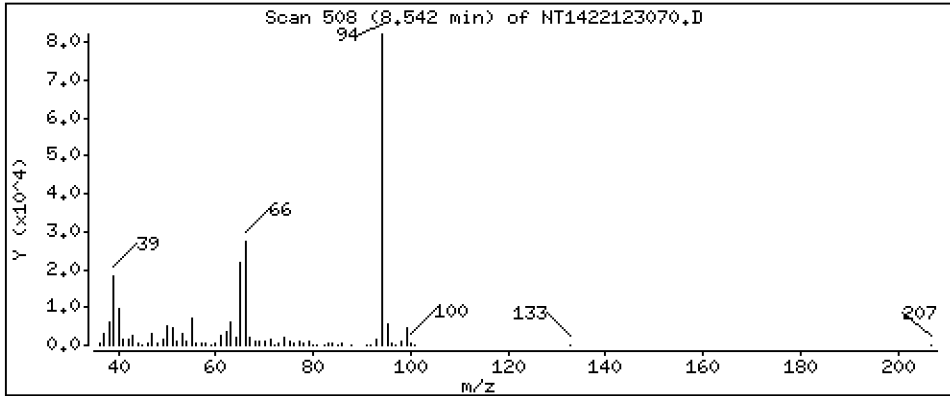
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,177 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

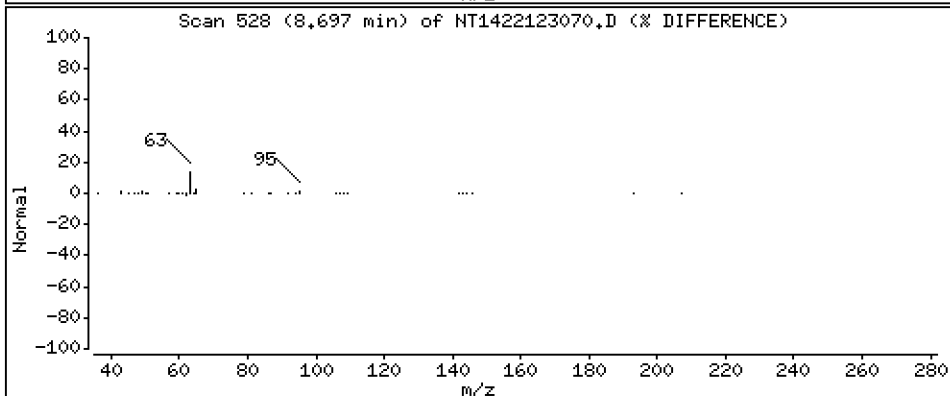
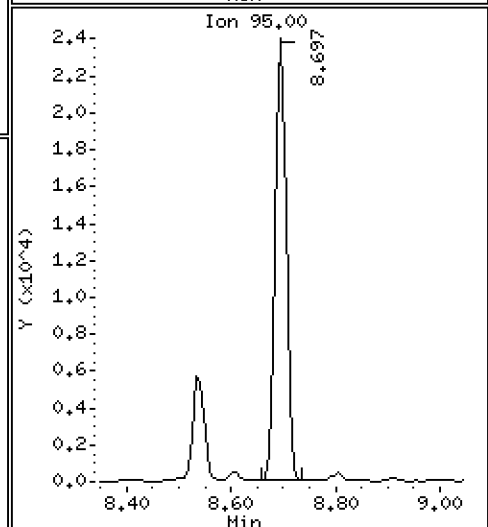
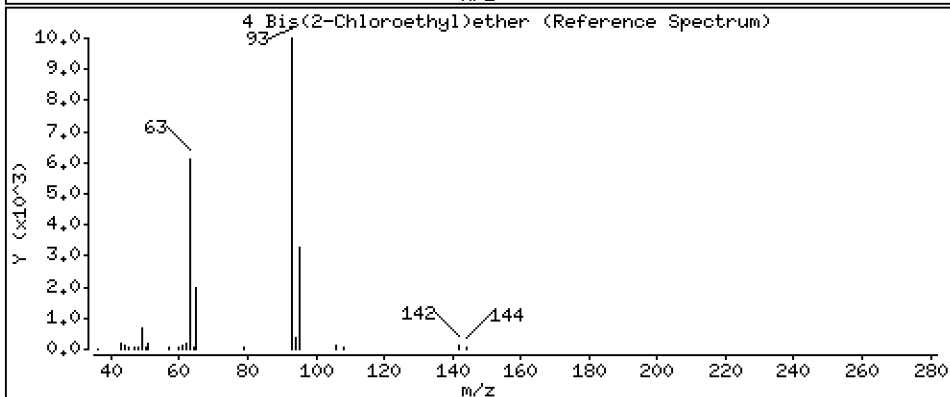
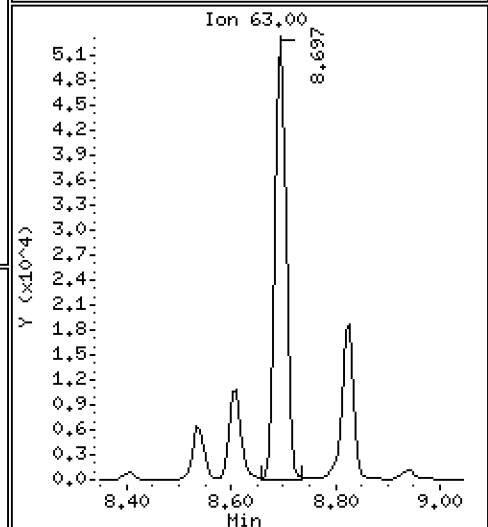
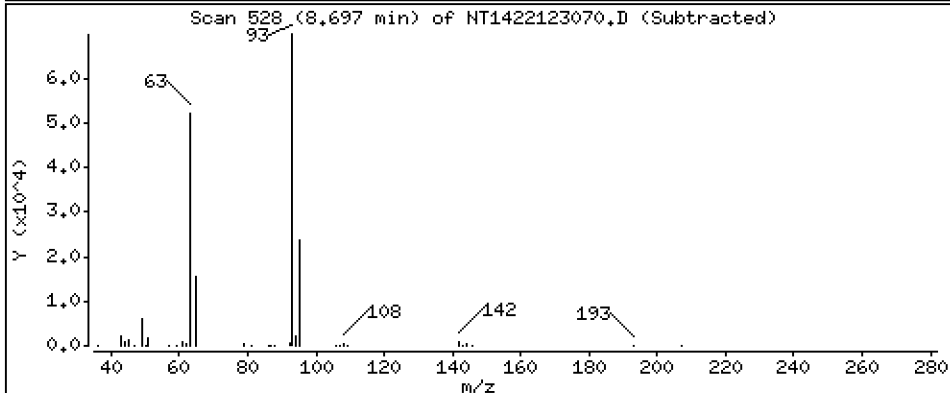
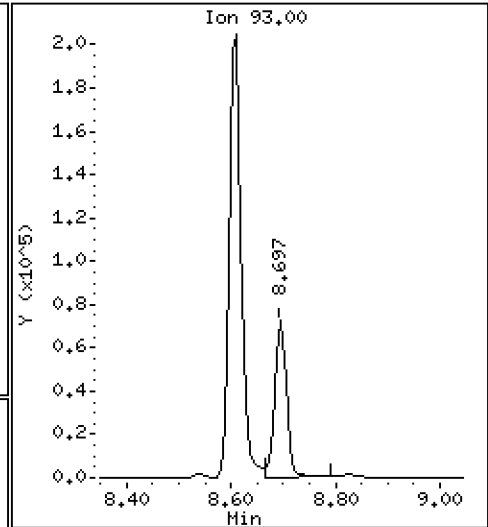
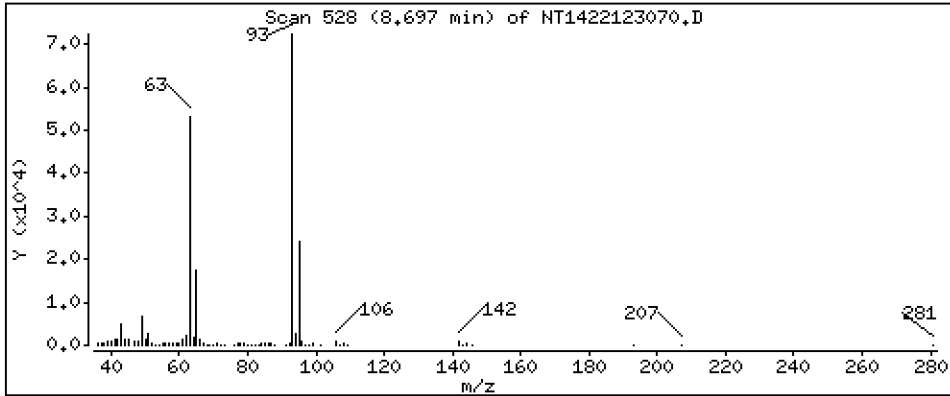
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 3,980 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

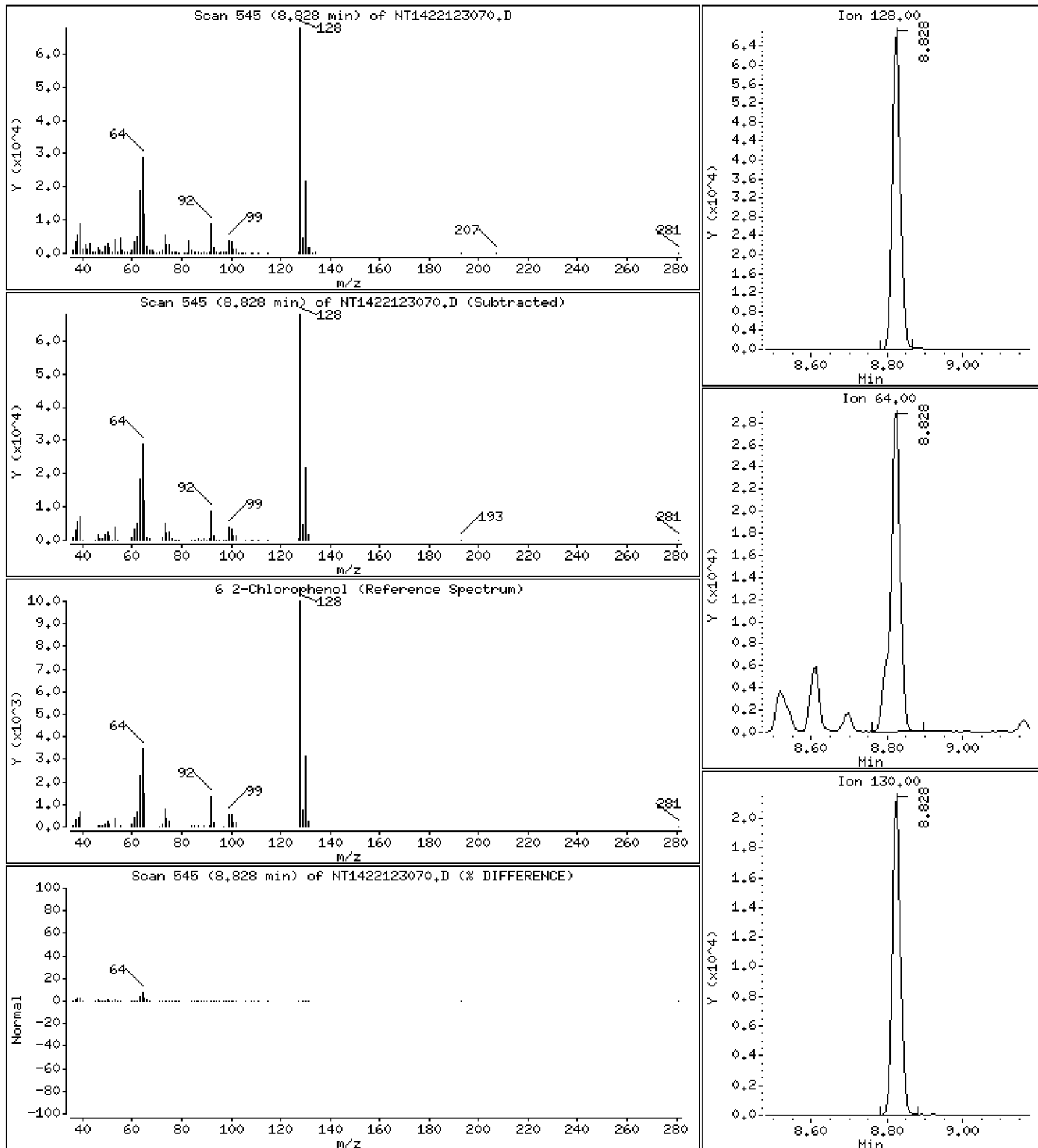
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,187 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

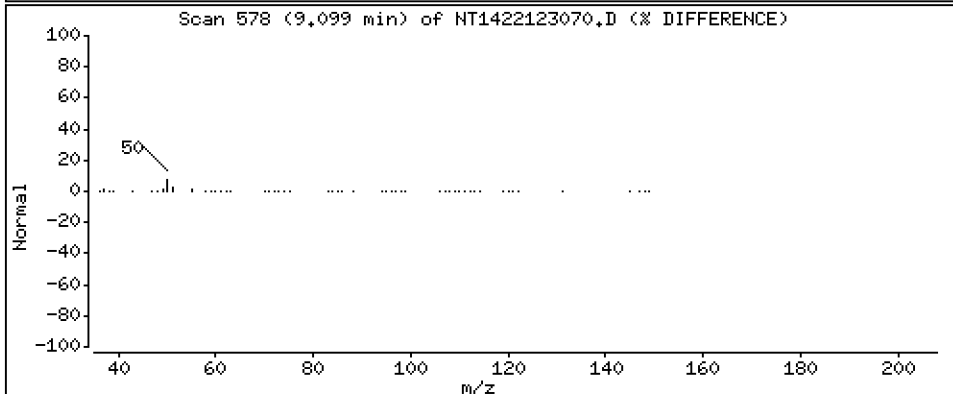
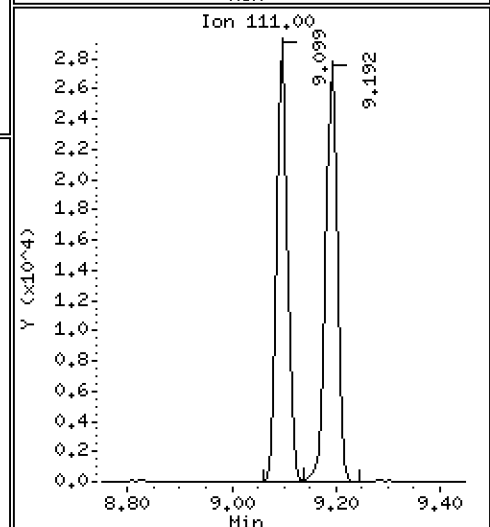
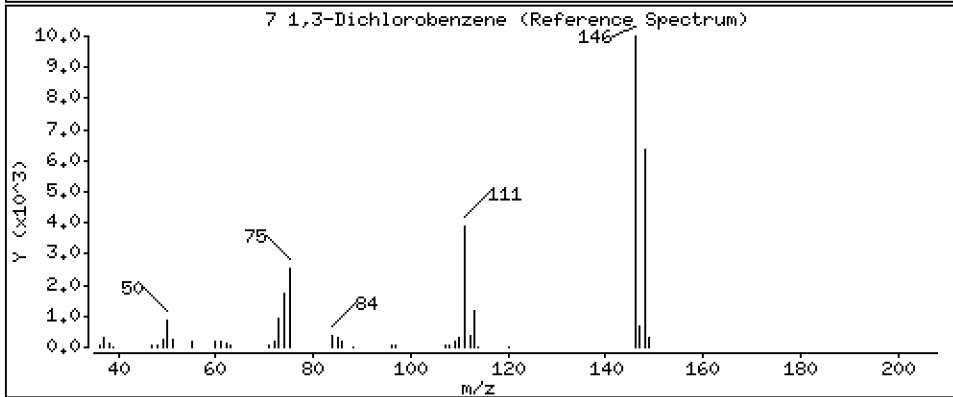
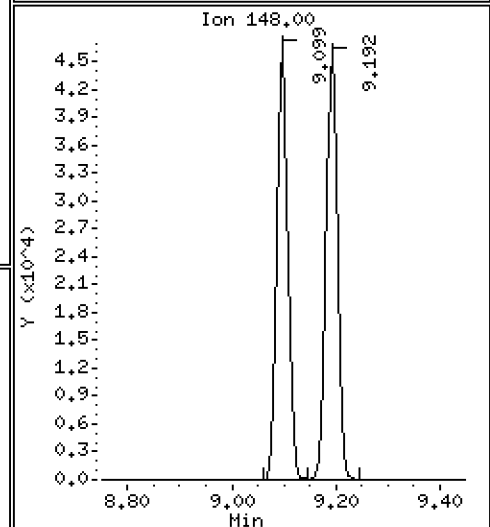
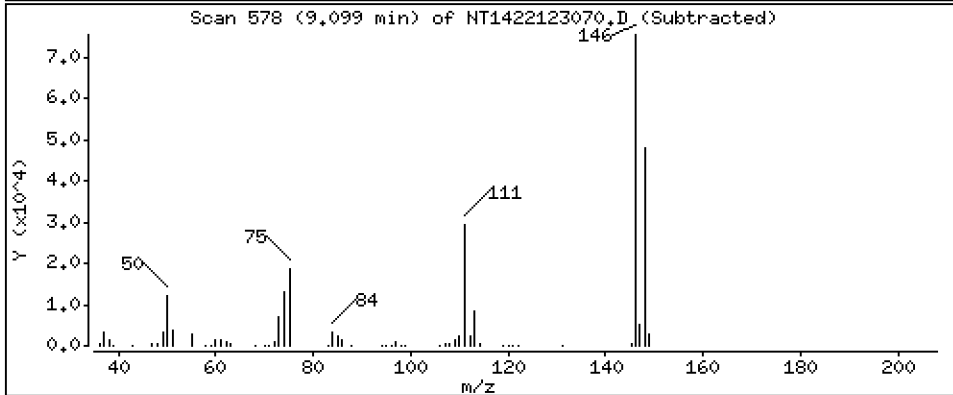
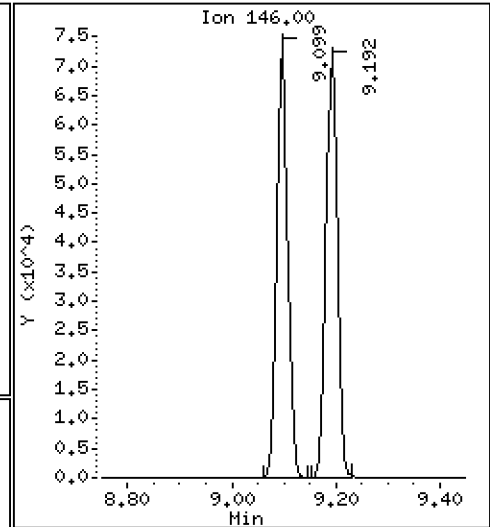
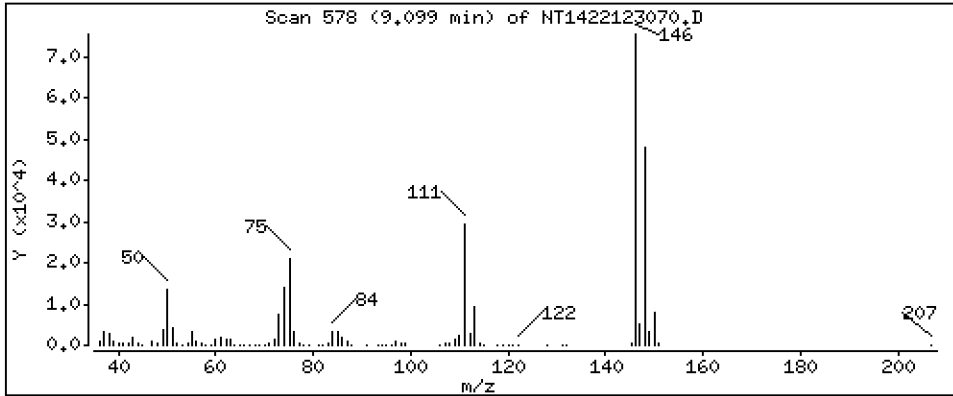
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,236 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

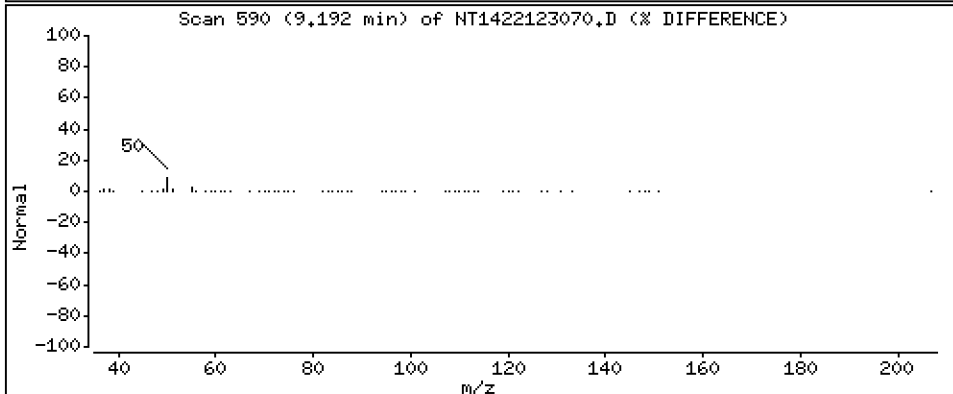
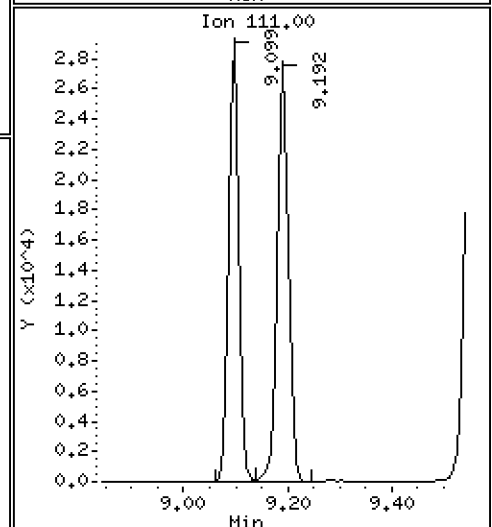
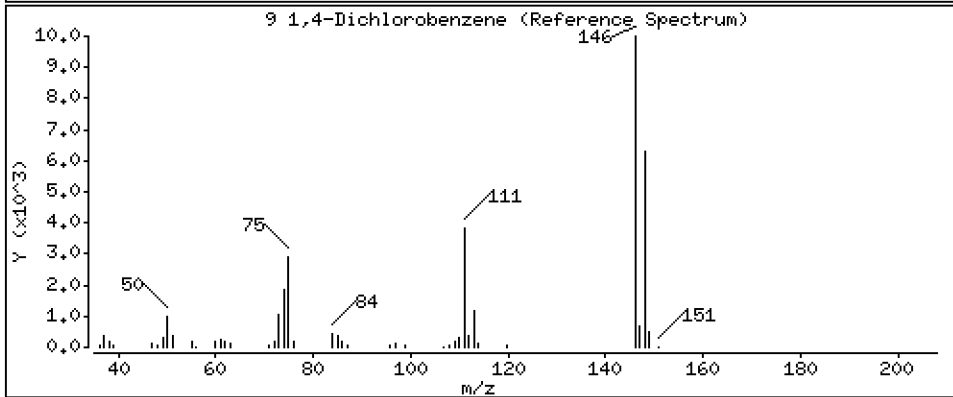
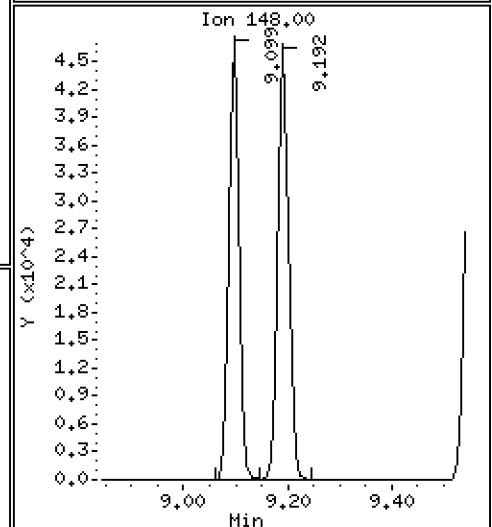
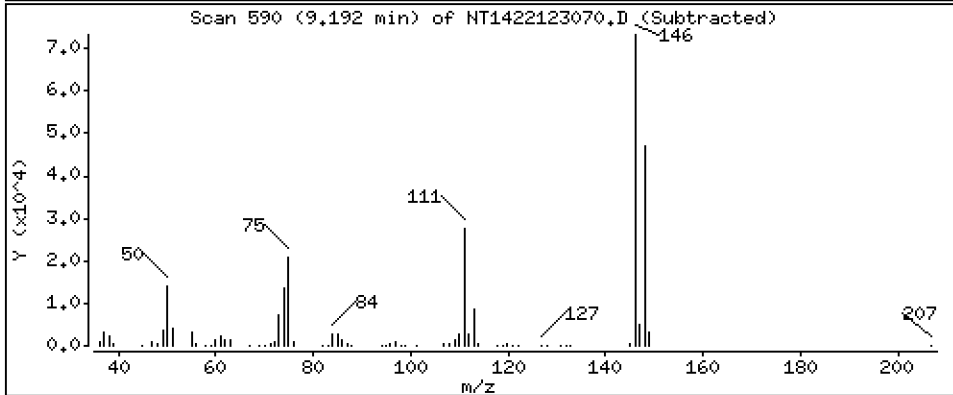
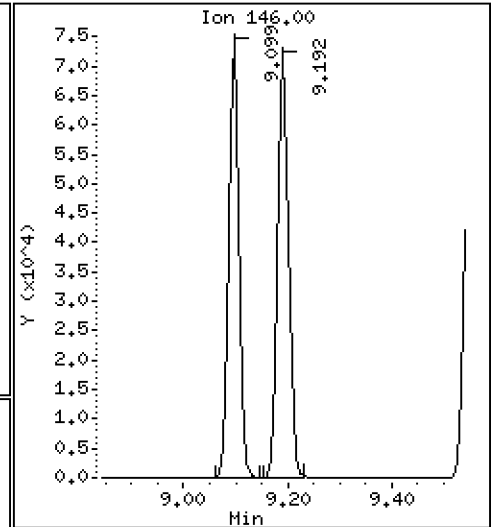
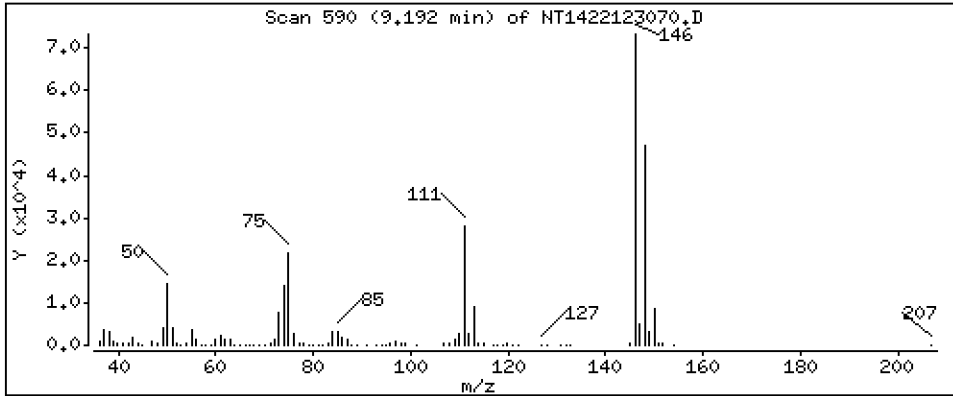
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,330 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

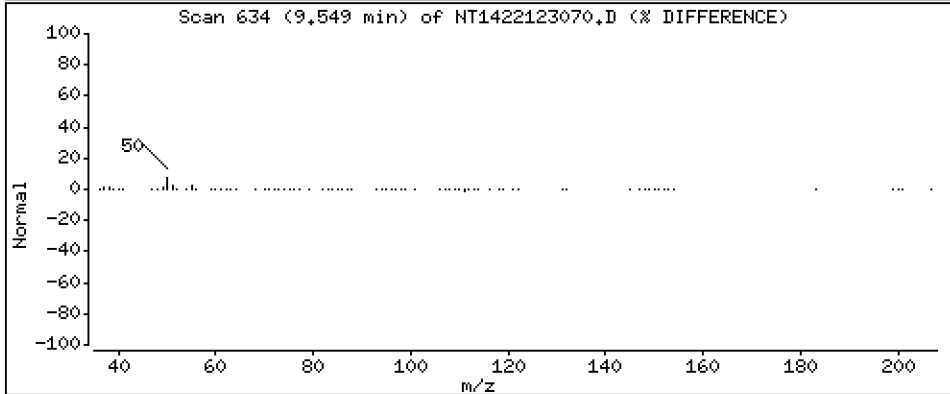
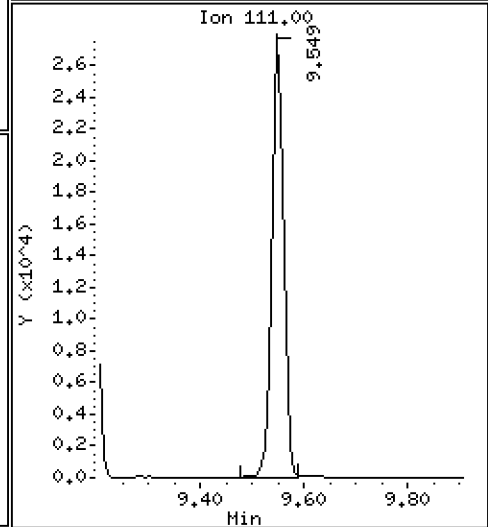
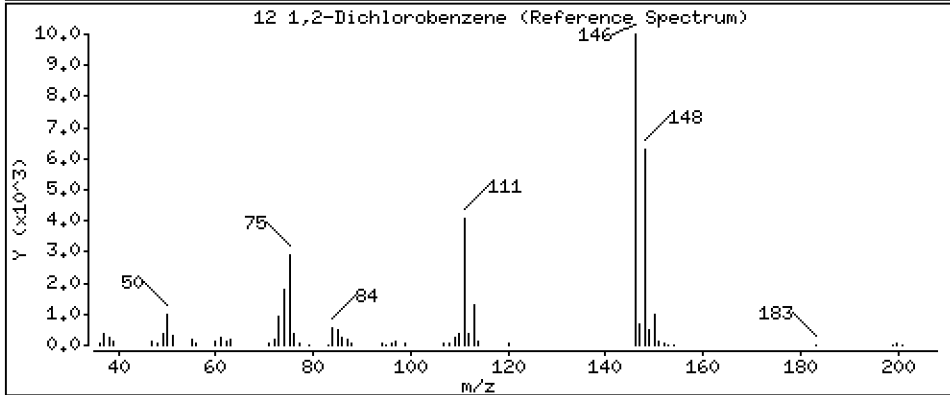
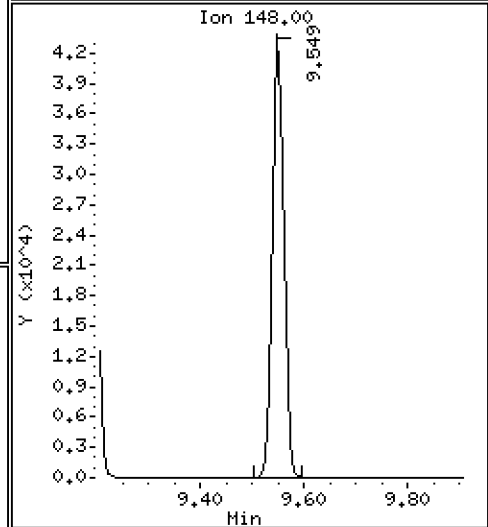
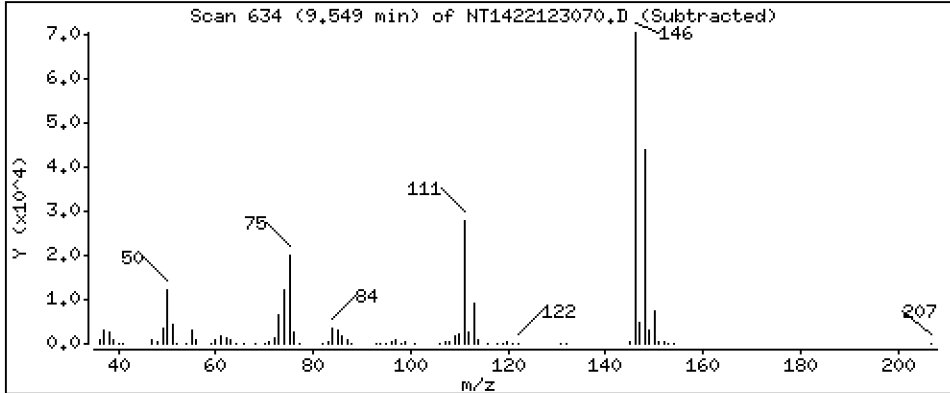
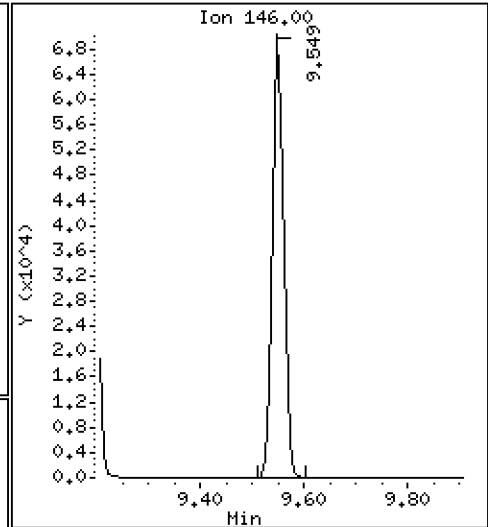
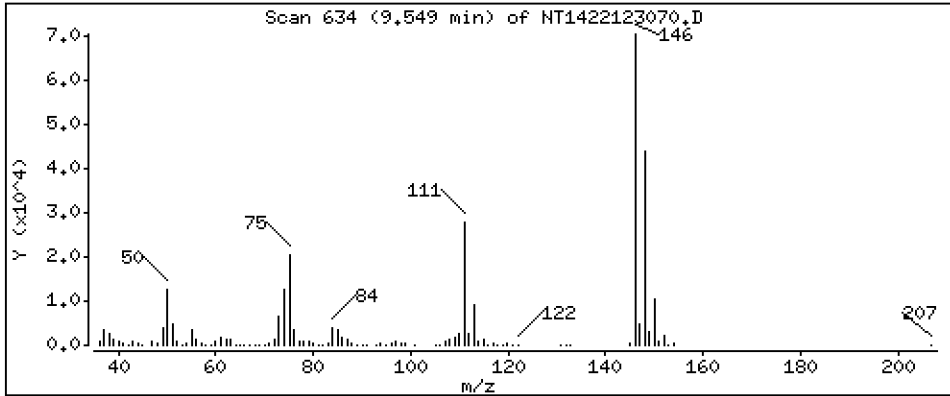
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,351 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

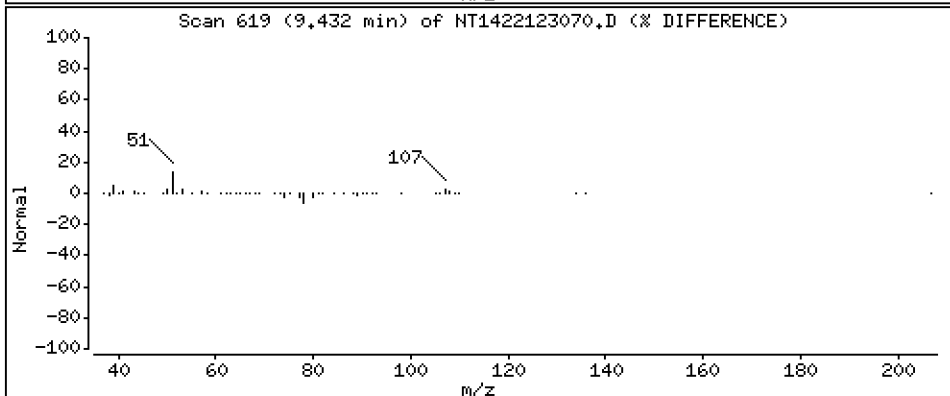
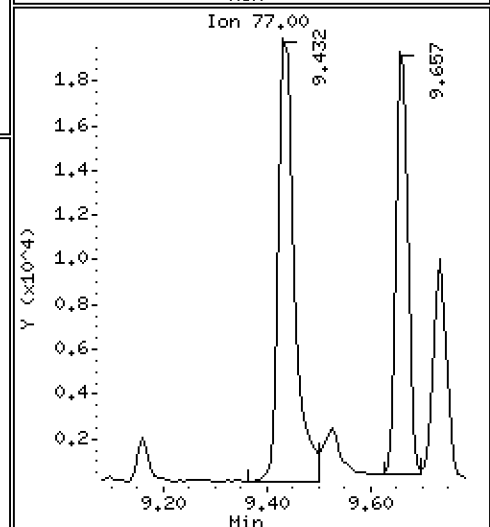
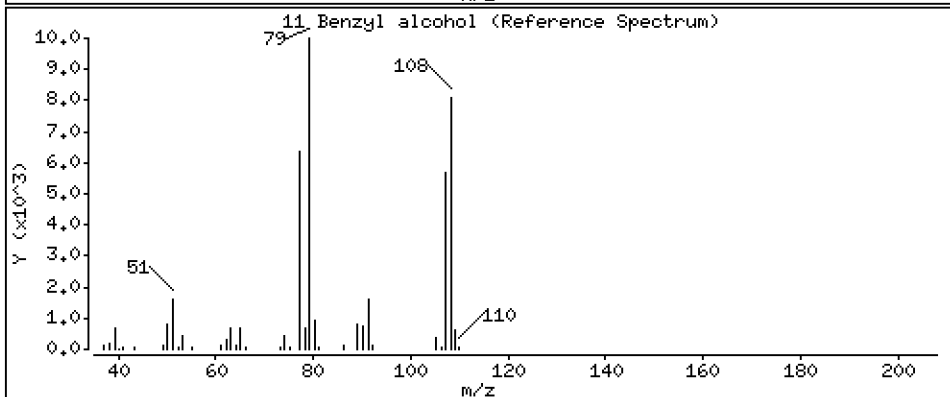
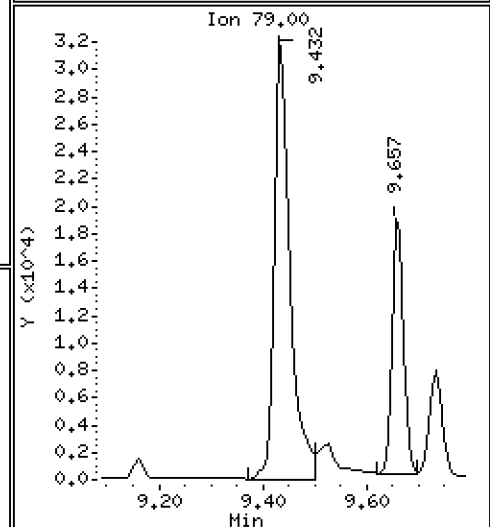
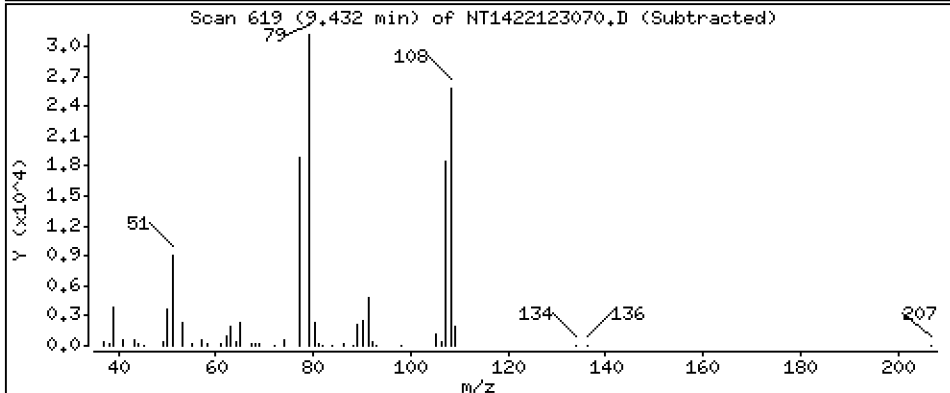
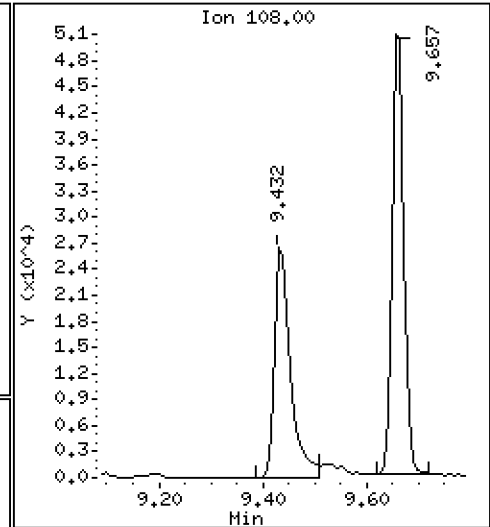
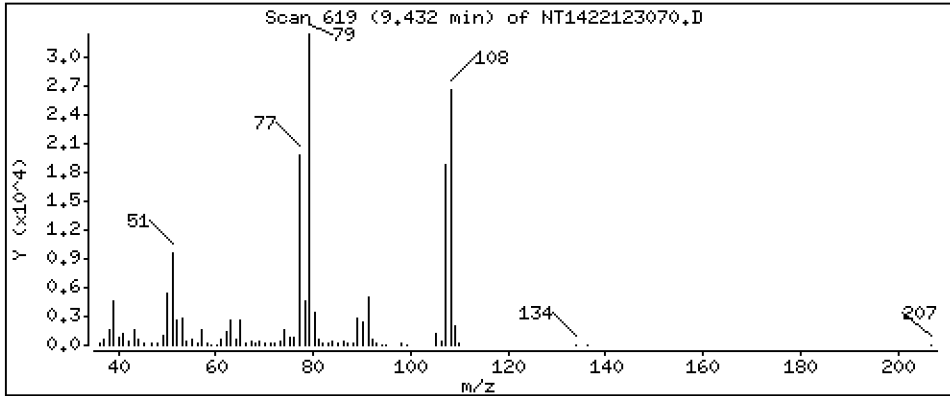
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 3,248 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

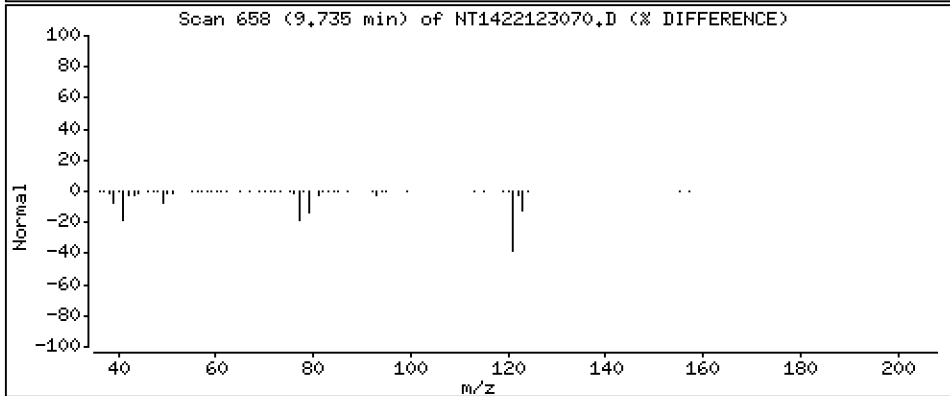
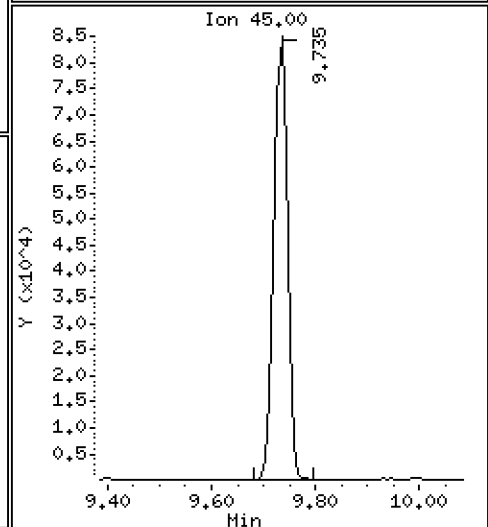
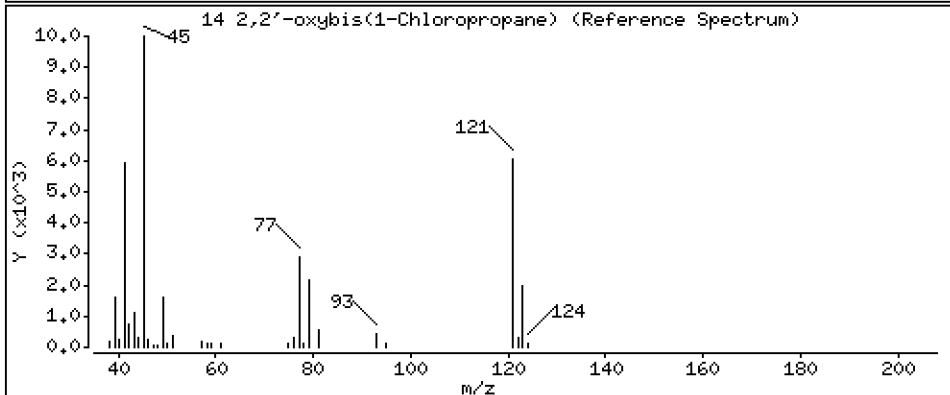
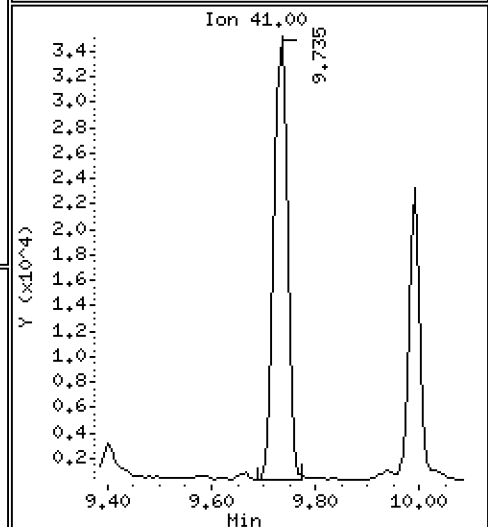
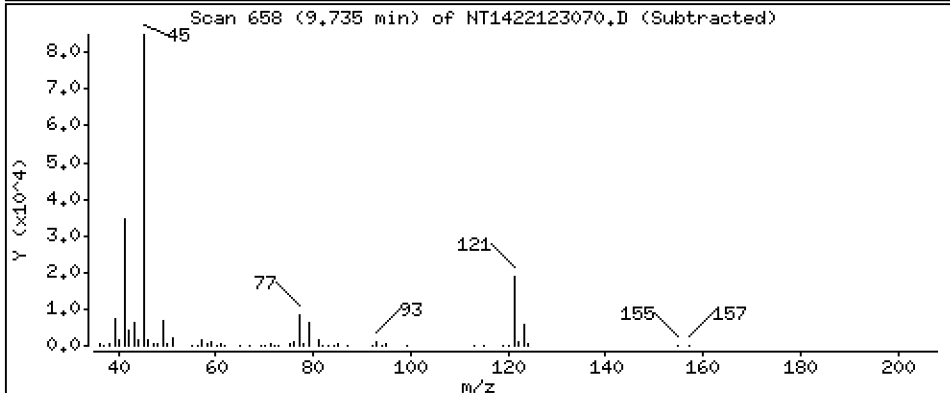
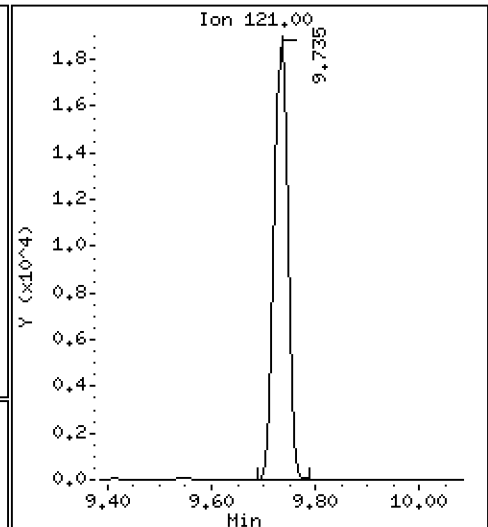
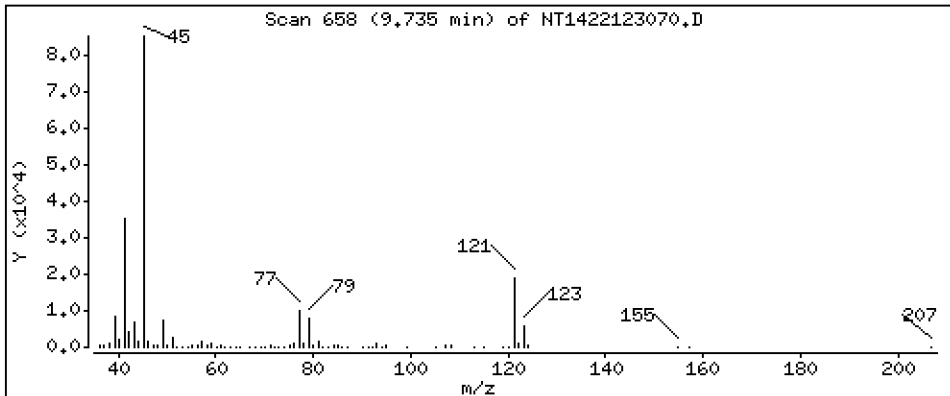
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,779 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

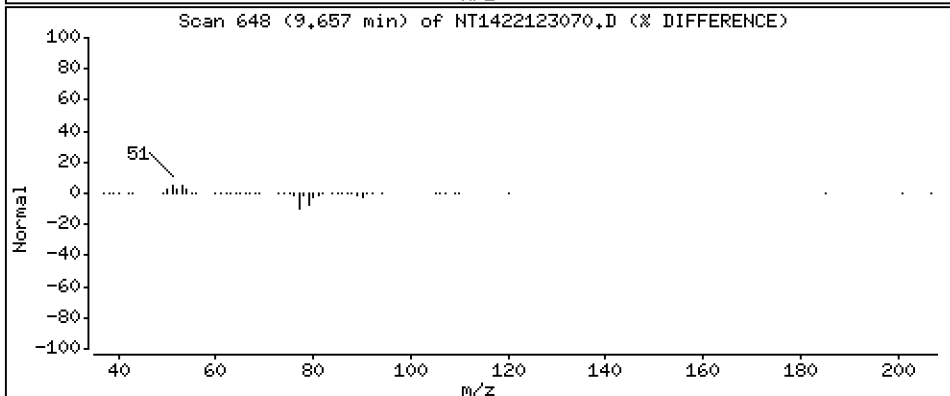
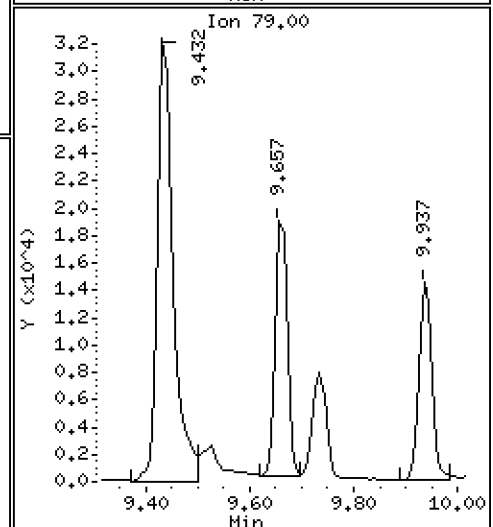
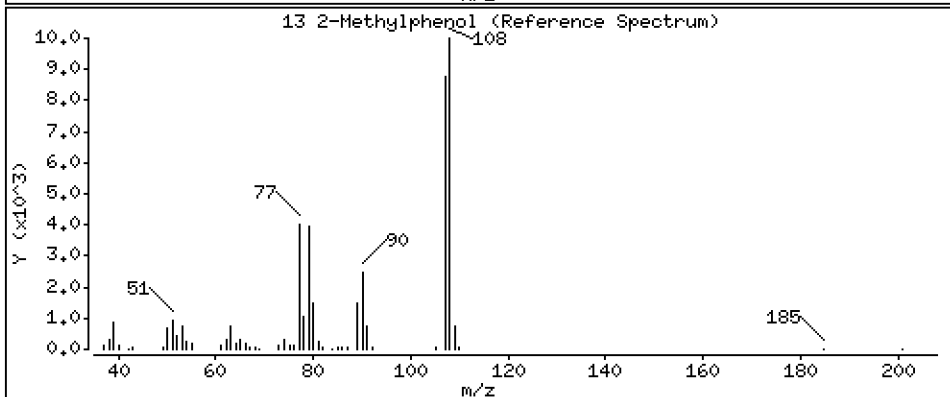
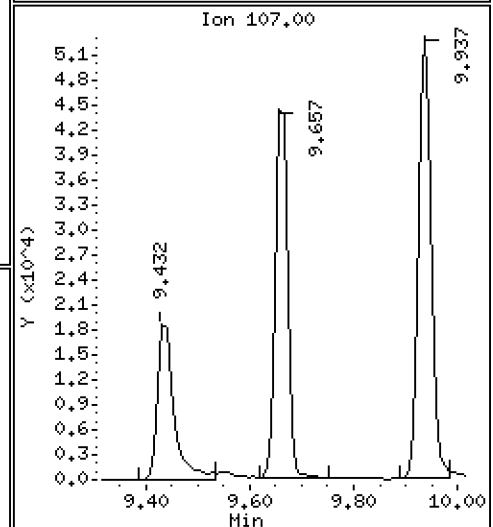
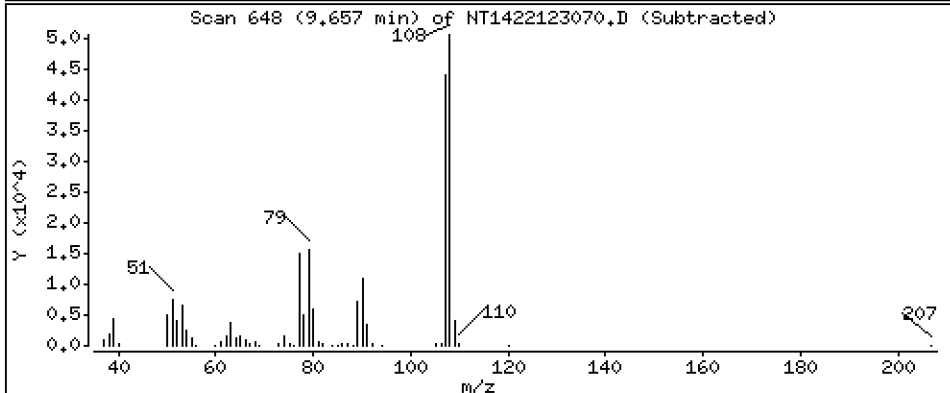
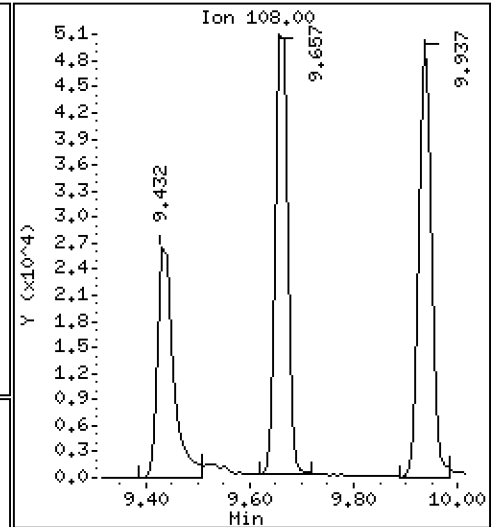
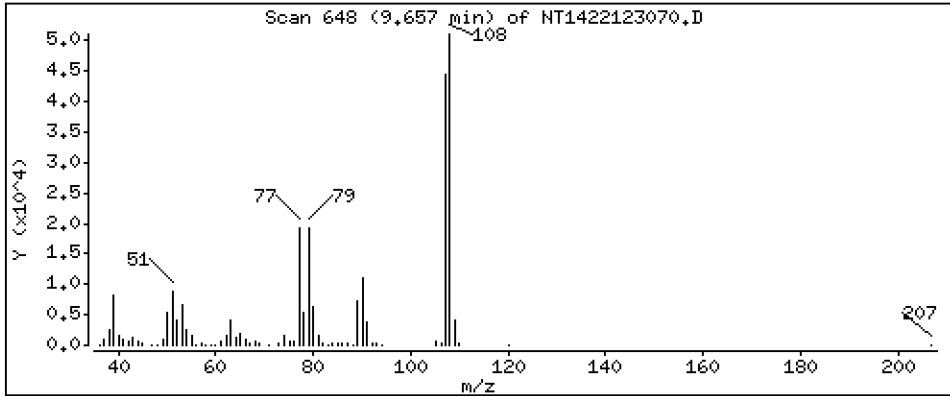
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 2,836 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

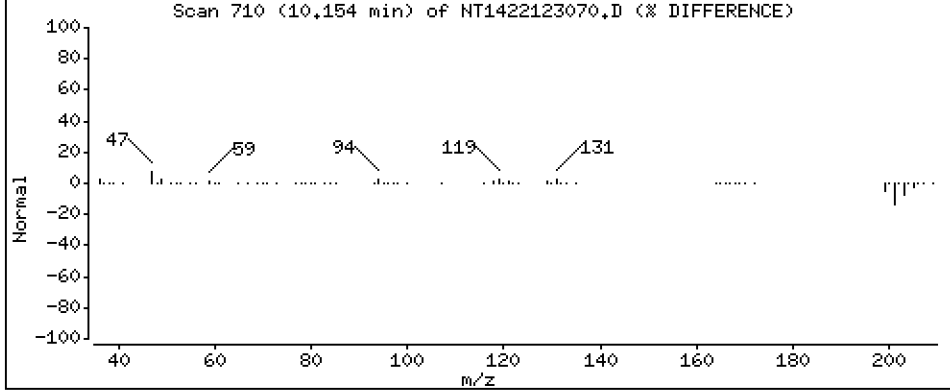
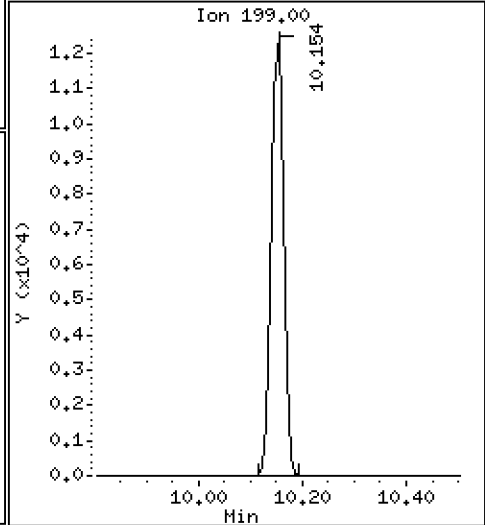
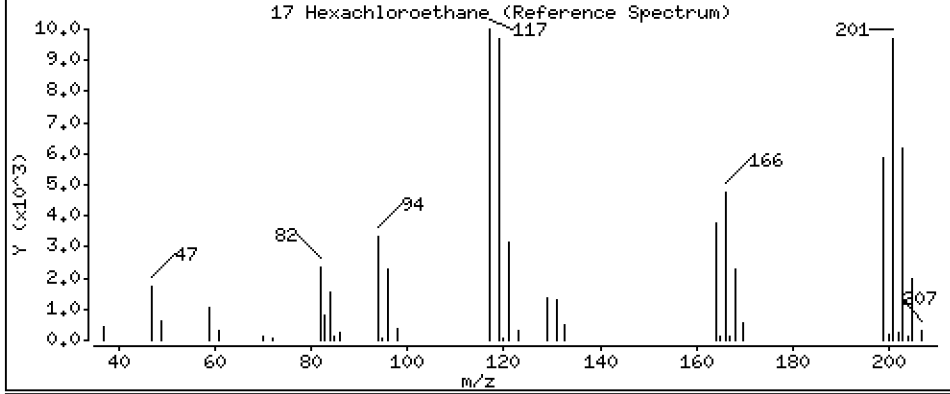
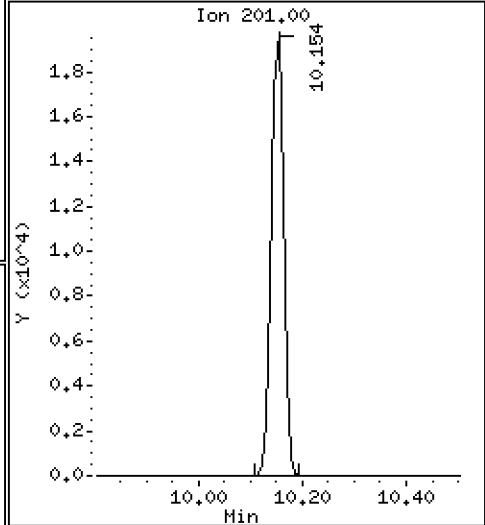
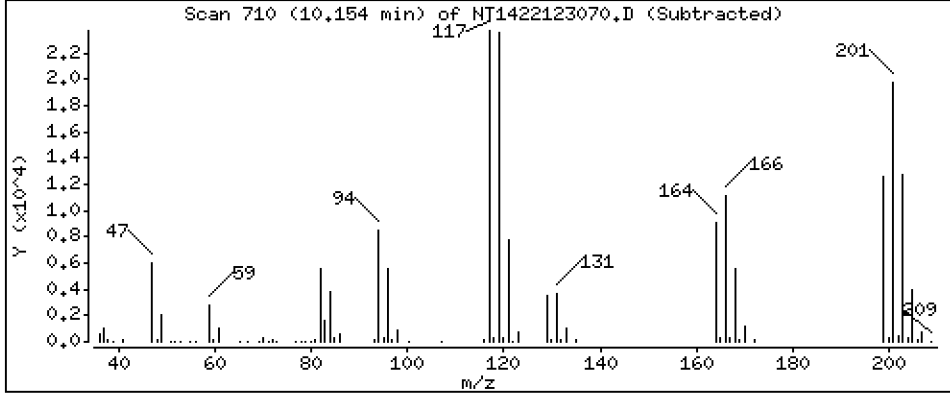
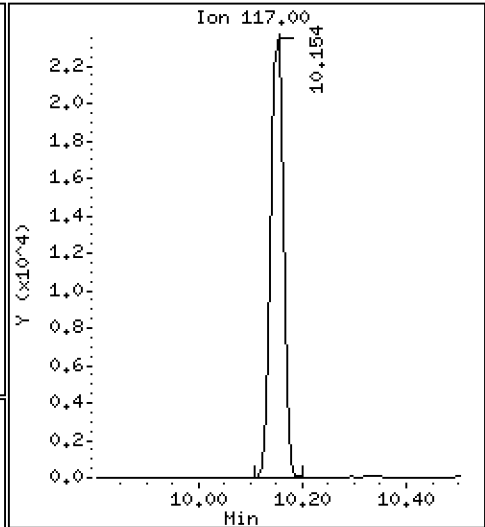
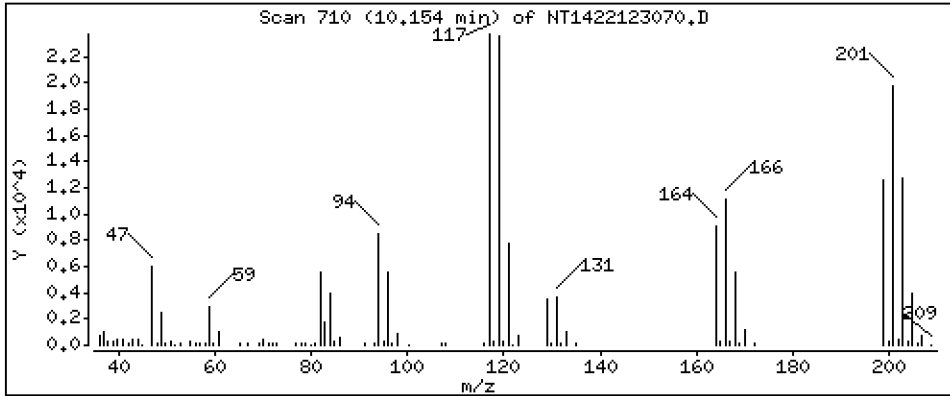
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 3.323 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

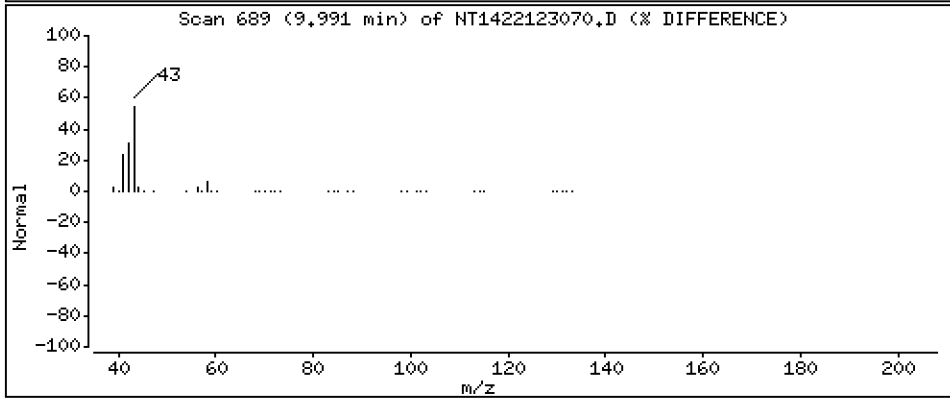
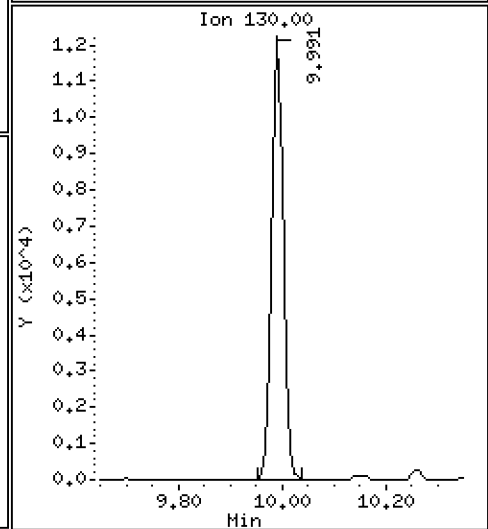
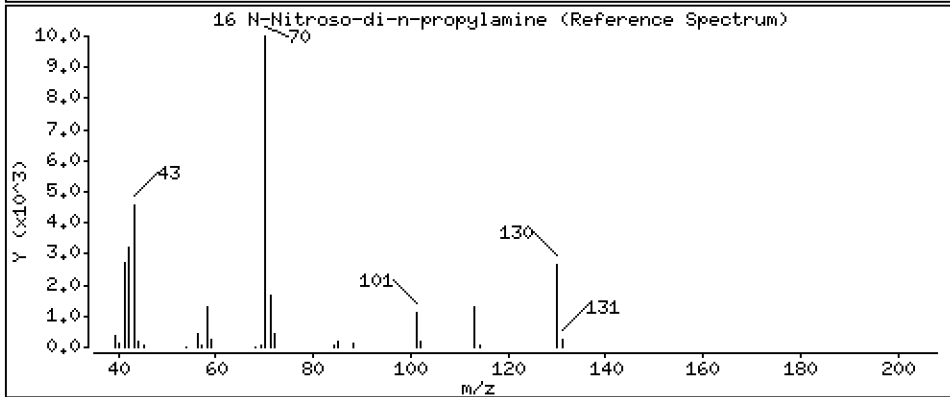
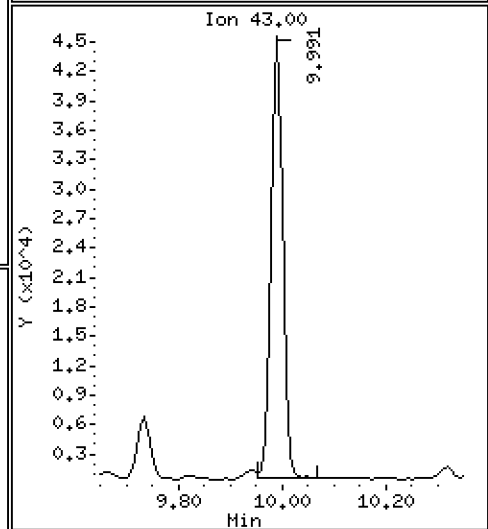
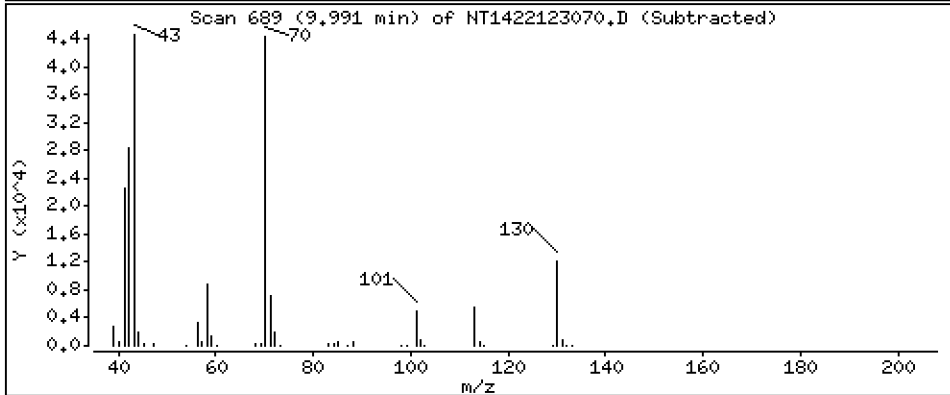
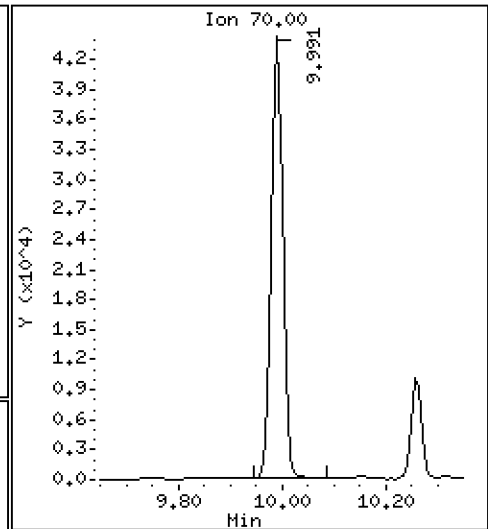
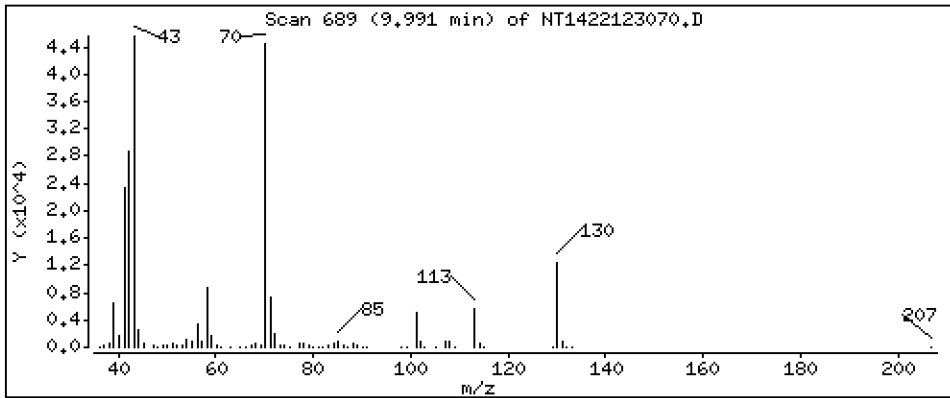
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 3,818 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

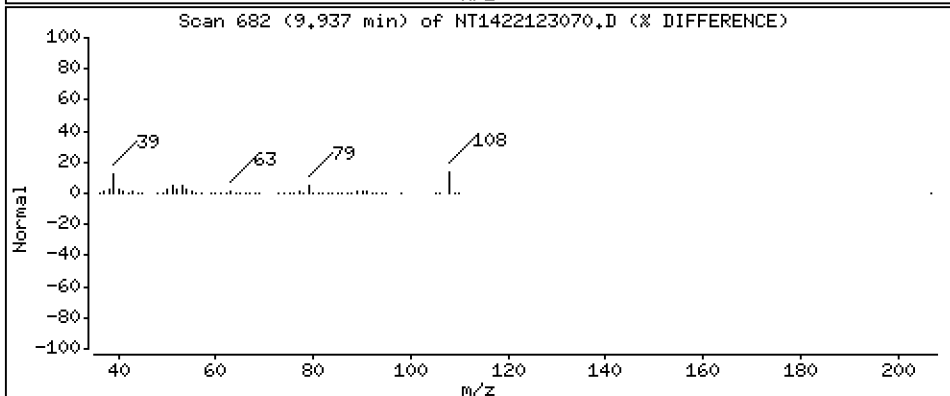
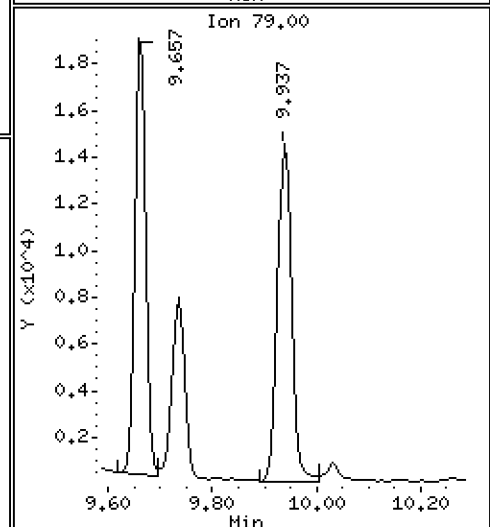
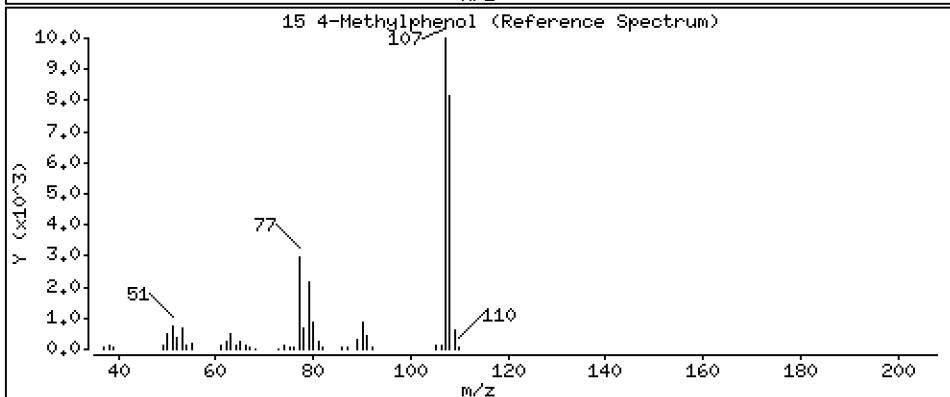
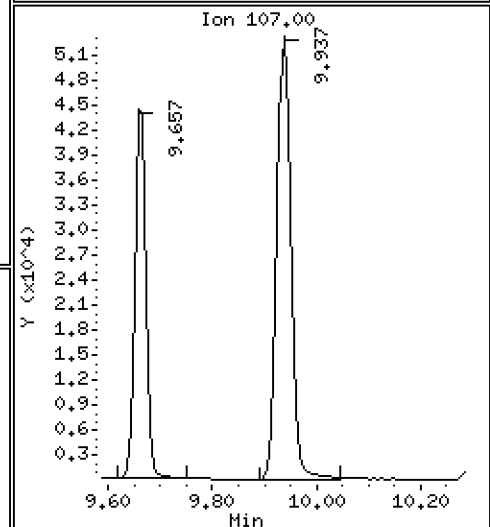
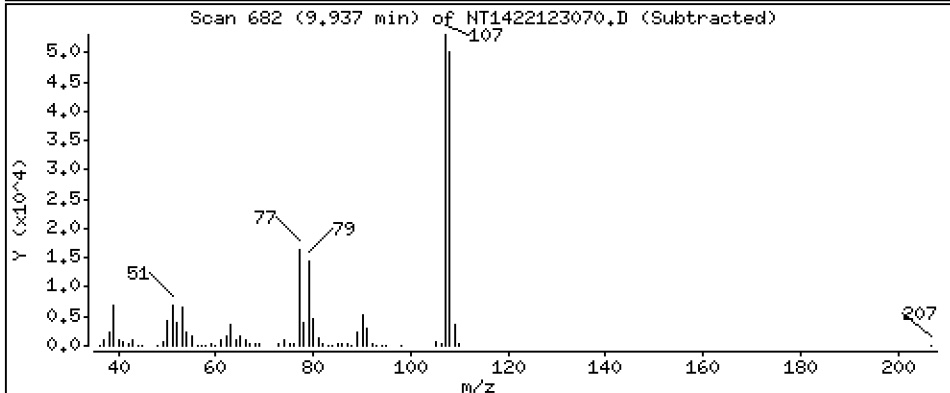
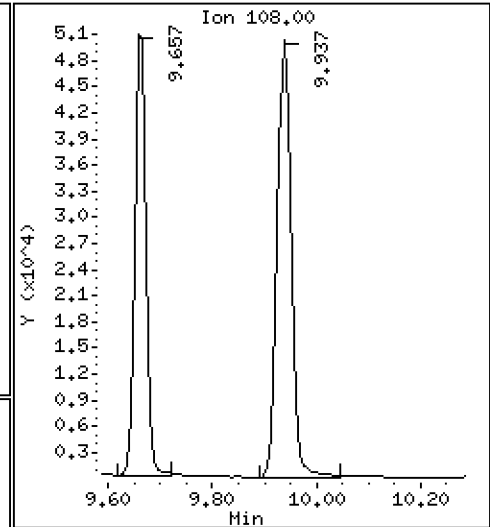
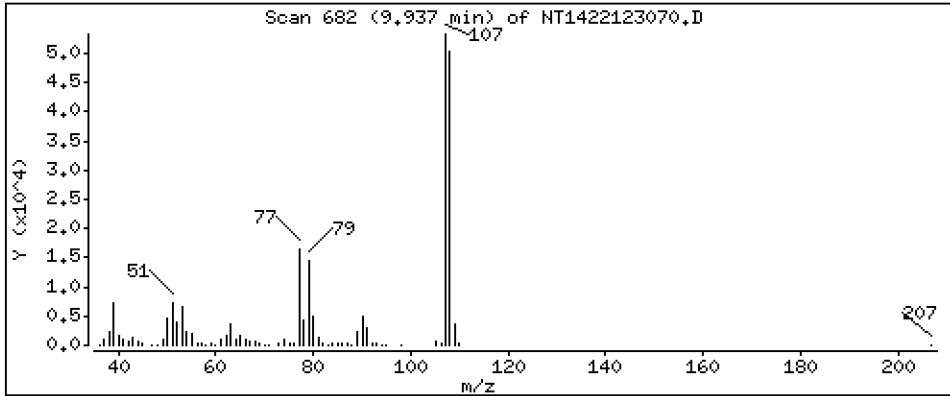
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,114 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

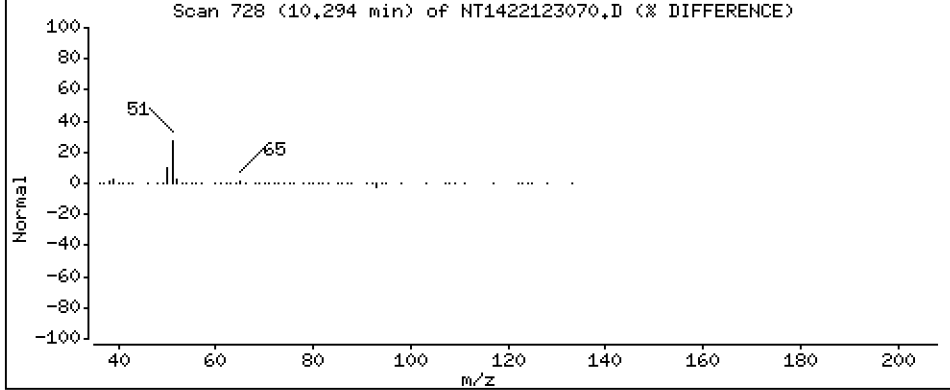
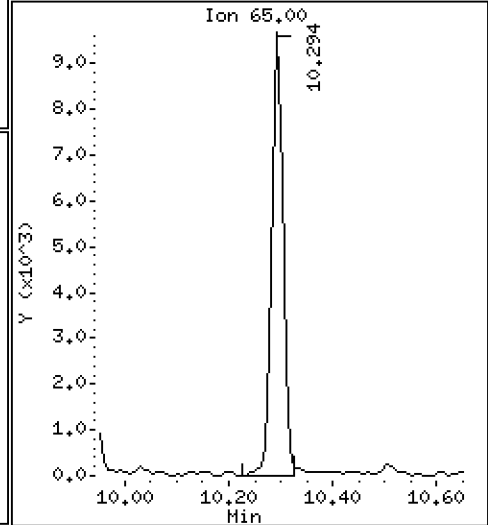
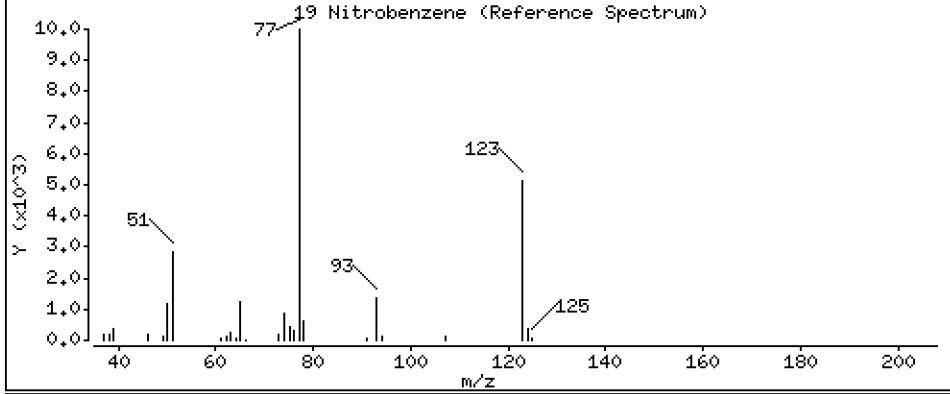
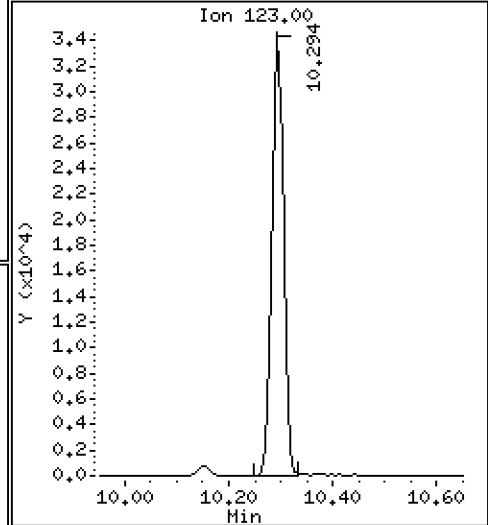
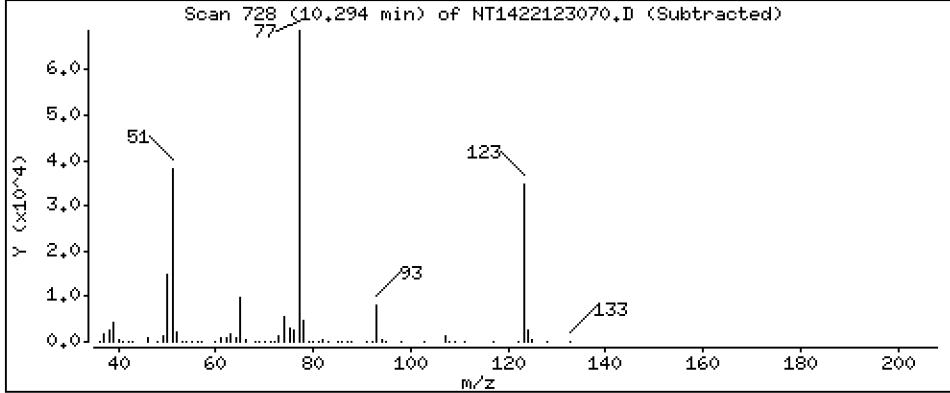
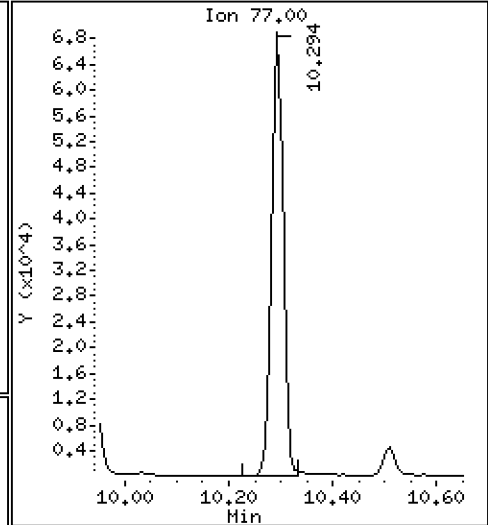
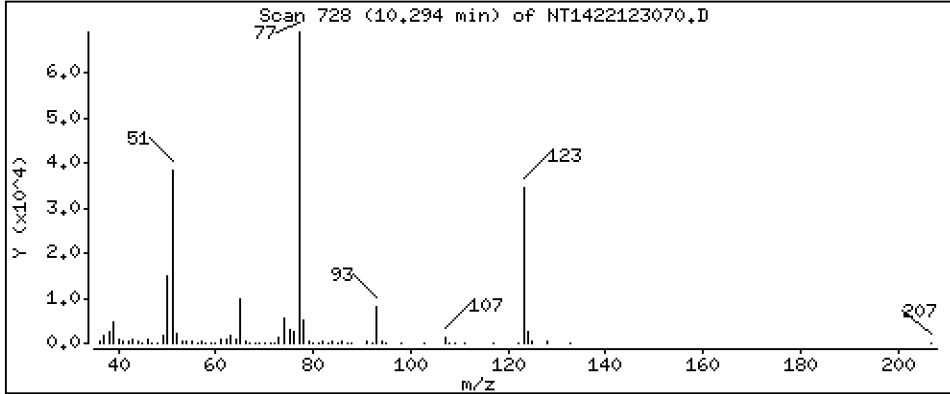
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 3,849 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

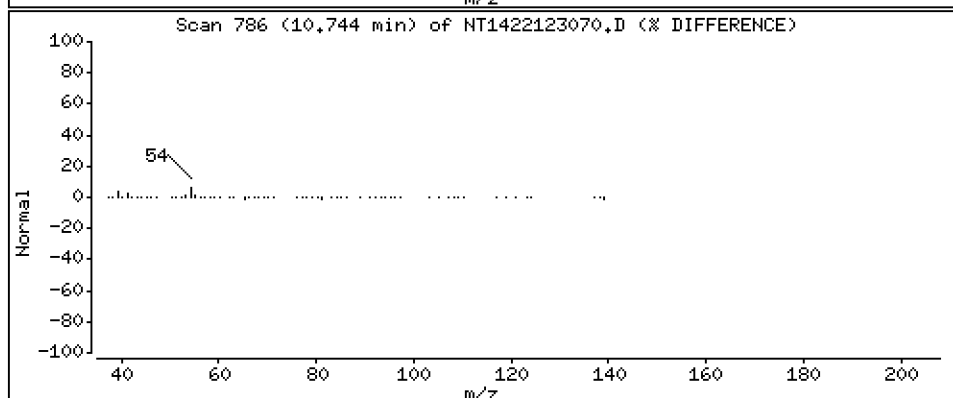
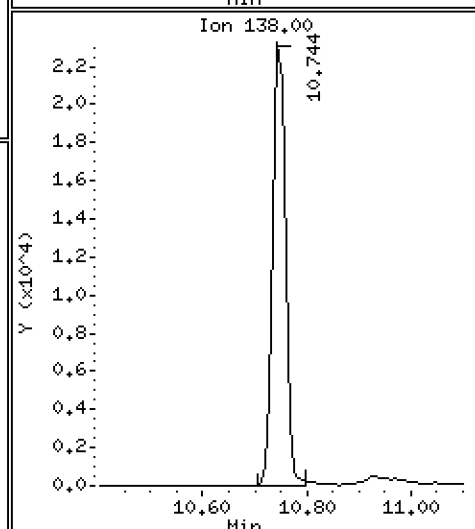
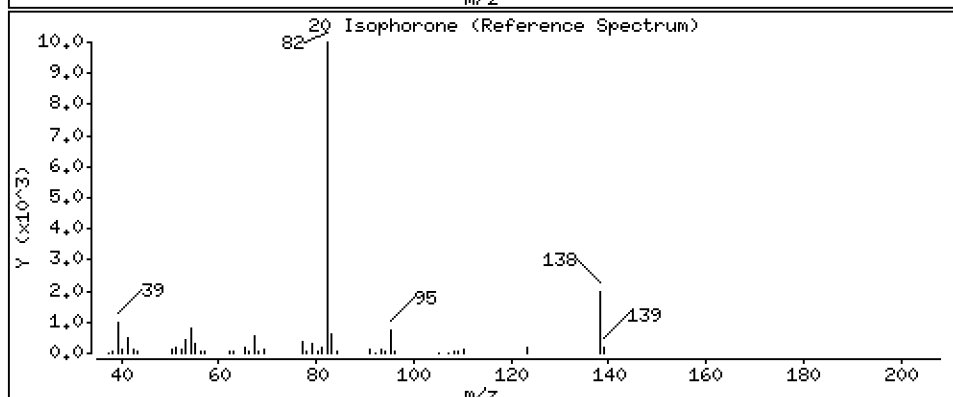
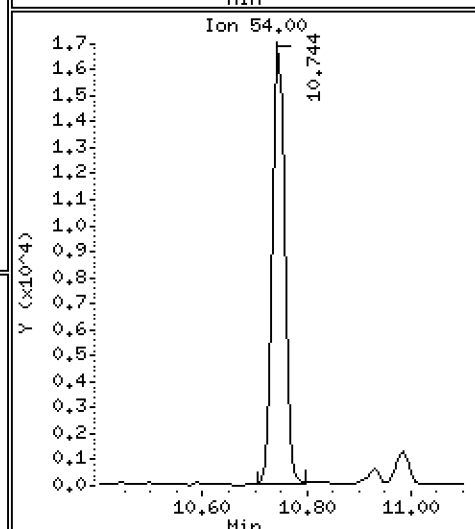
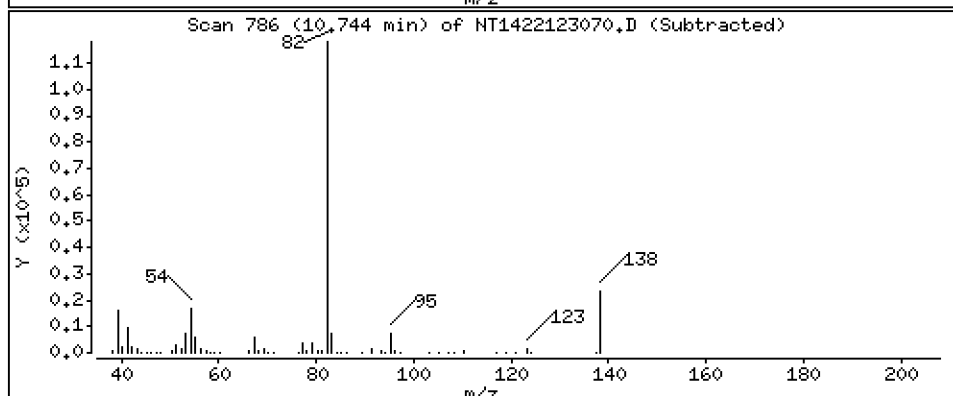
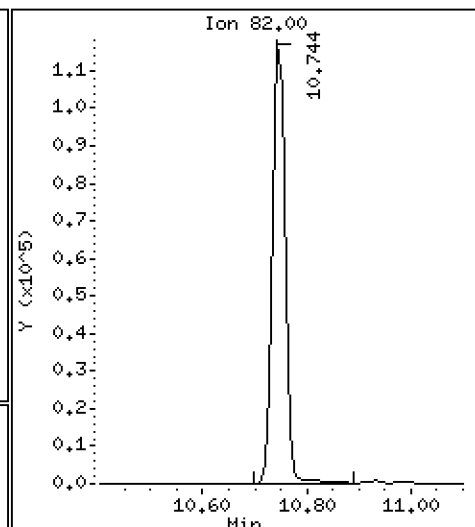
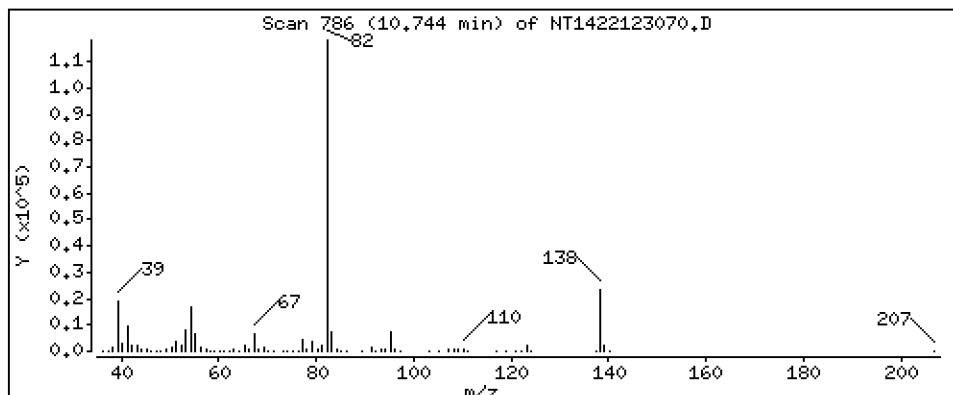
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,735 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

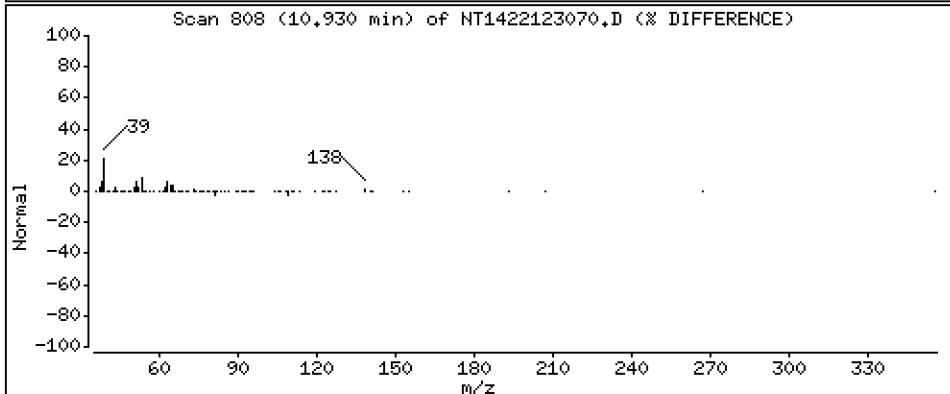
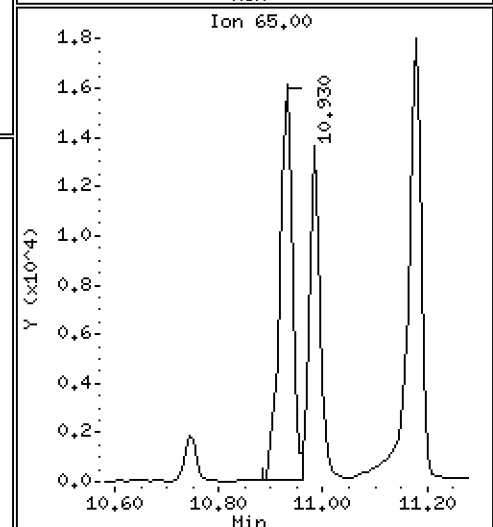
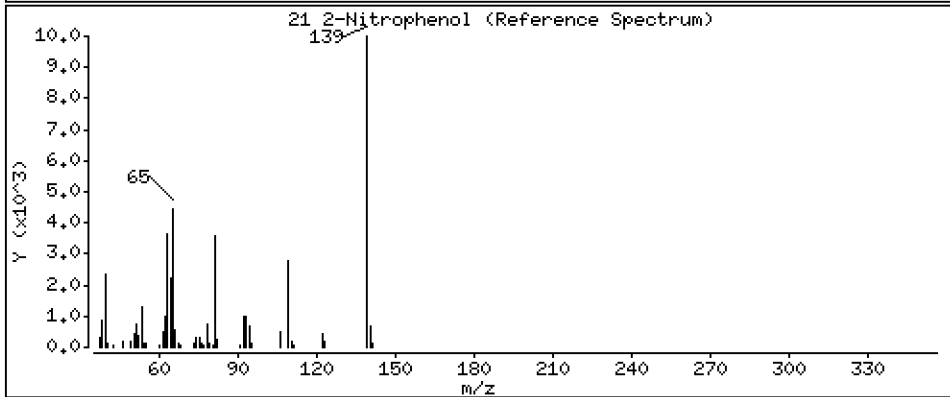
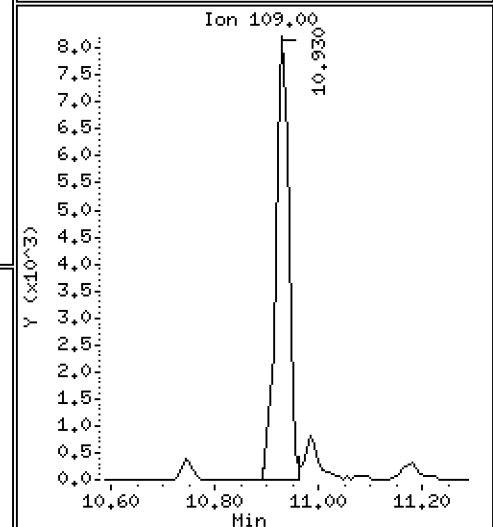
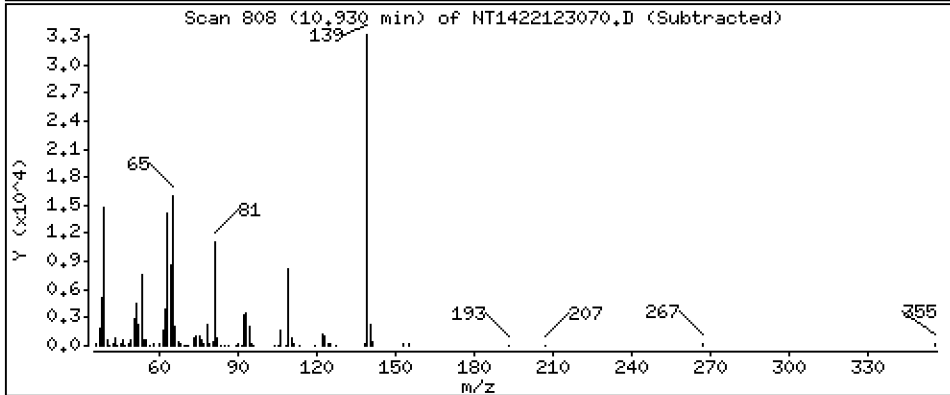
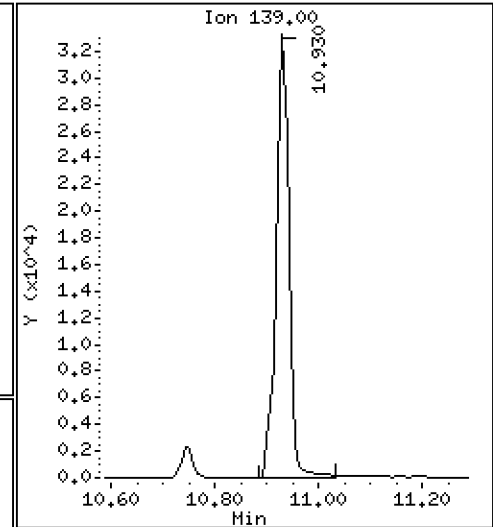
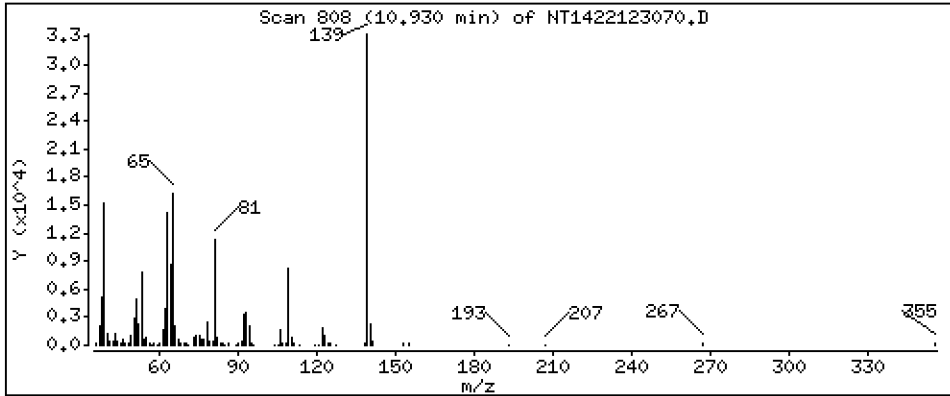
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,395 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

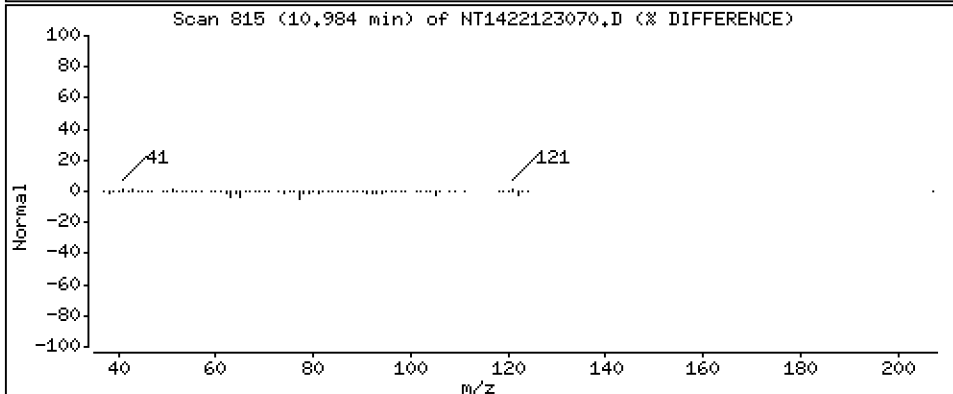
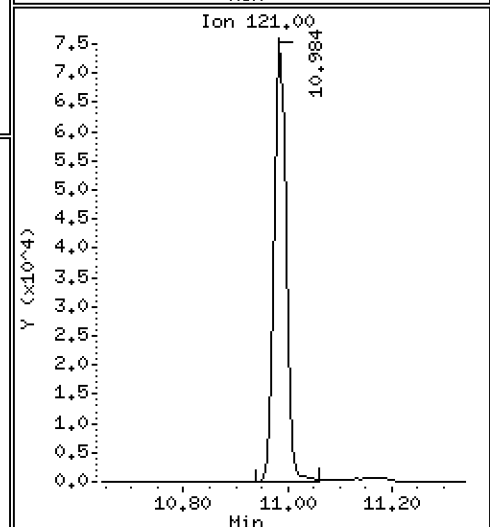
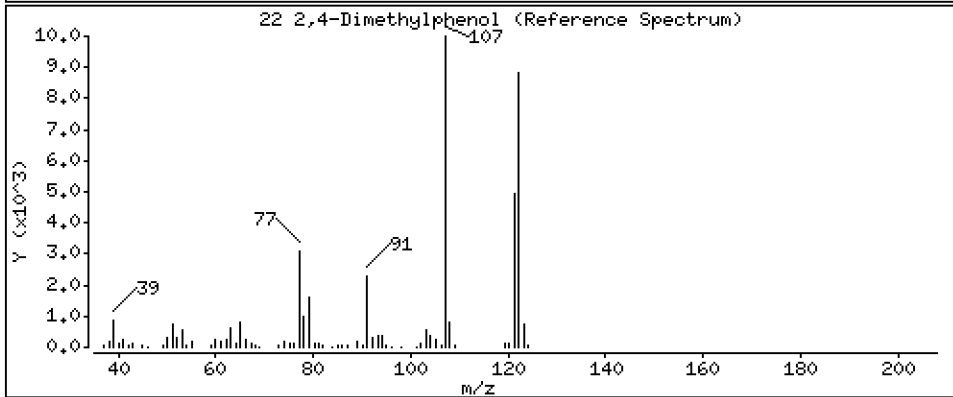
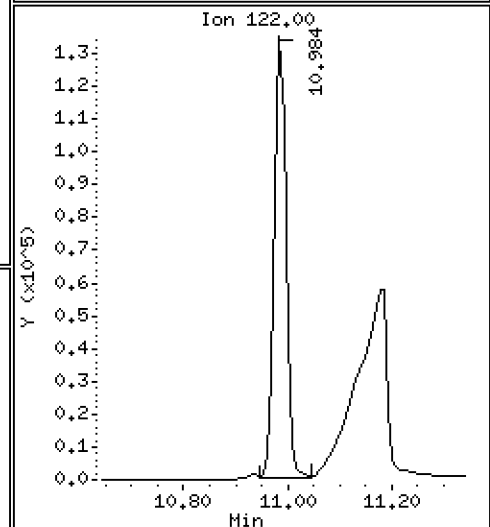
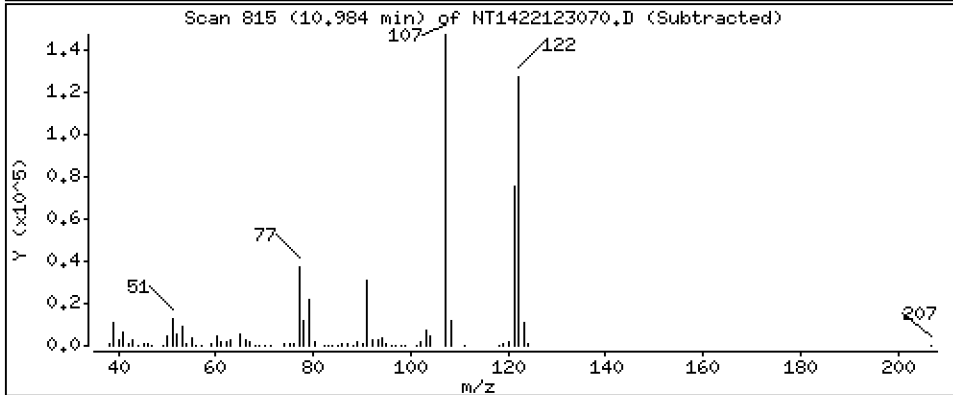
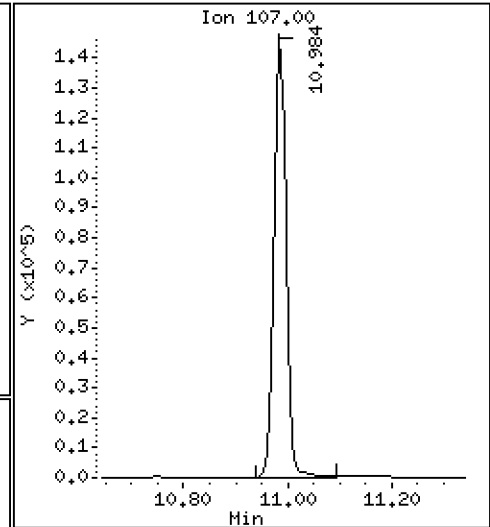
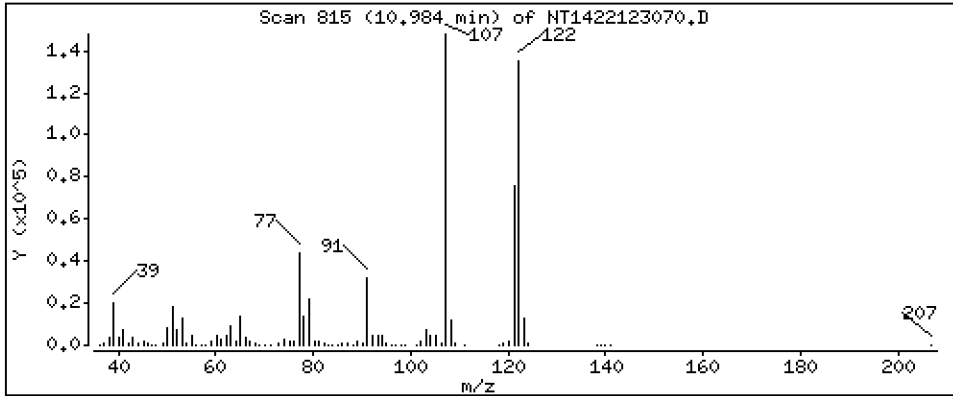
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 8,193 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

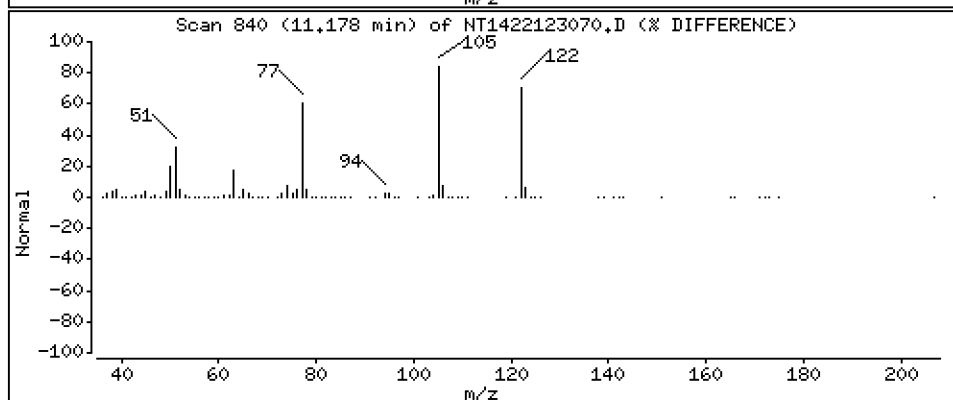
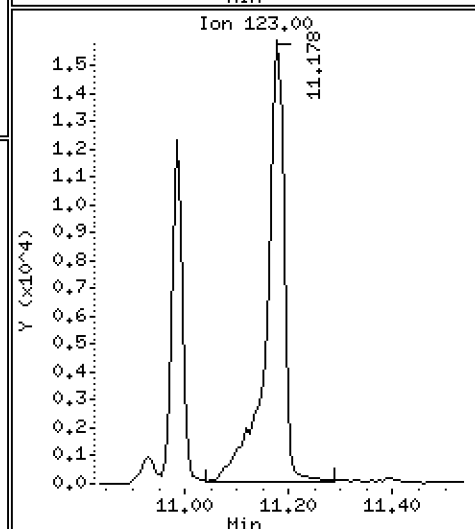
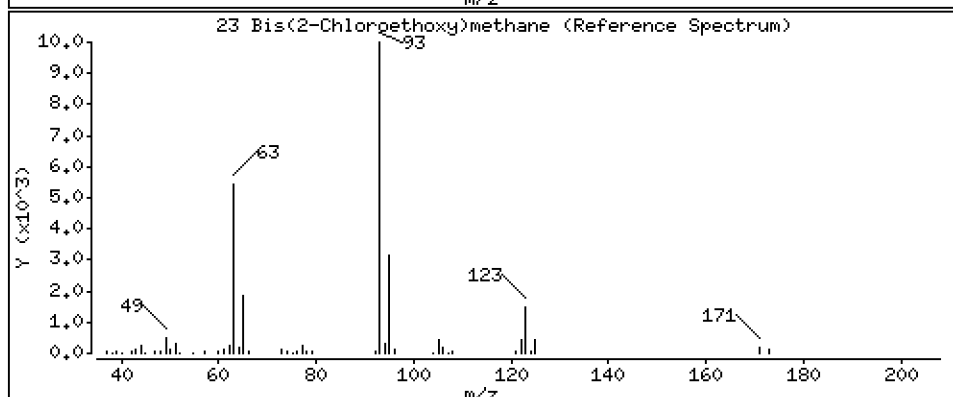
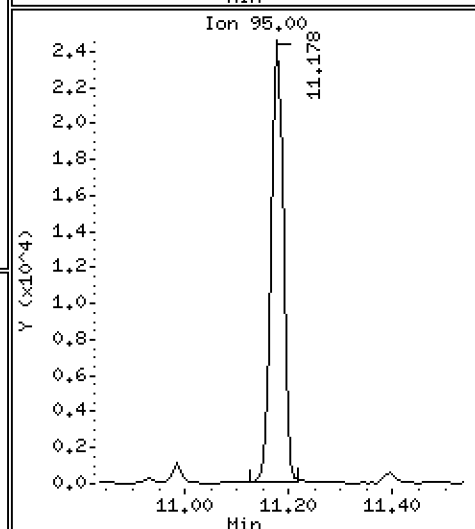
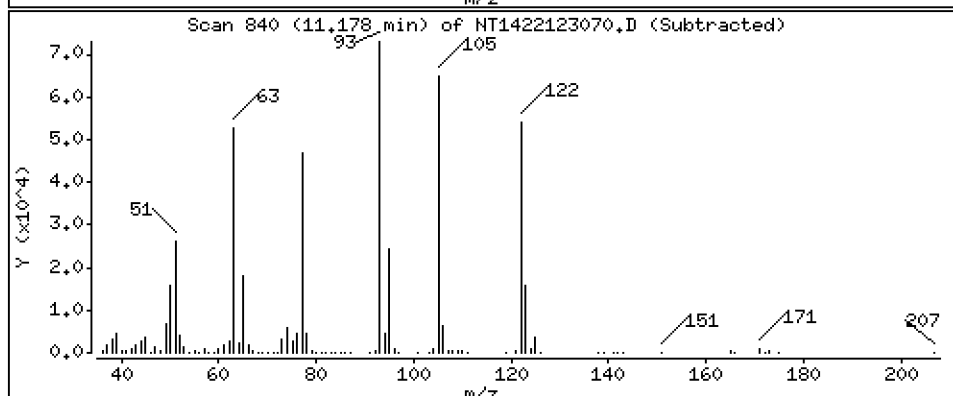
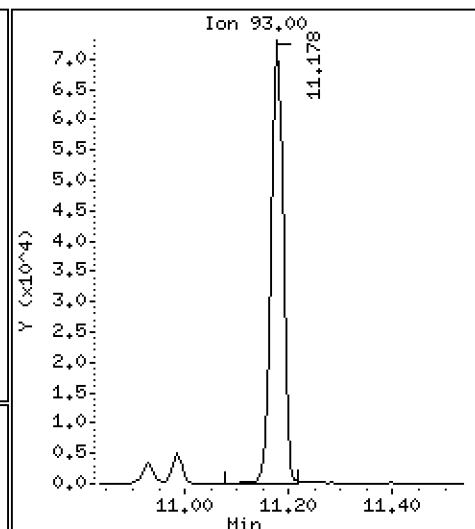
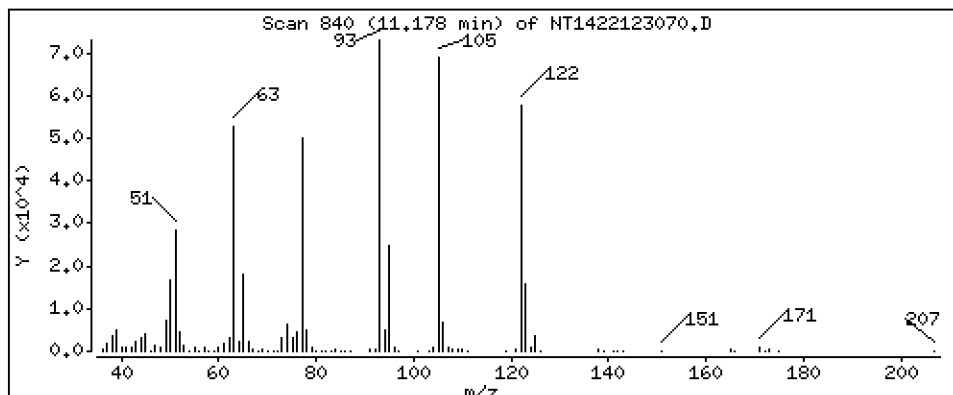
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,287 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

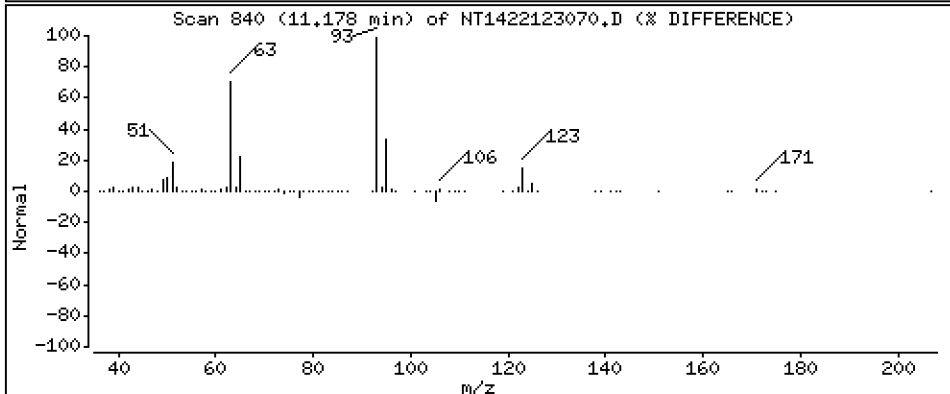
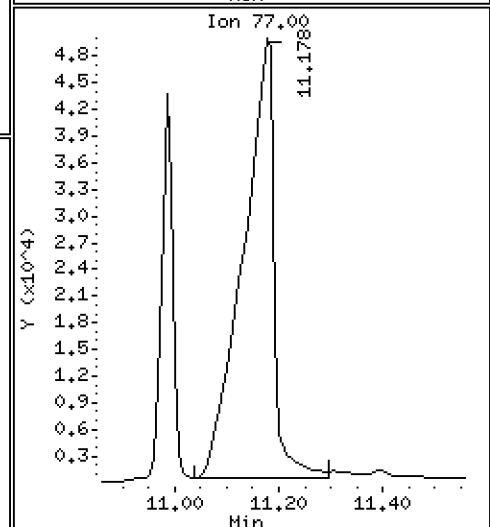
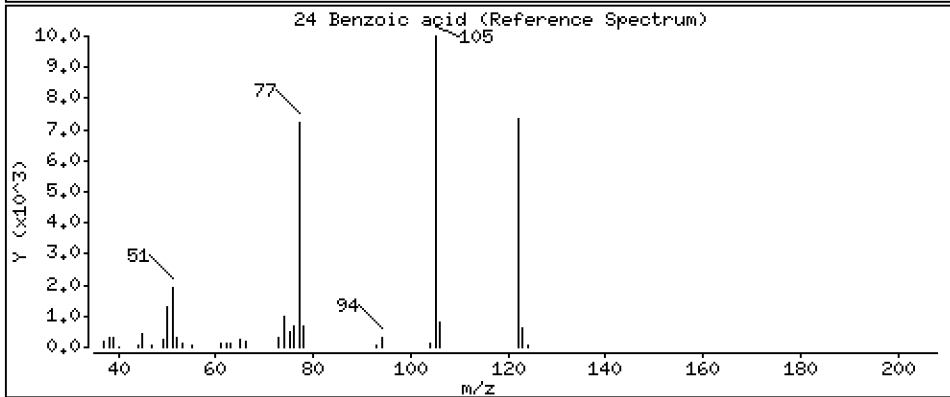
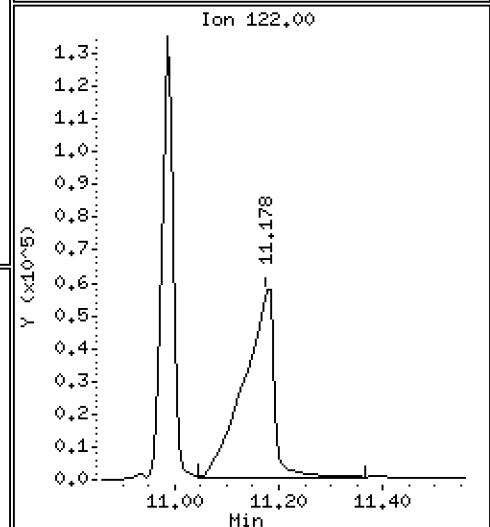
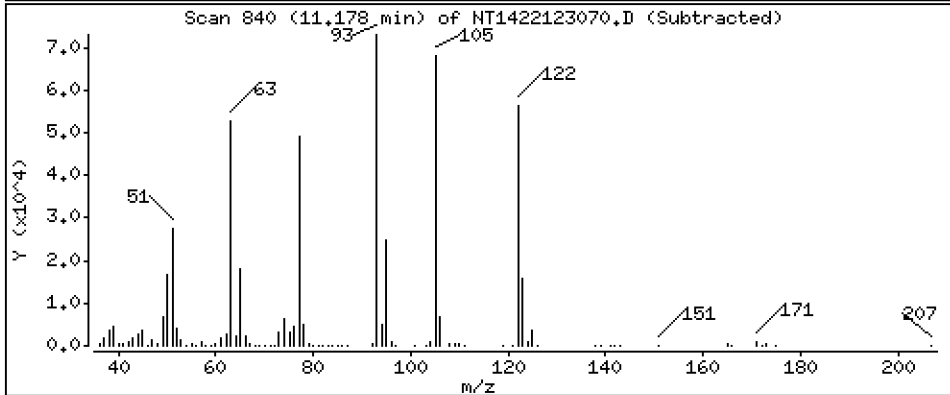
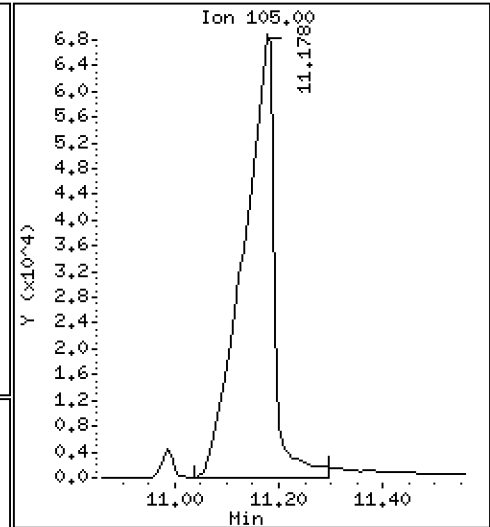
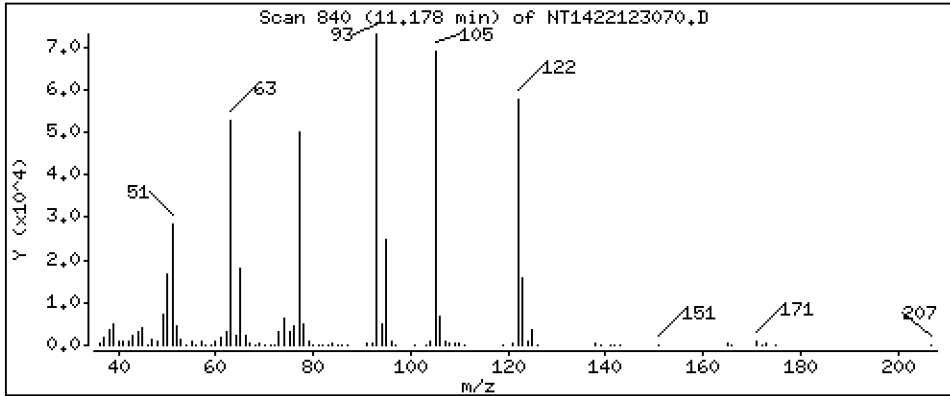
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 17.00 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

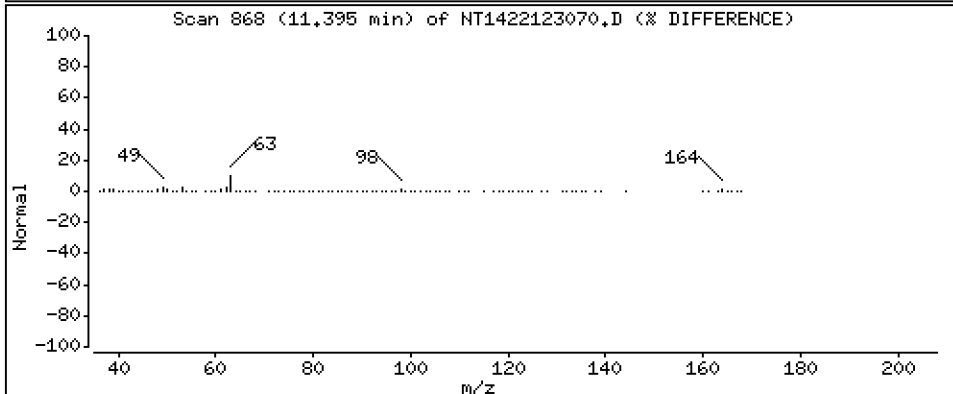
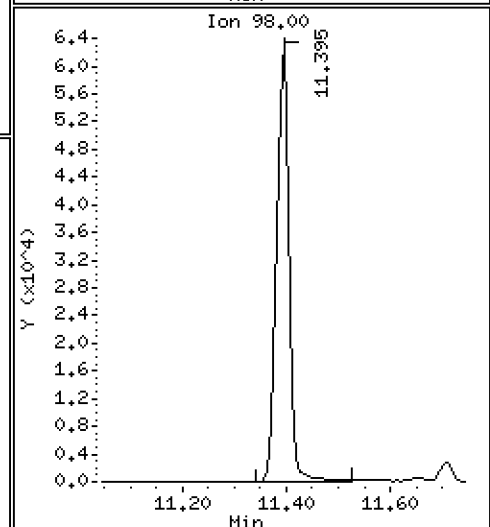
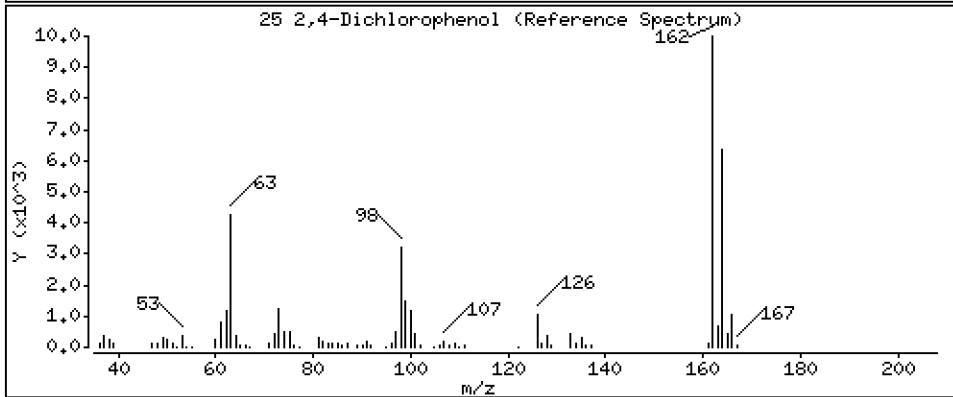
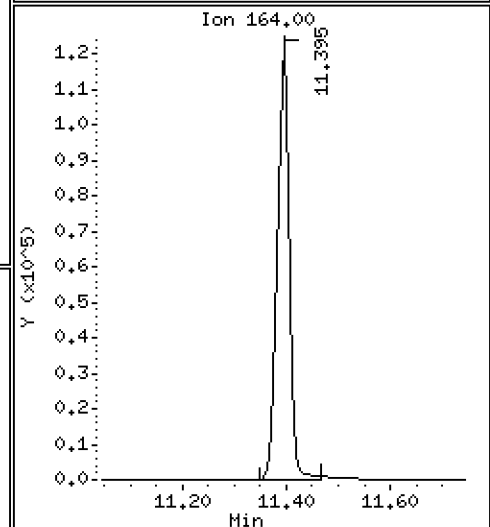
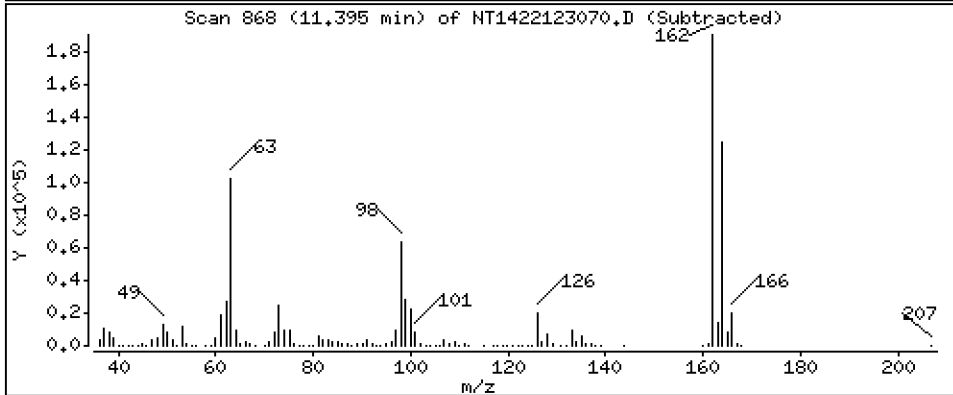
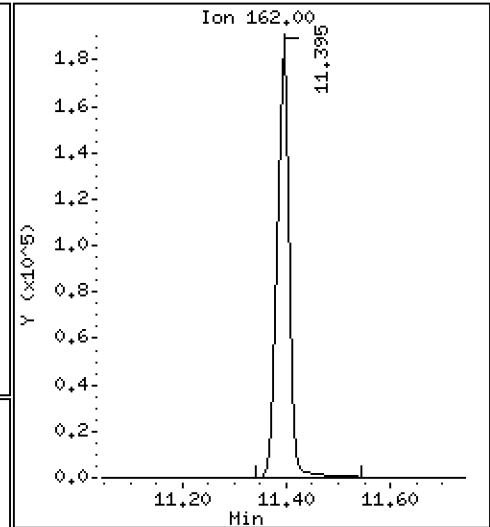
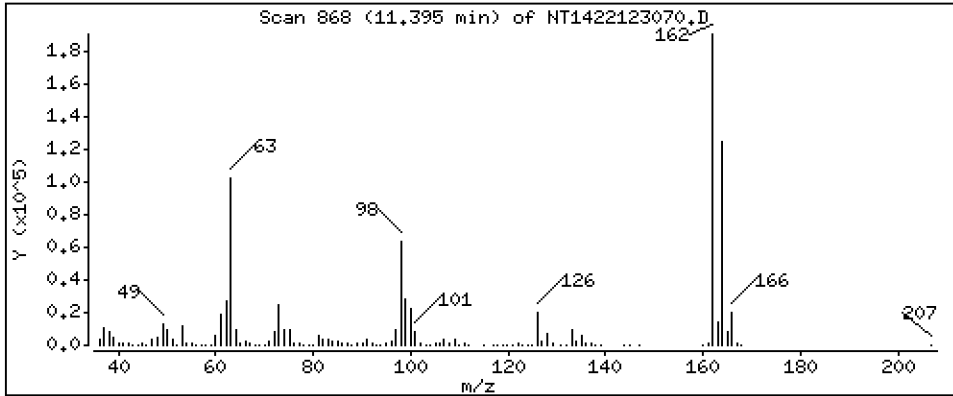
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 13,91 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

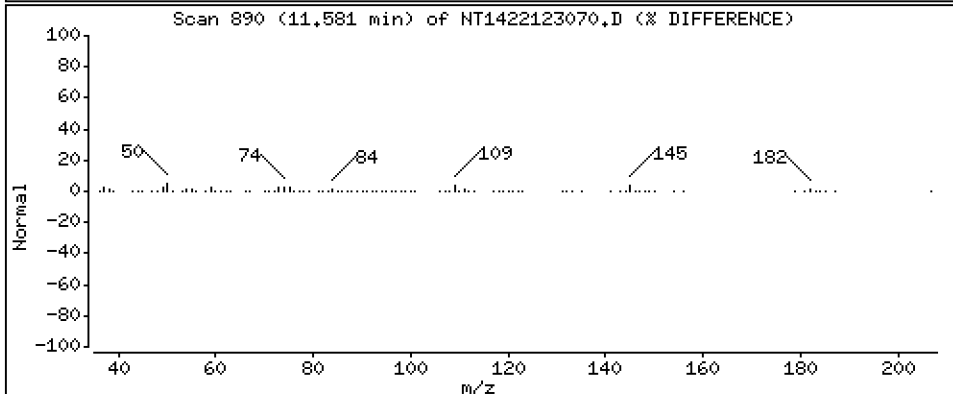
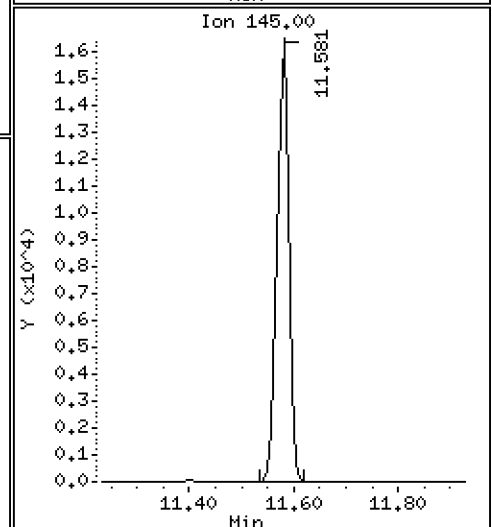
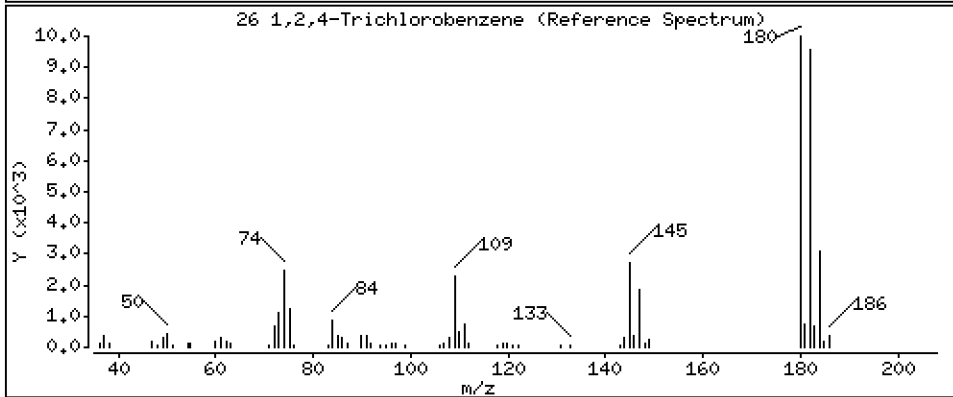
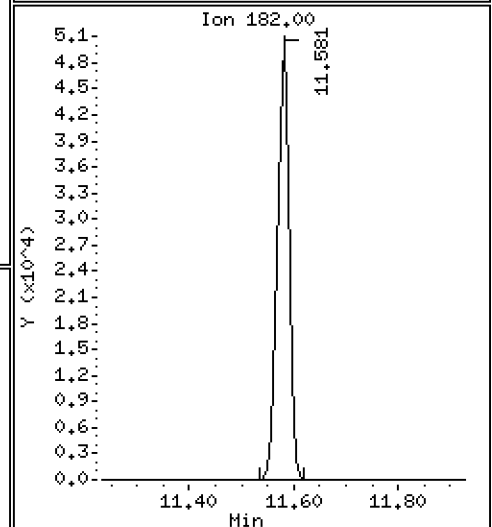
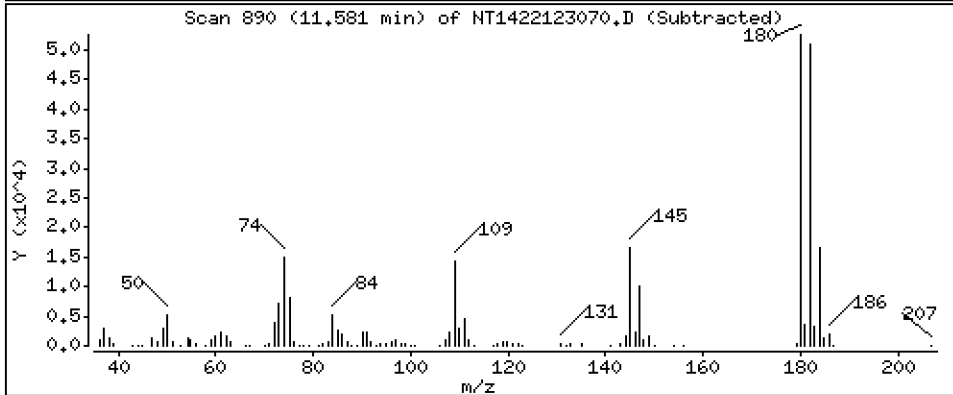
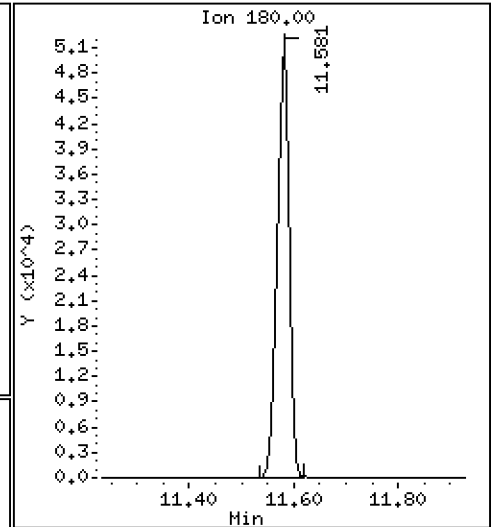
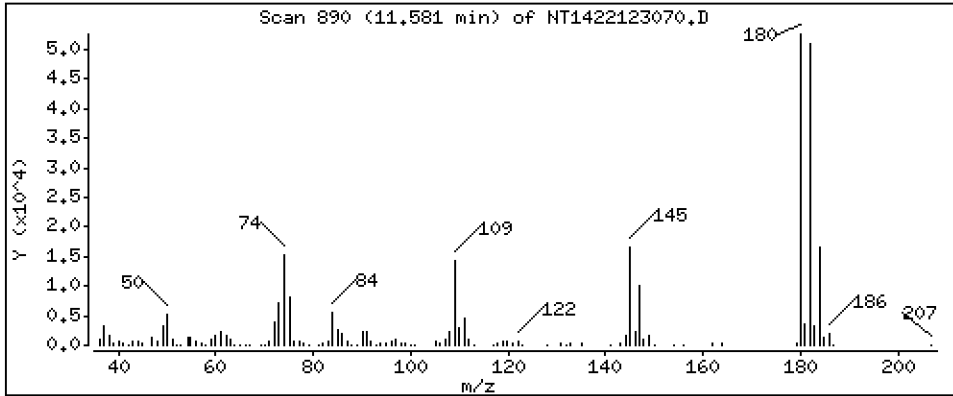
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

26 1,2,4-Trichlorobenzene

Concentration: 3,214 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

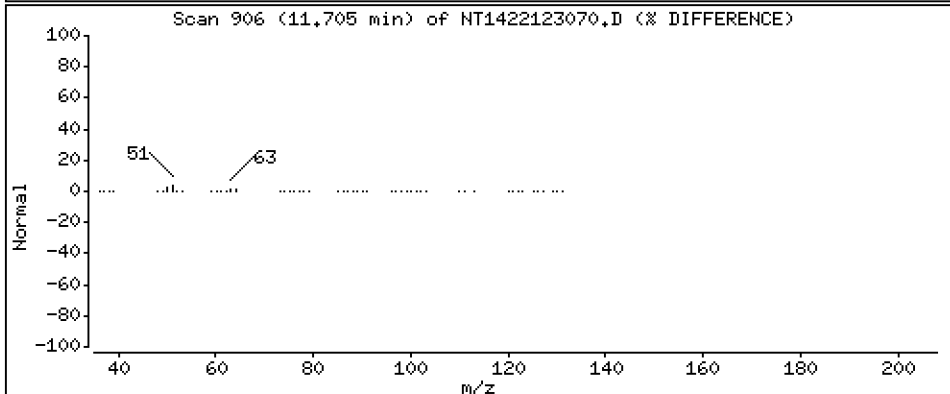
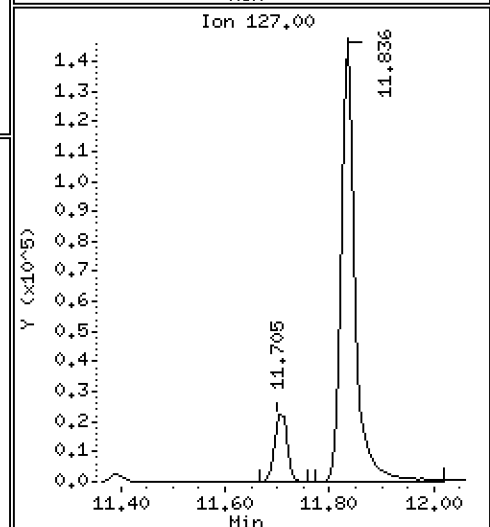
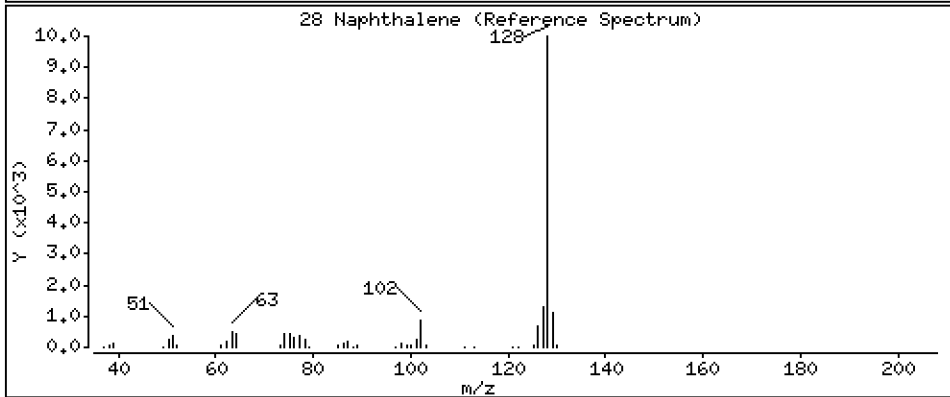
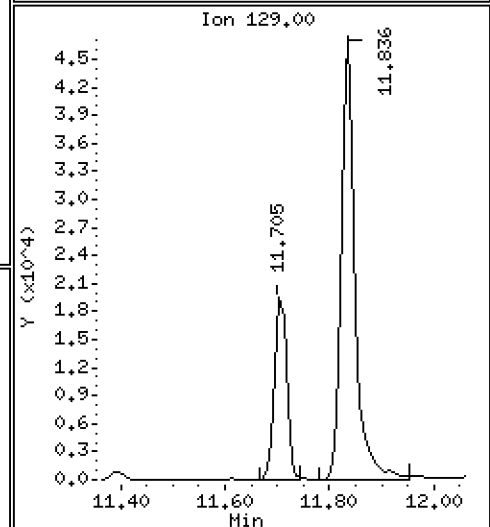
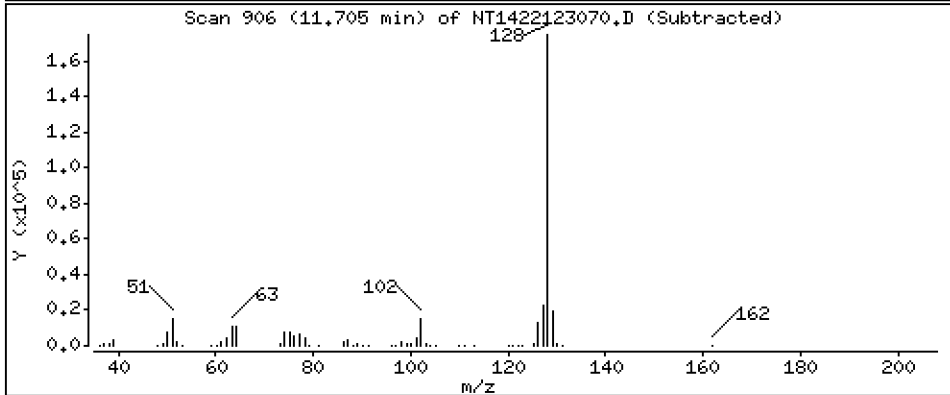
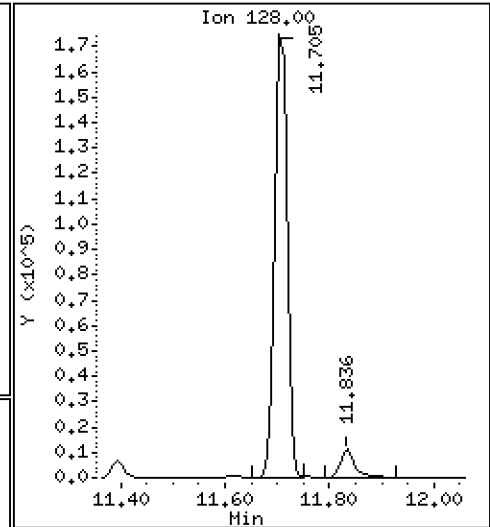
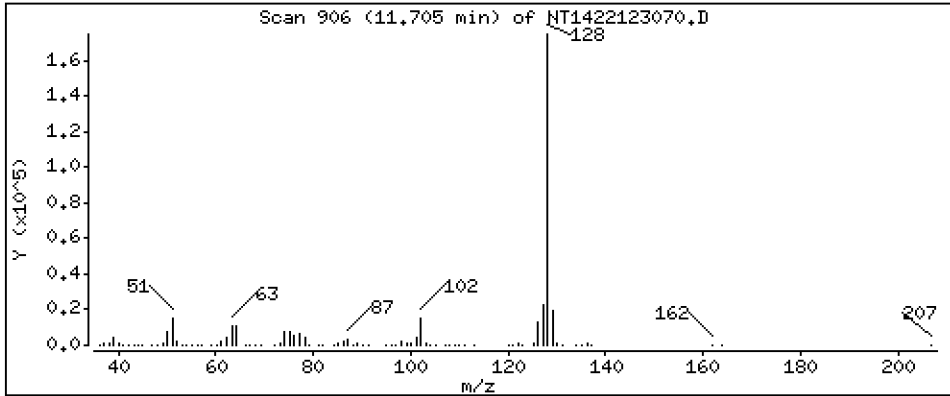
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 3,606 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

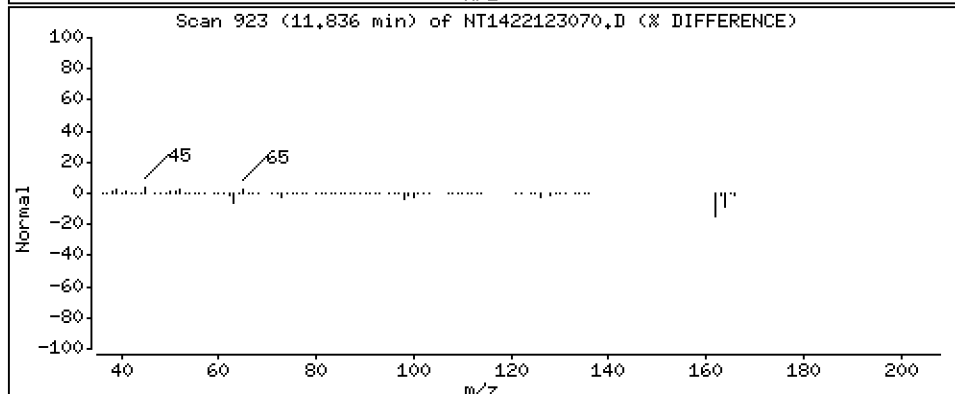
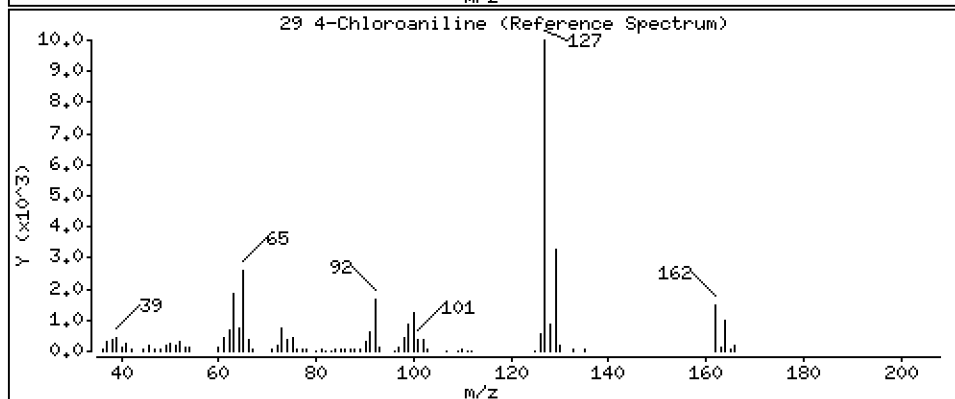
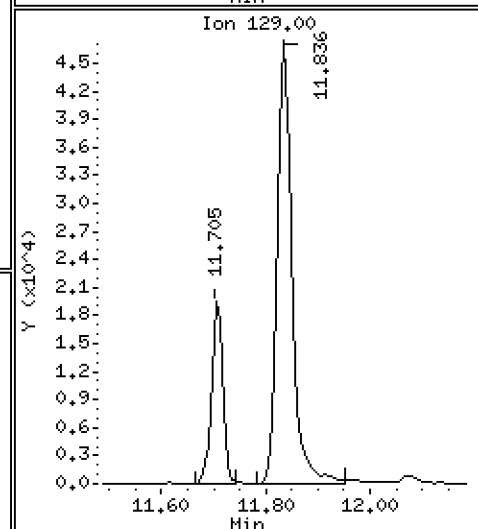
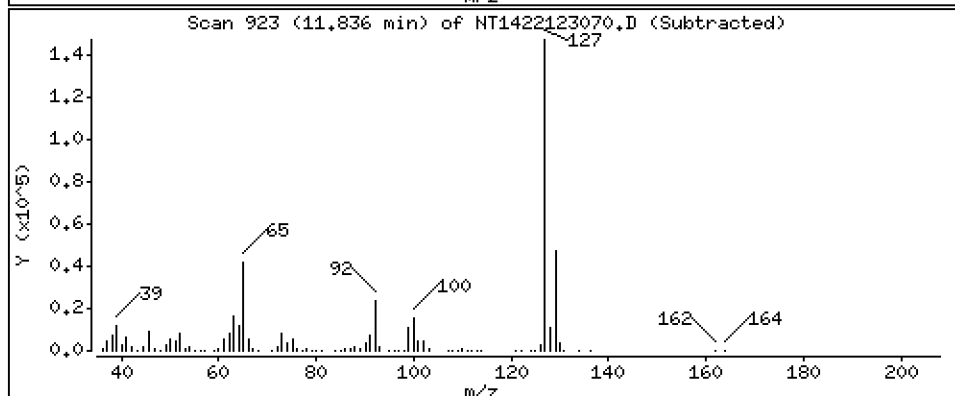
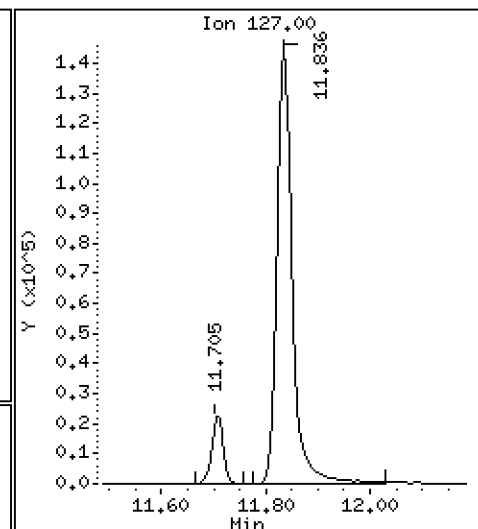
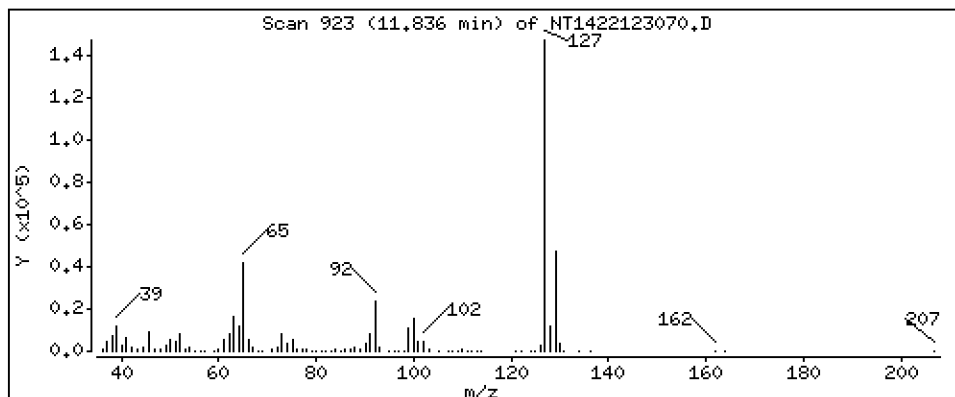
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 9,488 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

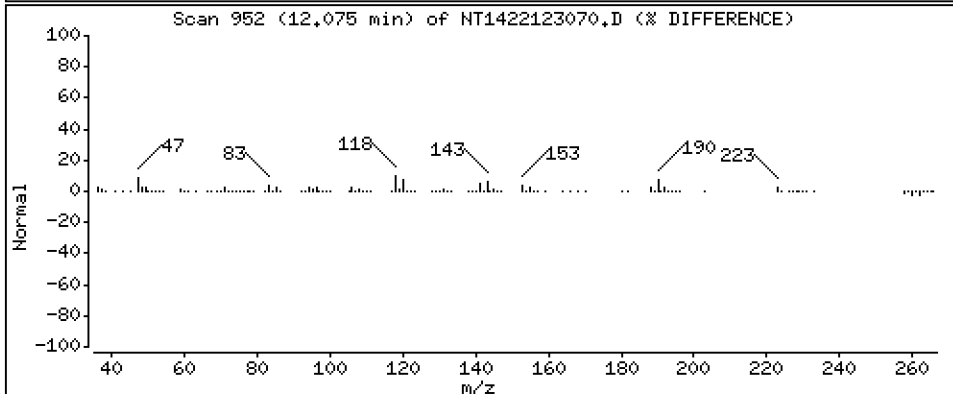
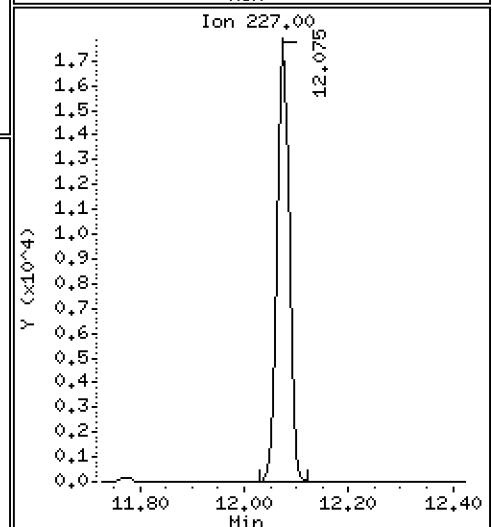
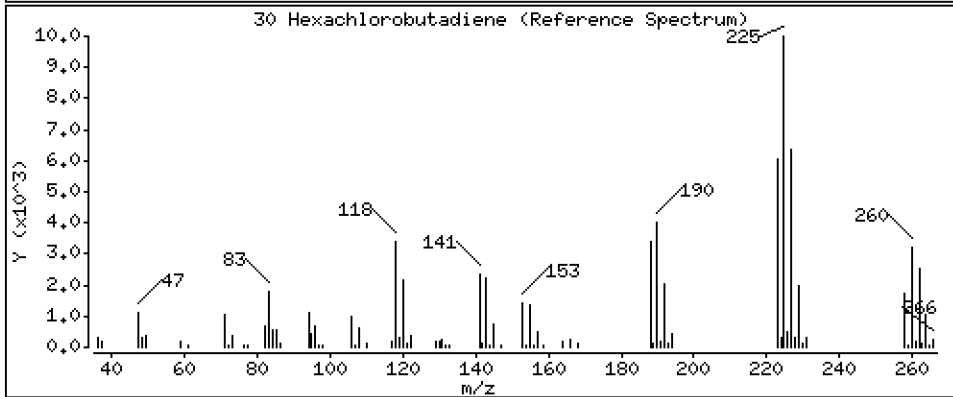
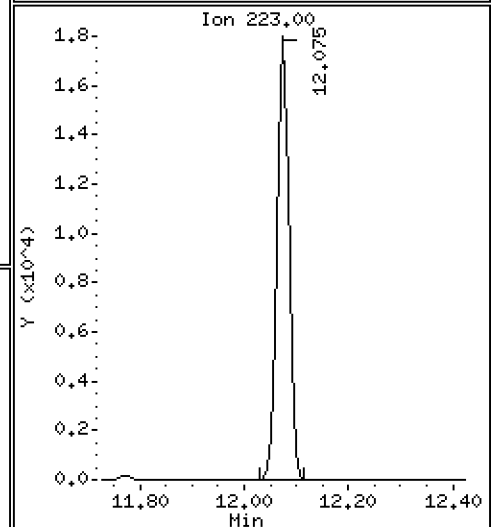
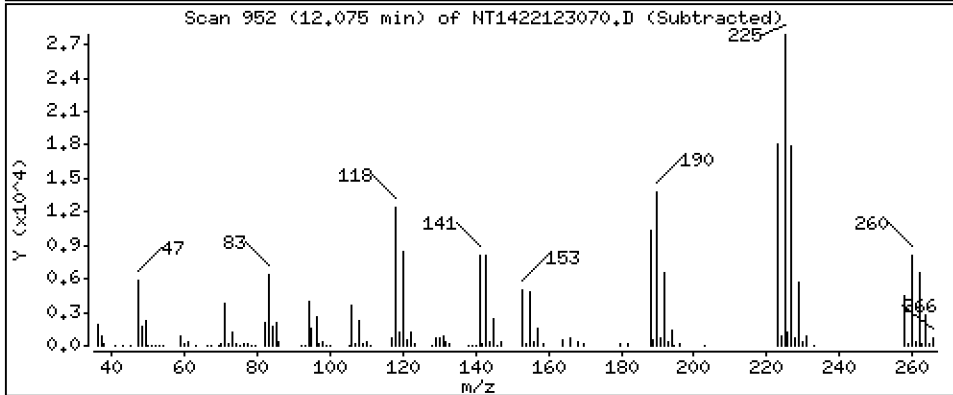
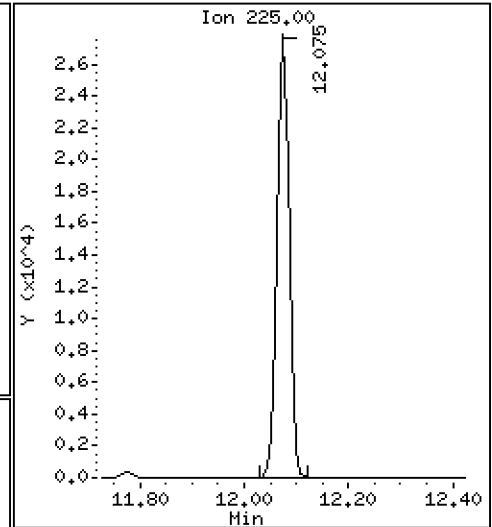
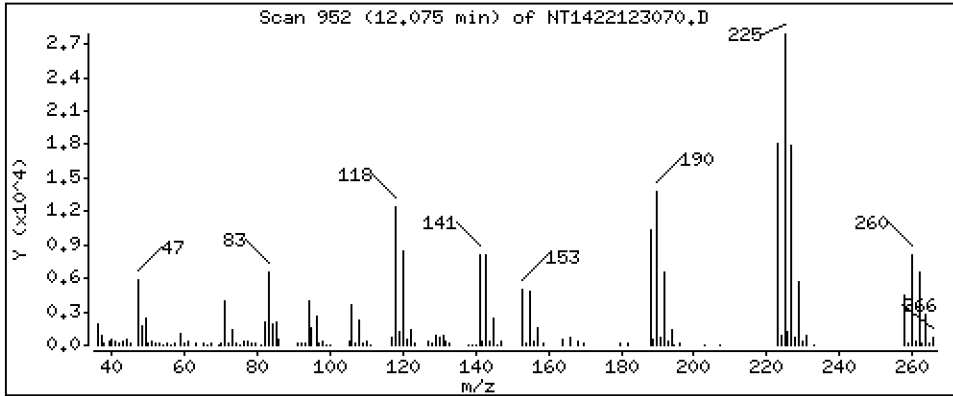
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 3,463 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

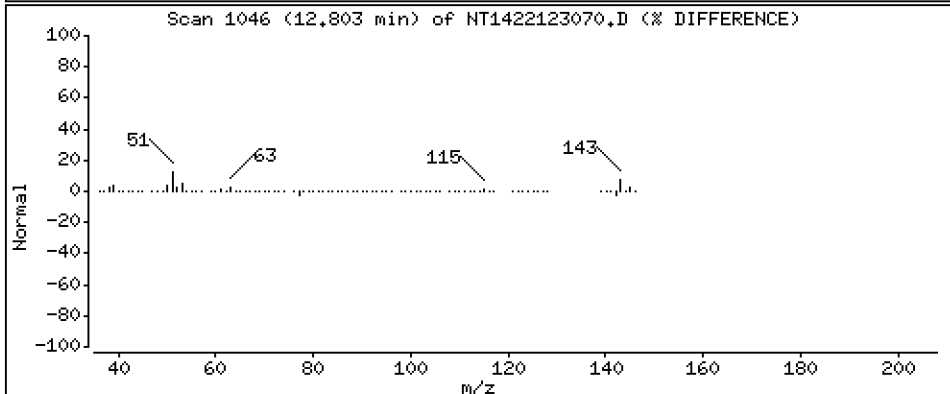
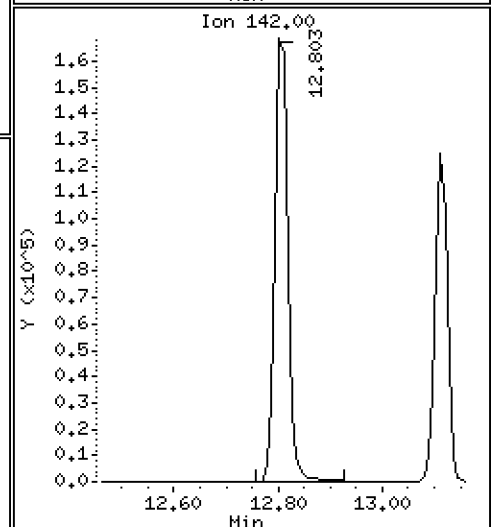
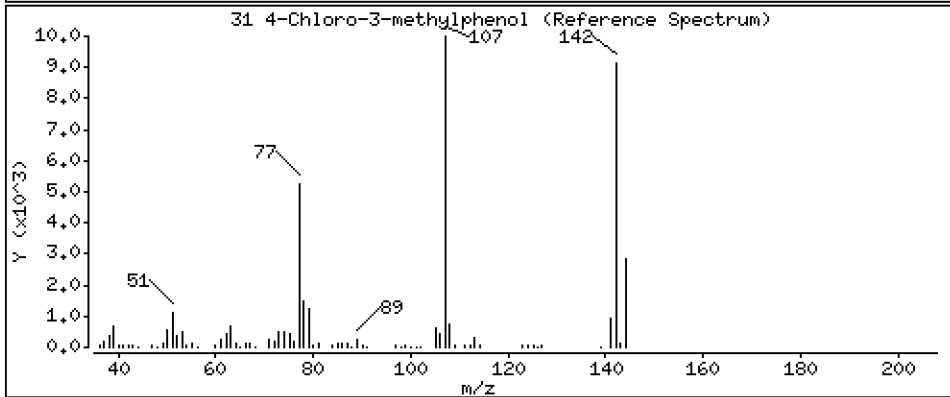
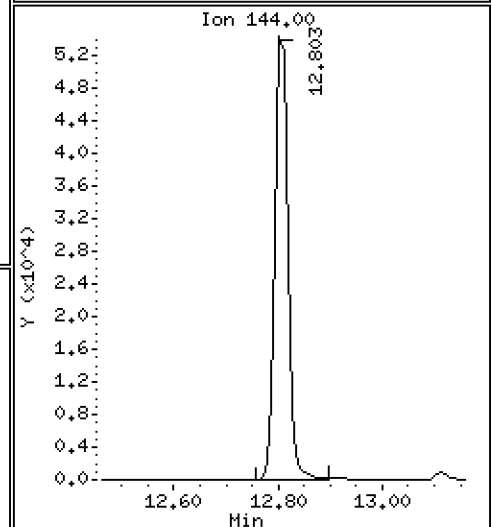
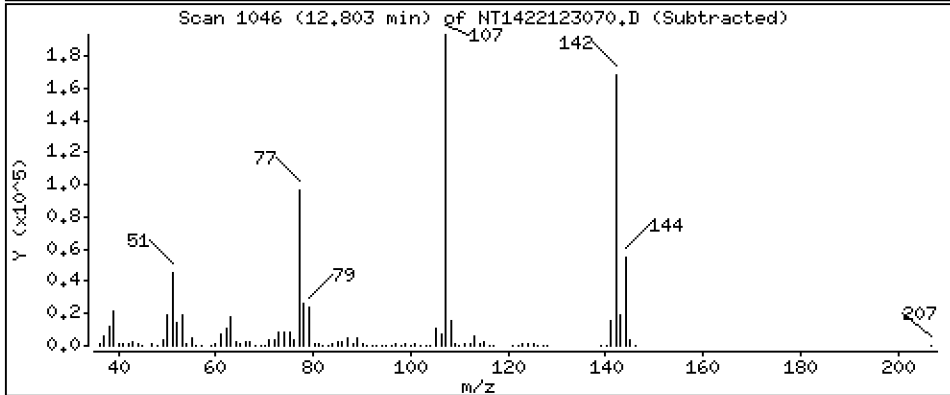
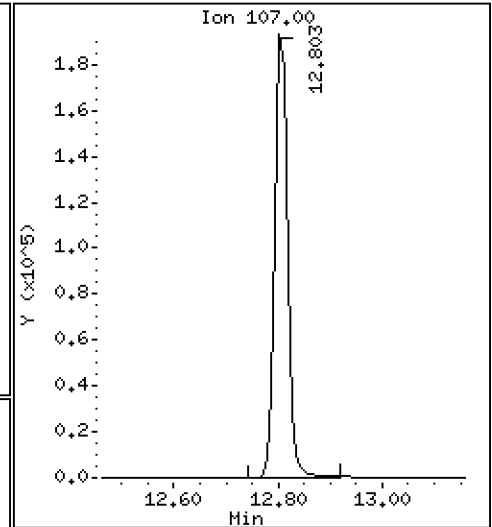
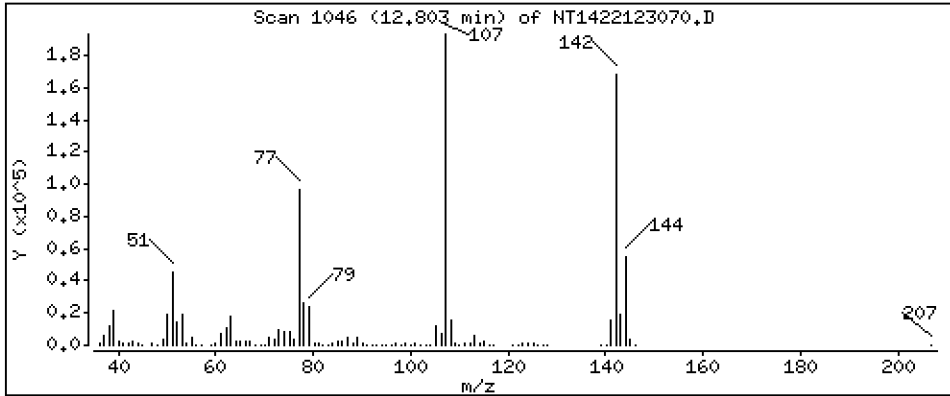
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 14,52 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

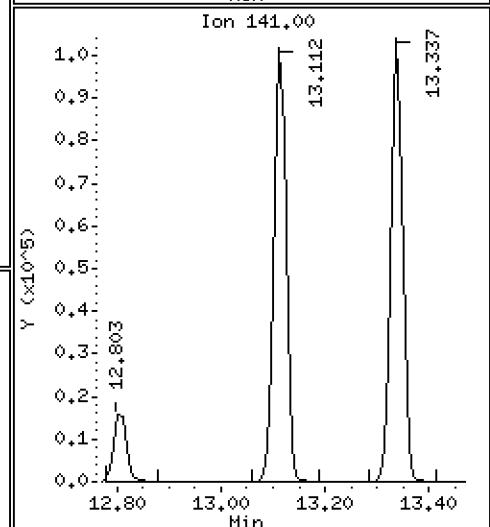
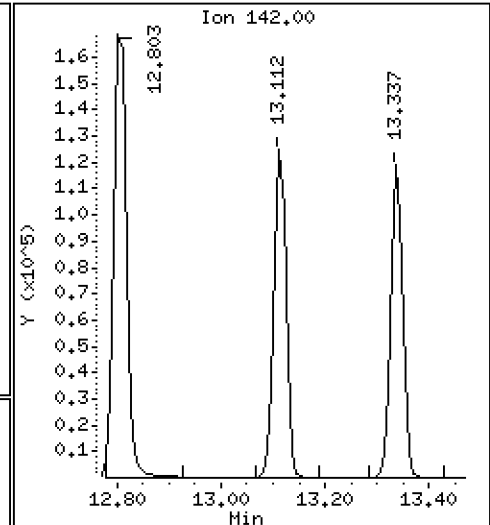
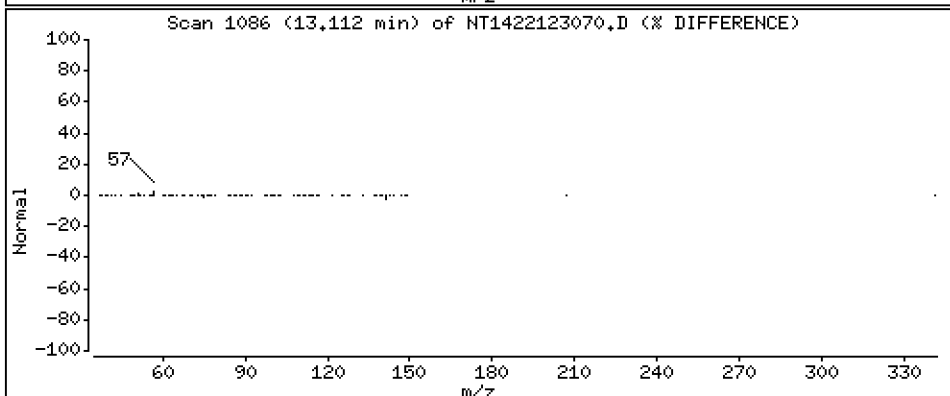
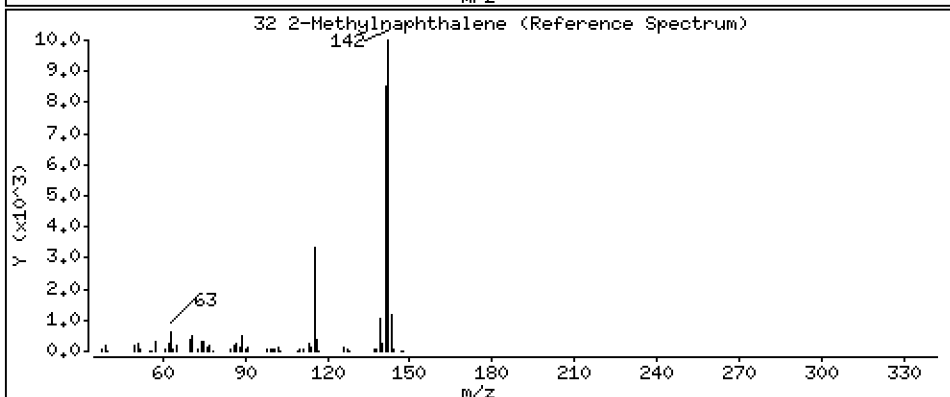
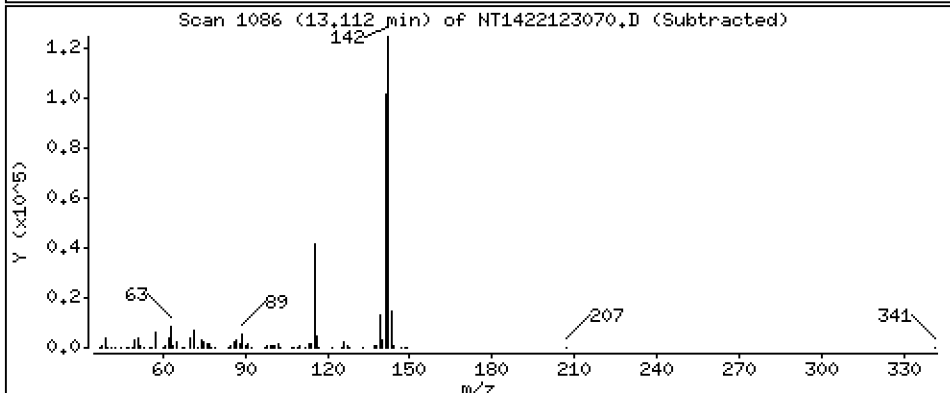
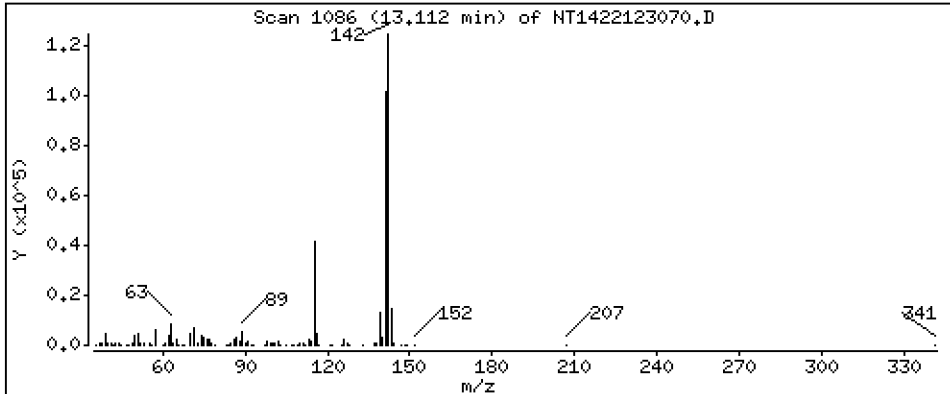
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,451 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

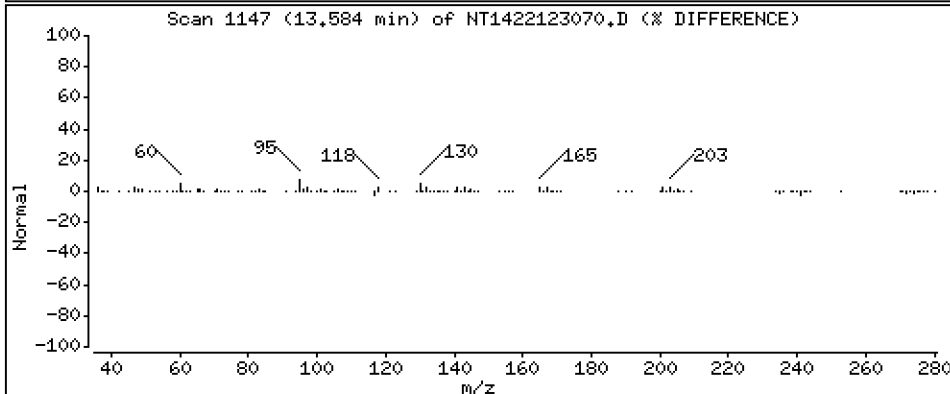
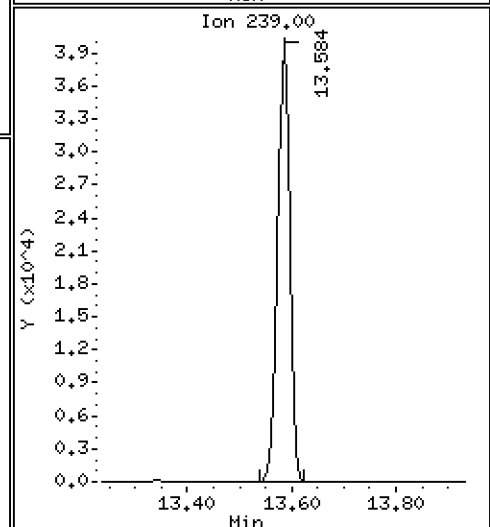
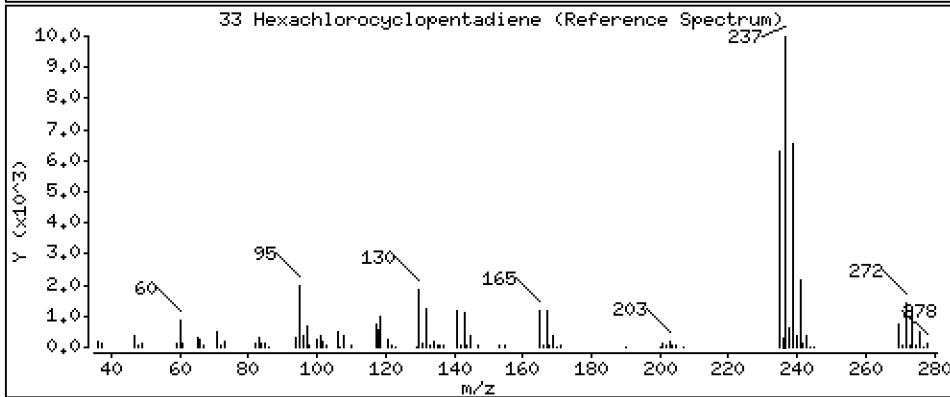
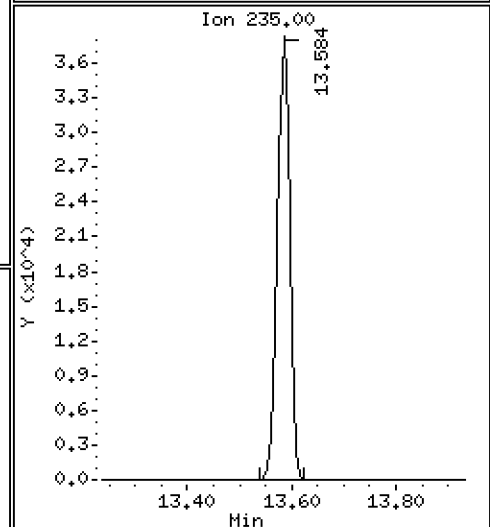
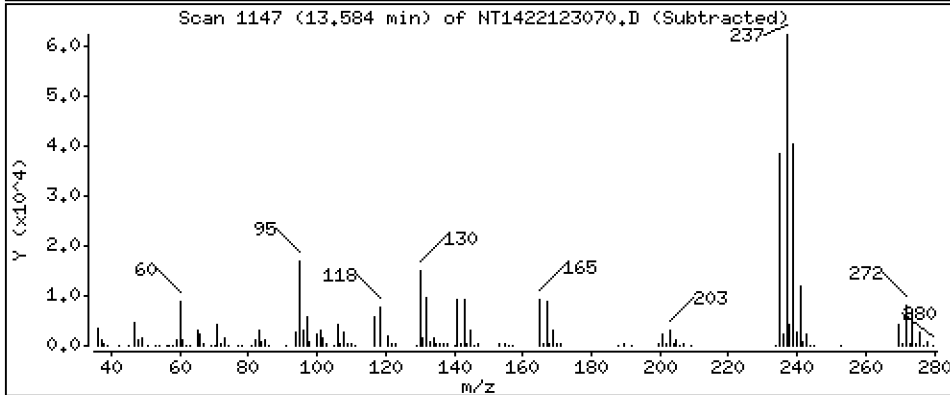
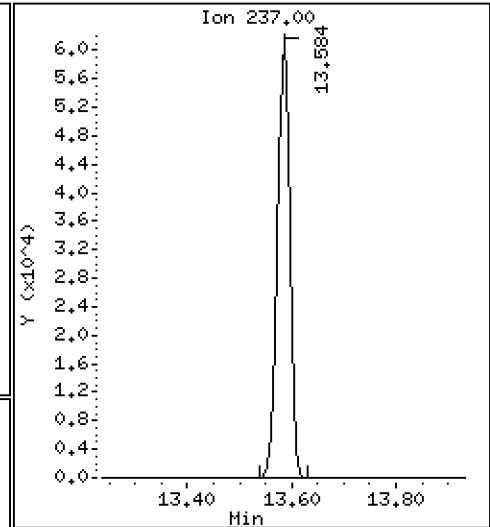
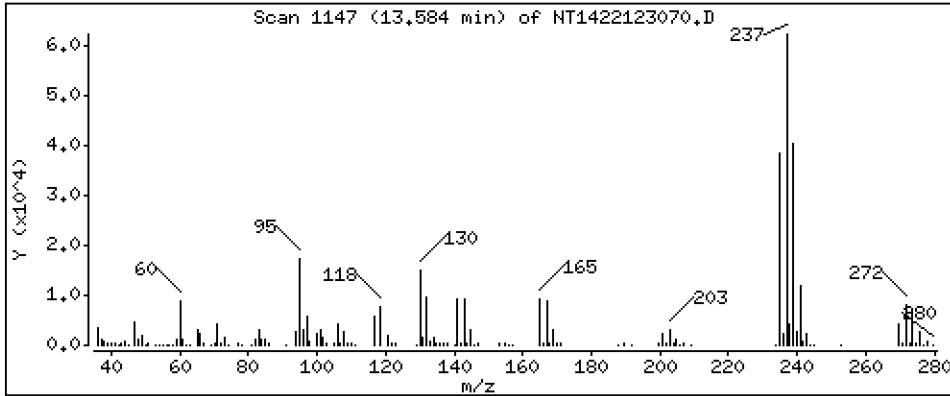
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 7,918 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

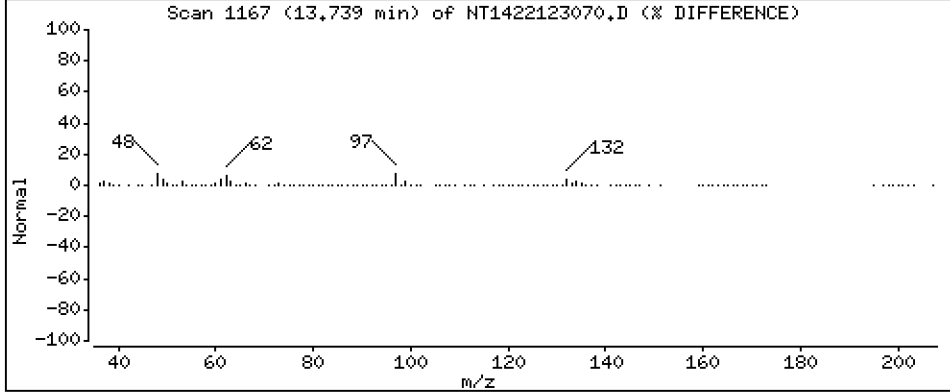
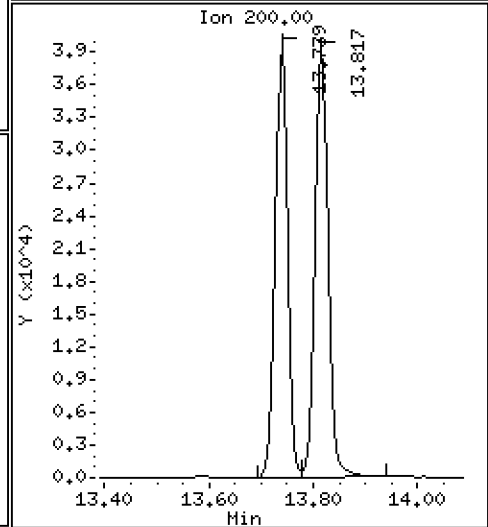
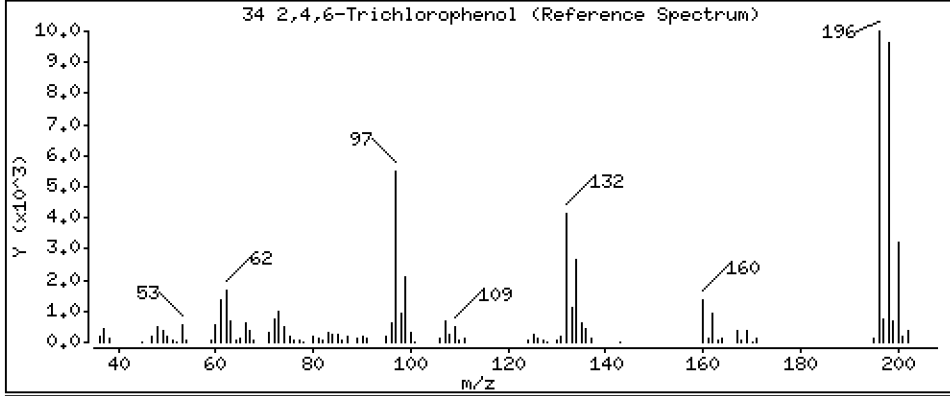
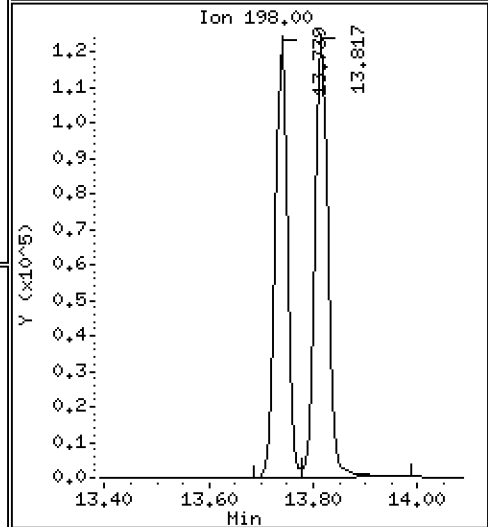
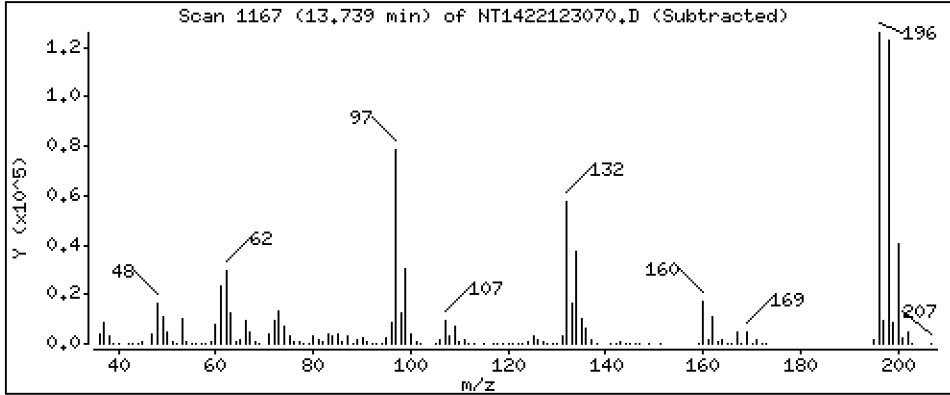
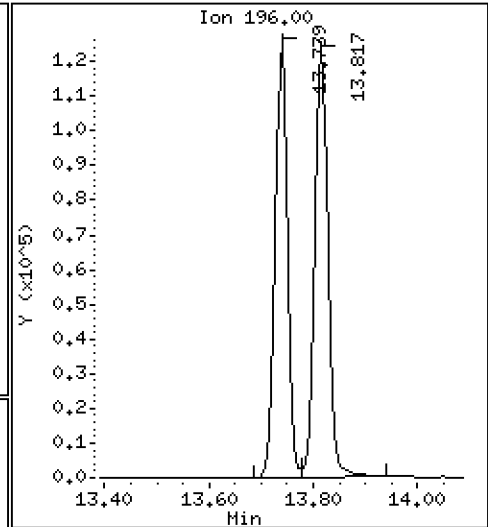
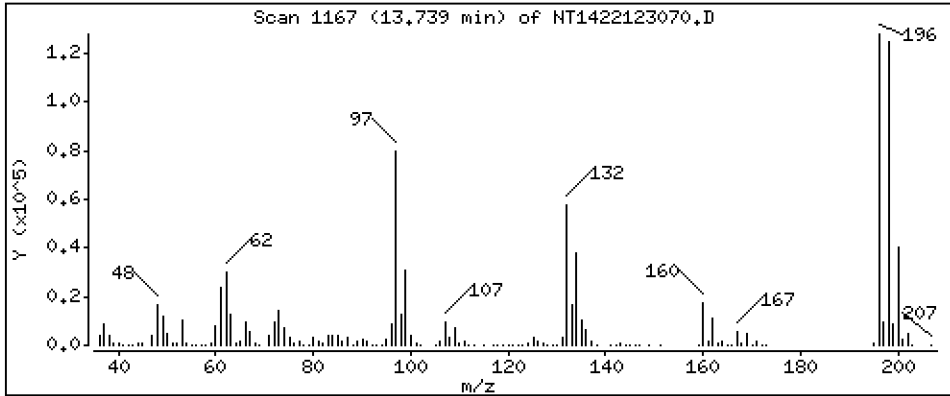
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 14,52 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

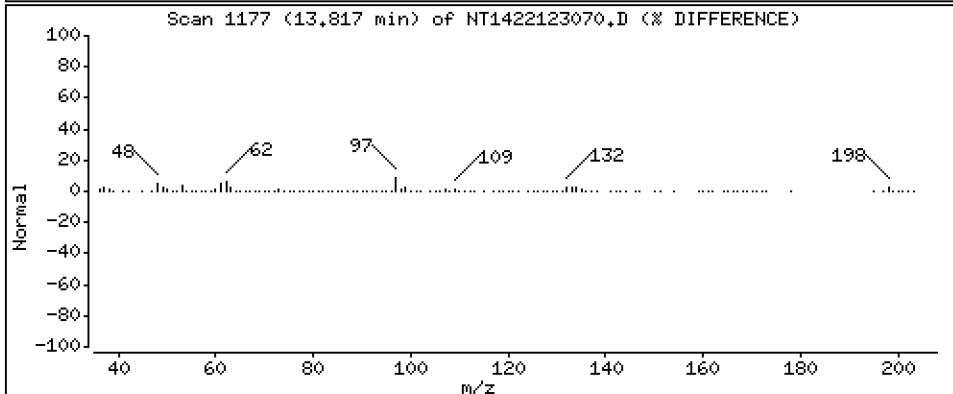
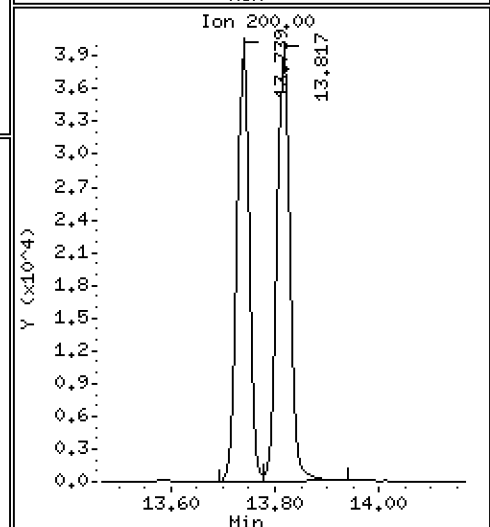
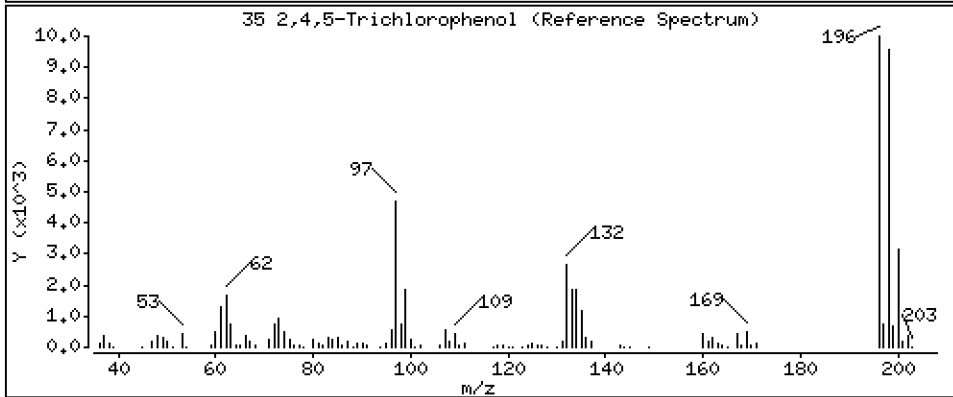
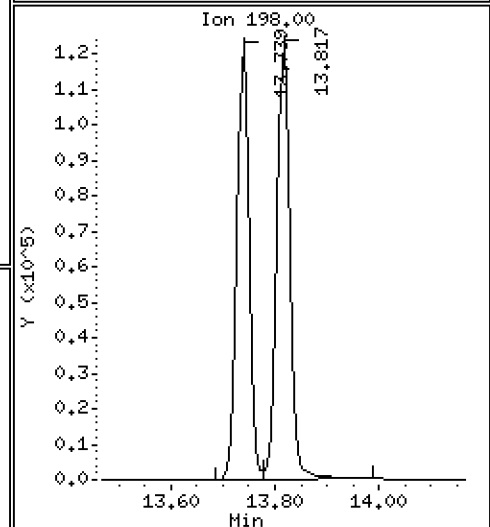
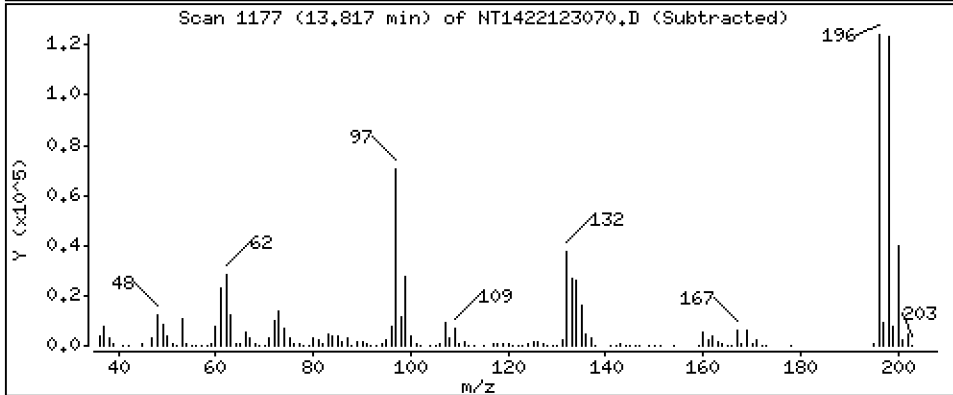
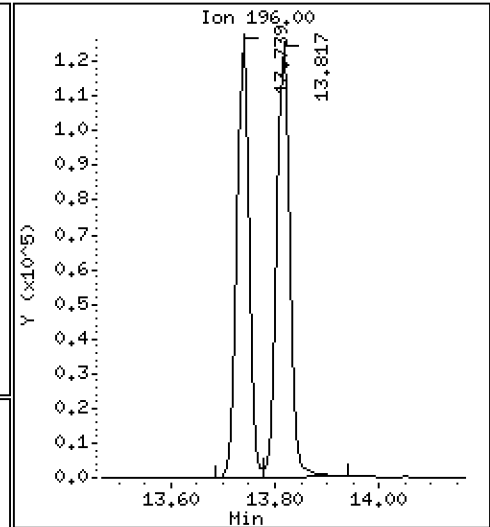
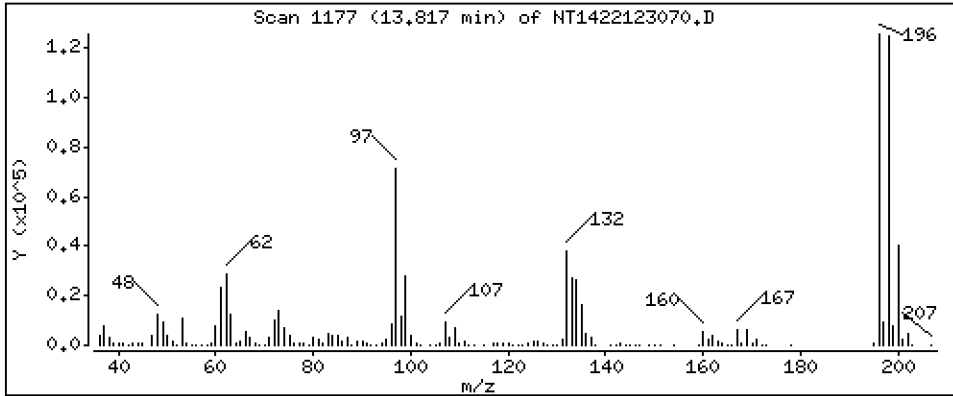
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 13.46 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

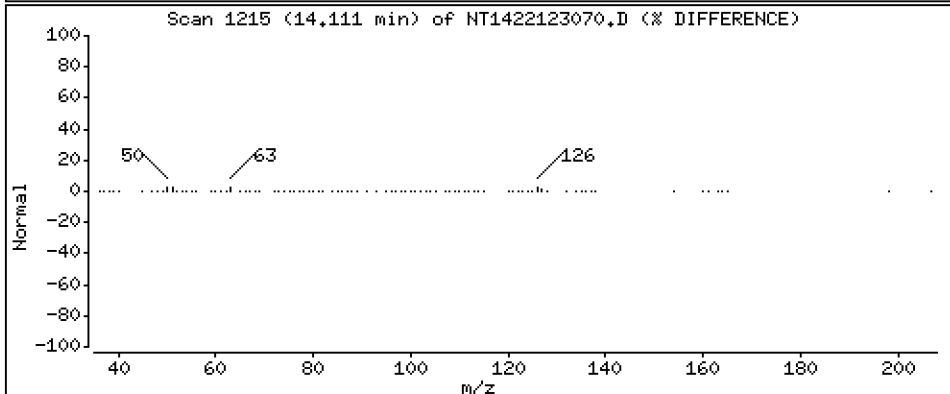
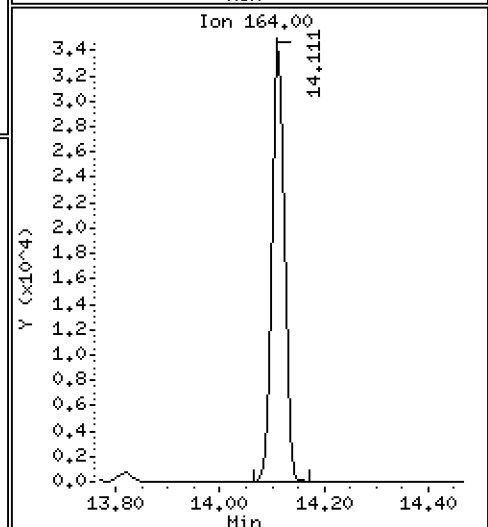
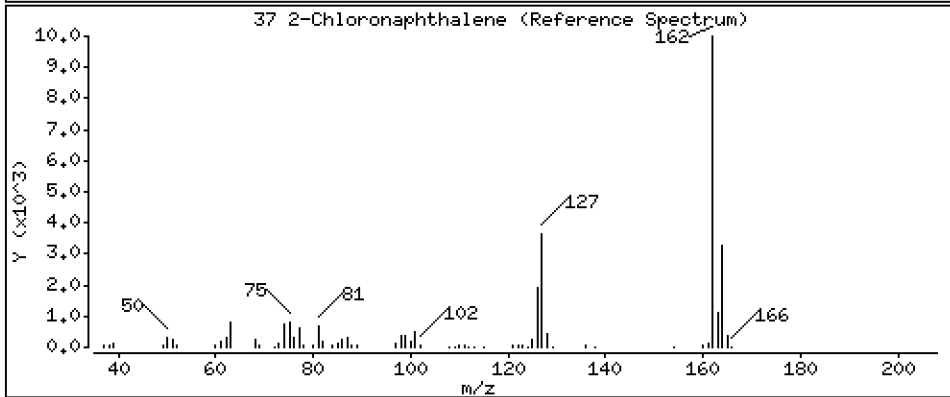
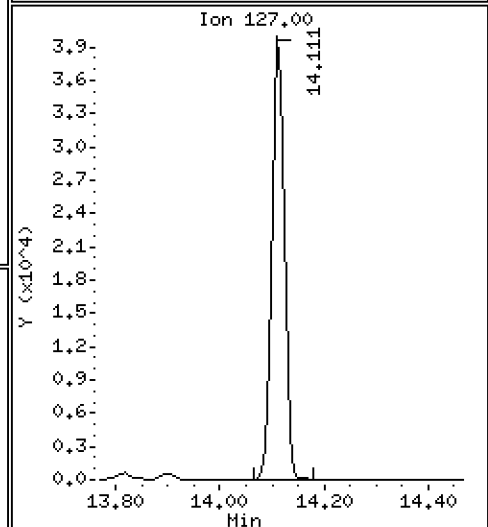
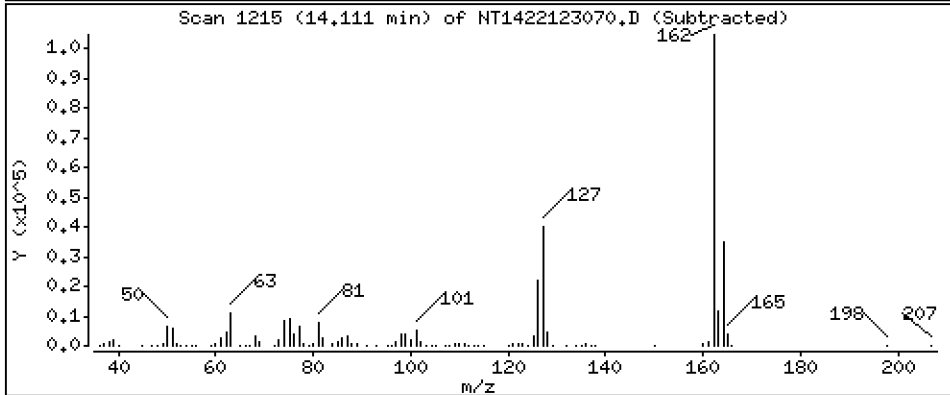
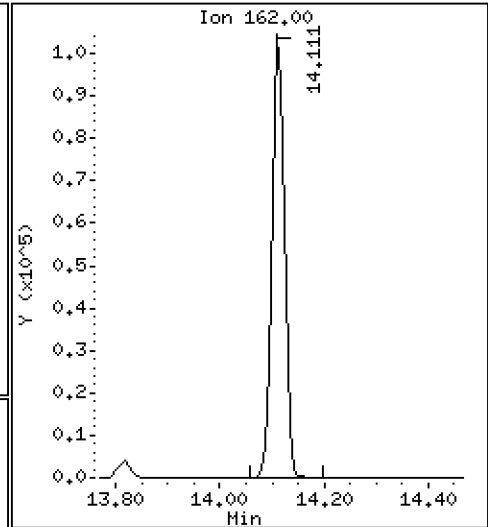
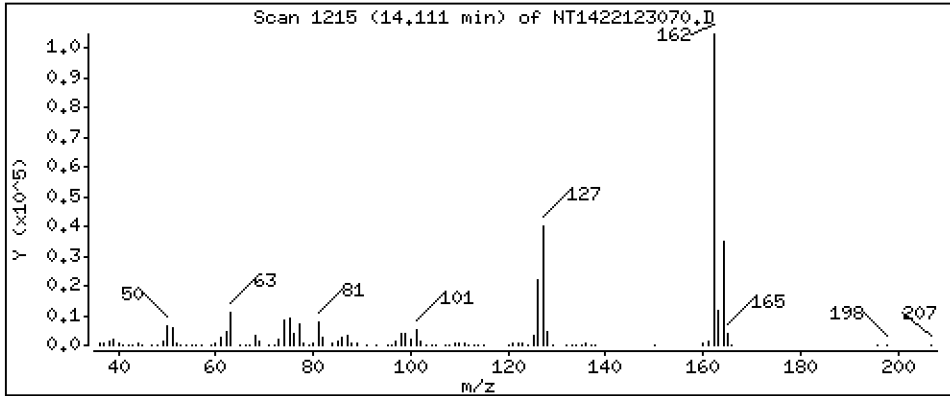
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 3,643 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

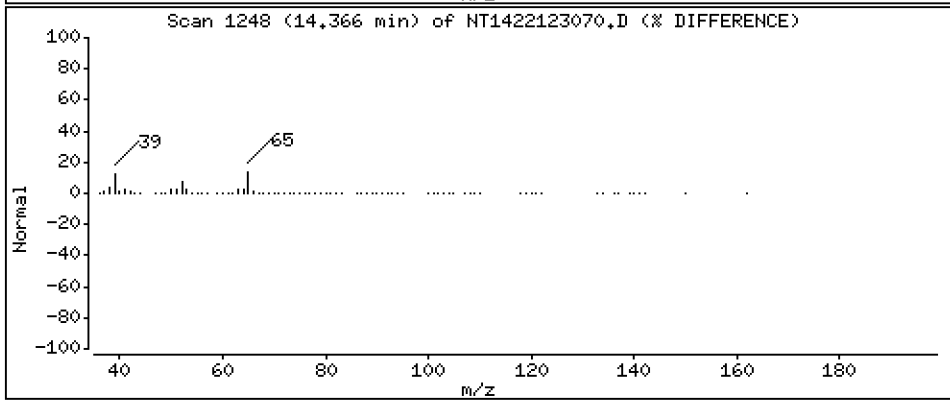
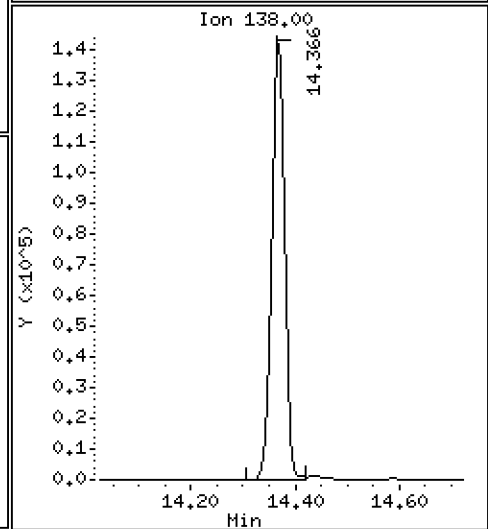
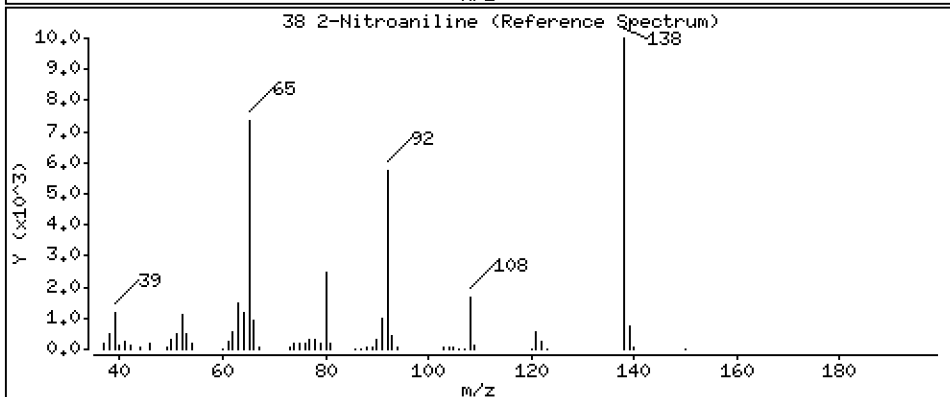
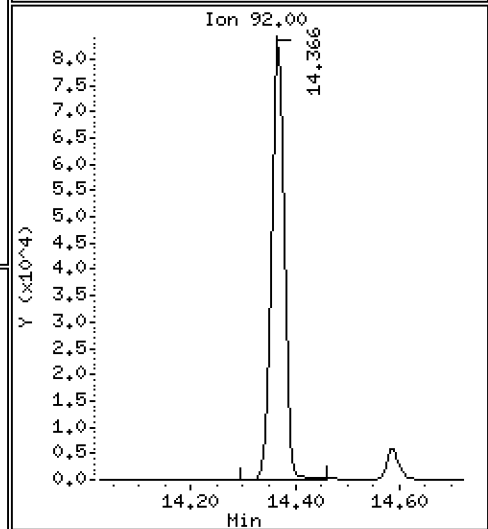
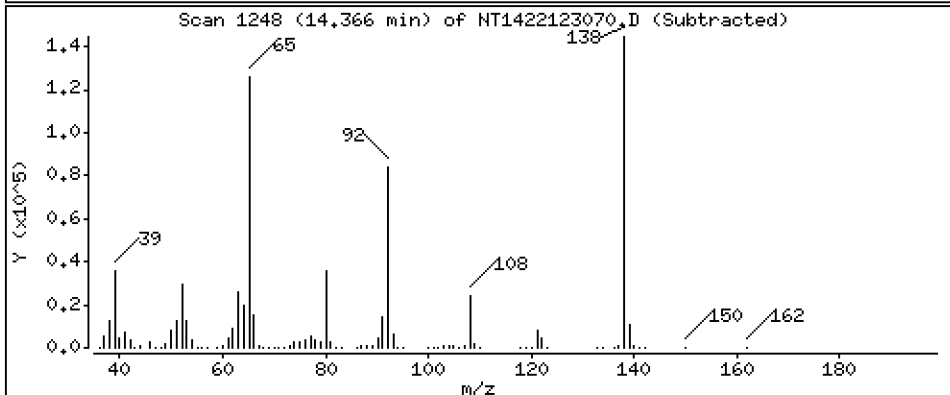
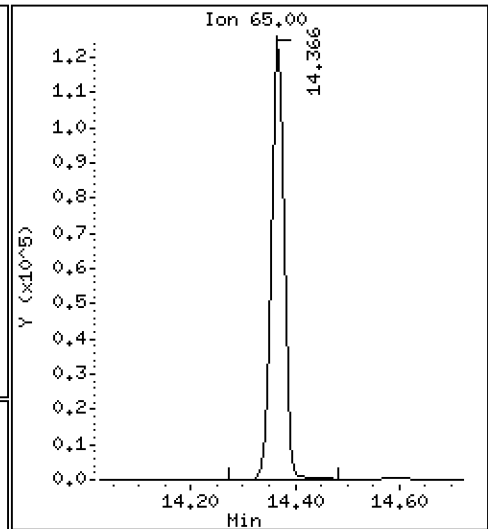
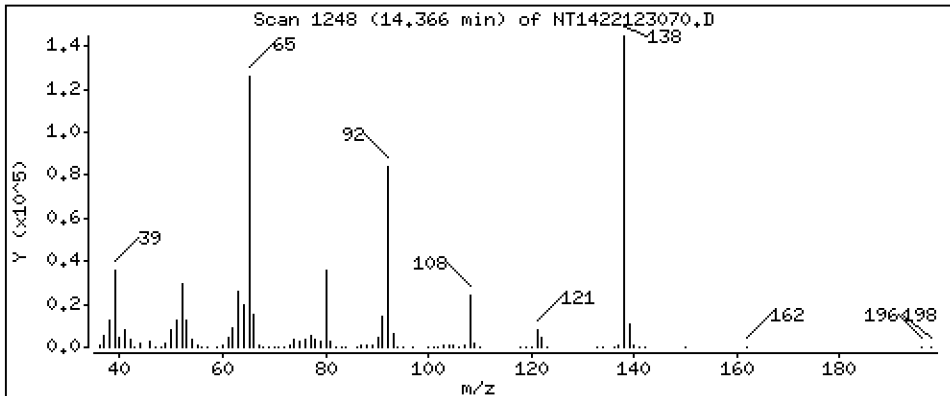
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

38 2-Nitroaniline

Concentration: 17.20 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

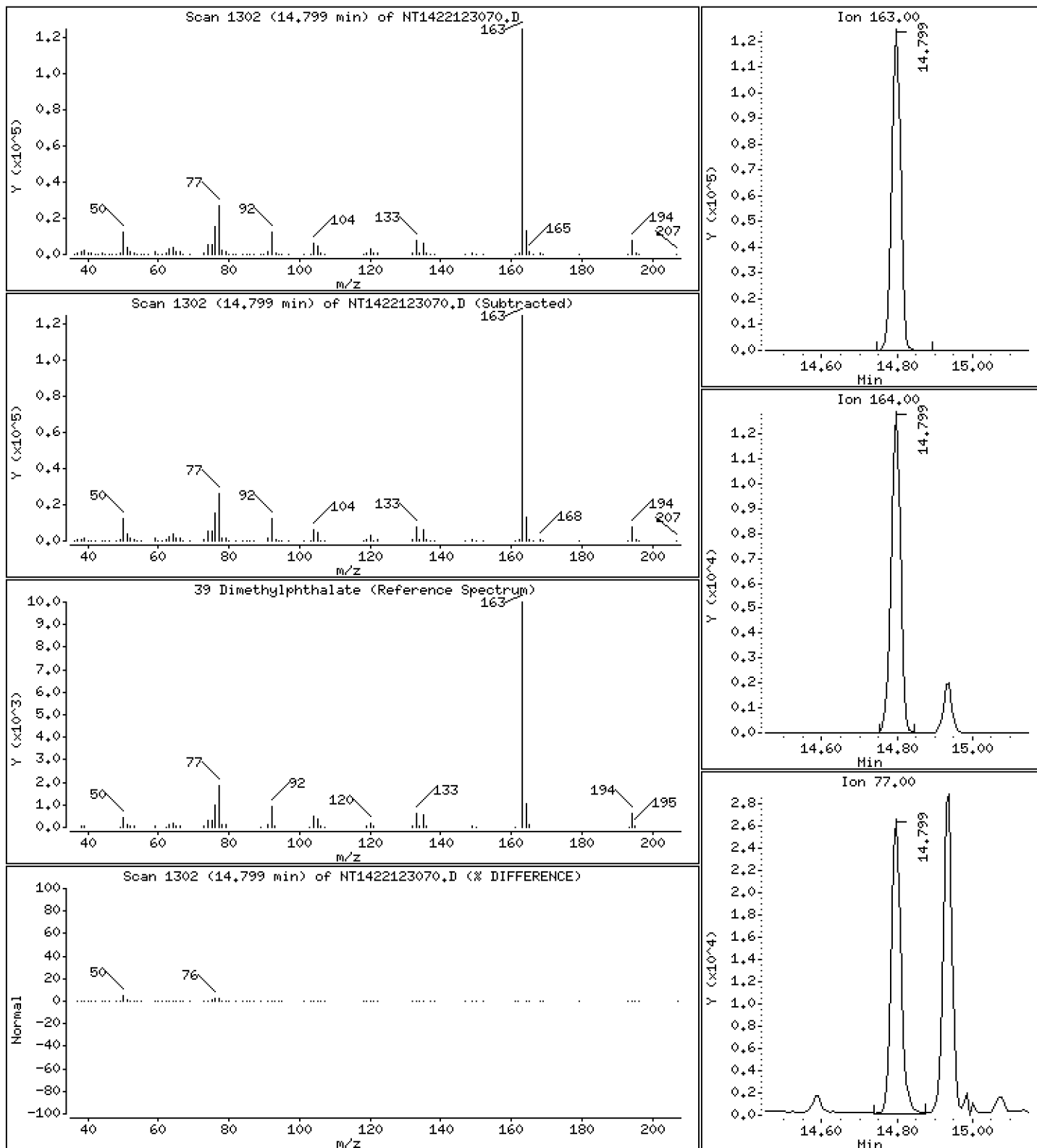
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,275 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

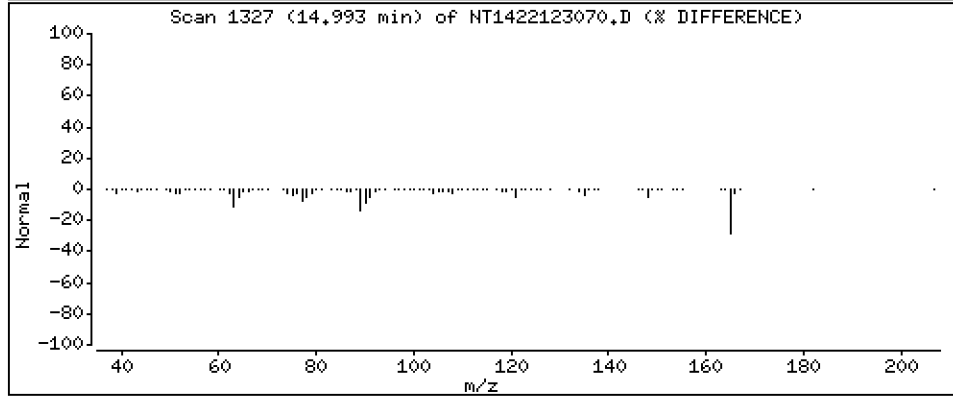
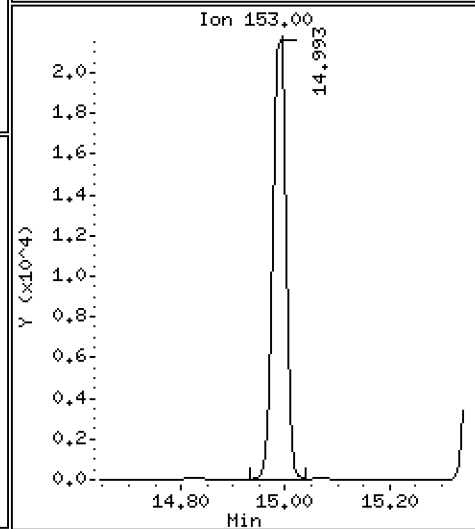
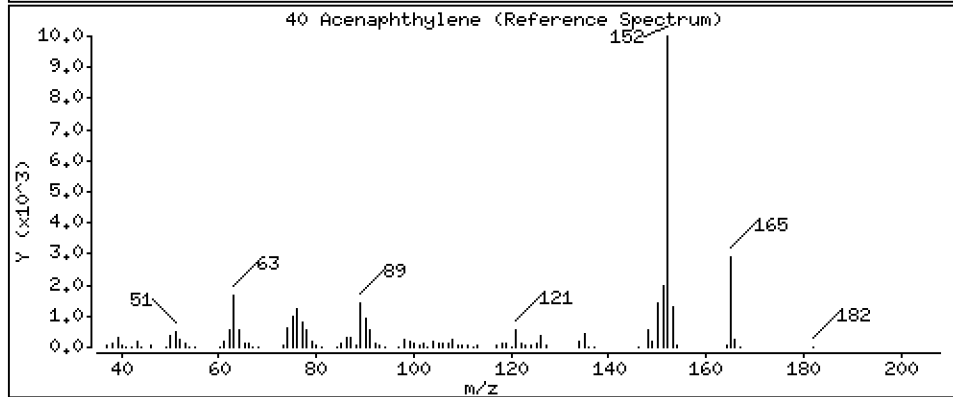
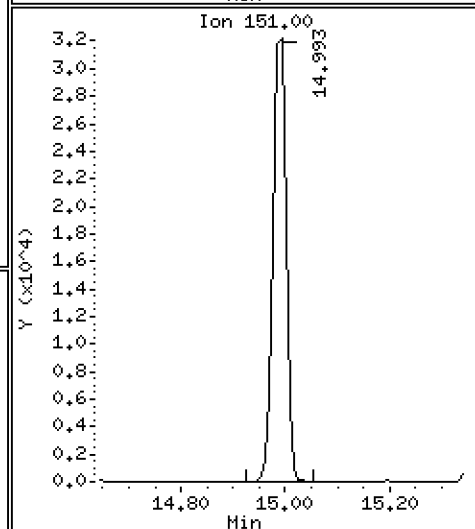
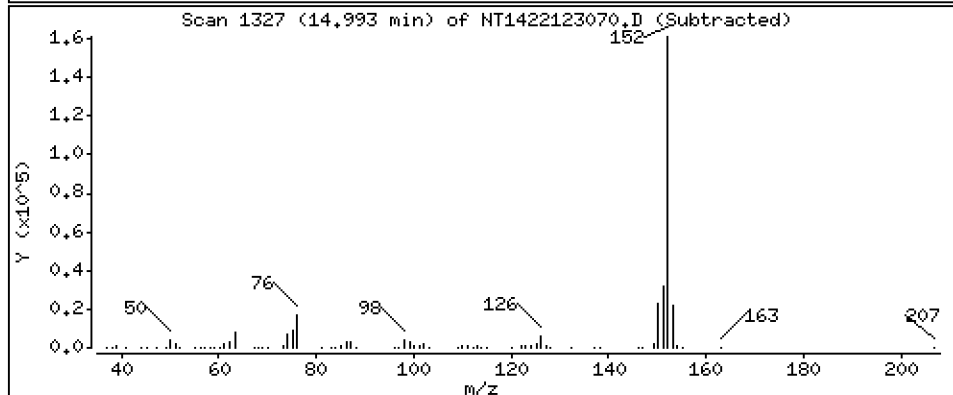
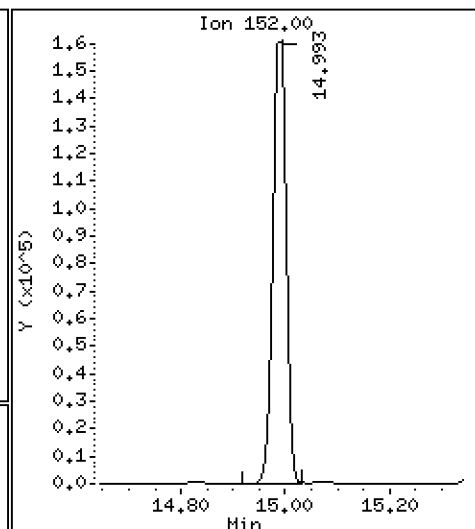
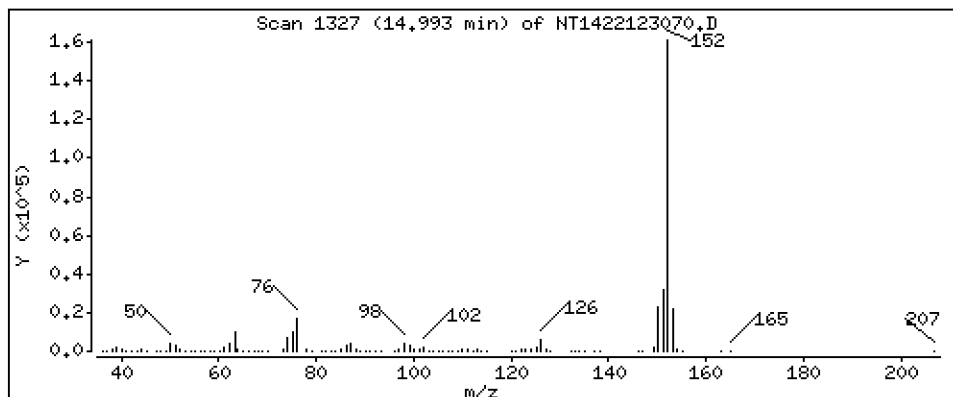
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 3,846 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

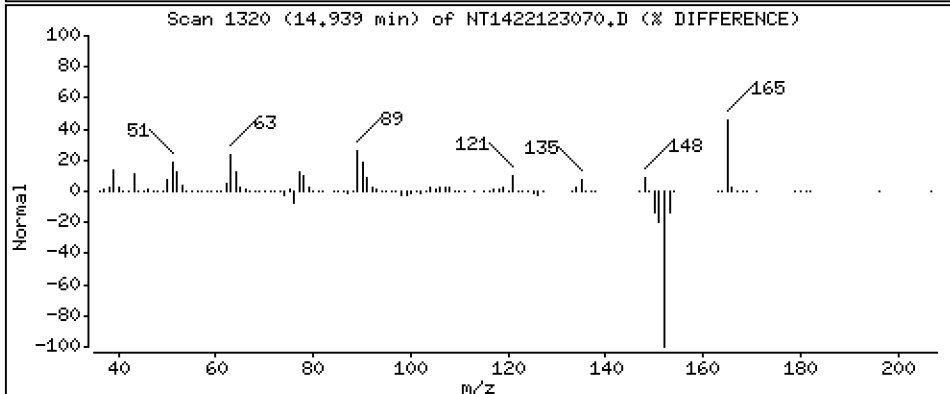
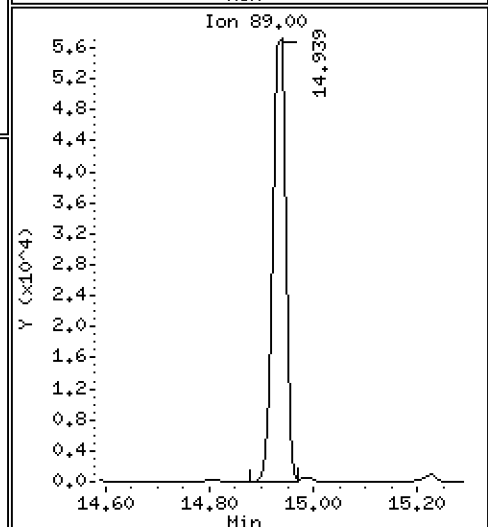
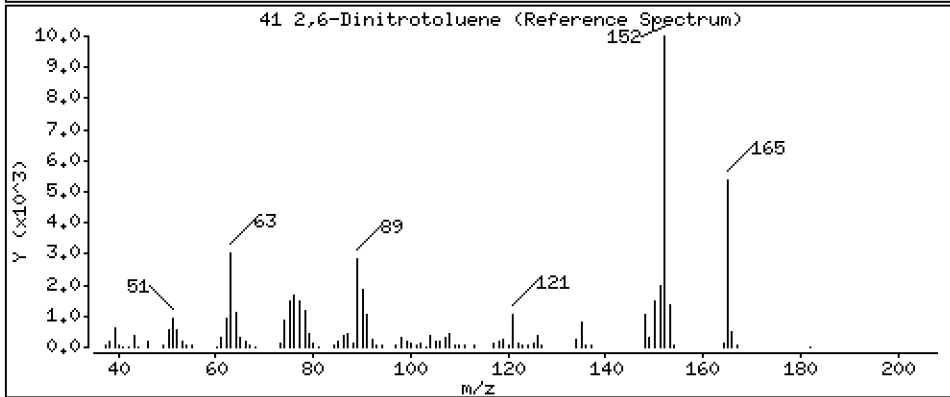
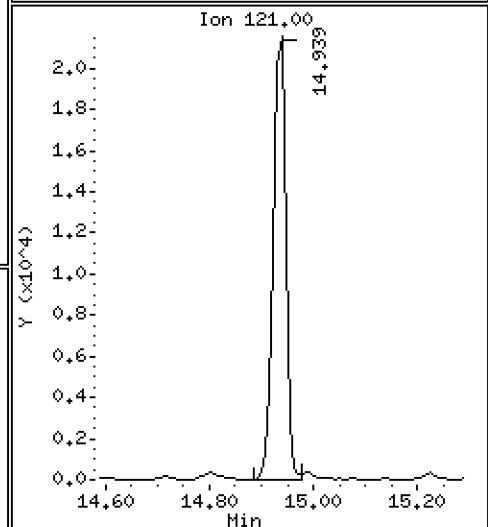
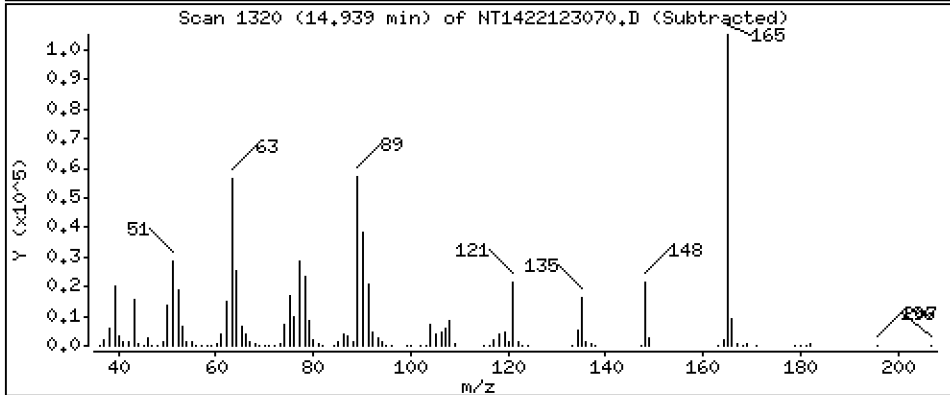
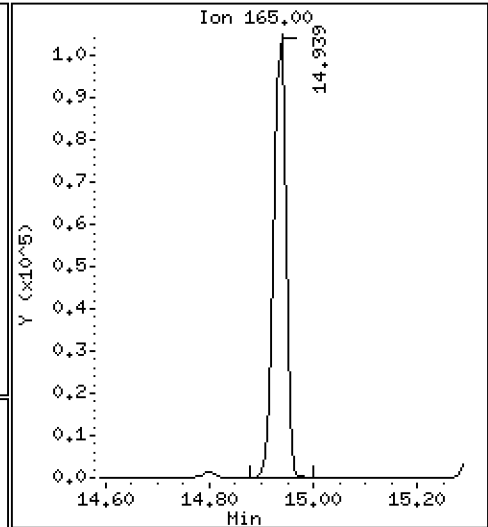
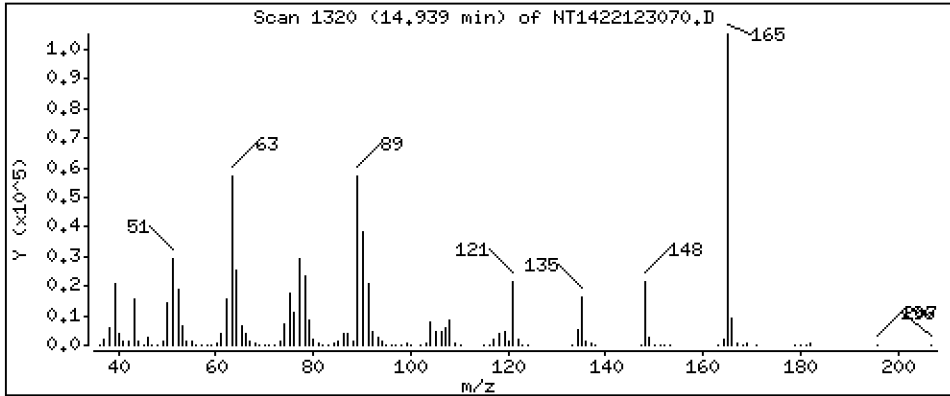
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 15,92 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

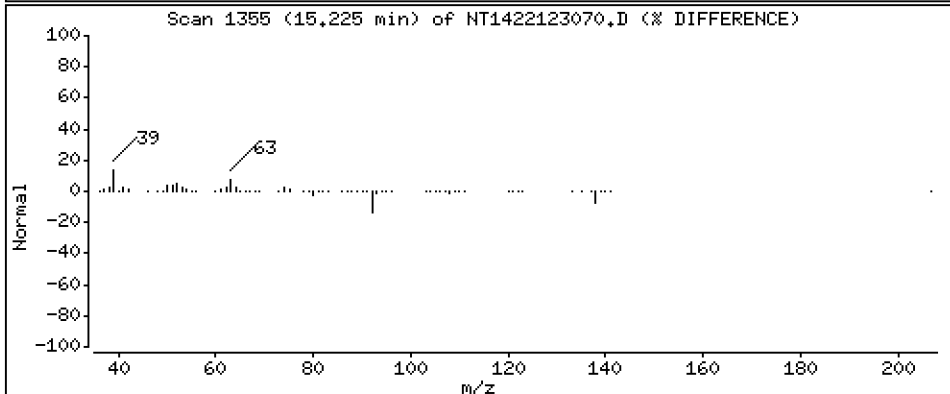
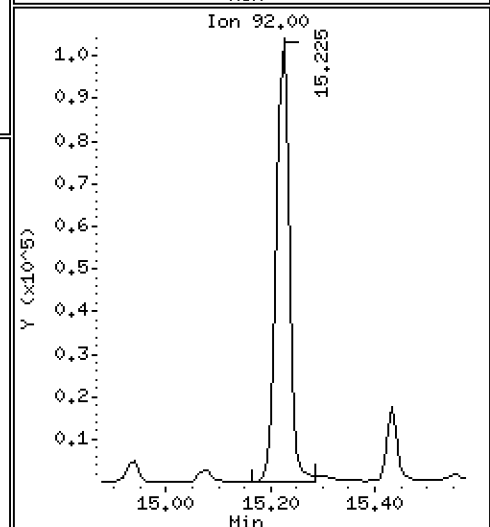
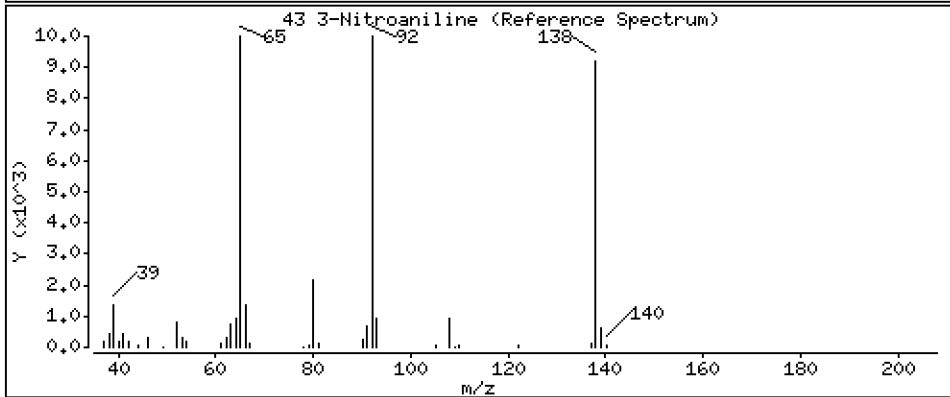
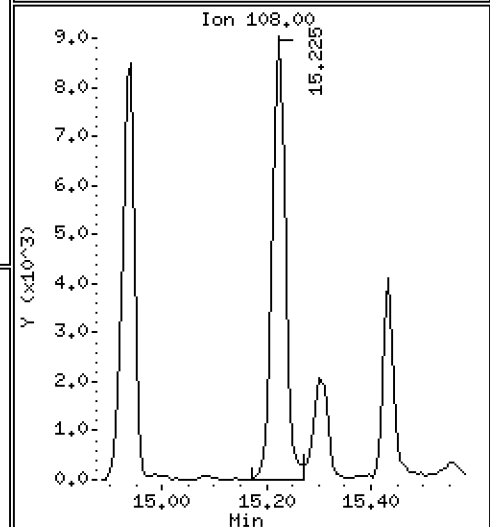
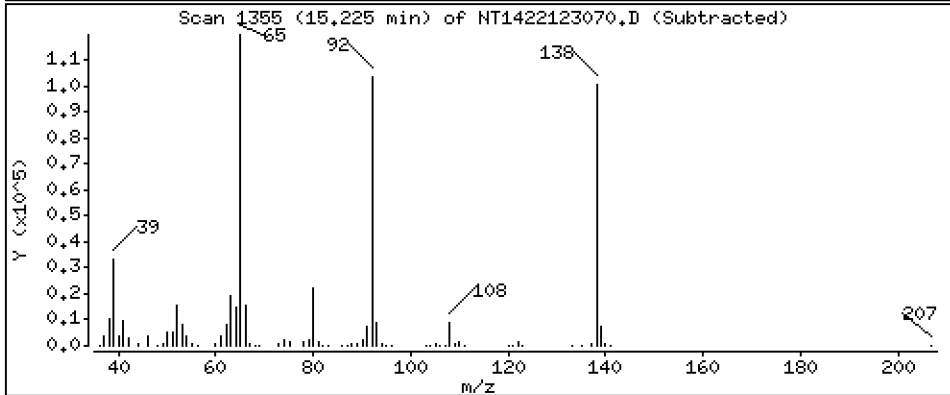
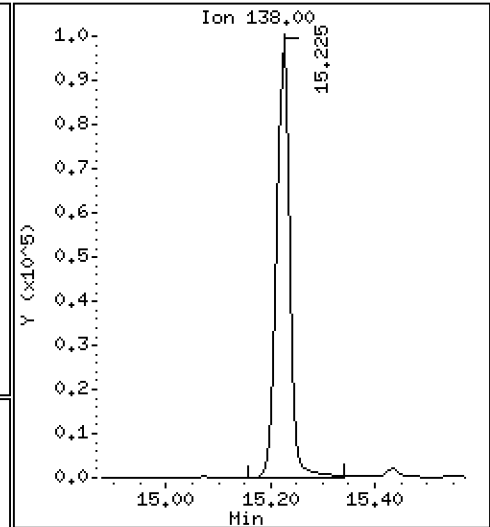
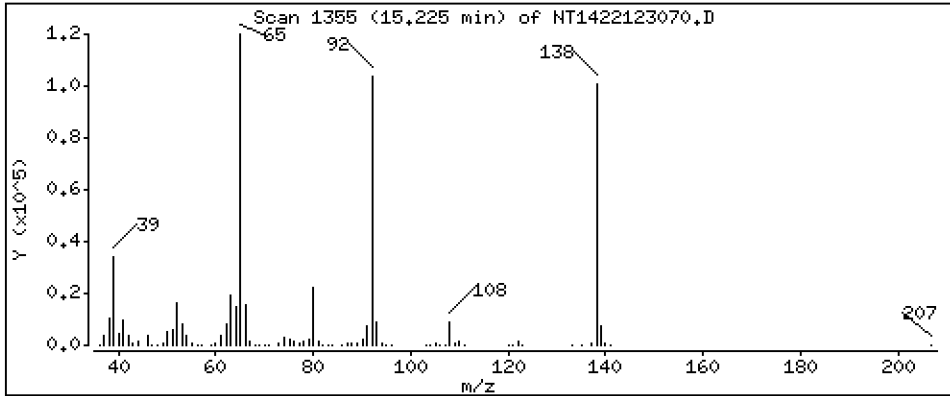
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 13,27 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

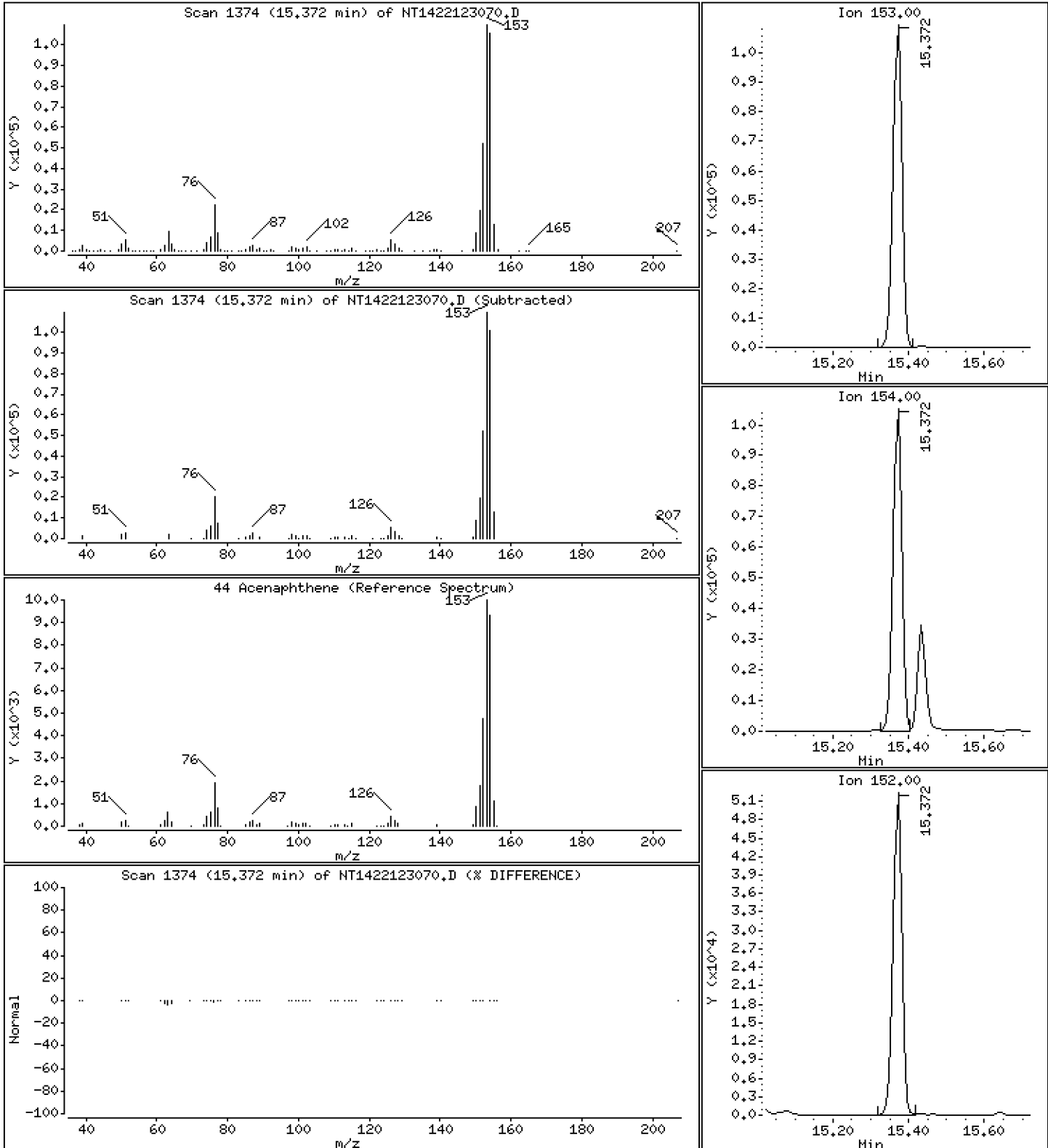
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 3,917 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

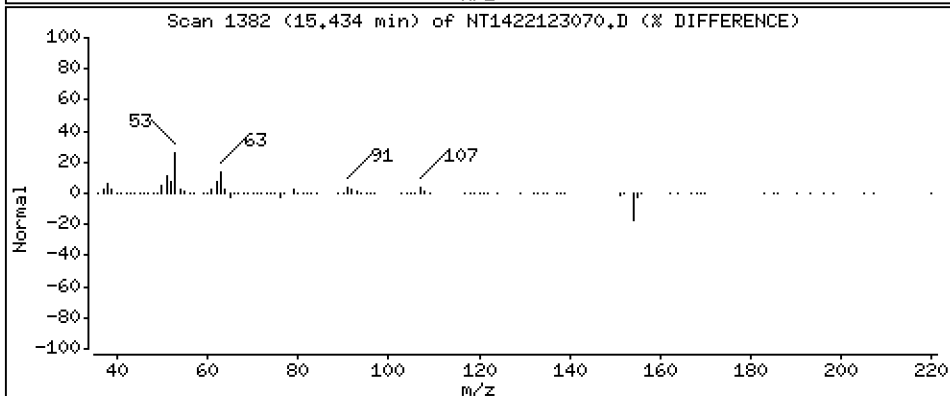
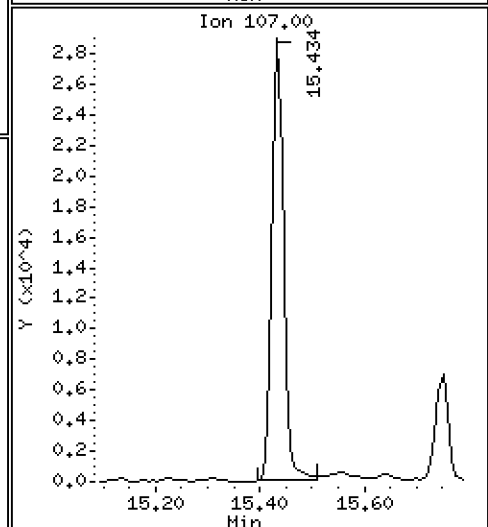
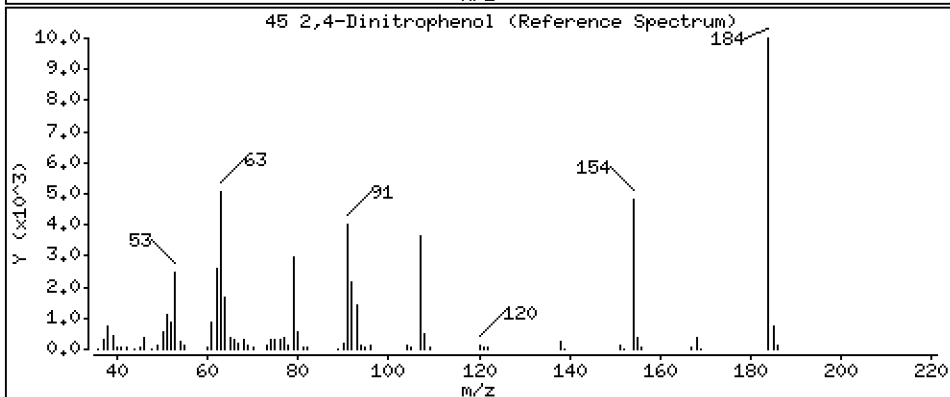
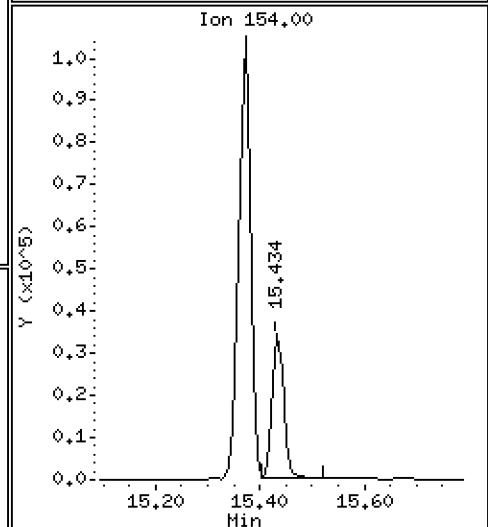
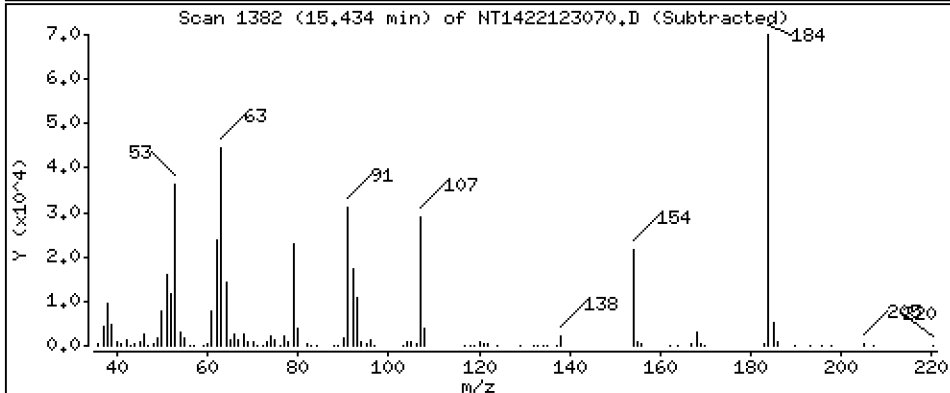
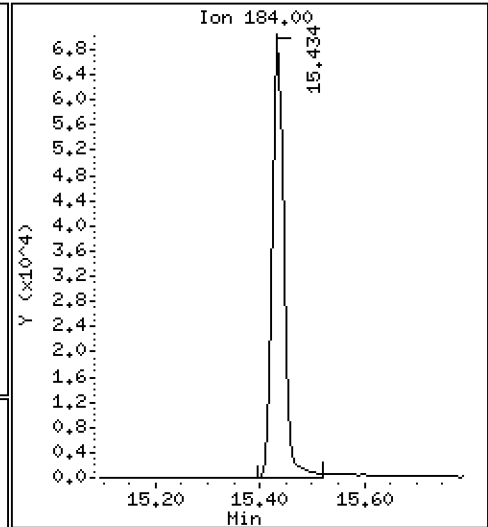
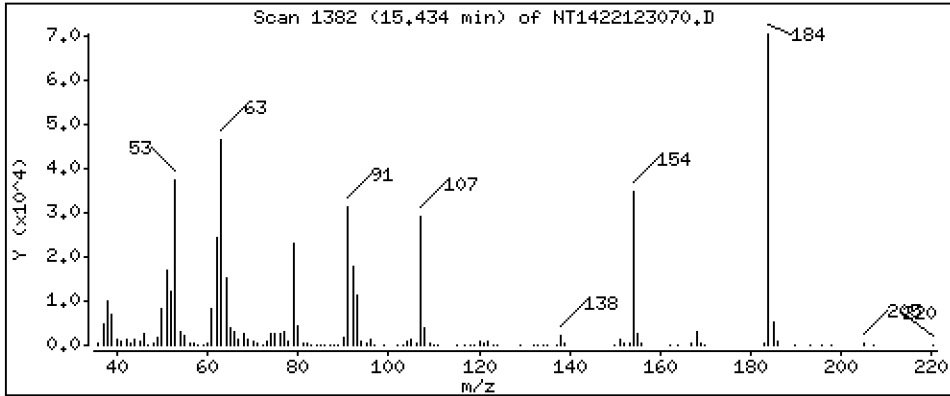
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 11,41 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

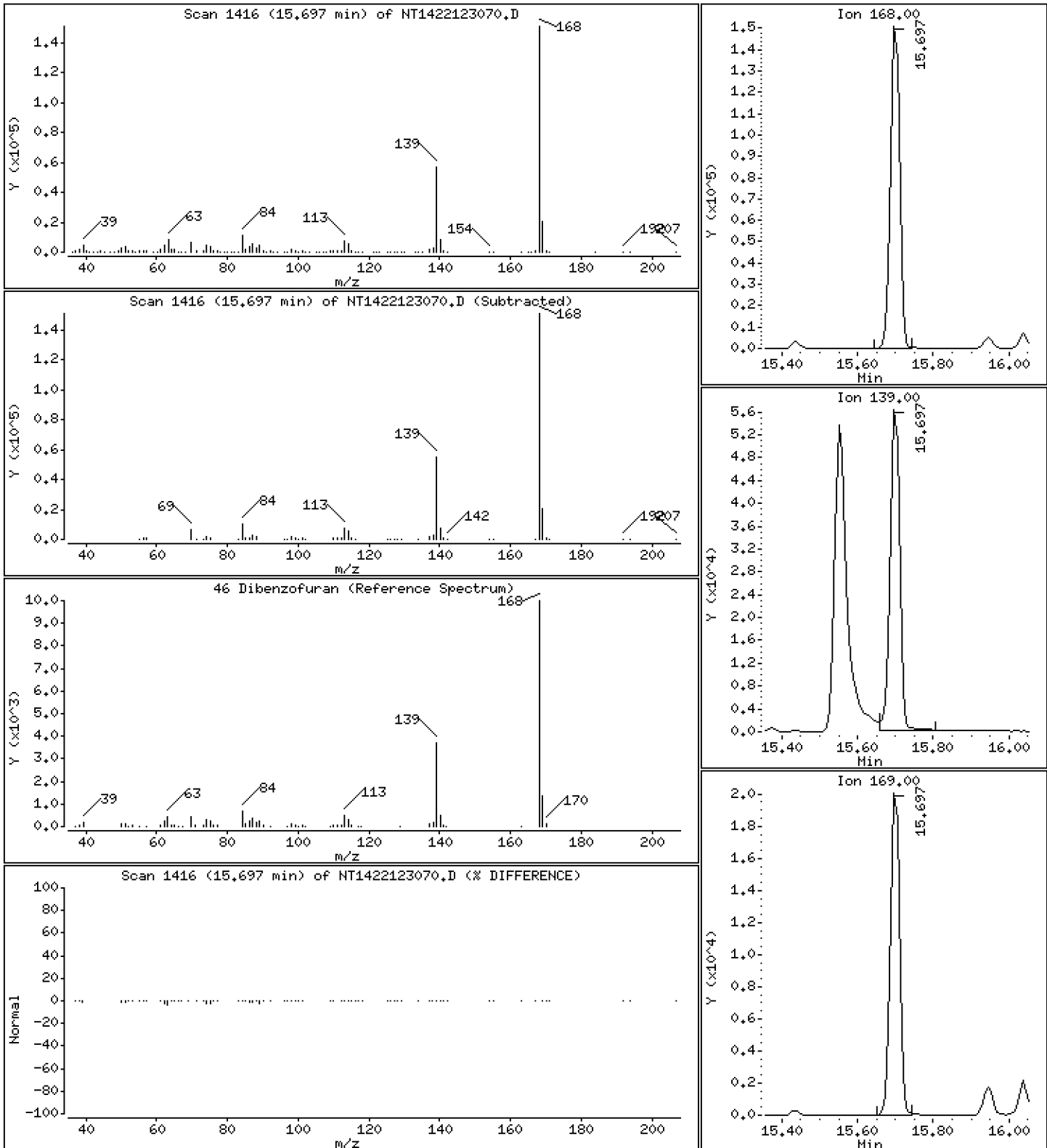
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 3,708 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

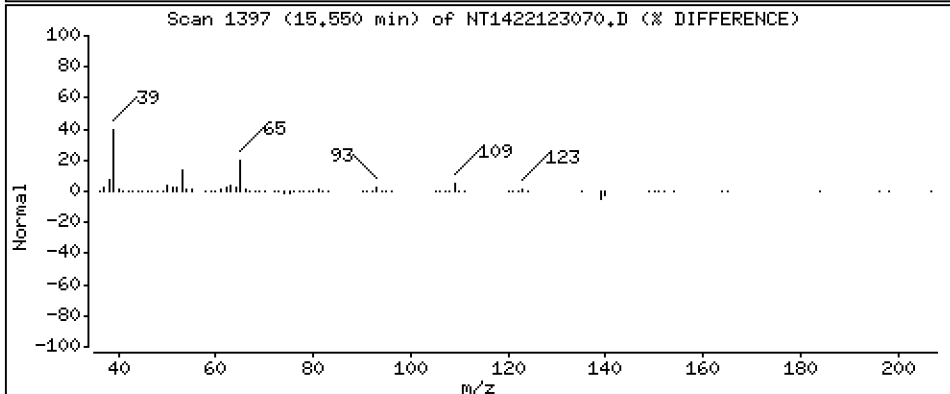
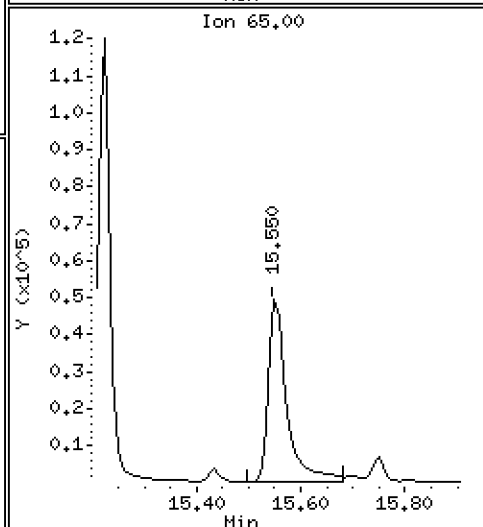
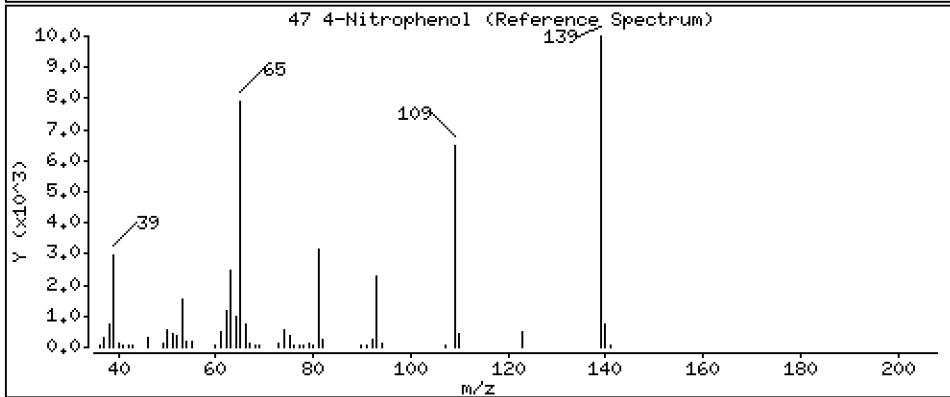
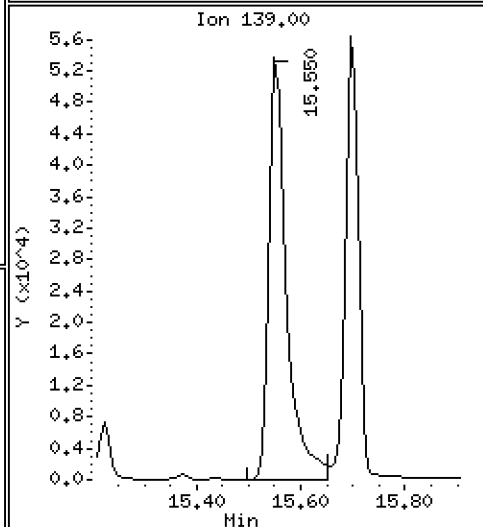
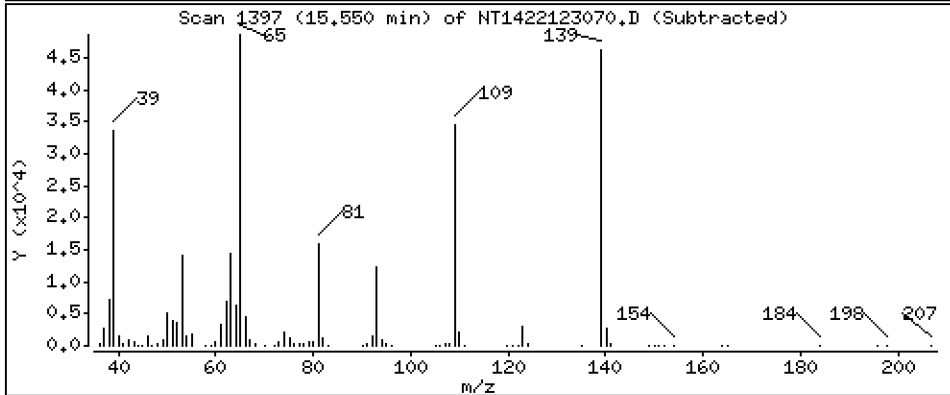
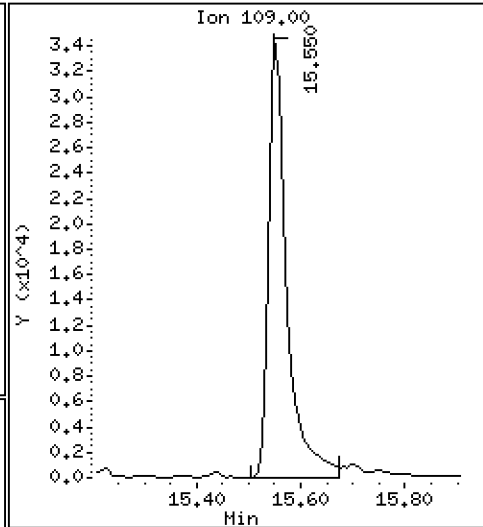
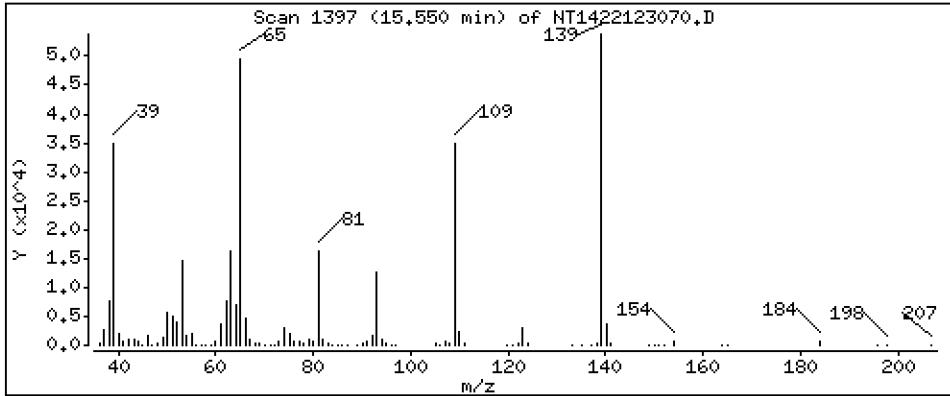
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 13,21 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

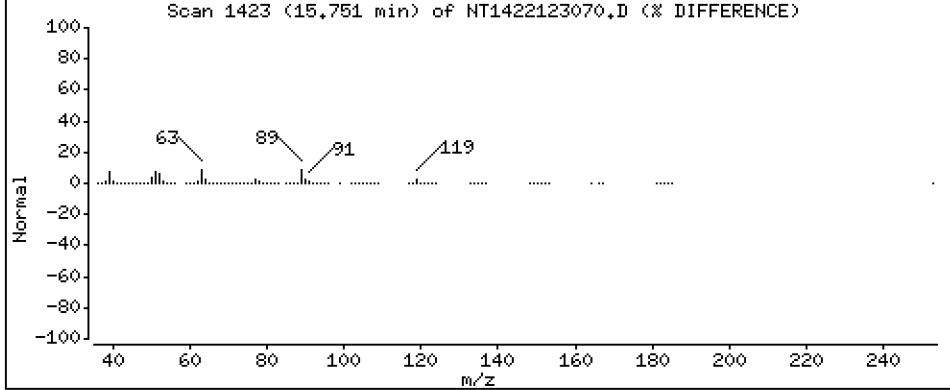
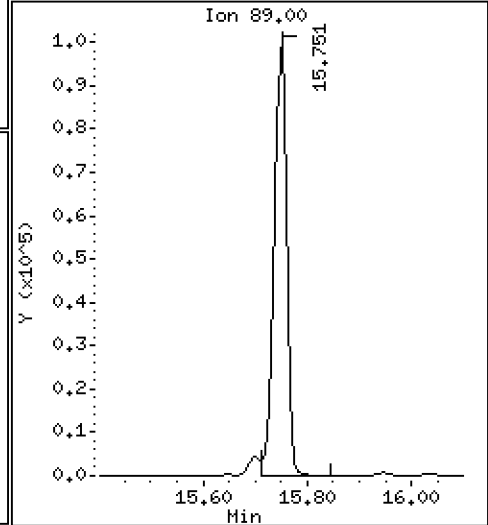
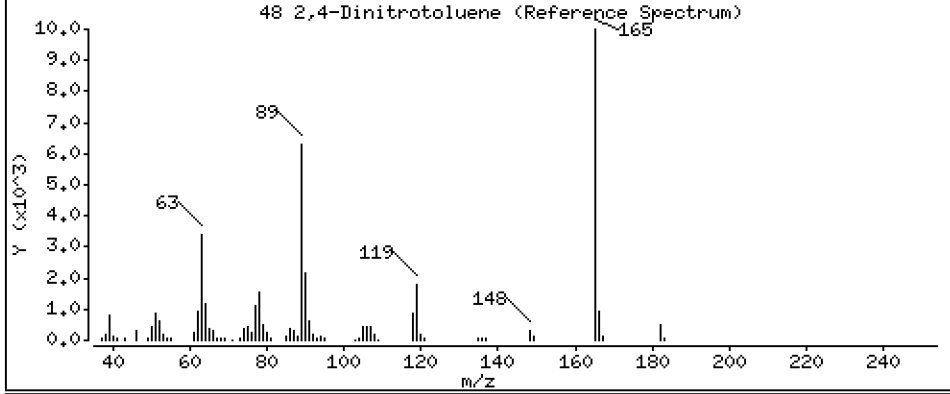
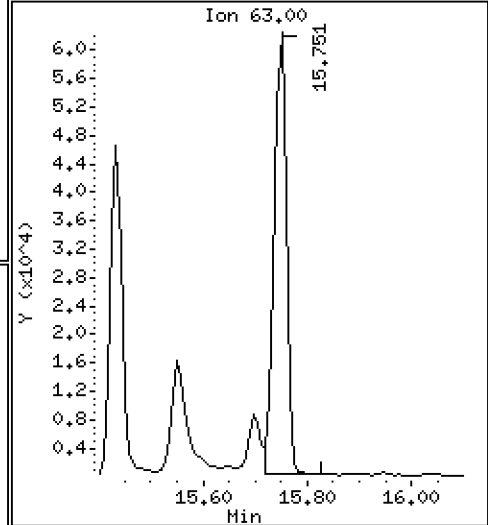
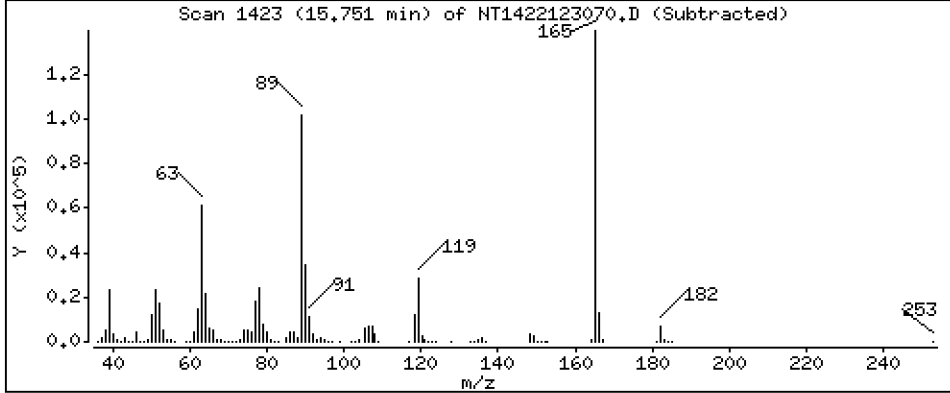
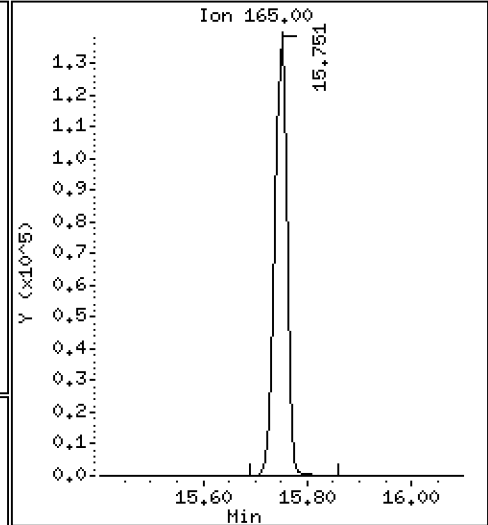
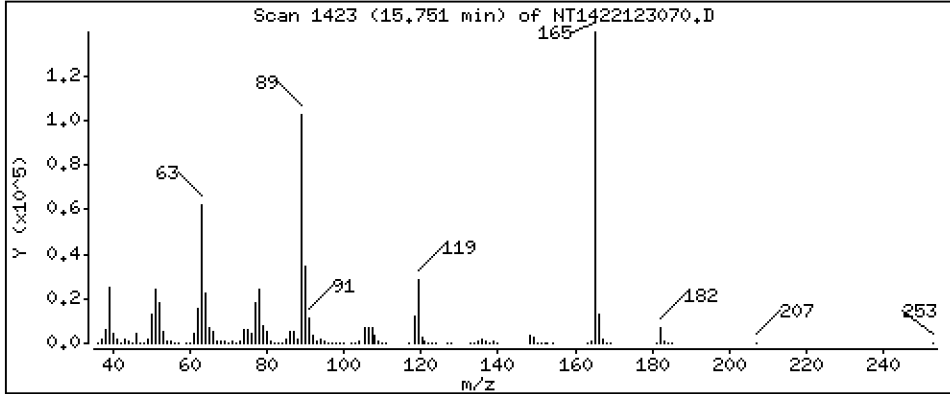
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 15,24 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

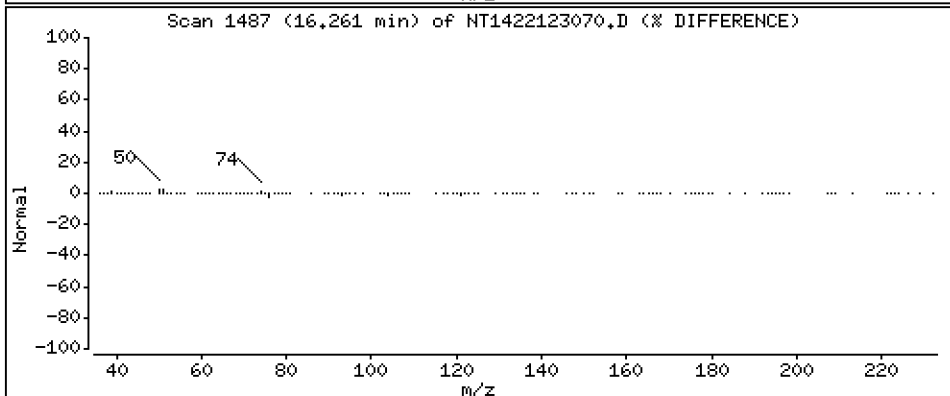
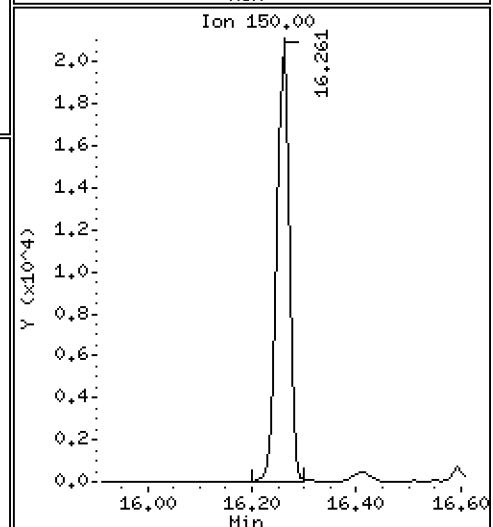
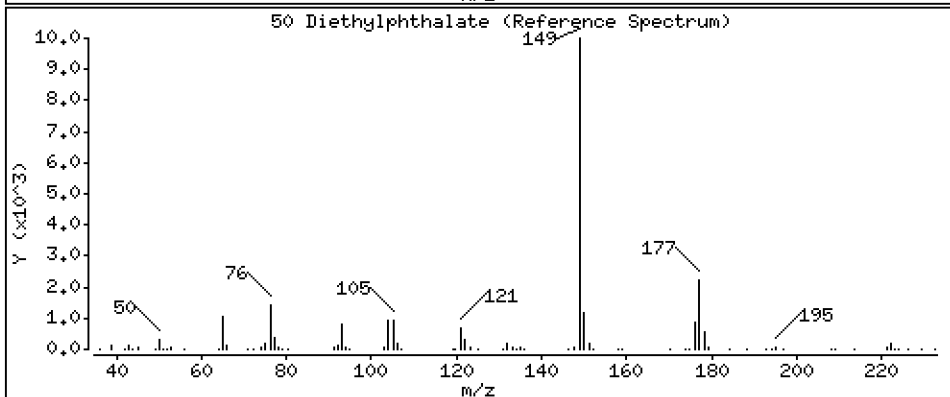
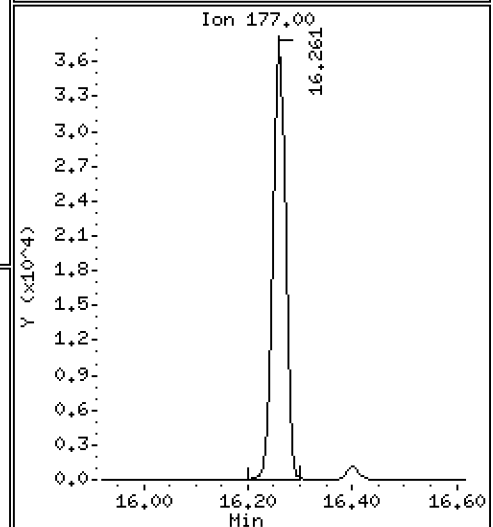
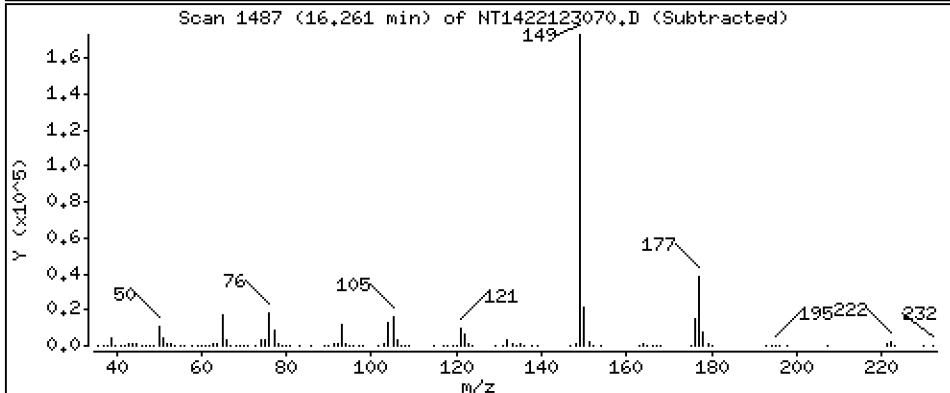
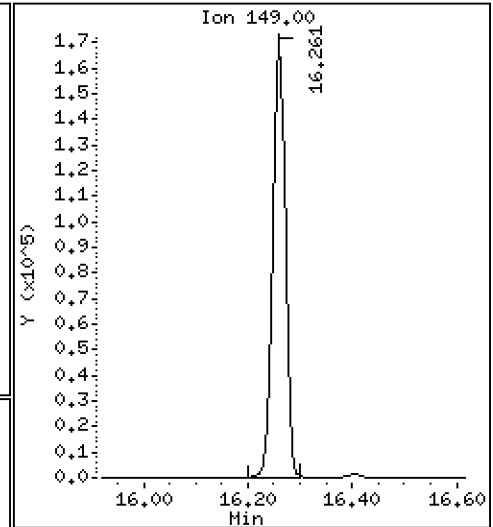
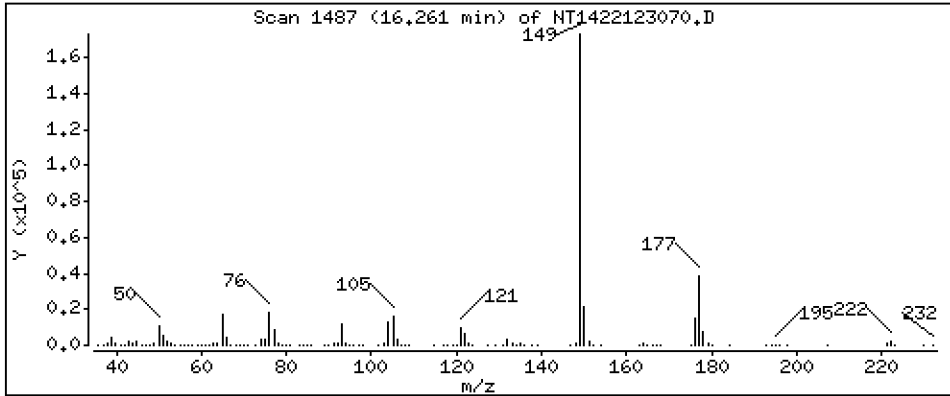
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,193 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

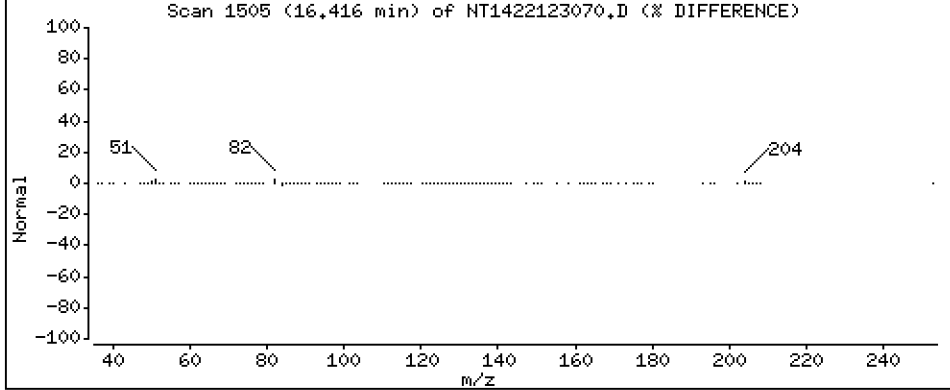
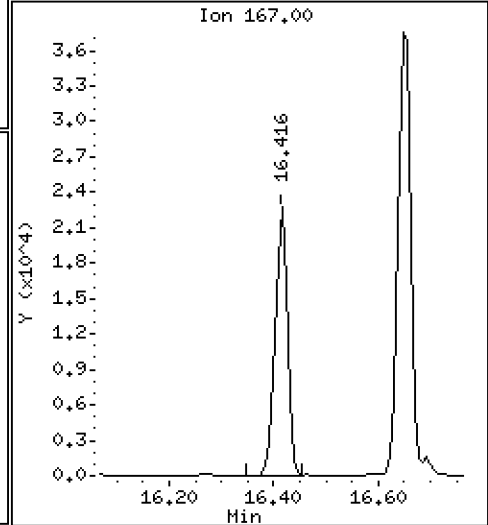
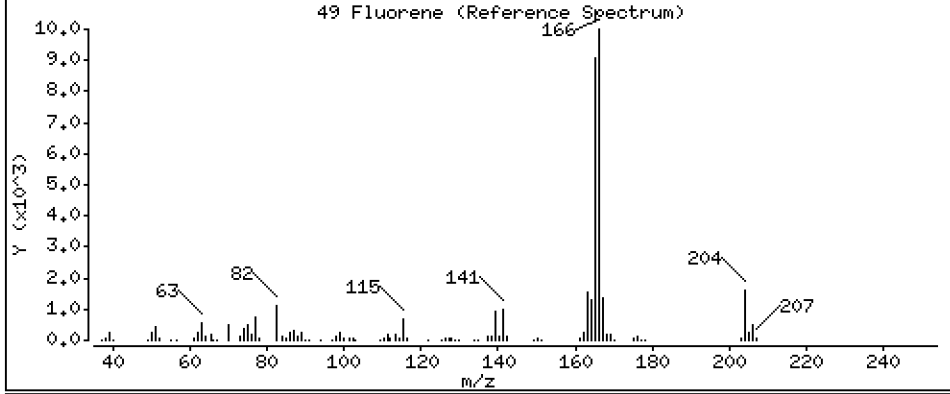
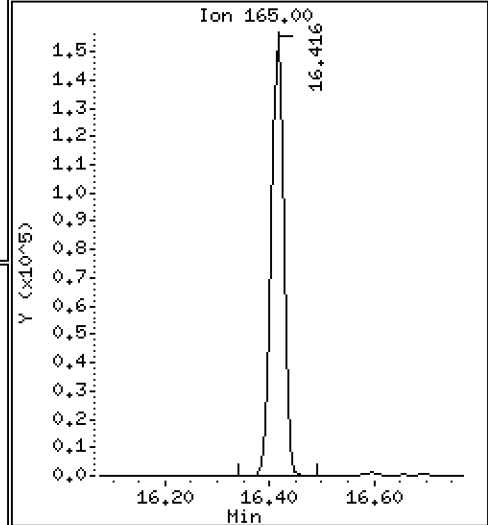
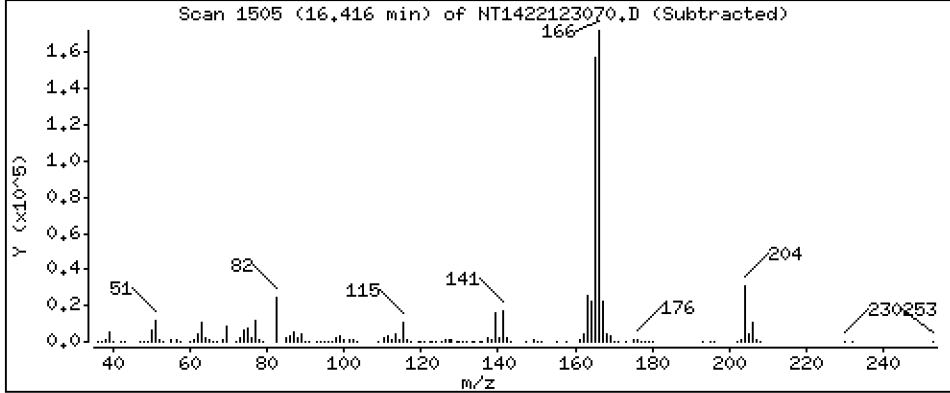
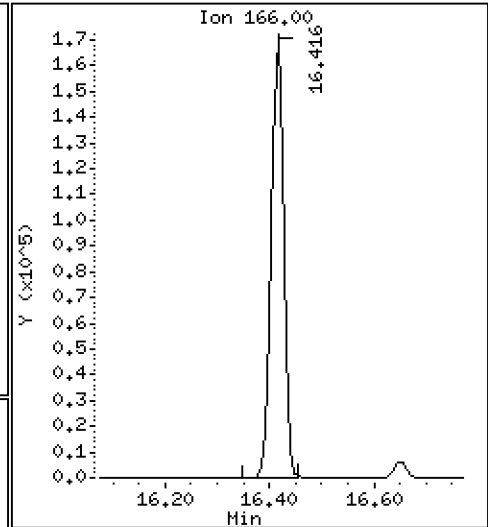
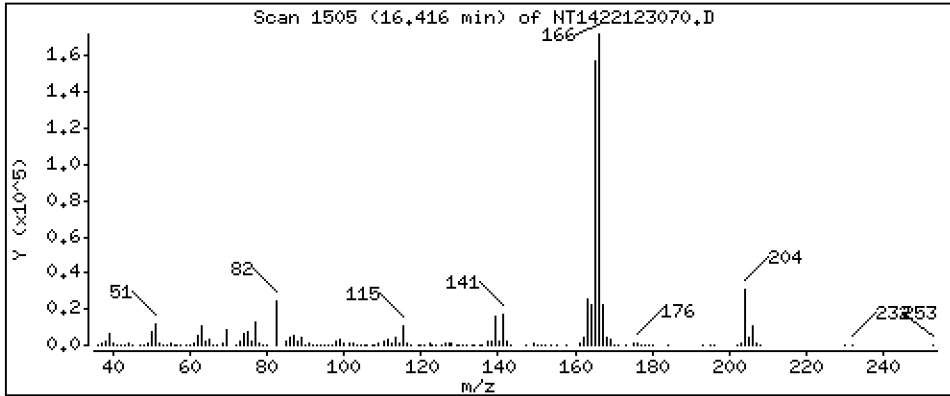
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,477 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

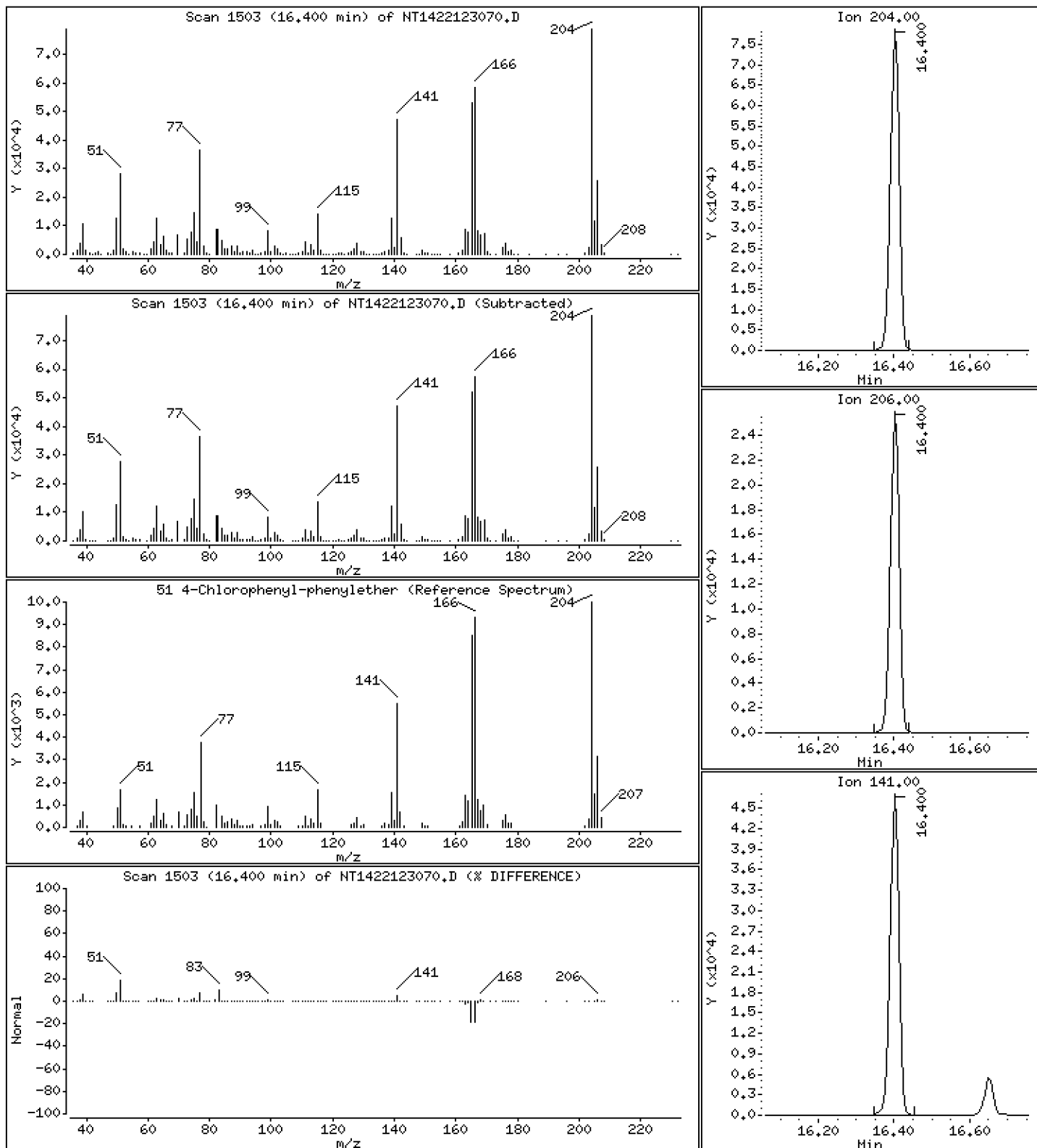
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,261 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

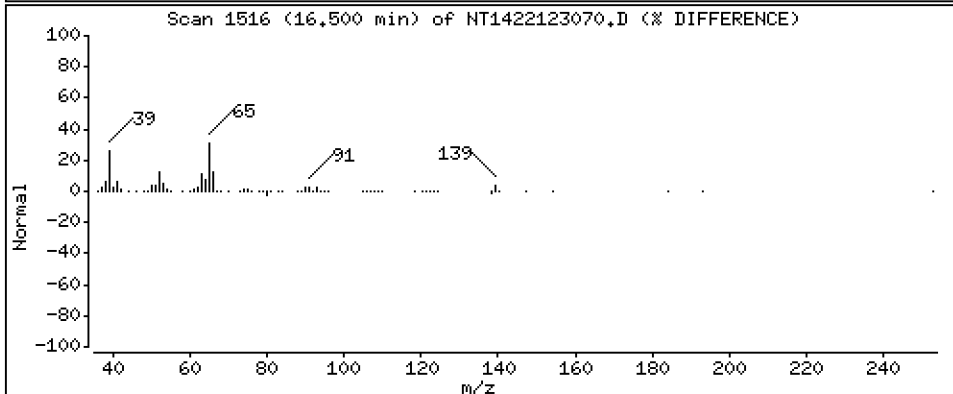
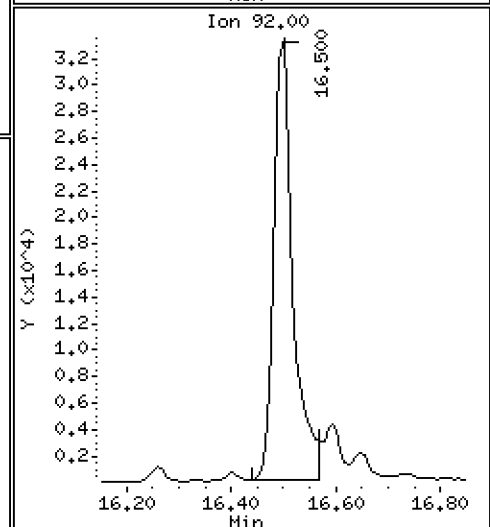
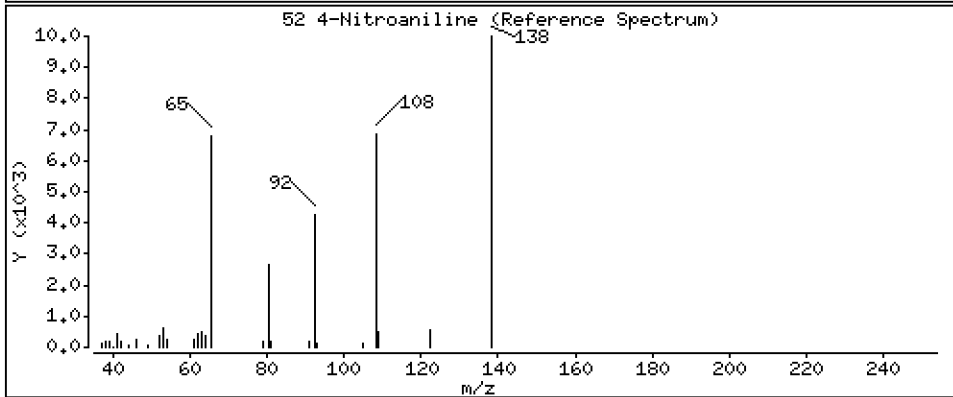
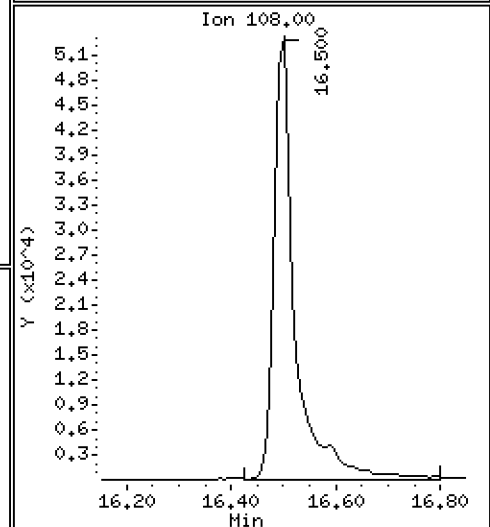
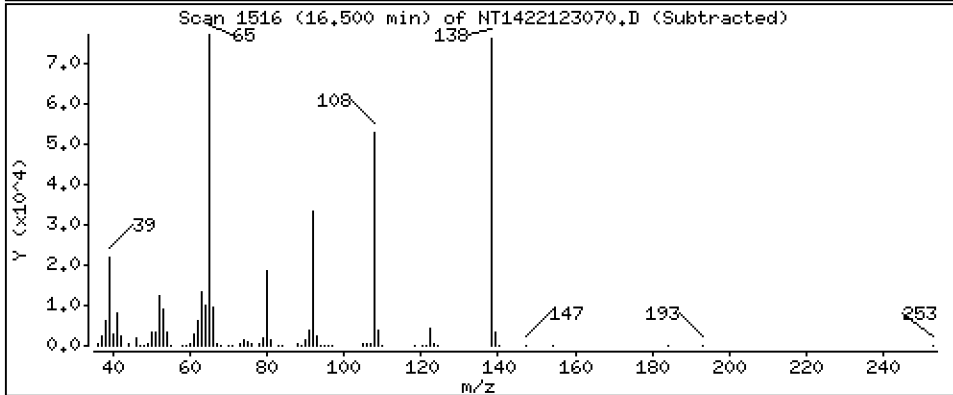
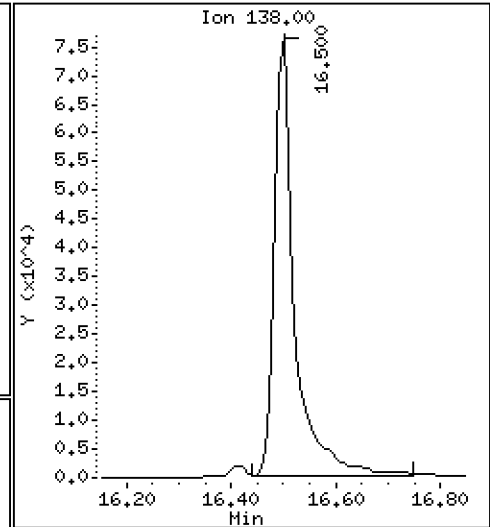
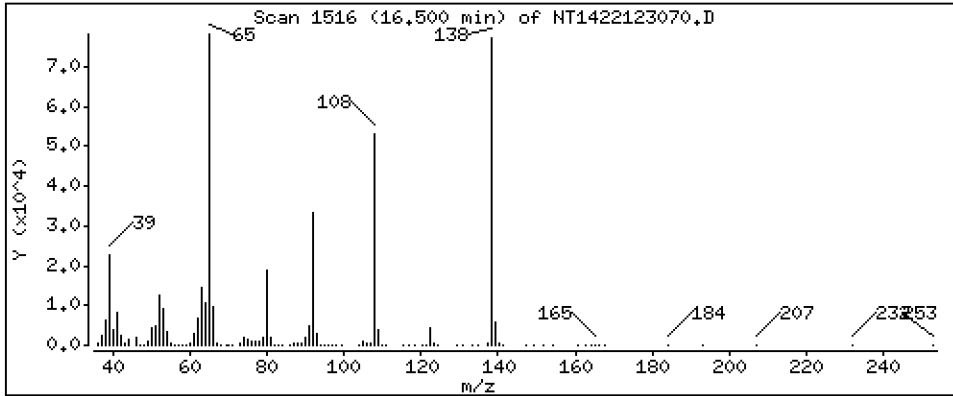
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 12,98 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

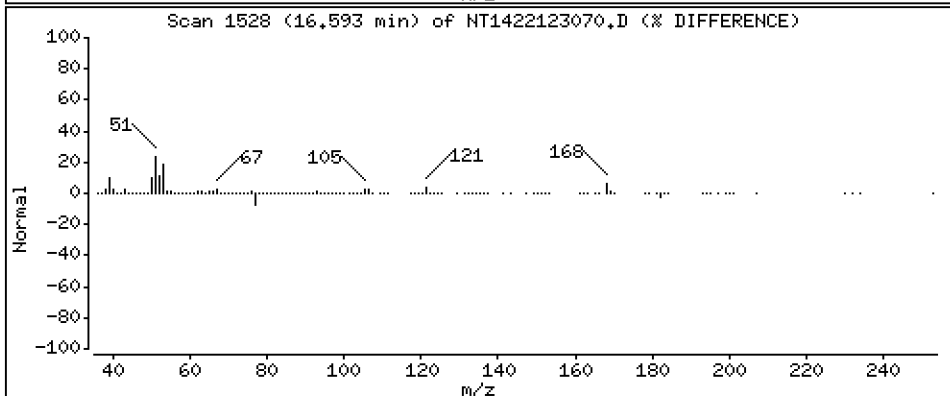
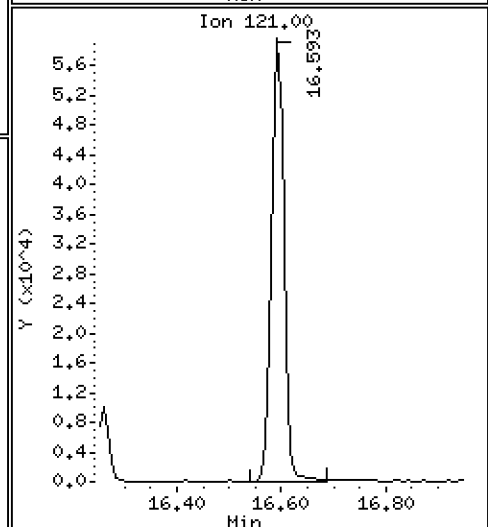
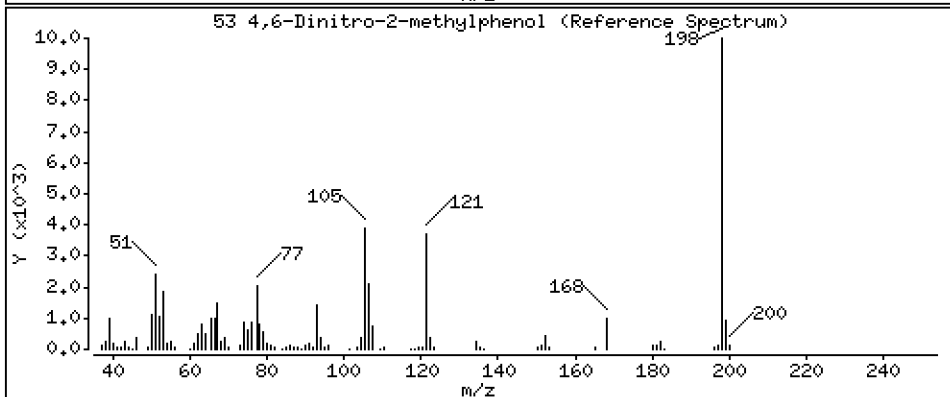
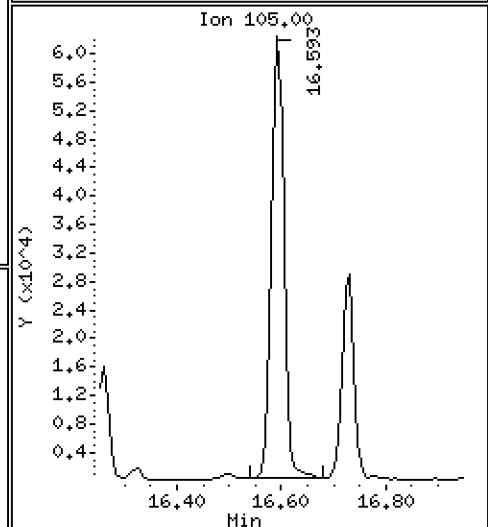
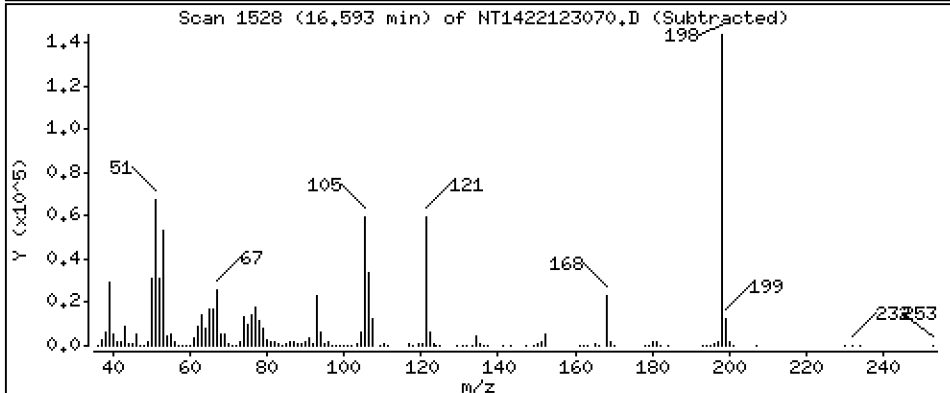
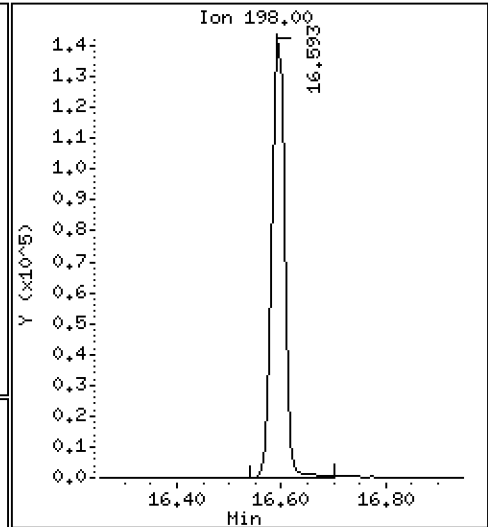
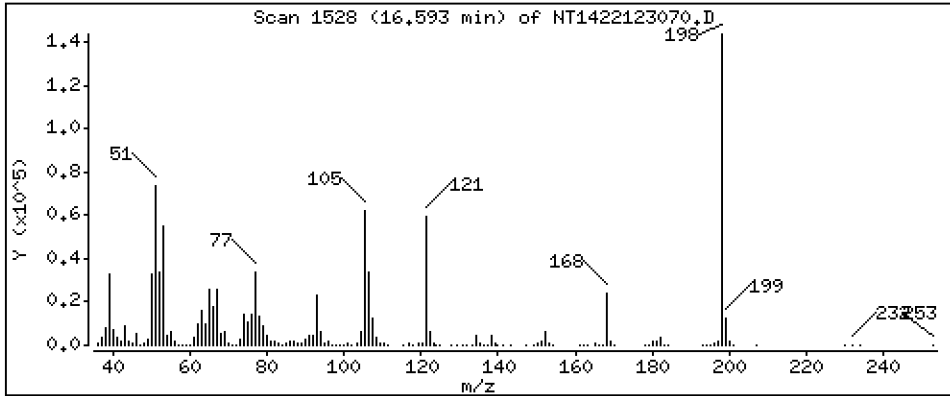
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 20,18 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

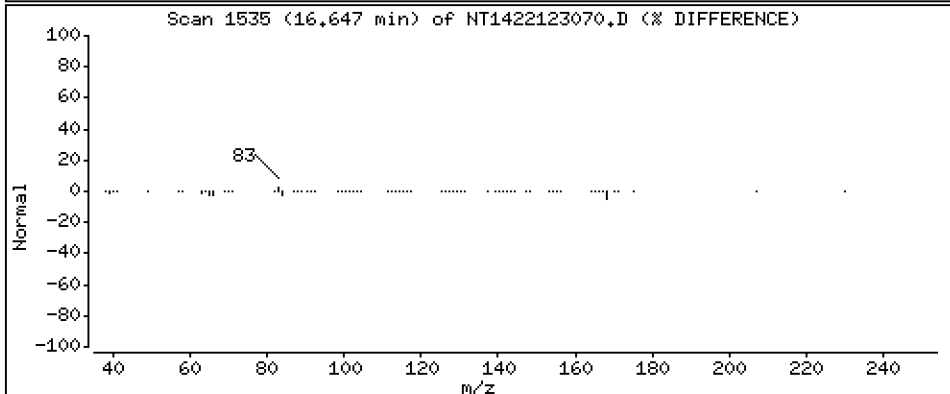
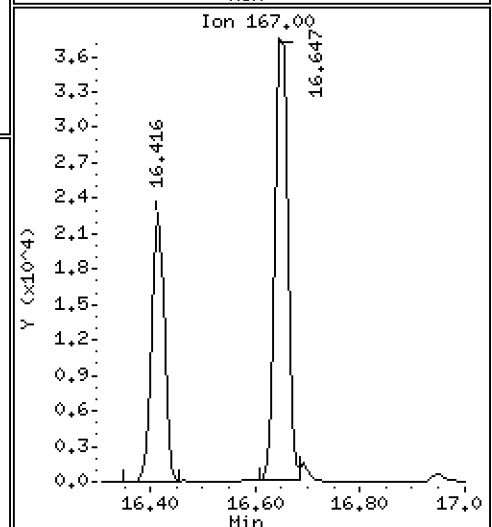
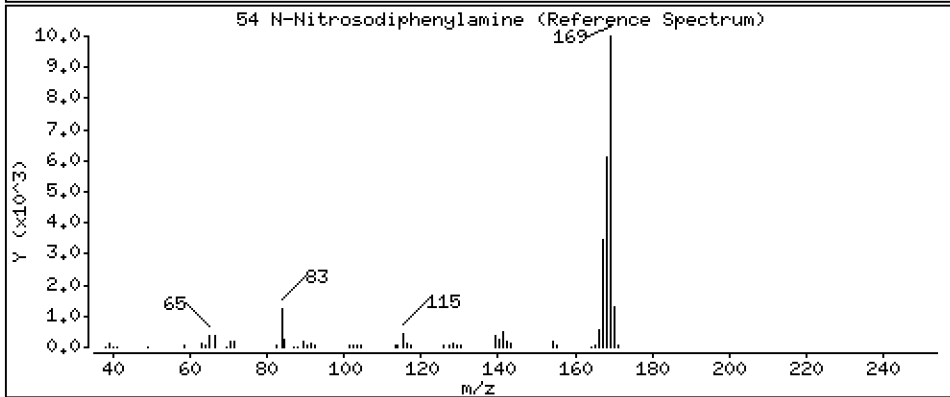
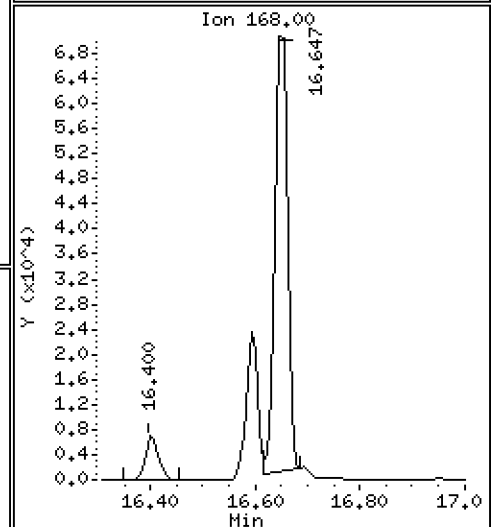
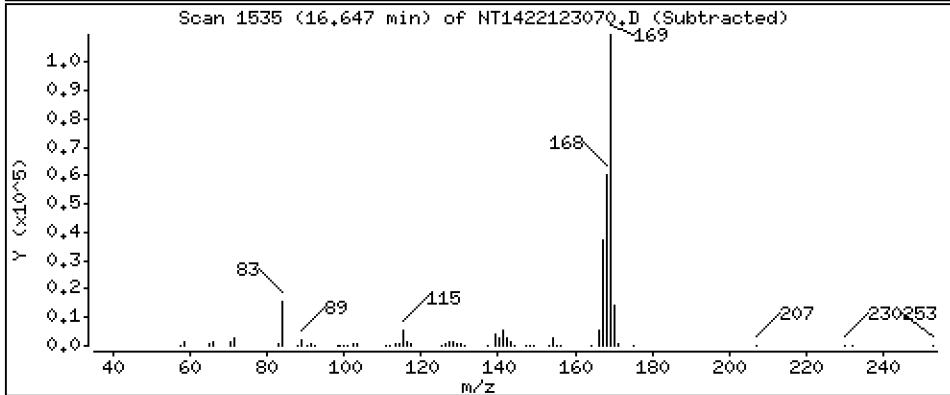
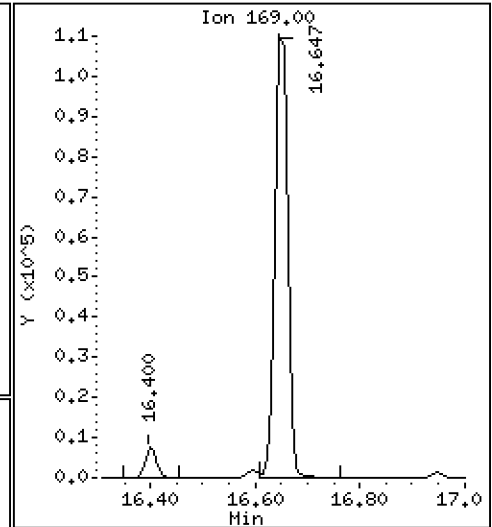
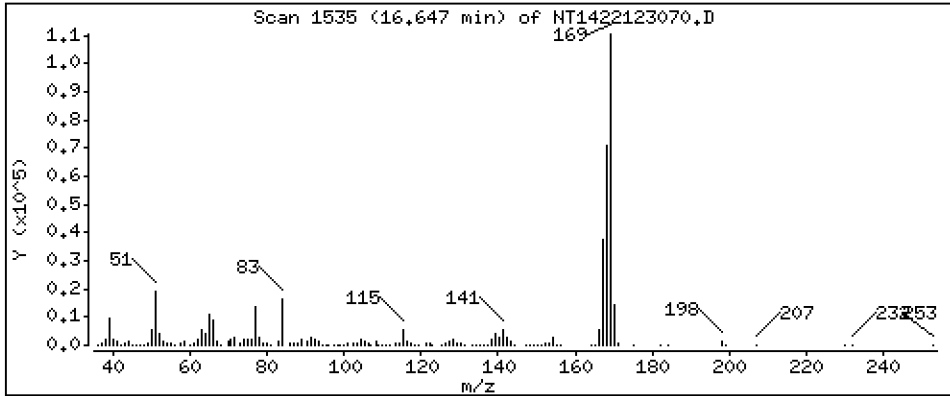
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,950 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

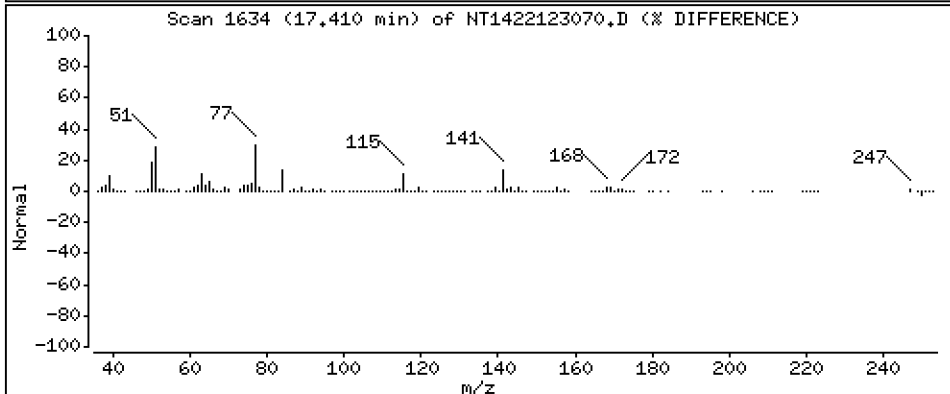
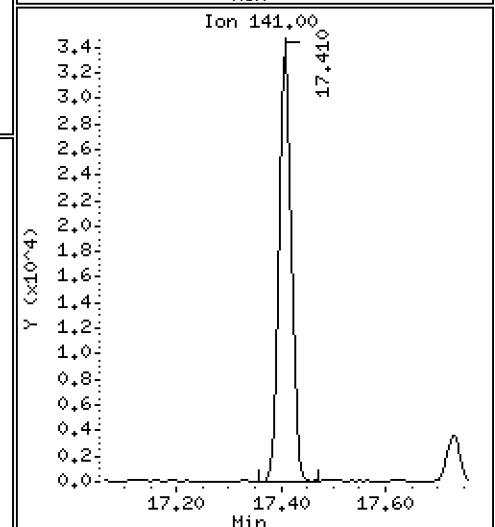
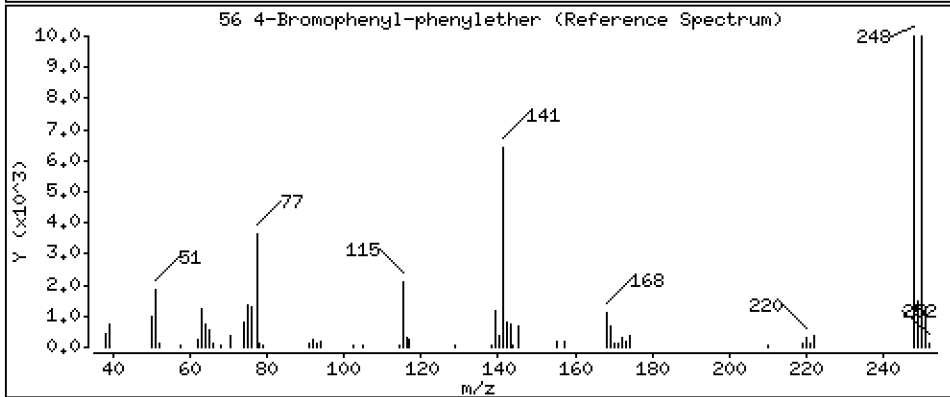
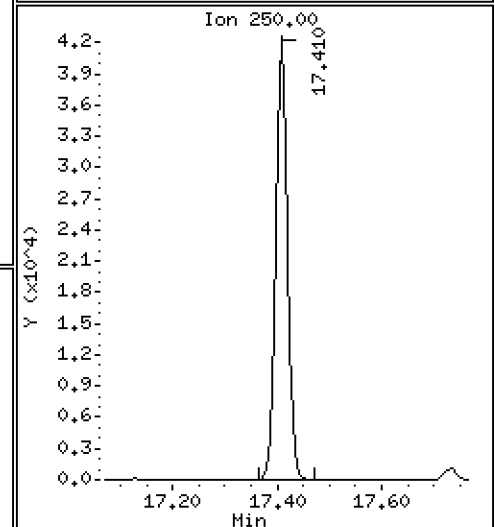
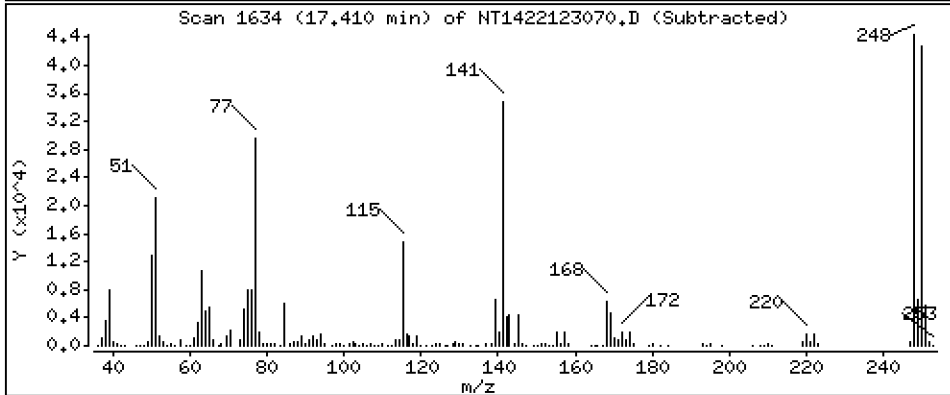
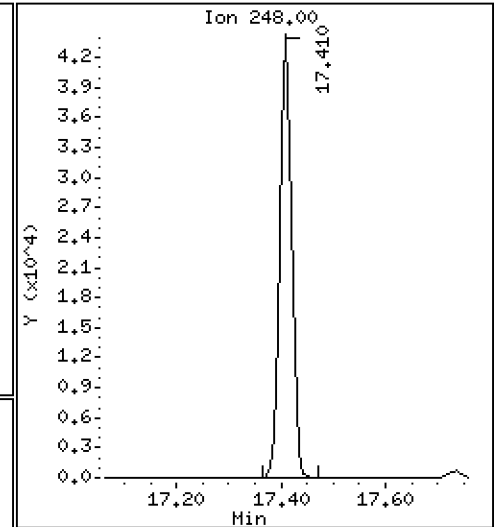
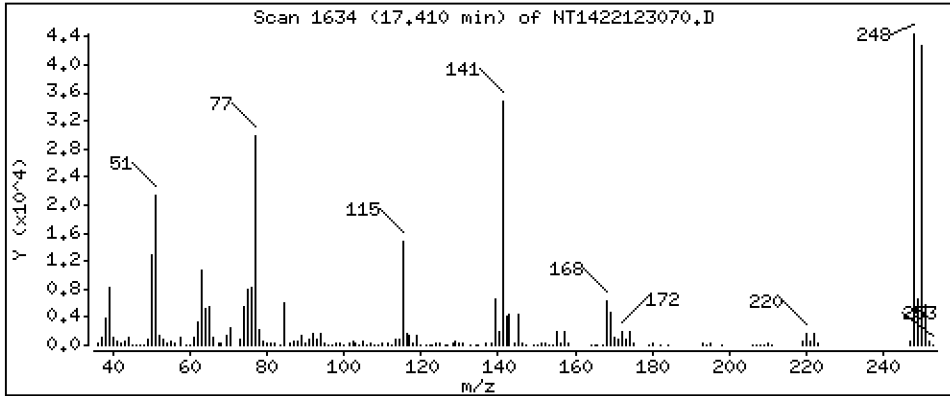
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,031 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

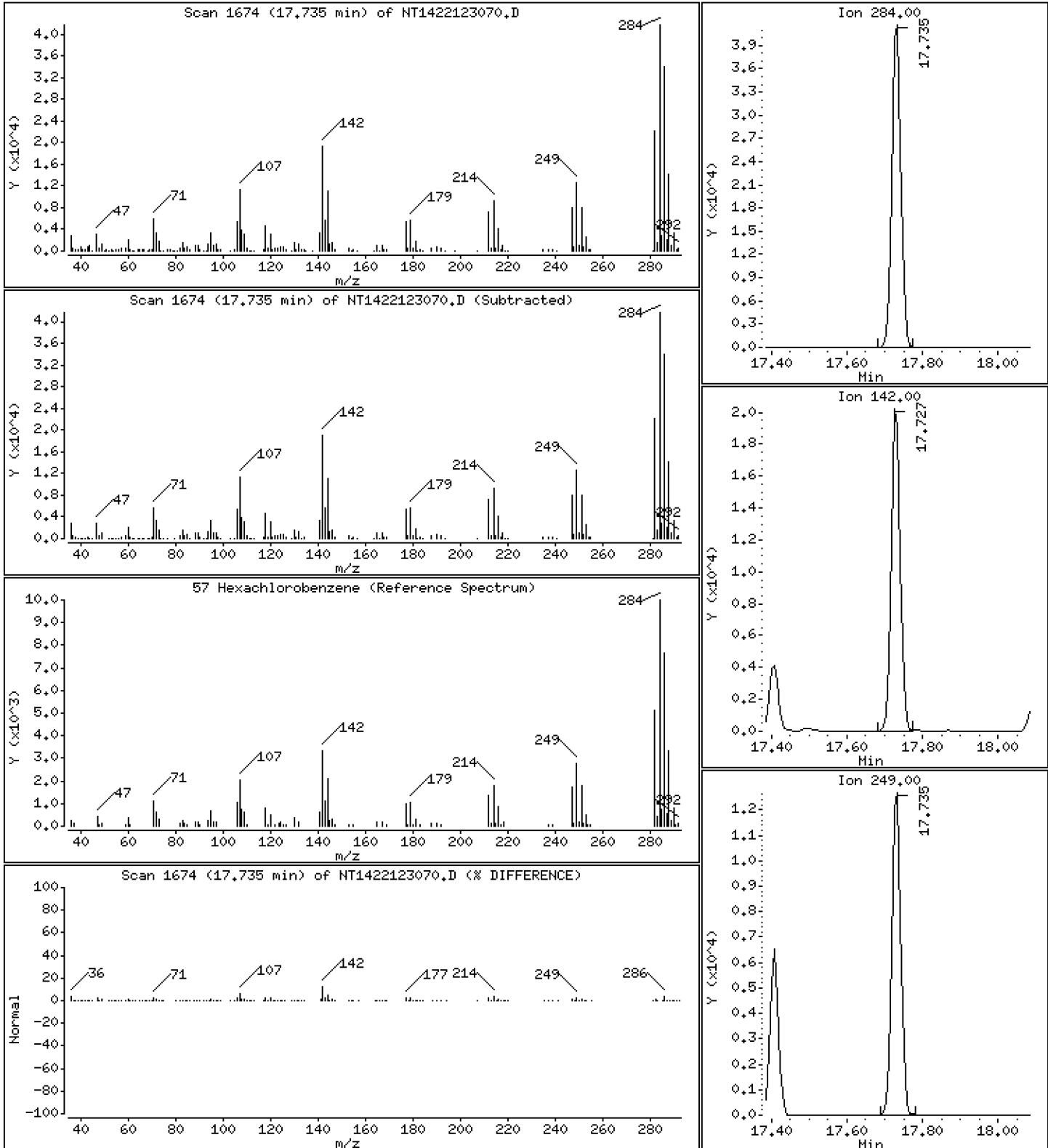
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 3,666 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

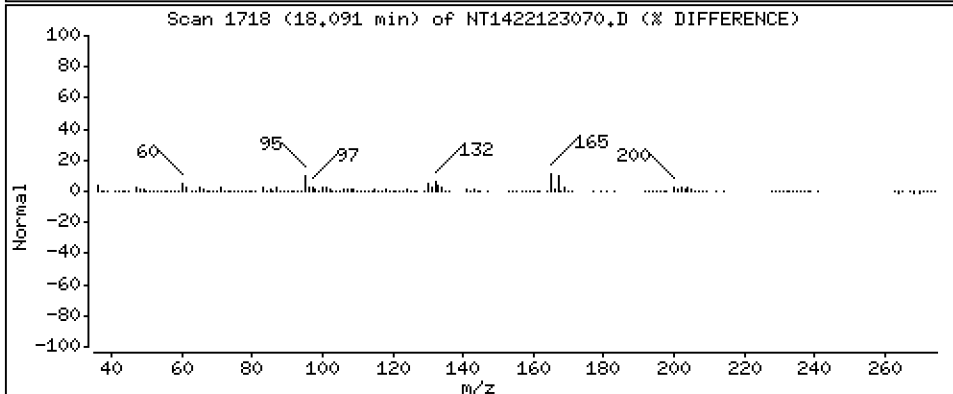
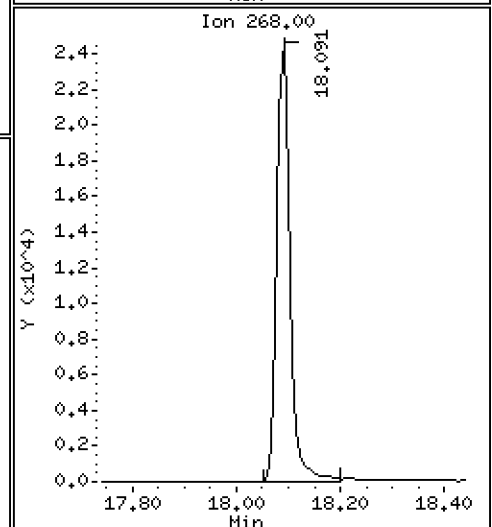
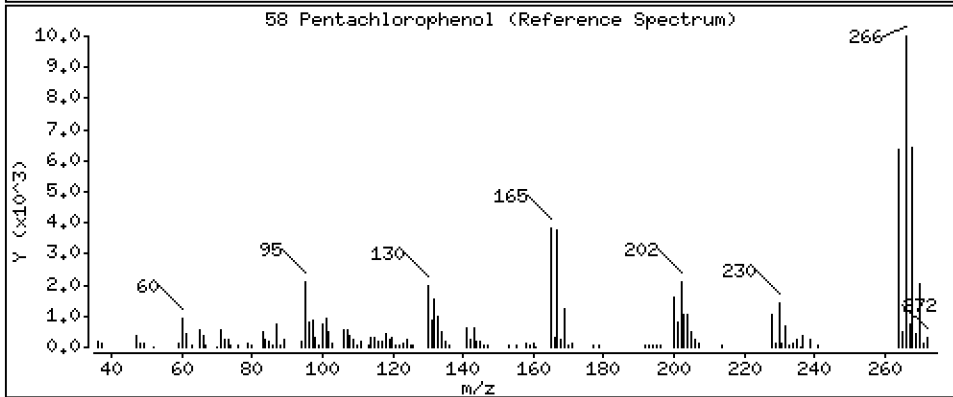
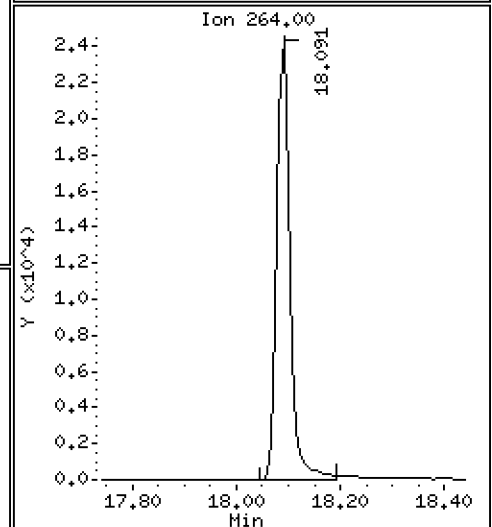
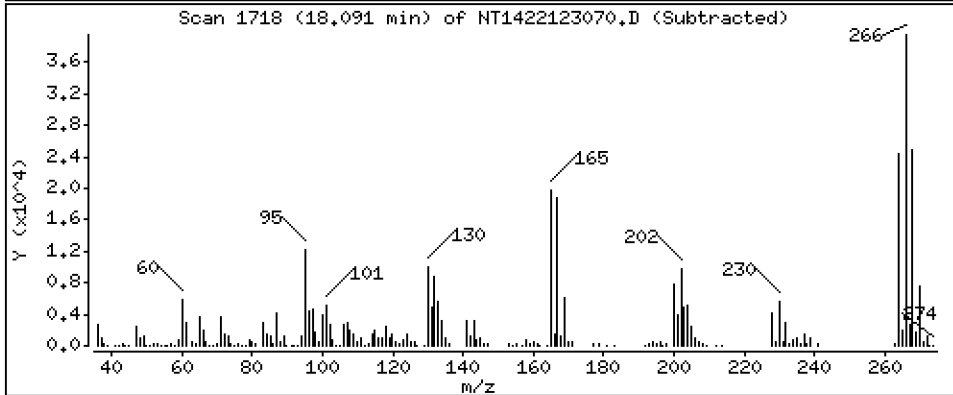
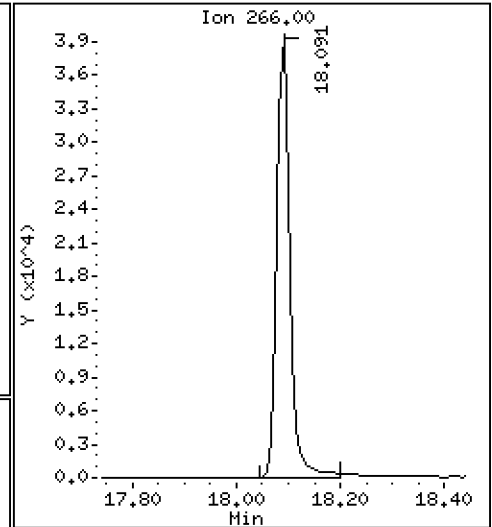
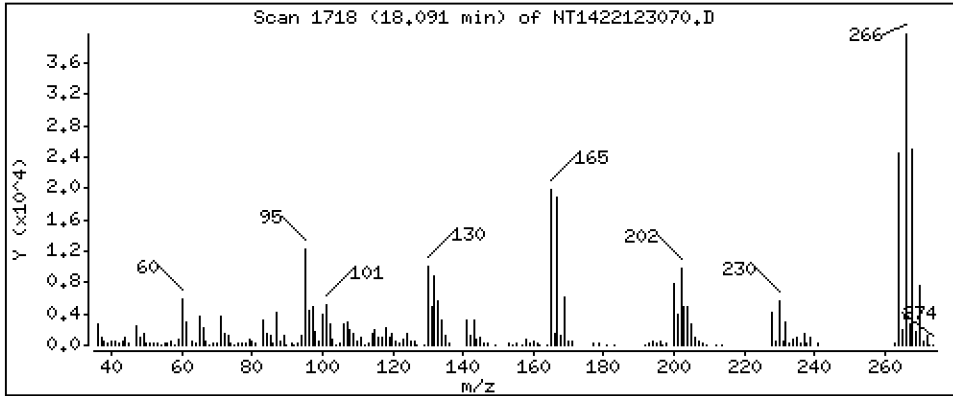
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 7,781 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

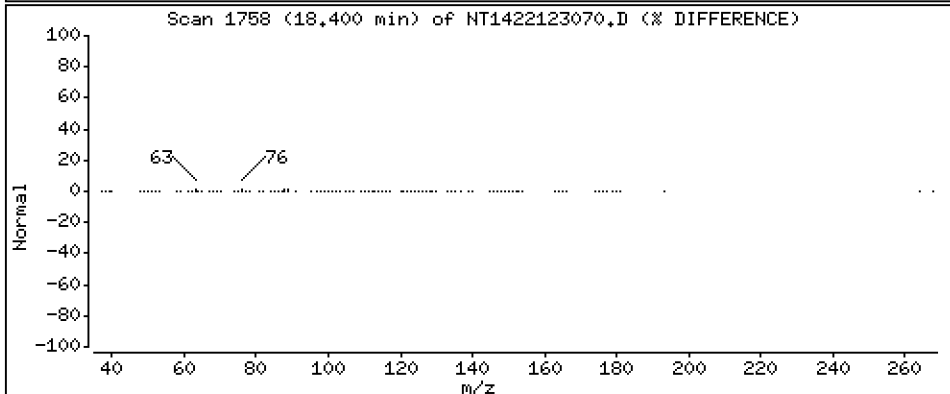
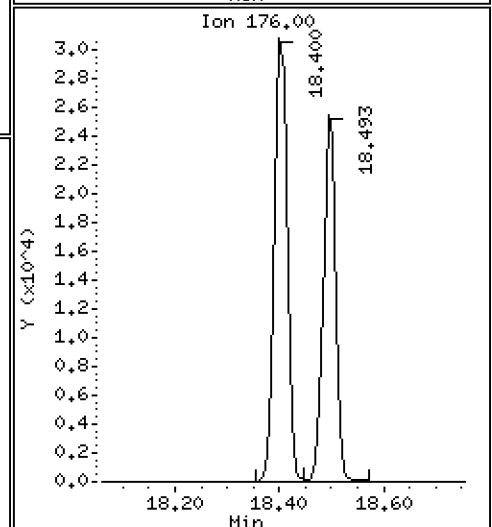
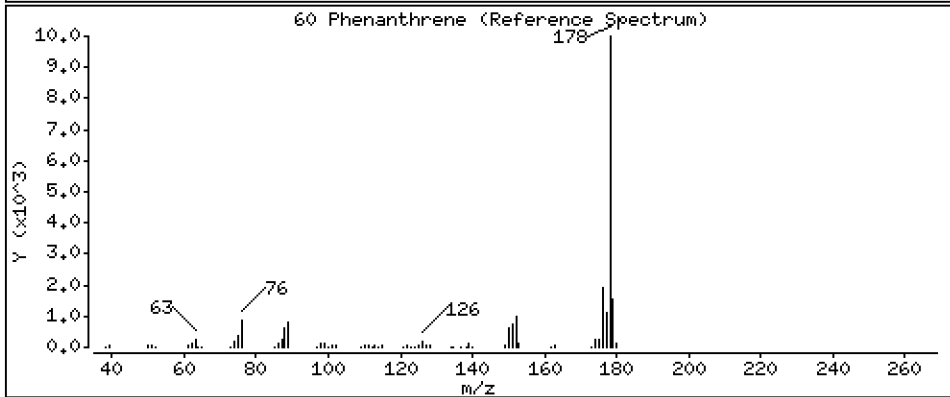
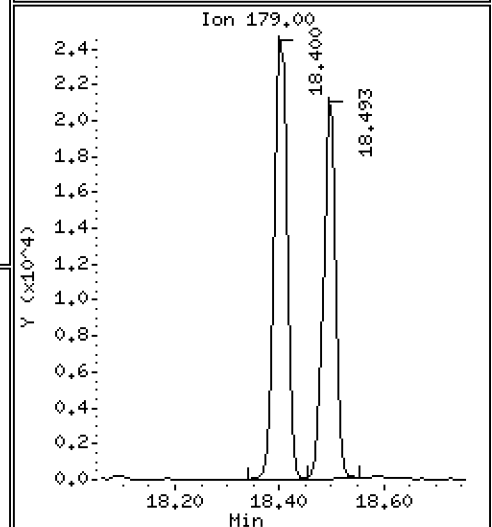
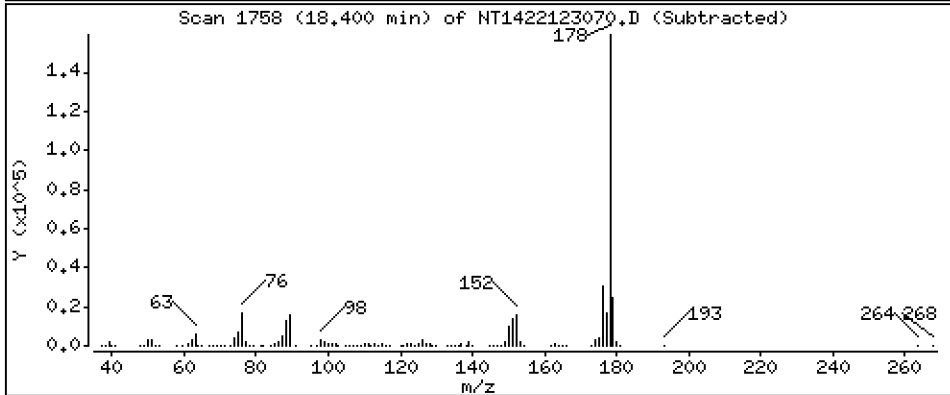
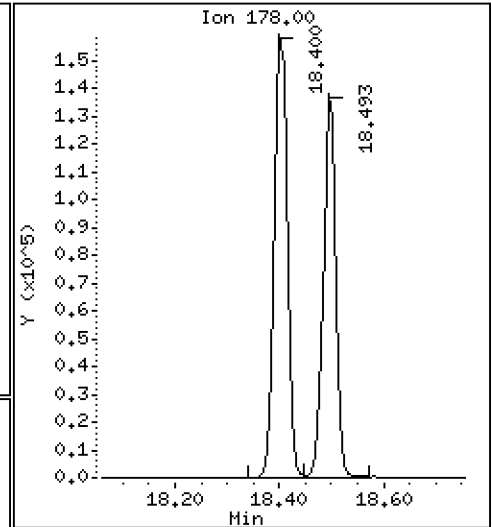
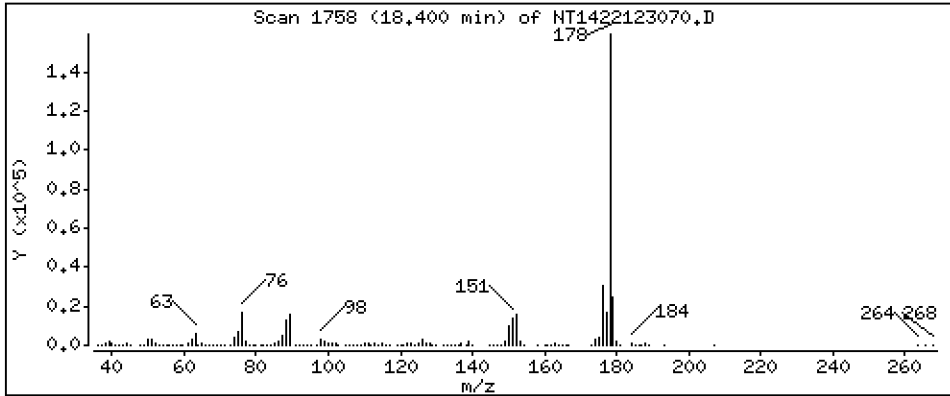
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 3,834 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

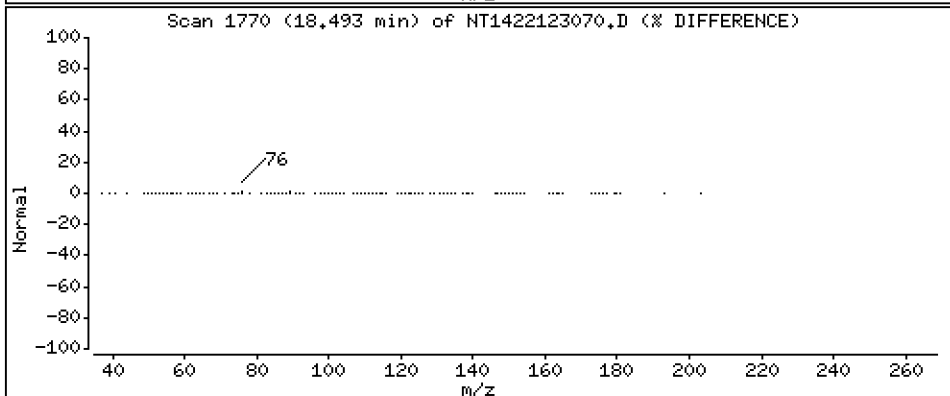
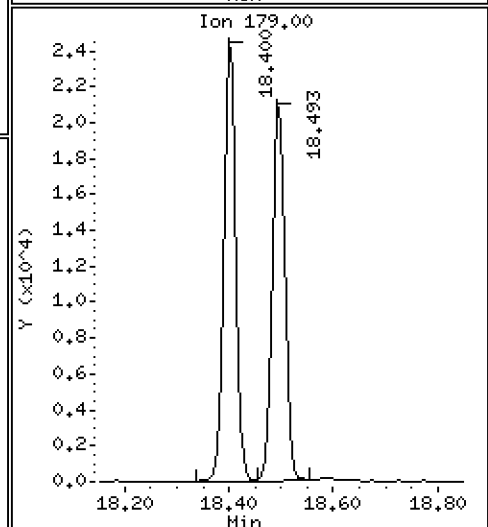
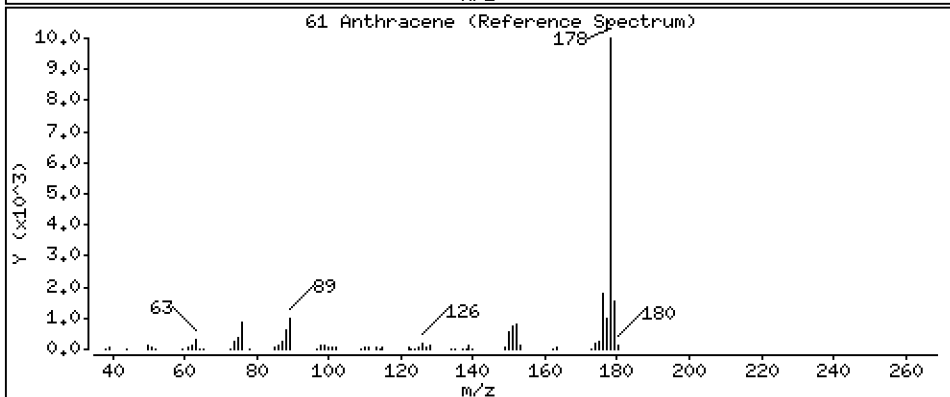
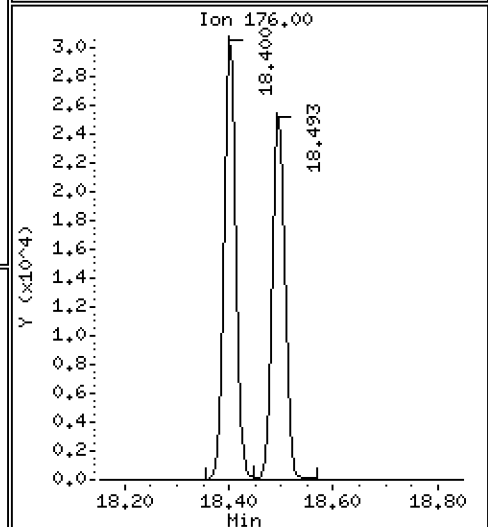
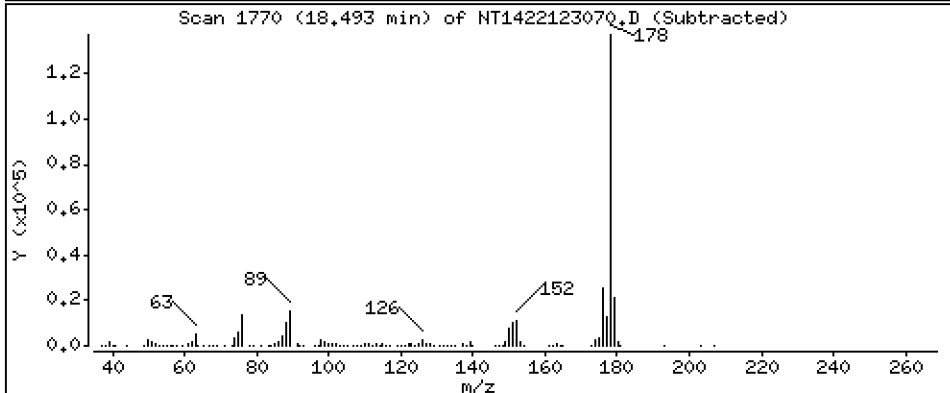
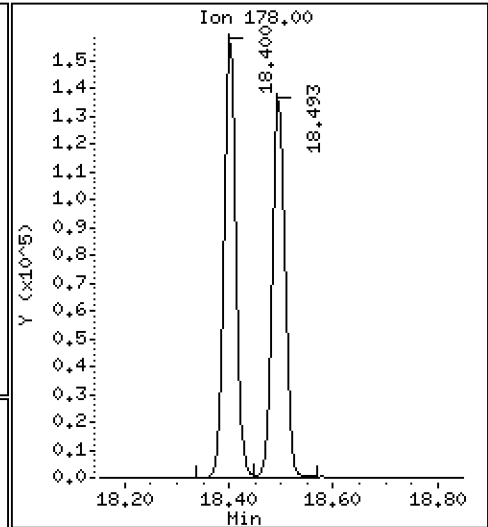
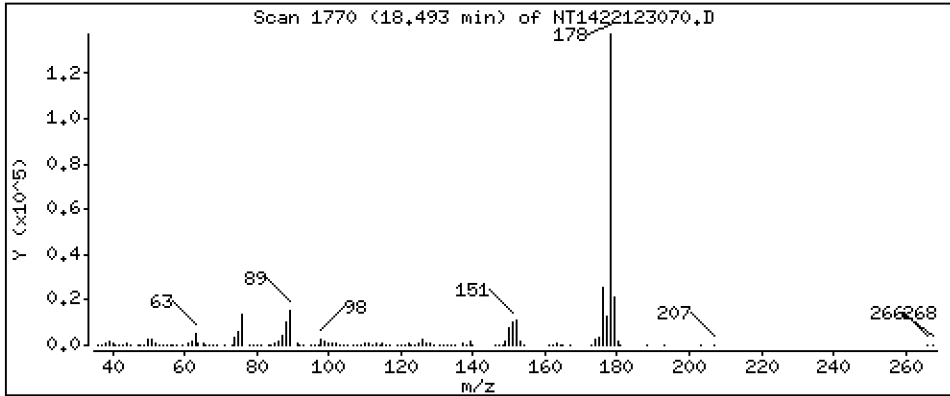
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,427 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

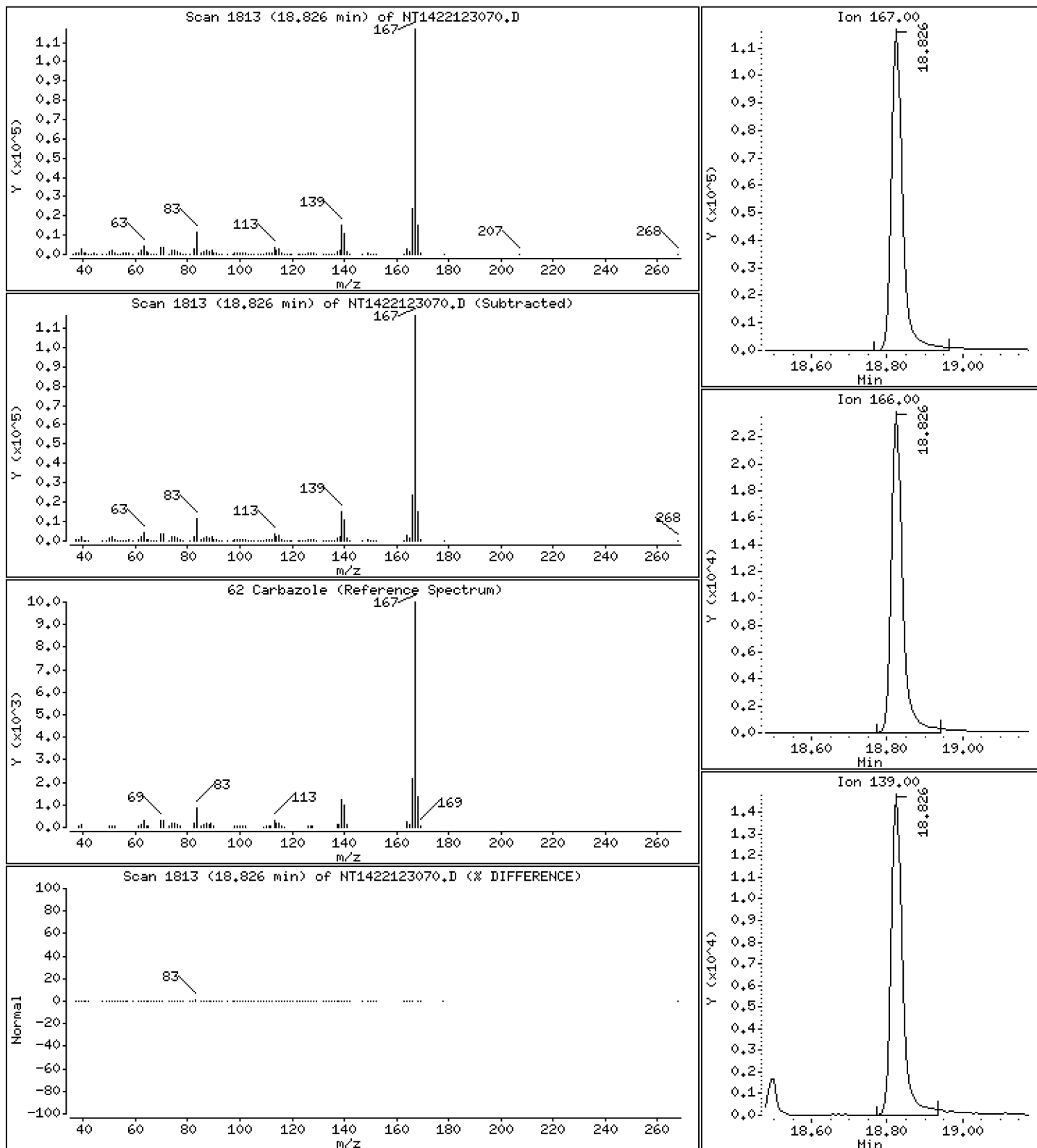
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 3,671 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

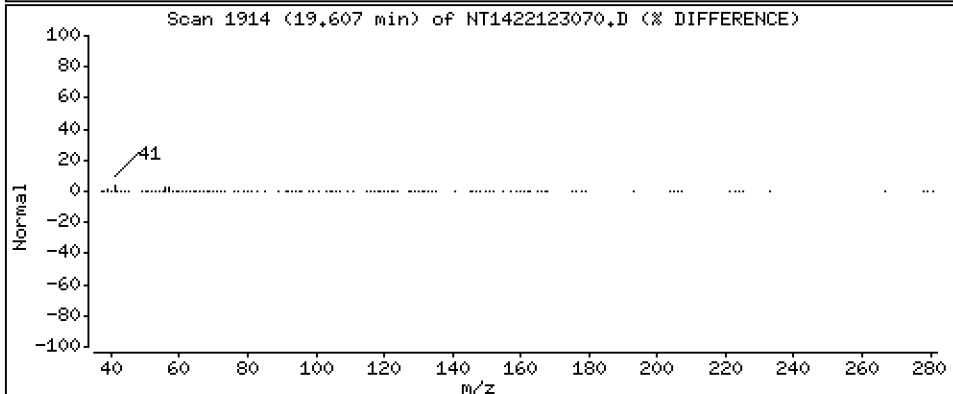
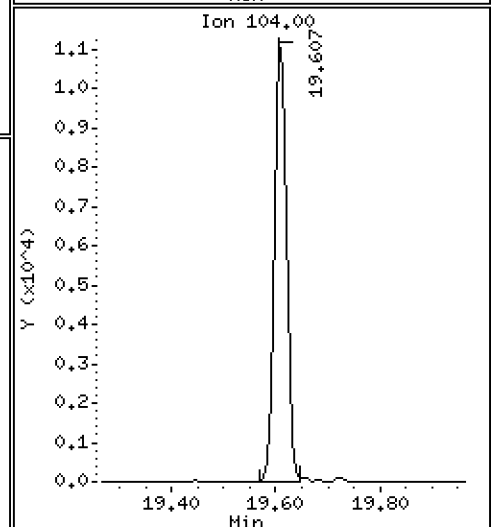
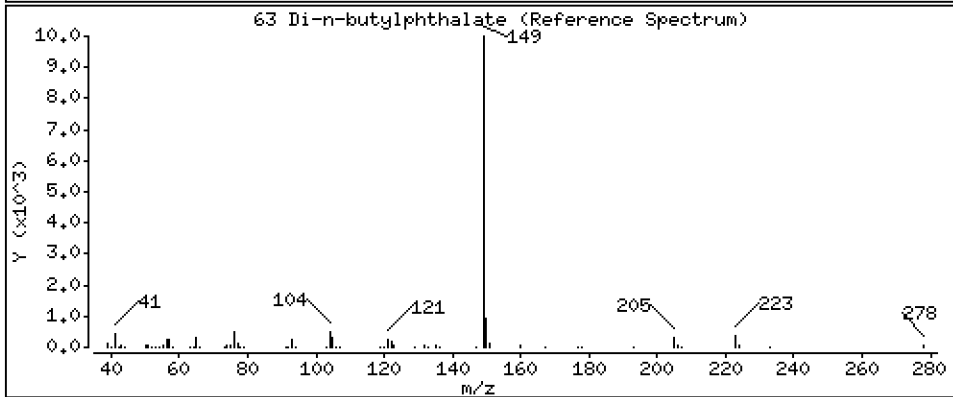
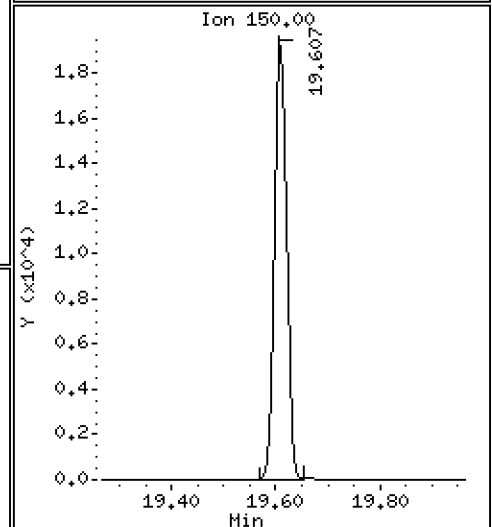
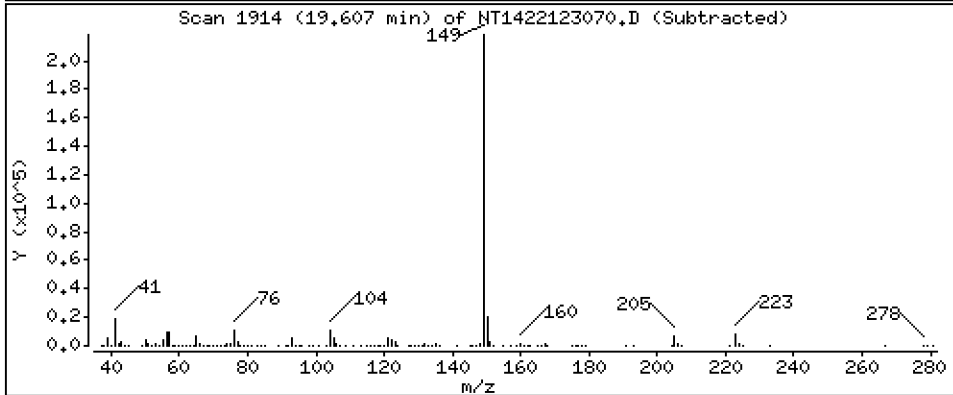
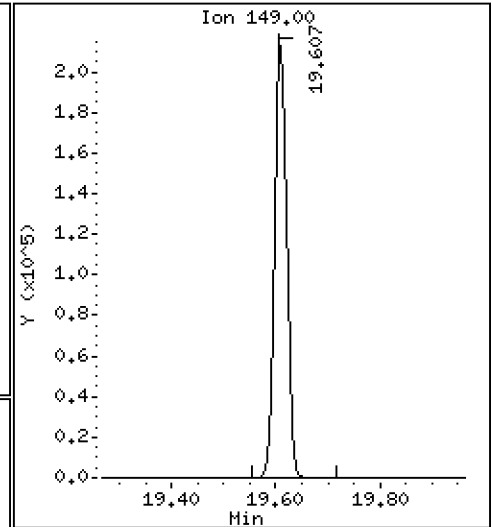
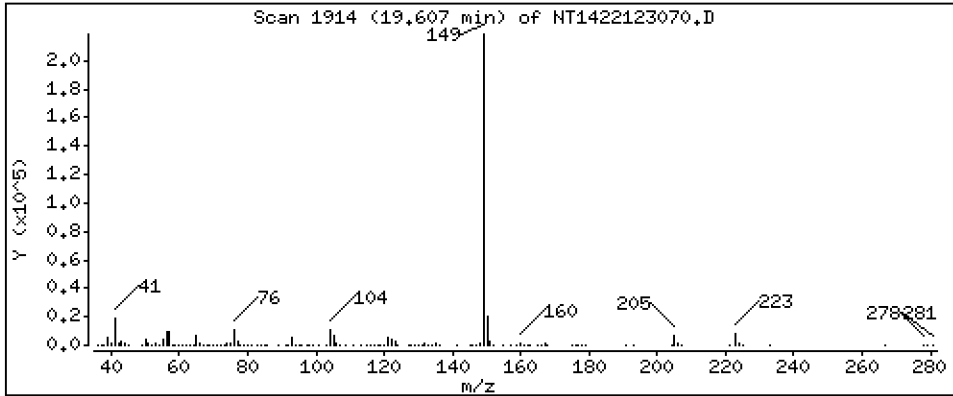
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,524 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

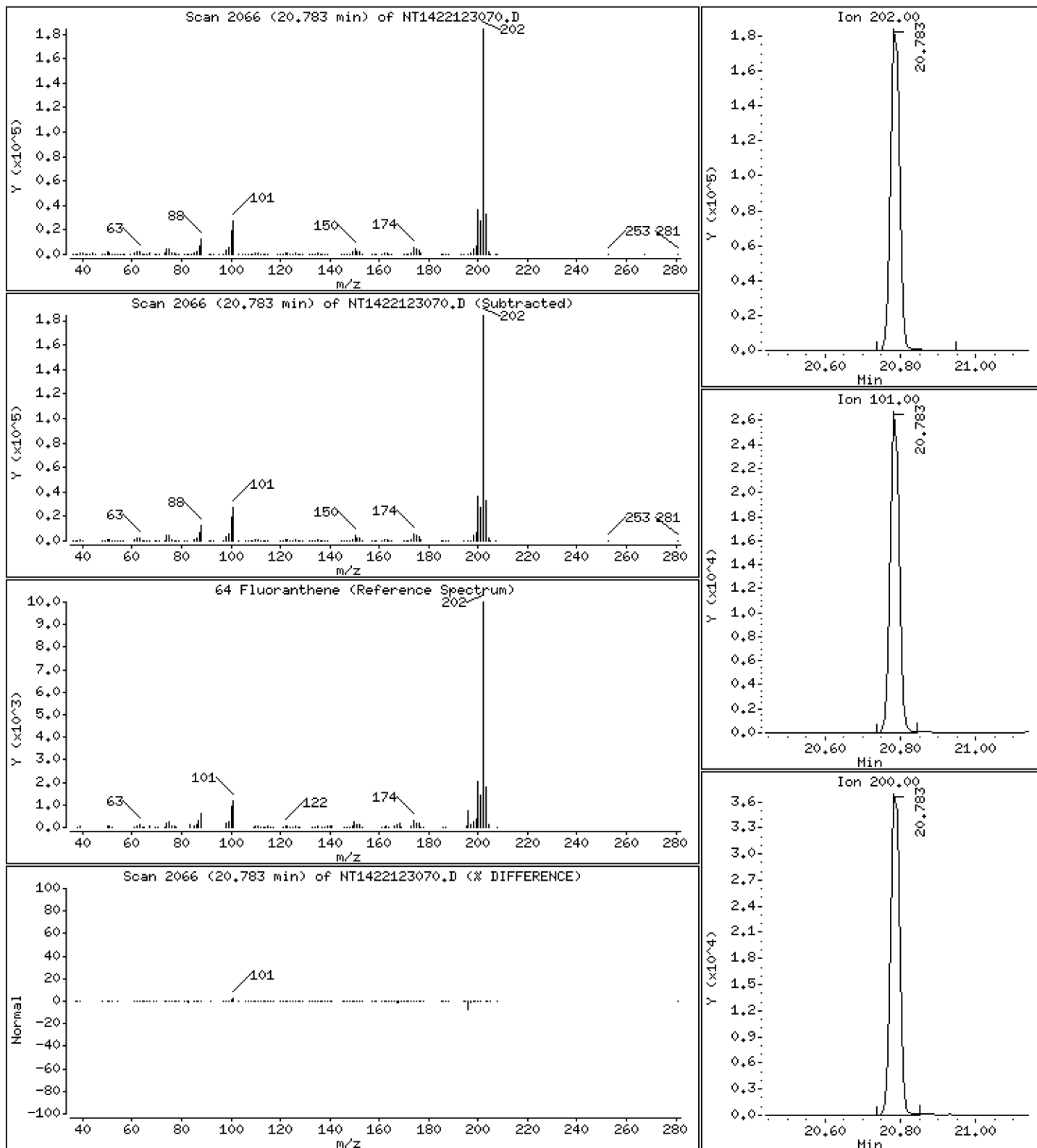
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,204 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

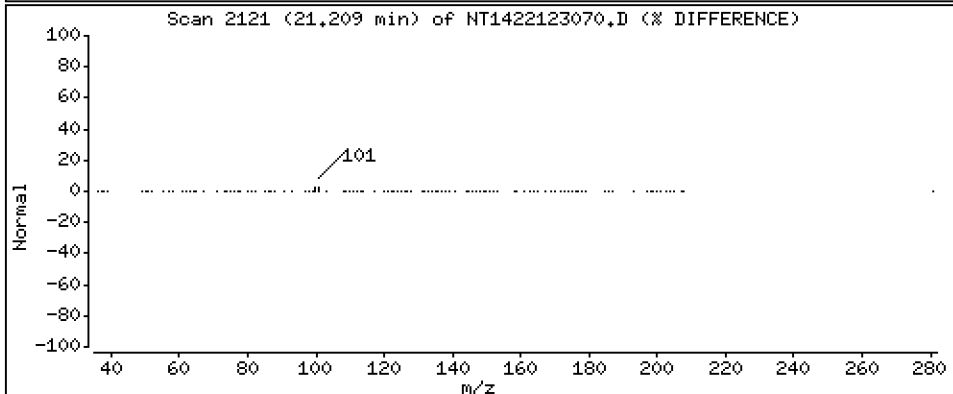
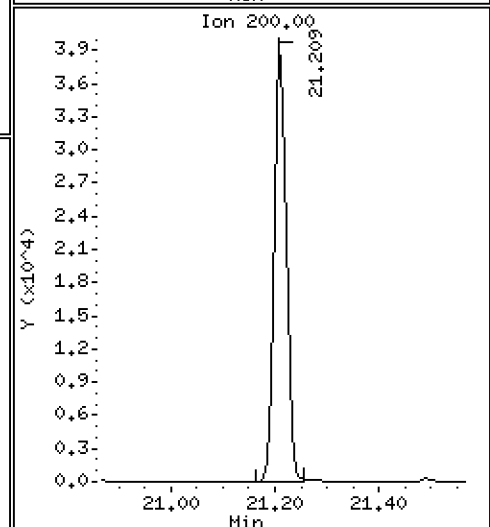
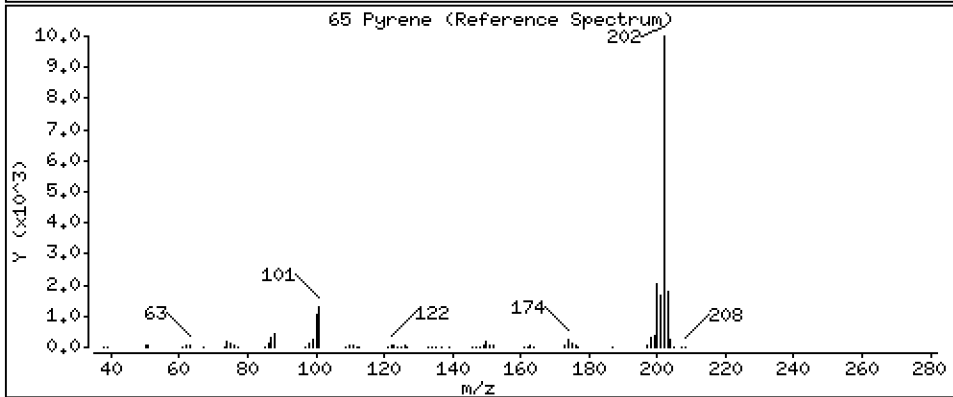
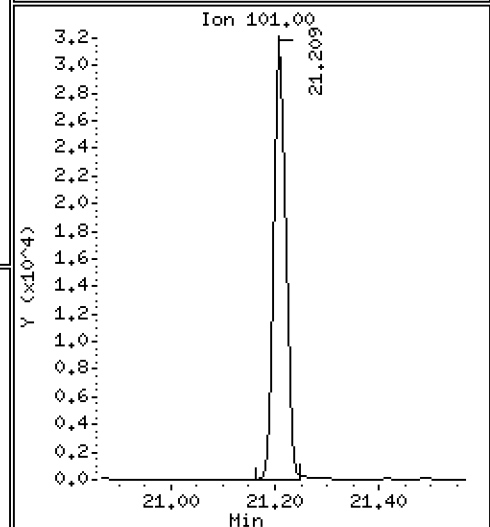
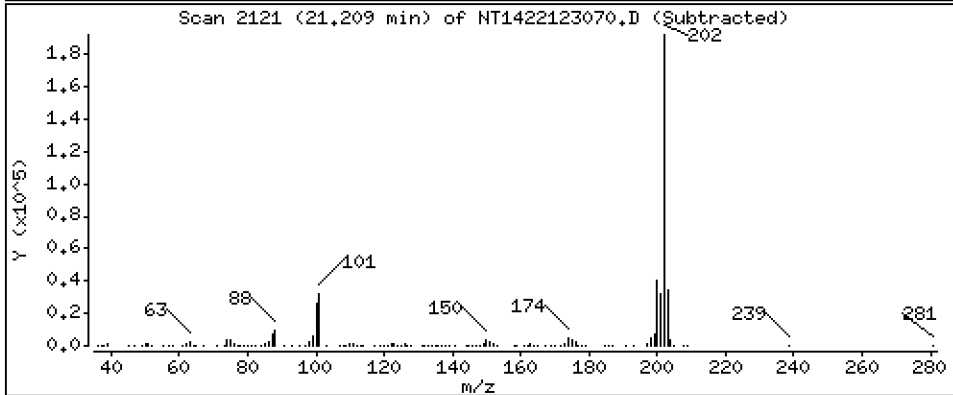
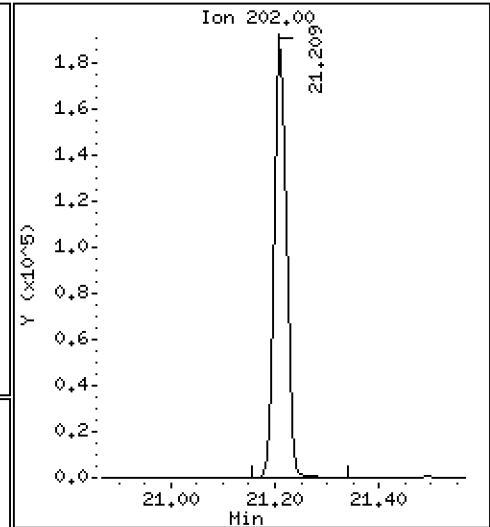
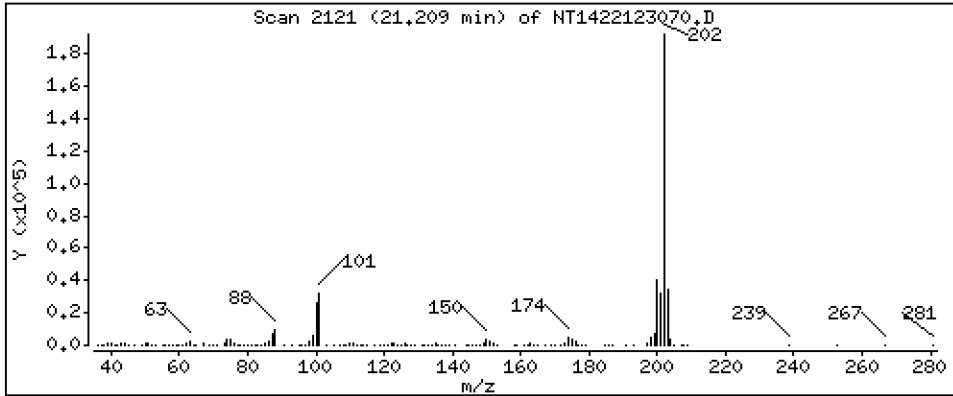
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,153 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

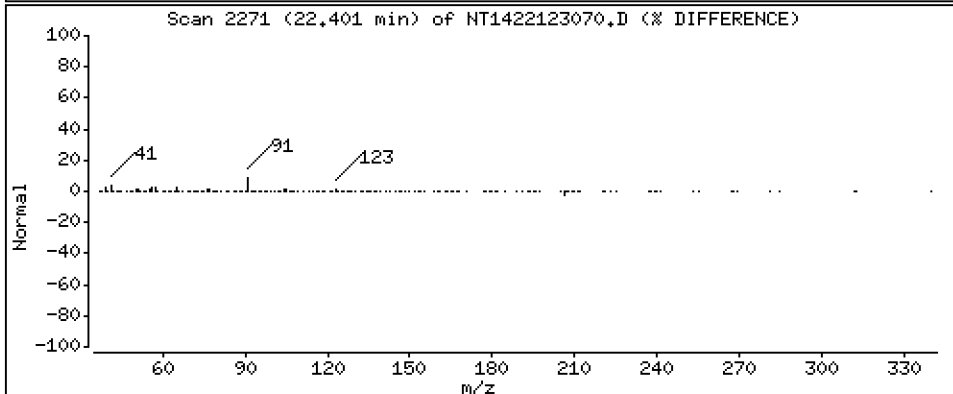
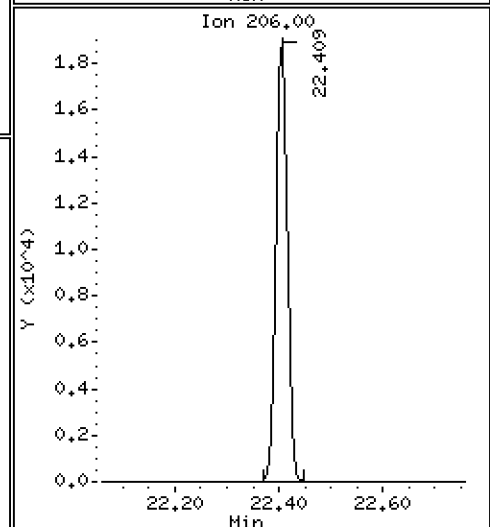
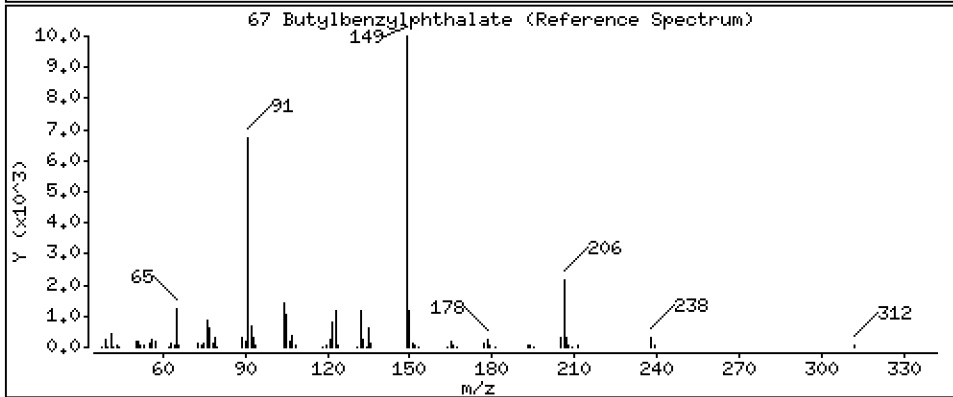
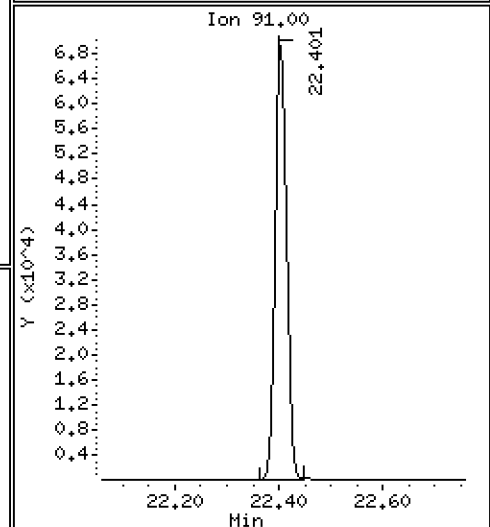
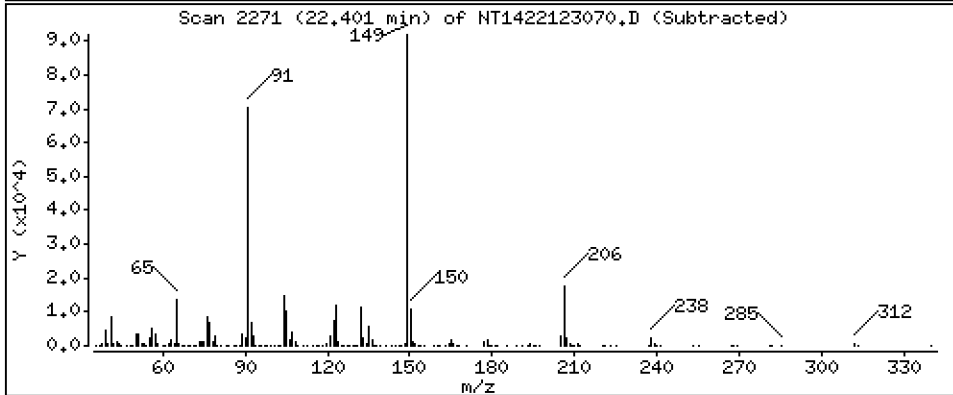
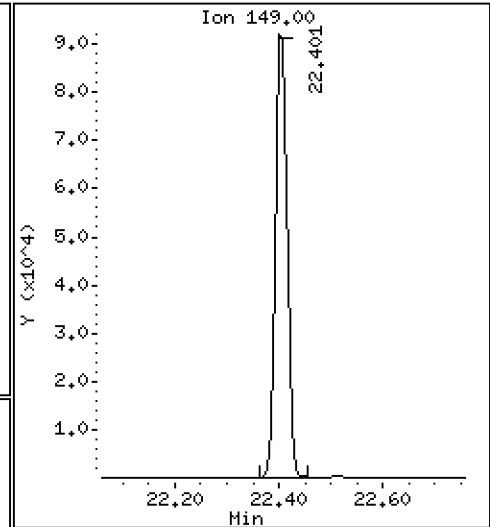
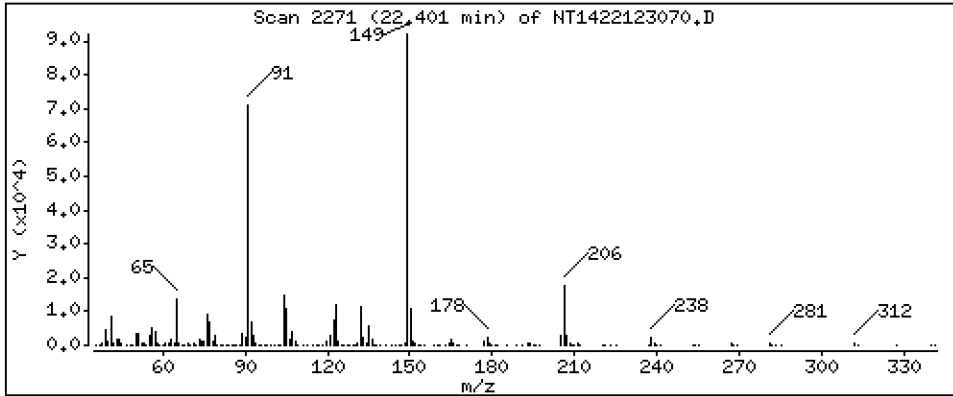
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,908 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

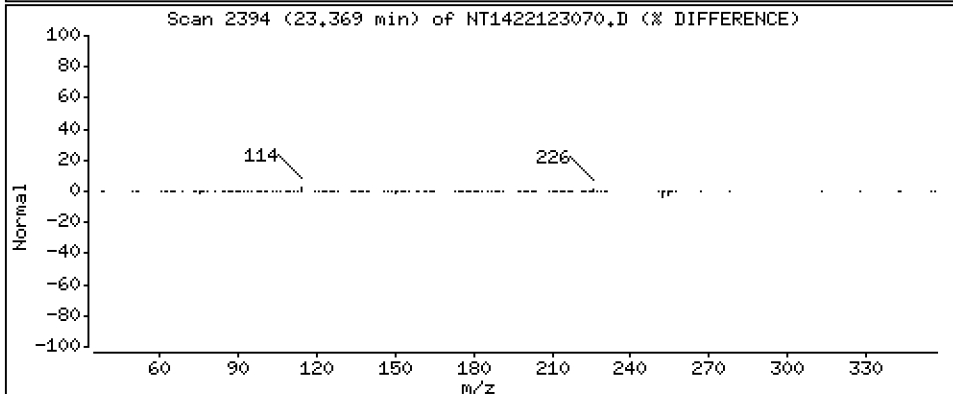
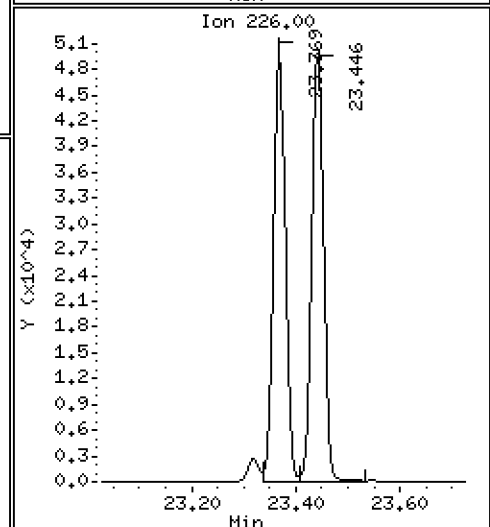
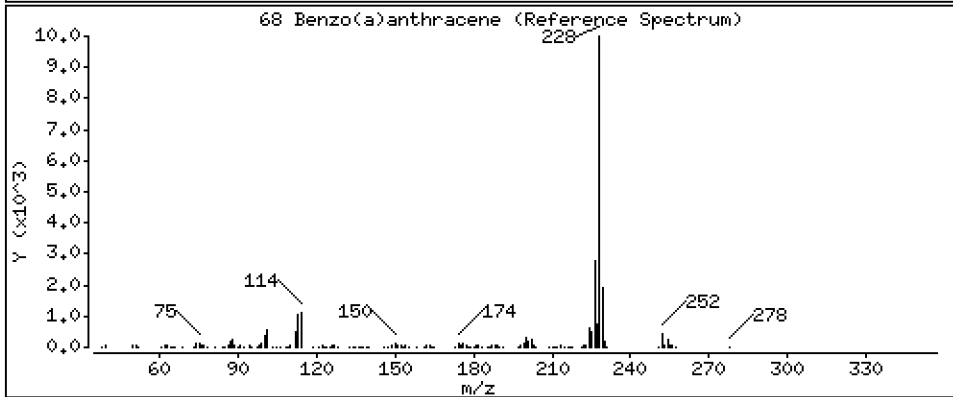
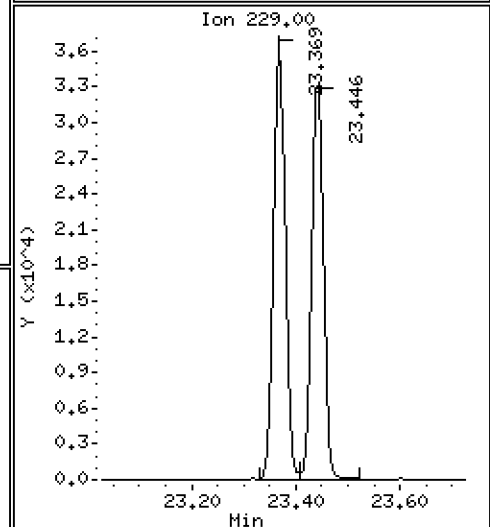
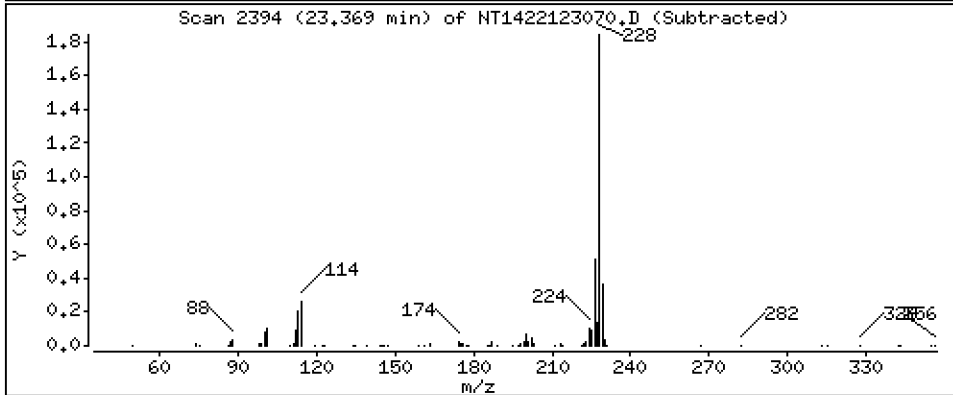
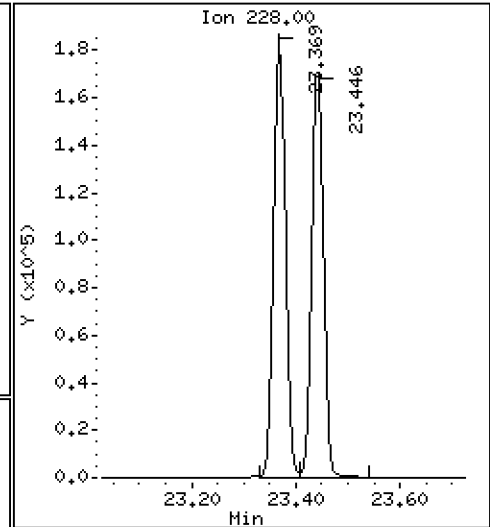
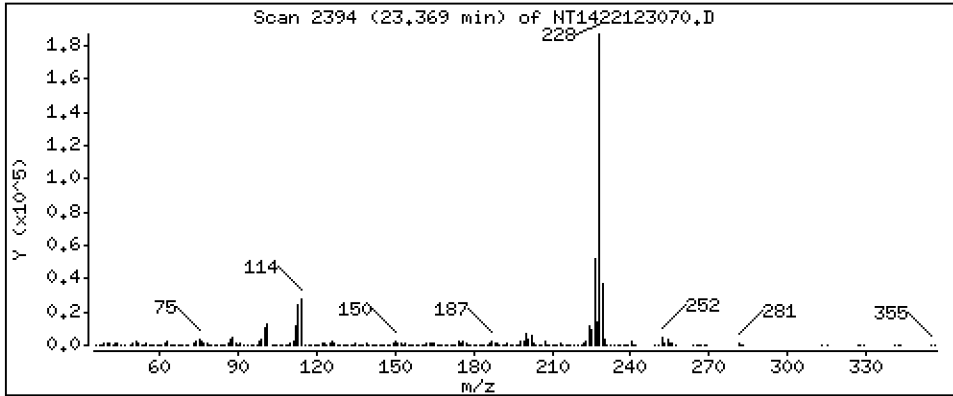
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,203 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

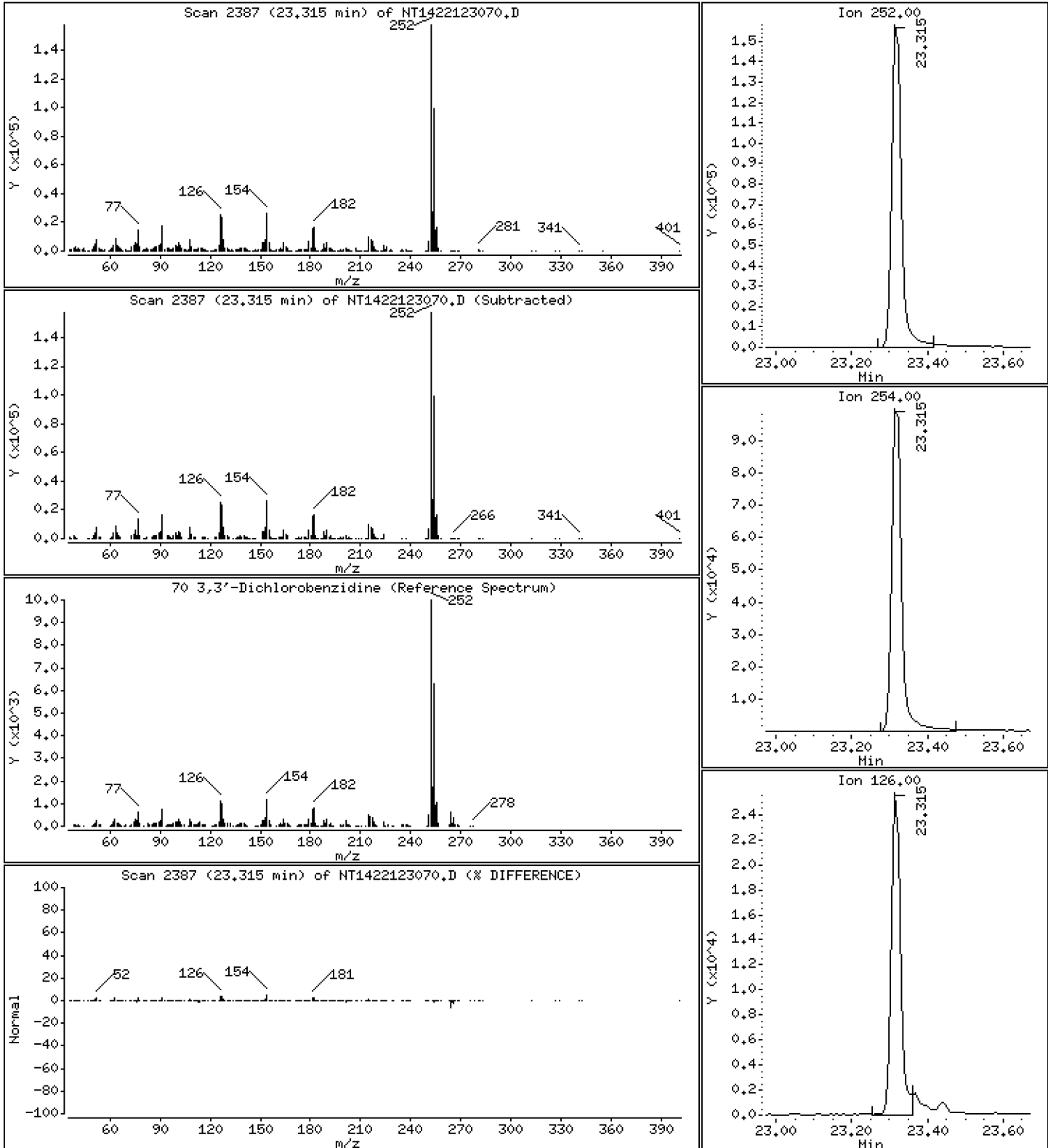
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 13,23 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

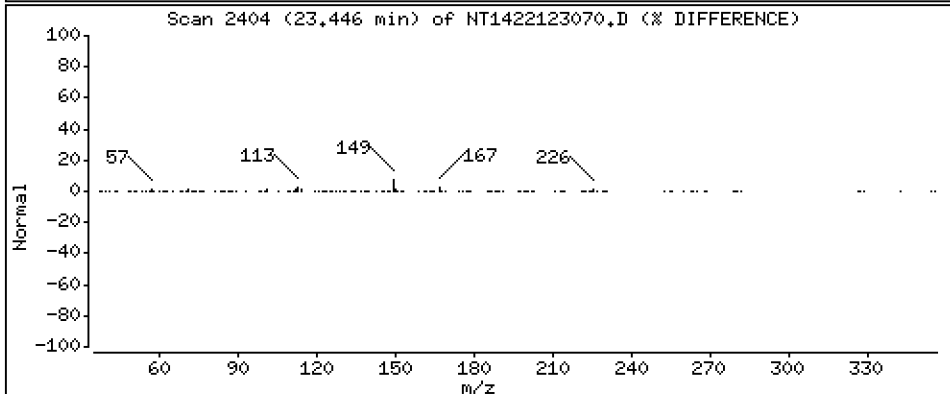
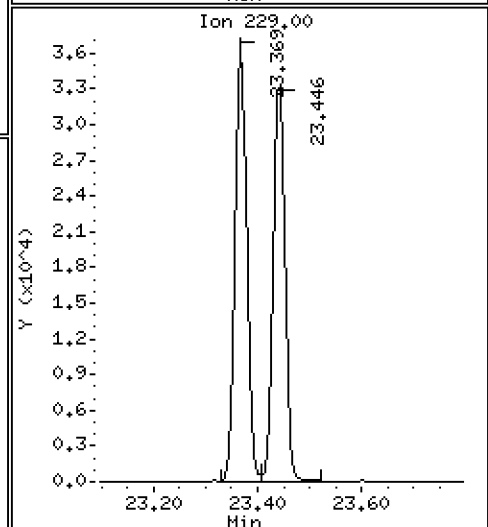
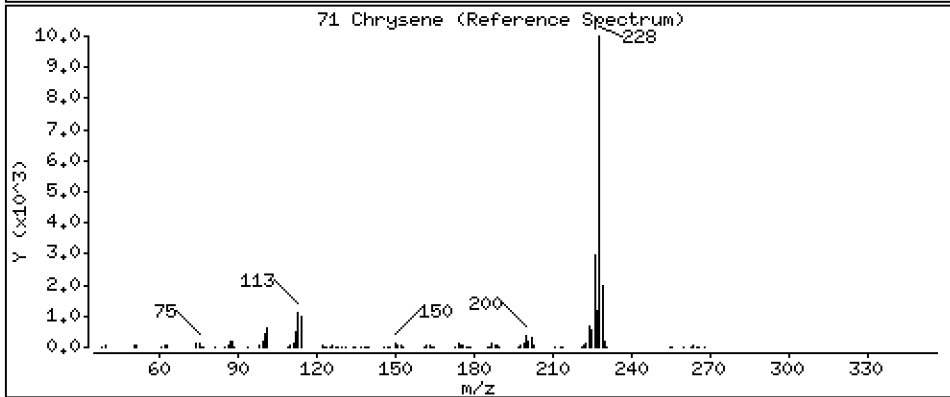
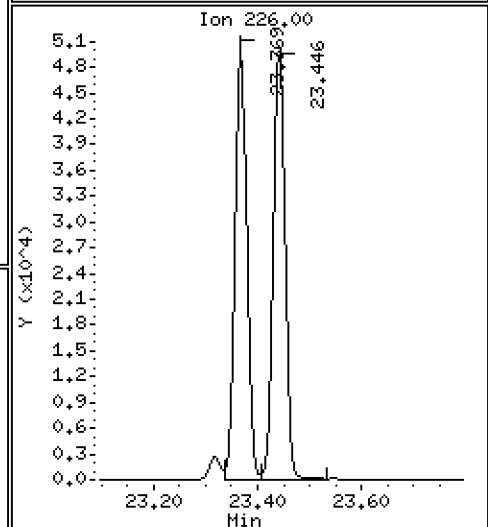
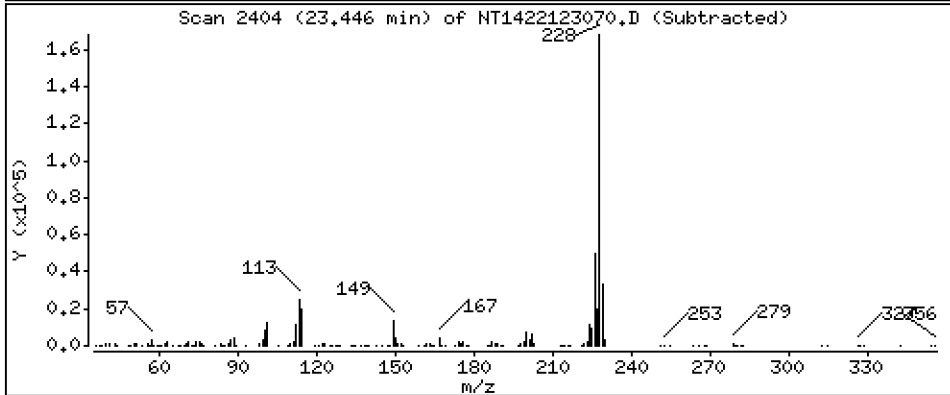
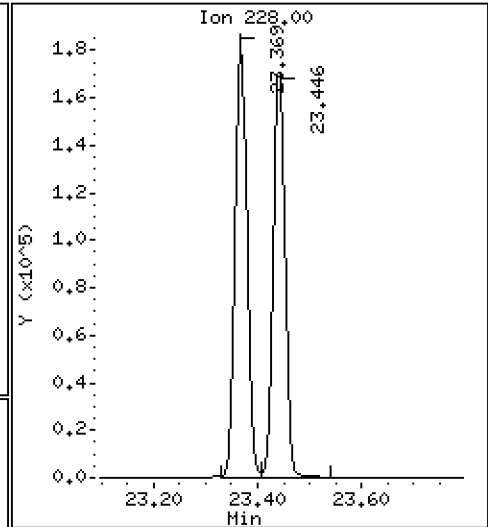
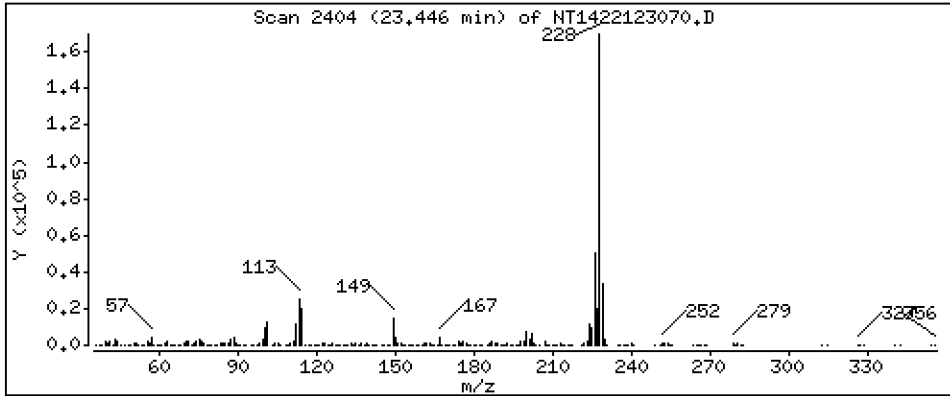
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,211 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

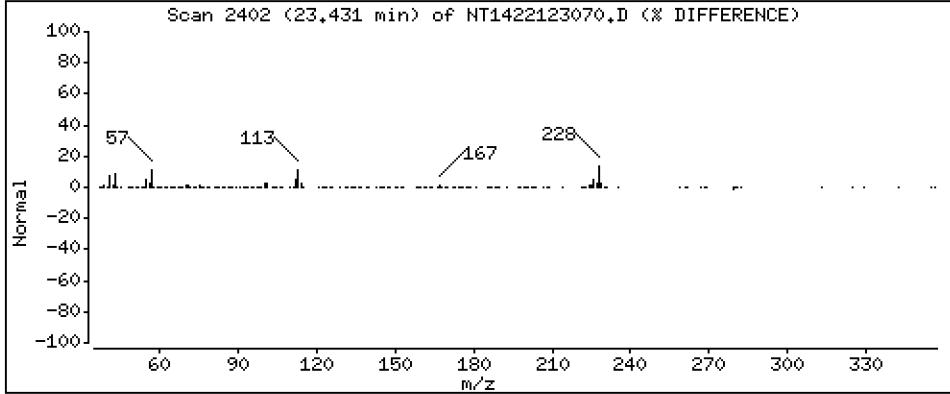
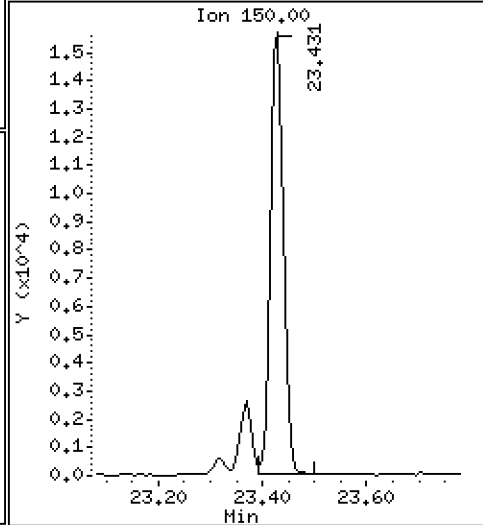
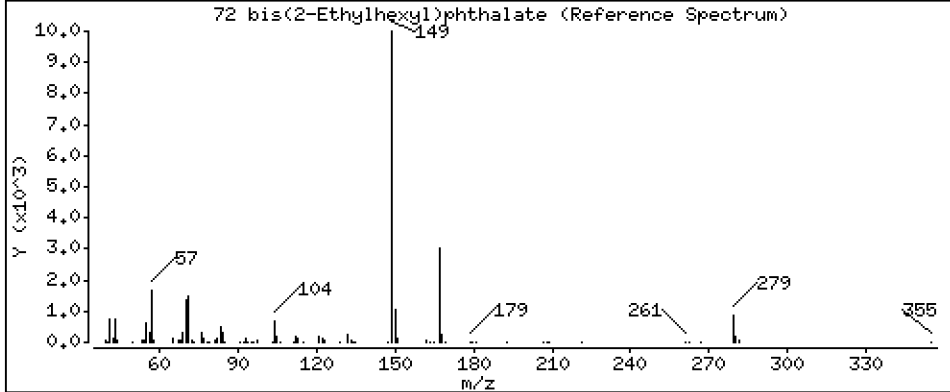
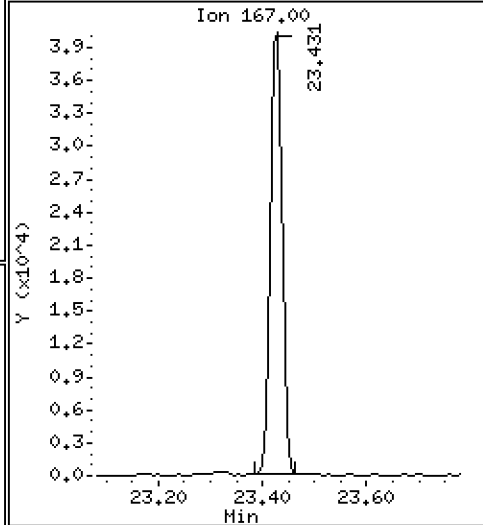
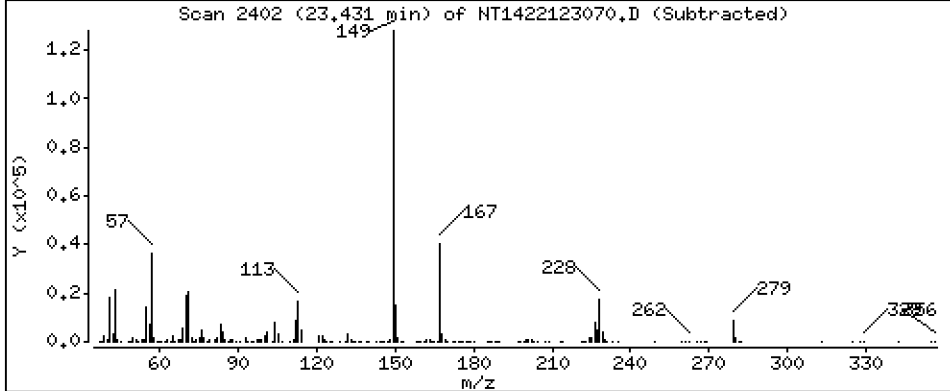
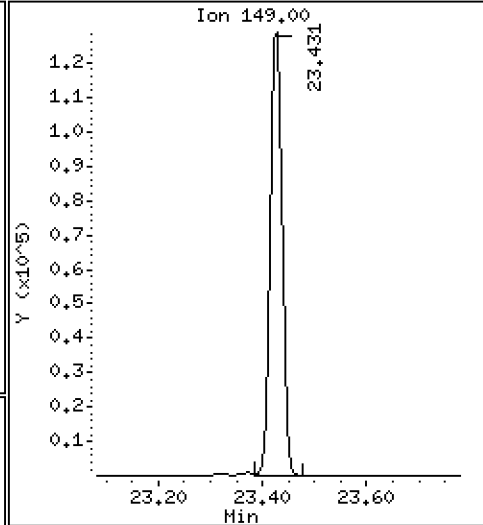
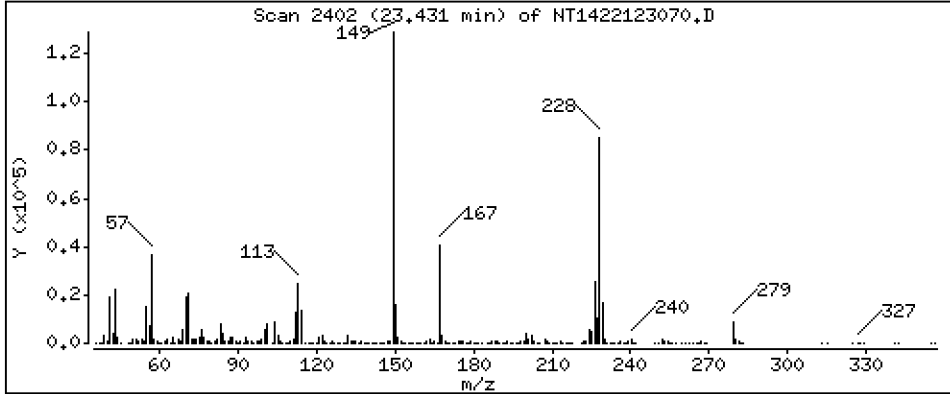
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,886 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

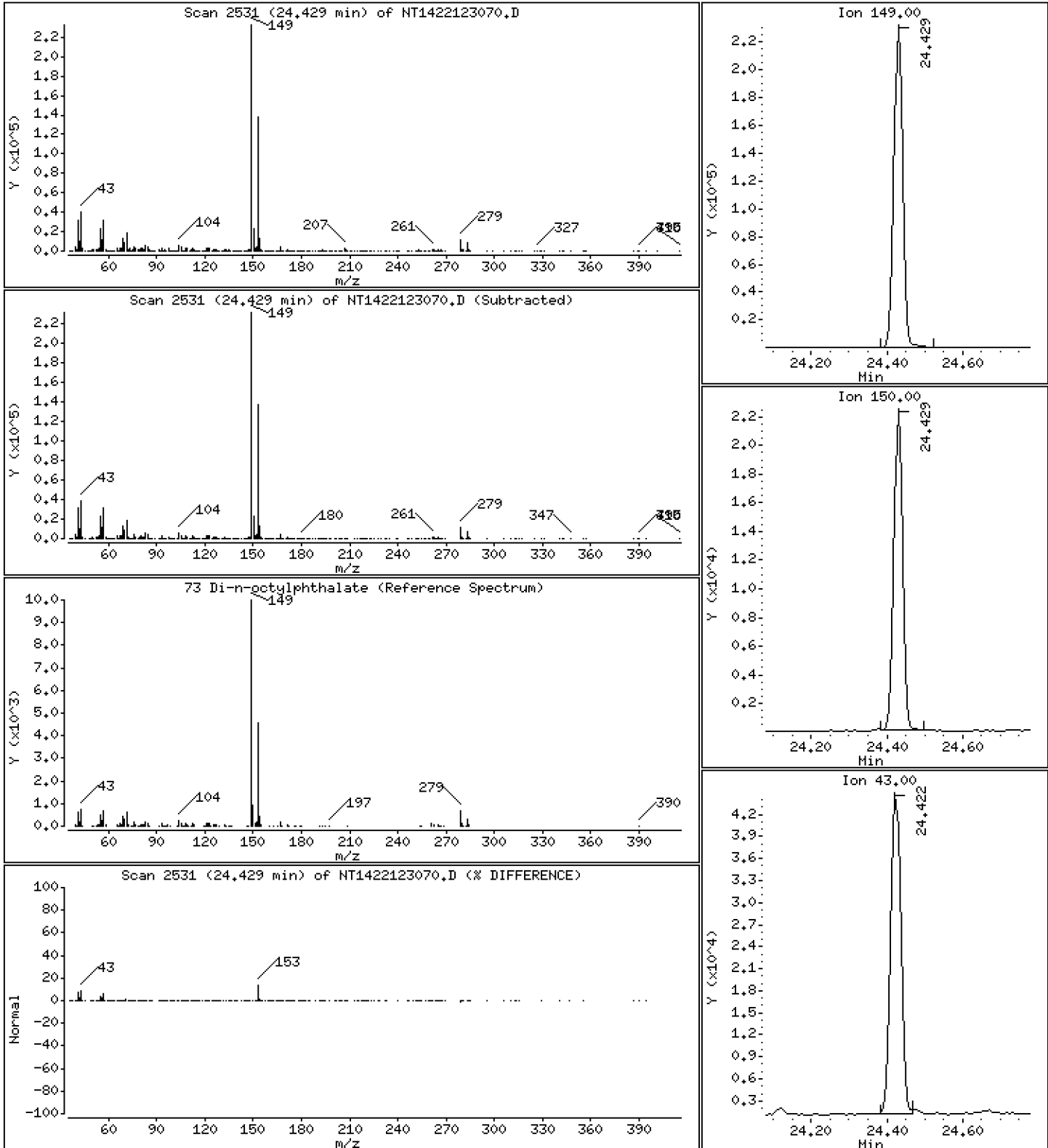
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,154 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

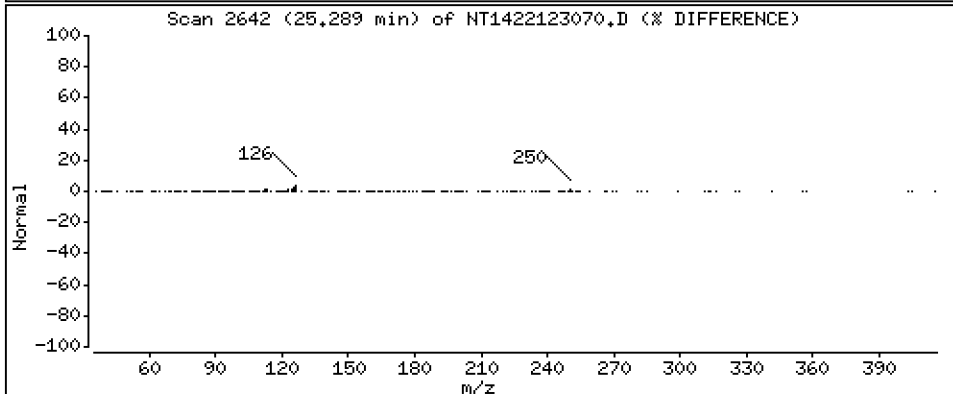
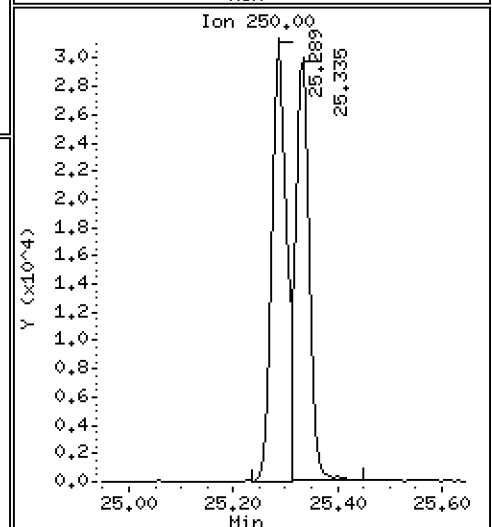
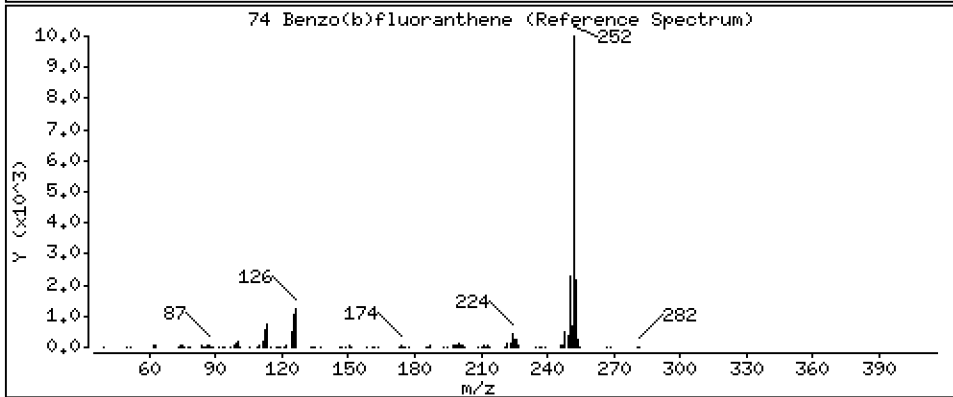
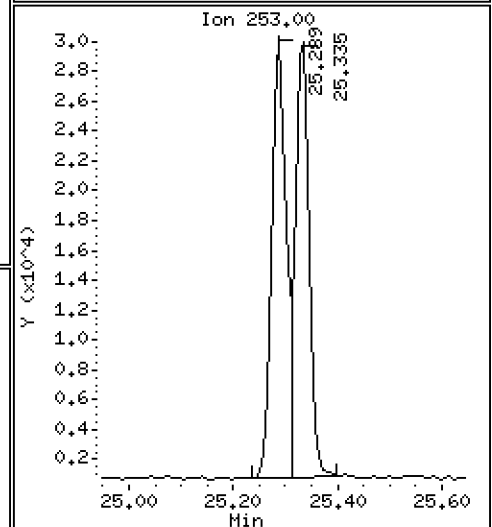
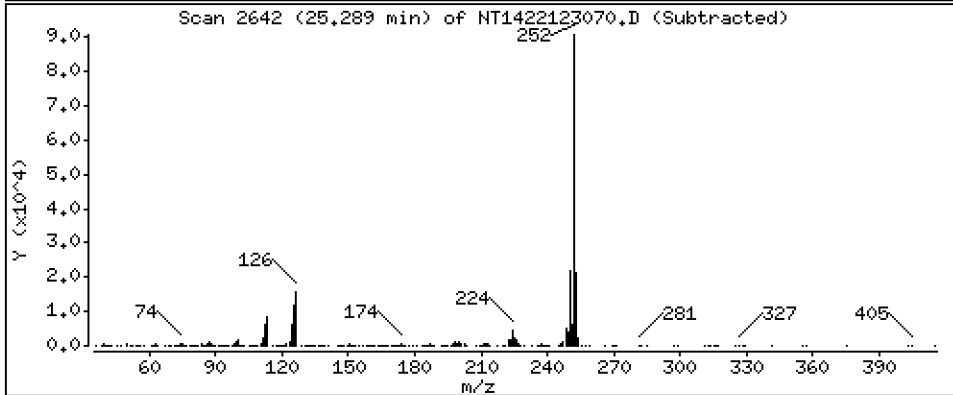
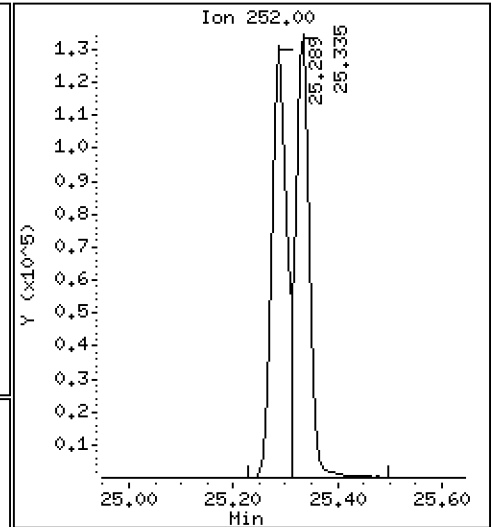
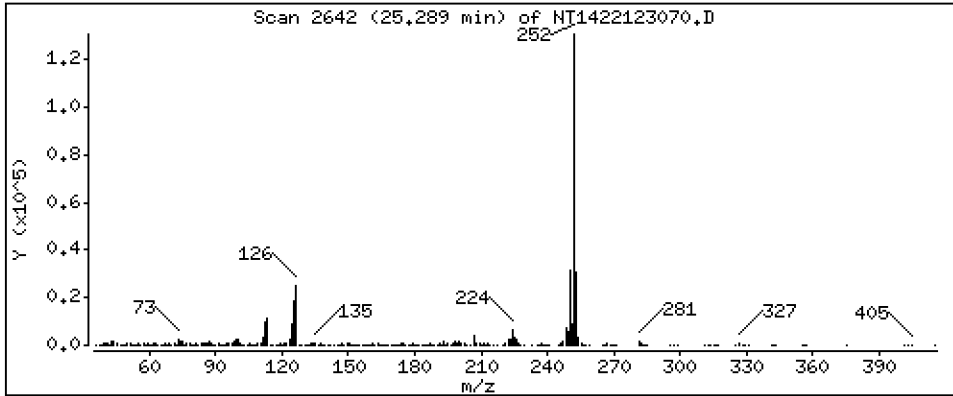
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,531 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

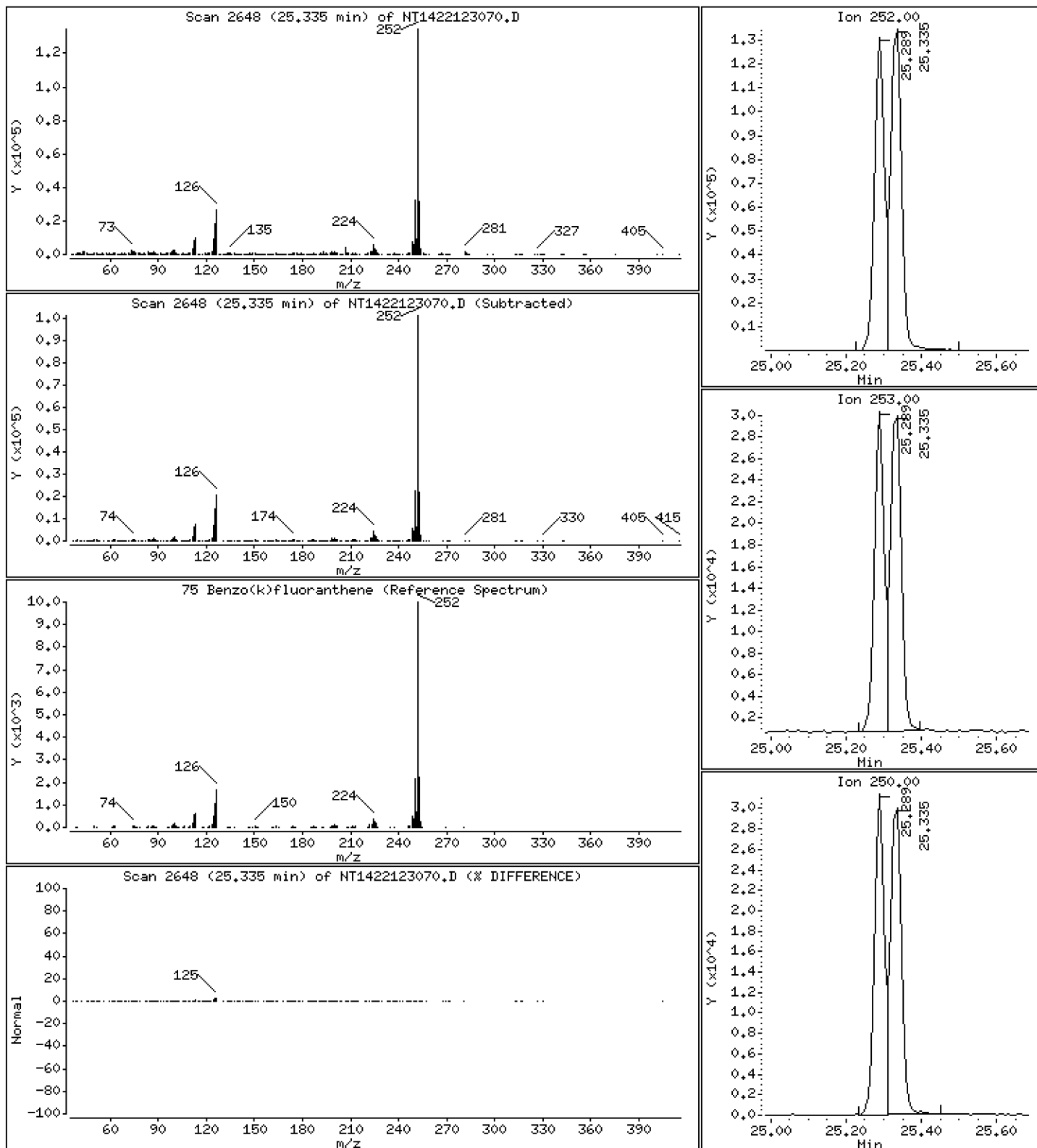
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,502 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

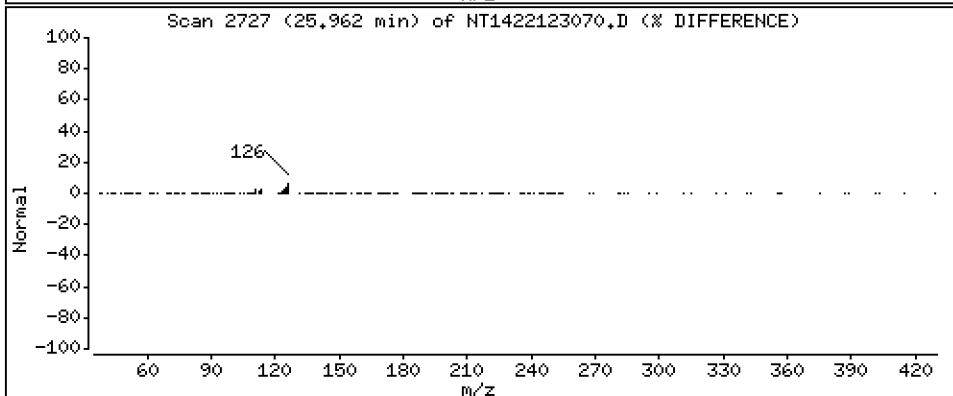
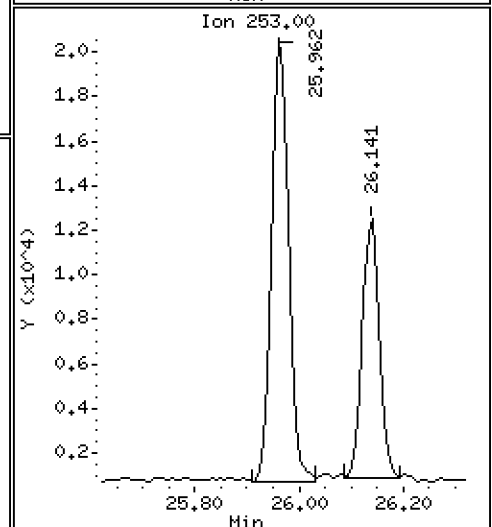
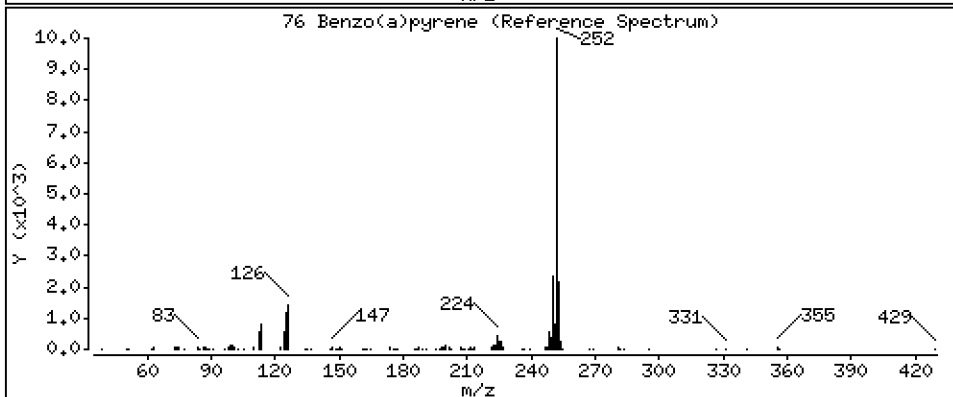
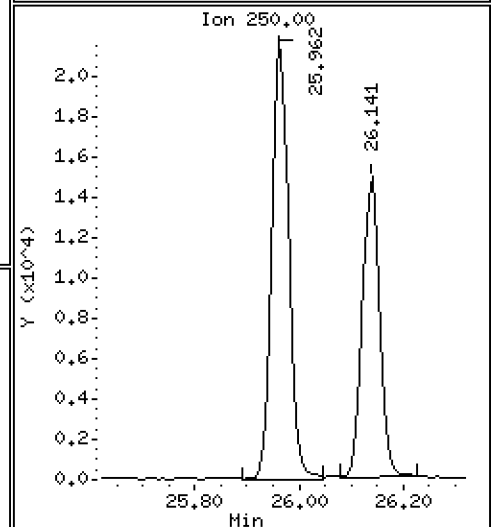
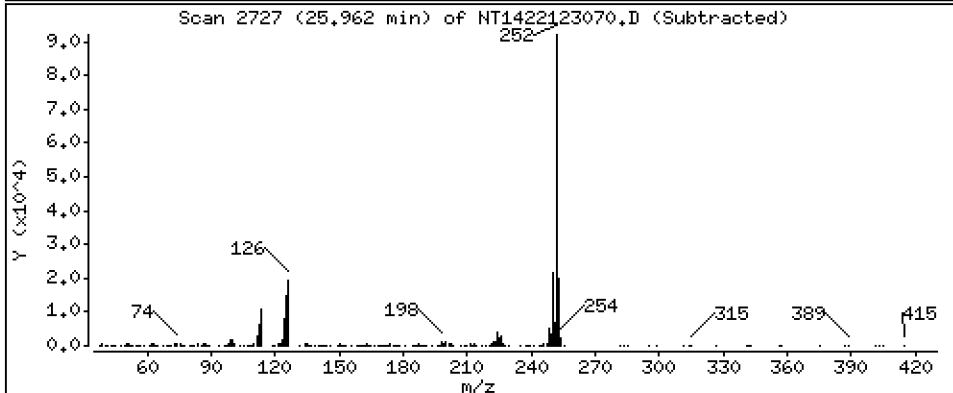
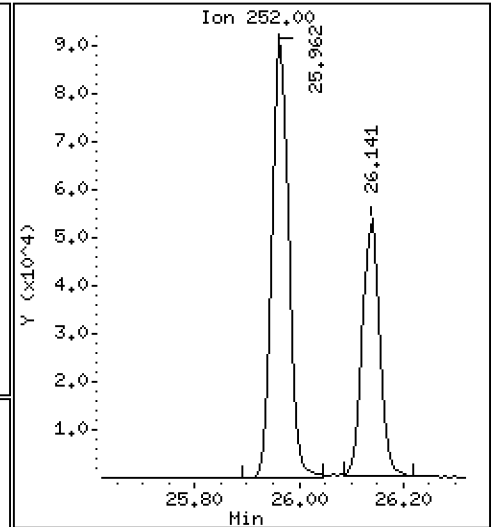
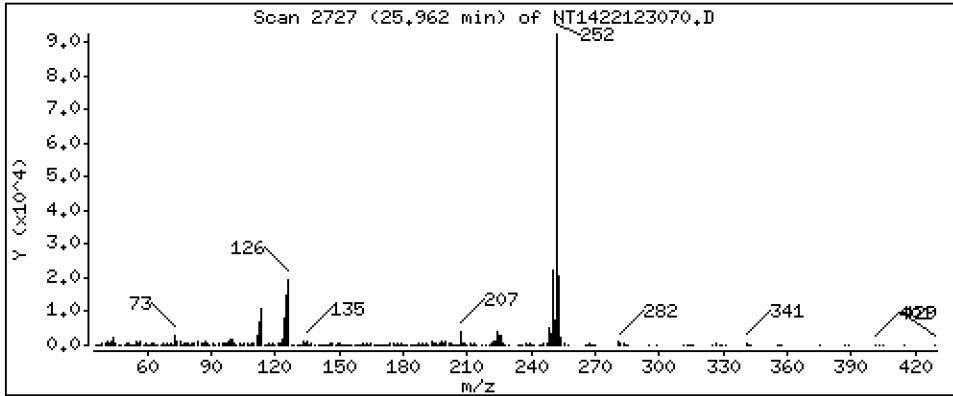
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,170 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

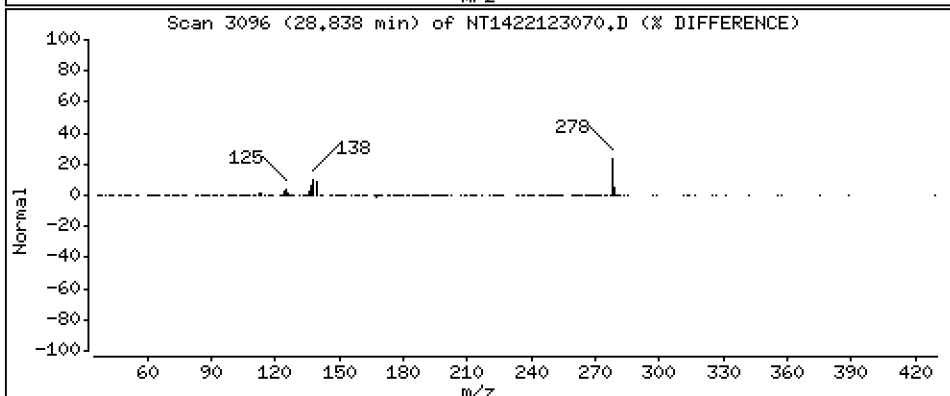
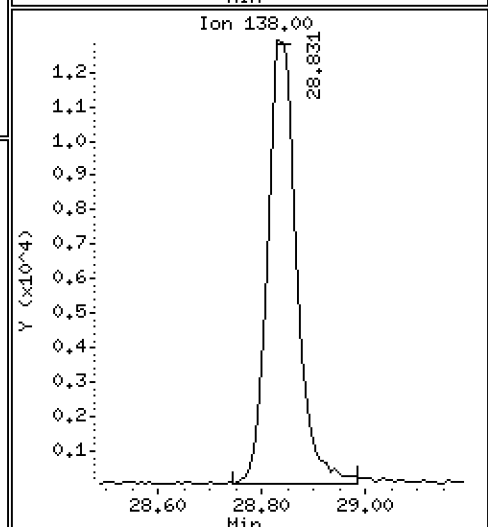
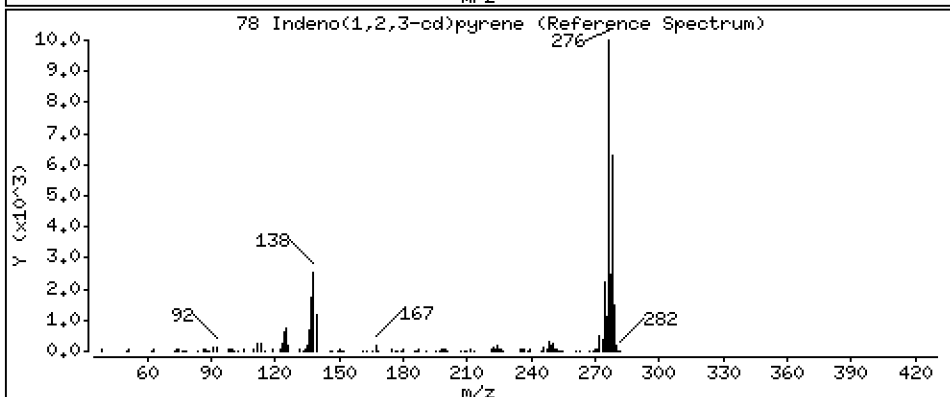
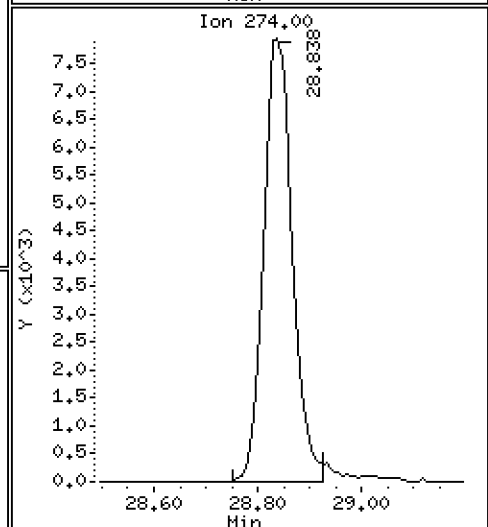
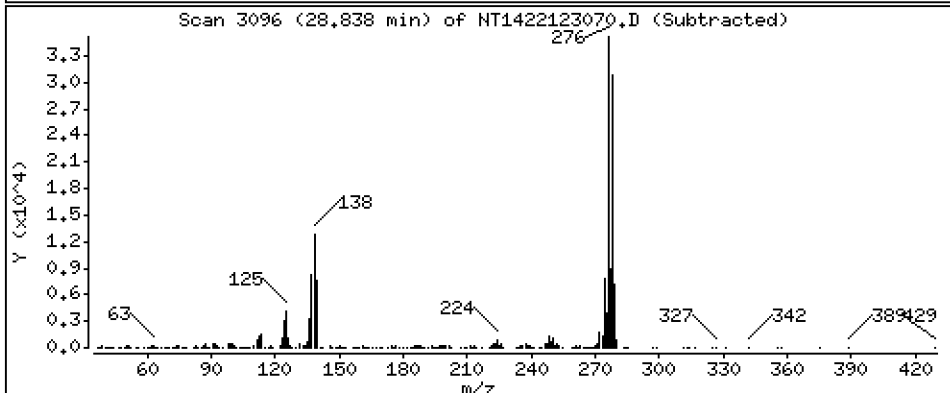
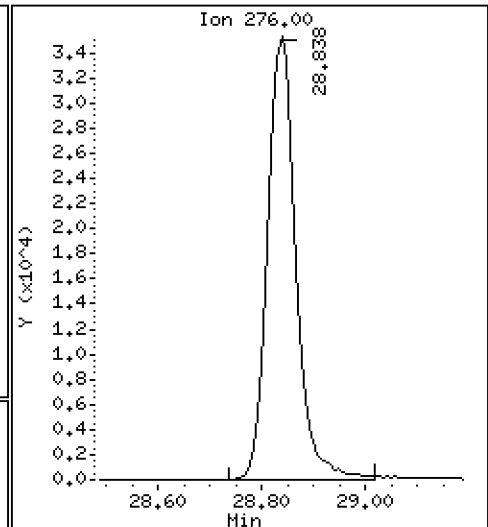
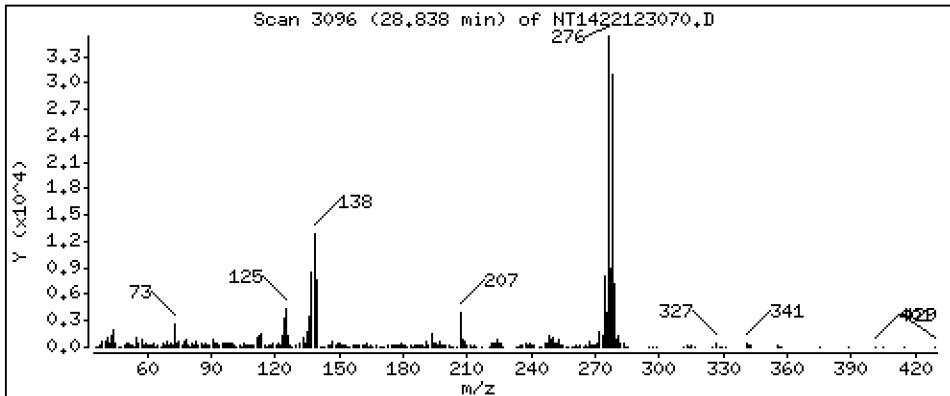
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,438 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

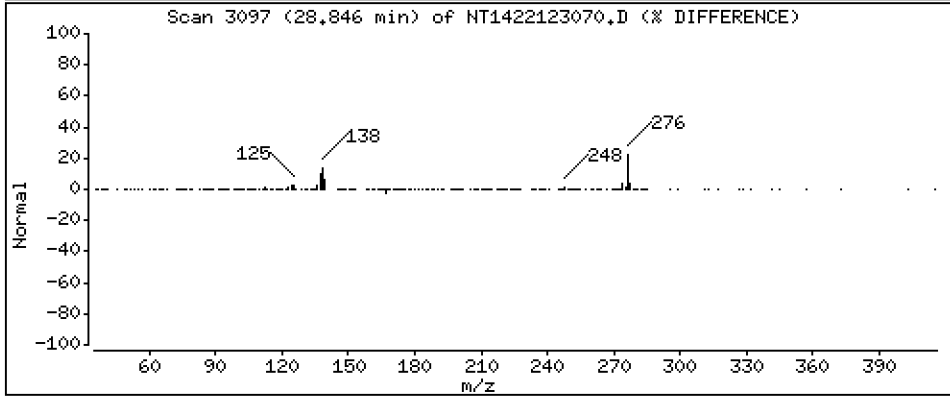
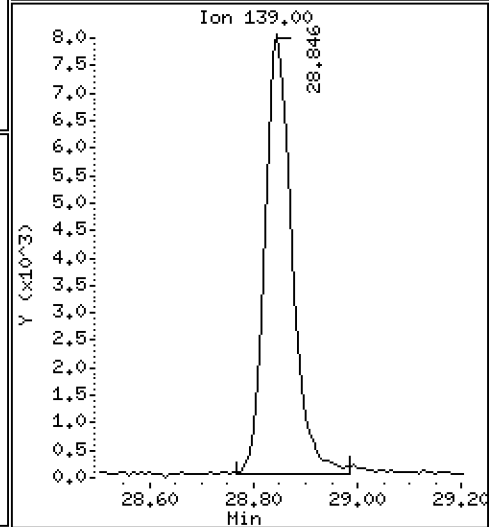
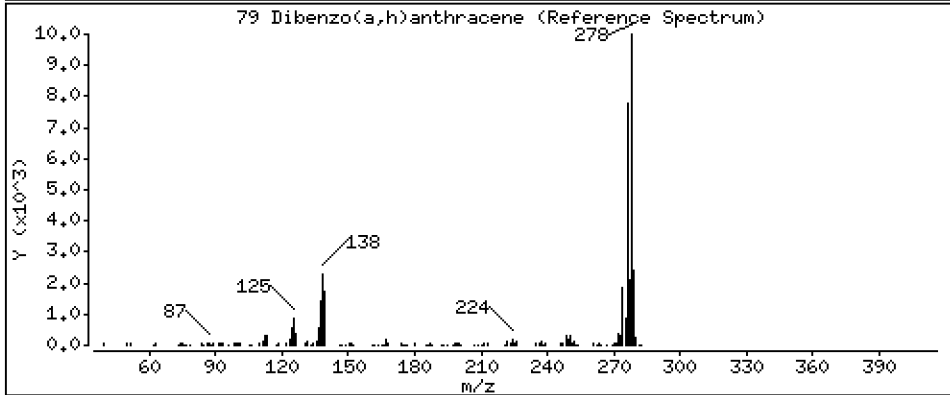
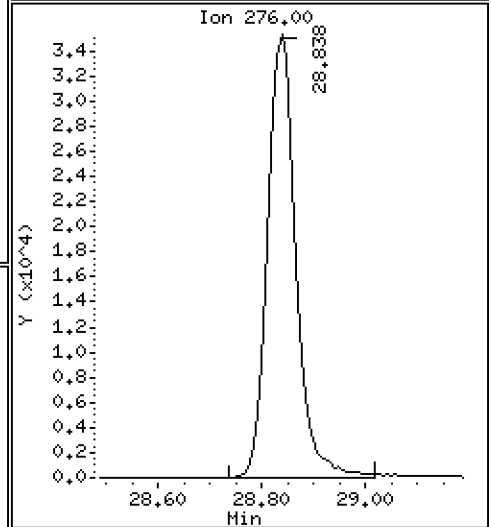
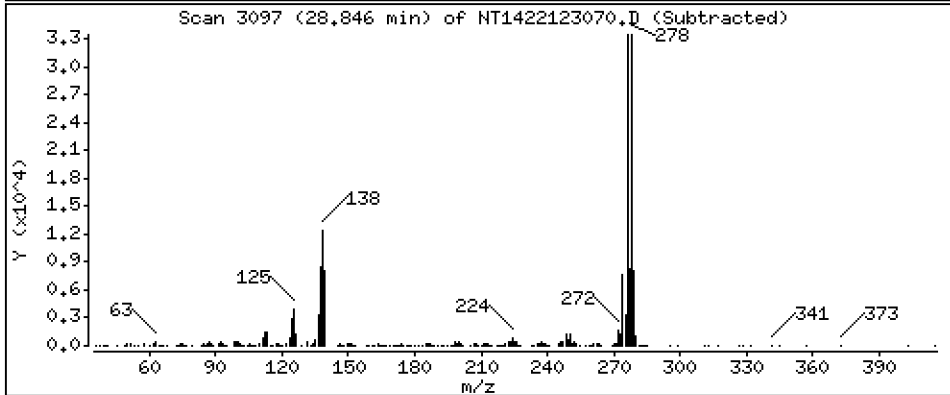
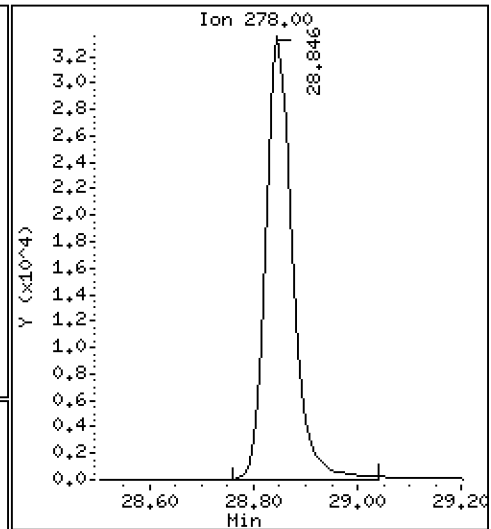
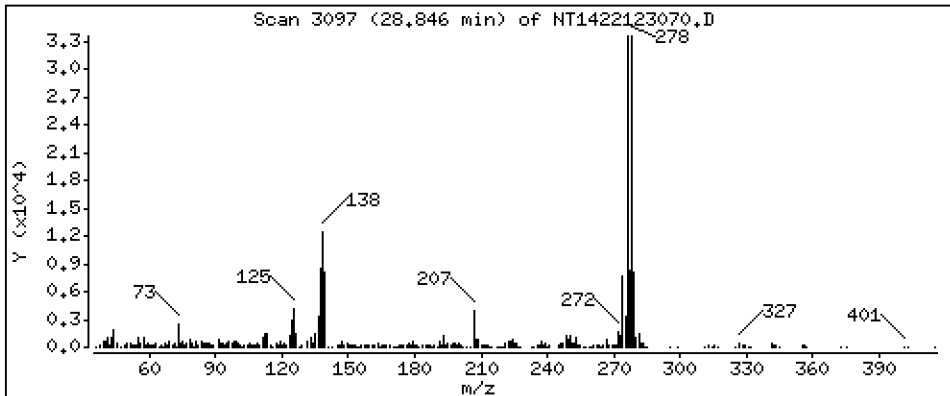
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,594 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

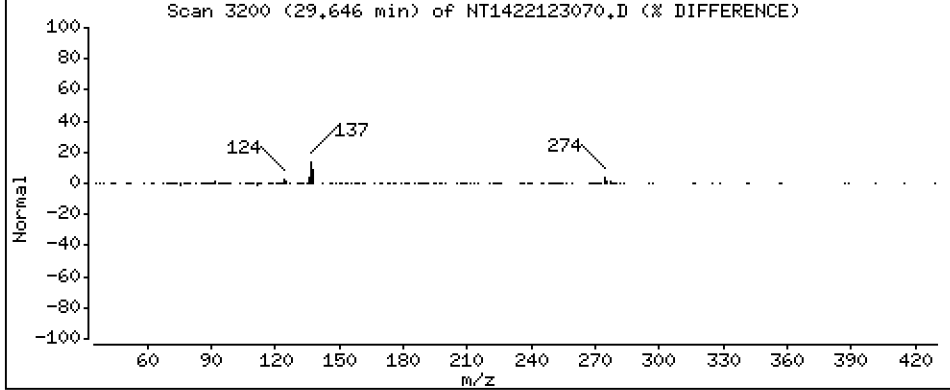
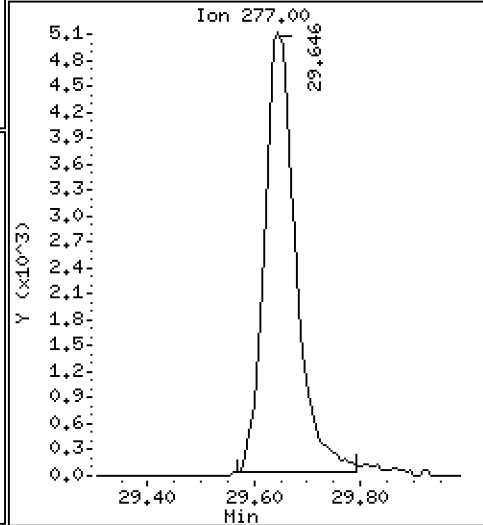
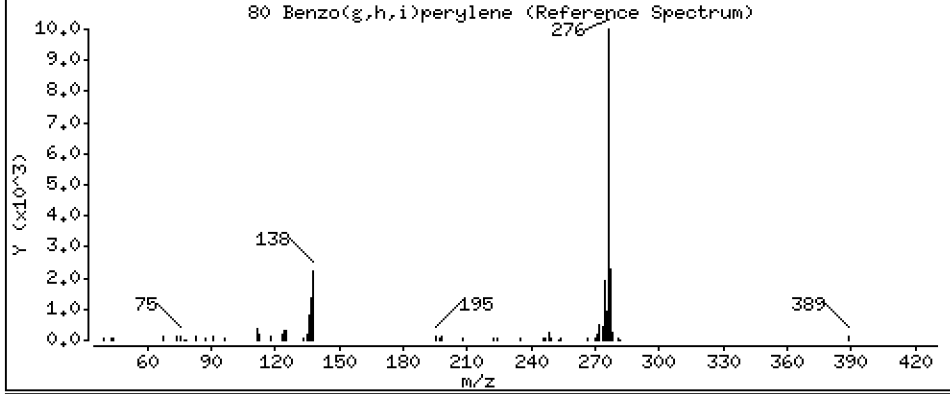
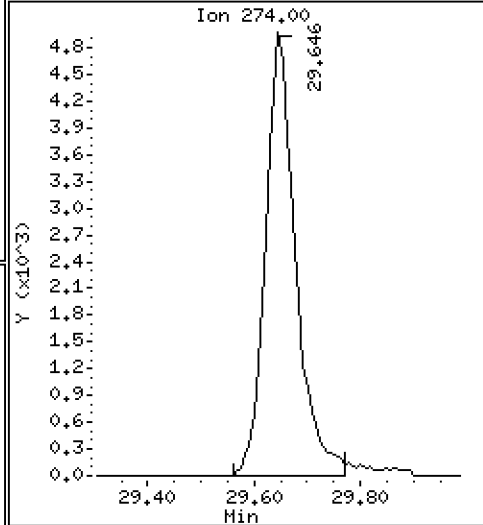
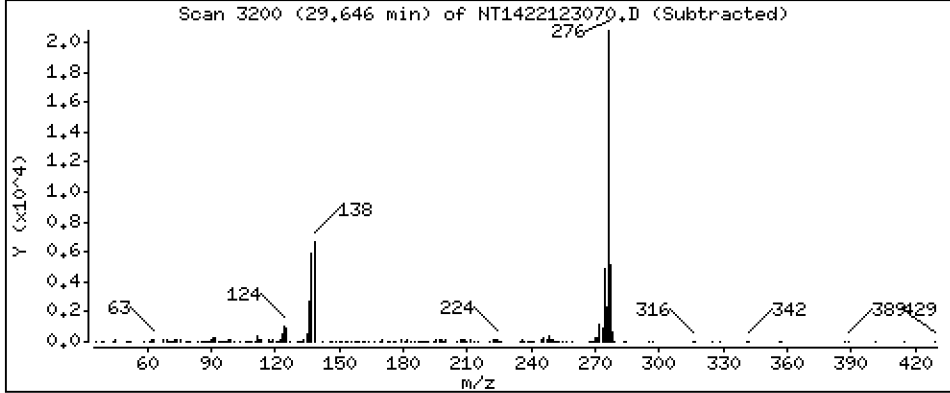
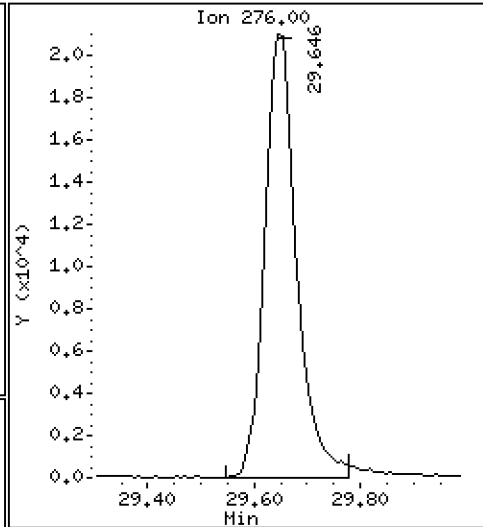
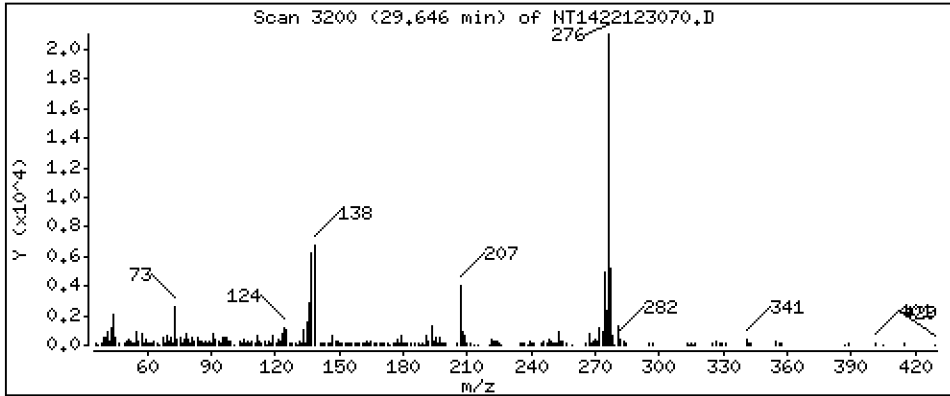
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 1,931 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

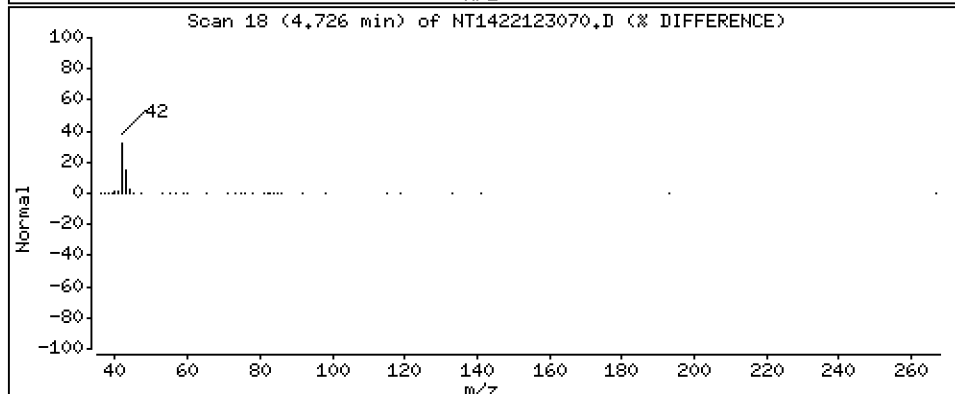
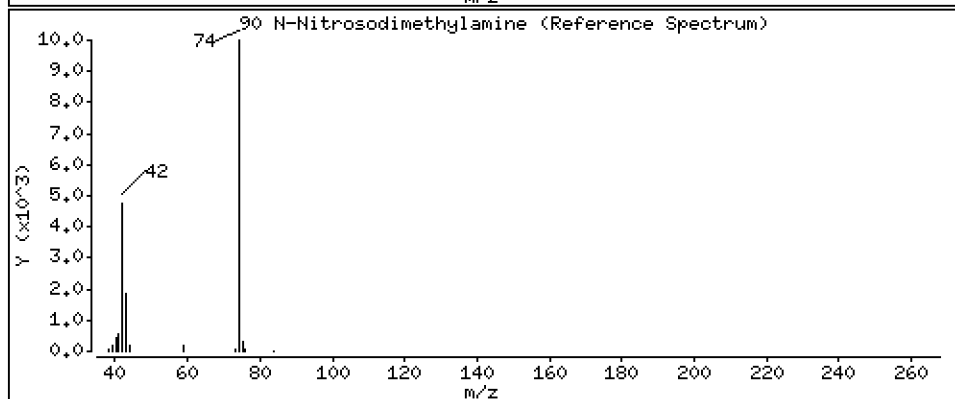
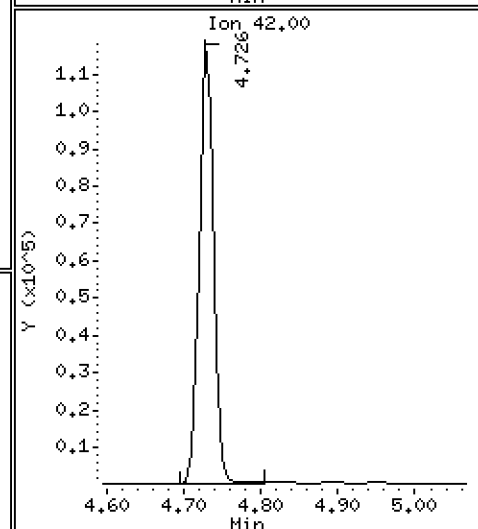
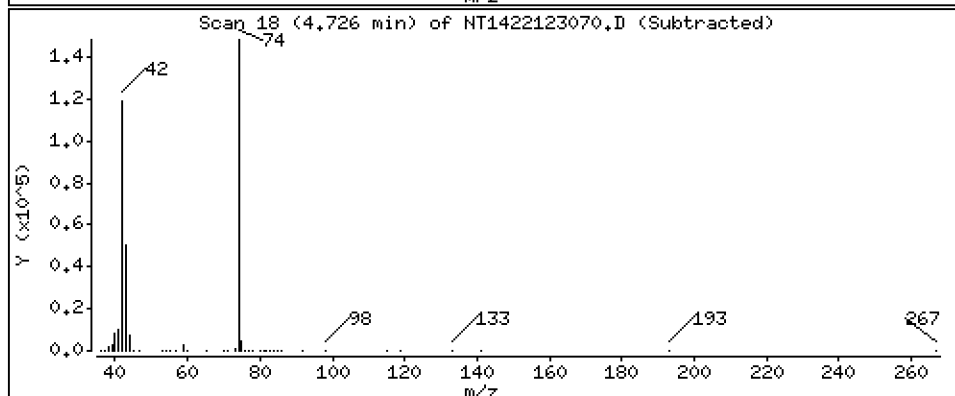
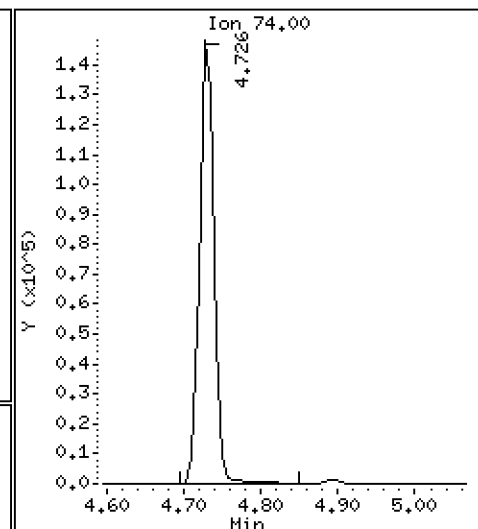
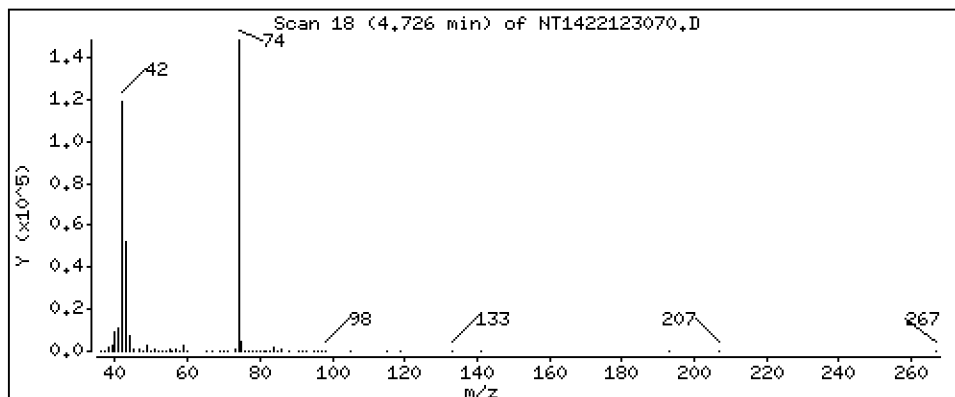
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 10,45 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

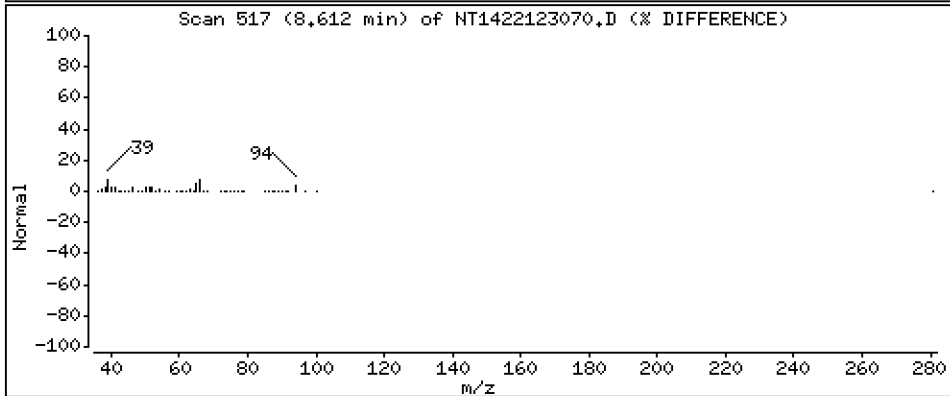
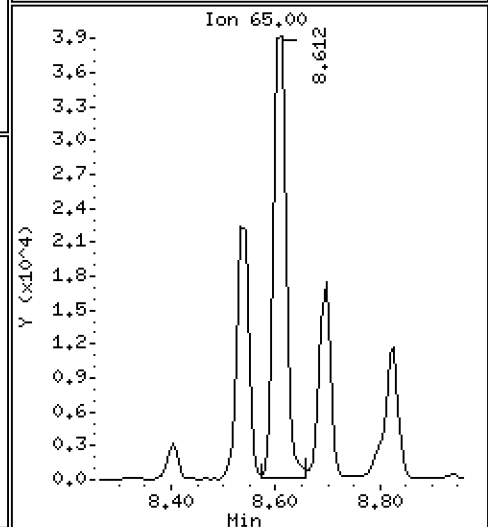
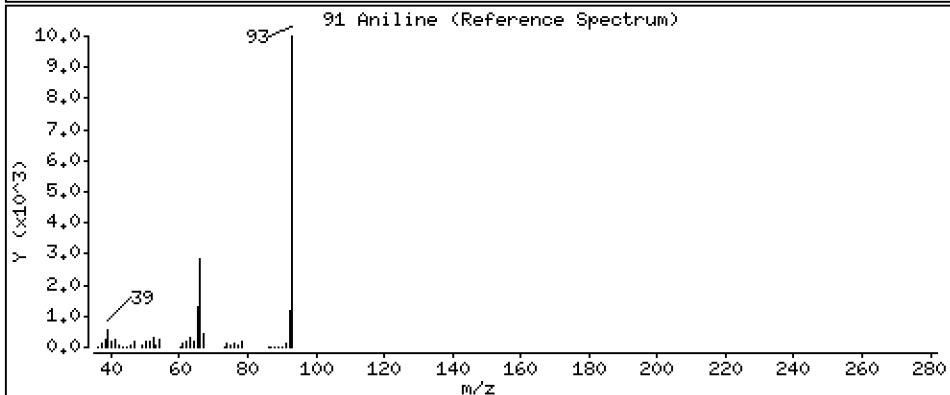
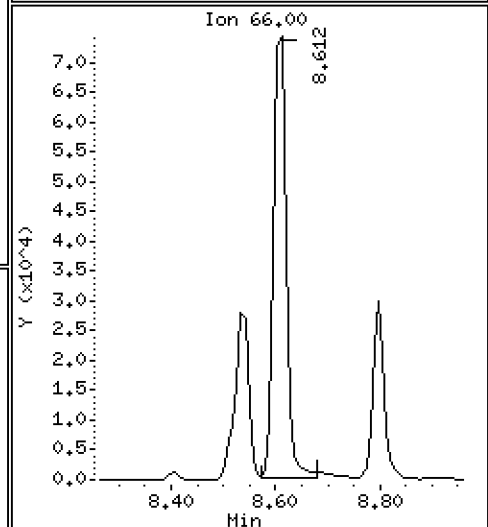
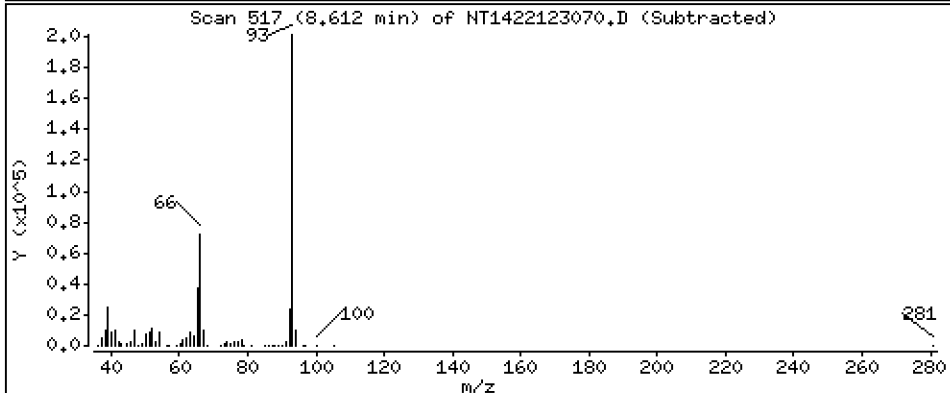
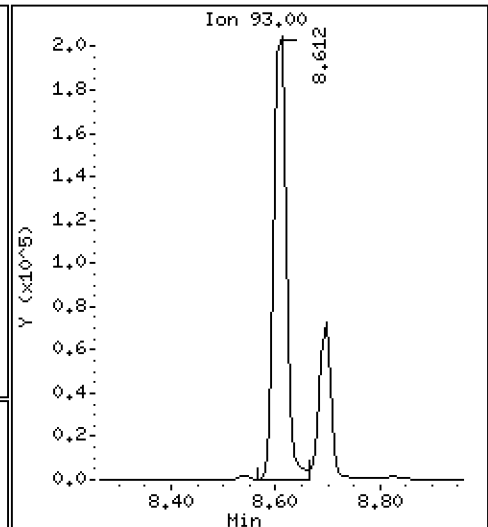
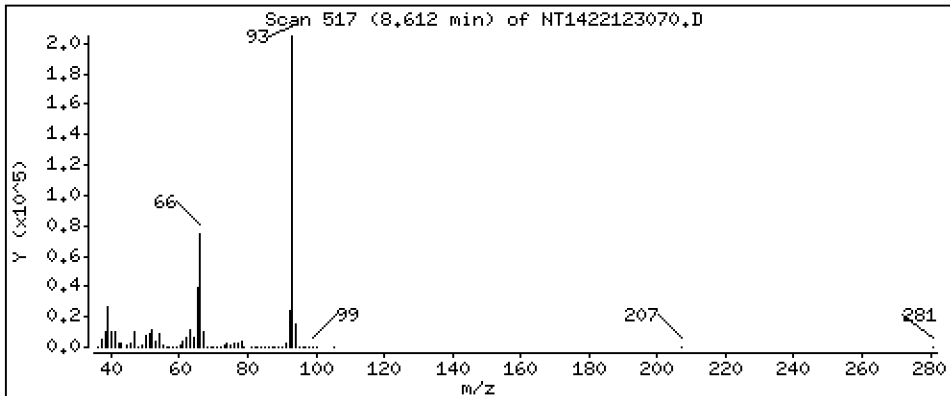
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 8,775 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

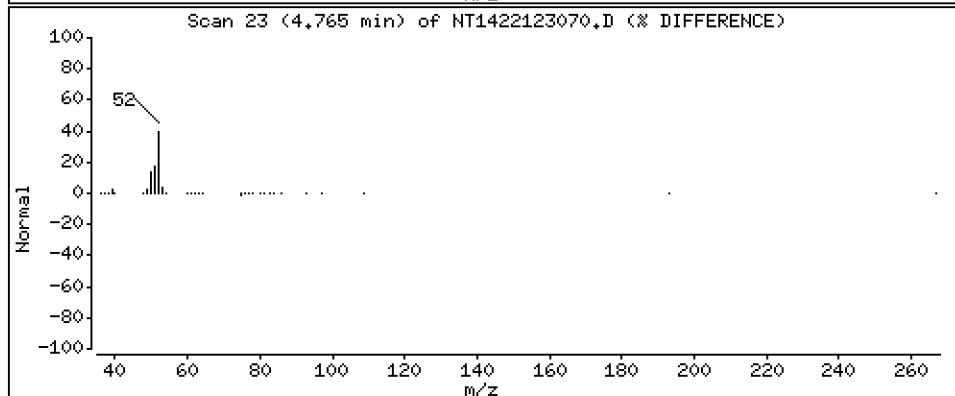
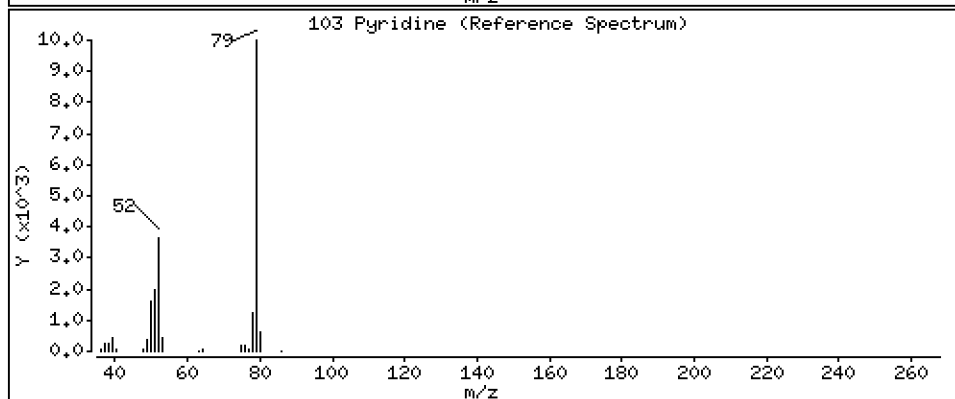
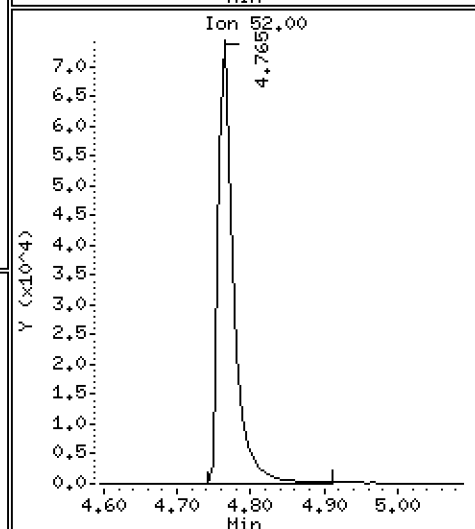
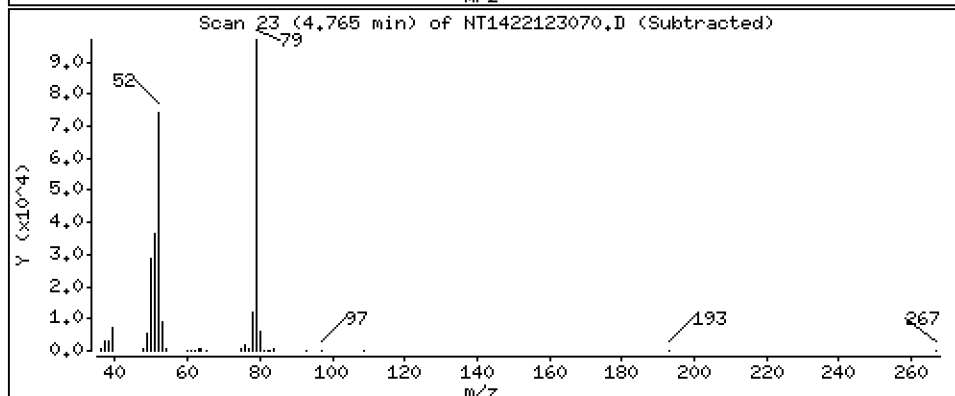
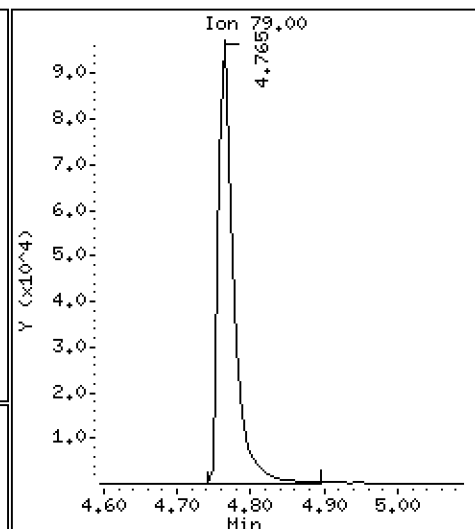
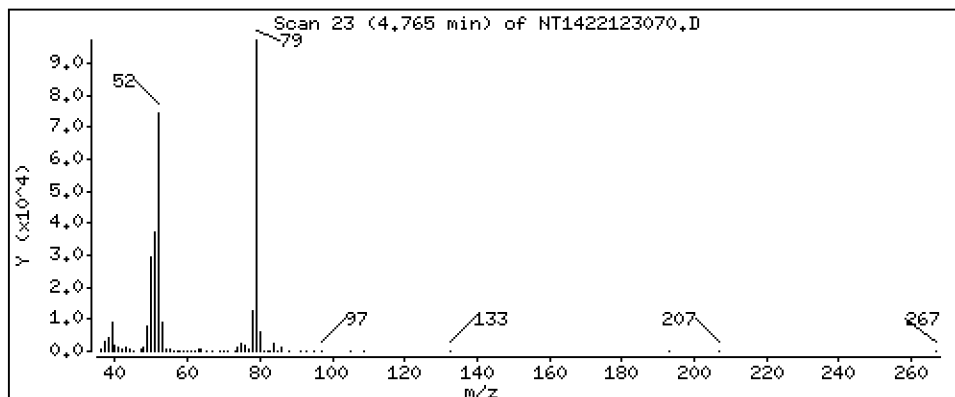
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,352 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

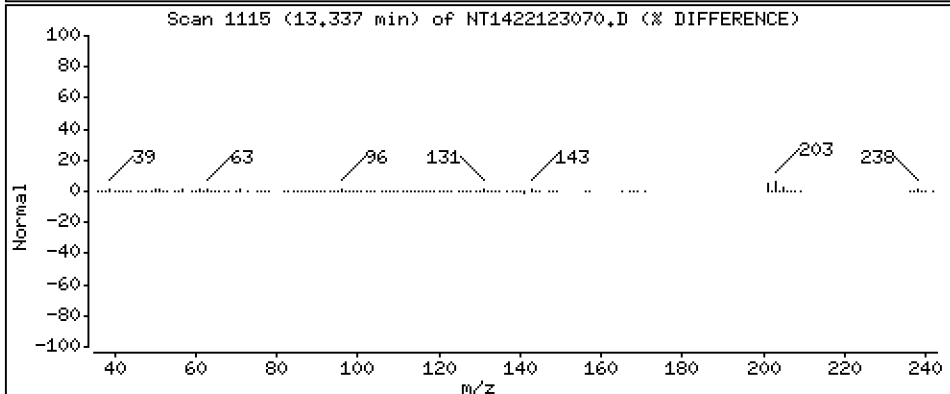
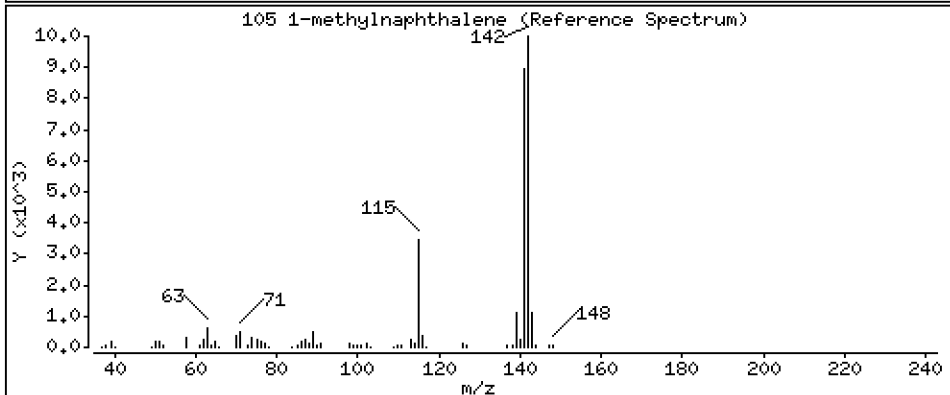
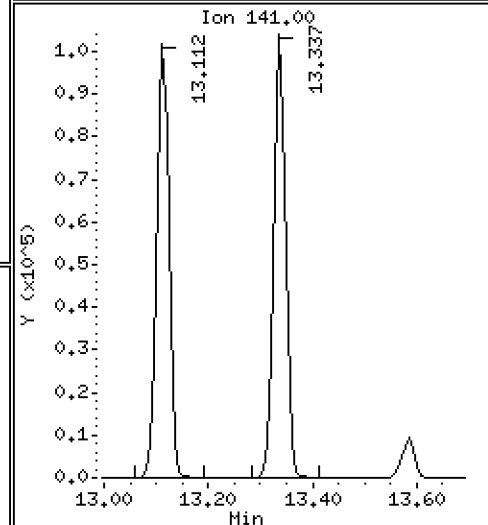
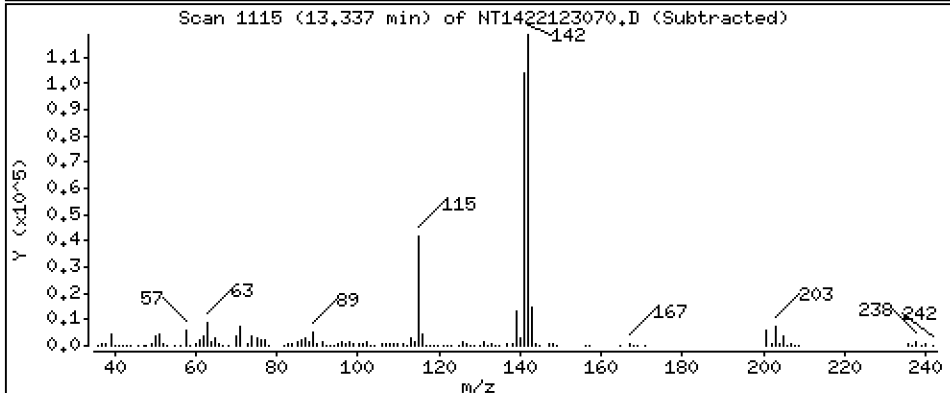
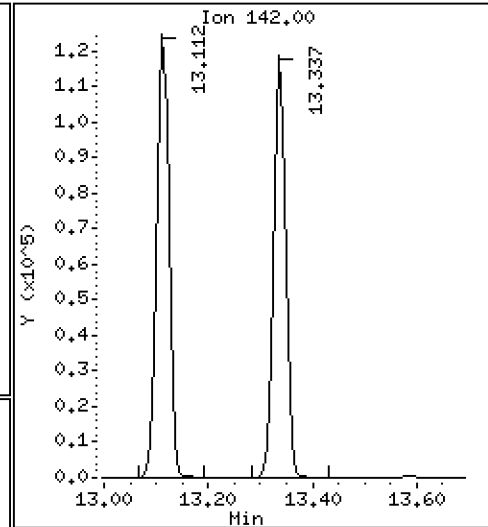
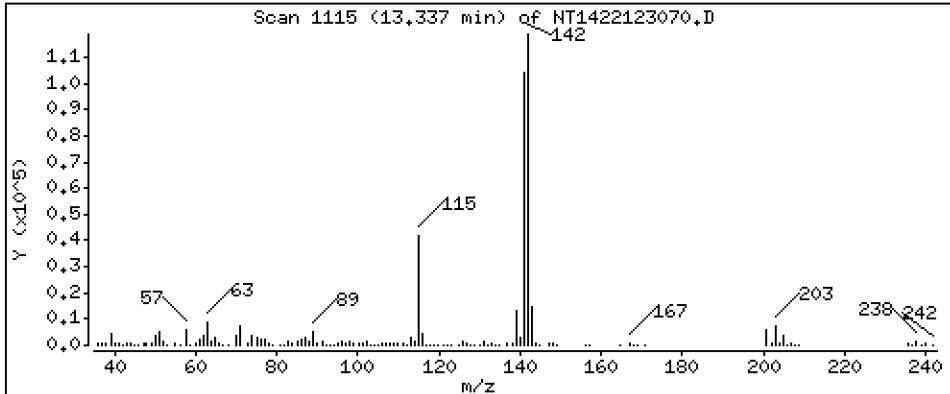
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 3,450 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

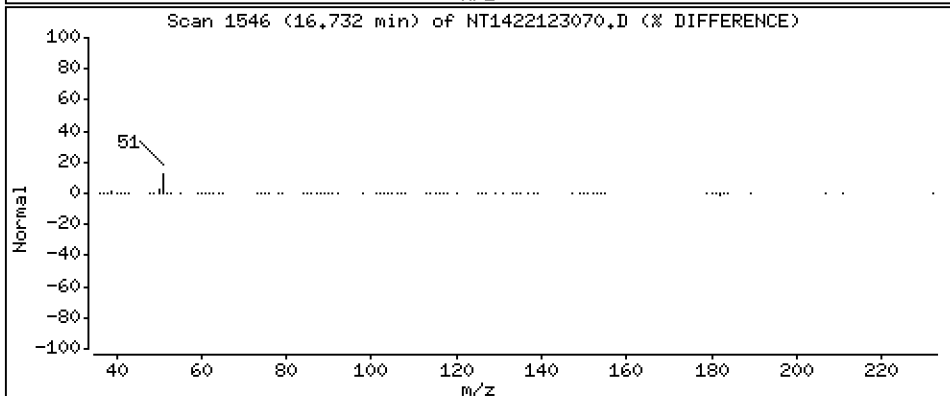
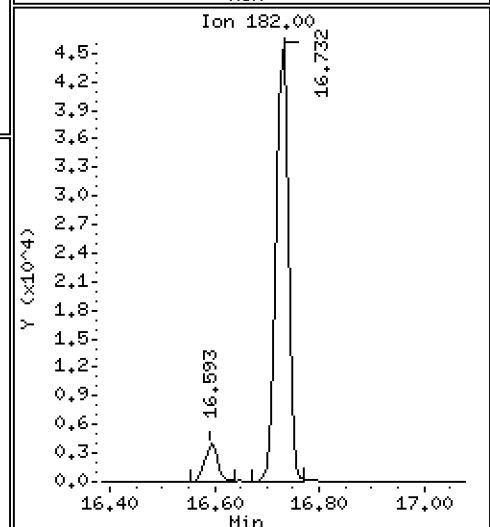
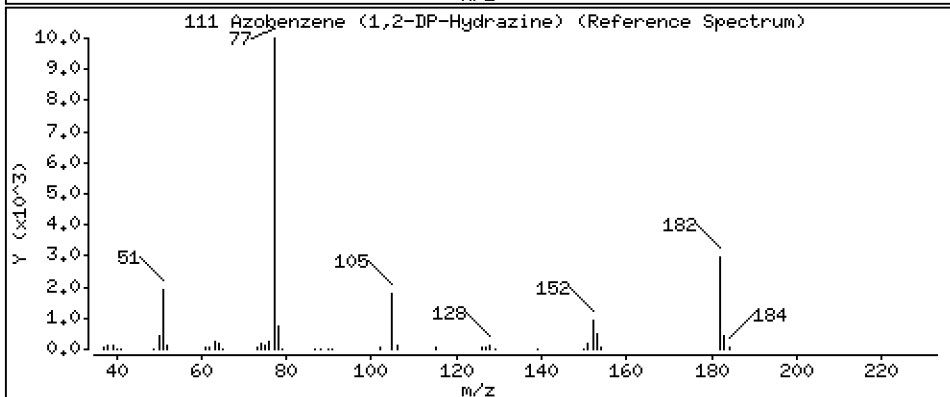
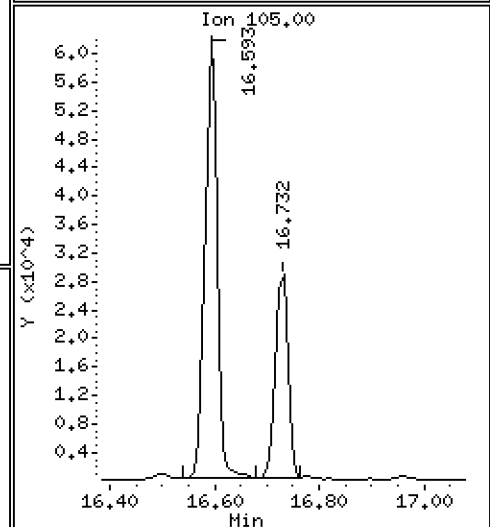
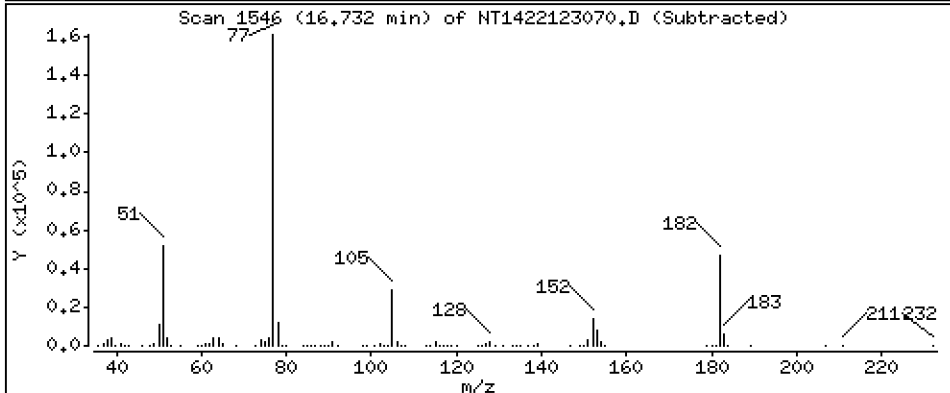
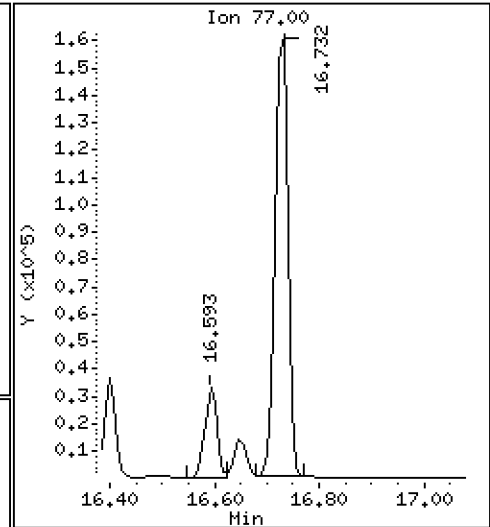
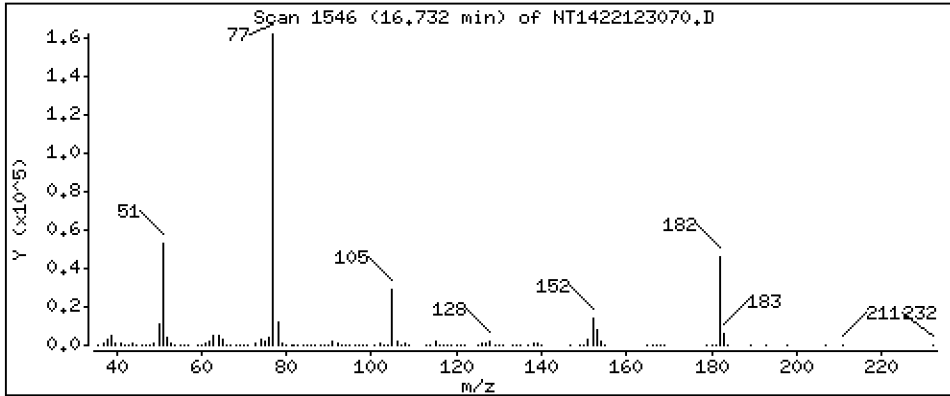
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,356 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

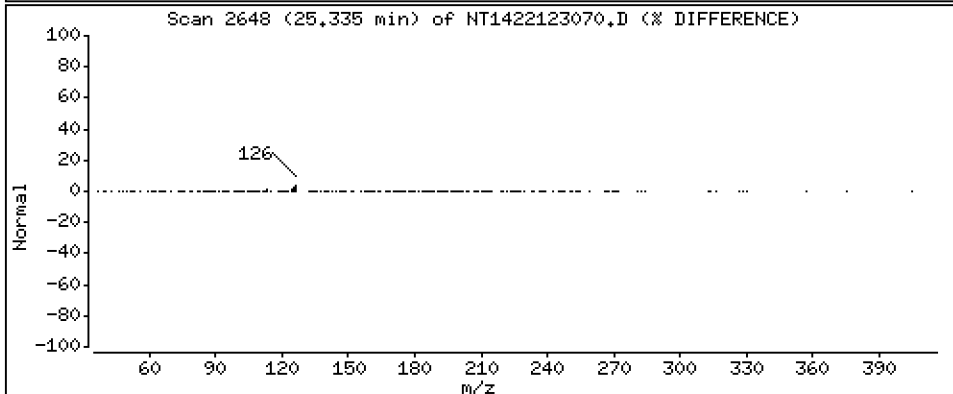
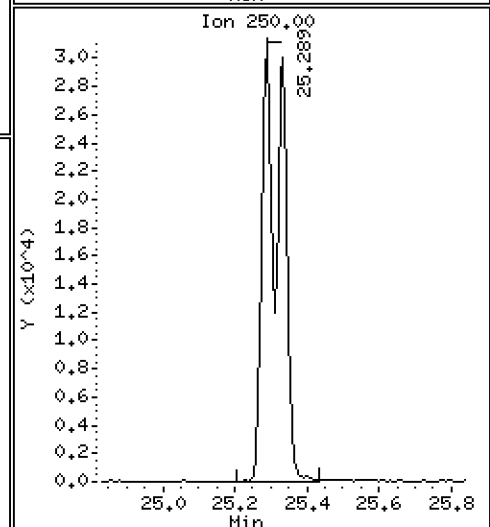
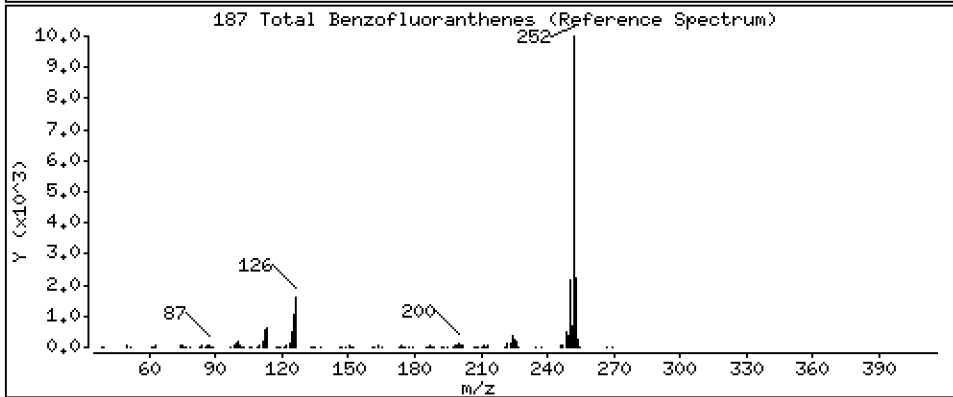
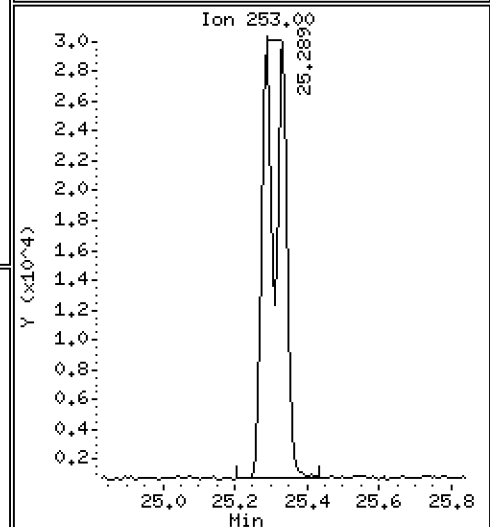
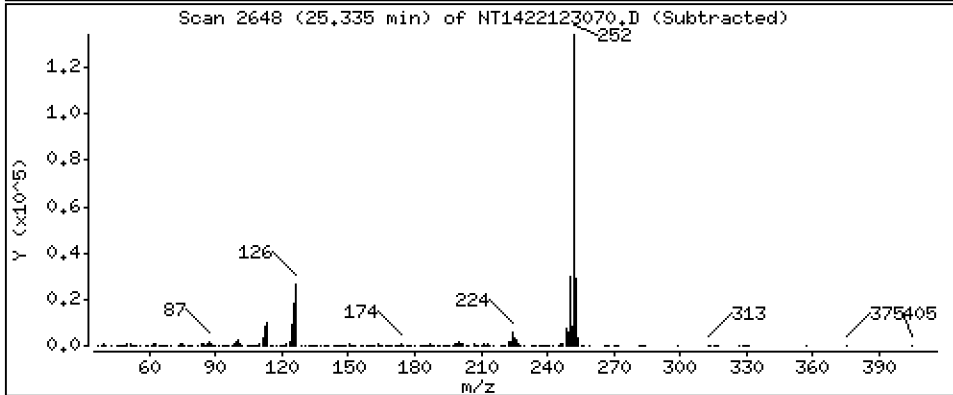
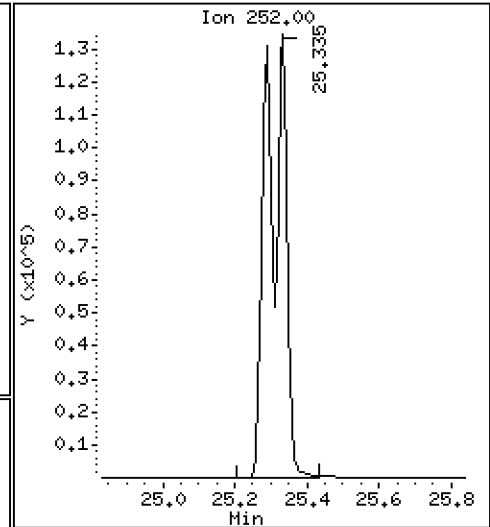
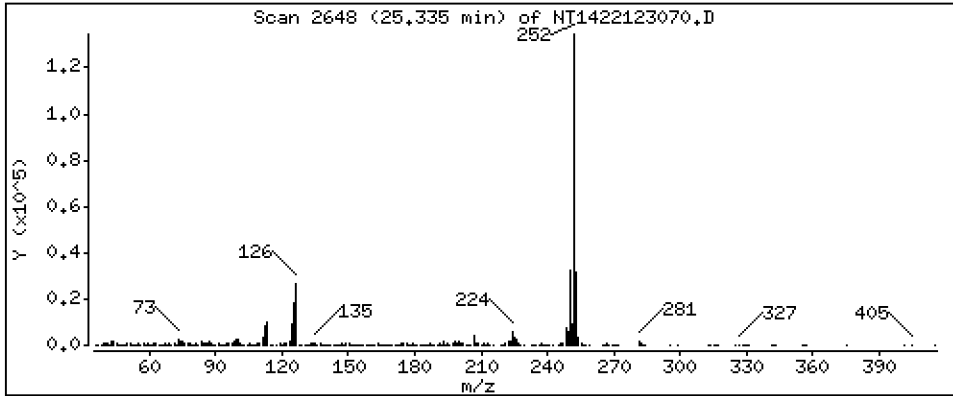
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 8,994 ug/mL



Date : 01-JAN-2023 01:53

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BS1

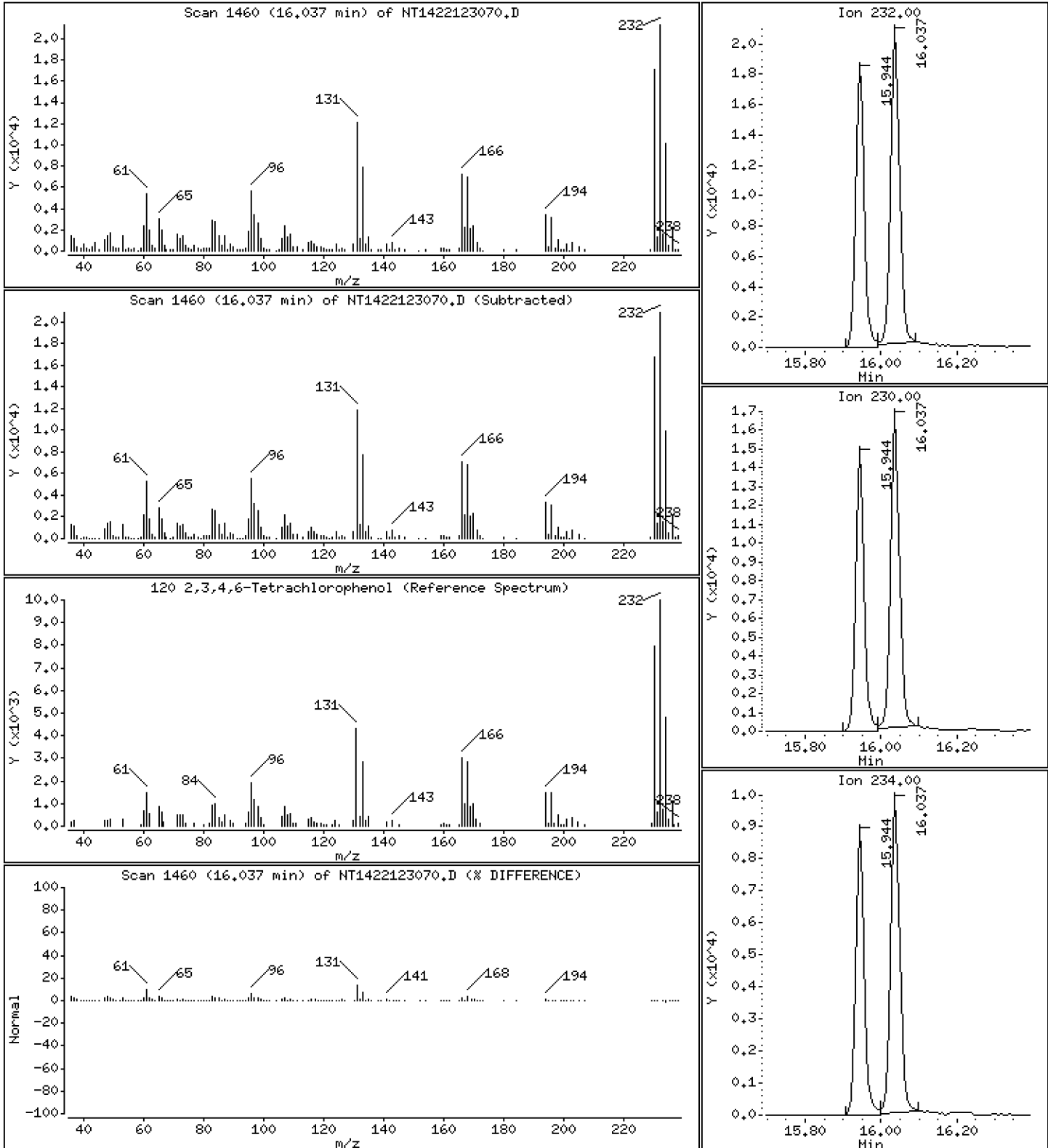
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 2,855 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123070.D
 Lab Smp Id: BKL0193-BS1
 Inj Date : 01-JAN-2023 01:53 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : BKL0193-BS1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 41
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.919	(0.756)	154586	5.70273	5.703
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	204423	6.10222	6.102
3 Phenol	94		8.542	8.542	(0.932)	120946	3.17733	3.177
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	170771	6.06980	6.070
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	104373	3.98039	3.980
6 2-Chlorophenol	128		8.827	8.827	(0.964)	98460	3.18655	3.187
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	106042	3.23648	3.236
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	84612	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	103372	3.33028	3.330
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	71102	3.69758	3.698
12 1,2-Dichlorobenzene	146		9.548	9.556	(1.042)	102023	3.35145	3.351
11 Benzyl alcohol	108		9.432	9.440	(1.030)	55033	3.24758	3.248
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	33348	3.77850	3.779
13 2-Methylphenol	108		9.657	9.665	(1.054)	78439	2.83583	2.836
17 Hexachloroethane	117		10.154	10.154	(1.108)	37931	3.32256	3.323
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	64327	3.81771	3.818
15 4-Methylphenol	108		9.936	9.936	(1.085)	90871	3.11427	3.114
\$ 18 Nitrobenzene-d5	82		10.255	10.262	(0.879)	114552	4.39664	4.397
19 Nitrobenzene	77		10.293	10.301	(0.882)	99595	3.84899	3.849
20 Isophorone	82		10.743	10.751	(0.921)	189122	5.73469	5.735
21 2-Nitrophenol	139		10.930	10.937	(0.937)	55214	3.39520	3.395
22 2,4-Dimethylphenol	107		10.984	10.992	(0.942)	221253	8.19272	8.193
23 Bis(2-Chloroethoxy)methane	93		11.178	11.186	(0.958)	109983	4.28698	4.287
24 Benzoic acid	105		11.178	11.209	(0.958)	290426	16.9974	17.00
25 2,4-Dichlorophenol	162		11.395	11.395	(0.977)	316601	13.9077	13.91
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	79118	3.21428	3.214
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	308541	4.00000	
28 Naphthalene	128		11.704	11.712	(1.003)	273785	3.60572	3.606
29 4-Chloroaniline	127		11.835	11.835	(1.015)	297089	9.48755	9.488
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	42287	3.46254	3.463
31 4-Chloro-3-methylphenol	107		12.802	12.810	(1.097)	311928	14.5202	14.52
32 2-Methylnaphthalene	142		13.112	13.120	(1.124)	192206	3.45090	3.451
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.888)	95754	7.91771	7.918

Compounds	QUANT		SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	193918	14.5221	14.52	
35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	207411	13.4582	13.46	
§ 36 2-Fluorobiphenyl	172	13.893	13.901	(0.908)	227551	4.23033	4.230	
37 2-Chloronaphthalene	162	14.110	14.118	(0.922)	166698	3.64285	3.643	
38 2-Nitroaniline	65	14.366	14.373	(0.939)	206899	17.1976	17.20	
39 Dimethylphthalate	163	14.799	14.799	(0.967)	192897	4.27540	4.275	
40 Acenaphthylene	152	14.993	14.993	(0.980)	268365	3.84618	3.846	
41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	162058	15.9159	15.92	
* 42 Acenaphthene-d10	164	15.302	15.310	(1.000)	159985	4.00000		
43 3-Nitroaniline	138	15.225	15.225	(0.995)	164249	13.2720	13.27	
44 Acenaphthene	153	15.371	15.371	(1.005)	169509	3.91688	3.917	
45 2,4-Dinitrophenol	184	15.433	15.441	(1.009)	101273	11.4120	11.41	
46 Dibenzofuran	168	15.696	15.704	(1.026)	240619	3.70767	3.708	
47 4-Nitrophenol	109	15.549	15.557	(1.016)	80653	13.2061	13.21	
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	212933	15.2420	15.24	
50 Diethylphthalate	149	16.260	16.268	(1.063)	318439	5.19264	5.193	
49 Fluorene	166	16.415	16.423	(1.073)	309088	4.47701	4.477	
51 4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	144038	4.26148	4.261	
52 4-Nitroaniline	138	16.500	16.500	(1.078)	199474	12.9836	12.98	
53 4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	231010	20.1759	20.18	
54 N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	176651	3.94950	3.950	
§ 55 2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	48491	6.25815	6.258	
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	68276	4.03128	4.031	
57 Hexachlorobenzene	284	17.734	17.734	(0.966)	68141	3.66625	3.666	
58 Pentachlorophenol	266	18.090	18.090	(0.986)	65138	7.78075	7.781	
* 59 Phenanthrene-d10	188	18.353	18.361	(1.000)	260655	4.00000		
60 Phenanthrene	178	18.400	18.408	(1.003)	260536	3.83364	3.834	
61 Anthracene	178	18.493	18.500	(1.008)	222353	3.42723	3.427	
62 Carbazole	167	18.825	18.825	(1.026)	230213	3.67050	3.671	
63 Di-n-butylphthalate	149	19.607	19.614	(1.068)	332282	4.52369	4.524	
64 Fluoranthene	202	20.783	20.791	(0.888)	288289	4.20434	4.204	
65 Pyrene	202	21.208	21.216	(0.906)	299385	4.15266	4.153	
§ 66 Terphenyl-d14	244	21.487	21.495	(0.918)	232662	4.55132	4.551	
67 Butylbenzylphthalate	149	22.400	22.408	(0.957)	135802	4.90812	4.908	
68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	271163	4.20333	4.203	
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	212958	4.00000		
70 3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	261298	13.2313	13.23	
71 Chrysene	228	23.446	23.446	(1.002)	256620	4.21127	4.211	
72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	193603	4.88604	4.886	
* 134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	356784	4.00000		
73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	355767	4.15405	4.154	
74 Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	261205	4.53135	4.531	
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	264146	4.50223	4.502	
76 Benzo(a)pyrene	252	25.962	25.970	(0.996)	199808	4.16967	4.170	
* 77 Perylene-d12	264	26.078	26.086	(1.000)	183421	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	132823	2.43830	2.438	
79 Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	120093	2.59434	2.594	
80 Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	88140	1.93146	1.931	
90 N-Nitrosodimethylamine	74	4.726	4.718	(0.516)	195106	10.4508	10.45	
91 Aniline	93	8.611	8.611	(0.940)	325235	8.77508	8.775	
93 Benzidine	184	Compound Not Detected.						
103 Pyridine	79	4.764	4.741	(0.520)	139523	2.35196	2.352	
105 1-methylnaphthalene	142	13.336	13.344	(1.143)	184644	3.45029	3.450	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	258810	4.35624	4.356	

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252		25.335	25.335	(0.971)	501210	8.99363	8.994
120 2,3,4,6-Tetrachlorophenol	232		16.036	16.044	(1.048)	32904	2.85536	2.855

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123070.D Calibration Time: 23:30
 Lab Smp Id: BKL0193-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	84612	-39.02
27 Naphthalene-d8	501723	250862	1003446	308541	-38.50
42 Acenaphthene-d10	275234	137617	550468	159985	-41.87
59 Phenanthrene-d10	440085	220043	880170	260655	-40.77
69 Chrysene-d12	384795	192398	769590	212958	-44.66
134 Di-n-octylphthala	674530	337265	1349060	356784	-47.11
77 Perylene-d12	336665	168333	673330	183421	-45.52

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123070.D

Lab ID: BKL0193-BS1
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 01:53

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
-----	-----	-----	-------	----------

NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123071.D

Date: 01-JAN-2023 02:29

Client ID:

Sample Info: BKL0193-BSD1

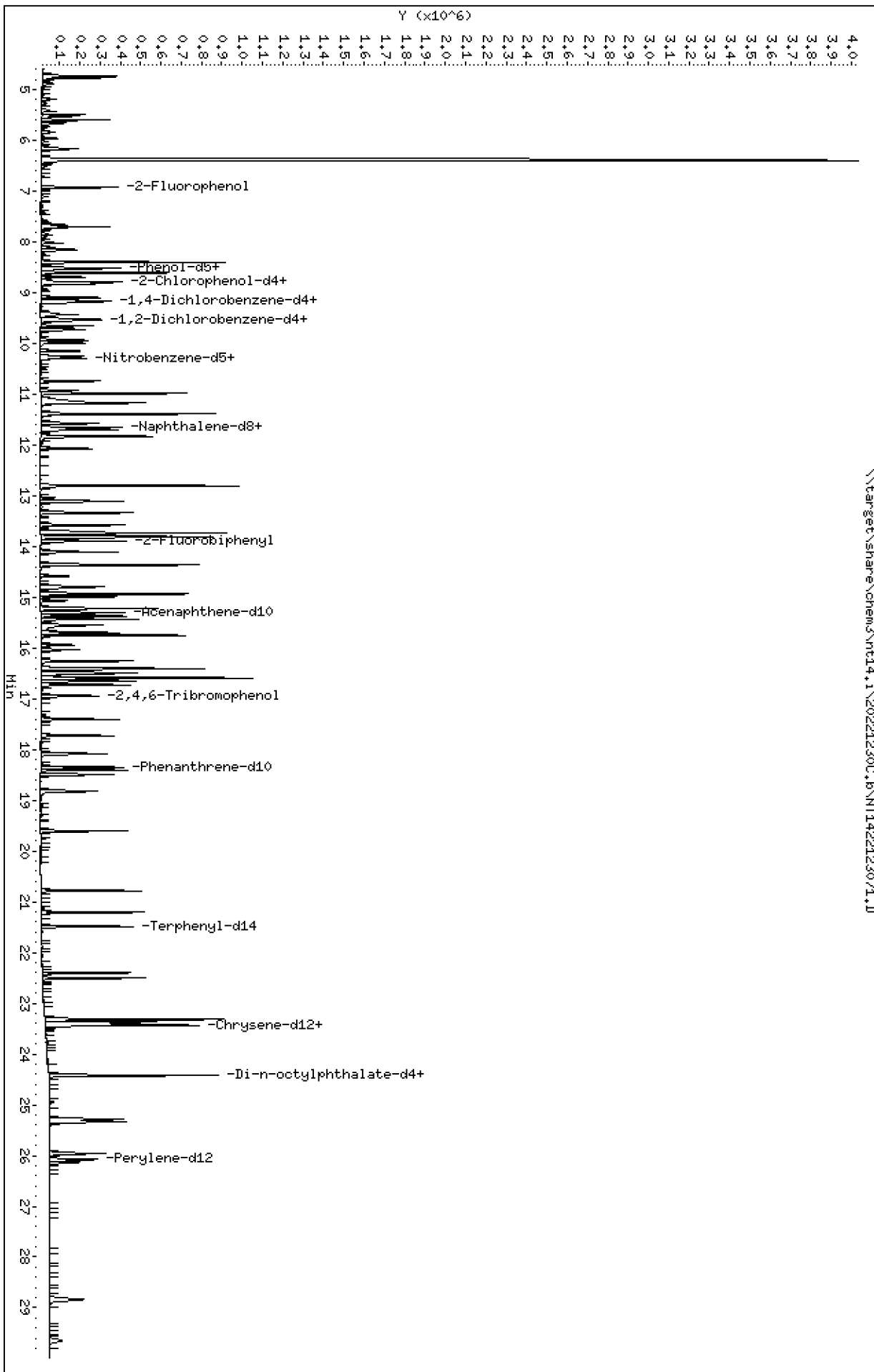
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123071.D



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

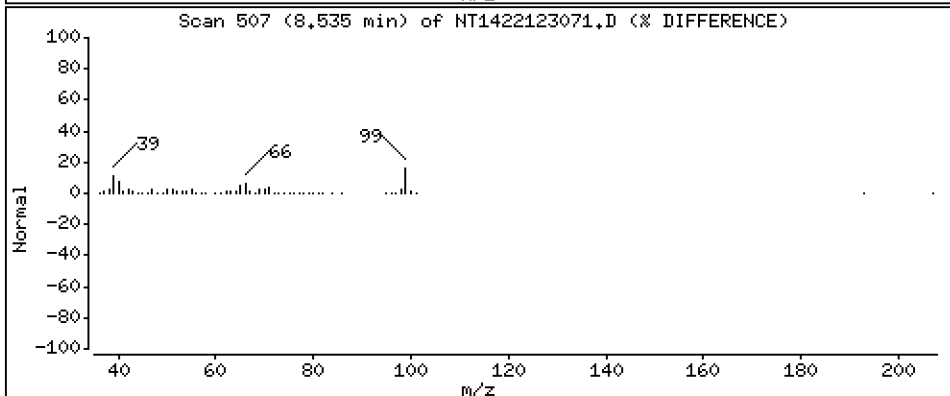
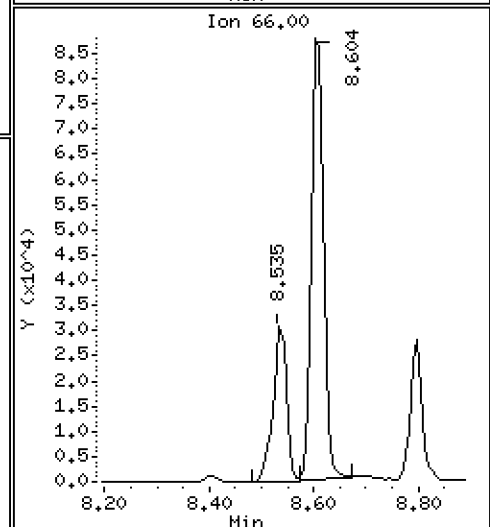
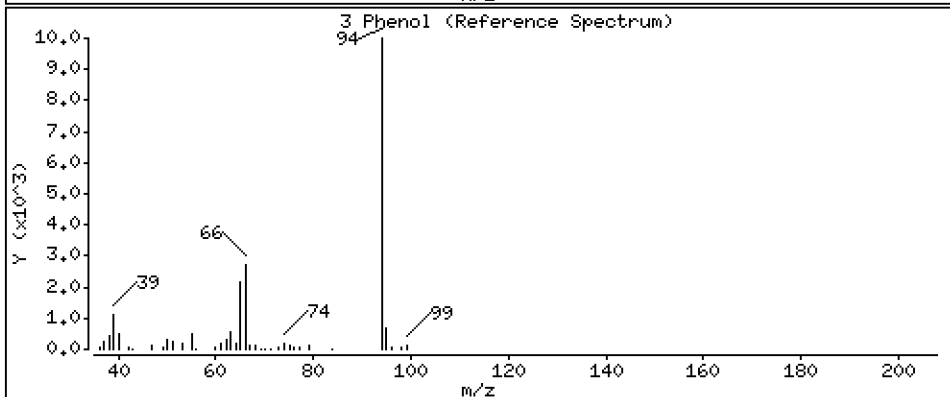
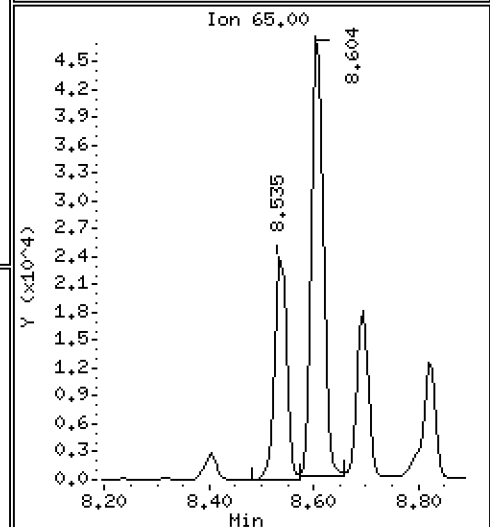
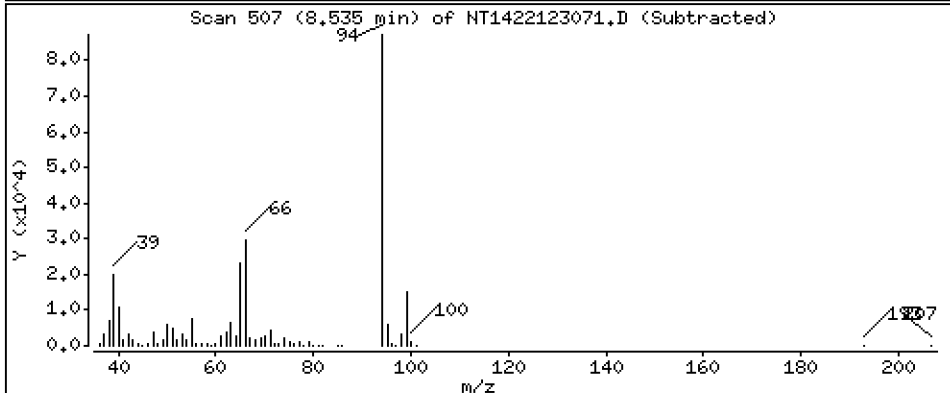
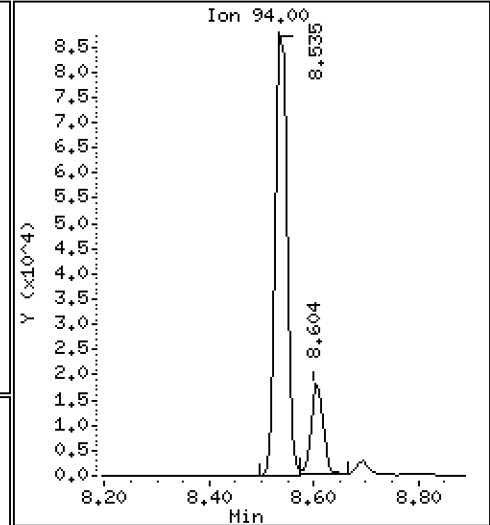
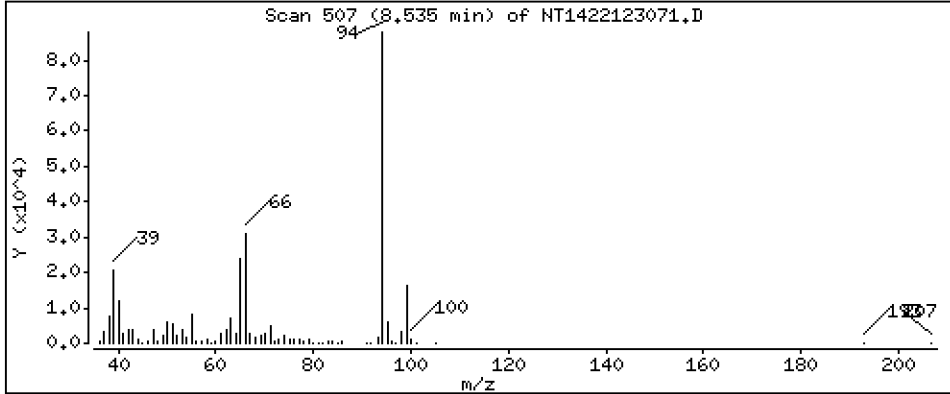
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 3,358 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

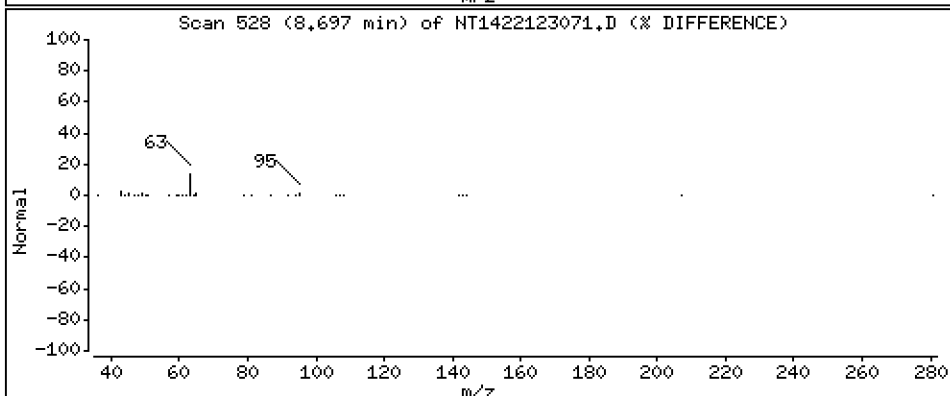
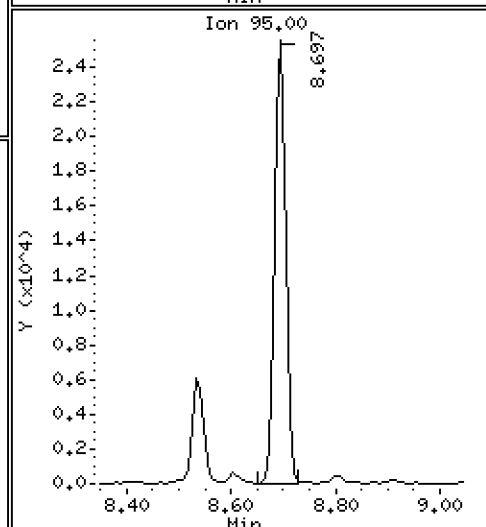
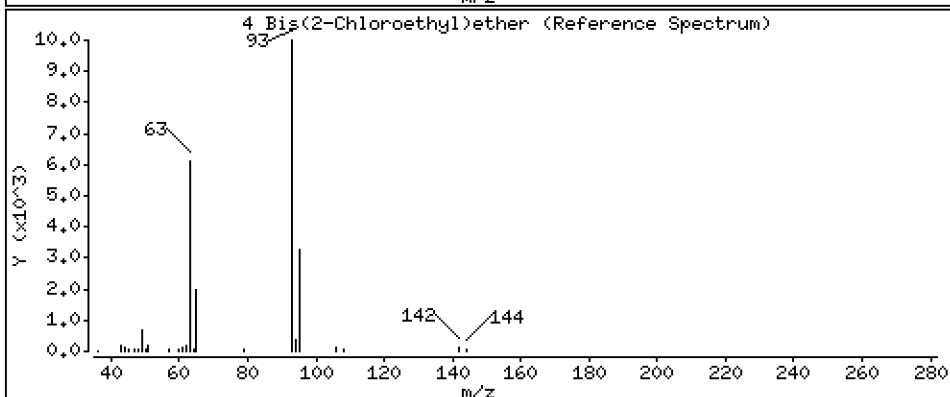
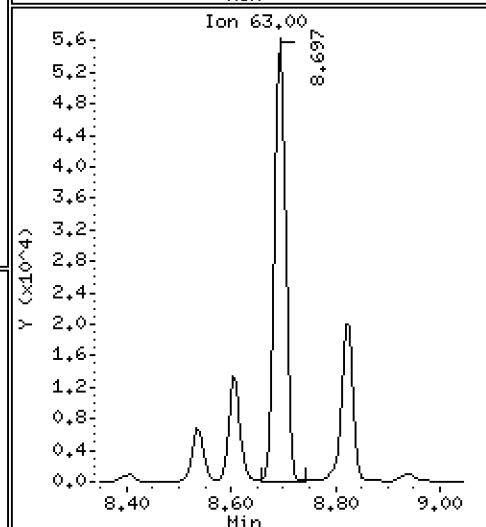
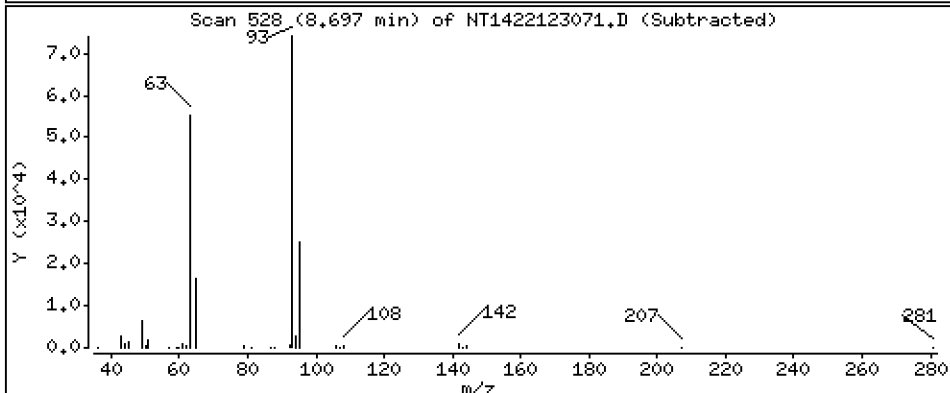
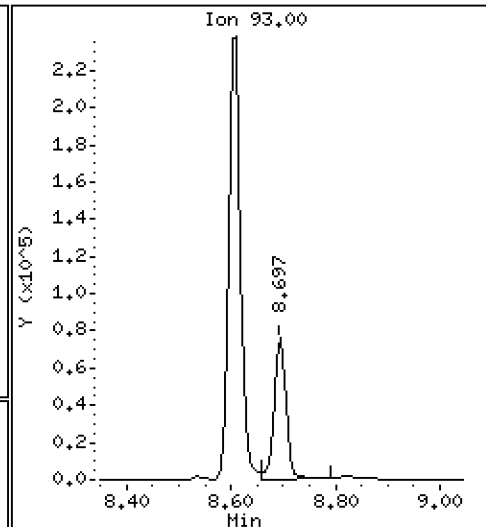
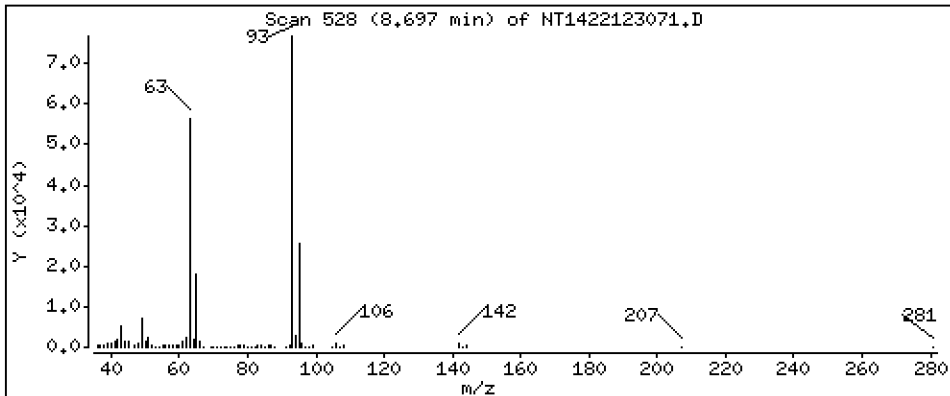
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,273 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

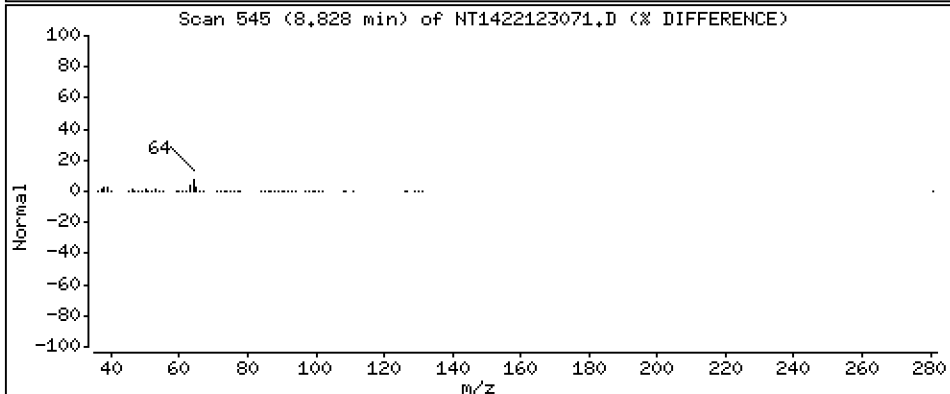
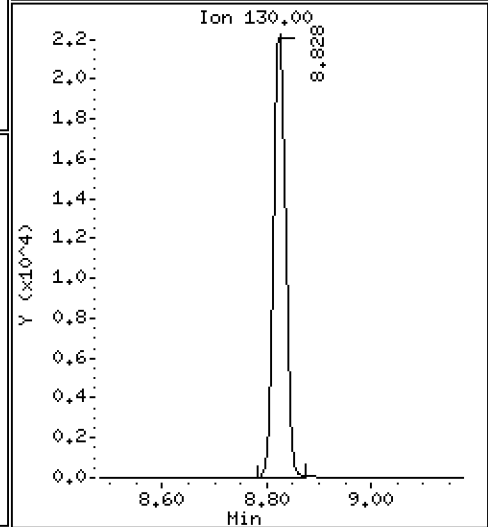
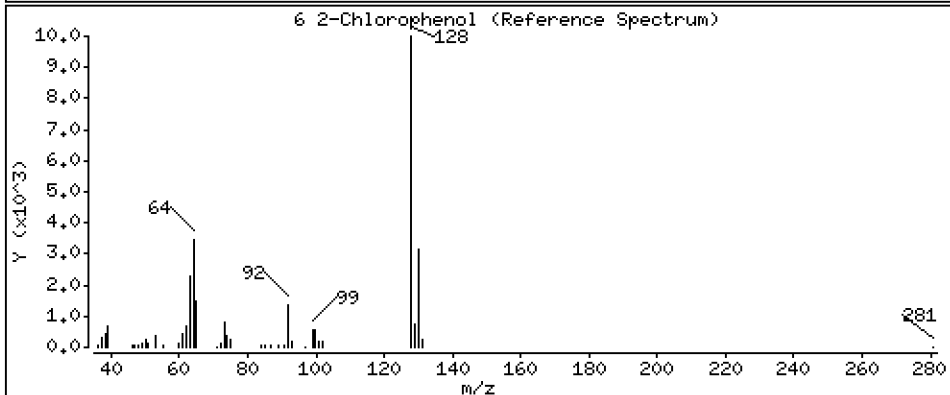
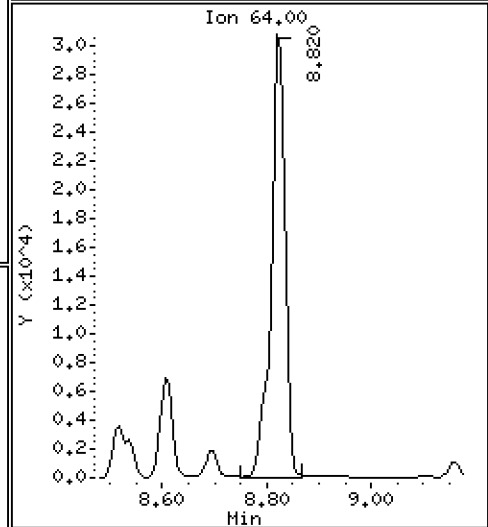
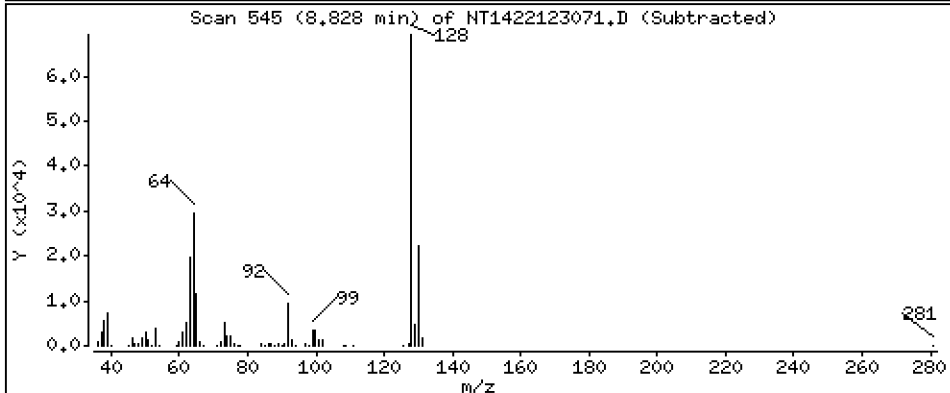
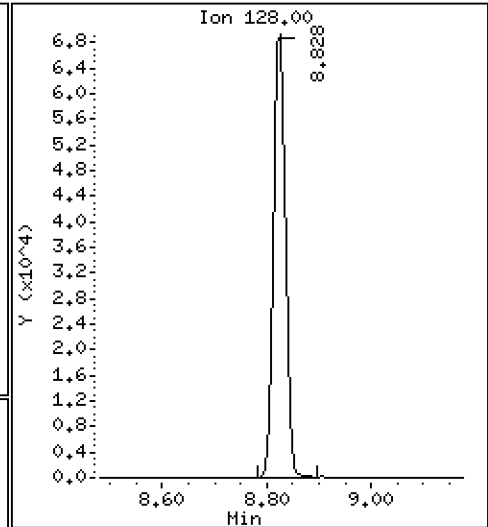
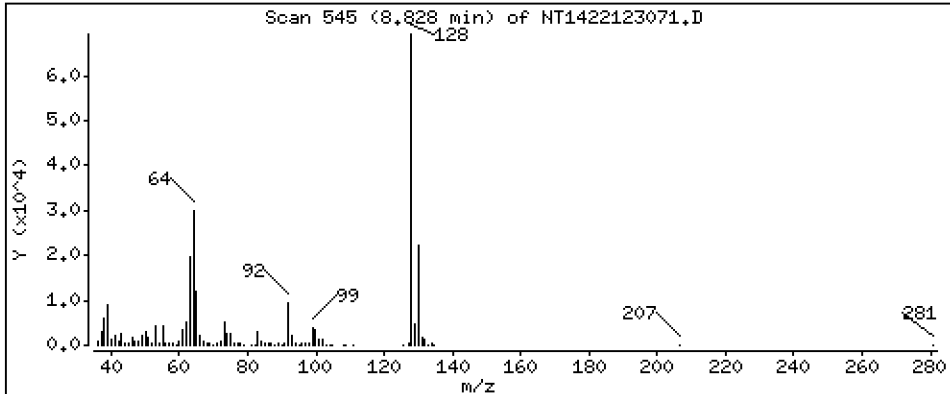
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 3,401 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

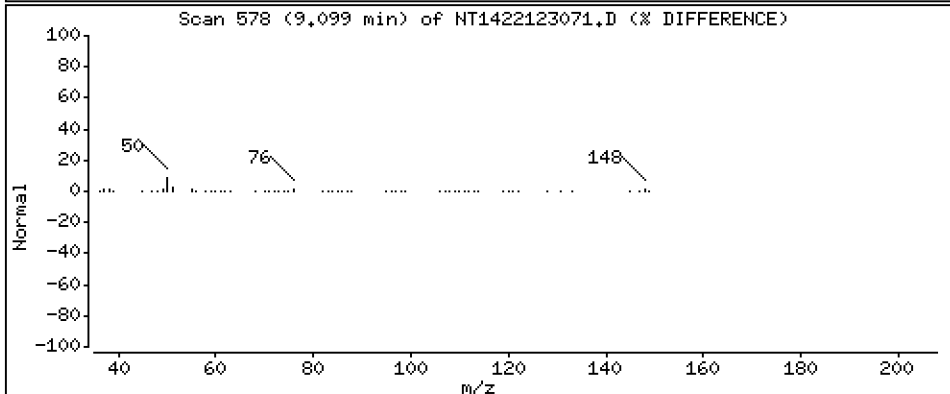
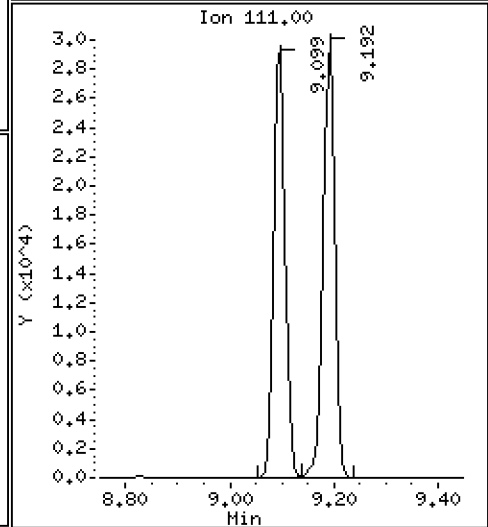
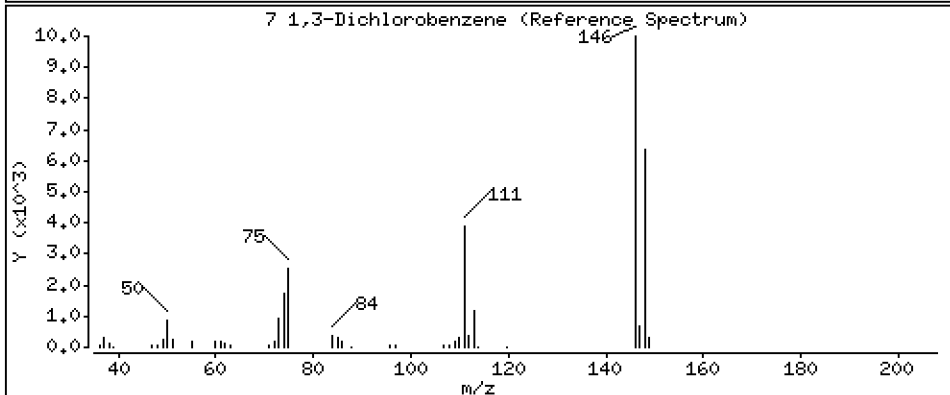
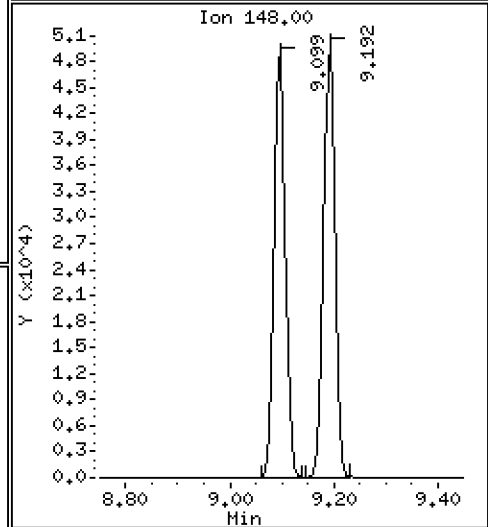
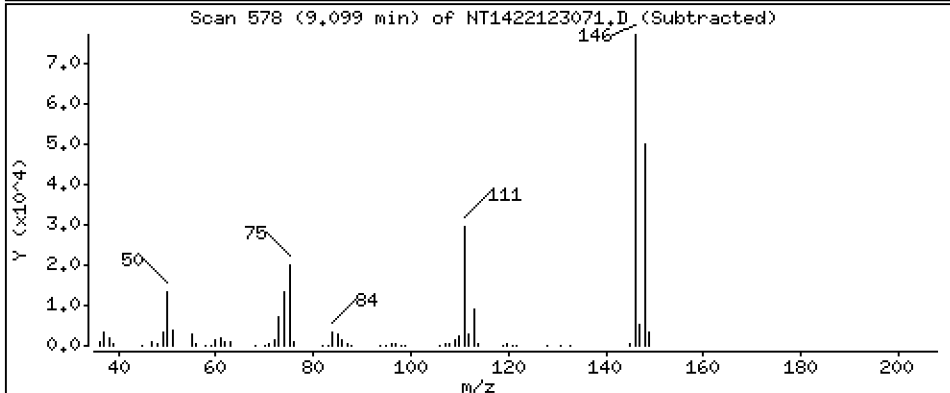
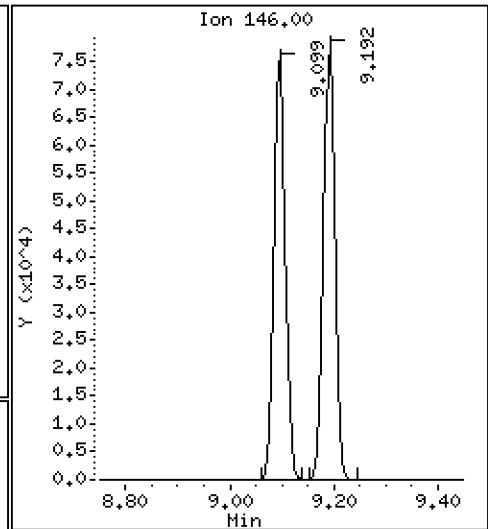
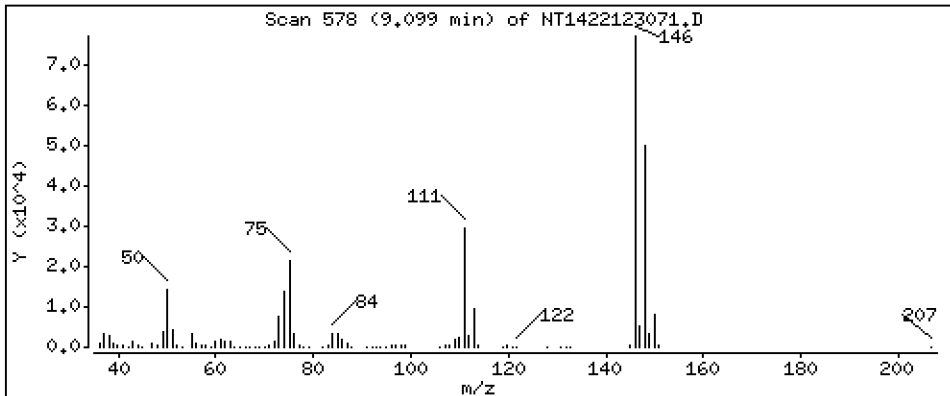
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 3,485 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

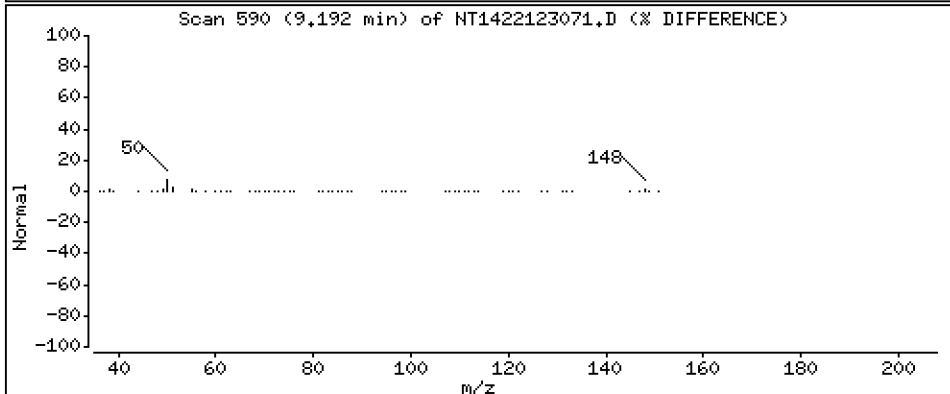
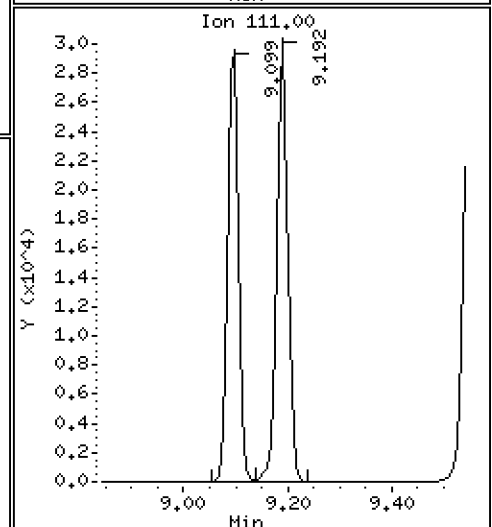
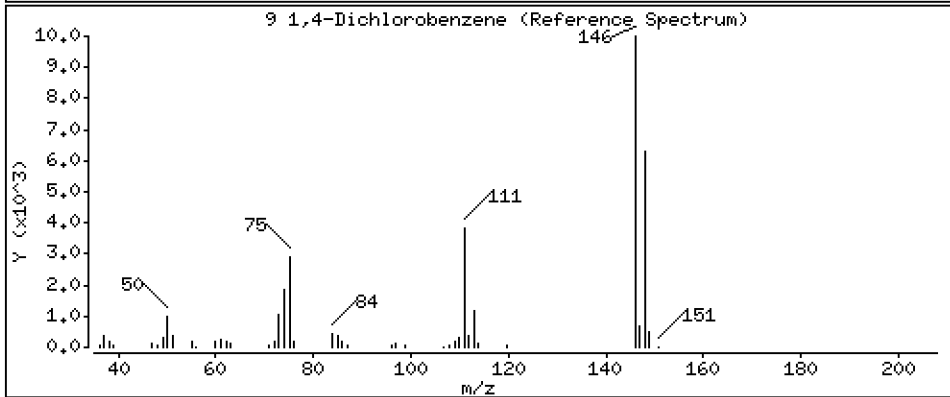
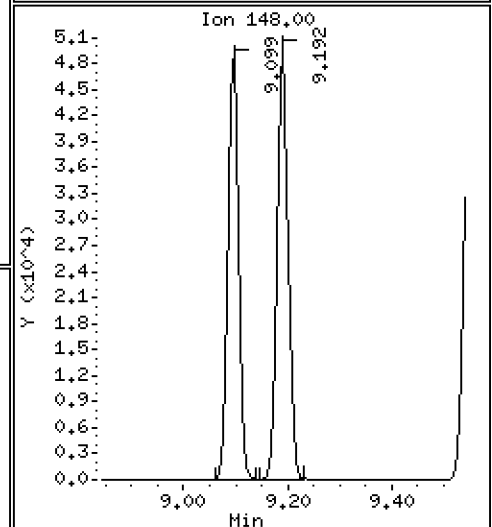
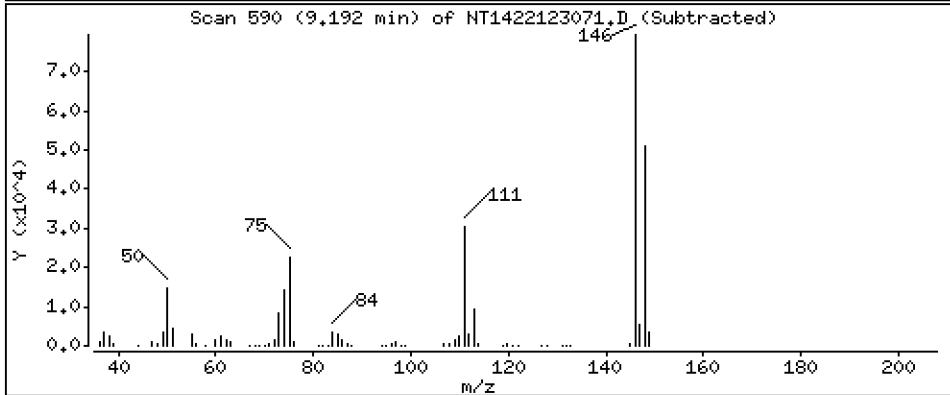
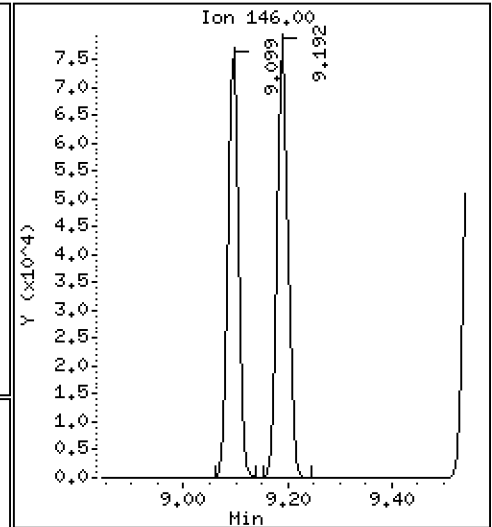
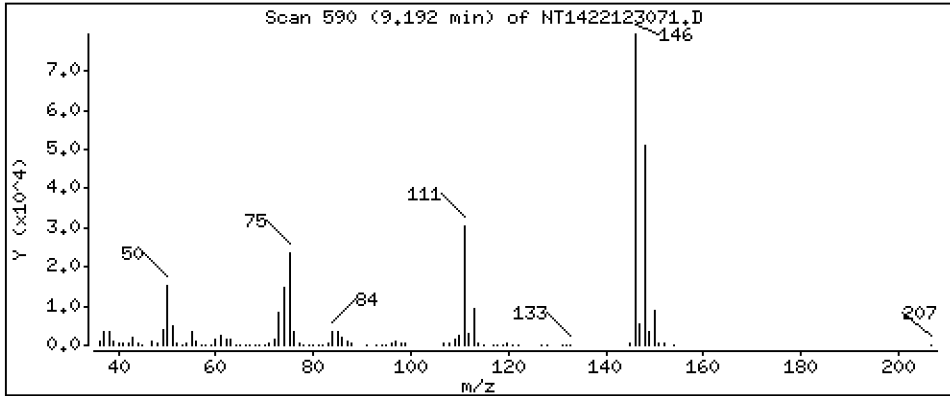
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 3,614 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

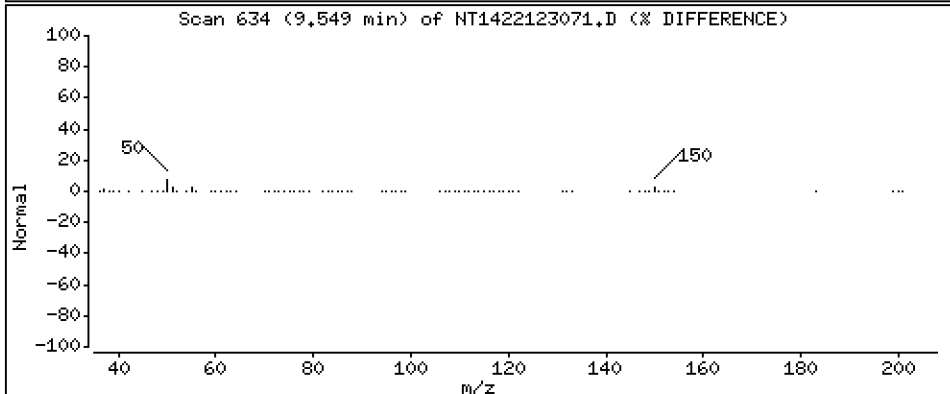
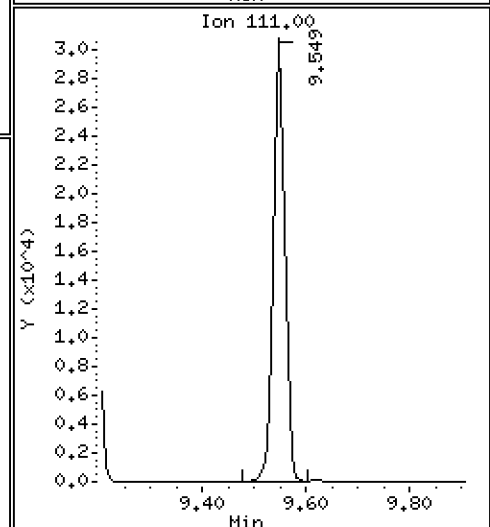
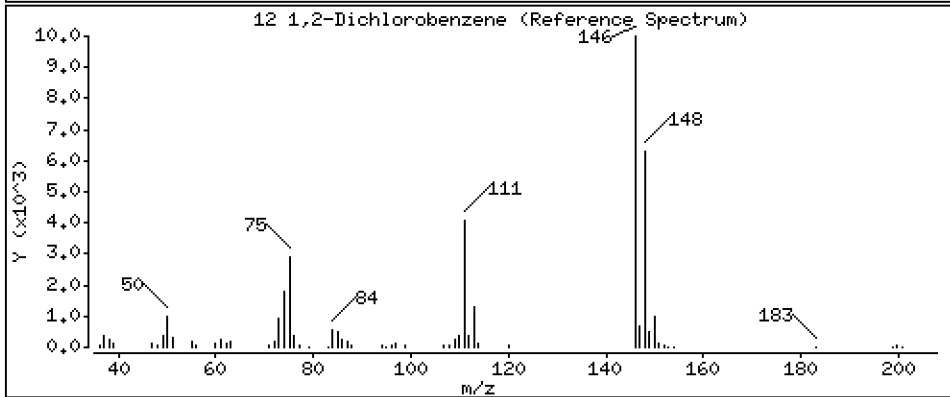
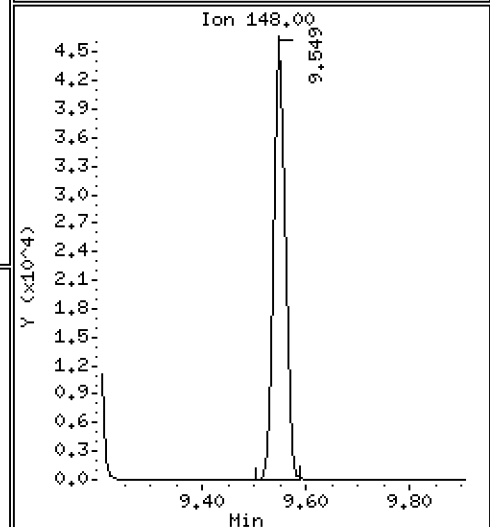
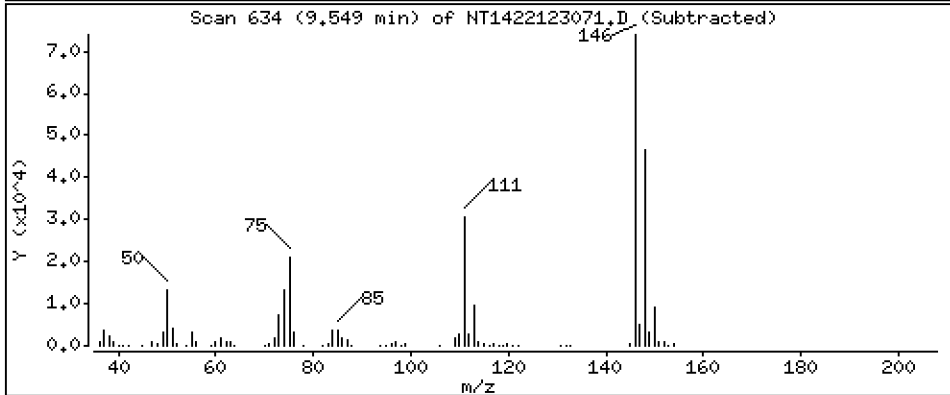
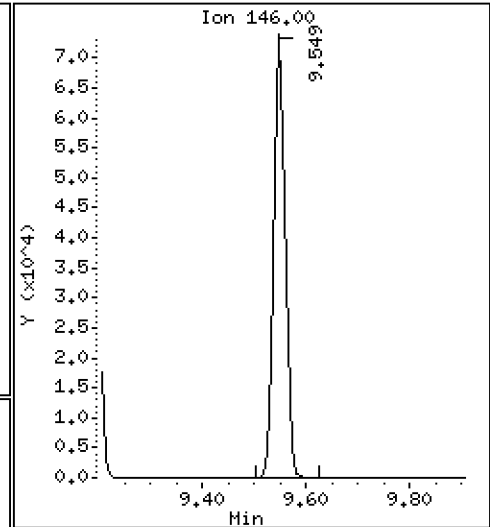
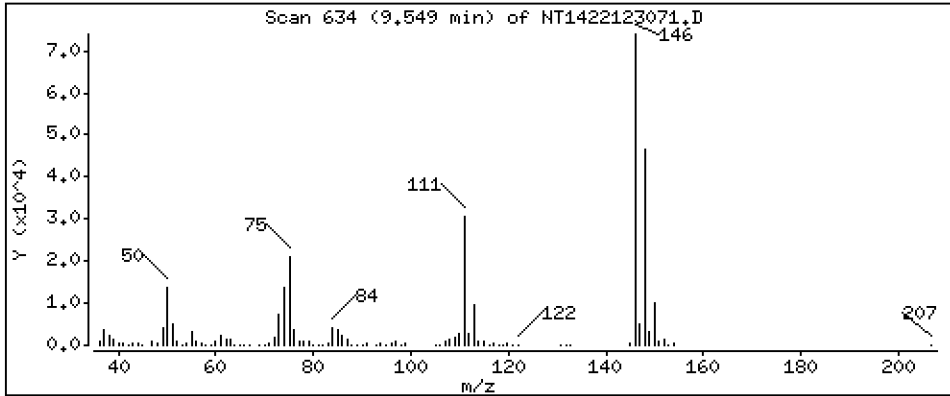
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 3,591 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

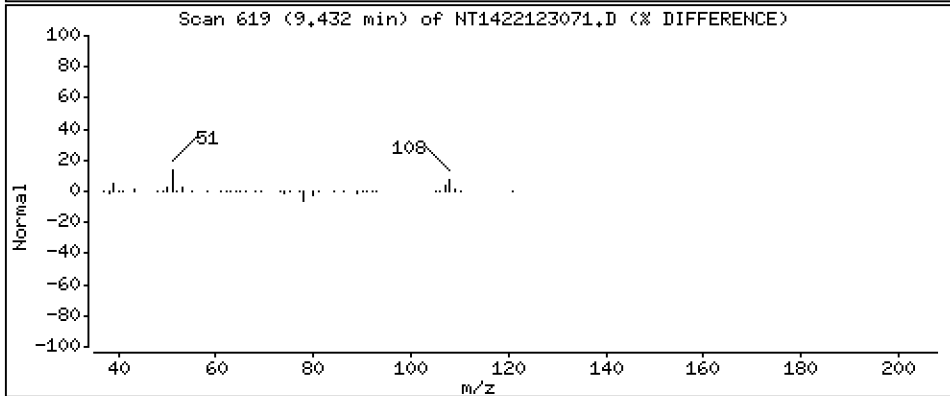
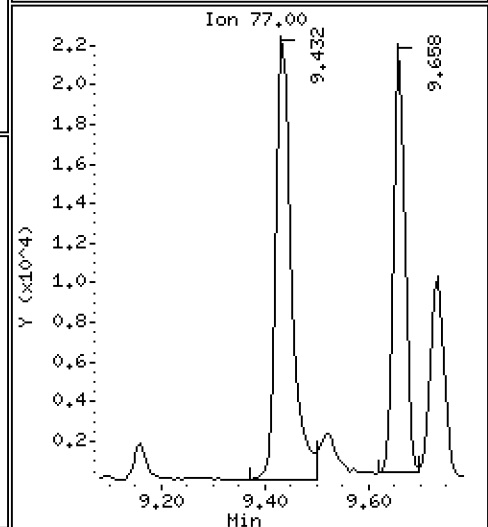
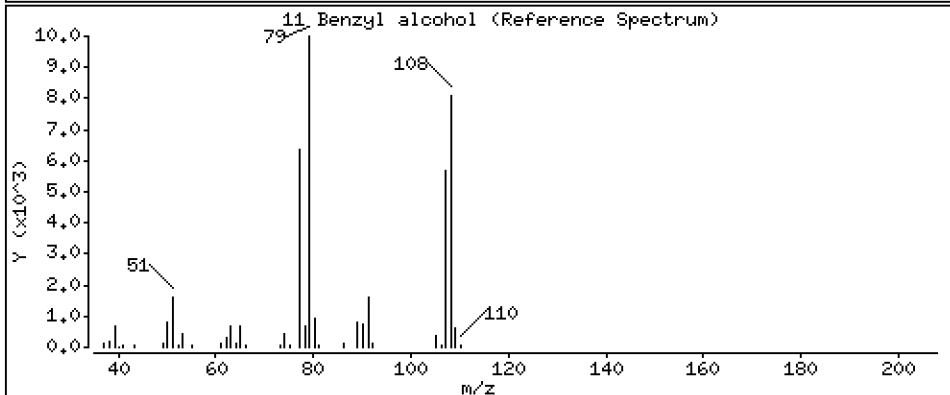
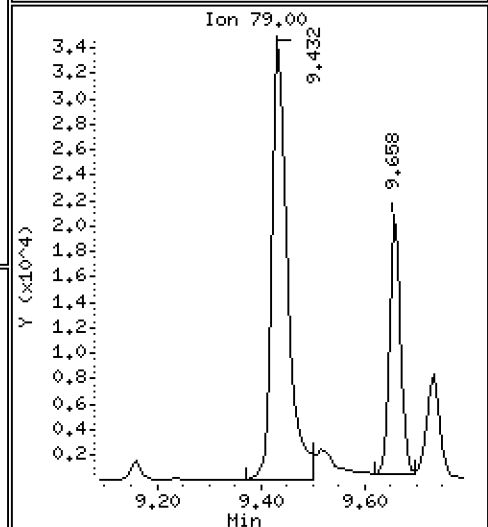
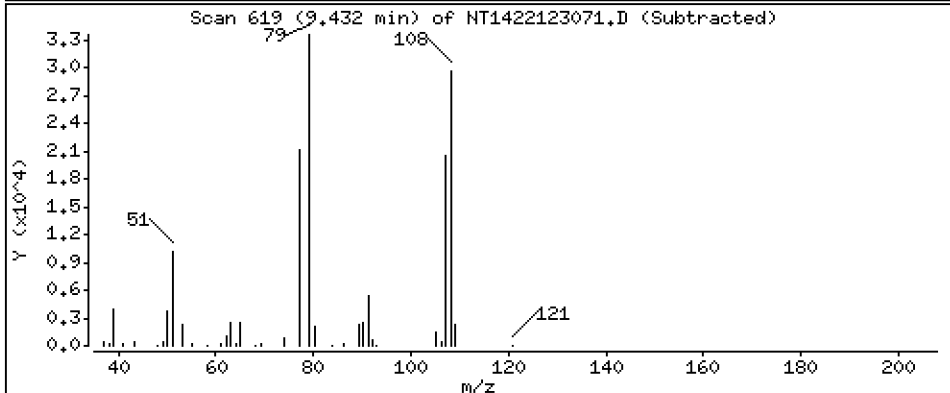
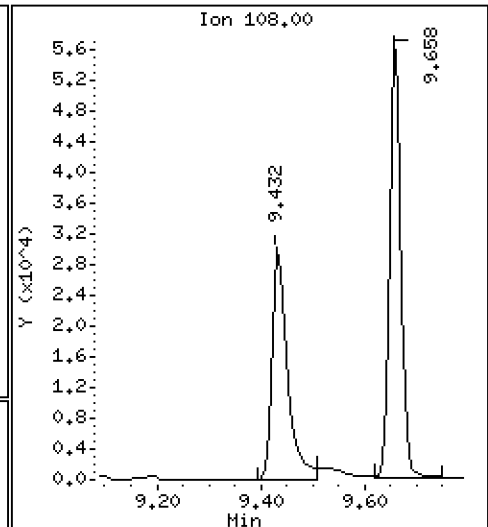
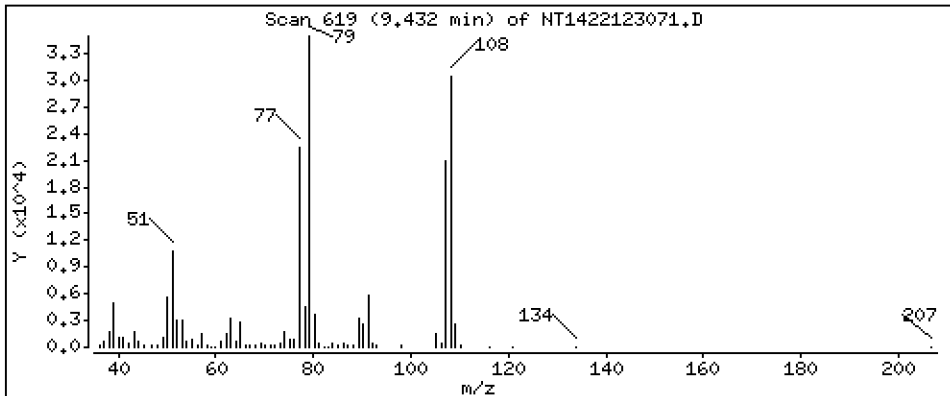
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 3.552 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

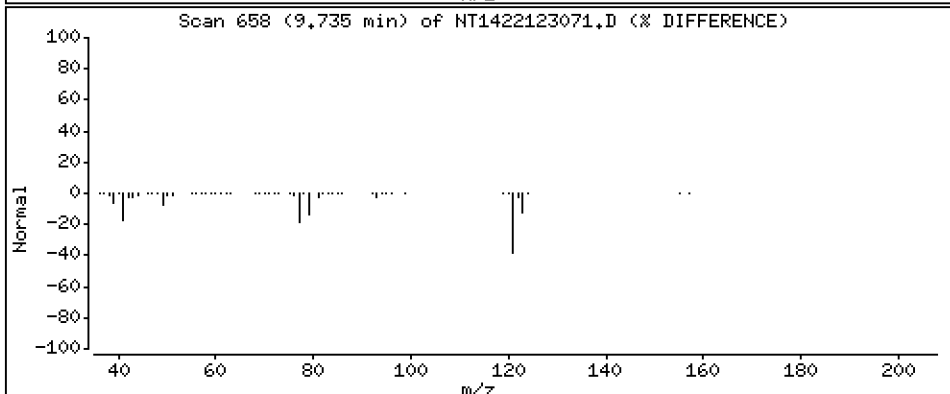
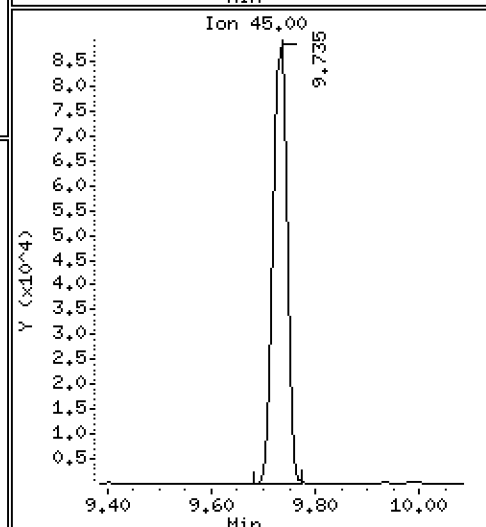
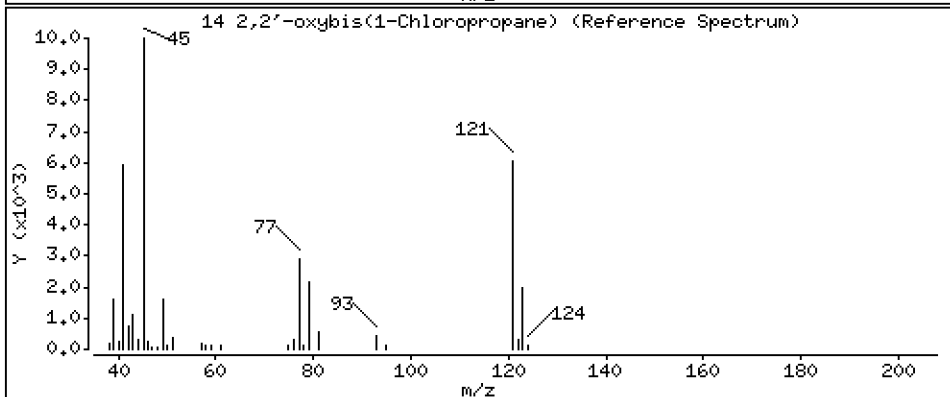
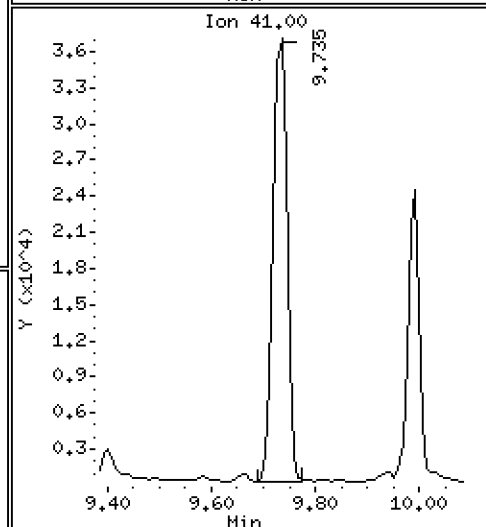
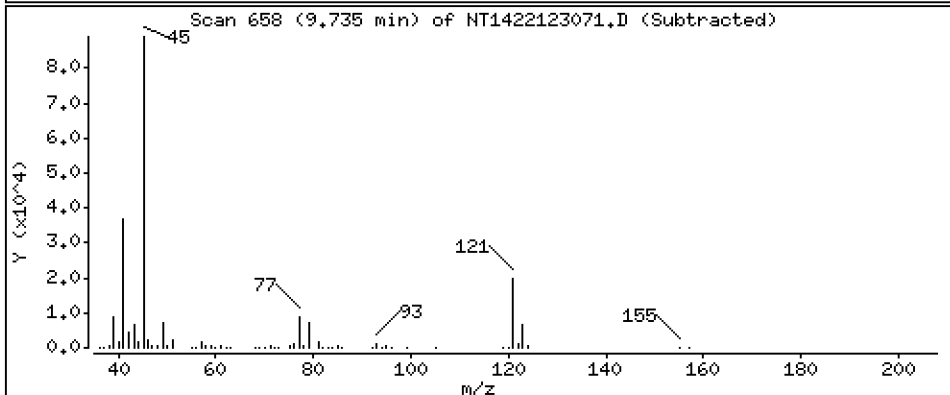
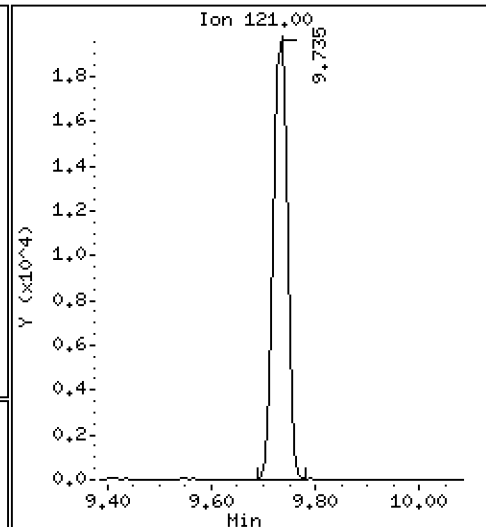
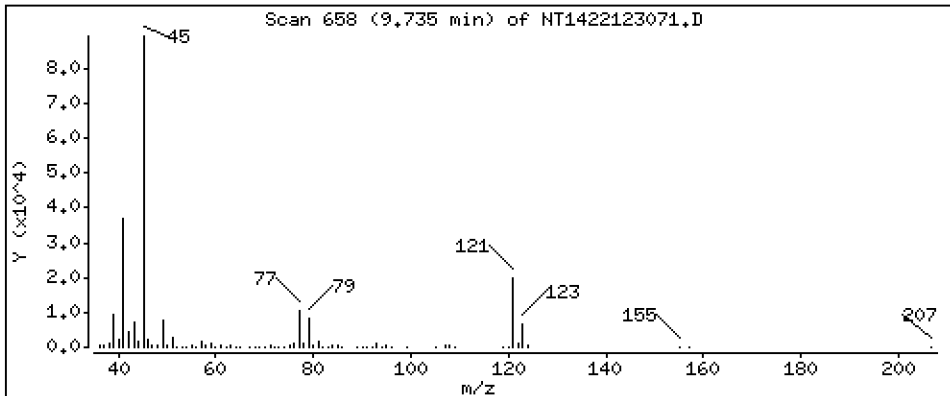
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,019 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

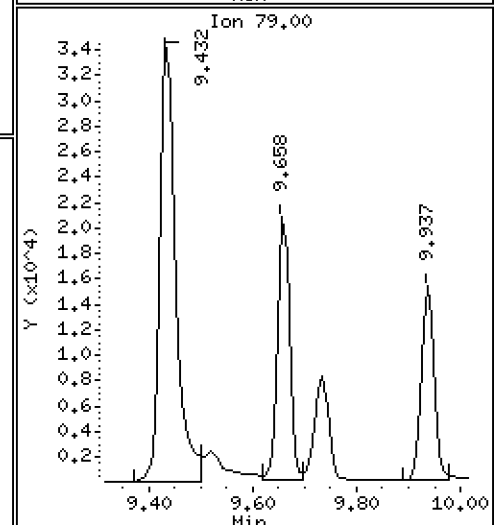
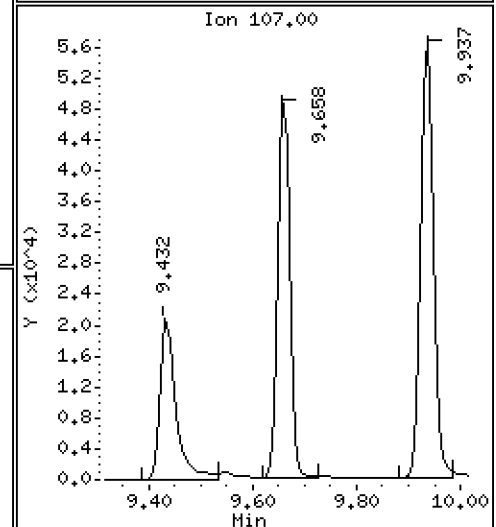
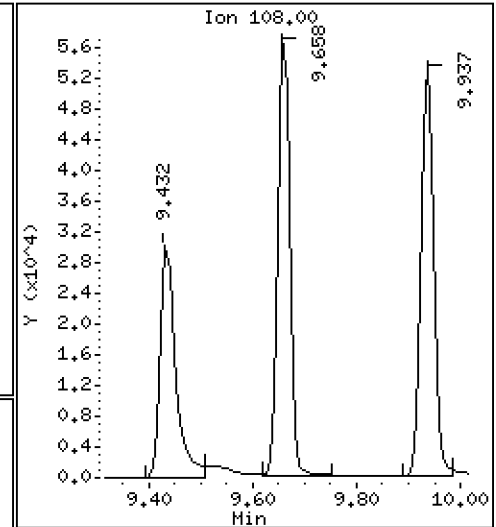
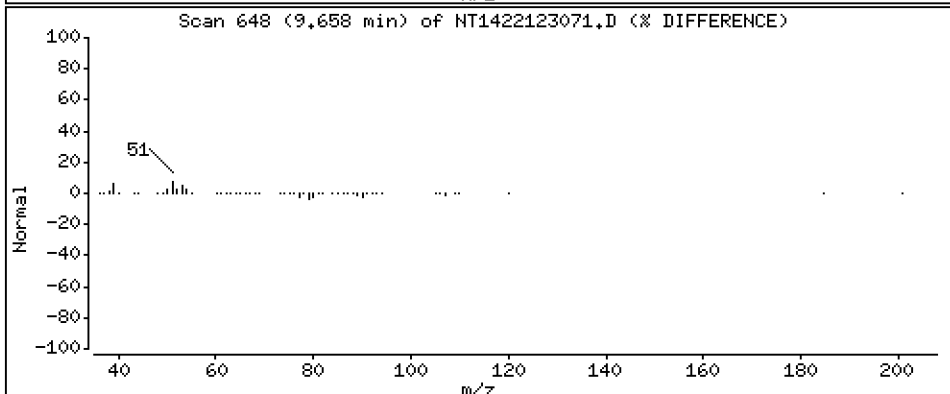
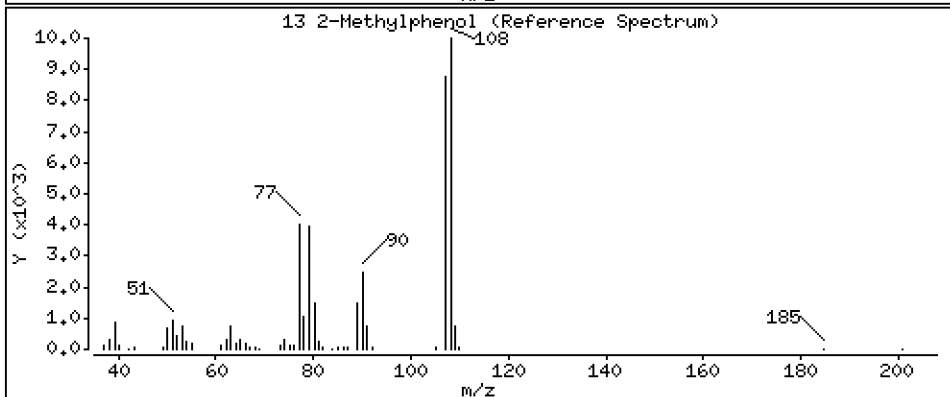
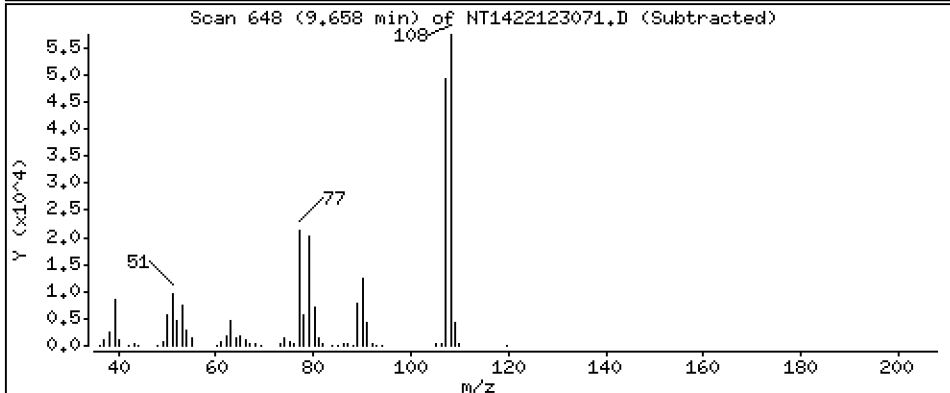
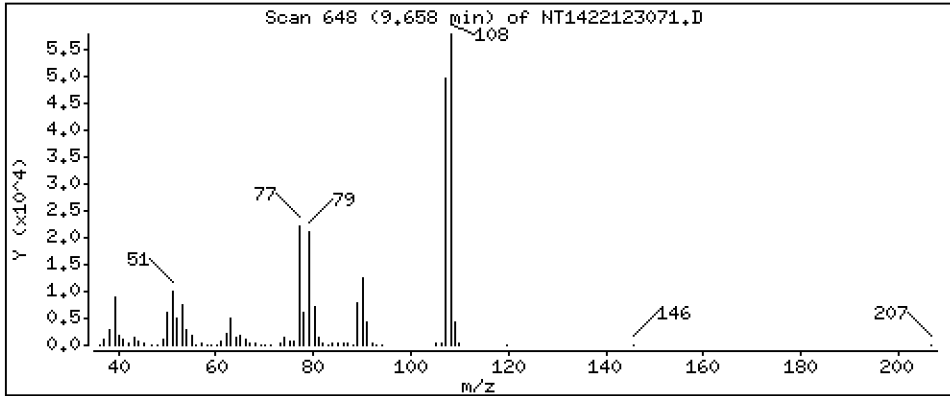
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

13 2-Methylphenol

Concentration: 3,080 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

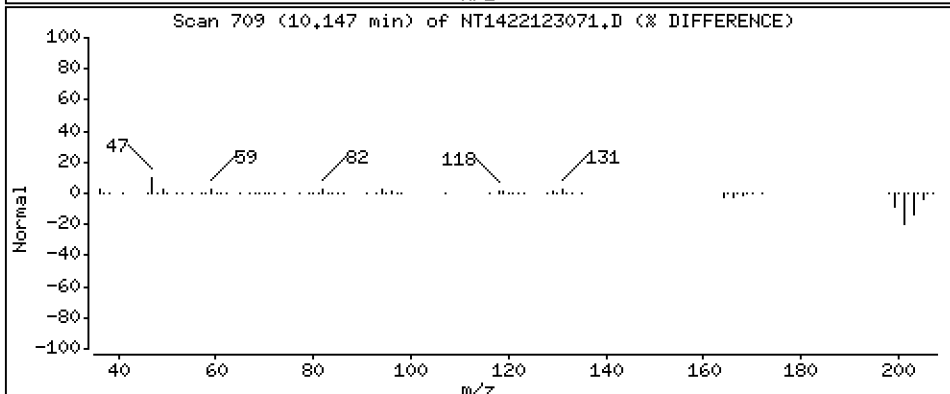
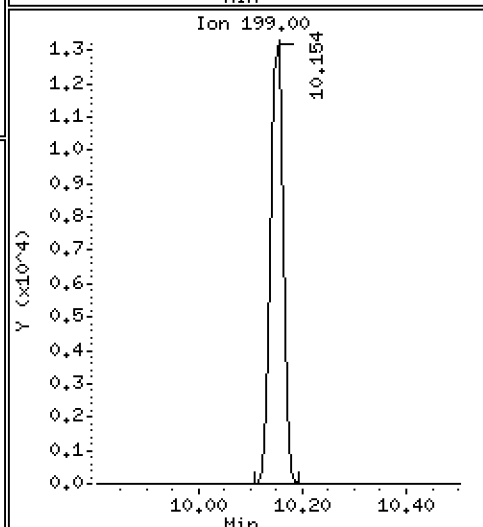
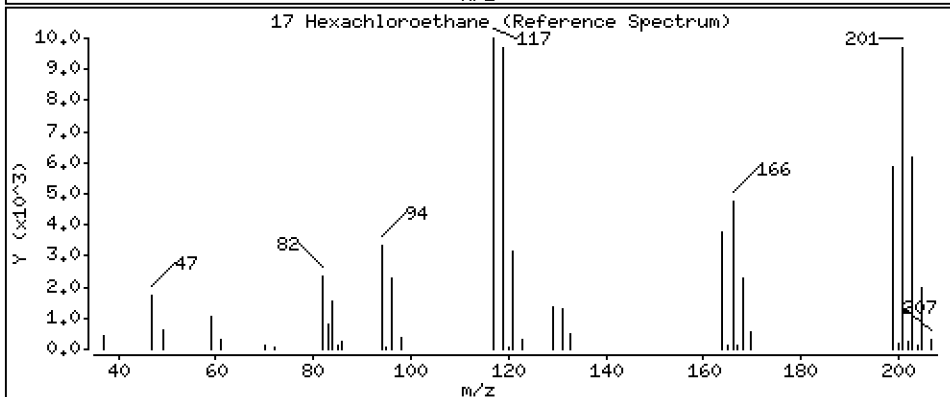
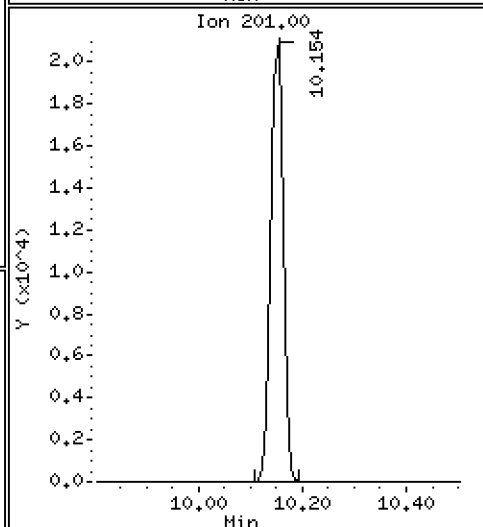
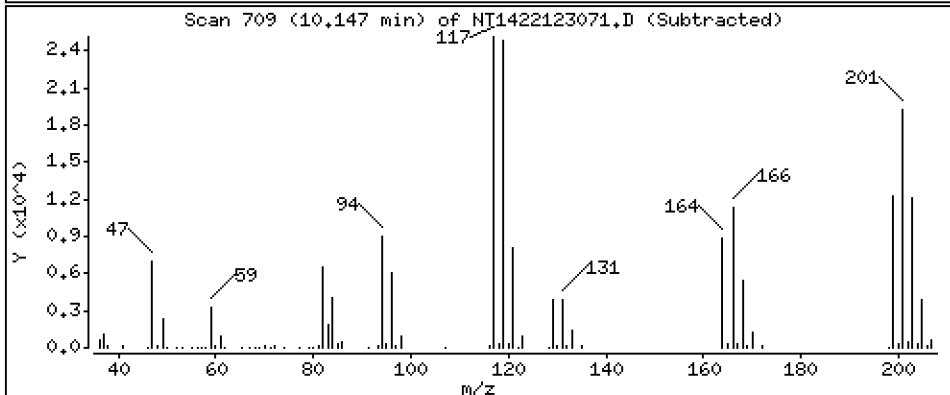
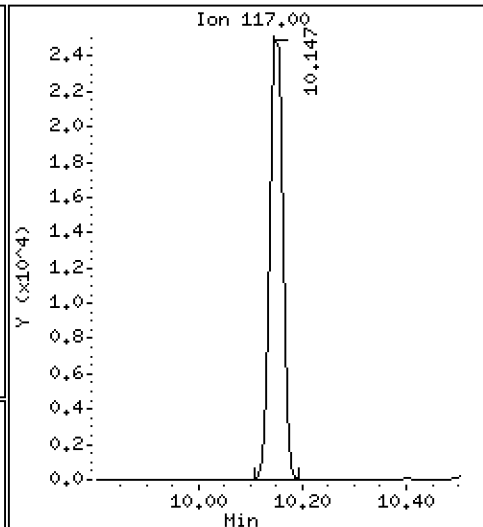
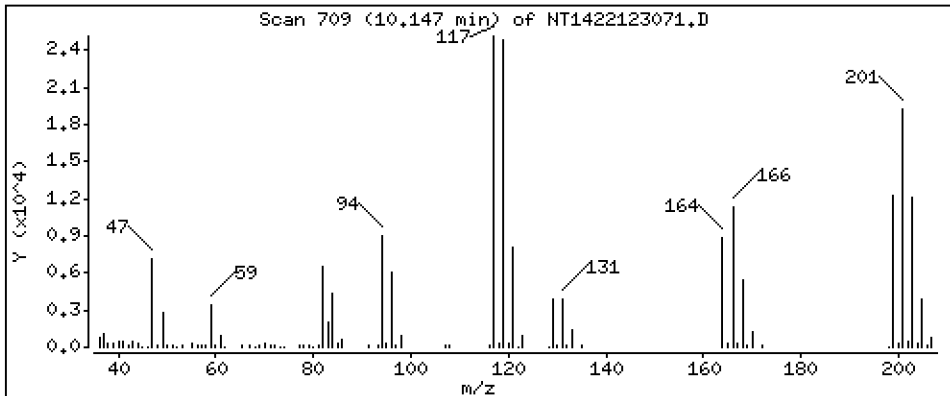
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 3,589 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

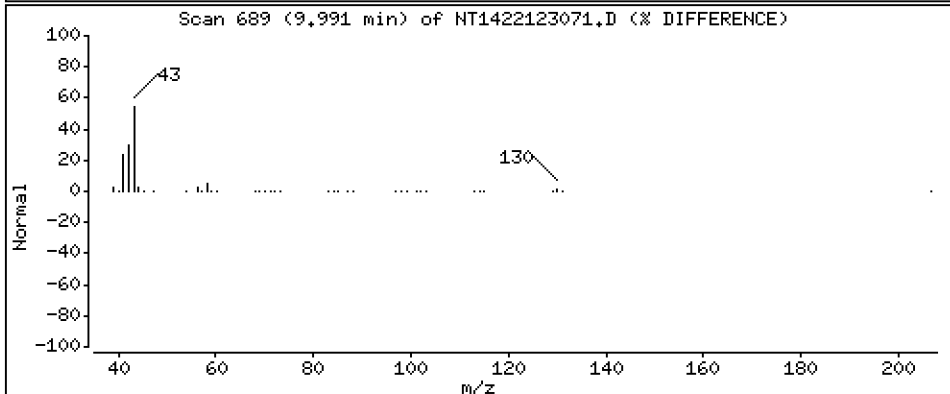
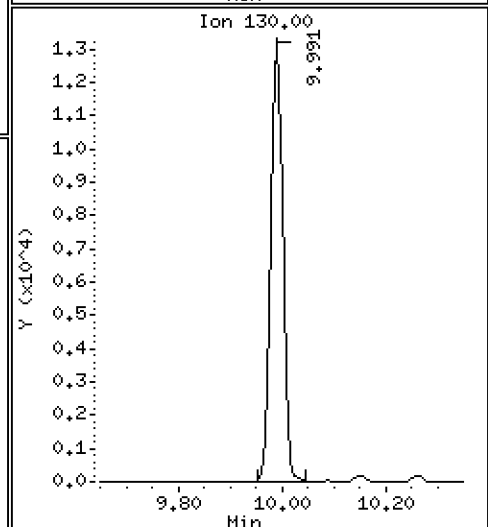
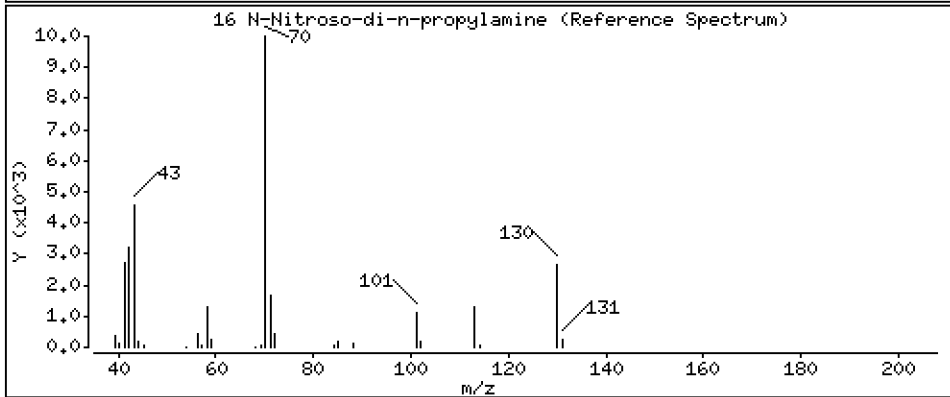
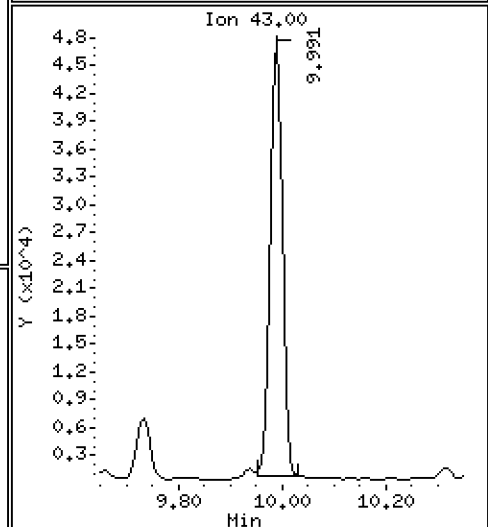
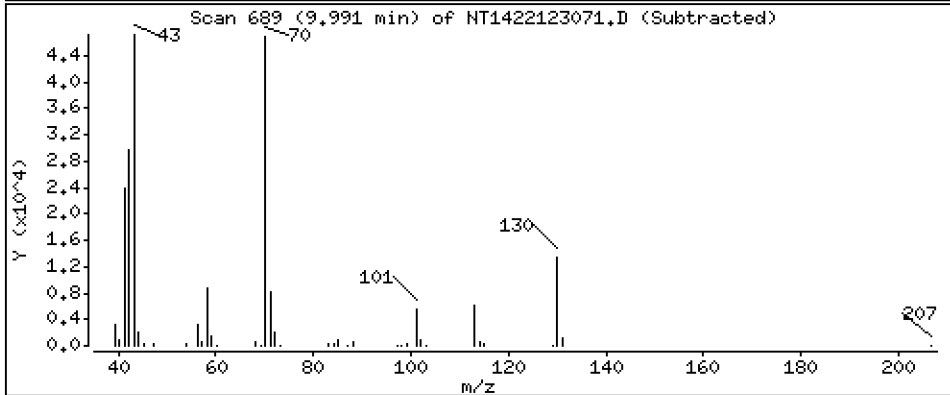
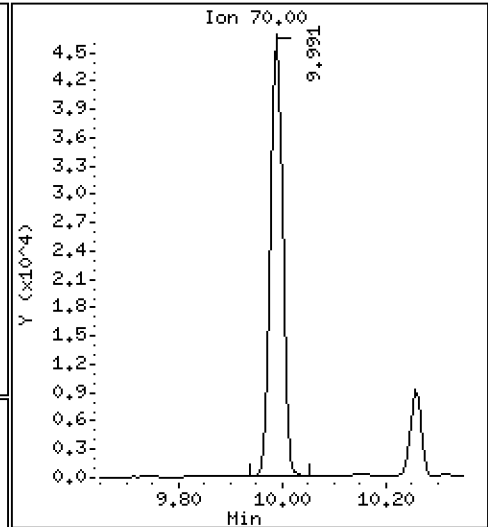
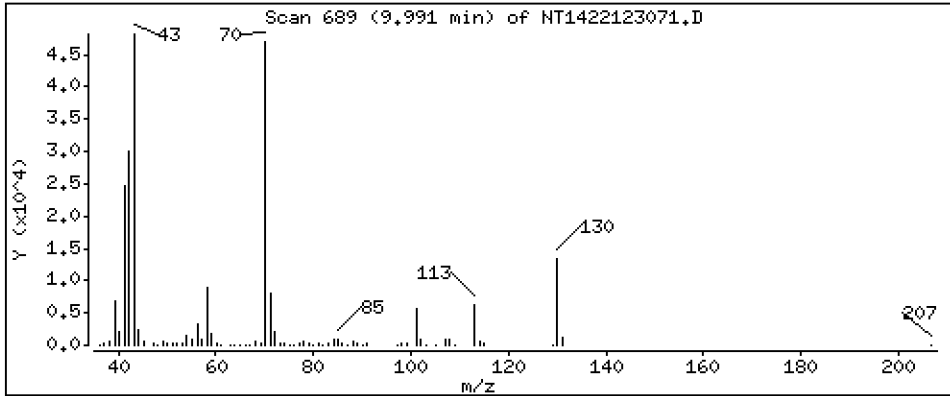
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 4,292 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

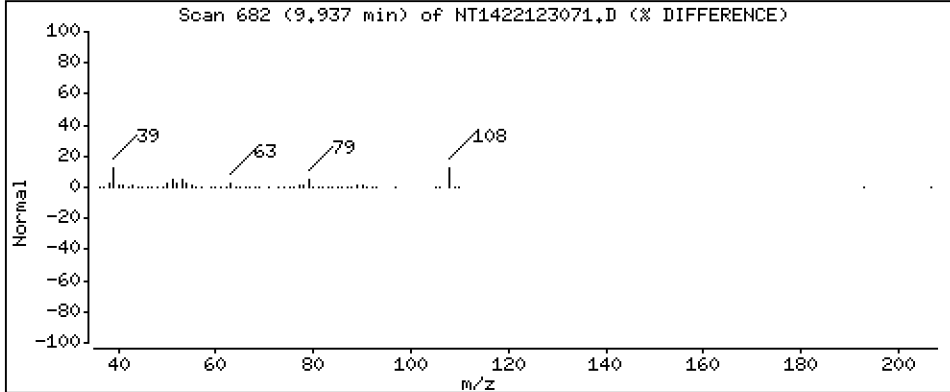
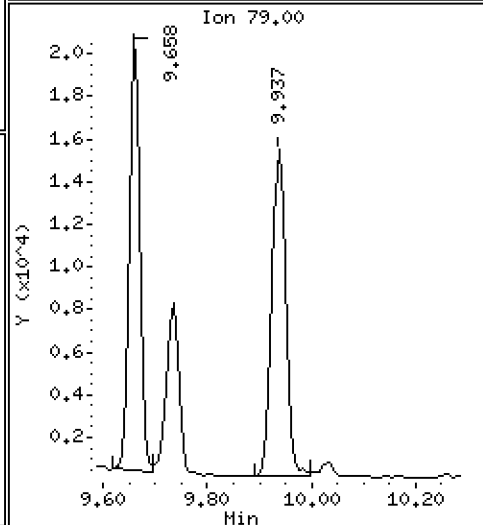
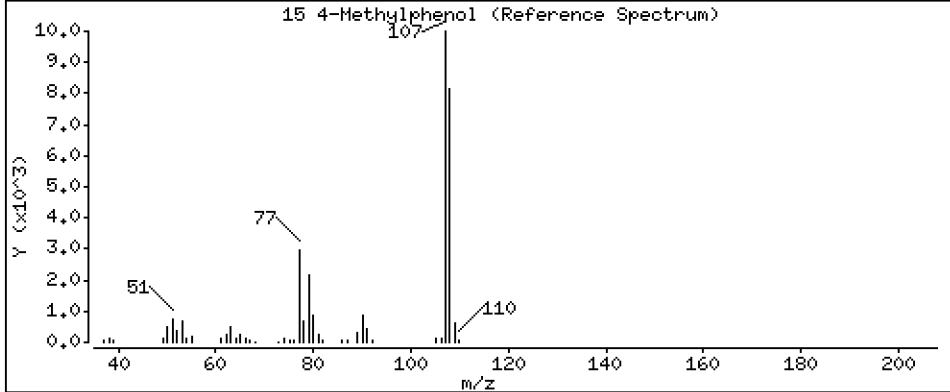
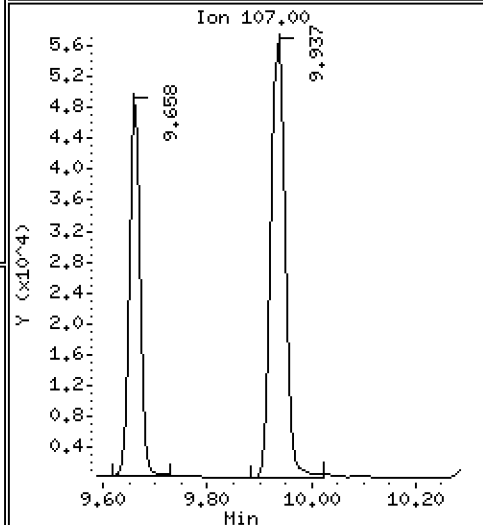
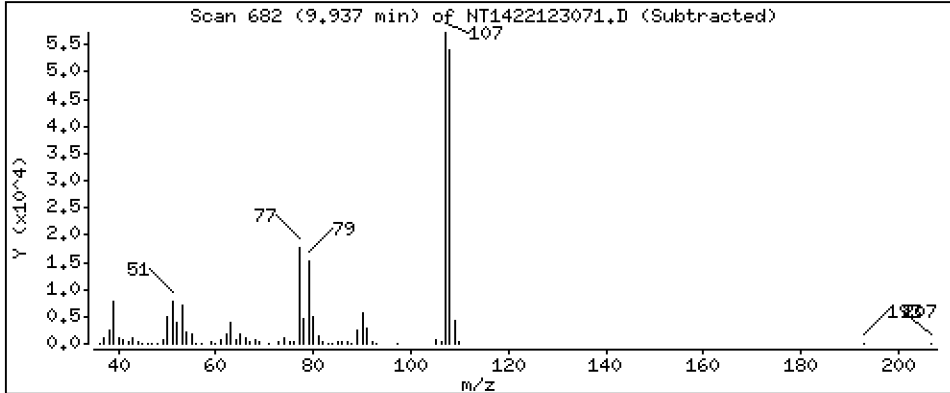
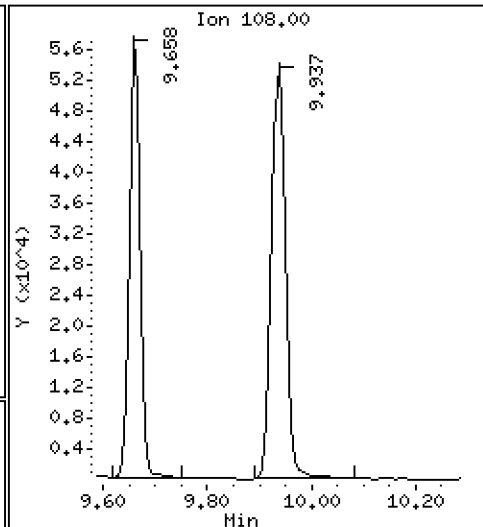
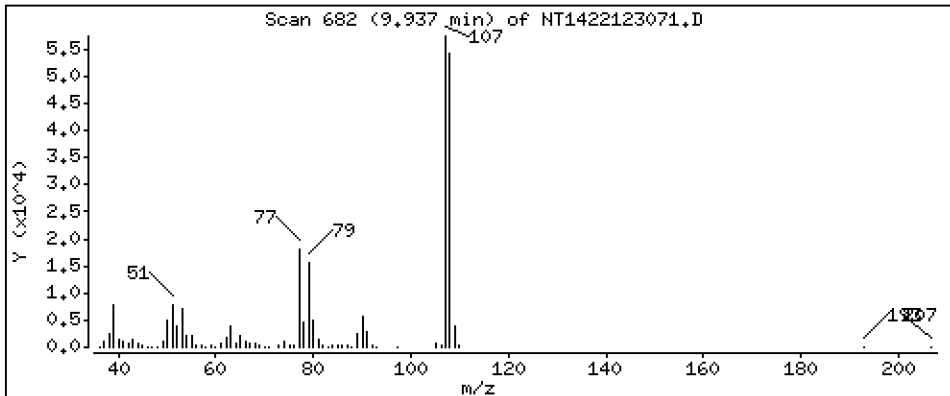
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 3,339 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

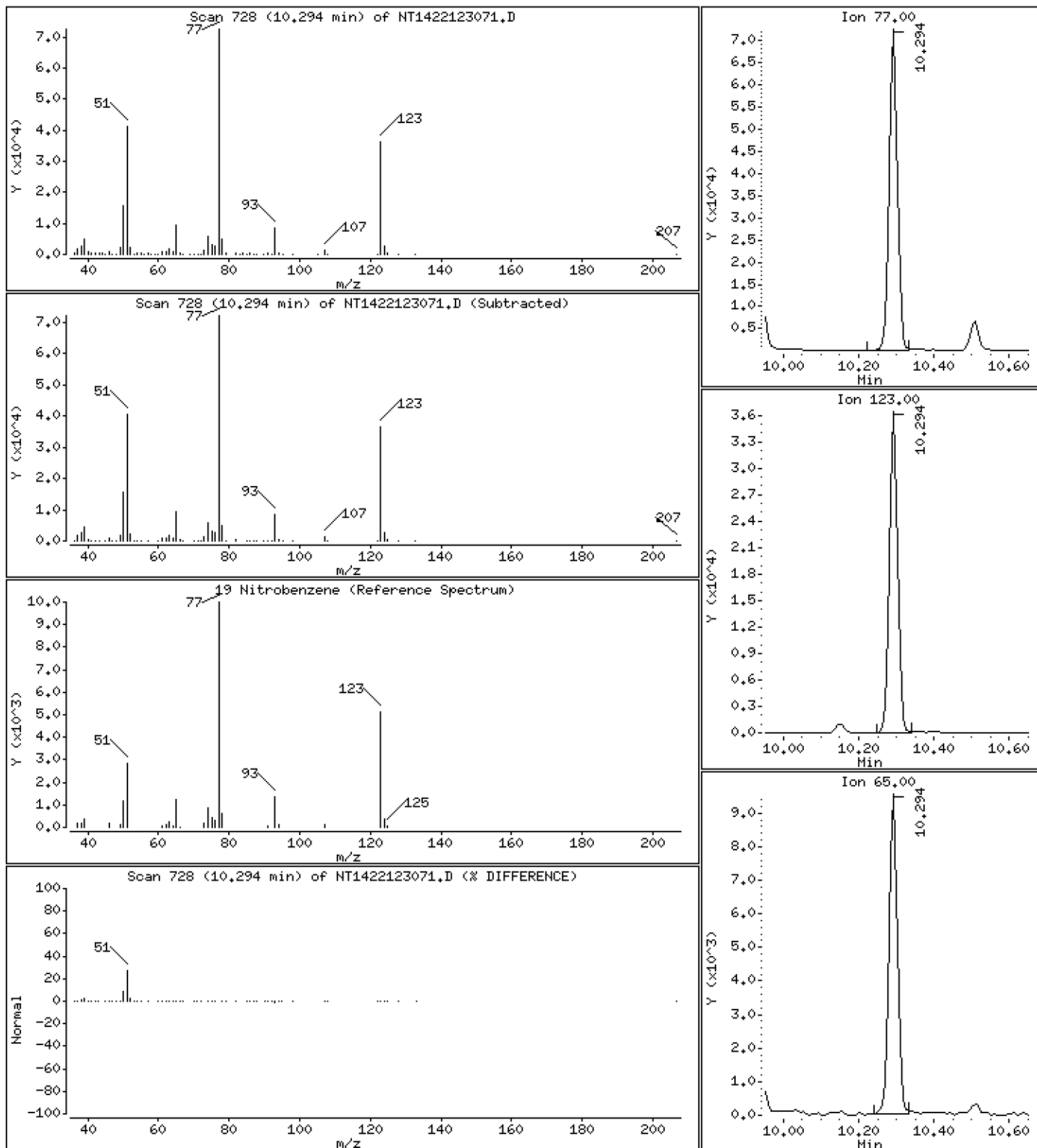
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,124 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

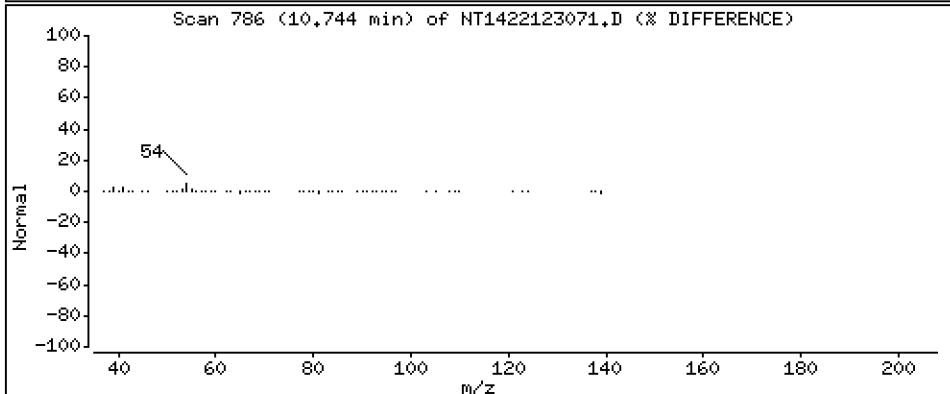
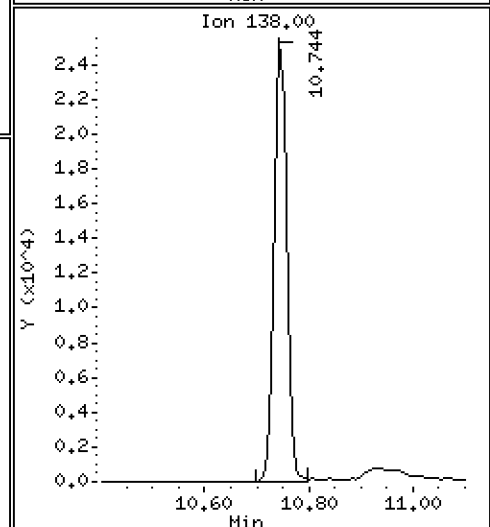
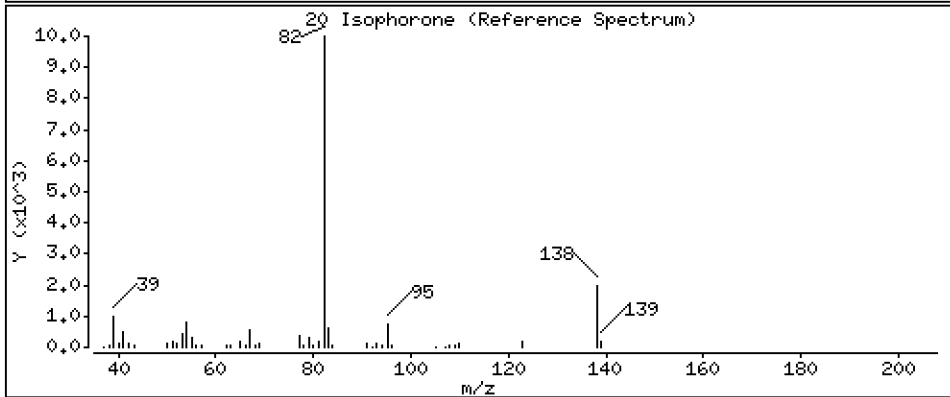
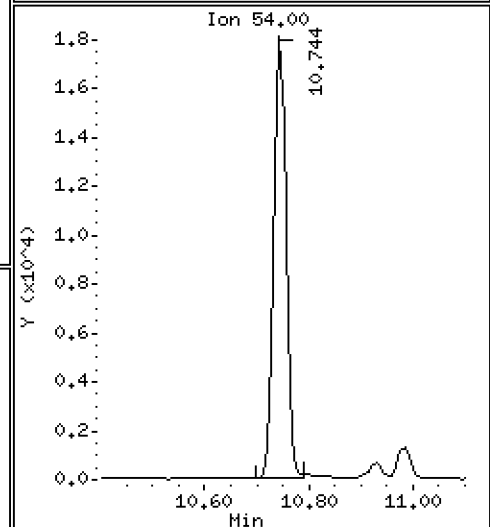
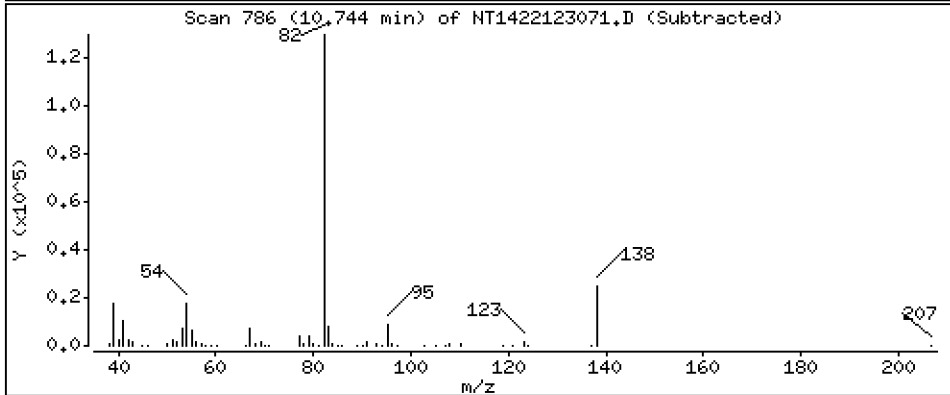
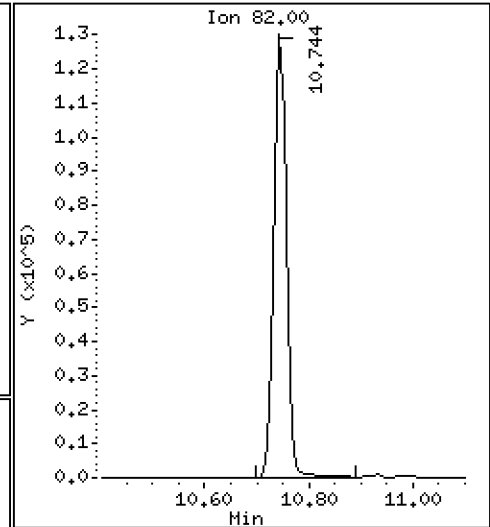
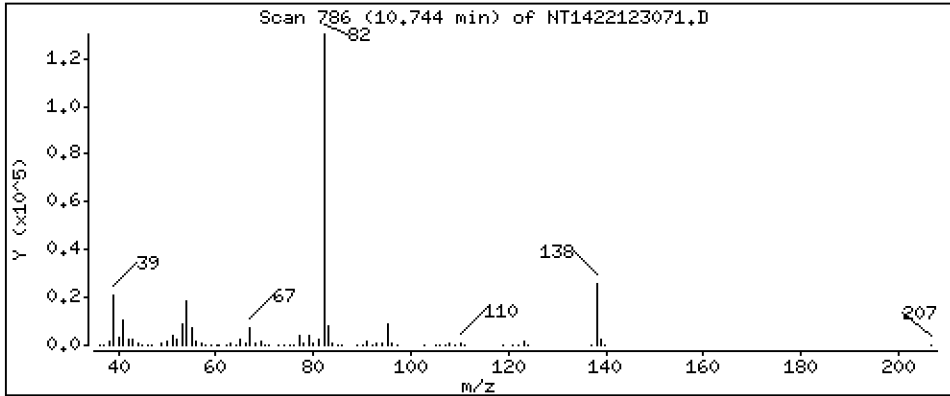
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,212 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

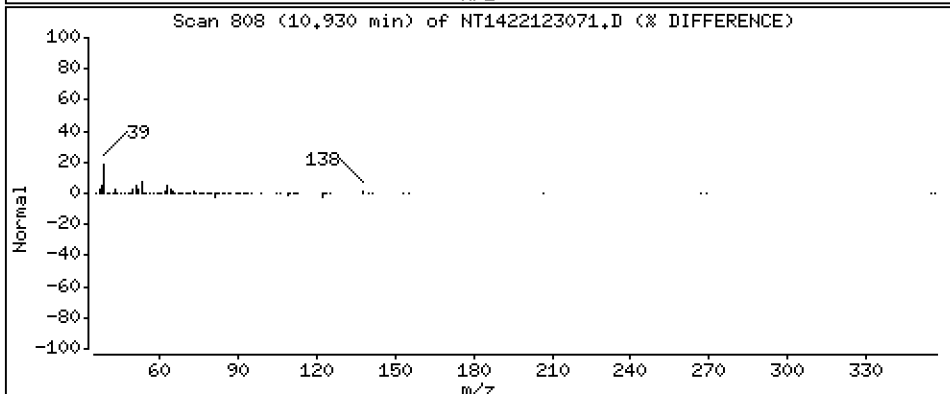
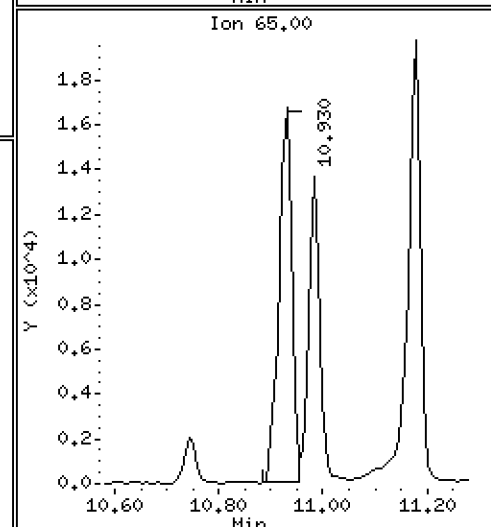
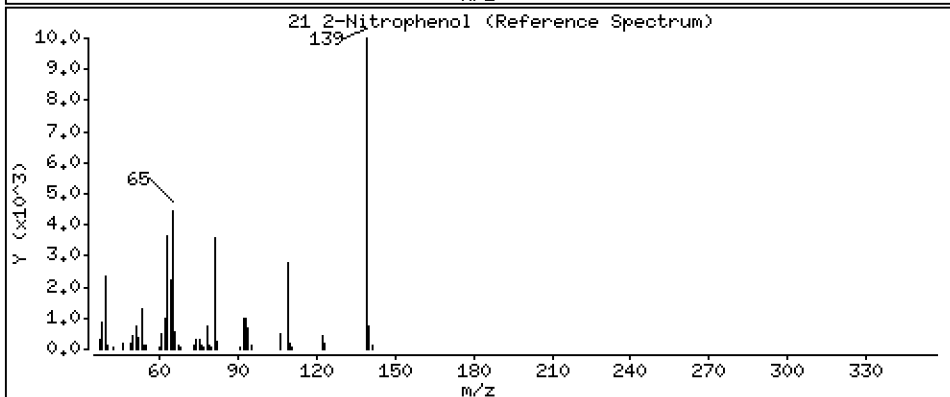
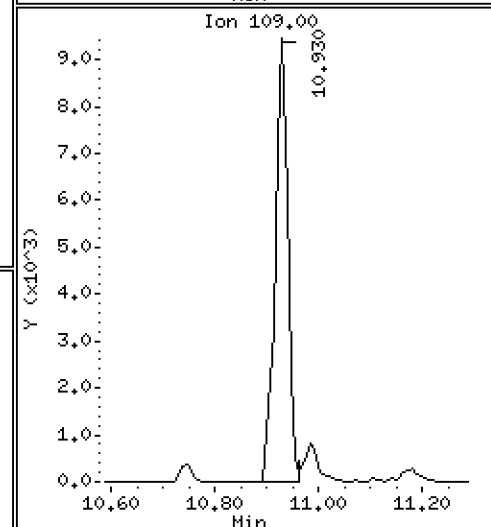
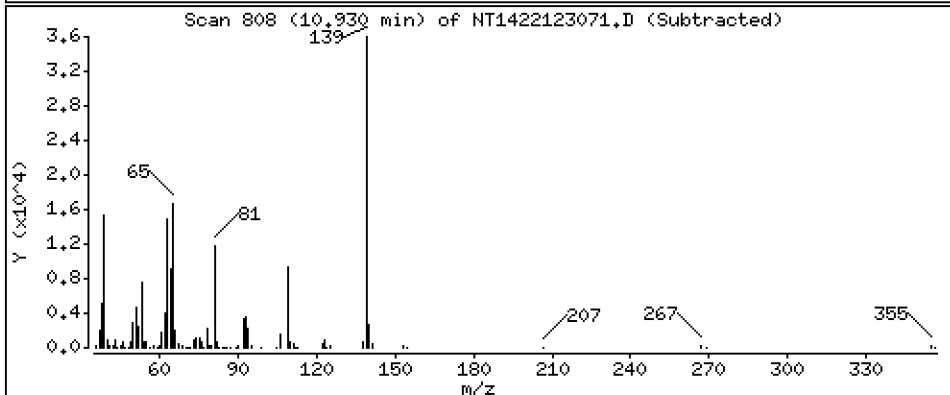
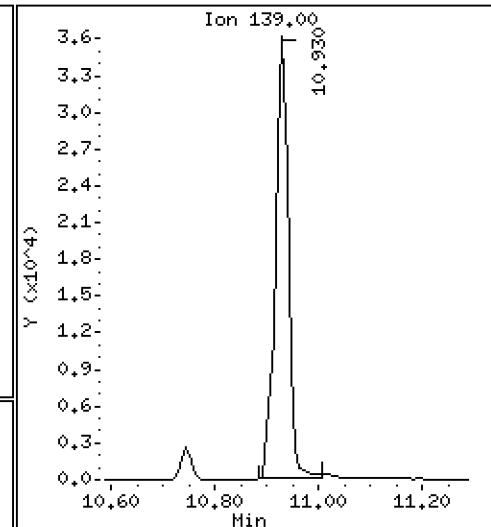
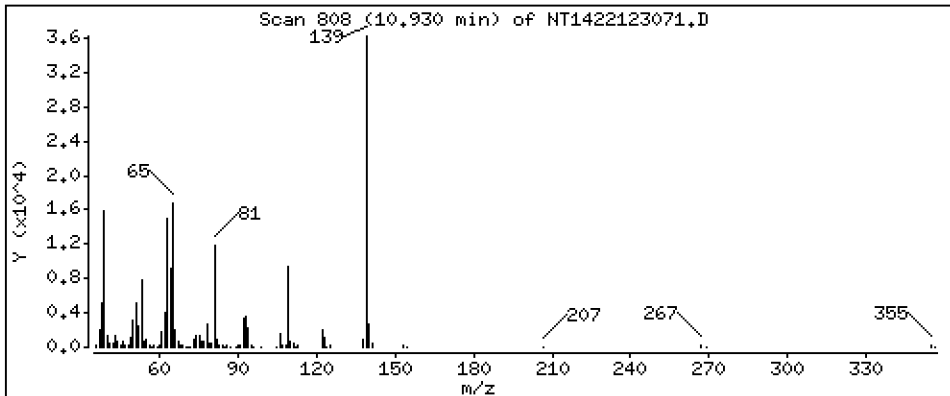
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 3,763 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

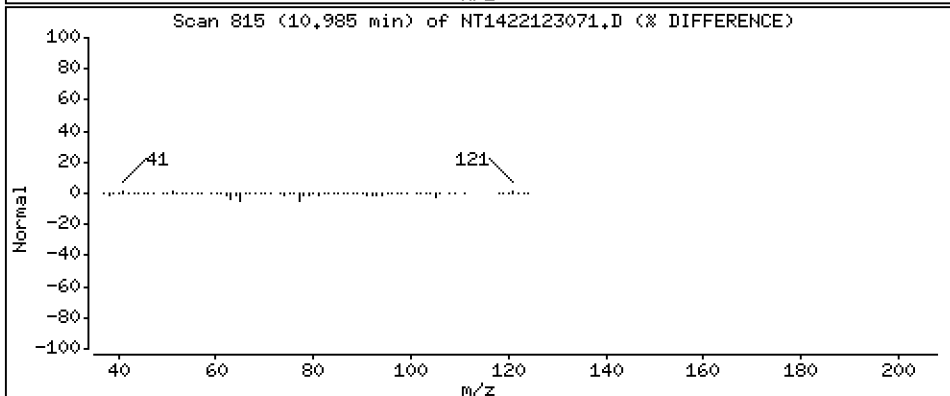
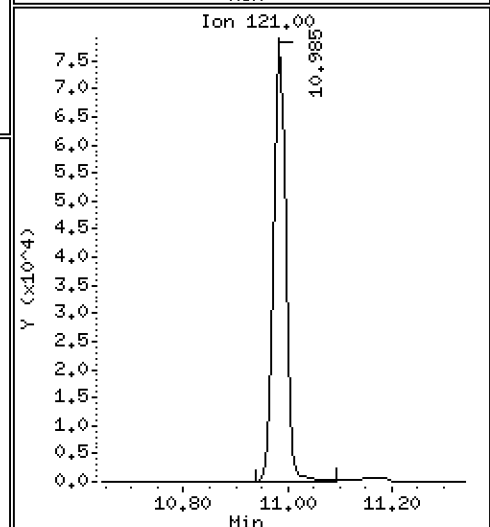
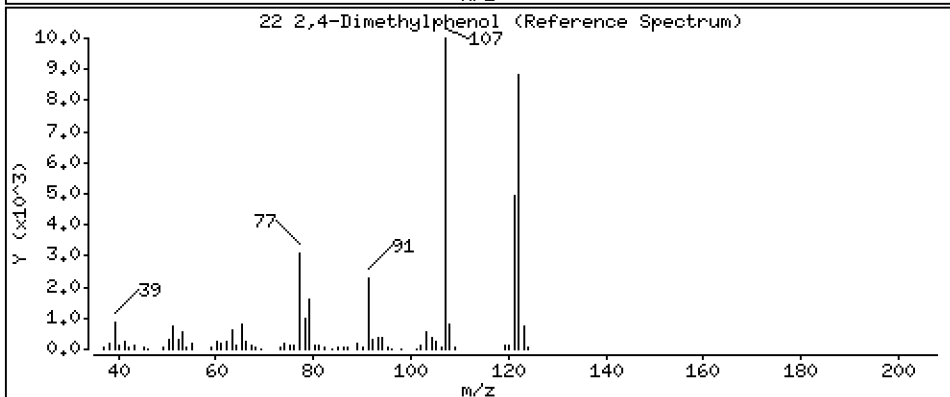
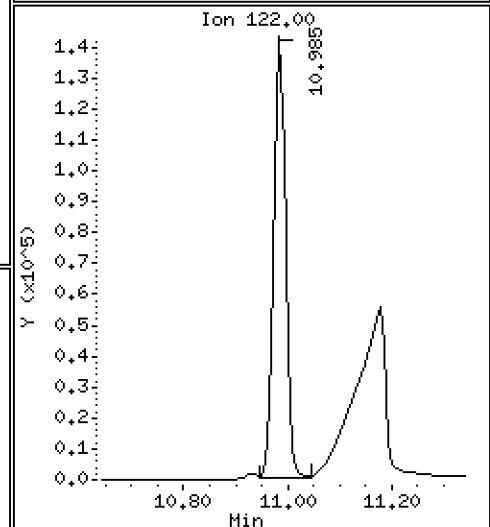
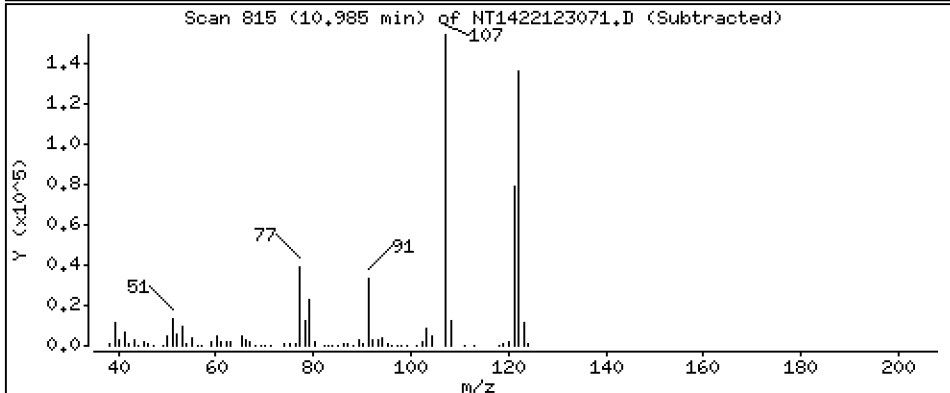
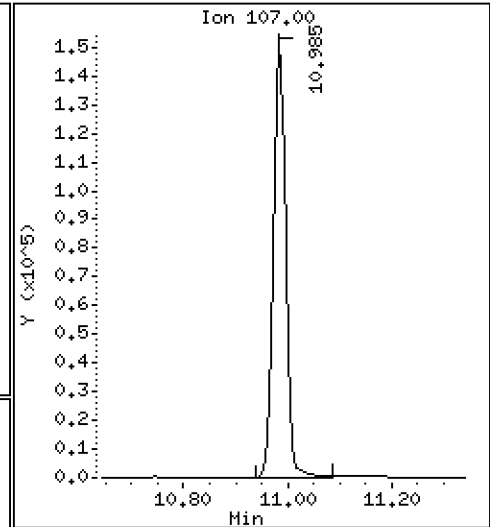
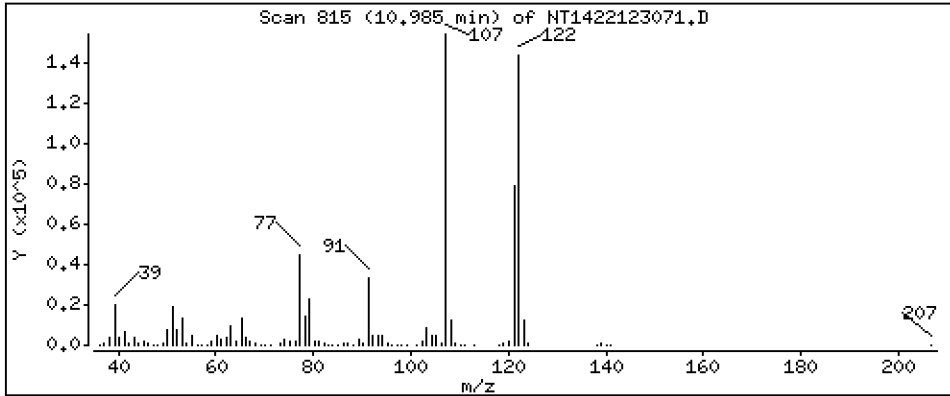
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 8,605 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

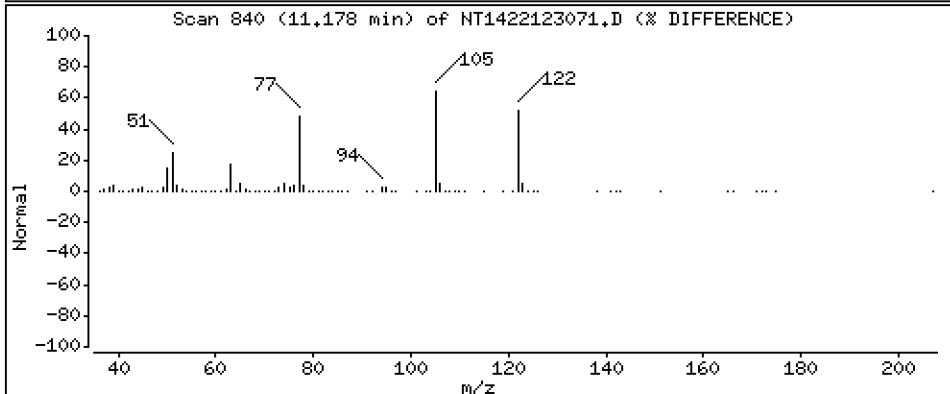
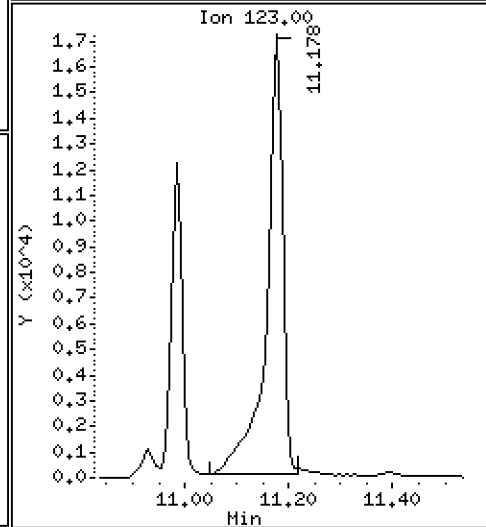
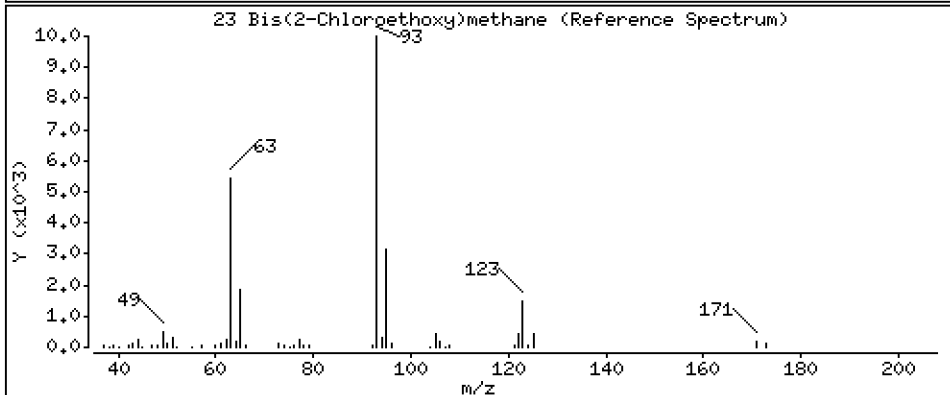
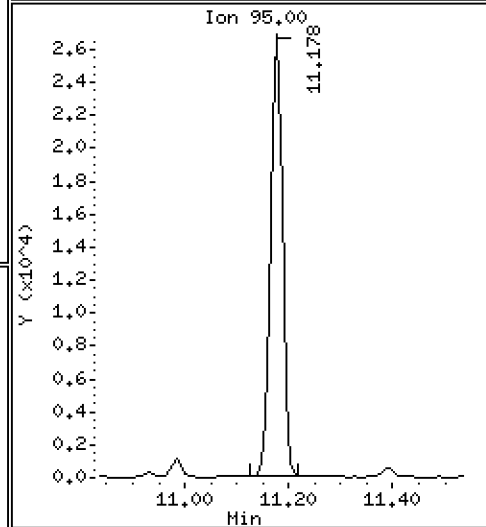
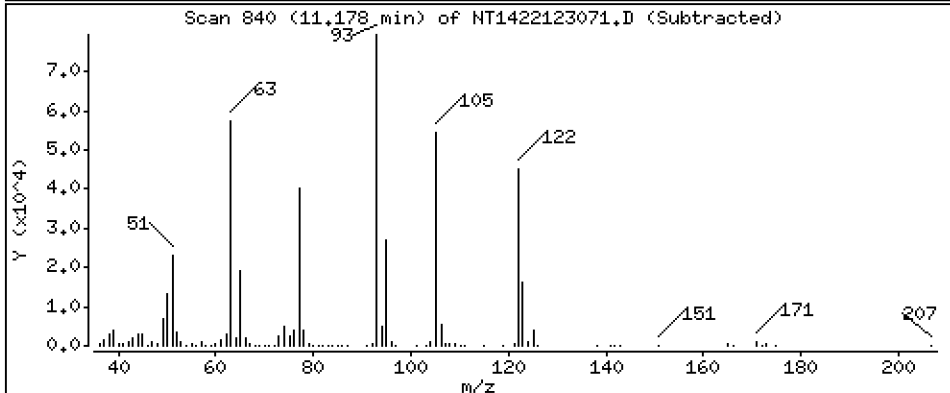
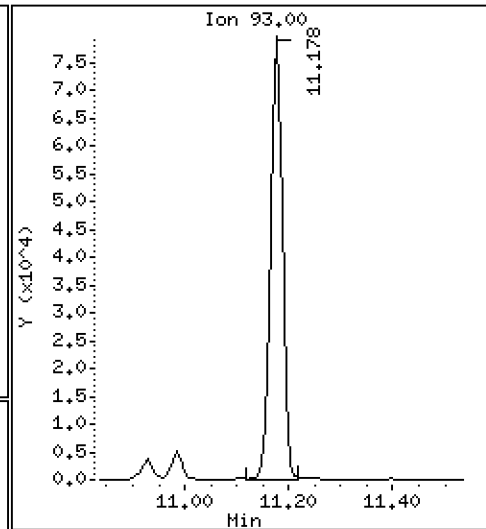
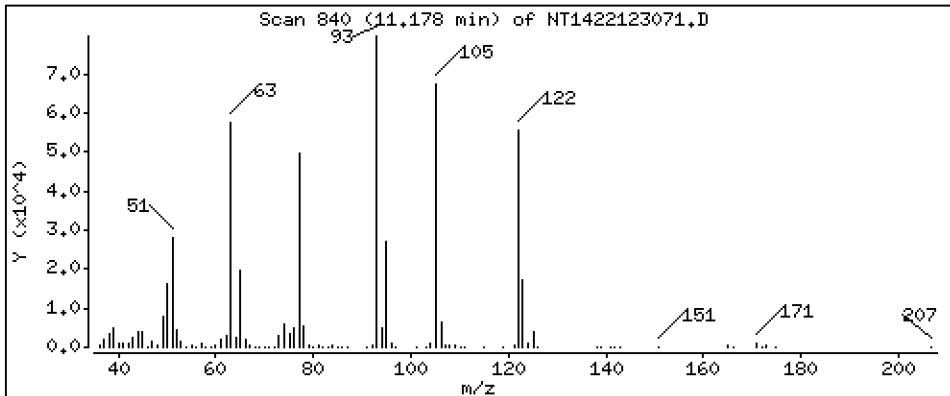
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,564 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

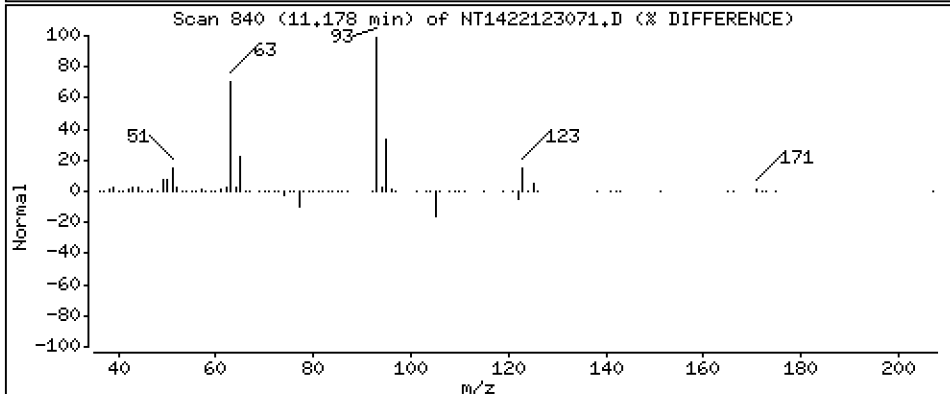
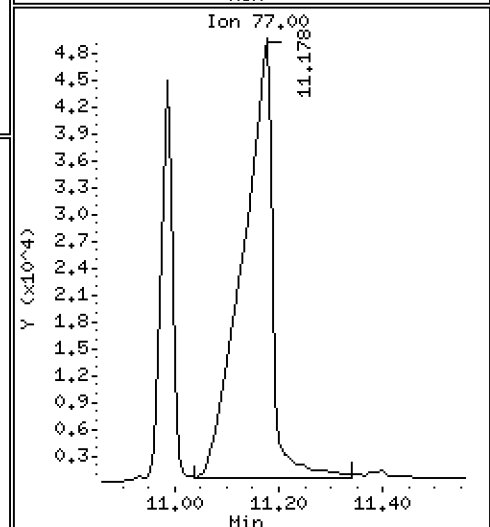
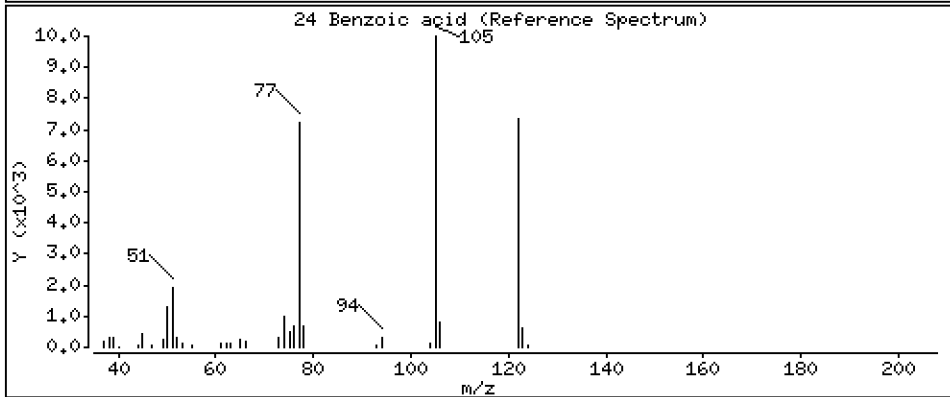
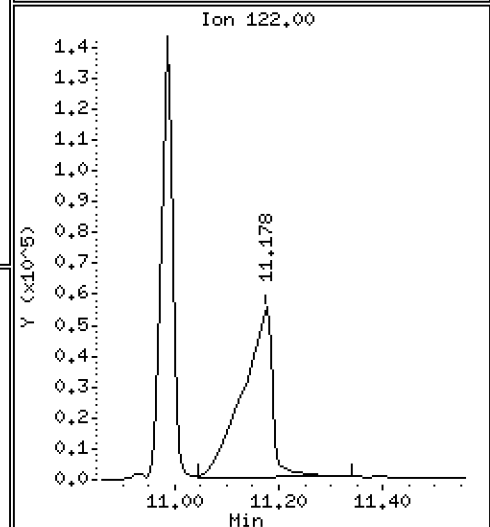
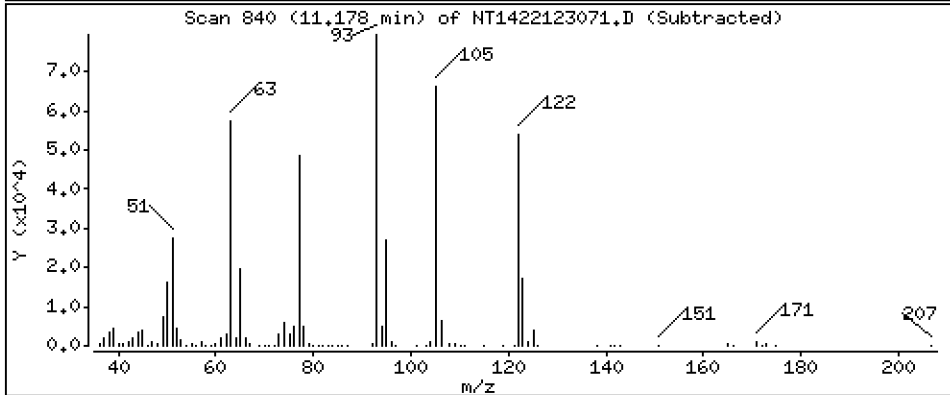
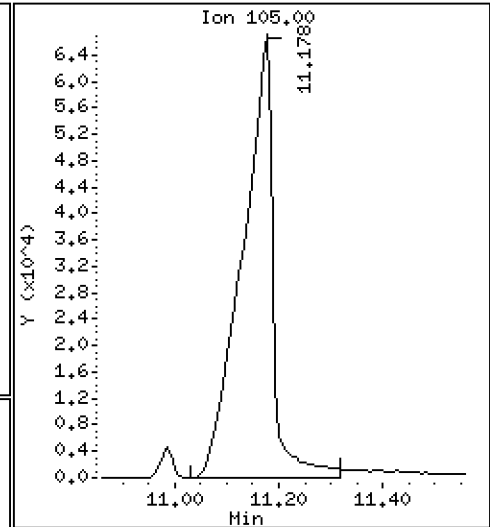
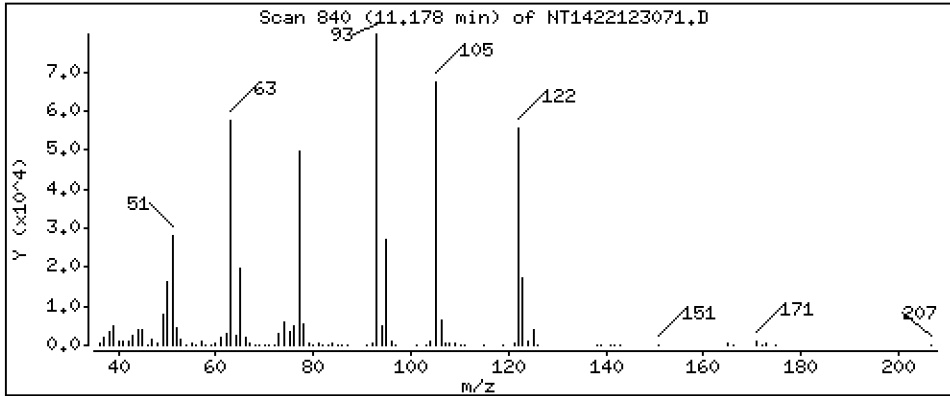
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 16,29 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

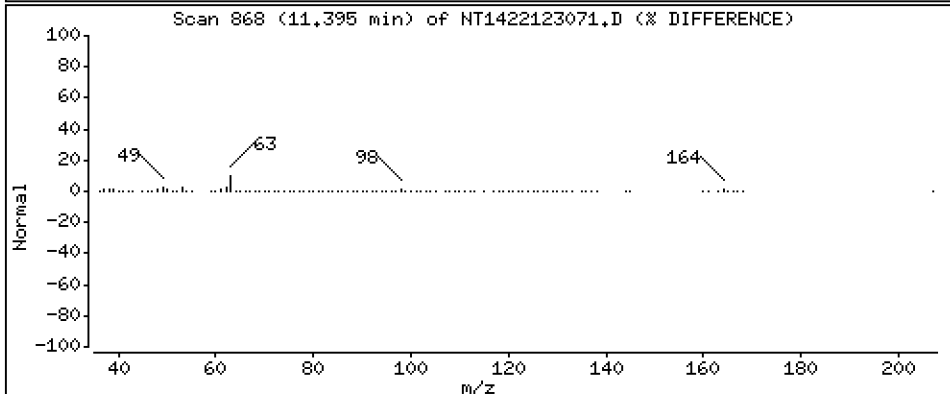
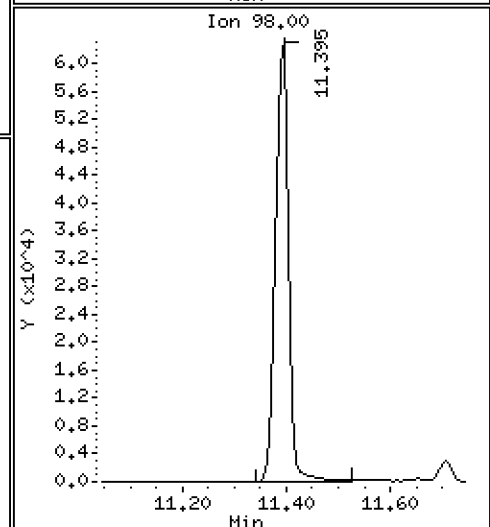
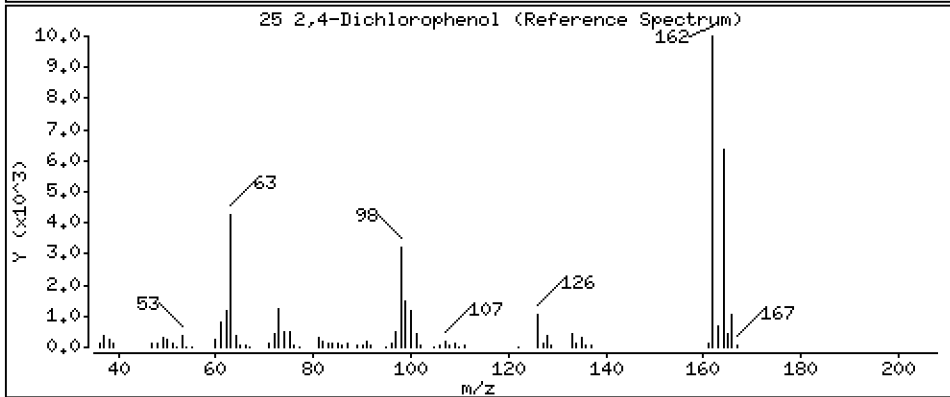
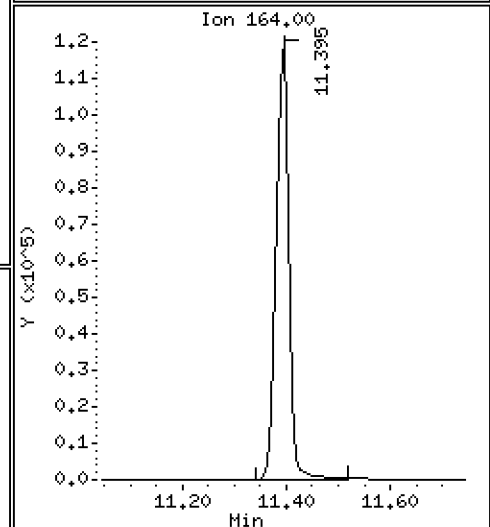
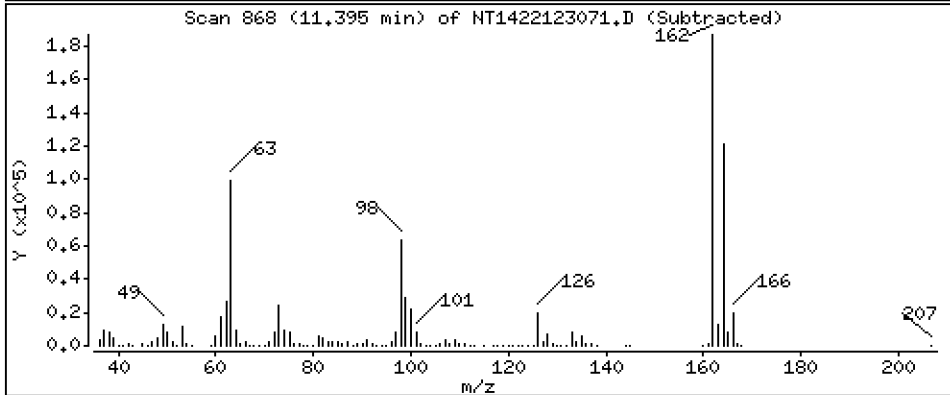
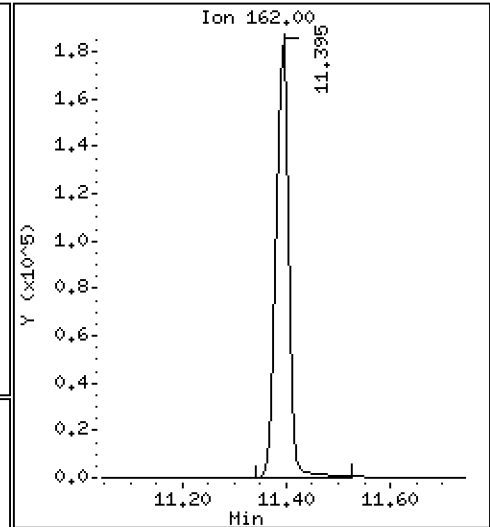
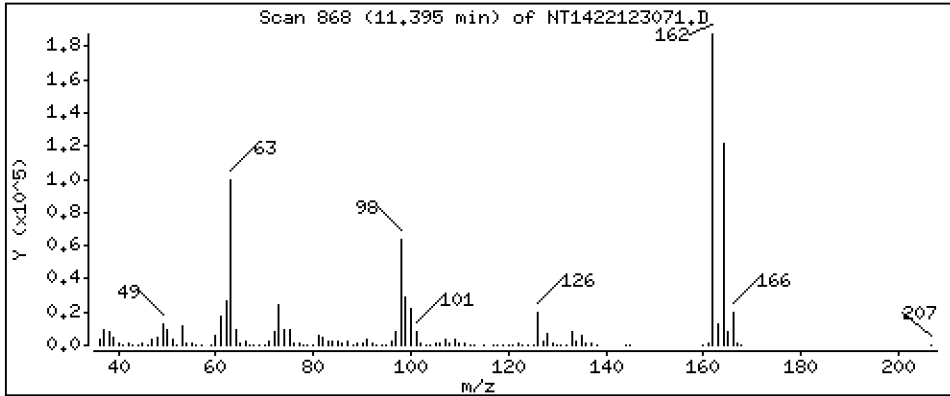
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 14,43 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

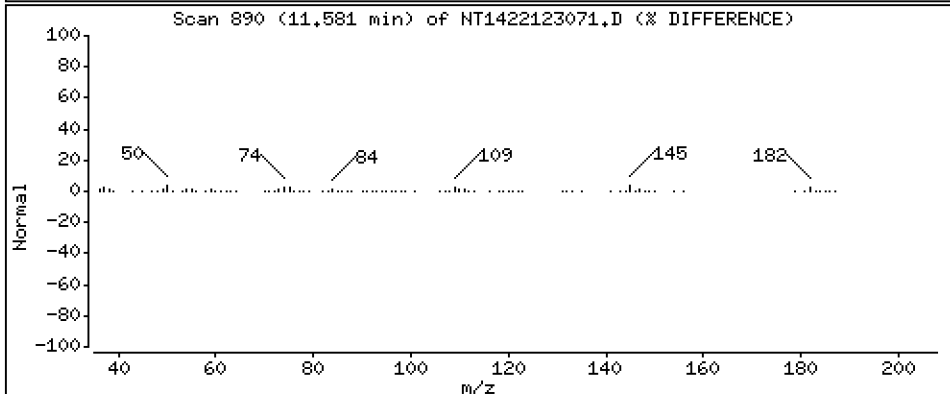
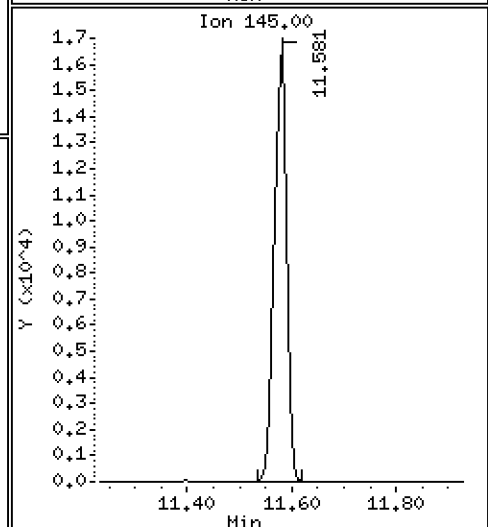
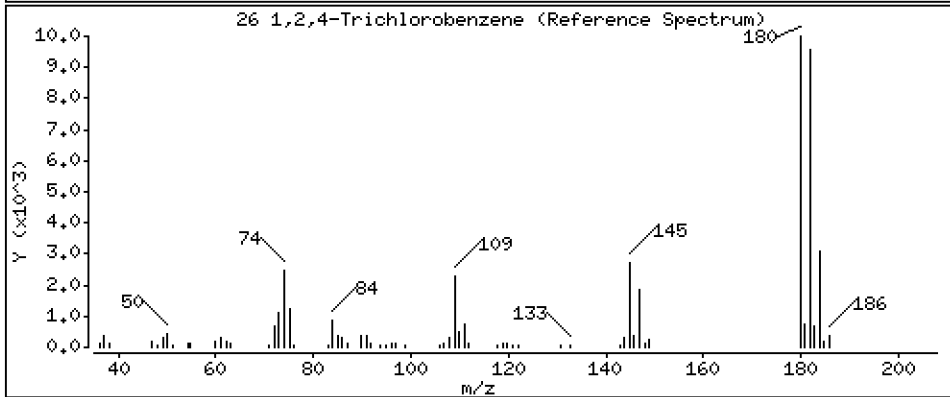
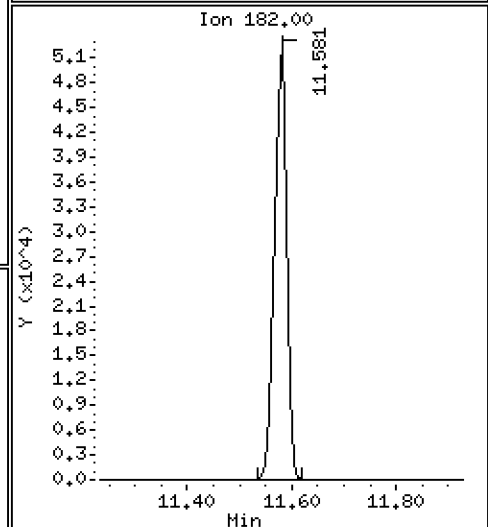
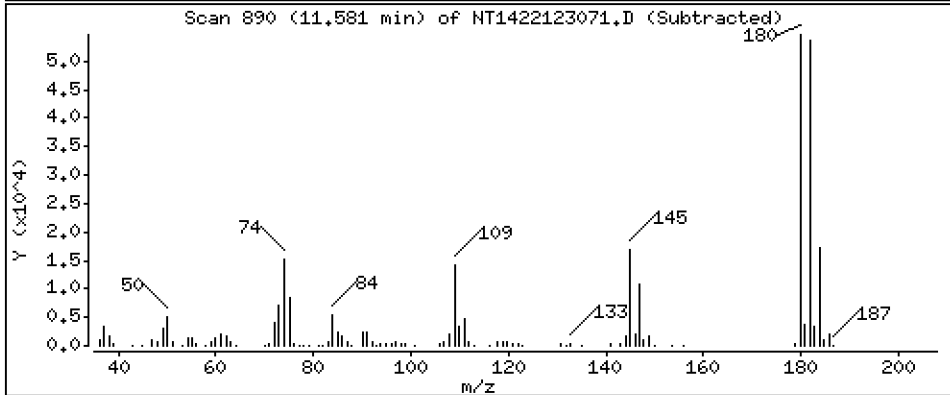
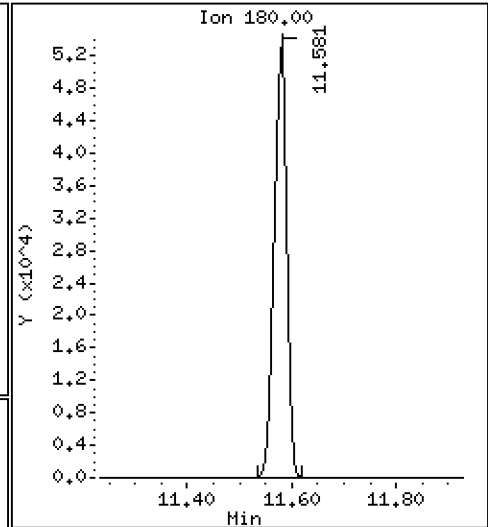
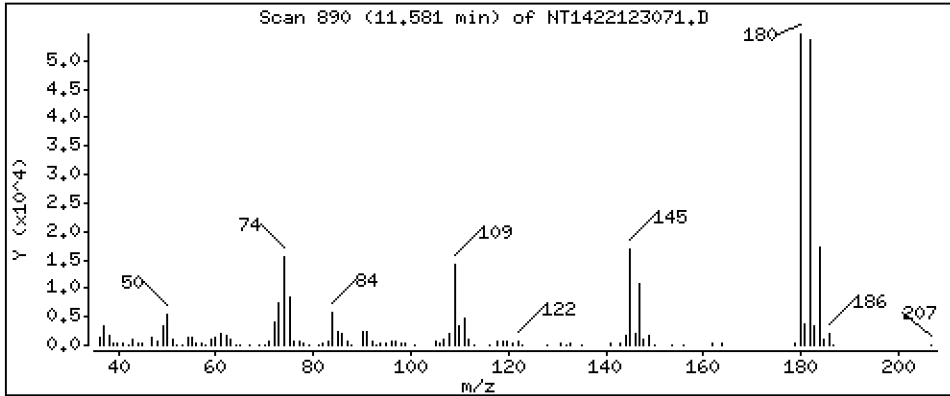
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 3,485 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

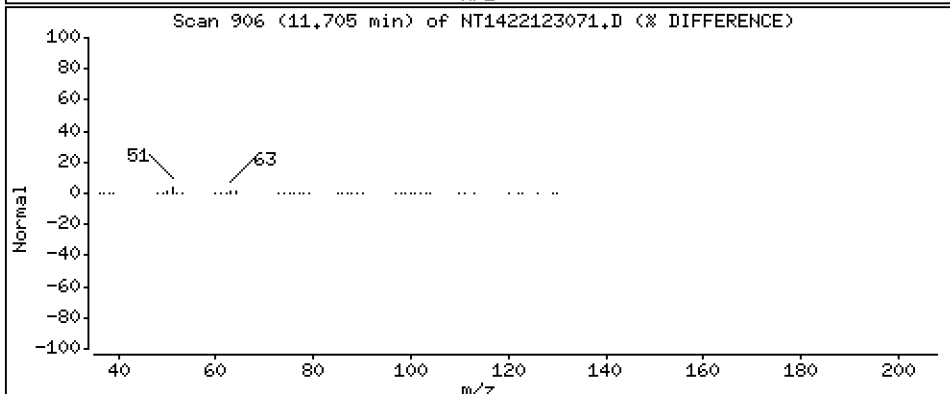
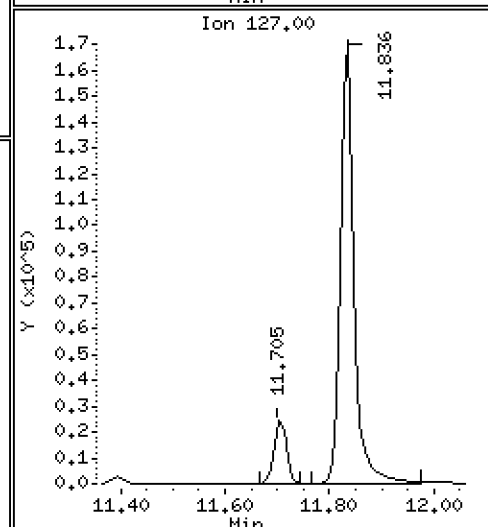
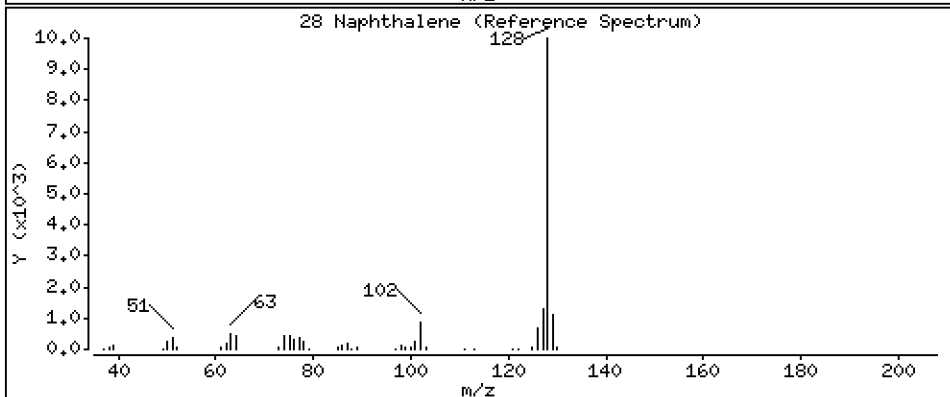
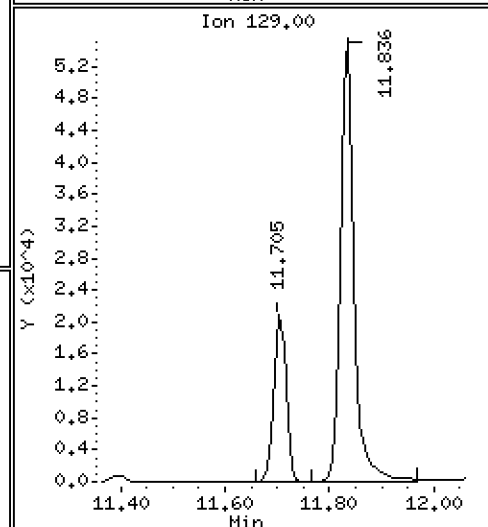
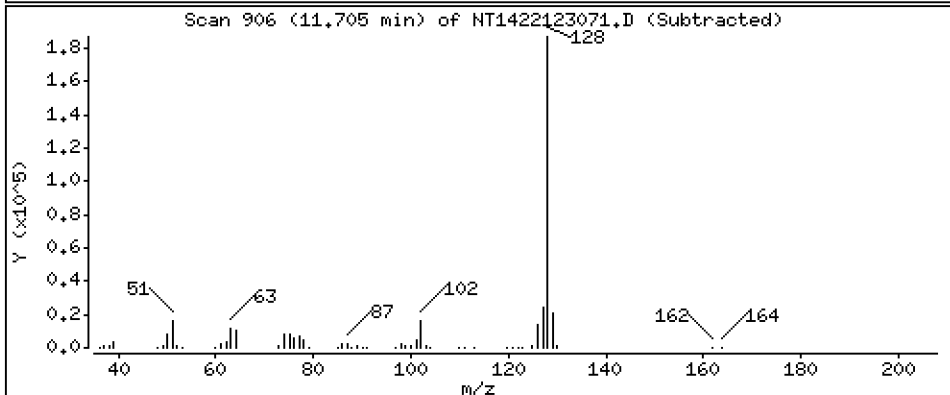
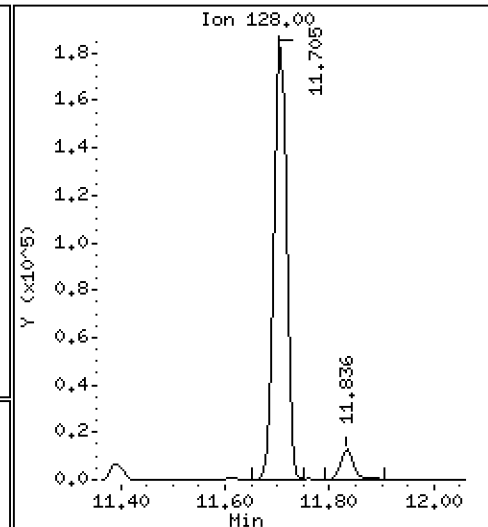
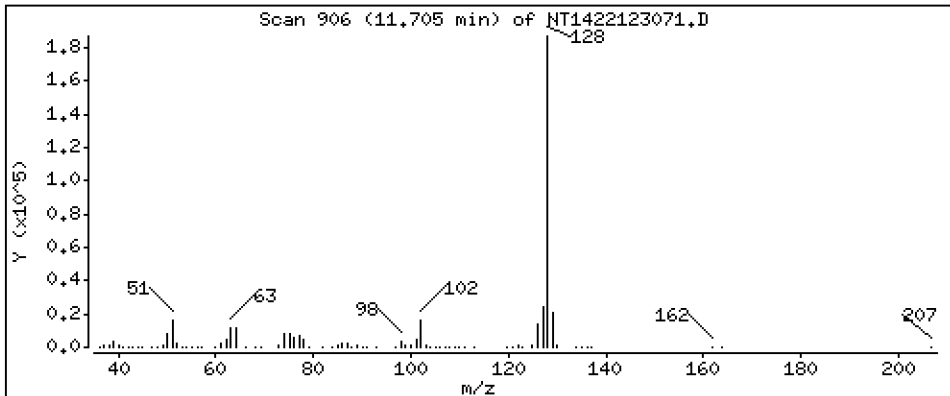
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 3,844 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

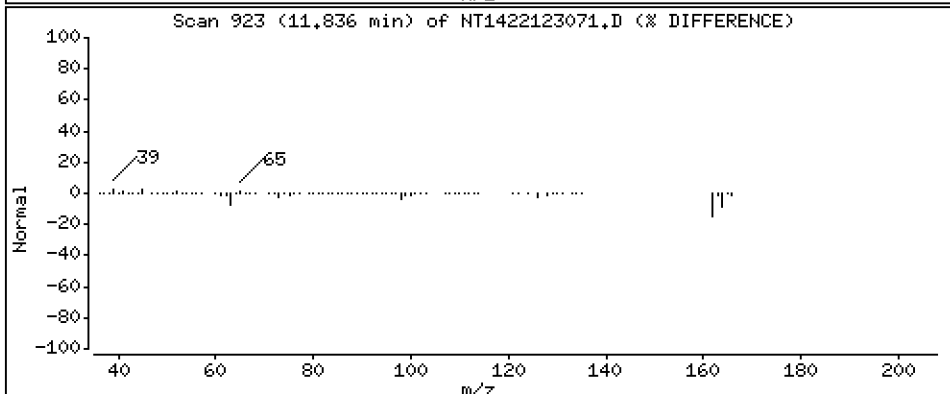
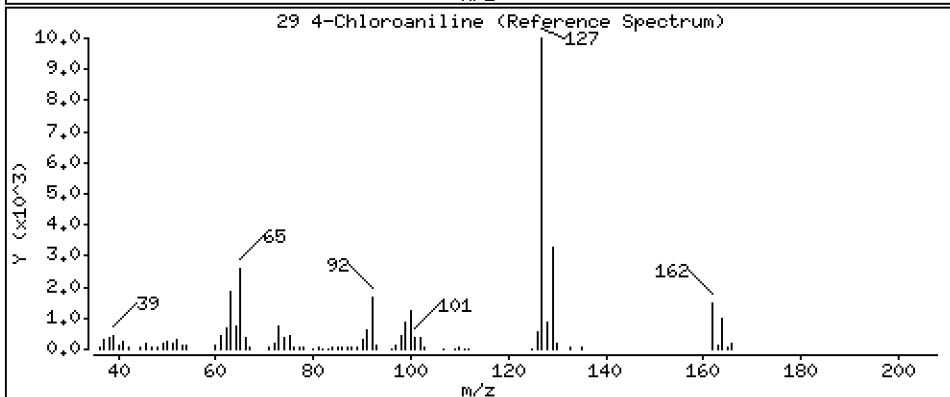
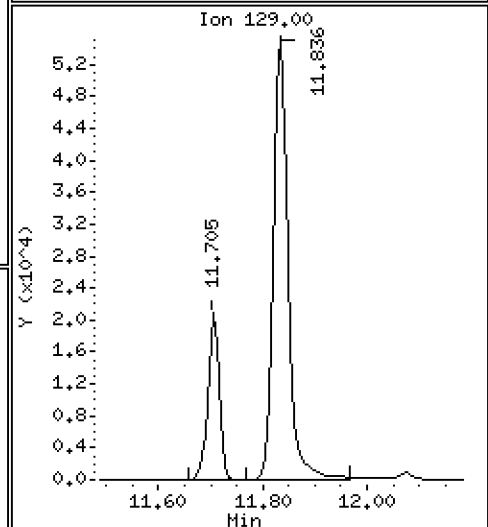
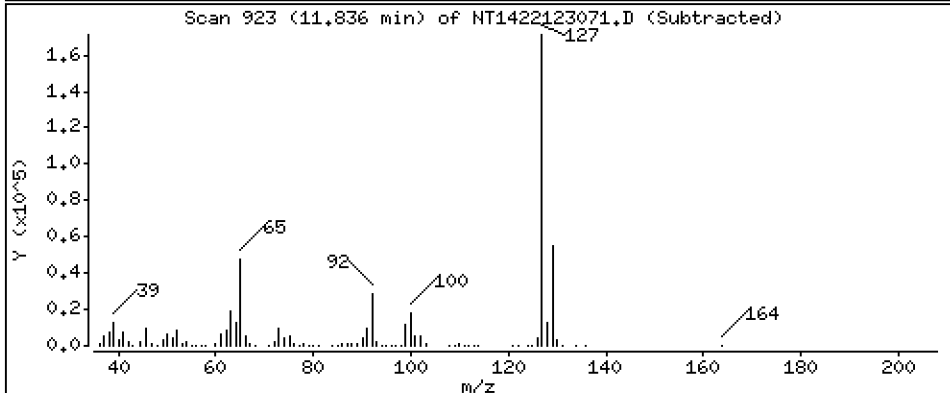
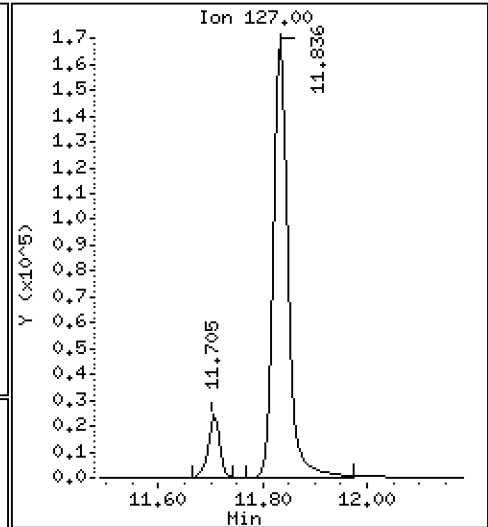
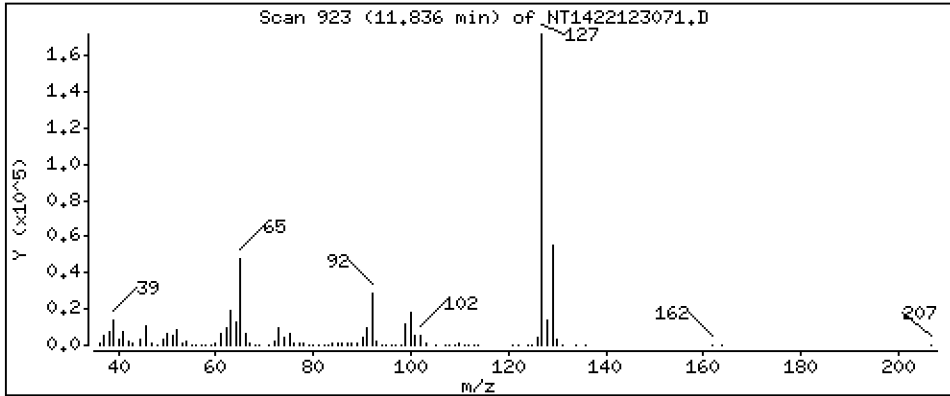
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 10,06 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

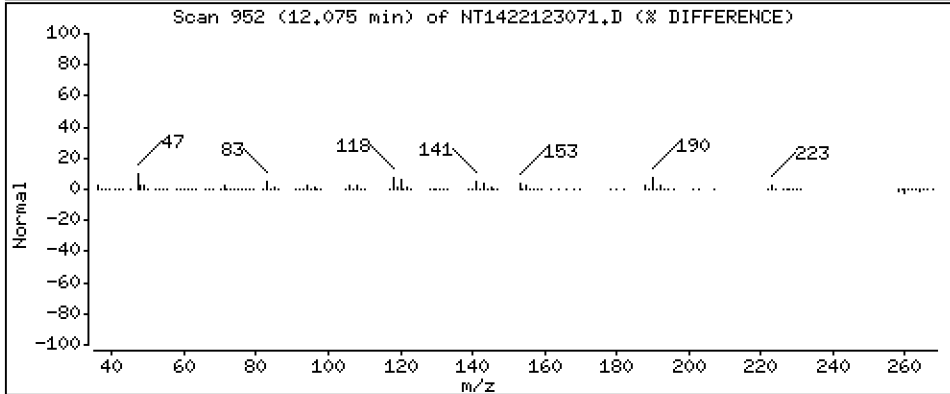
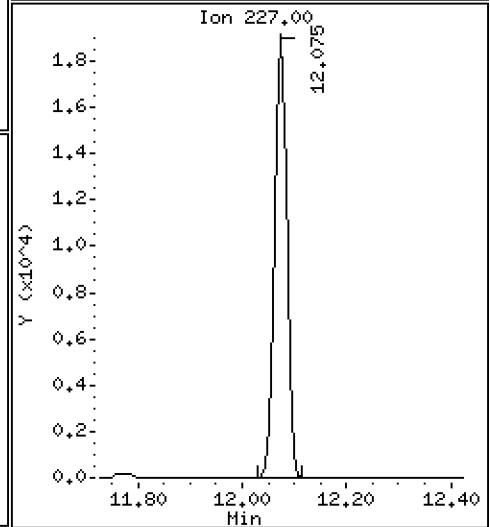
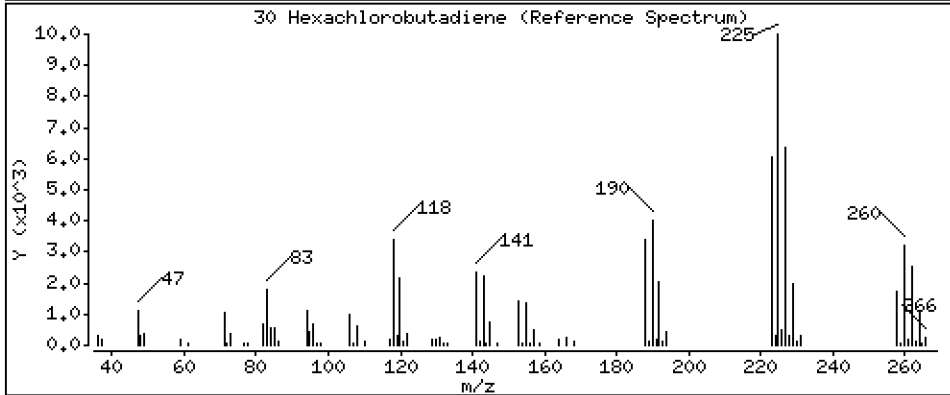
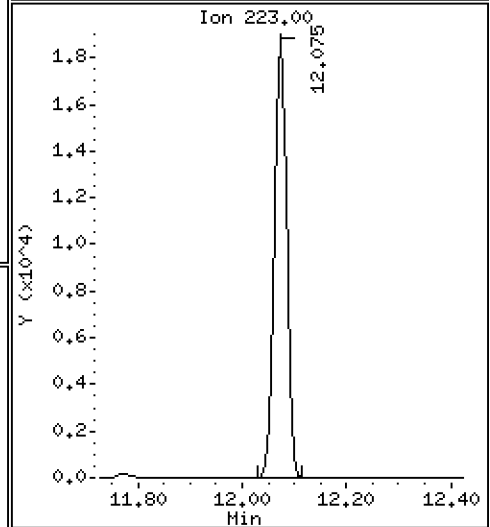
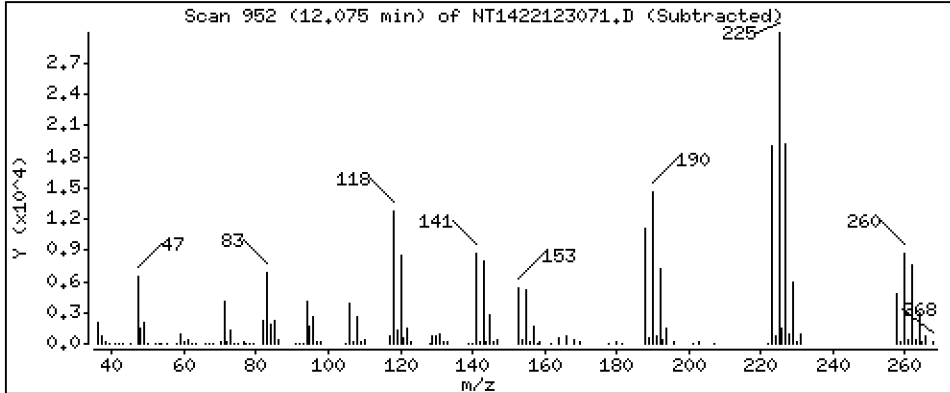
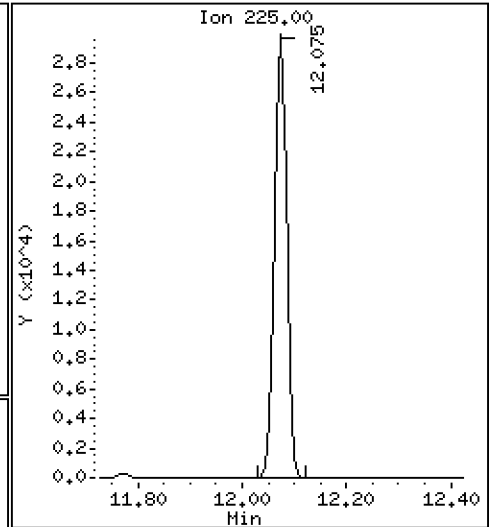
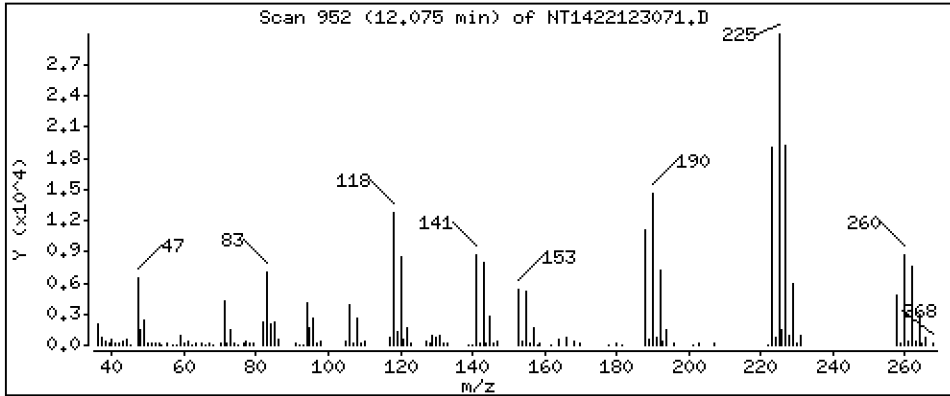
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 3,753 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

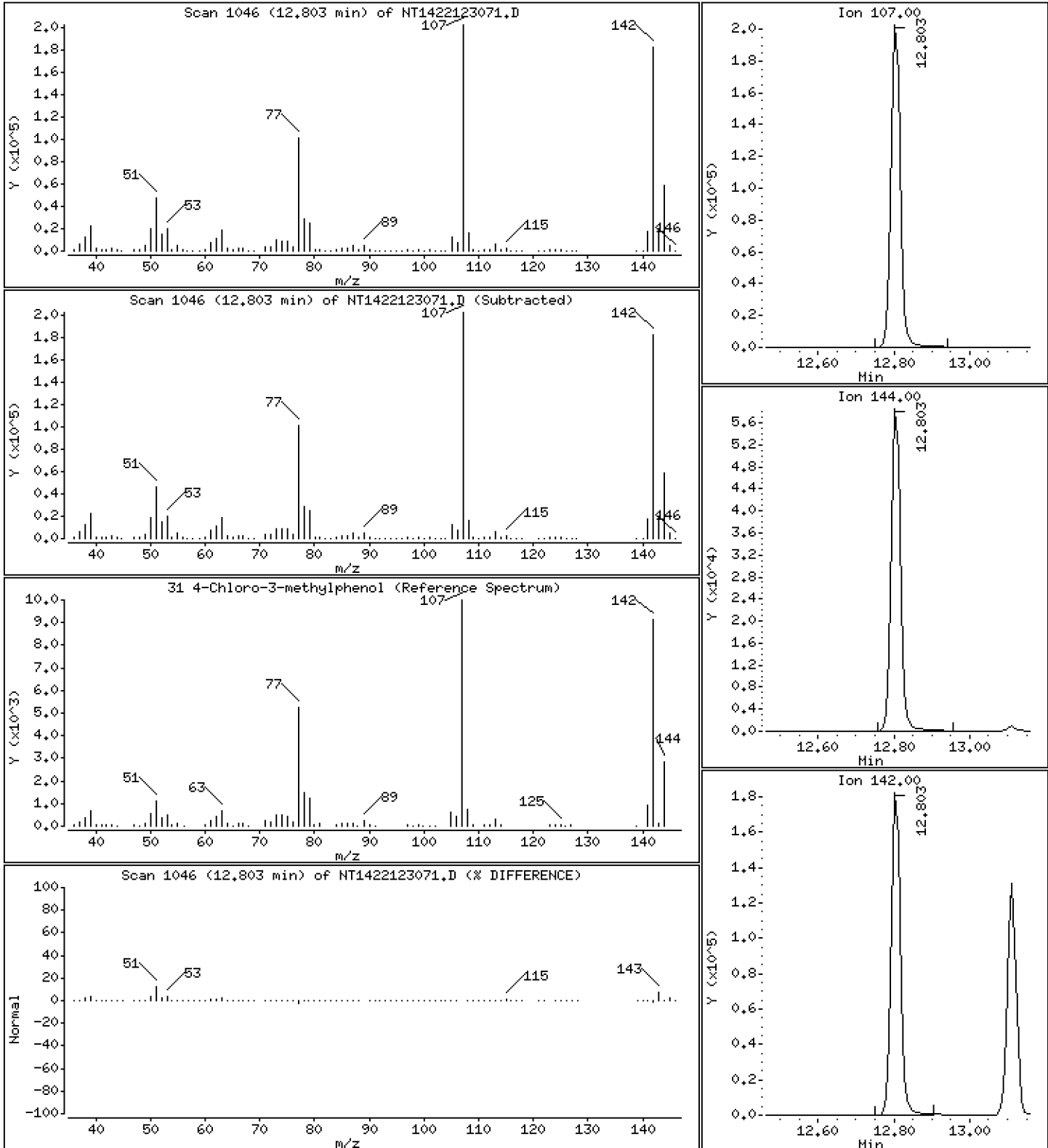
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 15,17 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

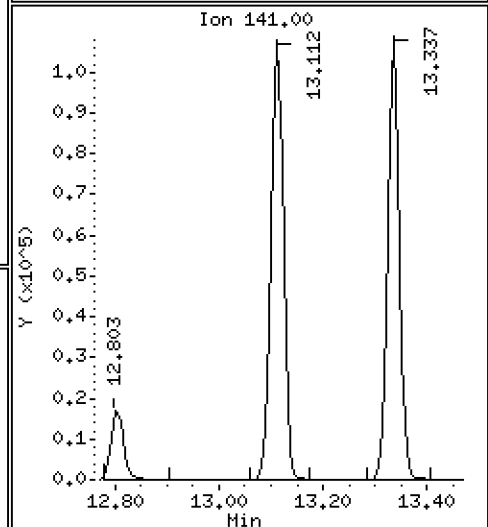
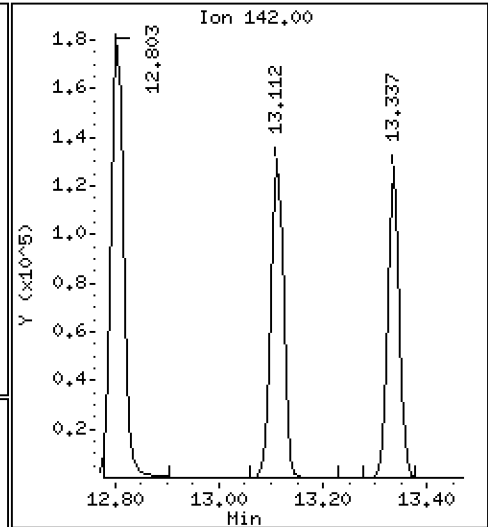
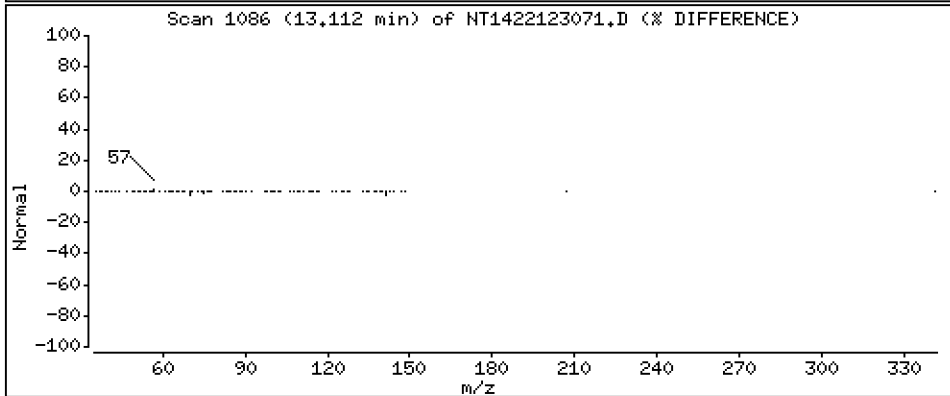
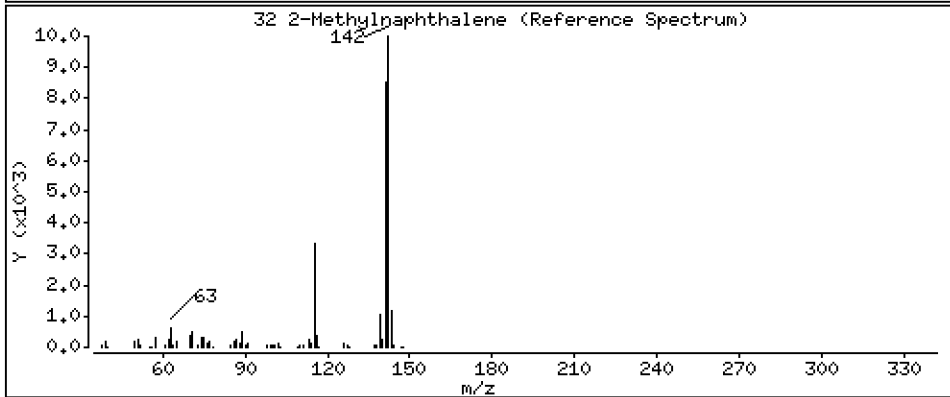
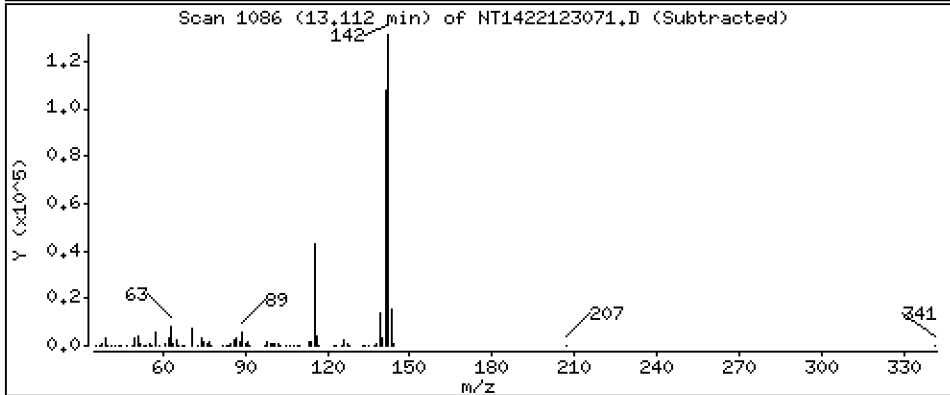
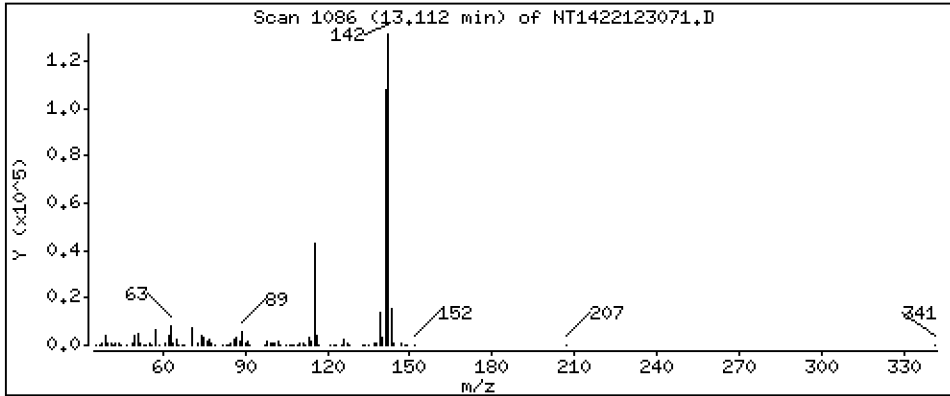
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 3,734 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

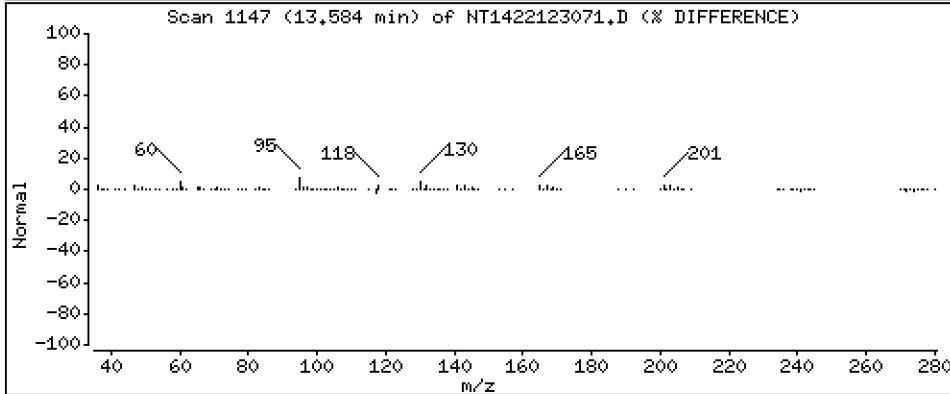
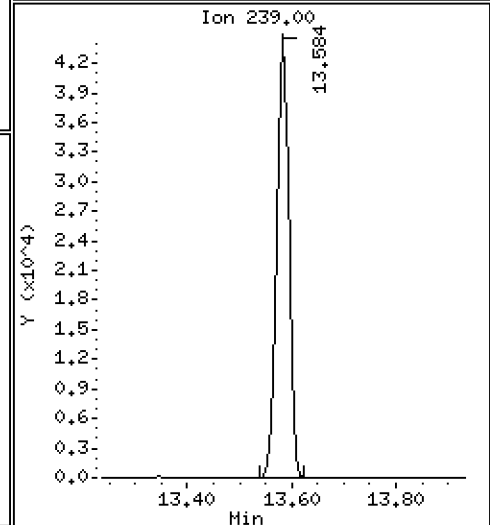
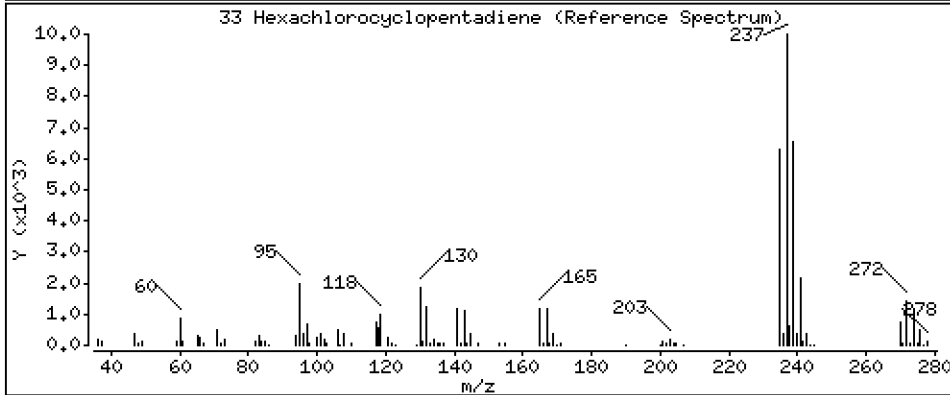
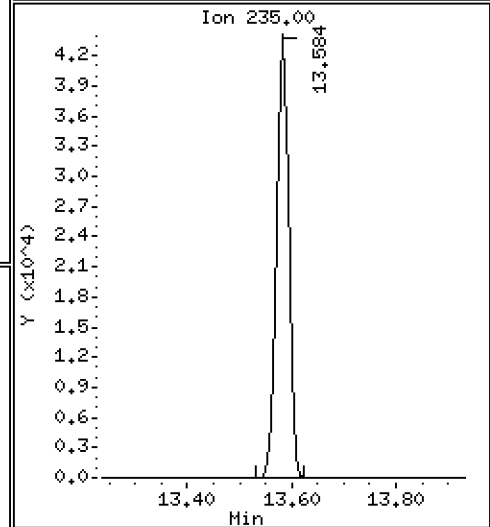
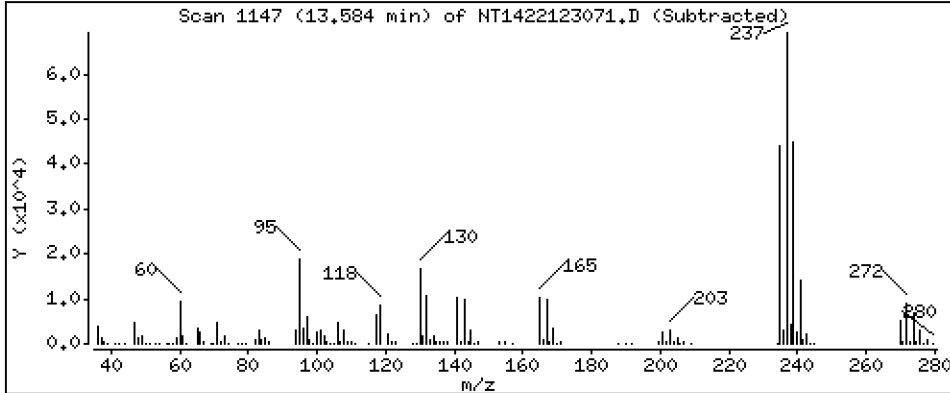
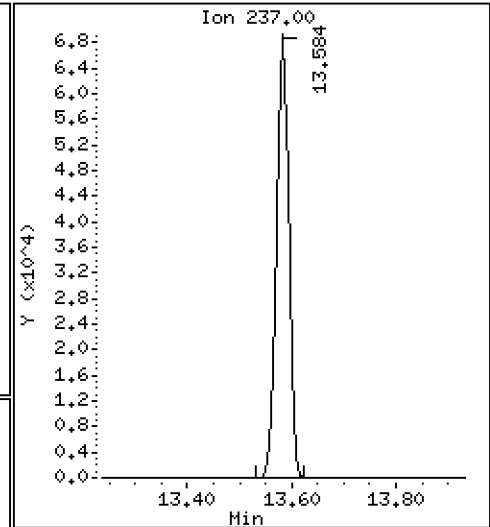
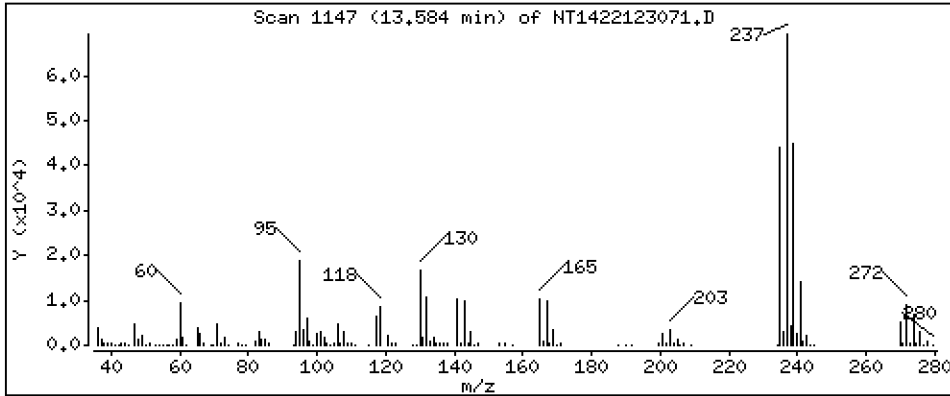
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 8,845 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

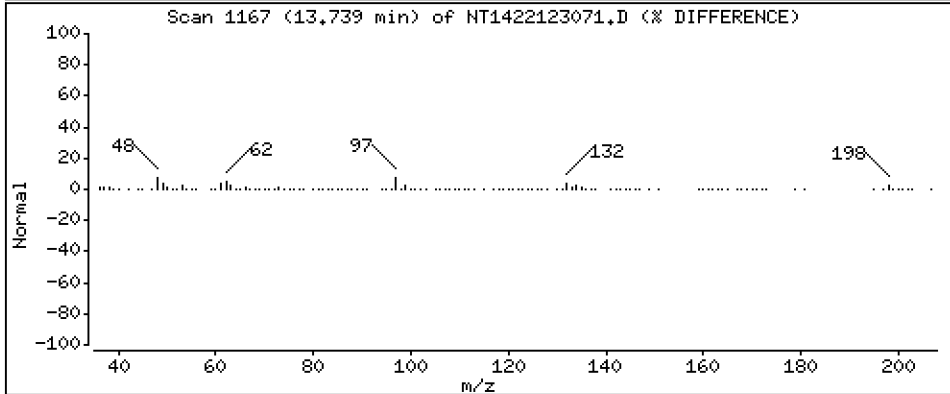
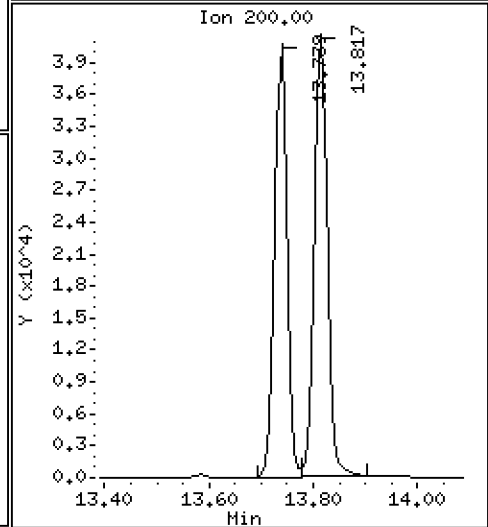
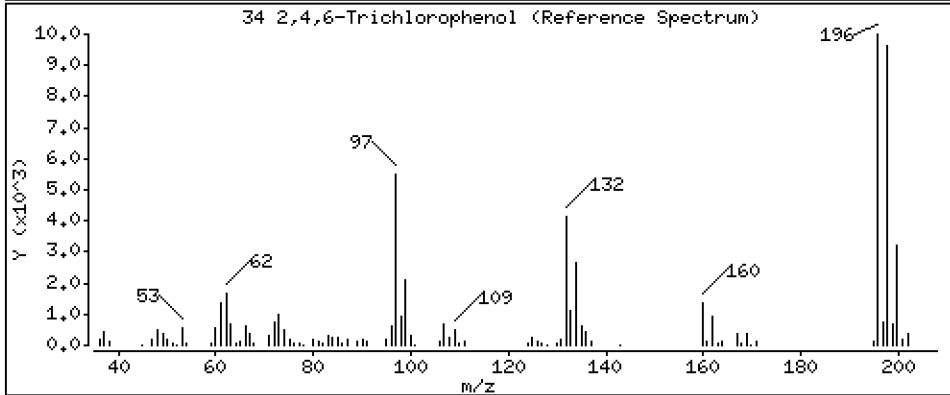
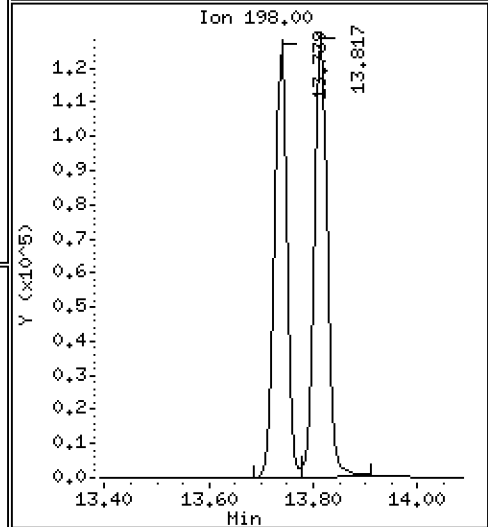
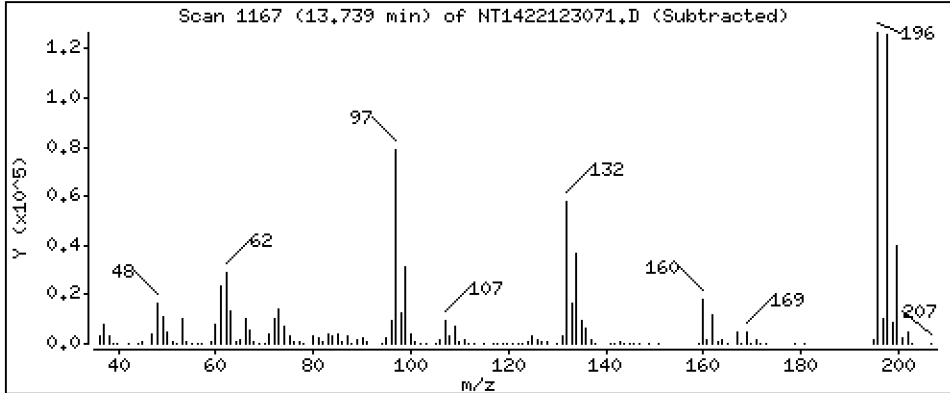
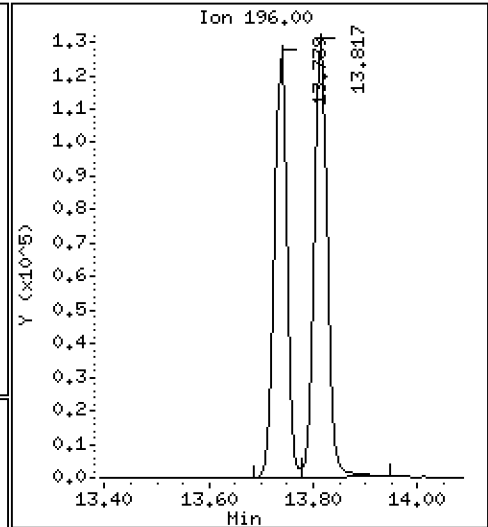
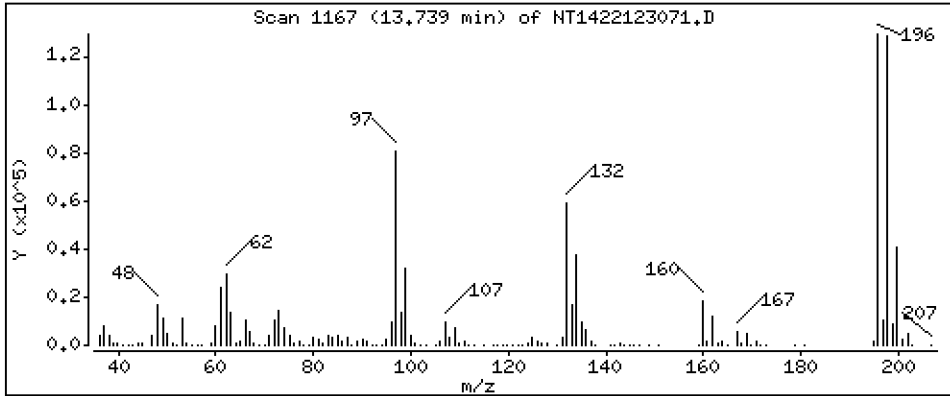
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 15,21 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

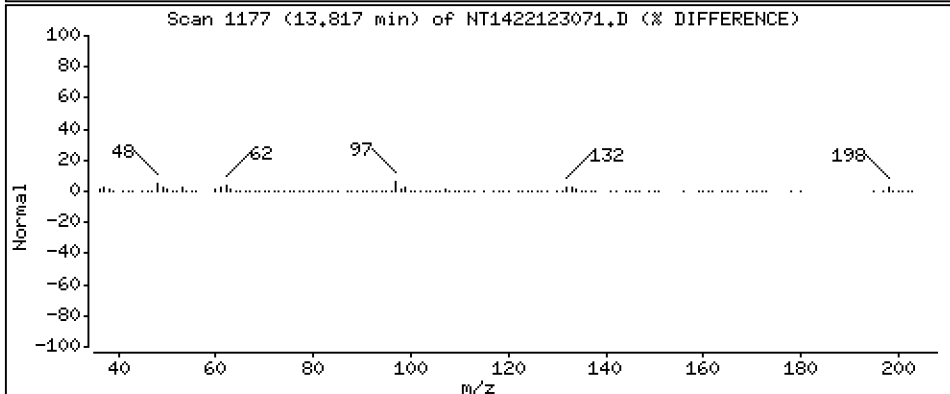
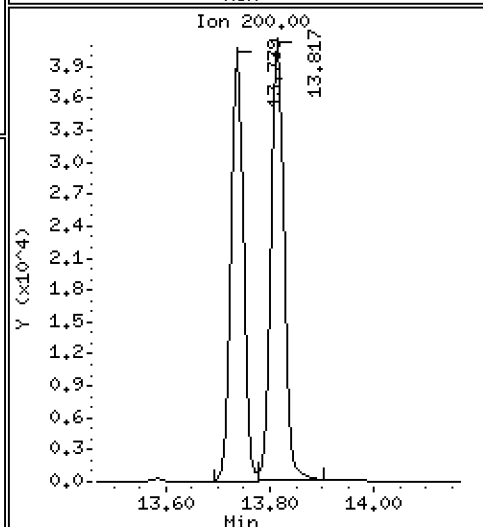
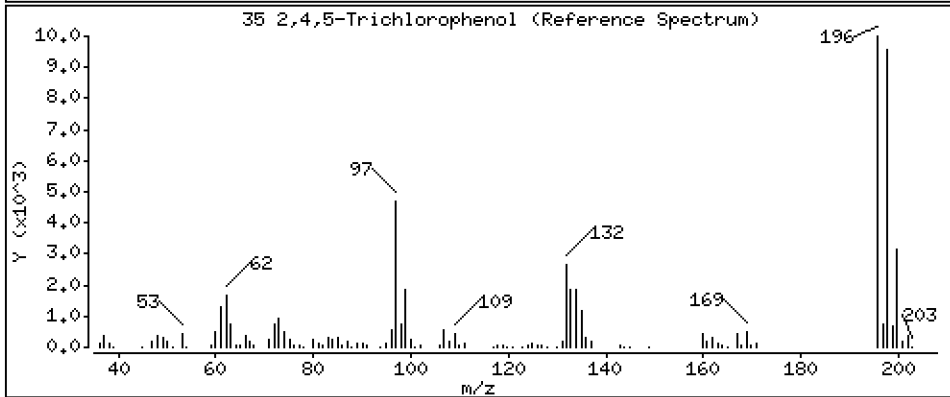
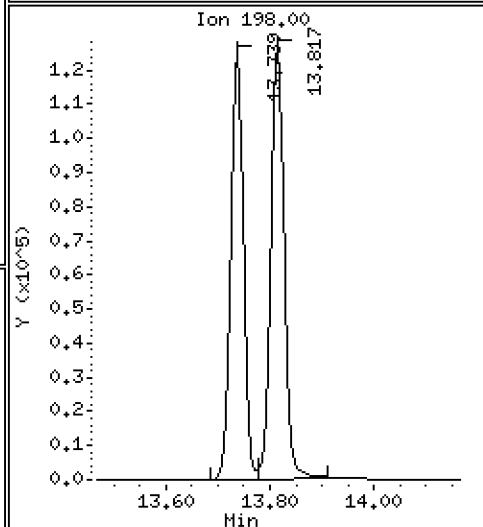
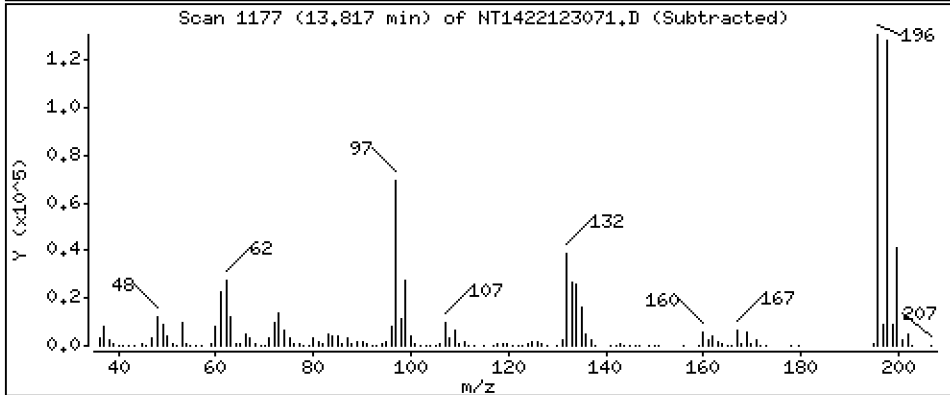
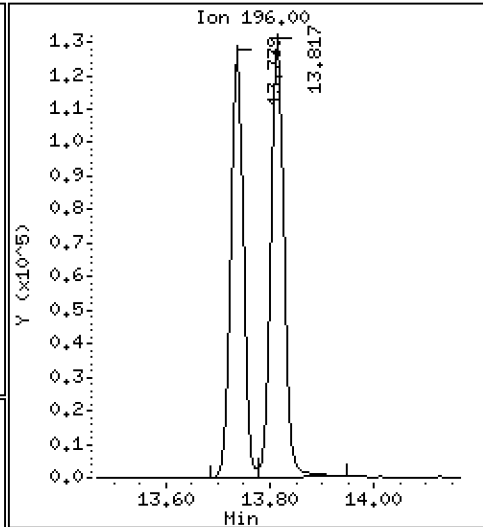
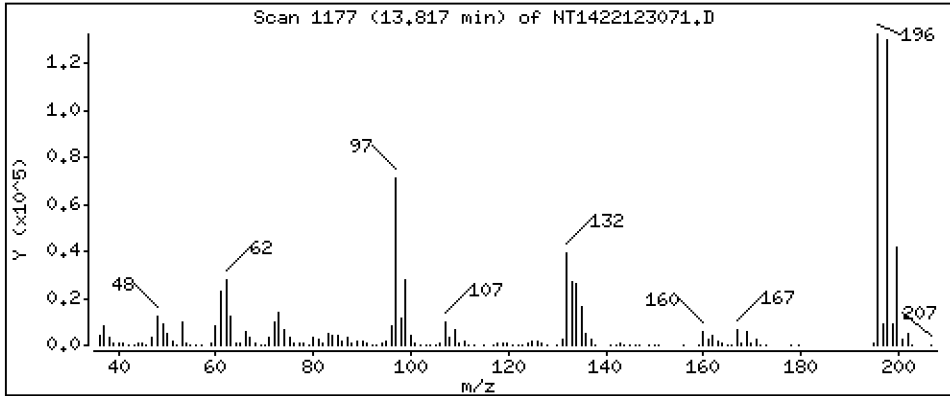
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 14,27 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

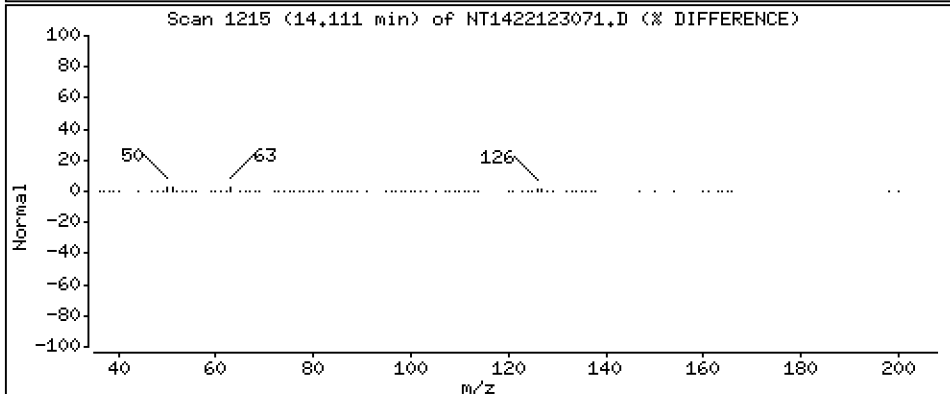
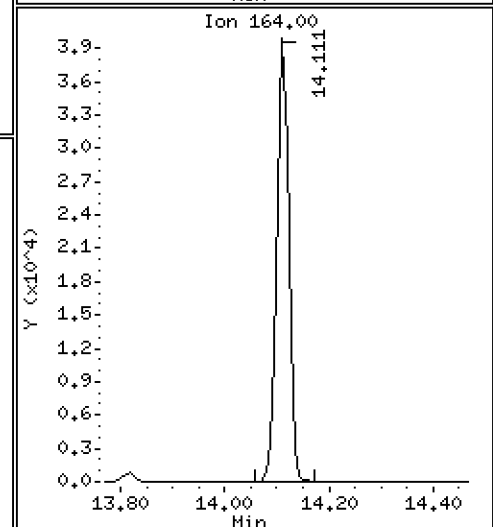
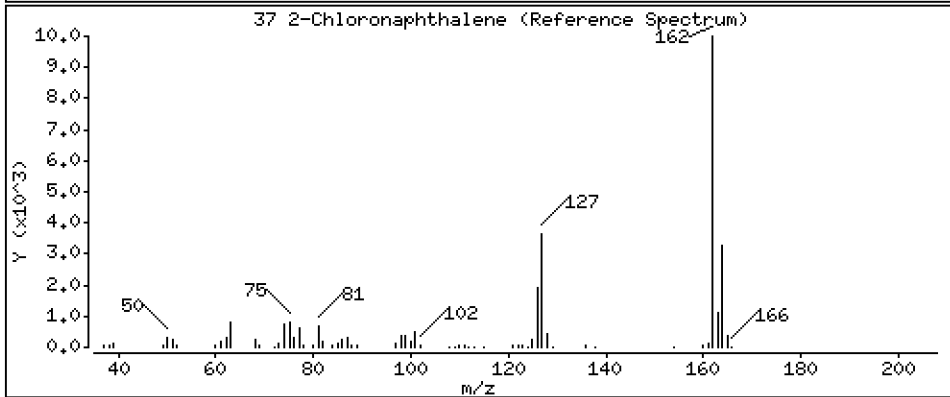
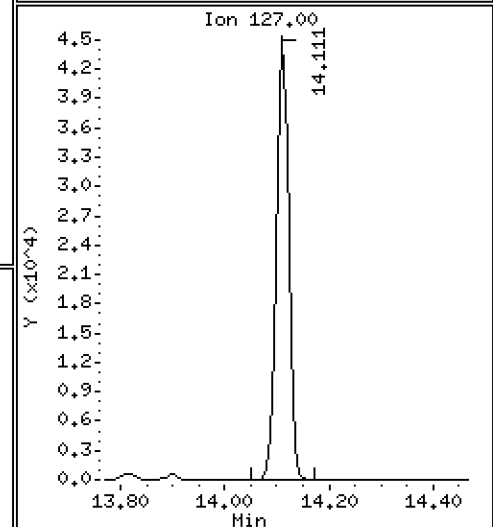
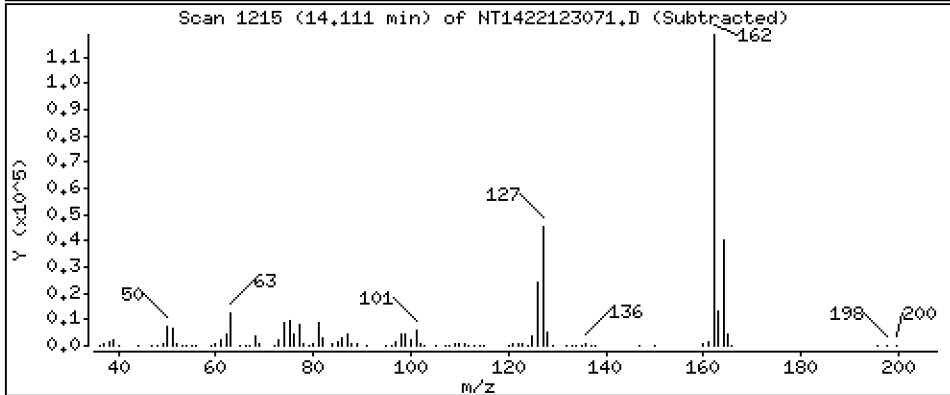
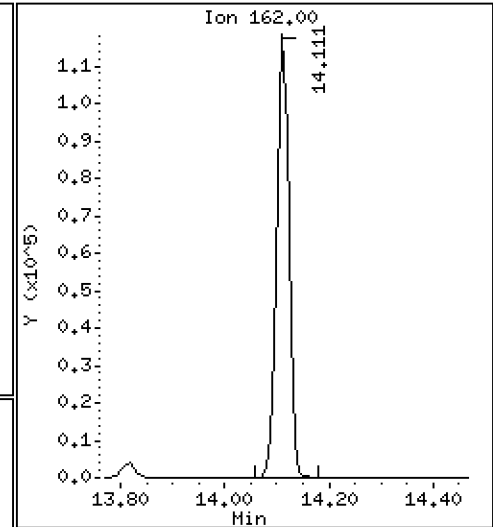
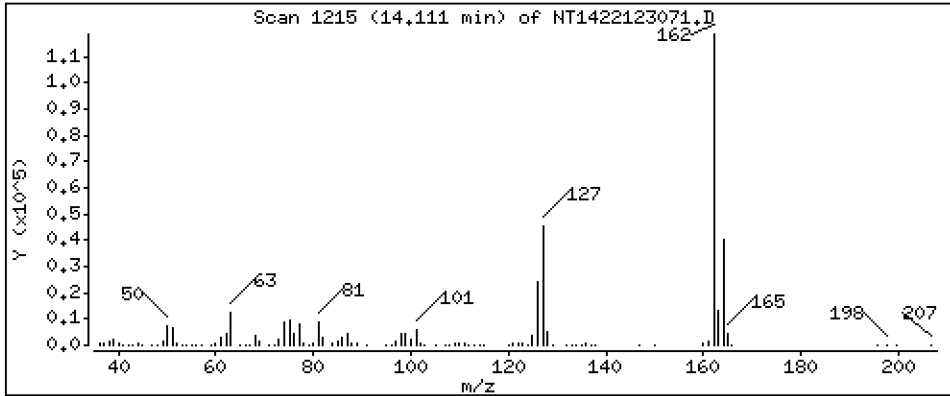
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 3,976 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

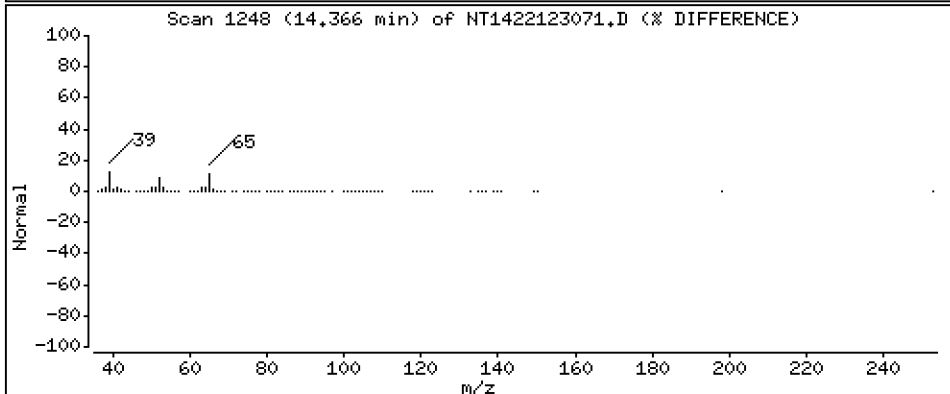
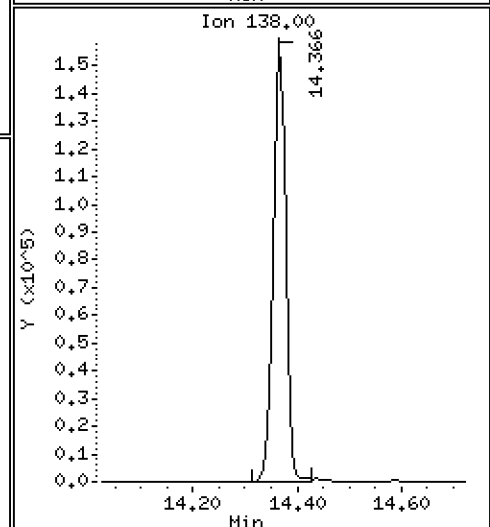
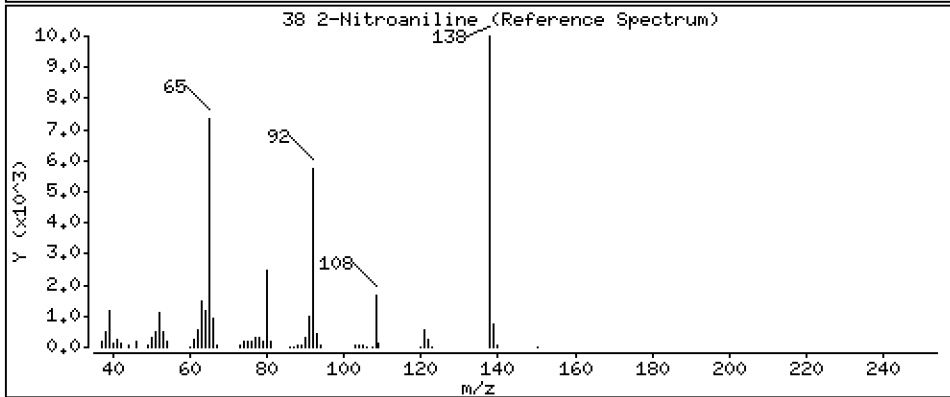
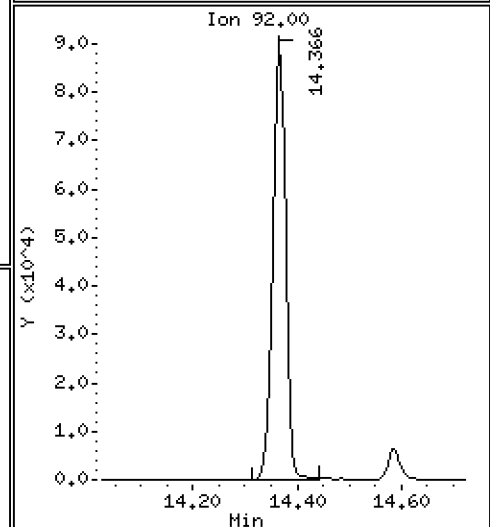
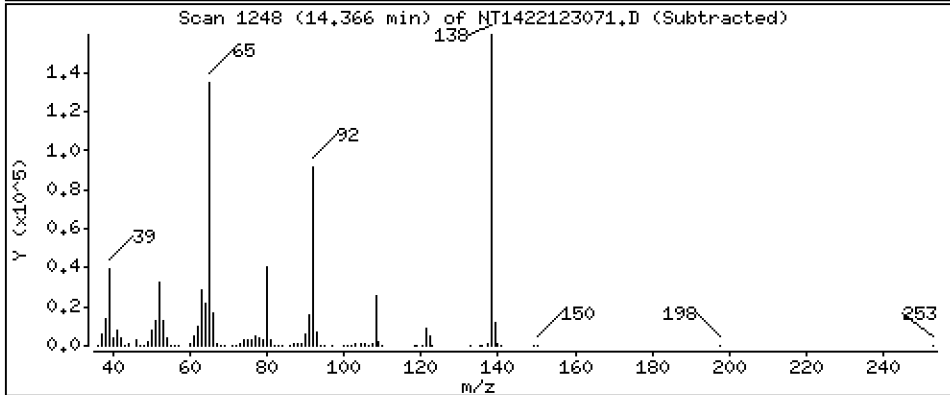
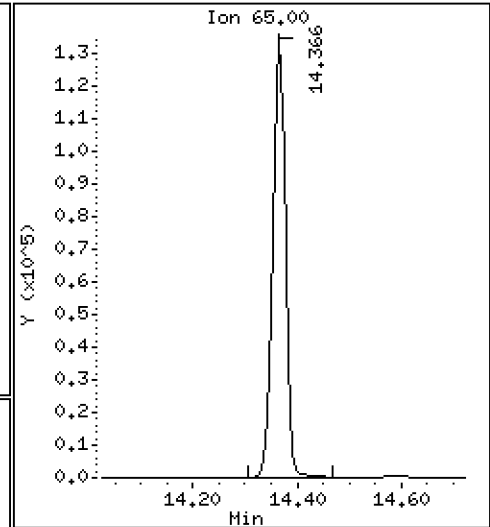
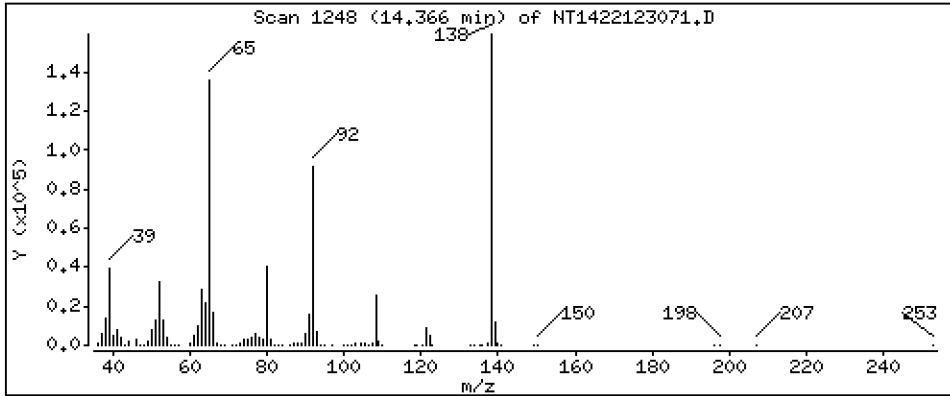
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 17,85 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

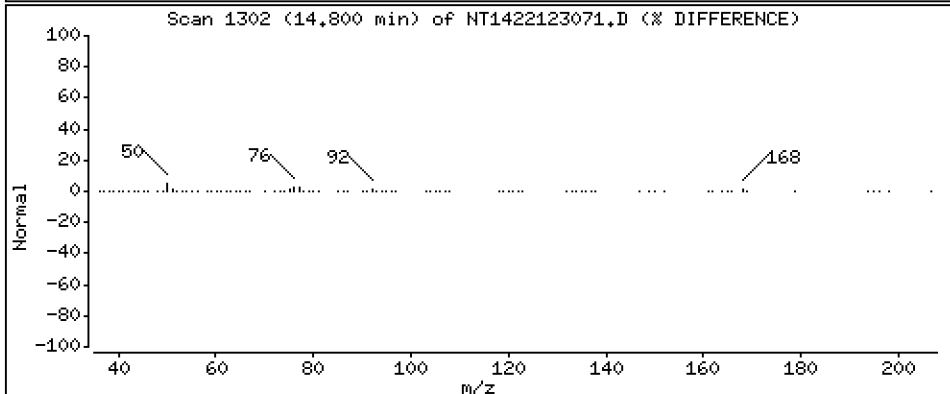
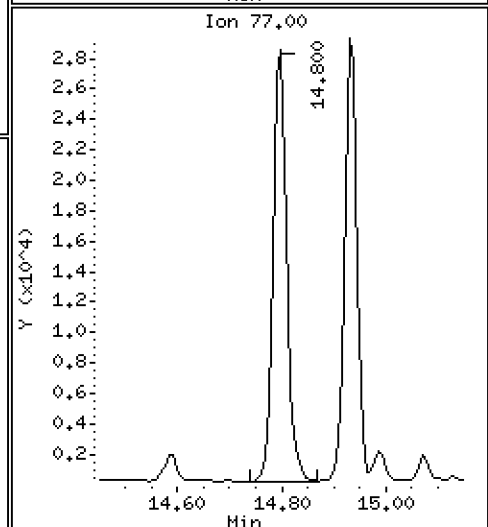
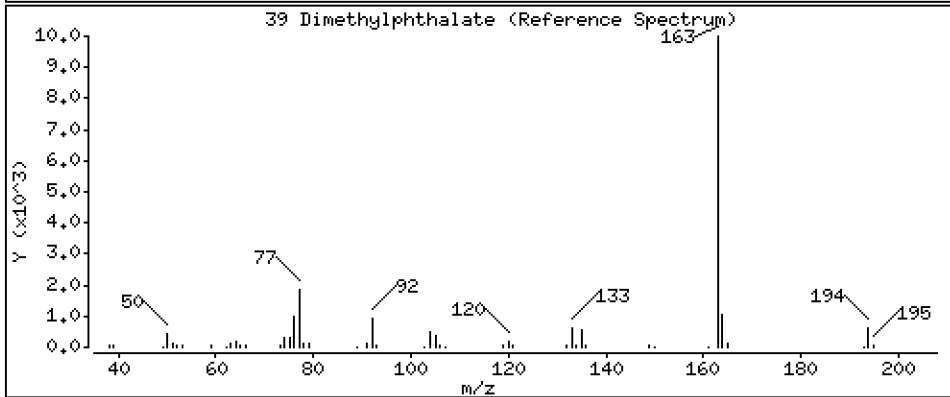
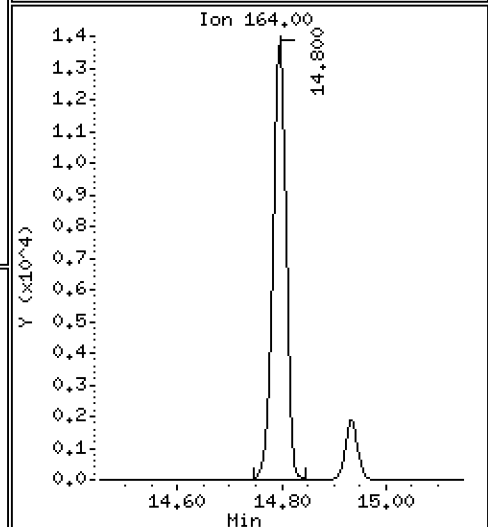
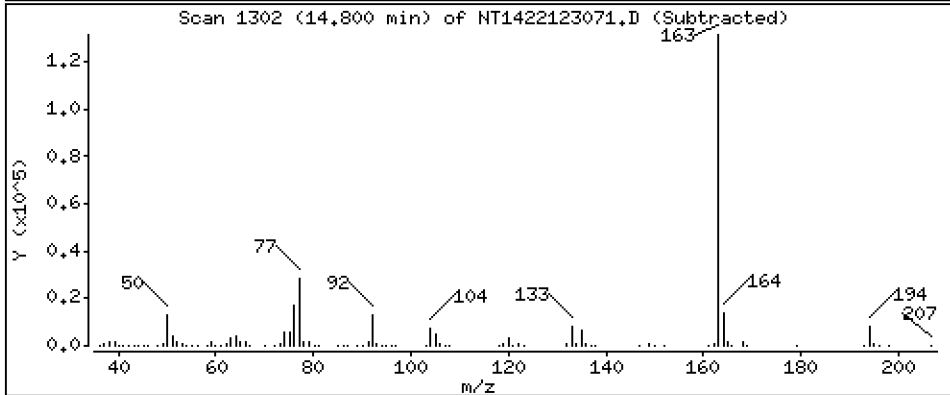
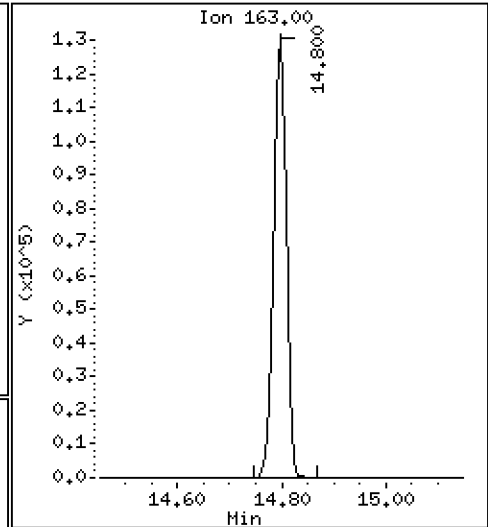
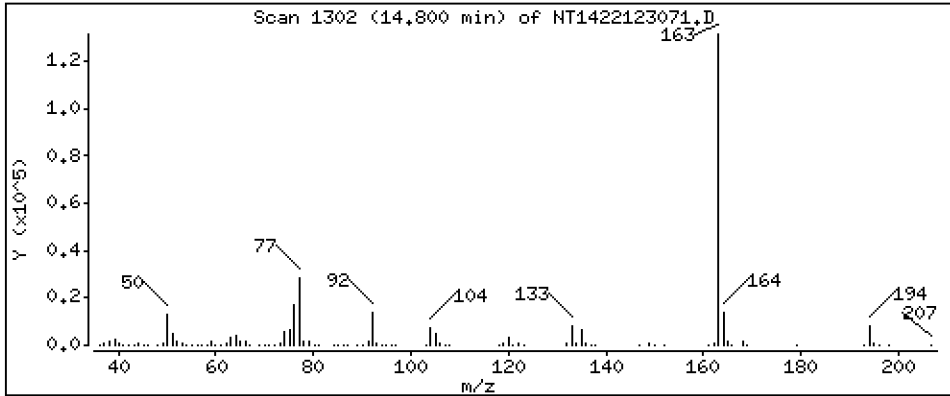
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,685 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

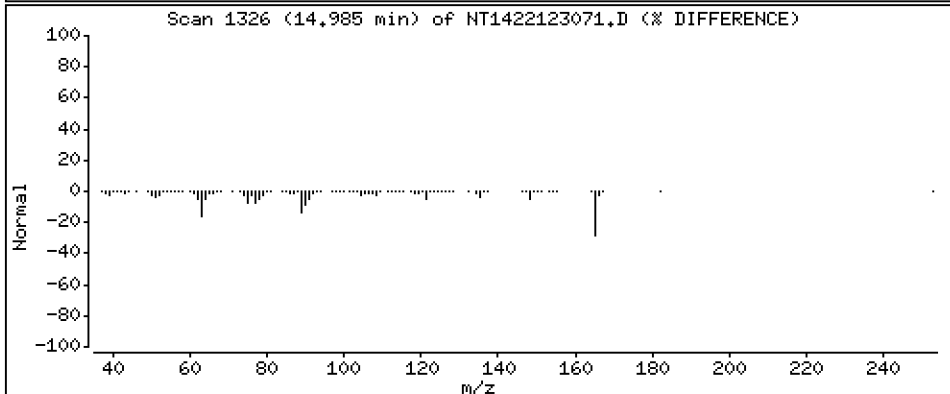
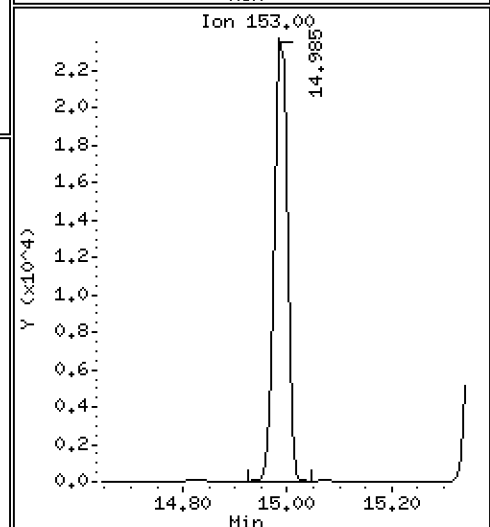
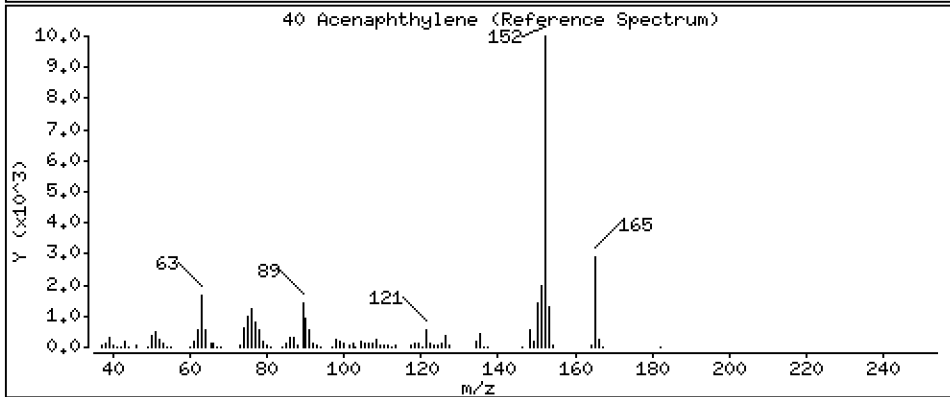
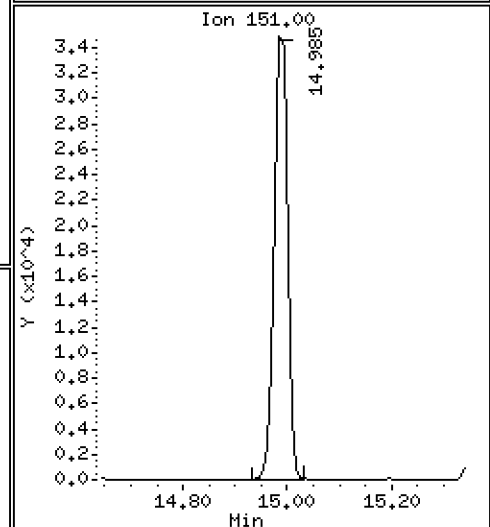
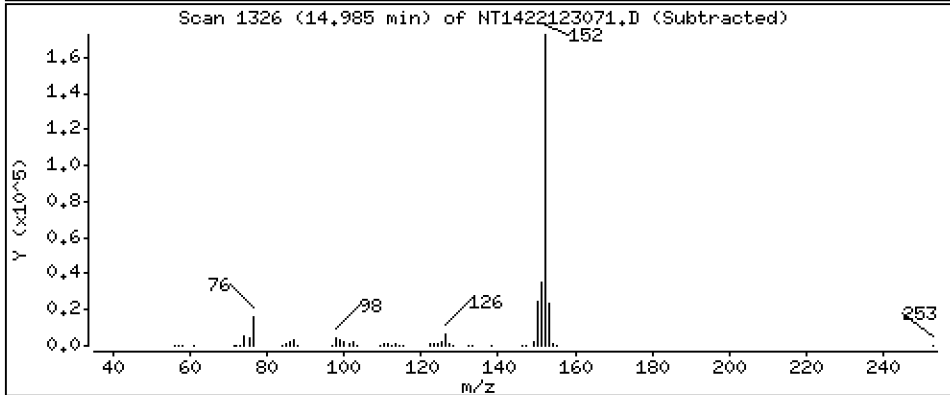
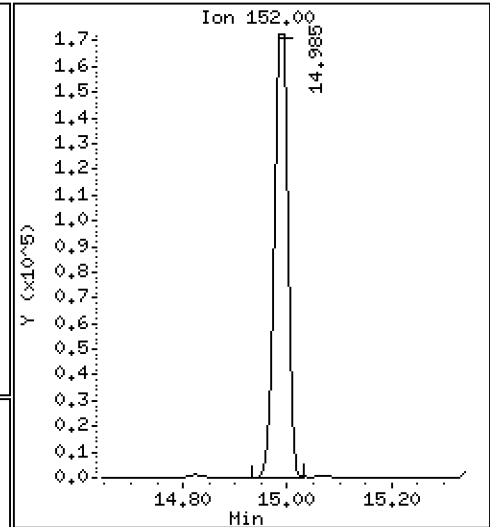
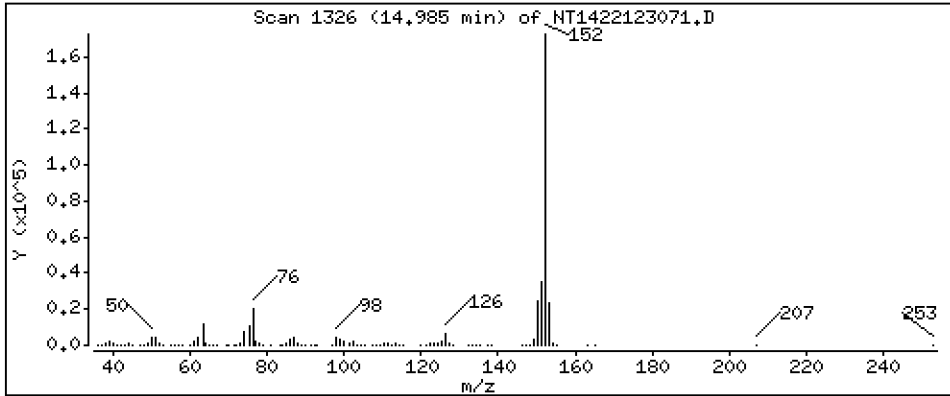
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,223 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

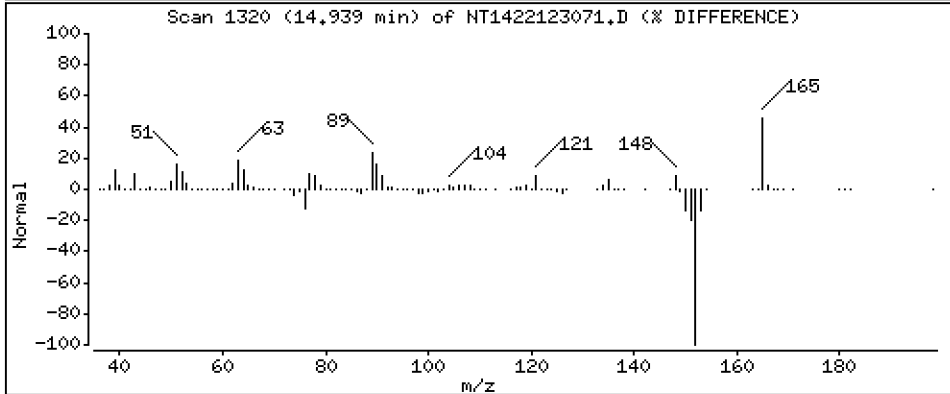
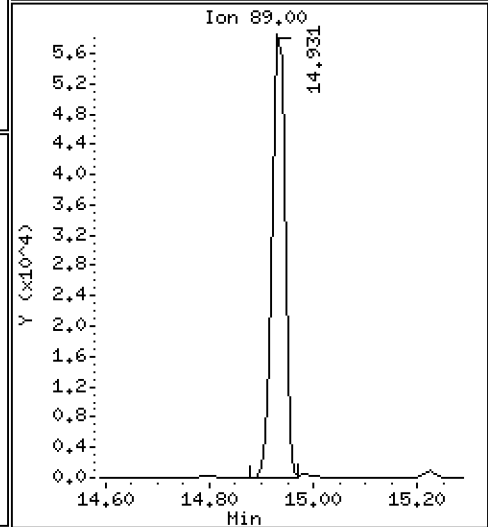
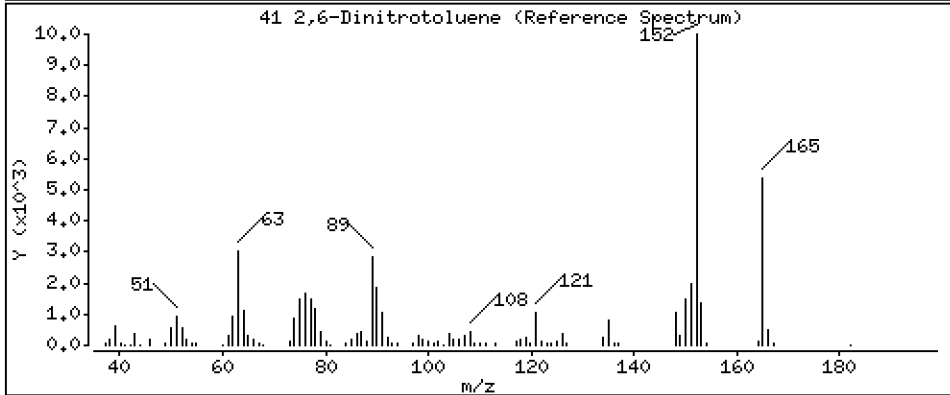
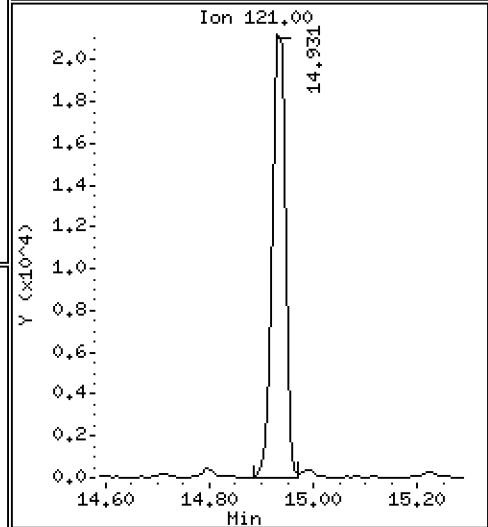
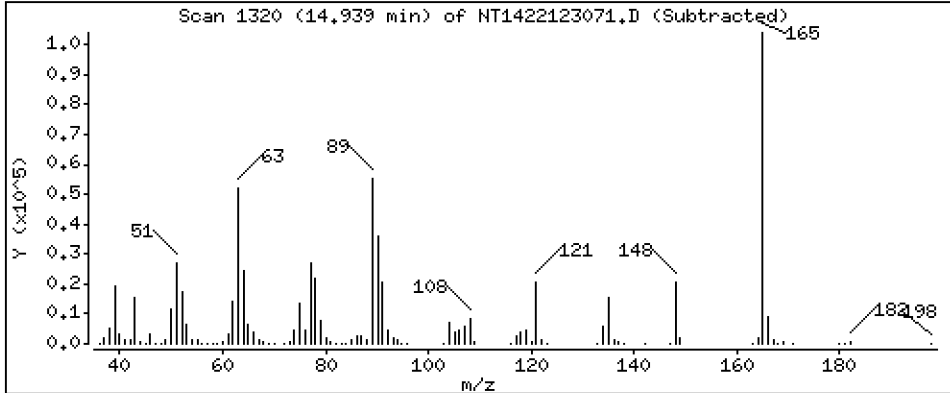
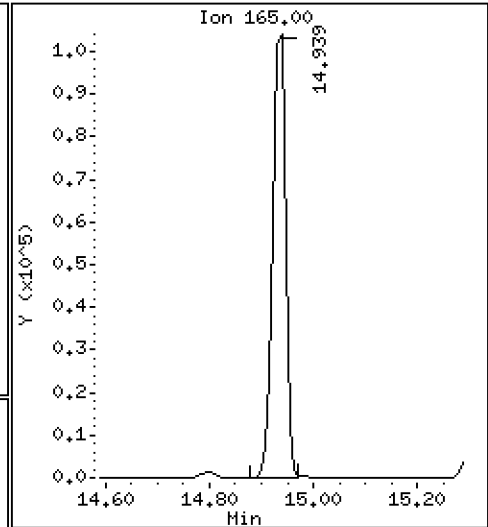
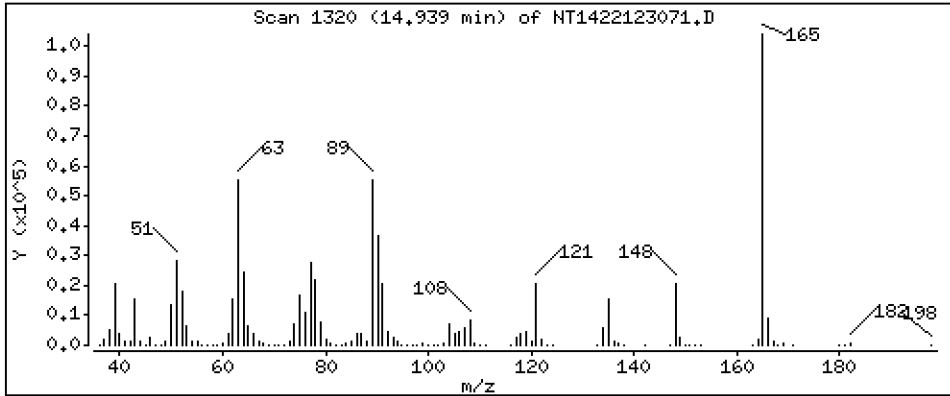
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 16,78 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

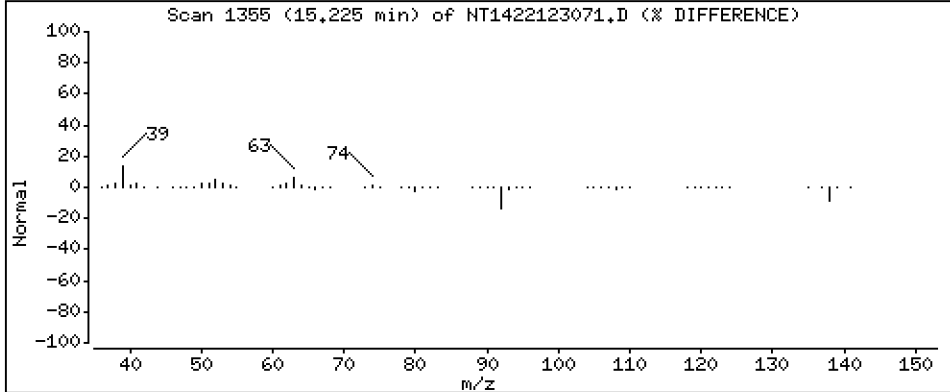
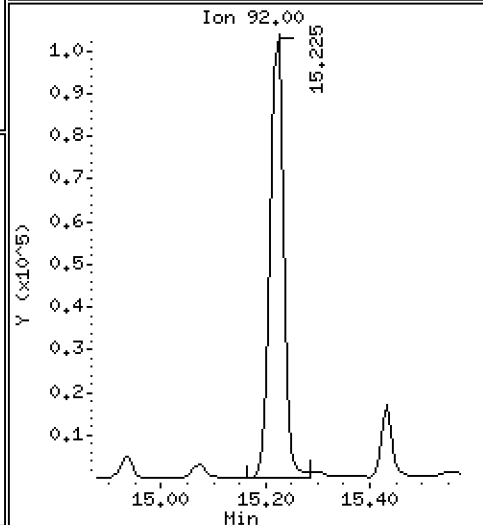
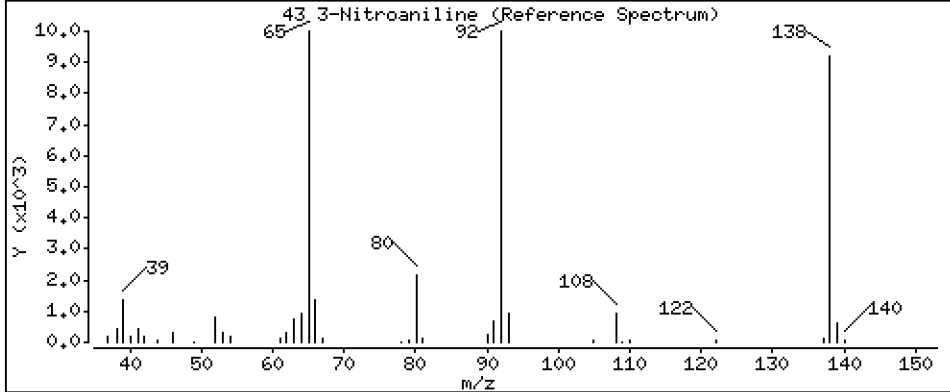
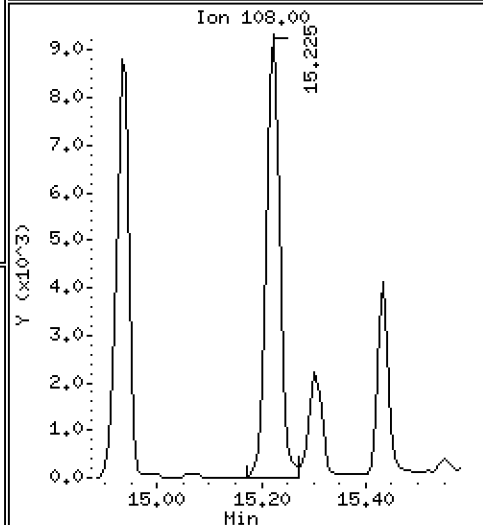
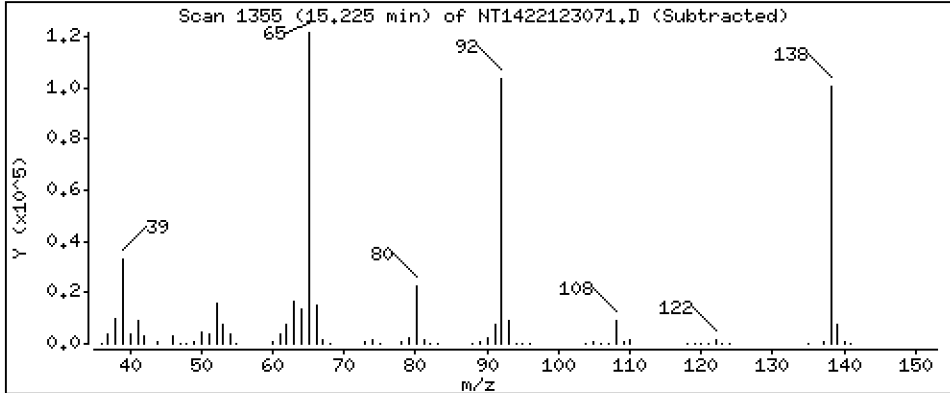
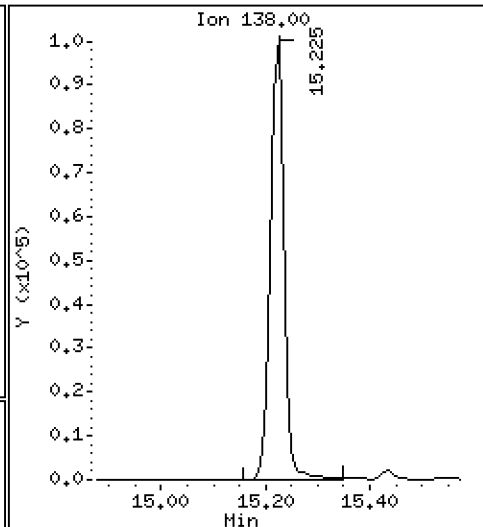
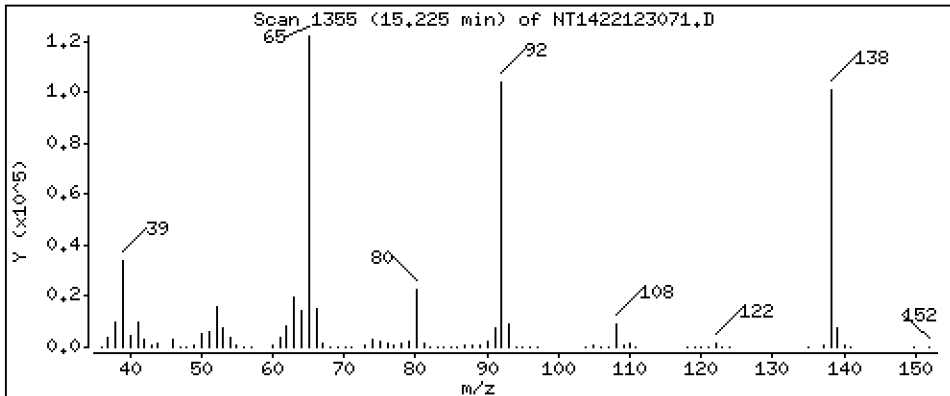
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 14,04 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

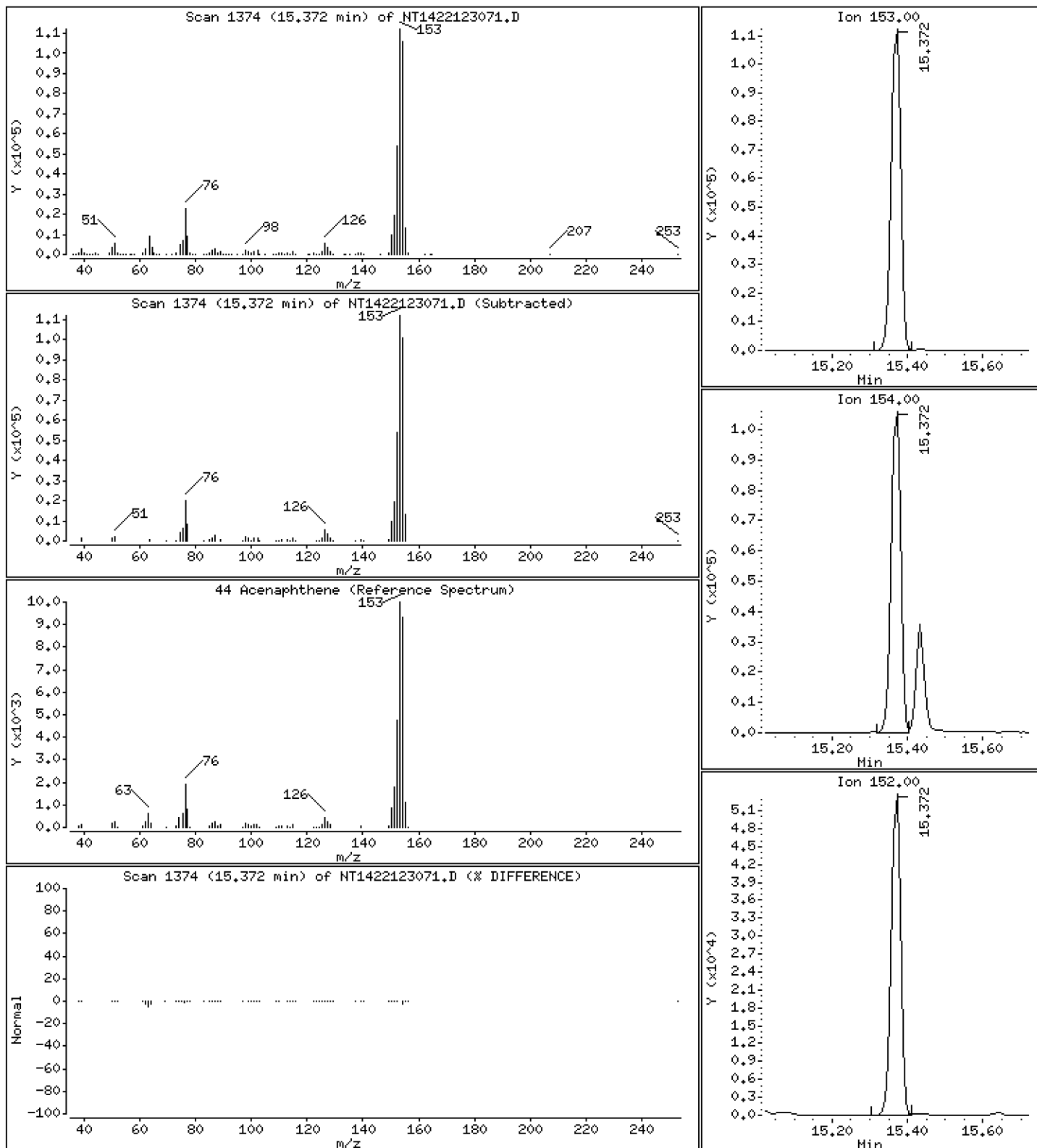
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,341 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

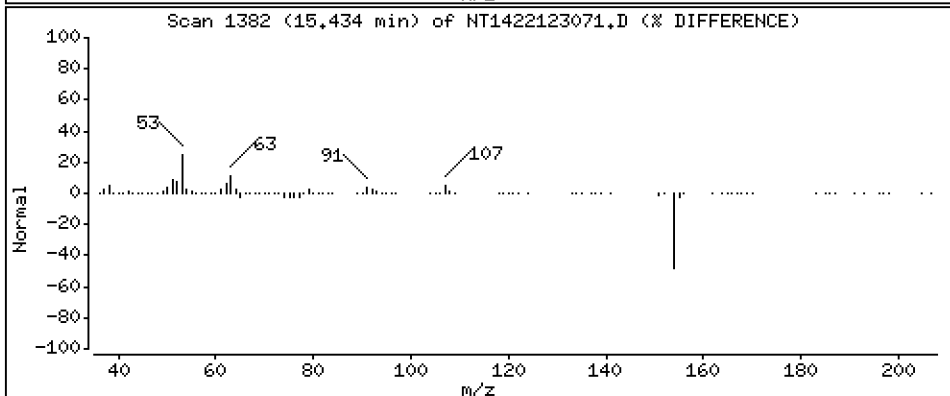
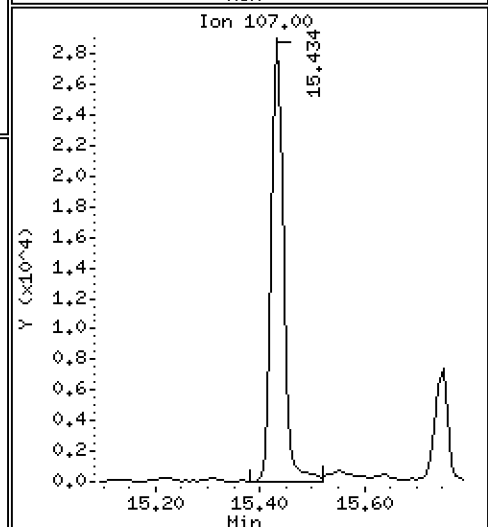
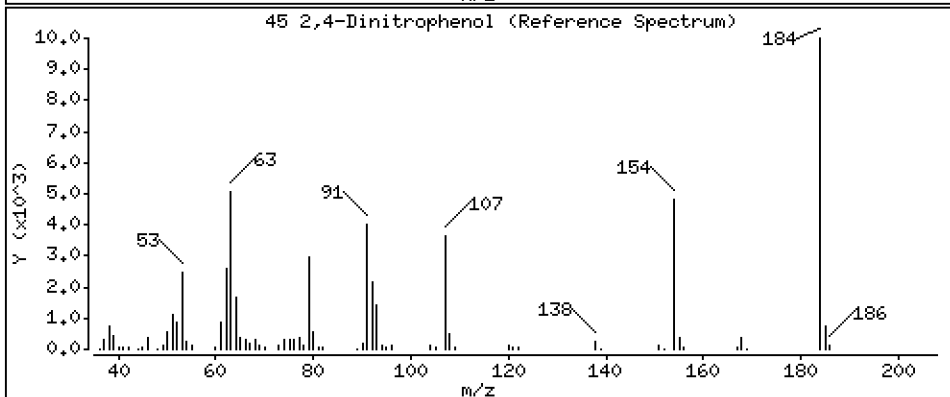
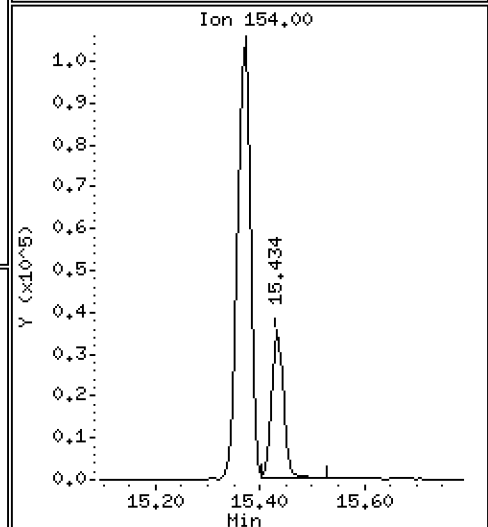
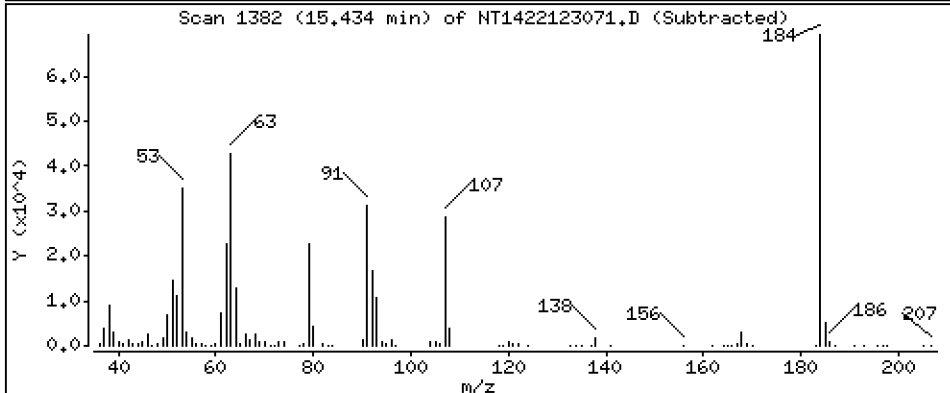
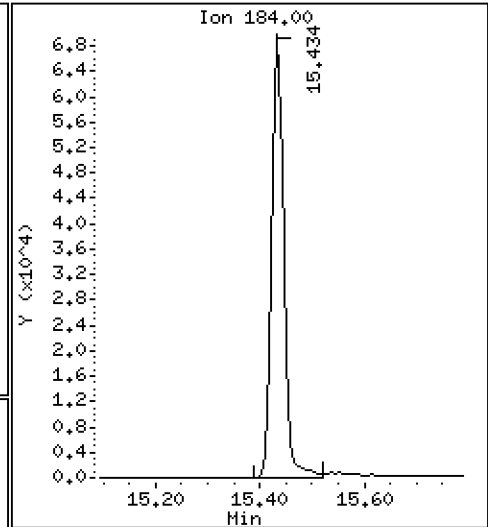
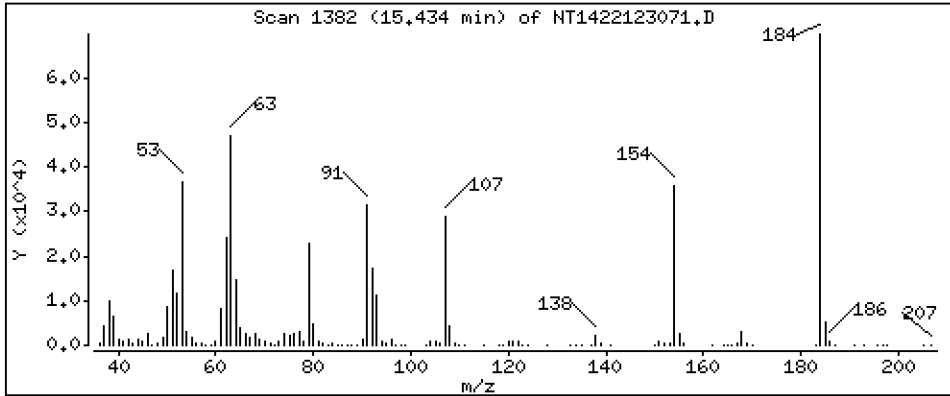
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 11,91 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

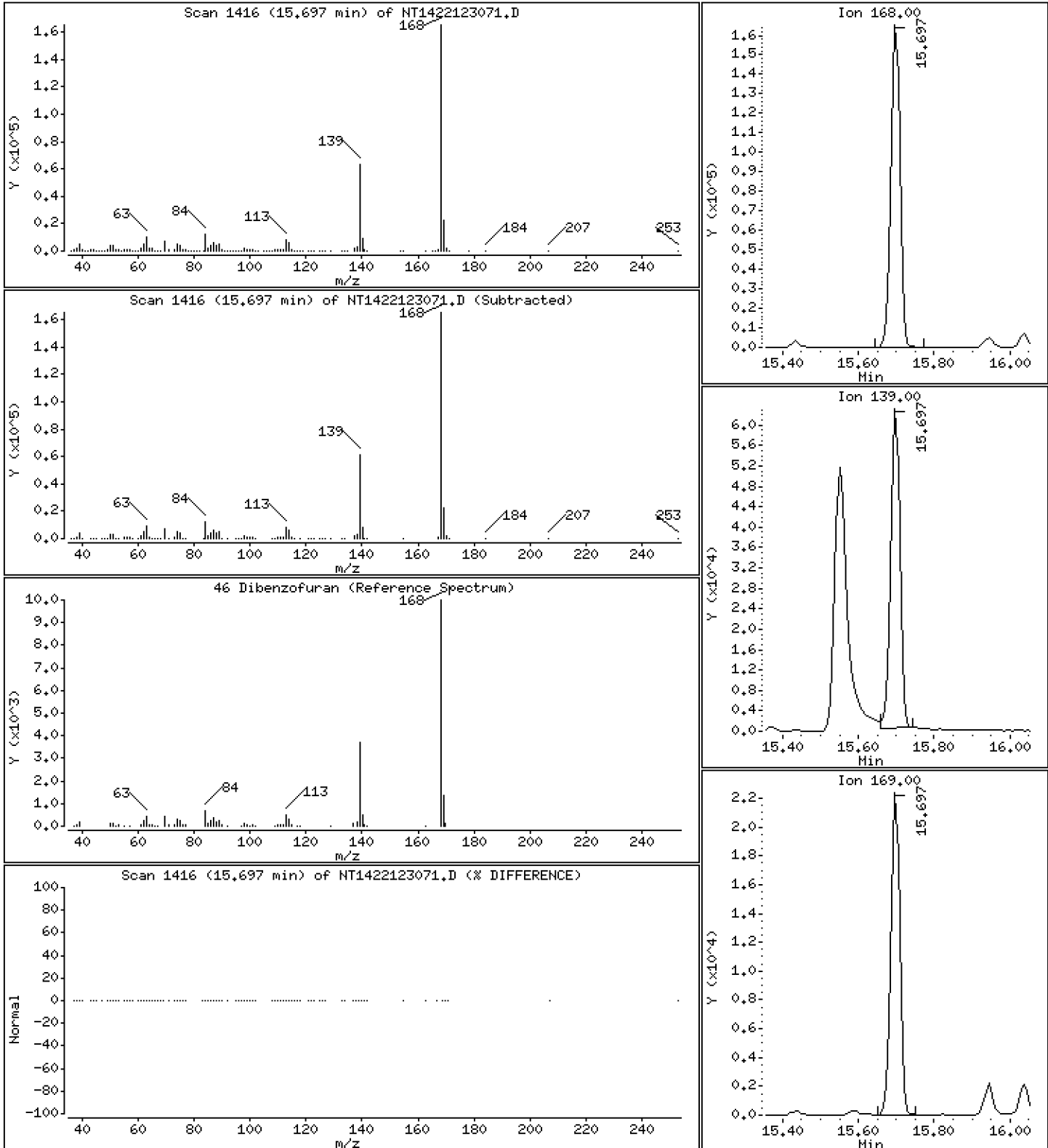
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,059 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

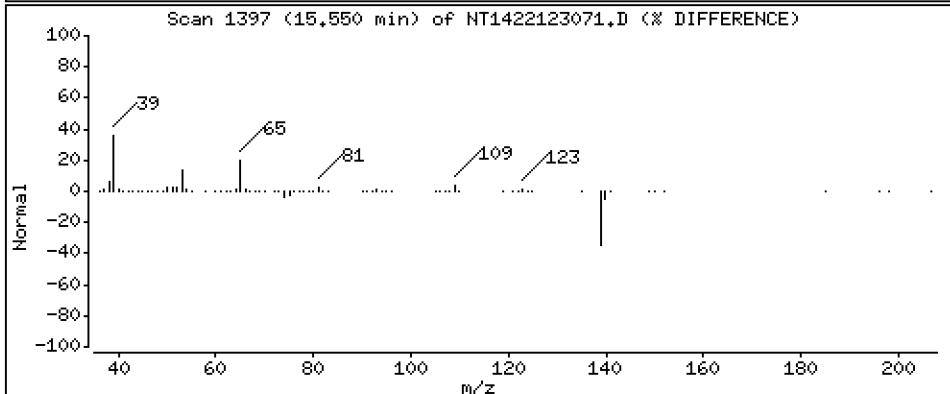
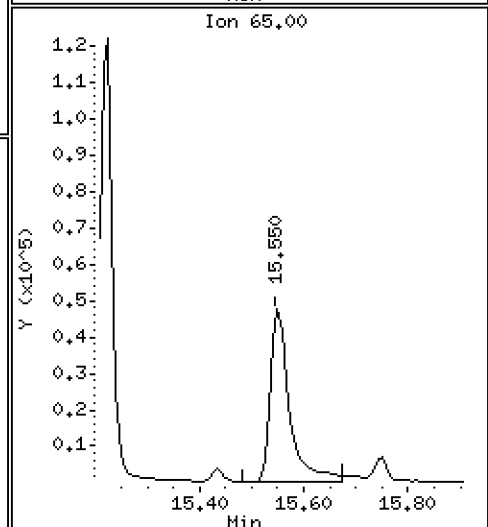
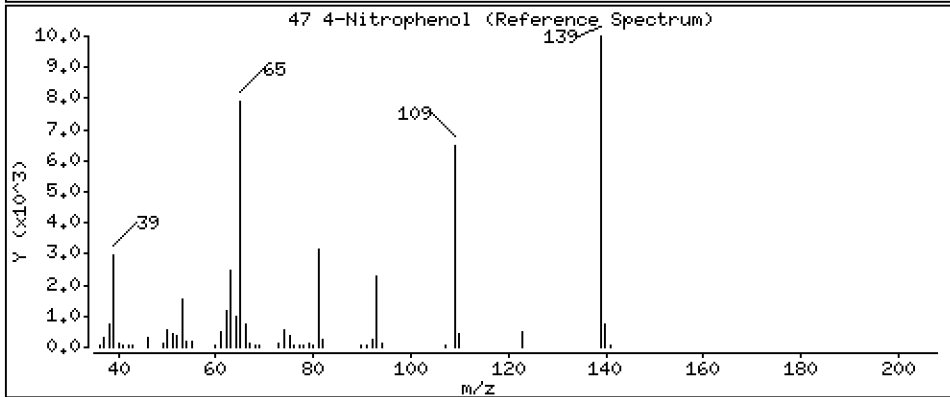
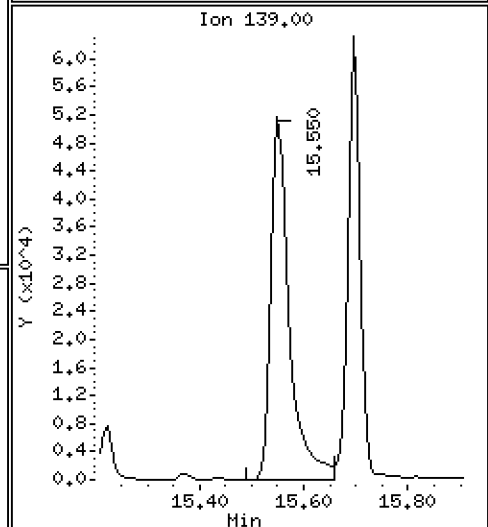
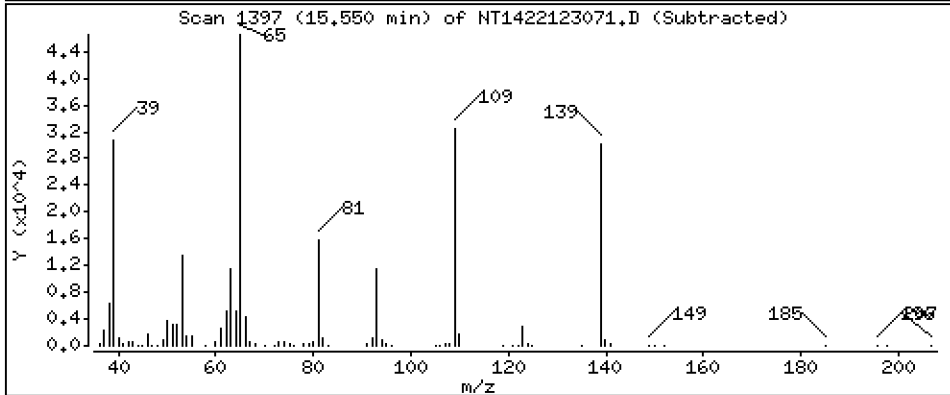
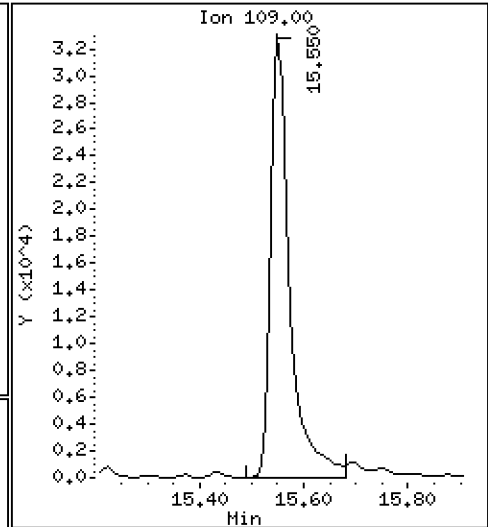
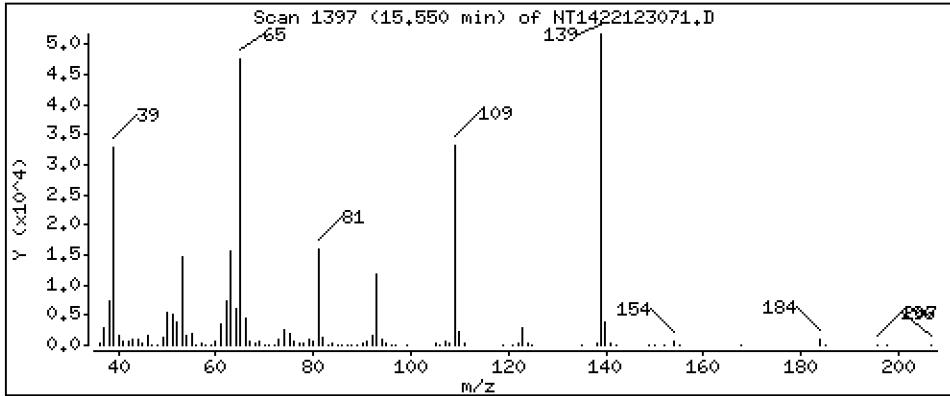
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 13,38 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

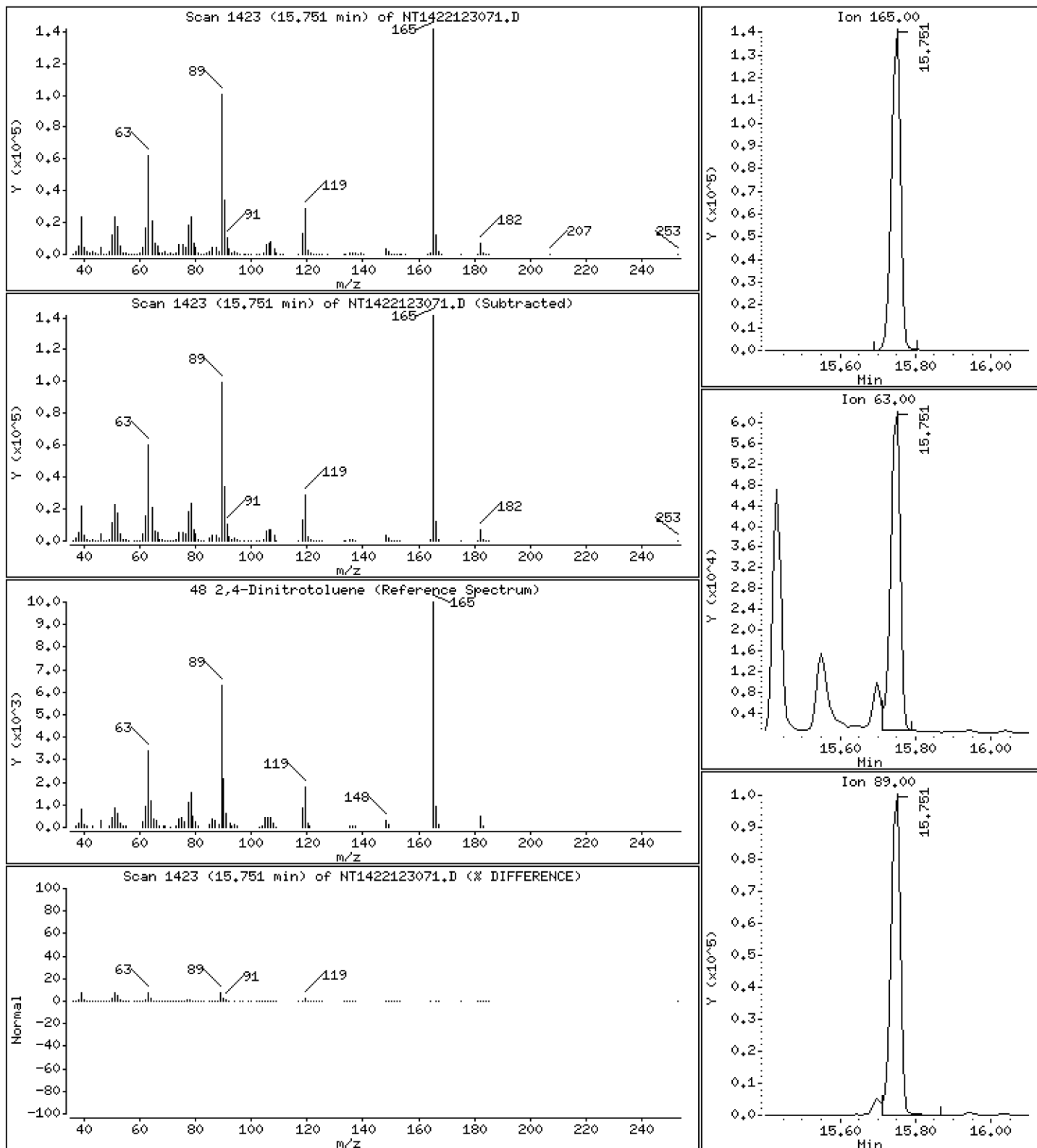
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 15,86 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

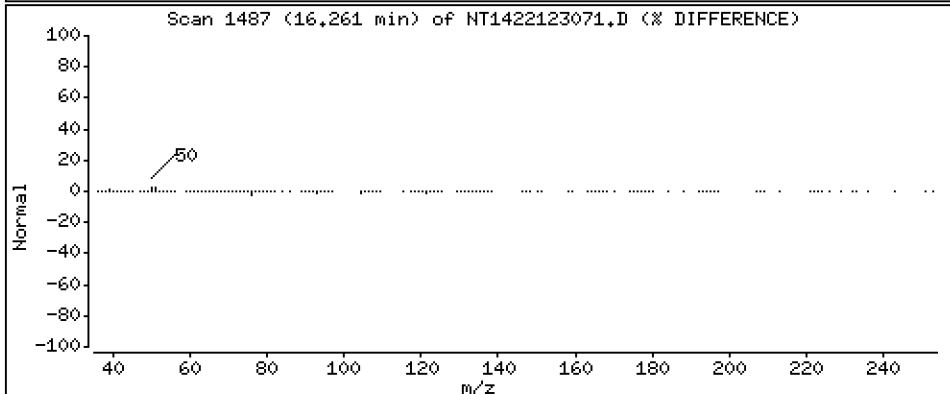
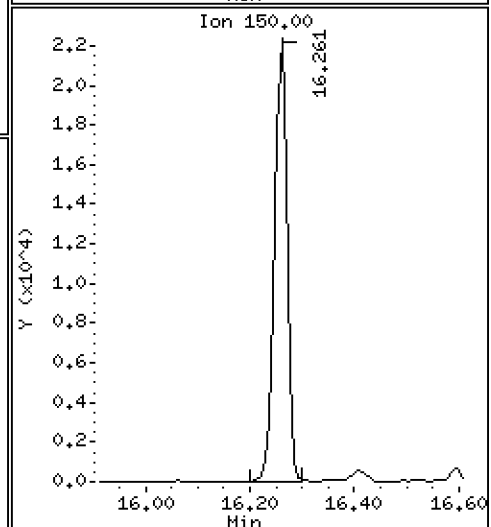
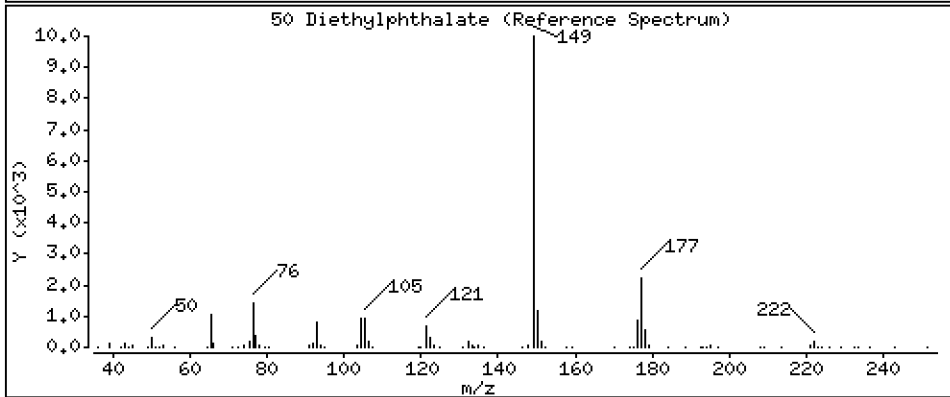
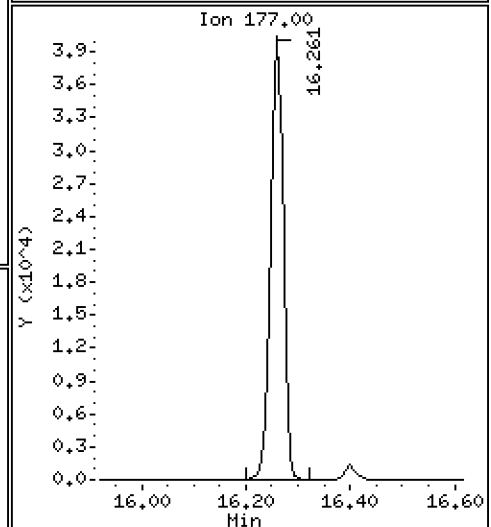
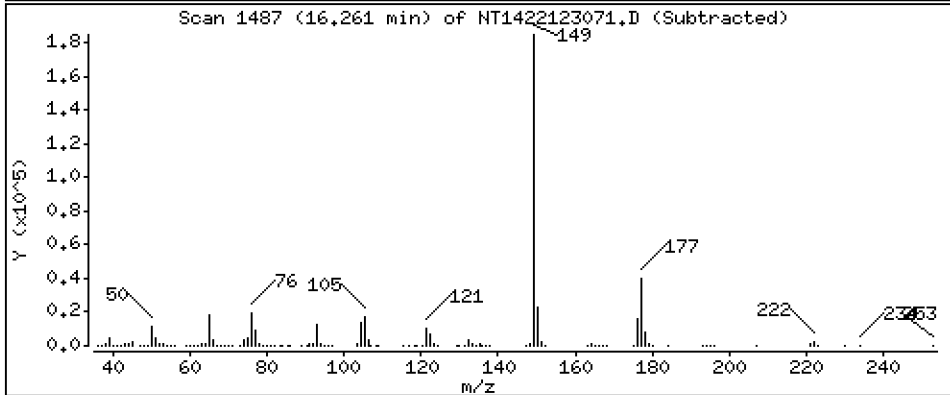
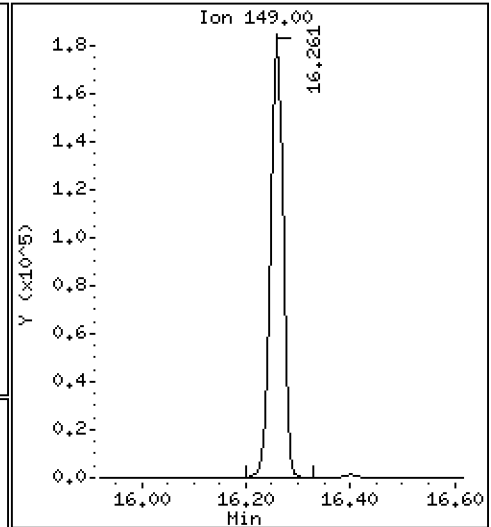
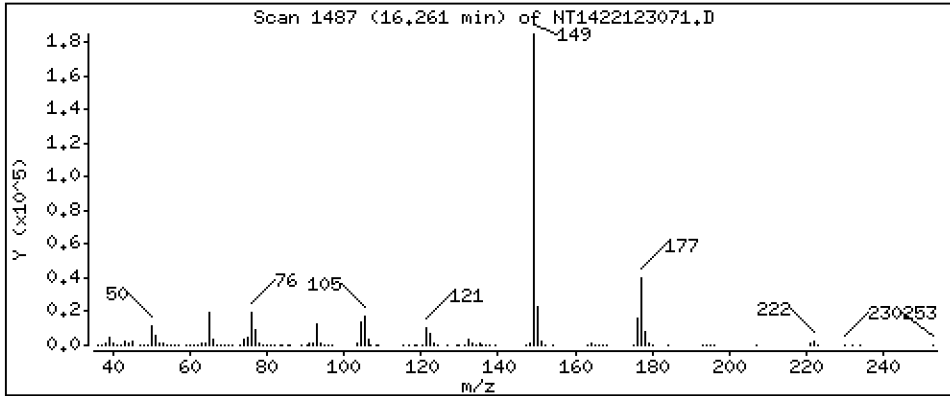
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,394 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

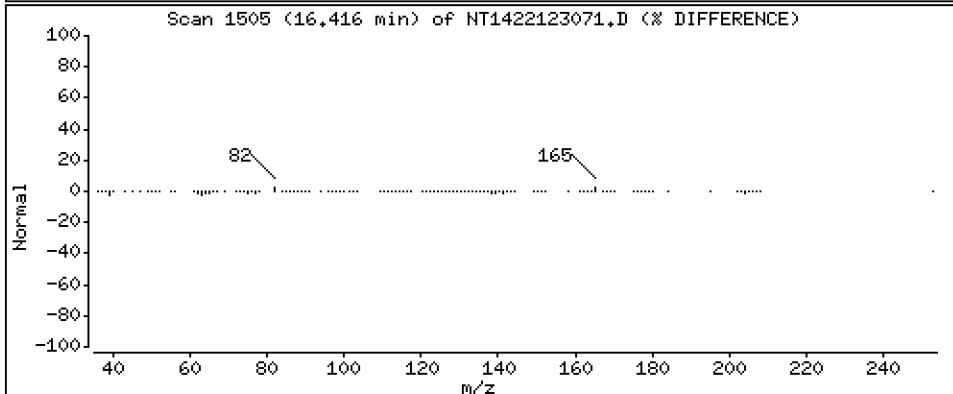
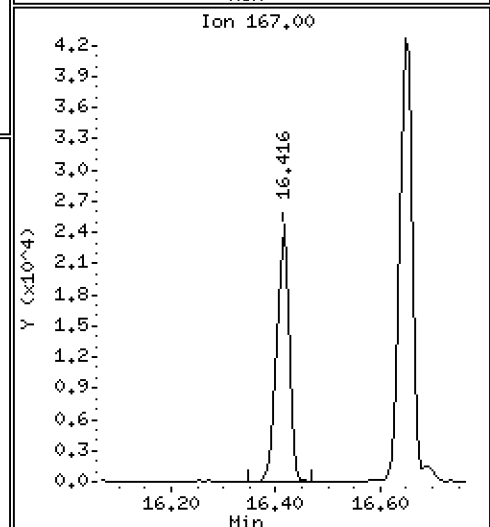
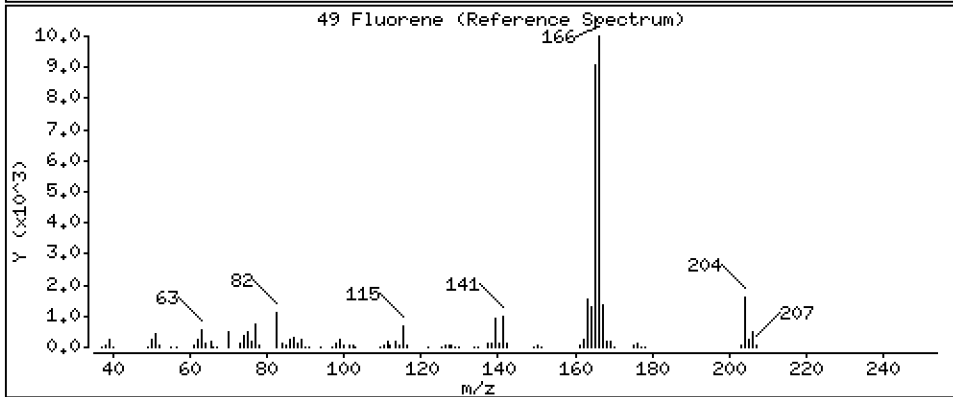
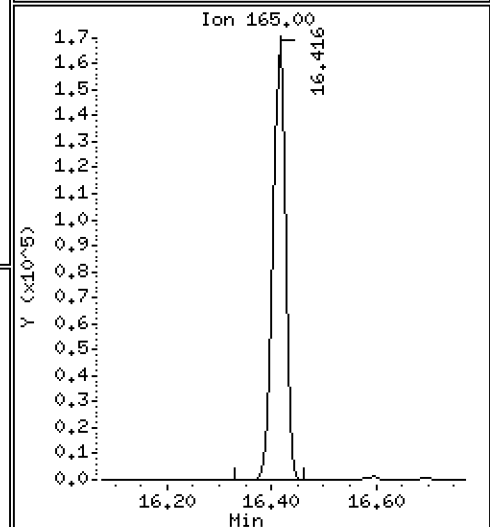
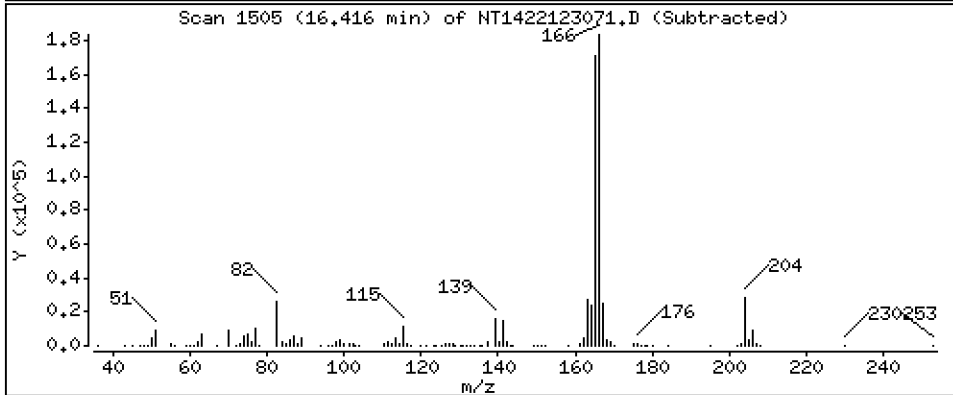
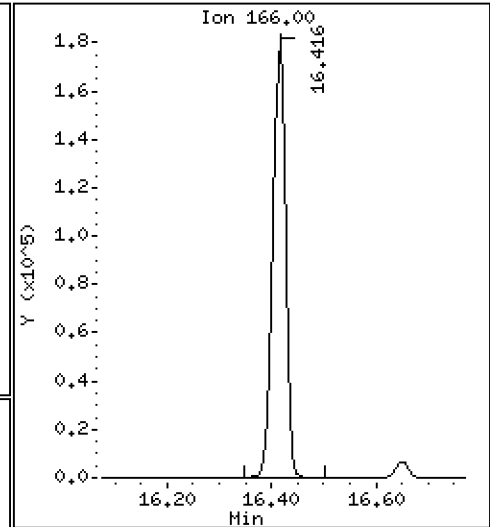
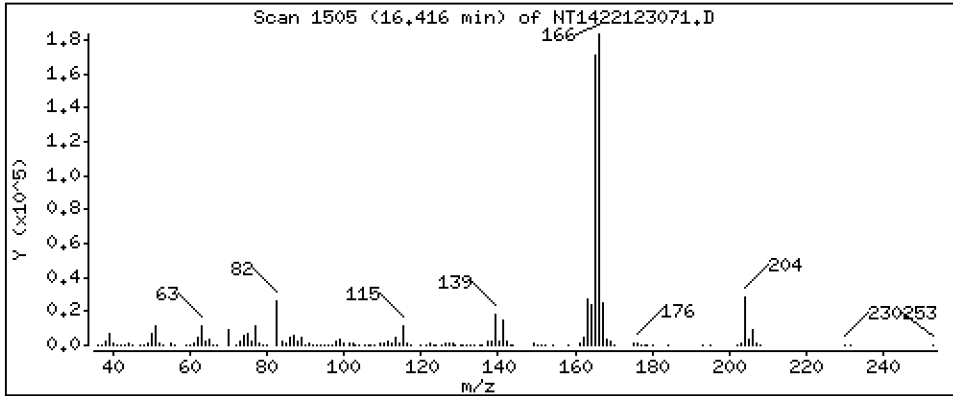
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,702 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

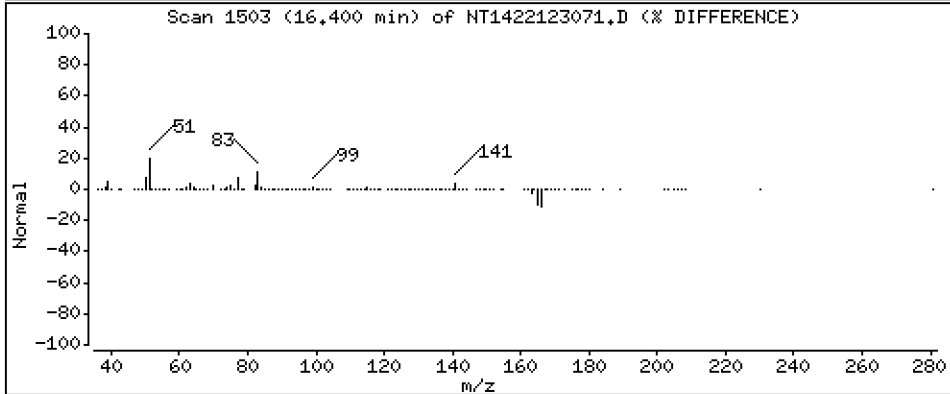
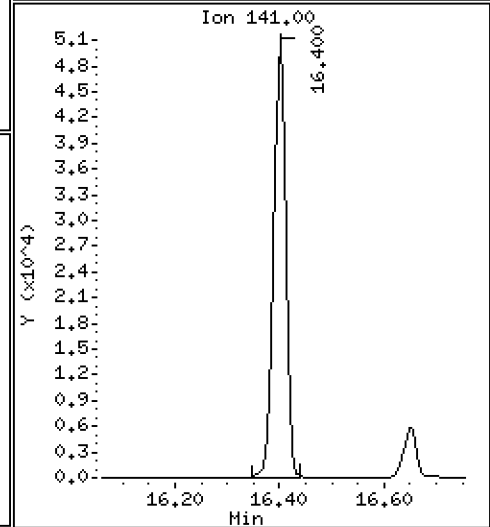
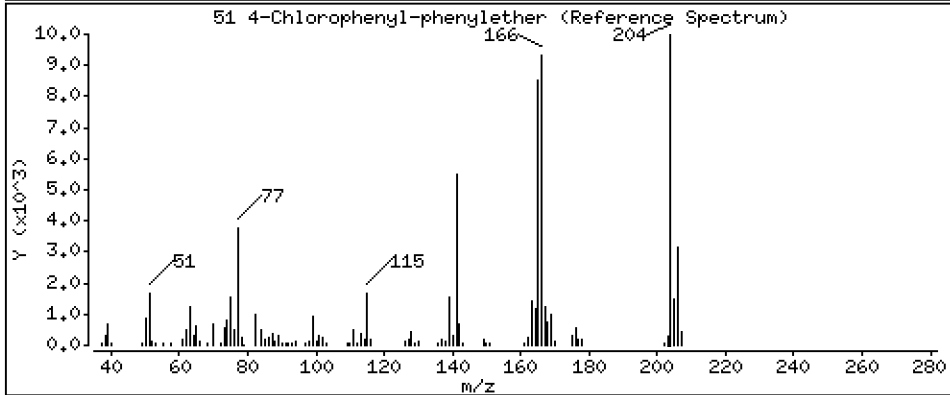
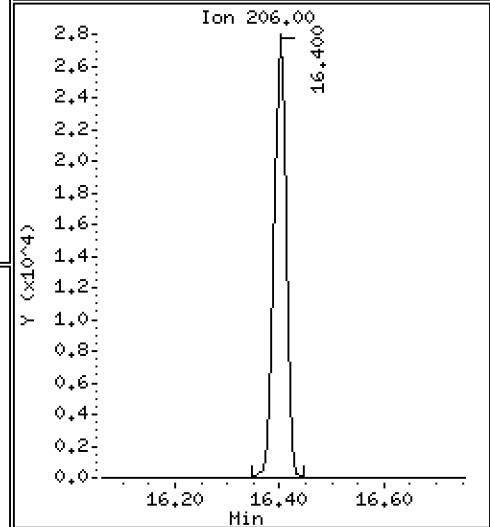
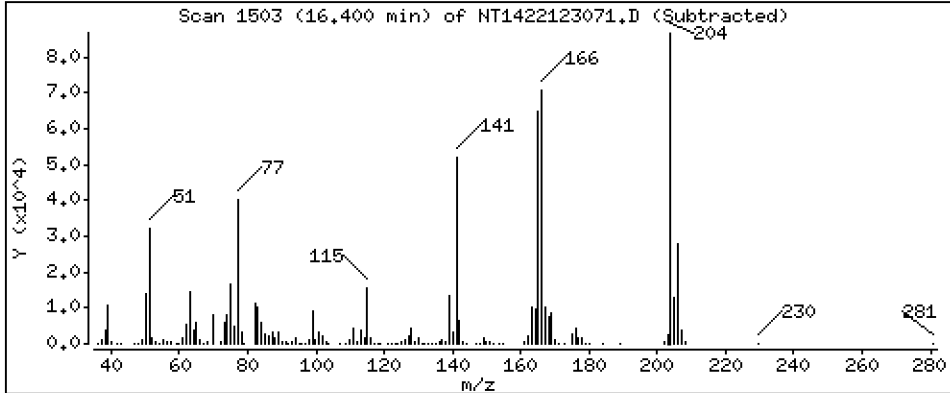
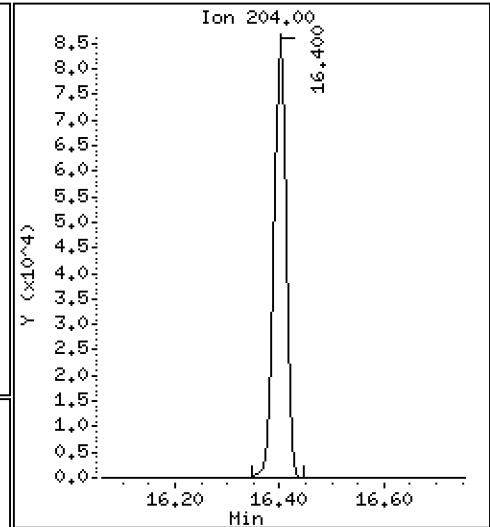
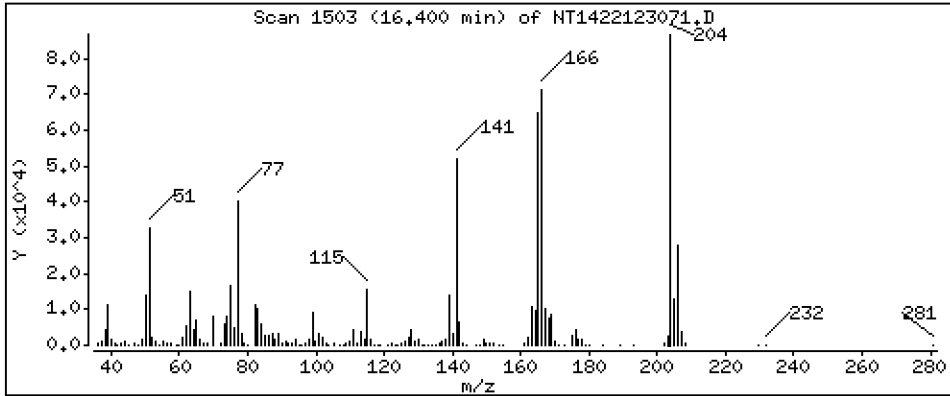
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,602 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

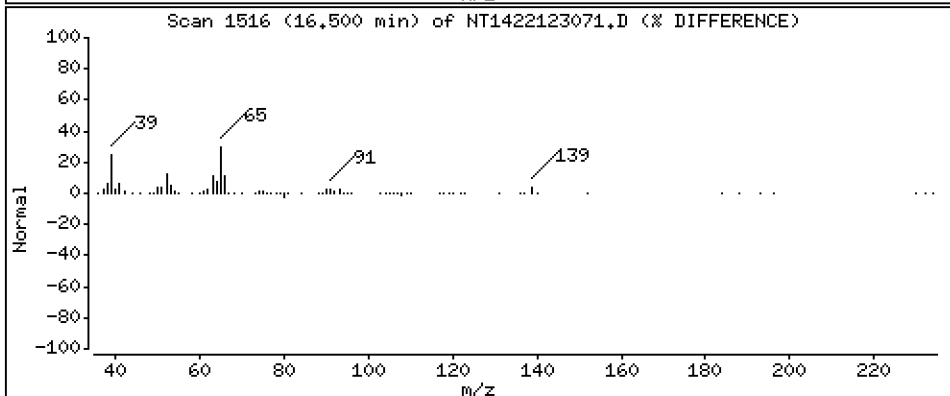
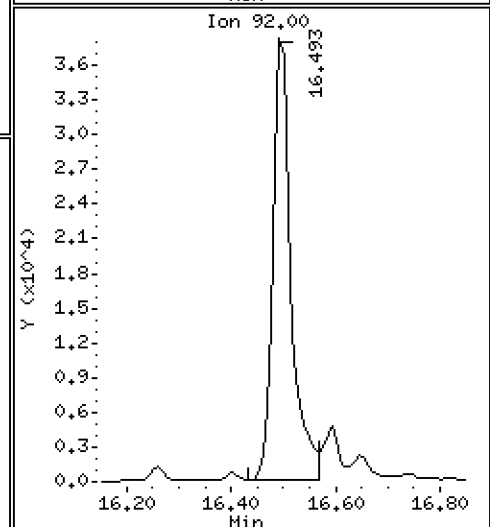
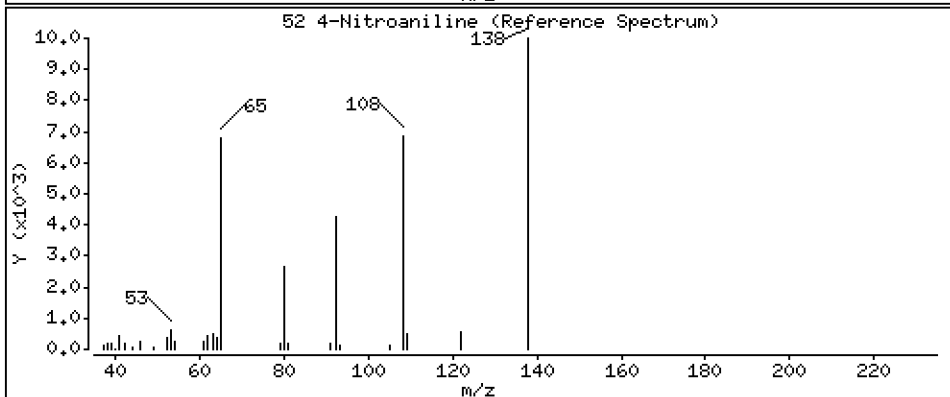
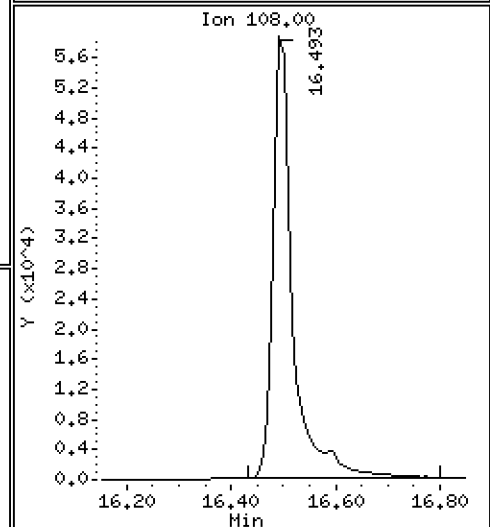
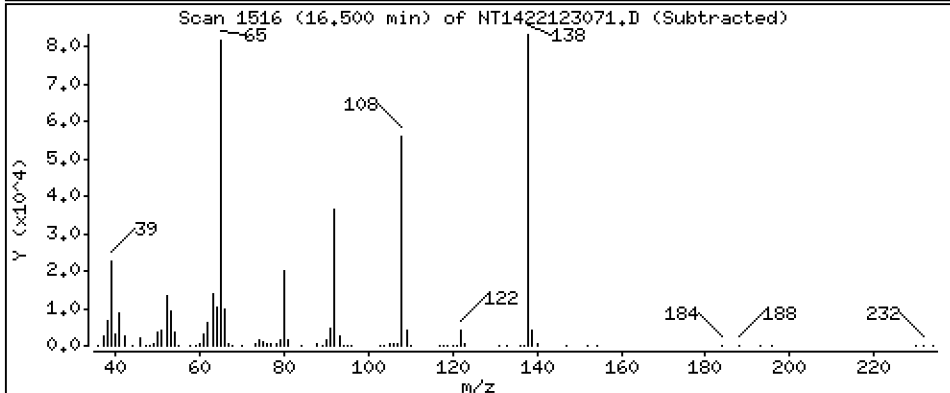
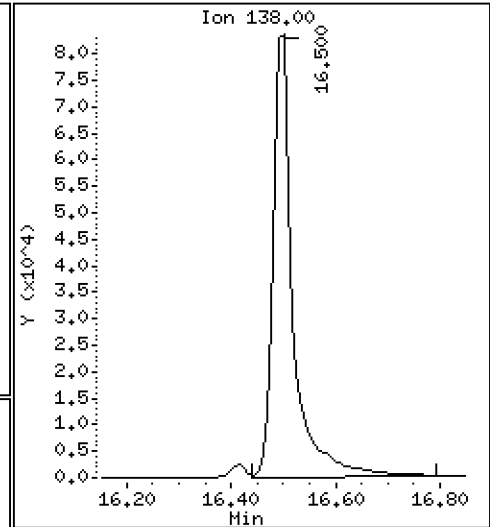
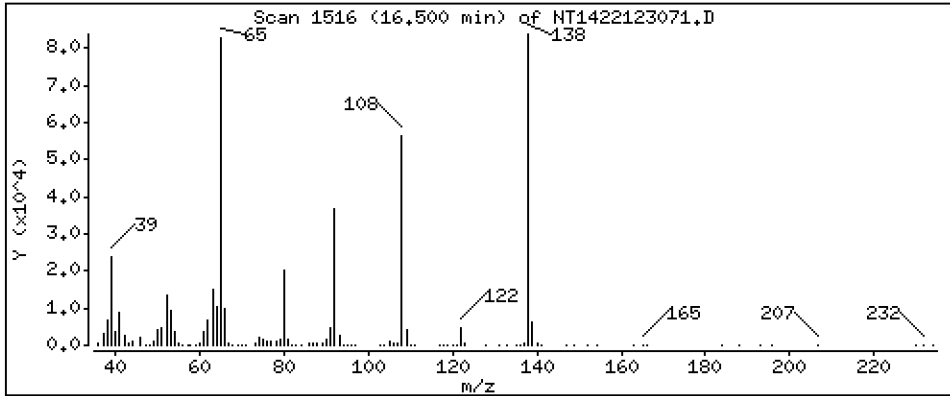
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

52 4-Nitroaniline

Concentration: 13.96 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

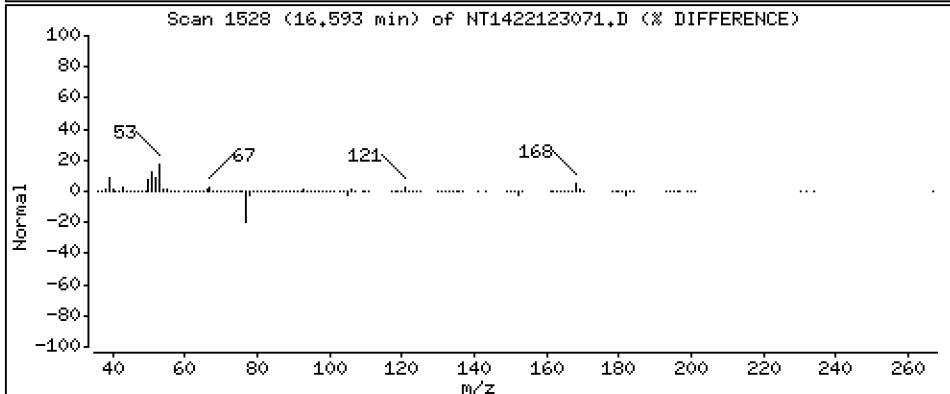
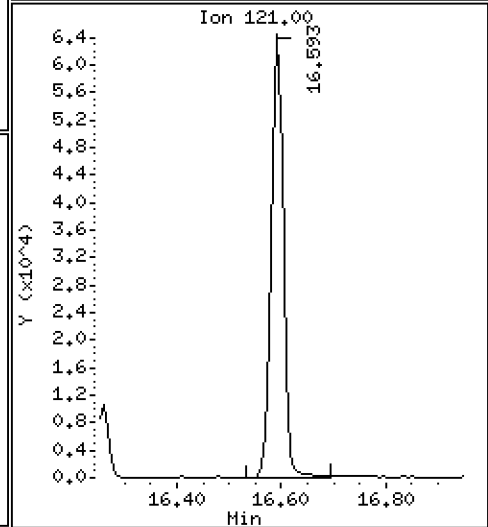
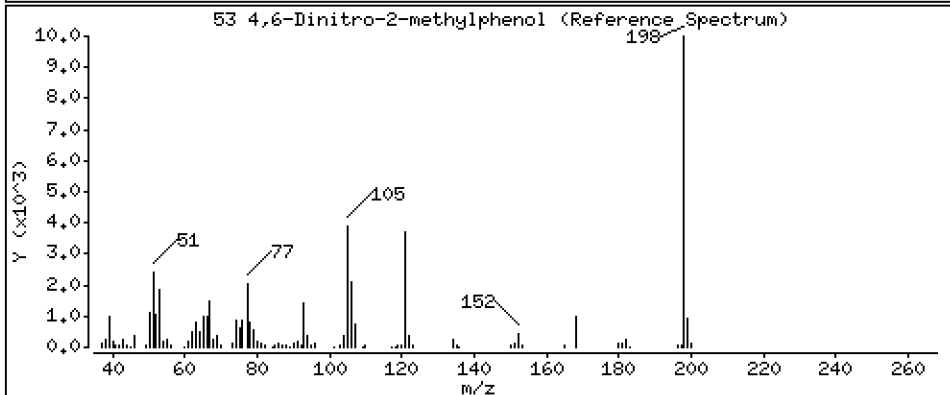
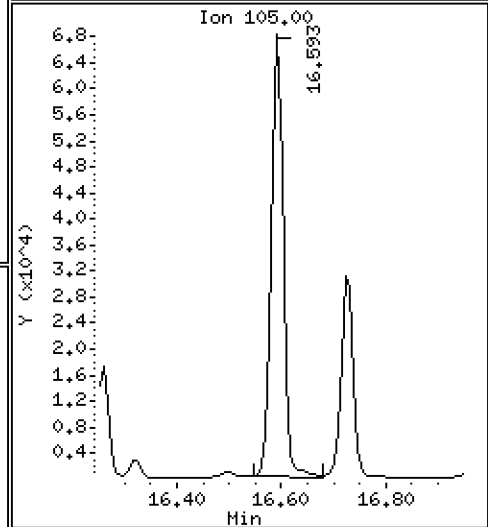
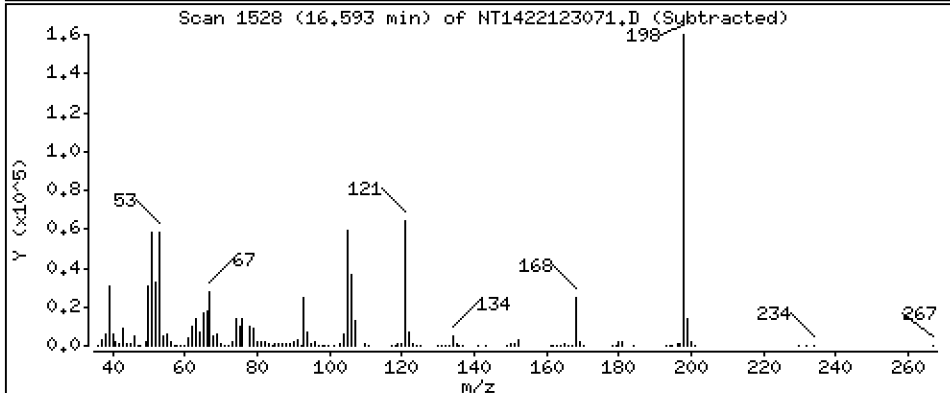
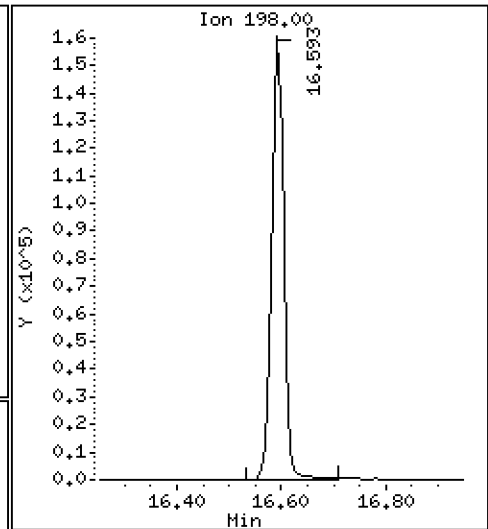
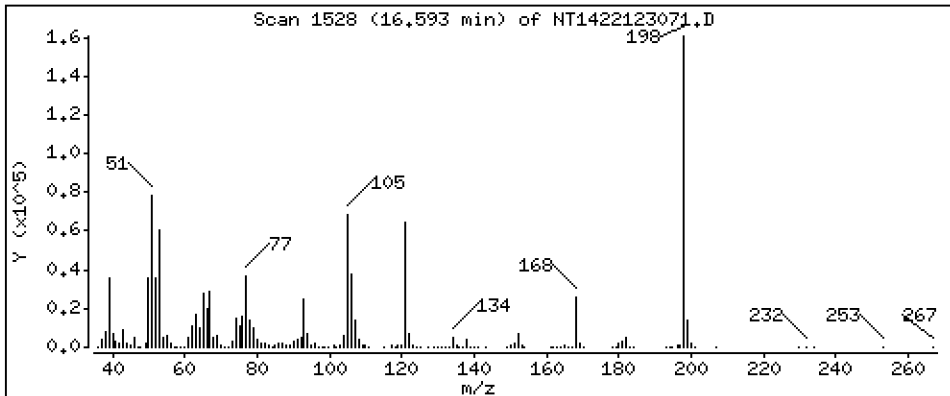
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 21,18 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

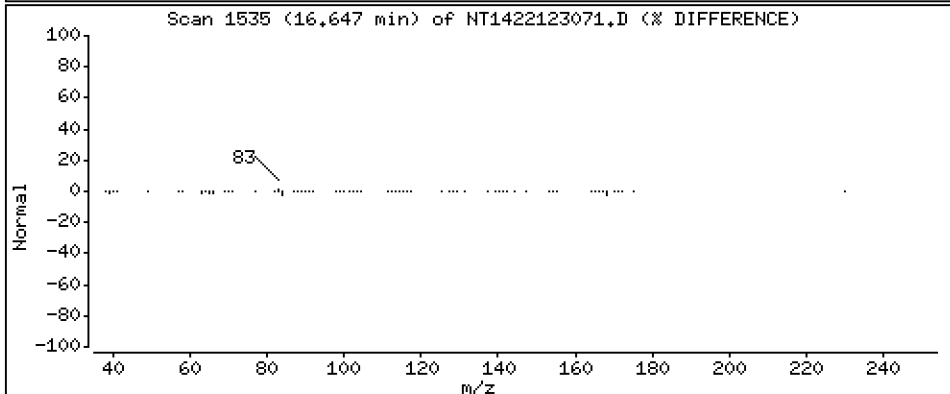
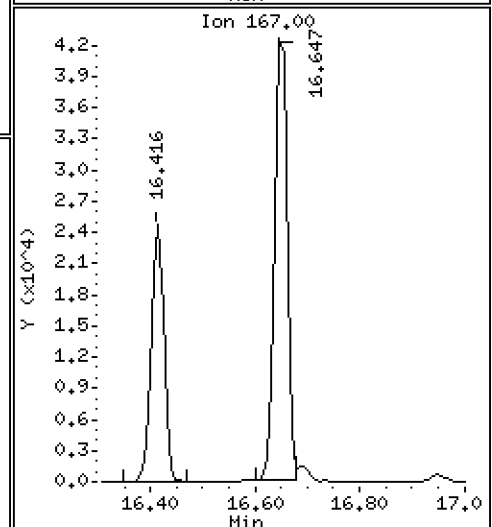
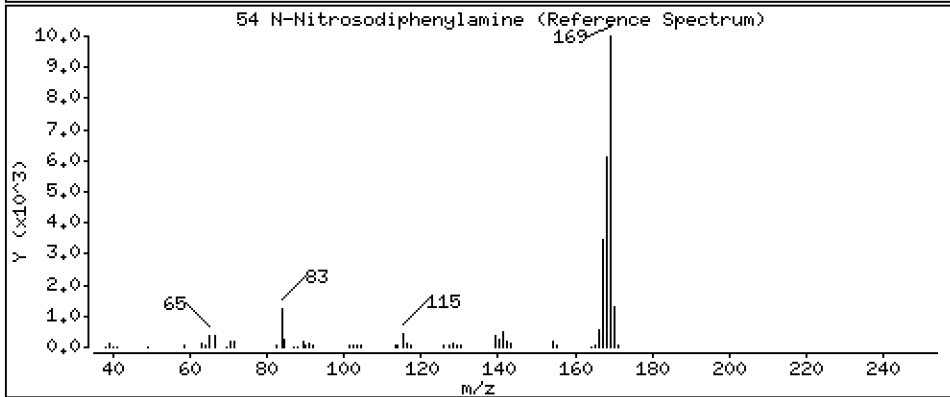
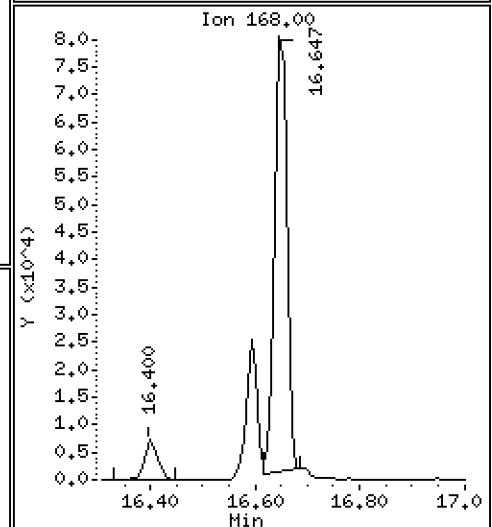
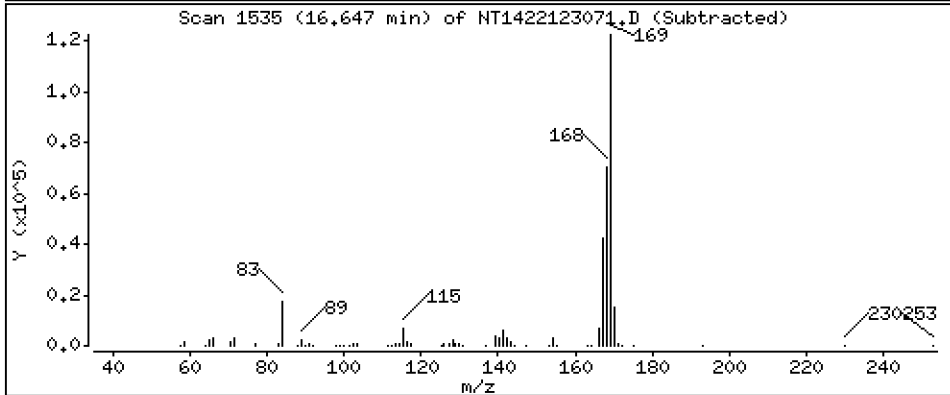
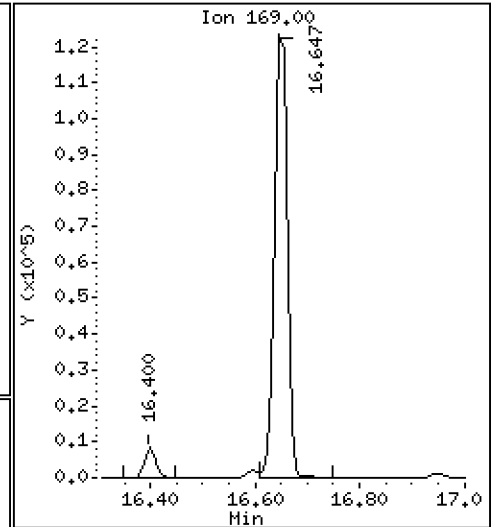
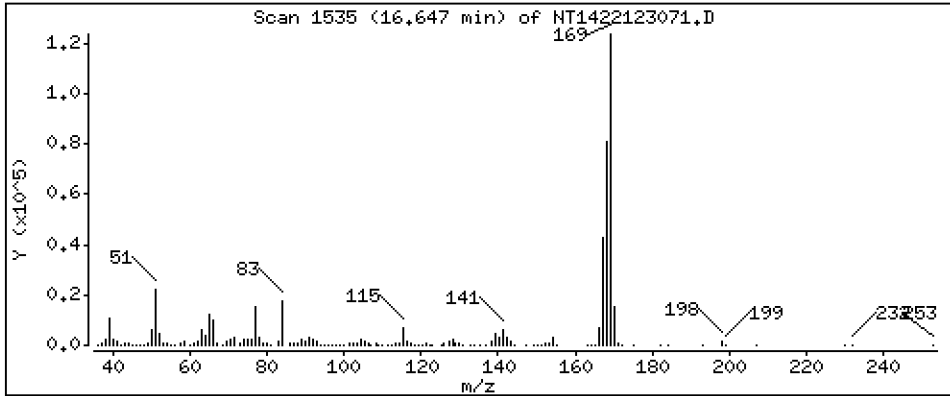
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,453 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

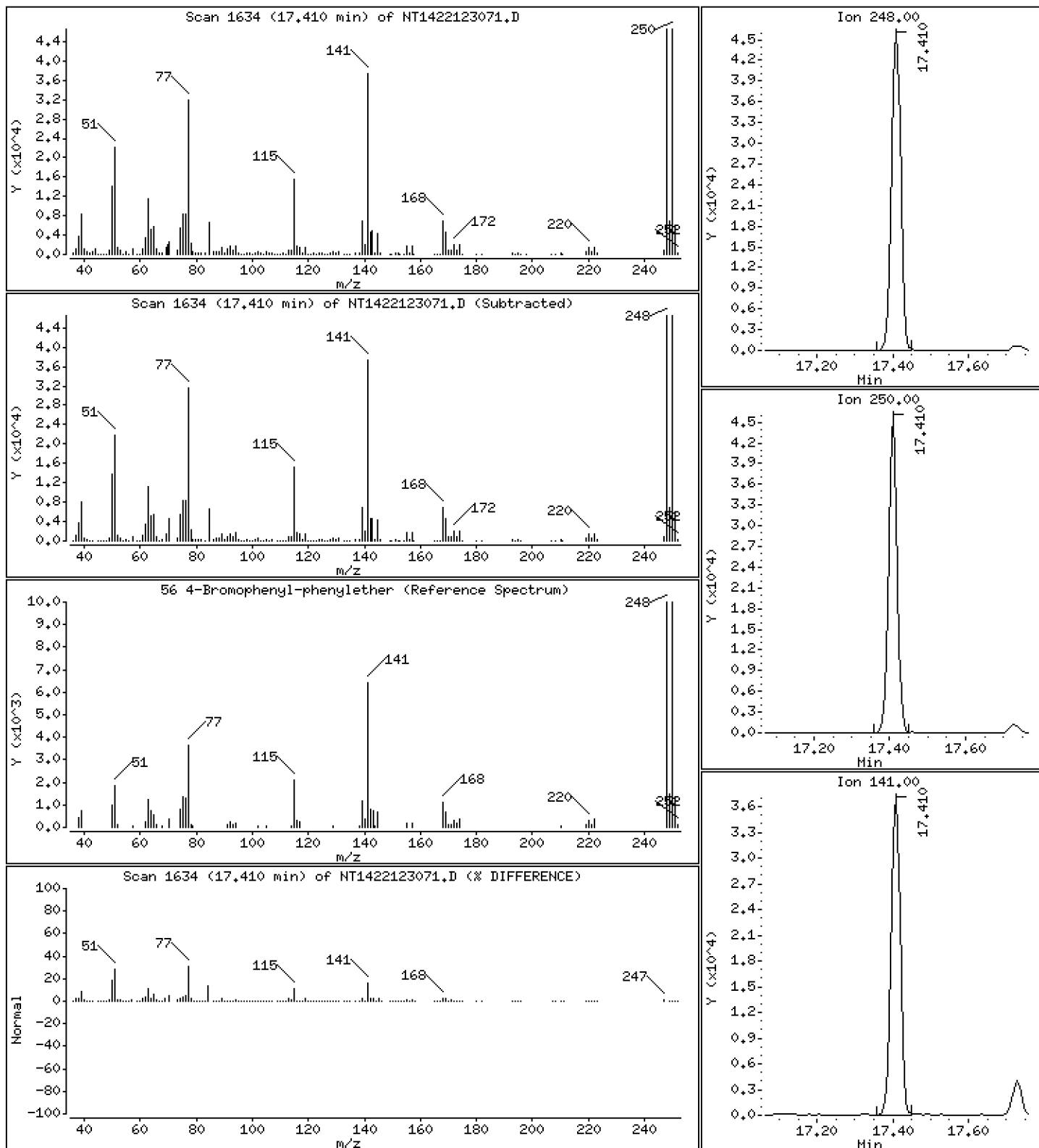
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,419 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

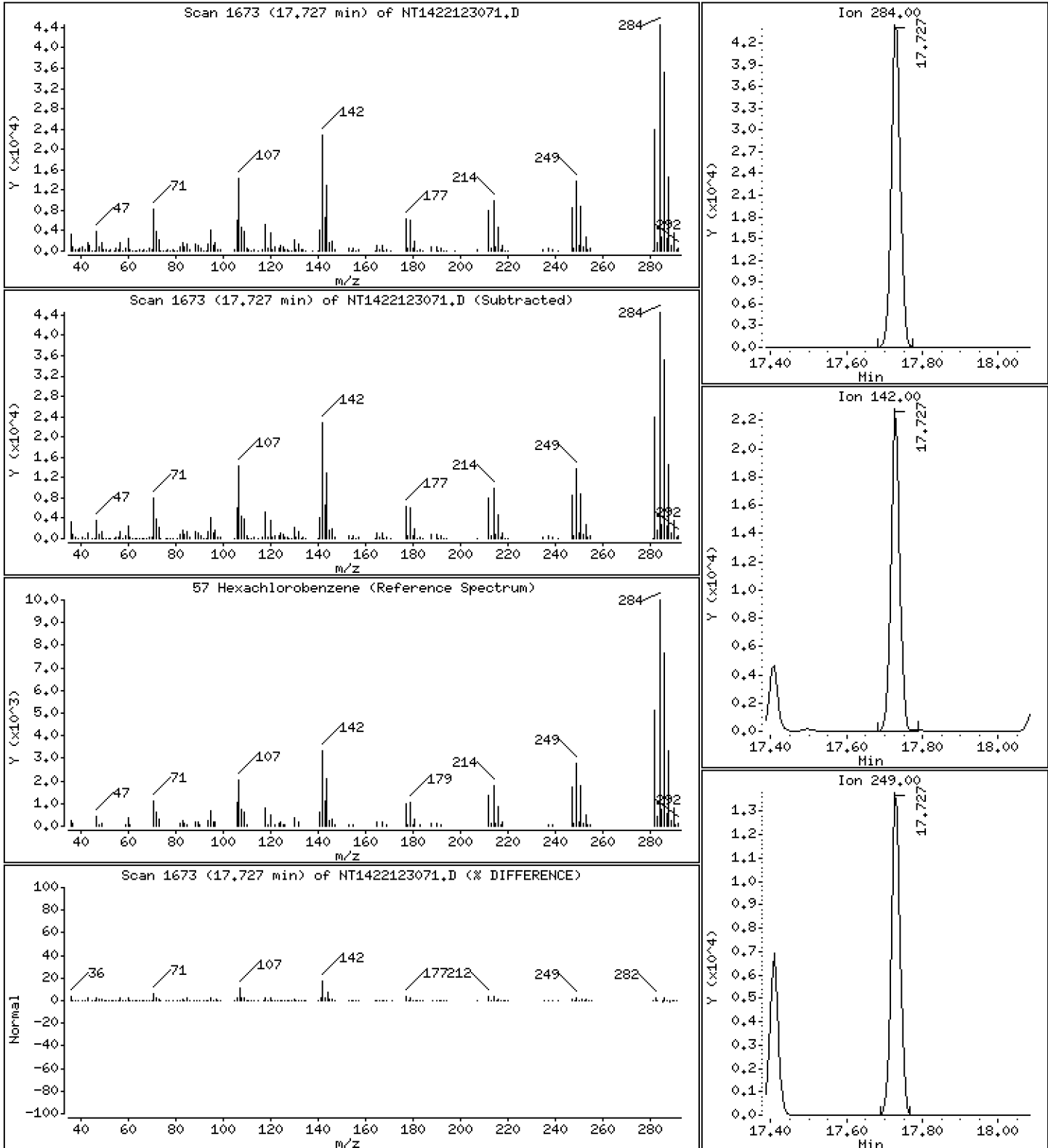
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,040 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

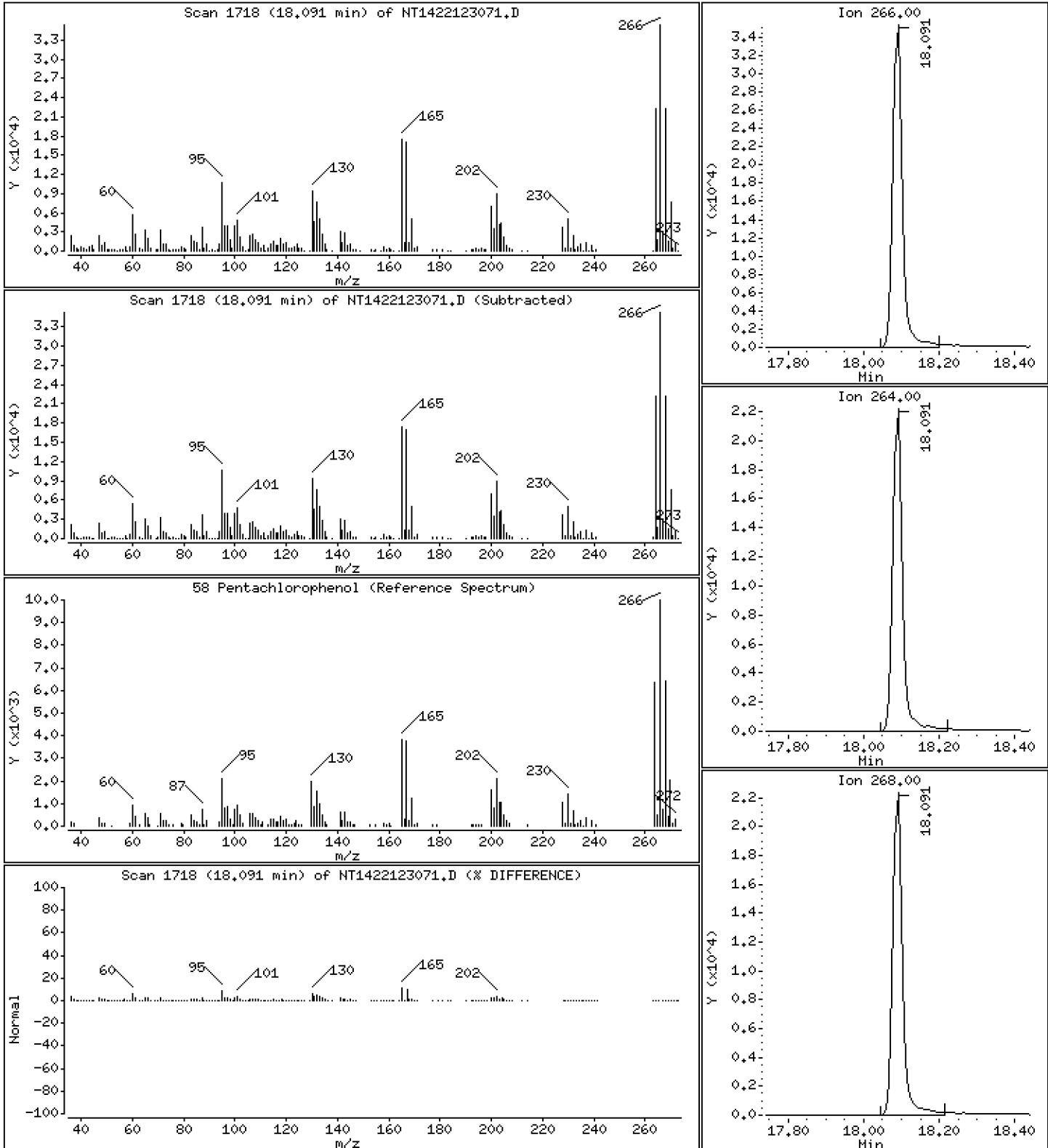
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

58 Pentachlorophenol

Concentration: 7.131 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

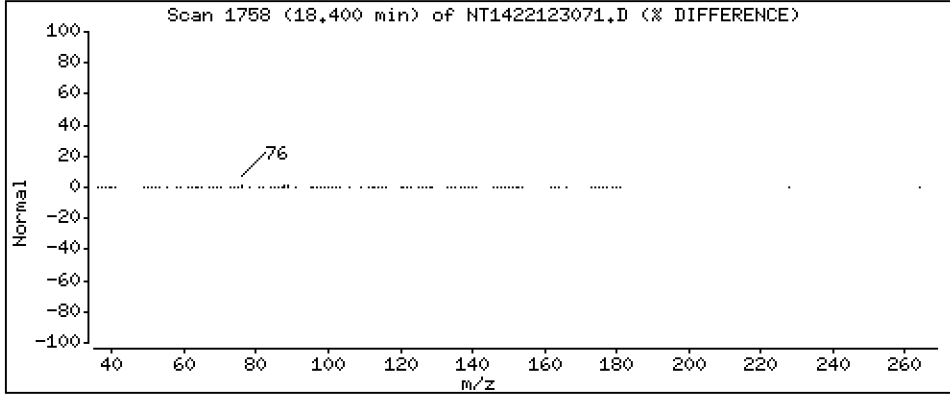
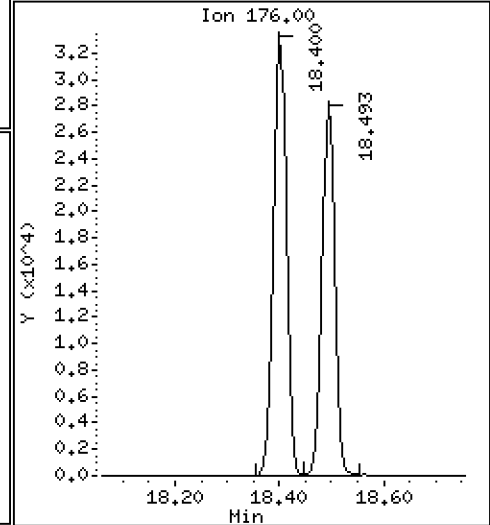
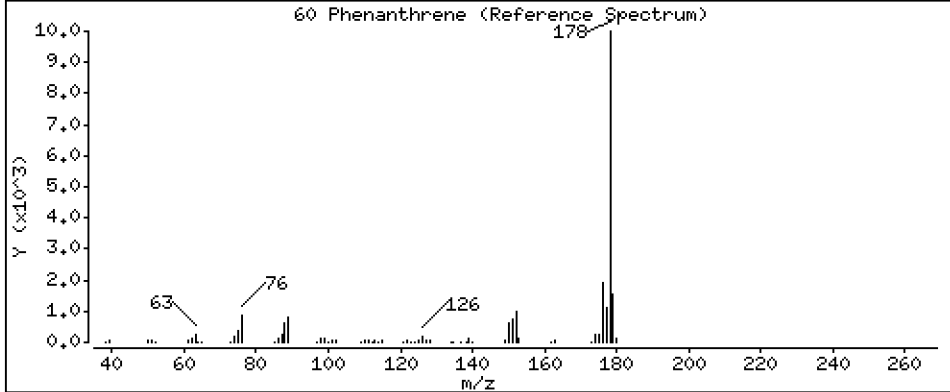
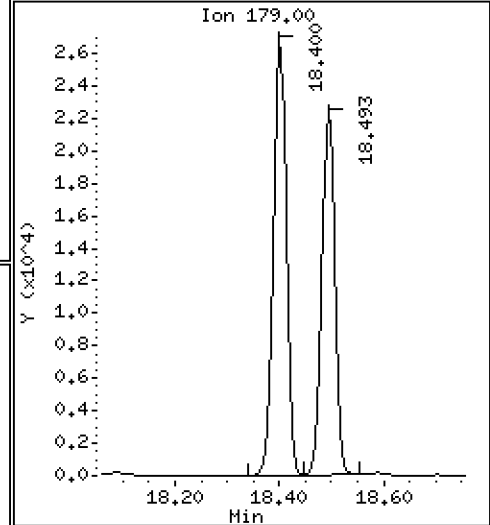
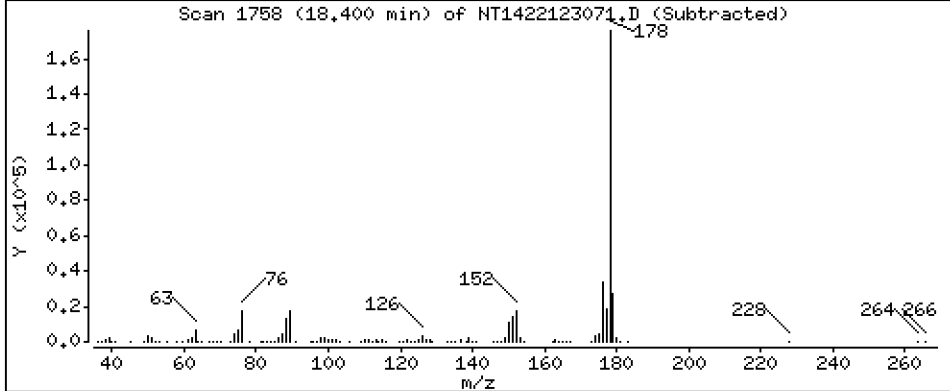
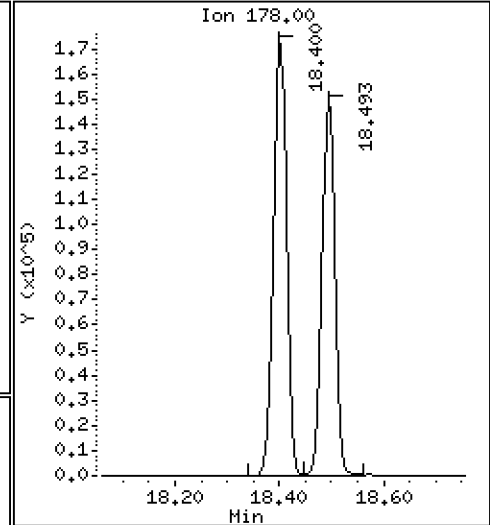
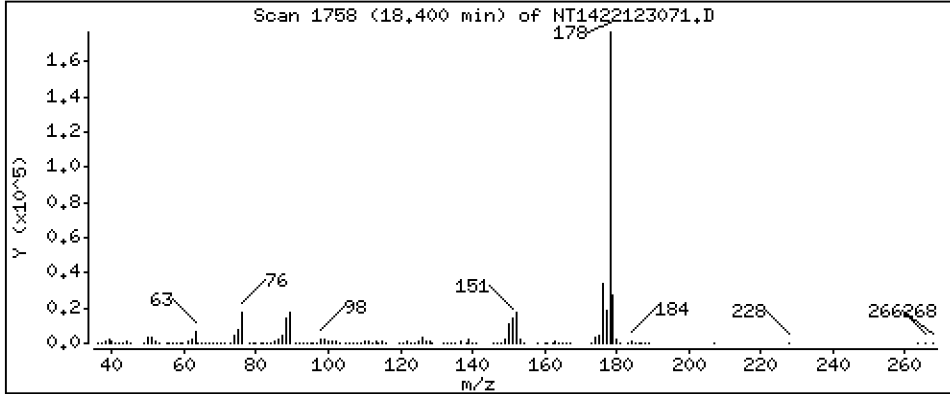
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,252 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

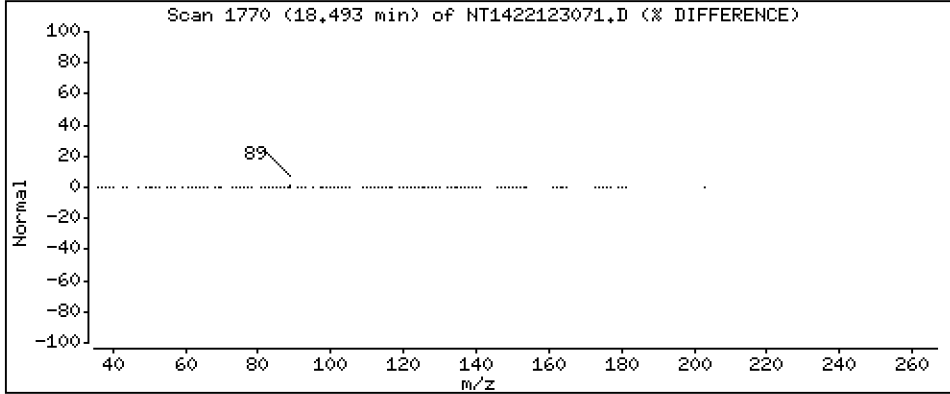
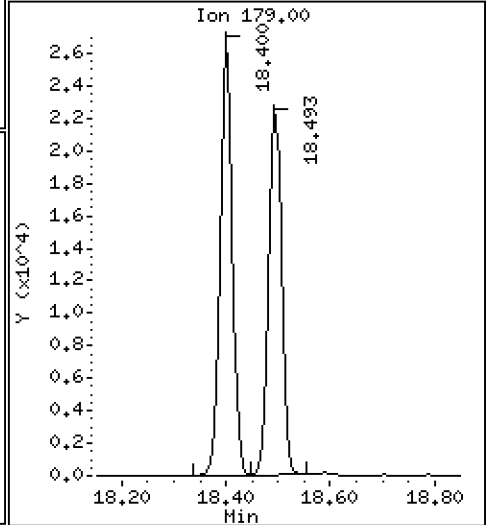
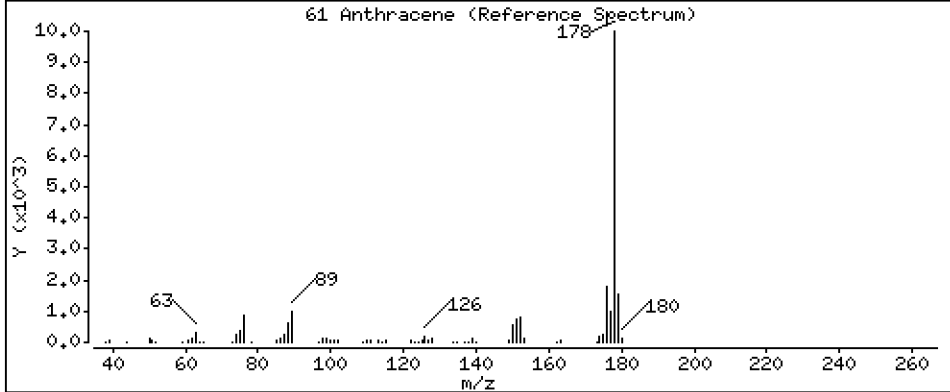
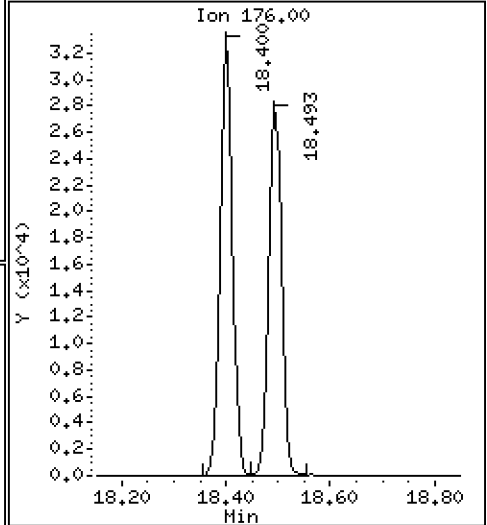
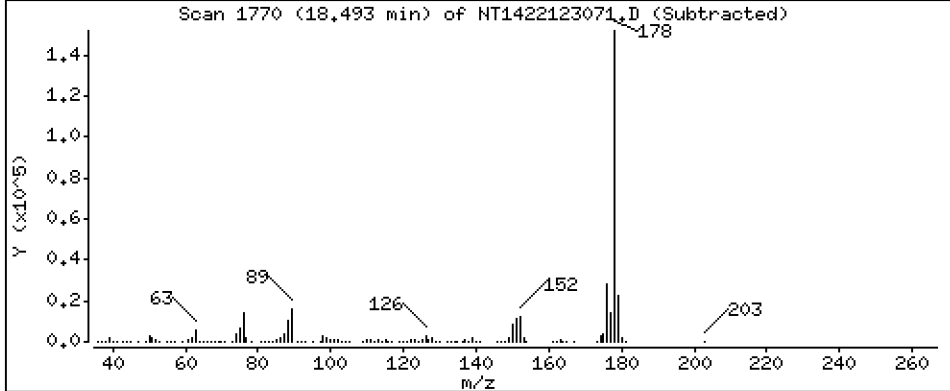
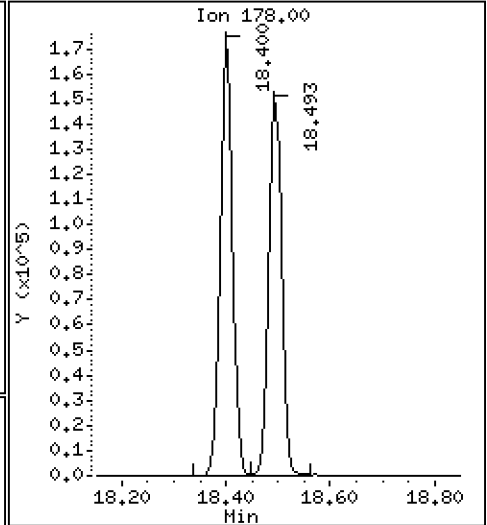
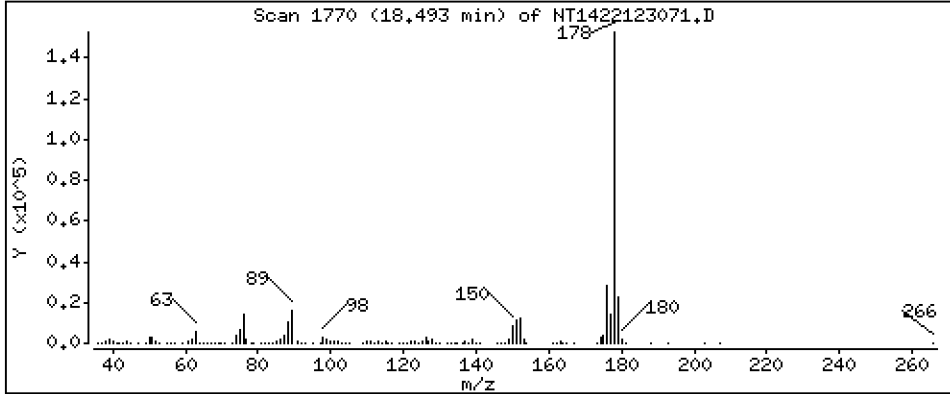
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 3,808 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

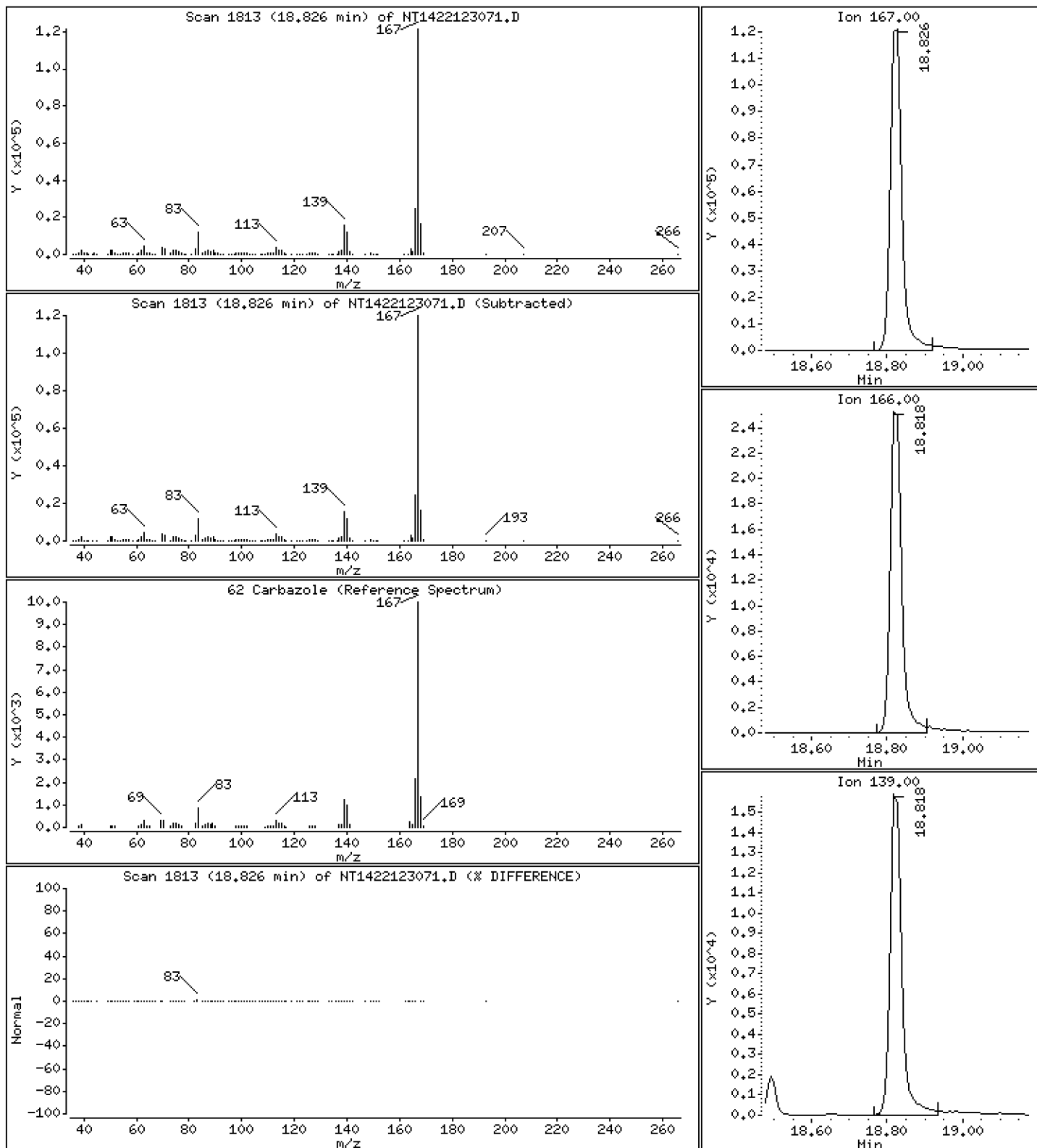
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 3,948 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

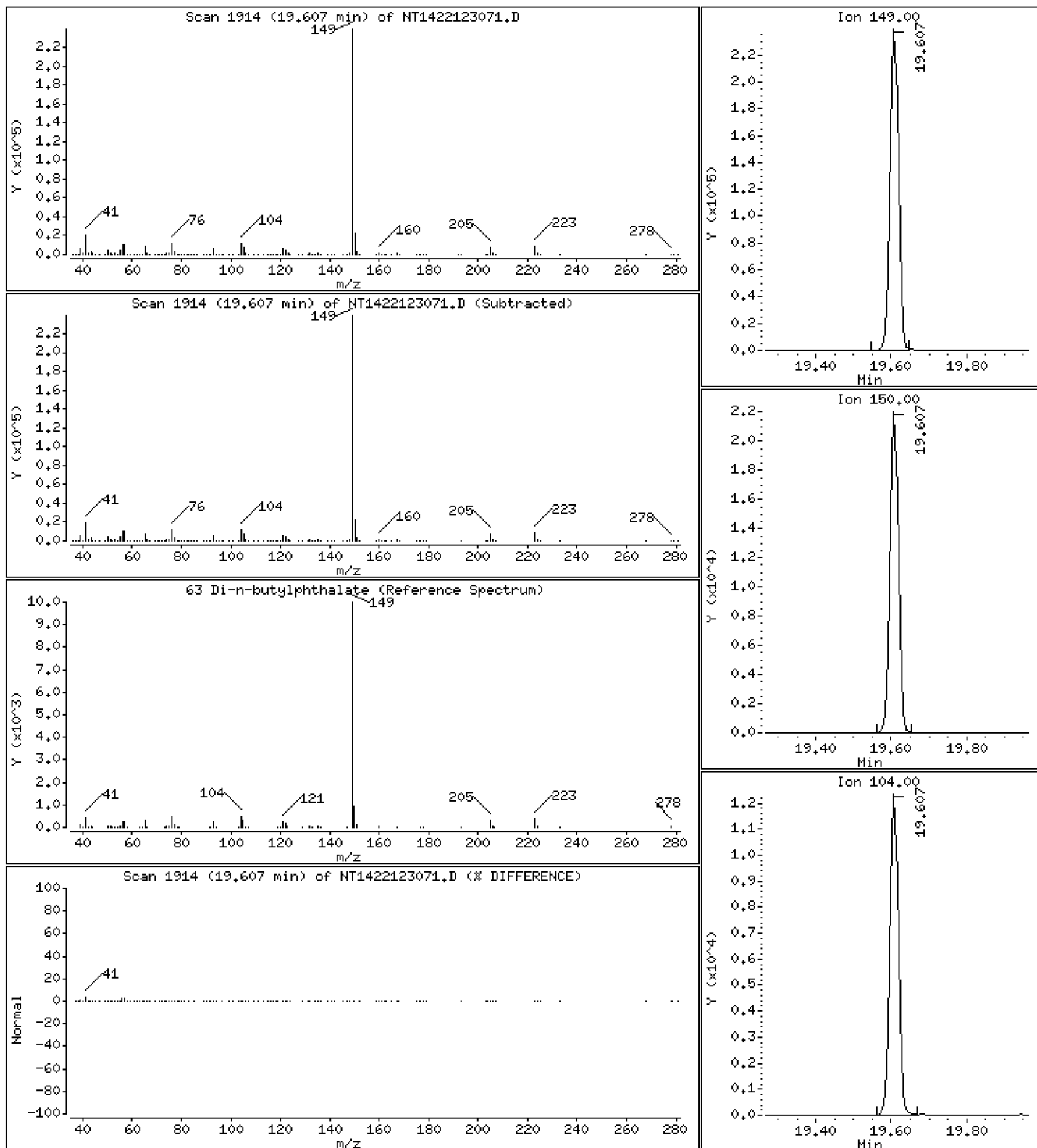
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,847 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

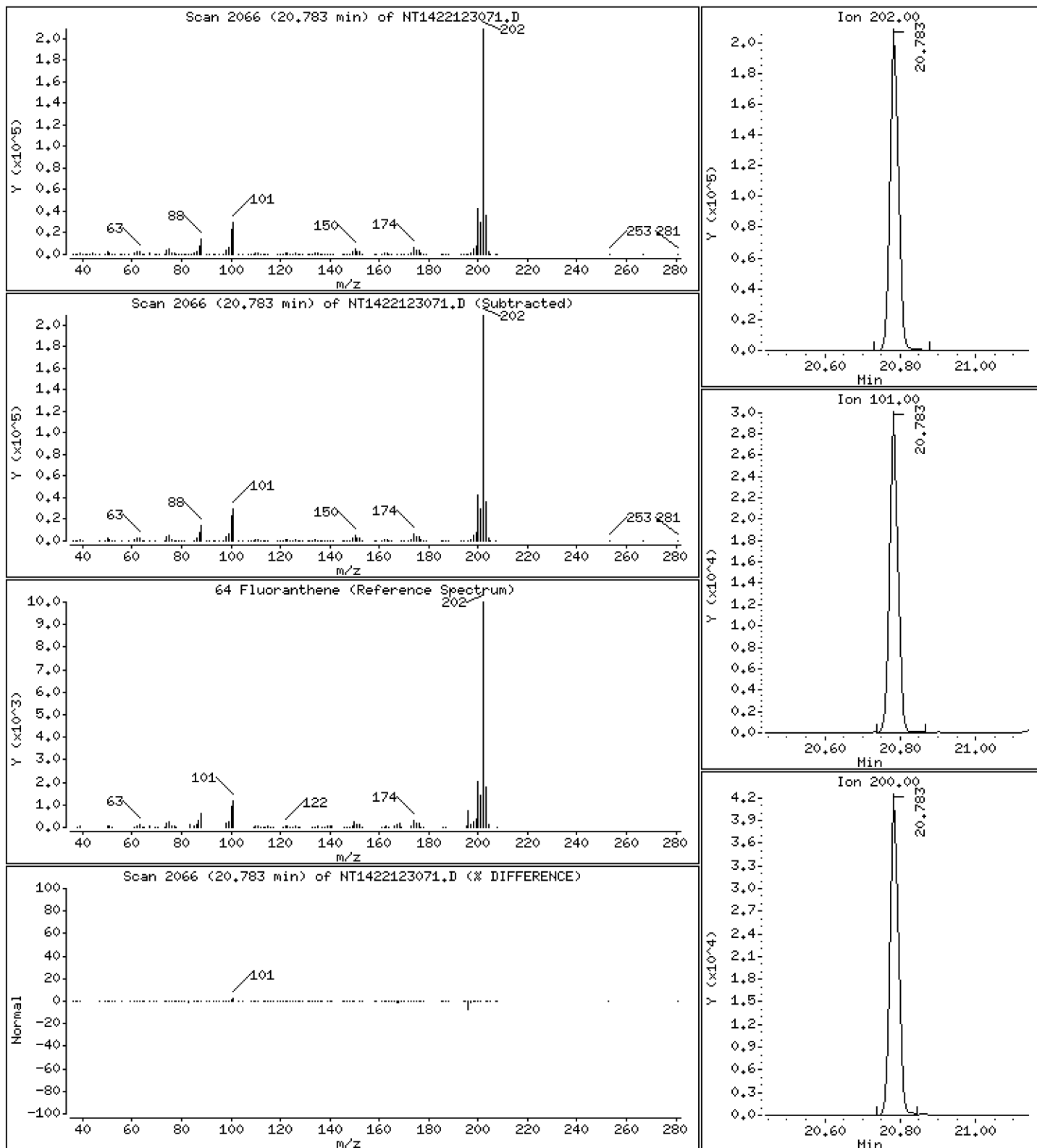
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,545 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

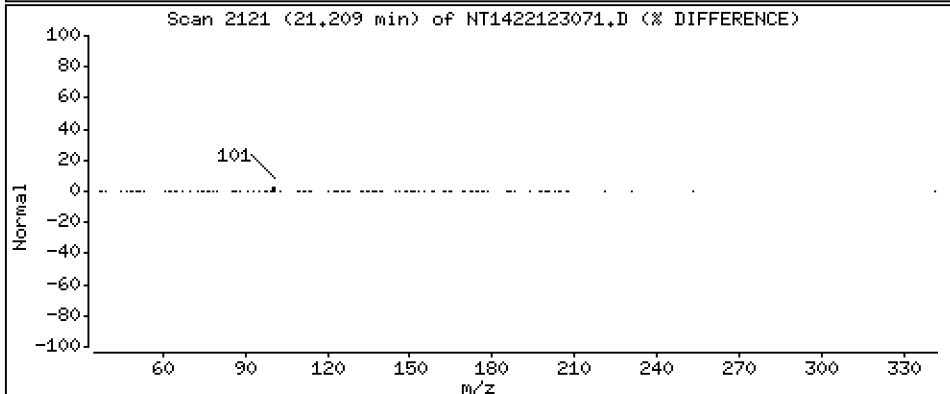
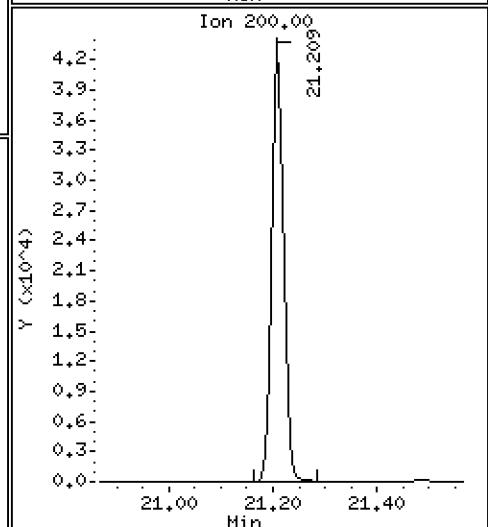
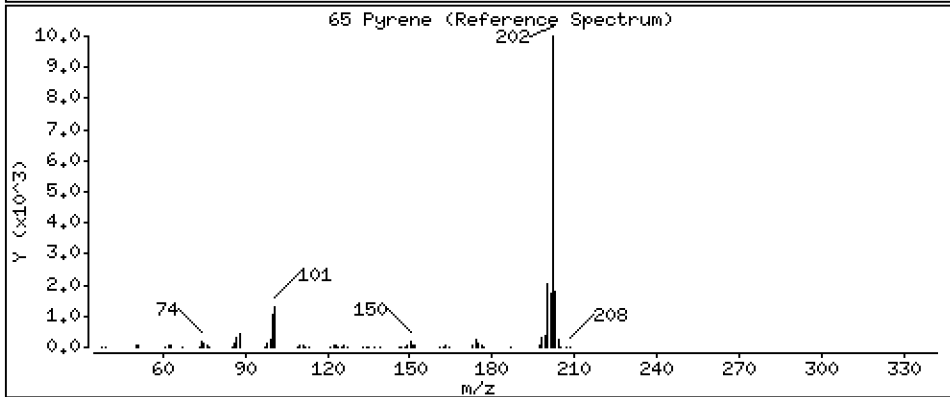
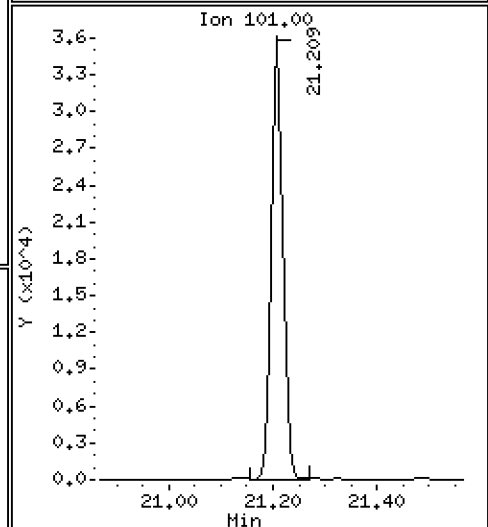
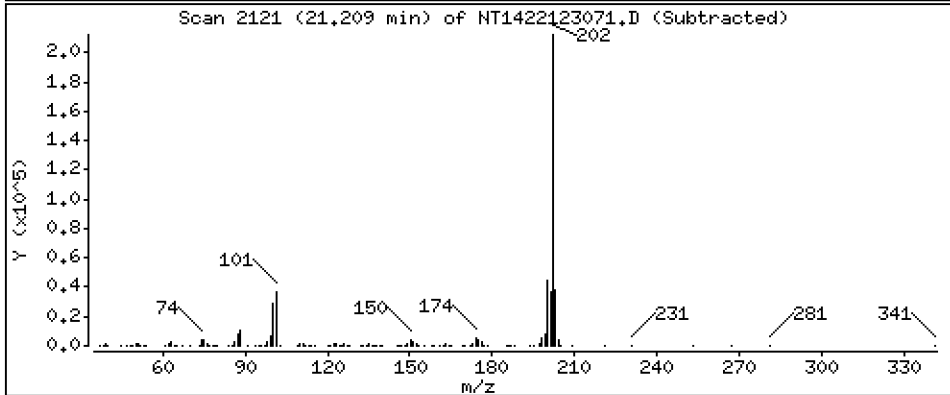
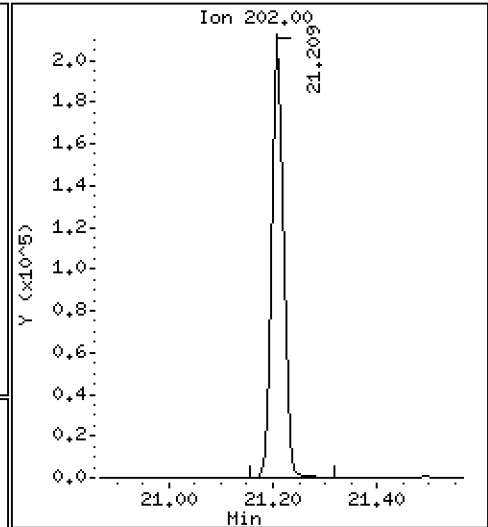
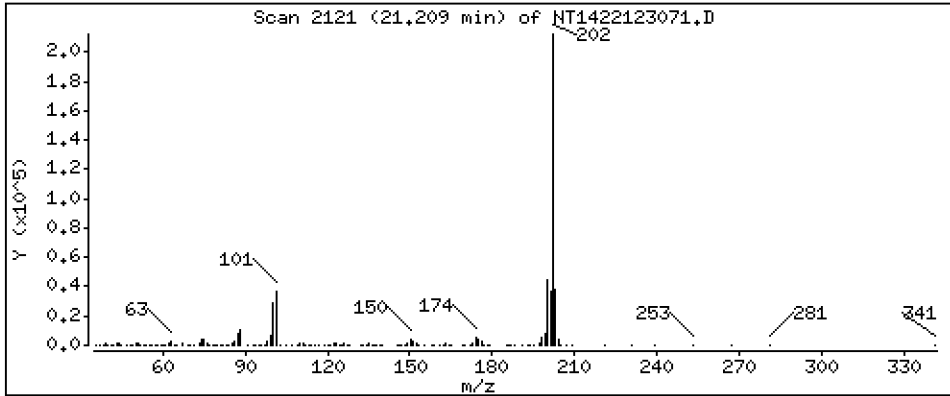
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,449 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

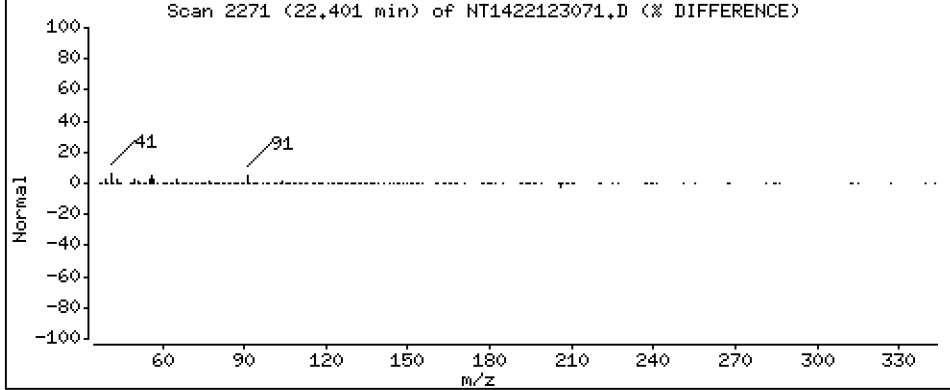
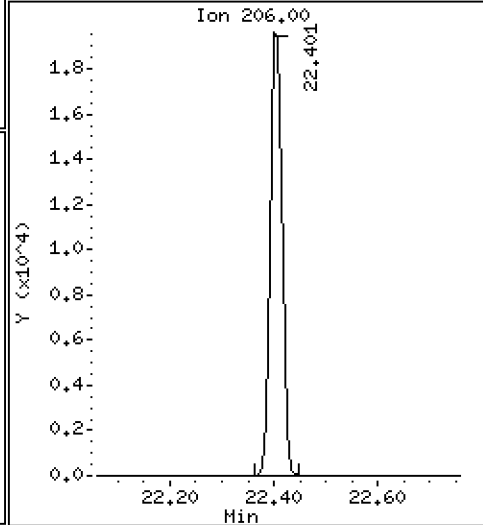
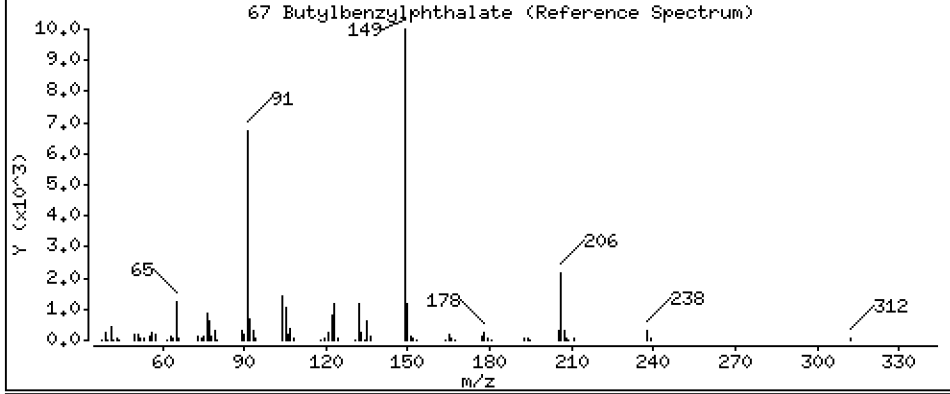
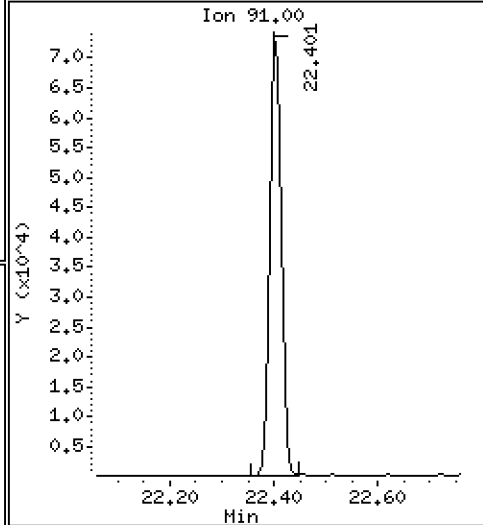
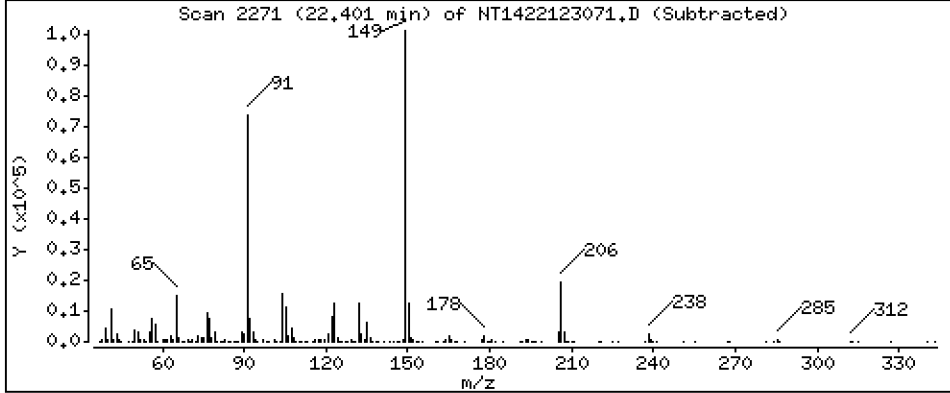
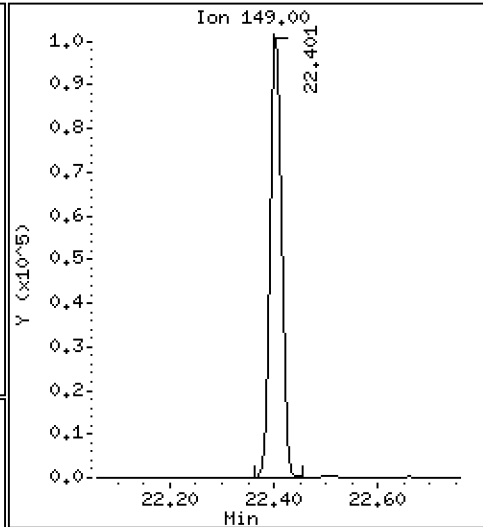
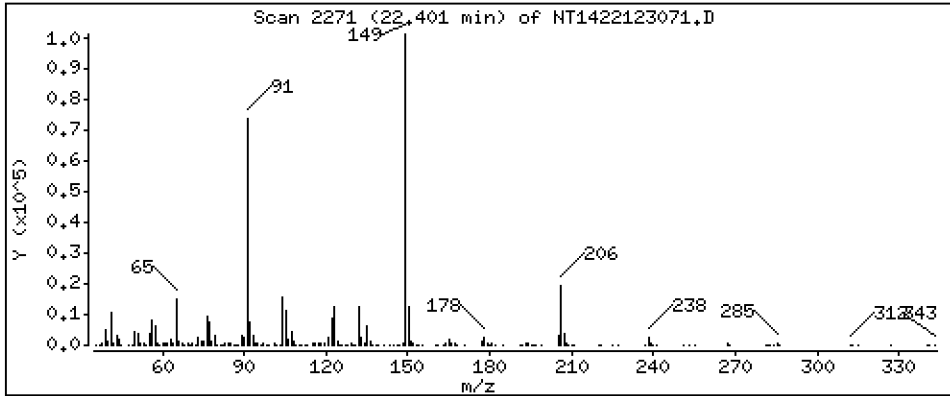
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,335 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

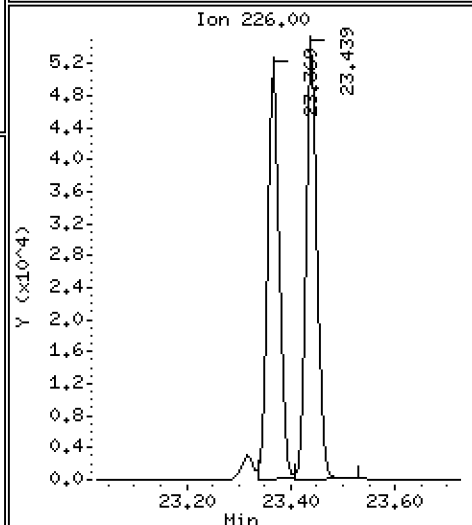
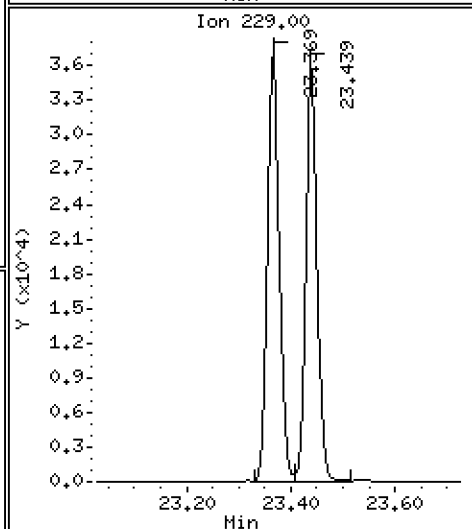
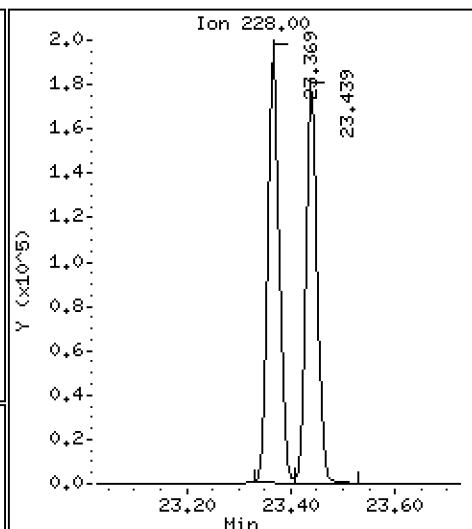
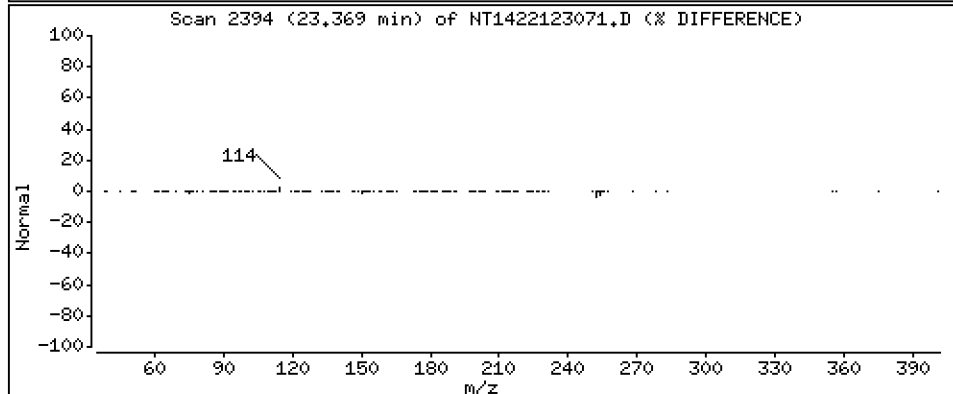
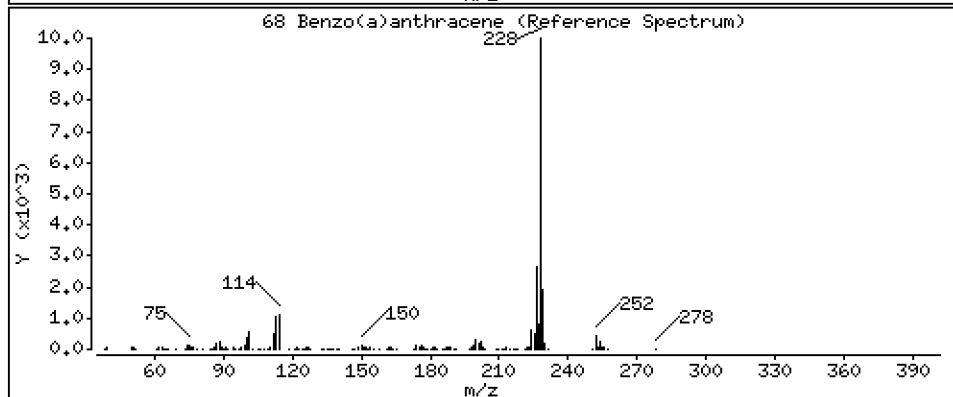
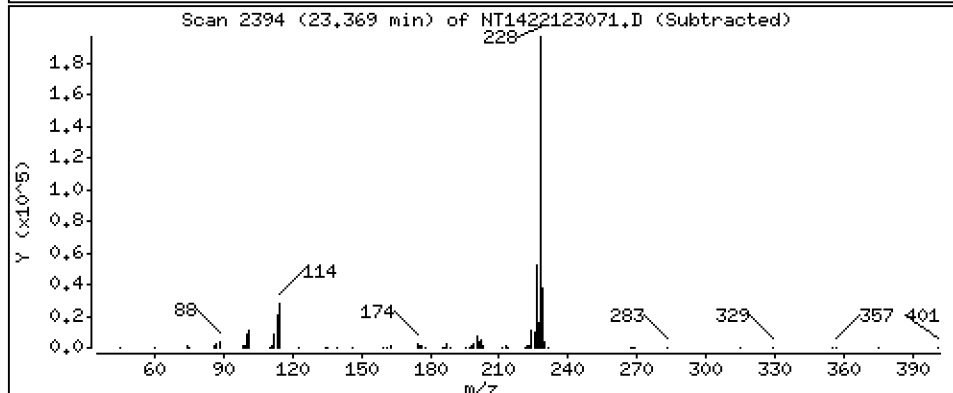
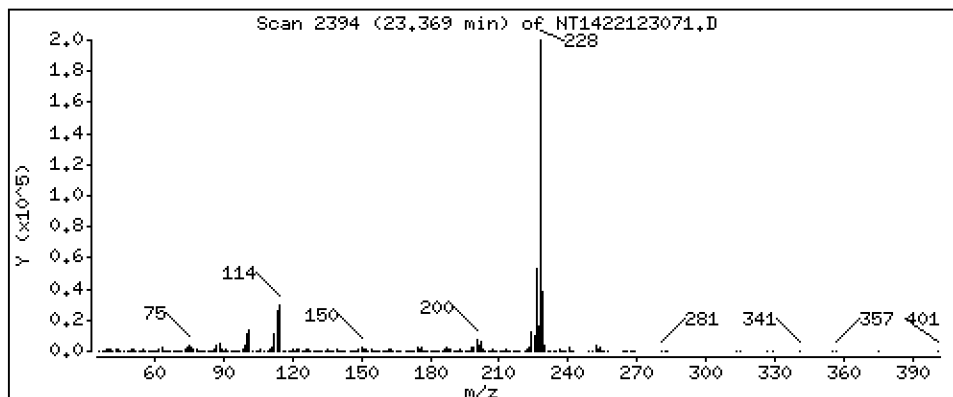
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,562 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

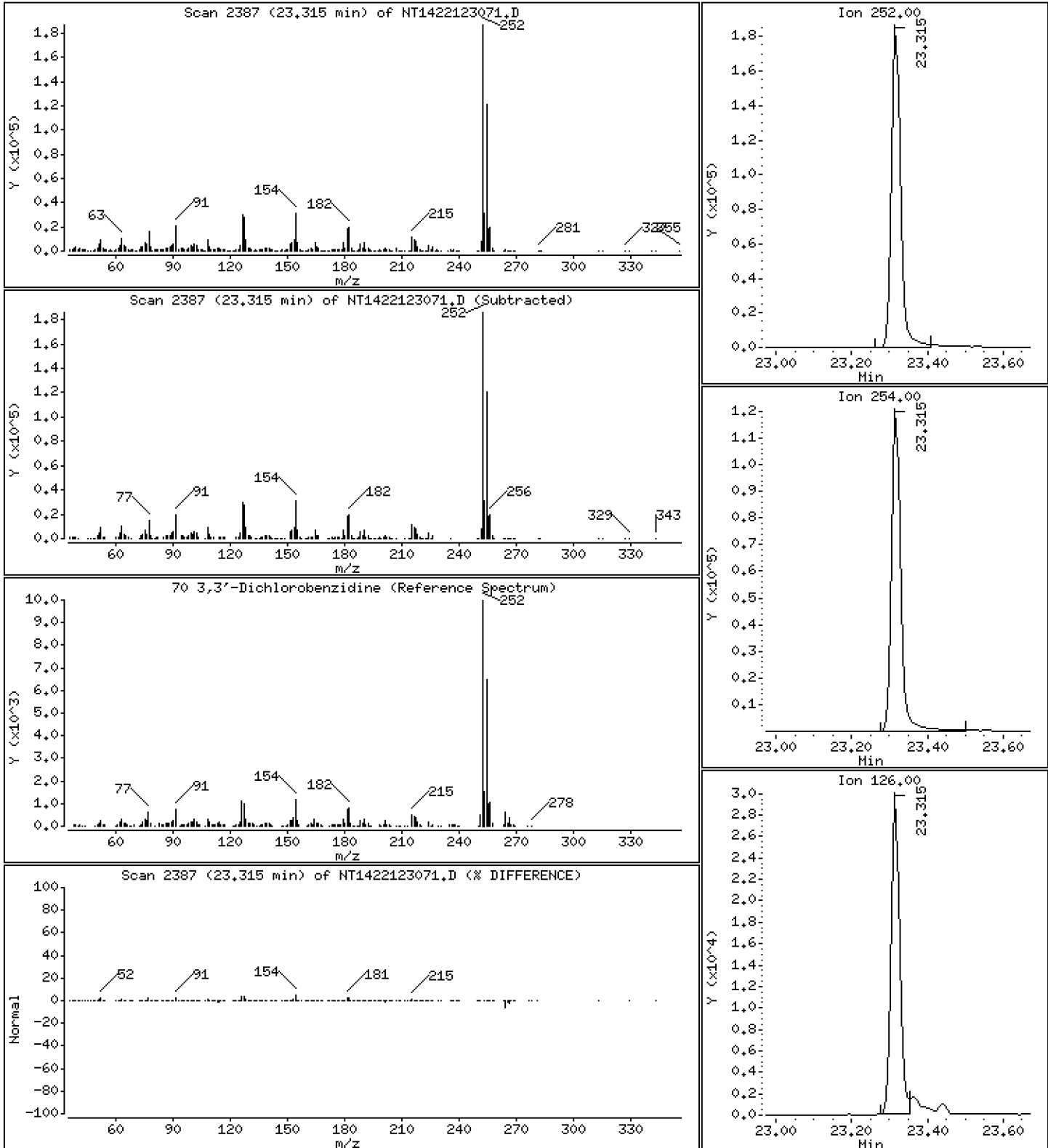
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 14,77 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

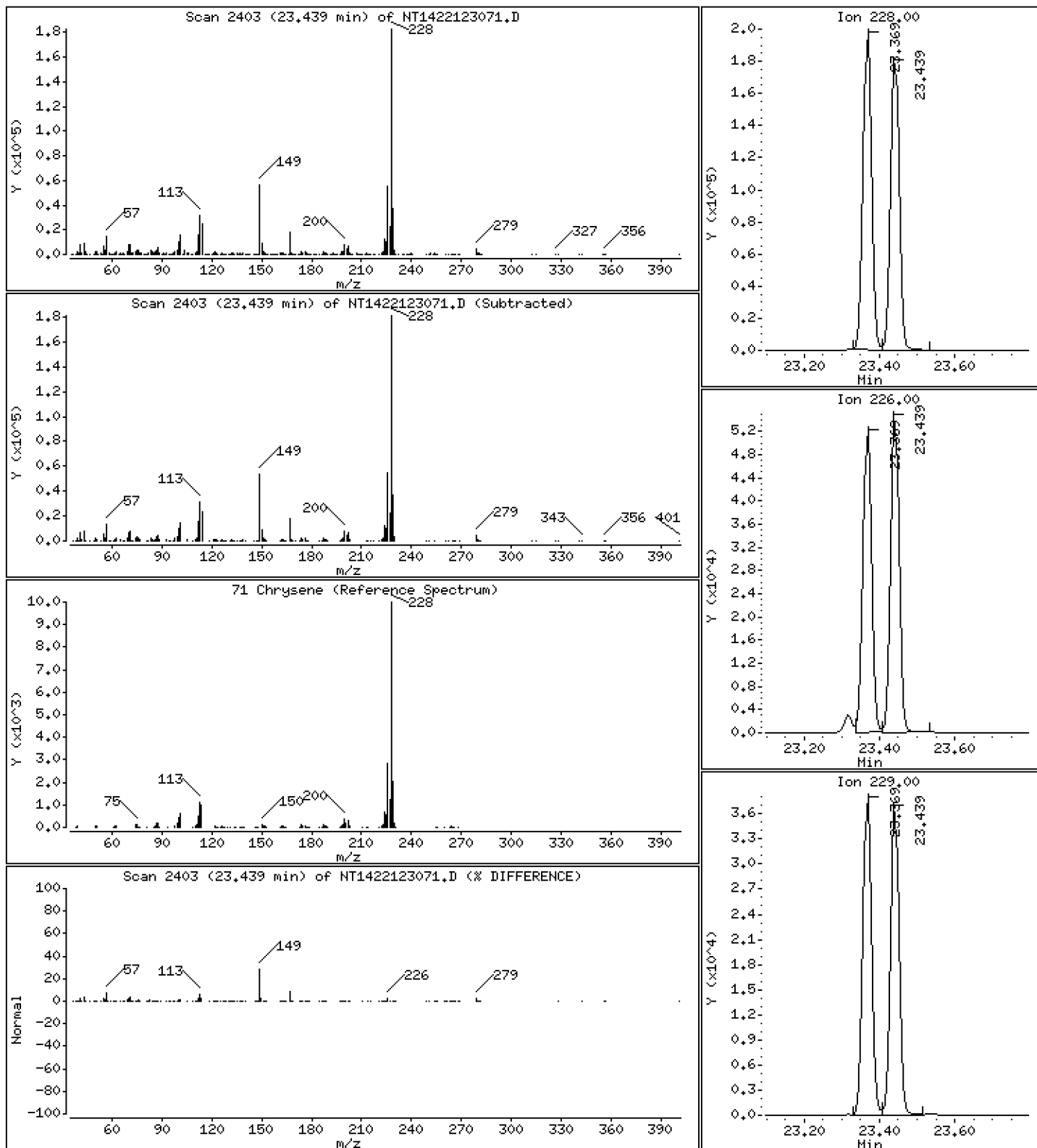
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,479 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

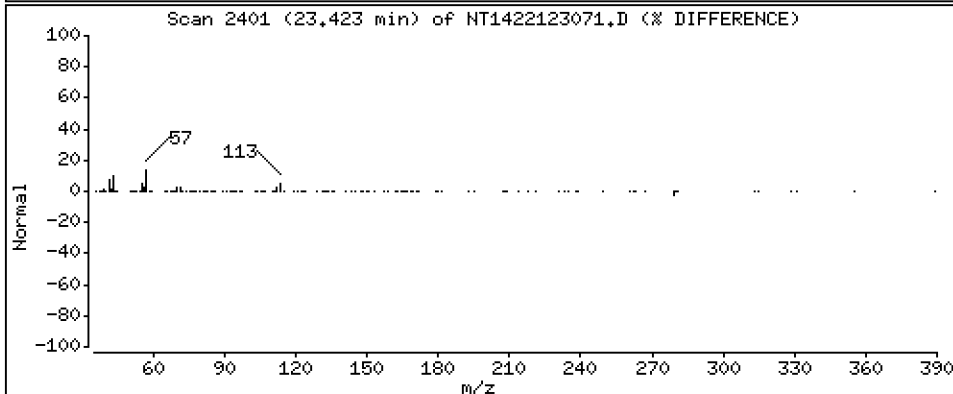
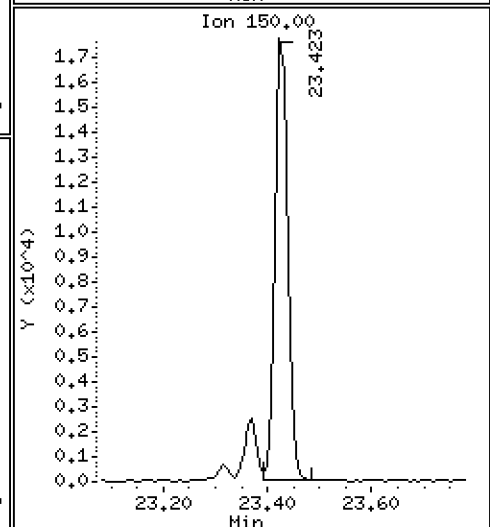
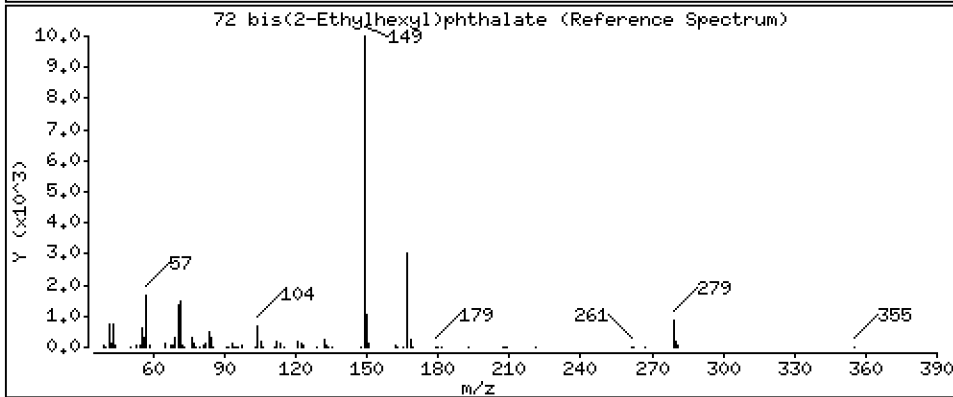
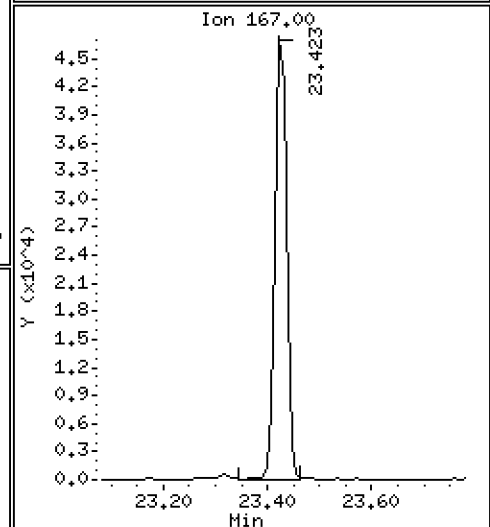
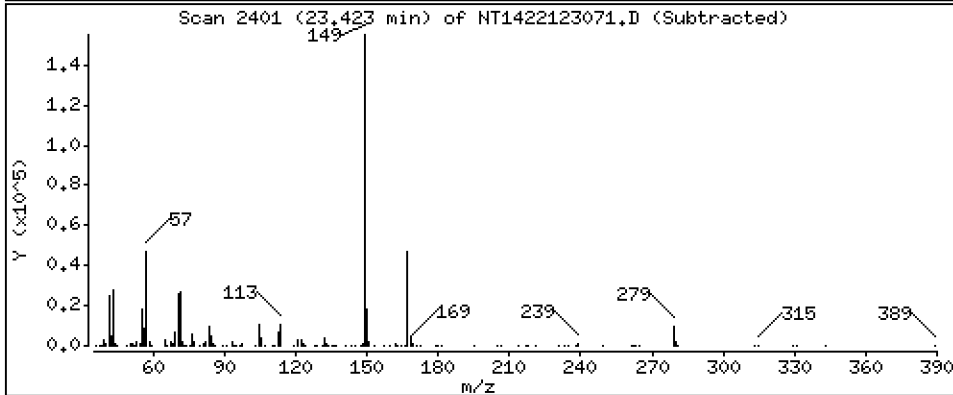
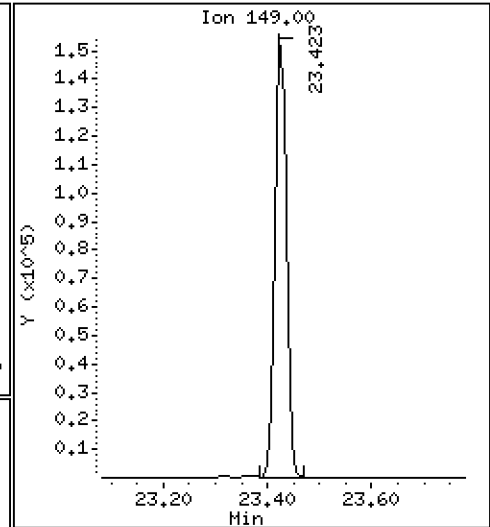
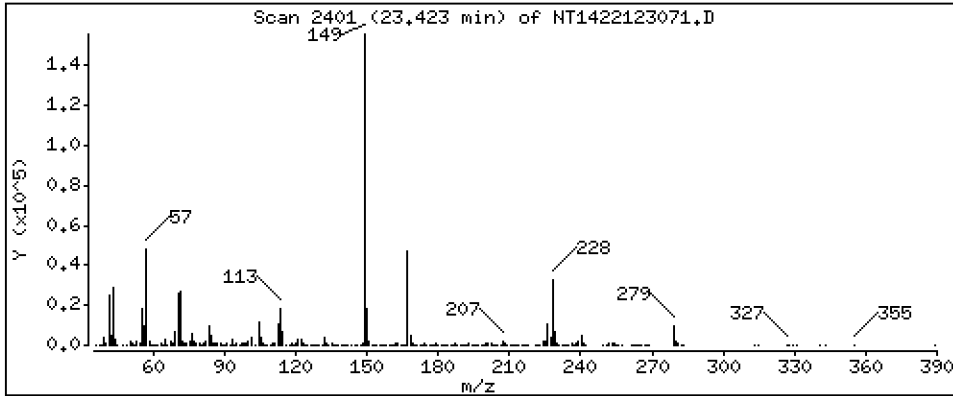
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,541 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

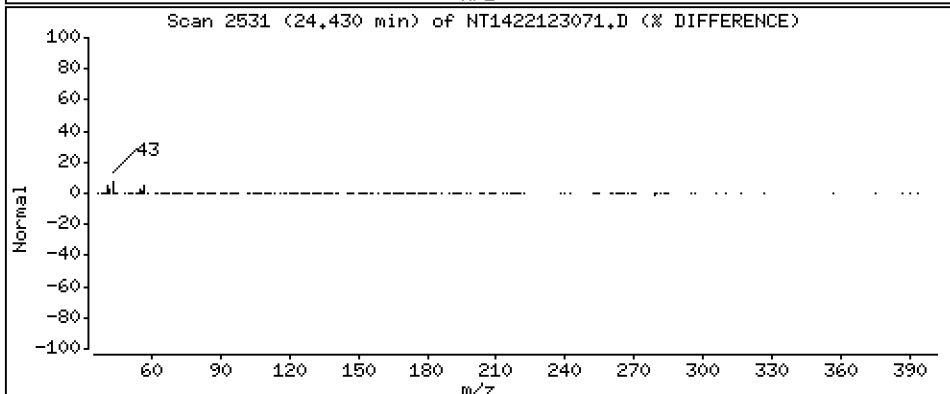
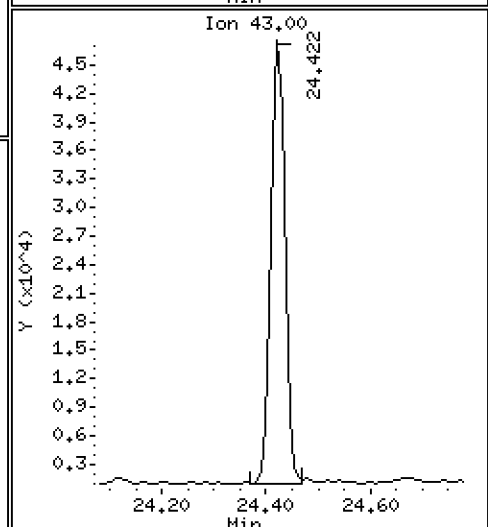
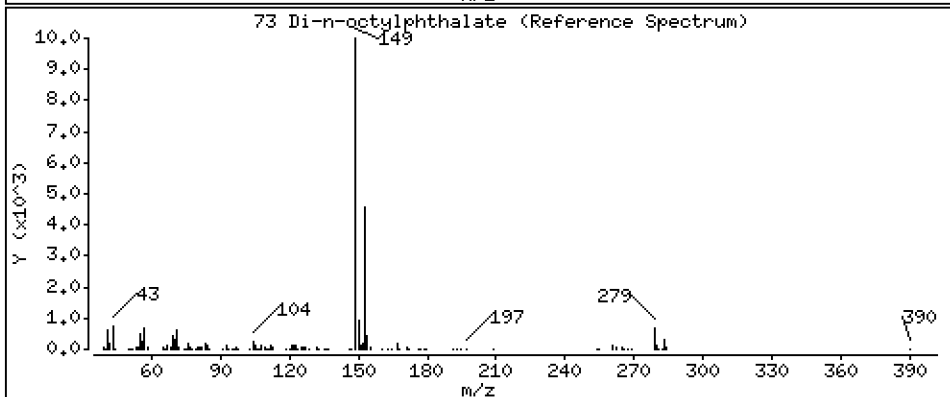
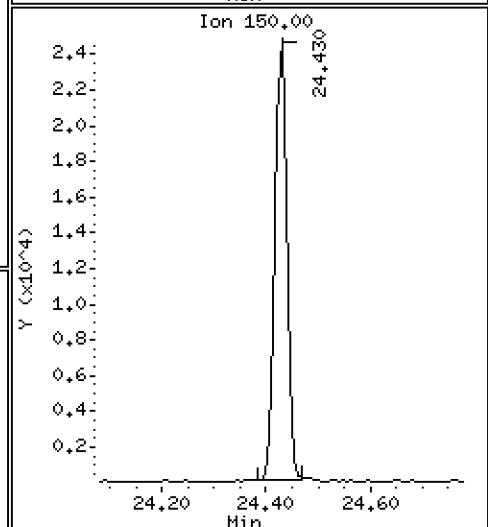
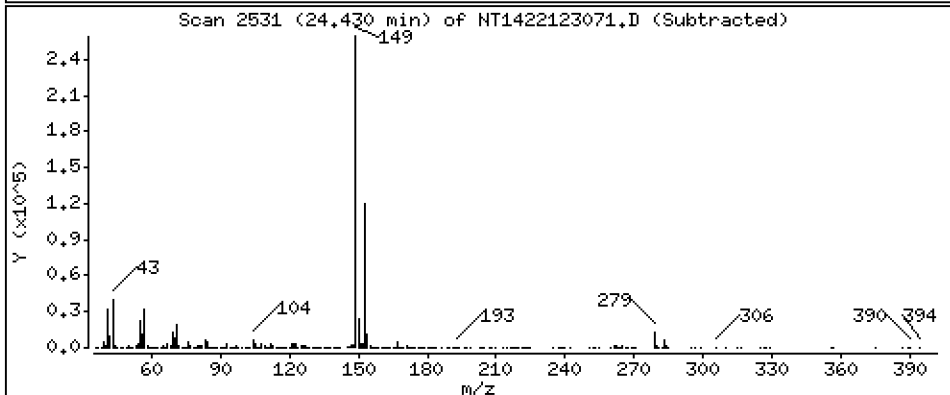
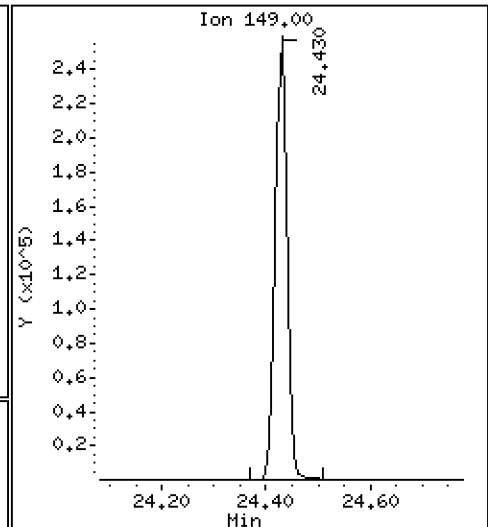
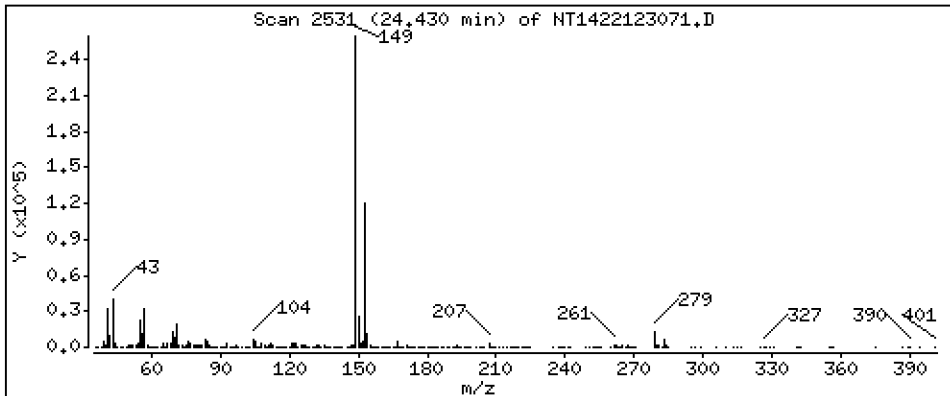
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,486 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

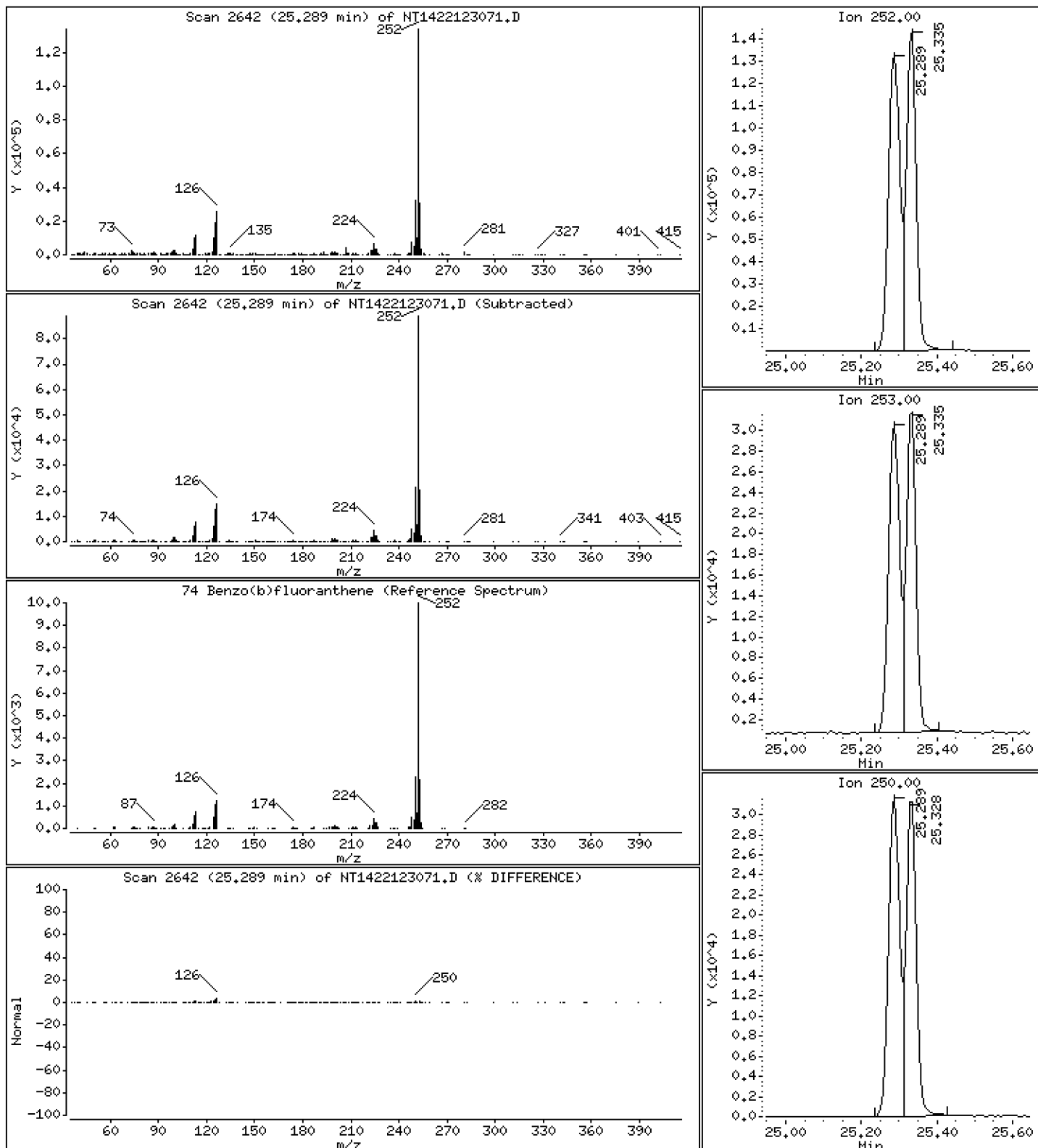
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,010 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

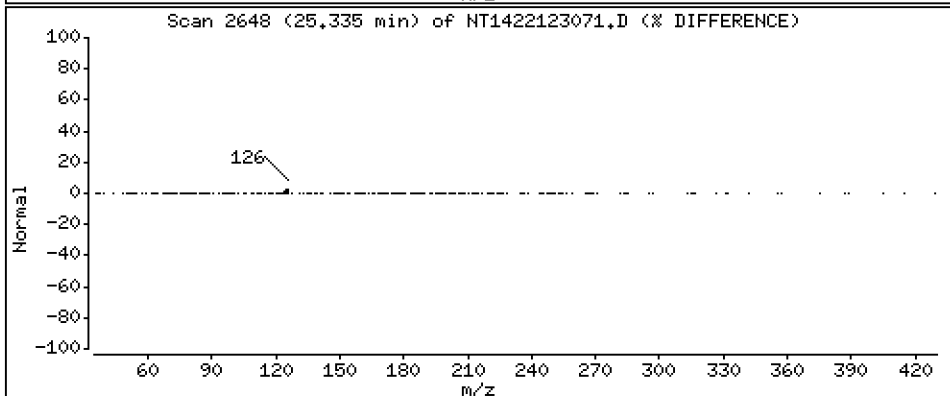
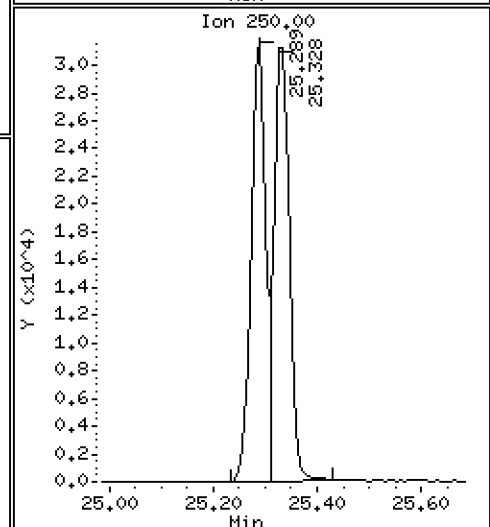
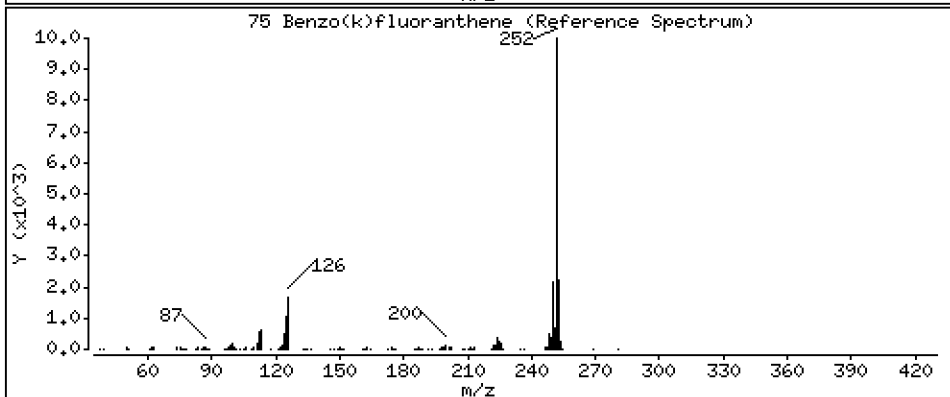
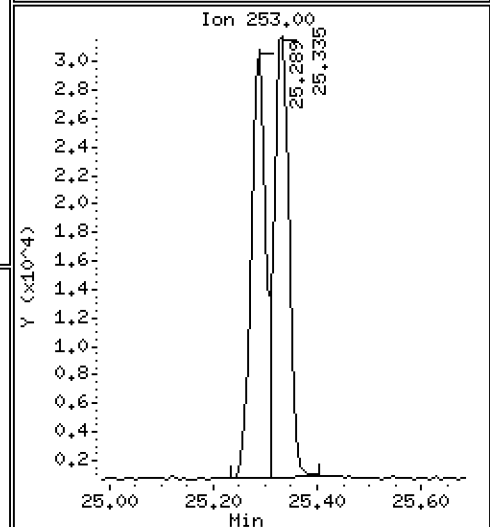
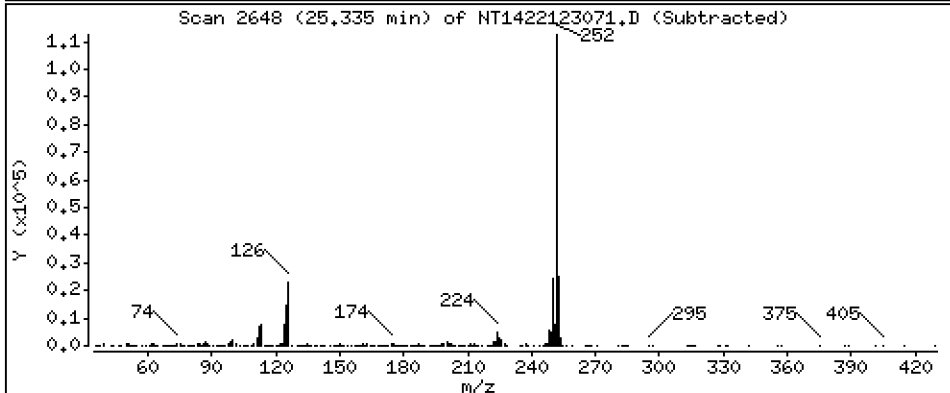
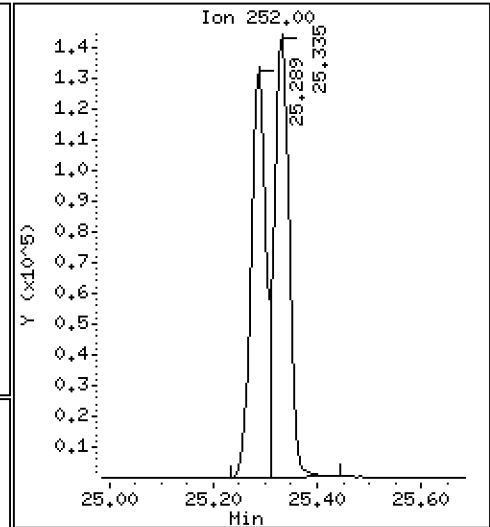
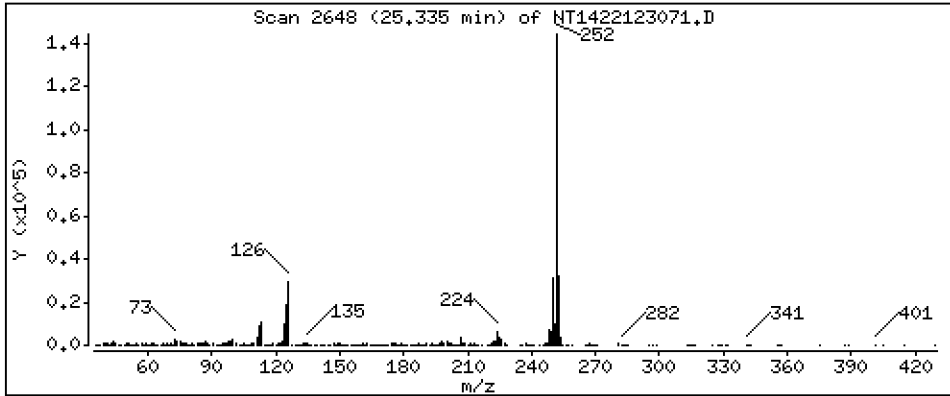
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,808 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

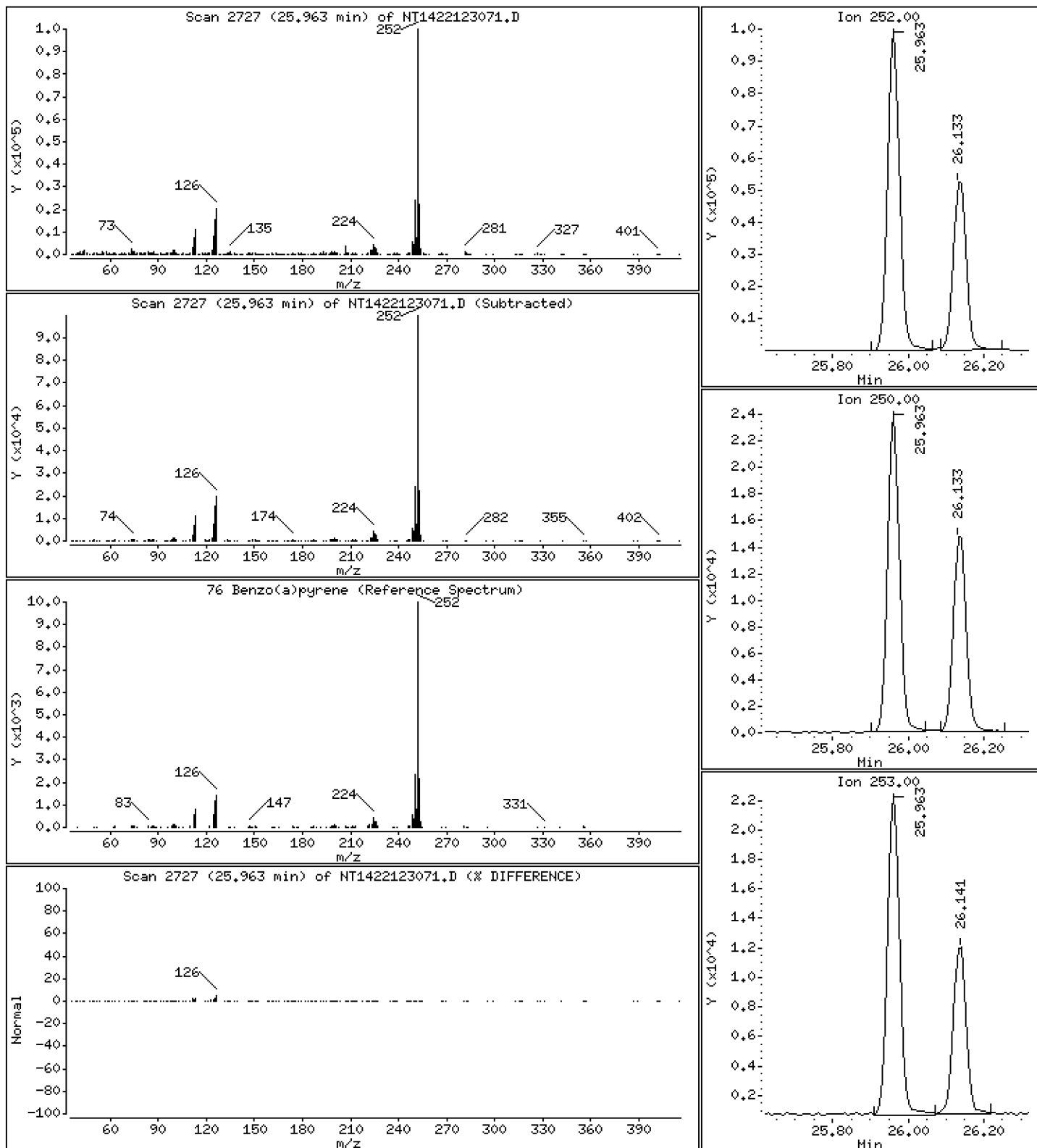
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,577 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

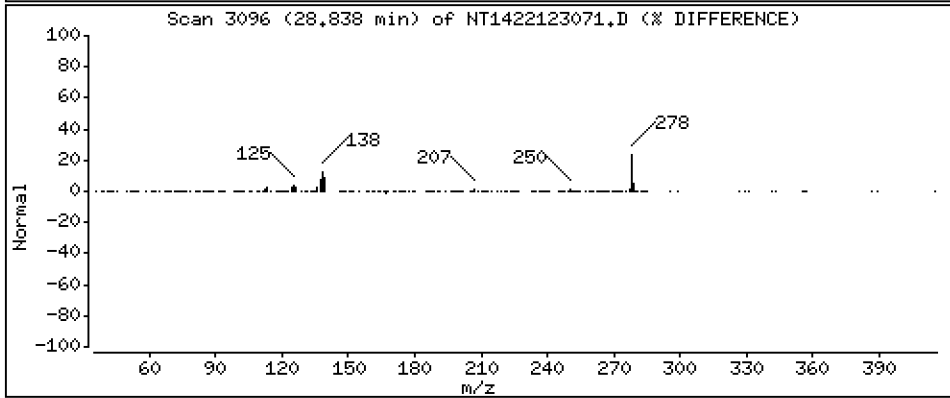
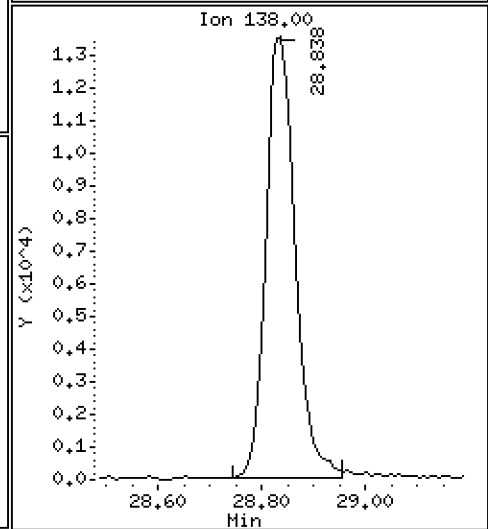
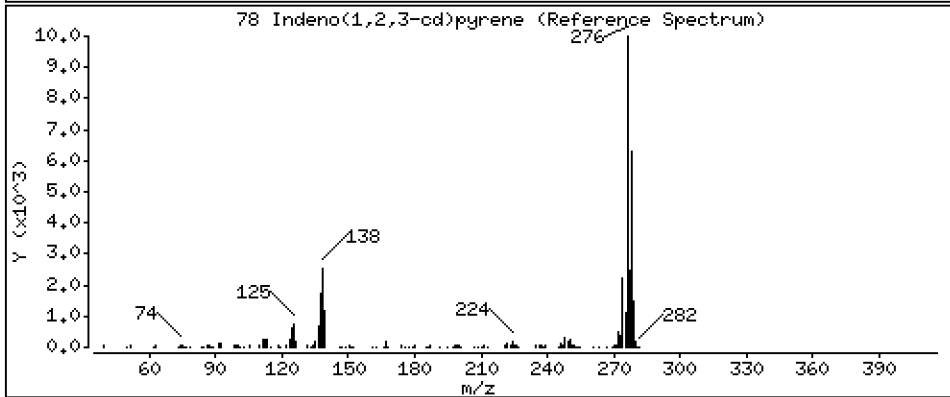
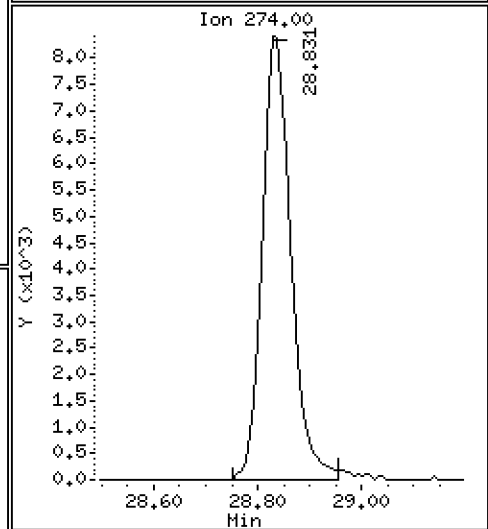
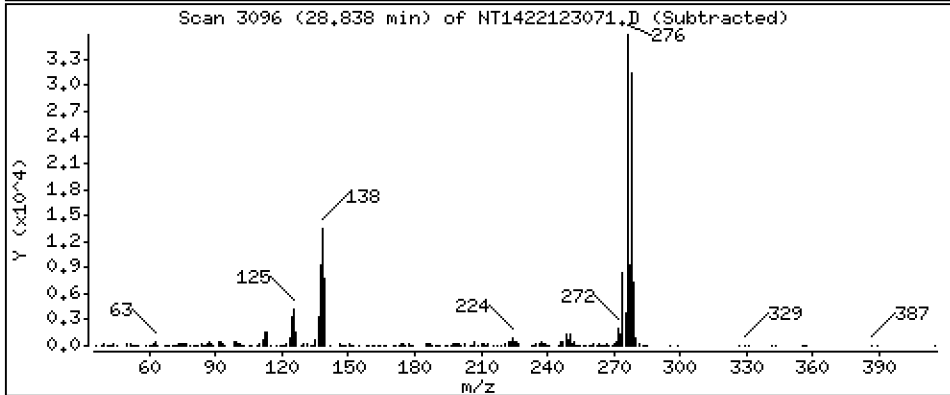
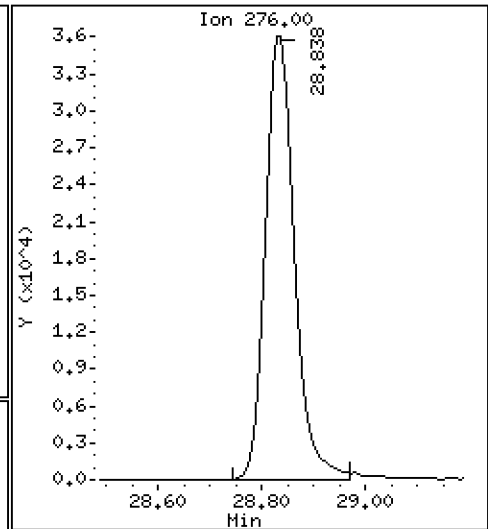
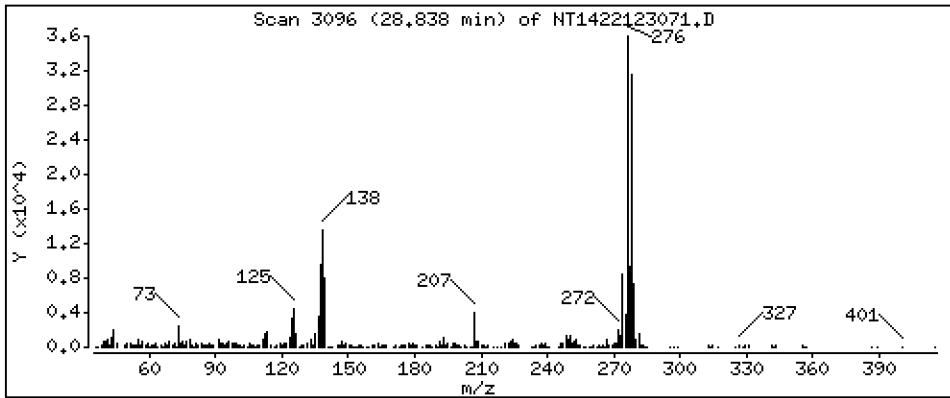
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,620 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

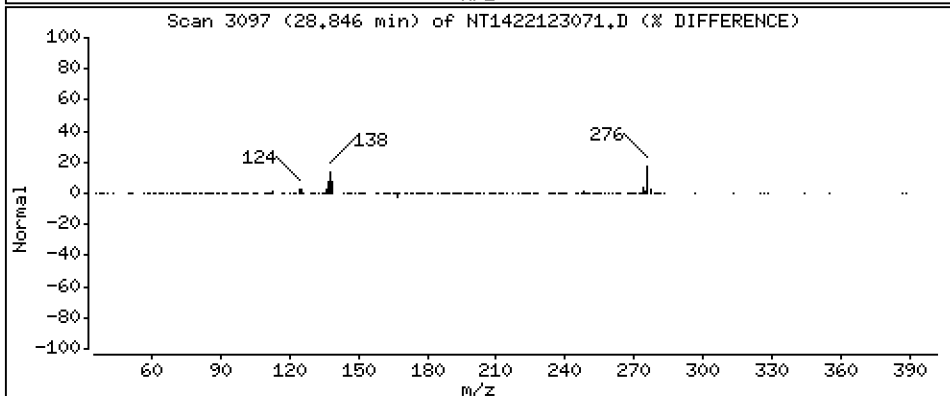
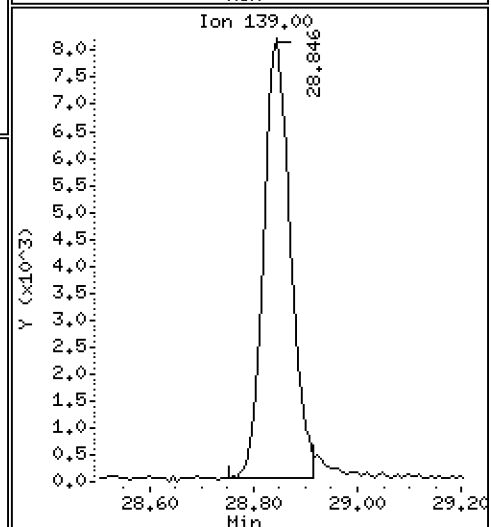
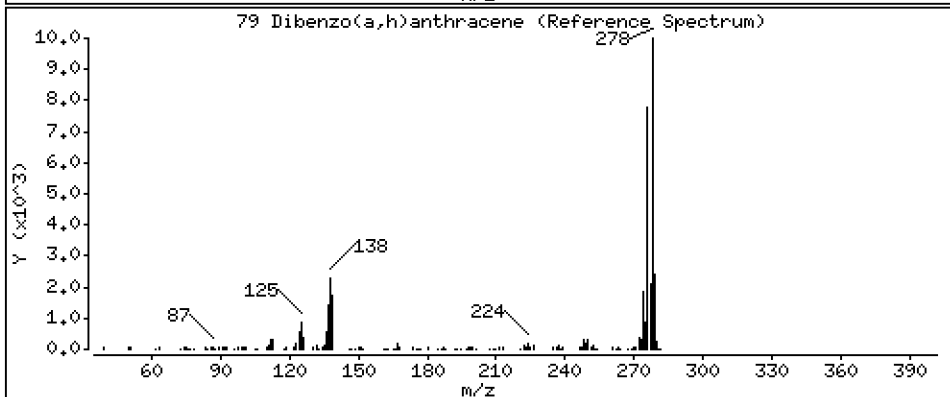
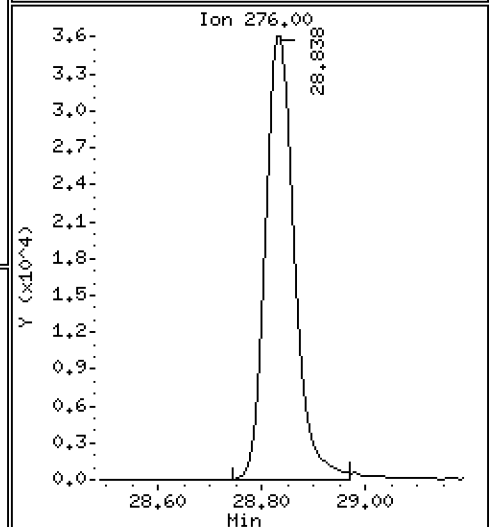
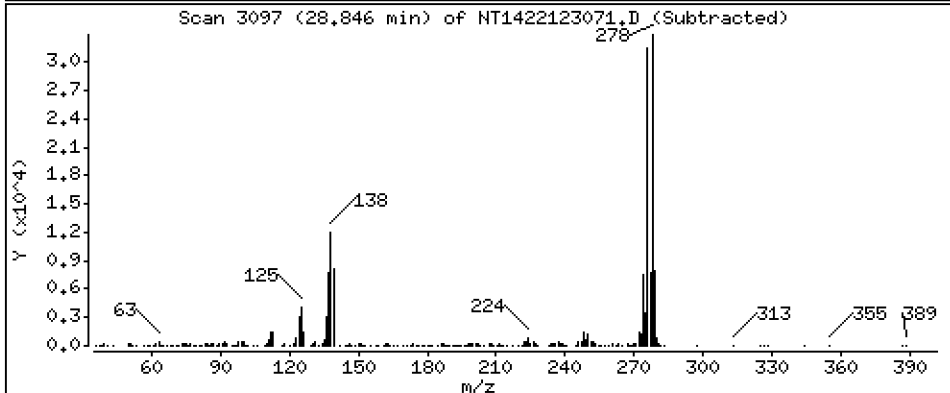
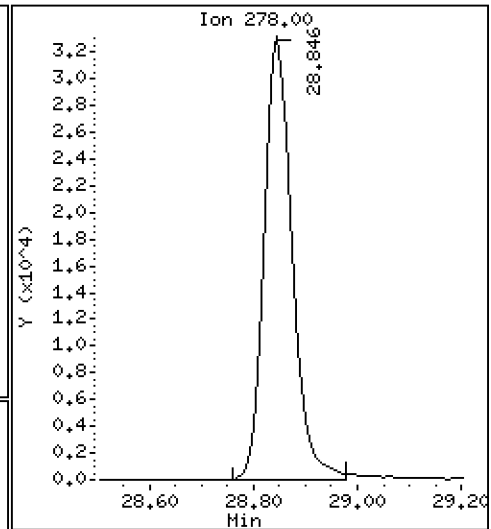
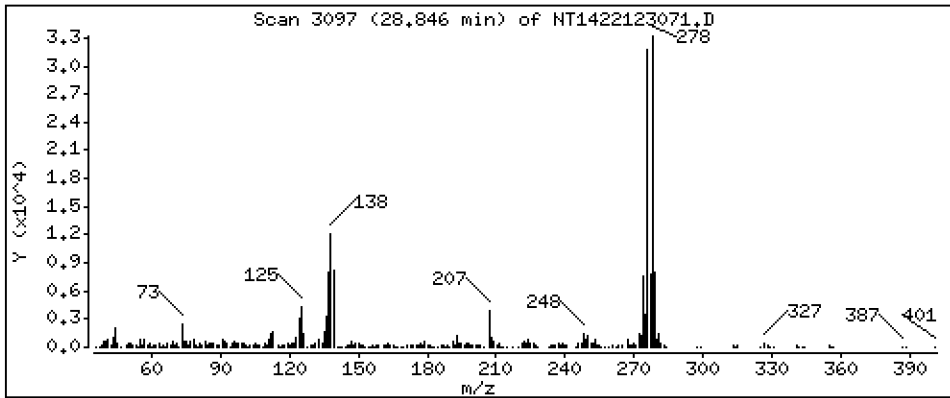
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,731 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

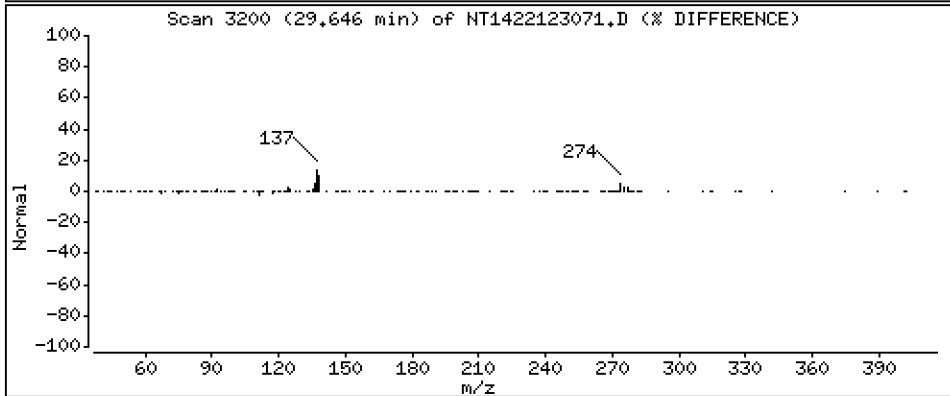
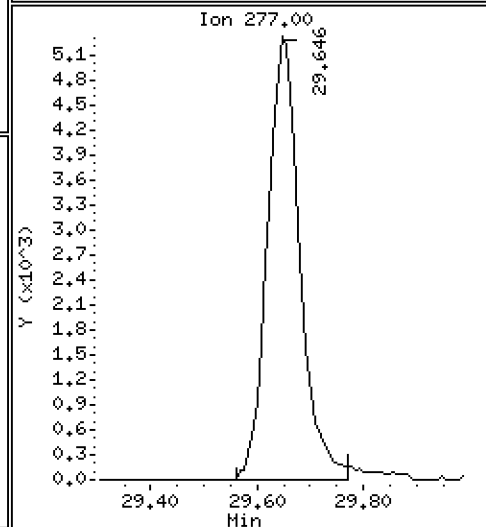
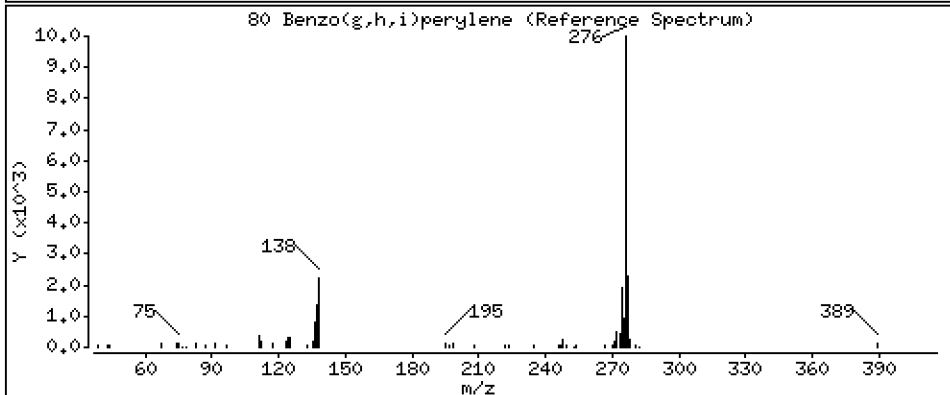
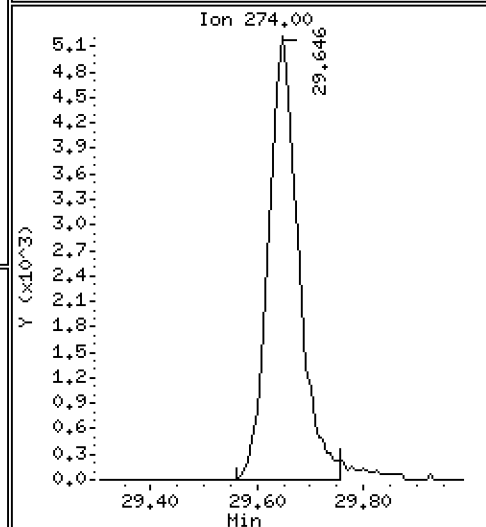
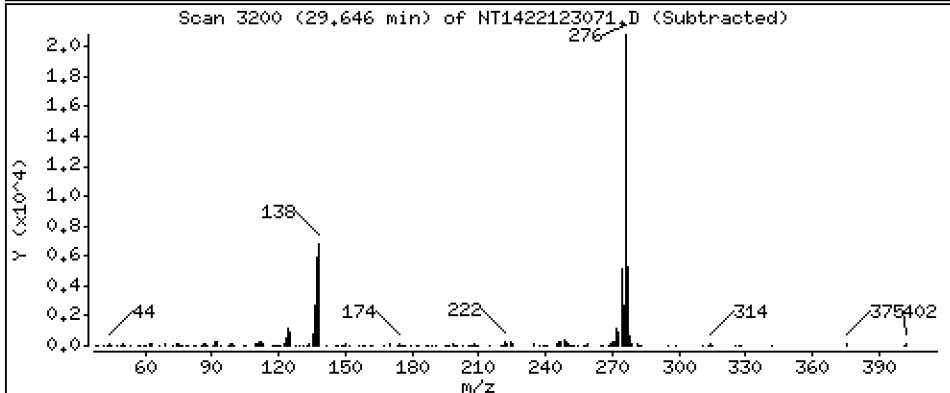
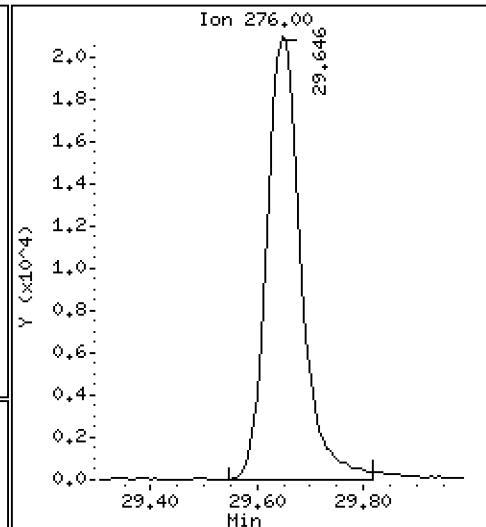
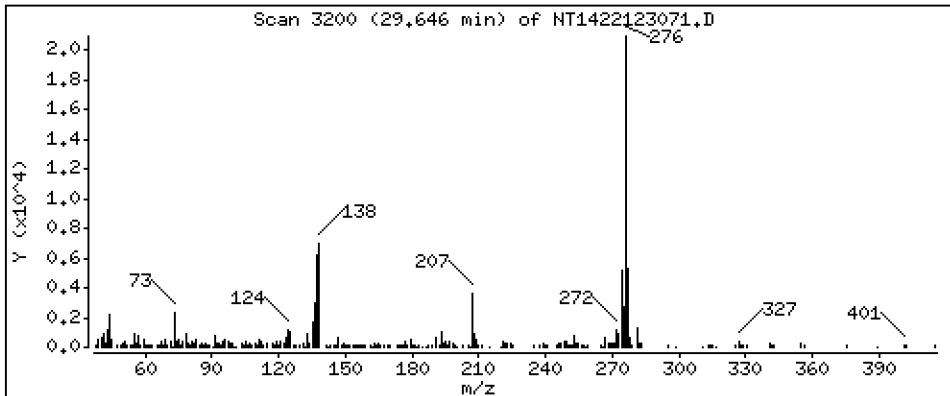
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,113 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

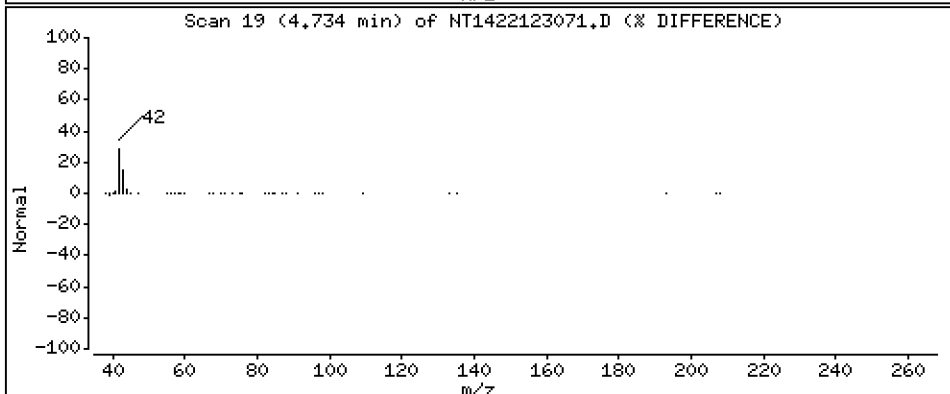
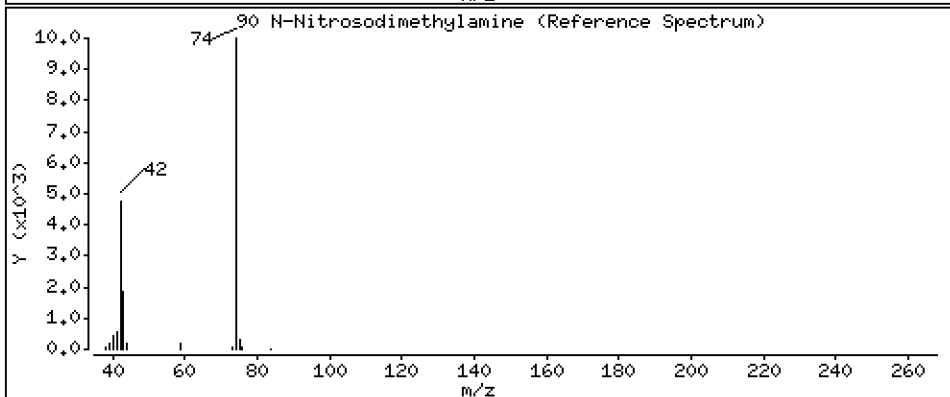
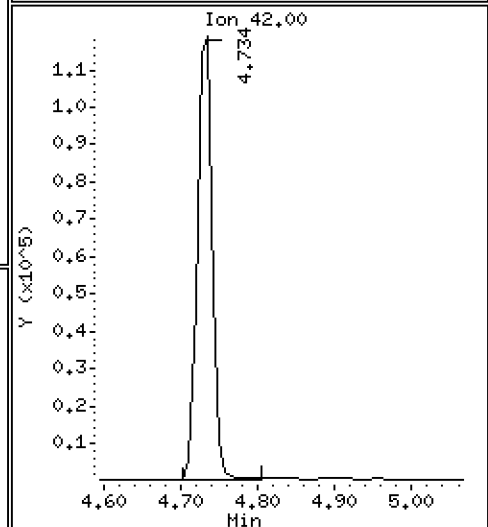
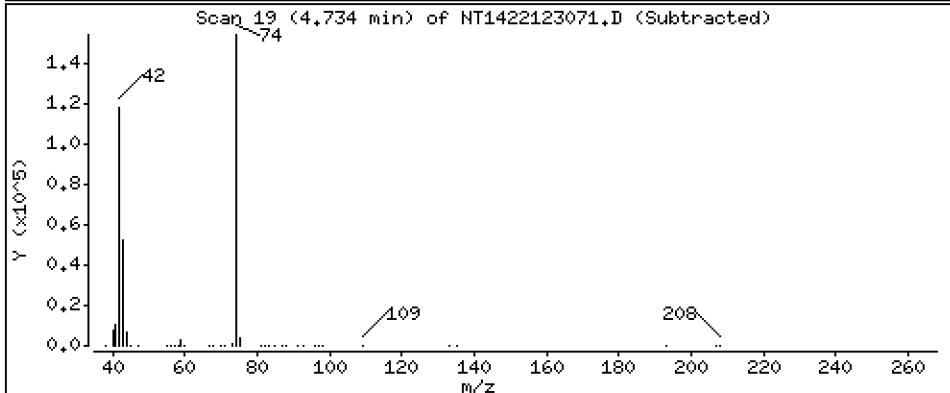
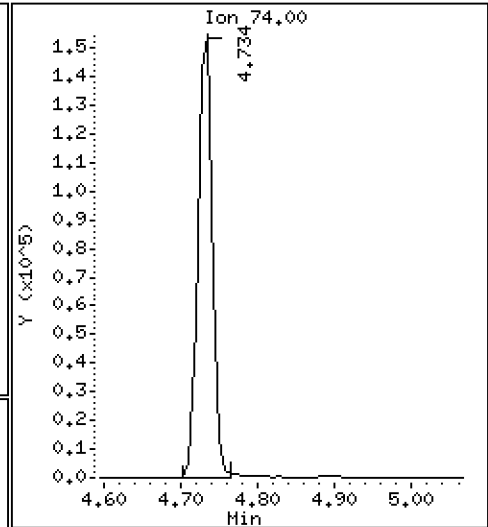
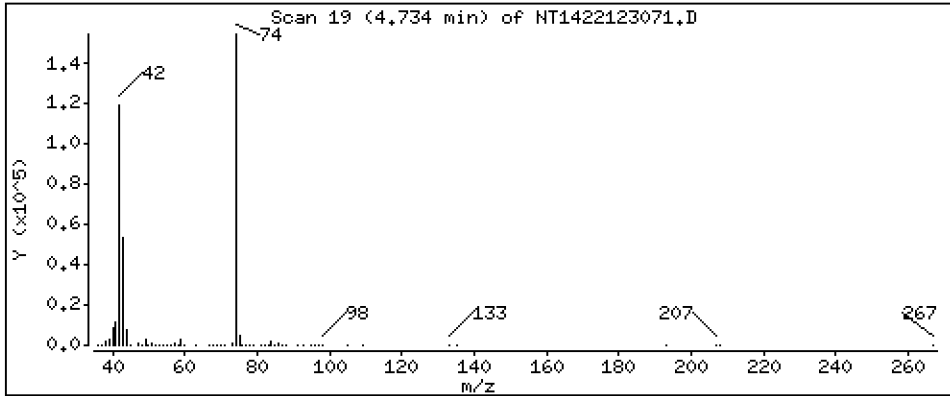
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 10,90 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

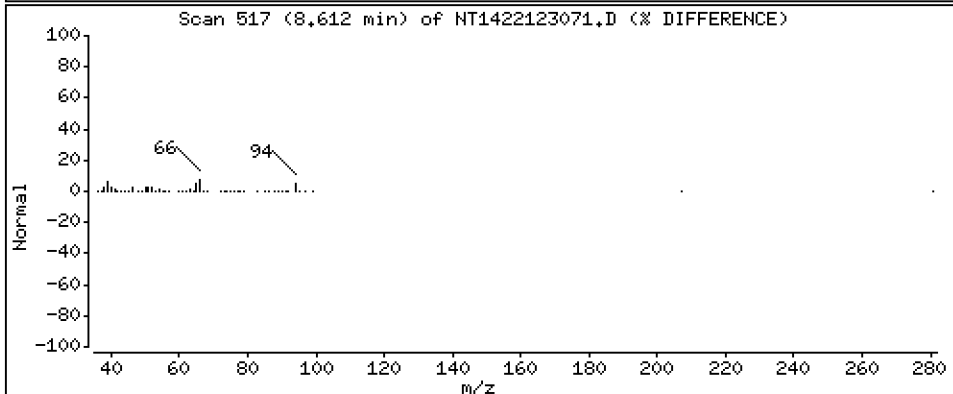
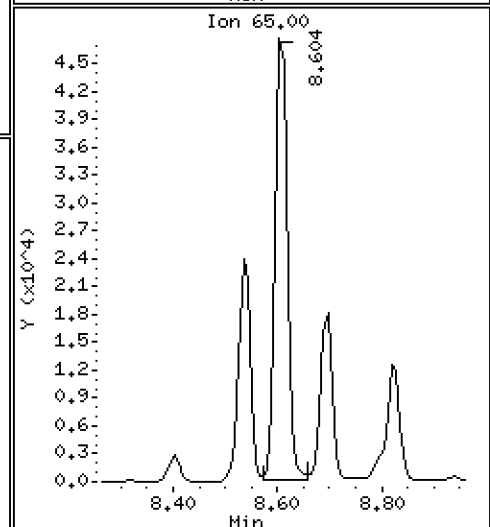
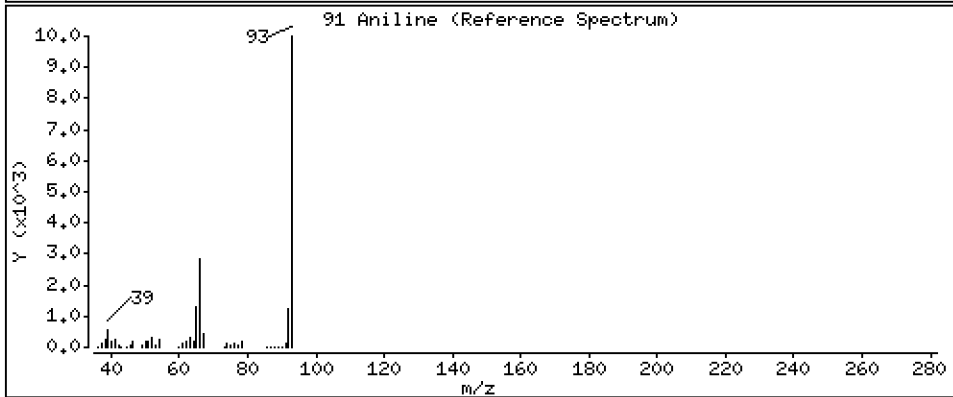
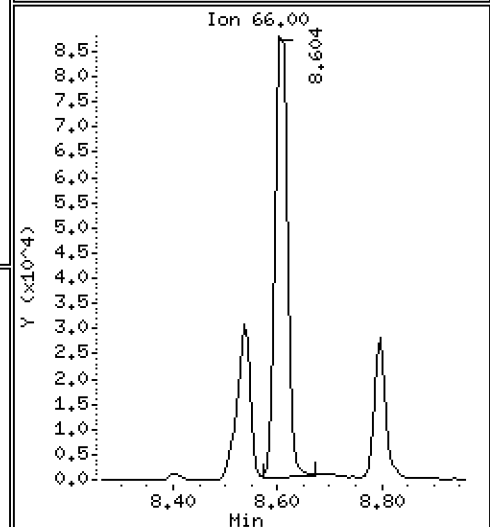
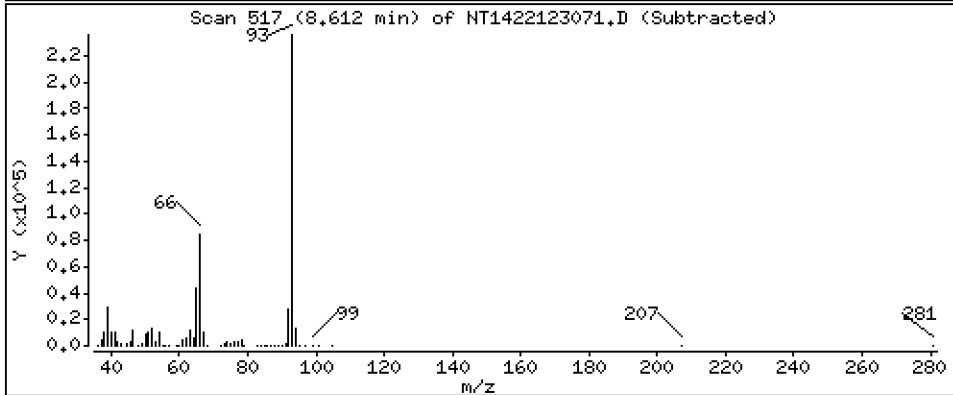
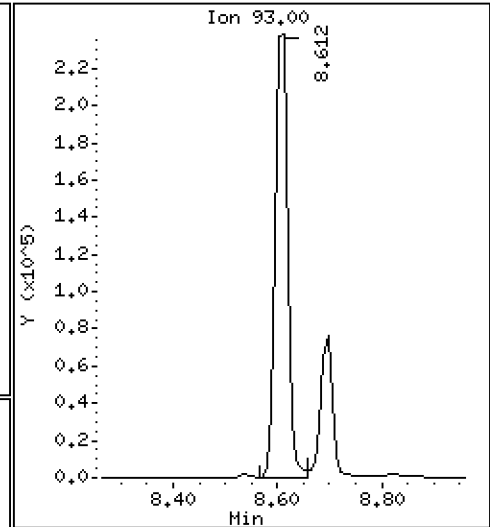
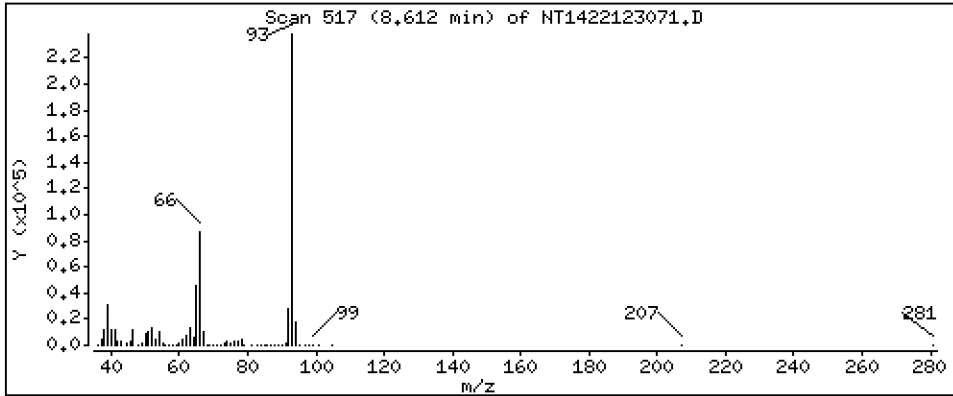
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 10,11 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

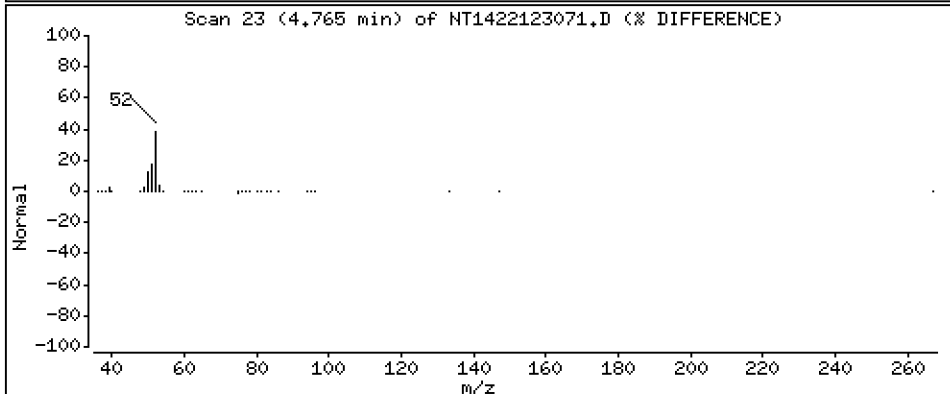
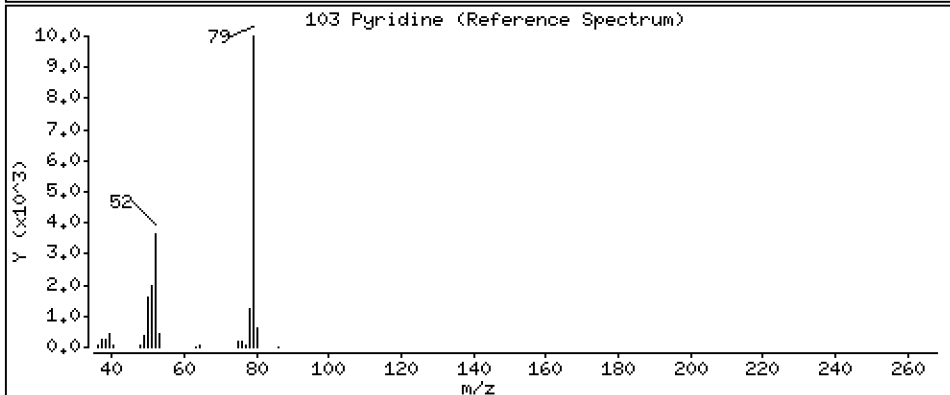
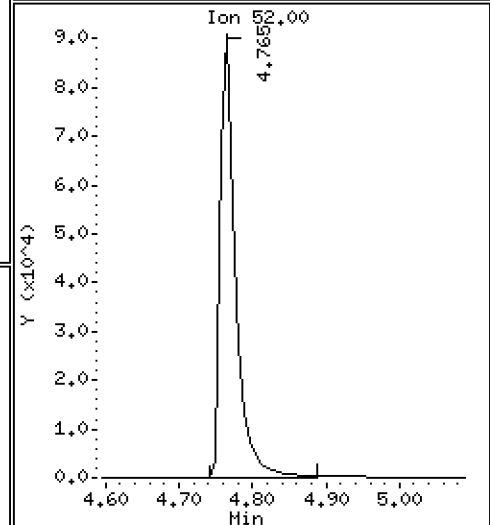
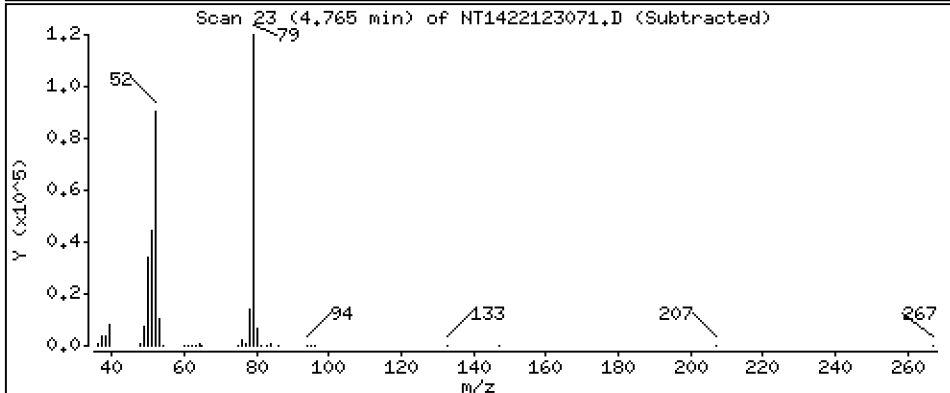
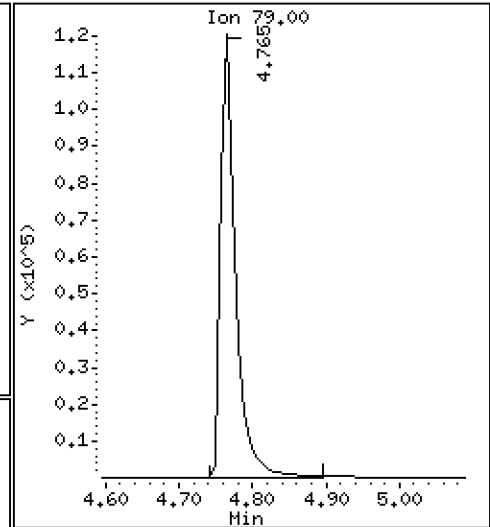
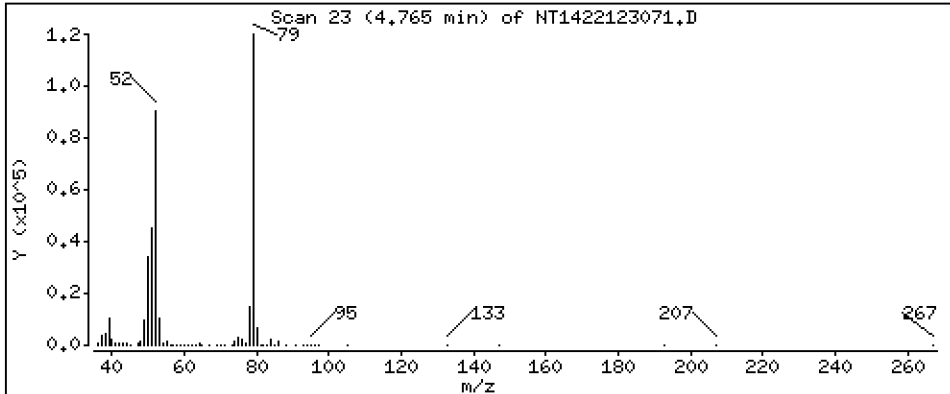
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,838 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

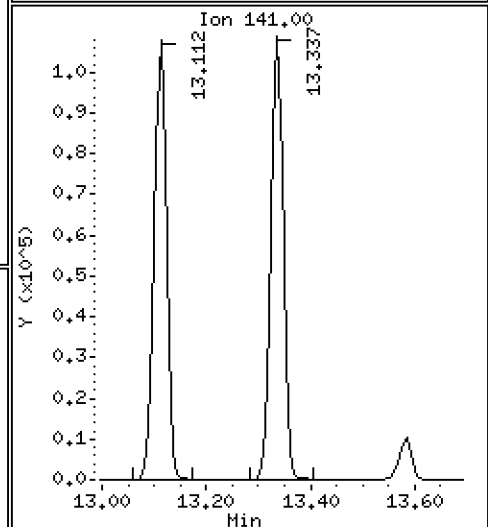
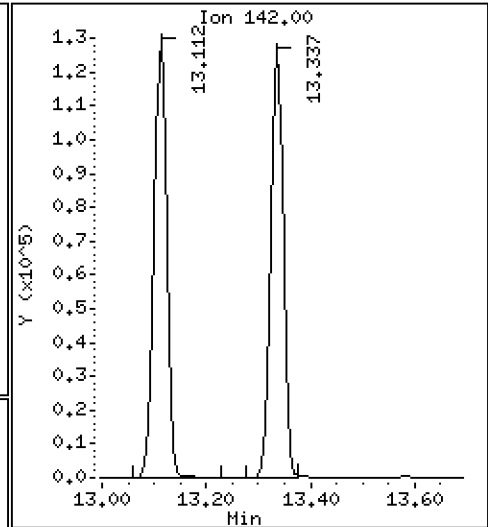
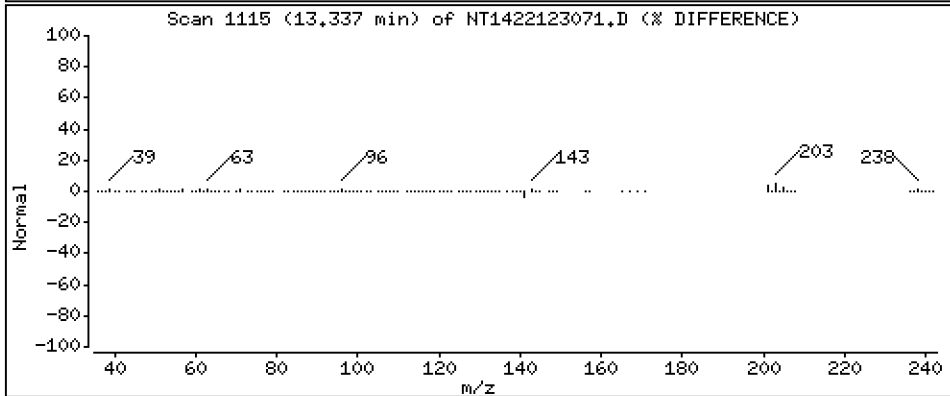
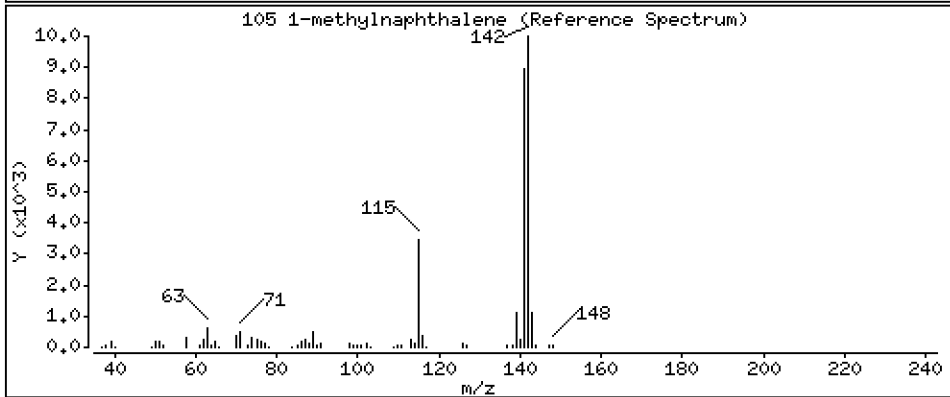
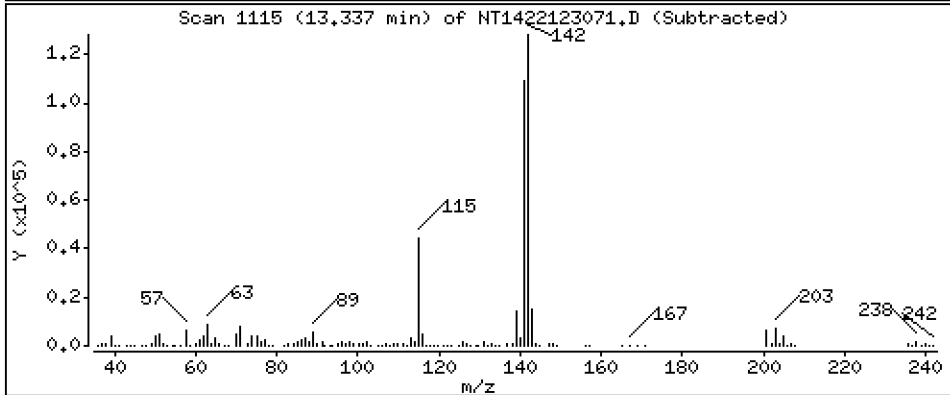
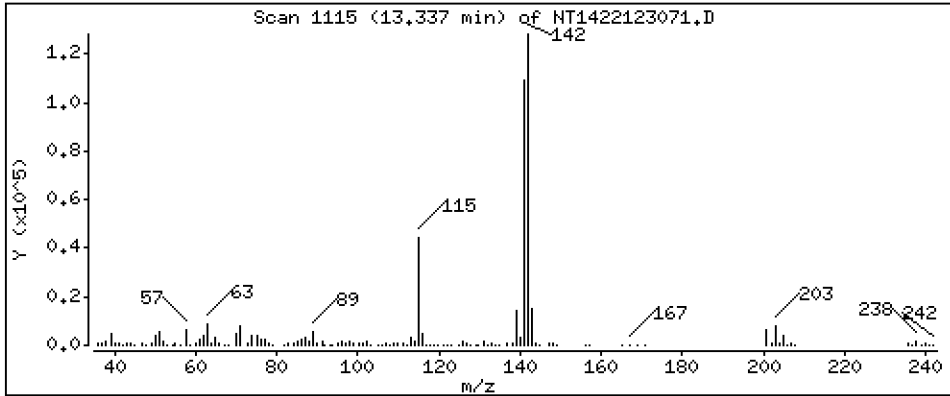
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 3,724 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

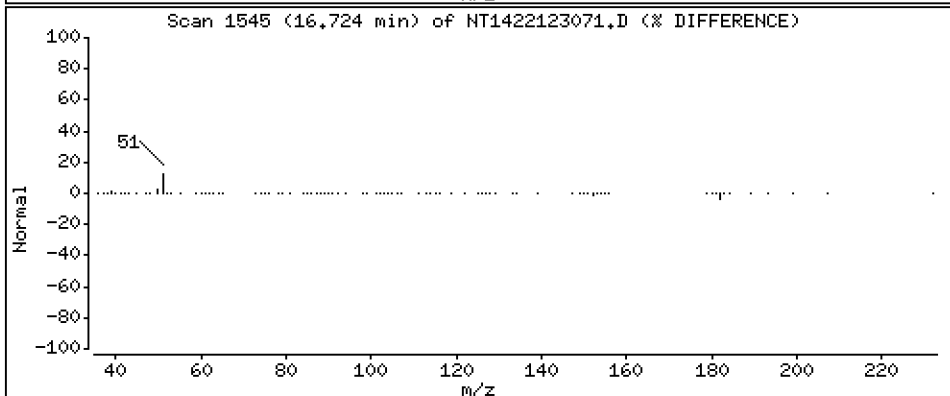
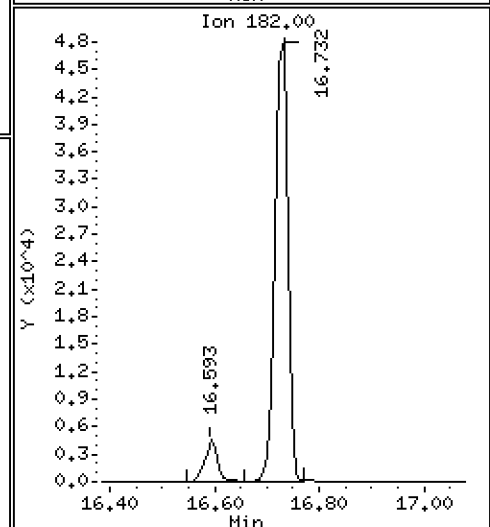
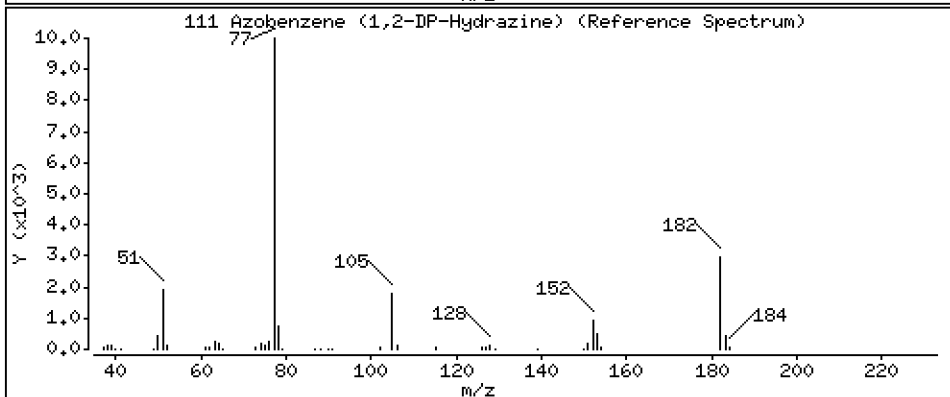
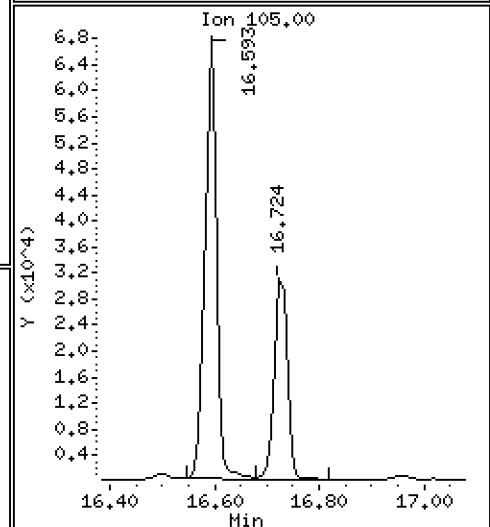
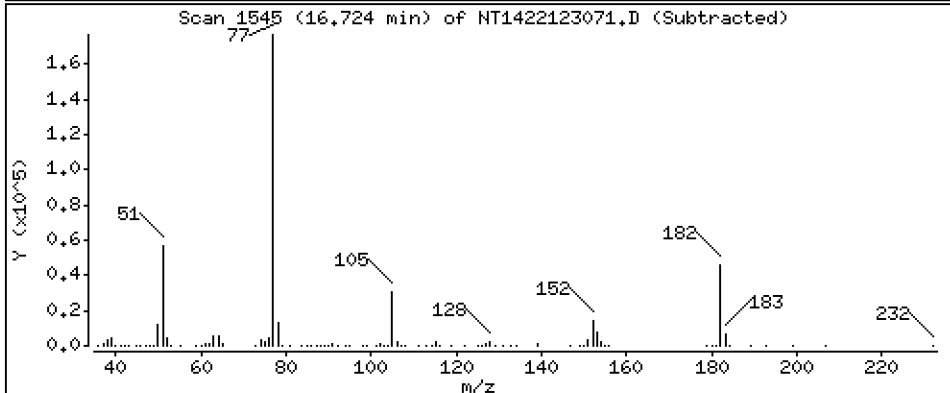
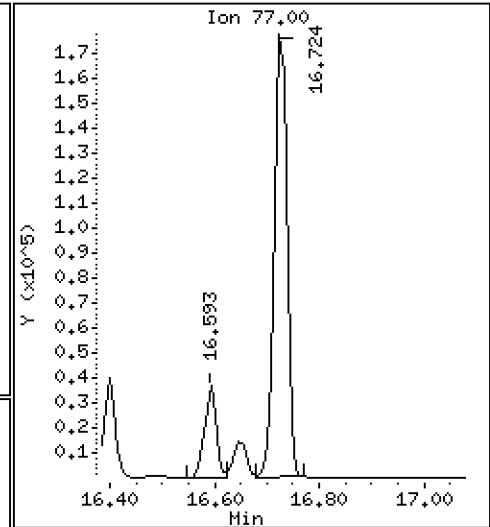
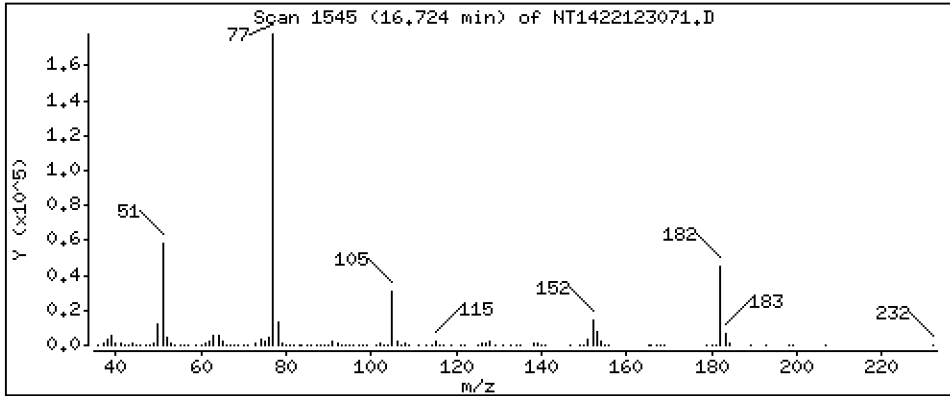
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.784 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

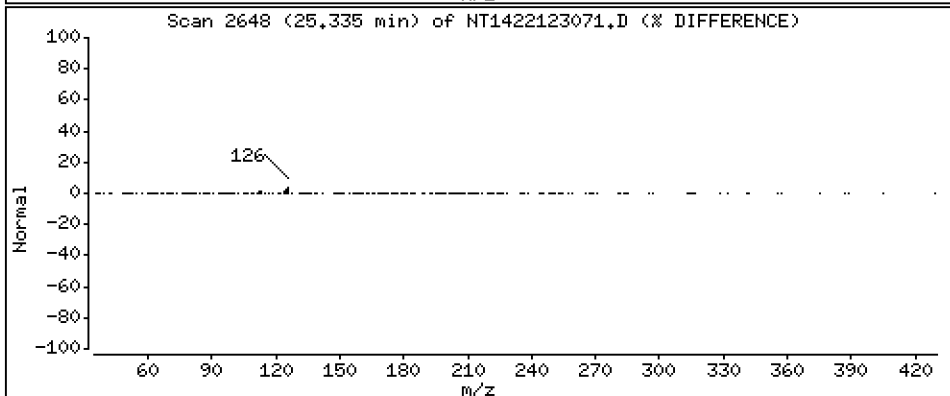
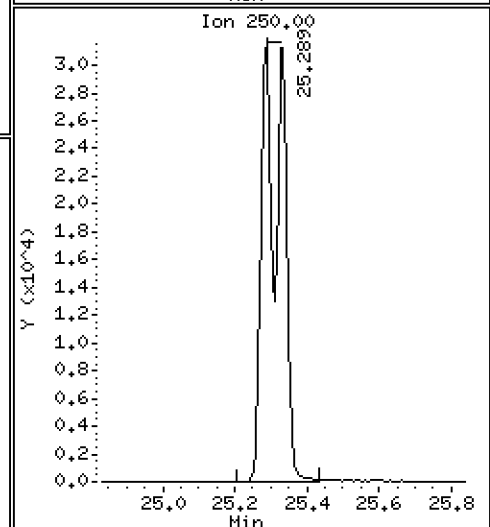
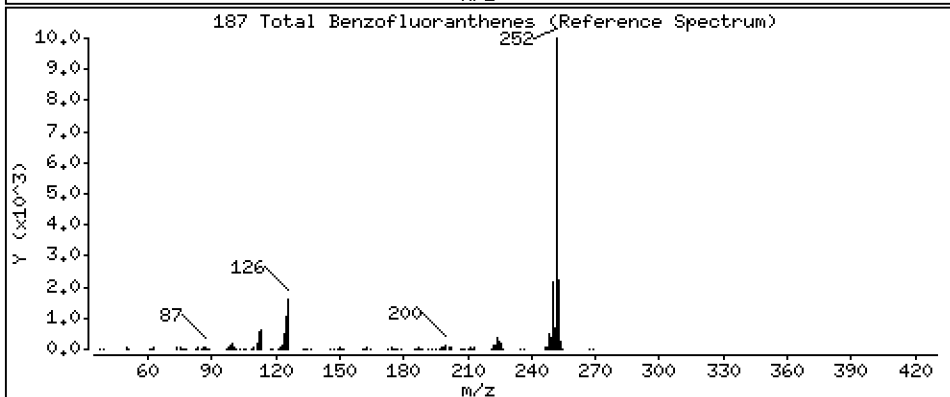
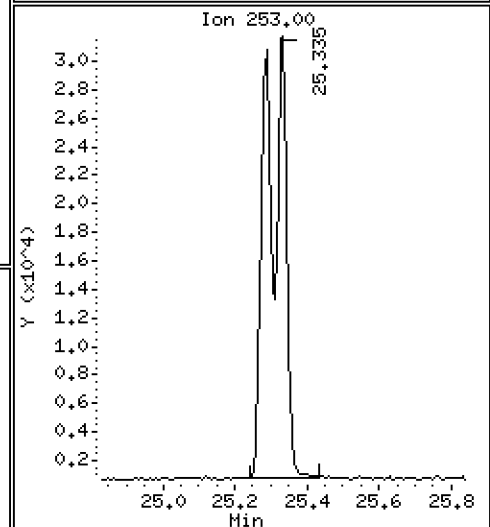
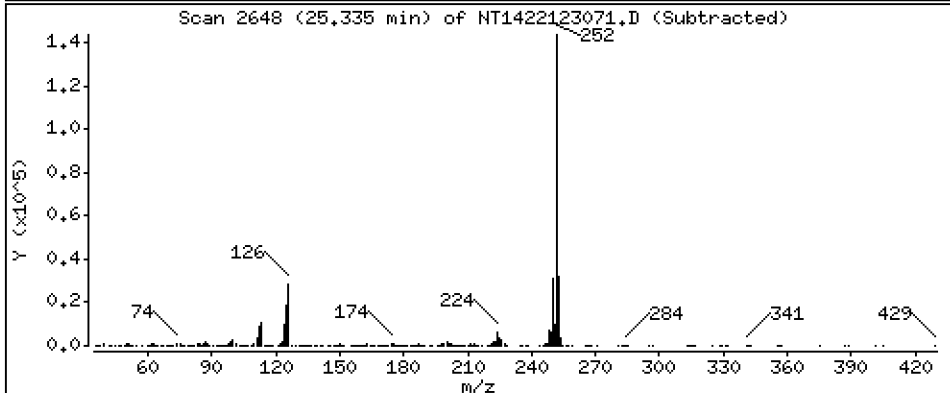
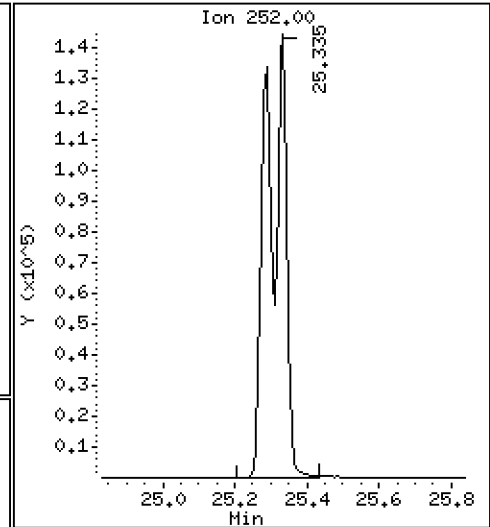
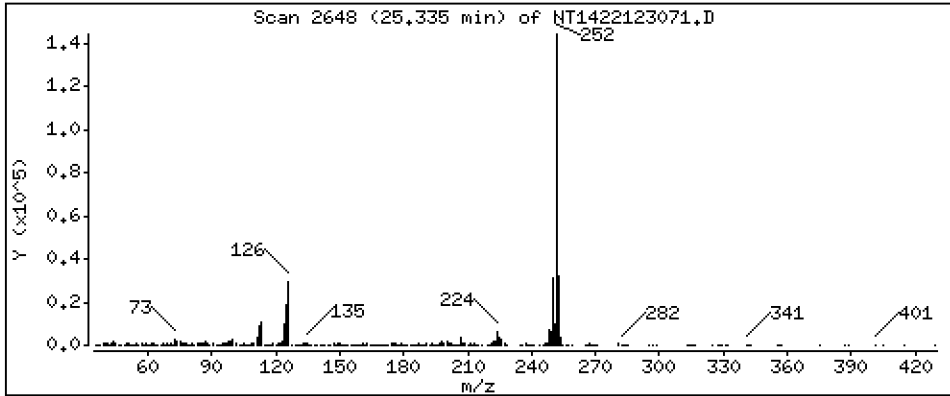
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,803 ug/mL



Date : 01-JAN-2023 02:29

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-BSD1

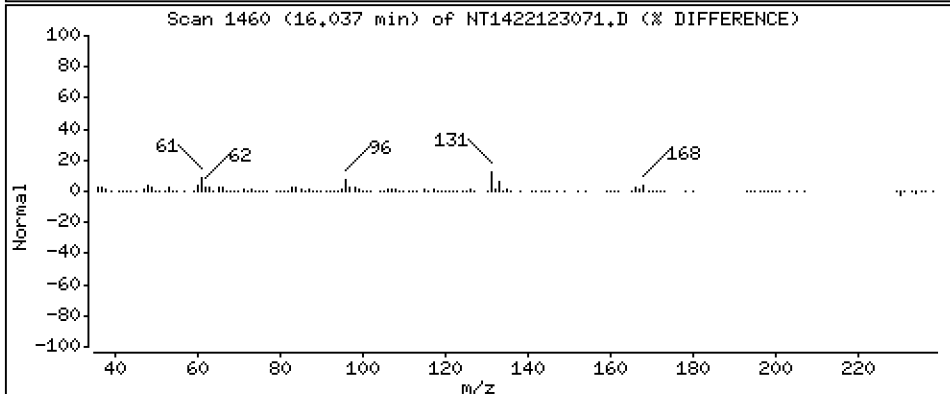
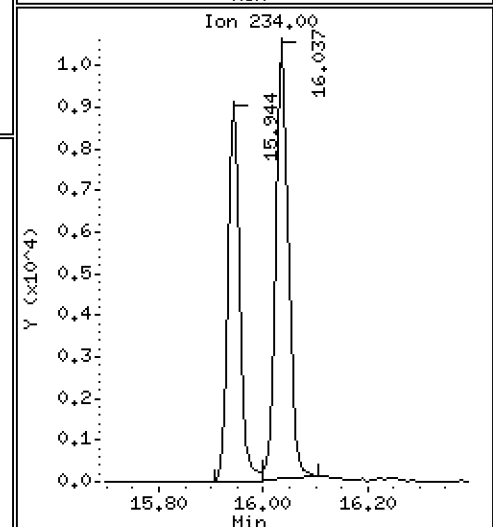
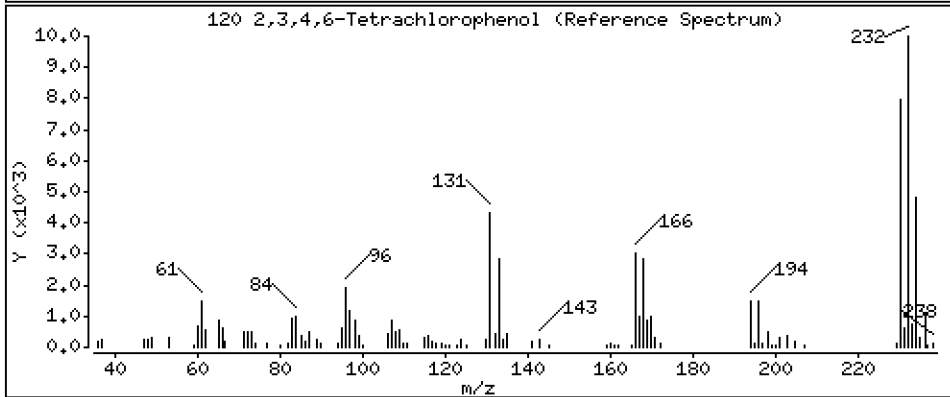
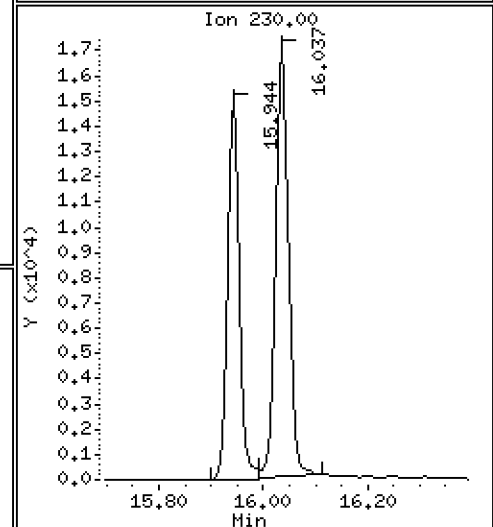
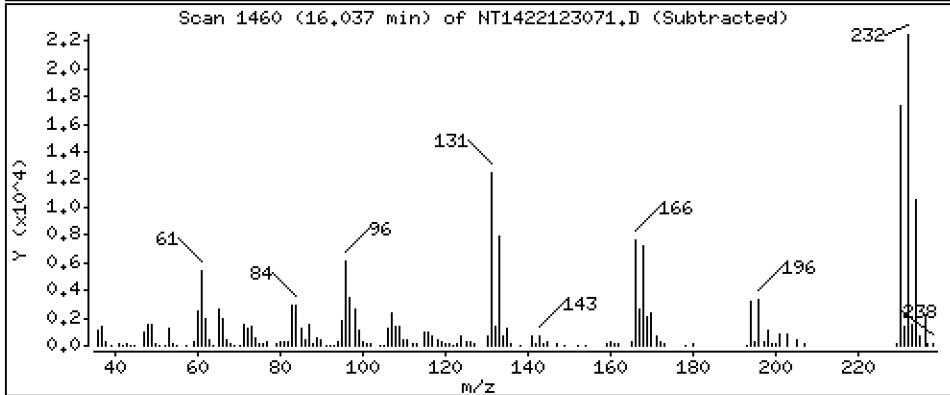
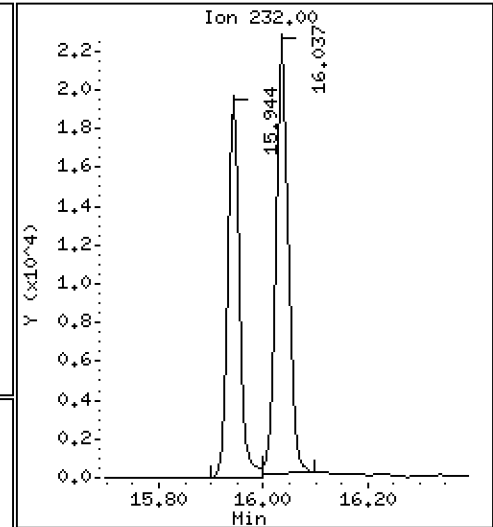
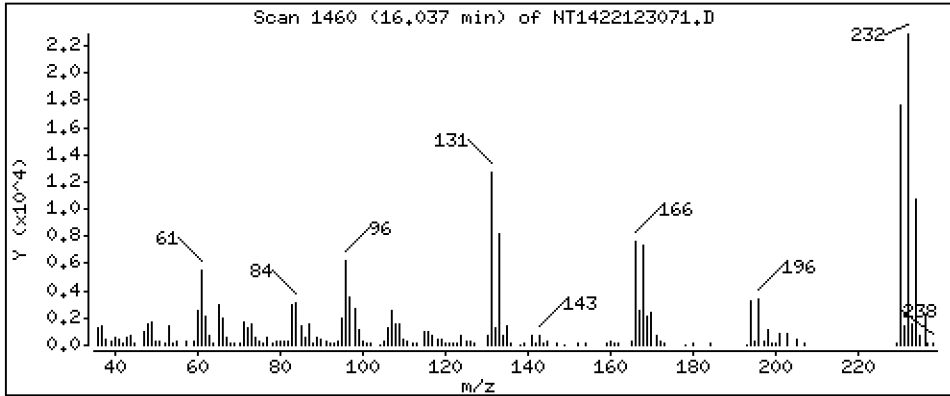
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 3,133 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123071.D
 Lab Smp Id: BKL0193-BSD1
 Inj Date : 01-JAN-2023 02:29 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : BKL0193-BSD1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 42
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.919	(0.756)	152542	5.61333	5.613
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	197767	5.88885	5.889
3 Phenol	94		8.534	8.542	(0.932)	128153	3.35829	3.358
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	164819	5.84367	5.844
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	112319	4.27276	4.273
6 2-Chlorophenol	128		8.828	8.827	(0.964)	105336	3.40061	3.401
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	114464	3.48483	3.485
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	84823	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	112468	3.61430	3.614
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	69841	3.62297	3.623
12 1,2-Dichlorobenzene	146		9.548	9.556	(1.042)	109602	3.59146	3.591
11 Benzyl alcohol	108		9.432	9.440	(1.030)	60341	3.55196	3.552
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	35557	4.01877	4.019
13 2-Methylphenol	108		9.657	9.665	(1.054)	85407	3.08007	3.080
17 Hexachloroethane	117		10.146	10.154	(1.108)	41078	3.58927	3.589
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	72507	4.29248	4.292
15 4-Methylphenol	108		9.936	9.936	(1.085)	97670	3.33895	3.339
\$ 18 Nitrobenzene-d5	82		10.255	10.262	(0.879)	111966	4.28550	4.285
19 Nitrobenzene	77		10.293	10.301	(0.882)	107003	4.12385	4.124
20 Isophorone	82		10.744	10.751	(0.921)	205440	6.21226	6.212
21 2-Nitrophenol	139		10.930	10.937	(0.937)	61576	3.76288	3.763
22 2,4-Dimethylphenol	107		10.984	10.992	(0.942)	233040	8.60530	8.605
23 Bis(2-Chloroethoxy)methane	93		11.178	11.186	(0.958)	117407	4.56370	4.564
24 Benzoic acid	105		11.178	11.209	(0.958)	278563	16.2861	16.29
25 2,4-Dichlorophenol	162		11.395	11.395	(0.977)	329411	14.4304	14.43
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	86031	3.48546	3.485
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	309397	4.00000	
28 Naphthalene	128		11.704	11.712	(1.003)	292709	3.84429	3.844
29 4-Chloroaniline	127		11.835	11.835	(1.015)	315898	10.0603	10.06
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	45967	3.75345	3.753
31 4-Chloro-3-methylphenol	107		12.802	12.810	(1.097)	326881	15.1741	15.17
32 2-Methylnaphthalene	142		13.112	13.120	(1.124)	208534	3.73370	3.734
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.888)	106259	8.84523	8.845

Compounds	QUANT		SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	201731	15.2084	15.21	
35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	218438	14.2687	14.27	
§ 36 2-Fluorobiphenyl	172	13.894	13.901	(0.908)	221307	4.14182	4.142	
37 2-Chloronaphthalene	162	14.110	14.118	(0.922)	180731	3.97598	3.976	
38 2-Nitroaniline	65	14.366	14.373	(0.939)	213367	17.8541	17.85	
39 Dimethylphthalate	163	14.799	14.799	(0.967)	209977	4.68515	4.685	
40 Acenaphthylene	152	14.985	14.993	(0.979)	292690	4.22292	4.223	
41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	169763	16.7844	16.78	
* 42 Acenaphthene-d10	164	15.302	15.310	(1.000)	158920	4.00000		
43 3-Nitroaniline	138	15.225	15.225	(0.995)	172658	14.0450	14.04	
44 Acenaphthene	153	15.372	15.371	(1.005)	186604	4.34079	4.341	
45 2,4-Dinitrophenol	184	15.433	15.441	(1.009)	105087	11.9071	11.91	
46 Dibenzofuran	168	15.696	15.704	(1.026)	261693	4.05941	4.059	
47 4-Nitrophenol	109	15.549	15.557	(1.016)	81211	13.3807	13.38	
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	220155	15.8646	15.86	
50 Diethylphthalate	149	16.261	16.268	(1.063)	328604	5.39431	5.394	
49 Fluorene	166	16.415	16.423	(1.073)	322490	4.70244	4.702	
51 4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	154511	4.60197	4.602	
52 4-Nitroaniline	138	16.500	16.500	(1.078)	213550	13.9576	13.96	
53 4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	240532	21.1805	21.18	
54 N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	197052	4.45289	4.453	
§ 55 2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	46672	6.07035	6.070	
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	74055	4.41941	4.419	
57 Hexachlorobenzene	284	17.727	17.734	(0.966)	74286	4.03976	4.040	
58 Pentachlorophenol	266	18.090	18.090	(0.986)	58859	7.13116	7.131	
* 59 Phenanthrene-d10	188	18.353	18.361	(1.000)	257888	4.00000		
60 Phenanthrene	178	18.400	18.408	(1.003)	285890	4.25184	4.252	
61 Anthracene	178	18.493	18.500	(1.008)	244457	3.80836	3.808	
62 Carbazole	167	18.825	18.825	(1.026)	245016	3.94844	3.948	
63 Di-n-butylphthalate	149	19.607	19.614	(1.068)	353250	4.84658	4.847	
64 Fluoranthene	202	20.783	20.791	(0.888)	311028	4.54495	4.545	
65 Pyrene	202	21.208	21.216	(0.906)	320127	4.44916	4.449	
§ 66 Terphenyl-d14	244	21.487	21.495	(0.918)	225340	4.41681	4.417	
67 Butylbenzylphthalate	149	22.401	22.408	(0.957)	147564	5.33509	5.335	
68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	293742	4.56235	4.562	
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	212537	4.00000		
70 3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	291079	14.7685	14.77	
71 Chrysene	228	23.438	23.446	(1.002)	272423	4.47946	4.479	
72 bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	218617	5.54099	5.541	
* 134 Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	355260	4.00000		
73 Di-n-octylphthalate	149	24.429	24.429	(1.001)	382592	4.48643	4.486	
74 Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	282593	5.00956	5.010	
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	276047	4.80794	4.808	
76 Benzo(a)pyrene	252	25.962	25.970	(0.996)	214652	4.57736	4.577	
* 77 Perylene-d12	264	26.078	26.086	(1.000)	179497	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	139656	2.61978	2.620	
79 Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	123720	2.73112	2.731	
80 Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	94375	2.11330	2.113	
90 N-Nitrosodimethylamine	74	4.734	4.718	(0.517)	203950	10.8974	10.90	
91 Aniline	93	8.611	8.611	(0.940)	375705	10.1116	10.11	
93 Benzidine	184	Compound Not Detected.						
103 Pyridine	79	4.765	4.741	(0.520)	168797	2.83835	2.838	
105 1-methylnaphthalene	142	13.336	13.344	(1.143)	199857	3.72423	3.724	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	282308	4.78360	4.784	

Compounds	QUANT MASS	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252		25.335	25.335	(0.971)	534627	9.80298	9.803
120 2,3,4,6-Tetrachlorophenol	232		16.036	16.044	(1.048)	35947	3.13273	3.133

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123071.D Calibration Time: 23:30
 Lab Smp Id: BKL0193-BSD1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	84823	-38.87
27 Naphthalene-d8	501723	250862	1003446	309397	-38.33
42 Acenaphthene-d10	275234	137617	550468	158920	-42.26
59 Phenanthrene-d10	440085	220043	880170	257888	-41.40
69 Chrysene-d12	384795	192398	769590	212537	-44.77
134 Di-n-octylphthala	674530	337265	1349060	355260	-47.33
77 Perylene-d12	336665	168333	673330	179497	-46.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123071.D

Lab ID: BKL0193-BSD1
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 02:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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



STANDARD REFERENCE MATERIAL RECOVERY
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0193-SRM1

Batch: BKL0193

Initial/Final: 1 g / 1 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 01/01/2023 3:05

Standard ID: K000591

Expires: 07/17/2022

Standard Lot#: CRM 143 (LRAC8918)

Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
4-Methylphenol	6617.0	5190	73.9	200		78.5	40 - 160

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123072.D

Date: 01-JAN-2023 03:05

Client ID:

Sample Info: BKL0193-SRM1

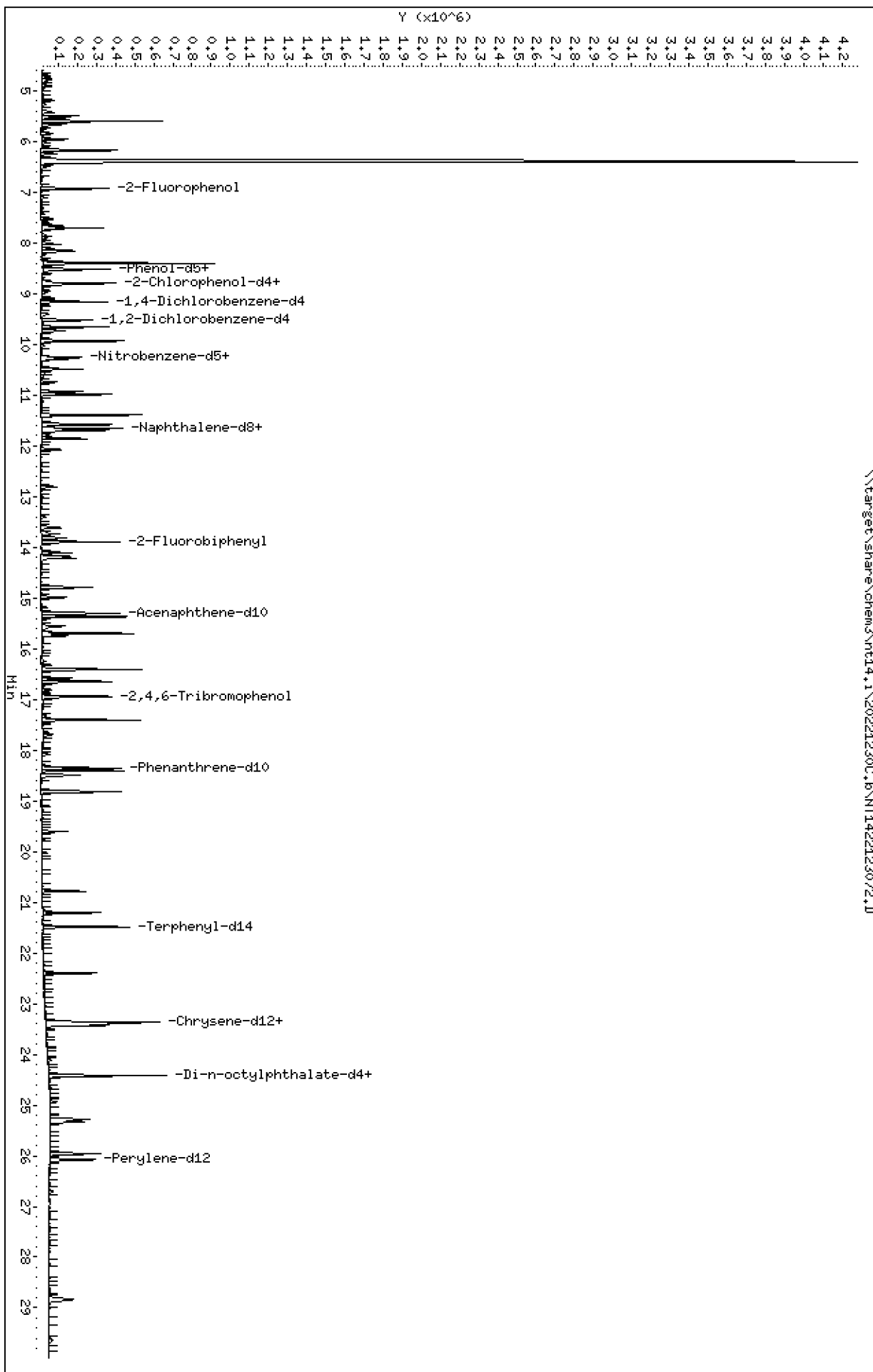
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123072.D



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

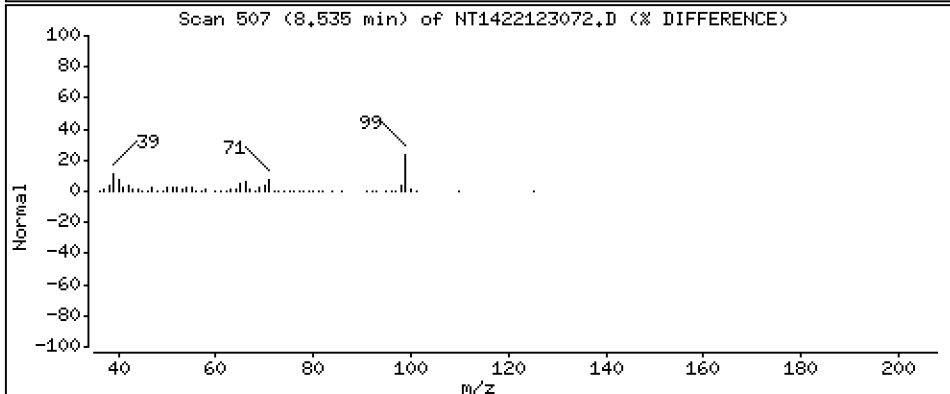
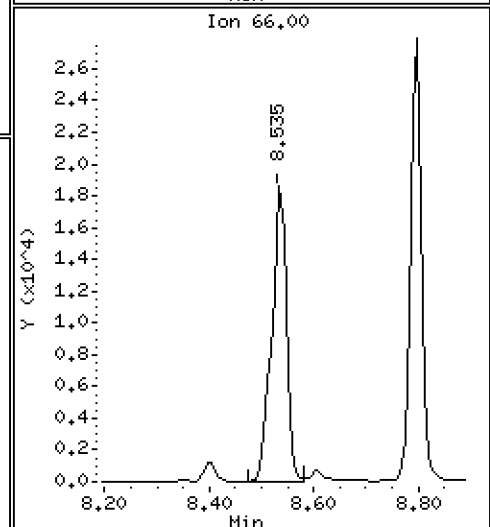
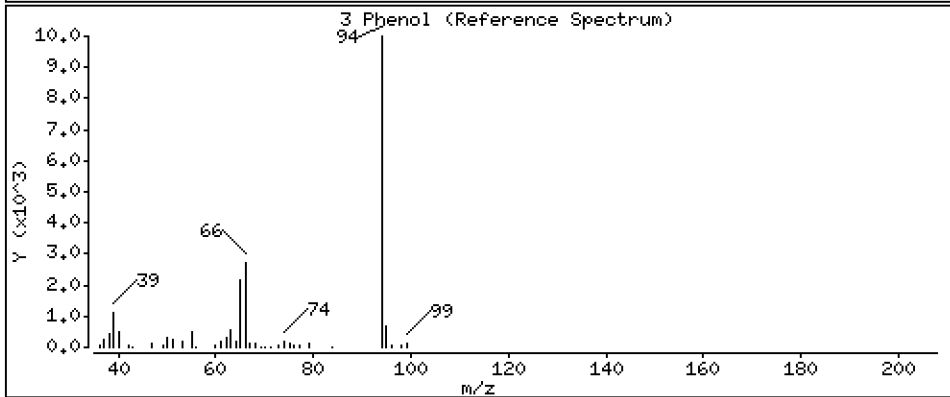
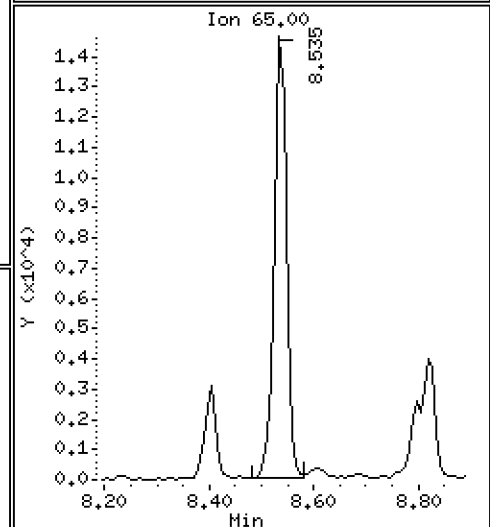
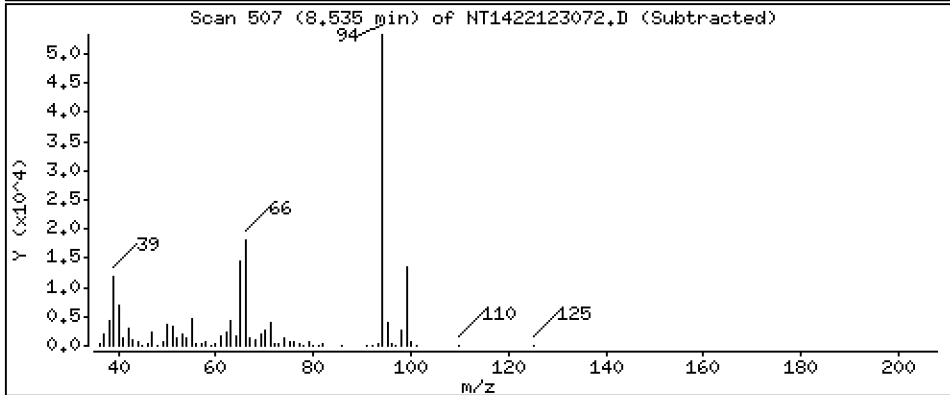
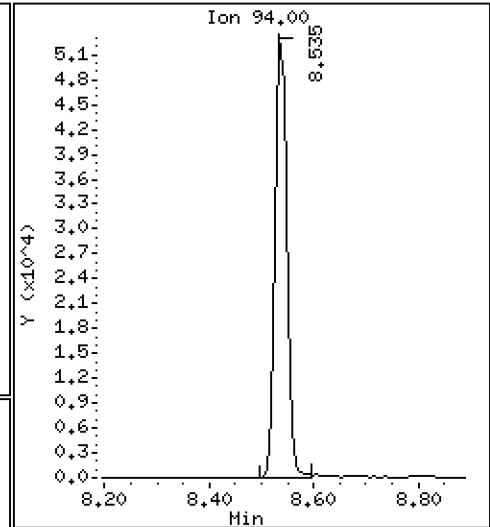
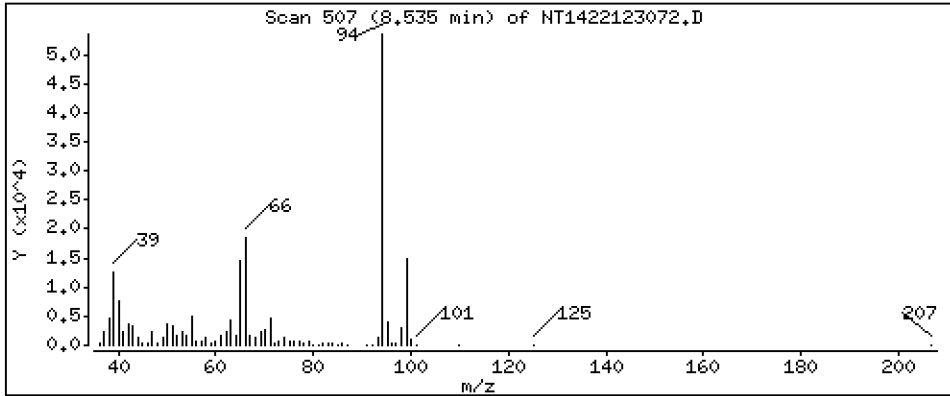
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 2,008 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

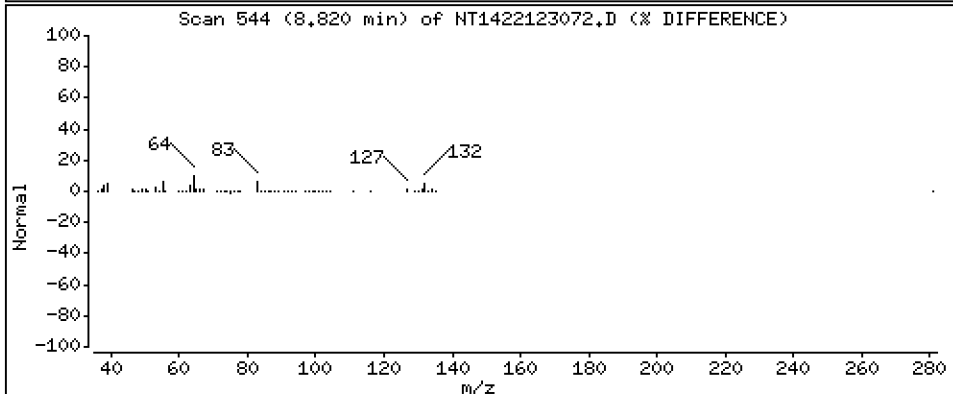
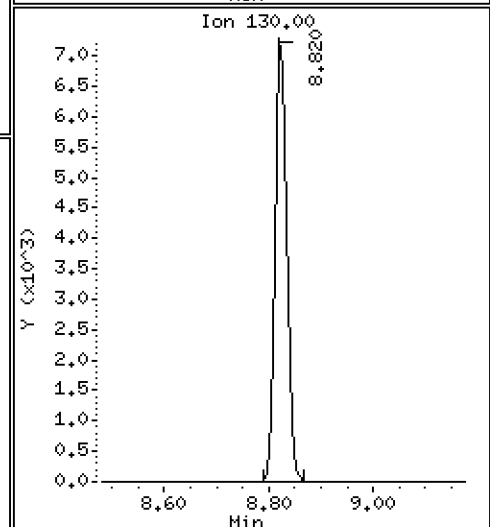
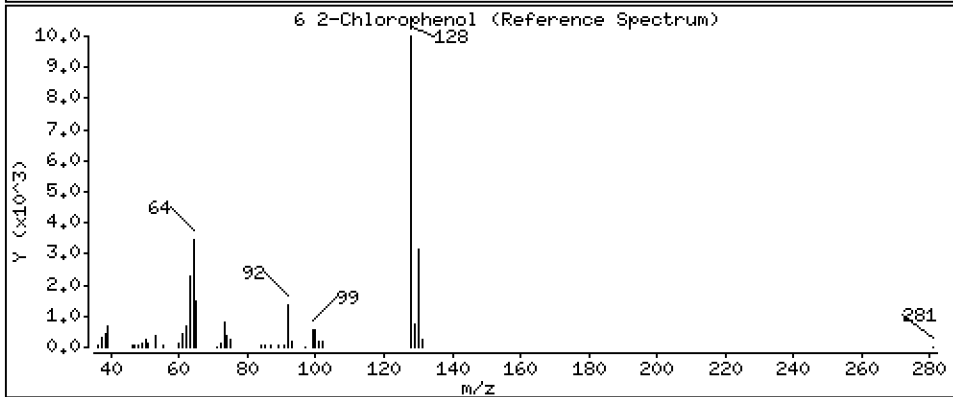
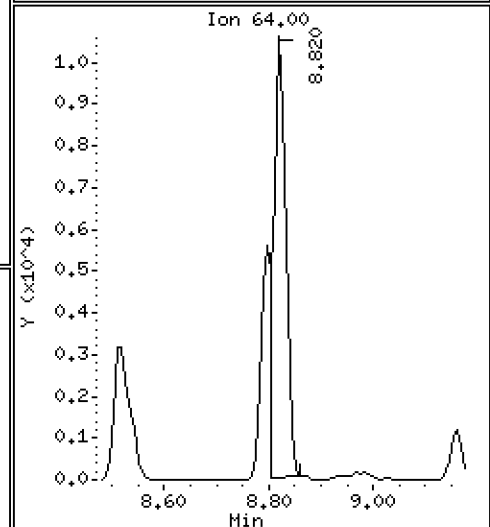
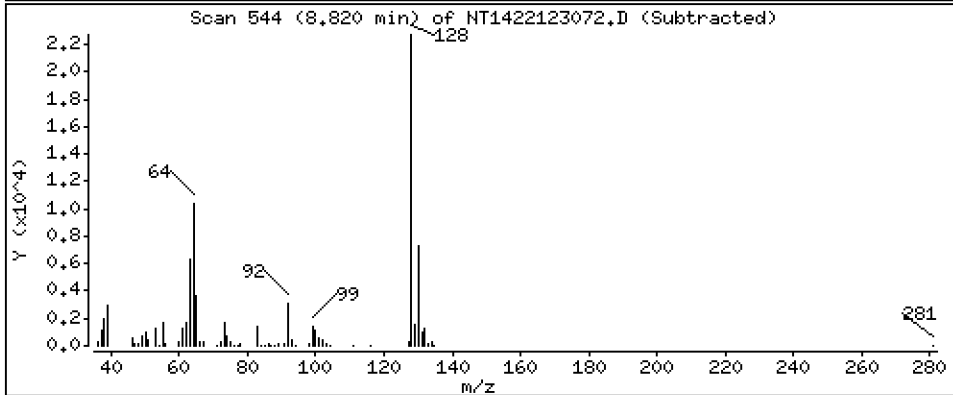
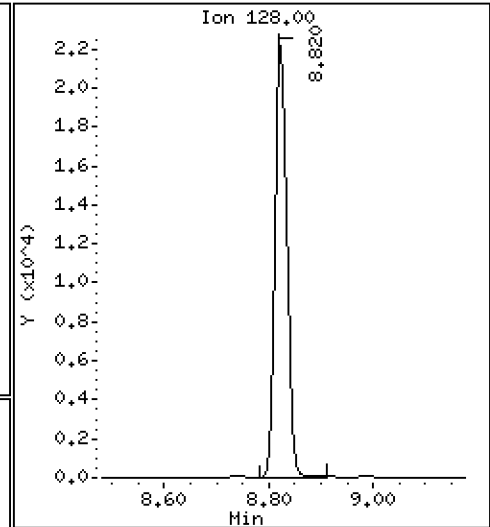
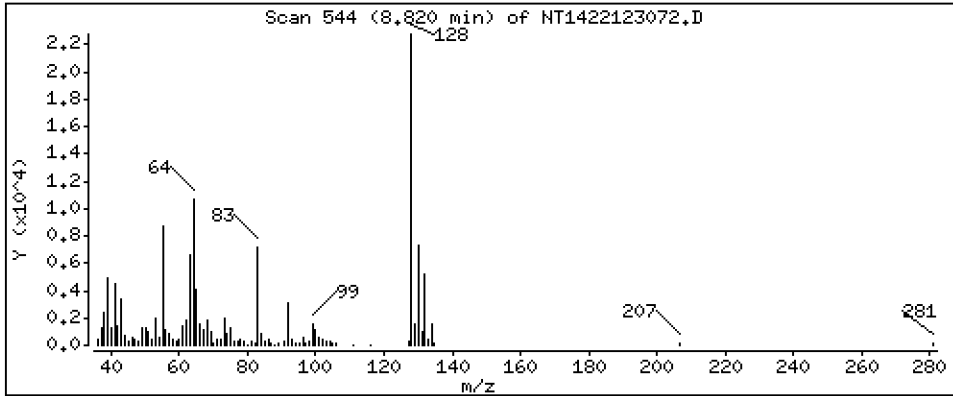
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 1,076 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

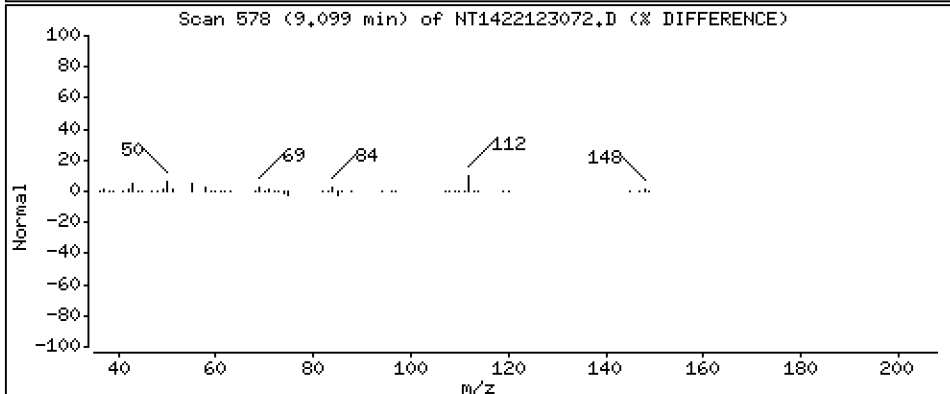
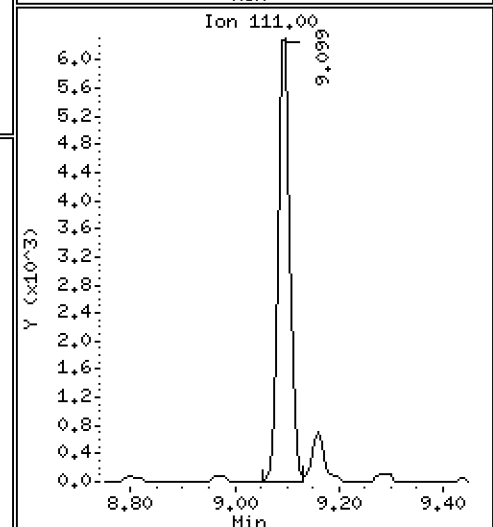
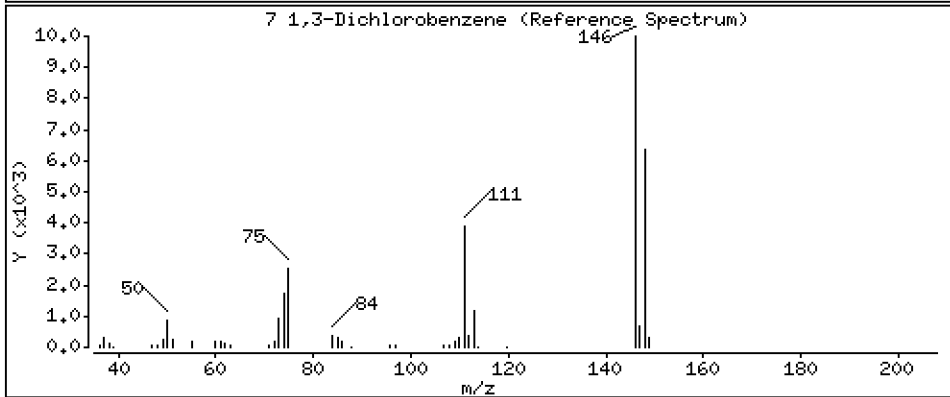
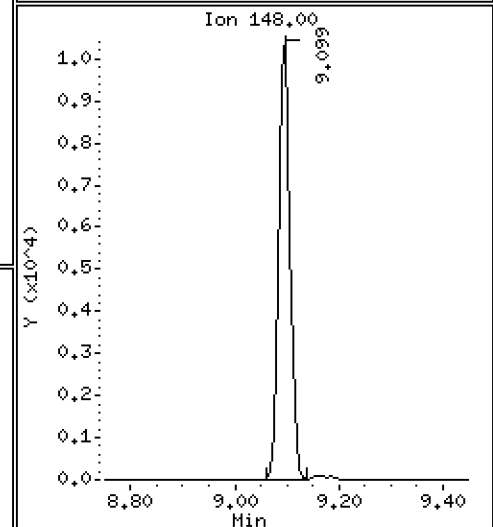
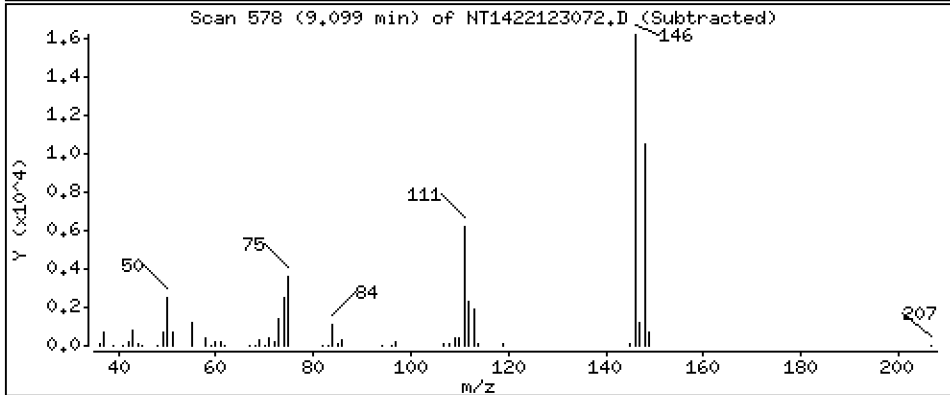
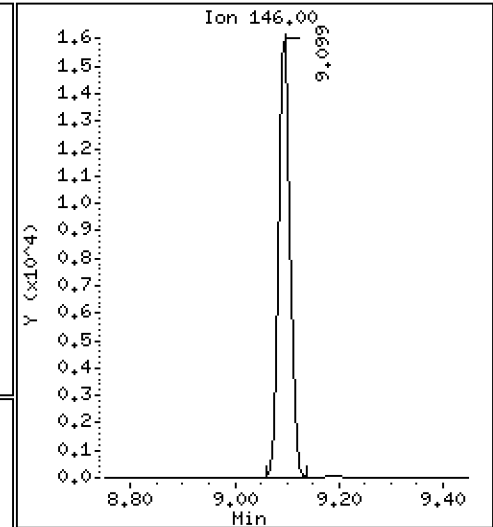
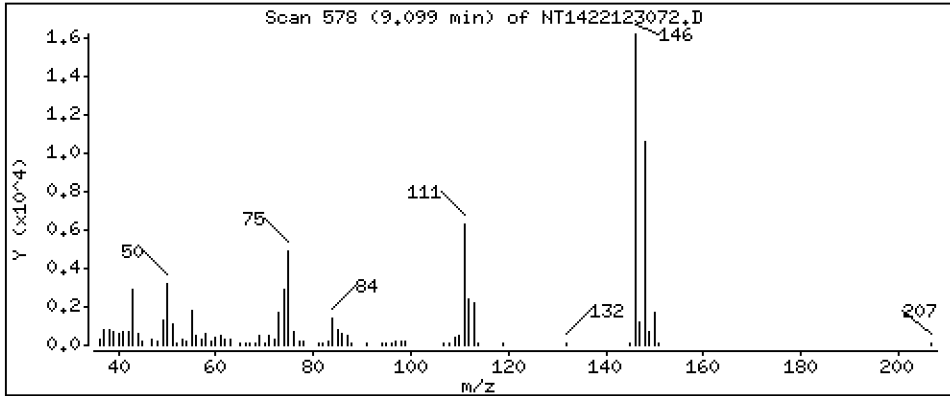
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,7357 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

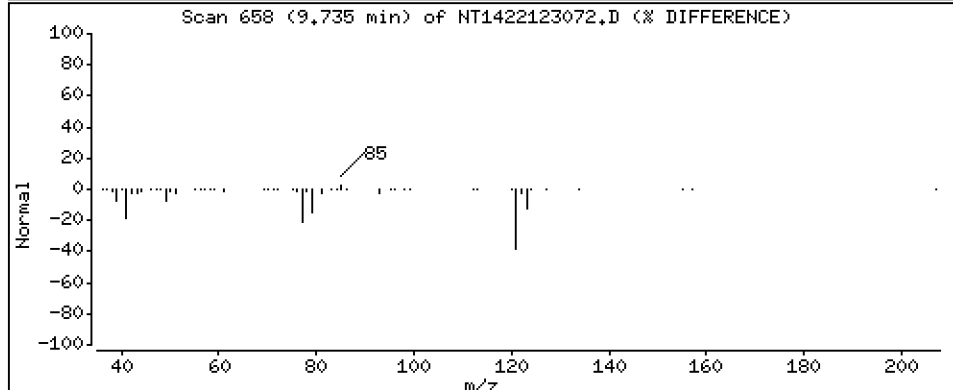
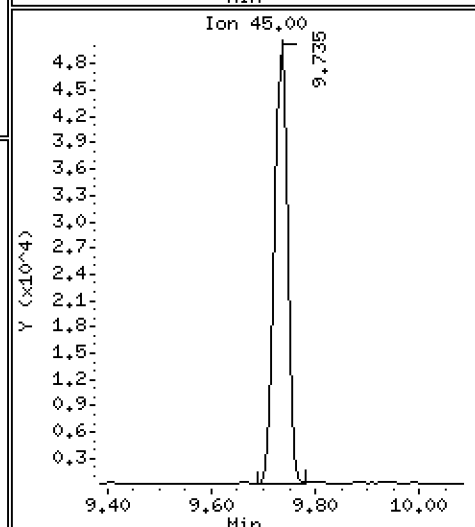
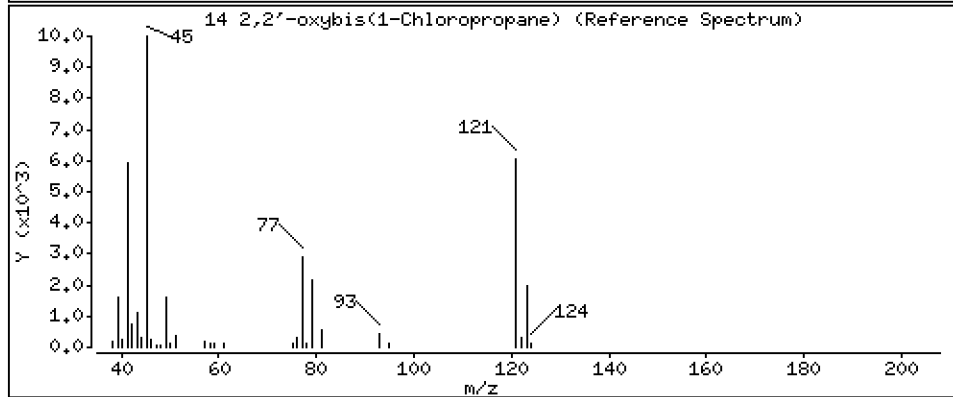
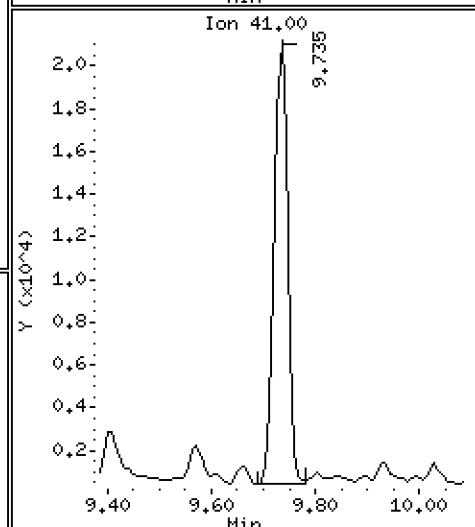
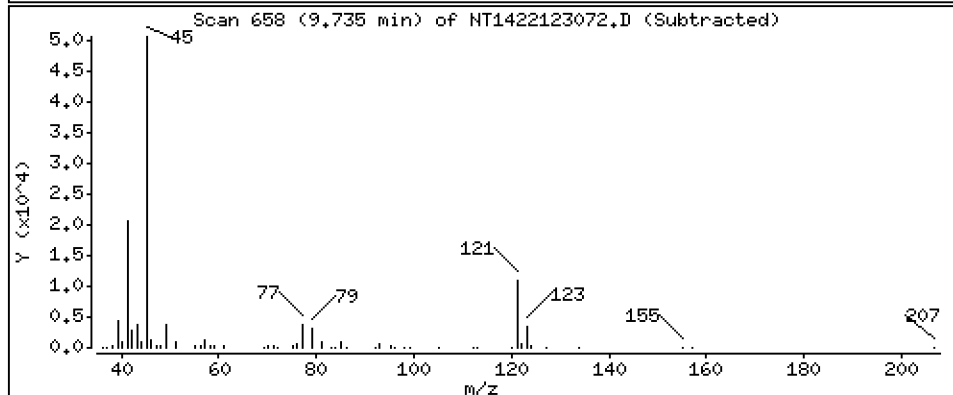
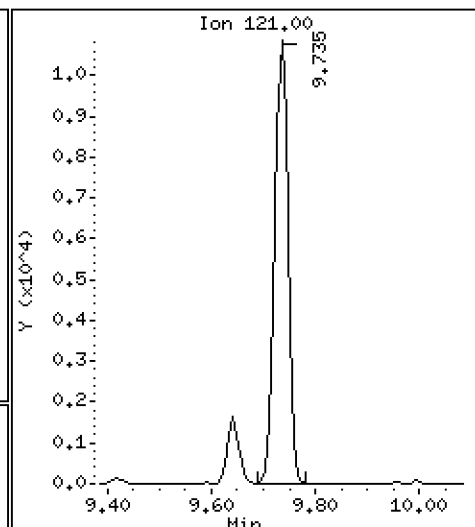
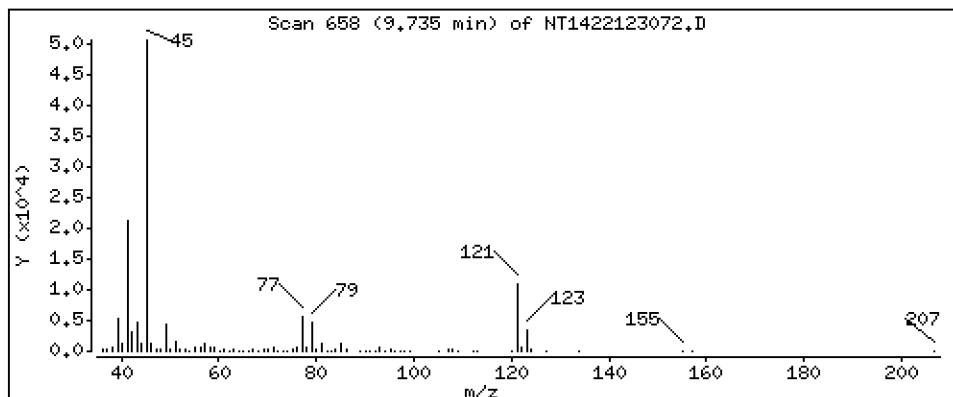
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,059 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

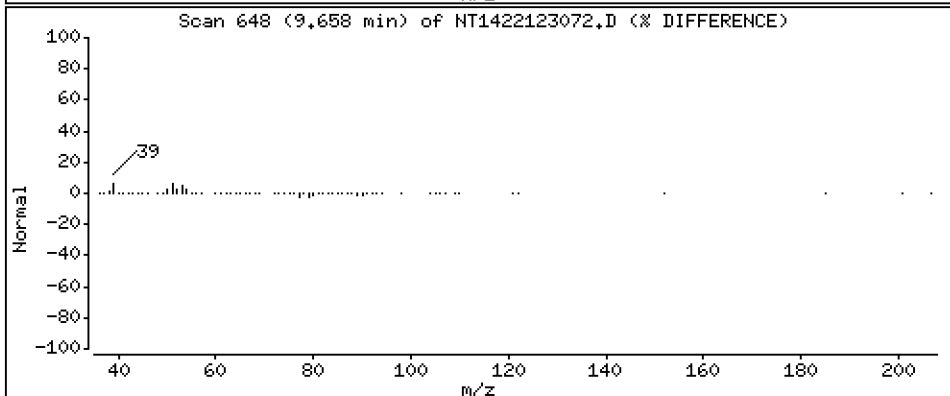
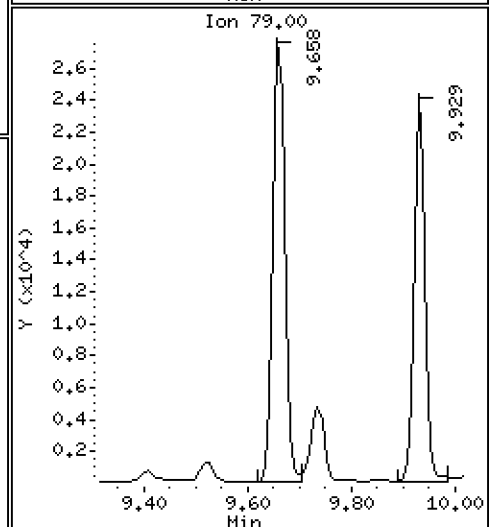
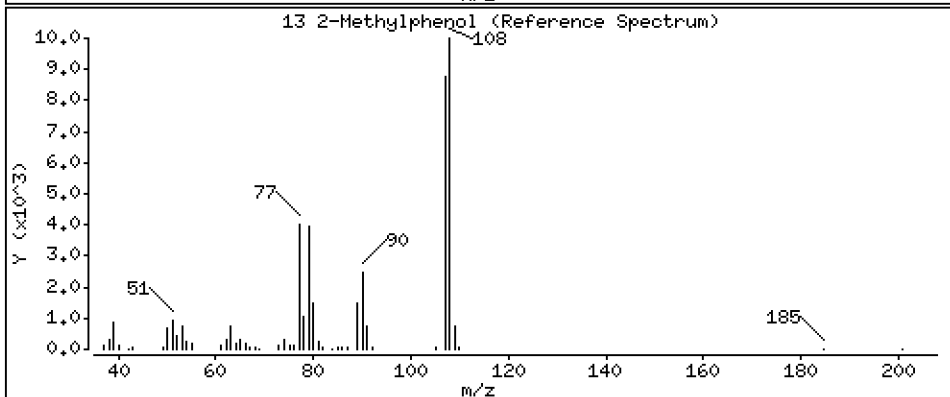
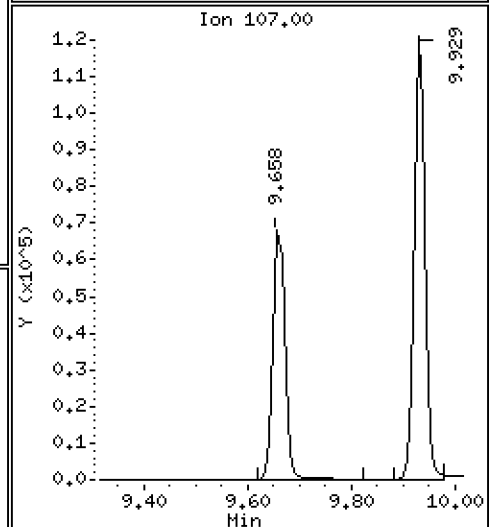
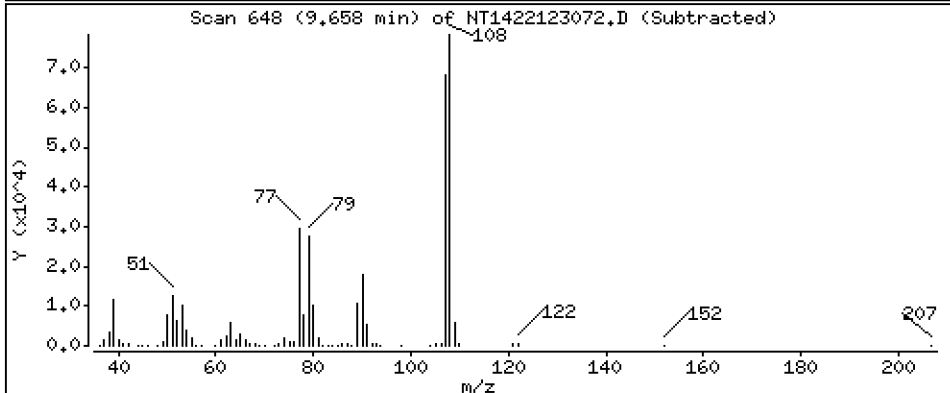
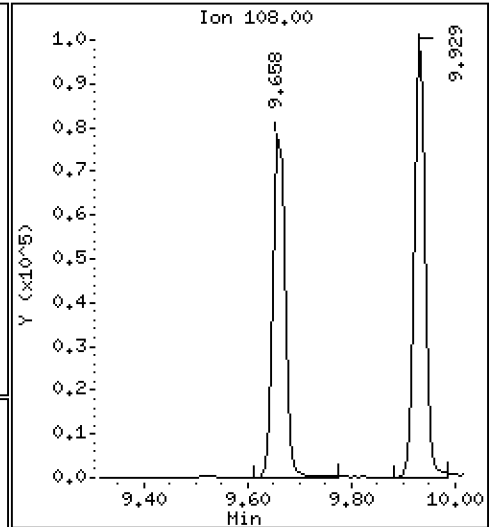
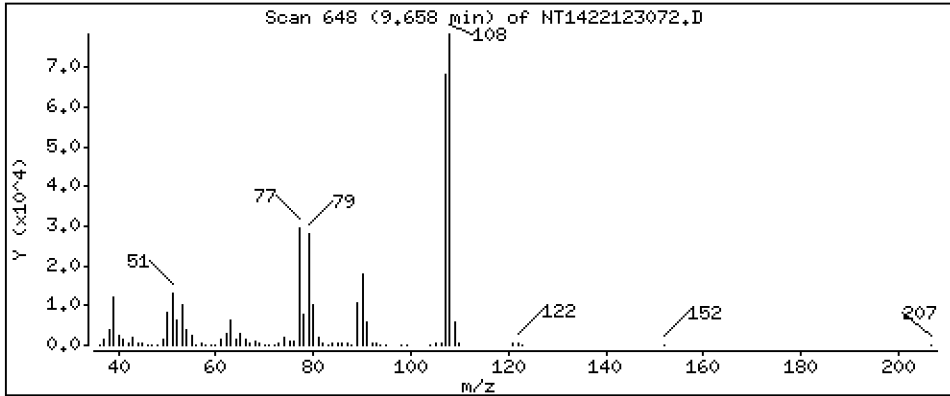
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.273 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

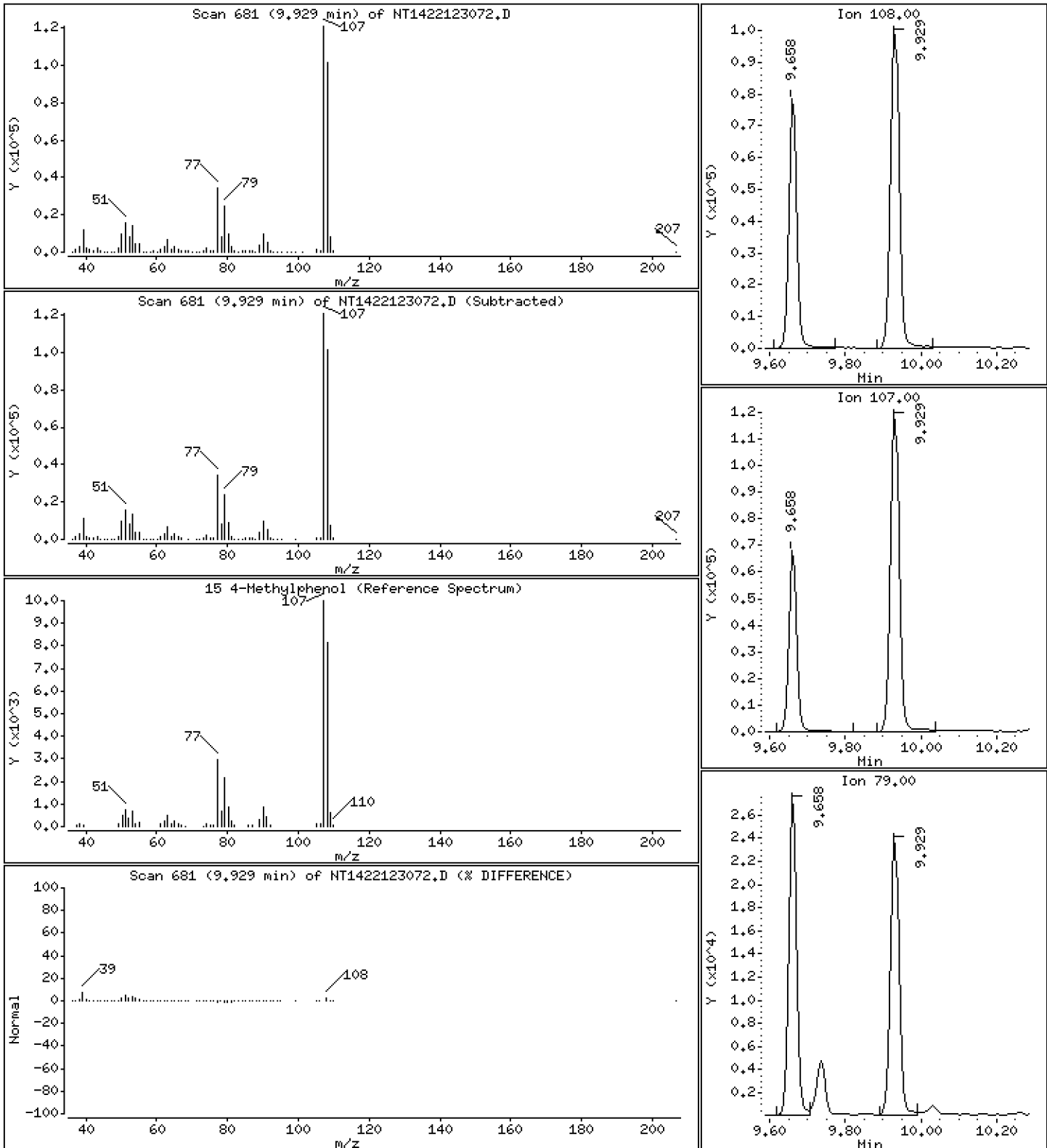
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 5.194 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

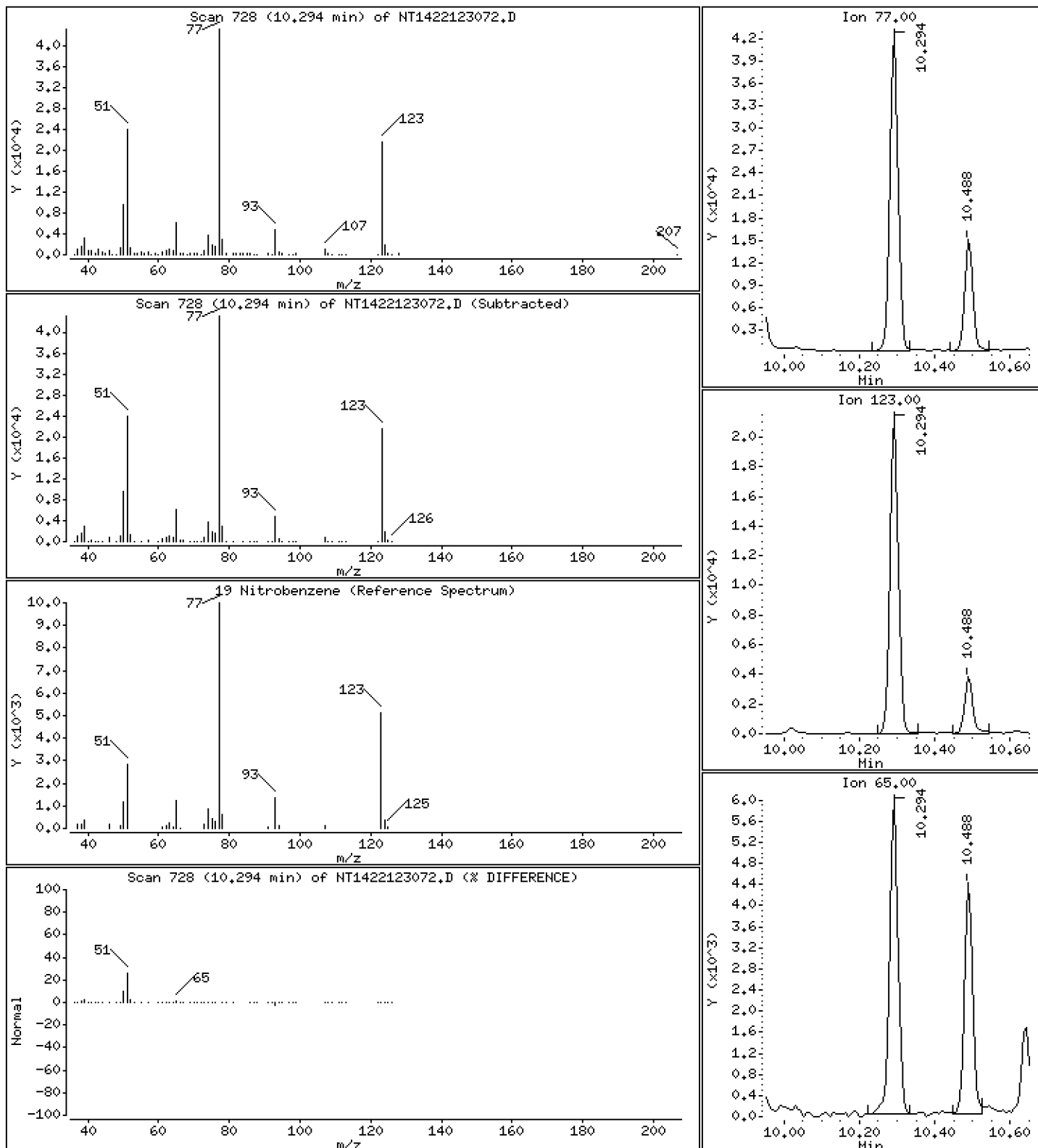
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 2,406 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

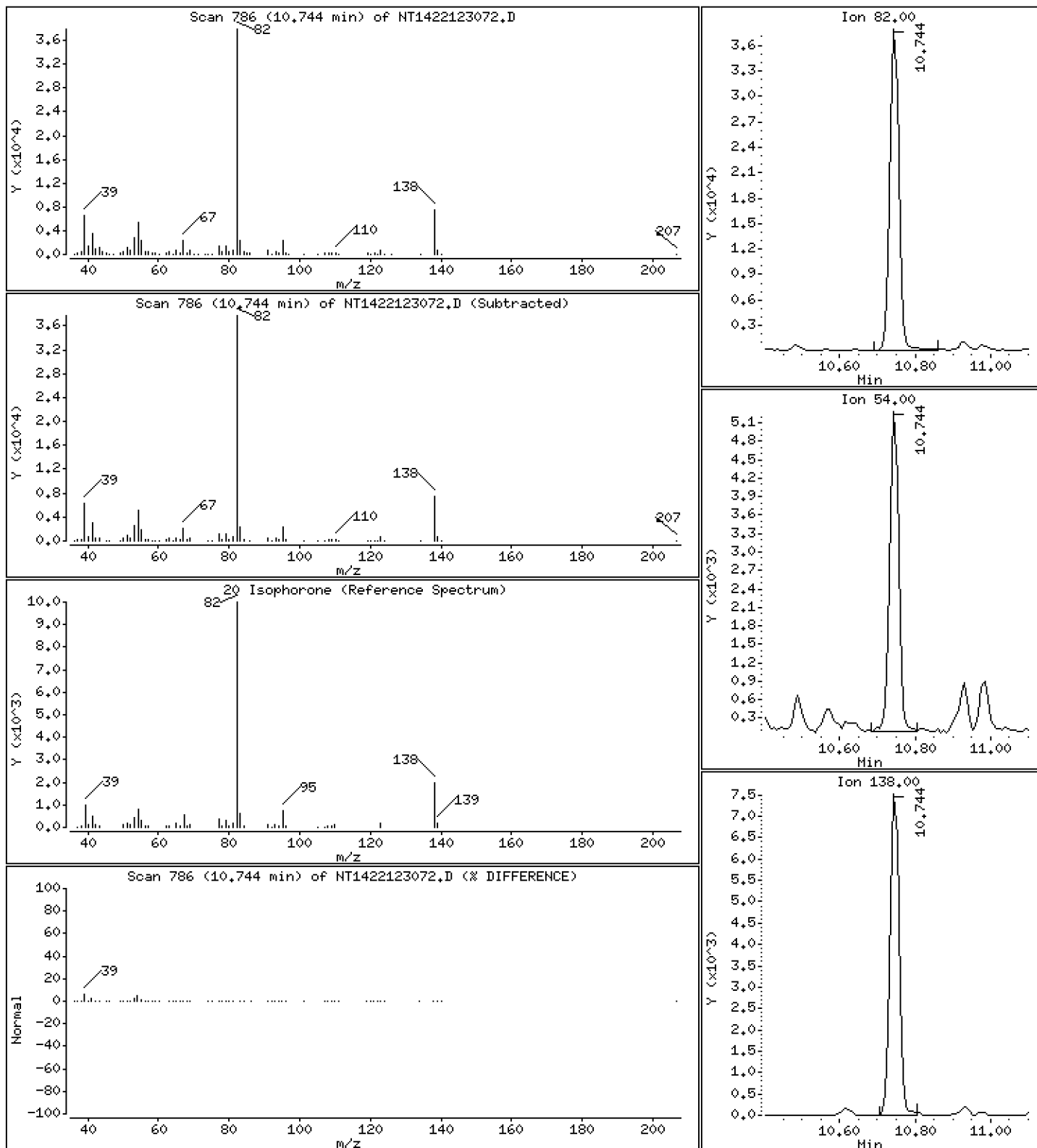
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 1,776 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

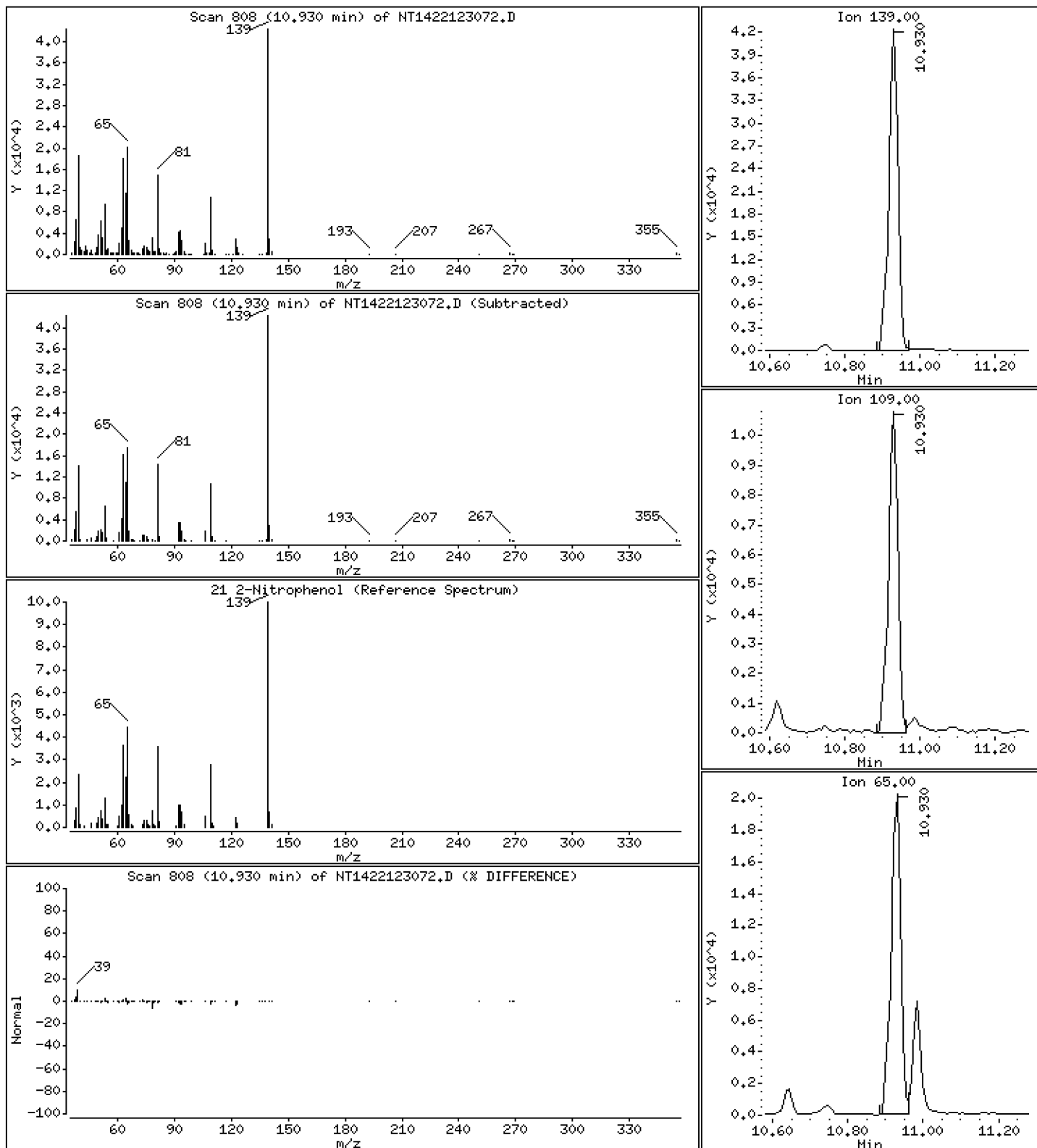
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,465 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

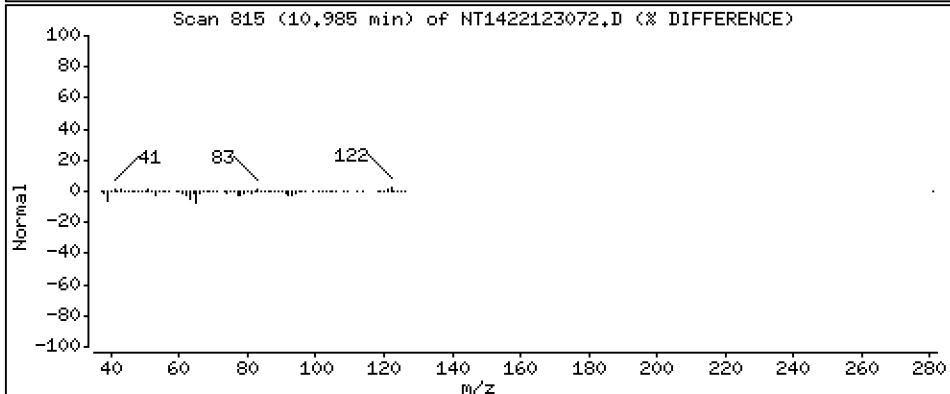
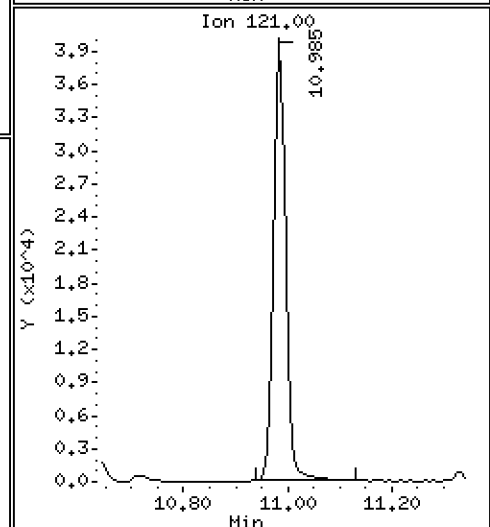
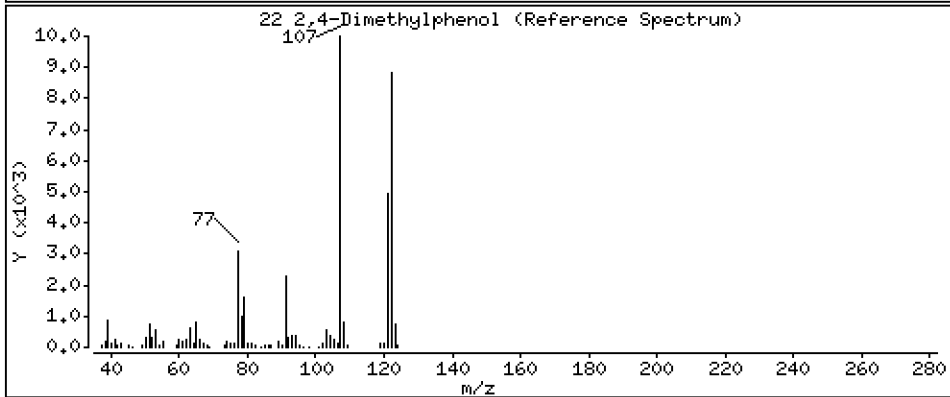
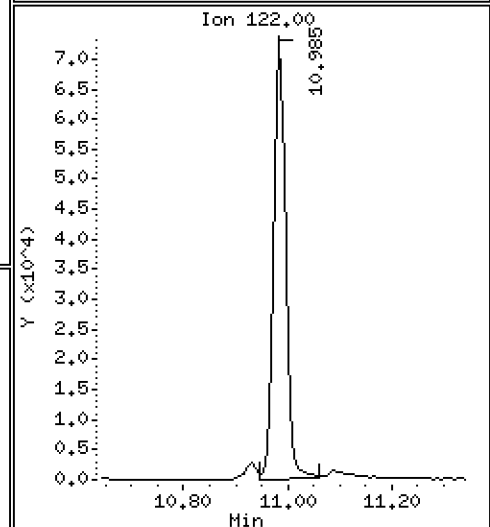
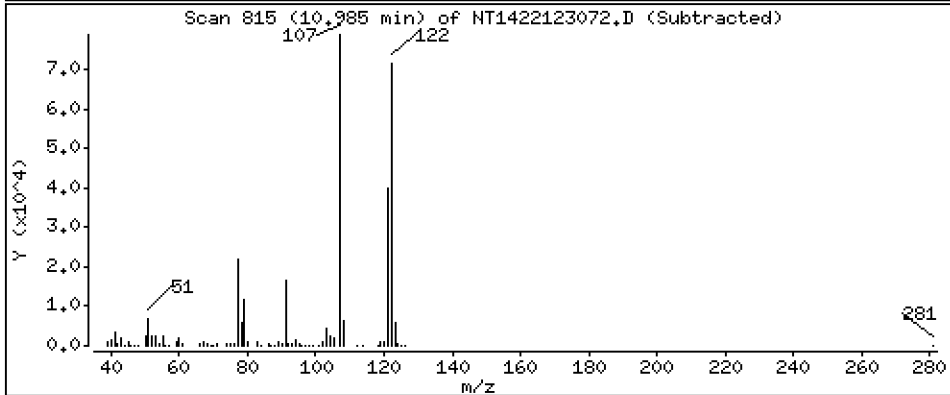
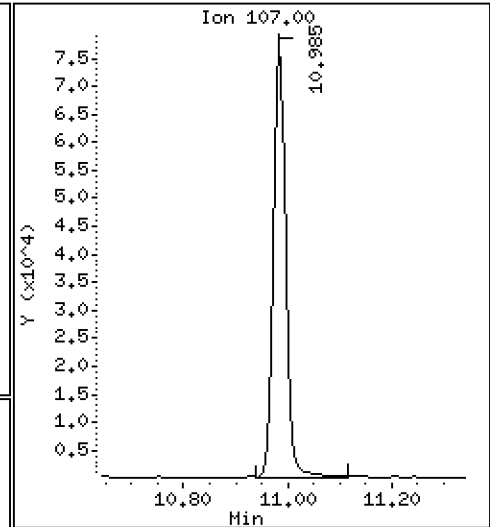
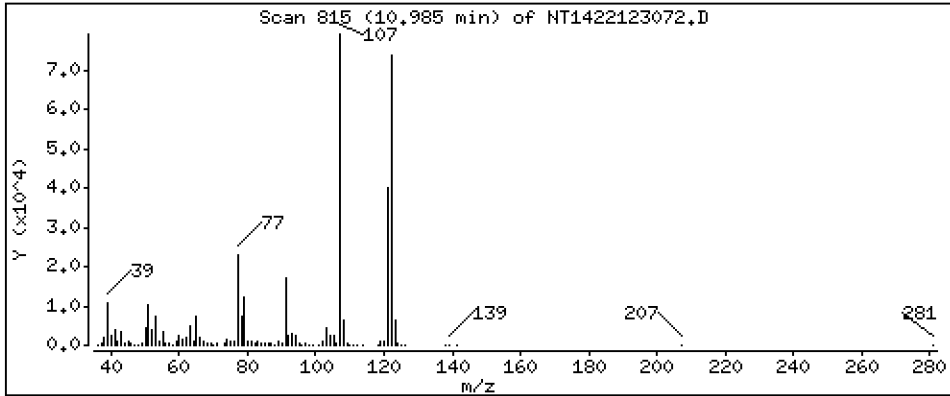
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 4,335 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

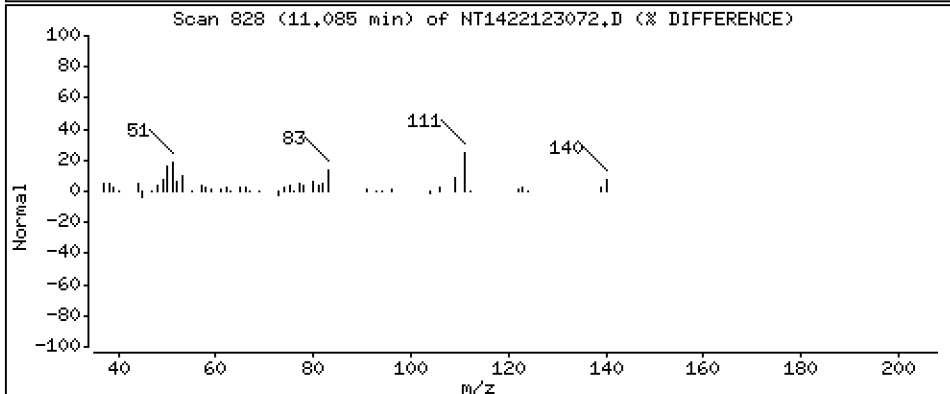
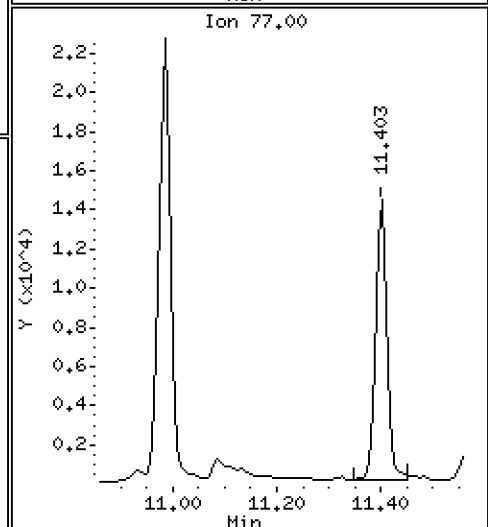
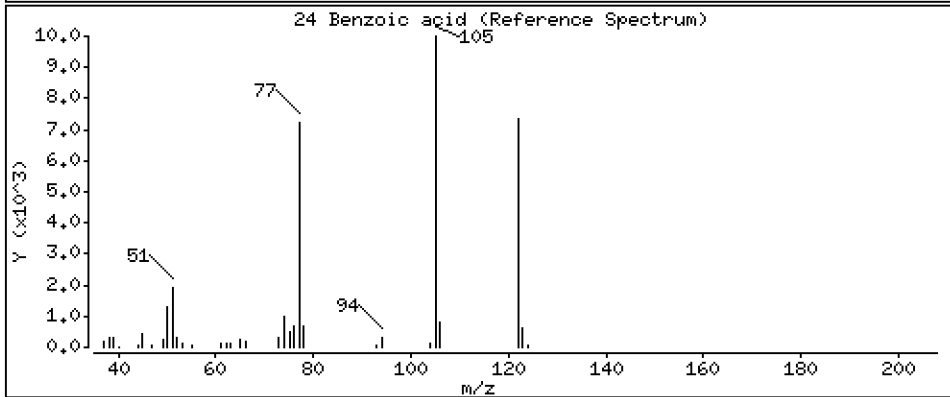
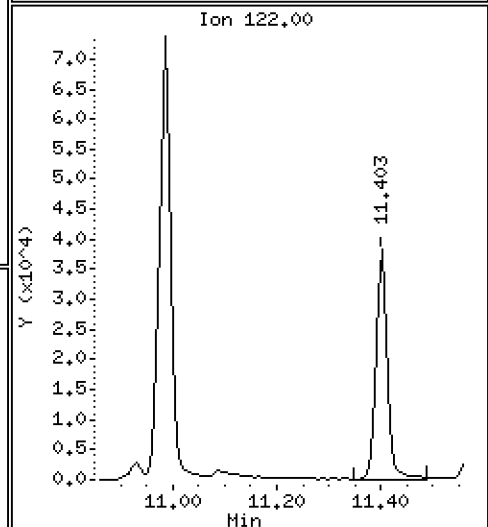
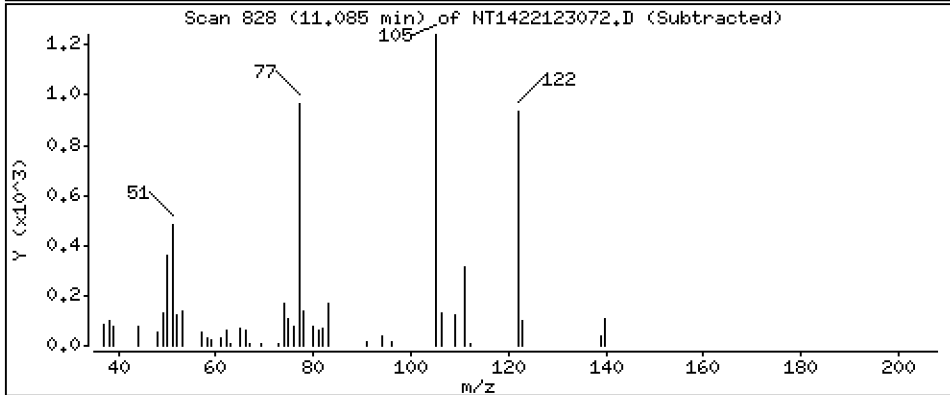
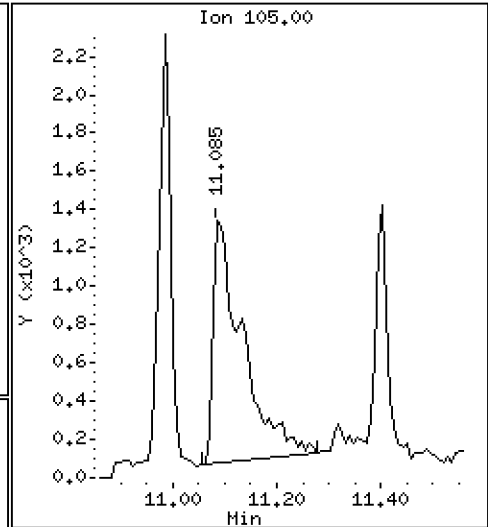
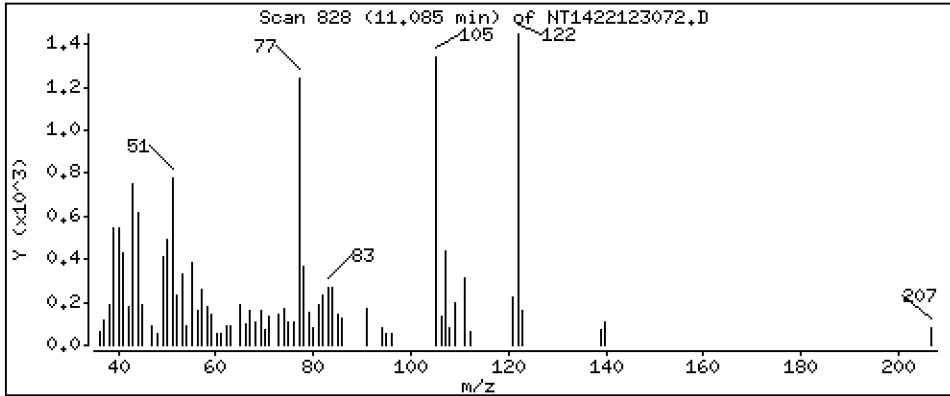
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3008 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

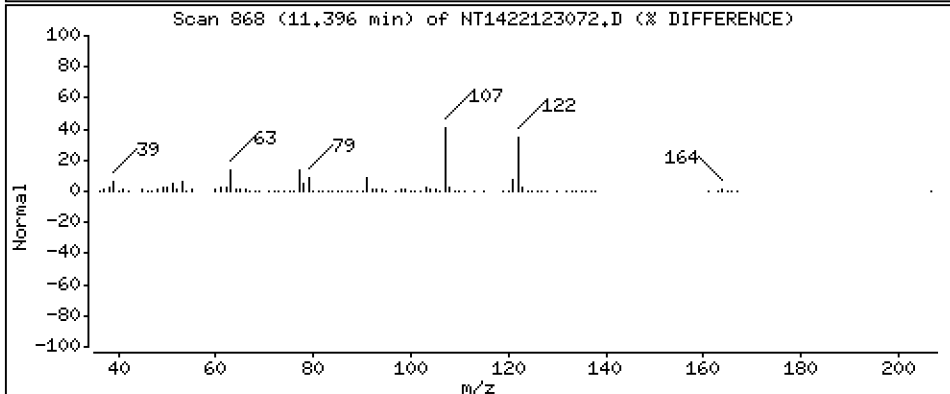
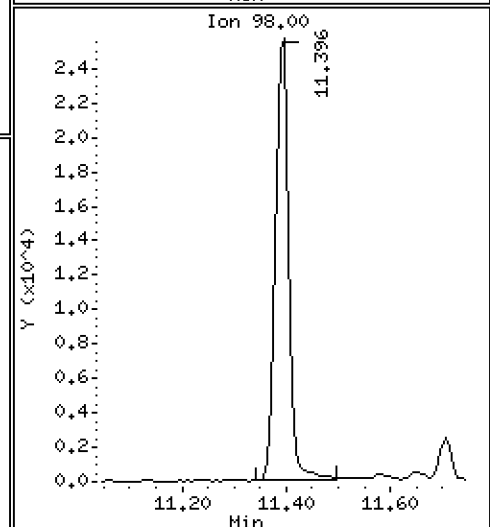
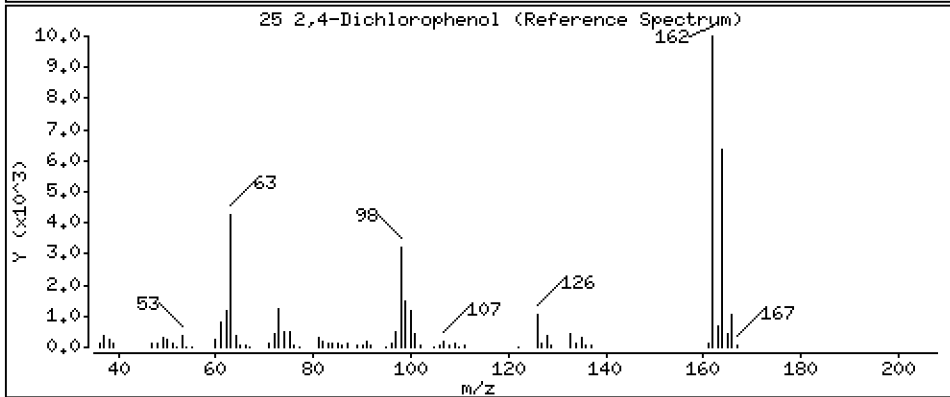
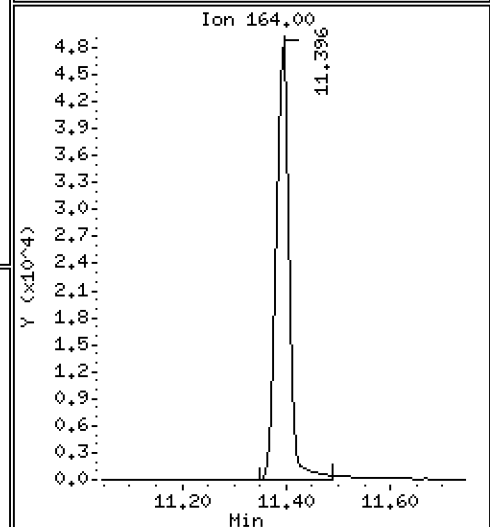
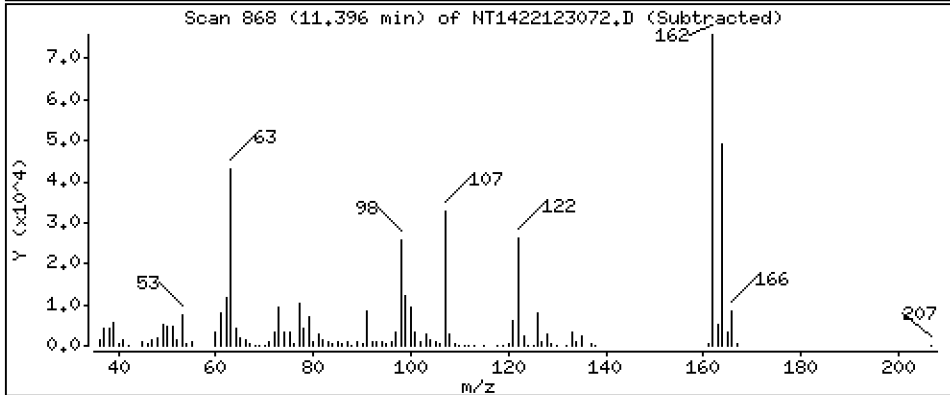
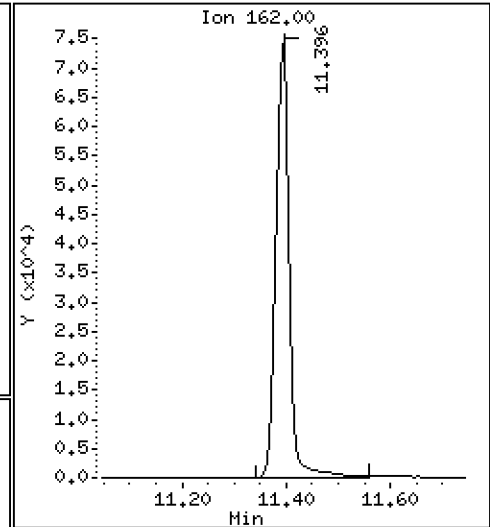
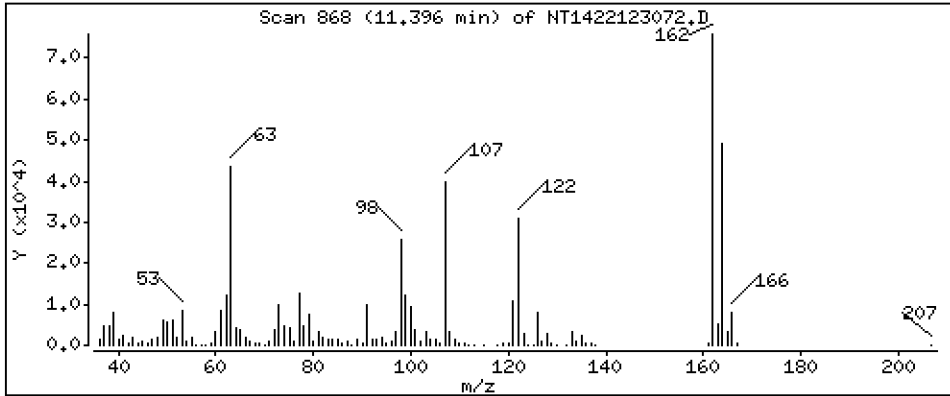
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 5,894 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

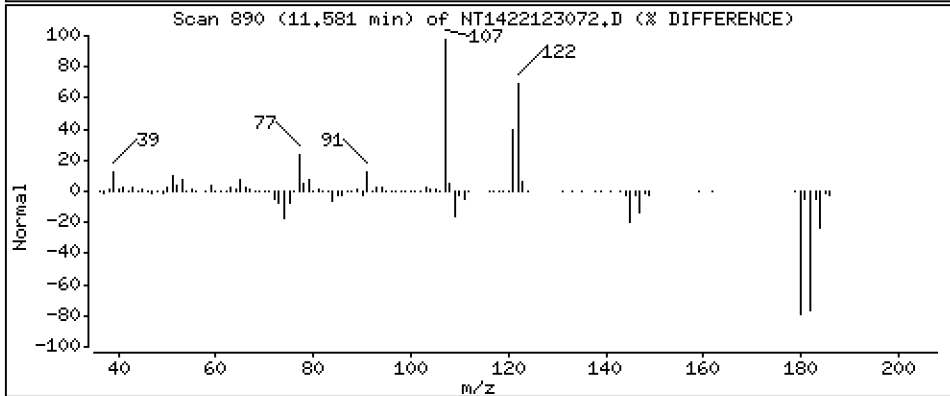
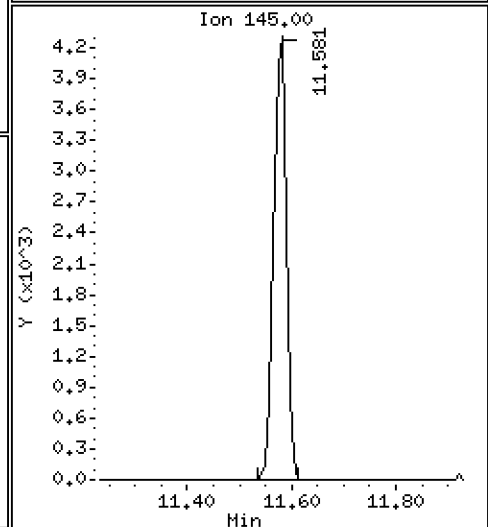
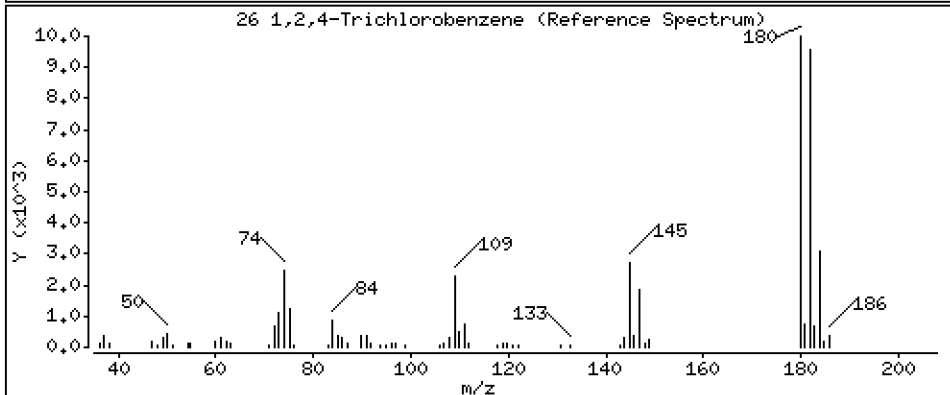
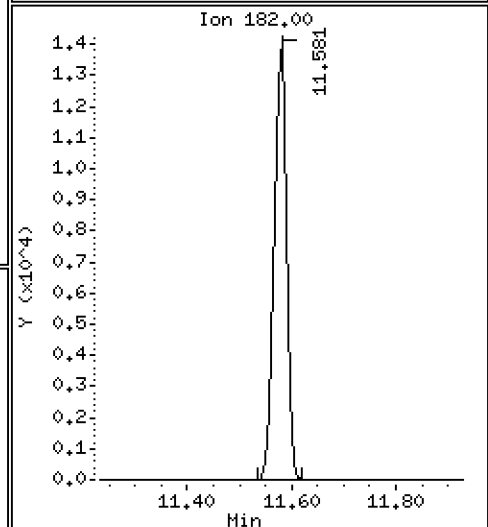
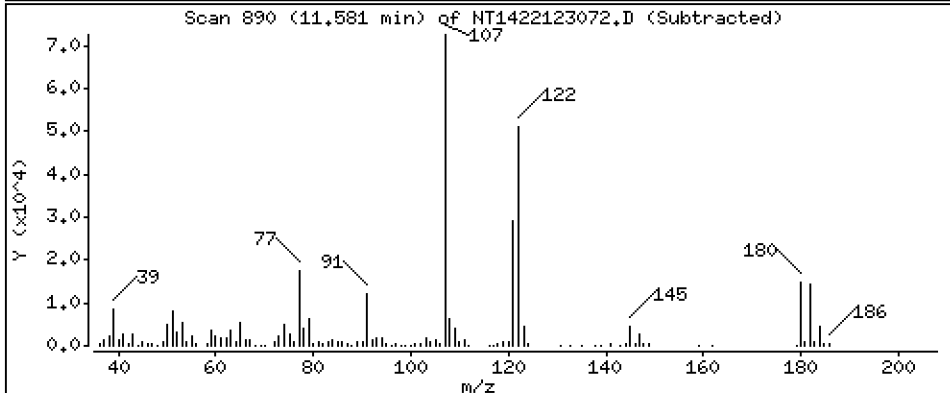
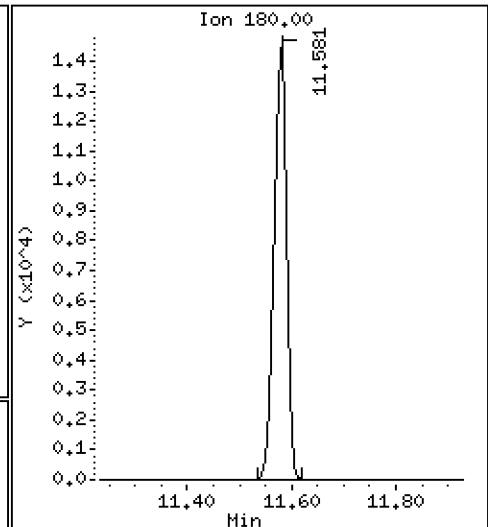
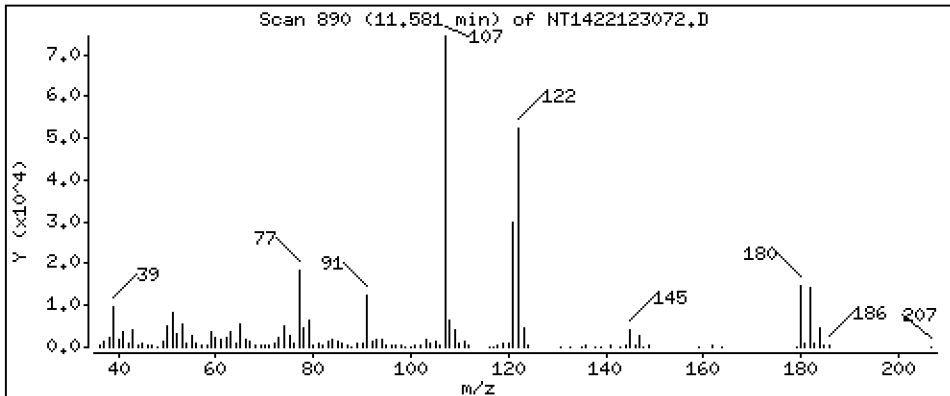
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,9266 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

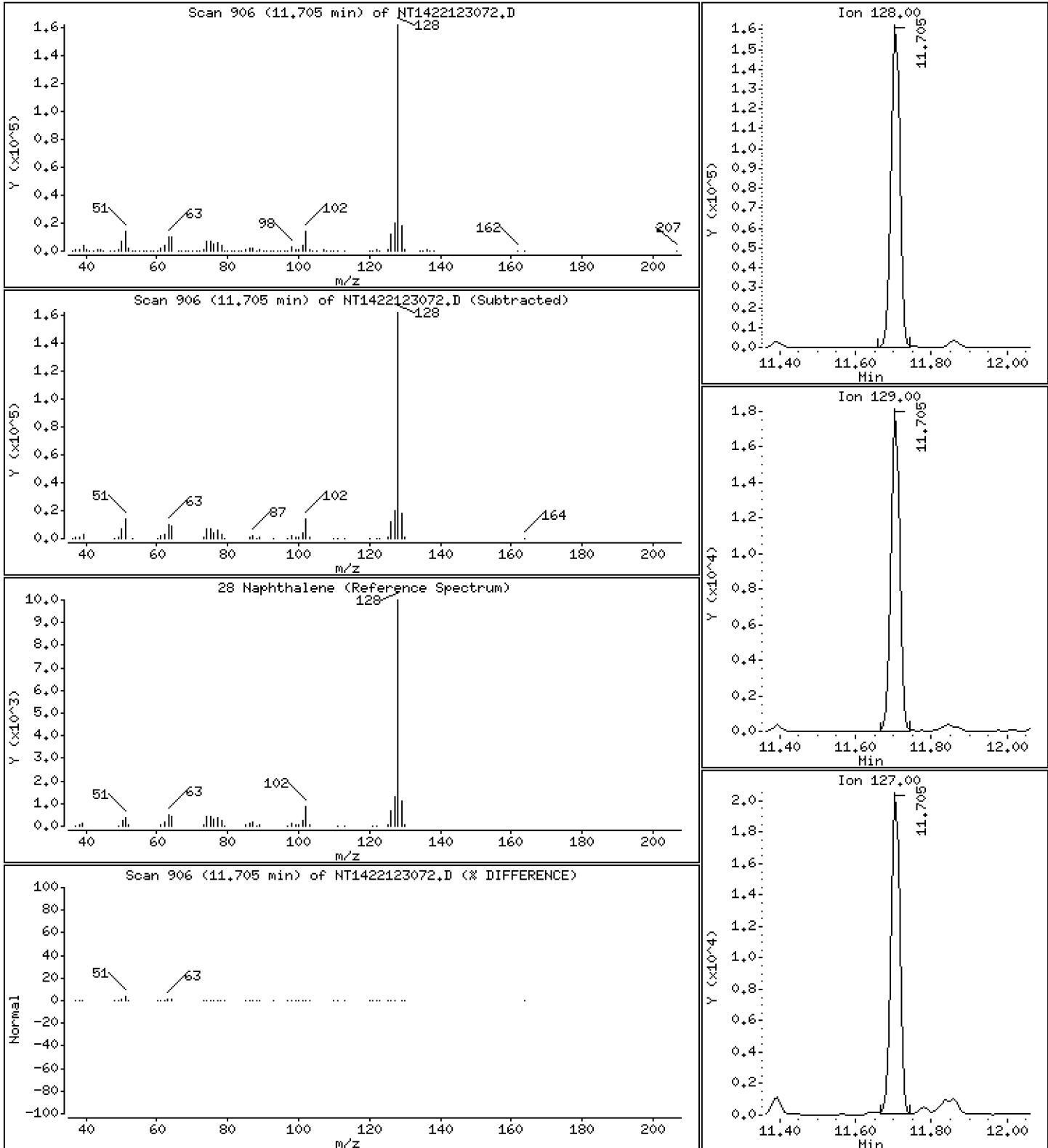
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 3,162 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

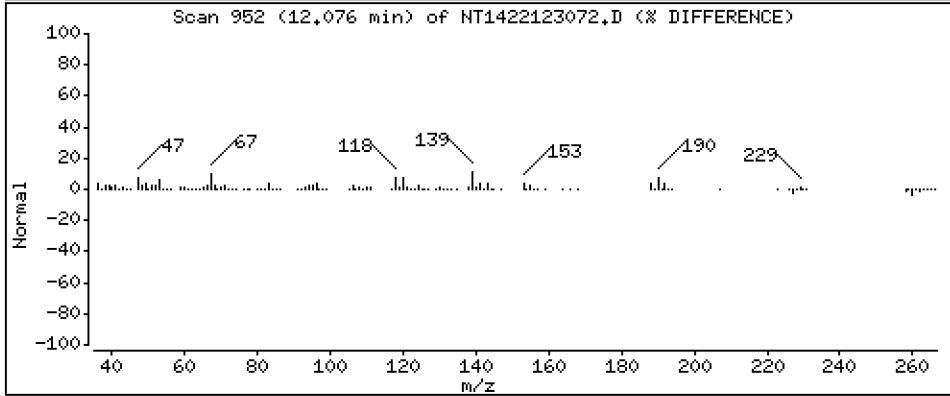
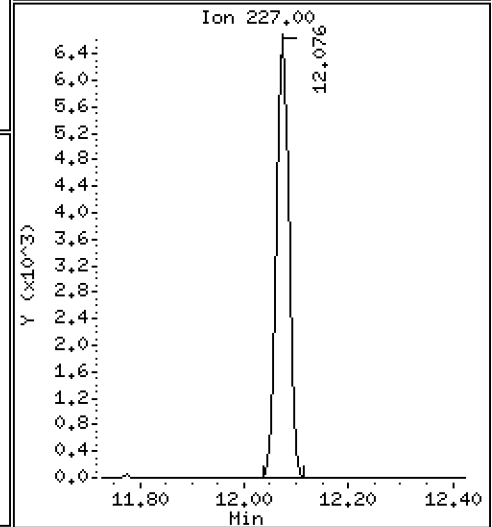
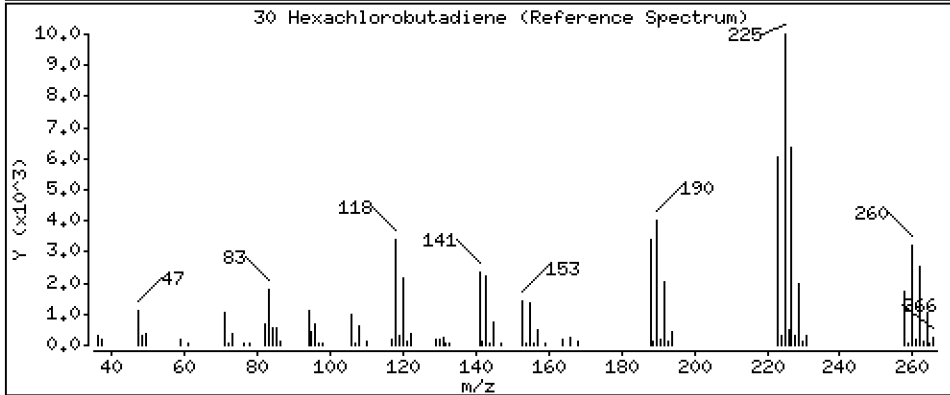
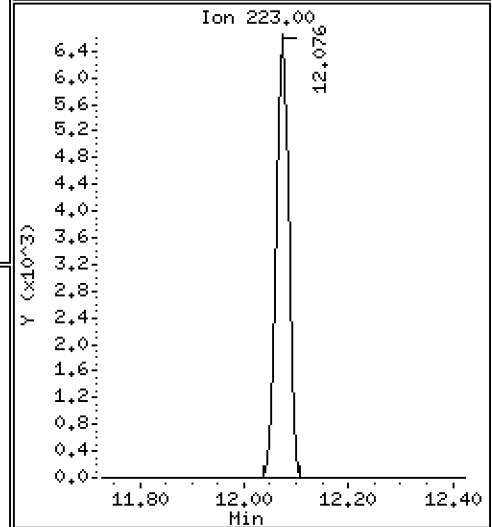
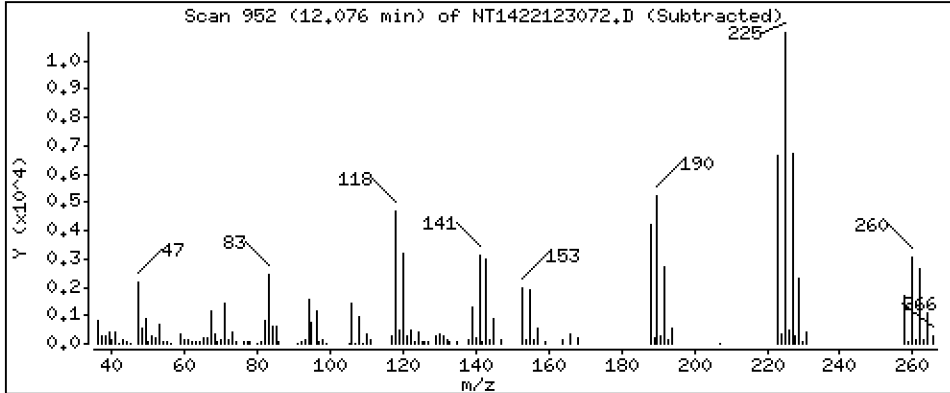
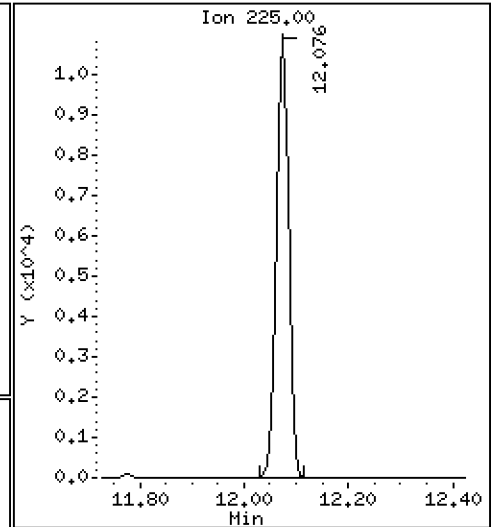
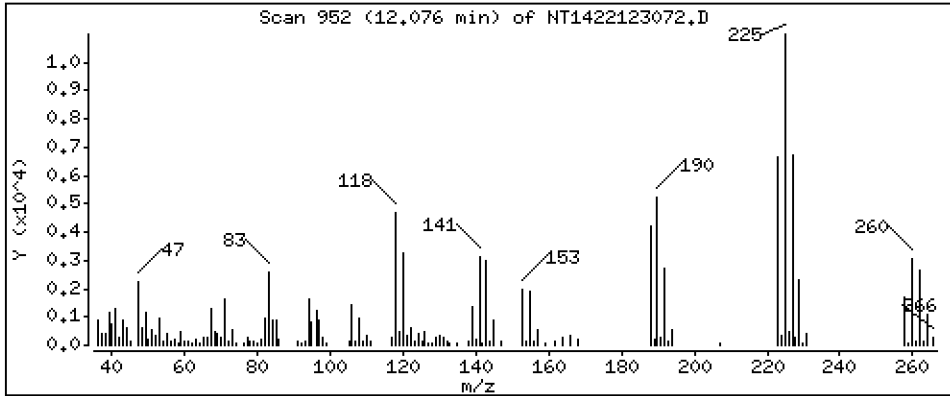
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 1,357 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

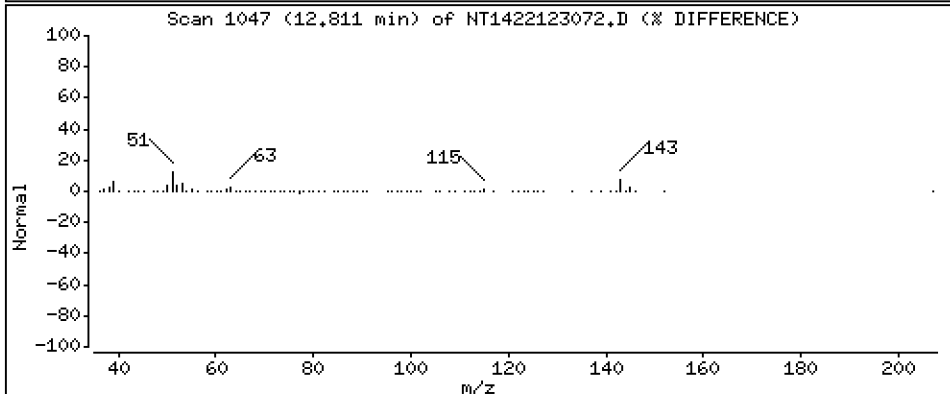
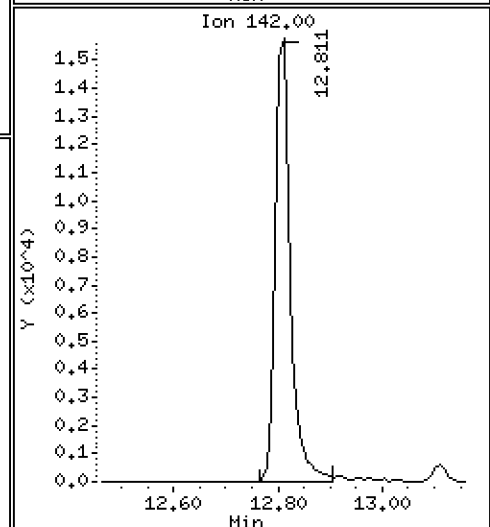
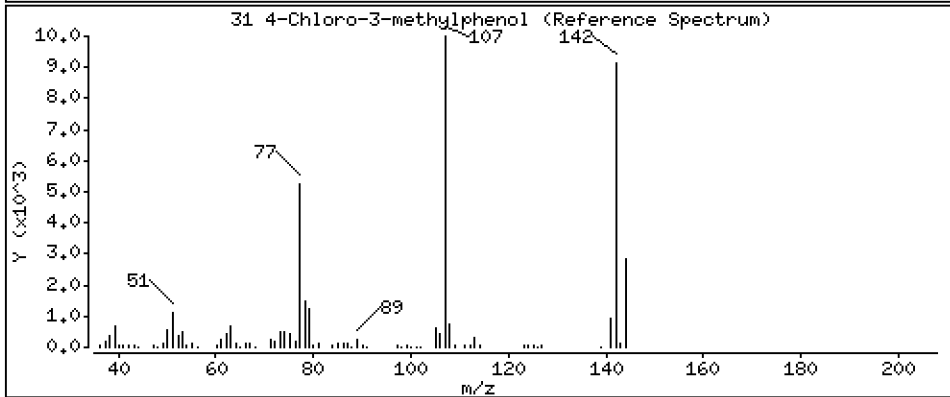
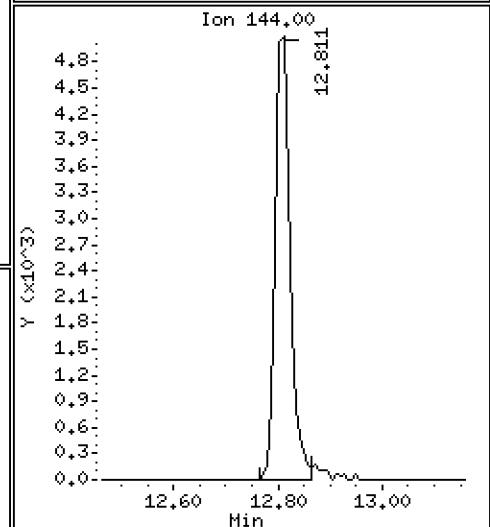
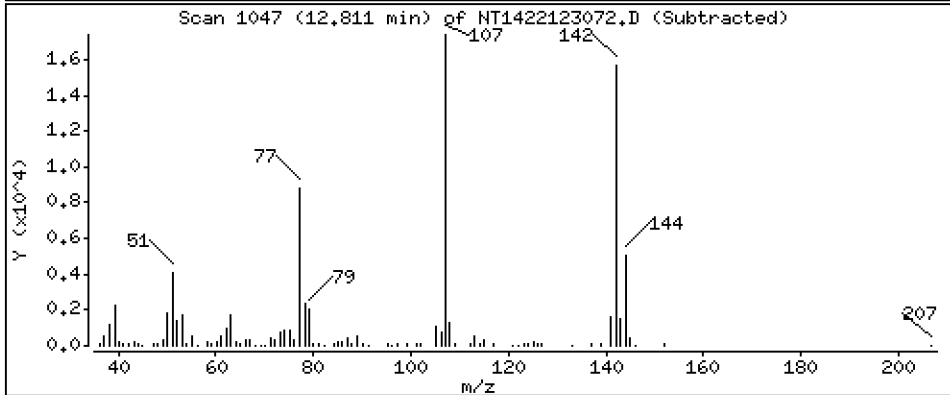
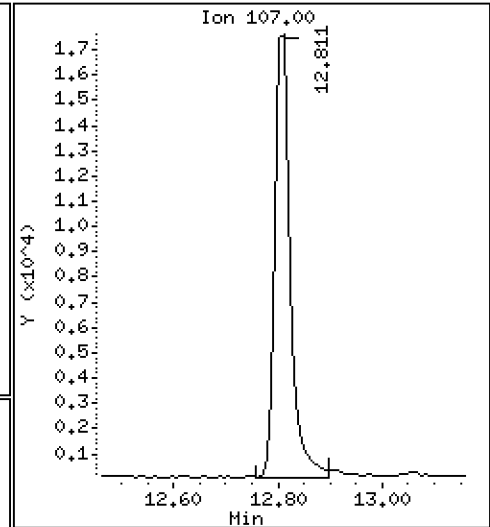
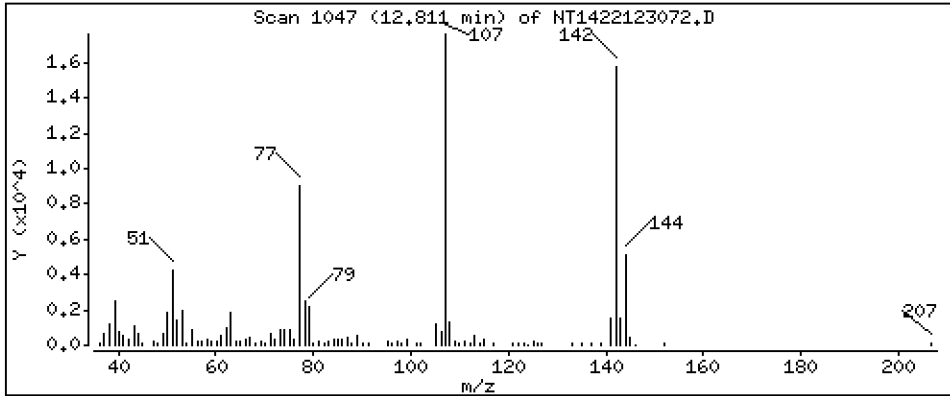
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 1.572 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

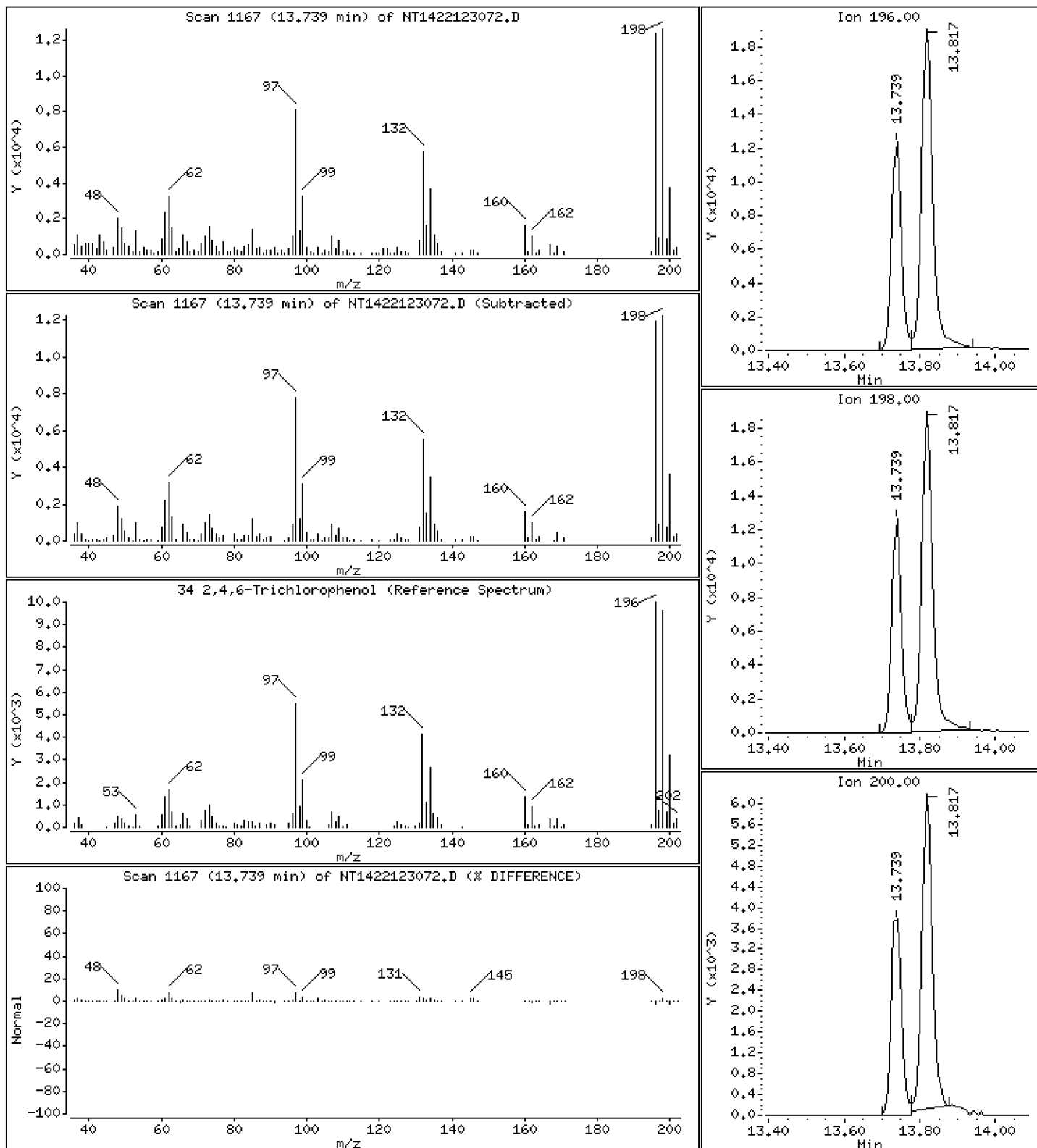
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 1,596 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

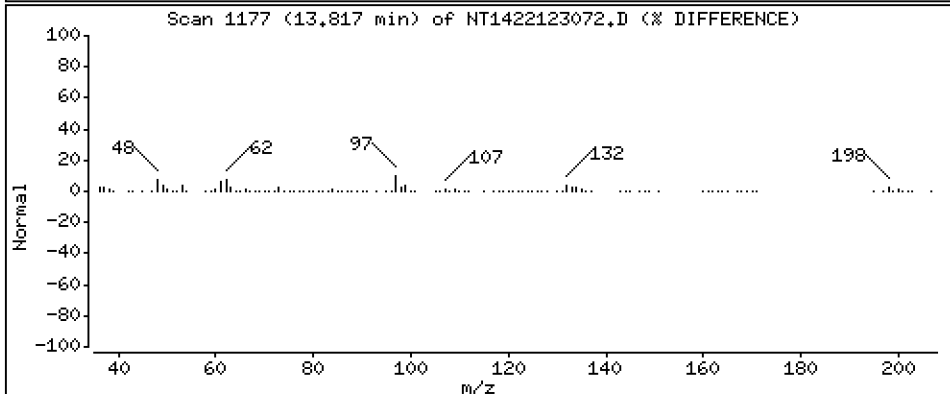
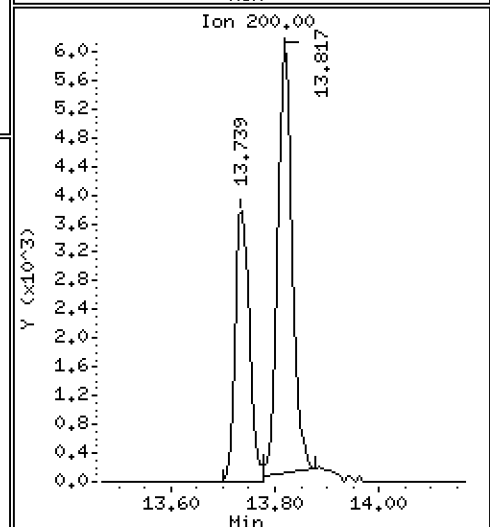
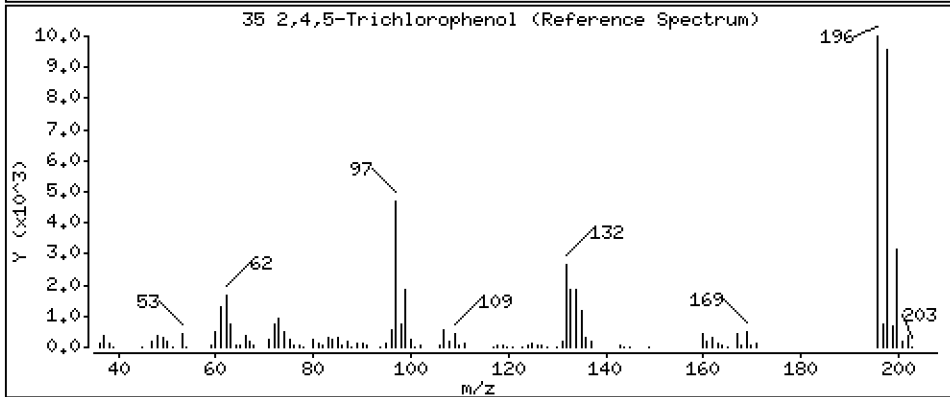
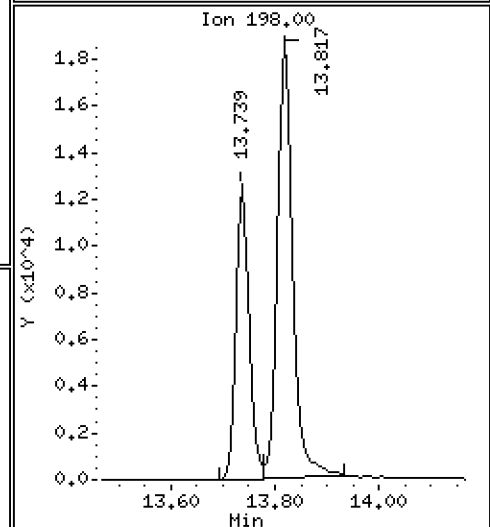
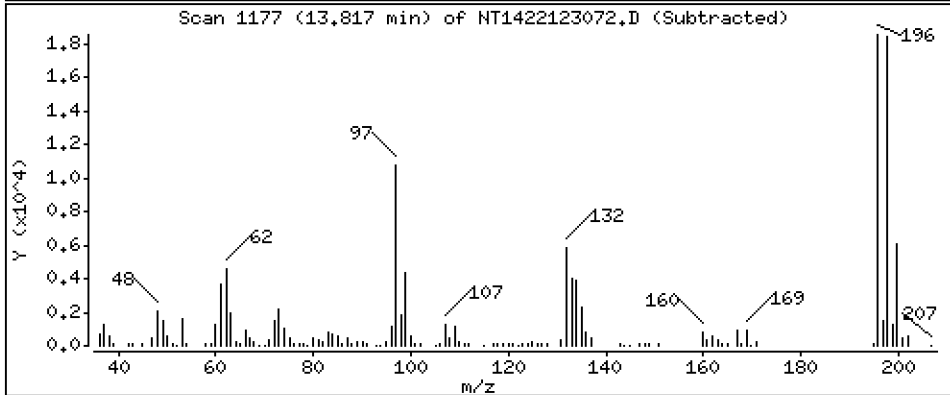
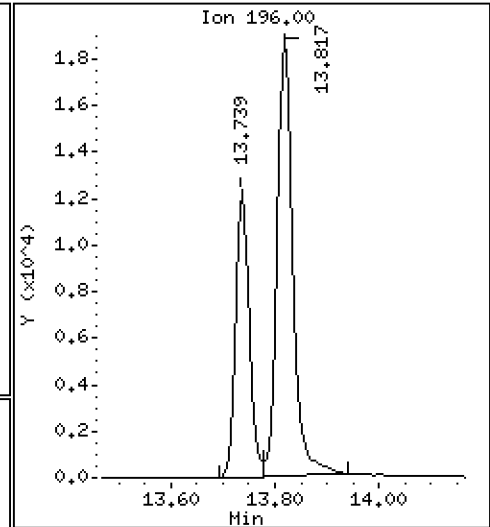
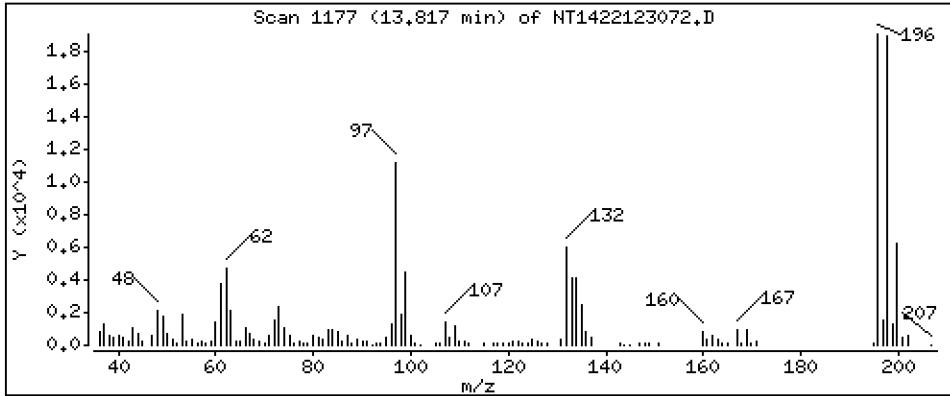
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 2,450 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

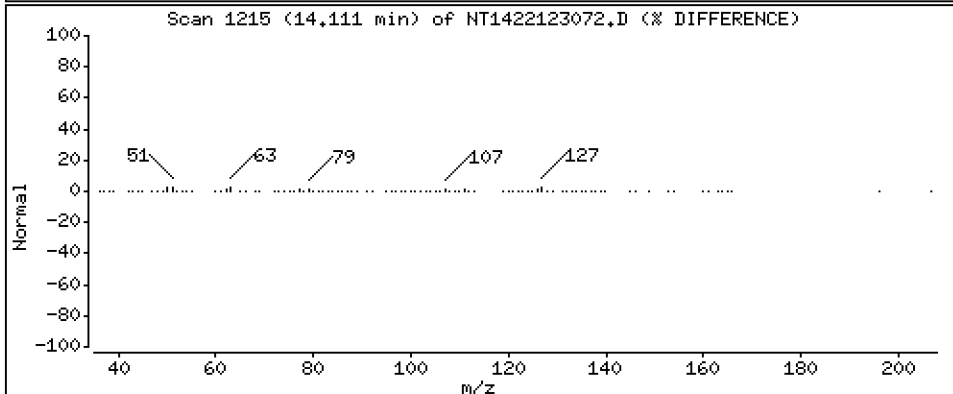
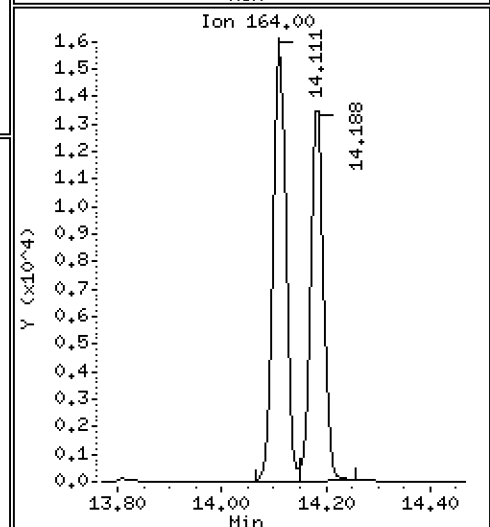
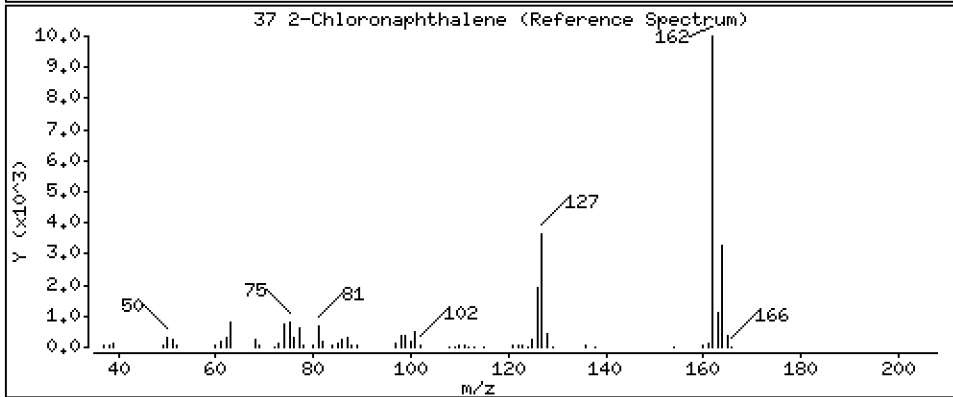
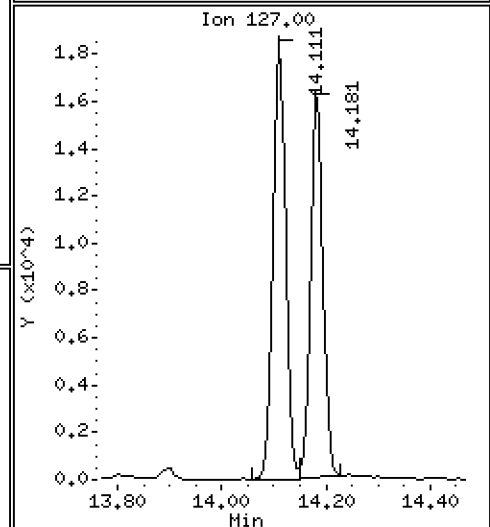
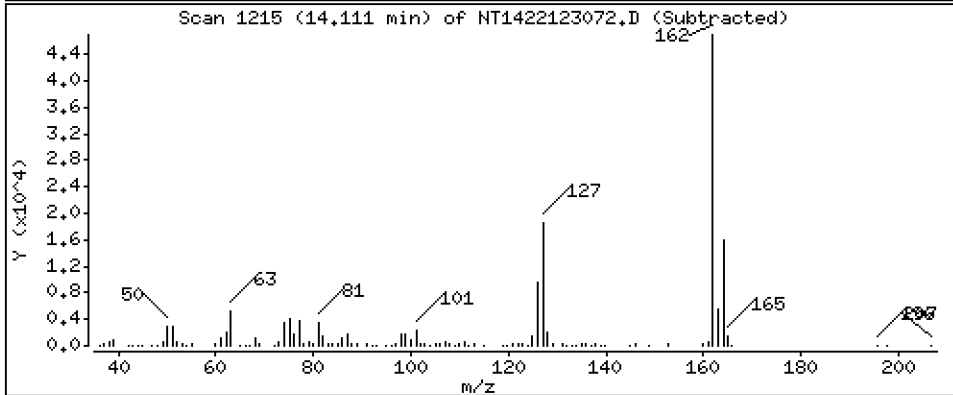
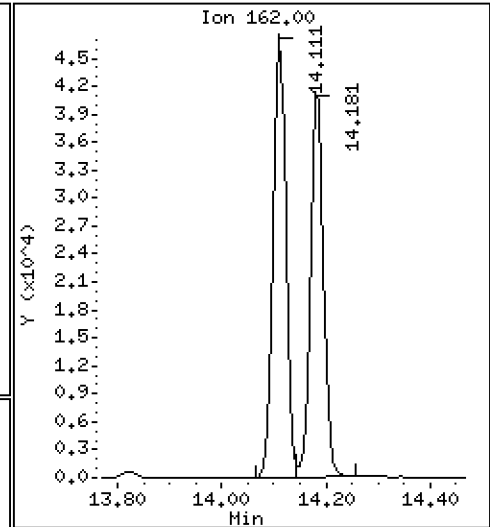
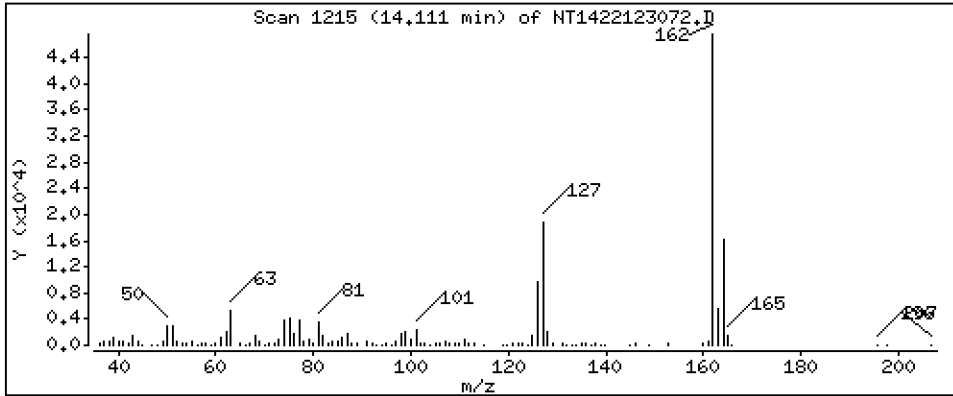
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 1,659 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

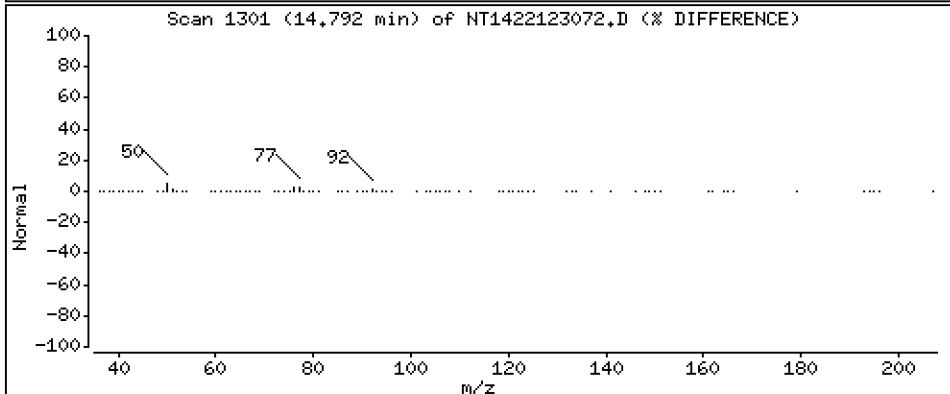
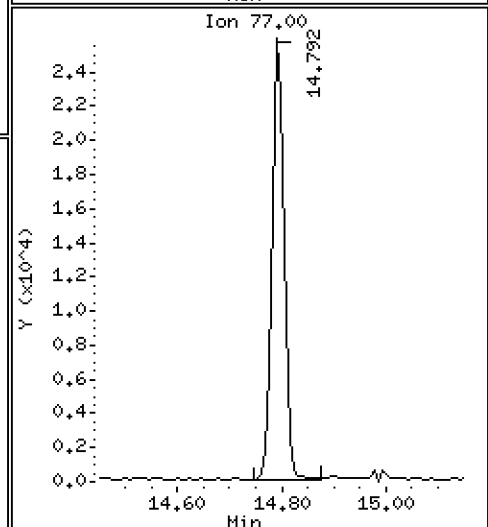
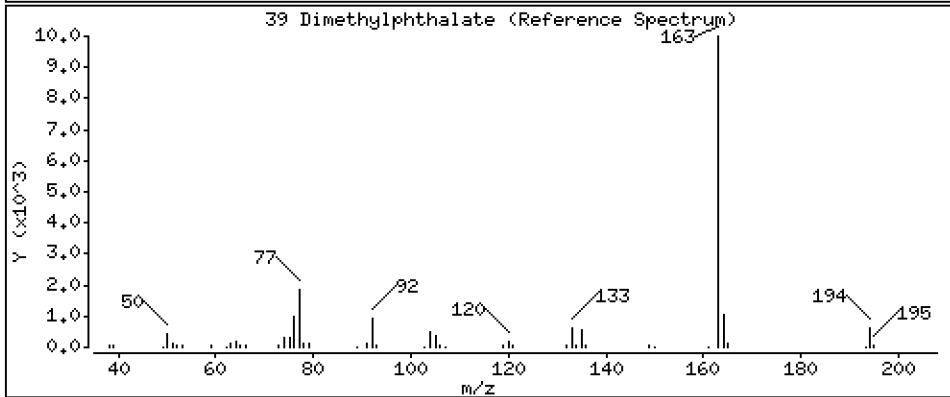
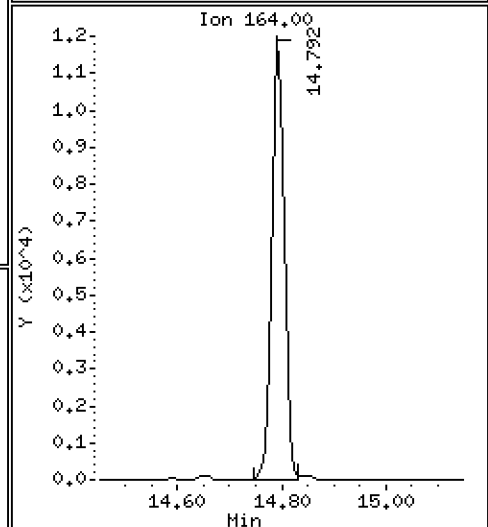
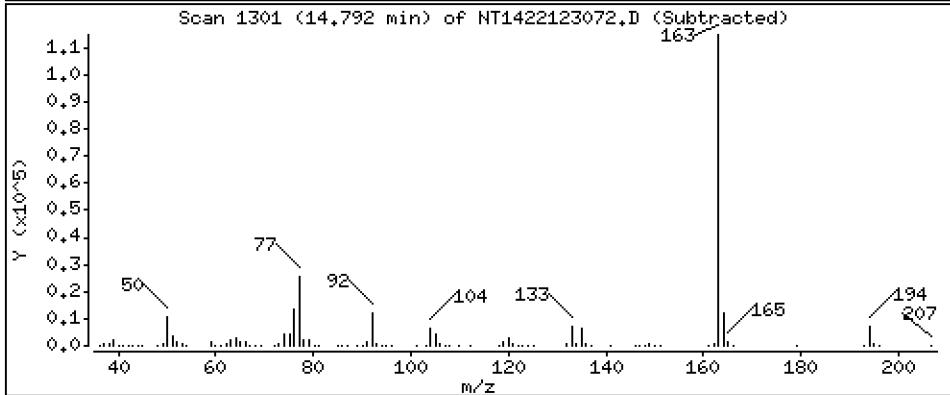
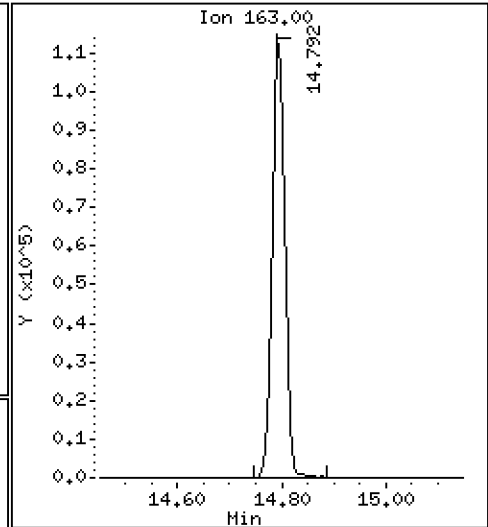
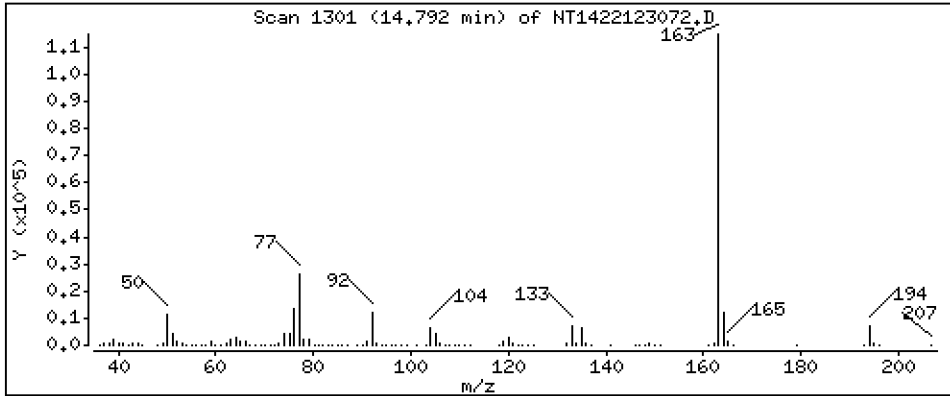
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,053 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

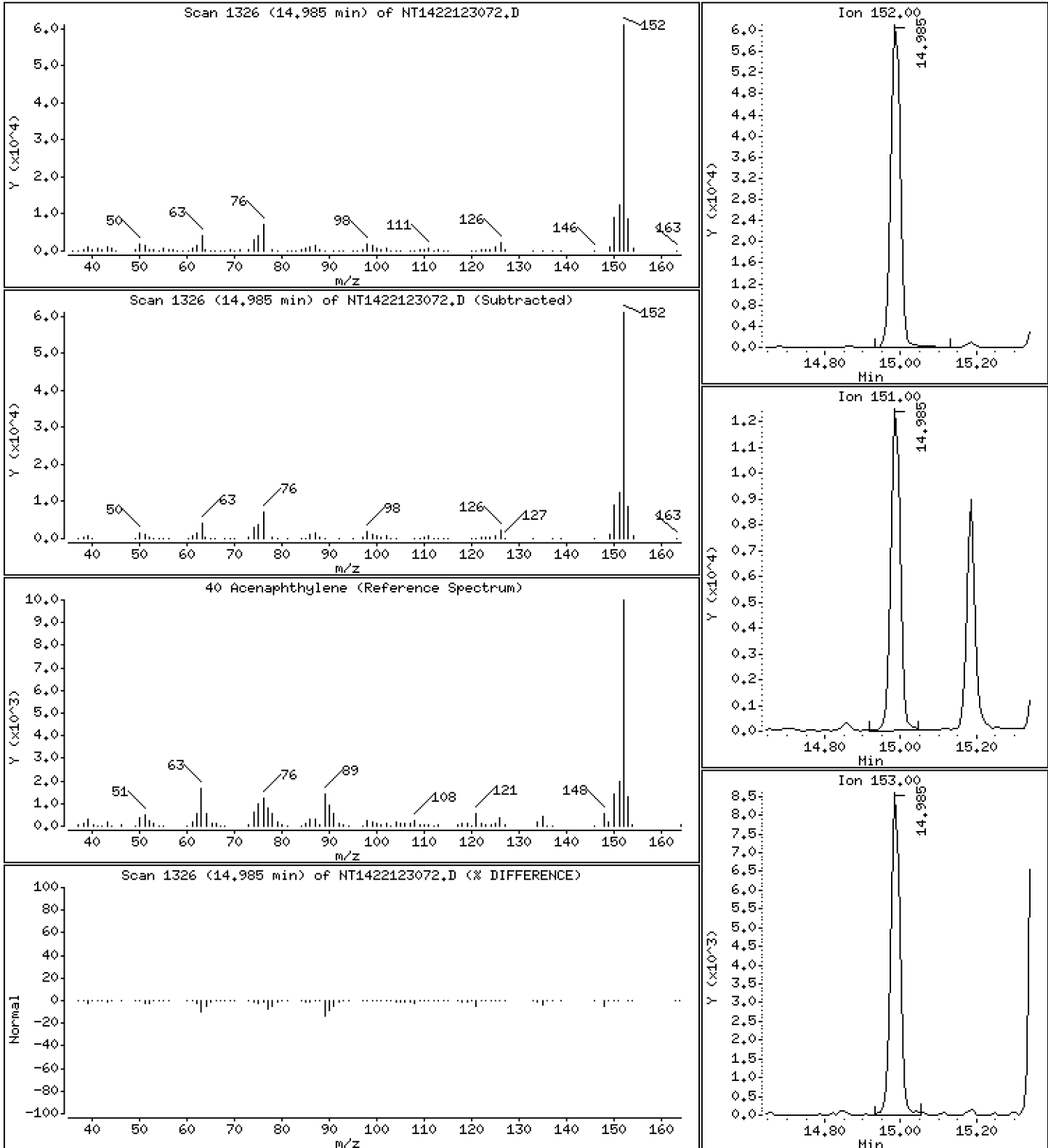
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 1,575 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

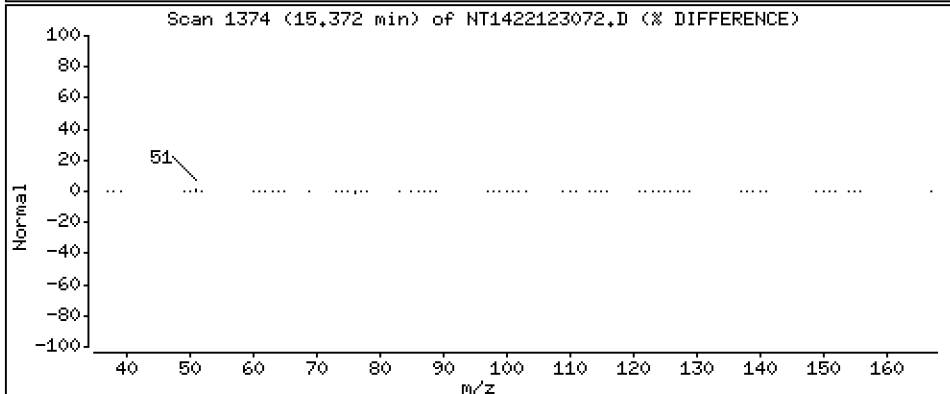
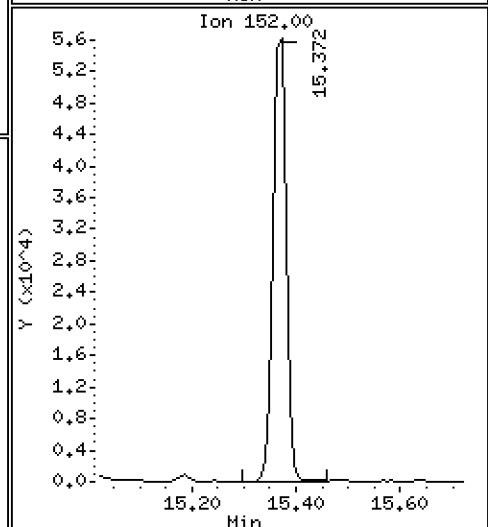
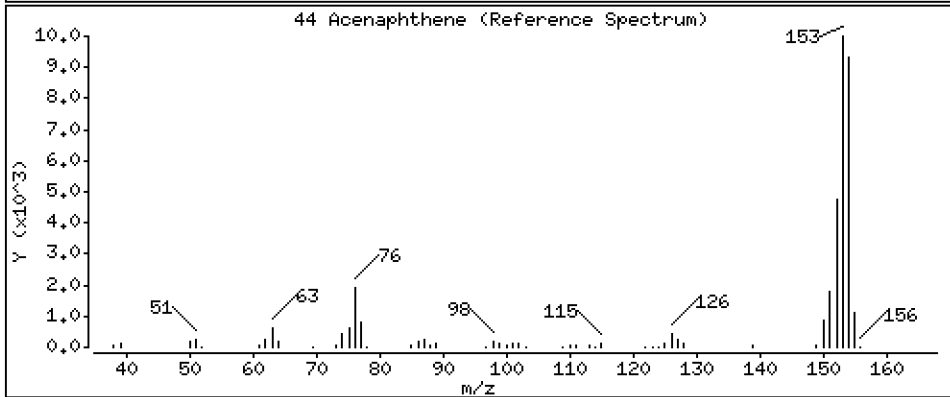
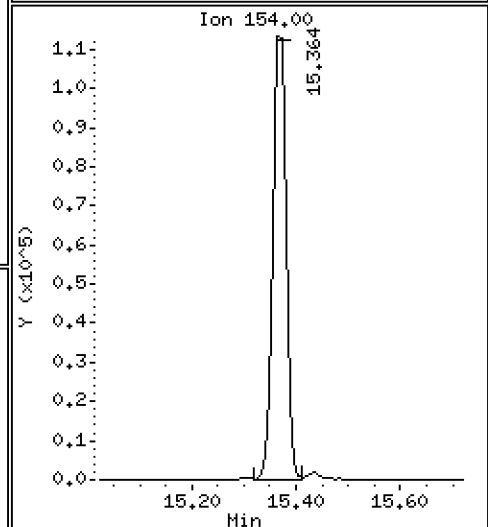
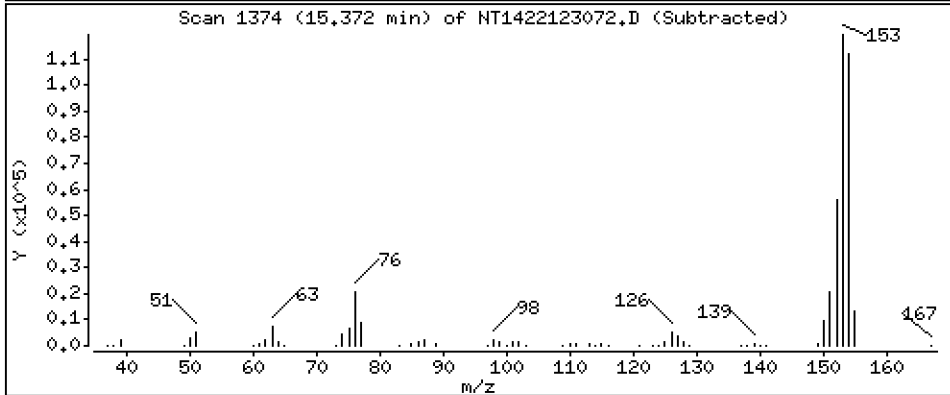
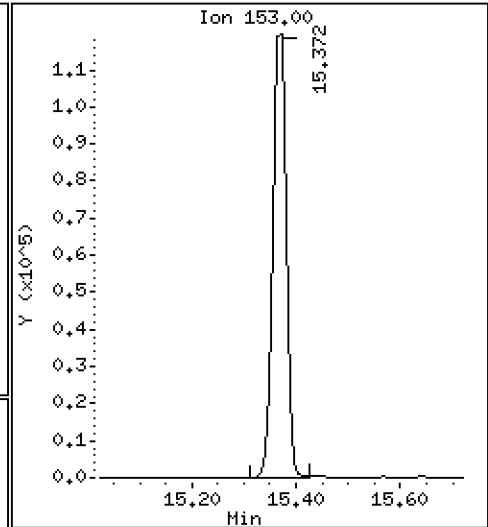
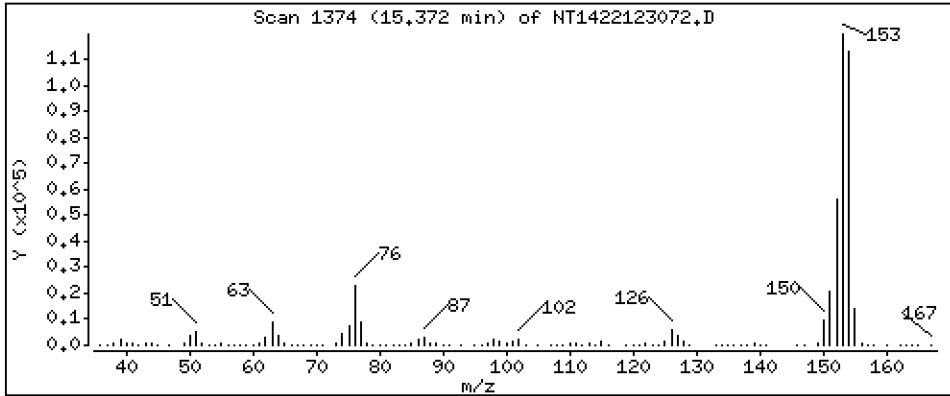
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,651 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

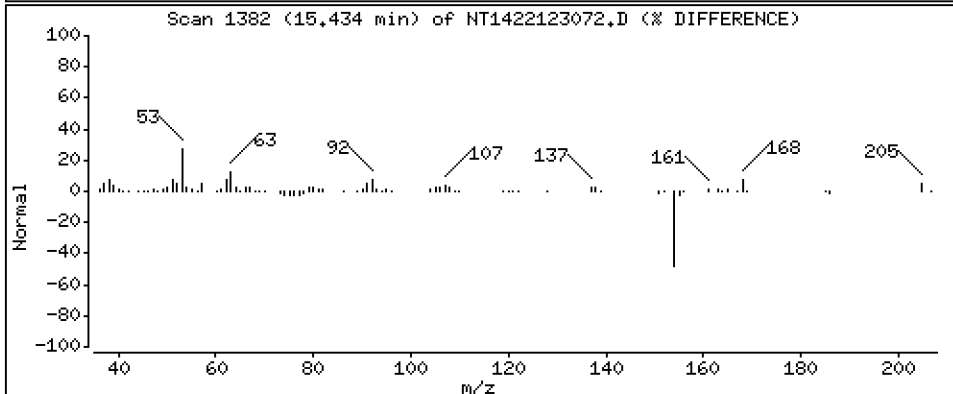
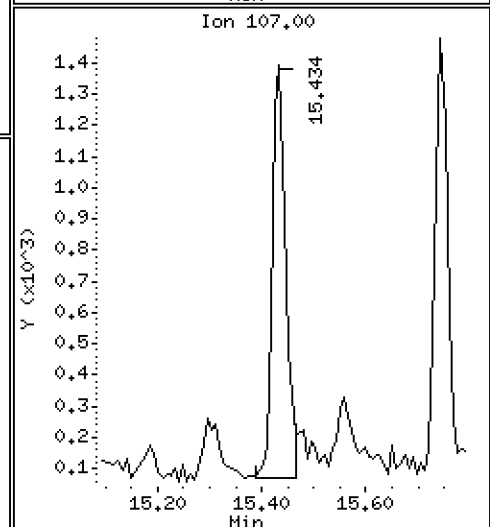
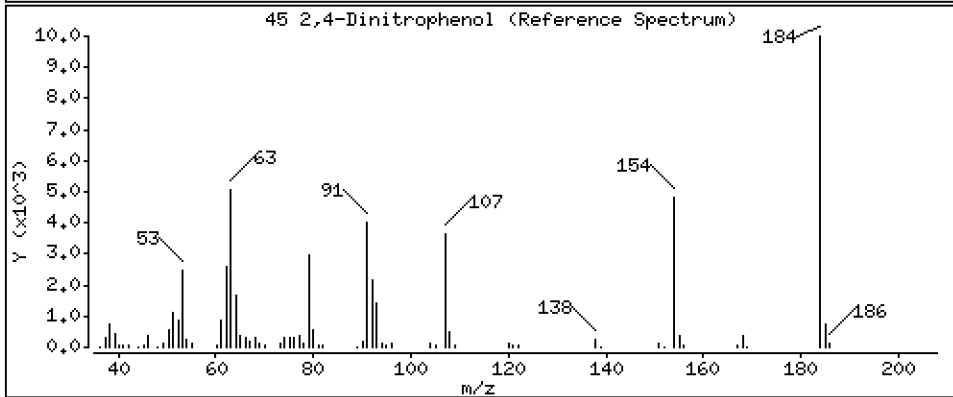
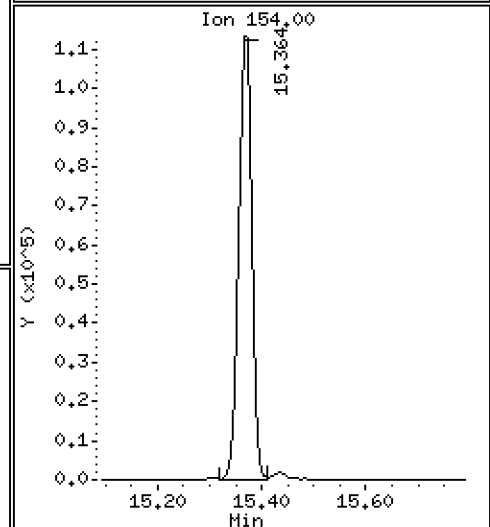
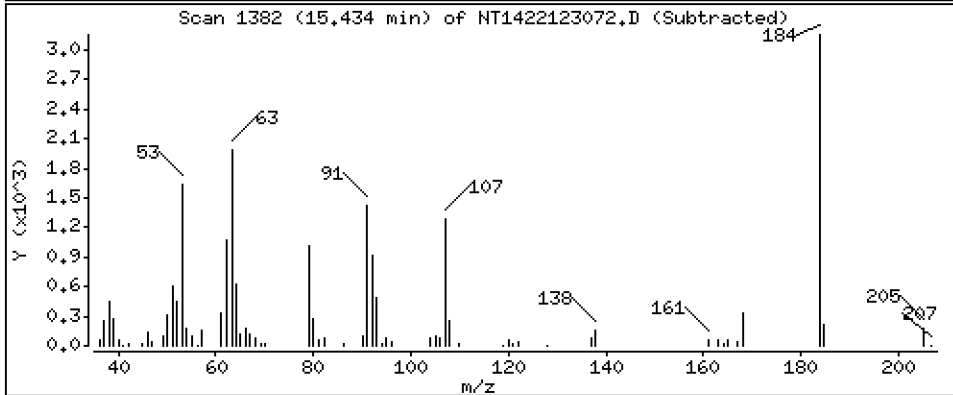
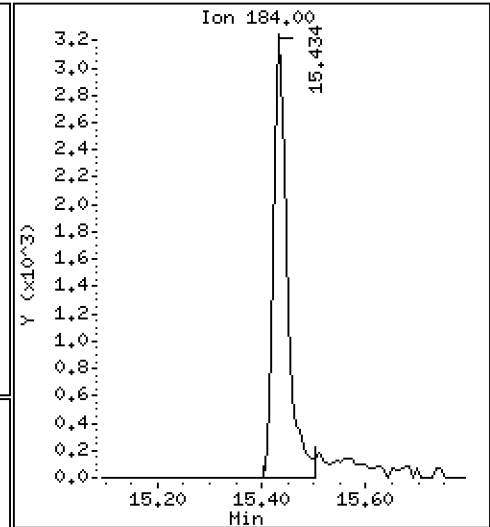
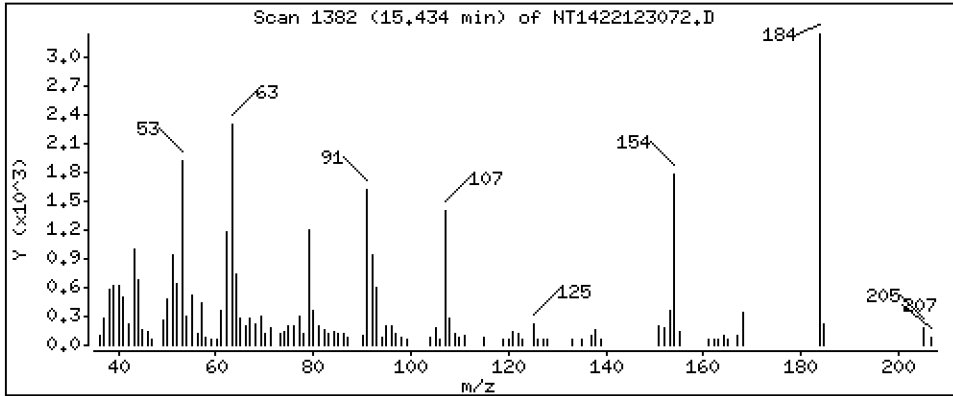
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,6577 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

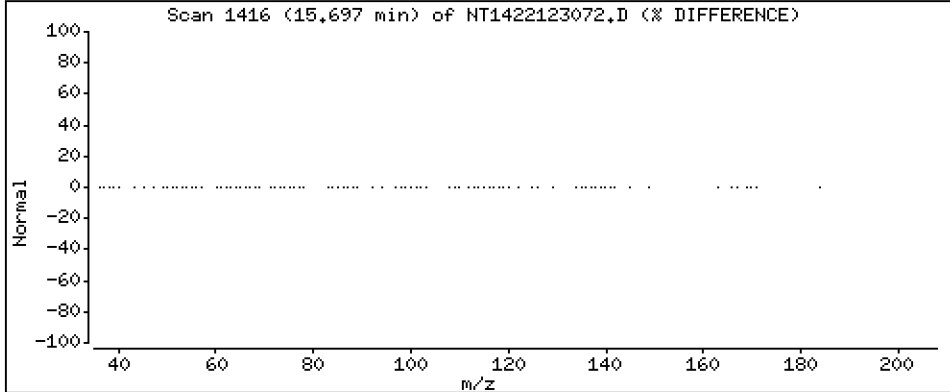
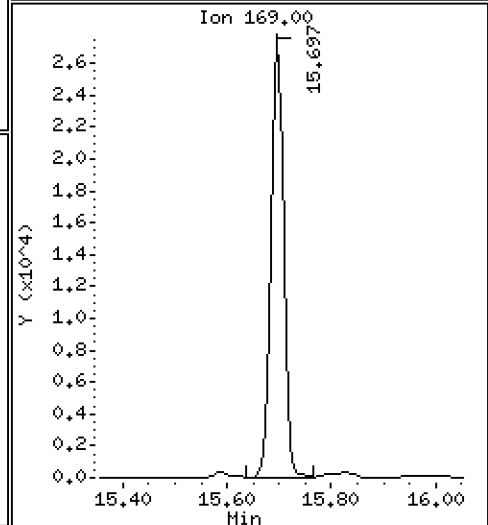
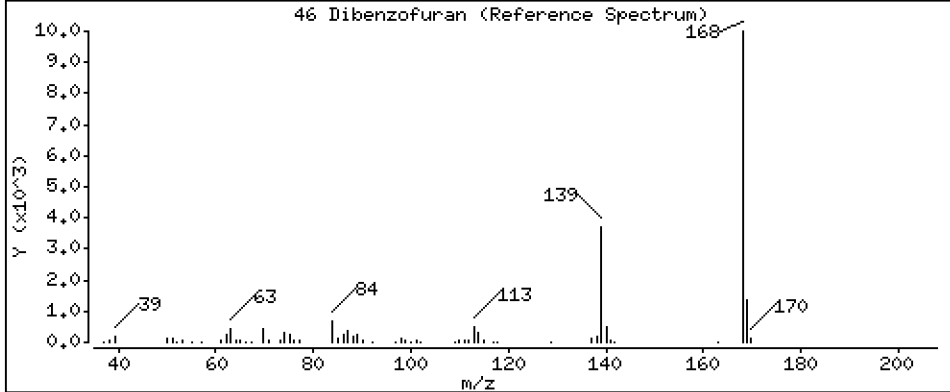
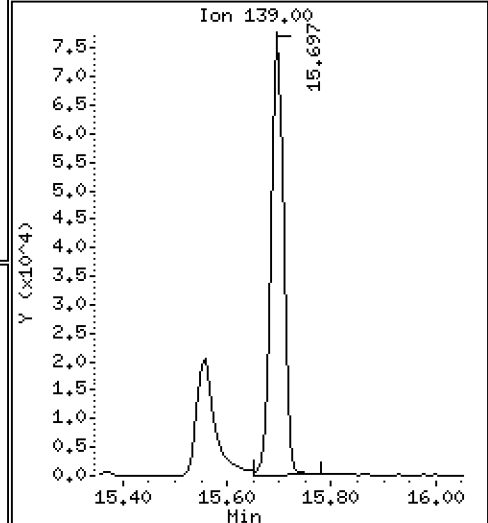
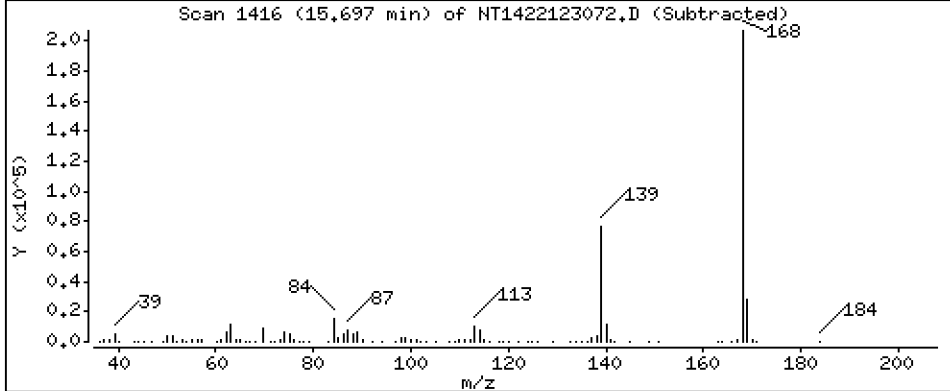
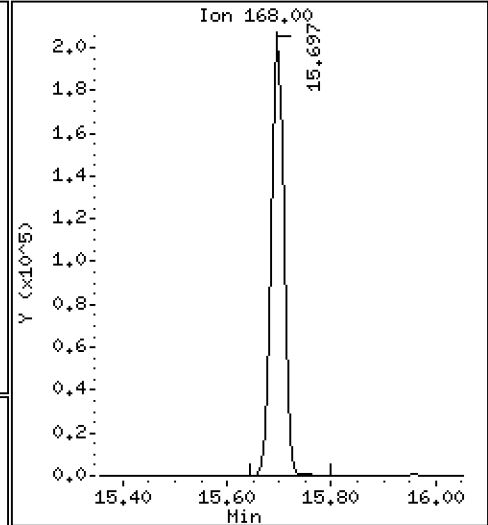
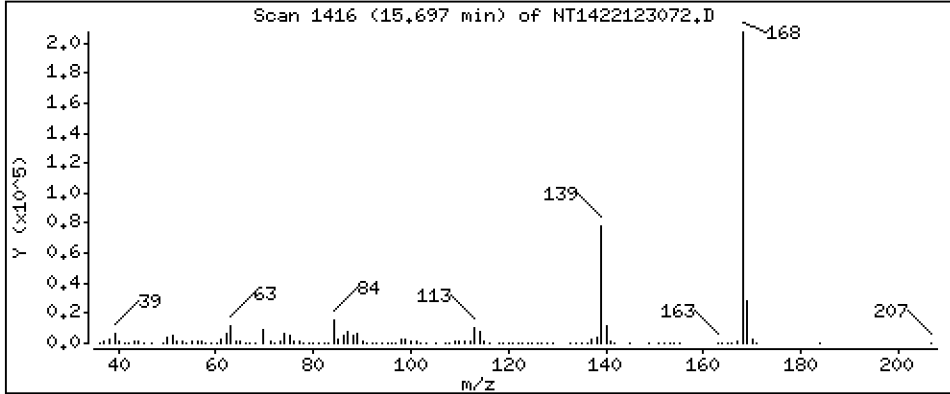
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 5,003 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

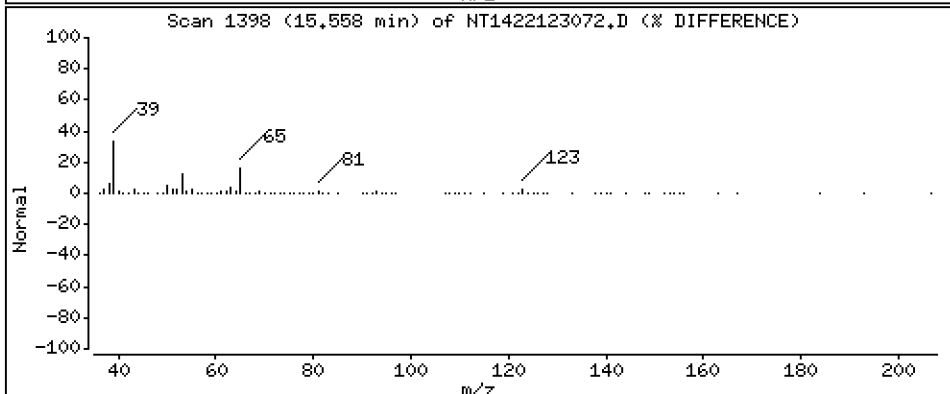
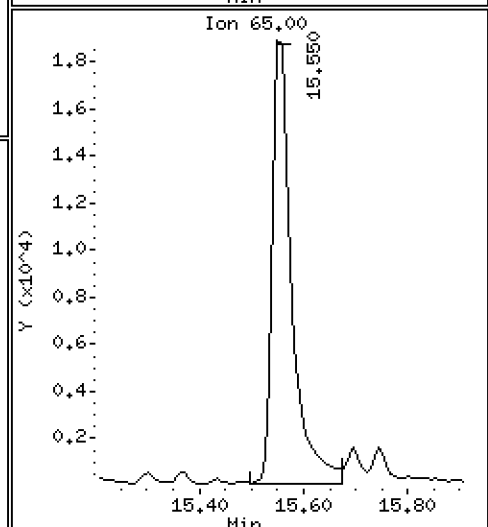
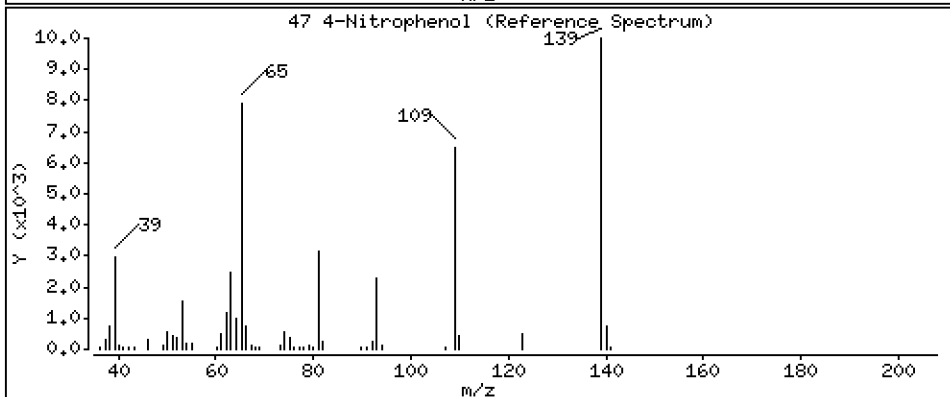
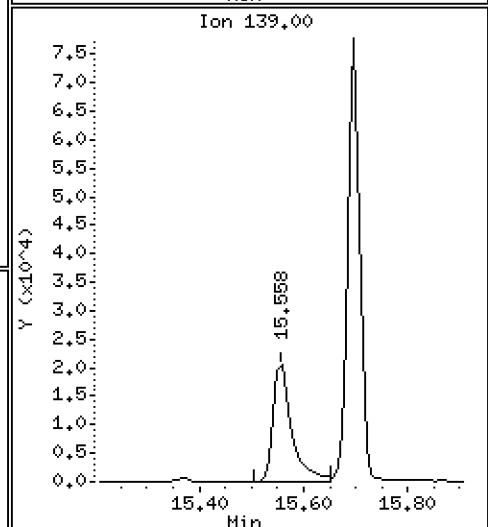
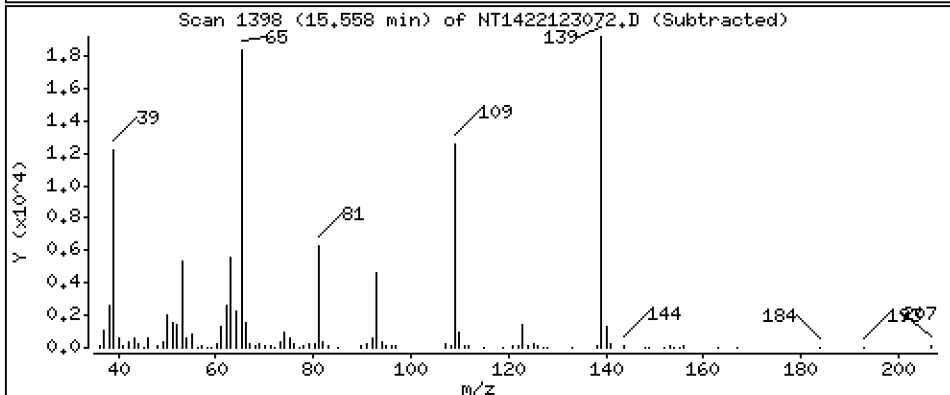
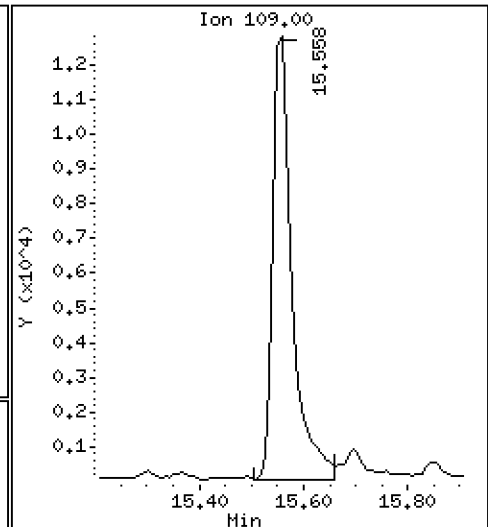
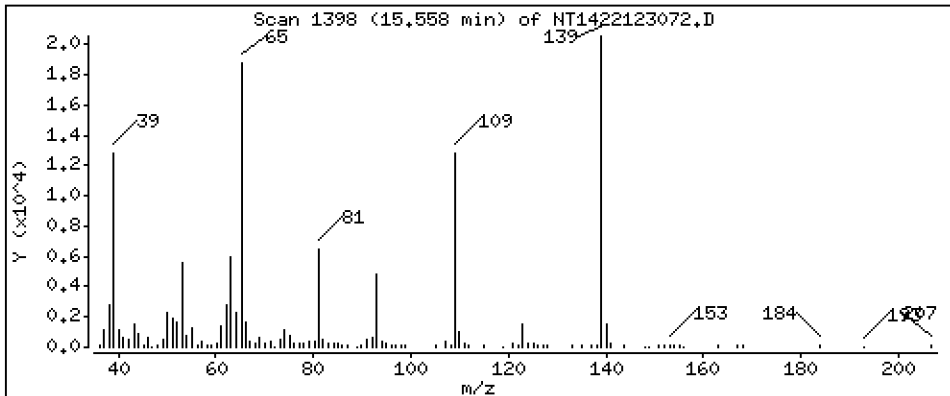
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 5,330 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

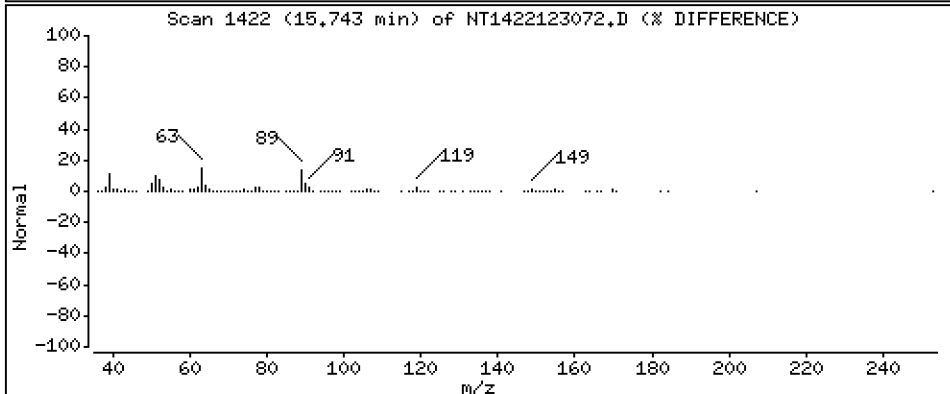
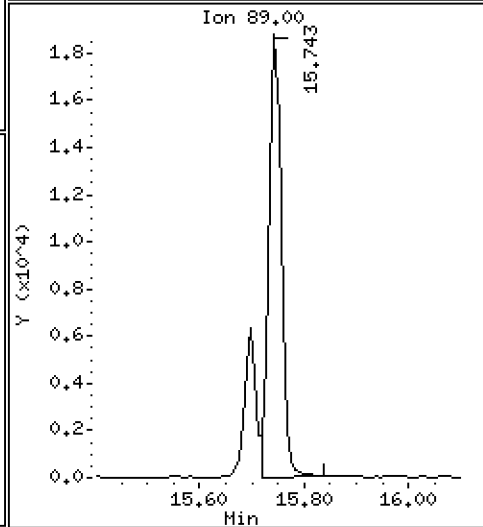
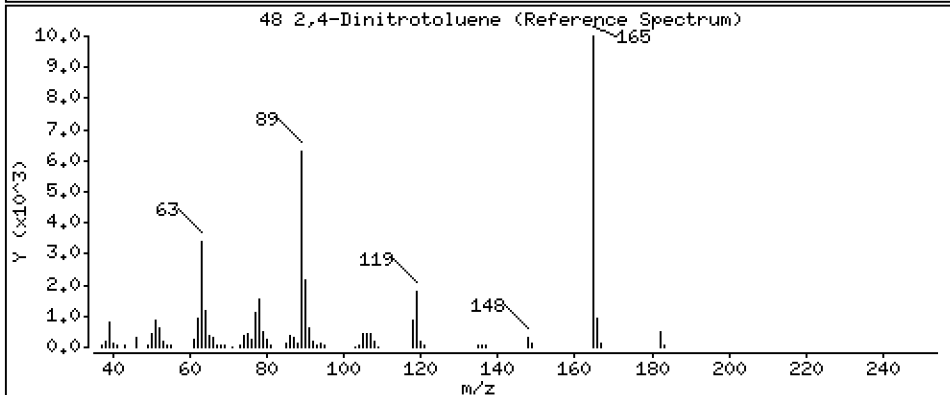
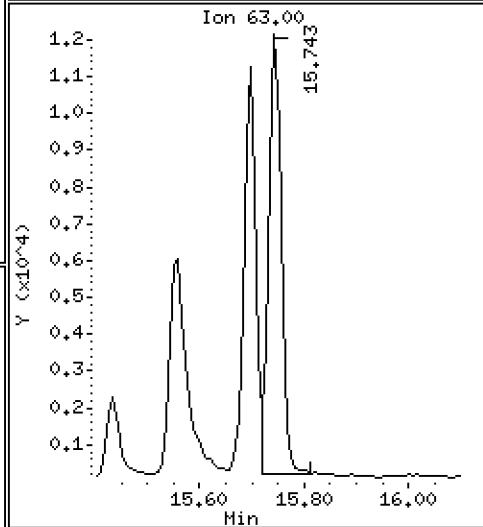
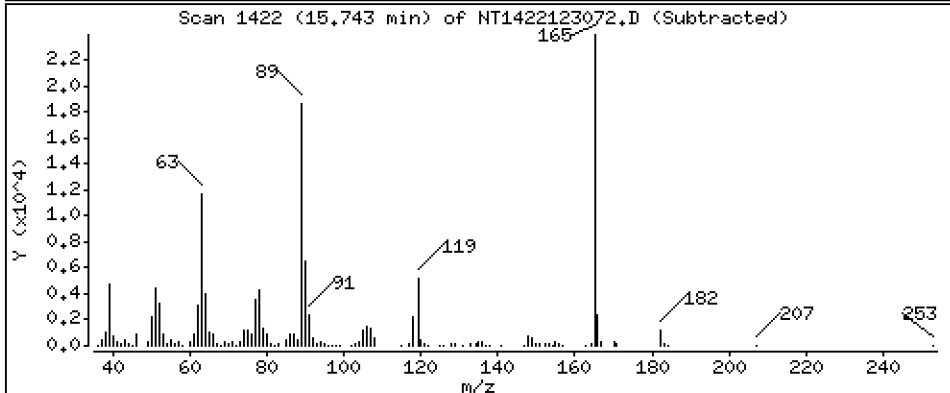
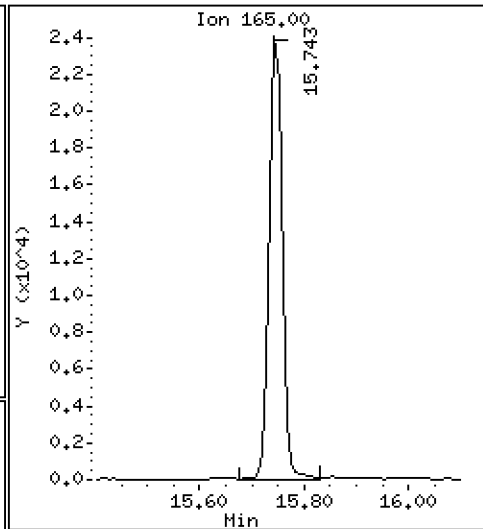
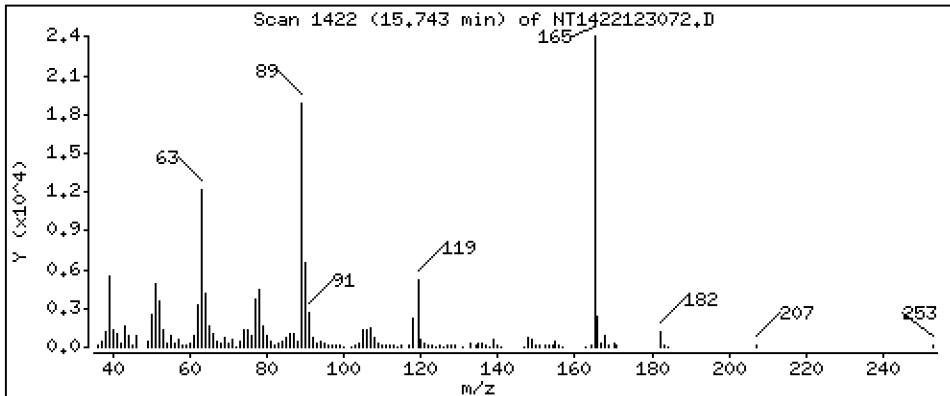
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 2,851 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

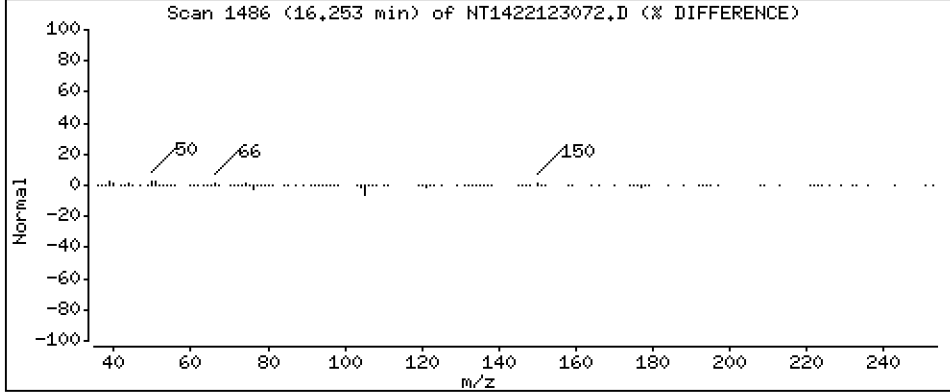
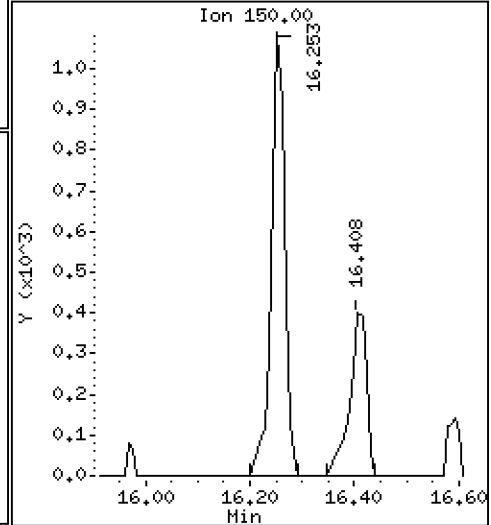
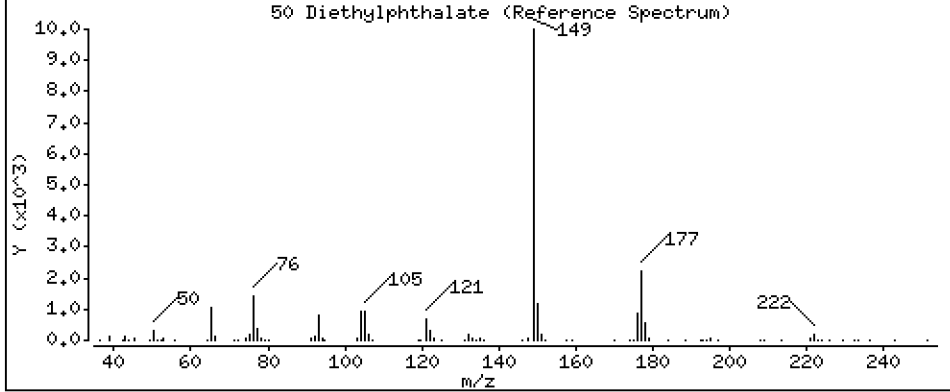
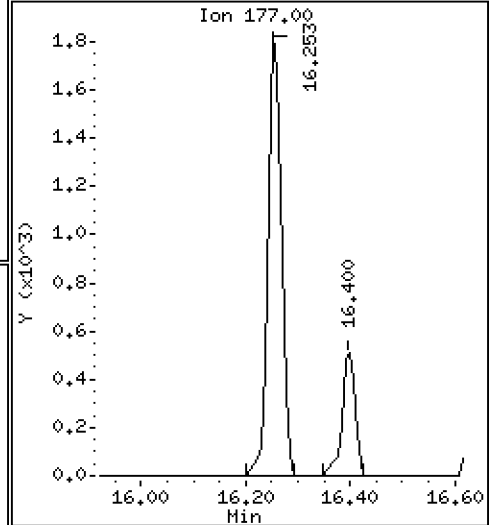
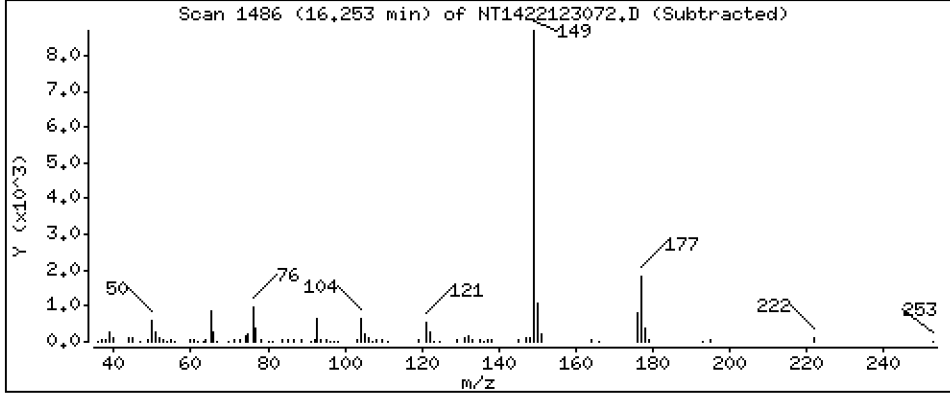
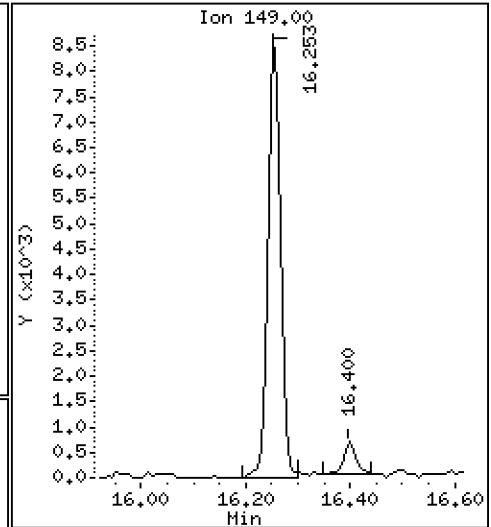
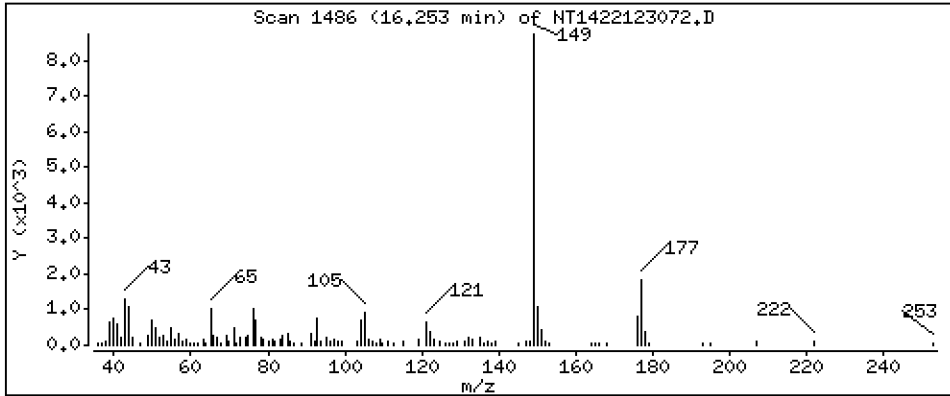
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2639 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

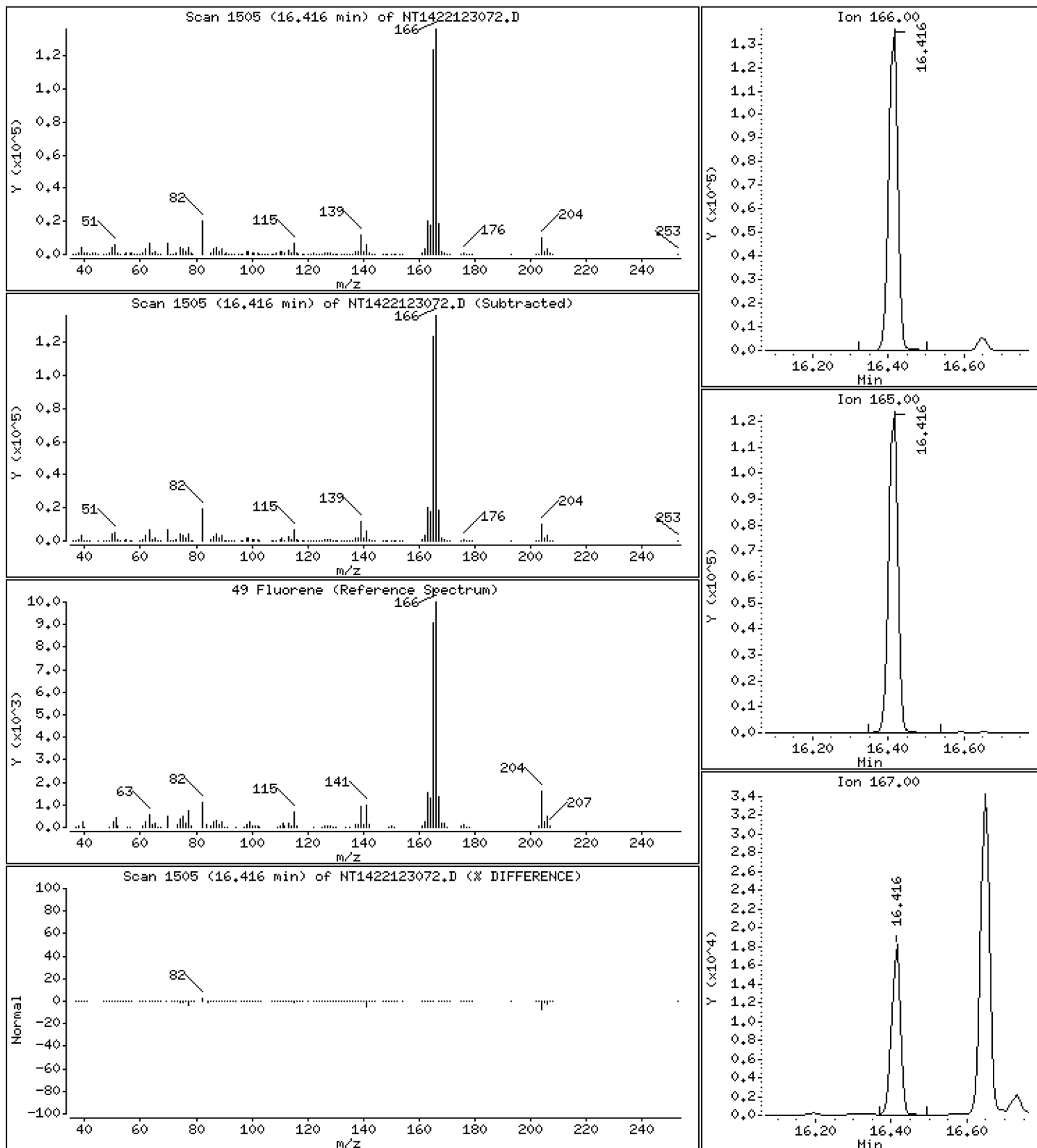
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

49 Fluorene

Concentration: 3,341 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

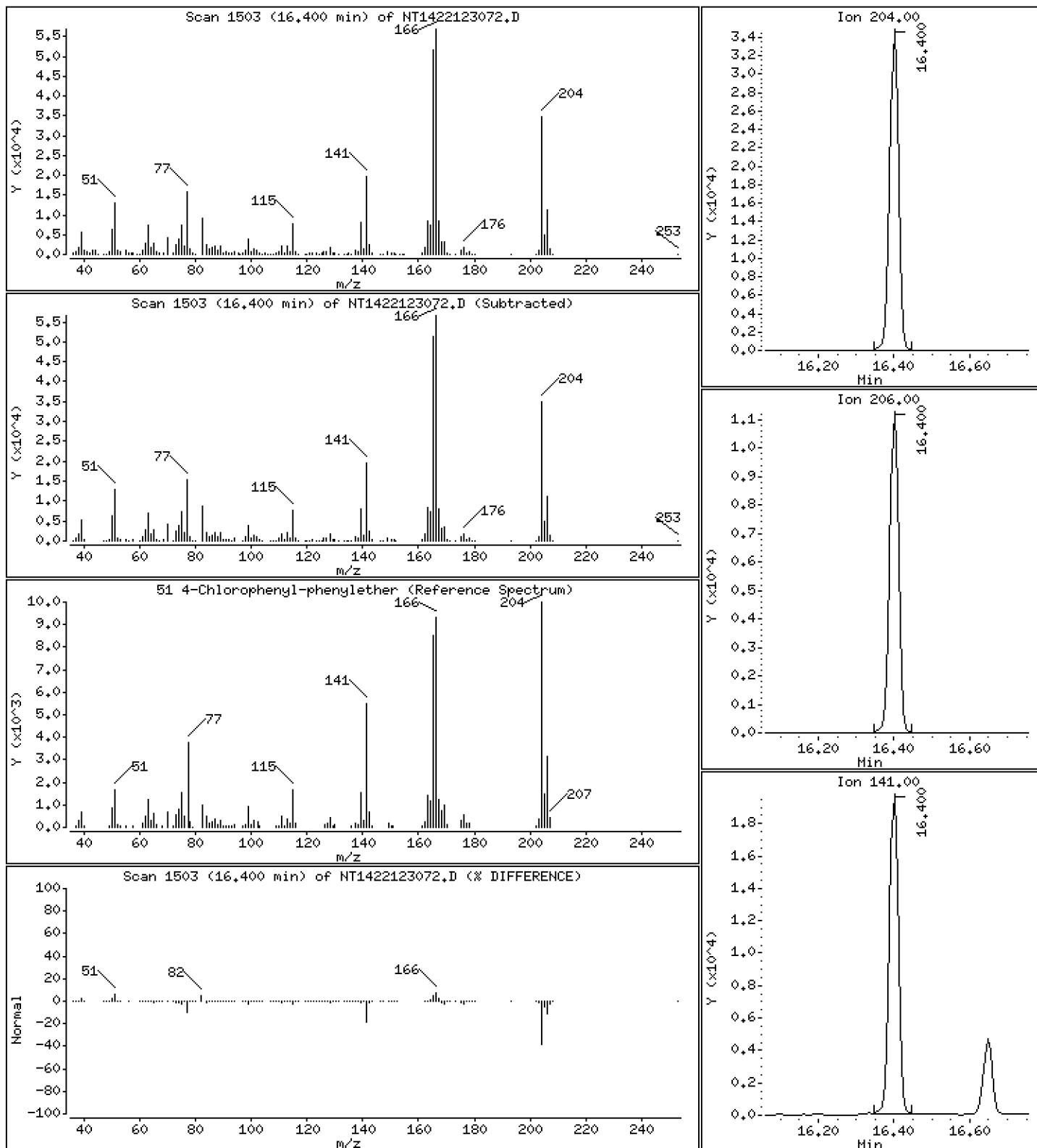
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

51 4-Chlorophenyl-phenylether

Concentration: 1.866 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

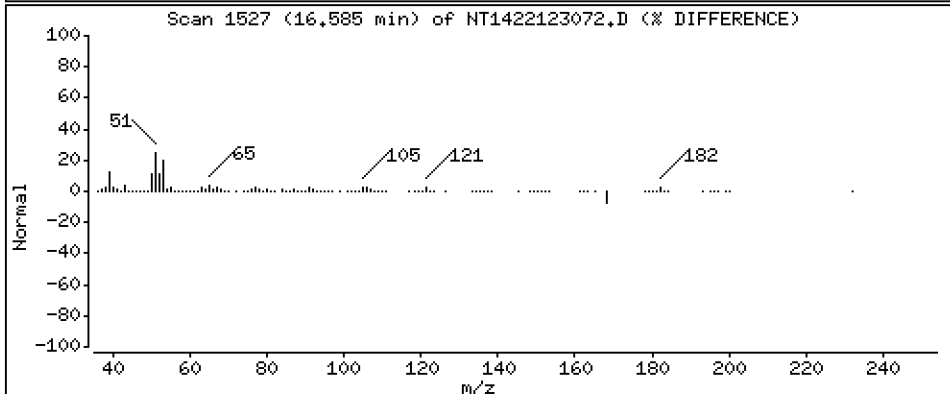
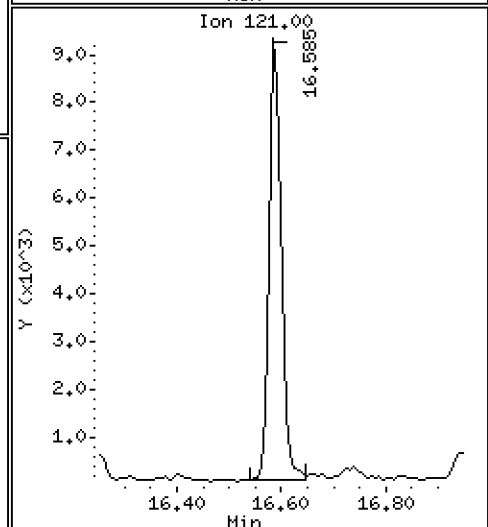
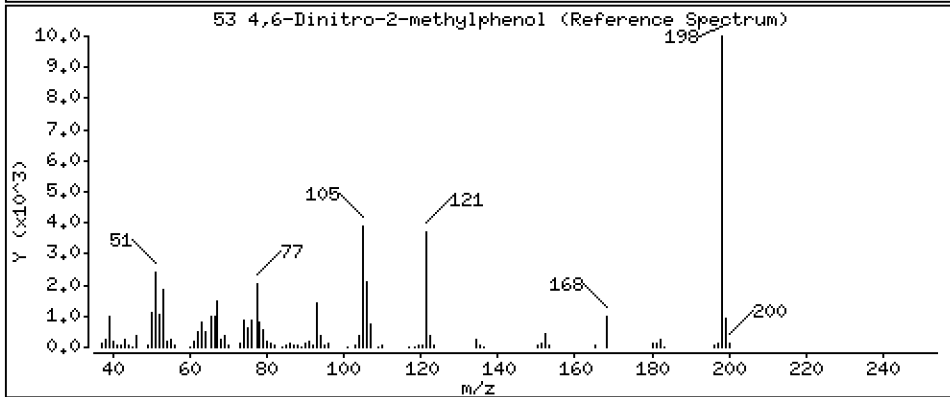
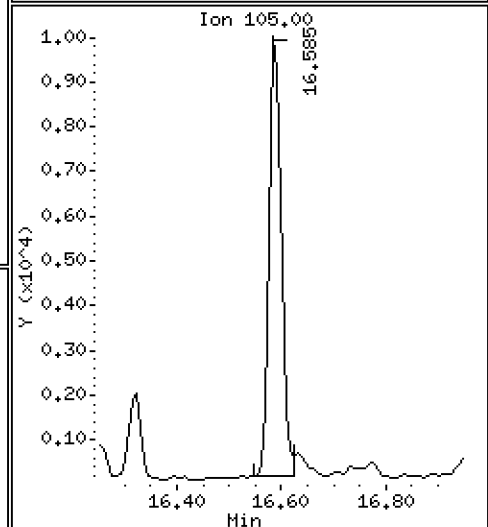
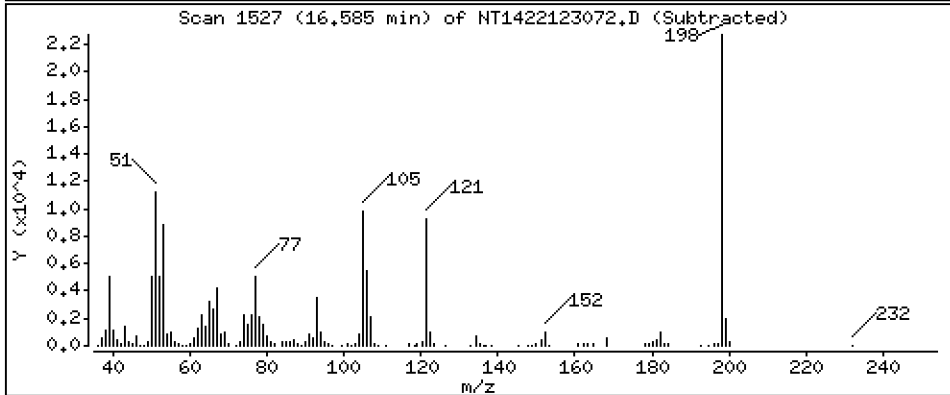
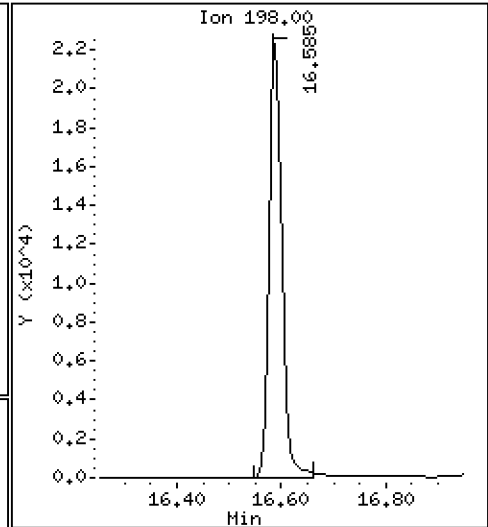
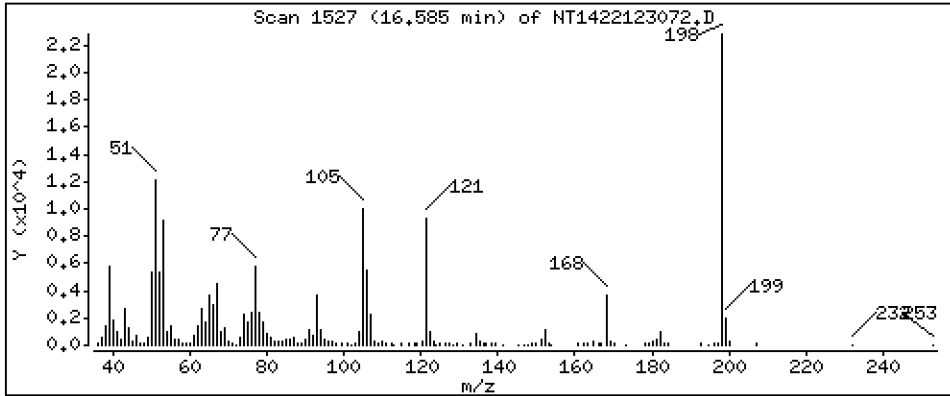
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 3,188 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

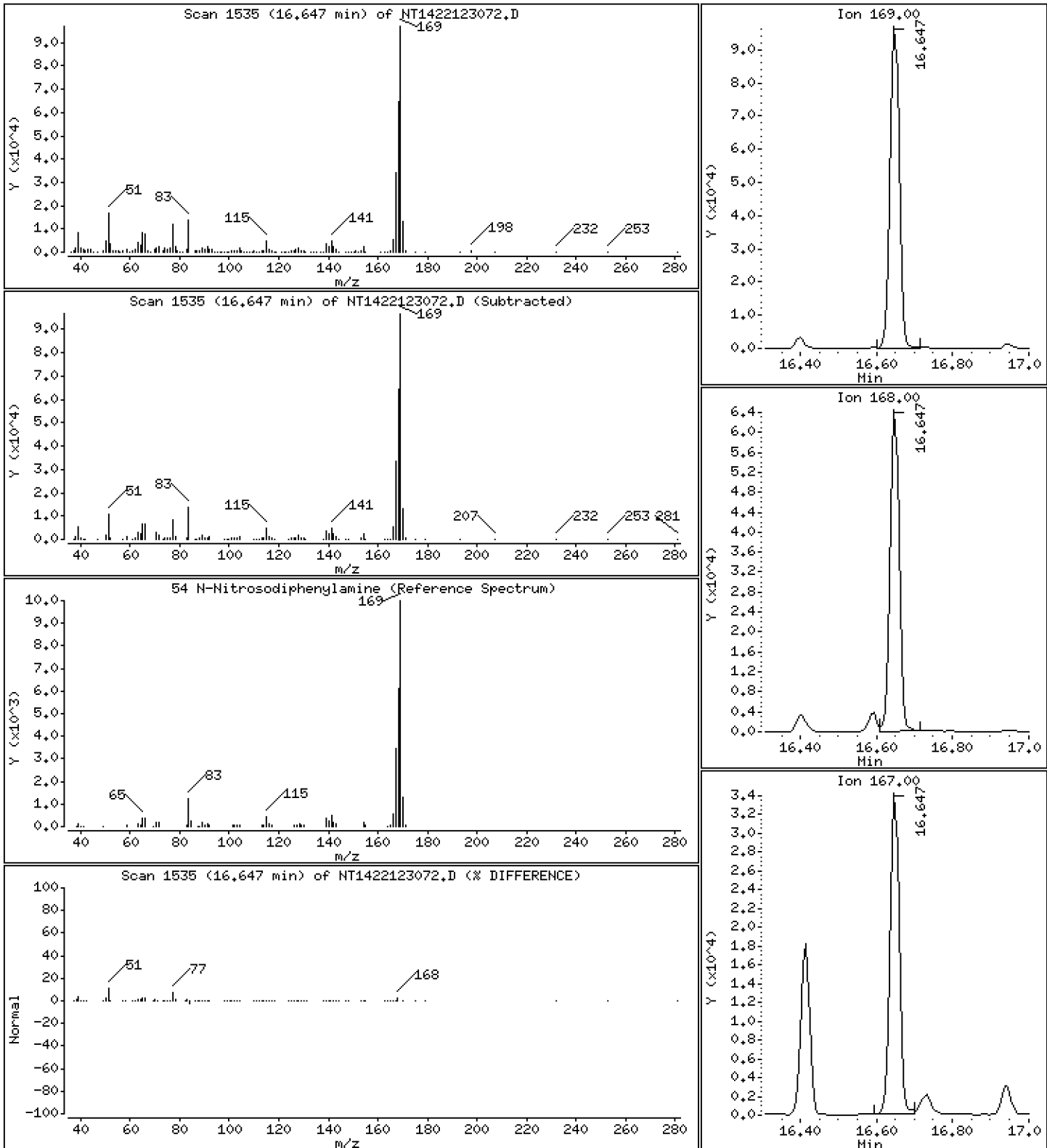
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 3,322 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

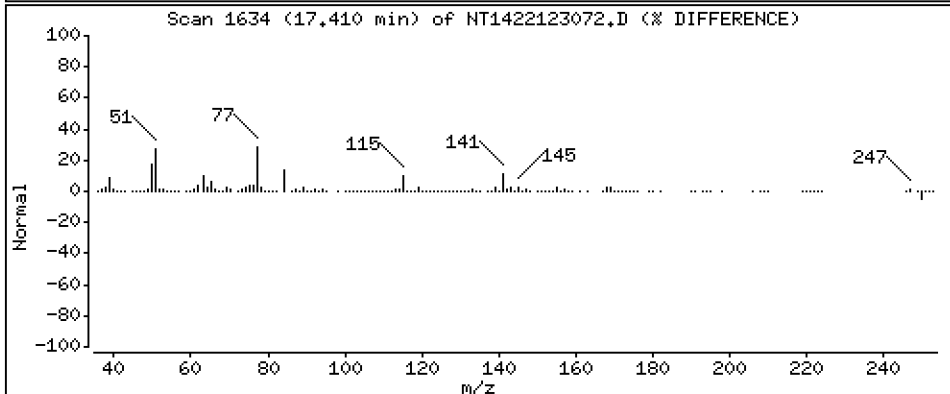
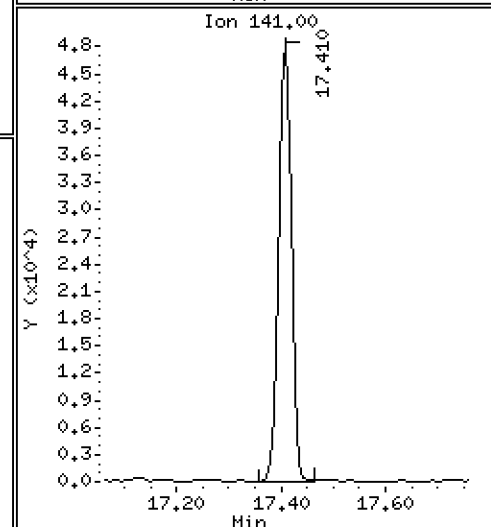
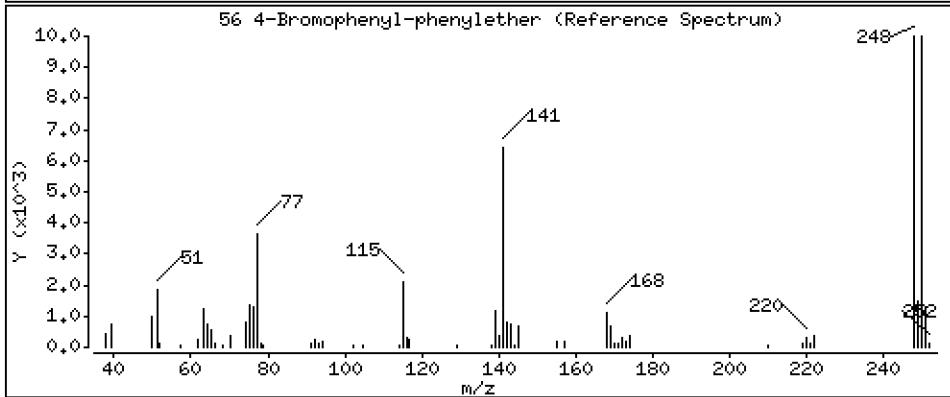
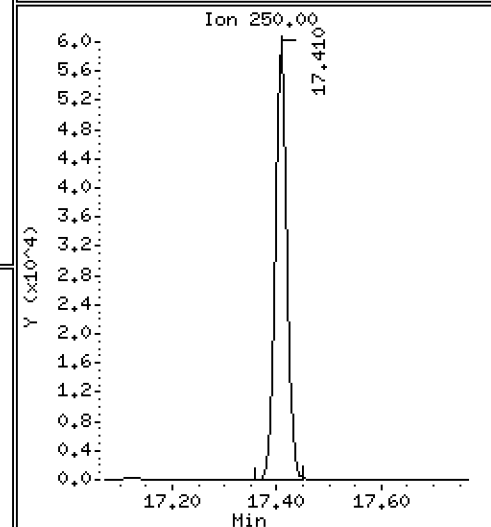
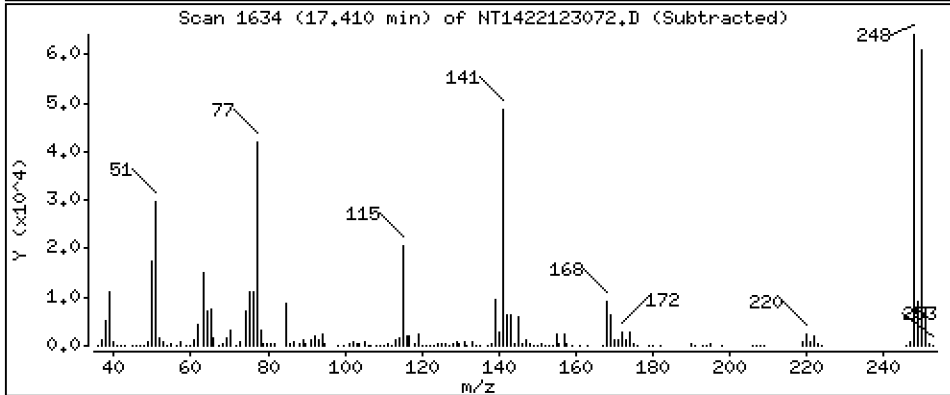
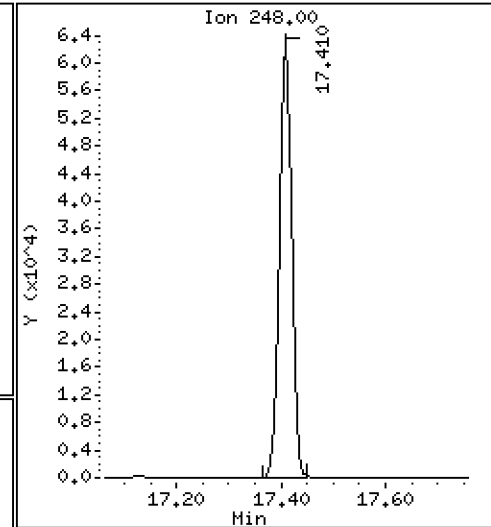
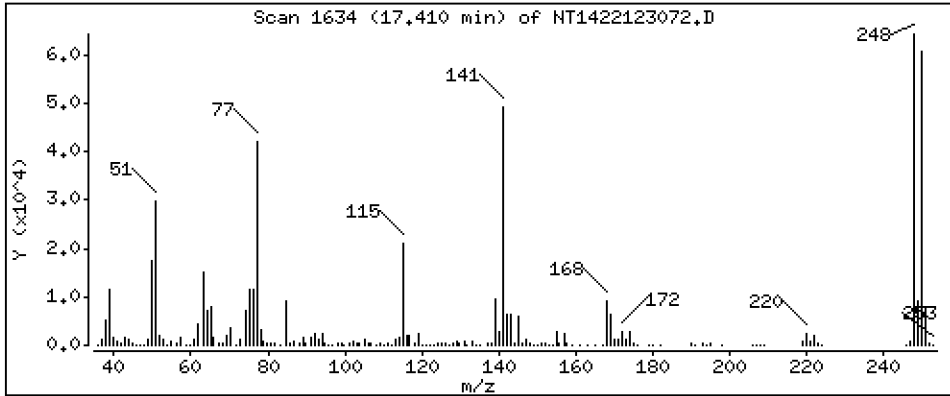
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 5,499 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

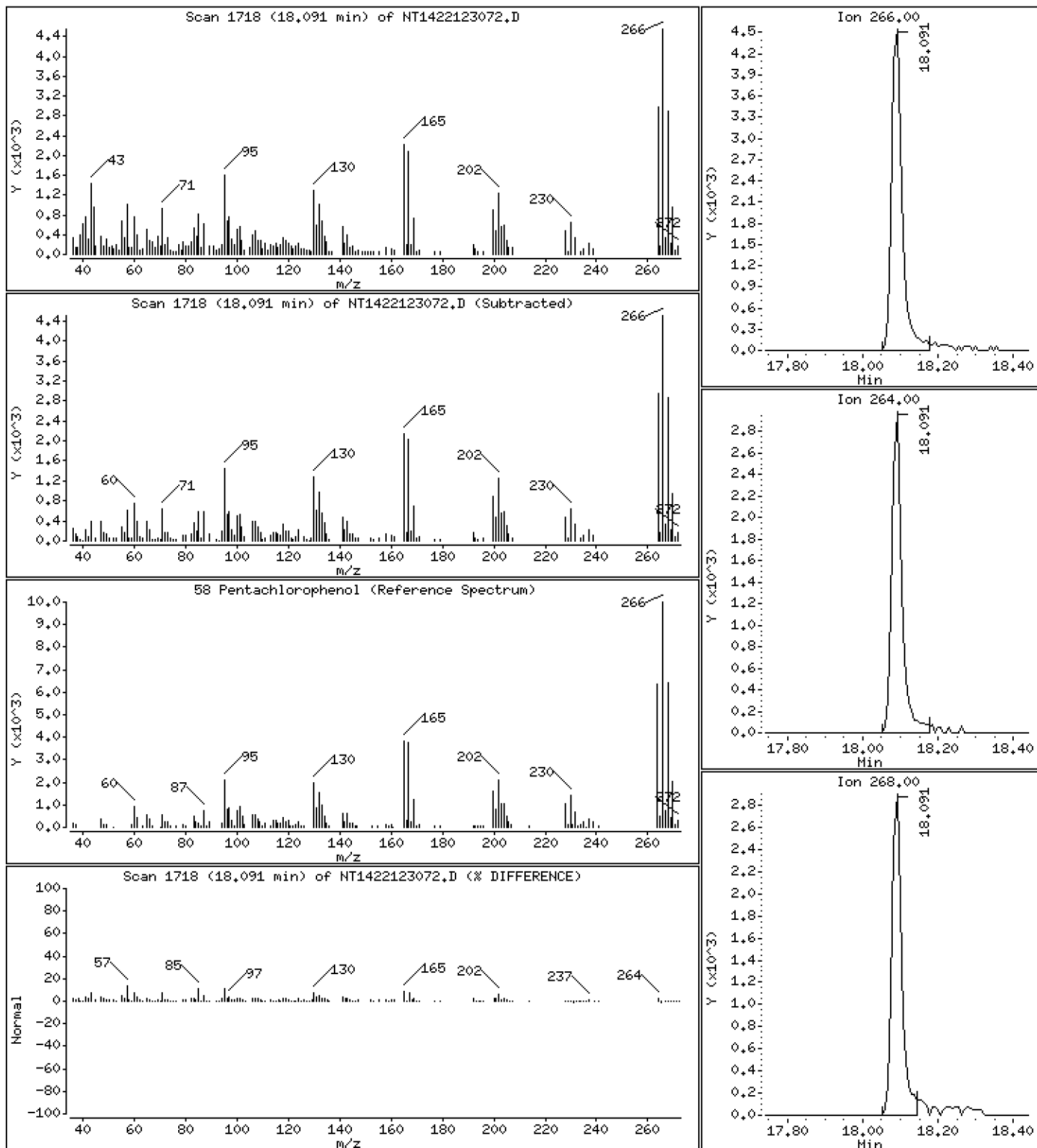
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 1,002 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

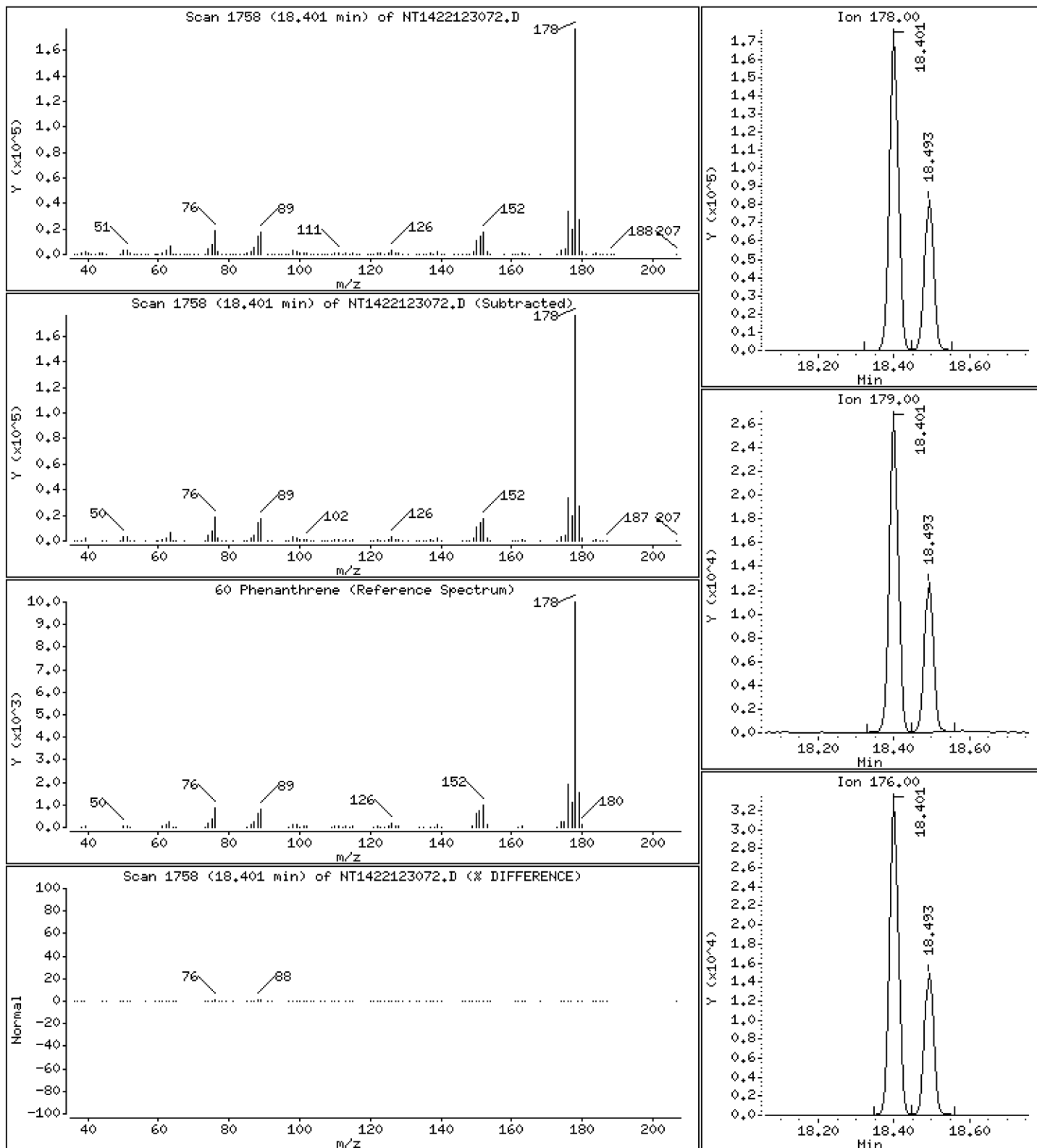
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 3,976 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

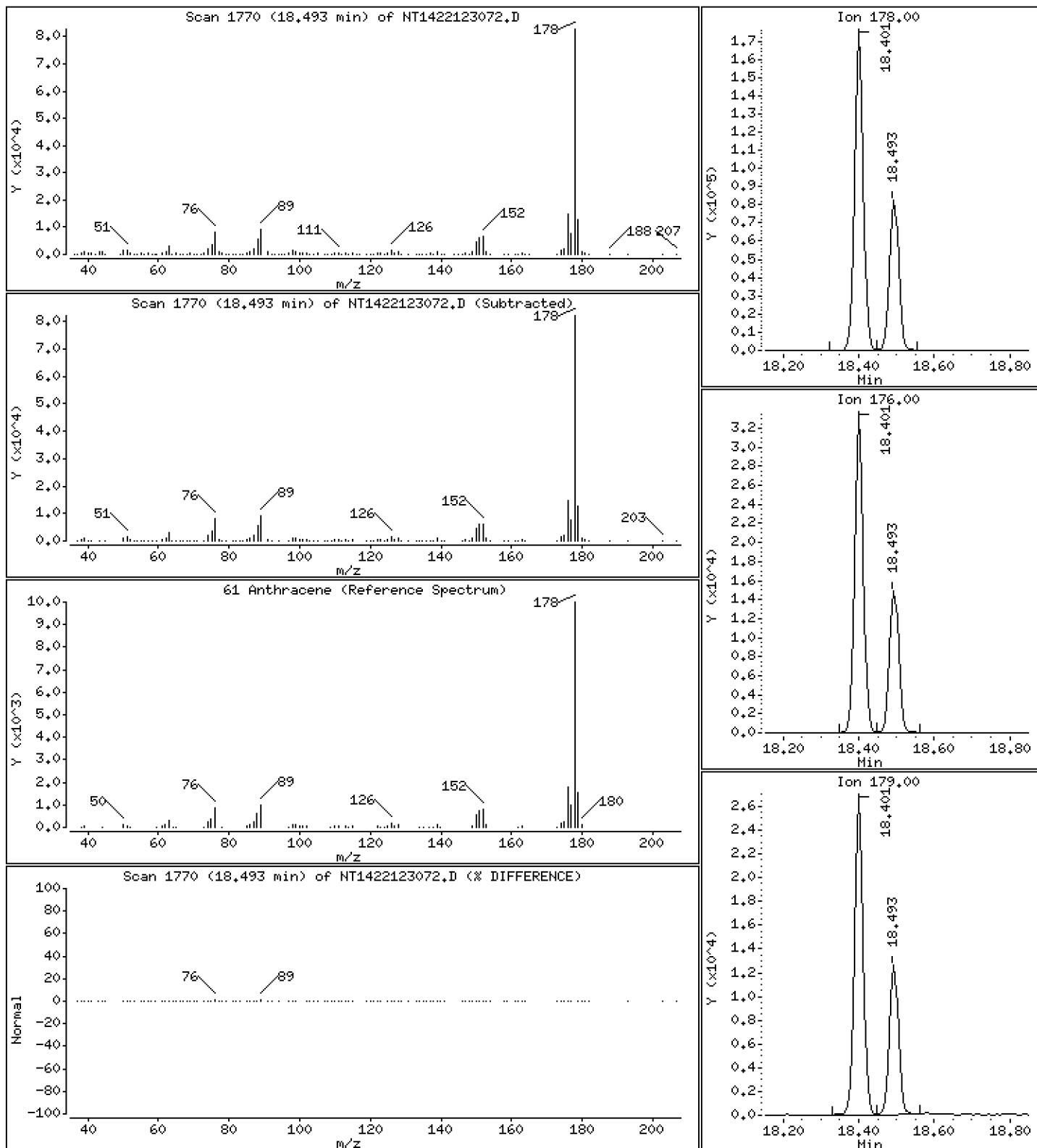
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

61 Anthracene

Concentration: 1.976 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

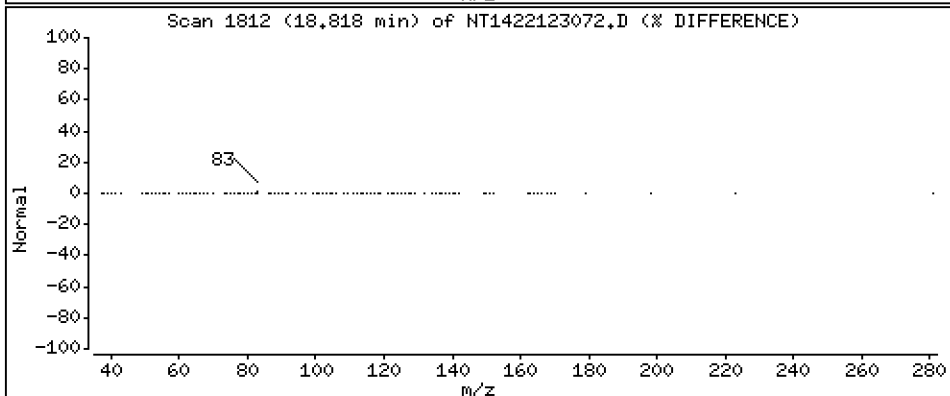
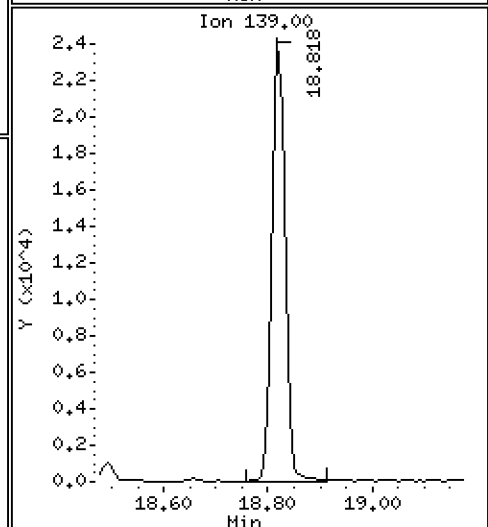
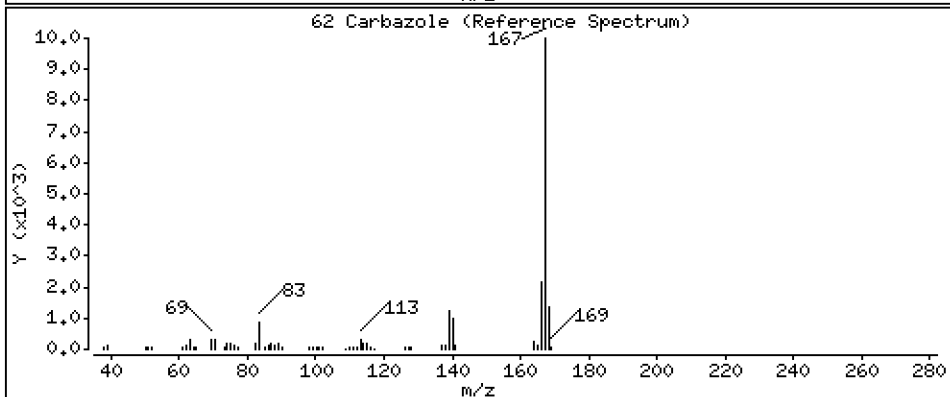
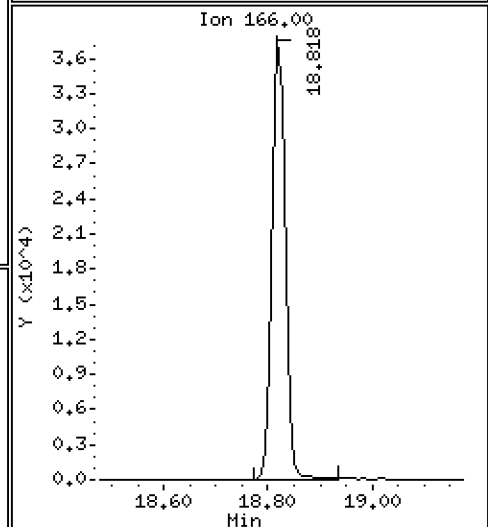
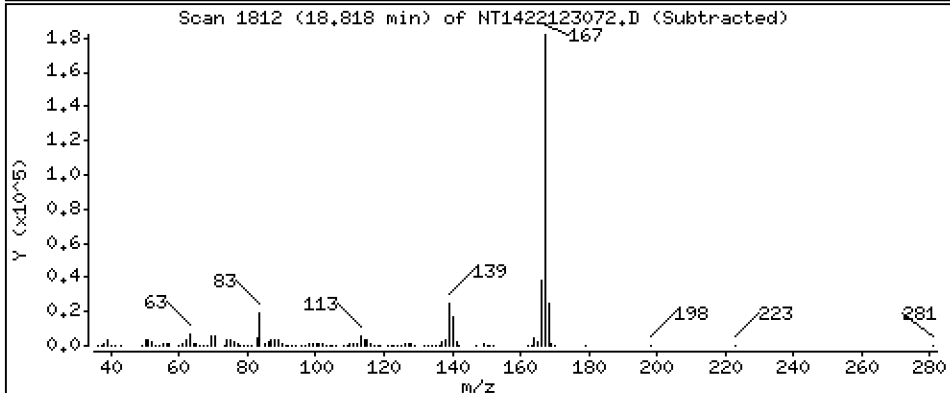
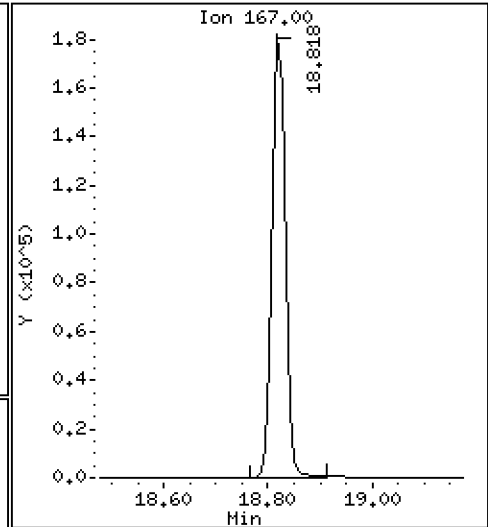
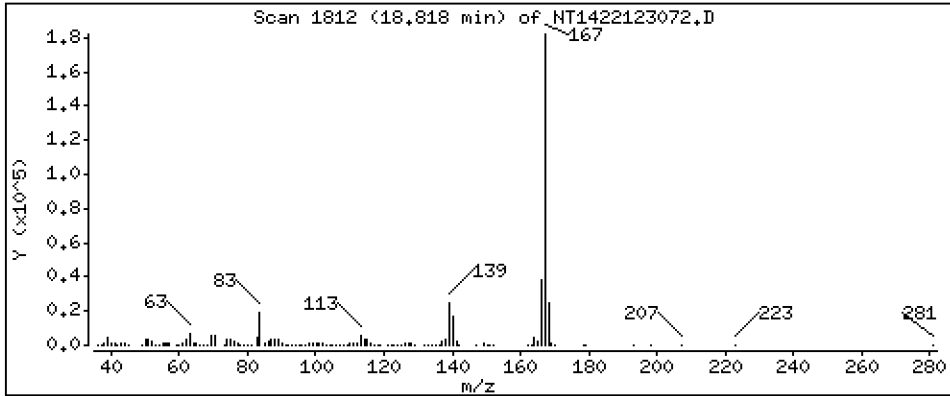
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,708 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

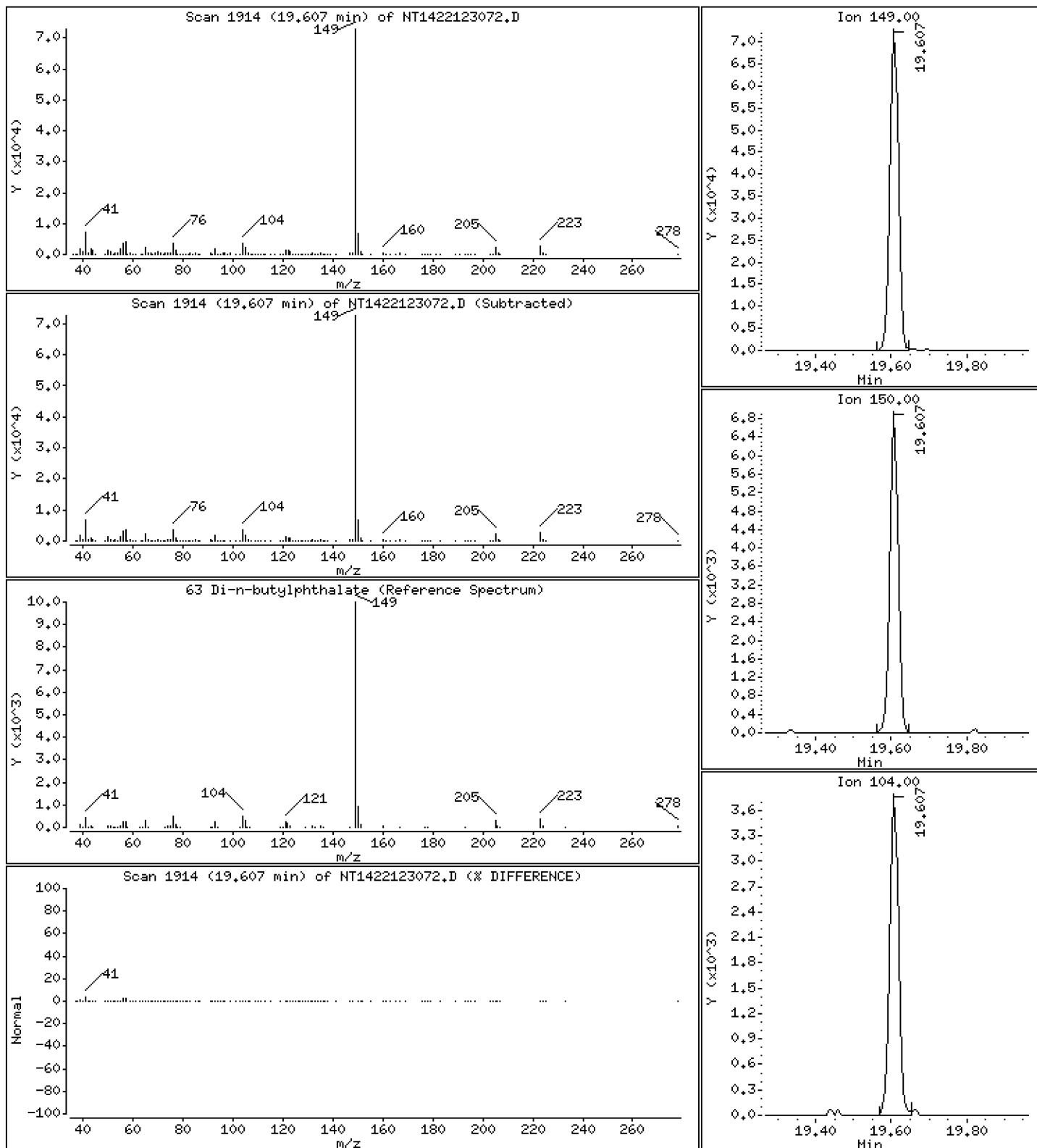
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 1.440 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

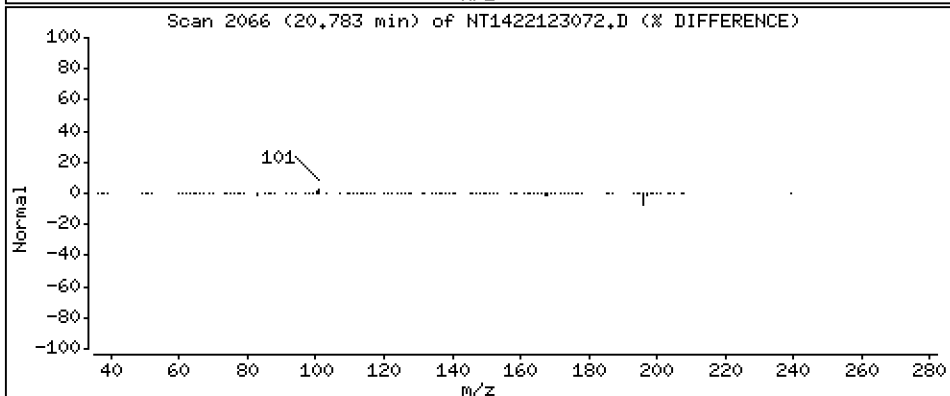
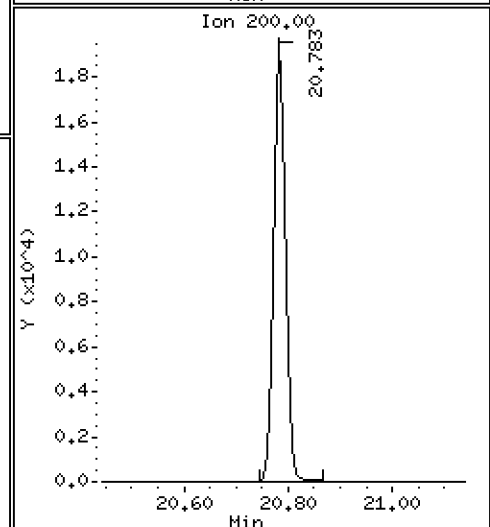
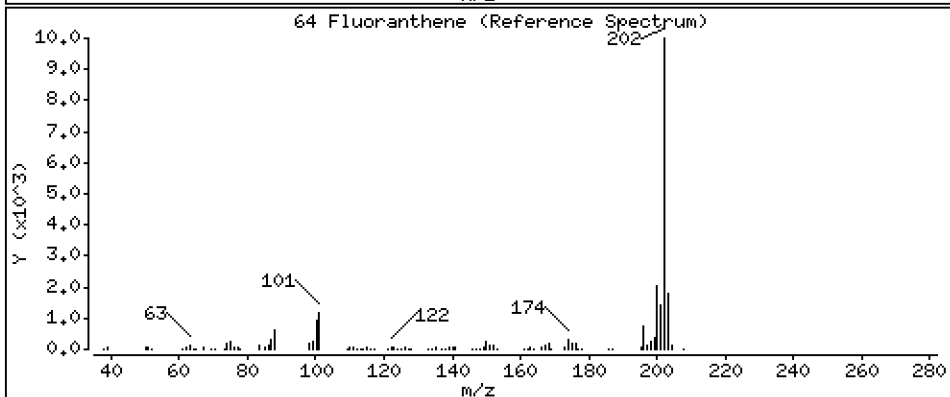
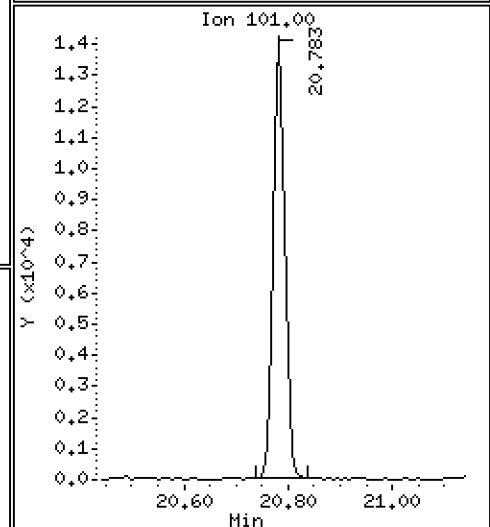
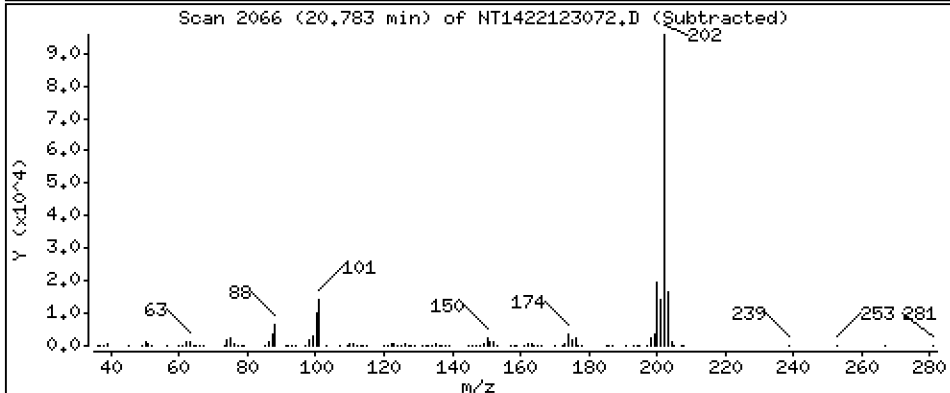
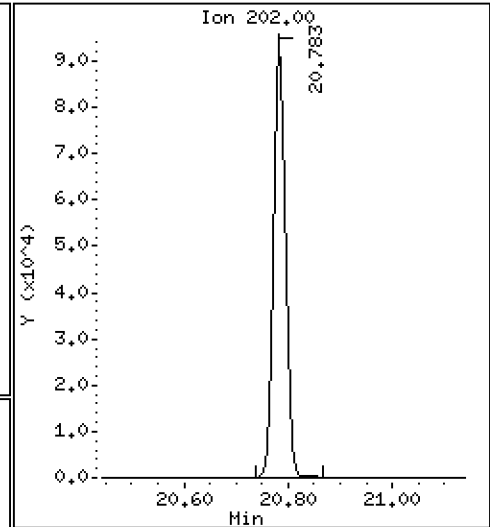
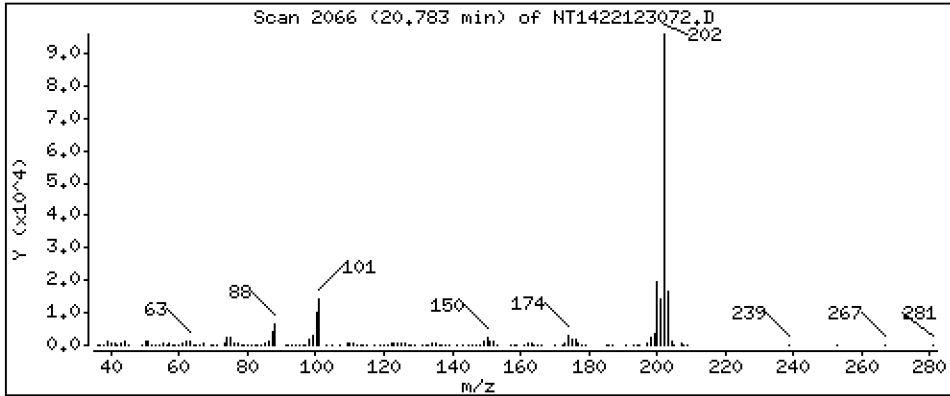
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 2,131 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

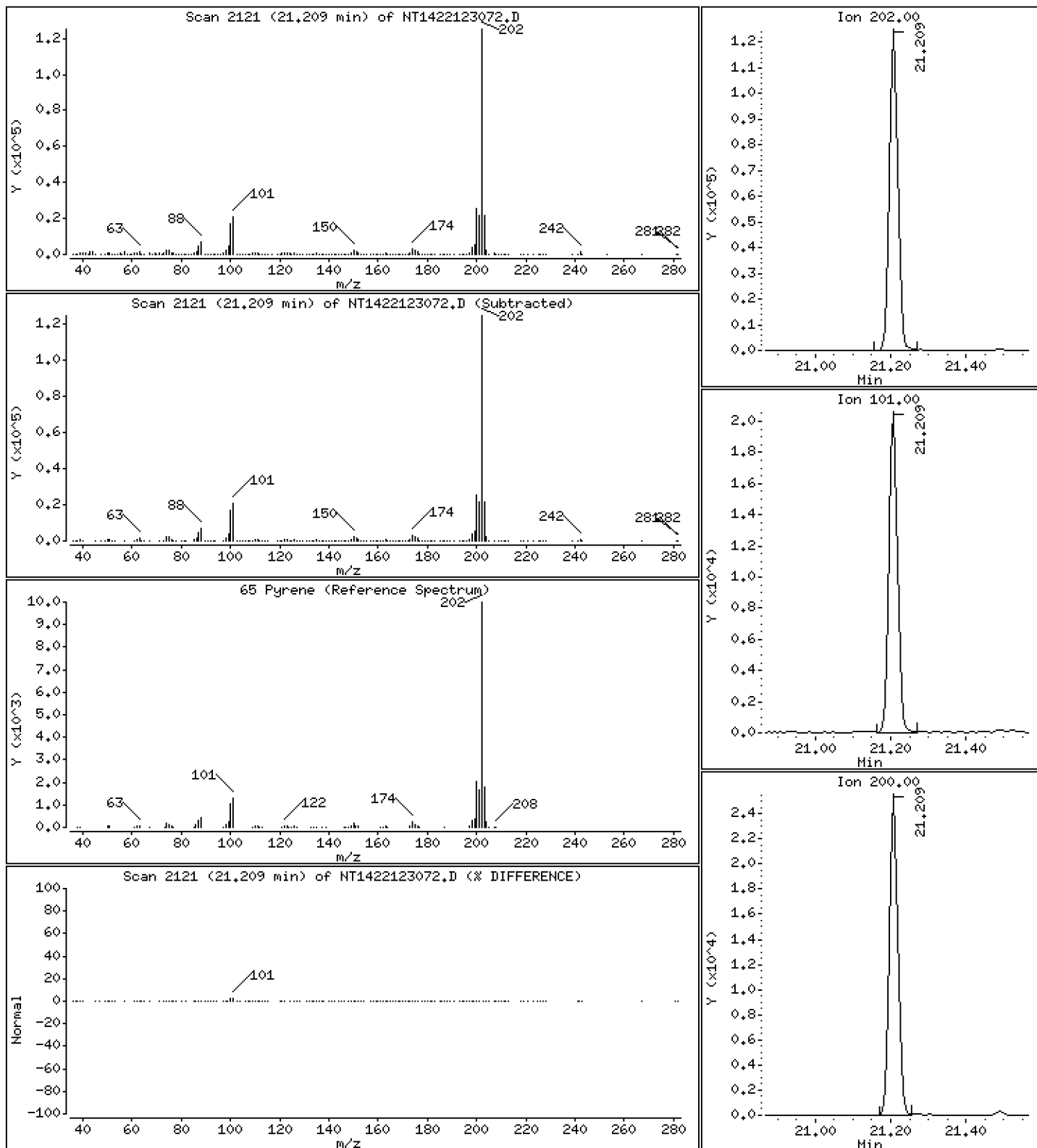
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 2,659 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

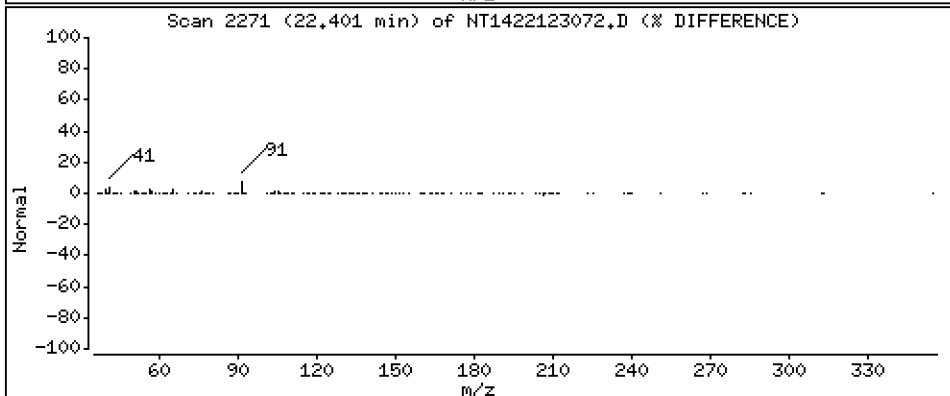
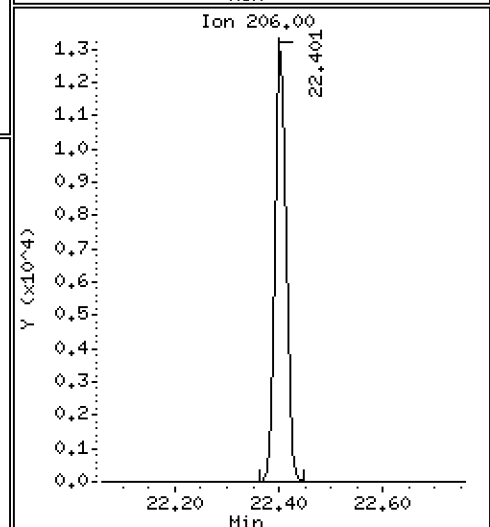
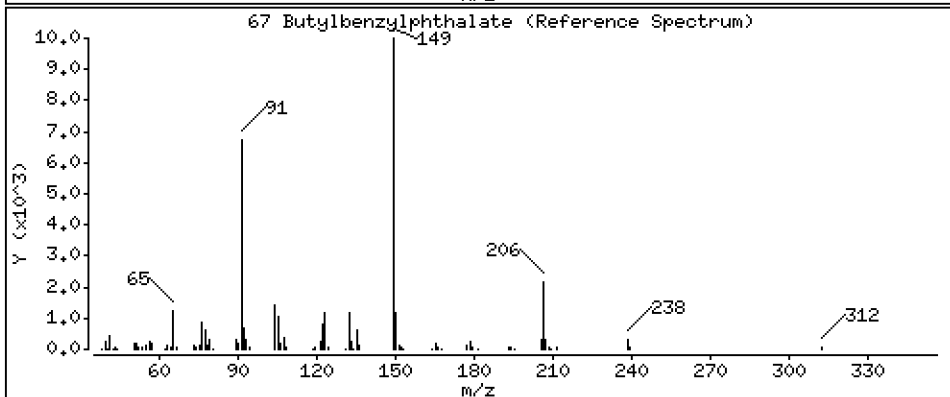
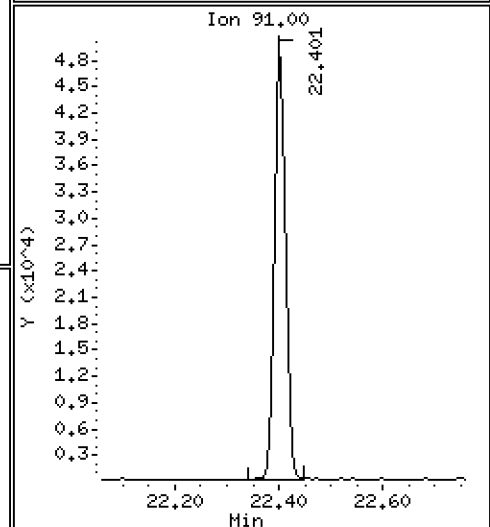
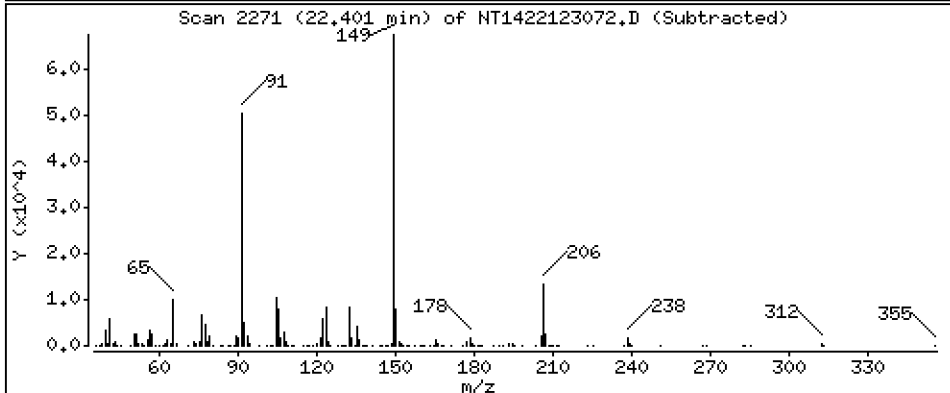
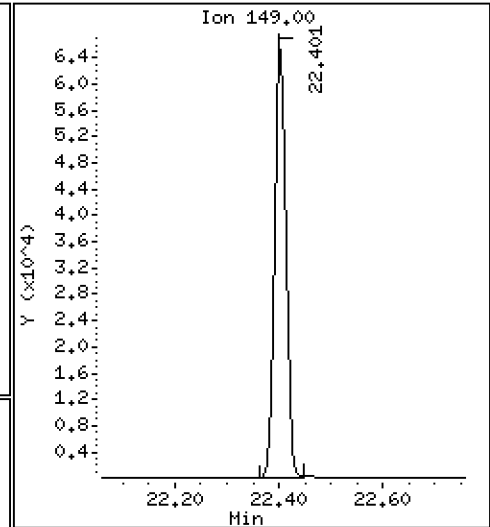
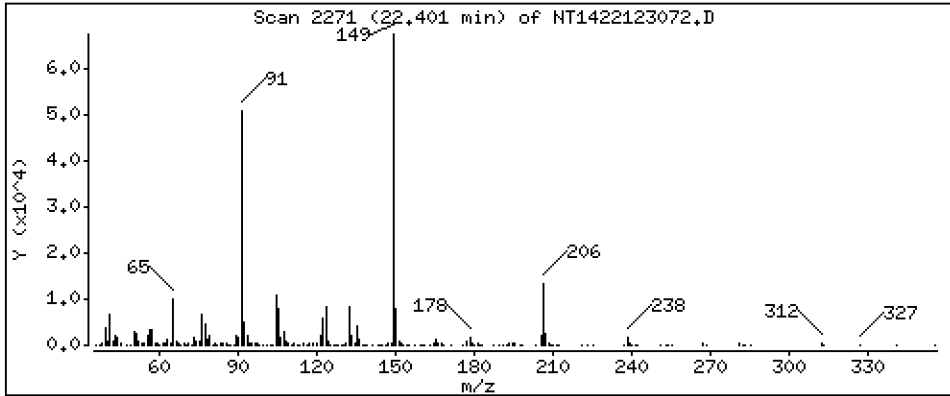
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 3,484 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

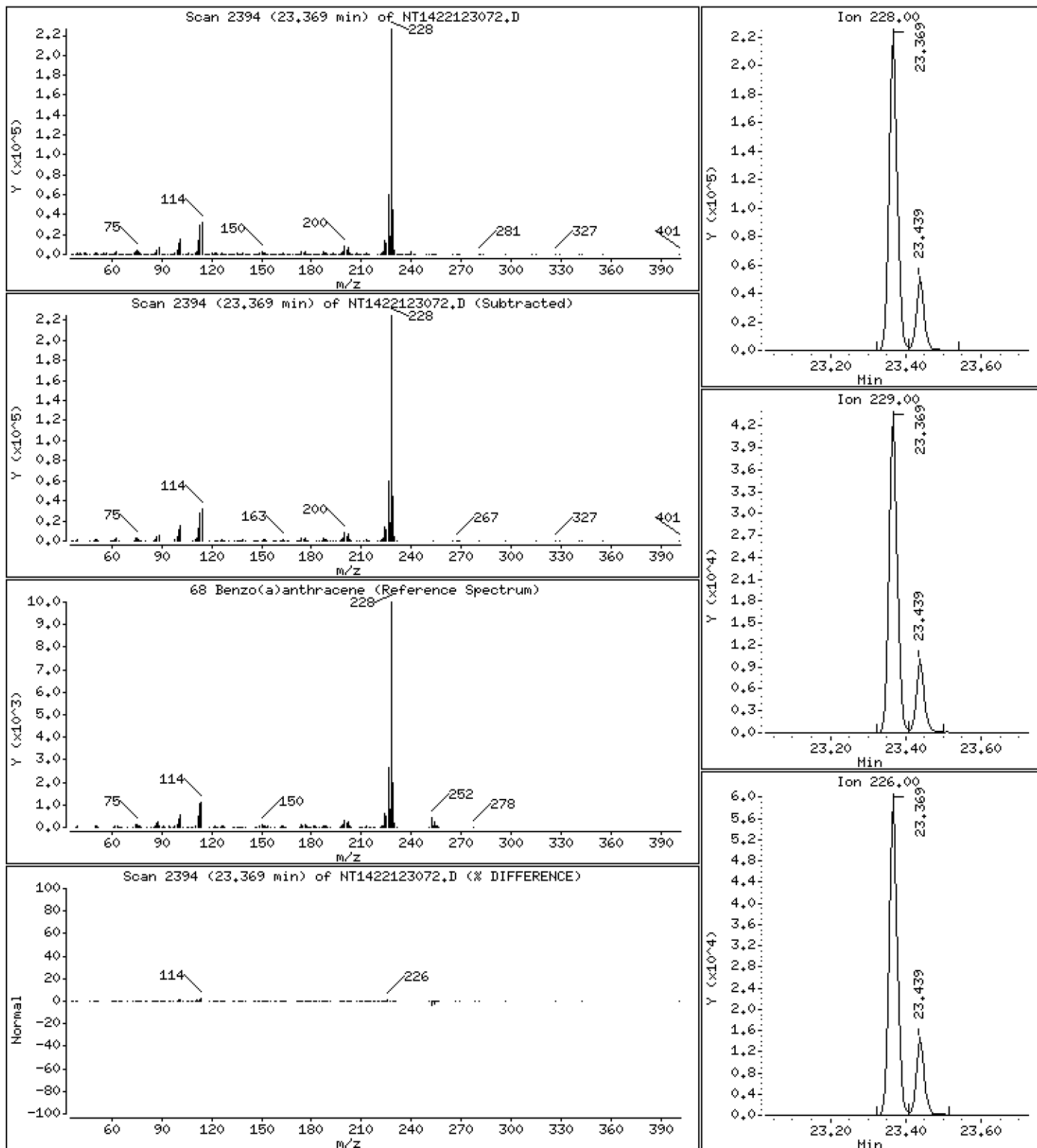
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 5,154 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

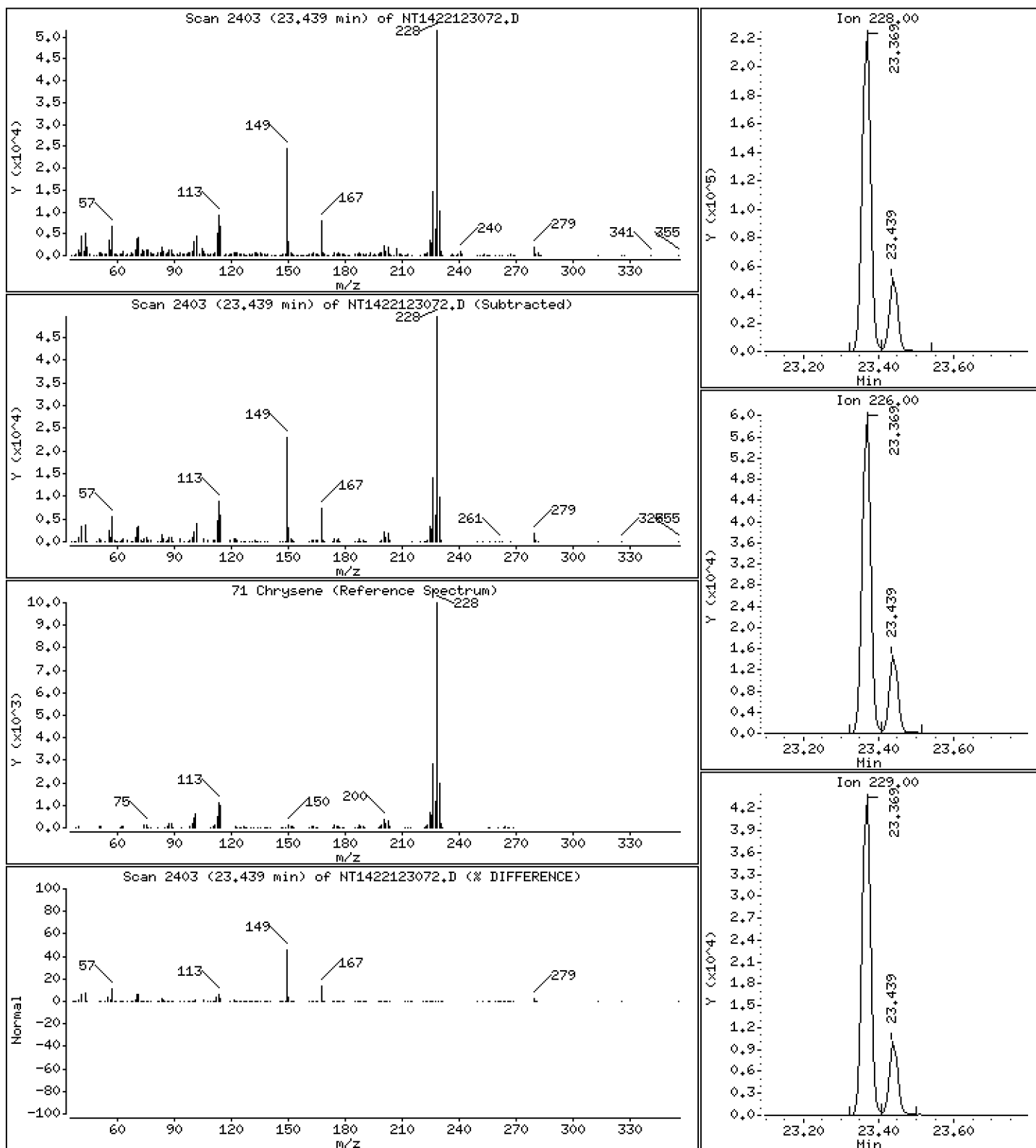
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 1,237 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

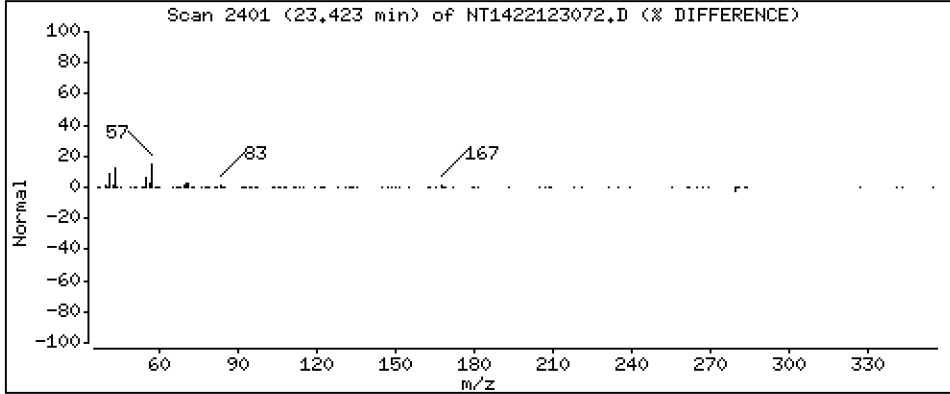
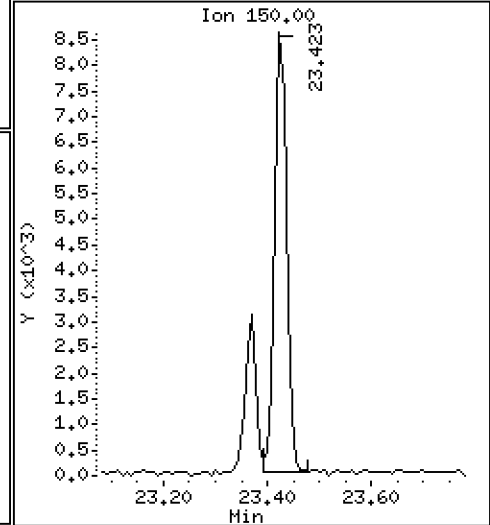
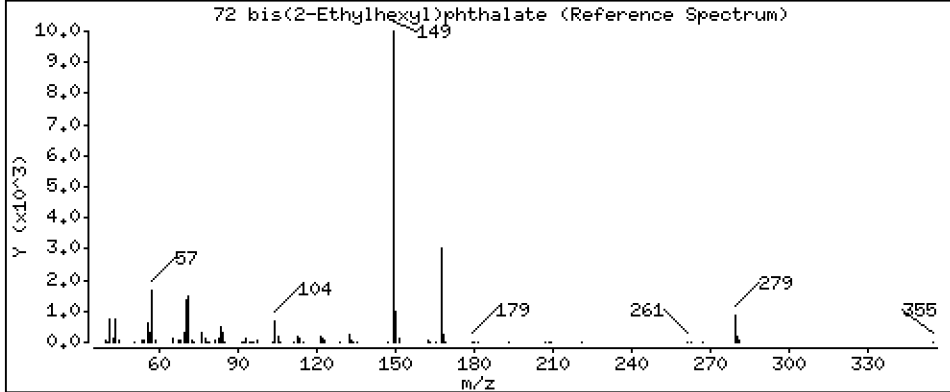
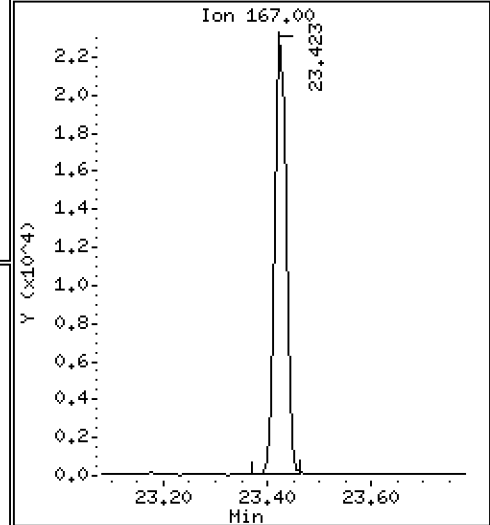
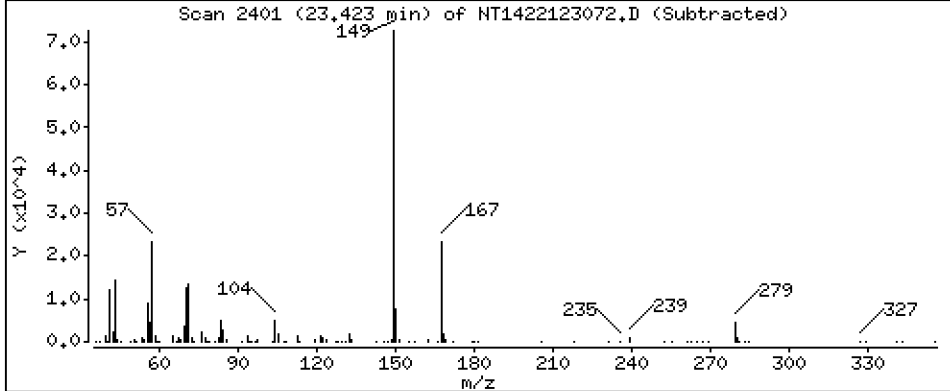
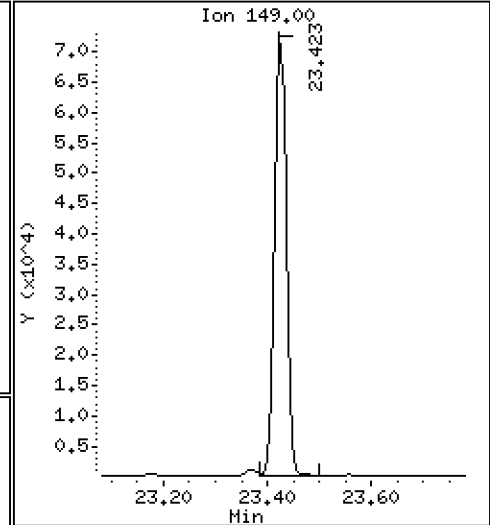
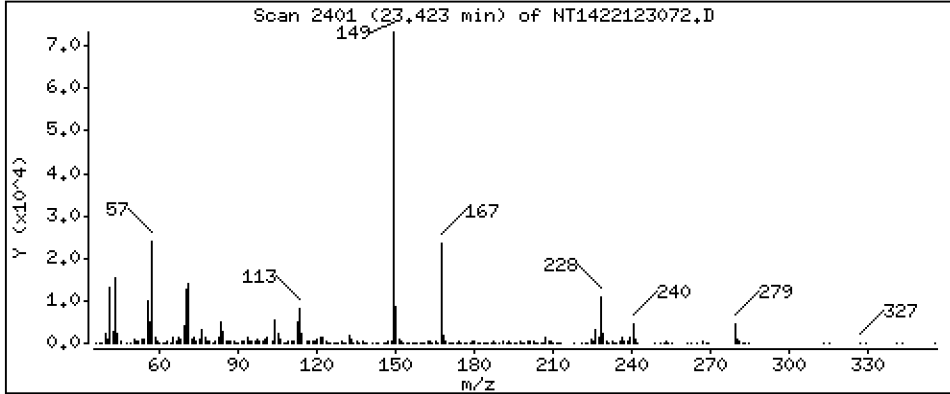
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 2,671 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

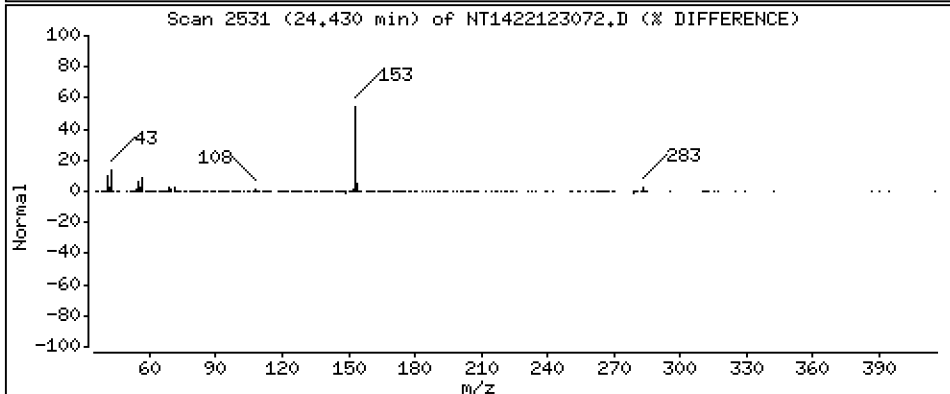
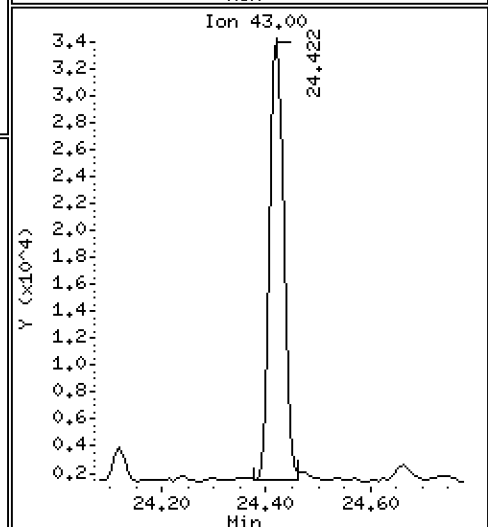
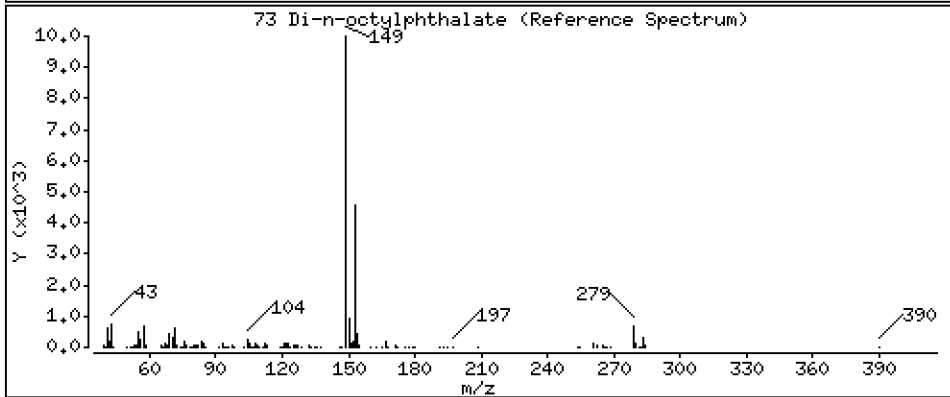
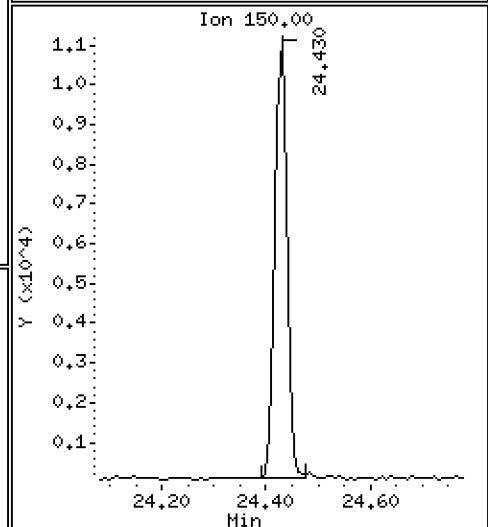
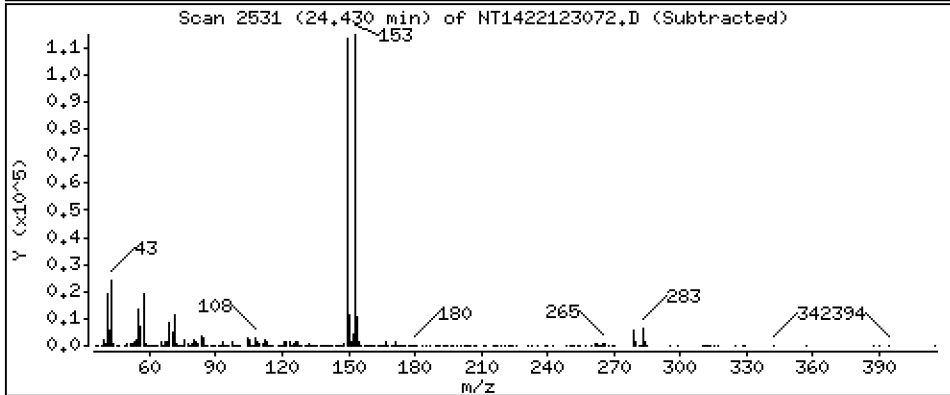
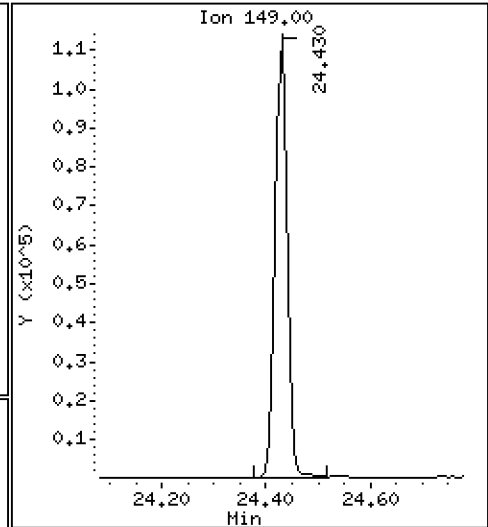
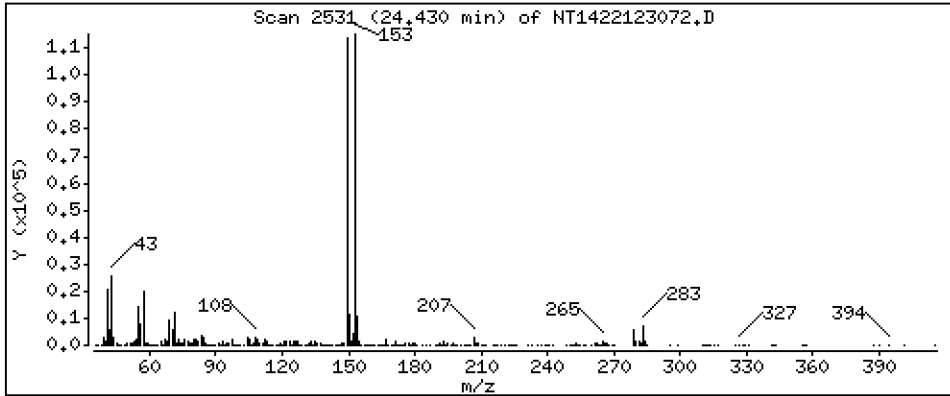
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 2,012 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

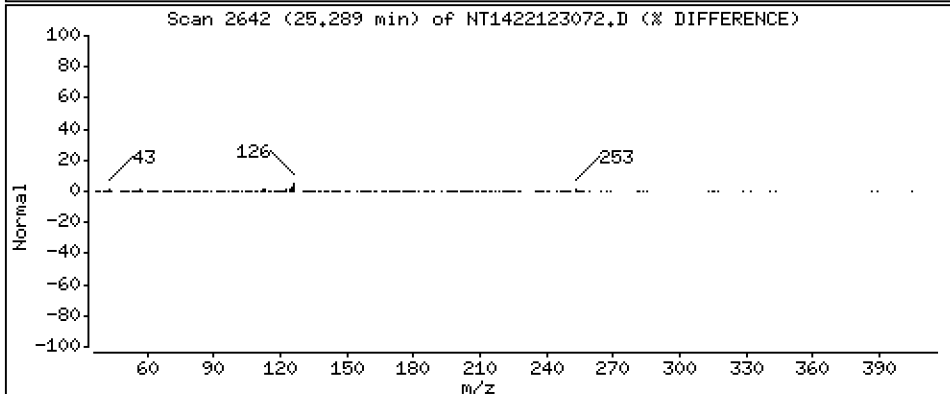
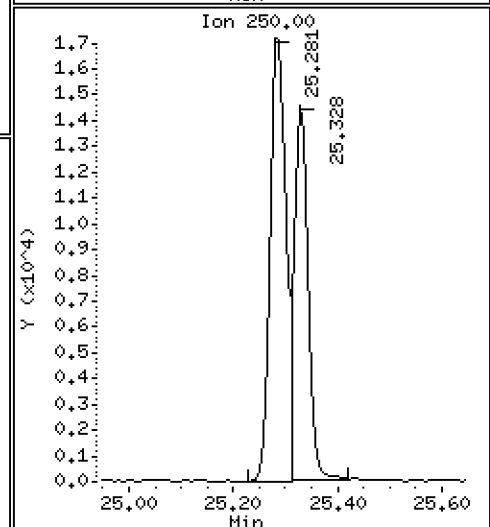
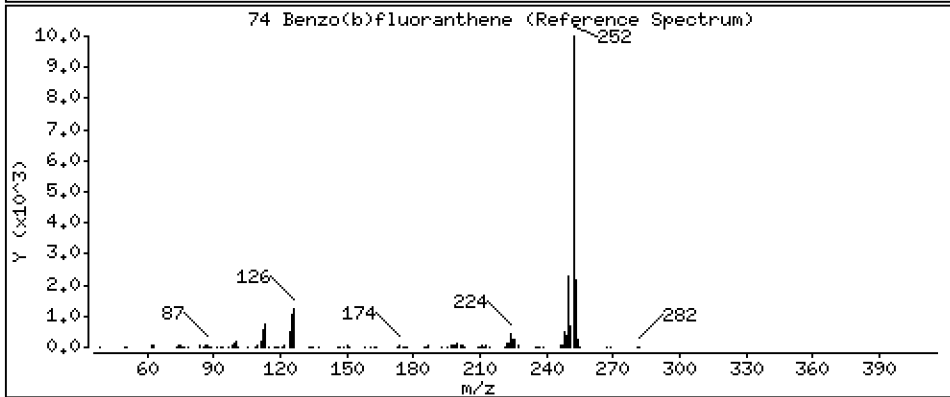
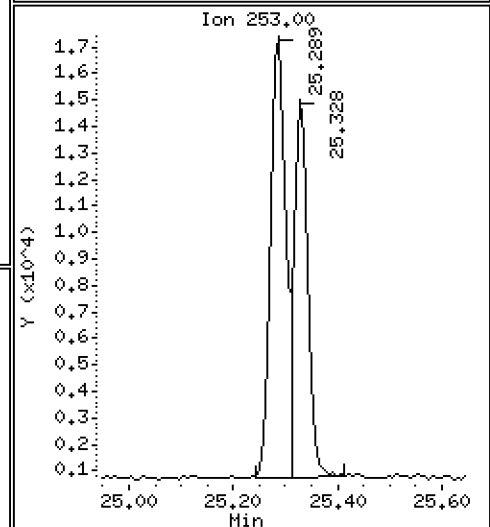
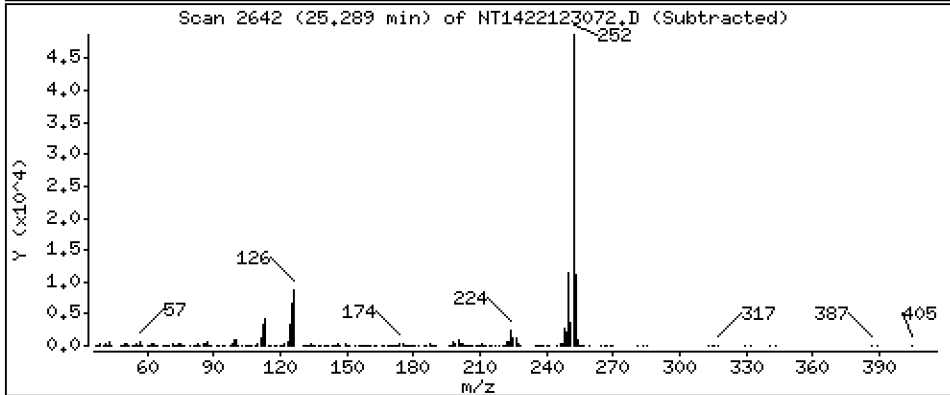
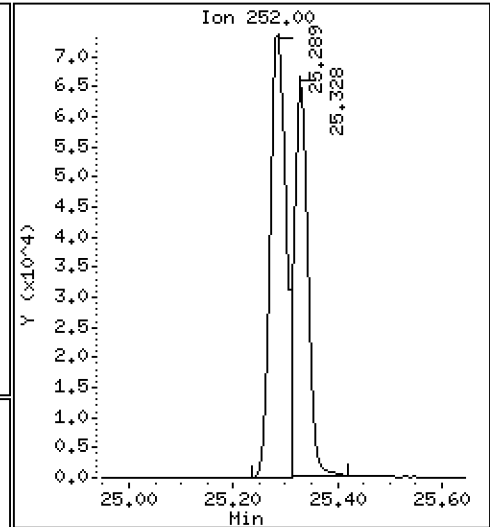
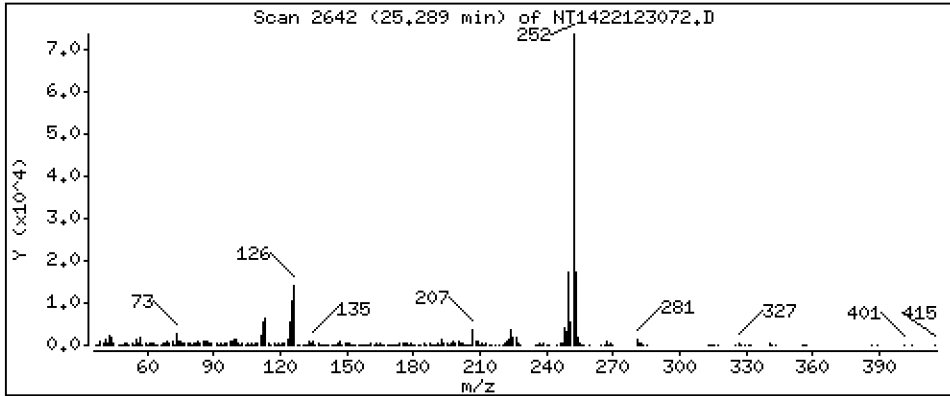
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 2,798 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

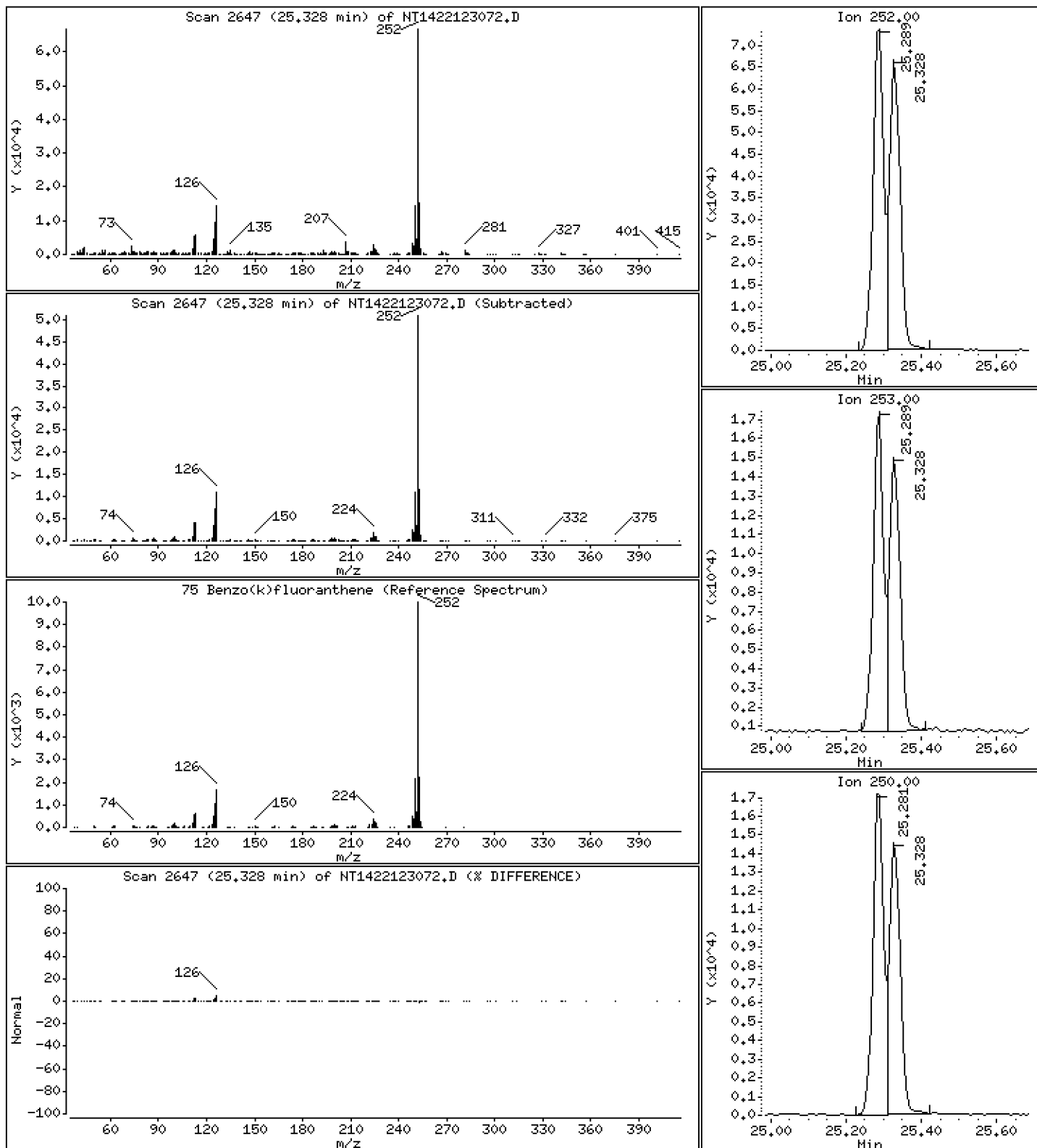
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 2,215 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

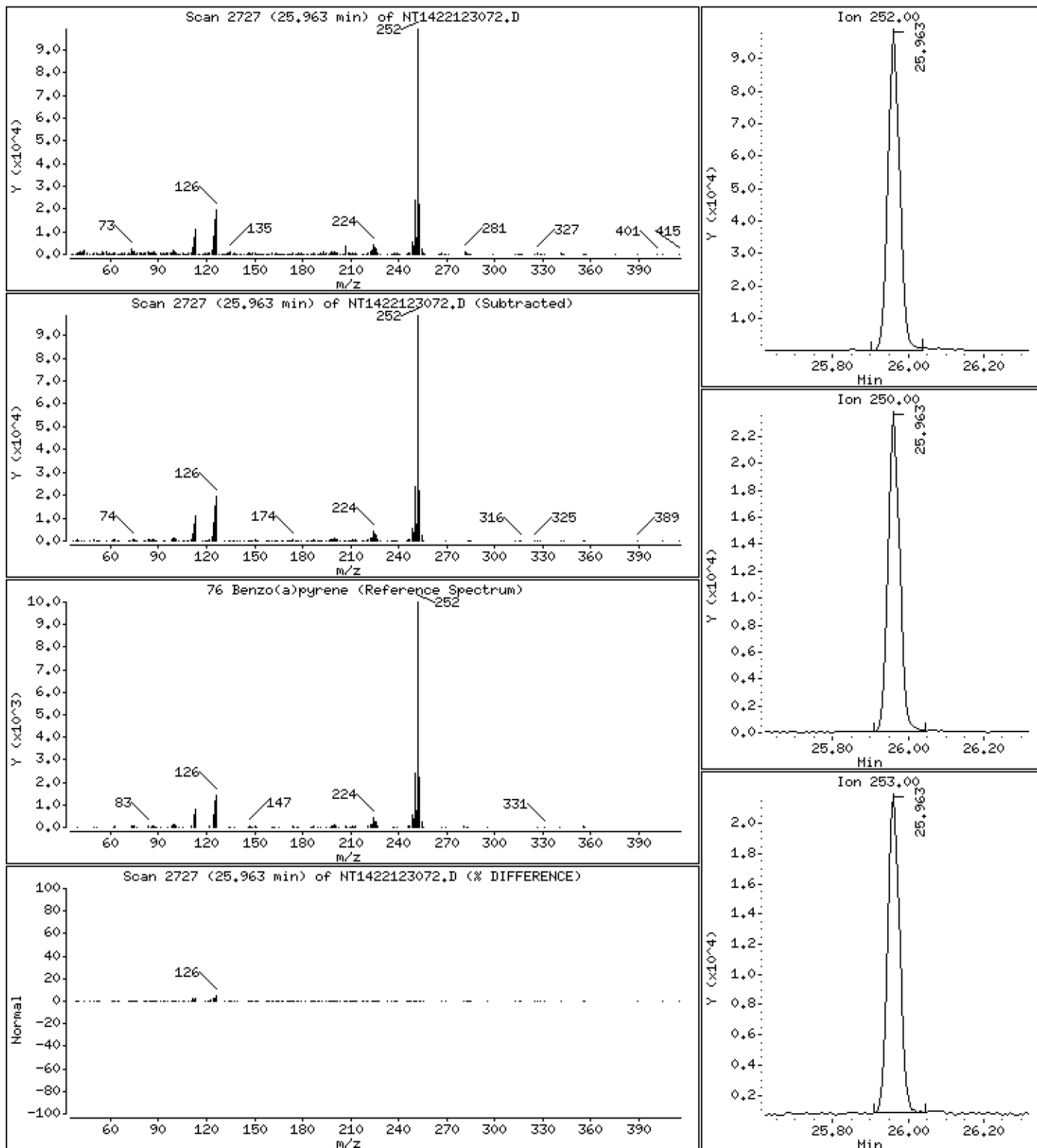
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,447 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

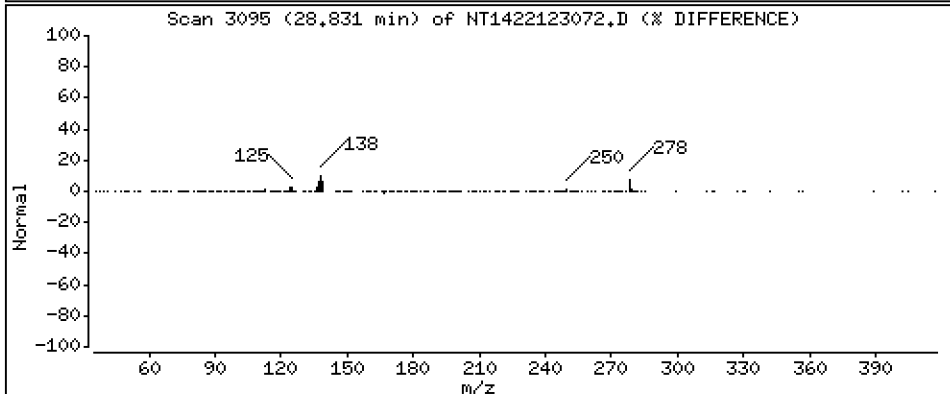
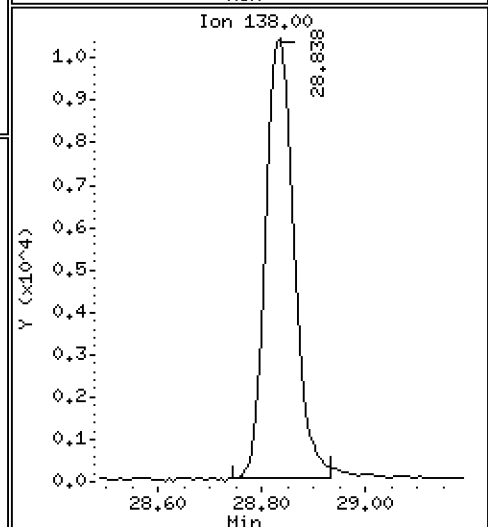
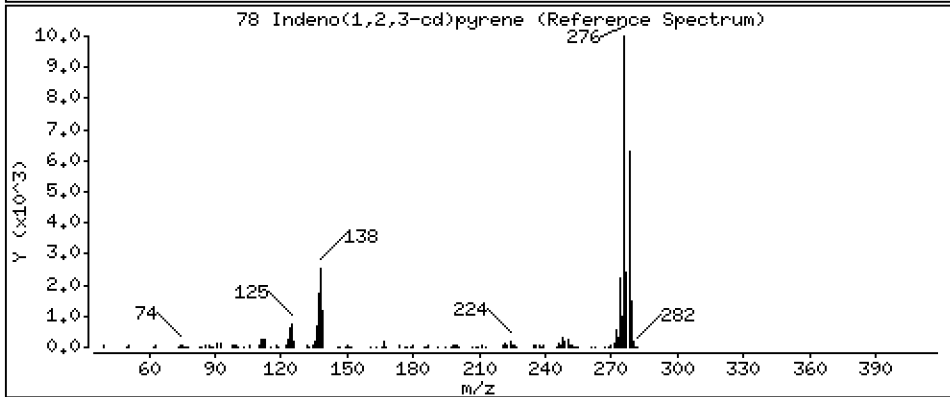
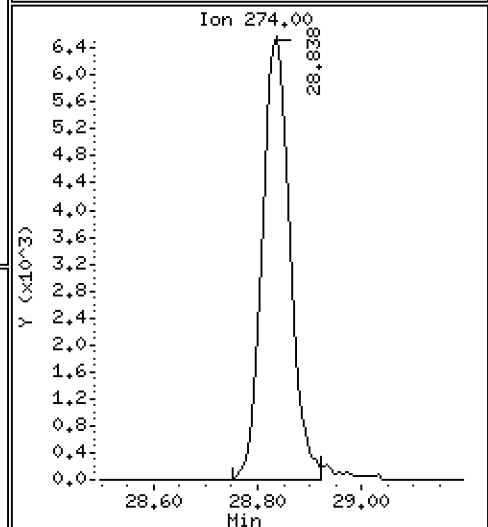
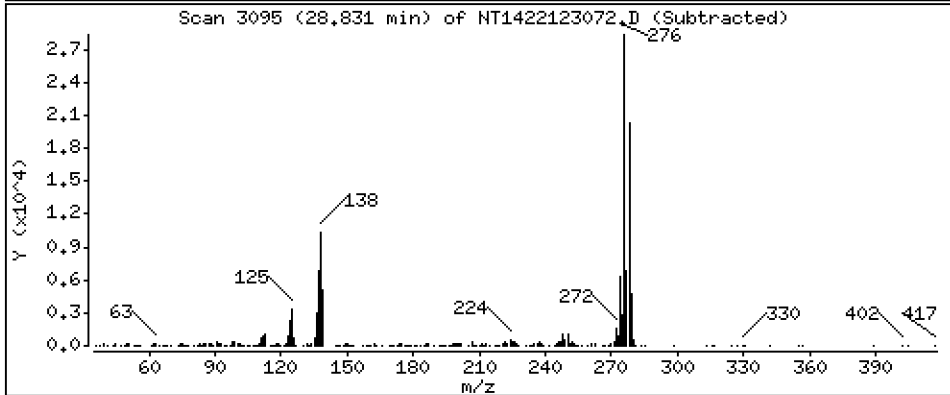
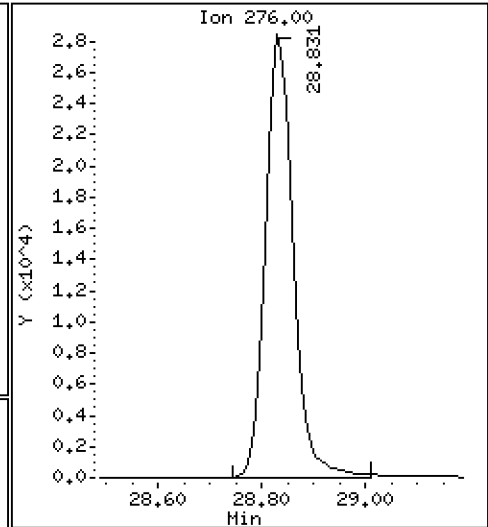
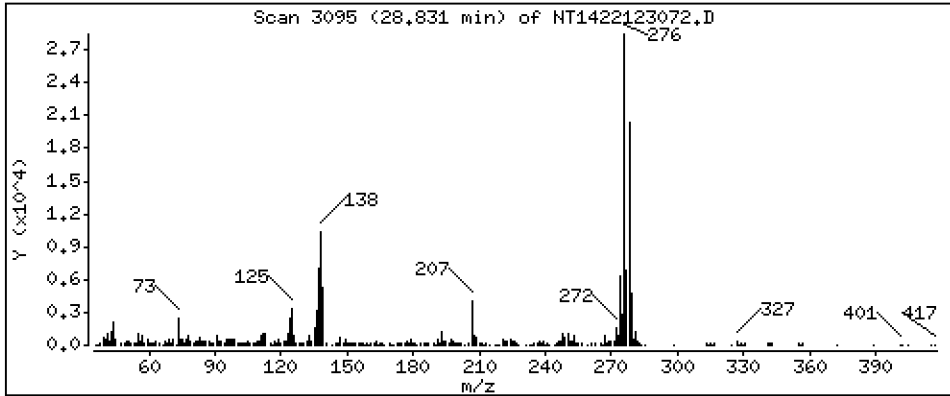
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 1,977 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

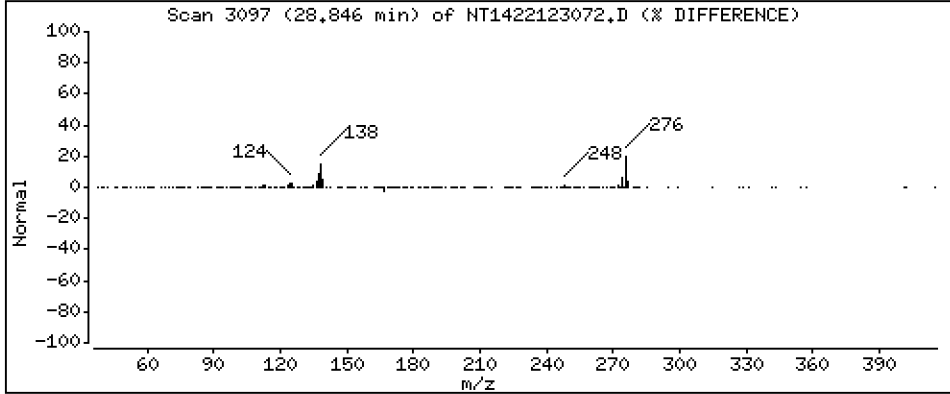
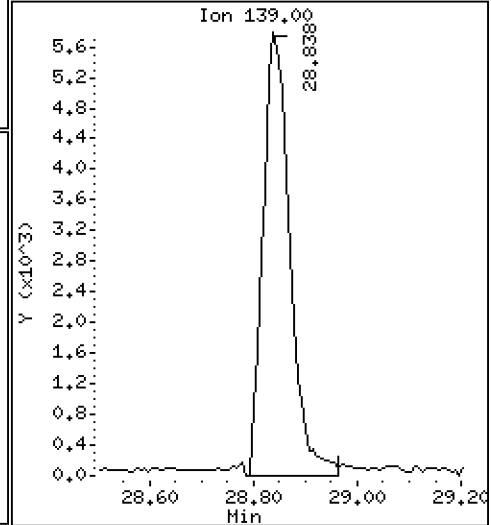
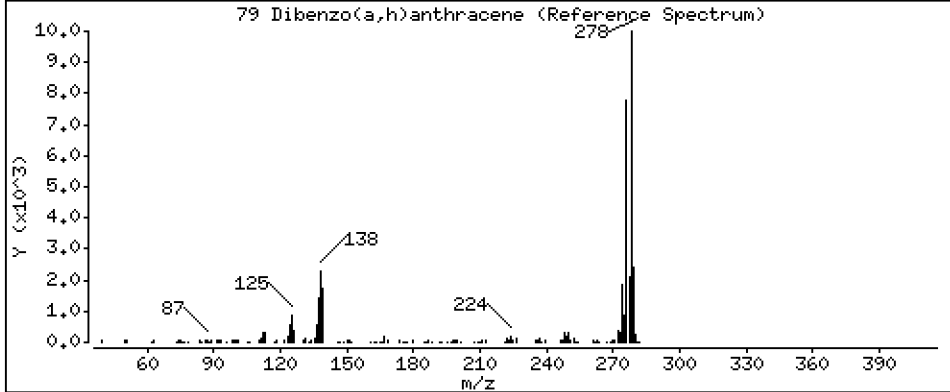
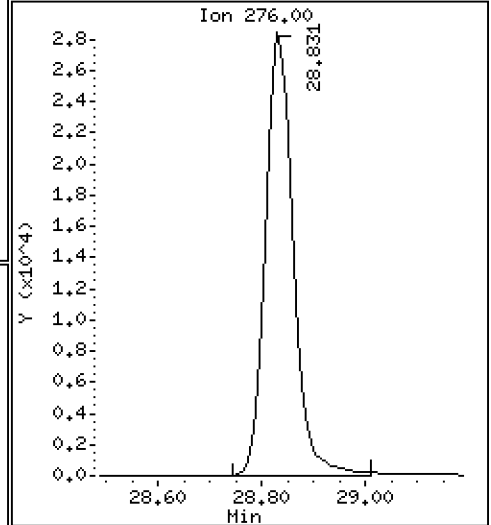
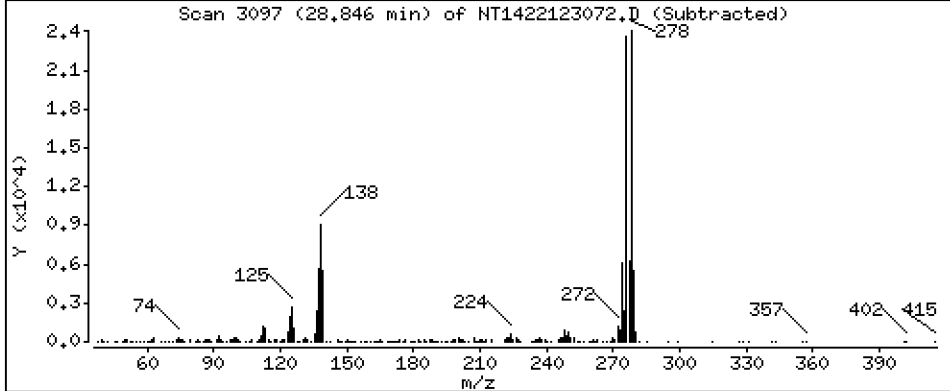
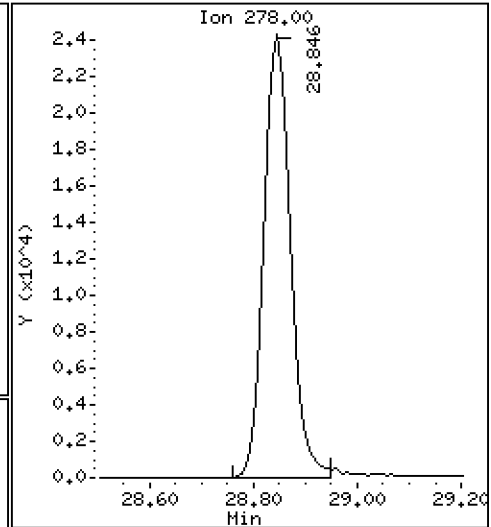
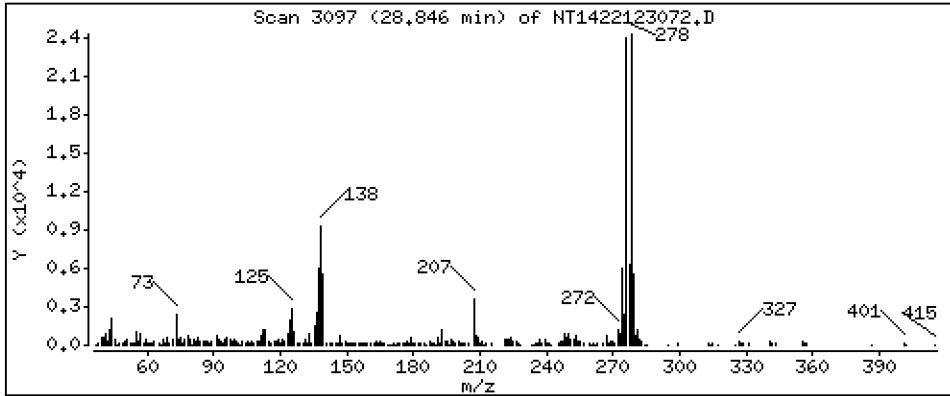
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 1,899 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

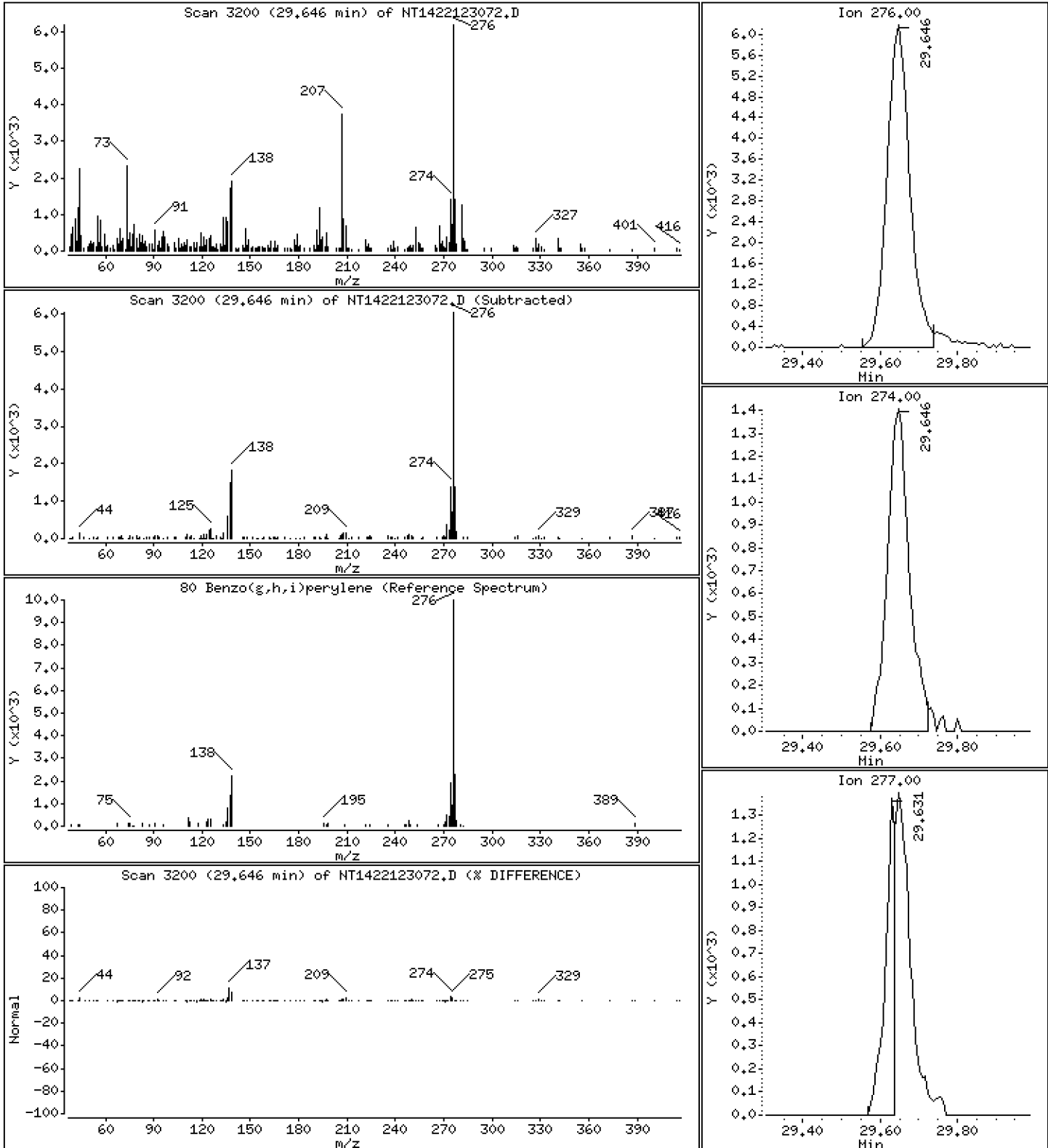
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,5702 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

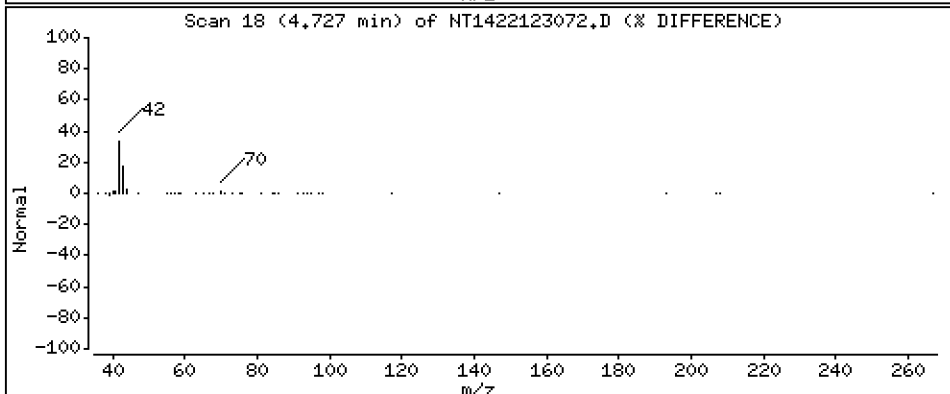
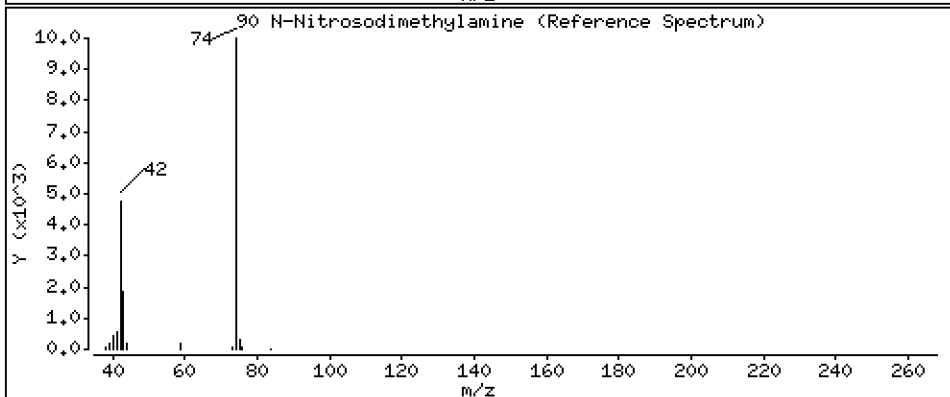
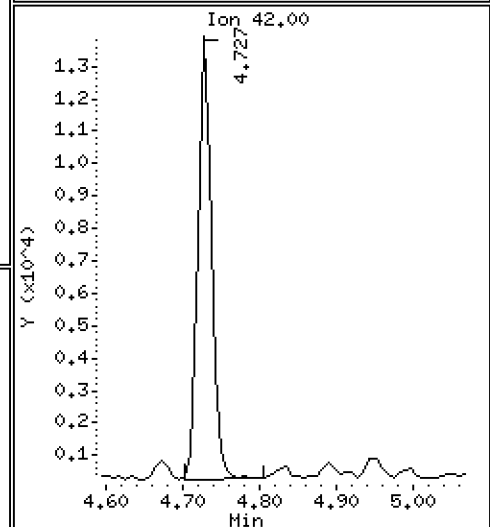
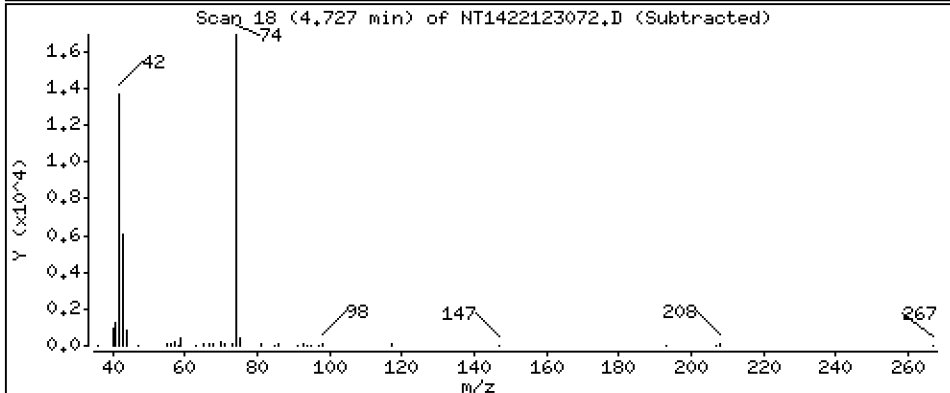
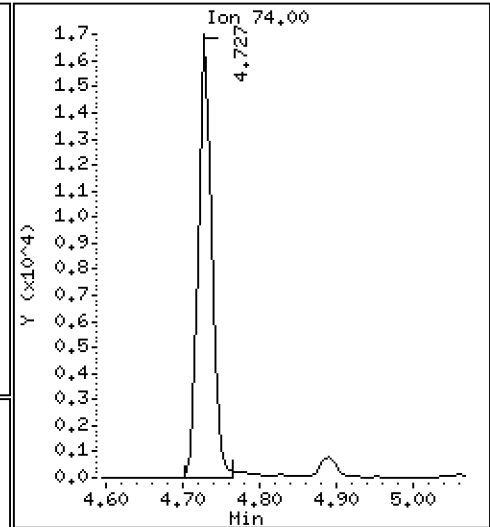
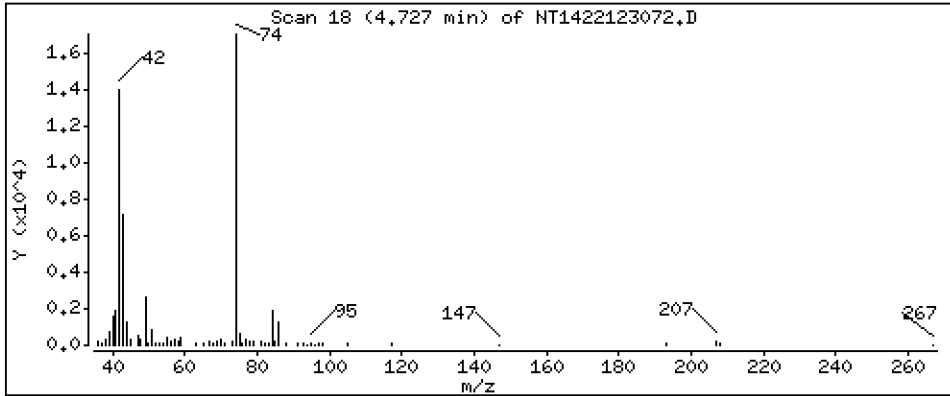
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,086 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

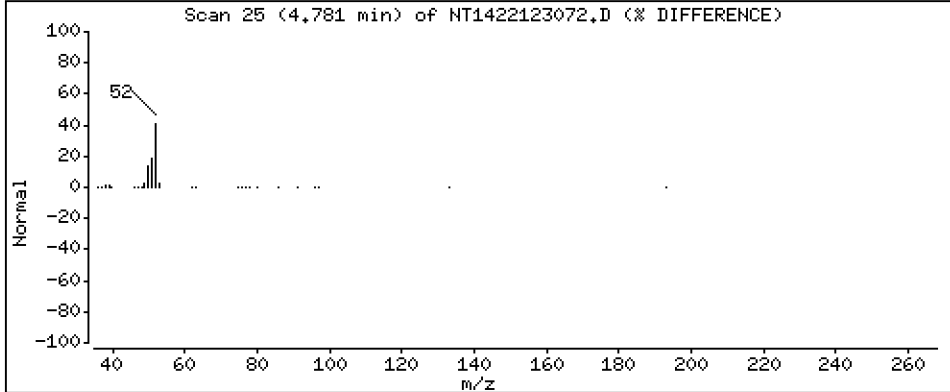
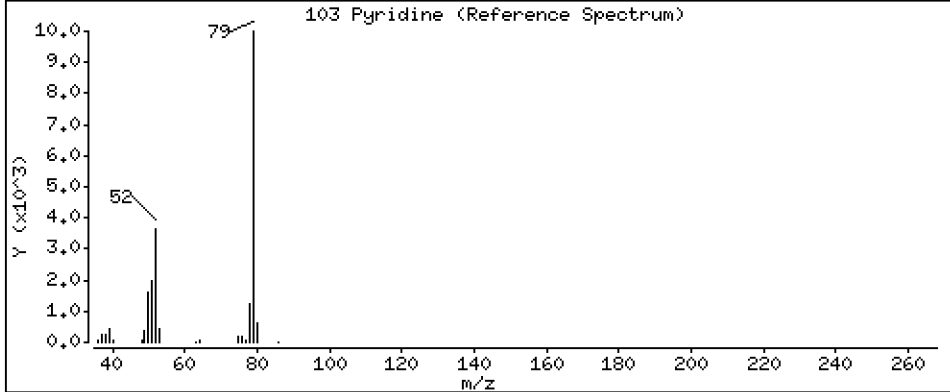
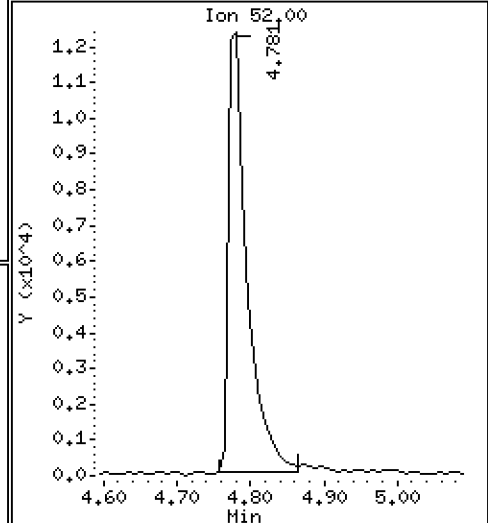
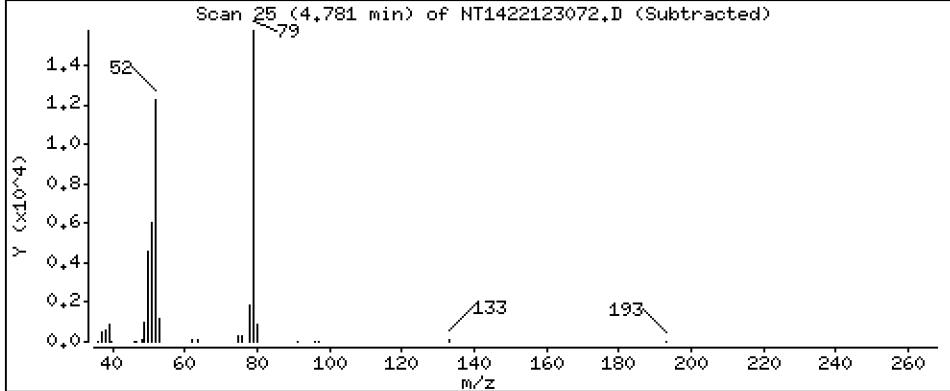
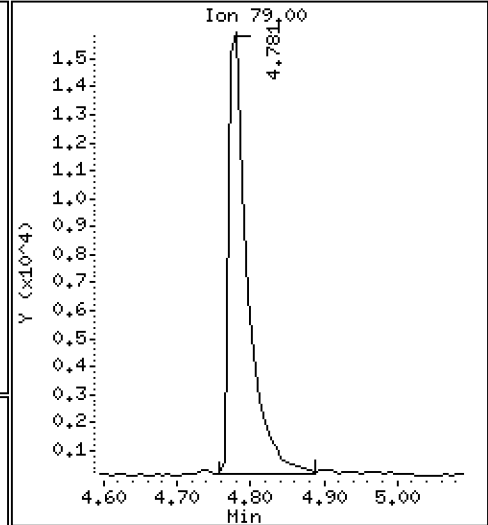
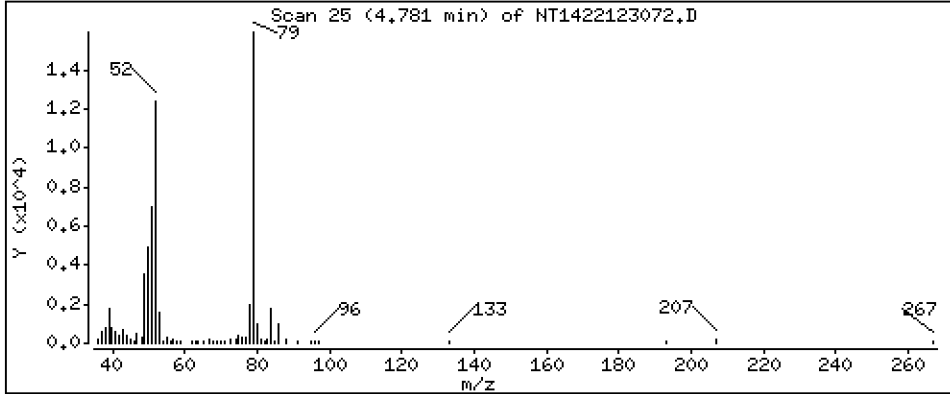
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,4678 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

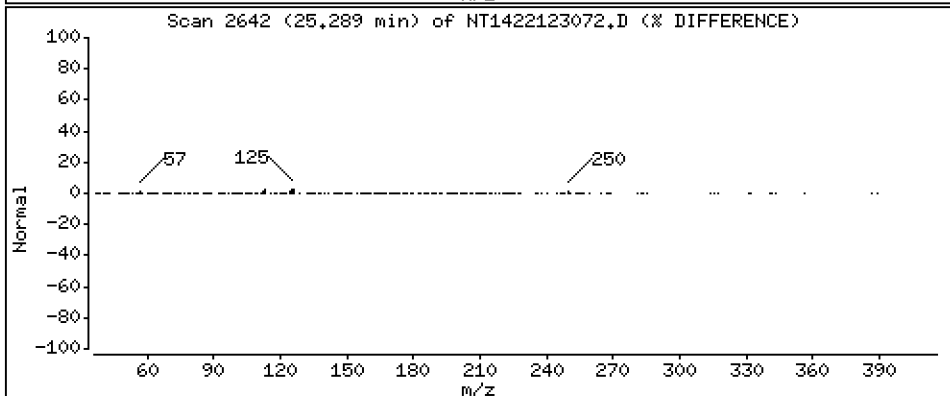
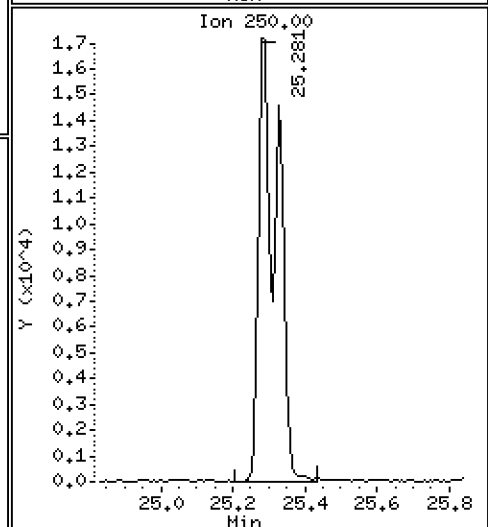
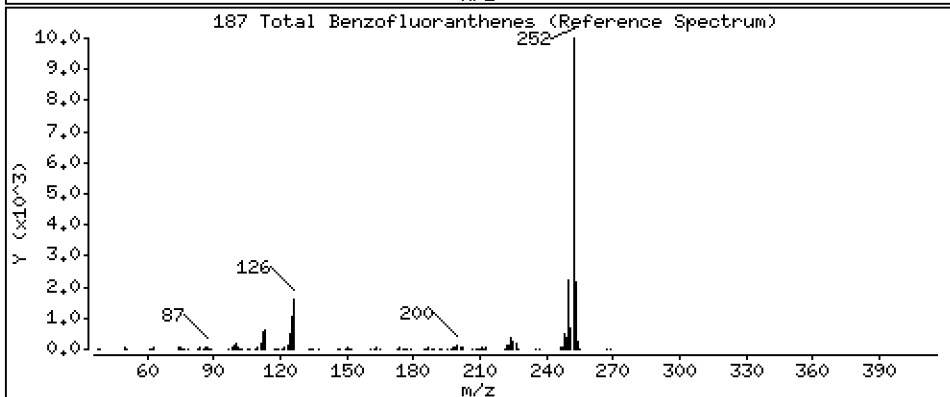
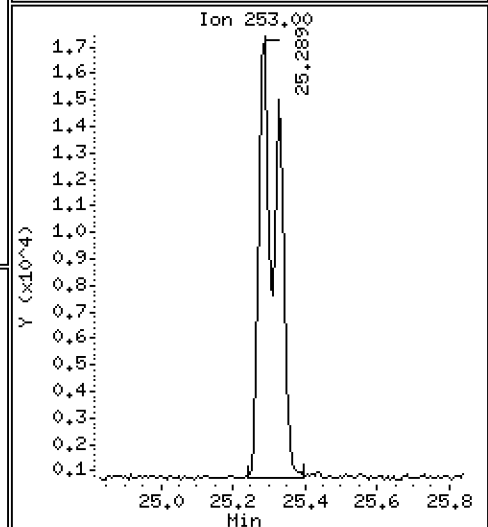
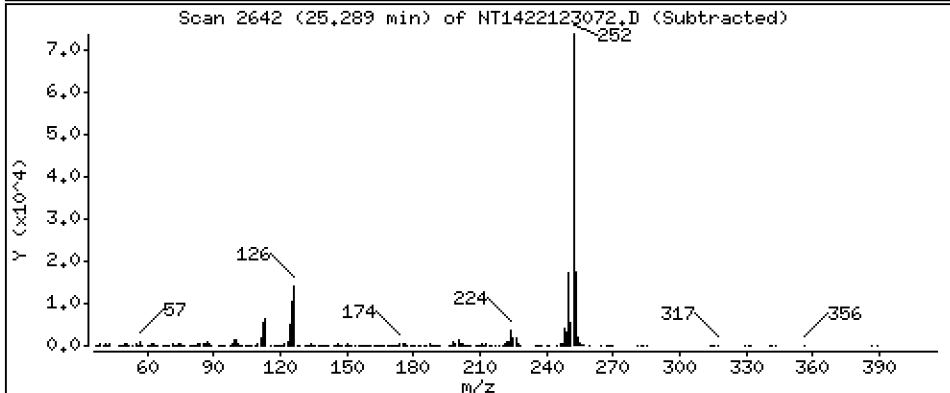
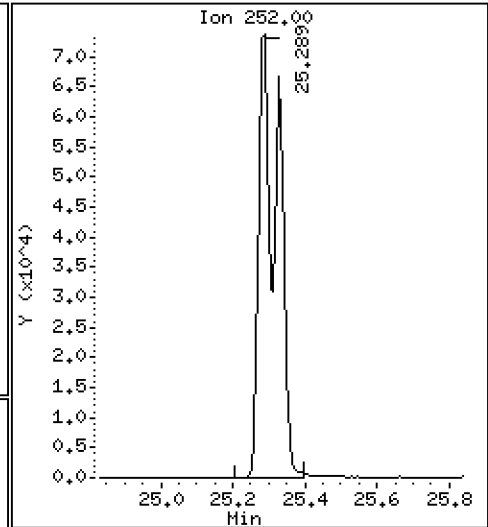
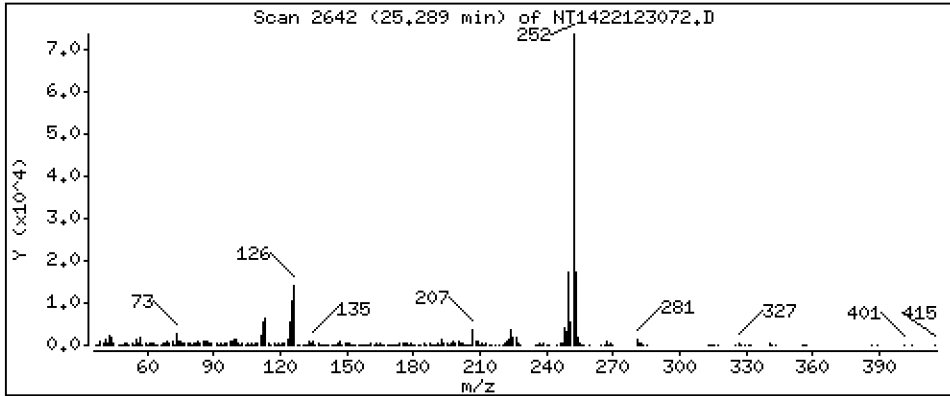
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 4,981 ug/mL



Date : 01-JAN-2023 03:05

Client ID:

Instrument: nt14.i

Sample Info: BKL0193-SRM1

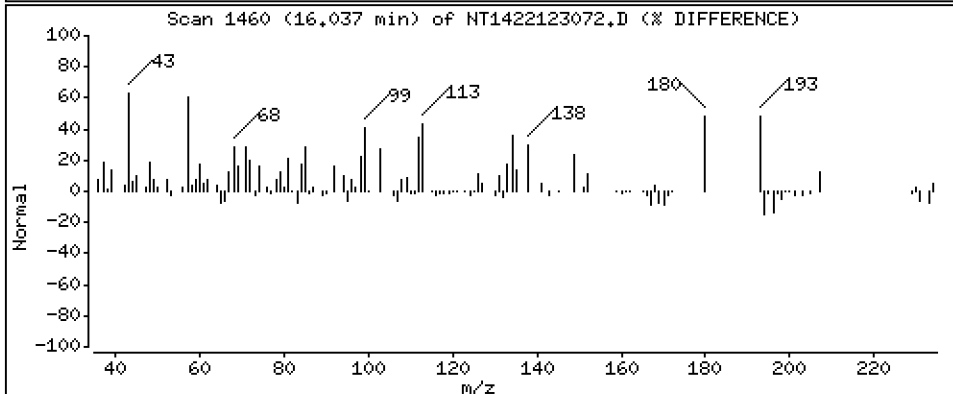
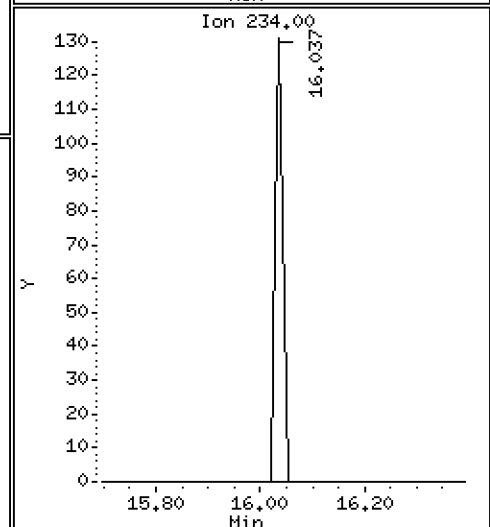
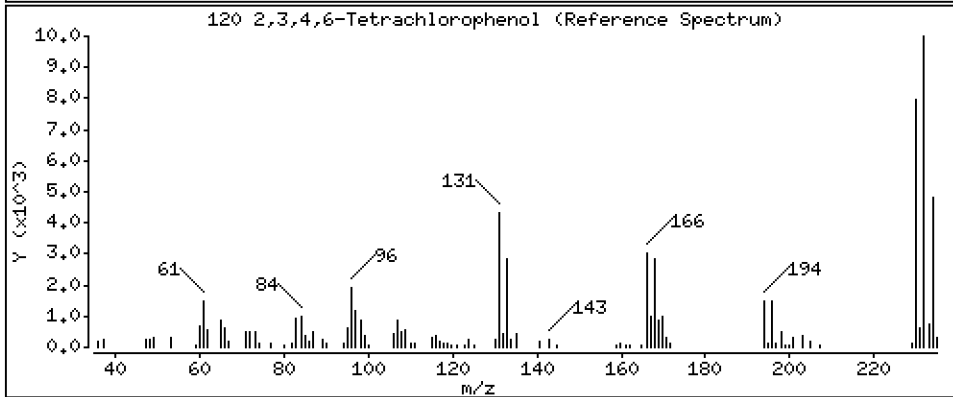
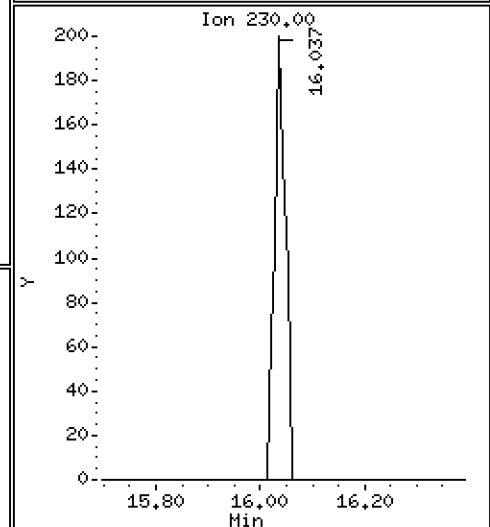
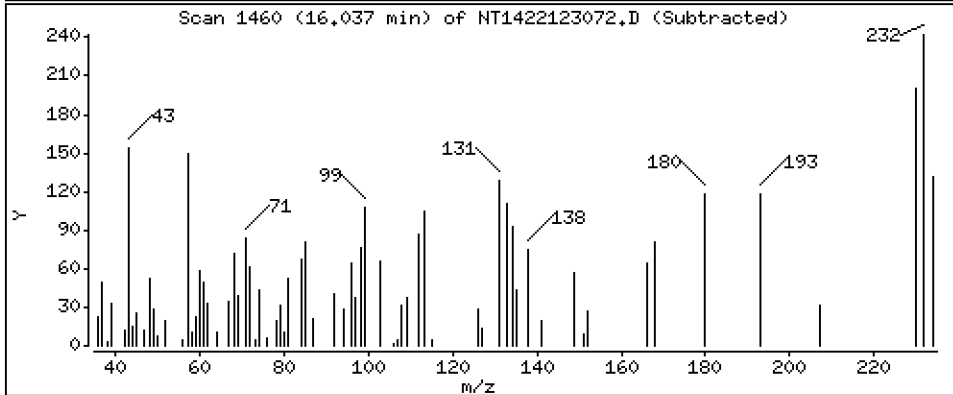
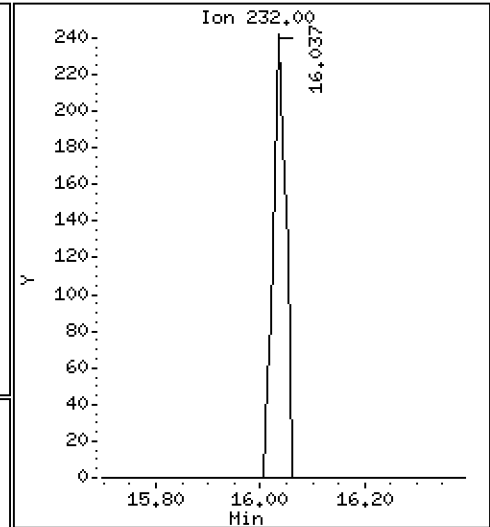
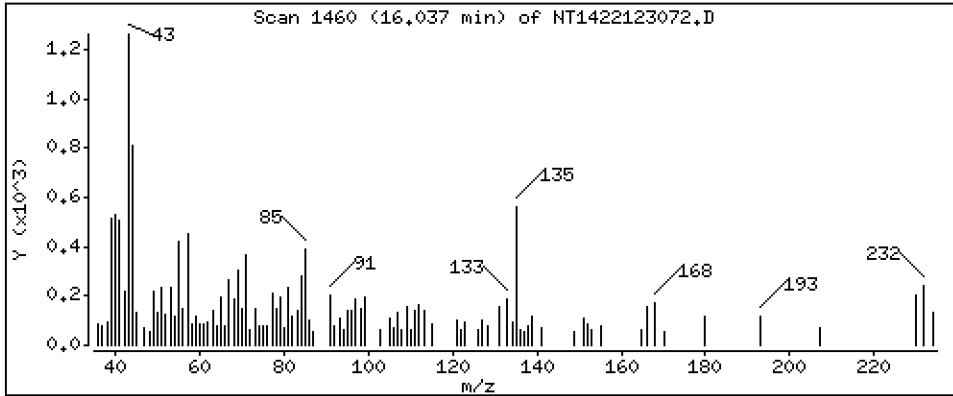
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,03520 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123072.D
 Lab Smp Id: BKL0193-SRM1
 Inj Date : 01-JAN-2023 03:05 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : BKL0193-SRM1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 43
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.919	(0.756)	146252	5.29221	5.292
\$ 2 Phenol-d5	99		8.511	8.519	(0.929)	191239	5.59960	5.600
3 Phenol	94		8.534	8.542	(0.932)	77911	2.00767	2.008
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	164649	5.74039	5.740
4 Bis(2-Chloroethyl)ether	93		Compound Not Detected.					
6 2-Chlorophenol	128		8.820	8.827	(0.963)	33897	1.07608	1.076
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	24573	0.73566	0.7357
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	86260	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	68106	3.47411	3.474
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		Compound Not Detected.					
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	18528	2.05921	2.059
13 2-Methylphenol	108		9.657	9.665	(1.054)	120502	4.27332	4.273
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		Compound Not Detected.					
15 4-Methylphenol	108		9.929	9.936	(1.084)	154510	5.19409	5.194
\$ 18 Nitrobenzene-d5	82		10.255	10.262	(0.879)	106881	4.01705	4.017
19 Nitrobenzene	77		10.294	10.301	(0.882)	63588	2.40643	2.406
20 Isophorone	82		10.744	10.751	(0.921)	59812	1.77601	1.776
21 2-Nitrophenol	139		10.930	10.937	(0.937)	74901	4.46451	4.465
22 2,4-Dimethylphenol	107		10.984	10.992	(0.942)	119548	4.33480	4.335
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		11.085	11.209	(0.950)	5051	0.30080	0.3008 (M)
25 2,4-Dichlorophenol	162		11.395	11.395	(0.977)	137030	5.89450	5.894
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	23292	0.92662	0.9266
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	315083	4.00000	
28 Naphthalene	128		11.704	11.712	(1.003)	245216	3.16242	3.162
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	16920	1.35668	1.357
31 4-Chloro-3-methylphenol	107		12.810	12.810	(1.098)	34497	1.57249	1.572
32 2-Methylnaphthalene	142		Compound Not Detected.					
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.739	13.739	(0.898)	21309	1.59628	1.596	
35 2,4,5-Trichlorophenol	196		13.816	13.816	(0.903)	37742	2.44972	2.450	
§ 36 2-Fluorobiphenyl	172		13.894	13.901	(0.908)	217529	4.04528	4.045	
37 2-Chloronaphthalene	162		14.110	14.118	(0.922)	75909	1.65936	1.659	
38 2-Nitroaniline	65		Compound Not Detected.						
39 Dimethylphthalate	163		14.791	14.799	(0.967)	182803	4.05294	4.053	
40 Acenaphthylene	152		14.985	14.993	(0.979)	109894	1.57548	1.575	
41 2,6-Dinitrotoluene	165		Compound Not Detected.						
* 42 Acenaphthene-d10	164		15.302	15.310	(1.000)	159935	4.00000		
43 3-Nitroaniline	138		Compound Not Detected.						
44 Acenaphthene	153		15.372	15.371	(1.005)	201221	4.65110	4.651	
45 2,4-Dinitrophenol	184		15.434	15.441	(1.009)	5693	0.65766	0.6577	
46 Dibenzofuran	168		15.696	15.704	(1.026)	324597	5.00323	5.003	
47 4-Nitrophenol	109		15.557	15.557	(1.017)	31925	5.32951	5.330	
48 2,4-Dinitrotoluene	165		15.743	15.750	(1.029)	39823	2.85147	2.851	
50 Diethylphthalate	149		16.253	16.268	(1.062)	16179	0.26391	0.2639	
49 Fluorene	166		16.415	16.423	(1.073)	230578	3.34087	3.341	
51 4-Chlorophenyl-phenylether	204		16.400	16.407	(1.072)	63060	1.86626	1.866	
52 4-Nitroaniline	138		Compound Not Detected.						
53 4,6-Dinitro-2-methylphenol	198		16.585	16.600	(0.904)	36335	3.18829	3.188	
54 N-Nitrosodiphenylamine	169		16.647	16.654	(0.907)	153788	3.32165	3.322	
§ 55 2,4,6-Tribromophenol	330		16.947	16.955	(1.108)	46238	5.97889	5.979	
56 4-Bromophenyl-phenylether	248		17.410	17.410	(0.949)	96413	5.49940	5.499	
57 Hexachlorobenzene	284		Compound Not Detected.						
58 Pentachlorophenol	266		18.091	18.090	(0.986)	8381	1.00152	1.002	
* 59 Phenanthrene-d10	188		18.354	18.361	(1.000)	269812	4.00000		
60 Phenanthrene	178		18.400	18.408	(1.003)	279717	3.97619	3.976	
61 Anthracene	178		18.493	18.500	(1.008)	132709	1.97608	1.976	
62 Carbazole	167		18.818	18.825	(1.025)	305658	4.70800	4.708	
63 Di-n-butylphthalate	149		19.607	19.614	(1.068)	106578	1.43956	1.440	
64 Fluoranthene	202		20.783	20.791	(0.888)	144637	2.13130	2.131	
65 Pyrene	202		21.209	21.216	(0.906)	189757	2.65943	2.659	
§ 66 Terphenyl-d14	244		21.487	21.495	(0.918)	224011	4.42768	4.428	
67 Butylbenzylphthalate	149		22.401	22.408	(0.957)	94908	3.48450	3.484	
68 Benzo(a)anthracene	228		23.369	23.376	(0.999)	329055	5.15380	5.154	
* 69 Chrysene-d12	240		23.400	23.399	(1.000)	210765	4.00000		
70 3,3'-Dichlorobenzidine	252		Compound Not Detected.						
71 Chrysene	228		23.438	23.446	(1.002)	74616	1.23723	1.237	
72 bis(2-Ethylhexyl)phthalate	149		23.423	23.430	(0.959)	105359	2.67143	2.671	
* 134 Di-n-octylphthalate-d4	153		24.414	24.421	(1.000)	355122	4.00000		
73 Di-n-octylphthalate	149		24.429	24.429	(1.001)	171475	2.01157	2.012	
74 Benzo(b)fluoranthene	252		25.288	25.296	(0.970)	157504	2.79804	2.798	
75 Benzo(k)fluoranthene	252		25.327	25.335	(0.971)	126887	2.21472	2.215	
76 Benzo(a)pyrene	252		25.962	25.970	(0.996)	208090	4.44689	4.447	
* 77 Perylene-d12	264		26.078	26.086	(1.000)	179115	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.830	28.838	(1.106)	105160	1.97688	1.977	
79 Dibenzo(a,h)anthracene	278		28.846	28.853	(1.106)	85855	1.89929	1.899	
80 Benzo(g,h,i)perylene	276		29.646	29.653	(1.137)	25411	0.57023	0.5702	
90 N-Nitrosodimethylamine	74		4.726	4.718	(0.516)	20666	1.08582	1.086	
91 Aniline	93		Compound Not Detected.						
93 Benzidine	184		Compound Not Detected.						
103 Pyridine	79		4.780	4.741	(0.522)	28292	0.46781	0.4678	
105 1-methylnaphthalene	142		Compound Not Detected.						
111 Azobenzene (1,2-DP-Hydrazine)	77		Compound Not Detected.						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.970)	271096	4.98145	4.981
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	396	0.03520	0.03520

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123072.D Calibration Time: 23:30
 Lab Smp Id: BKL0193-SRM1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	86260	-37.83
27 Naphthalene-d8	501723	250862	1003446	315083	-37.20
42 Acenaphthene-d10	275234	137617	550468	159935	-41.89
59 Phenanthrene-d10	440085	220043	880170	269812	-38.69
69 Chrysene-d12	384795	192398	769590	210765	-45.23
134 Di-n-octylphthala	674530	337265	1349060	355122	-47.35
77 Perylene-d12	336665	168333	673330	179115	-46.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.06
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123072.D

Lab ID: BKL0193-SRM1
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 03:05

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.960	-0.0100	Benzoic acid

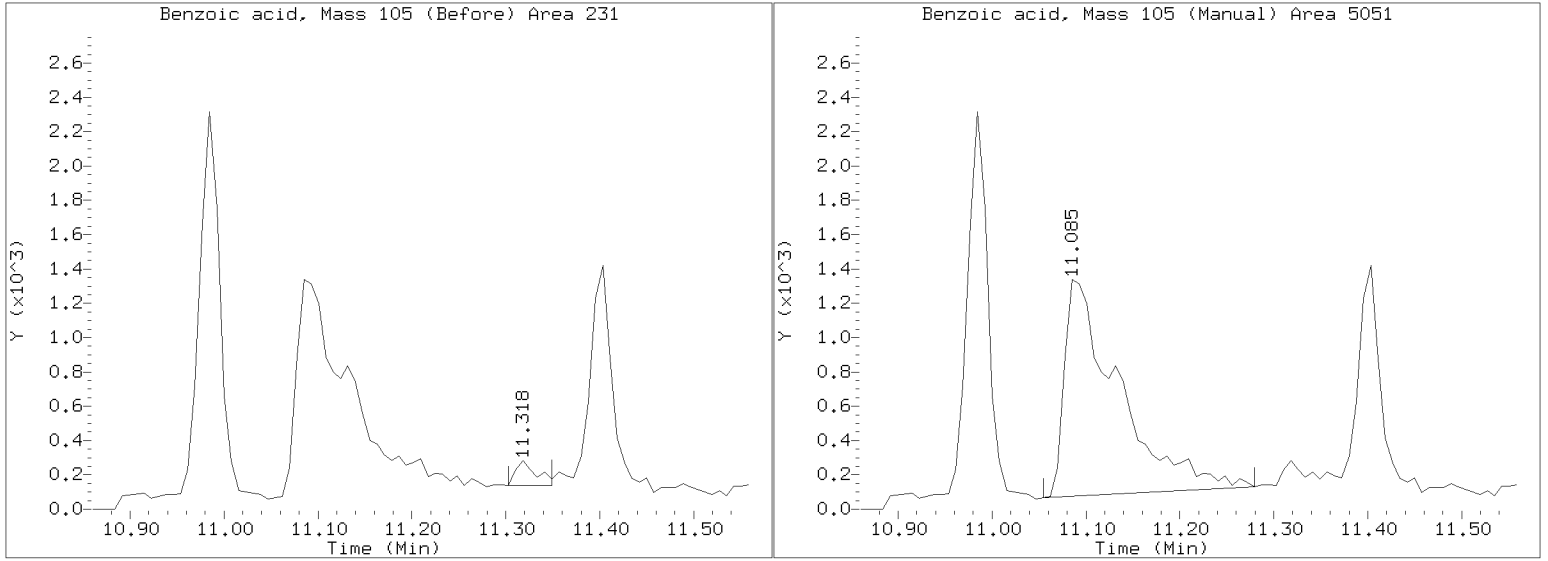
RRT check based on Ccal File: NT1422123066.D

On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123072.D
Injection Date: 01-JAN-2023 03:05
Lab ID: BKL0193-SRM1 Client ID:
Report Date: 01/04/2023 14:24





**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Lab File ID:	<u>NT1422123001.D</u>	Injection Date:	<u>12/30/22</u>
Instrument ID:	<u>NT14</u>	Injection Time:	<u>07:53</u>
Sequence:	<u>SKL0355</u>	Lab Sample ID:	<u>SKL0355-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Lab File ID:	<u>NT1422123001.D</u>	Injection Date:	<u>12/30/22</u>
Instrument ID:	<u>NT14</u>	Injection Time:	<u>07:53</u>
Sequence:	<u>SKL0355</u>	Lab Sample ID:	<u>SKL0355-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKL0355-TUN1	NT1422123001.D	12/30/2022	7:53
Cal Standard	SKL0355-CAL5	NT1422123002.D	12/30/2022	8:06
Cal Standard	SKL0355-CAL7	NT1422123003.D	12/30/2022	8:42
Cal Standard	SKL0355-CAL1	NT1422123004.D	12/30/2022	9:18
Cal Standard	SKL0355-CAL6	NT1422123005.D	12/30/2022	9:54
Cal Standard	SKL0355-CAL2	NT1422123006.D	12/30/2022	10:30
Cal Standard	SKL0355-CAL4	NT1422123007.D	12/30/2022	11:07
Cal Standard	SKL0355-CAL3	NT1422123008.D	12/30/2022	11:43
Initial Cal Check	SKL0355-ICV1	NT1422123011.D	12/30/2022	13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	12/30/2022	14:08
Initial Cal Check	SKL0355-ICV2	NT1422123014.D	12/30/2022	15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	12/31/2022	6:20
ZZZZZ	22K0399-08RE1	NT1422123039.D	12/31/2022	6:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	12/31/2022	7:32
ZZZZZ	22K0399-22RE1	NT1422123041.D	12/31/2022	8:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	12/31/2022	8:44
Initial Cal Check	SKL0355-ICV4	NT1422123049.D	12/31/2022	13:17
Low Cal Check	SKL0355-LCV1	NT1422123051.D	12/31/2022	14:29
Low Cal Check	SKL0355-LCV2	NT1422123052.D	12/31/2022	15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	12/31/2022	19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	12/31/2022	20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	12/31/2022	21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	12/31/2022	21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	12/31/2022	22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	12/31/2022	22:54
Initial Cal Check	SKL0355-ICV5	NT1422123066.D	12/31/2022	23:30



**MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E**

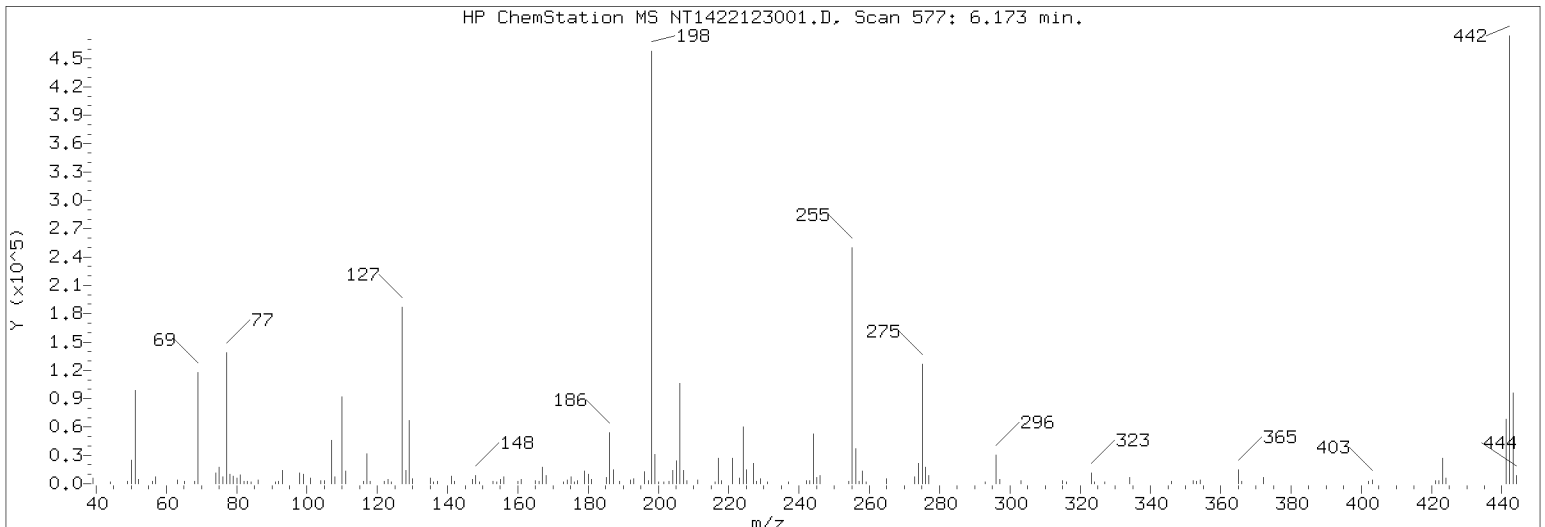
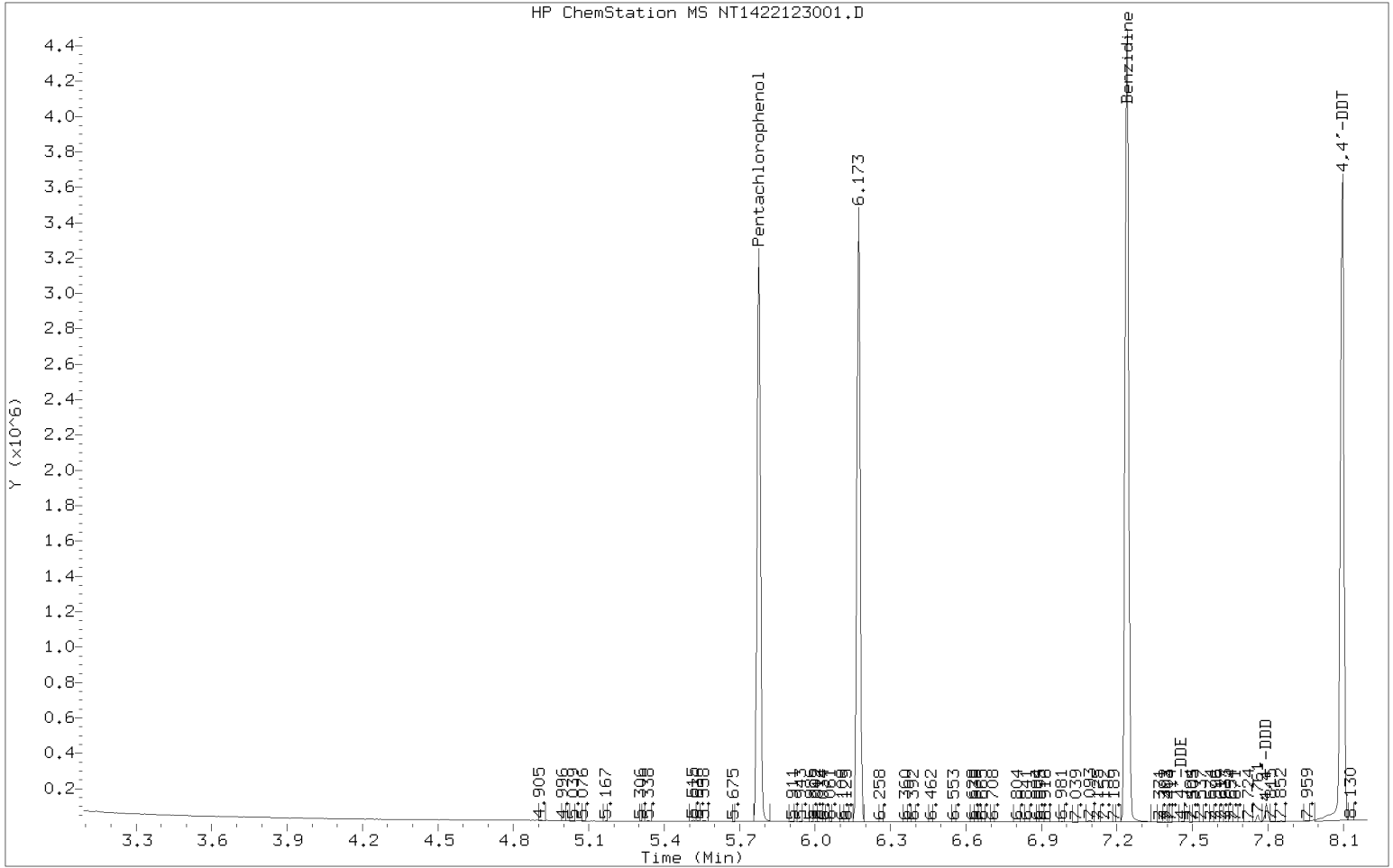
Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Lab File ID:	<u>NT1422123001.D</u>	Injection Date:	<u>12/30/22</u>
Instrument ID:	<u>NT14</u>	Injection Time:	<u>07:53</u>
Sequence:	<u>SKL0355</u>	Lab Sample ID:	<u>SKL0355-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

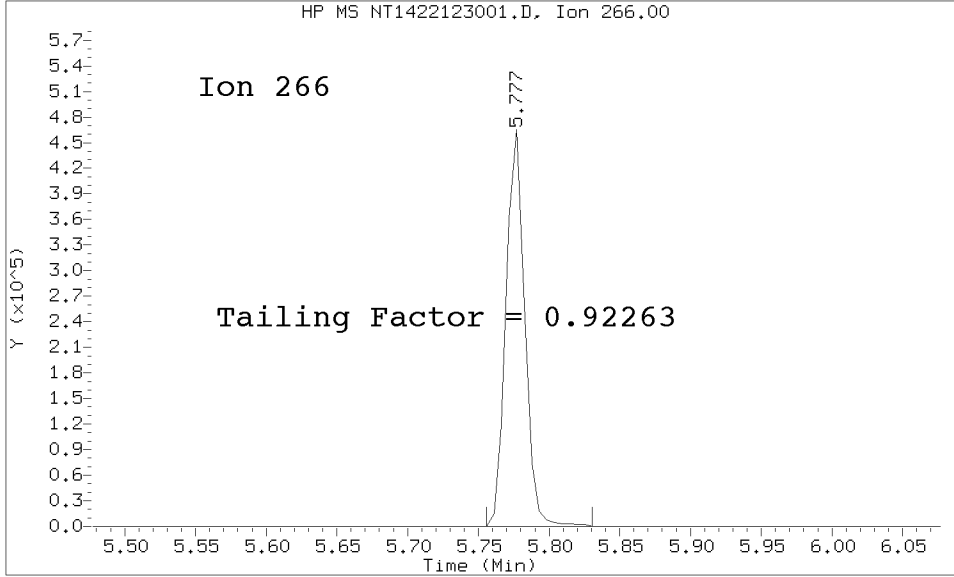
Low Cal Check	SKL0355-LCV3	NT1422123067.D	01/01/2023	0:06
Low Cal Check	SKL0355-LCV4	NT1422123068.D	01/01/2023	0:42
Blank	BKL0193-BLK1	NT1422123069.D	01/01/2023	1:18
LCS	BKL0193-BS1	NT1422123070.D	01/01/2023	1:53
LCS Dup	BKL0193-BSD1	NT1422123071.D	01/01/2023	2:29
Reference	BKL0193-SRM1	NT1422123072.D	01/01/2023	3:05
LDW22-SS773	22L0104-01	NT1422123073.D	01/01/2023	3:41
LDW22-SS774	22L0104-02	NT1422123074.D	01/01/2023	4:17
ZZZZZ	22L0136-01	NT1422123075.D	01/01/2023	4:53
ZZZZZ	22L0136-08	NT1422123076.D	01/01/2023	5:29
ZZZZZ	22L0136-09	NT1422123077.D	01/01/2023	6:05
ZZZZZ	22L0136-10	NT1422123080.D	01/01/2023	7:53
ZZZZZ	22L0136-11	NT1422123081.D	01/01/2023	8:29
ZZZZZ	22L0136-12	NT1422123082.D	01/01/2023	9:05
Calibration Check	SKL0355-CCV1	NT1422123083.D	01/01/2023	9:41

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
 Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
 Injection Date: 30-DEC-2022 07:53 Operator: VTS
 Sample Info: SKL0355-TUN1 SKL0355-TUN1
 Report Date: 12/31/2022 15:11



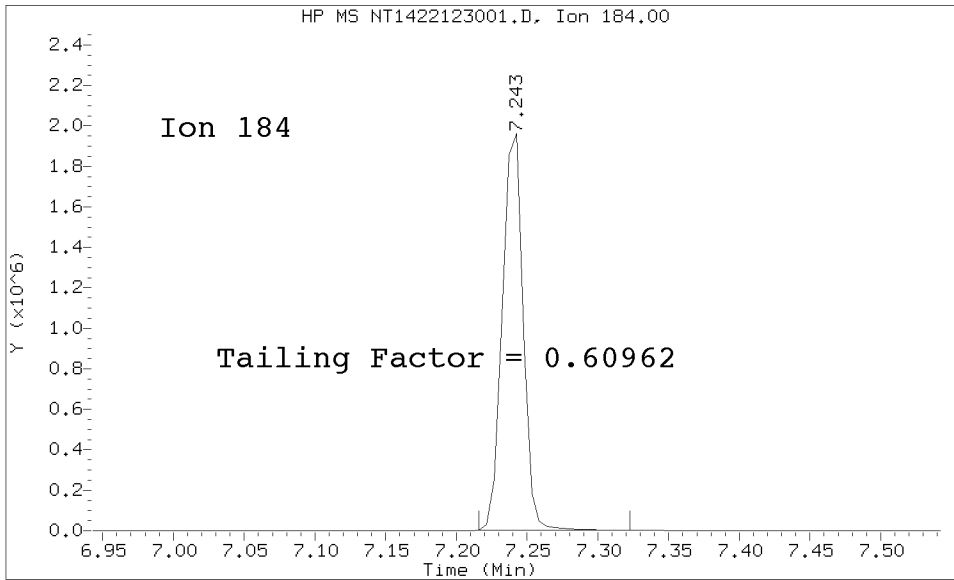
Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol

=====
Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

Data File: NT1422123001.D
 Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
 Location of Maximum: 442.00
 Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		



INITIAL CALIBRATION DATA

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Instrument: NT14

Calibration Date: 12/30/2022

Column (1): ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	0.2	2.248898	0.5	1.851836	1	1.76565	2.5	1.637458	5	1.696739	10	1.715084
bis(2-chloroethyl) ether	0.2	1.54497	0.5	1.245135	1	1.34222	2.5	1.110277	5	1.12874	10	1.14099
2-Chlorophenol	0.2	1.763769	0.5	1.495197	1	1.42085	2.5	1.310292	5	1.380644	10	1.425301
1,3-Dichlorobenzene	0.2	1.928027	0.5	1.560917	1	1.676215	2.5	1.390052	5	1.417896	10	1.429853
1,4-Dichlorobenzene	0.2	1.843668	0.5	1.466644	1	1.592102	2.5	1.311013	5	1.341617	10	1.364501
1,2-Dichlorobenzene	0.2	1.744909	0.5	1.460902	1	1.559256	2.5	1.282346	5	1.32894	10	1.345527
Benzyl Alcohol	0.2	0.8424446	0.5	0.7382943	1	0.7805735	2.5	0.7300673	5	0.8150927	10	0.8389534
2,2'-Oxybis(1-chloropropane)	0.2	0.5275633	0.5	0.4123621	1	0.457572	2.5	0.3490262	5	0.3953408	10	0.3690057
2-Methylphenol	0.2	1.550705	0.5	1.321363	1	1.270208	2.5	1.19752	5	1.258742	10	1.275566
Hexachloroethane	0.2	0.6430155	0.5	0.5189899	1	0.5636454	2.5	0.4817415	5	0.5075007	10	0.5227387
N-Nitroso-di-n-Propylamine	0.2	0.8597752	0.5	0.7423441	1	0.8554759	2.5	0.7406317	5	0.7827459	10	0.7957393
4-Methylphenol	0.2	1.603588	0.5	1.37883	1	1.339681	2.5	1.251051	5	1.351153	10	1.369765
Nitrobenzene	0.2	0.3885811	0.5	0.3167636	1	0.3452801	2.5	0.300009	5	0.3198136	10	0.33438
Isophorone	0.2	0.4170687	0.5	0.3515477	1	0.4141958	2.5	0.3791228	5	0.434338	10	0.4606781
2-Nitrophenol	0.2	0.2171999	0.5	0.1688016	1	0.1740442	2.5	0.1776769	5	0.2185774	10	0.2277228
2,4-Dimethylphenol	0.4	0.4183843	1	0.3570024	2	0.3338109	5	0.3162839	10	0.330235	20	0.3731136
Bis(2-Chloroethoxy)methane	0.2	0.4034213	0.5	0.3269736	1	0.3533537	2.5	0.2991252	5	0.3061148	10	0.3154836
2,4-Dichlorophenol	0.4	0.3181166	1	0.2810633	2	0.2997364	5	0.2607662	10	0.2834456	20	0.3225223
1,2,4-Trichlorobenzene	0.2	0.3995622	0.5	0.324568	1	0.3351147	2.5	0.2818674	5	0.2887319	10	0.2977799
Naphthalene	0.2	1.221526	0.5	0.9676198	1	1.034687	2.5	0.8739434	5	0.9080378	10	0.9400435
Benzoic acid	0.8	3.061006E-02	2	4.967613E-02	4	8.177999E-02	10	0.1546339	20	0.2250023	40	0.2411076
4-Chloroaniline			1	0.3947866	2	0.4154458	5	0.399002	10	0.3994688	20	0.4154909
Hexachlorobutadiene	0.2	0.1875546	0.5	0.1547453	1	0.1612926	2.5	0.1397884	5	0.1480313	10	0.1540463
4-Chloro-3-Methylphenol			1	0.2703707	2	0.2601314	5	0.2579195	10	0.2840888	20	0.2969454
2-Methylnaphthalene	0.2	0.8553626	0.5	0.6940042	1	0.6998589	2.5	0.6439067	5	0.6834666	10	0.7272495
Hexachlorocyclopentadiene			1	0.2489397	2	0.2936375	5	0.2648457	10	0.3025209	20	0.3350343
2,4,6-Trichlorophenol			1	0.2870169	2	0.3015677	5	0.2999683	10	0.3458369	20	0.3696307



INITIAL CALIBRATION DATA EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,5-Trichlorophenol			1	0.361223	2	0.3578205	5	0.3421372	10	0.3965594	20	0.4168822
2-Chloronaphthalene	0.2	1.387569	0.5	1.117638	1	1.228189	2.5	1.003208	5	1.047902	10	1.09962
2-Nitroaniline			1	0.26051	2	0.3076886	5	0.2845123	10	0.306839	20	0.3231995
Acenaphthylene	0.2	2.005887	0.5	1.673991	1	1.898856	2.5	1.590349	5	1.636737	10	1.702987
Dimethylphthalate	0.2	1.295168	0.5	1.078779	1	1.237464	2.5	1.021714	5	1.068789	10	1.091726
2,6-Dinitrotoluene			1	0.2174893	2	0.2687518	5	0.2360681	10	0.2543078	20	0.269795
Acenaphthene	0.2	1.320099	0.5	1.046069	1	1.159189	2.5	0.952877	5	0.9829246	10	1.046455
3-Nitroaniline			1	0.263439	2	0.3182529	5	0.2834771	10	0.3087446	20	0.3334424
2,4-Dinitrophenol			2	8.466972E-02	4	0.1170252	10	0.1557072	20	0.2128194	40	0.2507443
Dibenzofuran	0.2	2.022082	0.5	1.603271	1	1.632918	2.5	1.42838	5	1.49489	10	1.561974
4-Nitrophenol			1	0.1081747	2	0.1206784	5	0.1281484	10	0.1510057	20	0.1581896
2,4-Dinitrotoluene			1	0.291987	2	0.3643157	5	0.3201358	10	0.3514687	20	0.3751801
Fluorene	0.2	1.979275	0.5	1.635556	1	1.791286	2.5	1.665158	5	1.52905	10	1.740605
4-Chlorophenylphenyl ether	0.2	0.9377919	0.5	0.7567725	1	0.9613786	2.5	0.7843464	5	0.8023522	10	0.8307589
Diethyl phthalate	0.2	1.509472	0.5	1.277978	1	1.756654	2.5	1.479429	5	1.529598	10	1.532929
4-Nitroaniline			1	0.3178047	2	0.2965212	5	0.241759	10	0.3722485	20	0.4060248
4,6-Dinitro-2-methylphenol	0.8	9.759356E-02	2	0.1159766	4	0.1356499	10	0.146795	20	0.171322	40	0.1898123
N-Nitrosodiphenylamine	0.2	0.7813904	0.5	0.6690073	1	0.7489188	2.5	0.6153566	5	0.622903	10	0.661175
4-Bromophenyl phenyl ether	0.2	0.2868228	0.5	0.240791	1	0.269851	2.5	0.2281866	5	0.2421925	10	0.2596596
Hexachlorobenzene	0.2	0.3466427	0.5	0.2759322	1	0.3079836	2.5	0.2476557	5	0.2580605	10	0.2695389
Pentachlorophenol			1	0.0640113	2	7.966671E-02	5	9.621021E-02	10	0.1283697	20	0.1422698
Phenanthrene	0.2	1.254213	0.5	1.013236	1	1.120205	2.5	0.9147005	5	0.9459468	10	0.9933942
Anthracene	0.2	1.044702	0.5	0.906473	1	1.045236	2.5	0.8974573	5	0.9652021	10	1.020208
Carbazole	0.2	1.021112	0.5	0.888071	1	1.031749	2.5	0.8588563	5	0.8817249	10	0.9675384
Di-n-Butylphthalate	0.2	0.8688936	0.5	0.7908636	1	0.9951583	2.5	0.944274	5	1.107194	10	1.216543
Fluoranthene	0.2	1.416487	0.5	1.176839	1	1.353283	2.5	1.138026	5	1.253927	10	1.307348
Pyrene	0.2	1.499816	0.5	1.279695	1	1.42524	2.5	1.187021	5	1.297954	10	1.370745



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Instrument: NT14

Calibration Date: 12/30/2022

Column (1): ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Butylbenzylphthalate	0.2	0.3971468	0.5	0.3500694	1	0.4531885	2.5	0.4347242	5	0.5331431	10	0.5343125
Benzo(a)anthracene	0.2	1.357158	0.5	1.139124	1	1.286088	2.5	1.073783	5	1.163081	10	1.221004
3,3'-Dichlorobenzidine			1.5	0.3560182	3	0.3921513	7.5	0.3181743	15	0.3074182	30	0.3974804
Chrysene	0.2	1.345974	0.5	1.119691	1	1.215346	2.5	0.995944	5	1.070155	10	1.114624
bis(2-Ethylhexyl)phthalate	0.2	0.3956958	0.5	0.3633061	1	0.4722937	2.5	0.4399021	5	0.4595073	10	0.4959663
Di-n-Octylphthalate	0.2	1.203656	0.5	0.9783901	1	1.062281	2.5	0.8652733	5	0.8559596	10	0.8908453
Benzo(a)fluoranthene, Total	0.4	1.323037	1	1.095539	2	1.244146	5	1.065182	10	1.167852	20	1.259214
Benzo(a)pyrene	0.2	1.066264	0.5	0.9048211	1	1.044788	2.5	0.9273461	5	1.03294	10	1.128387
Indeno(1,2,3-cd)pyrene	0.2	1.237356	0.5	1.045968	1	1.215216	2.5	1.074254	5	1.154658	10	1.247956
Dibenzo(a,h)anthracene	0.2	1.080467	0.5	0.8919761	1	1.02679	2.5	0.8964822	5	0.9628485	10	1.063732
Benzo(g,h,i)perylene	0.2	1.090313	0.5	0.8982822	1	1.020279	2.5	0.8945793	5	0.939054	10	1.031269
1-Methylnaphthalene	0.2	0.8101755	0.5	0.6671364	1	0.6728227	2.5	0.6197289	5	0.661132	10	0.6978153
2-Fluorophenol	0.3	1.456024	0.75	1.192829	1.5	1.408281	3.75	1.19259	7.5	1.242464	15	1.255297
Phenol-d5	0.3	1.690921	0.75	1.442174	1.5	1.685939	3.75	1.45879	7.5	1.57335	15	1.611467
2-Chlorophenol-d4	0.3	1.459762	0.75	1.22369	1.5	1.42935	3.75	1.223216	7.5	1.296086	15	1.334425
1,2-Dichlorobenzene-d4	0.2	1.070291	0.5	0.8775768	1	0.9854004	2.5	0.8052268	5	0.849654	10	0.8797075
Nitrobenzene-d5	0.2	0.3603743	0.5	0.2993225	1	0.3461398	2.5	0.306944	5	0.3334126	10	0.3526347
2-Fluorobiphenyl	0.2	1.590987	0.5	1.260855	1	1.468992	2.5	1.200146	5	1.247683	10	1.303056
2,4,6-Tribromophenol			0.75	0.1314566	1.5	0.1781234	3.75	0.1642932	7.5	0.192641	15	0.2085371
p-Terphenyl-d14	0.2	1.112516	0.5	0.9073567	1	1.063354	2.5	0.8607743	5	0.9199812	10	0.9255223



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.680974										
bis(2-chloroethyl) ether	20	1.165055										
2-Chlorophenol	20	1.428978										
1,3-Dichlorobenzene	20	1.439592										
1,4-Dichlorobenzene	20	1.352304										
1,2-Dichlorobenzene	20	1.351887										
Benzyl Alcohol	20	0.8623322										
2,2'-Oxybis(1-chloropropane)	20	0.4097572										
2-Methylphenol	20	1.279195										
Hexachloroethane	20	0.5402442										
N-Nitroso-di-n-Propylamine	20	0.7992017										
4-Methylphenol	20	1.3619										
Nitrobenzene	20	0.3433745										
Isophorone	20	0.5358455										
2-Nitrophenol	20	0.261475										
2,4-Dimethylphenol	40	0.3219617										
Bis(2-Chloroethoxy)methane	20	0.3237199										
2,4-Dichlorophenol	40	0.3002153										
1,2,4-Trichlorobenzene	20	0.3061376										
Naphthalene	20	0.9448258										
Benzoic acid	80	0.2734244										
4-Chloroaniline	40	0.4115465										
Hexachlorobutadiene	20	0.1628415										
4-Chloro-3-Methylphenol	40	0.3015602										
2-Methylnaphthalene	20	0.7506691										
Hexachlorocyclopentadiene	40	0.3692388										
2,4,6-Trichlorophenol	40	0.3991639										



INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,5-Trichlorophenol	40	0.437318										
2-Chloronaphthalene	20	1.124676										
2-Nitroaniline	40	0.3220241										
Acenaphthylene	20	1.70286										
Dimethylphthalate	20	1.102727										
2,6-Dinitrotoluene	40	0.2810509										
Acenaphthene	20	1.066498										
3-Nitroaniline	40	0.3491574										
2,4-Dinitrophenol	80	0.2780648										
Dibenzofuran	20	1.614649										
4-Nitrophenol	40	0.1642219										
2,4-Dinitrotoluene	40	0.3926278										
Fluorene	20	1.742016										
4-Chlorophenylphenyl ether	20	0.8421541										
Diethyl phthalate	20	1.646826										
4-Nitroaniline	40	0.4138808										
4,6-Dinitro-2-methylphenol	80	0.2140455										
N-Nitrosodiphenylamine	20	0.7059401										
4-Bromophenyl phenyl ether	20	0.2918486										
Hexachlorobenzene	20	0.2907292										
Pentachlorophenol	40	0.1664906										
Phenanthrene	20	1.058738										
Anthracene	20	1.090063										
Carbazole	20	1.08841										
Di-n-Butylphthalate	20	1.353364										
Fluoranthene	20	1.369675										
Pyrene	20	1.418654										



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Butylbenzylphthalate	20	0.5529701										
Benzo(a)anthracene	20	1.241812										
3,3'-Dichlorobenzidine	60	0.4543797										
Chrysene	20	1.150279										
bis(2-Ethylhexyl)phthalate	20	0.4829547										
Di-n-Octylphthalate	20	0.8647859										
Benzo(a)fluoranthene, Total	40	1.352364										
Benzo(a)pyrene	20	1.210557										
Indeno(1,2,3-cd)pyrene	20	1.340235										
Dibenzo(a,h)anthracene	20	1.144126										
Benzo(g,h,i)perylene	20	1.092432										
1-Methylnaphthalene	20	0.7277069										
2-Fluorophenol	30	1.222943										
Phenol-d5	30	1.623181										
2-Chlorophenol-d4	30	1.343825										
1,2-Dichlorobenzene-d4	20	0.8955576										
Nitrobenzene-d5	20	0.3656038										
2-Fluorobiphenyl	20	1.34248										
2,4,6-Tribromophenol	30	0.2318554										
p-Terphenyl-d14	20	0.9317848										



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS
Calibration Comments: 8270E, 625.1 SVOA ICAL			

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.79952	11.7			RSD (15)	
bis(2-chloroethyl) ether	1.239627	12.7			RSD (15)	
2-Chlorophenol	1.460719	9.9			RSD (15)	
1,3-Dichlorobenzene	1.548936	12.6			RSD (15)	
1,4-Dichlorobenzene	1.467407	13.1			RSD (15)	
1,2-Dichlorobenzene	1.43911	11.4			RSD (15)	
Benzyl Alcohol	0.8011083	6.5			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.4172325	14.3			RSD (15)	
2-Methylphenol	1.307614	8.7			RSD (15)	
Hexachloroethane	0.5396966	9.7			RSD (15)	
N-Nitroso-di-n-Propylamine	0.7965591	6.0			RSD (15)	
4-Methylphenol	1.379424	7.8			RSD (15)	
Nitrobenzene	0.3354574	8.5			RSD (15)	
Isophorone	0.4275424	13.9			RSD (15)	
2-Nitrophenol	0.2064997	16.6		0.9994	QCOD (0.99)	
2,4-Dimethylphenol	0.3501131	10.3			RSD (15)	
Bis(2-Chloroethoxy)methane	0.3325989	10.8			RSD (15)	
2,4-Dichlorophenol	0.2951237	7.4			RSD (15)	
1,2,4-Trichlorobenzene	0.3191088	12.6			RSD (15)	
Naphthalene	0.9843833	11.8			RSD (15)	
Benzoic acid	0.1508906	65.2		0.9964	QCOD (0.99)	
4-Chloroaniline	0.4059568	2.3			RSD (15)	
Hexachlorobutadiene	0.1583286	9.5			RSD (15)	
4-Chloro-3-Methylphenol	0.2785027	6.7			RSD (15)	
2-Methylnaphthalene	0.7220739	9.4			RSD (15)	
Hexachlorocyclopentadiene	0.3023695	14.7			RSD (15)	
2,4,6-Trichlorophenol	0.3338641	13.4			RSD (15)	
2,4,5-Trichlorophenol	0.3853234	9.7			RSD (15)	
2-Chloronaphthalene	1.144115	11.2			RSD (15)	
2-Nitroaniline	0.3007956	8.0			RSD (15)	



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Acenaphthylene	1.744524	8.6			RSD (15)	
Dimethylphthalate	1.128052	8.8			RSD (15)	
2,6-Dinitrotoluene	0.2545771	9.4			RSD (15)	
Acenaphthene	1.082016	11.4			RSD (15)	
3-Nitroaniline	0.3094189	10.2			RSD (15)	
2,4-Dinitrophenol	0.1831718	41.8		0.9961	QCOD (0.99)	
Dibenzofuran	1.622595	11.7			RSD (15)	
4-Nitrophenol	0.1384031	16.3		0.9992	QCOD (0.99)	
2,4-Dinitrotoluene	0.3492859	10.6			RSD (15)	
Fluorene	1.726135	8.2			RSD (15)	
4-Chlorophenylphenyl ether	0.8450792	9.1			RSD (15)	
Diethyl phthalate	1.533269	9.7			RSD (15)	
4-Nitroaniline	0.3413732	19.8		0.9965	QCOD (0.99)	
4,6-Dinitro-2-methylphenol	0.1530278	26.9		0.9992	QCOD (0.99)	
N-Nitrosodiphenylamine	0.6863845	9.1			RSD (15)	
4-Bromophenyl phenyl ether	0.2599074	9.3			RSD (15)	
Hexachlorobenzene	0.2852204	11.8			RSD (15)	
Pentachlorophenol	0.1128364	34.9		0.9979	QCOD (0.99)	
Phenanthrene	1.042919	11.1			RSD (15)	
Anthracene	0.9956202	7.4			RSD (15)	
Carbazole	0.9624945	9.2			RSD (15)	
Di-n-Butylphthalate	1.03947	19.1		0.9993	QCOD (0.99)	
Fluoranthene	1.287941	8.0			RSD (15)	
Pyrene	1.354161	7.8			RSD (15)	
Butylbenzylphthalate	0.4650792	16.7		0.9993	QCOD (0.99)	
Benzo(a)anthracene	1.211721	7.9			RSD (15)	
3,3'-Dichlorobenzidine	0.370937	14.8			RSD (15)	
Chrysene	1.144573	9.8			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.4442323	10.9			RSD (15)	
Di-n-Octylphthalate	0.9601702	13.7			RSD (15)	



INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Benzofluoranthenes, Total	1.215333	9.0			RSD (15)	
Benzo(a)pyrene	1.045015	10.2			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.187949	8.7			RSD (15)	
Dibenzo(a,h)anthracene	1.009489	9.5			RSD (15)	
Benzo(g,h,i)perylene	0.9951726	8.5			RSD (15)	
1-Methylnaphthalene	0.6937882	8.8			RSD (15)	
2-Fluorophenol	1.28149	8.3			RSD (15)	
Phenol-d5	1.583689	6.3			RSD (15)	
2-Chlorophenol-d4	1.330051	6.9			RSD (15)	
1,2-Dichlorobenzene-d4	0.9090592	9.9			RSD (15)	
Nitrobenzene-d5	0.337776	7.7			RSD (15)	
2-Fluorobiphenyl	1.344886	10.3			RSD (15)	
2,4,6-Tribromophenol	0.1844845	19.0		0.9994	QCOD (0.99)	
p-Terphenyl-d14	0.9601842	9.5			RSD (15)	



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWVST9-110122	20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
 Calibration ID: FL00066 Tune File: 221222.U
 EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Time	Filename	LabID	ClientId	DF																							
1	0753	NT1422123001.D	SKL0355-TUN1		1		NO	ISTDS	FOUND																		
2	0806	NT1422123002.D	SKL0355-CAL5		1		9.18	151013		11.69	553510		15.33	305411		18.38	491708		23.42	424740		26.10	395150		24.44	684951	
3	0842	NT1422123003.D	SKL0355-CAL7		1		9.18	143300		11.70	507556		15.33	290278		18.38	423275		23.42	399899		26.11	359748		24.44	687276	
4	0918	NT1422123004.D	SKL0355-CAL1		1		9.18	156948		11.69	570074		15.33	297614		18.37	498496		23.41	404183		26.10	371728		24.44	540769	
5	0954	NT1422123005.D	SKL0355-CAL6		1		9.18	144388		11.69	520524		15.33	291597		18.38	457445		23.42	408635		26.10	373712		24.44	652062	
6	1030	NT1422123006.D	SKL0355-CAL2		1		9.18	156057		11.69	571985		15.33	301808		18.37	495600		23.41	403440		26.10	378046		24.44	538411	
7	1107	NT1422123007.D	SKL0355-CAL4		1		9.18	144333		11.69	532256		15.33	287473		18.37	465065		23.41	401380		26.10	368275		24.44	554407	
8	1143	NT1422123008.D	SKL0355-CAL3		1		9.18	148086		11.69	558364		15.33	288519		18.37	472142		23.41	394732		26.10	370479		24.44	526757	
9	1219	NT1422123009.D	SKL0356-CAL1		1		9.18	146141		11.69	533259		15.33	275387		18.37	457503		23.41	370157		26.10	345259		24.44	434329	
10	1255	NT1422123010.D			1		9.18	150179		11.69	554597		15.33	282107		18.37	470125		23.41	374625		26.10	352812		24.44	438400	
11	1331	NT1422123011.D	SKL0355-ICV1		1		9.18	145276		11.69	542519		15.33	292314		18.37	478070		23.42	412507		26.10	379639		24.44	590464	
12	1408	NT1422123012.D	SKL0355-ICB1		1		9.18	174509		11.69	641934		15.33	335436		18.37	560033		23.41	444498		26.10	423100		24.44	541261	
13	1516	NT1422123013.D		NOT USING	1		9.18	146864		11.69	550707		15.33	275006		18.37	643649		23.42	583196		26.11	599166		24.44	900001	
14	1553	NT1422123014.D	SKL0355-ICV2		1		9.18	130476		11.69	484478		15.33	261445		18.37	412822		23.41	349122		26.10	327130		24.44	522046	
15	1629	NT1422123015.D			1		9.18	132066		11.69	499724		15.33	257503		18.37	413048		23.41	335724		26.09	308207		24.44	434247	
16	1705	NT1422123016.D	BKK0733-BLK1		1		9.18	126906		11.69	483124		15.32	256877		18.37	444495		23.41	333261		26.09	320178		24.44	495841	
17	1741	NT1422123017.D	BKK0733-BS1		1		9.18	124003		11.69	465208		15.33	251001		18.37	418062		23.41	342657		26.10	324681		24.44	577170	
18	1818	NT1422123018.D	BKK0733-BSD1		1		9.18	124976		11.69	467689		15.33	258016		18.37	428907		23.41	356316		26.09	340564		24.44	643011	
19	1854	NT1422123019.D	22K0399-01		1		9.18	121953		11.69	458530		15.32	242934		18.37	396367		23.41	291013		26.10	344522		24.44	561675	
20	1930	NT1422123020.D	BKK0733-MS1		1		9.18	115884		11.69	434586		15.33	230677		18.38	374636		23.42	295274		26.11	347439		24.44	560195	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Time	Filename	LabID	ClientId	DF										
21	2006	NT1422123021.D	BKK0733-MSD1		1		9.18	115038 11.69	422786 15.33	231453 18.38	377450 23.42	296619 26.11	342779 24.44	551214
22	2042	NT1422123022.D	22K0399-07		1		9.18	118717 11.69	440463 15.33	235964 18.38	394316 23.42	287701 26.11	334549 24.44	535369
23	2119	NT1422123023.D	22K0399-08		1		9.18	119344 11.69	442541 15.33	234795 18.38	389401 23.42	283797 26.11	329236 24.44	507254
24	2155	NT1422123024.D	22K0399-31		1		9.18	120549 11.69	456717 15.33	235065 18.38	385218 23.42	290921 26.12	332471 24.44	522799
25	2231	NT1422123025.D	22K0399-43		1		9.18	115488 11.69	438973 15.33	230528 18.38	372346 23.42	316873 26.13	312137 24.45	540998
26	2307	NT1422123026.D	22K0399-44		1		9.18	114799 11.69	429093 15.33	225512 18.38	375444 23.42	344033 26.14	334179 24.45	548267
27	2343	NT1422123027.D	BKK0733-SRM1		1		9.18	116509 11.69	420160 15.33	224093 18.38	385101 23.42	308820 26.10	324504 24.44	539884

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123002.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123003.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123004.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123005.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123006.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123007.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123008.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123009.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123010.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123011.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123012.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123013.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123014.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123015.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123016.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123017.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123018.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123019.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123020.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123021.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123022.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123023.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123024.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123025.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123026.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123027.D	Data Locked	van,	04-Jan-2023	08:39

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
 End Cal Date : 30-DEC-2022 11:43
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

Calibration File Names:

Level 1: \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
 Level 2: \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
 Level 3: \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D
 Level 4: \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
 Level 5: \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
 Level 6: \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
 Level 7: \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D

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

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

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

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

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

ARI Labs, Inc.

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

ARI Labs, Inc.

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 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
120 2,3,4,6-Tetrachlorophenol	3081	7674	16275	43442	110018	230505					
	511264						QUAD	0.000e+000	3.55507	-0.40963	0.99950
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000 <-

ARI Labs, Inc.

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 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-
111 Azobenzene (1,2-DP-Hydrazine)	1.68258	1.46194	1.65694	1.39901	1.40938	1.42114					
	1.36696						AVRG		1.48542		8.70237
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000<-

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 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

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

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 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
106 Guaiacol	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
105 1-methylnaphthalene	0.81018	0.66714	0.67282	0.61973	0.66113	0.69782					
	0.72771						AVRG		0.69379		8.80958
151 1,2,4,5-Tetrachlorobenzene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000 <-
152 Benzo(e)pyrene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
153 Chlorpyrifos	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
154 Diazinon	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
155 Kelthane	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000

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

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
163 1,2,3,5,8-Pentachloronaphthal	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
3 Phenol	2.24890	1.85184	1.76565	1.63746	1.69674	1.71508					
	1.68097						AVRG		1.79952		11.65290
4 Bis(2-Chloroethyl)ether	1.54497	1.24513	1.34222	1.11028	1.12874	1.14099					
	1.16506						AVRG		1.23963		12.67426

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
6 2-Chlorophenol	1.76377 1.42898	1.49520	1.42085	1.31029	1.38064	1.42530					
							AVRG		1.46072		9.91755
7 1,3-Dichlorobenzene	1.92803 1.43959	1.56092	1.67622	1.39005	1.41790	1.42985					
							AVRG		1.54894		12.60186
9 1,4-Dichlorobenzene	1.84367 1.35230	1.46664	1.59210	1.31101	1.34162	1.36450					
							AVRG		1.46741		13.08603
11 Benzyl alcohol	0.84244 0.86233	0.73829	0.78057	0.73007	0.81509	0.83895					
							AVRG		0.80111		6.54578
12 1,2-Dichlorobenzene	1.74491 1.35189	1.46090	1.55926	1.28235	1.32894	1.34553					
							AVRG		1.43911		11.40035
13 2-Methylphenol	1.55070 1.27919	1.32136	1.27021	1.19752	1.25874	1.27557					
							AVRG		1.30761		8.66486
14 2,2'-oxybis(1-Chloropropane)	4140 293591	8044	16940	31485	74627	133200					
							QUAD	0.000e+000	2.78633	-0.16655	0.99920

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
15 4-Methylphenol	1.60359	1.37883	1.33968	1.25105	1.35115	1.36976					
	1.36190						AVRG		1.37942		7.80273
16 N-Nitroso-di-n-propylamine	0.85978	0.74234	0.85548	0.74063	0.78275	0.79574					
	0.79920						AVRG		0.79656		6.00606
17 Hexachloroethane	0.64302	0.51899	0.56365	0.48174	0.50750	0.52274					
	0.54024						AVRG		0.53970		9.67545
19 Nitrobenzene	0.38858	0.31676	0.34528	0.30001	0.31981	0.33438					
	0.34337						AVRG		0.33546		8.46069
20 Isophorone	0.41707	0.35155	0.41420	0.37912	0.43434	0.46068					
	0.53585						AVRG		0.42754		13.92975
21 2-Nitrophenol	6191	12069	24295	59106	151231	296338					
	663566						QUAD	0.000e+000	4.88934	-0.81682	0.99956
22 2,4-Dimethylphenol	0.41838	0.35700	0.33381	0.31628	0.33024	0.37311					
	0.32196						AVRG		0.35011		10.32149

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
23 Bis(2-Chloroethoxy)methane	0.40342	0.32697	0.35335	0.29913	0.30611	0.31548					
	0.32372						AVRG		0.33260		10.75114
24 Benzoic acid	++++	14207	45663	205762	622705	1255023					
	2775564						QUAD	0.000e+000	4.69405	-0.19087	0.99854
25 2,4-Dichlorophenol	18135	40191	83681	173493	392225	839403					
	1523761						QUAD	0.000e+000	3.18639	0.04188	0.99824
26 1,2,4-Trichlorobenzene	0.39956	0.32457	0.33511	0.28187	0.28873	0.29778					
	0.30614						AVRG		0.31911		12.59456
28 Naphthalene	1.22153	0.96762	1.03469	0.87394	0.90804	0.94004					
	0.94483						AVRG		0.98438		11.77442
29 4-Chloroaniline	++++	0.39479	0.41545	0.39900	0.39947	0.41549					
	0.41155						AVRG		0.40596		2.27753
30 Hexachlorobutadiene	0.18755	0.15475	0.16129	0.13979	0.14803	0.15405					
	0.16284						AVRG		0.15833		9.52389

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
31 4-Chloro-3-methylphenol	++++ 0.30156	0.27037	0.26013	0.25792	0.28409	0.29695					
							AVRG		0.27850		6.67952
32 2-Methylnaphthalene	0.85536 0.75067	0.69400	0.69986	0.64391	0.68347	0.72725					
							AVRG		0.72207		9.37452
33 Hexachlorocyclopentadiene	++++ 0.36924	0.24894	0.29364	0.26485	0.30252	0.33503					
							AVRG		0.30237		14.69946
34 2,4,6-Trichlorophenol	++++ 0.39916	0.28702	0.30157	0.29997	0.34584	0.36963					
							AVRG		0.33386		13.44409
35 2,4,5-Trichlorophenol	++++ 0.43732	0.36122	0.35782	0.34214	0.39656	0.41688					
							AVRG		0.38532		9.72979
37 2-Chloronaphthalene	1.38757 1.12468	1.11764	1.22819	1.00321	1.04790	1.09962					
							AVRG		1.14411		11.19934
38 2-Nitroaniline	++++ 0.32202	0.26051	0.30769	0.28451	0.30684	0.32320					
							AVRG		0.30080		8.04051

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
39 Dimethylphthalate	1.29517 1.10273	1.07878	1.23746	1.02171	1.06879	1.09173					
							AVRG		1.12805		8.79864
40 Acenaphthylene	2.00589 1.70286	1.67399	1.89886	1.59035	1.63674	1.70299					
							AVRG		1.74452		8.62862
41 2,6-Dinitrotoluene	+++++ 0.28105	0.21749	0.26875	0.23607	0.25431	0.26979					
							AVRG		0.25458		9.38069
43 3-Nitroaniline	+++++ 0.34916	0.26344	0.31825	0.28348	0.30874	0.33344					
							AVRG		0.30942		10.24241
44 Acenaphthene	1.32010 1.06650	1.04607	1.15919	0.95288	0.98292	1.04646					
							AVRG		1.08202		11.44000
45 2,4-Dinitrophenol	+++++ 0.27806	0.08467	0.11703	0.15571	0.21282	0.25074					
							AVRG		0.18317		41.77892 <-
46 Dibenzofuran	2.02208 1.61465	1.60327	1.63292	1.42838	1.49489	1.56197					
							AVRG		1.62260		11.74300

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	20.0000										
	Level 7										
47 4-Nitrophenol	++++ 476700	8162	17409	46049	115297	230638	QUAD	0.000e+000	6.75734	-0.41335	0.99959
48 2,4-Dinitrotoluene	++++ 0.39263	0.29199	0.36432	0.32014	0.35147	0.37518	AVRG		0.34929		10.64521
49 Fluorene	1.97928 1.74202	1.63556	1.79129	1.66516	1.52905	1.74061	AVRG		1.72614		8.17761
50 Diethylphthalate	1.50947 1.64683	1.27798	1.75665	1.47943	1.52960	1.53293	AVRG		1.53327		9.65346
51 4-Chlorophenyl-phenylether	0.93779 0.84215	0.75677	0.96138	0.78435	0.80235	0.83076	AVRG		0.84508		9.12091
52 4-Nitroaniline	++++ 1201405	23979	42776	86874	284222	591978	QUAD	0.000e+000	2.68791	-0.06783	0.99758
53 4,6-Dinitro-2-methylphenol	++++ 1812002	28739	64046	170673	421202	868287	QUAD	0.000e+000	5.95957	-0.30276	0.99955

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
54 N-Nitrosodiphenylamine	0.78139	0.66901	0.74892	0.61536	0.62290	0.66118					
	0.70594						AVRG		0.68638		9.08506
56 4-Bromophenyl-phenylether	0.28682	0.24079	0.26985	0.22819	0.24219	0.25966					
	0.29185						AVRG		0.25991		9.33117
57 Hexachlorobenzene	0.34664	0.27593	0.30798	0.24766	0.25806	0.26954					
	0.29073						AVRG		0.28522		11.80503
58 Pentachlorophenol	++++	7931	18807	55930	157801	325403					
	704713						QUAD	0.000e+000	8.09980	-1.26443	0.99905
60 Phenanthrene	1.25421	1.01324	1.12021	0.91470	0.94595	0.99339					
	1.05874						AVRG		1.04292		11.07498
61 Anthracene	1.04470	0.90647	1.04524	0.89746	0.96520	1.02021					
	1.09006						AVRG		0.99562		7.43791
62 Carbazole	1.02111	0.88807	1.03175	0.85886	0.88172	0.96754					
	1.08841						AVRG		0.96249		9.18725

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	20.0000										
	Level 7										
63 Di-n-butylphthalate	21657 2864226	48994	117464	274468	680520	1391254	QUAD	0.000e+000	0.92185	-0.02722	0.99955
64 Fluoranthene	1.41649 1.36968	1.17684	1.35328	1.13803	1.25393	1.30735	AVRG		1.28794		8.00806
65 Pyrene	1.49982 1.41865	1.27969	1.42524	1.18702	1.29795	1.37075	AVRG		1.35416		7.82345
67 Butylbenzylphthalate	8026 1105661	17654	44722	109056	283059	545847	QUAD	0.000e+000	1.95943	-0.05530	0.99953
68 Benzo(a)anthracene	1.35716 1.24181	1.13912	1.28609	1.07378	1.16308	1.22100	AVRG		1.21172		7.85360
70 3,3'-Dichlorobenzidine	++++ 0.45438	0.35602	0.39215	0.31817	0.30742	0.39748	AVRG		0.37094		14.84368
71 Chrysene	1.34597 1.15028	1.11969	1.21535	0.99594	1.07015	1.11462	AVRG		1.14457		9.75175

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
72 bis(2-Ethylhexyl)phthalate	0.39570 0.48295	0.36331	0.47229	0.43990	0.45951	0.49597					
							AVRG		0.44423		10.92030
73 Di-n-octylphthalate	1.20366 0.86479	0.97839	1.06228	0.86527	0.85596	0.89085					
							AVRG		0.96017		13.69944
74 Benzo(b)fluoranthene	1.29643 1.41604	1.06474	1.31960	1.11886	1.25593	1.32801					
							AVRG		1.25709		9.84273
75 Benzo(k)fluoranthene	1.45095 1.40788	1.20794	1.28150	1.10572	1.19408	1.30815					
							AVRG		1.27946		9.53602
187 Total Benzofluoranthenes	1.32304 1.35236	1.09554	1.24415	1.06518	1.16785	1.25921					
							AVRG		1.21533		9.03129
76 Benzo(a)pyrene	1.06626 1.21056	0.90482	1.04479	0.92735	1.03294	1.12839					
							AVRG		1.04501		10.22109
78 Indeno(1,2,3-cd)pyrene	1.23736 1.34024	1.04597	1.21522	1.07425	1.15466	1.24796					
							AVRG		1.18795		8.70548

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Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
79 Dibenzo(a,h)anthracene	1.08047 1.14413	0.89198	1.02679	0.89648	0.96285	1.06373					
							AVRG		1.00949		9.49823
80 Benzo(g,h,i)perylene	1.09031 1.09243	0.89828	1.02028	0.89458	0.93905	1.03127					
							AVRG		0.99517		8.51662
90 N-Nitrosodimethylamine	1.05149 0.73278	0.88437	0.97997	0.83613	0.85202	0.84122					
							AVRG		0.88257		11.81707
91 Aniline	2.10293 1.65597	1.73319	1.83176	1.59251	1.65533	1.69345					
							AVRG		1.75216		9.81075
92 1,2-Diphenylhydrazine	+++++ +++++	+++++	+++++	+++++	+++++	+++++					
							AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++ 2468777	50054	95074	194169	482728	1160731					
							QUAD	0.000e+000	2.04434	-0.06983	0.99754
96 p-Cymene	+++++ +++++	+++++	+++++	+++++	+++++	+++++					
							AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
 End Cal Date : 30-DEC-2022 11:43
 Quant Method : ISTD
 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
97 Caffeine	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
98 Retene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000<-
99 Perylene	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000<-
100 3-beta-Coprostanol	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000<-
101 Cholesterol	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000<-
102 beta-Sitosterol	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
103 Pyridine	3.35054	2.84937	3.26505	2.69575	2.65192	2.60034					
	2.21804						AVRG		2.80443		14.06111

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
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 Origin : Force
 Target Version : 4.14
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 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
188 2,6-Dichlorophenol	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000		0.000e+000	<-
\$ 1 2-Fluorophenol	1.45602	1.19283	1.40828	1.19259	1.24246	1.25530					
	1.22294						AVRG	1.28149		8.30362	
\$ 137 d8-1,4-Dioxane	++++	++++	++++	++++	++++	++++					
	++++						AVRG	0.000e+000		0.000e+000	<-
\$ 2 Phenol-d5	1.69092	1.44217	1.68594	1.45879	1.57335	1.61147					
	1.62318						AVRG	1.58369		6.31534	
\$ 5 2-Chlorophenol-d4	1.45976	1.22369	1.42935	1.22322	1.29609	1.33442					
	1.34383						AVRG	1.33005		6.91635	
\$ 10 1,2-Dichlorobenzene-d4	1.07029	0.87758	0.98540	0.80523	0.84965	0.87971					
	0.89556						AVRG	0.90906		9.85632	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
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 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000	0.5000000	1.0000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6			m1	m2	
	20.0000										
	Level 7										
\$ 18 Nitrobenzene-d5	0.36037	0.29932	0.34614	0.30694	0.33341	0.35263					
	0.36560						AVRG		0.33778		7.66710
\$ 36 2-Fluorobiphenyl	1.59099	1.26085	1.46899	1.20015	1.24768	1.30306					
	1.34248						AVRG		1.34489		10.30227
\$ 55 2,4,6-Tribromophenol	++++	7439	19272	44278	110315	228033					
	504769						QUAD	0.000e+000	5.34233	-0.59550	0.99961
\$ 66 Terphenyl-d14	1.11252	0.90736	1.06335	0.86077	0.91998	0.92552					
	0.93178						AVRG		0.96018		9.52115
\$ 85 p-Cresol-d4	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
\$ 86 Anthracene-d10	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000
\$ 87 Fluoranthene-d10	++++	++++	++++	++++	++++	++++					
	++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
 End Cal Date : 30-DEC-2022 11:43
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 Origin : Force
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Last Edit : 30-Dec-2022 17:01 deenayd

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

ID: RT01 RT02 RT03 RT04 RT05 RT06 RT07
FILENAME: NT1422123002 NT1422123003 NT1422123004 NT1422123005 NT1422123006 NT1422123007 NT1422123008
INJ. DATE: 30-DEC-2022 30-DEC-2022 30-DEC-2022 30-DEC-2022 30-DEC-2022 30-DEC-2022 30-DEC-2022
INJ. TIME: 08:06 08:42 09:18 09:54 10:30 11:07 11:43

Table with columns: Compound, RT01, RT02, RT03, RT04, RT05, RT06, RT07, EXPECT RT, RT WINDOW, AVG RT, STD DEV. Rows include various chemical compounds like 2-Fluorophenol, Carbaryl, n-Decane, etc.

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.437	24.445	24.437	24.437	24.437	24.437	24.437	24.437	21.437-27.437	24.438	0.003
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropyl-naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.052	16.060	16.052	16.052	16.052	16.052	16.052	16.052	13.052-19.052	16.053	0.003
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.747	16.763	16.747	16.755	16.747	16.747	16.747	16.747	13.747-19.747	16.751	0.006
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
105 1-methylnaphthalene	13.360	13.368	13.360	13.360	13.360	13.360	13.360	13.360	10.360-16.360	13.361	0.003
151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
\$ 2 Phenol-d5	8.527	8.542	8.519	8.535	8.519	8.527	8.519	8.527	5.527-11.527	8.527	0.009
3 Phenol	8.550	8.565	8.542	8.550	8.542	8.542	8.542	8.550	5.550-11.550	8.548	0.008
4 Bis(2-Chloroethyl)ethe	8.720	8.728	8.720	8.720	8.720	8.720	8.720	8.720	5.720-11.720	8.721	0.003
\$ 5 2-Chlorophenol-d4	8.820	8.828	8.813	8.820	8.813	8.813	8.813	8.820	5.820-11.820	8.817	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
6 2-Chlorophenol	8.843	8.851	8.844	8.844	8.844	8.844	8.844	8.843	5.843-11.843	8.845	0.003
7 1,3-Dichlorobenzene	9.122	9.122	9.122	9.122	9.114	9.122	9.122	9.122	6.122-12.122	9.121	0.003
* 8 1,4-Dichlorobenzene-d4	9.184	9.184	9.184	9.184	9.184	9.184	9.184	9.184	6.184-12.184	9.184	0.000
9 1,4-Dichlorobenzene	9.215	9.223	9.215	9.215	9.215	9.215	9.215	9.215	6.215-12.215	9.216	0.003
\$ 10 1,2-Dichlorobenzene-d4	9.548	9.556	9.549	9.549	9.549	9.549	9.549	9.548	6.548-12.548	9.550	0.003
11 Benzyl alcohol	9.448	9.463	9.448	9.456	9.448	9.448	9.448	9.448	6.448-12.448	9.451	0.006
12 1,2-Dichlorobenzene	9.572	9.580	9.572	9.572	9.572	9.572	9.572	9.572	6.572-12.572	9.573	0.003
13 2-Methylphenol	9.673	9.681	9.673	9.673	9.673	9.673	9.673	9.673	6.673-12.673	9.674	0.003
14 2,2'-oxybis(1-Chloropr	9.758	9.758	9.759	9.759	9.759	9.759	9.759	9.758	6.758-12.758	9.758	0.000
15 4-Methylphenol	9.944	9.960	9.937	9.945	9.937	9.945	9.937	9.944	6.944-12.944	9.944	0.008
16 N-Nitroso-di-n-propyla	10.014	10.038	10.015	10.022	10.015	10.015	10.015	10.014	7.014-13.014	10.019	0.009
17 Hexachloroethane	10.177	10.177	10.178	10.178	10.178	10.178	10.178	10.177	7.177-13.177	10.178	0.000
\$ 18 Nitrobenzene-d5	10.286	10.294	10.279	10.286	10.279	10.279	10.279	10.286	7.286-13.286	10.283	0.006
19 Nitrobenzene	10.317	10.325	10.317	10.317	10.317	10.317	10.317	10.317	7.317-13.317	10.318	0.003
20 Isophorone	10.775	10.798	10.767	10.775	10.767	10.767	10.767	10.775	7.775-13.775	10.774	0.011
21 2-Nitrophenol	10.953	10.961	10.954	10.954	10.954	10.954	10.954	10.953	7.953-13.953	10.955	0.003
22 2,4-Dimethylphenol	11.000	11.015	11.000	11.008	11.000	11.000	11.000	11.000	8.000-14.000	11.003	0.006
23 Bis(2-Chloroethoxy)met	11.201	11.209	11.202	11.202	11.194	11.202	11.202	11.201	8.201-14.201	11.202	0.004
24 Benzoic acid	11.201	11.357	11.101	11.271	11.109	11.155	11.116	11.201	8.201-14.201	11.187	0.096
25 2,4-Dichlorophenol	11.411	11.419	11.403	11.411	11.403	11.403	11.403	11.411	8.411-14.411	11.408	0.006
26 1,2,4-Trichlorobenzene	11.604	11.612	11.604	11.604	11.597	11.597	11.604	11.604	8.604-14.604	11.603	0.005
* 27 Naphthalene-d8	11.689	11.697	11.689	11.689	11.689	11.689	11.689	11.689	8.689-14.689	11.690	0.003
28 Naphthalene	11.735	11.735	11.728	11.736	11.728	11.728	11.728	11.735	8.735-14.735	11.731	0.004
29 4-Chloroaniline	11.859	11.867	11.852	11.859	11.851	11.852	11.851	11.859	8.859-14.859	11.856	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
30 Hexachlorobutadiene	12.098	12.099	12.099	12.099	12.099	12.099	12.099	12.098	9.098-15.098	12.099	0.000
31 4-Chloro-3-methylpheno	12.818	12.826	12.811	12.818	12.811	12.811	12.811	12.818	9.818-15.818	12.815	0.006
32 2-Methylnaphthalene	13.135	13.143	13.136	13.136	13.136	13.136	13.136	13.135	10.135-16.135	13.137	0.003
33 Hexachlorocyclopentadi	13.607	13.615	13.608	13.608	13.608	13.608	13.608	13.607	10.607-16.607	13.609	0.003
34 2,4,6-Trichlorophenol	13.754	13.762	13.755	13.755	13.755	13.755	13.755	13.754	10.754-16.754	13.756	0.003
35 2,4,5-Trichlorophenol	13.824	13.840	13.825	13.832	13.825	13.825	13.825	13.824	10.824-16.824	13.828	0.006
36 2-Fluorobiphenyl	13.917	13.925	13.917	13.917	13.917	13.917	13.917	13.917	10.917-16.917	13.918	0.003
37 2-Chloronaphthalene	14.134	14.142	14.134	14.134	14.134	14.134	14.134	14.134	11.134-17.134	14.135	0.003
38 2-Nitroaniline	14.389	14.405	14.382	14.389	14.382	14.382	14.382	14.389	11.389-17.389	14.387	0.009
39 Dimethylphthalate	14.822	14.838	14.815	14.823	14.815	14.815	14.815	14.822	11.822-17.822	14.821	0.009
40 Acenaphthylene	15.008	15.016	15.009	15.009	15.009	15.009	15.009	15.008	12.008-18.008	15.010	0.003
41 2,6-Dinitrotoluene	14.954	14.970	14.955	14.962	14.955	14.955	14.955	14.954	11.954-17.954	14.958	0.006
42 Acenaphthene-d10	15.325	15.333	15.326	15.326	15.326	15.326	15.326	15.325	12.325-18.325	15.327	0.003
43 3-Nitroaniline	15.240	15.264	15.233	15.248	15.233	15.233	15.233	15.240	12.240-18.240	15.241	0.012
44 Acenaphthene	15.395	15.403	15.388	15.395	15.388	15.388	15.388	15.395	12.395-18.395	15.392	0.006
45 2,4-Dinitrophenol	15.457	15.480	15.442	15.465	15.442	15.450	15.442	15.457	12.457-18.457	15.454	0.015
46 Dibenzofuran	15.720	15.735	15.712	15.720	15.712	15.720	15.712	15.720	12.720-18.720	15.719	0.008
47 4-Nitrophenol	15.550	15.573	15.542	15.558	15.542	15.542	15.542	15.550	12.550-18.550	15.550	0.012
48 2,4-Dinitrotoluene	15.766	15.789	15.759	15.774	15.759	15.759	15.759	15.766	12.766-18.766	15.766	0.012
49 Fluorene	16.438	16.446	16.431	16.439	16.431	16.431	16.431	16.438	13.438-19.438	16.435	0.006
50 Diethylphthalate	16.284	16.307	16.277	16.292	16.277	16.277	16.277	16.284	13.284-19.284	16.284	0.012
51 4-Chlorophenyl-phenyle	16.423	16.431	16.423	16.423	16.423	16.423	16.423	16.423	13.423-19.423	16.424	0.003
52 4-Nitroaniline	16.516	16.554	16.501	16.524	16.501	16.501	16.501	16.516	13.516-19.516	16.514	0.020
53 4,6-Dinitro-2-methylph	16.616	16.639	16.601	16.624	16.601	16.609	16.601	16.616	13.616-19.616	16.613	0.015

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
54 N-Nitrosodiphenylamine	16.670	16.685	16.663	16.670	16.670	16.670	16.663	16.670	13.670-19.670	16.670	0.008
\$ 55 2,4,6-Tribromophenol	16.971	16.978	16.971	16.971	16.963	16.963	16.963	16.971	13.971-19.971	16.969	0.006
56 4-Bromophenyl-phenylet	17.433	17.433	17.426	17.434	17.426	17.426	17.426	17.433	14.433-20.433	17.429	0.004
57 Hexachlorobenzene	17.750	17.758	17.750	17.750	17.750	17.750	17.750	17.750	14.750-20.750	17.751	0.003
58 Pentachlorophenol	18.106	18.114	18.107	18.106	18.107	18.099	18.107	18.106	15.106-21.106	18.106	0.004
* 59 Phenanthrene-d10	18.377	18.377	18.370	18.377	18.370	18.370	18.370	18.377	15.377-21.377	18.373	0.004
60 Phenanthrene	18.423	18.431	18.416	18.424	18.416	18.416	18.416	18.423	15.423-21.423	18.420	0.006
61 Anthracene	18.516	18.524	18.509	18.517	18.509	18.509	18.509	18.516	15.516-21.516	18.513	0.006
62 Carbazole	18.841	18.849	18.834	18.841	18.834	18.834	18.834	18.841	15.841-21.841	18.838	0.006
63 Di-n-butylphthalate	19.630	19.630	19.631	19.631	19.631	19.631	19.631	19.630	16.630-22.630	19.631	0.000
64 Fluoranthene	20.806	20.806	20.799	20.807	20.799	20.799	20.799	20.806	17.806-23.806	20.802	0.004
65 Pyrene	21.232	21.232	21.225	21.224	21.224	21.225	21.225	21.232	18.232-24.232	21.227	0.004
\$ 66 Terphenyl-d14	21.510	21.511	21.503	21.503	21.503	21.503	21.503	21.510	18.510-24.510	21.505	0.004
67 Butylbenzylphthalate	22.424	22.424	22.424	22.424	22.424	22.424	22.424	22.424	19.424-25.424	22.424	0.000
68 Benzo(a)anthracene	23.384	23.392	23.385	23.385	23.377	23.385	23.385	23.384	20.384-26.384	23.384	0.004
* 69 Chrysene-d12	23.415	23.423	23.408	23.415	23.408	23.408	23.408	23.415	20.415-26.415	23.412	0.006
70 3,3'-Dichlorobenzidine	23.330	23.346	23.330	23.338	23.330	23.330	23.330	23.330	20.330-26.330	23.334	0.006
71 Chrysene	23.462	23.470	23.454	23.462	23.454	23.454	23.454	23.462	20.462-26.462	23.459	0.006
72 bis(2-Ethylhexyl)phtha	23.446	23.446	23.447	23.446	23.439	23.447	23.447	23.446	20.446-26.446	23.445	0.003
73 Di-n-octylphthalate	24.452	24.453	24.445	24.453	24.445	24.445	24.445	24.452	21.452-27.452	24.448	0.004
74 Benzo(b)fluoranthene	25.312	25.320	25.297	25.312	25.297	25.305	25.305	25.312	22.312-28.312	25.307	0.009
75 Benzo(k)fluoranthene	25.358	25.366	25.343	25.359	25.343	25.351	25.343	25.358	22.358-28.358	25.352	0.009
187 Total Benzofluoranthen	25.358	25.366	25.297	25.359	25.343	25.351	25.305	25.358	22.358-28.358	25.340	0.028
76 Benzo(a)pyrene	25.985	26.001	25.978	25.986	25.978	25.978	25.978	25.985	22.985-28.985	25.984	0.009

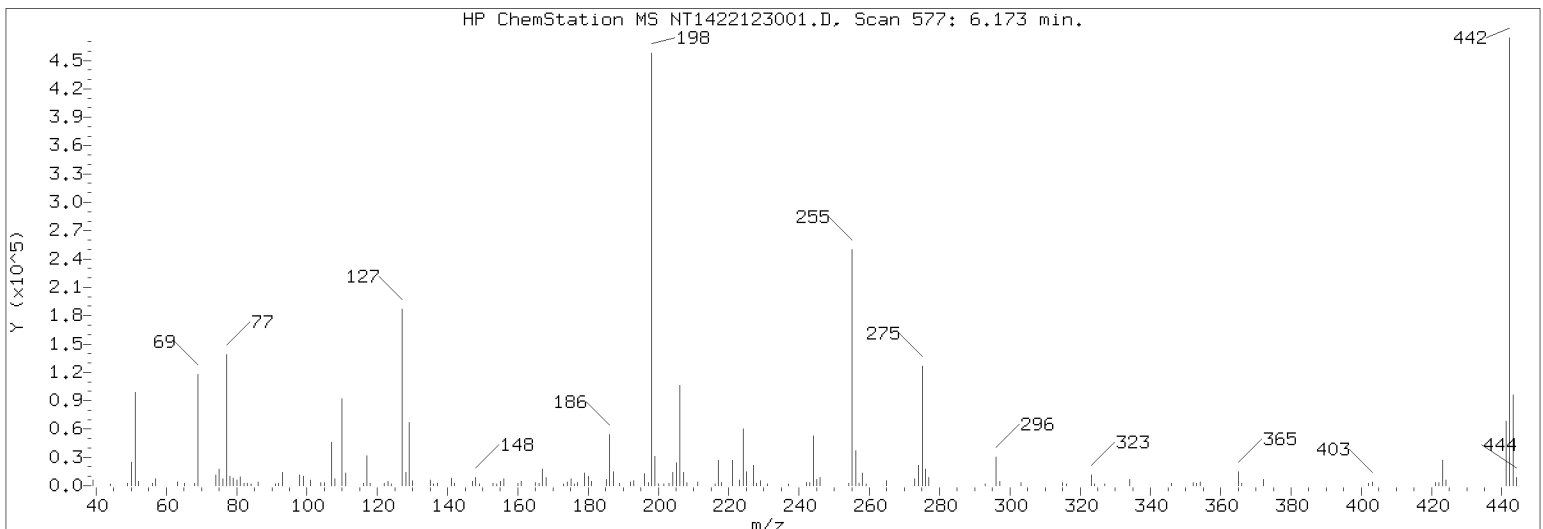
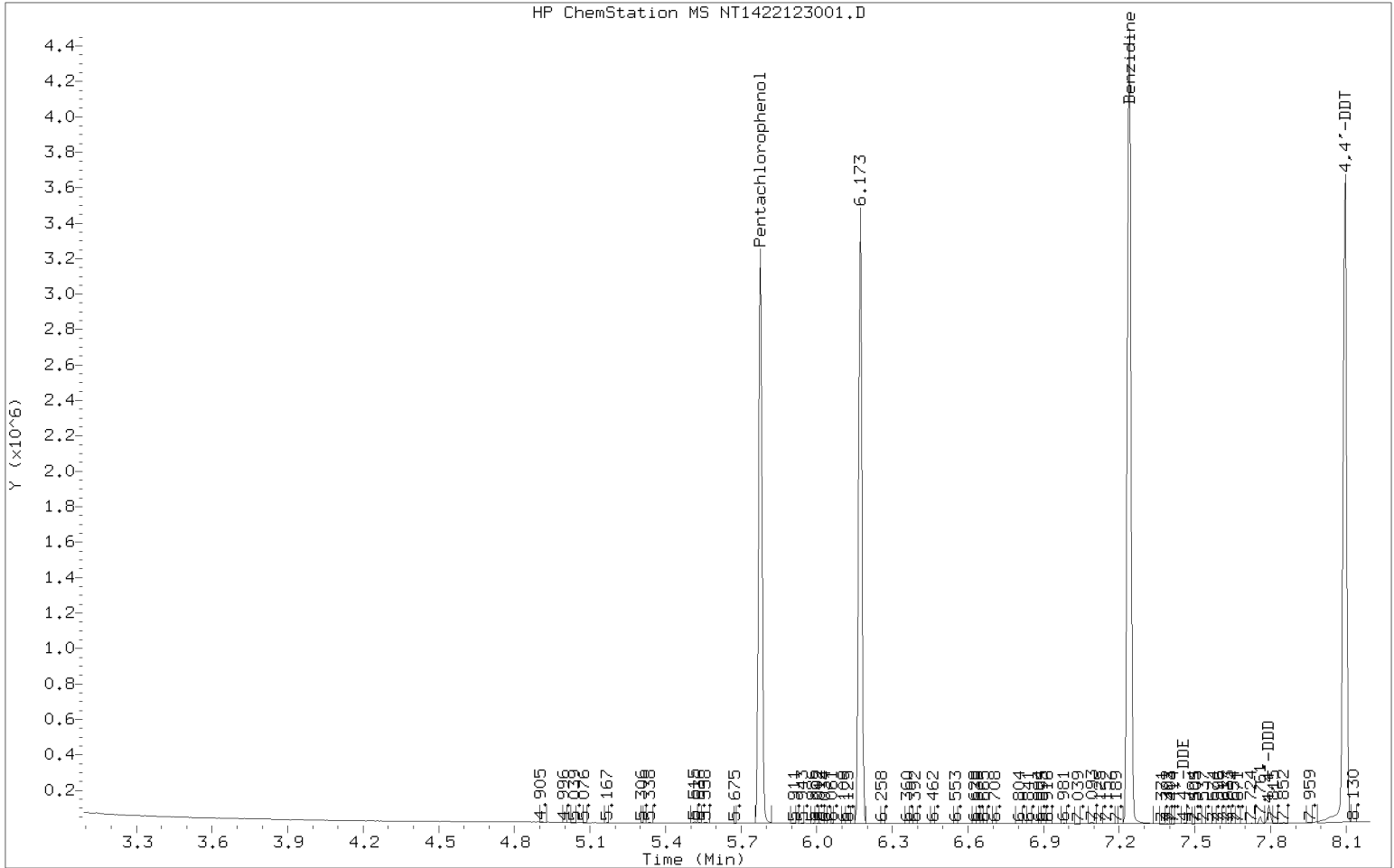
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

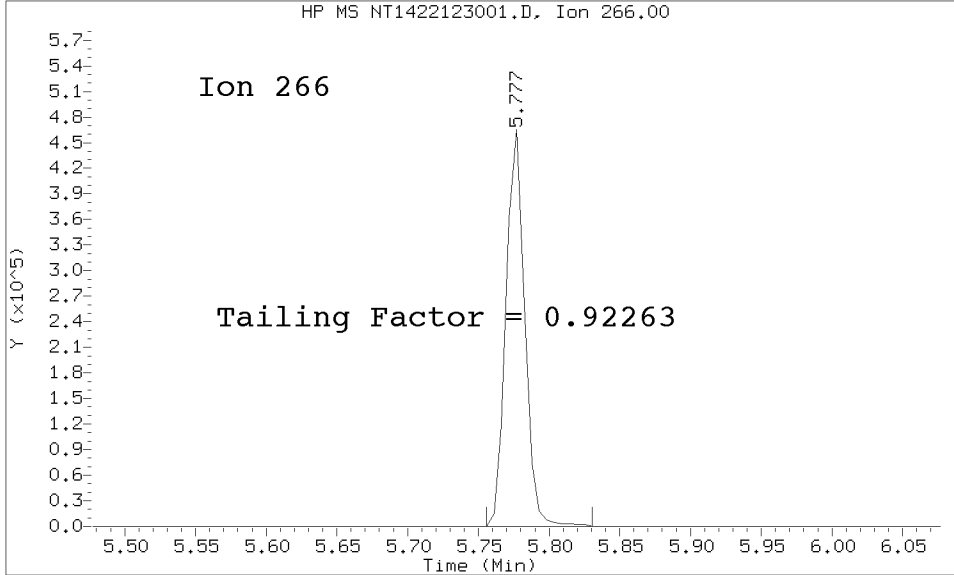
Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 77 Perylene-d12	26.102	26.110	26.102	26.102	26.102	26.102	26.102	26.102	23.102-29.102	26.103	0.003
78 Indeno(1,2,3-cd)pyrene	28.869	28.893	28.854	28.870	28.854	28.854	28.854	28.869	25.869-31.869	28.864	0.015
79 Dibenzo(a,h)anthracene	28.877	28.908	28.862	28.885	28.862	28.862	28.862	28.877	25.877-31.877	28.874	0.018
80 Benzo(g,h,i)perylene	29.685	29.716	29.662	29.693	29.662	29.670	29.662	29.685	26.685-32.685	29.678	0.021
\$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
\$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
\$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
\$ 88 Dibenzo(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
\$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
90 N-Nitrosodimethylamine	4.749	4.765	4.750	4.757	4.750	4.750	4.750	4.749	1.749-7.749	4.753	0.006
91 Aniline	8.635	8.643	8.627	8.635	8.627	8.627	8.627	8.635	5.635-11.635	8.632	0.006
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
93 Benzidine	21.031	21.031	21.023	21.023	21.023	21.023	21.023	21.031	18.031-24.031	21.025	0.004
\$ 95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
103 Pyridine	4.780	4.780	4.819	4.781	4.804	4.788	4.796	4.780	1.780-7.780	4.793	0.015
188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: VTS
Sample Info: SKL0355-TUN1 SKL0355-TUN1
Report Date: 12/31/2022 15:11



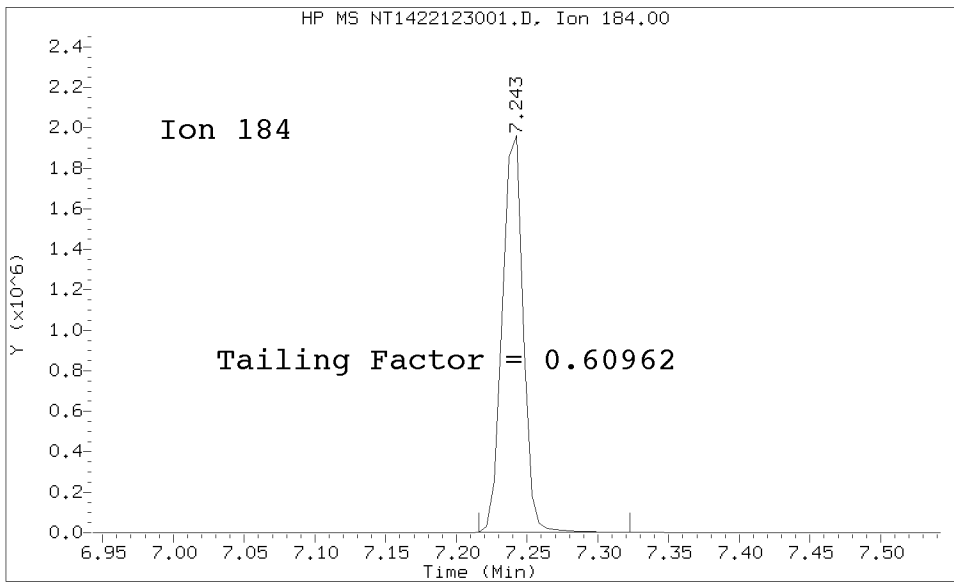
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Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol

=====
Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

Data File: NT1422123001.D
 Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
 Location of Maximum: 442.00
 Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		

Data File: \\target\share\chem3\nt14.1\20221230.6\NT1422123002.D

Date: 30-DEC-2022 08:06

Client ID:

Sample Info: SKL0365-CAL5

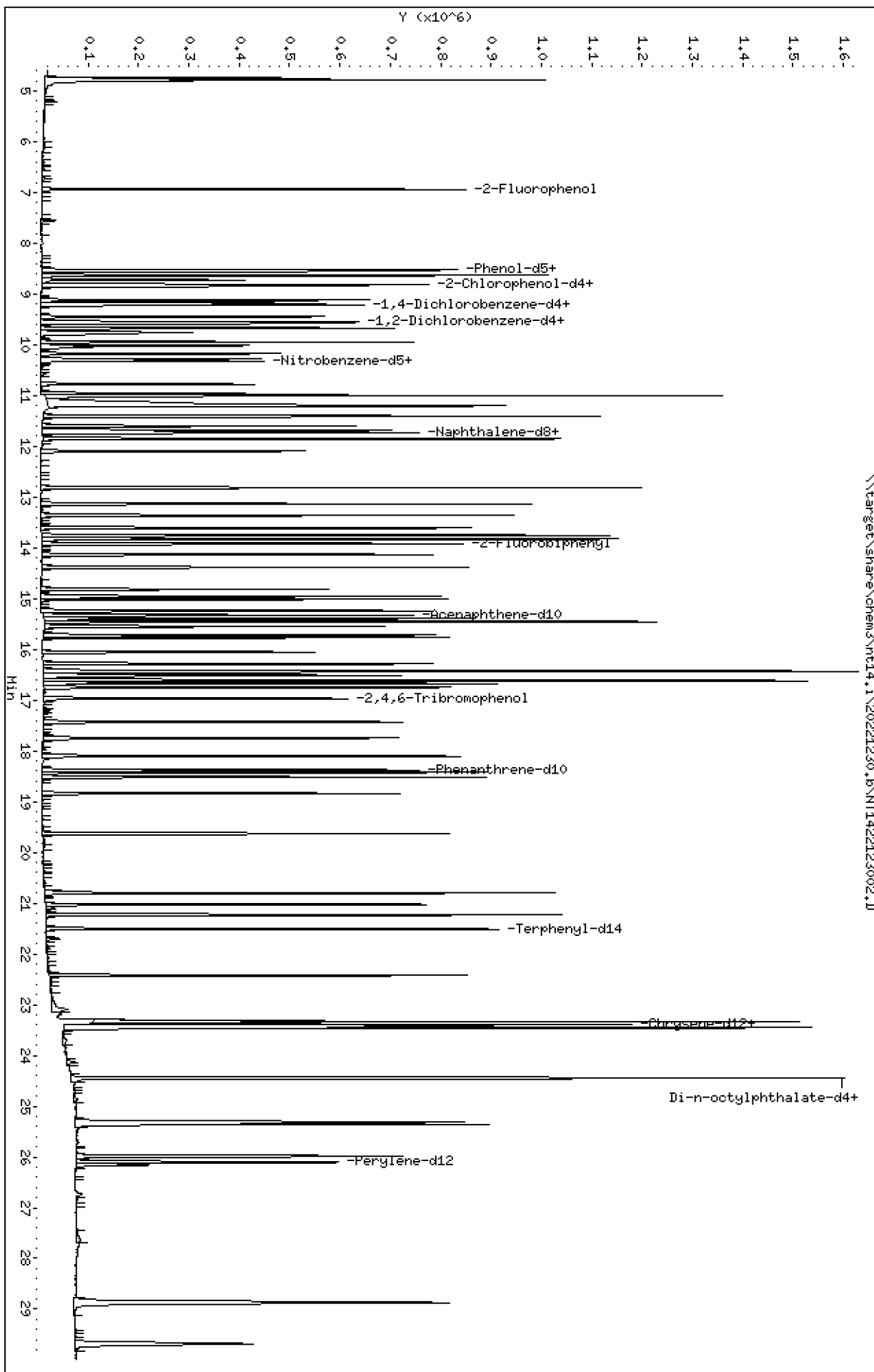
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
 Lab Smp Id: SKL0355-CAL5
 Inj Date : 30-DEC-2022 08:06 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 2 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.934	6.934	(0.755)	351803	7.50000	7.272
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	445493	7.50000	7.451
3 Phenol	94		8.549	8.549	(0.931)	320287	5.00000	4.714
\$ 5 2-Chlorophenol-d4	132		8.820	8.820	(0.960)	366986	7.50000	7.308
4 Bis(2-Chloroethyl)ether	93		8.719	8.719	(0.949)	213068	5.00000	4.553
6 2-Chlorophenol	128		8.843	8.843	(0.963)	260619	5.00000	4.726
7 1,3-Dichlorobenzene	146		9.121	9.121	(0.993)	267651	5.00000	4.577
* 8 1,4-Dichlorobenzene-d4	152		9.183	9.183	(1.000)	151013	4.00000	
9 1,4-Dichlorobenzene	146		9.214	9.214	(1.003)	253252	5.00000	4.571
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	160386	5.00000	4.673
12 1,2-Dichlorobenzene	146		9.571	9.571	(1.042)	250859	5.00000	4.617
11 Benzyl alcohol	108		9.447	9.447	(1.029)	153862	5.00000	5.087
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	74627	5.00000	4.738 (M)
13 2-Methylphenol	108		9.672	9.672	(1.053)	237608	5.00000	4.813
17 Hexachloroethane	117		10.177	10.177	(1.108)	95799	5.00000	4.702
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	147756	5.00000	4.913
15 4-Methylphenol	108		9.944	9.944	(1.083)	255052	5.00000	4.898
\$ 18 Nitrobenzene-d5	82		10.285	10.285	(0.880)	230684	5.00000	4.935
19 Nitrobenzene	77		10.316	10.316	(0.883)	221275	5.00000	4.767
20 Isophorone	82		10.774	10.774	(0.922)	300513	5.00000	5.079
21 2-Nitrophenol	139		10.953	10.953	(0.937)	151231	5.00000	5.100
22 2,4-Dimethylphenol	107		10.999	10.999	(0.941)	456971	10.0000	9.432
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	211797	5.00000	4.602
24 Benzoic acid	105		11.201	11.201	(0.958)	622705	20.0000	20.16
25 2,4-Dichlorophenol	162		11.410	11.410	(0.976)	392225	10.0000	9.604
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	199770	5.00000	4.524
* 27 Naphthalene-d8	136		11.688	11.688	(1.000)	553510	4.00000	
28 Naphthalene	128		11.735	11.735	(1.004)	628260	5.00000	4.612
29 4-Chloroaniline	127		11.858	11.858	(1.015)	552775	10.0000	9.840
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	102421	5.00000	4.675
31 4-Chloro-3-methylphenol	107		12.818	12.818	(1.097)	393115	10.0000	10.20
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	472882	5.00000	4.733
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	230983	10.0000	10.01

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	264056	10.0000	10.36
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	302784	10.0000	10.29
§ 36 2-Fluorobiphenyl	172	13.916	13.916	(0.908)	476320	5.00000	4.639
37 2-Chloronaphthalene	162	14.133	14.133	(0.922)	400051	5.00000	4.580
38 2-Nitroaniline	65	14.389	14.389	(0.939)	234280	10.0000	10.20
39 Dimethylphthalate	163	14.822	14.822	(0.967)	408025	5.00000	4.737
40 Acenaphthylene	152	15.008	15.008	(0.979)	624847	5.00000	4.691
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	194171	10.0000	9.989
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	305411	4.00000	
43 3-Nitroaniline	138	15.240	15.240	(0.994)	235735	10.0000	9.978
44 Acenaphthene	153	15.394	15.394	(1.005)	375245	5.00000	4.542
45 2,4-Dinitrophenol	184	15.456	15.456	(1.009)	324987	20.0000	18.84
46 Dibenzofuran	168	15.719	15.719	(1.026)	570695	5.00000	4.606
47 4-Nitrophenol	109	15.549	15.549	(1.015)	115297	10.0000	9.968
48 2,4-Dinitrotoluene	165	15.765	15.765	(1.029)	268356	10.0000	10.06
50 Diethylphthalate	149	16.283	16.283	(1.063)	583945	5.00000	4.988
49 Fluorene	166	16.438	16.438	(1.073)	583736	5.00000	4.429
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	306309	5.00000	4.747
52 4-Nitroaniline	138	16.515	16.515	(1.078)	284222	10.0000	9.771
53 4,6-Dinitro-2-methylphenol	198	16.615	16.615	(0.904)	421202	20.0000	19.53
54 N-Nitrosodiphenylamine	169	16.669	16.669	(0.907)	382858	5.00000	4.538
§ 55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	110315	7.50000	7.408
56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	148860	5.00000	4.659
57 Hexachlorobenzene	284	17.749	17.749	(0.966)	158613	5.00000	4.524
58 Pentachlorophenol	266	18.106	18.106	(0.985)	157801	10.0000	9.877
* 59 Phenanthrene-d10	188	18.376	18.376	(1.000)	491708	4.00000	
60 Phenanthrene	178	18.423	18.423	(1.003)	581412	5.00000	4.535
61 Anthracene	178	18.516	18.516	(1.008)	593247	5.00000	4.847
62 Carbazole	167	18.841	18.841	(1.025)	541939	5.00000	4.580
63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	680520	5.00000	4.895
64 Fluoranthene	202	20.806	20.806	(0.889)	665741	5.00000	4.868
65 Pyrene	202	21.231	21.231	(0.907)	689116	5.00000	4.792
§ 66 Terphenyl-d14	244	21.510	21.510	(0.919)	488441	5.00000	4.791
67 Butylbenzylphthalate	149	22.423	22.423	(0.958)	283059	5.00000	5.125
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	617509	5.00000	4.799
* 69 Chrysene-d12	240	23.415	23.415	(1.000)	424740	4.00000	
70 3,3'-Dichlorobenzidine	252	23.329	23.329	(0.996)	489648	15.0000	12.43
71 Chrysene	228	23.461	23.461	(1.002)	568172	5.00000	4.675
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	393425	5.00000	5.172
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	684951	4.00000	
73 Di-n-octylphthalate	149	24.452	24.452	(1.001)	732863	5.00000	4.457
74 Benzo(b)fluoranthene	252	25.311	25.311	(0.970)	620349	5.00000	4.995
75 Benzo(k)fluoranthene	252	25.358	25.358	(0.972)	589803	5.00000	4.666
76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	510208	5.00000	4.942
* 77 Perylene-d12	264	26.101	26.101	(1.000)	395150	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.869	28.869	(1.106)	570329	5.00000	4.860
79 Dibenzo(a,h)anthracene	278	28.876	28.876	(1.106)	475587	5.00000	4.769
80 Benzo(g,h,i)perylene	276	29.684	29.684	(1.137)	463834	5.00000	4.718 (M)
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	321667	10.0000	9.654
91 Aniline	93	8.634	8.634	(0.940)	624940	10.0000	9.447
93 Benzidine	184	21.030	21.030	(0.898)	482728	10.0000	8.933
103 Pyridine	79	4.780	4.780	(0.521)	500593	5.00000	4.728
105 1-methylnaphthalene	142	13.359	13.359	(1.143)	457429	5.00000	4.765
111 Azobenzene (1,2-DP-Hydrazine)	77	16.746	16.746	(1.093)	538050	5.00000	4.744

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.358	25.358	(0.972)	1153692	10.0000	9.609
120 2,3,4,6-Tetrachlorophenol	232		16.051	16.051	(1.047)	110018	5.00000	4.910

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123002.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	151013	0.00
27 Naphthalene-d8	553510	276755	1107020	553510	0.00
42 Acenaphthene-d10	305411	152706	610822	305411	0.00
59 Phenanthrene-d10	491708	245854	983416	491708	0.00
69 Chrysene-d12	424740	212370	849480	424740	0.00
134 Di-n-octylphthala	684951	342476	1369902	684951	0.00
77 Perylene-d12	395150	197575	790300	395150	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123002.D

Lab ID: SKL0355-CAL5
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 08:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

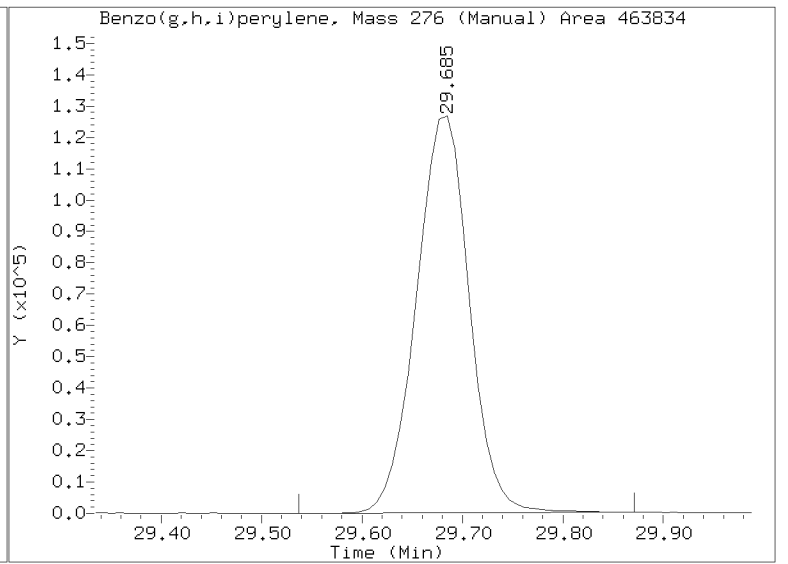
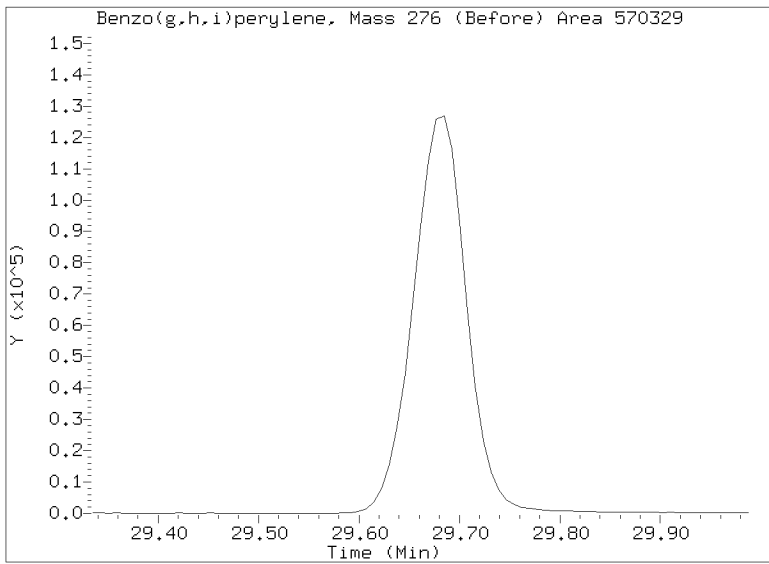
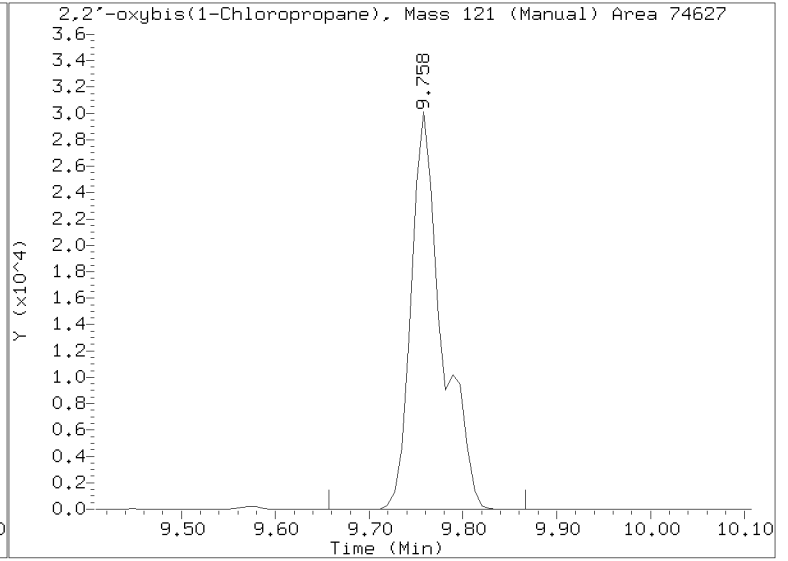
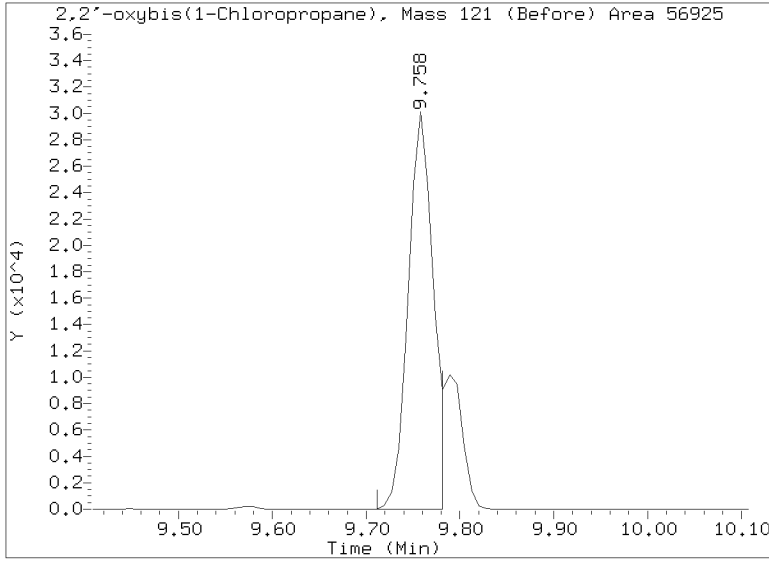
RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123002.D
Injection Date: 30-DEC-2022 08:06
Lab ID:SKL0355-CAL5 Client ID:
Report Date: 01/04/2023 08:21



Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123003.D

Date: 30-DEC-2022 08:42

Client ID:

Sample Info: SKL0355-CAL7

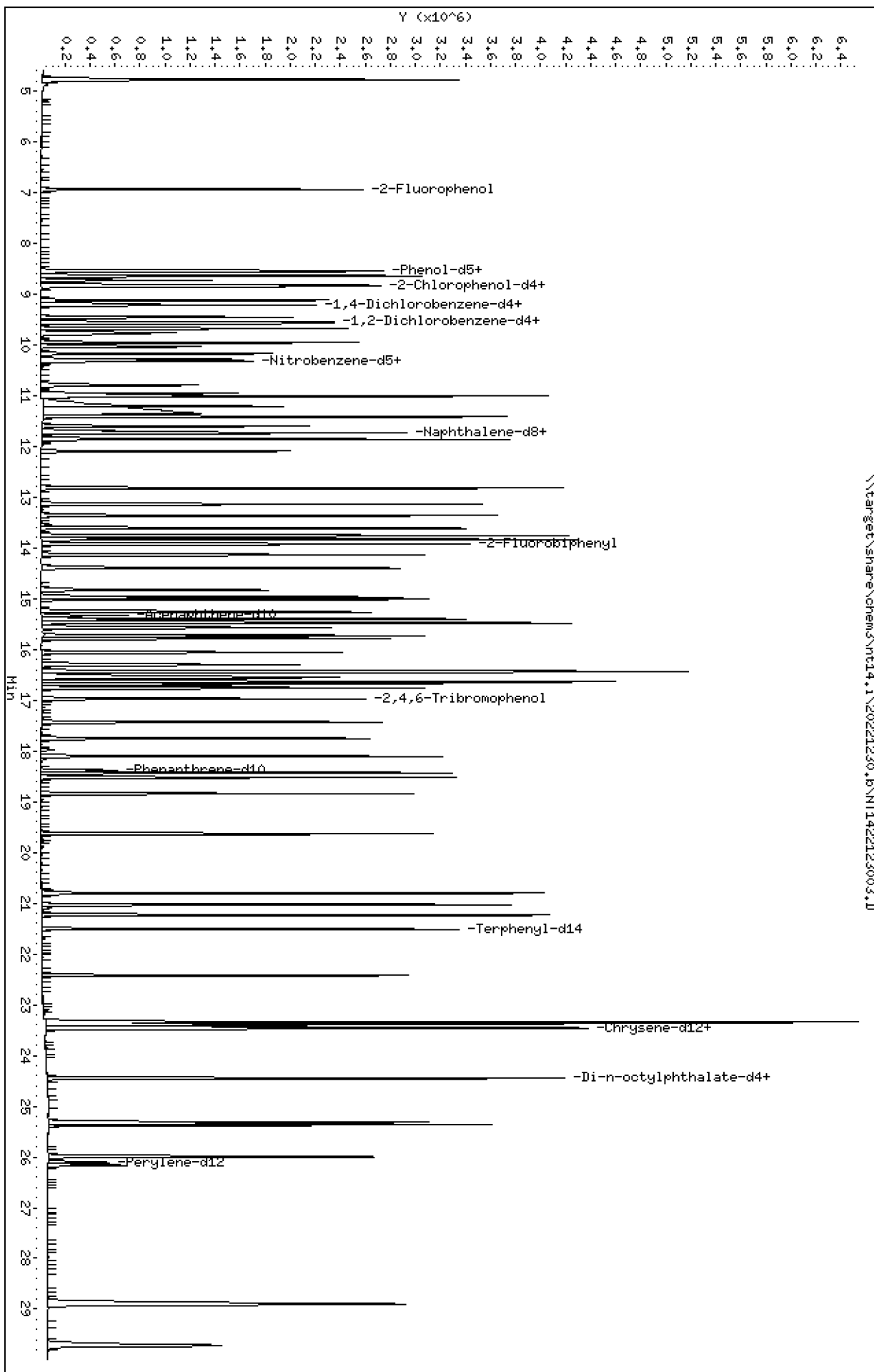
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20221230,6\NT1422123003.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D
 Lab Smp Id: SKL0355-CAL7
 Inj Date : 30-DEC-2022 08:42 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL7
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 3 Calibration Sample, Level: 7
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.942	6.934	(0.756)	1314358	30.0000	28.63
\$ 2 Phenol-d5	99		8.542	8.526	(0.930)	1744514	30.0000	30.75
3 Phenol	94		8.565	8.549	(0.933)	1204418	20.0000	18.68
\$ 5 2-Chlorophenol-d4	132		8.827	8.820	(0.961)	1444276	30.0000	30.31
4 Bis(2-Chloroethyl)ether	93		8.727	8.719	(0.950)	834762	20.0000	18.80
6 2-Chlorophenol	128		8.851	8.843	(0.964)	1023863	20.0000	19.57
7 1,3-Dichlorobenzene	146		9.121	9.121	(0.993)	1031468	20.0000	18.59
* 8 1,4-Dichlorobenzene-d4	152		9.183	9.183	(1.000)	143300	4.00000	
9 1,4-Dichlorobenzene	146		9.222	9.214	(1.004)	968926	20.0000	18.43
\$ 10 1,2-Dichlorobenzene-d4	152		9.556	9.548	(1.041)	641667	20.0000	19.70
12 1,2-Dichlorobenzene	146		9.579	9.571	(1.043)	968627	20.0000	18.79
11 Benzyl alcohol	108		9.463	9.447	(1.030)	617861	20.0000	21.53
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	293591	20.0000	19.64 (M)
13 2-Methylphenol	108		9.680	9.672	(1.054)	916543	20.0000	19.57
17 Hexachloroethane	117		10.177	10.177	(1.108)	387085	20.0000	20.02
16 N-Nitroso-di-n-propylamine	70		10.037	10.014	(1.093)	572628	20.0000	20.07
15 4-Methylphenol	108		9.960	9.944	(1.085)	975801	20.0000	19.75
\$ 18 Nitrobenzene-d5	82		10.293	10.285	(0.880)	927822	20.0000	21.65
19 Nitrobenzene	77		10.324	10.316	(0.883)	871409	20.0000	20.47
20 Isophorone	82		10.798	10.774	(0.923)	1359858	20.0000	25.07
21 2-Nitrophenol	139		10.961	10.953	(0.937)	663566	20.0000	19.98
22 2,4-Dimethylphenol	107		11.015	10.999	(0.942)	1634136	40.0000	36.78
23 Bis(2-Chloroethoxy)methane	93		11.209	11.201	(0.958)	821530	20.0000	19.47
24 Benzoic acid	105		11.356	11.201	(0.971)	2775564	80.0000	79.85
25 2,4-Dichlorophenol	162		11.418	11.410	(0.976)	1523761	40.0000	40.69
26 1,2,4-Trichlorobenzene	180		11.611	11.604	(0.993)	776910	20.0000	19.19
* 27 Naphthalene-d8	136		11.696	11.688	(1.000)	507556	4.00000	
28 Naphthalene	128		11.735	11.735	(1.003)	2397760	20.0000	19.20
29 4-Chloroaniline	127		11.866	11.858	(1.015)	2088829	40.0000	40.55
30 Hexachlorobutadiene	225		12.098	12.098	(1.034)	413256	20.0000	20.57
31 4-Chloro-3-methylphenol	107		12.826	12.818	(1.097)	1530587	40.0000	43.31
32 2-Methylnaphthalene	142		13.143	13.135	(1.124)	1905033	20.0000	20.79
33 Hexachlorocyclopentadiene	237		13.615	13.607	(0.888)	1071819	40.0000	48.85

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.762	13.754	(0.898)	1158685	40.0000	47.82
35 2,4,5-Trichlorophenol	196	13.839	13.824	(0.903)	1269438	40.0000	45.40
\$ 36 2-Fluorobiphenyl	172	13.924	13.916	(0.908)	1948462	20.0000	19.96
37 2-Chloronaphthalene	162	14.141	14.133	(0.922)	1632344	20.0000	19.66
38 2-Nitroaniline	65	14.404	14.389	(0.939)	934765	40.0000	42.82
39 Dimethylphthalate	163	14.838	14.822	(0.968)	1600487	20.0000	19.55
40 Acenaphthylene	152	15.016	15.008	(0.979)	2471514	20.0000	19.52
41 2,6-Dinitrotoluene	165	14.969	14.954	(0.976)	815829	40.0000	44.16
* 42 Acenaphthene-d10	164	15.333	15.325	(1.000)	290278	4.00000	
43 3-Nitroaniline	138	15.263	15.240	(0.995)	1013527	40.0000	45.14
44 Acenaphthene	153	15.402	15.394	(1.005)	1547905	20.0000	19.71
45 2,4-Dinitrophenol	184	15.480	15.456	(1.010)	1614322	80.0000	79.72
46 Dibenzofuran	168	15.735	15.719	(1.026)	2343486	20.0000	19.90
47 4-Nitrophenol	109	15.572	15.549	(1.016)	476700	40.0000	39.93
48 2,4-Dinitrotoluene	165	15.789	15.765	(1.030)	1139712	40.0000	44.96
50 Diethylphthalate	149	16.307	16.283	(1.064)	2390187	20.0000	21.48
49 Fluorene	166	16.446	16.438	(1.073)	2528345	20.0000	20.18
51 4-Chlorophenyl-phenylether	204	16.430	16.423	(1.072)	1222294	20.0000	19.93
52 4-Nitroaniline	138	16.554	16.515	(1.080)	1201405	40.0000	39.85
53 4,6-Dinitro-2-methylphenol	198	16.639	16.615	(0.905)	1812002	80.0000	79.86
54 N-Nitrosodiphenylamine	169	16.685	16.669	(0.908)	1494034	20.0000	20.57
\$ 55 2,4,6-Tribromophenol	330	16.978	16.970	(1.107)	504769	30.0000	29.96
56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	617661	20.0000	22.46
57 Hexachlorobenzene	284	17.757	17.749	(0.966)	615292	20.0000	20.39
58 Pentachlorophenol	266	18.114	18.106	(0.986)	704713	40.0000	39.92
* 59 Phenanthrene-d10	188	18.377	18.376	(1.000)	423275	4.00000	
60 Phenanthrene	178	18.431	18.423	(1.003)	2240686	20.0000	20.30
61 Anthracene	178	18.524	18.516	(1.008)	2306983	20.0000	21.90
62 Carbazole	167	18.849	18.841	(1.026)	2303484	20.0000	22.62
63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	2864226	20.0000	19.97
64 Fluoranthene	202	20.806	20.806	(0.888)	2738659	20.0000	21.27
65 Pyrene	202	21.232	21.231	(0.906)	2836592	20.0000	20.95
\$ 66 Terphenyl-d14	244	21.510	21.510	(0.918)	1863099	20.0000	19.41
67 Butylbenzylphthalate	149	22.424	22.423	(0.957)	1105661	20.0000	19.98
68 Benzo(a)anthracene	228	23.392	23.384	(0.999)	2482996	20.0000	20.50
* 69 Chrysene-d12	240	23.423	23.415	(1.000)	399899	4.00000	
70 3,3'-Dichlorobenzidine	252	23.345	23.329	(0.997)	2725590	60.0000	73.50
71 Chrysene	228	23.469	23.461	(1.002)	2299977	20.0000	20.10
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	1659616	20.0000	21.74
* 134 Di-n-octylphthalate-d4	153	24.444	24.437	(1.000)	687276	4.00000	
73 Di-n-octylphthalate	149	24.452	24.452	(1.000)	2971733	20.0000	18.01
74 Benzo(b)fluoranthene	252	25.319	25.311	(0.970)	2547081	20.0000	22.53
75 Benzo(k)fluoranthene	252	25.366	25.358	(0.972)	2532408	20.0000	22.01
76 Benzo(a)pyrene	252	26.001	25.985	(0.996)	2177478	20.0000	23.17
* 77 Perylene-d12	264	26.109	26.101	(1.000)	359748	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.892	28.869	(1.107)	2410735	20.0000	22.56
79 Dibenzo(a,h)anthracene	278	28.908	28.876	(1.107)	2057986	20.0000	22.67
80 Benzo(g,h,i)perylene	276	29.715	29.684	(1.138)	1965002	20.0000	21.95
90 N-Nitrosodimethylamine	74	4.764	4.749	(0.519)	1050073	40.0000	33.21
91 Aniline	93	8.642	8.634	(0.941)	2373007	40.0000	37.80
93 Benzidine	184	21.030	21.030	(0.898)	2468777	40.0000	39.84
103 Pyridine	79	4.780	4.780	(0.521)	1589226	20.0000	15.82
105 1-methylnaphthalene	142	13.367	13.359	(1.143)	1846760	20.0000	20.98
111 Azobenzene (1,2-DP-Hydrazine)	77	16.762	16.746	(1.093)	1983985	20.0000	18.40

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.366	25.358	(0.972)	4865104	40.0000	44.51
120 2,3,4,6-Tetrachlorophenol	232		16.059	16.051	(1.047)	511264	20.0000	19.96

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123003.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL7
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	143300	-5.11
27 Naphthalene-d8	553510	276755	1107020	507556	-8.30
42 Acenaphthene-d10	305411	152706	610822	290278	-4.95
59 Phenanthrene-d10	491708	245854	983416	423275	-13.92
69 Chrysene-d12	424740	212370	849480	399899	-5.85
134 Di-n-octylphthala	684951	342476	1369902	687276	0.34
77 Perylene-d12	395150	197575	790300	359748	-8.96

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.70	0.07
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.05
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.03
77 Perylene-d12	26.10	25.60	26.60	26.11	0.03

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

REVIEW SUMMARY FOR FILE - NT1422123003.D

Lab ID: SKL0355-CAL7
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 08:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.971	0.958	0.0126	Benzoic acid

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

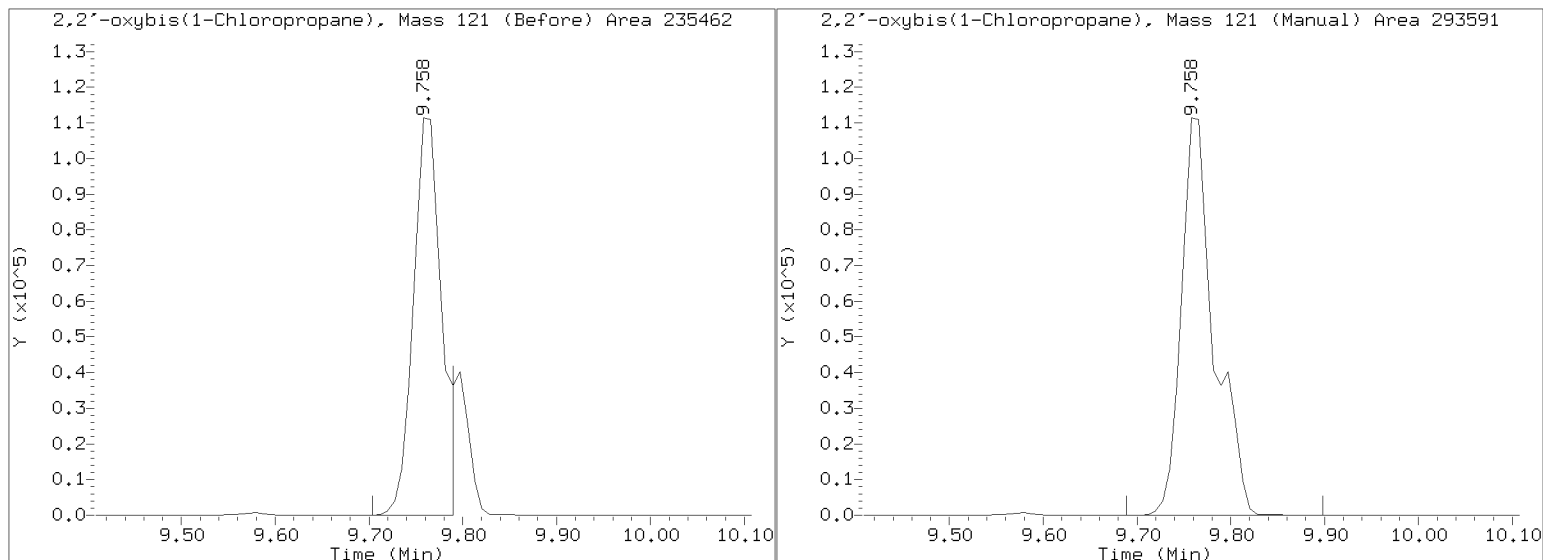
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123003.D

Injection Date: 30-DEC-2022 08:42

Lab ID: SKL0355-CAL7 Client ID:

Report Date: 01/04/2023 08:09



Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123004.D

Date: 30-DEC-2022 09:18

Client ID:

Sample Info: SKL0355-CAL1

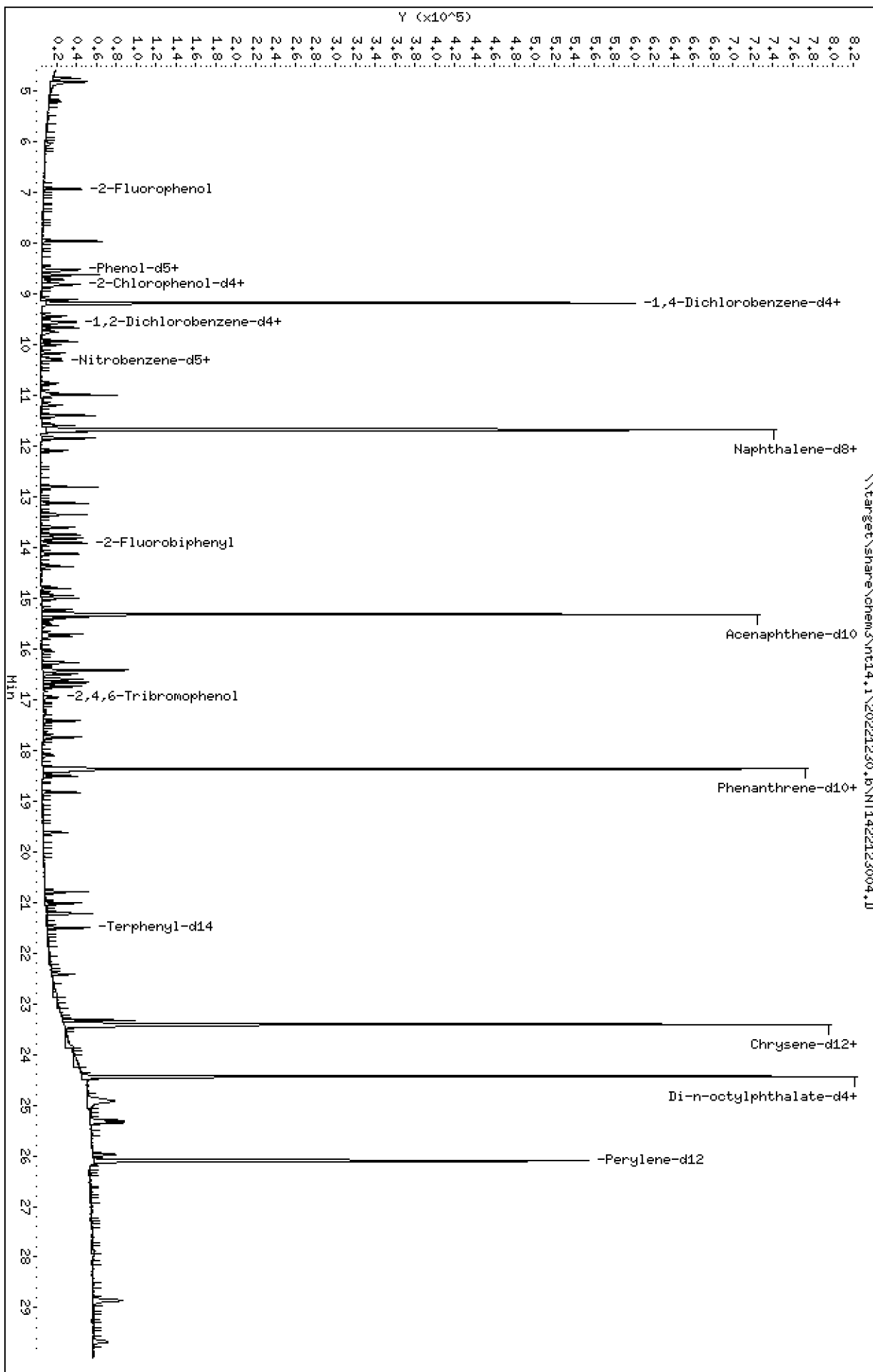
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
 Lab Smp Id: SKL0355-CAL1
 Inj Date : 30-DEC-2022 09:18 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 4 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	17139	0.30000	0.3409
\$ 2 Phenol-d5	99		8.519	8.526	(0.928)	19904	0.30000	0.3203
3 Phenol	94		8.542	8.549	(0.930)	17648	0.20000	0.2499
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	17183	0.30000	0.3293
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	12124	0.20000	0.2493
6 2-Chlorophenol	128		8.843	8.843	(0.963)	13841	0.20000	0.2415
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	15130	0.20000	0.2489
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	156948	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	14468	0.20000	0.2513
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	8399	0.20000	0.2355
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	13693	0.20000	0.2425
11 Benzyl alcohol	108		9.448	9.447	(1.029)	6611	0.20000	0.2103
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	4140	0.20000	0.2529 (M)
13 2-Methylphenol	108		9.673	9.672	(1.053)	12169	0.20000	0.2372
17 Hexachloroethane	117		10.177	10.177	(1.108)	5046	0.20000	0.2383
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	6747	0.20000	0.2159
15 4-Methylphenol	108		9.937	9.944	(1.082)	12584	0.20000	0.2325
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	10272	0.20000	0.2134
19 Nitrobenzene	77		10.317	10.316	(0.883)	11076	0.20000	0.2317
20 Isophorone	82		10.767	10.774	(0.921)	11888	0.20000	0.1951
21 2-Nitrophenol	139		10.953	10.953	(0.937)	6191	0.20000	0.2120
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	23851	0.40000	0.4780
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	11499	0.20000	0.2426
24 Benzoic acid	105		11.100	11.201	(0.950)	3490	0.80000	0.1149 (M)
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	18135	0.40000	0.4312
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	11389	0.20000	0.2504
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	570074	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	34818	0.20000	0.2482
29 4-Chloroaniline	127		11.851	11.858	(1.014)	26250	0.40000	0.4537
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	5346	0.20000	0.2369
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	17455	0.40000	0.4398
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	24381	0.20000	0.2369
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	8437	0.40000	0.3750

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	9231	0.40000	0.3716
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	11115	0.40000	0.3877
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	23675	0.20000	0.2366
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	20648	0.20000	0.2426
38 2-Nitroaniline	65	14.381	14.389	(0.938)	8268	0.40000	0.3694
39 Dimethylphthalate	163	14.815	14.822	(0.967)	19273	0.20000	0.2296
40 Acenaphthylene	152	15.008	15.008	(0.979)	29849	0.20000	0.2300
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	7046	0.40000	0.3720
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	297614	4.00000	
43 3-Nitroaniline	138	15.233	15.240	(0.994)	8294	0.40000	0.3603
44 Acenaphthene	153	15.387	15.394	(1.004)	19644	0.20000	0.2440
45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	3242	0.80000	0.2015
46 Dibenzofuran	168	15.712	15.719	(1.025)	30090	0.20000	0.2492
47 4-Nitrophenol	109	15.542	15.549	(1.014)	3296	0.40000	0.2991
48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	8877	0.40000	0.3416
50 Diethylphthalate	149	16.276	16.283	(1.062)	22462	0.20000	0.1969
49 Fluorene	166	16.431	16.438	(1.072)	29453	0.20000	0.2293
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	13955	0.20000	0.2219
52 4-Nitroaniline	138	16.500	16.515	(1.077)	10011	0.40000	0.3614
53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	9730	0.80000	0.4648
54 N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	19476	0.20000	0.2277
§ 55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	3068	0.30000	0.2200
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	7149	0.20000	0.2207
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	8640	0.20000	0.2431
58 Pentachlorophenol	266	18.106	18.106	(0.986)	3022	0.40000	0.1962
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	498496	4.00000	
60 Phenanthrene	178	18.416	18.423	(1.003)	31261	0.20000	0.2405
61 Anthracene	178	18.508	18.516	(1.008)	26039	0.20000	0.2099
62 Carbazole	167	18.833	18.841	(1.025)	25451	0.20000	0.2122
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	21657	0.20000	0.1600
64 Fluoranthene	202	20.798	20.806	(0.889)	28626	0.20000	0.2200
65 Pyrene	202	21.224	21.231	(0.907)	30310	0.20000	0.2215
§ 66 Terphenyl-d14	244	21.503	21.510	(0.919)	22483	0.20000	0.2317
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	8026	0.20000	0.1555
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	27427	0.20000	0.2240
* 69 Chrysene-d12	240	23.407	23.415	(1.000)	404183	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	24605	0.60000	0.6565
71 Chrysene	228	23.454	23.461	(1.002)	27201	0.20000	0.2352
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	10699	0.20000	0.1781
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	540769	4.00000	
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	32545	0.20000	0.2507
74 Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	24096	0.20000	0.2063
75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	26968	0.20000	0.2268
76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	19818	0.20000	0.2041
* 77 Perylene-d12	264	26.102	26.101	(1.000)	371728	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	22998	0.20000	0.2083
79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	20082	0.20000	0.2141
80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	20265	0.20000	0.2191
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	16503	0.40000	0.4766
91 Aniline	93	8.627	8.634	(0.939)	33005	0.40000	0.4801
93 Benzidine	184	21.023	21.030	(0.898)	23015	0.40000	0.4647
103 Pyridine	79	4.819	4.780	(0.525)	26293	0.20000	0.2389
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	23093	0.20000	0.2336
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	25038	0.20000	0.2265

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.296	25.358	(0.969)	49181	0.40000	0.4354
120 2,3,4,6-Tetrachlorophenol	232		16.052	16.051	(1.047)	3081	0.20000	0.1470

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123004.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	156948	3.93
27 Naphthalene-d8	553510	276755	1107020	570074	2.99
42 Acenaphthene-d10	305411	152706	610822	297614	-2.55
59 Phenanthrene-d10	491708	245854	983416	498496	1.38
69 Chrysene-d12	424740	212370	849480	404183	-4.84
134 Di-n-octylphthala	684951	342476	1369902	540769	-21.05
77 Perylene-d12	395150	197575	790300	371728	-5.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123004.D

Lab ID: SKL0355-CAL1
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 09:18

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0086	Benzoic acid

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

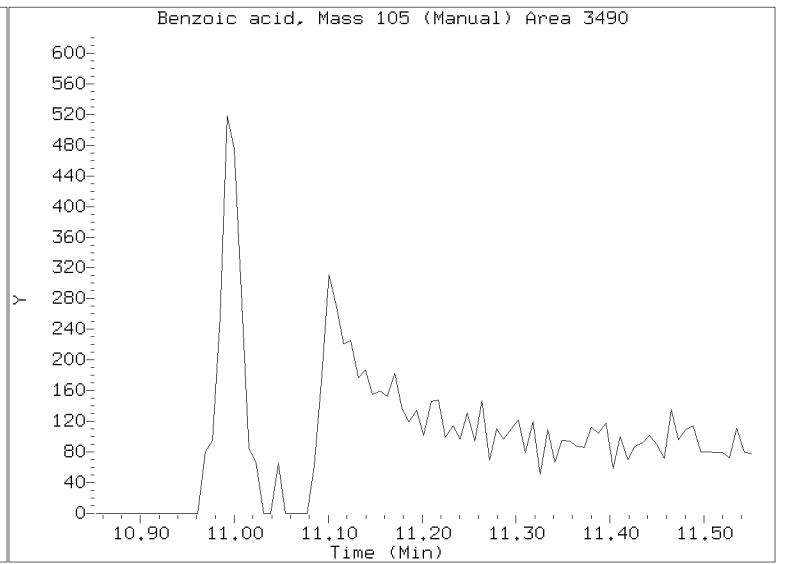
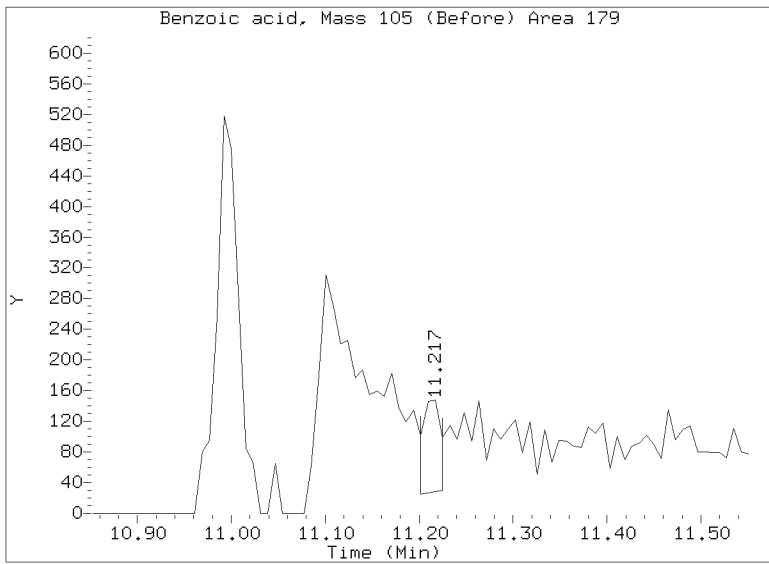
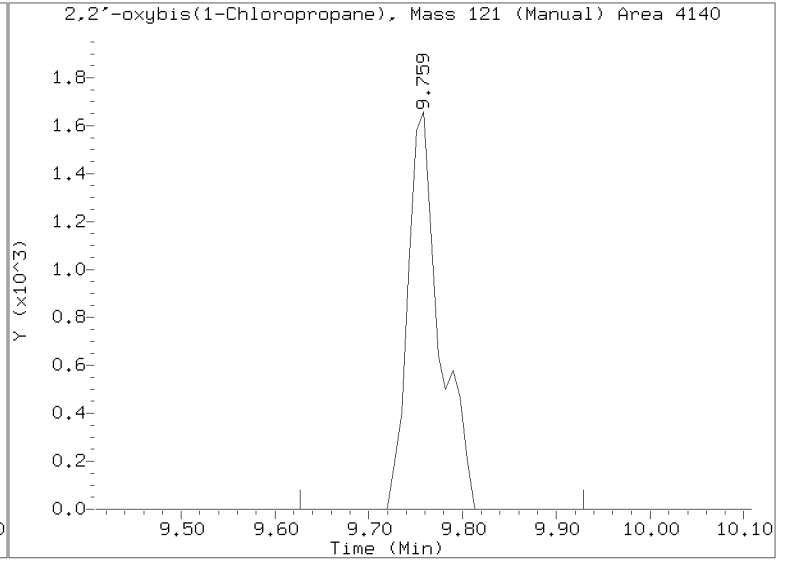
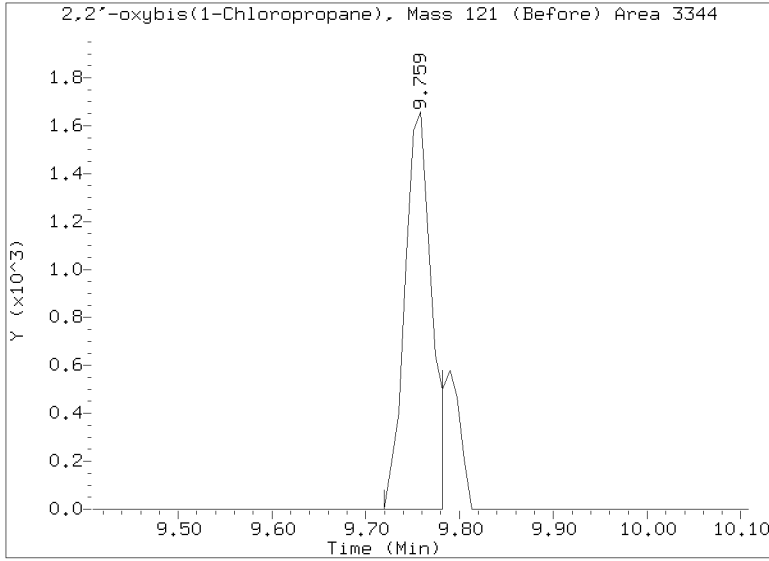
Quant Ion Manual Peak Adjustment Report

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Injection Date: 30-DEC-2022 09:18

Lab ID:SKL0355-CAL1 Client ID:

Report Date: 01/04/2023 08:10



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Date: 30-DEC-2022 09:54

Client ID:

Sample Info: SKL0355-CAL6

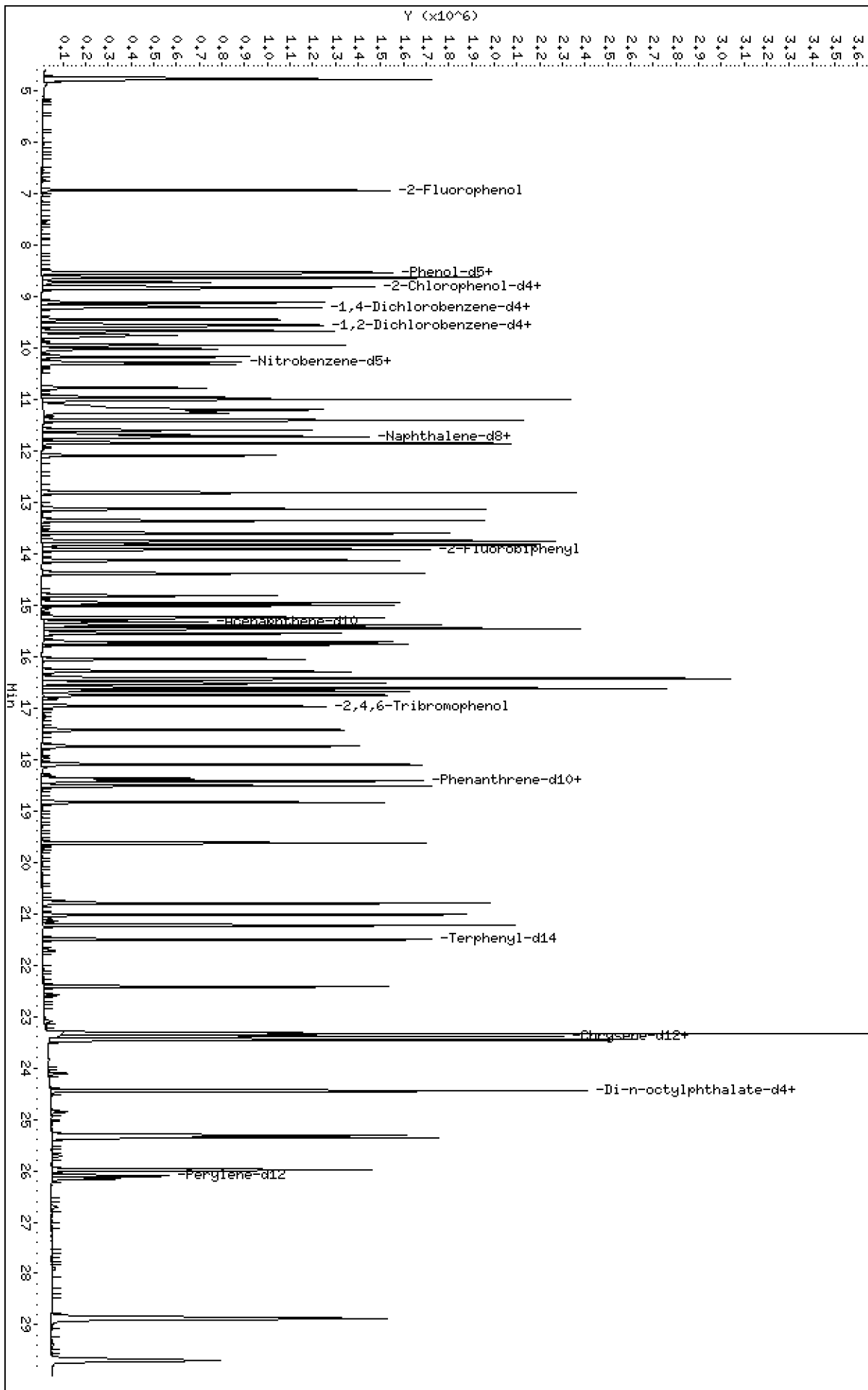
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
 Lab Smp Id: SKL0355-CAL6
 Inj Date : 30-DEC-2022 09:54 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 5 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	679687	15.0000	14.69
\$ 2 Phenol-d5	99		8.534	8.526	(0.929)	872537	15.0000	15.26
3 Phenol	94		8.550	8.549	(0.931)	619094	10.0000	9.531
\$ 5 2-Chlorophenol-d4	132		8.820	8.820	(0.960)	722531	15.0000	15.05
4 Bis(2-Chloroethyl)ether	93		8.719	8.719	(0.949)	411863	10.0000	9.204
6 2-Chlorophenol	128		8.843	8.843	(0.963)	514491	10.0000	9.758
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	516134	10.0000	9.231
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	144388	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	492544	10.0000	9.299
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	317548	10.0000	9.677
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	485695	10.0000	9.350
11 Benzyl alcohol	108		9.455	9.447	(1.030)	302837	10.0000	10.47
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	133200	10.0000	8.844 (M)
13 2-Methylphenol	108		9.673	9.672	(1.053)	460441	10.0000	9.755
17 Hexachloroethane	117		10.177	10.177	(1.108)	188693	10.0000	9.686
16 N-Nitroso-di-n-propylamine	70		10.022	10.014	(1.091)	287238	10.0000	9.990
15 4-Methylphenol	108		9.944	9.944	(1.083)	494444	10.0000	9.930
\$ 18 Nitrobenzene-d5	82		10.286	10.285	(0.880)	458887	10.0000	10.44
19 Nitrobenzene	77		10.317	10.316	(0.883)	435132	10.0000	9.968
20 Isophorone	82		10.775	10.774	(0.922)	599485	10.0000	10.78
21 2-Nitrophenol	139		10.953	10.953	(0.937)	296338	10.0000	10.08
22 2,4-Dimethylphenol	107		11.007	10.999	(0.942)	971073	20.0000	21.31
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	410542	10.0000	9.485
24 Benzoic acid	105		11.271	11.201	(0.964)	1255023	40.0000	40.83
25 2,4-Dichlorophenol	162		11.410	11.410	(0.976)	839403	20.0000	21.86
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	387504	10.0000	9.332
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	520524	4.00000	
28 Naphthalene	128		11.735	11.735	(1.004)	1223288	10.0000	9.550
29 4-Chloroaniline	127		11.859	11.858	(1.015)	1081365	20.0000	20.47
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	200462	10.0000	9.730
31 4-Chloro-3-methylphenol	107		12.818	12.818	(1.097)	772836	20.0000	21.32
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	946377	10.0000	10.07
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	488475	20.0000	22.16

Compounds	QUANT	SIG	AMOUNTS					
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.754	(0.897)	538916	20.0000	22.14
35 2,4,5-Trichlorophenol	196		13.832	13.824	(0.903)	607808	20.0000	21.64
§ 36 2-Fluorobiphenyl	172		13.917	13.916	(0.908)	949918	10.0000	9.689
37 2-Chloronaphthalene	162		14.134	14.133	(0.922)	801615	10.0000	9.611
38 2-Nitroaniline	65		14.389	14.389	(0.939)	471220	20.0000	21.49
39 Dimethylphthalate	163		14.822	14.822	(0.967)	795860	10.0000	9.678
40 Acenaphthylene	152		15.008	15.008	(0.979)	1241465	10.0000	9.762
41 2,6-Dinitrotoluene	165		14.962	14.954	(0.976)	393357	20.0000	21.20
* 42 Acenaphthene-d10	164		15.325	15.325	(1.000)	291597	4.00000	
43 3-Nitroaniline	138		15.248	15.240	(0.995)	486154	20.0000	21.55
44 Acenaphthene	153		15.395	15.394	(1.005)	762858	10.0000	9.671
45 2,4-Dinitrophenol	184		15.464	15.456	(1.009)	731163	40.0000	41.68
46 Dibenzofuran	168		15.719	15.719	(1.026)	1138667	10.0000	9.626
47 4-Nitrophenol	109		15.557	15.549	(1.015)	230638	20.0000	20.34
48 2,4-Dinitrotoluene	165		15.774	15.765	(1.029)	547007	20.0000	21.48
50 Diethylphthalate	149		16.292	16.283	(1.063)	1117494	10.0000	9.998
49 Fluorene	166		16.438	16.438	(1.073)	1268888	10.0000	10.08
51 4-Chlorophenyl-phenylether	204		16.423	16.423	(1.072)	605617	10.0000	9.831
52 4-Nitroaniline	138		16.523	16.515	(1.078)	591978	20.0000	20.71
53 4,6-Dinitro-2-methylphenol	198		16.623	16.615	(0.905)	868287	40.0000	40.88
54 N-Nitrosodiphenylamine	169		16.670	16.669	(0.907)	756128	10.0000	9.633
§ 55 2,4,6-Tribromophenol	330		16.970	16.970	(1.107)	228033	15.0000	15.25
56 4-Bromophenyl-phenylether	248		17.433	17.433	(0.949)	296950	10.0000	9.990
57 Hexachlorobenzene	284		17.750	17.749	(0.966)	308248	10.0000	9.450
58 Pentachlorophenol	266		18.106	18.106	(0.985)	325403	20.0000	20.49
* 59 Phenanthrene-d10	188		18.377	18.376	(1.000)	457445	4.00000	
60 Phenanthrene	178		18.423	18.423	(1.003)	1136058	10.0000	9.525
61 Anthracene	178		18.516	18.516	(1.008)	1166723	10.0000	10.25
62 Carbazole	167		18.841	18.841	(1.025)	1106489	10.0000	10.05
63 Di-n-butylphthalate	149		19.630	19.630	(1.068)	1391254	10.0000	10.21
64 Fluoranthene	202		20.806	20.806	(0.889)	1335570	10.0000	10.15
65 Pyrene	202		21.224	21.231	(0.906)	1400336	10.0000	10.12
§ 66 Terphenyl-d14	244		21.503	21.510	(0.918)	945502	10.0000	9.639
67 Butylbenzylphthalate	149		22.424	22.423	(0.958)	545847	10.0000	10.07
68 Benzo(a)anthracene	228		23.384	23.384	(0.999)	1247362	10.0000	10.08
* 69 Chrysene-d12	240		23.415	23.415	(1.000)	408635	4.00000	
70 3,3'-Dichlorobenzidine	252		23.338	23.329	(0.997)	1218183	30.0000	32.15
71 Chrysene	228		23.461	23.461	(1.002)	1138686	10.0000	9.738
72 bis(2-Ethylhexyl)phthalate	149		23.446	23.446	(0.959)	808502	10.0000	11.16
* 134 Di-n-octylphthalate-d4	153		24.437	24.437	(1.000)	652062	4.00000	
73 Di-n-octylphthalate	149		24.452	24.452	(1.001)	1452216	10.0000	9.278
74 Benzo(b)fluoranthene	252		25.312	25.311	(0.970)	1240733	10.0000	10.56
75 Benzo(k)fluoranthene	252		25.358	25.358	(0.972)	1222178	10.0000	10.22
76 Benzo(a)pyrene	252		25.985	25.985	(0.996)	1054229	10.0000	10.80
* 77 Perylene-d12	264		26.102	26.101	(1.000)	373712	4.00000	
78 Indeno(1,2,3-cd)pyrene	276		28.869	28.869	(1.106)	1165940	10.0000	10.51
79 Dibenzo(a,h)anthracene	278		28.885	28.876	(1.107)	993824	10.0000	10.54
80 Benzo(g,h,i)perylene	276		29.692	29.684	(1.138)	963494	10.0000	10.36
90 N-Nitrosodimethylamine	74		4.757	4.749	(0.518)	607307	20.0000	19.06
91 Aniline	93		8.635	8.634	(0.940)	1222568	20.0000	19.33
93 Benzidine	184		21.023	21.030	(0.898)	1160731	20.0000	20.97
103 Pyridine	79		4.780	4.780	(0.521)	938645	10.0000	9.272
105 1-methylnaphthalene	142		13.360	13.359	(1.143)	908074	10.0000	10.06
111 Azobenzene (1,2-DP-Hydrazine)	77		16.754	16.746	(1.093)	1036002	10.0000	9.567

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
187 Total Benzofluoranthenes	252		25.358	25.358	(0.972)	2352916	20.0000	20.72
120 2,3,4,6-Tetrachlorophenol	232		16.052	16.051	(1.047)	230505	10.0000	10.22

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123005.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	144388	-4.39
27 Naphthalene-d8	553510	276755	1107020	520524	-5.96
42 Acenaphthene-d10	305411	152706	610822	291597	-4.52
59 Phenanthrene-d10	491708	245854	983416	457445	-6.97
69 Chrysene-d12	424740	212370	849480	408635	-3.79
134 Di-n-octylphthala	684951	342476	1369902	652062	-4.80
77 Perylene-d12	395150	197575	790300	373712	-5.43

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123005.D

Lab ID: SKL0355-CAL6
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 09:54

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.958	0.0060	Benzoic acid

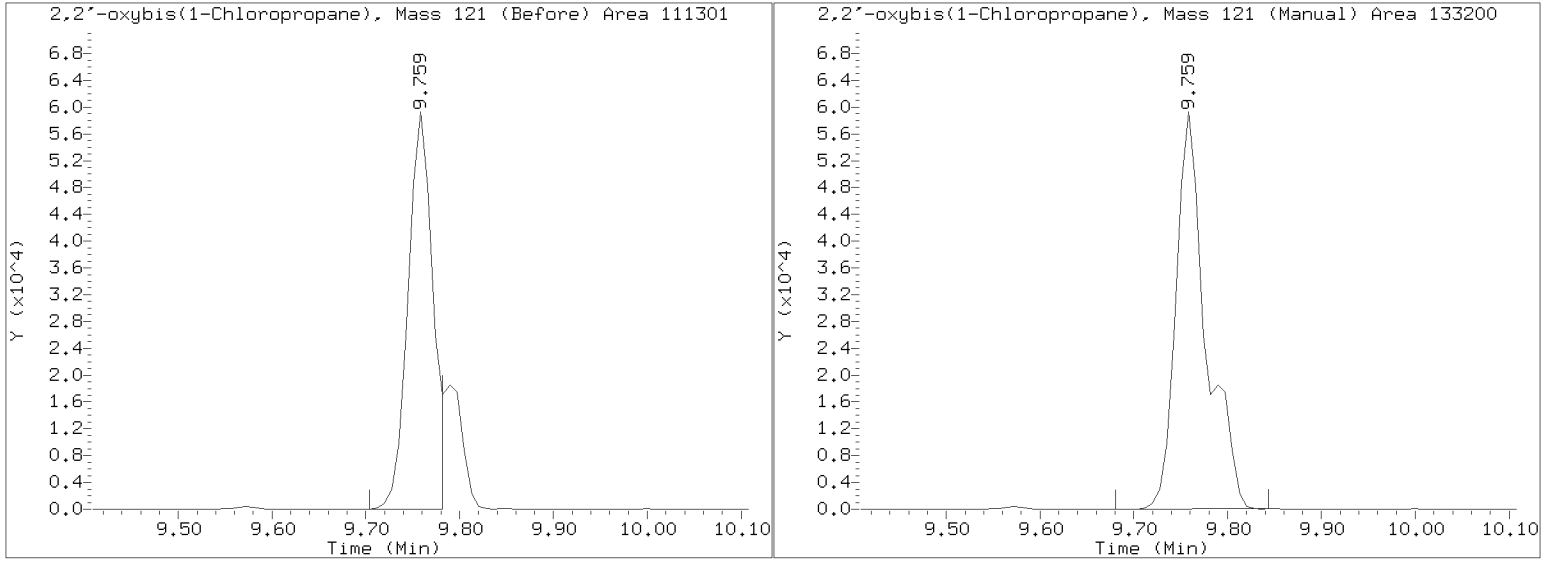
RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123005.D
Injection Date: 30-DEC-2022 09:54
Lab ID:SKL0355-CAL6 Client ID:
Report Date: 01/04/2023 08:10



Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123006.D

Date: 30-DEC-2022 10:30

Client ID:

Sample Info: SKL0355-CAL2

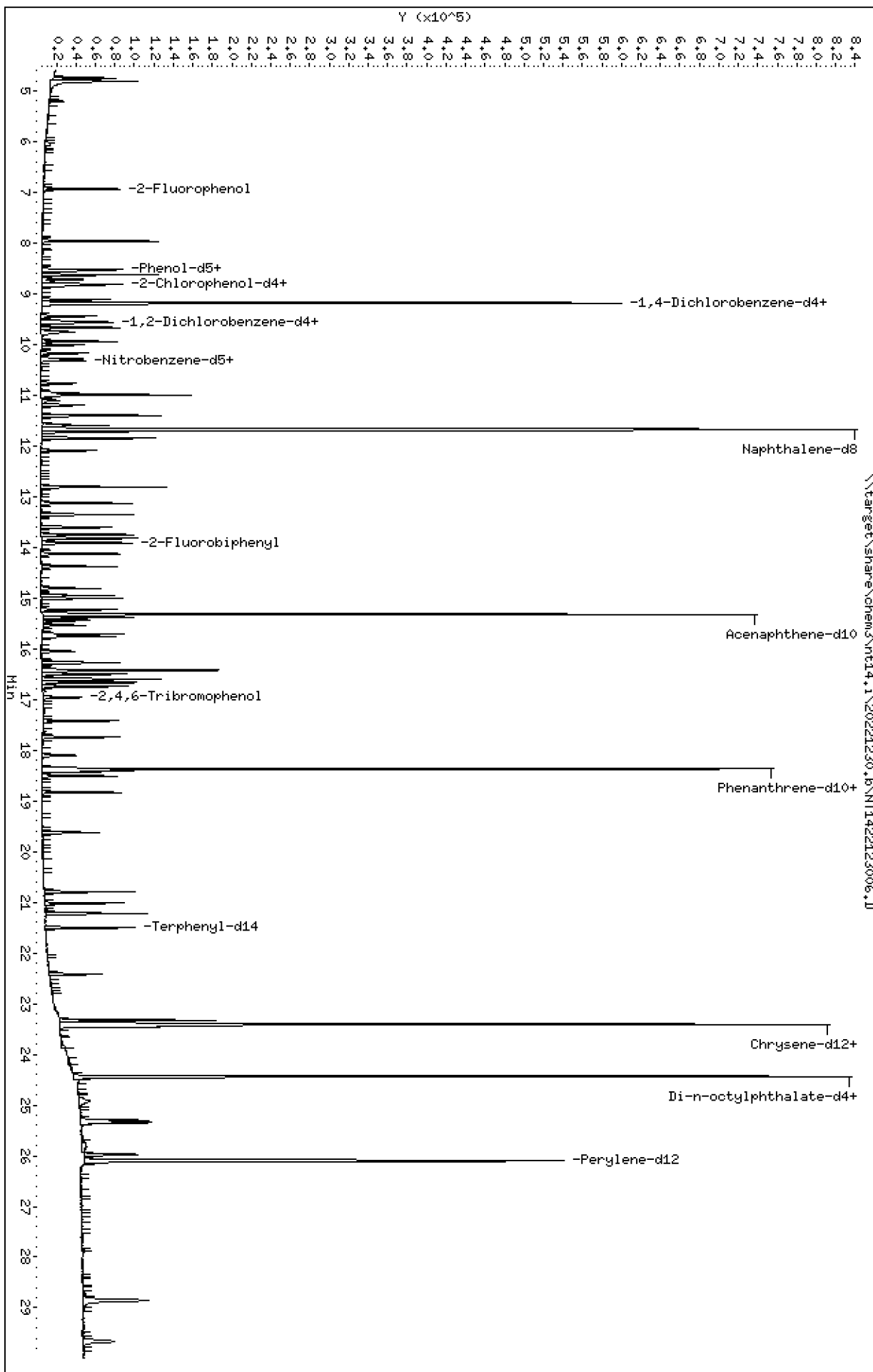
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
 Lab Smp Id: SKL0355-CAL2
 Inj Date : 30-DEC-2022 10:30 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 6 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	34903	0.75000	0.6981
\$ 2 Phenol-d5	99		8.519	8.526	(0.928)	42199	0.75000	0.6830
3 Phenol	94		8.542	8.549	(0.930)	36124	0.50000	0.5145
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	35806	0.75000	0.6900
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	24289	0.50000	0.5022
6 2-Chlorophenol	128		8.843	8.843	(0.963)	29167	0.50000	0.5118
7 1,3-Dichlorobenzene	146		9.114	9.121	(0.992)	30449	0.50000	0.5039
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	156057	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	28610	0.50000	0.4997
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	17119	0.50000	0.4827
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	28498	0.50000	0.5076
11 Benzyl alcohol	108		9.447	9.447	(1.029)	14402	0.50000	0.4608
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	8044	0.50000	0.4942 (M)
13 2-Methylphenol	108		9.673	9.672	(1.053)	25776	0.50000	0.5053
17 Hexachloroethane	117		10.177	10.177	(1.108)	10124	0.50000	0.4808
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	14481	0.50000	0.4660
15 4-Methylphenol	108		9.937	9.944	(1.082)	26897	0.50000	0.4998
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	21401	0.50000	0.4431
19 Nitrobenzene	77		10.317	10.316	(0.883)	22648	0.50000	0.4721
20 Isophorone	82		10.767	10.774	(0.921)	25135	0.50000	0.4111
21 2-Nitrophenol	139		10.953	10.953	(0.937)	12069	0.50000	0.4112
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	51050	1.00000	1.020
23 Bis(2-Chloroethoxy)methane	93		11.193	11.201	(0.958)	23378	0.50000	0.4915
24 Benzoic acid	105		11.108	11.201	(0.950)	14207	2.00000	0.4659 (M)
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	40191	1.00000	0.9524
26 1,2,4-Trichlorobenzene	180		11.596	11.604	(0.992)	23206	0.50000	0.5086
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	571985	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	69183	0.50000	0.4915
29 4-Chloroaniline	127		11.851	11.858	(1.014)	56453	1.00000	0.9725
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	11064	0.50000	0.4887
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	38662	1.00000	0.9708
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	49620	0.50000	0.4806
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	18783	1.00000	0.8233

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	21656	1.00000	0.8597
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	27255	1.00000	0.9375
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	47567	0.50000	0.4688
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	42164	0.50000	0.4884
38 2-Nitroaniline	65	14.381	14.389	(0.938)	19656	1.00000	0.8661
39 Dimethylphthalate	163	14.815	14.822	(0.967)	40698	0.50000	0.4782
40 Acenaphthylene	152	15.008	15.008	(0.979)	63153	0.50000	0.4798
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	16410	1.00000	0.8543
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	301808	4.00000	
43 3-Nitroaniline	138	15.233	15.240	(0.994)	19877	1.00000	0.8514
44 Acenaphthene	153	15.387	15.394	(1.004)	39464	0.50000	0.4834
45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	12777	2.00000	0.7820
46 Dibenzofuran	168	15.712	15.719	(1.025)	60485	0.50000	0.4940
47 4-Nitrophenol	109	15.542	15.549	(1.014)	8162	1.00000	0.7298
48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	22031	1.00000	0.8360
50 Diethylphthalate	149	16.276	16.283	(1.062)	48213	0.50000	0.4167
49 Fluorene	166	16.431	16.438	(1.072)	61703	0.50000	0.4738
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	28550	0.50000	0.4478
52 4-Nitroaniline	138	16.500	16.515	(1.077)	23979	1.00000	0.8525
53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	28739	2.00000	1.378
54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	41445	0.50000	0.4873
§ 55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	7439	0.75000	0.5253
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	14917	0.50000	0.4632
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	17094	0.50000	0.4837
58 Pentachlorophenol	266	18.106	18.106	(0.986)	7931	1.00000	0.5172
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	495600	4.00000	
60 Phenanthrene	178	18.415	18.423	(1.003)	62770	0.50000	0.4858
61 Anthracene	178	18.508	18.516	(1.008)	56156	0.50000	0.4552
62 Carbazole	167	18.833	18.841	(1.025)	55016	0.50000	0.4613
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	48994	0.50000	0.3635
64 Fluoranthene	202	20.798	20.806	(0.889)	59348	0.50000	0.4569
65 Pyrene	202	21.224	21.231	(0.907)	64535	0.50000	0.4725
§ 66 Terphenyl-d14	244	21.503	21.510	(0.919)	45758	0.50000	0.4725
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	17654	0.50000	0.3425
68 Benzo(a)anthracene	228	23.376	23.384	(0.999)	57446	0.50000	0.4700
* 69 Chrysene-d12	240	23.407	23.415	(1.000)	403440	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	53862	1.50000	1.440
71 Chrysene	228	23.454	23.461	(1.002)	56466	0.50000	0.4891
72 bis(2-Ethylhexyl)phthalate	149	23.438	23.446	(0.959)	24451	0.50000	0.4089
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	538411	4.00000	
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	65847	0.50000	0.5095
74 Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	50315	0.50000	0.4235
75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	57082	0.50000	0.4720
76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	42758	0.50000	0.4329
* 77 Perylene-d12	264	26.102	26.101	(1.000)	378046	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	49428	0.50000	0.4402
79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	42151	0.50000	0.4418
80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	42449	0.50000	0.4513
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	34503	1.00000	1.002
91 Aniline	93	8.627	8.634	(0.939)	67619	1.00000	0.9892
93 Benzidine	184	21.023	21.030	(0.898)	50054	1.00000	1.010
103 Pyridine	79	4.803	4.780	(0.523)	55583	0.50000	0.5080
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	47699	0.50000	0.4808
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	55153	0.50000	0.4921

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	
187 Total Benzofluoranthenes	252		25.343	25.358	(0.971)	103541	1.00000	0.9014
120 2,3,4,6-Tetrachlorophenol	232		16.052	16.051	(1.047)	7674	0.50000	0.3605

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123006.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	156057	3.34
27 Naphthalene-d8	553510	276755	1107020	571985	3.34
42 Acenaphthene-d10	305411	152706	610822	301808	-1.18
59 Phenanthrene-d10	491708	245854	983416	495600	0.79
69 Chrysene-d12	424740	212370	849480	403440	-5.01
134 Di-n-octylphthala	684951	342476	1369902	538411	-21.39
77 Perylene-d12	395150	197575	790300	378046	-4.33

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123006.D

Lab ID: SKL0355-CAL2
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 10:30

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0080	Benzoic acid

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

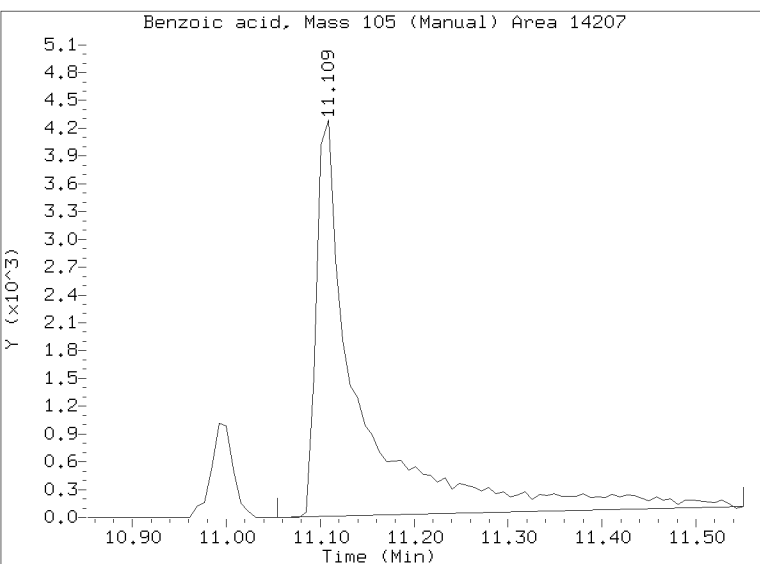
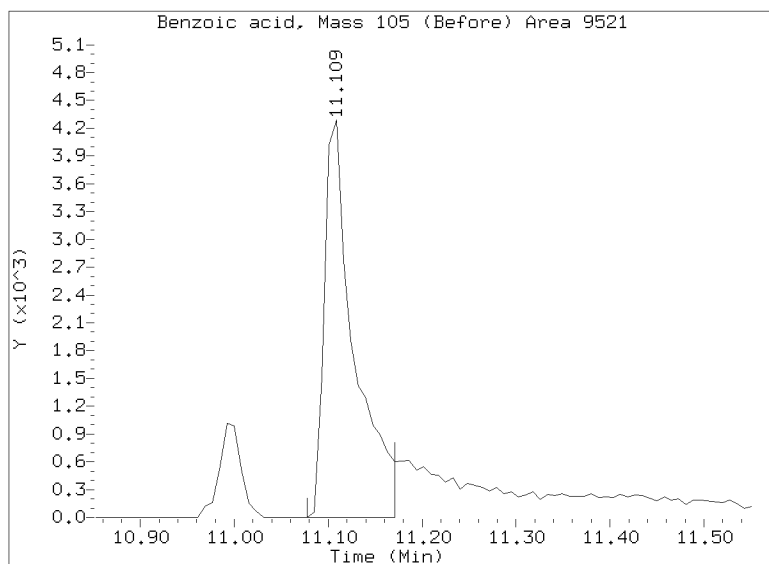
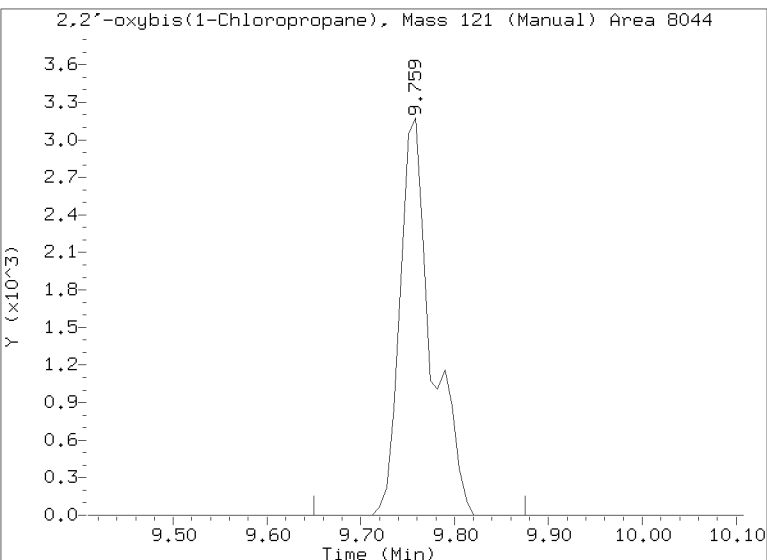
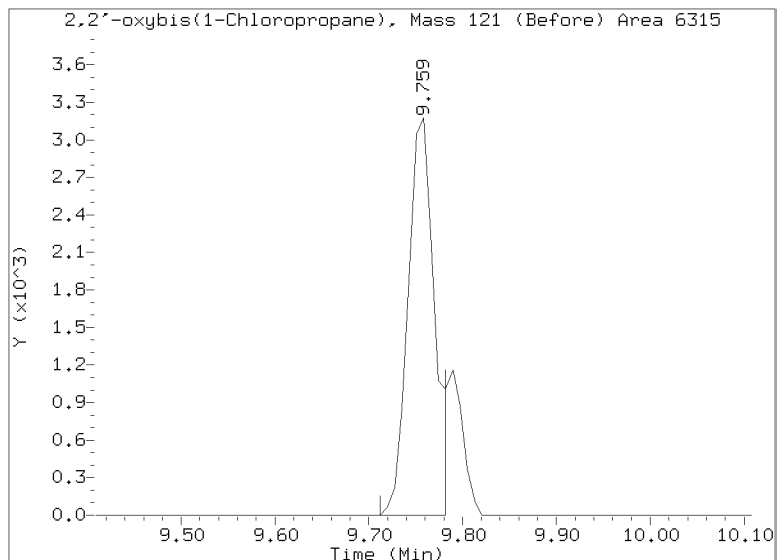
Quant Ion Manual Peak Adjustment Report

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Injection Date: 30-DEC-2022 10:30

Lab ID:SKL0355-CAL2 Client ID:

Report Date: 01/04/2023 08:10



Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123007.D

Date: 30-DEC-2022 11:07

Client ID:

Sample Info: SKL0355-CAL4

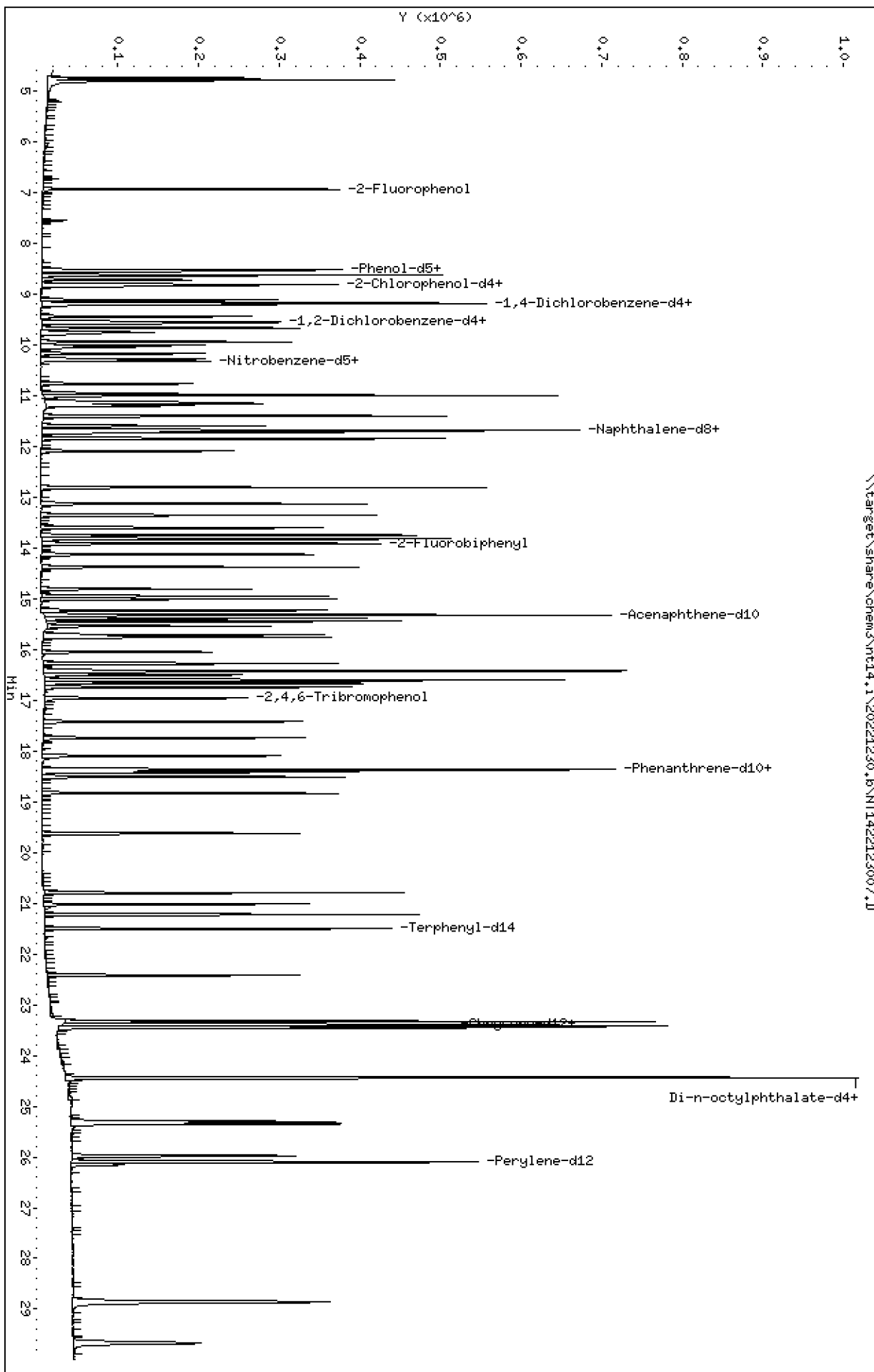
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
 Lab Smp Id: SKL0355-CAL4
 Inj Date : 30-DEC-2022 11:07 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 7 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	161372	3.75000	3.490
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	197392	3.75000	3.454
3 Phenol	94		8.542	8.549	(0.930)	147712	2.50000	2.275
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	165516	3.75000	3.449
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	100156	2.50000	2.239
6 2-Chlorophenol	128		8.843	8.843	(0.963)	118199	2.50000	2.243
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	125394	2.50000	2.244
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	144333	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	118264	2.50000	2.234
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	72638	2.50000	2.214
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	115678	2.50000	2.228
11 Benzyl alcohol	108		9.448	9.447	(1.029)	65858	2.50000	2.278
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	31485	2.50000	2.091 (M)
13 2-Methylphenol	108		9.673	9.672	(1.053)	108026	2.50000	2.290
17 Hexachloroethane	117		10.177	10.177	(1.108)	43457	2.50000	2.232
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	66811	2.50000	2.324
15 4-Methylphenol	108		9.944	9.944	(1.083)	112855	2.50000	2.267
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	102108	2.50000	2.272
19 Nitrobenzene	77		10.317	10.316	(0.883)	99801	2.50000	2.236
20 Isophorone	82		10.767	10.774	(0.921)	126119	2.50000	2.217
21 2-Nitrophenol	139		10.953	10.953	(0.937)	59106	2.50000	2.132
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	210430	5.00000	4.517
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	99507	2.50000	2.248
24 Benzoic acid	105		11.155	11.201	(0.954)	205762	10.0000	7.144
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	173493	5.00000	4.418
26 1,2,4-Trichlorobenzene	180		11.596	11.604	(0.992)	93766	2.50000	2.208
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	532256	4.00000	
28 Naphthalene	128		11.728	11.735	(1.003)	290726	2.50000	2.220
29 4-Chloroaniline	127		11.851	11.858	(1.014)	265464	5.00000	4.914
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	46502	2.50000	2.207
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	171599	5.00000	4.630
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	214202	2.50000	2.229
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	95170	5.00000	4.380

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107791	5.00000	4.492
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	122944	5.00000	4.440
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	215631	2.50000	2.231
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	180247	2.50000	2.192
38 2-Nitroaniline	65	14.381	14.389	(0.938)	102237	5.00000	4.729
39 Dimethylphthalate	163	14.815	14.822	(0.967)	183572	2.50000	2.264
40 Acenaphthylene	152	15.008	15.008	(0.979)	285739	2.50000	2.279
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	84829	5.00000	4.636
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	287473	4.00000	
43 3-Nitroaniline	138	15.233	15.240	(0.994)	101865	5.00000	4.581
44 Acenaphthene	153	15.387	15.394	(1.004)	171204	2.50000	2.202
45 2,4-Dinitrophenol	184	15.449	15.456	(1.008)	111904	10.0000	7.089
46 Dibenzofuran	168	15.720	15.719	(1.026)	256638	2.50000	2.201
47 4-Nitrophenol	109	15.542	15.549	(1.014)	46049	5.00000	4.287
48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	115038	5.00000	4.583
50 Diethylphthalate	149	16.276	16.283	(1.062)	265810	2.50000	2.412
49 Fluorene	166	16.431	16.438	(1.072)	299180	2.50000	2.412
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	140924	2.50000	2.320
52 4-Nitroaniline	138	16.500	16.515	(1.077)	86874	5.00000	3.224
53 4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	170673	10.0000	8.585
54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	178863	2.50000	2.241
§ 55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	44278	3.75000	3.235
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	66326	2.50000	2.195
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	71985	2.50000	2.171
58 Pentachlorophenol	266	18.098	18.106	(0.985)	55930	5.00000	3.823
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	465065	4.00000	
60 Phenanthrene	178	18.416	18.423	(1.003)	265872	2.50000	2.193
61 Anthracene	178	18.508	18.516	(1.008)	260860	2.50000	2.254
62 Carbazole	167	18.833	18.841	(1.025)	249640	2.50000	2.231
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	274468	2.50000	2.138
64 Fluoranthene	202	20.798	20.806	(0.889)	285488	2.50000	2.209
65 Pyrene	202	21.224	21.231	(0.907)	297779	2.50000	2.191
§ 66 Terphenyl-d14	244	21.503	21.510	(0.919)	215936	2.50000	2.241
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	109056	2.50000	2.113
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	269372	2.50000	2.215
* 69 Chrysene-d12	240	23.407	23.415	(1.000)	401380	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	239454	7.50000	6.433
71 Chrysene	228	23.454	23.461	(1.002)	249845	2.50000	2.175
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	152428	2.50000	2.476
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	554407	4.00000	
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	299821	2.50000	2.253
74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	257530	2.50000	2.225
75 Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	254506	2.50000	2.161
76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	213449	2.50000	2.219
* 77 Perylene-d12	264	26.102	26.101	(1.000)	368275	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	247263	2.50000	2.261
79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	206345	2.50000	2.220
80 Benzo(g,h,i)perylene	276	29.669	29.684	(1.137)	205907	2.50000	2.247
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	150851	5.00000	4.737
91 Aniline	93	8.627	8.634	(0.939)	287314	5.00000	4.544
93 Benzidine	184	21.023	21.030	(0.898)	194169	5.00000	3.890
103 Pyridine	79	4.788	4.780	(0.521)	243179	2.50000	2.403
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	206159	2.50000	2.233
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	251361	2.50000	2.355

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.350	25.358	(0.971)	490350	5.00000	4.382
120 2,3,4,6-Tetrachlorophenol	232		16.052	16.051	(1.047)	43442	2.50000	2.112

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123007.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	144333	-4.42
27 Naphthalene-d8	553510	276755	1107020	532256	-3.84
42 Acenaphthene-d10	305411	152706	610822	287473	-5.87
59 Phenanthrene-d10	491708	245854	983416	465065	-5.42
69 Chrysene-d12	424740	212370	849480	401380	-5.50
134 Di-n-octylphthala	684951	342476	1369902	554407	-19.06
77 Perylene-d12	395150	197575	790300	368275	-6.80

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123007.D

Lab ID: SKL0355-CAL4
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 11:07

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

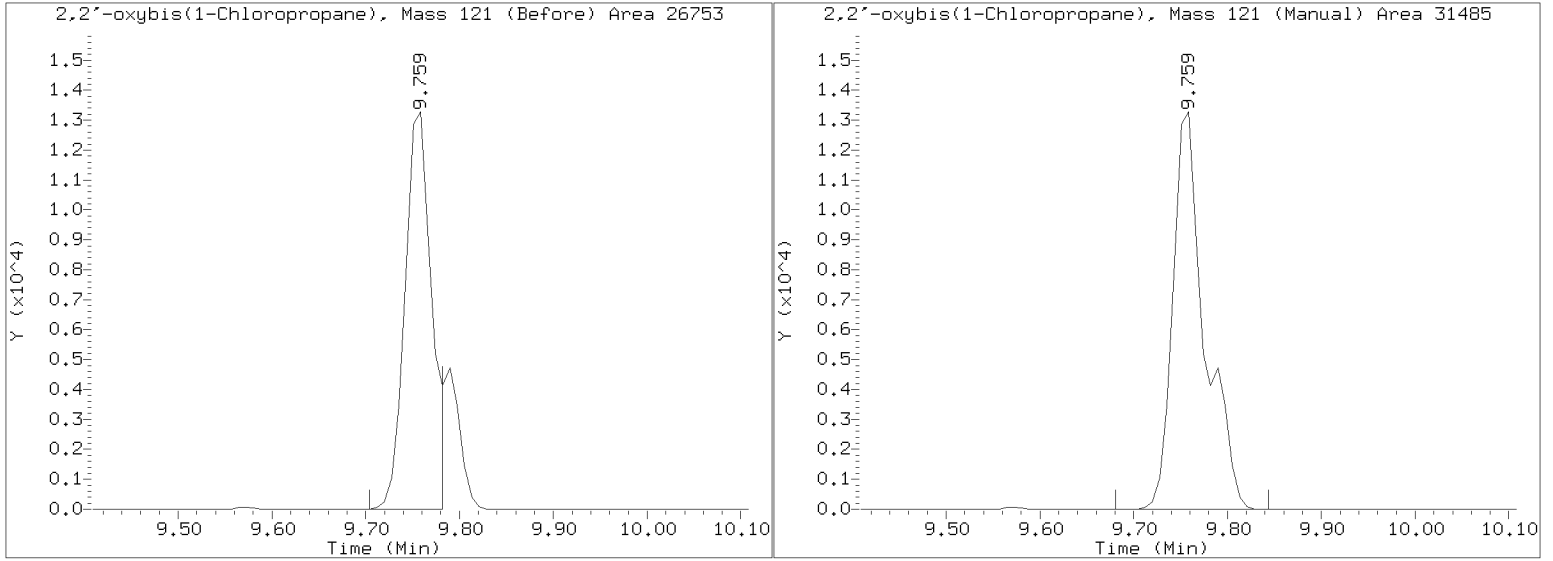
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On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123007.D
Injection Date: 30-DEC-2022 11:07
Lab ID:SKL0355-CAL4 Client ID:
Report Date: 01/04/2023 08:10



Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123008.D

Date: 30-DEC-2022 11:43

Client ID:

Sample Info: SKL0355-CAL3

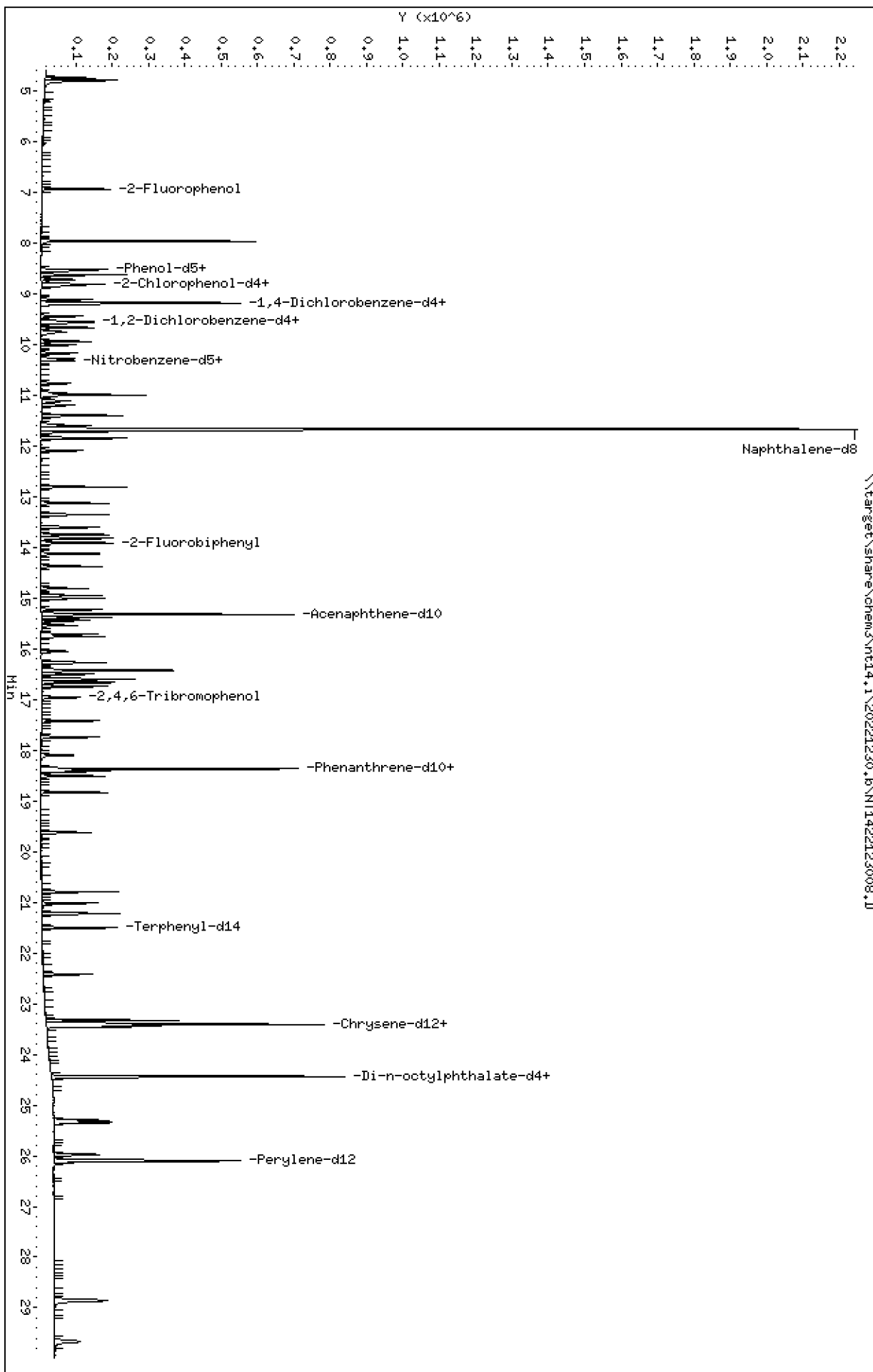
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D
 Lab Smp Id: SKL0355-CAL3
 Inj Date : 30-DEC-2022 11:43 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CAL3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 8 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	78205	1.50000	1.648
\$ 2 Phenol-d5	99		8.519	8.526	(0.928)	93624	1.50000	1.597
3 Phenol	94		8.542	8.549	(0.930)	65367	1.00000	0.9812
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	79375	1.50000	1.612
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	49691	1.00000	1.083
6 2-Chlorophenol	128		8.843	8.843	(0.963)	52602	1.00000	0.9727
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	62056	1.00000	1.082
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	148086	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	58942	1.00000	1.085
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	36481	1.00000	1.084
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	57726	1.00000	1.083
11 Benzyl alcohol	108		9.447	9.447	(1.029)	28898	1.00000	0.9744
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	16940	1.00000	1.097 (M)
13 2-Methylphenol	108		9.673	9.672	(1.053)	47025	1.00000	0.9714
17 Hexachloroethane	117		10.177	10.177	(1.108)	20867	1.00000	1.044
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	31671	1.00000	1.074
15 4-Methylphenol	108		9.937	9.944	(1.082)	49597	1.00000	0.9712
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	48318	1.00000	1.025
19 Nitrobenzene	77		10.317	10.316	(0.883)	48198	1.00000	1.029
20 Isophorone	82		10.767	10.774	(0.921)	57818	1.00000	0.9688
21 2-Nitrophenol	139		10.953	10.953	(0.937)	24295	1.00000	0.8448
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	93194	2.00000	1.907
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	49325	1.00000	1.062
24 Benzoic acid	105		11.116	11.201	(0.951)	45663	4.00000	1.530
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	83681	2.00000	2.031
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	46779	1.00000	1.050
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	558364	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	144433	1.00000	1.051
29 4-Chloroaniline	127		11.851	11.858	(1.014)	115985	2.00000	2.047
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	22515	1.00000	1.019
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	72624	2.00000	1.868
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	97694	1.00000	0.9692
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	42360	2.00000	1.942

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	43504	2.00000	1.807
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	51619	2.00000	1.857
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	105958	1.00000	1.092
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	88589	1.00000	1.073
38 2-Nitroaniline	65	14.381	14.389	(0.938)	44387	2.00000	2.046
39 Dimethylphthalate	163	14.815	14.822	(0.967)	89258	1.00000	1.097
40 Acenaphthylene	152	15.008	15.008	(0.979)	136964	1.00000	1.088
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	38770	2.00000	2.111
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	288519	4.00000	
43 3-Nitroaniline	138	15.233	15.240	(0.994)	45911	2.00000	2.057
44 Acenaphthene	153	15.387	15.394	(1.004)	83612	1.00000	1.071
45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	33764	4.00000	2.155
46 Dibenzofuran	168	15.712	15.719	(1.025)	117782	1.00000	1.006
47 4-Nitrophenol	109	15.542	15.549	(1.014)	17409	2.00000	1.625
48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	52556	2.00000	2.086
50 Diethylphthalate	149	16.276	16.283	(1.062)	126707	1.00000	1.146
49 Fluorene	166	16.431	16.438	(1.072)	129205	1.00000	1.038
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	69344	1.00000	1.138
52 4-Nitroaniline	138	16.500	16.515	(1.077)	42776	2.00000	1.588
53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	64046	4.00000	3.211
54 N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	88399	1.00000	1.091
§ 55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	19272	1.50000	1.417
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	31852	1.00000	1.038
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	36353	1.00000	1.080
58 Pentachlorophenol	266	18.106	18.106	(0.986)	18807	2.00000	1.283
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	472142	4.00000	
60 Phenanthrene	178	18.416	18.423	(1.003)	132224	1.00000	1.074
61 Anthracene	178	18.508	18.516	(1.008)	123375	1.00000	1.050
62 Carbazole	167	18.833	18.841	(1.025)	121783	1.00000	1.072
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	117464	1.00000	0.9106
64 Fluoranthene	202	20.798	20.806	(0.889)	133546	1.00000	1.051
65 Pyrene	202	21.224	21.231	(0.907)	140647	1.00000	1.052
§ 66 Terphenyl-d14	244	21.503	21.510	(0.919)	104935	1.00000	1.107
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	44722	1.00000	0.8852
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	126915	1.00000	1.061
* 69 Chrysene-d12	240	23.407	23.415	(1.000)	394732	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	116096	3.00000	3.172
71 Chrysene	228	23.454	23.461	(1.002)	119934	1.00000	1.062
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	62196	1.00000	1.063
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	526757	4.00000	
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	139891	1.00000	1.106
74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	122221	1.00000	1.050
75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	118692	1.00000	1.002
76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	96768	1.00000	0.9998
* 77 Perylene-d12	264	26.102	26.101	(1.000)	370479	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	112553	1.00000	1.023
79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	95101	1.00000	1.017
80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	94498	1.00000	1.025
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	72560	2.00000	2.221
91 Aniline	93	8.627	8.634	(0.939)	135629	2.00000	2.091
93 Benzidine	184	21.023	21.030	(0.898)	95074	2.00000	1.953
103 Pyridine	79	4.796	4.780	(0.522)	120877	1.00000	1.164
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	93920	1.00000	0.9698
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	119515	1.00000	1.115

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.304	25.358	(0.969)	230465	2.00000	2.047
120 2,3,4,6-Tetrachlorophenol	232		16.052	16.051	(1.047)	16275	1.00000	0.7969

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123008.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	148086	-1.94
27 Naphthalene-d8	553510	276755	1107020	558364	0.88
42 Acenaphthene-d10	305411	152706	610822	288519	-5.53
59 Phenanthrene-d10	491708	245854	983416	472142	-3.98
69 Chrysene-d12	424740	212370	849480	394732	-7.07
134 Di-n-octylphthala	684951	342476	1369902	526757	-23.10
77 Perylene-d12	395150	197575	790300	370479	-6.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123008.D

Lab ID: SKL0355-CAL3
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 11:43

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.958	-0.0073	Benzoic acid

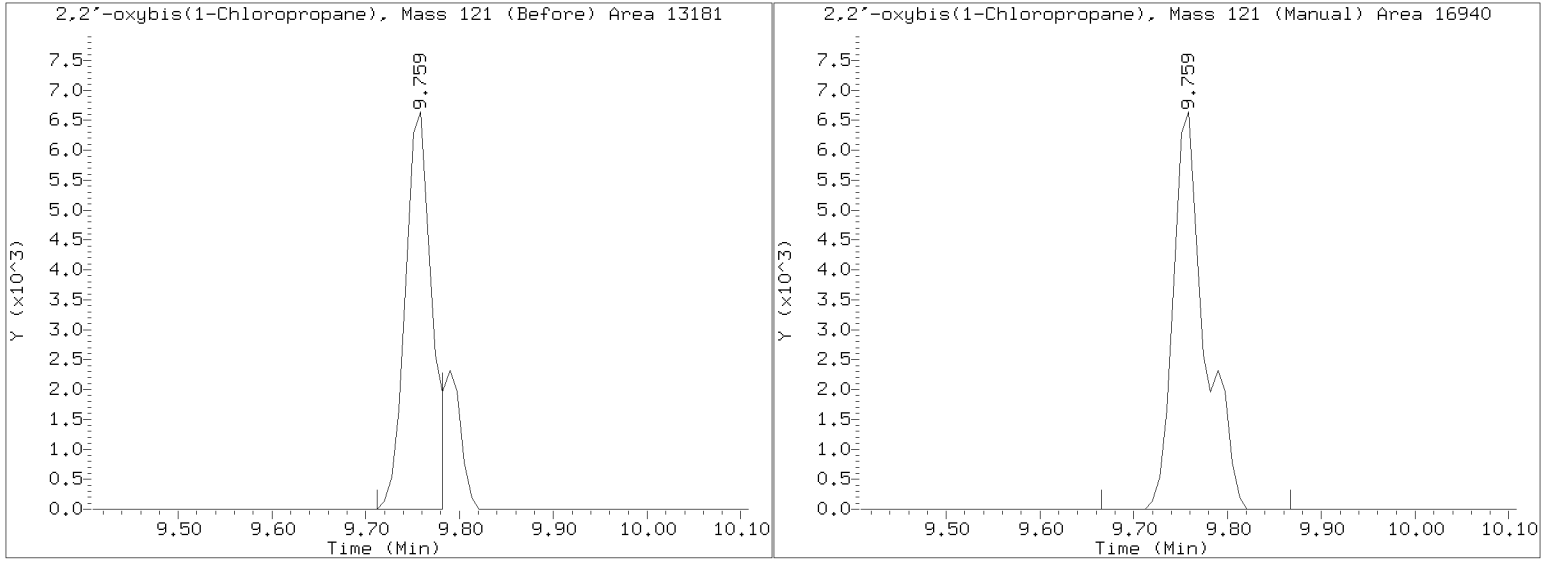
RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123008.D
Injection Date: 30-DEC-2022 11:43
Lab ID:SKL0355-CAL3 Client ID:
Report Date: 01/04/2023 08:10



Data File: \\target\share\chem3\nt14.1\20221230.6\NT1422123014.D

Date: 30-DEC-2022 13:31

Client ID:

Sample Info: SKL0365-SCW1

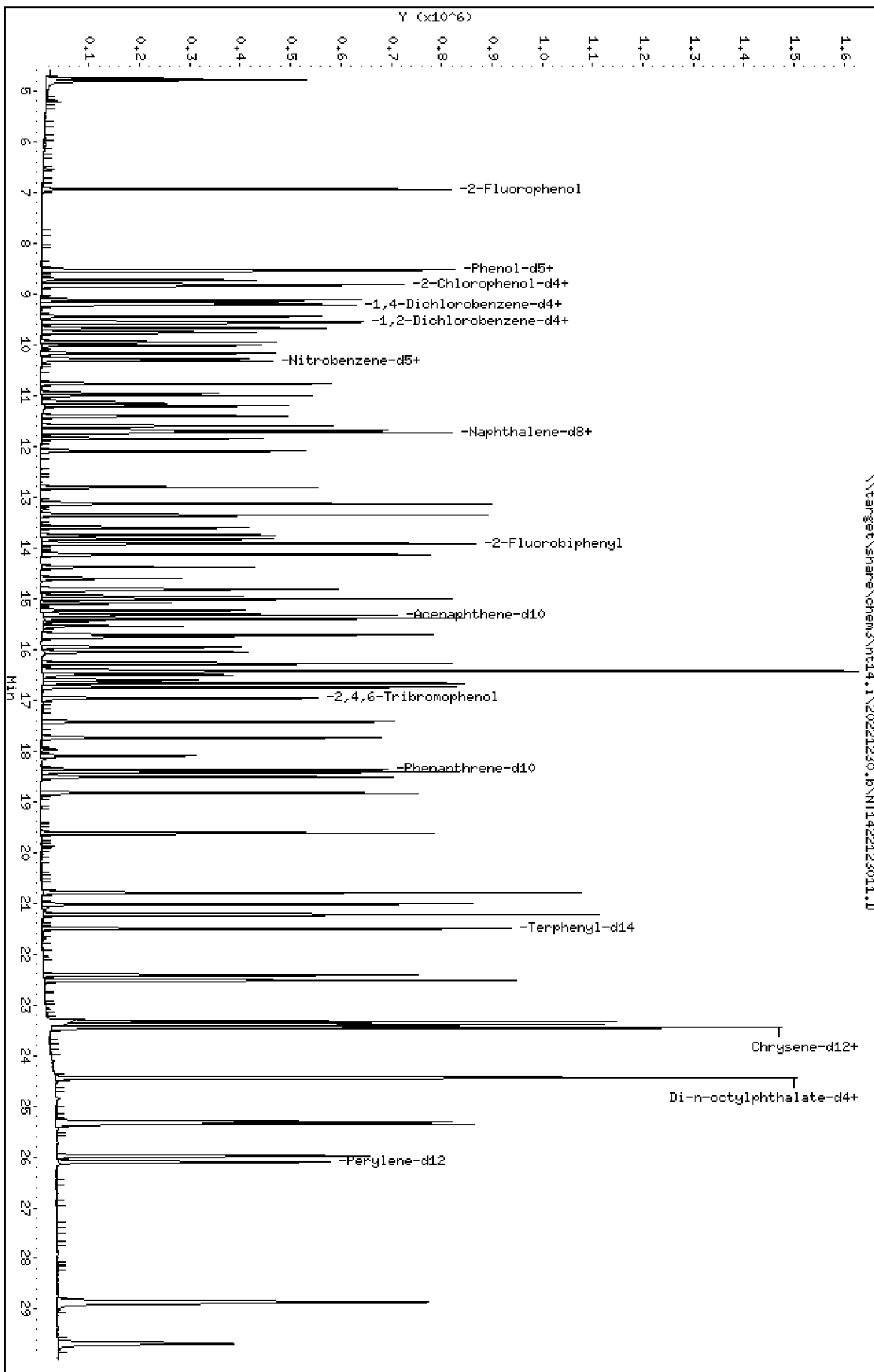
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

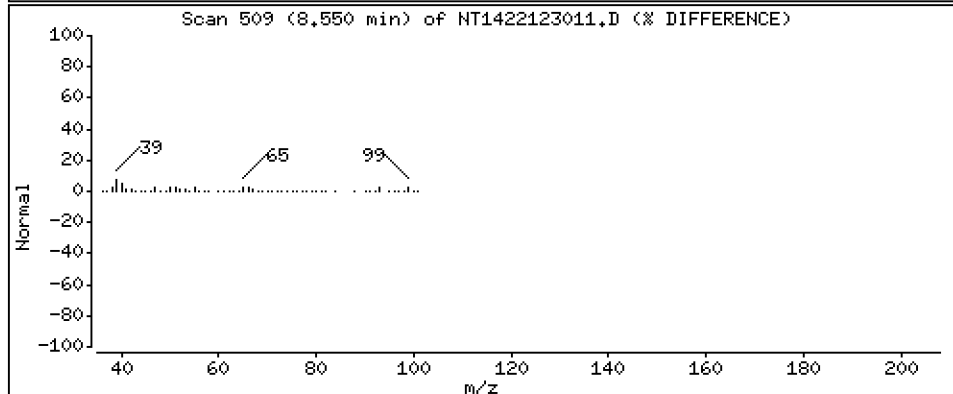
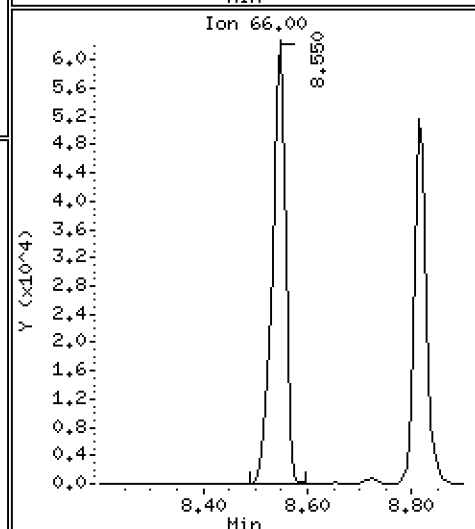
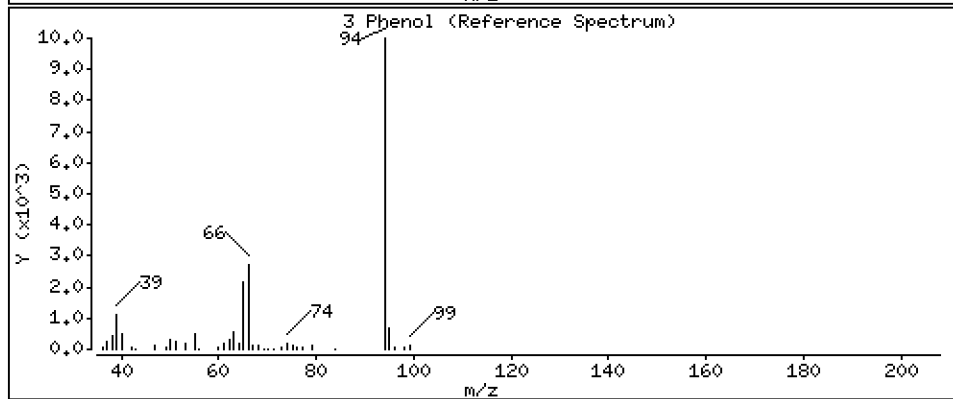
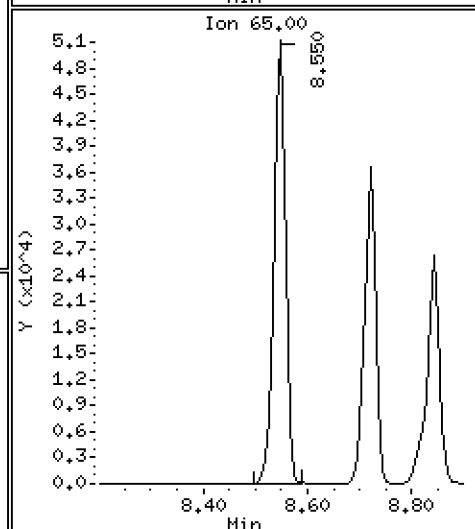
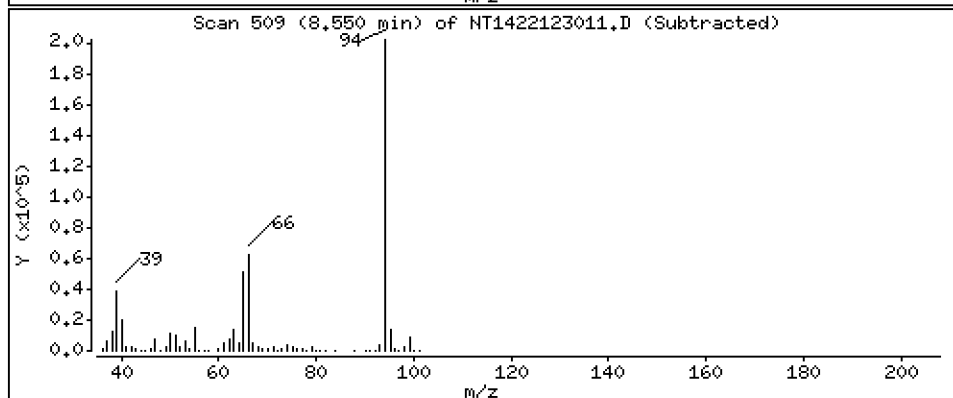
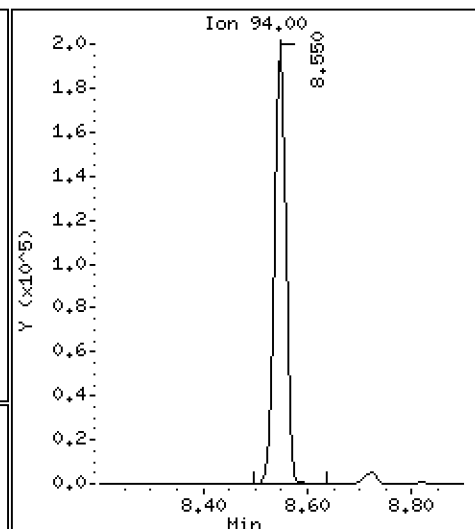
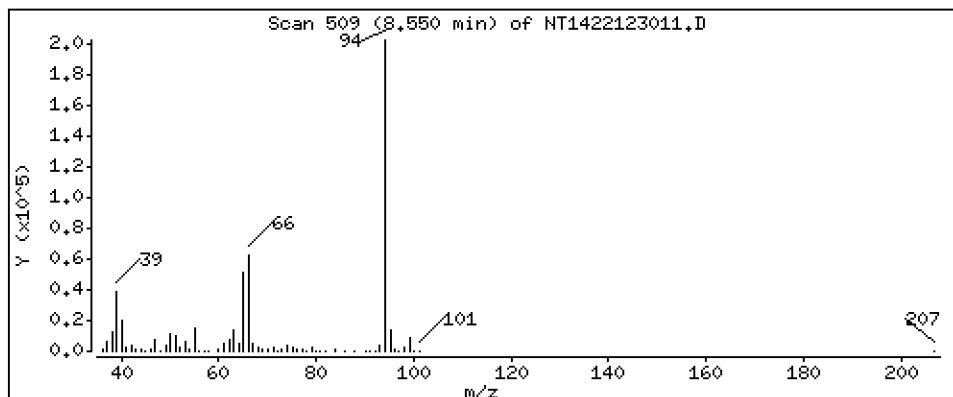
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

3 Phenol

Concentration: 4.351 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

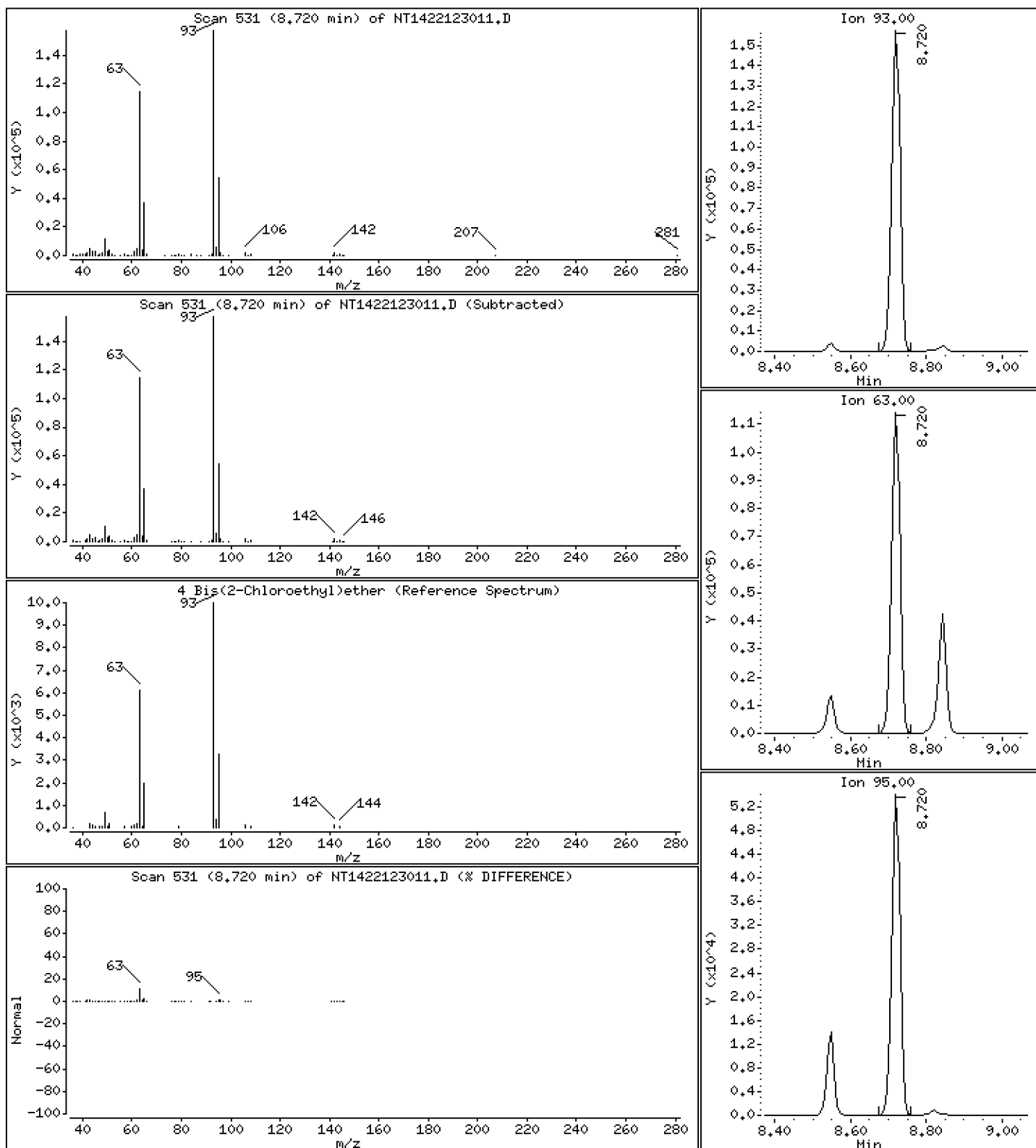
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,095 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

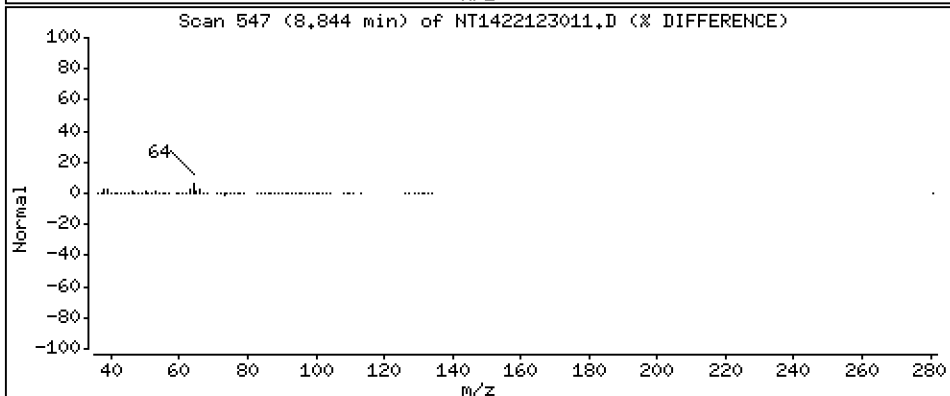
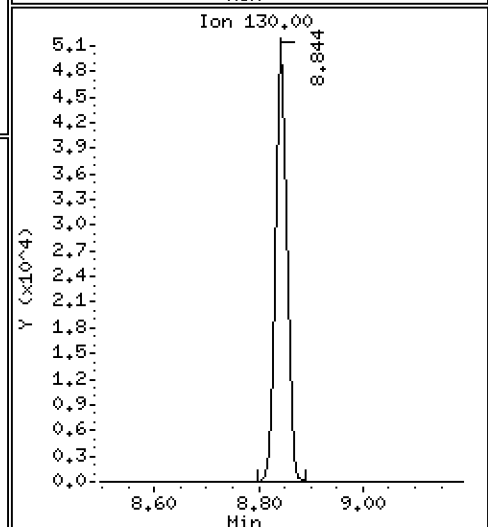
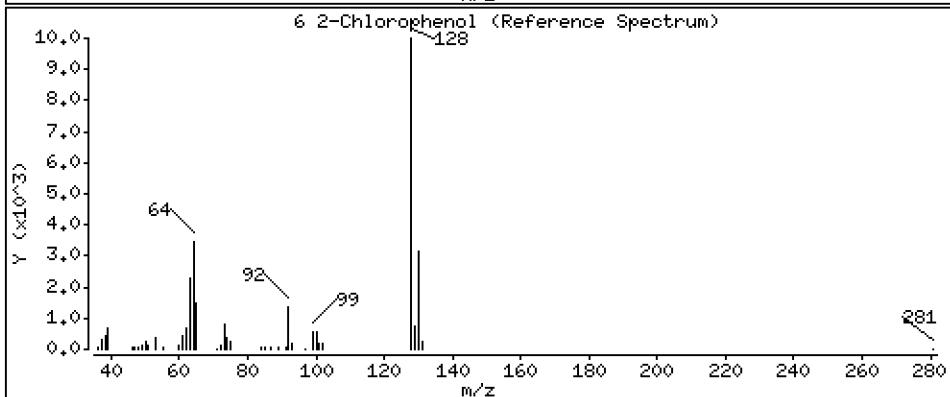
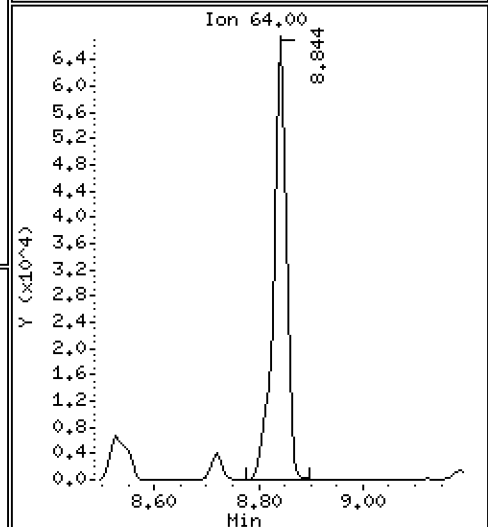
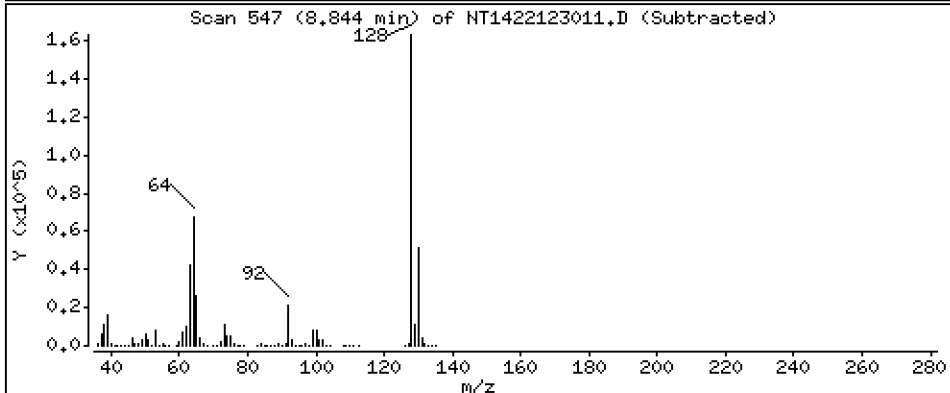
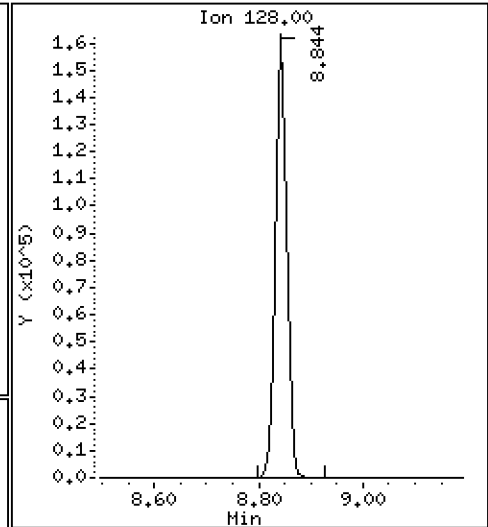
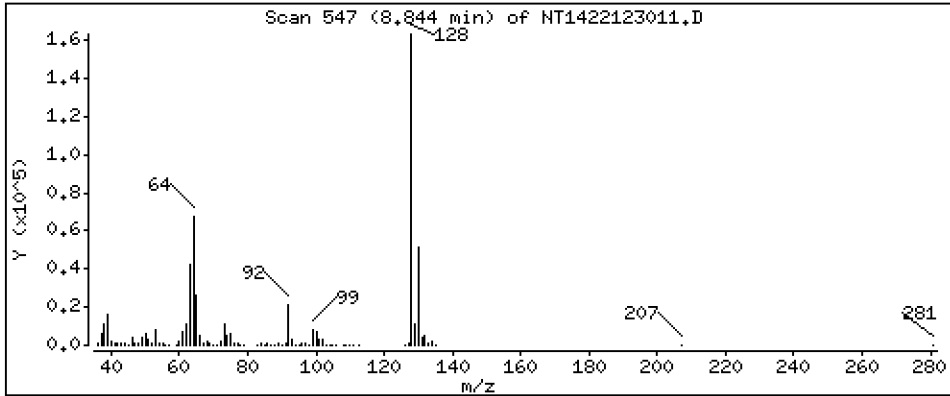
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,461 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

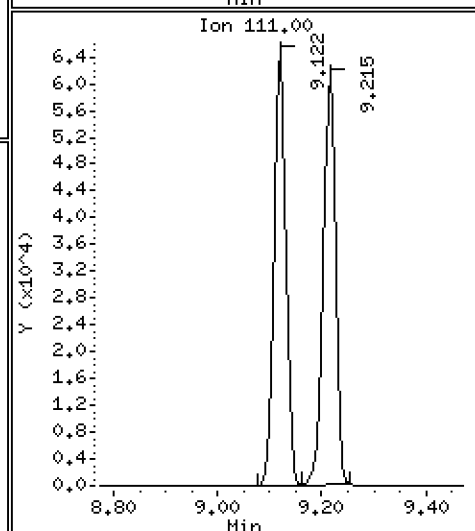
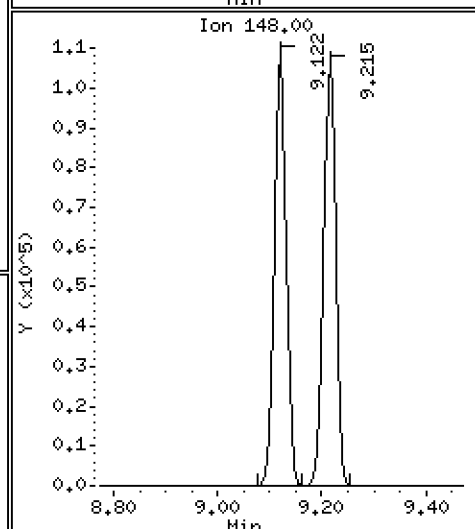
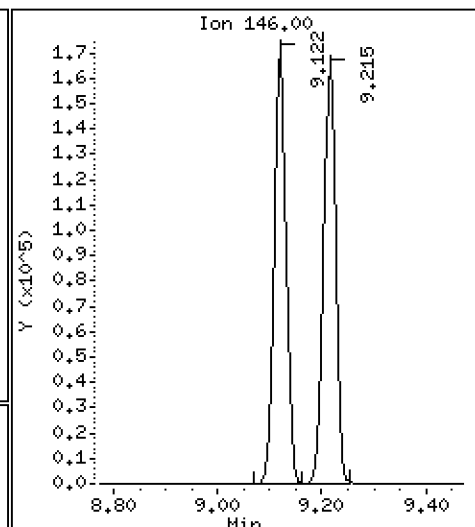
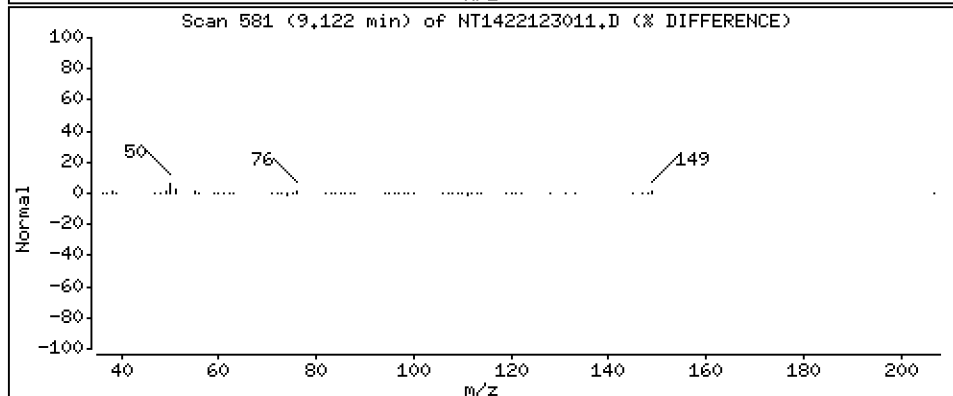
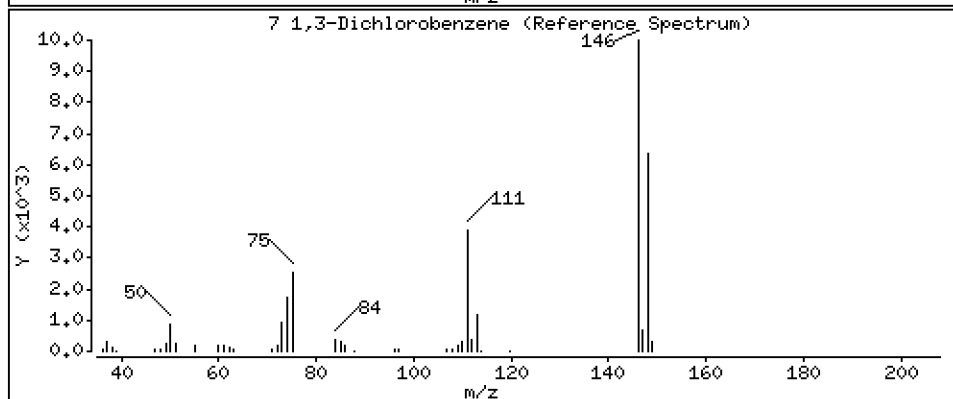
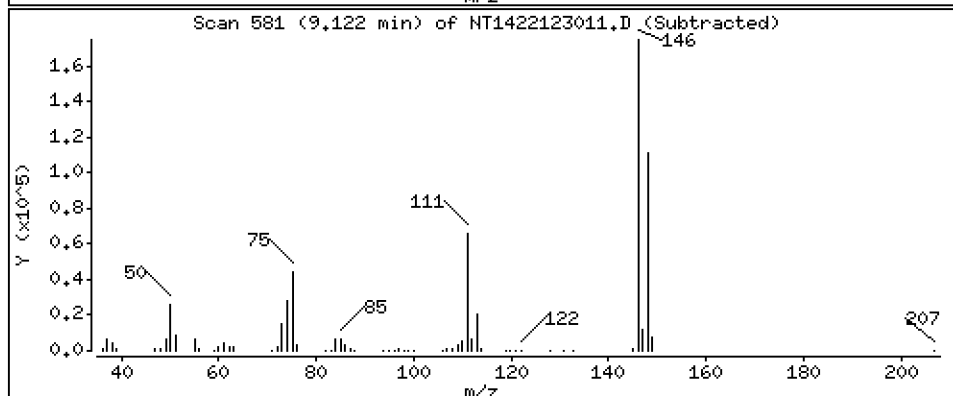
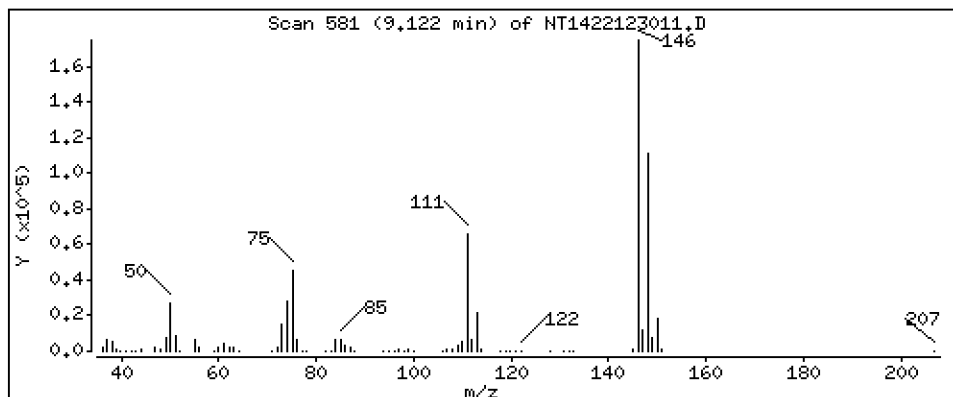
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,754 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

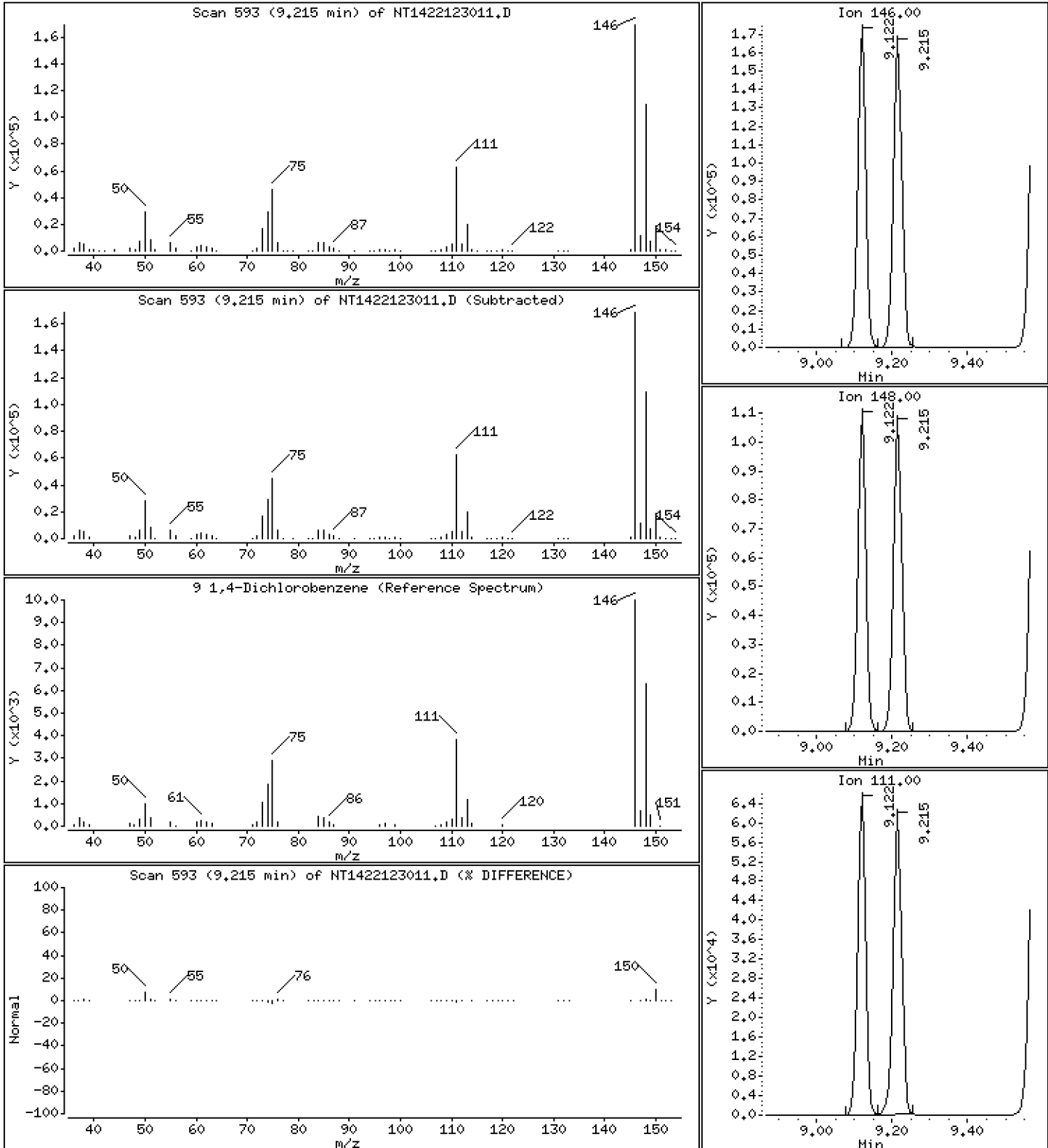
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,773 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

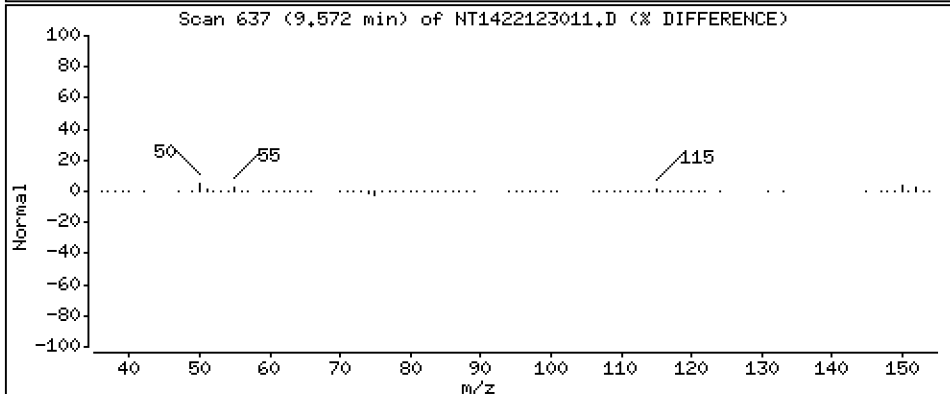
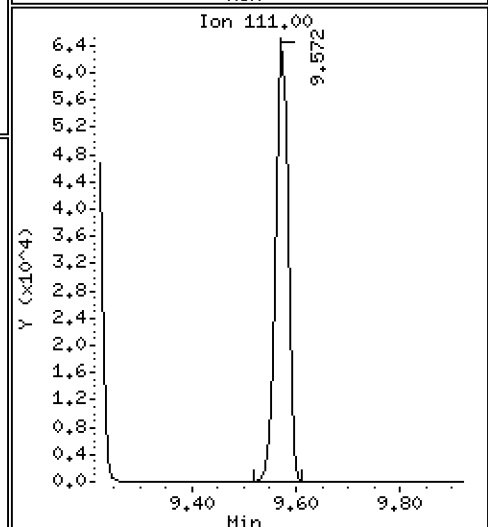
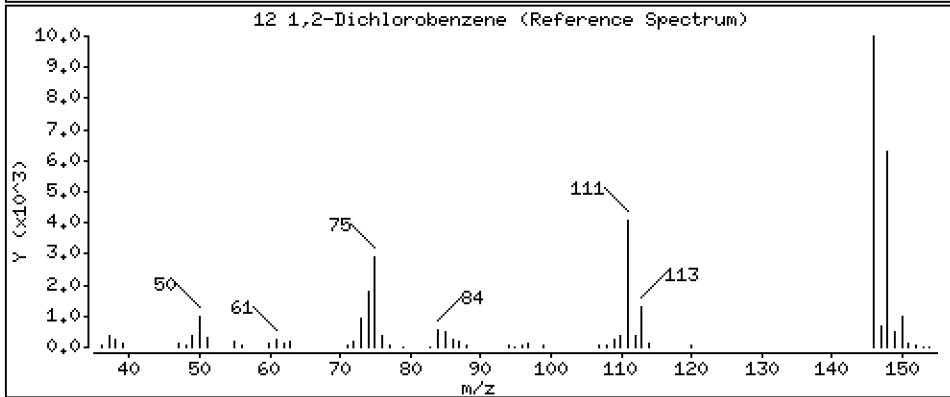
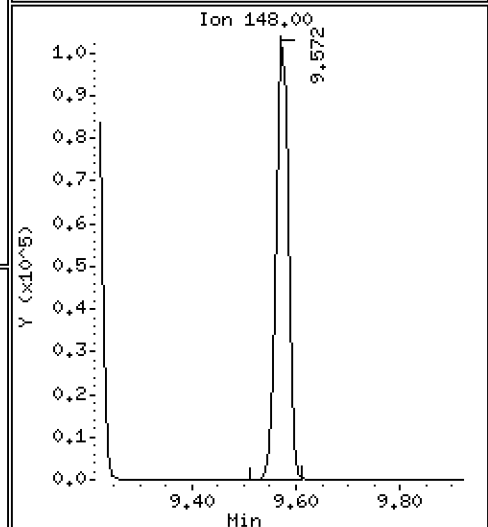
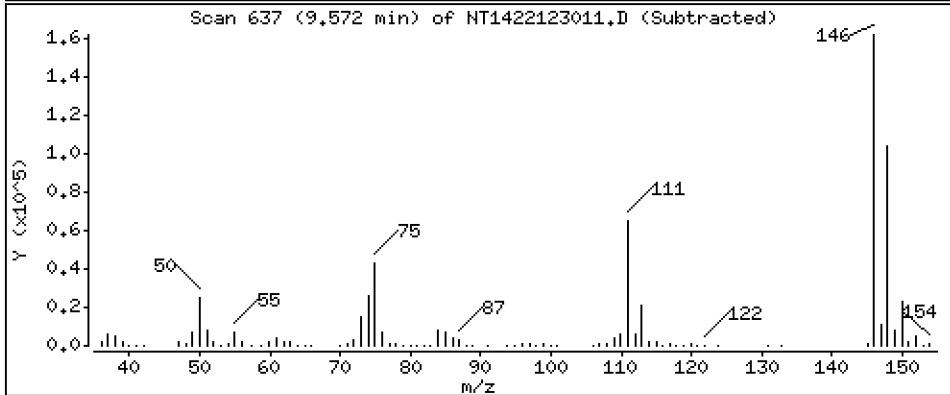
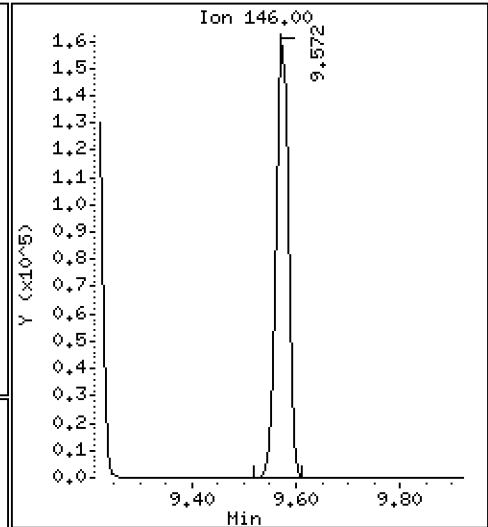
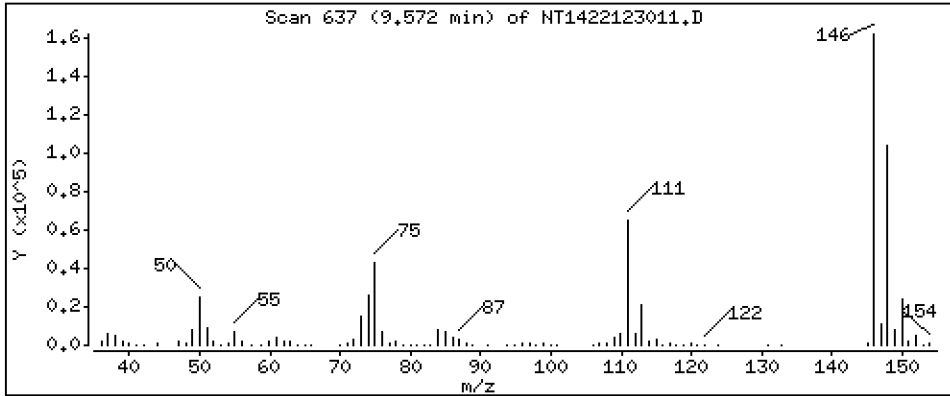
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,767 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

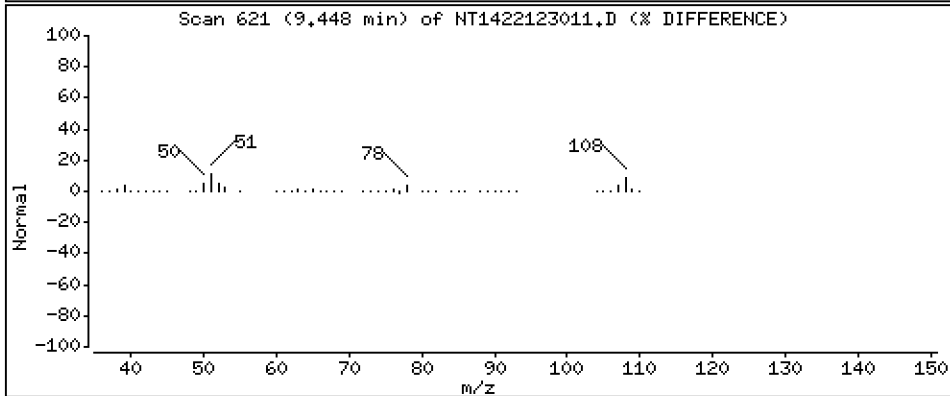
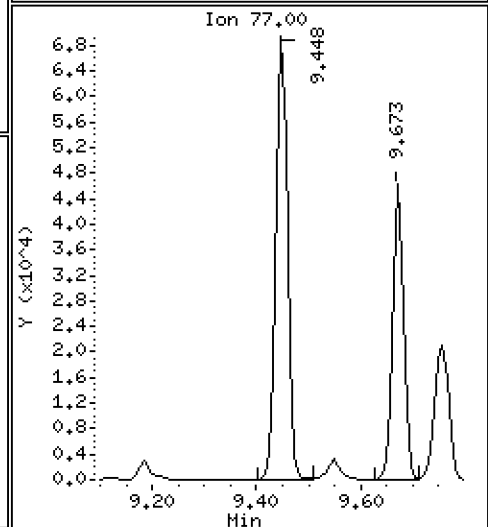
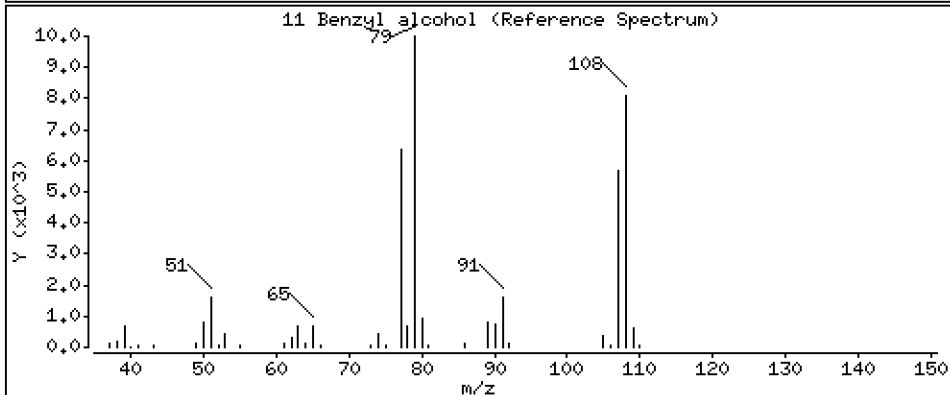
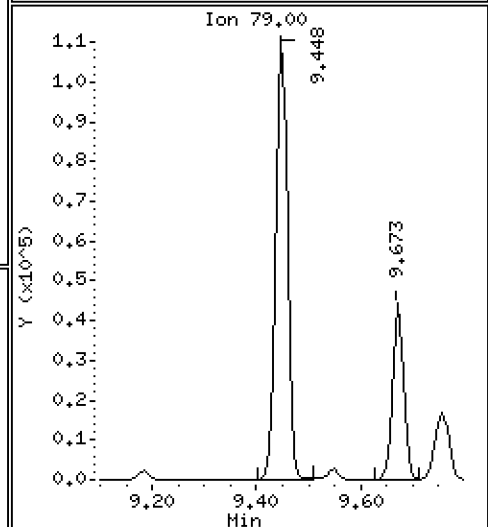
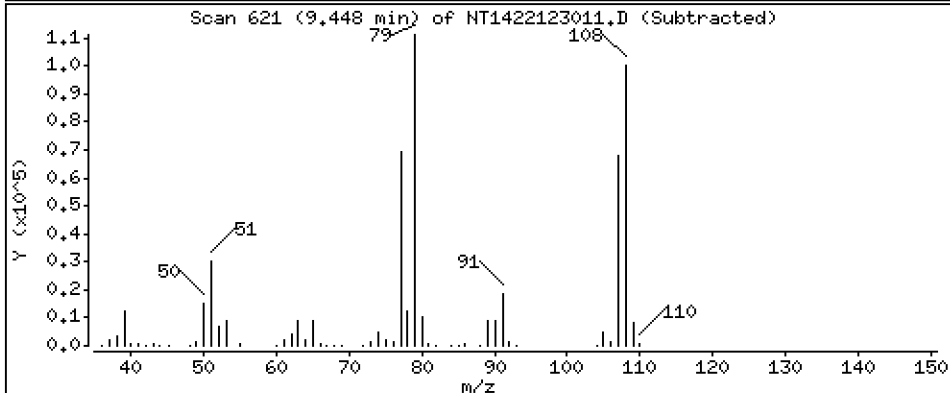
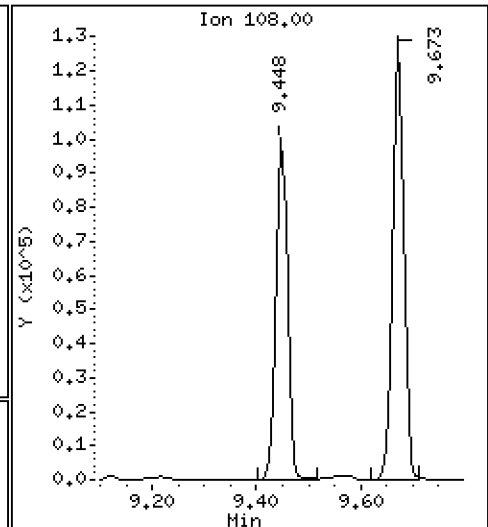
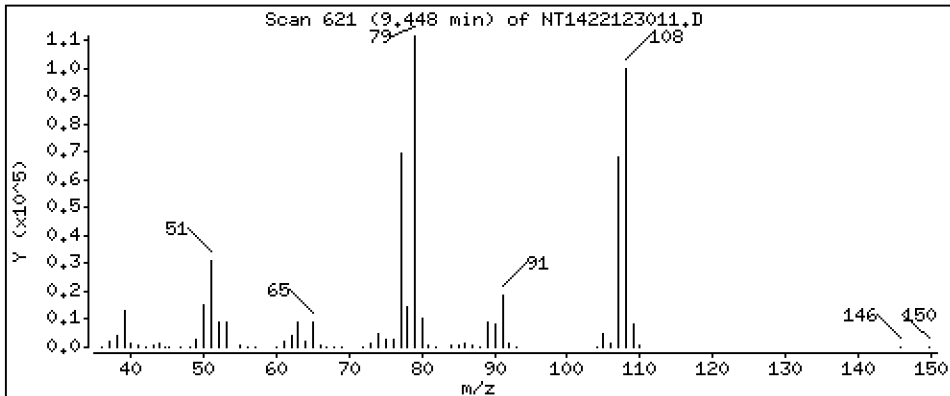
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.980 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

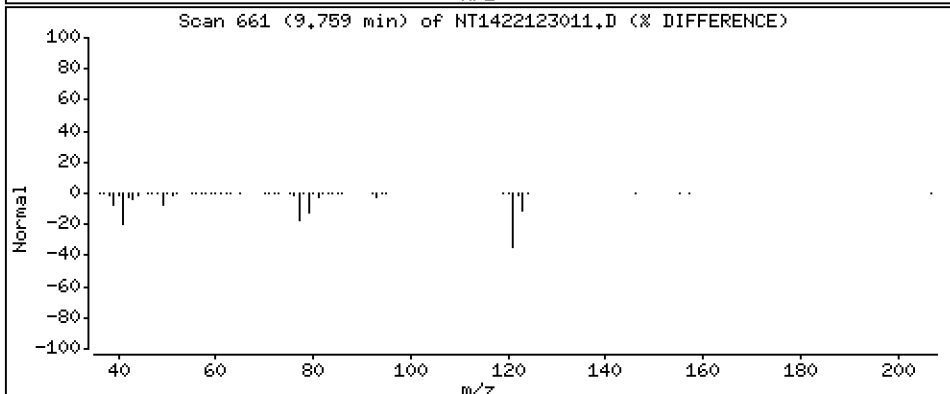
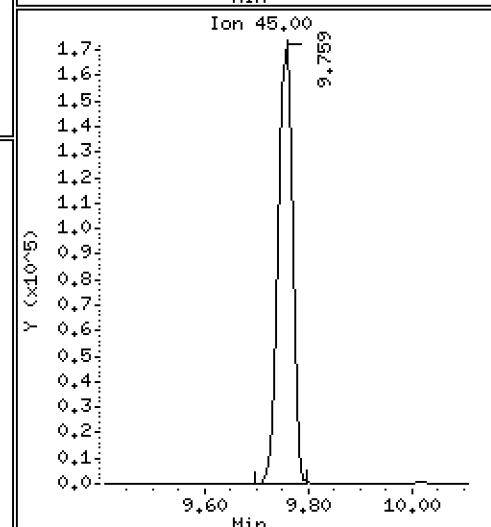
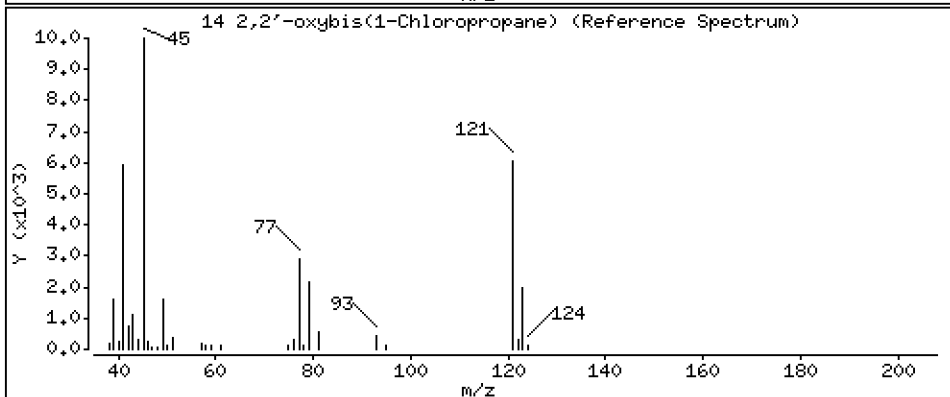
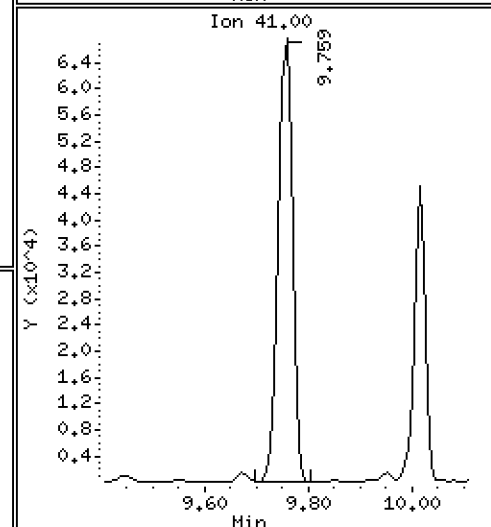
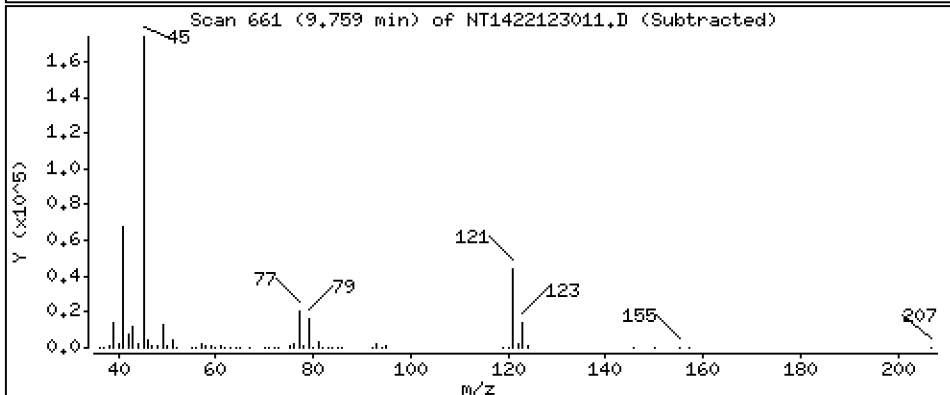
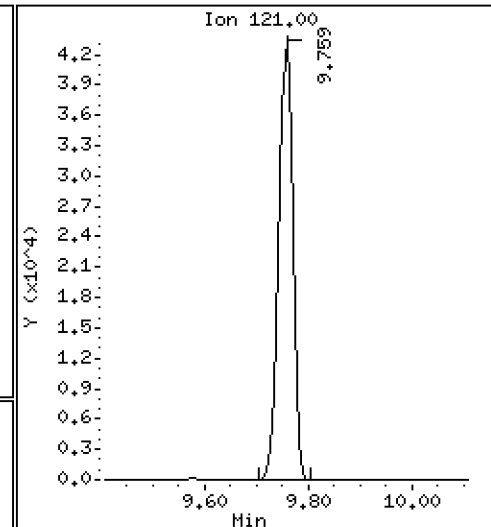
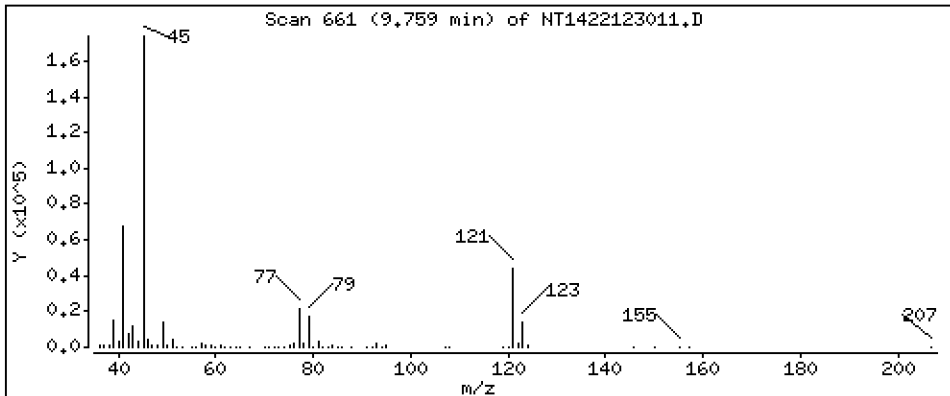
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,193 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

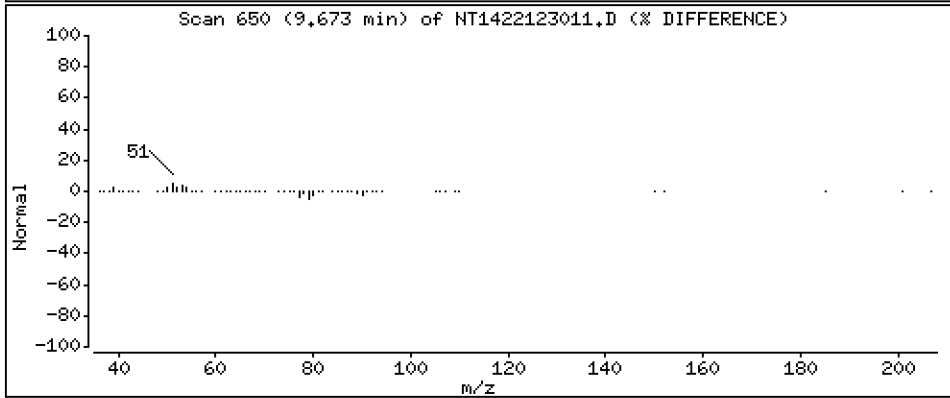
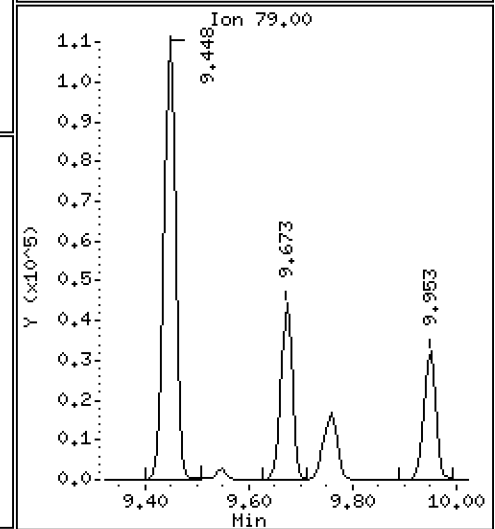
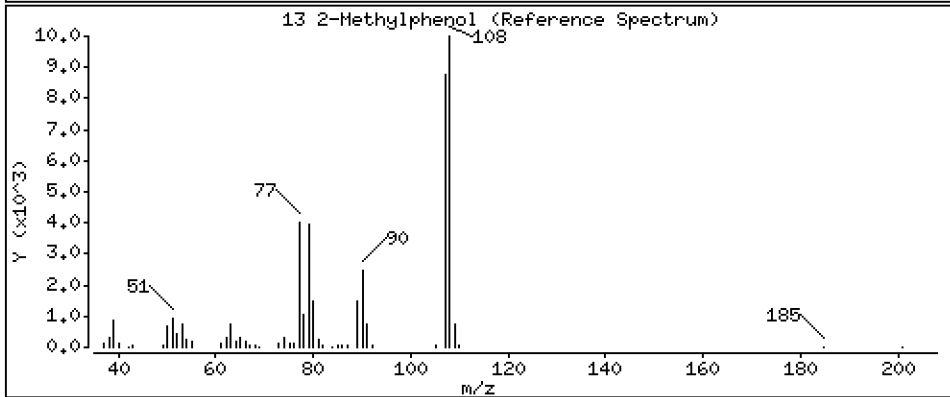
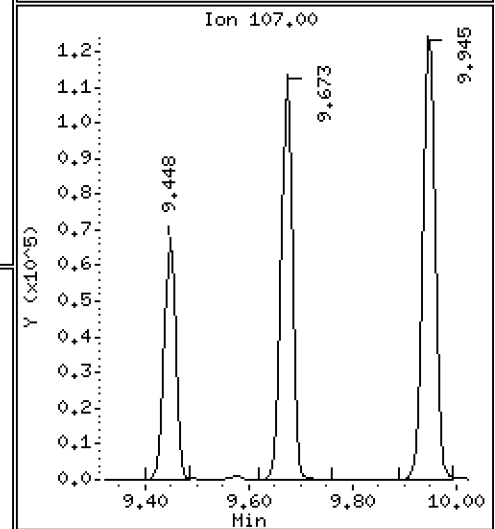
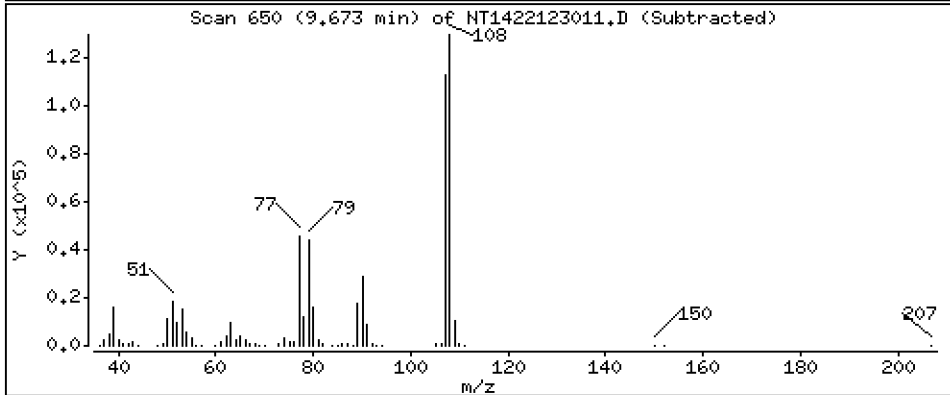
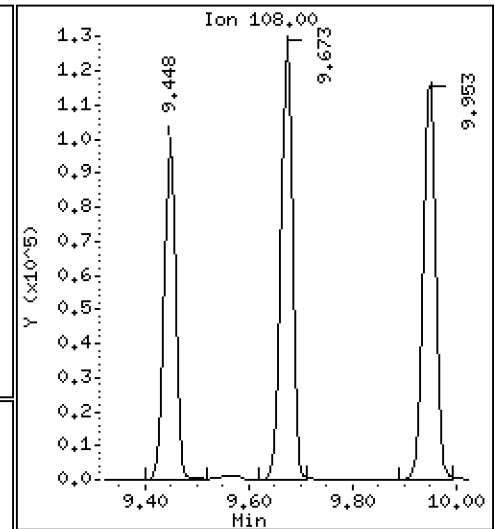
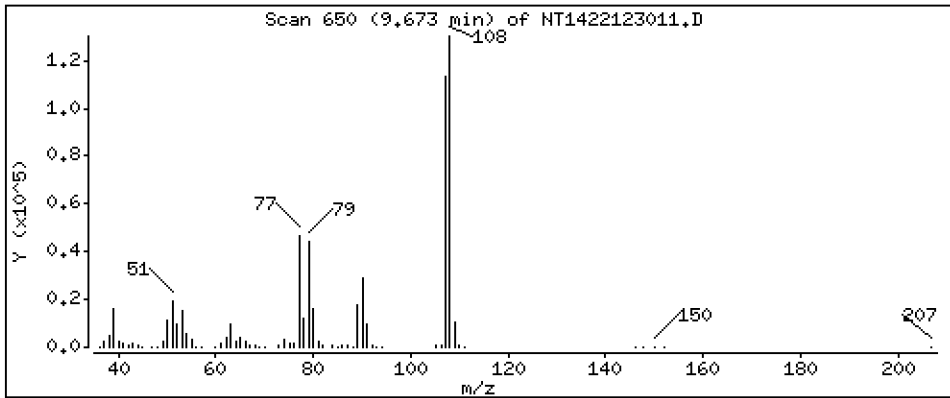
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.927 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

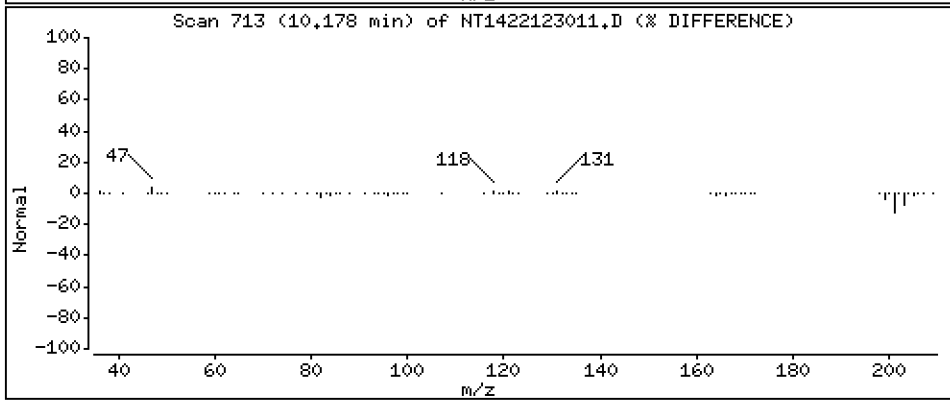
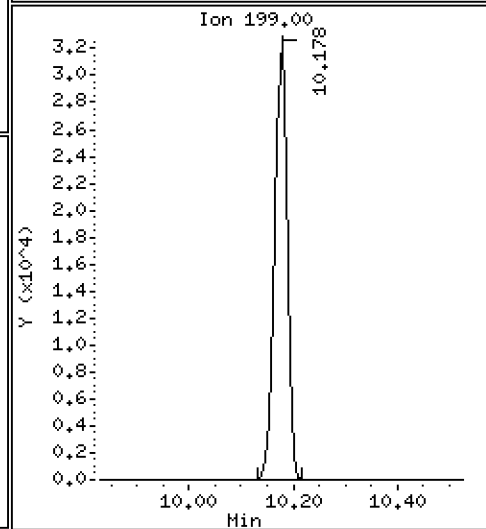
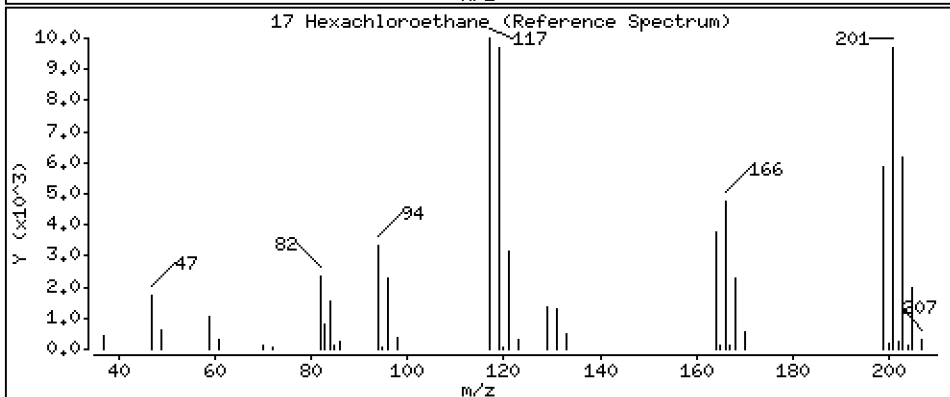
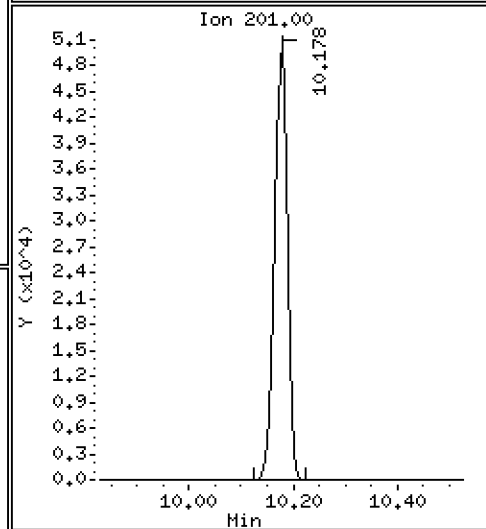
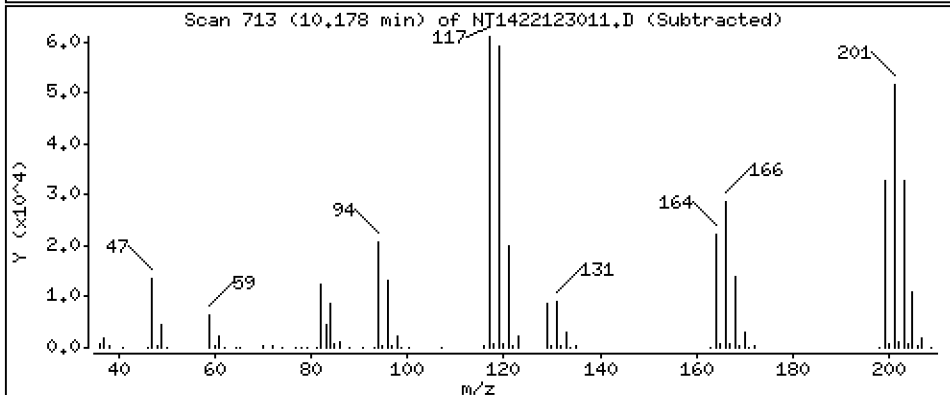
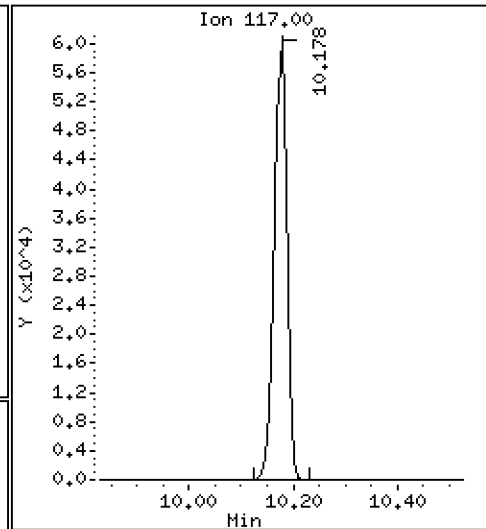
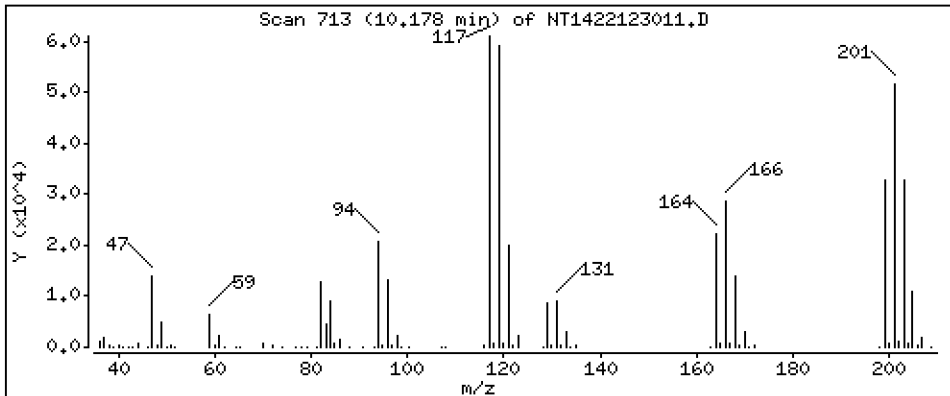
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,929 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

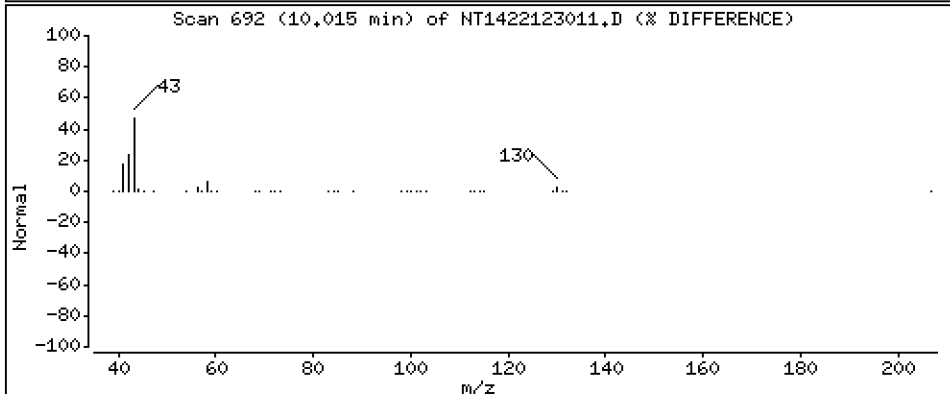
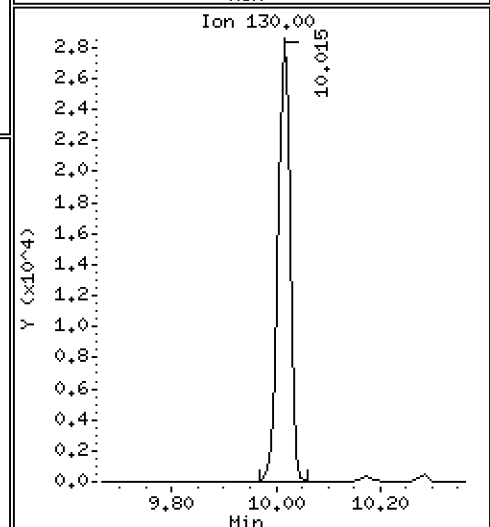
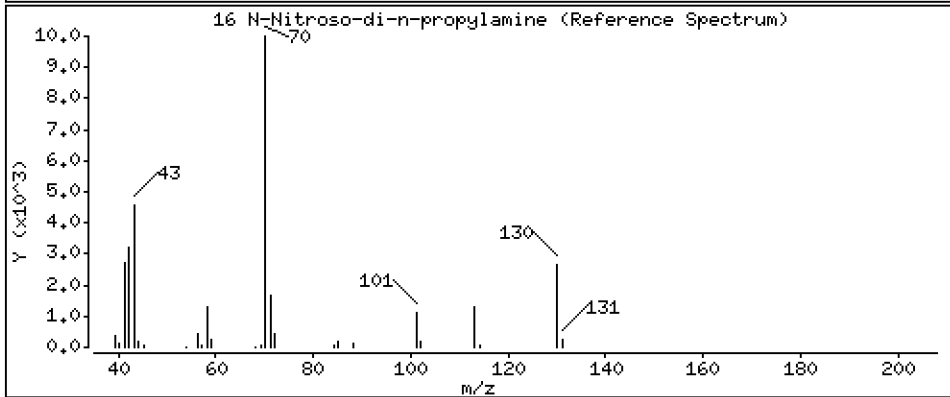
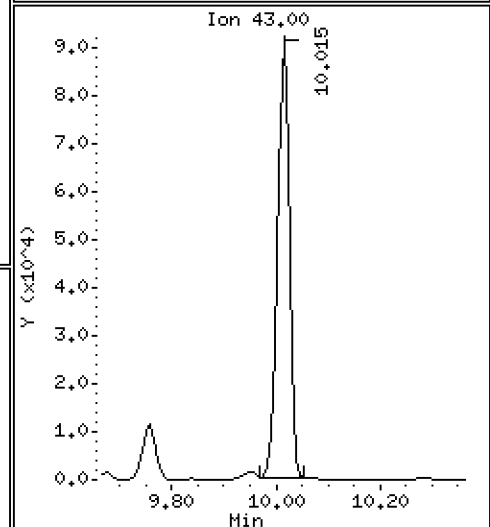
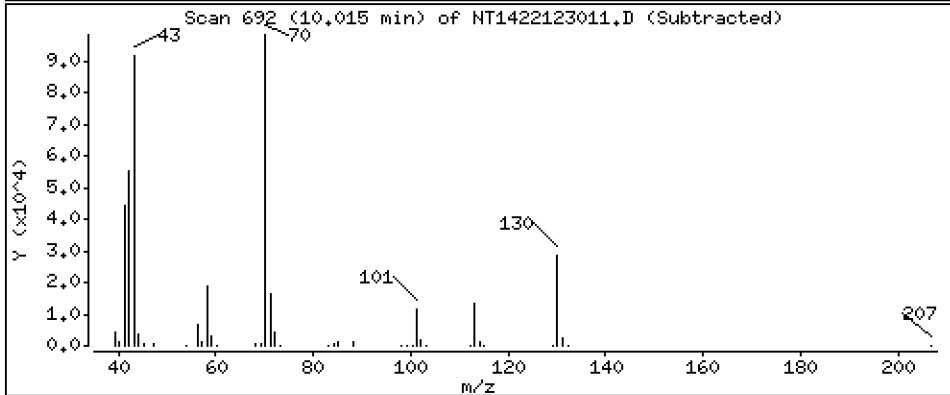
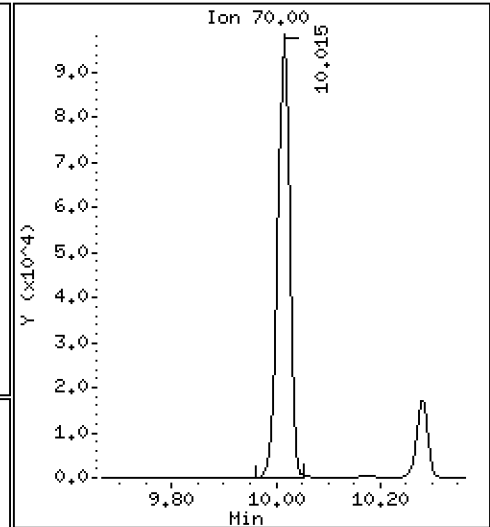
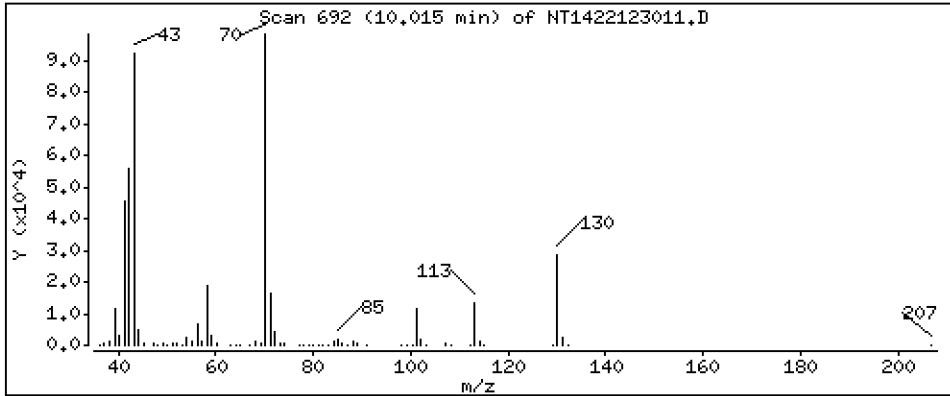
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,128 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

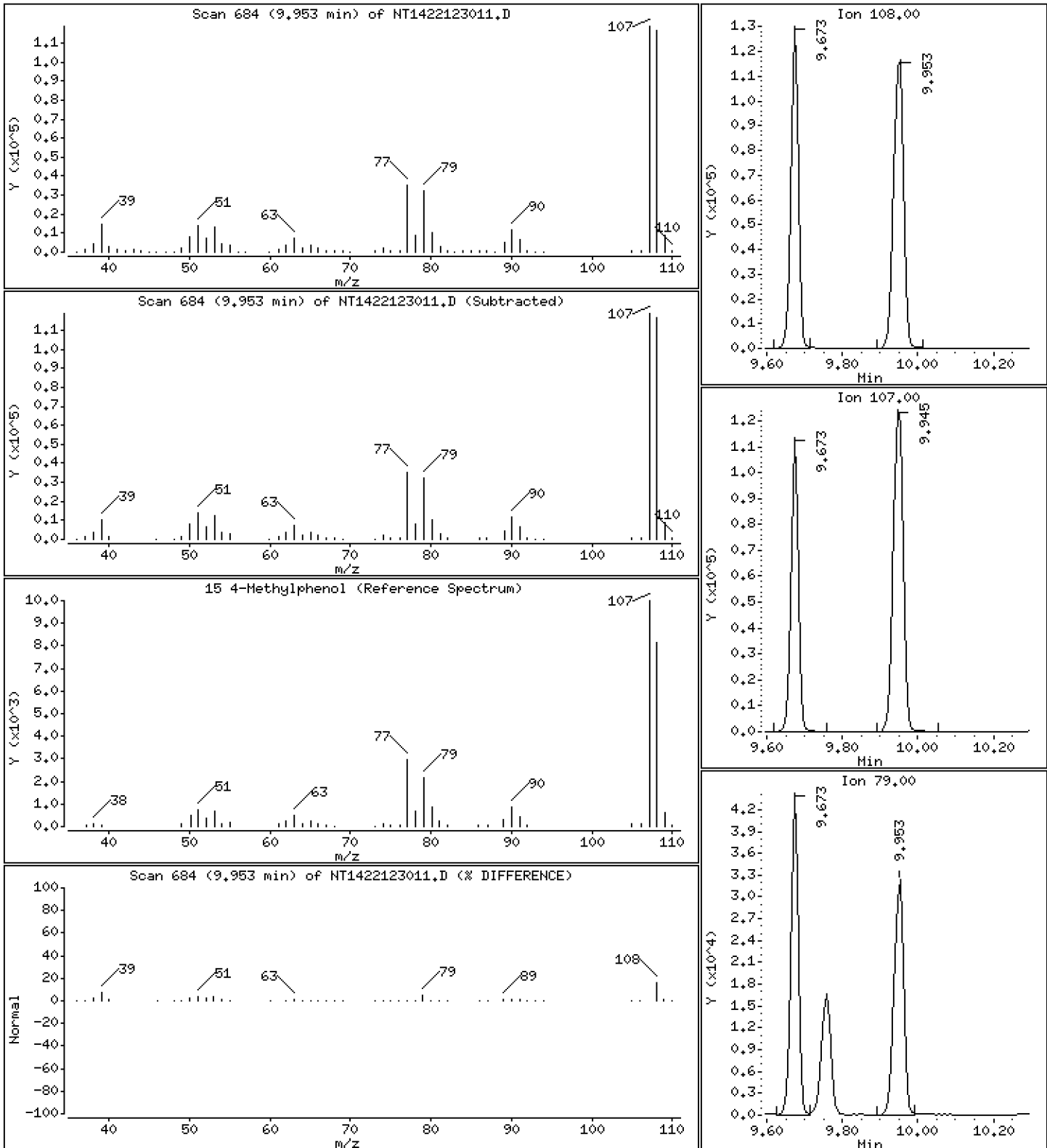
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,122 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

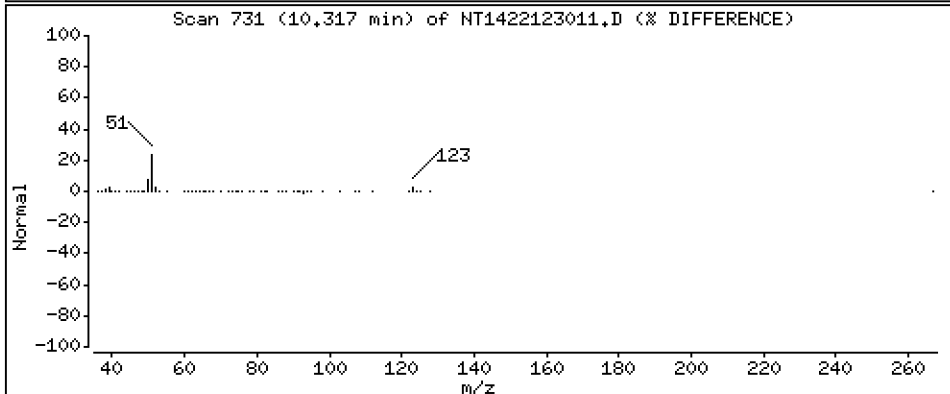
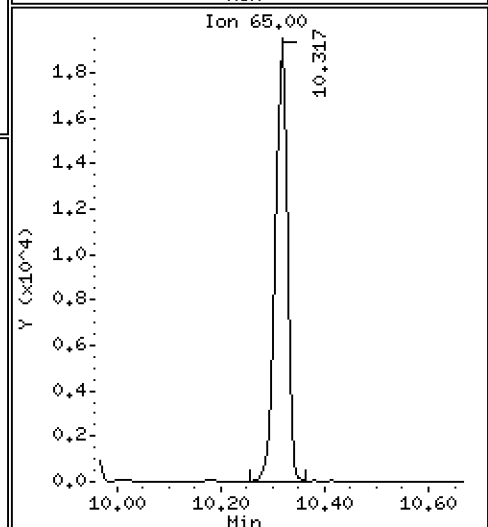
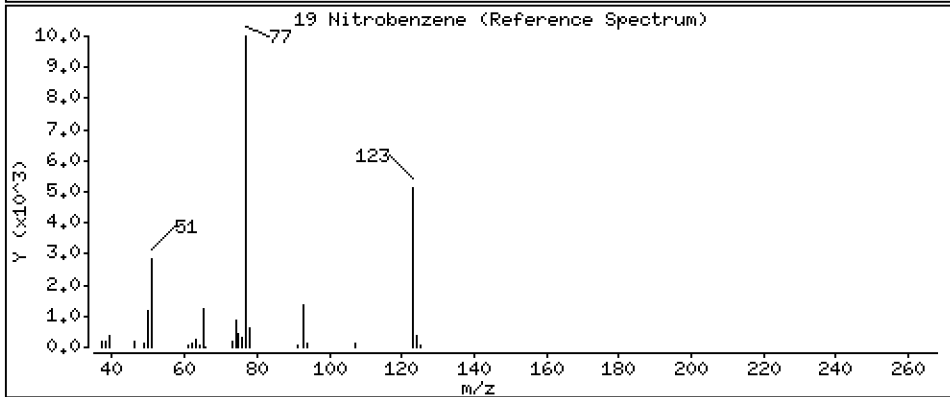
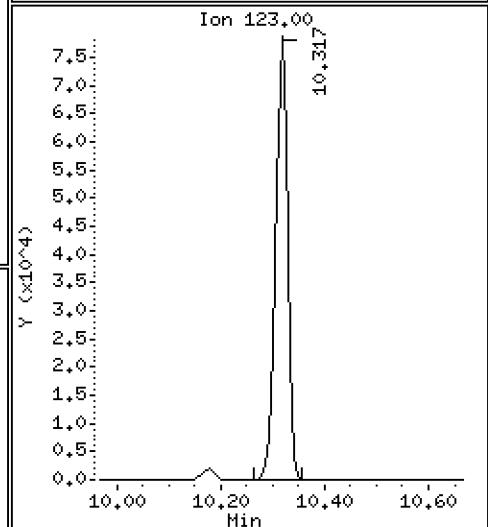
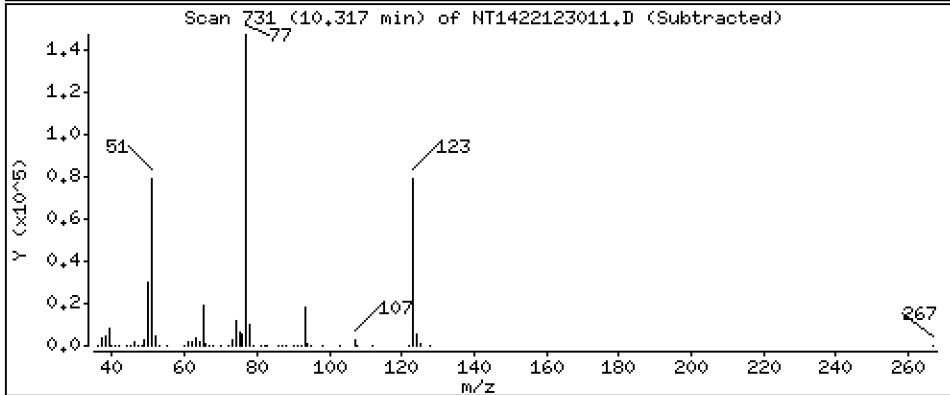
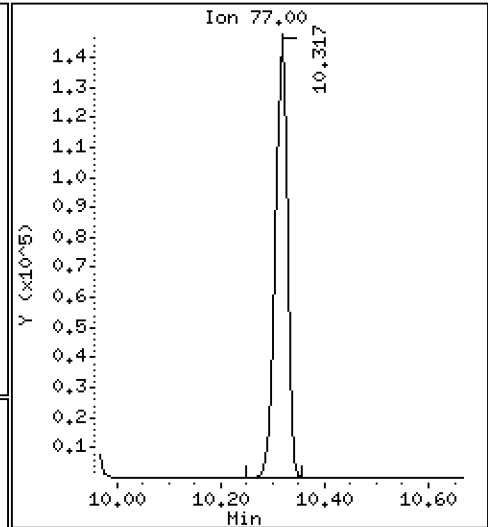
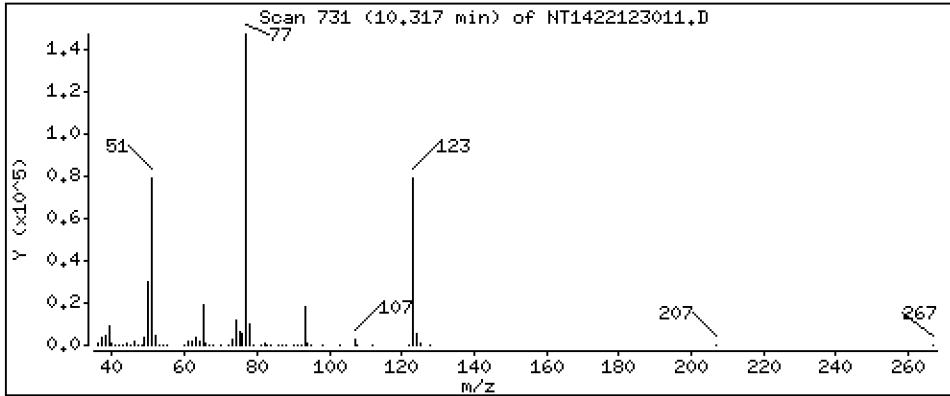
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,880 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

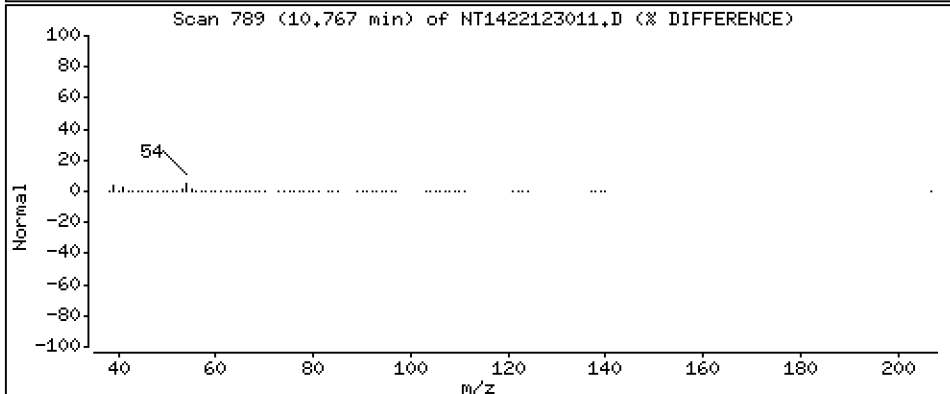
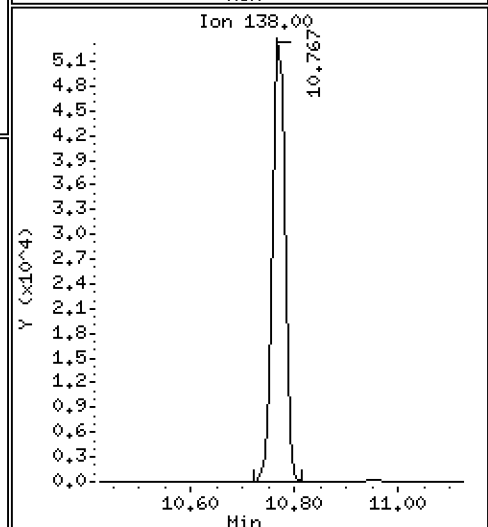
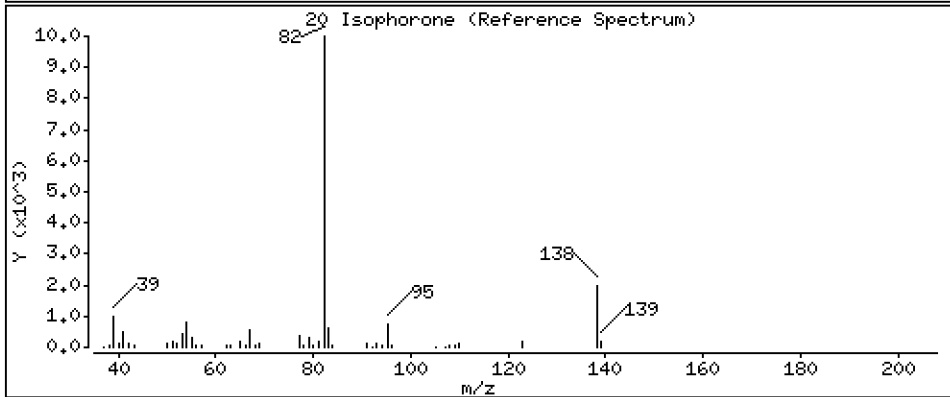
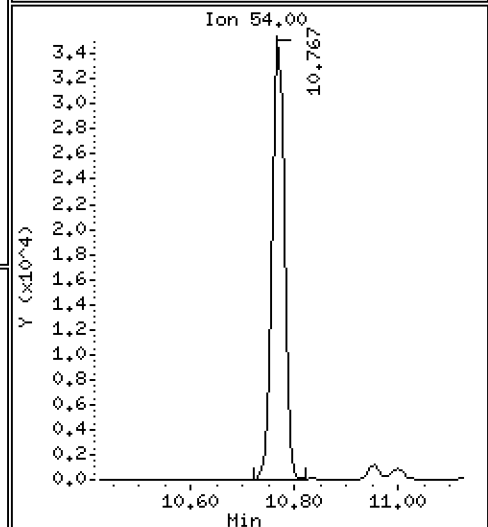
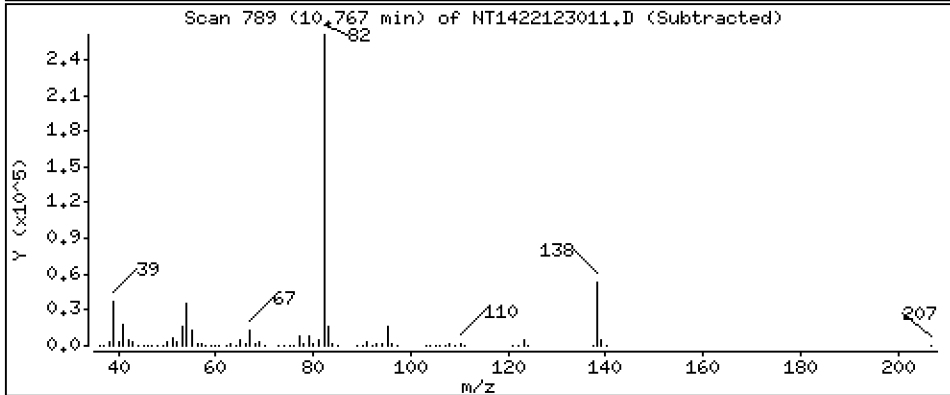
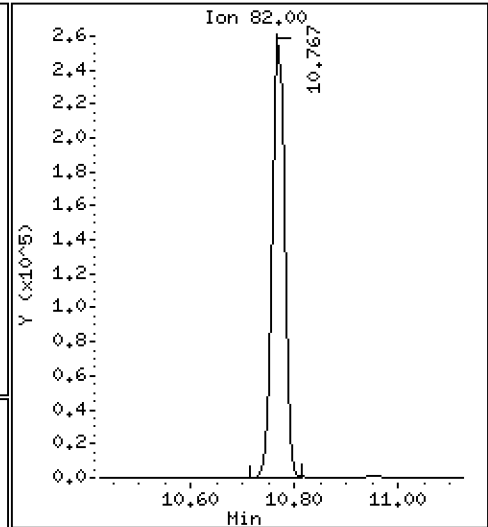
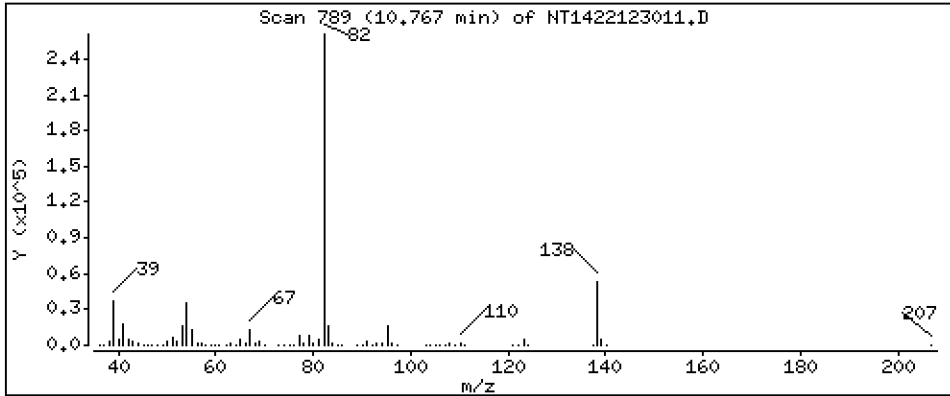
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,946 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

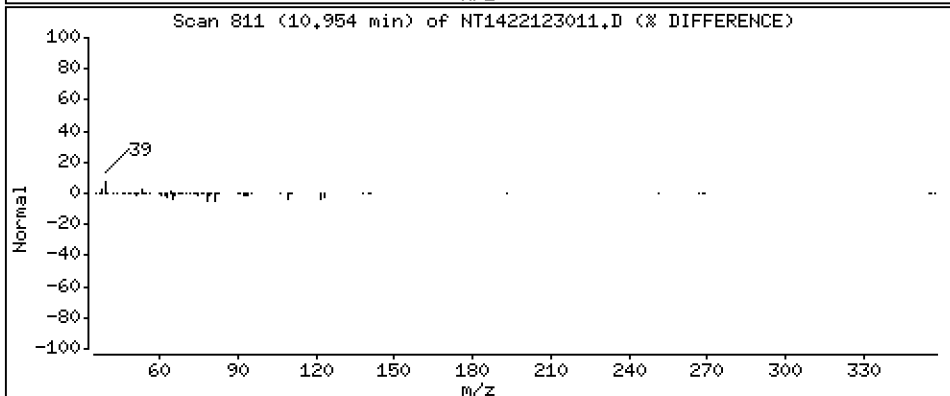
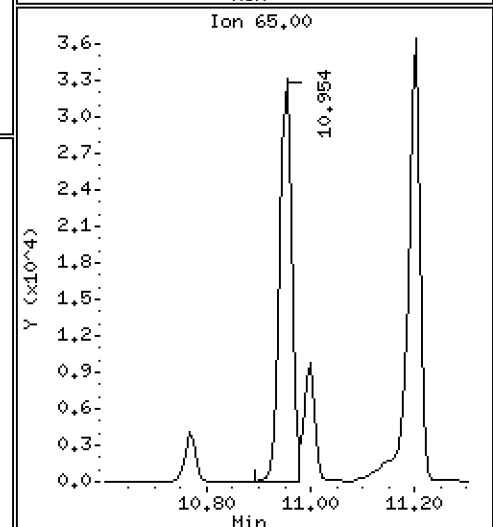
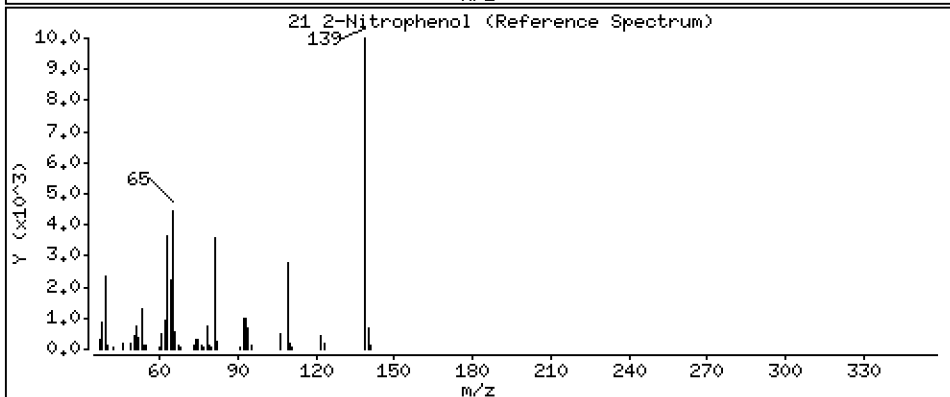
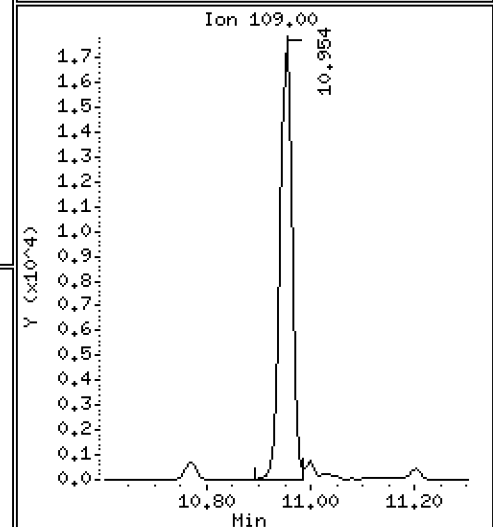
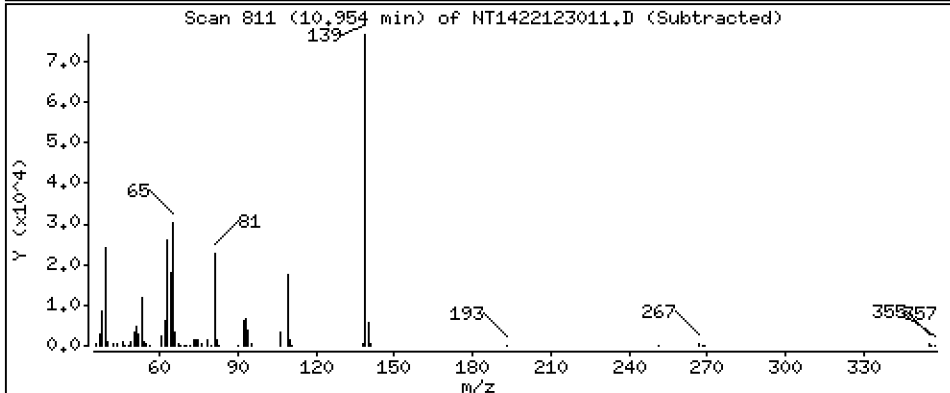
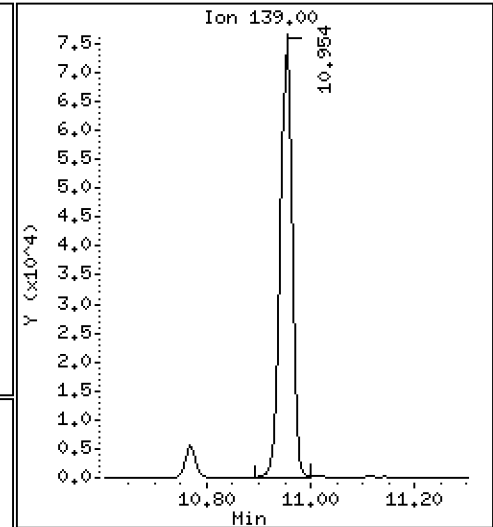
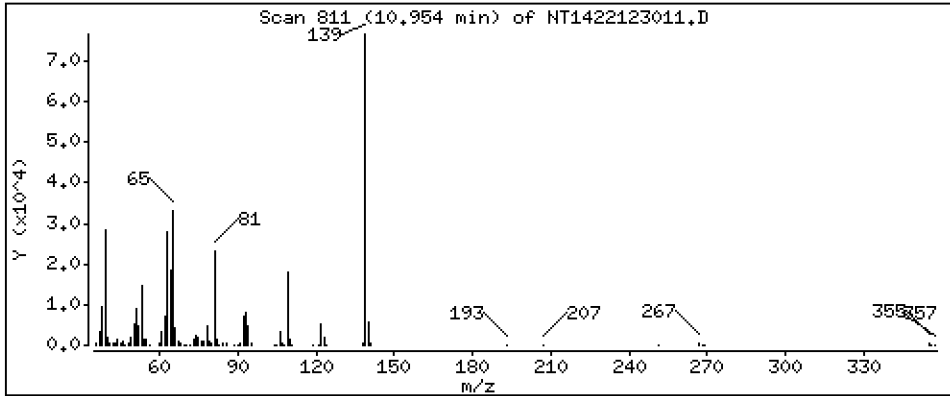
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,556 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

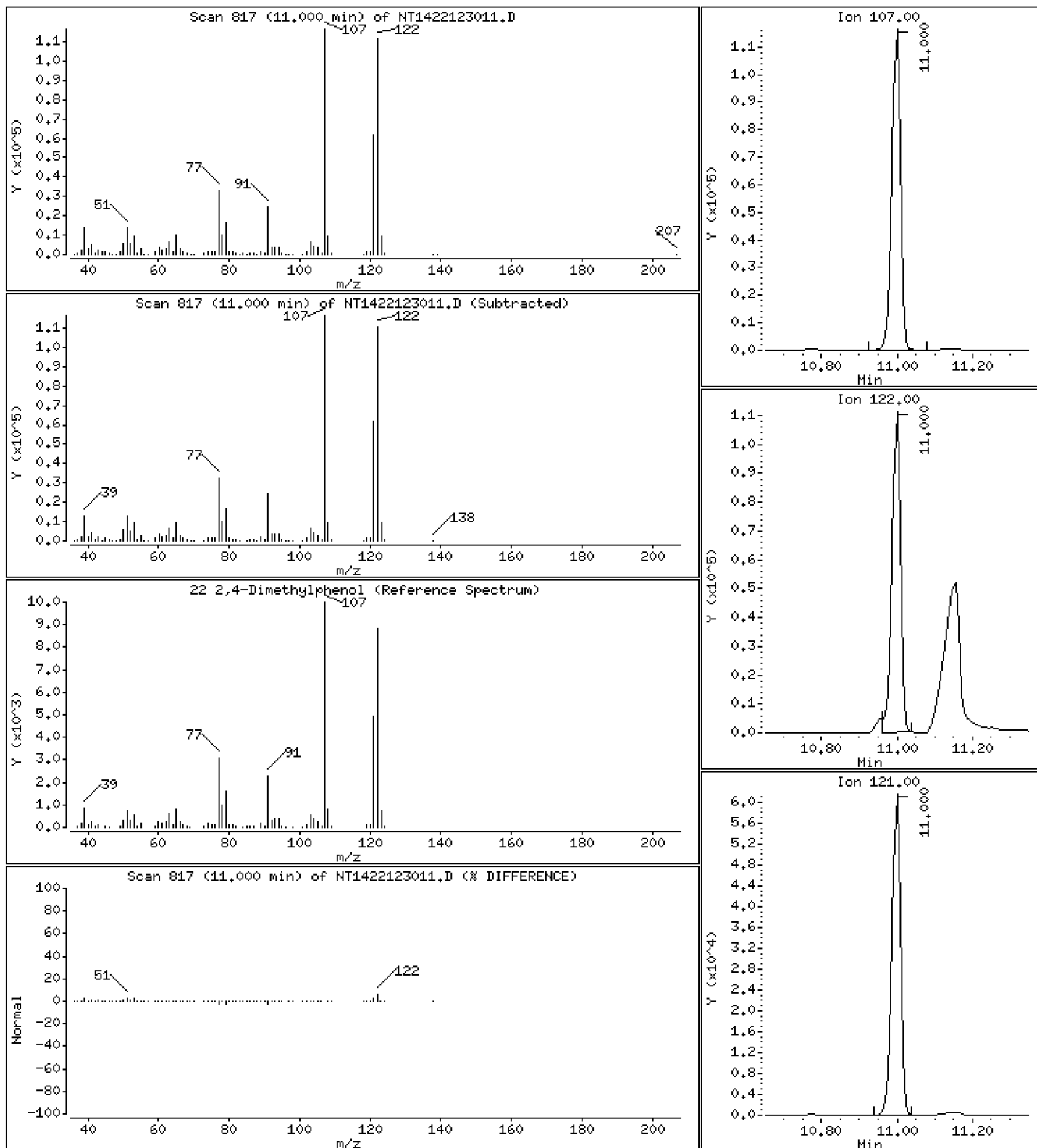
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,663 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

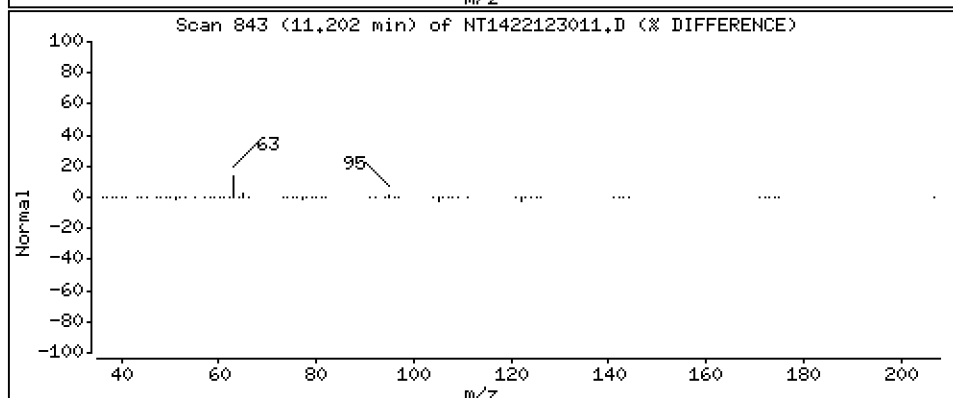
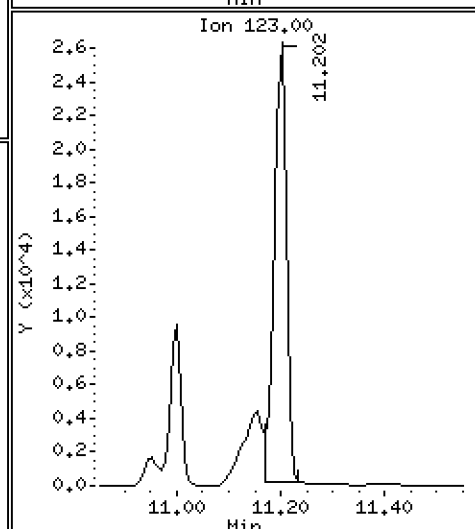
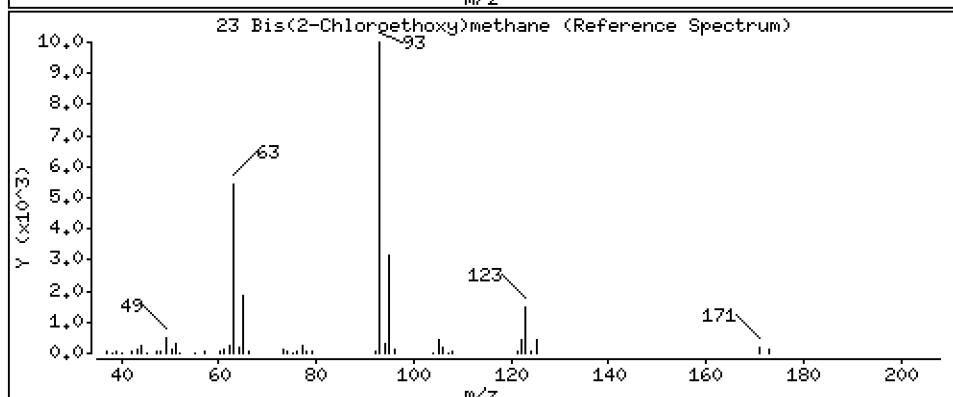
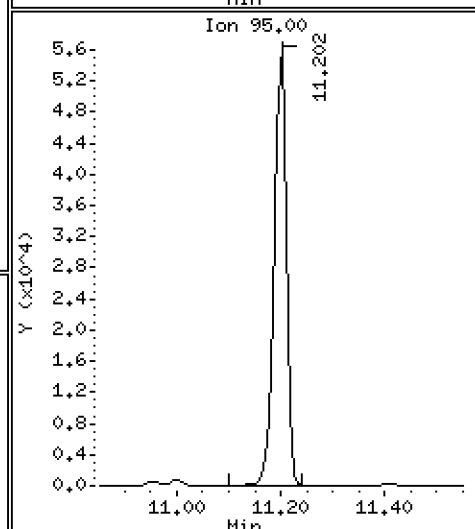
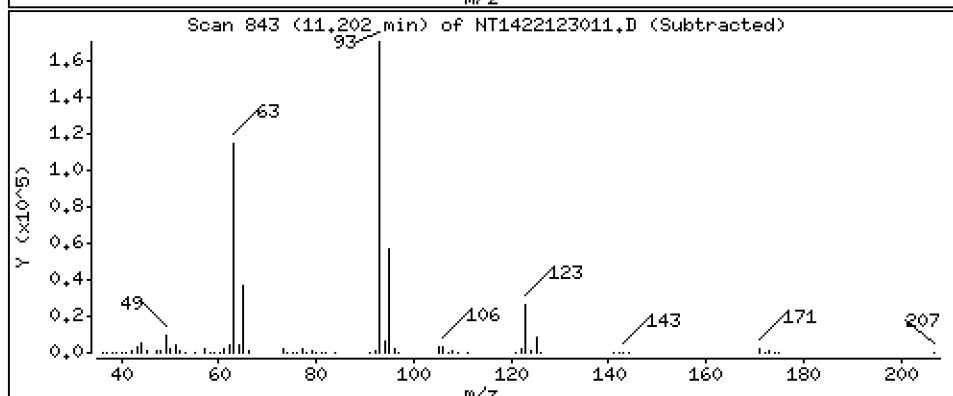
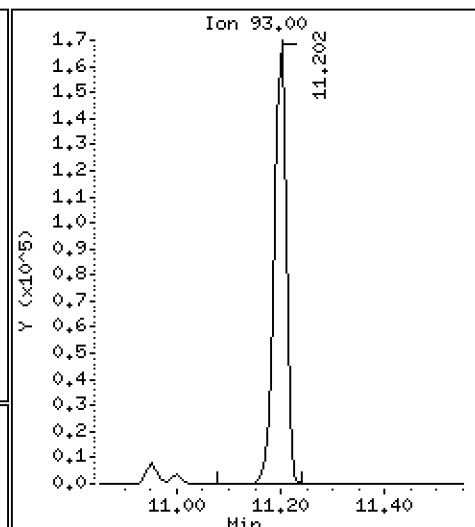
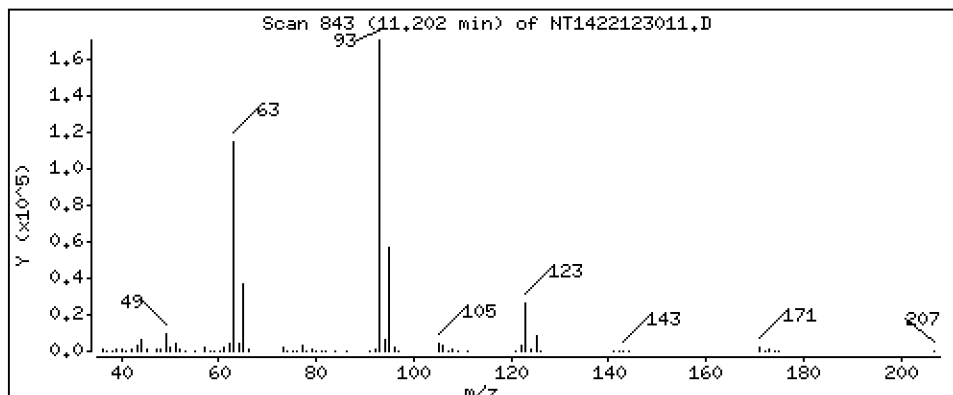
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,670 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

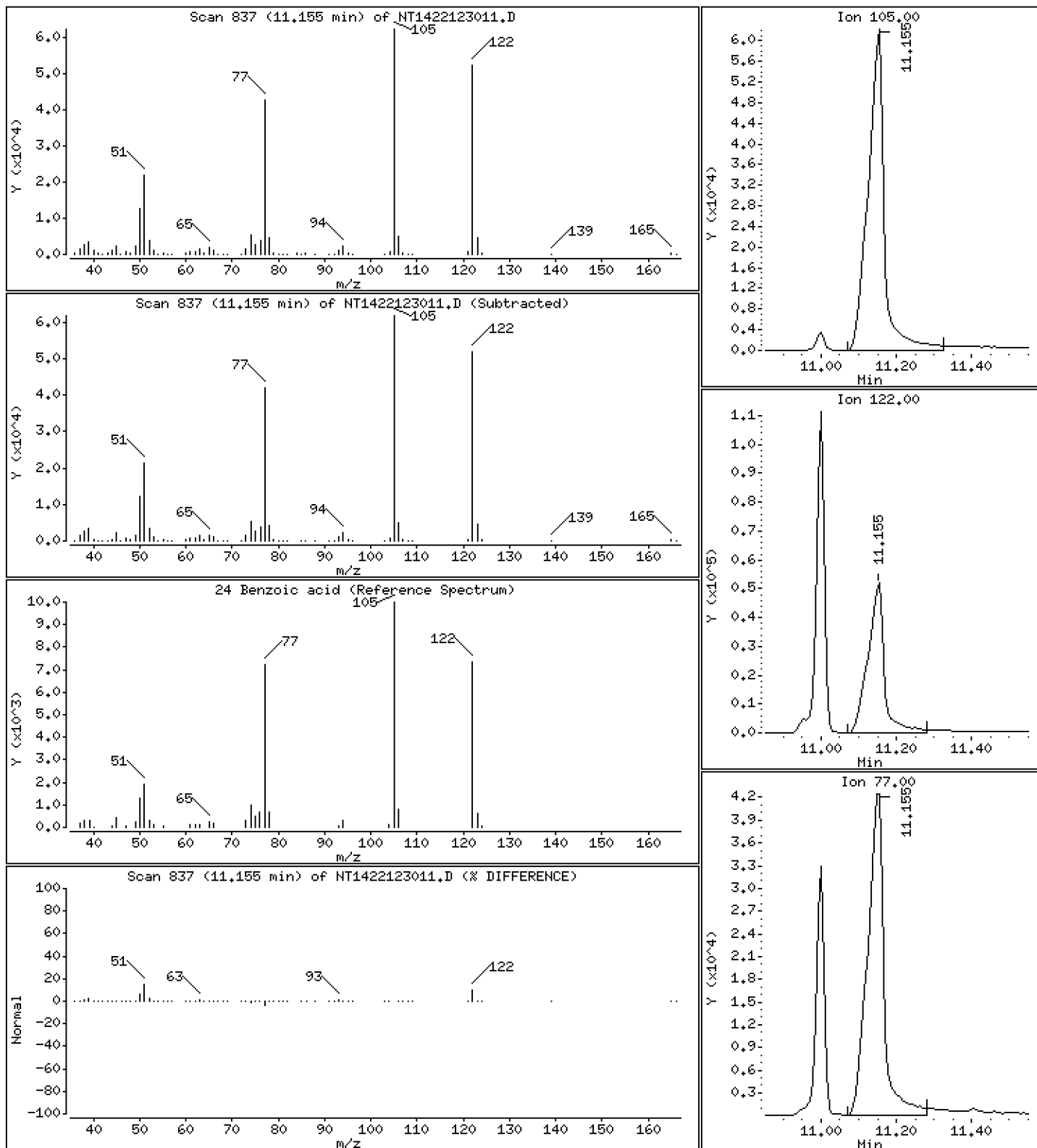
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,385 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

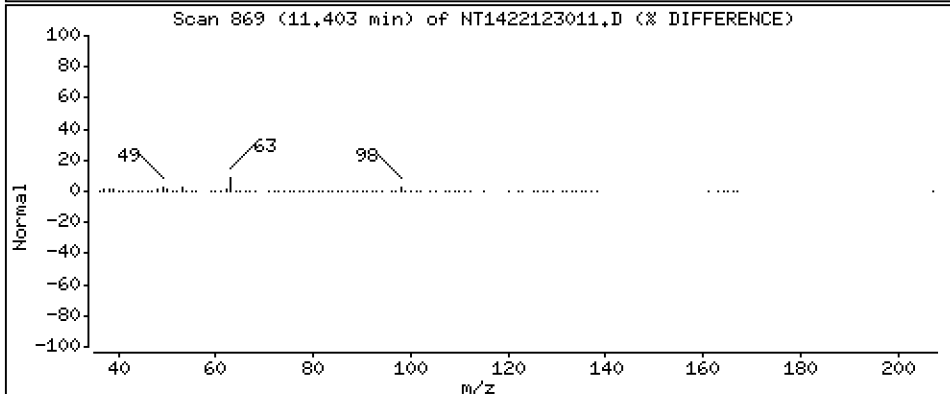
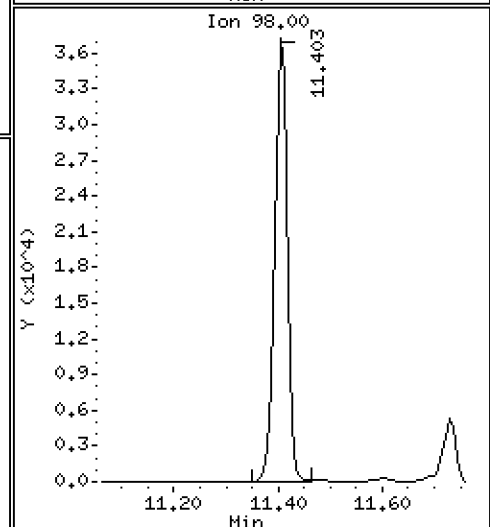
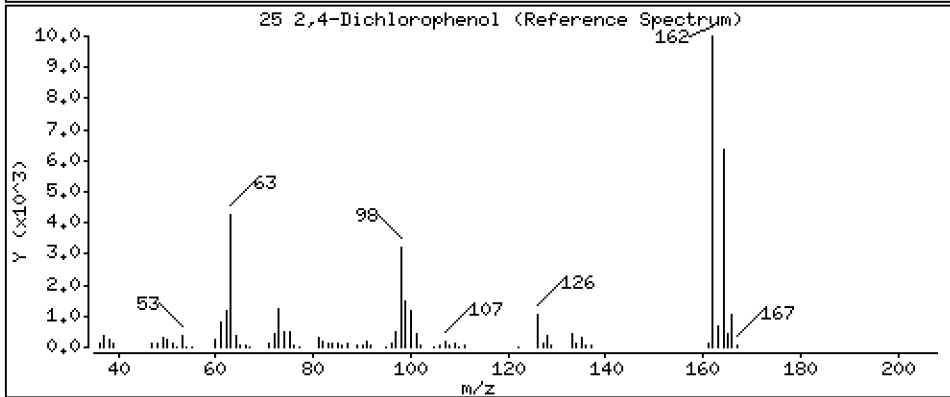
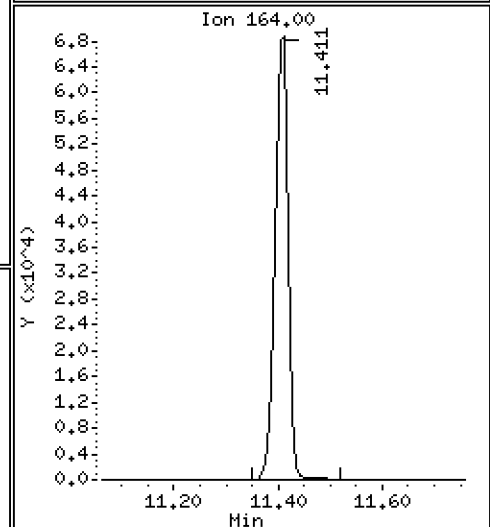
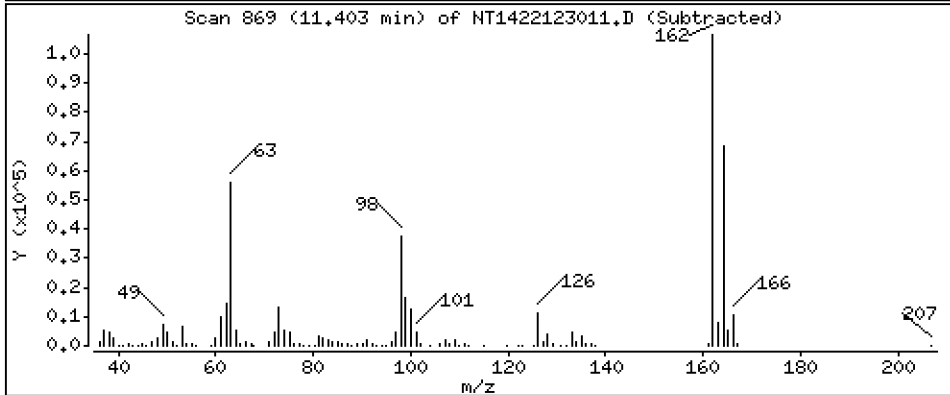
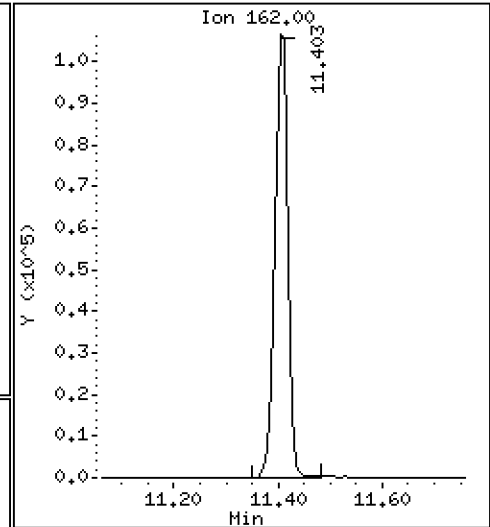
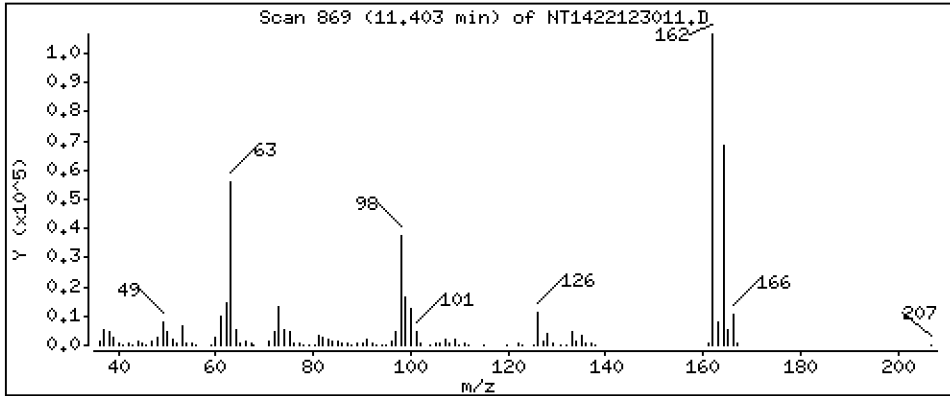
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,388 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

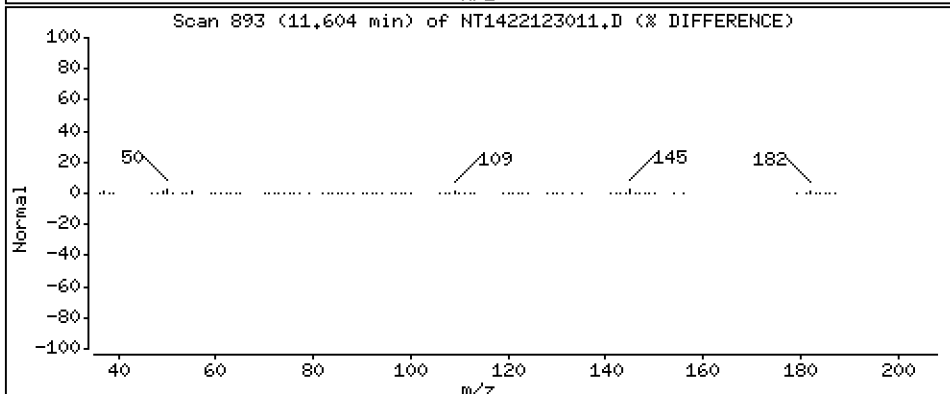
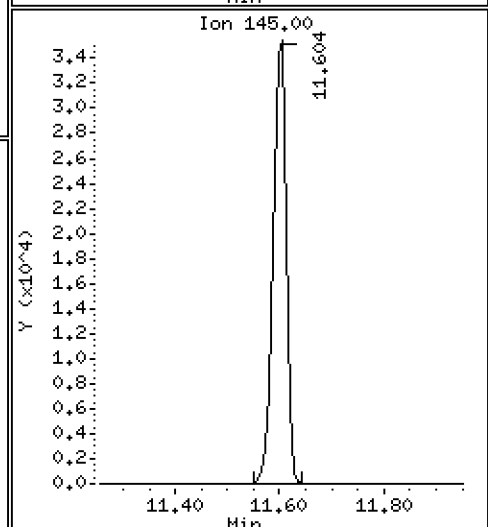
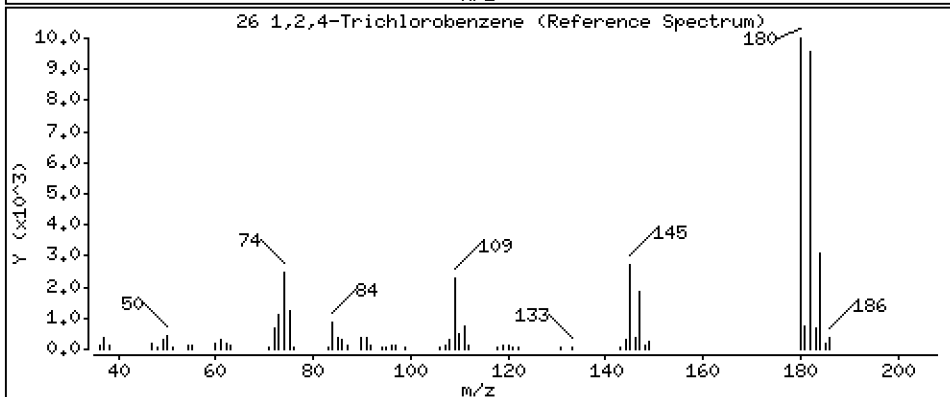
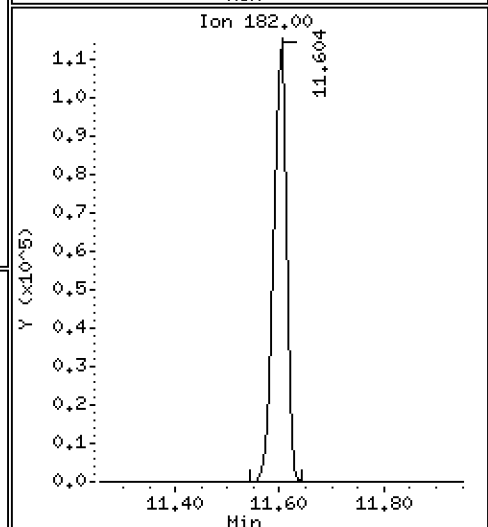
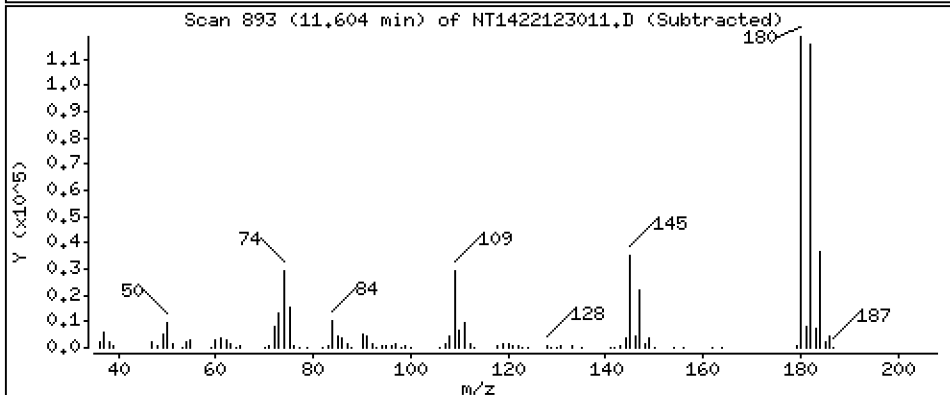
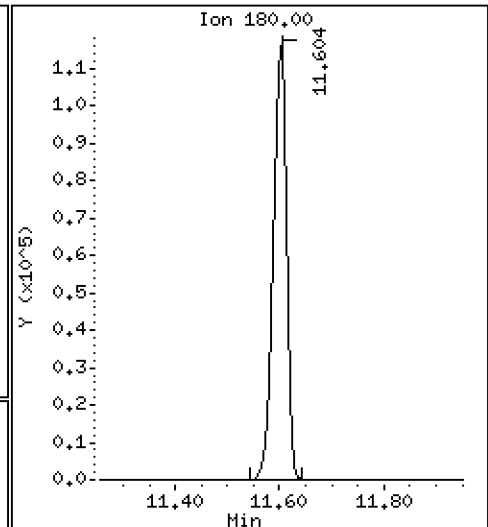
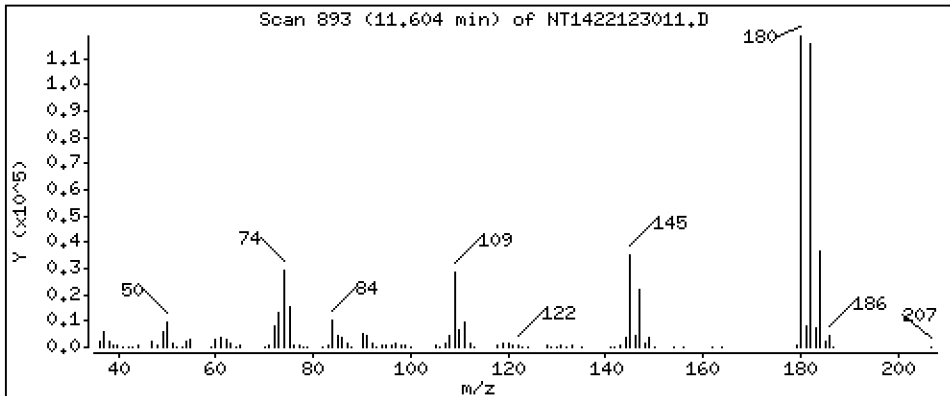
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,574 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

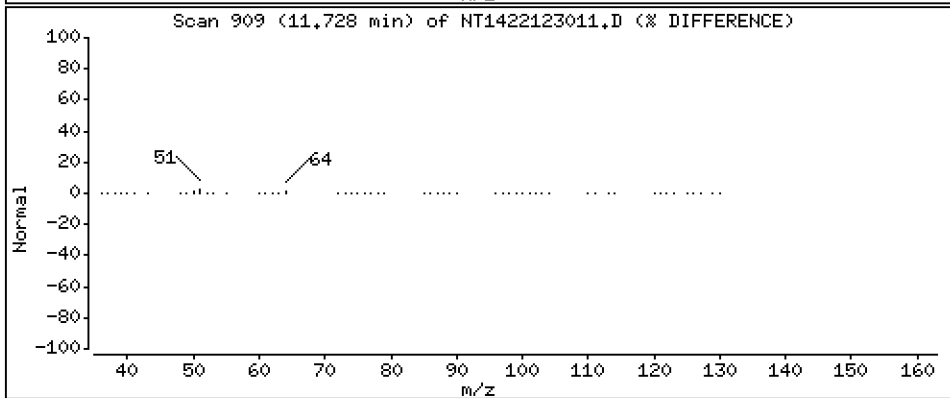
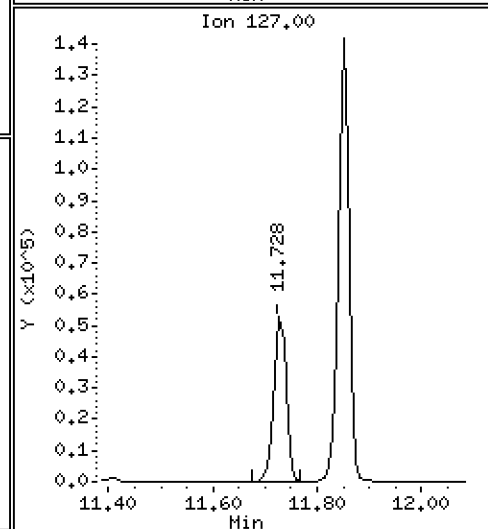
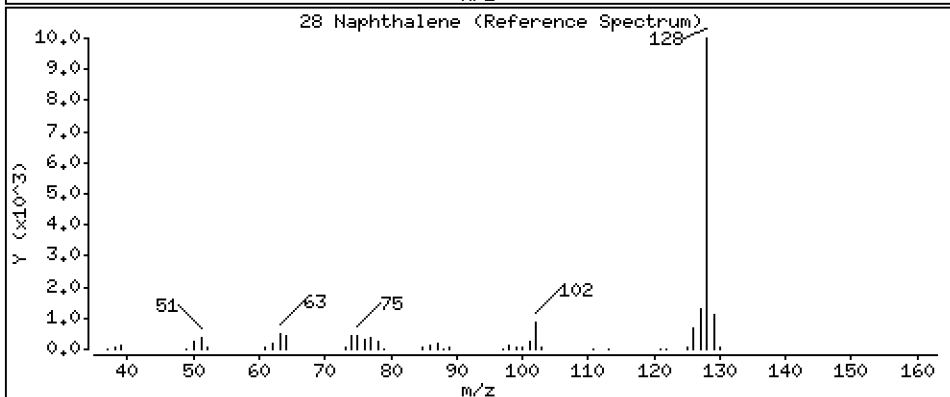
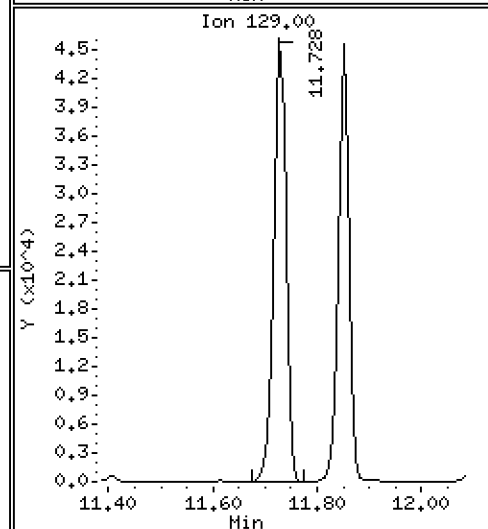
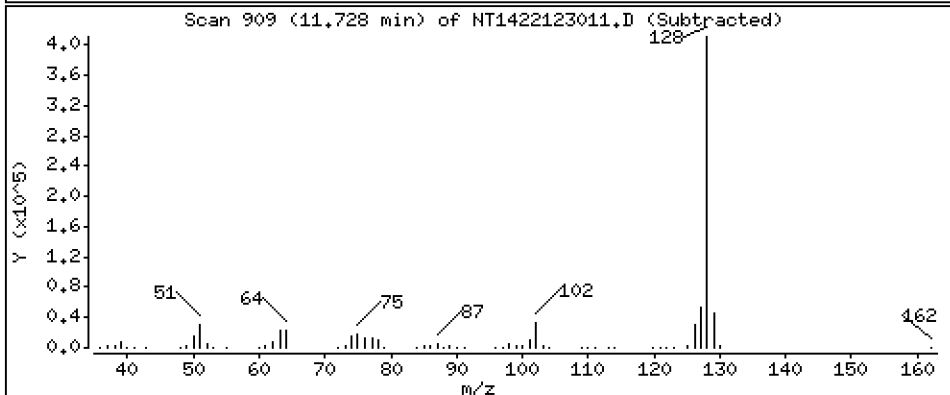
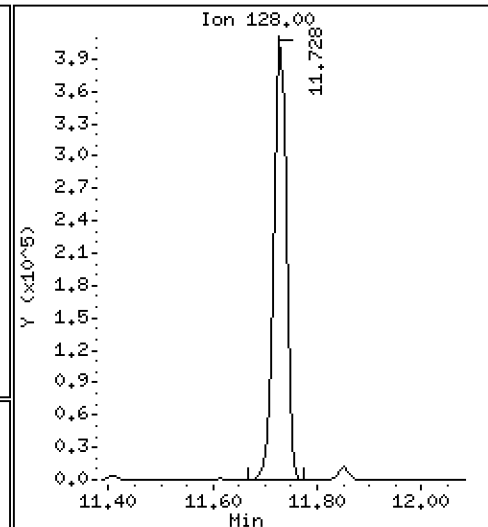
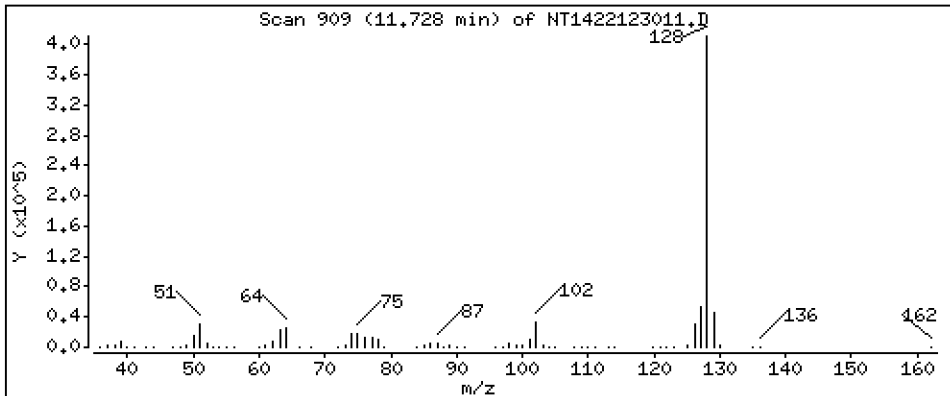
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,812 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

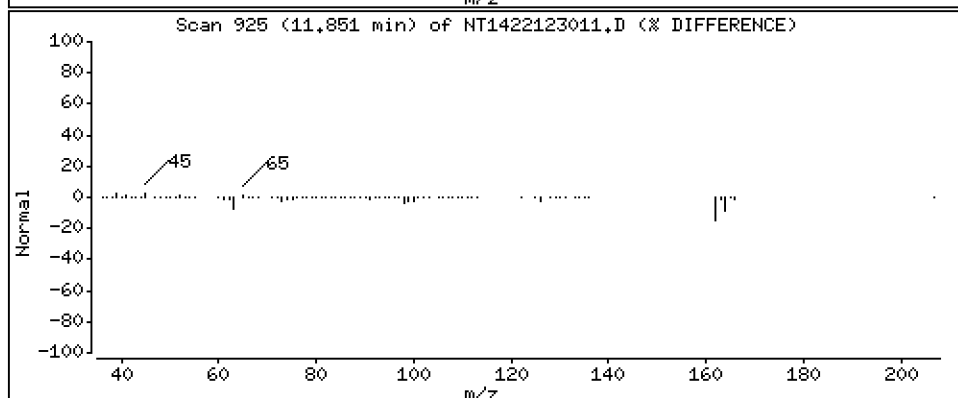
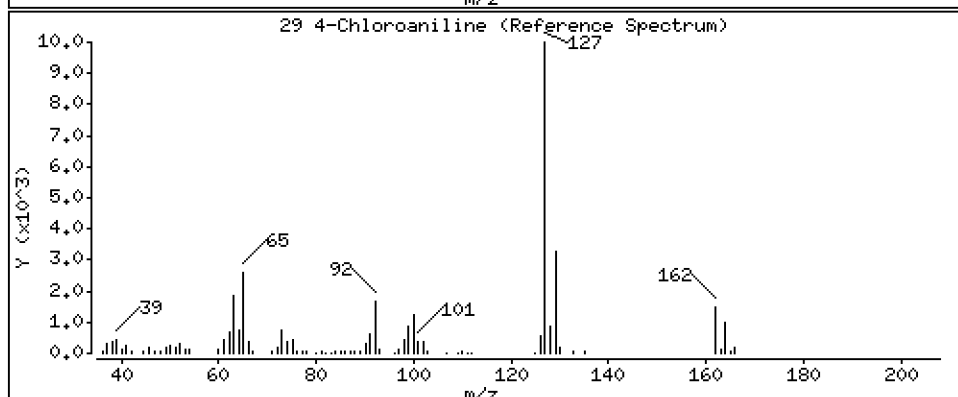
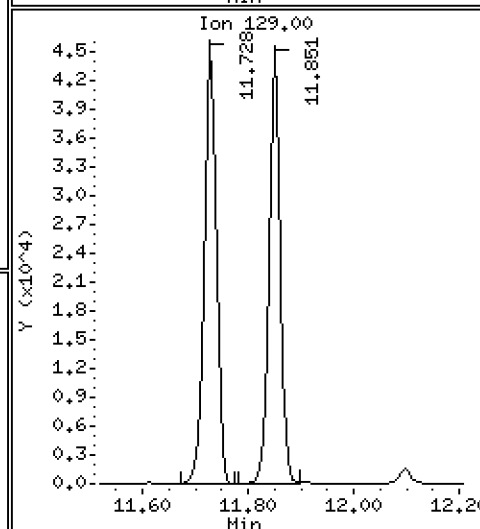
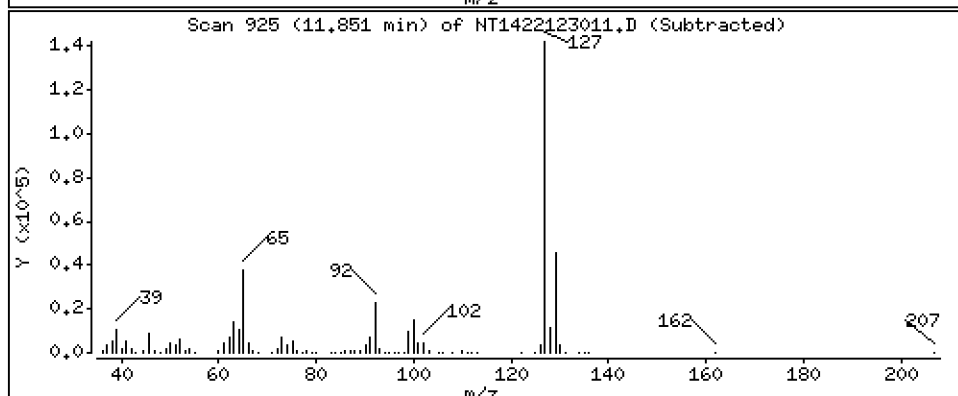
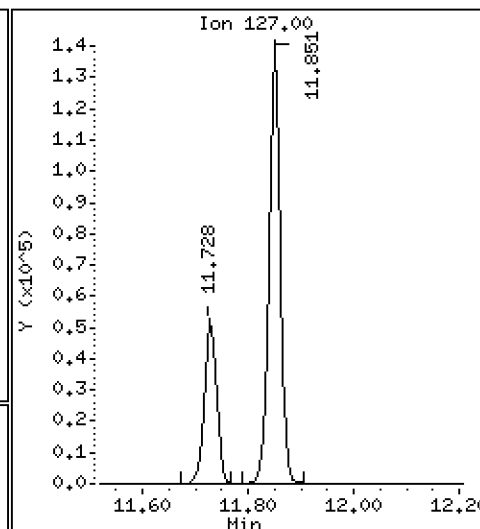
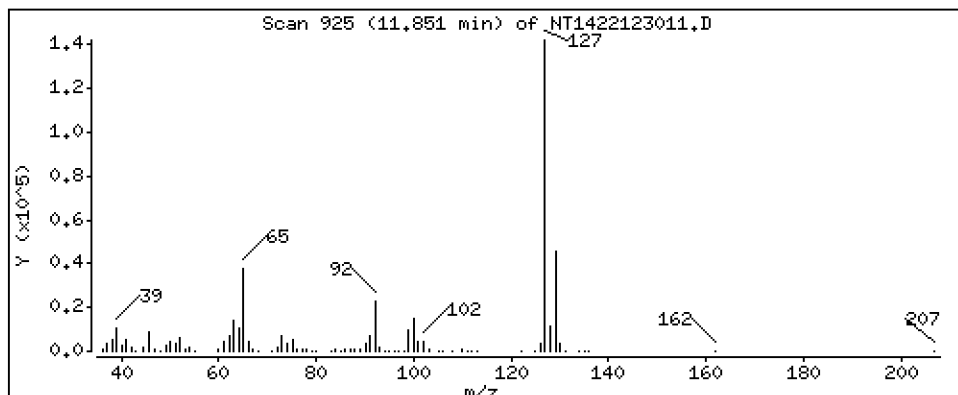
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,849 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

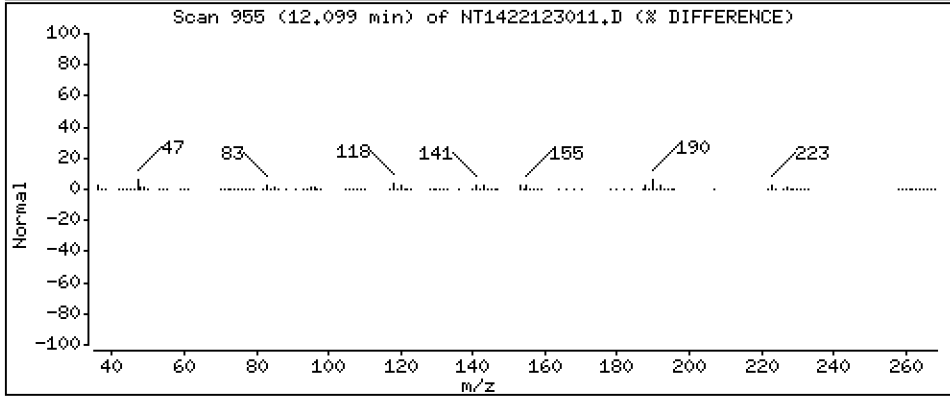
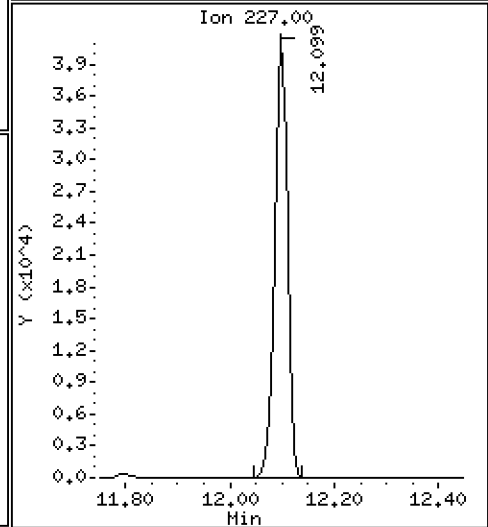
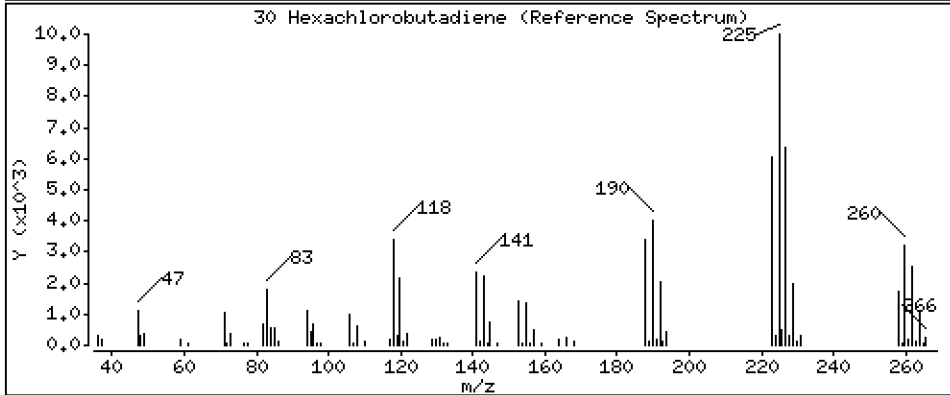
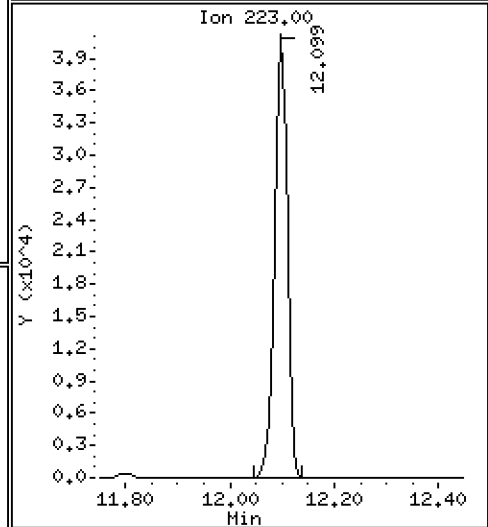
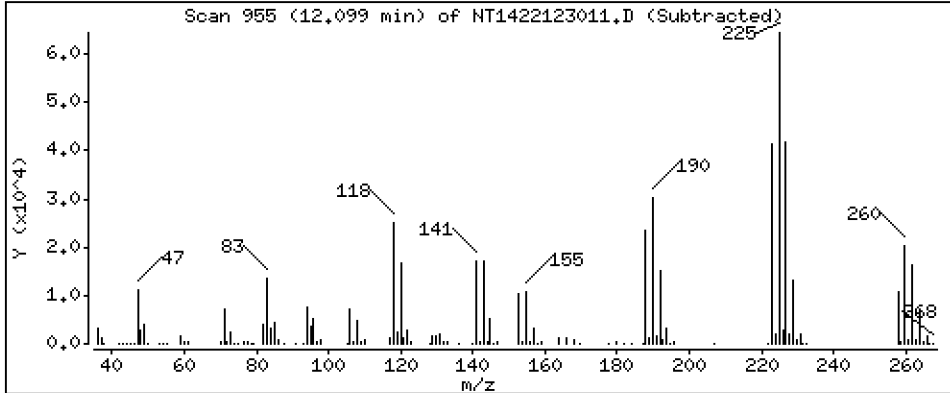
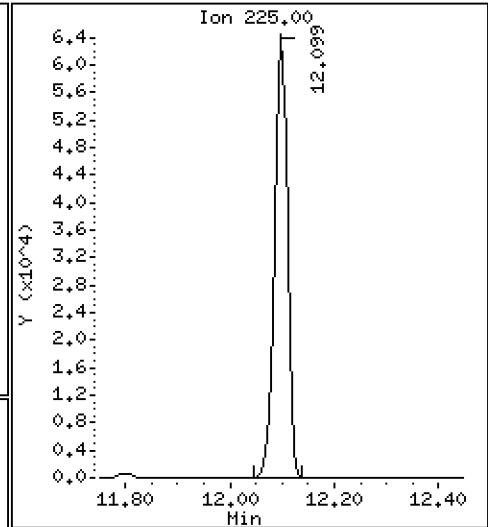
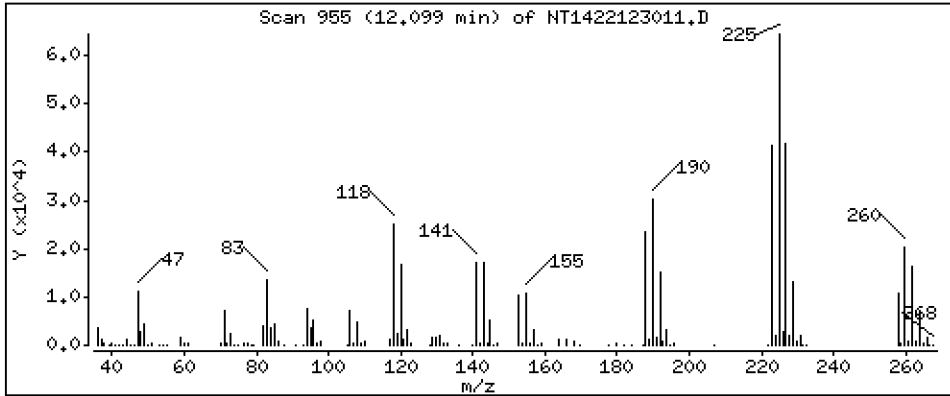
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,823 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

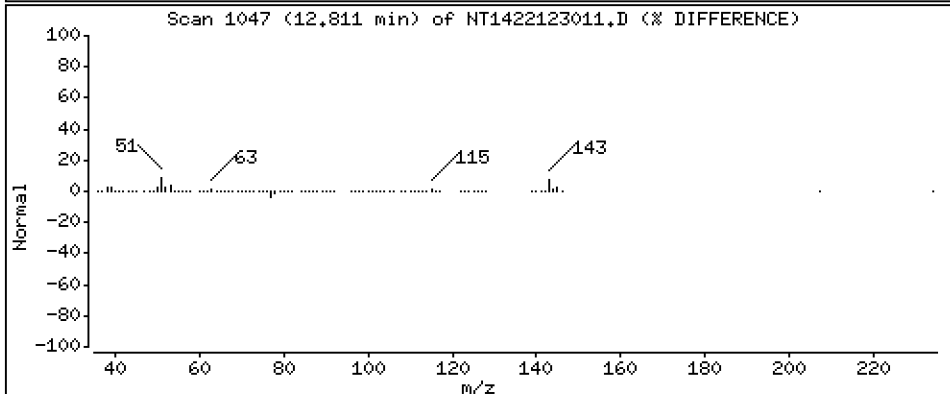
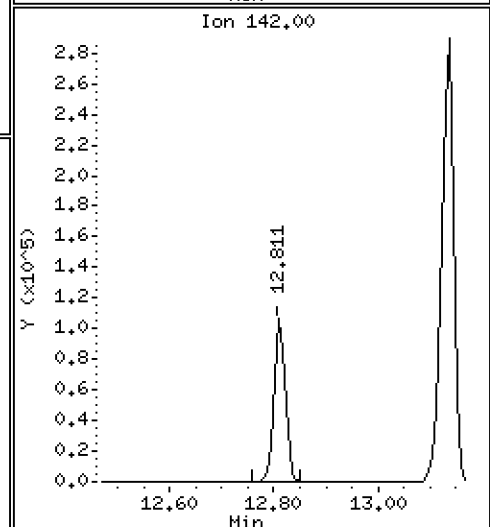
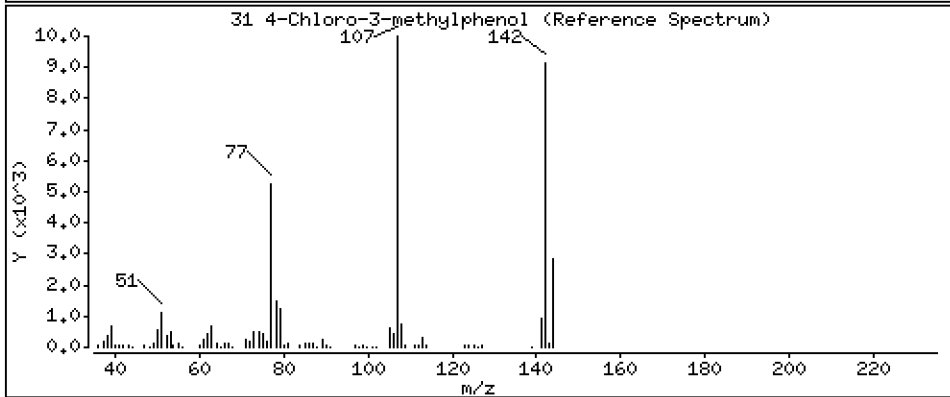
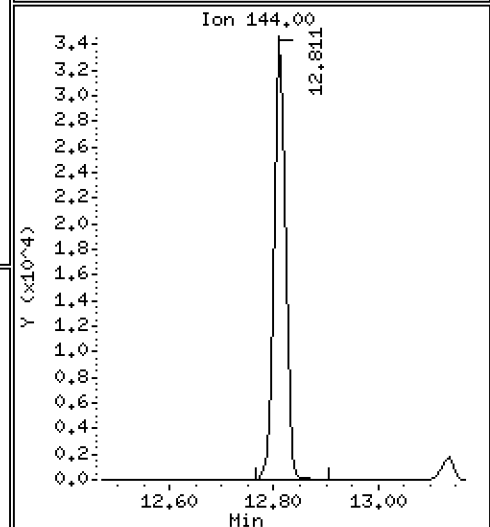
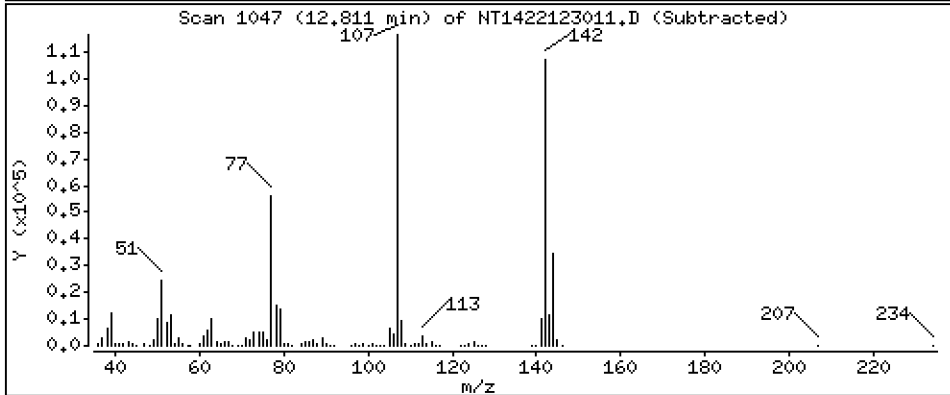
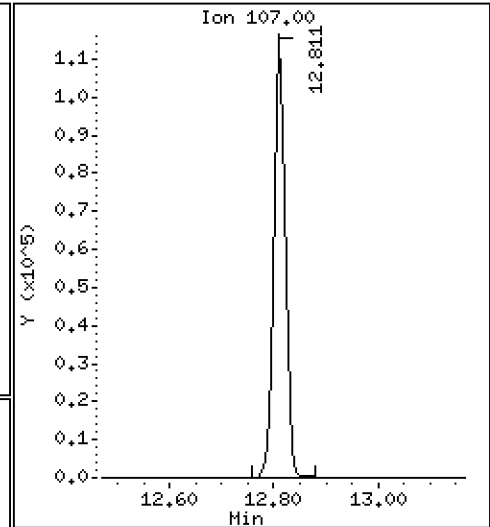
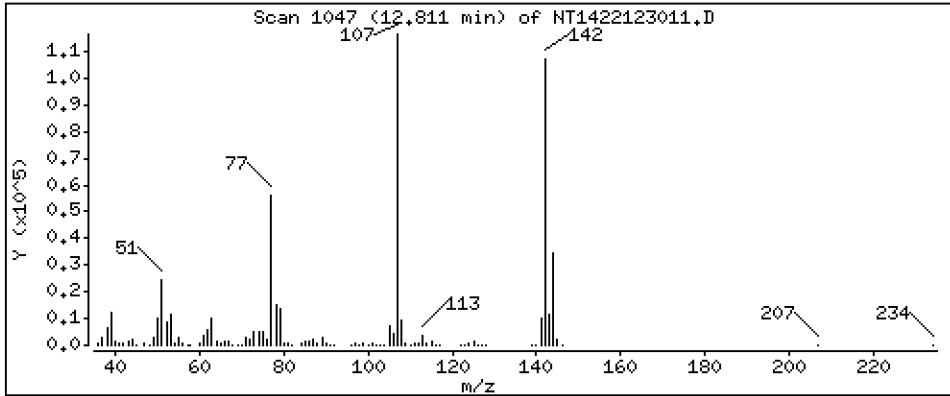
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,522 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

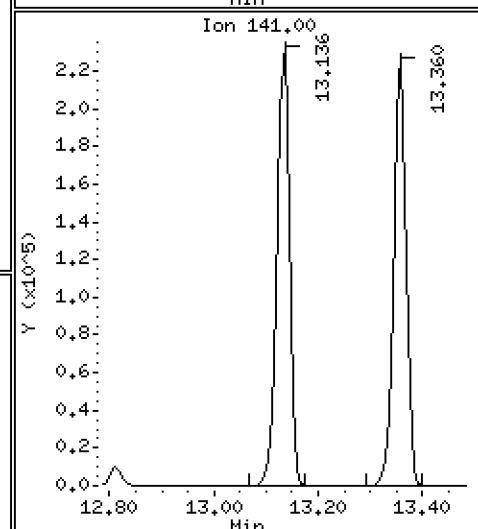
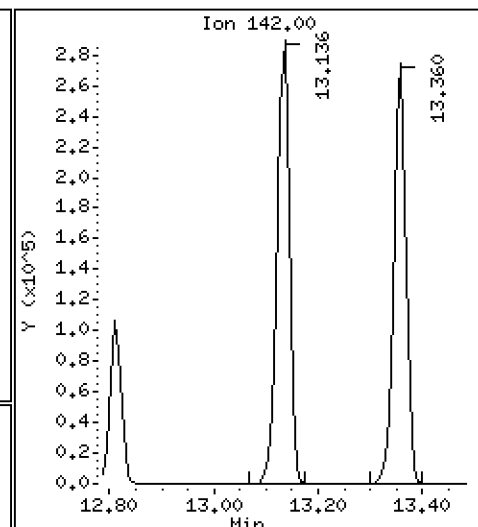
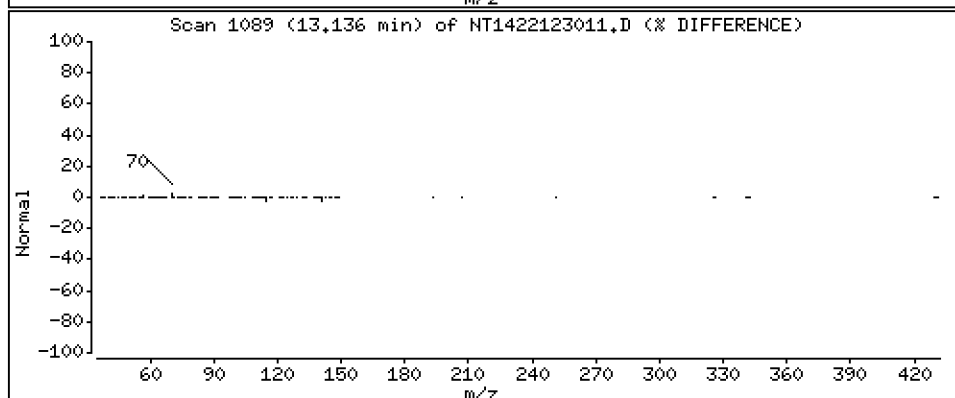
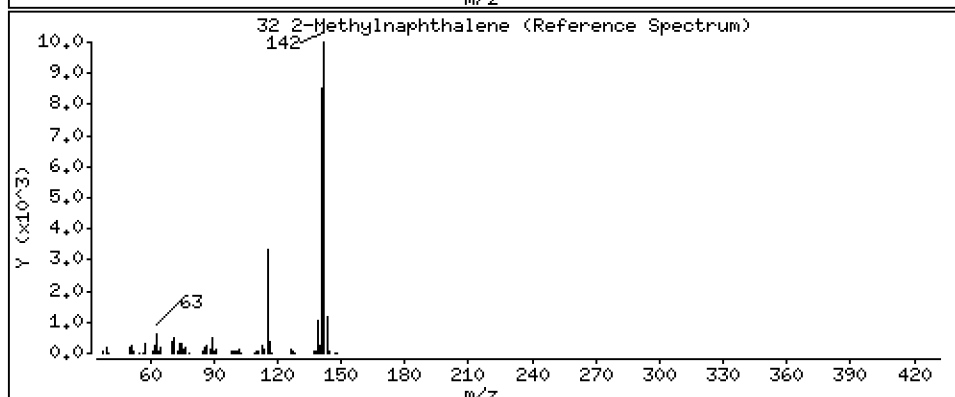
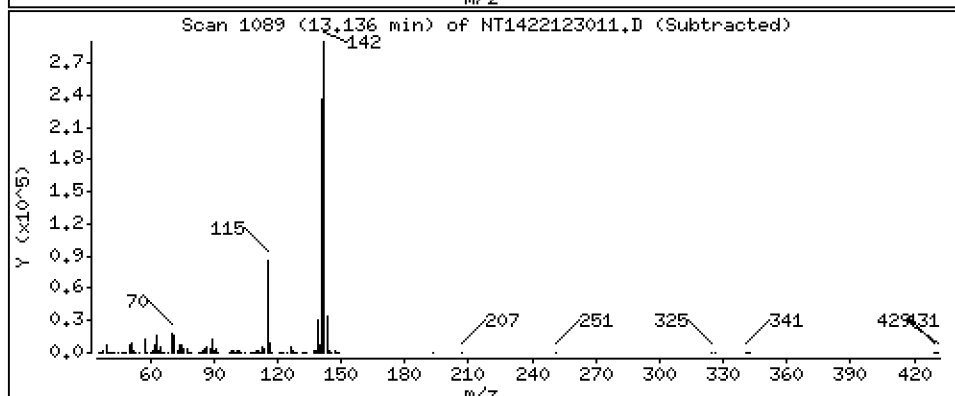
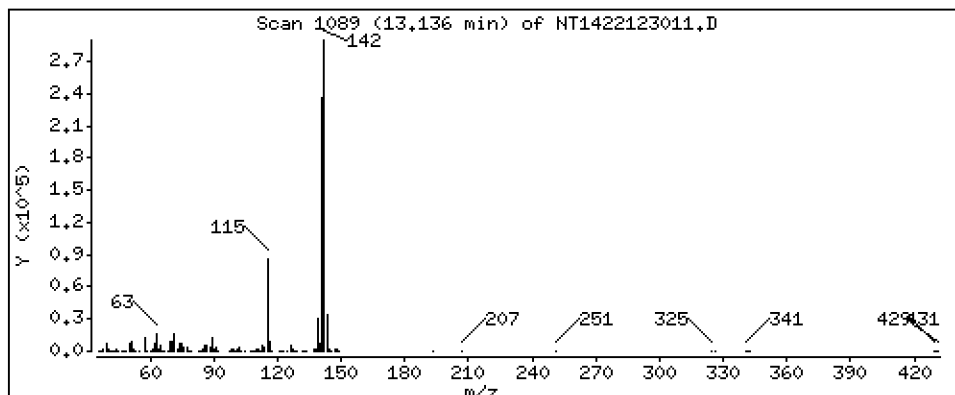
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,616 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

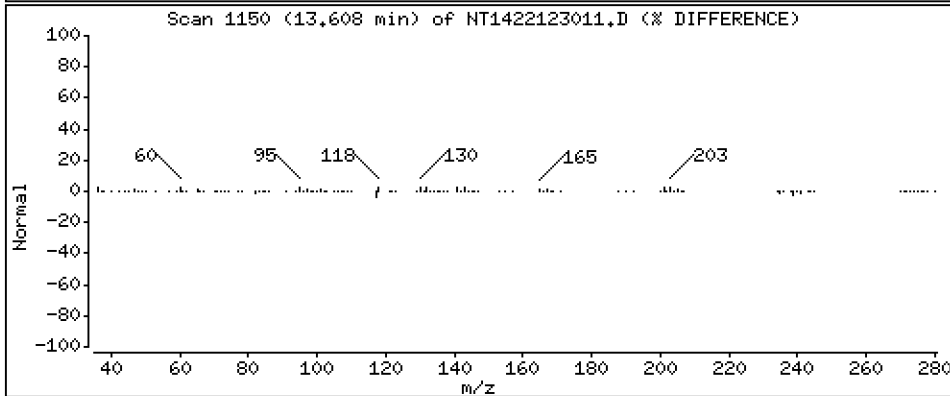
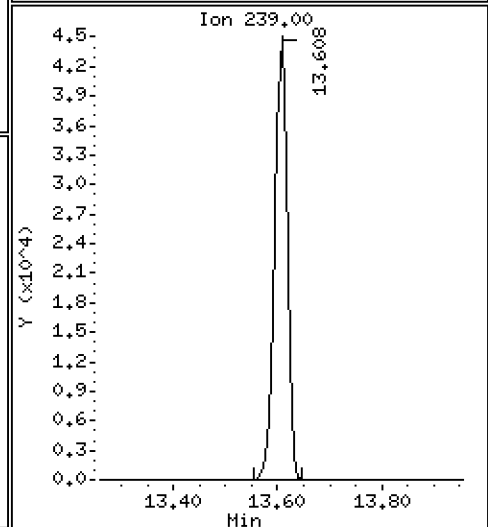
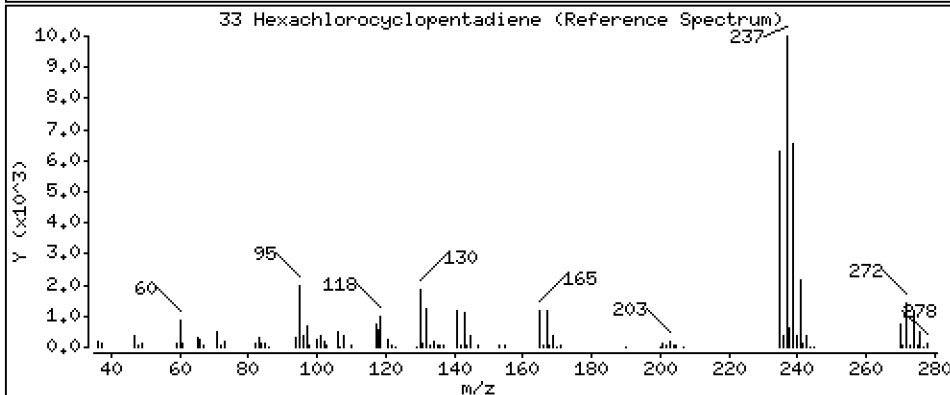
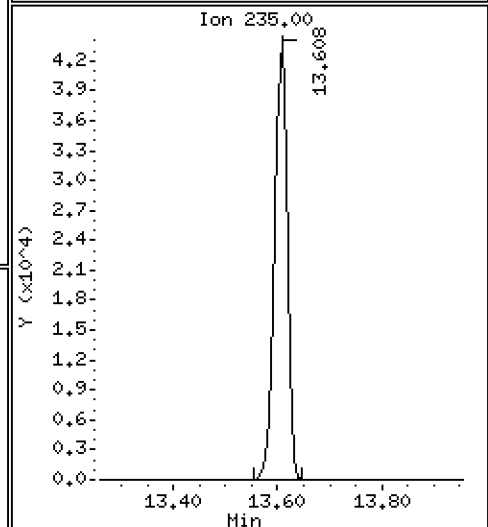
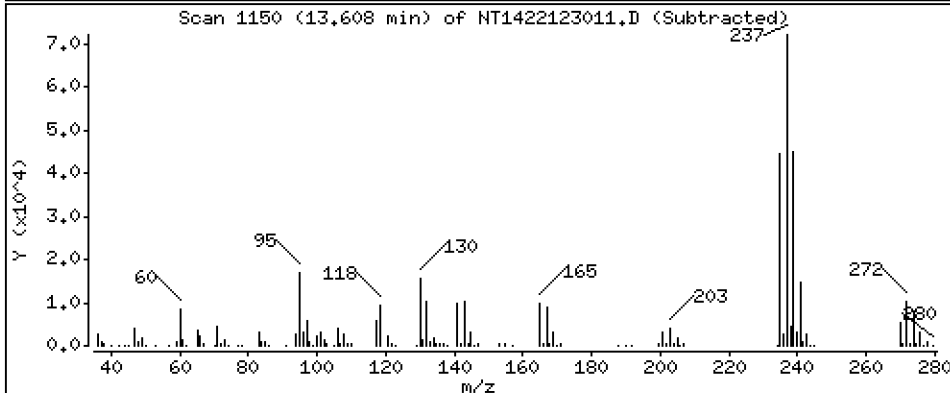
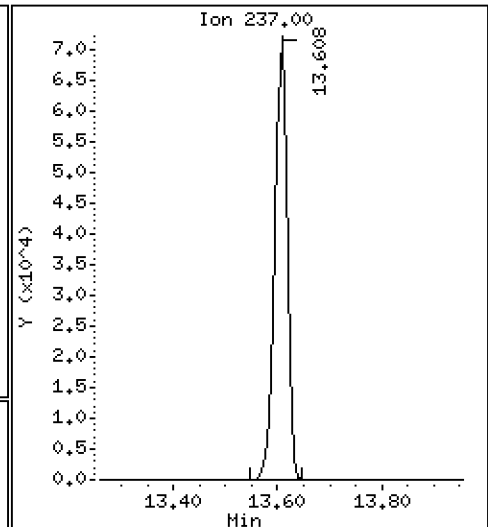
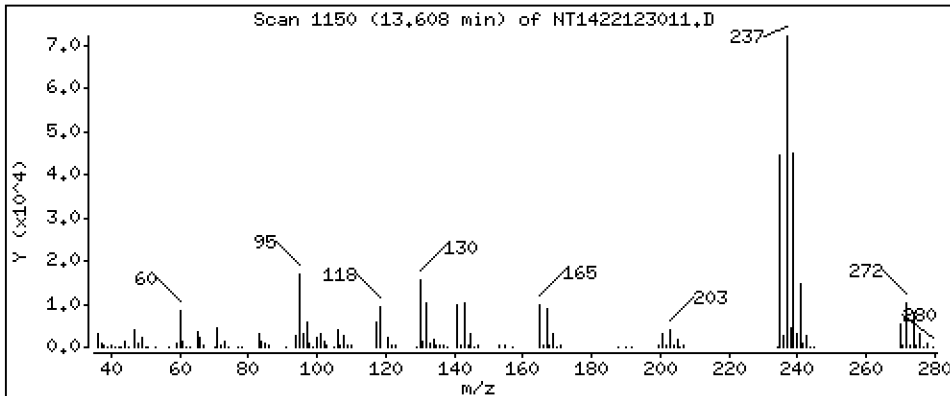
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 5,081 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

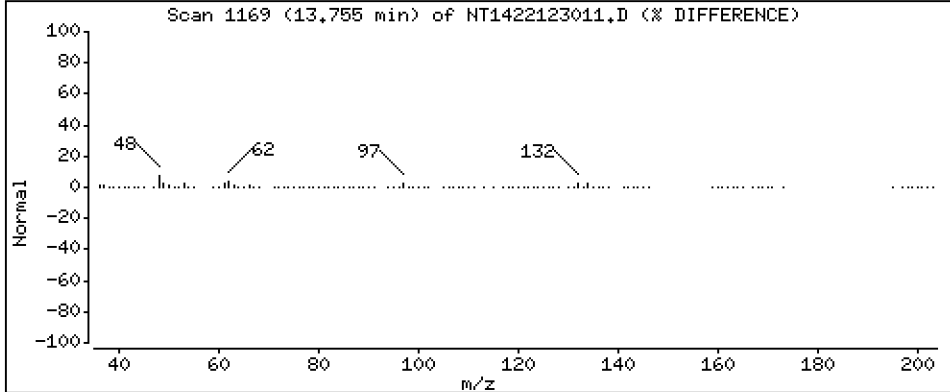
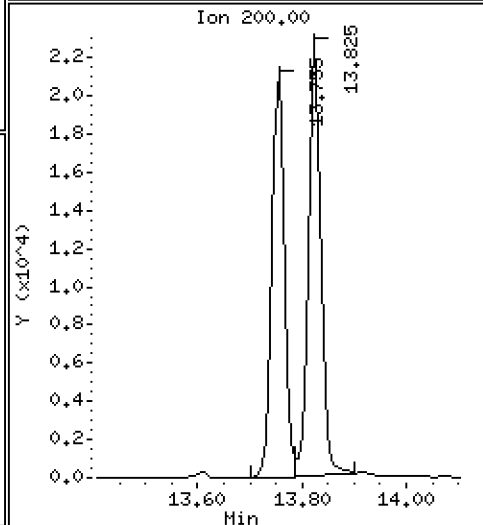
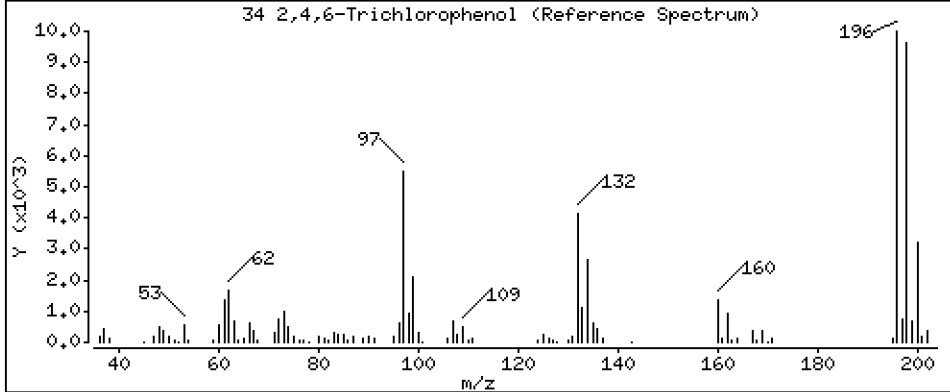
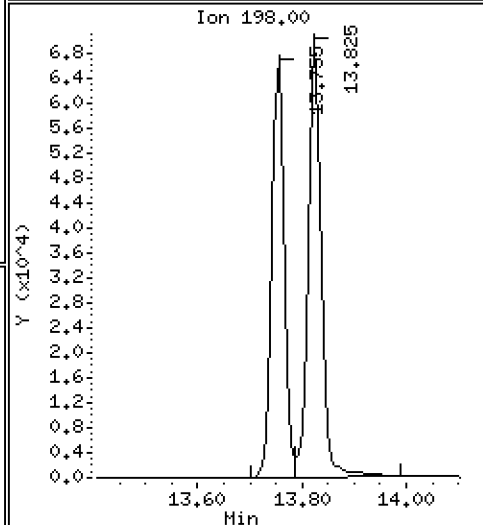
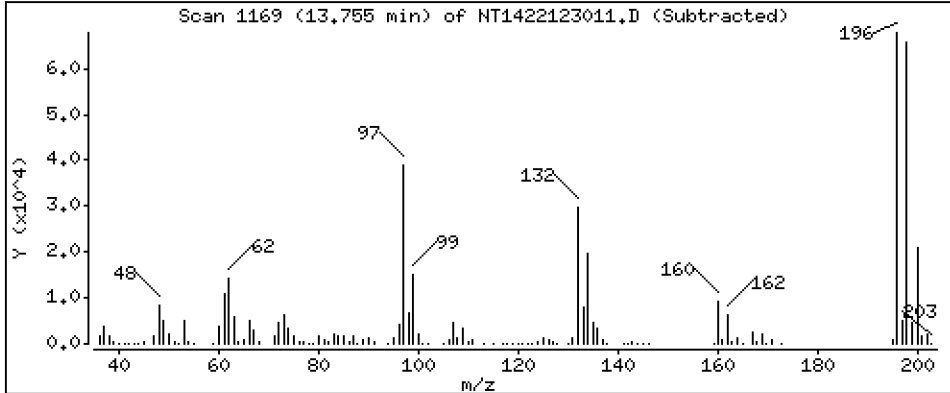
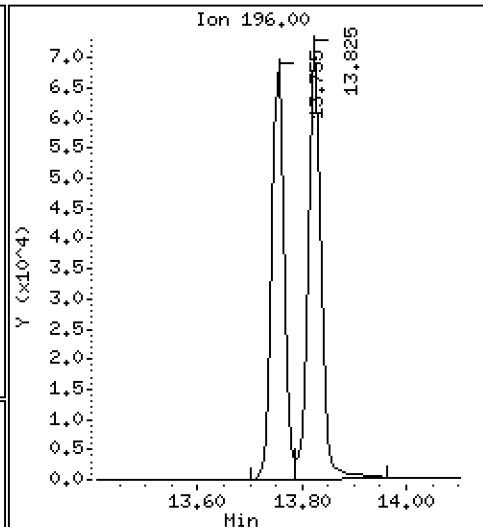
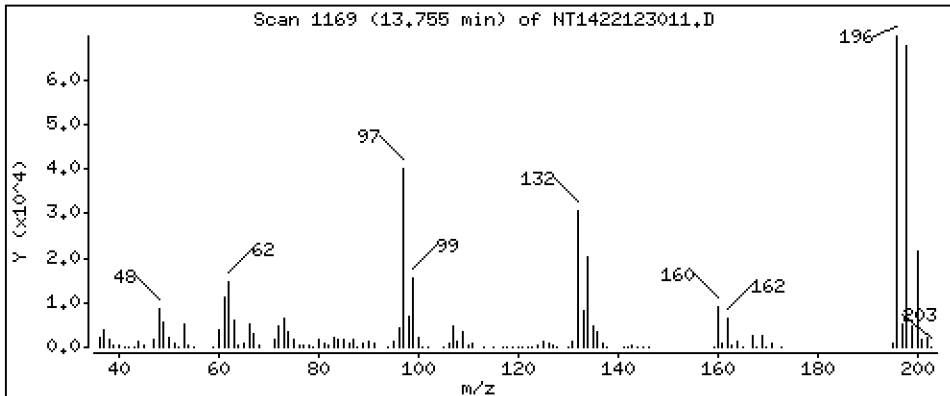
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,407 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

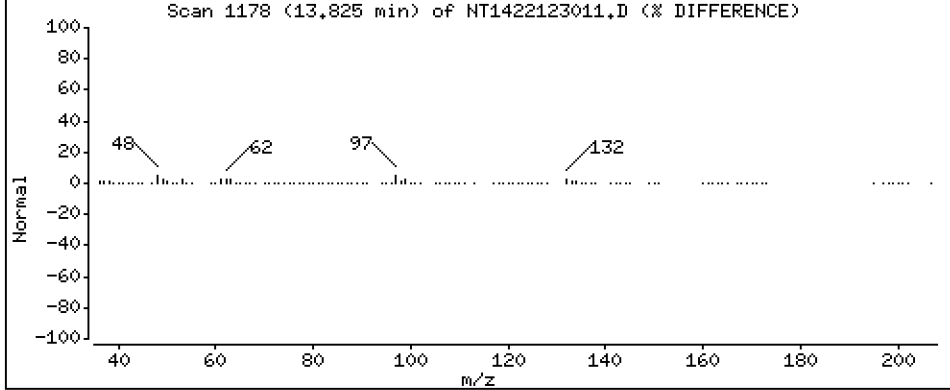
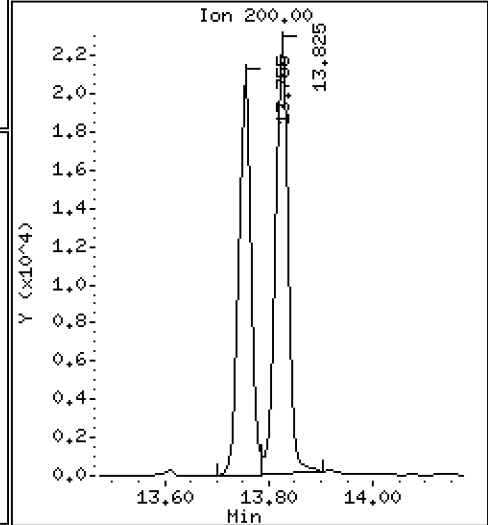
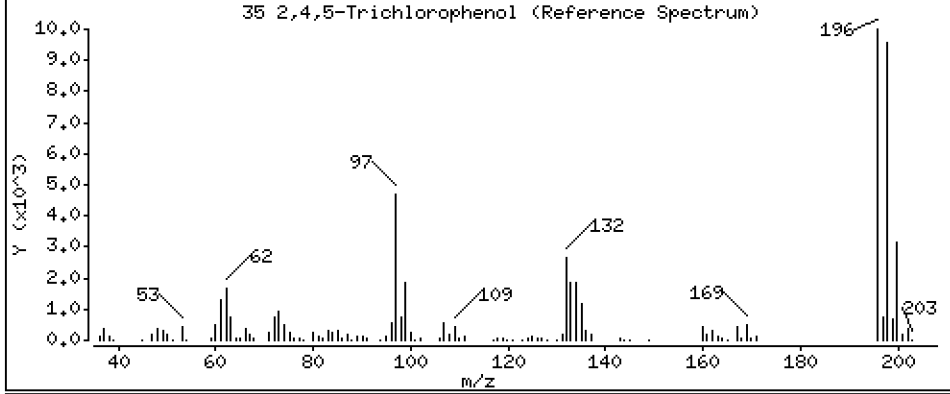
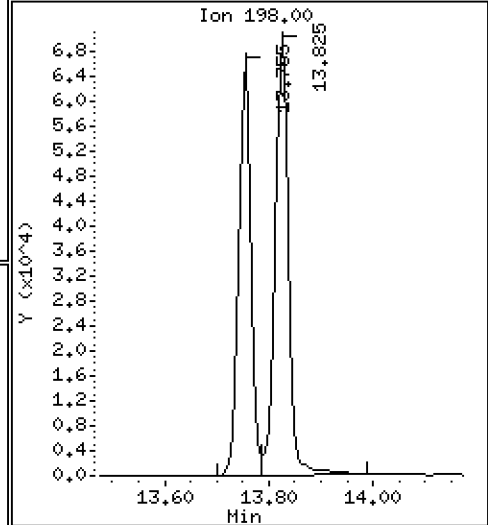
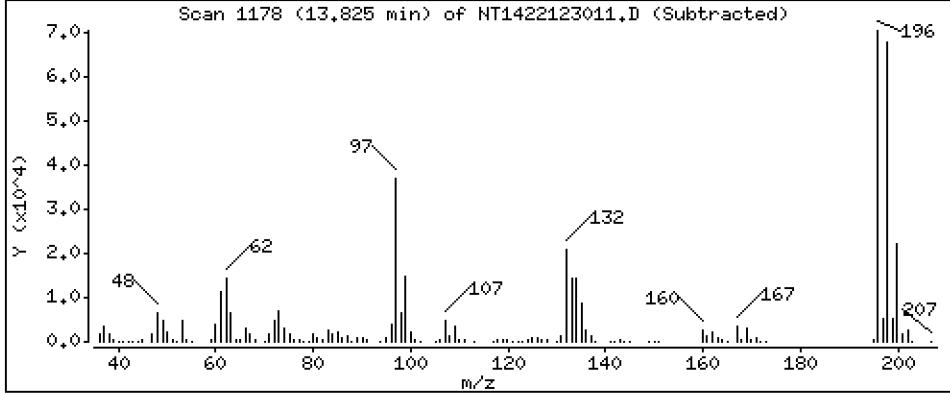
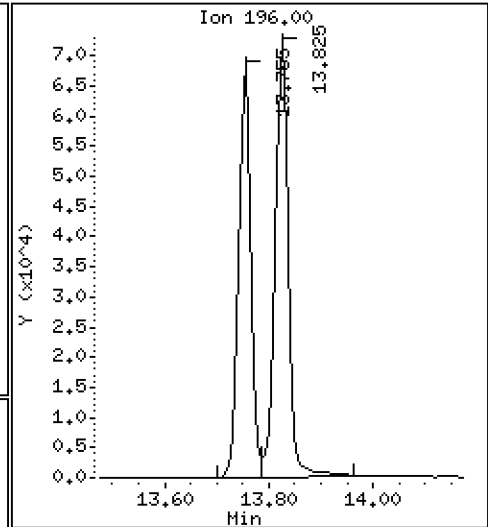
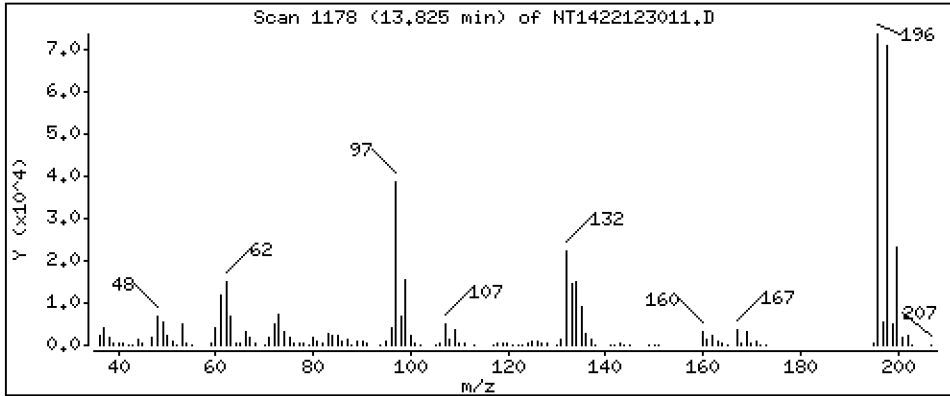
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,278 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

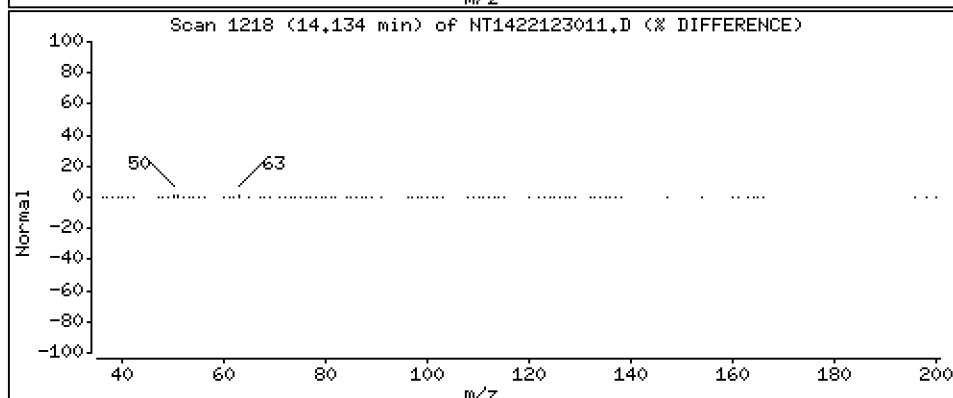
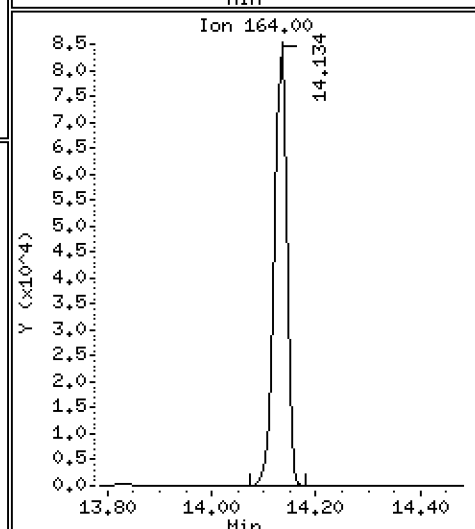
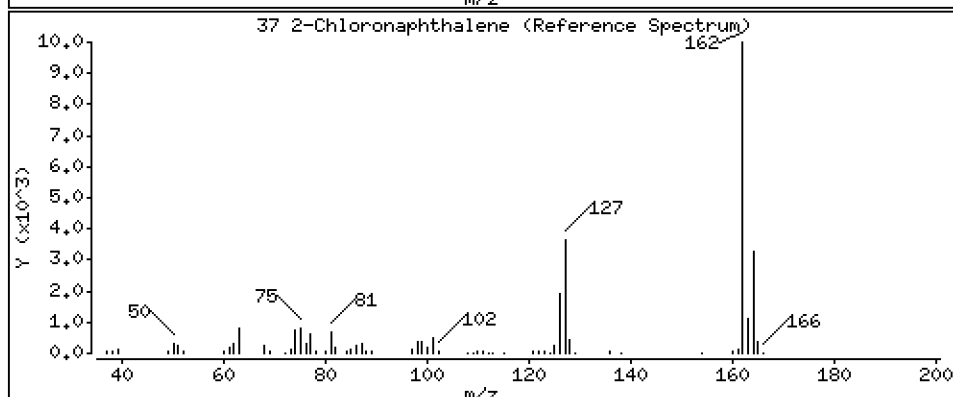
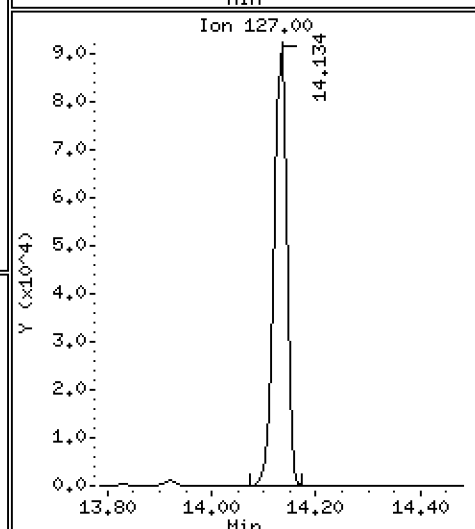
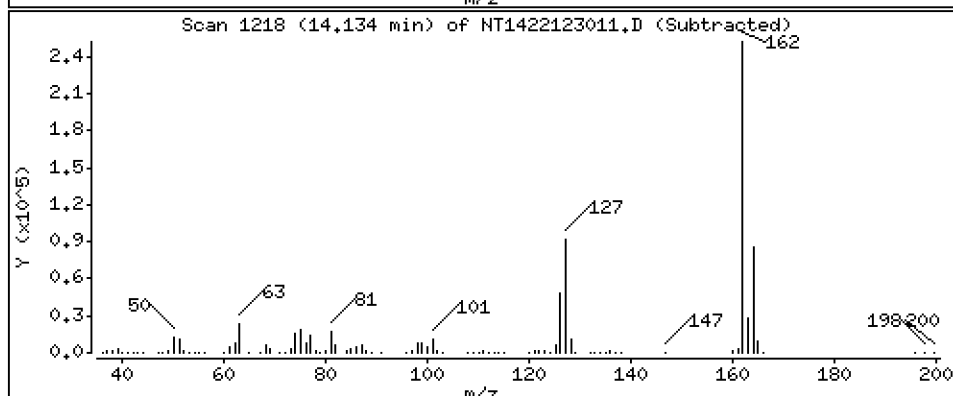
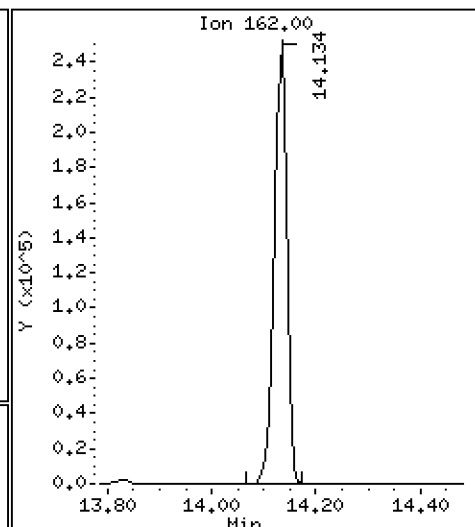
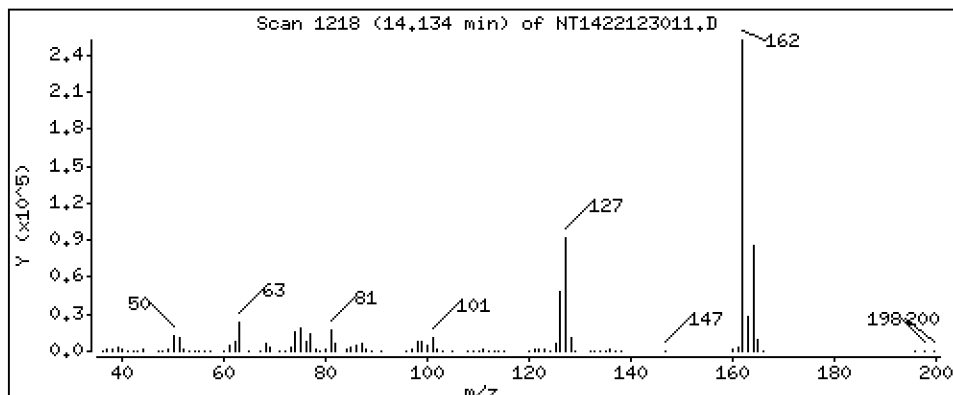
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,754 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

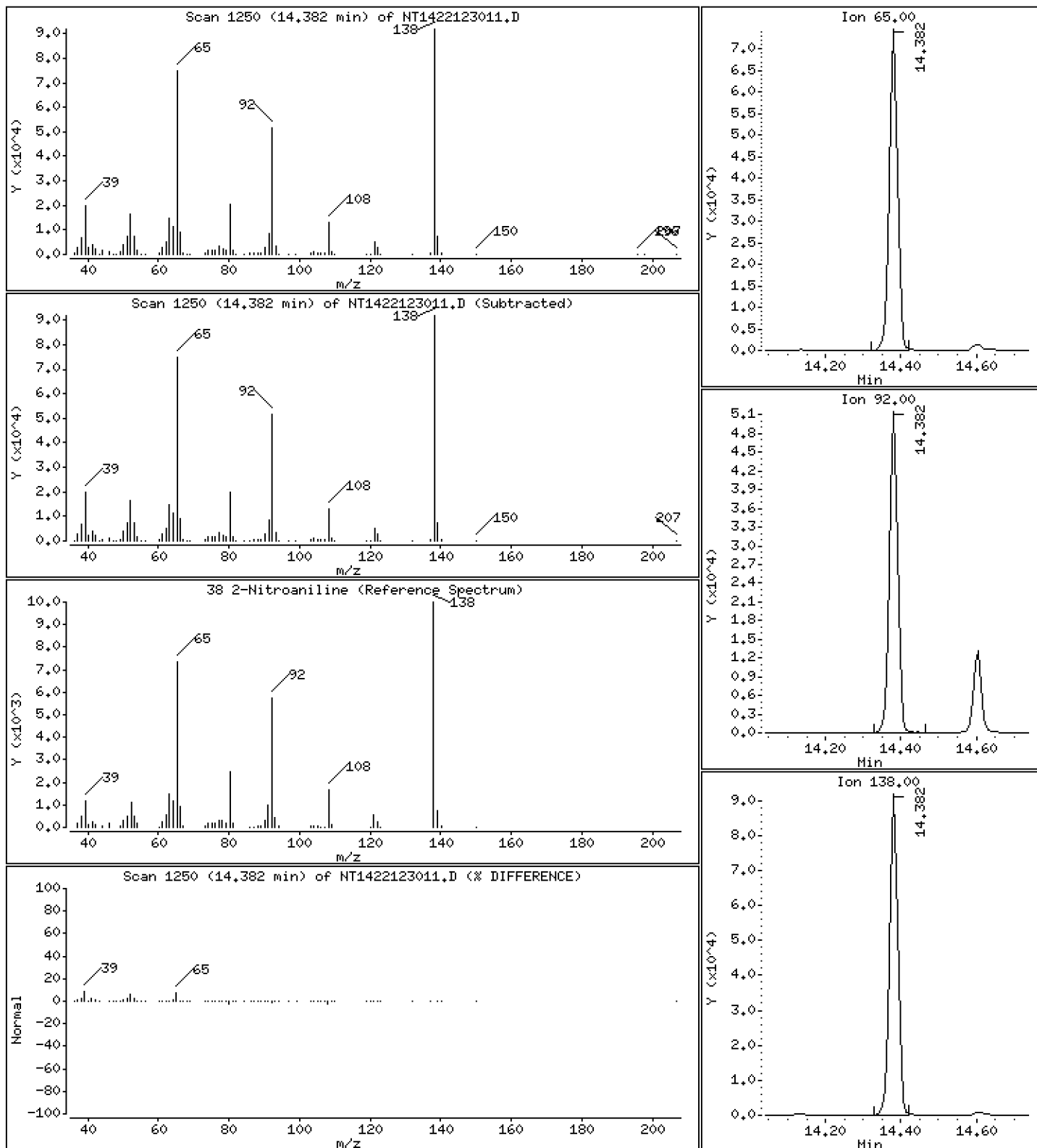
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,043 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

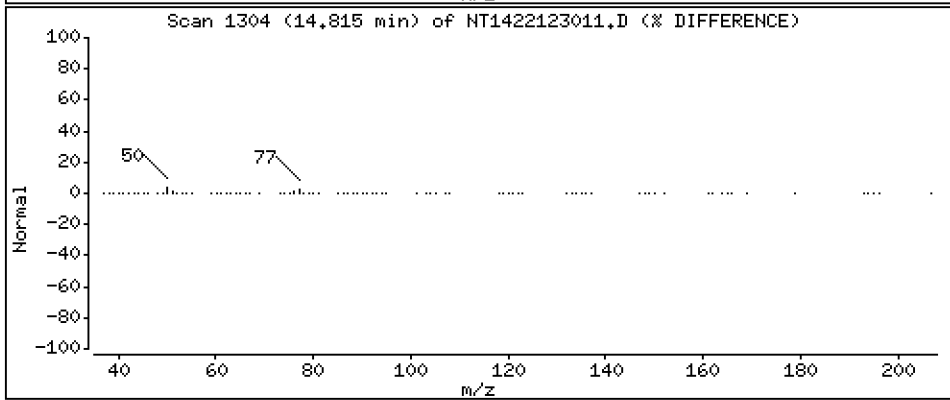
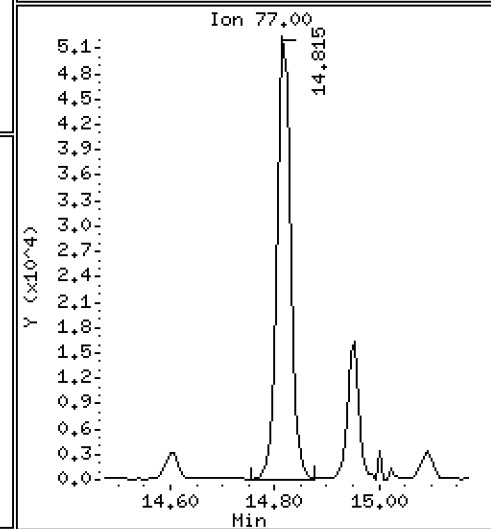
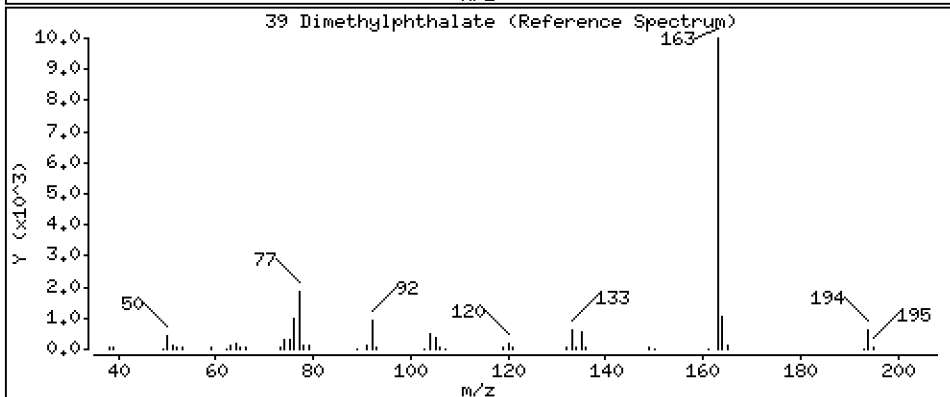
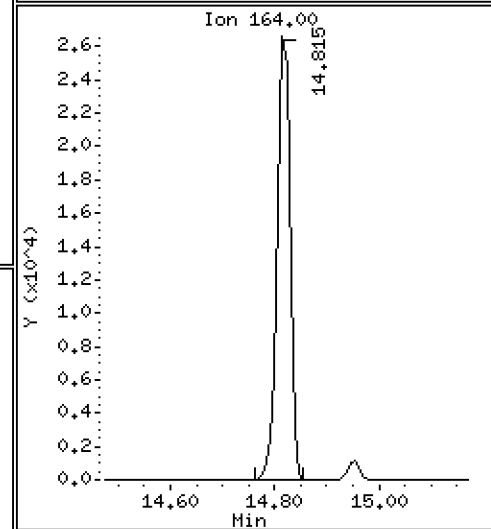
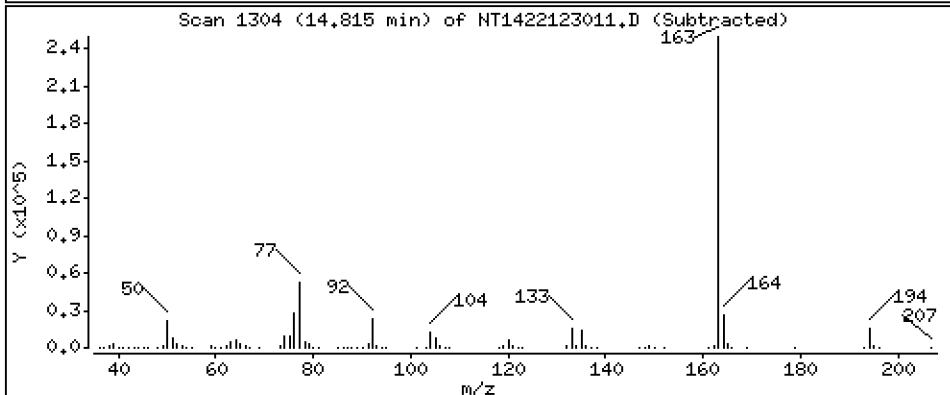
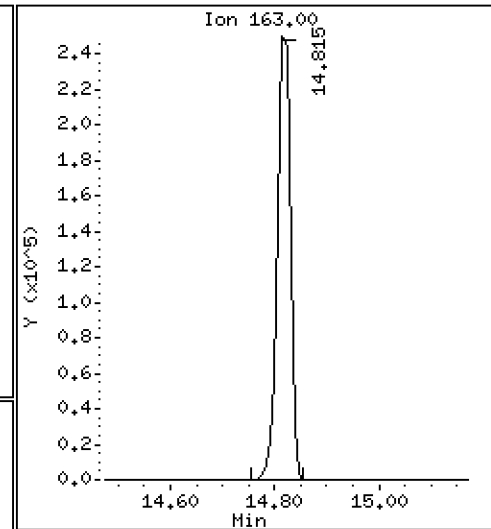
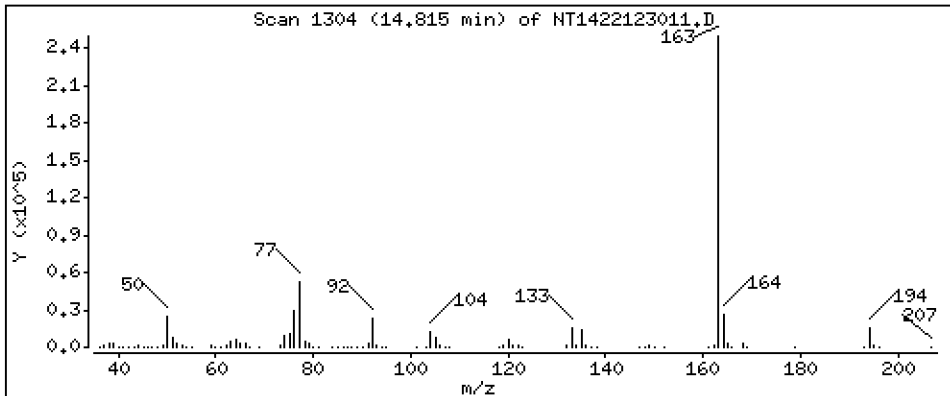
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,023 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

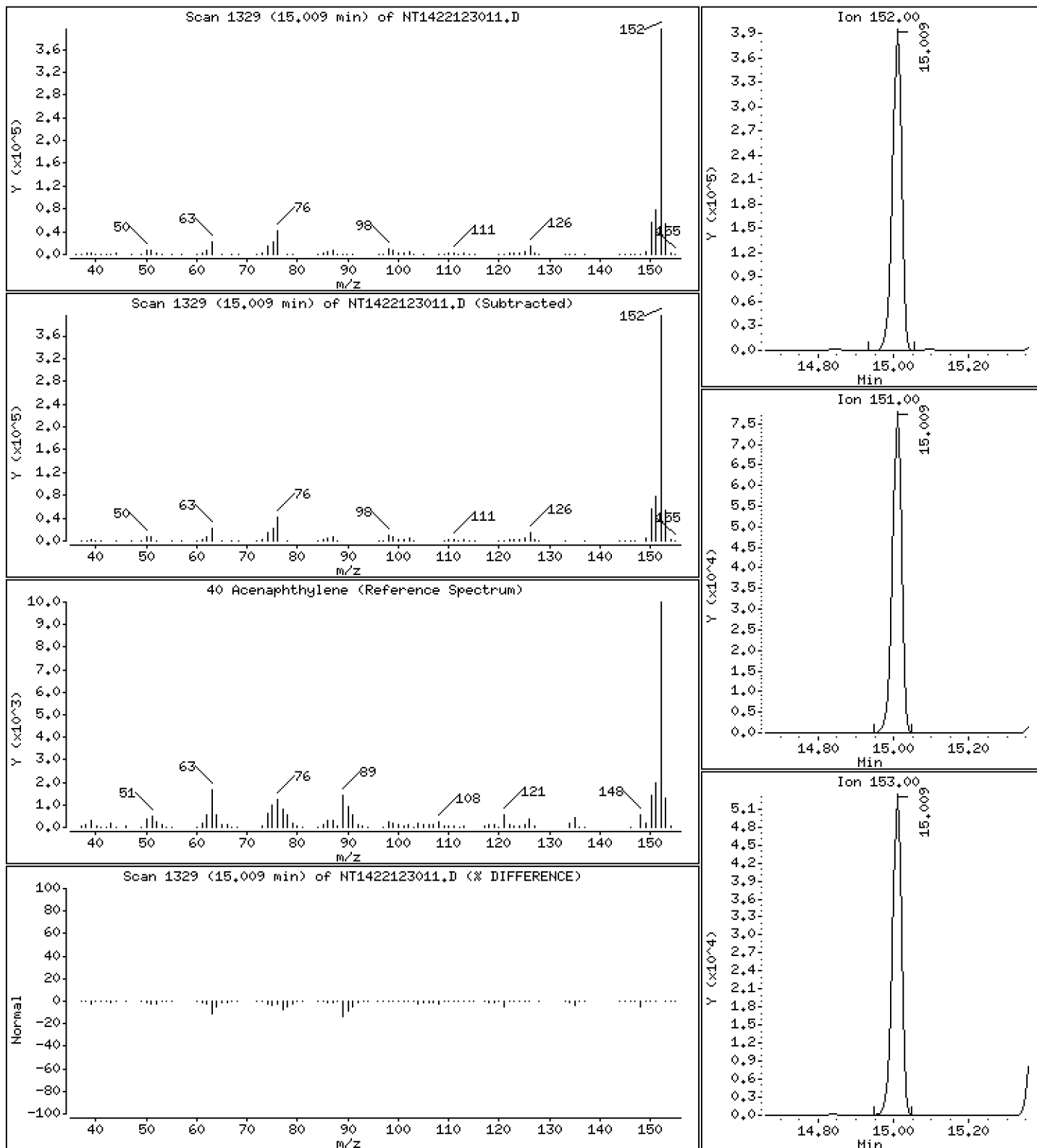
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,000 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

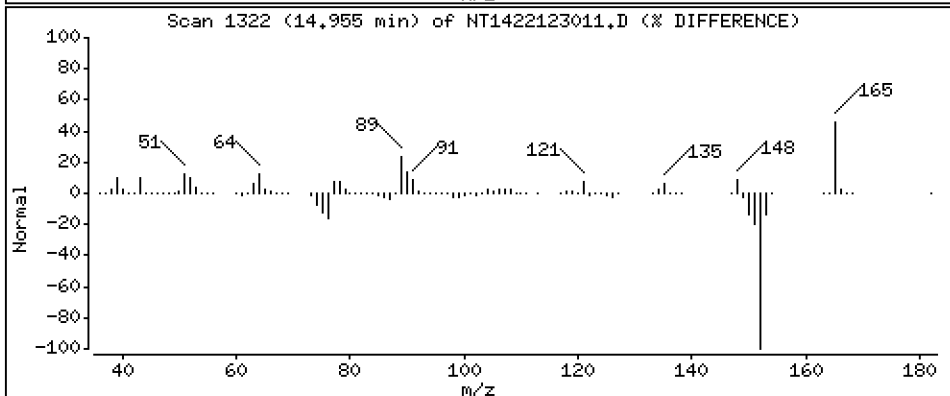
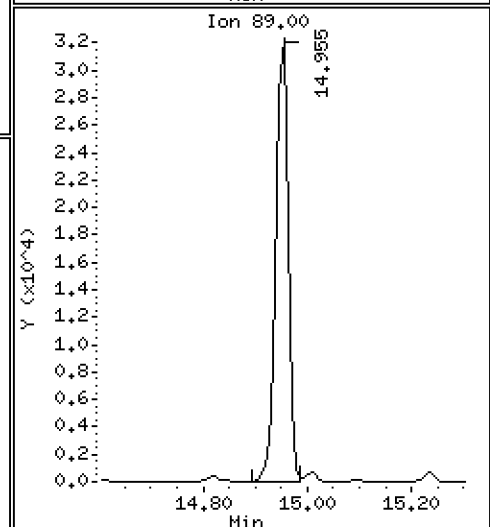
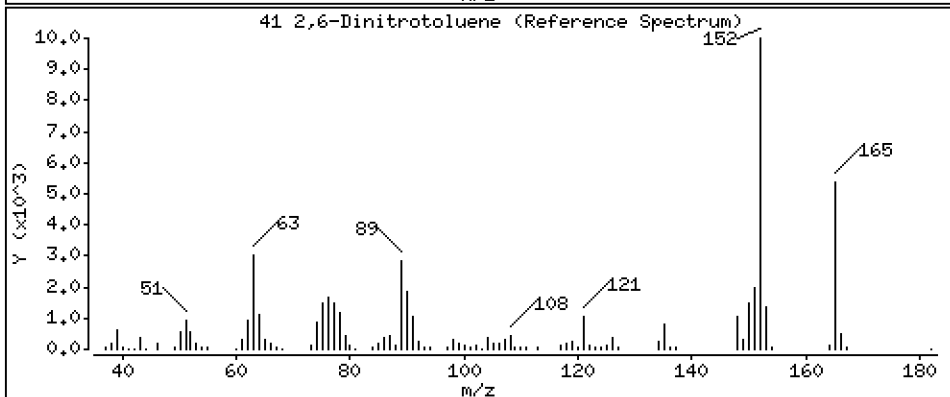
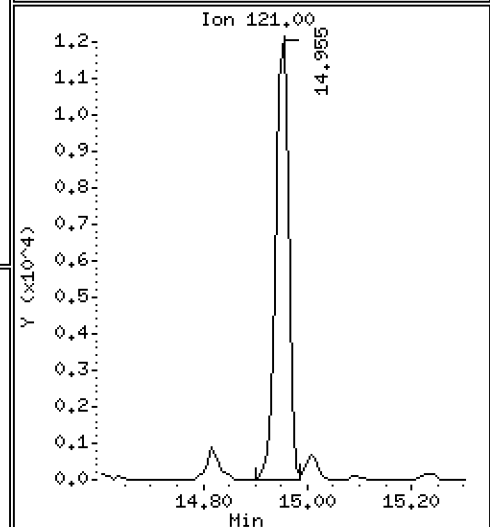
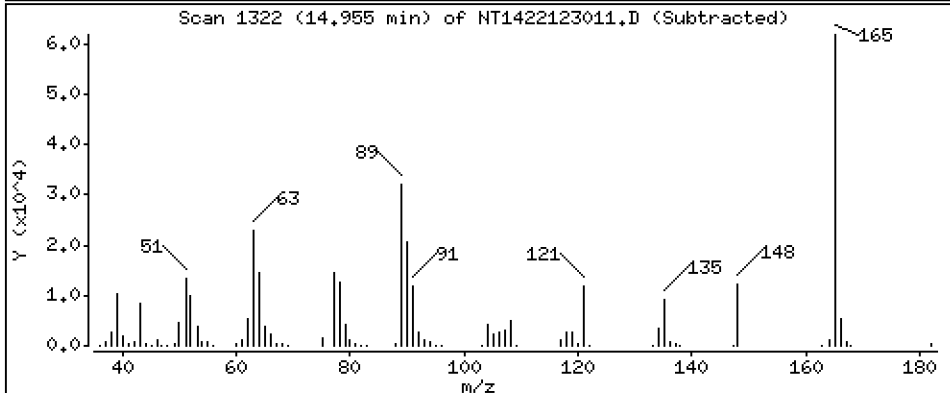
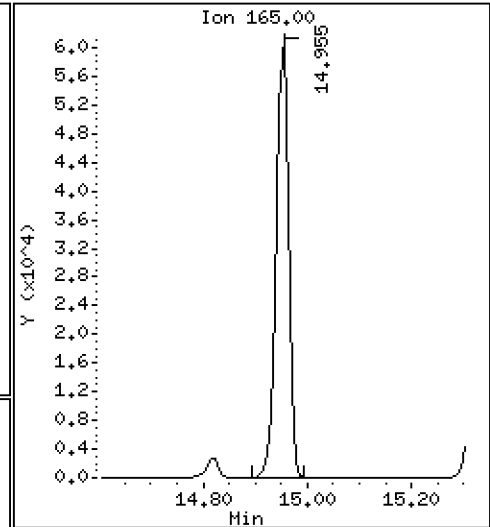
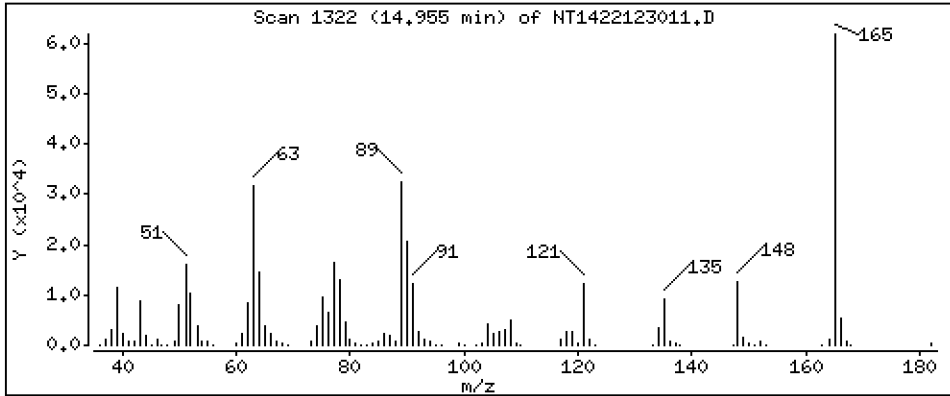
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 5.115 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

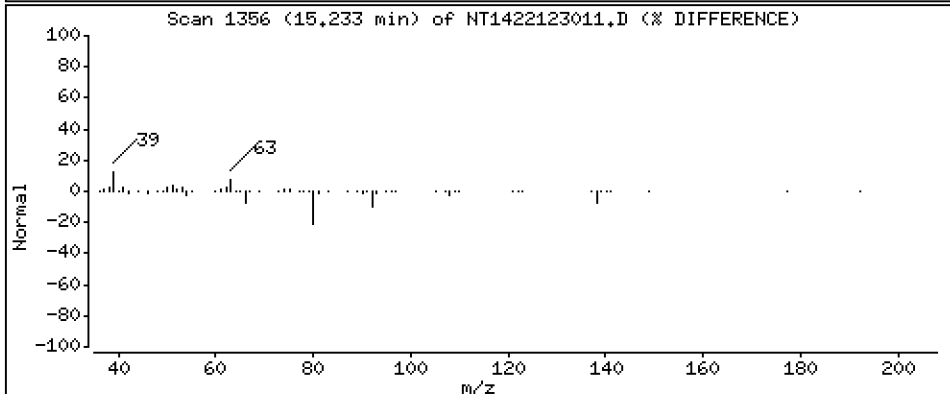
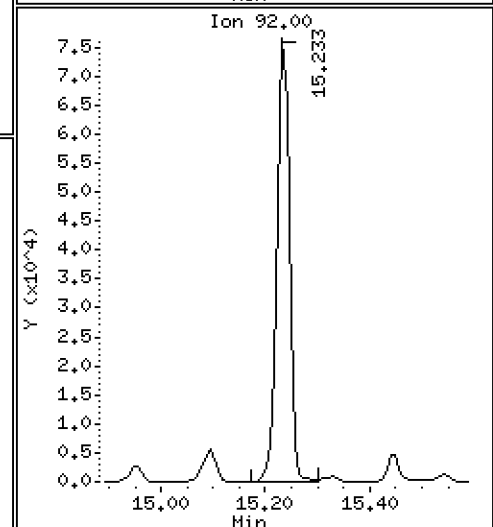
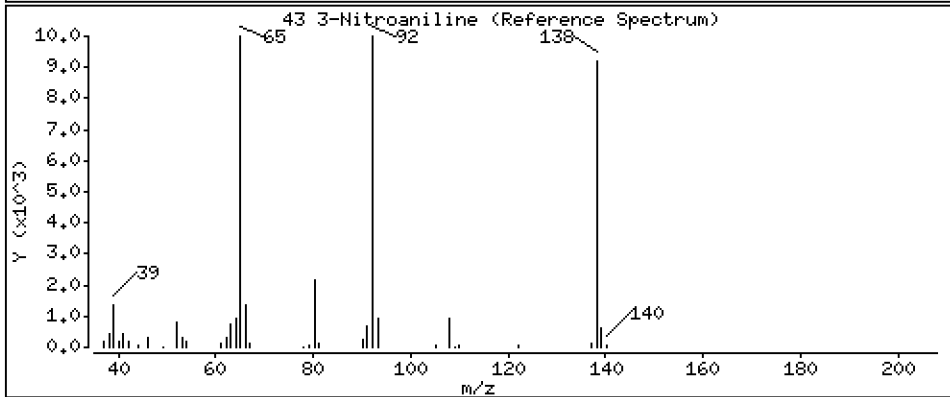
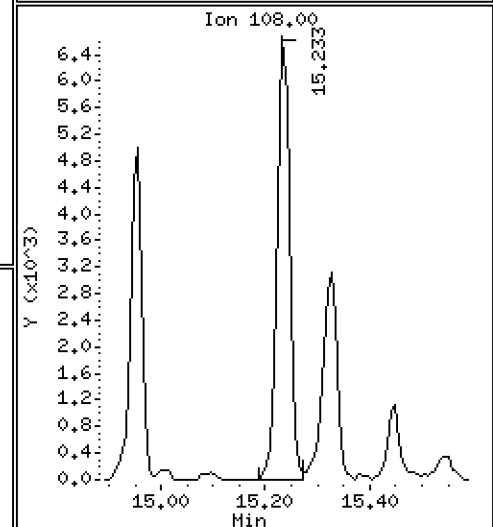
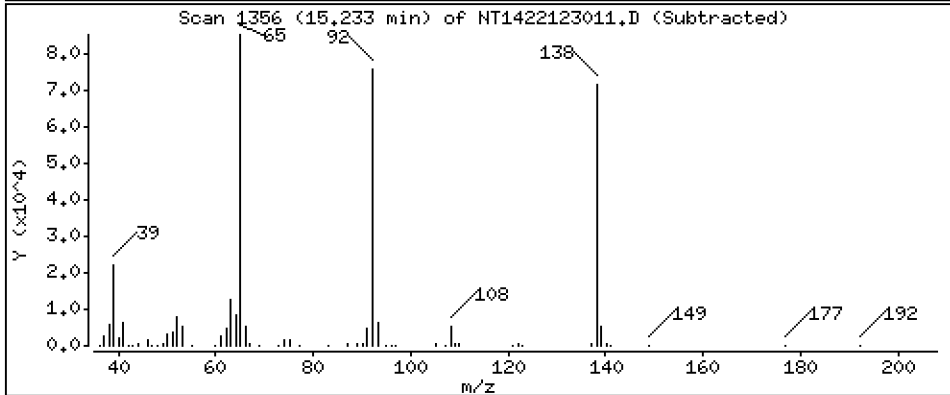
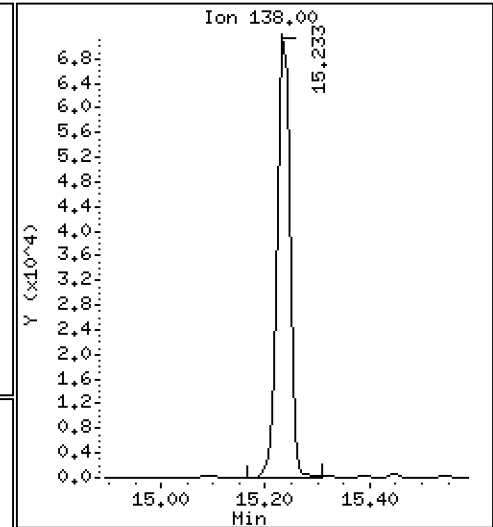
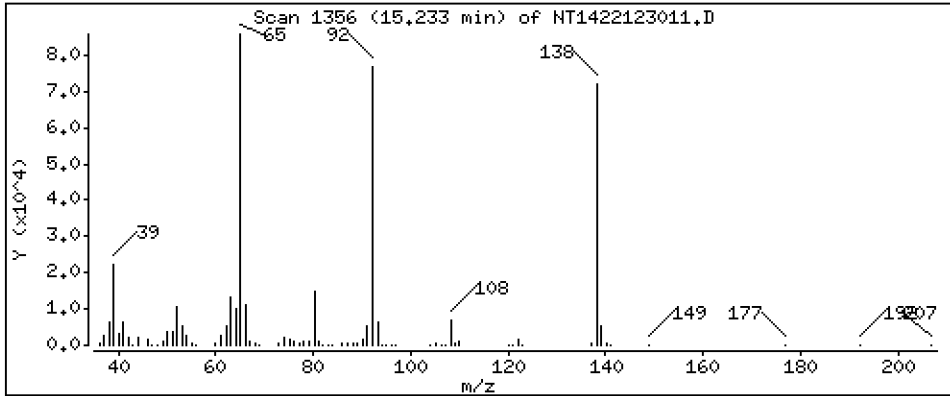
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,088 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

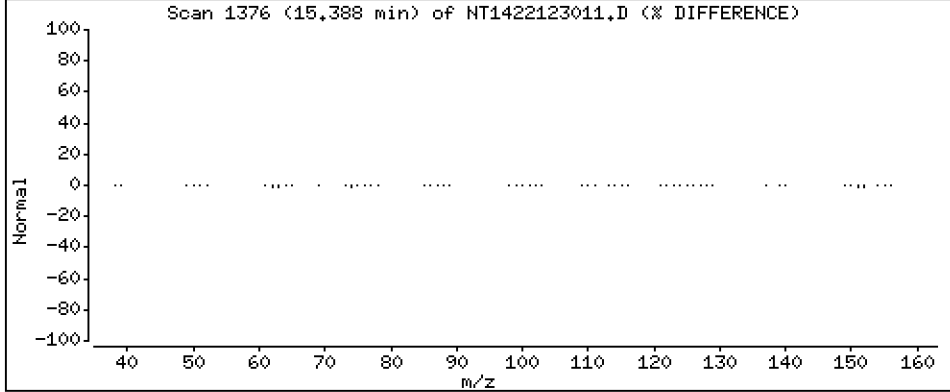
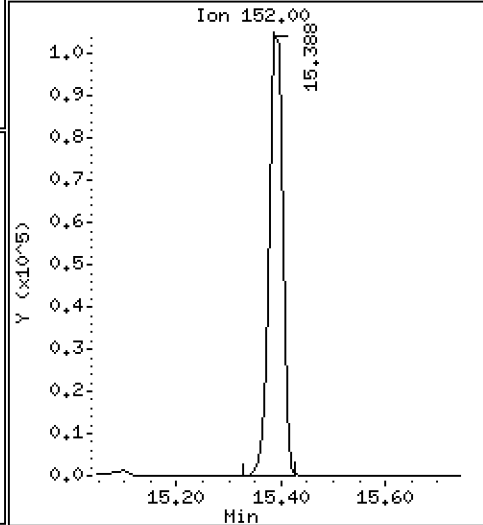
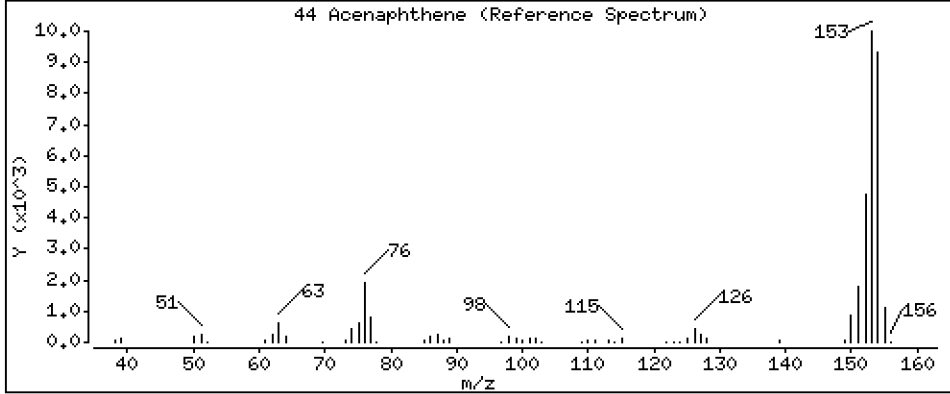
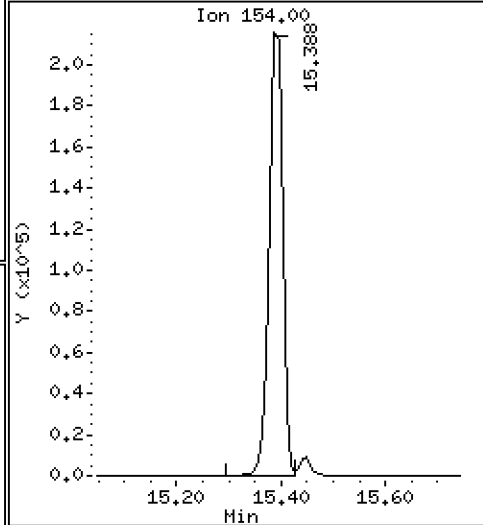
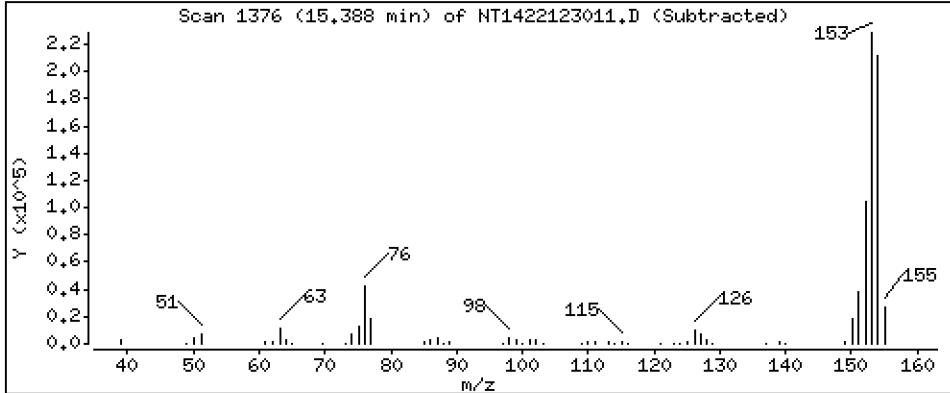
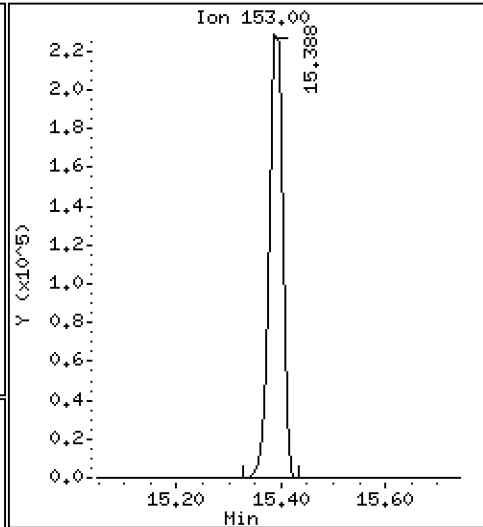
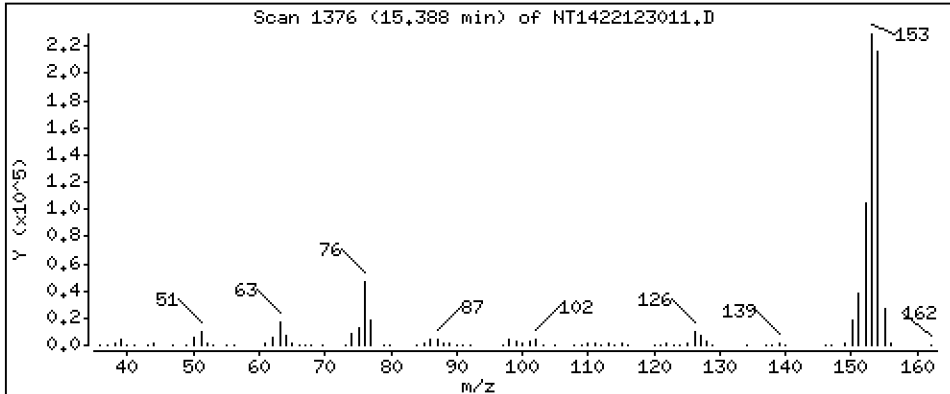
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,916 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

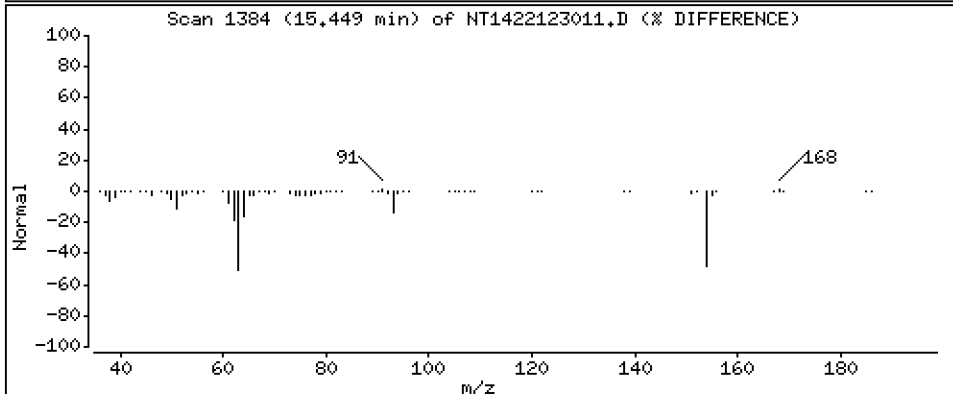
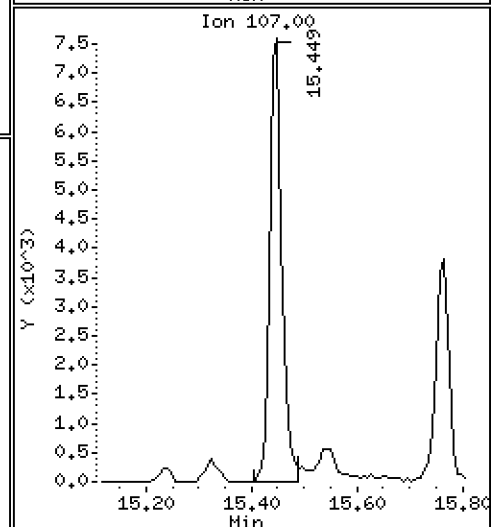
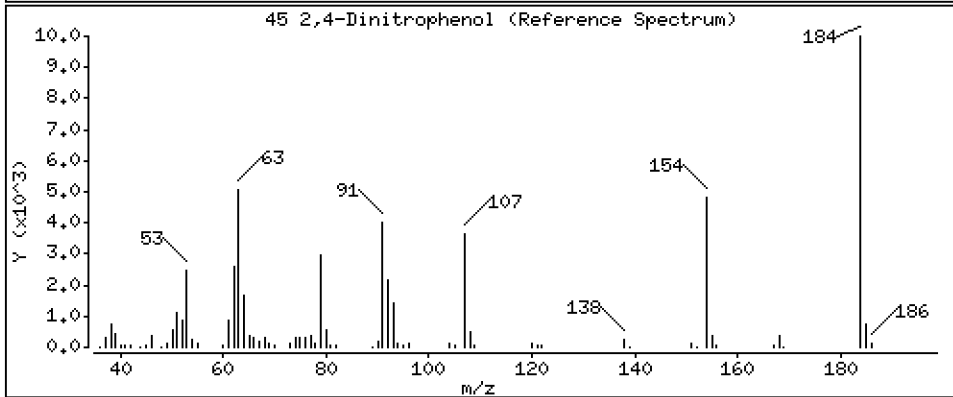
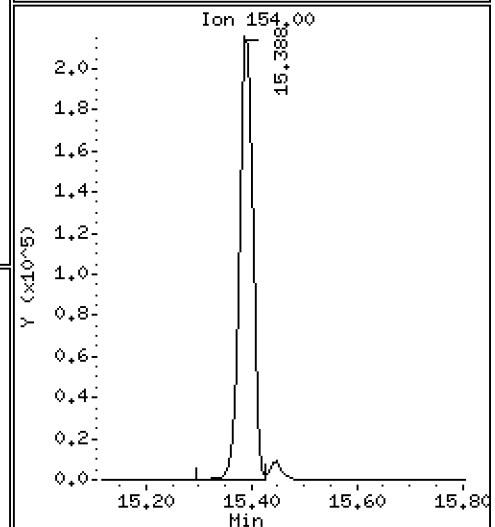
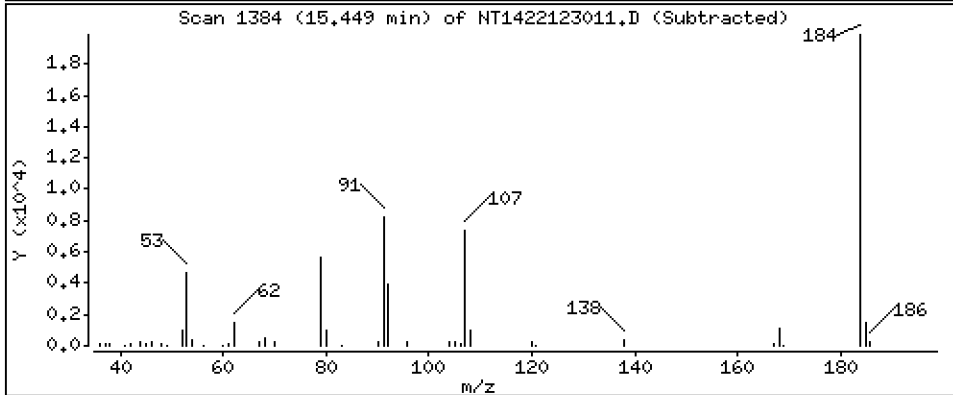
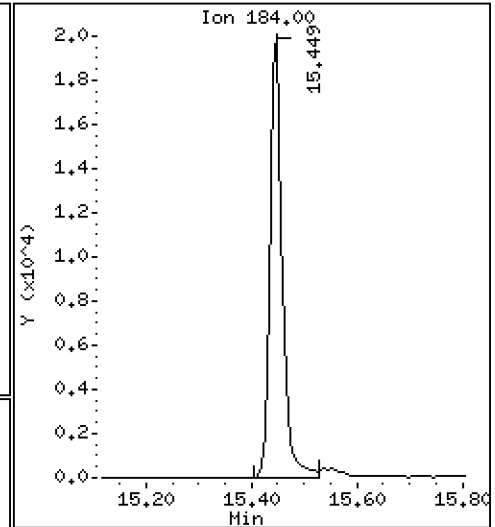
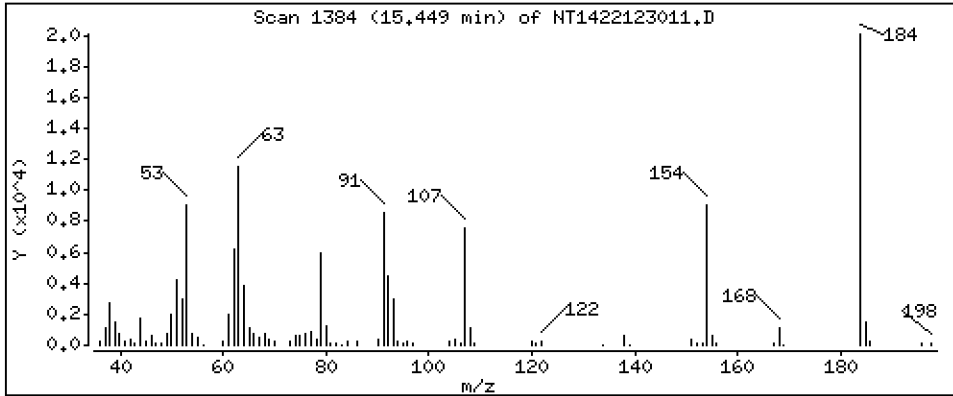
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,036 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

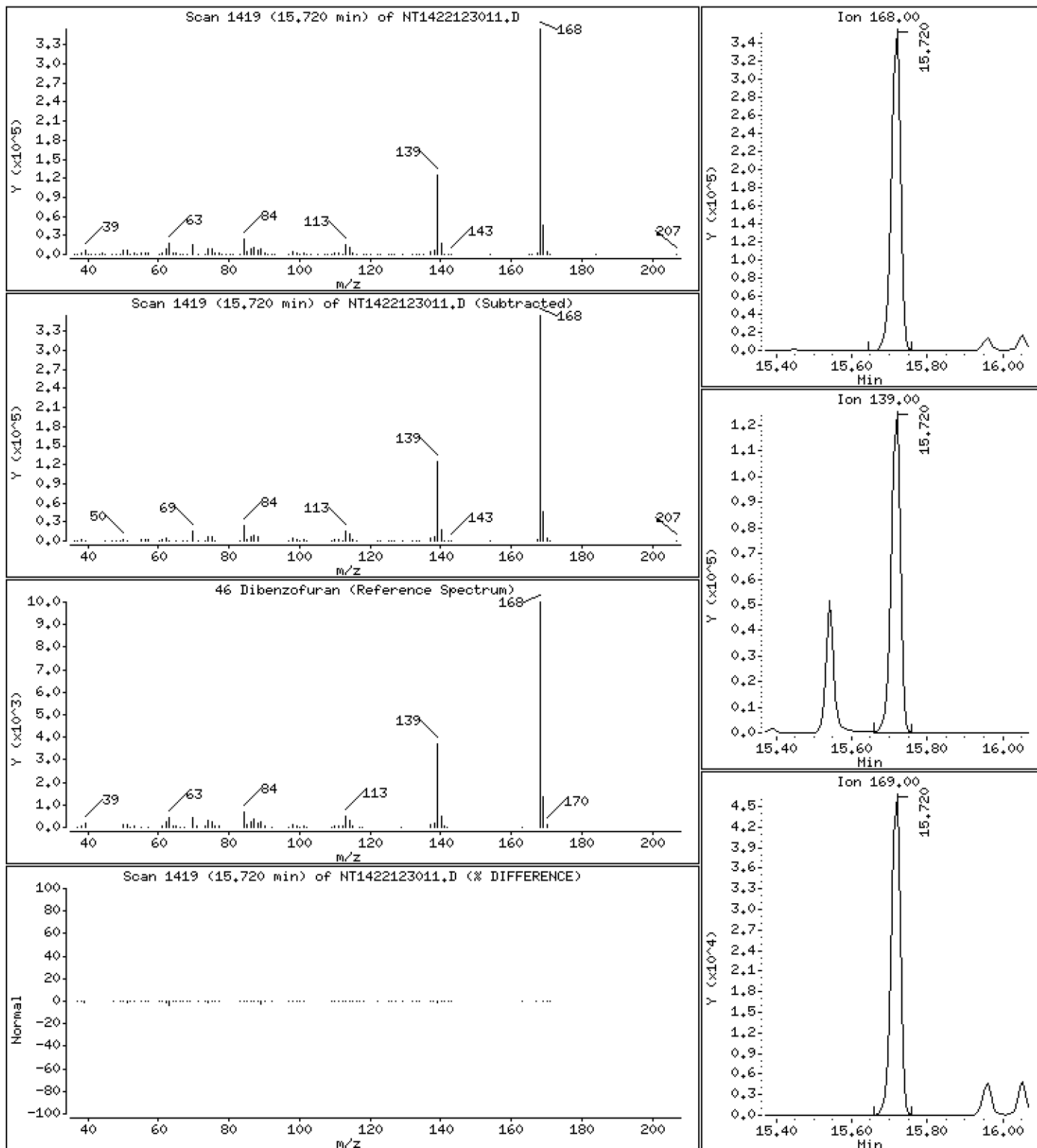
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,709 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

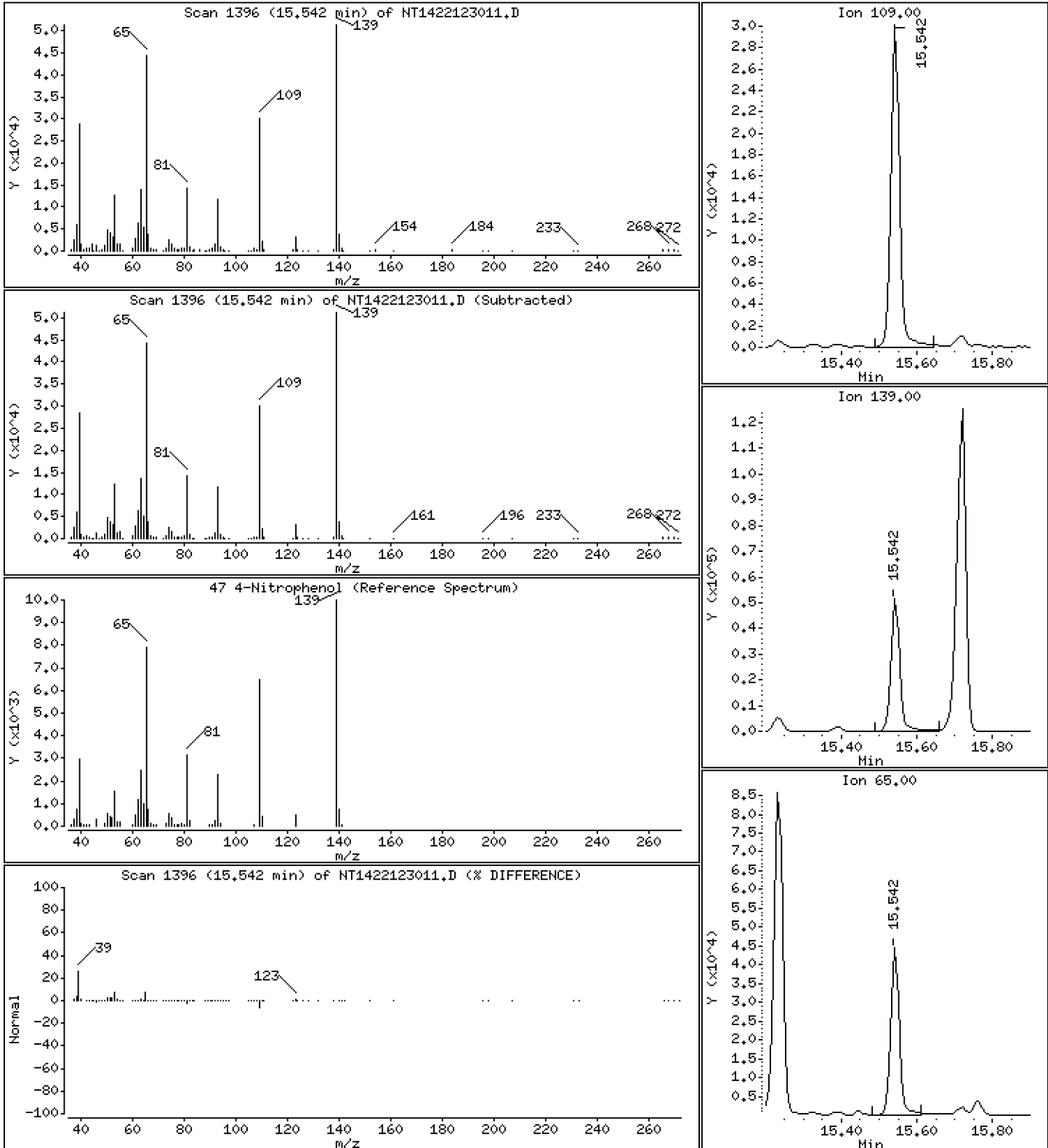
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 4,077 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

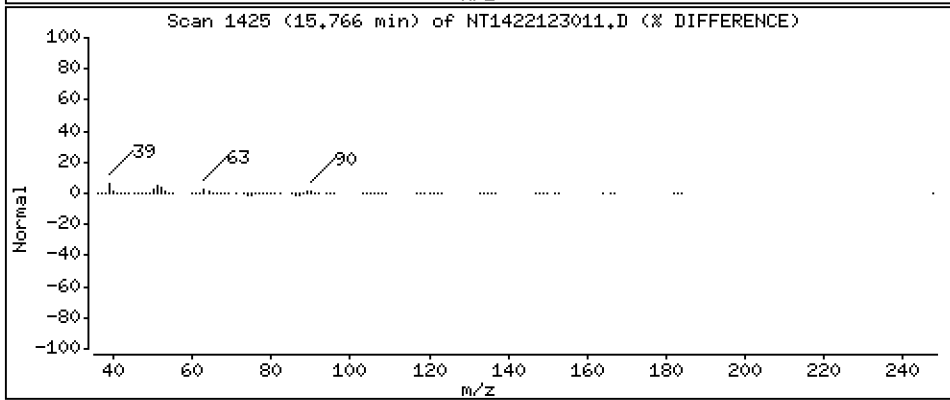
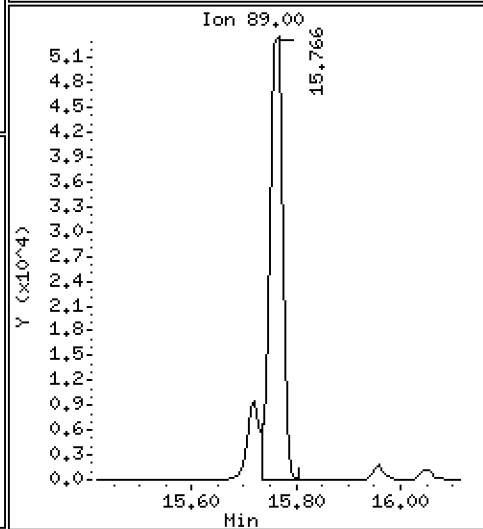
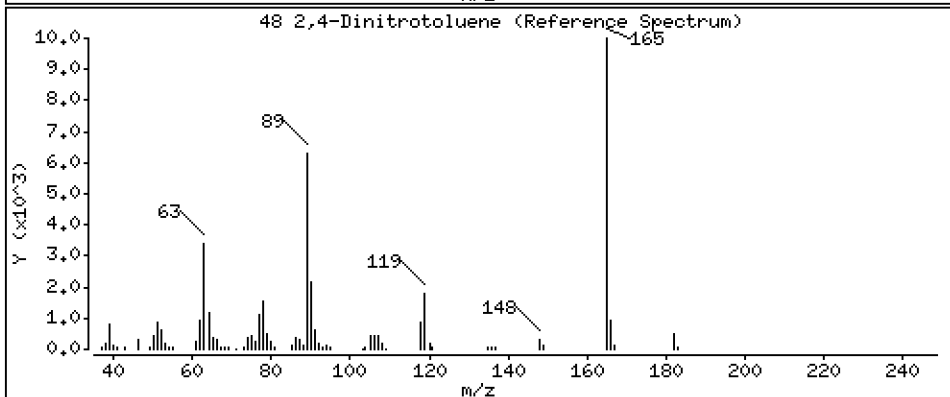
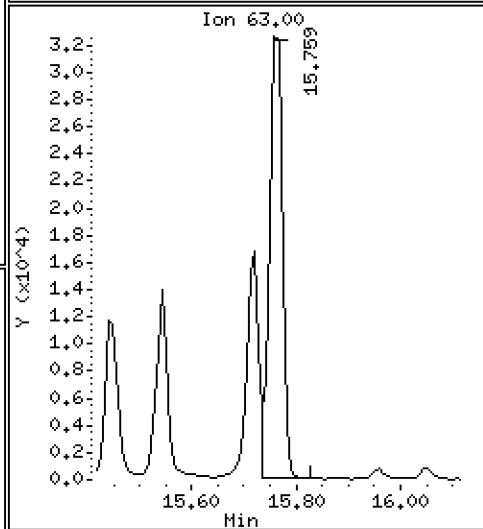
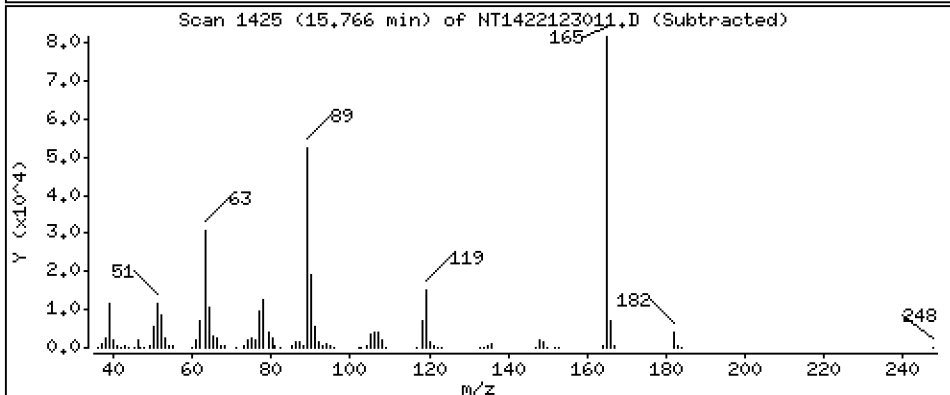
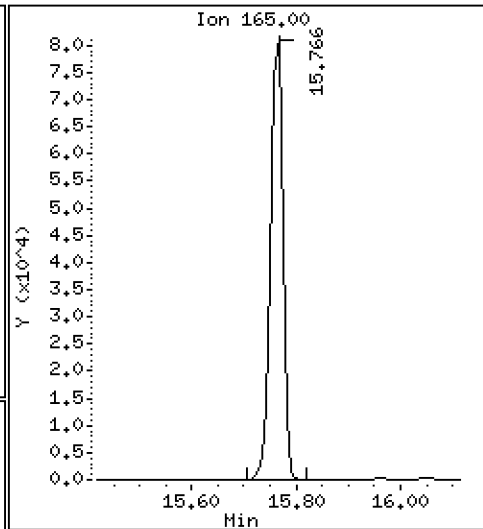
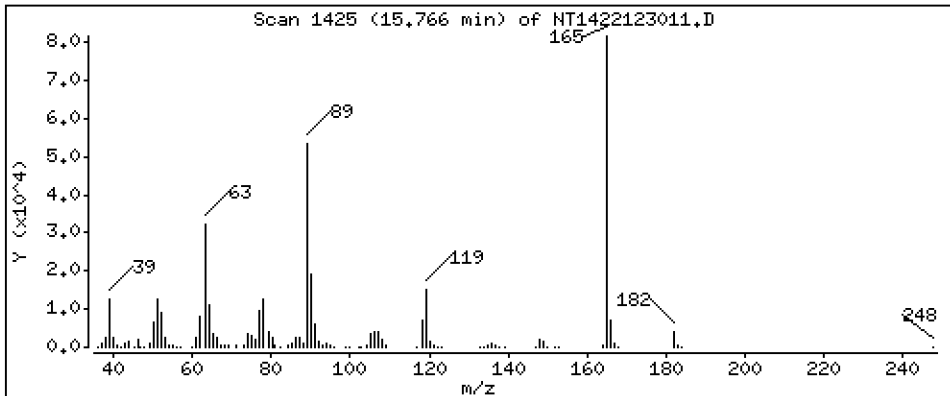
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 4.956 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

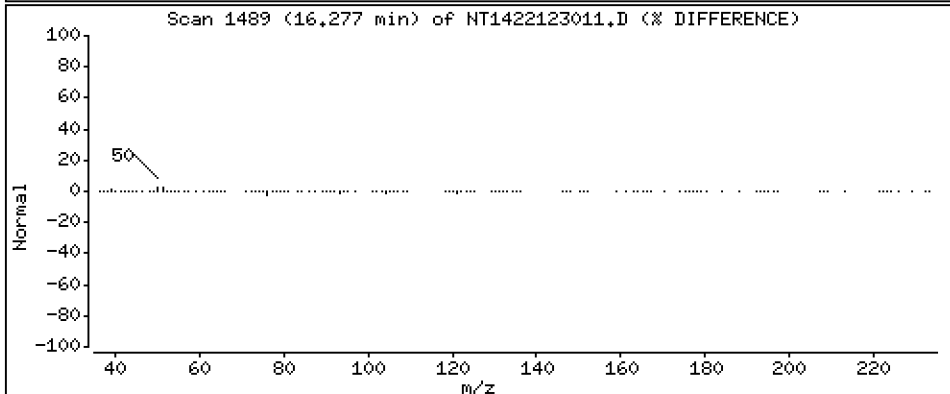
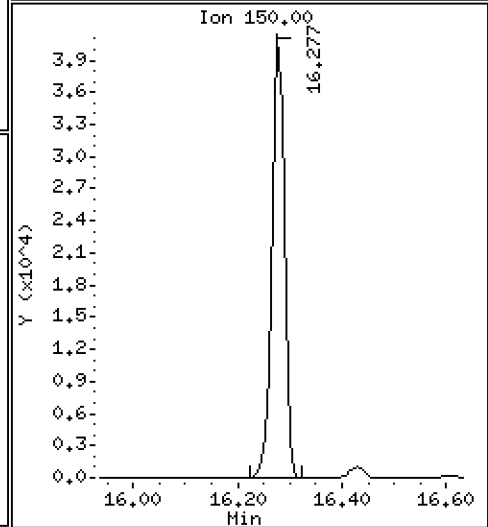
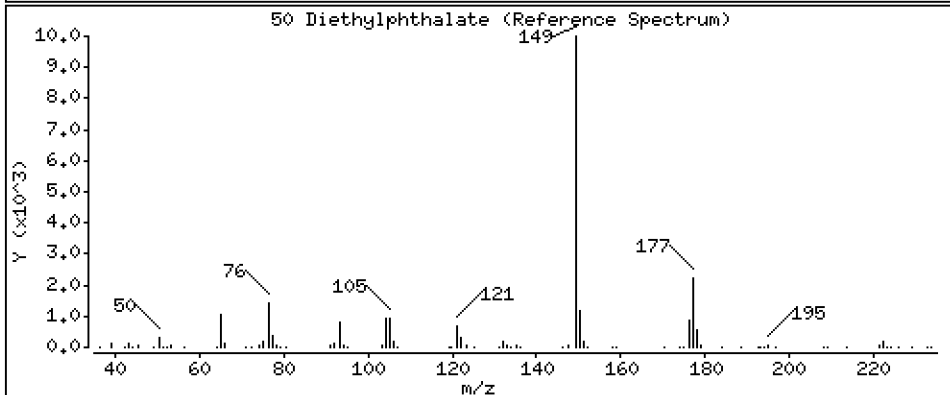
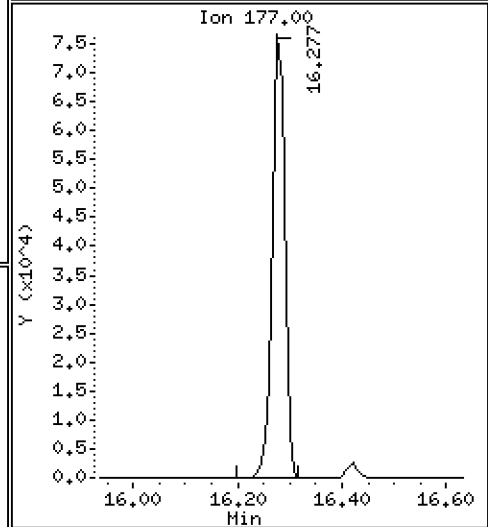
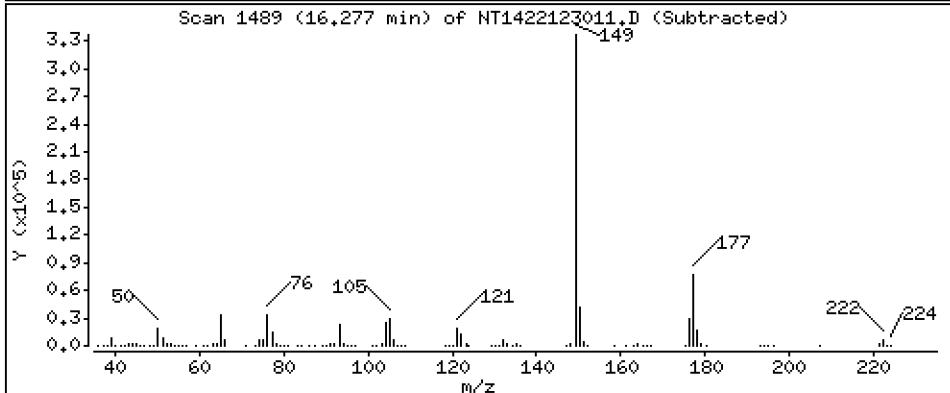
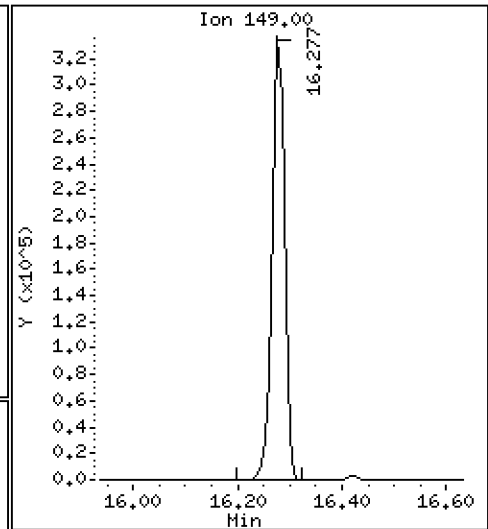
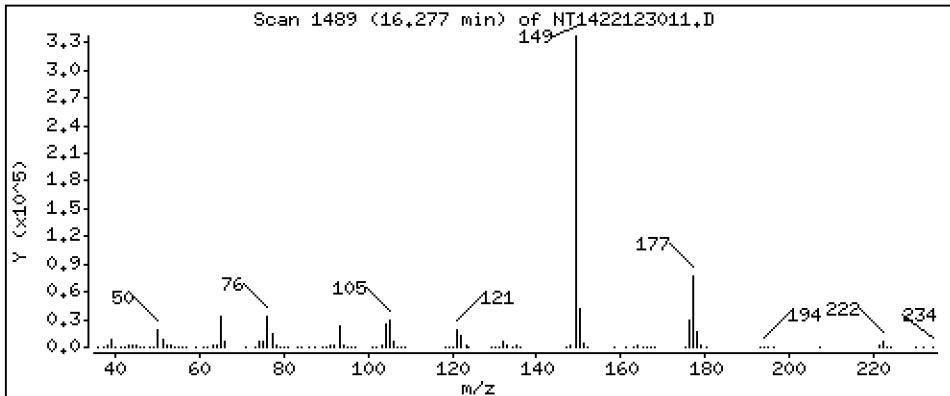
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,353 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

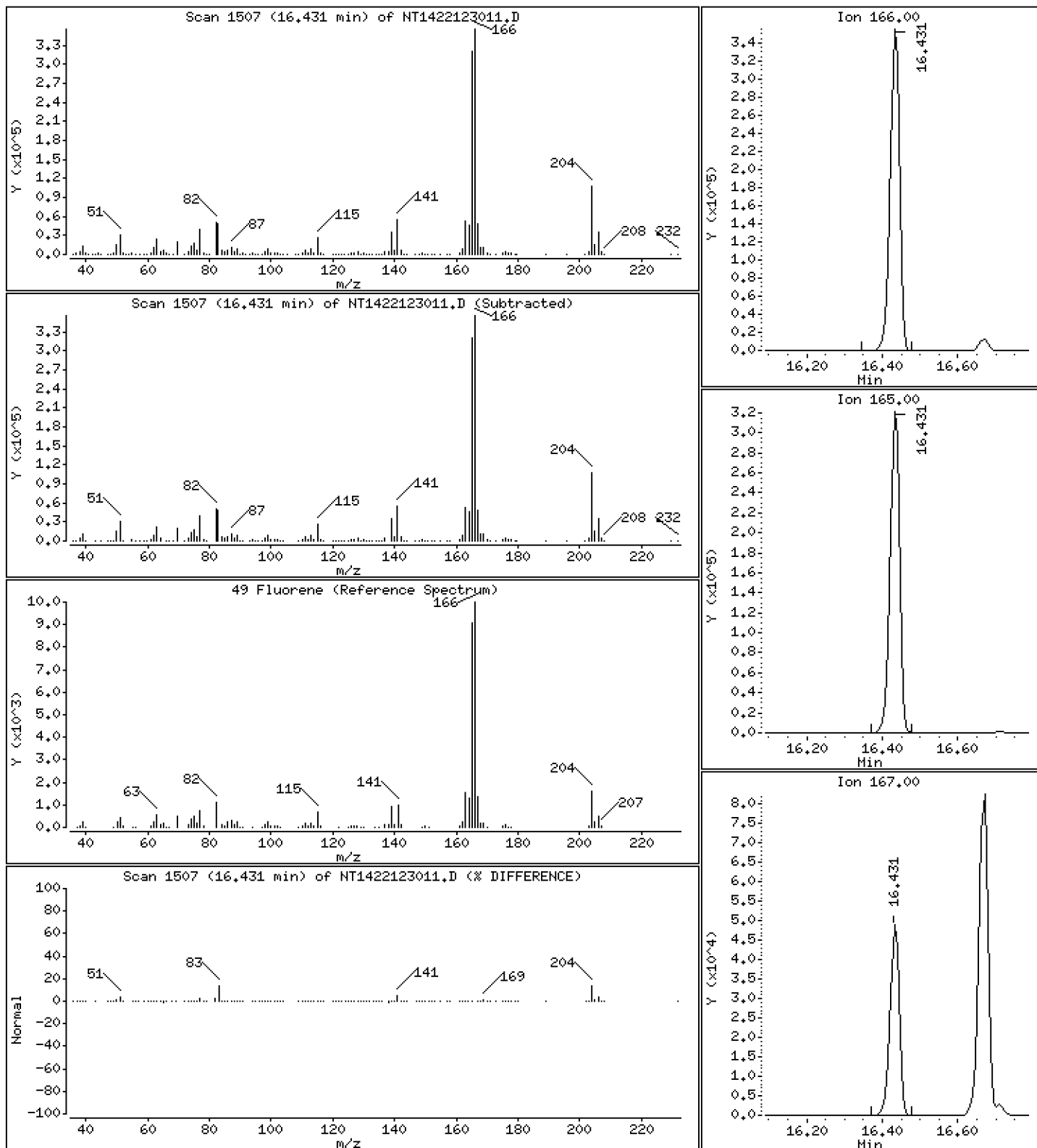
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,230 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

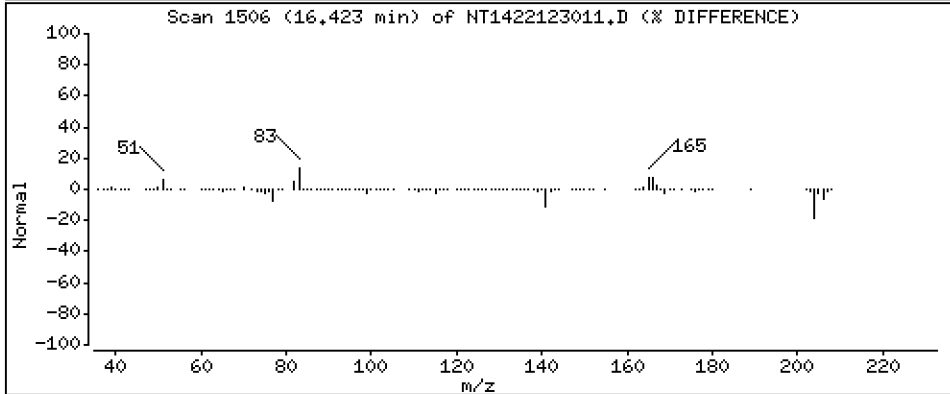
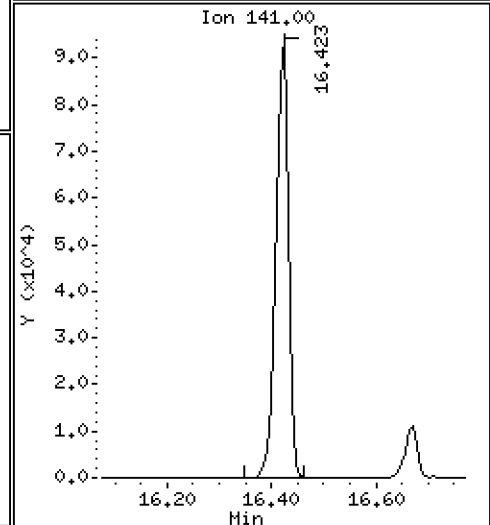
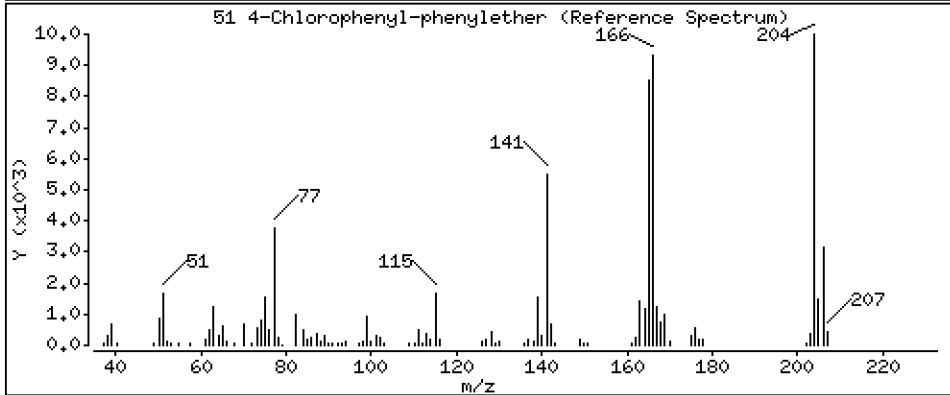
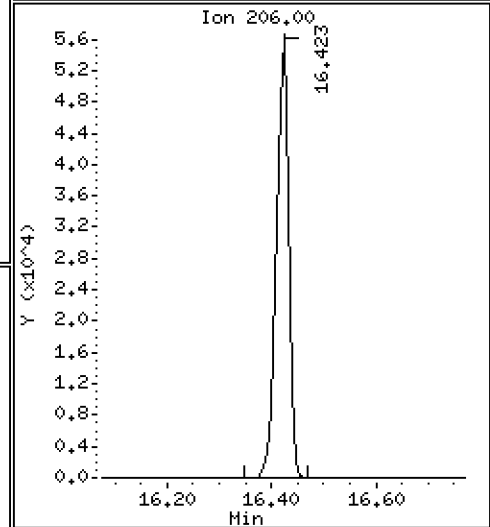
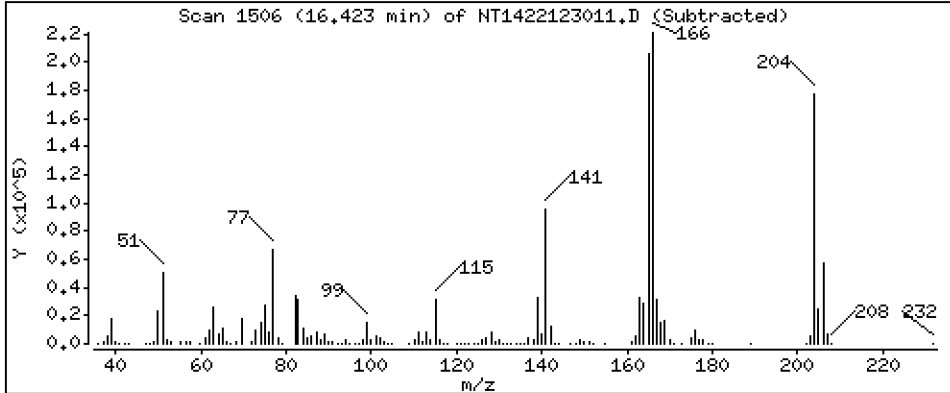
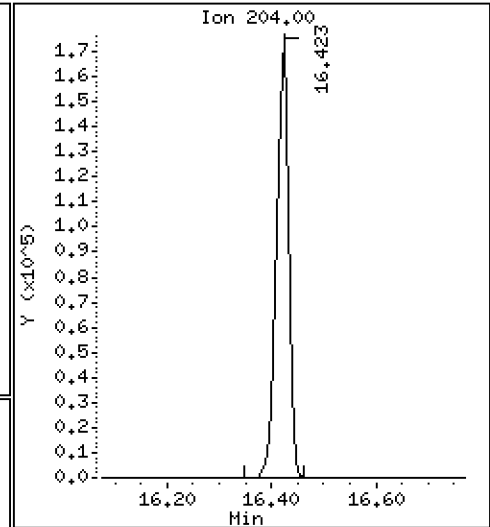
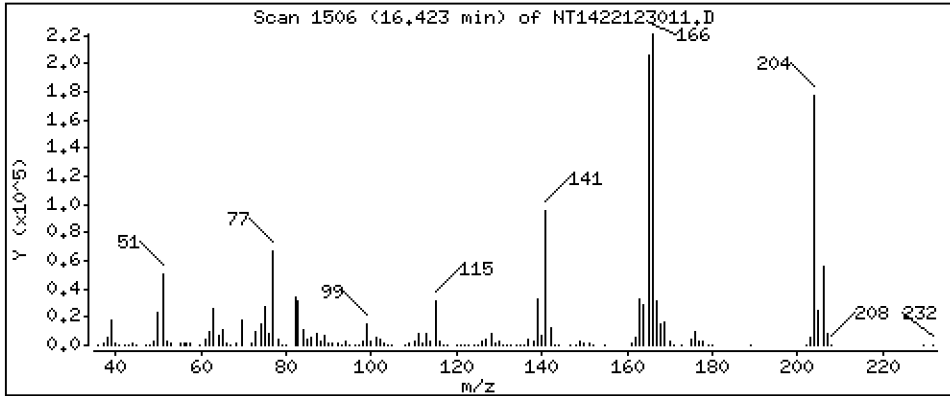
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,094 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

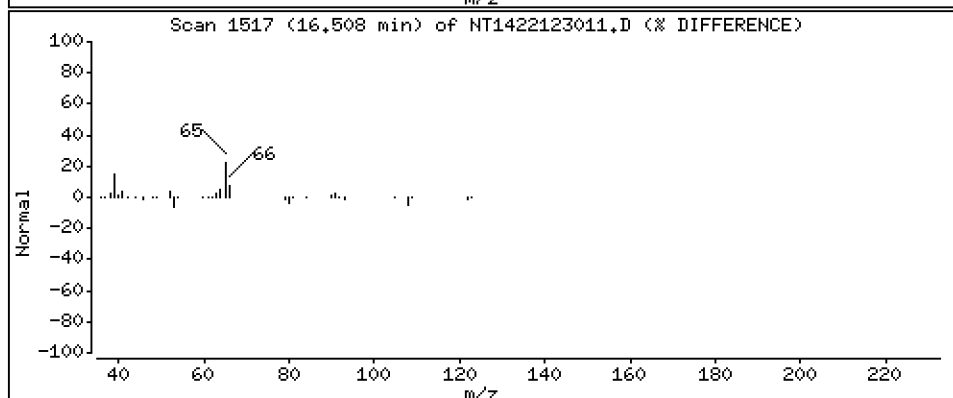
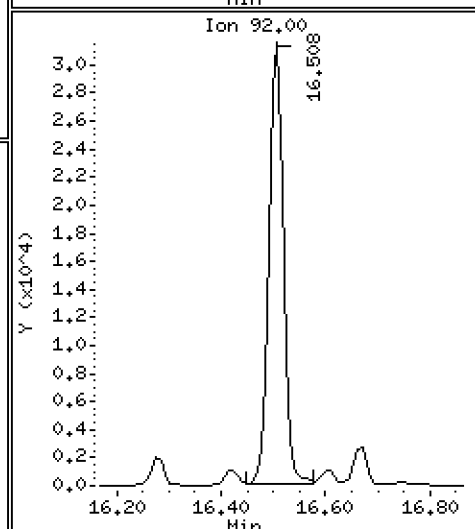
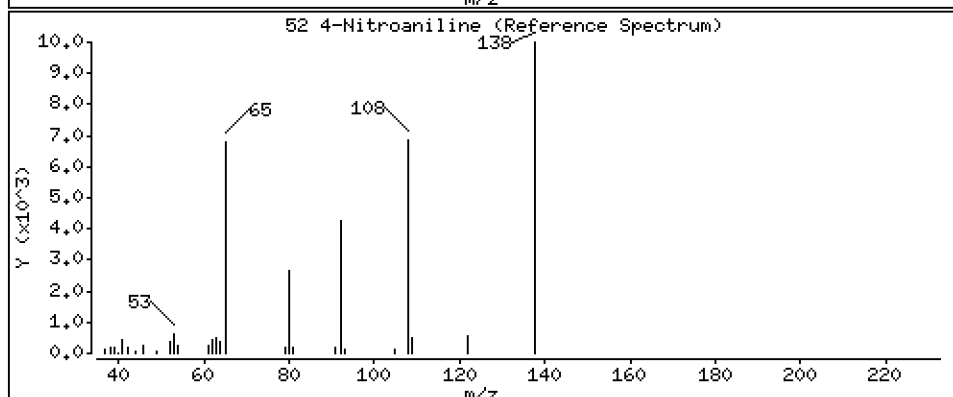
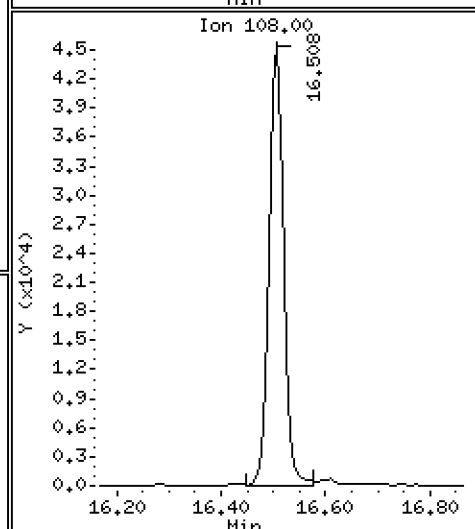
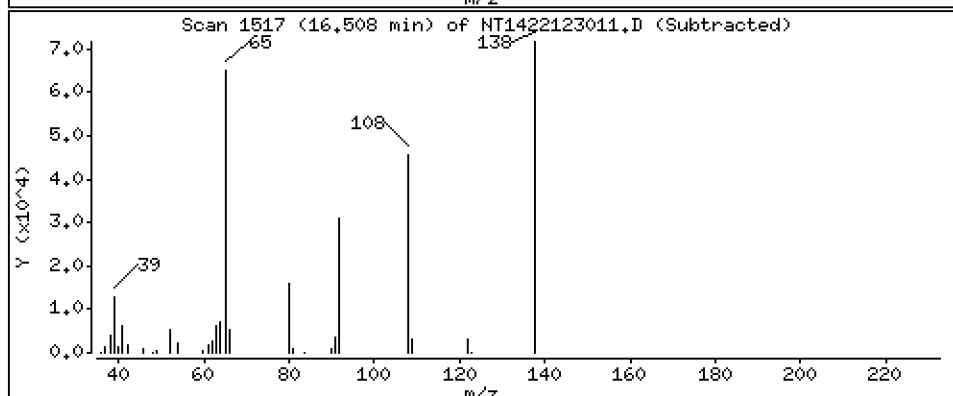
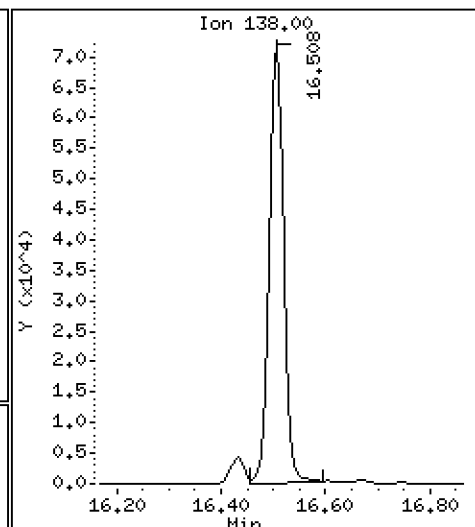
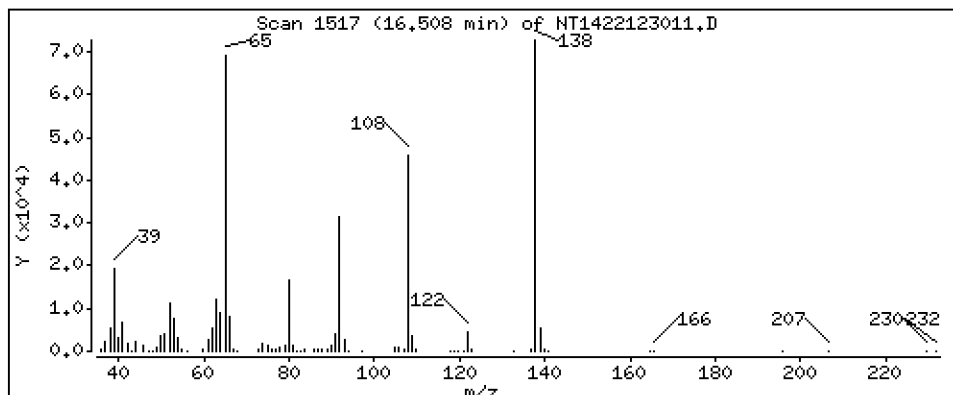
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,733 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

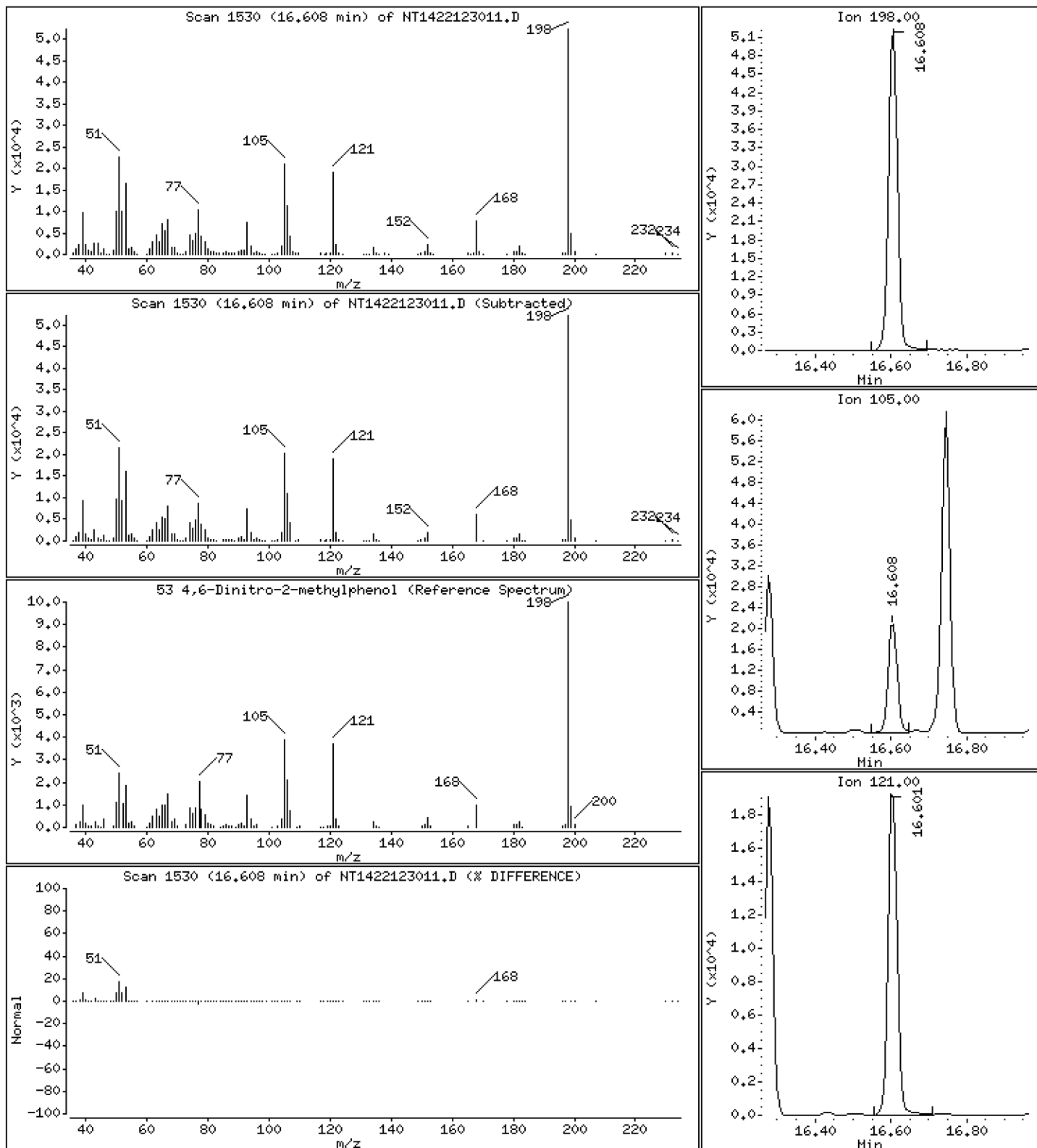
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 4.082 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

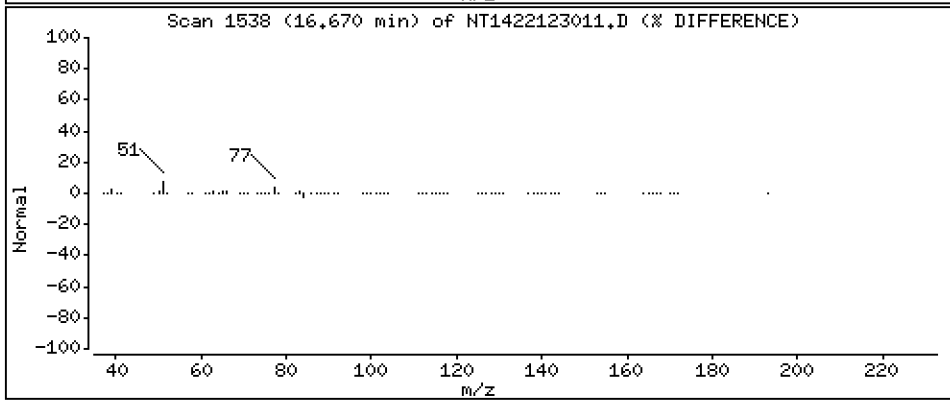
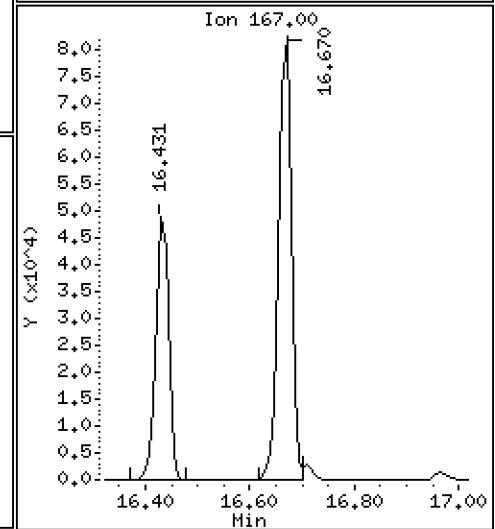
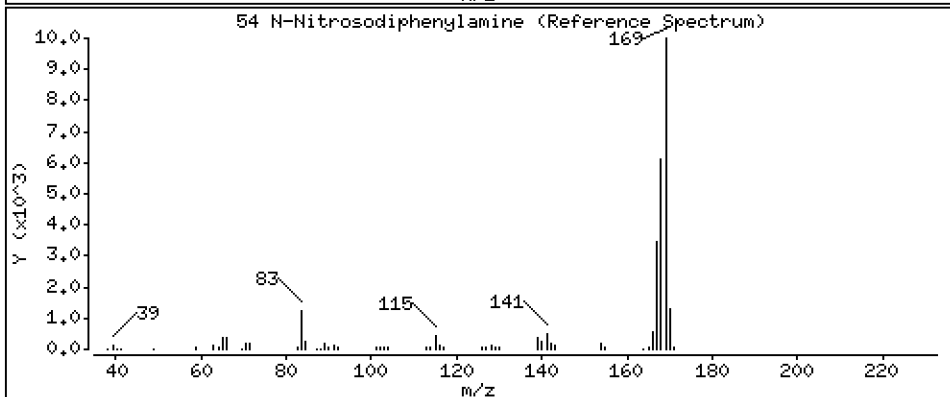
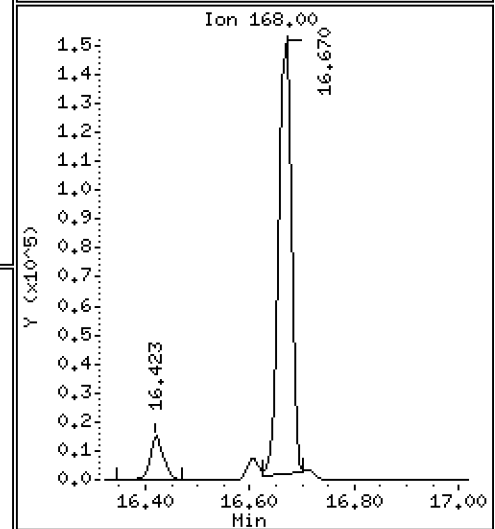
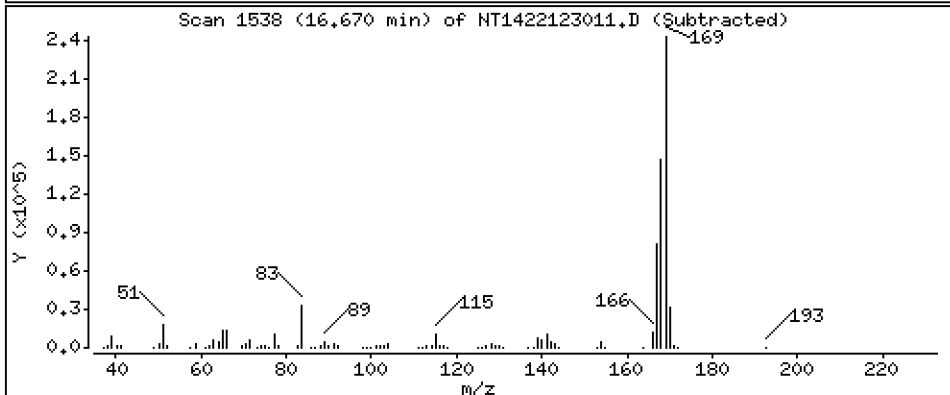
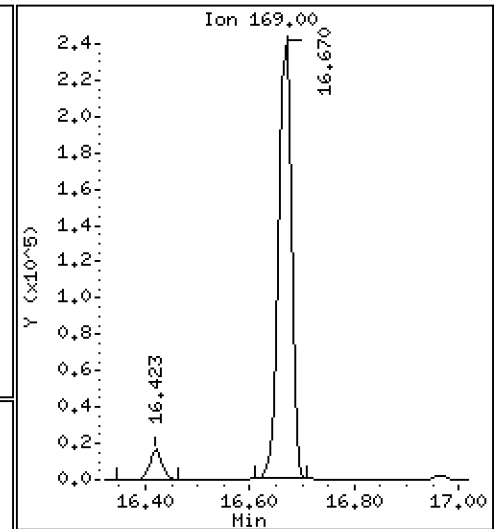
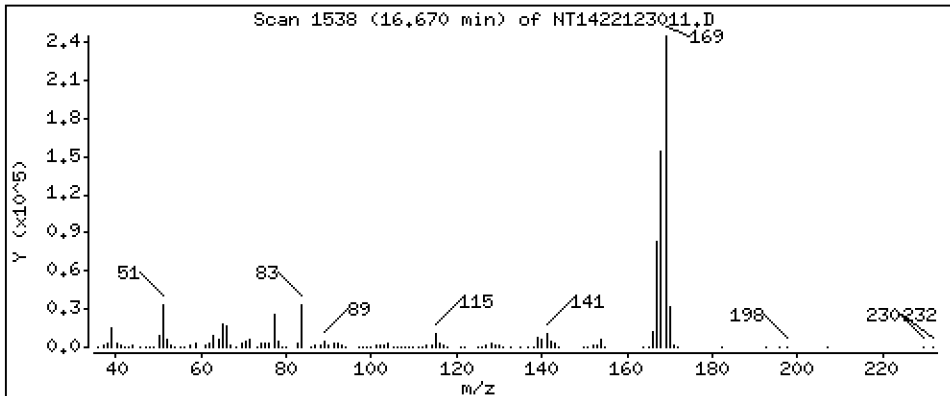
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,775 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

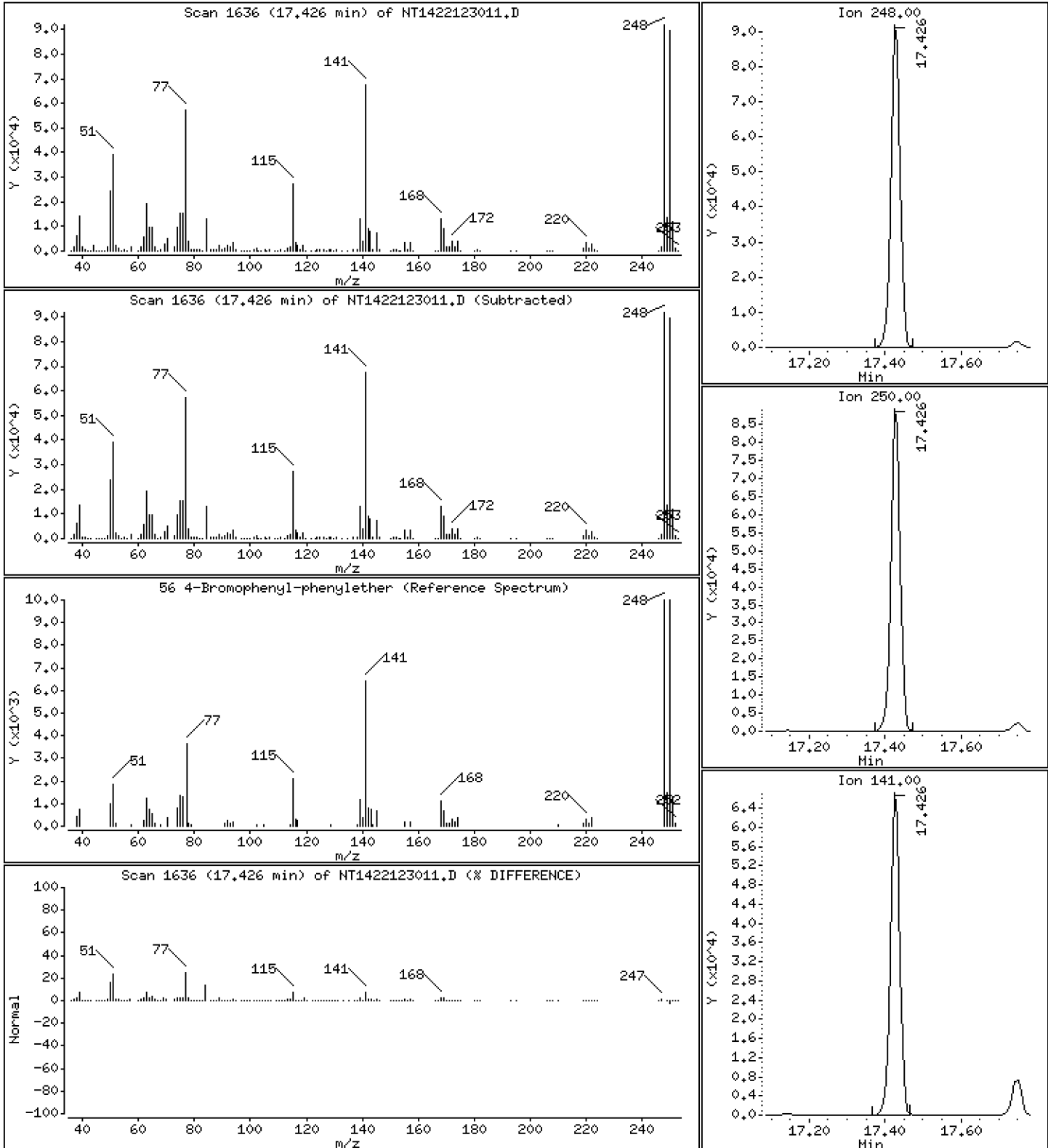
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,938 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

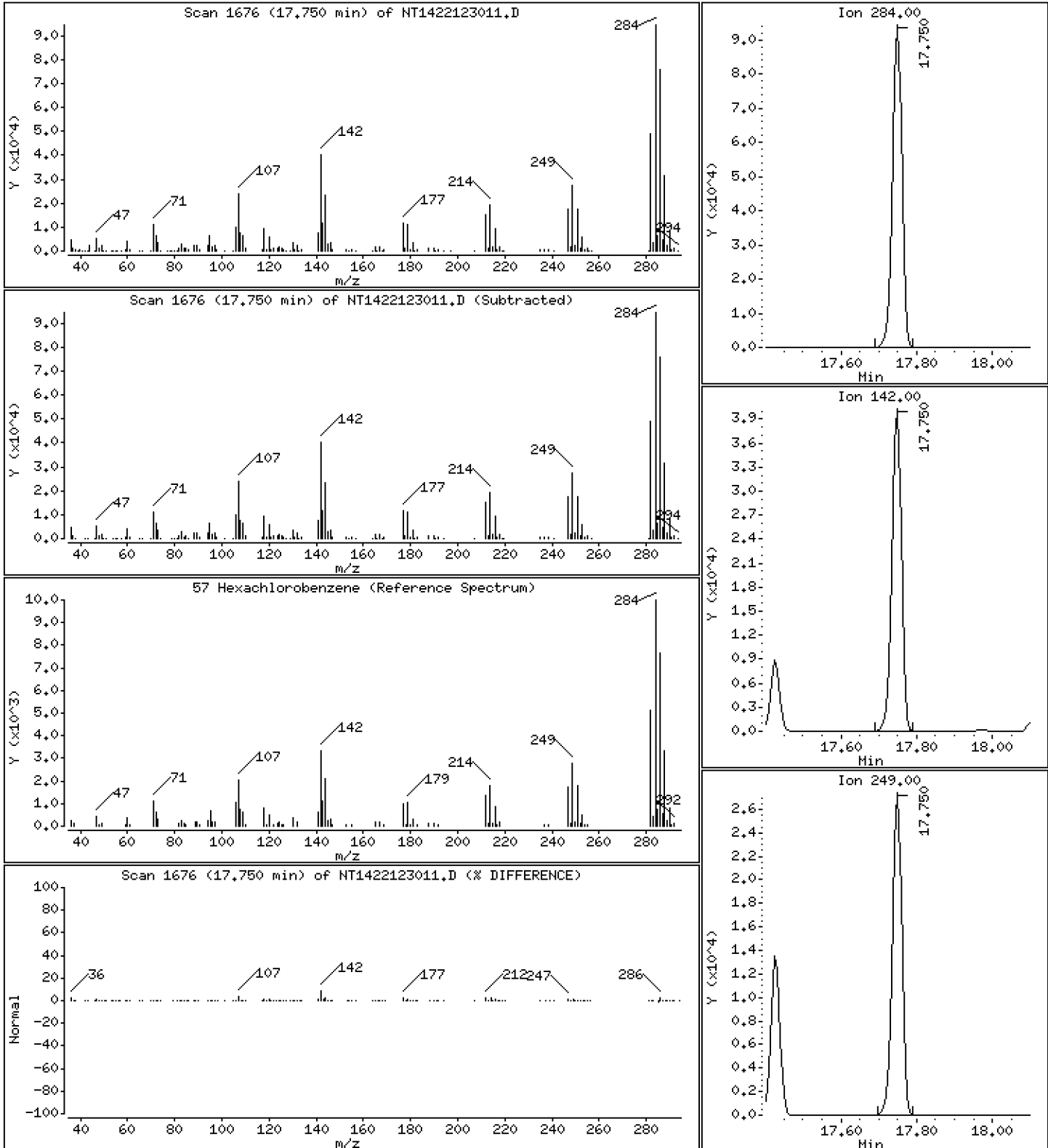
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,553 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

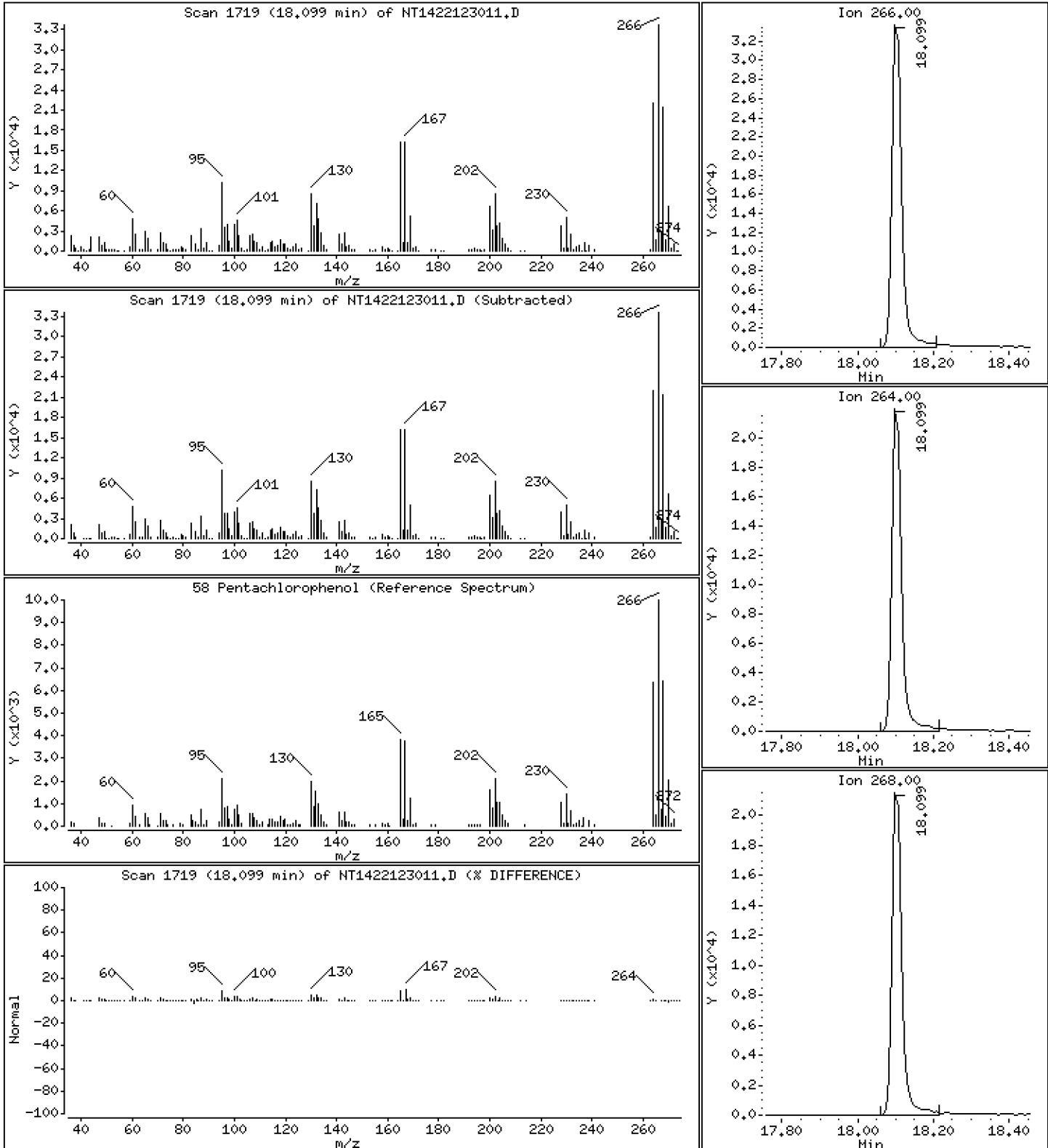
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,796 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

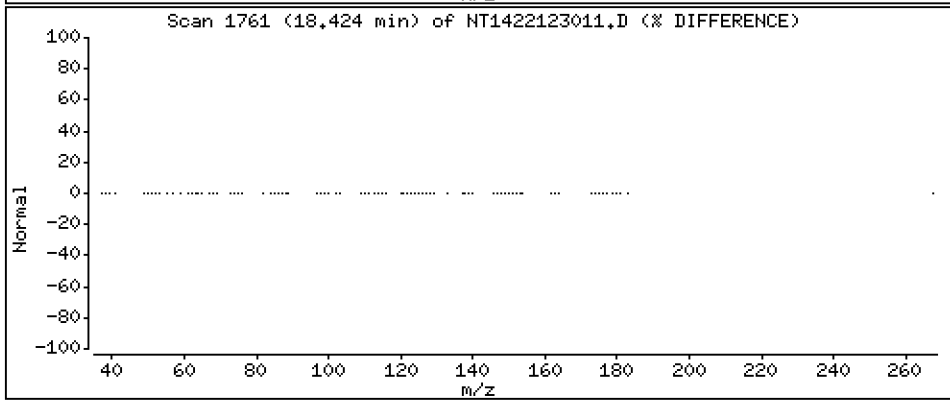
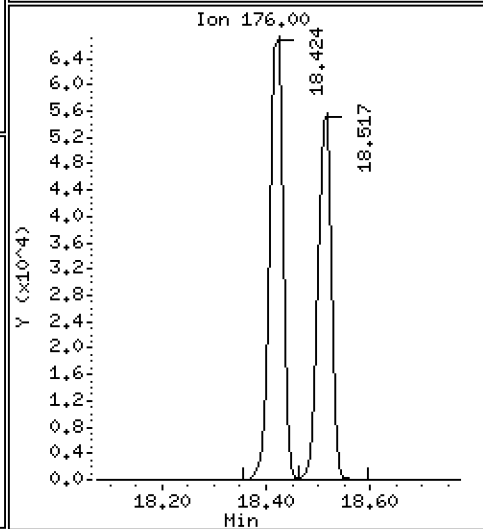
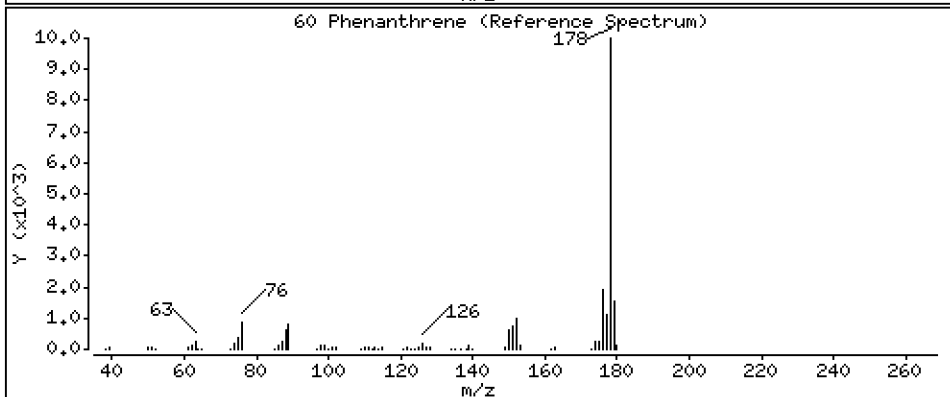
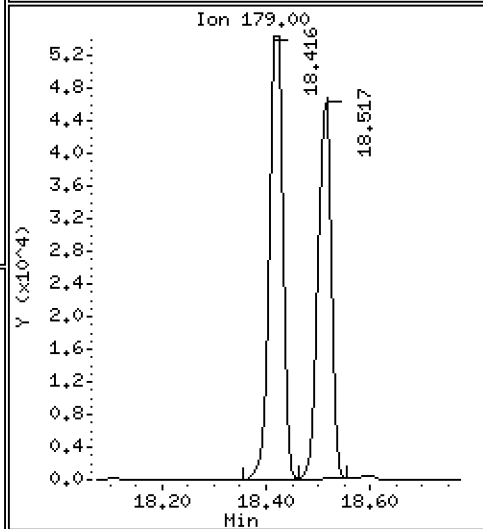
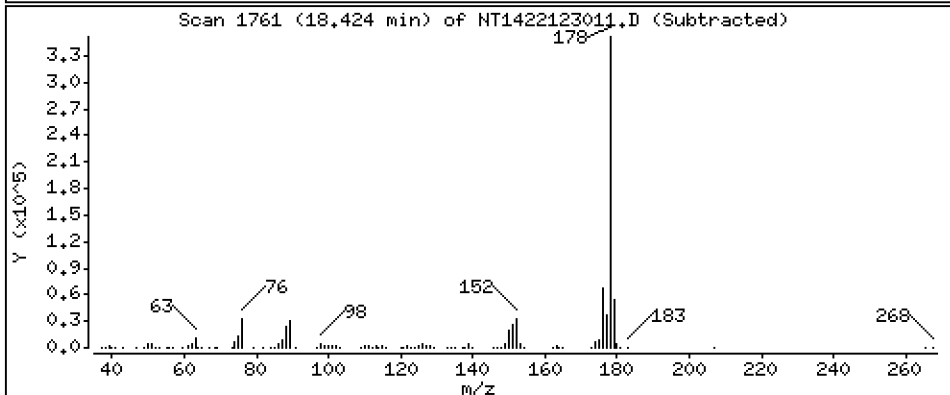
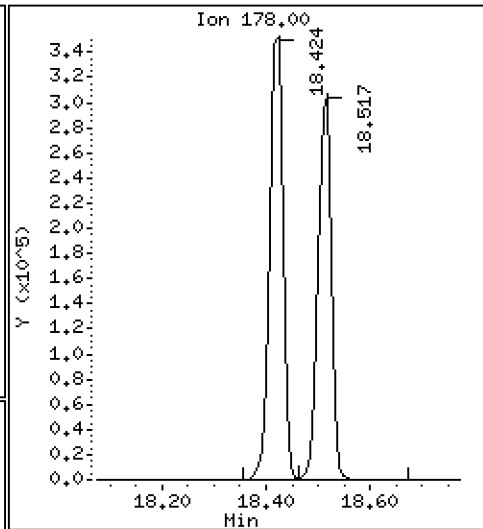
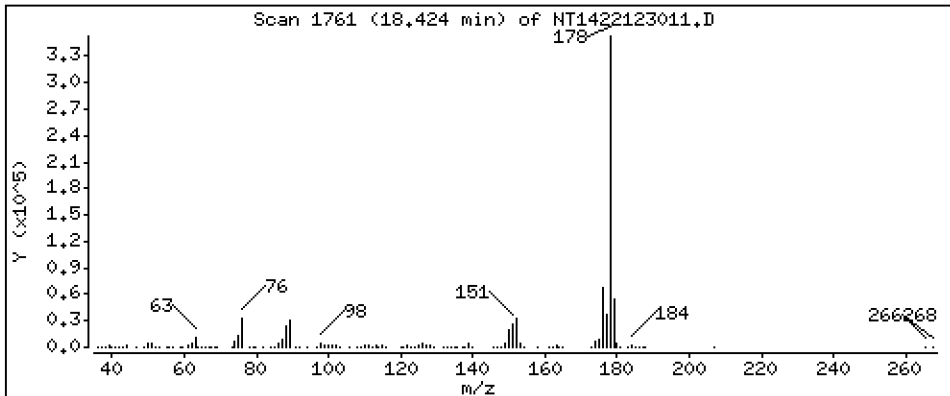
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,767 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

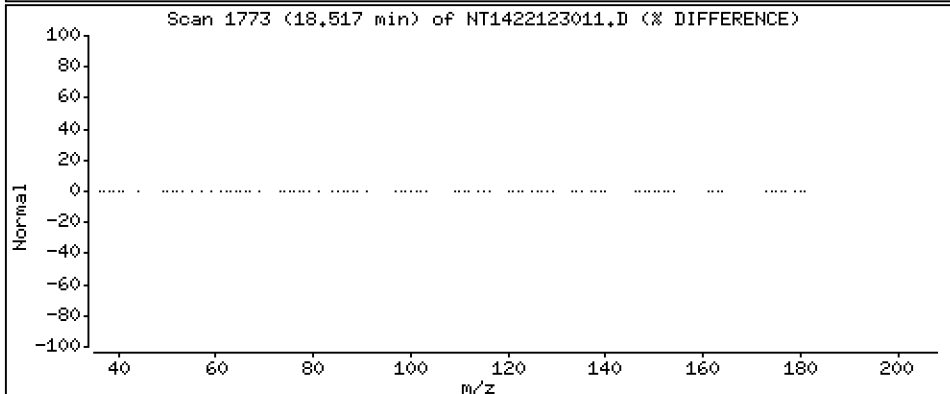
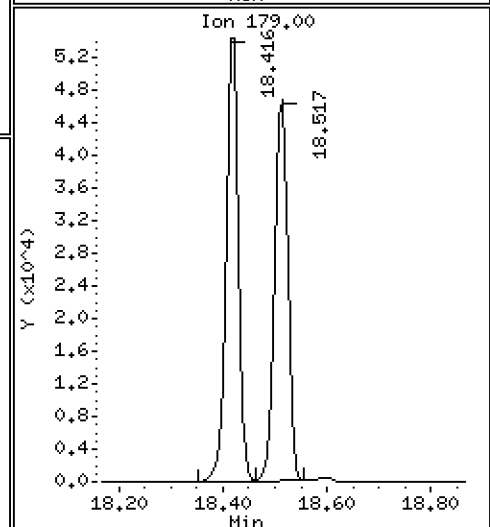
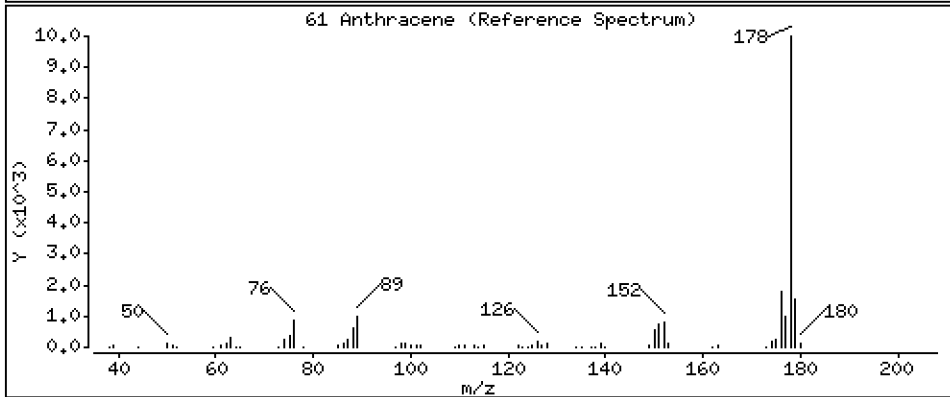
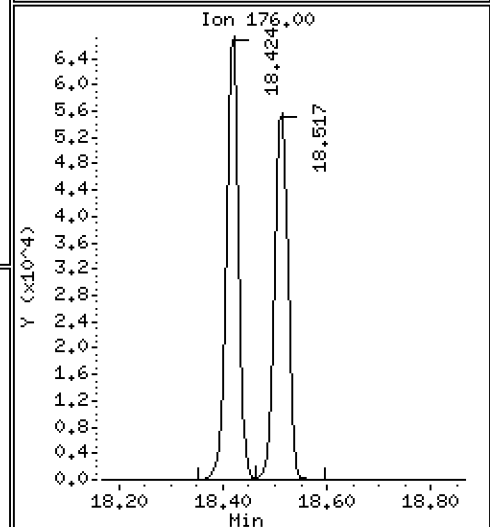
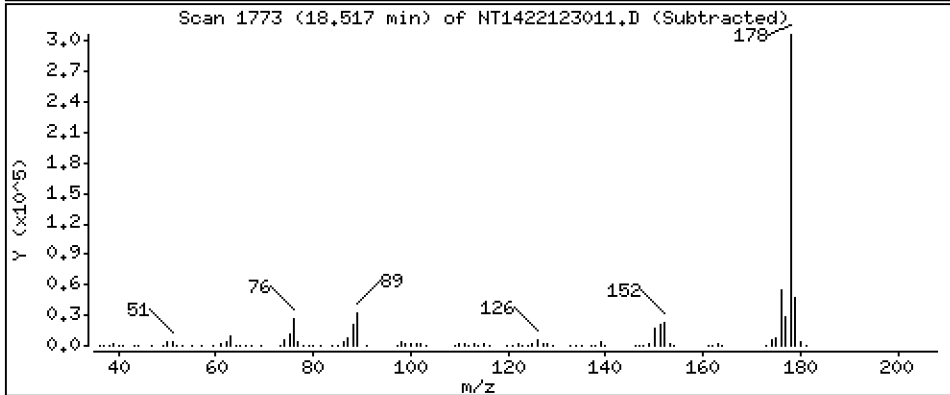
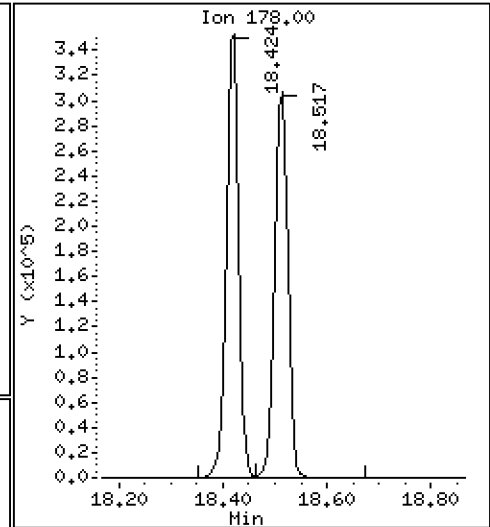
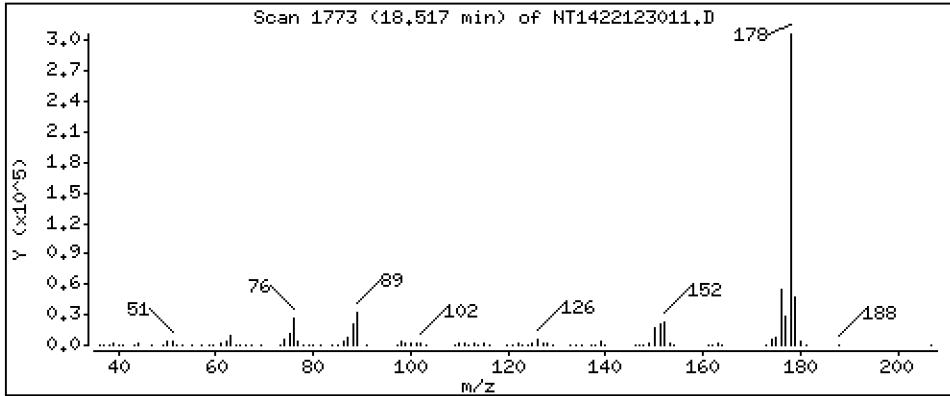
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,373 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

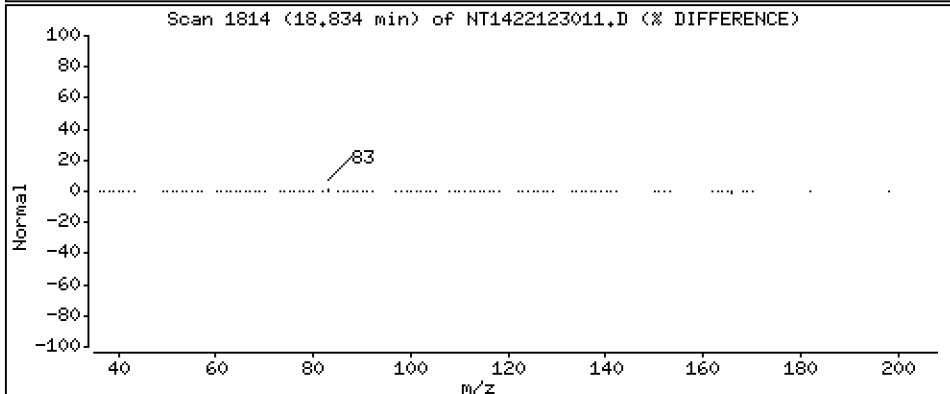
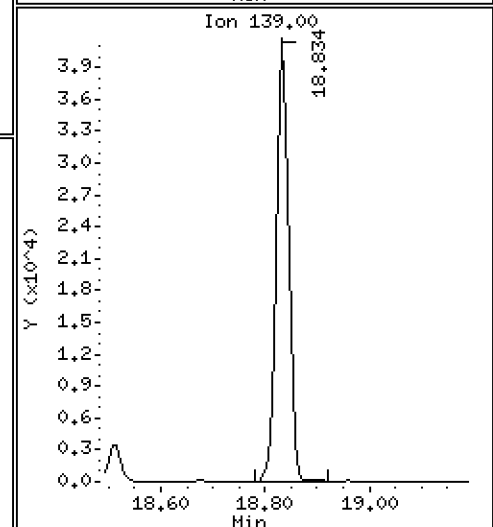
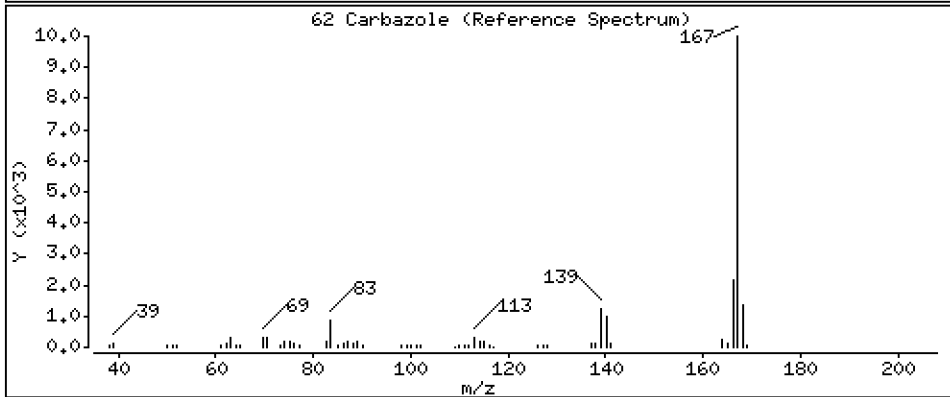
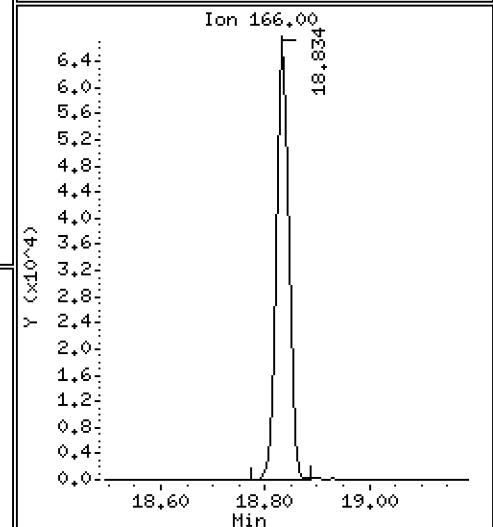
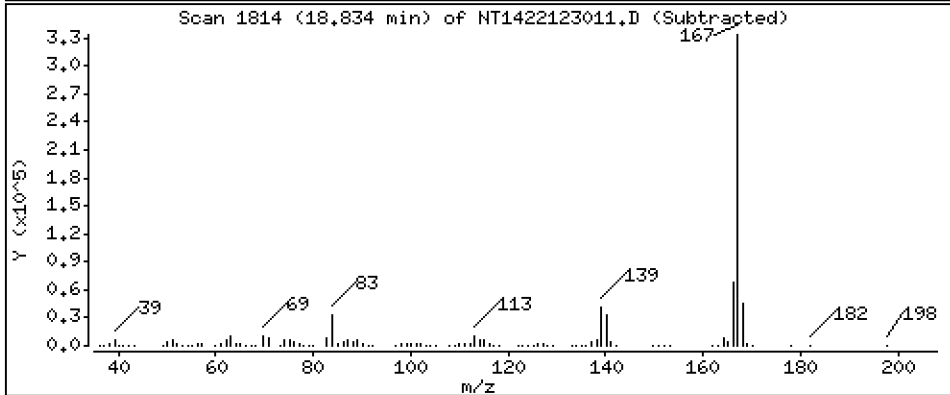
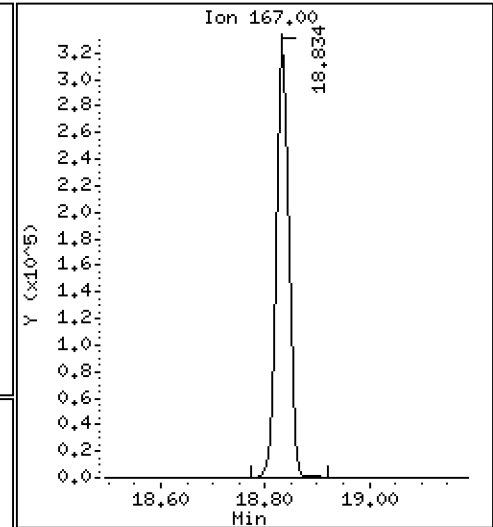
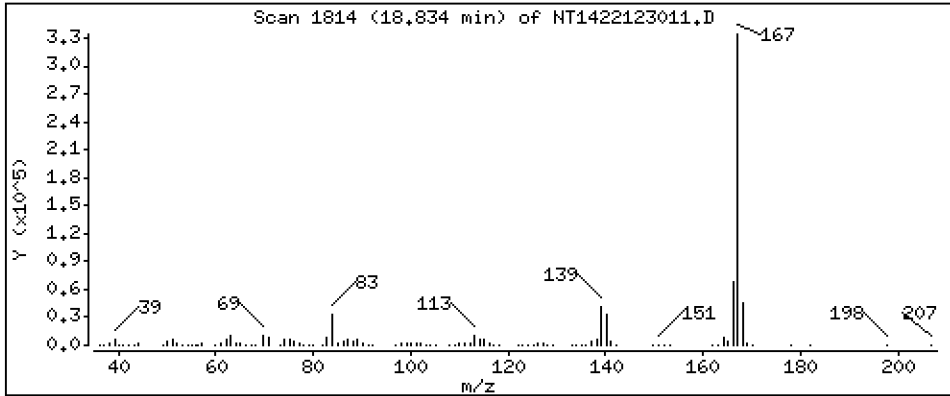
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,620 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

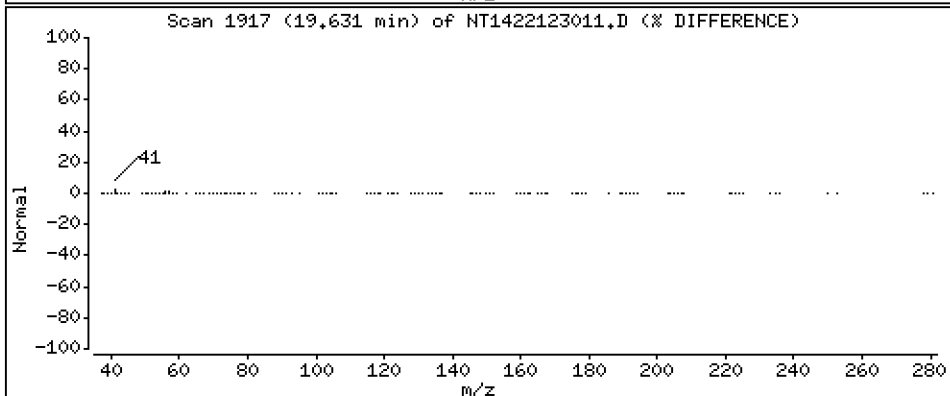
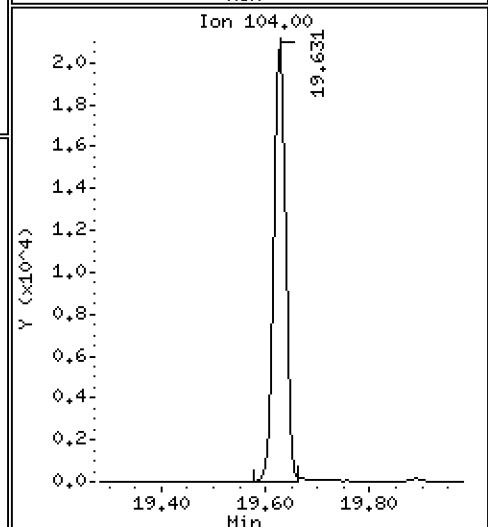
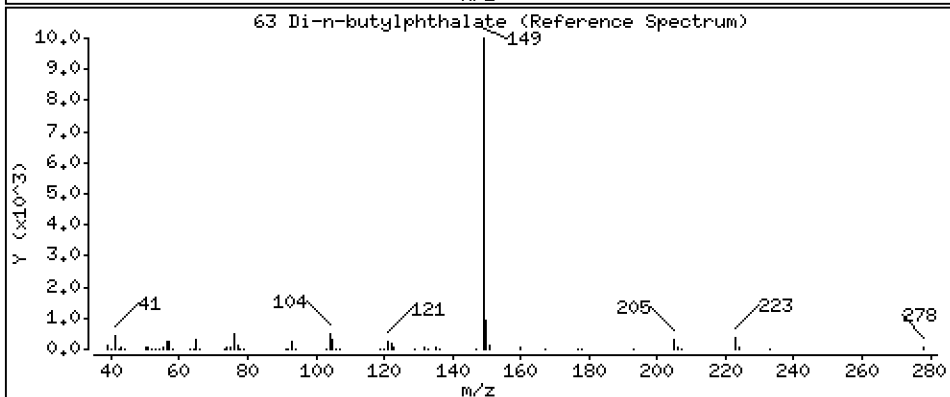
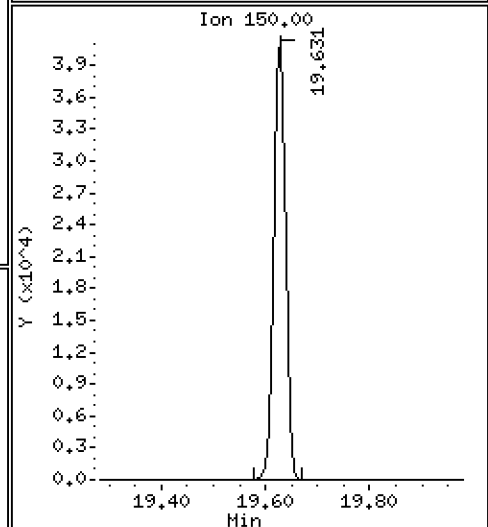
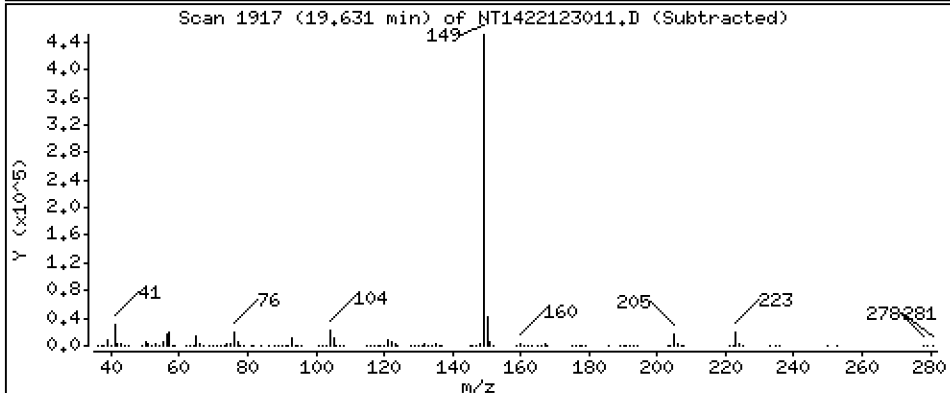
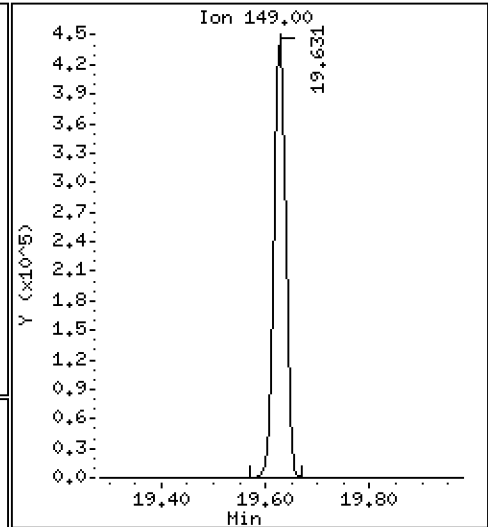
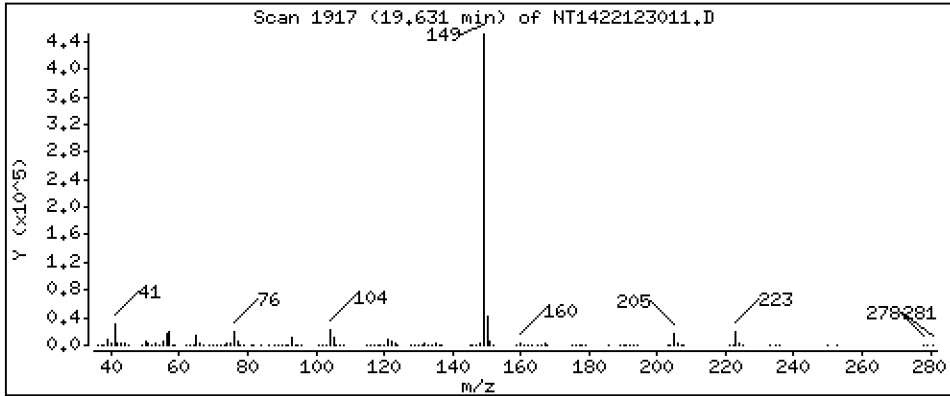
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,931 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

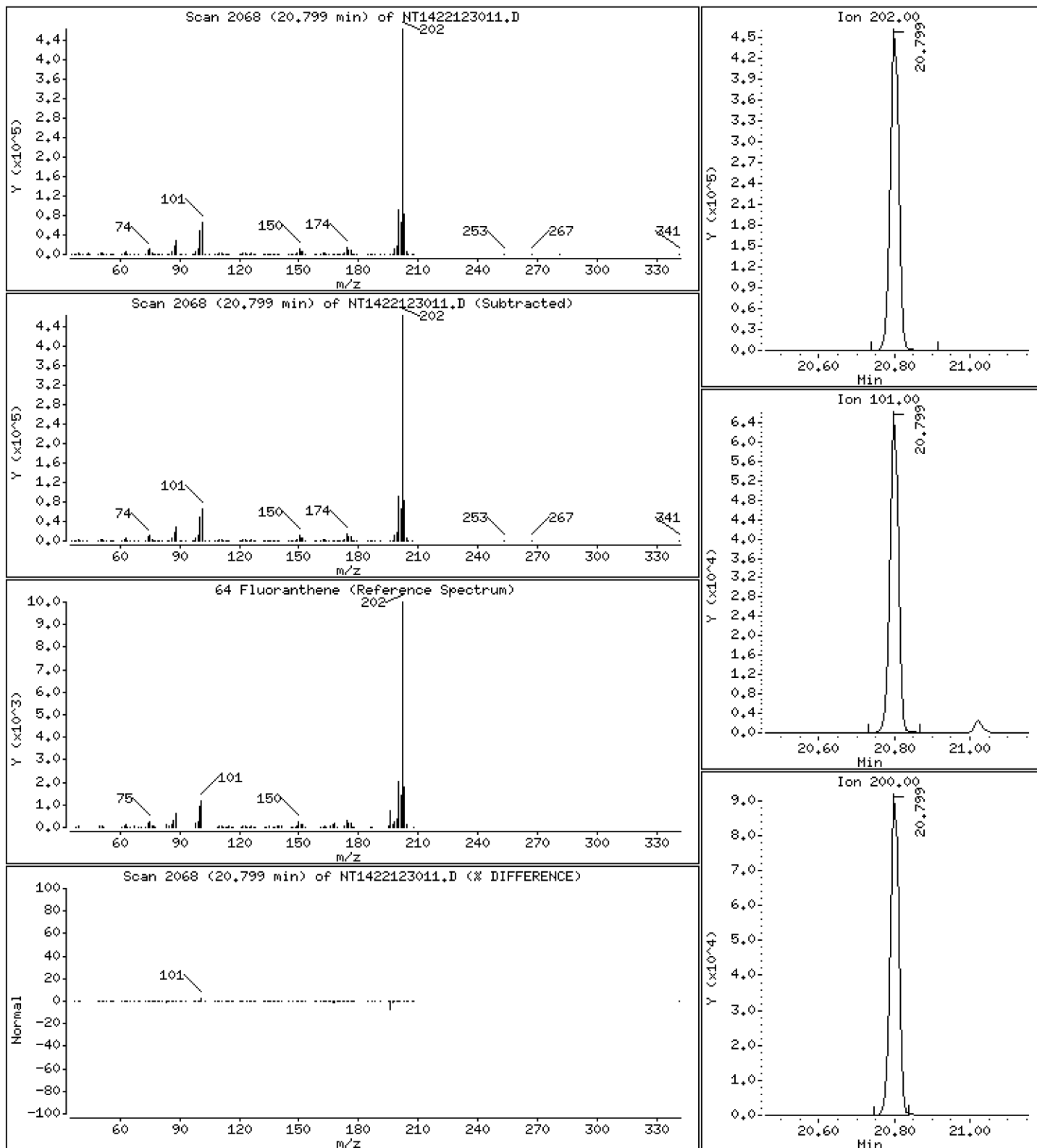
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,090 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

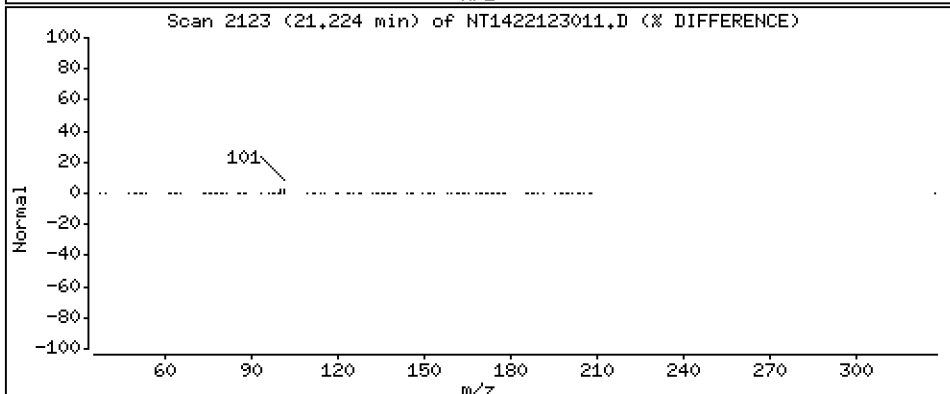
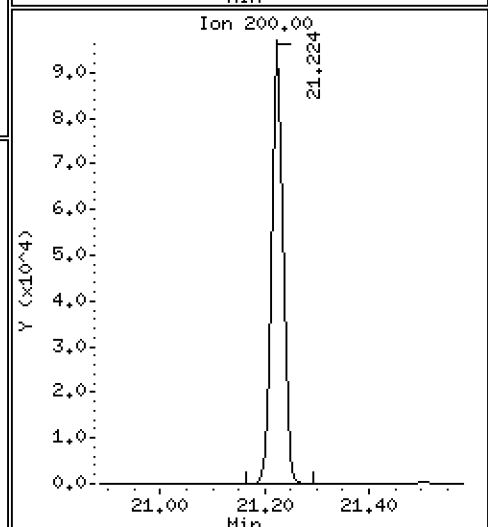
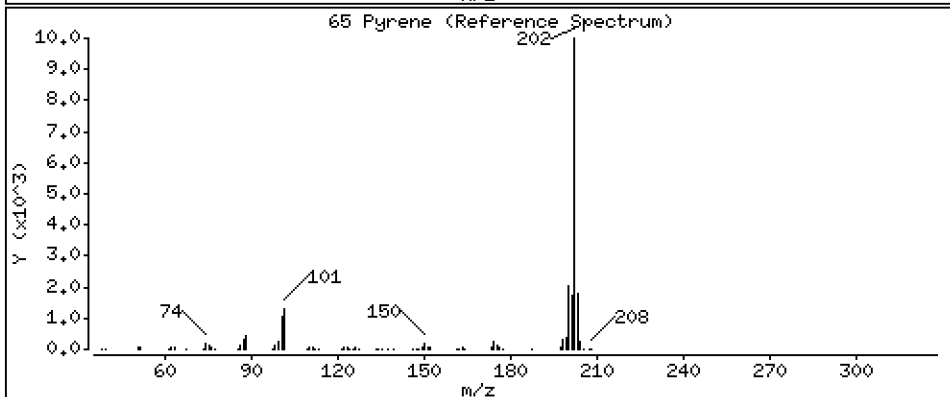
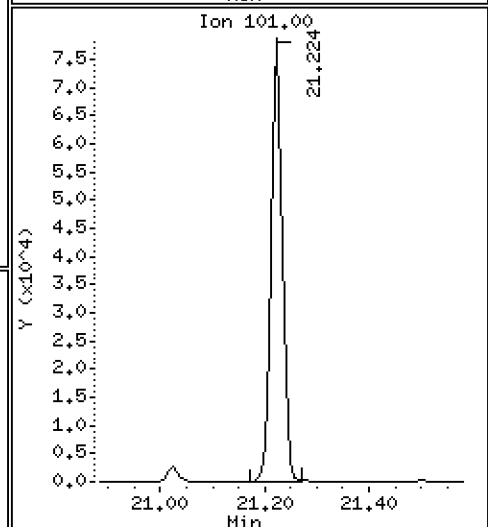
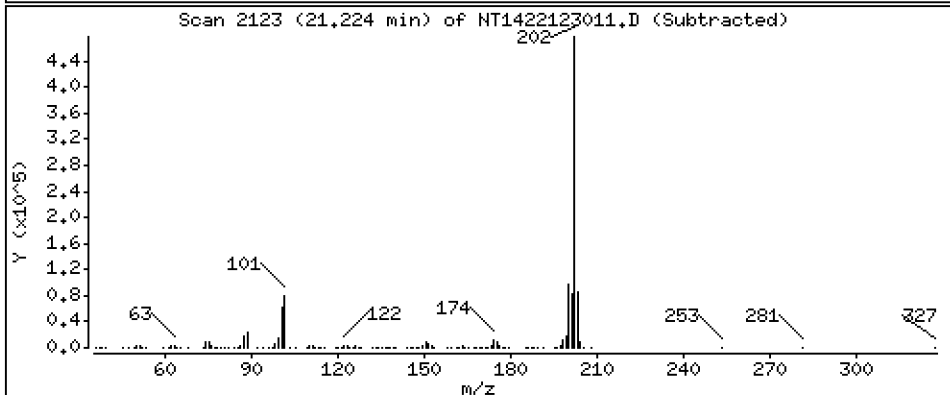
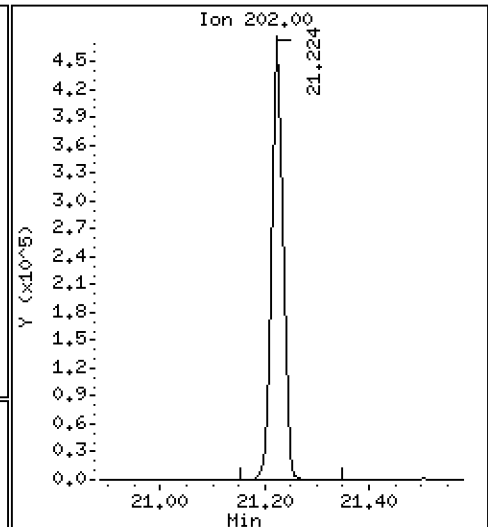
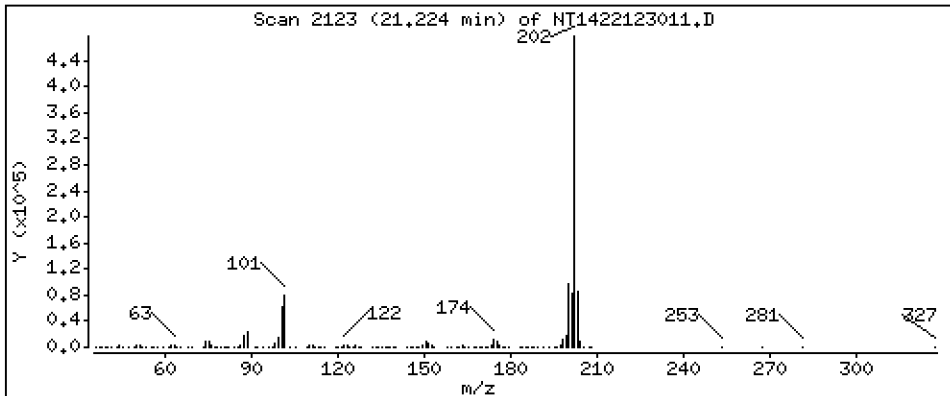
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,022 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

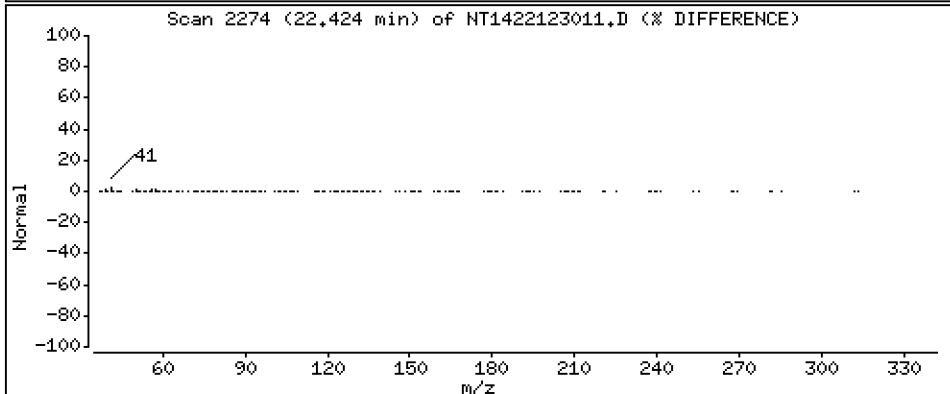
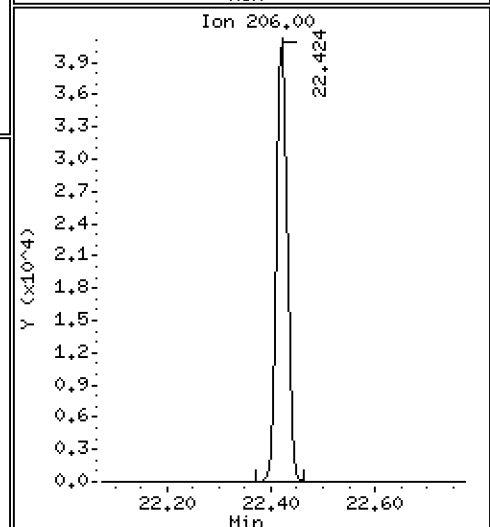
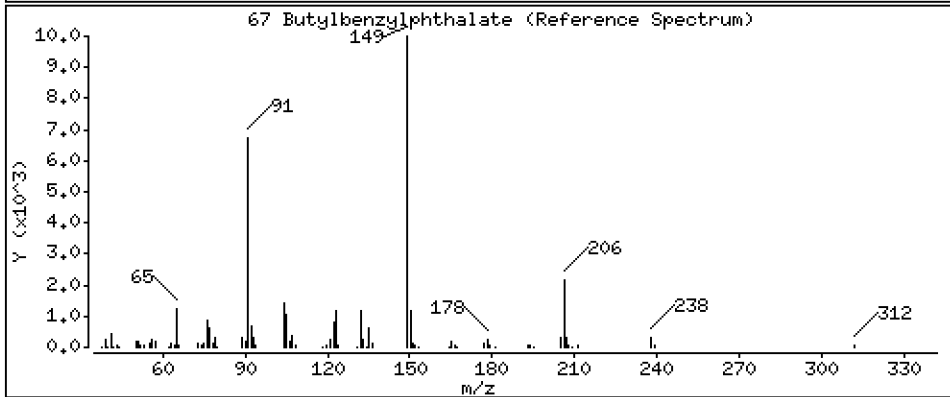
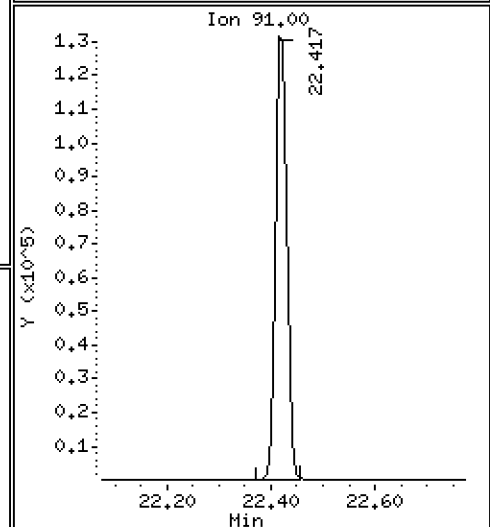
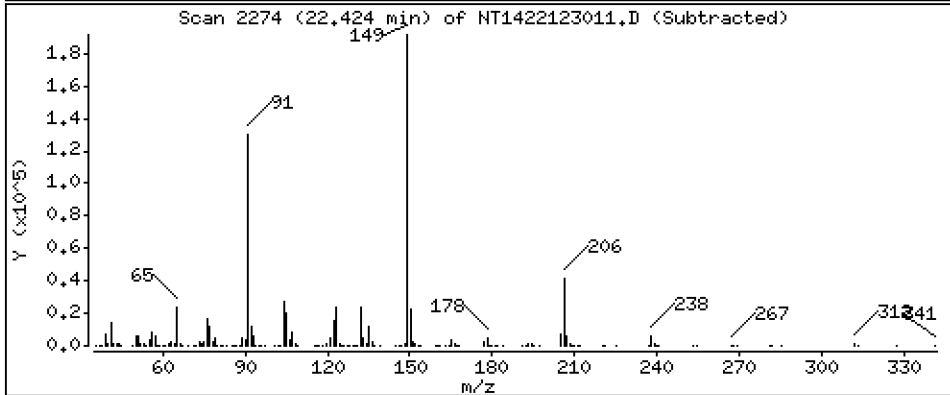
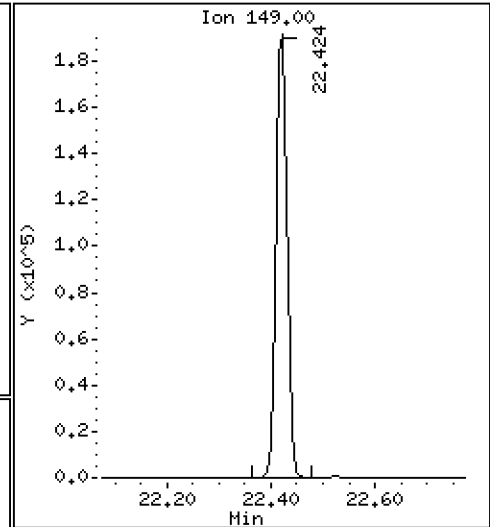
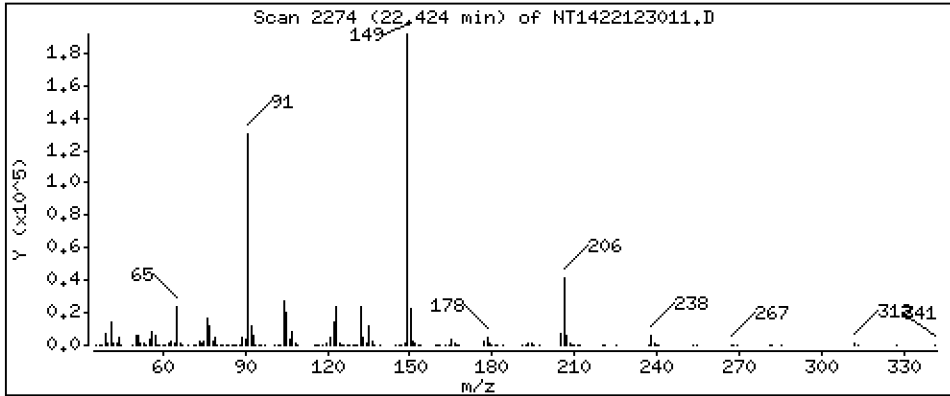
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,005 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

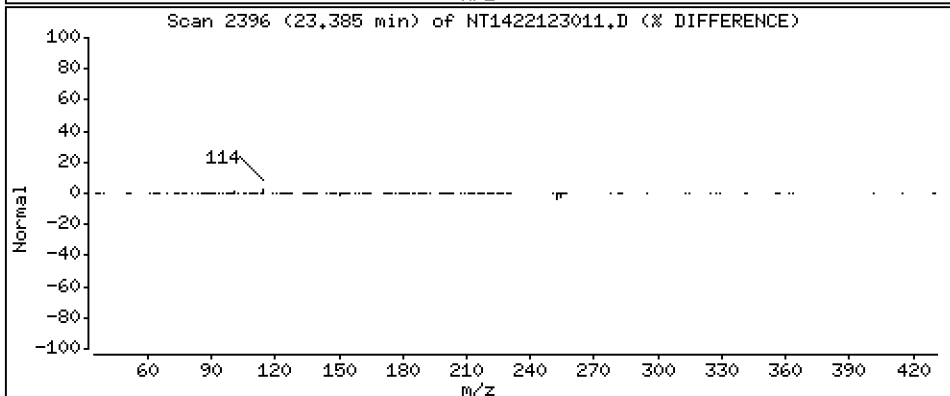
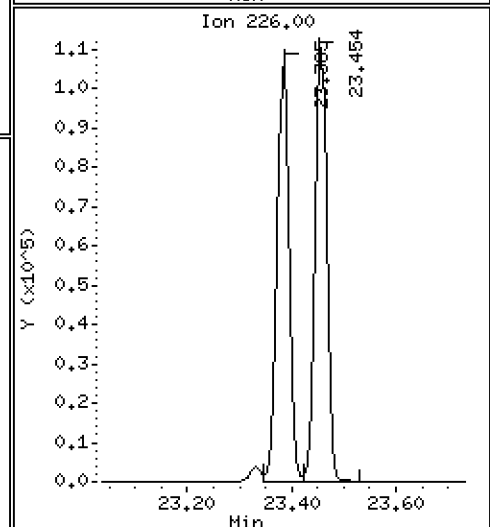
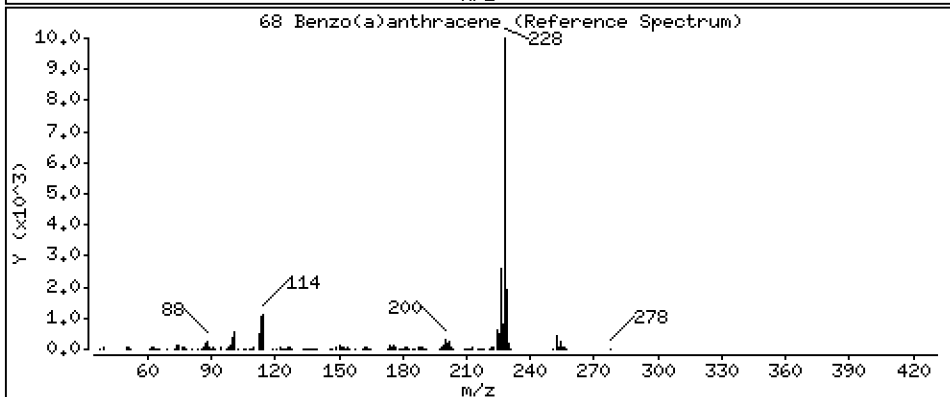
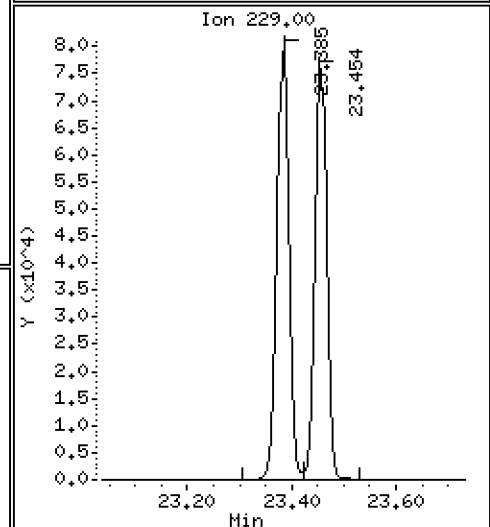
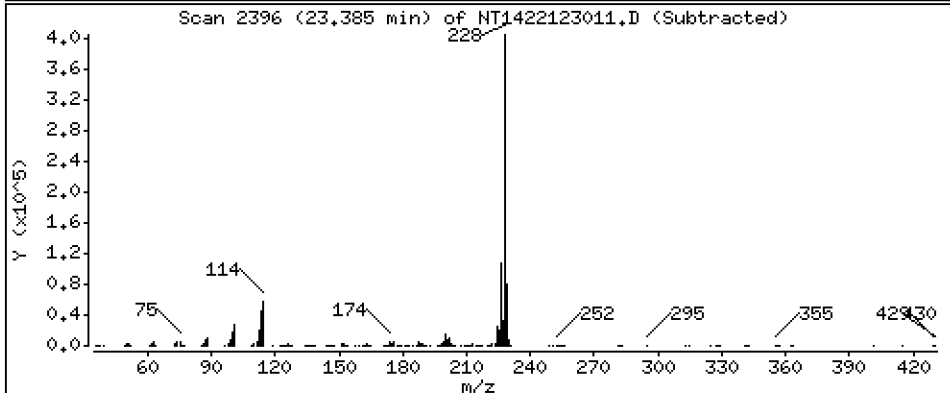
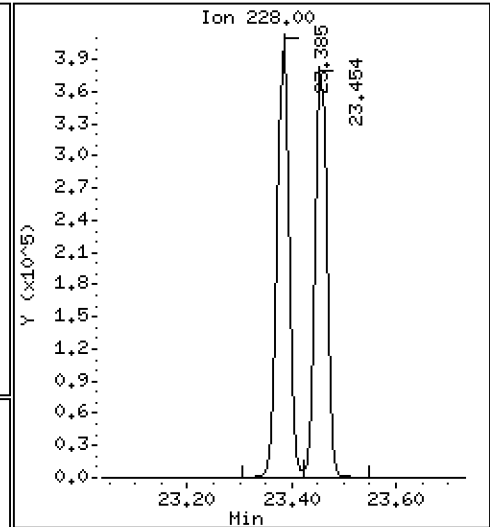
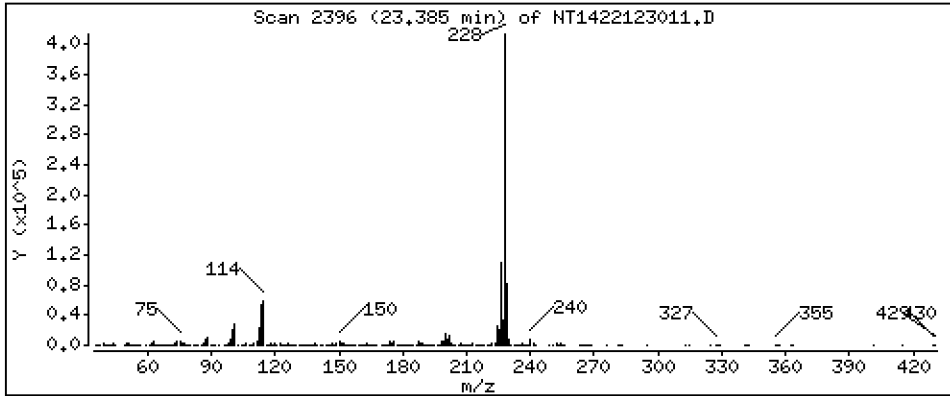
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,890 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

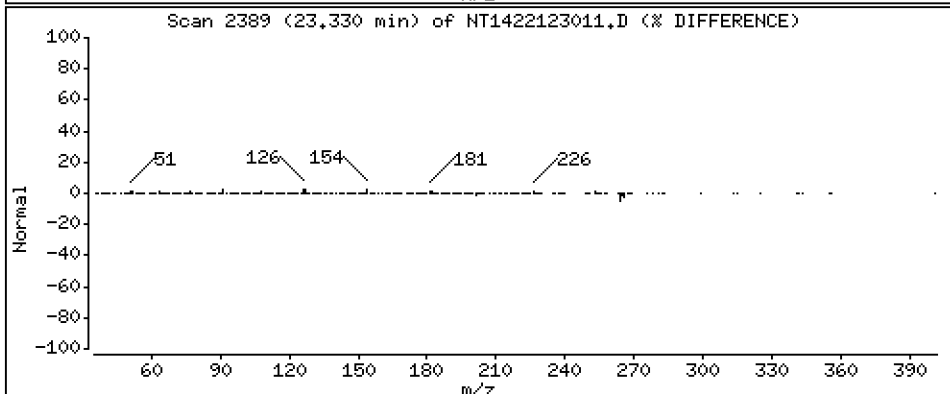
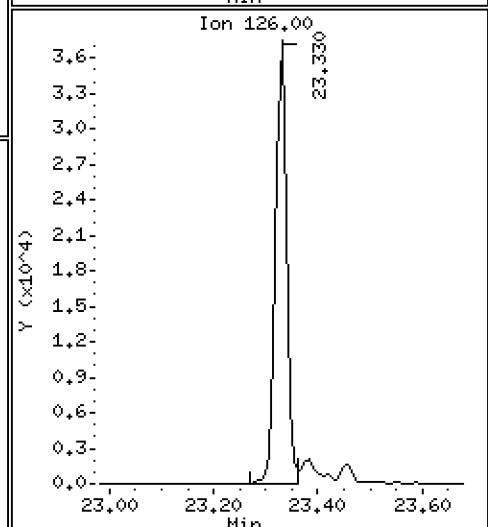
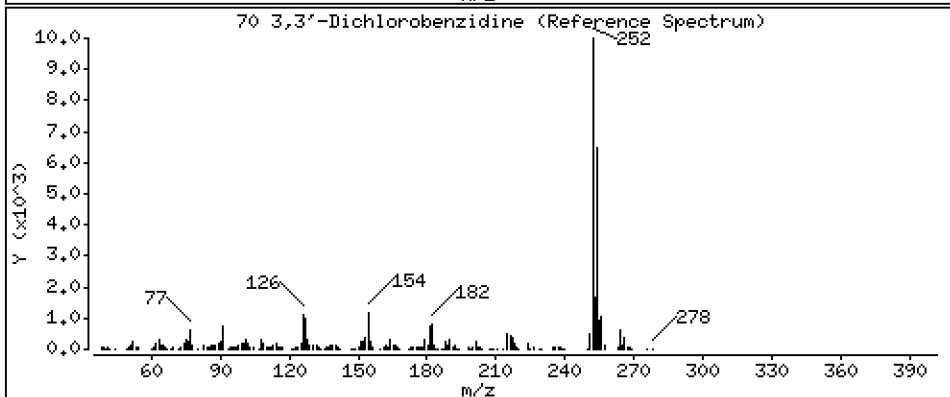
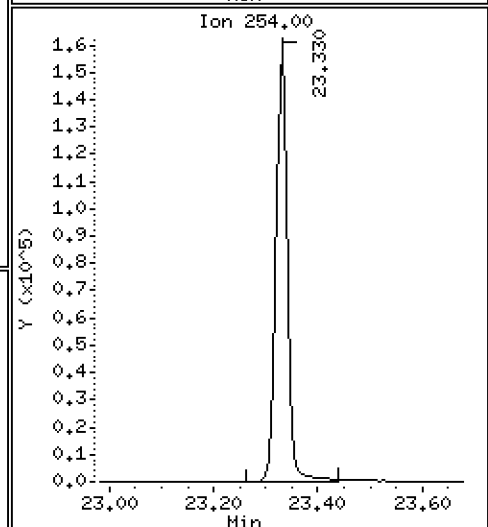
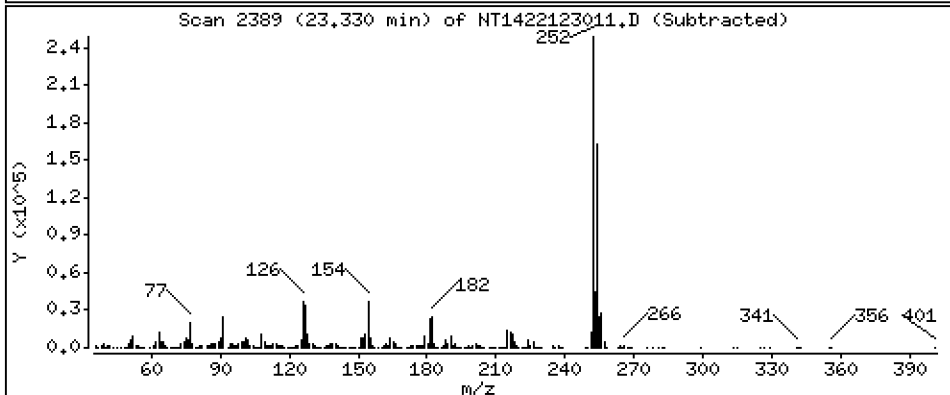
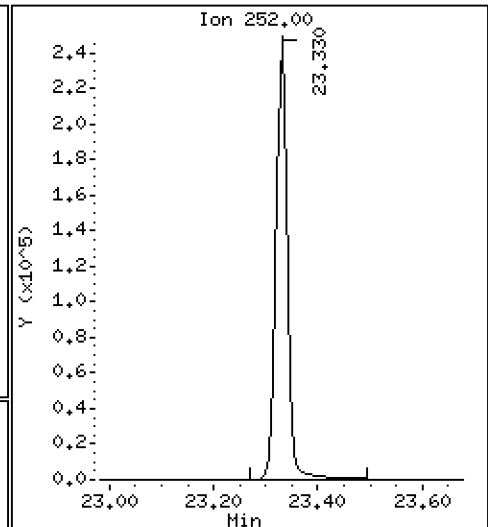
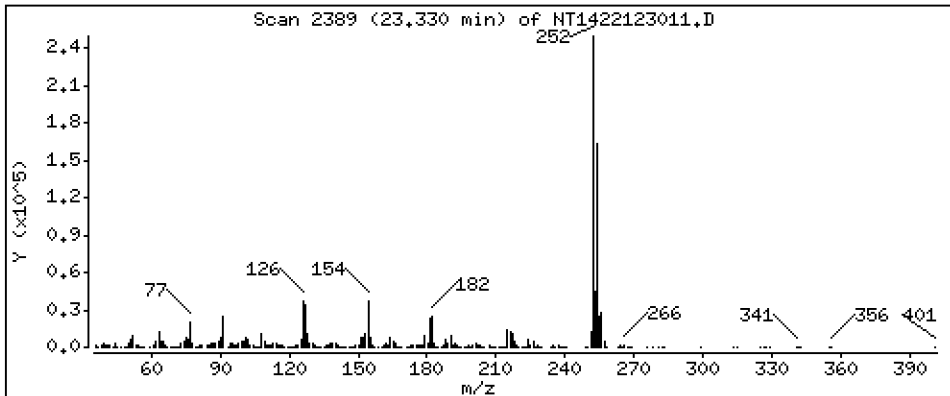
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,207 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

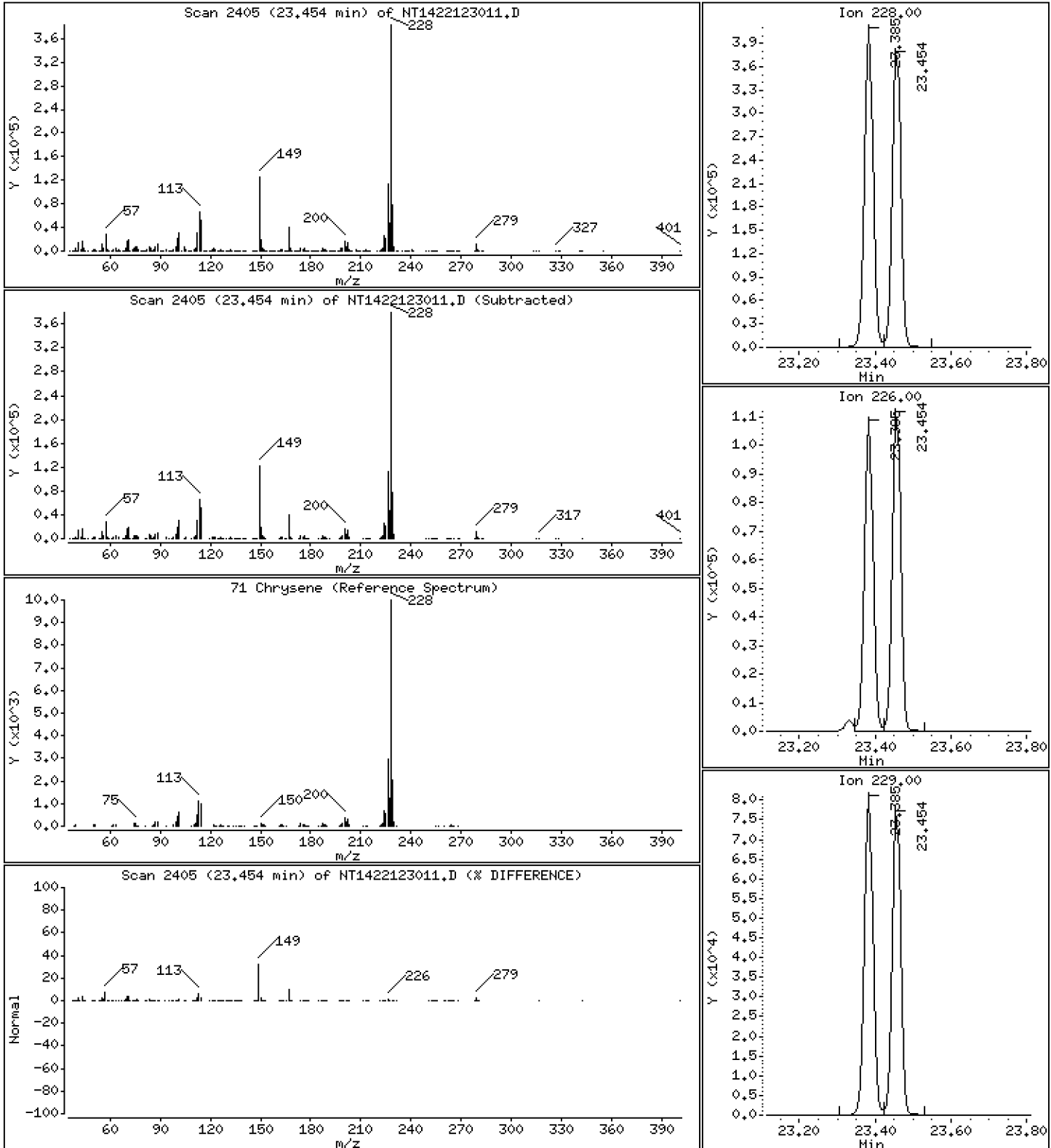
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,763 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

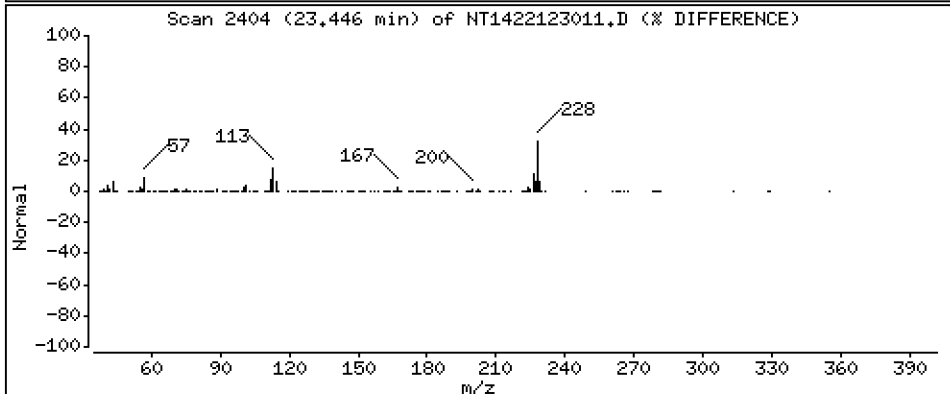
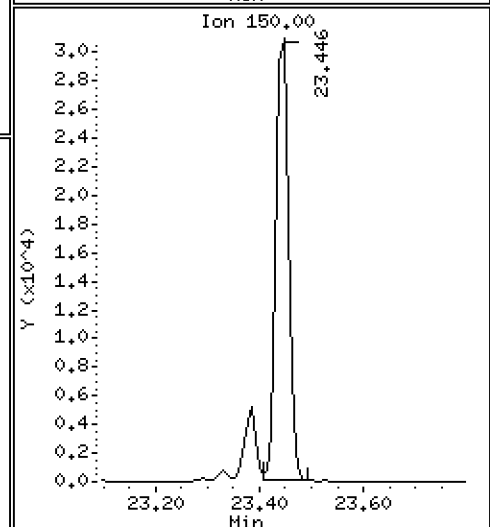
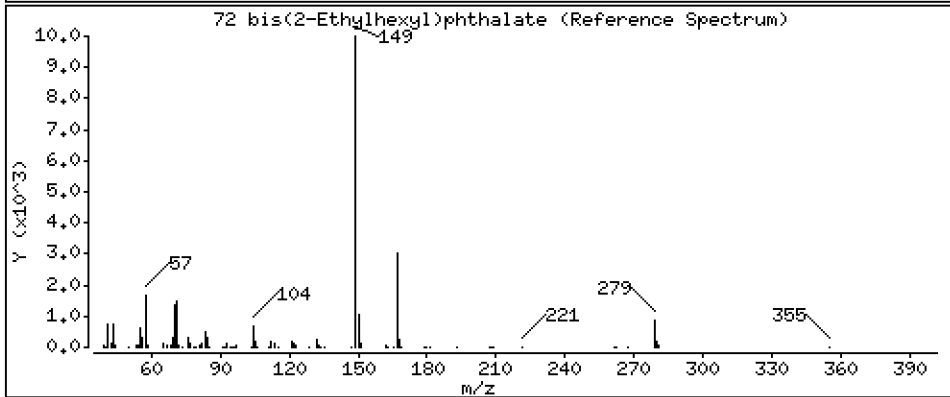
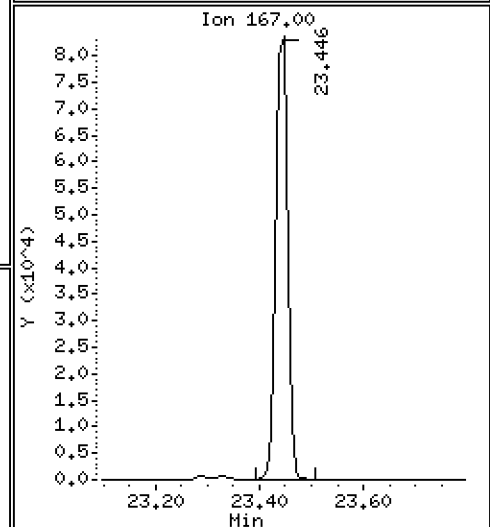
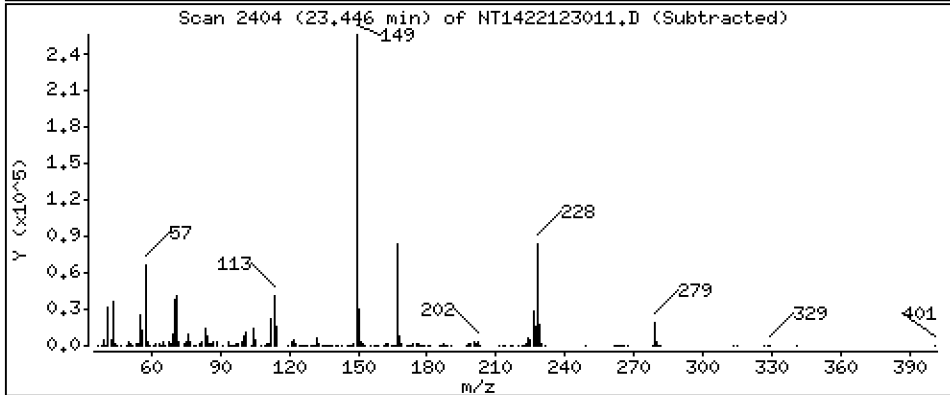
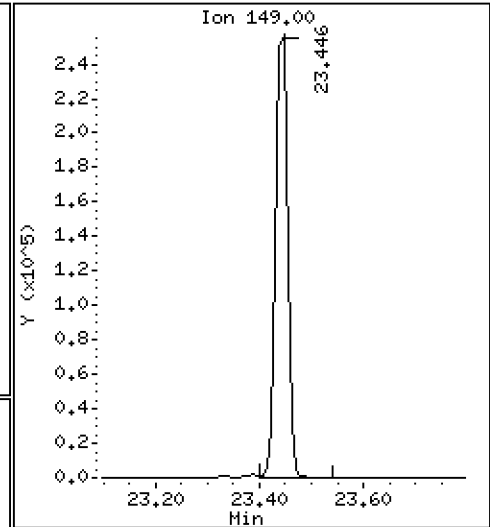
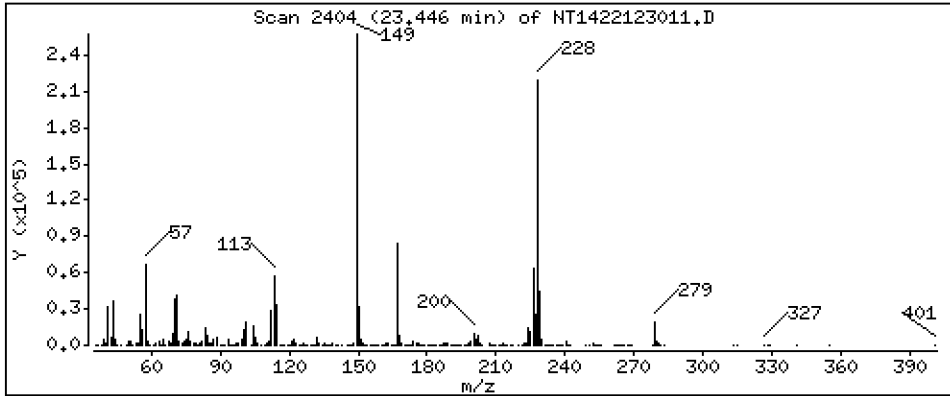
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,899 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

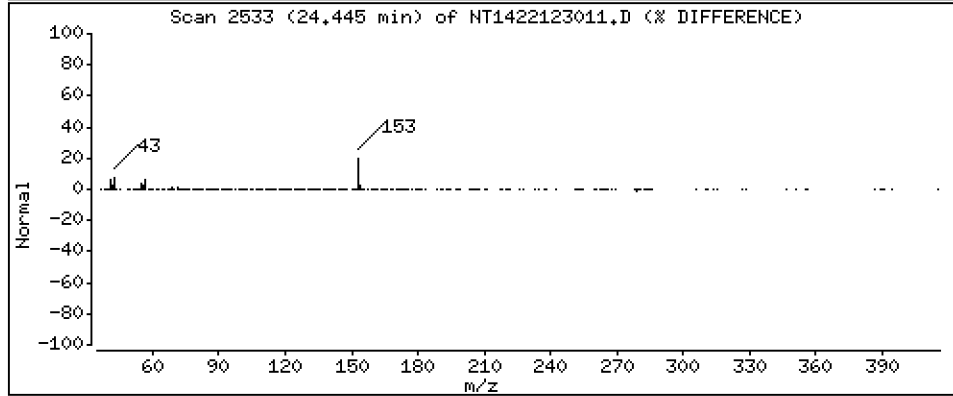
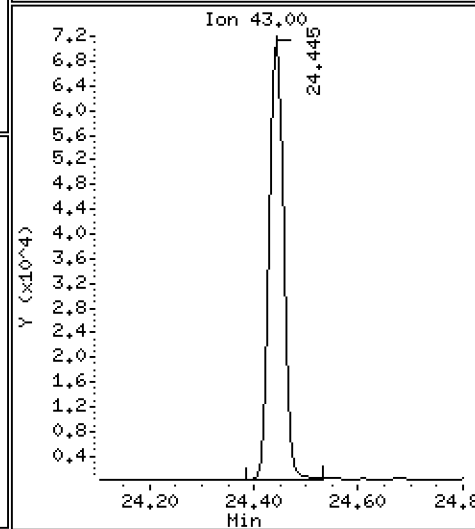
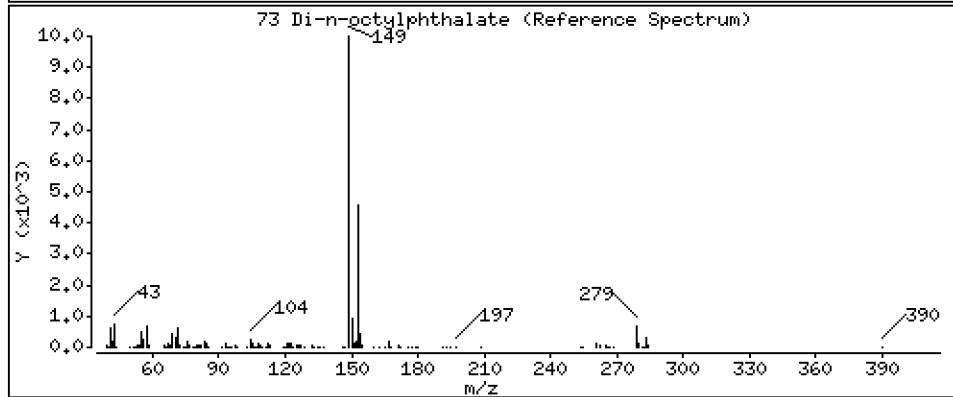
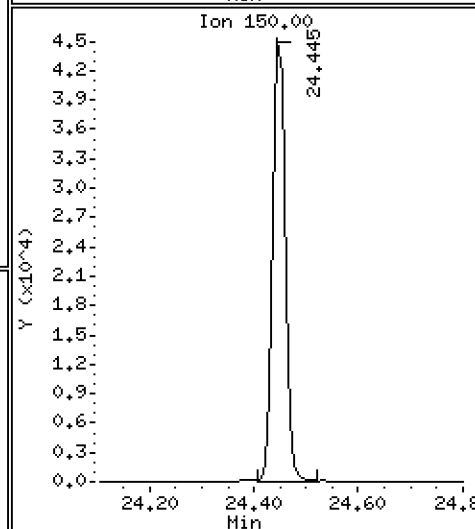
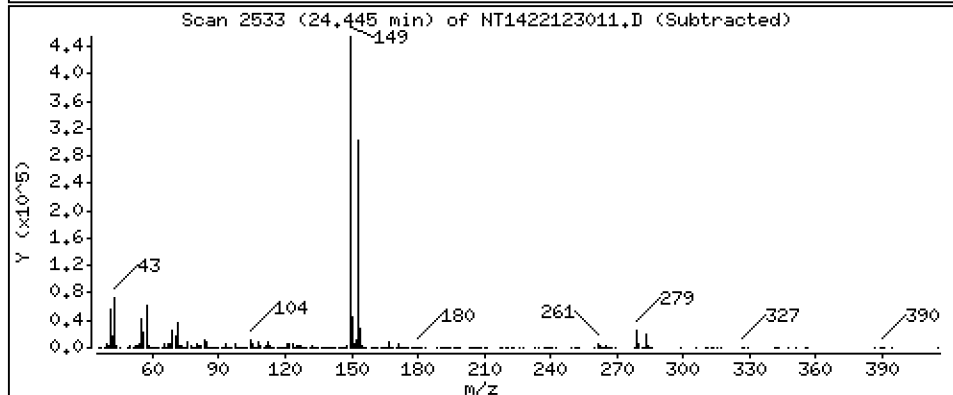
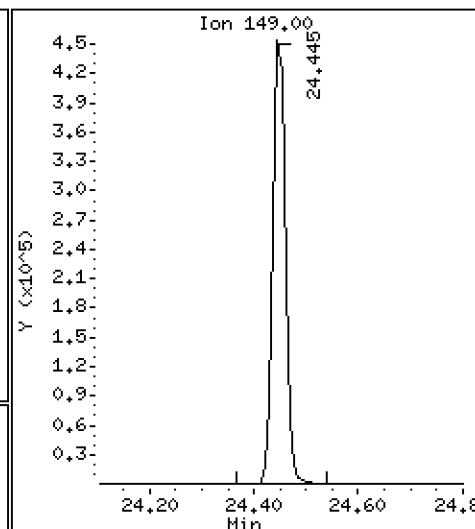
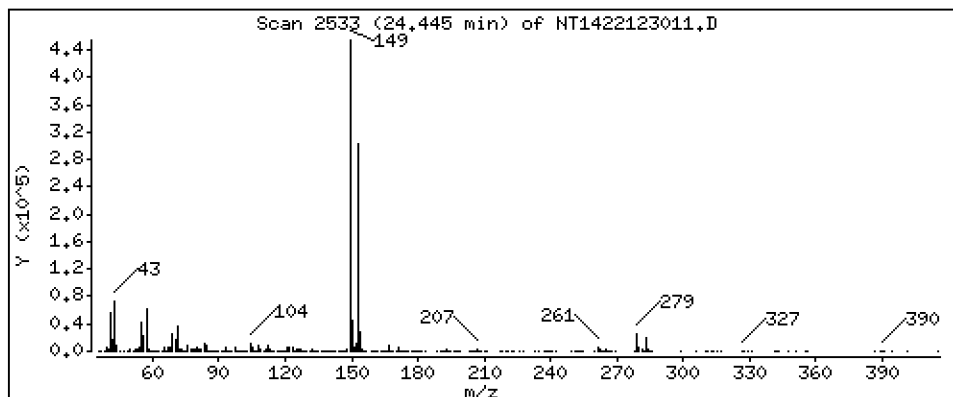
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,083 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

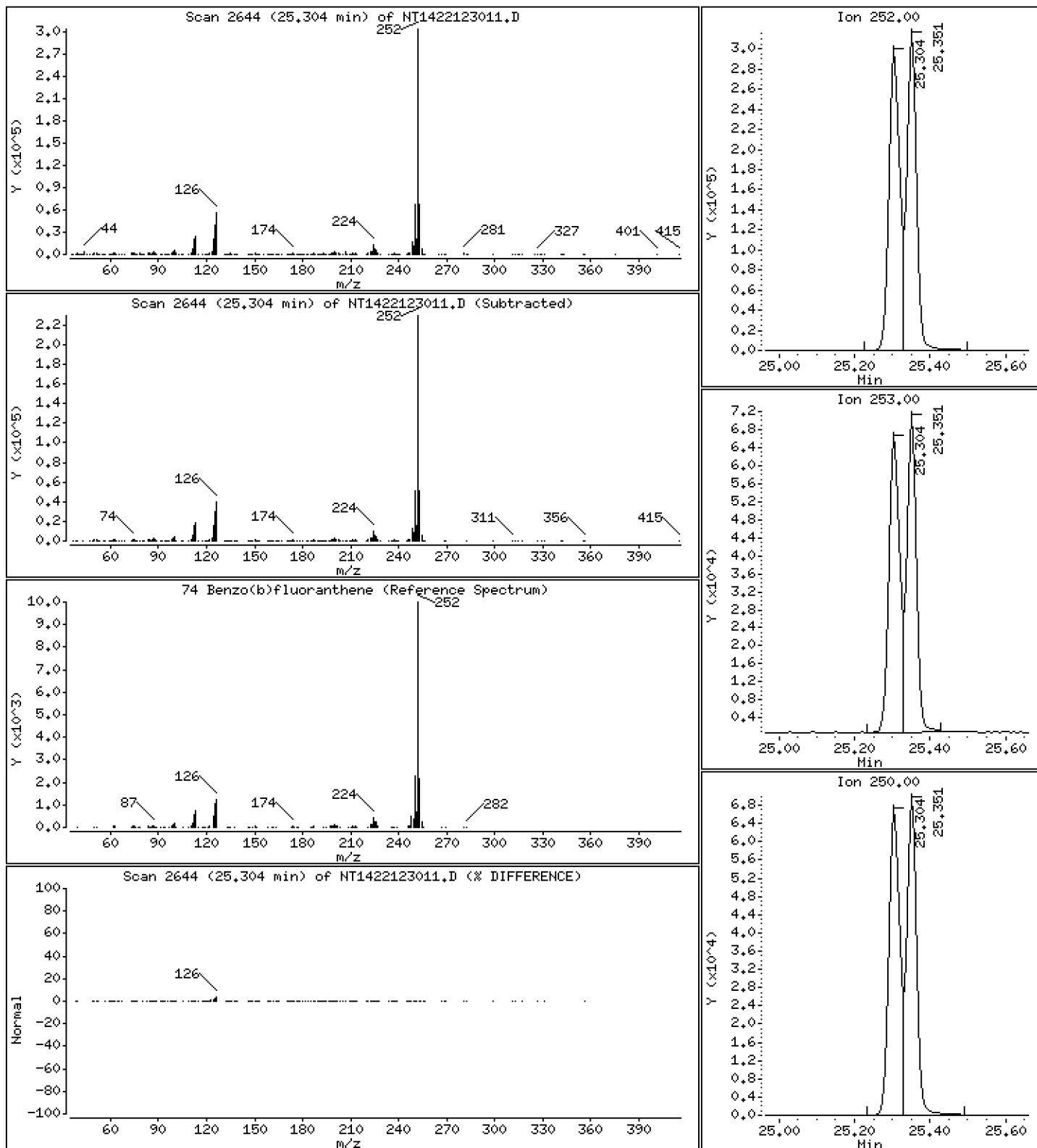
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,893 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

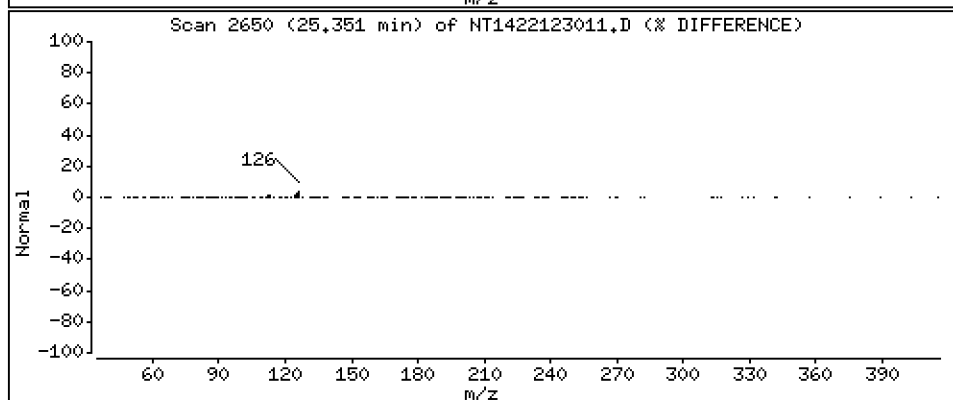
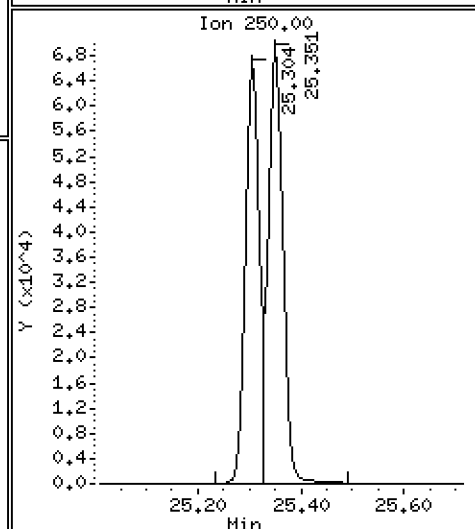
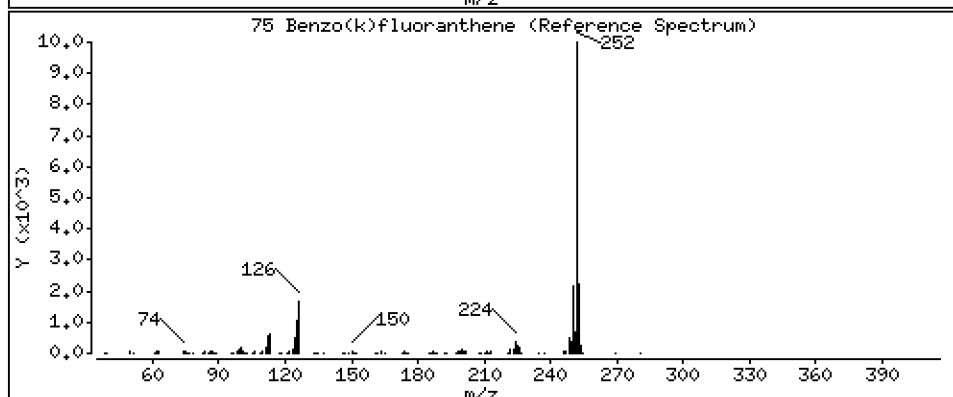
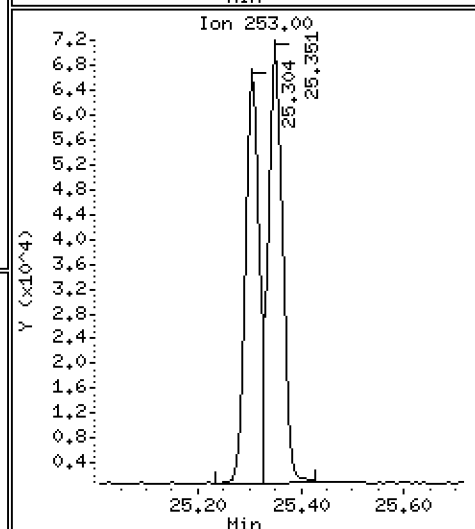
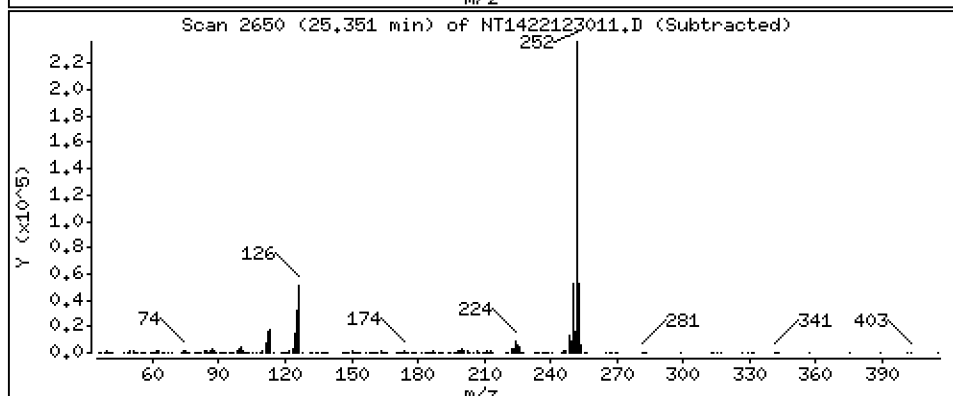
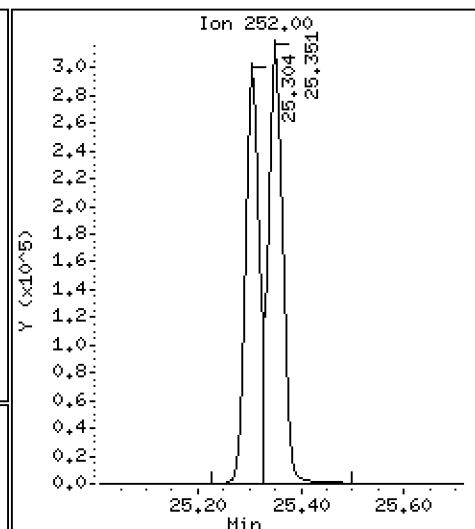
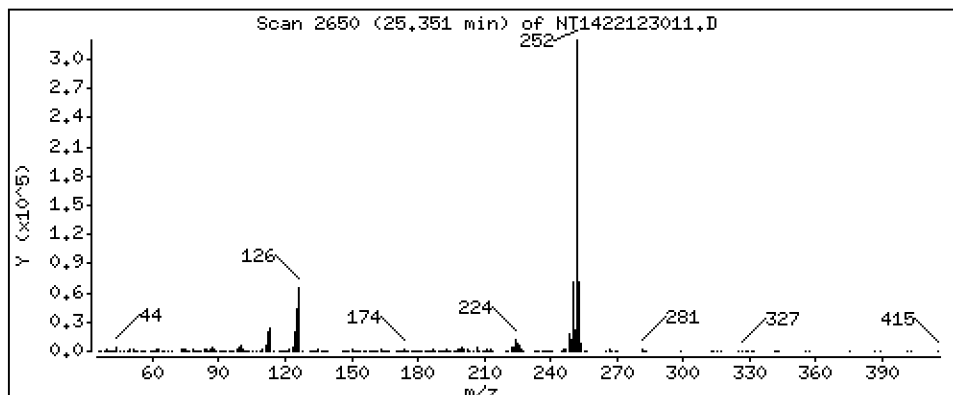
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,093 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

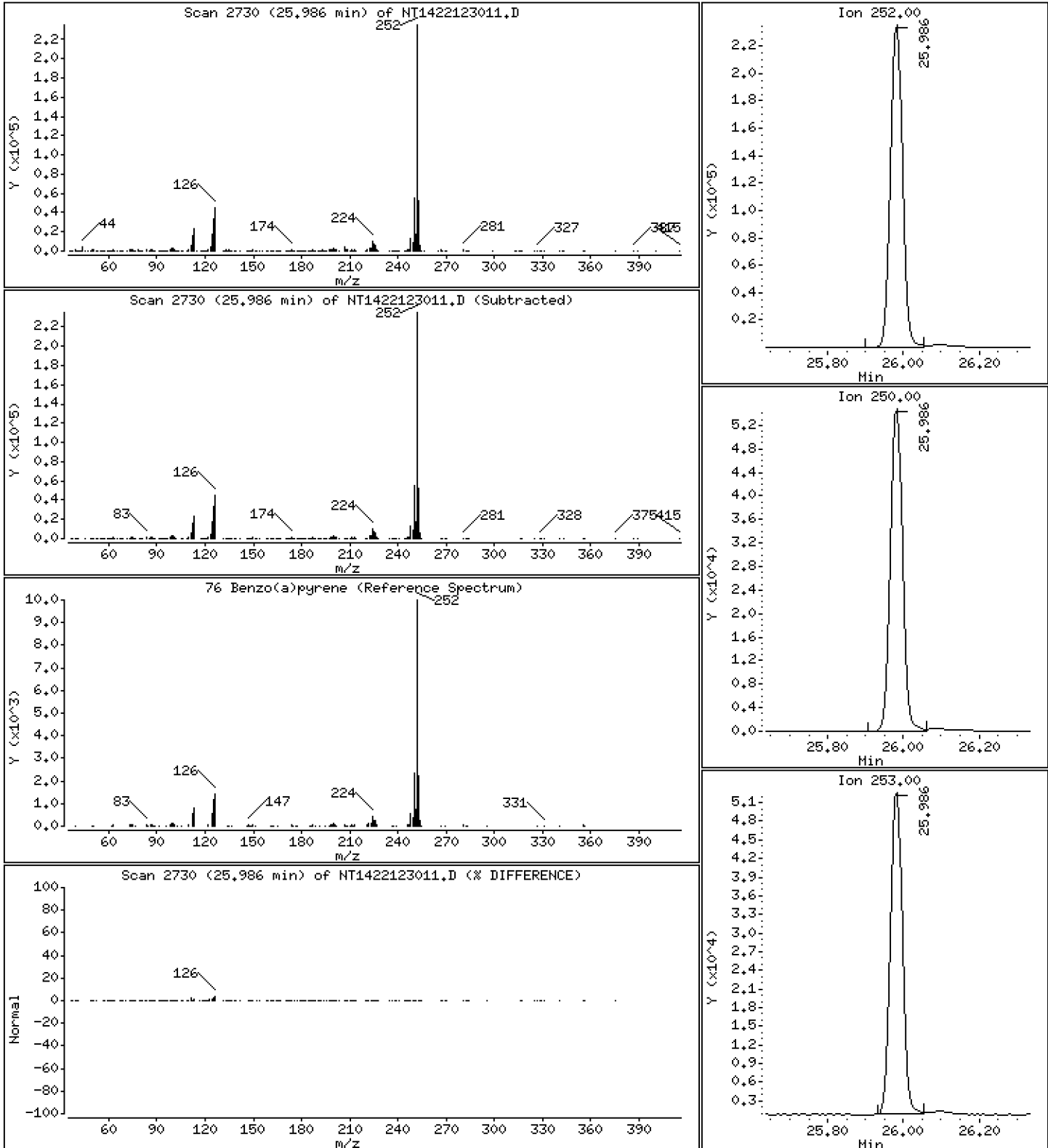
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,092 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

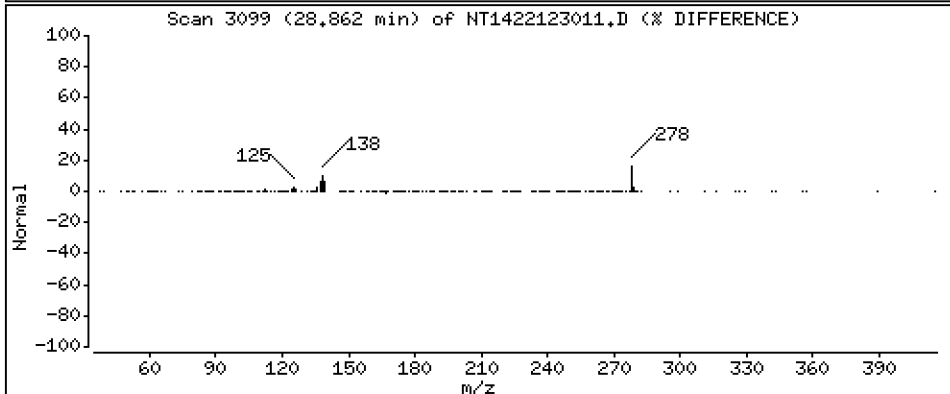
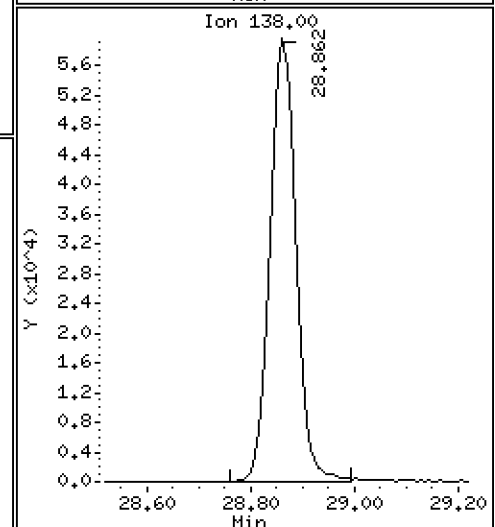
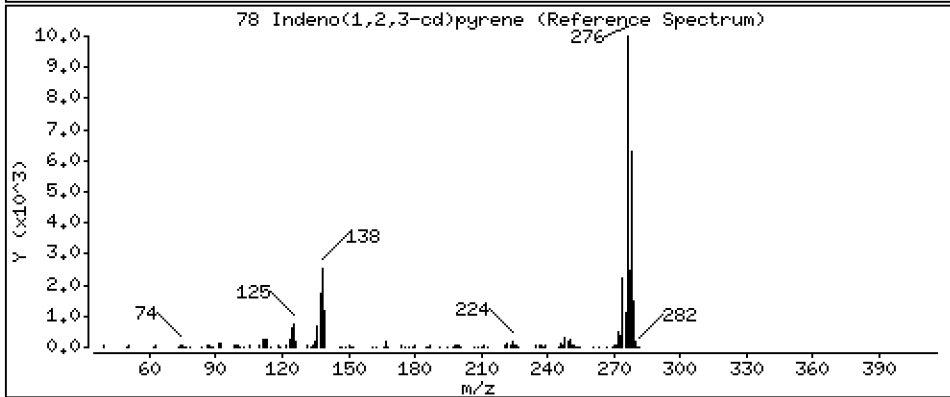
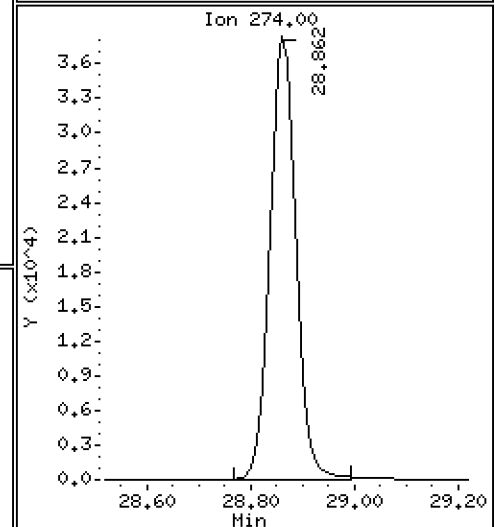
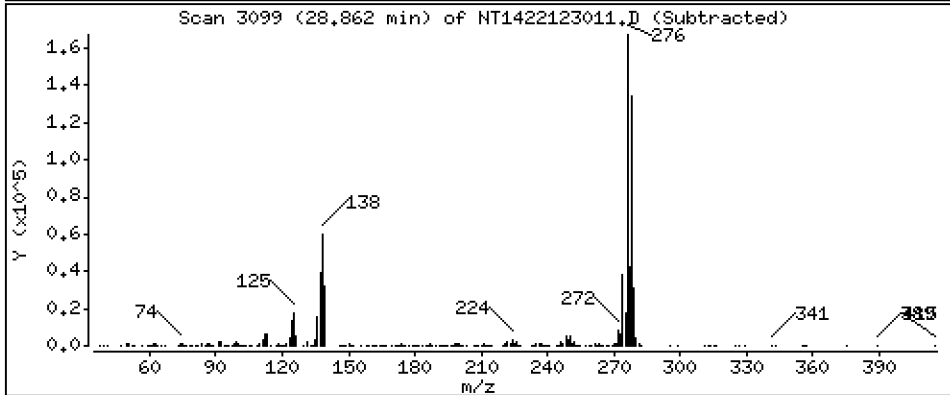
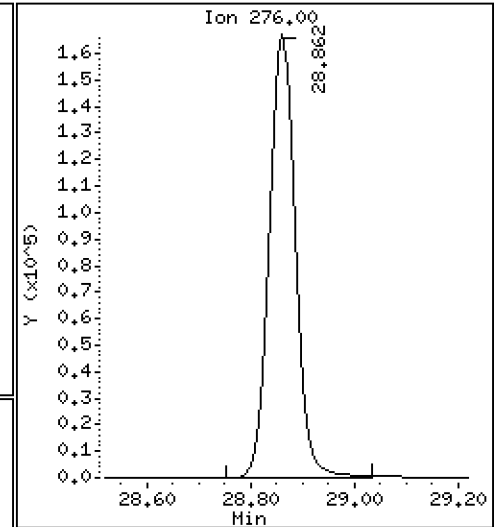
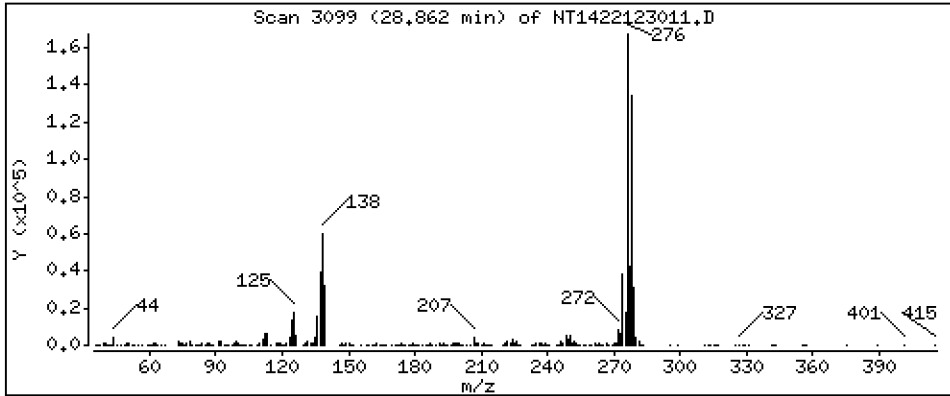
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,128 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

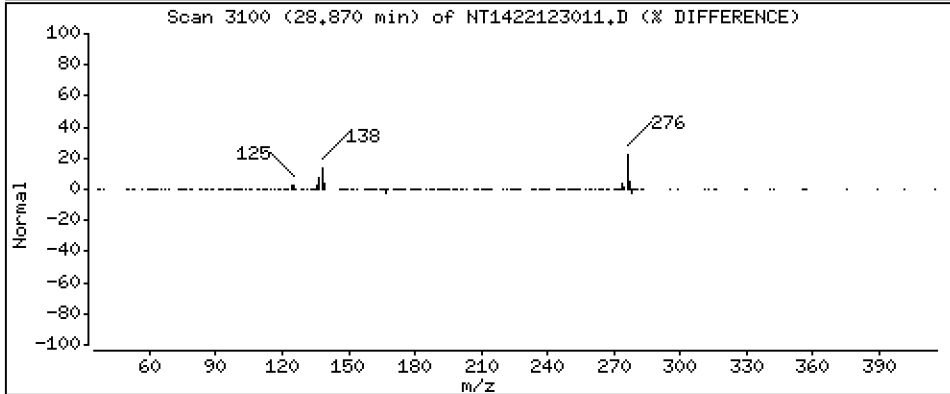
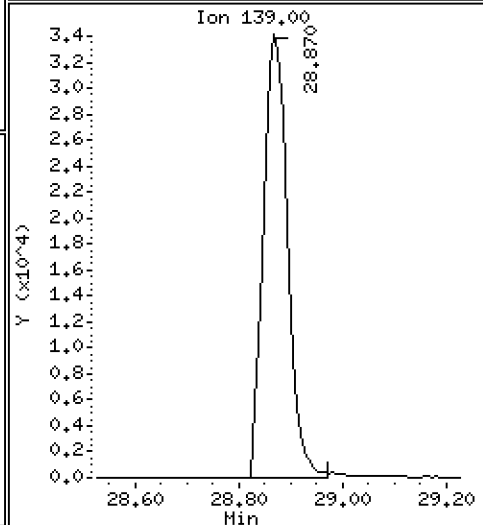
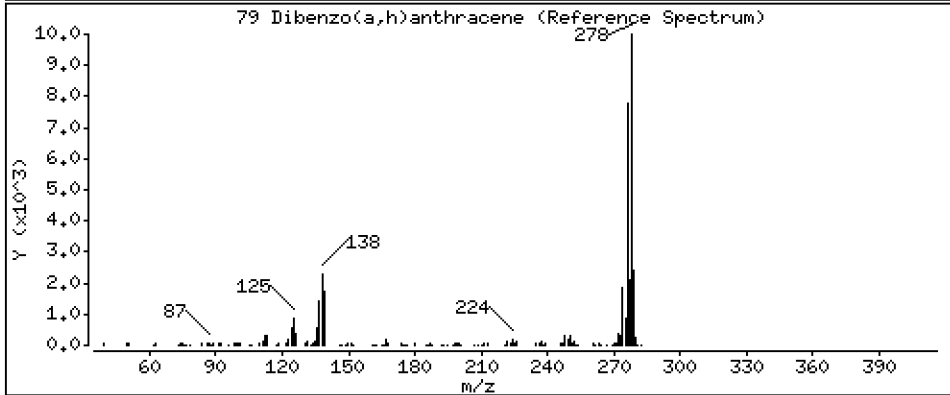
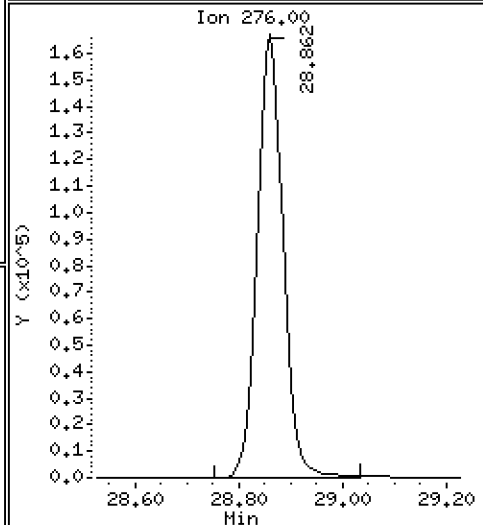
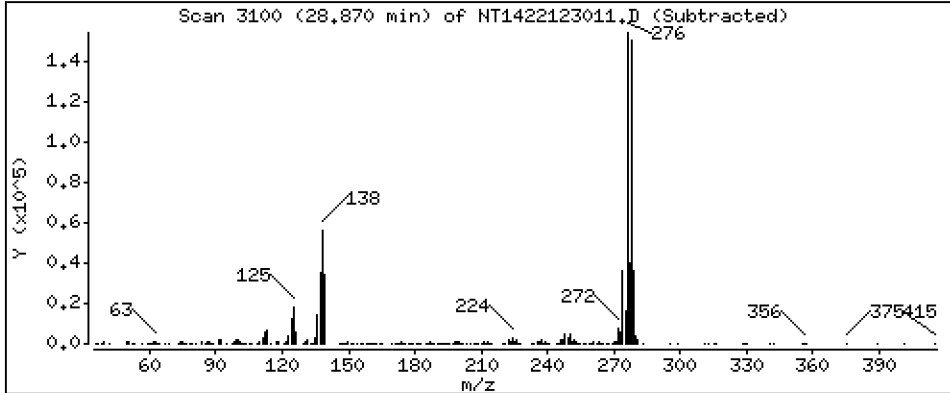
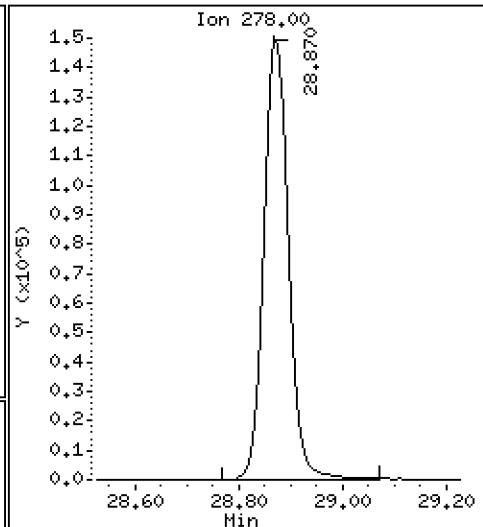
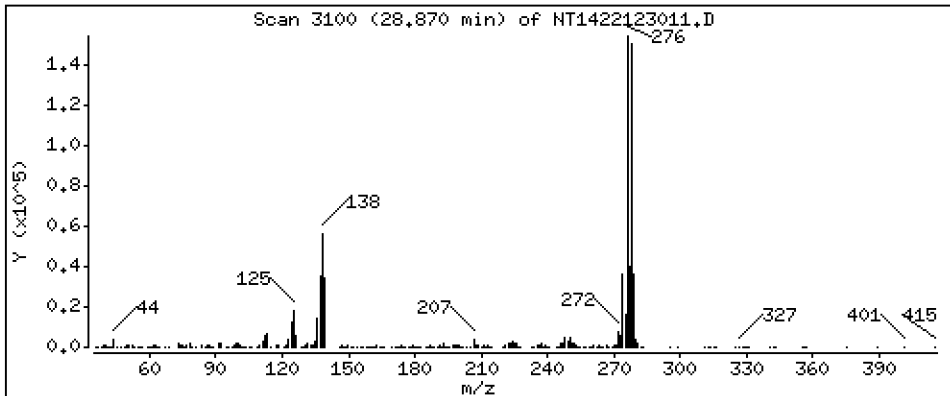
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 5,087 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

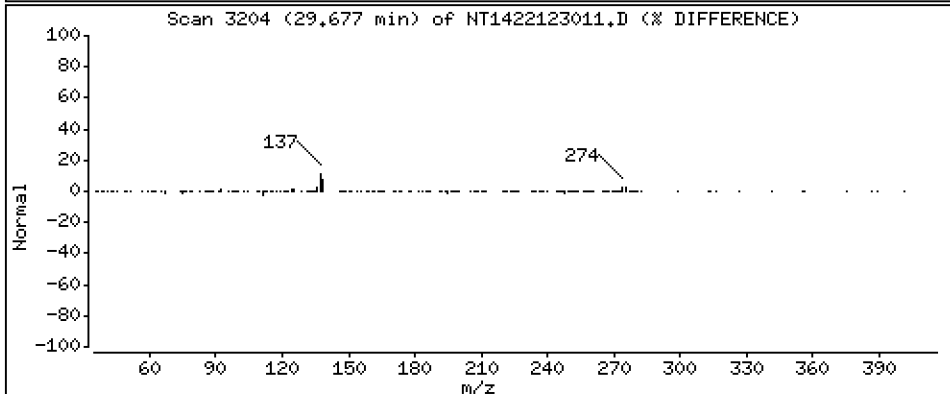
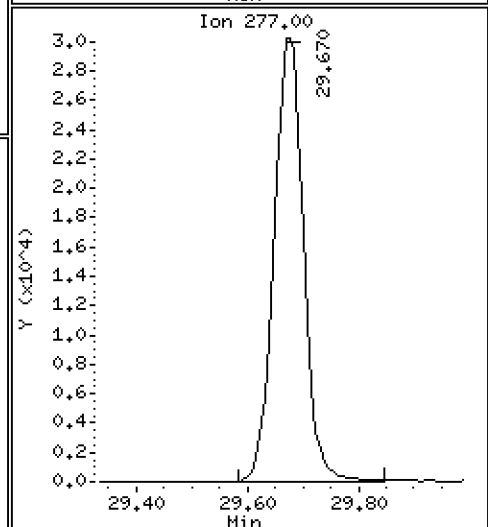
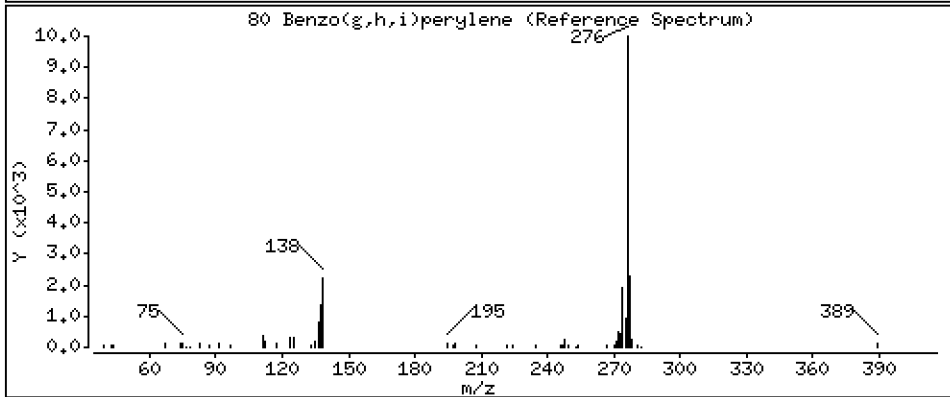
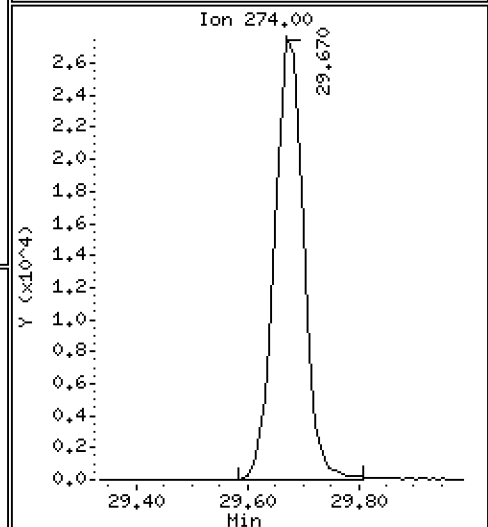
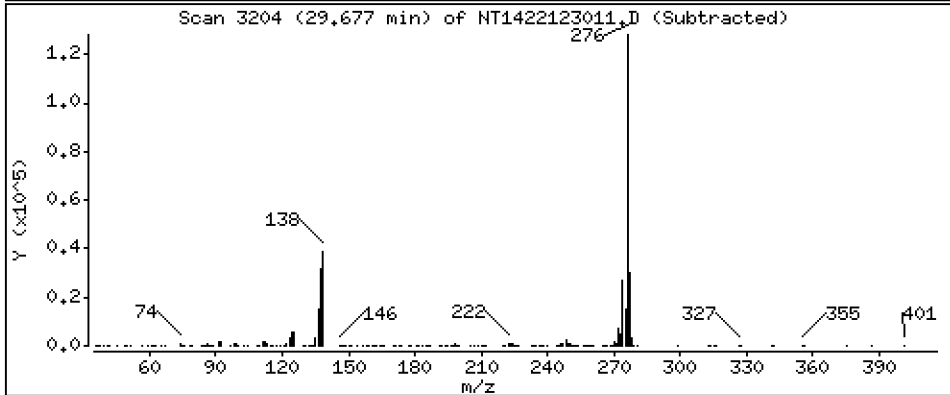
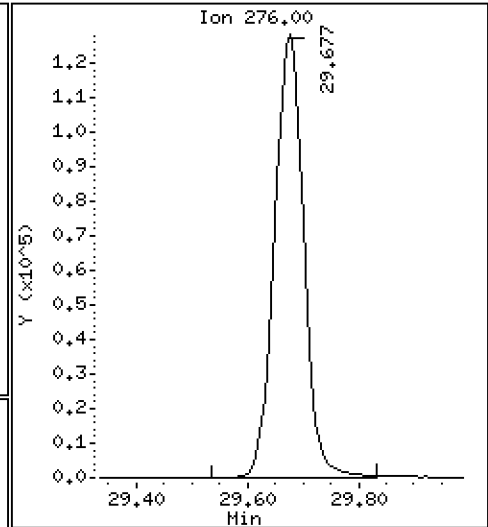
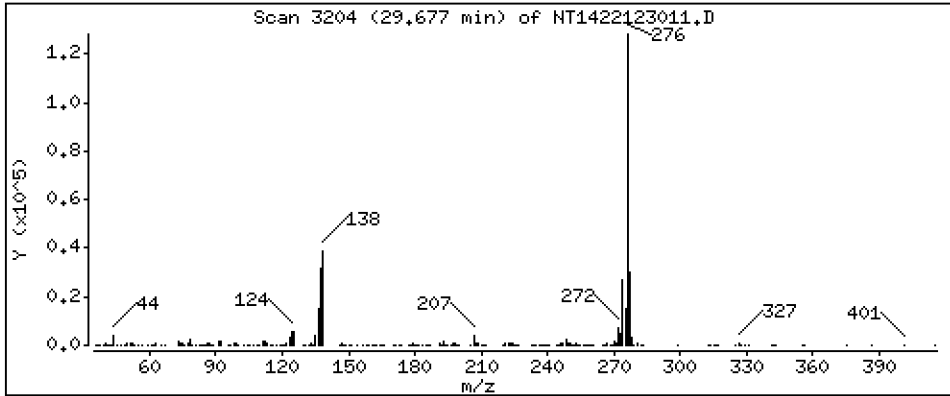
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 5,037 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

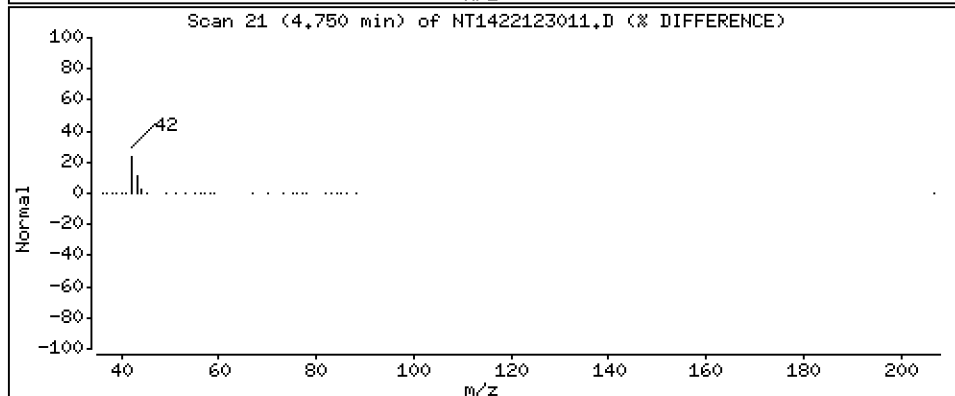
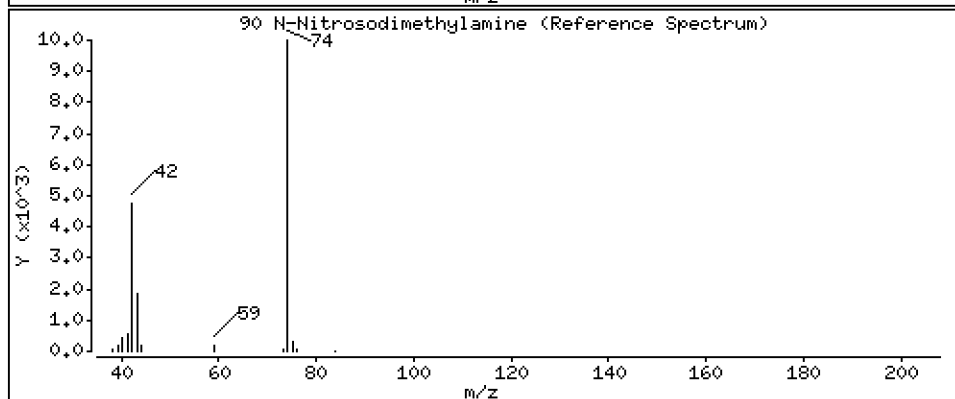
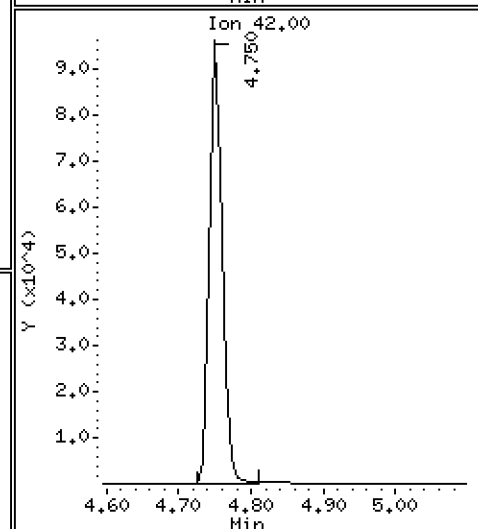
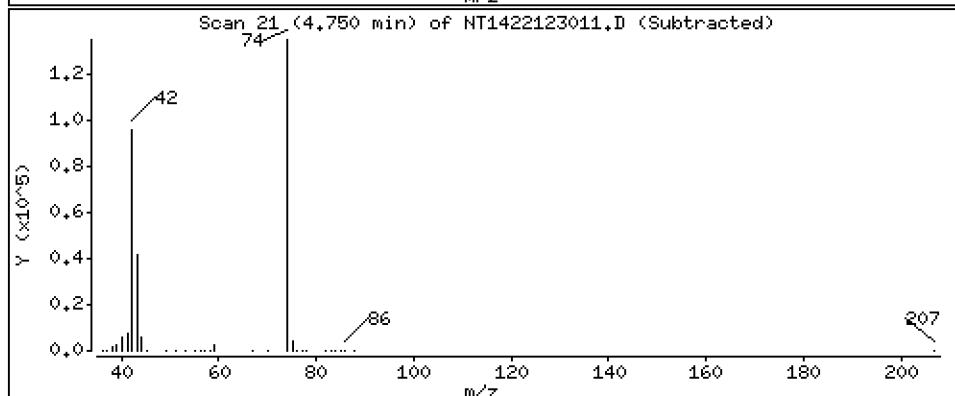
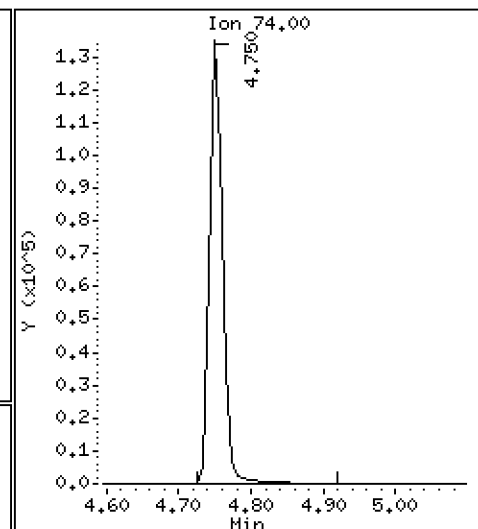
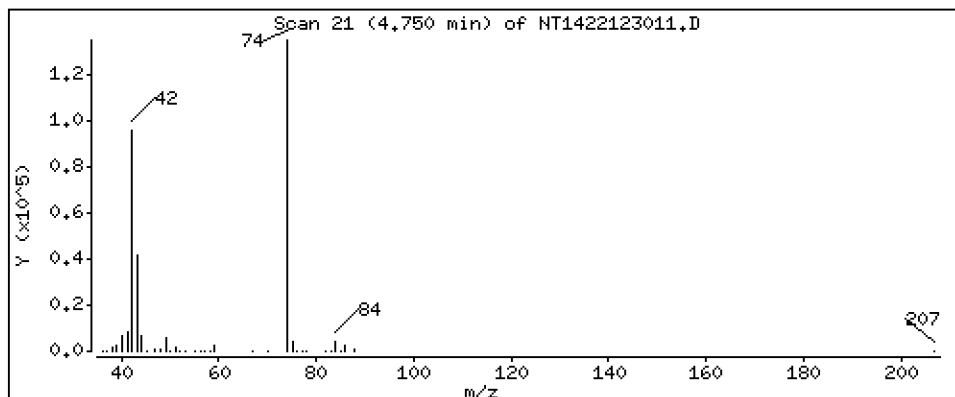
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 5,154 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

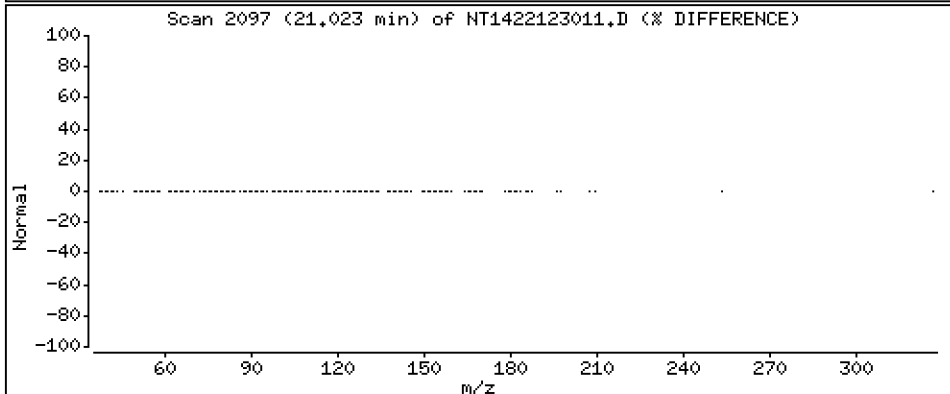
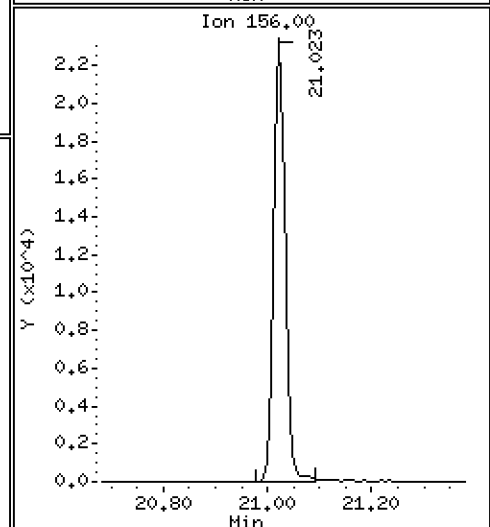
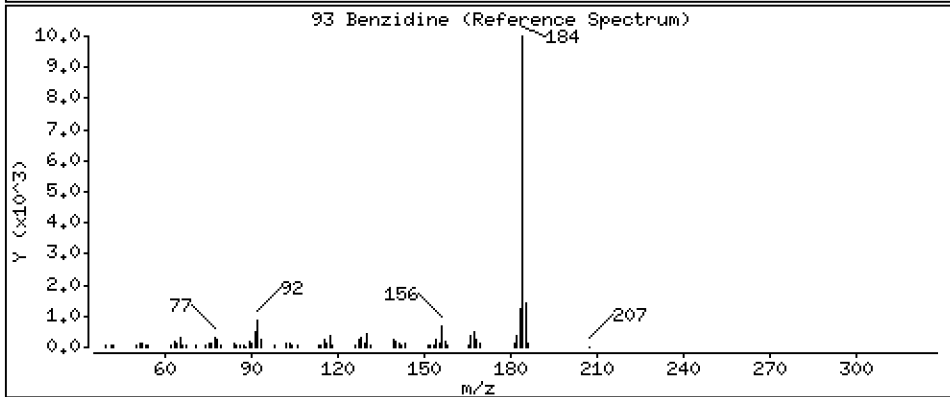
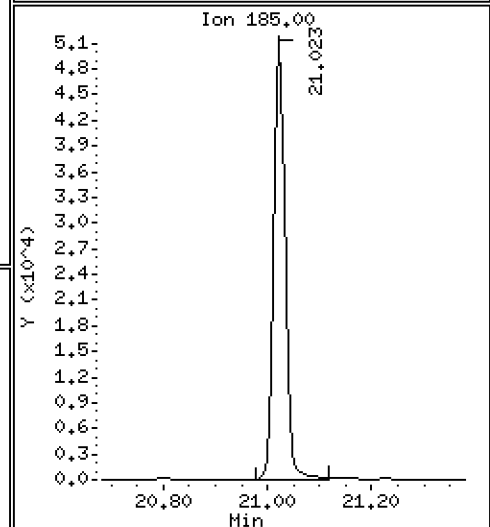
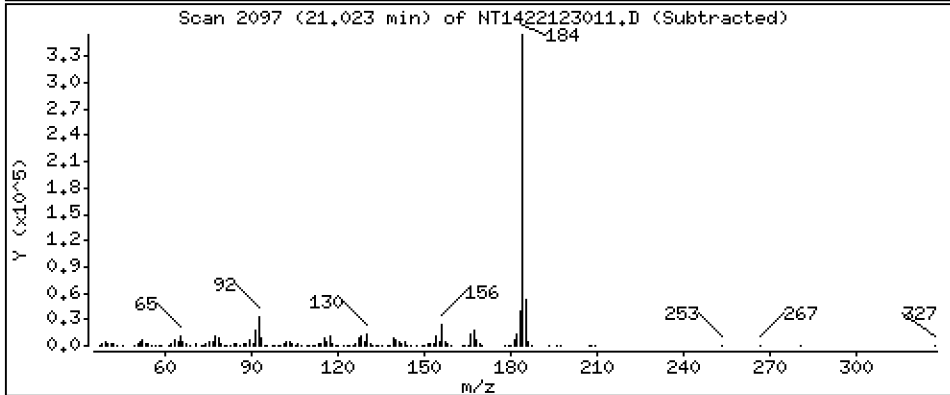
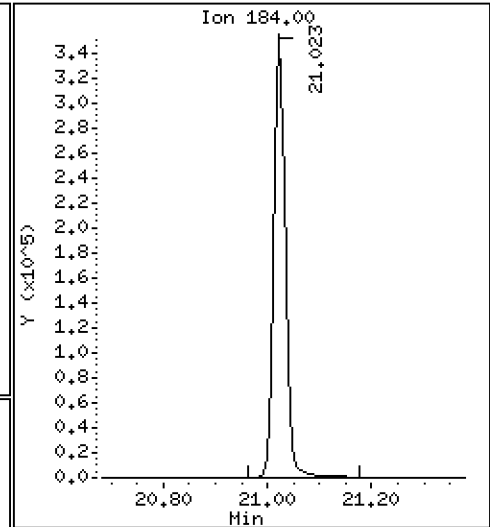
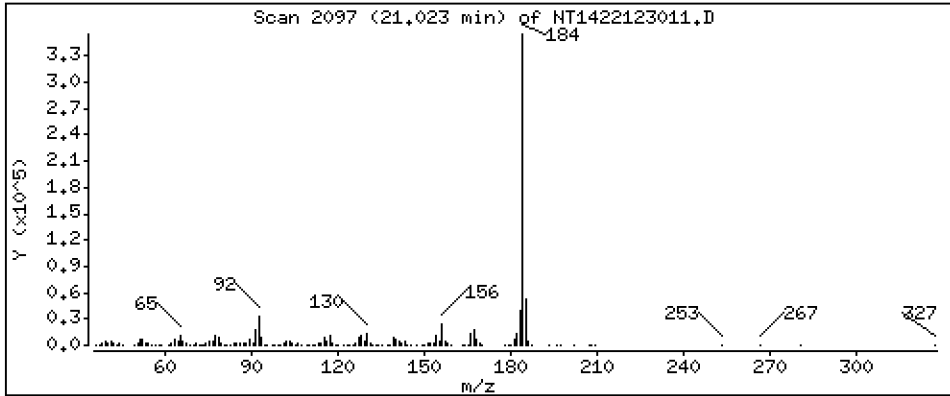
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 9,704 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

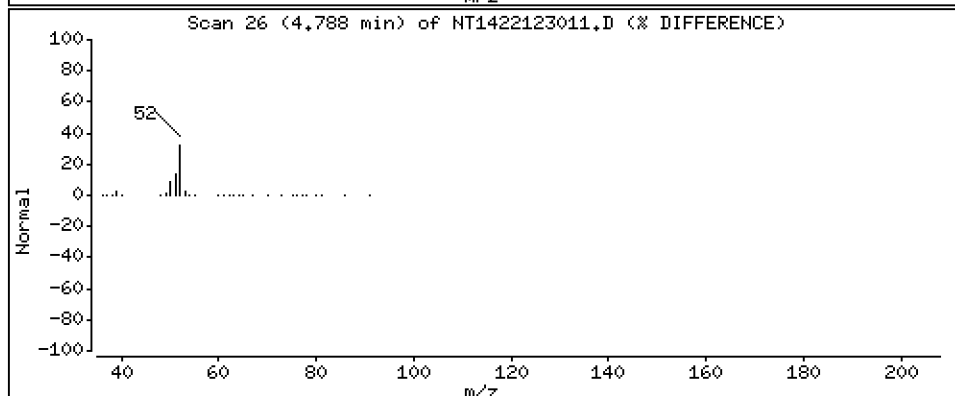
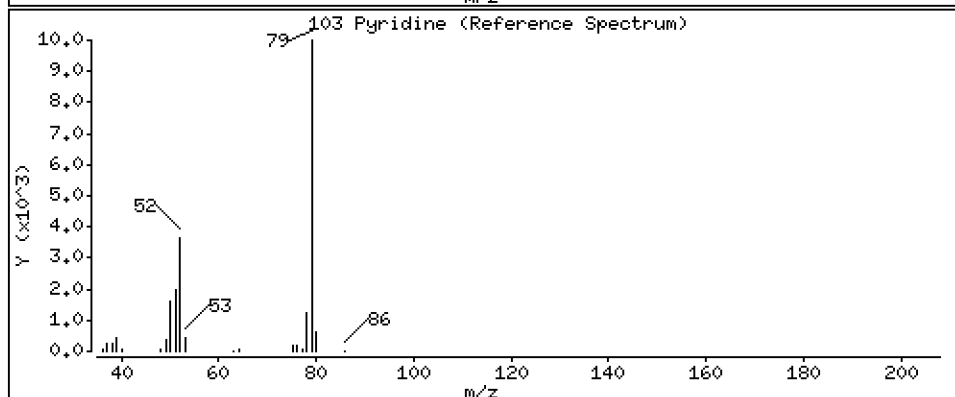
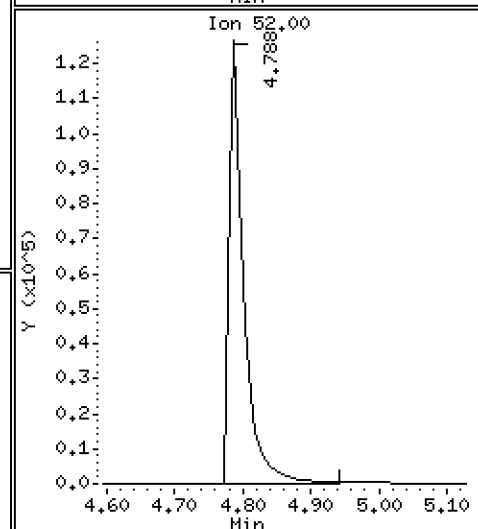
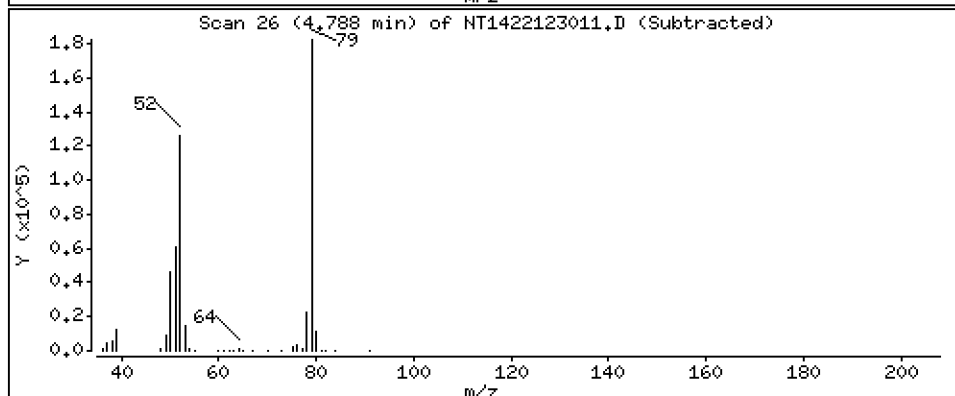
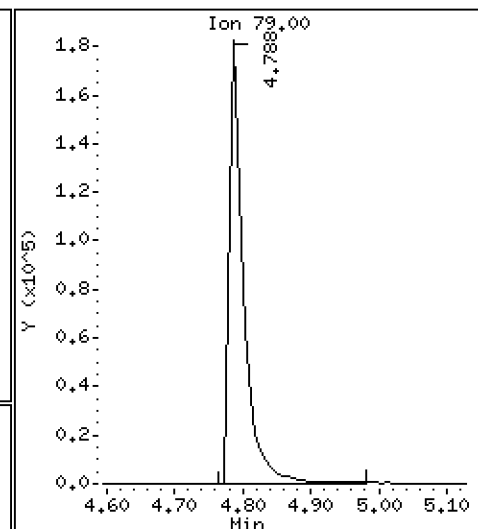
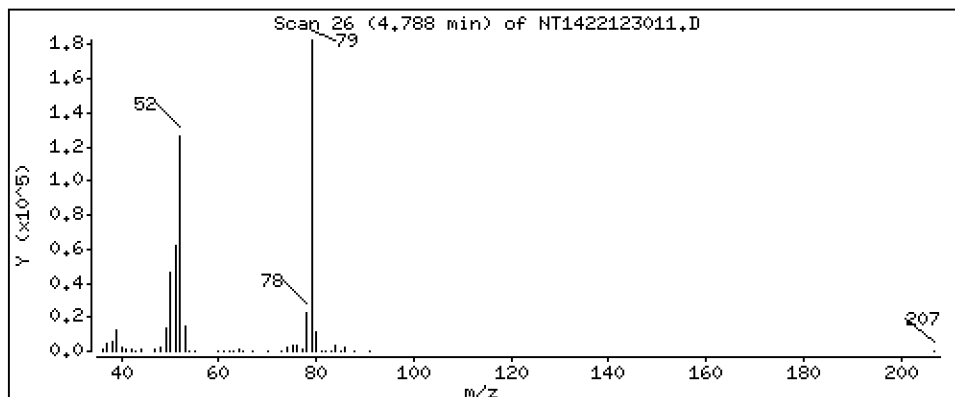
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,681 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

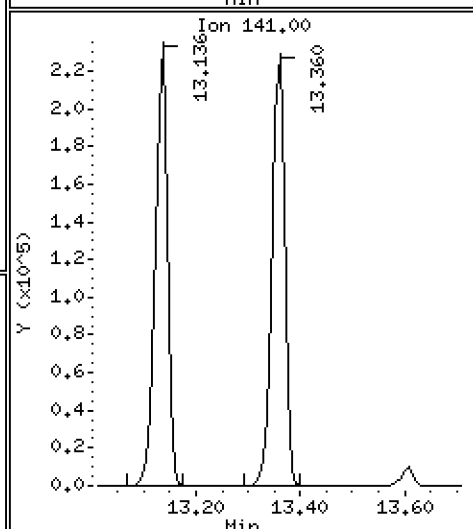
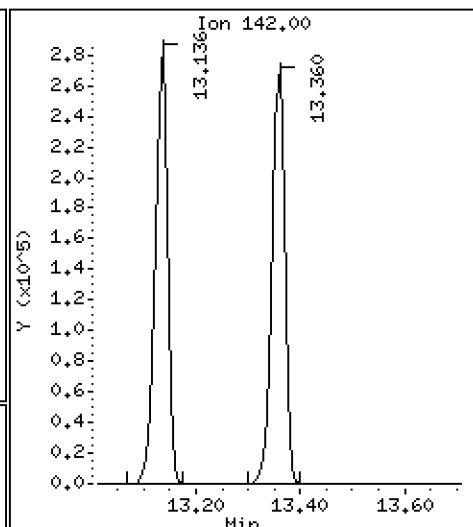
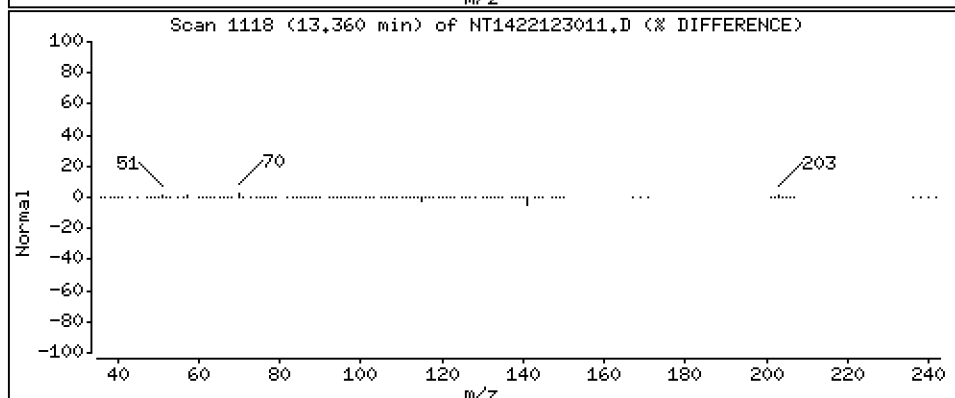
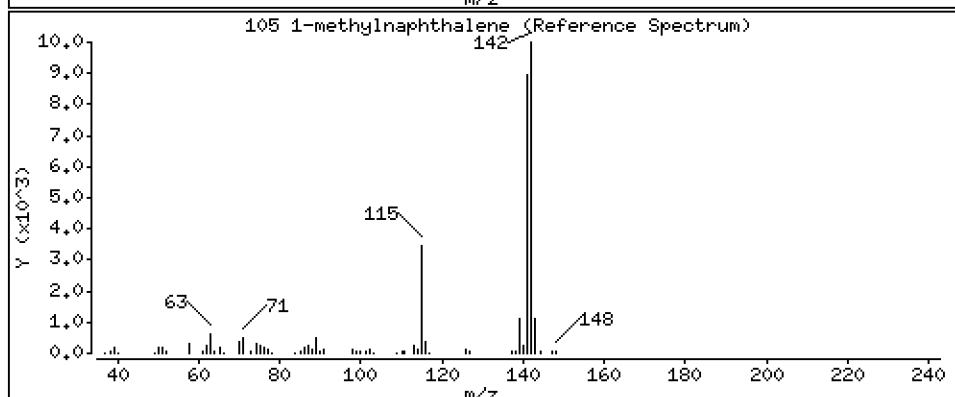
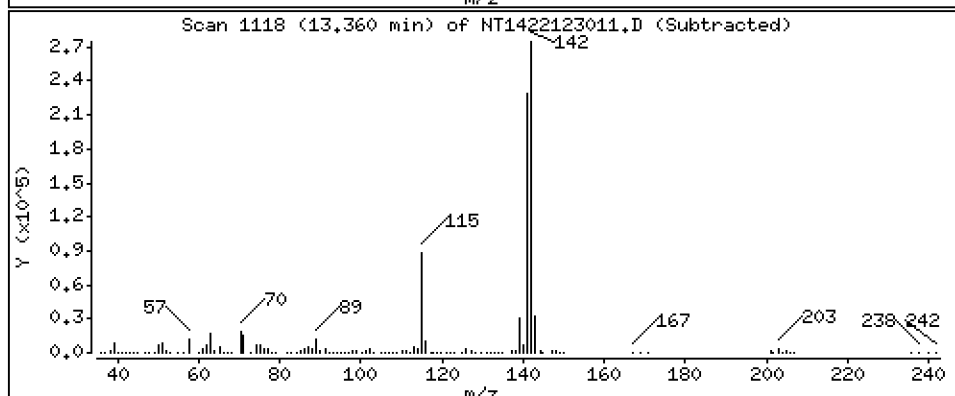
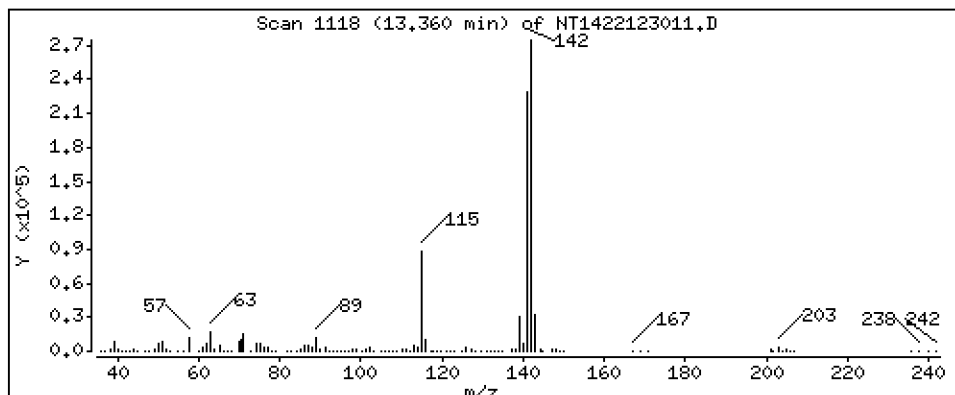
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,671 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

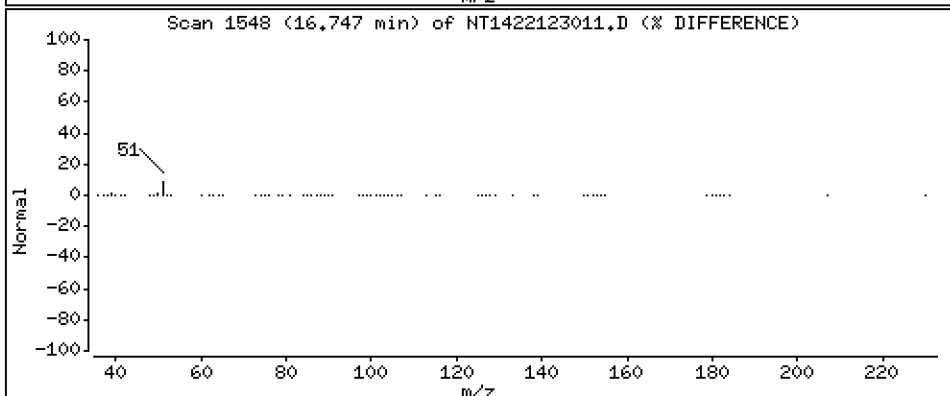
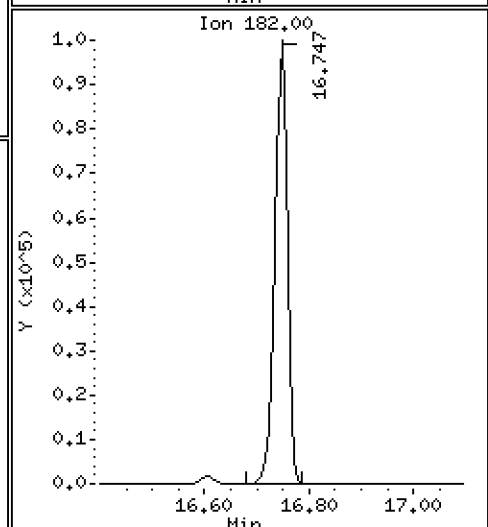
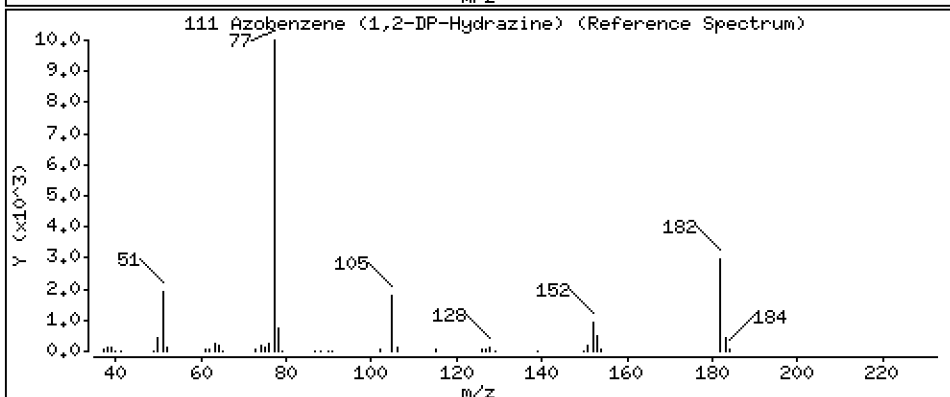
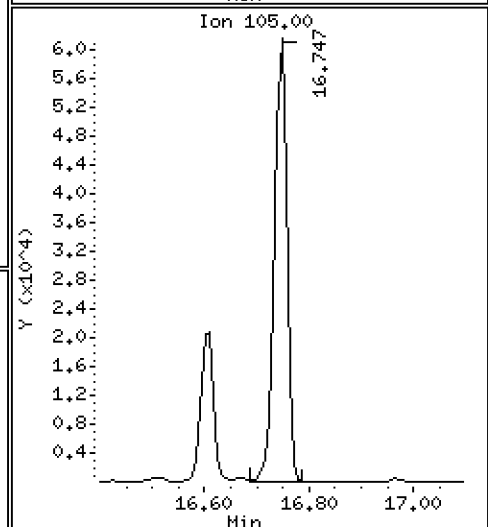
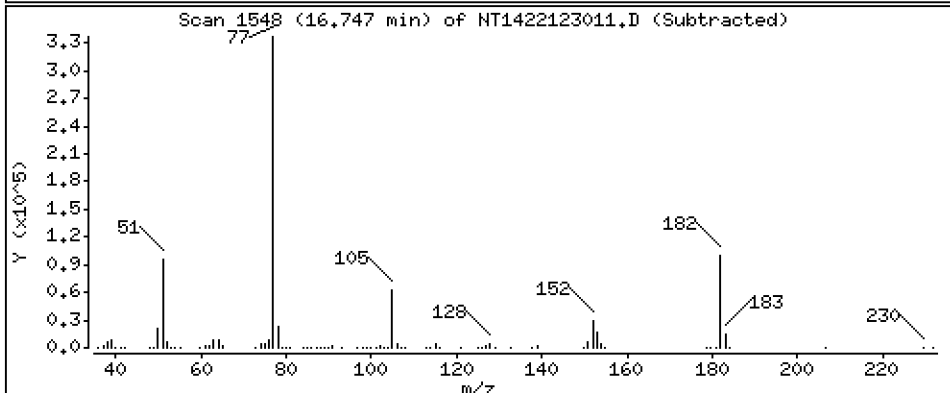
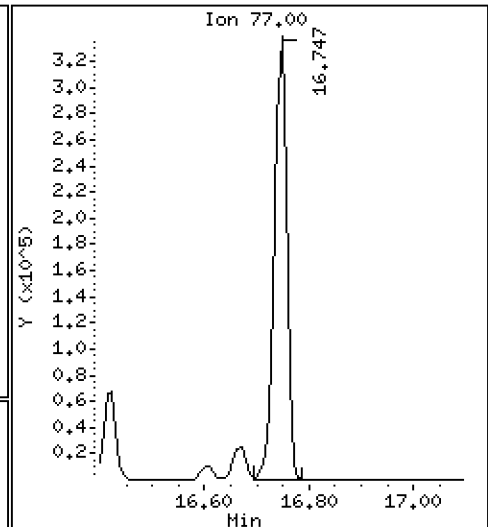
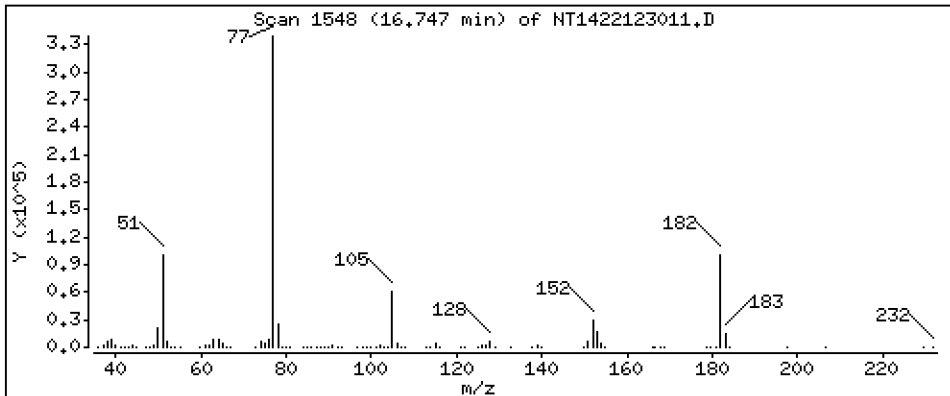
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,893 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

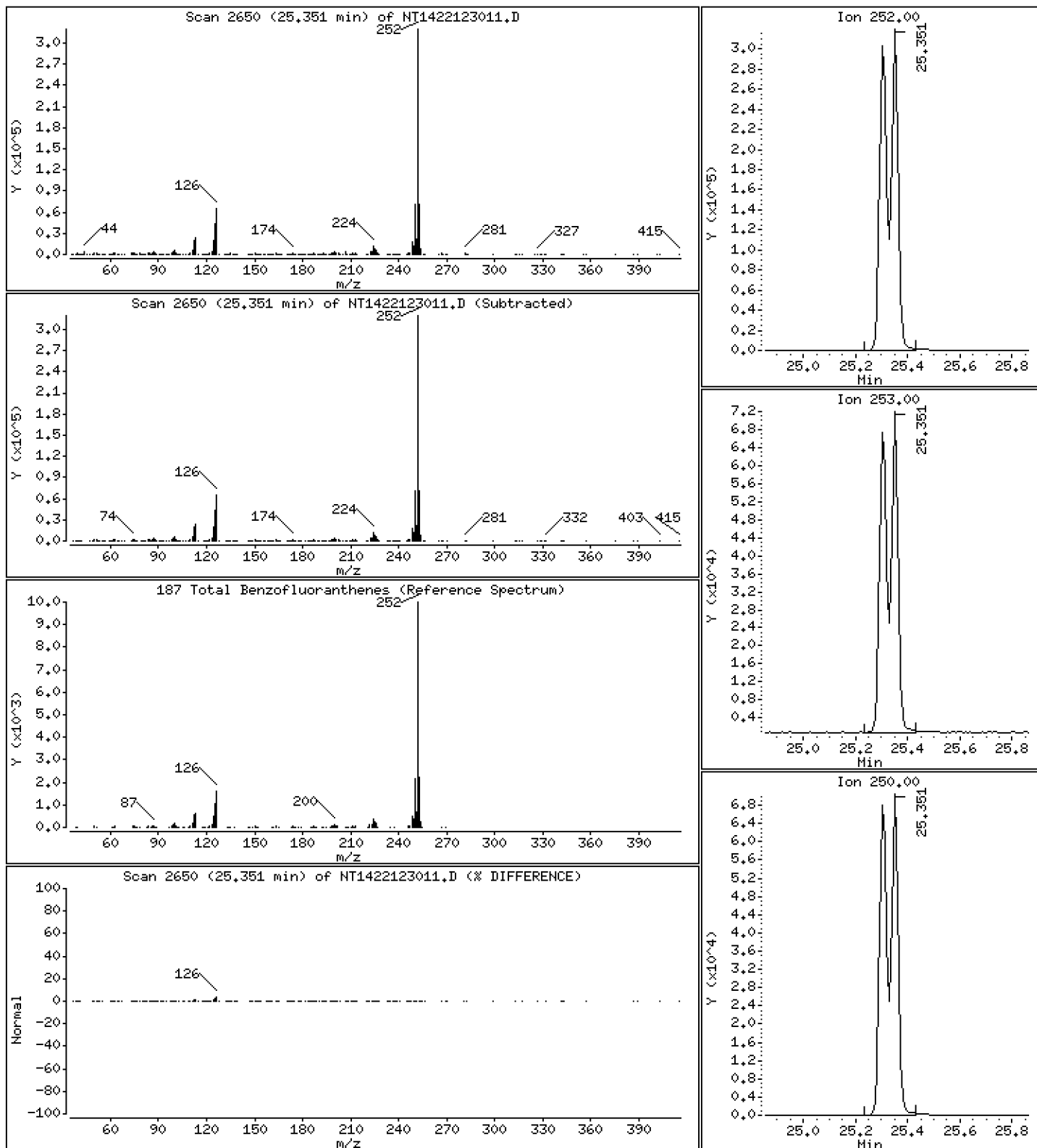
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,972 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

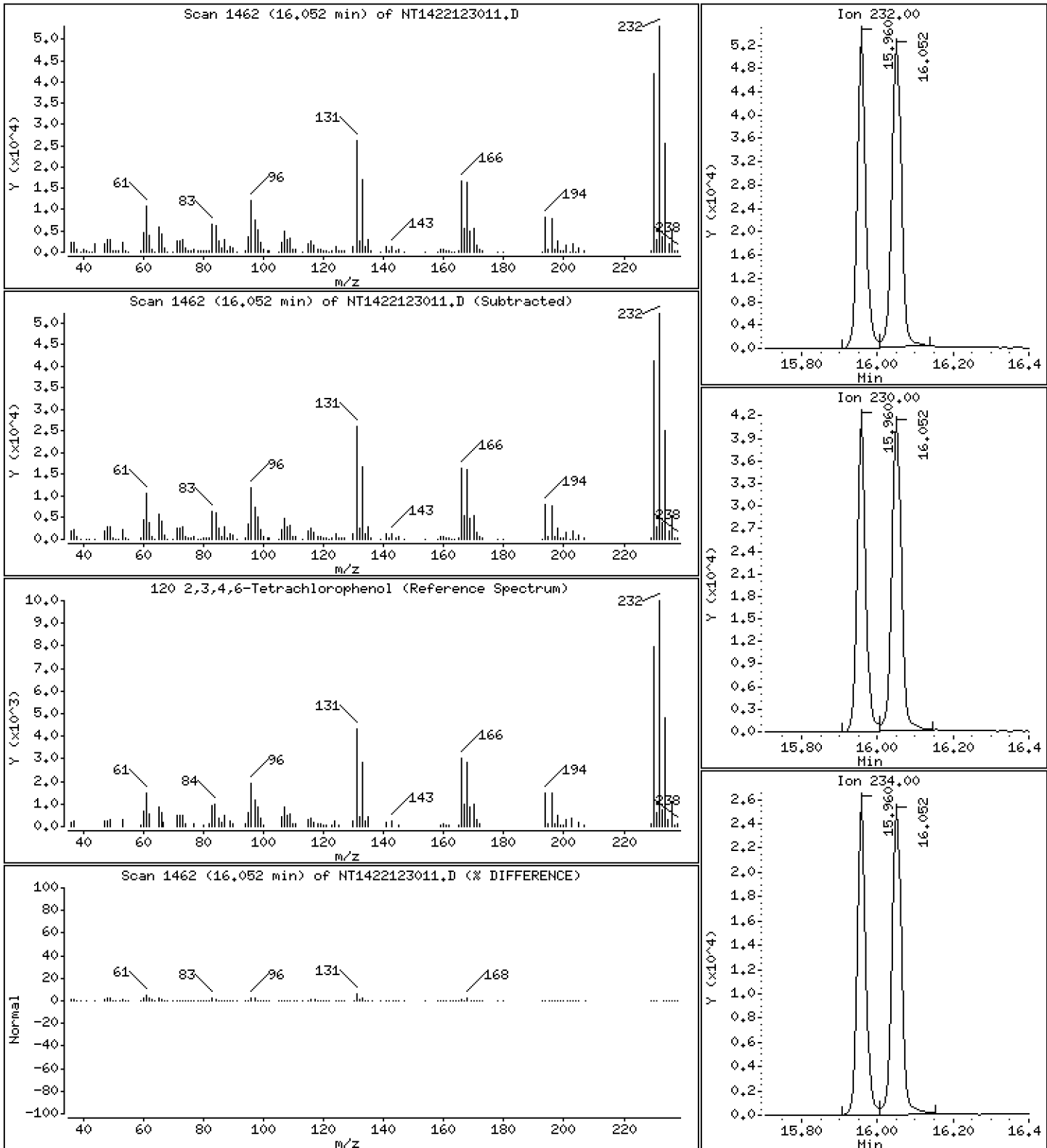
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,079 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D
 Lab Smp Id: SKL0355-ICV1
 Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	340542	7.31681	7.317
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	425409	7.39610	7.396
3 Phenol	94		8.550	8.549	(0.931)	284374	4.35110	4.351
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	353505	7.31802	7.318
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	229408	5.09546	5.095
6 2-Chlorophenol	128		8.843	8.843	(0.963)	236672	4.46115	4.461
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	267449	4.75416	4.754
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	145276	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	254370	4.77289	4.773
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	157368	4.76640	4.766
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	249154	4.76694	4.767
11 Benzyl alcohol	108		9.447	9.447	(1.029)	144889	4.97978	4.980
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	78691	5.19294	5.193
13 2-Methylphenol	108		9.673	9.672	(1.053)	186498	3.92700	3.927
17 Hexachloroethane	117		10.177	10.177	(1.108)	96618	4.92918	4.929
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	148366	5.12841	5.128
15 4-Methylphenol	108		9.952	9.944	(1.084)	206520	4.12221	4.122
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	222732	4.86182	4.862
19 Nitrobenzene	77		10.317	10.316	(0.883)	222014	4.87964	4.880
20 Isophorone	82		10.767	10.774	(0.921)	402784	6.94605	6.946
21 2-Nitrophenol	139		10.953	10.953	(0.937)	131718	4.55573	4.556
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	173928	3.66274	3.663
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	255794	5.67041	5.670
24 Benzoic acid	105		11.155	11.201	(0.954)	187105	6.38476	6.385
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	175656	4.38838	4.388
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	197978	4.57428	4.574
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	542519	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	642406	4.81161	4.812
29 4-Chloroaniline	127		11.851	11.858	(1.014)	211901	3.84856	3.849
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	103565	4.82279	4.823
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	170811	4.52201	4.522
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	452041	4.61574	4.616
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	112264	5.08058	5.081

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407	
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278	
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817	
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754	
38 2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043	
39 Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023	
40 Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000	
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115	
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000		
43 3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088	
44 Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916	
45 2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036	
46 Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709	
47 4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077	
48 2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956	
50 Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353	
49 Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230	
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094	
52 4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733	
53 4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082	
54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775	
§ 55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239	
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938	
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553	
58 Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796	
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000		
60 Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767	
61 Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373	
62 Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620	
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931	
64 Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090	
65 Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022	
§ 66 Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816	
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005	
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890	
* 69 Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000		
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207	
71 Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763	
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899	
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000		
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083	
74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893	
75 Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093	
76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092	
* 77 Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128	
79 Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087	
80 Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037	
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704	
103 Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681	
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123011.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 13:31

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt14,1\20221230,6\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Sample Info: SKL0365-ICB1

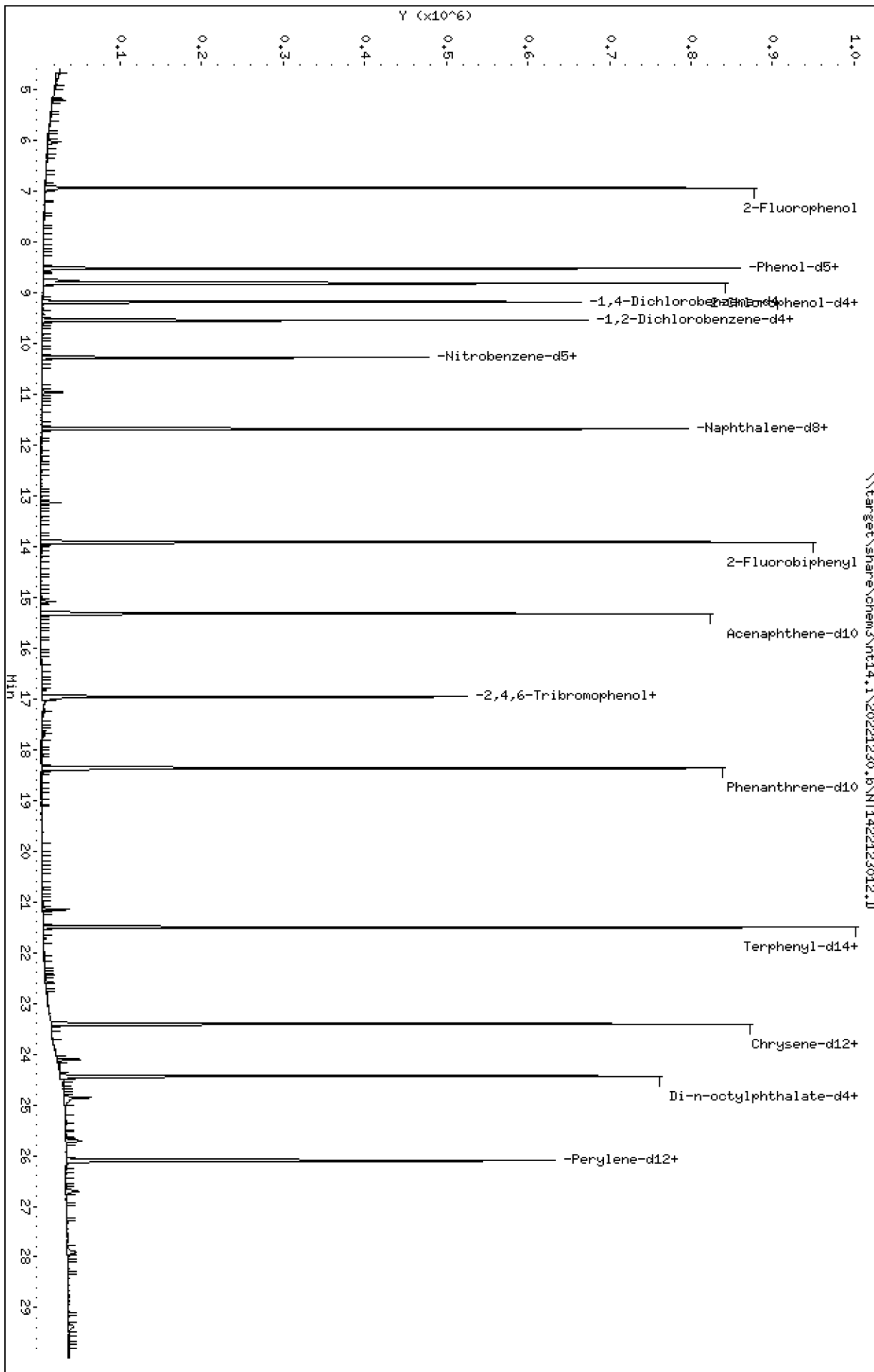
Column phase: ZB-5msi

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

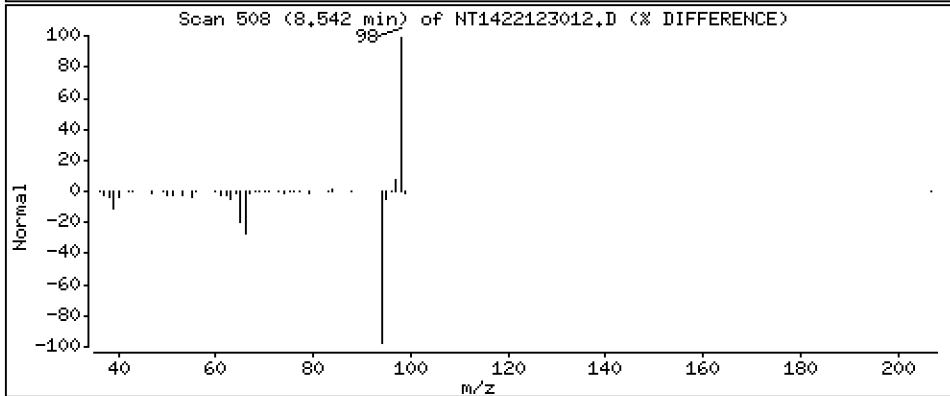
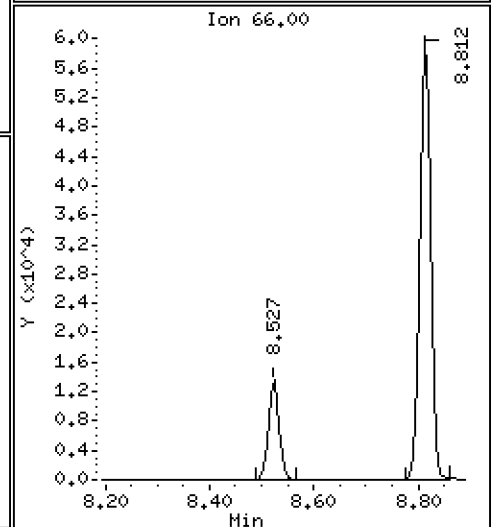
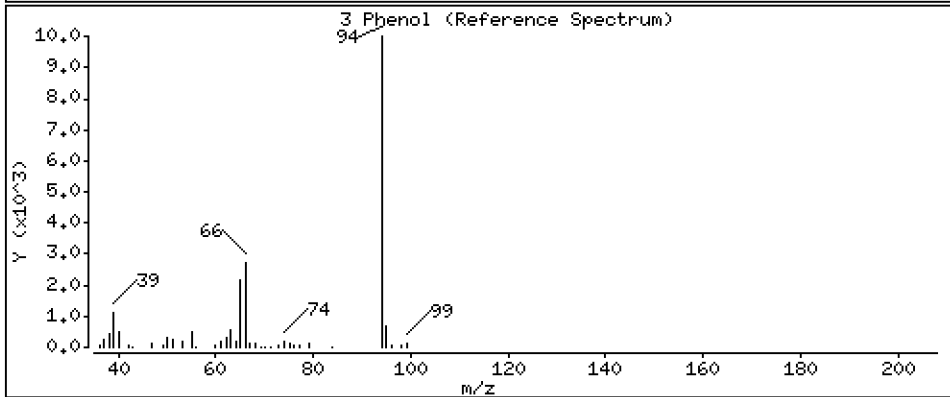
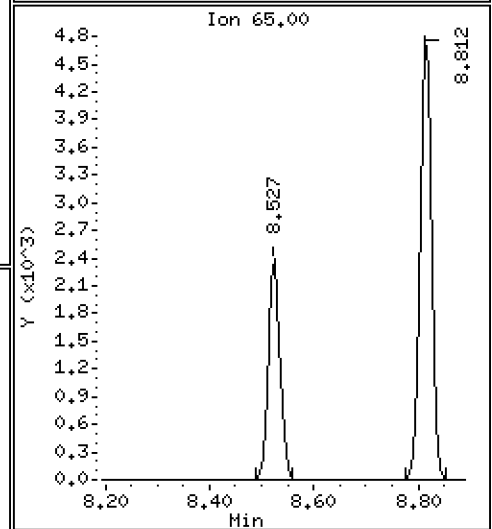
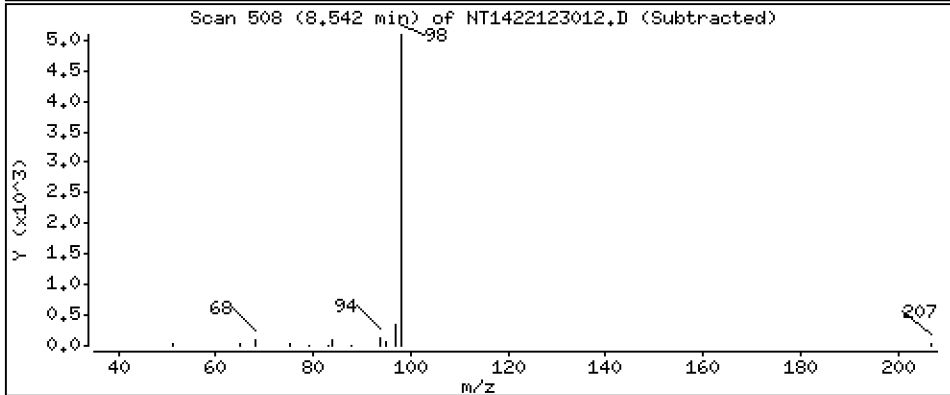
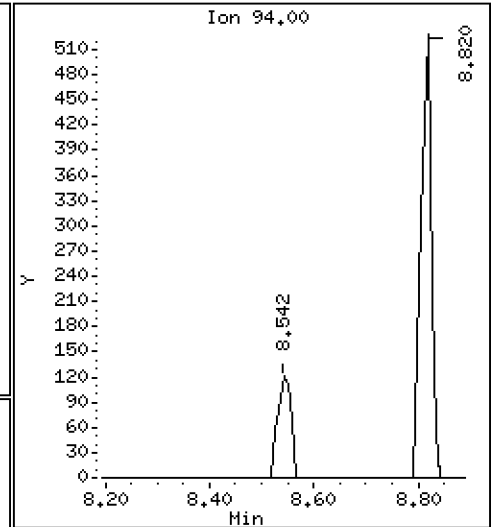
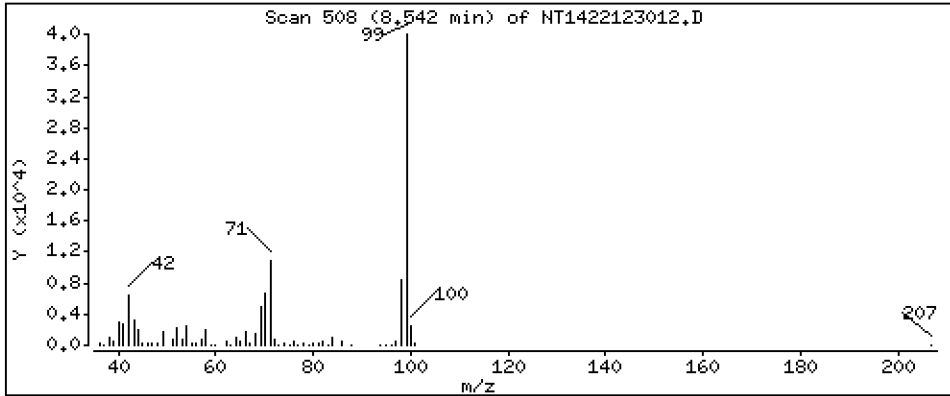
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,002573 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

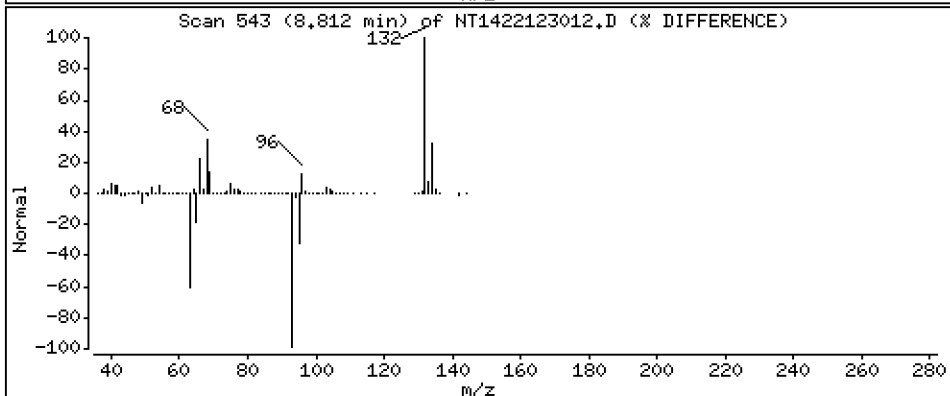
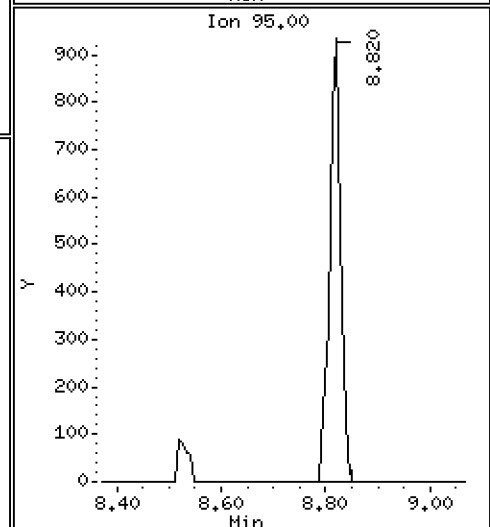
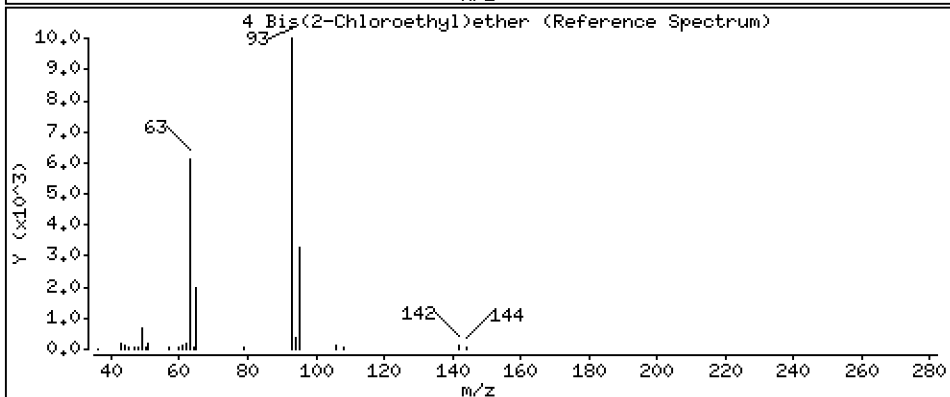
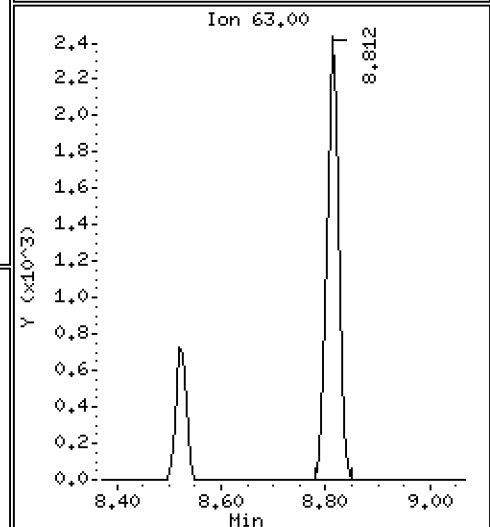
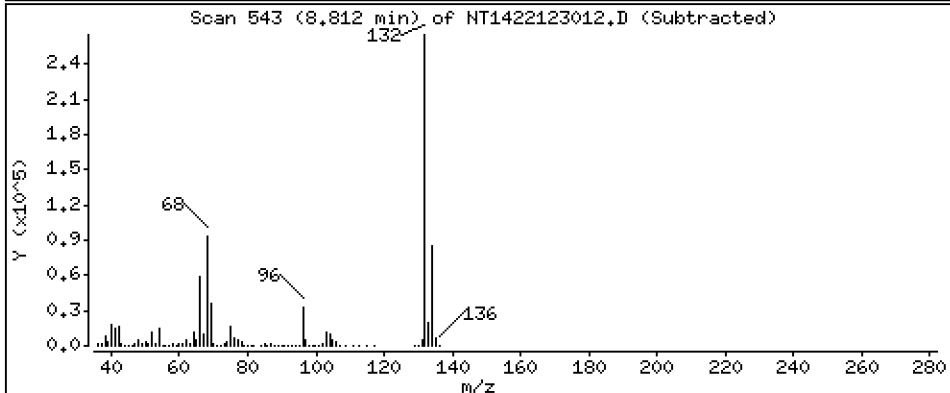
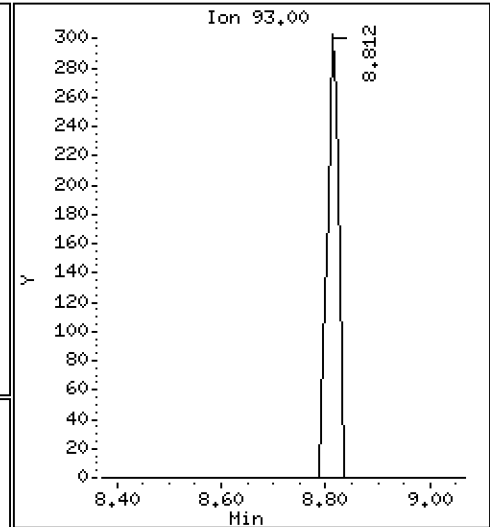
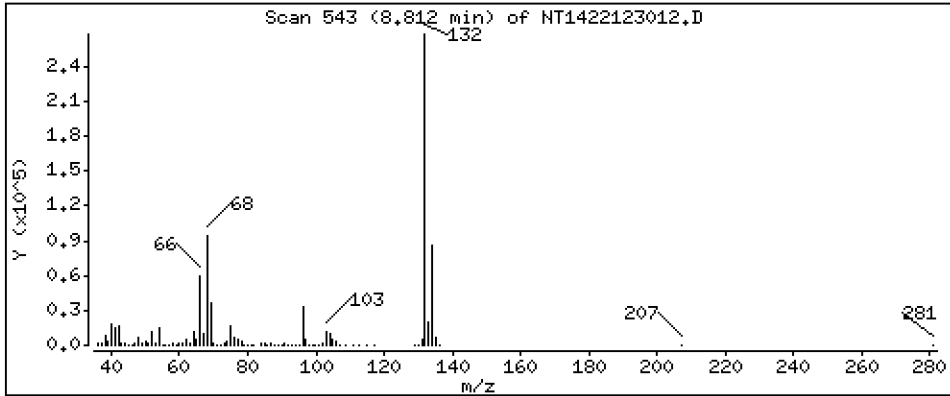
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,008376 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

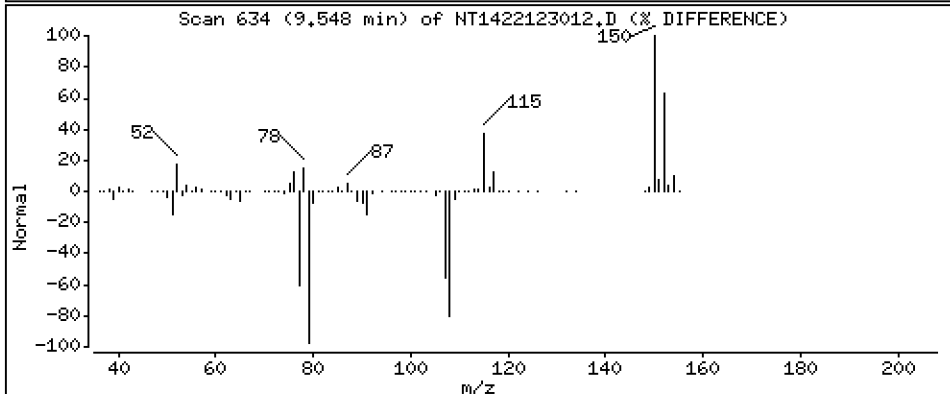
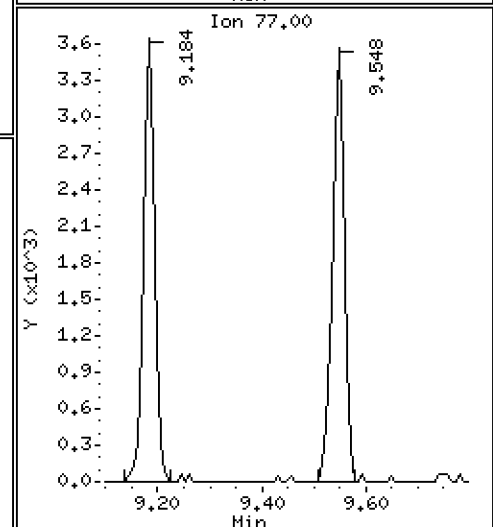
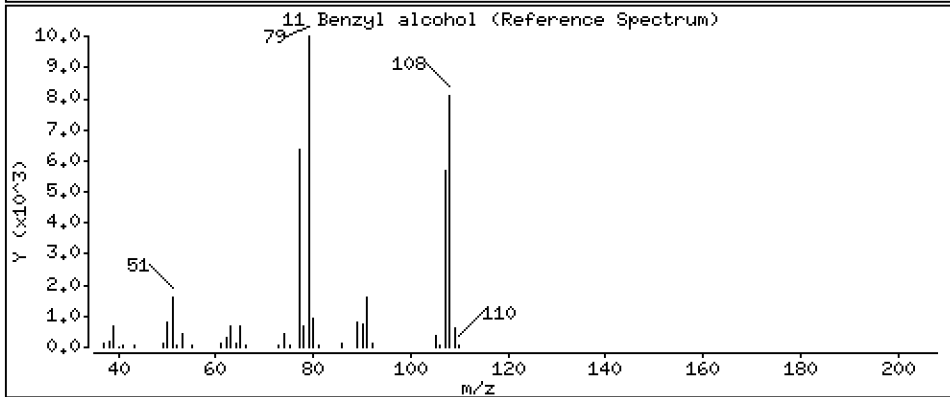
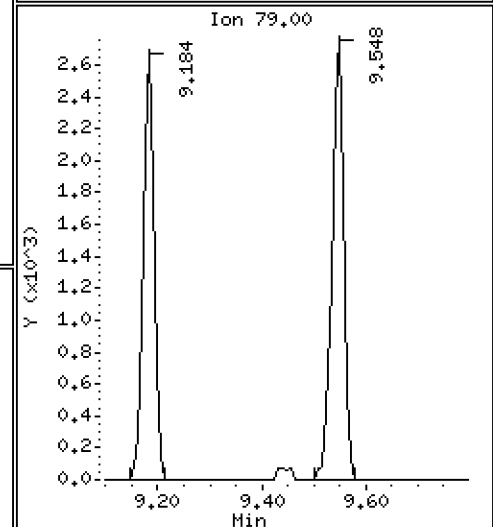
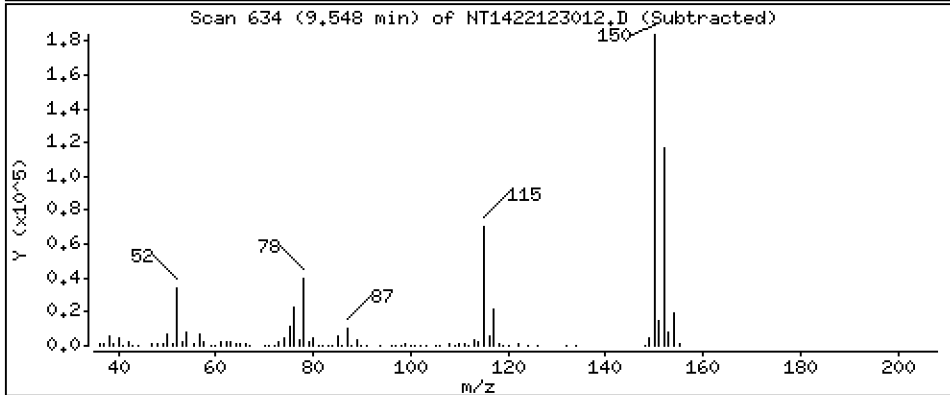
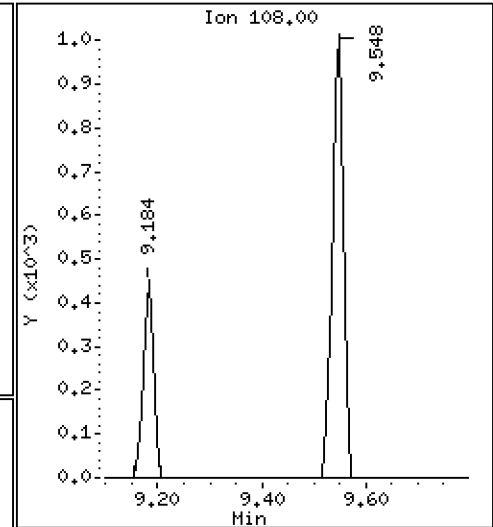
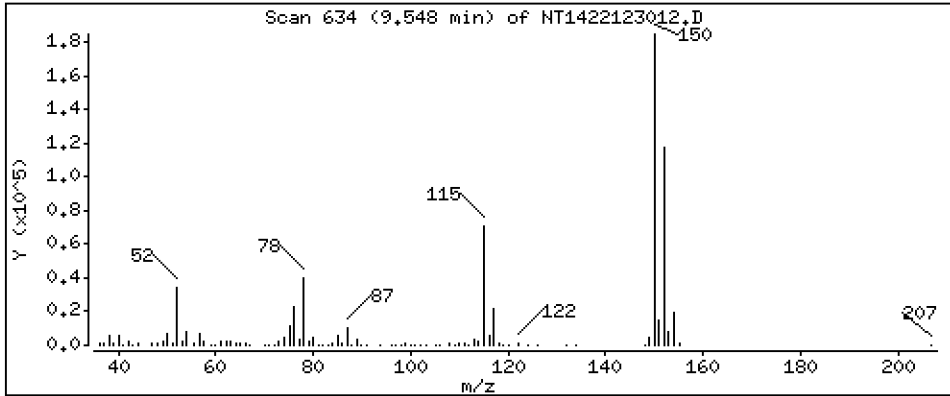
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,04372 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

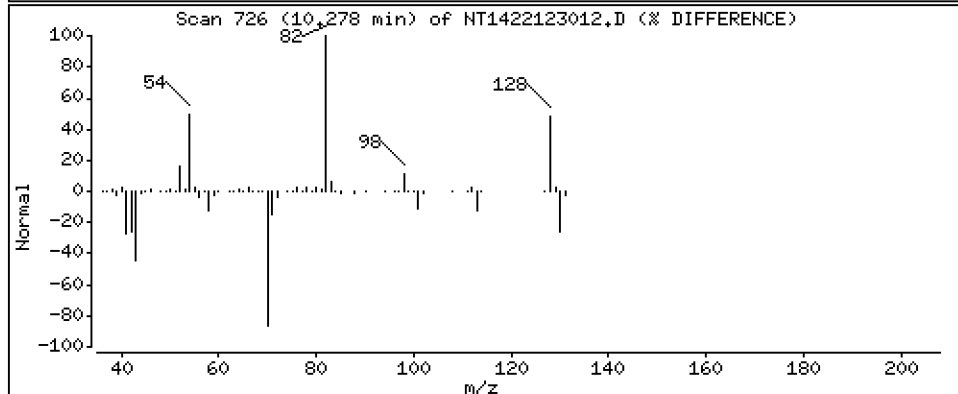
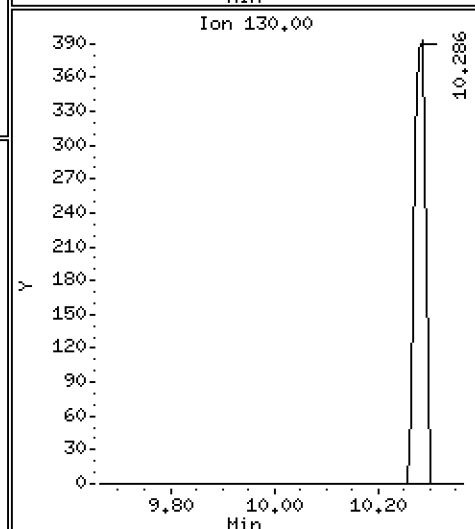
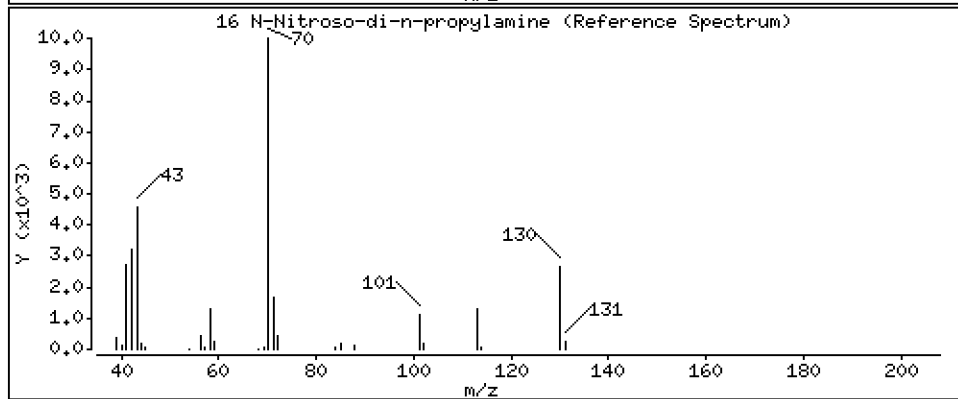
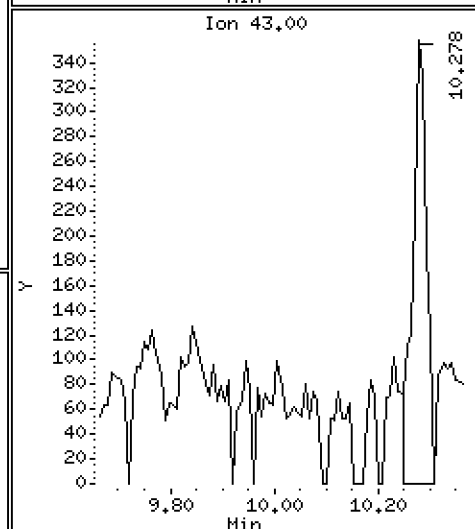
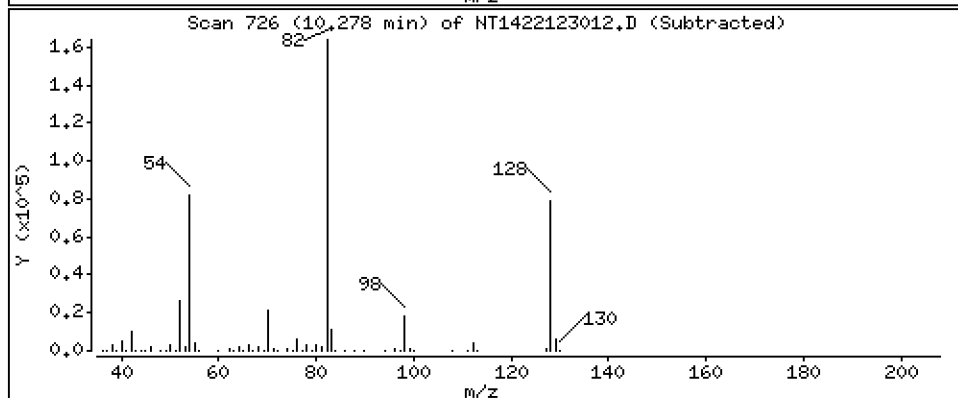
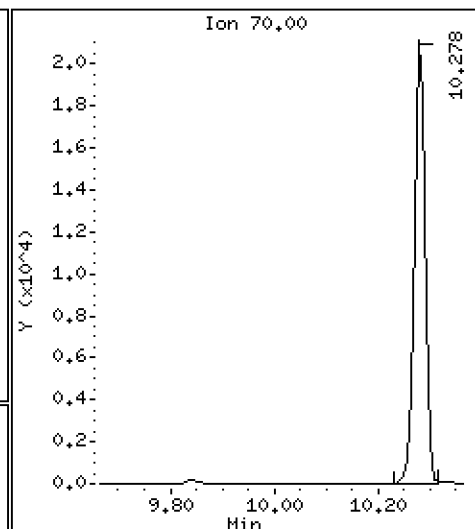
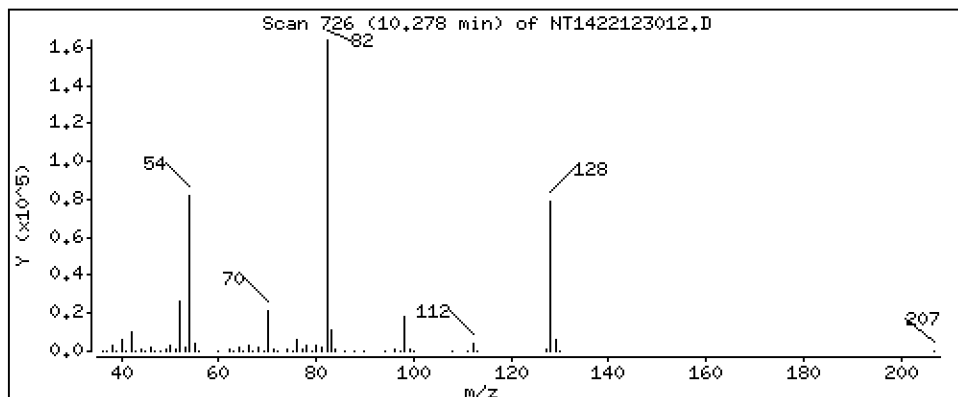
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,9150 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

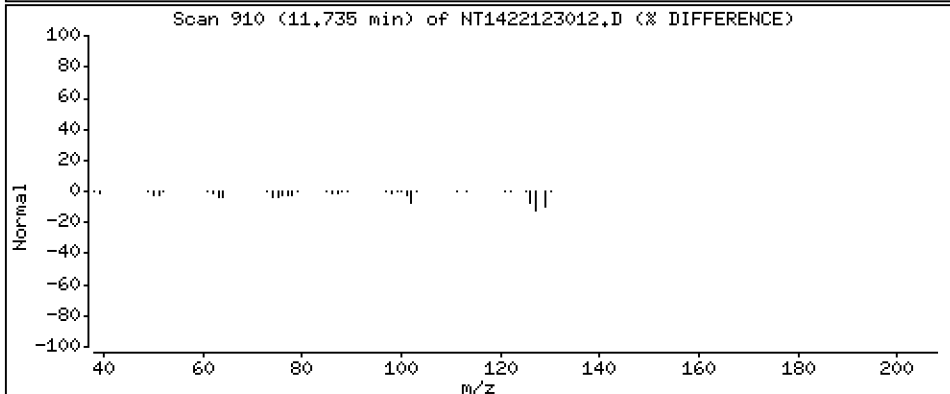
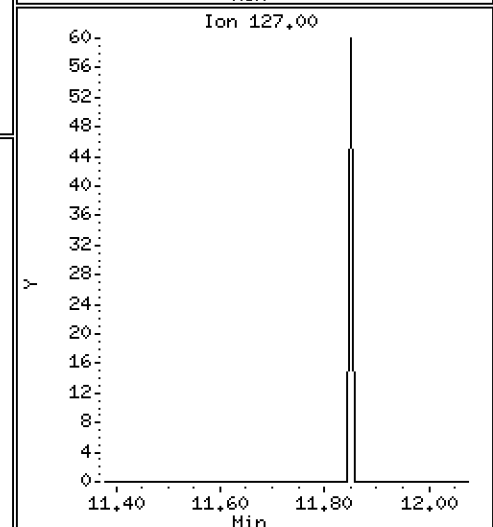
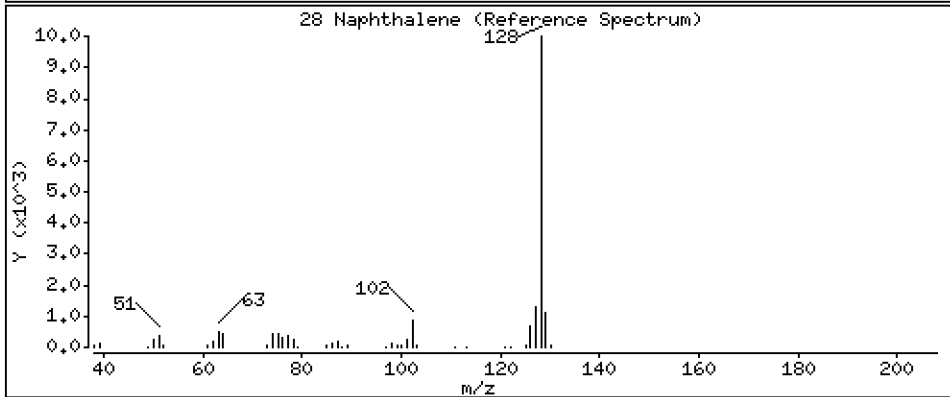
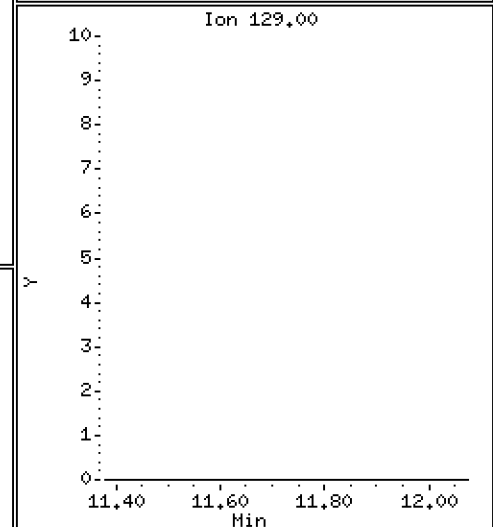
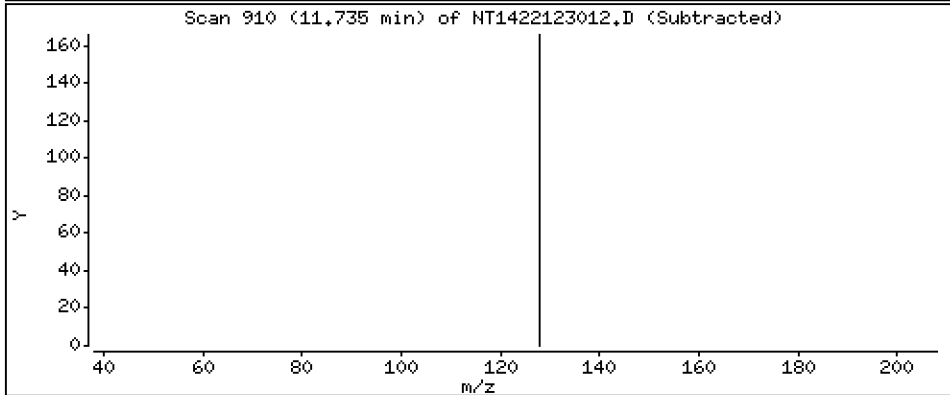
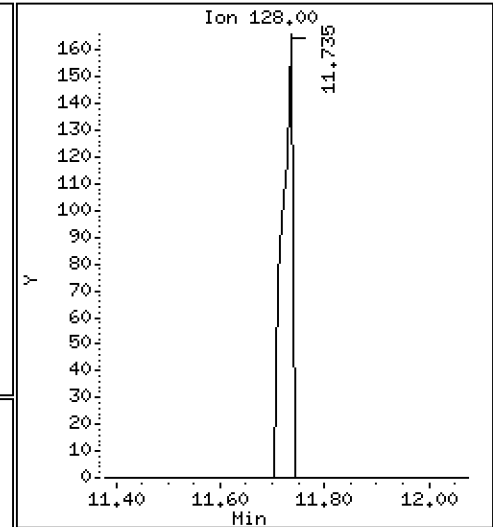
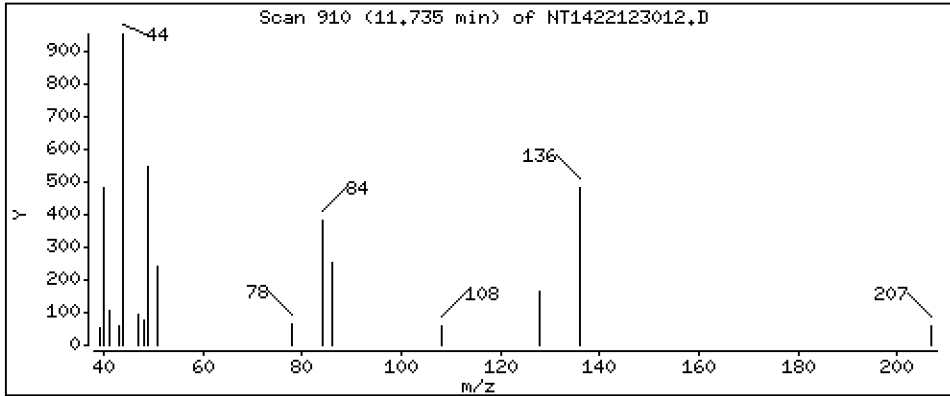
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,001336 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

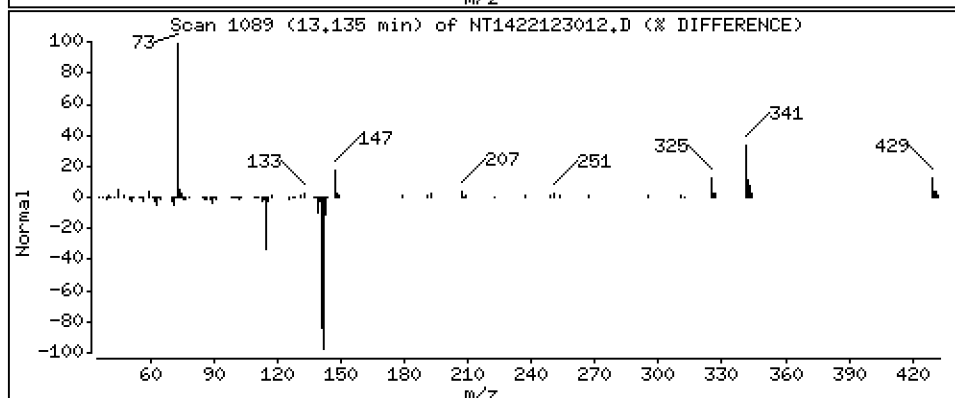
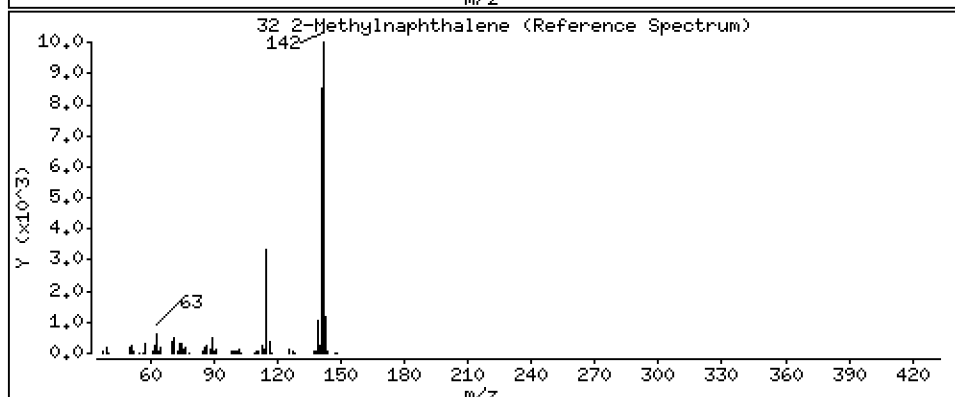
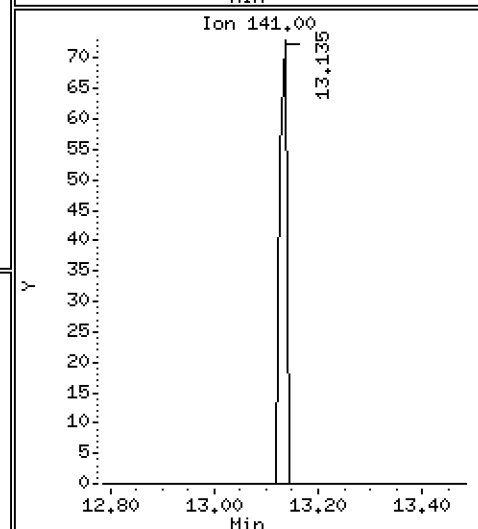
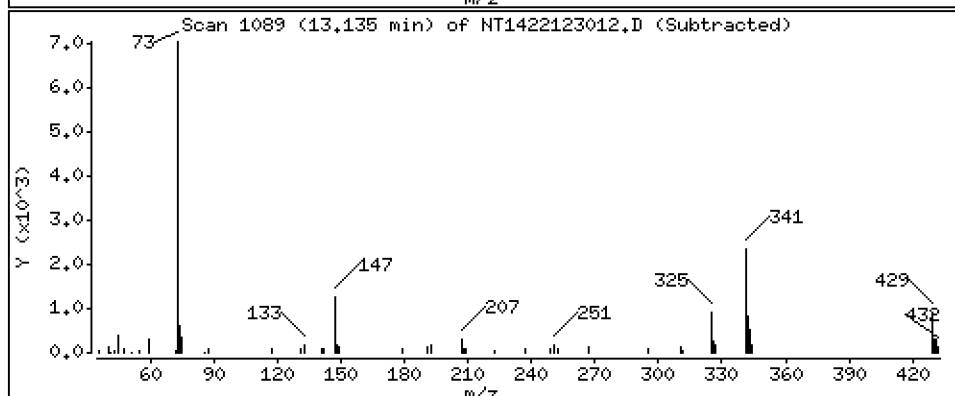
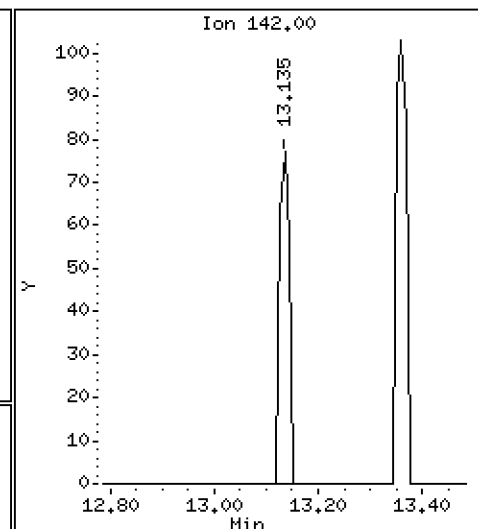
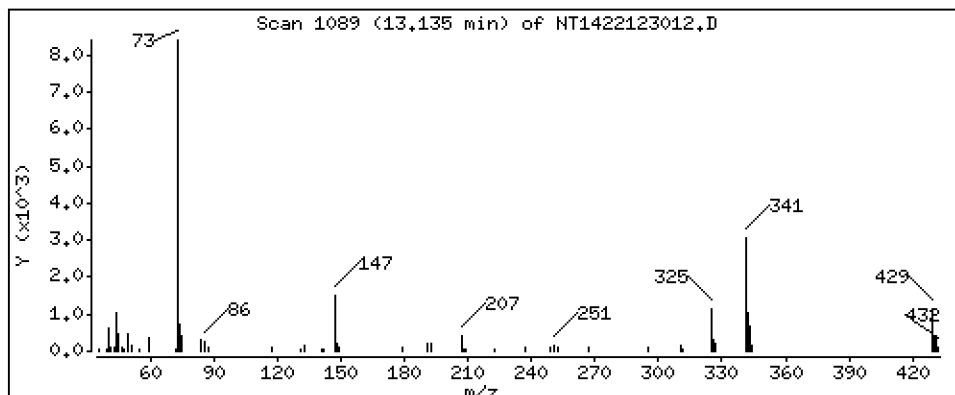
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,0007767 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

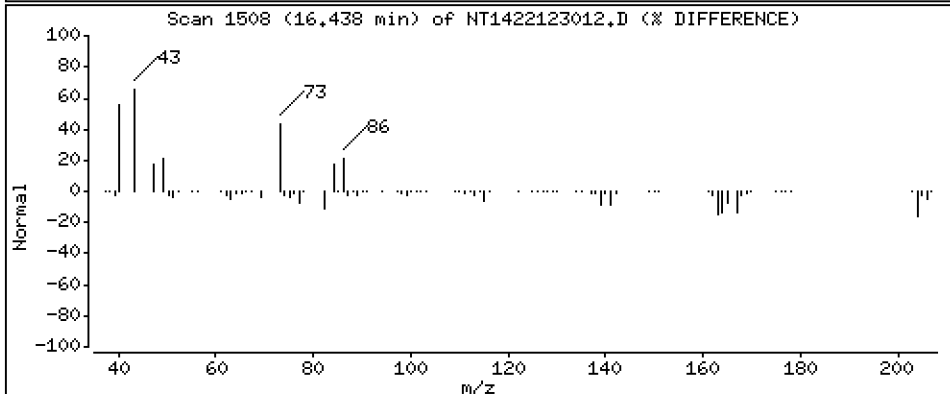
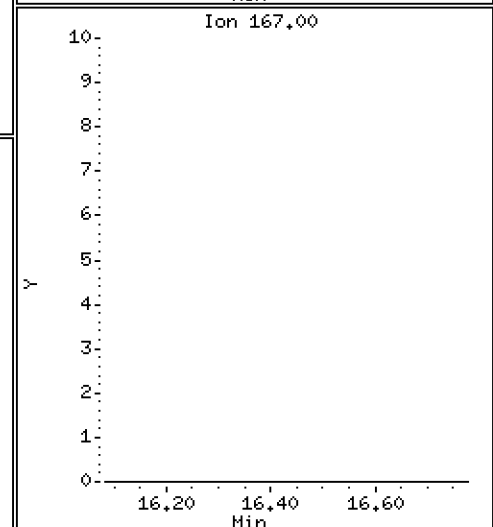
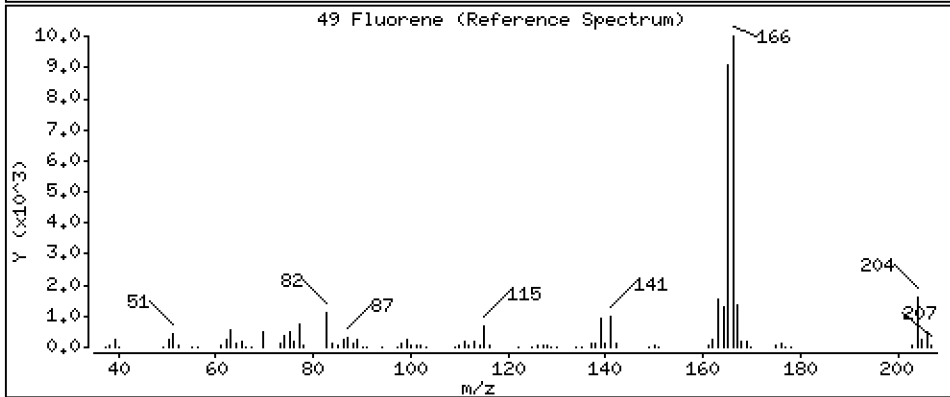
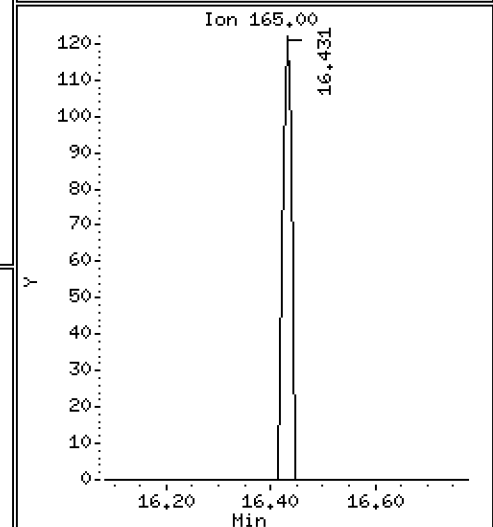
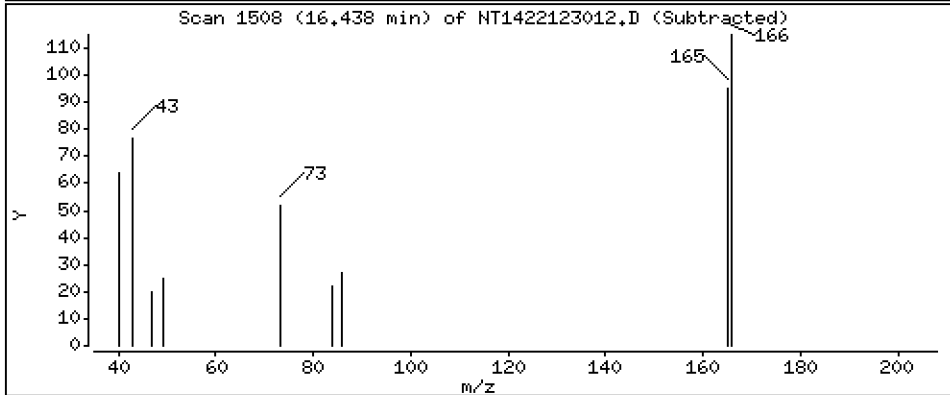
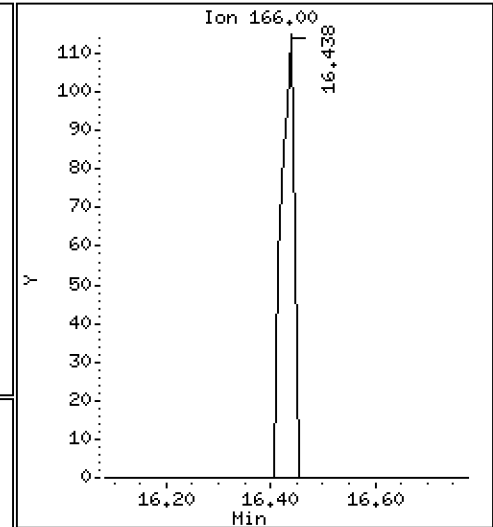
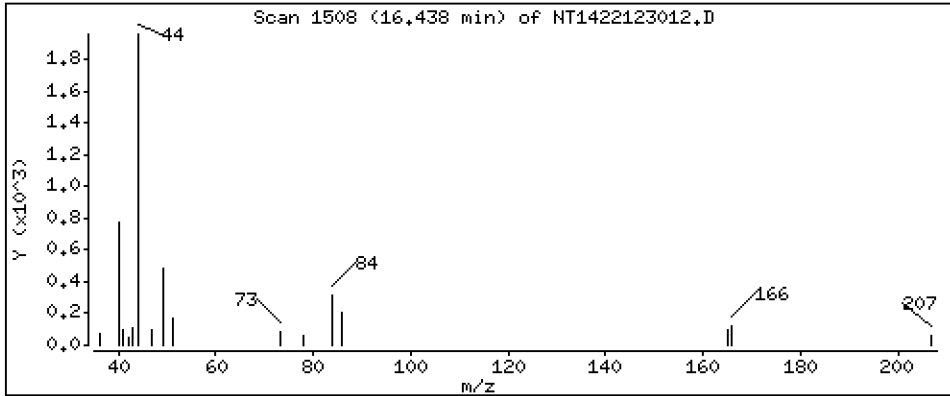
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,001319 ug/mL

49 Fluorene



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

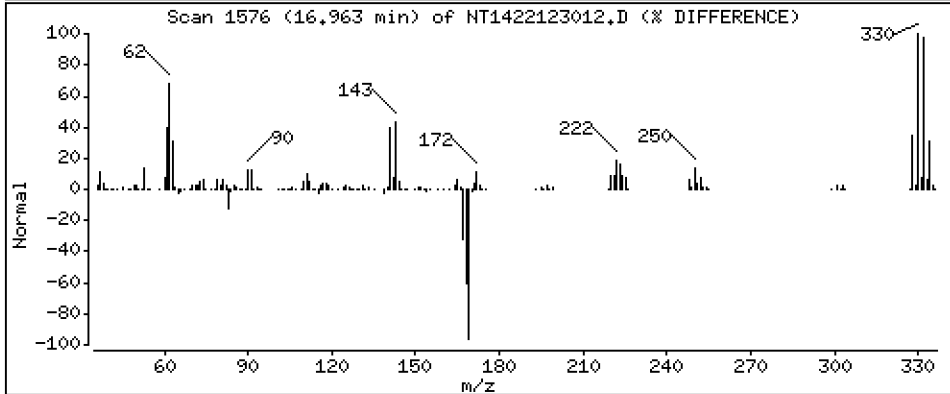
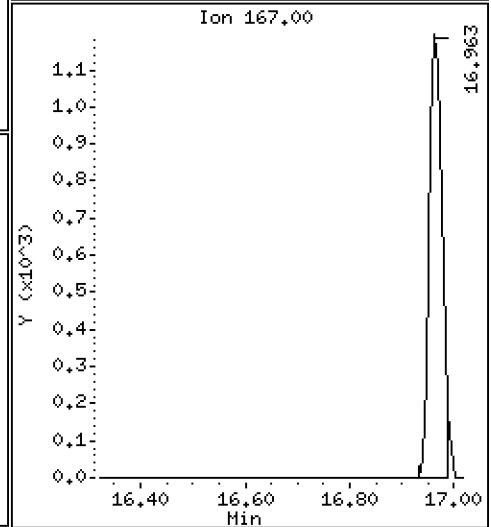
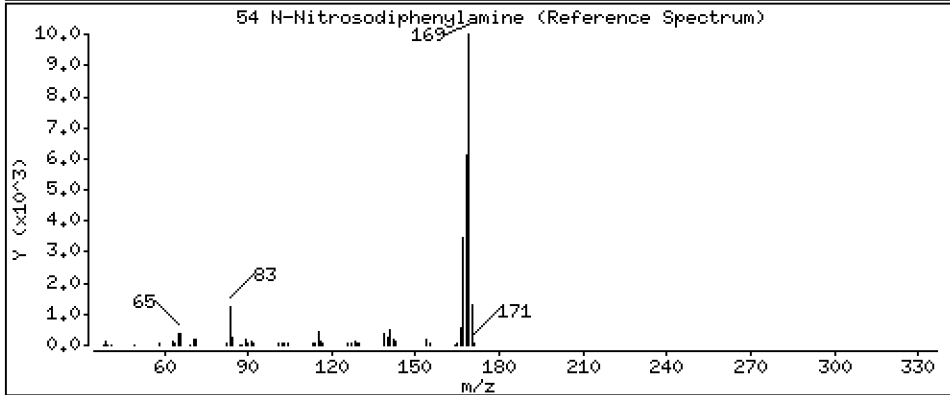
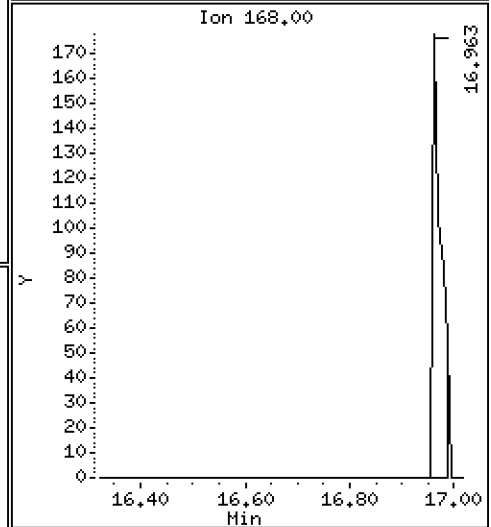
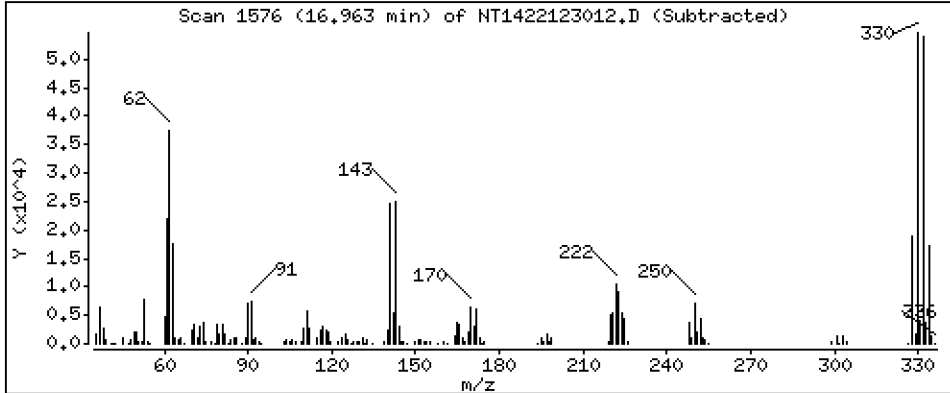
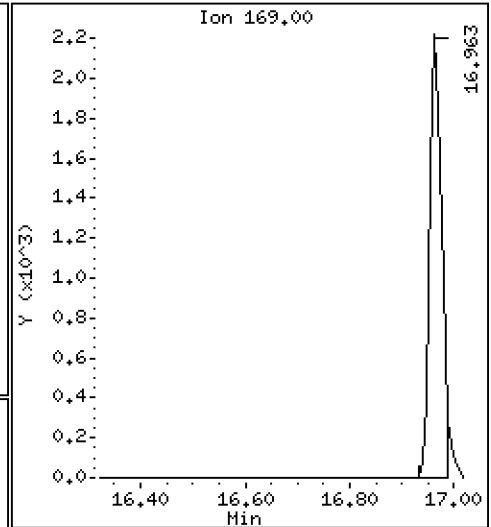
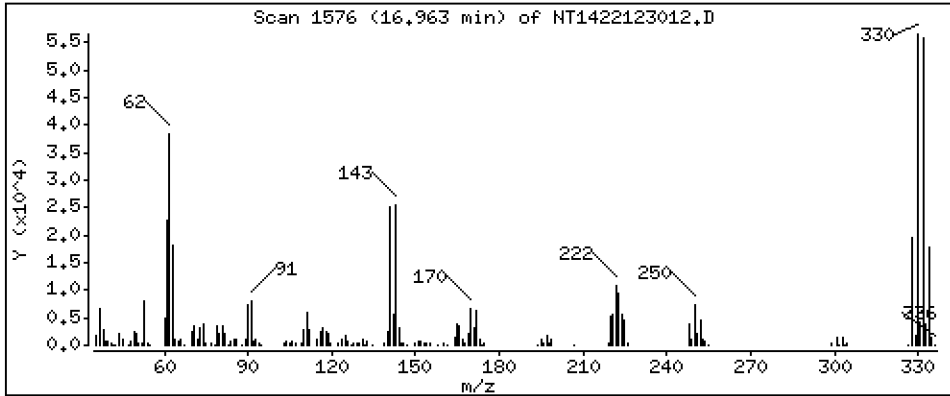
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,03543 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

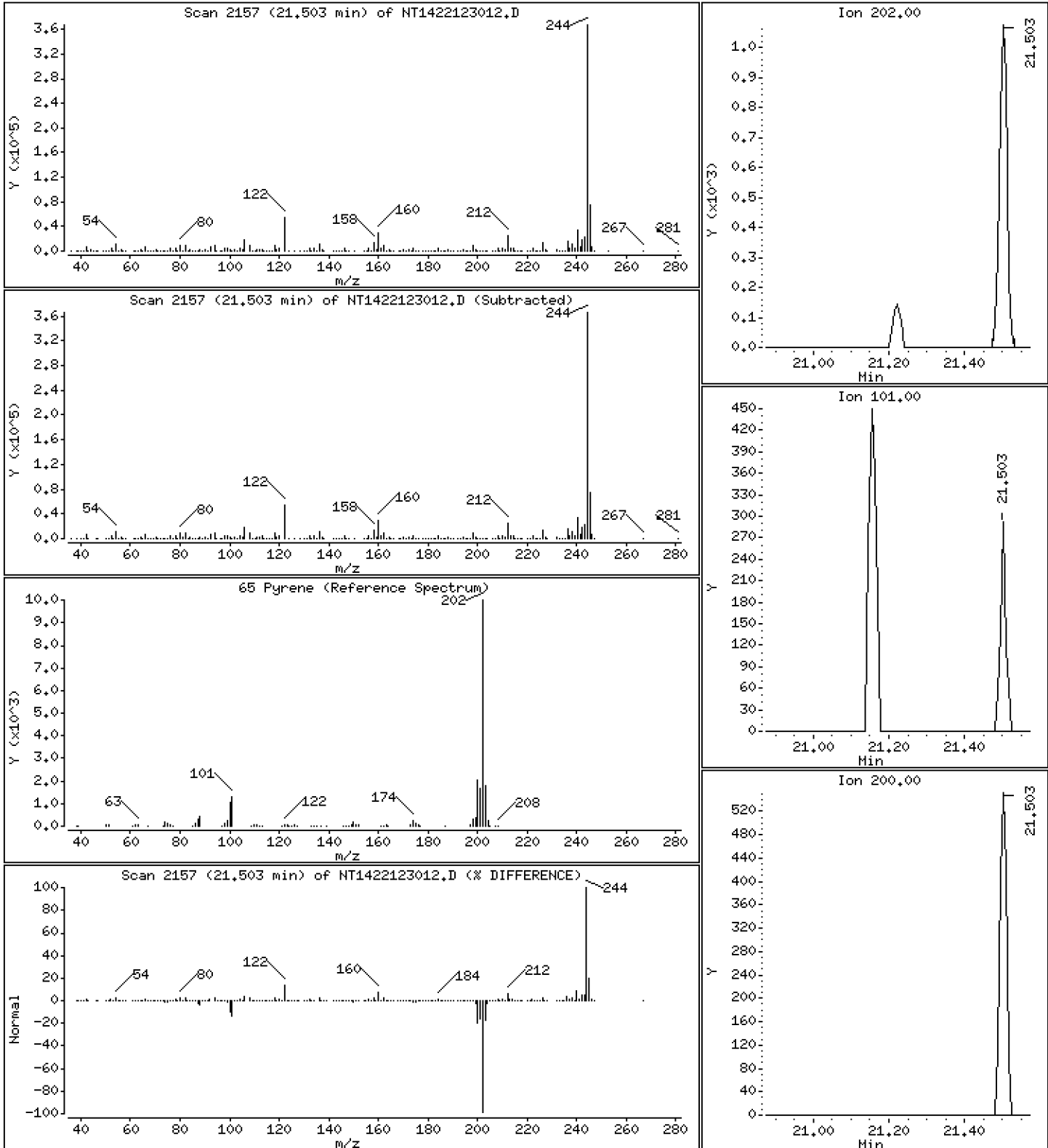
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,01055 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

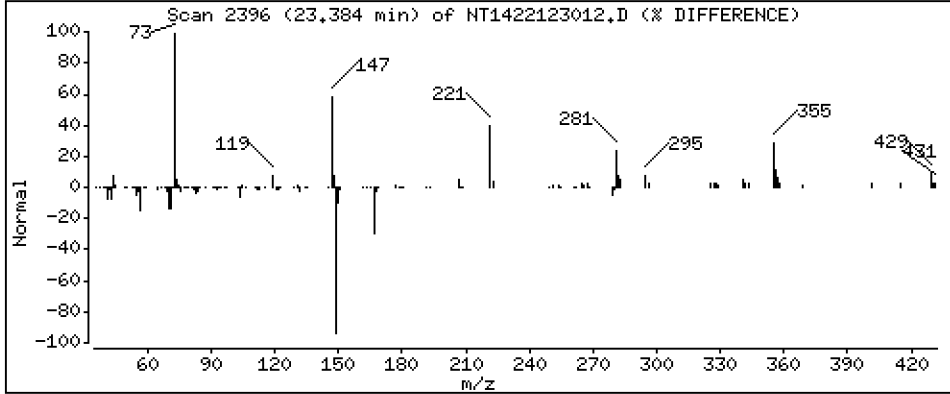
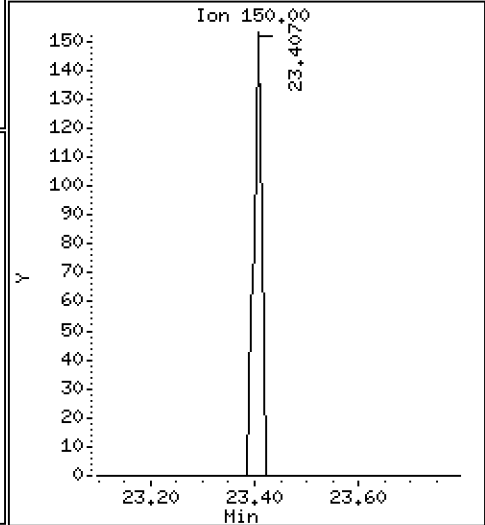
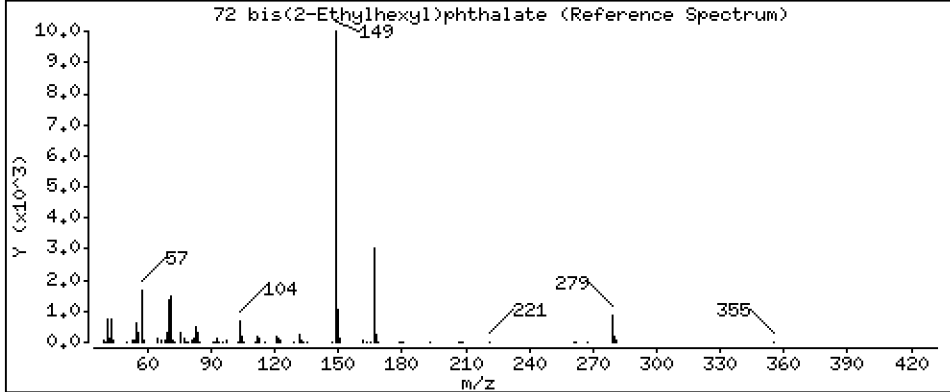
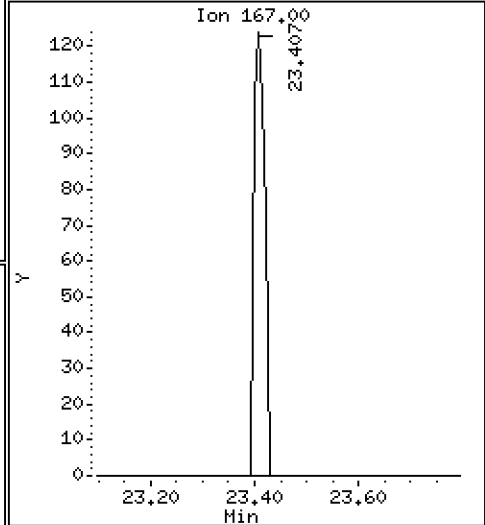
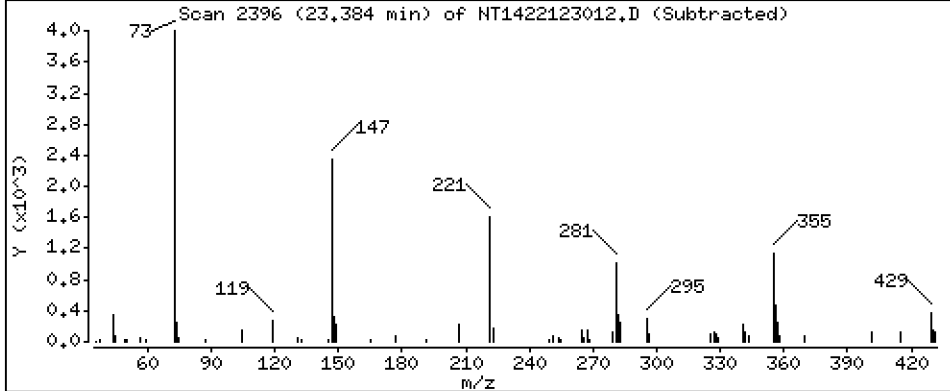
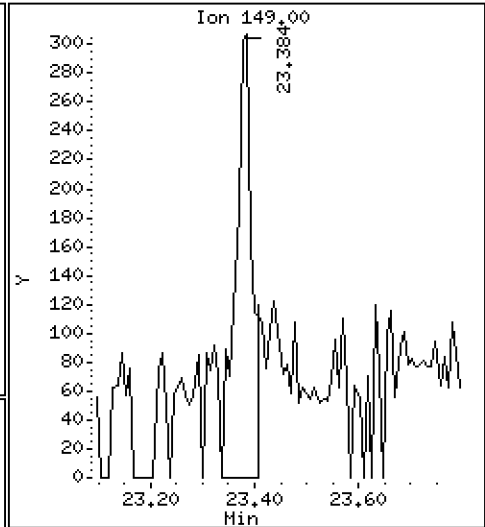
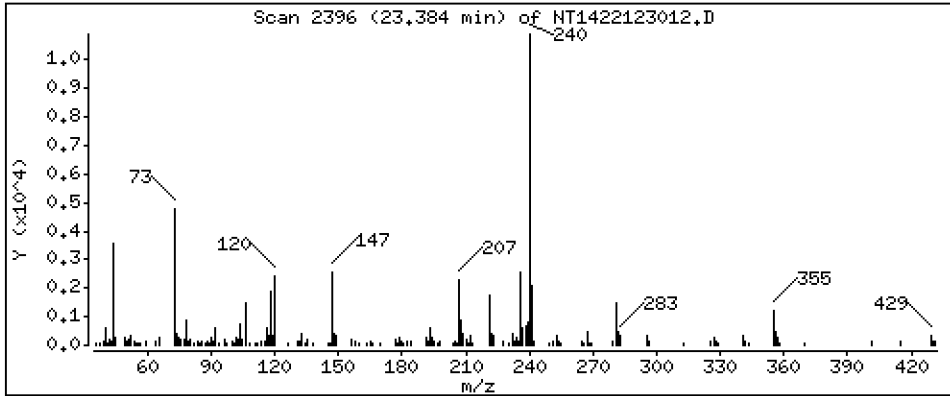
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,01128 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

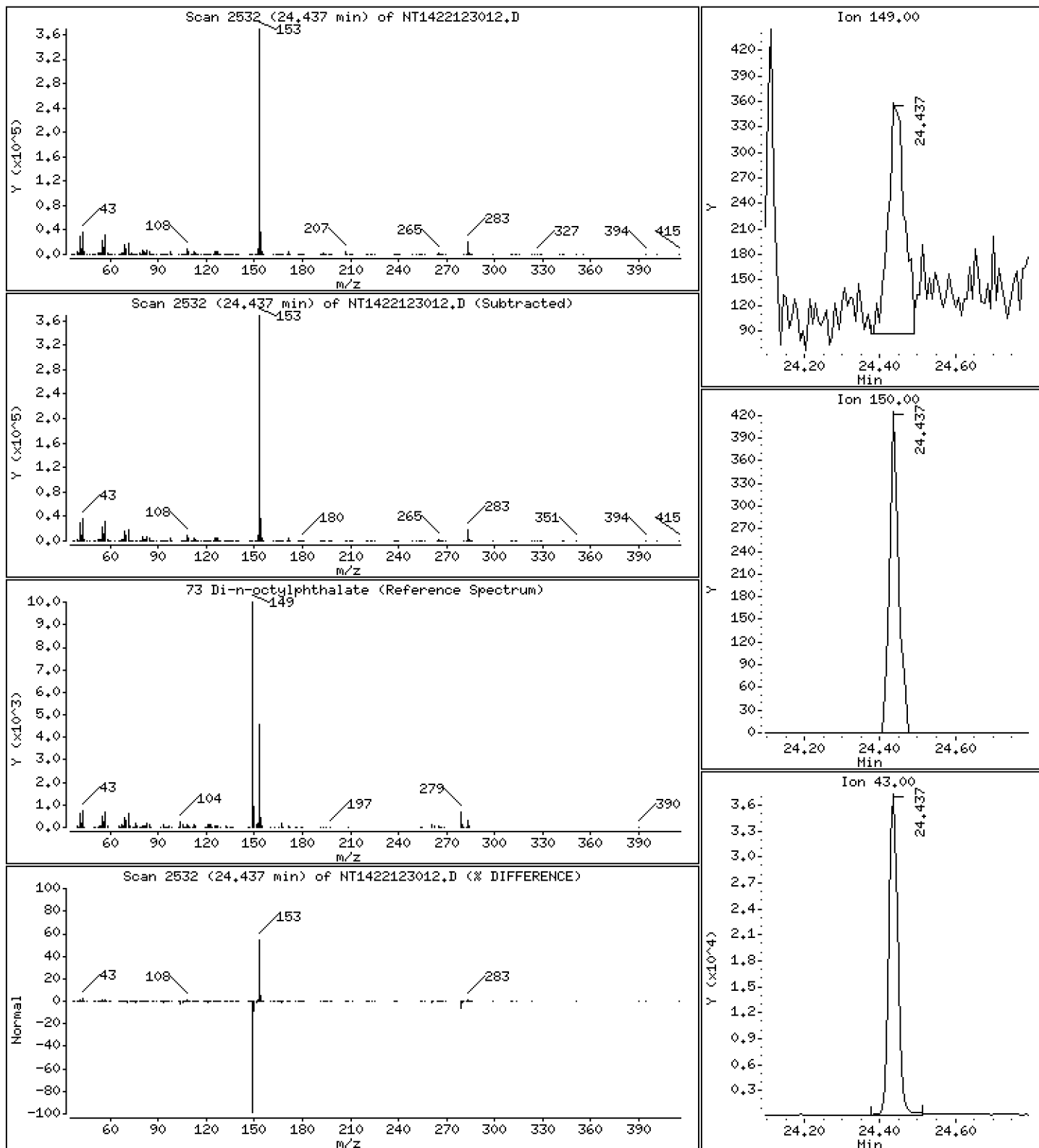
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,006180 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

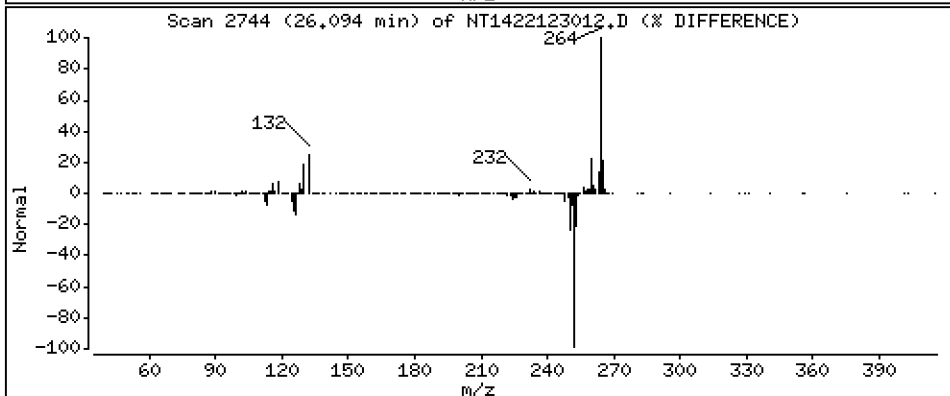
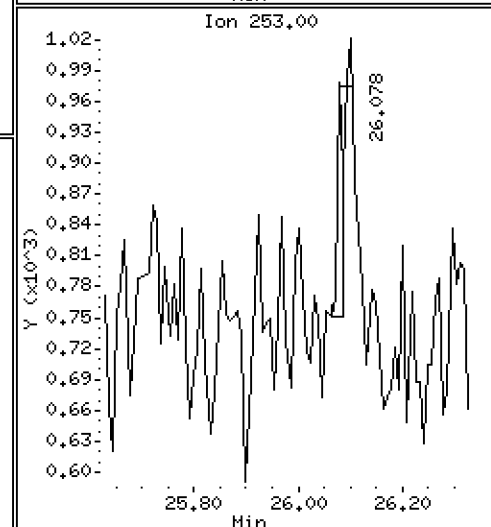
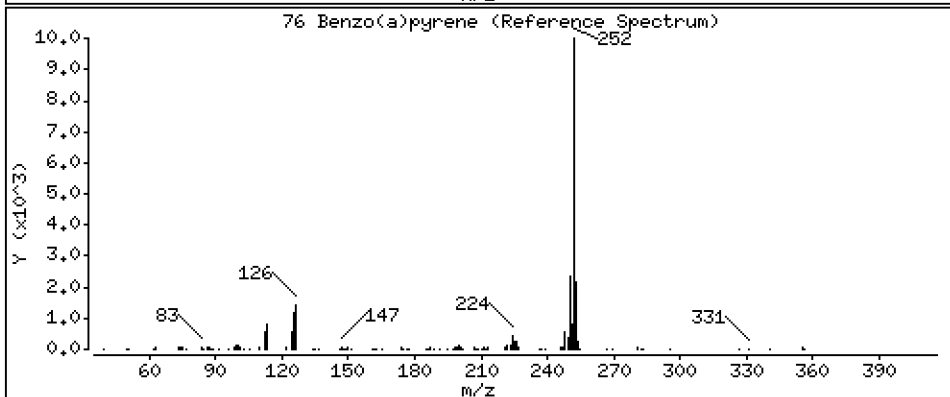
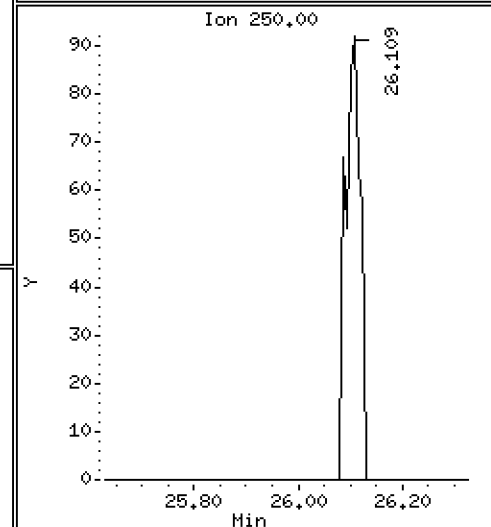
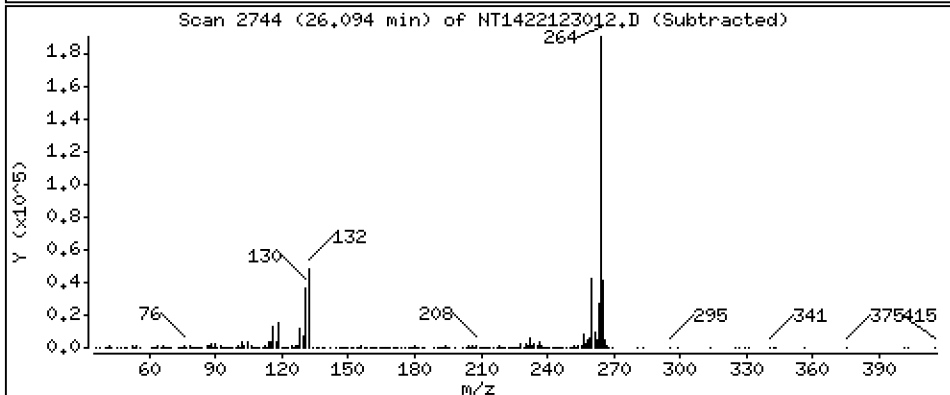
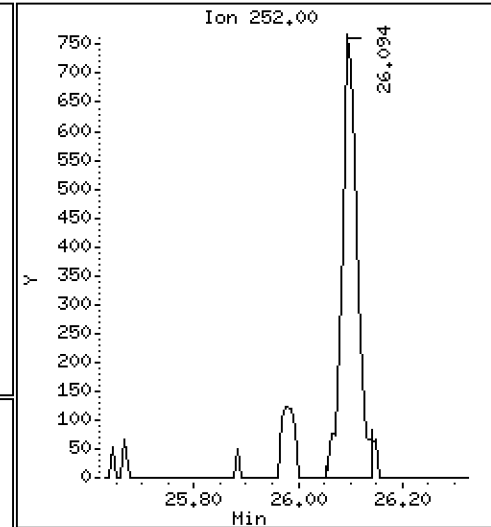
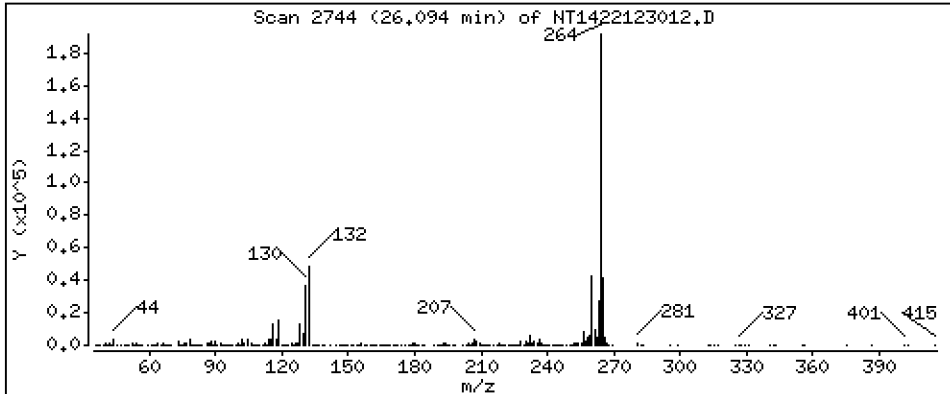
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,01457 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

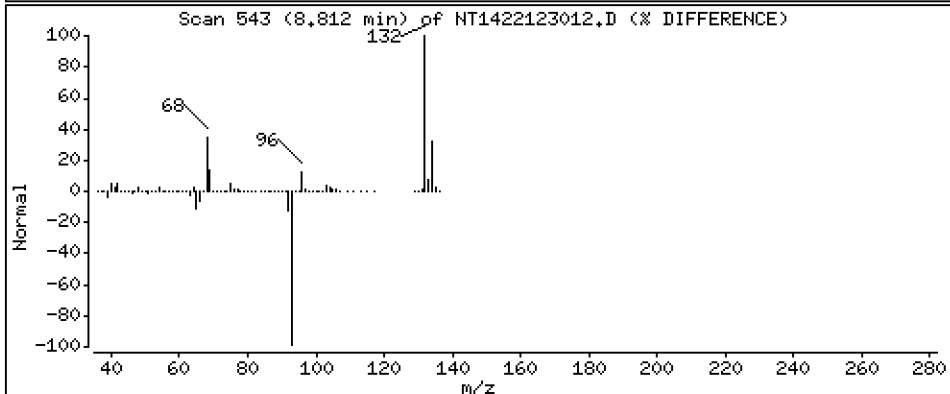
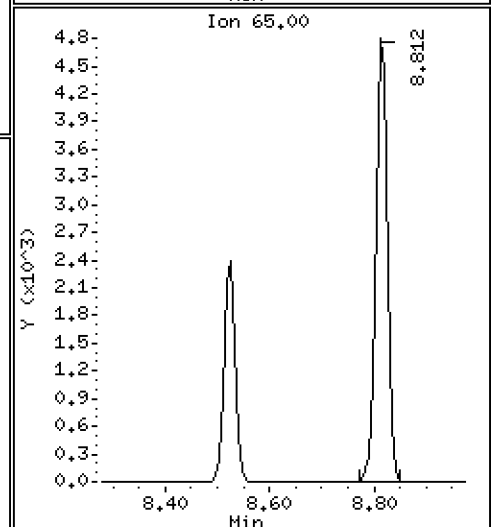
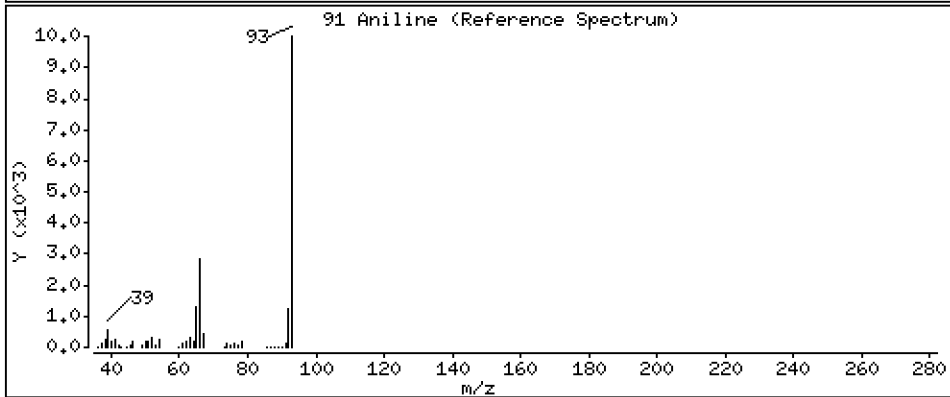
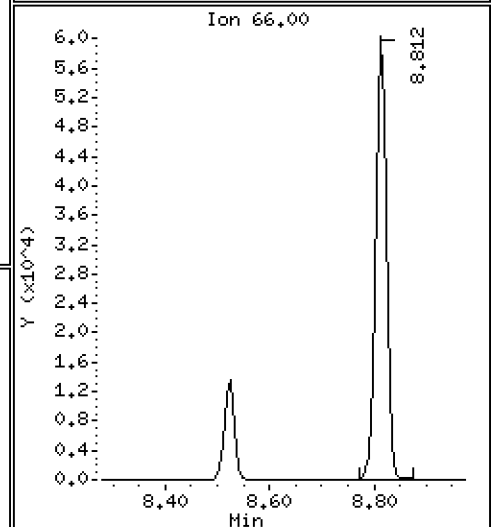
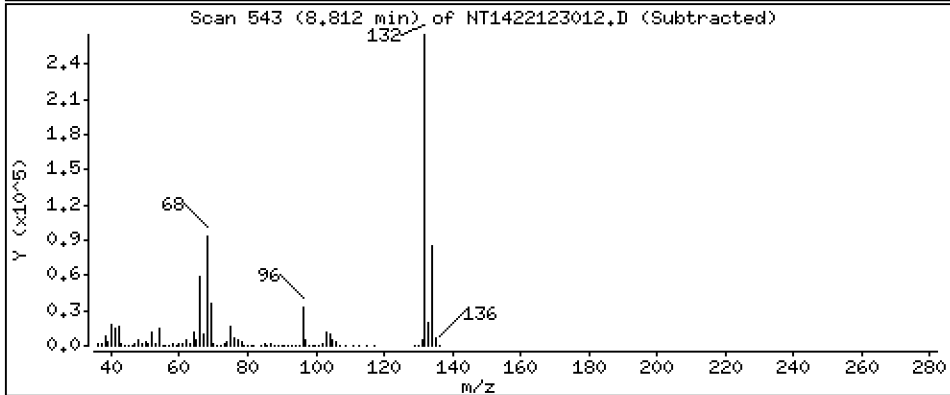
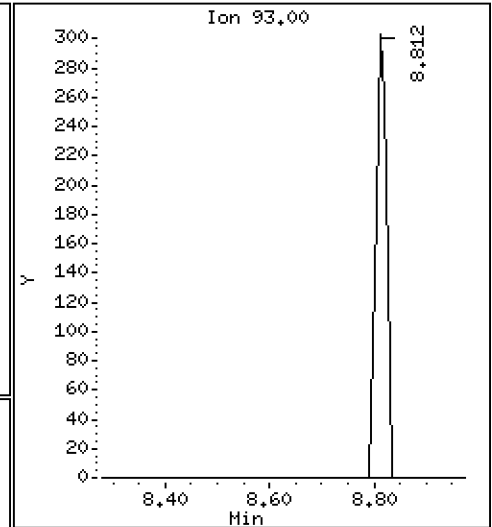
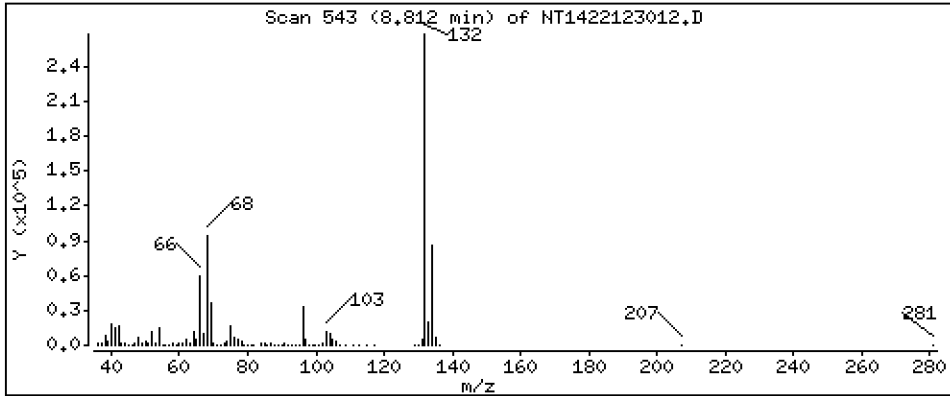
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,005926 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

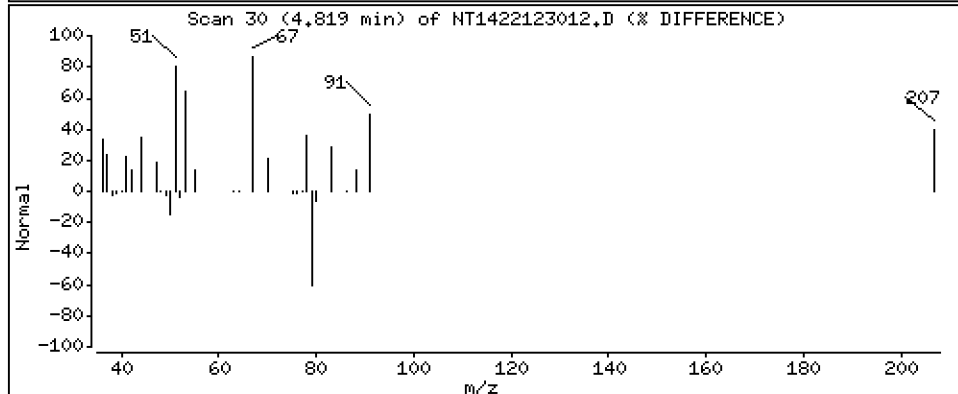
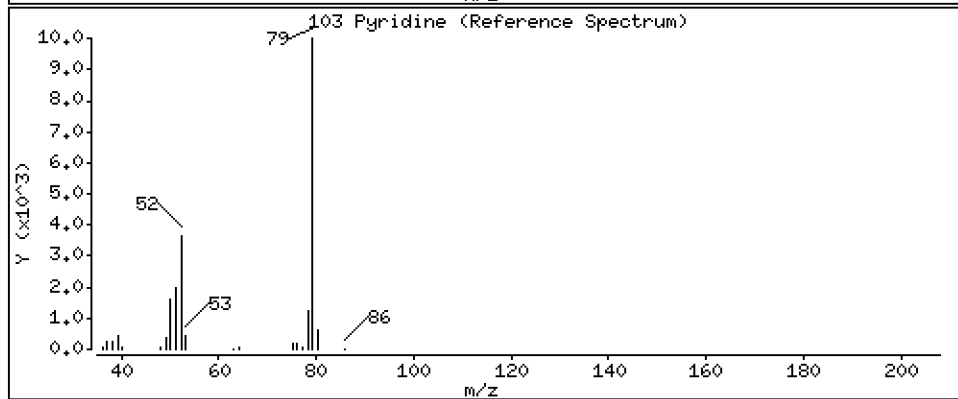
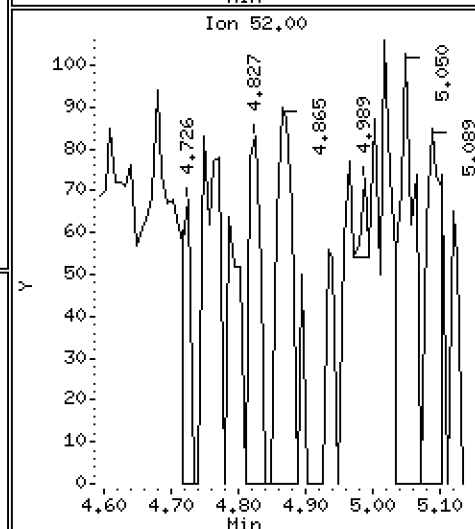
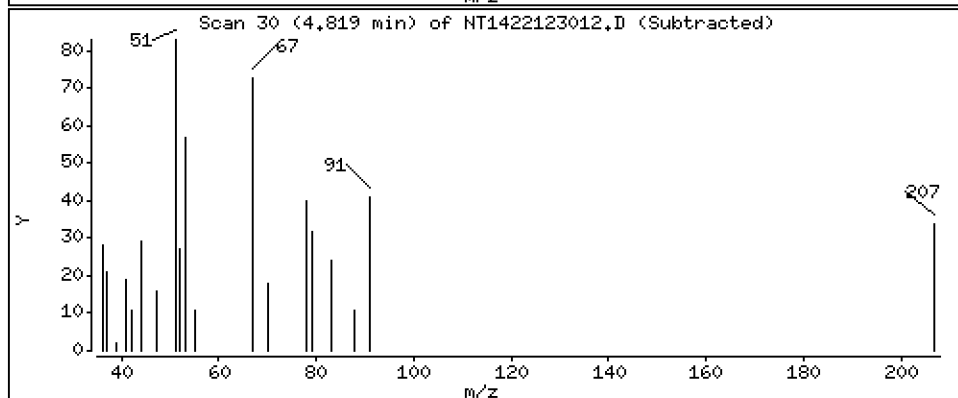
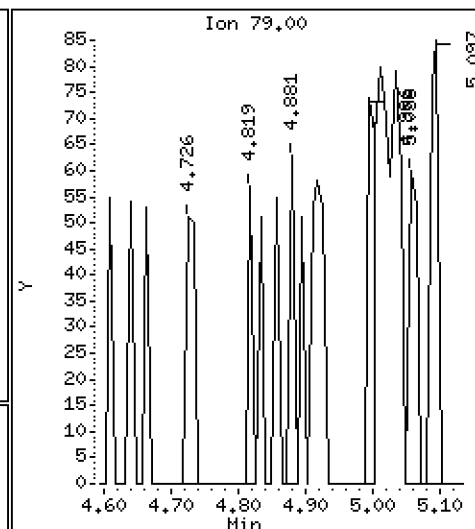
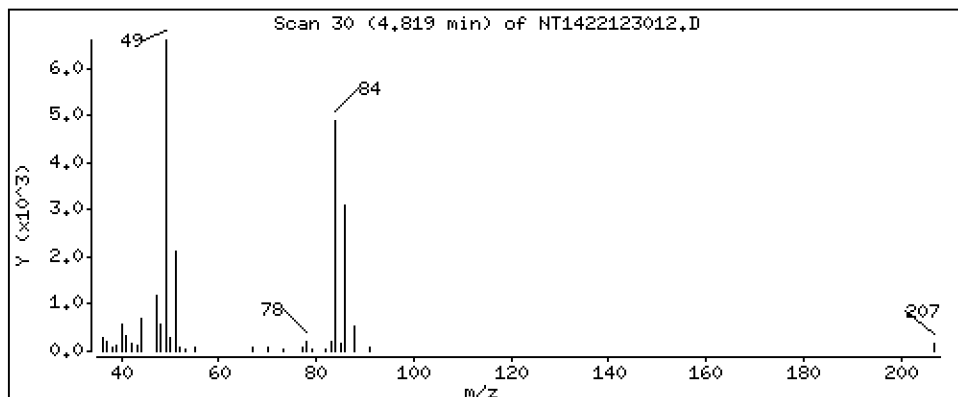
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,0002125 ug/mL



Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

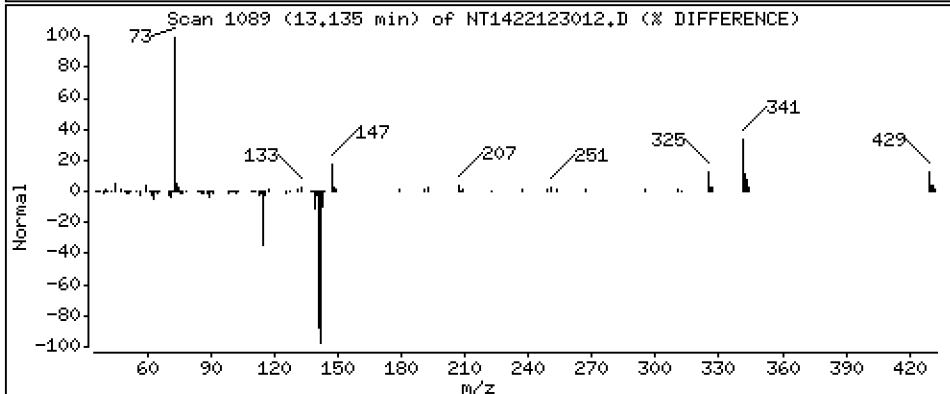
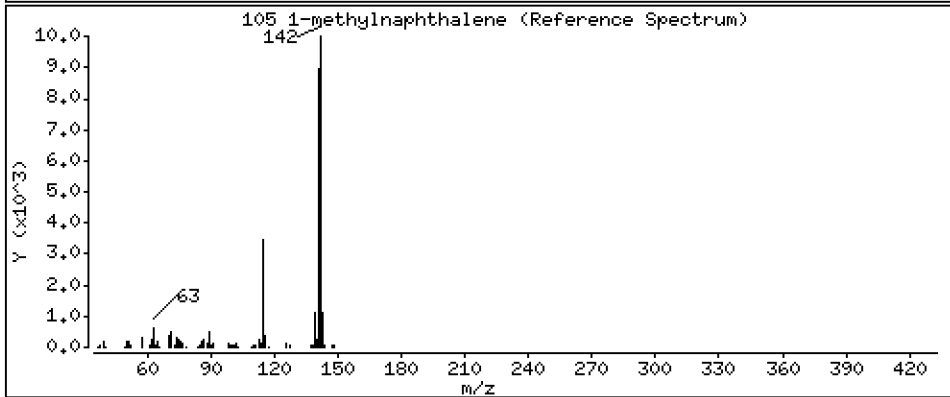
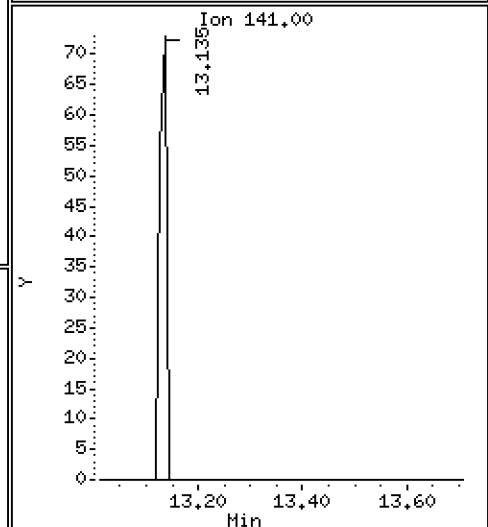
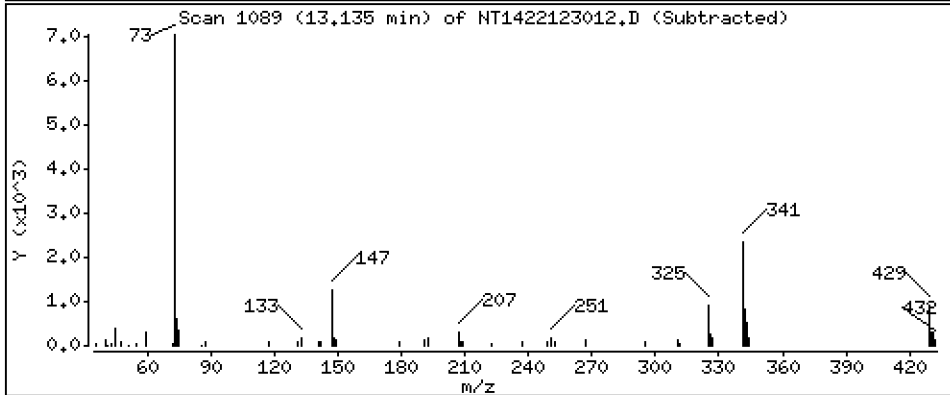
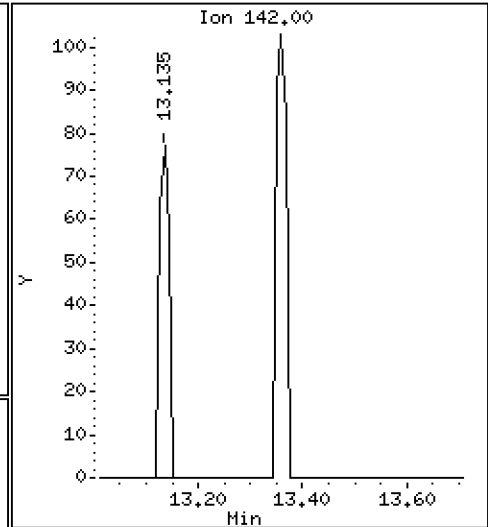
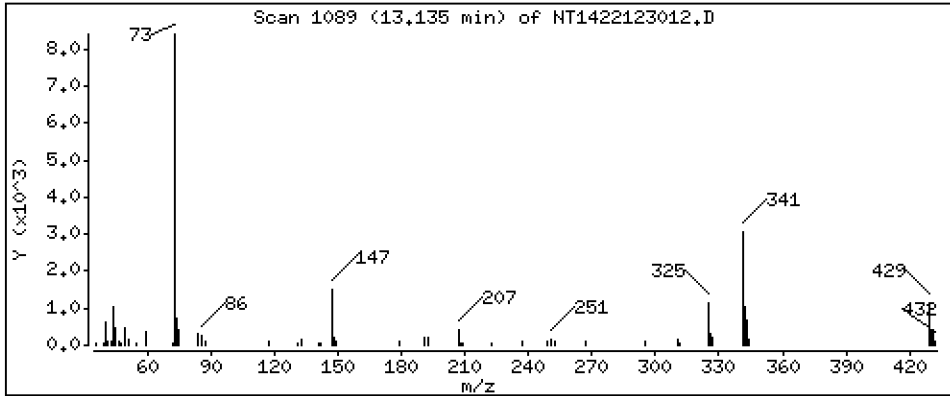
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,0008083 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D
 Lab Smp Id: SKL0355-ICB1
 Inj Date : 30-DEC-2022 14:08 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-ICB1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 31-Dec-2022 11:40 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.934	6.935	(0.755)	370869	6.63357	6.634
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	467490	6.76620	6.766
3 Phenol	94		8.541	8.542	(0.930)	202	0.00257	0.002573
\$ 5 2-Chlorophenol-d4	132		8.812	8.812	(0.960)	403584	6.95517	6.955
4 Bis(2-Chloroethyl)ether	93		8.812	8.720	(0.960)	453	0.00838	0.008376
6 2-Chlorophenol	128		Compound Not Detected.					
7 1,3-Dichlorobenzene	146		Compound Not Detected.					
* 8 1,4-Dichlorobenzene-d4	152		9.183	9.184	(1.000)	174509	4.00000	
9 1,4-Dichlorobenzene	146		Compound Not Detected.					
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	176910	4.46069	4.461
12 1,2-Dichlorobenzene	146		Compound Not Detected.					
11 Benzyl alcohol	108		9.548	9.448	(1.040)	1528	0.04372	0.04372
14 2,2'-oxybis(1-Chloropropane)	121		Compound Not Detected.					
13 2-Methylphenol	108		Compound Not Detected.					
17 Hexachloroethane	117		Compound Not Detected.					
16 N-Nitroso-di-n-propylamine	70		10.278	10.014	(1.119)	31797	0.91498	0.9150
15 4-Methylphenol	108		Compound Not Detected.					
\$ 18 Nitrobenzene-d5	82		10.278	10.278	(0.879)	248621	4.58647	4.586
19 Nitrobenzene	77		Compound Not Detected.					
20 Isophorone	82		Compound Not Detected.					
21 2-Nitrophenol	139		Compound Not Detected.					
22 2,4-Dimethylphenol	107		Compound Not Detected.					
23 Bis(2-Chloroethoxy)methane	93		Compound Not Detected.					
24 Benzoic acid	105		Compound Not Detected.					
25 2,4-Dichlorophenol	162		Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180		Compound Not Detected.					
* 27 Naphthalene-d8	136		11.688	11.689	(1.000)	641934	4.00000	
28 Naphthalene	128		11.735	11.728	(1.004)	211	0.00134	0.001336
29 4-Chloroaniline	127		Compound Not Detected.					
30 Hexachlorobutadiene	225		Compound Not Detected.					
31 4-Chloro-3-methylphenol	107		Compound Not Detected.					
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	90	8e-004	0.0007767
33 Hexachlorocyclopentadiene	237		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196							
35 2,4,5-Trichlorophenol	196							
\$ 36 2-Fluorobiphenyl	172		13.916	13.917	(0.908)	519279	4.60432	4.604
37 2-Chloronaphthalene	162							
38 2-Nitroaniline	65							
39 Dimethylphthalate	163							
40 Acenaphthylene	152							
41 2,6-Dinitrotoluene	165							
* 42 Acenaphthene-d10	164		15.325	15.325	(1.000)	335436	4.00000	
43 3-Nitroaniline	138							
44 Acenaphthene	153							
45 2,4-Dinitrophenol	184							
46 Dibenzofuran	168							
47 4-Nitrophenol	109							
48 2,4-Dinitrotoluene	165							
50 Diethylphthalate	149							
49 Fluorene	166		16.438	16.431	(1.073)	191	0.00132	0.001319
51 4-Chlorophenyl-phenylether	204							
52 4-Nitroaniline	138							
53 4,6-Dinitro-2-methylphenol	198							
54 N-Nitrosodiphenylamine	169		16.962	16.670	(0.923)	3405	0.03543	0.03543
\$ 55 2,4,6-Tribromophenol	330		16.962	16.963	(1.107)	92025	5.68327	5.683
56 4-Bromophenyl-phenylether	248							
57 Hexachlorobenzene	284							
58 Pentachlorophenol	266							
* 59 Phenanthrene-d10	188		18.369	18.369	(1.000)	560033	4.00000	
60 Phenanthrene	178							
61 Anthracene	178							
62 Carbazole	167							
63 Di-n-butylphthalate	149							
64 Fluoranthene	202							
65 Pyrene	202		21.502	21.224	(0.919)	1588	0.01055	0.01055
\$ 66 Terphenyl-d14	244		21.502	21.503	(0.919)	509644	4.77642	4.776
67 Butylbenzylphthalate	149							
68 Benzo(a)anthracene	228							
* 69 Chrysene-d12	240		23.407	23.407	(1.000)	444498	4.00000	
70 3,3'-Dichlorobenzidine	252							
71 Chrysene	228							
72 bis(2-Ethylhexyl)phthalate	149		23.384	23.446	(0.957)	678	0.01128	0.01128
* 134 Di-n-octylphthalate-d4	153		24.436	24.437	(1.000)	541261	4.00000	
73 Di-n-octylphthalate	149		24.436	24.445	(1.000)	803	0.00618	0.006180
74 Benzo(b)fluoranthene	252							
75 Benzo(k)fluoranthene	252							
76 Benzo(a)pyrene	252		26.093	25.978	(1.000)	1610	0.01457	0.01457
* 77 Perylene-d12	264		26.101	26.102	(1.000)	423100	4.00000	
78 Indeno(1,2,3-cd)pyrene	276							
79 Dibenzo(a,h)anthracene	278							
80 Benzo(g,h,i)perylene	276							
90 N-Nitrosodimethylamine	74							
91 Aniline	93		8.812	8.627	(0.960)	453	0.00593	0.005926
93 Benzidine	184							
103 Pyridine	79		4.818	4.788	(0.525)	26	2e-004	0.0002125
105 1-methylnaphthalene	142		13.135	13.360	(1.124)	90	8e-004	0.0008083
111 Azobenzene (1,2-DP-Hydrazine)	77							

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123012.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICB1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	174509	15.56
27 Naphthalene-d8	553510	276755	1107020	641934	15.98
42 Acenaphthene-d10	305411	152706	610822	335436	9.83
59 Phenanthrene-d10	491708	245854	983416	560033	13.90
69 Chrysene-d12	424740	212370	849480	444498	4.65
134 Di-n-octylphthala	684951	342476	1369902	541261	-20.98
77 Perylene-d12	395150	197575	790300	423100	7.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	-0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	-0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	-0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	-0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123012.D

Lab ID: SKL0355-ICB1
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 14:08

RT CO-ELUTION COMPOUNDS

13.135 1-methylnaphthalene and 2-Methylnaphthalene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.960	0.949	0.0101	Bis(2-Chloroethyl)ether
1.040	1.029	0.0110	Benzyl alcohol
1.119	1.090	0.0287	N-Nitroso-di-n-propylamine
0.923	0.907	0.0160	N-Nitrosodiphenylamine
0.919	0.907	0.0119	Pyrene
0.960	0.939	0.0202	Aniline
1.124	1.143	-0.0192	1-methylnaphthalene

RRT check based on Ccal File: NT1422123007.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV1

Sequence: SKL0355

Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	14.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.5	50.00
2-Chlorophenol	0.20000	0.2	17.8	50.00
1,3-Dichlorobenzene	0.20000	0.2	22.8	50.00
1,4-Dichlorobenzene	0.20000	0.2	24.3	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.6	50.00
Benzyl Alcohol	0.20000	0.2	-18.9	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	11.8	50.00
2-Methylphenol	0.20000	0.2	17.1	50.00
Hexachloroethane	0.20000	0.2	-12.3	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	10.4	50.00
4-Methylphenol	0.20000	0.2	6.0	50.00
Nitrobenzene	0.20000	0.2	12.7	50.00
Isophorone	0.20000	0.2	-1.7	50.00
2-Nitrophenol	0.20000	0.2	1.4	50.00
2,4-Dimethylphenol	0.40000	0.5	13.9	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	17.9	50.00
2,4-Dichlorophenol	0.40000	0.4	3.3	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	21.1	50.00
Naphthalene	0.20000	0.2	18.9	50.00
Benzoic acid	0.80000	0.2	-78.2	50.00
4-Chloroaniline	0.40000	0.4	1.5	50.00
Hexachlorobutadiene	0.20000	0.2	11.2	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	0.3	50.00
2-Methylnaphthalene	0.20000	0.2	11.5	50.00
Hexachlorocyclopentadiene	0.40000	0.02	-94.6	50.00
2,4,6-Trichlorophenol	0.40000	0.4	-6.3	50.00
2,4,5-Trichlorophenol	0.40000	0.4	7.9	50.00
2-Chloronaphthalene	0.20000	0.2	18.6	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV1

Sequence: SKL0355

Standard ID: K011105

2-Nitroaniline	0.40000	0.4	-0.7	50.00
Acenaphthylene	0.20000	0.2	12.8	50.00
Dimethylphthalate	0.20000	0.2	11.6	50.00
2,6-Dinitrotoluene	0.40000	0.4	-12.1	50.00
Acenaphthene	0.20000	0.2	17.6	50.00
3-Nitroaniline	0.40000	0.3	-15.7	50.00
2,4-Dinitrophenol	0.80000	0.005	-99.3	50.00
Dibenzofuran	0.20000	0.2	20.2	50.00
4-Nitrophenol	0.40000	0.2	-40.6	50.00
2,4-Dinitrotoluene	0.40000	0.3	-24.5	50.00
Fluorene	0.20000	0.2	13.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	6.9	50.00
Diethyl phthalate	0.20000	0.2	13.9	50.00
4-Nitroaniline	0.40000	0.3	-21.8	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.2	-74.8	50.00
N-Nitrosodiphenylamine	0.20000	0.2	21.1	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	13.7	50.00
Hexachlorobenzene	0.20000	0.2	14.5	50.00
Pentachlorophenol	0.40000	0.08	-80.8	50.00
Phenanthrene	0.20000	0.2	20.7	50.00
Anthracene	0.20000	0.2	9.1	50.00
Carbazole	0.20000	0.2	8.7	50.00
Di-n-Butylphthalate	0.20000	0.2	-4.7	50.00
Fluoranthene	0.20000	0.2	15.4	50.00
Pyrene	0.20000	0.2	10.6	50.00
Butylbenzylphthalate	0.20000	0.2	4.0	50.00
Benzo(a)anthracene	0.20000	0.2	20.8	50.00
3,3'-Dichlorobenzidine	0.60000	0.7	16.0	50.00
Chrysene	0.20000	0.2	20.7	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.2	9.3	50.00
Di-n-Octylphthalate	0.20000	0.2	21.0	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV1

Sequence: SKL0355

Standard ID: K011105

Benzofluoranthenes, Total	0.40000	0.5	27.2	50.00
Benzo(a)pyrene	0.20000	0.2	20.8	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-28.7	50.00
Dibenzo(a,h)anthracene	0.20000	0.1	-25.2	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-38.5	50.00
1-Methylnaphthalene	0.20000	0.2	15.9	50.00
2-Fluorophenol	0.30000	0.344	14.8	50.00
Phenol-d5	0.30000	0.307	2.4	50.00
2-Chlorophenol-d4	0.30000	0.332	10.7	50.00
1,2-Dichlorobenzene-d4	0.20000	0.241	20.5	50.00
Nitrobenzene-d5	0.20000	0.214	7.0	50.00
2-Fluorobiphenyl	0.20000	0.223	11.6	50.00
2,4,6-Tribromophenol	0.30000	0.212	-29.4	50.00
p-Terphenyl-d14	0.20000	0.218	8.8	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230B.B\NT1422123051.D

Date: 31-DEC-2022 14:29

Client ID:

Sample Info: SKL0355-LCW1

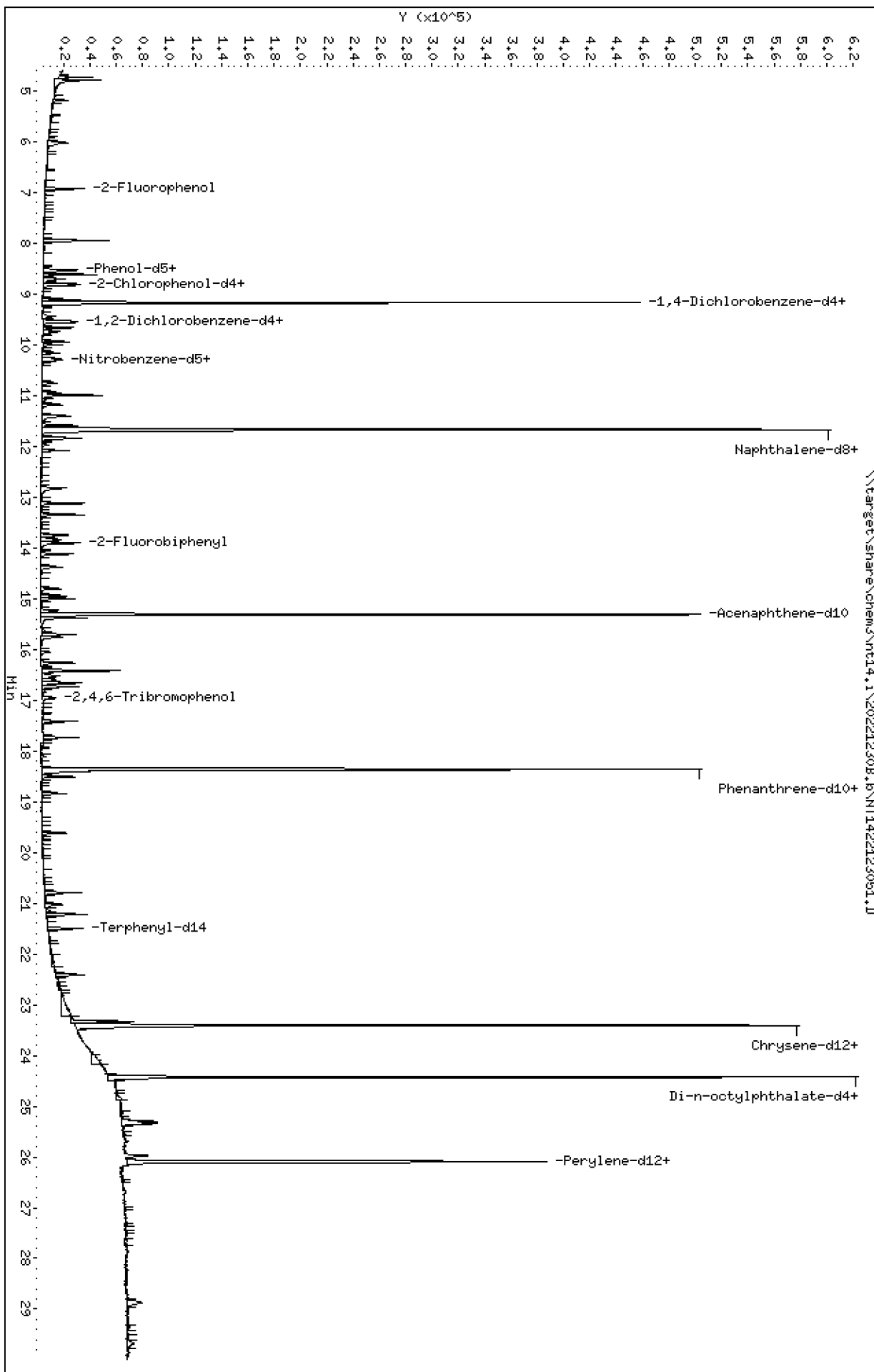
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

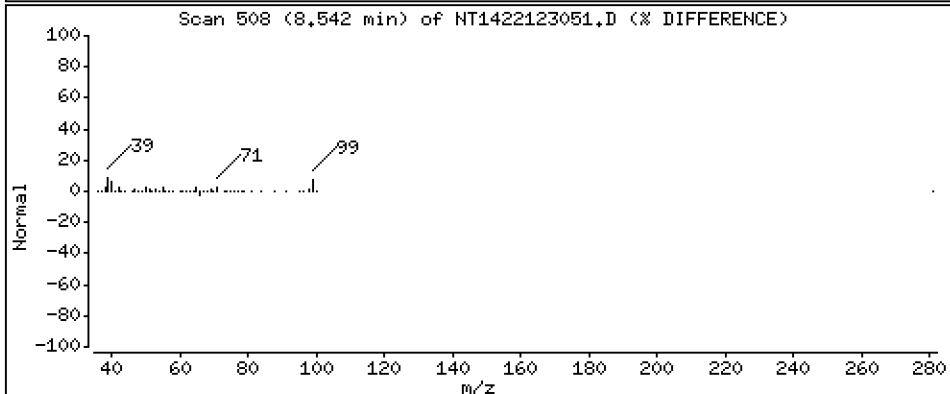
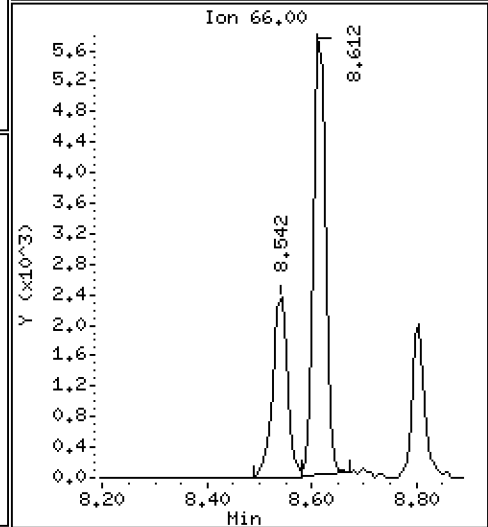
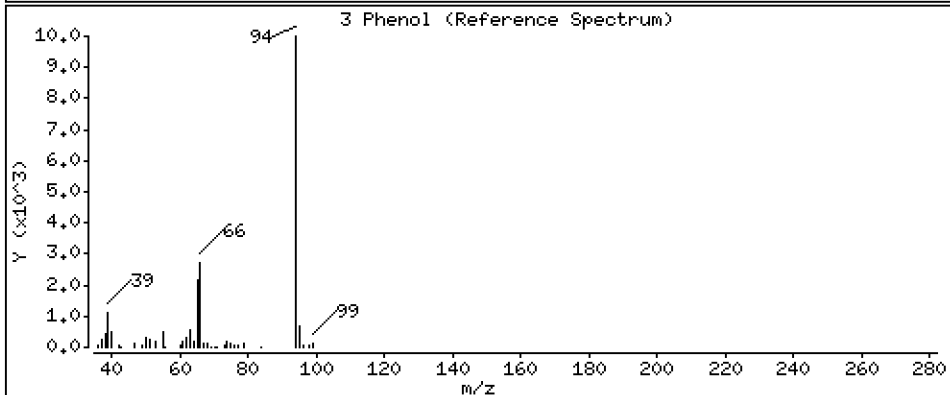
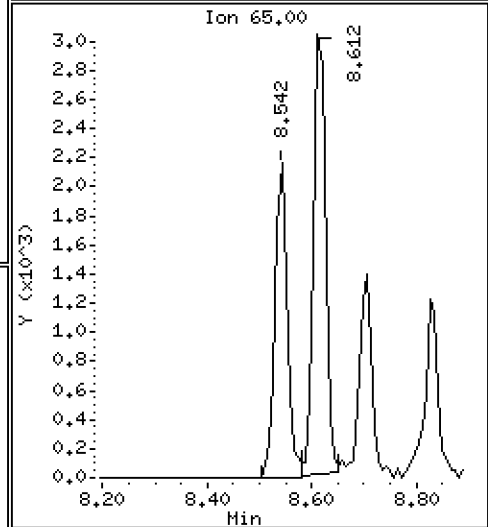
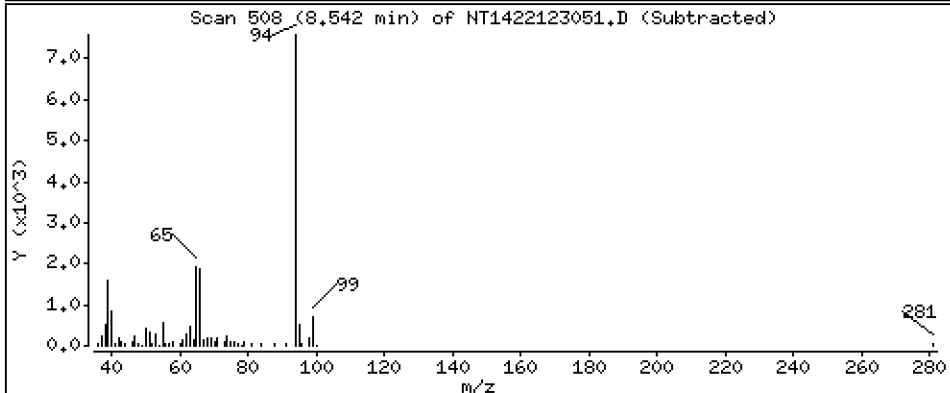
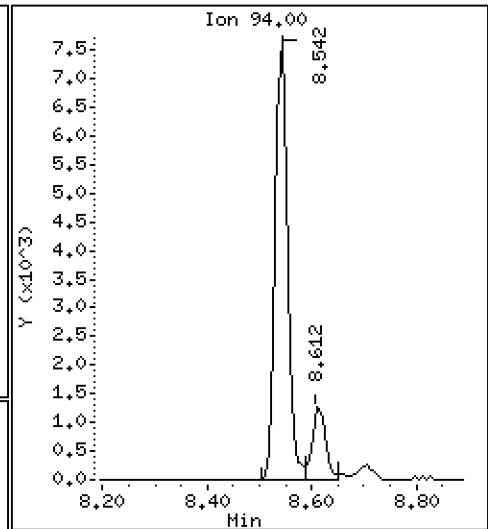
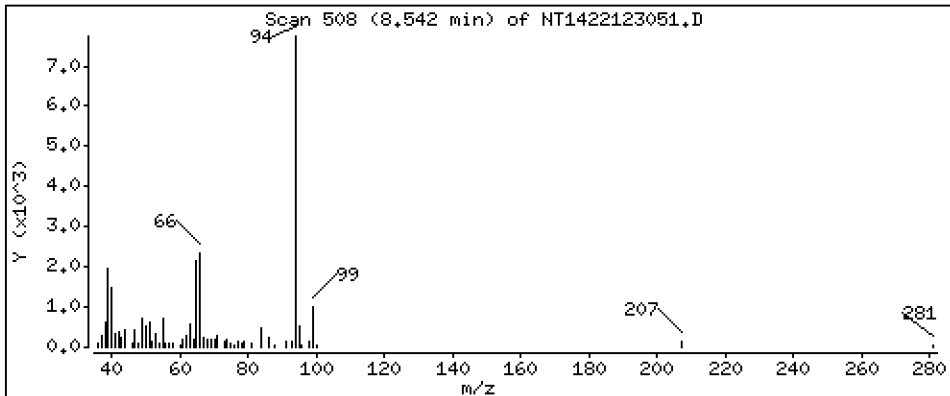
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2294 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

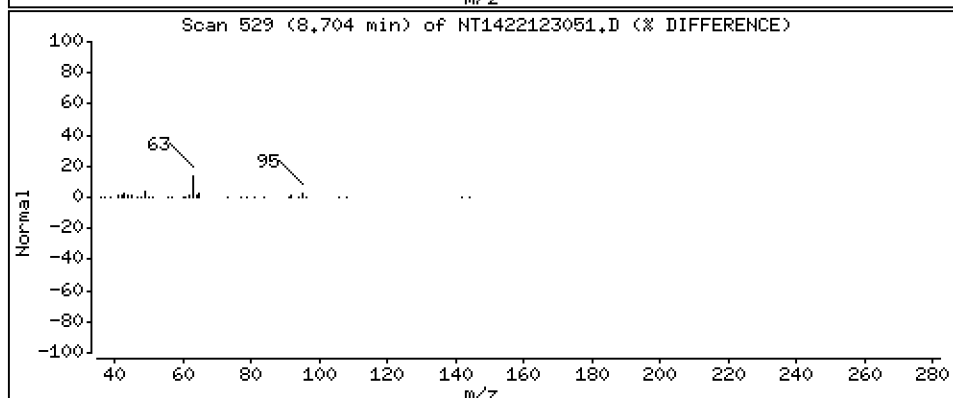
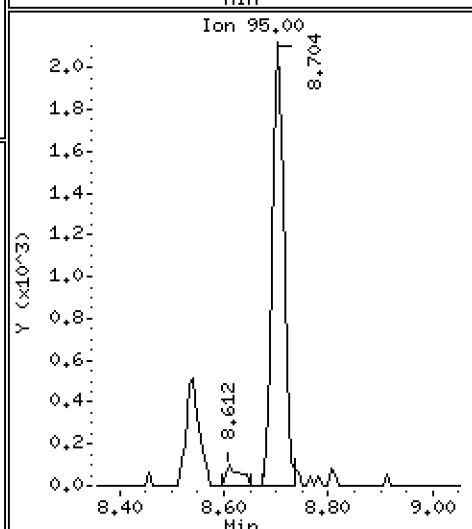
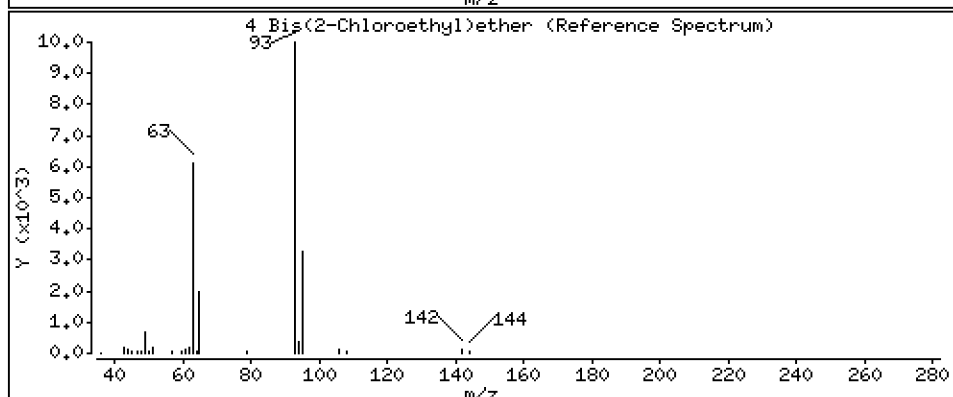
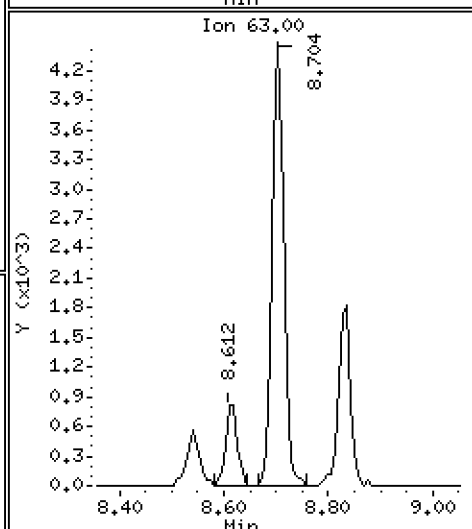
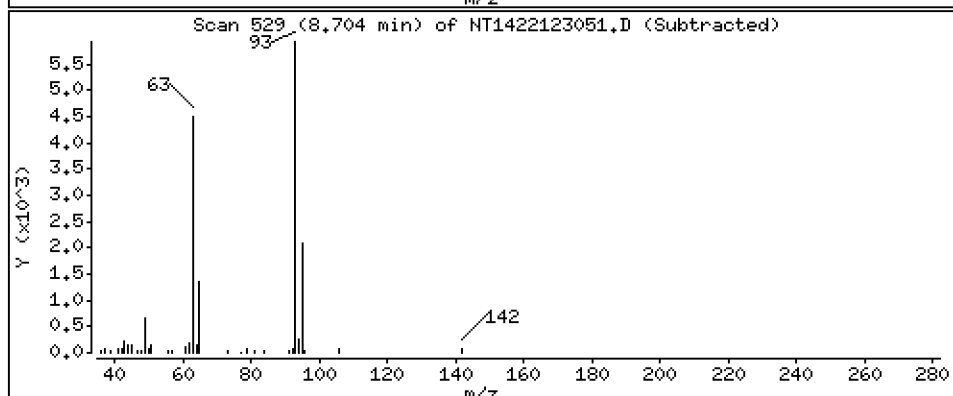
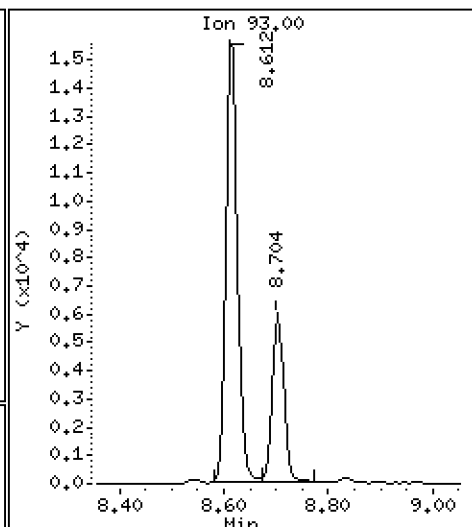
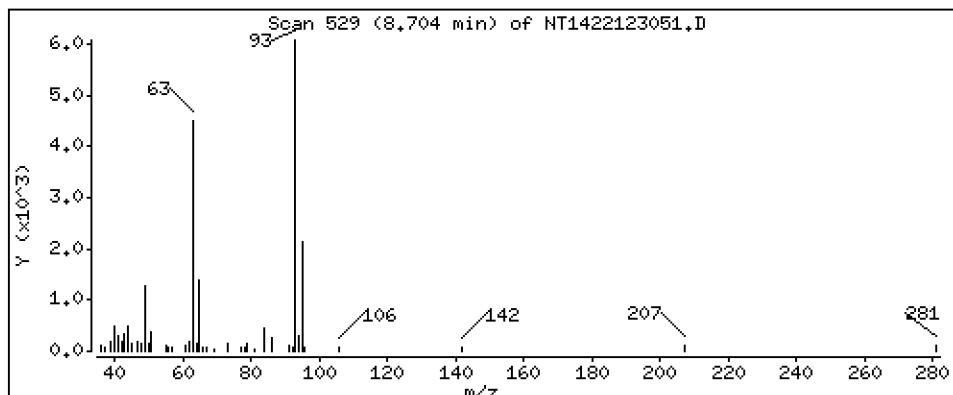
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2390 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

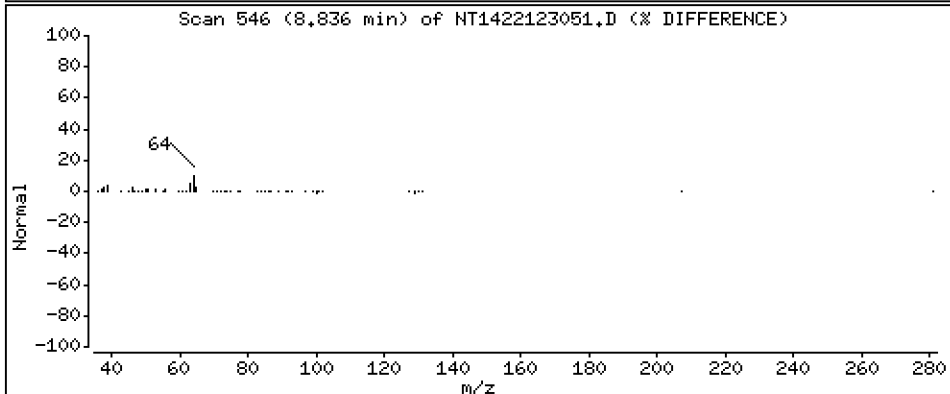
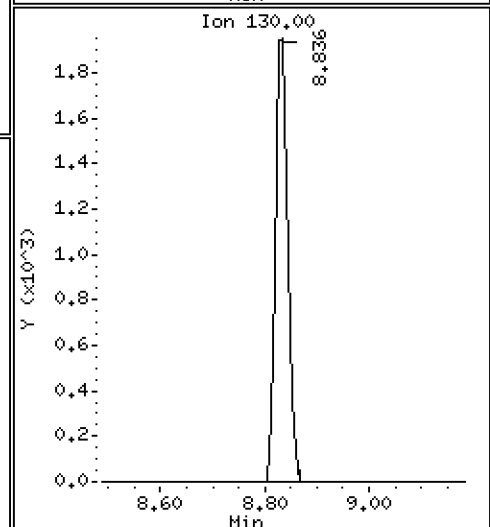
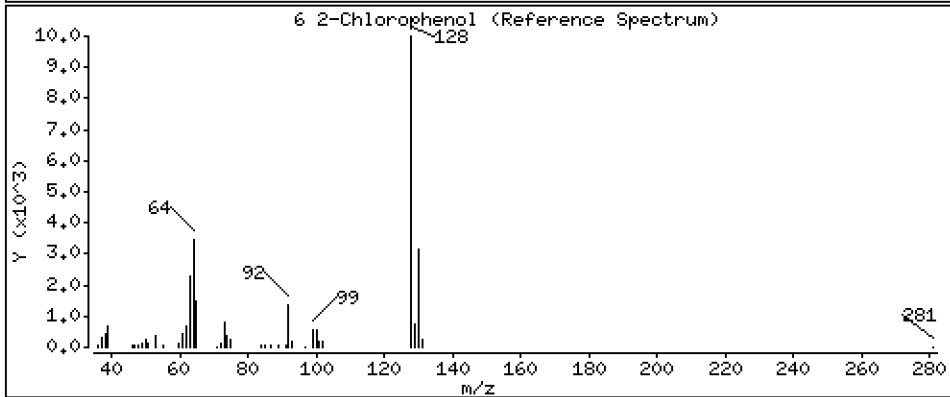
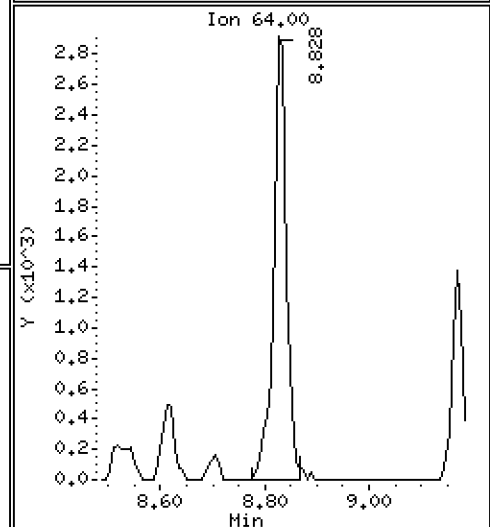
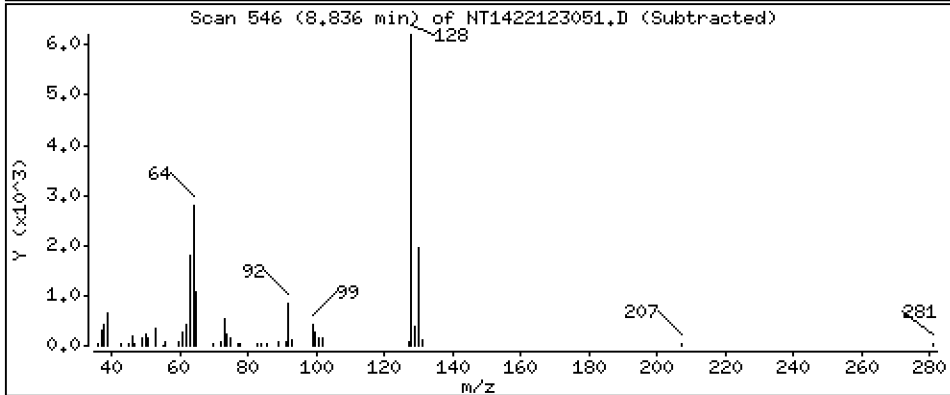
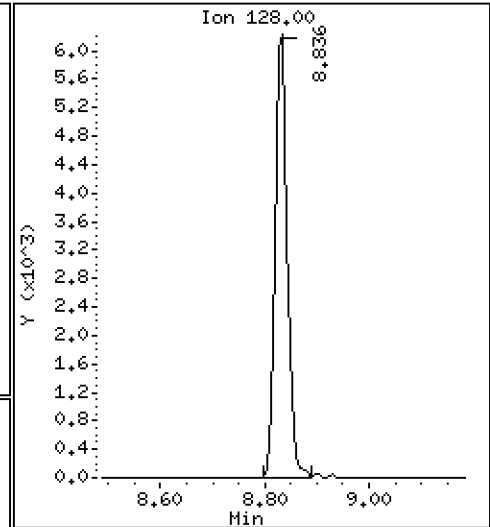
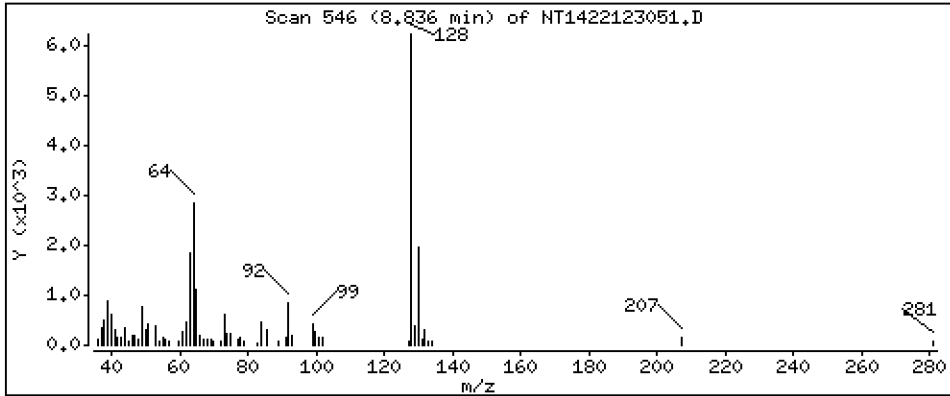
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2355 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

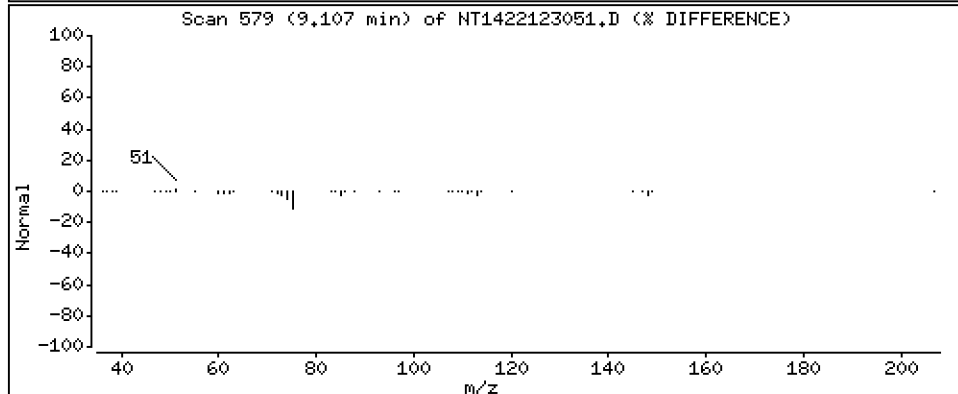
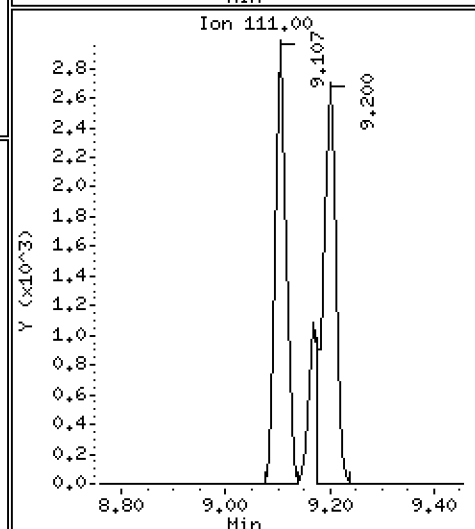
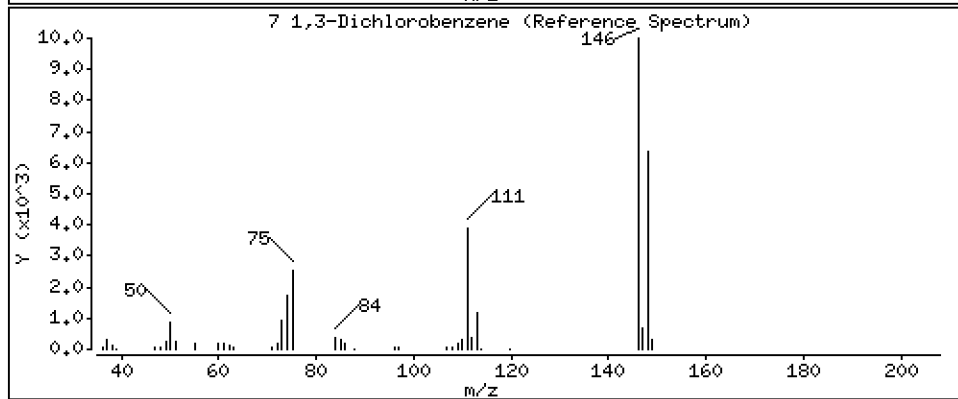
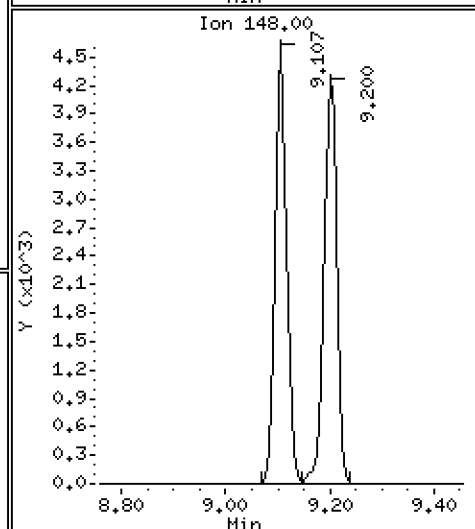
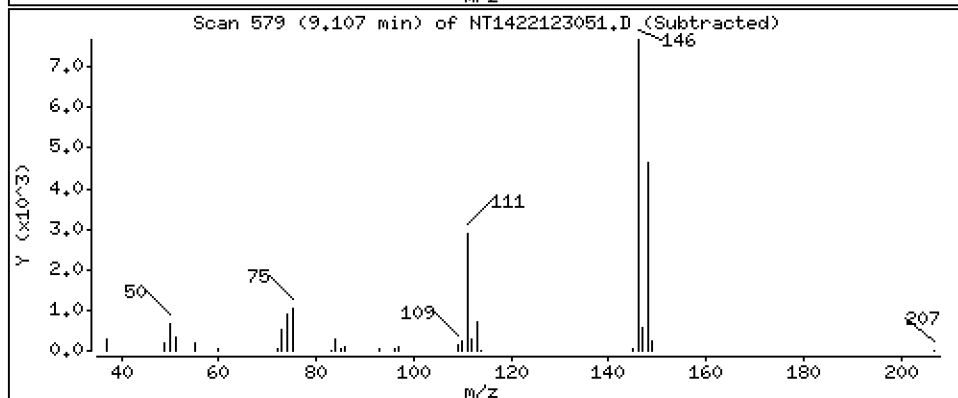
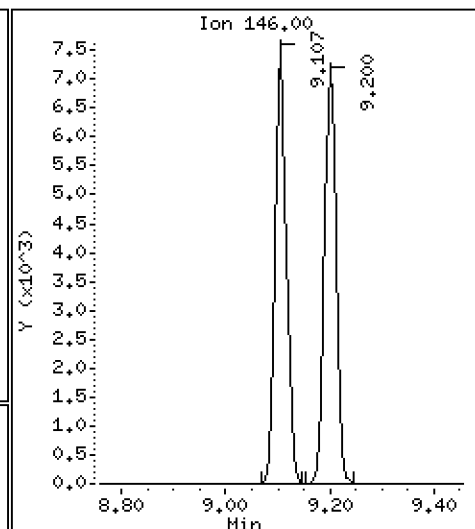
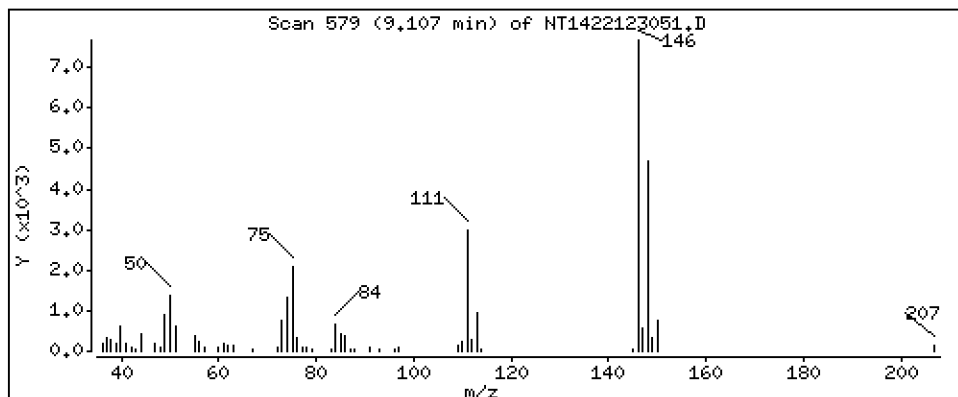
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2457 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

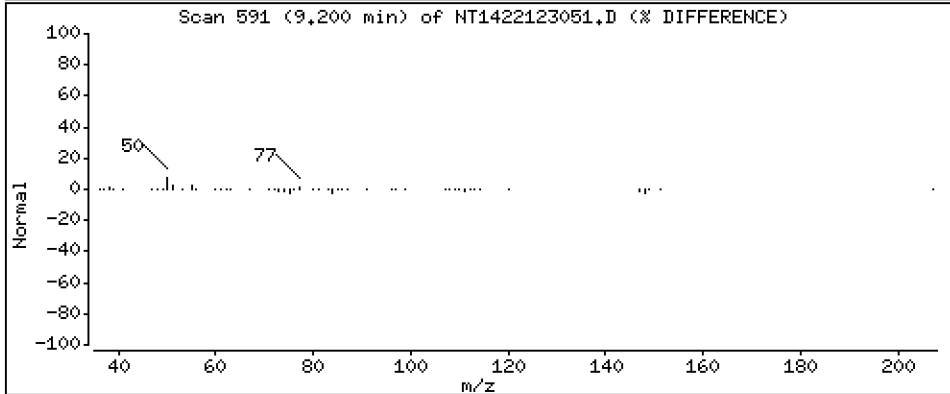
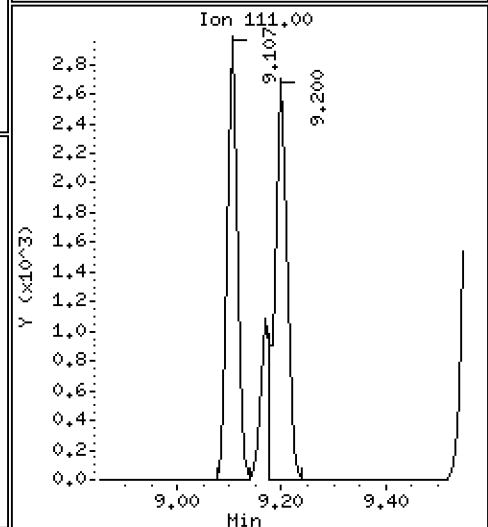
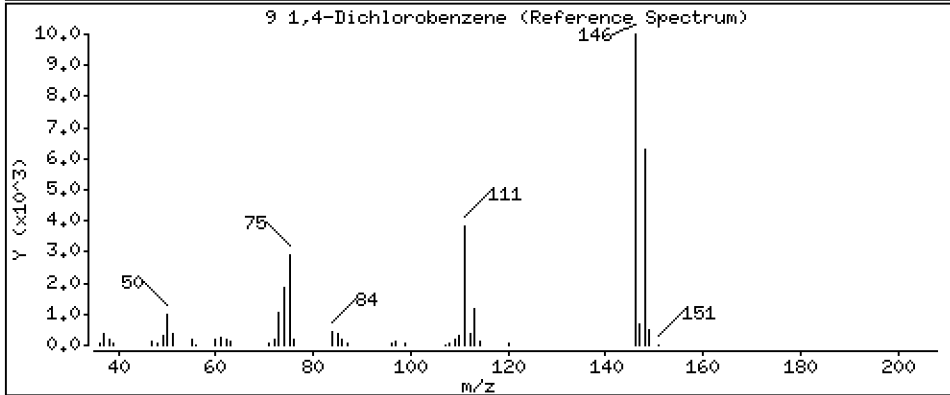
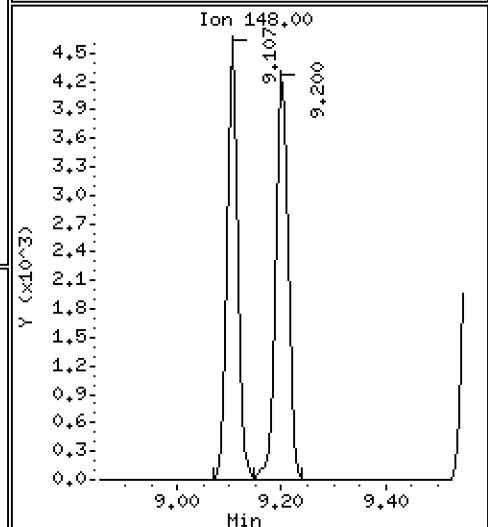
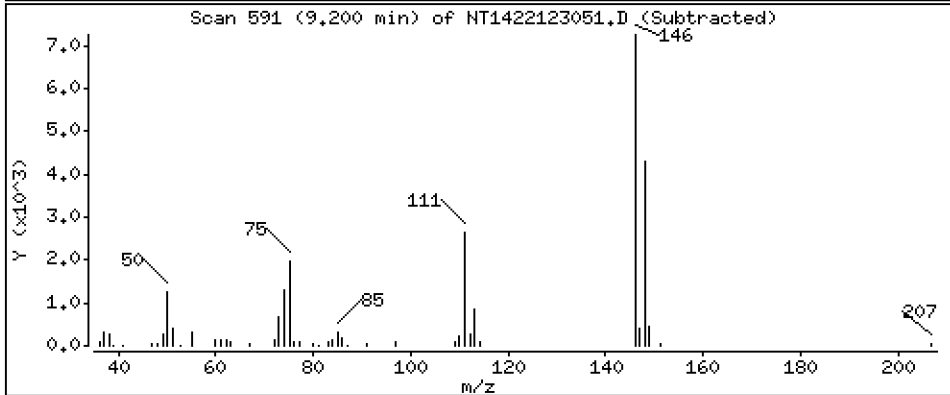
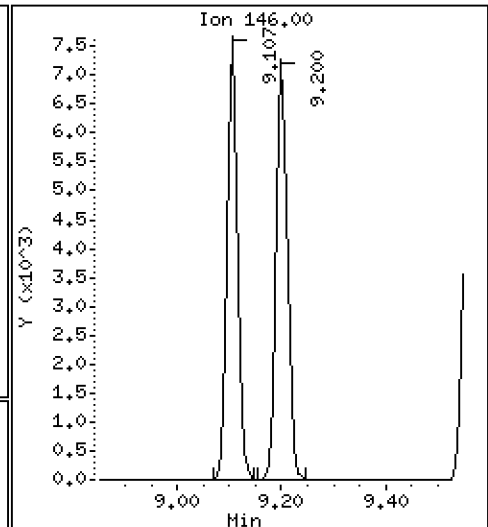
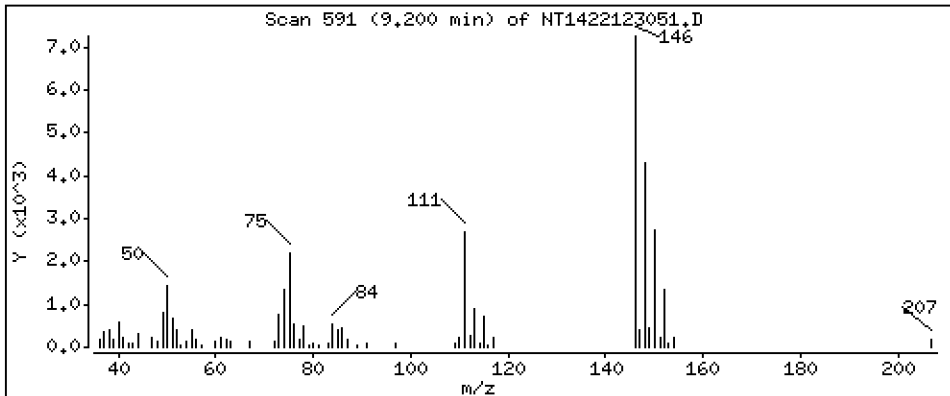
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2487 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

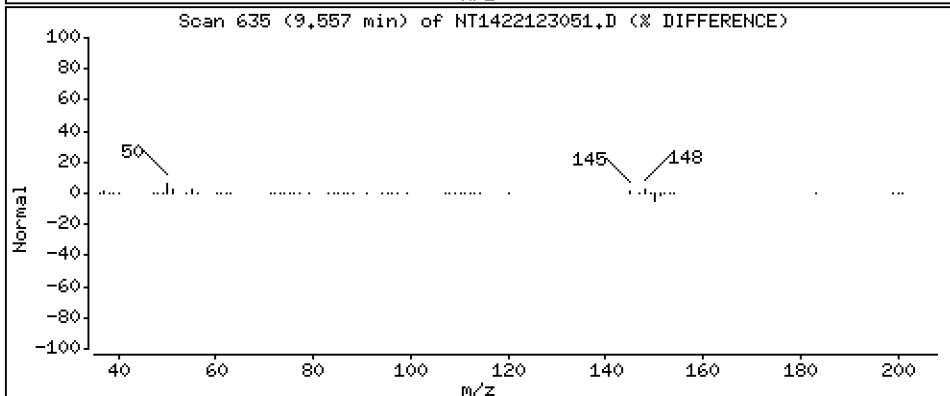
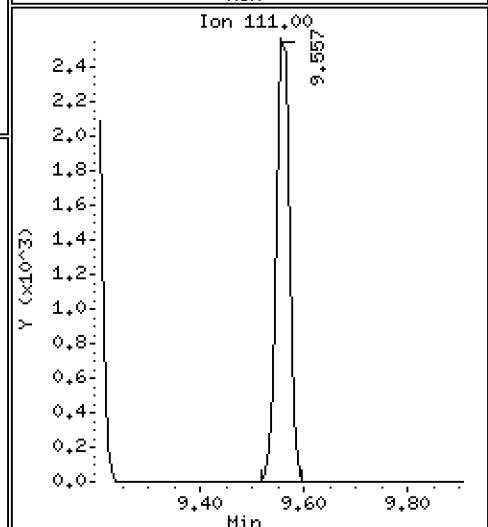
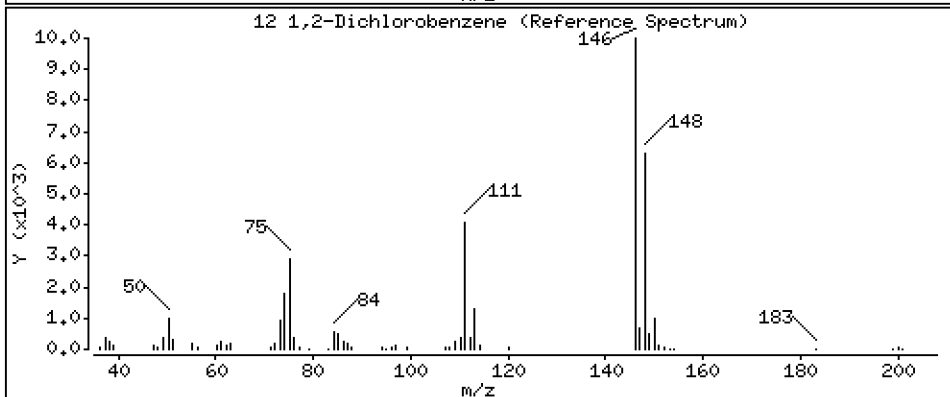
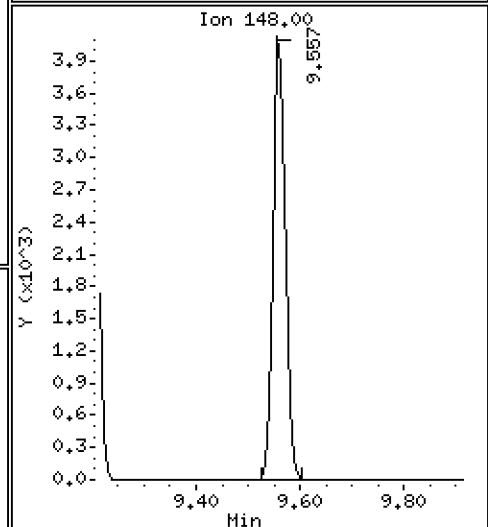
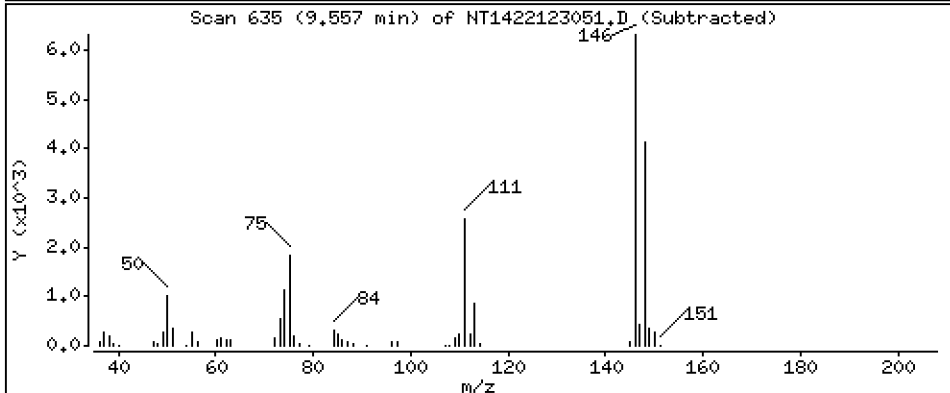
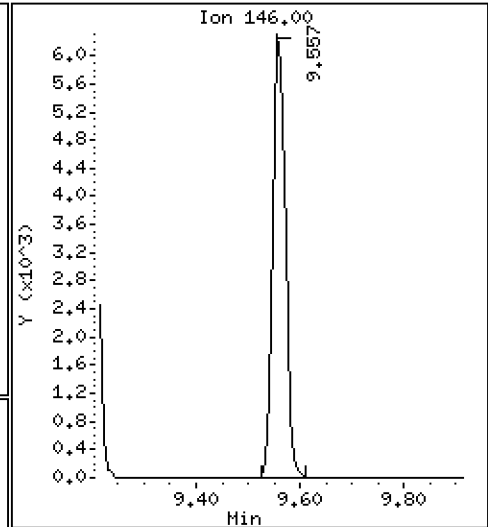
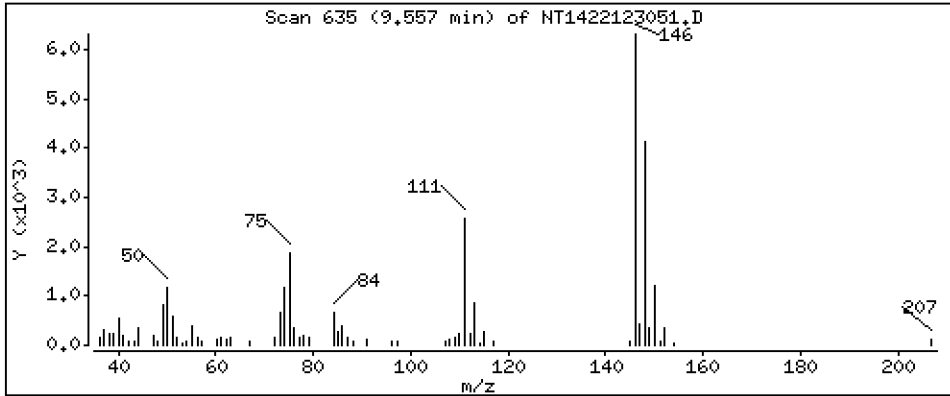
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.2432 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

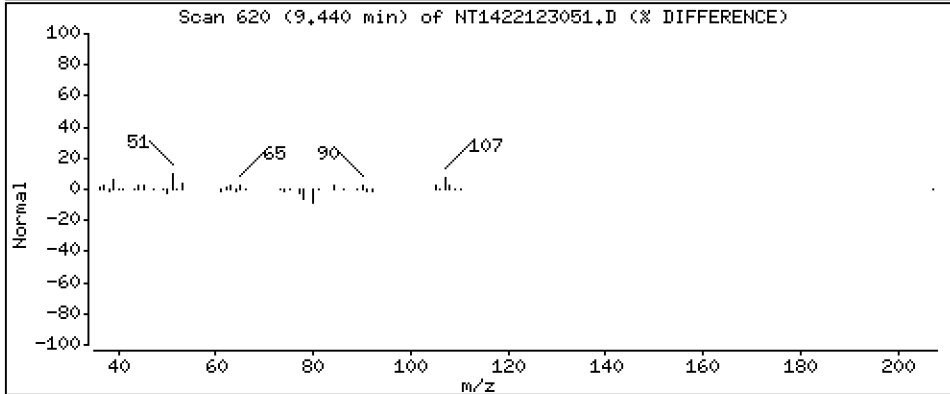
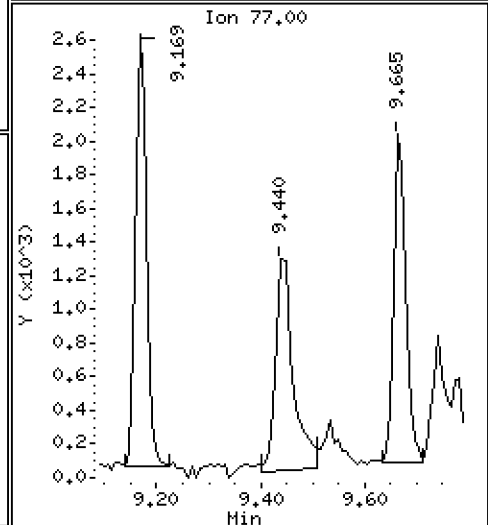
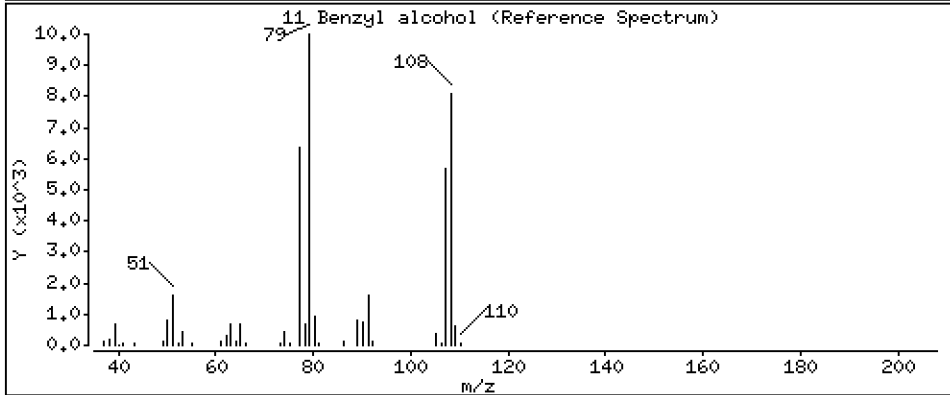
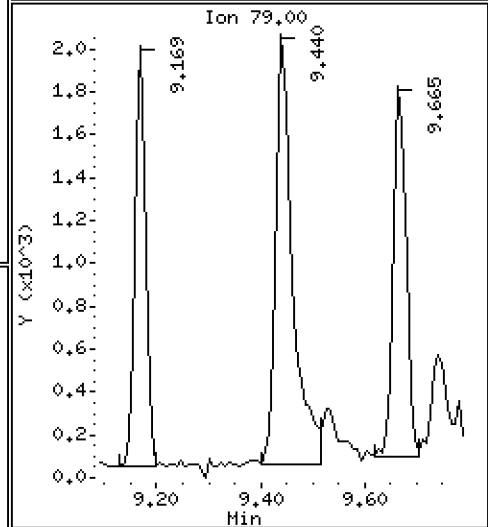
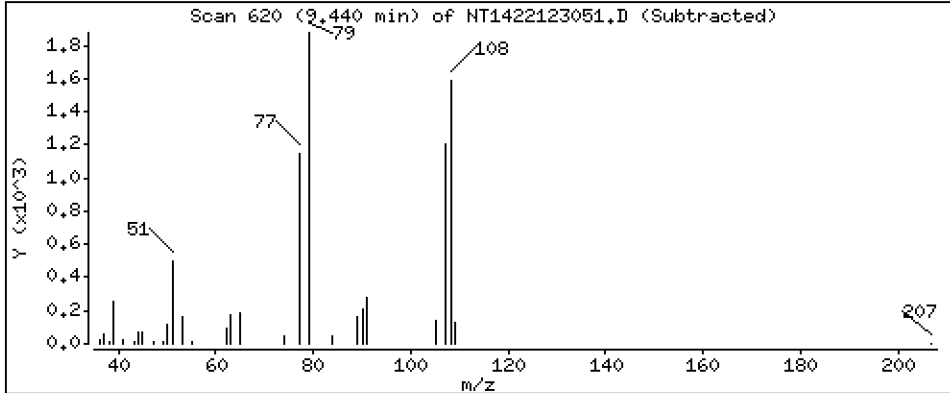
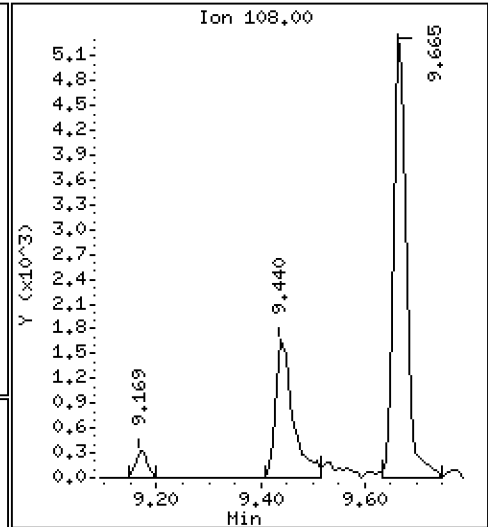
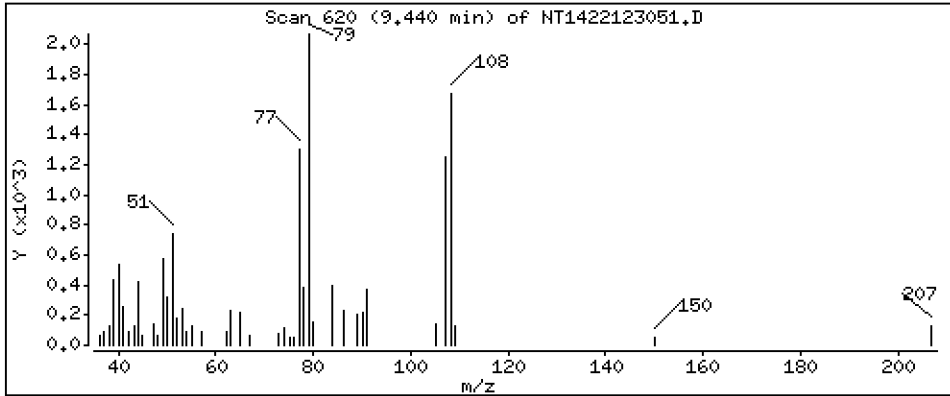
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1623 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

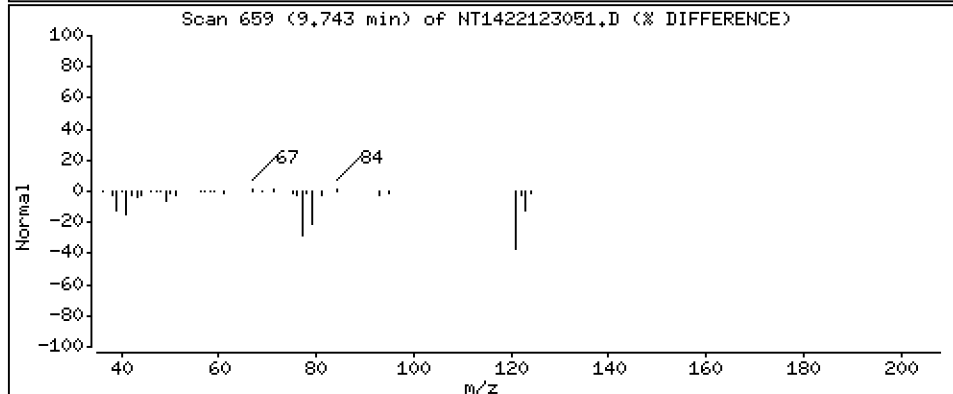
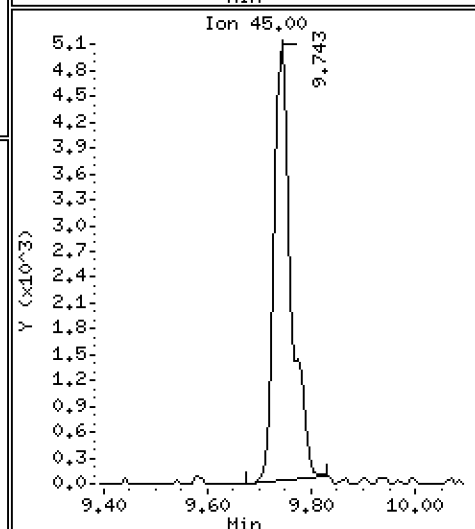
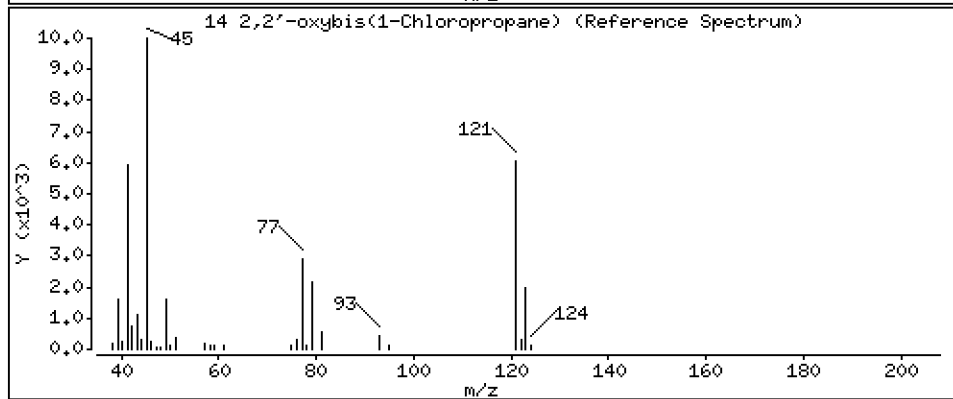
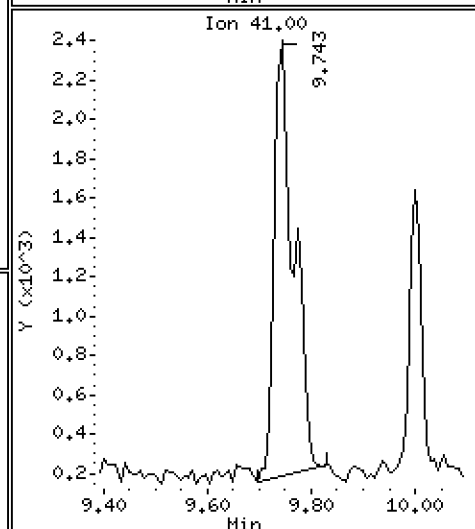
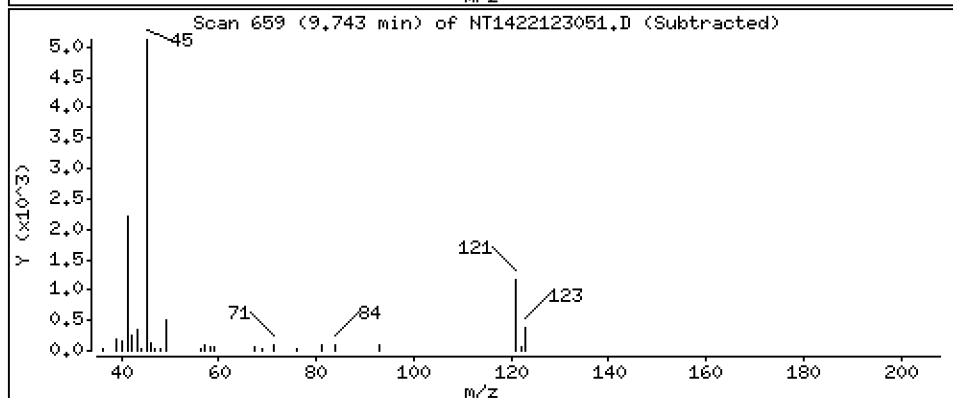
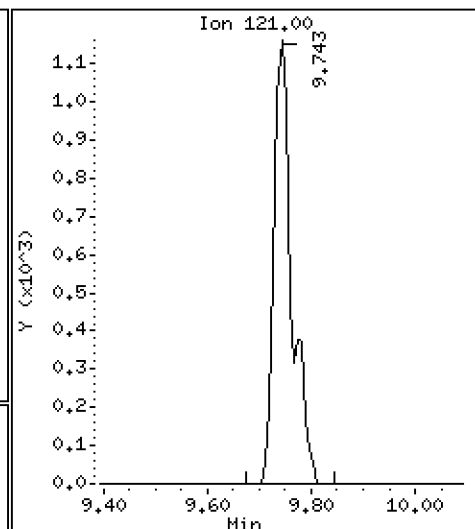
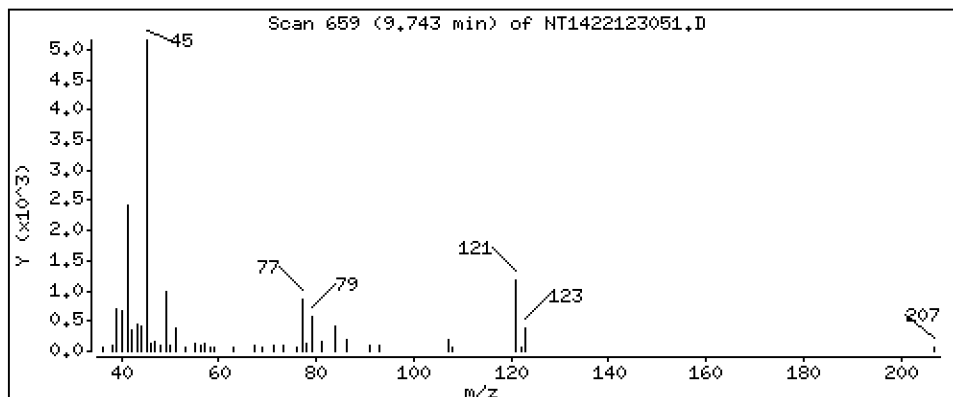
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2236 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

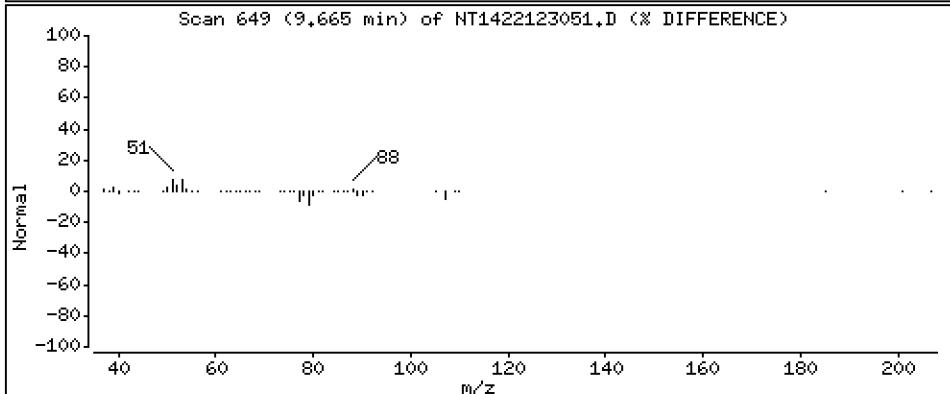
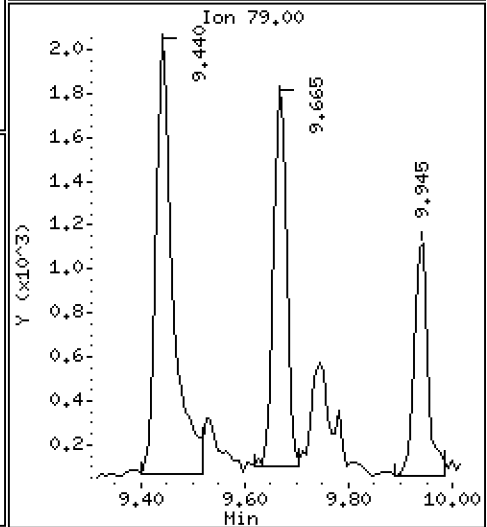
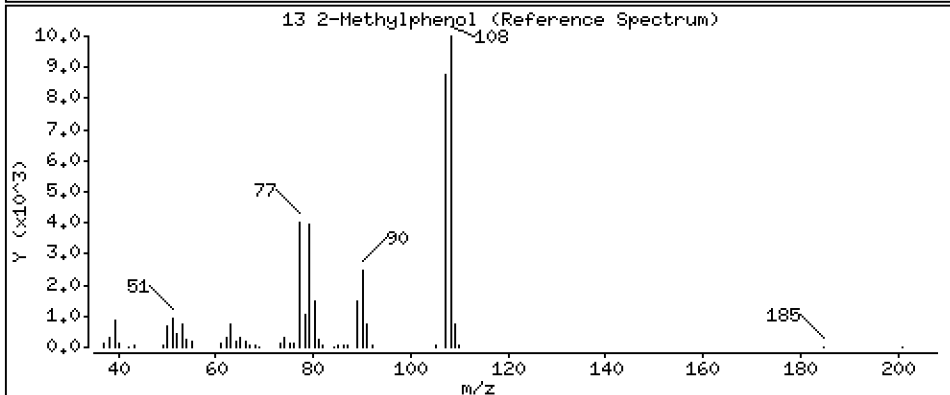
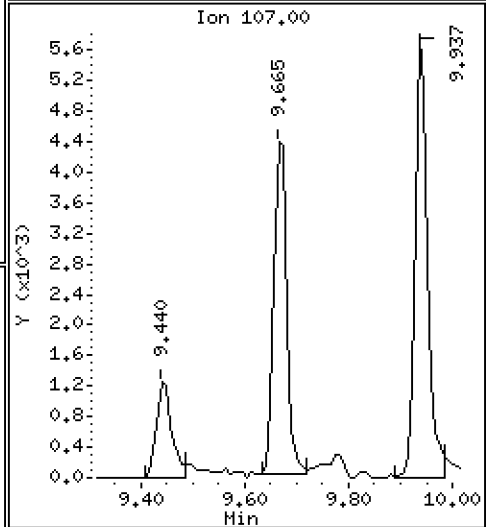
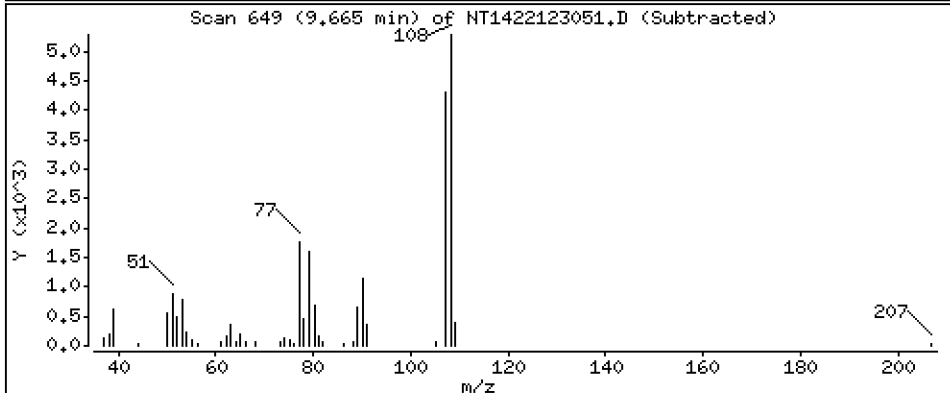
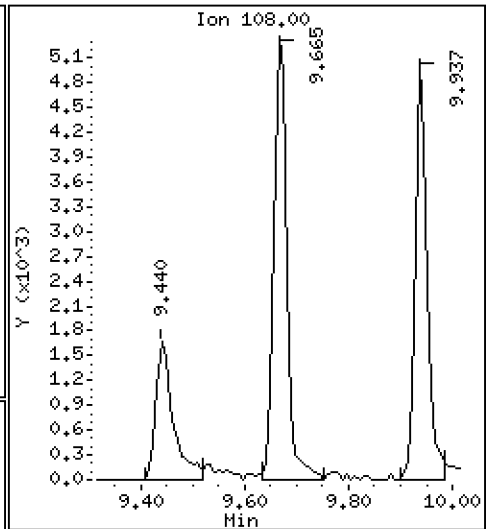
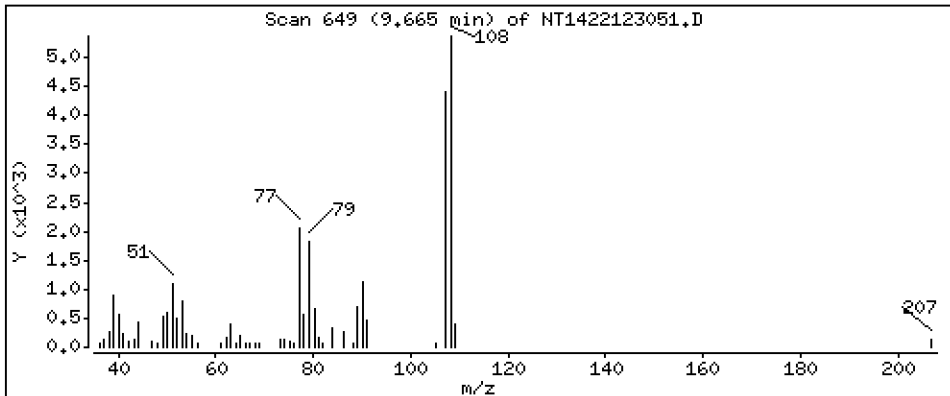
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.2341 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

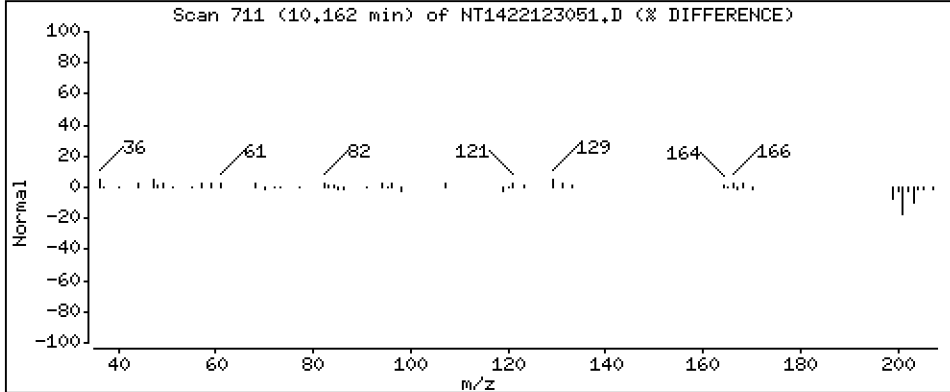
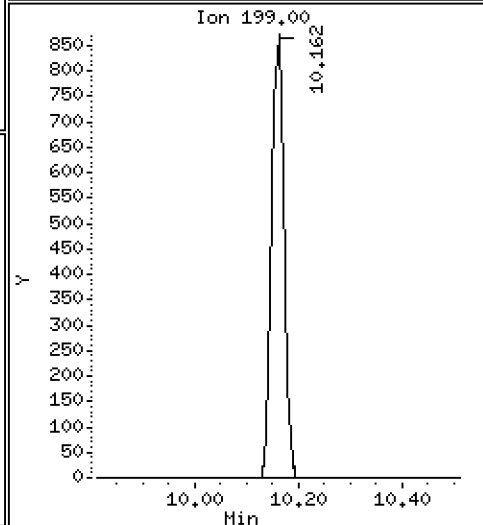
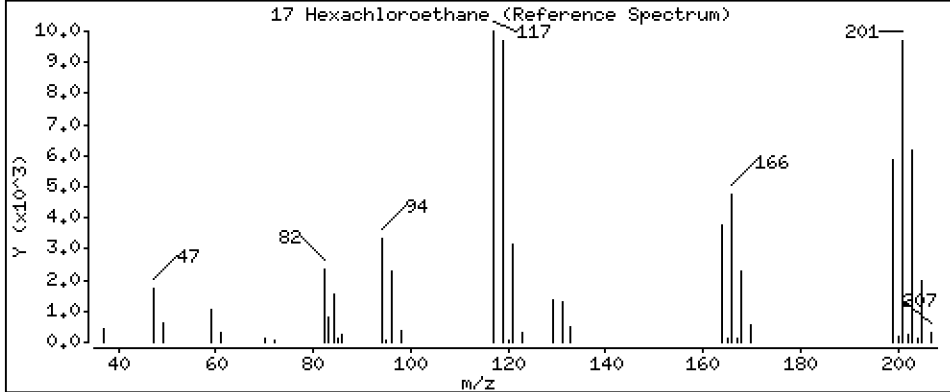
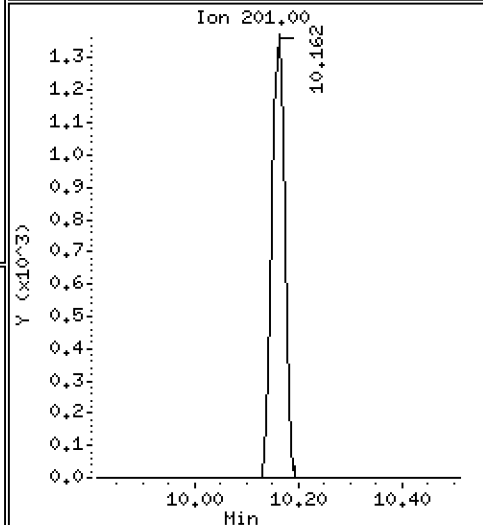
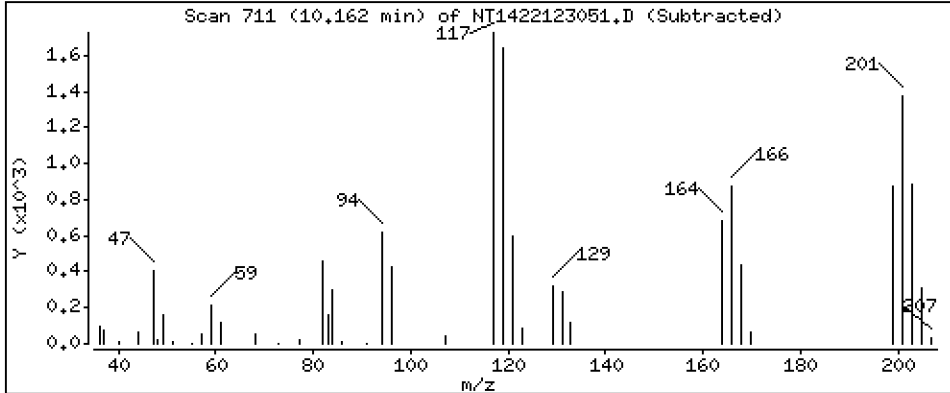
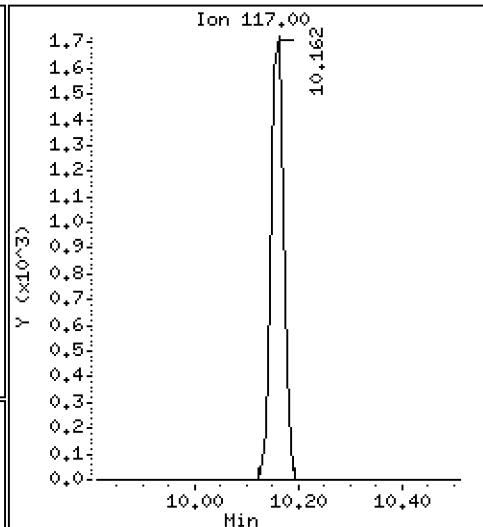
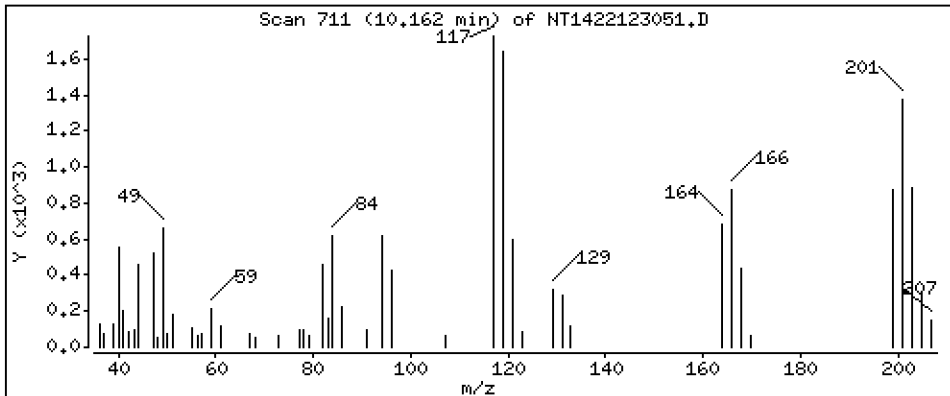
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1755 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

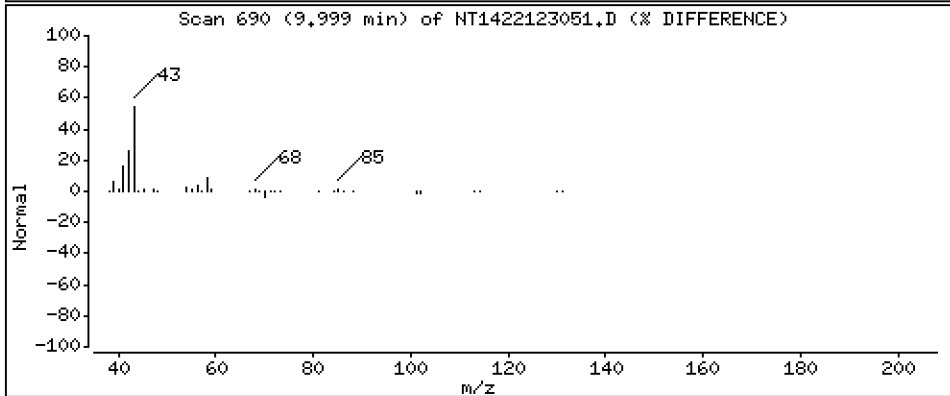
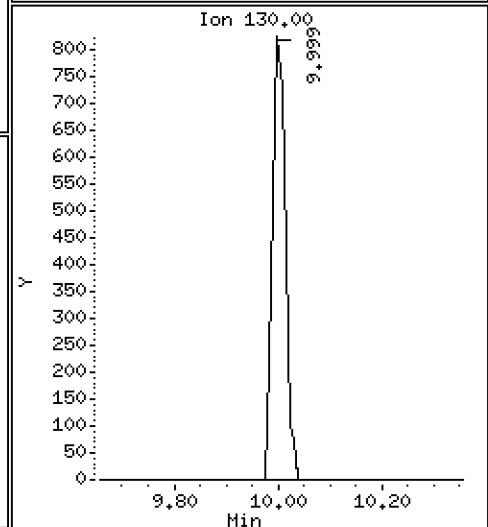
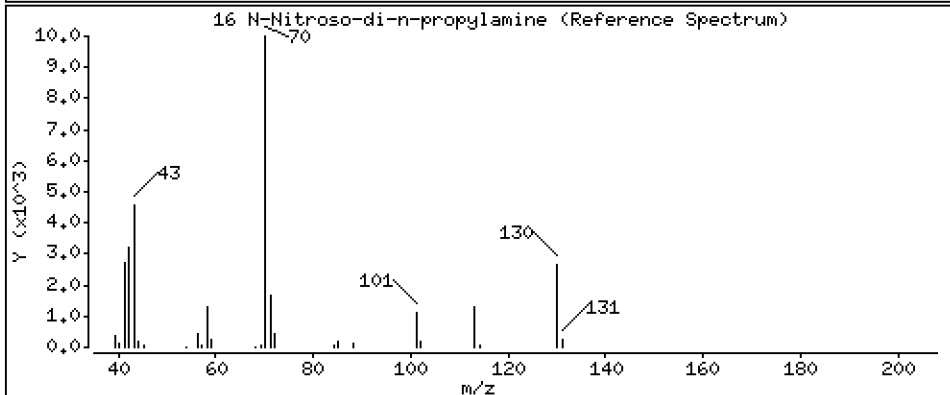
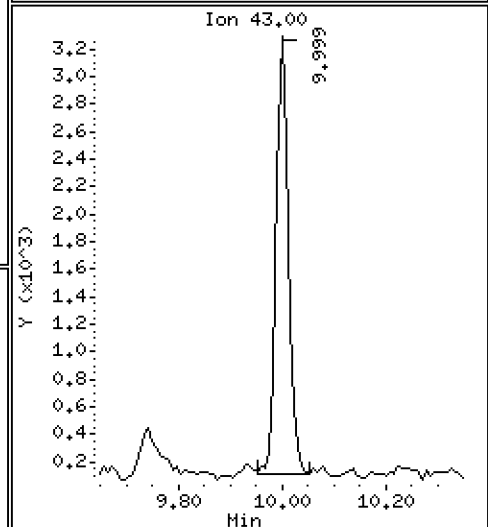
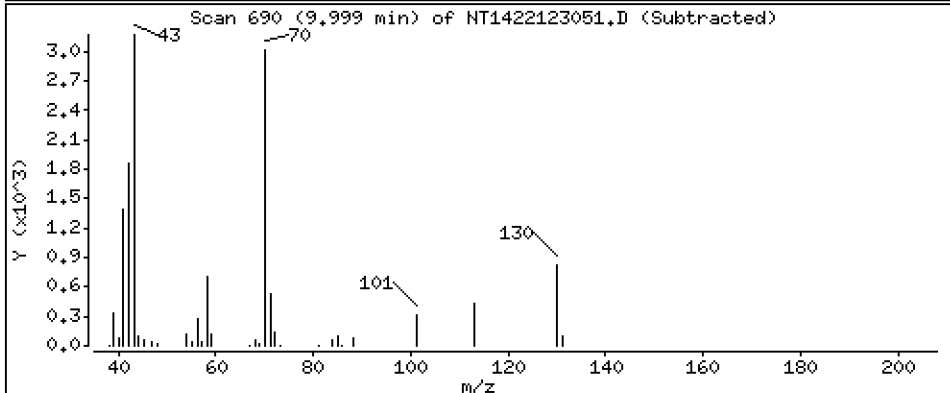
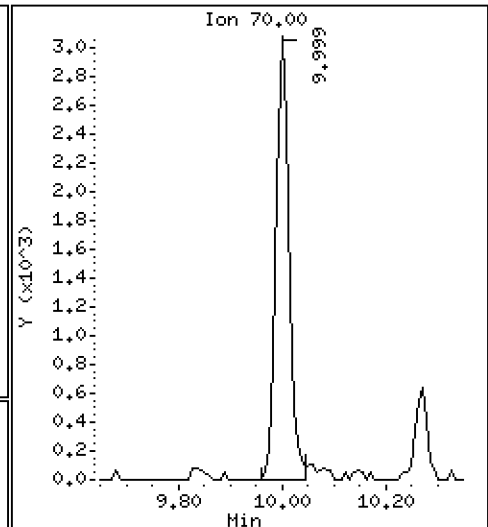
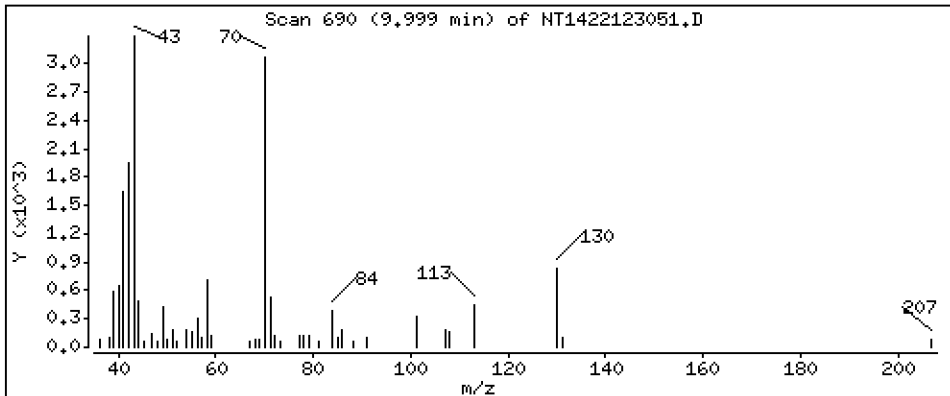
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2208 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

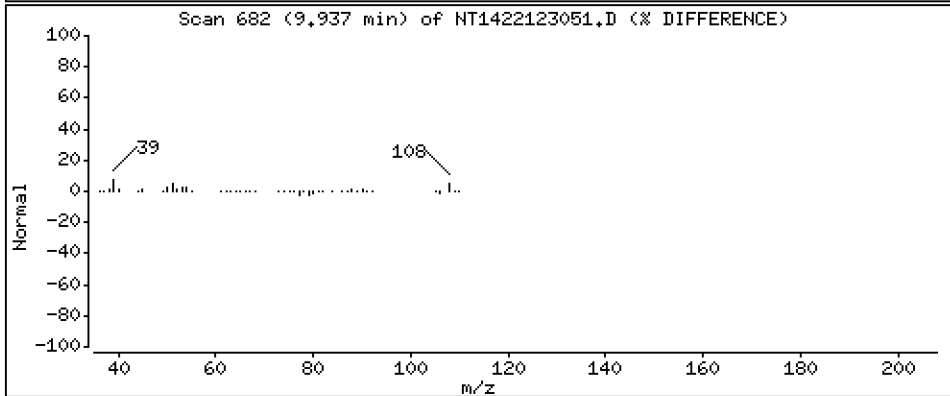
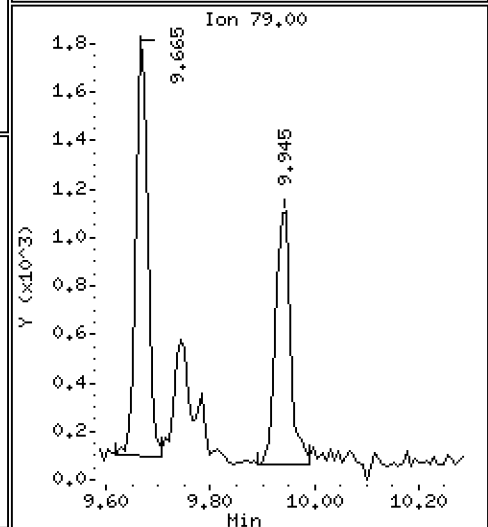
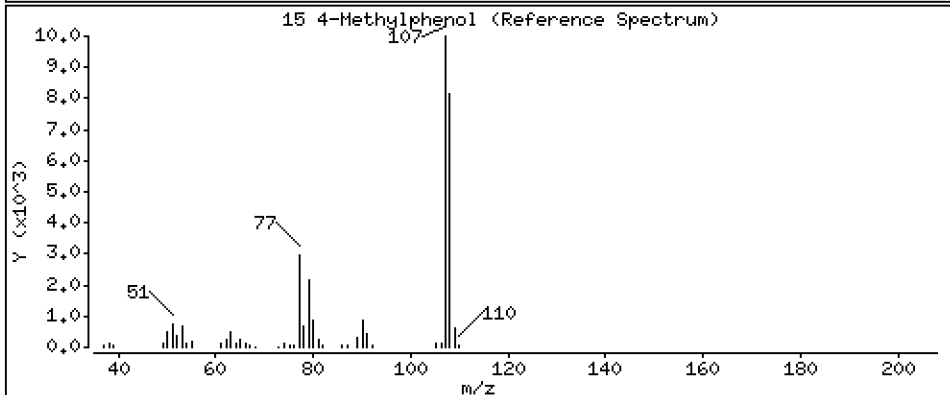
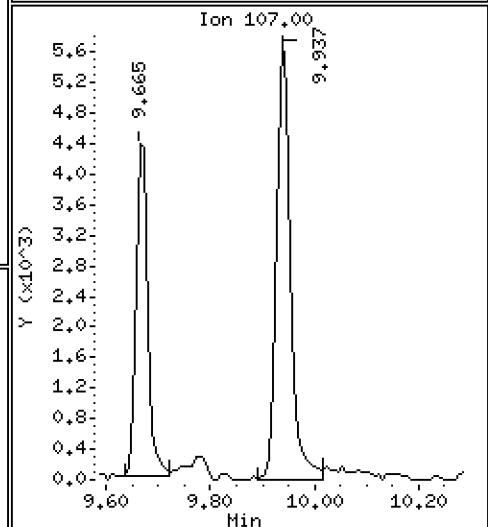
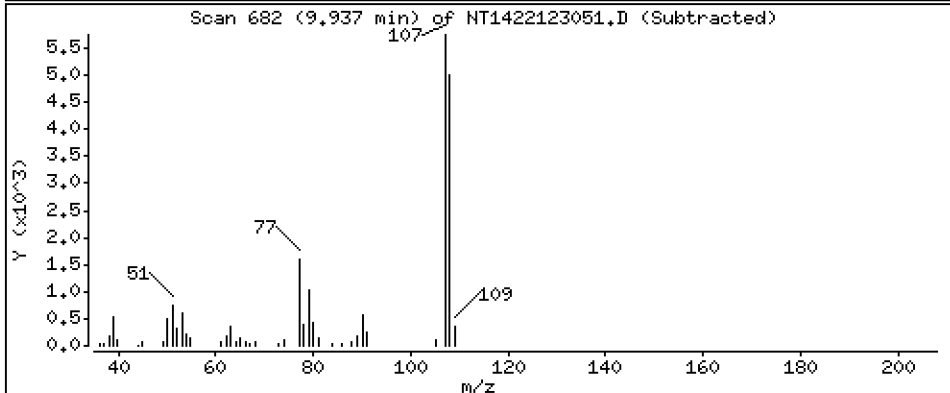
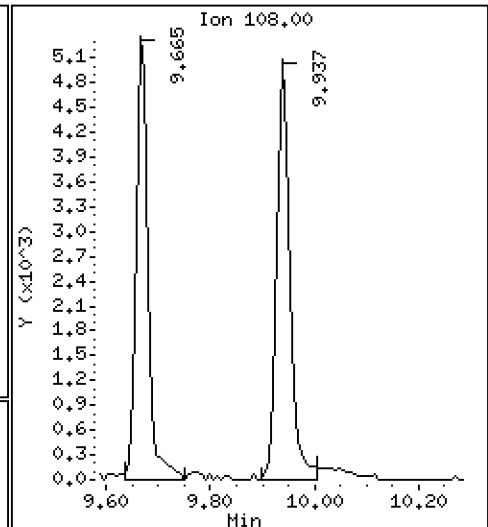
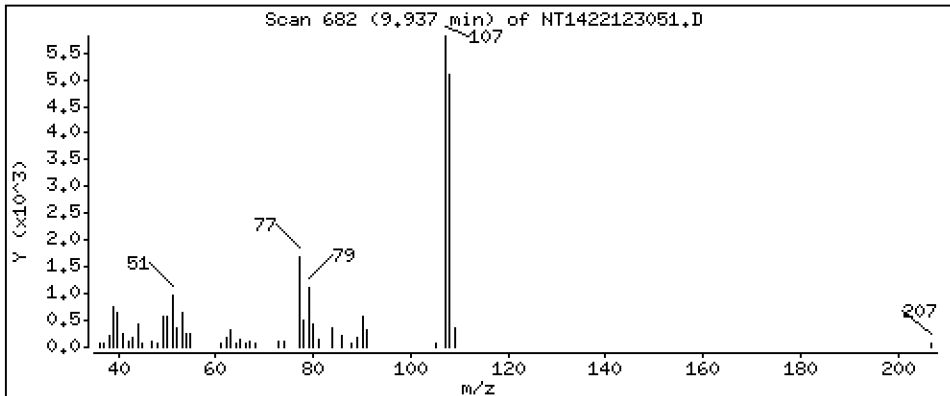
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,2121 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

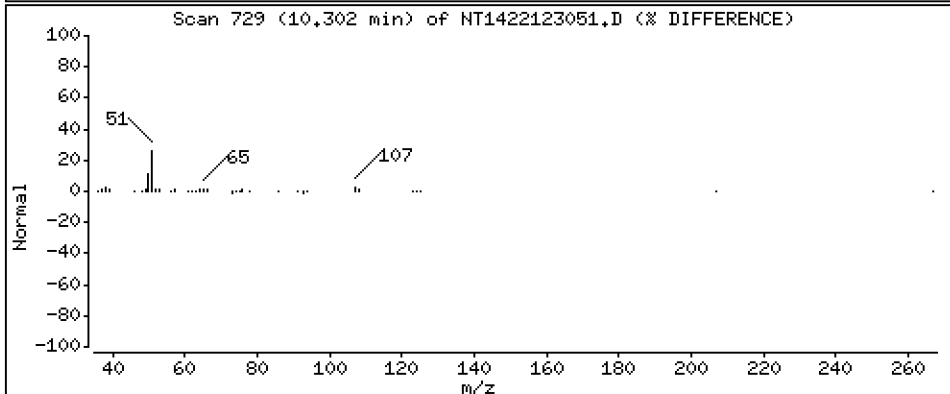
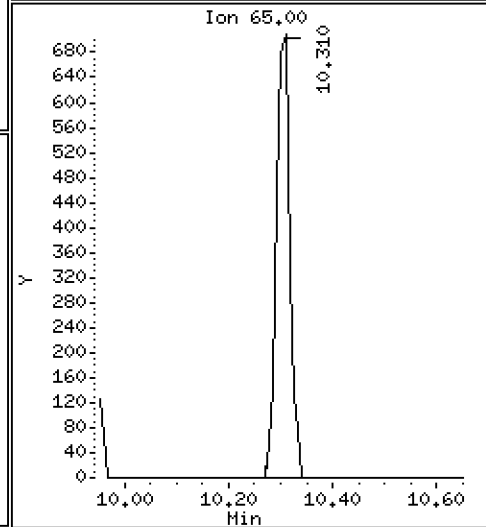
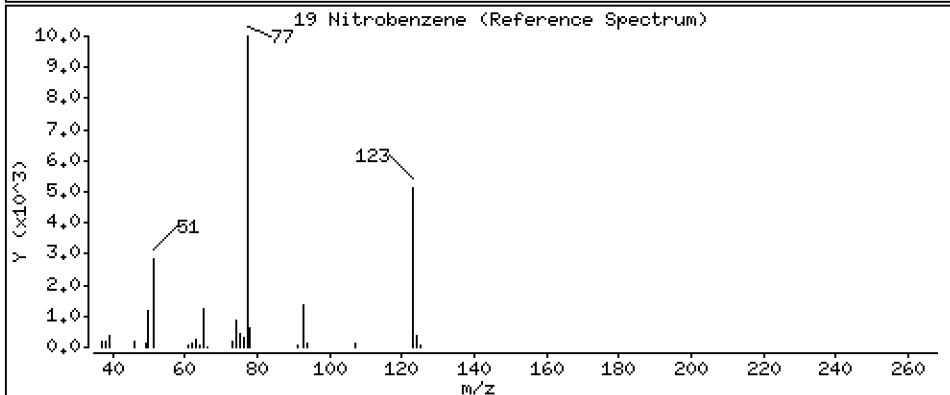
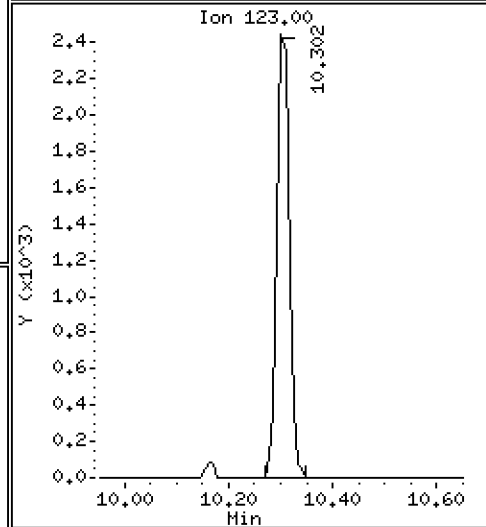
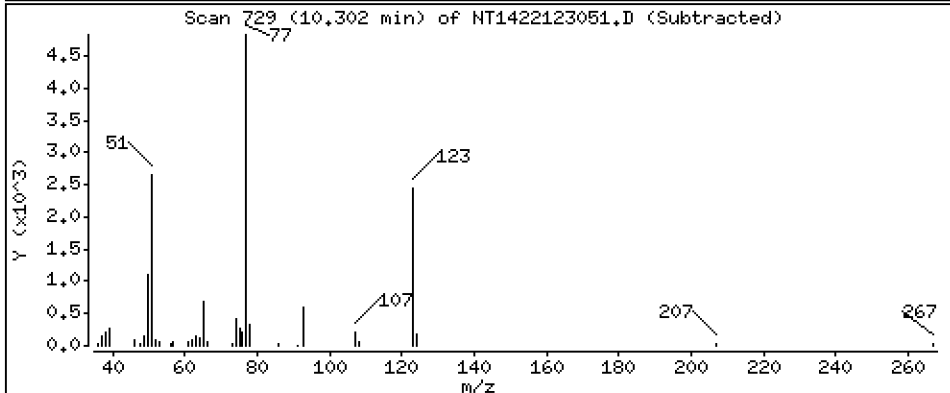
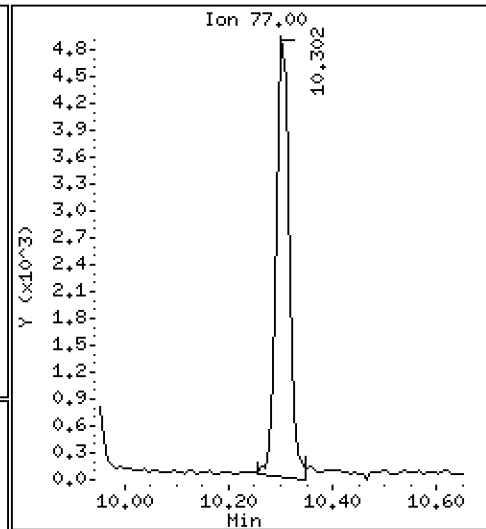
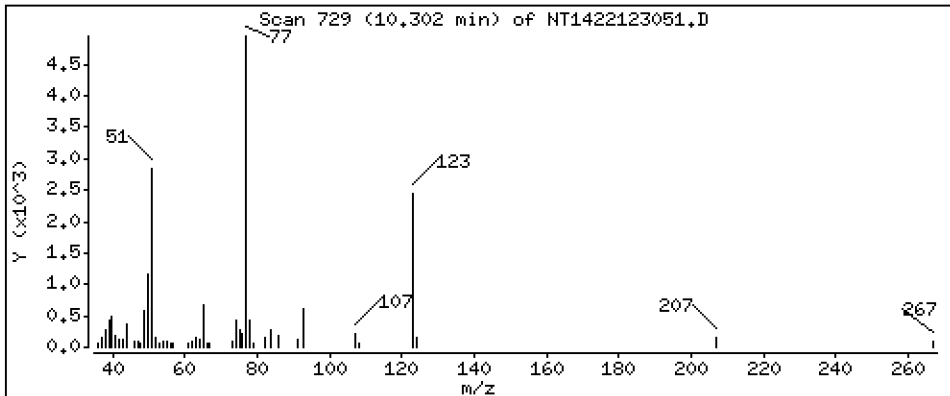
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,2254 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

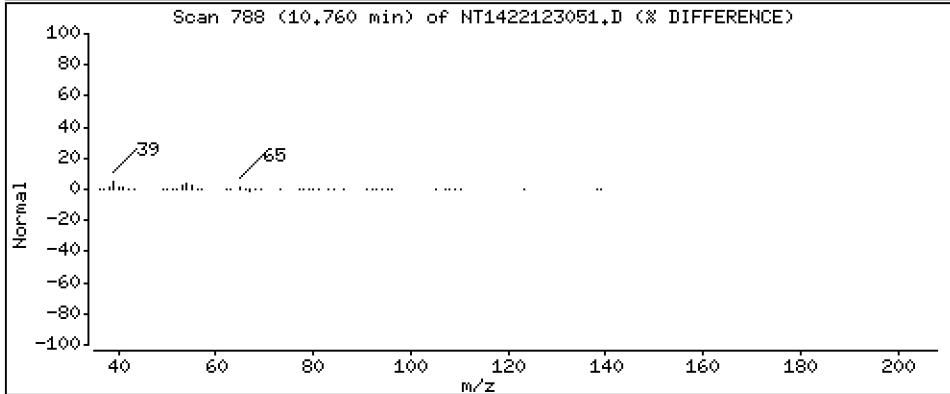
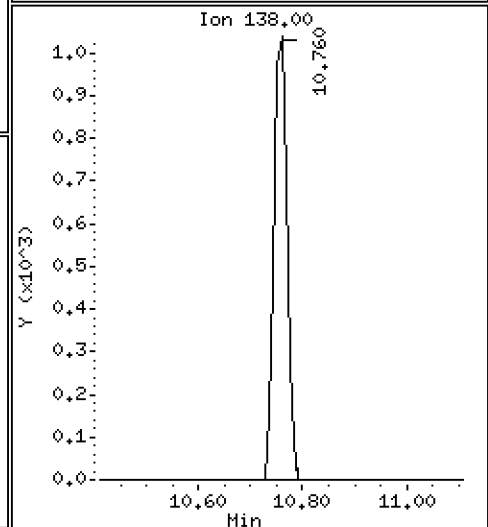
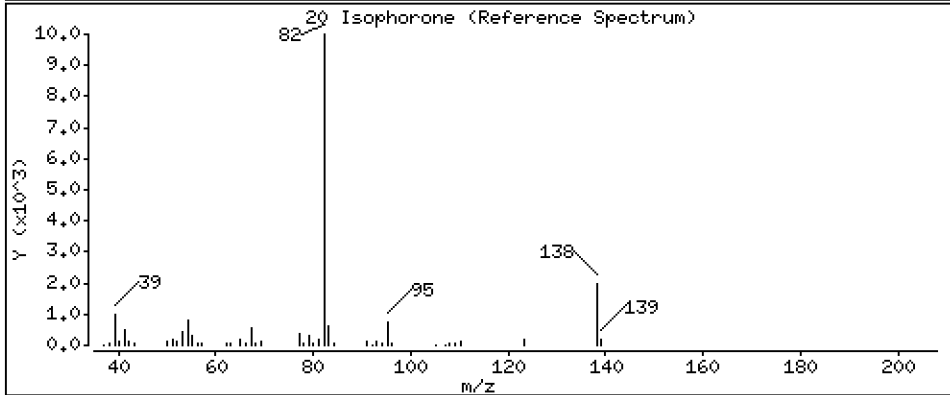
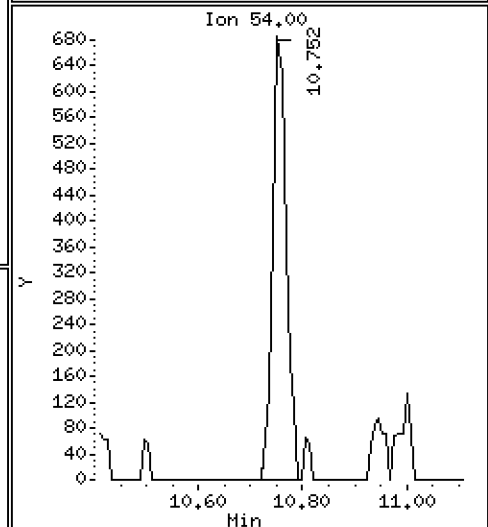
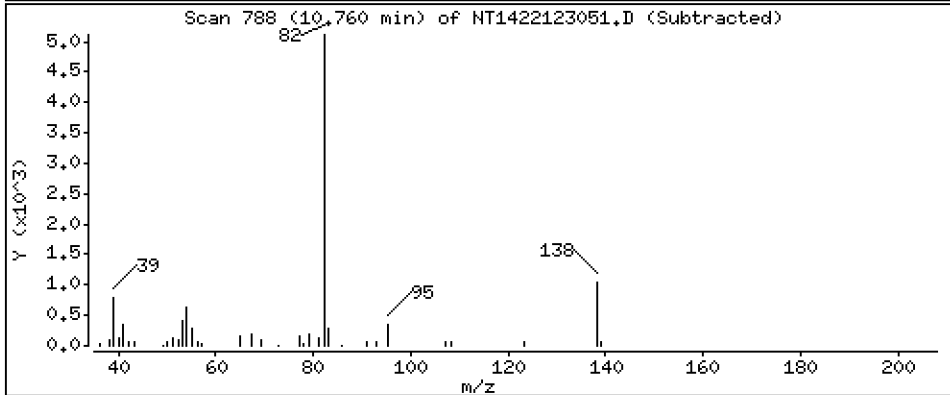
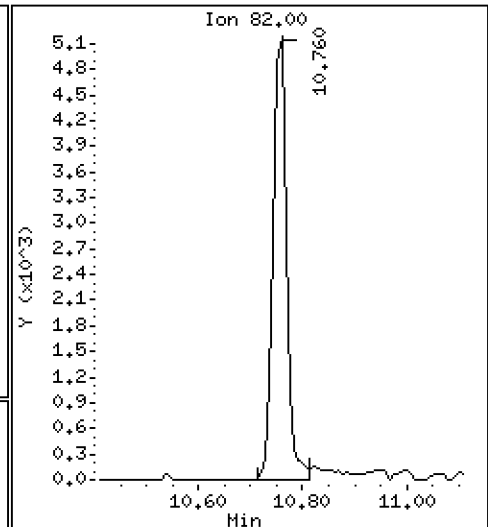
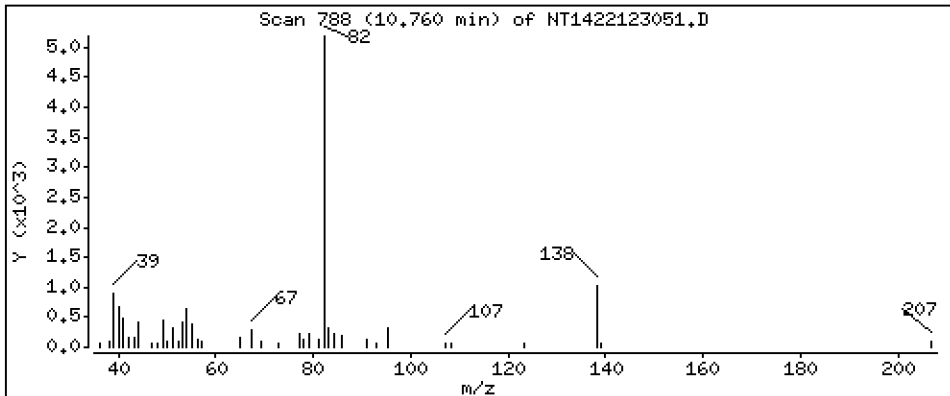
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1965 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

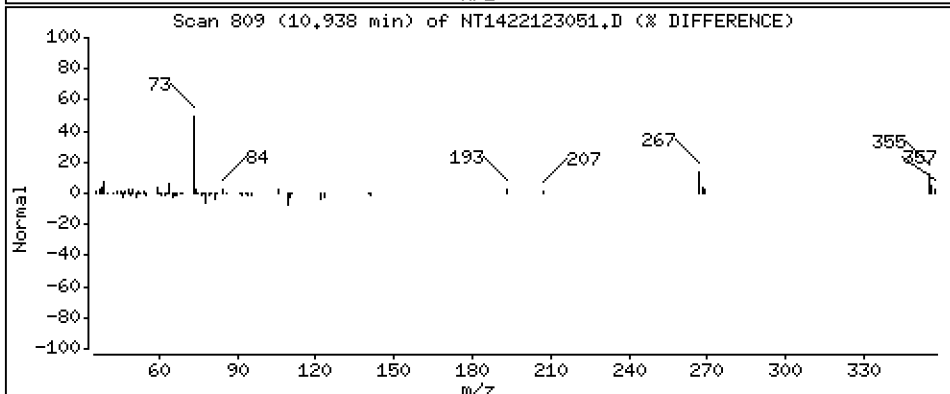
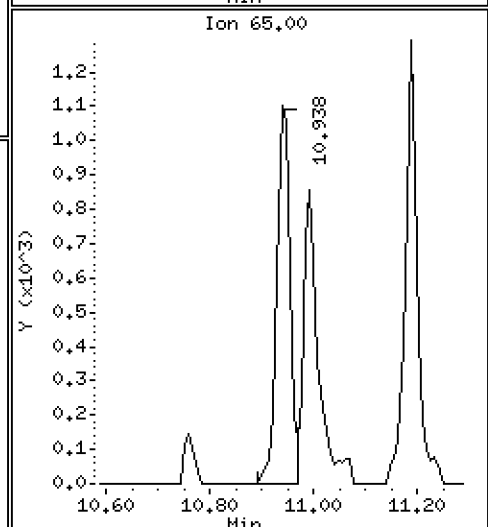
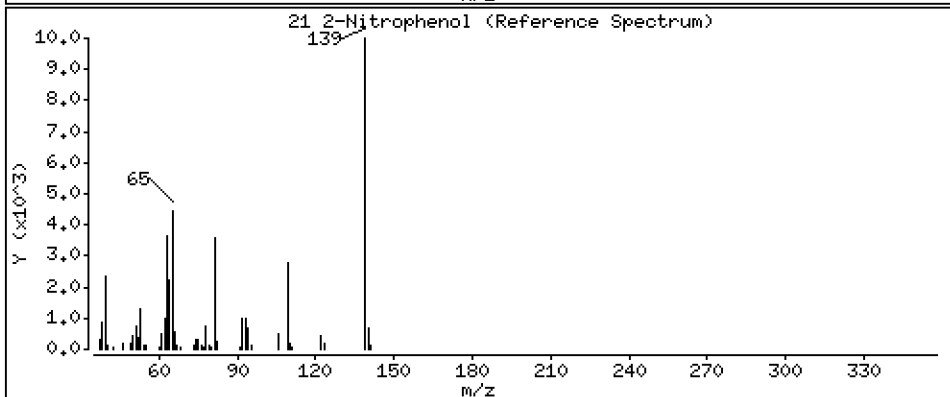
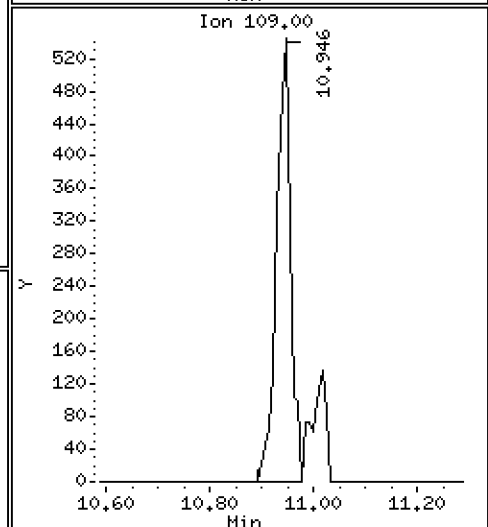
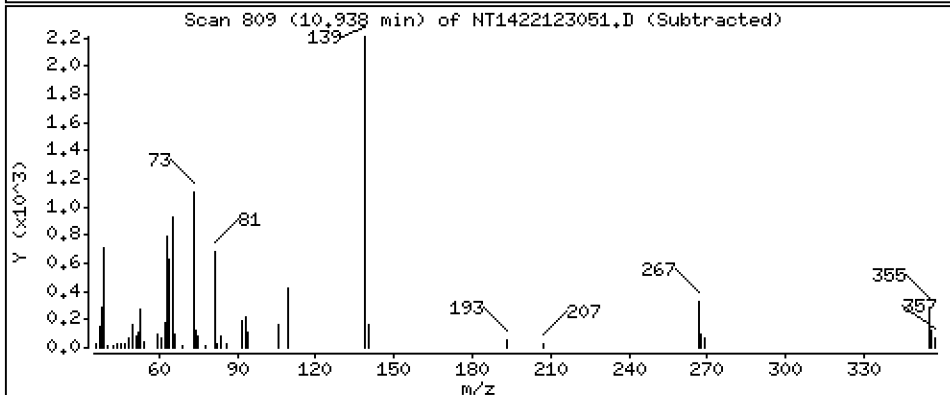
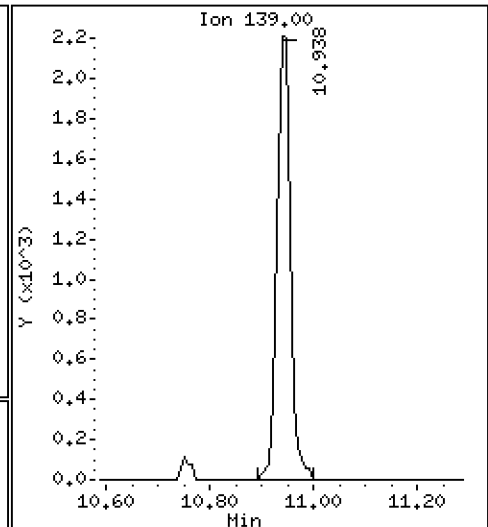
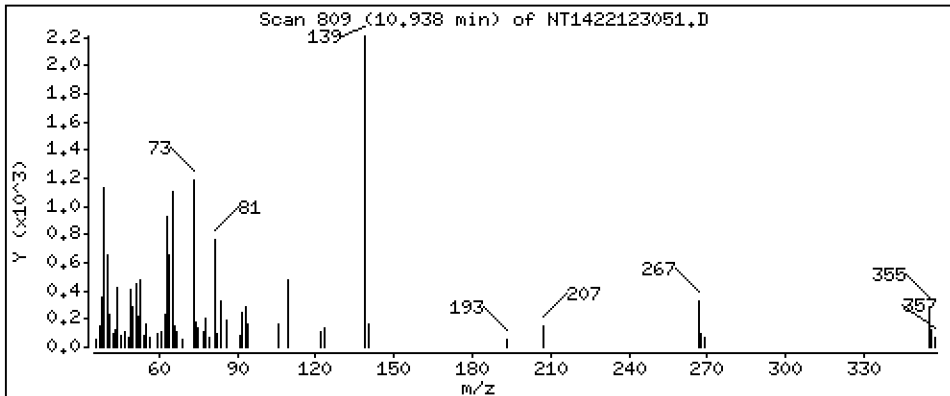
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2028 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

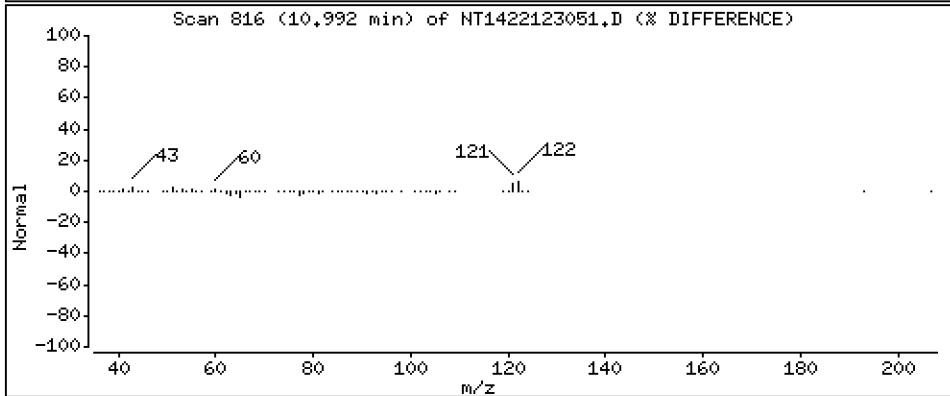
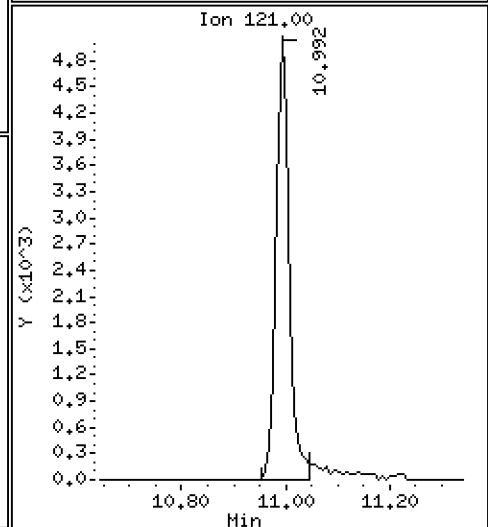
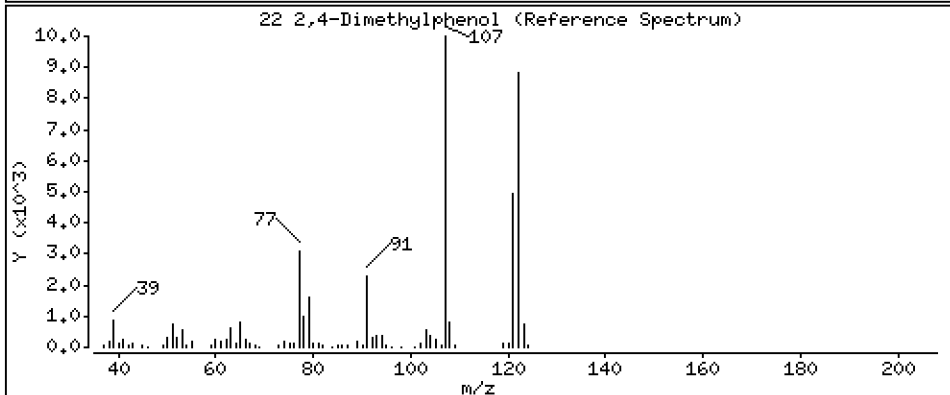
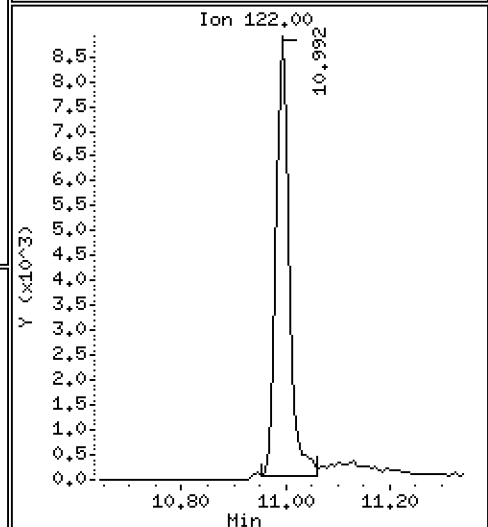
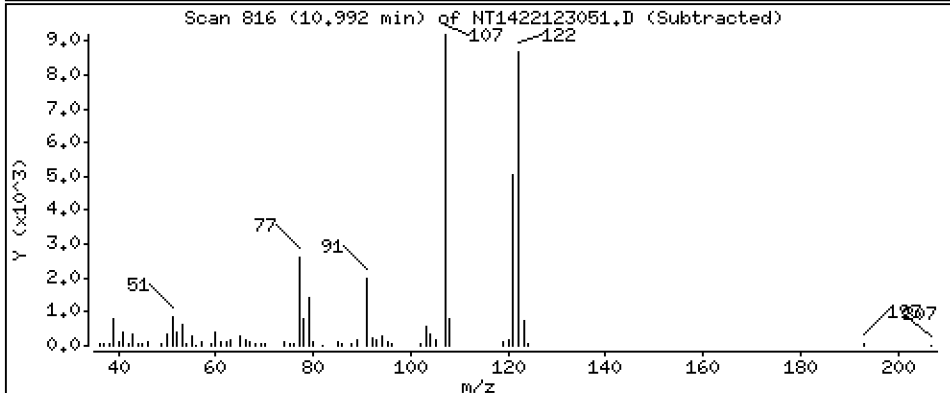
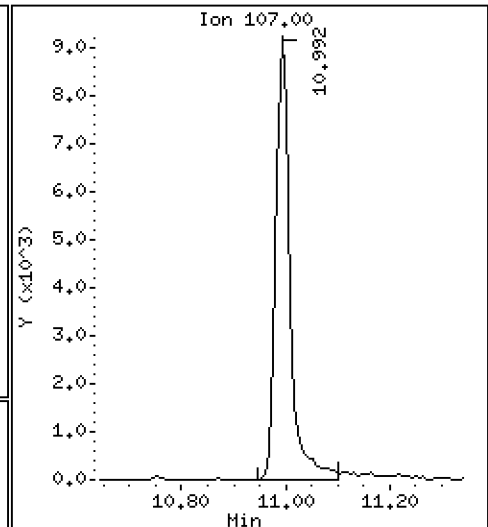
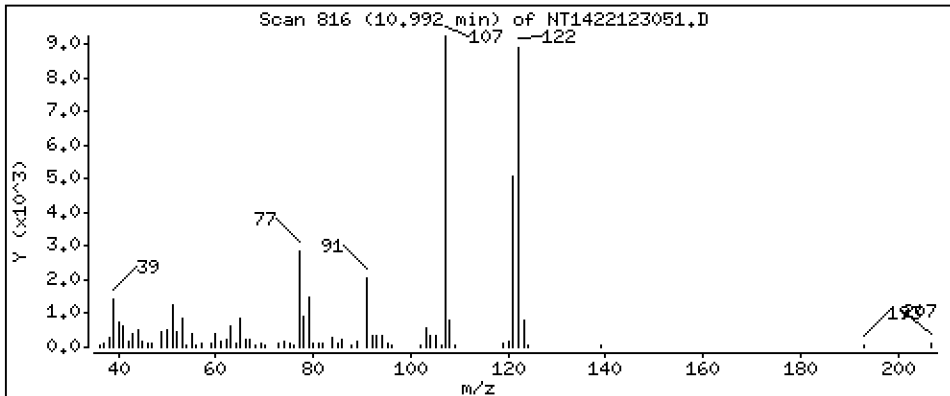
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4556 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

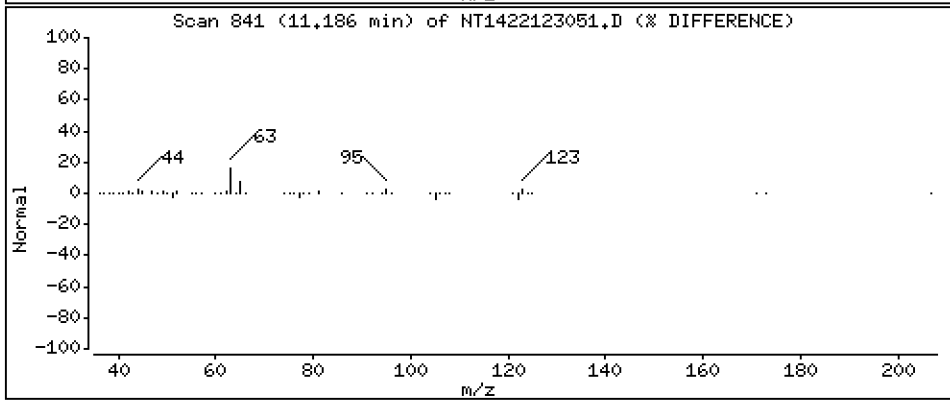
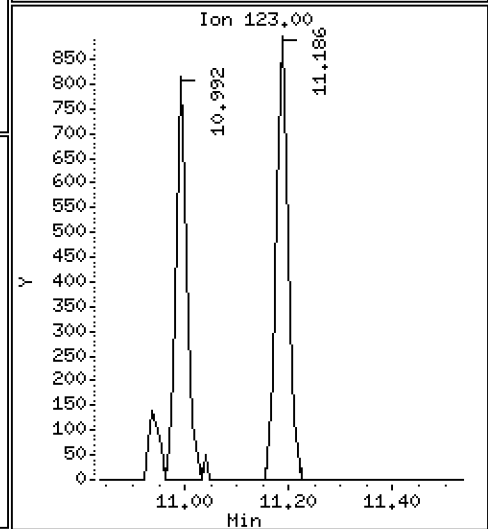
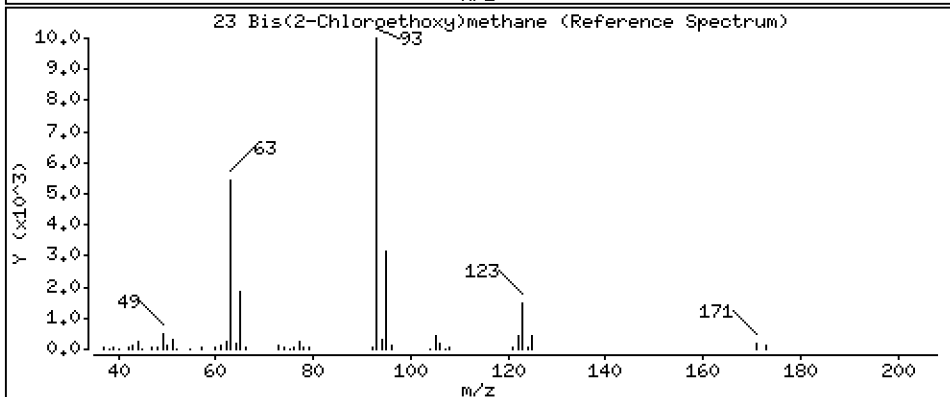
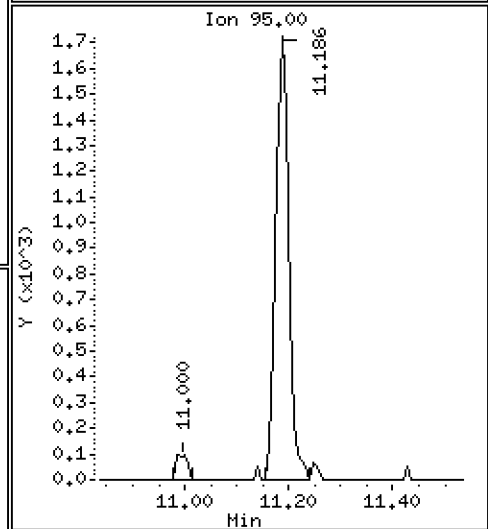
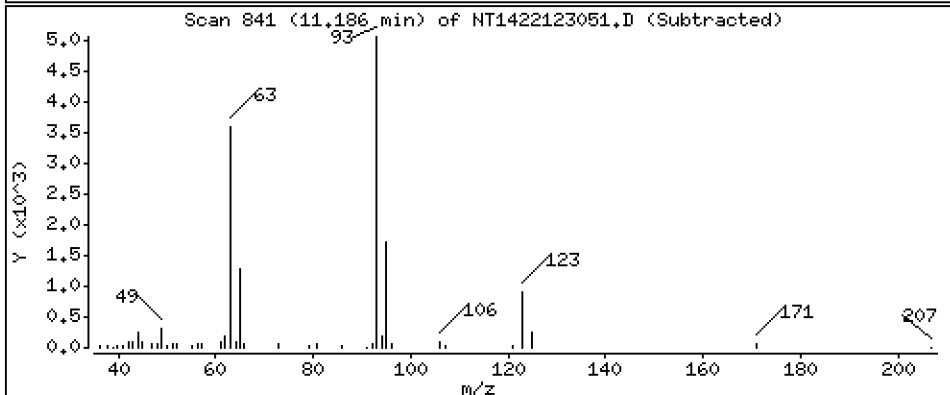
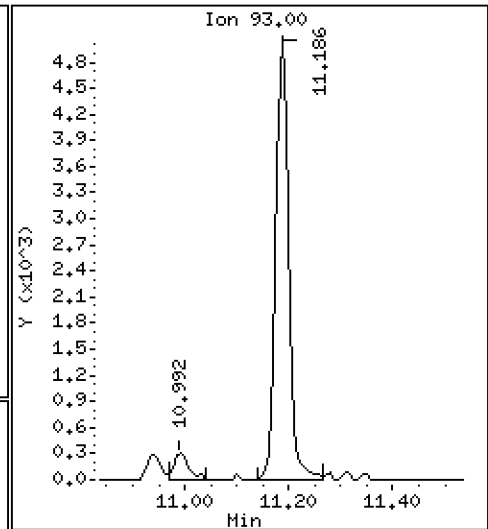
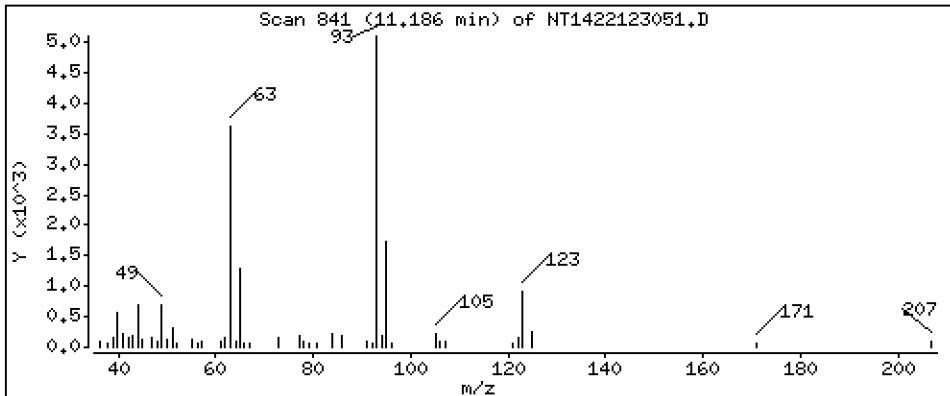
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2358 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

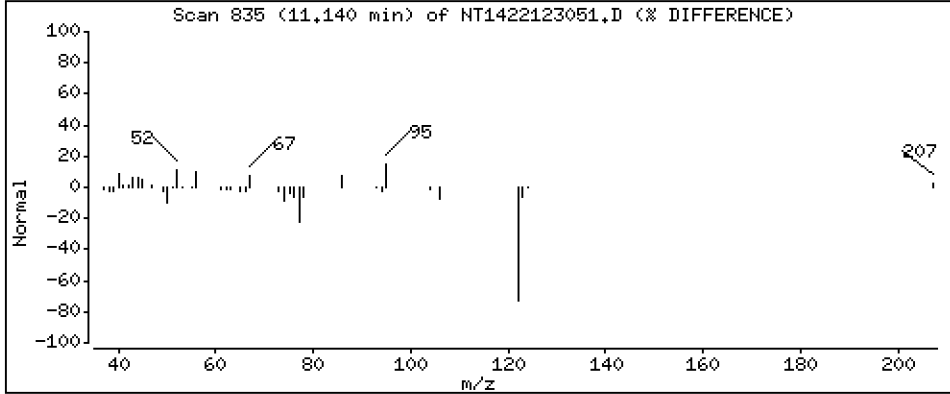
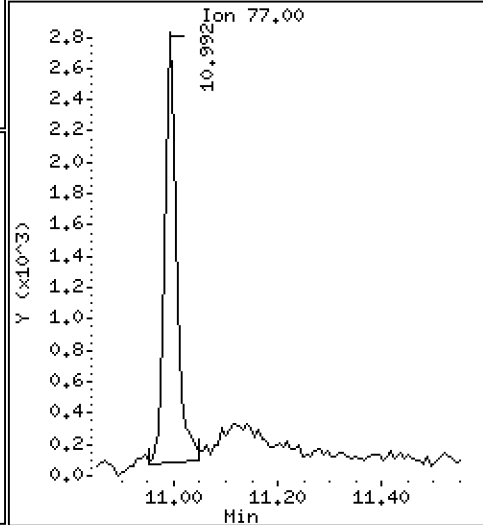
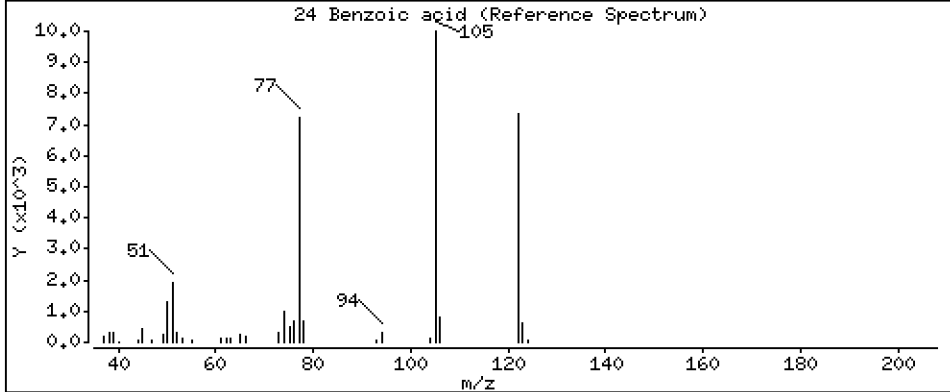
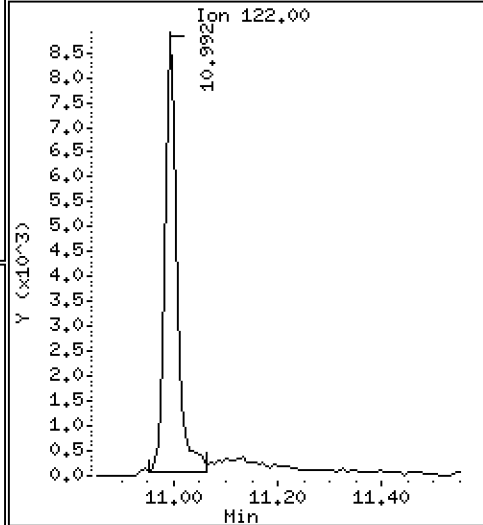
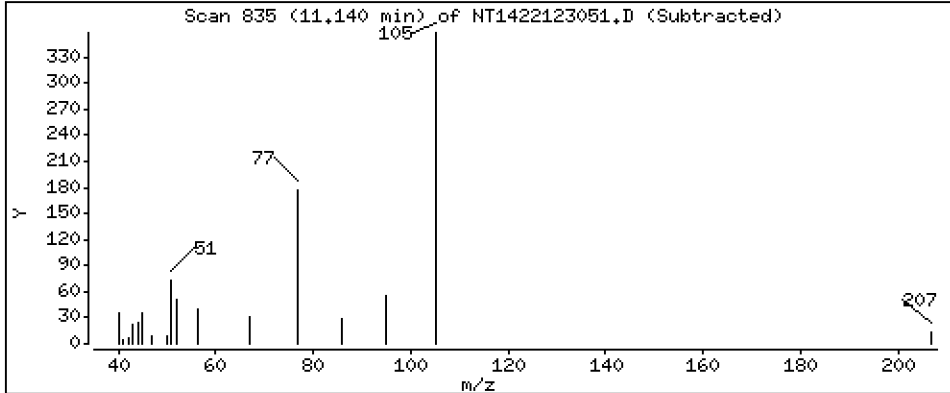
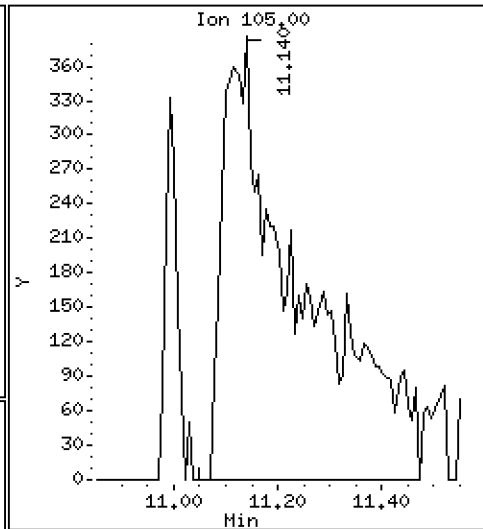
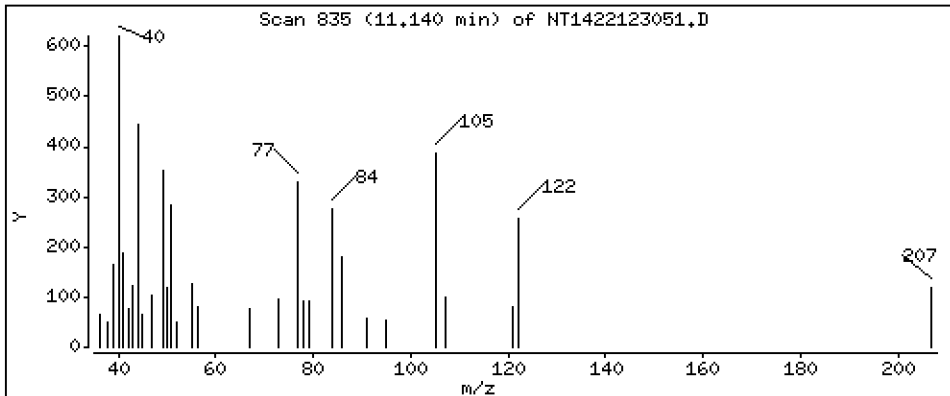
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,1748 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

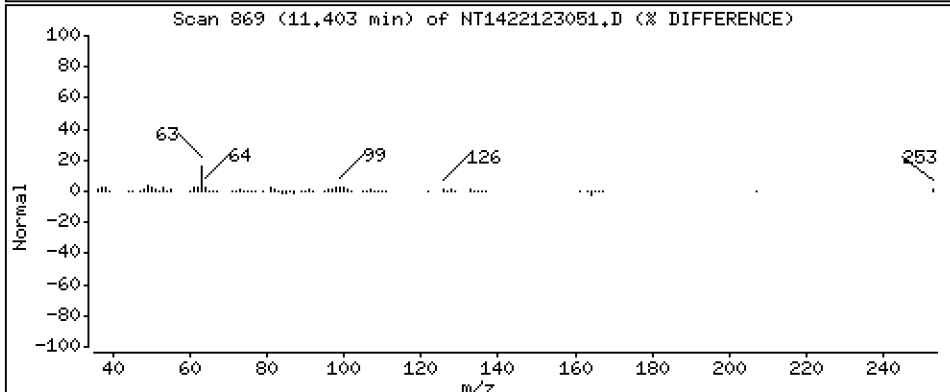
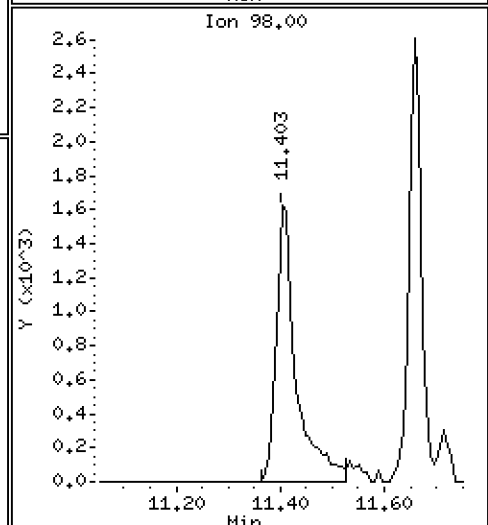
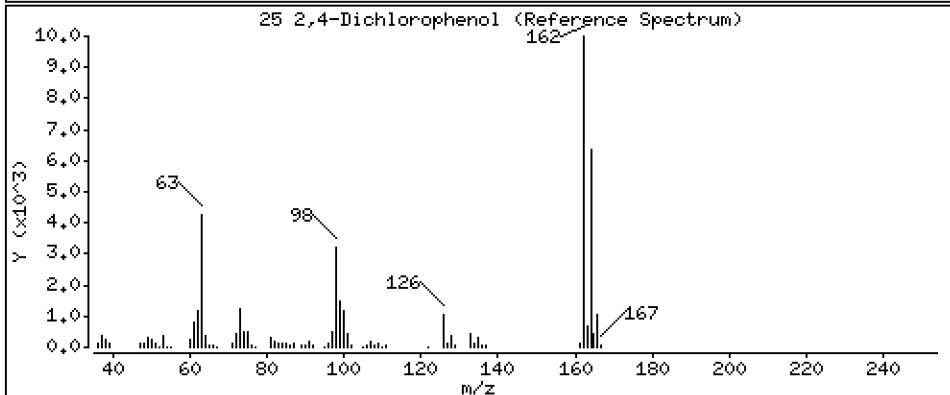
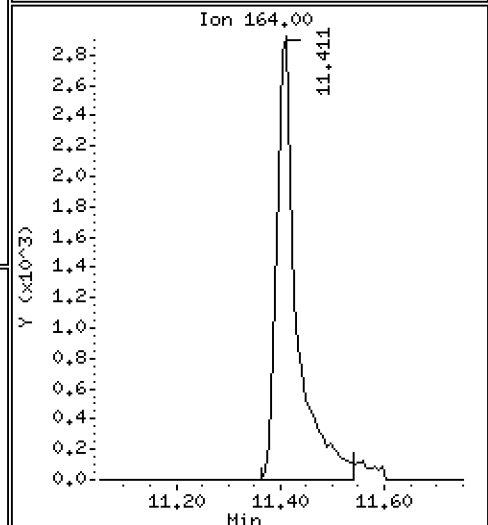
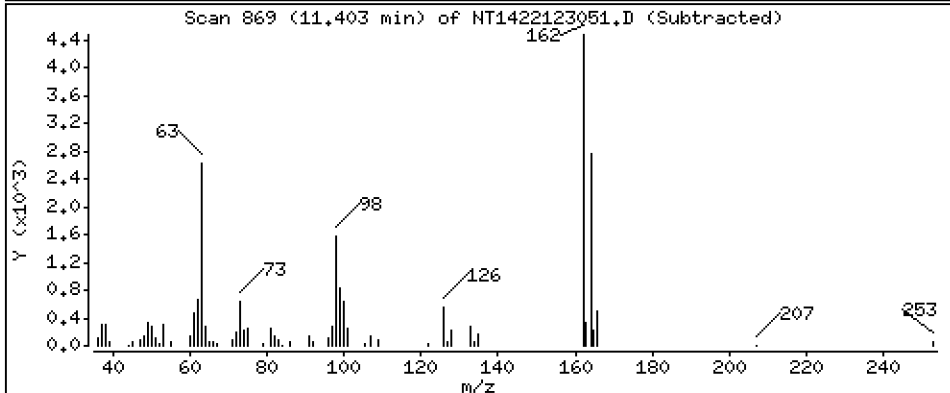
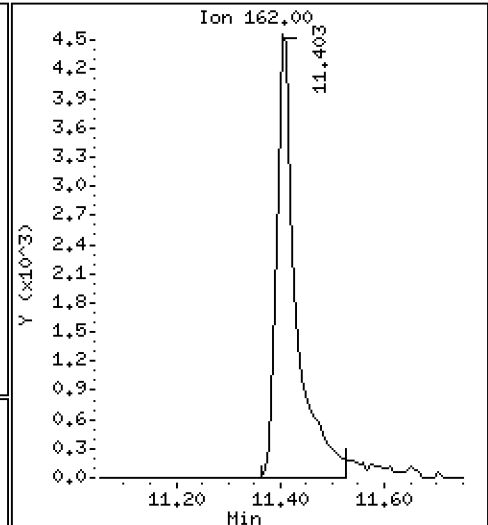
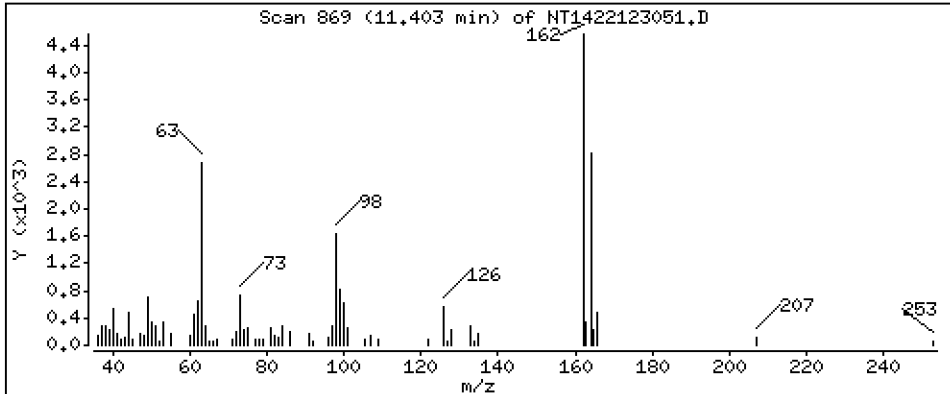
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4132 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

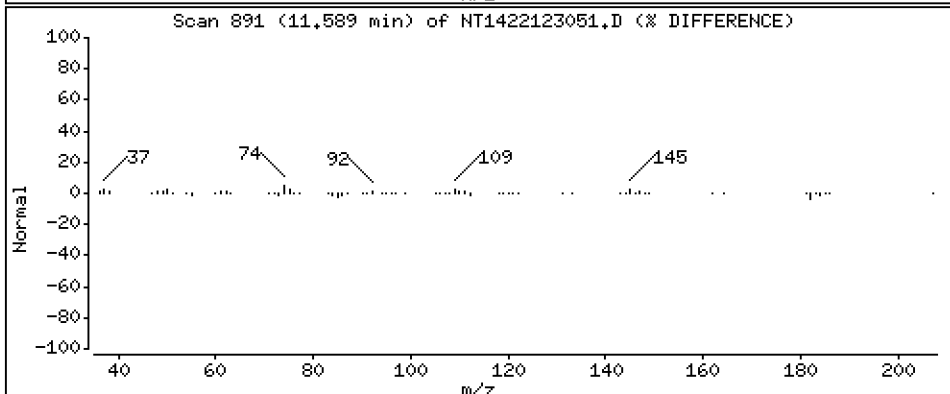
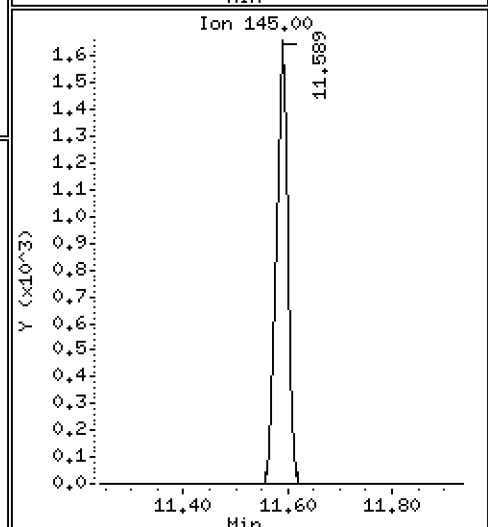
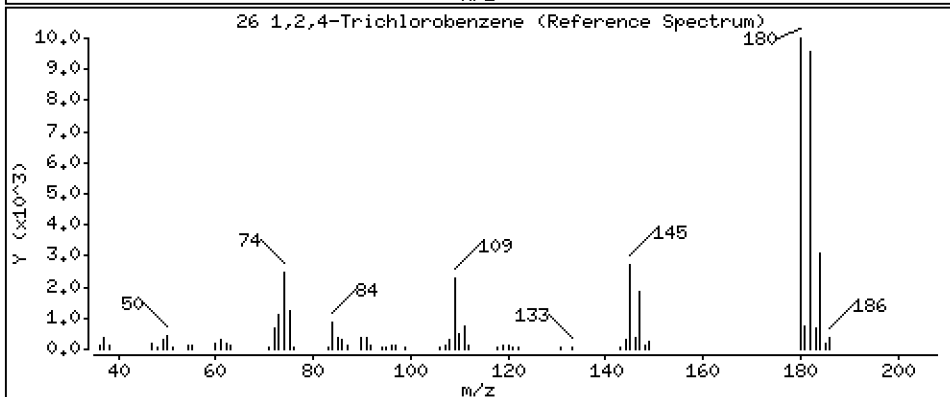
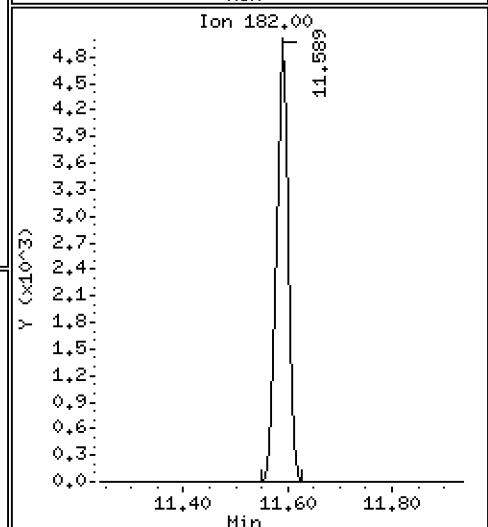
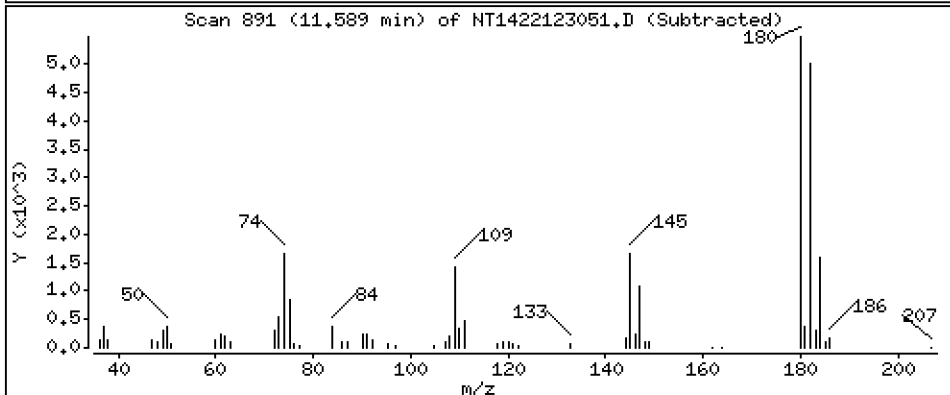
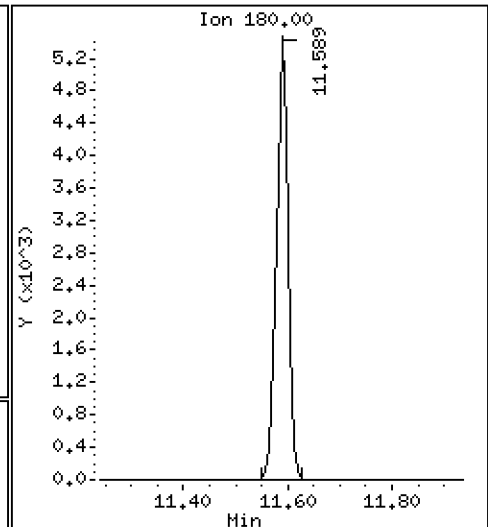
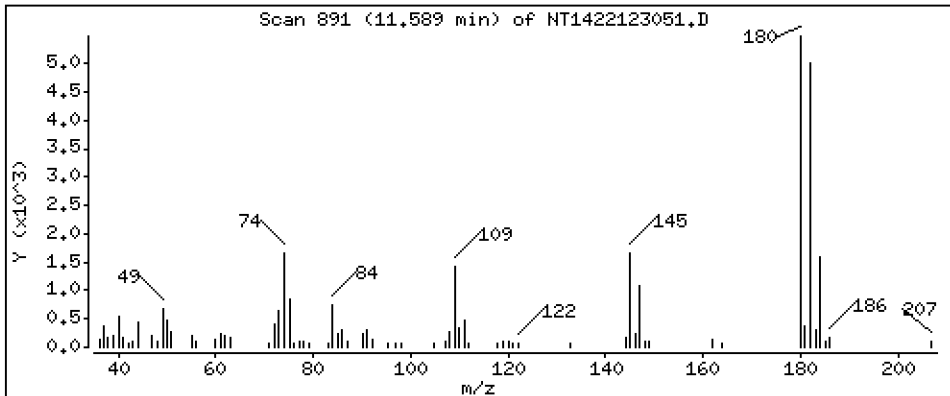
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2422 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

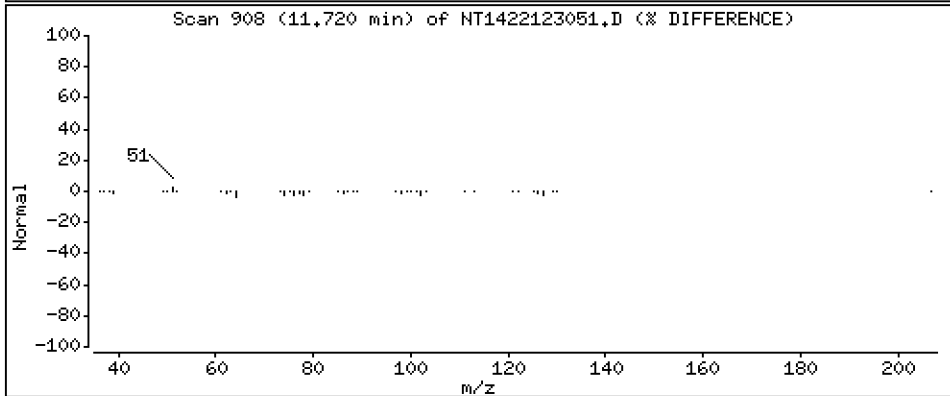
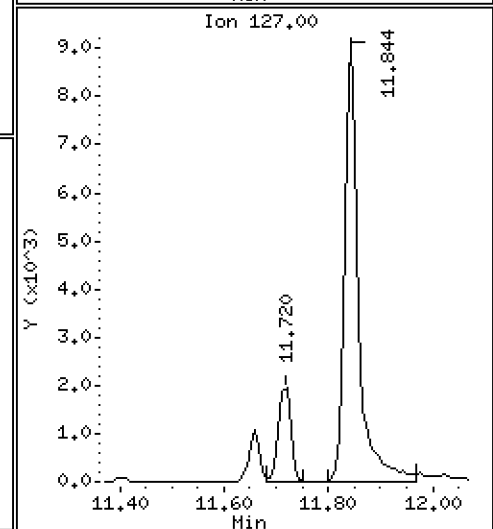
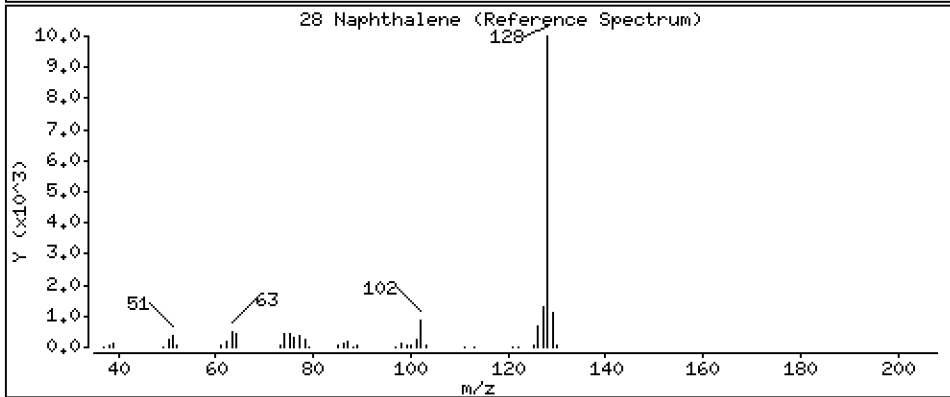
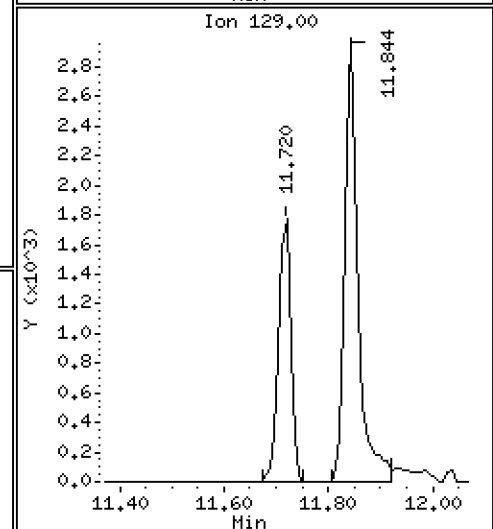
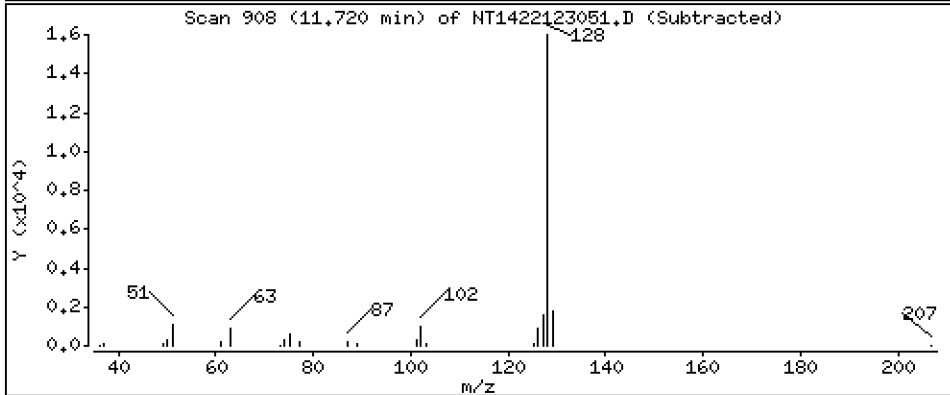
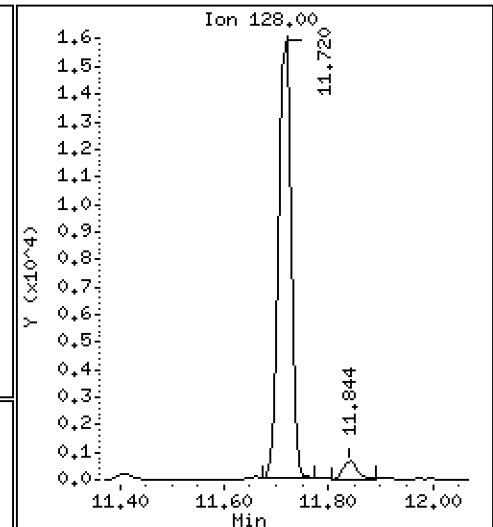
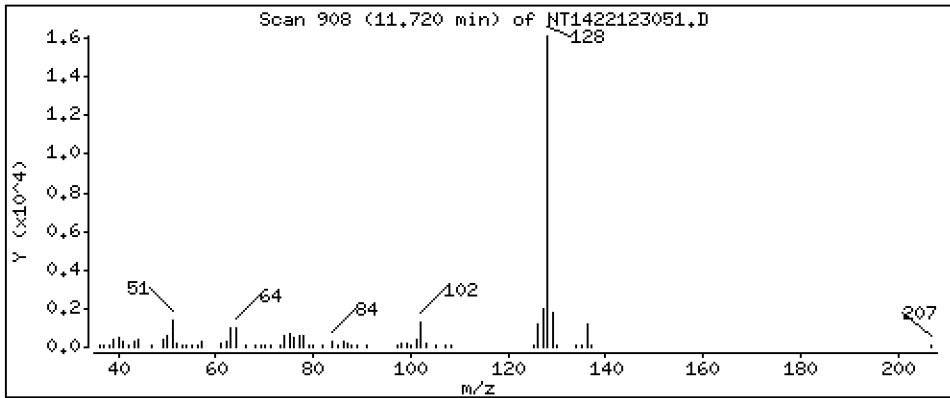
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.2377 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

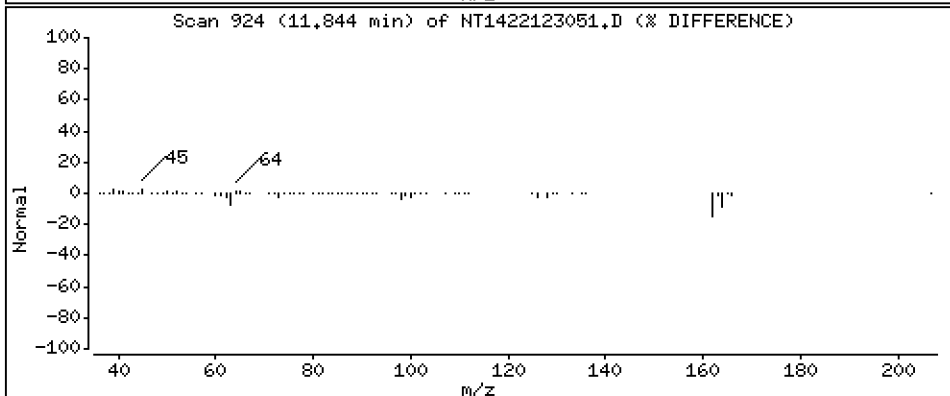
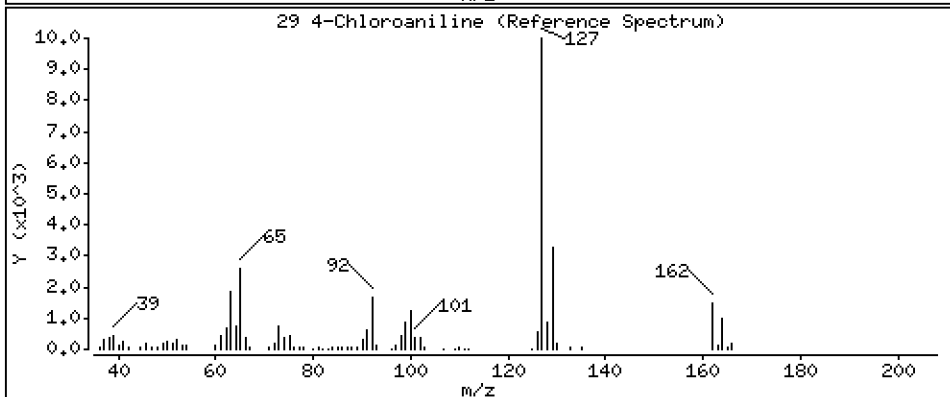
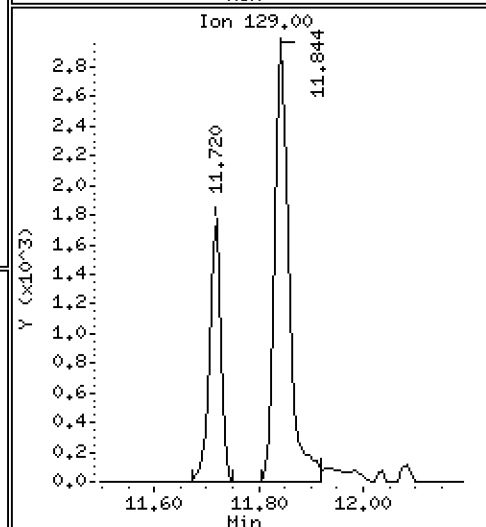
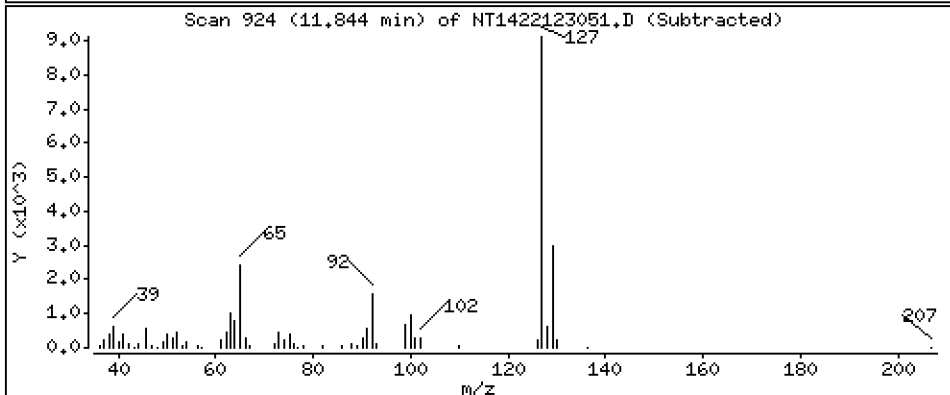
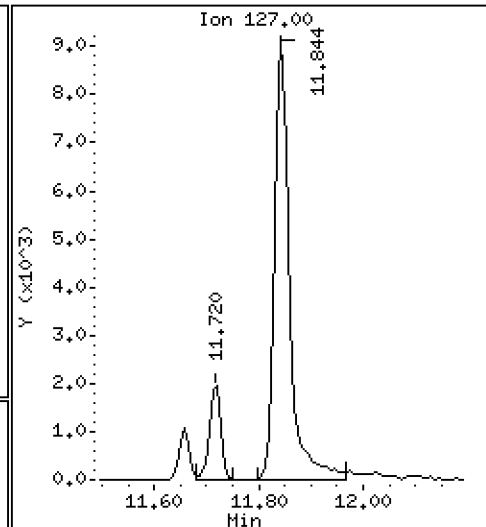
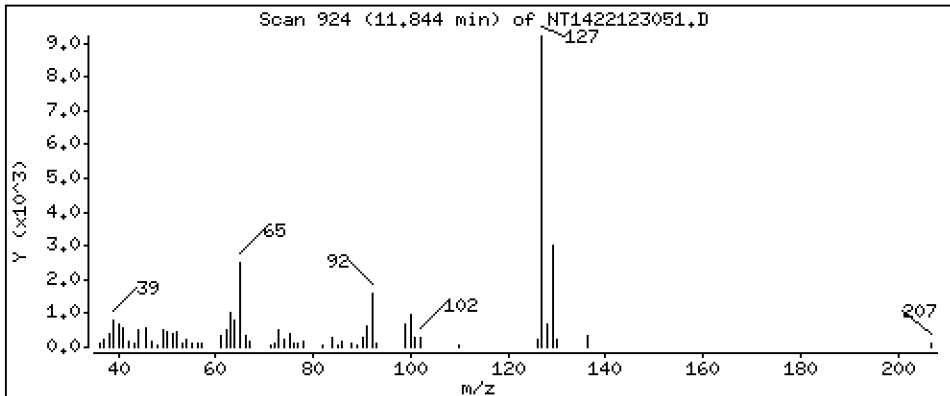
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,4058 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

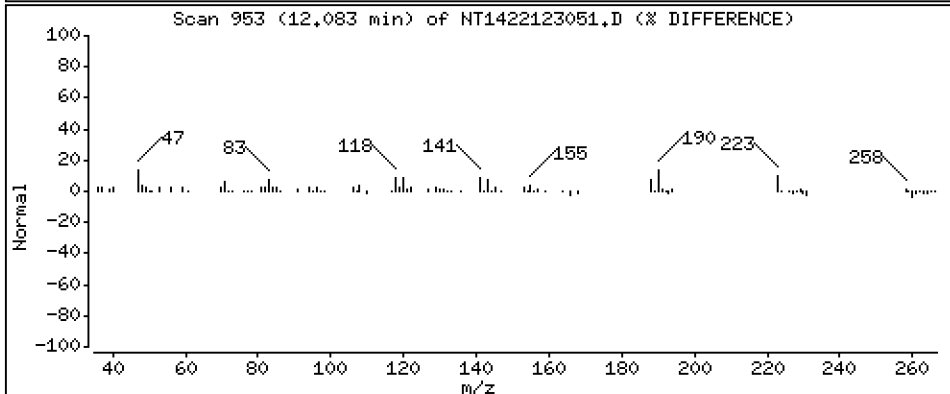
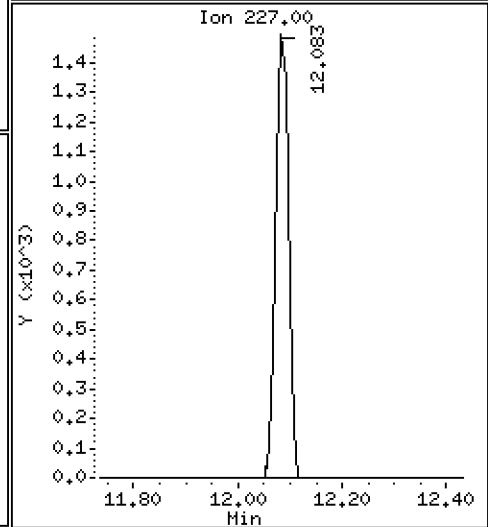
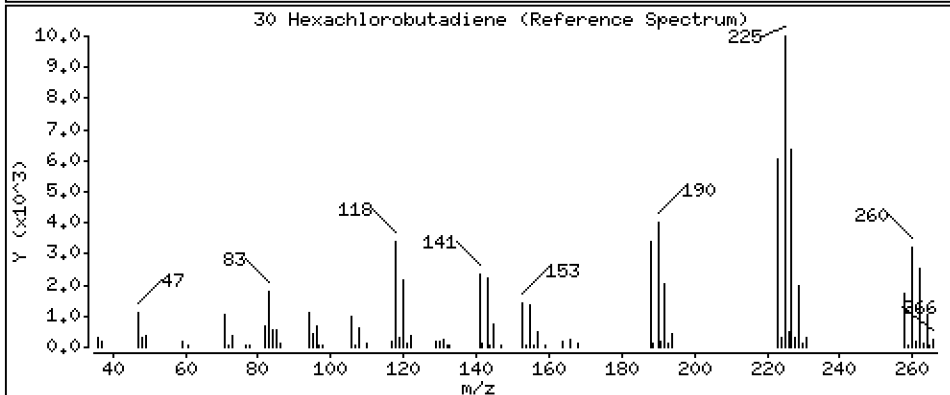
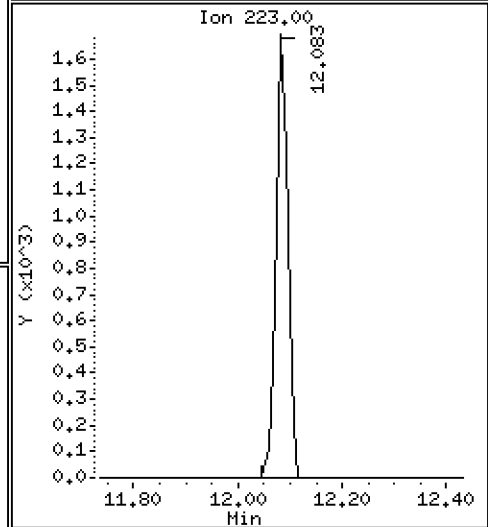
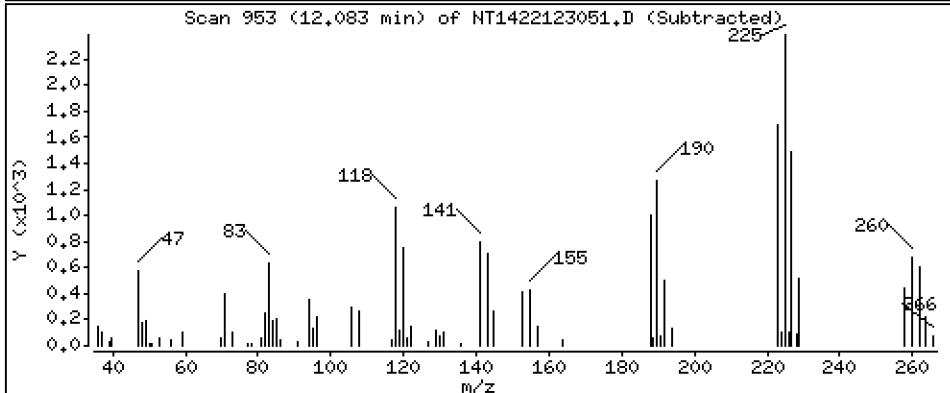
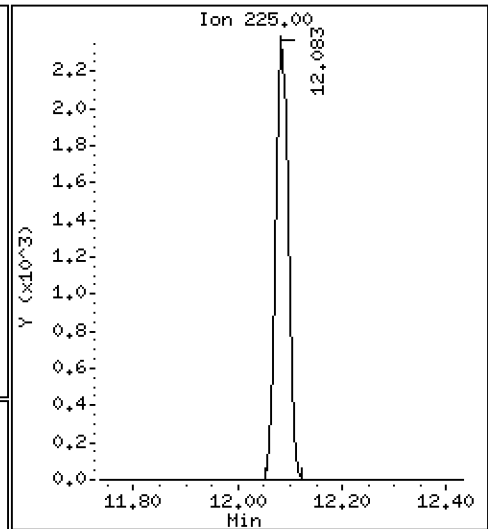
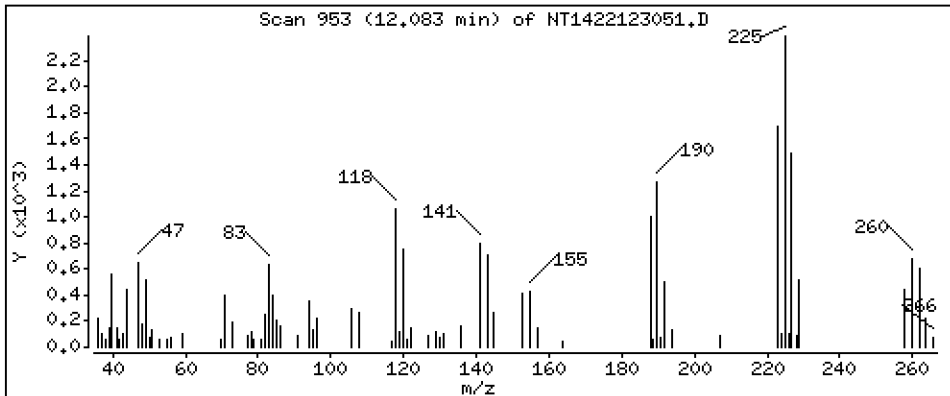
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2223 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

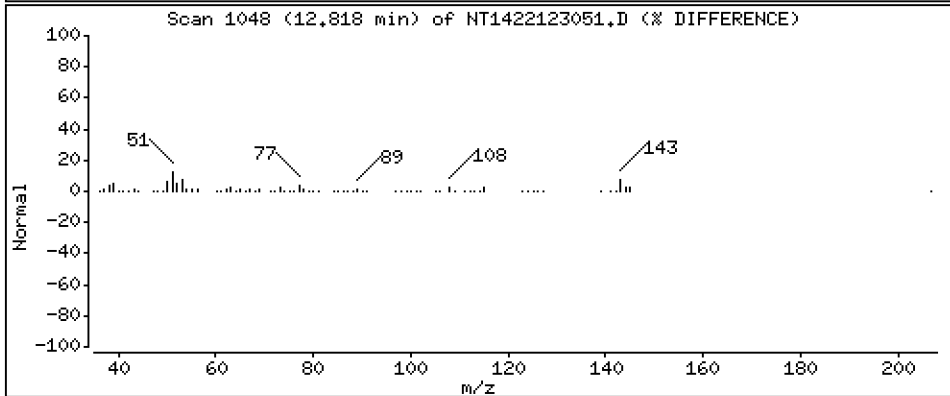
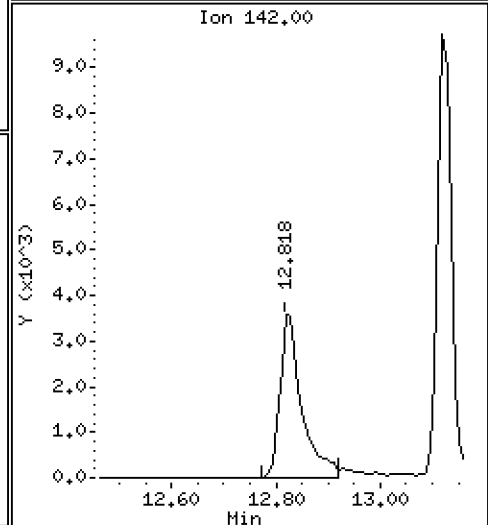
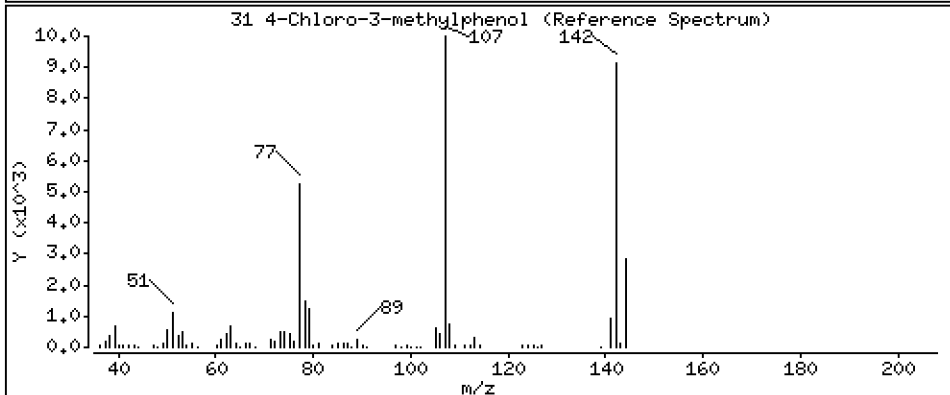
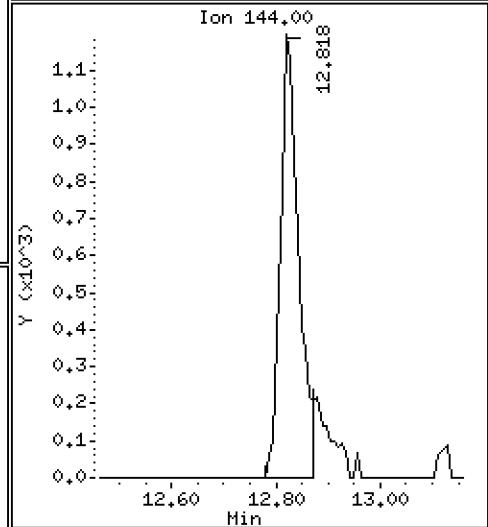
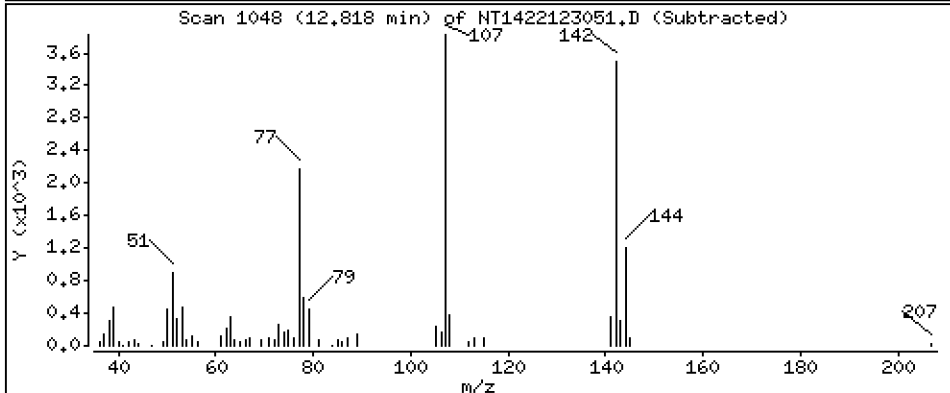
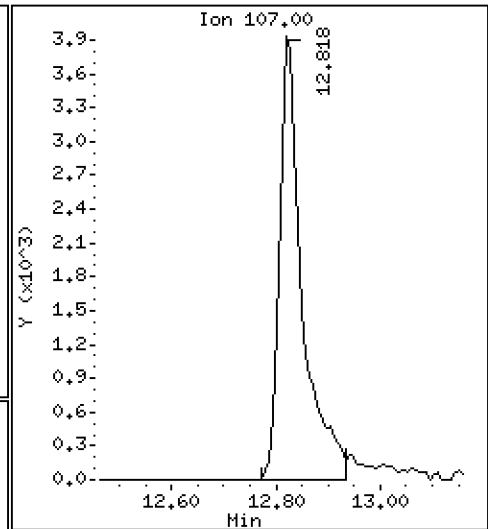
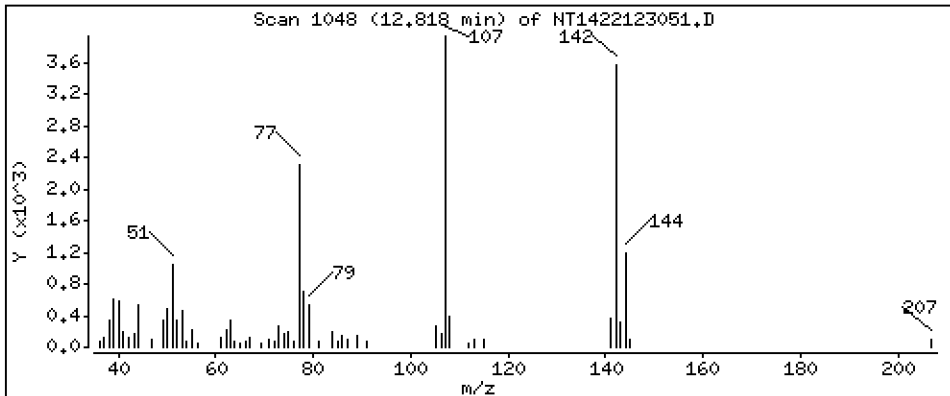
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,4010 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

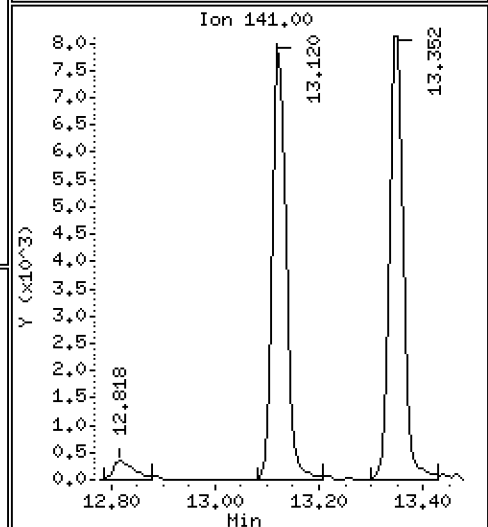
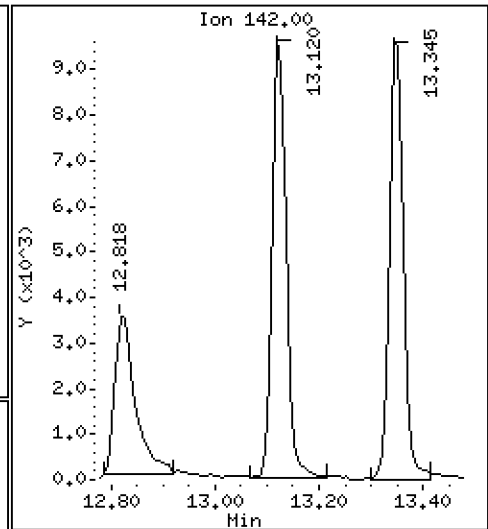
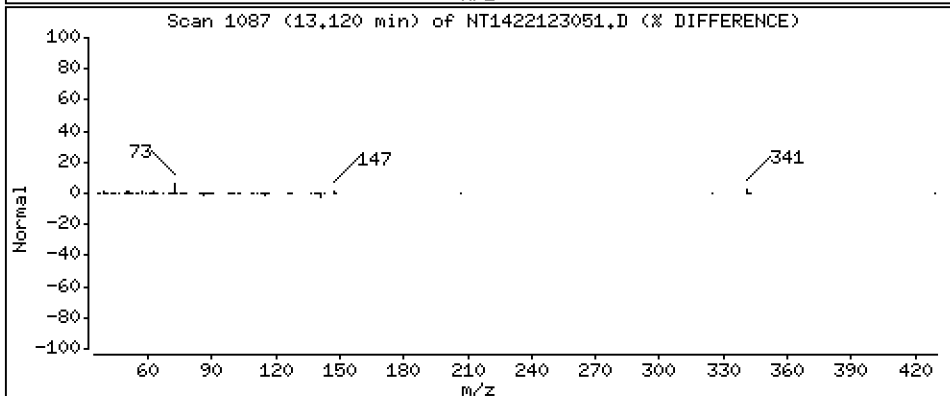
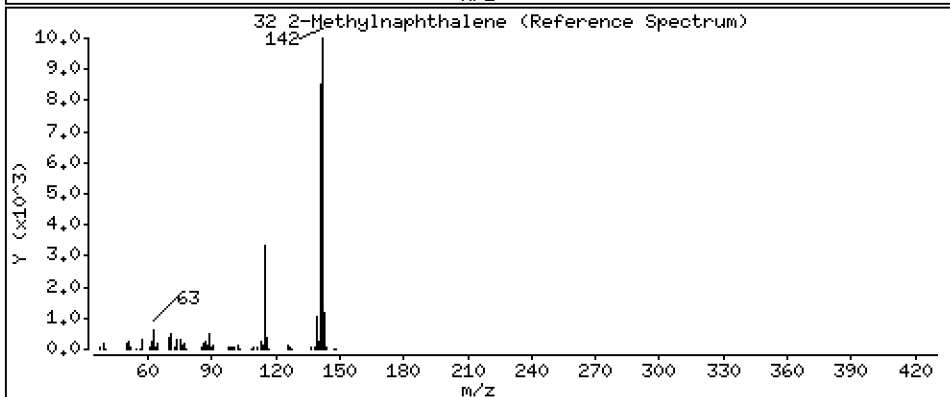
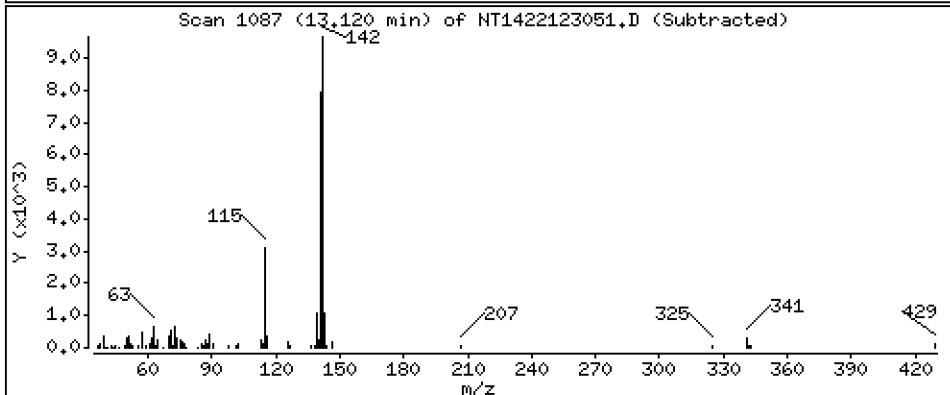
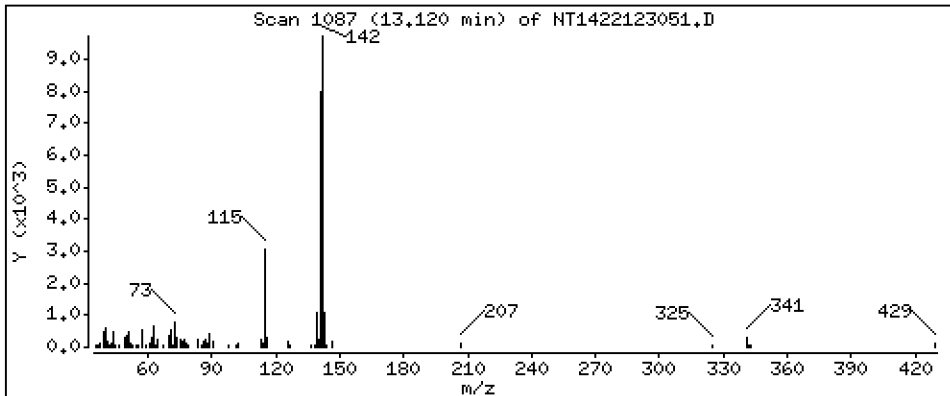
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2231 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

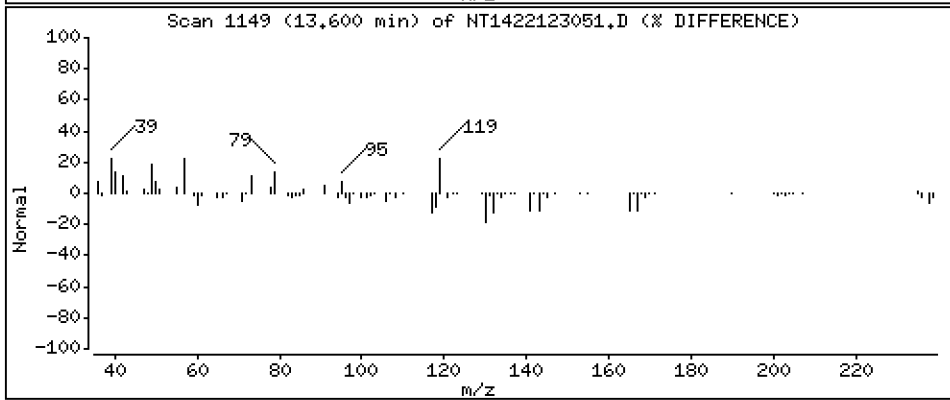
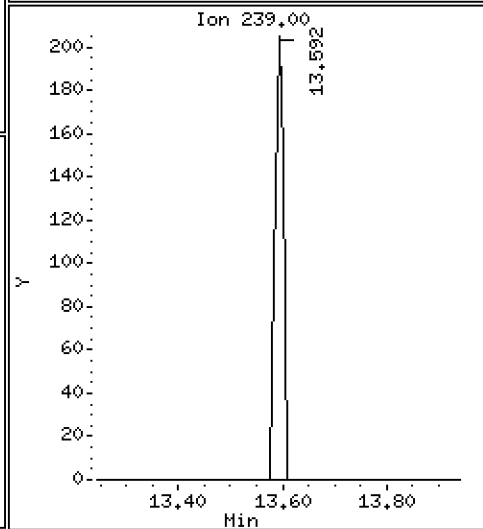
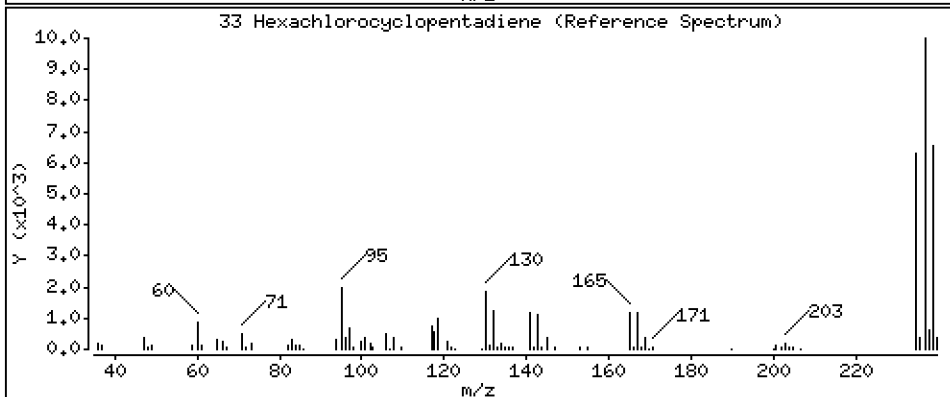
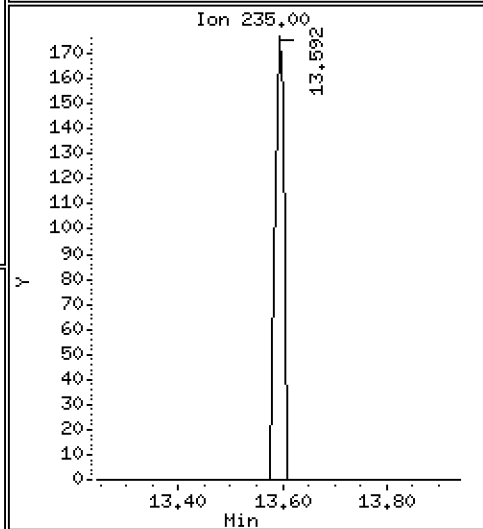
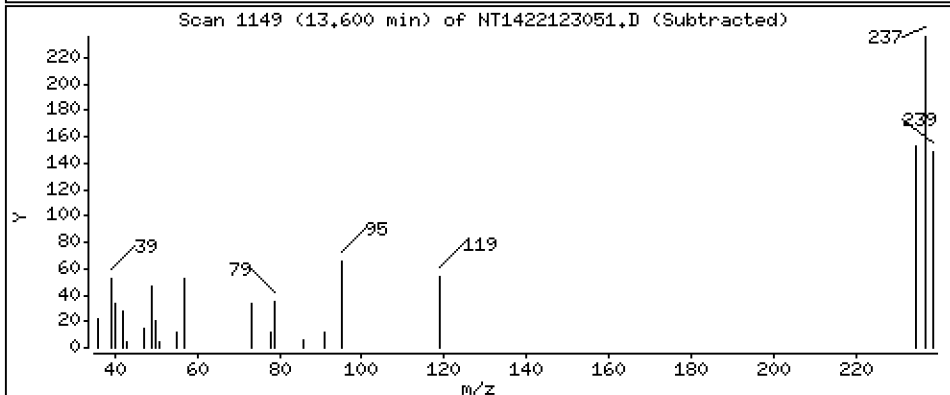
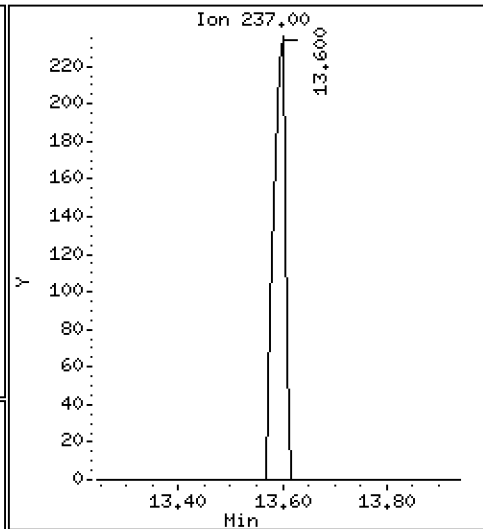
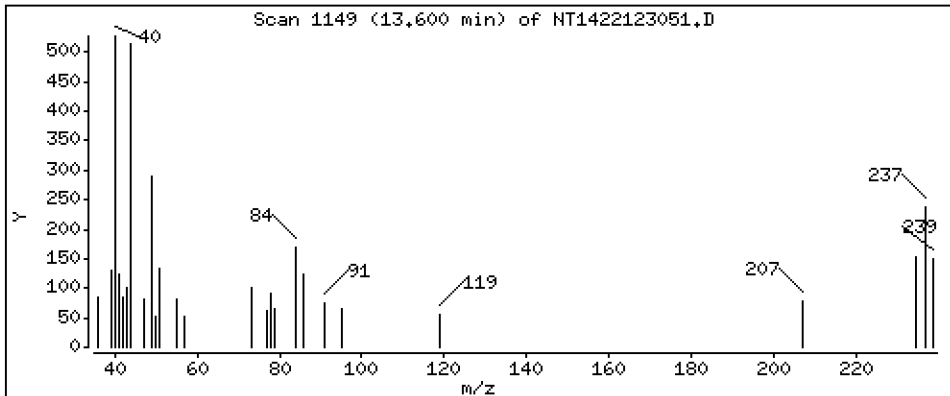
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02150 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

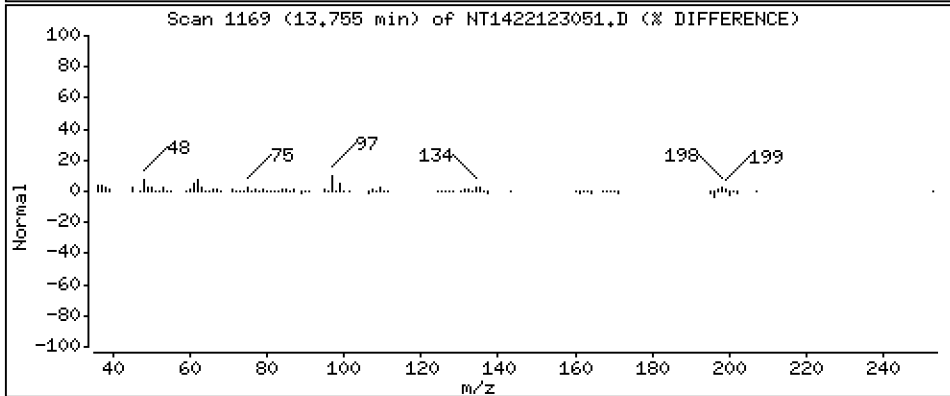
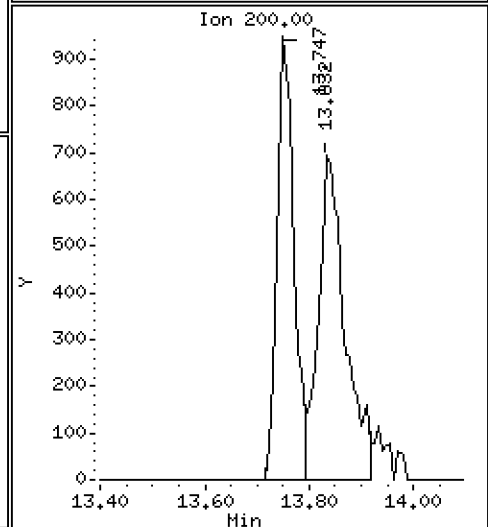
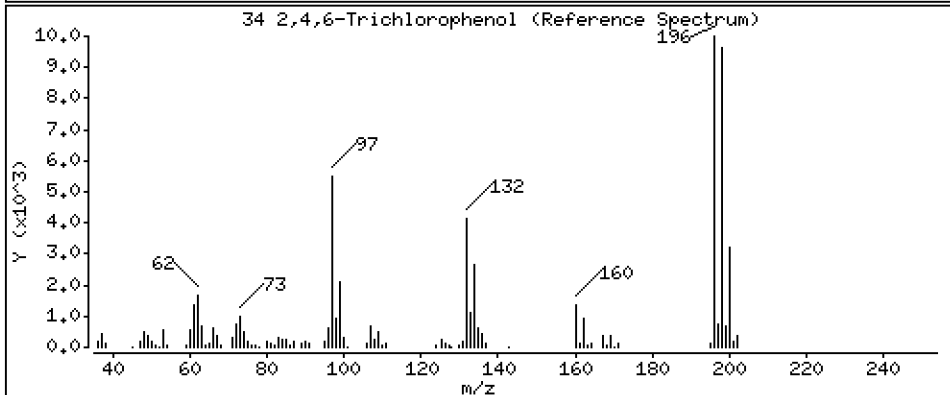
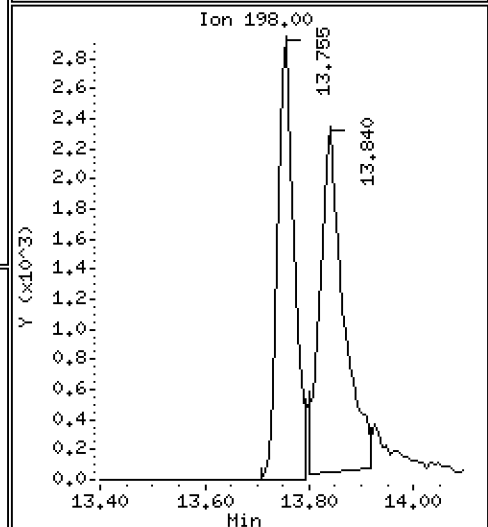
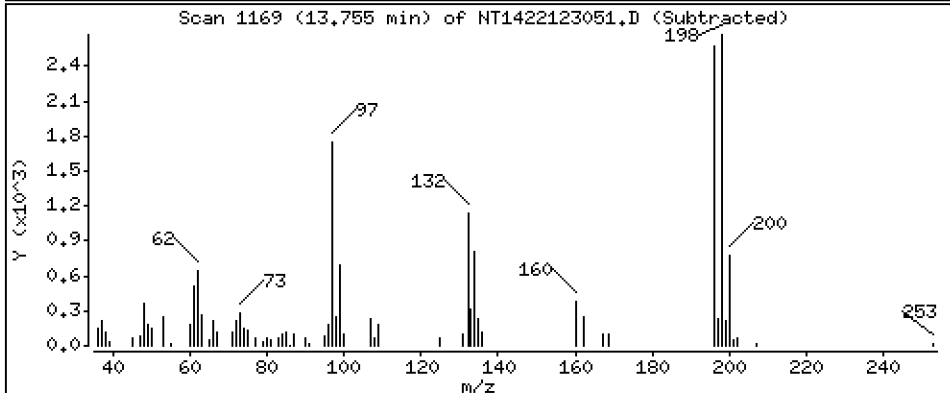
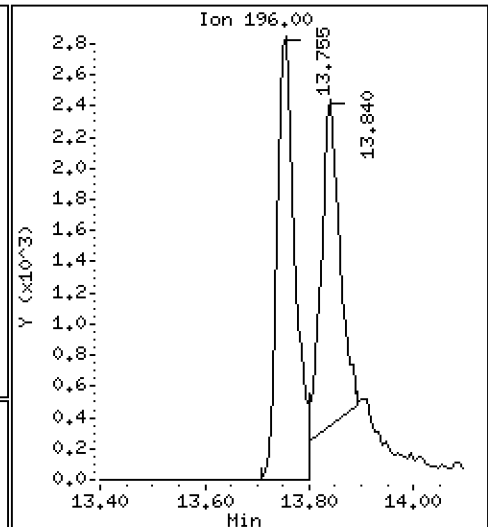
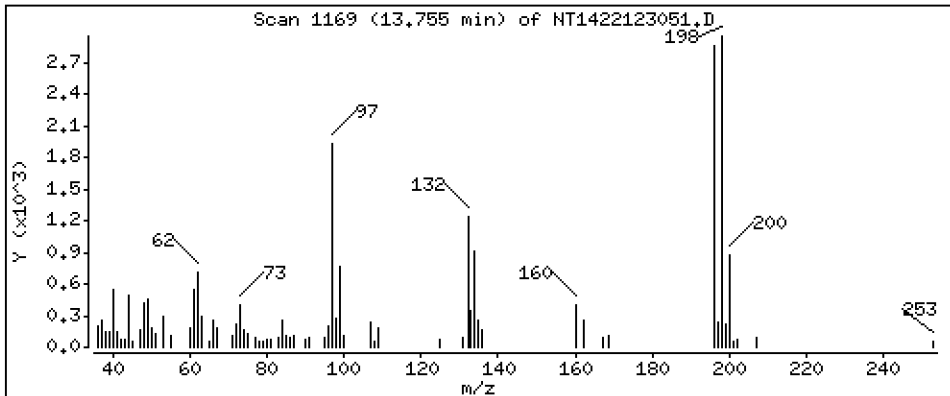
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3746 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

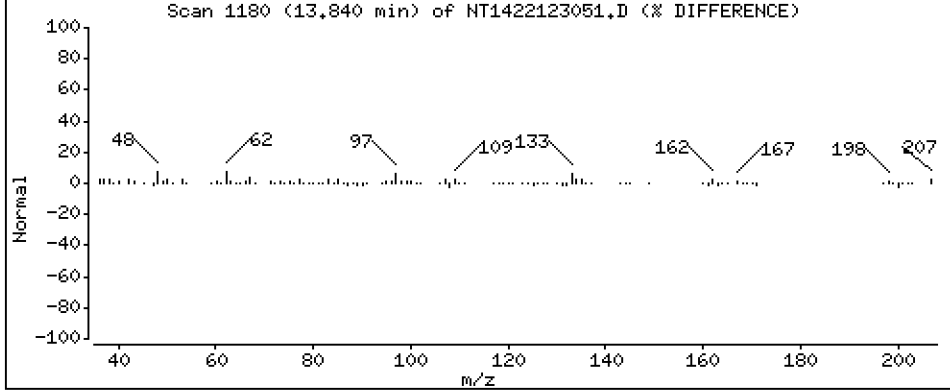
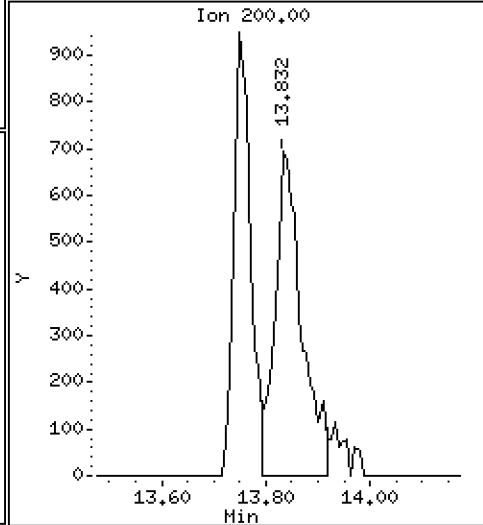
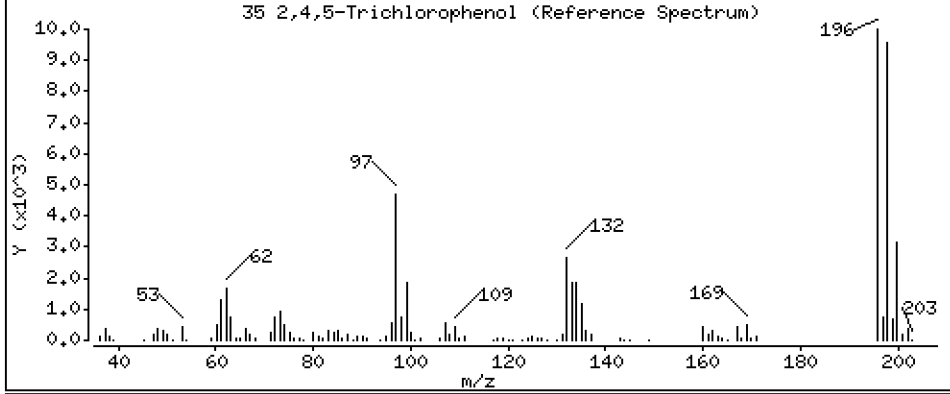
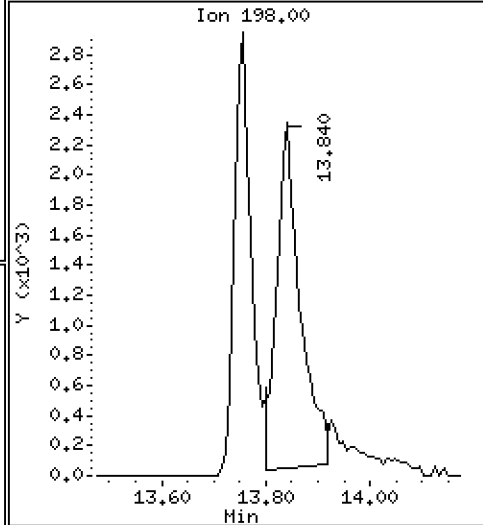
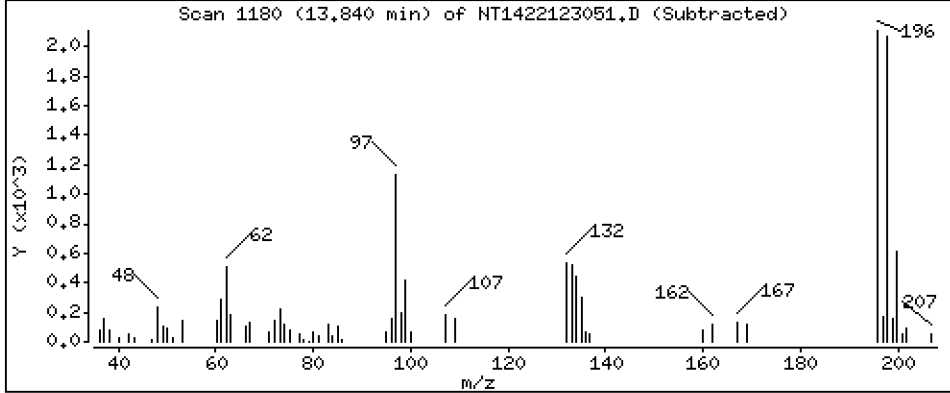
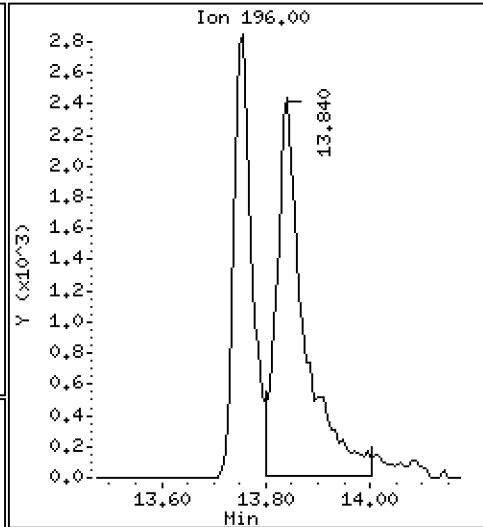
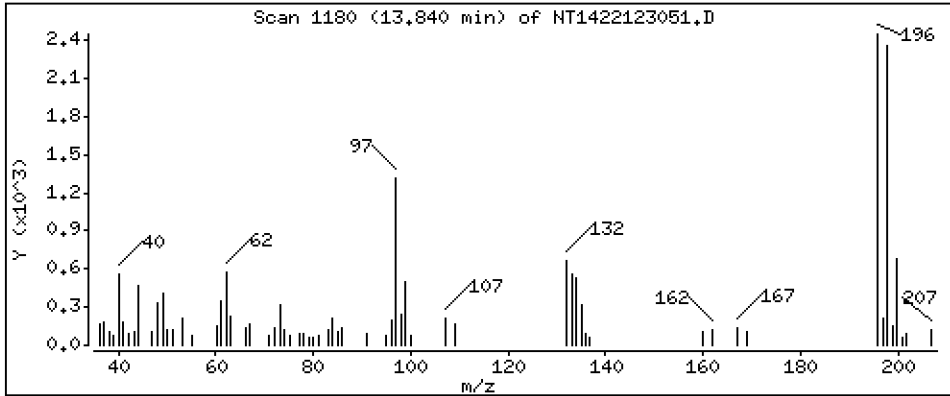
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.4316 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

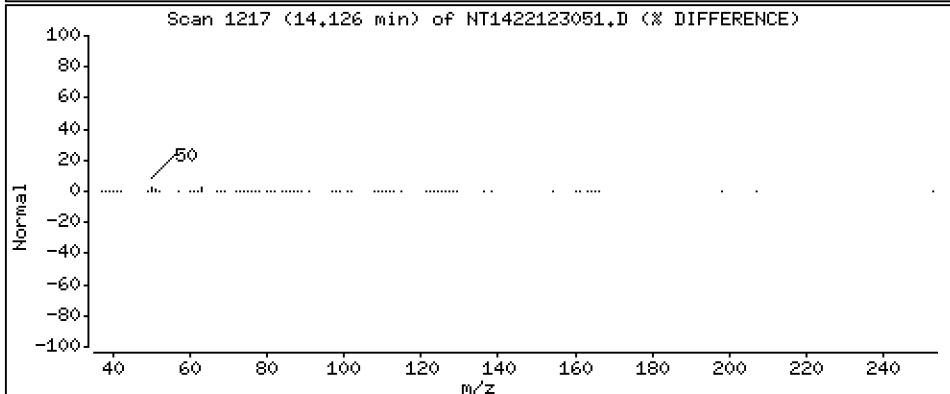
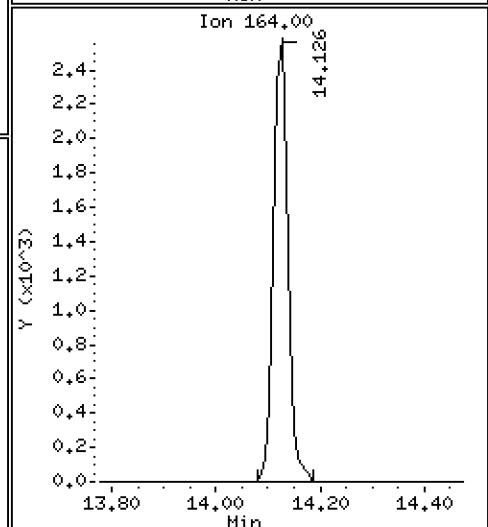
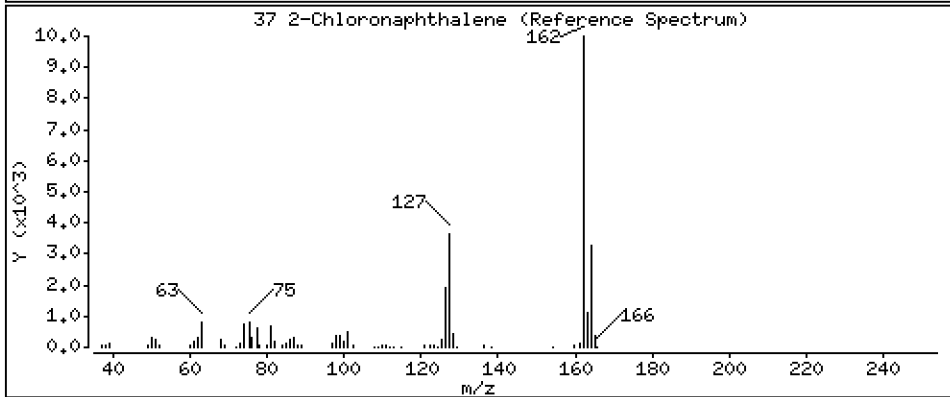
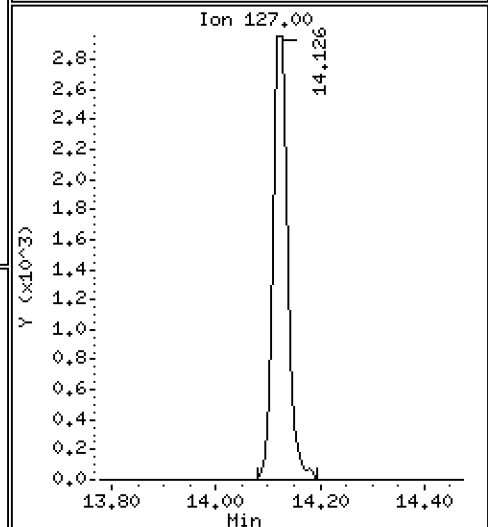
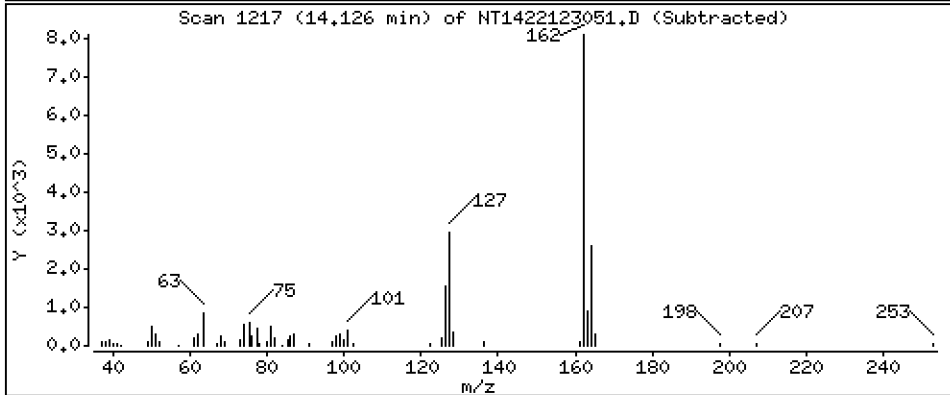
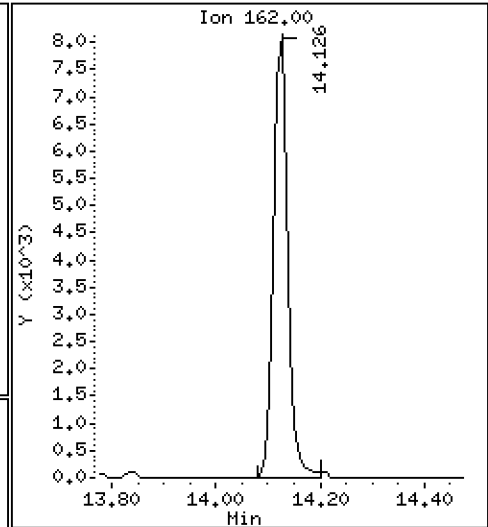
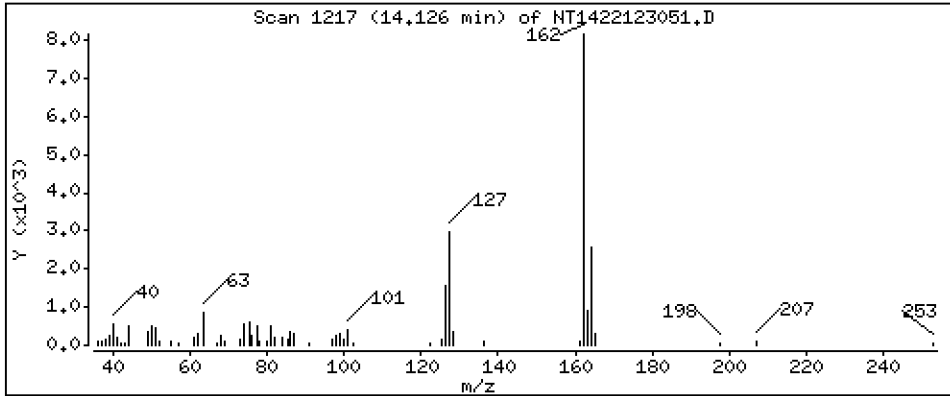
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2372 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

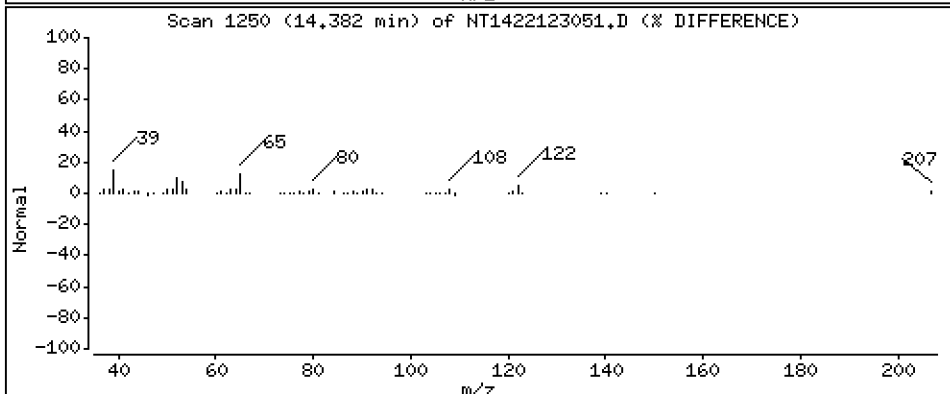
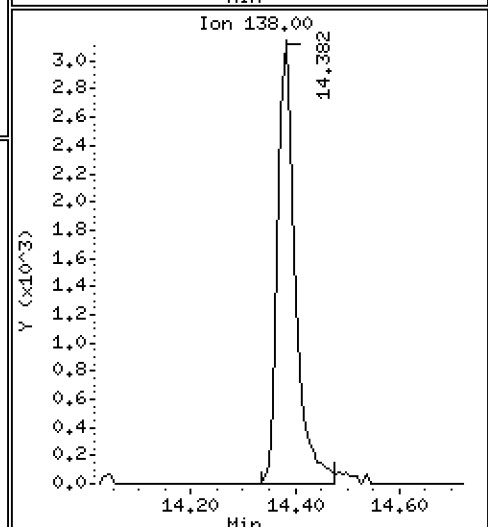
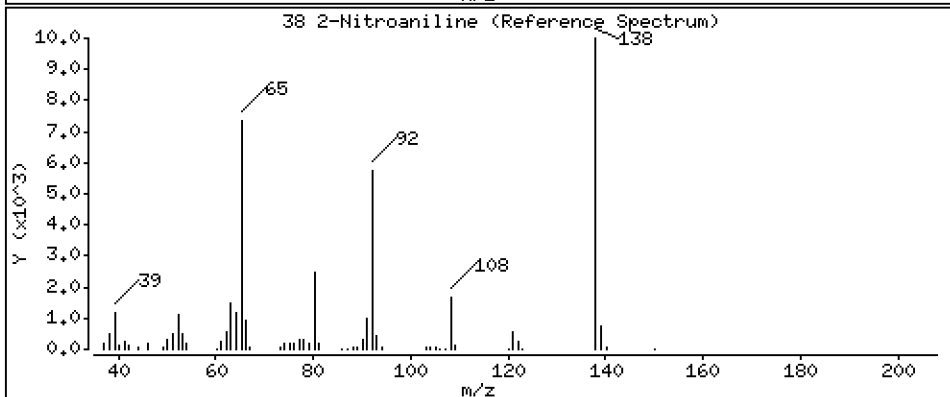
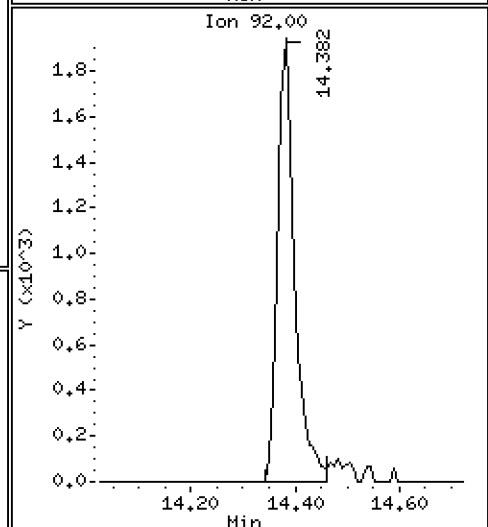
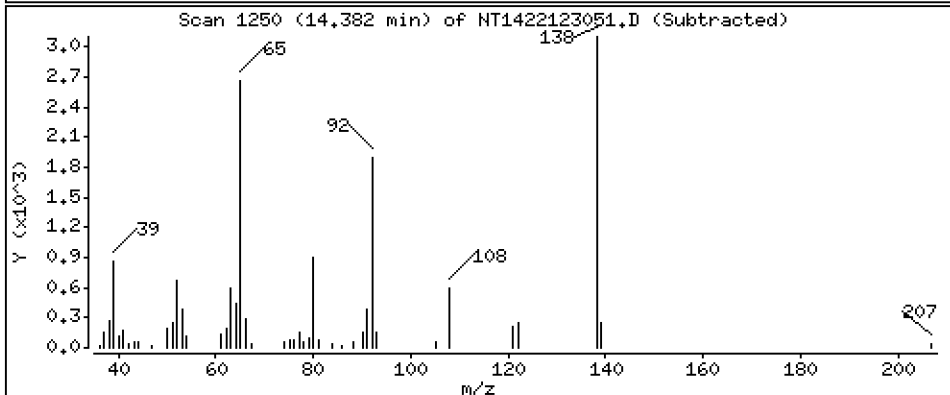
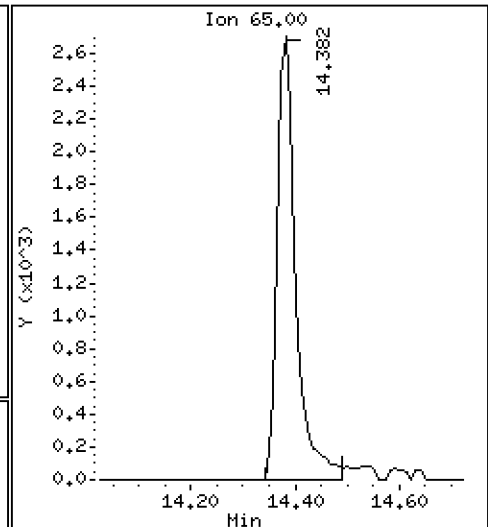
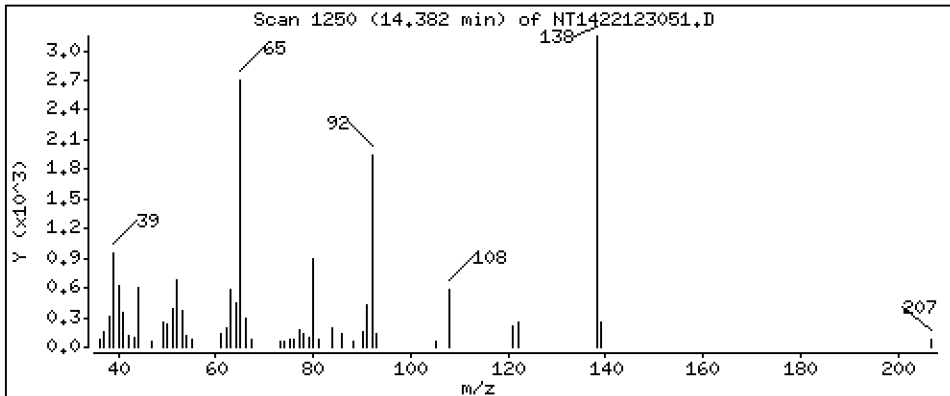
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3972 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

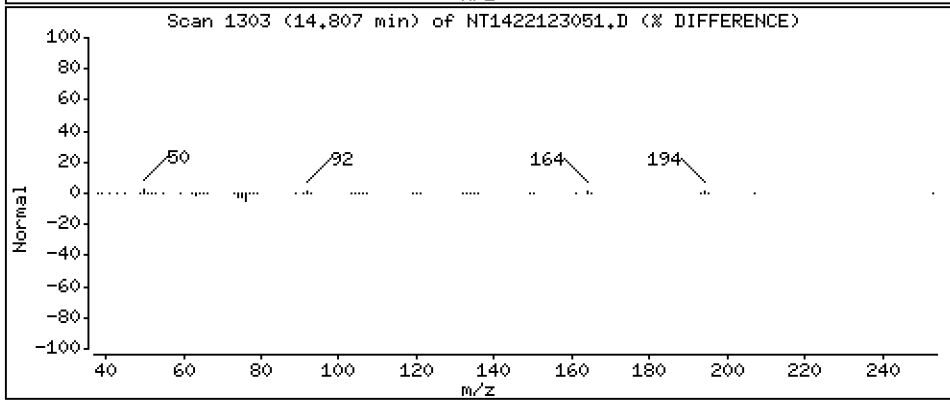
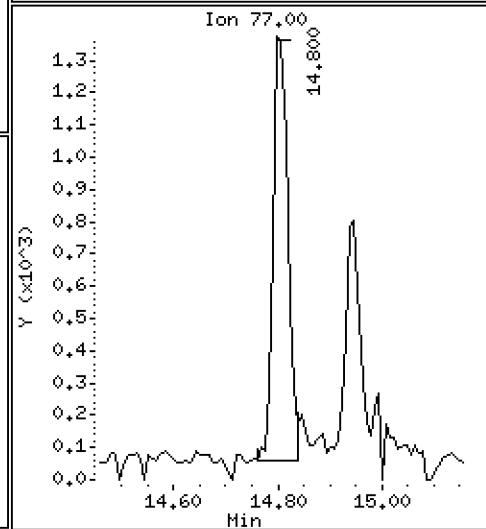
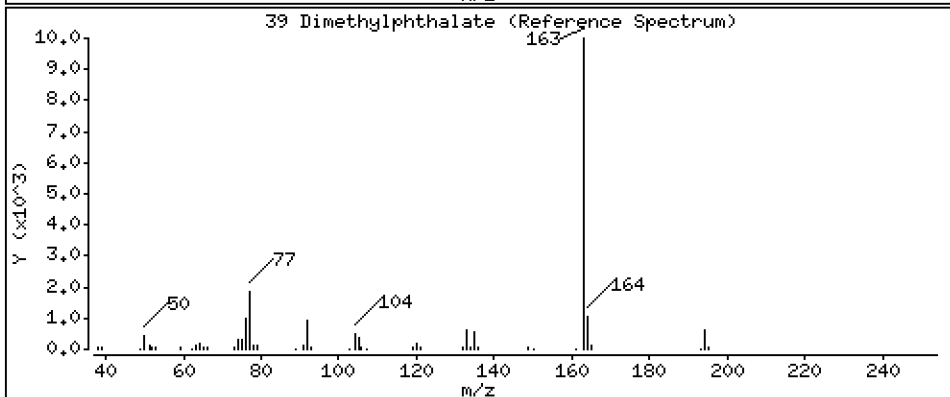
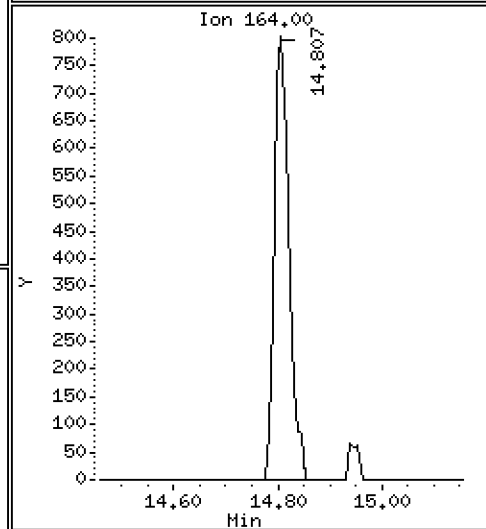
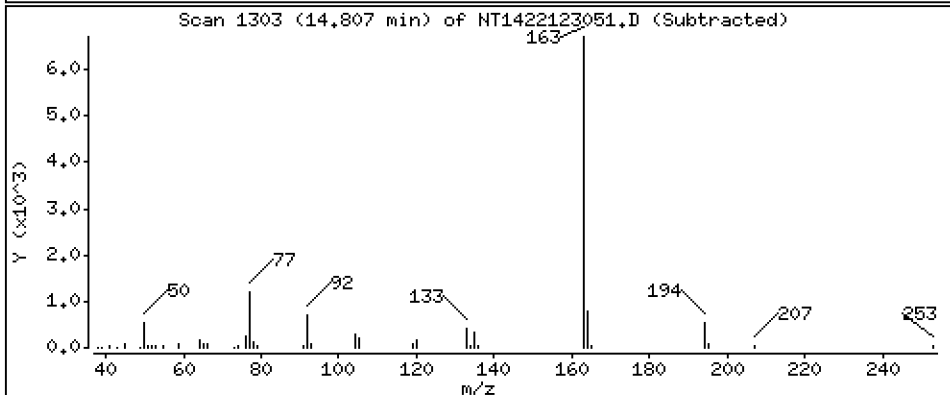
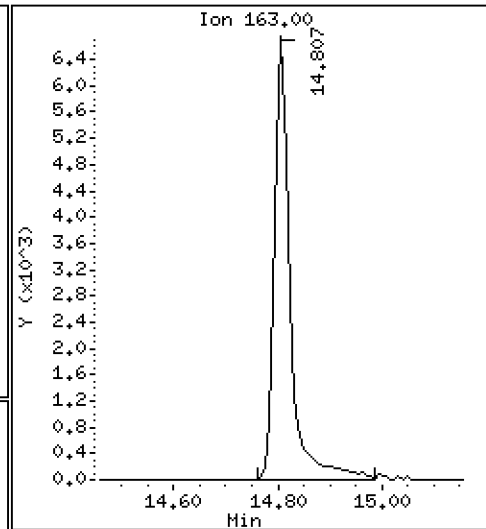
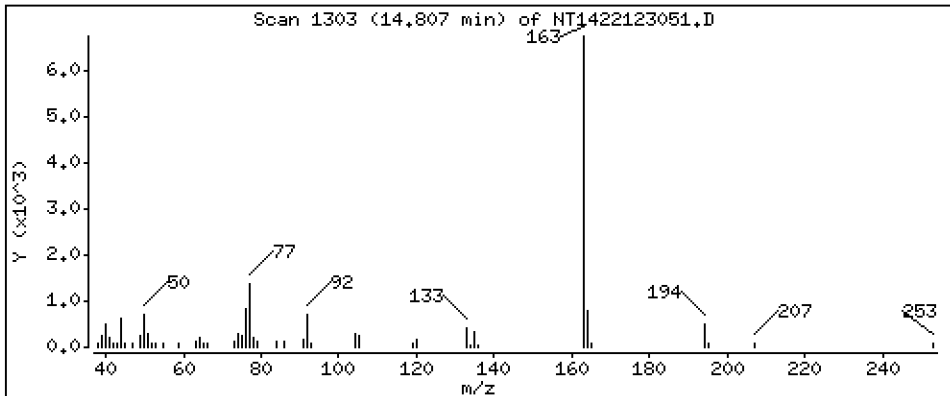
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2231 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

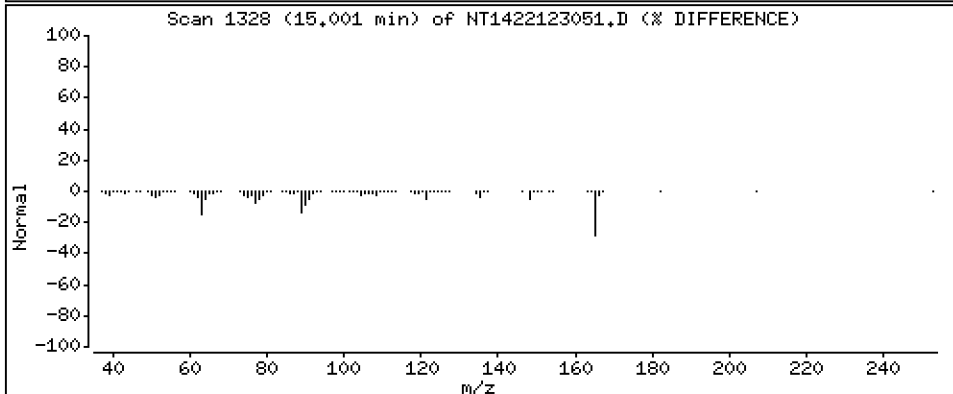
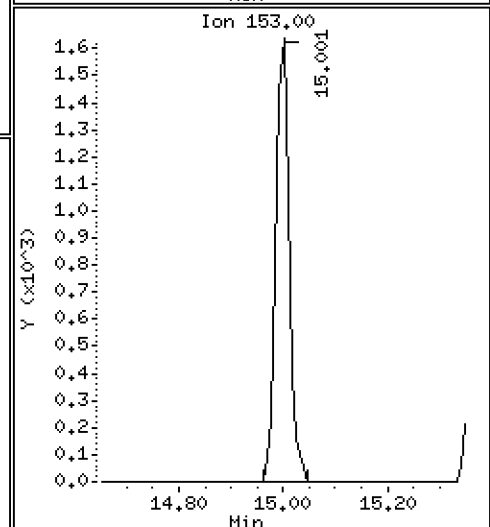
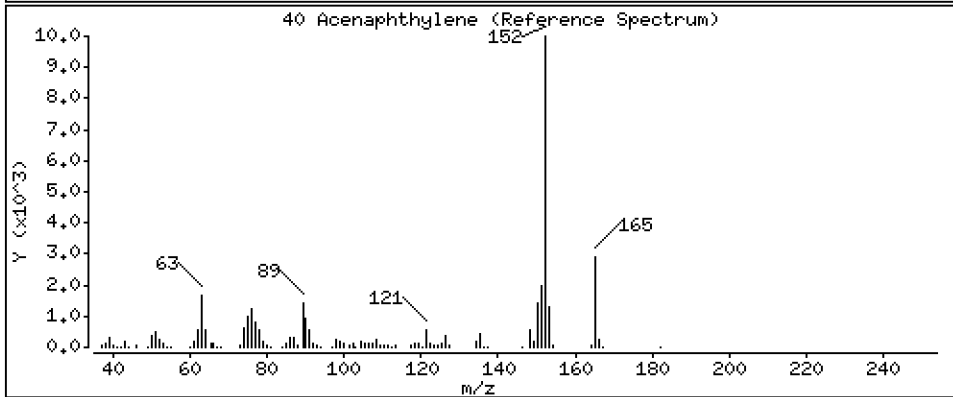
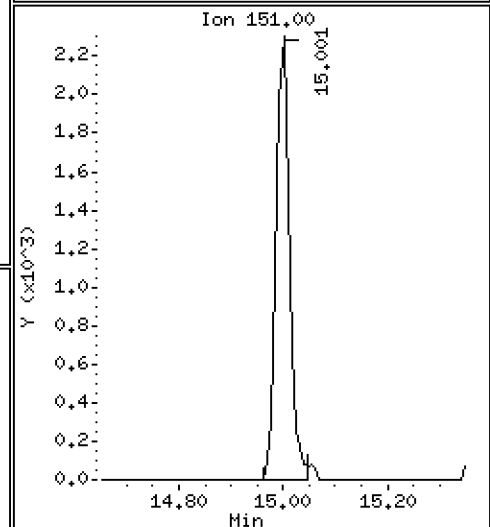
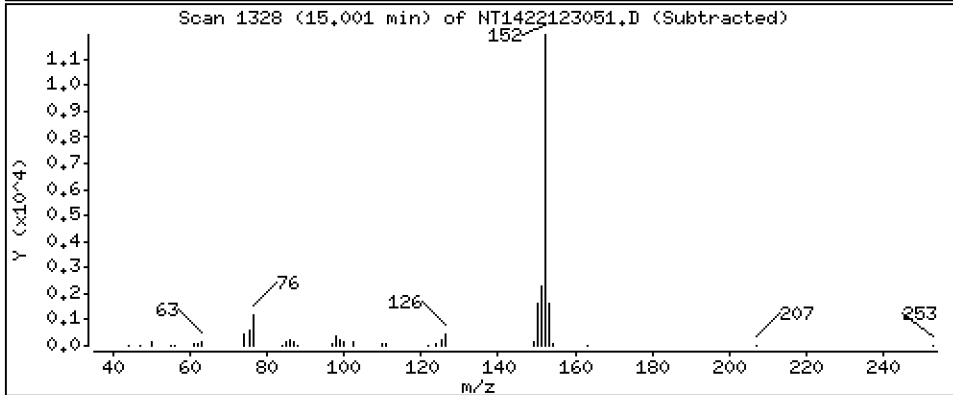
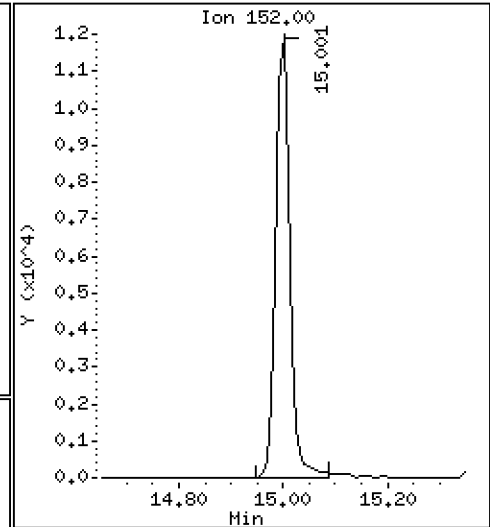
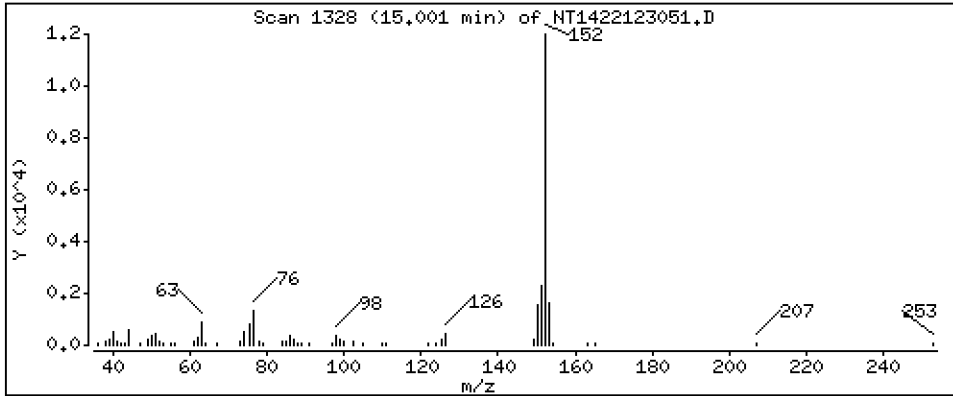
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2256 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

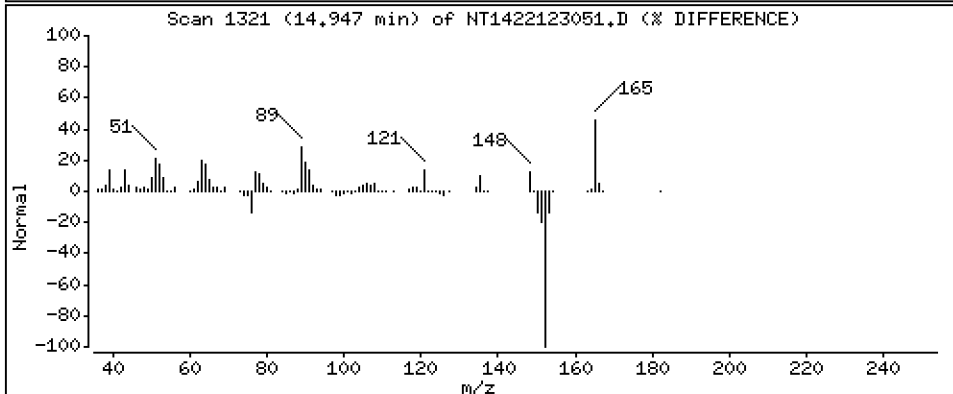
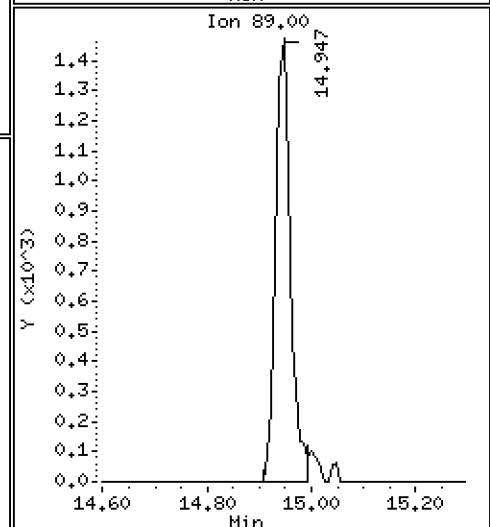
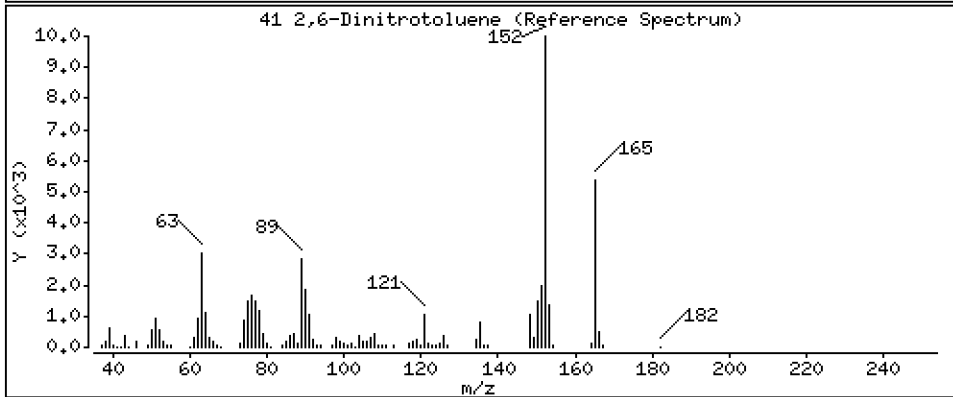
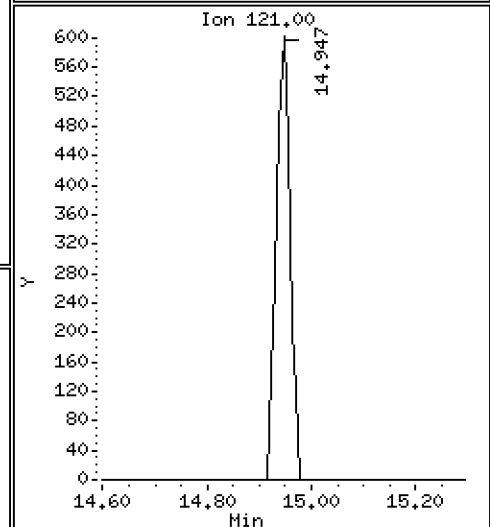
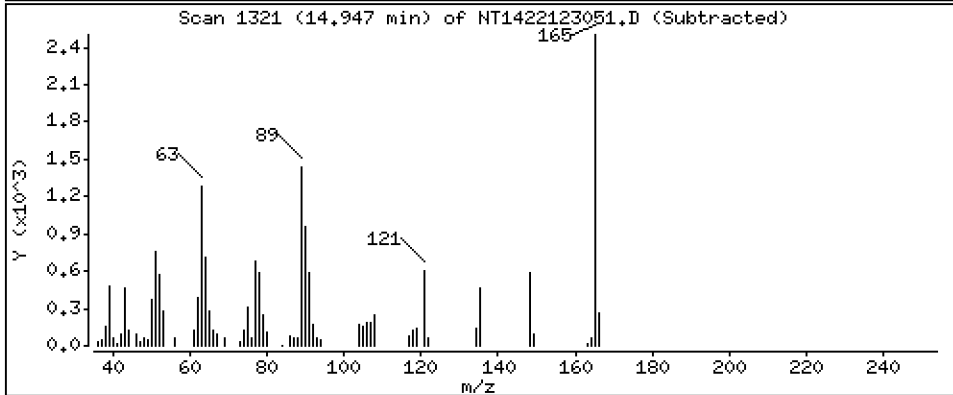
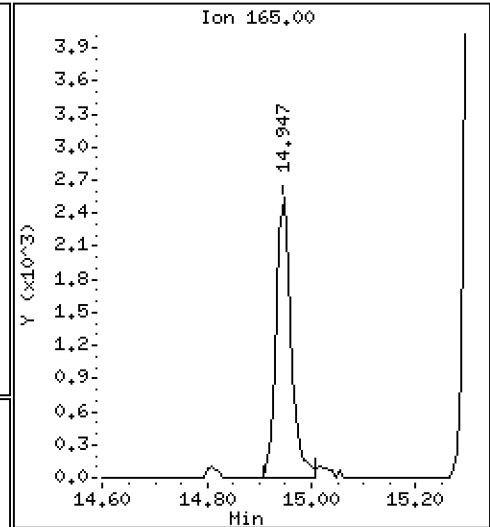
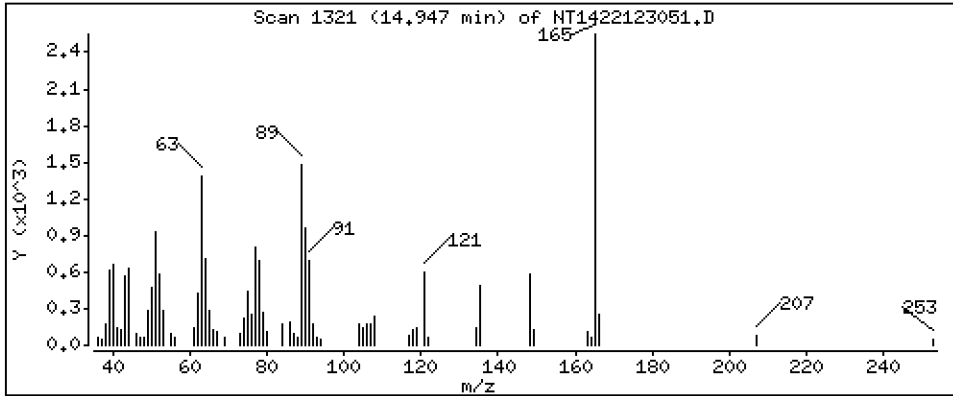
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3515 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

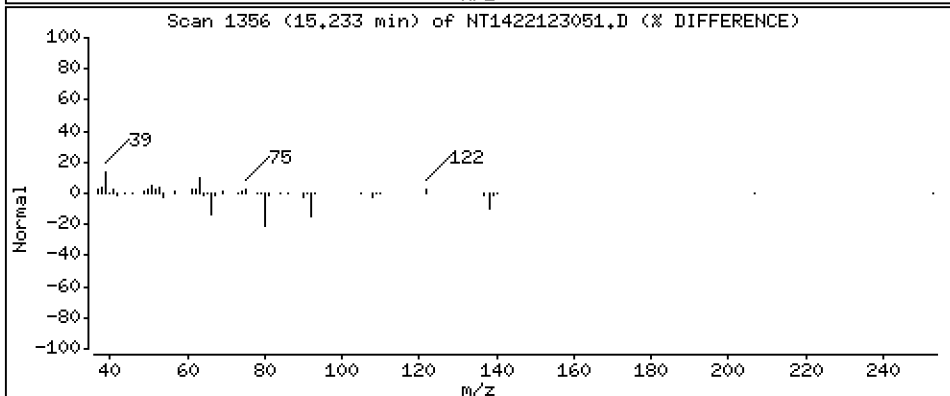
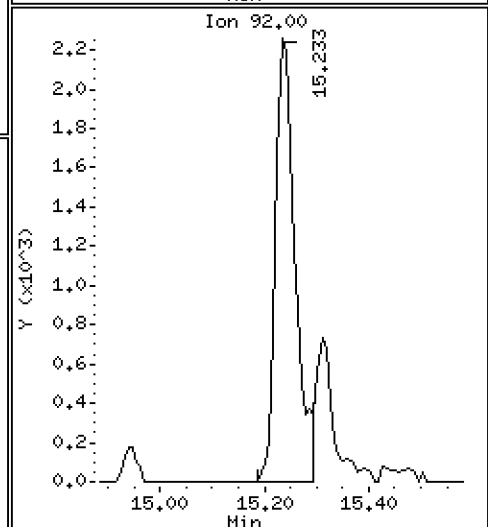
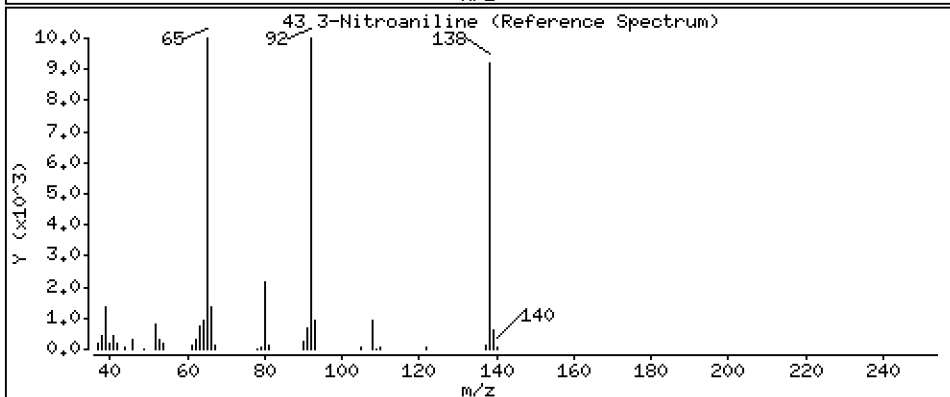
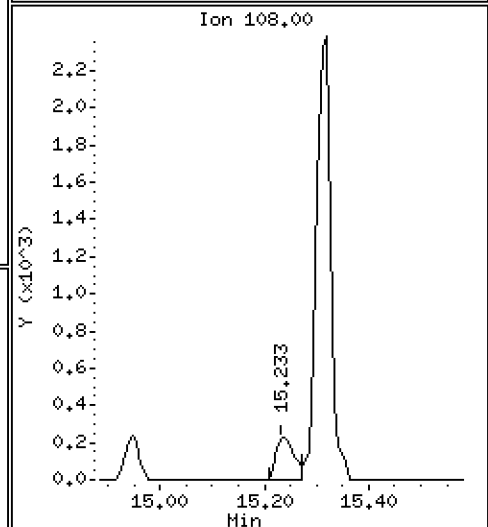
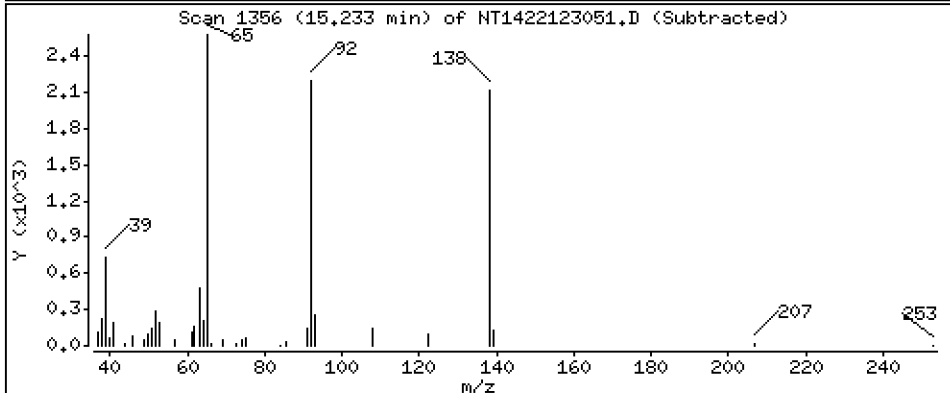
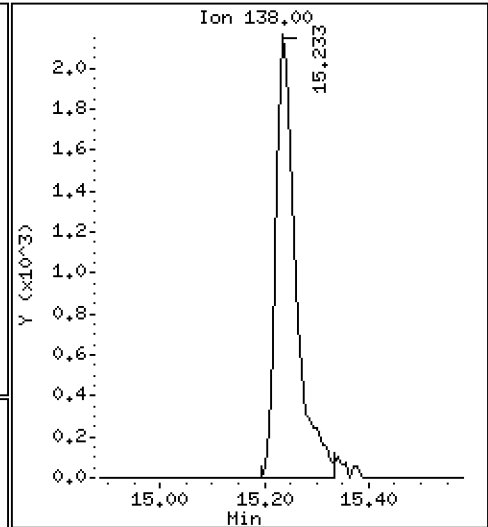
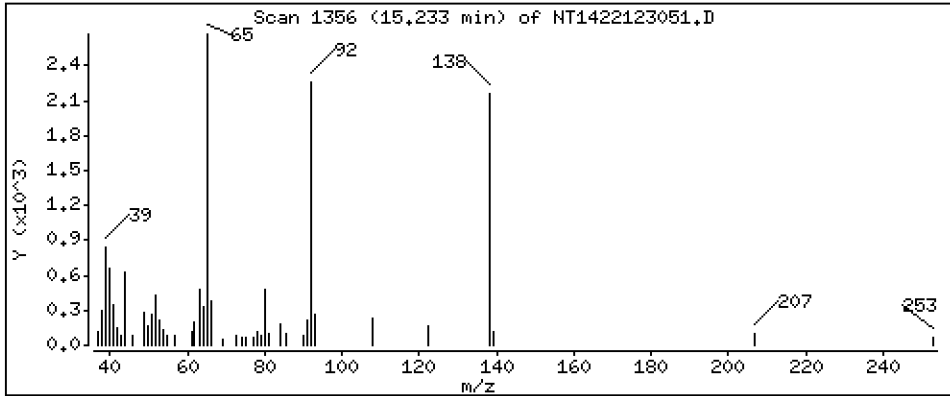
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3370 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

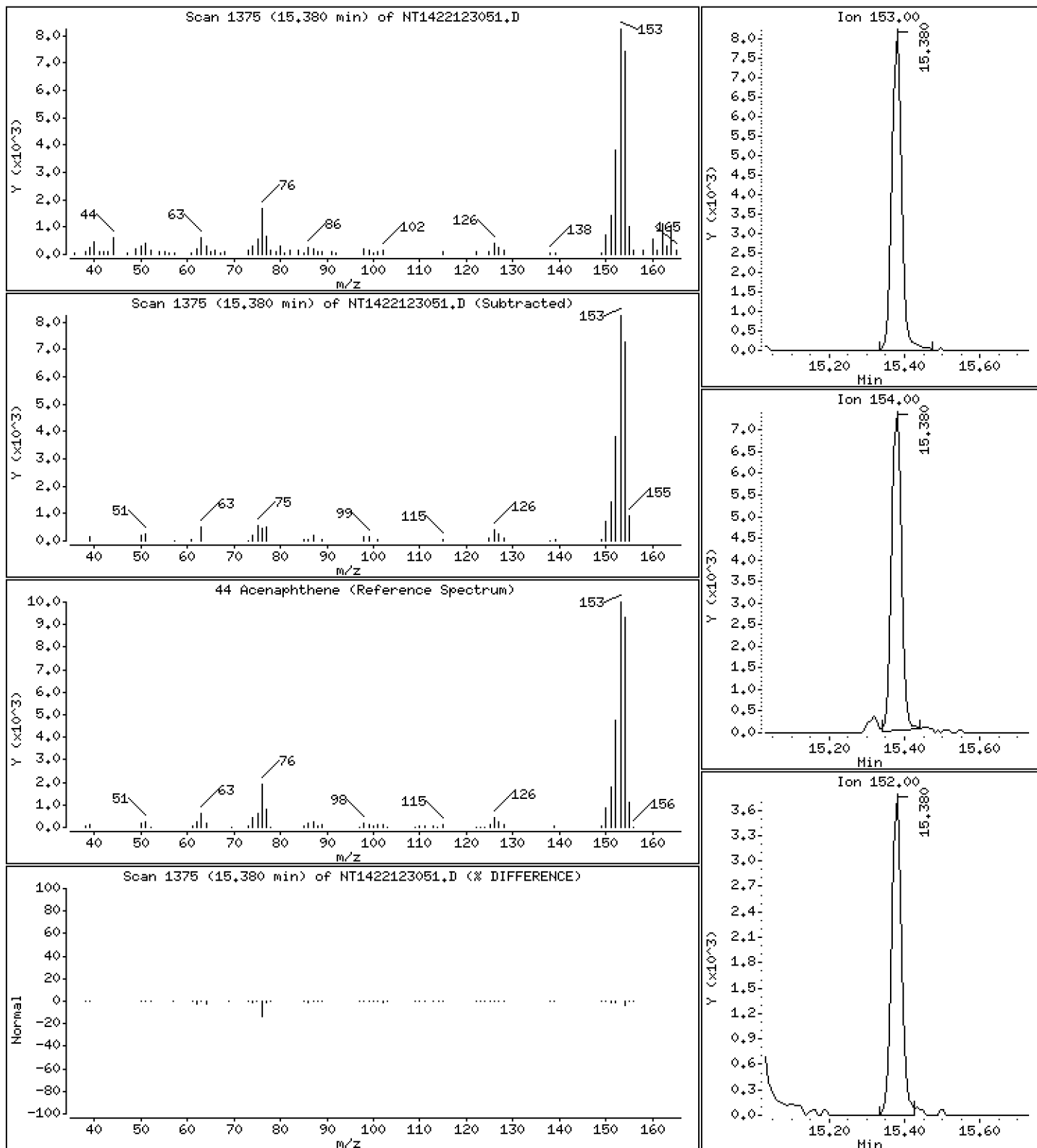
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2351 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

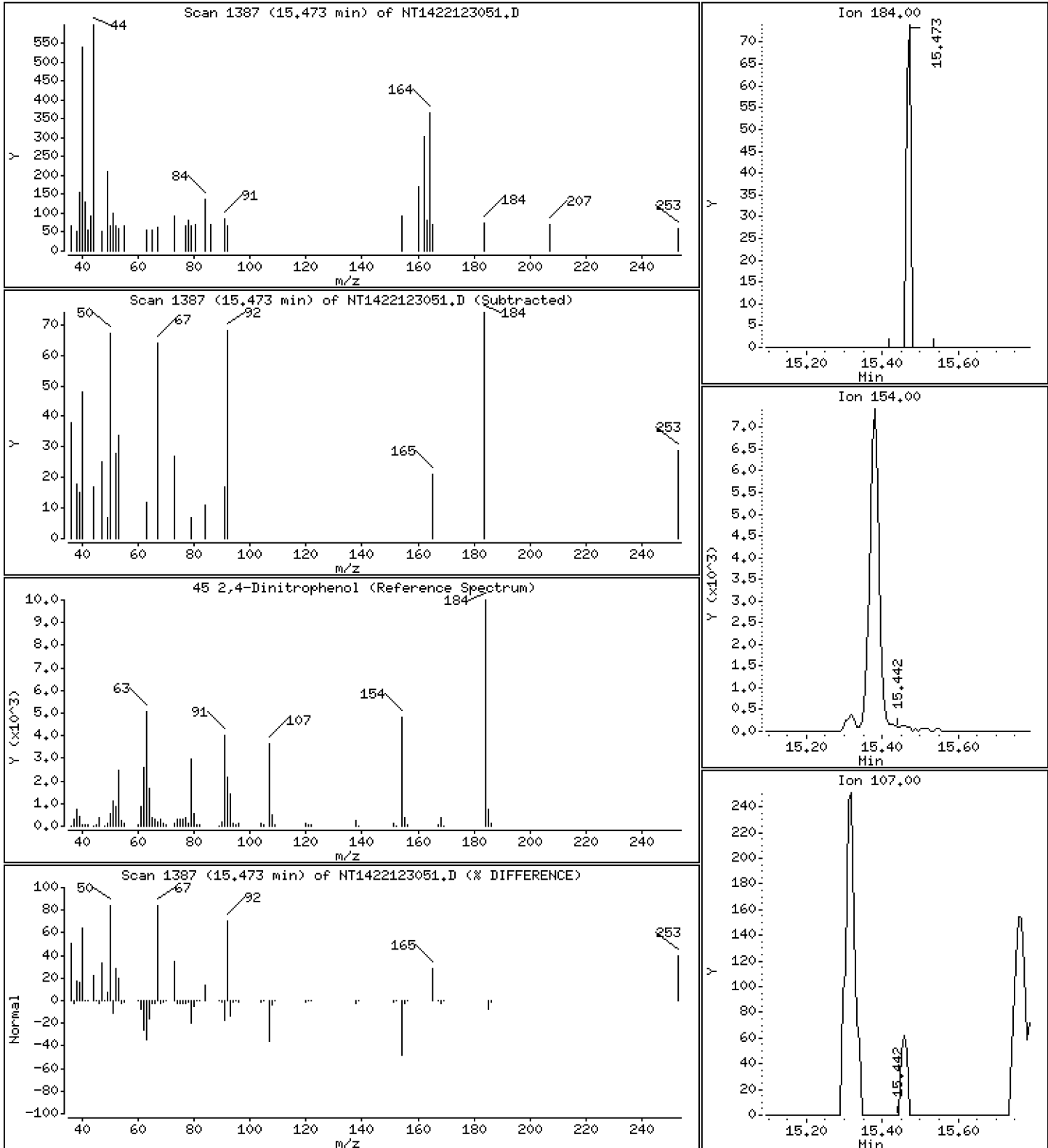
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,005296 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

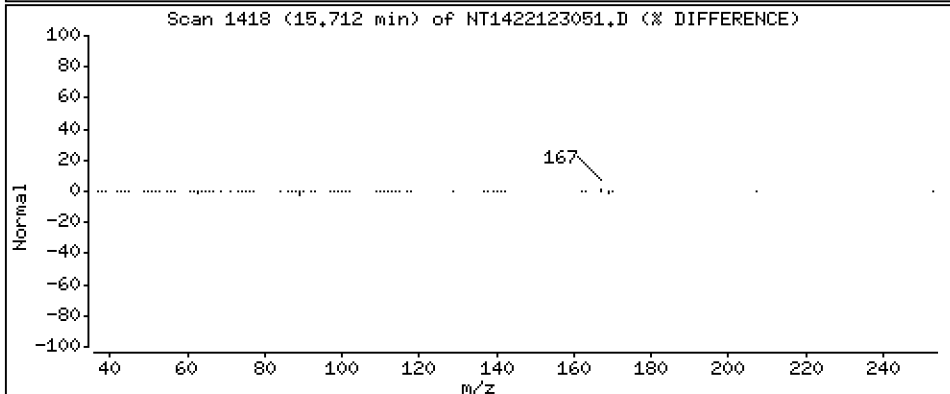
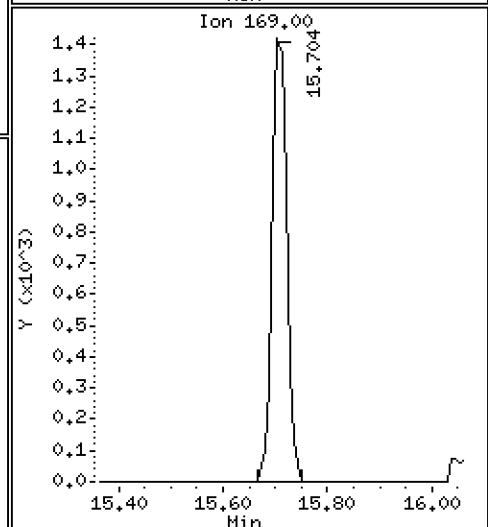
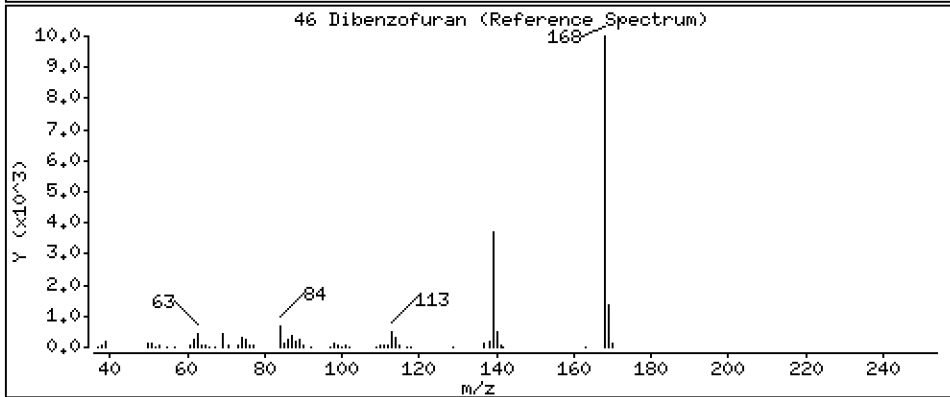
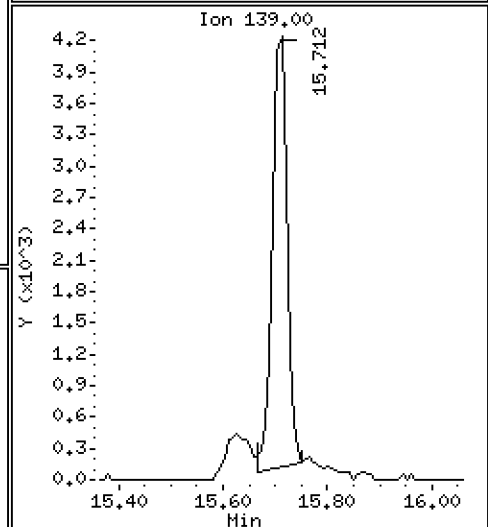
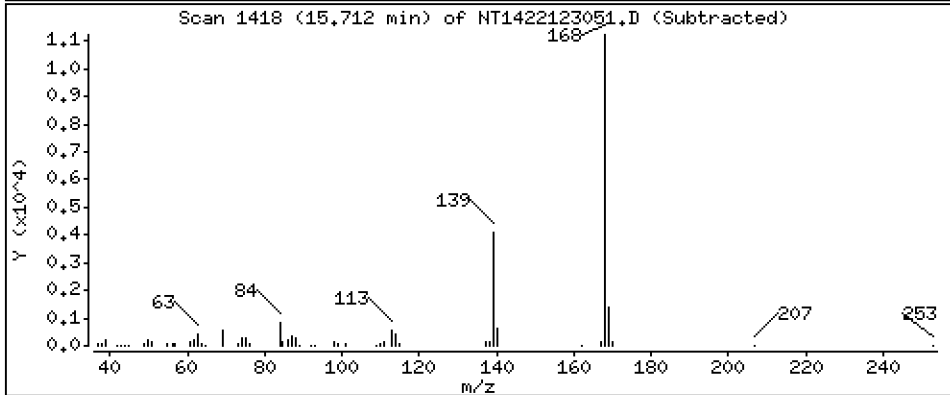
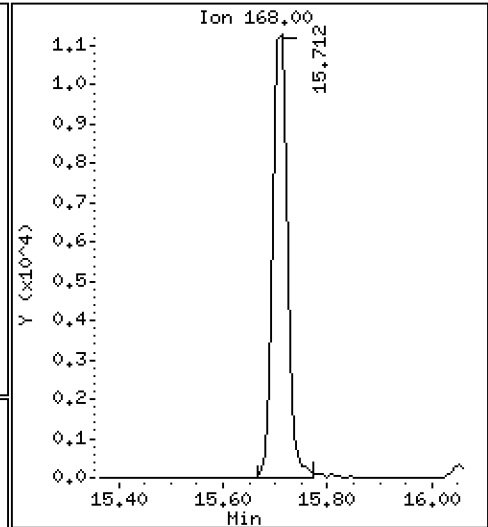
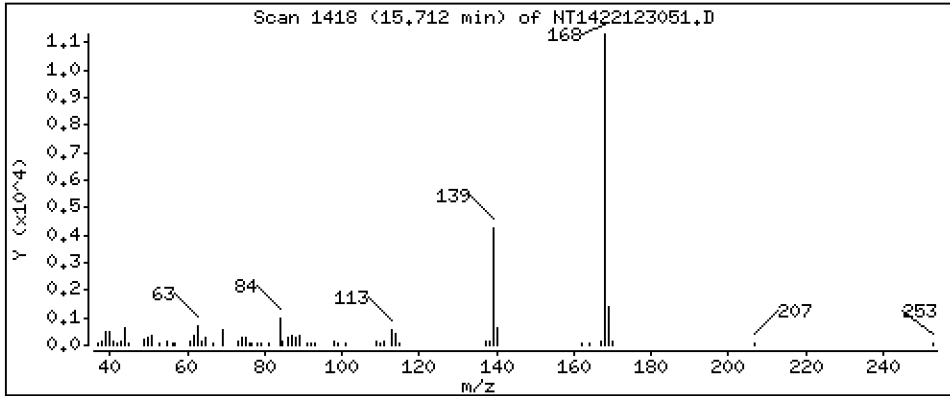
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2405 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

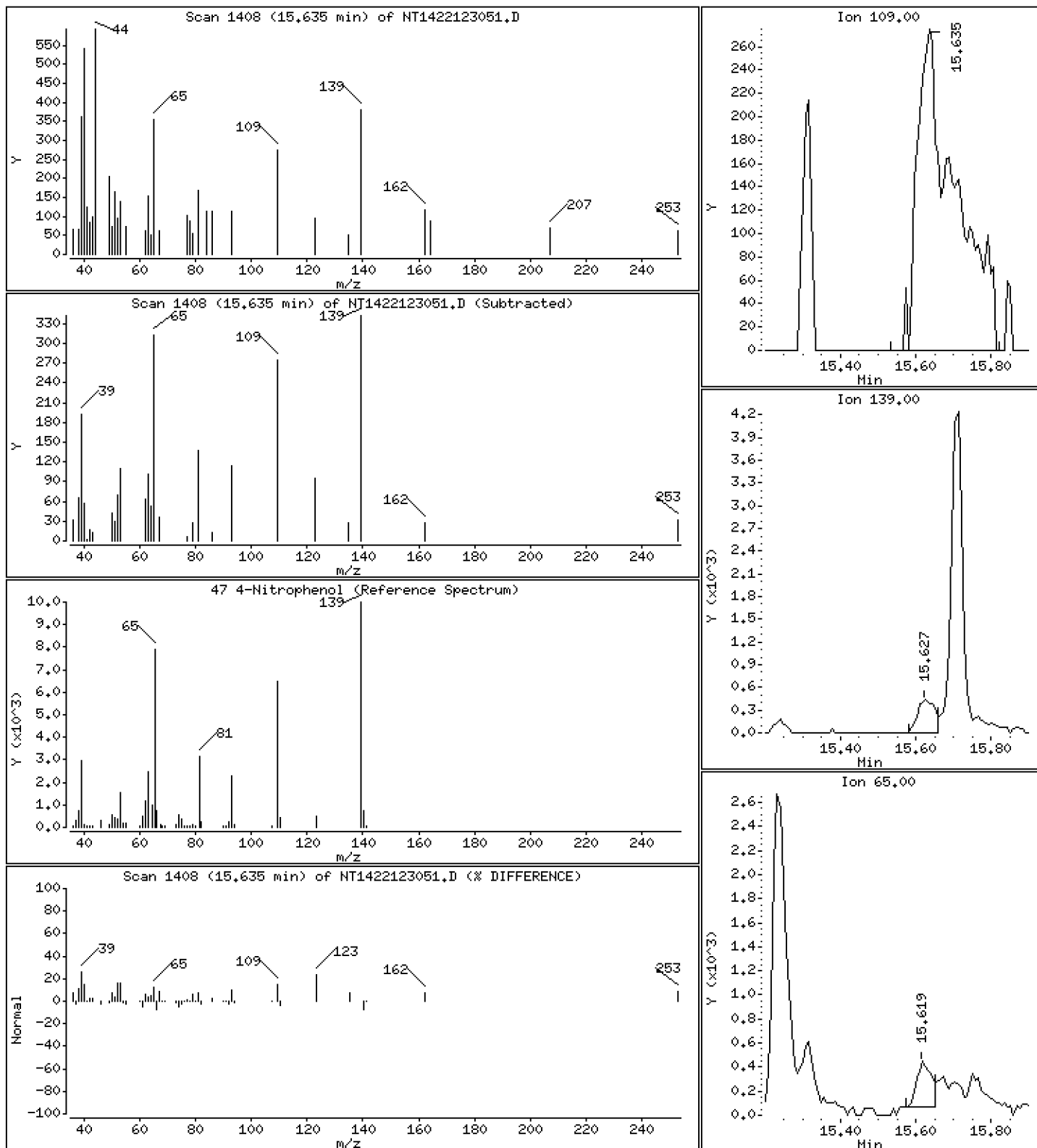
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,2375 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

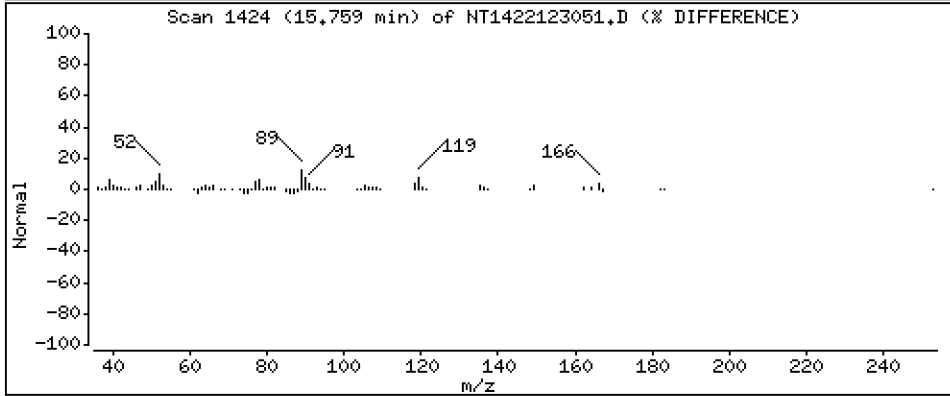
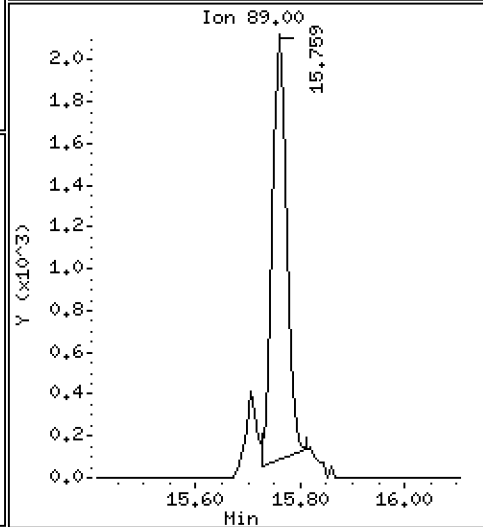
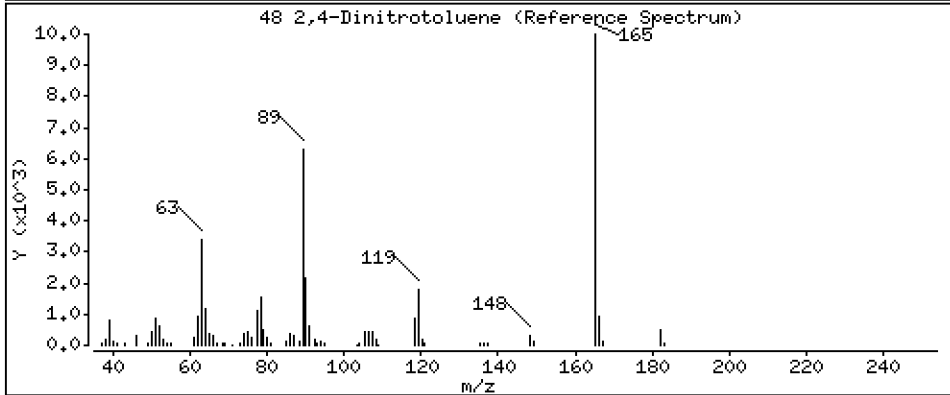
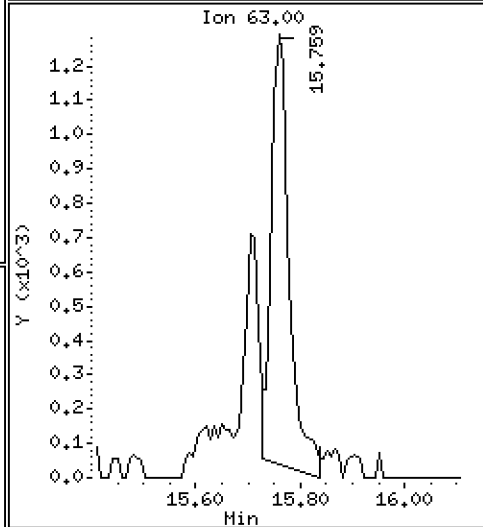
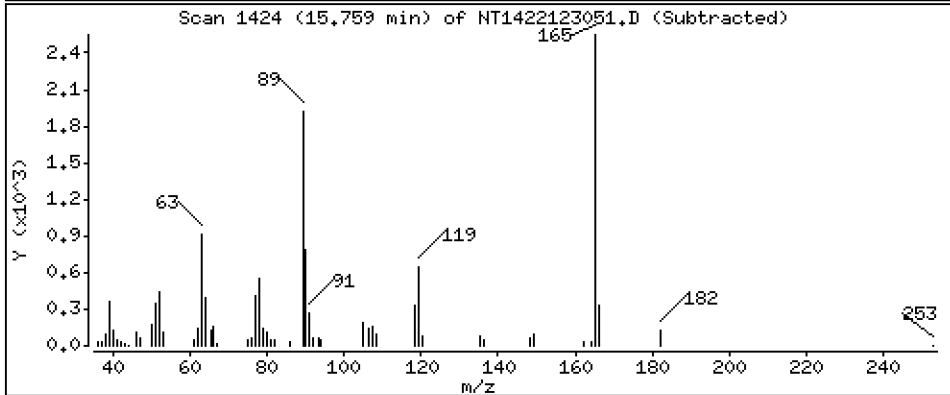
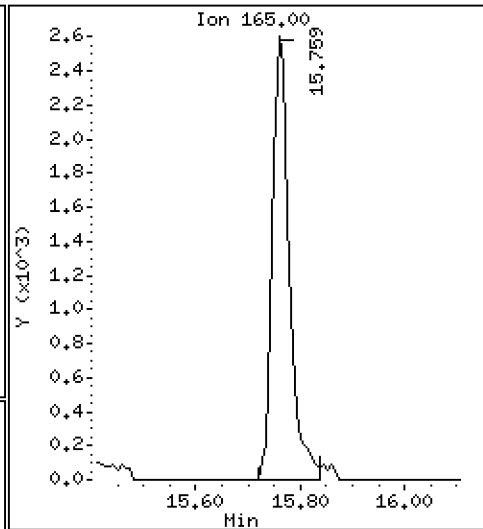
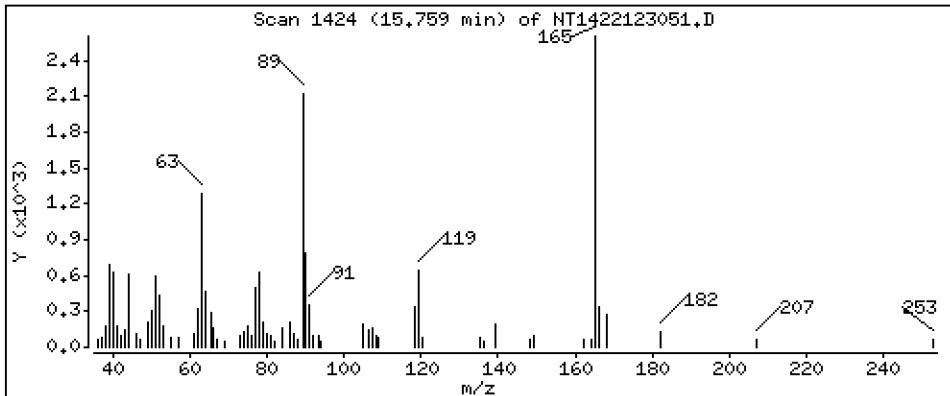
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.3020 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

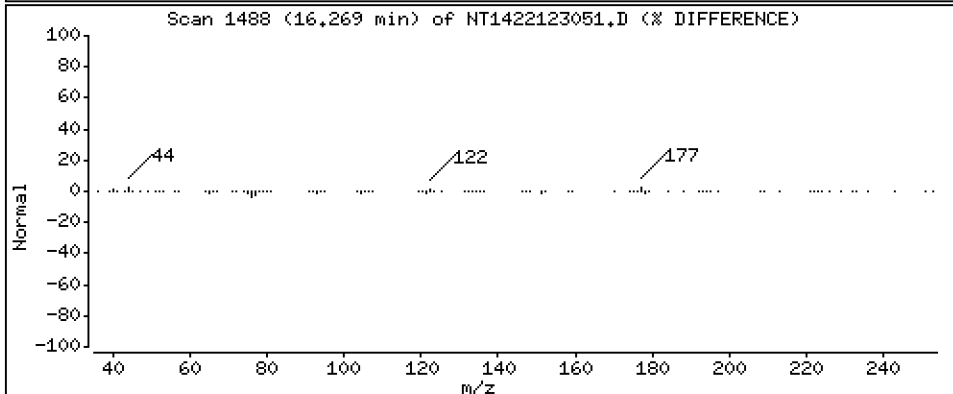
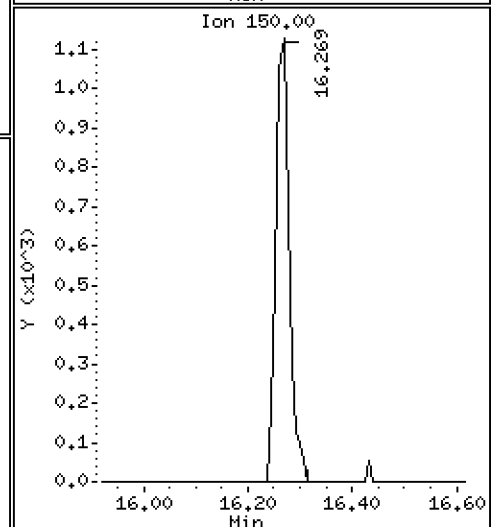
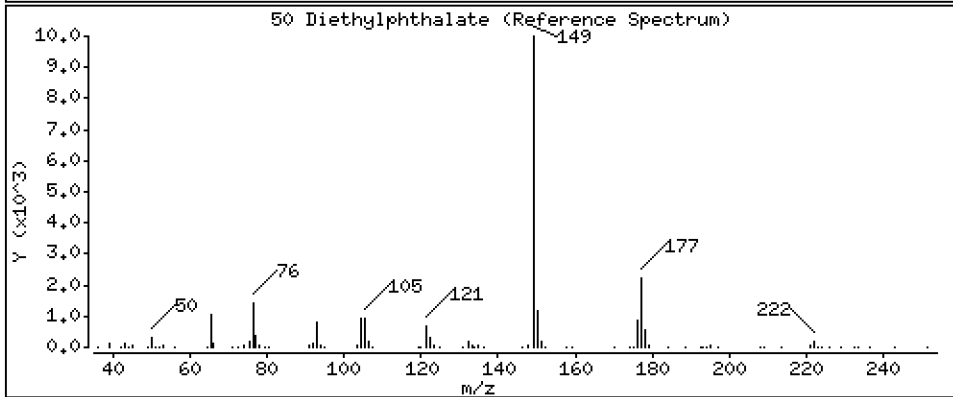
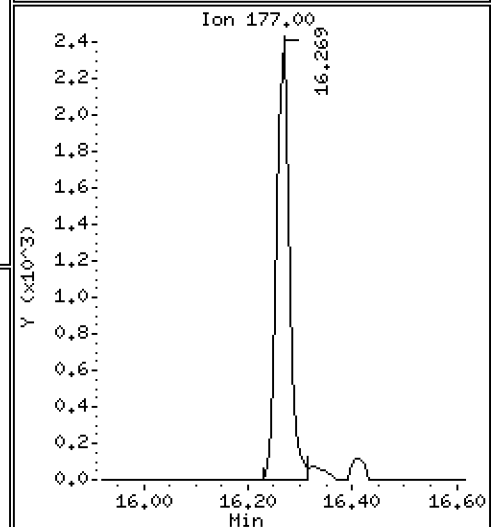
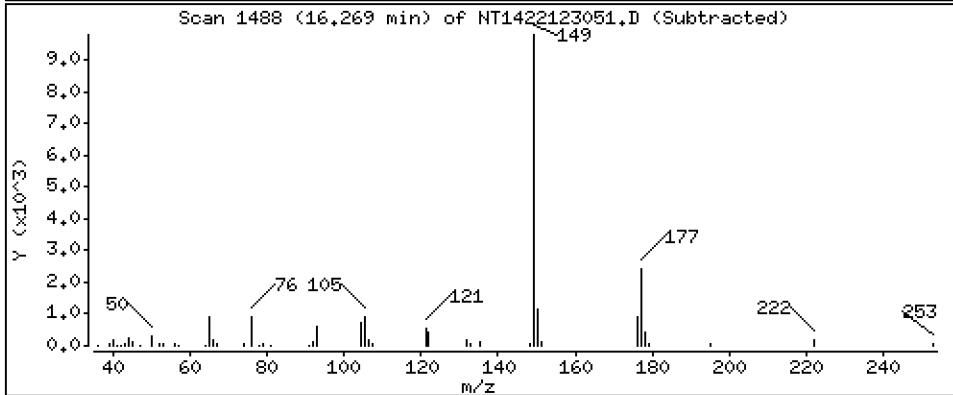
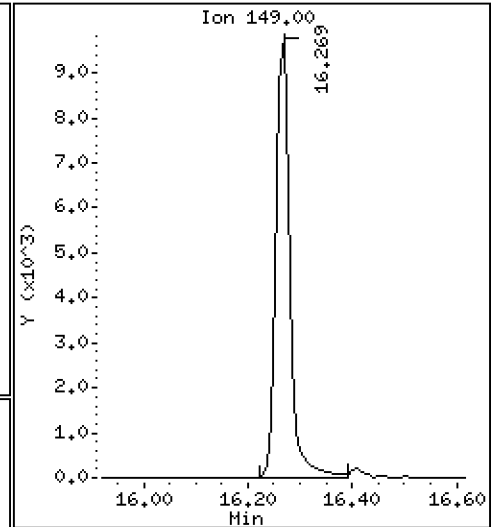
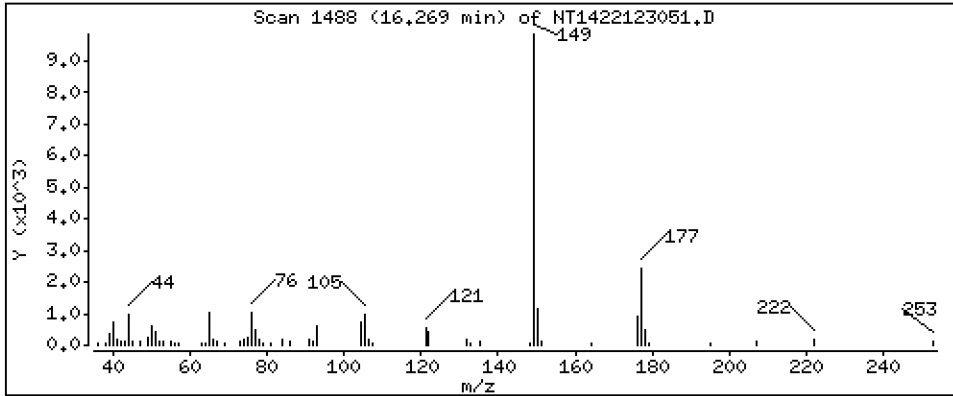
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2277 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

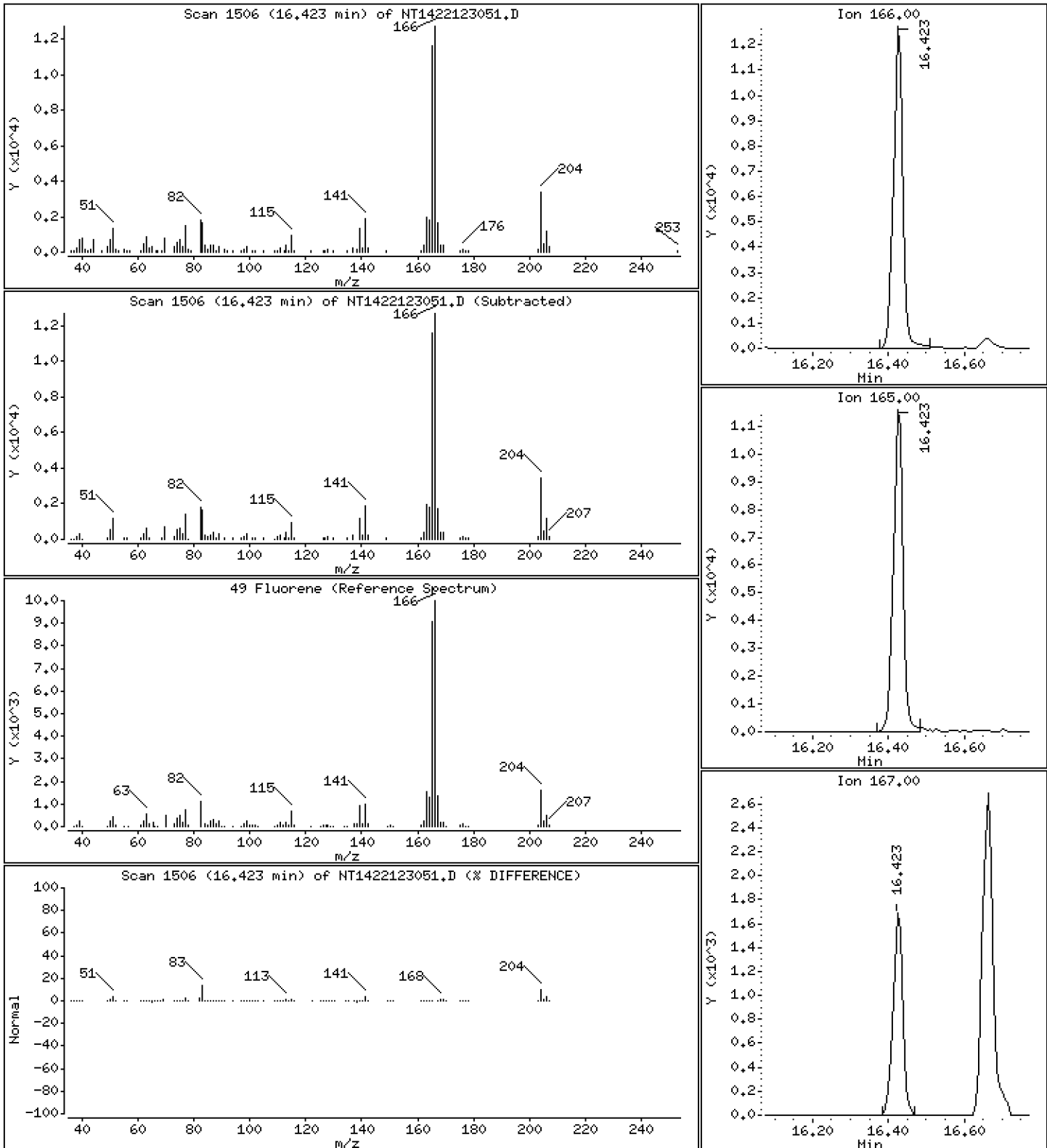
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2274 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

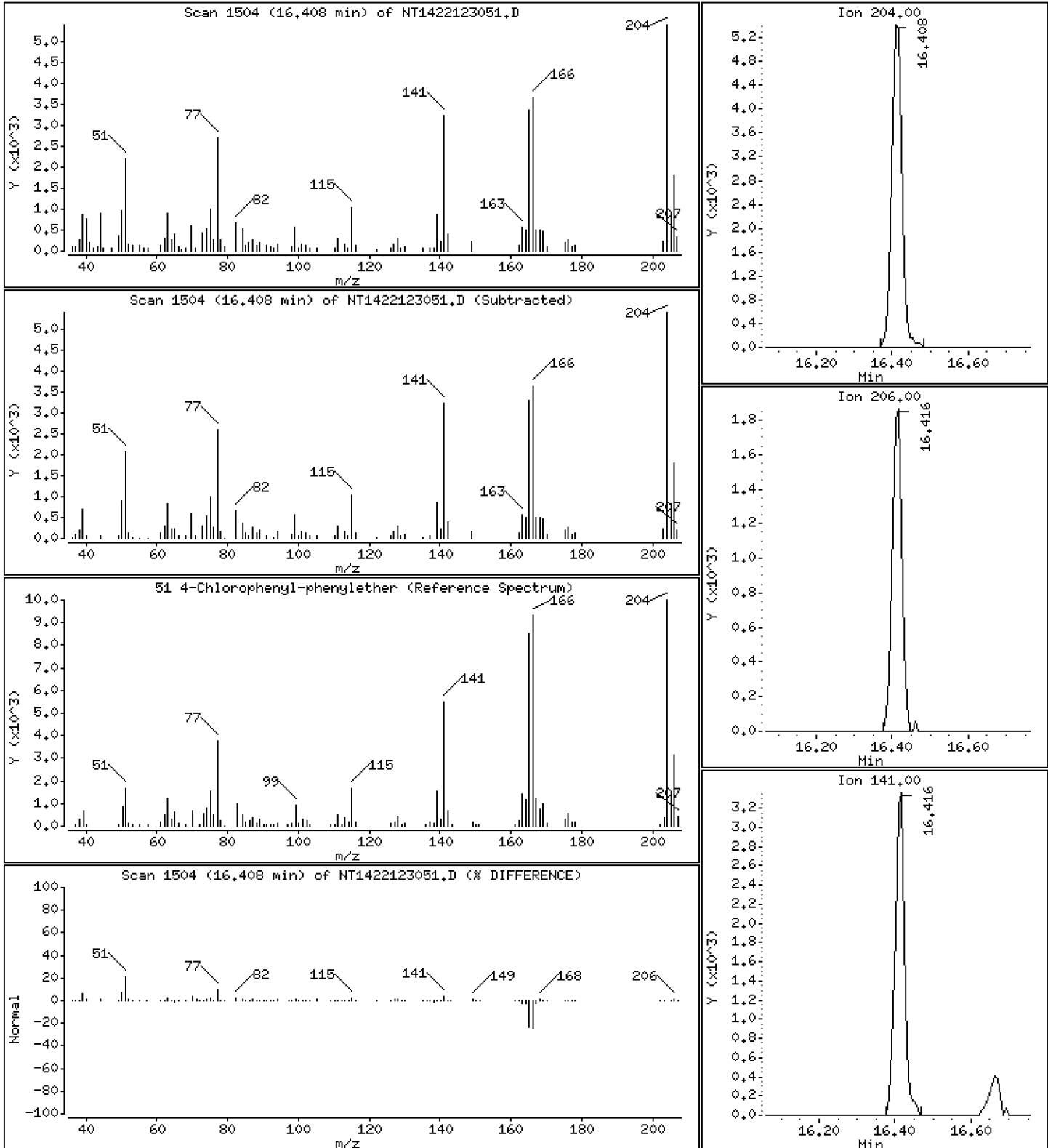
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2138 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

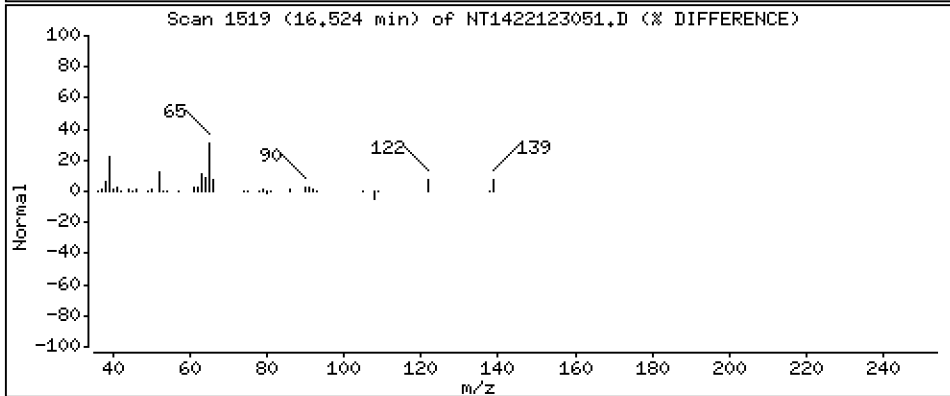
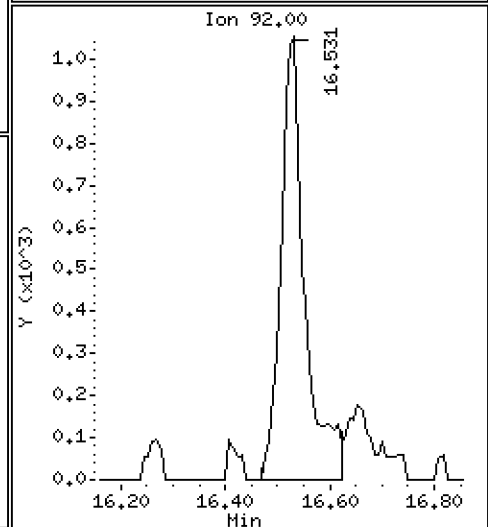
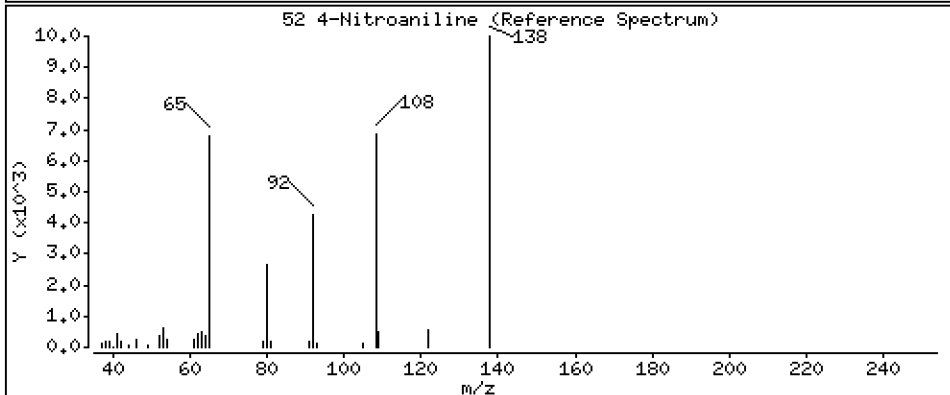
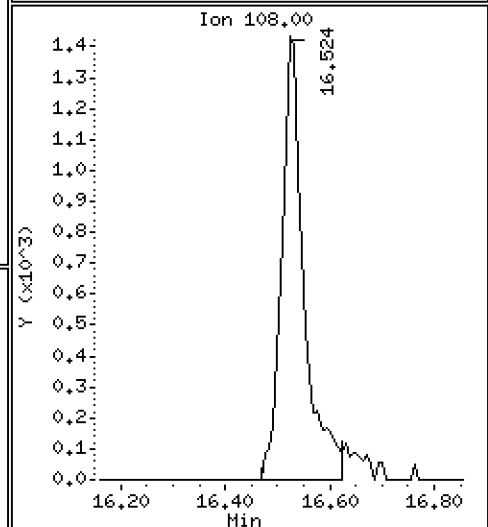
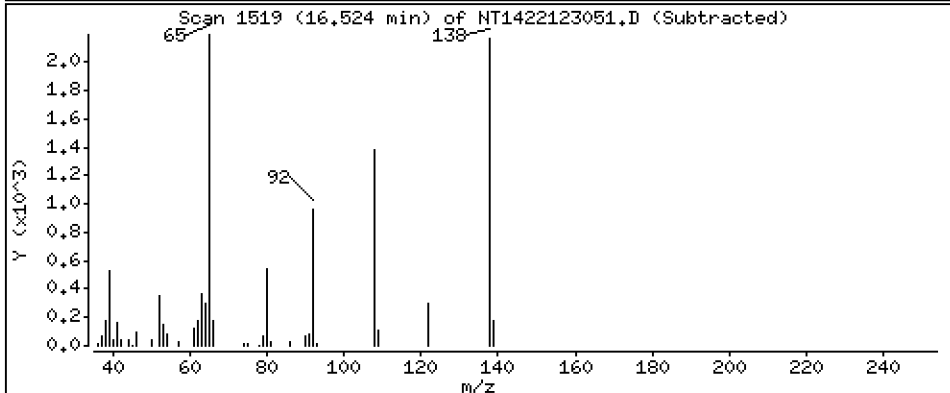
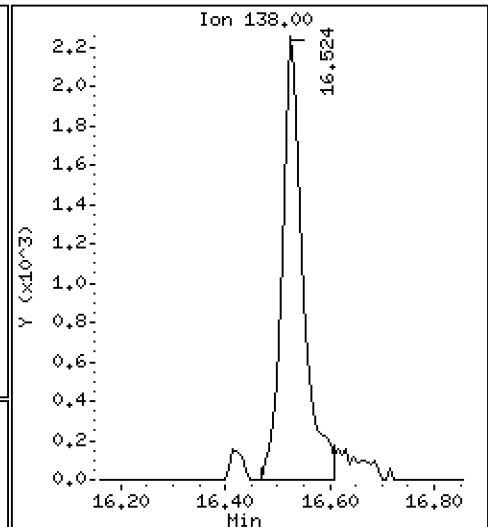
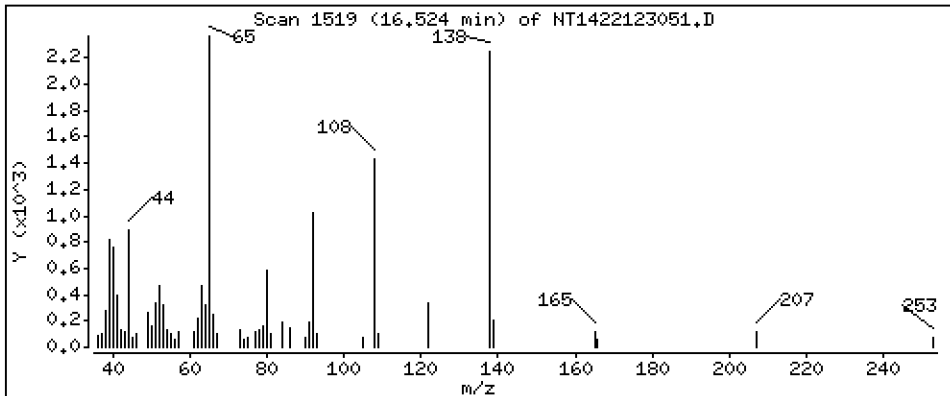
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,3128 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

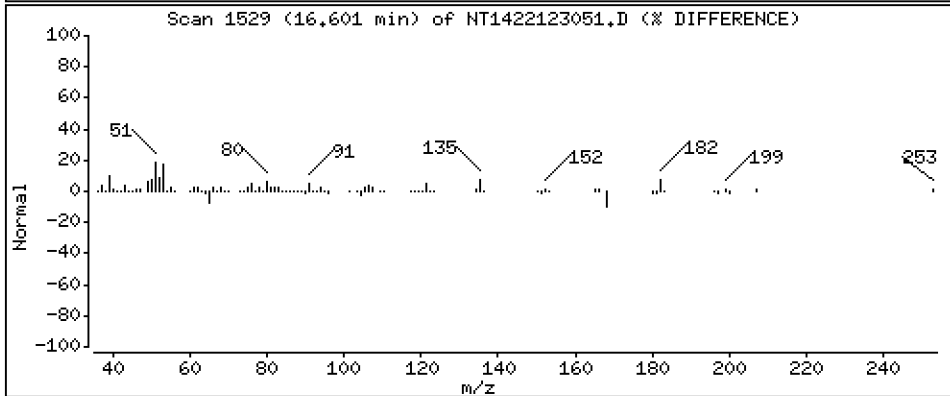
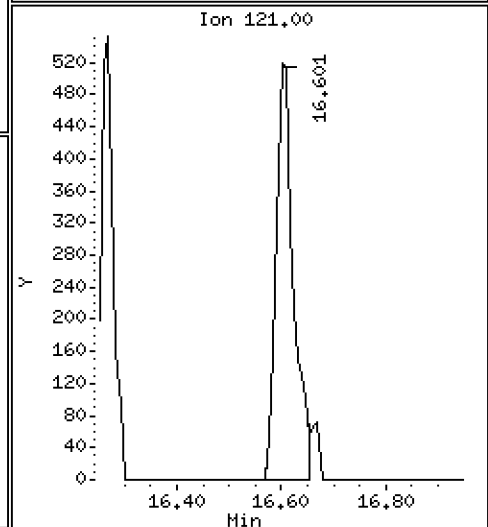
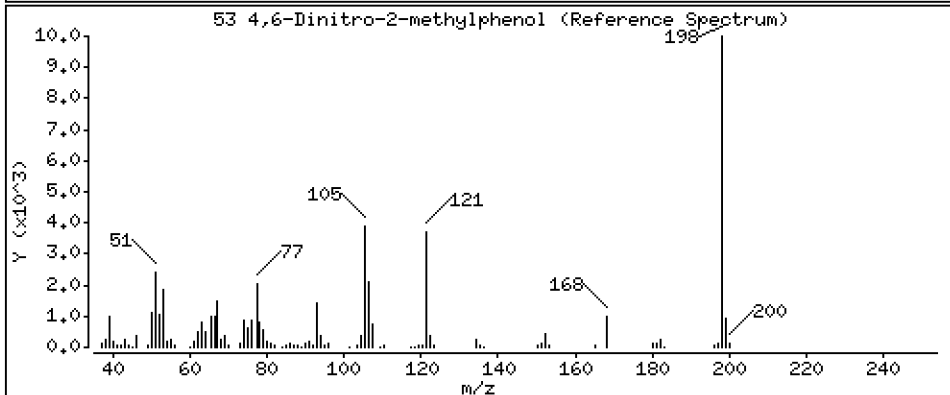
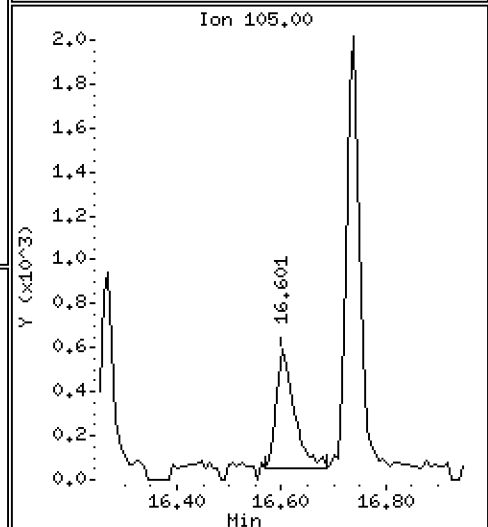
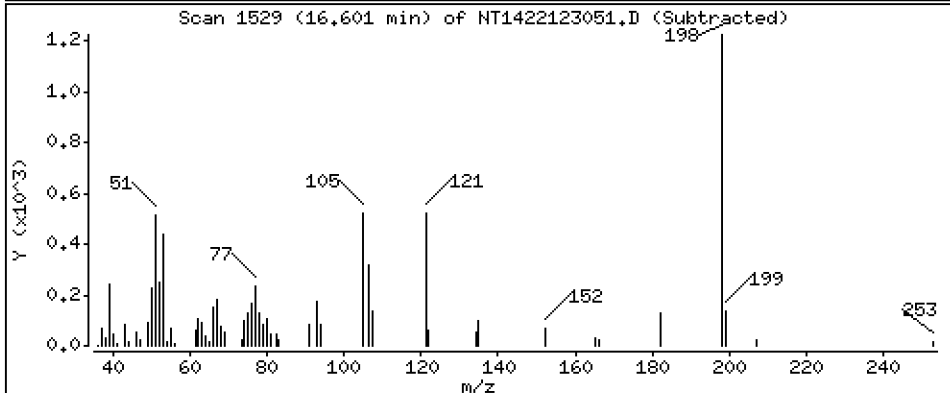
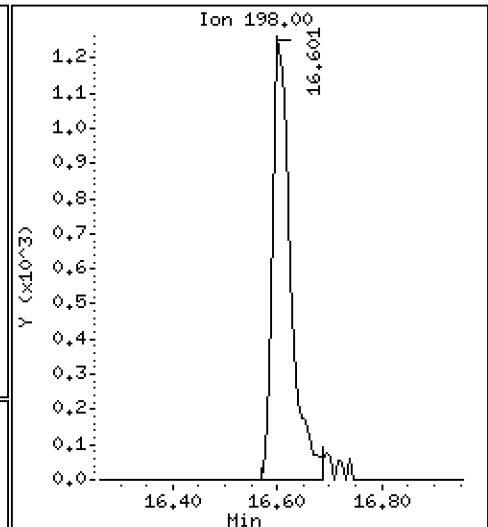
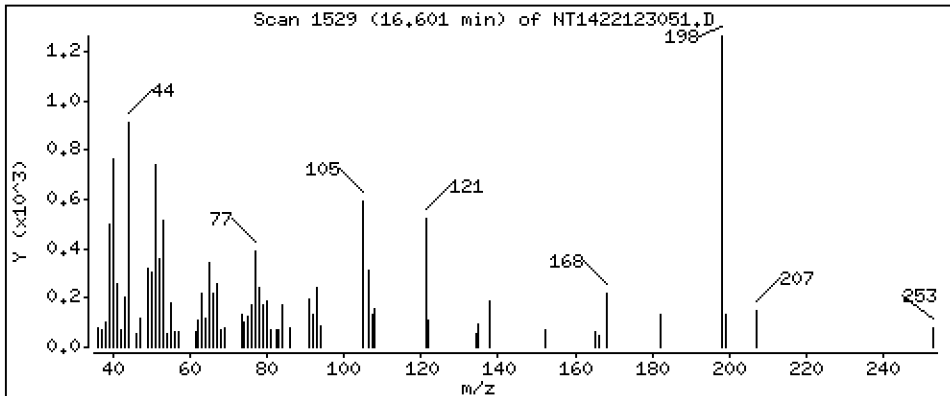
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.2020 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

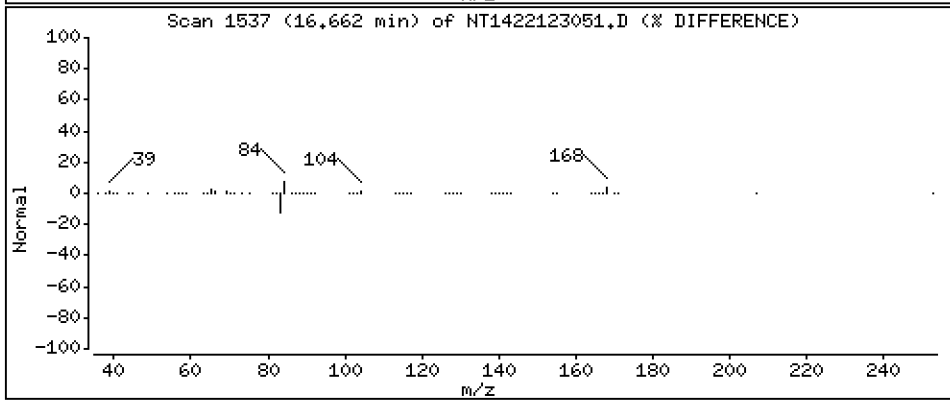
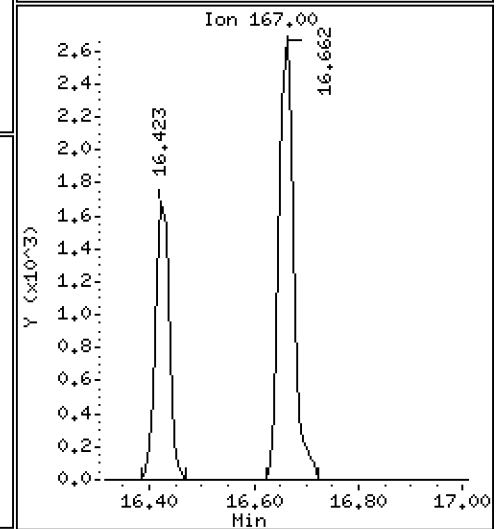
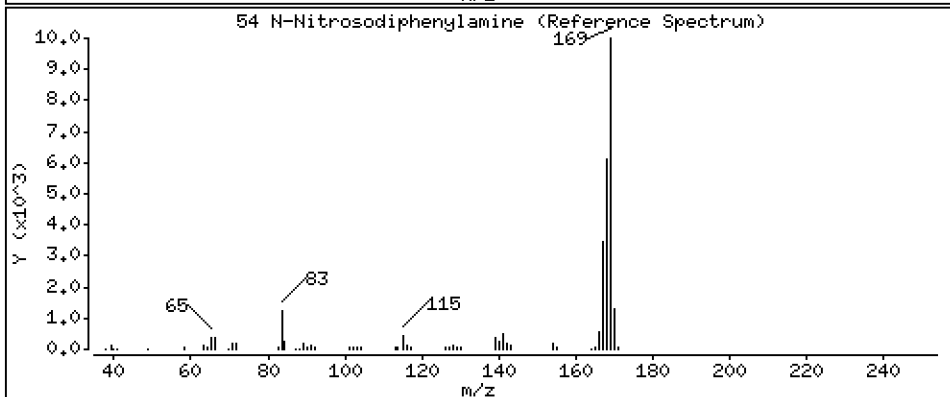
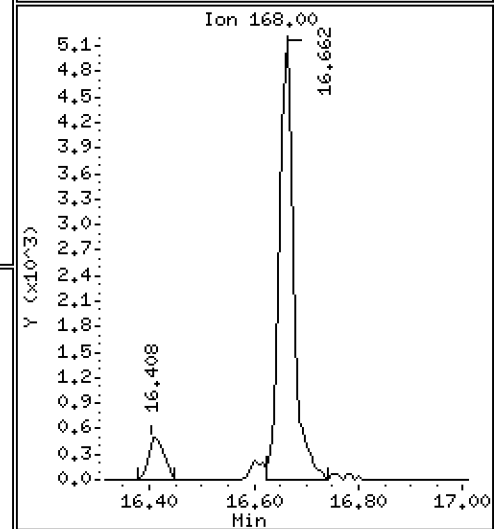
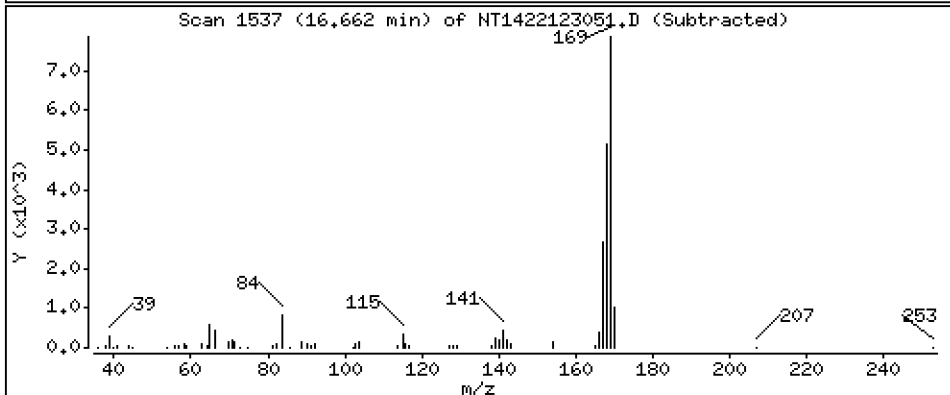
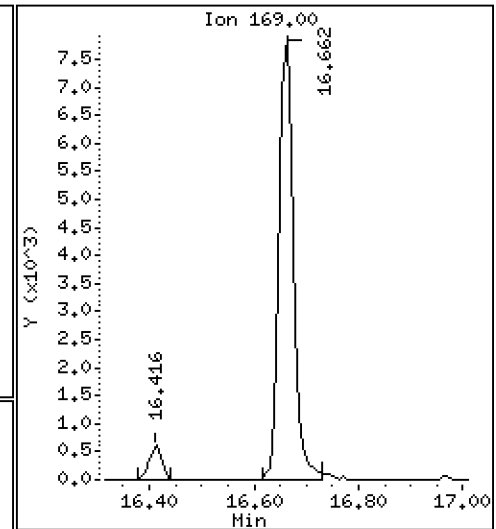
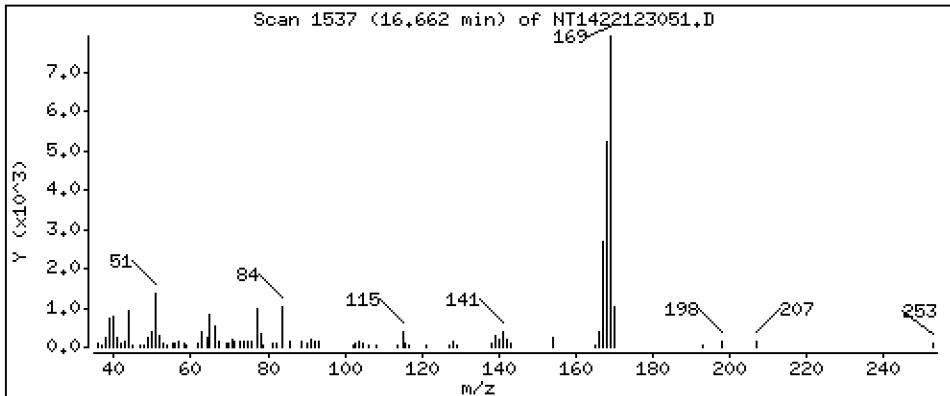
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2422 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

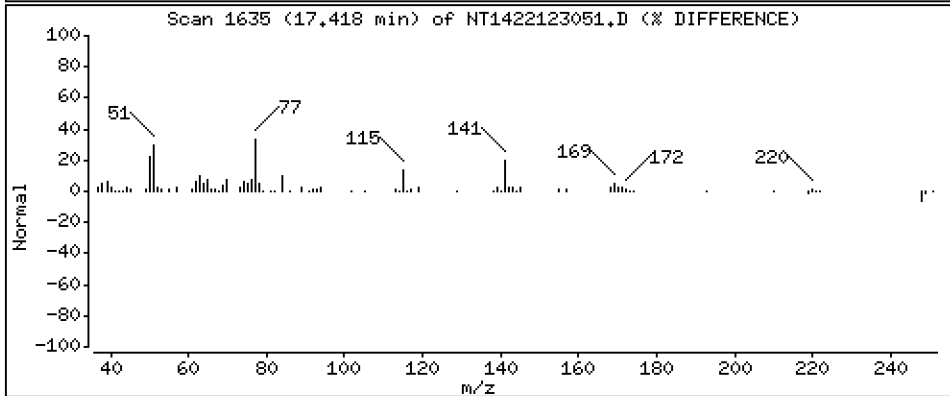
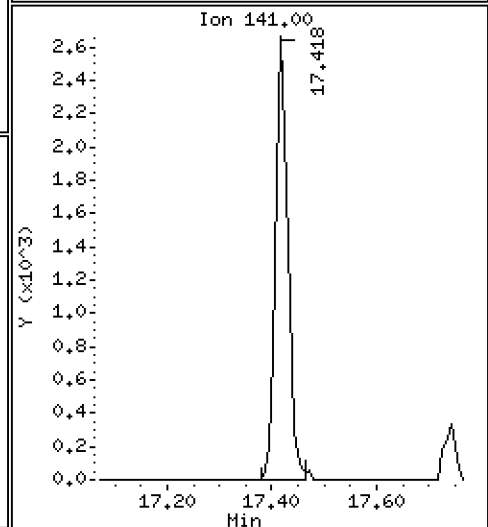
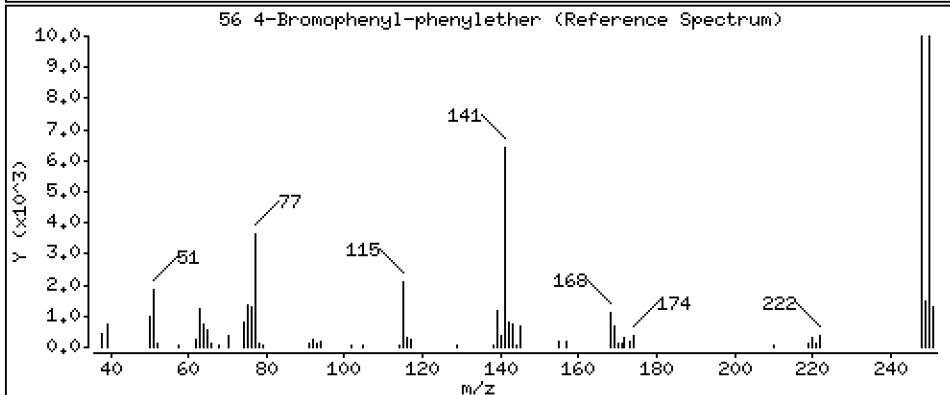
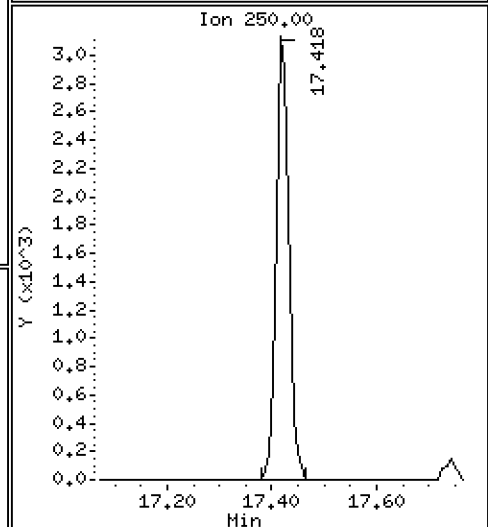
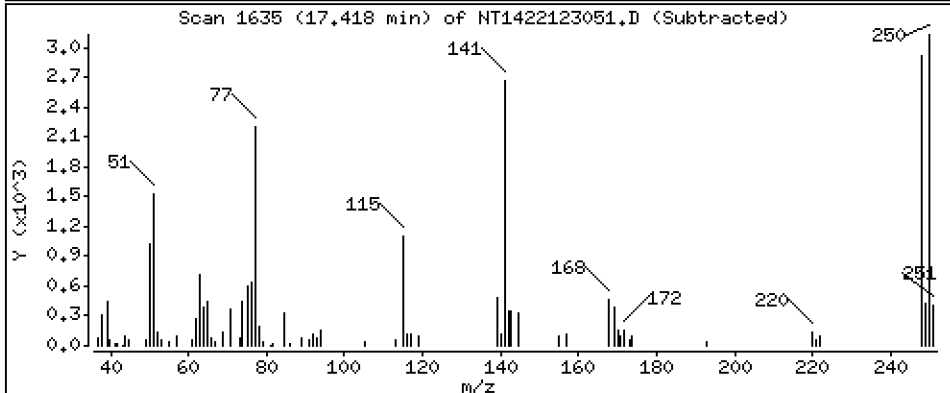
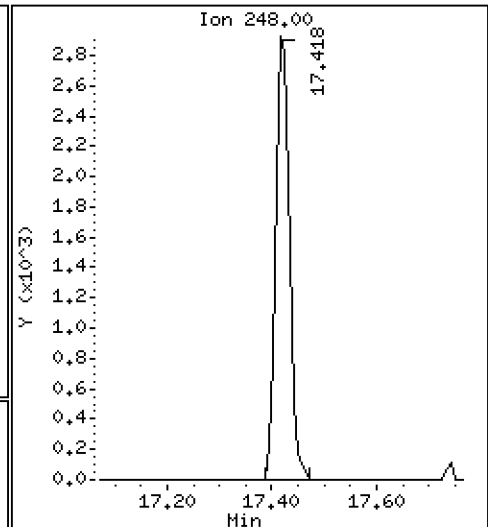
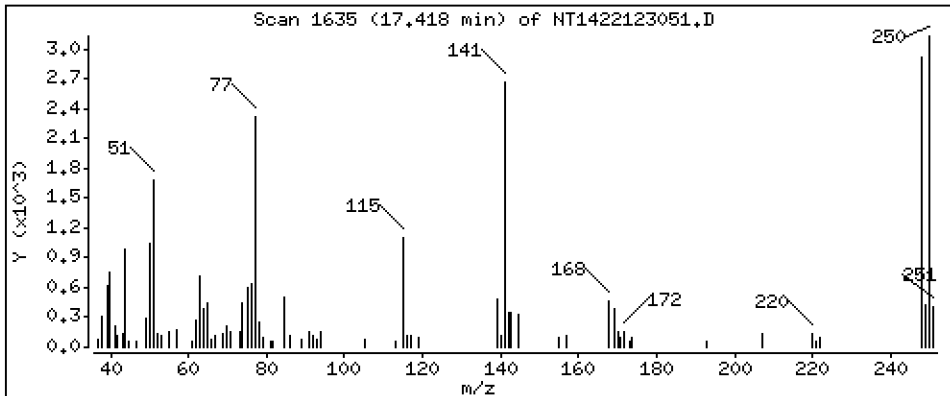
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2274 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

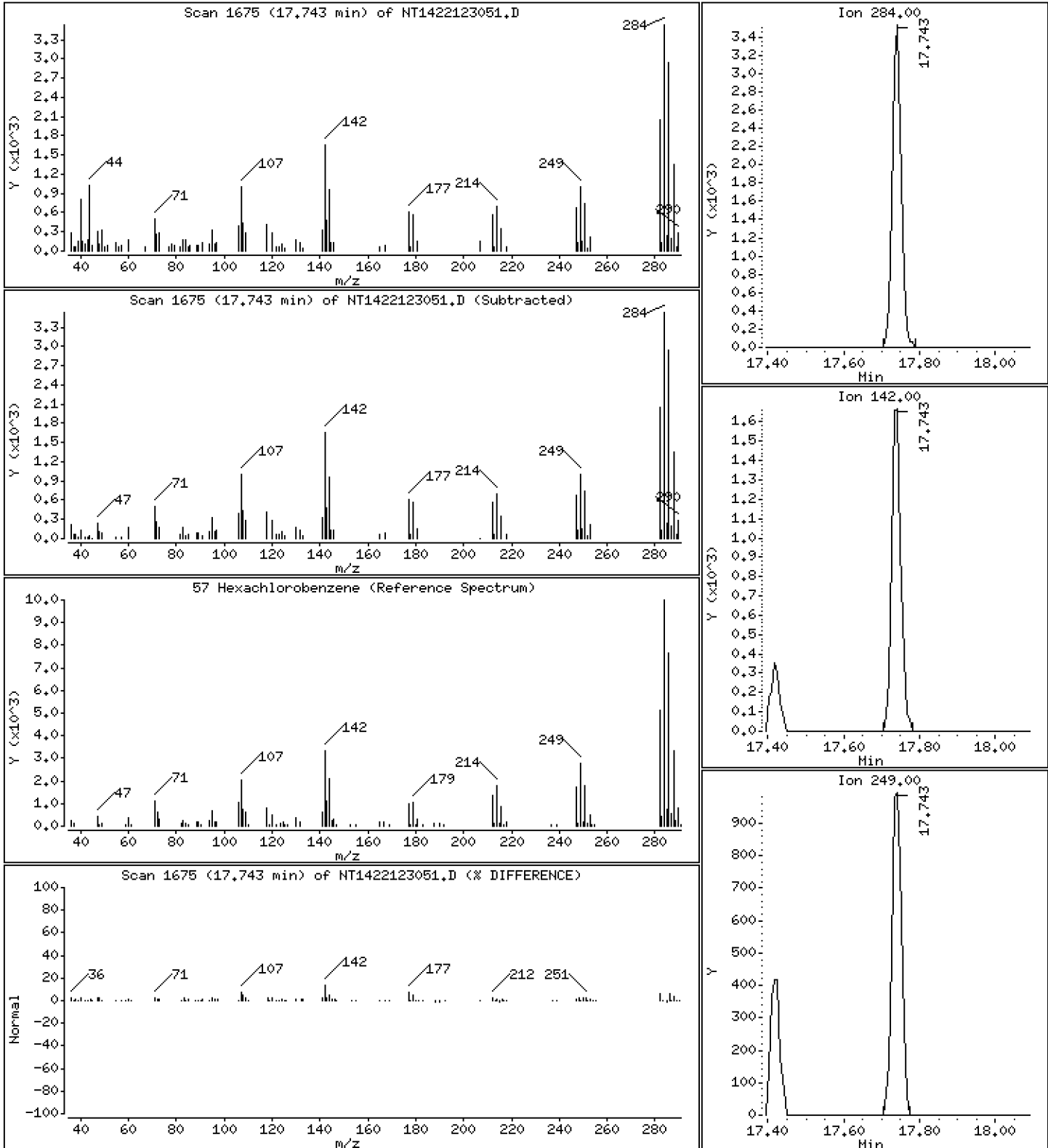
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,2291 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

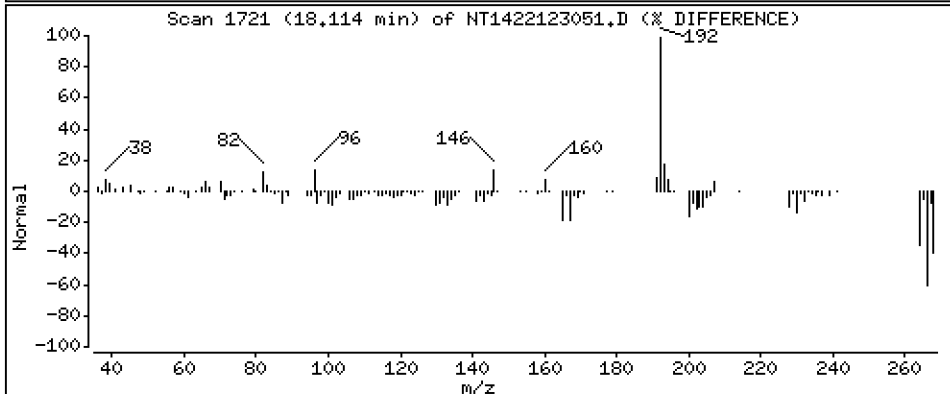
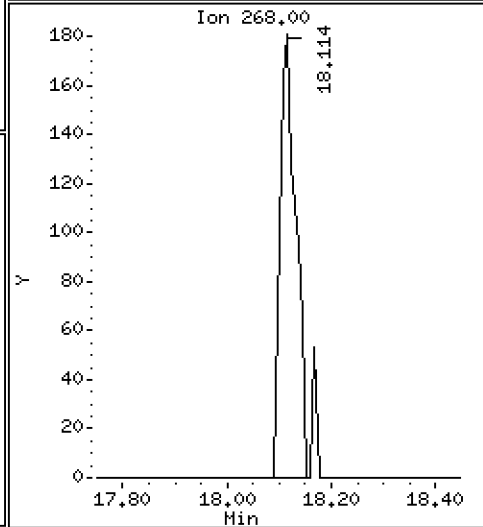
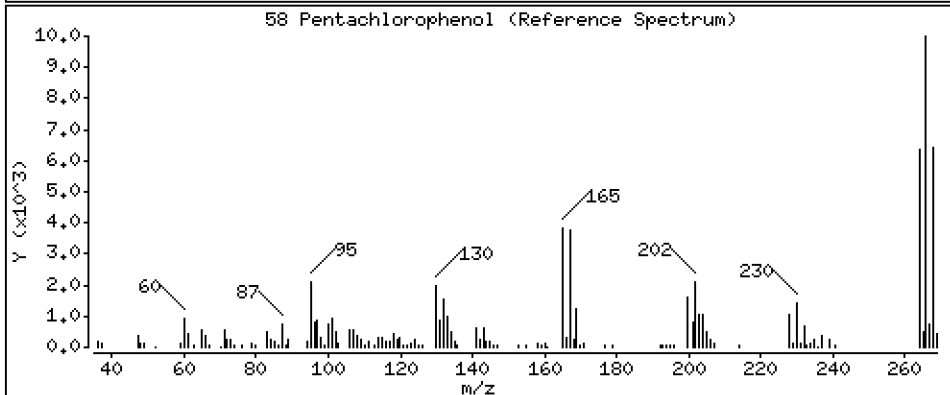
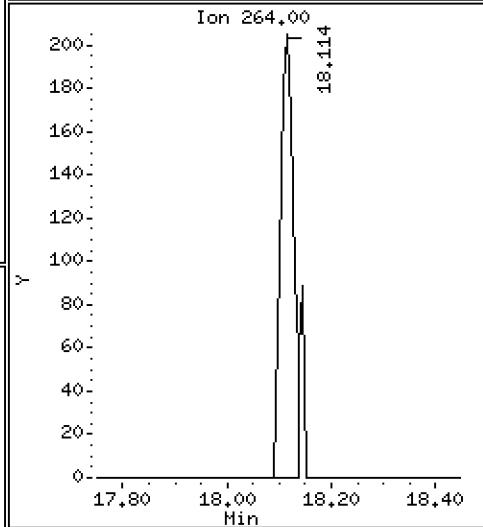
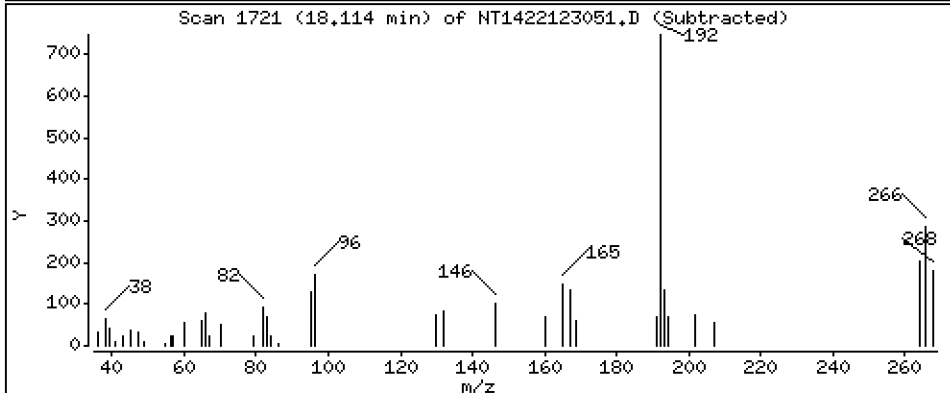
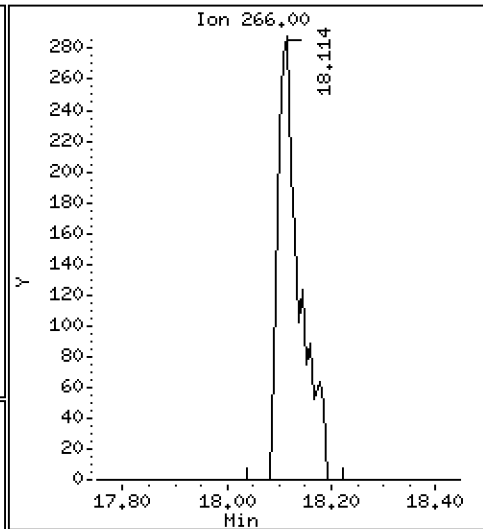
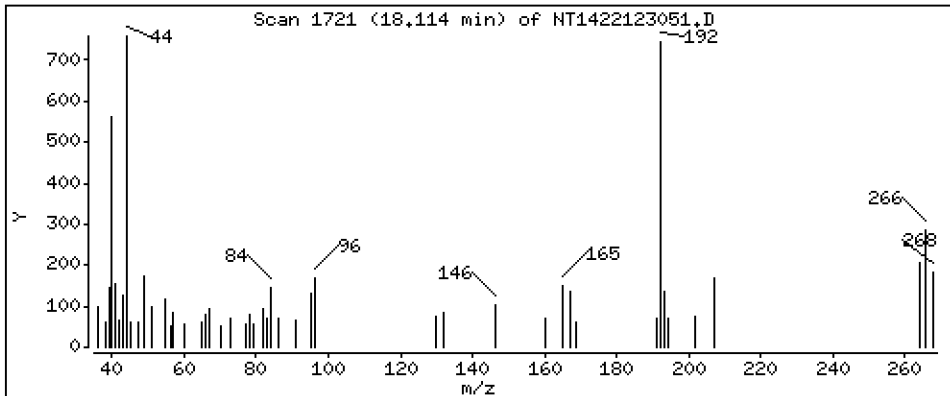
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07669 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

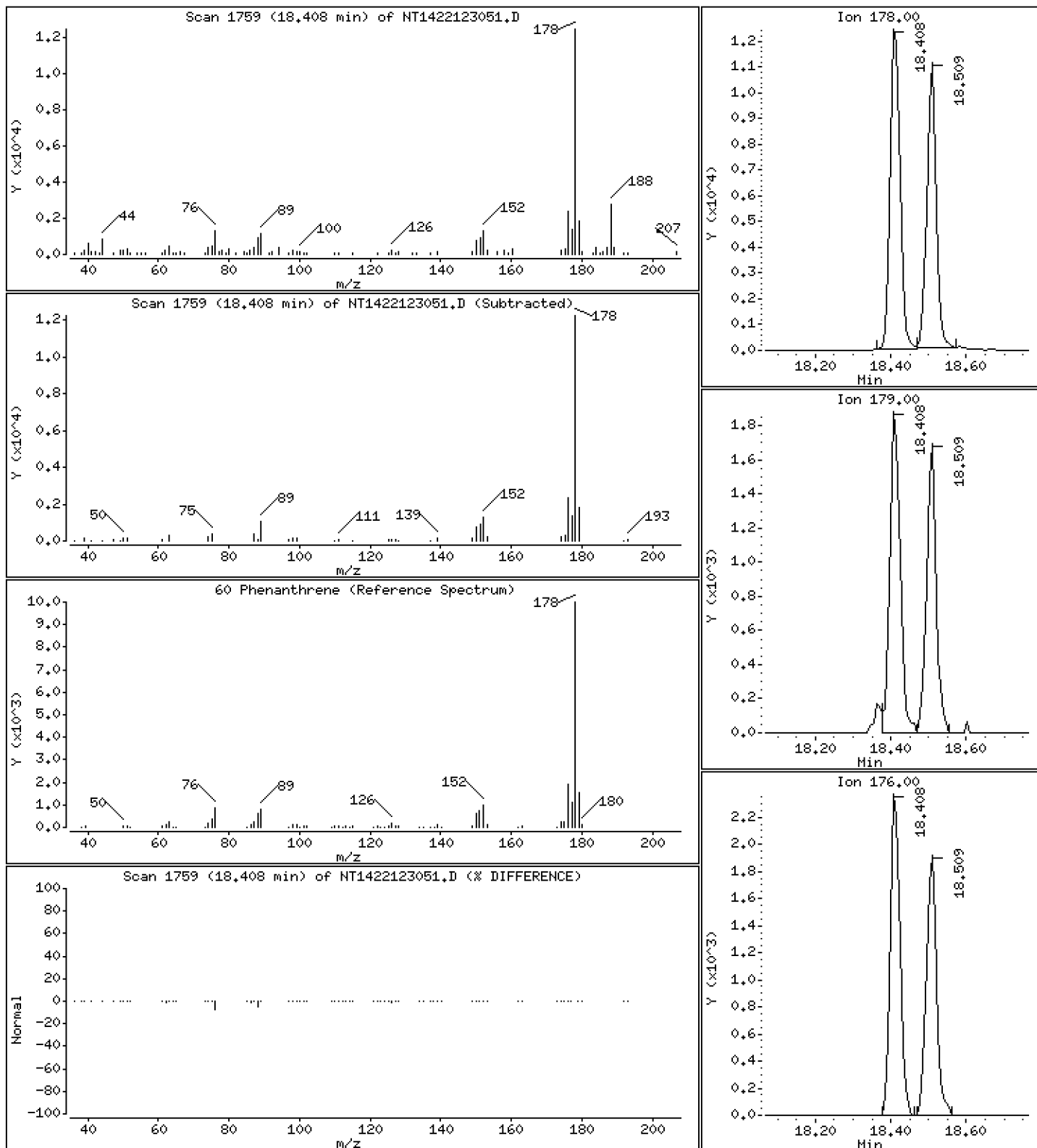
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2415 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

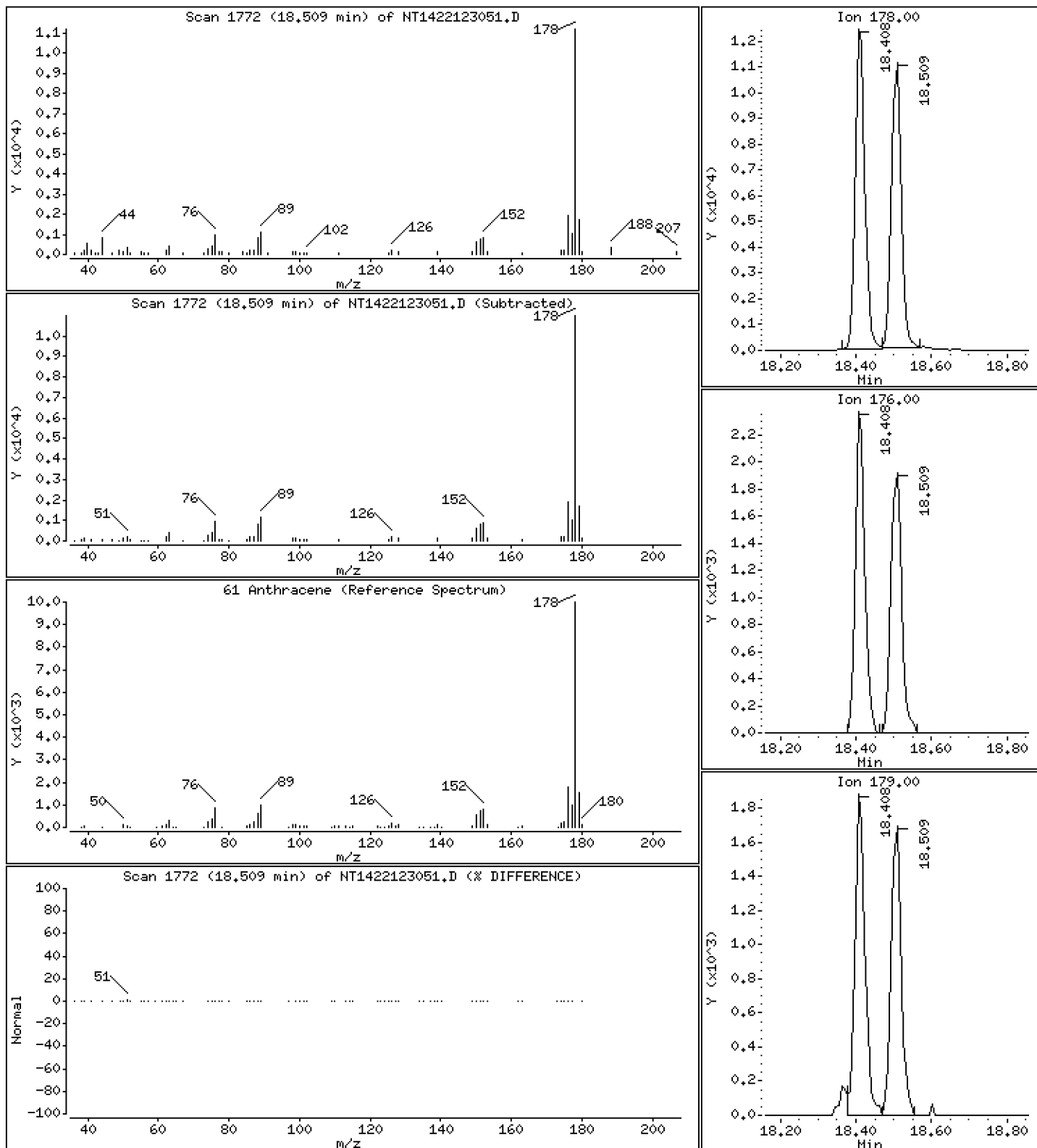
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2183 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

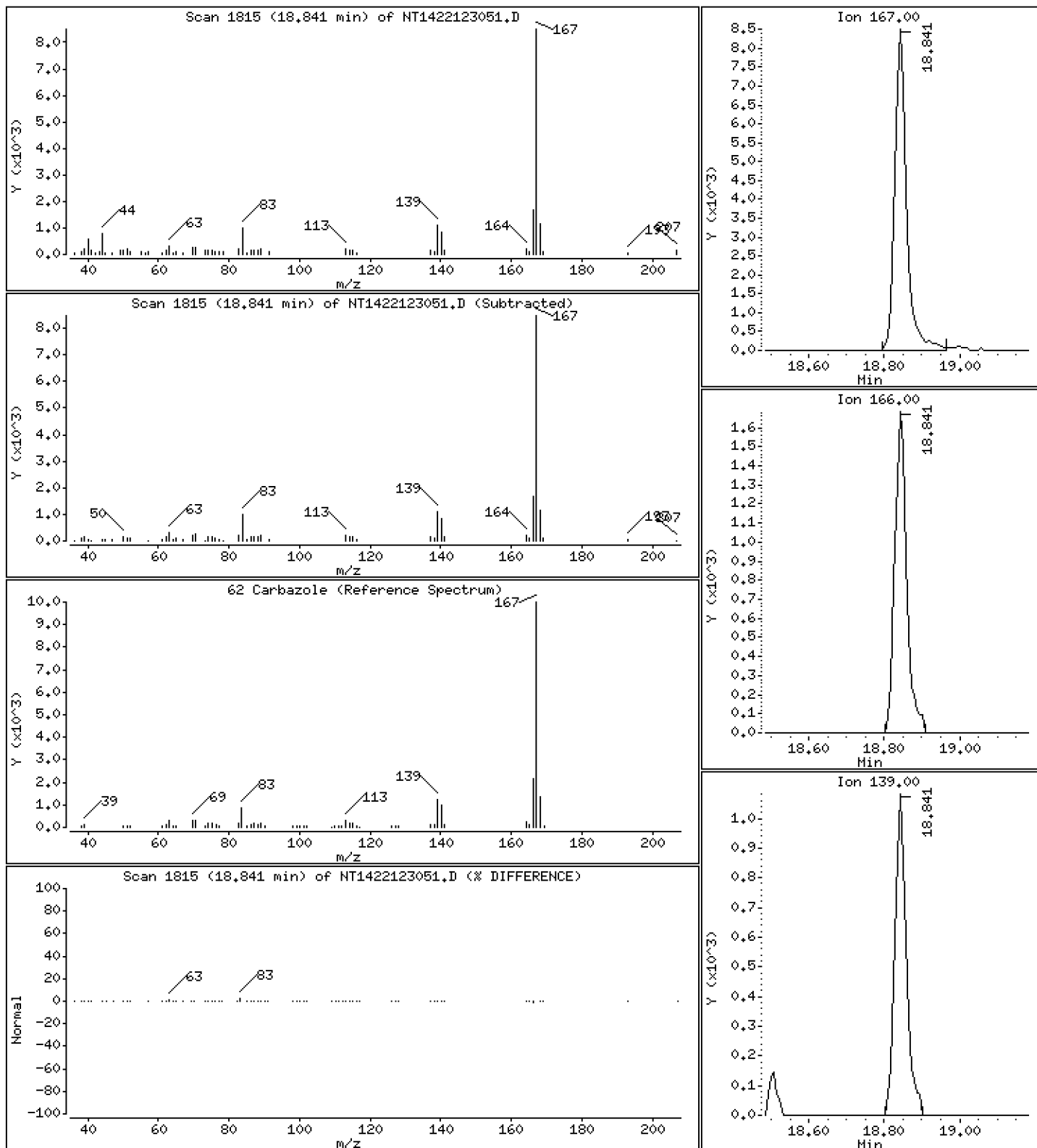
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

62 Carbazole

Concentration: 0.2174 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

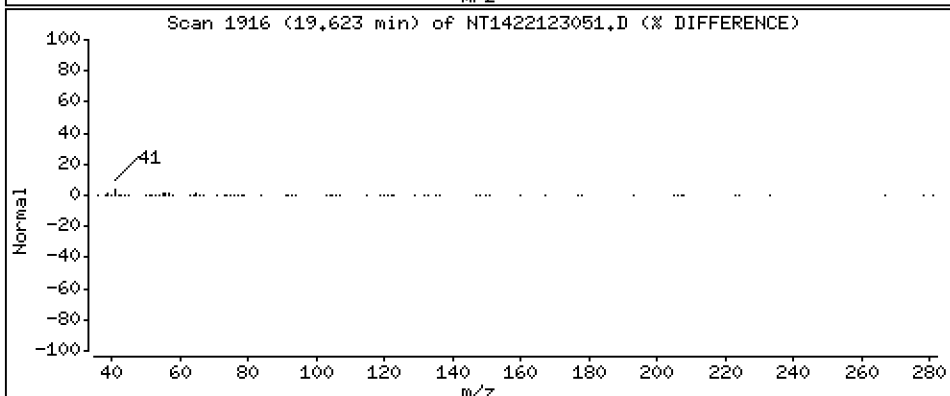
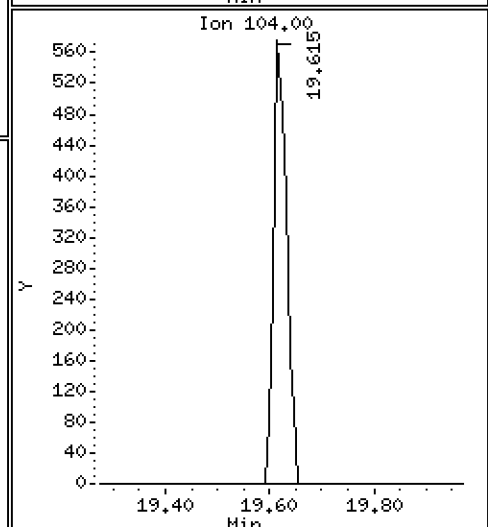
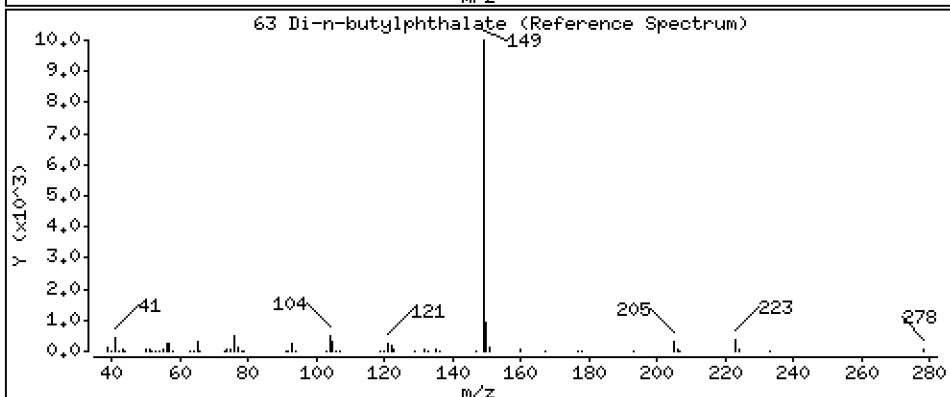
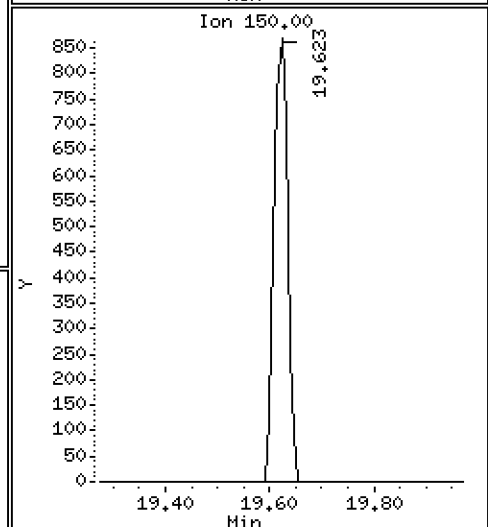
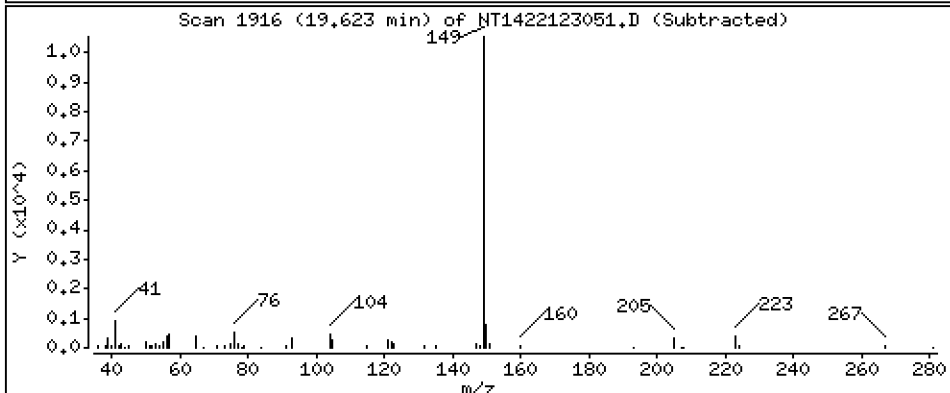
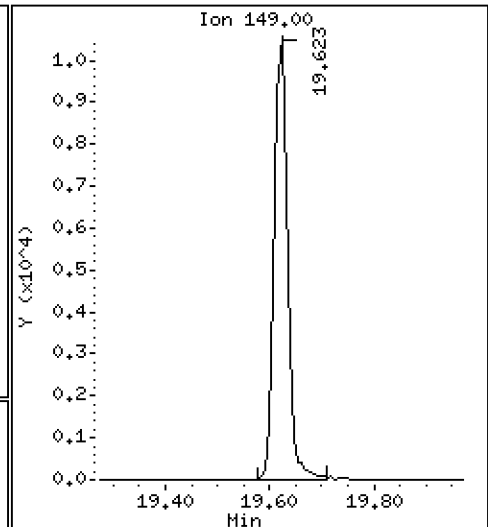
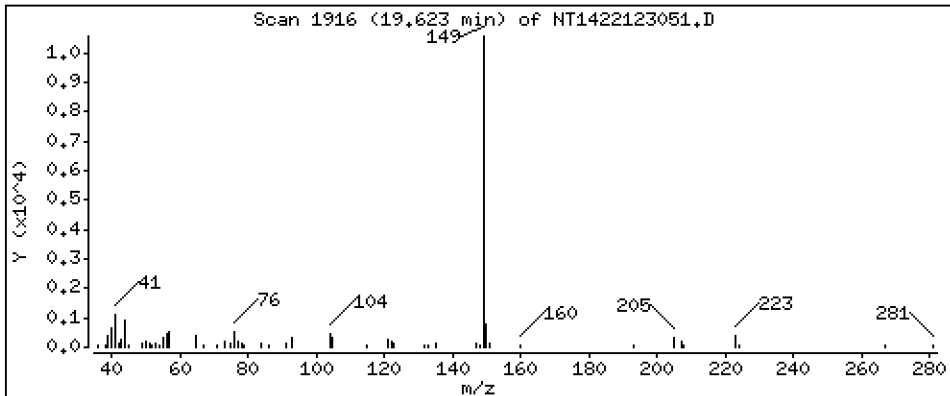
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1906 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

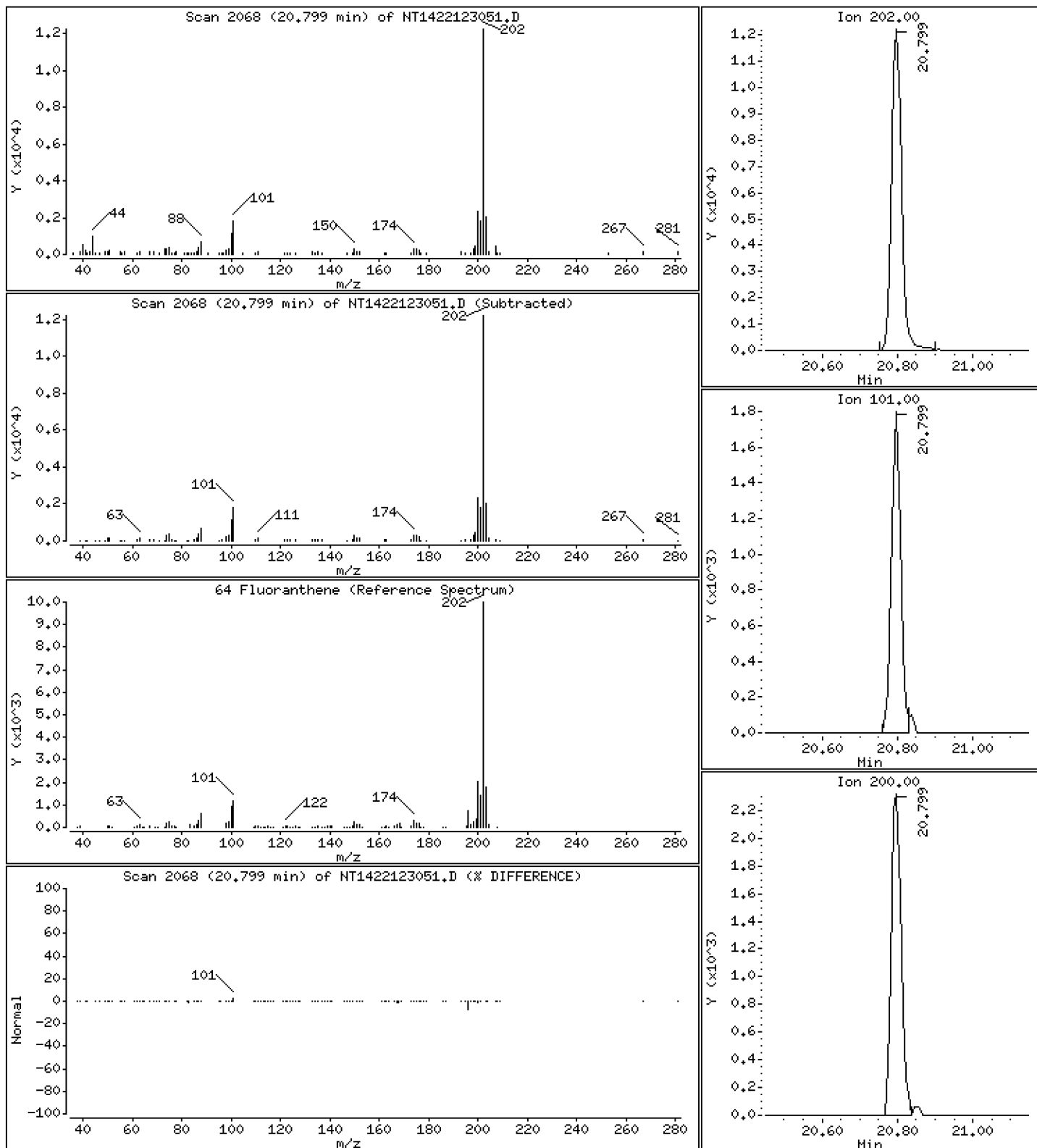
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,2308 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

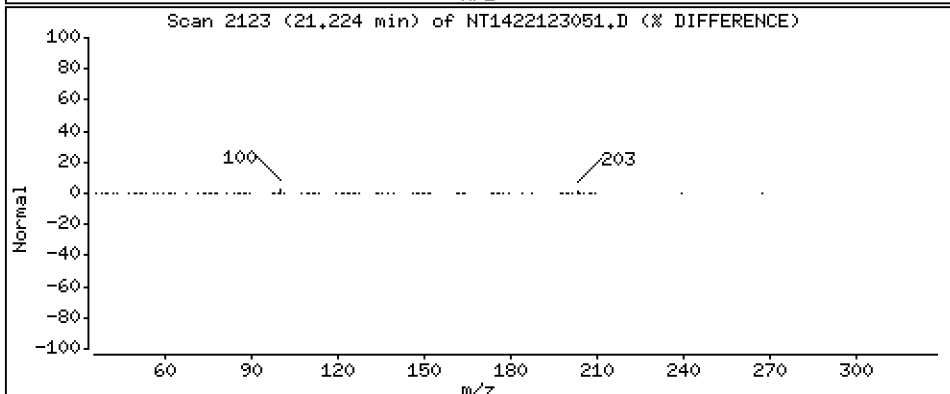
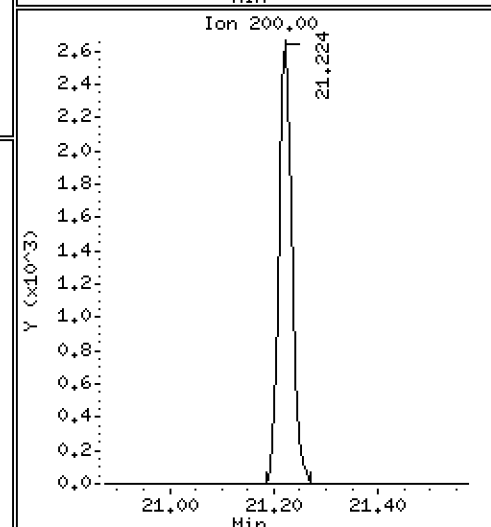
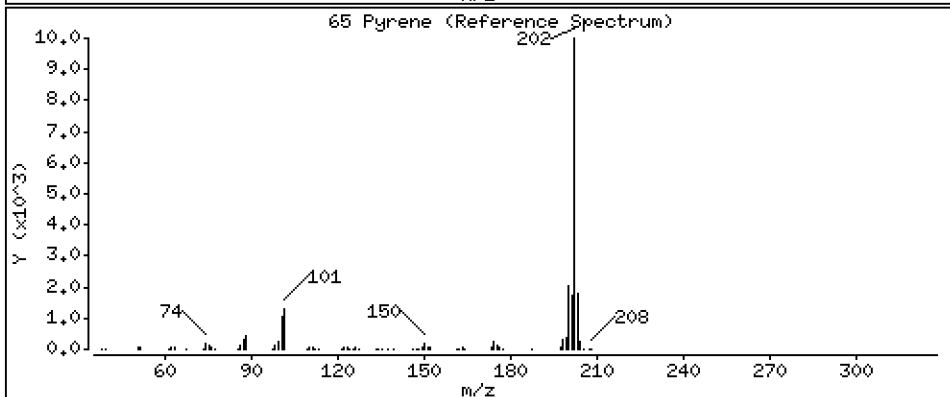
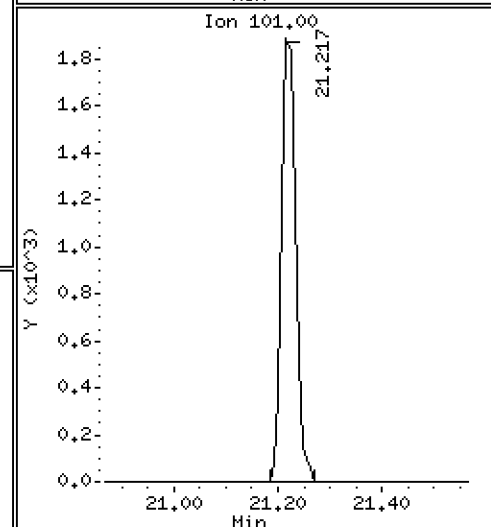
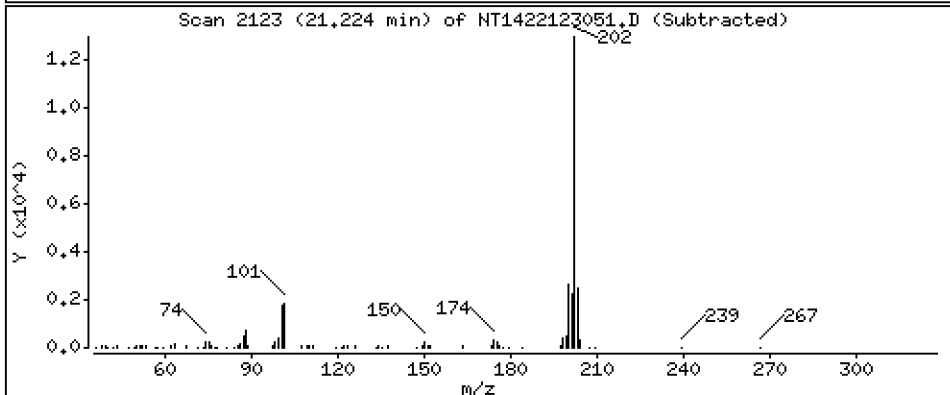
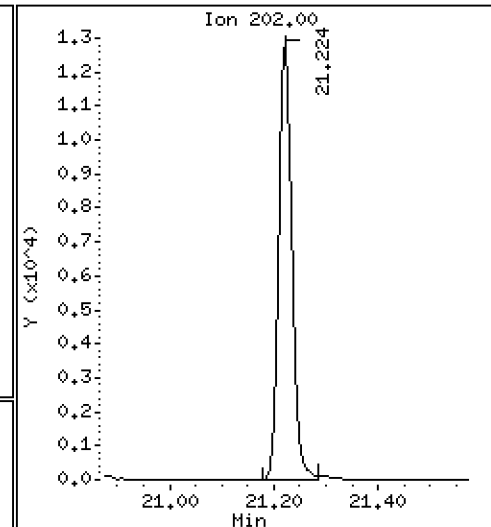
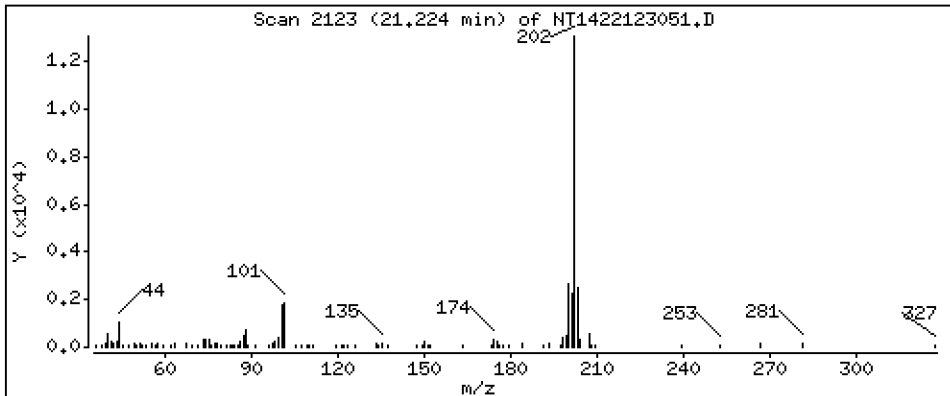
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2212 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

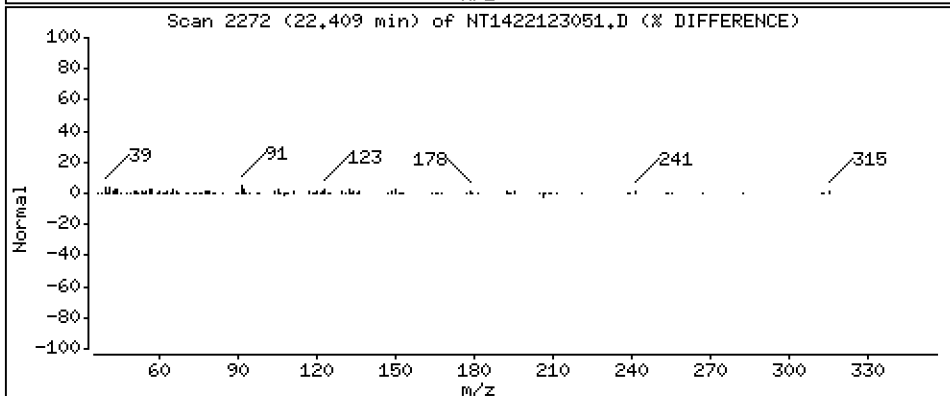
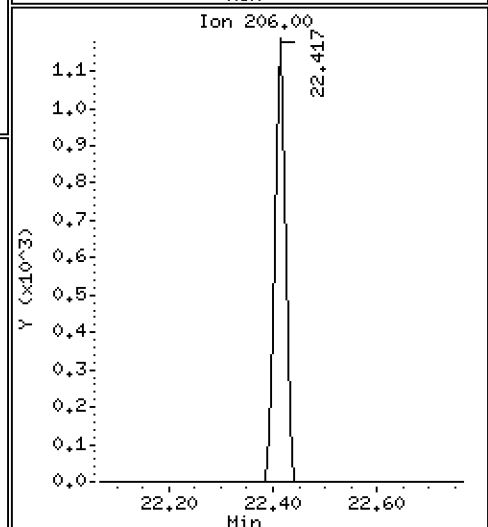
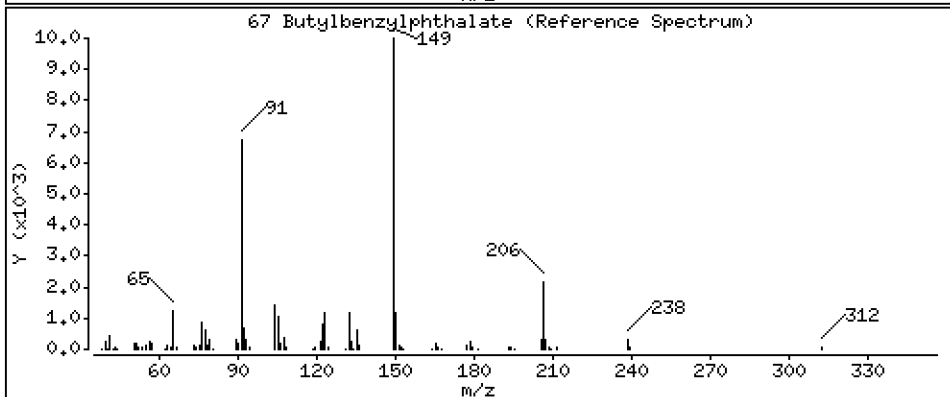
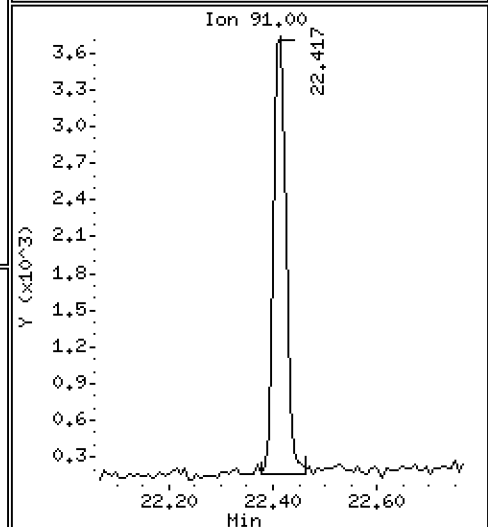
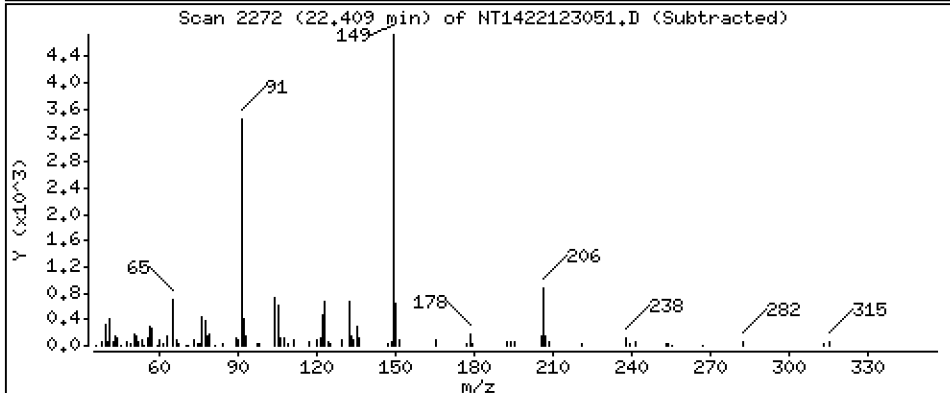
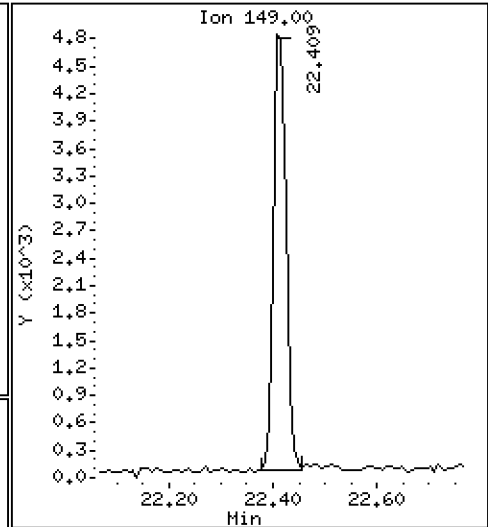
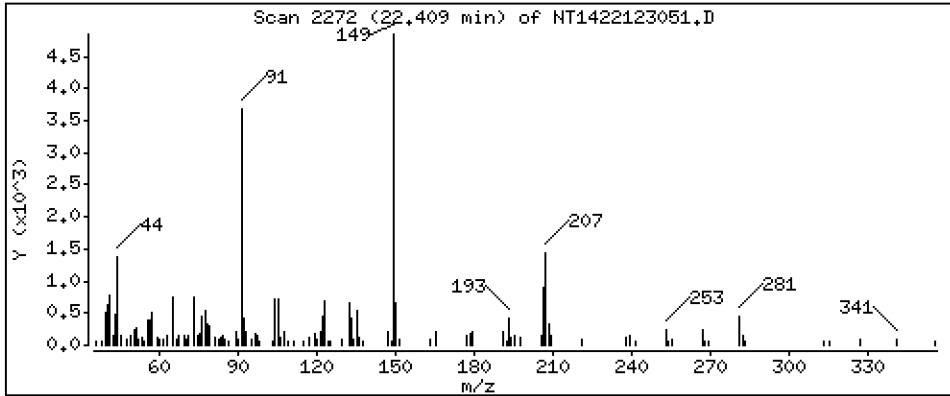
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2080 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

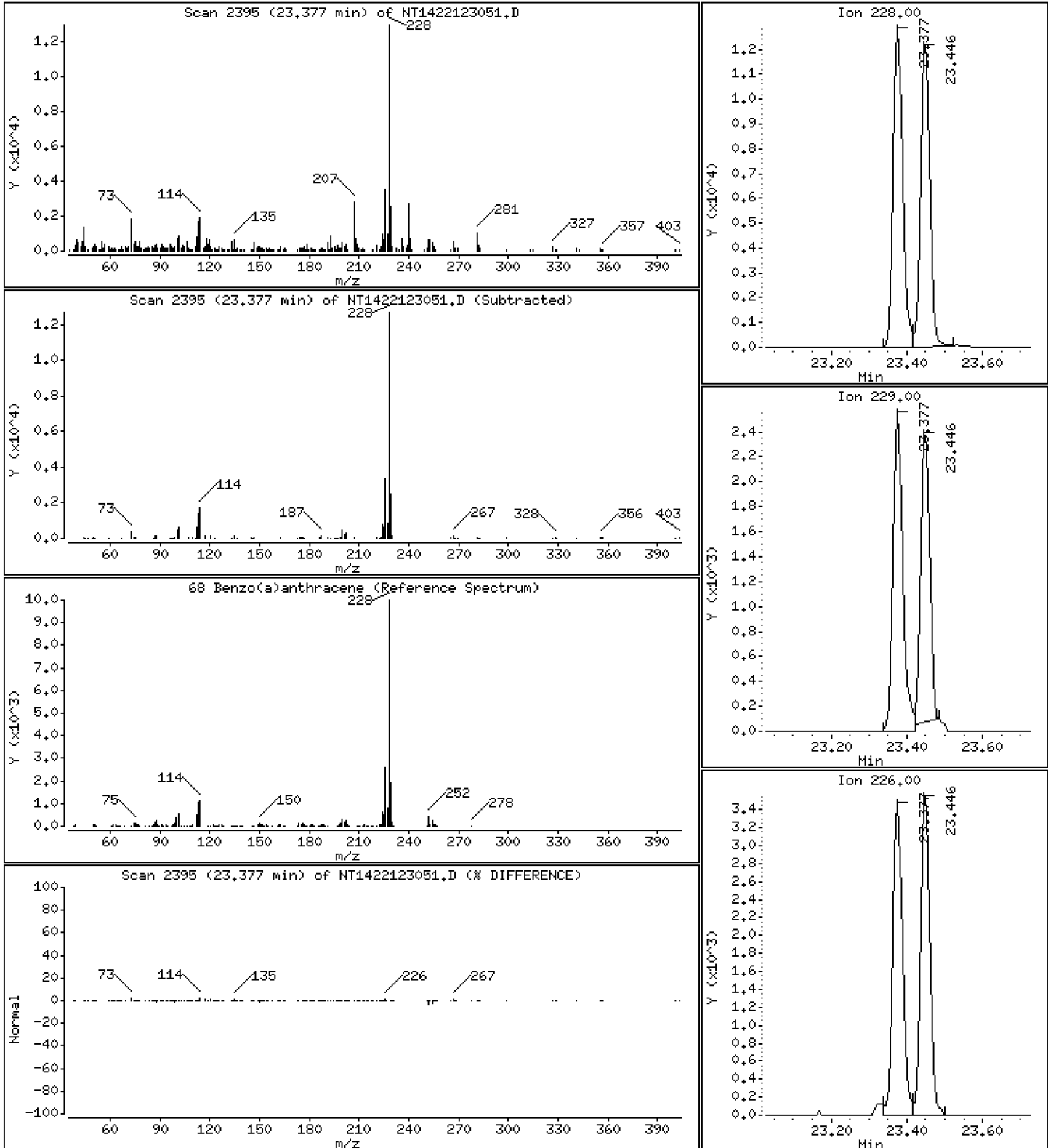
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2415 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

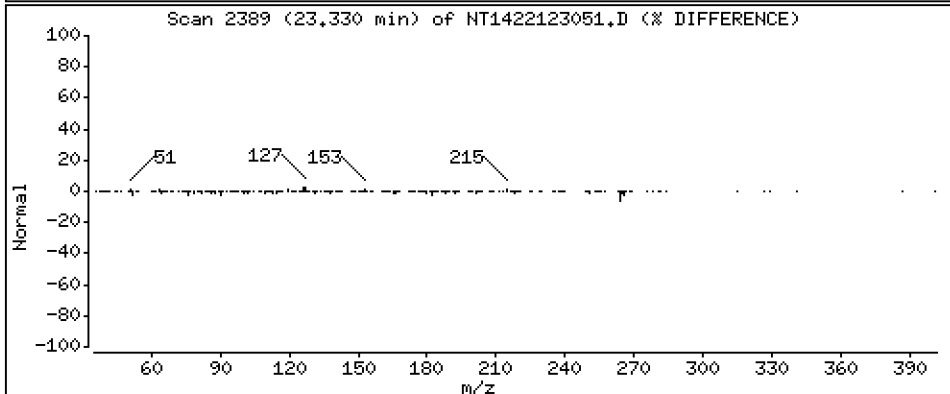
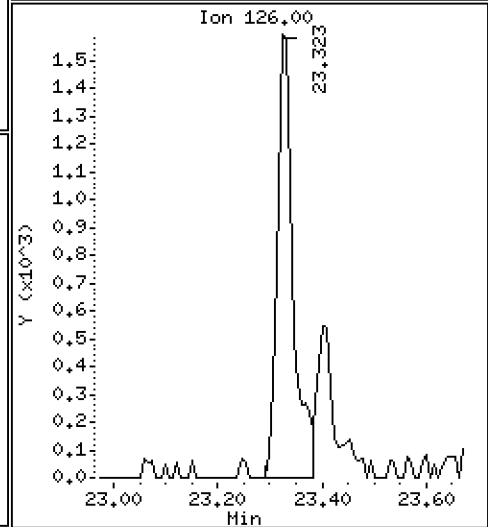
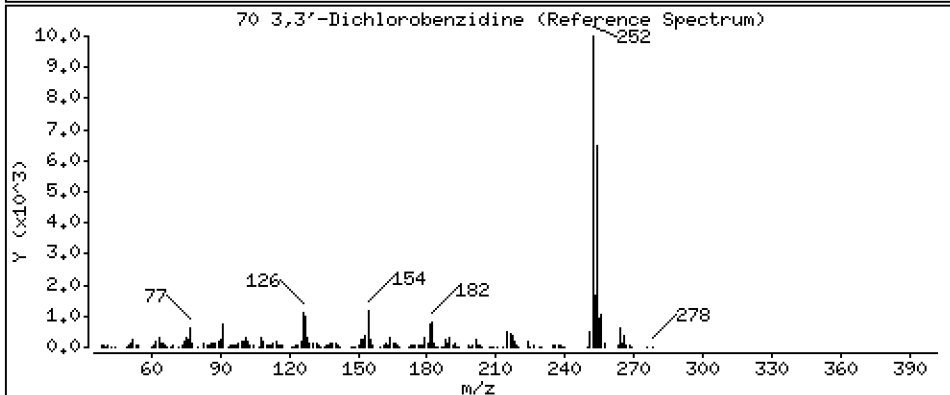
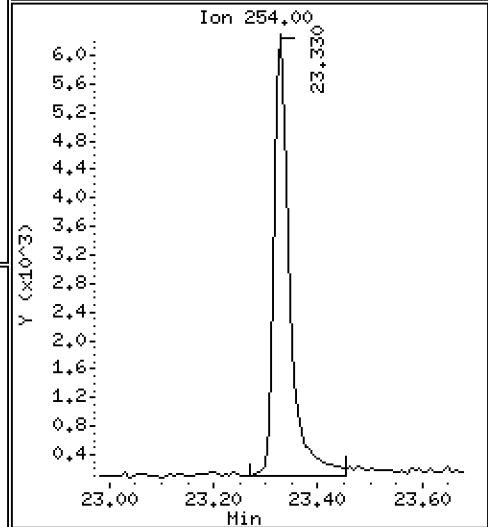
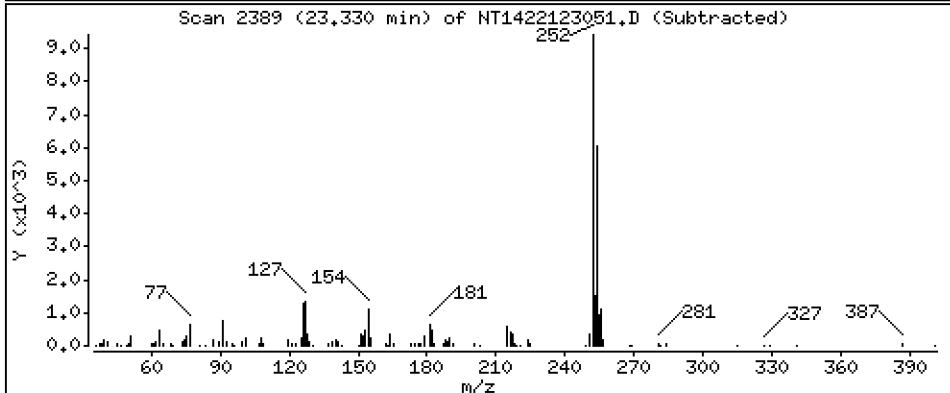
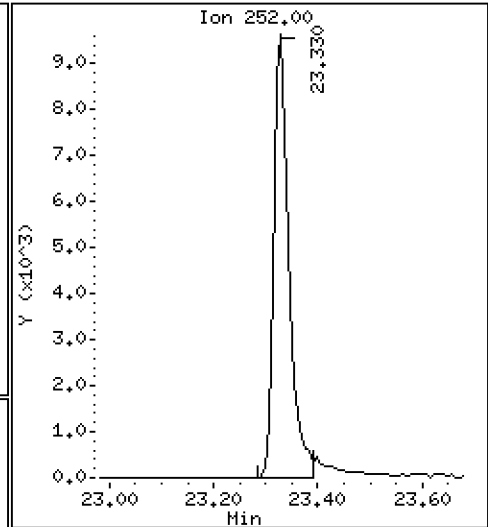
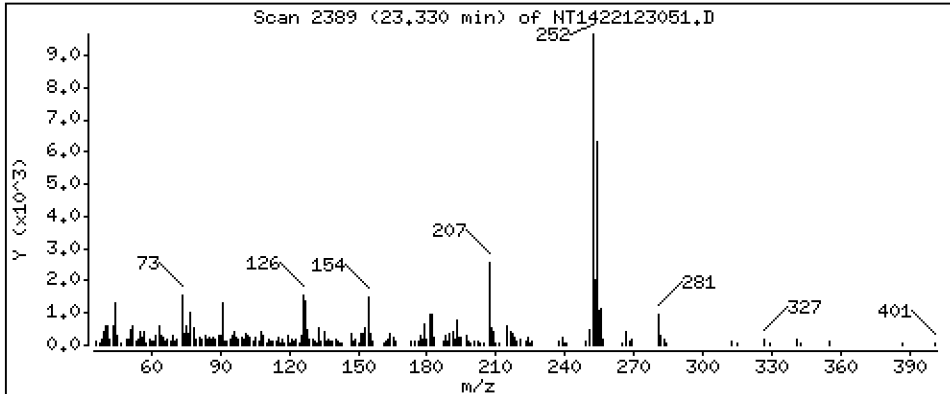
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6962 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

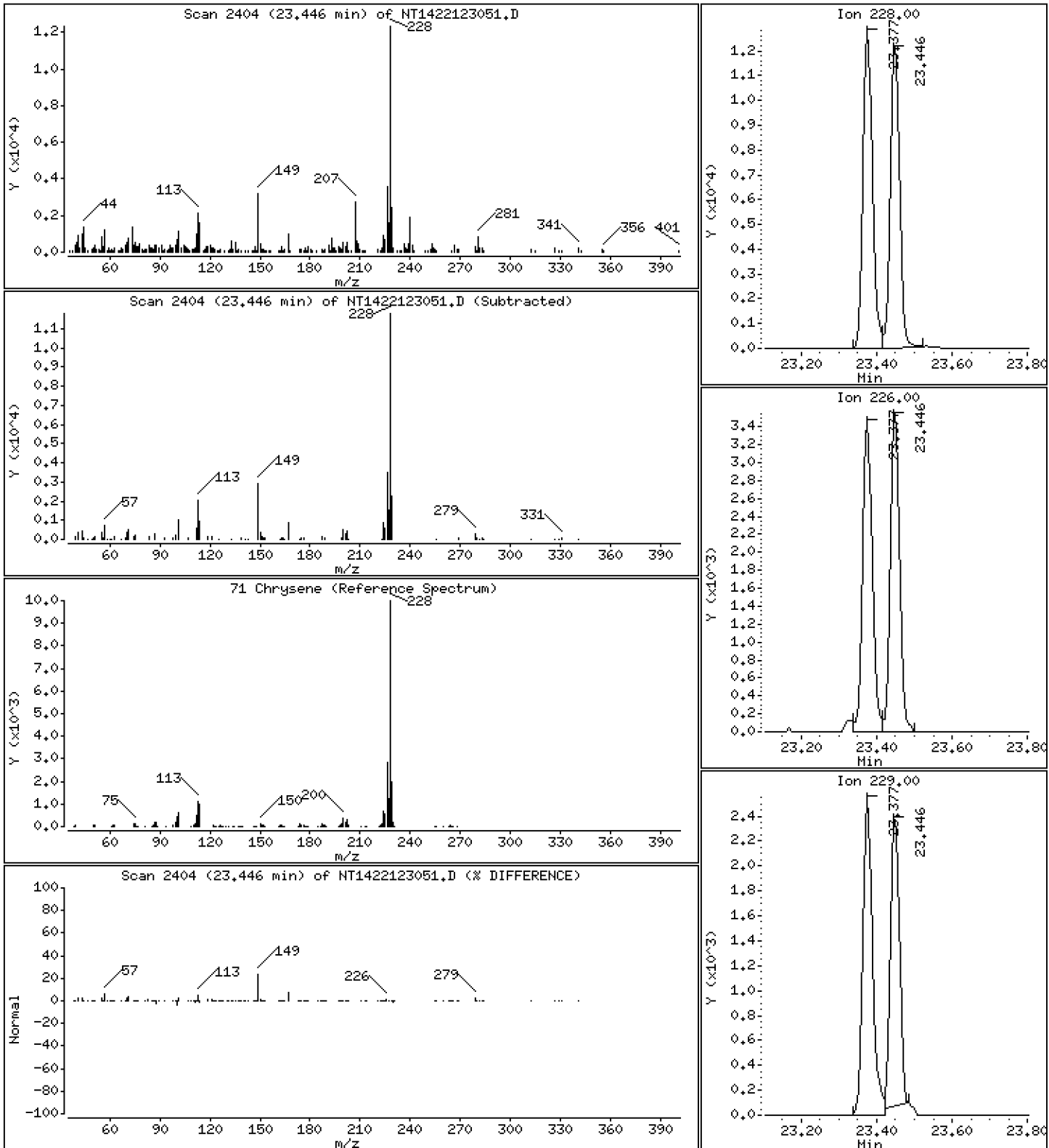
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2414 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

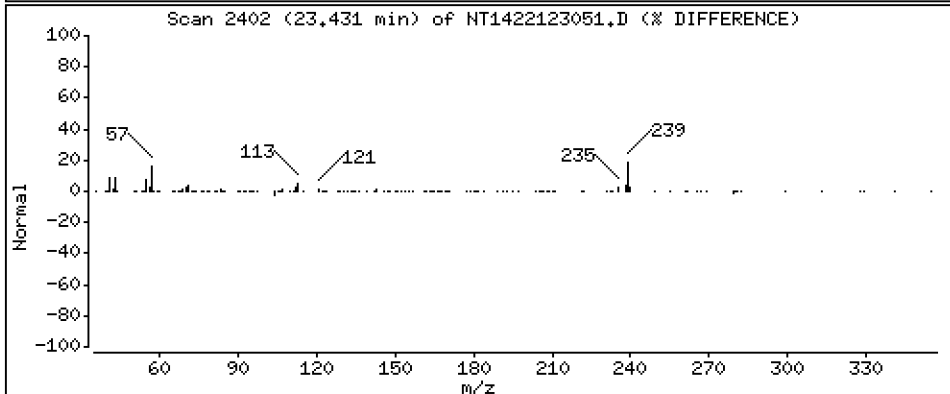
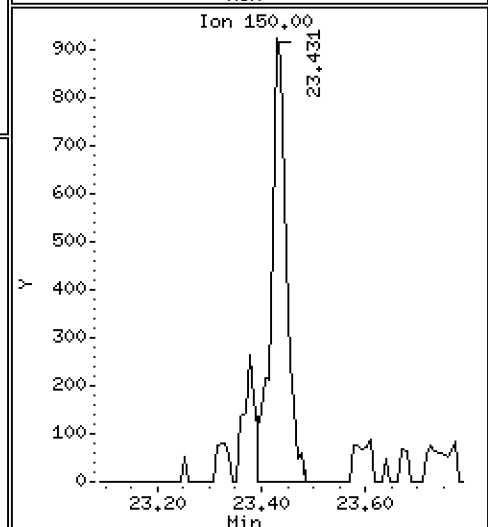
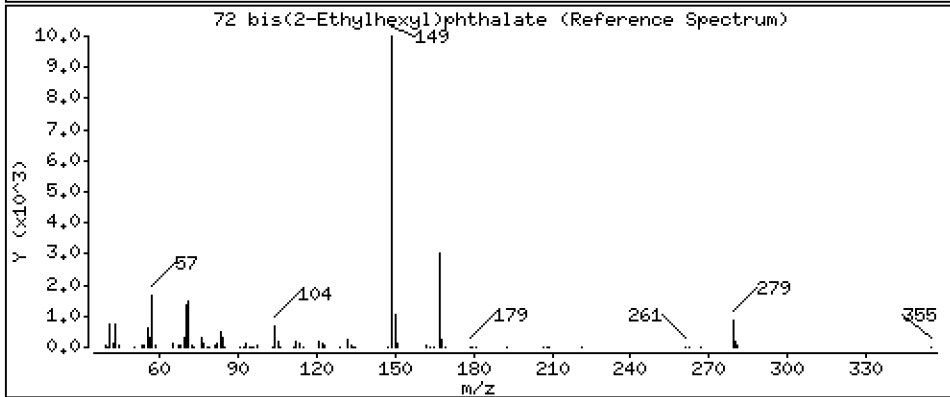
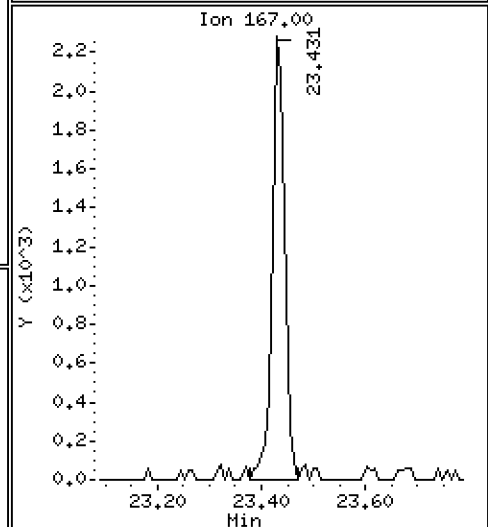
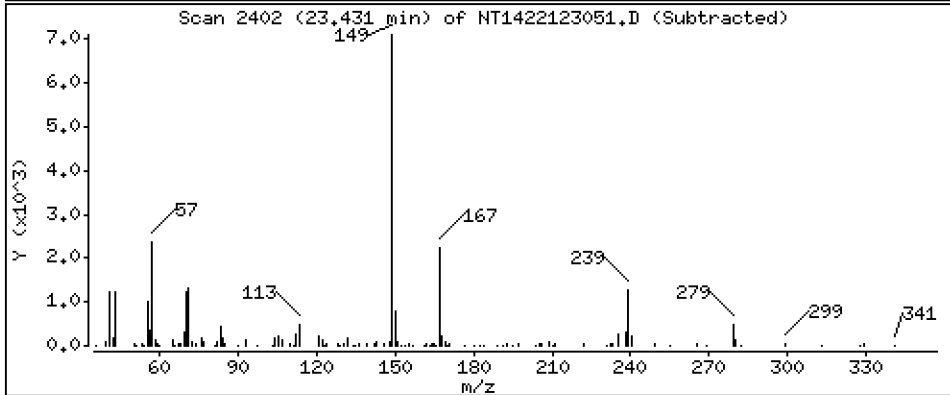
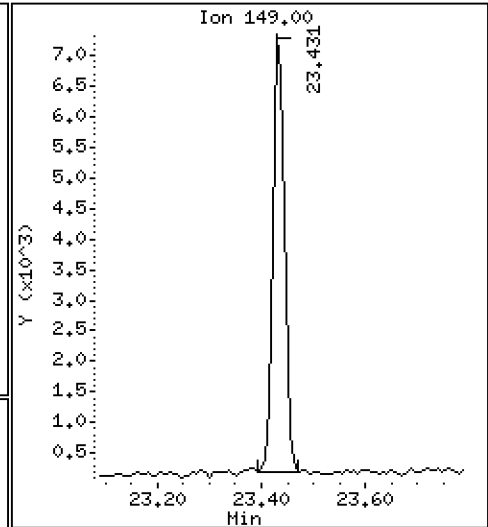
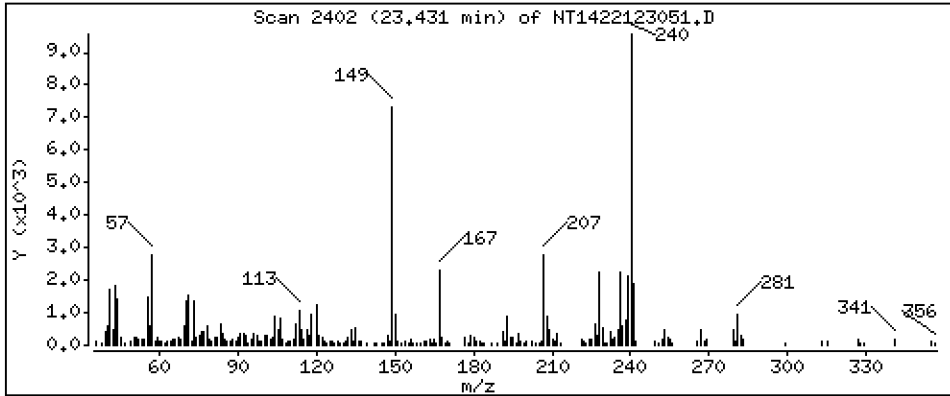
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2185 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

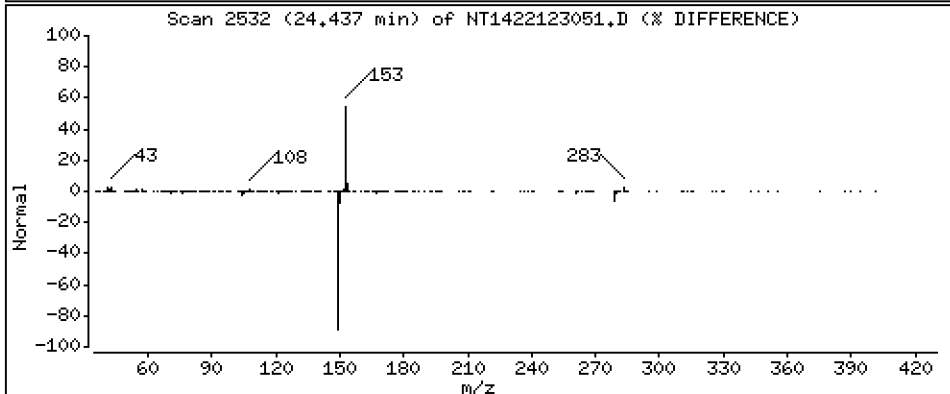
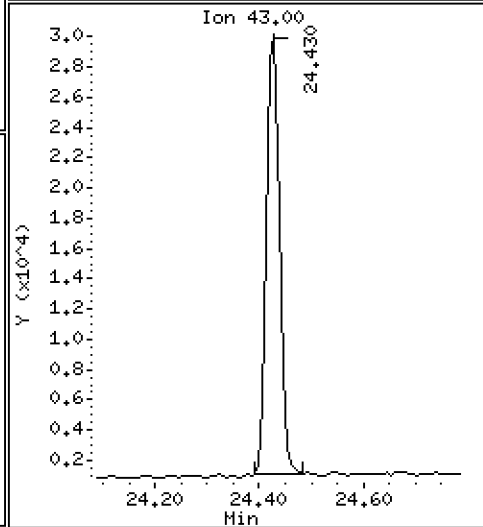
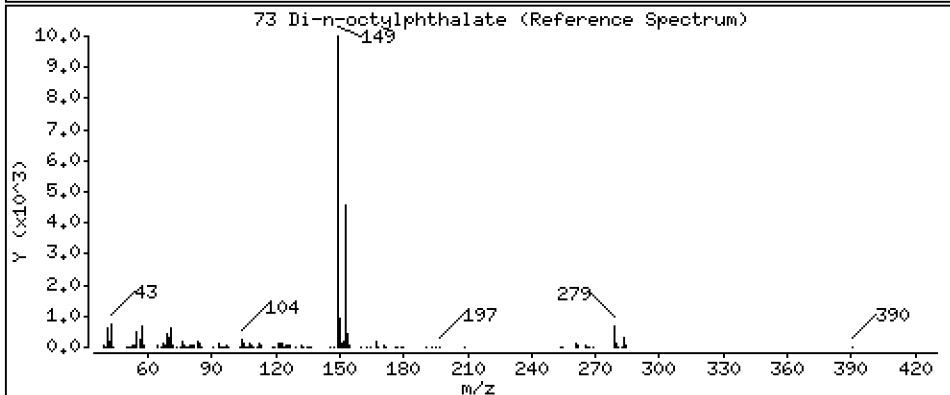
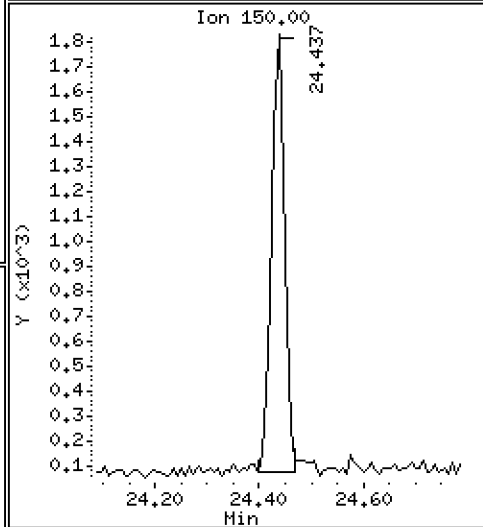
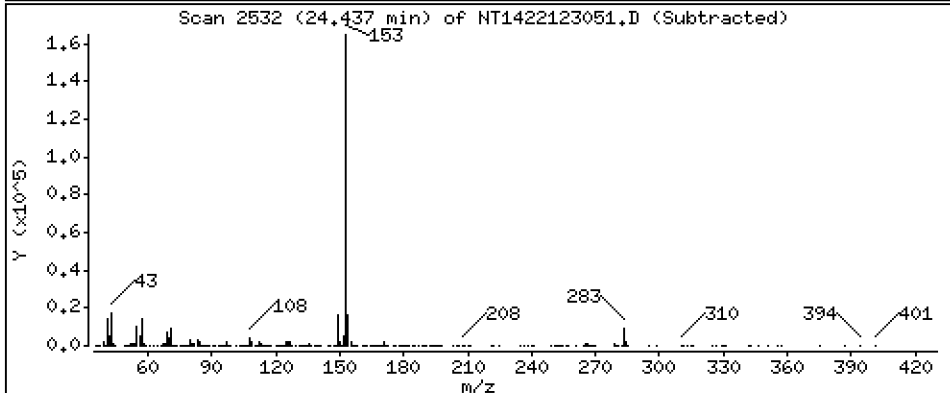
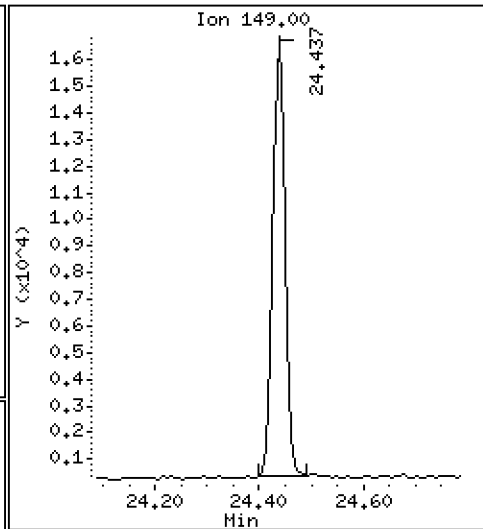
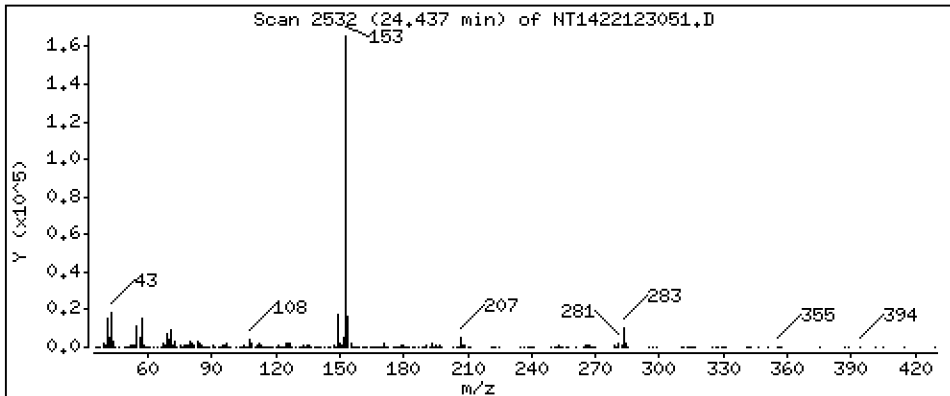
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2419 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

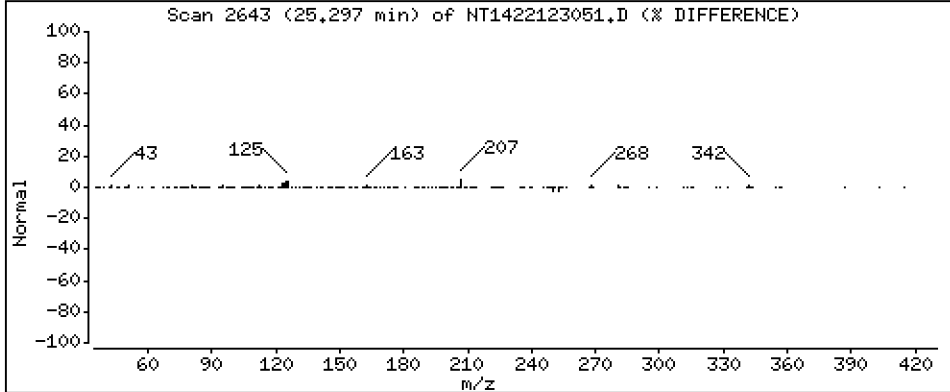
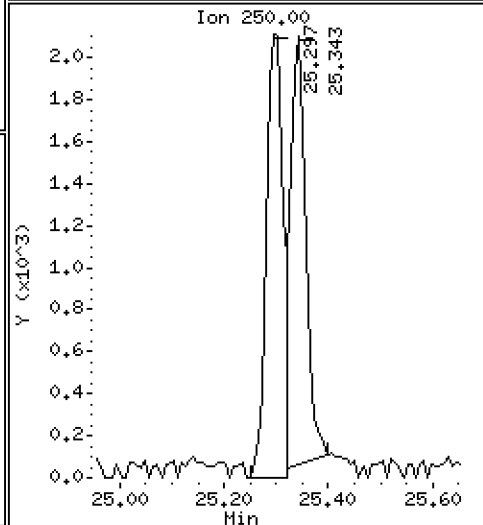
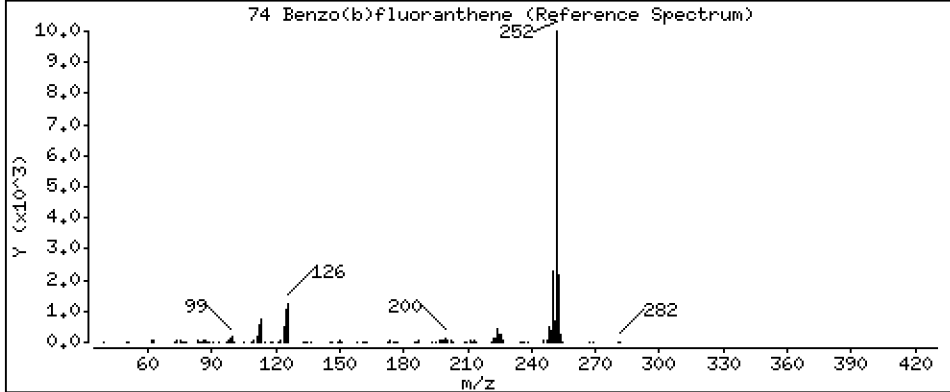
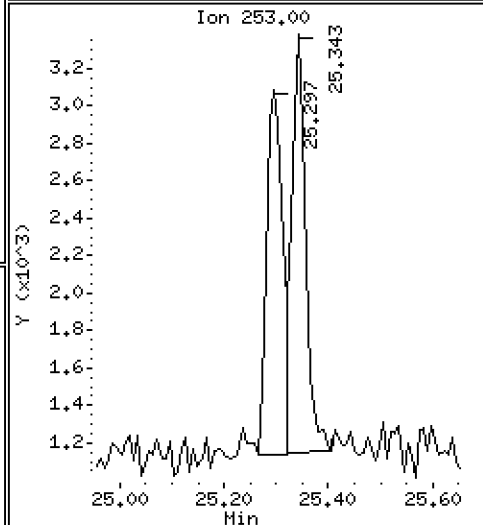
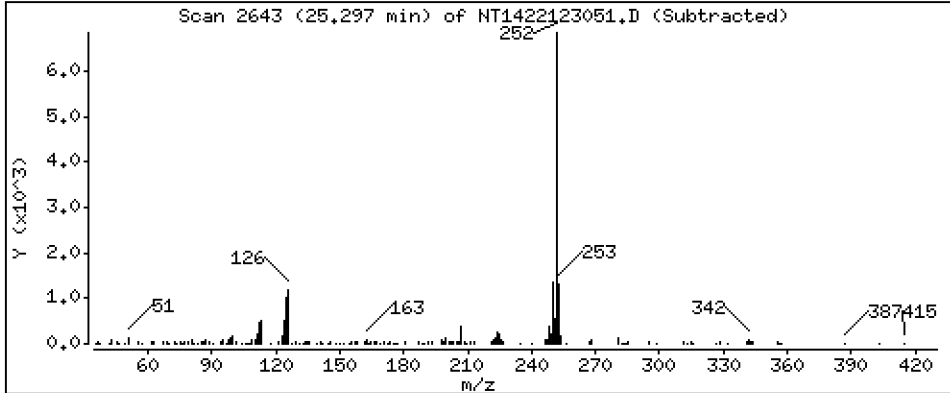
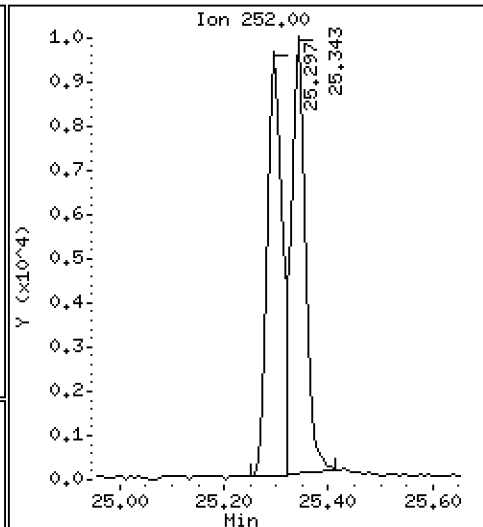
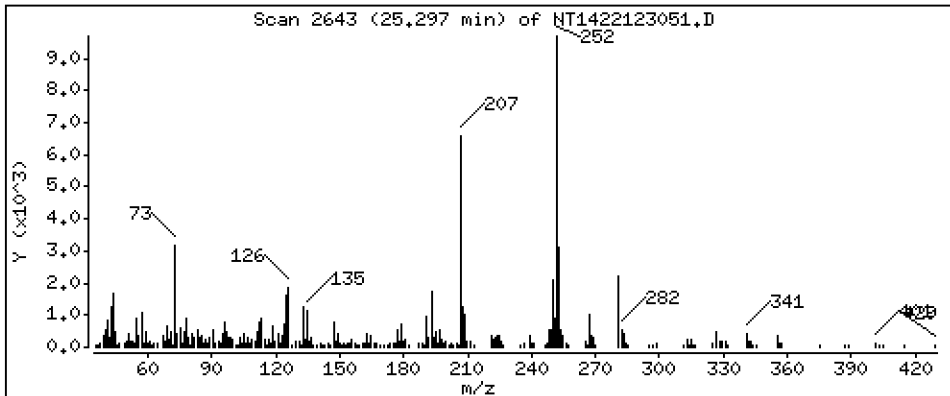
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2459 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

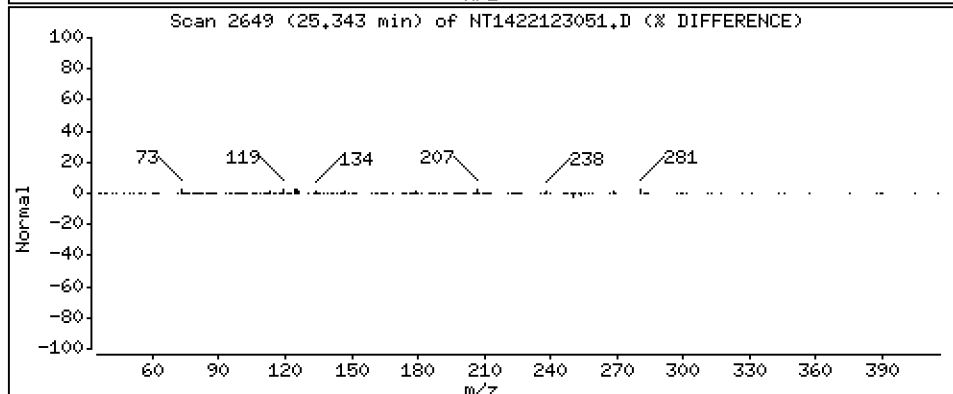
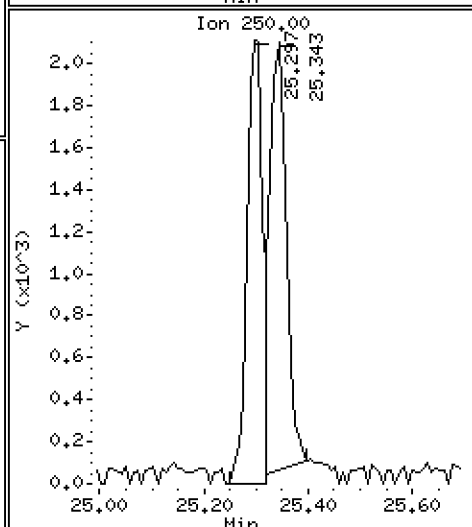
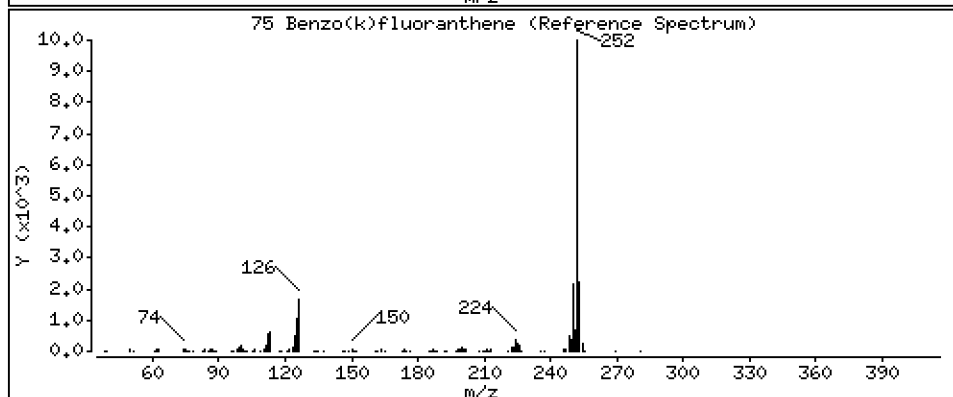
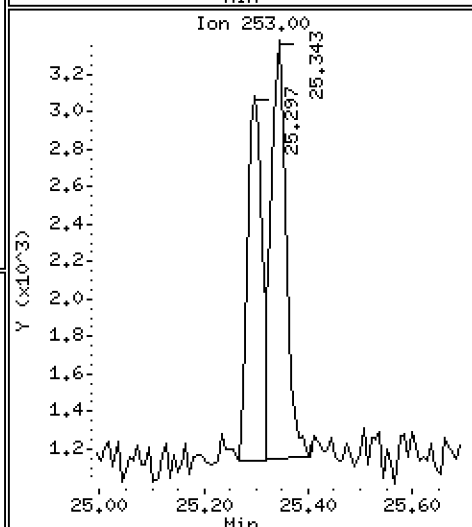
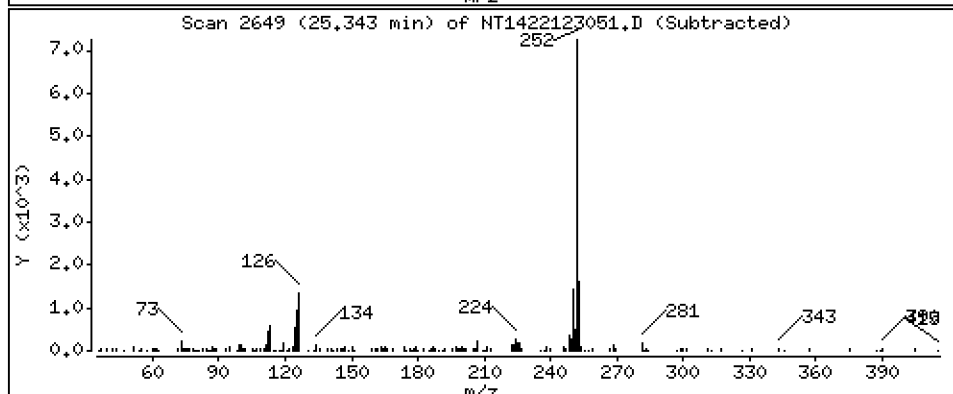
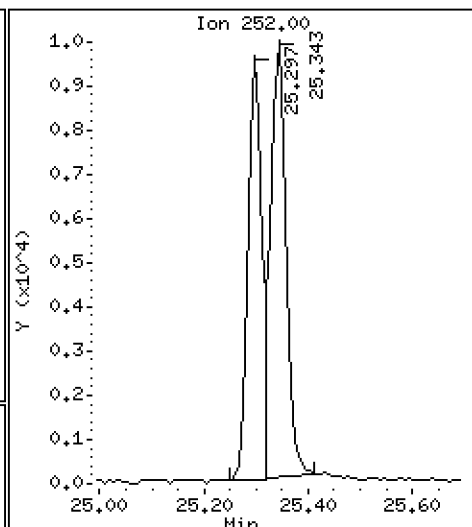
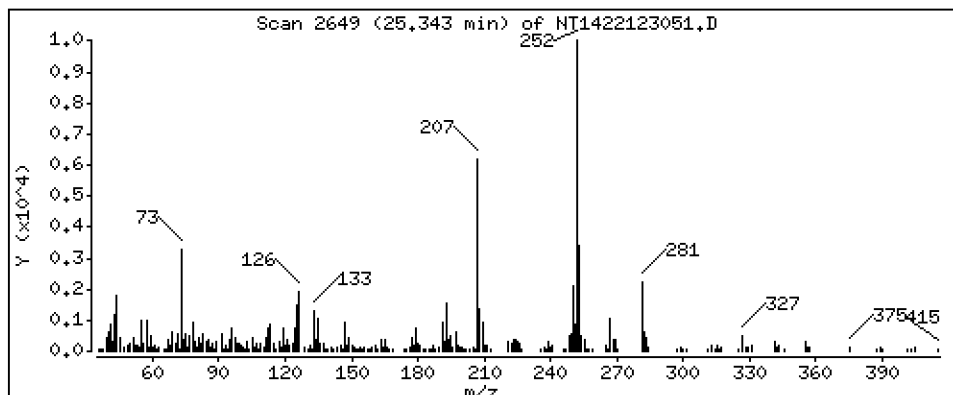
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2549 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

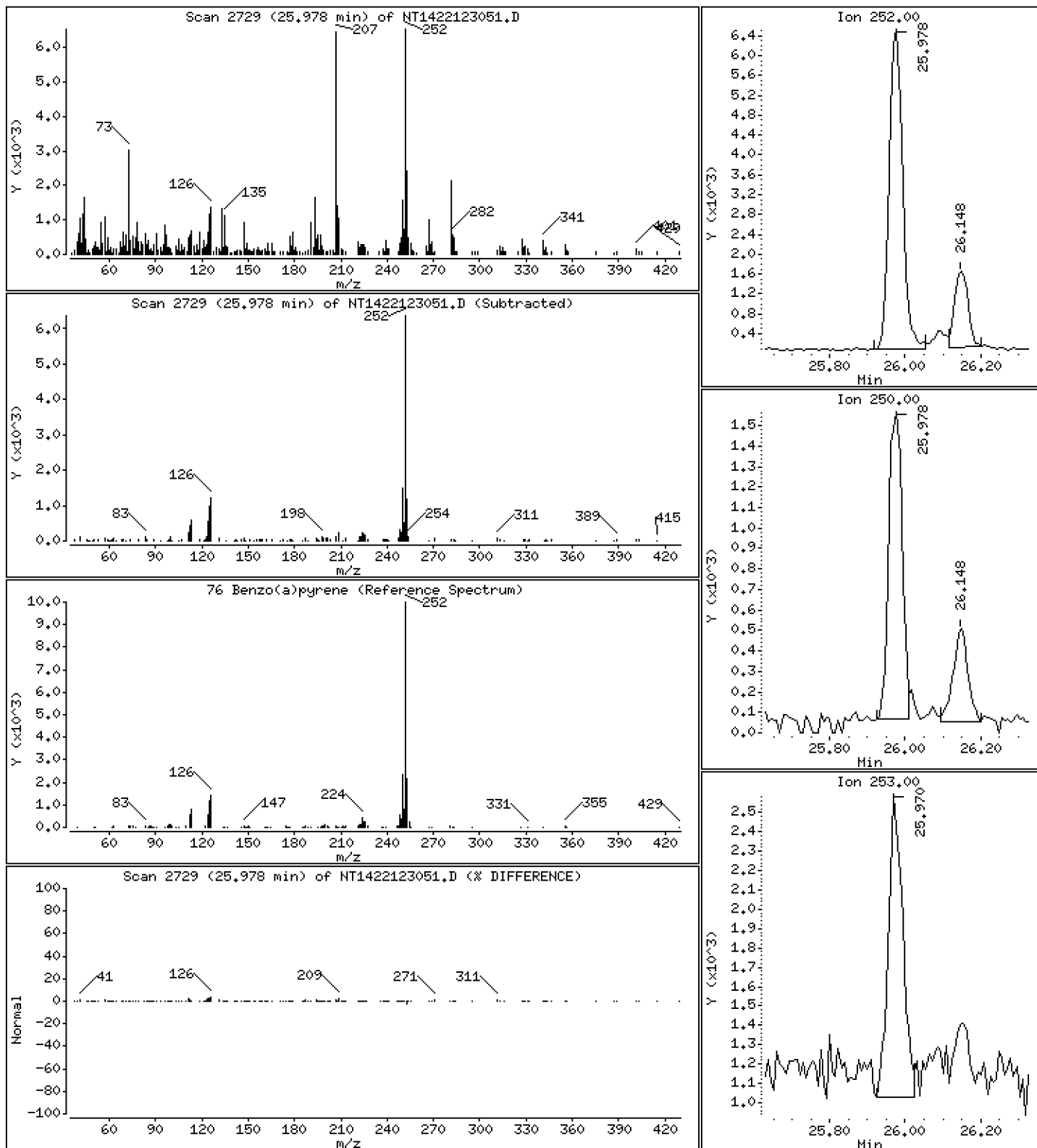
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2416 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

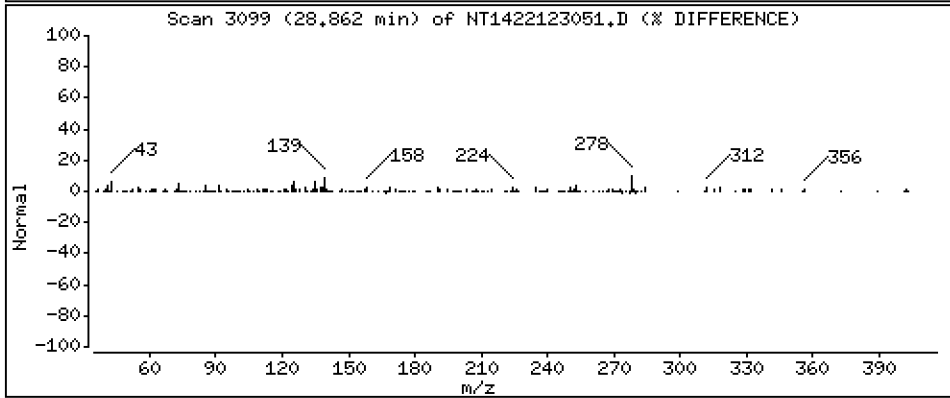
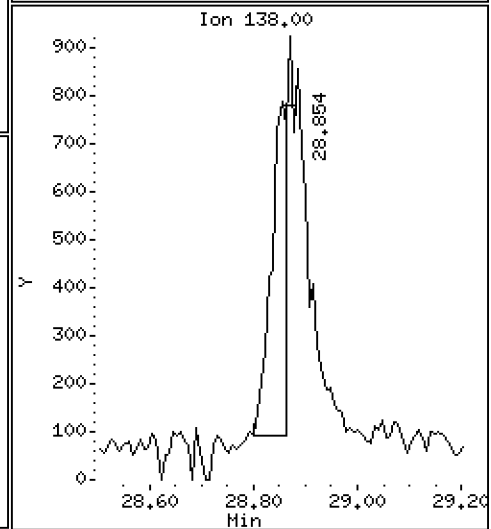
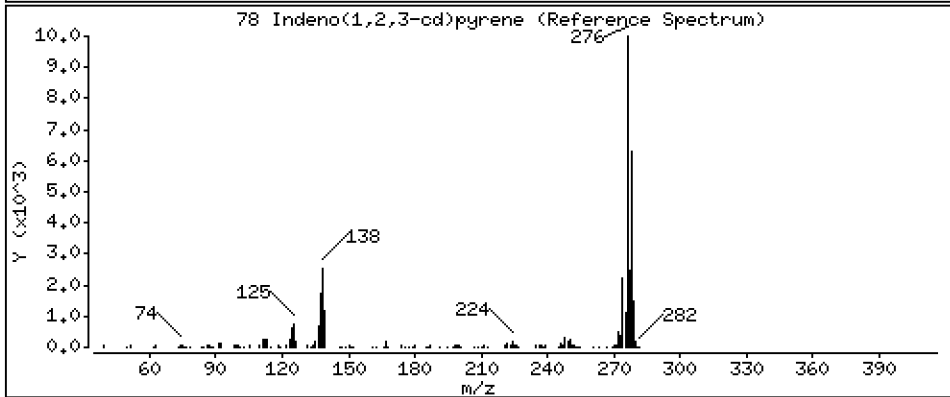
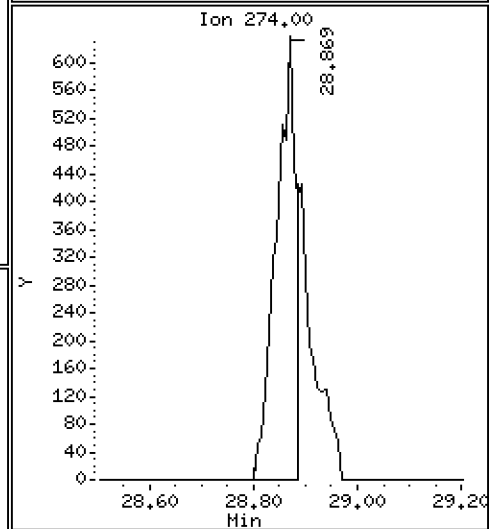
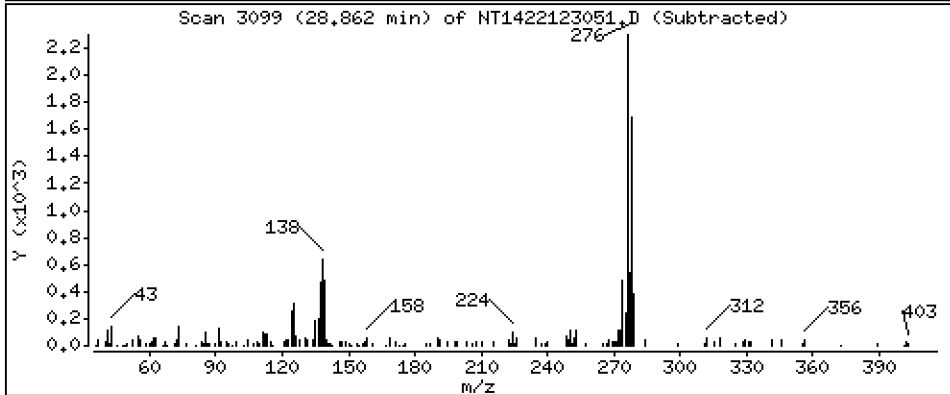
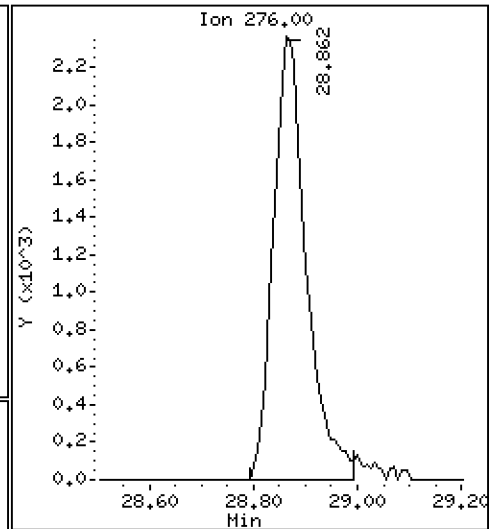
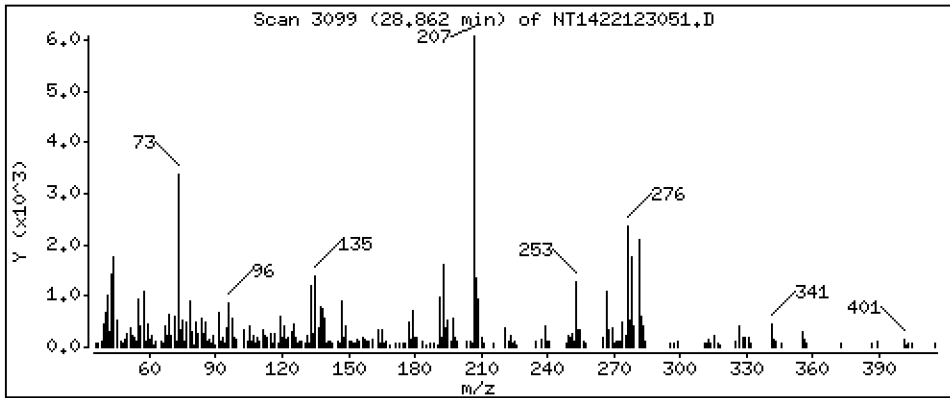
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1427 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

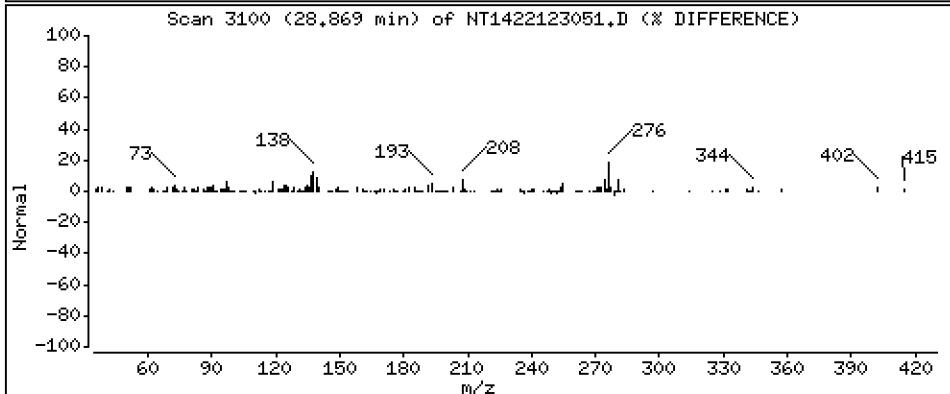
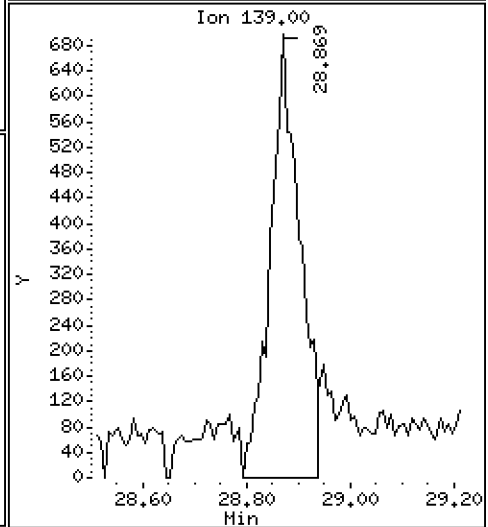
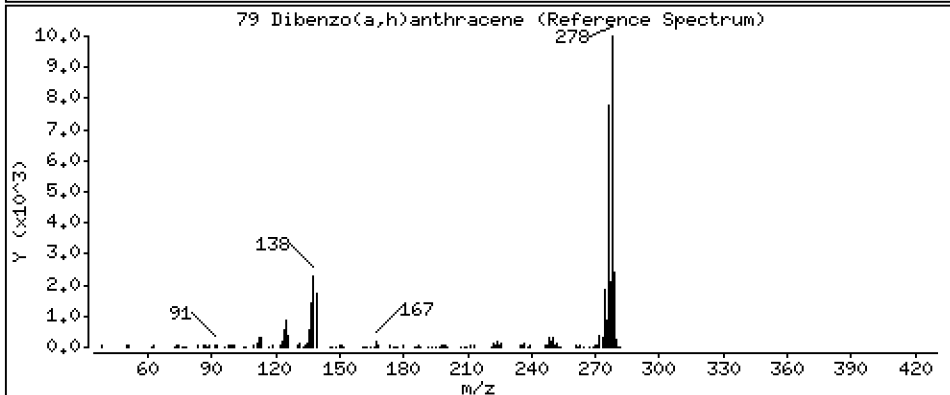
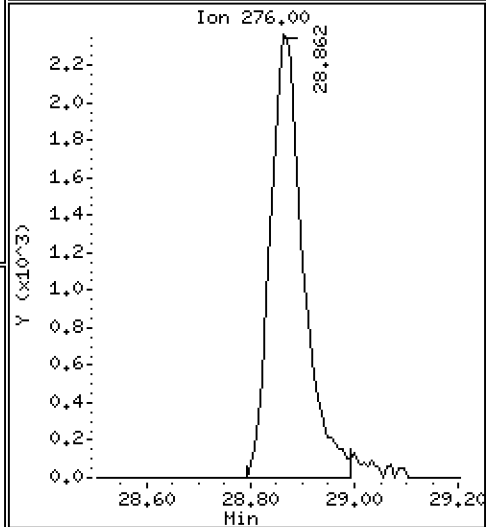
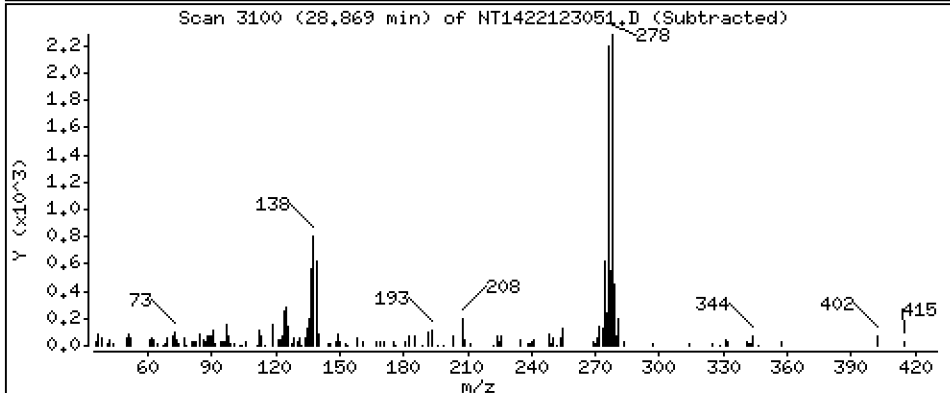
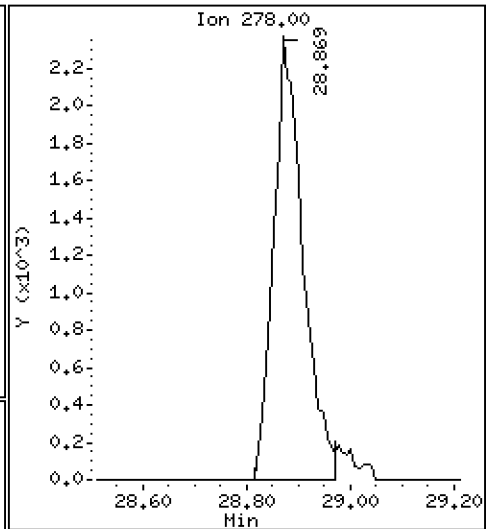
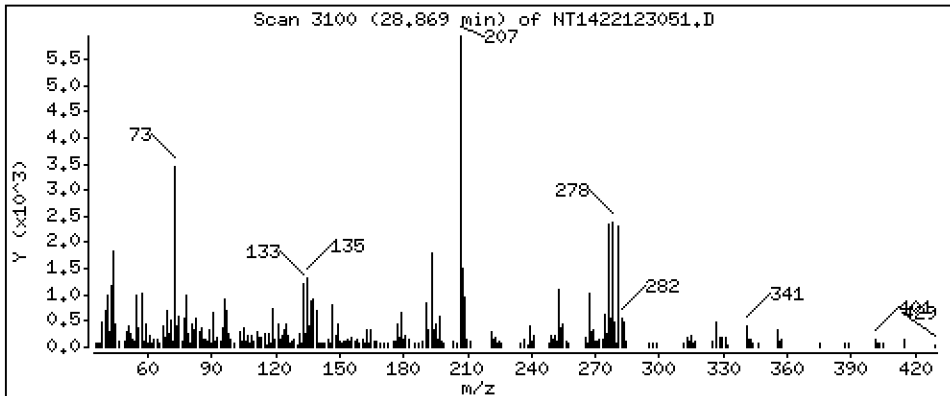
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1497 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

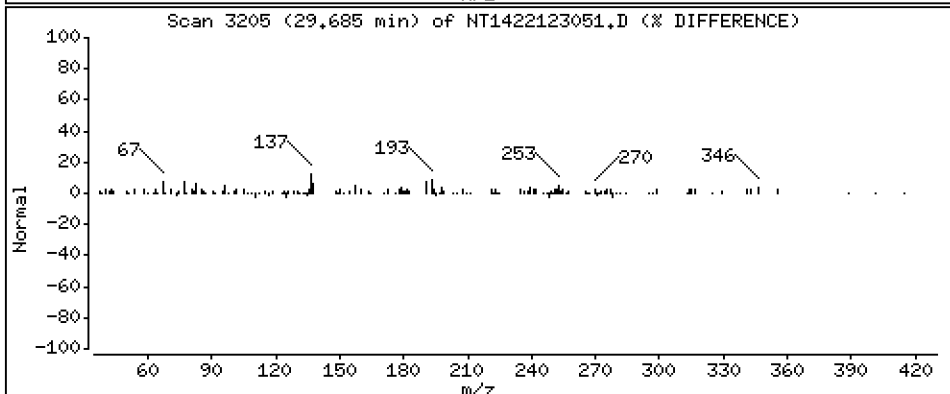
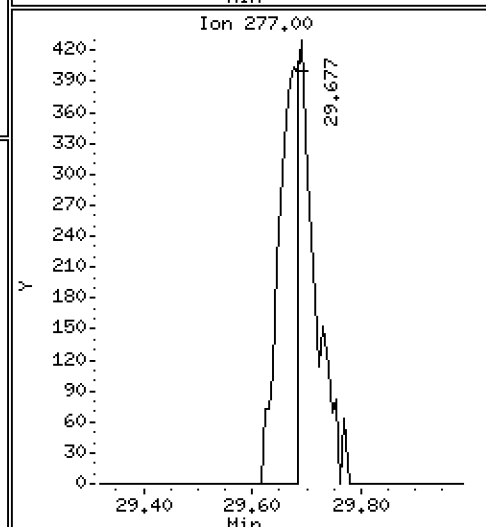
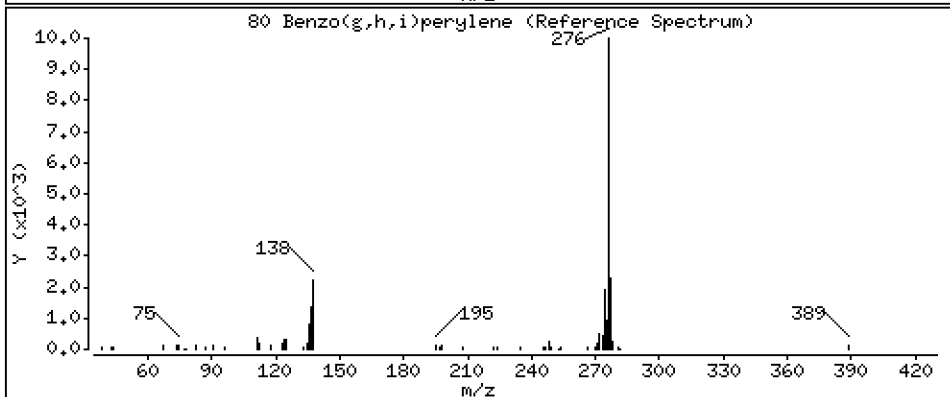
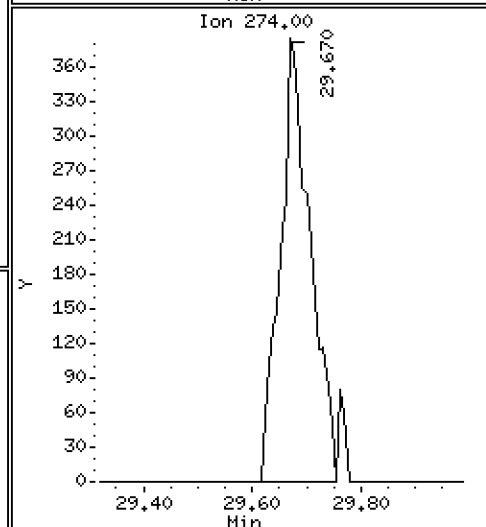
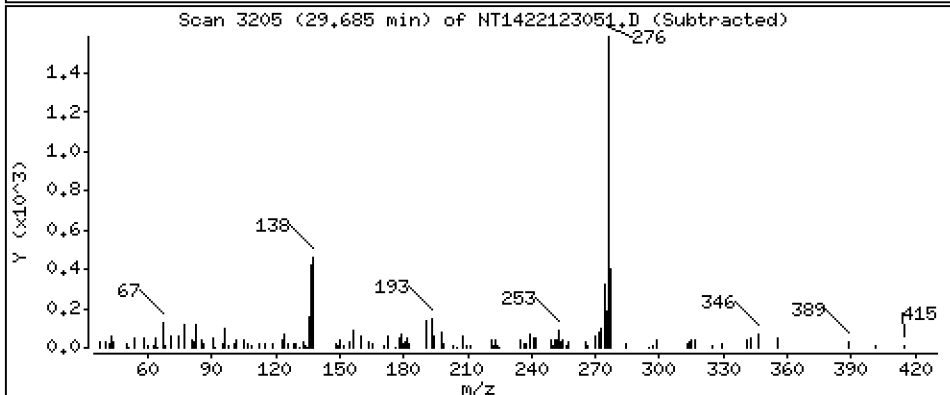
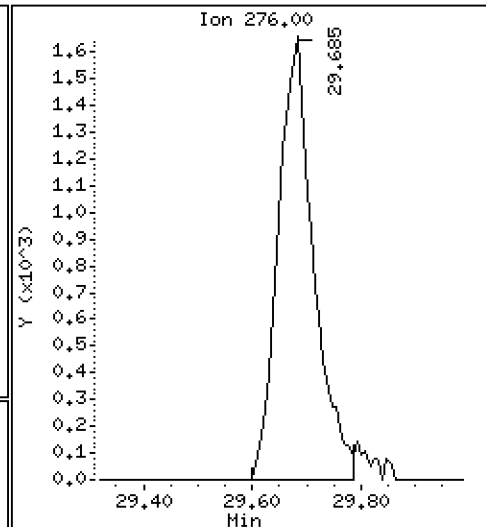
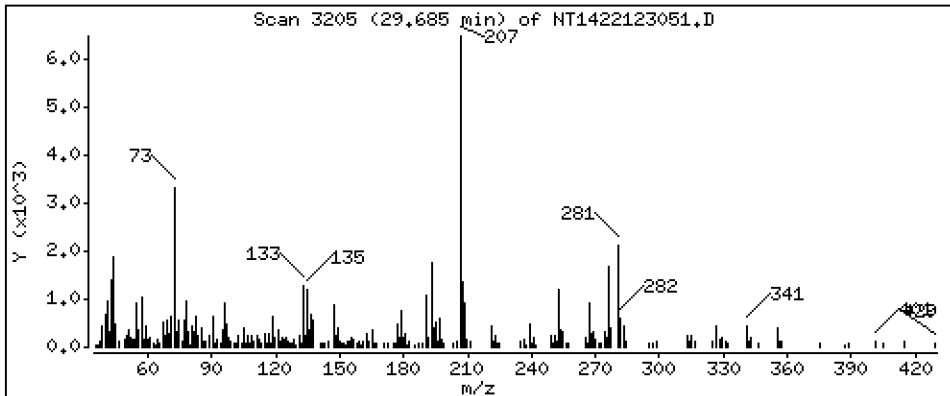
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1229 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

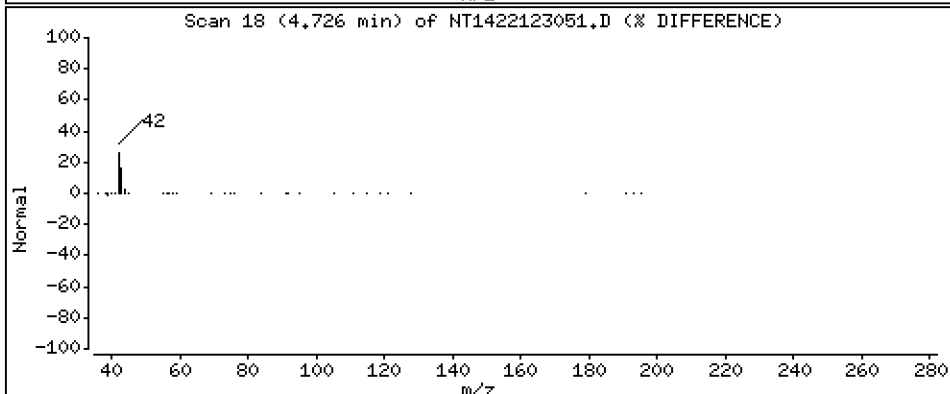
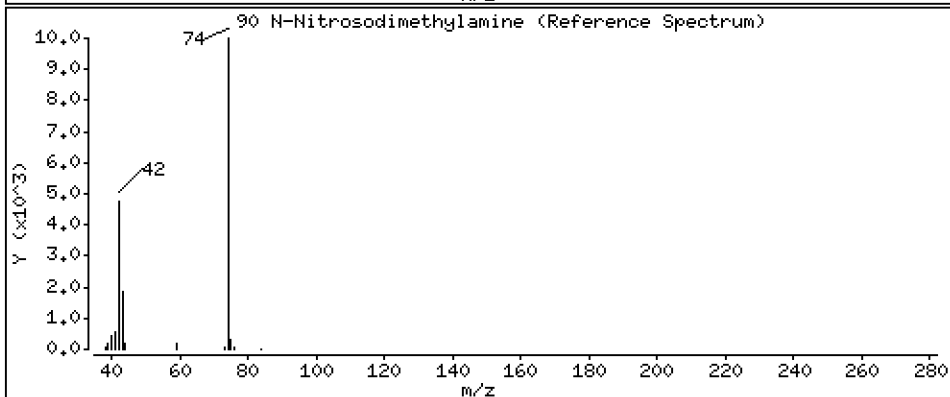
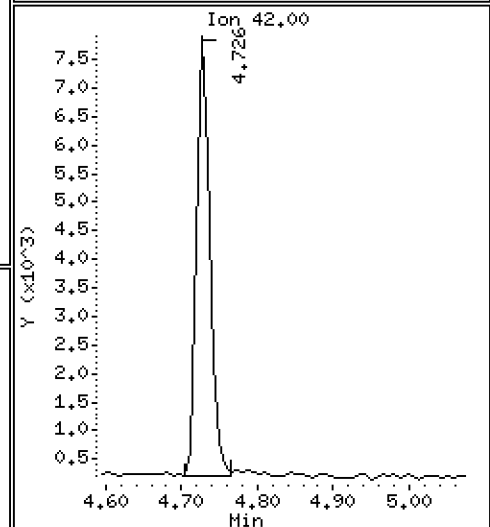
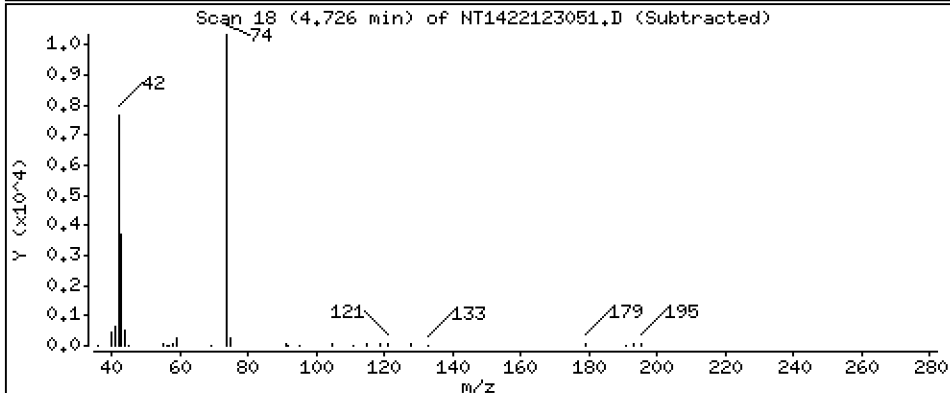
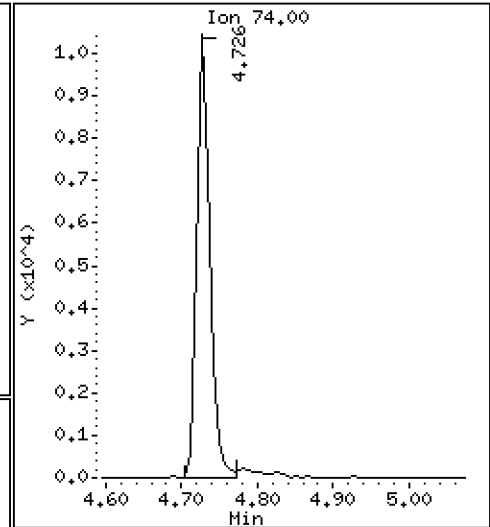
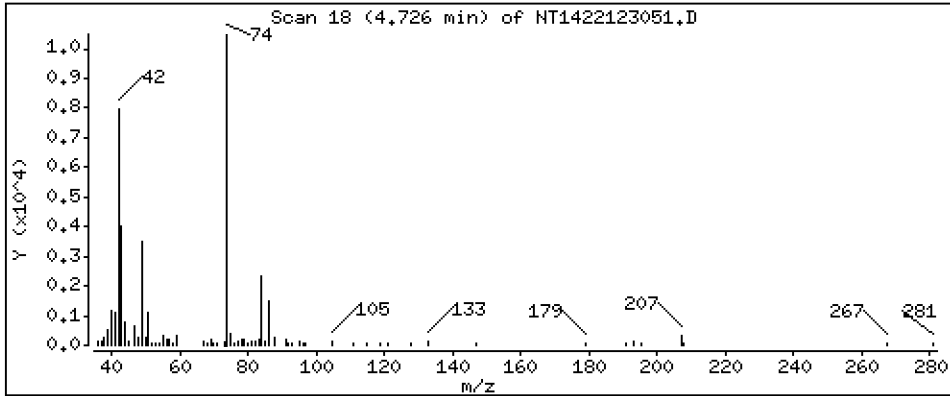
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,4965 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

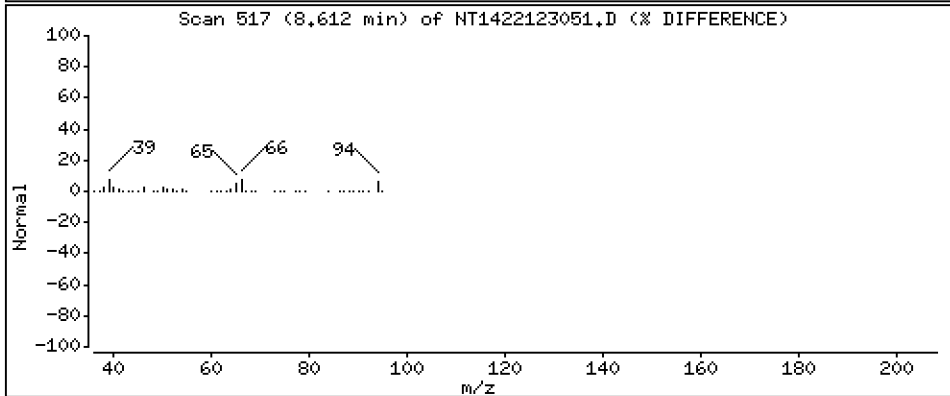
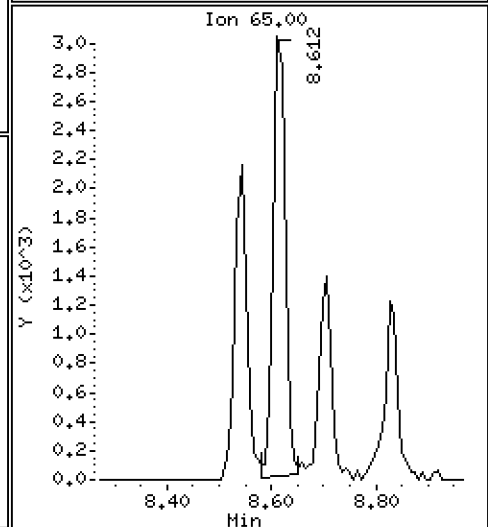
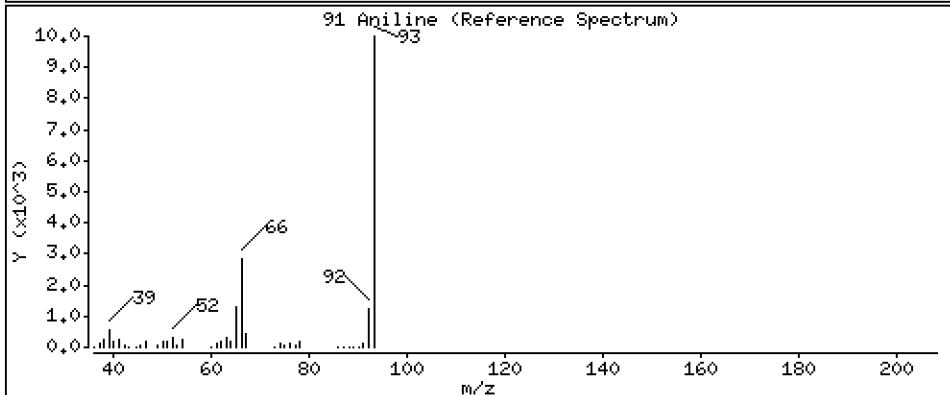
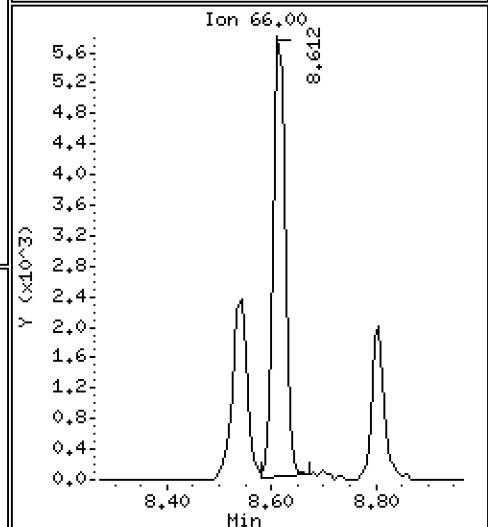
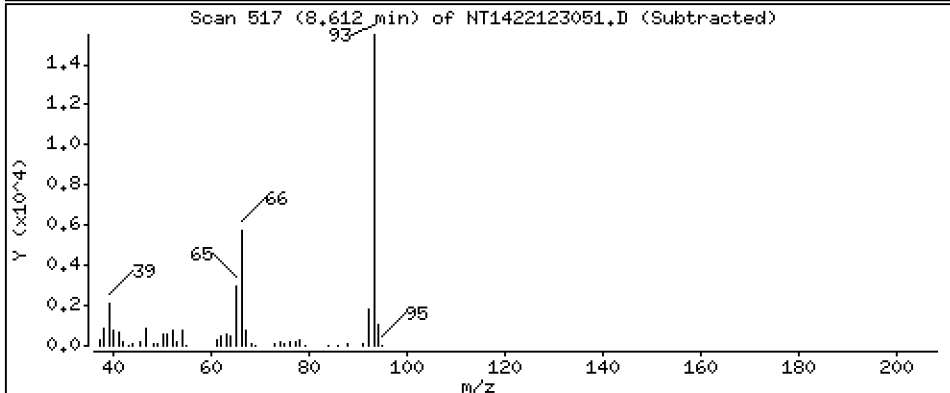
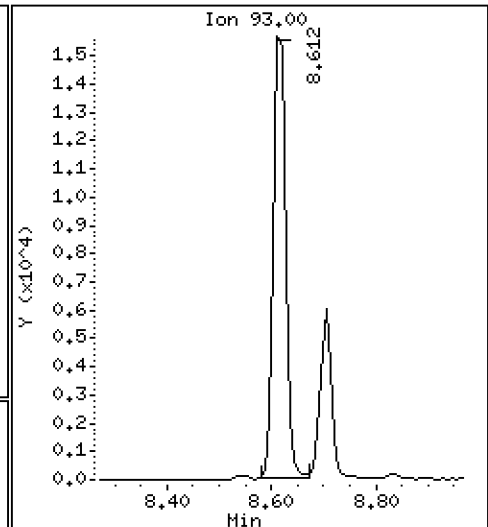
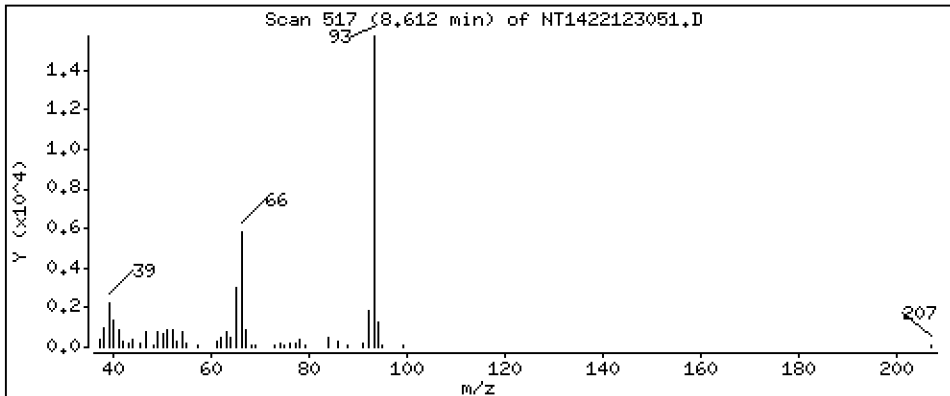
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4714 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

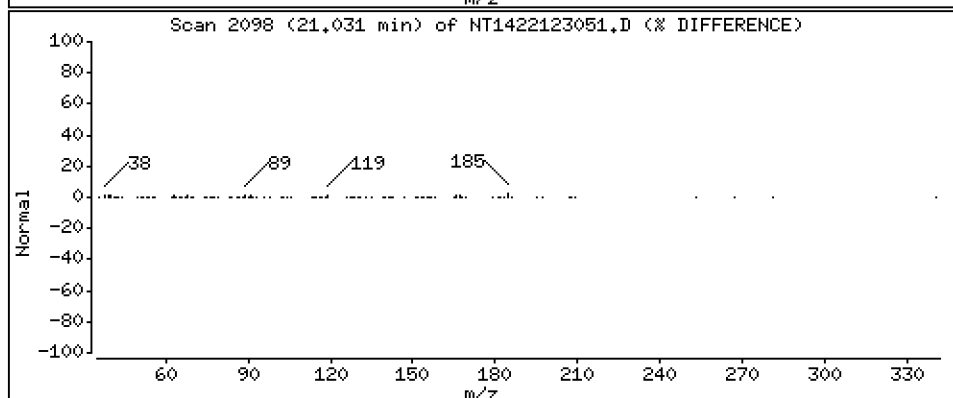
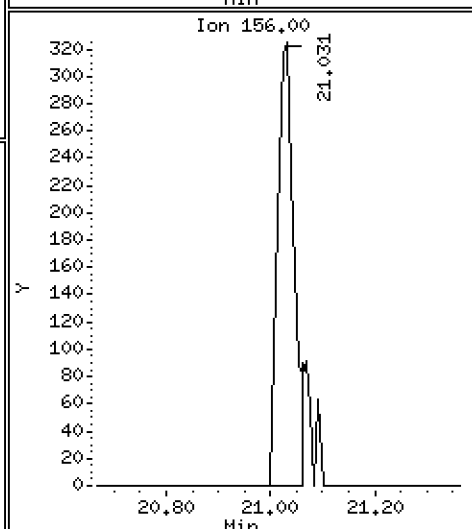
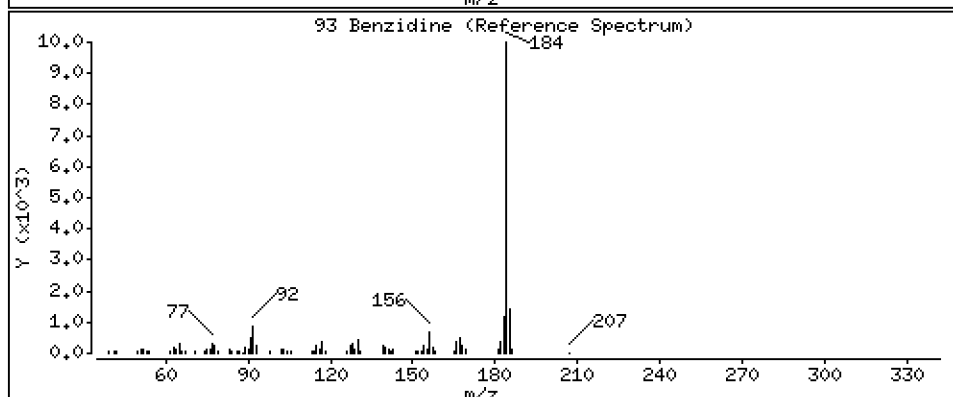
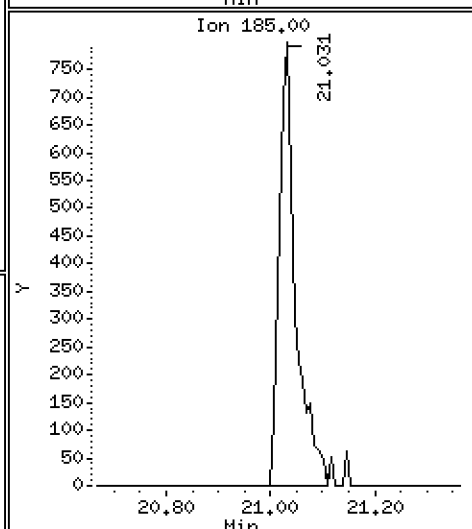
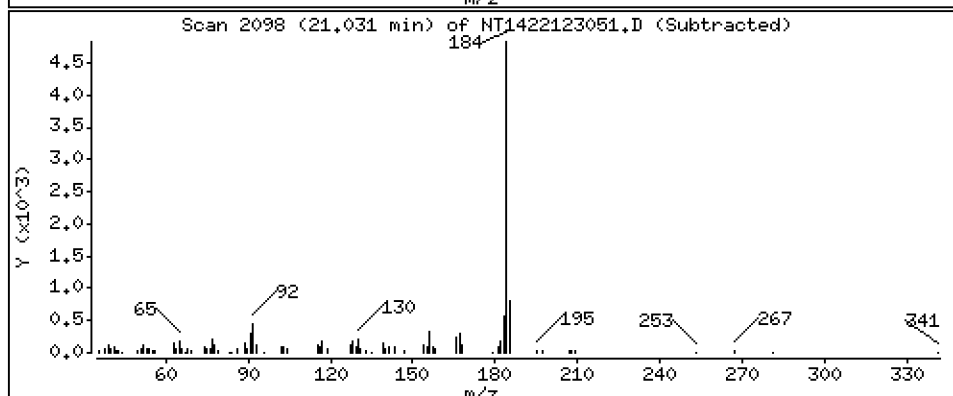
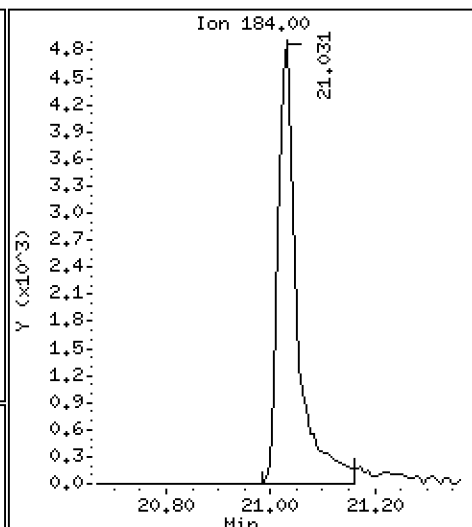
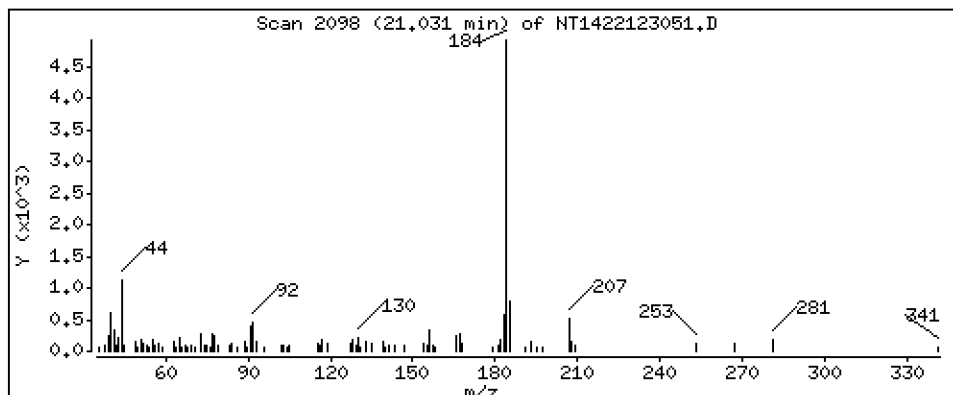
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,3471 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

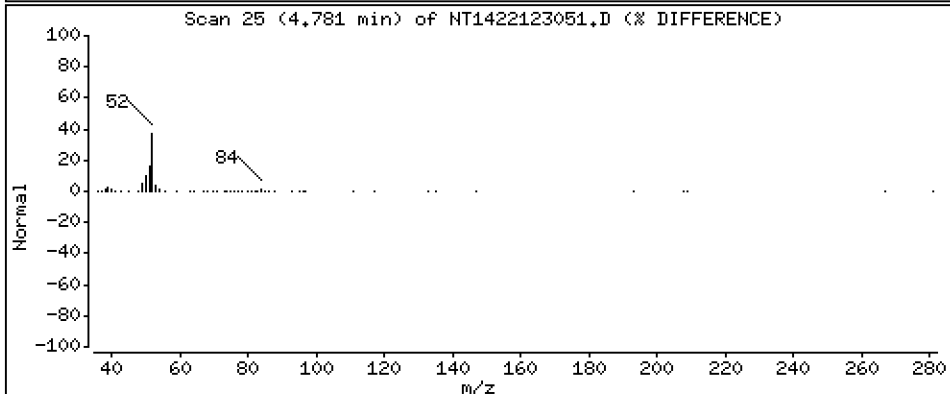
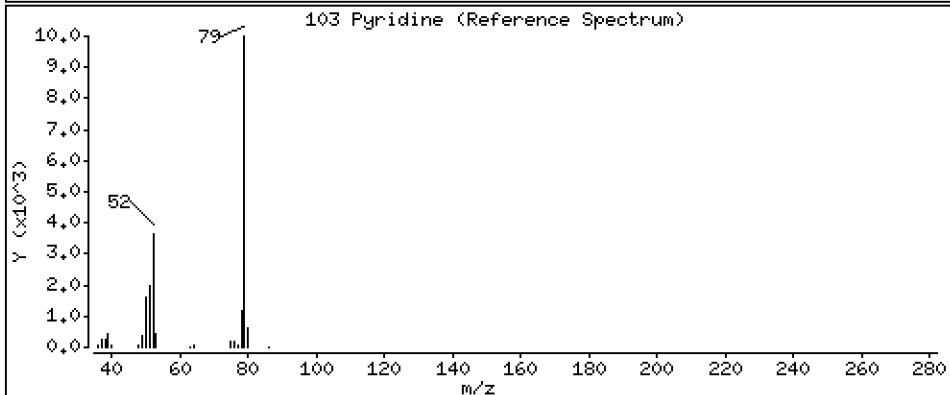
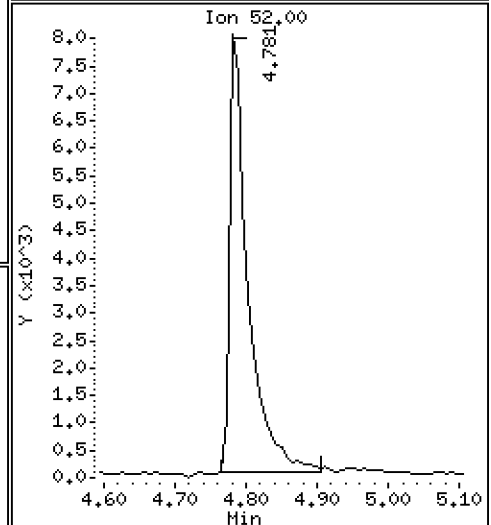
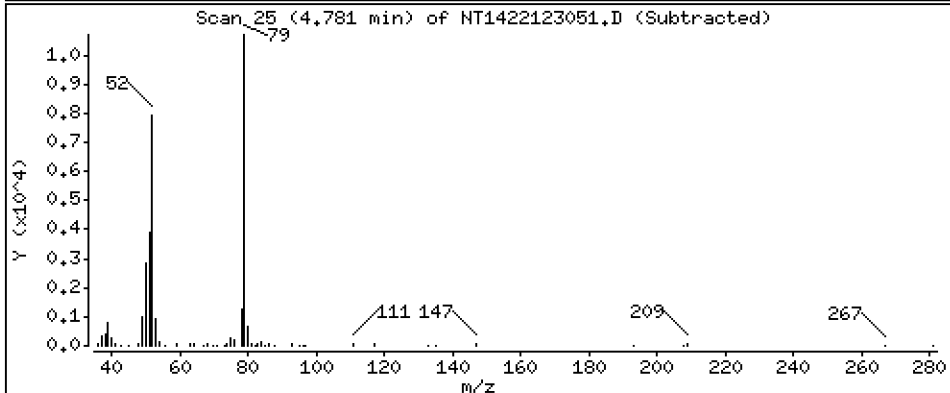
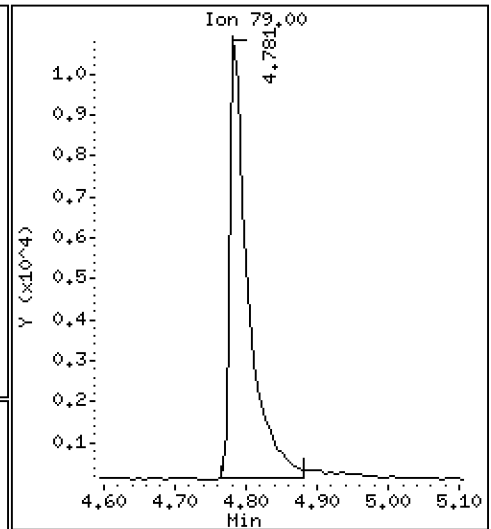
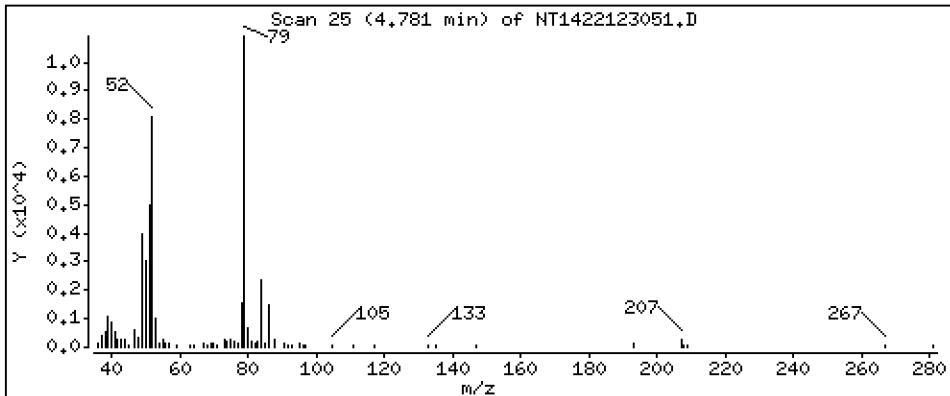
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,2428 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

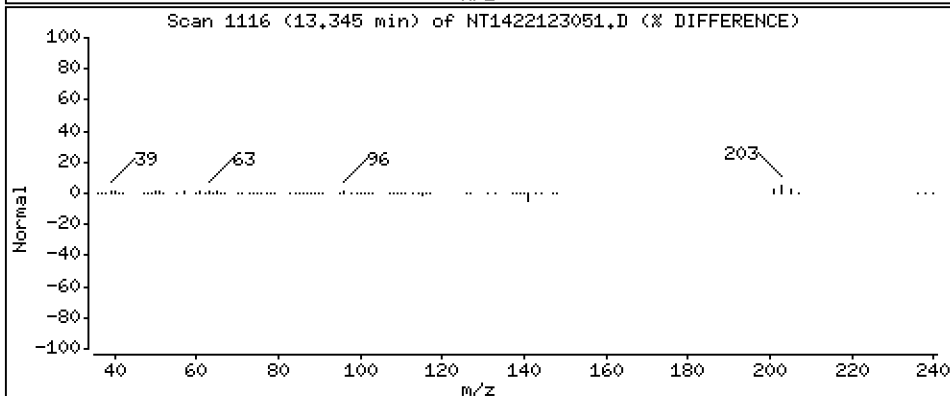
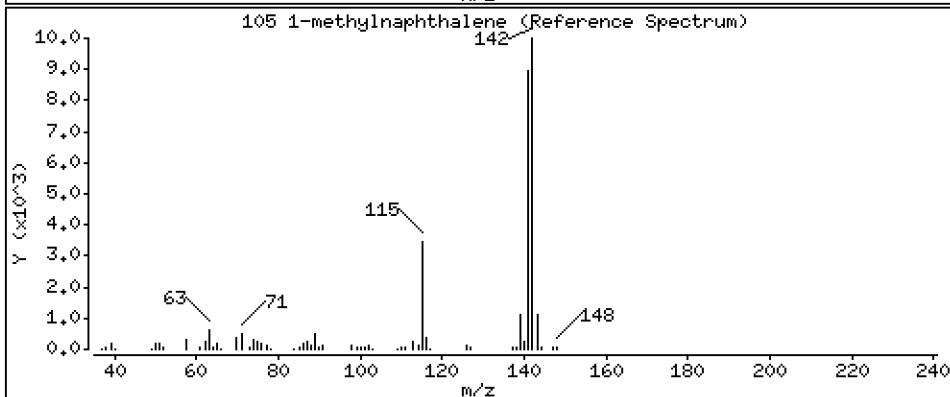
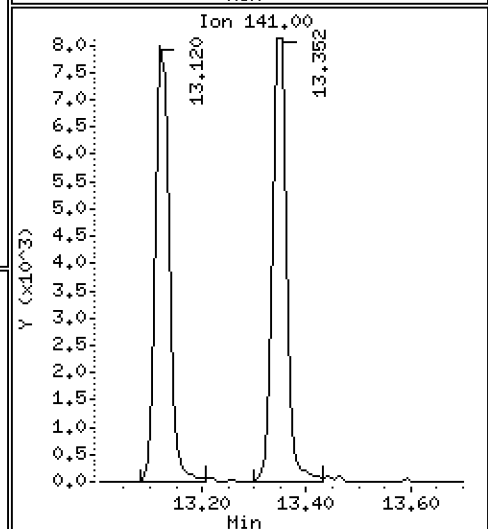
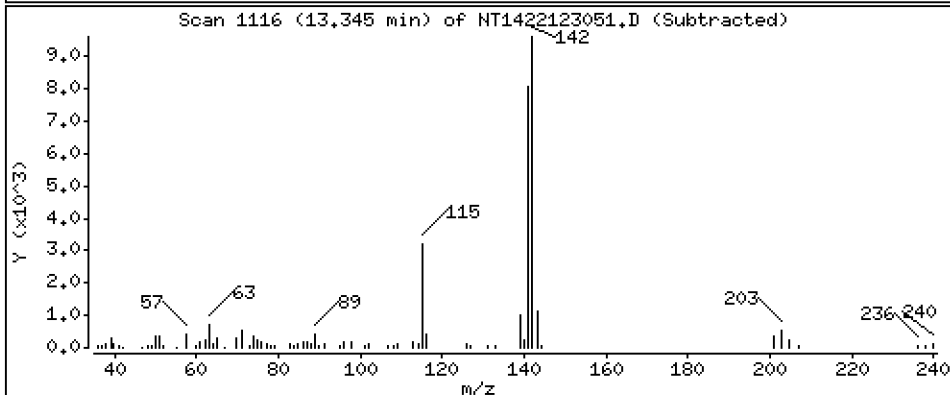
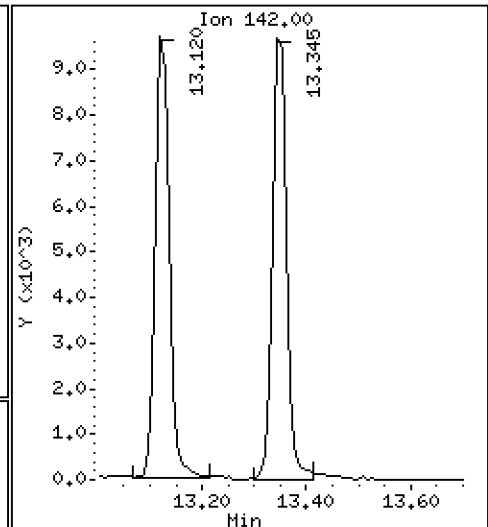
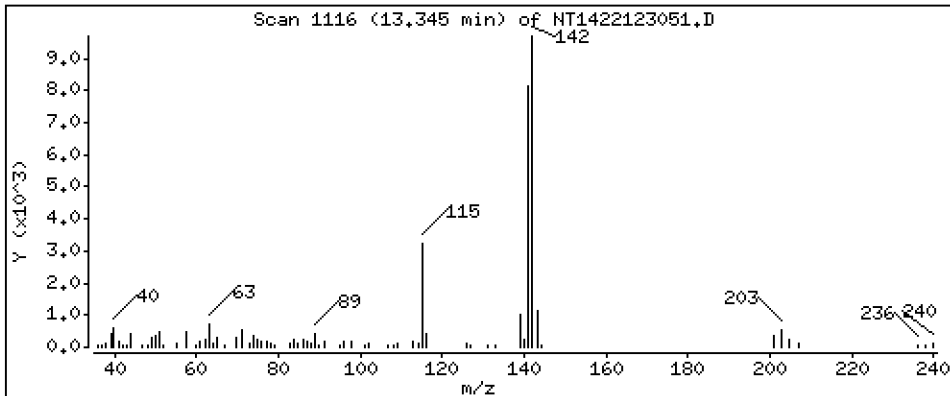
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2317 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

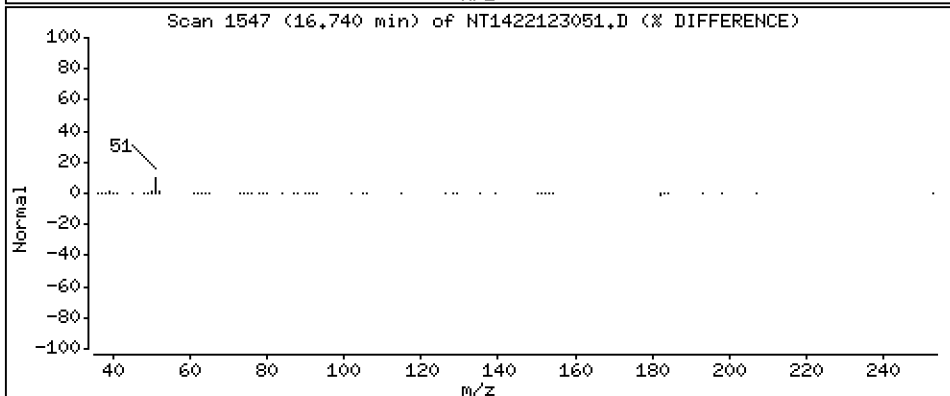
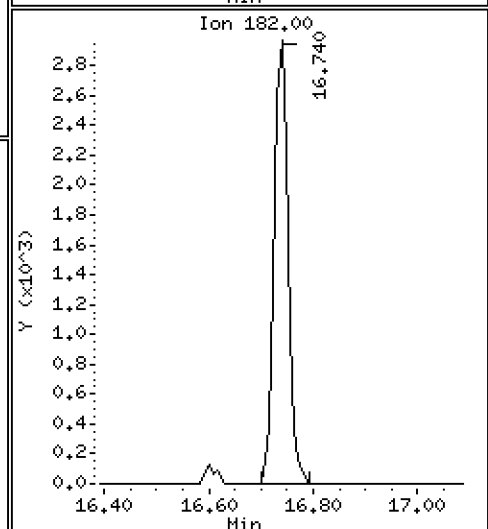
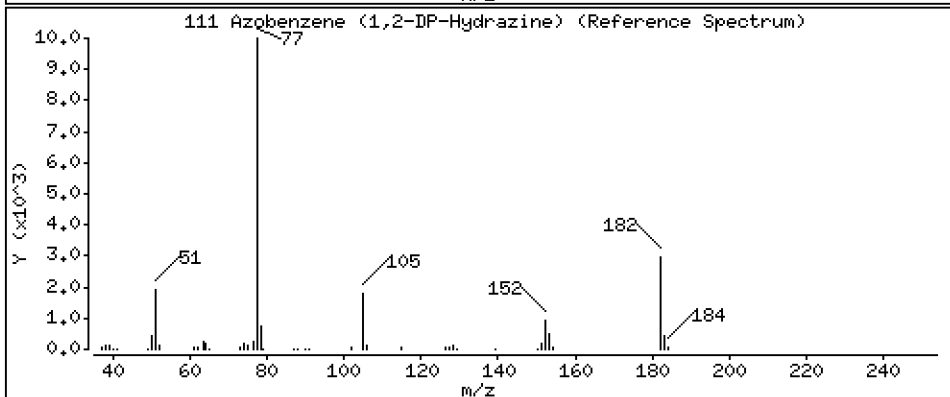
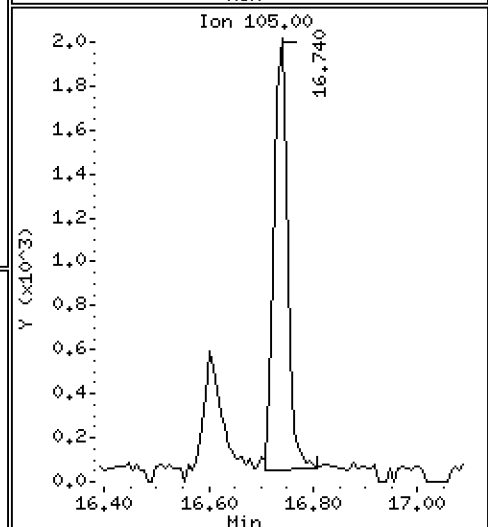
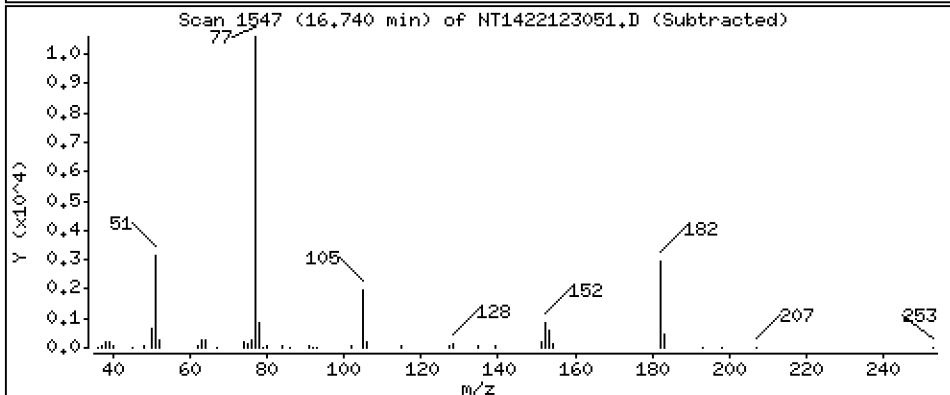
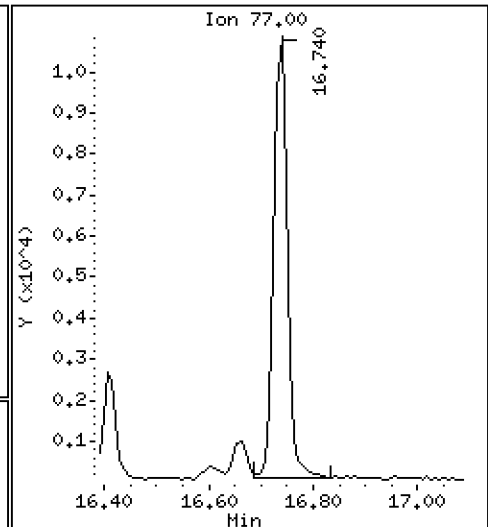
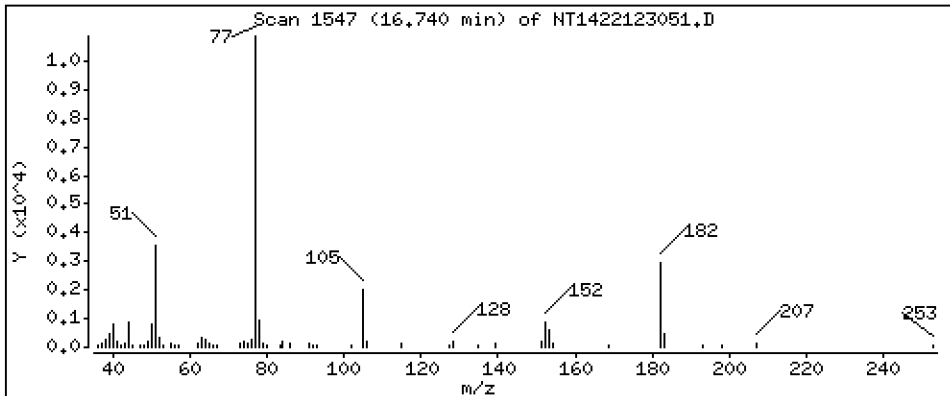
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2322 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

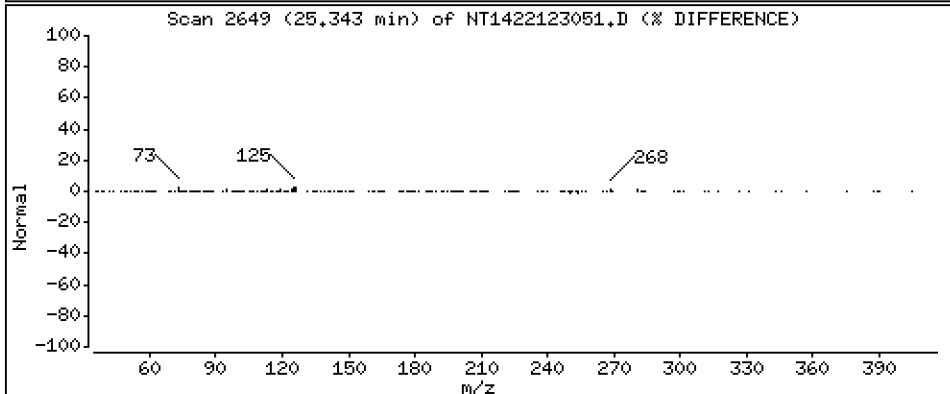
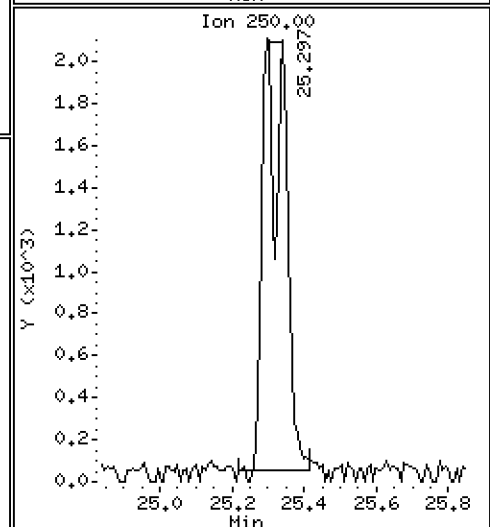
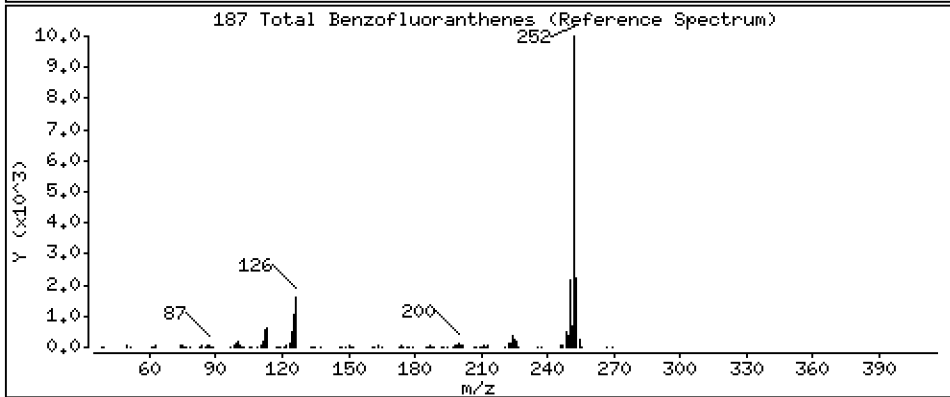
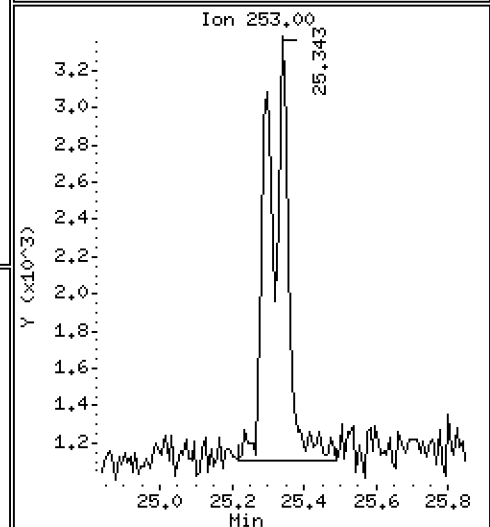
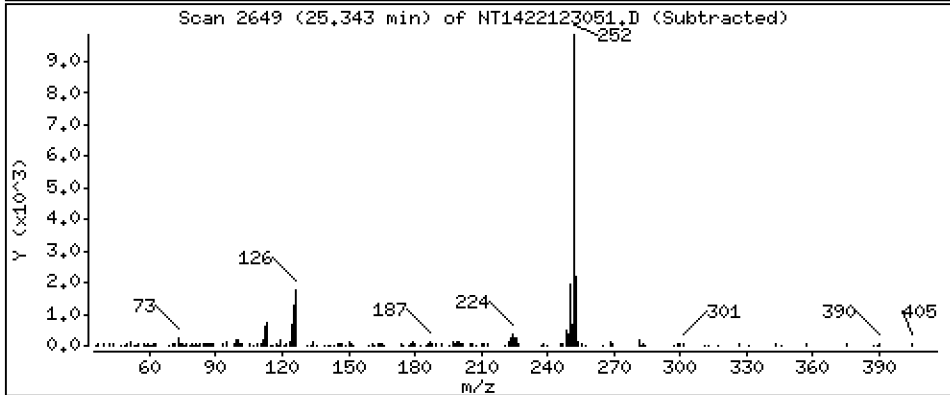
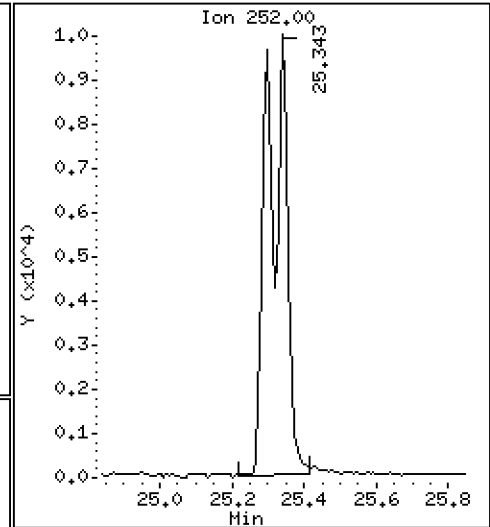
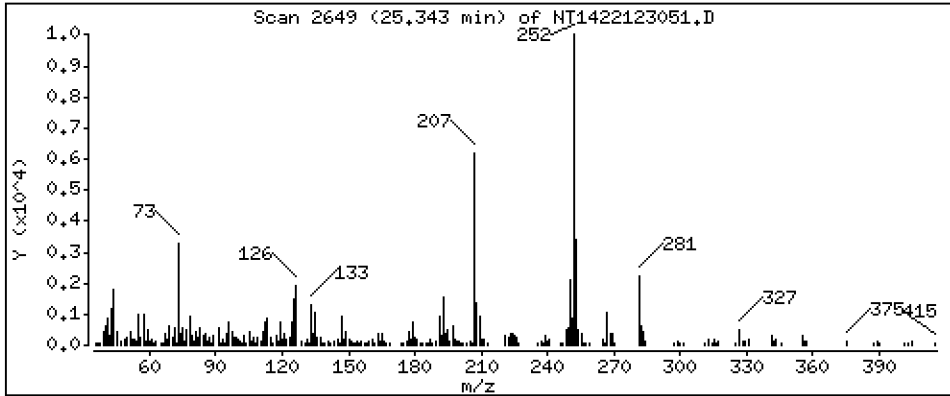
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5087 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

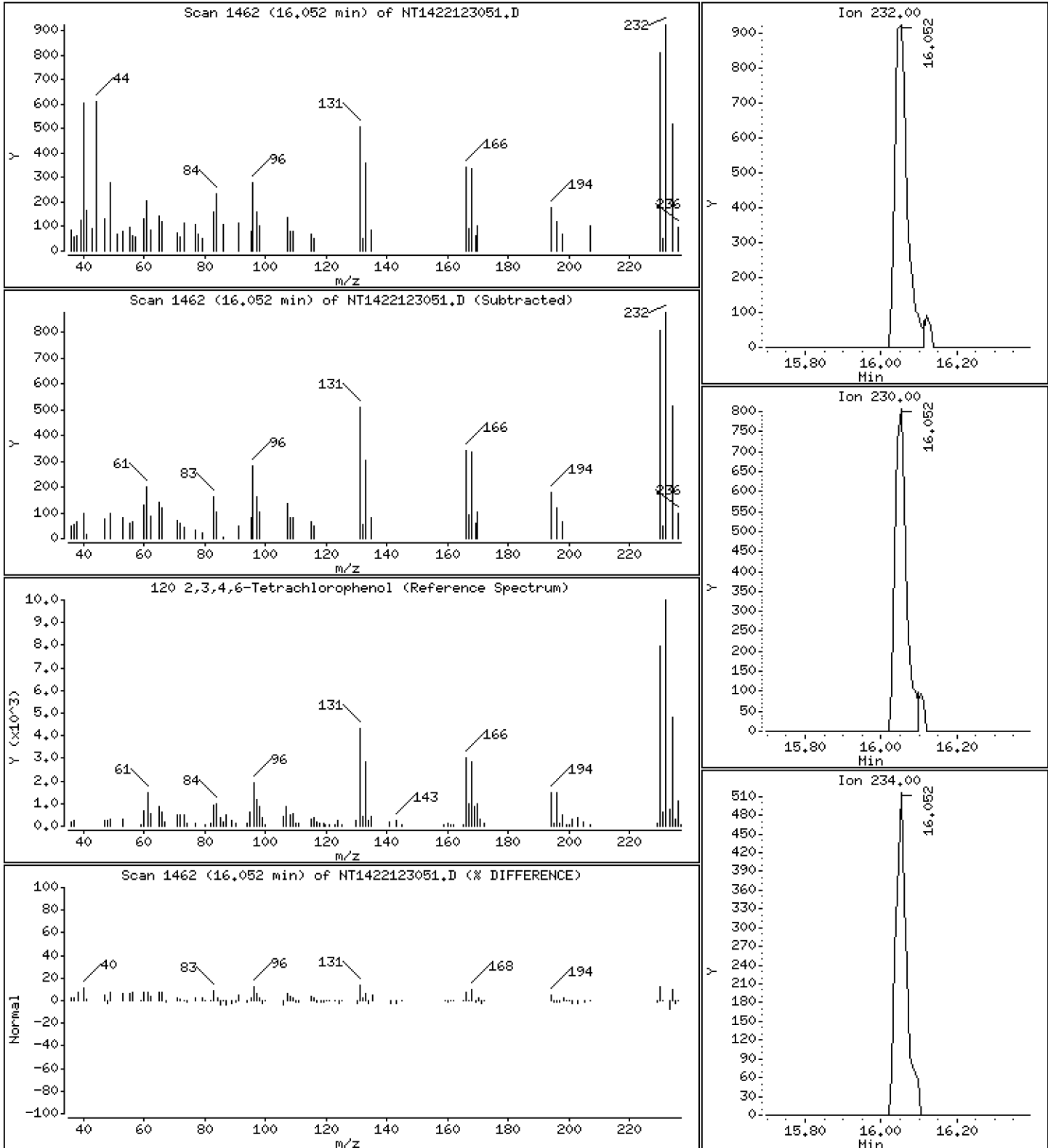
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1326 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D
 Lab Smp Id: SKL0355-LCV1
 Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-LCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.927	(0.756)	12842	0.34438	0.3444
\$ 2 Phenol-d5	99		8.519	8.519	(0.929)	14155	0.30716	0.3072
3 Phenol	94		8.542	8.542	(0.932)	12014	0.22943	0.2294
\$ 5 2-Chlorophenol-d4	132		8.804	8.804	(0.960)	12856	0.33217	0.3322
4 Bis(2-Chloroethyl)ether	93		8.704	8.704	(0.949)	8623	0.23905	0.2390
6 2-Chlorophenol	128		8.835	8.835	(0.964)	10012	0.23554	0.2355
7 1,3-Dichlorobenzene	146		9.106	9.106	(0.993)	11073	0.24567	0.2457
* 8 1,4-Dichlorobenzene-d4	152		9.168	9.168	(1.000)	116397	4.00000	
9 1,4-Dichlorobenzene	146		9.199	9.199	(1.003)	10619	0.24869	0.2487
\$ 10 1,2-Dichlorobenzene-d4	152		9.533	9.533	(1.040)	6376	0.24103	0.2410
12 1,2-Dichlorobenzene	146		9.556	9.564	(1.042)	10186	0.24324	0.2432
11 Benzyl alcohol	108		9.440	9.440	(1.030)	3783	0.16228	0.1623
14 2,2'-oxybis(1-Chloropropane)	121		9.742	9.743	(1.063)	2715	0.22362	0.2236 (M)
13 2-Methylphenol	108		9.665	9.665	(1.054)	8908	0.23411	0.2341
17 Hexachloroethane	117		10.162	10.162	(1.108)	2756	0.17549	0.1755
16 N-Nitroso-di-n-propylamine	70		9.999	9.999	(1.091)	5117	0.22076	0.2208
15 4-Methylphenol	108		9.937	9.937	(1.084)	8513	0.21208	0.2121
\$ 18 Nitrobenzene-d5	82		10.270	10.270	(0.880)	7699	0.21407	0.2141
19 Nitrobenzene	77		10.301	10.301	(0.882)	8051	0.22540	0.2254
20 Isophorone	82		10.759	10.759	(0.922)	8947	0.19654	0.1965
21 2-Nitrophenol	139		10.938	10.938	(0.937)	4423	0.20275	0.2028
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	16985	0.45562	0.4556
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	8349	0.23576	0.2358
24 Benzoic acid	105		11.139	11.201	(0.954)	3966	0.17478	0.1748 (M)
25 2,4-Dichlorophenol	162		11.403	11.403	(0.977)	12985	0.41323	0.4132
26 1,2,4-Trichlorobenzene	180		11.588	11.589	(0.993)	8229	0.24219	0.2422
* 27 Naphthalene-d8	136		11.673	11.681	(1.000)	425902	4.00000	
28 Naphthalene	128		11.720	11.720	(1.004)	24917	0.23773	0.2377
29 4-Chloroaniline	127		11.843	11.843	(1.015)	17541	0.40581	0.4058
30 Hexachlorobutadiene	225		12.083	12.083	(1.035)	3748	0.22233	0.2223
31 4-Chloro-3-methylphenol	107		12.818	12.810	(1.098)	11891	0.40100	0.4010
32 2-Methylnaphthalene	142		13.120	13.128	(1.124)	17149	0.22305	0.2231
33 Hexachlorocyclopentadiene	237		13.600	13.592	(0.888)	352	0.02150	0.02150

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.747	(0.898)	6773	0.37464	0.3746	
35 2,4,5-Trichlorophenol	196		13.839	13.824	(0.904)	9005	0.43158	0.4316 (M)	
§ 36 2-Fluorobiphenyl	172		13.909	13.909	(0.909)	16254	0.22319	0.2232	
37 2-Chloronaphthalene	162		14.126	14.126	(0.923)	14693	0.23716	0.2372	
38 2-Nitroaniline	65		14.381	14.373	(0.939)	6470	0.39723	0.3972	
39 Dimethylphthalate	163		14.807	14.807	(0.967)	13629	0.22312	0.2231	
40 Acenaphthylene	152		15.000	15.000	(0.980)	21309	0.22558	0.2256	
41 2,6-Dinitrotoluene	165		14.946	14.946	(0.976)	4846	0.35154	0.3515	
* 42 Acenaphthene-d10	164		15.310	15.318	(1.000)	216598	4.00000		
43 3-Nitroaniline	138		15.232	15.233	(0.995)	5647	0.33704	0.3370	
44 Acenaphthene	153		15.379	15.379	(1.005)	13777	0.23514	0.2351	
45 2,4-Dinitrophenol	184		15.472	15.441	(1.011)	62	0.00530	0.005296 (M)	
46 Dibenzofuran	168		15.712	15.712	(1.026)	21128	0.24047	0.2405	
47 4-Nitrophenol	109		15.634	15.549	(1.021)	1904	0.23747	0.2375 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.758	(1.029)	5711	0.30195	0.3020	
50 Diethylphthalate	149		16.268	16.268	(1.063)	18907	0.22772	0.2277	
49 Fluorene	166		16.423	16.423	(1.073)	21251	0.22736	0.2274	
51 4-Chlorophenyl-phenylether	204		16.407	16.415	(1.072)	9783	0.21379	0.2138	
52 4-Nitroaniline	138		16.523	16.508	(1.079)	6307	0.31284	0.3128	
53 4,6-Dinitro-2-methylphenol	198		16.600	16.608	(0.904)	2946	0.20197	0.2020	
54 N-Nitrosodiphenylamine	169		16.662	16.662	(0.907)	14446	0.24221	0.2422	
§ 55 2,4,6-Tribromophenol	330		16.963	16.963	(1.108)	2148	0.21169	0.2117 (M)	
56 4-Bromophenyl-phenylether	248		17.418	17.418	(0.949)	5136	0.22742	0.2274	
57 Hexachlorobenzene	284		17.742	17.742	(0.966)	5677	0.22906	0.2291	
58 Pentachlorophenol	266		18.114	18.098	(0.987)	823	0.07669	0.07669 (M)	
* 59 Phenanthrene-d10	188		18.361	18.369	(1.000)	347572	4.00000		
60 Phenanthrene	178		18.408	18.415	(1.003)	21884	0.24149	0.2415	
61 Anthracene	178		18.508	18.508	(1.008)	18882	0.21826	0.2183	
62 Carbazole	167		18.841	18.833	(1.026)	18183	0.21741	0.2174	
63 Di-n-butylphthalate	149		19.622	19.622	(1.069)	17991	0.19057	0.1906	
64 Fluoranthene	202		20.798	20.798	(0.889)	21465	0.23077	0.2308	
65 Pyrene	202		21.224	21.224	(0.907)	21631	0.22118	0.2212	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.918)	15087	0.21757	0.2176	
67 Butylbenzylphthalate	149		22.408	22.416	(0.957)	7672	0.20800	0.2080	
68 Benzo(a)anthracene	228		23.376	23.376	(0.999)	21137	0.24154	0.2415	
* 69 Chrysene-d12	240		23.407	23.407	(1.000)	288877	4.00000		
70 3,3'-Dichlorobenzidine	252		23.330	23.330	(0.997)	18651	0.69622	0.6962	
71 Chrysene	228		23.446	23.454	(1.002)	19952	0.24137	0.2414	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.438	(0.959)	10512	0.21854	0.2185	
* 134 Di-n-octylphthalate-d4	153		24.429	24.429	(1.000)	433122	4.00000		
73 Di-n-octylphthalate	149		24.437	24.437	(1.000)	25154	0.24194	0.2419	
74 Benzo(b)fluoranthene	252		25.296	25.304	(0.969)	19147	0.24594	0.2459	
75 Benzo(k)fluoranthene	252		25.343	25.343	(0.971)	20195	0.25486	0.2549	
76 Benzo(a)pyrene	252		25.978	25.978	(0.996)	15635	0.24158	0.2416	
* 77 Perylene-d12	264		26.094	26.094	(1.000)	247727	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.861	28.854	(1.106)	10497	0.14268	0.1427	
79 Dibenzo(a,h)anthracene	278		28.869	28.861	(1.106)	9359	0.14970	0.1497	
80 Benzo(g,h,i)perylene	276		29.685	29.669	(1.138)	7577	0.12294	0.1229	
90 N-Nitrosodimethylamine	74		4.726	4.726	(0.516)	12751	0.49649	0.4965	
91 Aniline	93		8.611	8.619	(0.939)	24033	0.47136	0.4714	
93 Benzidine	184		21.030	21.015	(0.898)	12279	0.34708	0.3471	
103 Pyridine	79		4.780	4.757	(0.521)	19811	0.24276	0.2428	
105 1-methylnaphthalene	142		13.344	13.352	(1.143)	17117	0.23171	0.2317	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.739	16.739	(1.093)	18676	0.23219	0.2322	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123051.D Calibration Time: 13:17
 Lab Smp Id: SKL0355-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m, 31-DEC-2022 14:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
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RRT check based on Ccal File: NT1422123049.D

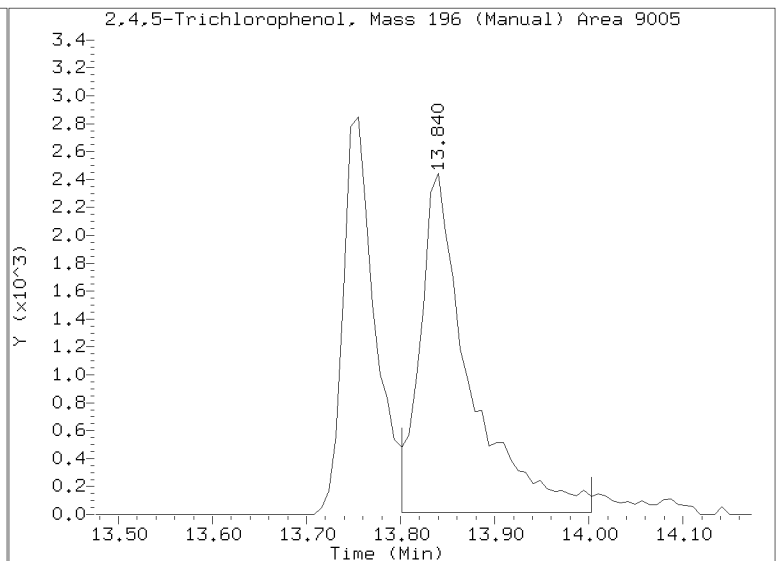
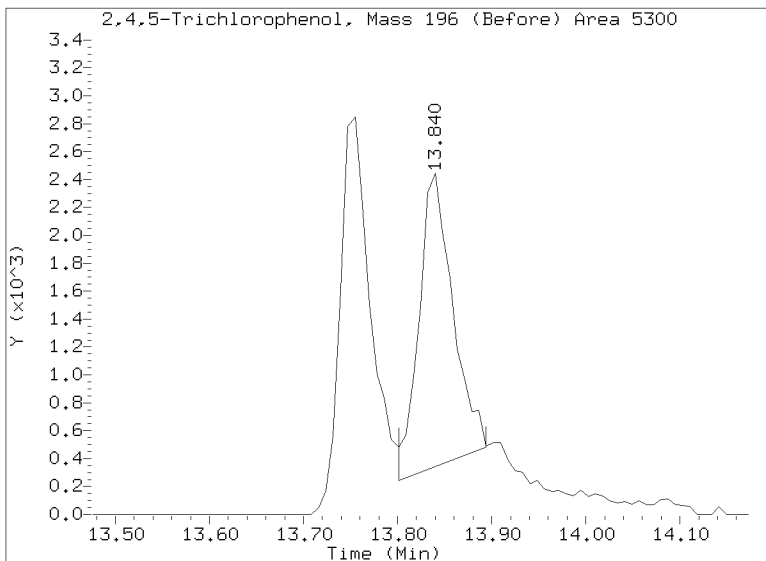
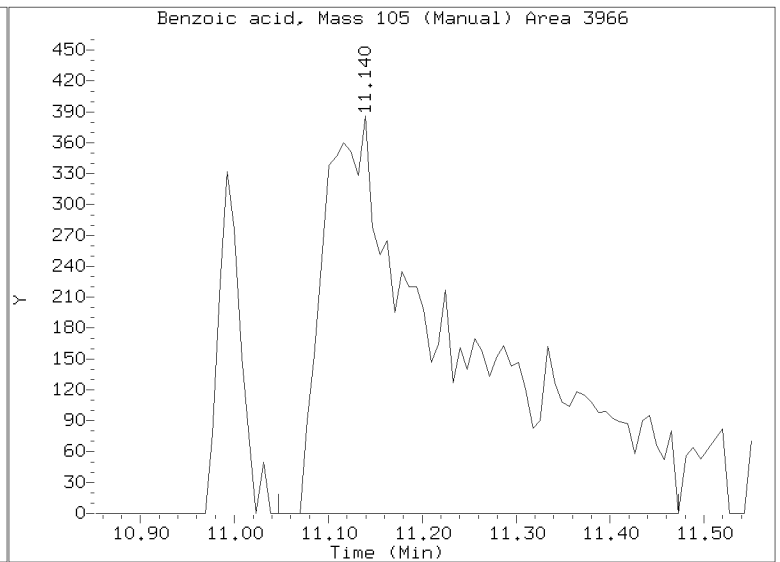
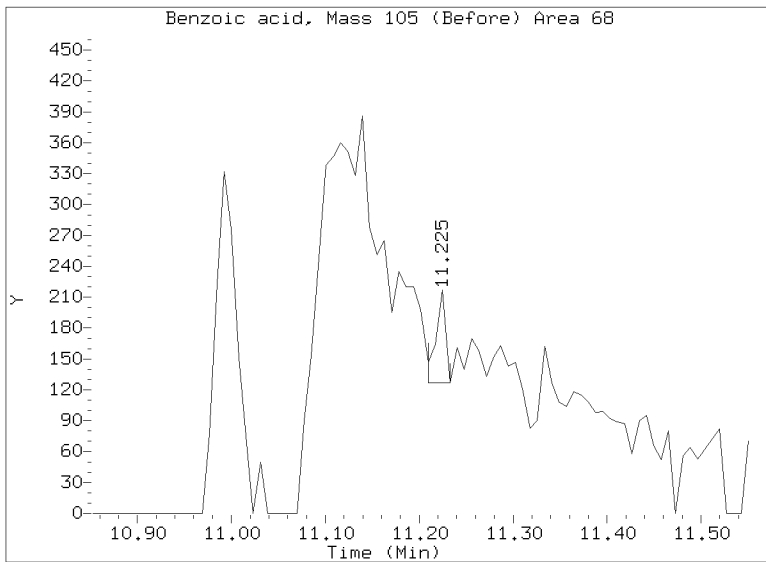
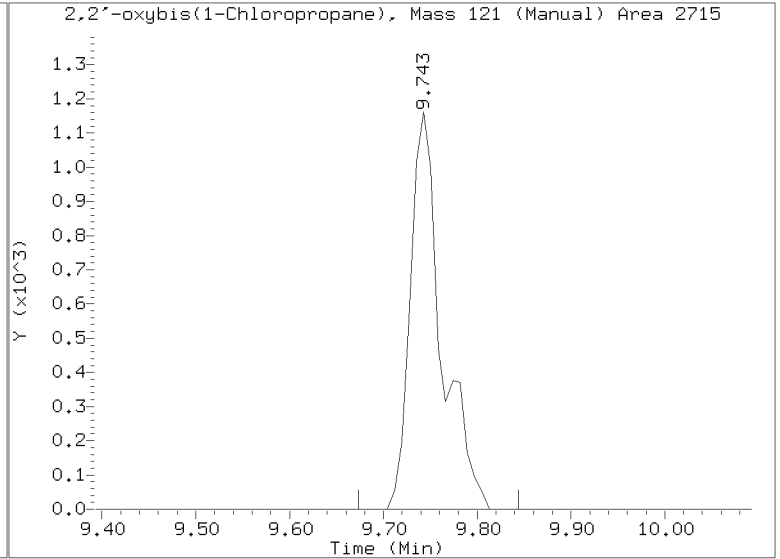
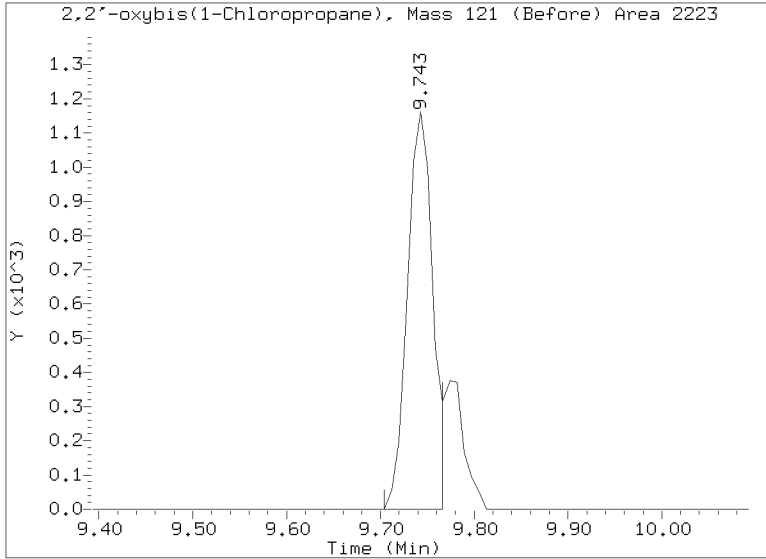
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

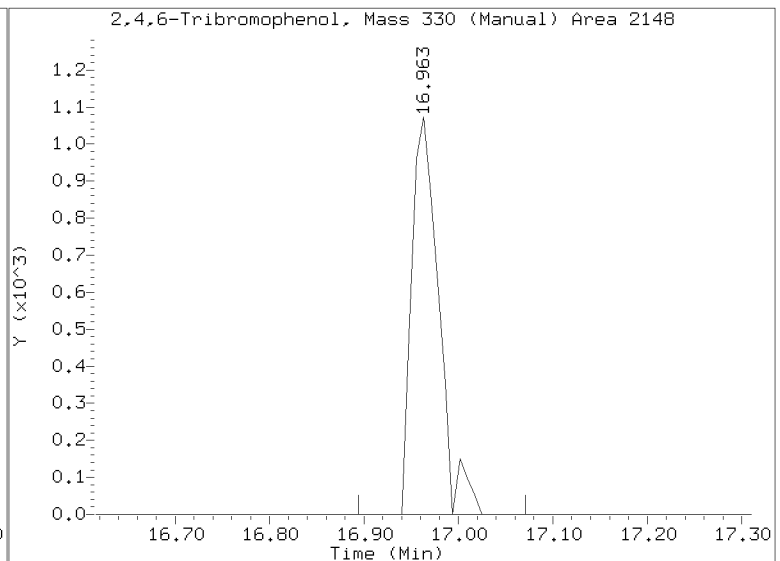
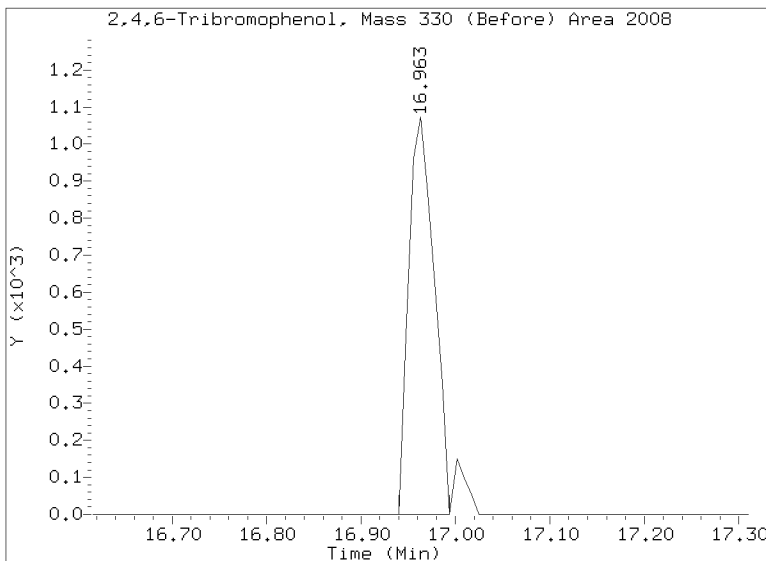
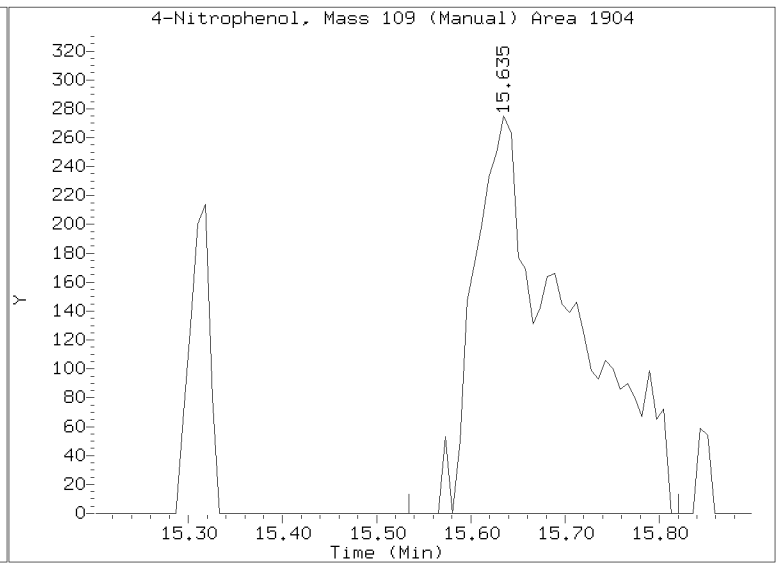
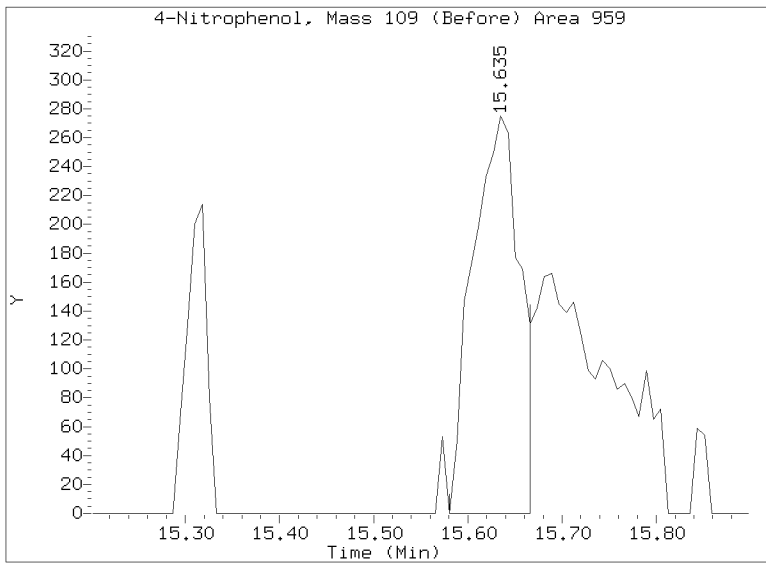
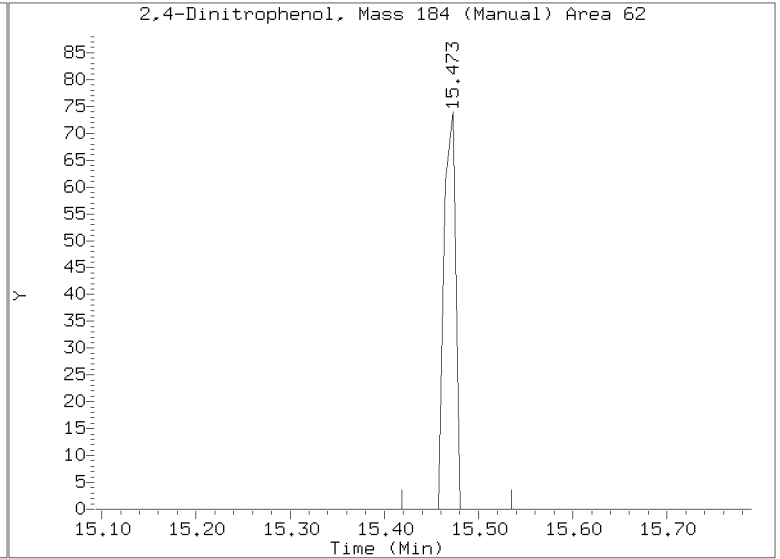
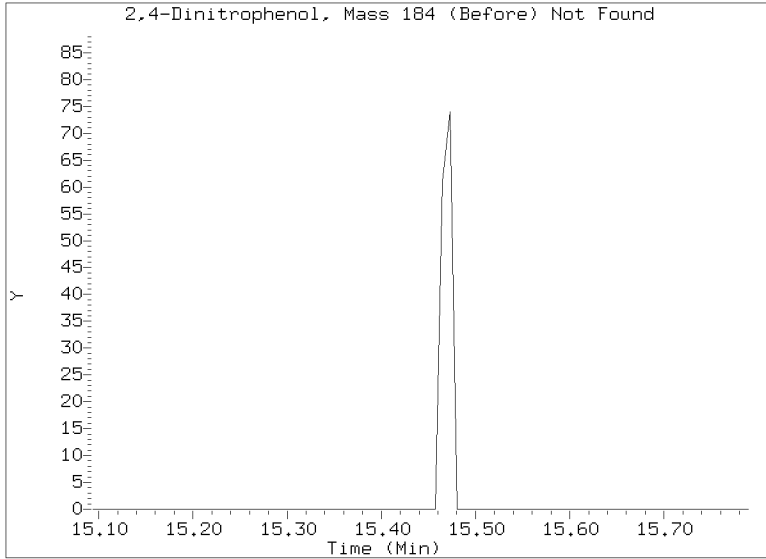
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

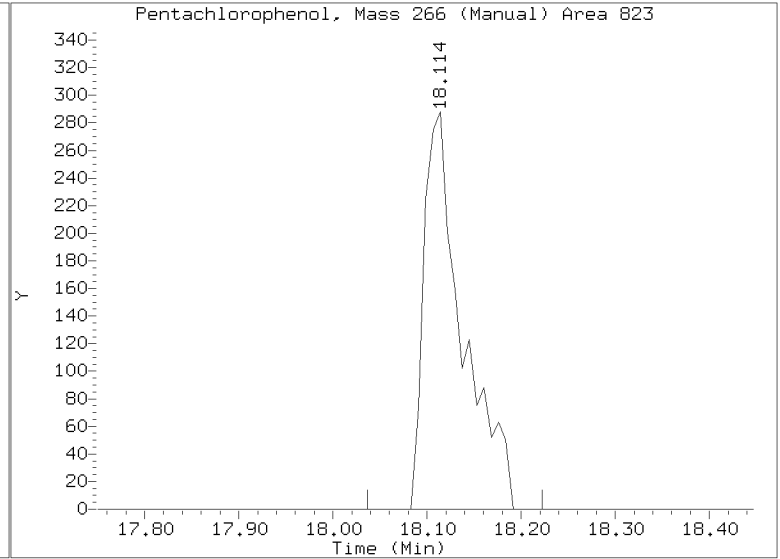
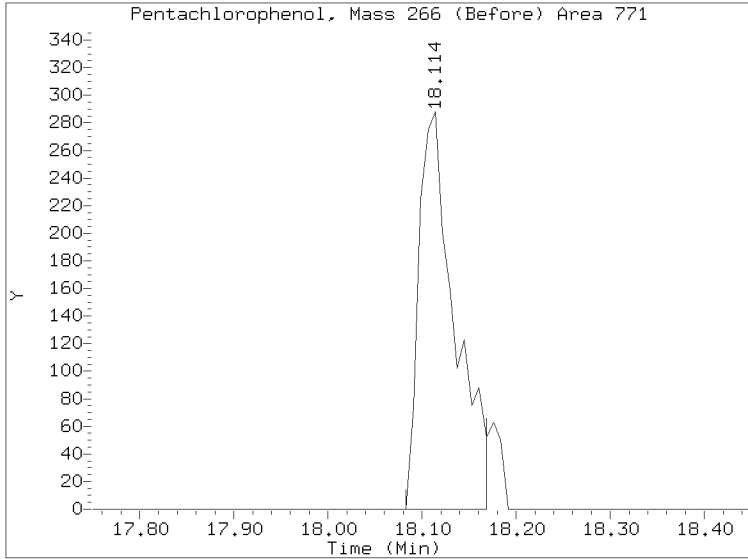
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV2

Sequence: SKL0355

Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-3.7	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.0	50.00
2-Chlorophenol	0.50000	0.5	1.1	50.00
1,3-Dichlorobenzene	0.50000	0.5	-1.0	50.00
1,4-Dichlorobenzene	0.50000	0.5	-1.5	50.00
1,2-Dichlorobenzene	0.50000	0.5	-3.2	50.00
Benzyl Alcohol	0.50000	0.4	-24.2	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-7.7	50.00
2-Methylphenol	0.50000	0.5	-3.3	50.00
Hexachloroethane	0.50000	0.4	-25.4	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	-6.9	50.00
4-Methylphenol	0.50000	0.5	-5.1	50.00
Nitrobenzene	0.50000	0.5	-7.2	50.00
Isophorone	0.50000	0.4	-13.7	50.00
2-Nitrophenol	0.50000	0.5	-8.8	50.00
2,4-Dimethylphenol	1.0000	1.0	-1.2	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-3.2	50.00
2,4-Dichlorophenol	1.0000	1.0	-0.8	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-3.7	50.00
Naphthalene	0.50000	0.5	-3.1	50.00
Benzoic acid	2.0000	0.3	-83.5	50.00
4-Chloroaniline	1.0000	0.9	-13.0	50.00
Hexachlorobutadiene	0.50000	0.5	-5.8	50.00
4-Chloro-3-Methylphenol	1.0000	1.0	-4.8	50.00
2-Methylnaphthalene	0.50000	0.5	-6.5	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-89.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-11.0	50.00
2,4,5-Trichlorophenol	1.0000	0.9	-10.1	50.00
2-Chloronaphthalene	0.50000	0.5	-2.4	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV2

Sequence: SKL0355

Standard ID: K011106

2-Nitroaniline	1.0000	0.9	-8.0	50.00
Acenaphthylene	0.50000	0.5	6.4	50.00
Dimethylphthalate	0.50000	0.5	-6.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-14.9	50.00
Acenaphthene	0.50000	0.5	-0.7	50.00
3-Nitroaniline	1.0000	0.8	-20.0	50.00
2,4-Dinitrophenol	2.0000	0.1	-92.8	50.00
Dibenzofuran	0.50000	0.5	-1.5	50.00
4-Nitrophenol	1.0000	0.6	-35.2	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.1	50.00
Fluorene	0.50000	0.5	-3.3	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	-8.3	50.00
Diethyl phthalate	0.50000	0.5	7.5	50.00
4-Nitroaniline	1.0000	0.8	-20.7	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.8	-62.2	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-1.9	50.00
Hexachlorobenzene	0.50000	0.5	-2.0	50.00
Pentachlorophenol	1.0000	0.2	-77.5	50.00
Phenanthrene	0.50000	0.5	-2.3	50.00
Anthracene	0.50000	0.5	-6.3	50.00
Carbazole	0.50000	0.5	-7.8	50.00
Di-n-Butylphthalate	0.50000	0.4	-14.3	50.00
Fluoranthene	0.50000	0.5	-7.1	50.00
Pyrene	0.50000	0.5	-6.4	50.00
Butylbenzylphthalate	0.50000	0.4	-11.3	50.00
Benzo(a)anthracene	0.50000	0.5	-3.0	50.00
3,3'-Dichlorobenzidine	1.5000	1.5	-1.4	50.00
Chrysene	0.50000	0.5	-2.0	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	-5.9	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.4	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV2

Sequence: SKL0355

Standard ID: K011106

Benzofluoranthenes, Total	1.0000	1.0	2.2	50.00
Benzo(a)pyrene	0.50000	0.5	0.3	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-35.3	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-34.1	50.00
Benzo(g,h,i)perylene	0.50000	0.3	-46.5	50.00
1-Methylnaphthalene	0.50000	0.5	-4.7	50.00
2-Fluorophenol	0.75000	0.711	-5.2	50.00
Phenol-d5	0.75000	0.658	-12.3	50.00
2-Chlorophenol-d4	0.75000	0.686	-8.5	50.00
1,2-Dichlorobenzene-d4	0.50000	0.471	-5.9	50.00
Nitrobenzene-d5	0.50000	0.460	-8.0	50.00
2-Fluorobiphenyl	0.50000	0.474	-5.1	50.00
2,4,6-Tribromophenol	0.75000	0.536	-28.6	50.00
p-Terphenyl-d14	0.50000	0.454	-9.2	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230B.B\NT1422123052.D

Date: 31-DEC-2022 15:05

Client ID:

Sample Info: SKL0356-LCW2

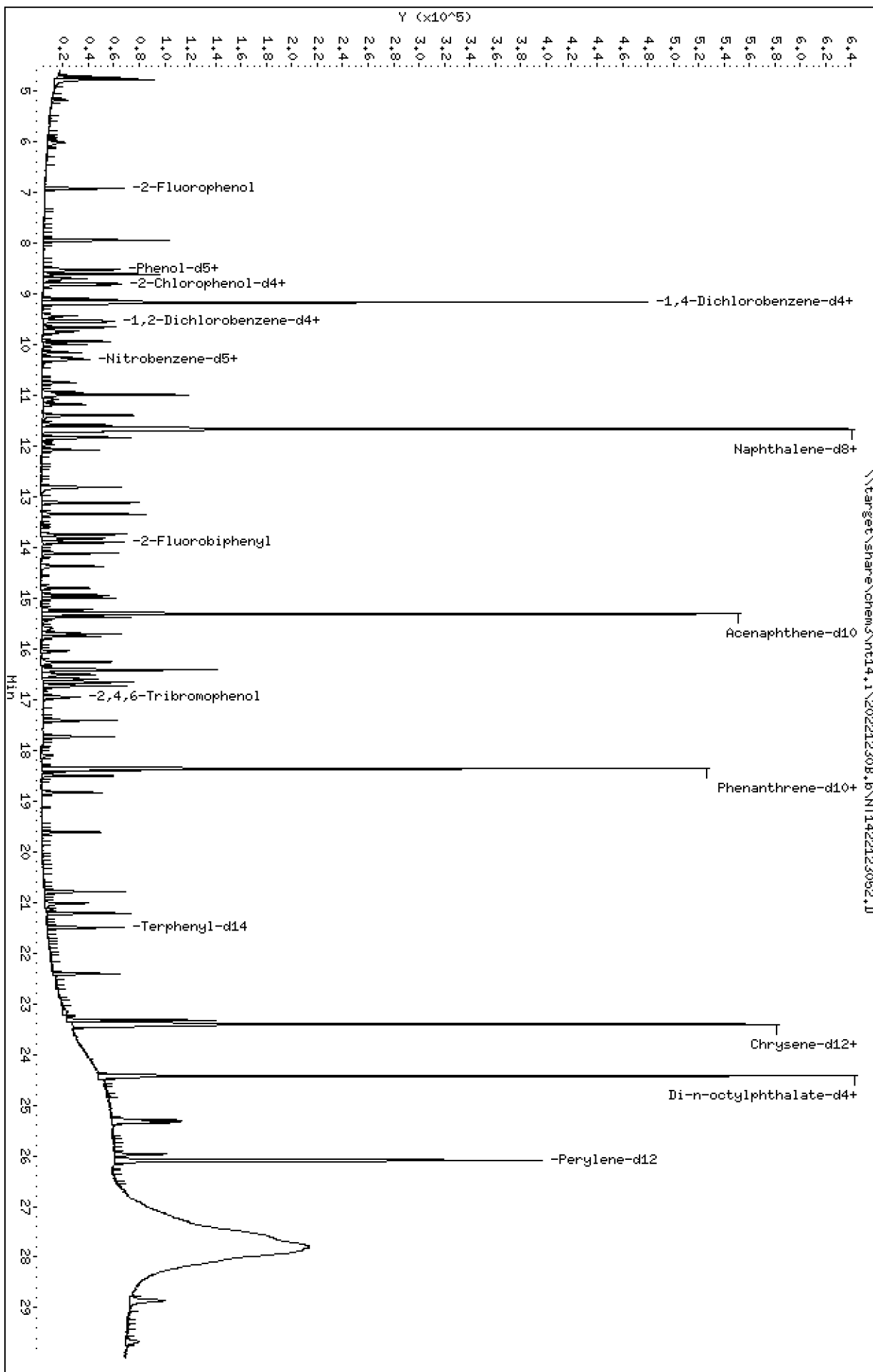
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

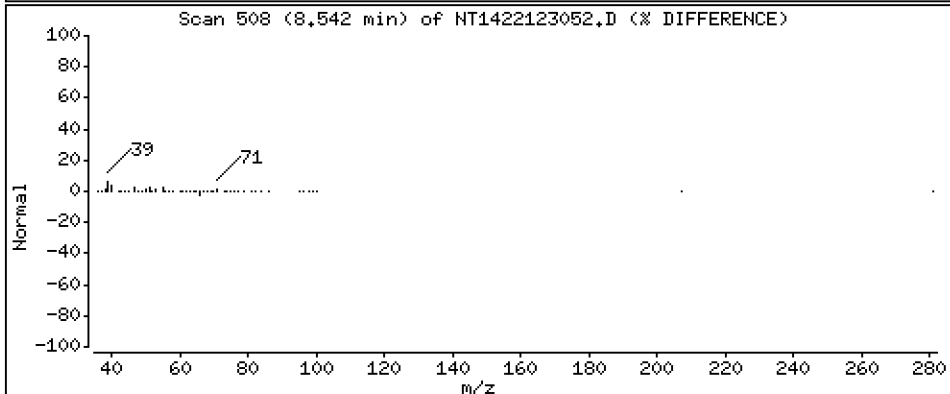
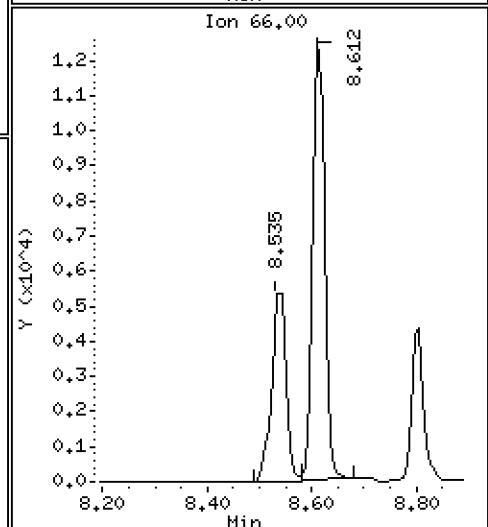
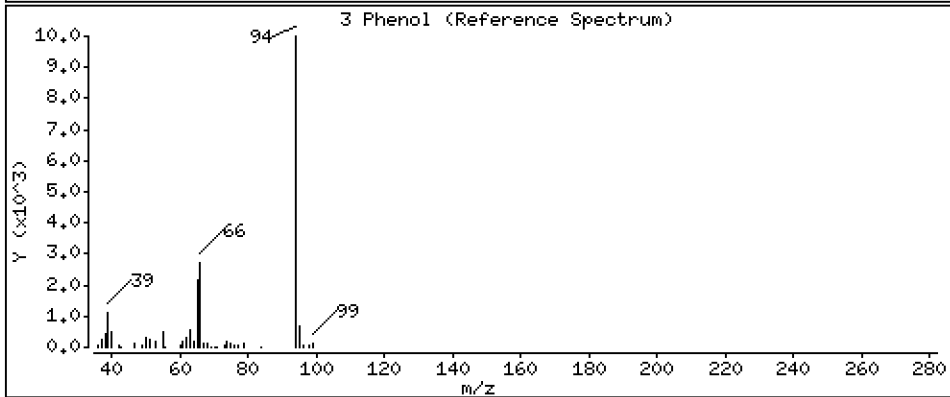
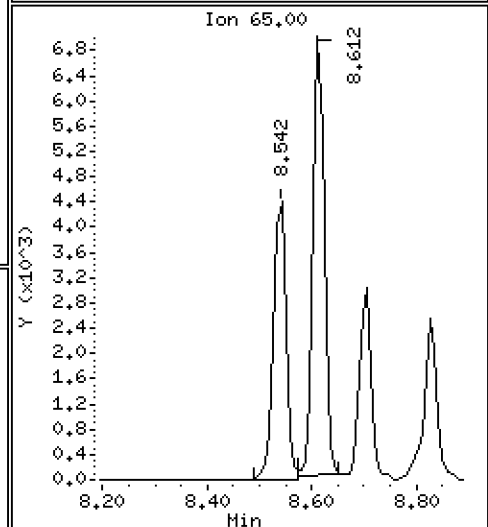
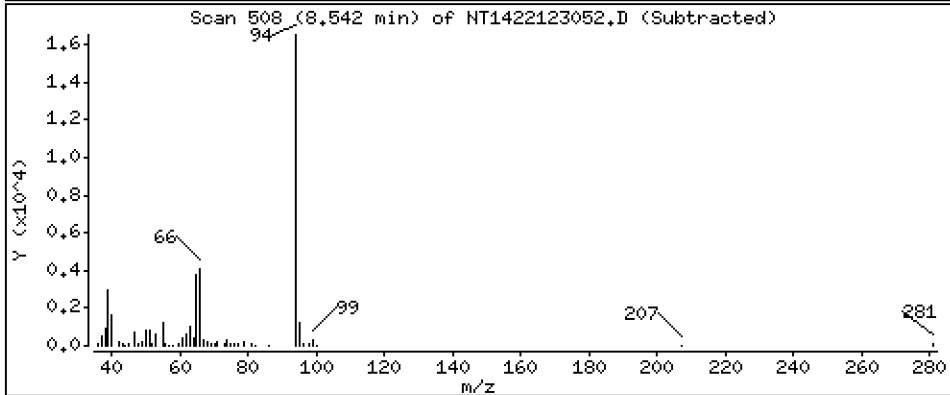
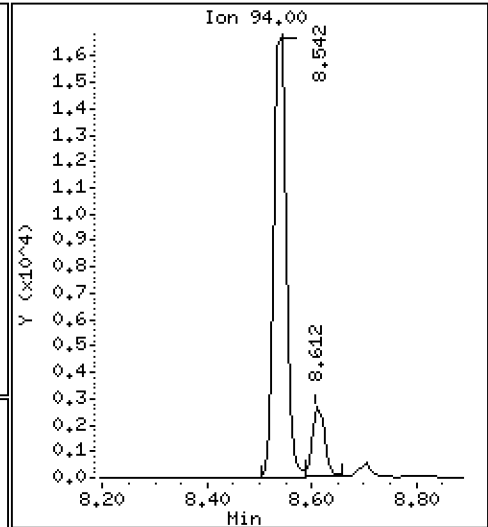
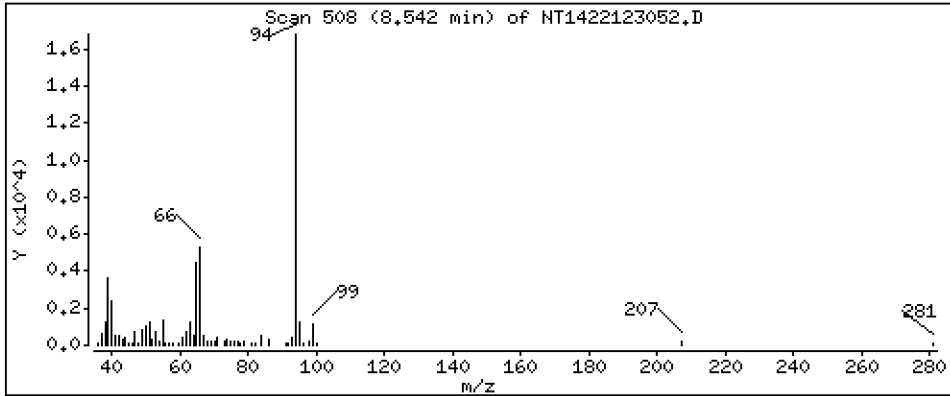
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4814 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

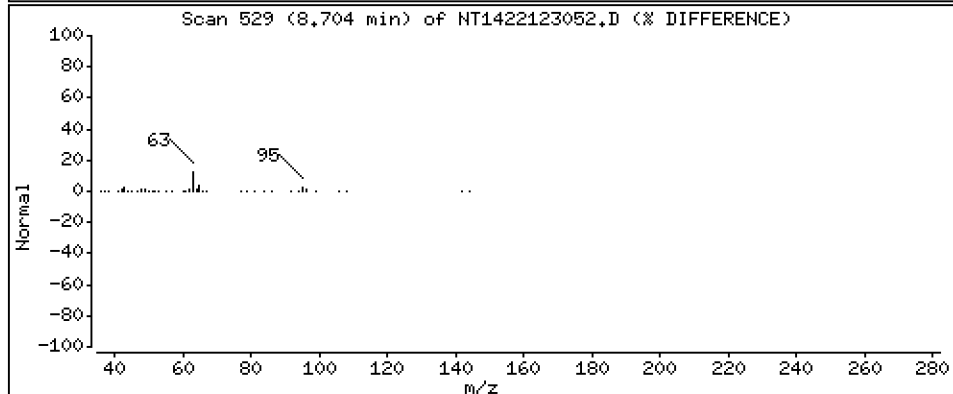
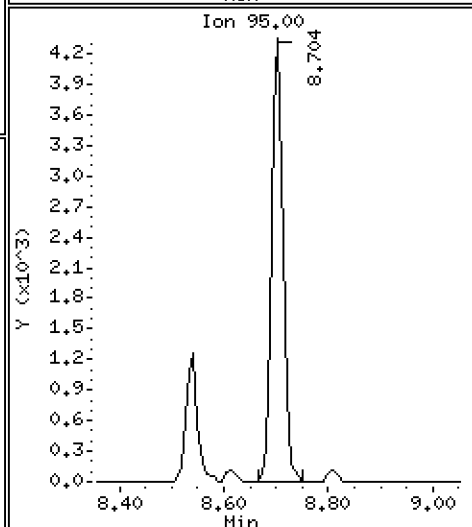
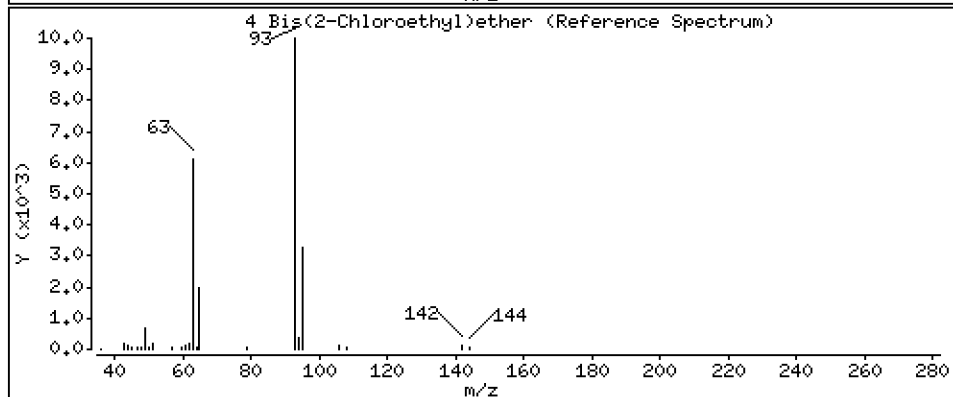
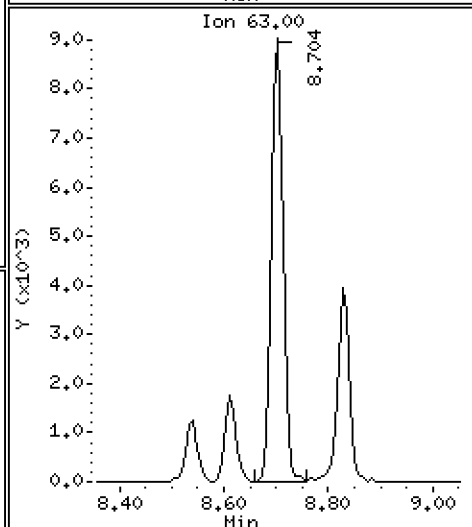
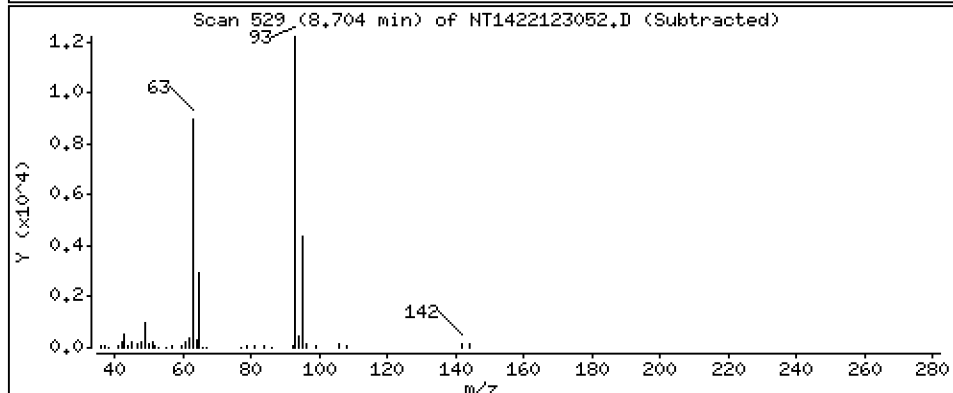
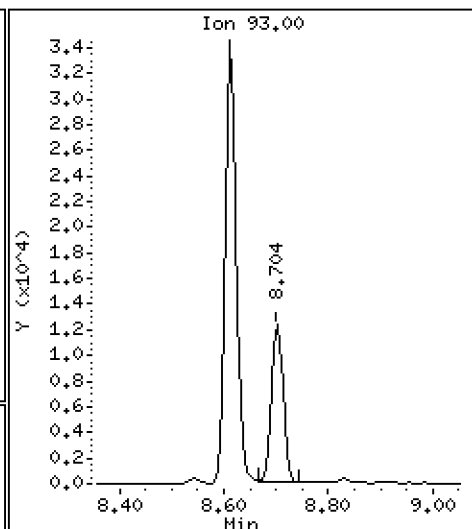
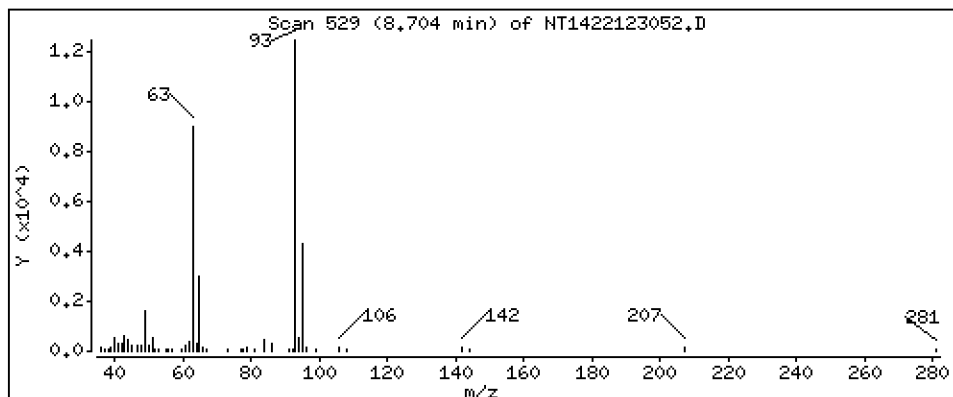
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,4852 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

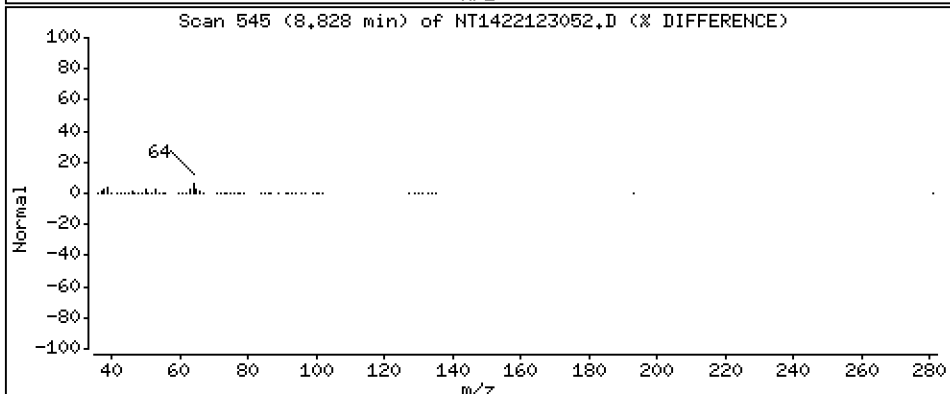
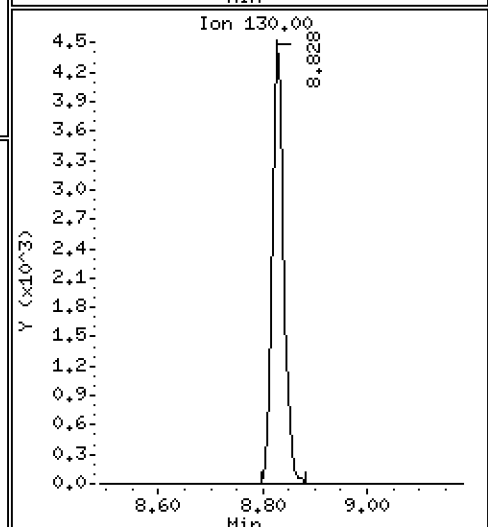
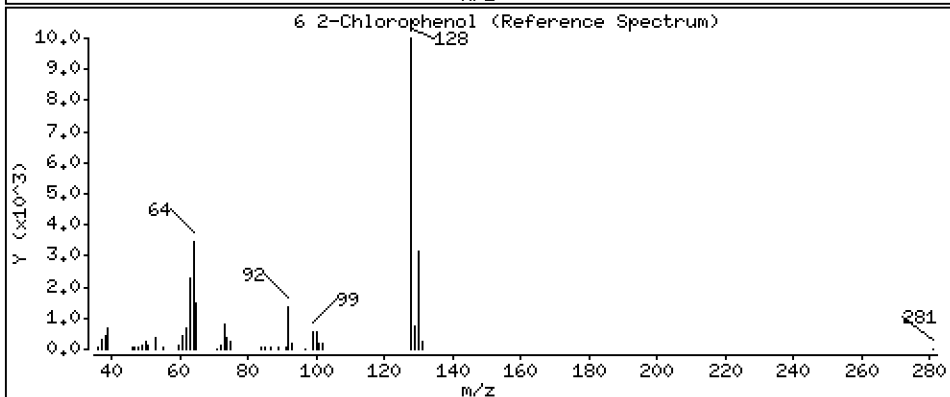
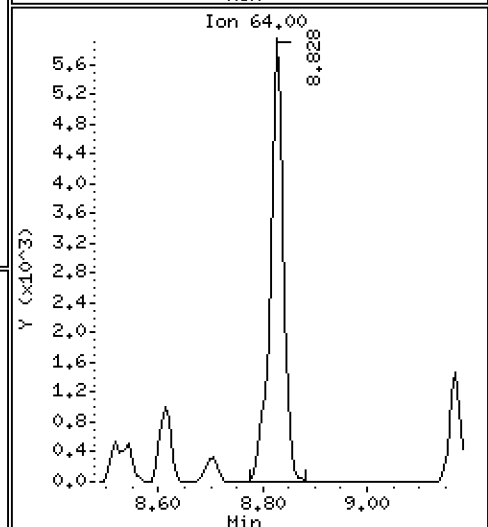
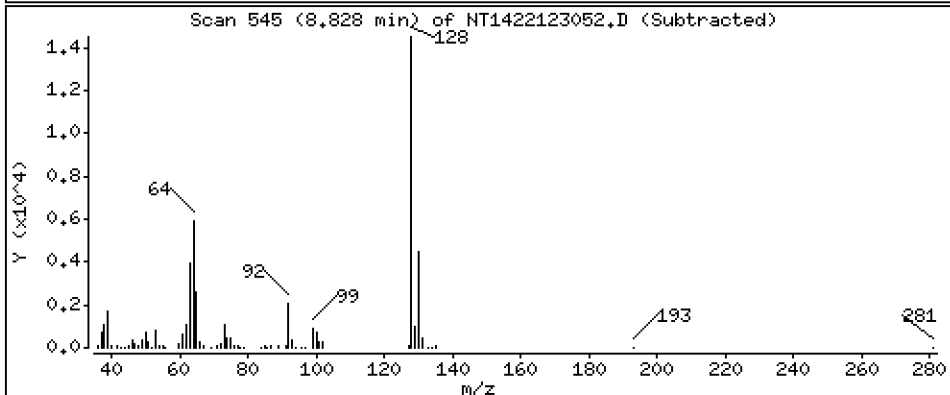
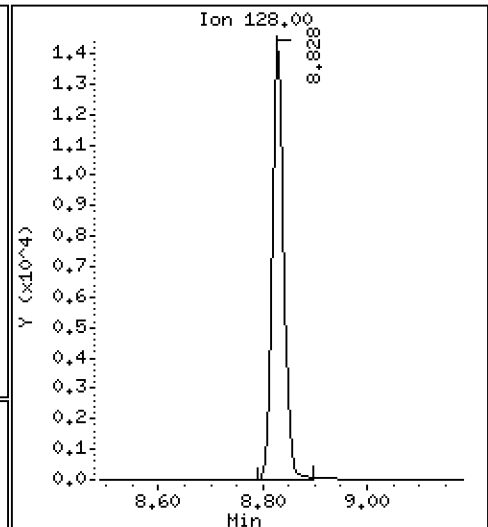
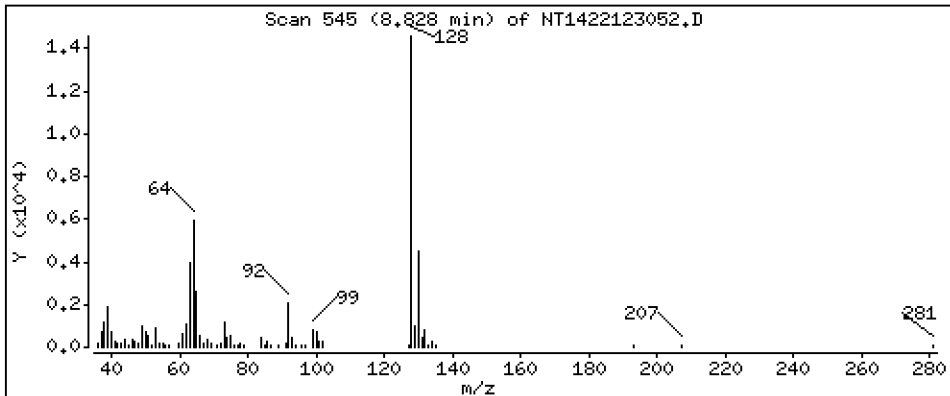
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5057 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

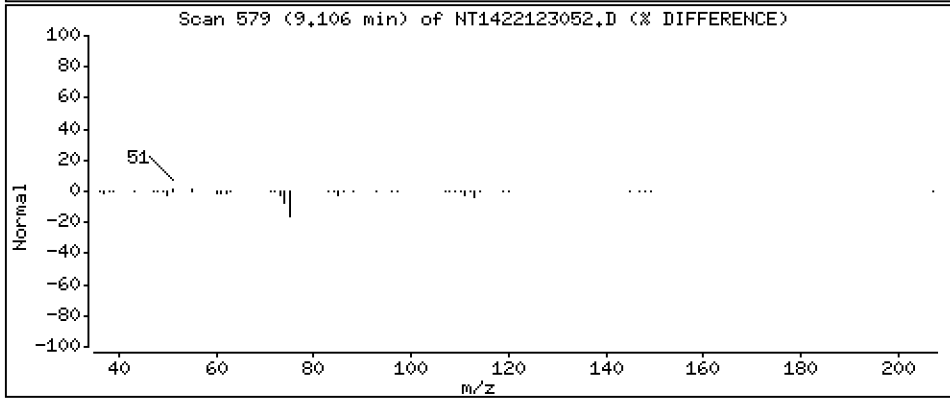
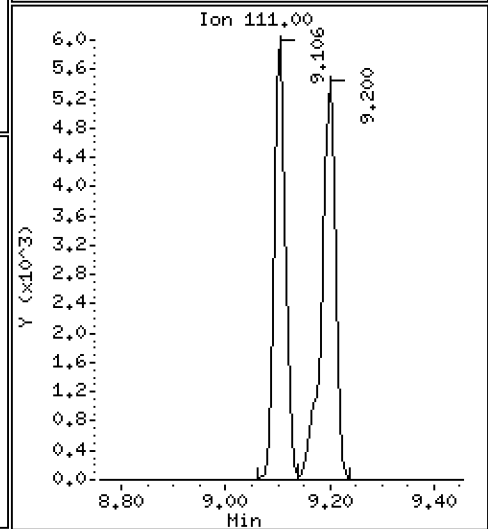
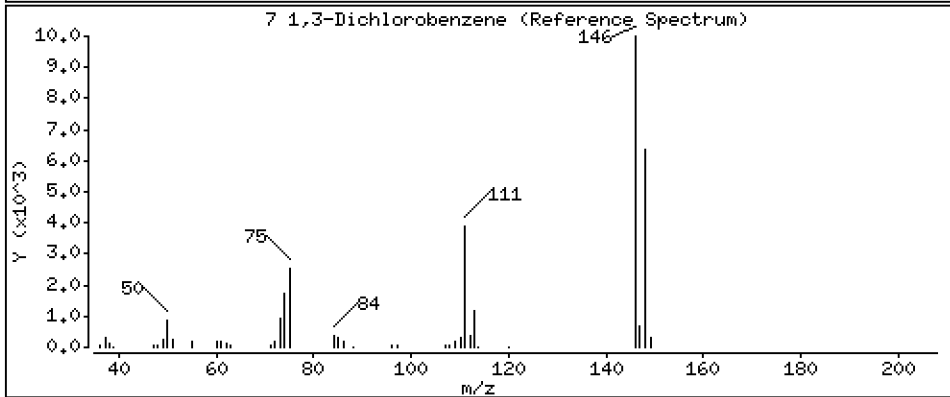
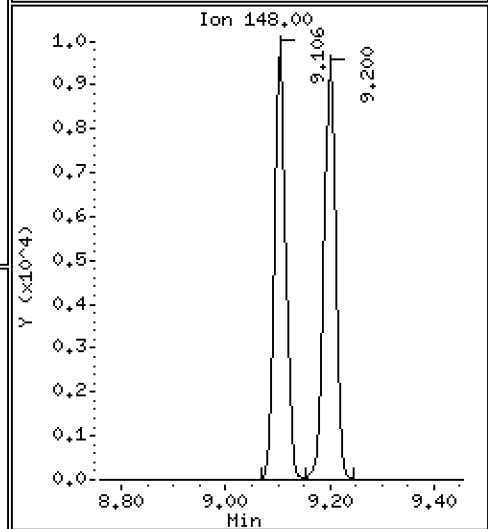
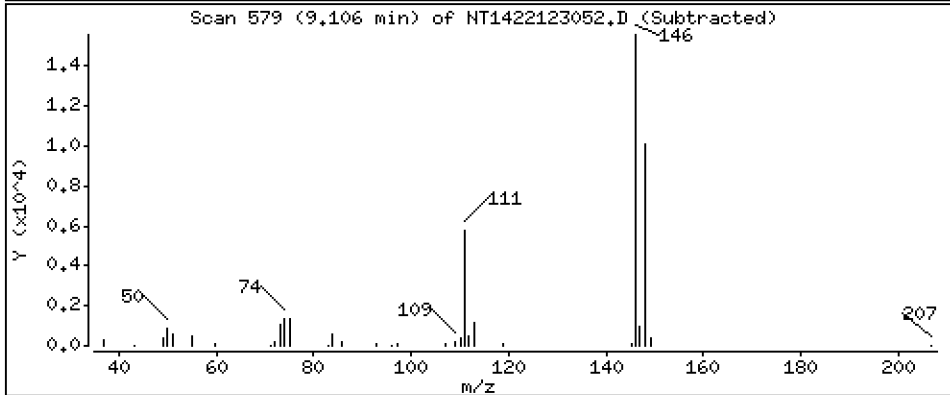
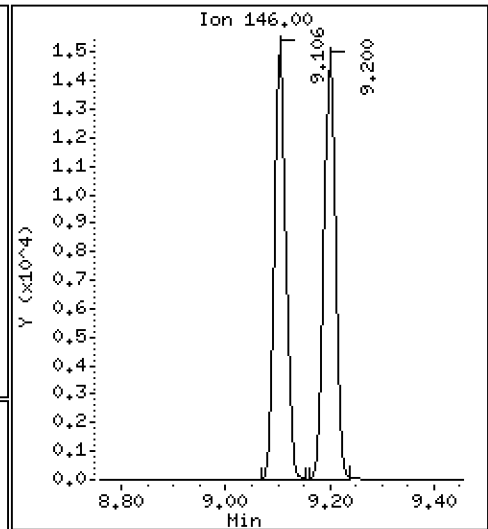
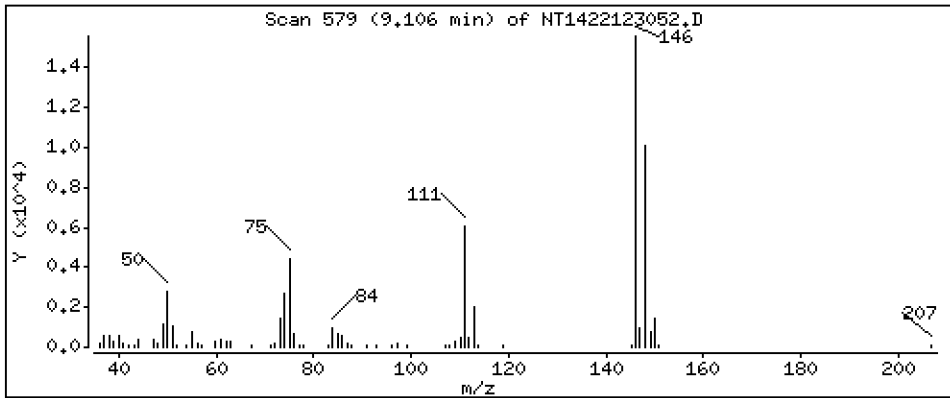
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.4948 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

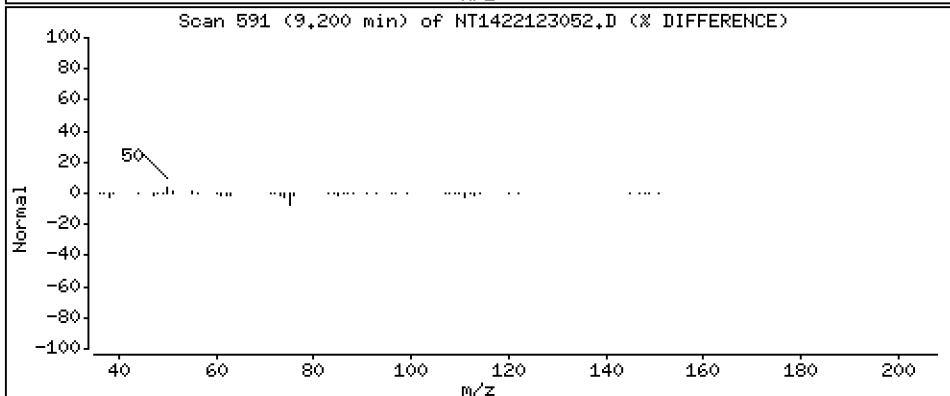
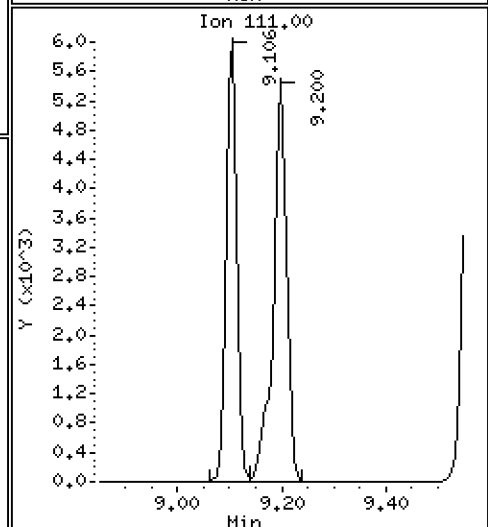
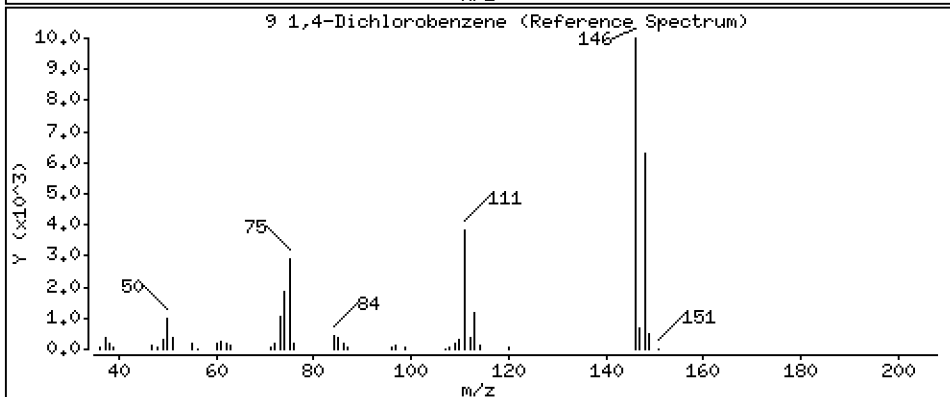
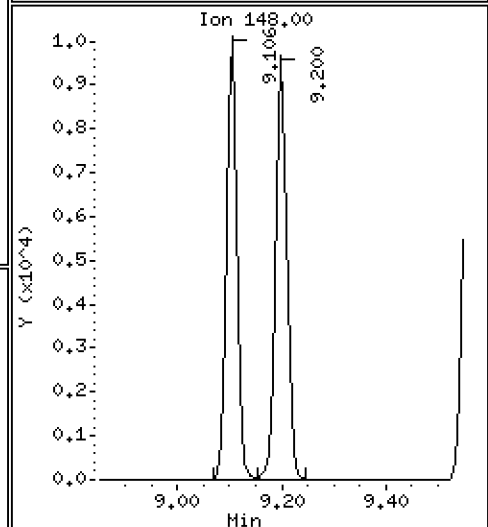
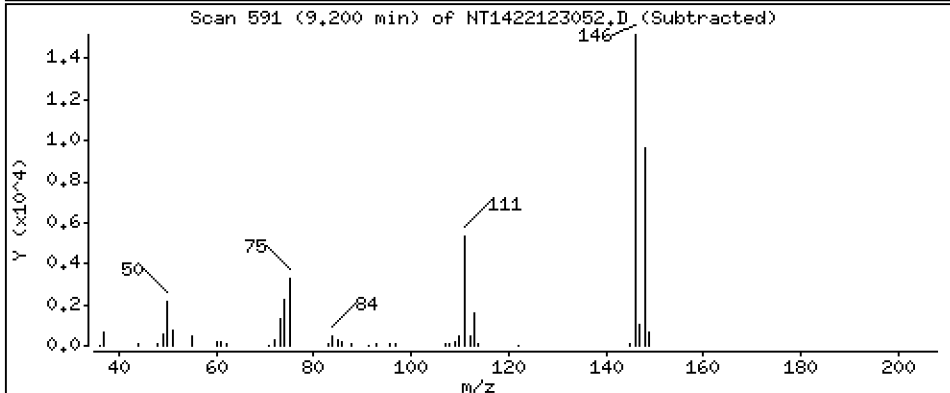
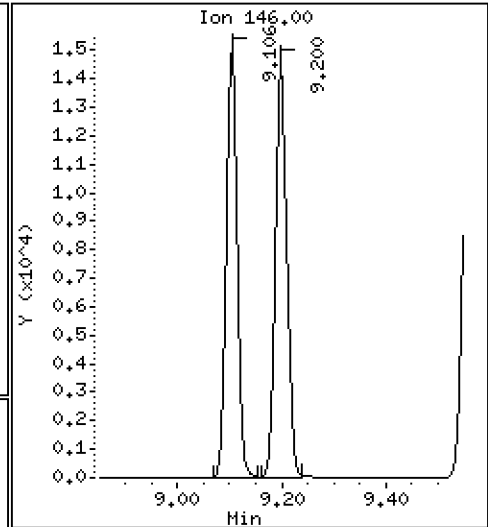
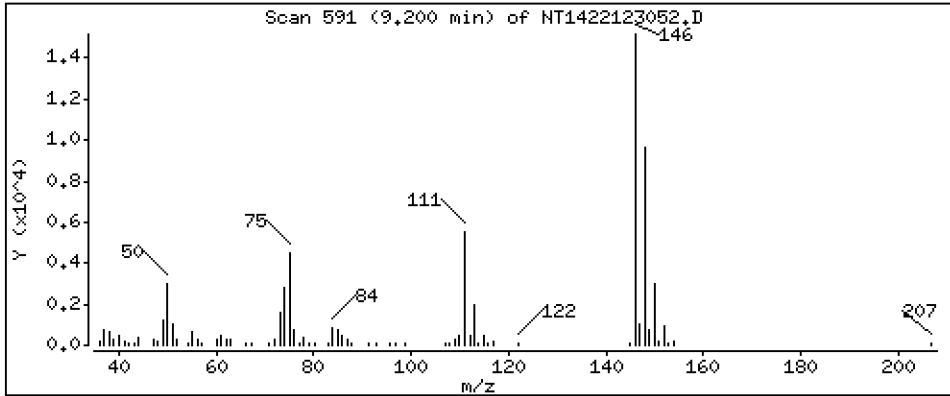
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,4924 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

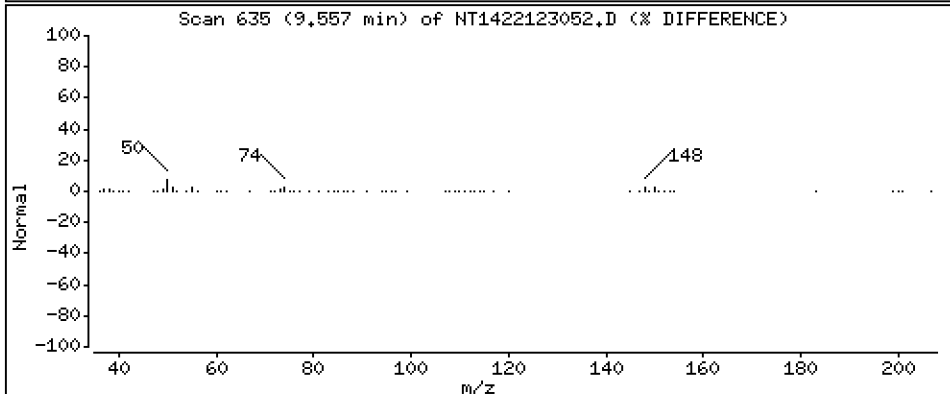
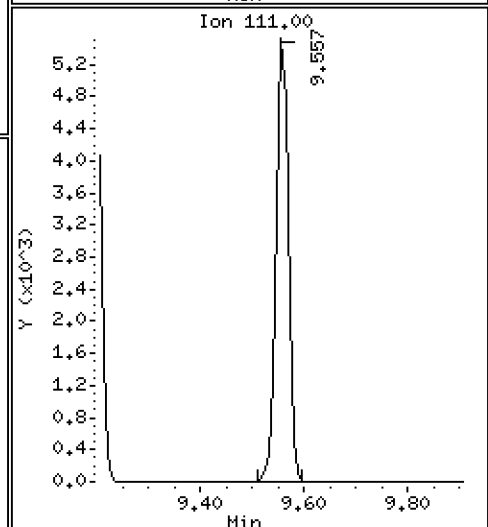
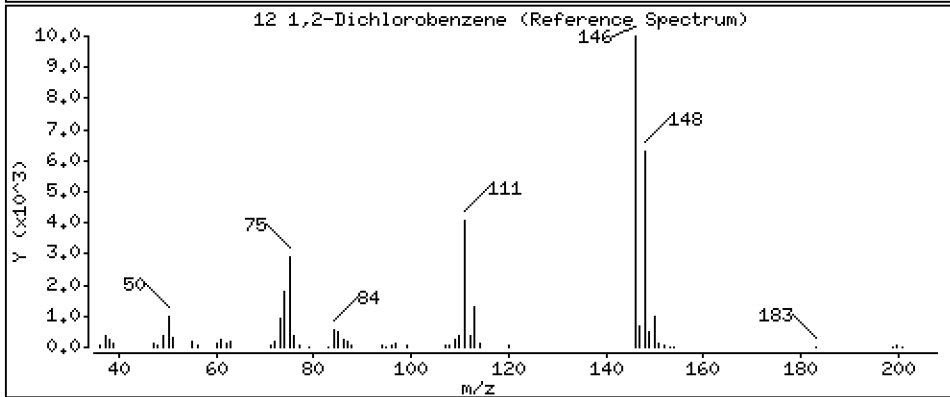
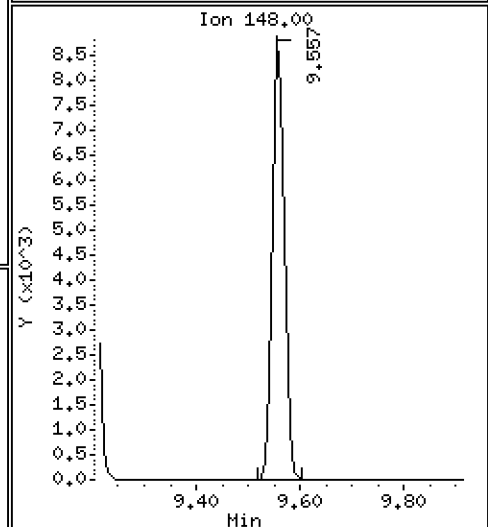
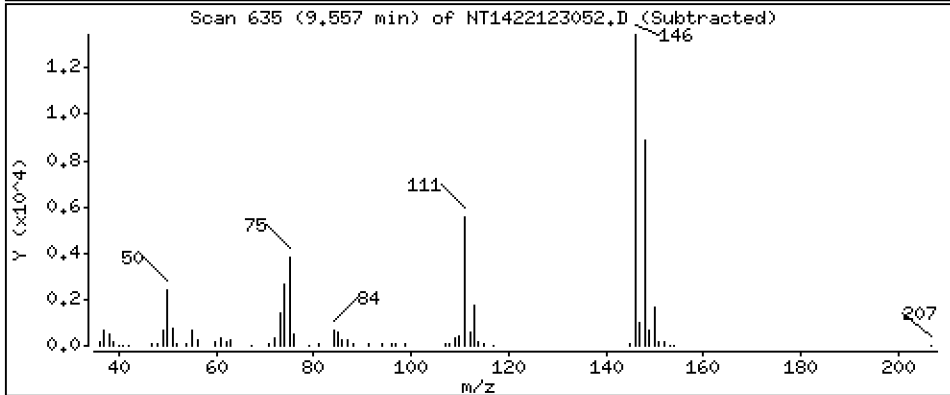
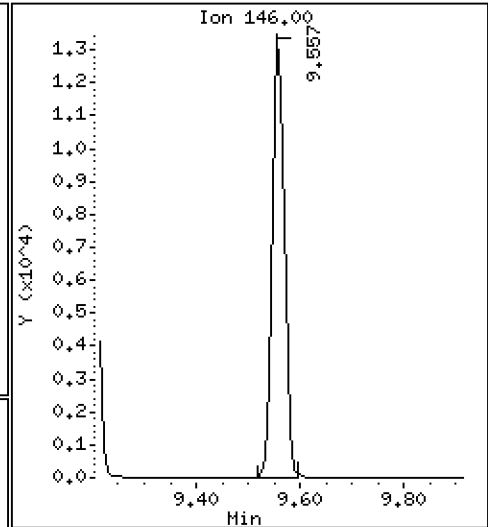
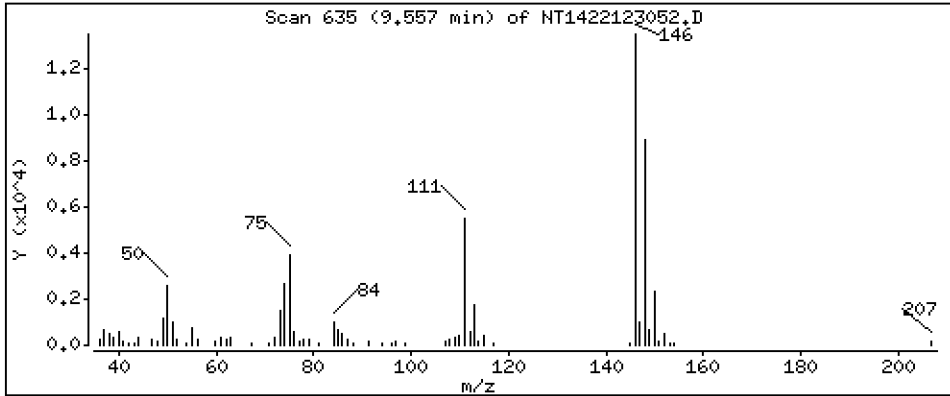
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.4842 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

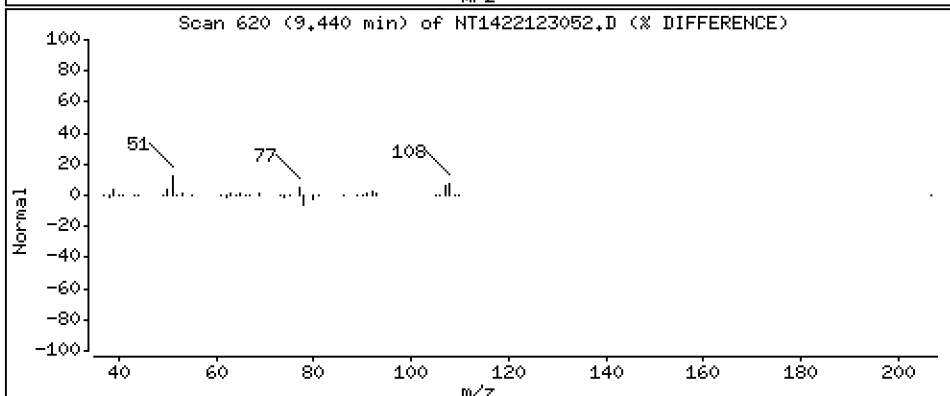
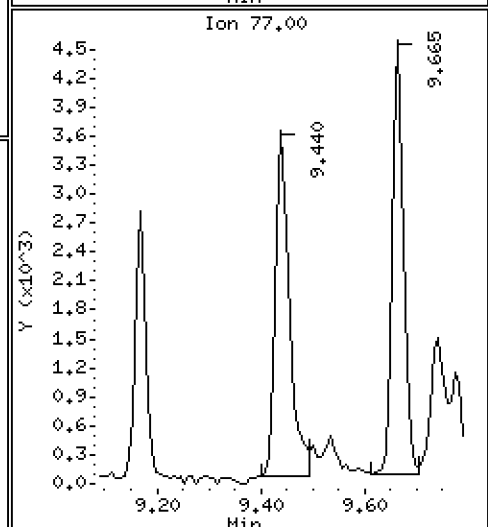
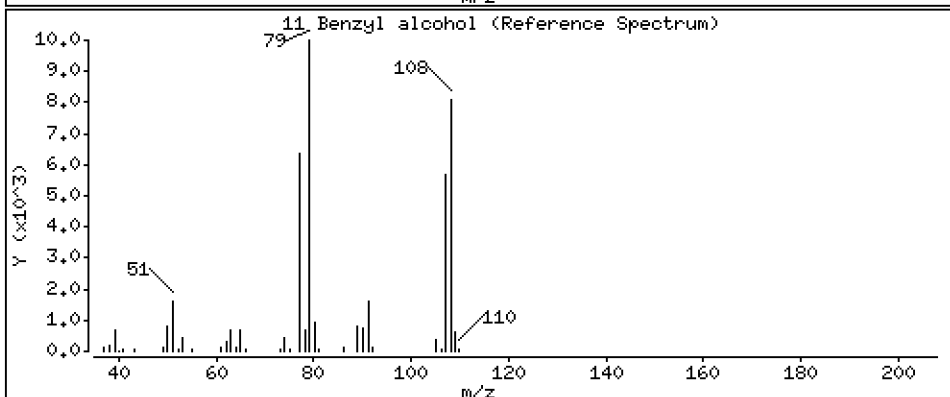
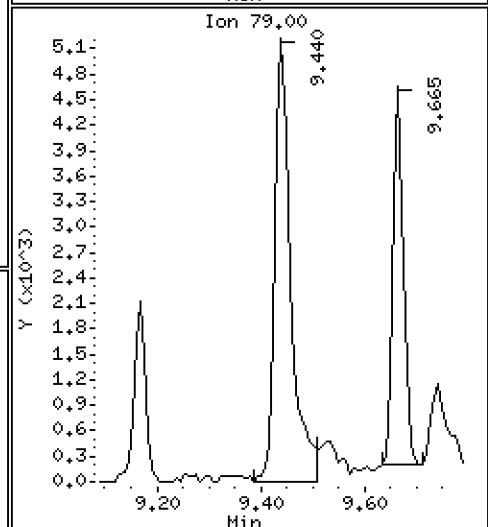
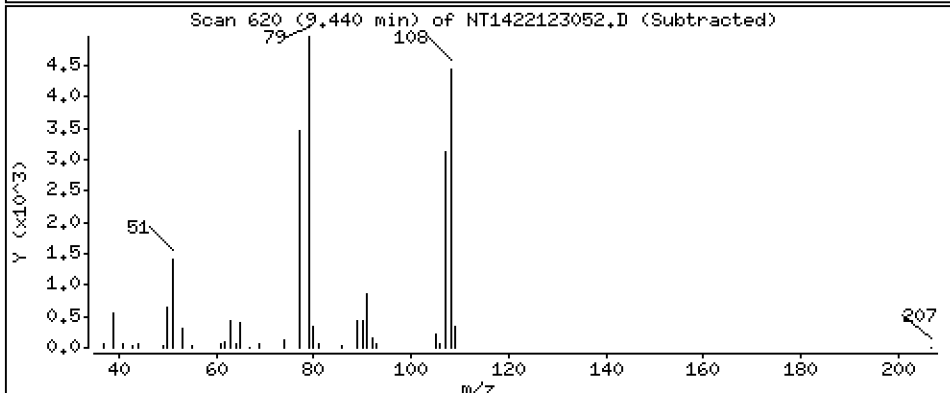
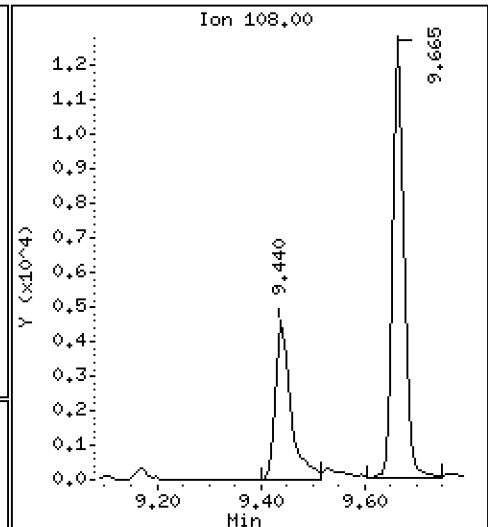
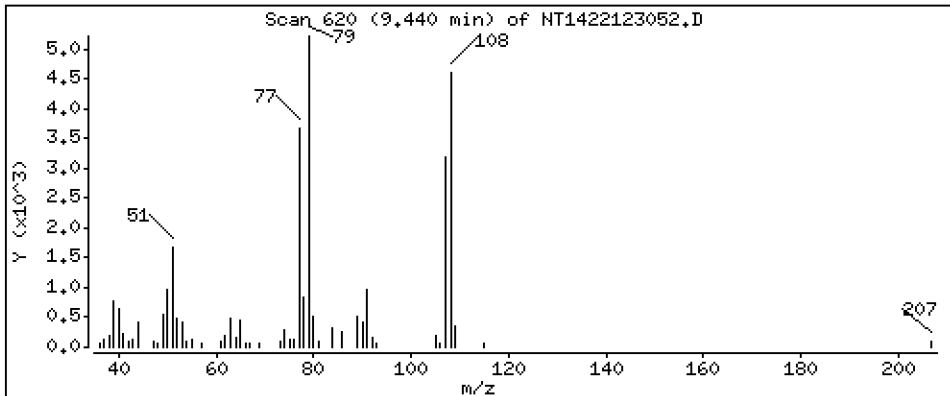
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,3788 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

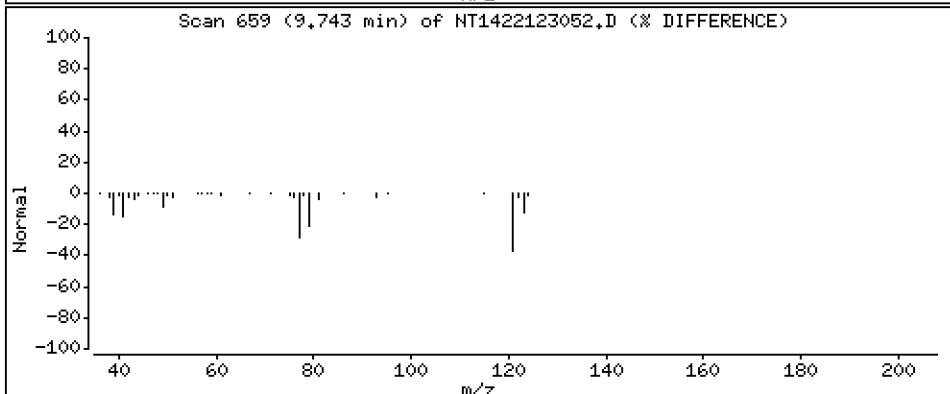
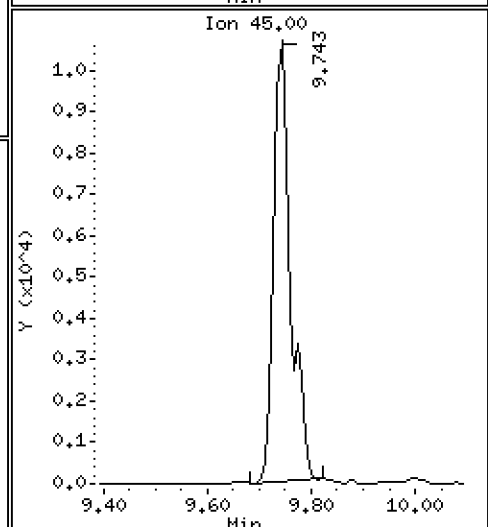
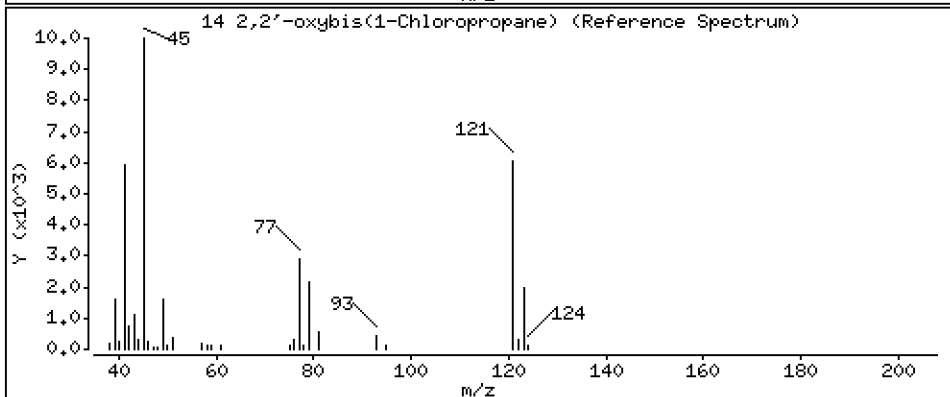
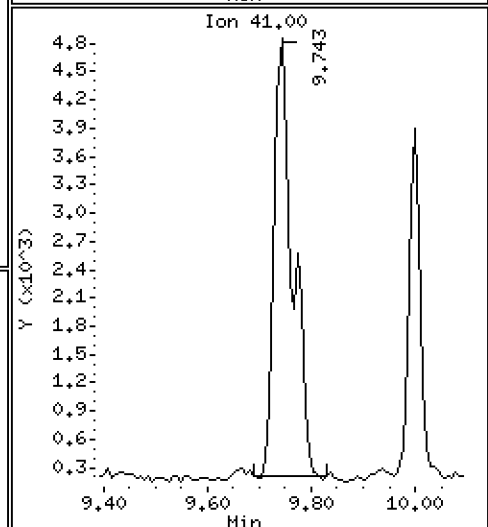
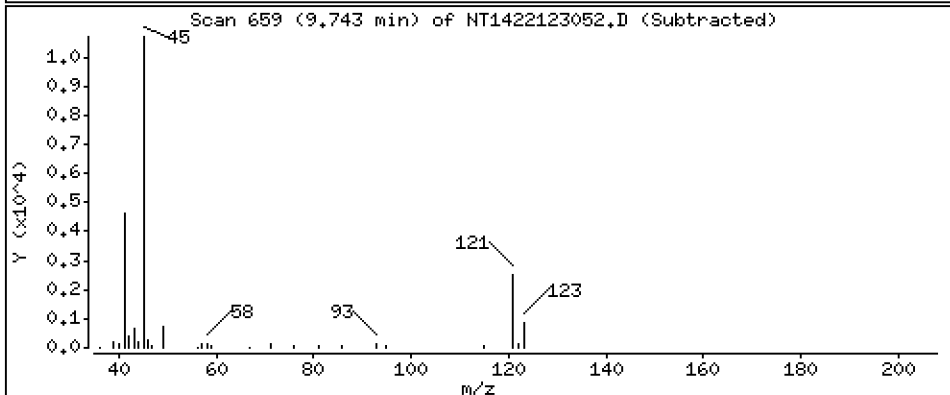
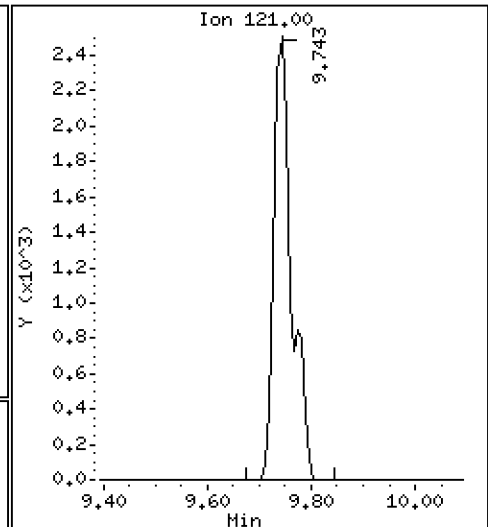
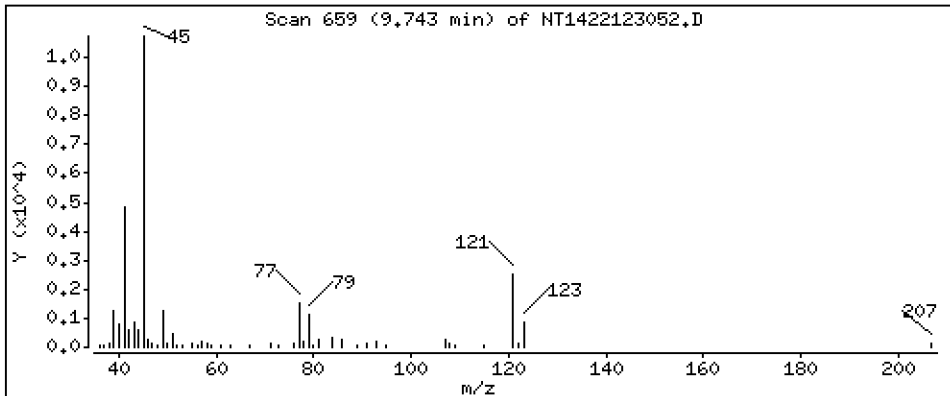
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,4614 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

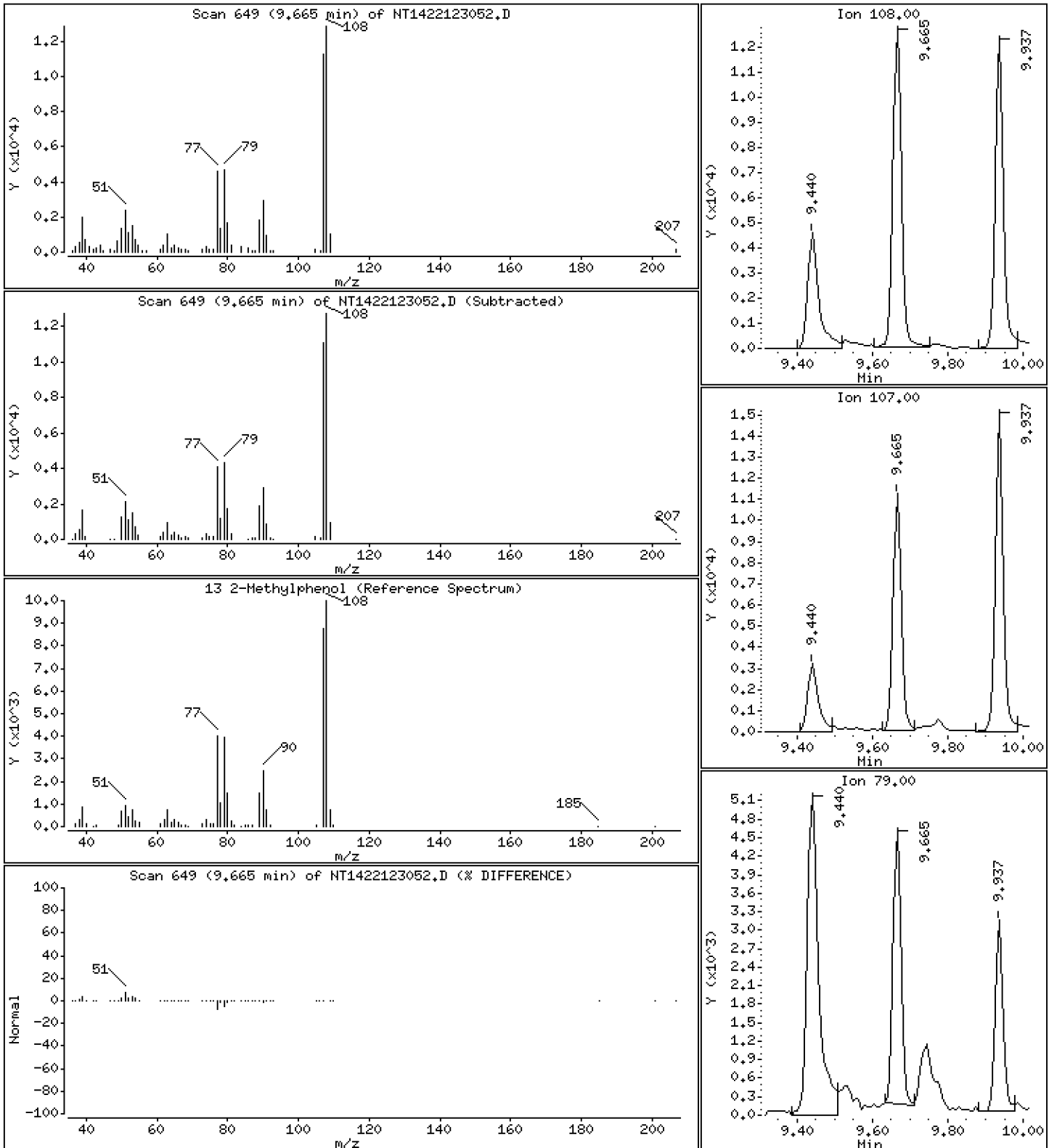
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.4833 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

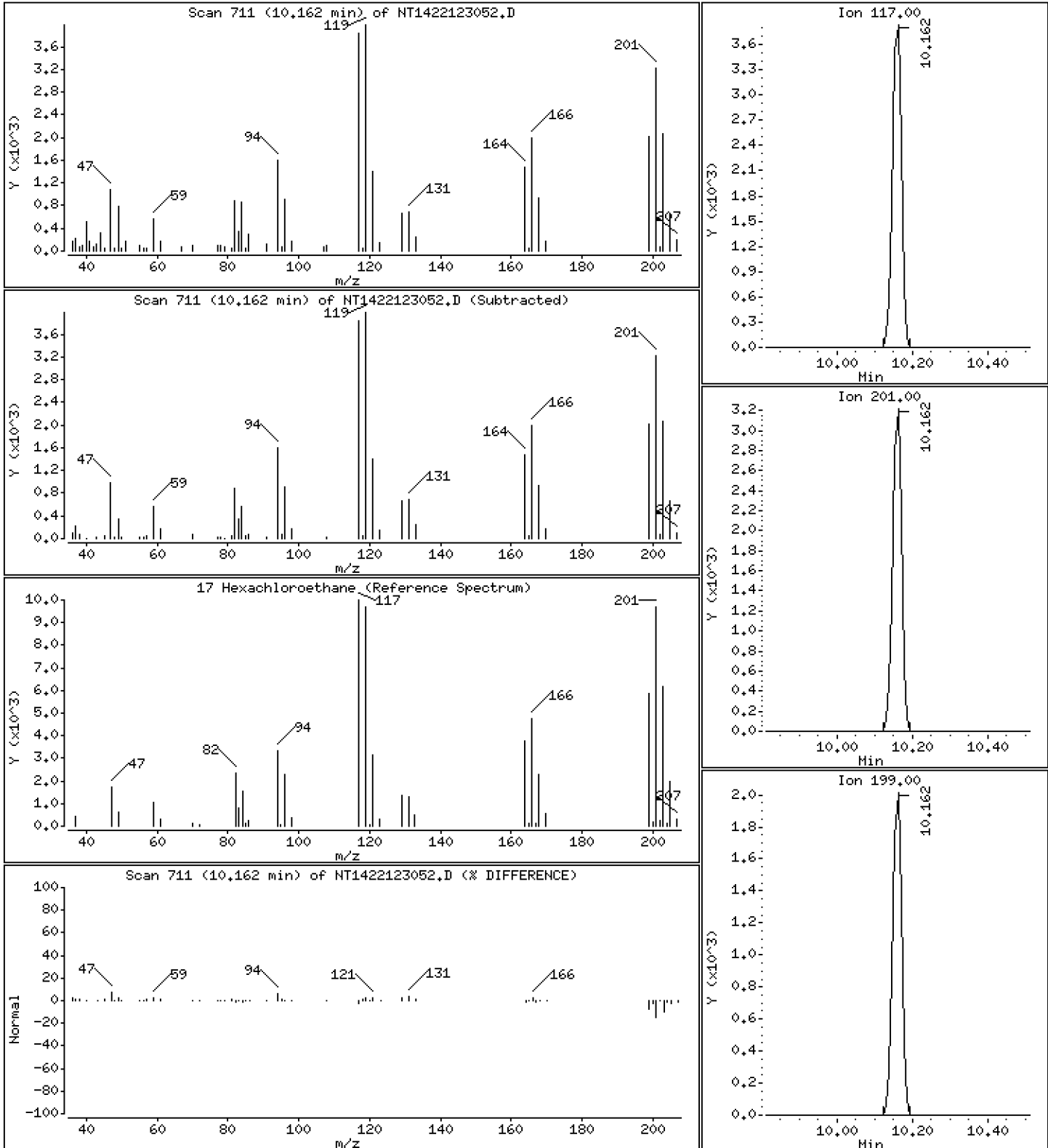
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,3728 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

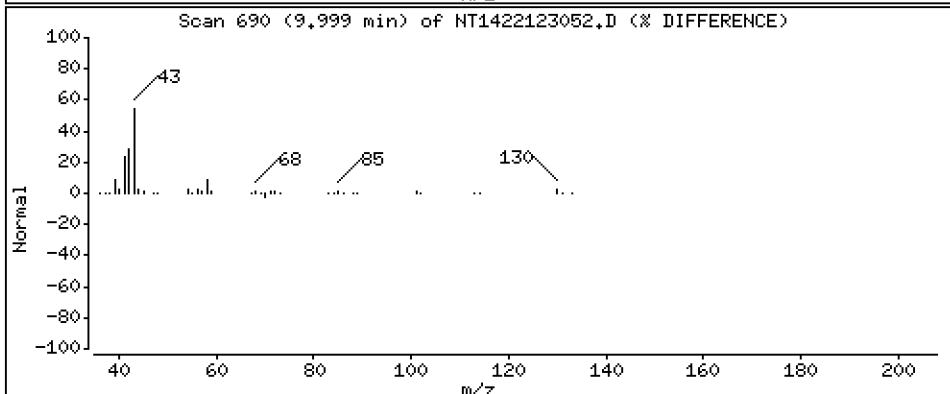
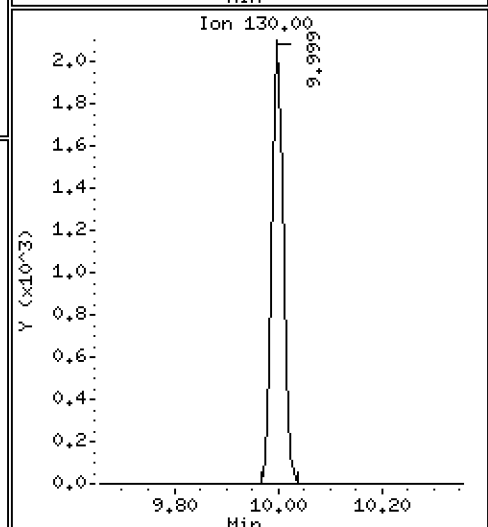
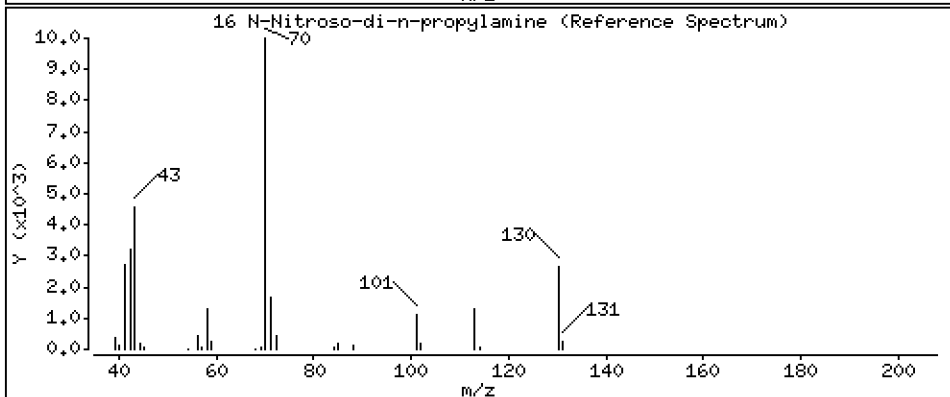
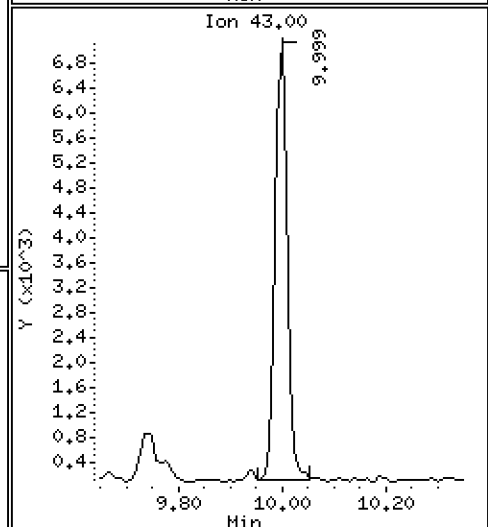
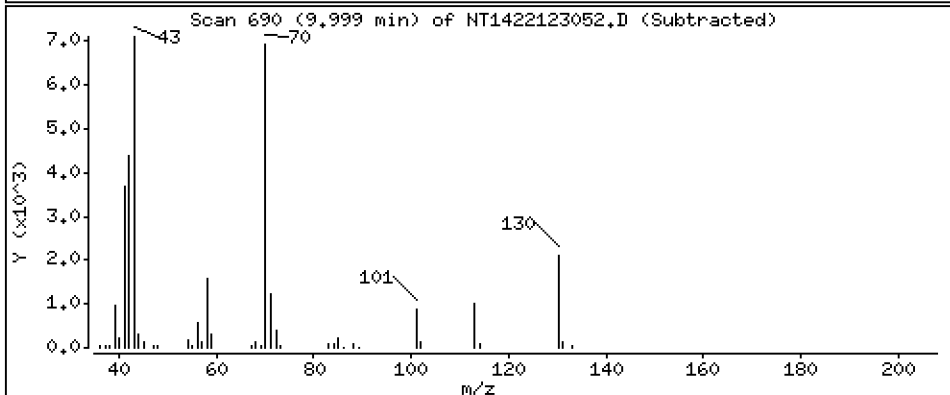
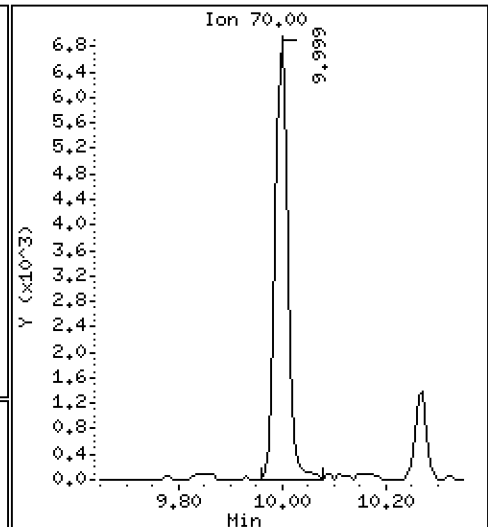
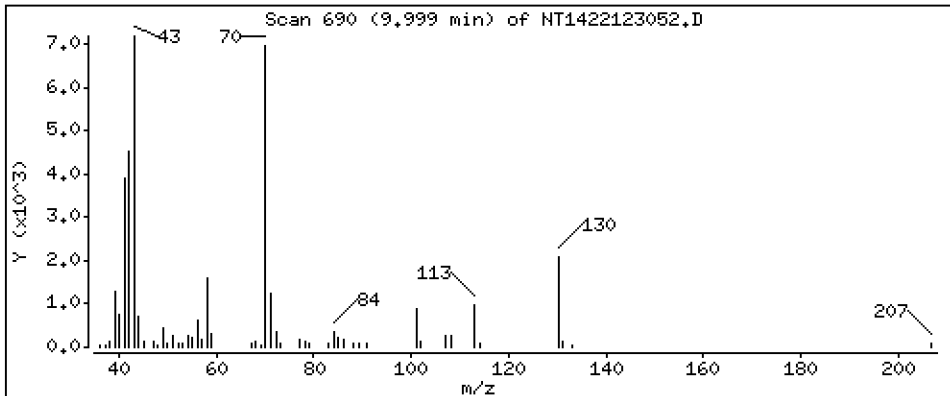
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,4654 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

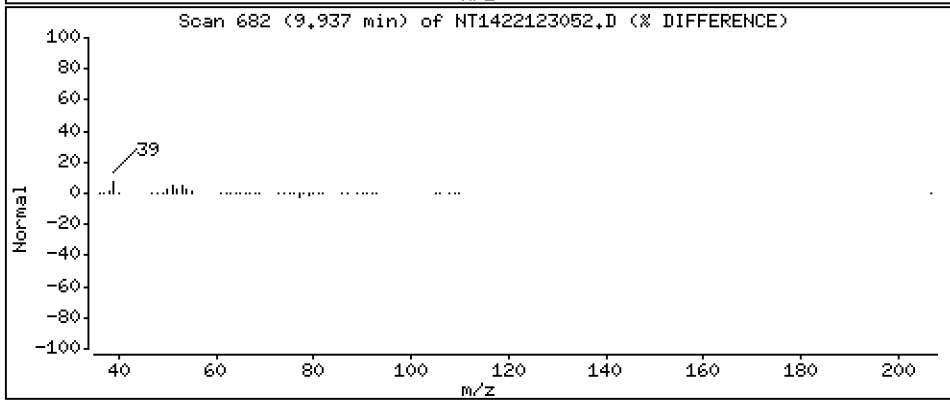
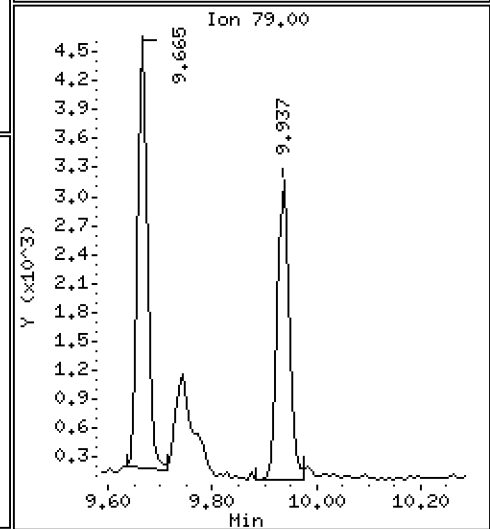
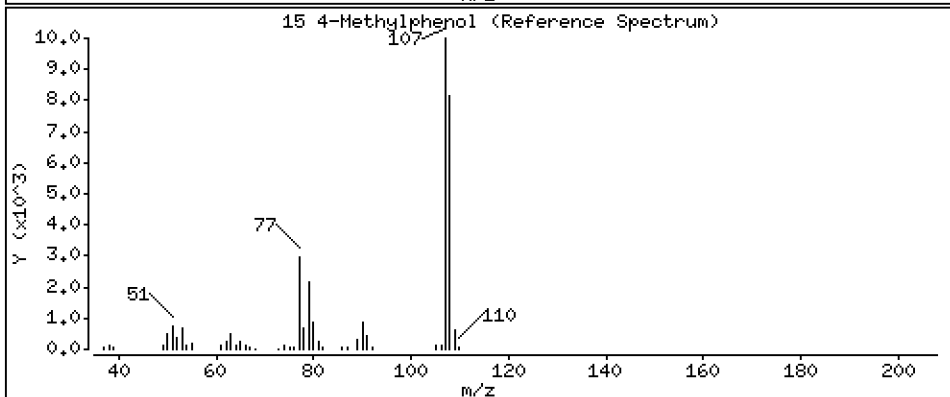
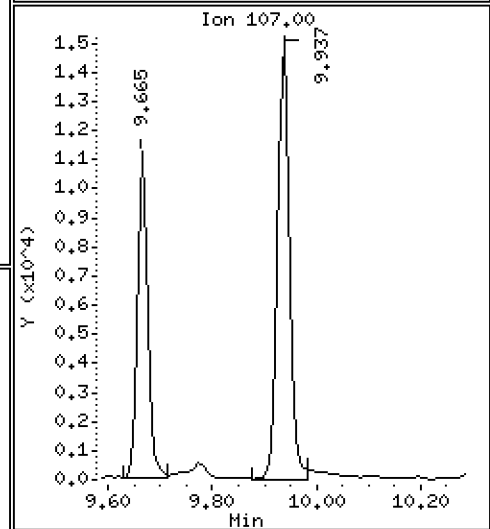
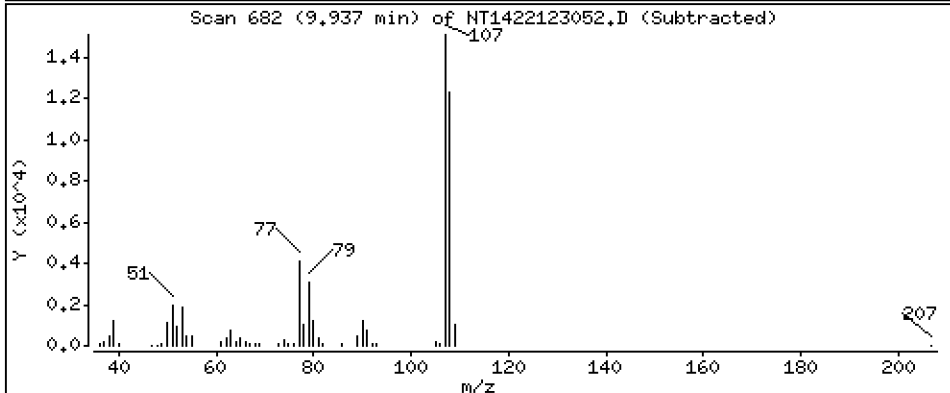
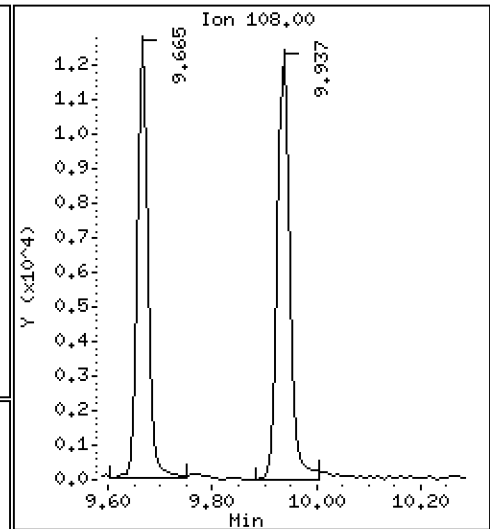
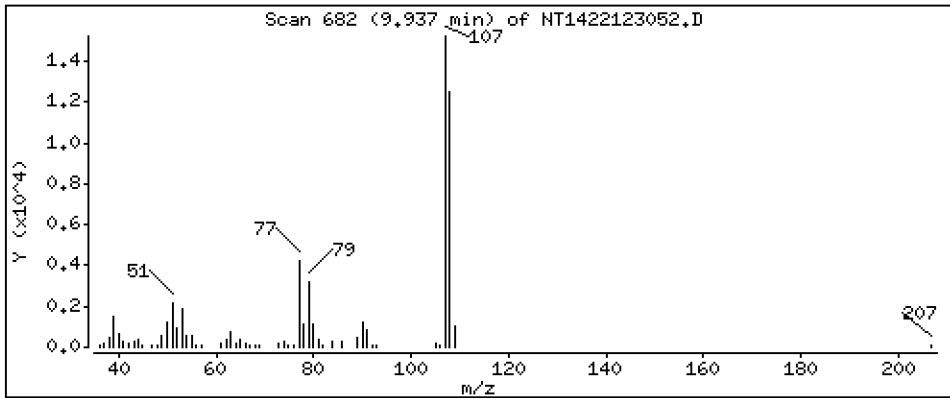
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4747 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

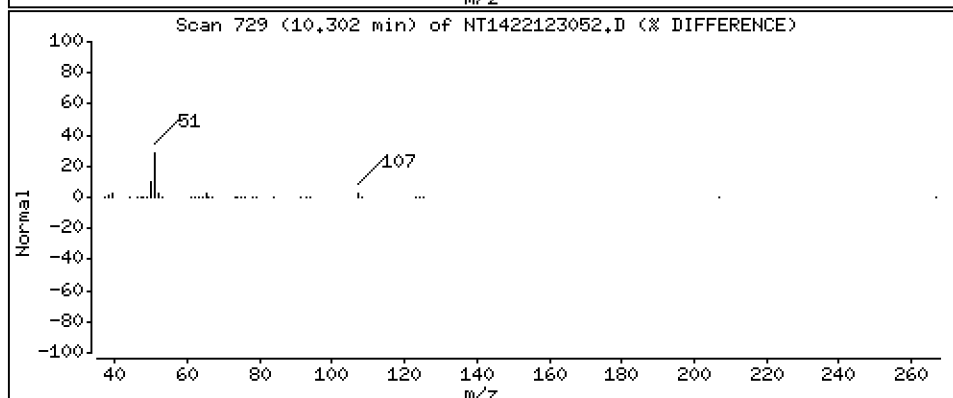
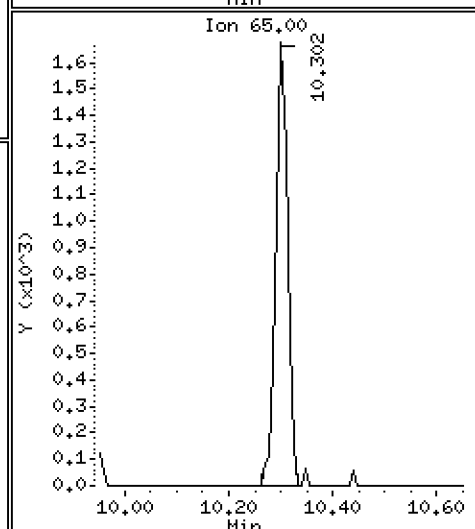
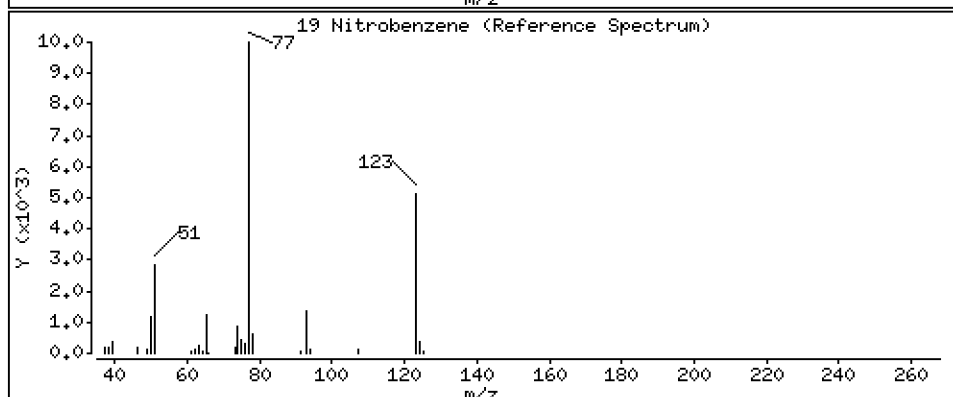
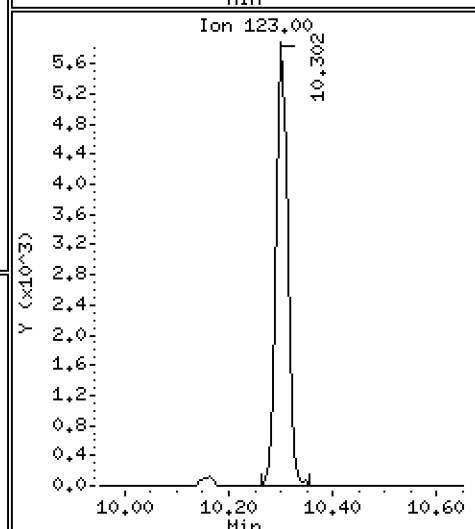
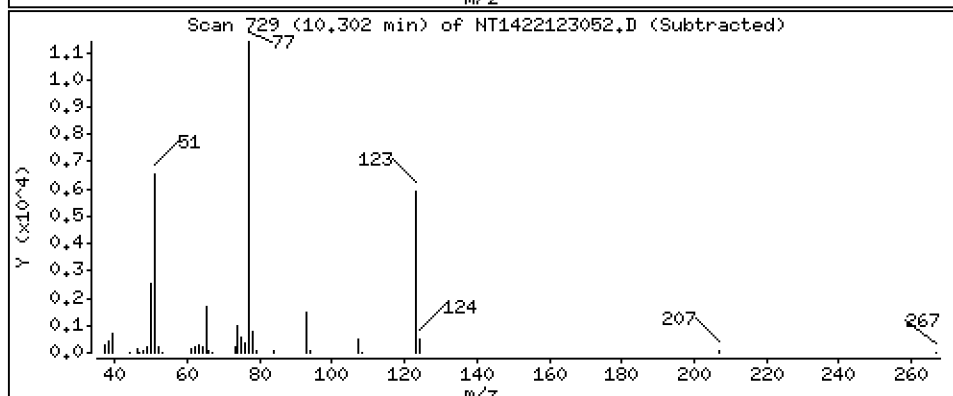
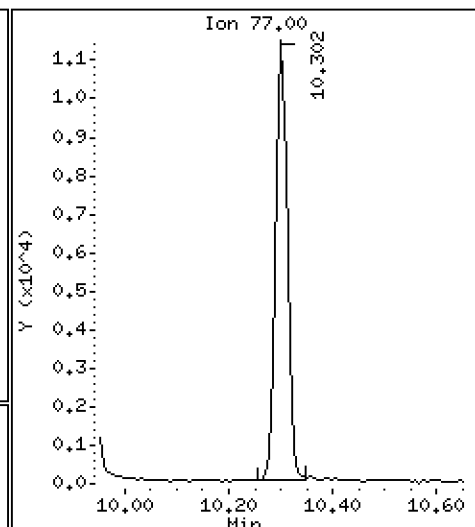
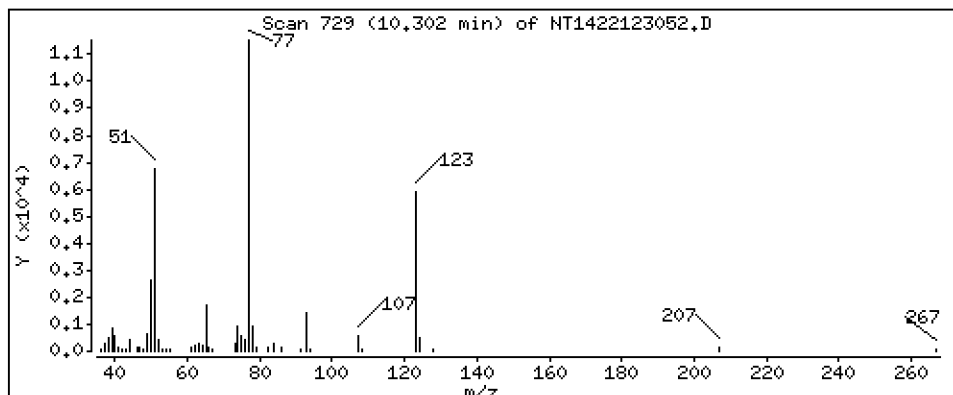
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4641 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

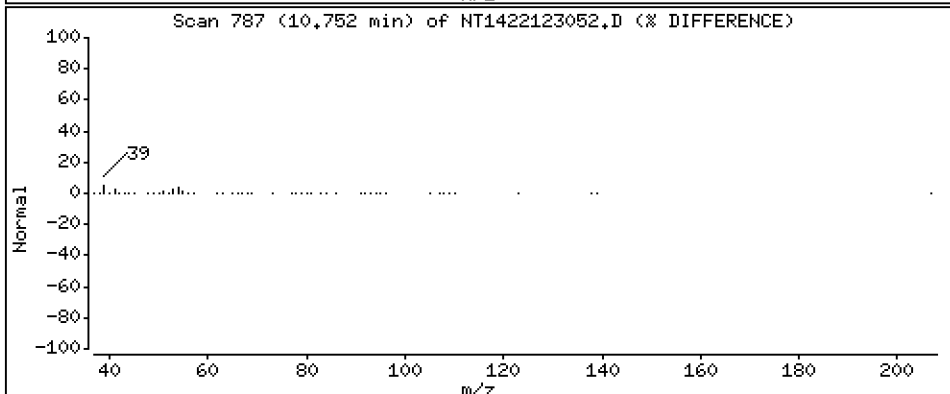
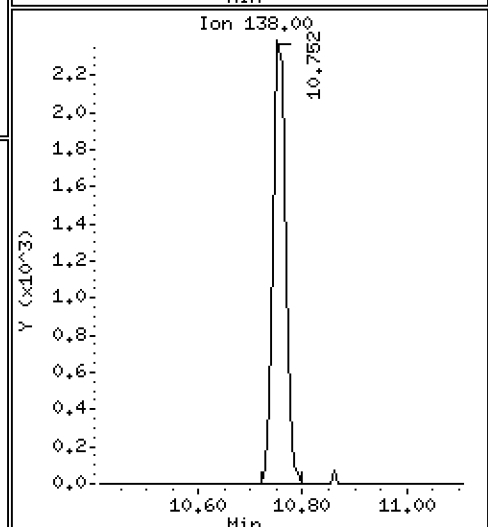
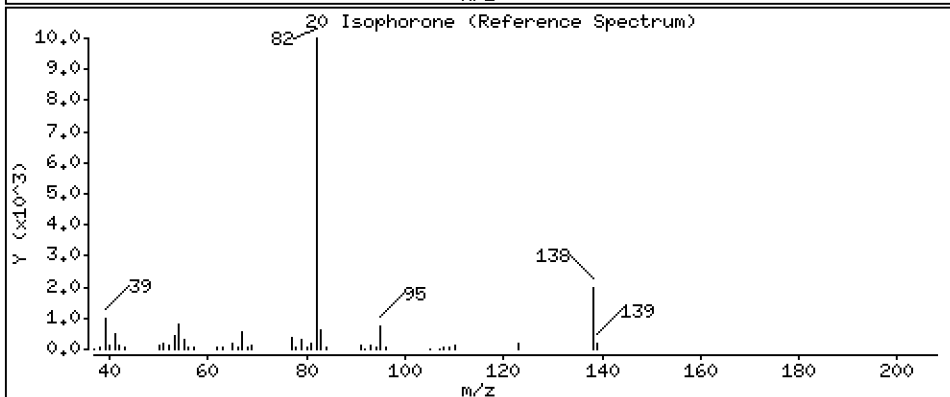
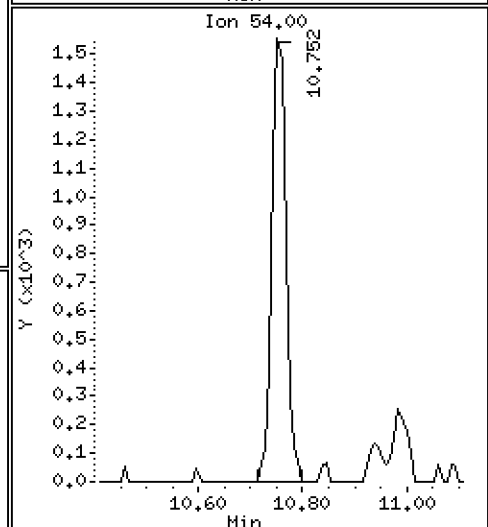
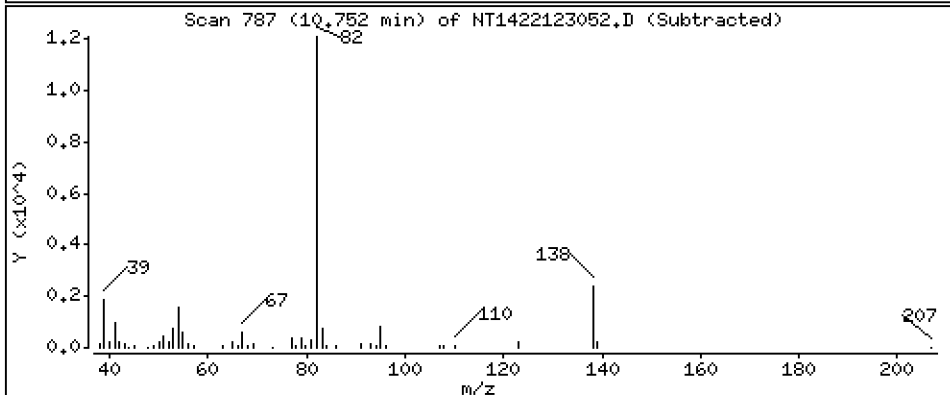
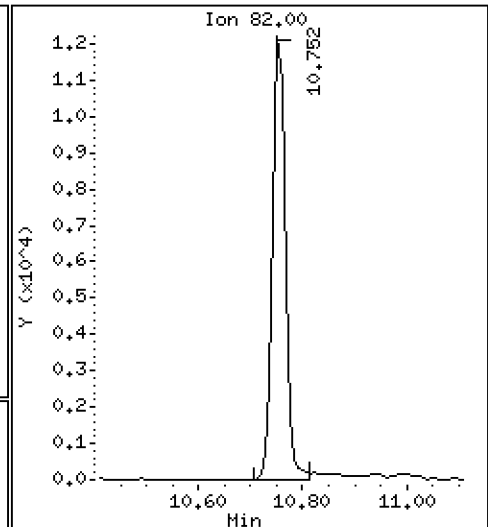
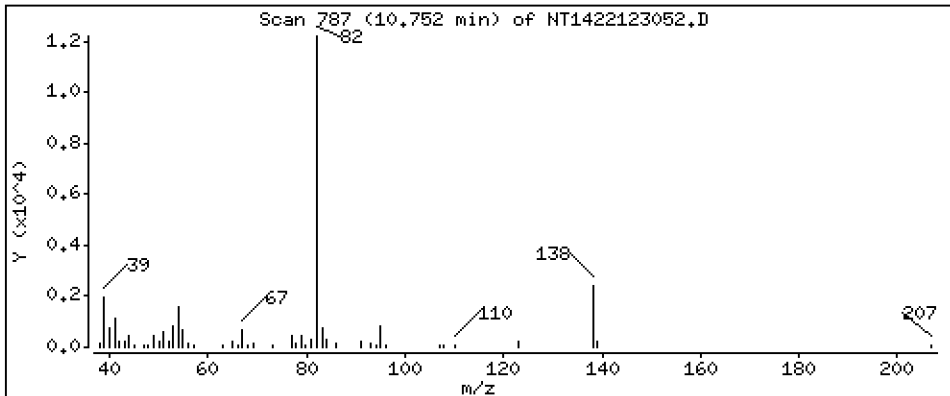
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4317 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

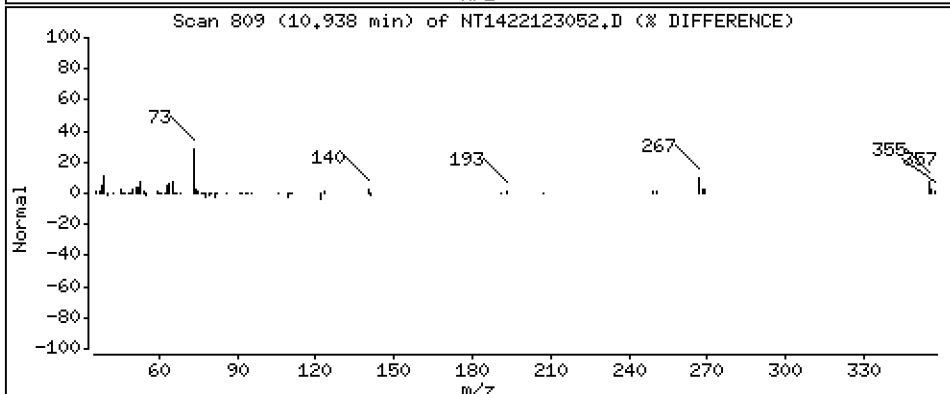
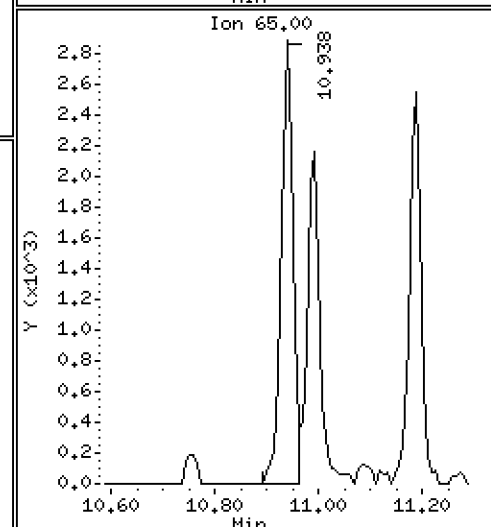
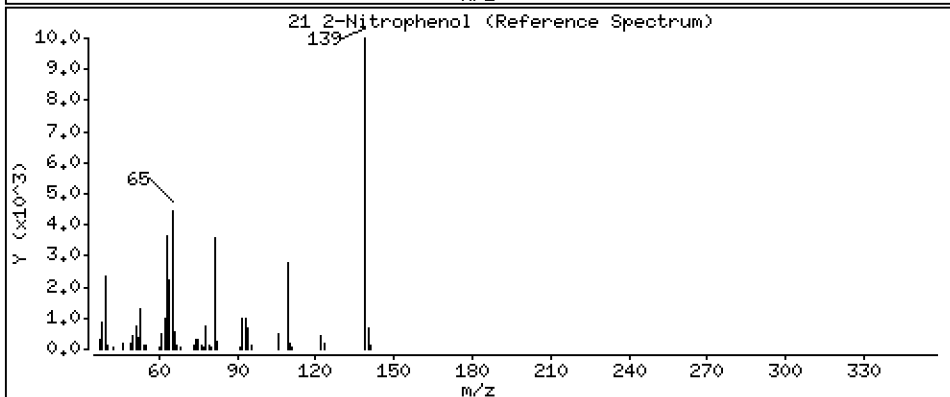
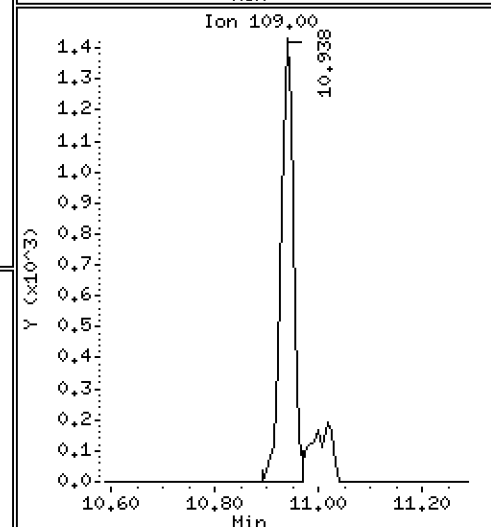
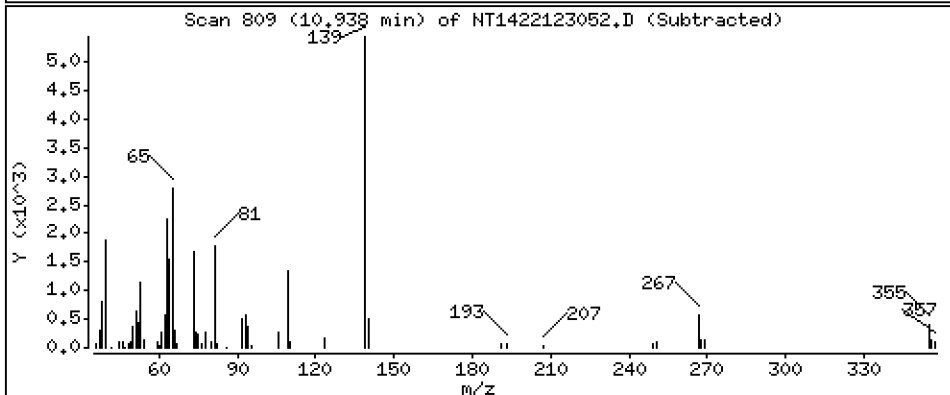
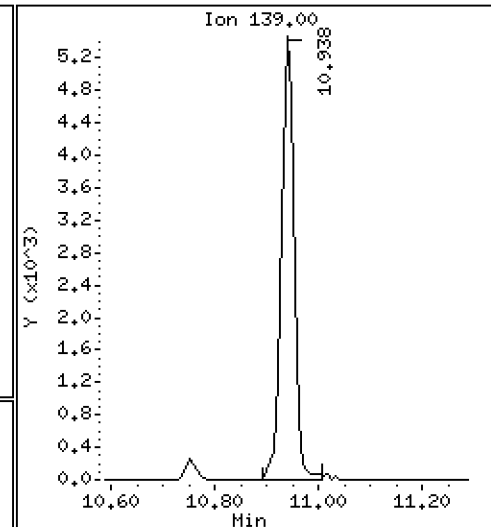
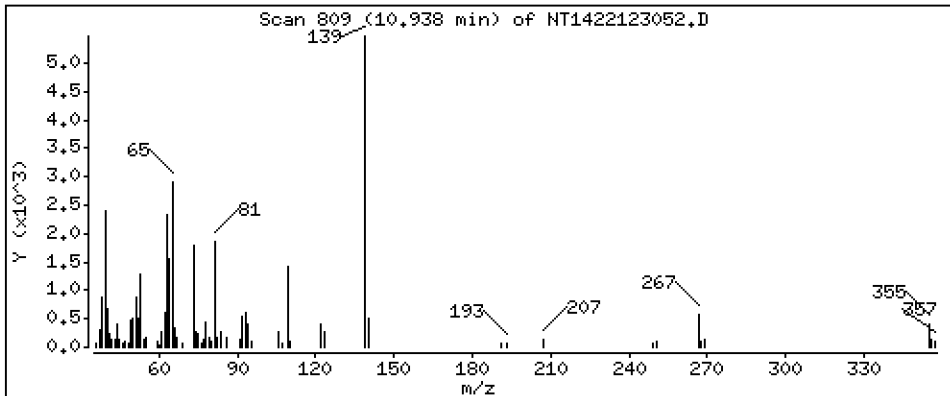
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4561 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

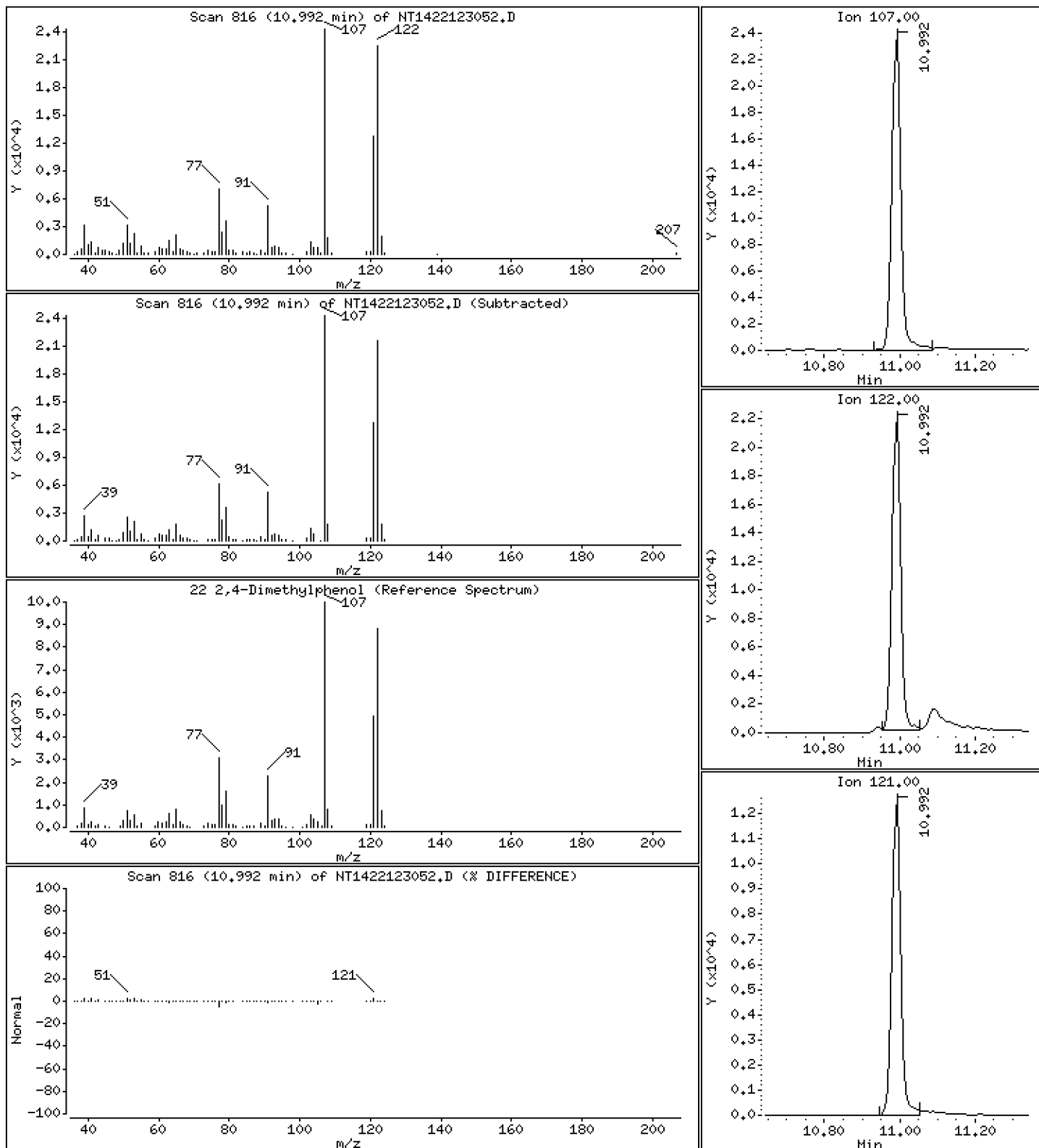
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,9882 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

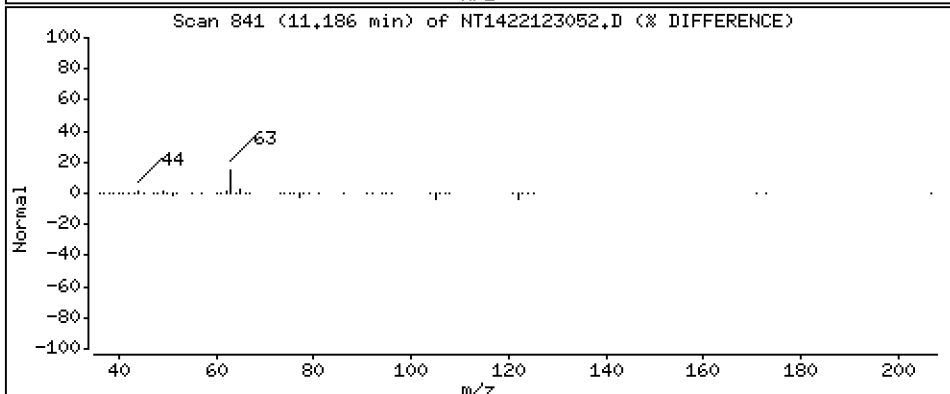
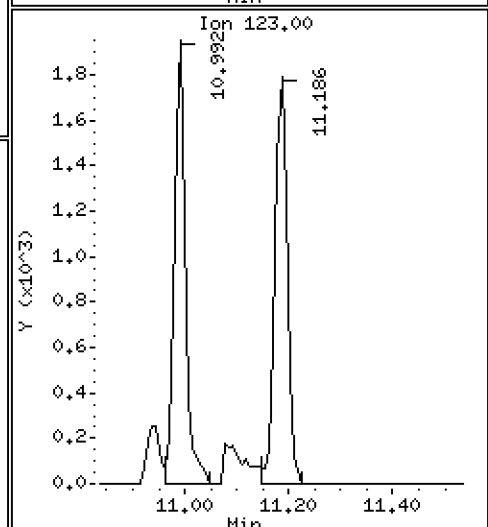
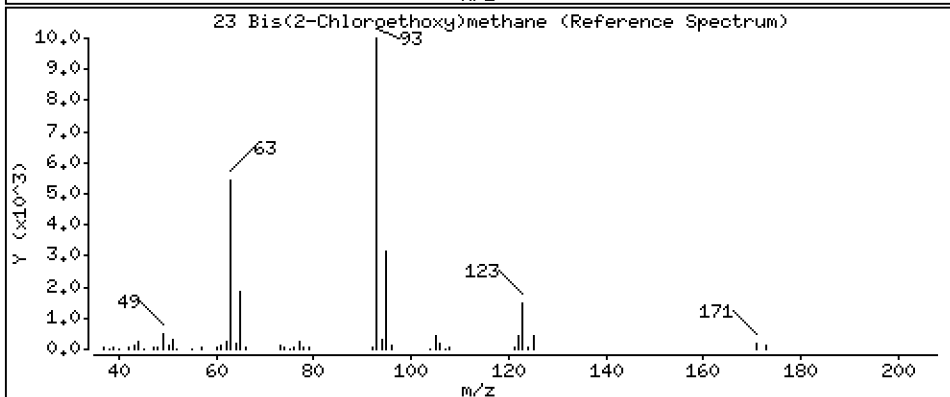
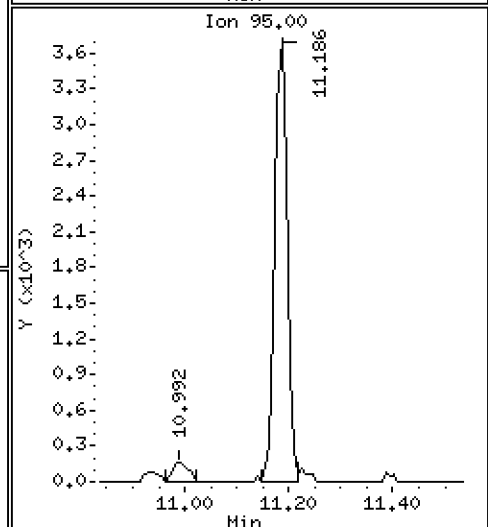
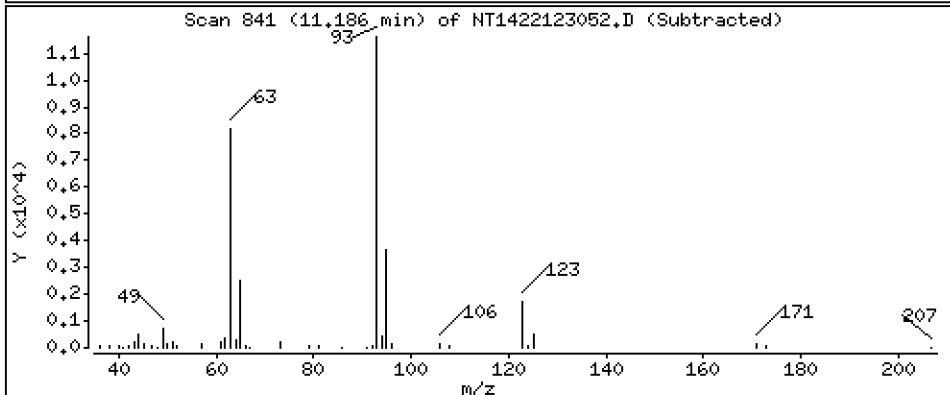
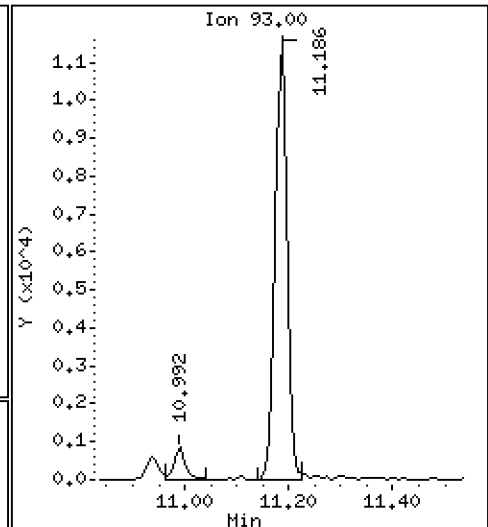
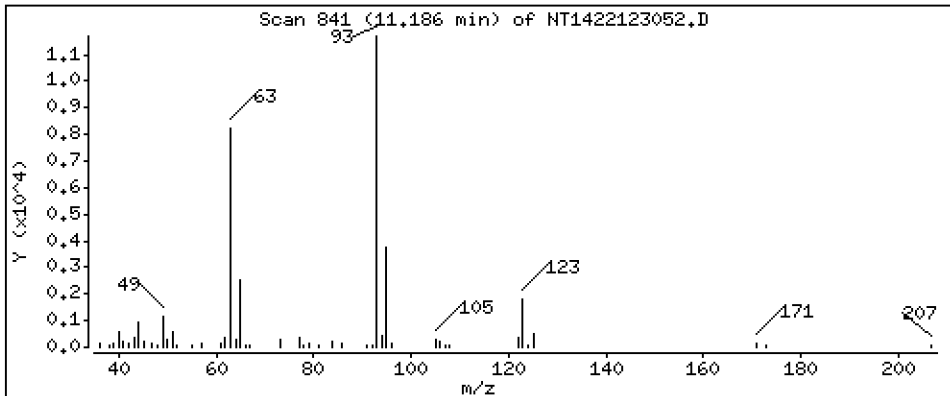
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,4840 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

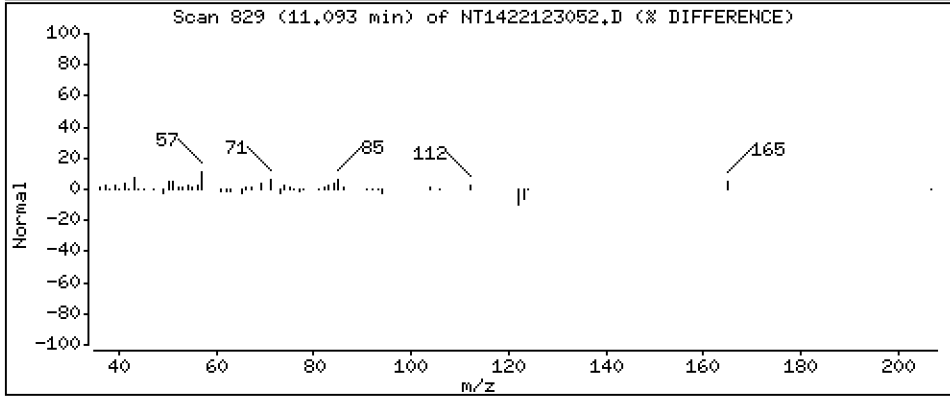
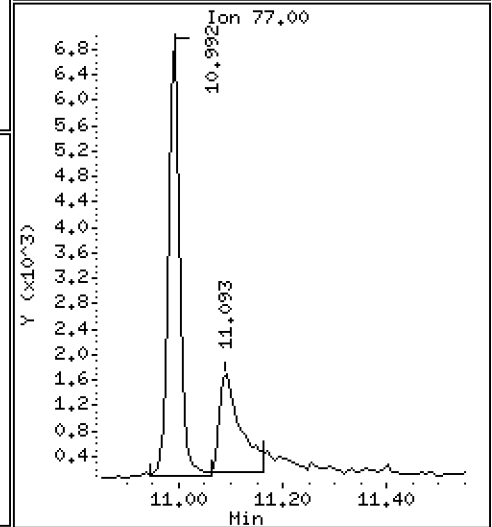
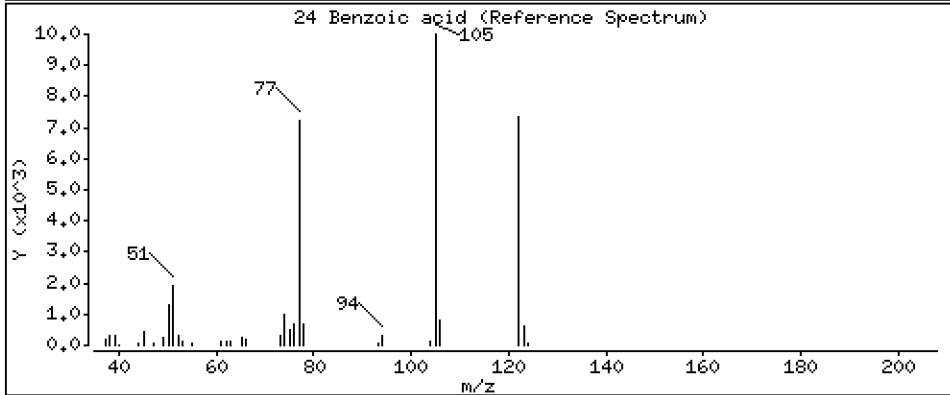
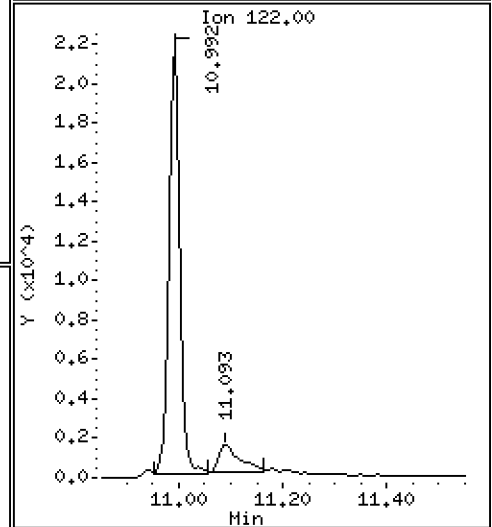
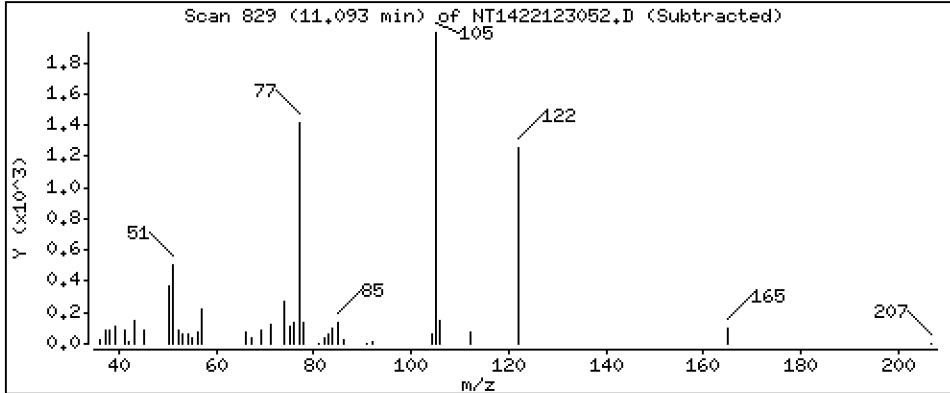
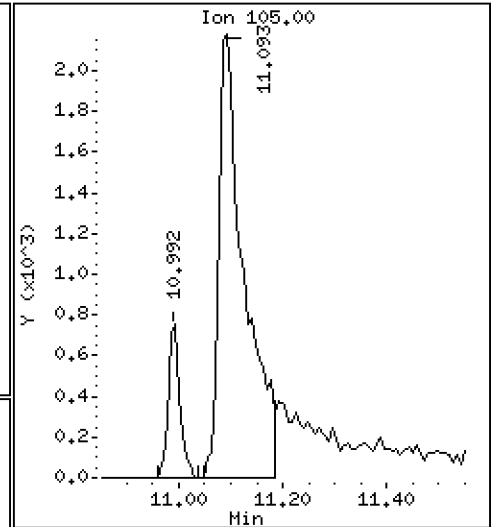
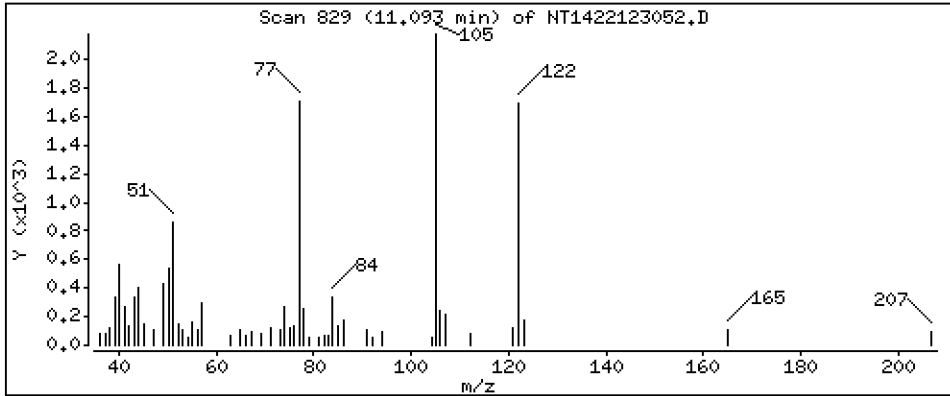
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 0,3306 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

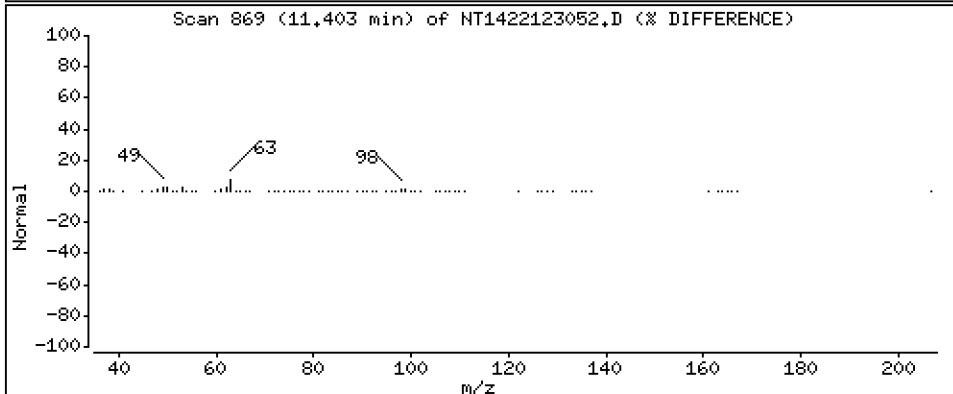
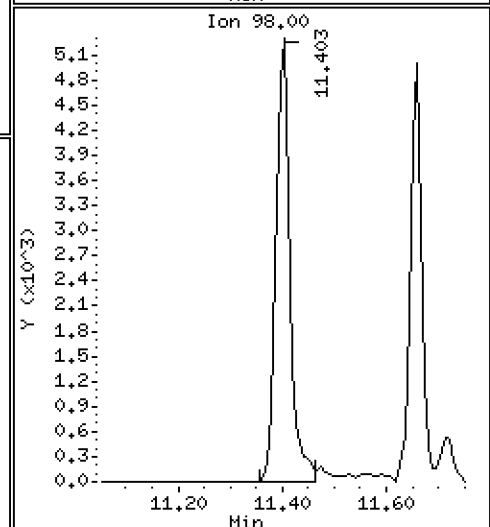
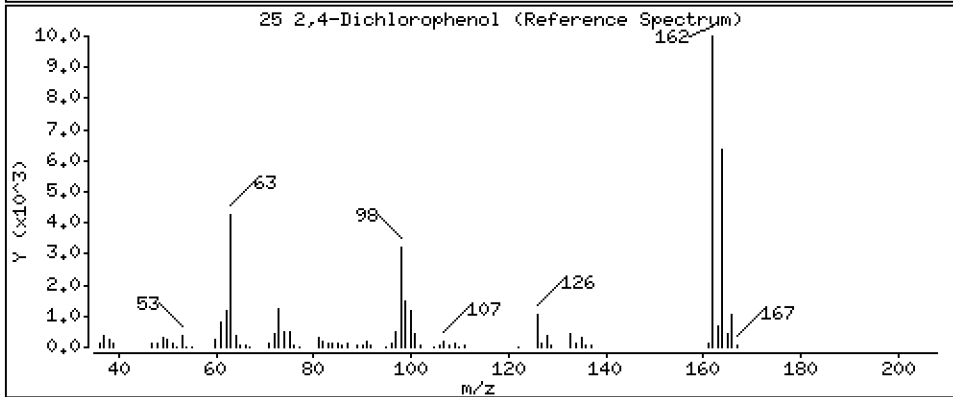
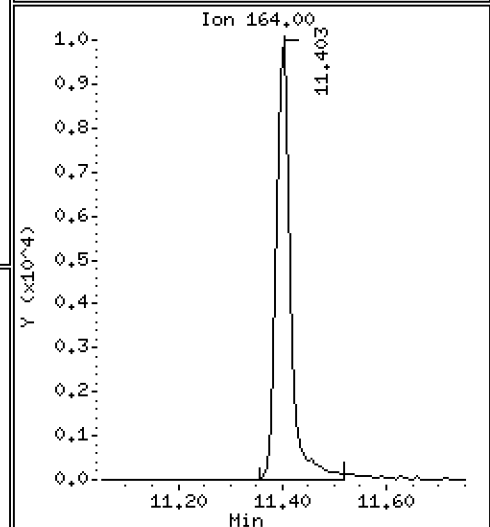
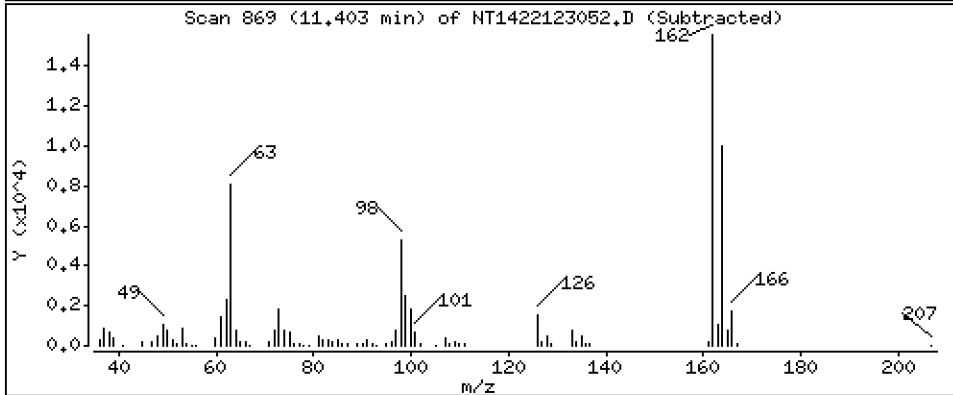
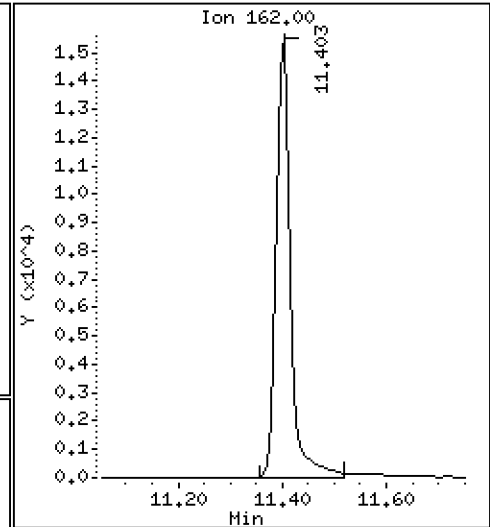
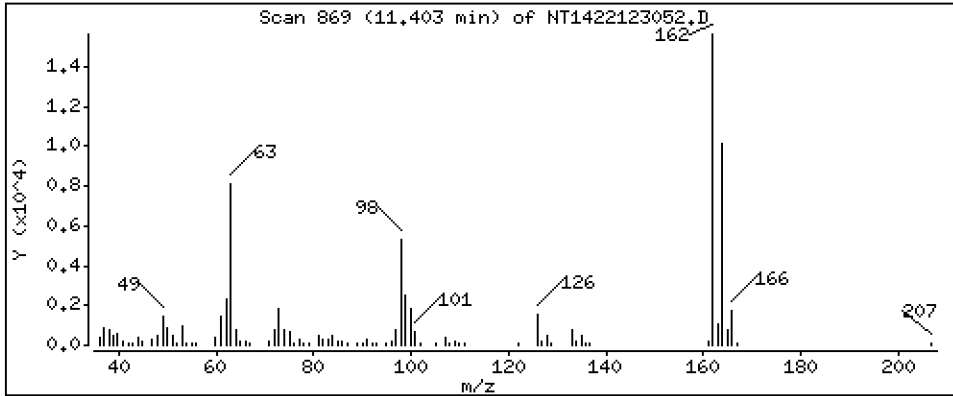
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,9922 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

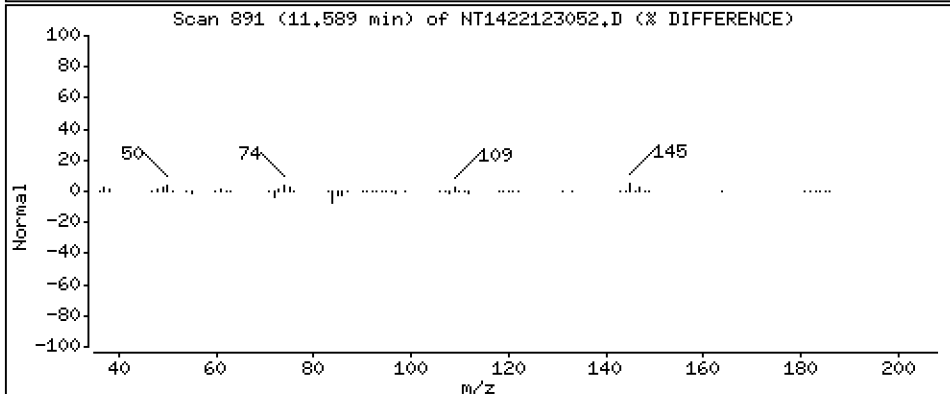
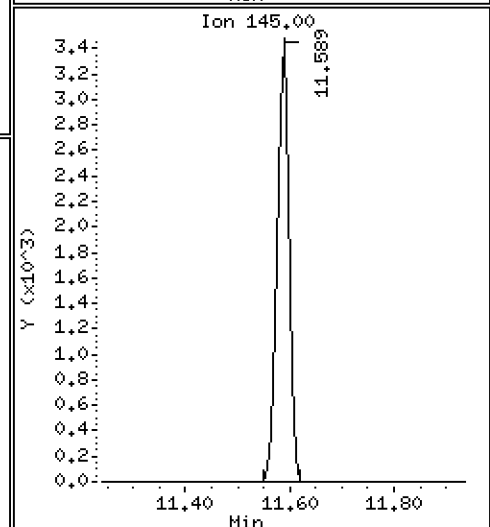
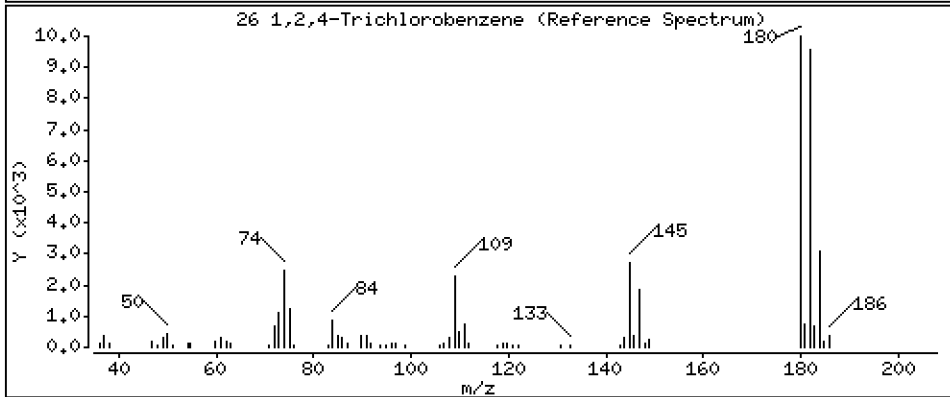
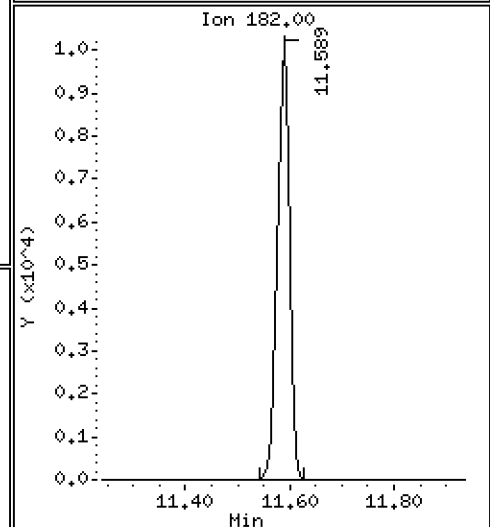
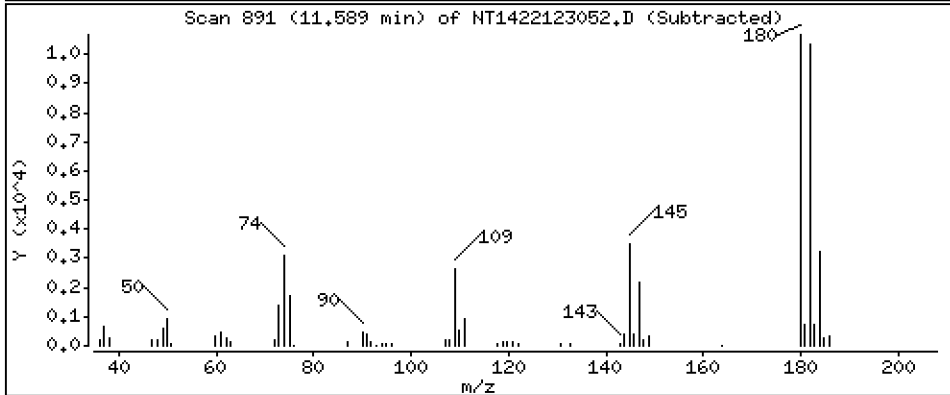
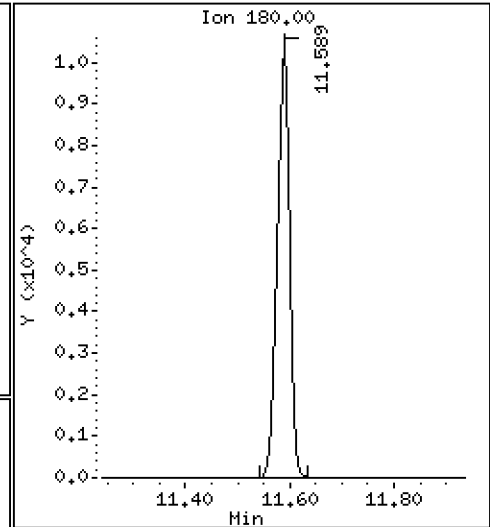
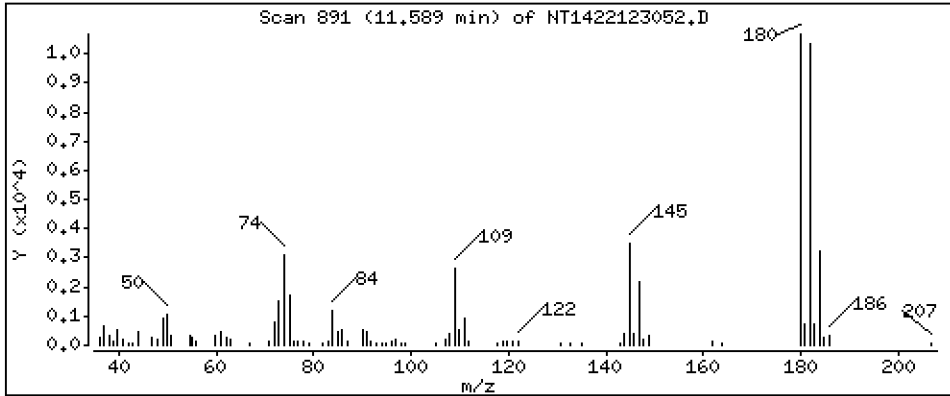
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4816 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

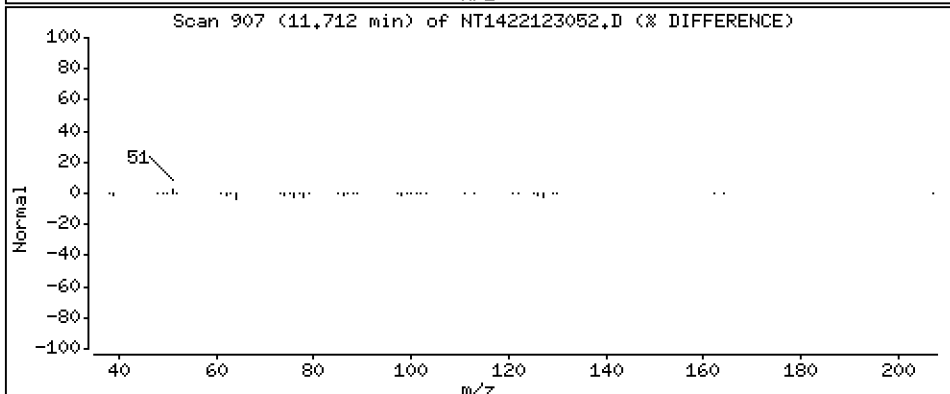
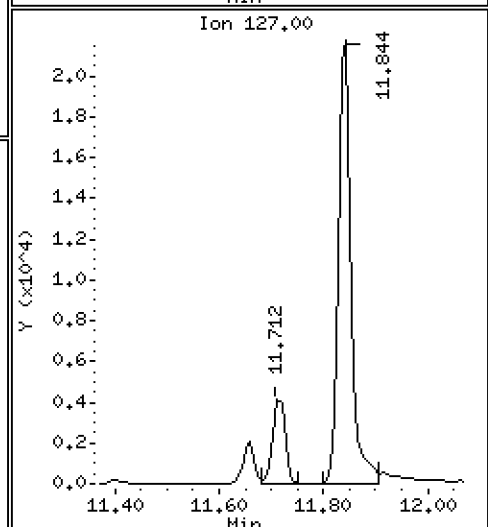
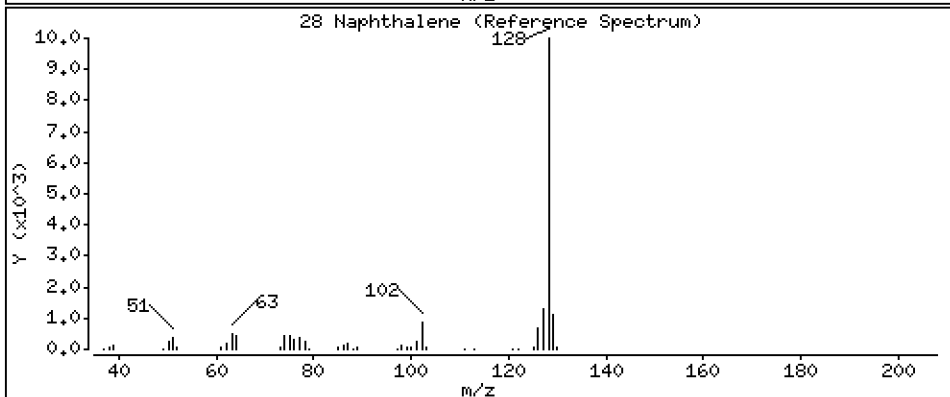
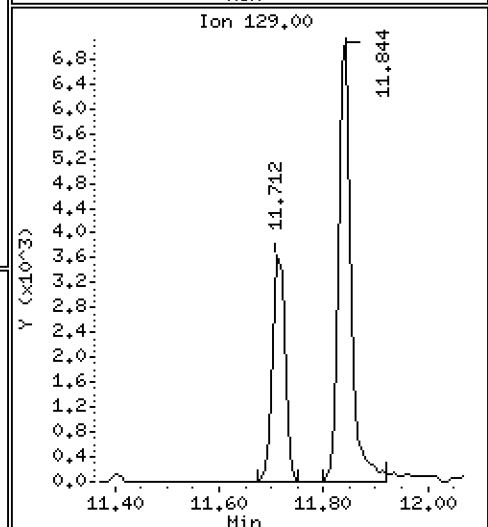
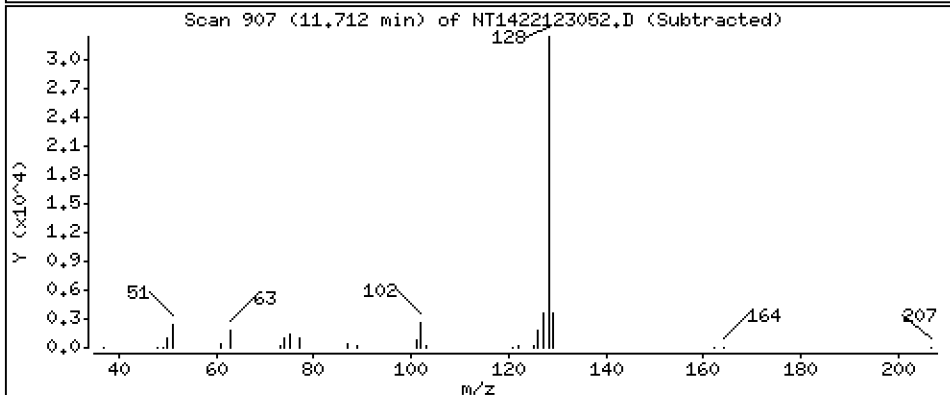
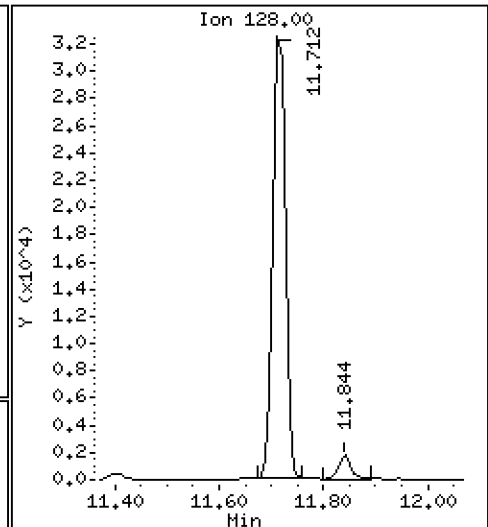
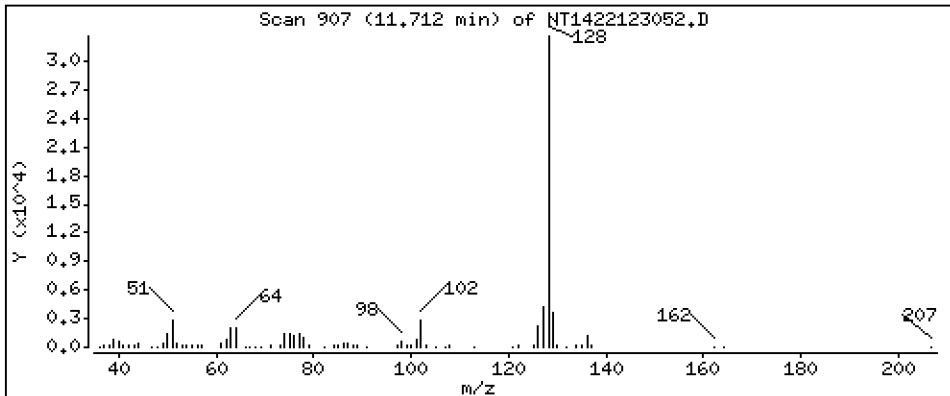
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,4844 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

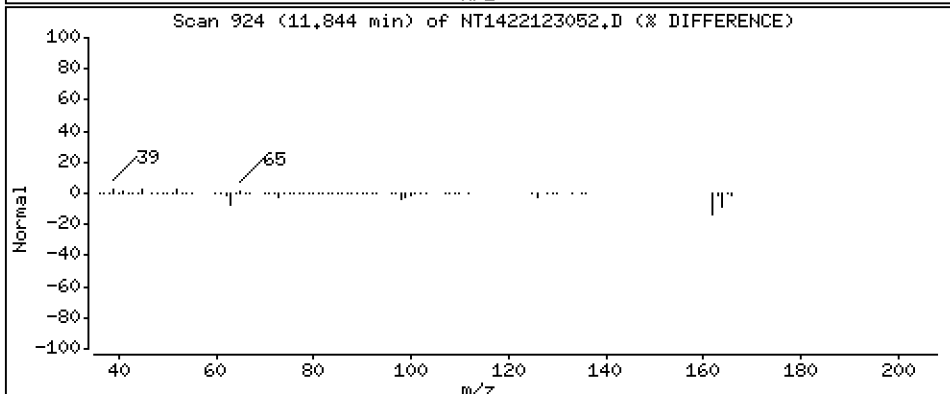
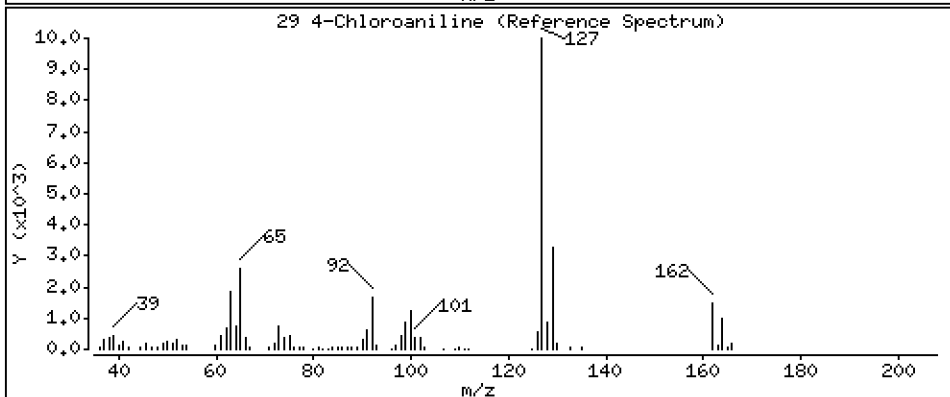
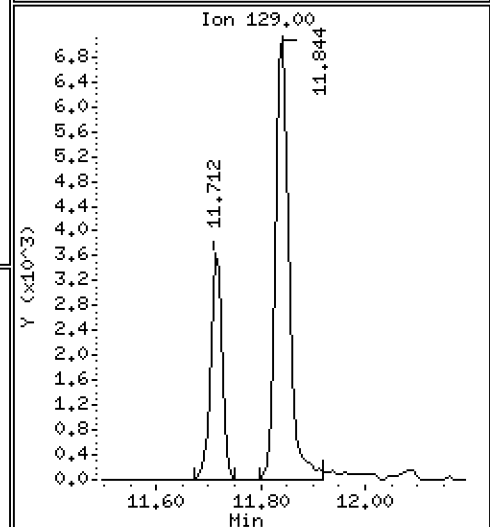
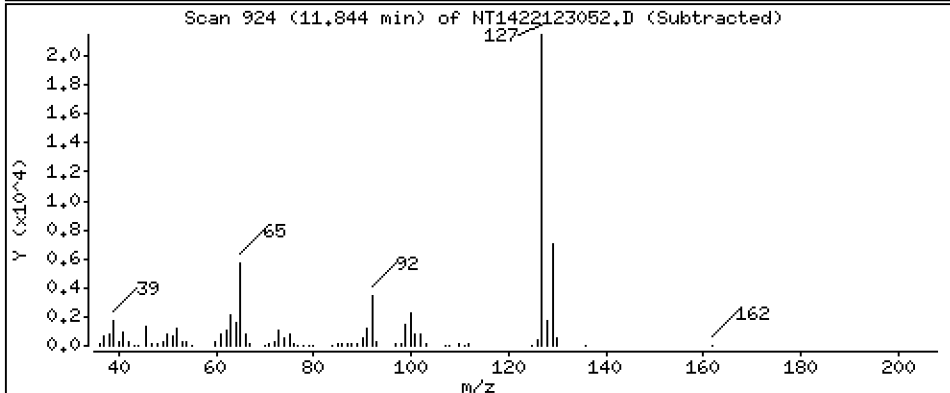
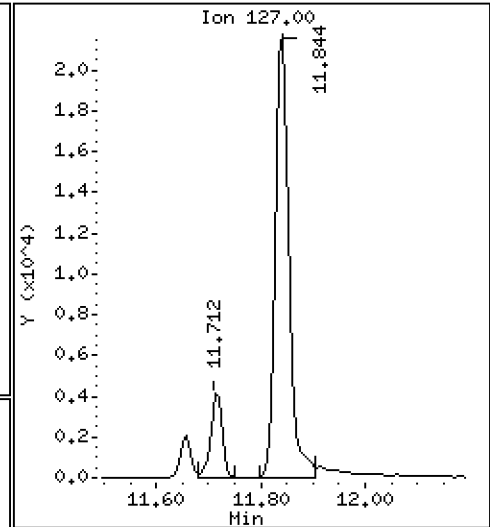
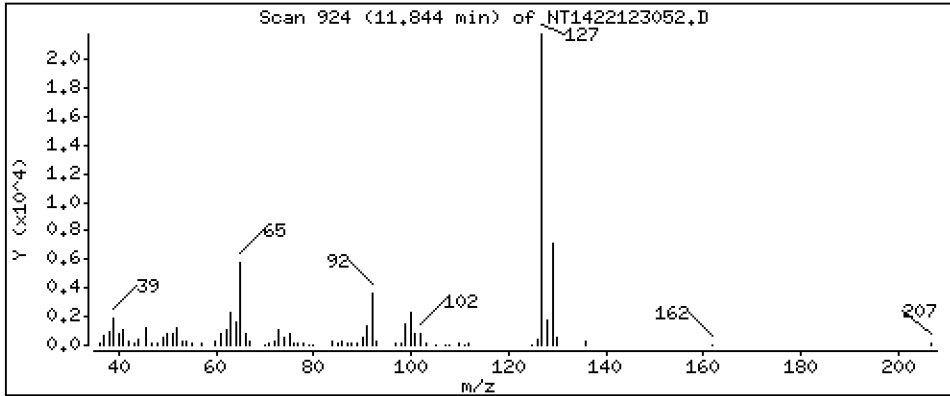
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8698 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

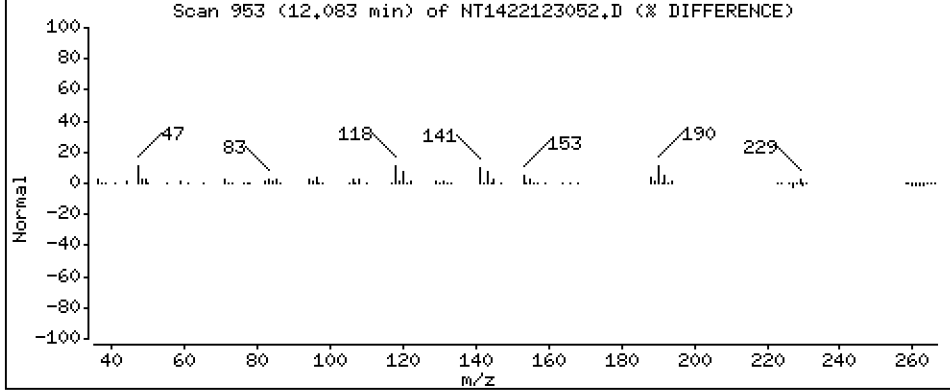
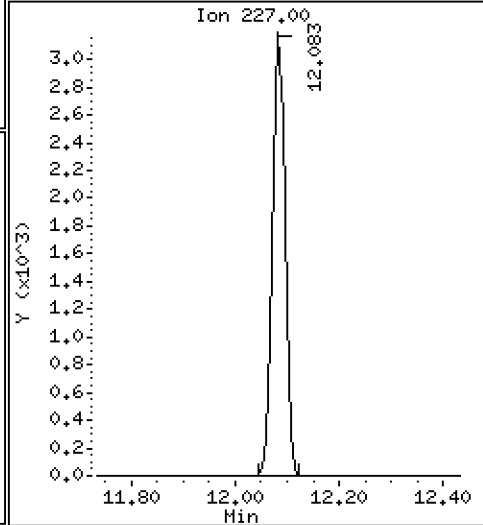
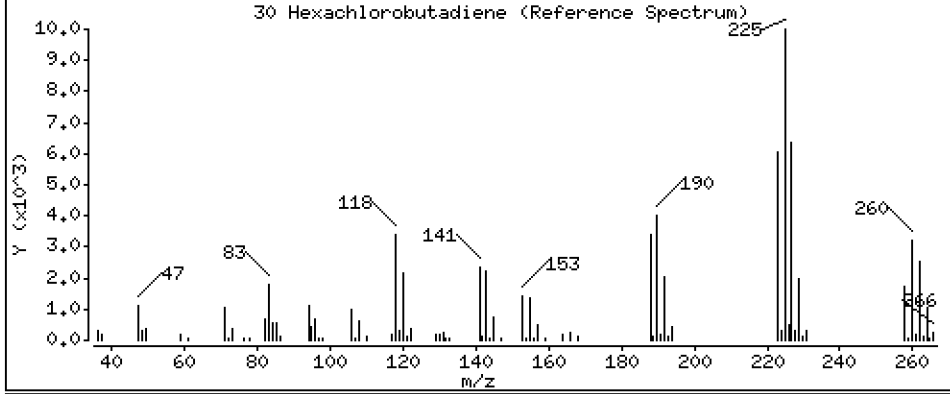
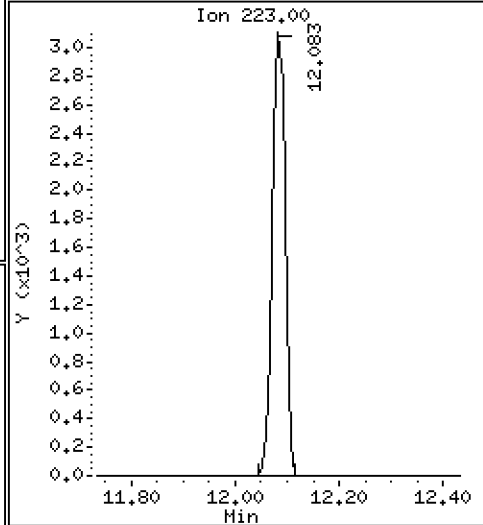
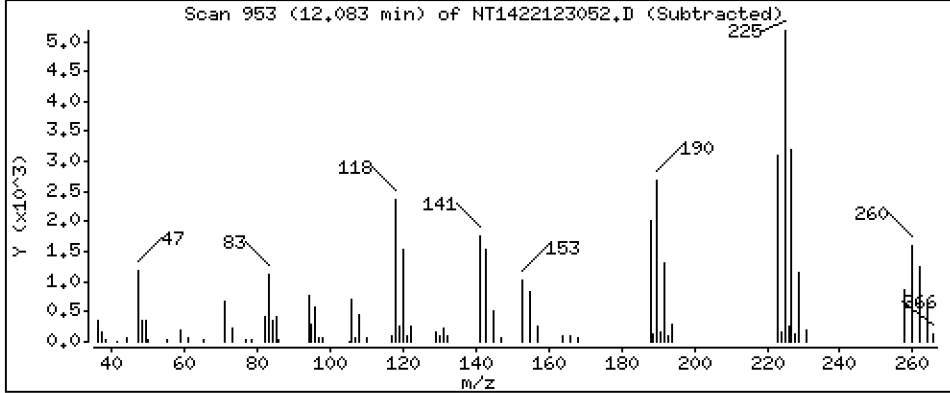
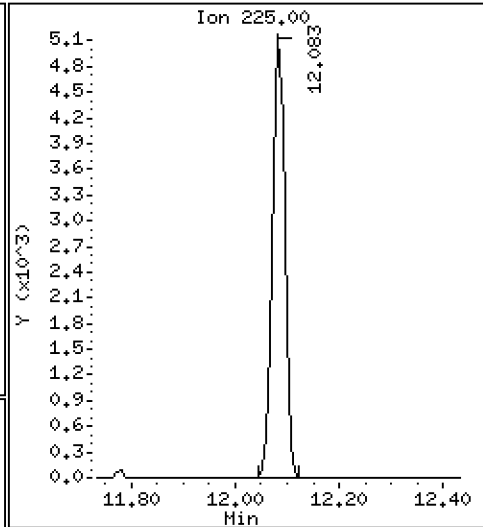
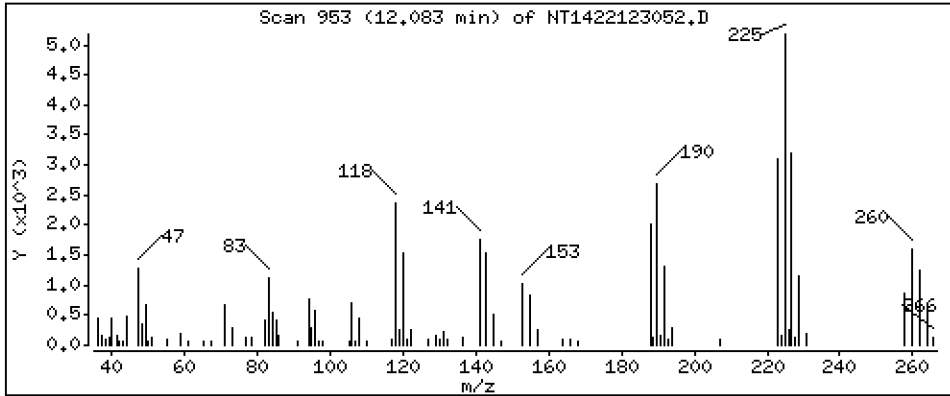
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4710 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

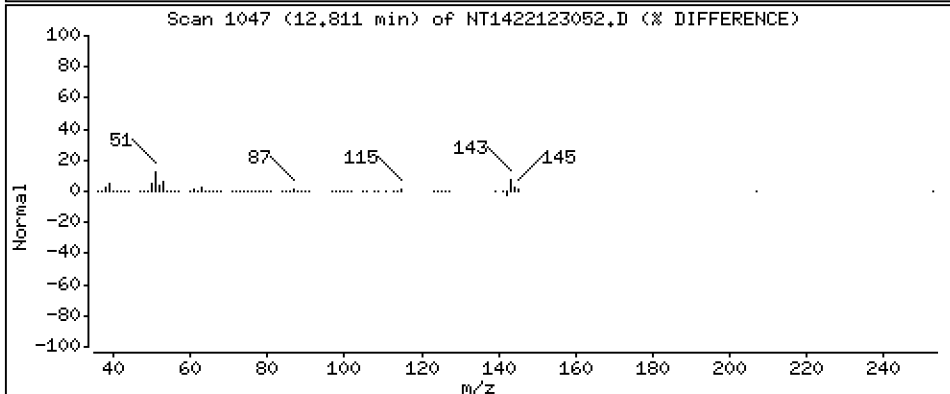
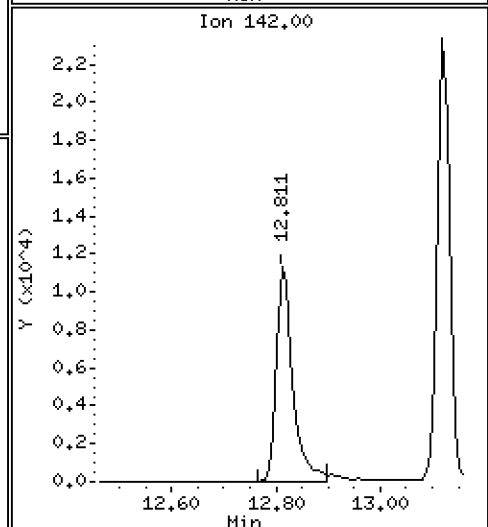
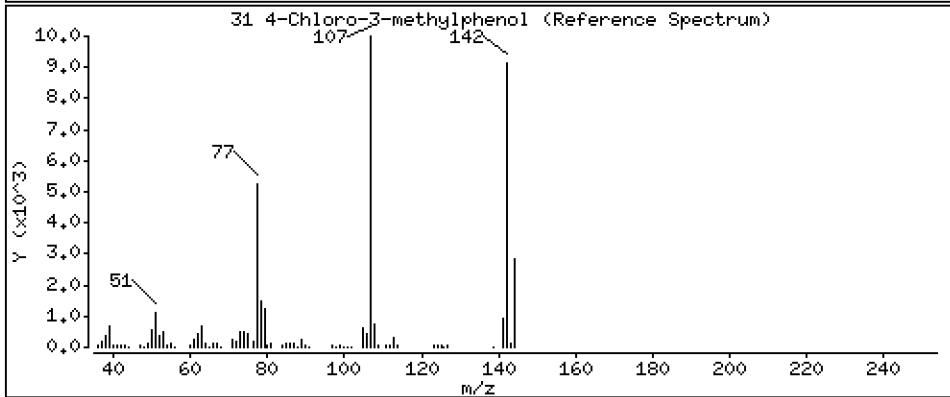
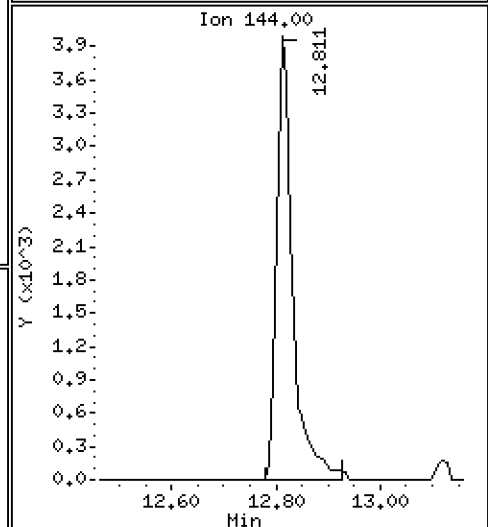
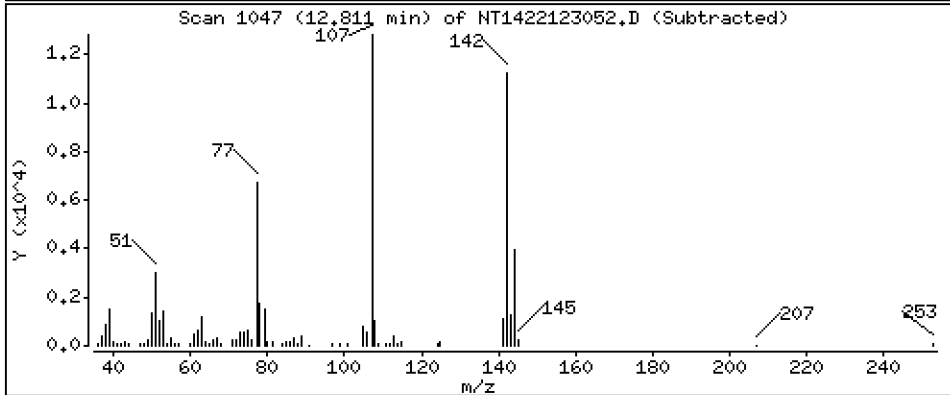
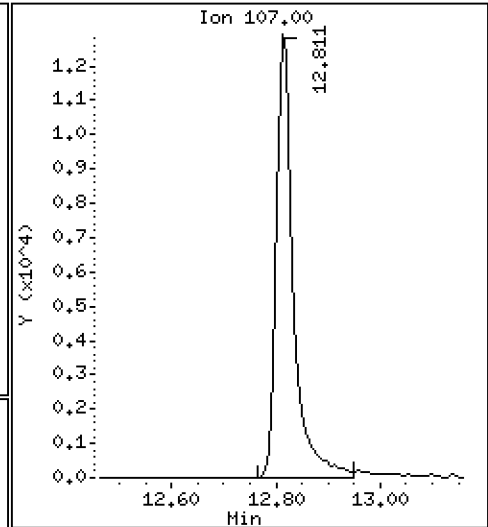
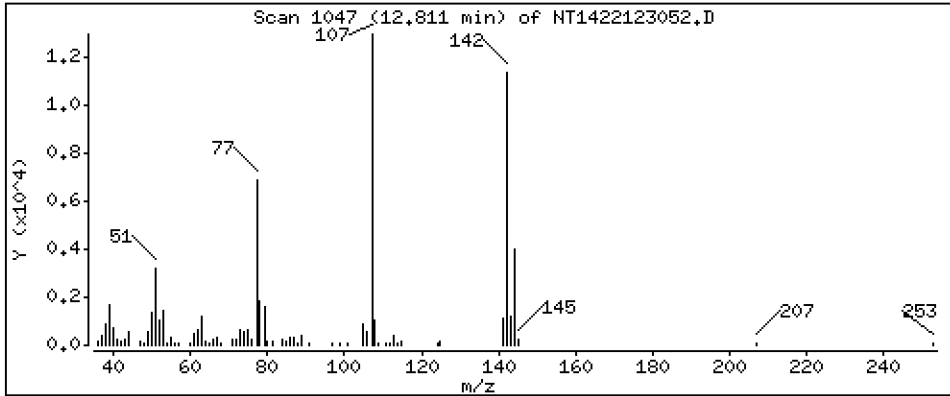
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9524 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

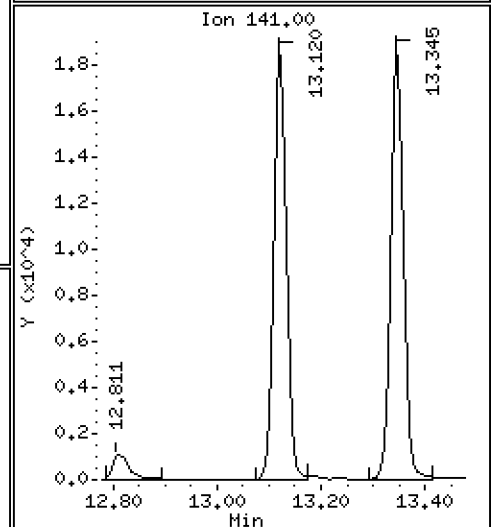
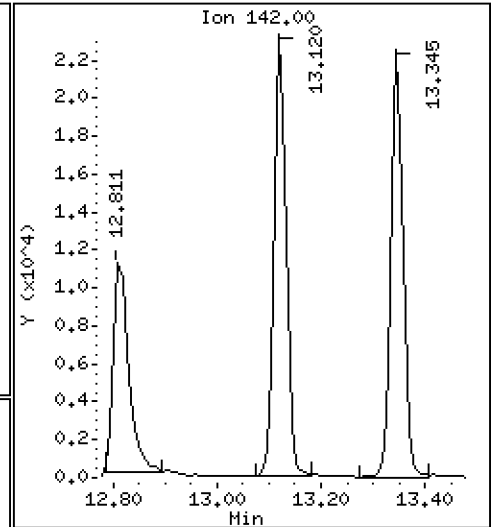
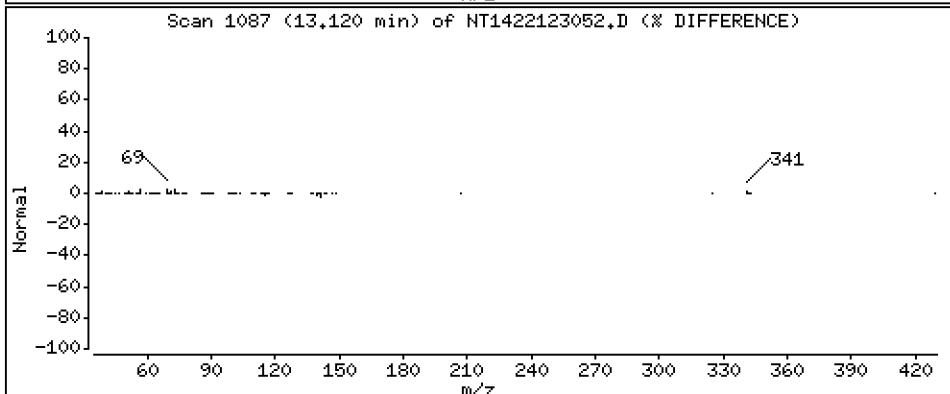
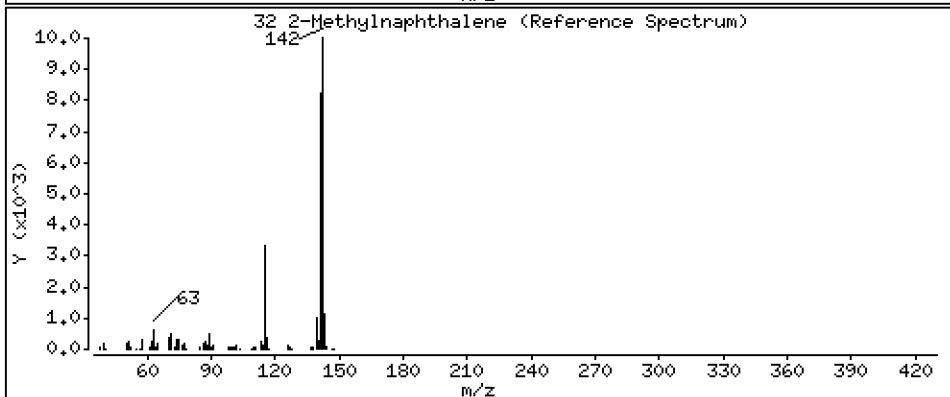
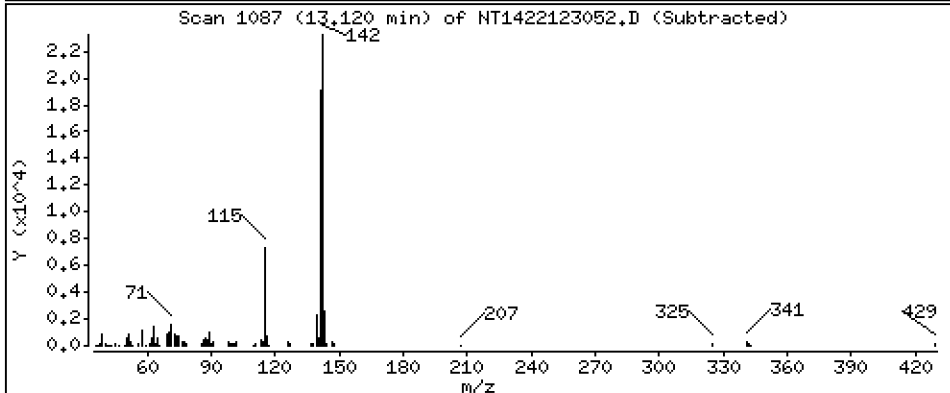
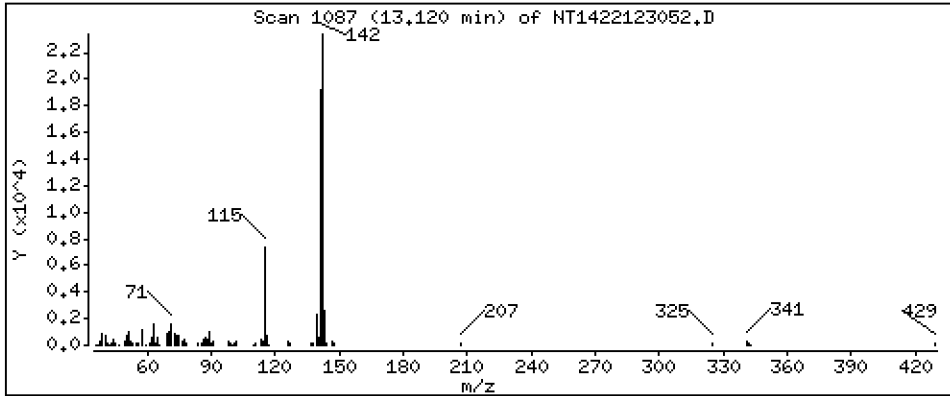
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4676 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

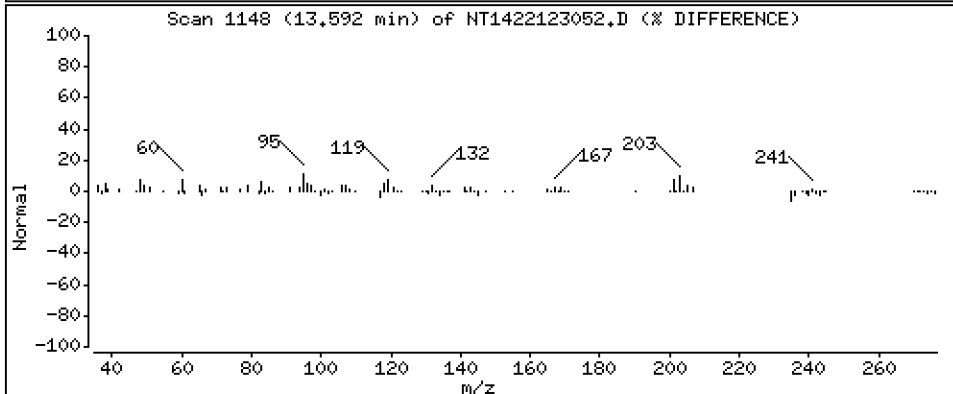
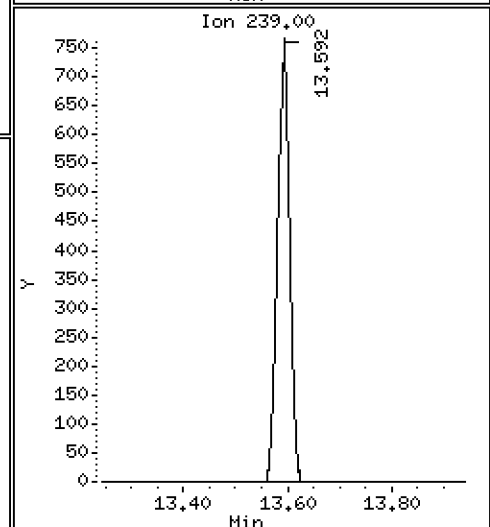
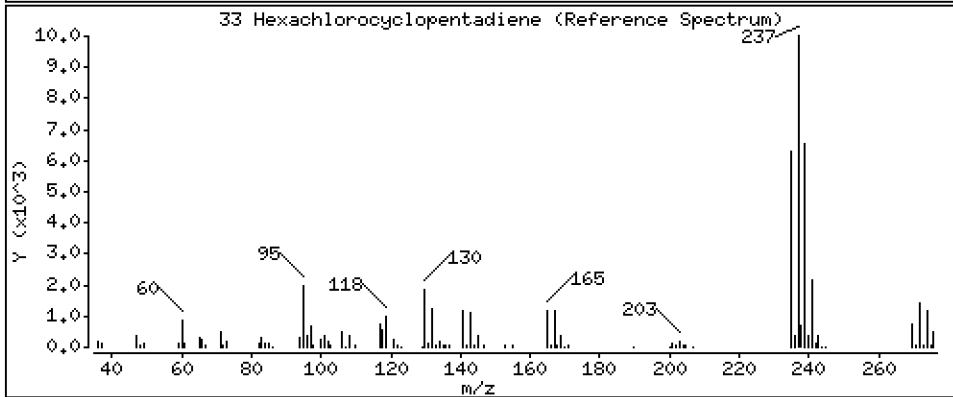
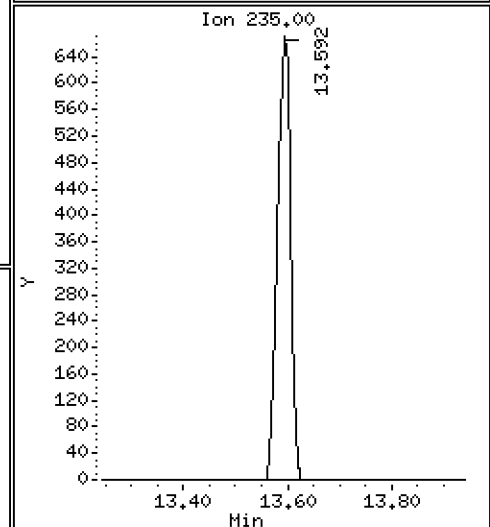
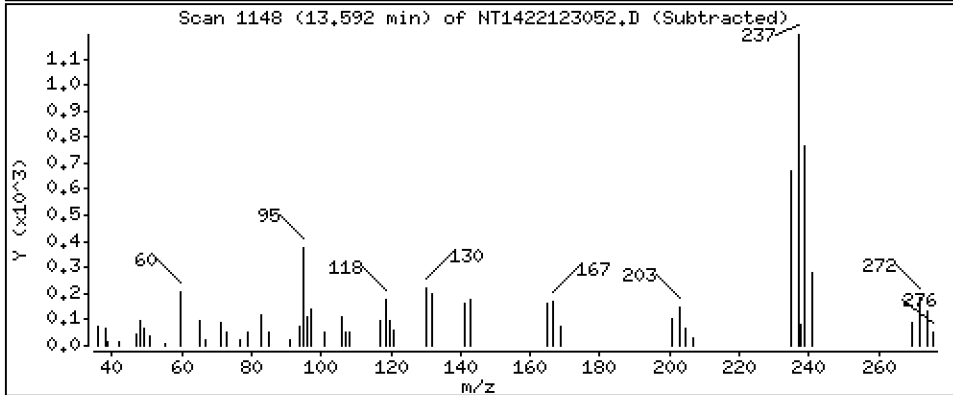
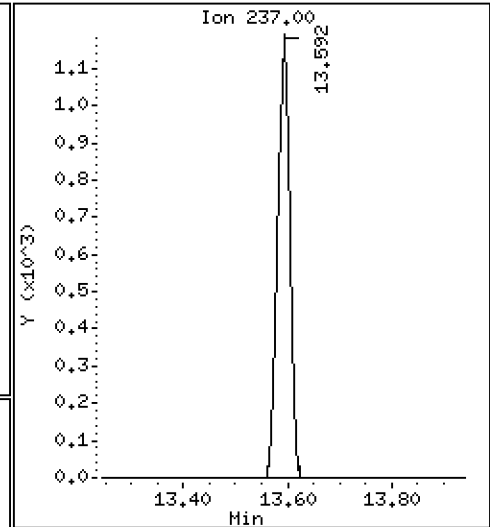
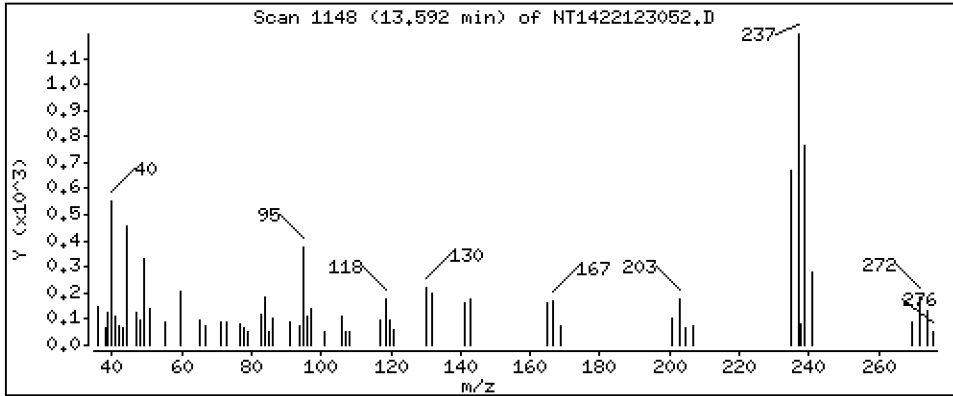
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,1074 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

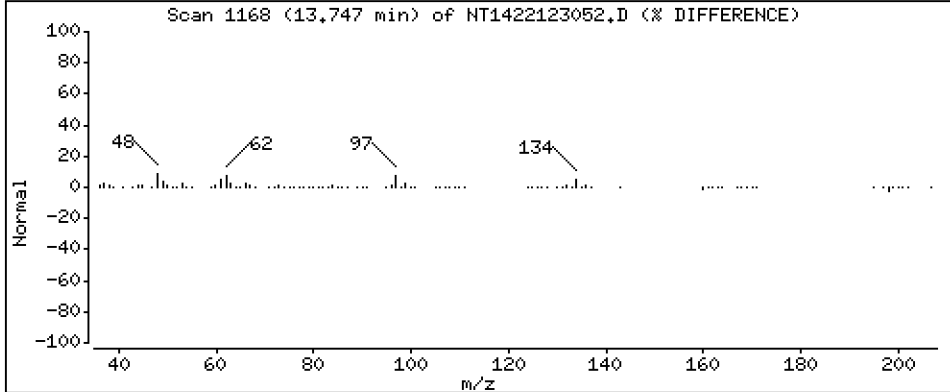
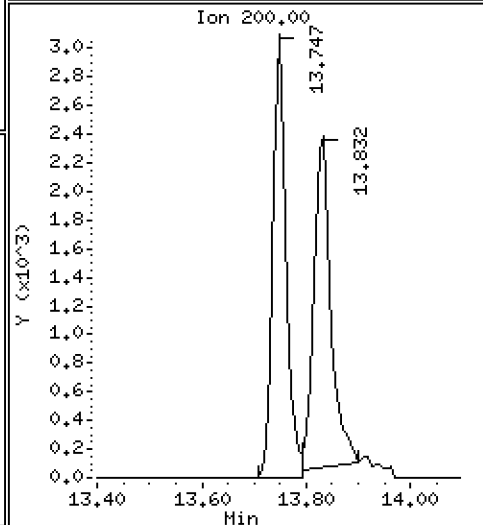
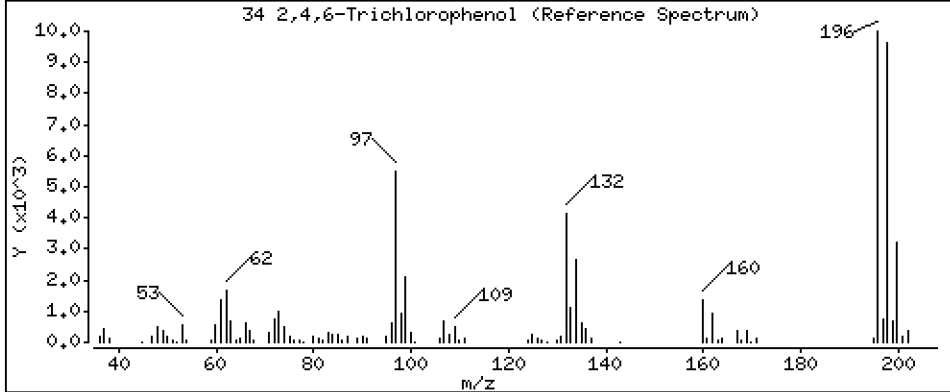
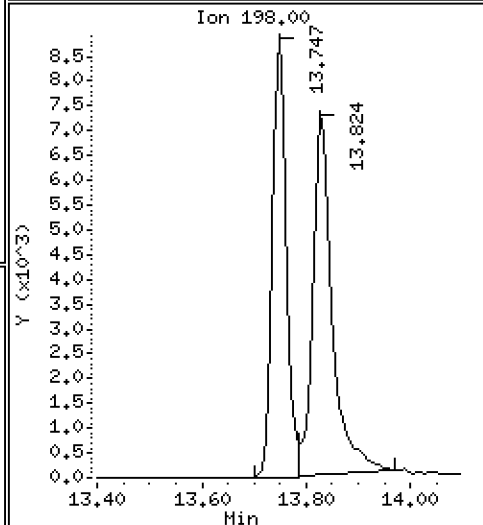
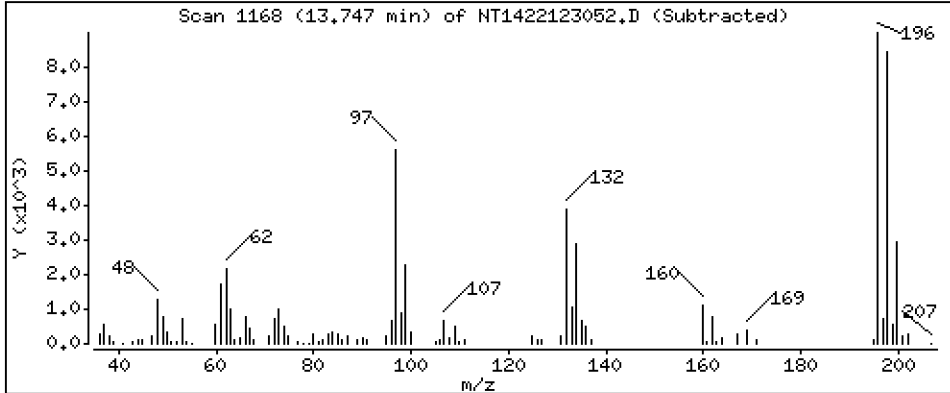
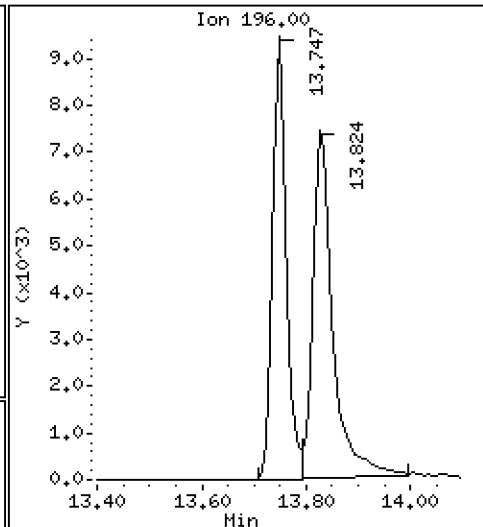
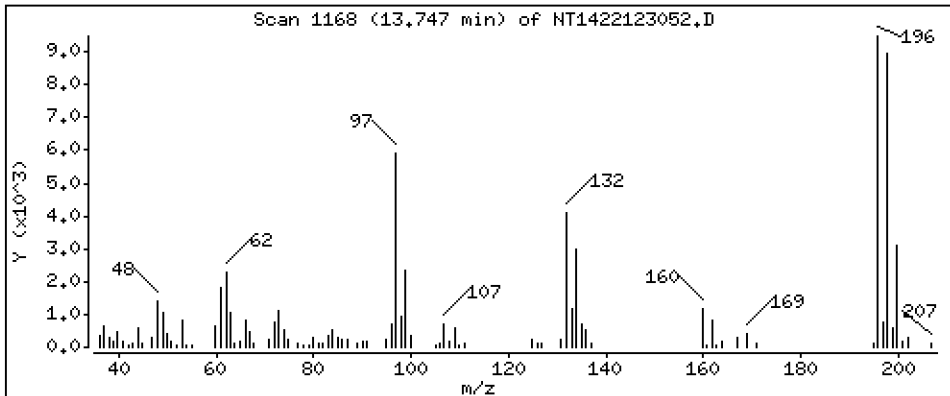
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8903 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

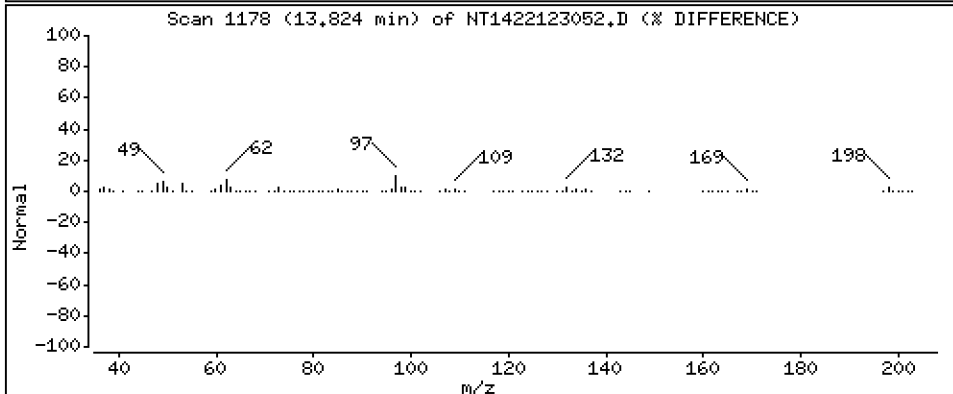
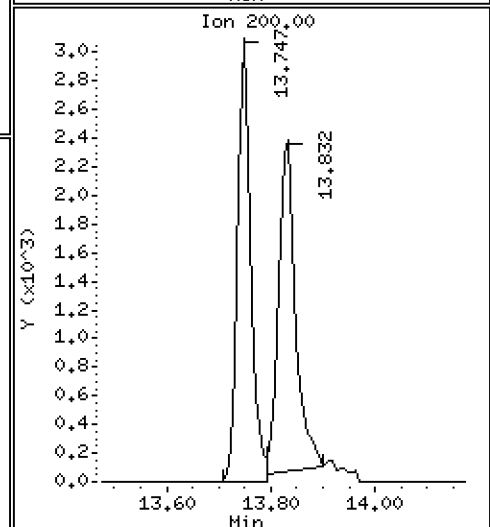
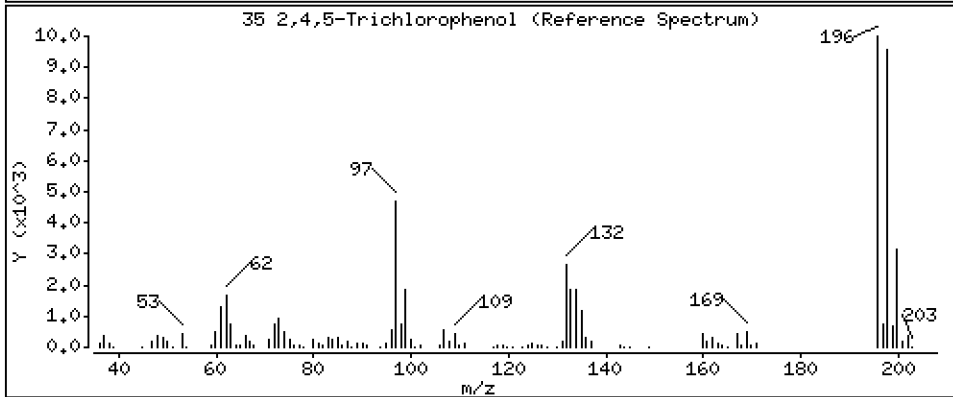
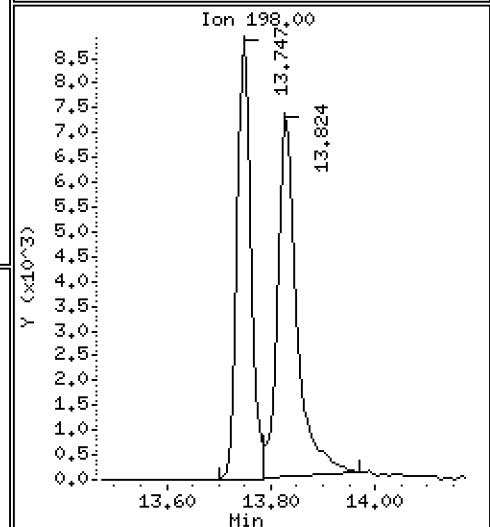
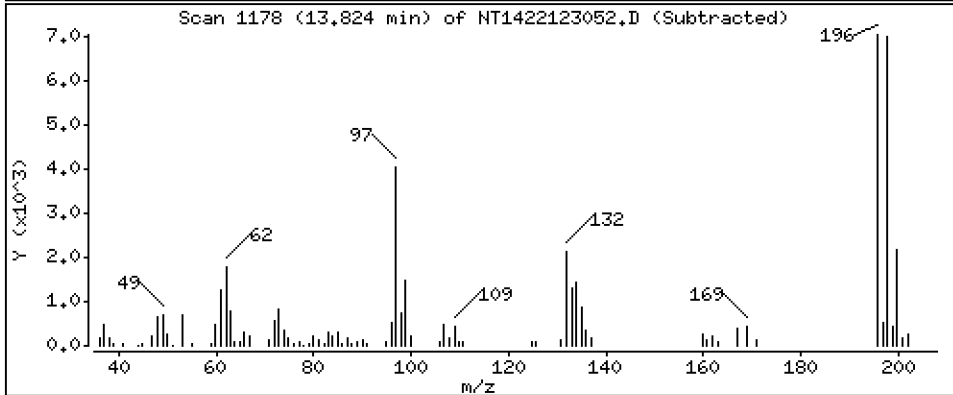
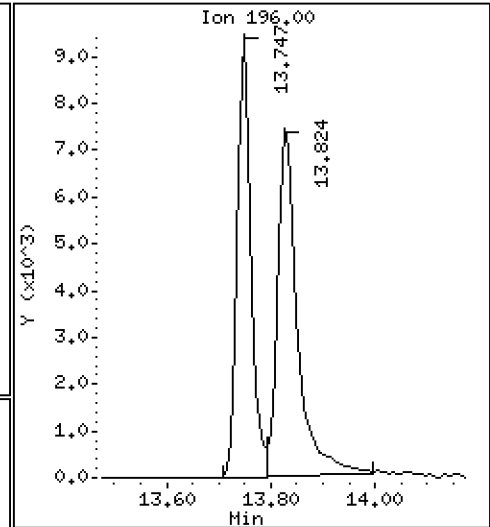
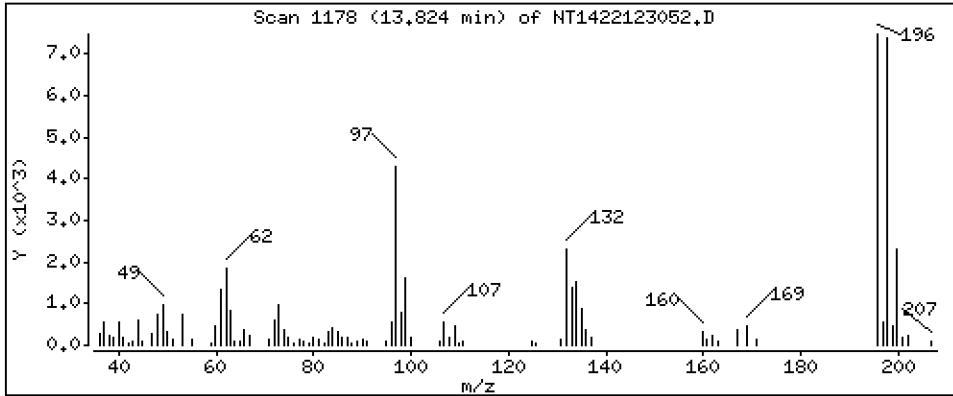
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8994 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

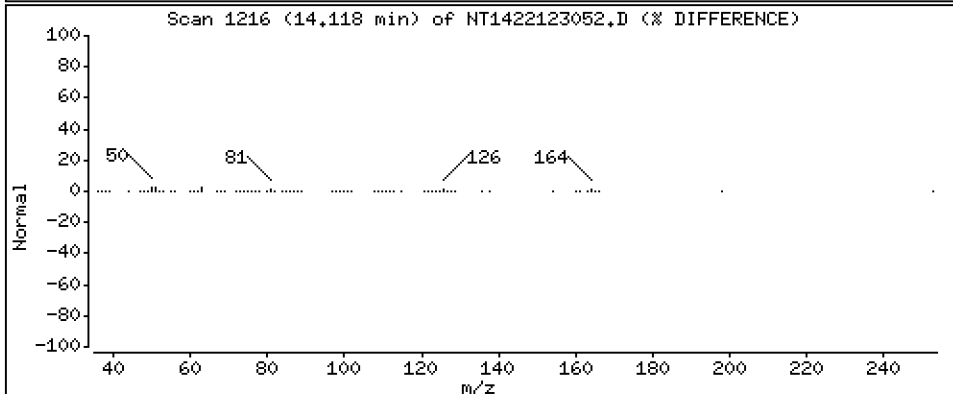
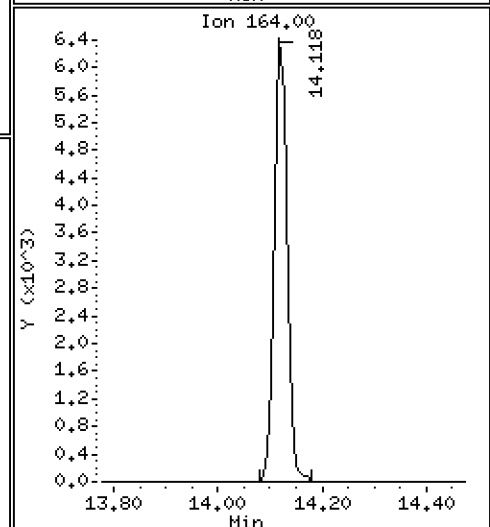
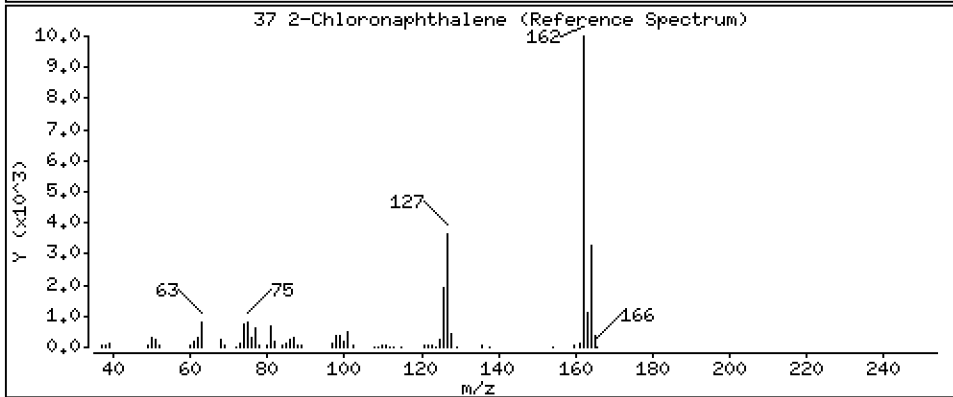
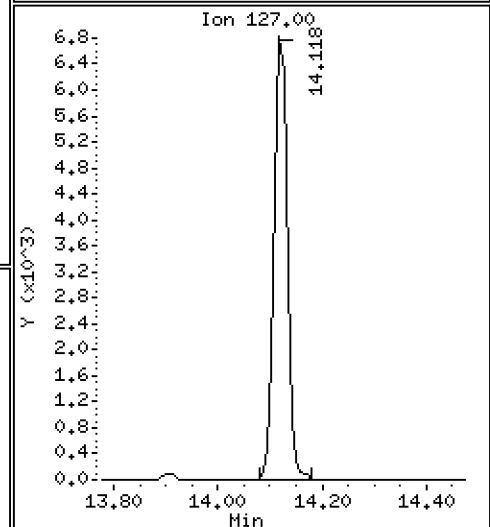
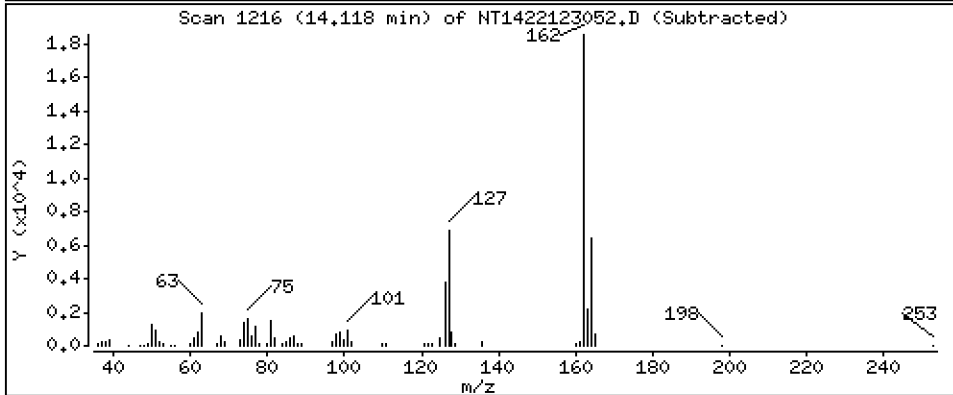
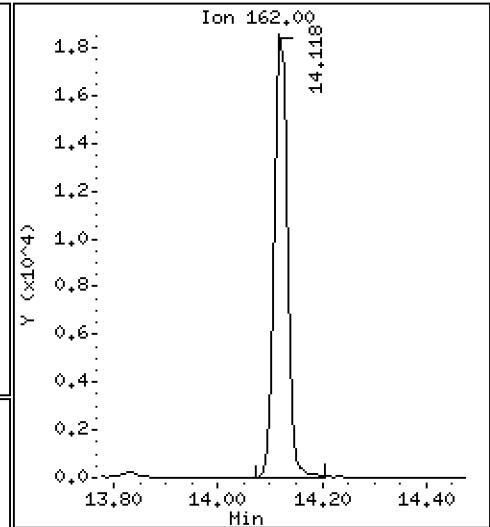
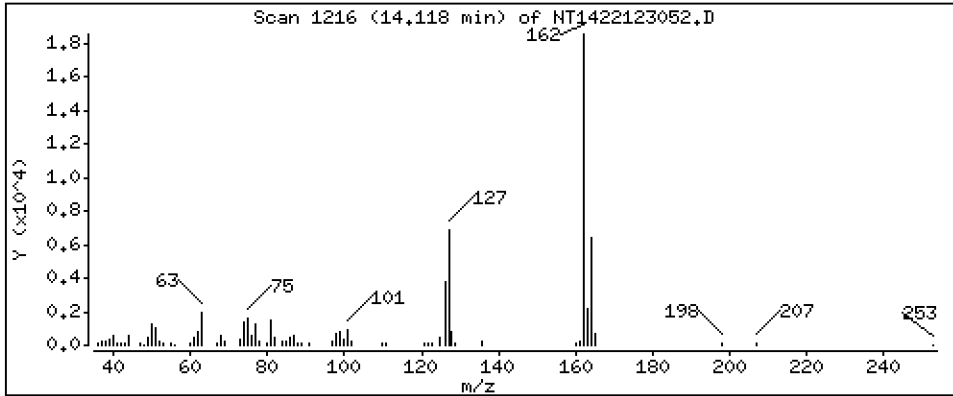
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.4882 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

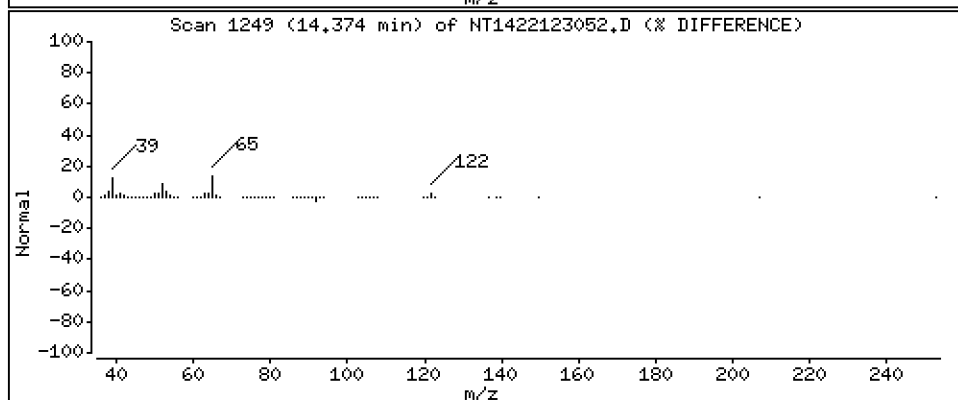
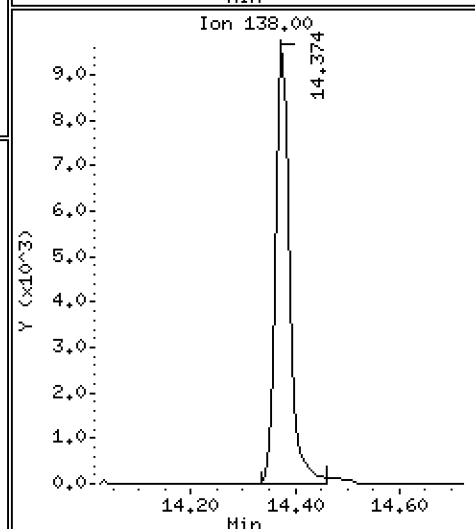
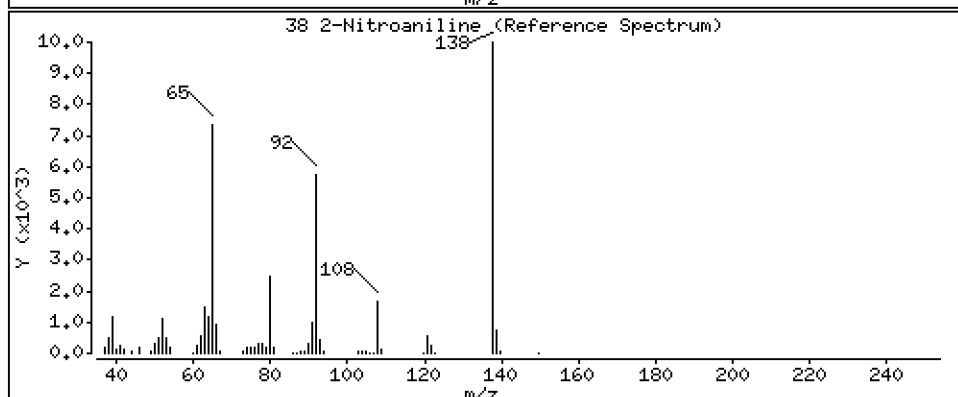
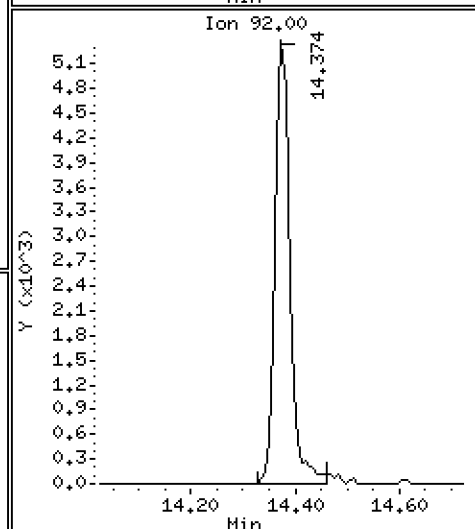
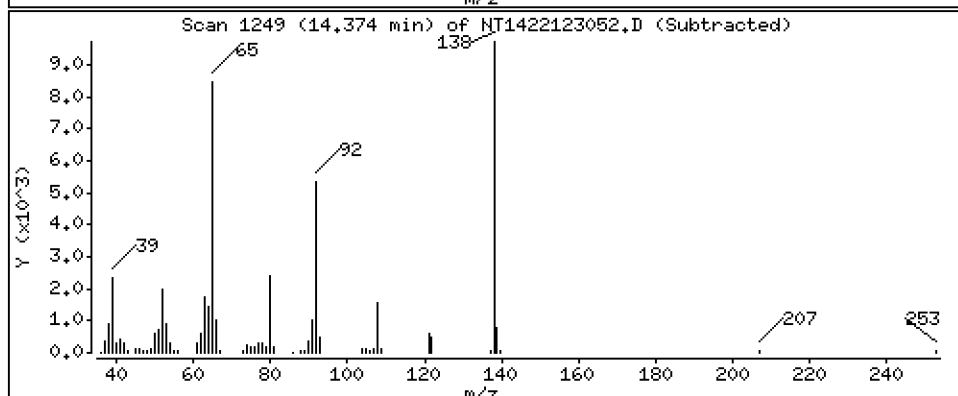
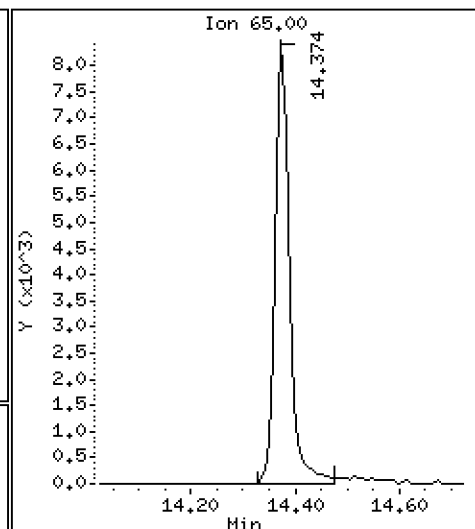
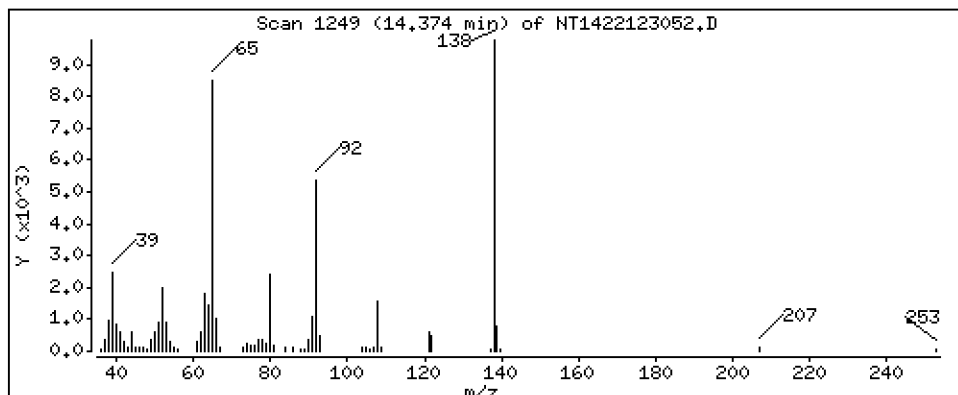
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,9202 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

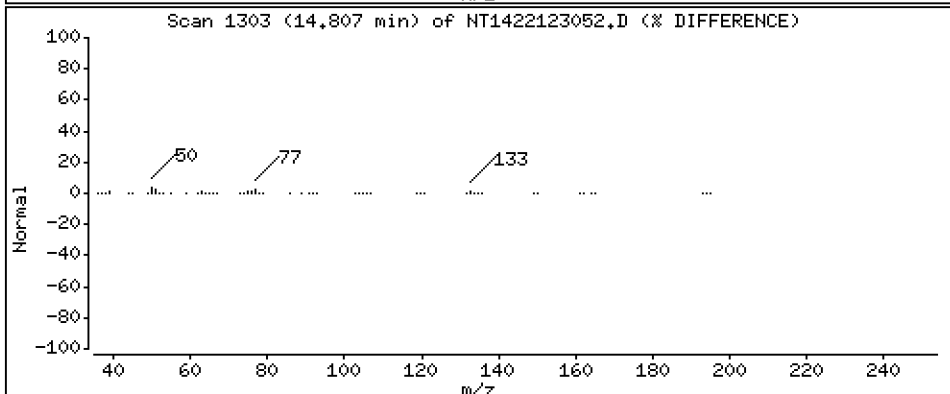
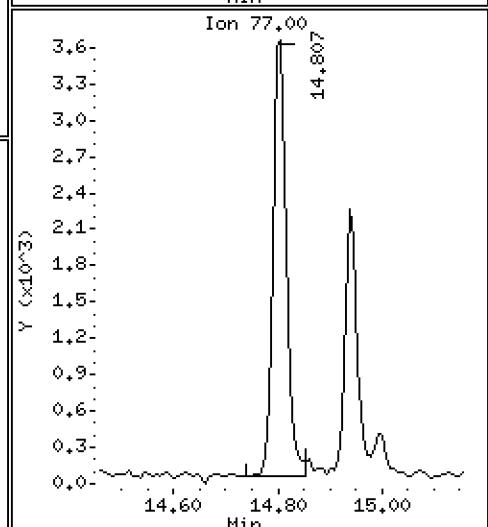
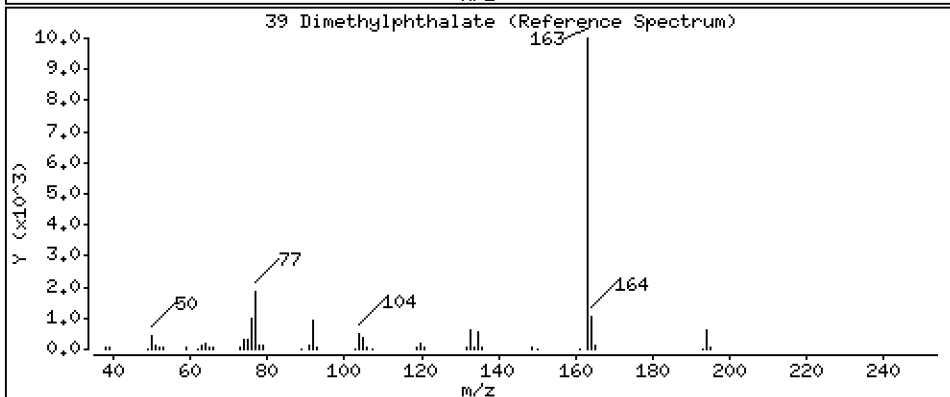
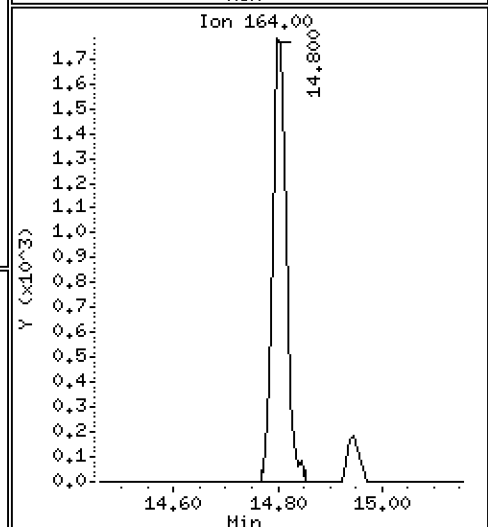
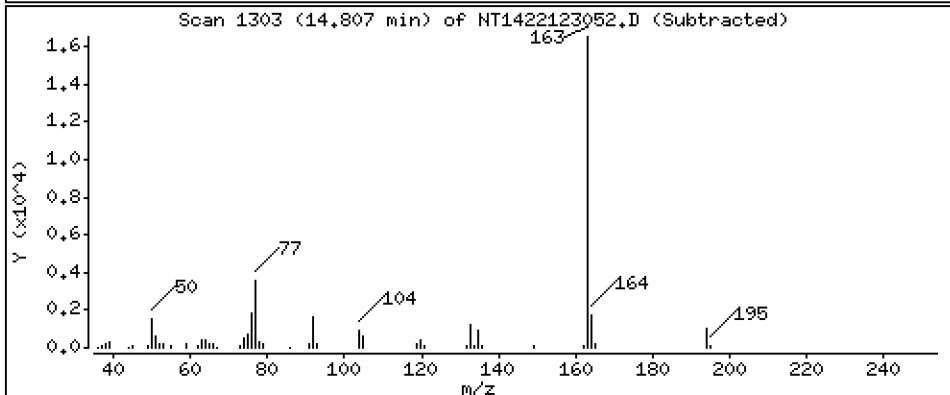
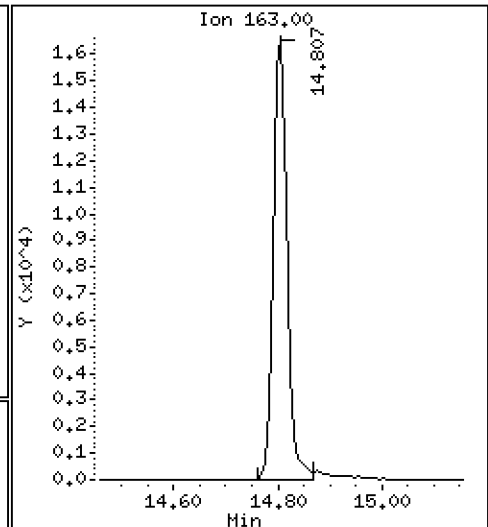
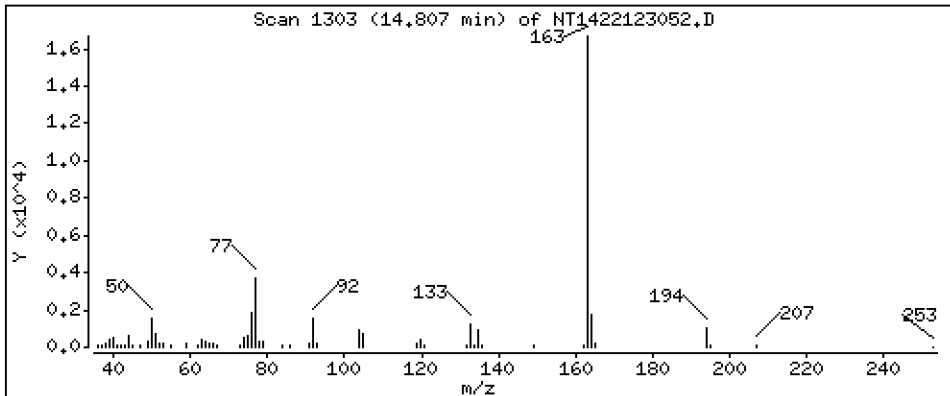
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,4656 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

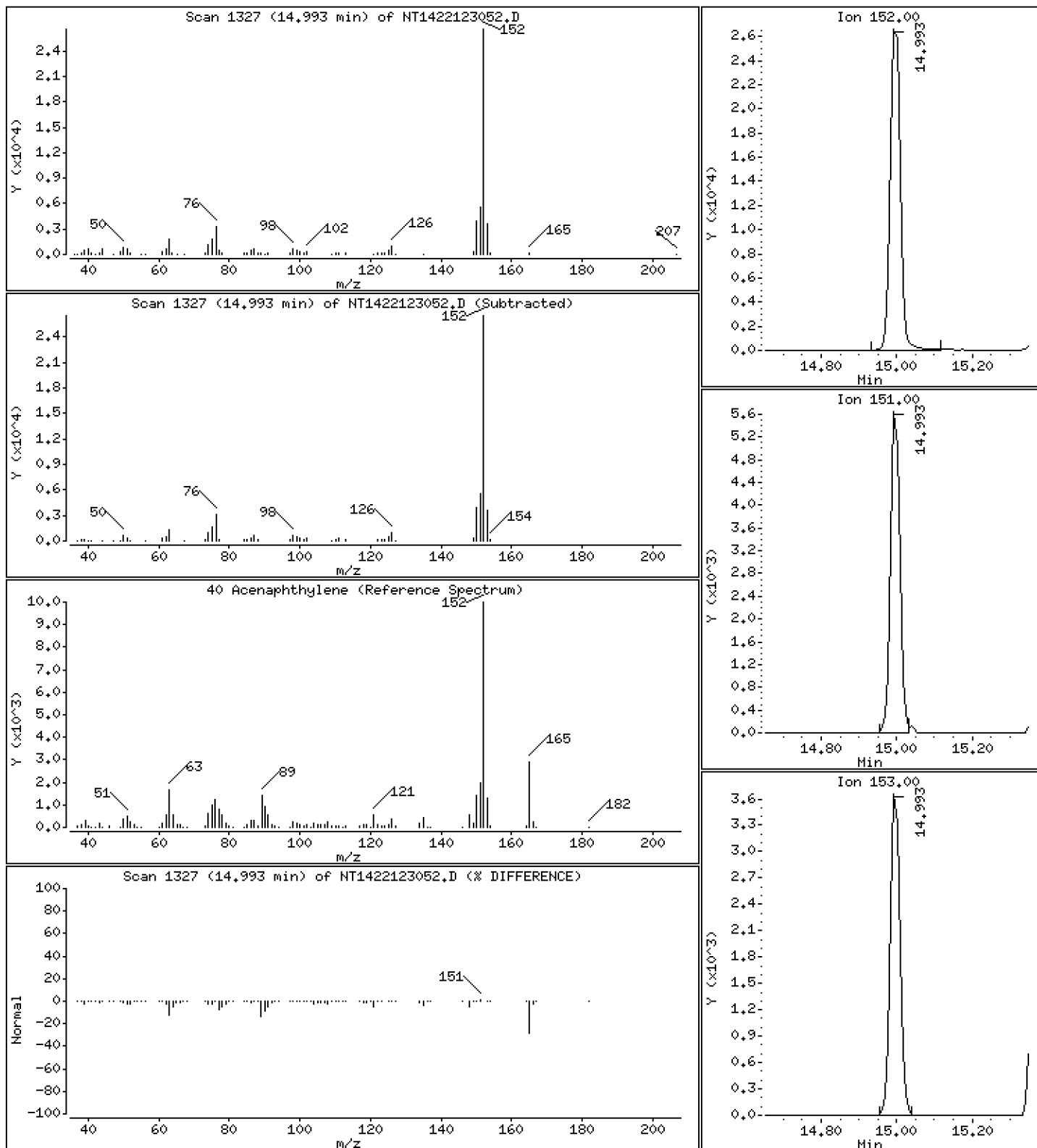
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5321 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

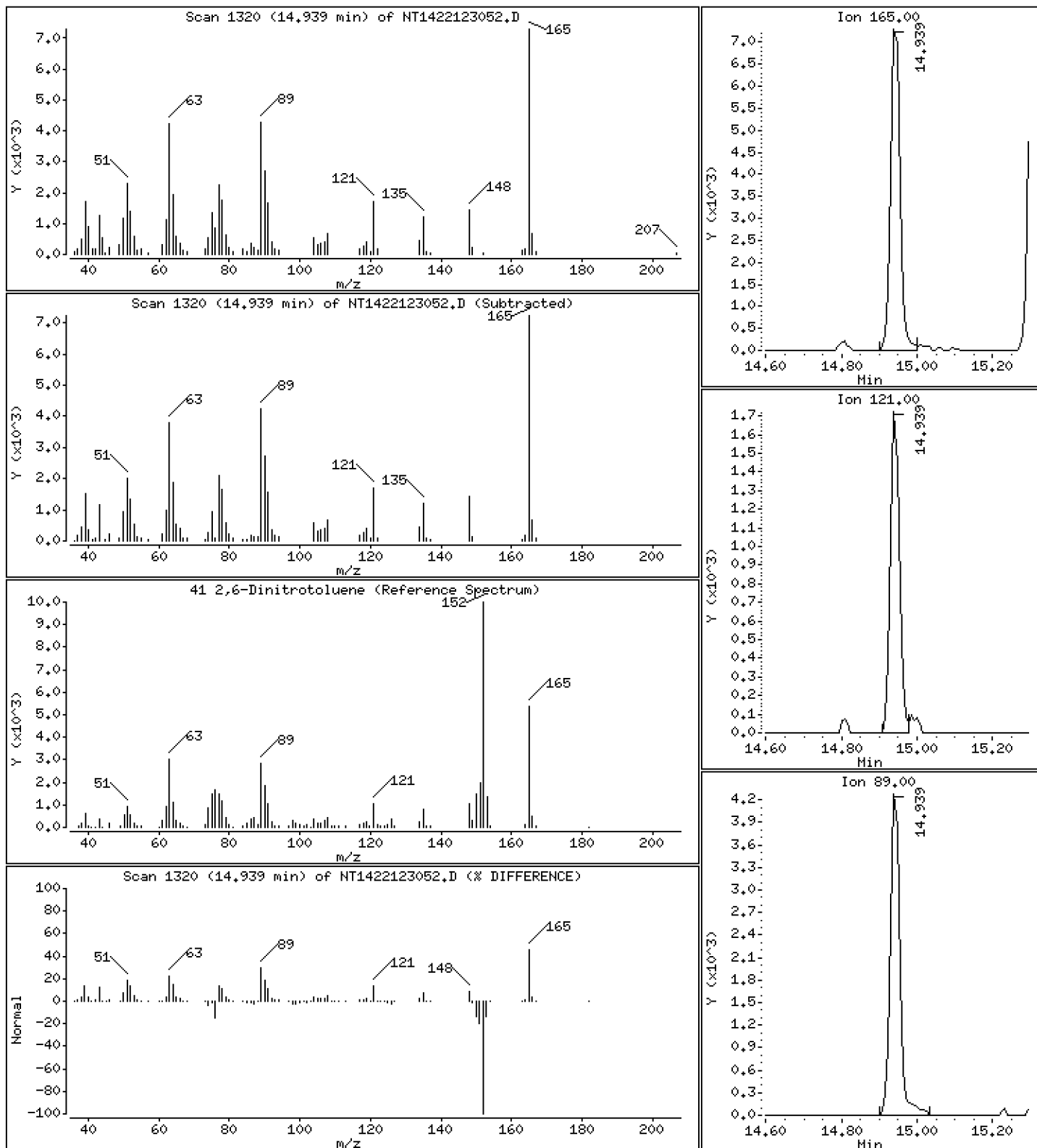
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,8515 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

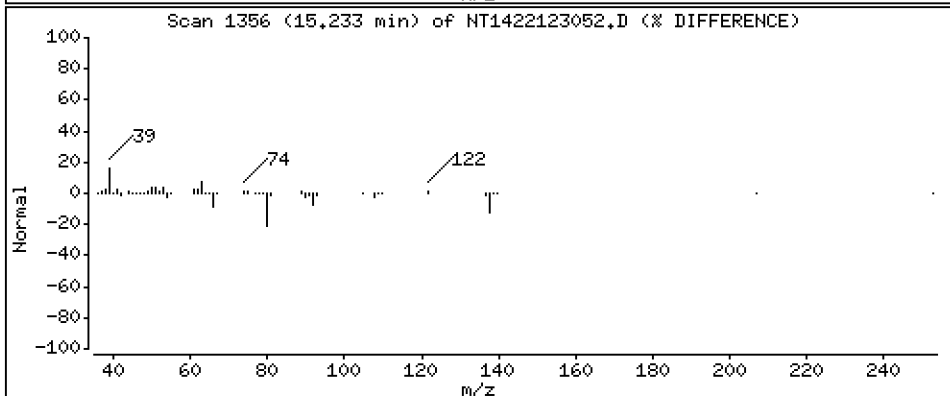
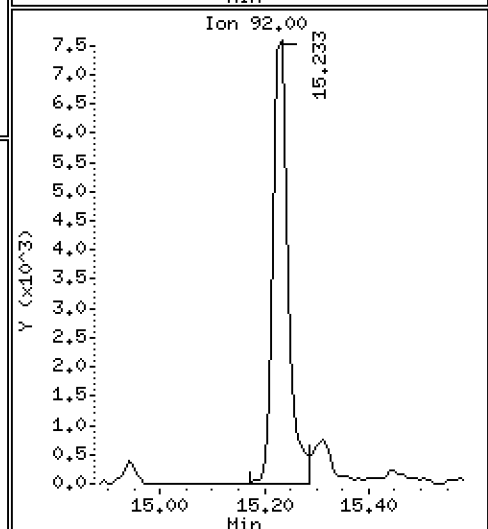
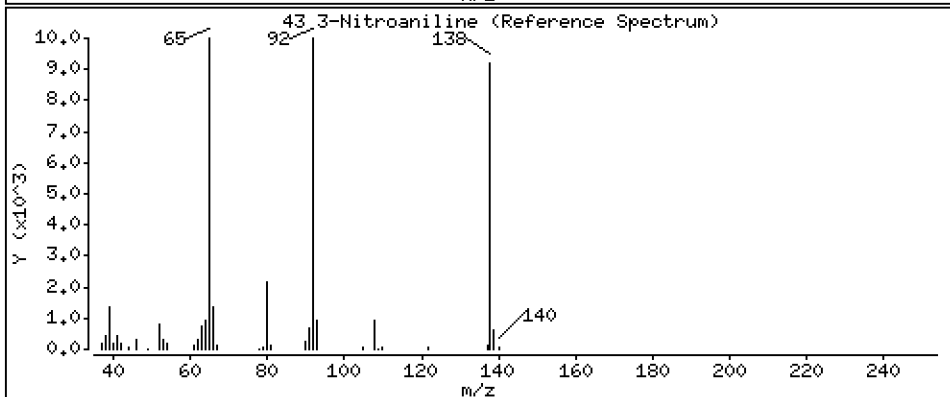
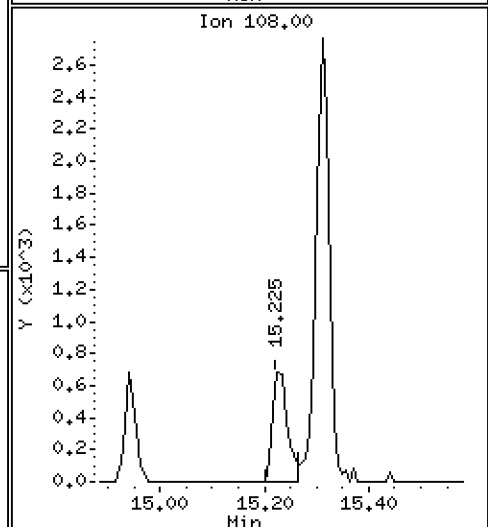
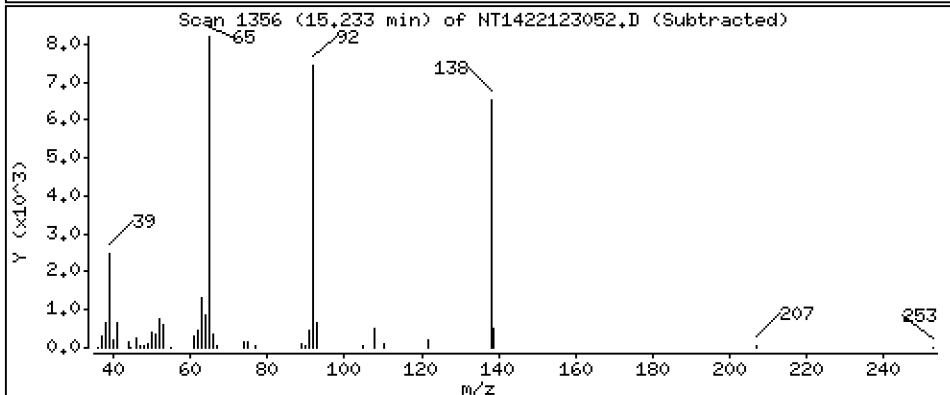
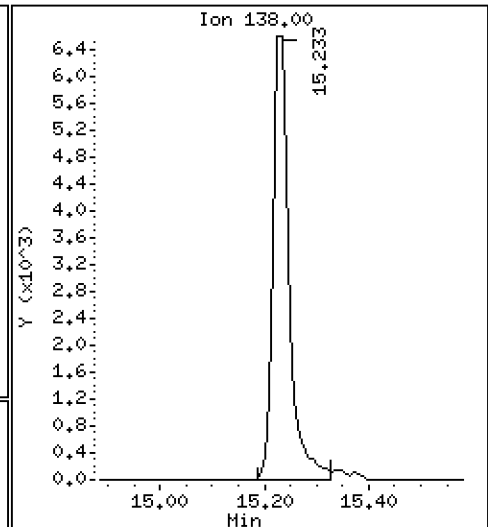
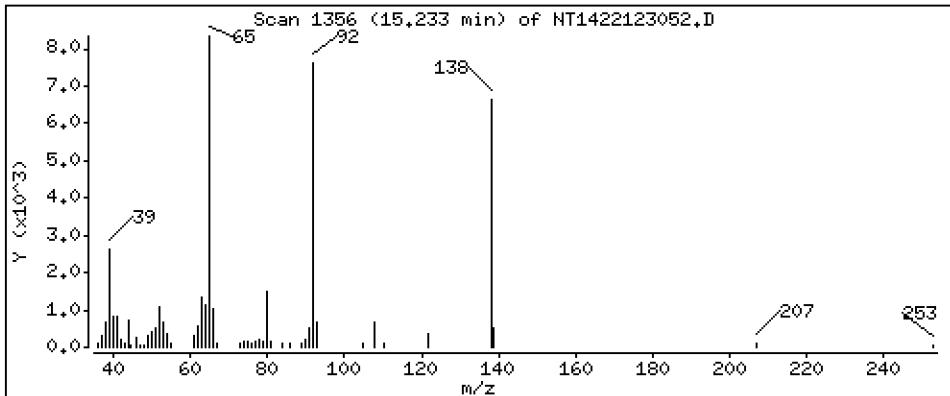
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,8004 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

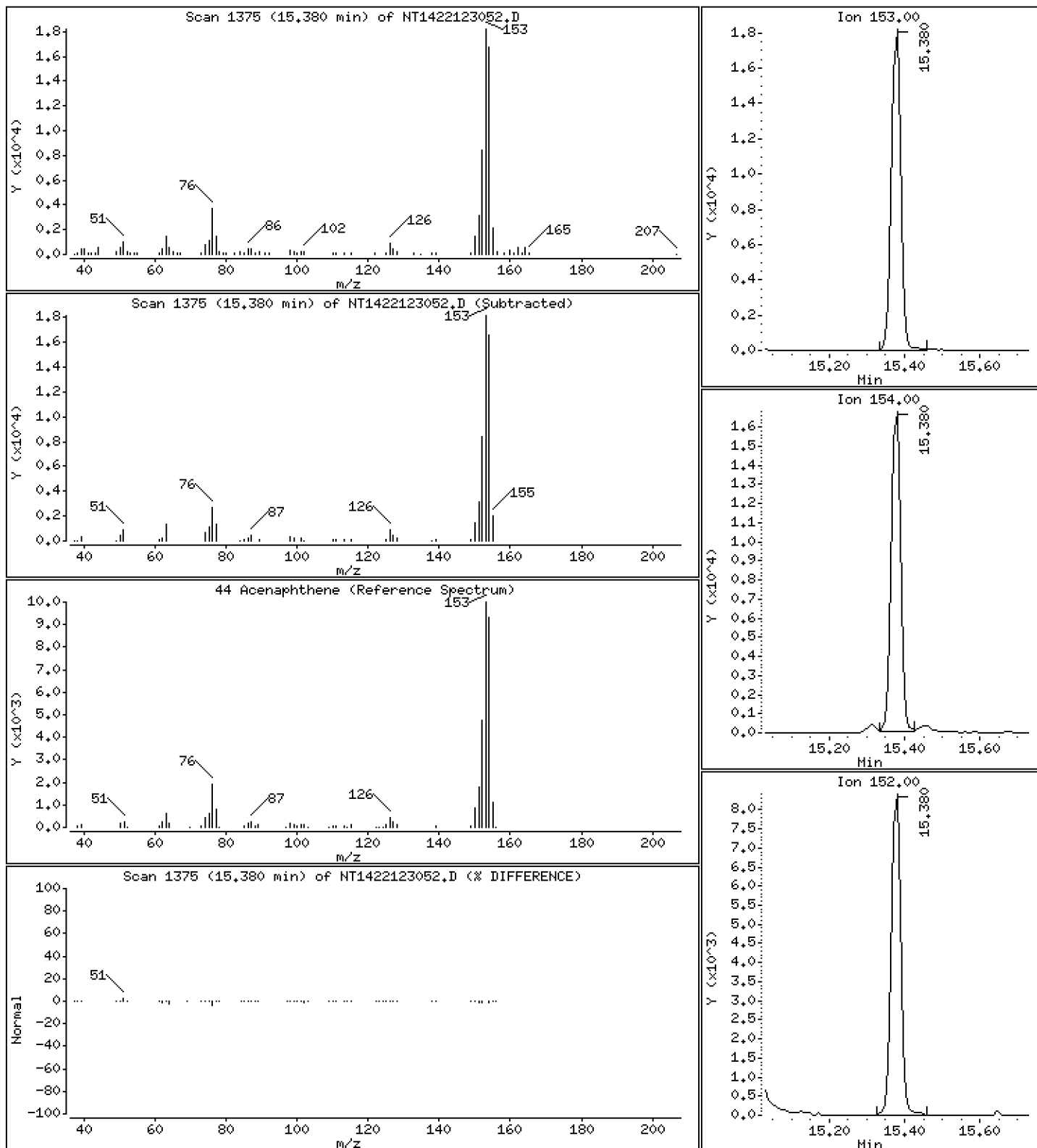
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,4966 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

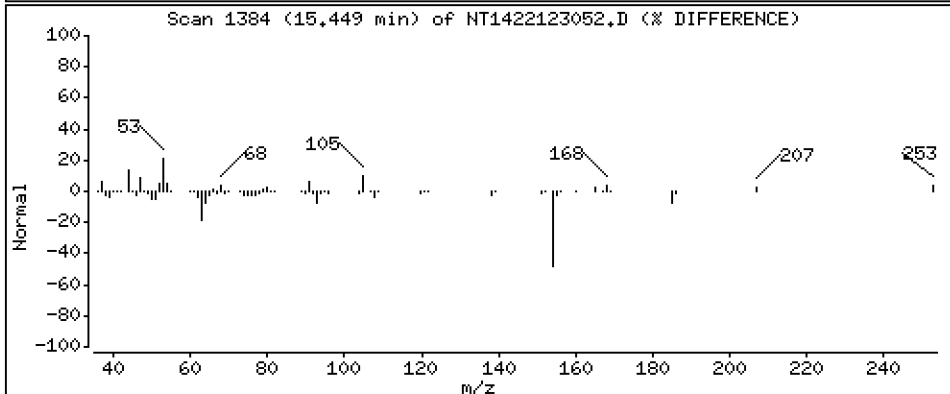
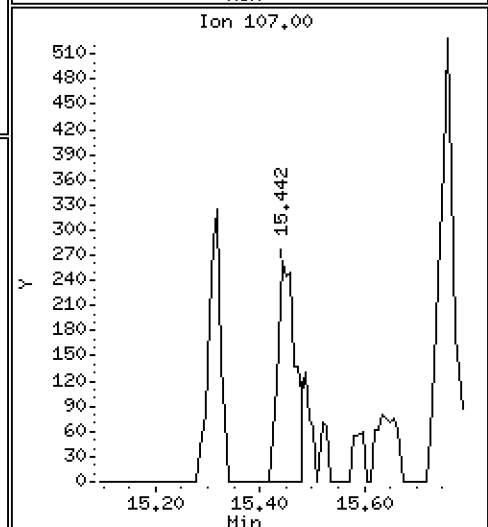
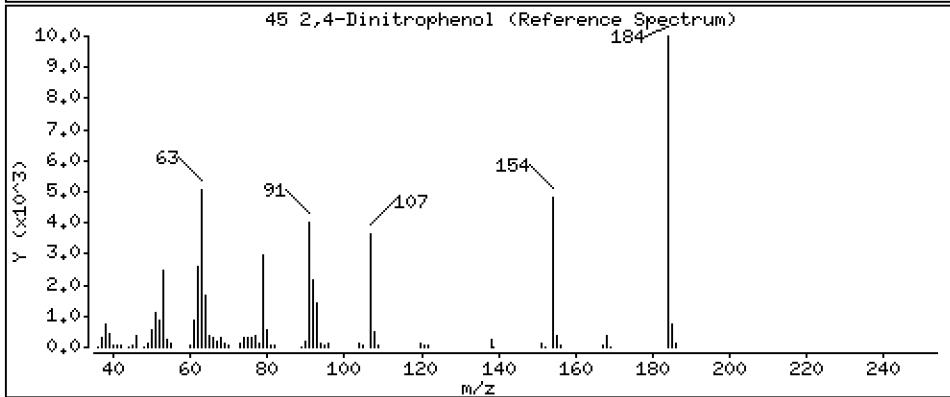
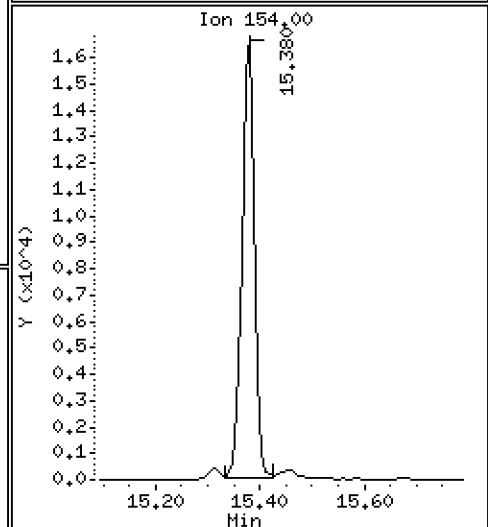
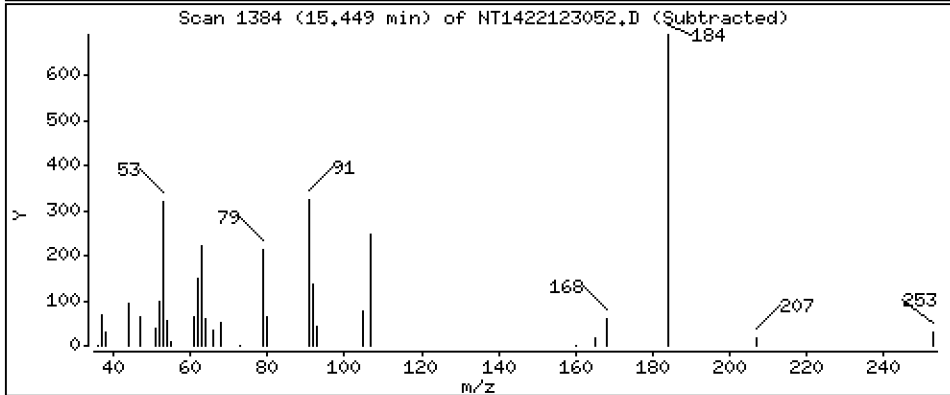
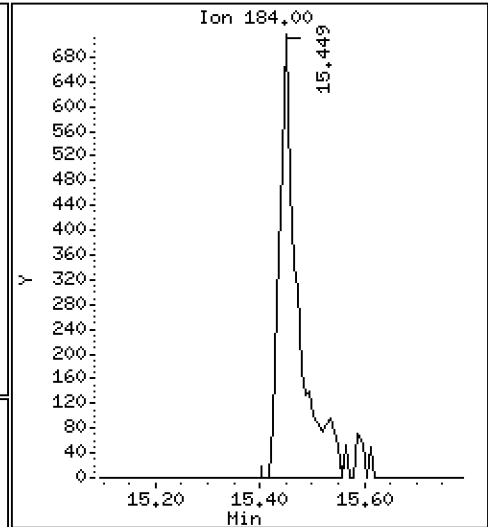
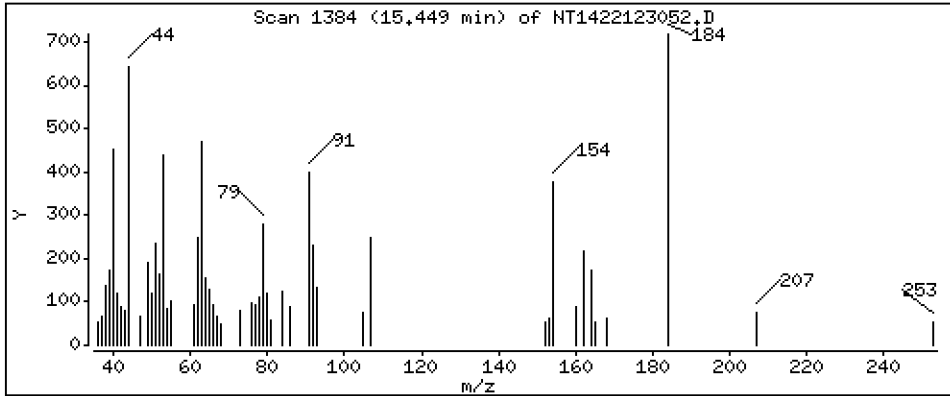
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1450 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

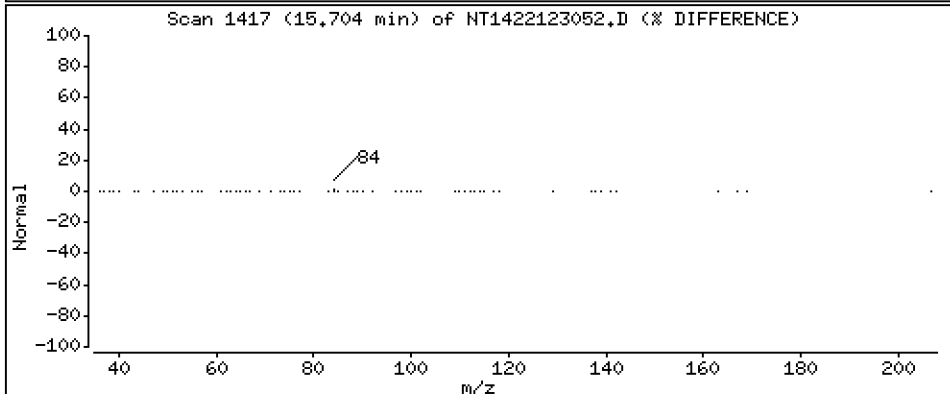
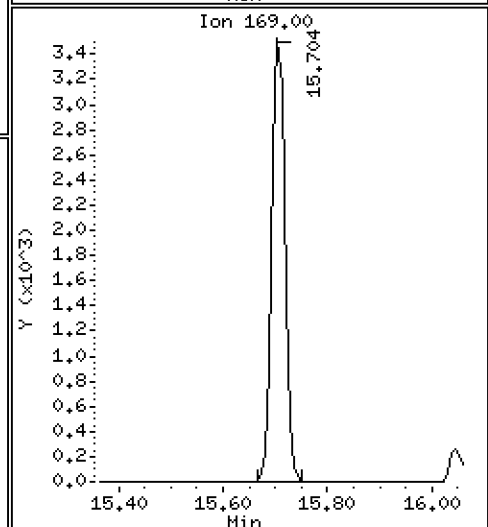
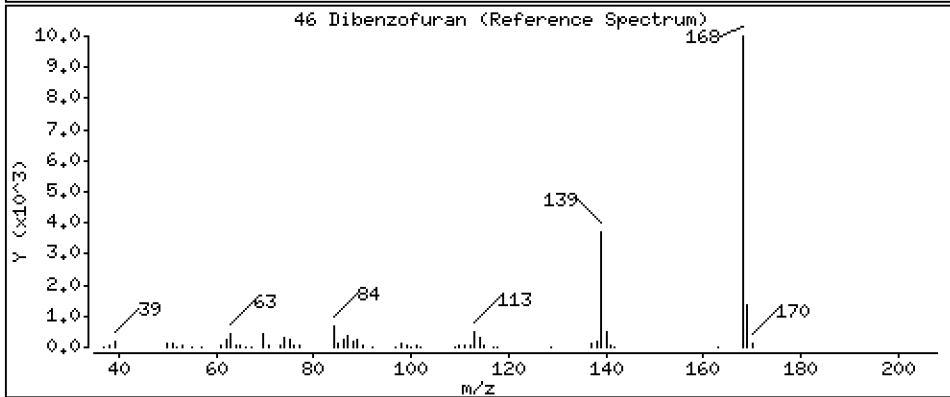
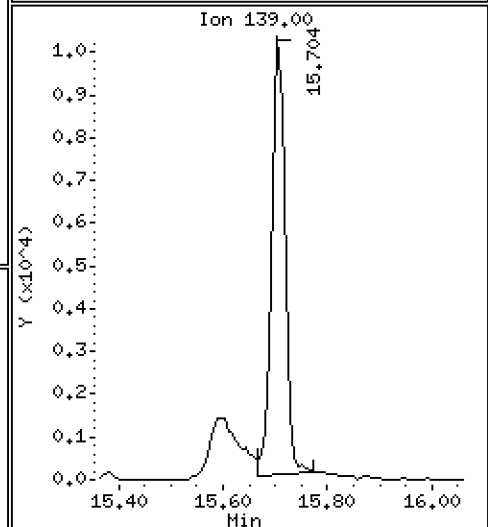
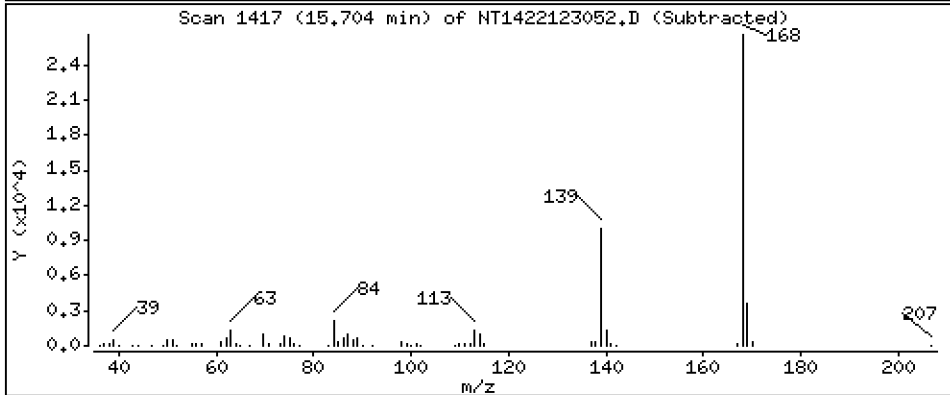
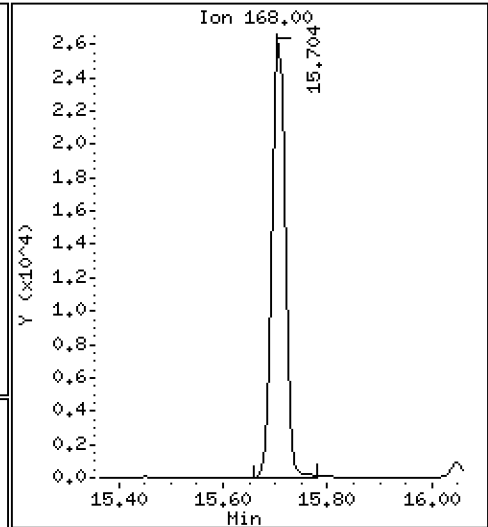
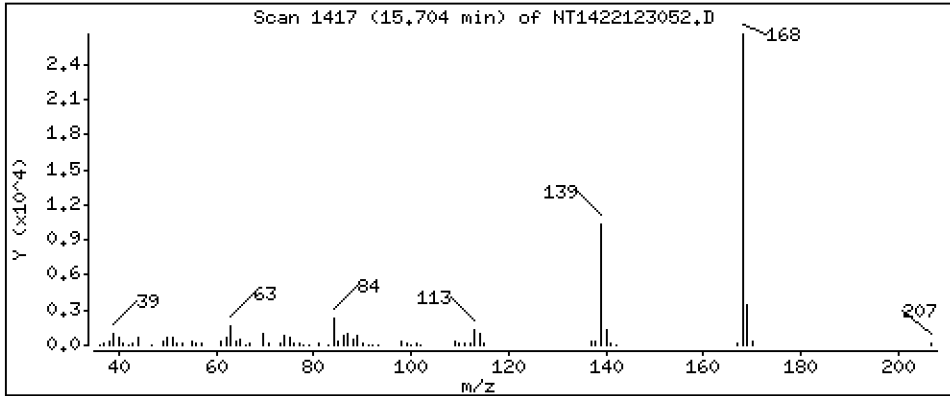
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,4927 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

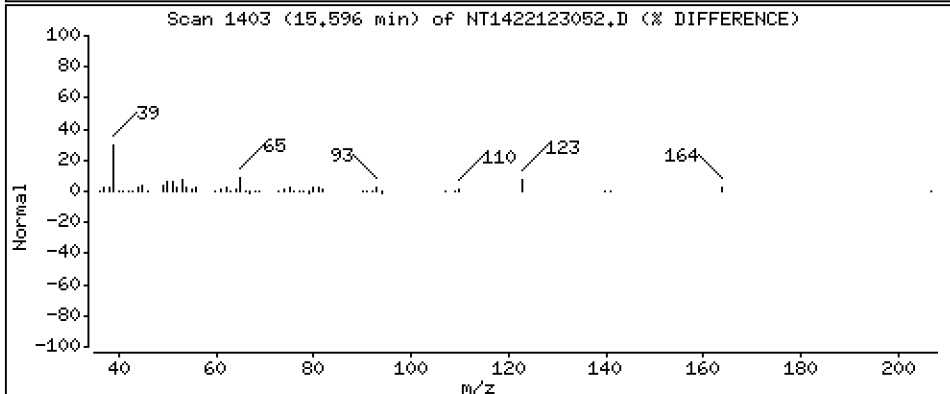
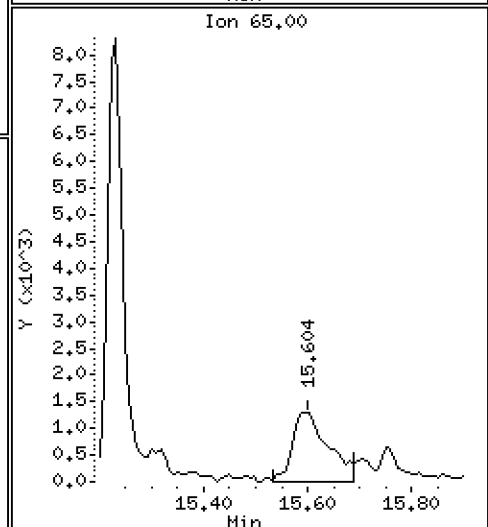
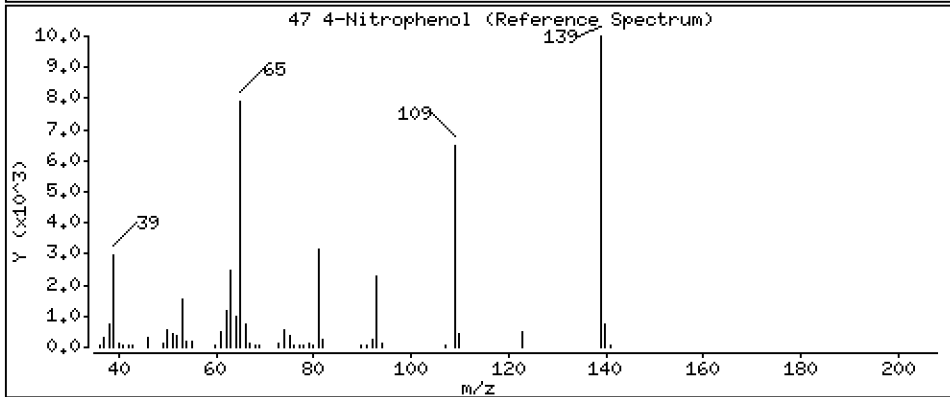
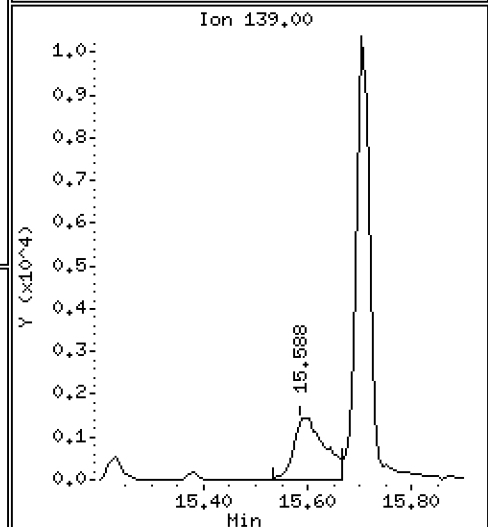
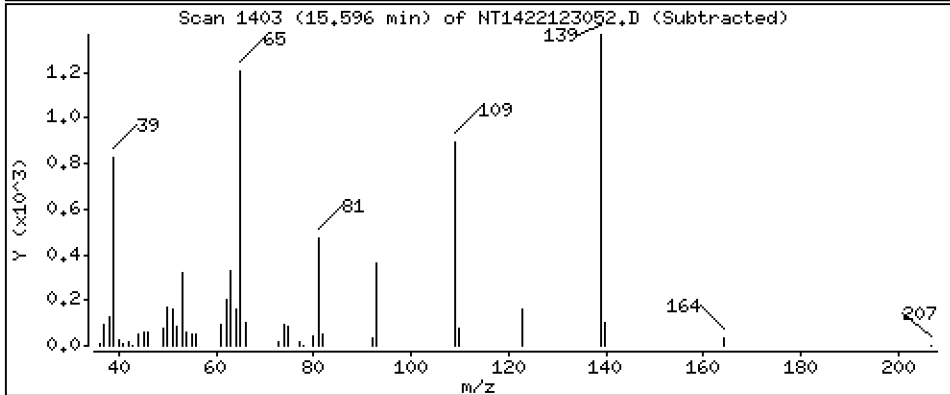
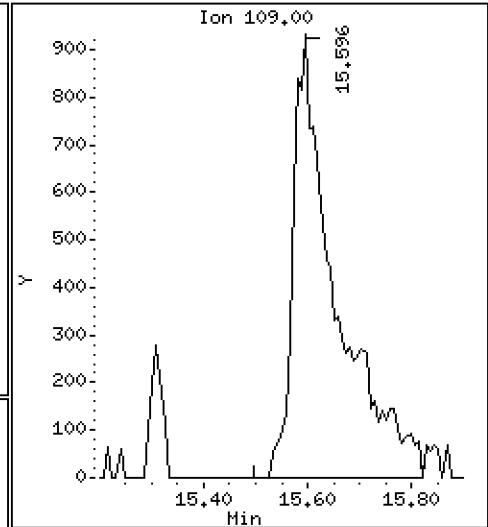
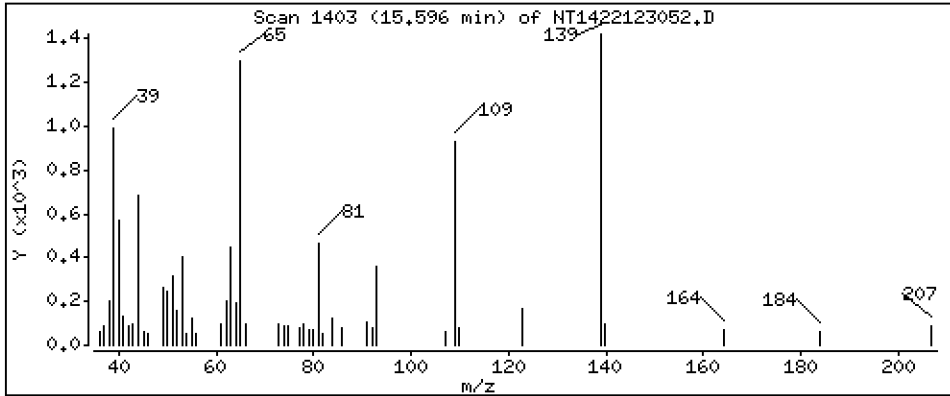
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,6475 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

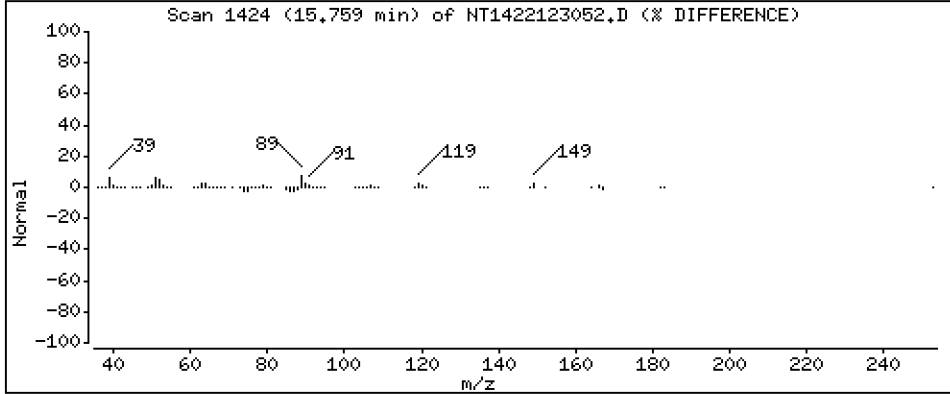
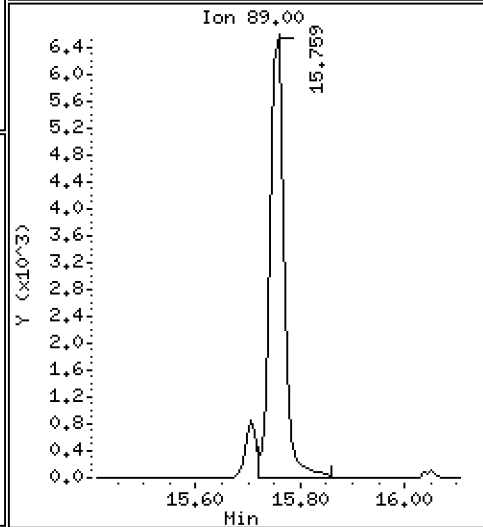
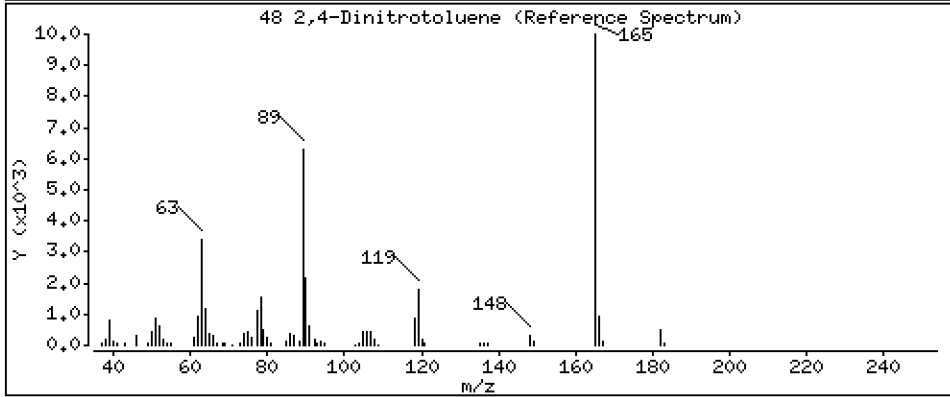
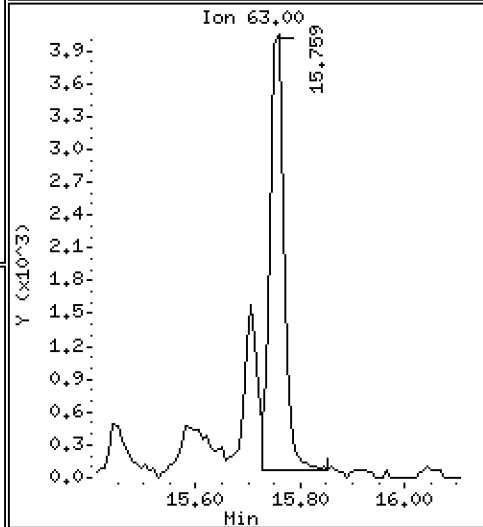
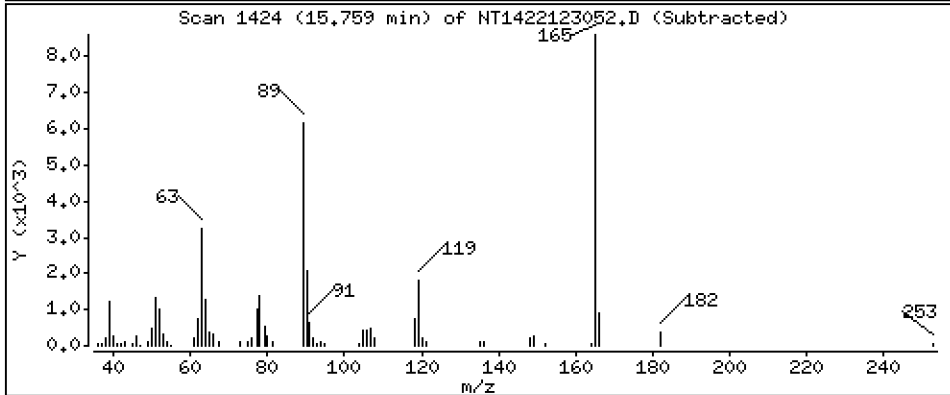
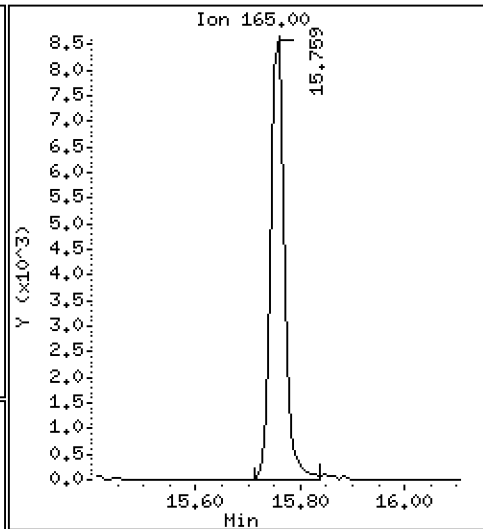
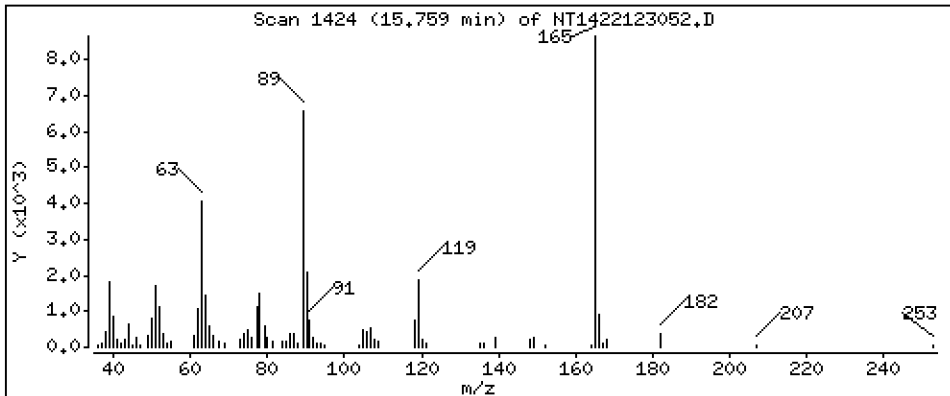
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,7788 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

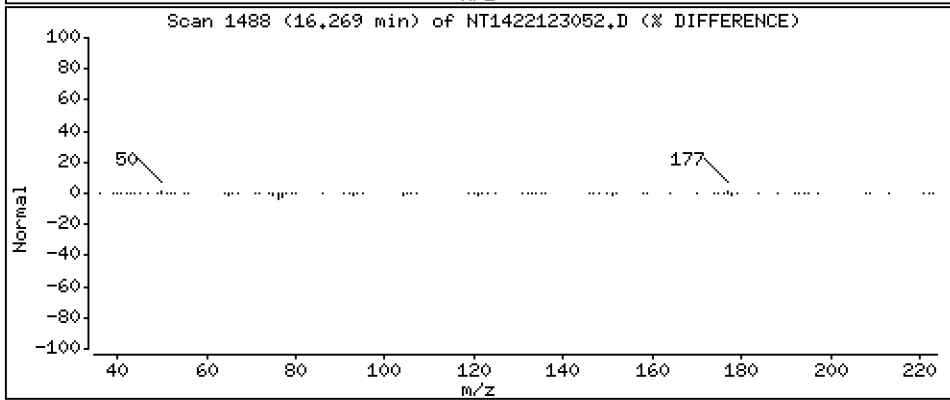
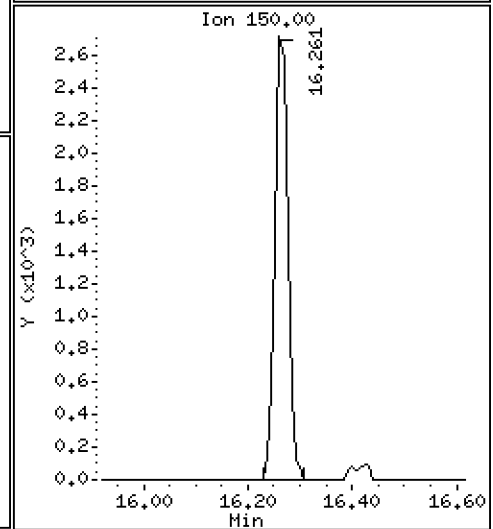
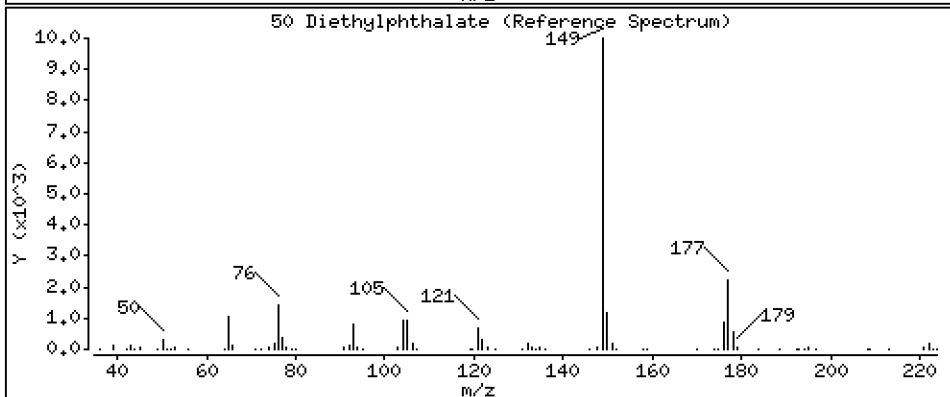
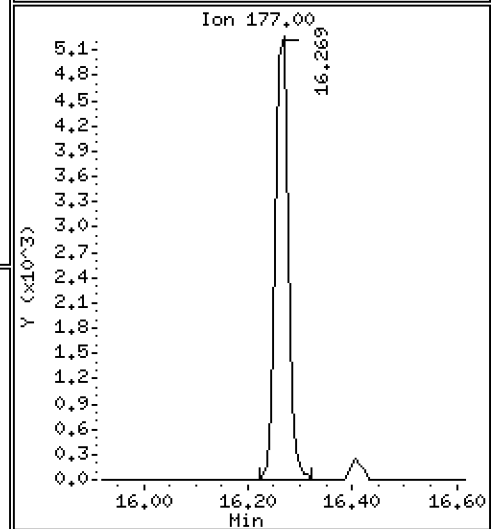
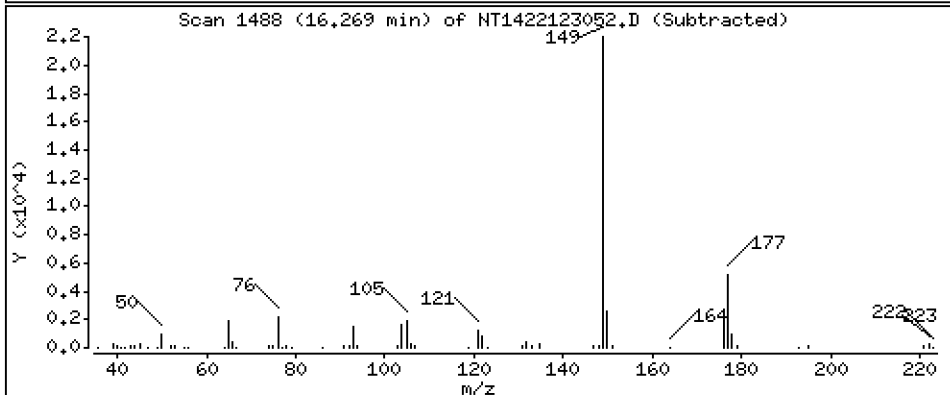
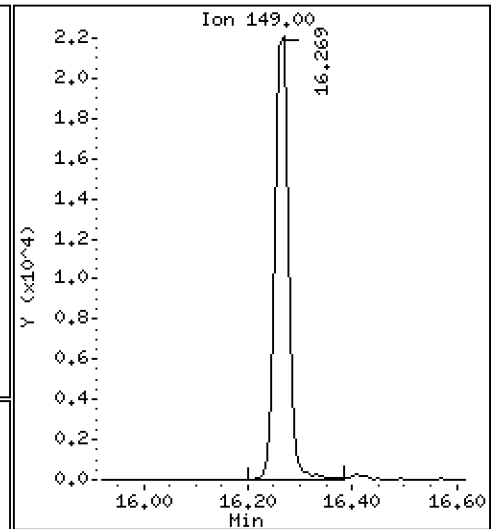
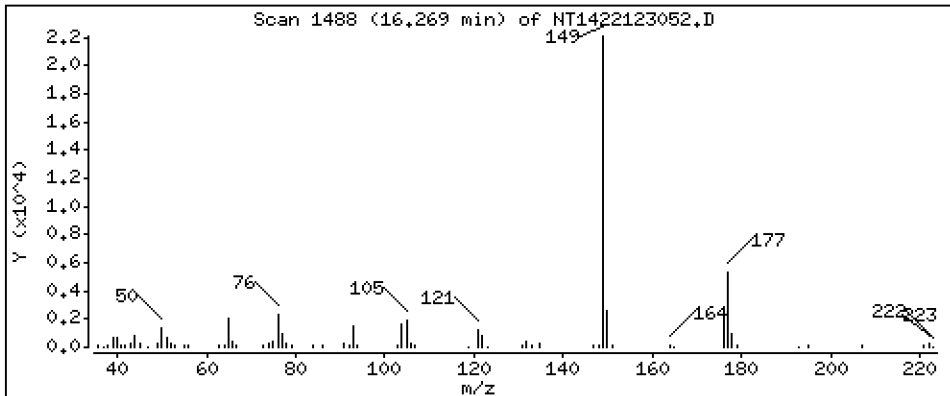
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5374 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

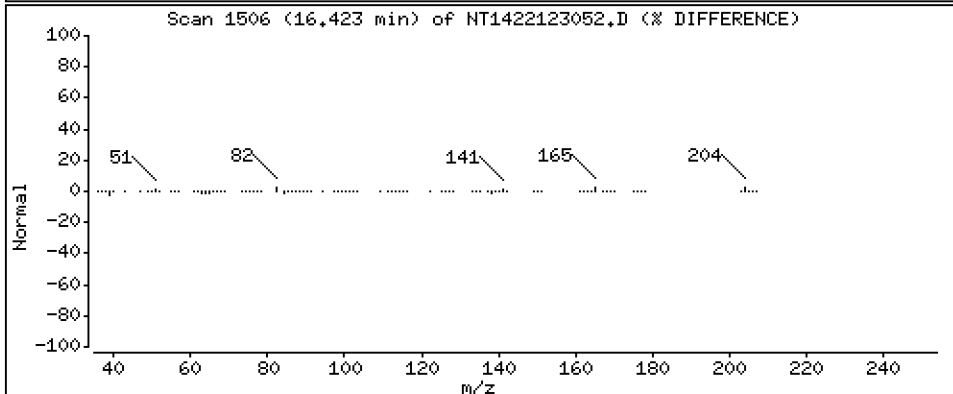
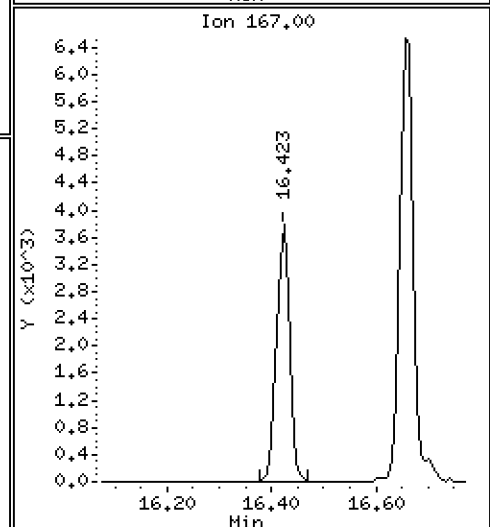
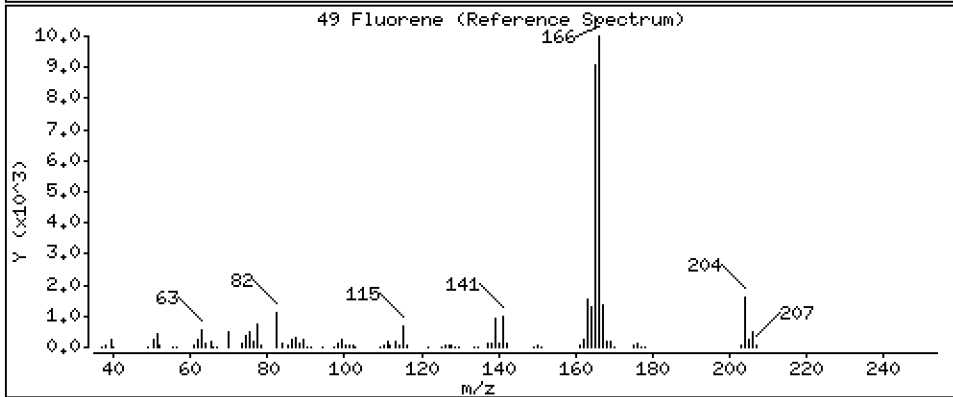
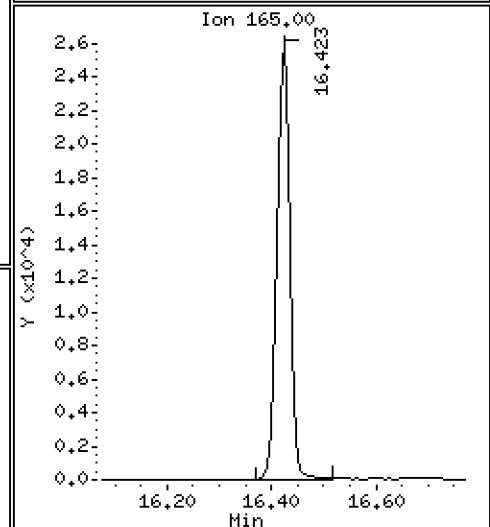
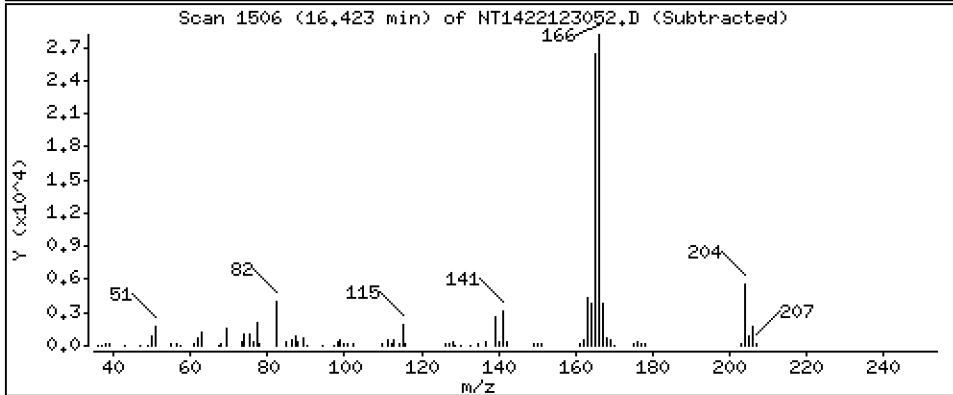
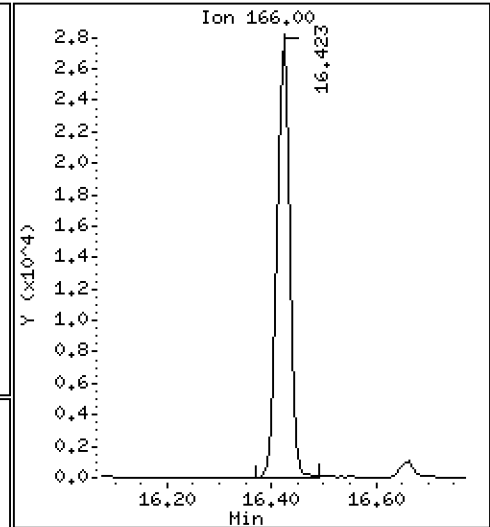
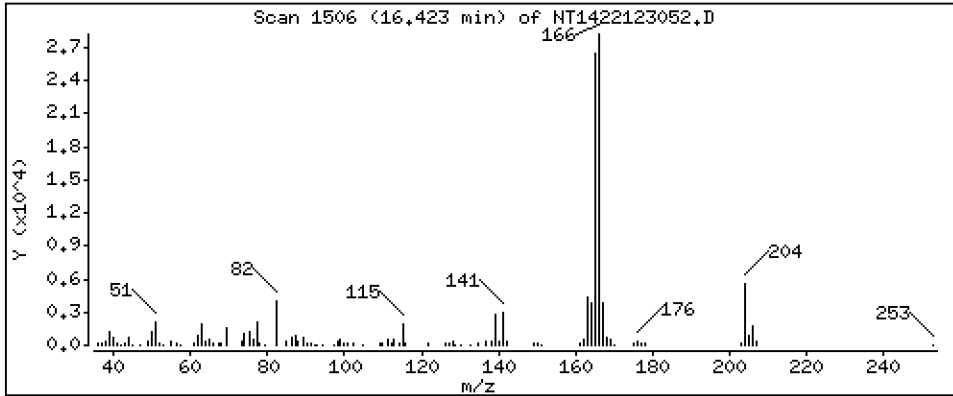
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,4836 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

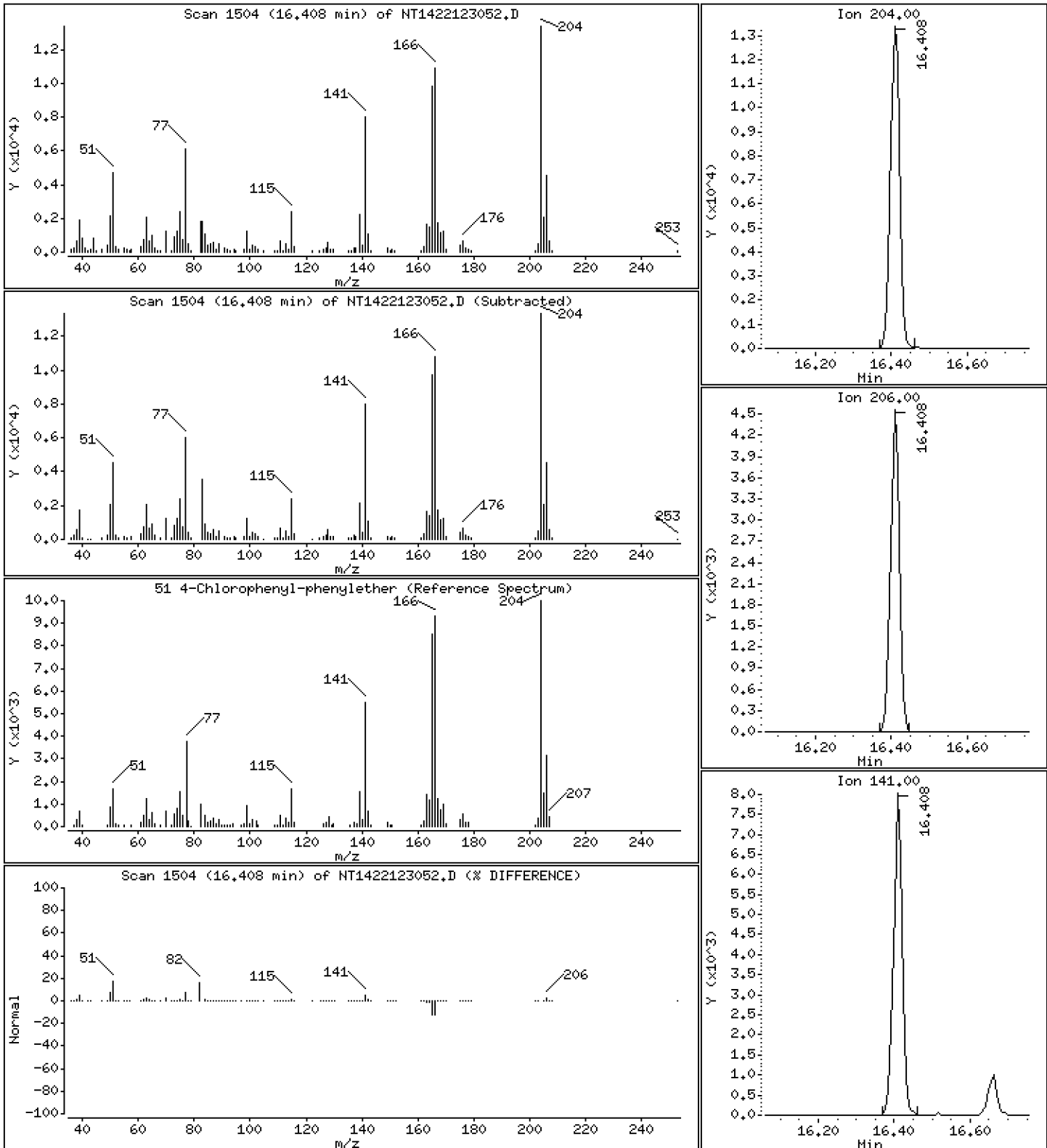
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4585 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

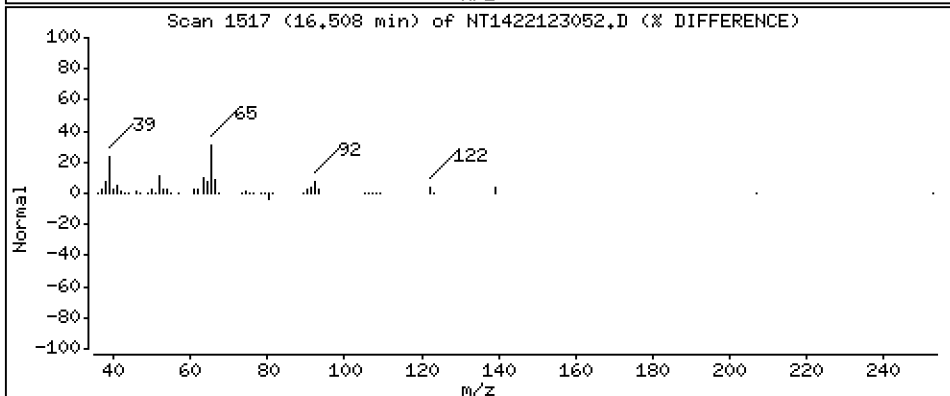
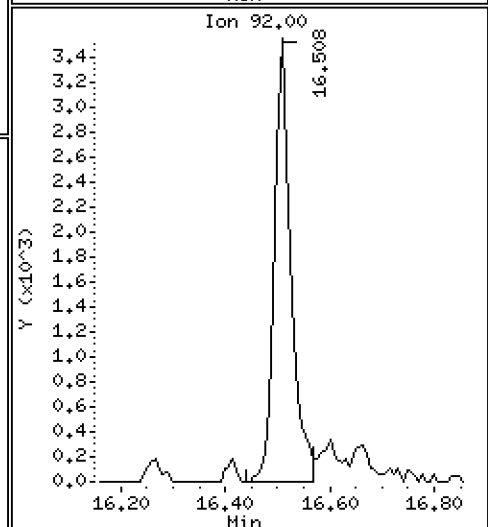
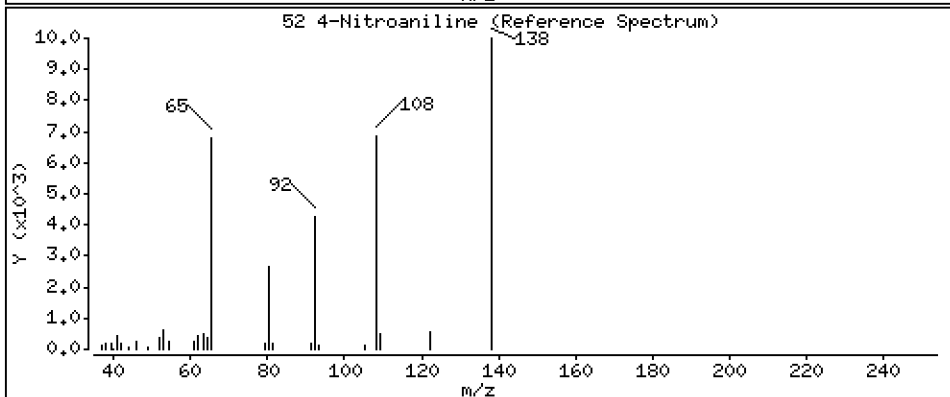
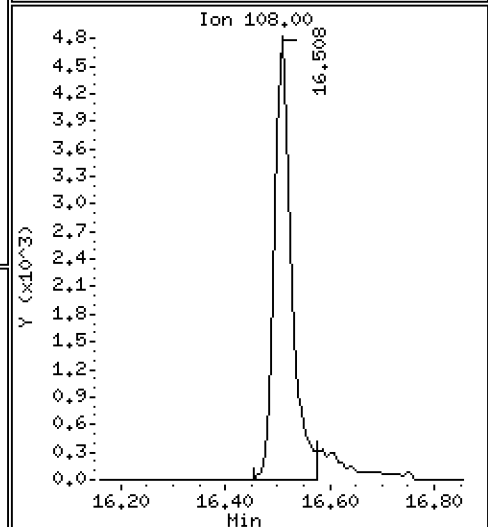
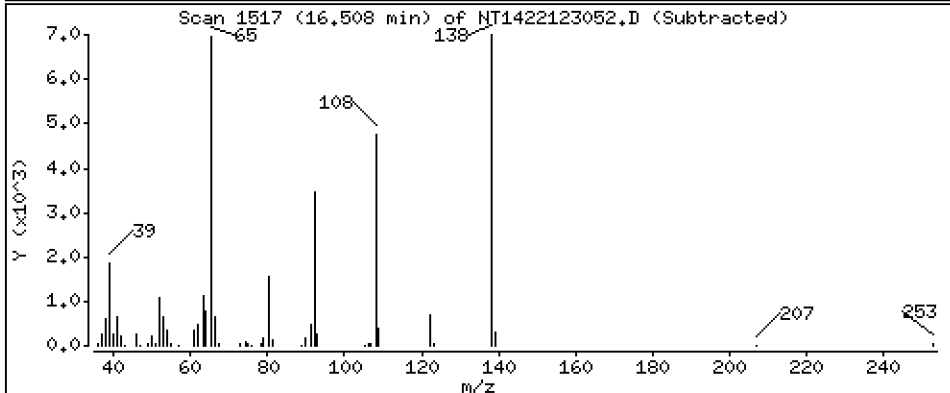
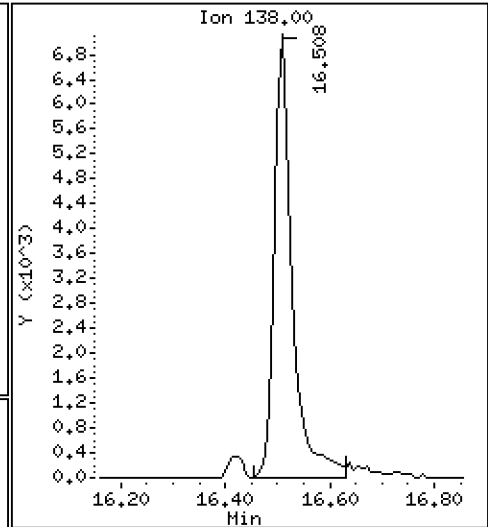
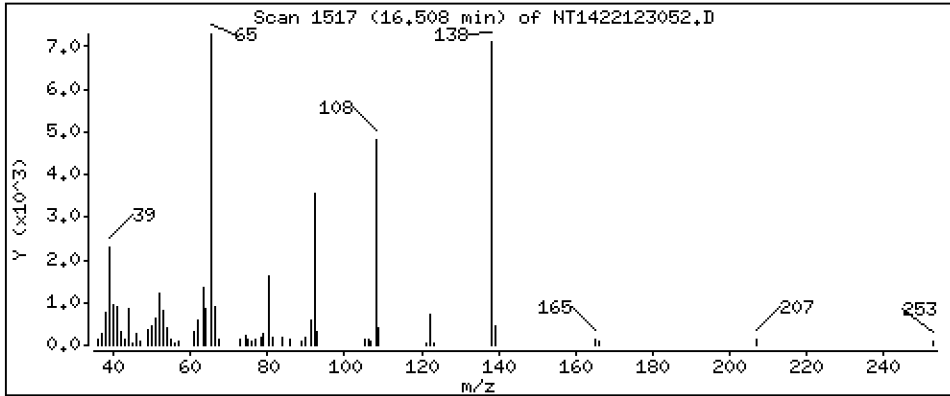
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7926 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

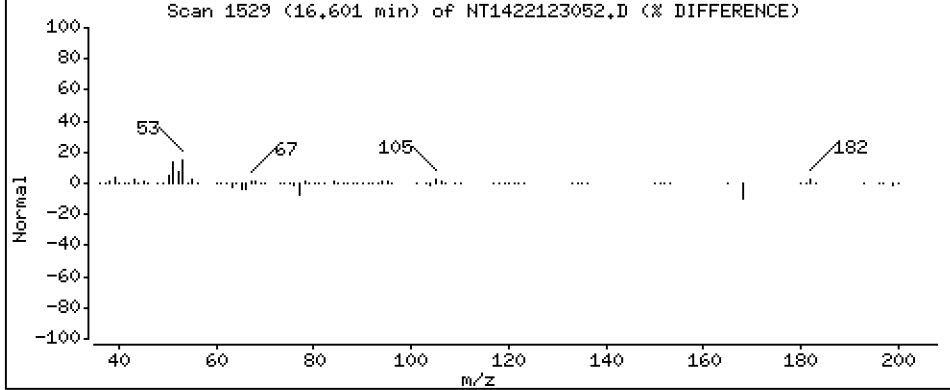
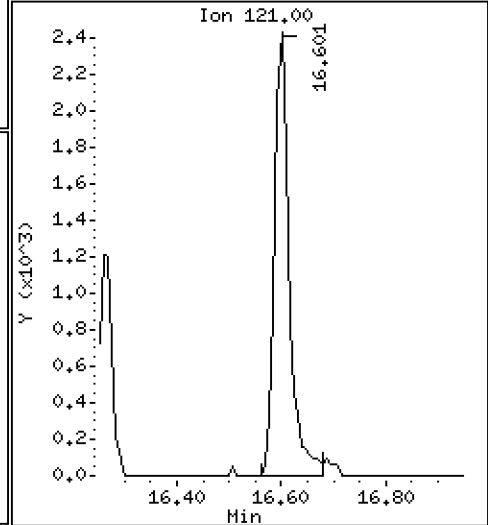
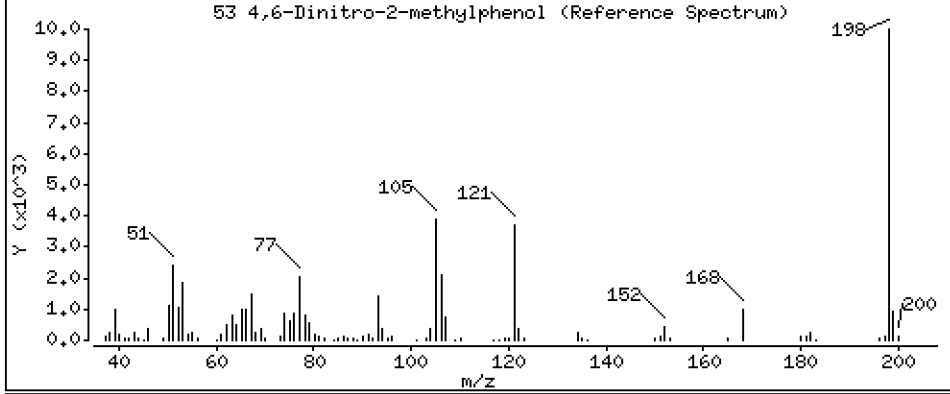
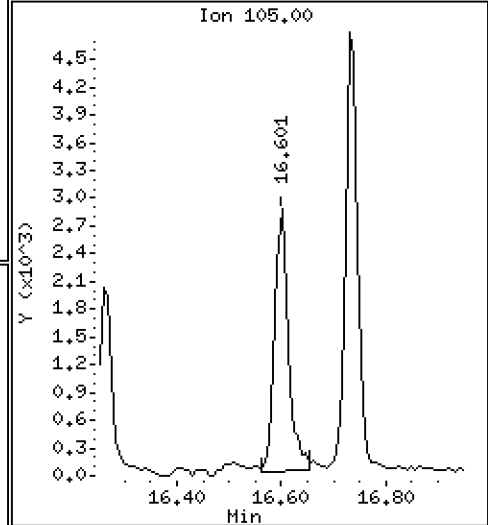
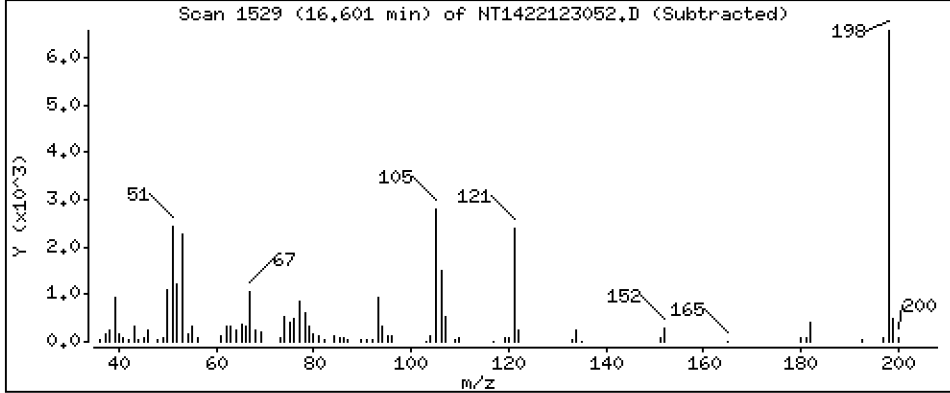
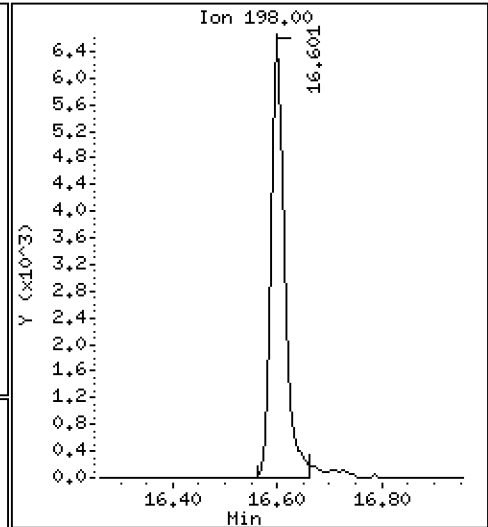
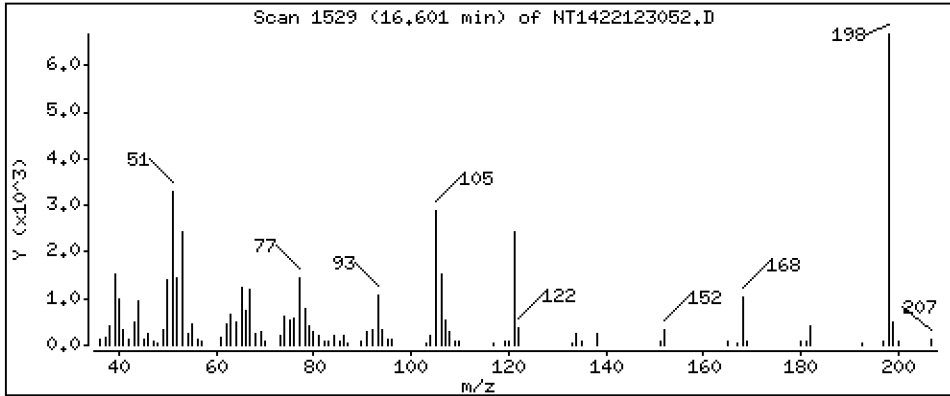
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7566 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

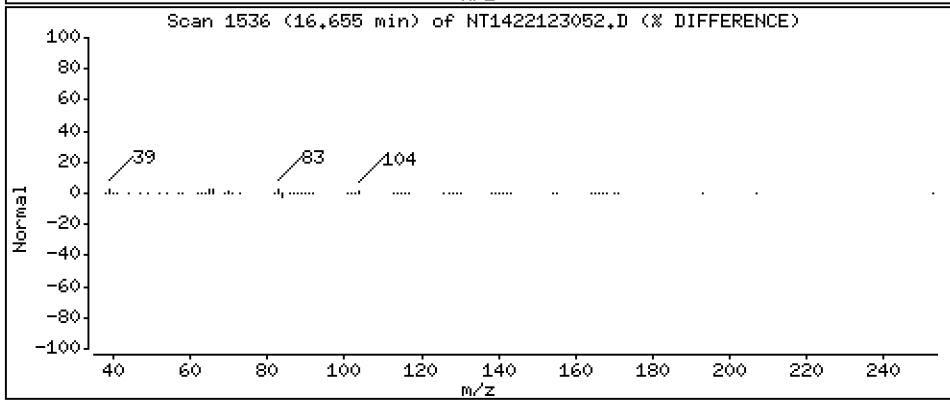
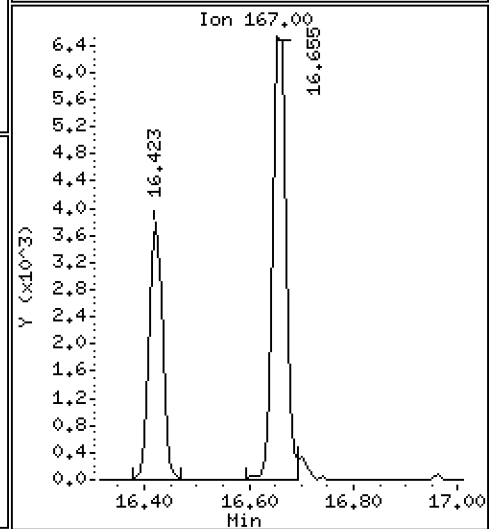
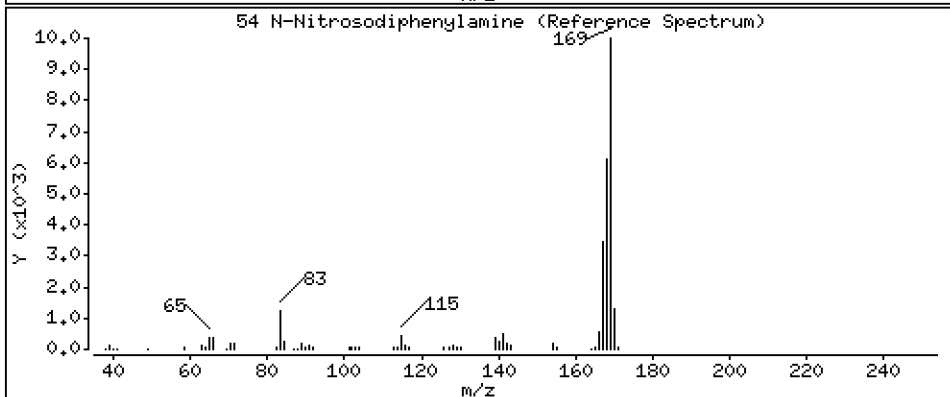
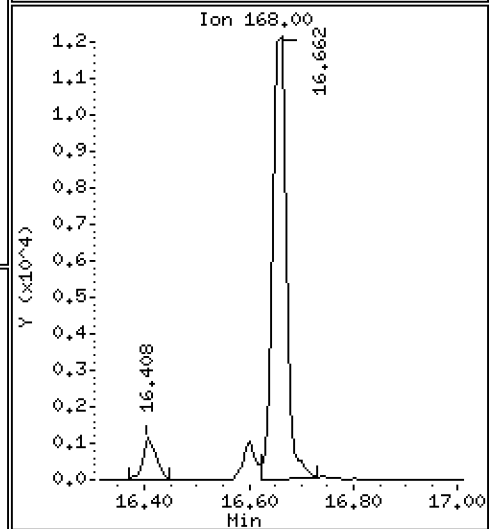
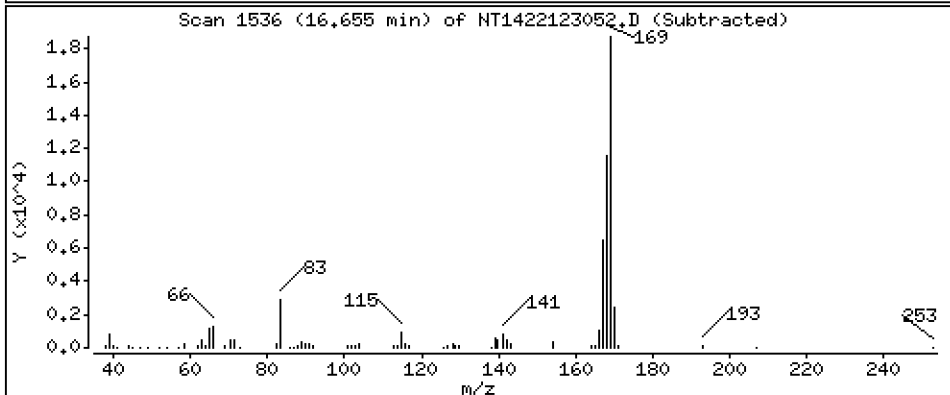
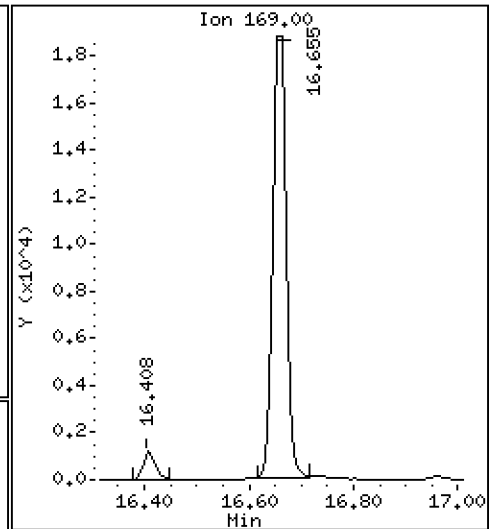
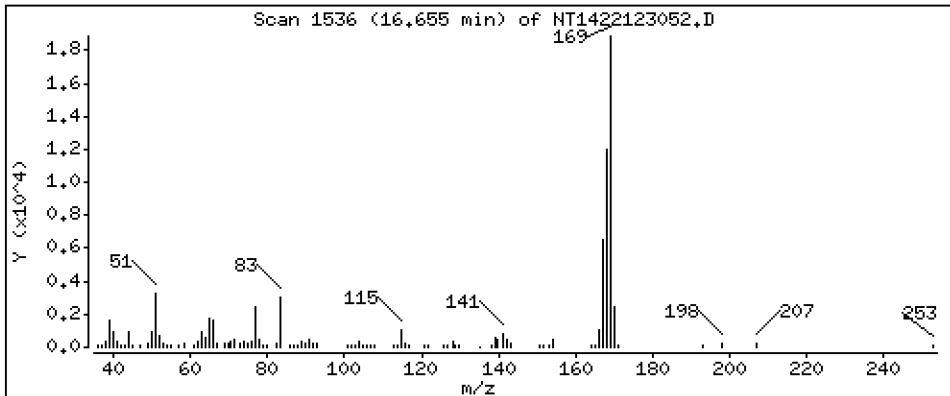
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5113 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

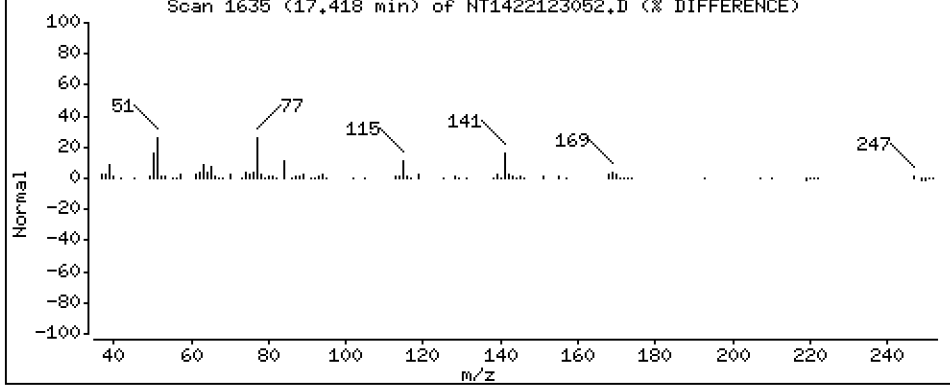
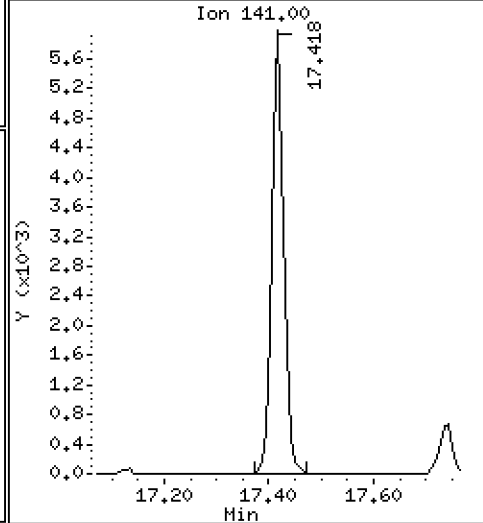
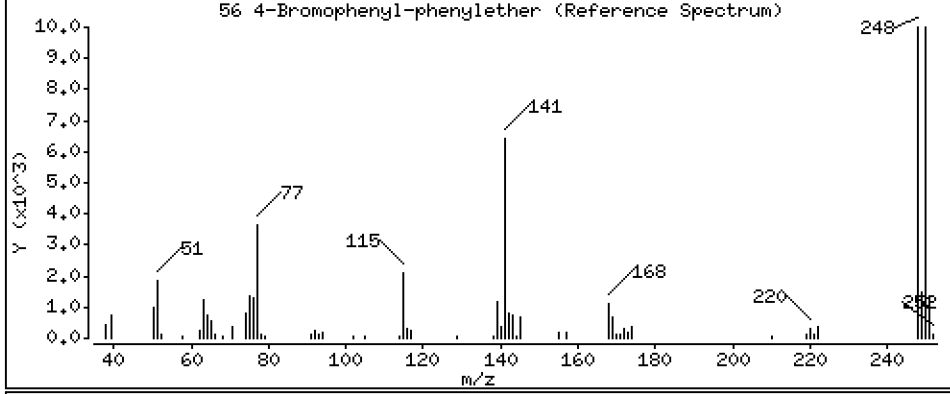
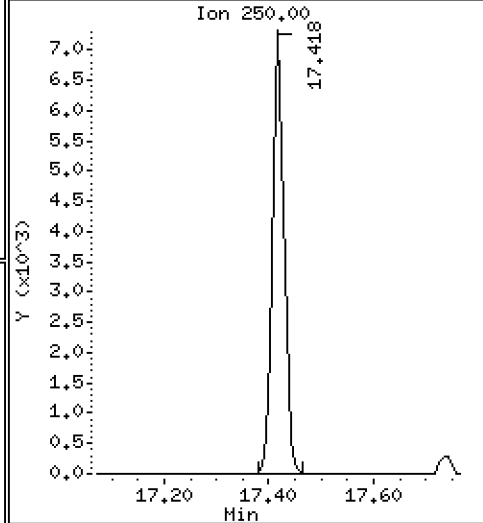
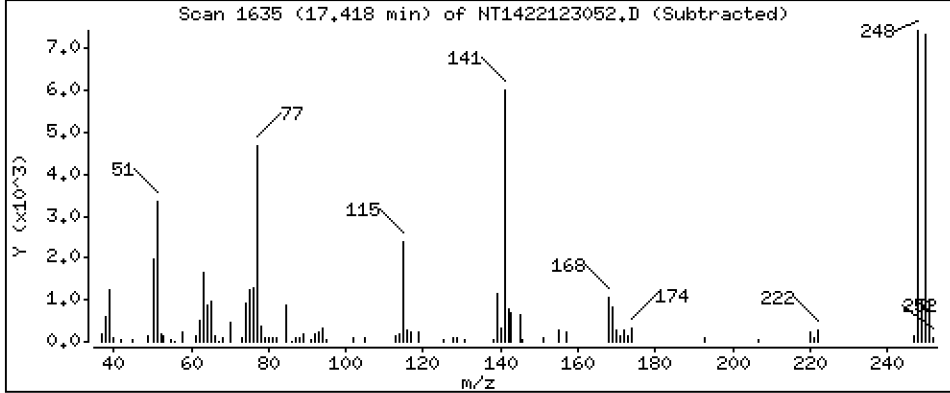
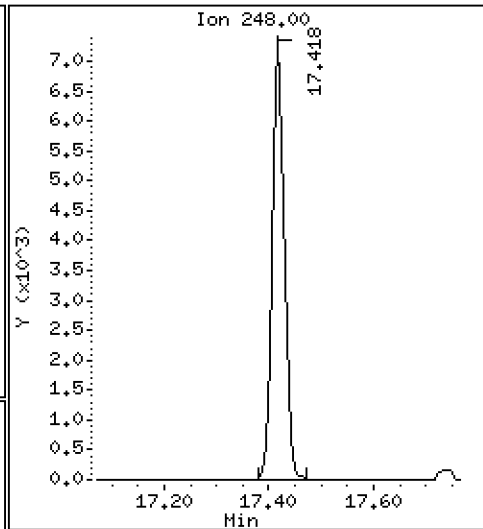
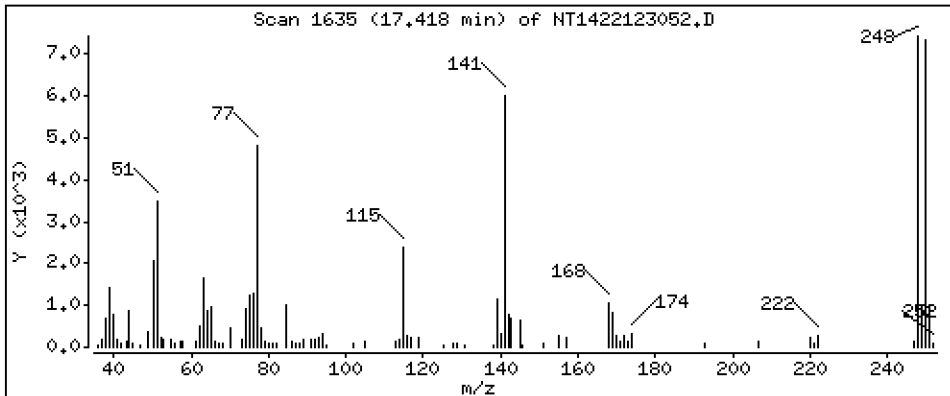
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,4903 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

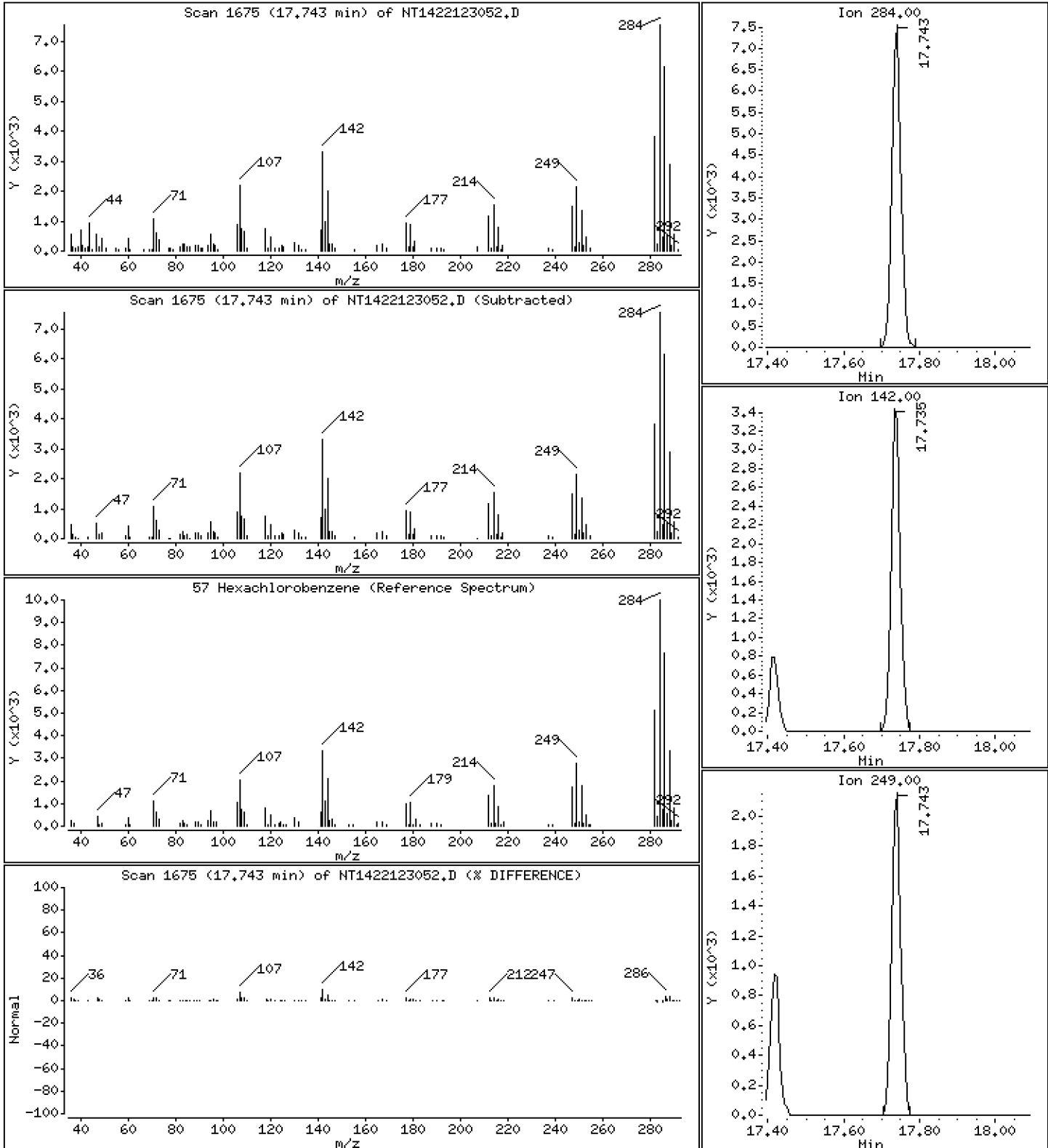
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,4900 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

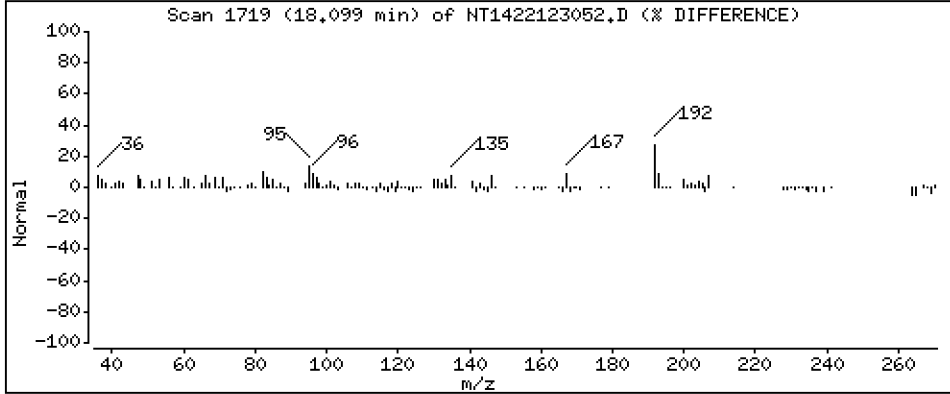
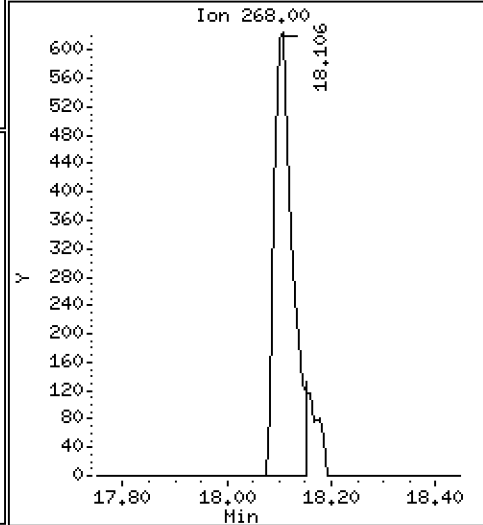
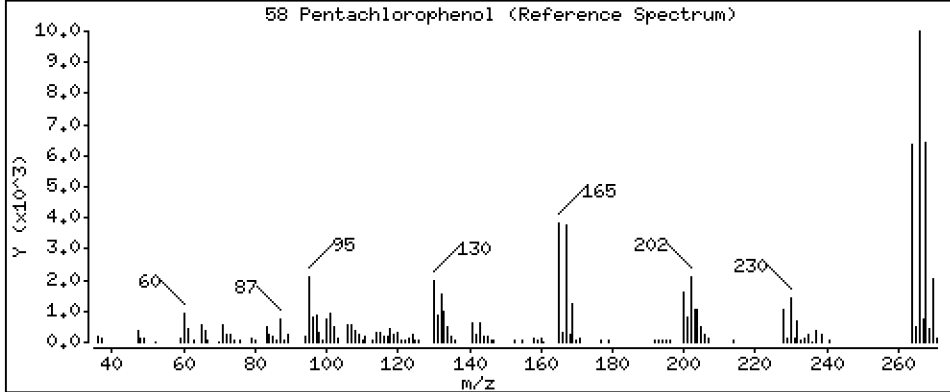
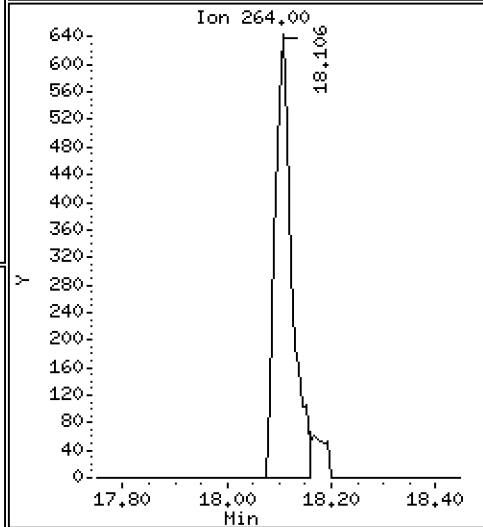
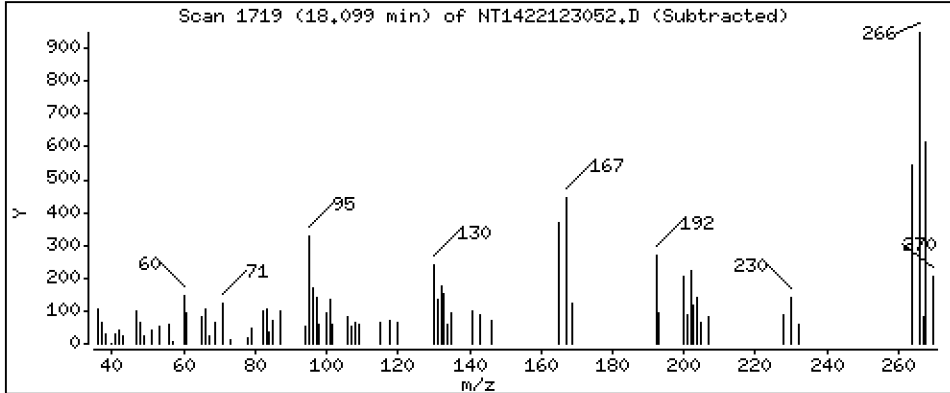
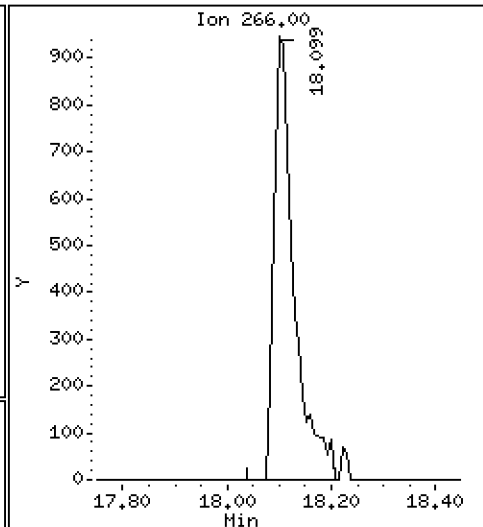
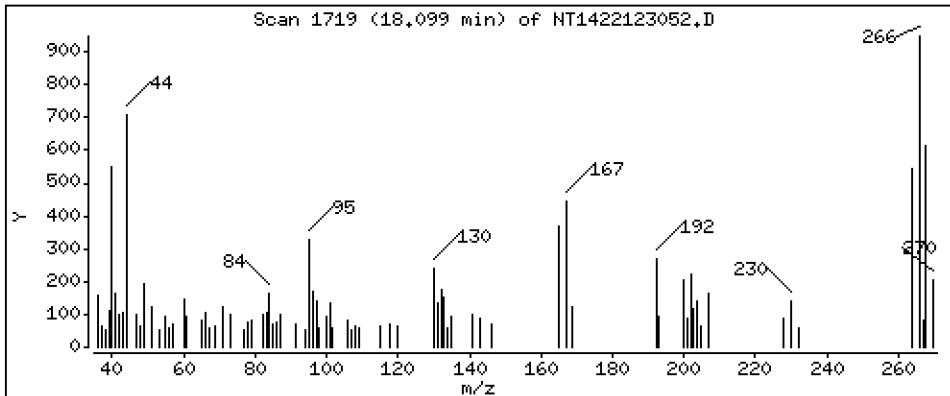
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2250 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

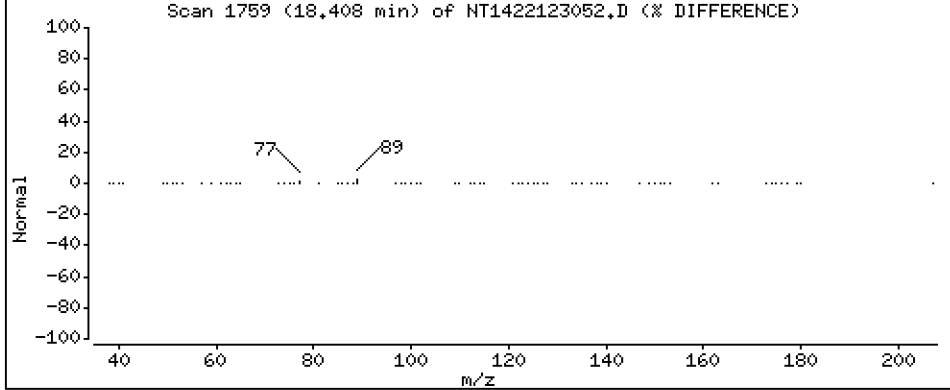
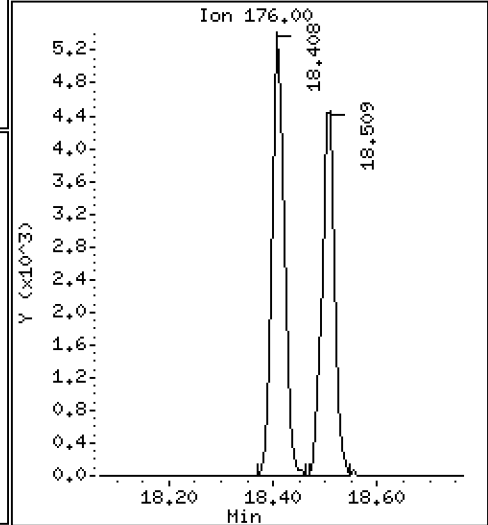
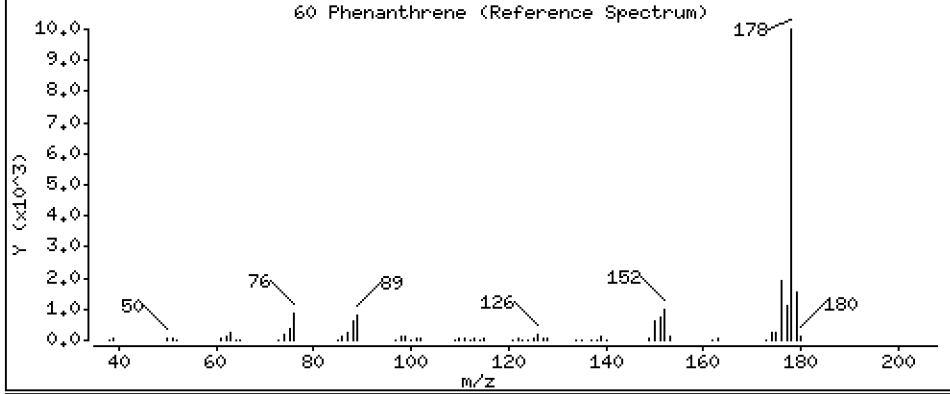
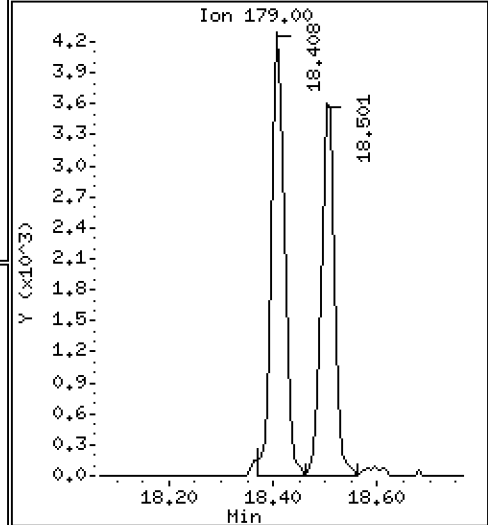
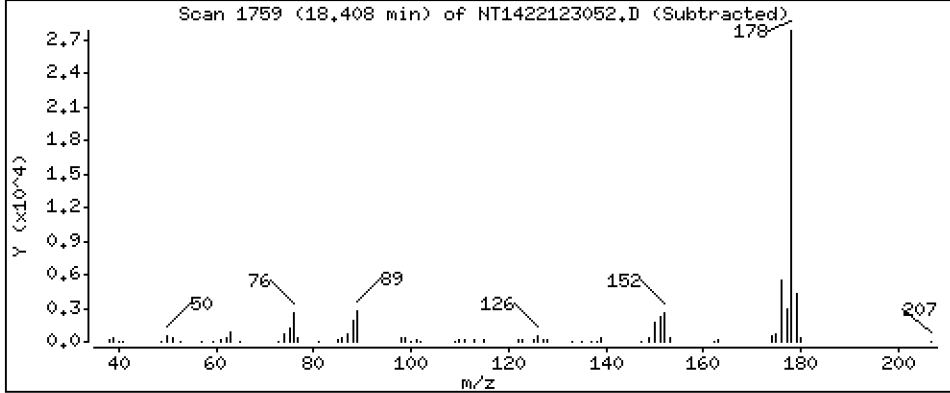
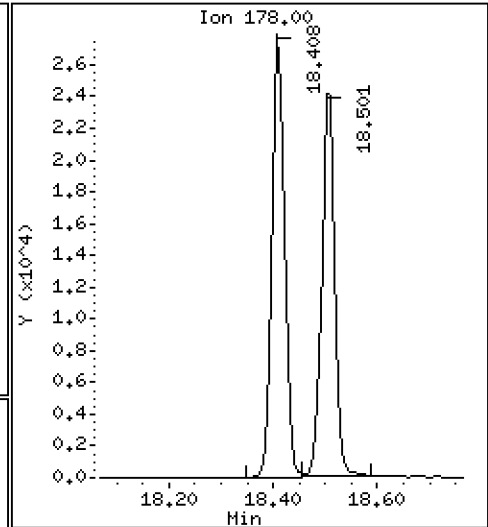
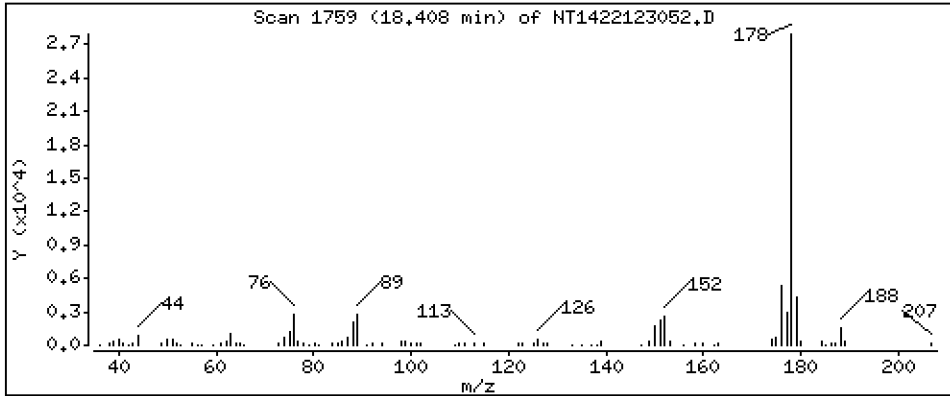
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,4886 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

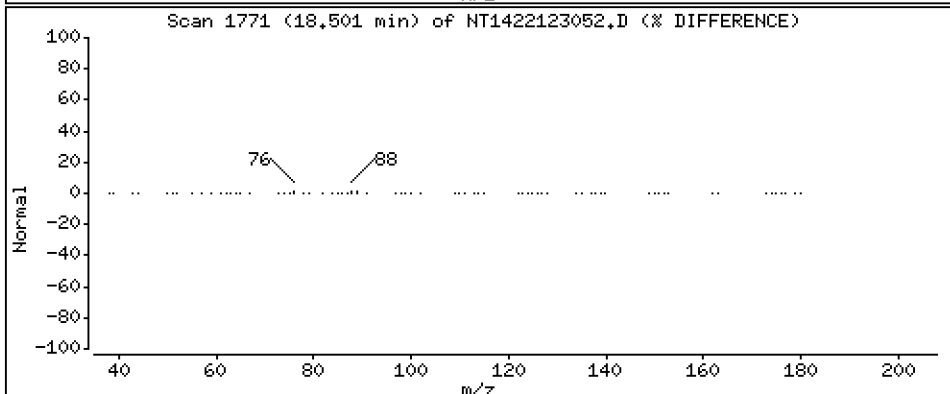
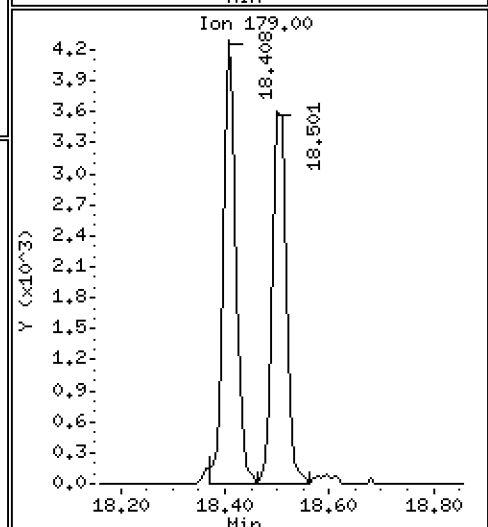
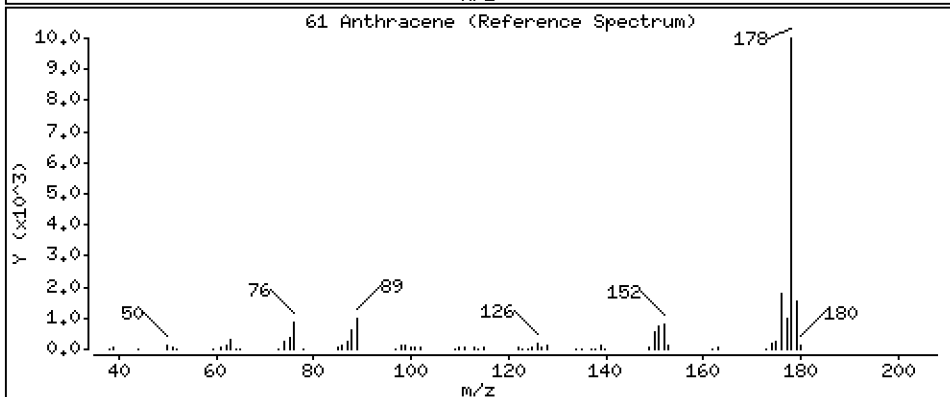
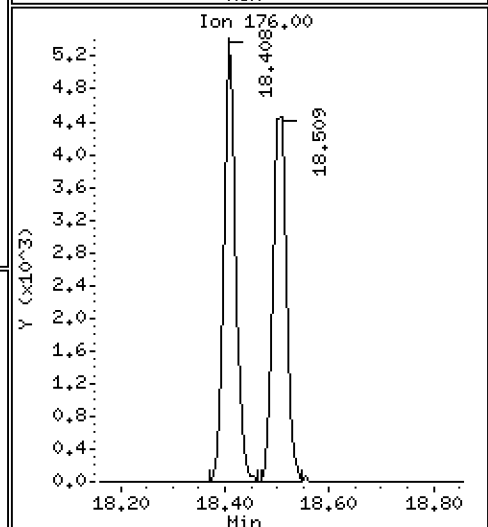
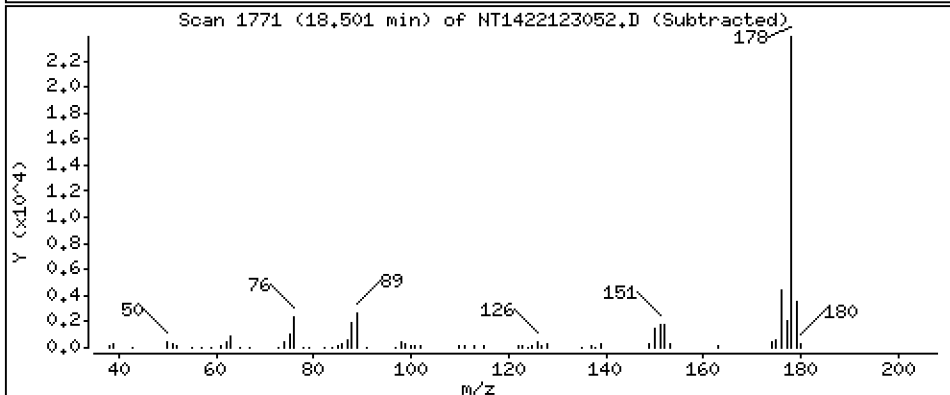
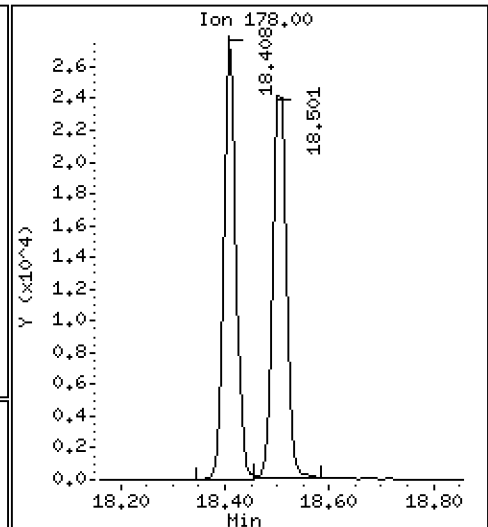
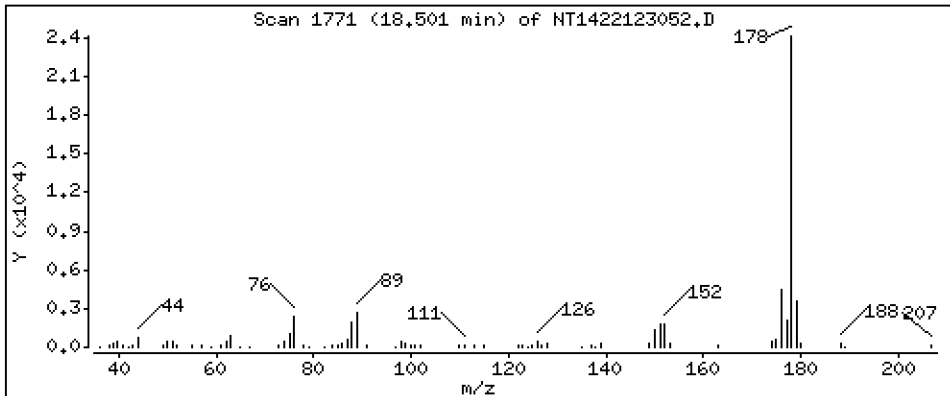
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,4683 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

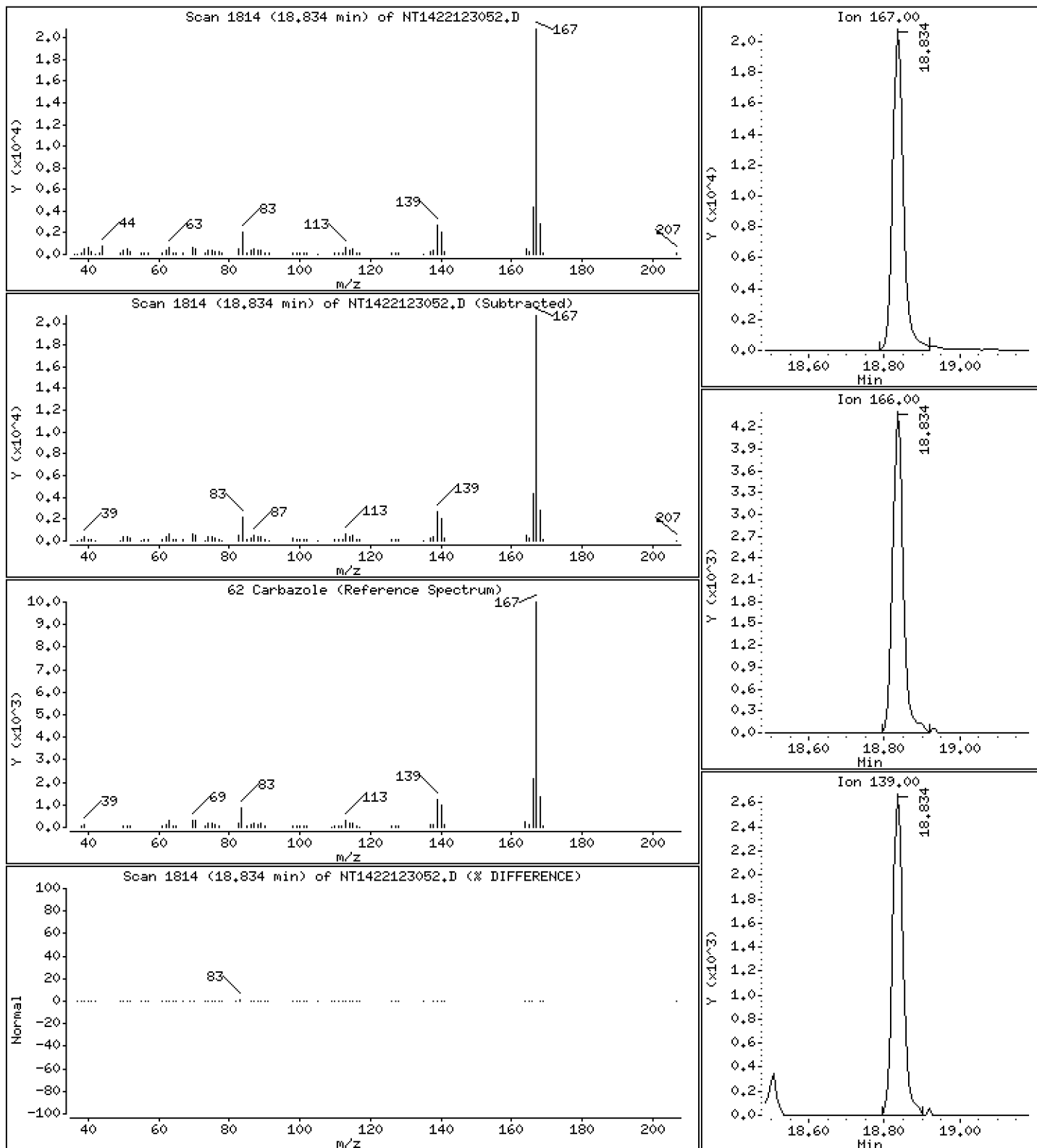
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4608 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

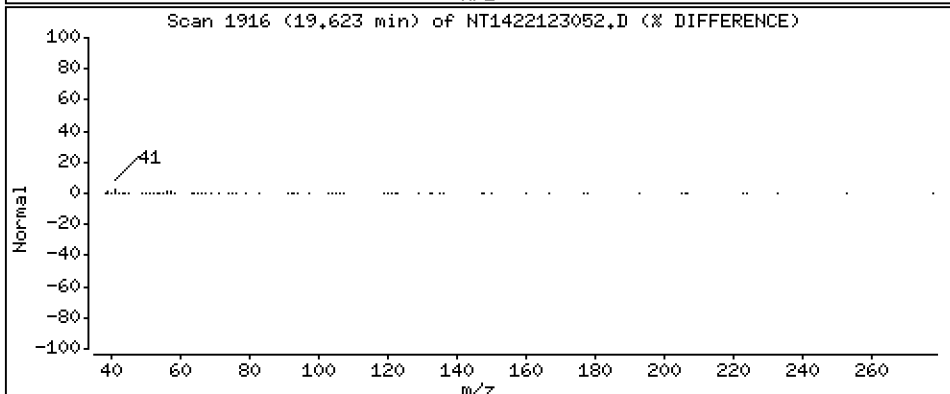
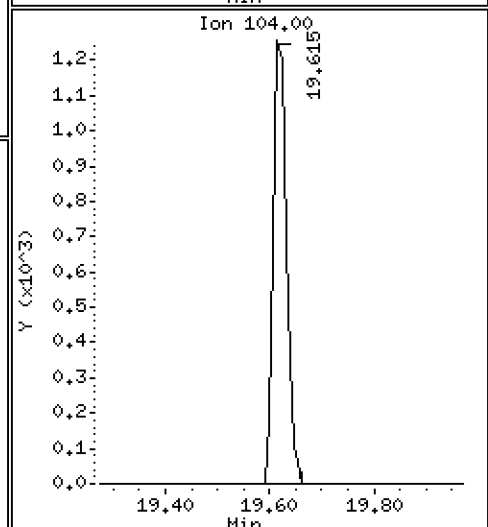
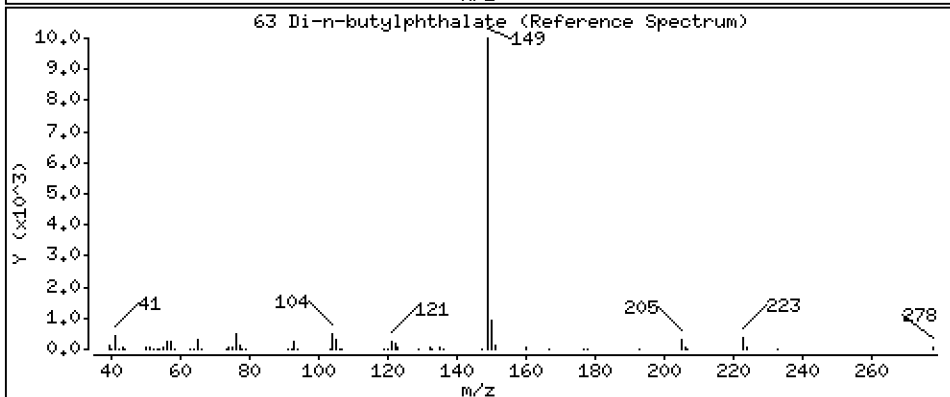
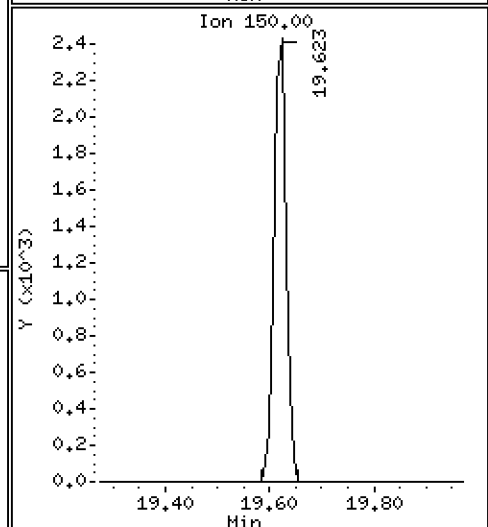
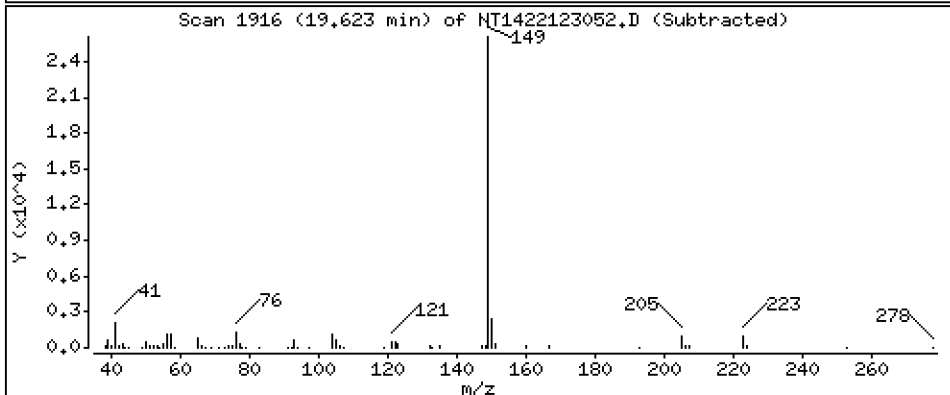
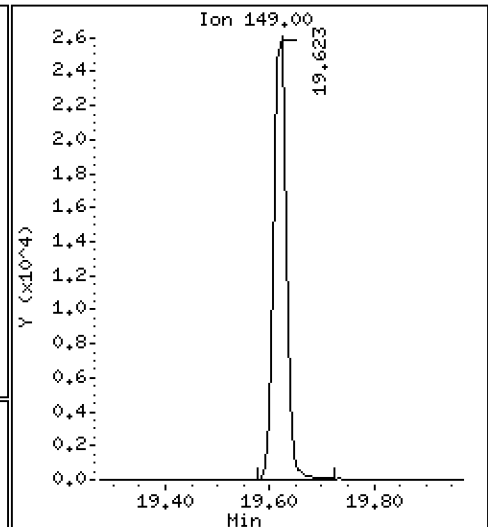
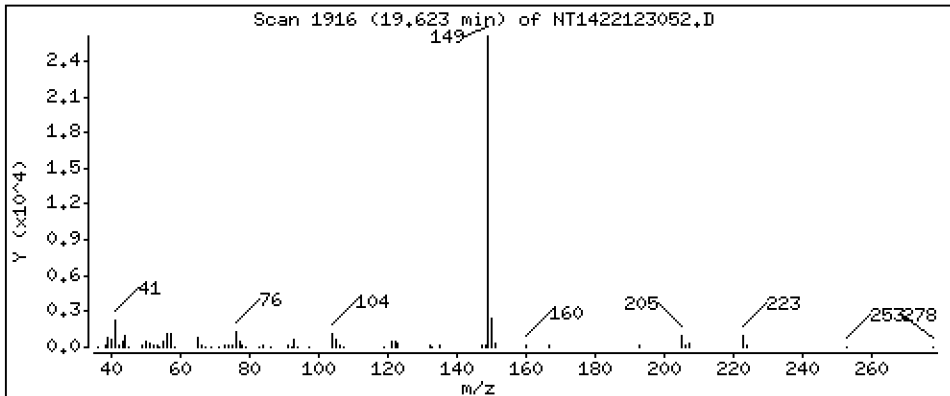
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4286 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

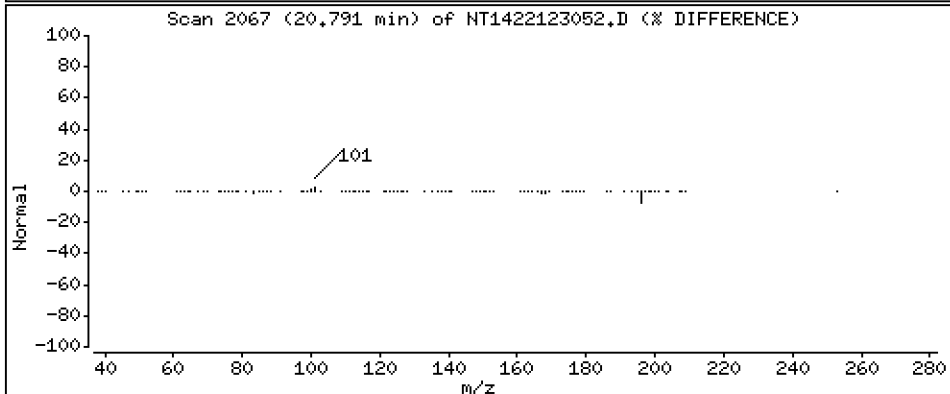
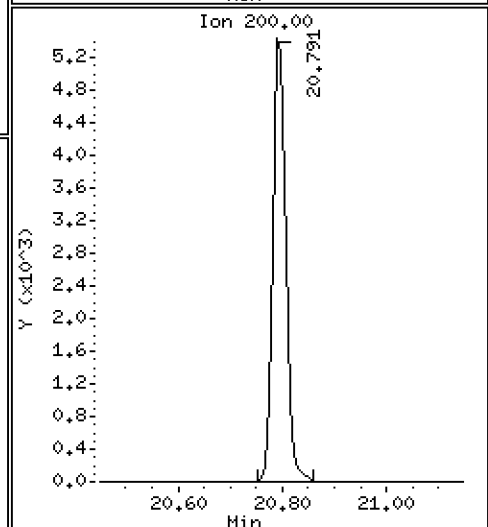
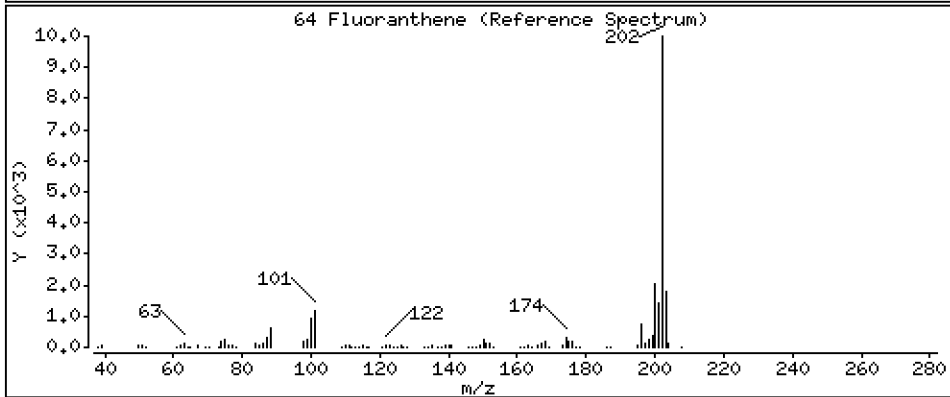
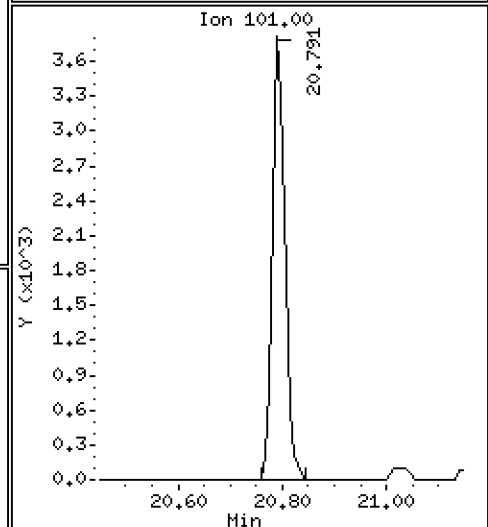
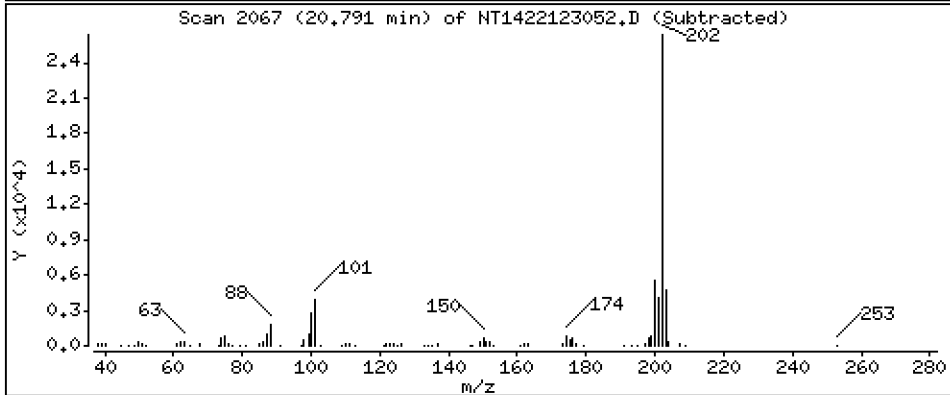
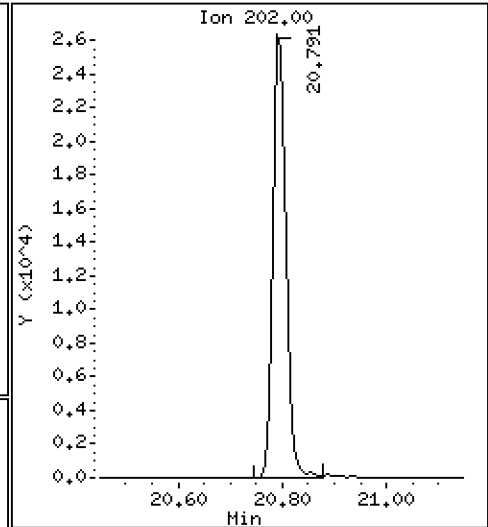
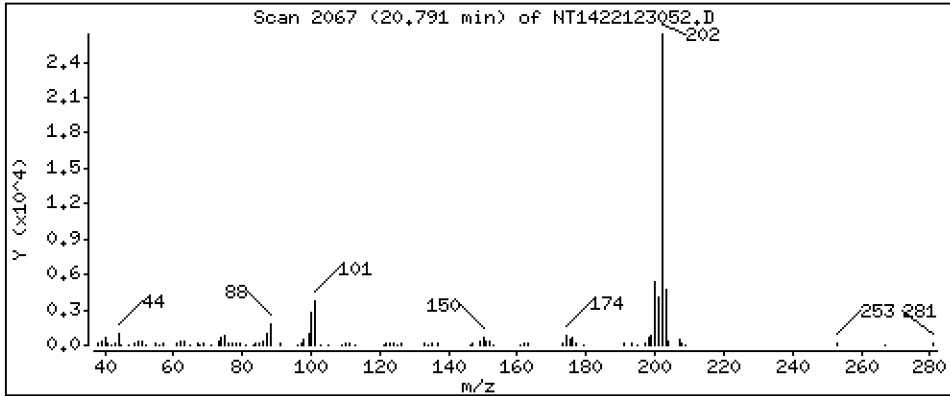
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4643 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

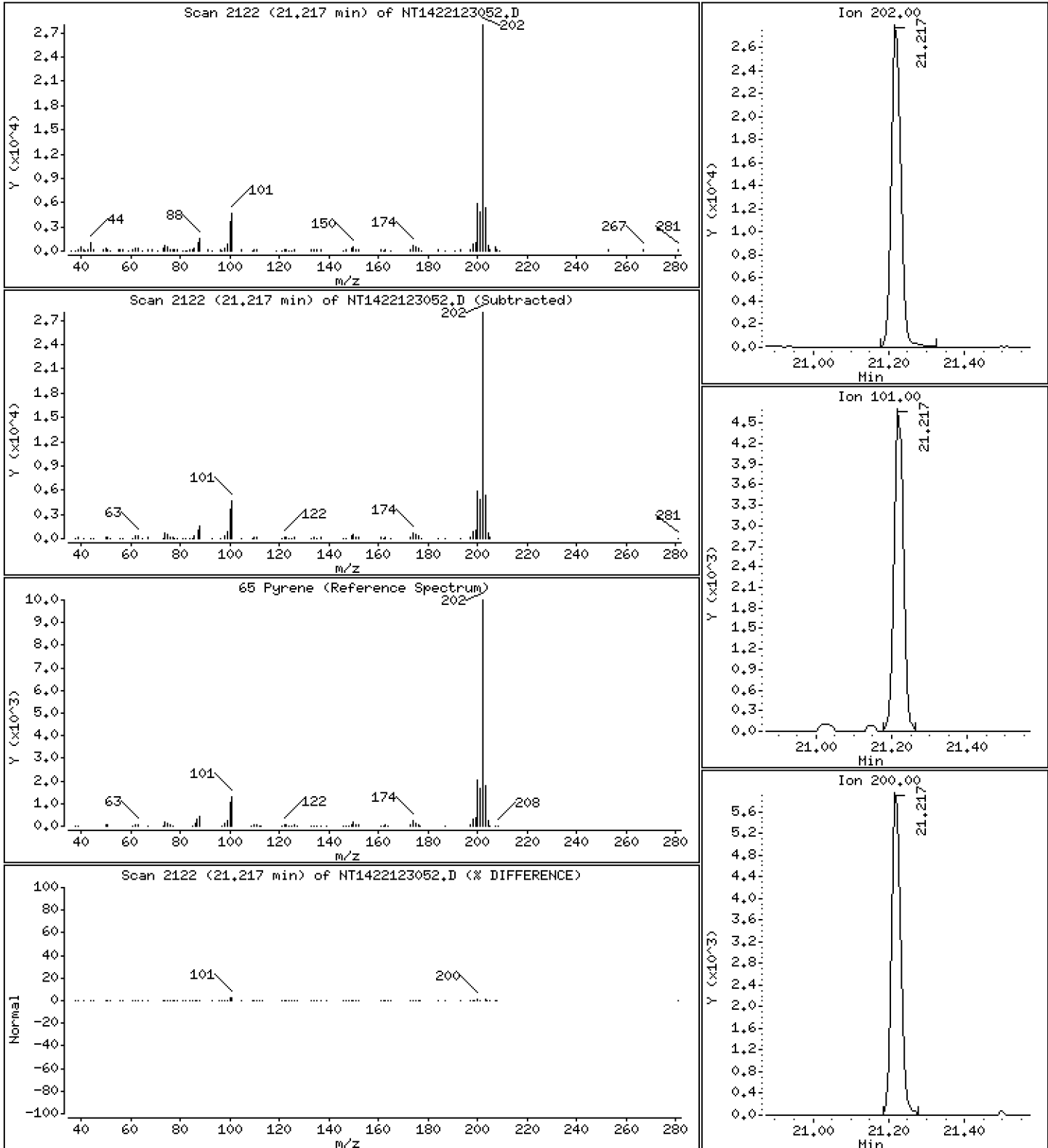
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4679 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

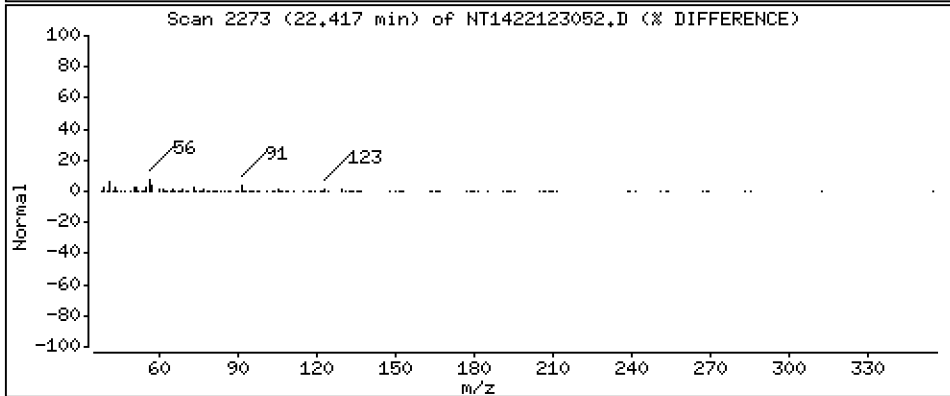
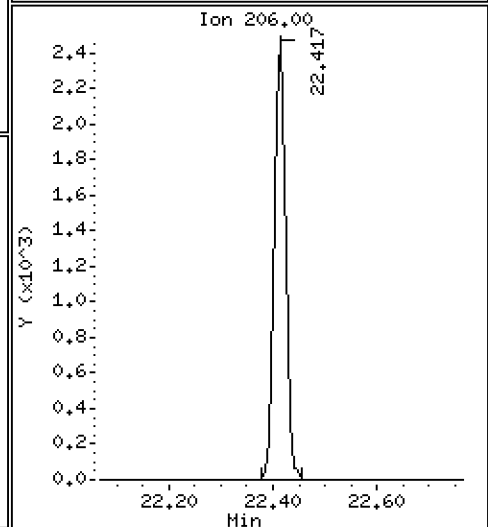
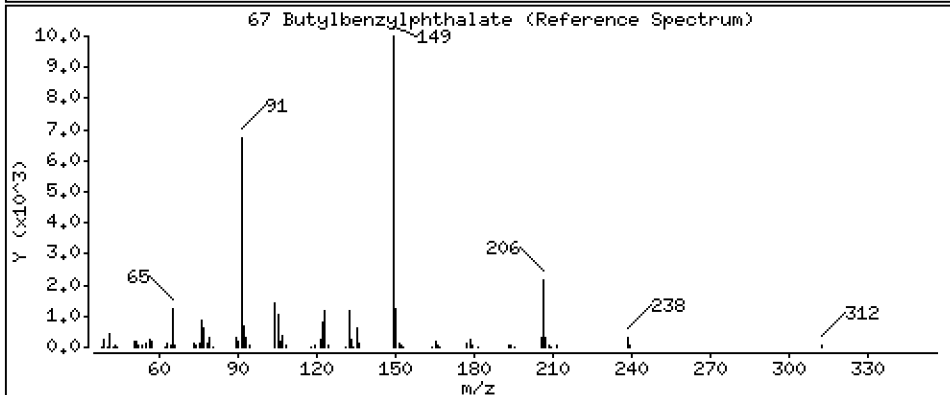
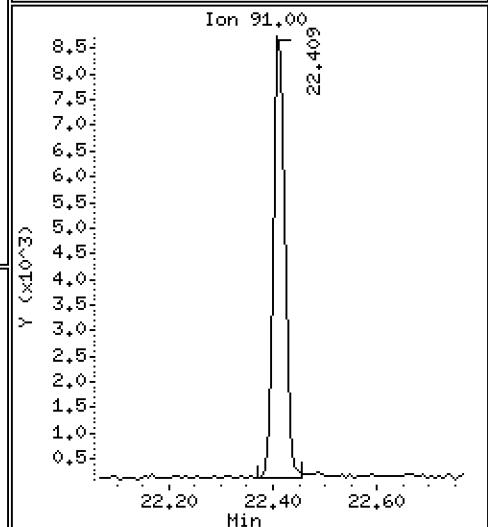
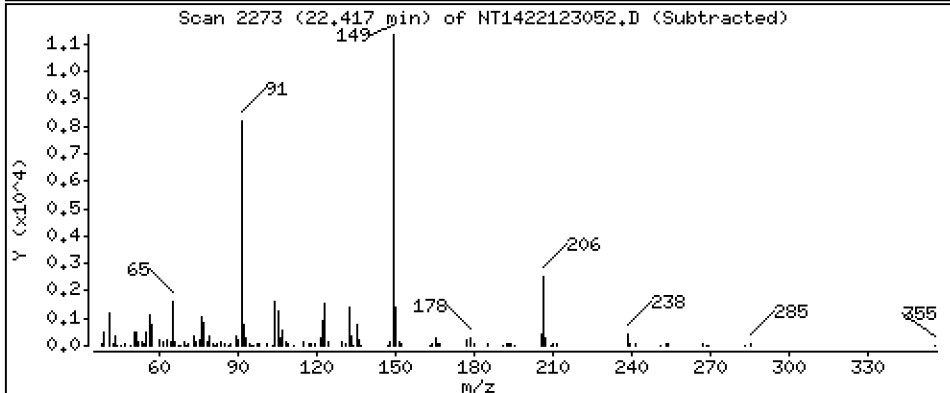
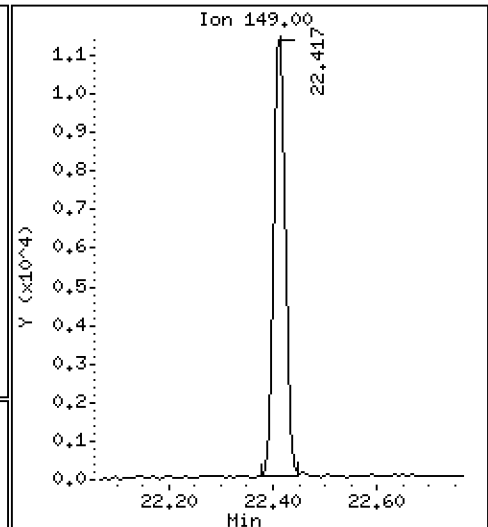
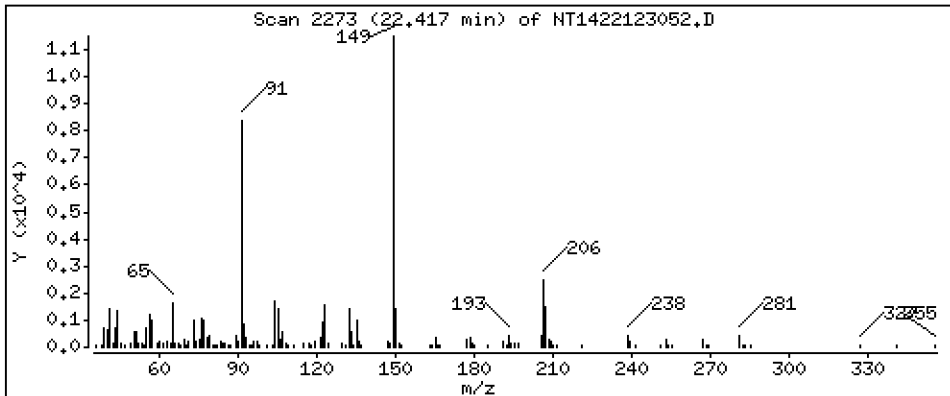
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,4436 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

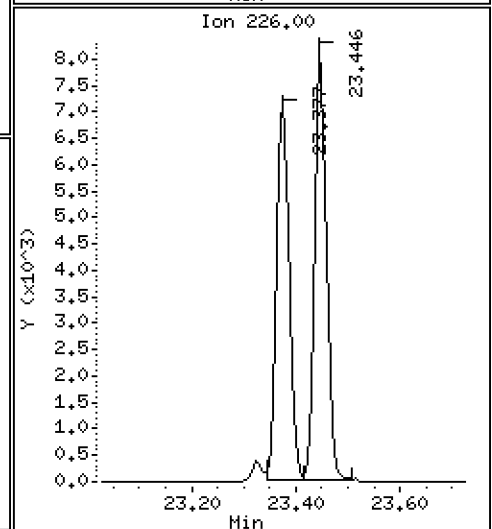
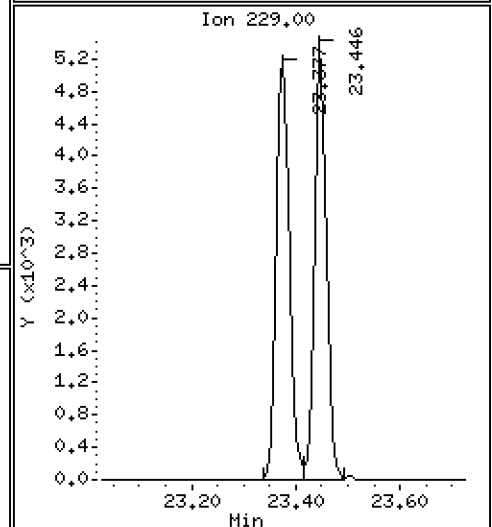
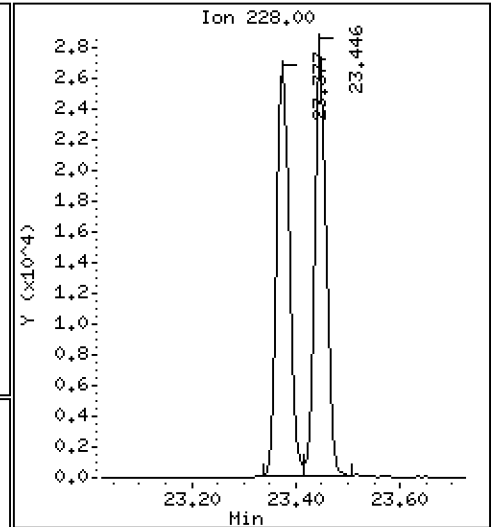
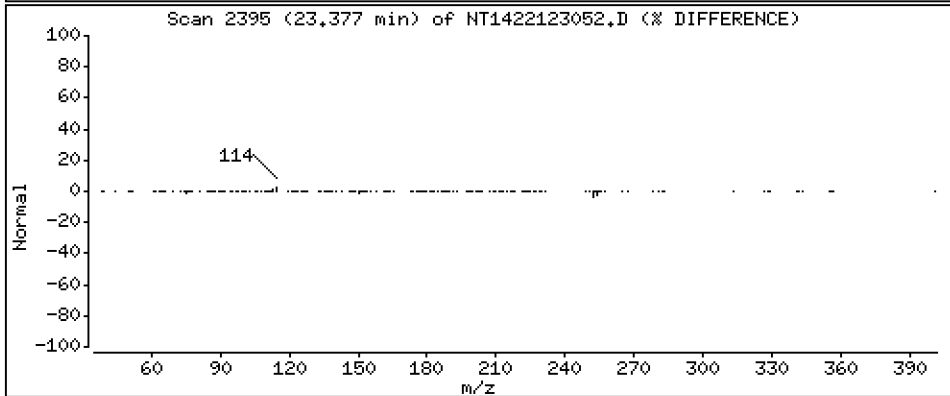
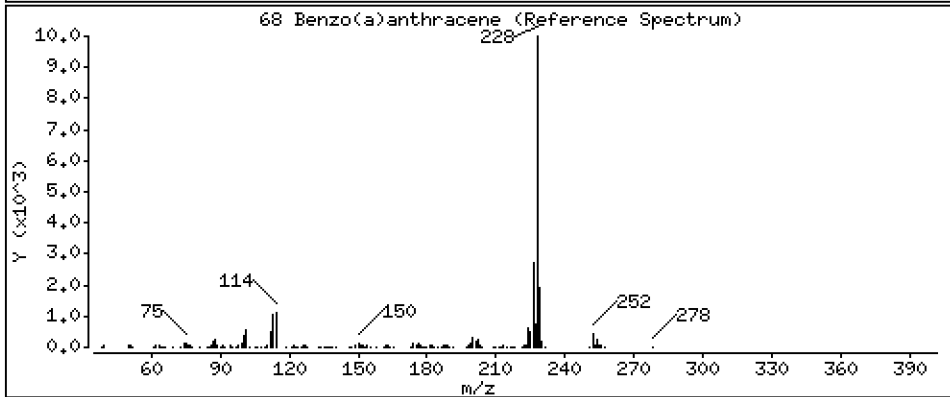
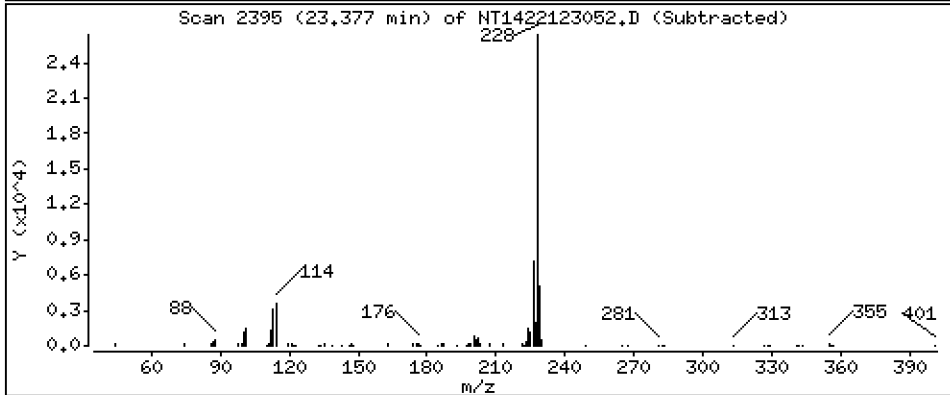
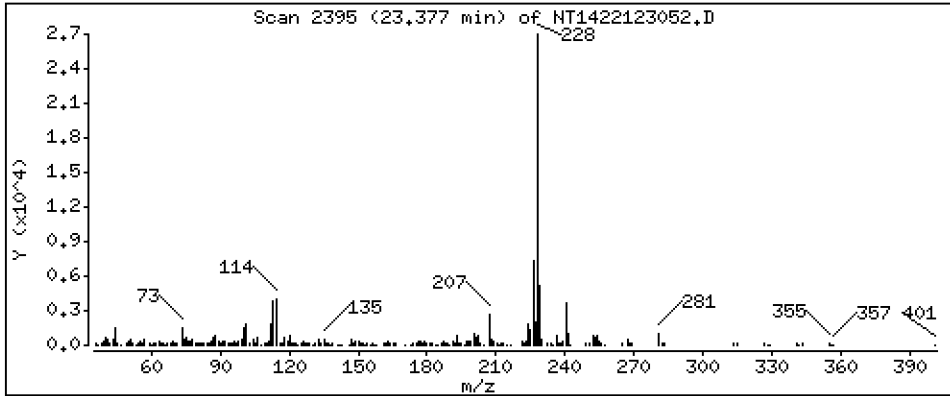
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,4849 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

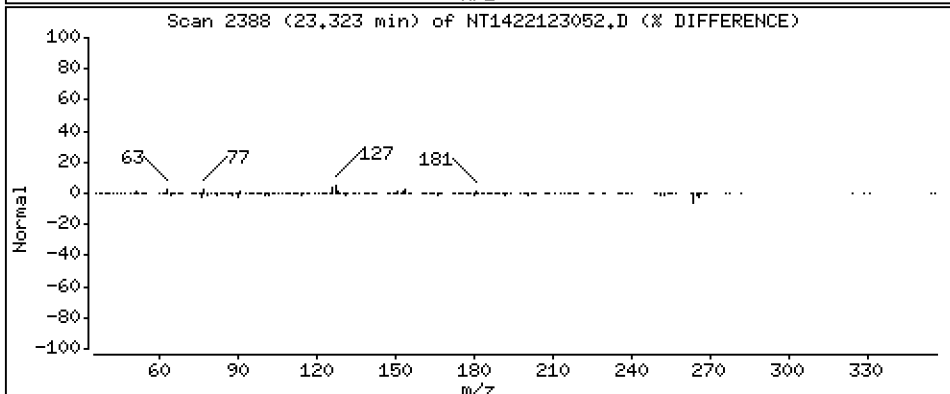
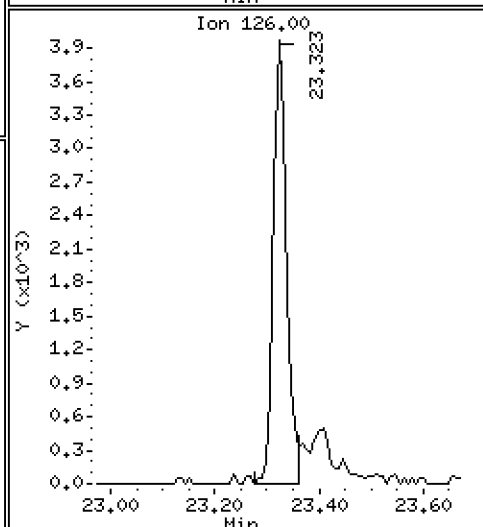
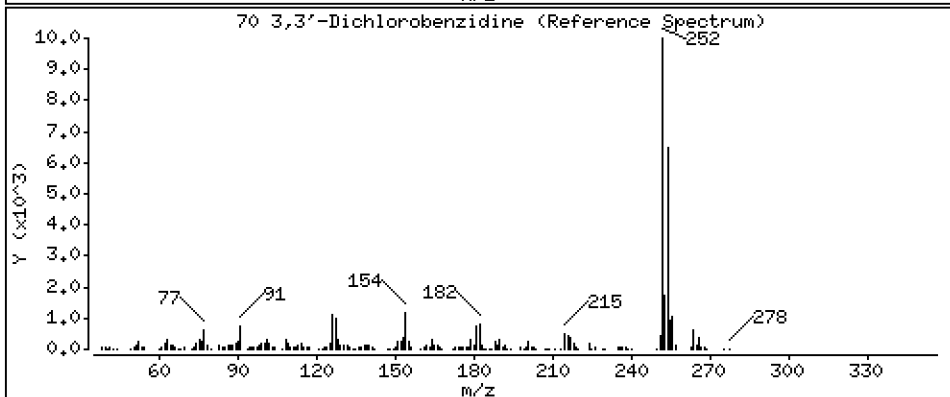
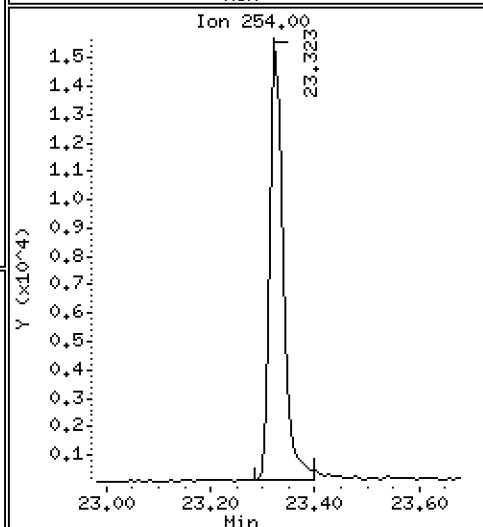
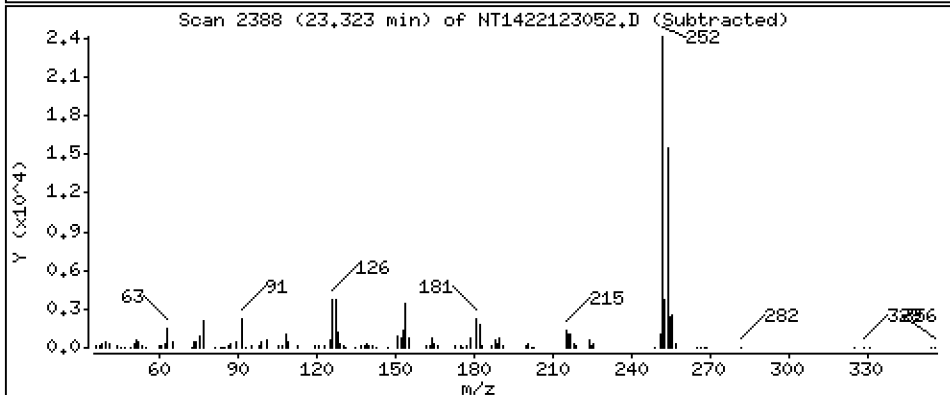
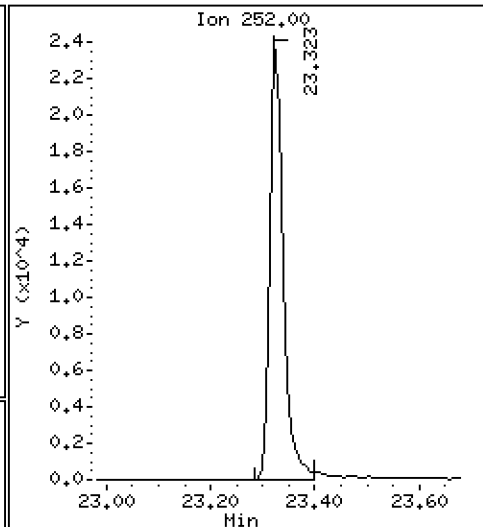
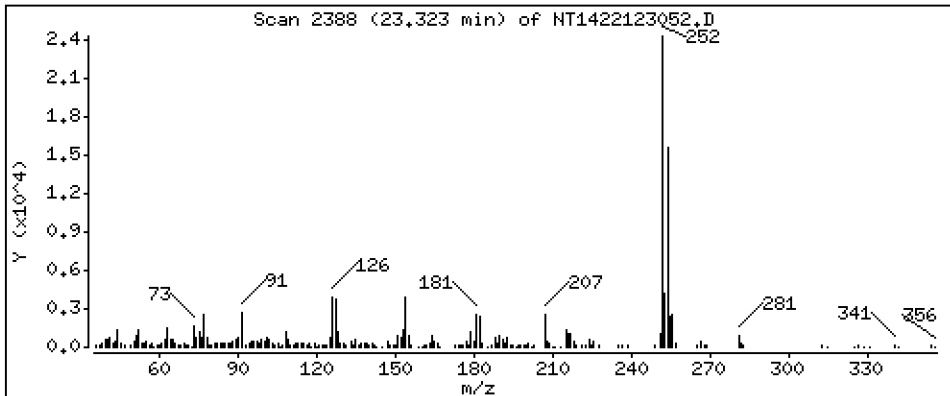
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,479 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

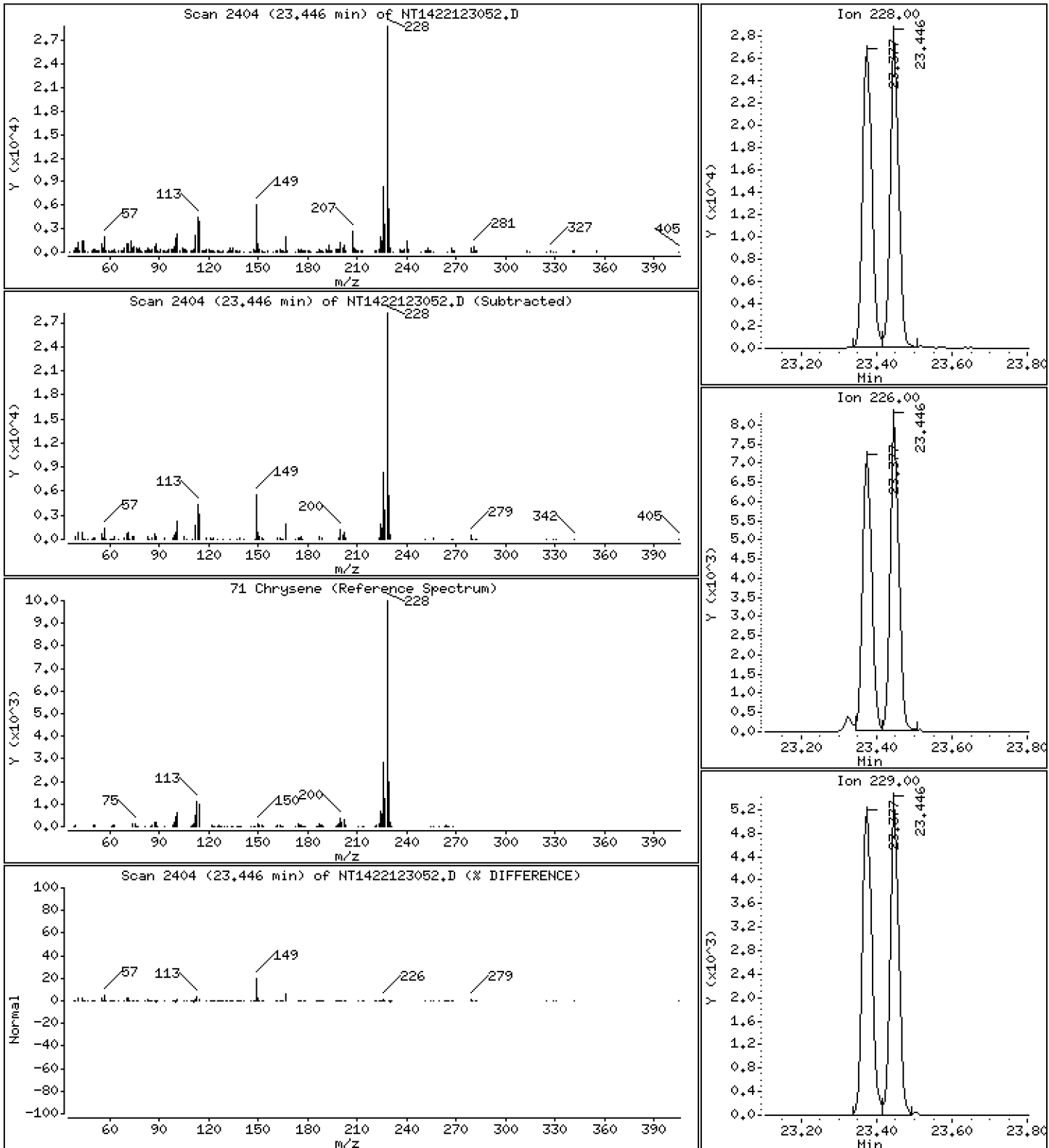
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,4899 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

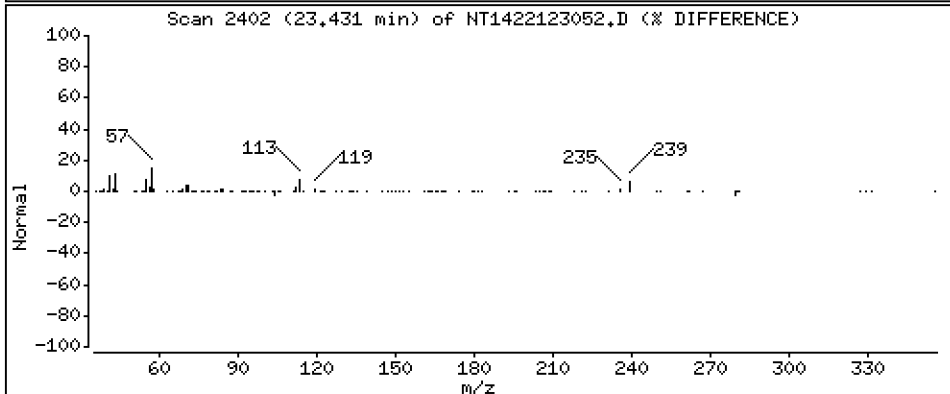
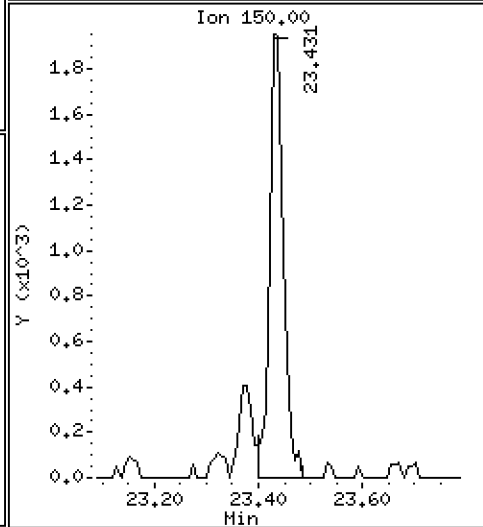
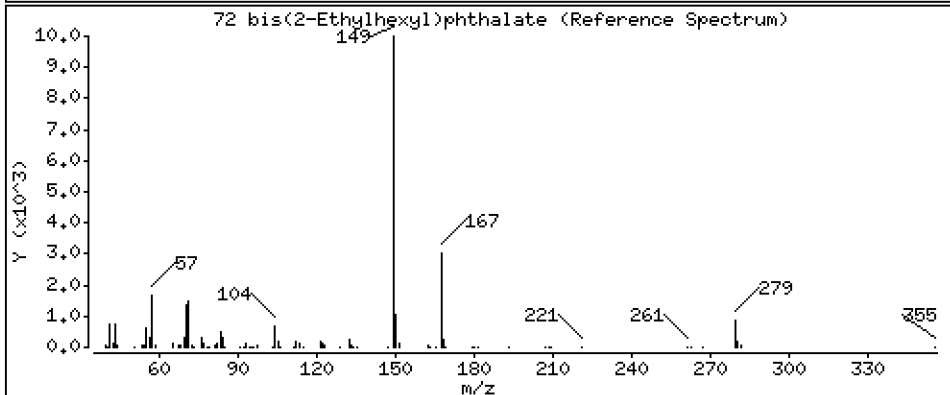
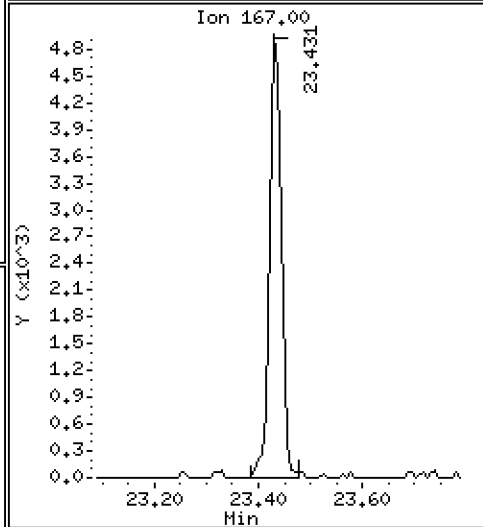
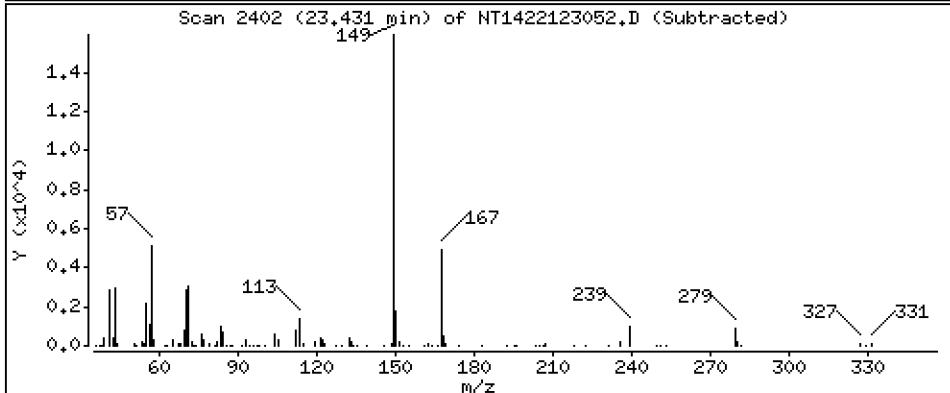
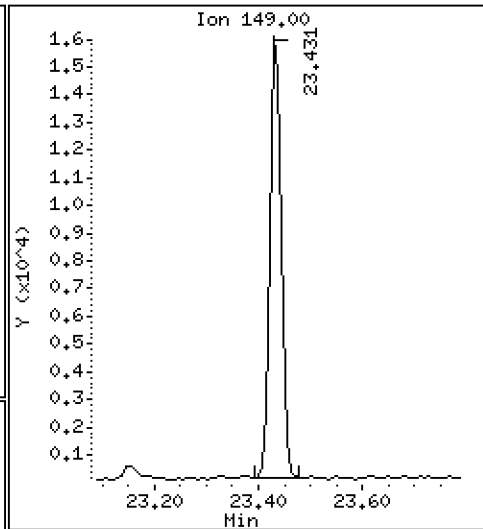
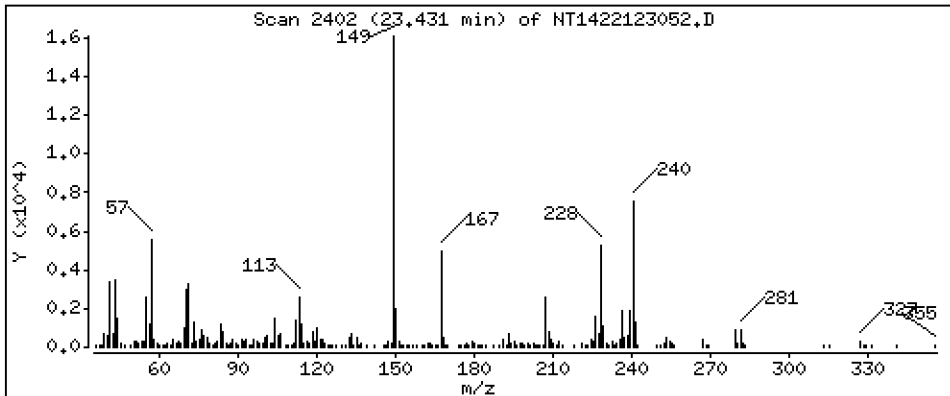
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4704 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

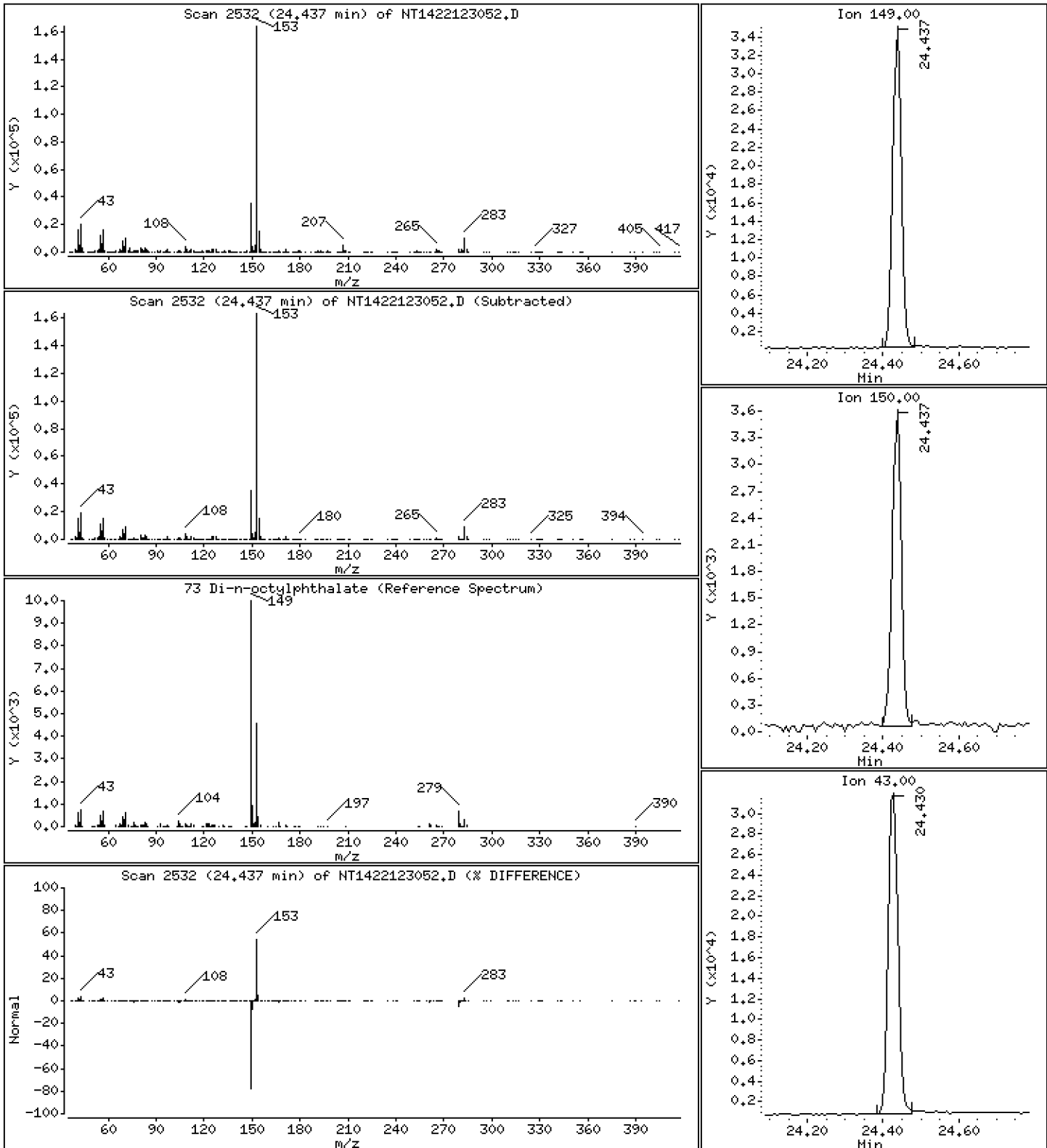
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,4879 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

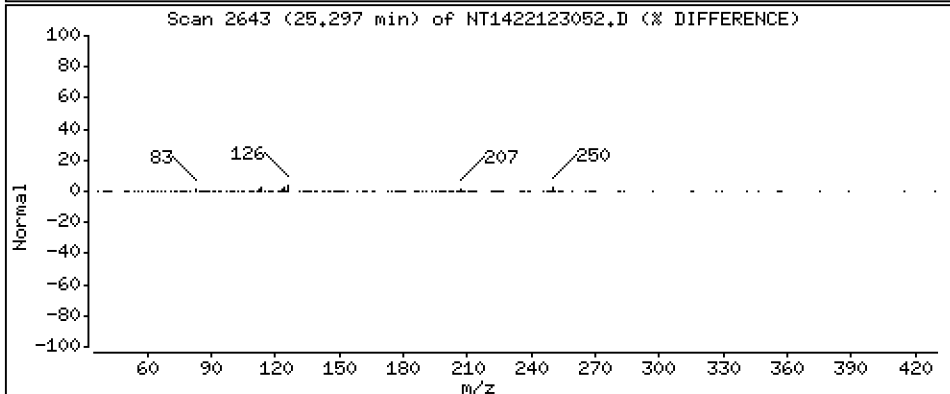
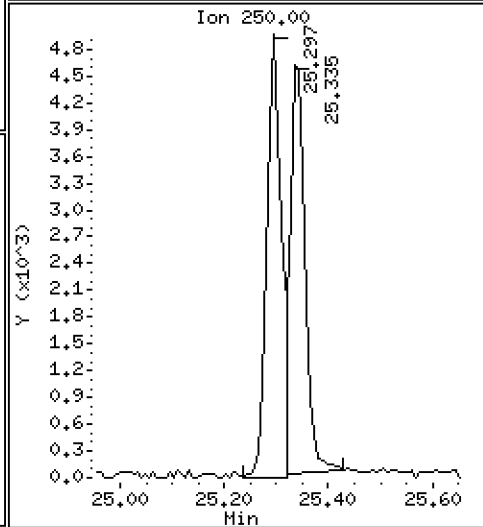
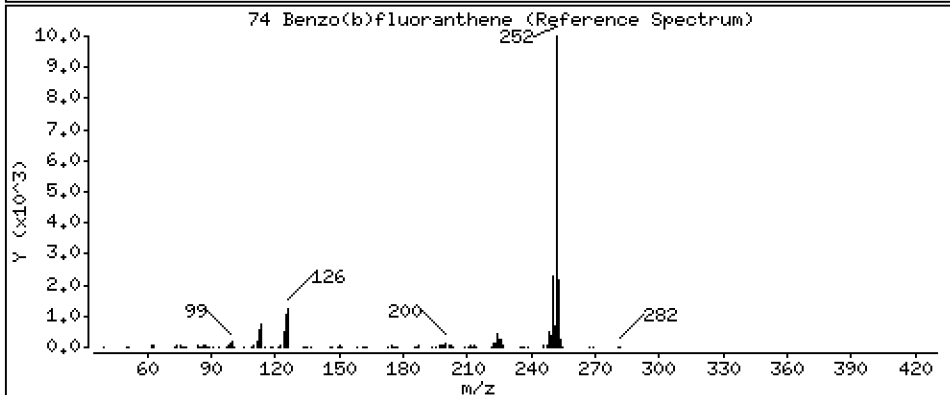
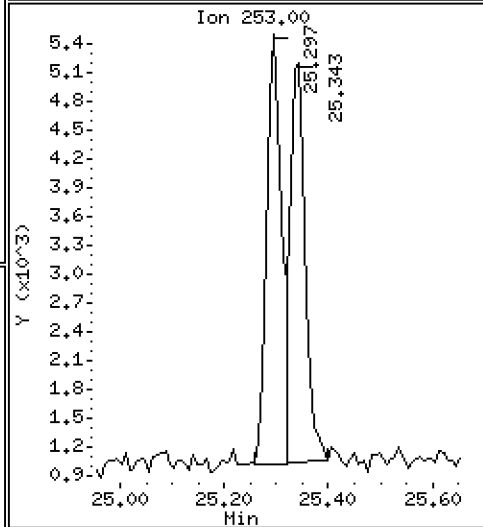
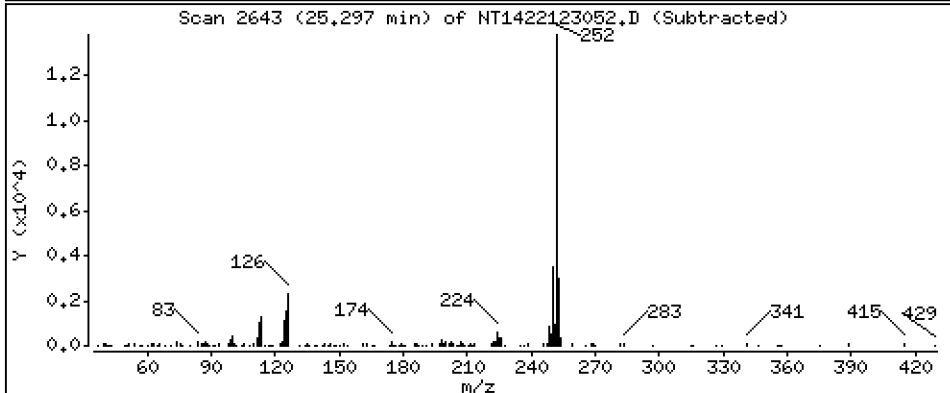
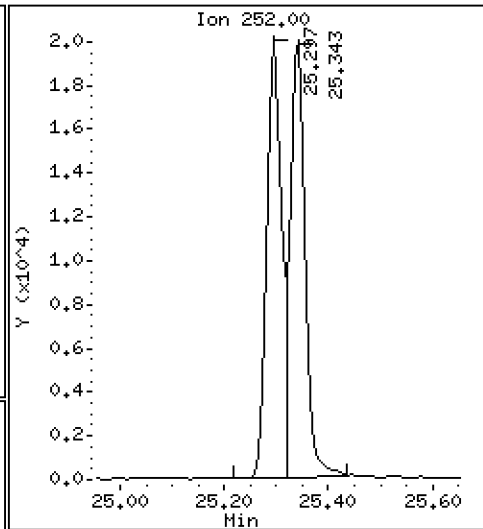
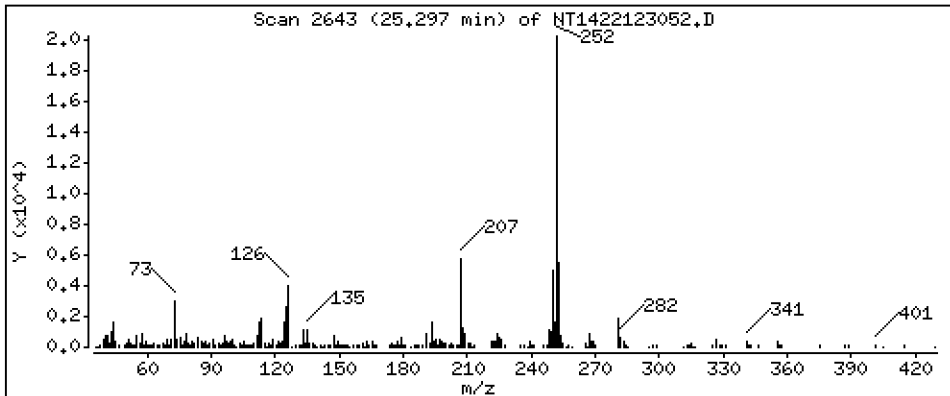
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5079 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

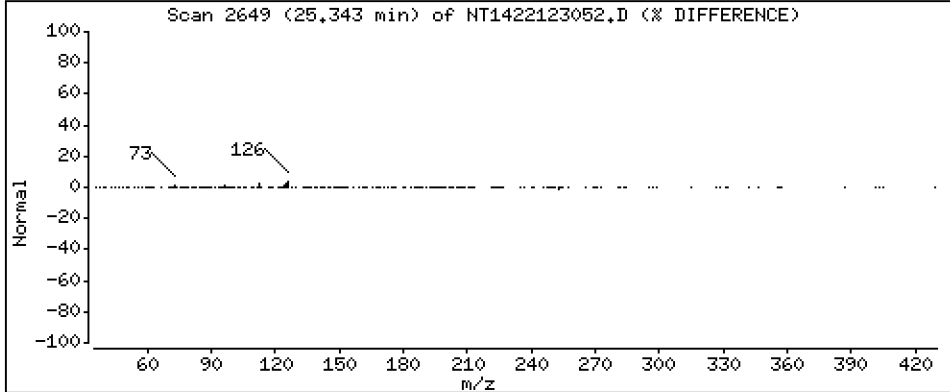
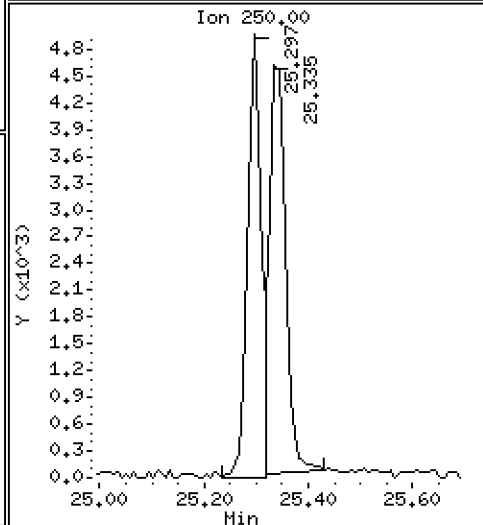
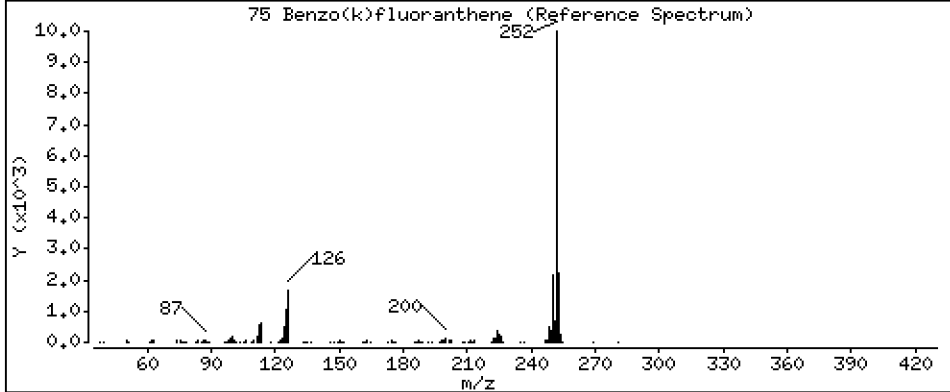
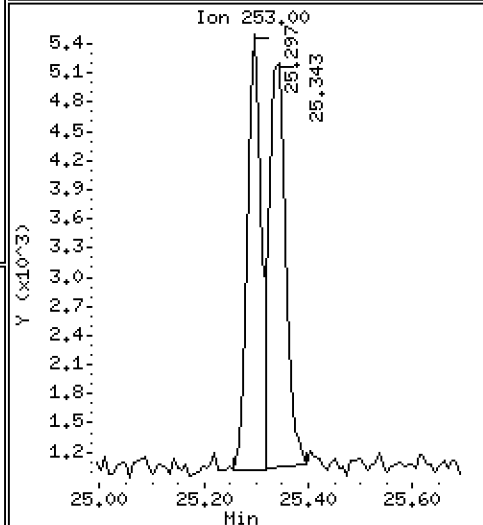
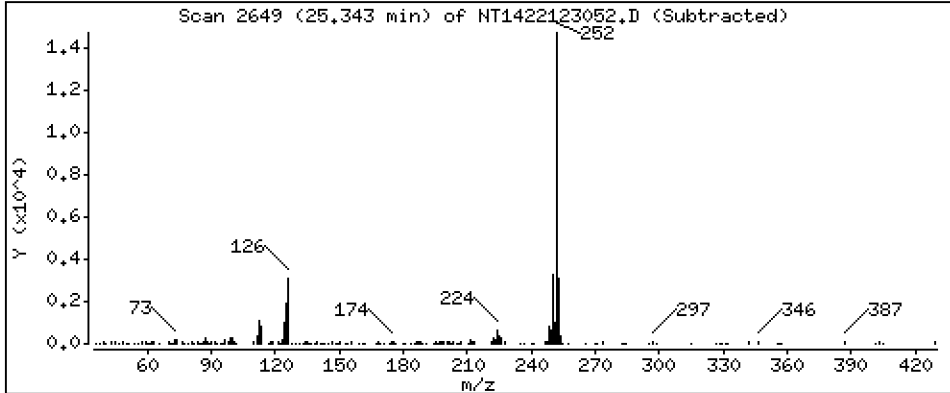
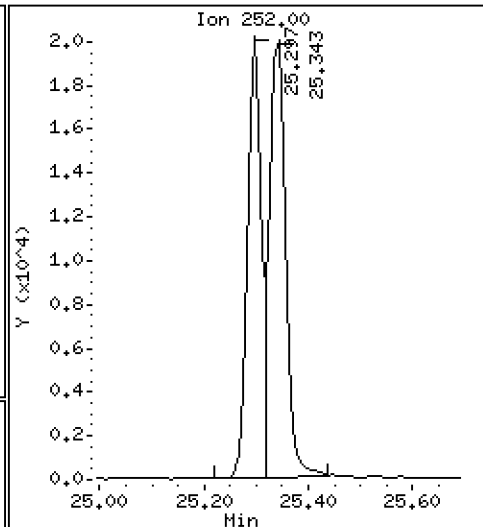
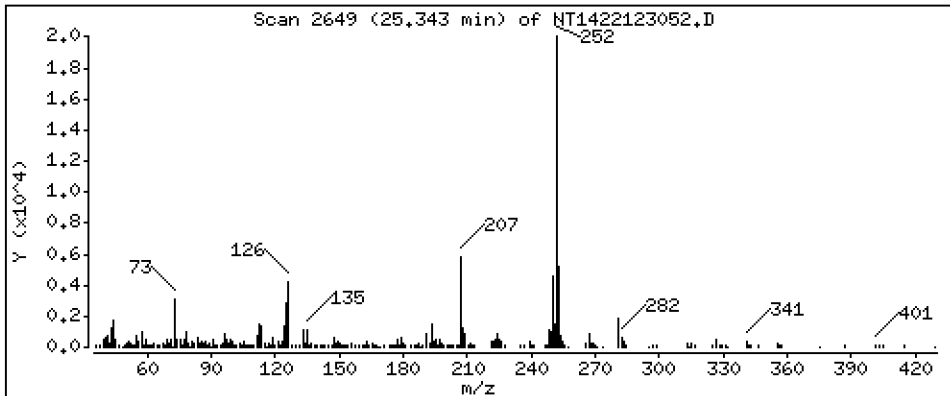
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5155 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

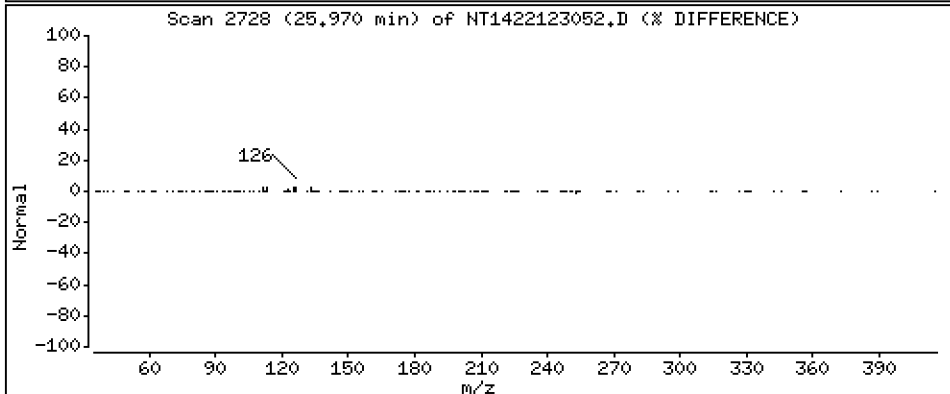
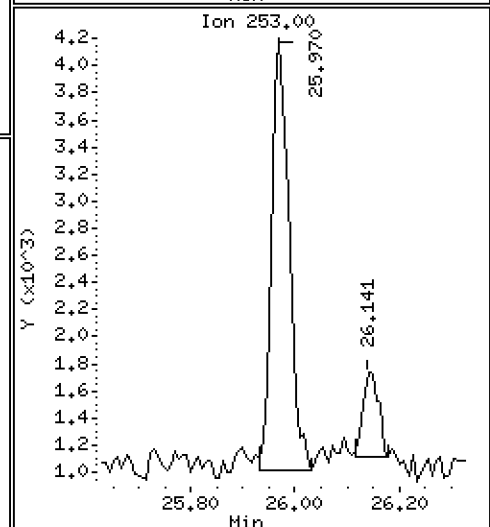
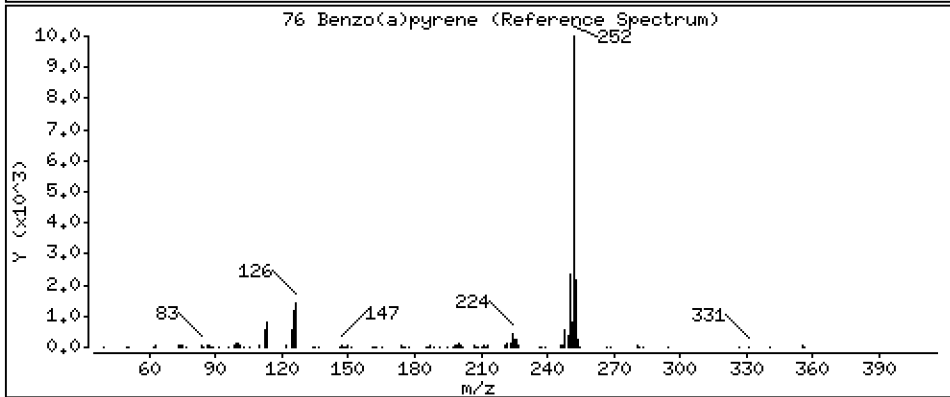
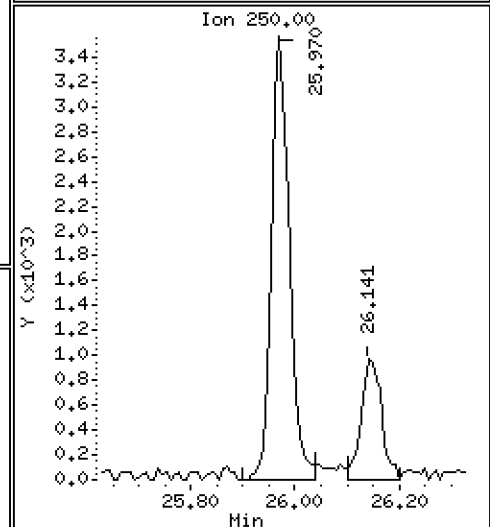
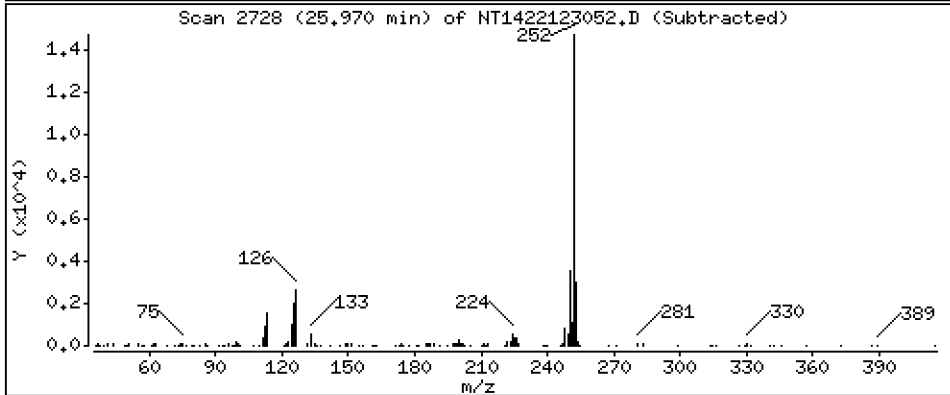
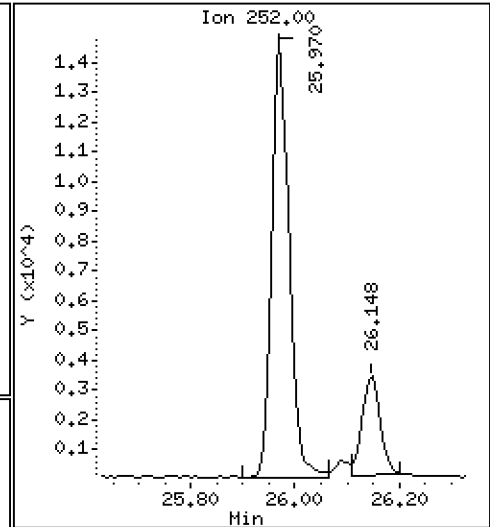
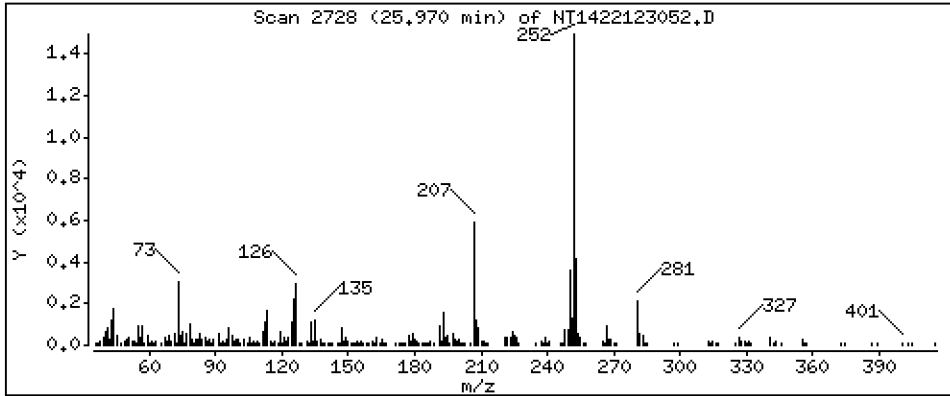
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5015 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

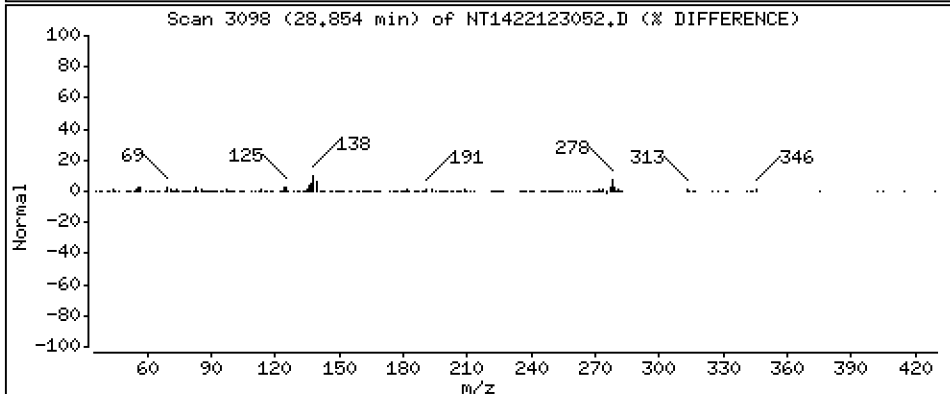
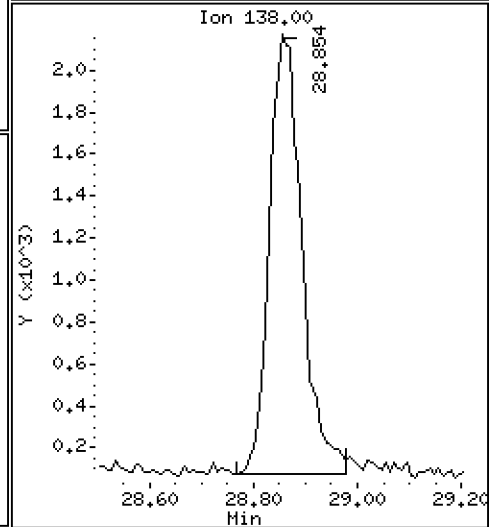
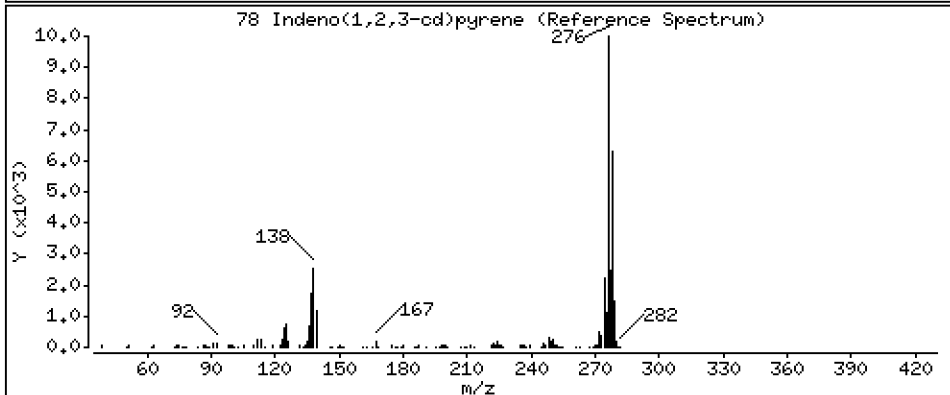
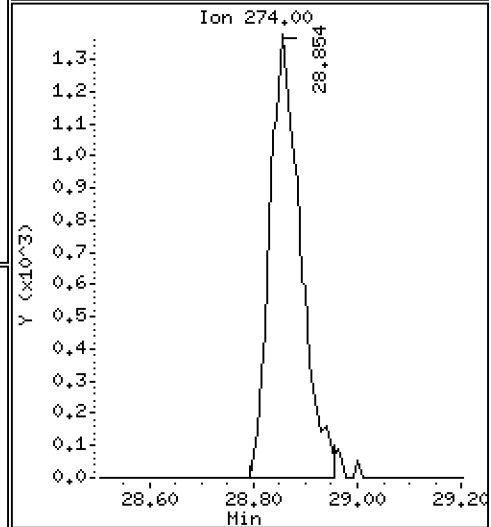
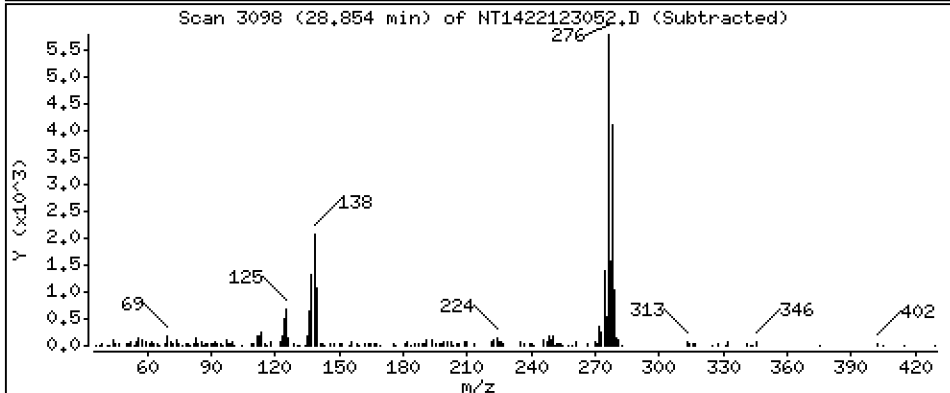
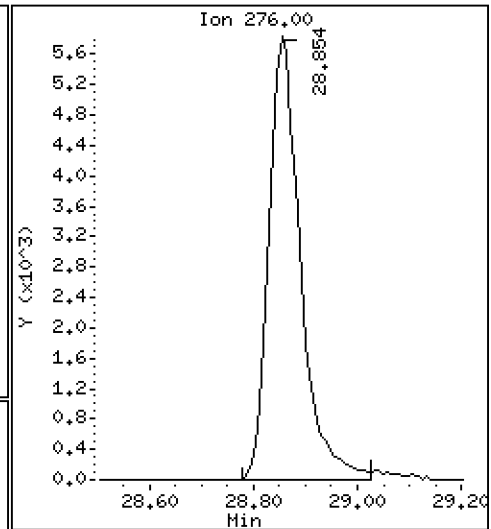
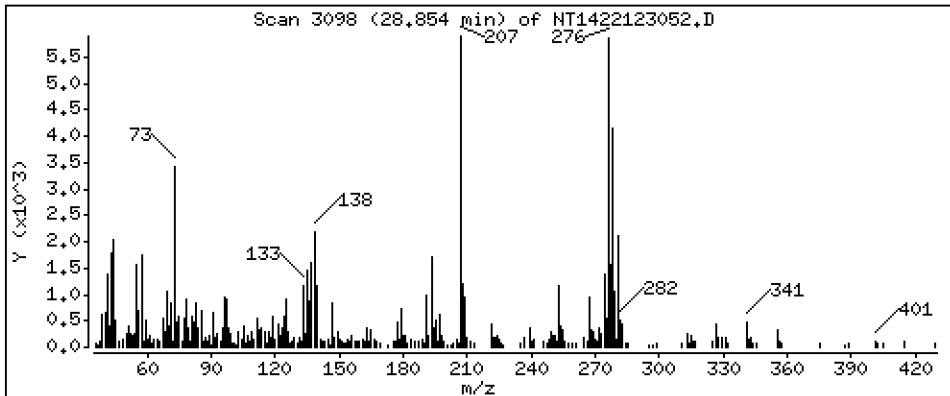
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,3235 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

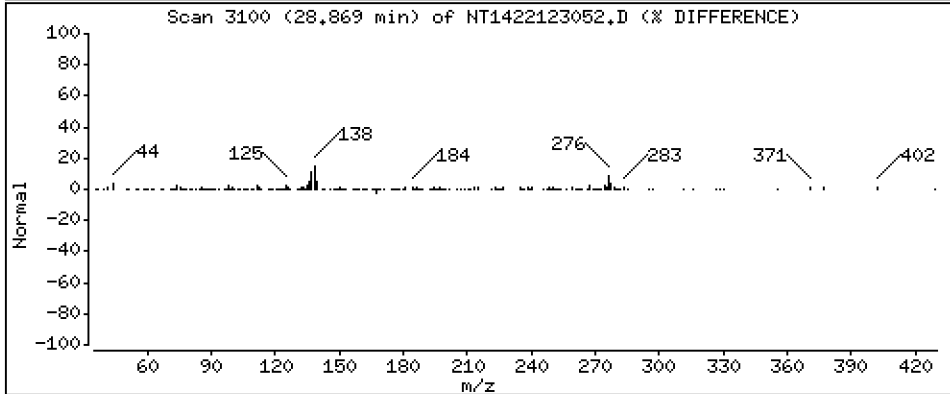
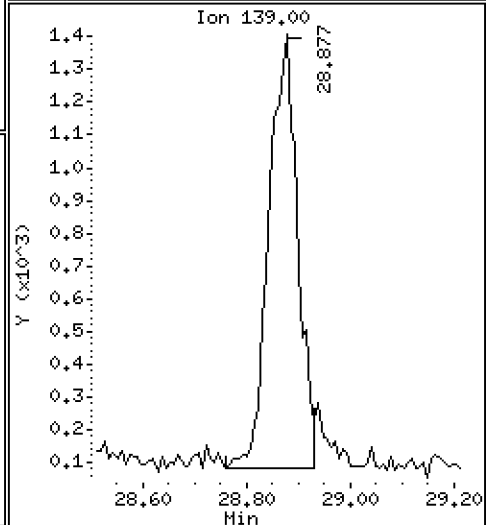
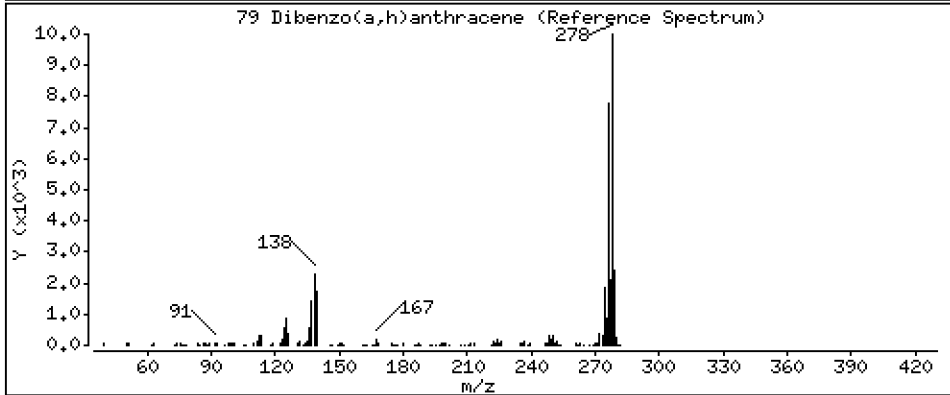
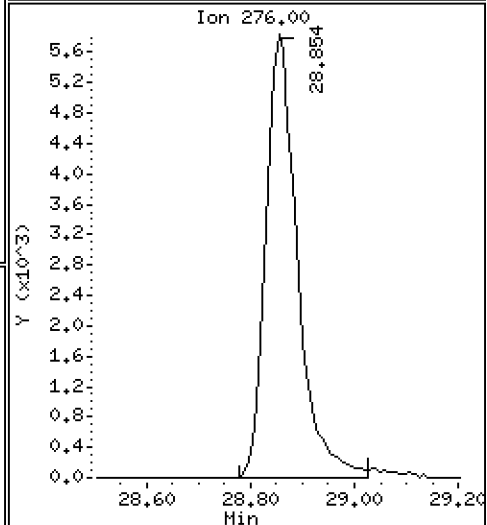
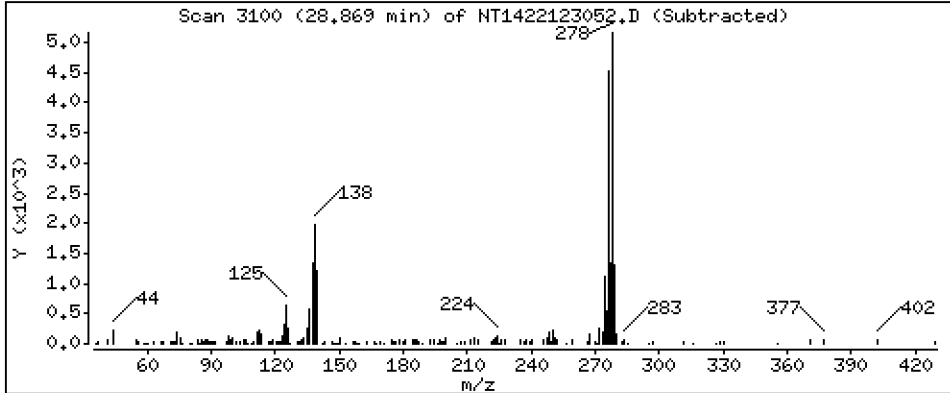
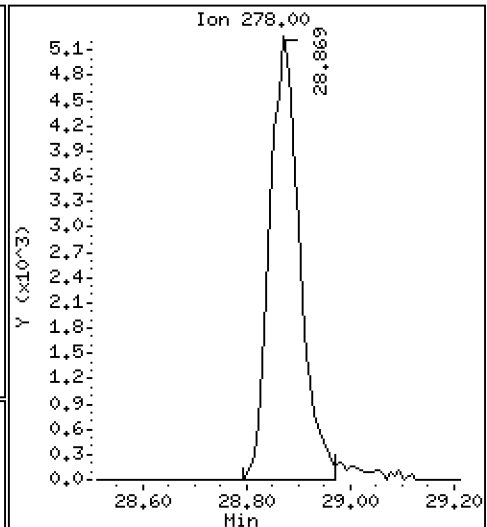
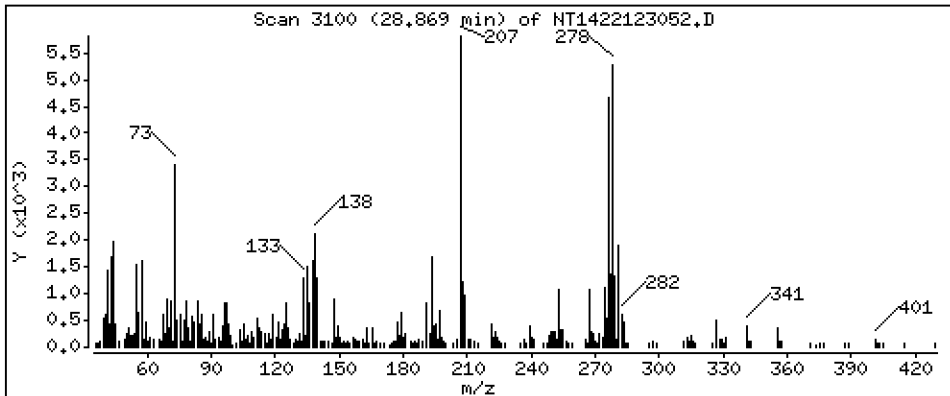
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3297 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

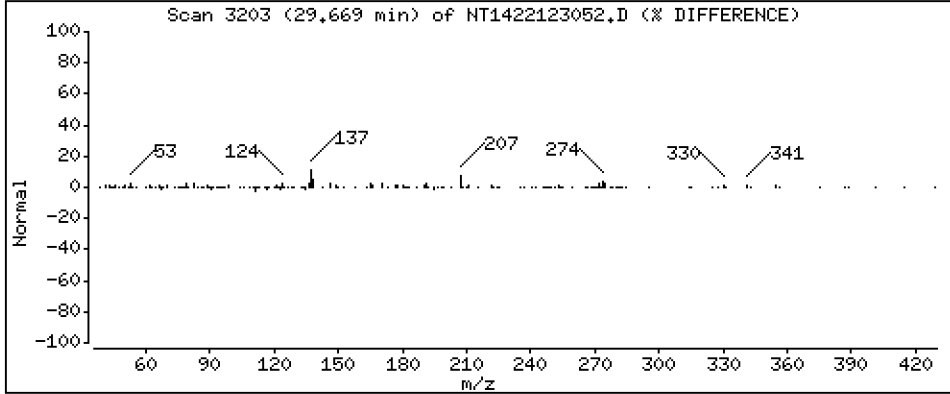
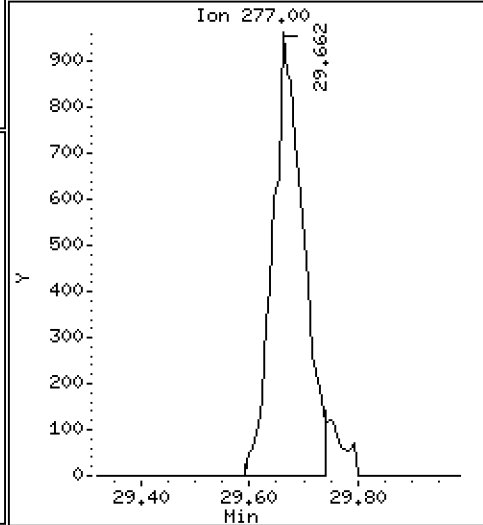
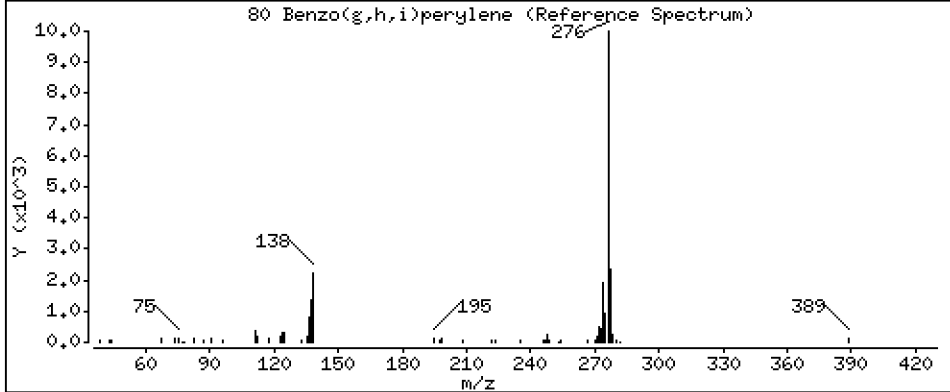
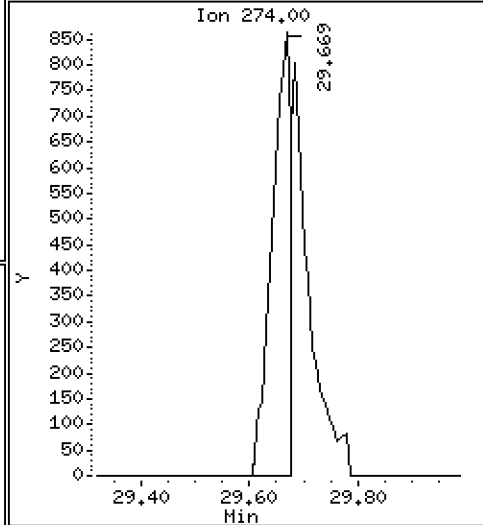
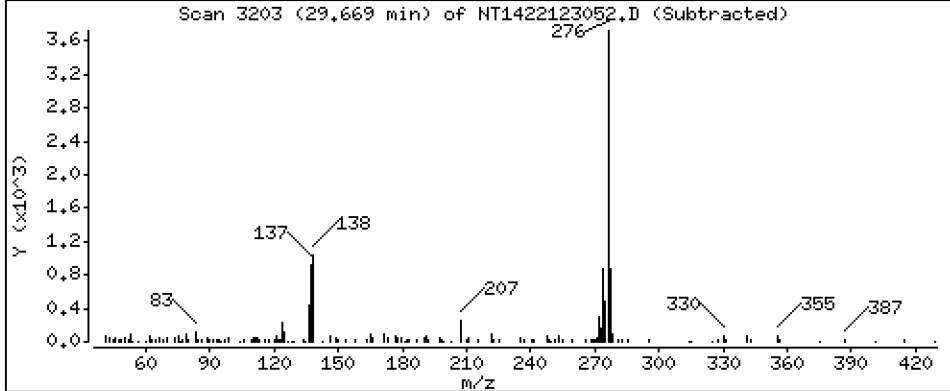
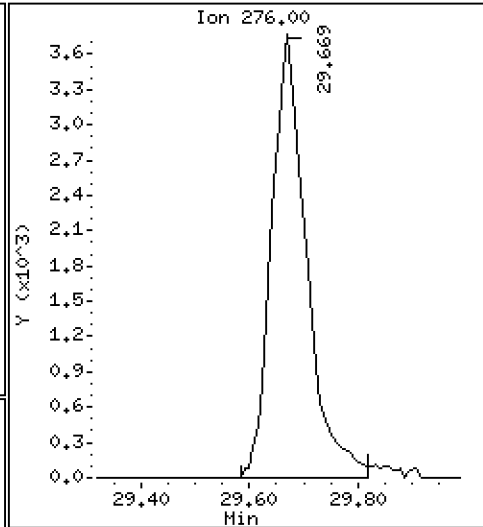
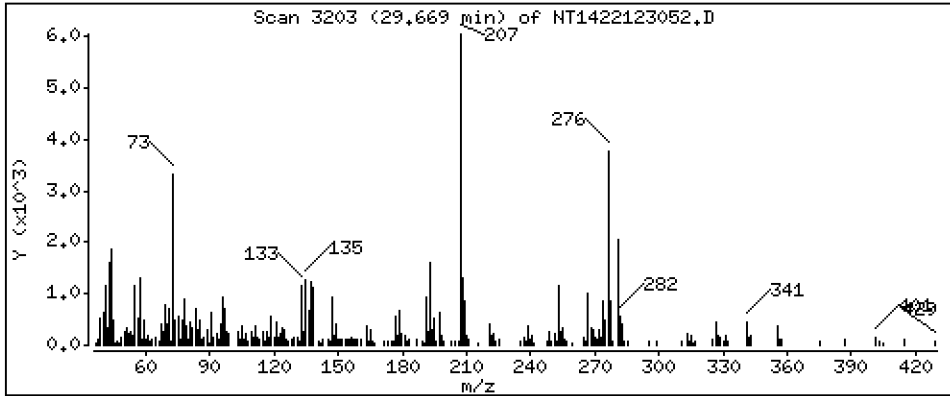
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2675 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

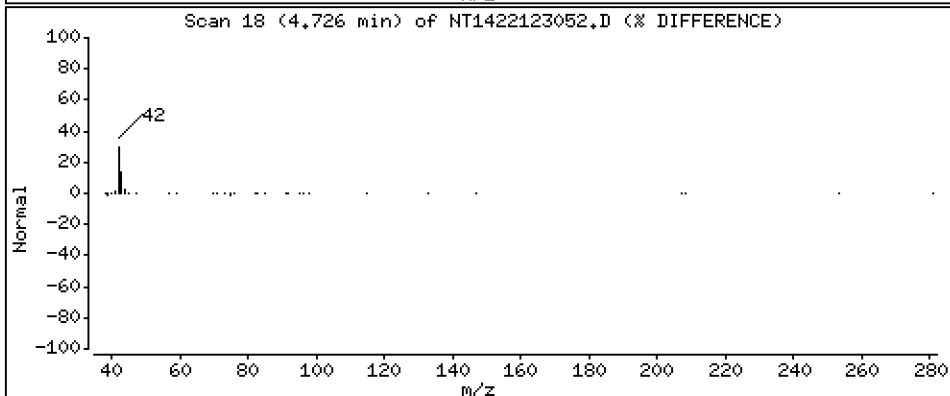
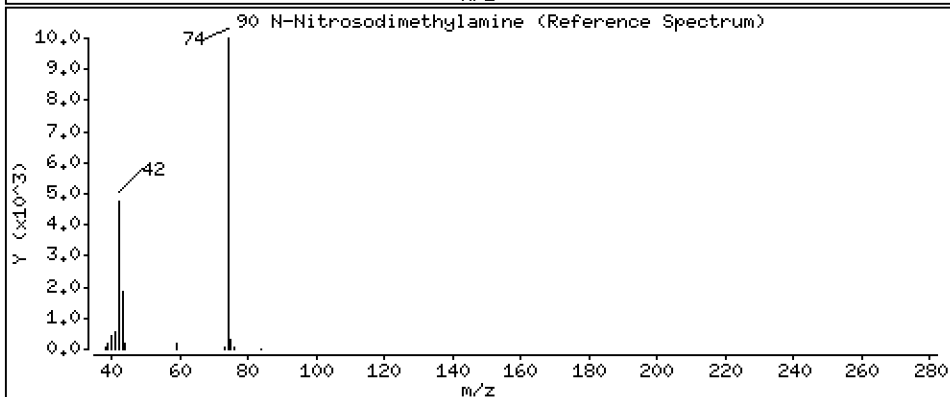
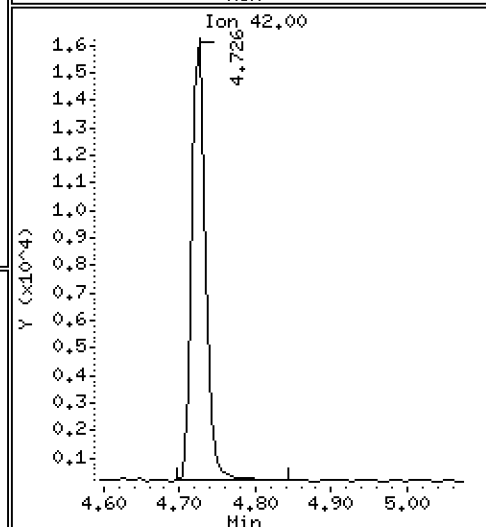
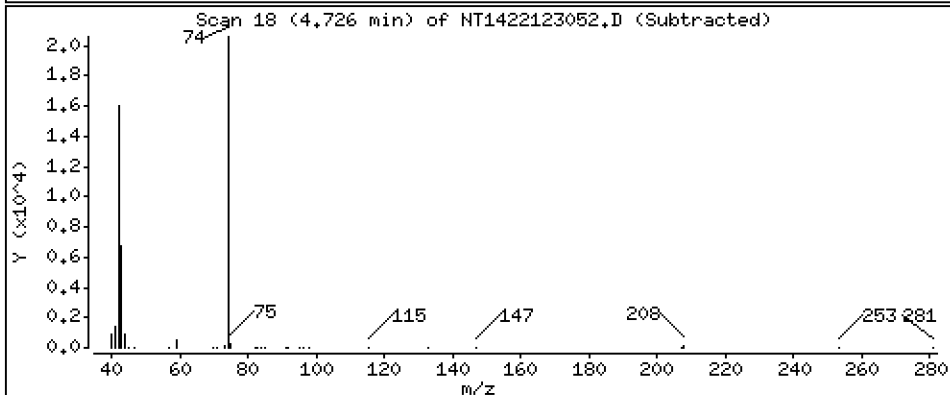
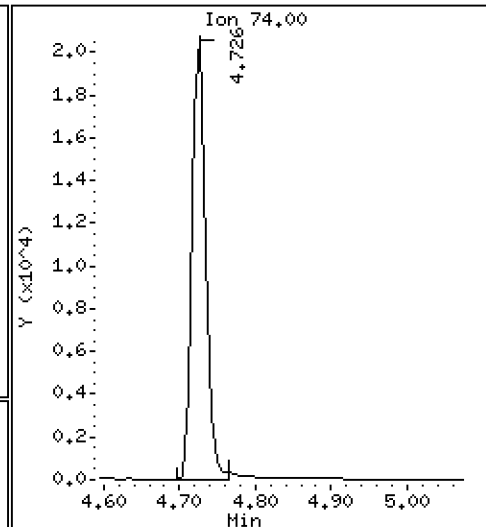
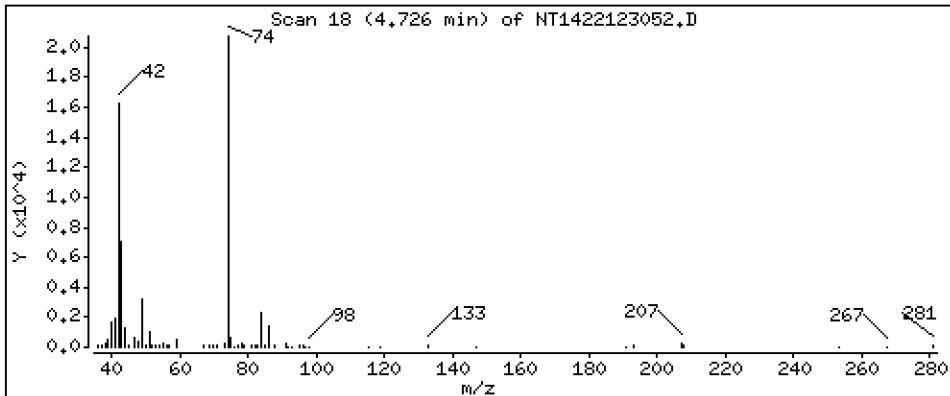
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,002 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

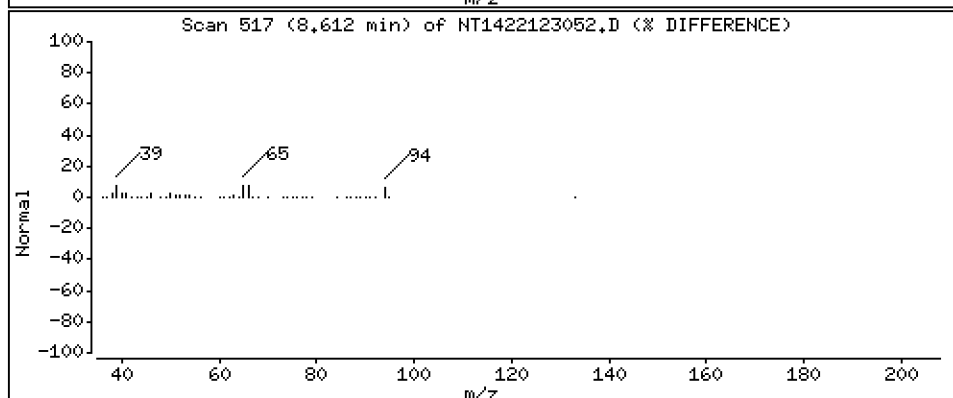
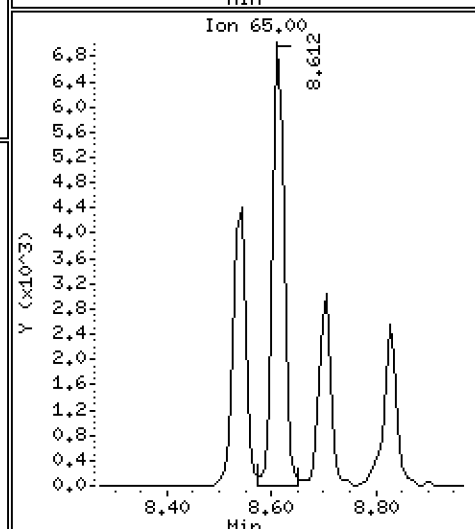
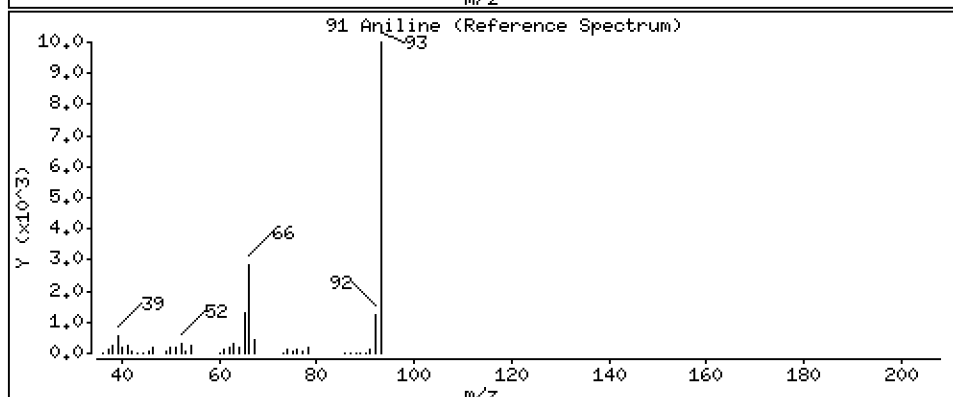
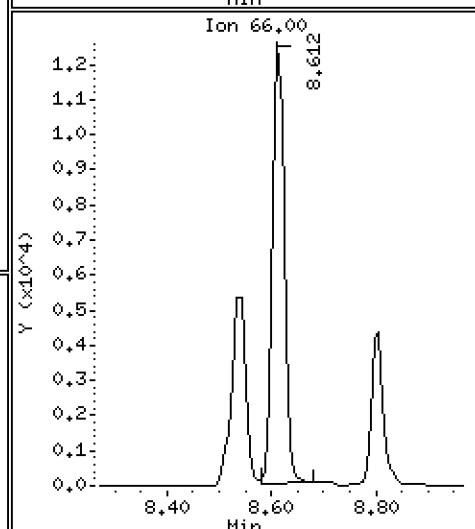
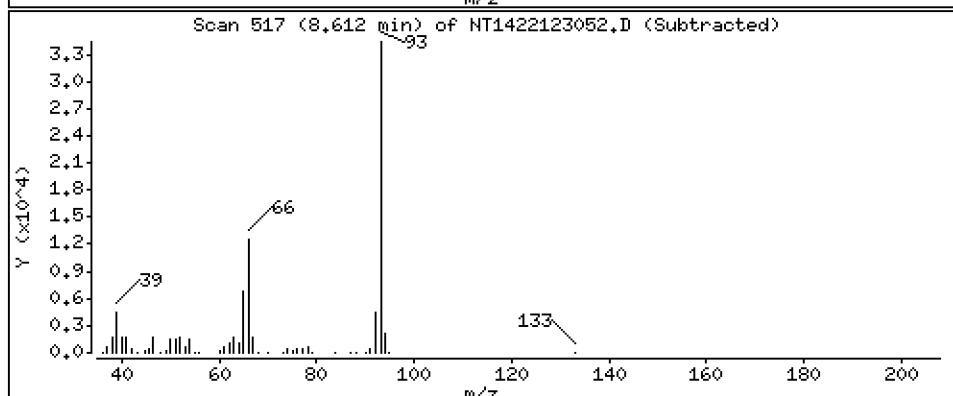
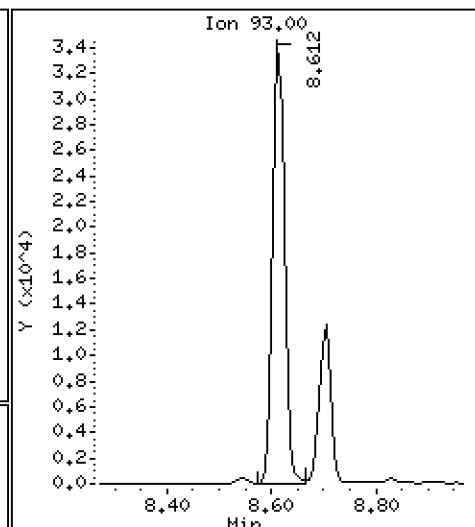
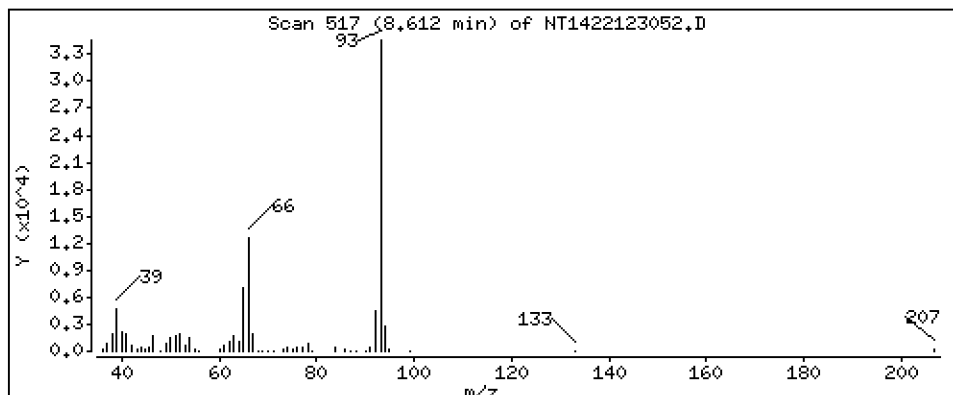
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9702 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

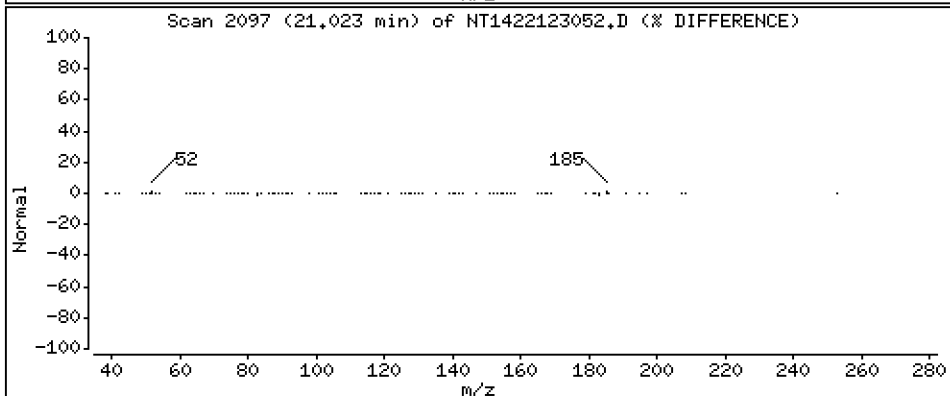
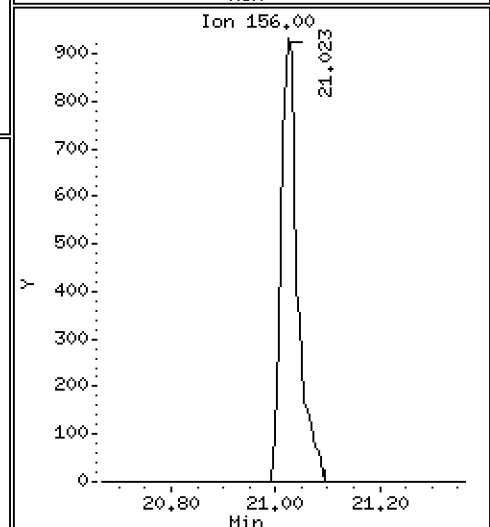
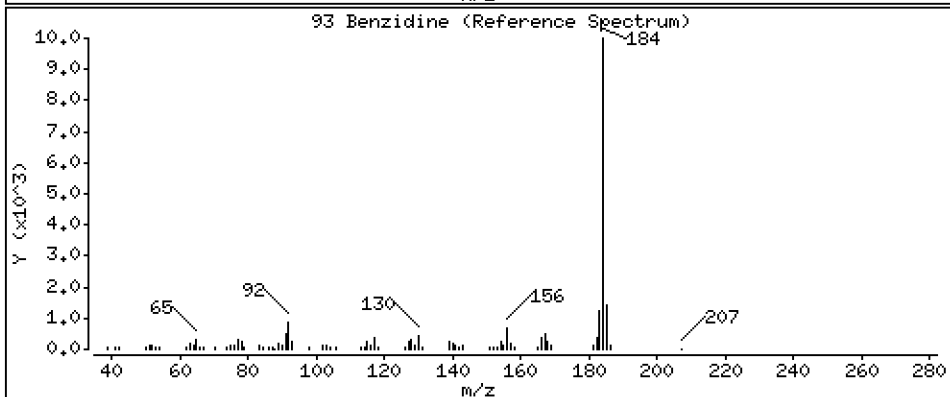
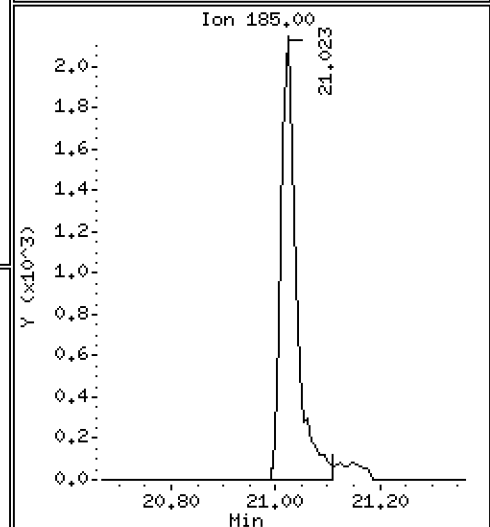
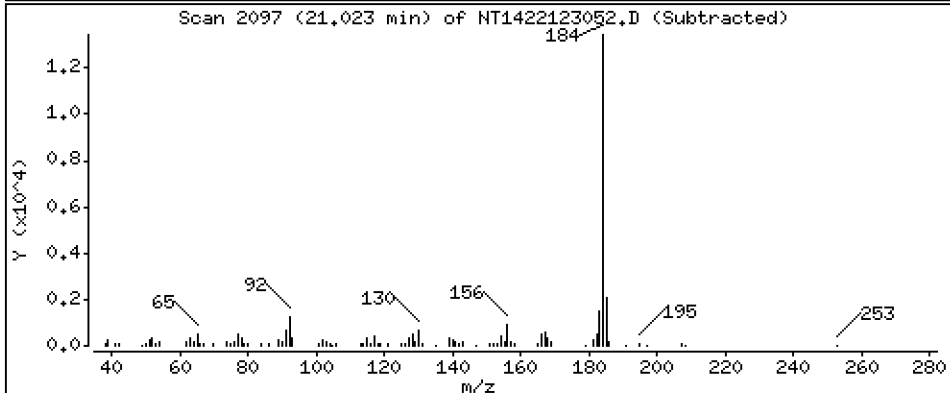
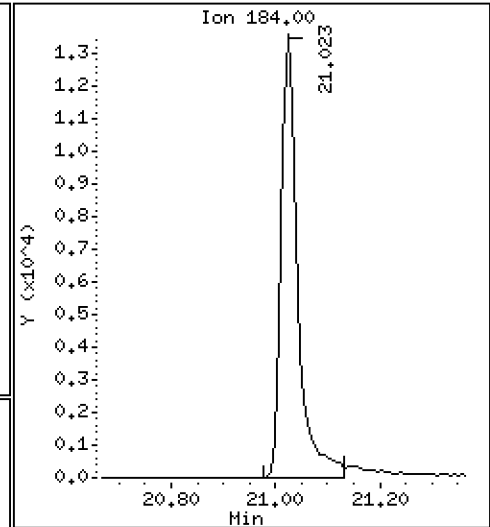
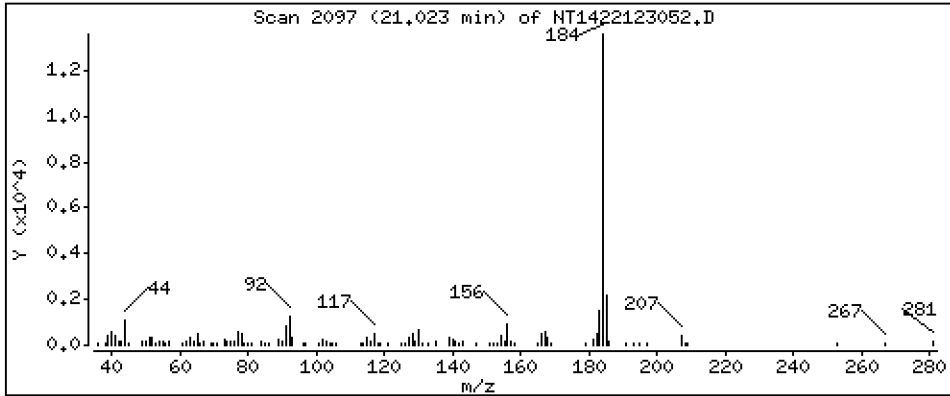
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,8039 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

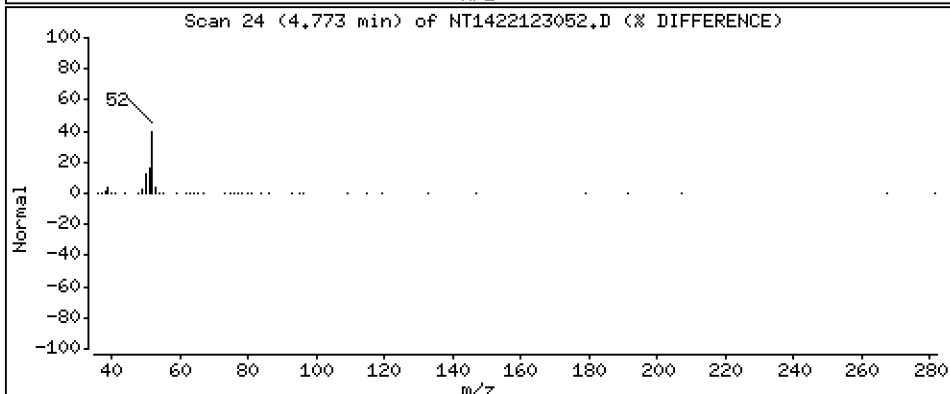
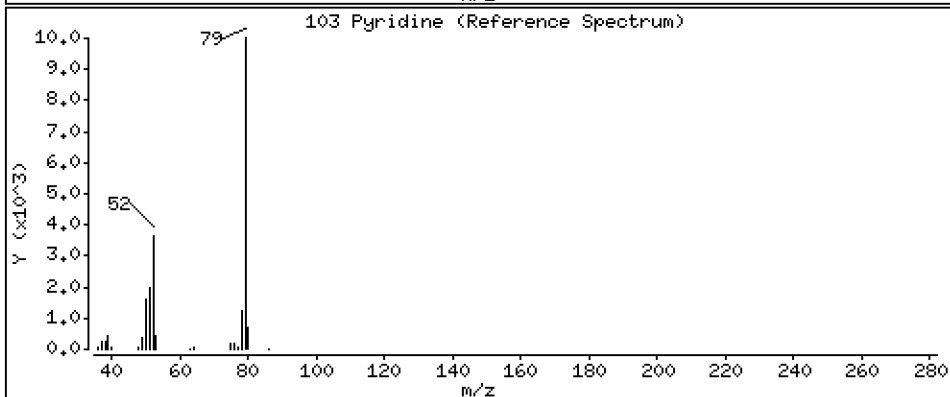
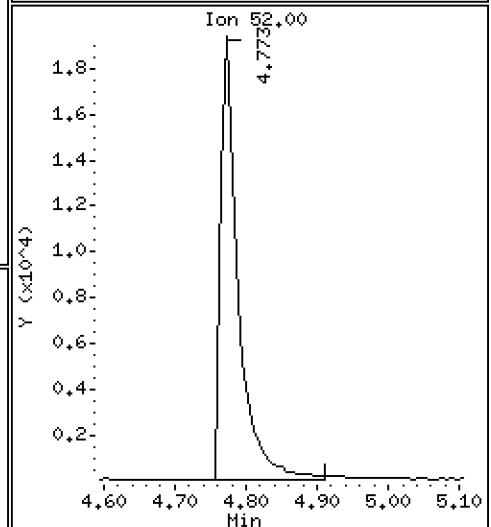
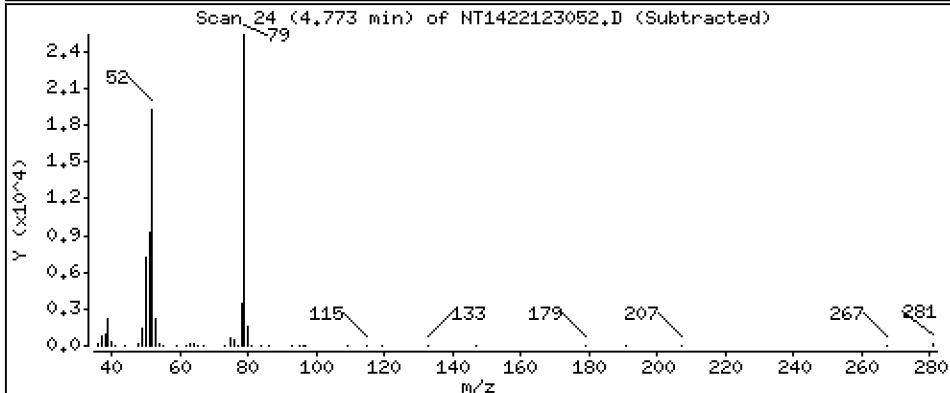
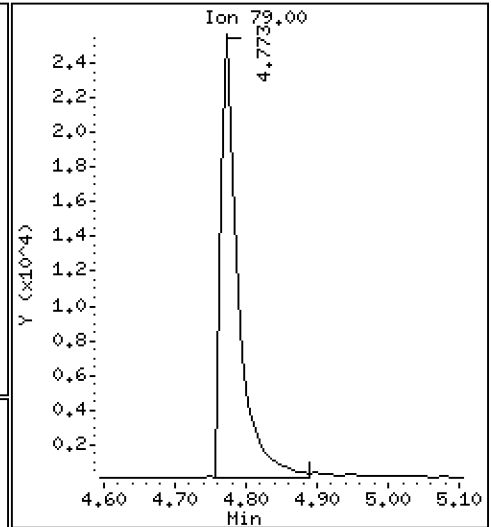
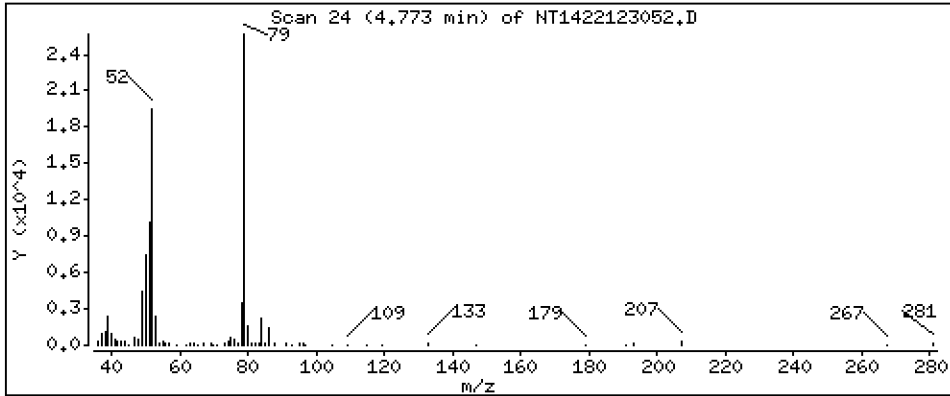
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5100 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

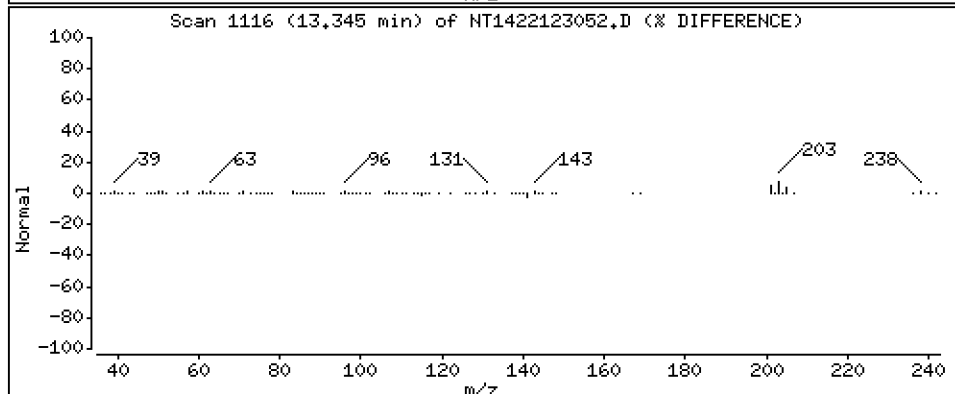
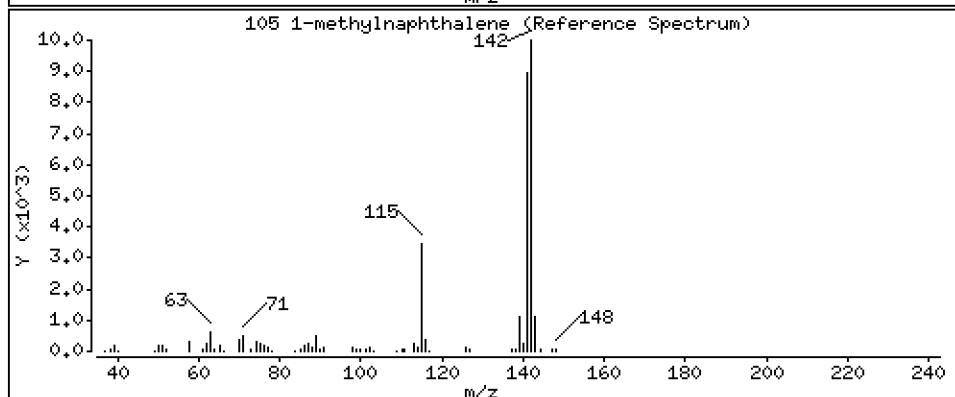
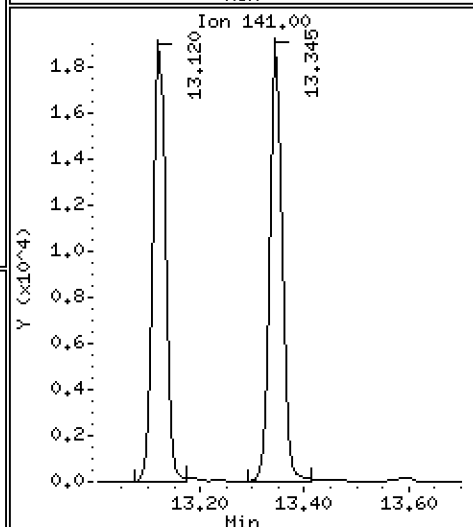
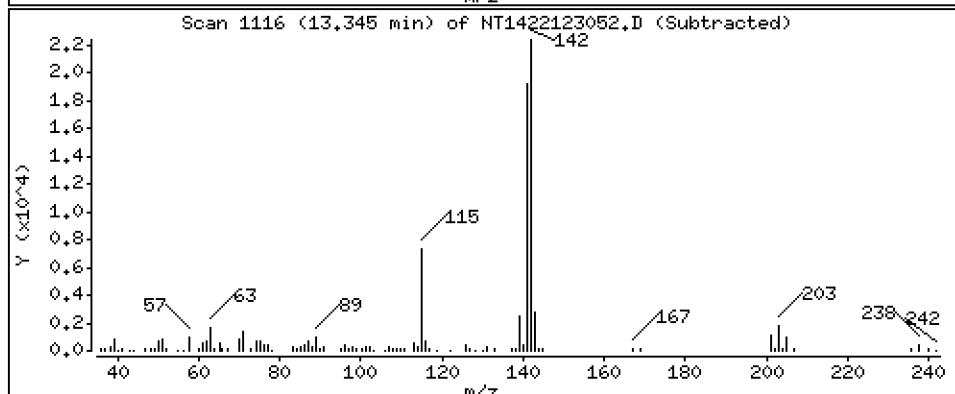
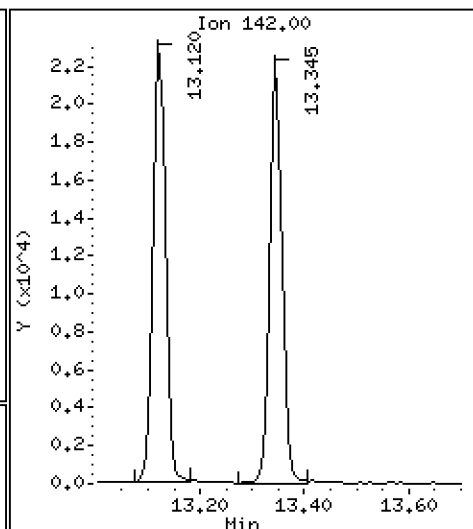
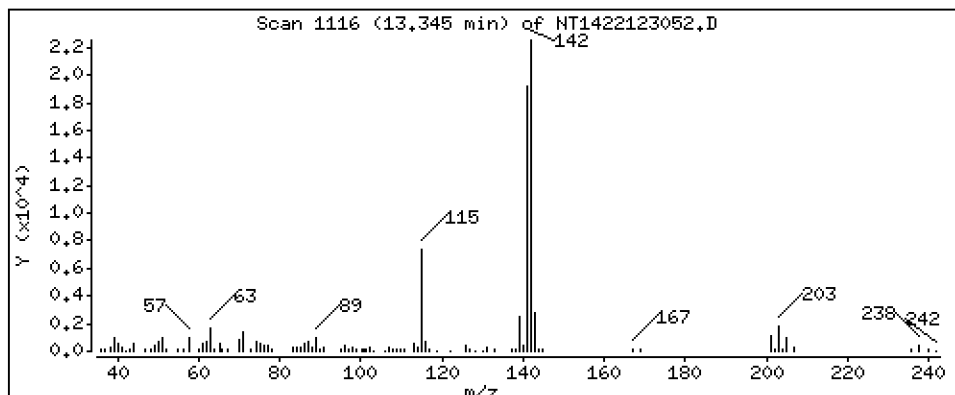
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4765 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

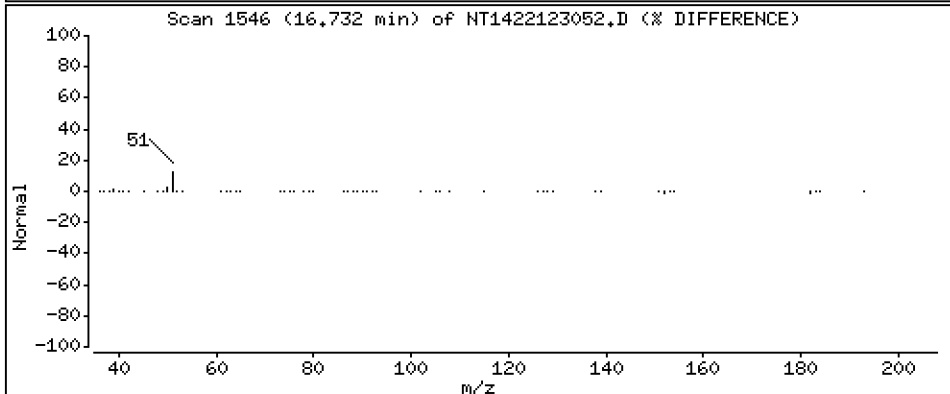
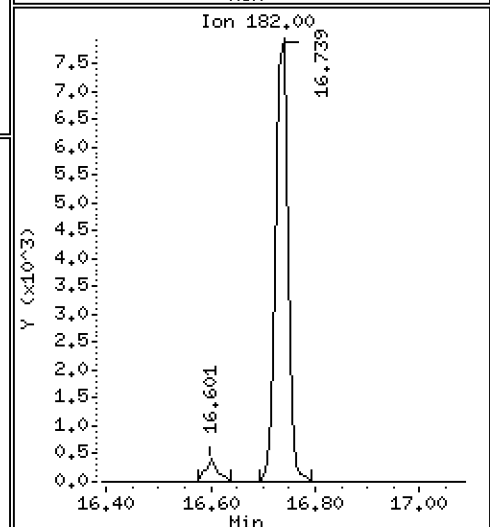
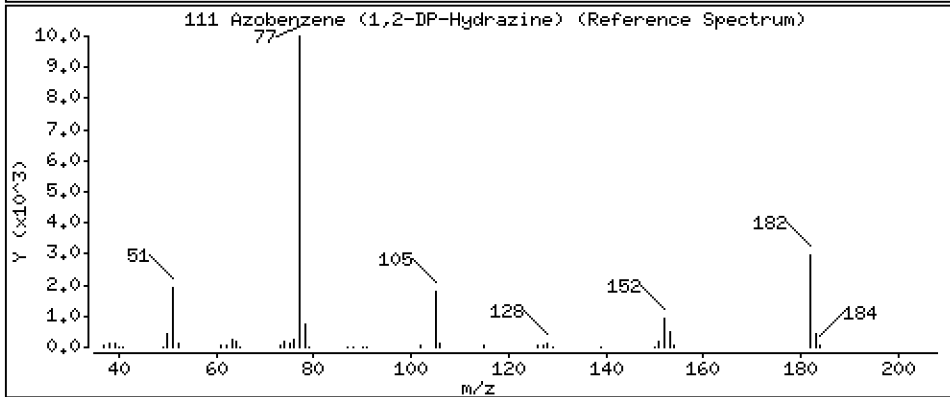
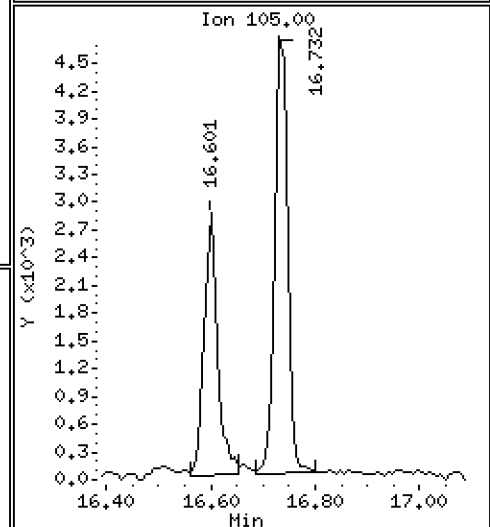
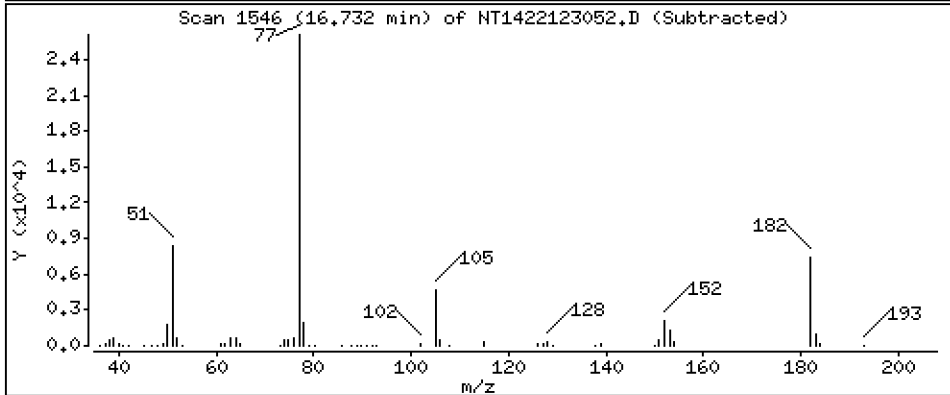
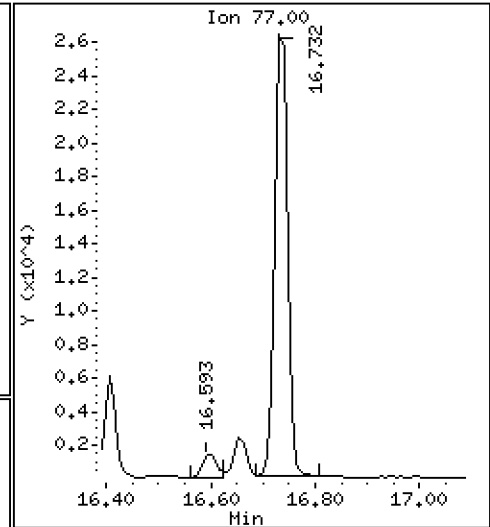
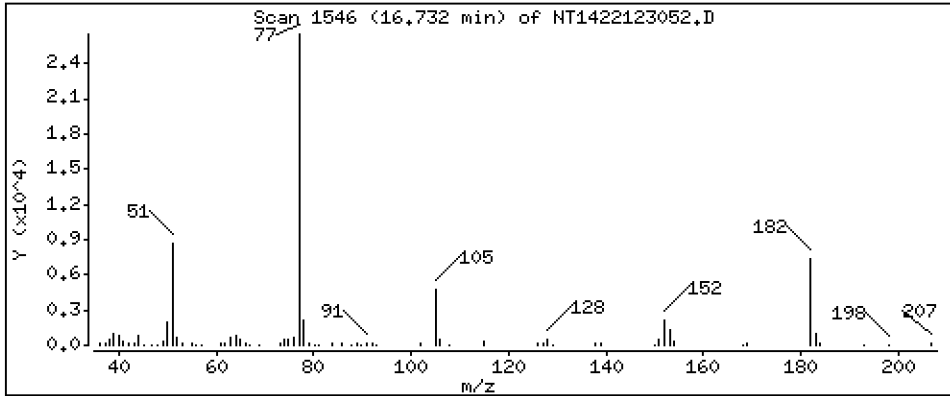
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0.5124 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

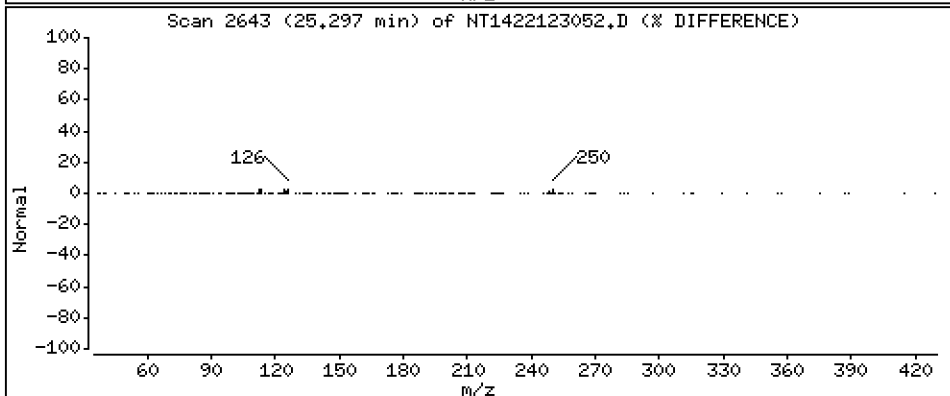
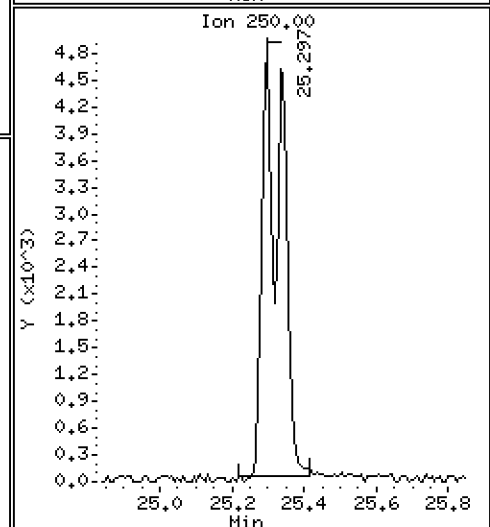
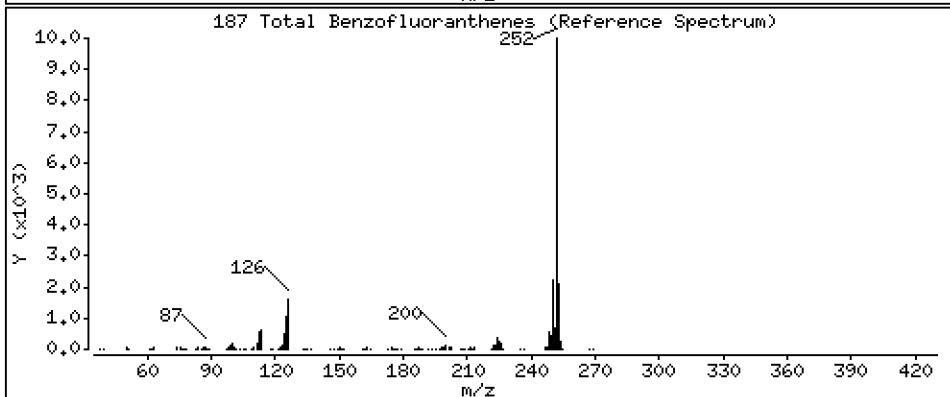
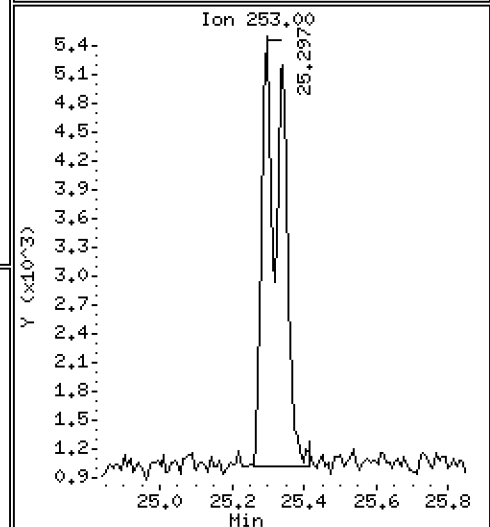
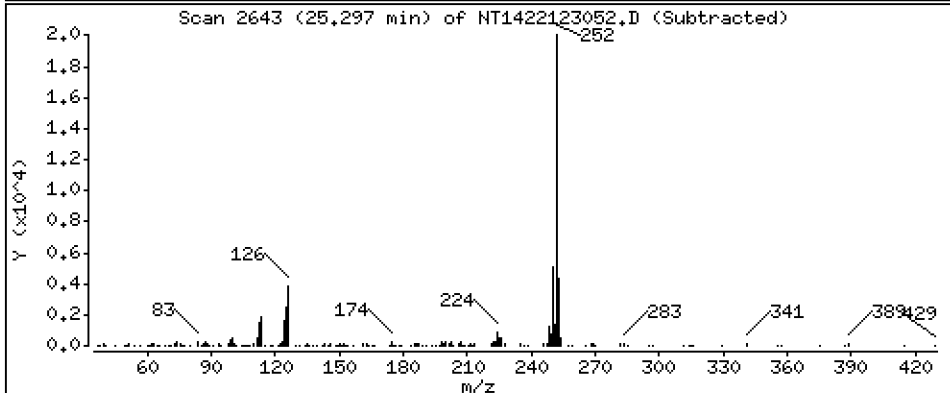
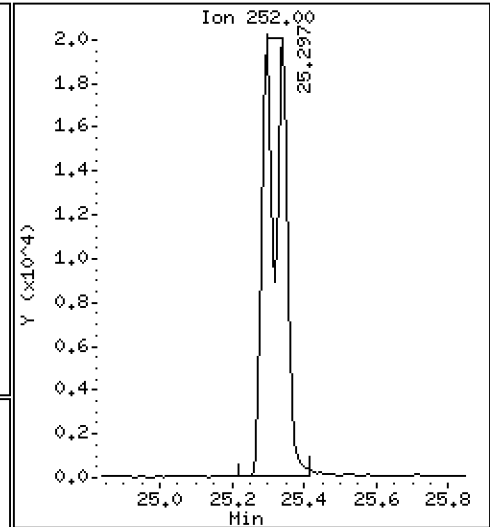
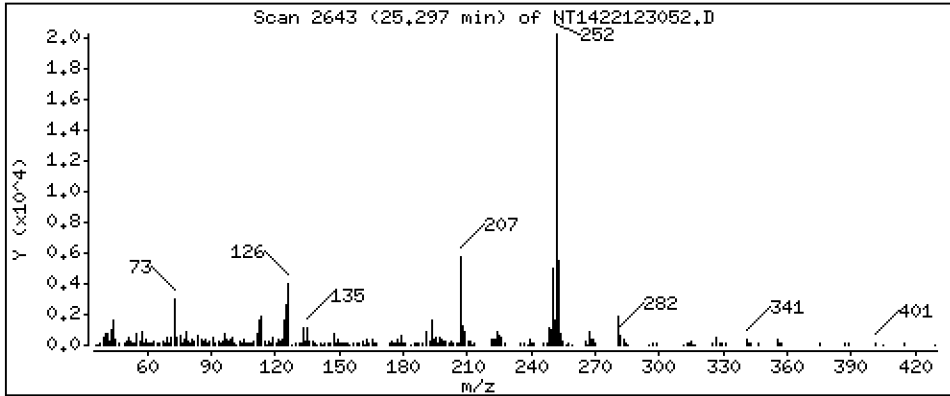
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,022 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

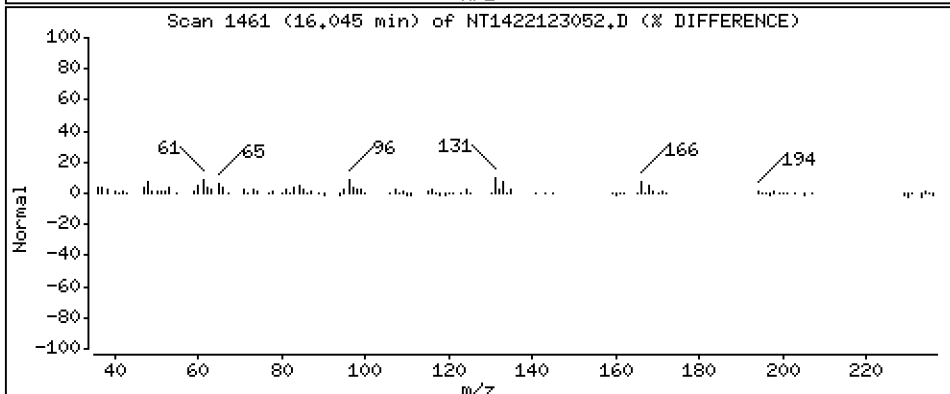
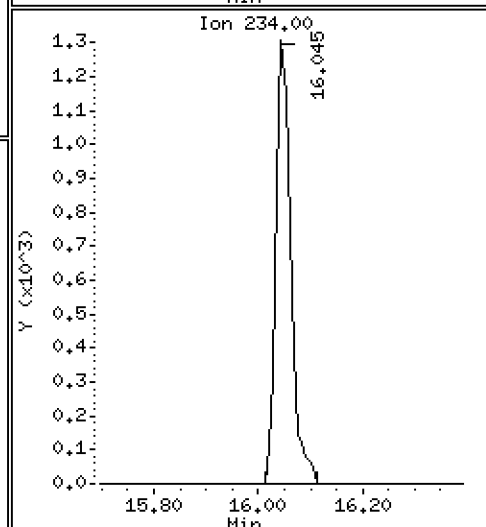
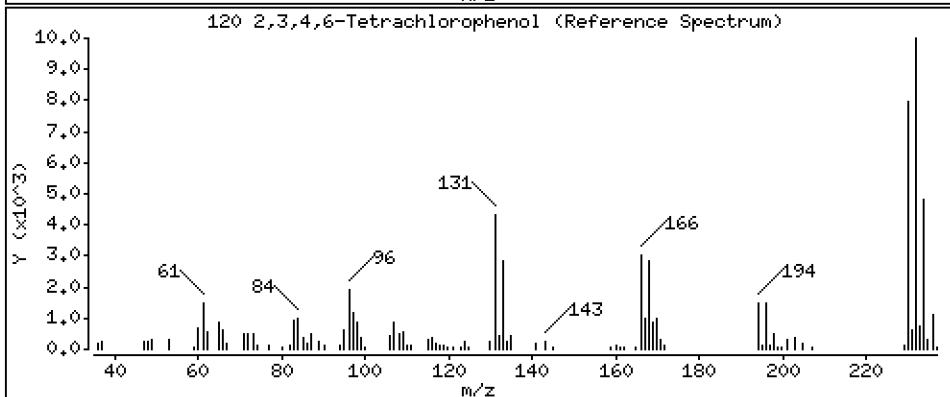
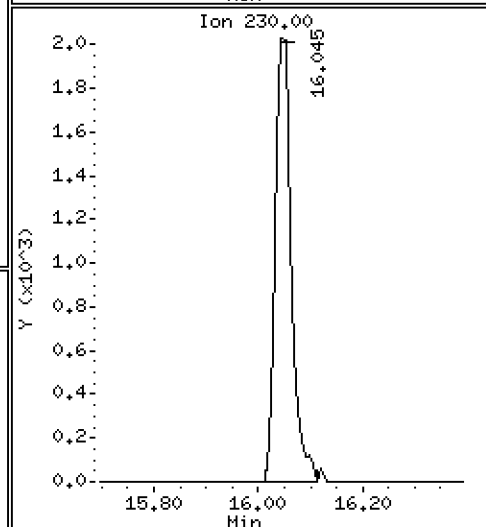
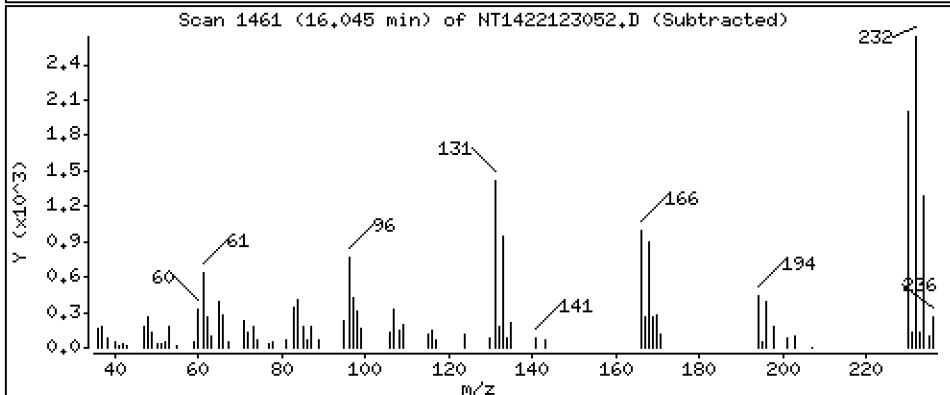
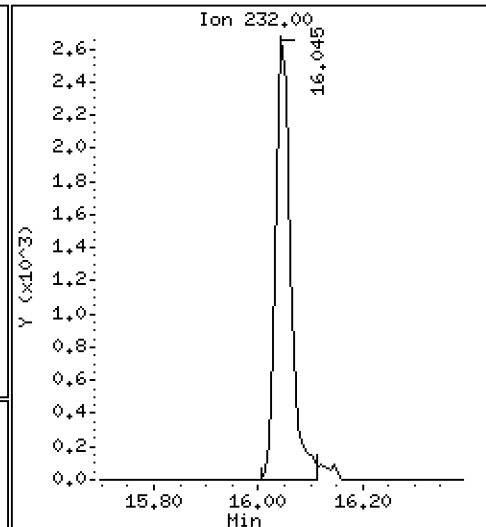
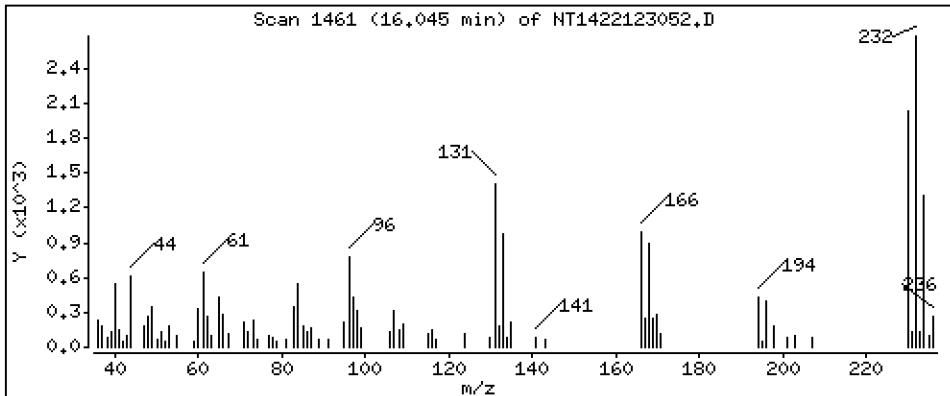
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3296 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
 Lab Smp Id: SKL0356-LCV2
 Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0356-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.927	(0.755)	27373	0.71127	0.7113
\$ 2 Phenol-d5	99		8.519	8.519	(0.929)	31285	0.65780	0.6578
3 Phenol	94		8.542	8.542	(0.932)	26016	0.48140	0.4814
\$ 5 2-Chlorophenol-d4	132		8.804	8.804	(0.960)	27396	0.68588	0.6859
4 Bis(2-Chloroethyl)ether	93		8.704	8.704	(0.949)	18062	0.48518	0.4852
6 2-Chlorophenol	128		8.828	8.835	(0.963)	22183	0.50569	0.5057
7 1,3-Dichlorobenzene	146		9.106	9.106	(0.993)	23016	0.49479	0.4948
* 8 1,4-Dichlorobenzene-d4	152		9.168	9.168	(1.000)	120125	4.00000	
9 1,4-Dichlorobenzene	146		9.199	9.199	(1.003)	21701	0.49244	0.4924
\$ 10 1,2-Dichlorobenzene-d4	152		9.533	9.533	(1.040)	12849	0.47066	0.4707
12 1,2-Dichlorobenzene	146		9.556	9.564	(1.042)	20928	0.48424	0.4842
11 Benzyl alcohol	108		9.440	9.440	(1.030)	9113	0.37879	0.3788
14 2,2'-oxybis(1-Chloropropane)	121		9.742	9.743	(1.063)	5781	0.46137	0.4614 (M)
13 2-Methylphenol	108		9.665	9.665	(1.054)	18978	0.48328	0.4833
17 Hexachloroethane	117		10.162	10.162	(1.108)	6042	0.37278	0.3728
16 N-Nitroso-di-n-propylamine	70		9.999	9.999	(1.091)	11134	0.46544	0.4654
15 4-Methylphenol	108		9.936	9.937	(1.084)	19666	0.47473	0.4747
\$ 18 Nitrobenzene-d5	82		10.262	10.270	(0.879)	16741	0.45978	0.4598
19 Nitrobenzene	77		10.301	10.301	(0.882)	16782	0.46409	0.4641
20 Isophorone	82		10.751	10.759	(0.921)	19898	0.43175	0.4317
21 2-Nitrophenol	139		10.938	10.938	(0.937)	10095	0.45609	0.4561
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	37295	0.98819	0.9882
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	17353	0.48401	0.4840
24 Benzoic acid	105		11.093	11.201	(0.950)	7598	0.33063	0.3306
25 2,4-Dichlorophenol	162		11.403	11.403	(0.977)	31564	0.99218	0.9922
26 1,2,4-Trichlorobenzene	180		11.588	11.589	(0.993)	16567	0.48162	0.4816
* 27 Naphthalene-d8	136		11.673	11.681	(1.000)	431181	4.00000	
28 Naphthalene	128		11.712	11.720	(1.003)	51400	0.48439	0.4844
29 4-Chloroaniline	127		11.843	11.843	(1.015)	38062	0.86979	0.8698
30 Hexachlorobutadiene	225		12.083	12.083	(1.035)	8038	0.47097	0.4710
31 4-Chloro-3-methylphenol	107		12.810	12.810	(1.097)	28593	0.95242	0.9524
32 2-Methylnaphthalene	142		13.120	13.128	(1.124)	36399	0.46764	0.4676
33 Hexachlorocyclopentadiene	237		13.592	13.592	(0.888)	1798	0.10740	0.1074

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.747	13.747	(0.898)	16457	0.89033	0.8903	
35 2,4,5-Trichlorophenol	196		13.824	13.824	(0.903)	19186	0.89935	0.8994	
§ 36 2-Fluorobiphenyl	172		13.909	13.909	(0.909)	35317	0.47432	0.4743	
37 2-Chloronaphthalene	162		14.118	14.126	(0.922)	30923	0.48818	0.4882	
38 2-Nitroaniline	65		14.373	14.373	(0.939)	15325	0.92024	0.9202	
39 Dimethylphthalate	163		14.807	14.807	(0.967)	29080	0.46562	0.4656	
40 Acenaphthylene	152		14.993	15.000	(0.979)	51393	0.53211	0.5321	
41 2,6-Dinitrotoluene	165		14.938	14.946	(0.976)	12001	0.85147	0.8515	
* 42 Acenaphthene-d10	164		15.310	15.318	(1.000)	221457	4.00000		
43 3-Nitroaniline	138		15.232	15.233	(0.995)	13712	0.80043	0.8004	
44 Acenaphthene	153		15.379	15.379	(1.005)	29746	0.49655	0.4966	
45 2,4-Dinitrophenol	184		15.449	15.441	(1.009)	1736	0.14499	0.1450 (M)	
46 Dibenzofuran	168		15.704	15.712	(1.026)	44263	0.49272	0.4927	
47 4-Nitrophenol	109		15.596	15.549	(1.019)	5313	0.64751	0.6475 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.758	(1.029)	15060	0.77878	0.7788	
50 Diethylphthalate	149		16.268	16.268	(1.063)	45617	0.53738	0.5374	
49 Fluorene	166		16.423	16.423	(1.073)	46218	0.48362	0.4836	
51 4-Chlorophenyl-phenylether	204		16.407	16.415	(1.072)	21450	0.45846	0.4585	
52 4-Nitroaniline	138		16.508	16.508	(1.078)	16356	0.79260	0.7926	
53 4,6-Dinitro-2-methylphenol	198		16.600	16.608	(0.904)	11325	0.75665	0.7566	
54 N-Nitrosodiphenylamine	169		16.654	16.662	(0.907)	31251	0.51126	0.5113	
§ 55 2,4,6-Tribromophenol	330		16.963	16.963	(1.108)	5569	0.53587	0.5359	
56 4-Bromophenyl-phenylether	248		17.418	17.418	(0.949)	11348	0.49028	0.4903	
57 Hexachlorobenzene	284		17.742	17.742	(0.966)	12447	0.49003	0.4900	
58 Pentachlorophenol	266		18.098	18.098	(0.986)	2476	0.22496	0.2250 (M)	
* 59 Phenanthrene-d10	188		18.361	18.369	(1.000)	356219	4.00000		
60 Phenanthrene	178		18.408	18.415	(1.003)	45378	0.48858	0.4886	
61 Anthracene	178		18.500	18.508	(1.008)	41525	0.46834	0.4683	
62 Carbazole	167		18.833	18.833	(1.026)	39496	0.46078	0.4608	
63 Di-n-butylphthalate	149		19.622	19.622	(1.069)	41551	0.42863	0.4286	
64 Fluoranthene	202		20.791	20.798	(0.888)	44087	0.46433	0.4643	
65 Pyrene	202		21.216	21.224	(0.906)	46707	0.46787	0.4679	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.918)	32135	0.45398	0.4540	
67 Butylbenzylphthalate	149		22.416	22.416	(0.958)	16717	0.44361	0.4436	
68 Benzo(a)anthracene	228		23.376	23.376	(0.999)	43313	0.48487	0.4849	
* 69 Chrysene-d12	240		23.407	23.407	(1.000)	294883	4.00000		
70 3,3'-Dichlorobenzidine	252		23.322	23.330	(0.996)	40436	1.47869	1.479	
71 Chrysene	228		23.446	23.454	(1.002)	41334	0.48986	0.4899	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.438	(0.959)	22969	0.47045	0.4704	
* 134 Di-n-octylphthalate-d4	153		24.429	24.429	(1.000)	439623	4.00000		
73 Di-n-octylphthalate	149		24.437	24.437	(1.000)	51489	0.48792	0.4879	
74 Benzo(b)fluoranthene	252		25.296	25.304	(0.969)	40786	0.50793	0.5079	
75 Benzo(k)fluoranthene	252		25.343	25.343	(0.971)	42127	0.51546	0.5155	
76 Benzo(a)pyrene	252		25.970	25.978	(0.995)	33479	0.50154	0.5015	
* 77 Perylene-d12	264		26.094	26.094	(1.000)	255506	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.853	28.854	(1.106)	24548	0.32350	0.3235	
79 Dibenzo(a,h)anthracene	278		28.869	28.861	(1.106)	21258	0.32967	0.3297	
80 Benzo(g,h,i)perylene	276		29.669	29.669	(1.137)	17003	0.26748	0.2675	
90 N-Nitrosodimethylamine	74		4.726	4.726	(0.516)	26563	1.00220	1.002	
91 Aniline	93		8.611	8.619	(0.939)	51051	0.97019	0.9702	
93 Benzidine	184		21.023	21.015	(0.898)	29087	0.80389	0.8039	
103 Pyridine	79		4.772	4.757	(0.521)	42950	0.50997	0.5100	
105 1-methylnaphthalene	142		13.344	13.352	(1.143)	35633	0.47646	0.4765	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.731	16.739	(1.093)	42141	0.51242	0.5124	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123052.D Calibration Time: 13:17
 Lab Smp Id: SKL0356-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m, 31-DEC-2022 15:05

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

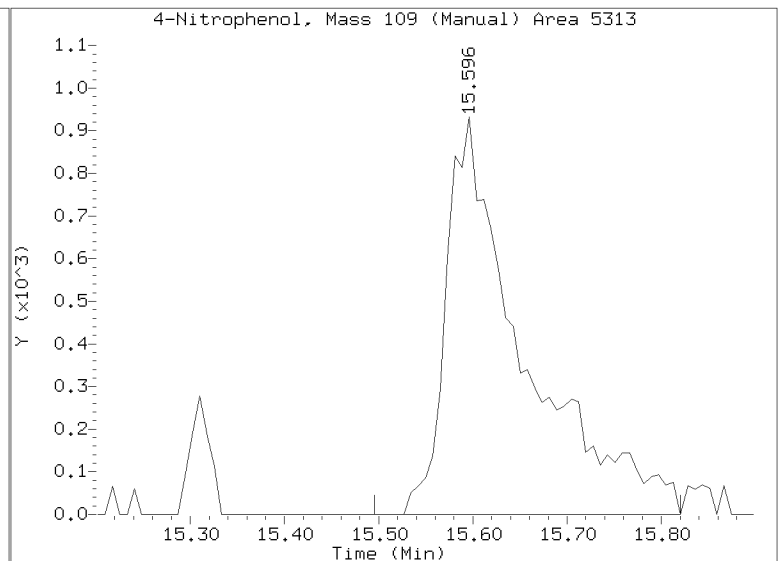
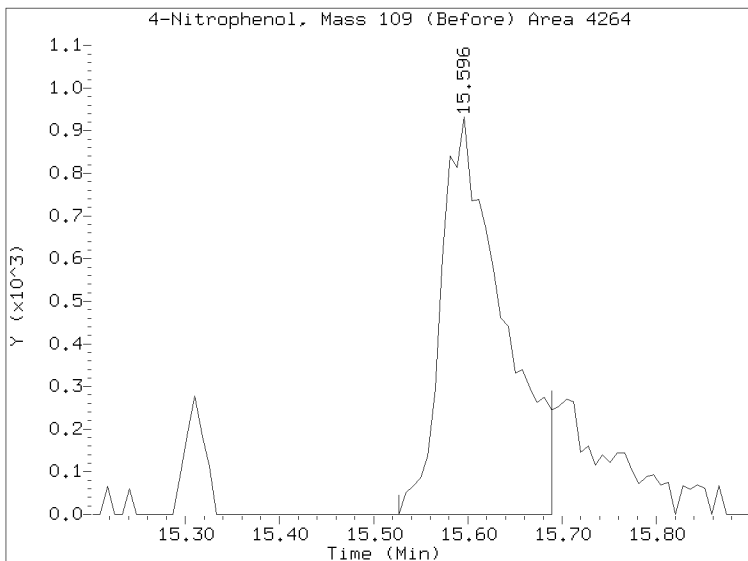
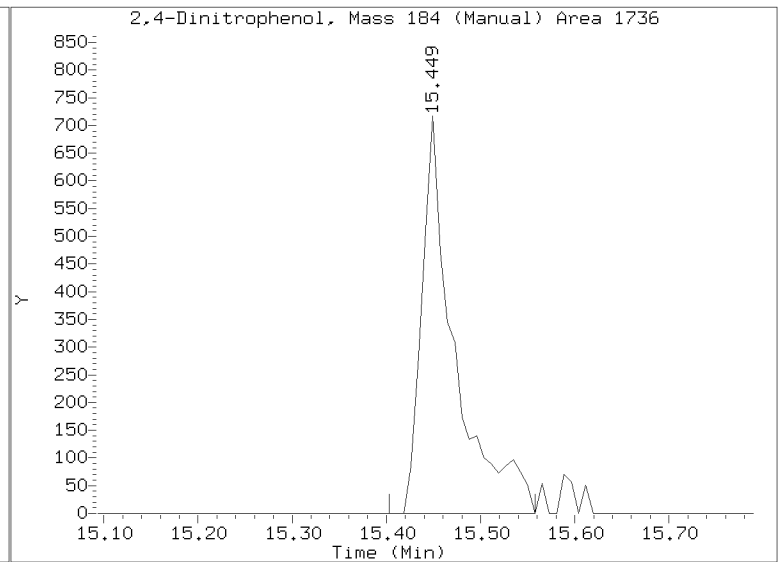
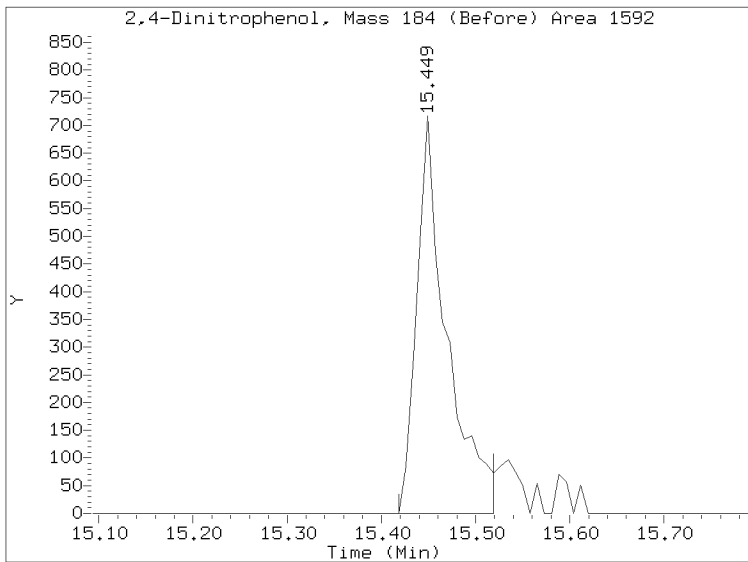
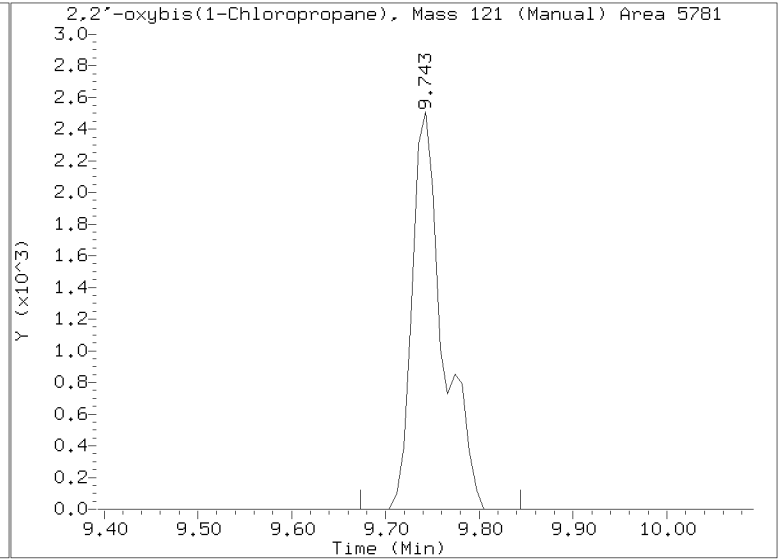
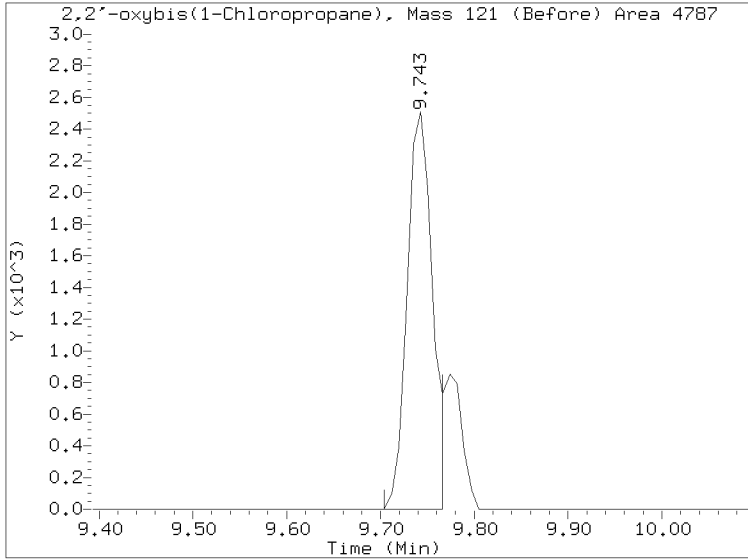
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* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

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Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

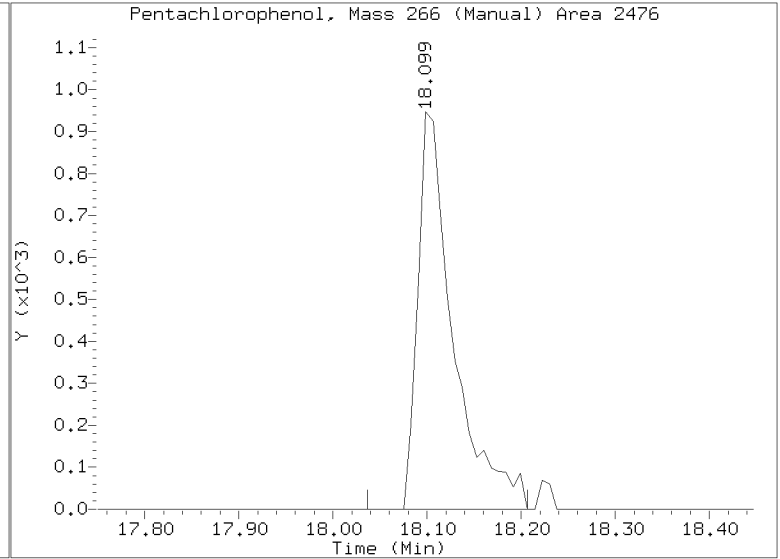
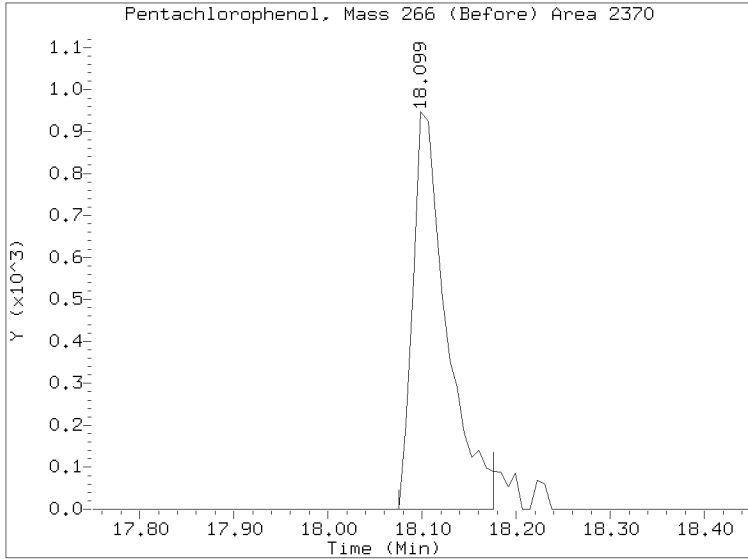
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

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Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV3

Sequence: SKL0355

Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	13.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.6	50.00
2-Chlorophenol	0.20000	0.2	23.1	50.00
1,3-Dichlorobenzene	0.20000	0.2	23.5	50.00
1,4-Dichlorobenzene	0.20000	0.3	25.1	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.0	50.00
Benzyl Alcohol	0.20000	0.2	-17.4	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	21.5	50.00
2-Methylphenol	0.20000	0.2	10.4	50.00
Hexachloroethane	0.20000	0.2	-1.0	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	17.6	50.00
4-Methylphenol	0.20000	0.2	4.0	50.00
Nitrobenzene	0.20000	0.2	11.5	50.00
Isophorone	0.20000	0.2	-1.4	50.00
2-Nitrophenol	0.20000	0.2	5.8	50.00
2,4-Dimethylphenol	0.40000	0.5	14.7	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	18.0	50.00
2,4-Dichlorophenol	0.40000	0.4	2.5	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	20.1	50.00
Naphthalene	0.20000	0.2	17.7	50.00
Benzoic acid	0.80000	0.2	-73.8	50.00
4-Chloroaniline	0.40000	0.4	1.3	50.00
Hexachlorobutadiene	0.20000	0.2	19.0	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	8.2	50.00
2-Methylnaphthalene	0.20000	0.2	13.5	50.00
Hexachlorocyclopentadiene	0.40000	0.04	-89.9	50.00
2,4,6-Trichlorophenol	0.40000	0.3	-13.9	50.00
2,4,5-Trichlorophenol	0.40000	0.4	-9.9	50.00
2-Chloronaphthalene	0.20000	0.2	17.3	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV3

Sequence: SKL0355

Standard ID: K011105

2-Nitroaniline	0.40000	0.4	7.4	50.00
Acenaphthylene	0.20000	0.2	14.6	50.00
Dimethylphthalate	0.20000	0.2	6.9	50.00
2,6-Dinitrotoluene	0.40000	0.4	-4.5	50.00
Acenaphthene	0.20000	0.2	17.9	50.00
3-Nitroaniline	0.40000	0.4	-10.9	50.00
2,4-Dinitrophenol	0.80000	0.0		50.00
Dibenzofuran	0.20000	0.2	20.3	50.00
4-Nitrophenol	0.40000	0.3	-33.0	50.00
2,4-Dinitrotoluene	0.40000	0.3	-15.3	50.00
Fluorene	0.20000	0.2	16.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	5.7	50.00
Diethyl phthalate	0.20000	0.3	29.8	50.00
4-Nitroaniline	0.40000	0.4	-6.5	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.09	-88.4	50.00
N-Nitrosodiphenylamine	0.20000	0.3	25.4	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	11.6	50.00
Hexachlorobenzene	0.20000	0.2	18.4	50.00
Pentachlorophenol	0.40000	0.02	-94.9	50.00
Phenanthrene	0.20000	0.2	19.8	50.00
Anthracene	0.20000	0.2	16.1	50.00
Carbazole	0.20000	0.2	15.4	50.00
Di-n-Butylphthalate	0.20000	0.2	13.6	50.00
Fluoranthene	0.20000	0.2	19.0	50.00
Pyrene	0.20000	0.2	16.7	50.00
Butylbenzylphthalate	0.20000	0.3	34.9	50.00
Benzo(a)anthracene	0.20000	0.3	32.0	50.00
3,3'-Dichlorobenzidine	0.60000	0.8	36.5	50.00
Chrysene	0.20000	0.2	21.4	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.3	30.5	50.00
Di-n-Octylphthalate	0.20000	0.2	23.0	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV3

Sequence: SKL0355

Standard ID: K011105

Benzofluoranthenes, Total	0.40000	0.5	31.6	50.00
Benzo(a)pyrene	0.20000	0.3	26.2	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-25.3	50.00
Dibenzo(a,h)anthracene	0.20000	0.2	-24.6	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-47.1	50.00
1-Methylnaphthalene	0.20000	0.2	13.7	50.00
2-Fluorophenol	0.30000	0.357	18.9	50.00
Phenol-d5	0.30000	0.312	4.0	50.00
2-Chlorophenol-d4	0.30000	0.337	12.3	50.00
1,2-Dichlorobenzene-d4	0.20000	0.240	20.2	50.00
Nitrobenzene-d5	0.20000	0.227	13.3	50.00
2-Fluorobiphenyl	0.20000	0.223	11.4	50.00
2,4,6-Tribromophenol	0.30000	0.225	-25.1	50.00
p-Terphenyl-d14	0.20000	0.222	11.1	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123067.D

Date: 01-JAN-2023 00:06

Client ID:

Sample Info: SKL0365-LCW3

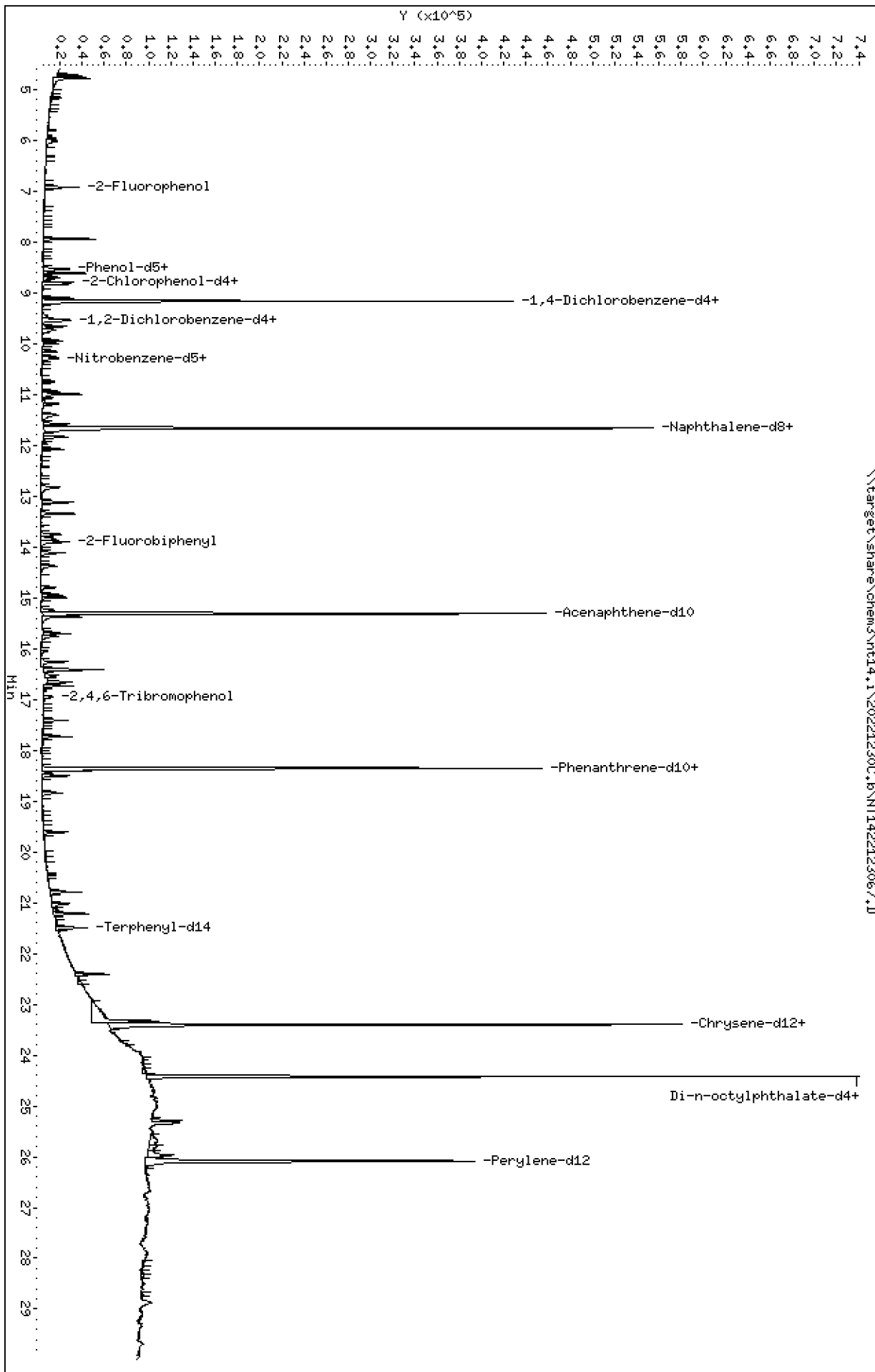
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

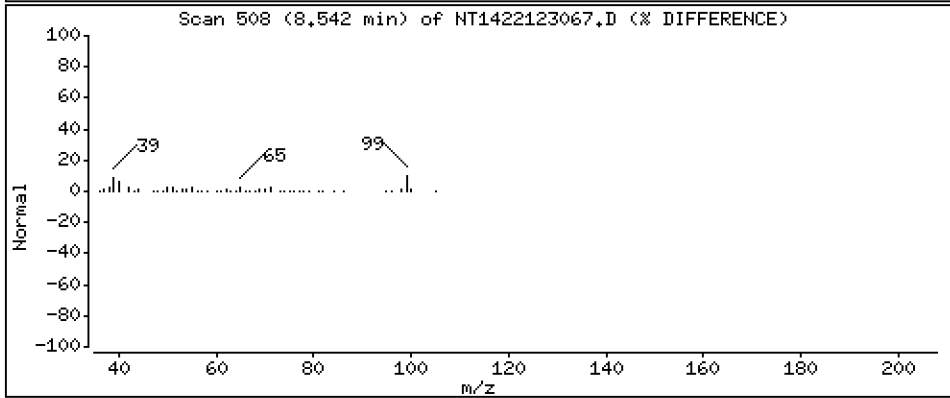
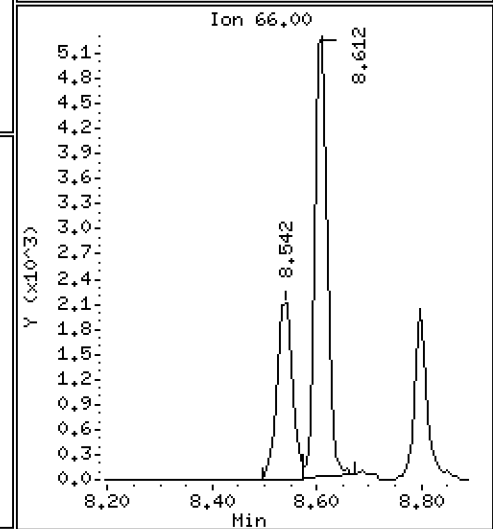
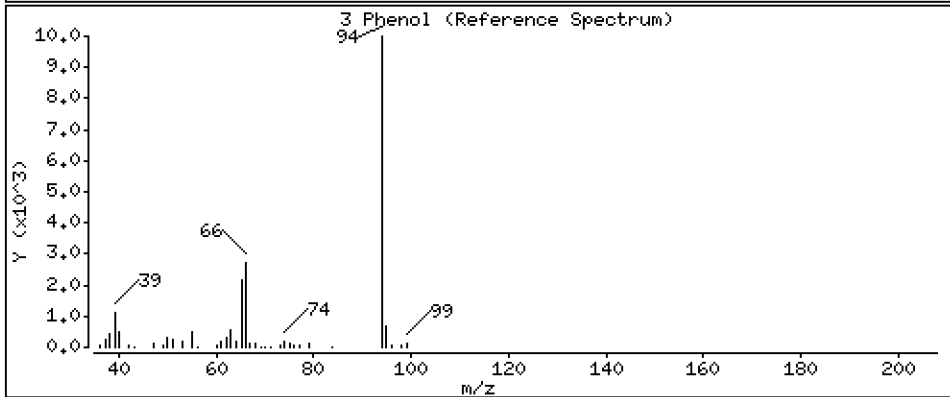
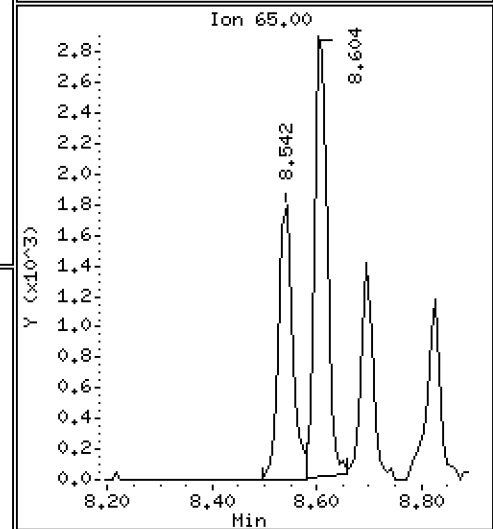
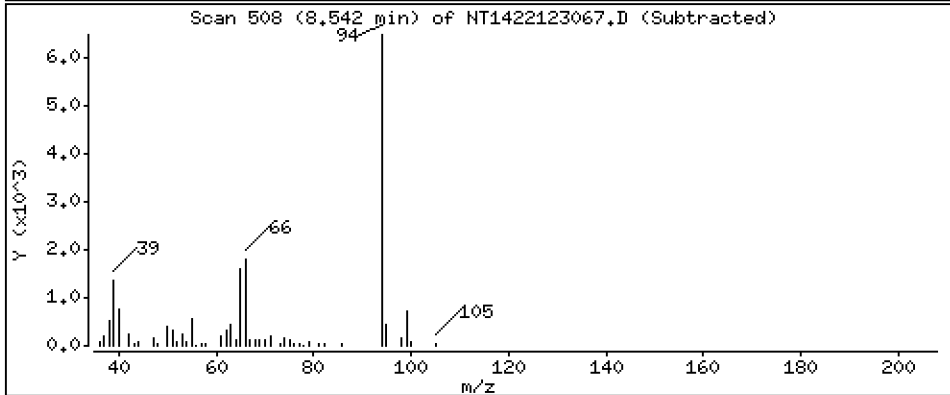
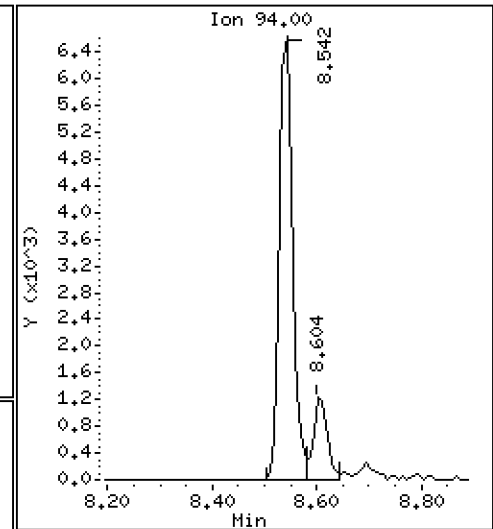
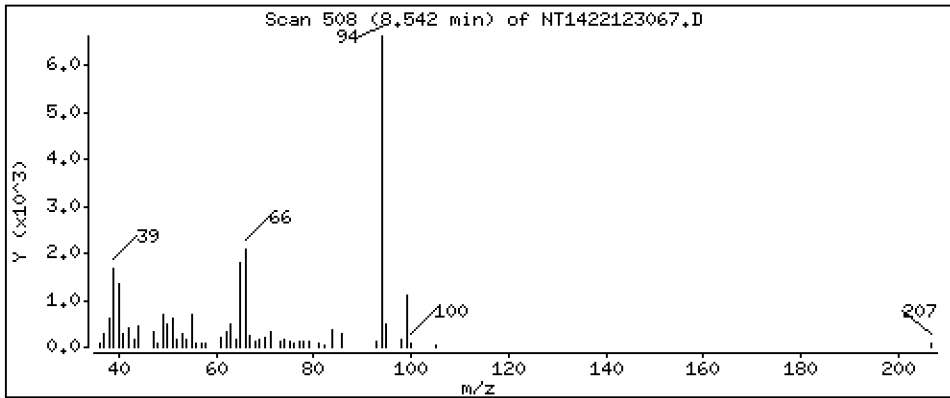
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

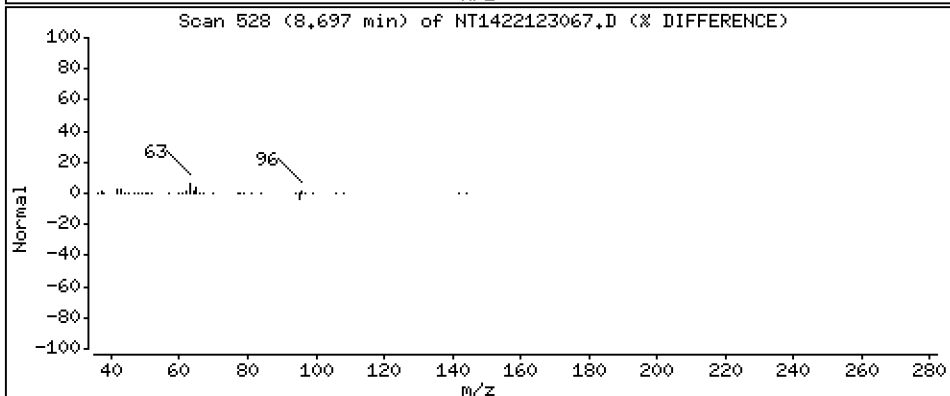
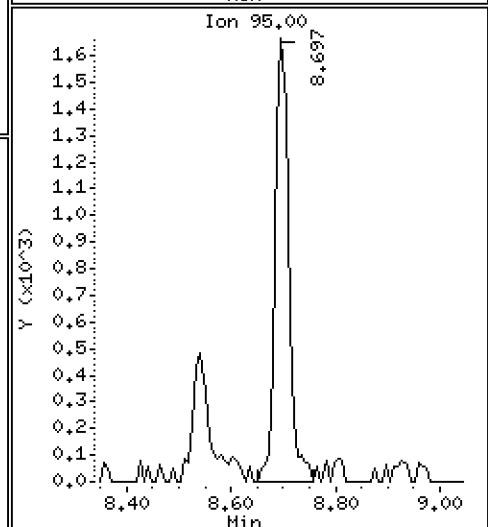
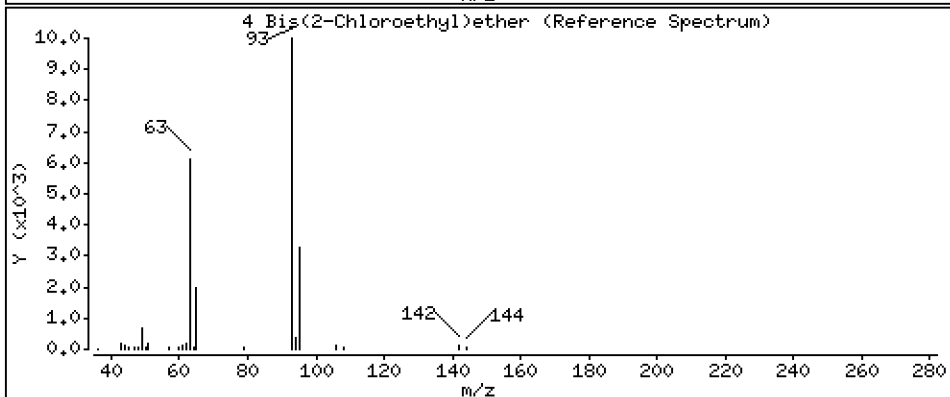
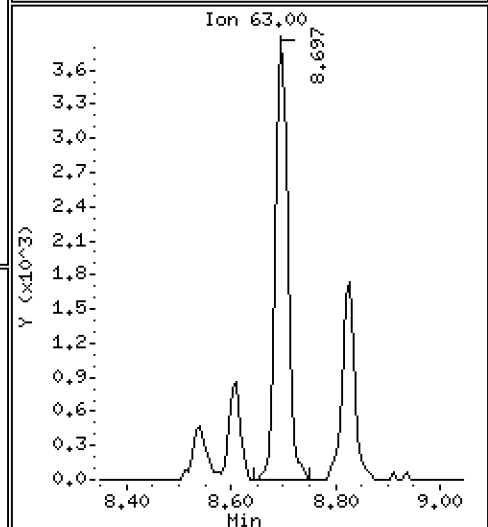
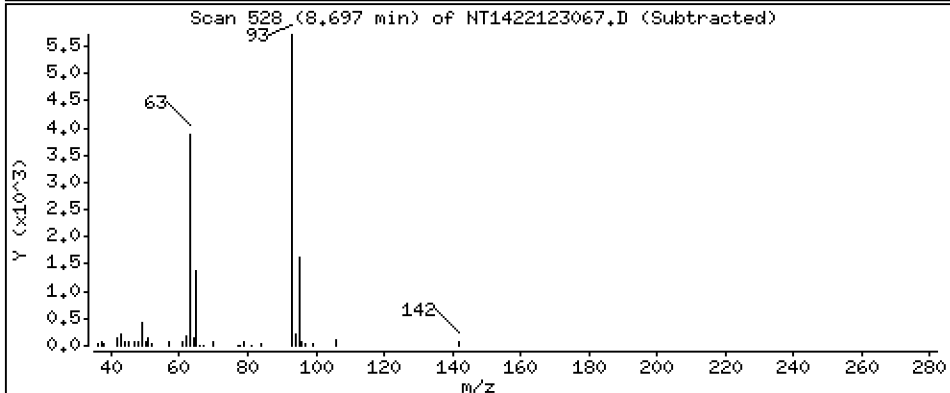
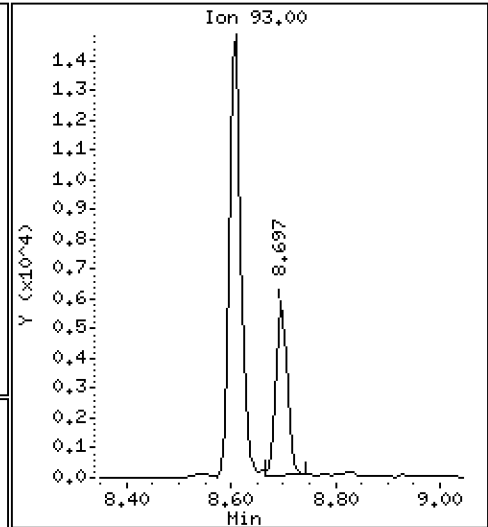
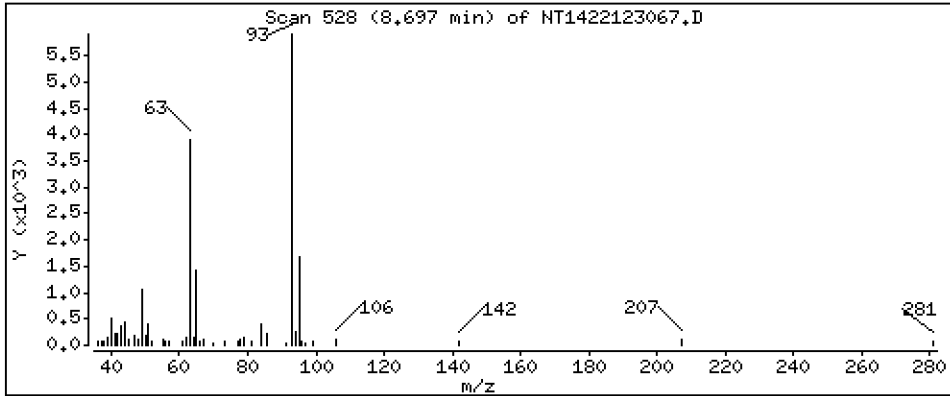
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2393 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

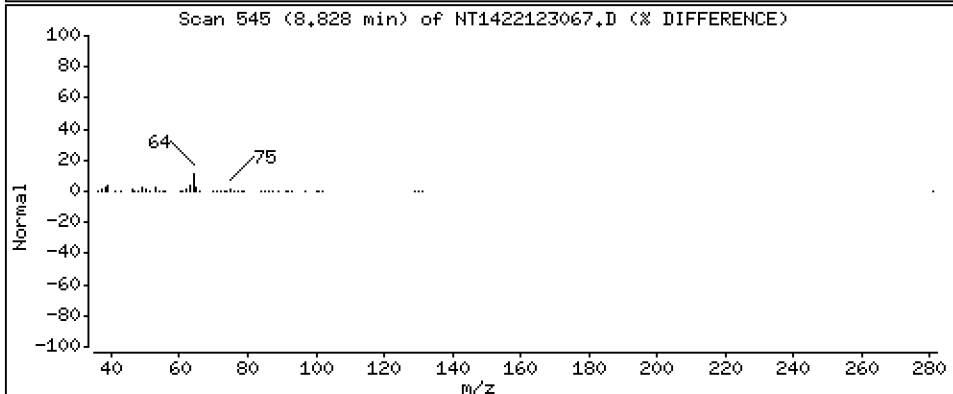
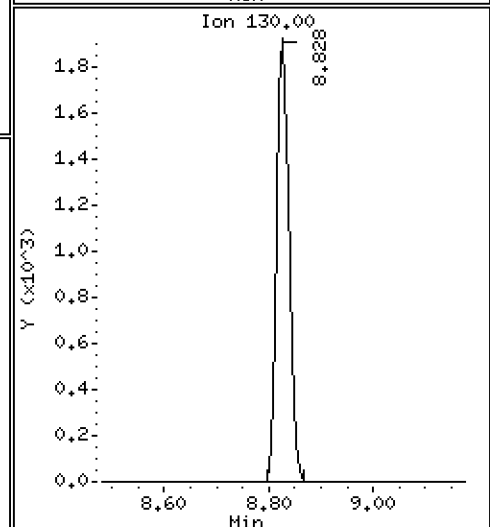
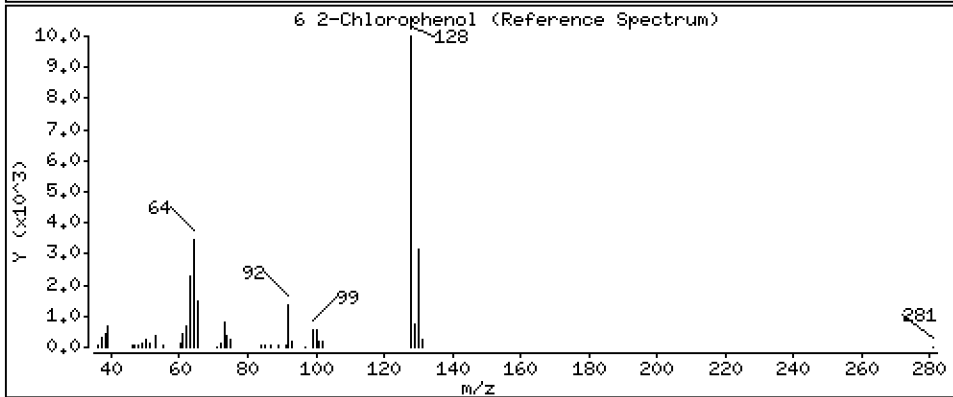
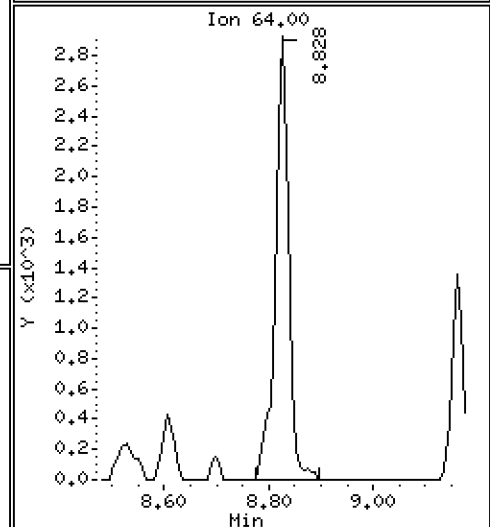
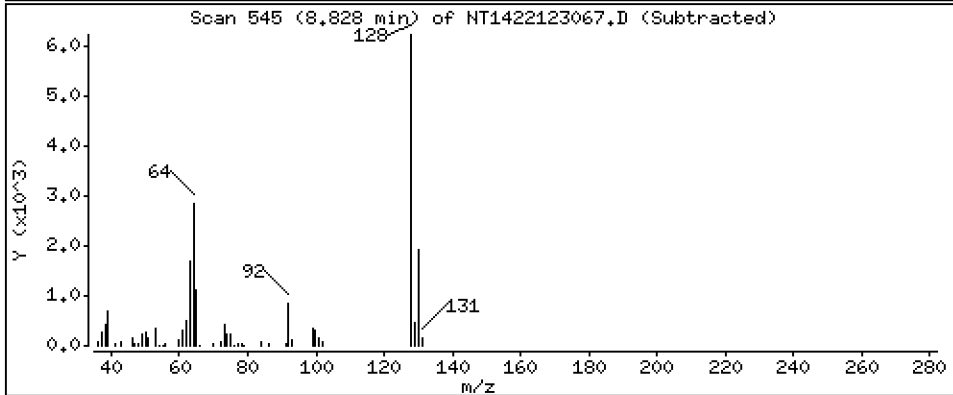
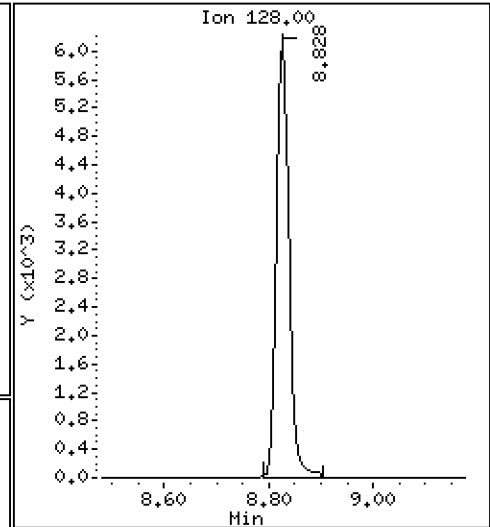
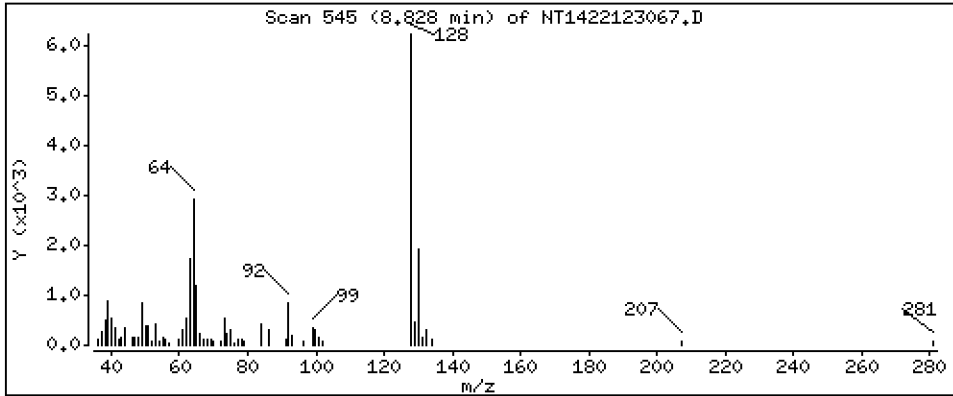
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2462 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

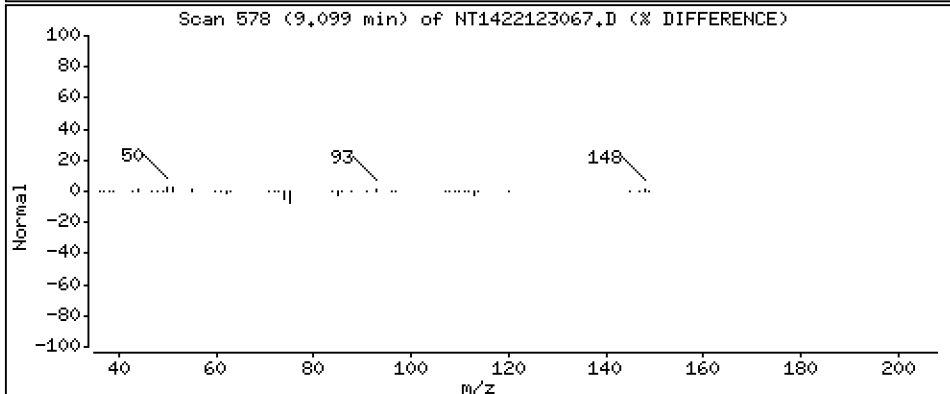
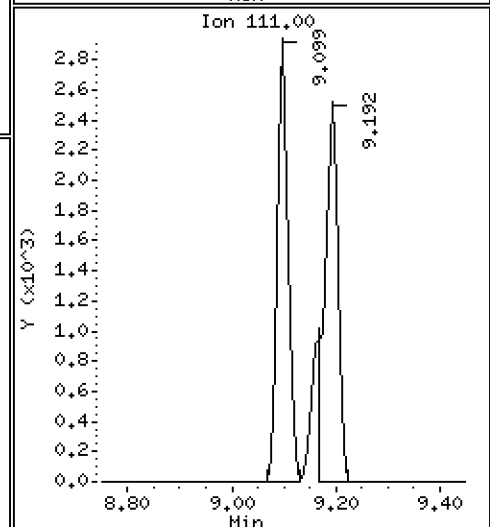
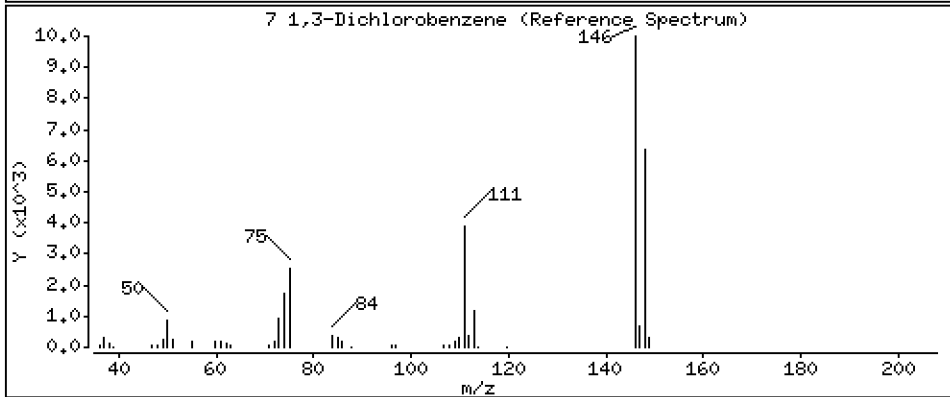
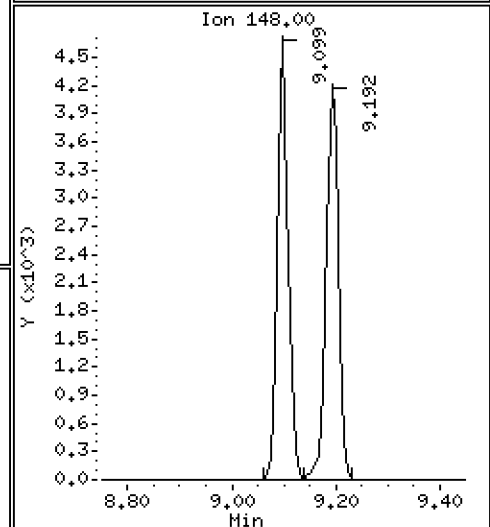
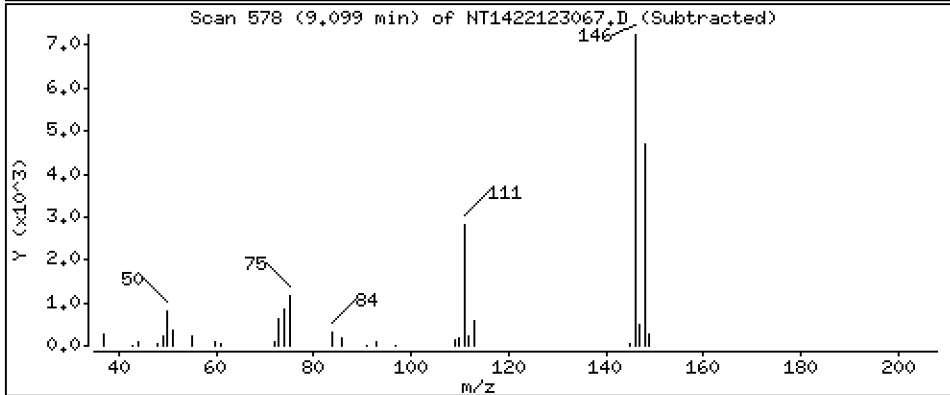
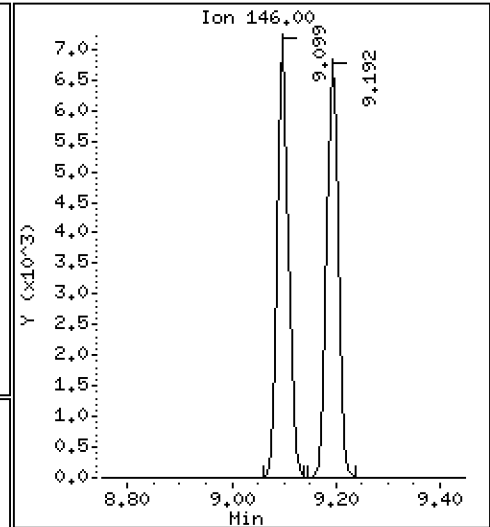
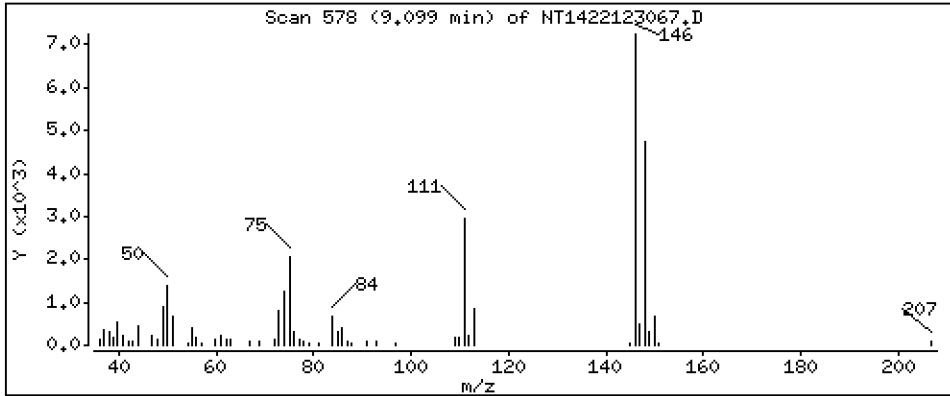
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2470 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

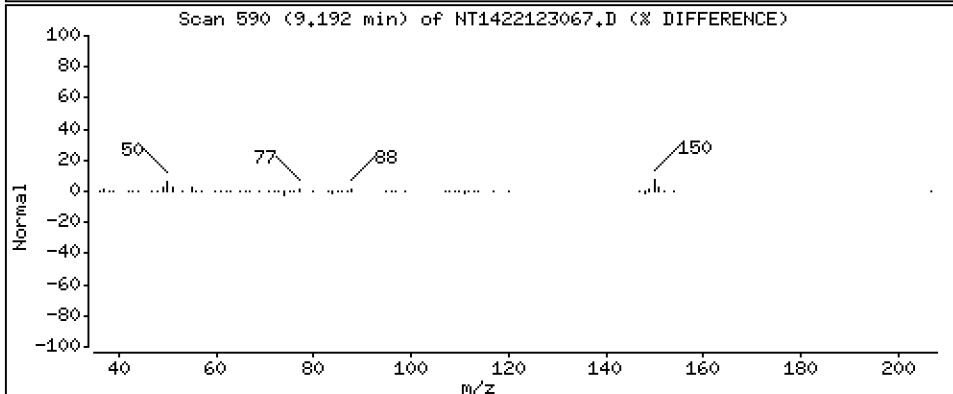
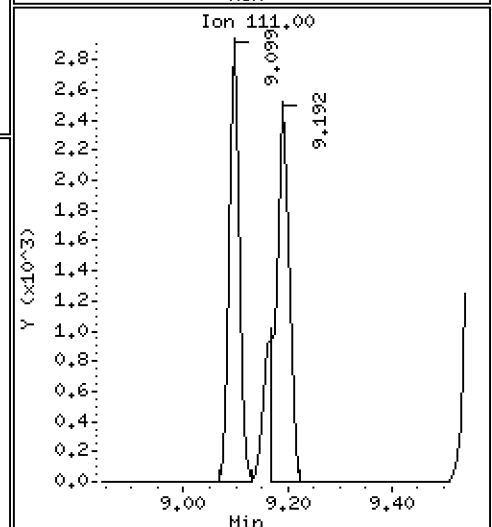
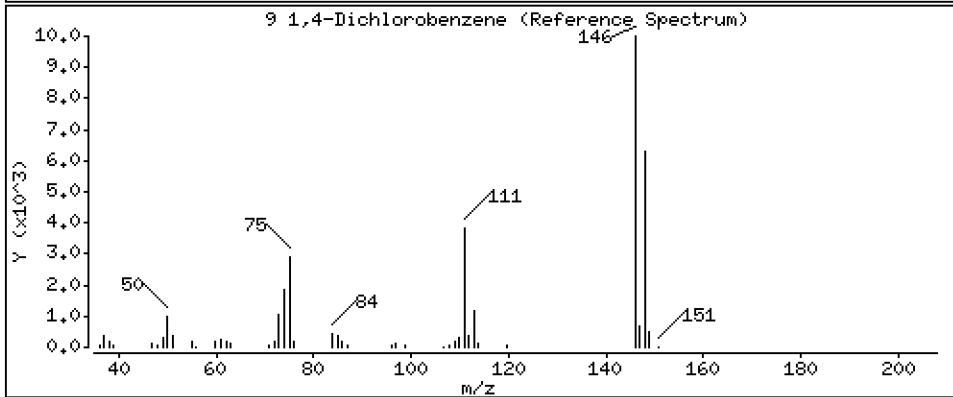
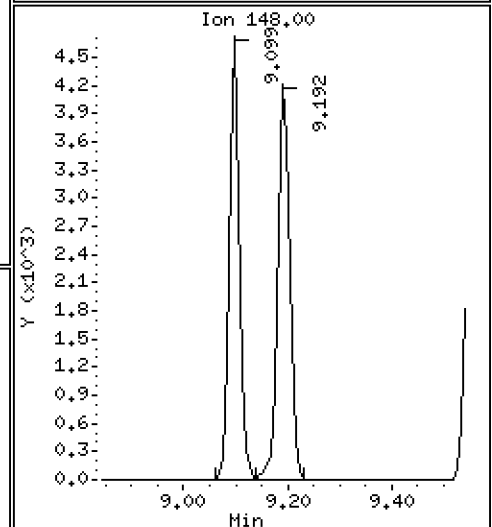
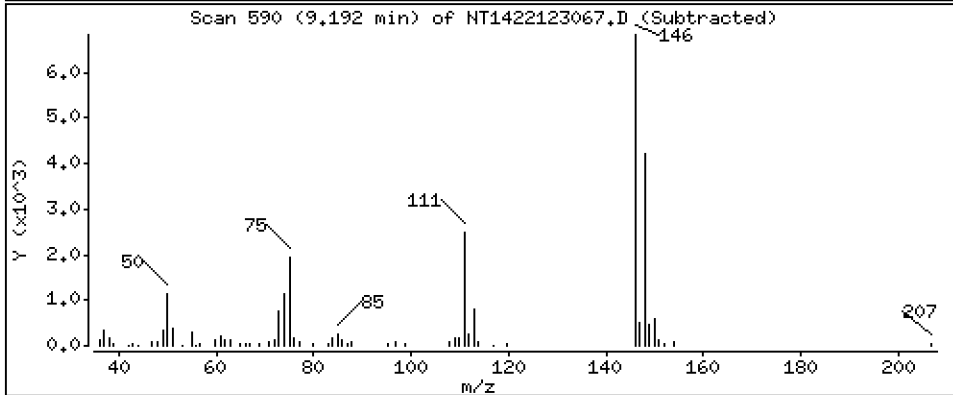
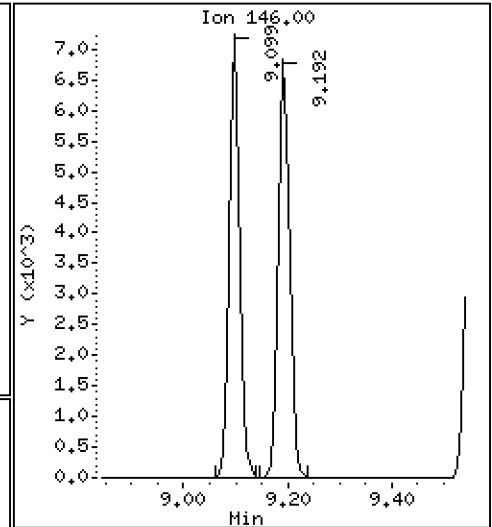
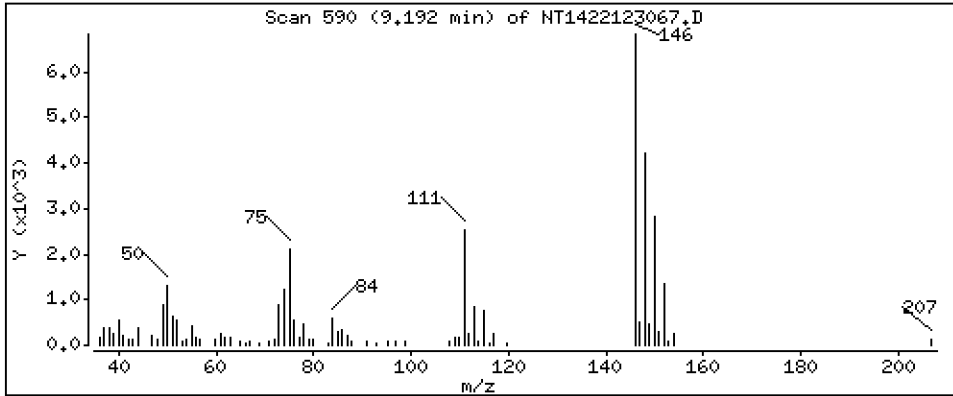
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2502 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

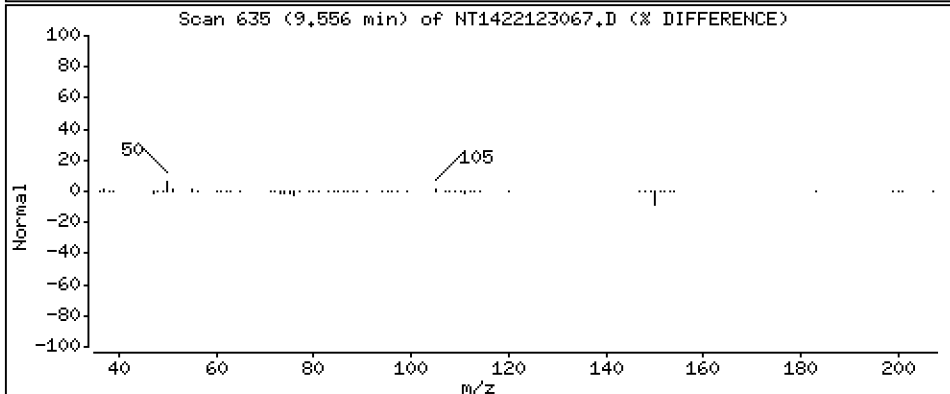
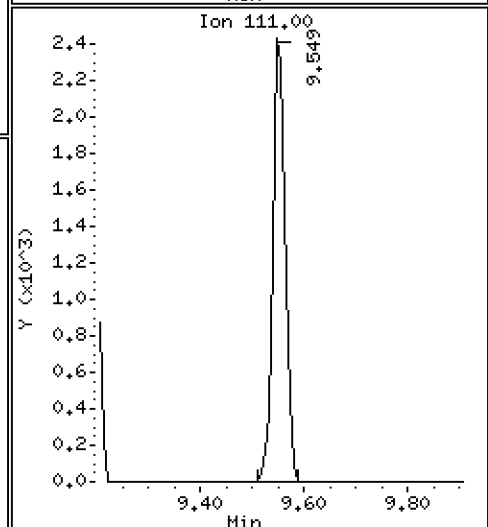
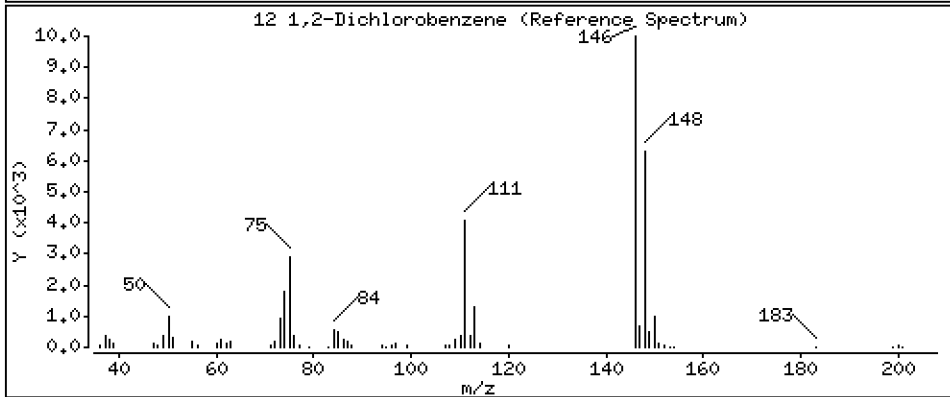
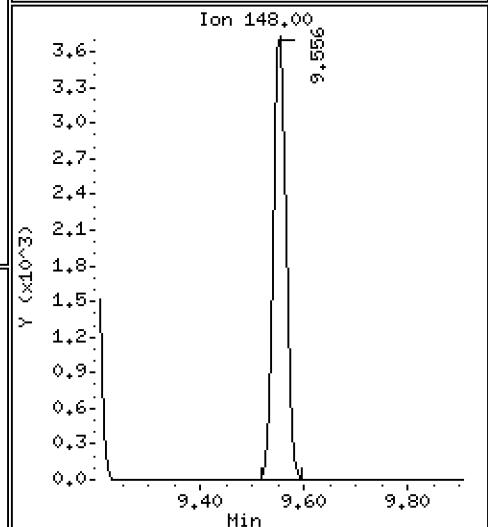
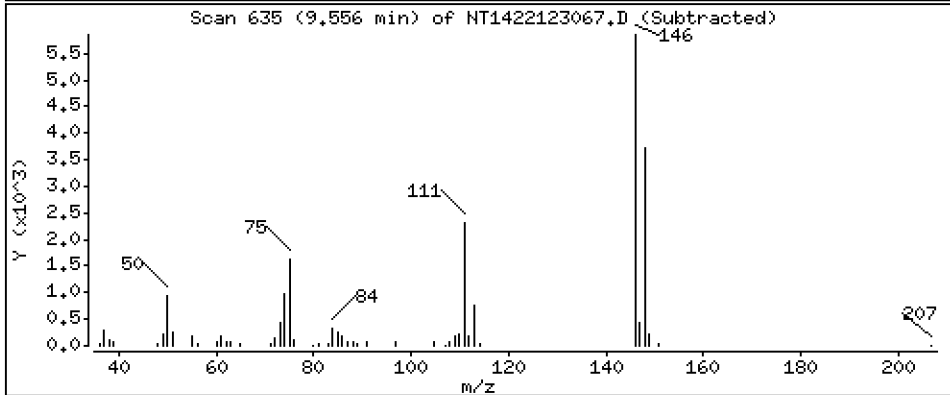
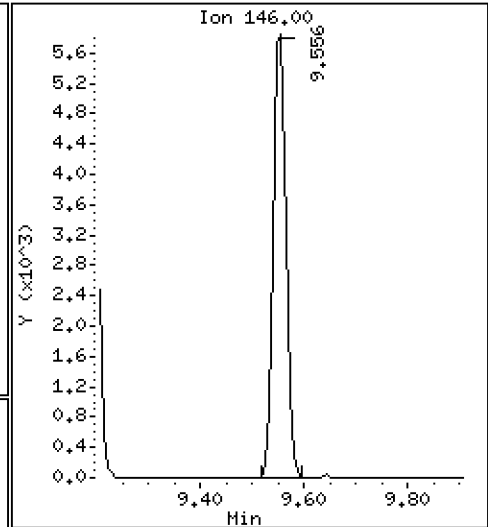
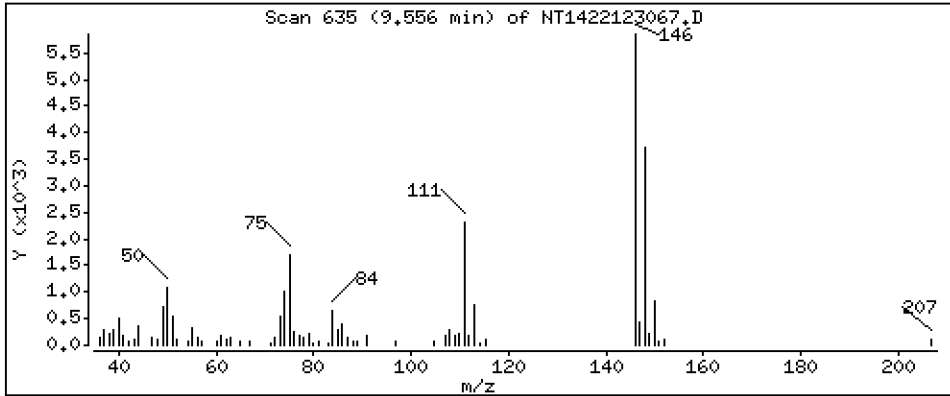
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2420 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

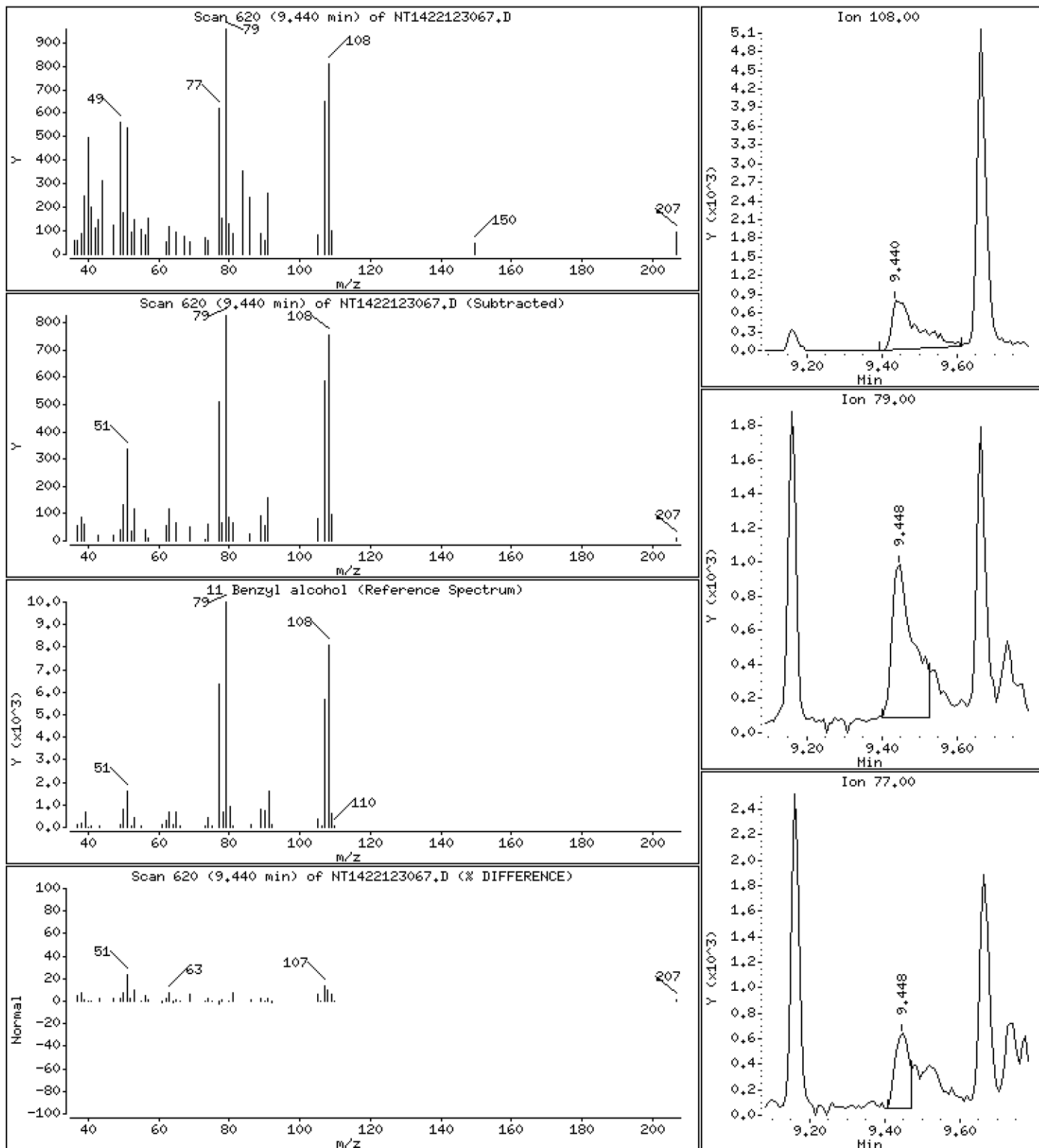
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1653 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

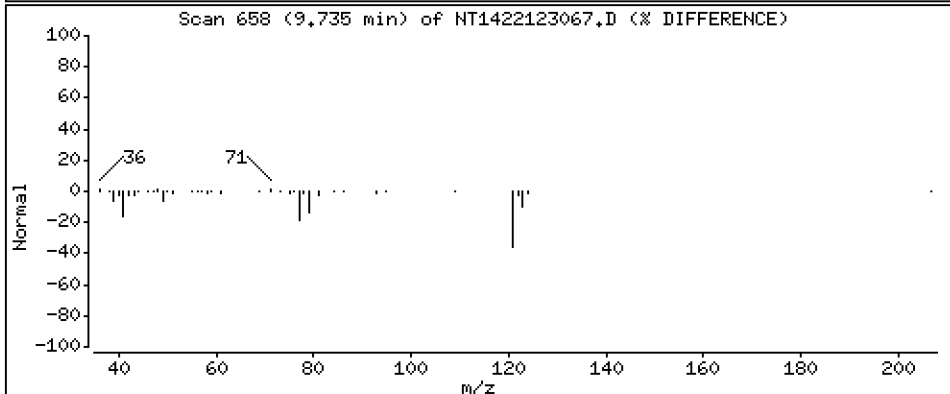
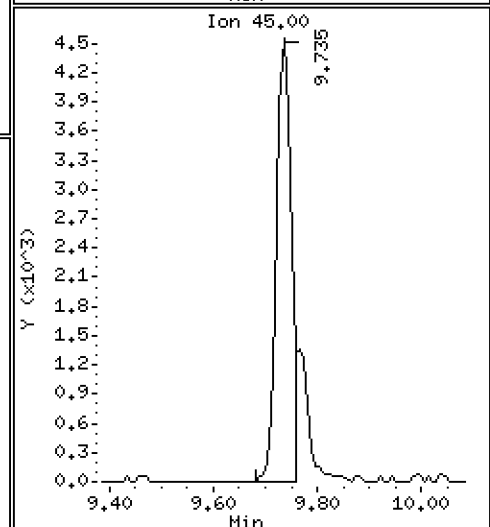
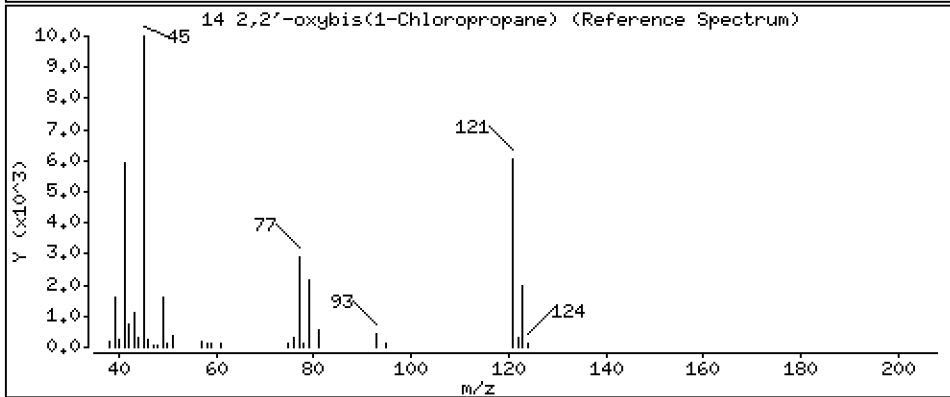
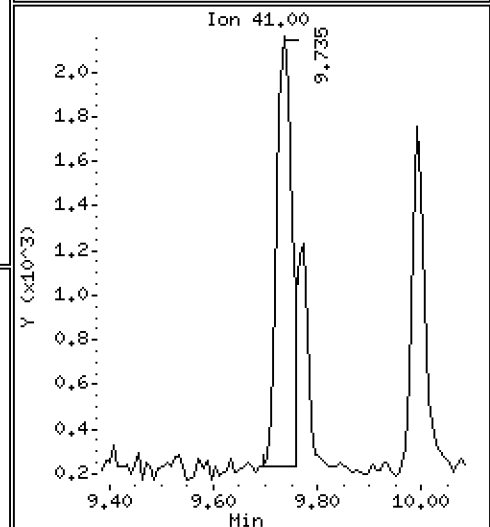
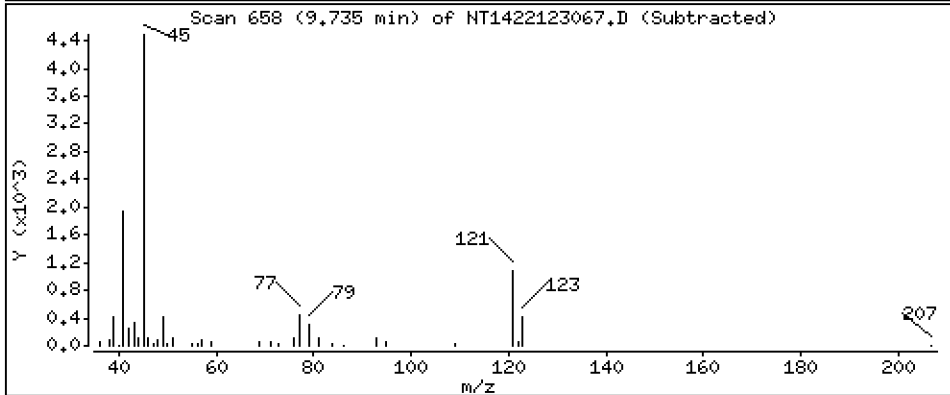
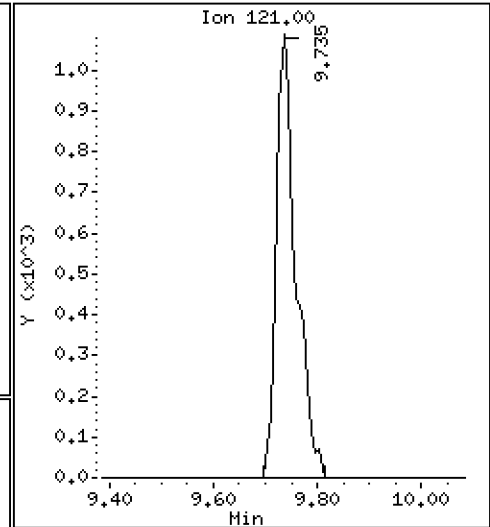
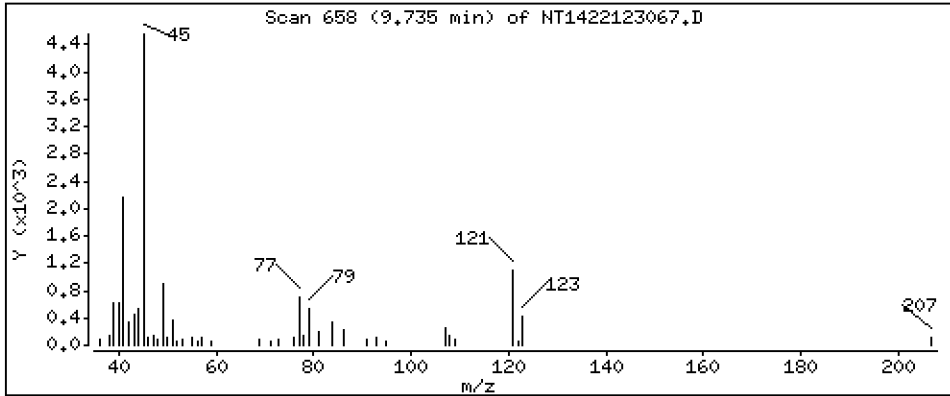
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.2430 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

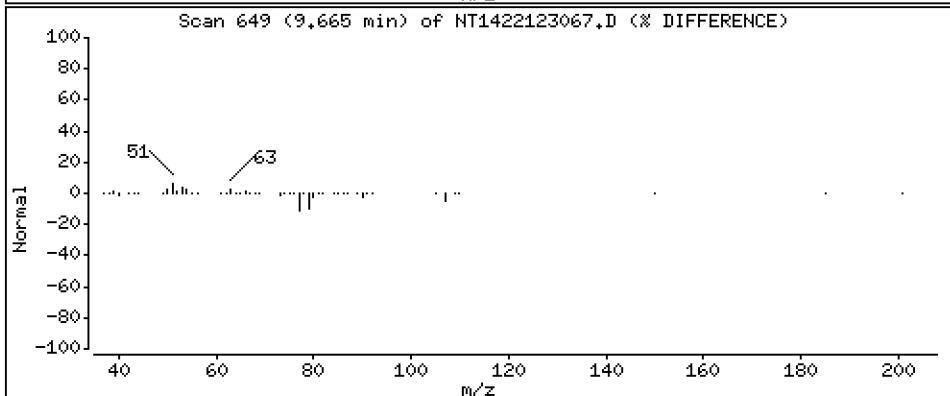
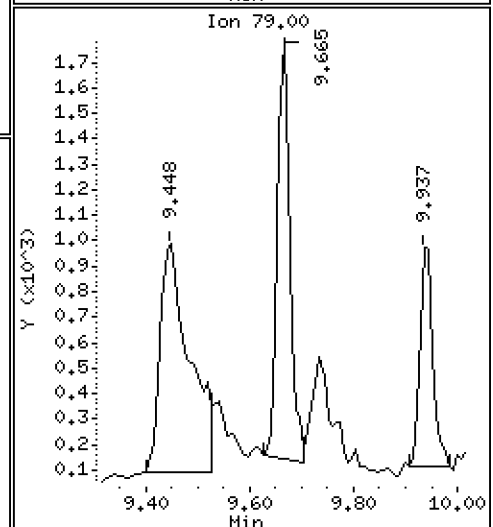
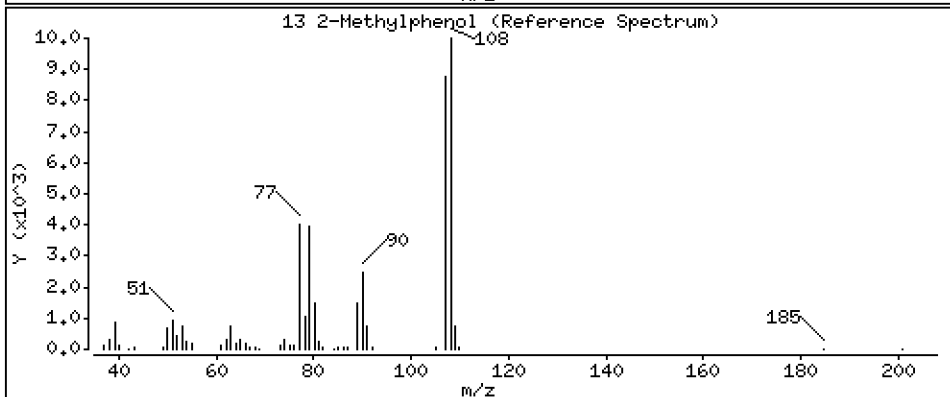
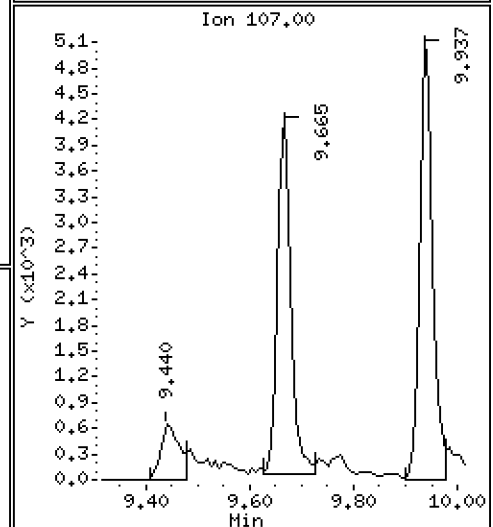
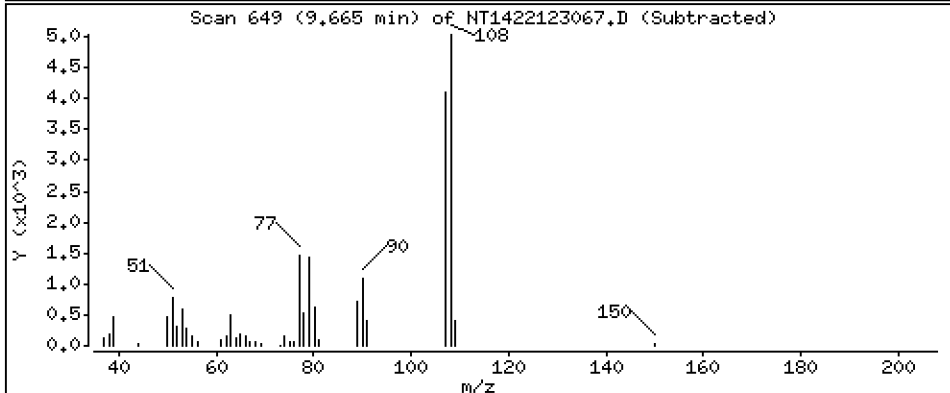
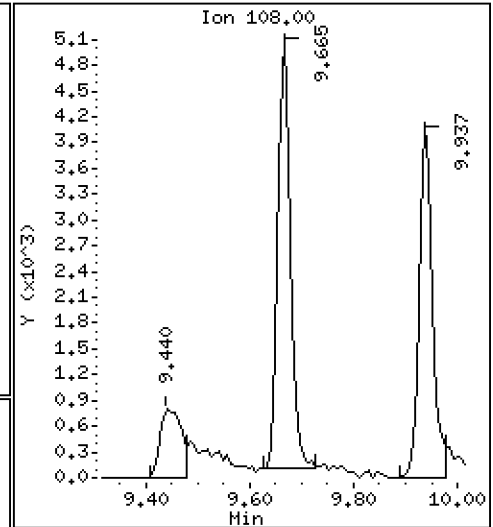
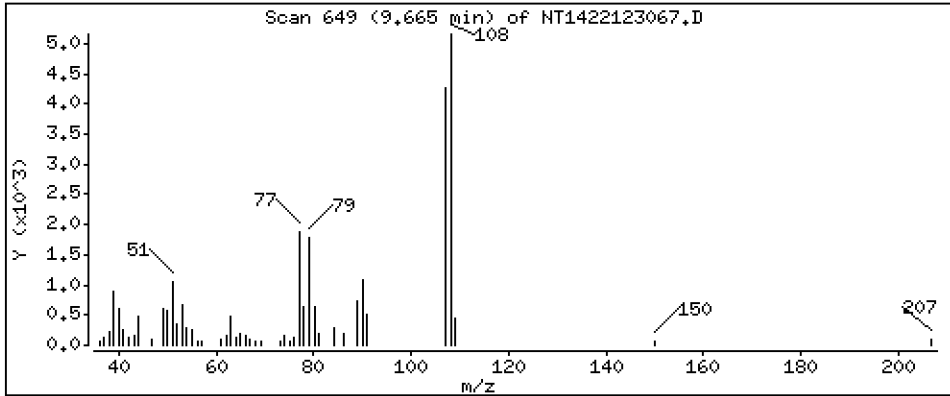
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.2207 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

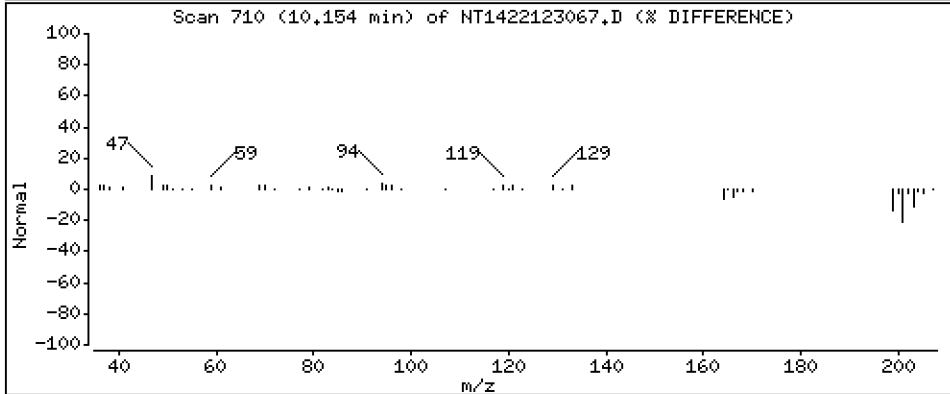
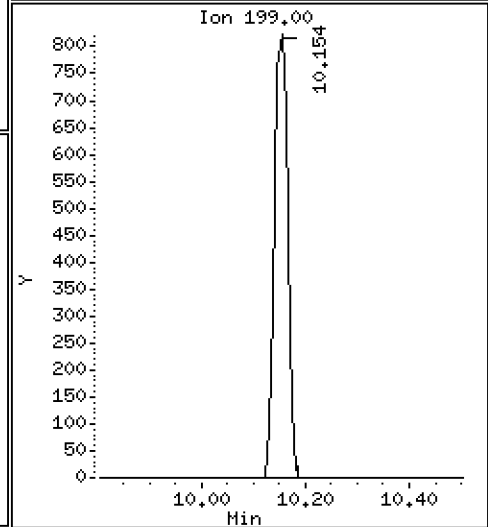
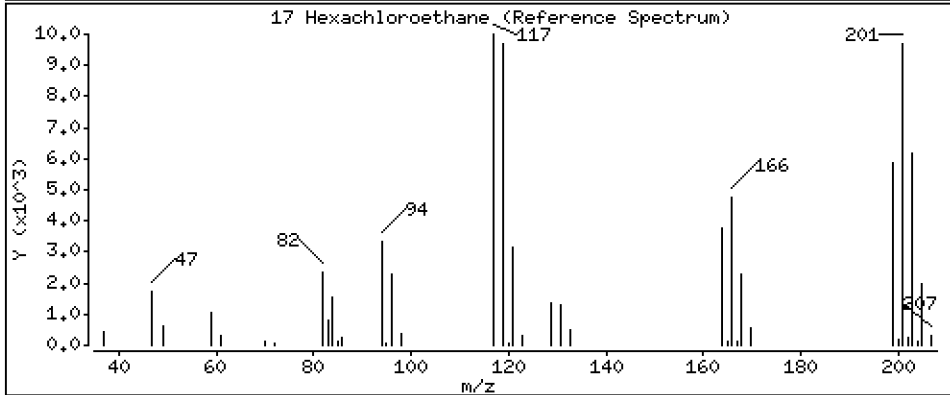
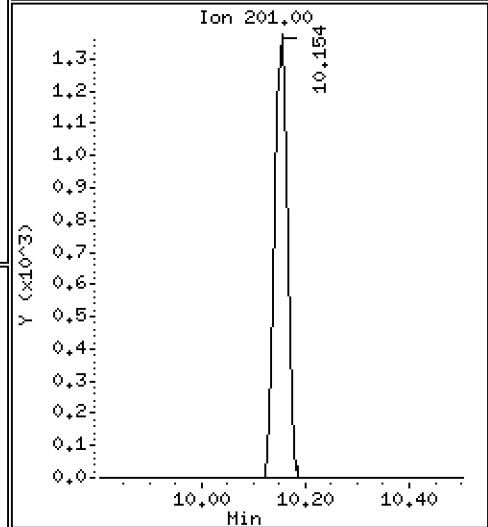
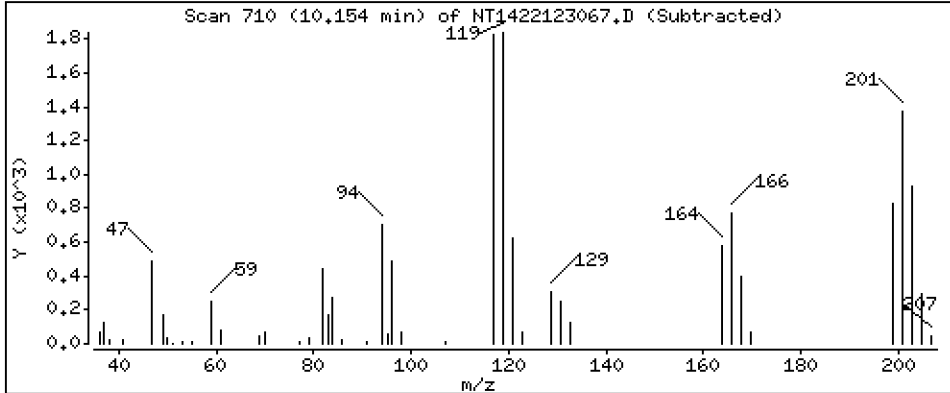
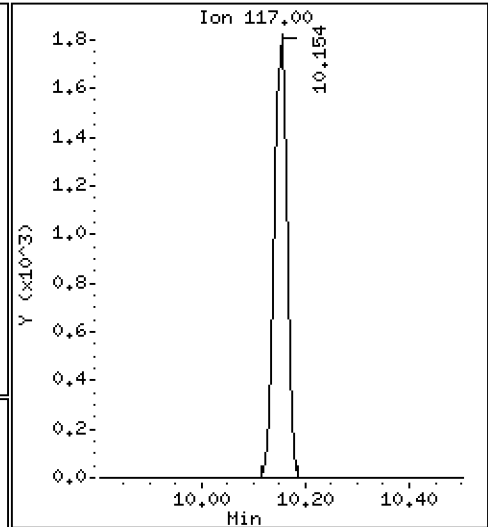
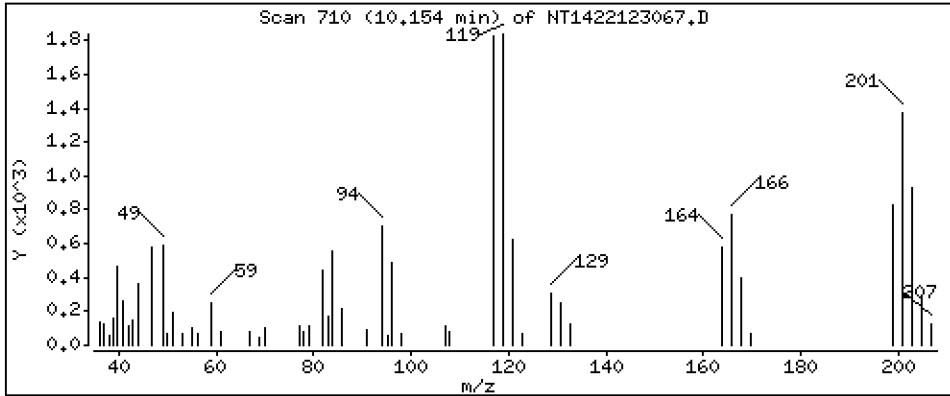
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1979 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

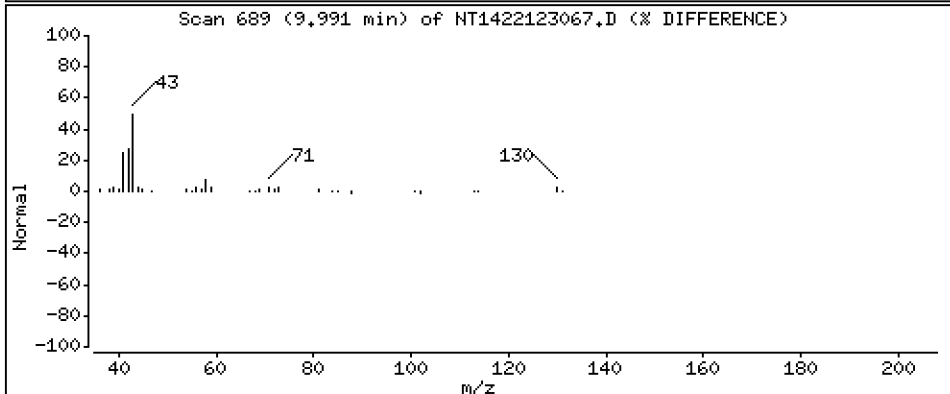
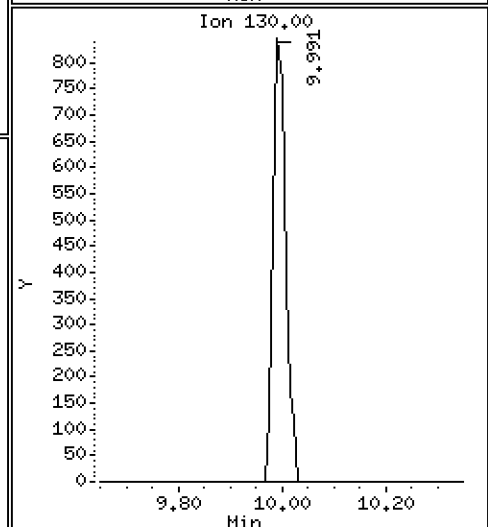
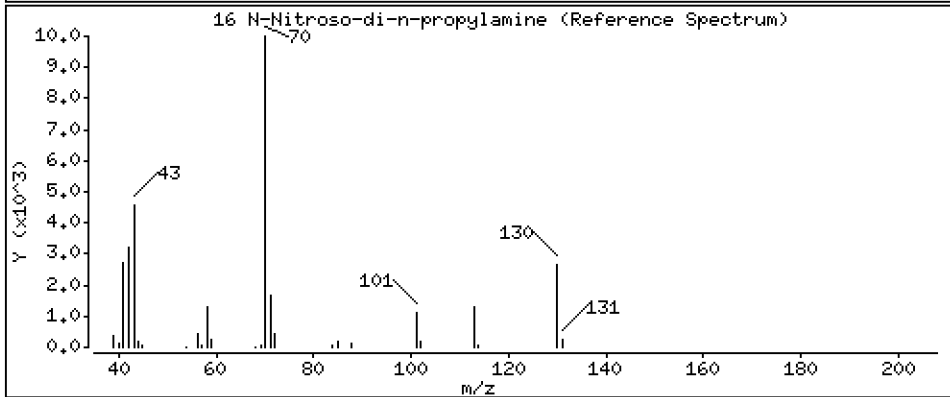
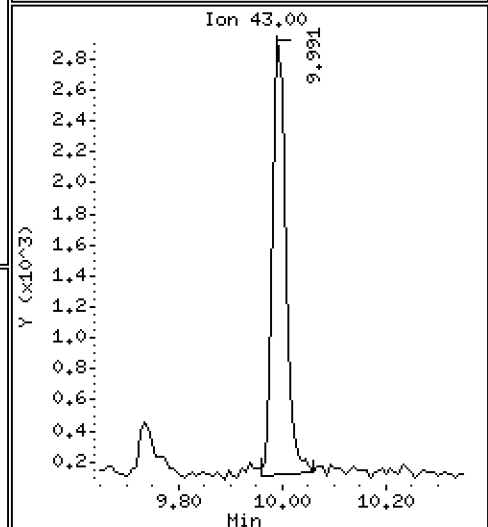
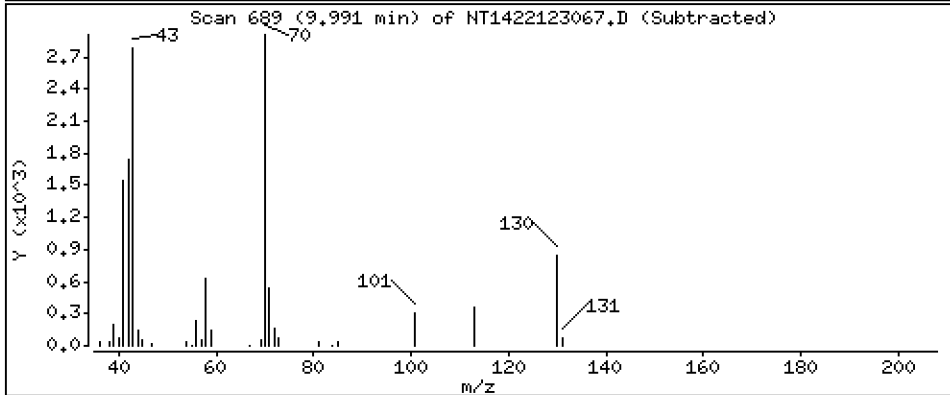
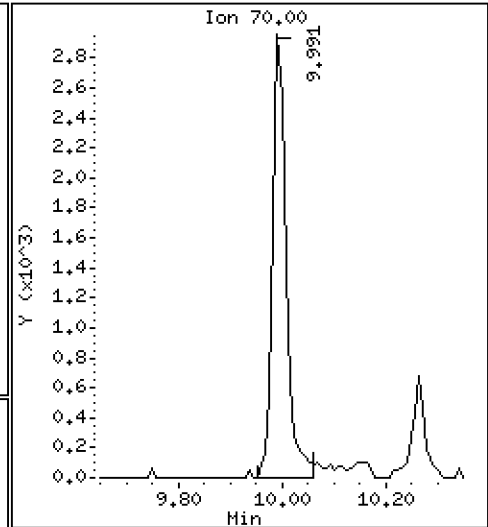
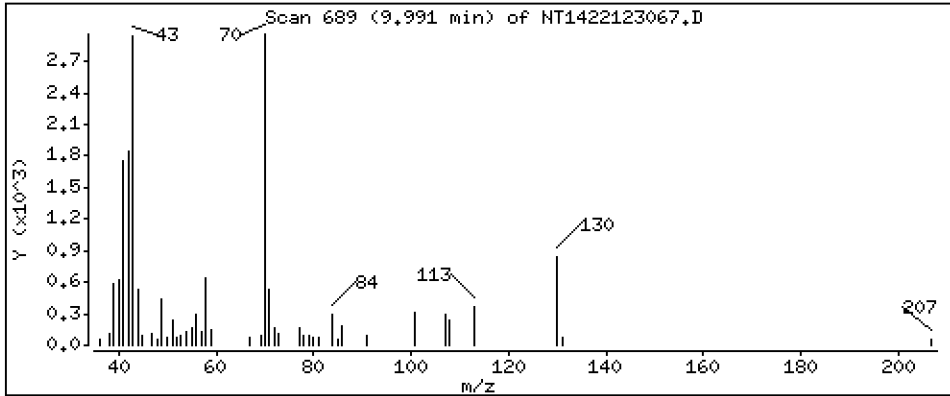
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2352 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

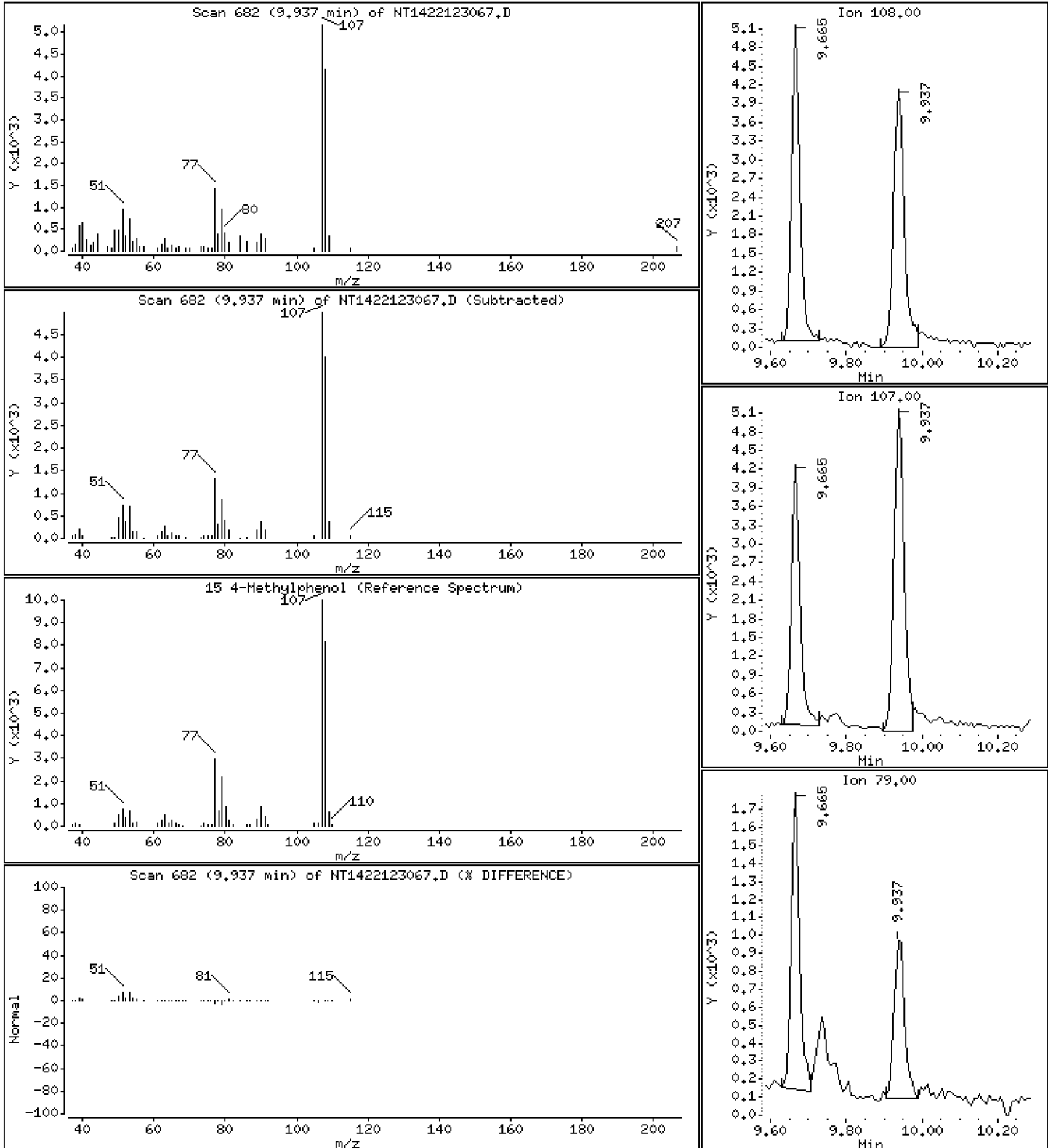
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.2079 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

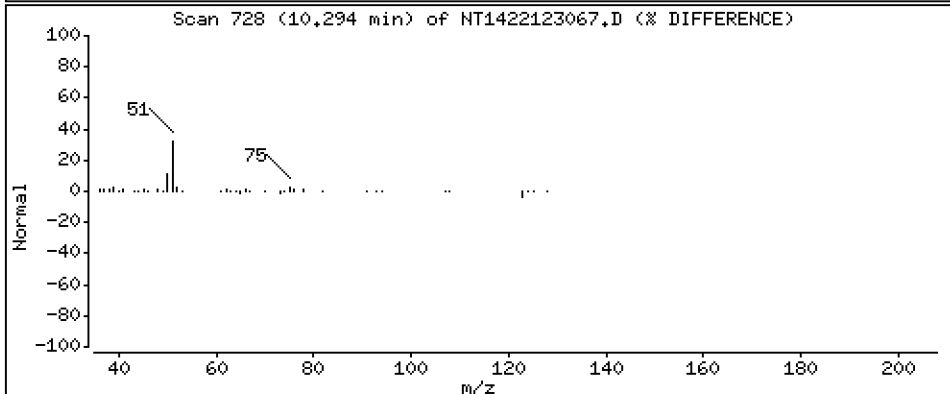
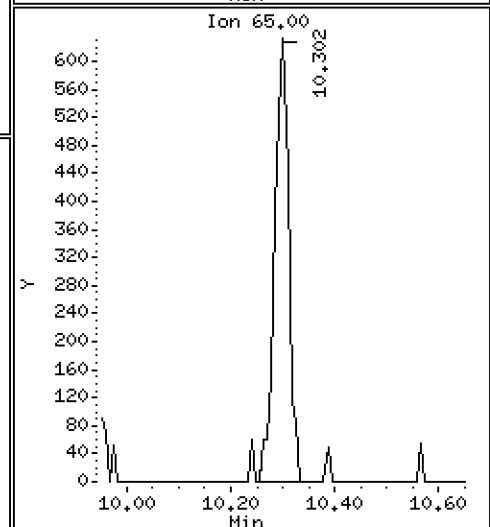
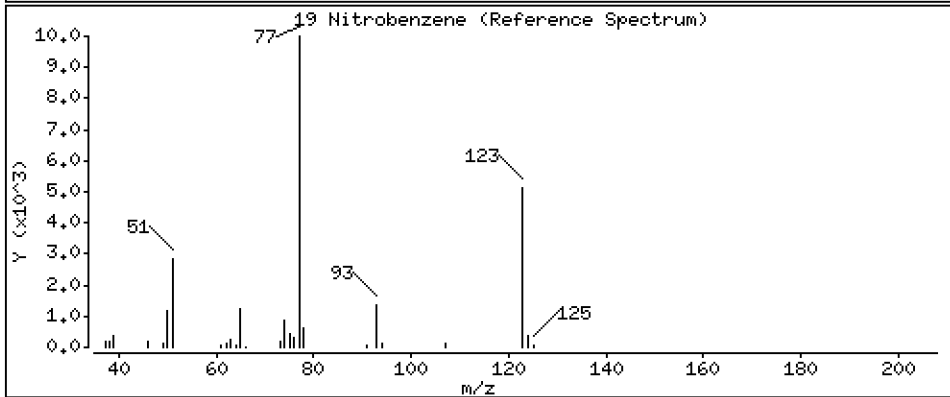
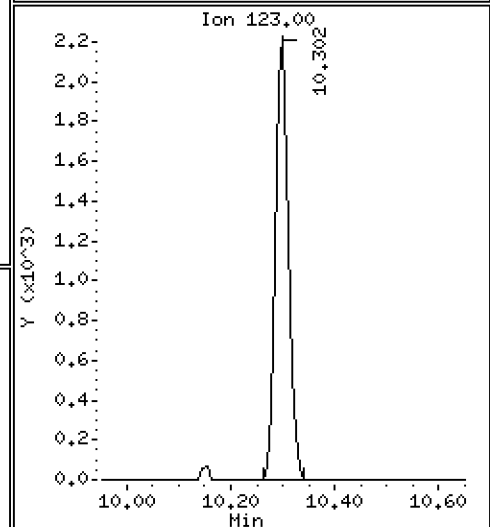
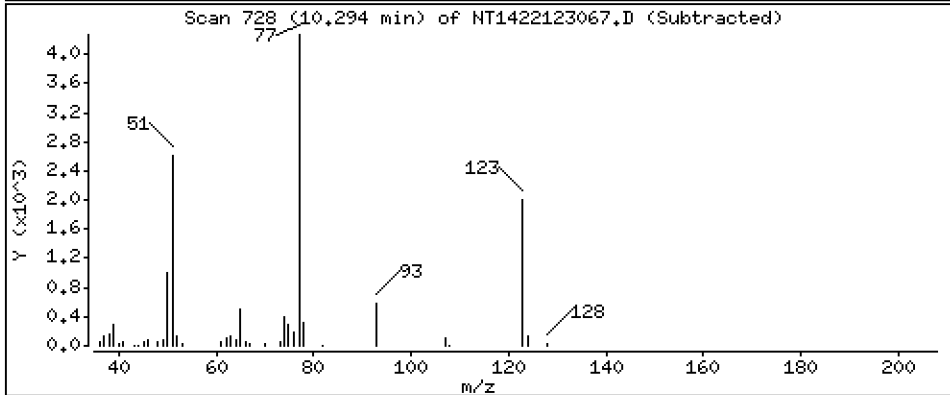
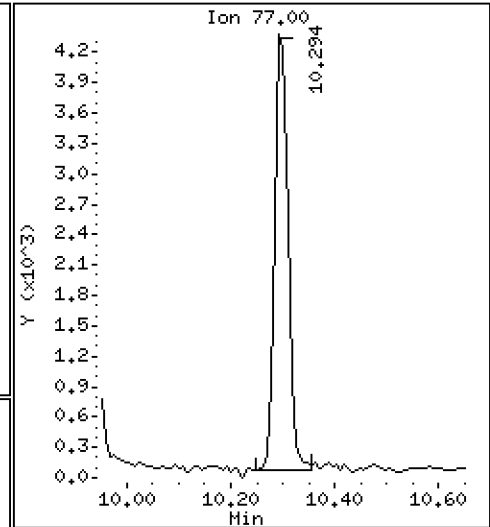
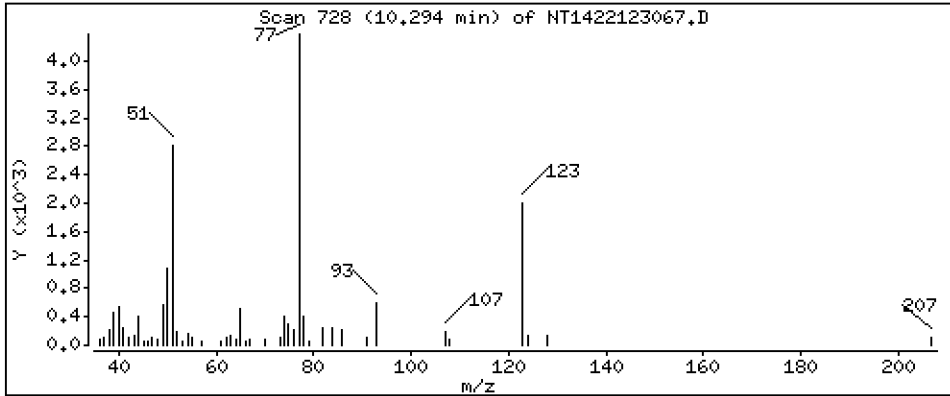
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,2230 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

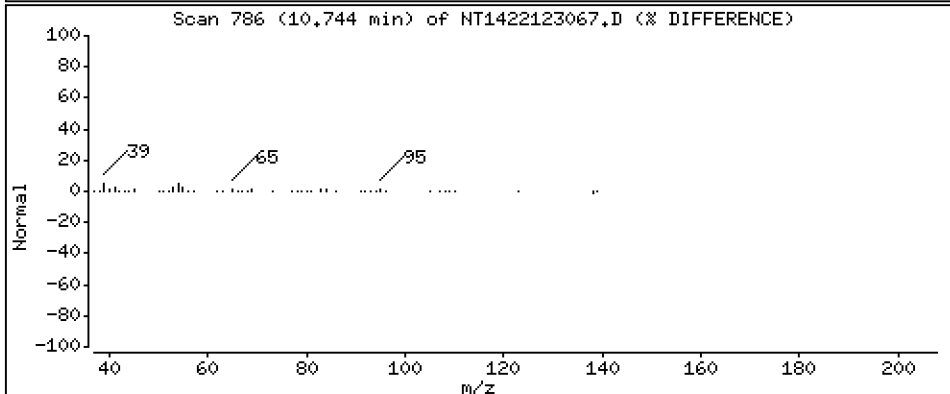
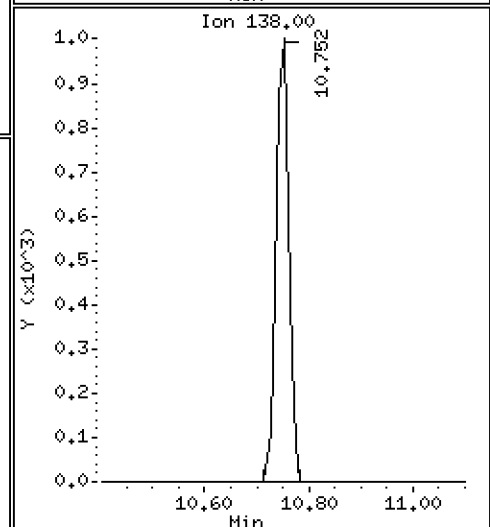
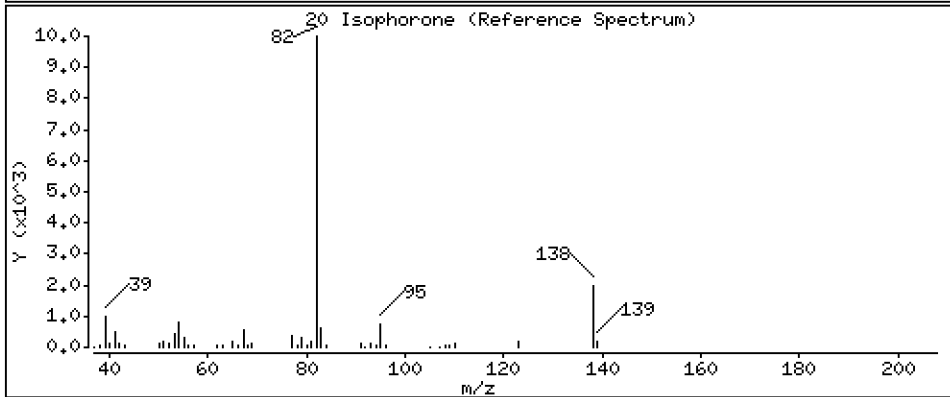
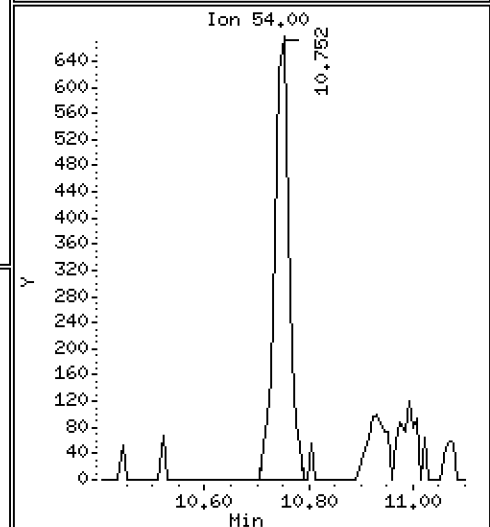
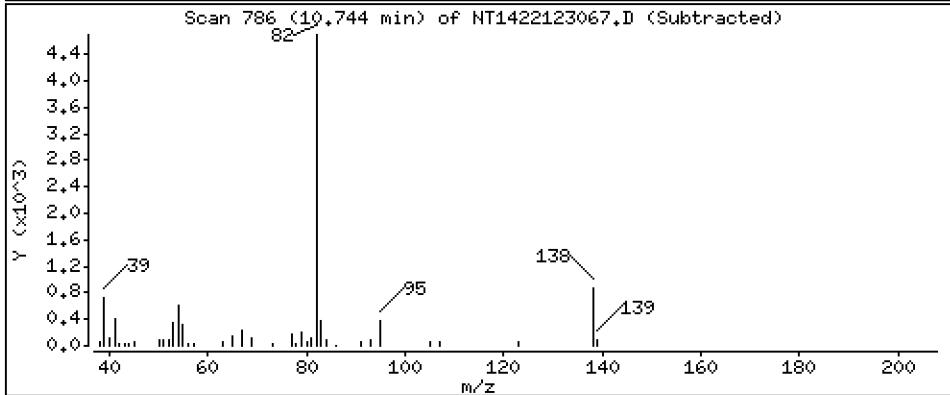
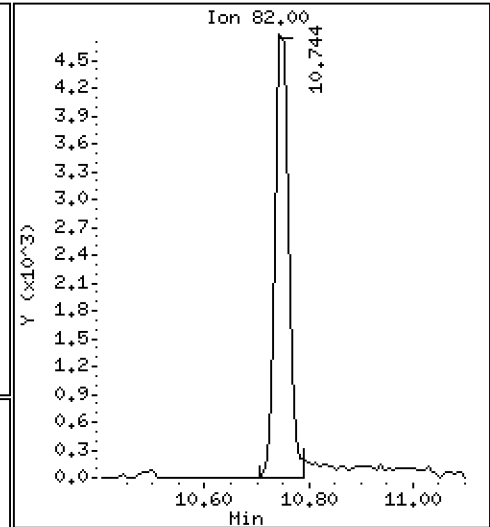
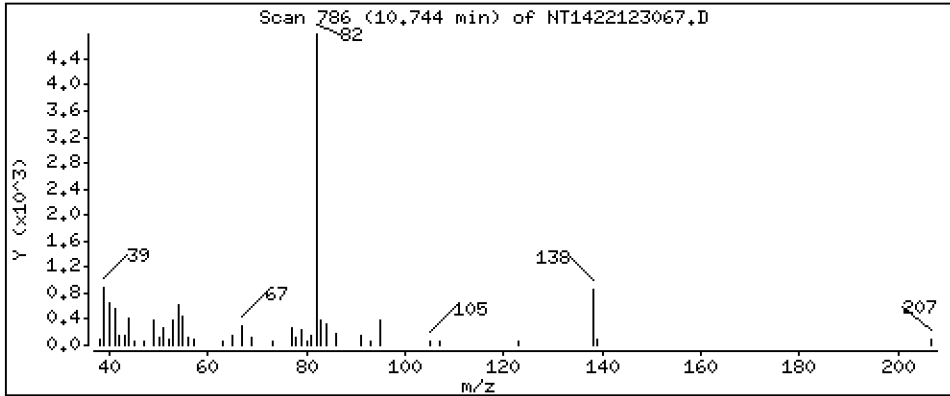
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1972 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

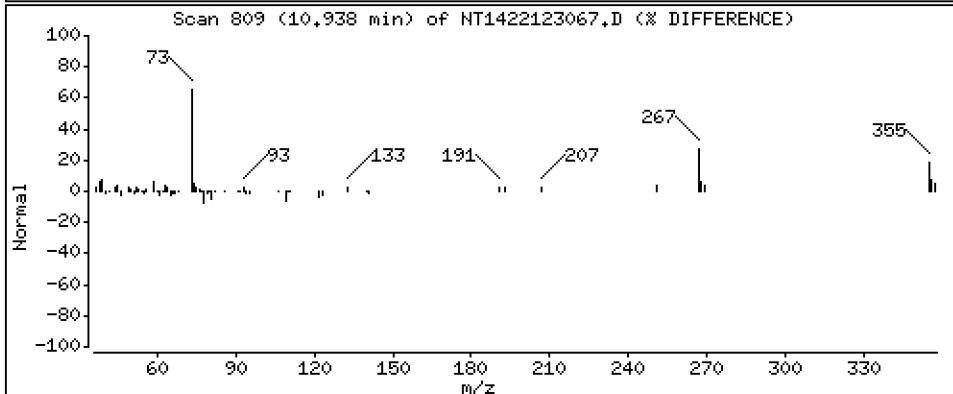
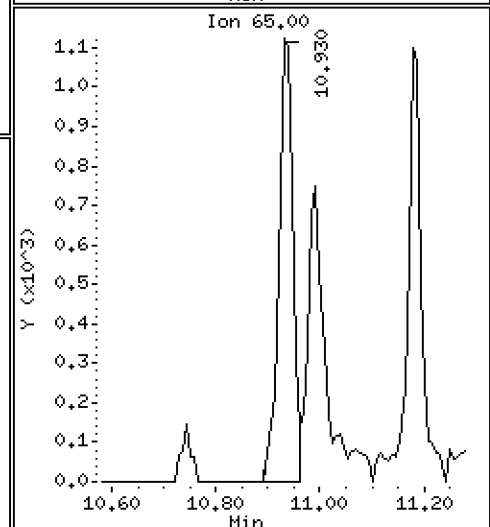
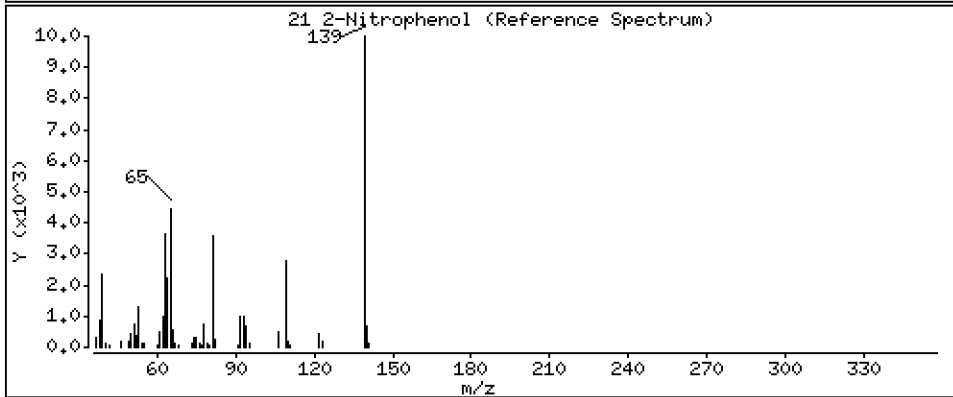
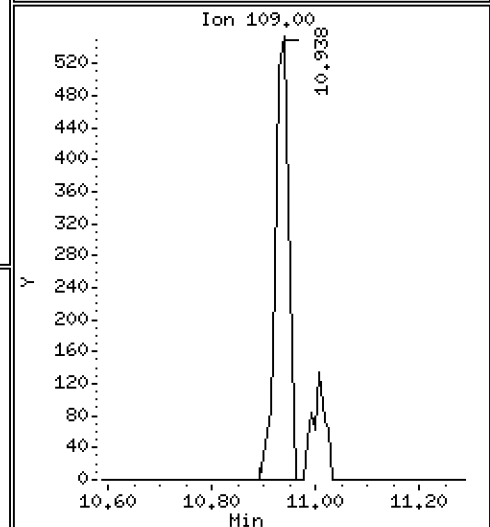
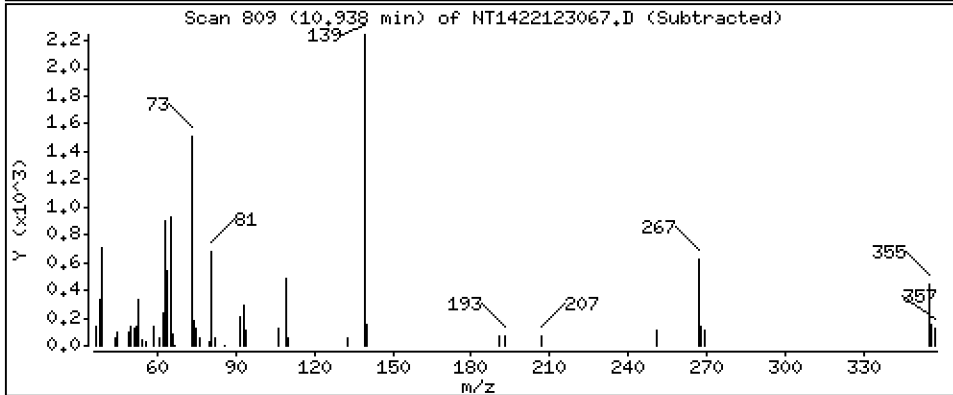
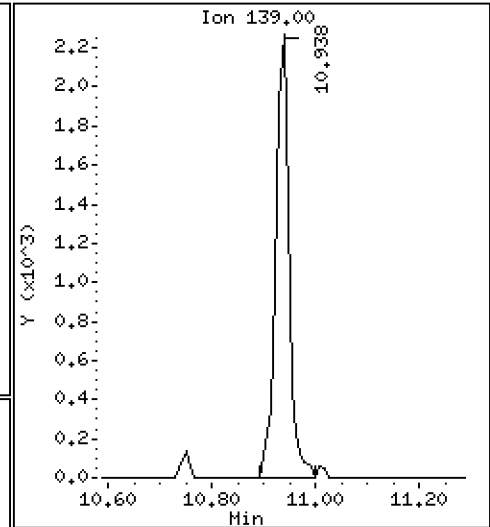
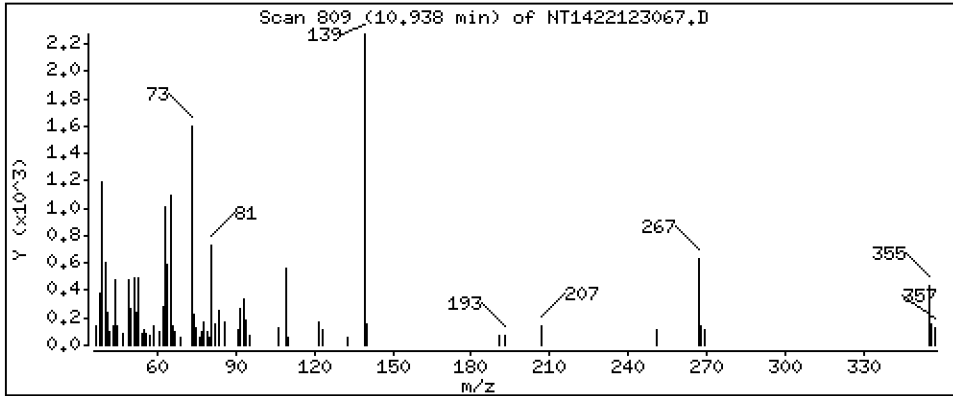
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2116 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

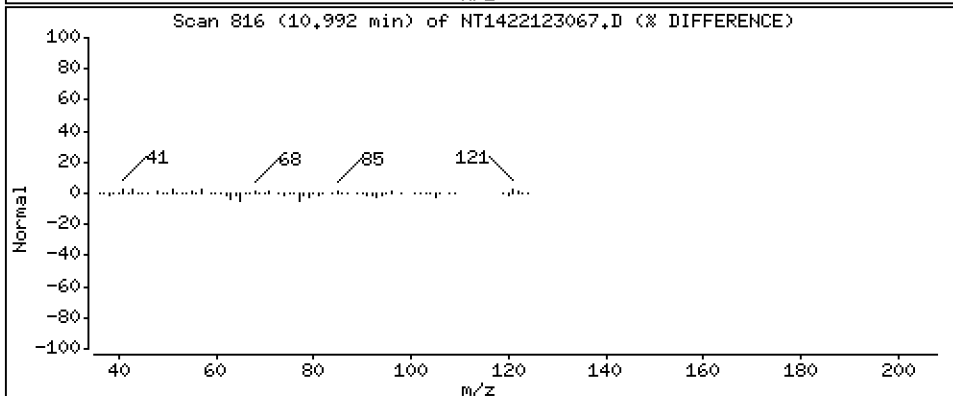
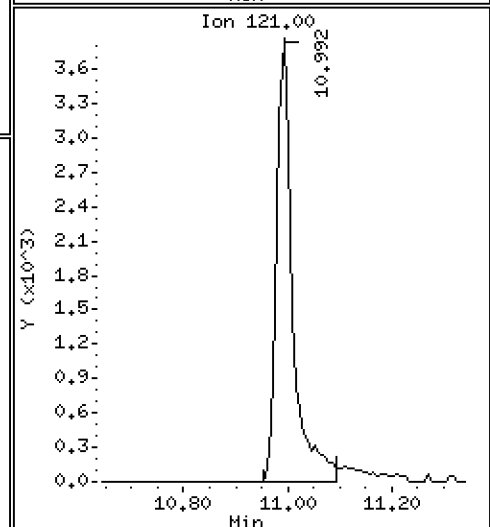
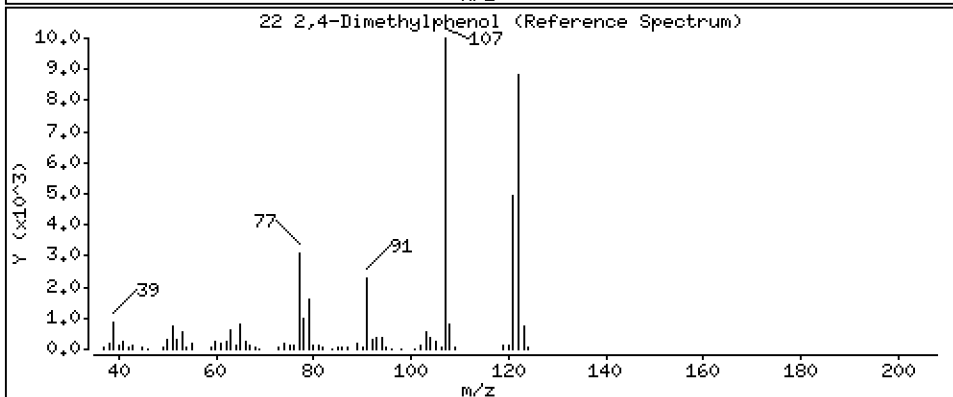
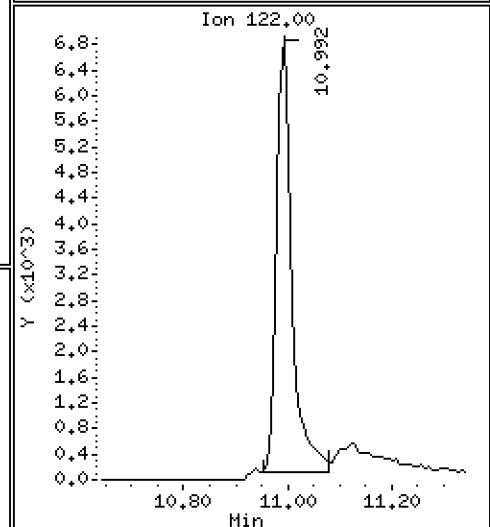
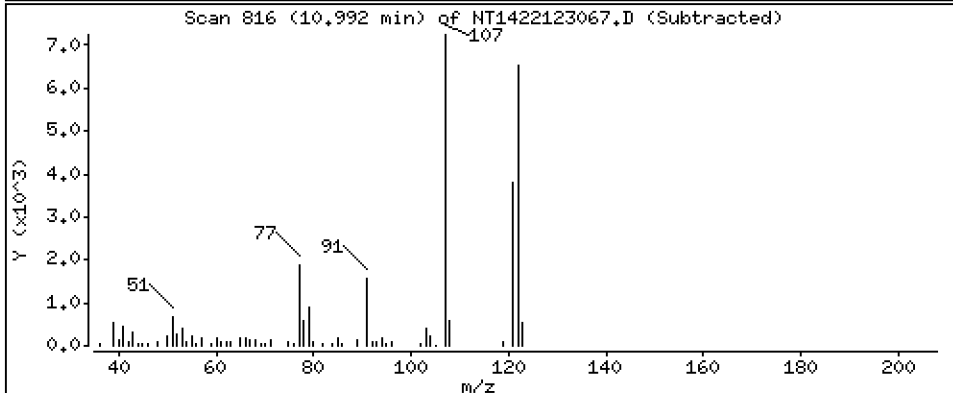
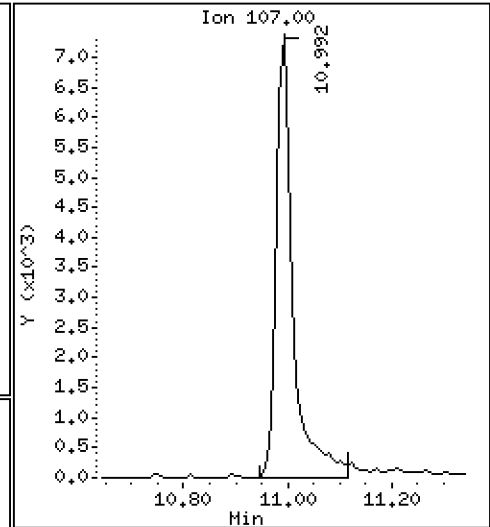
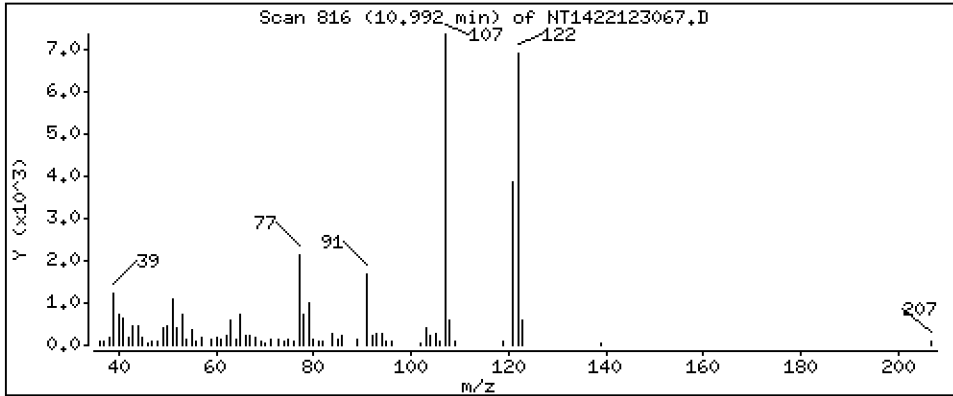
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4590 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

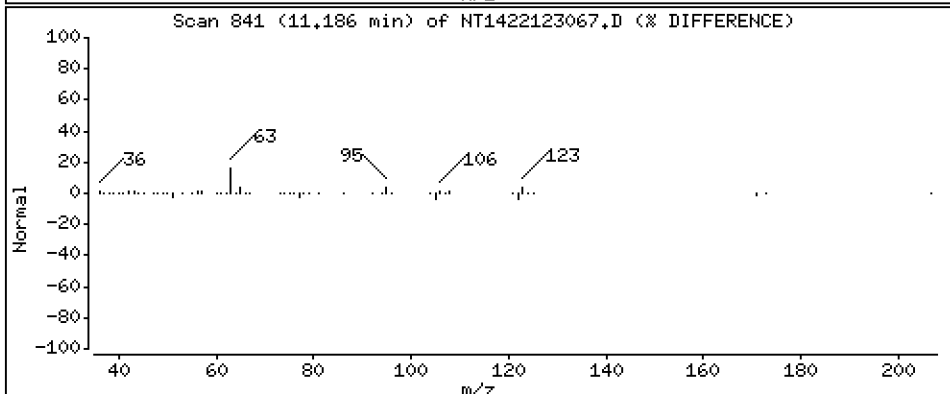
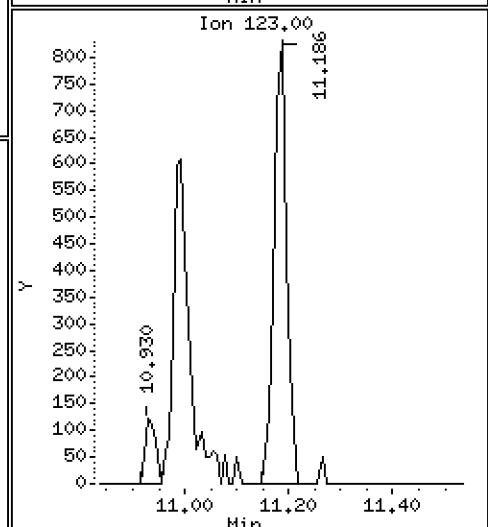
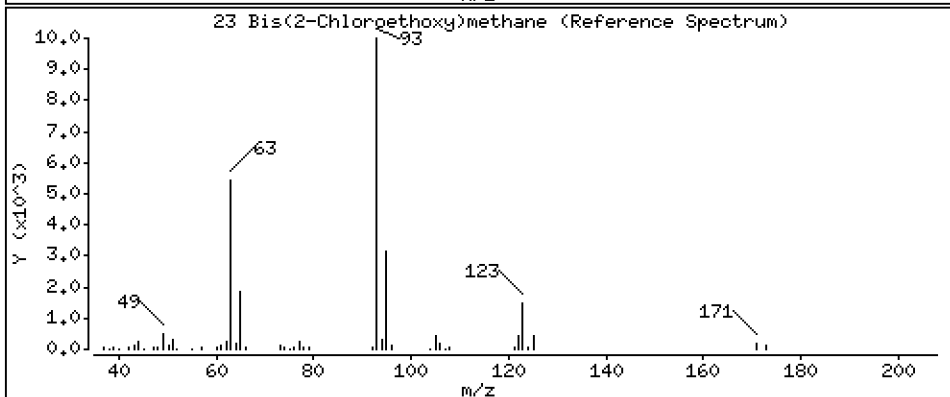
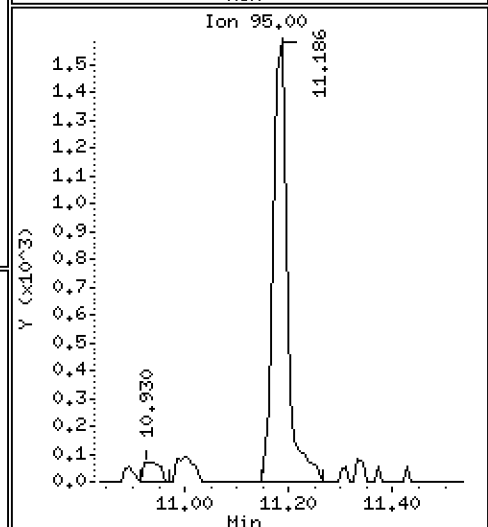
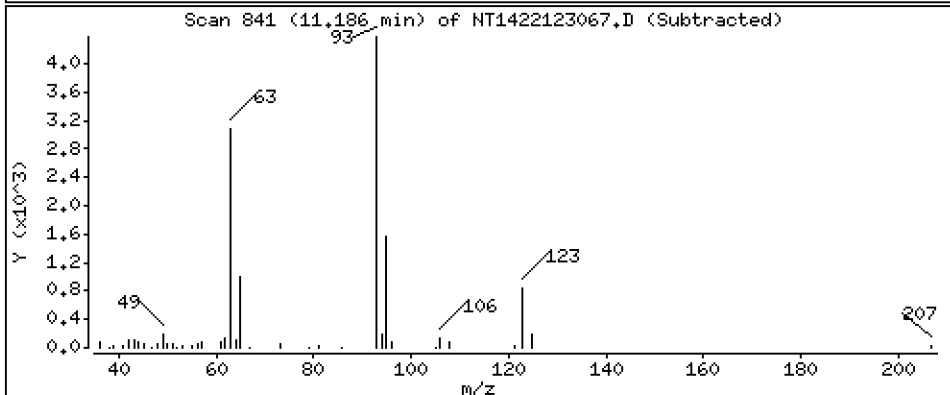
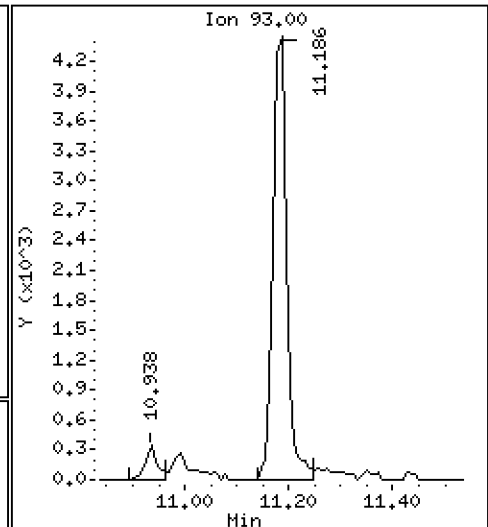
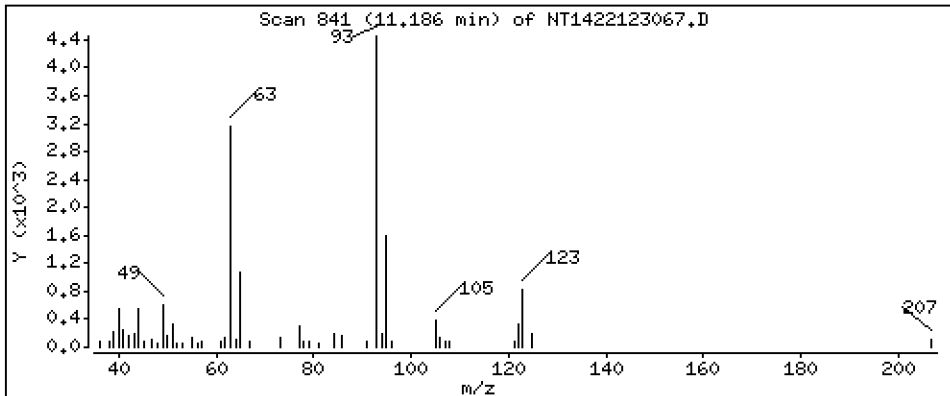
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2359 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

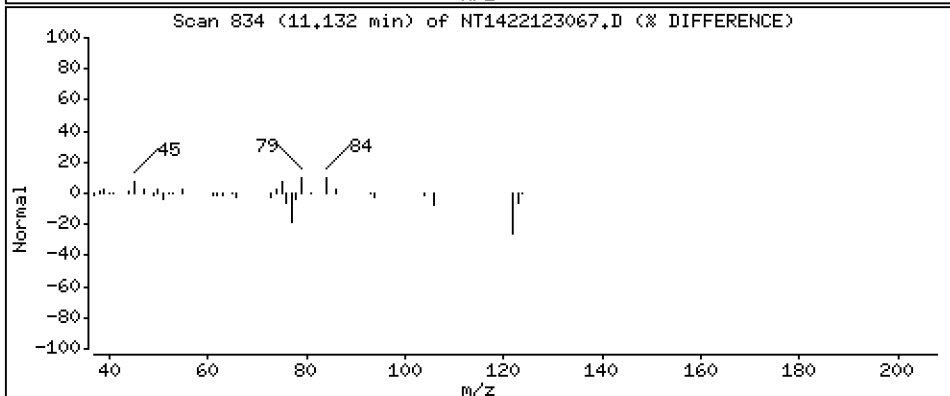
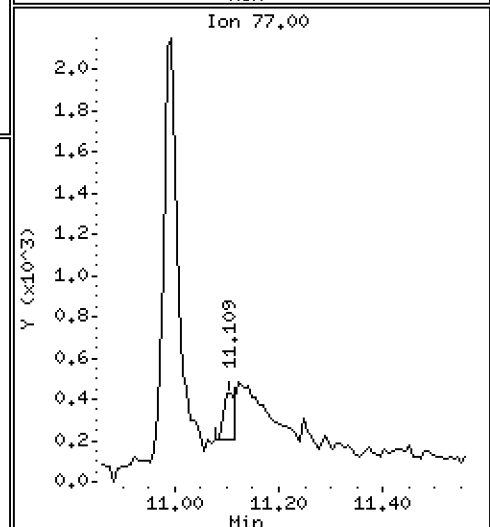
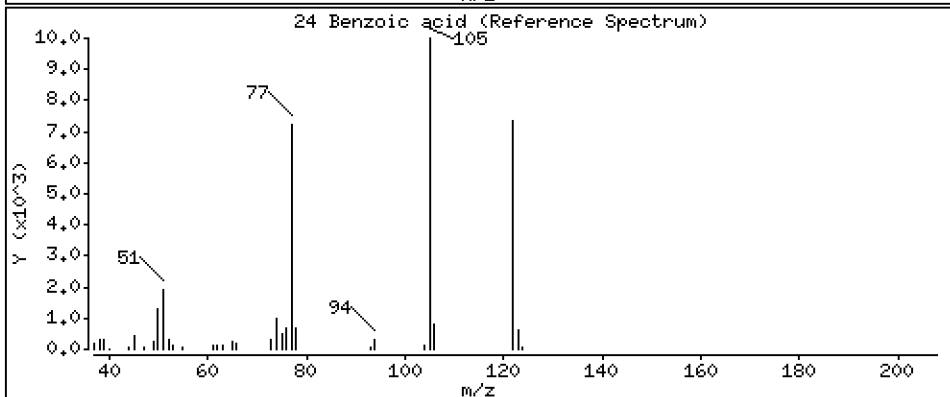
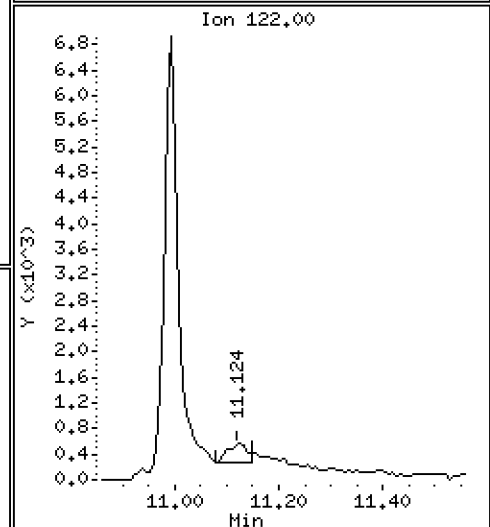
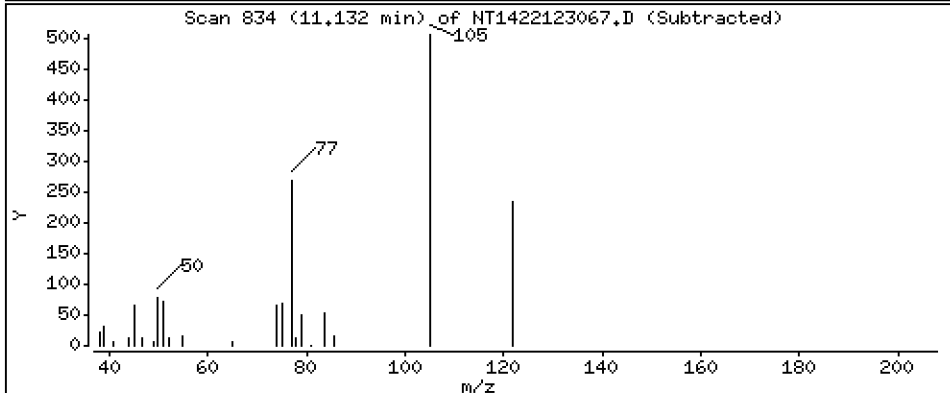
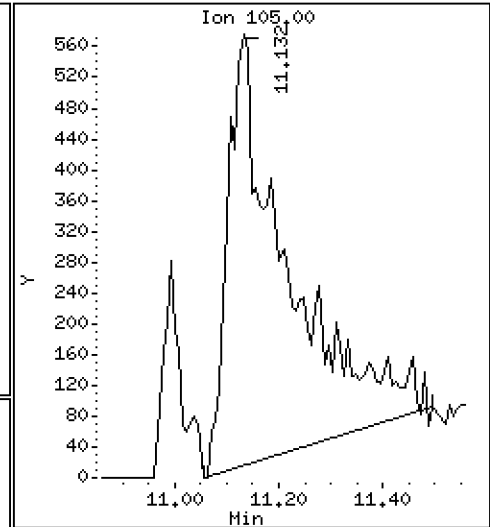
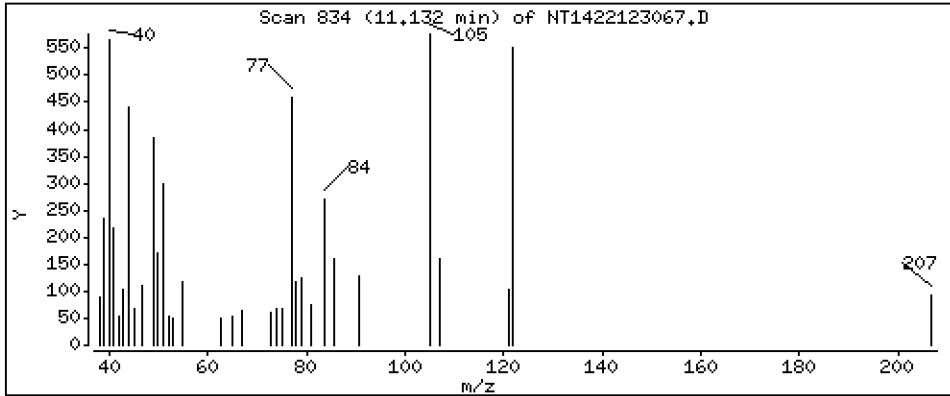
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.2097 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

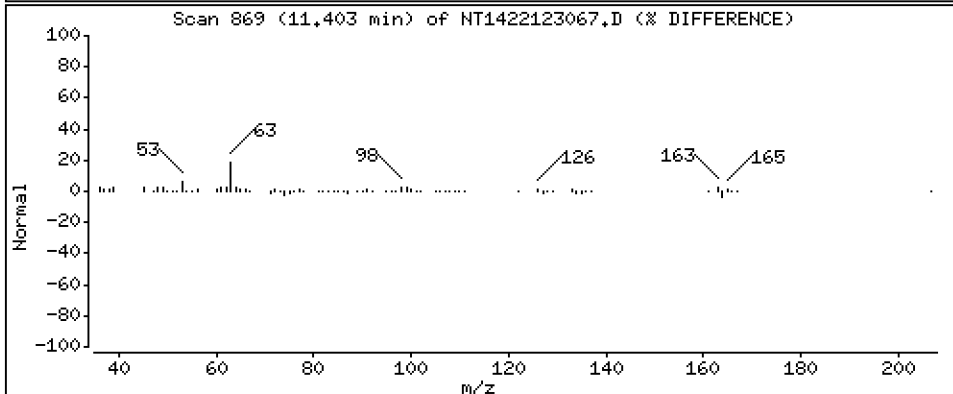
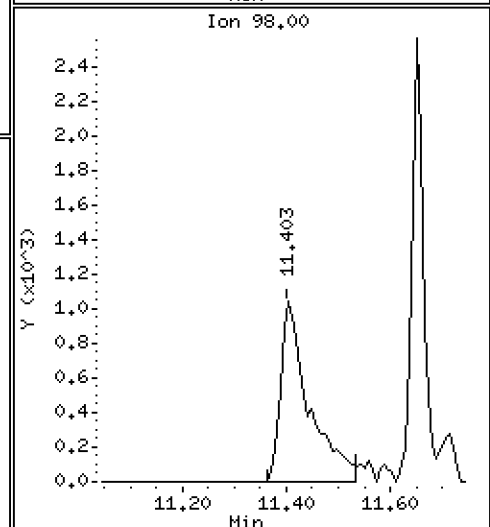
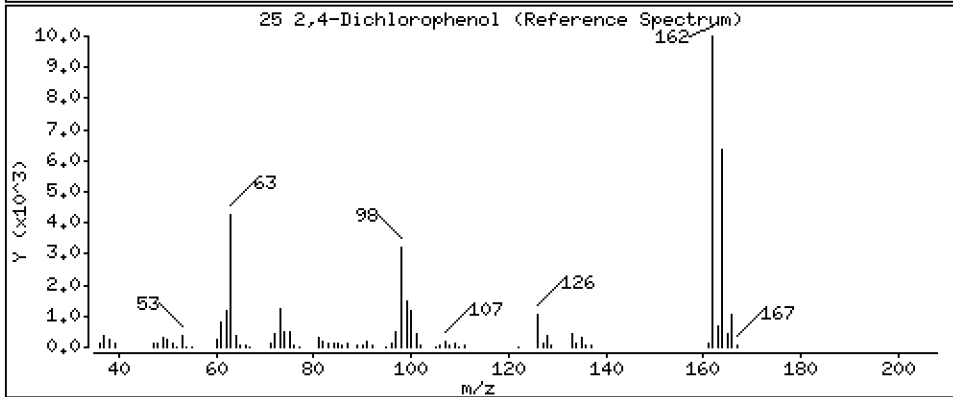
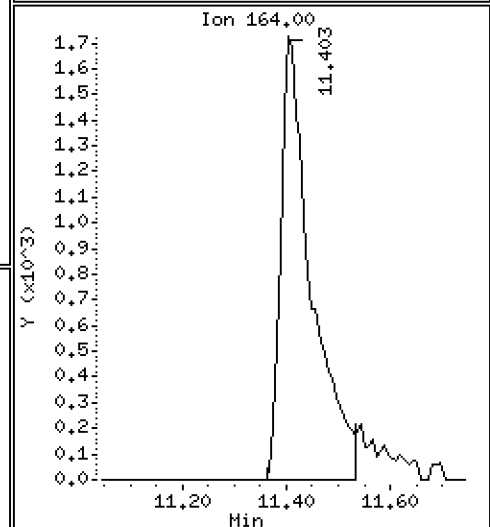
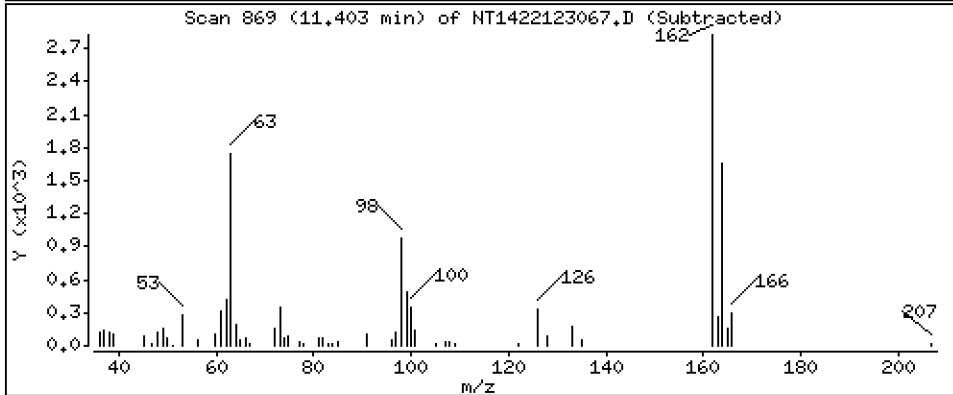
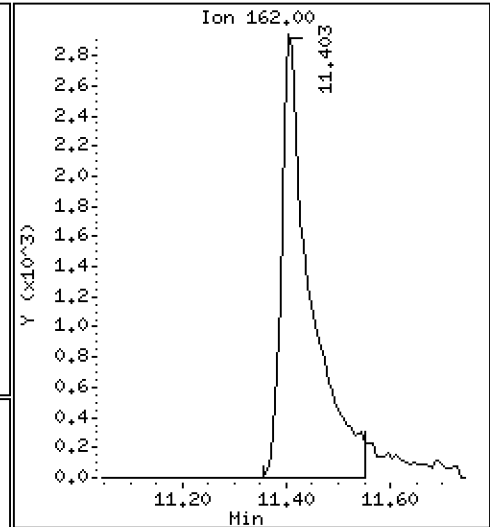
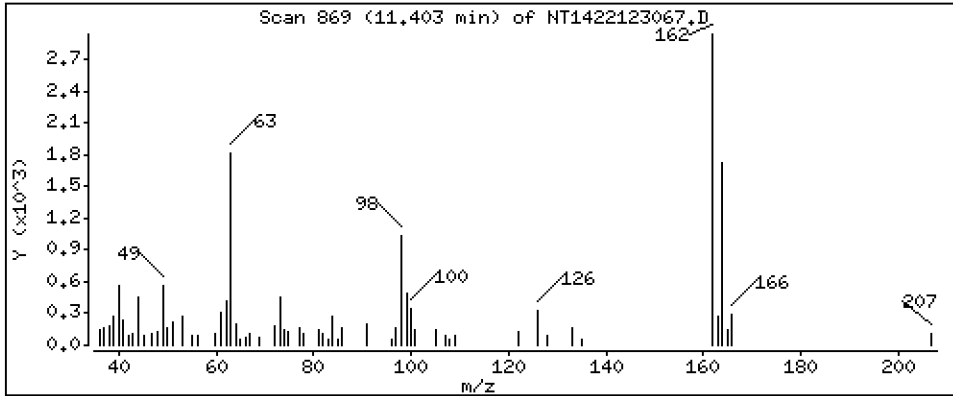
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4100 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

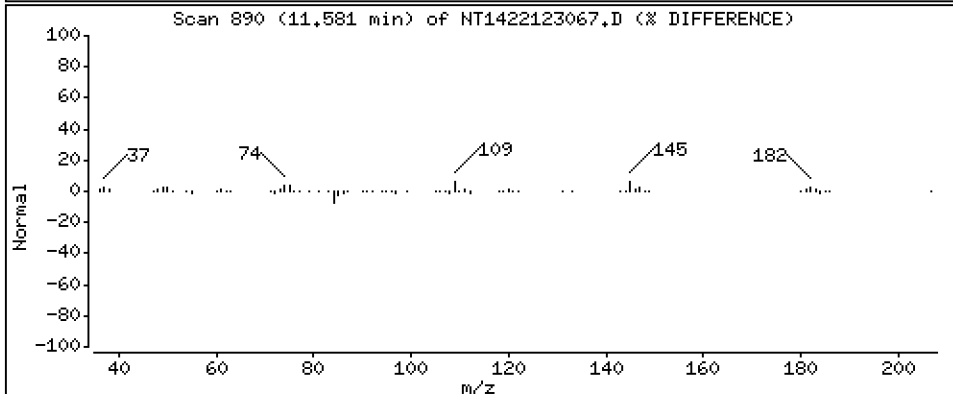
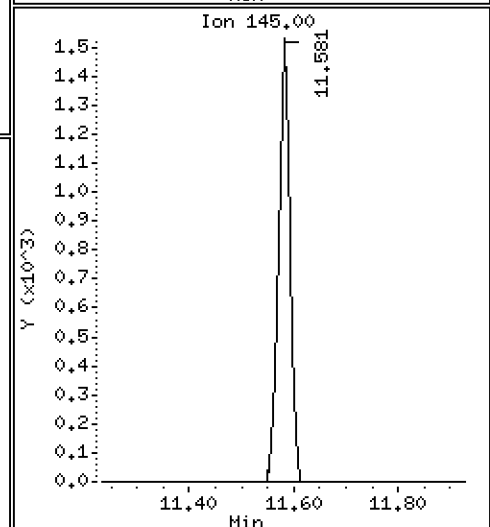
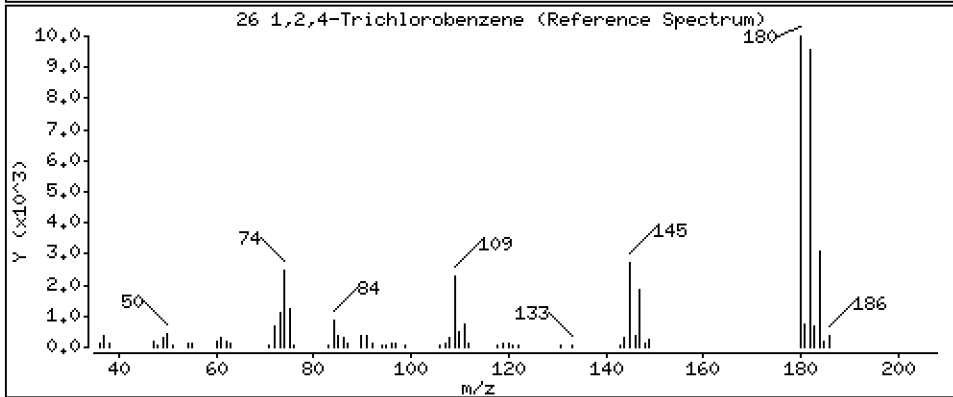
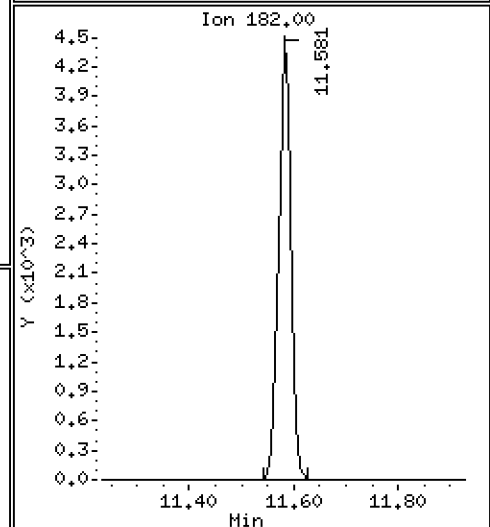
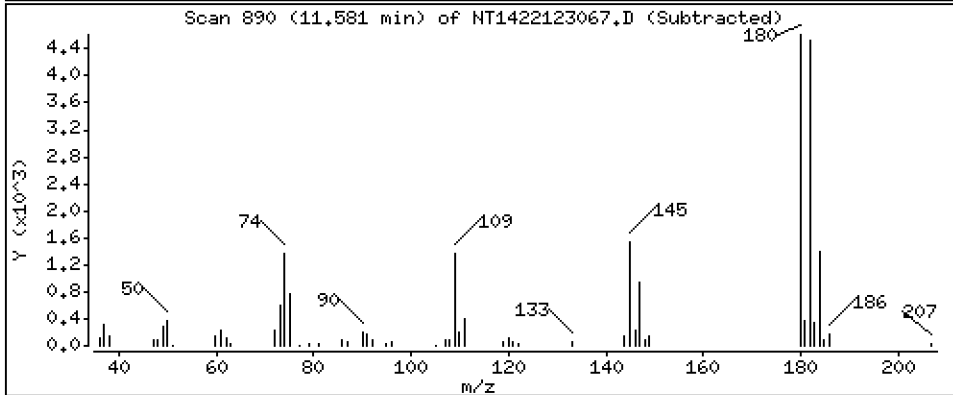
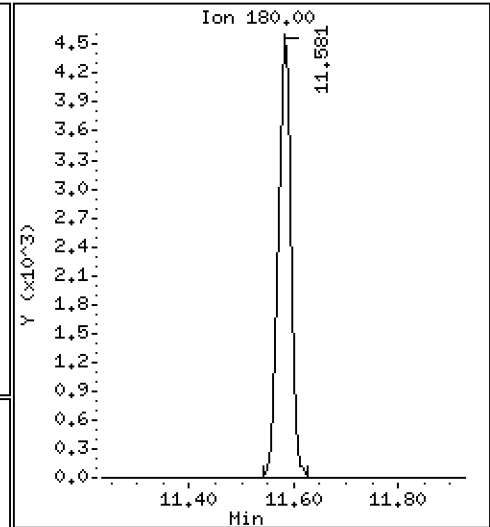
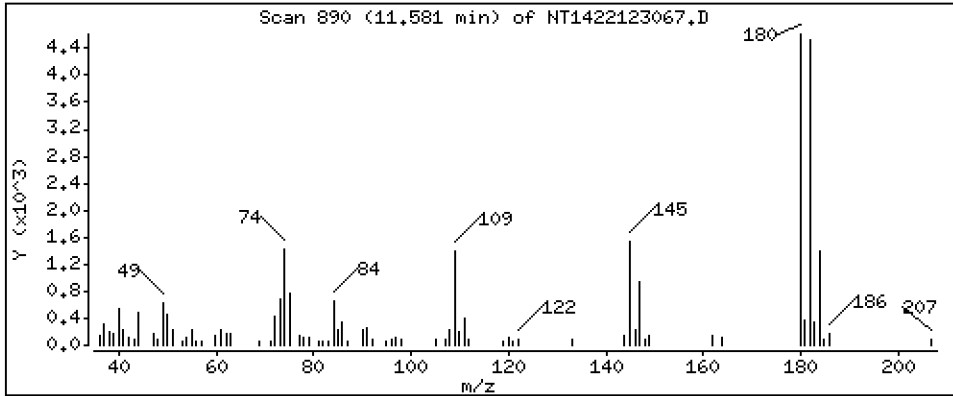
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2401 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

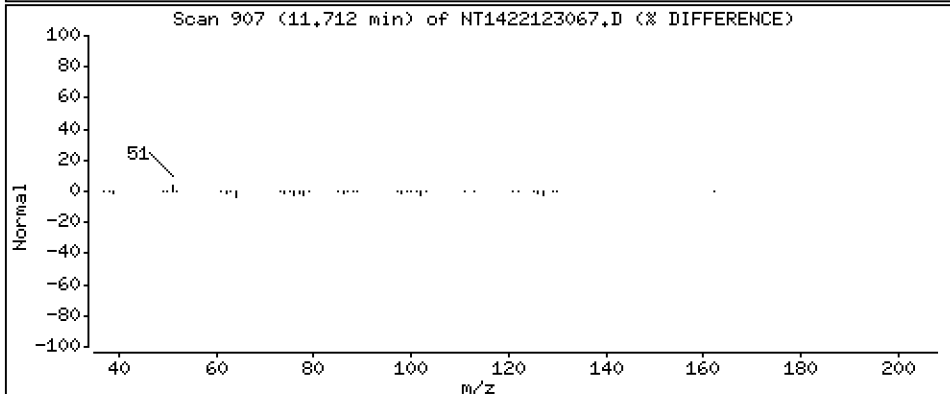
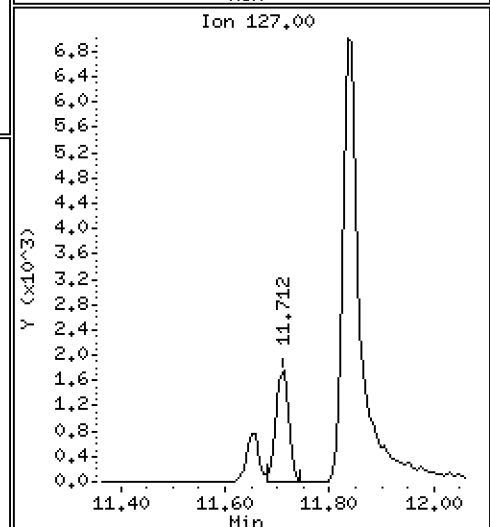
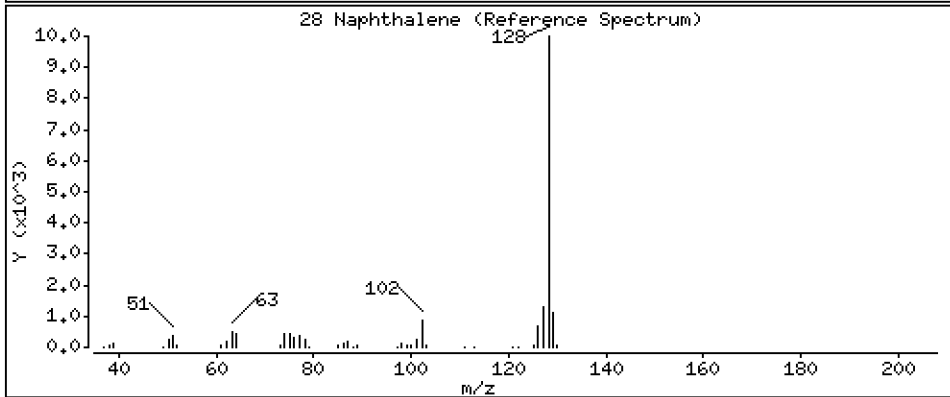
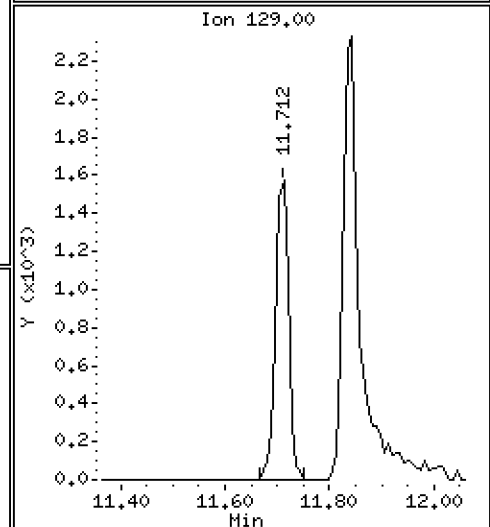
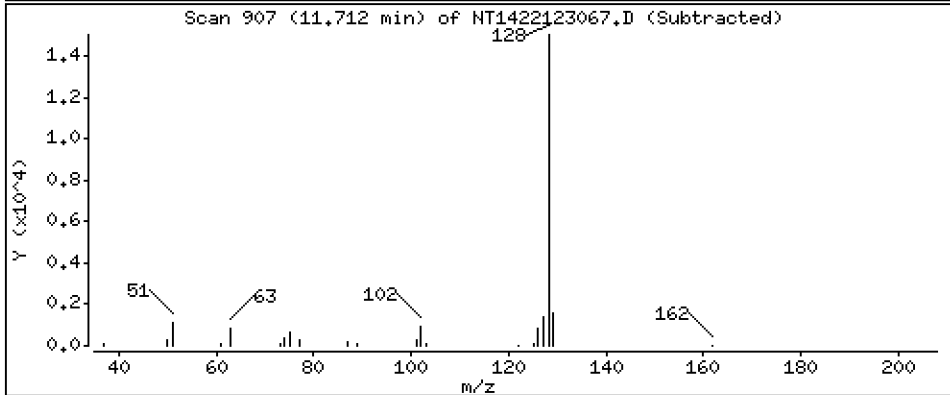
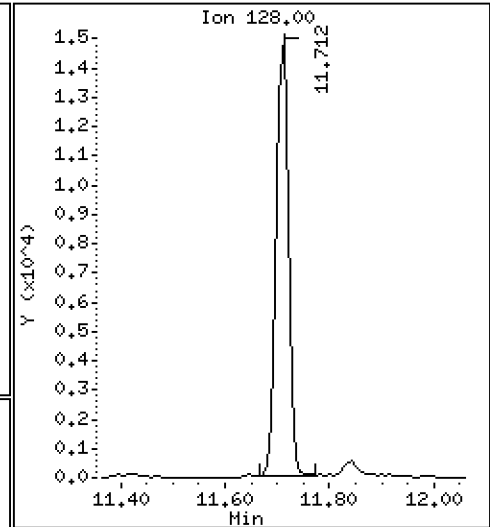
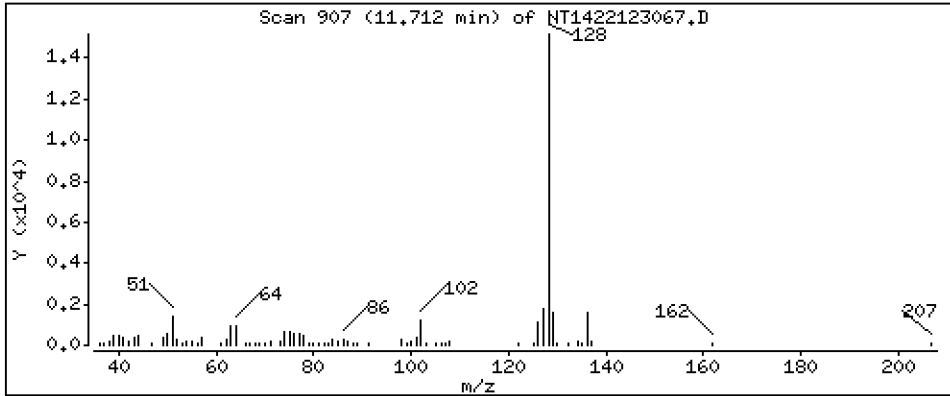
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2355 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

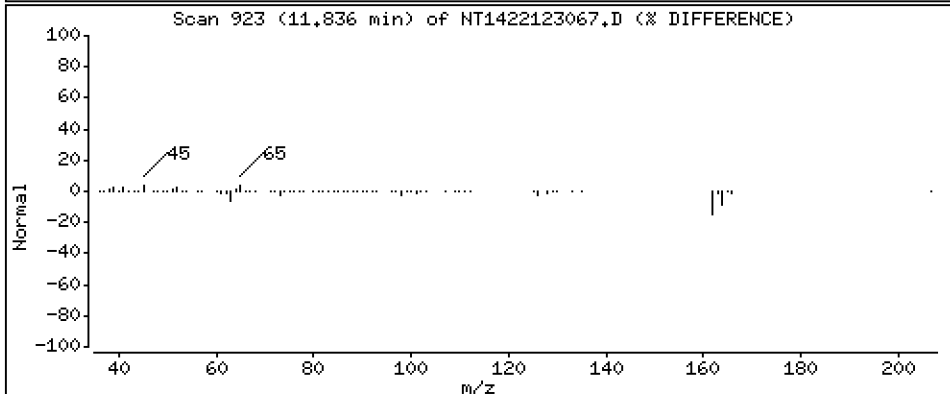
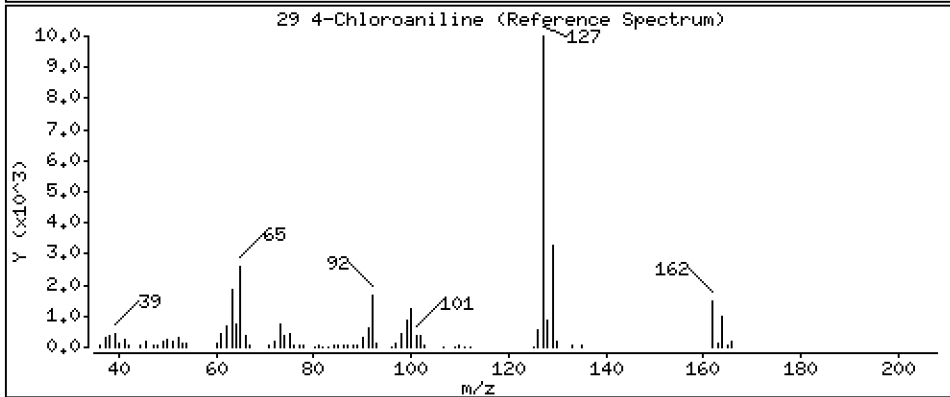
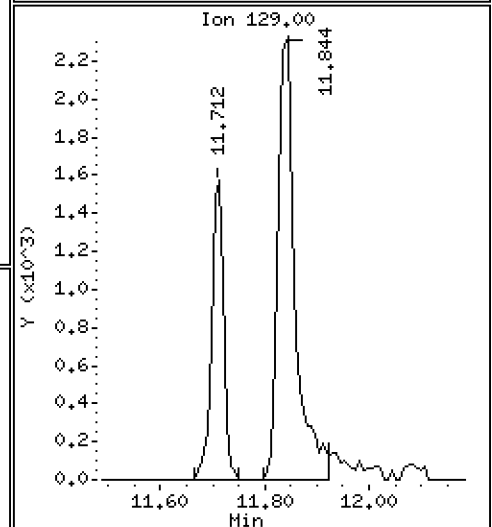
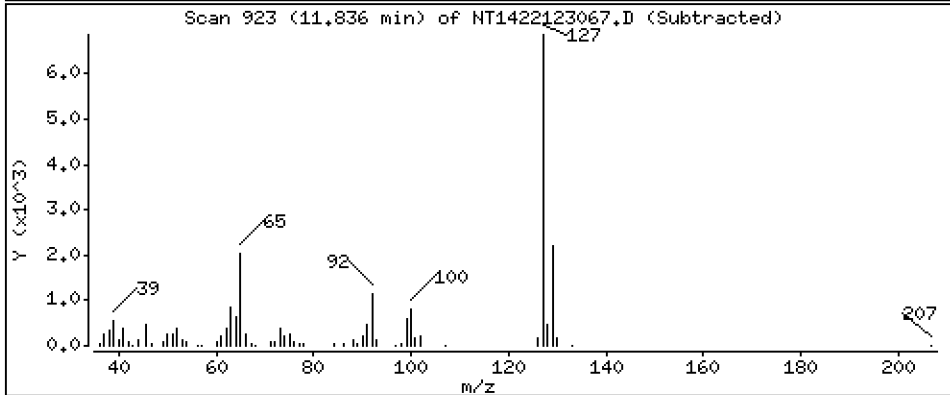
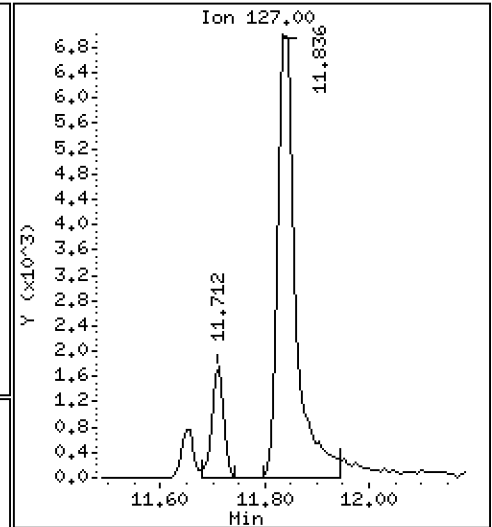
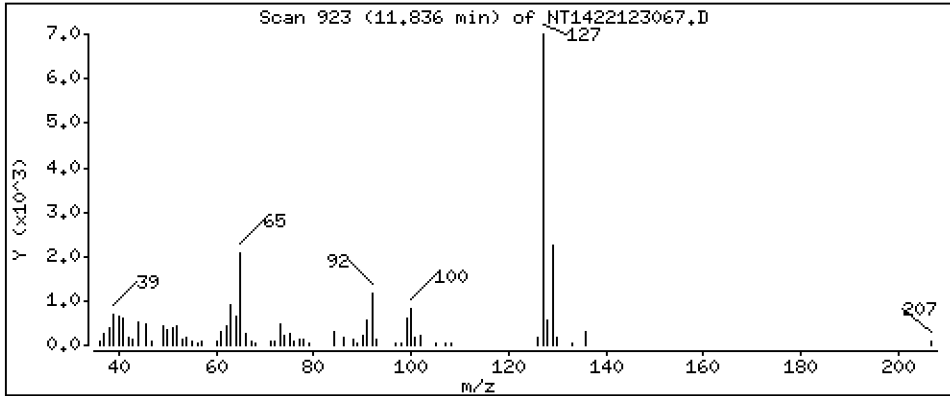
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

29 4-Chloroaniline

Concentration: 0.4051 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

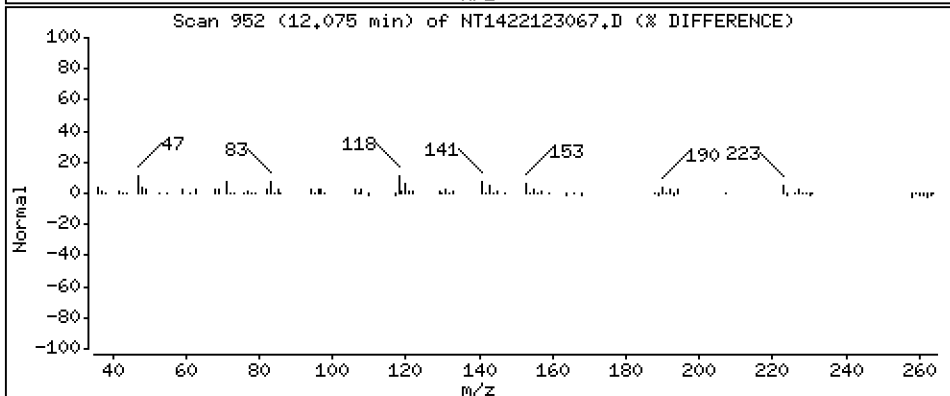
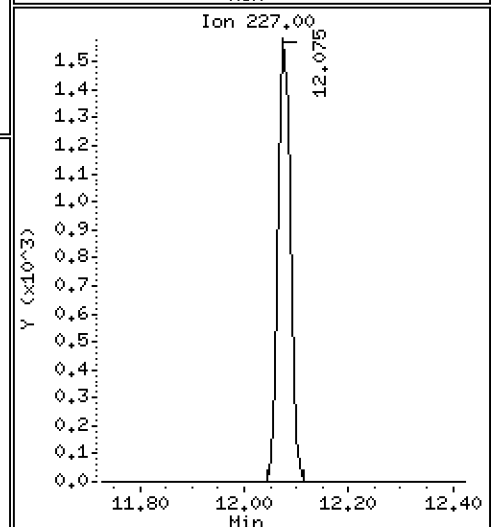
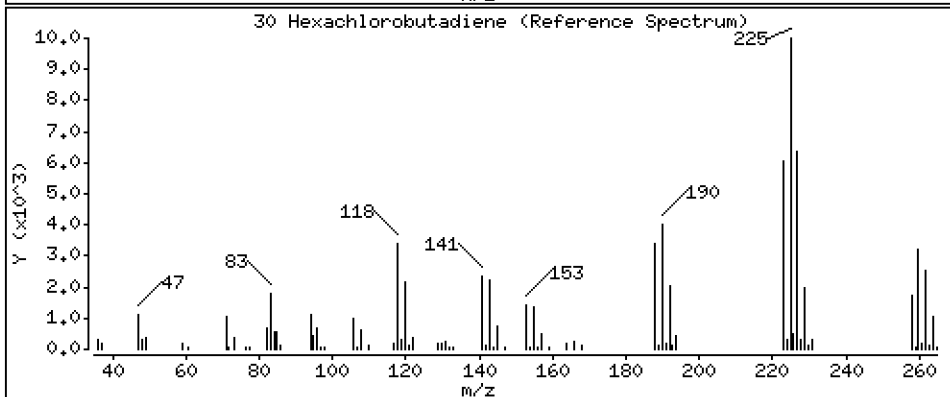
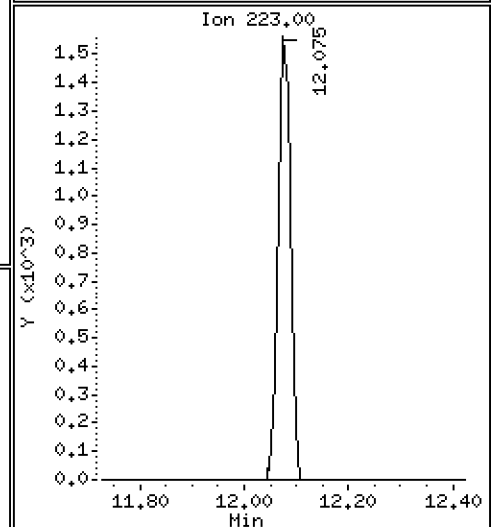
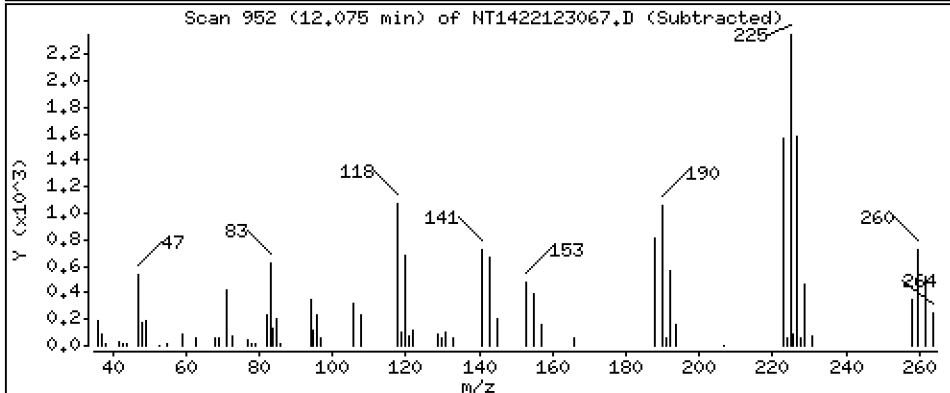
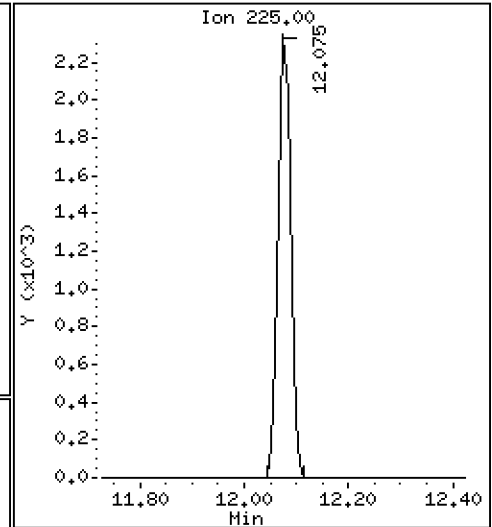
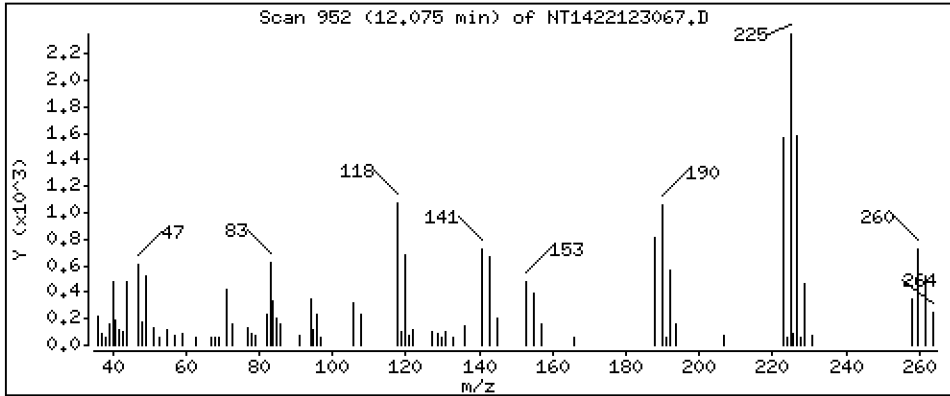
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2380 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

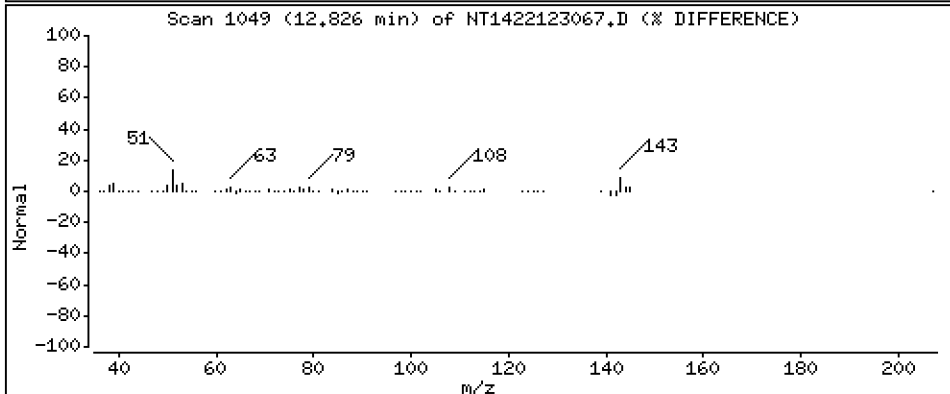
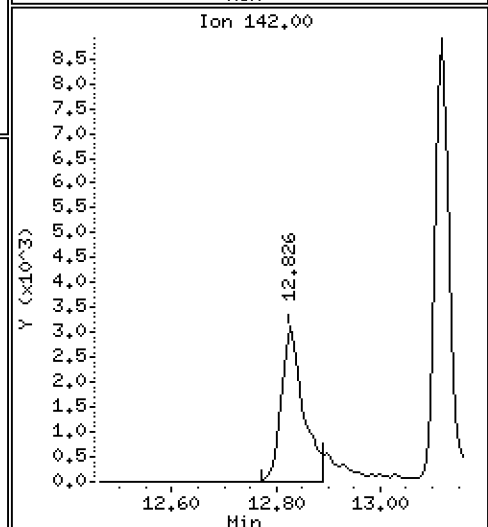
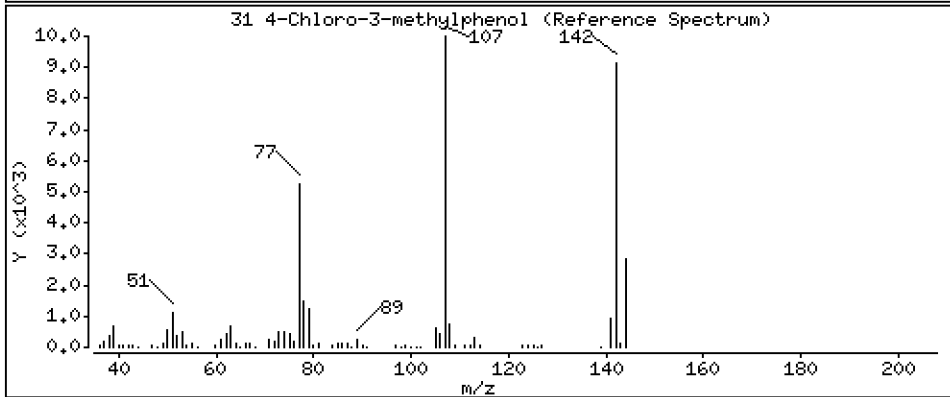
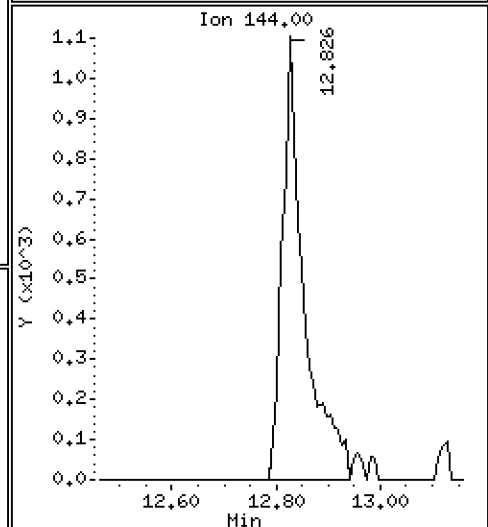
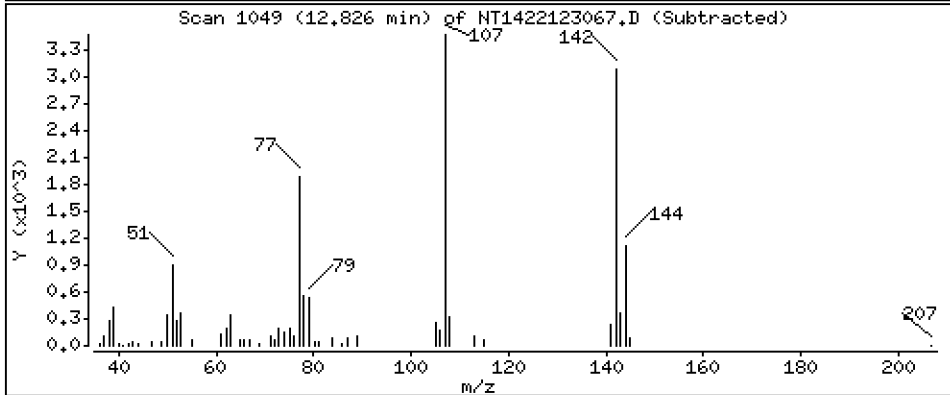
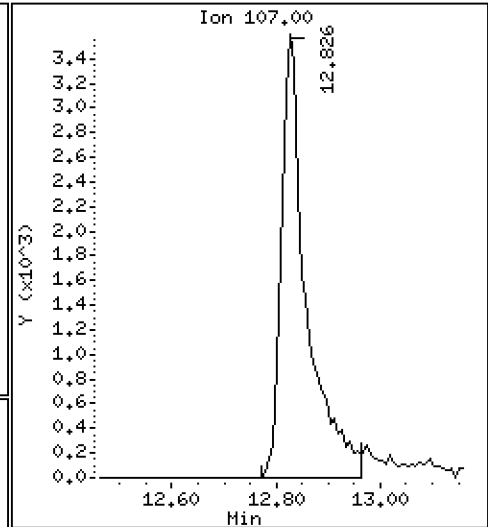
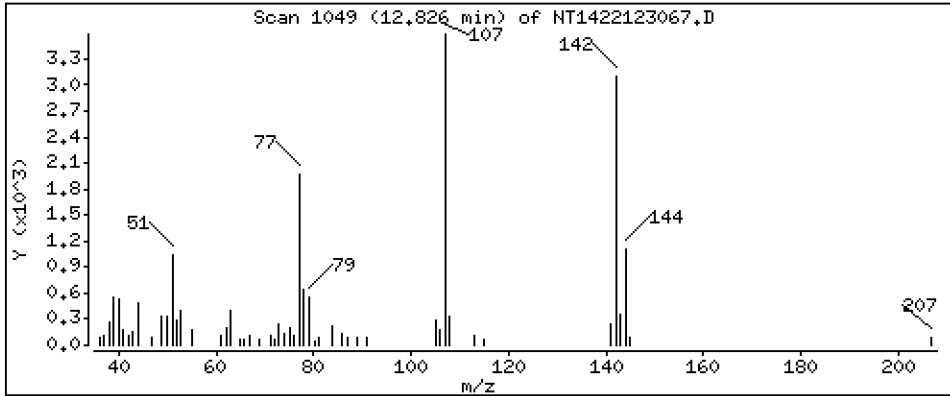
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.4327 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

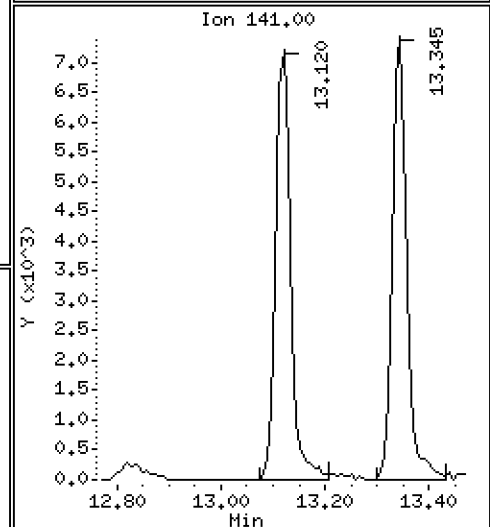
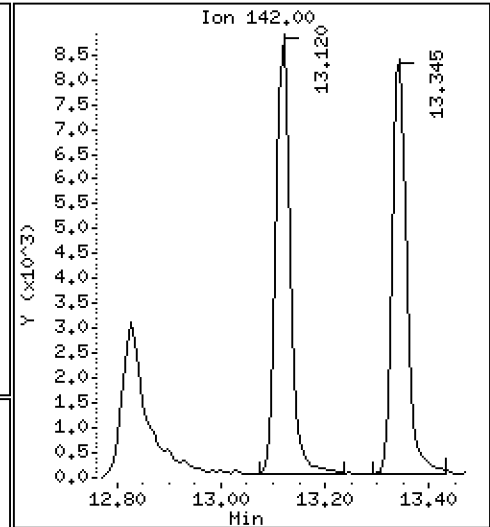
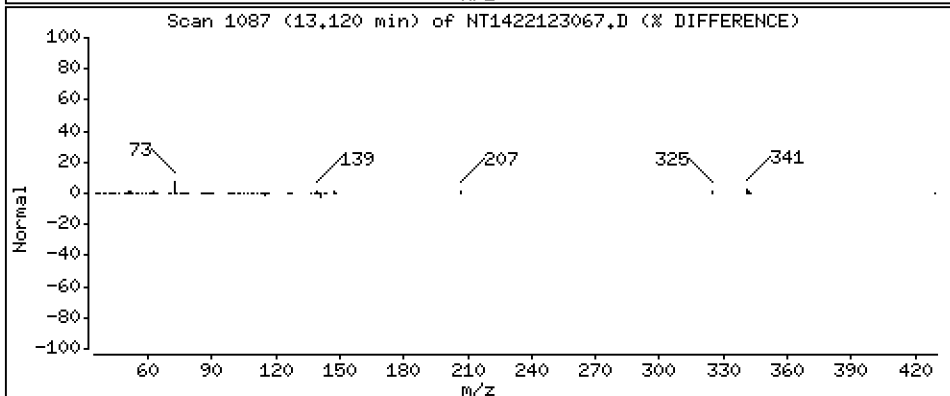
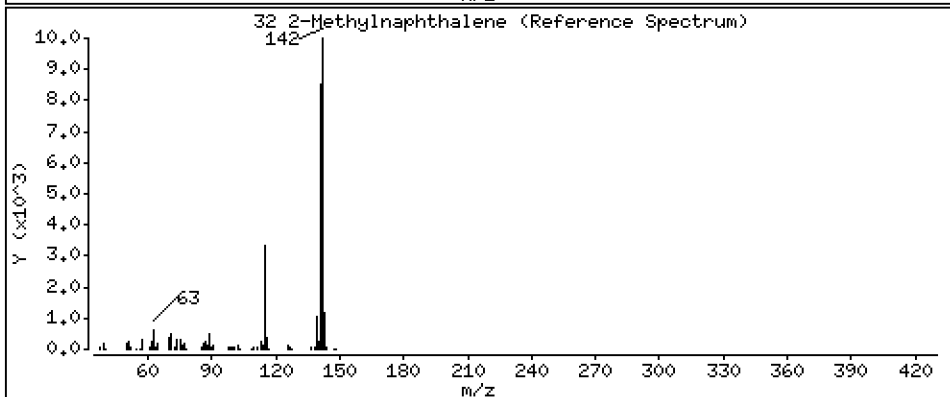
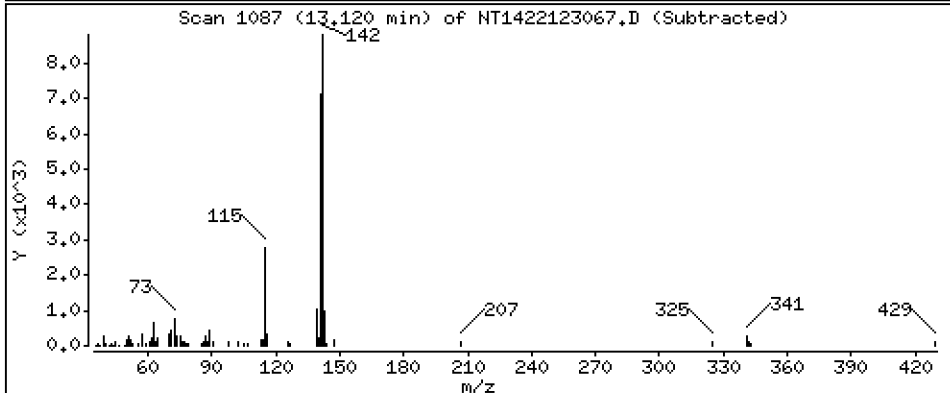
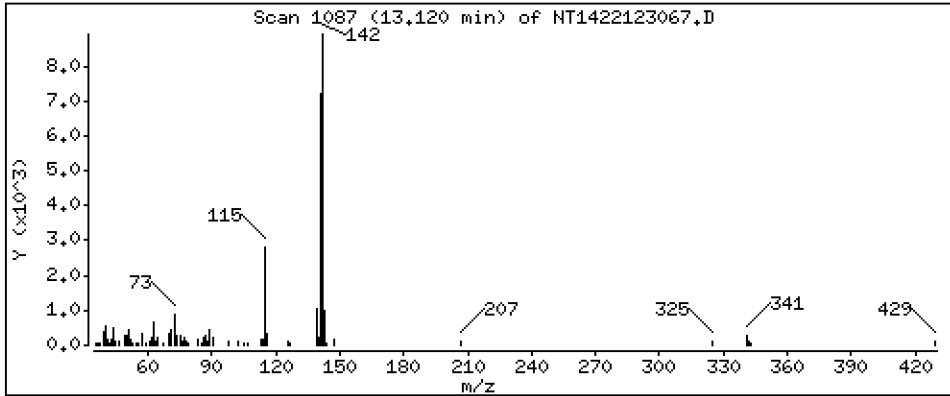
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2270 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

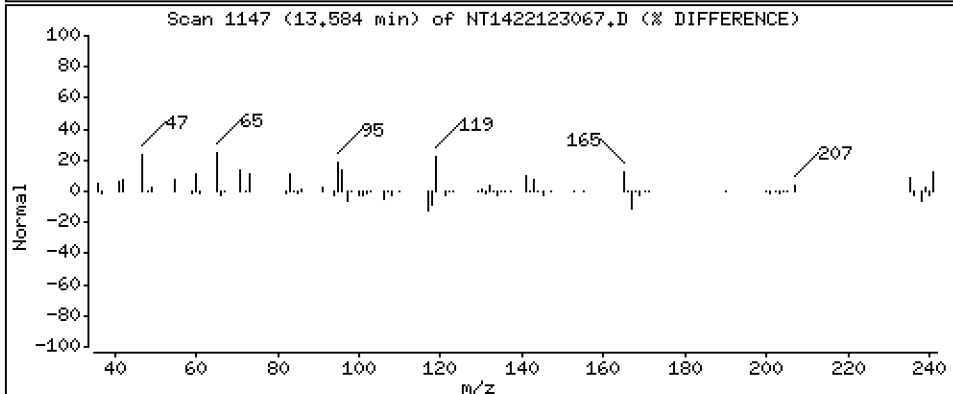
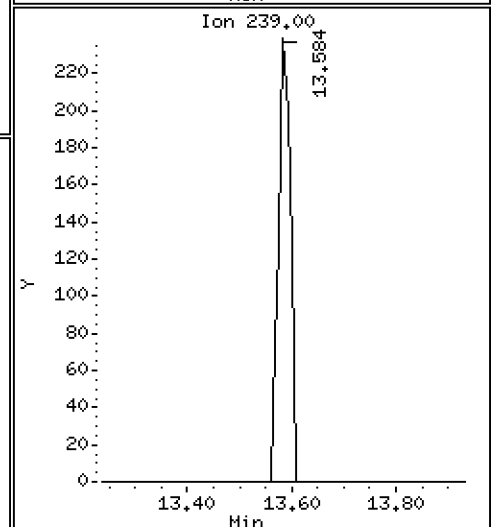
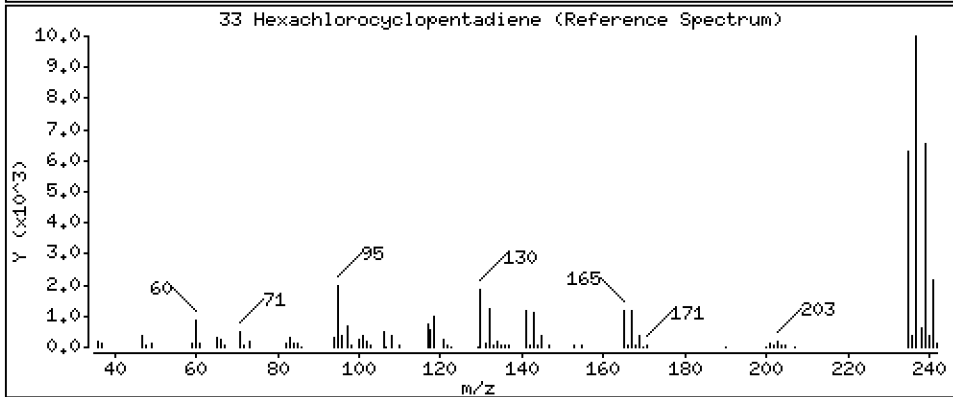
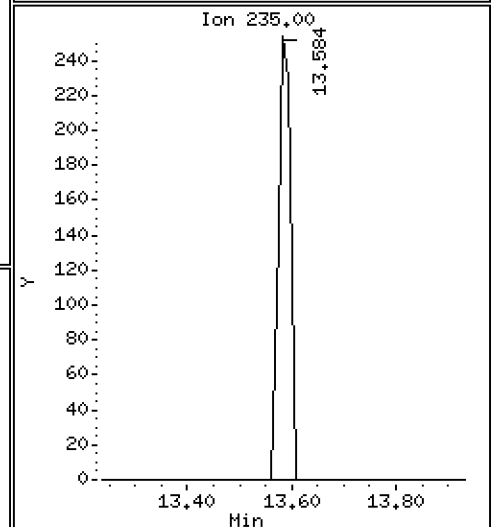
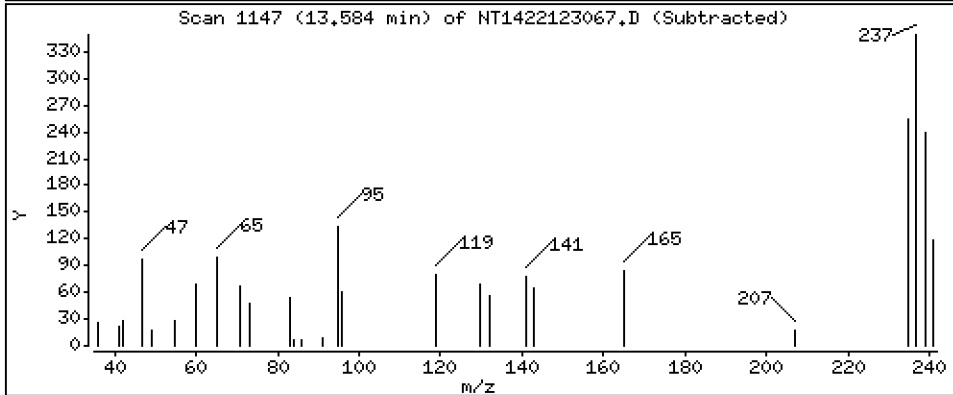
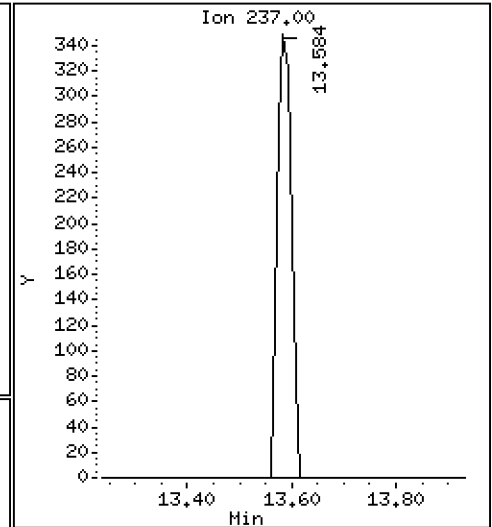
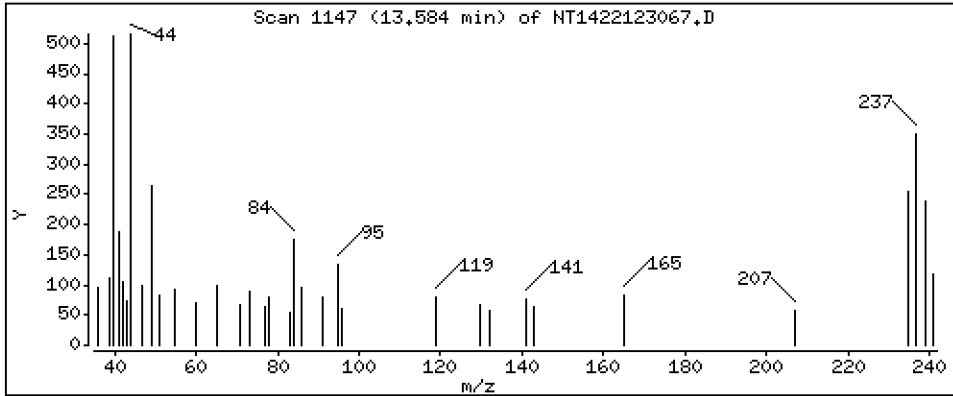
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,04042 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

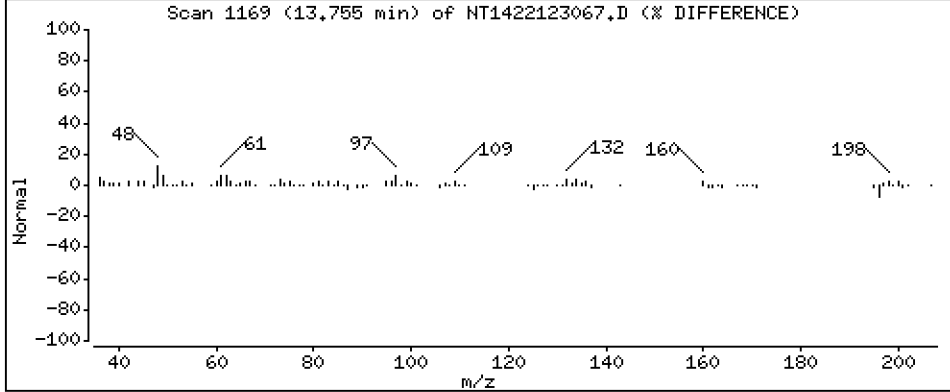
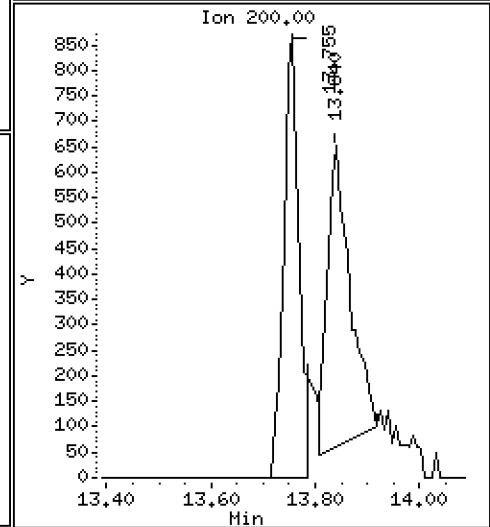
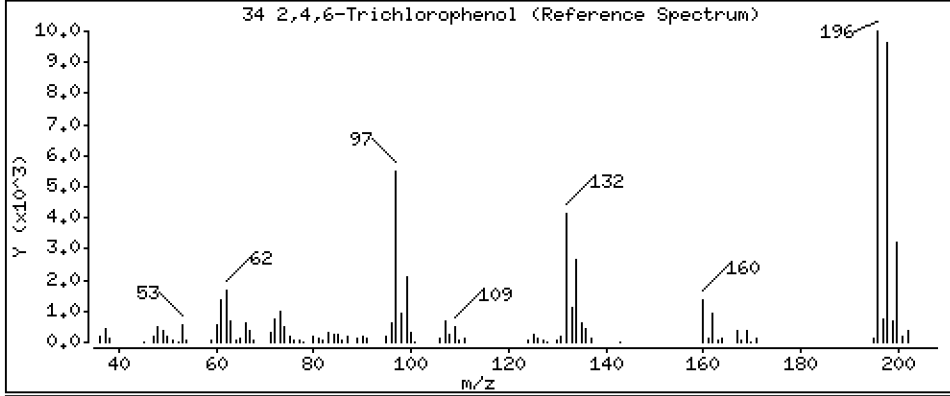
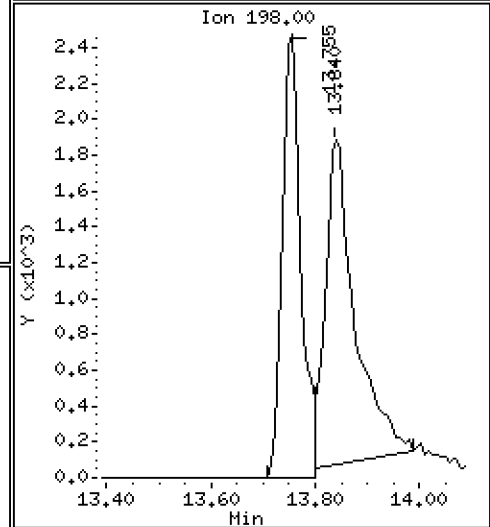
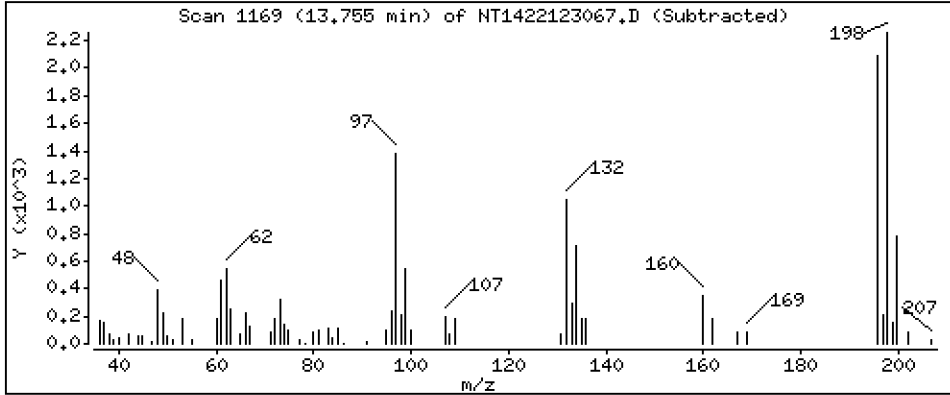
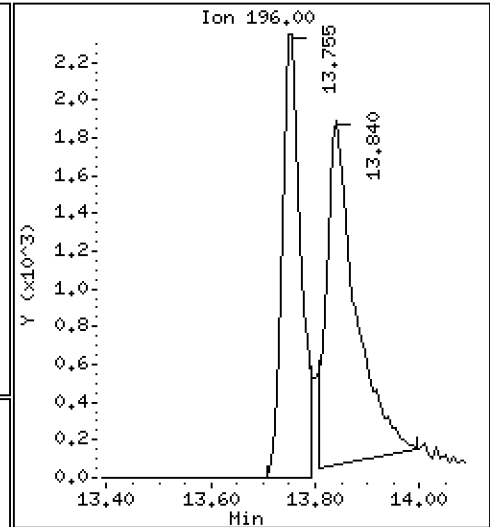
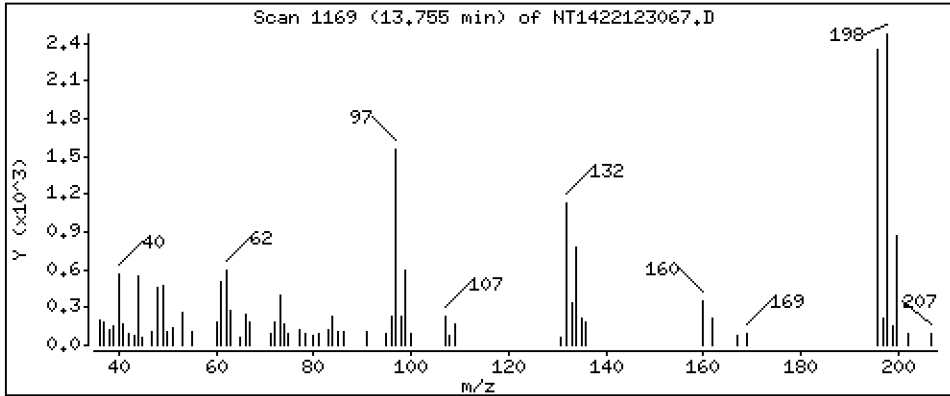
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3442 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

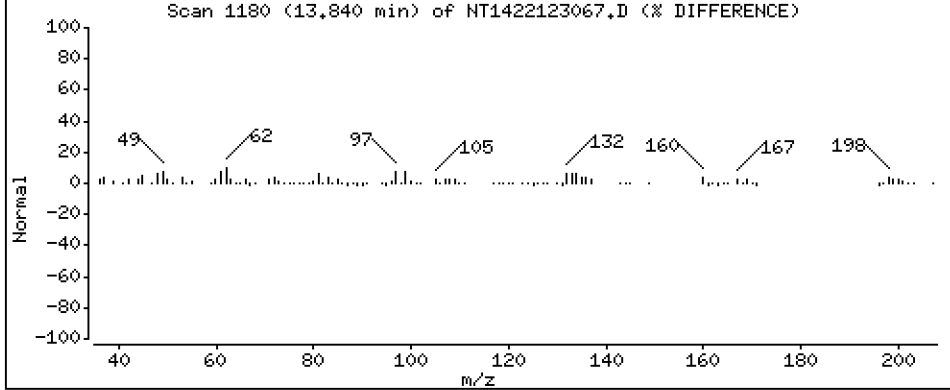
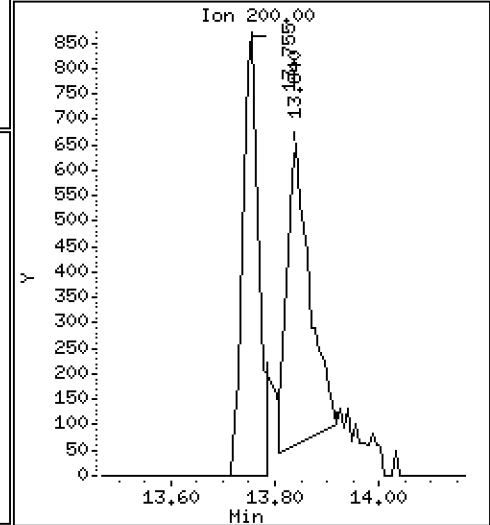
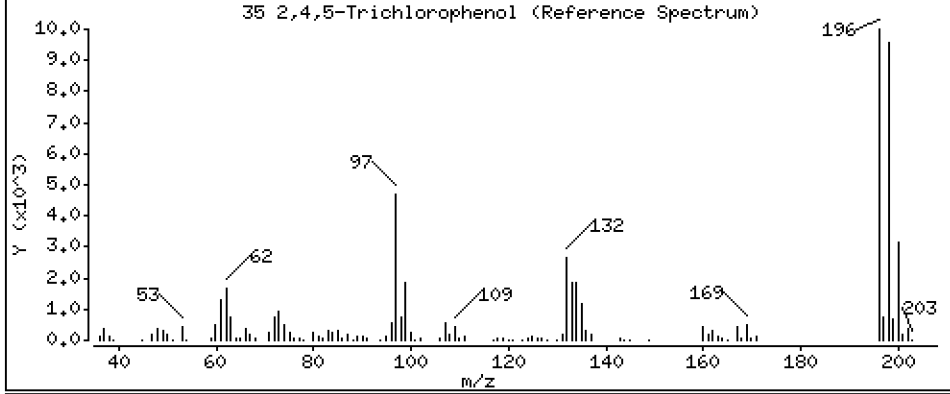
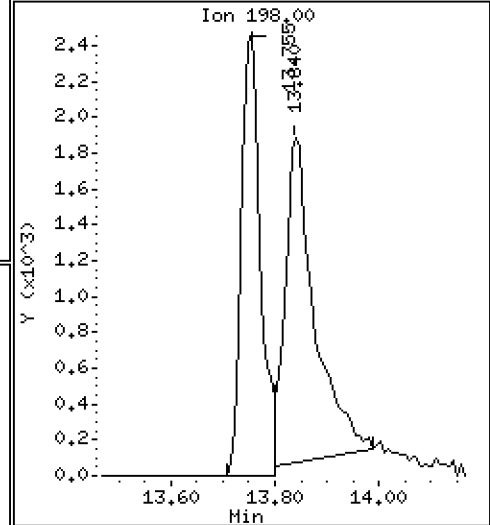
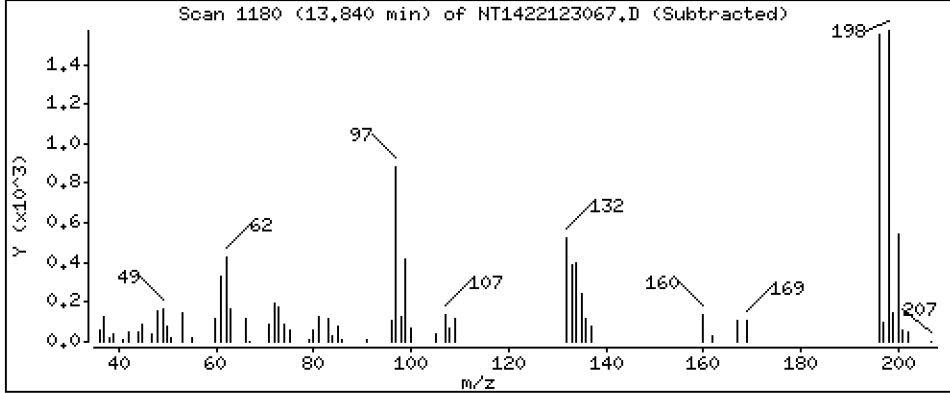
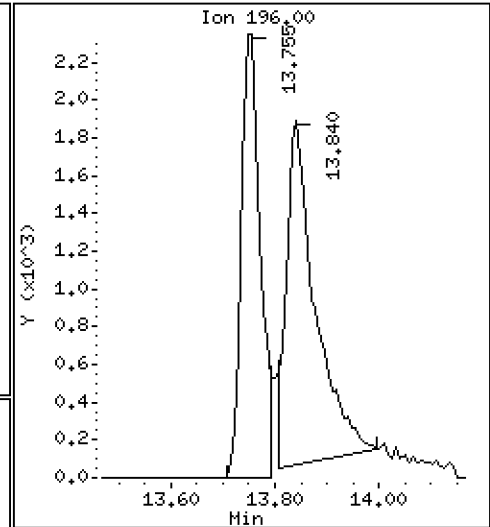
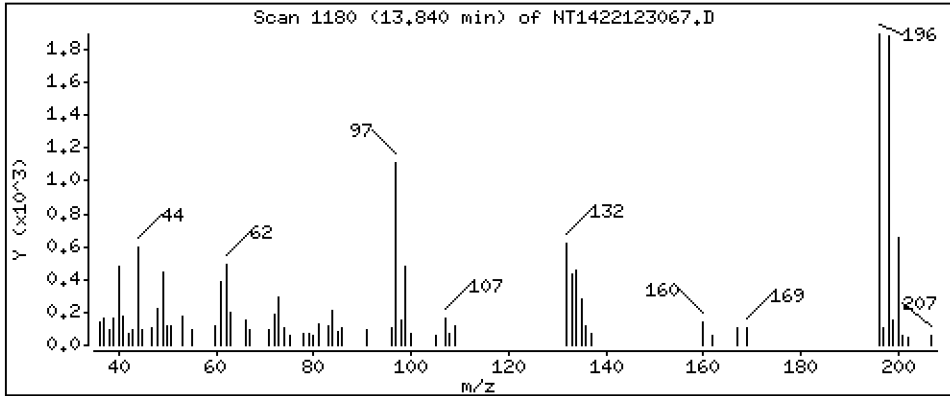
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.3604 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

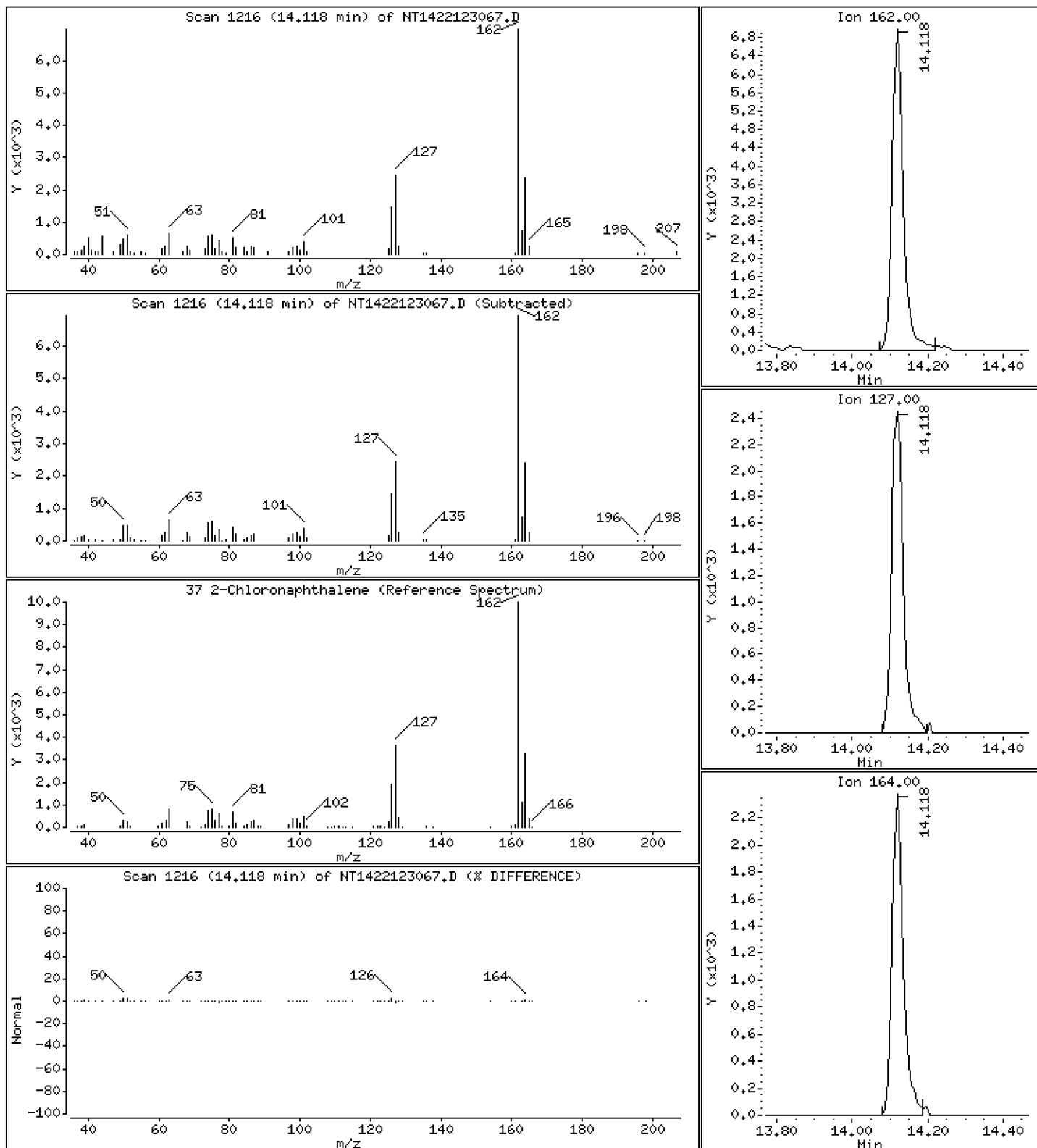
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.2346 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

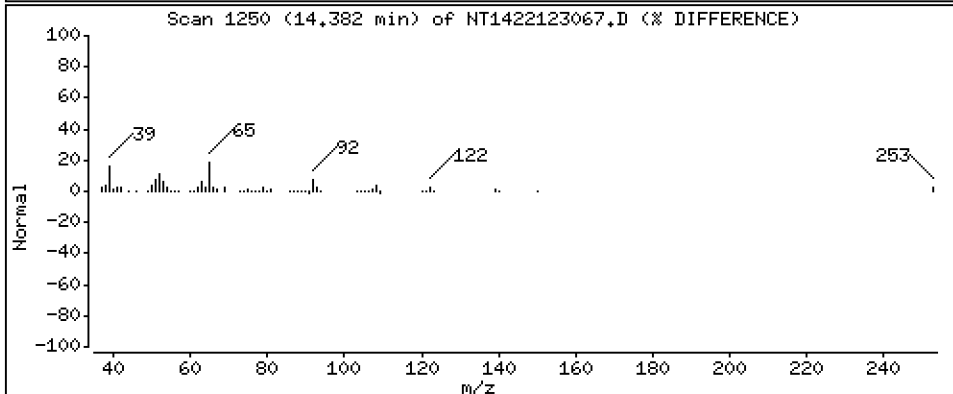
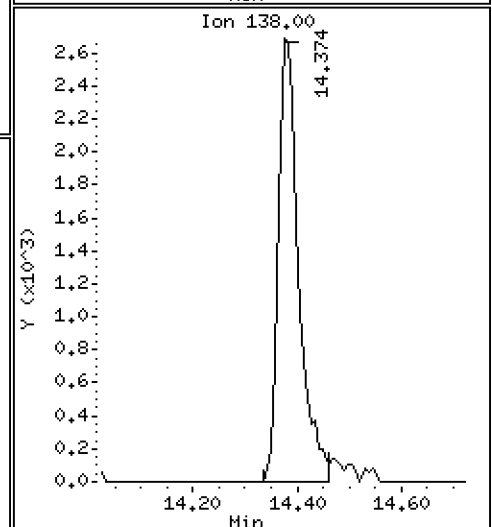
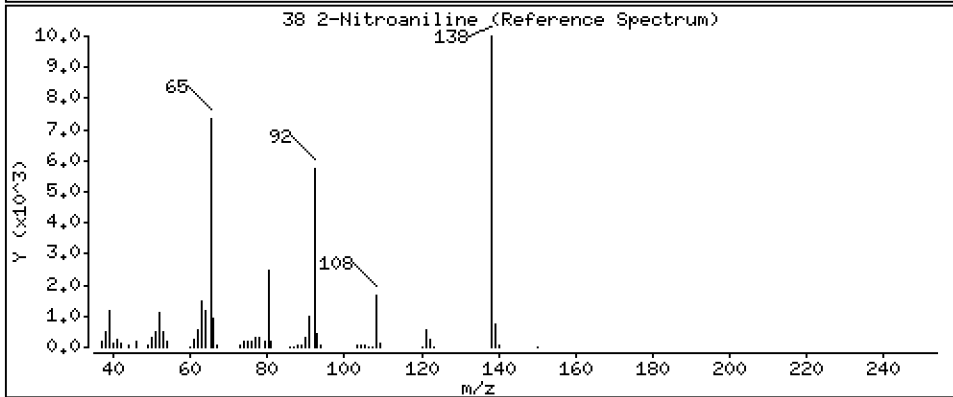
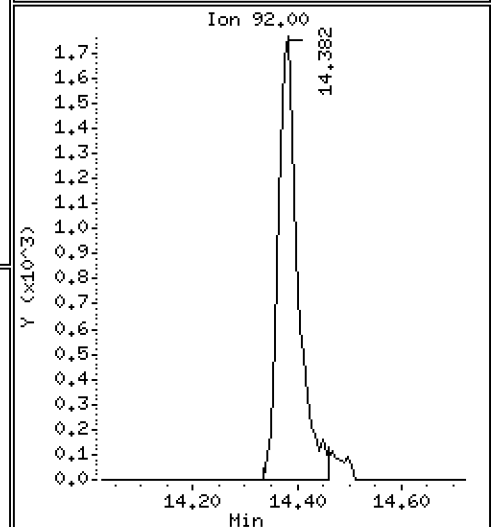
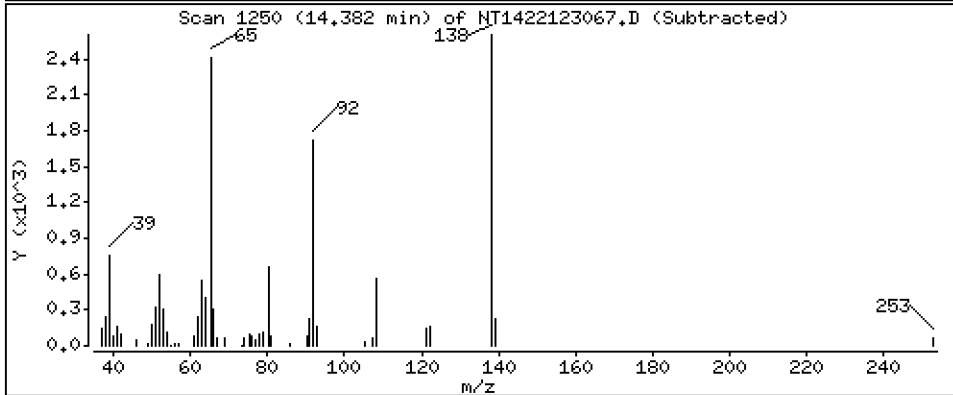
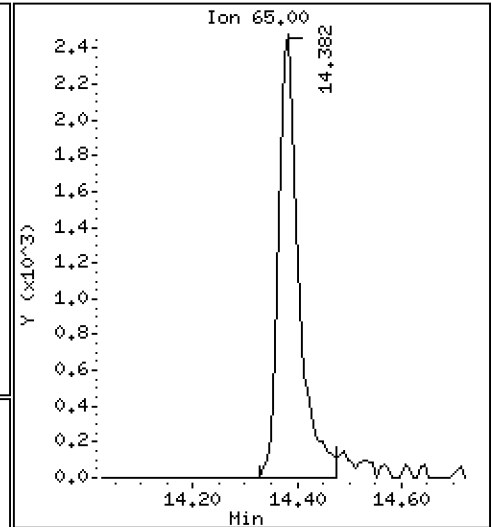
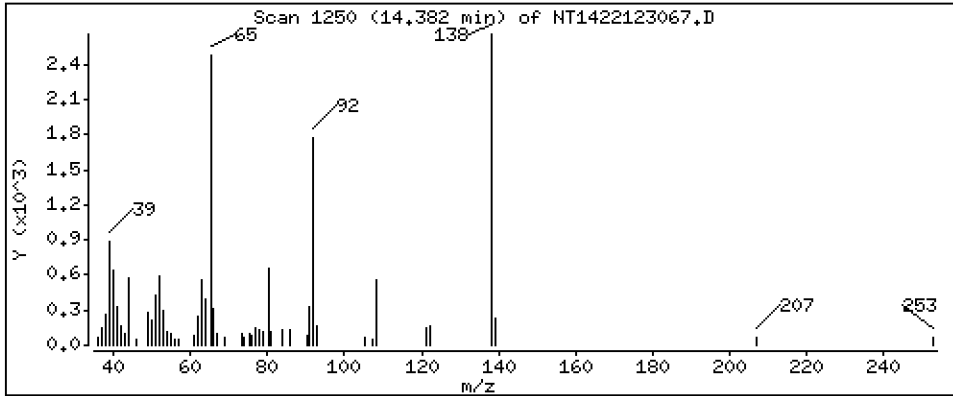
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,4296 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

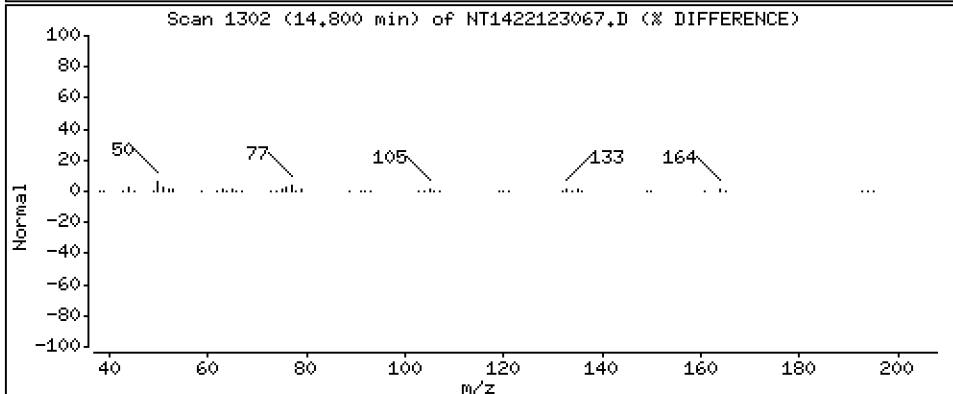
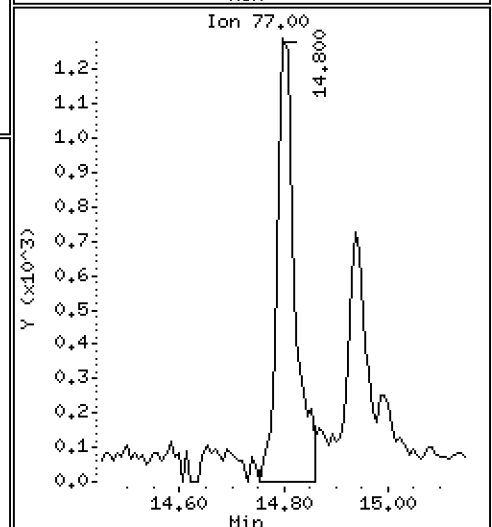
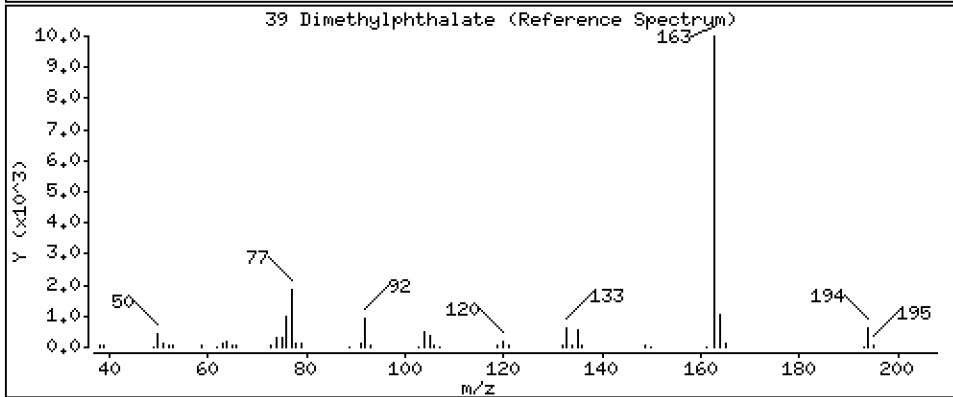
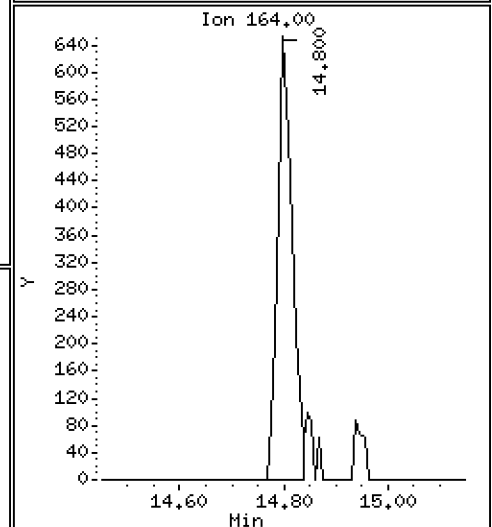
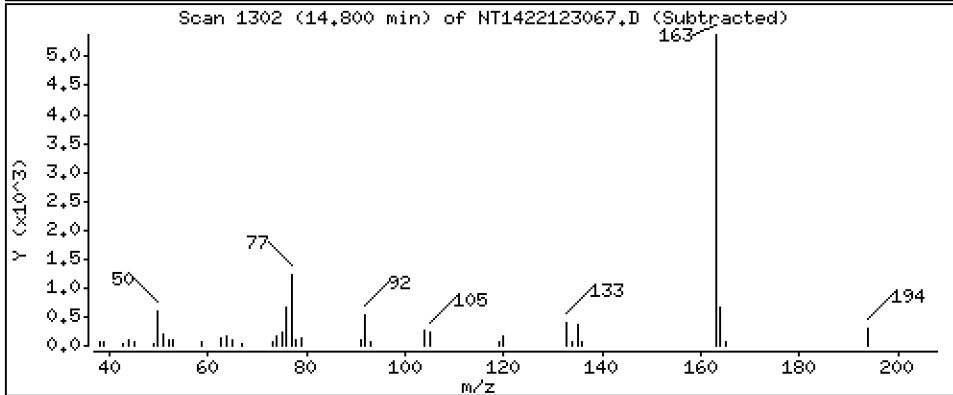
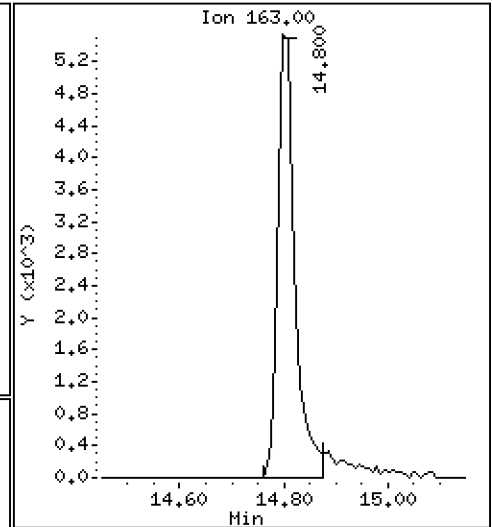
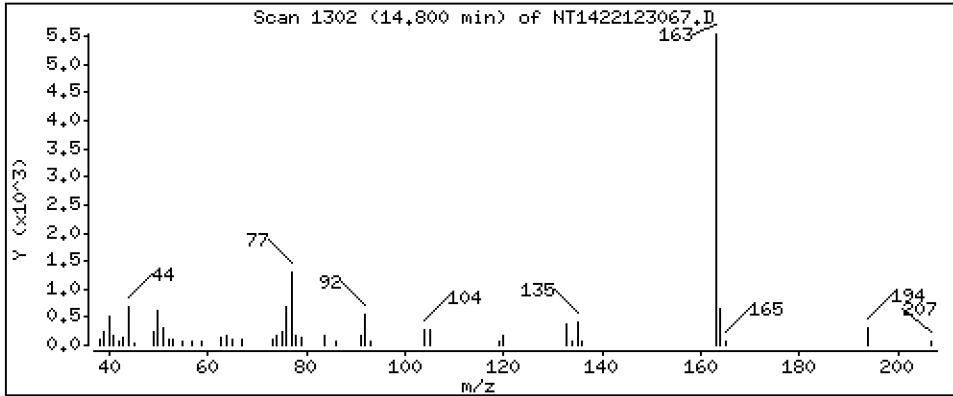
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2138 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

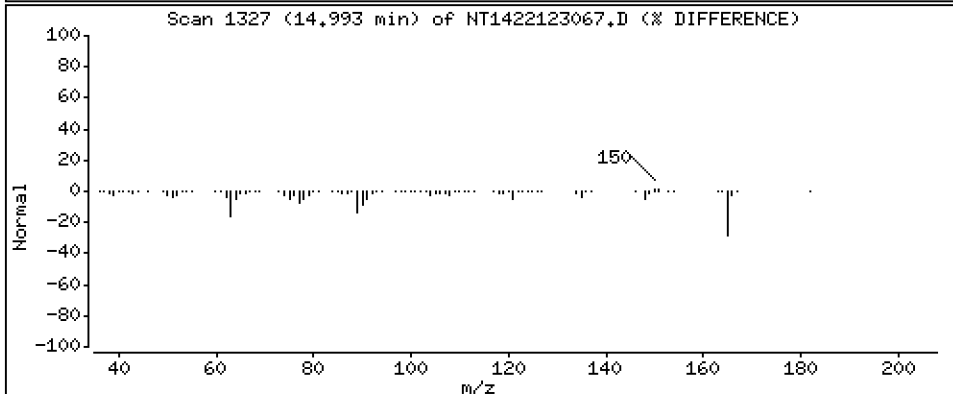
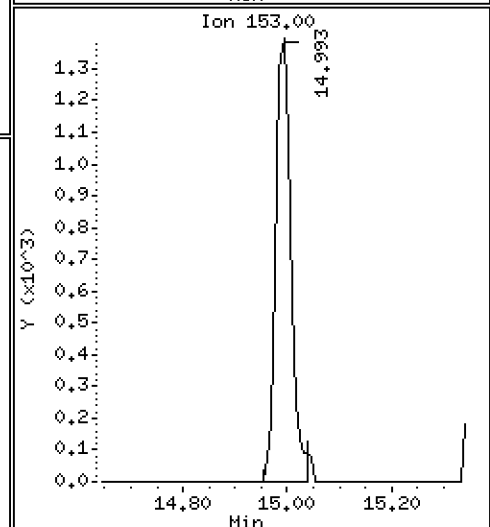
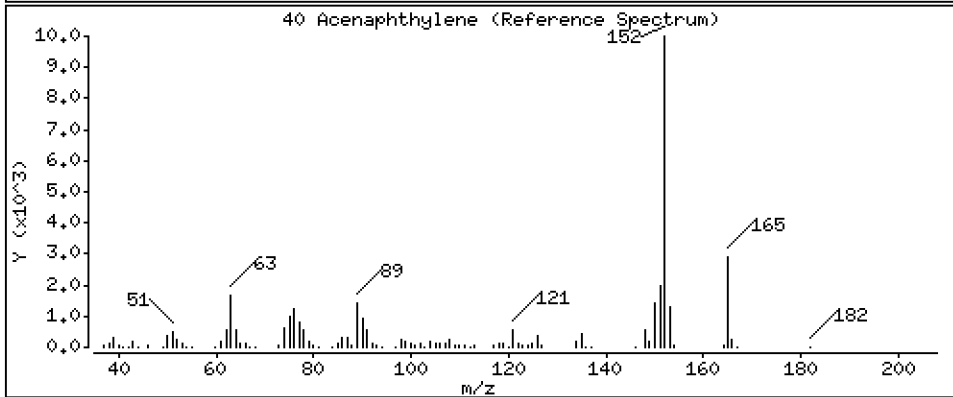
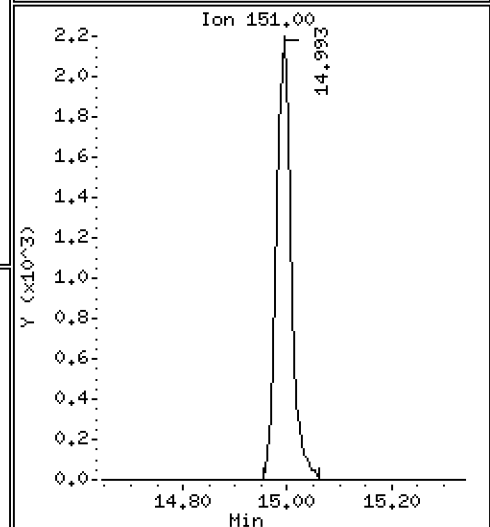
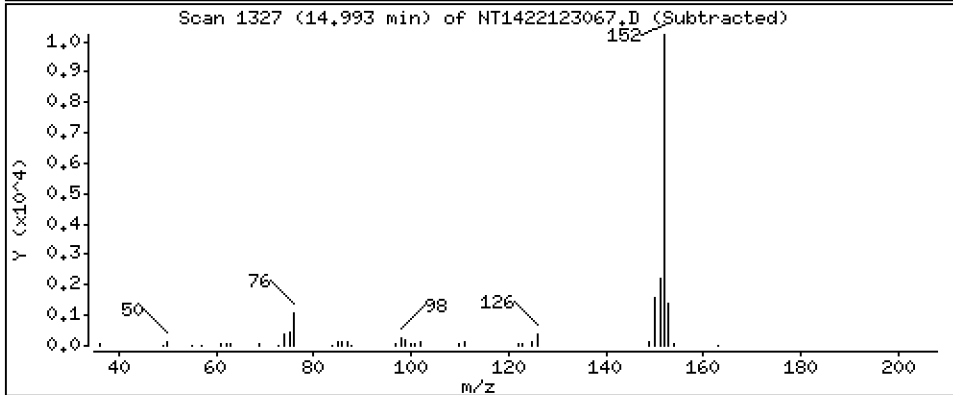
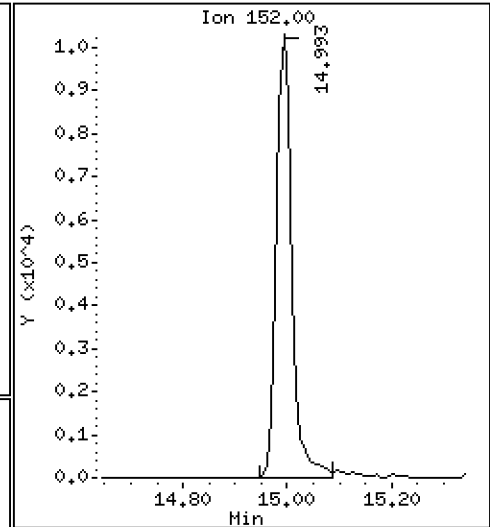
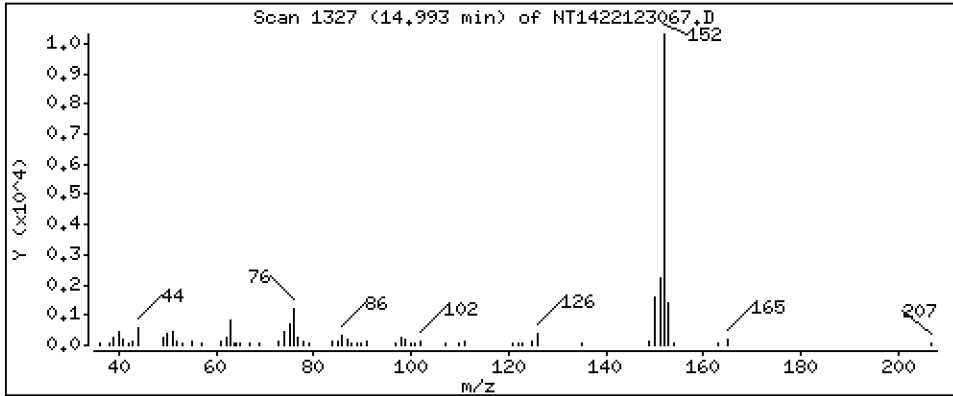
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2291 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

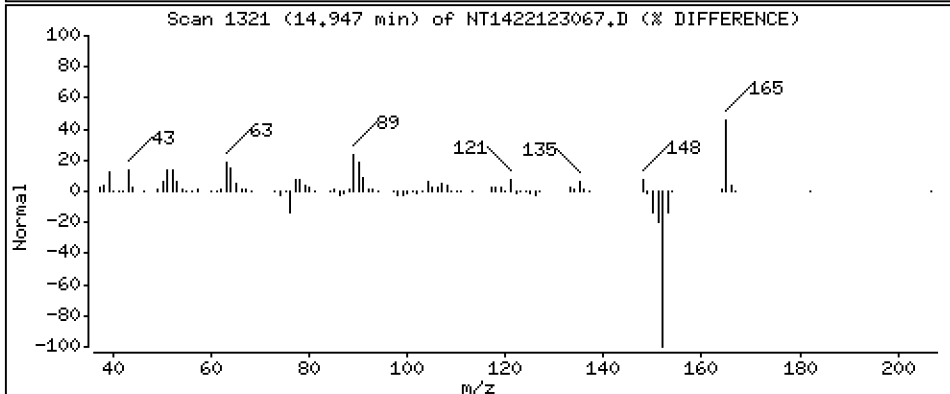
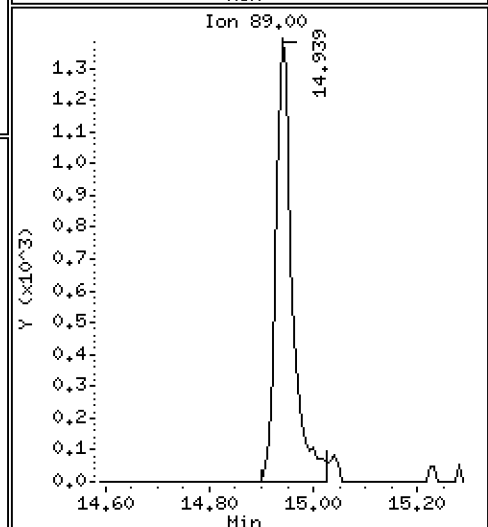
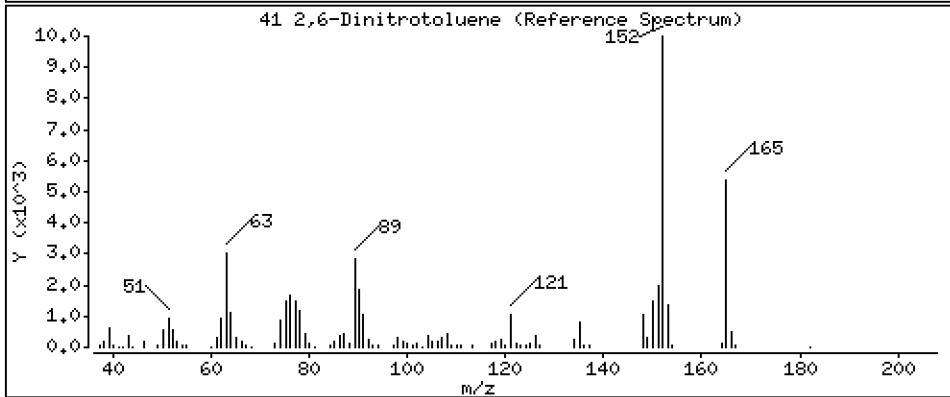
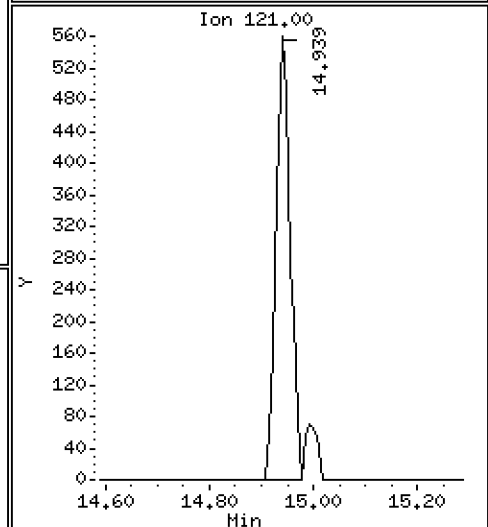
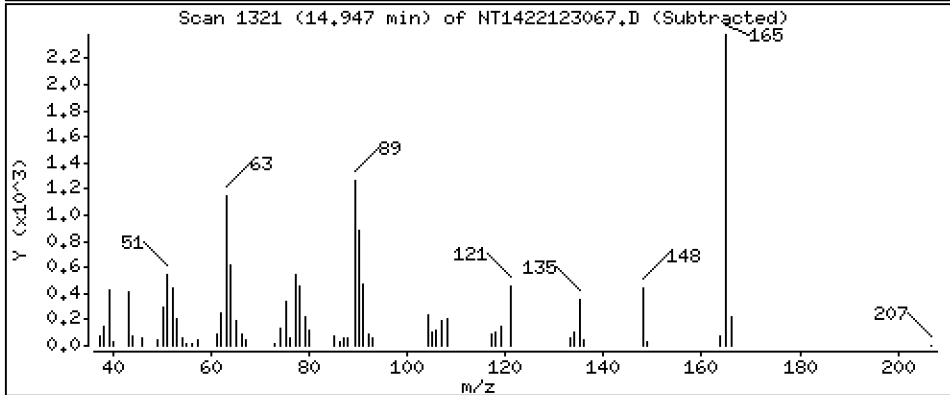
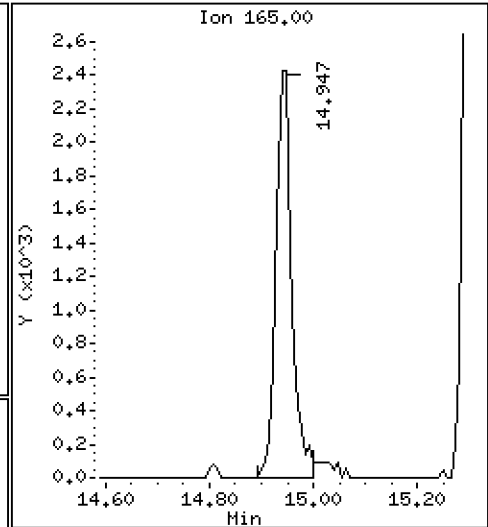
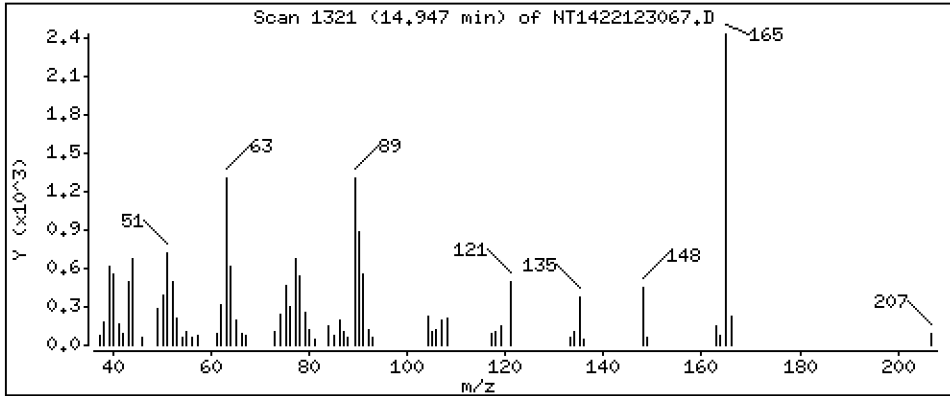
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3820 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

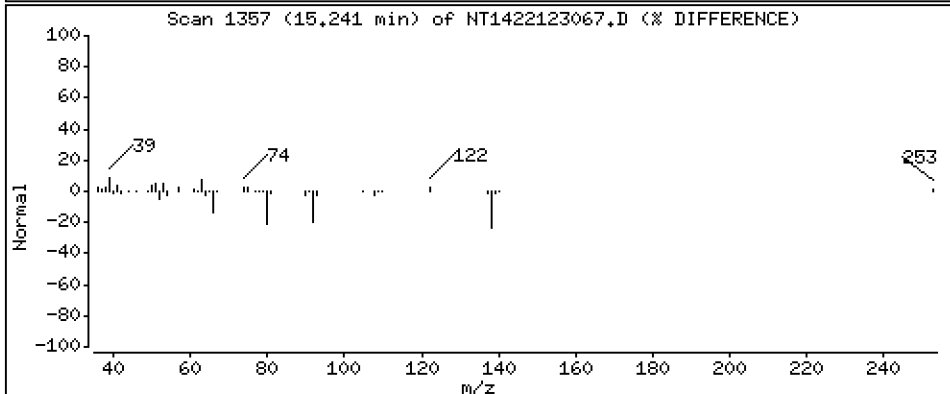
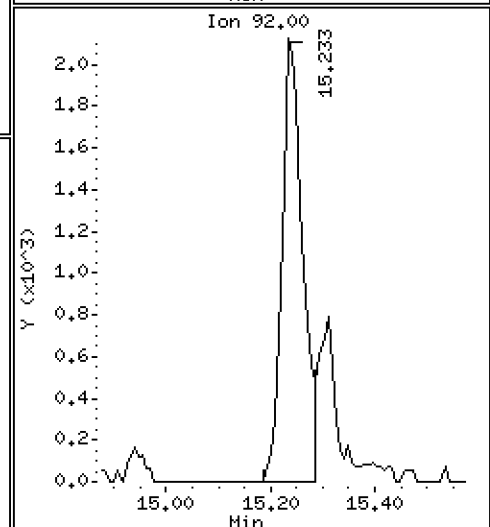
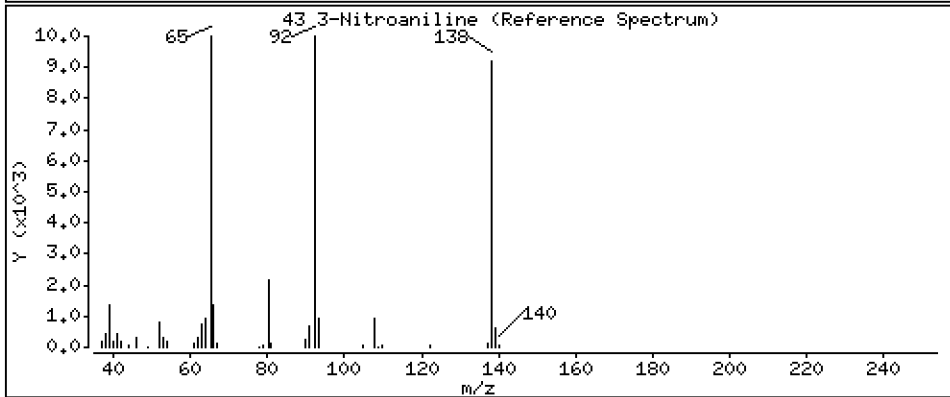
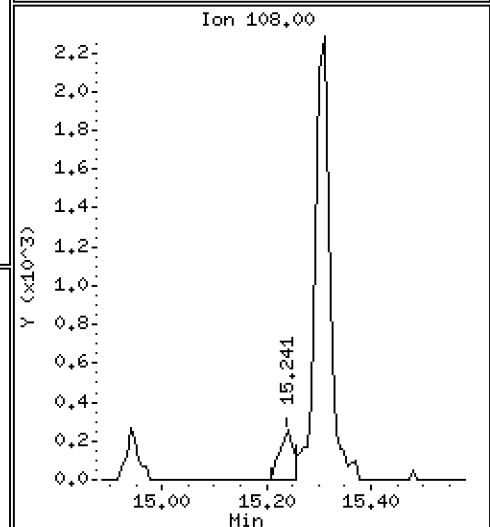
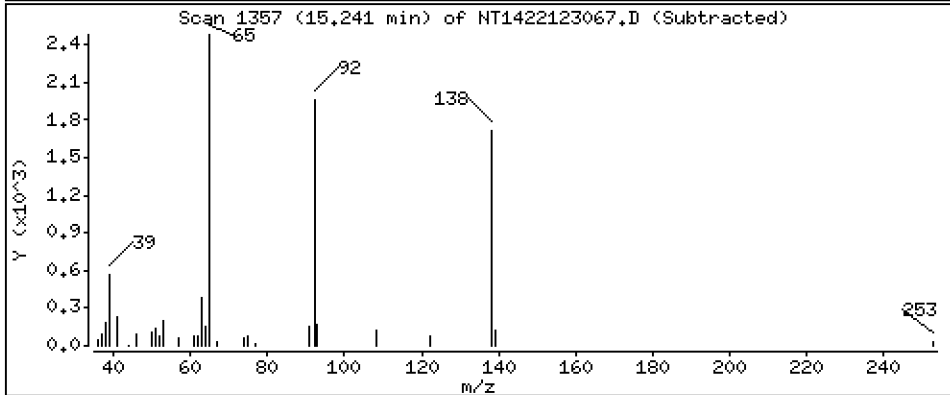
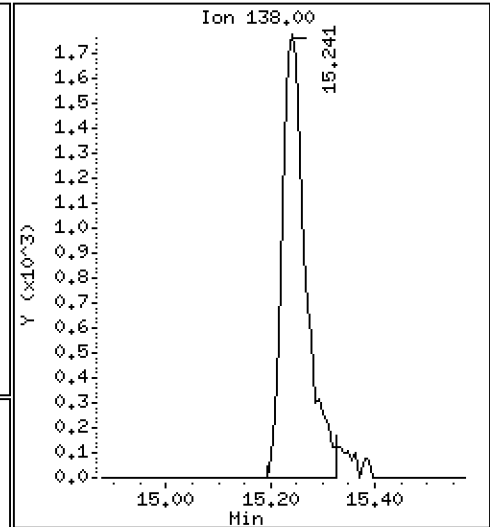
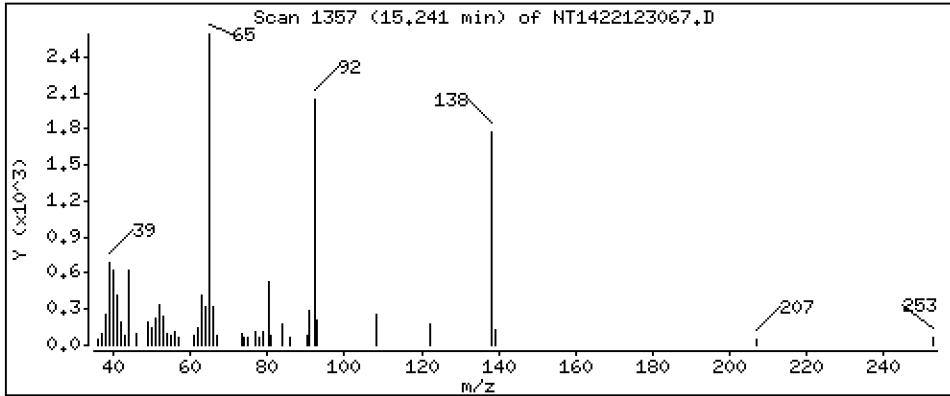
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3563 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

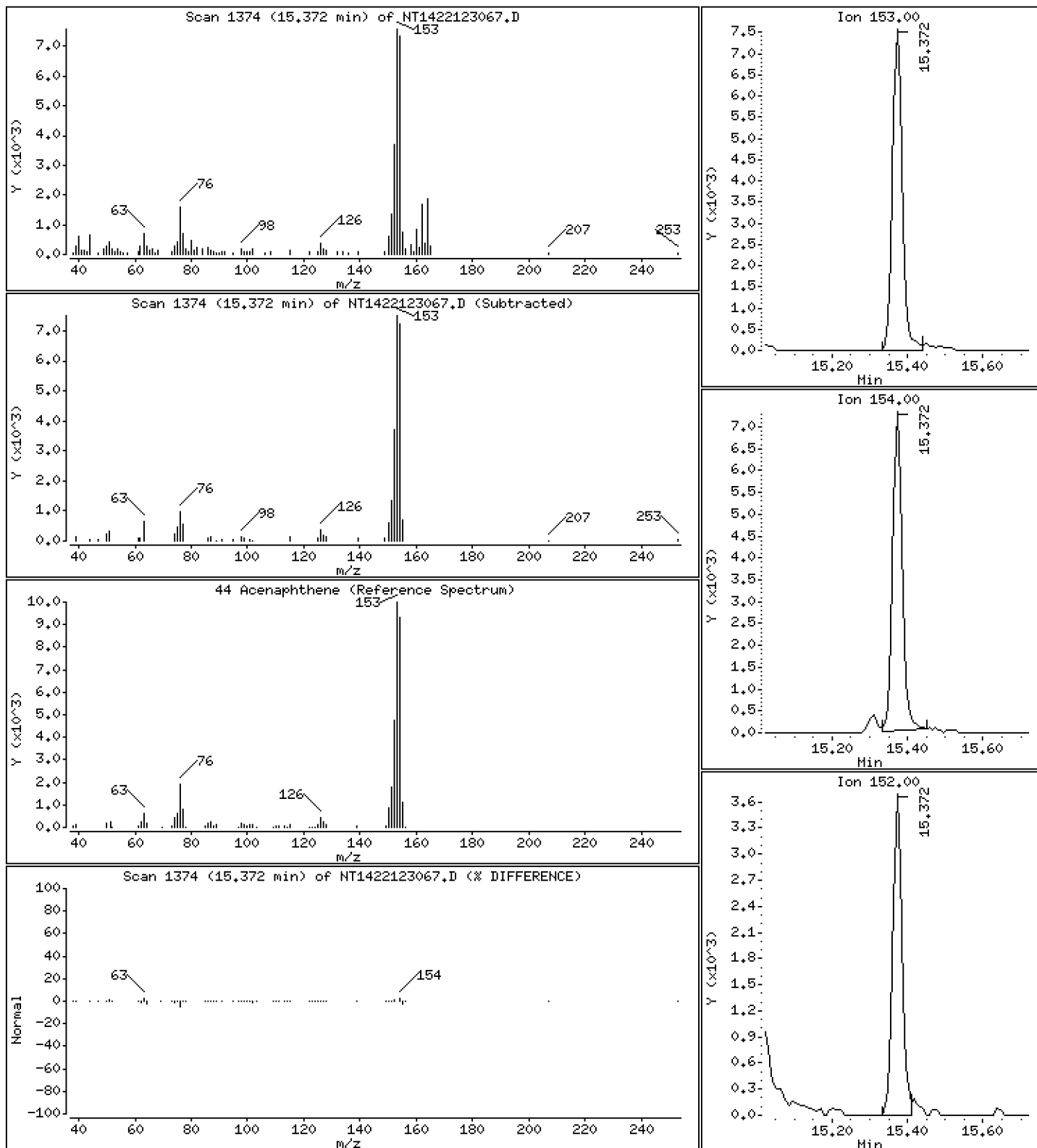
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2358 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

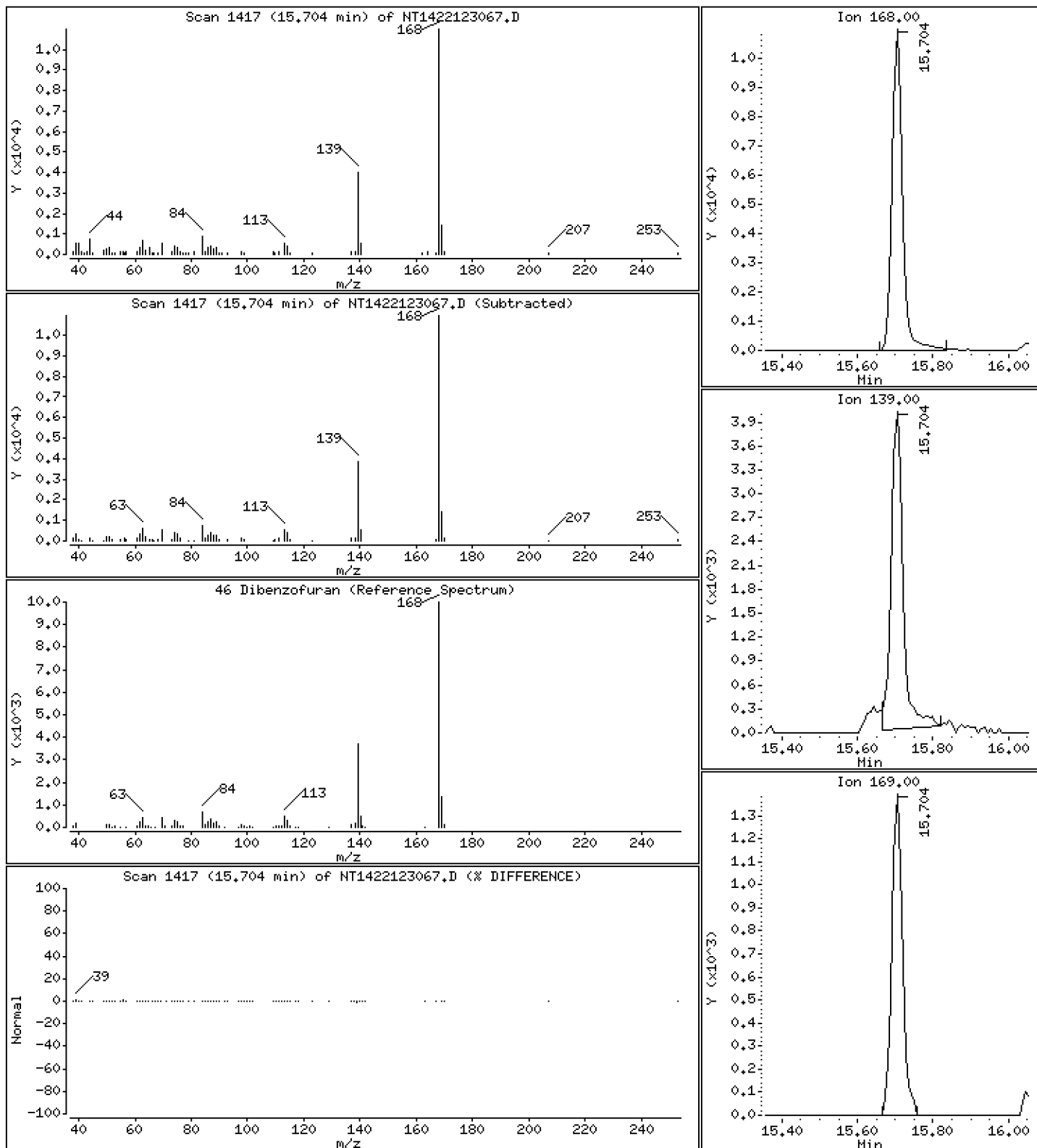
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2405 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

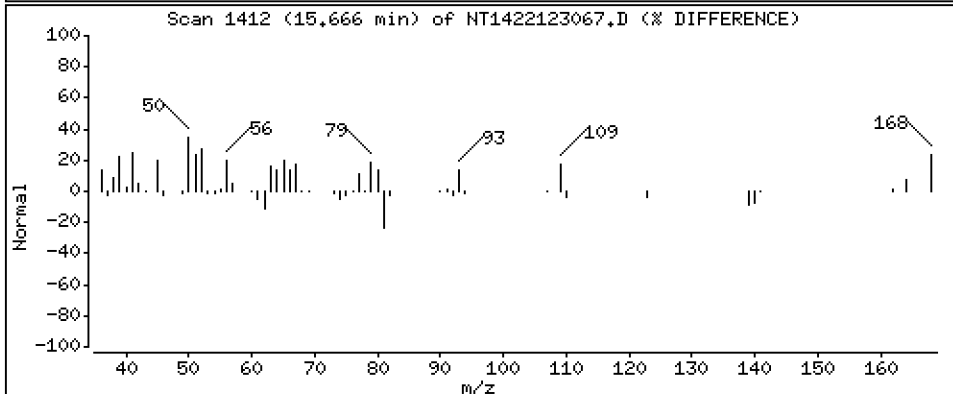
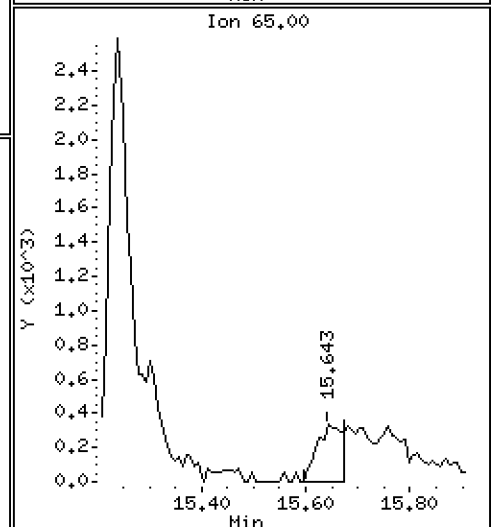
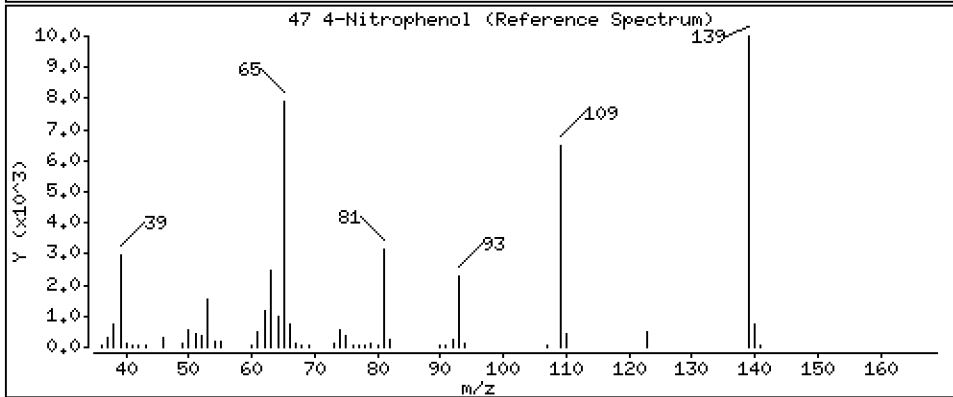
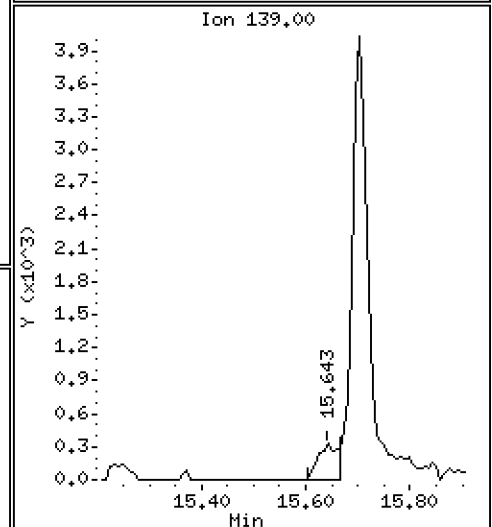
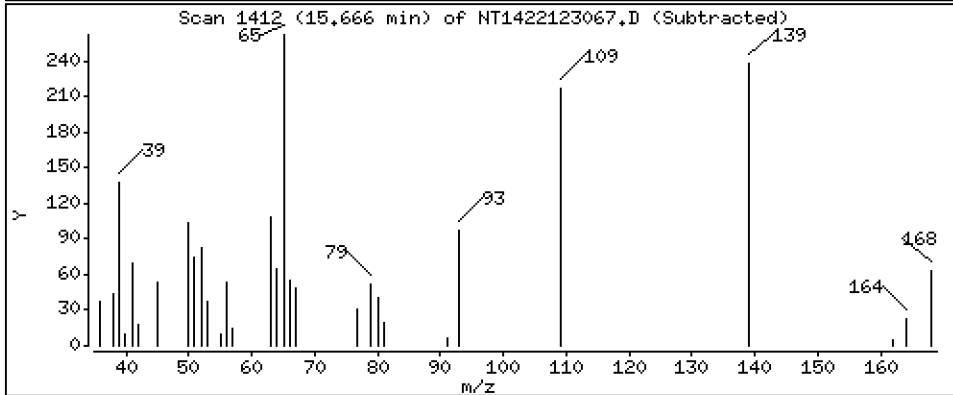
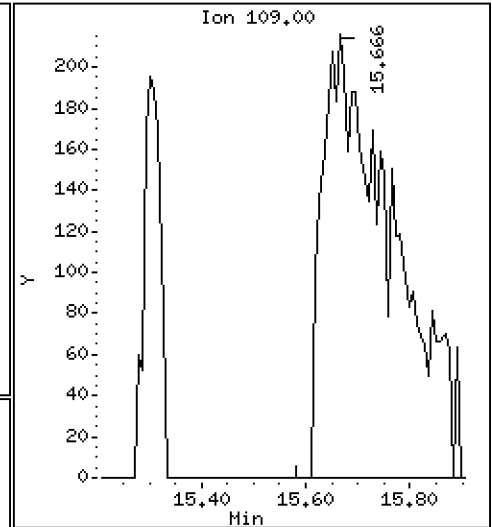
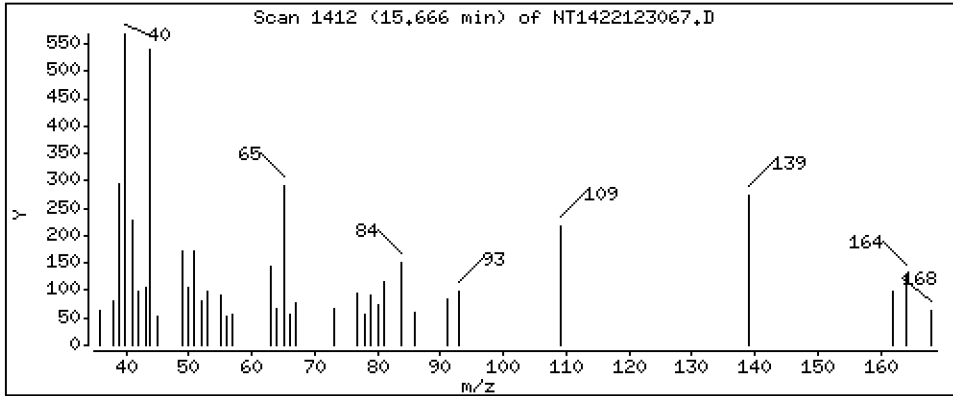
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,2680 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

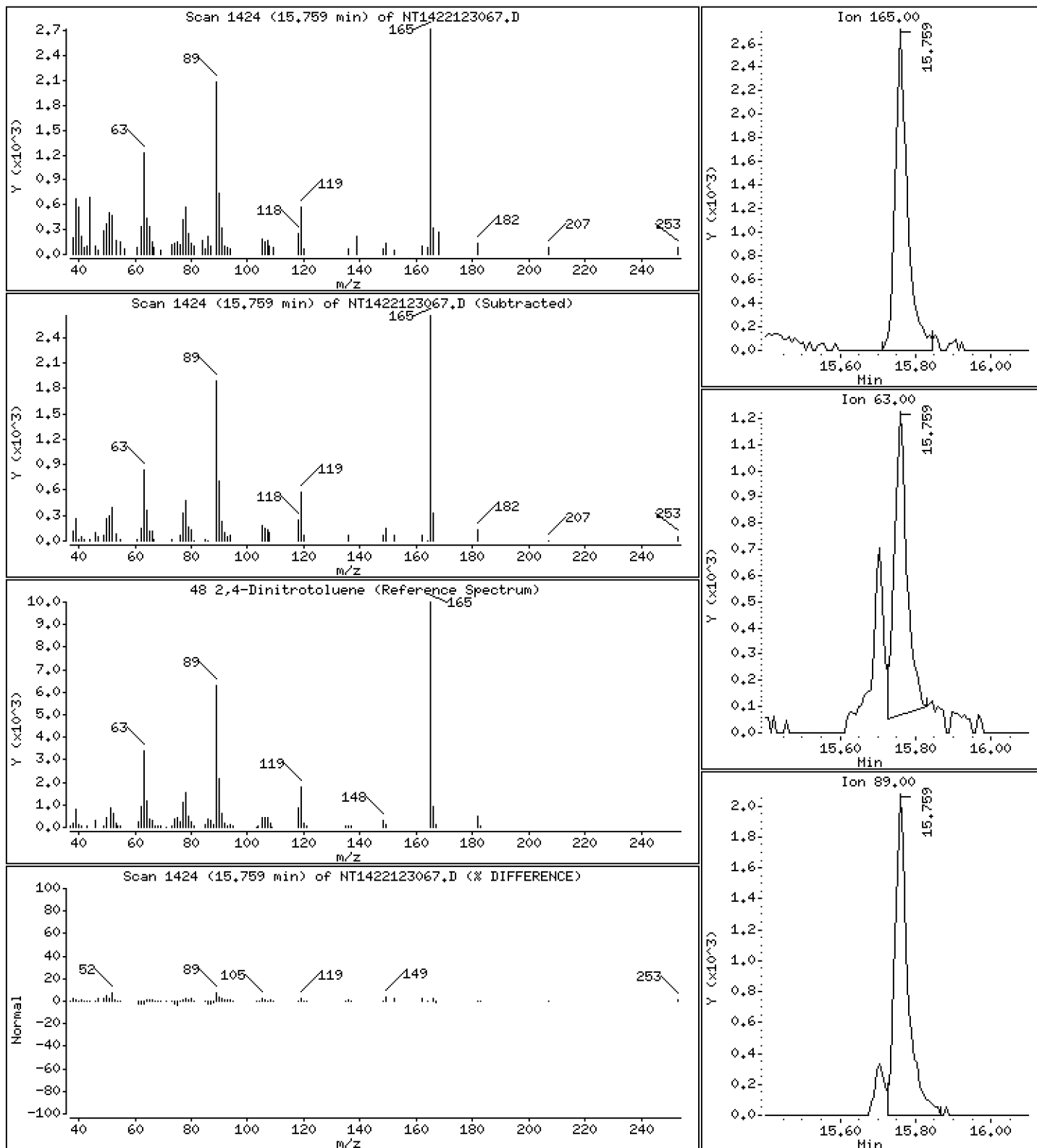
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.3389 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

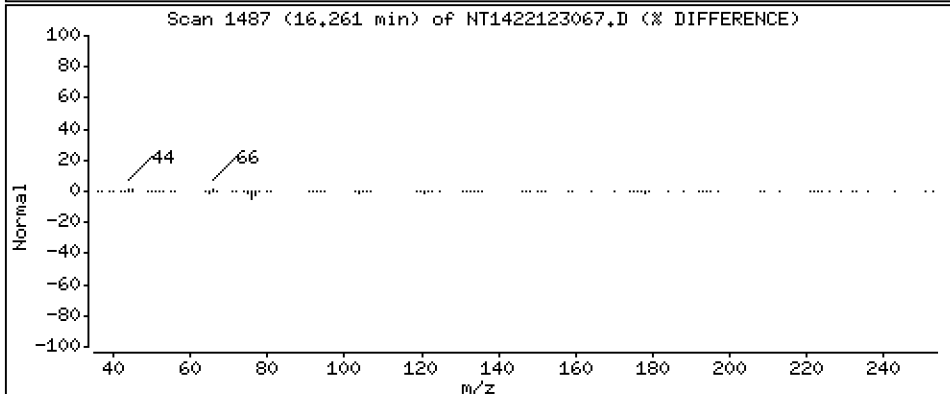
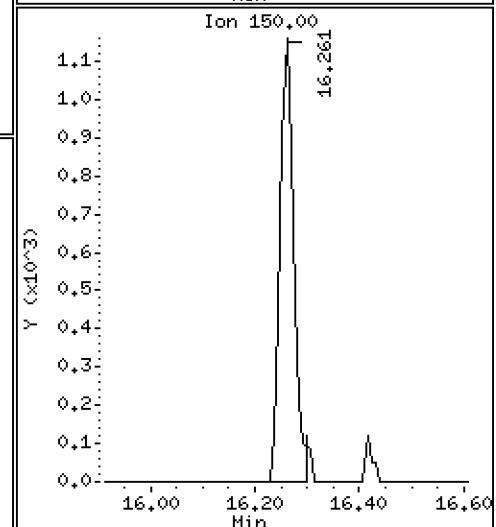
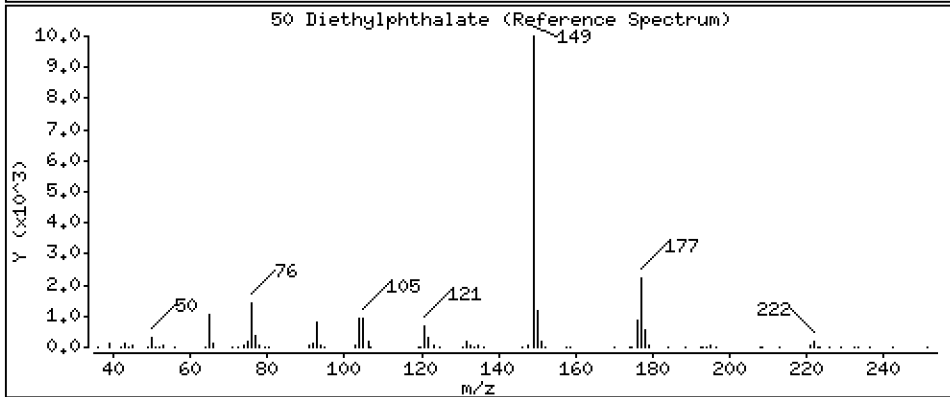
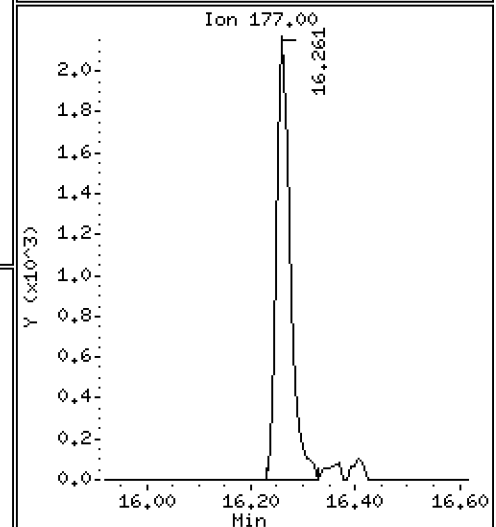
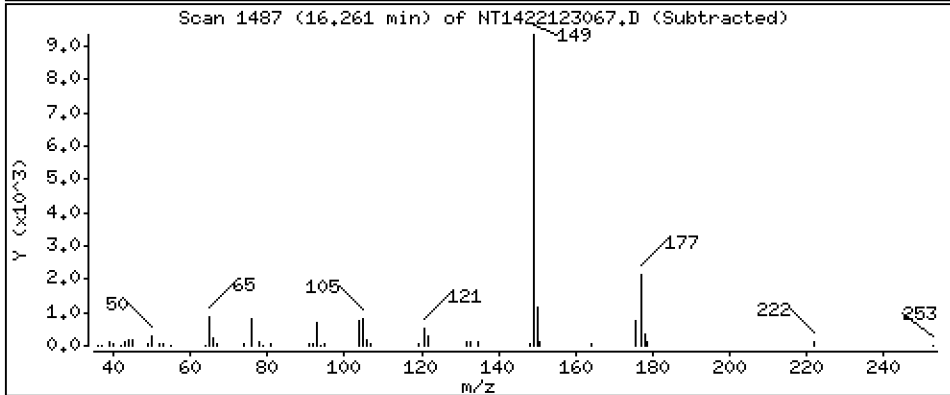
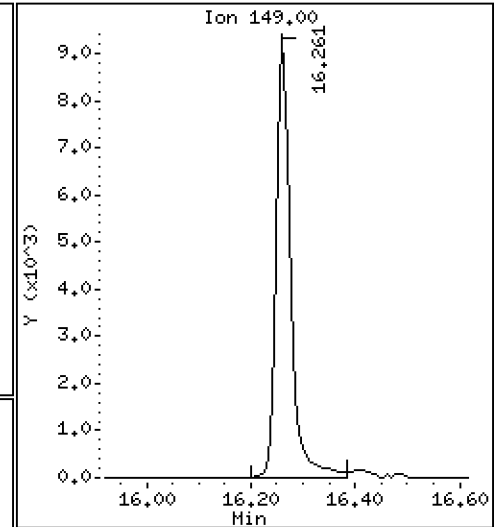
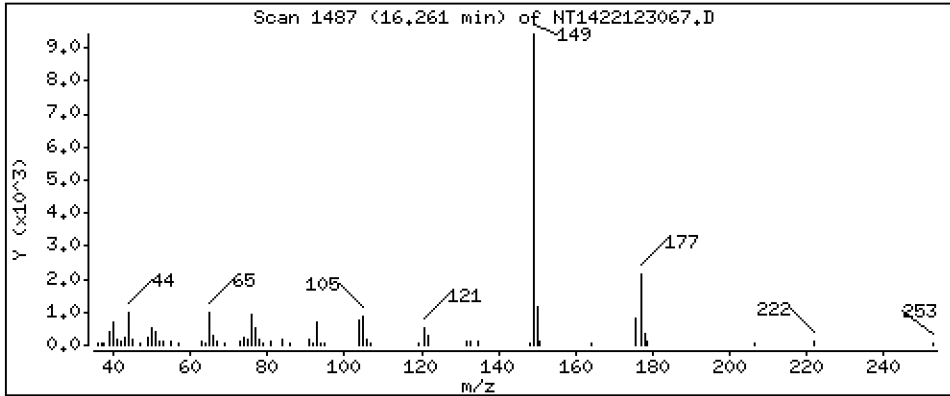
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2595 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

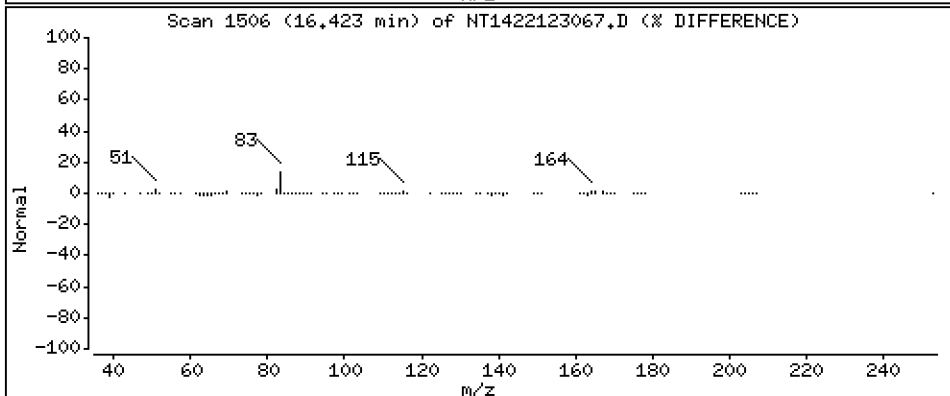
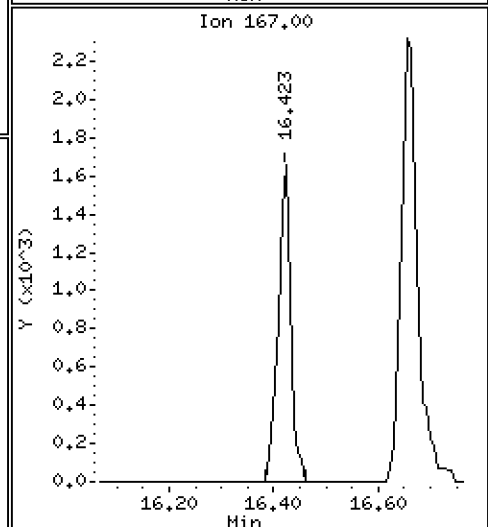
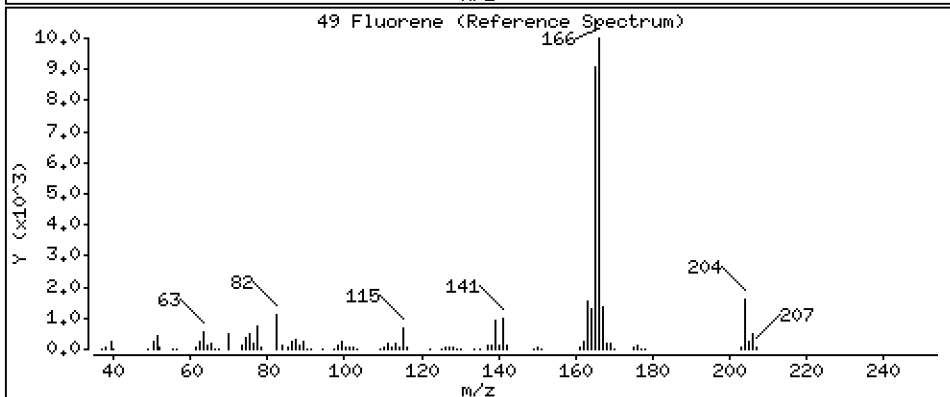
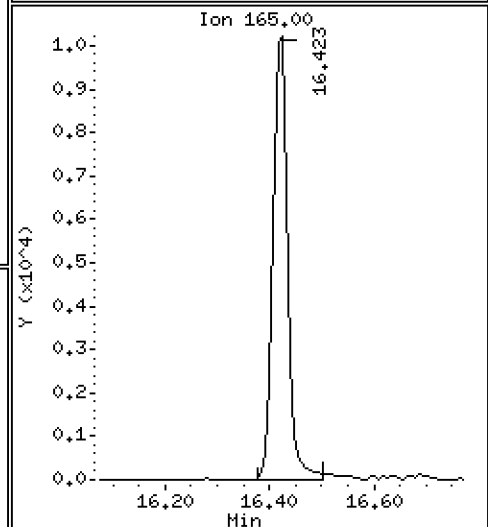
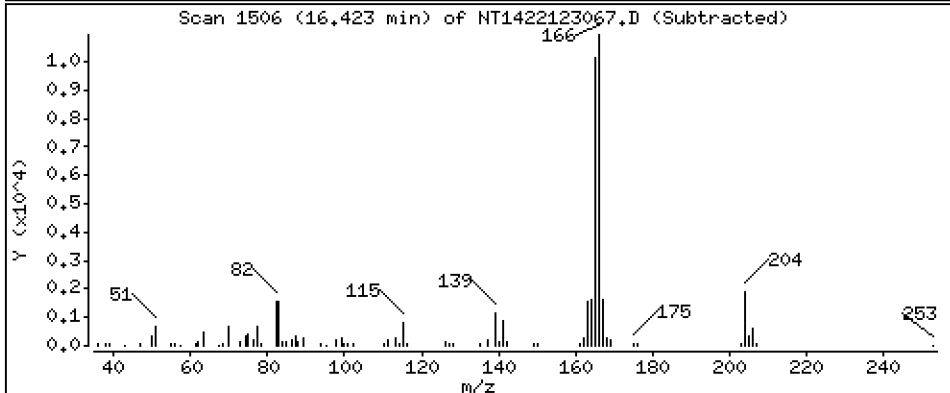
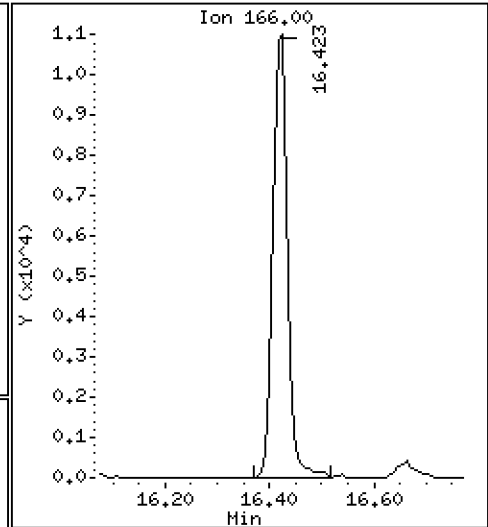
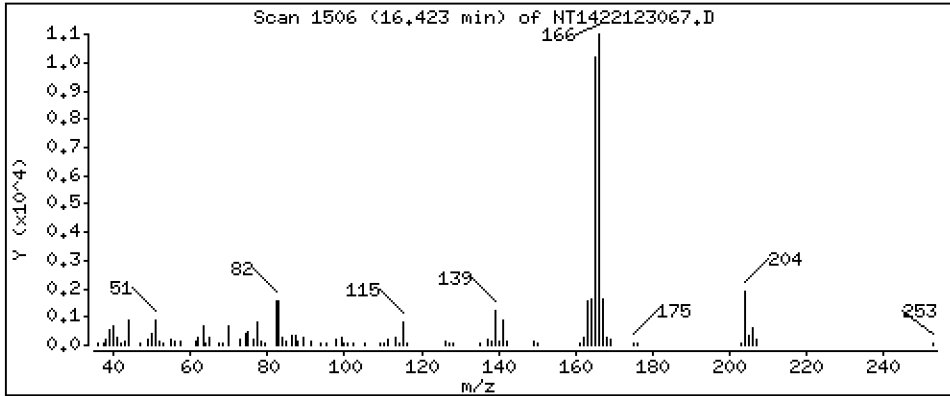
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2334 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

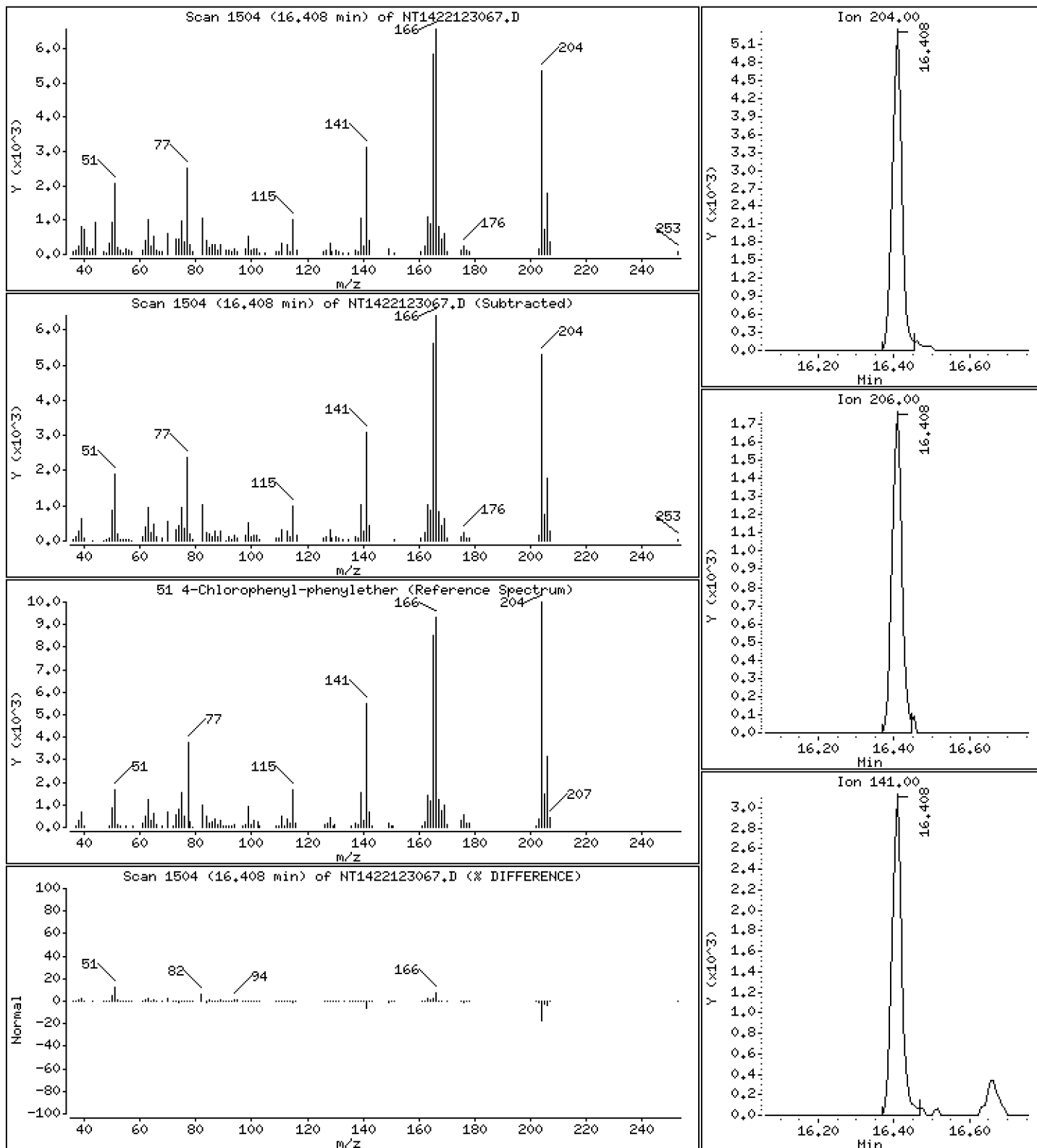
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2115 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

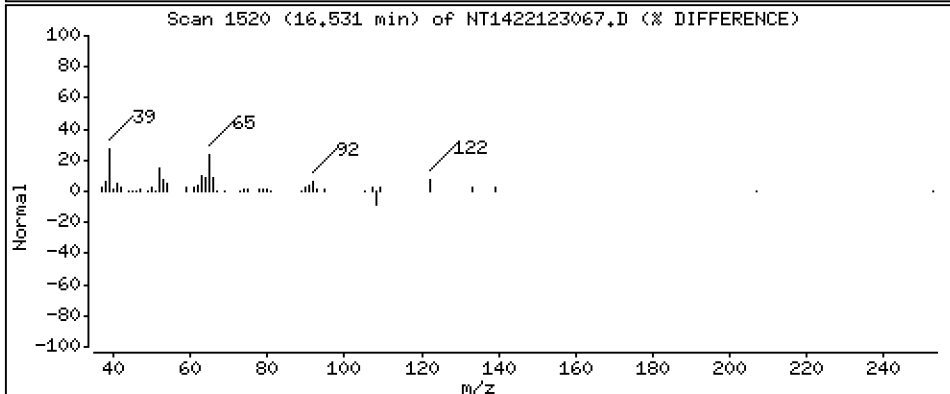
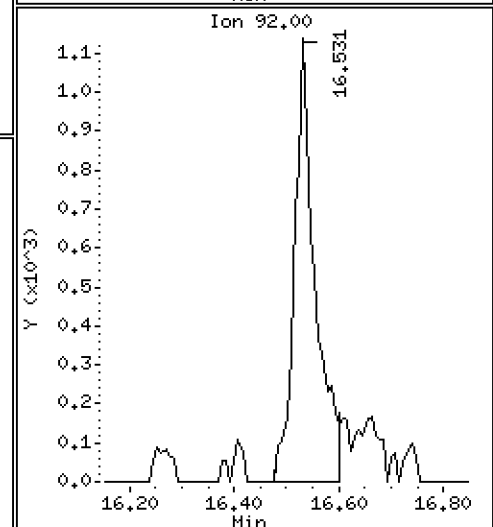
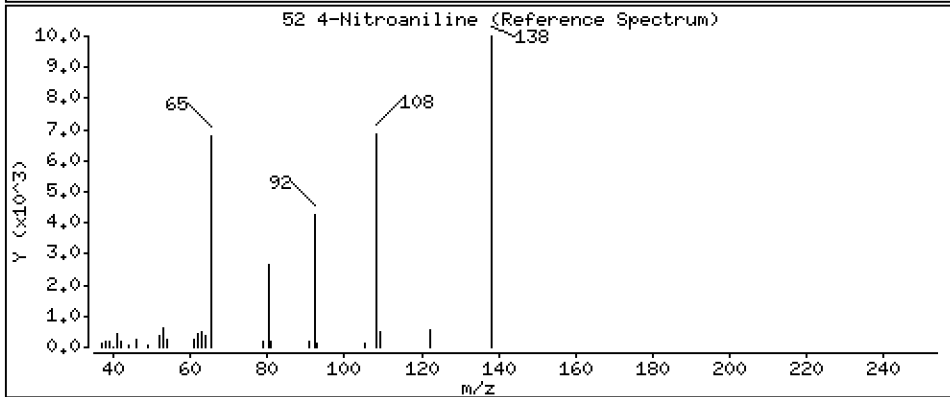
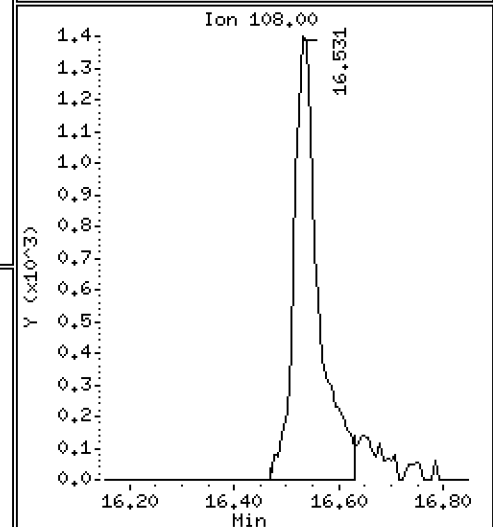
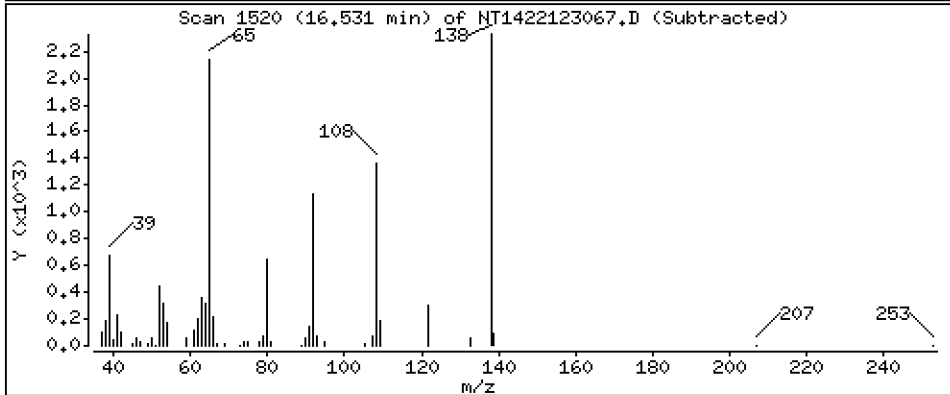
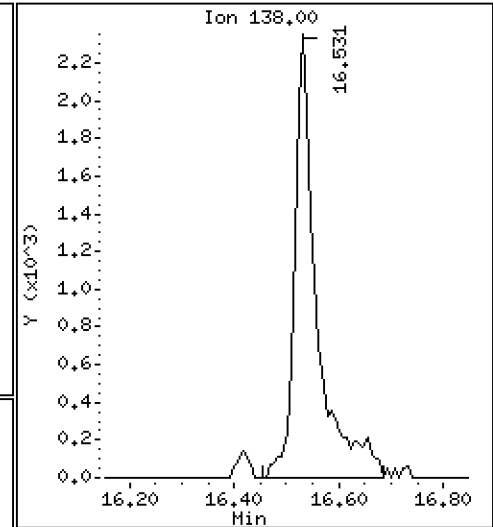
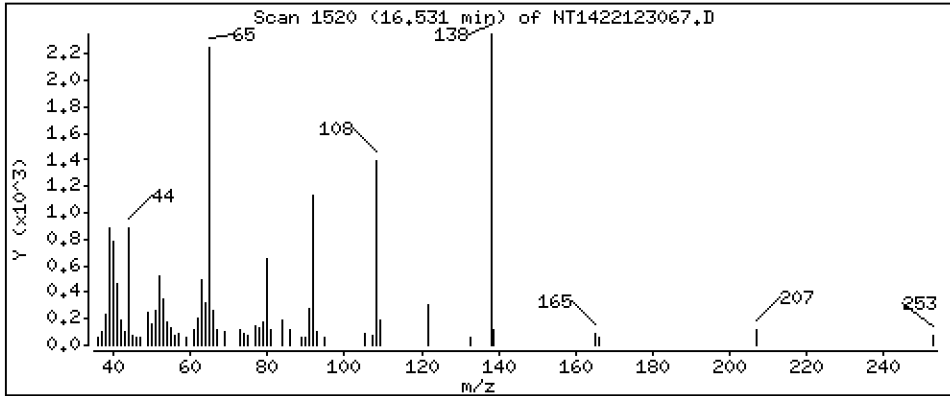
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,3738 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

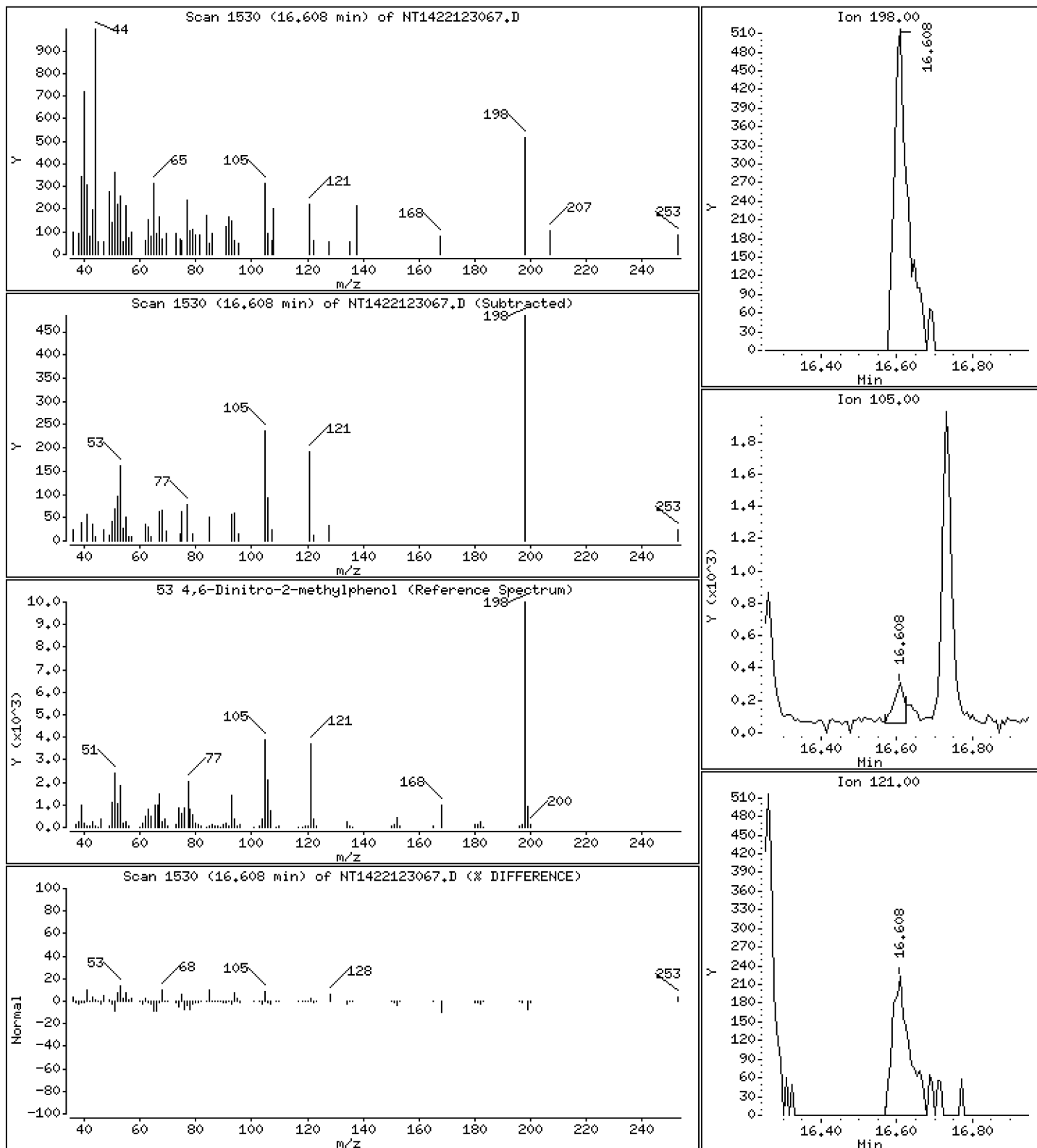
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,09261 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

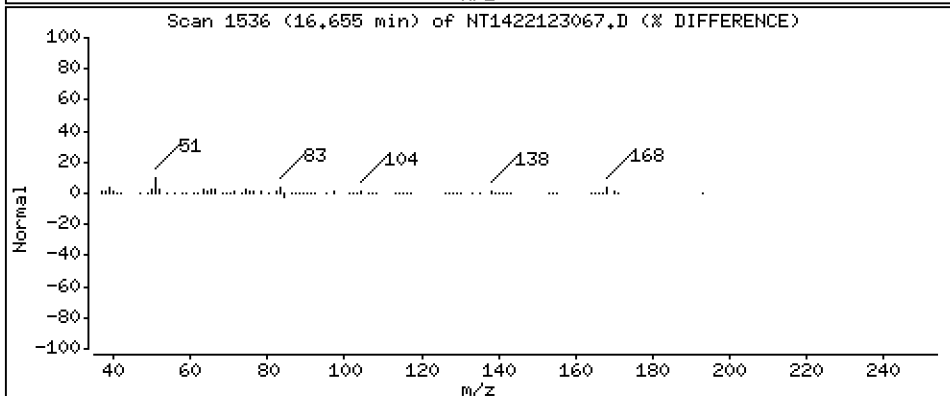
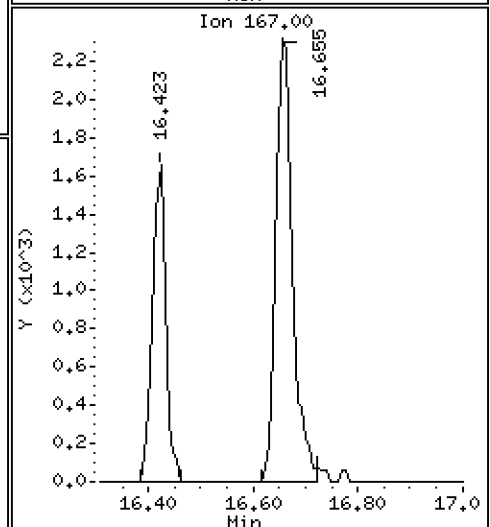
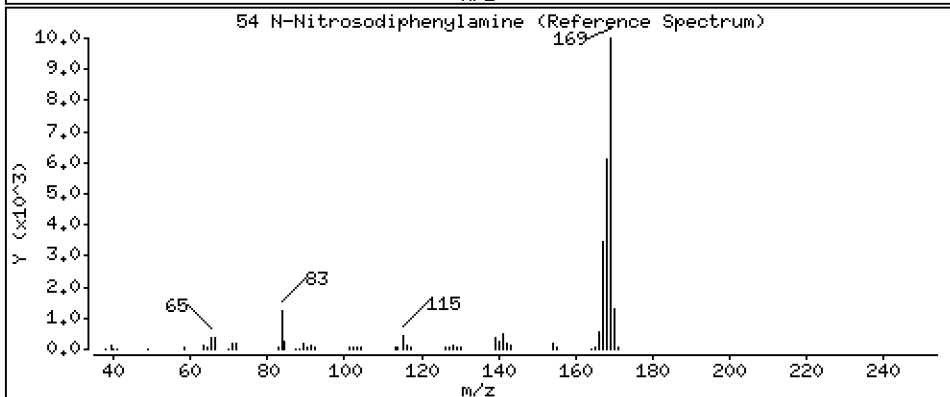
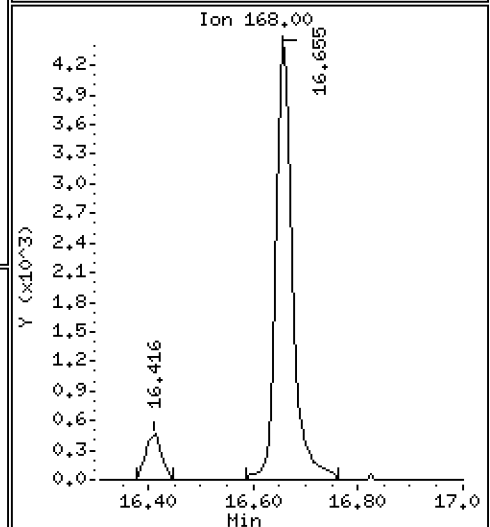
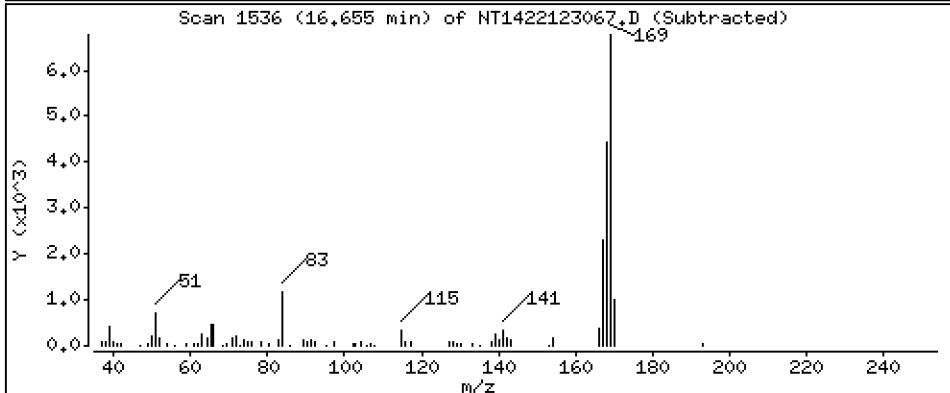
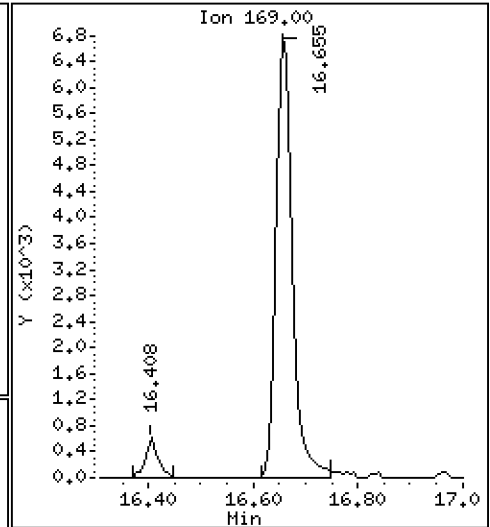
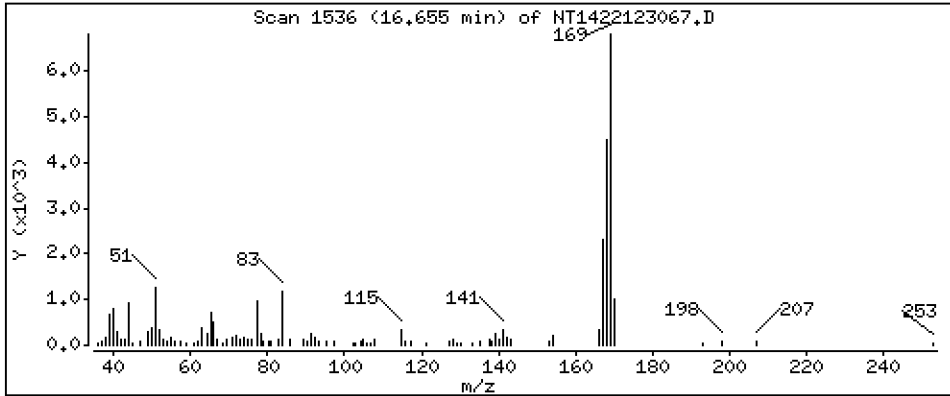
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2509 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

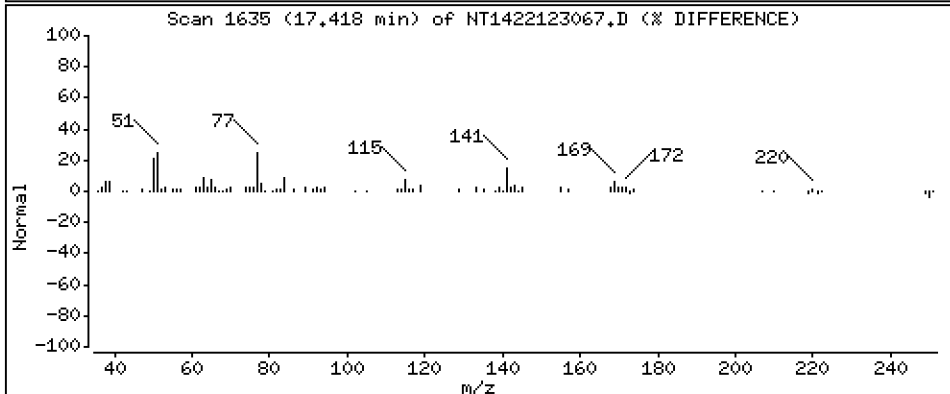
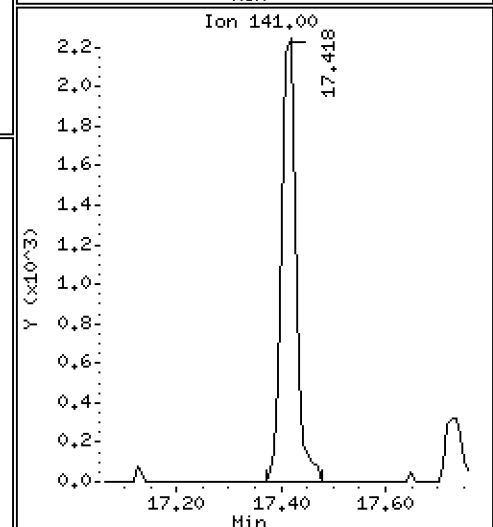
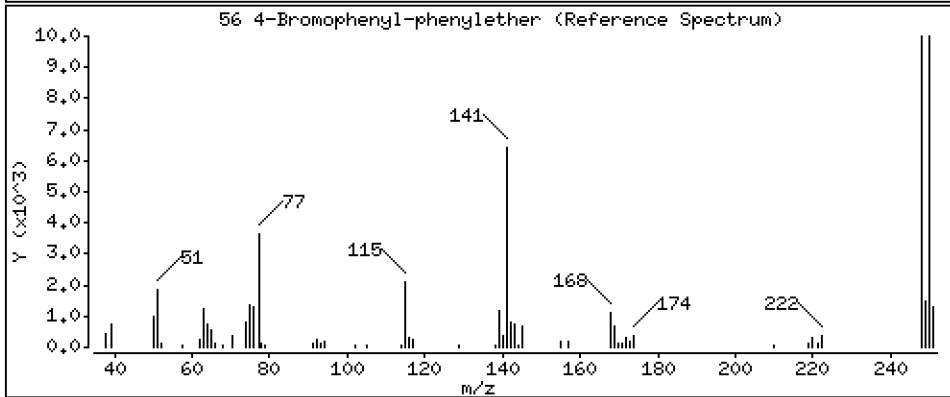
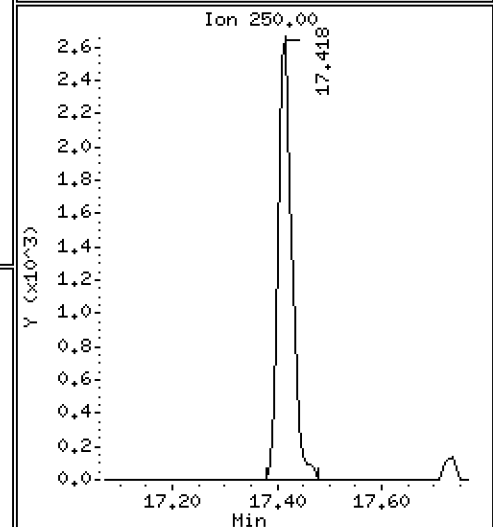
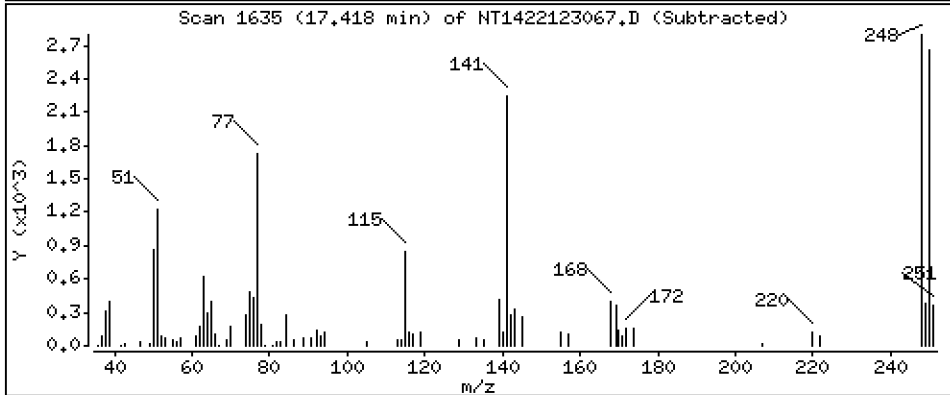
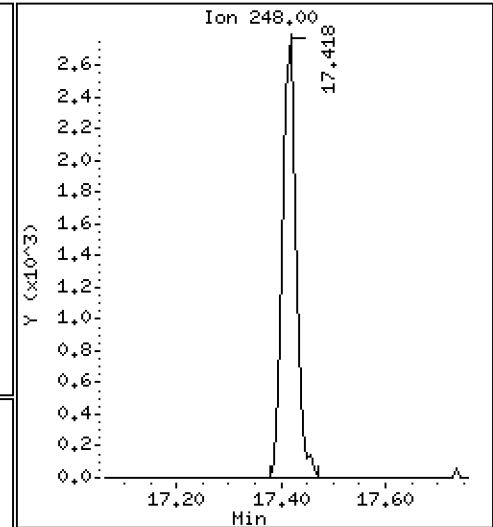
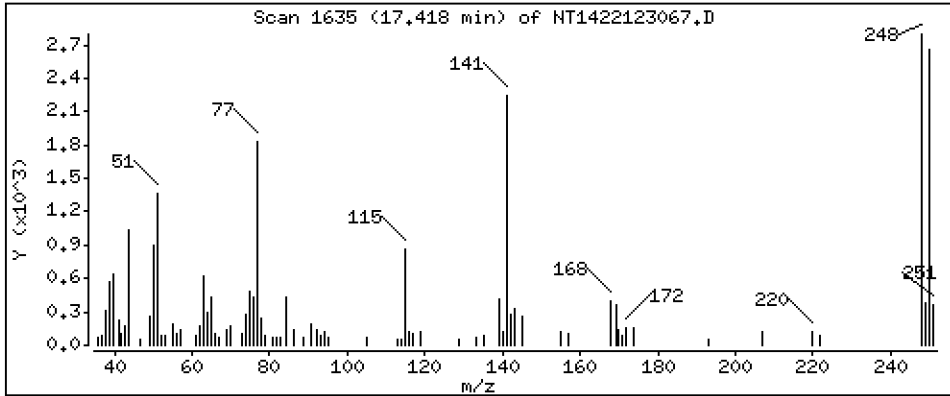
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2232 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

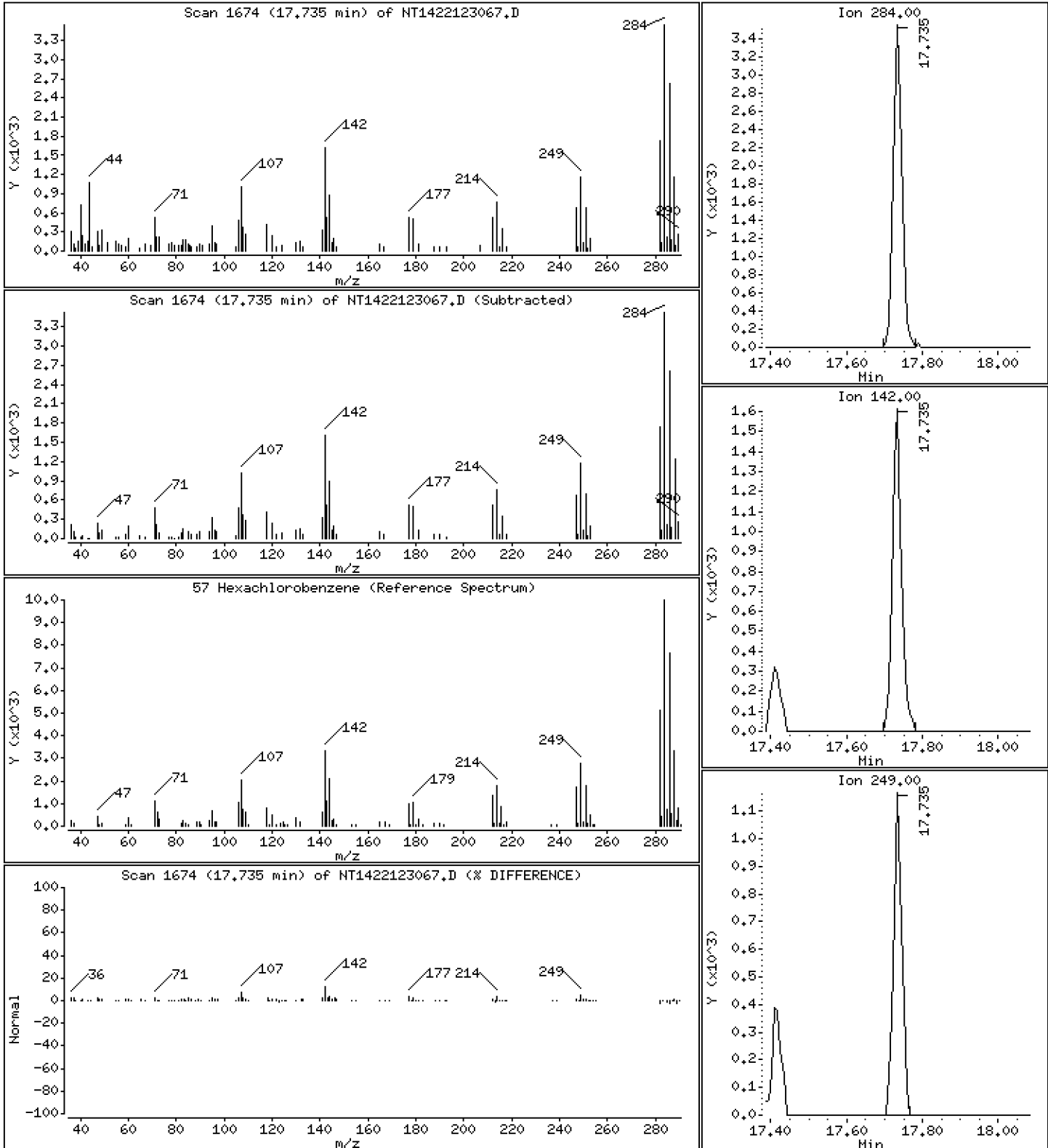
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2368 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

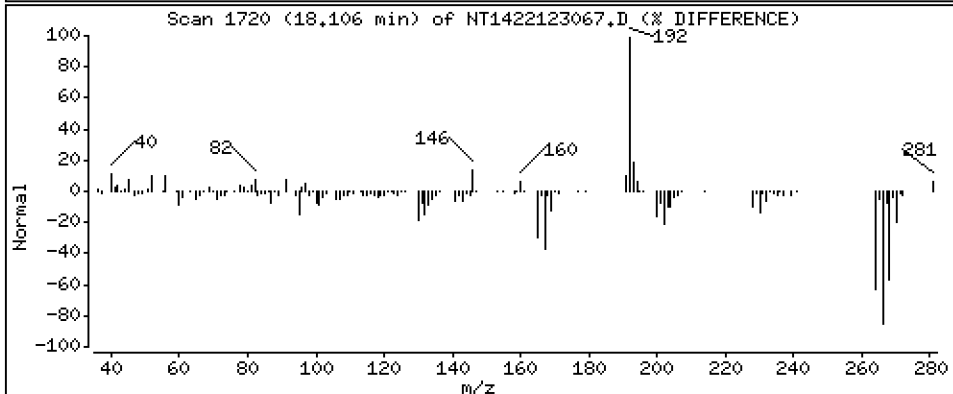
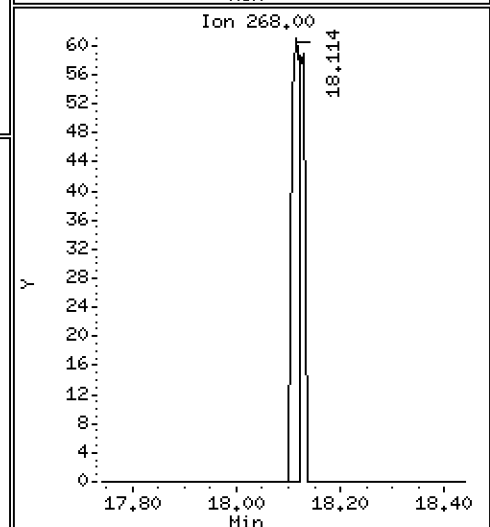
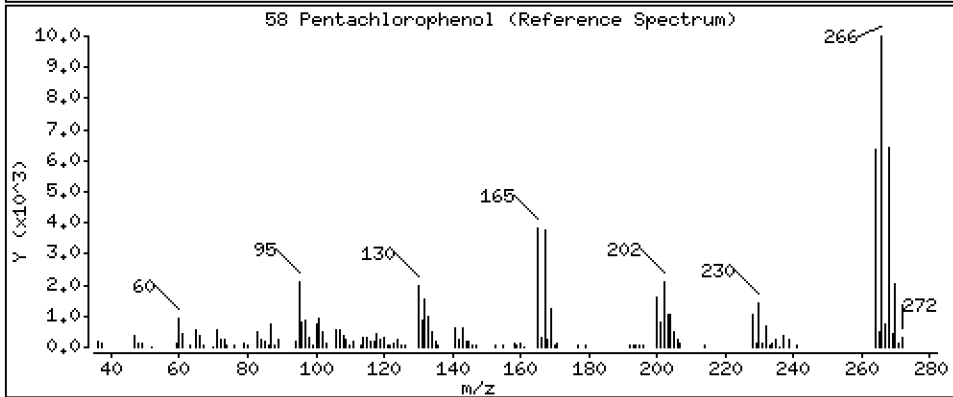
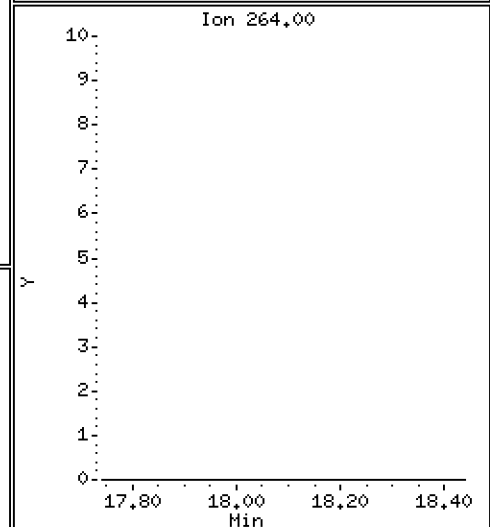
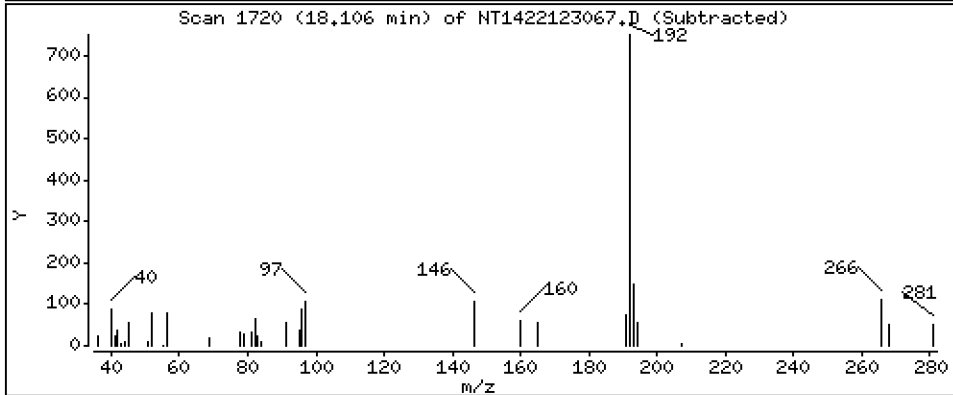
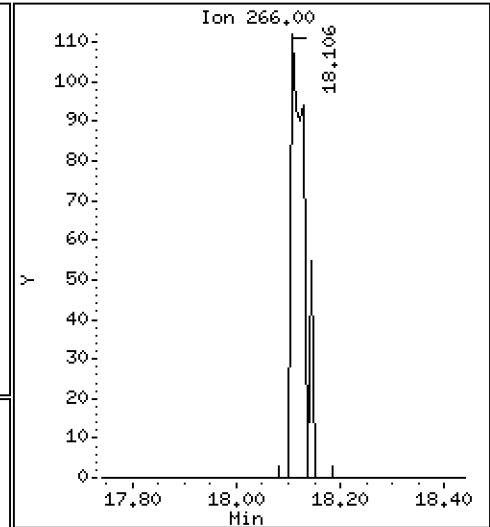
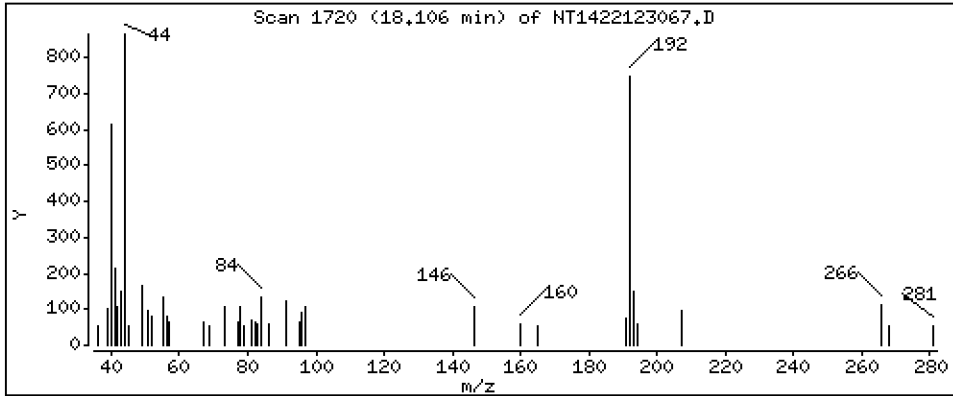
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02024 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

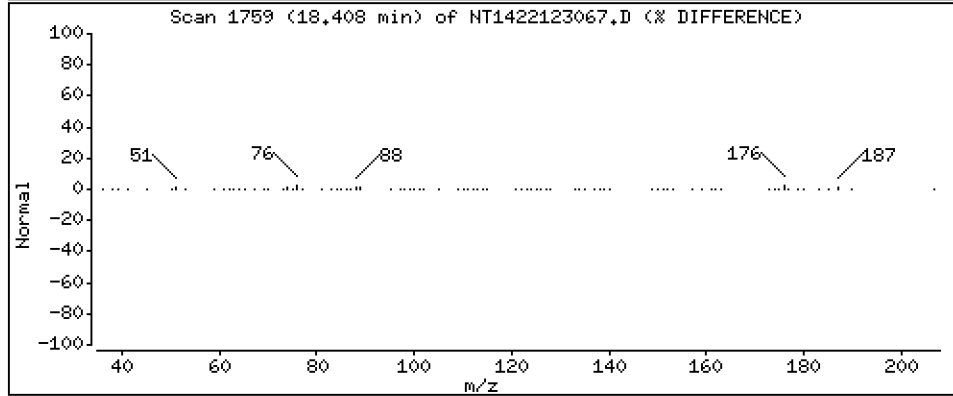
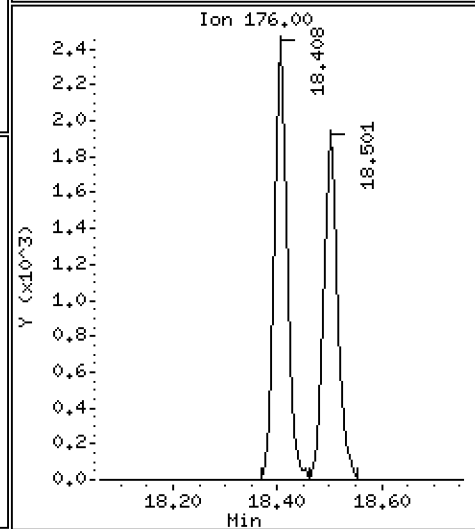
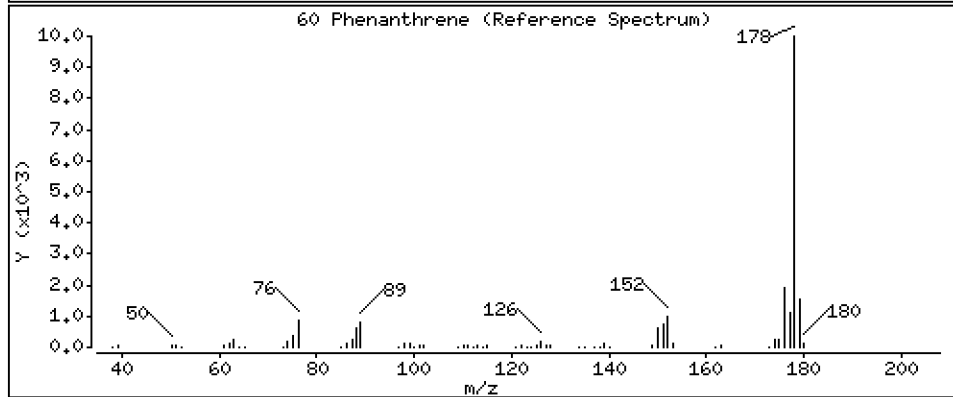
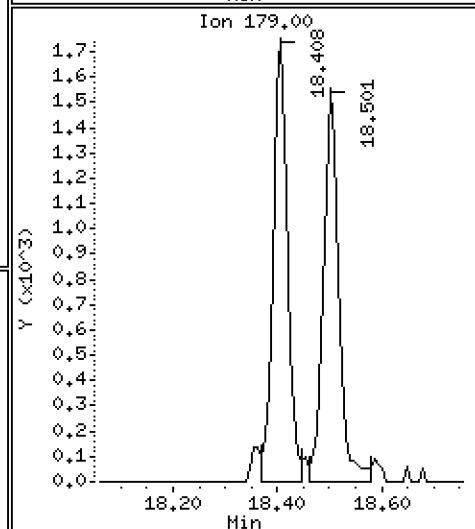
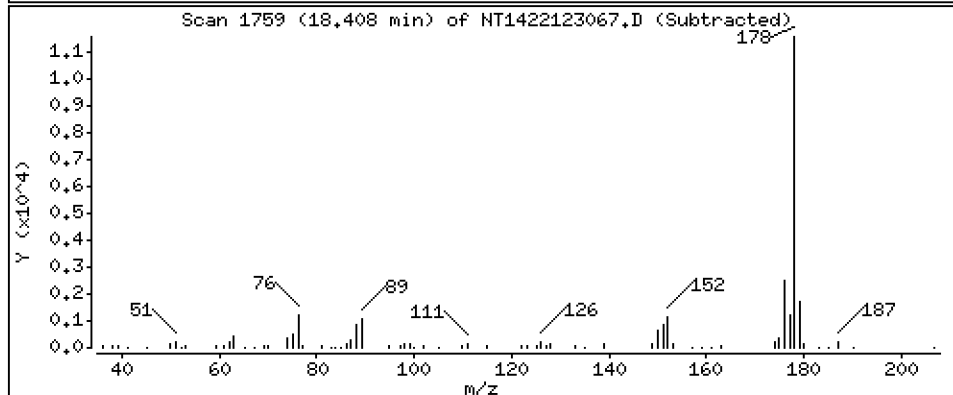
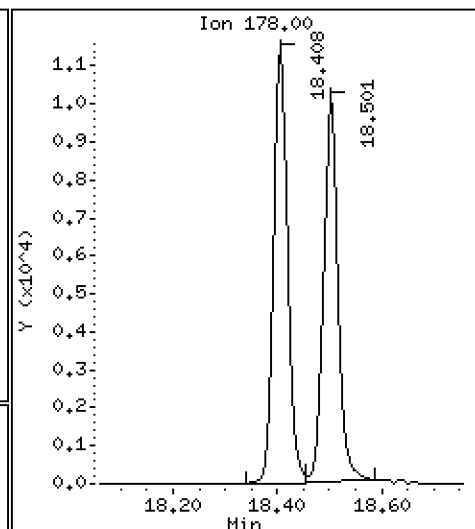
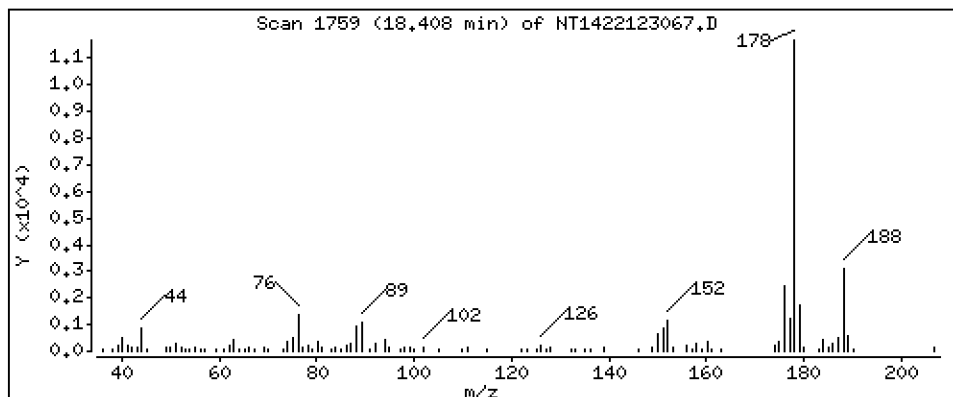
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2396 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

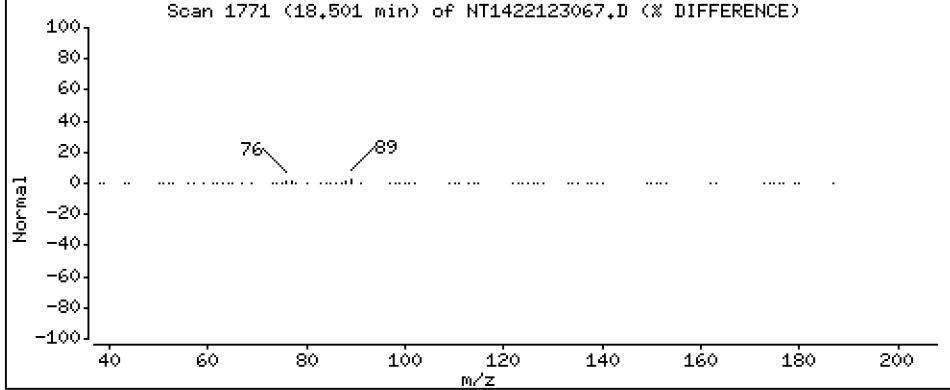
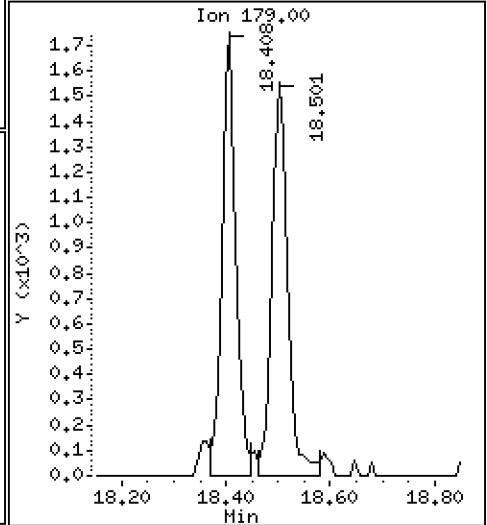
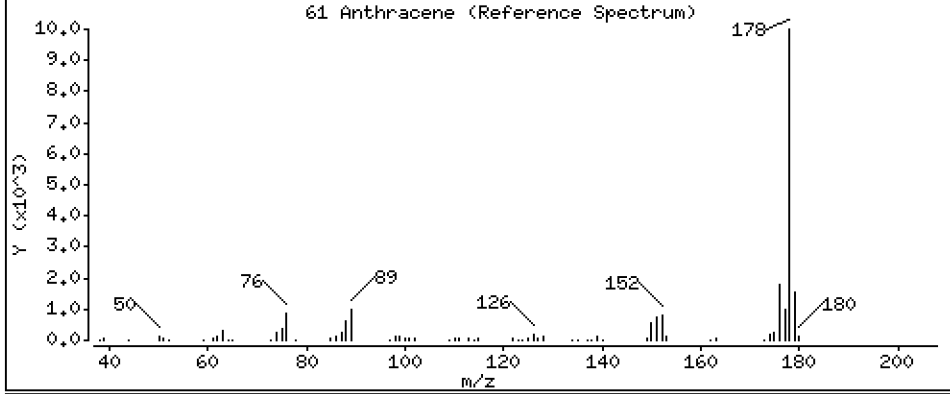
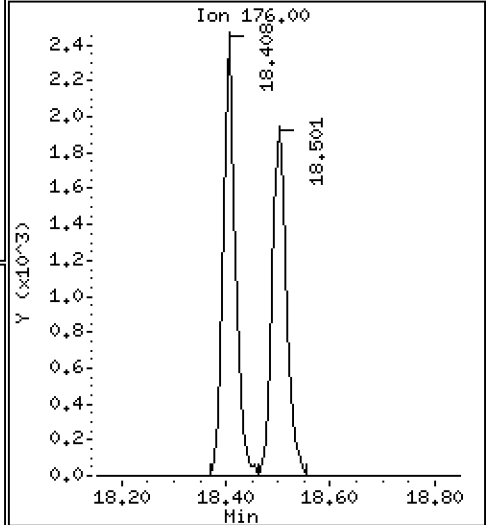
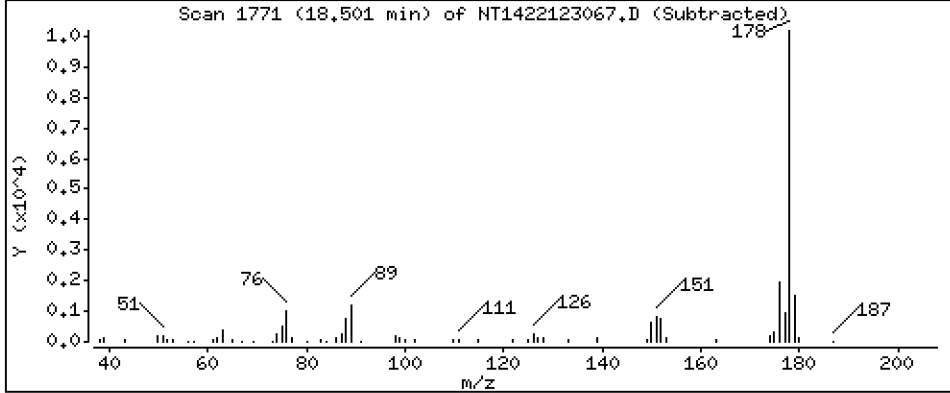
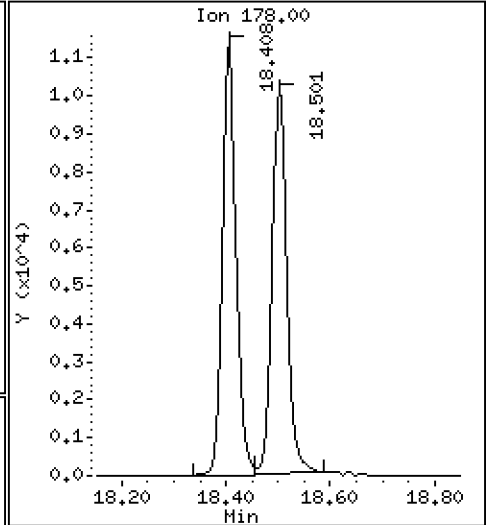
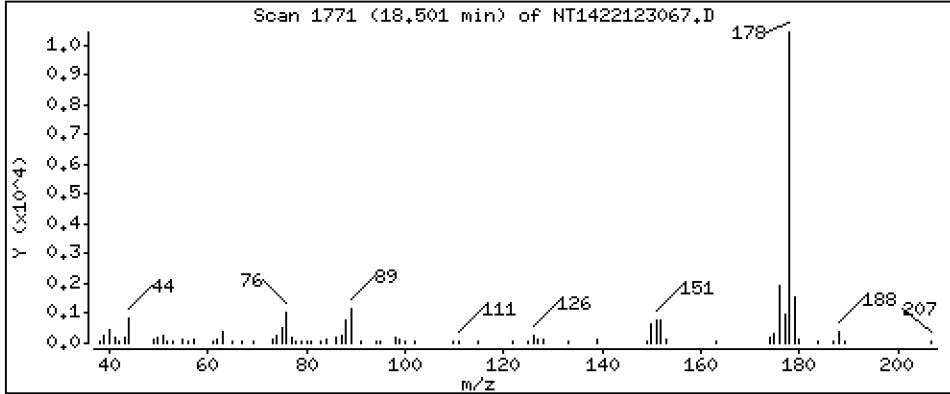
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2322 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

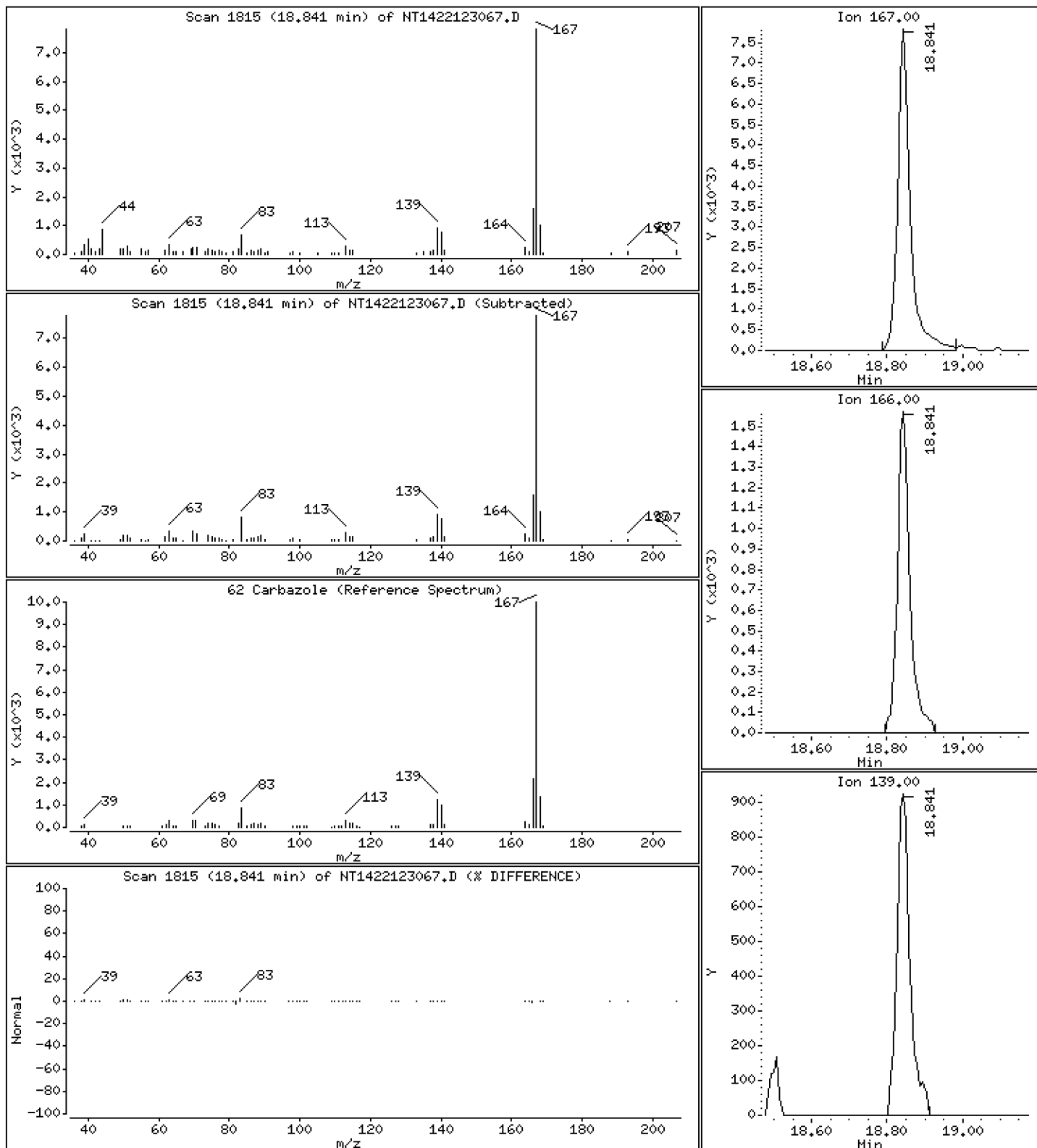
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,2308 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

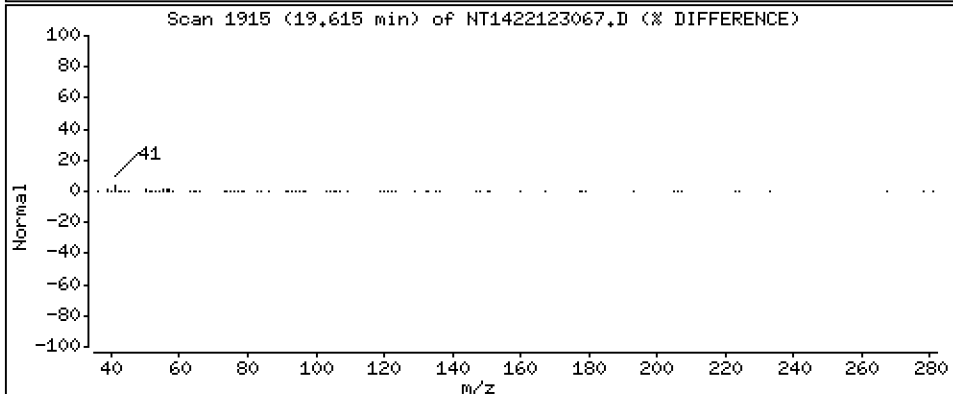
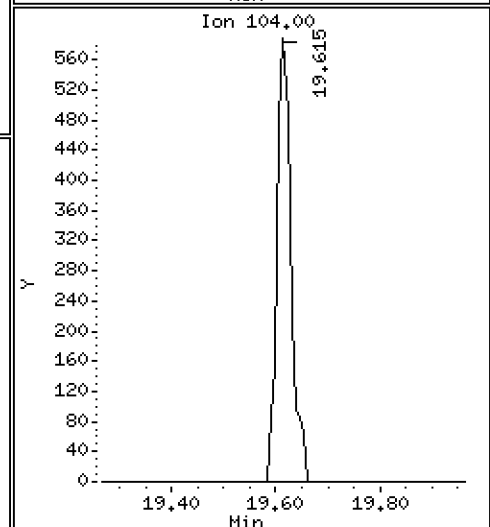
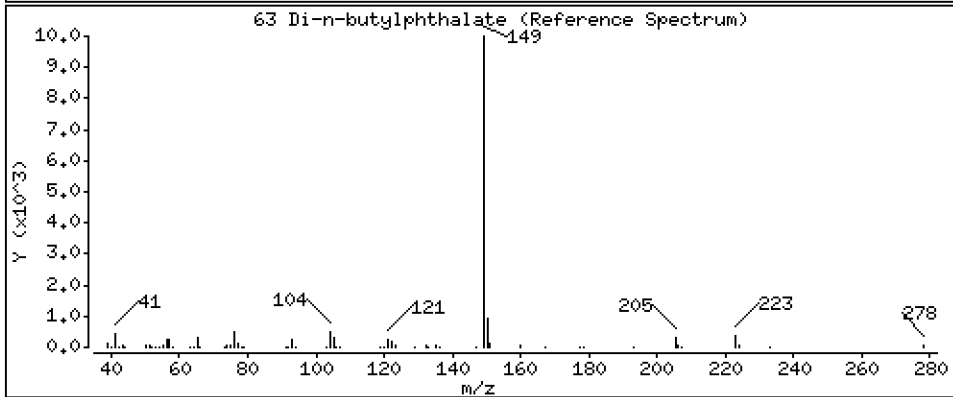
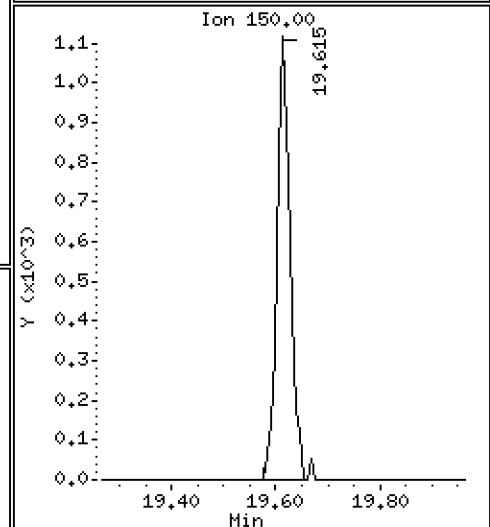
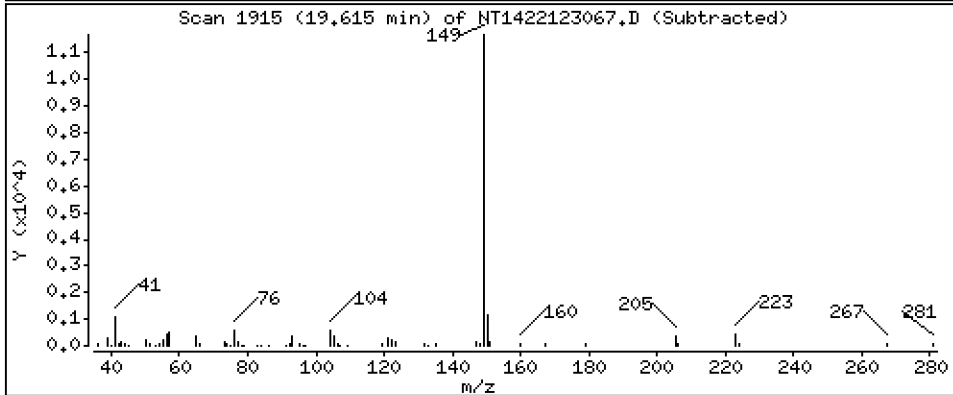
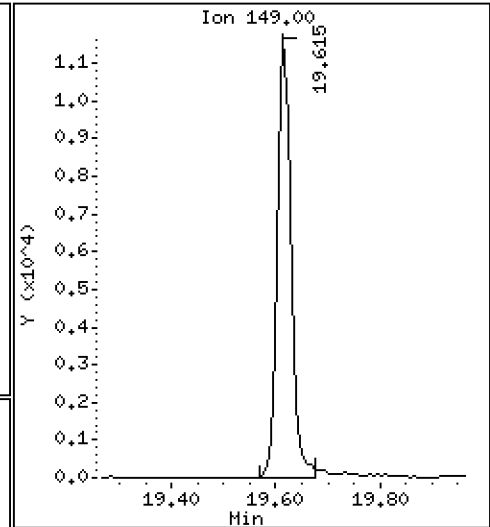
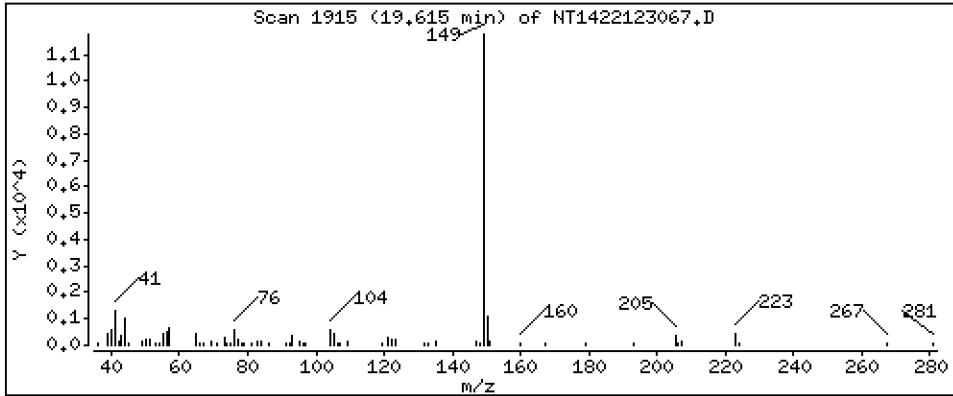
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

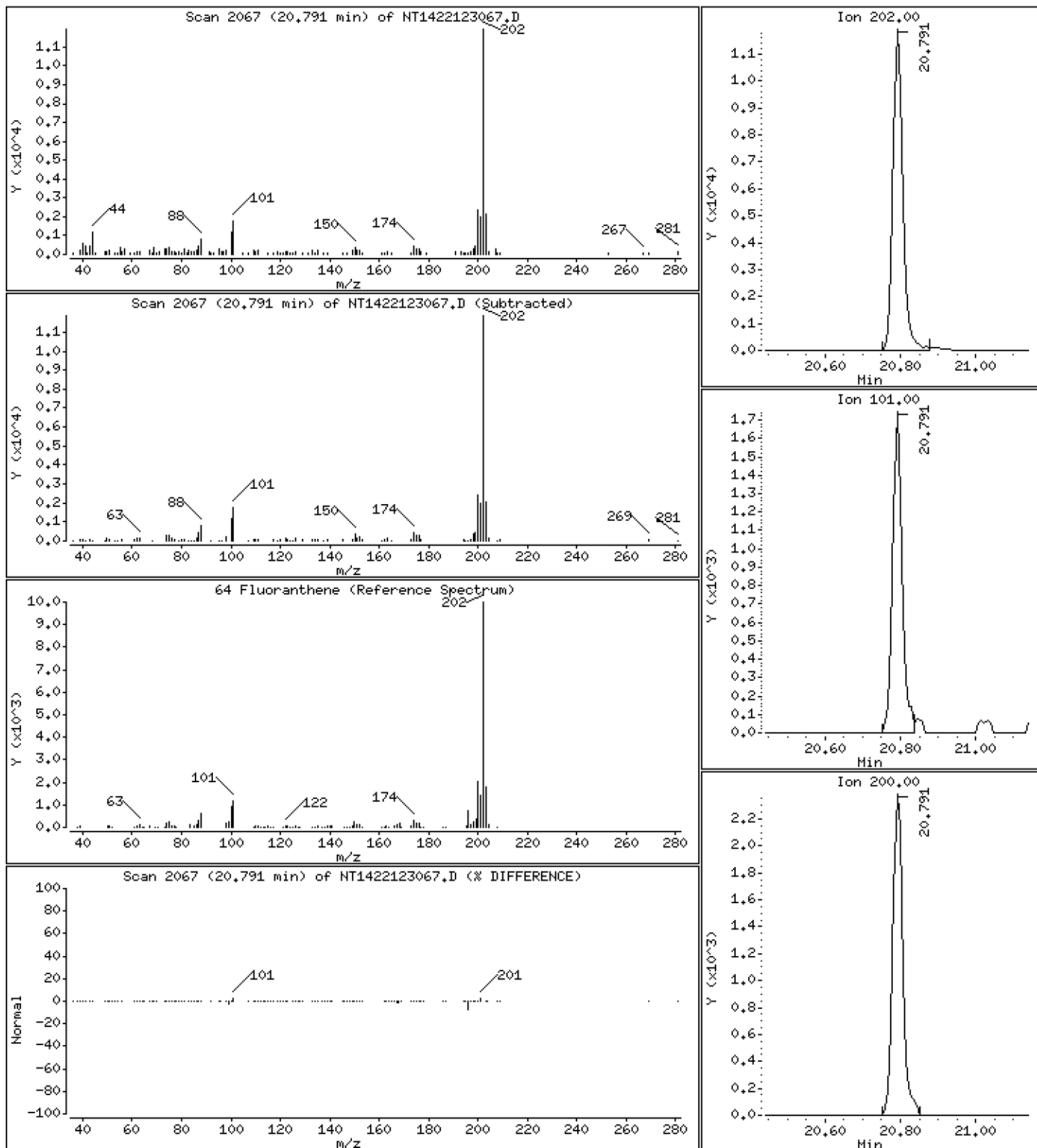
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,2381 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

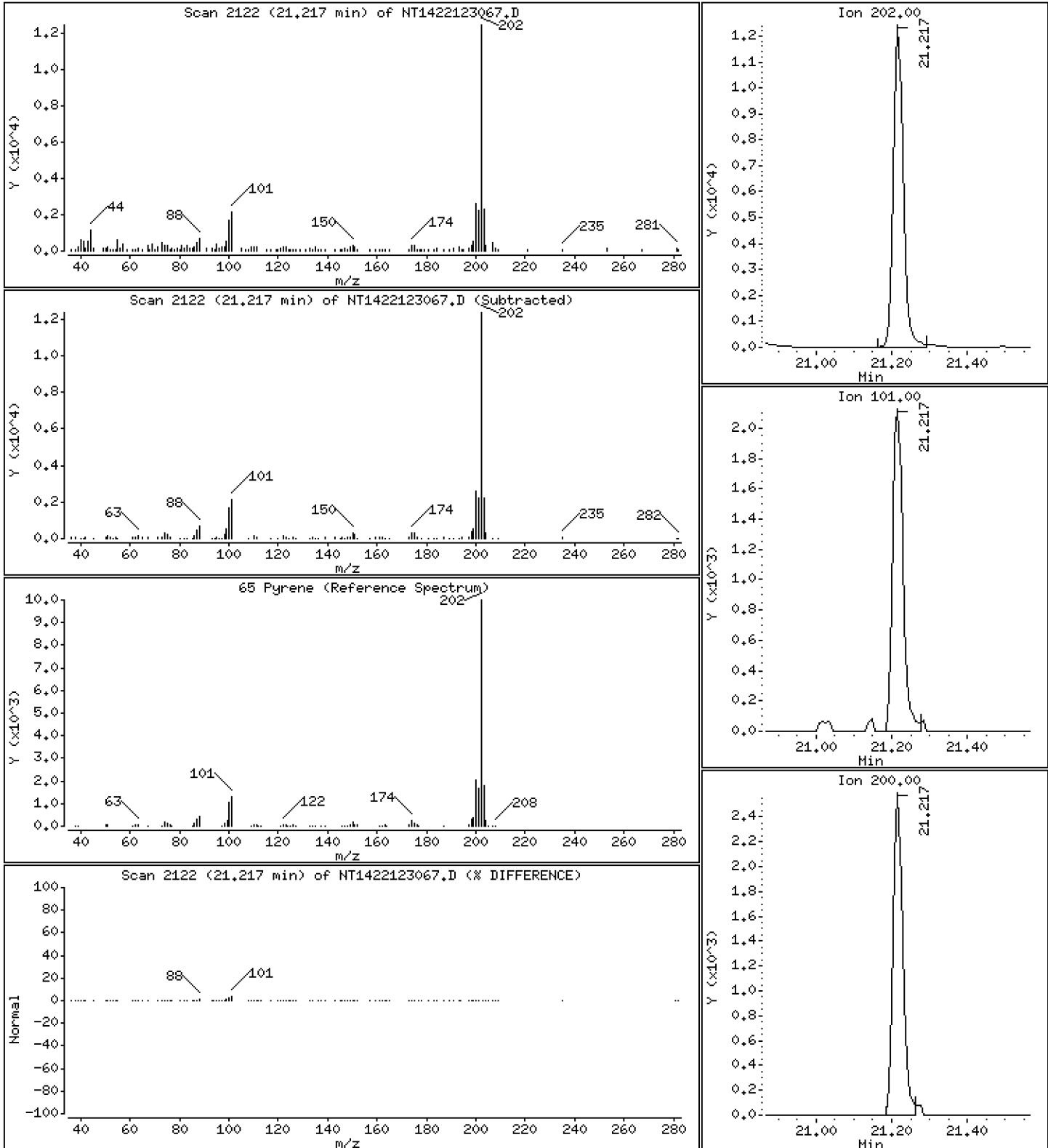
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2334 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

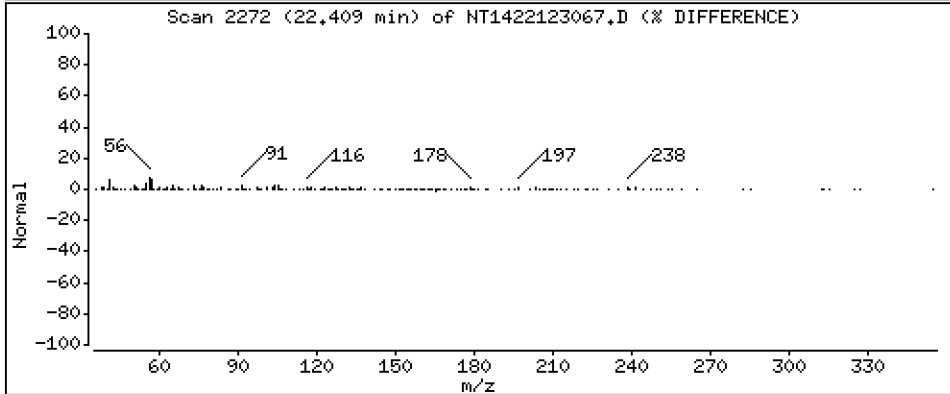
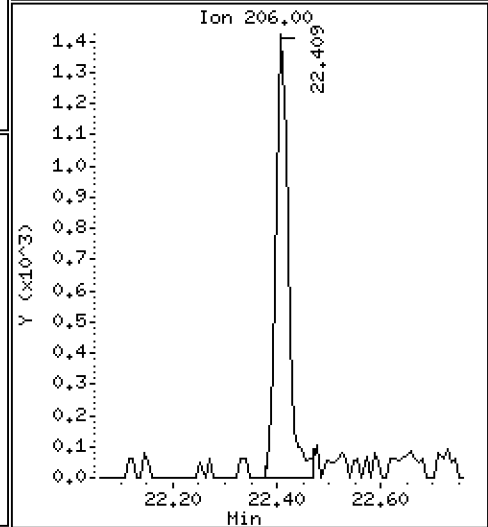
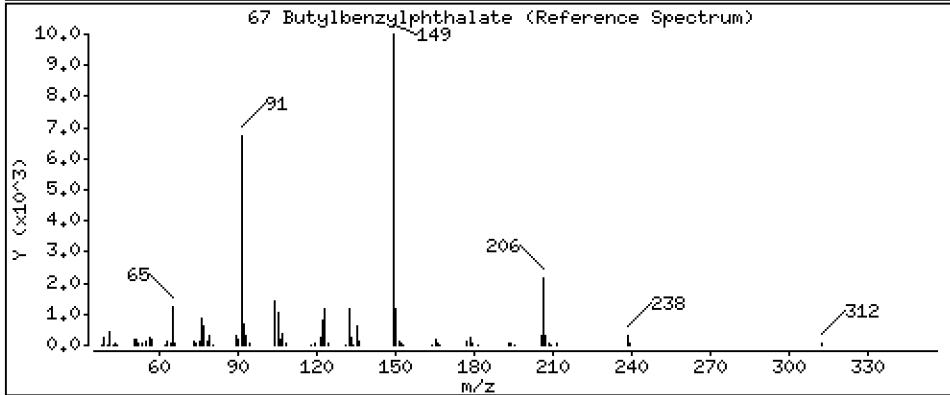
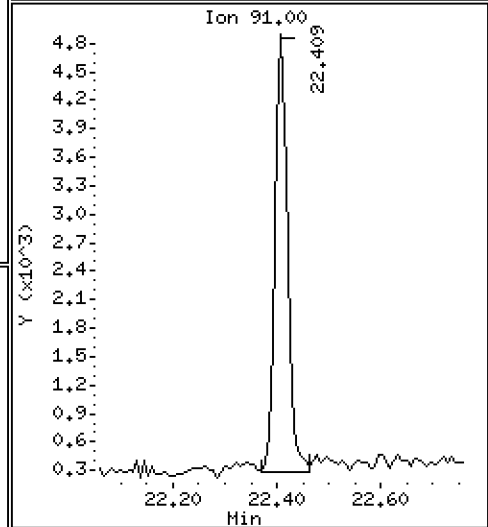
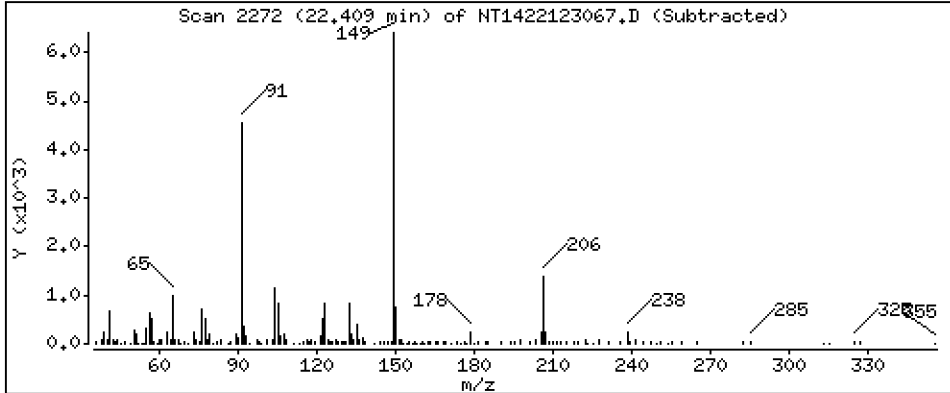
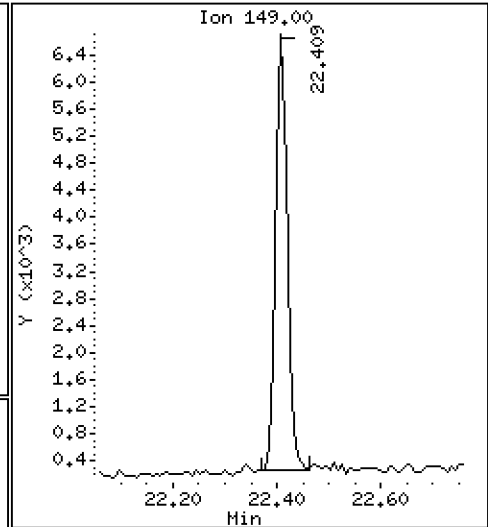
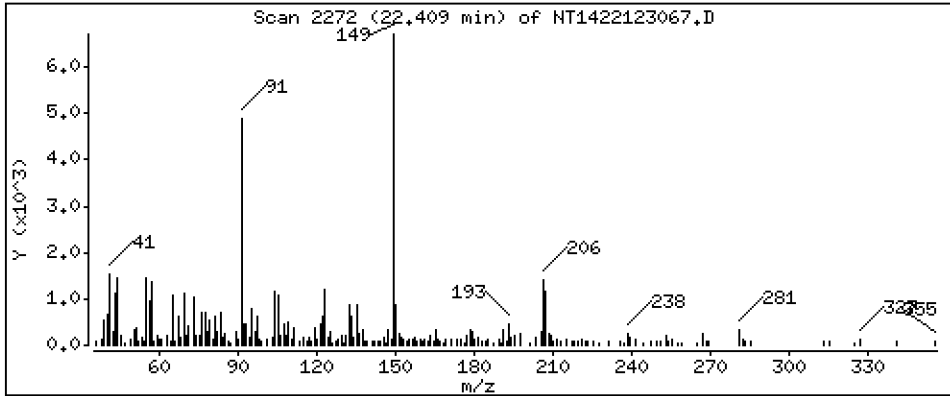
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2699 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

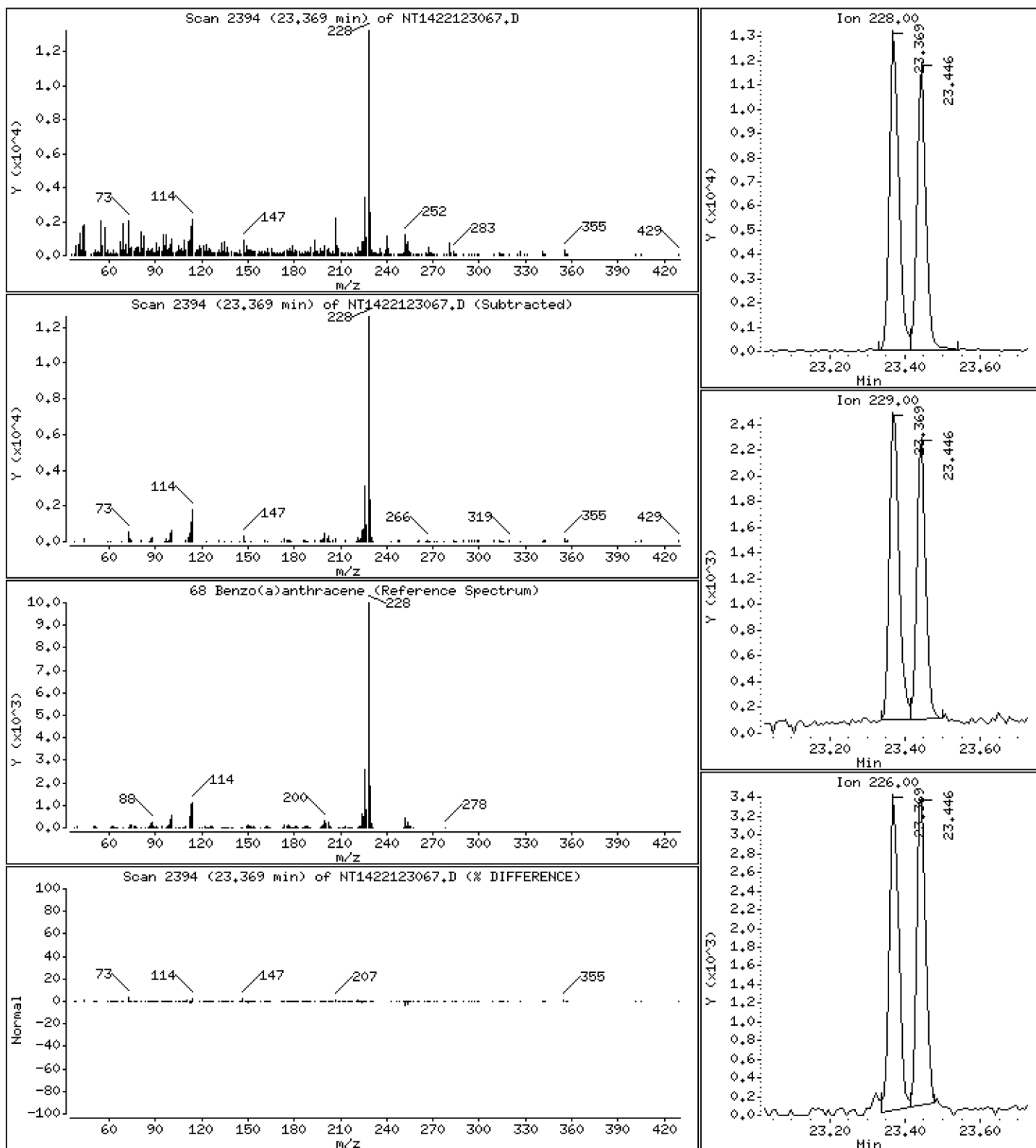
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2639 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

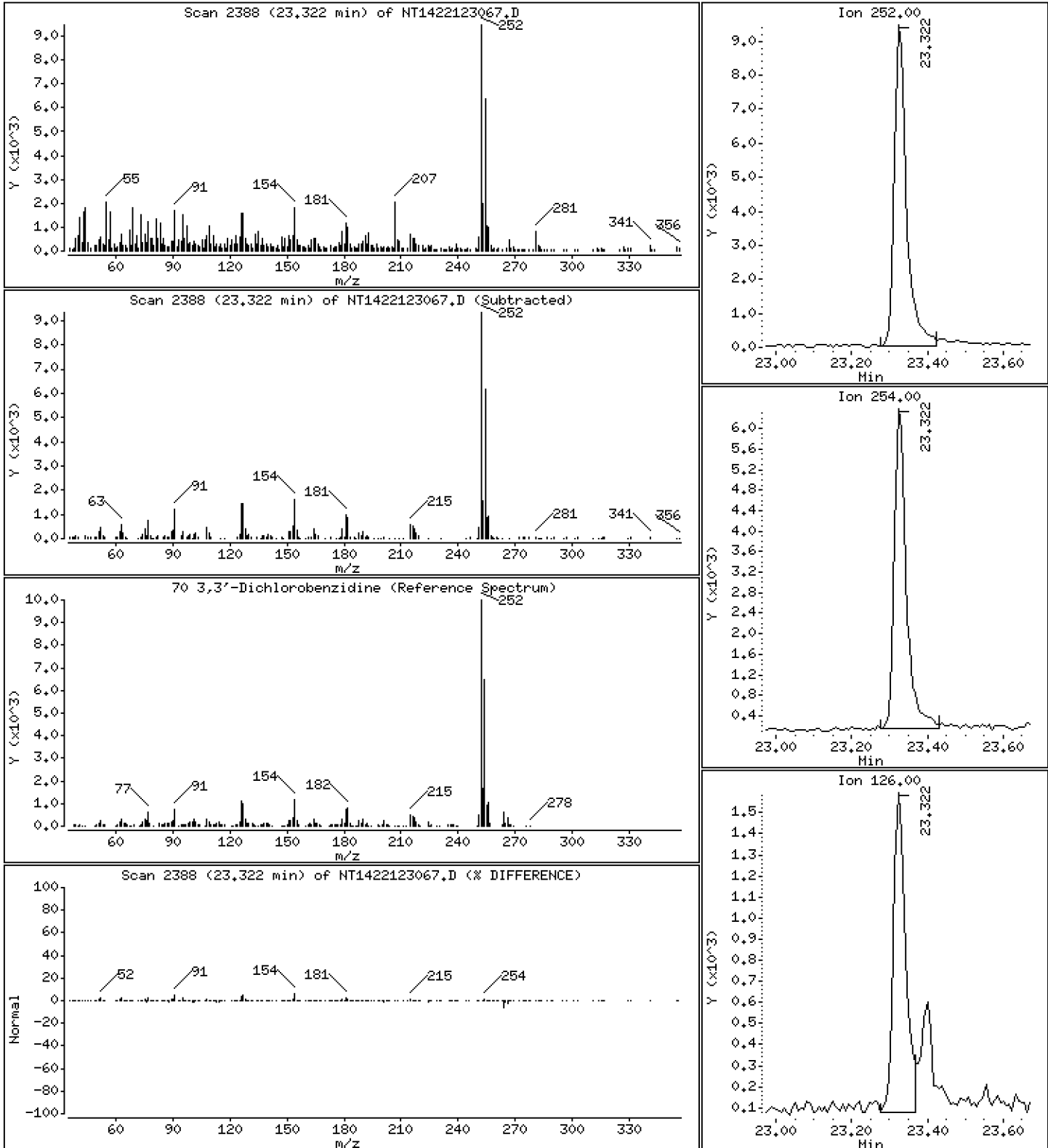
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,8193 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

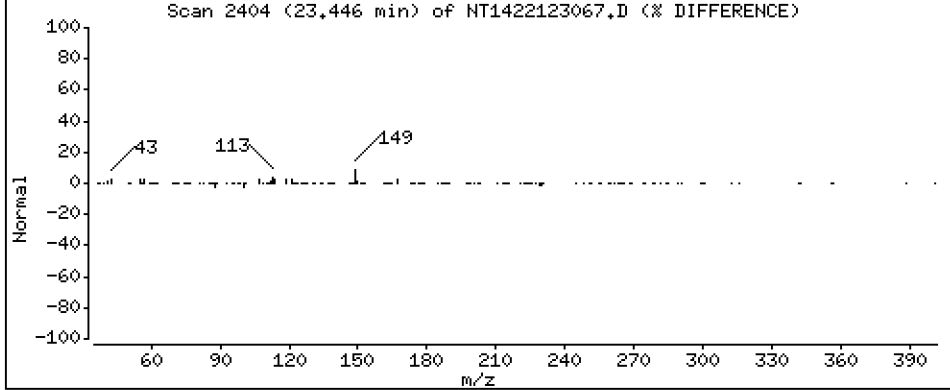
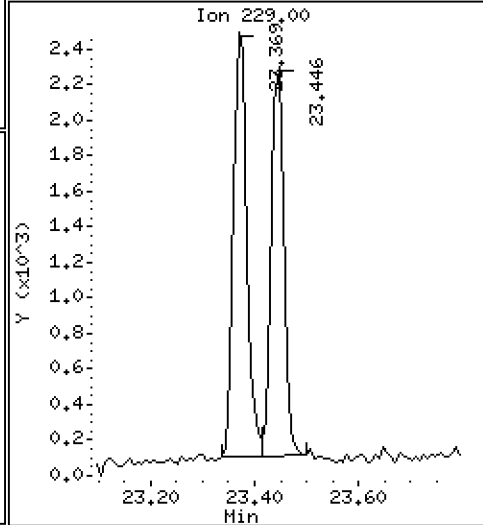
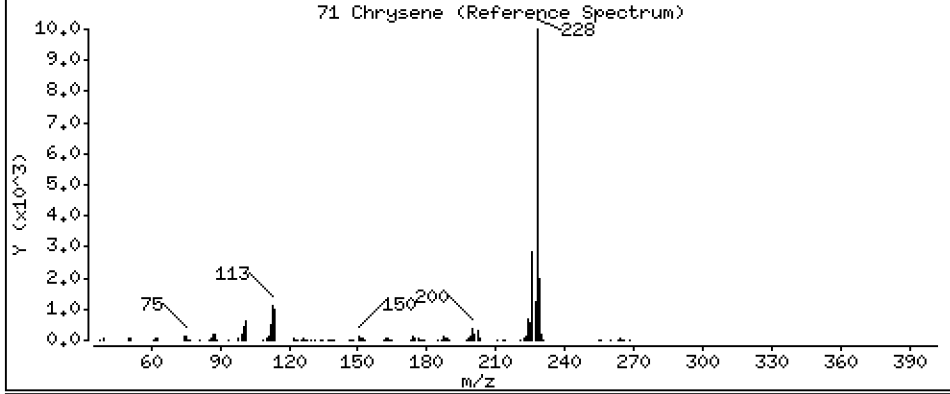
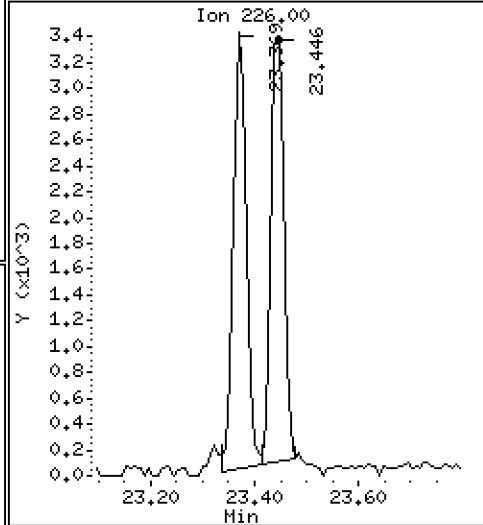
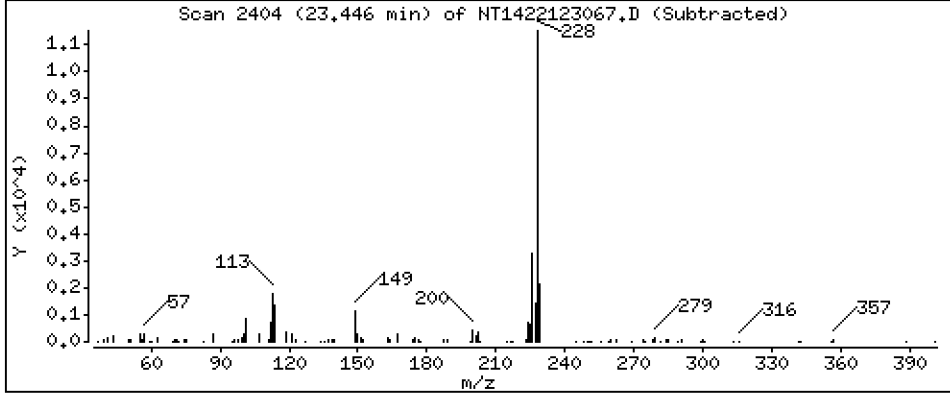
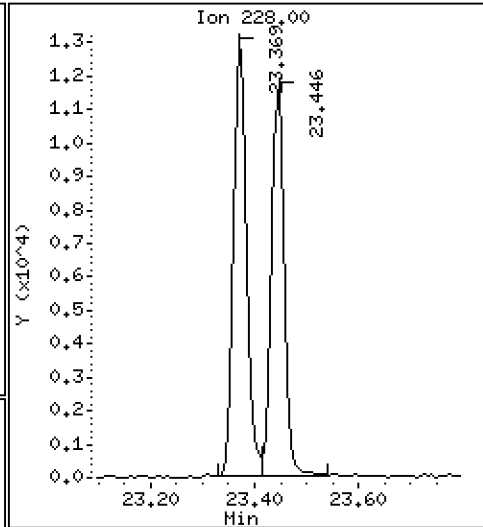
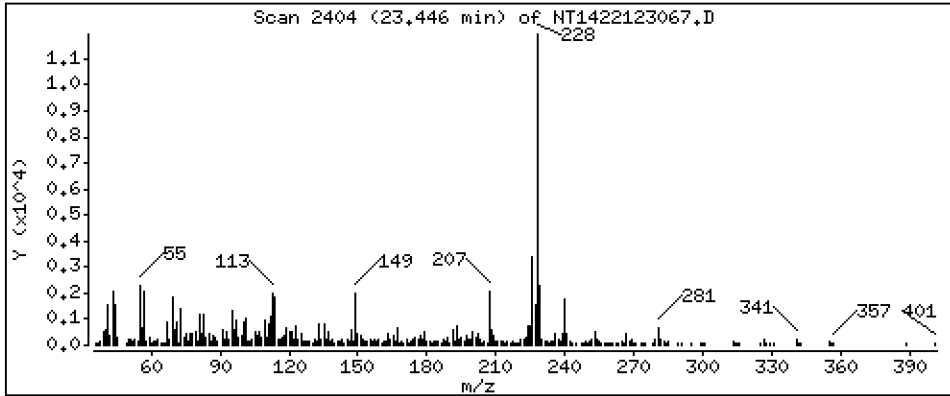
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2429 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

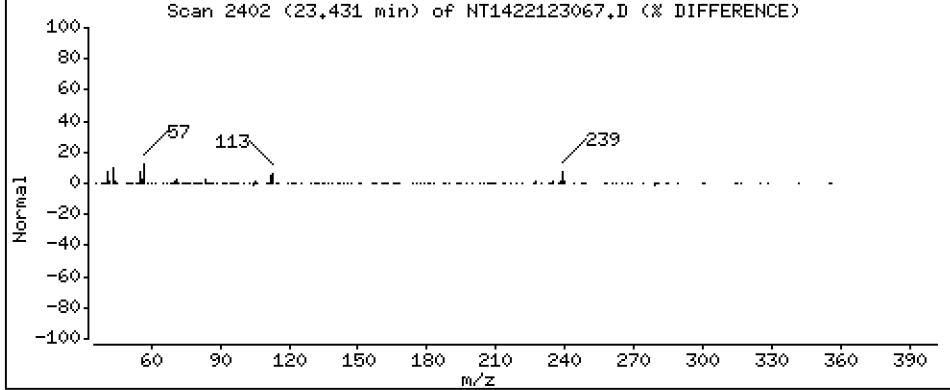
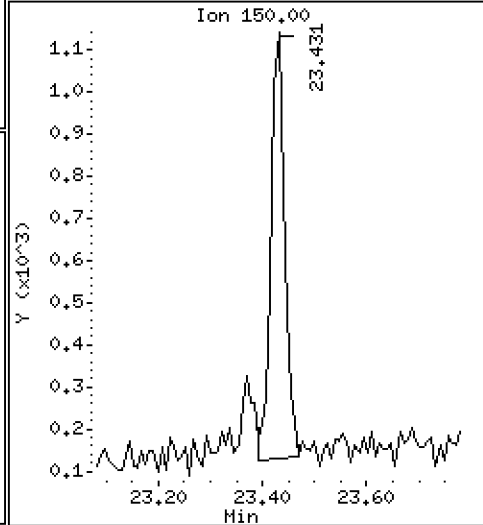
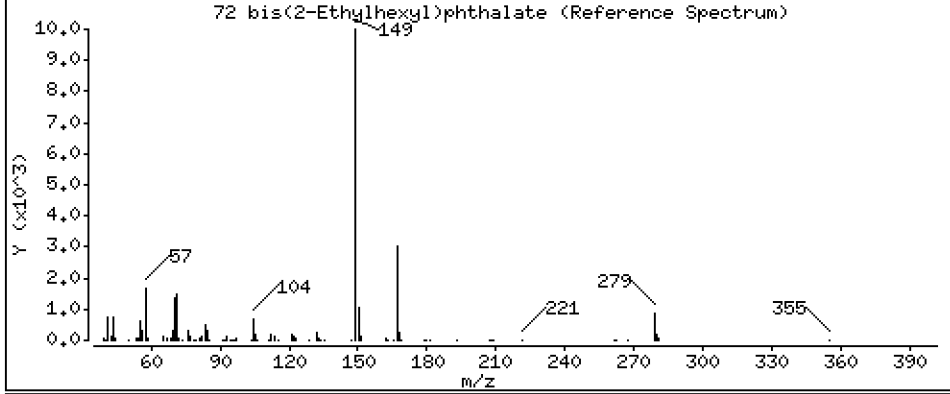
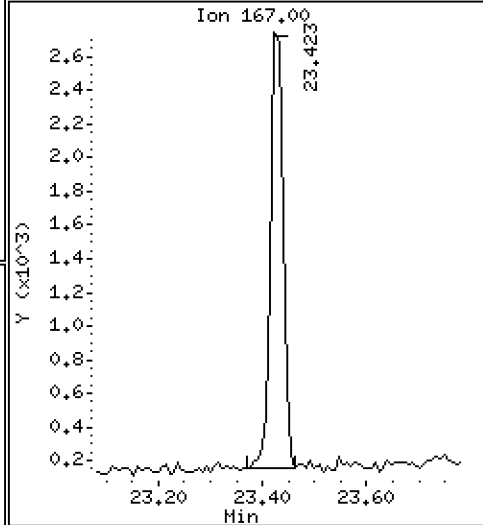
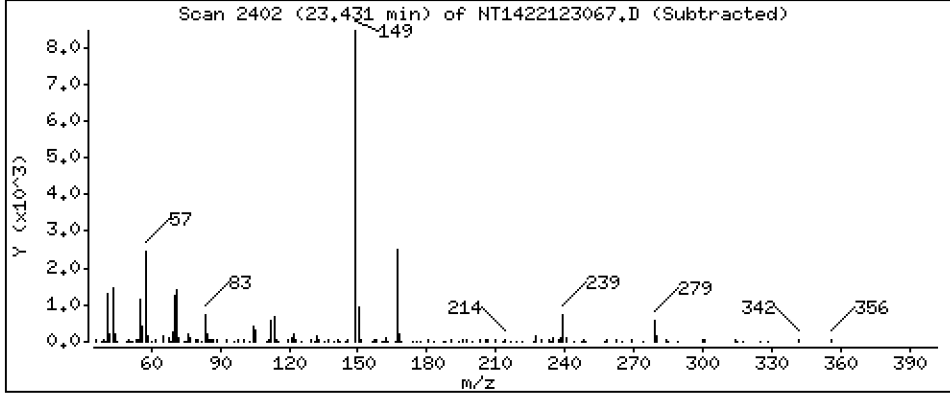
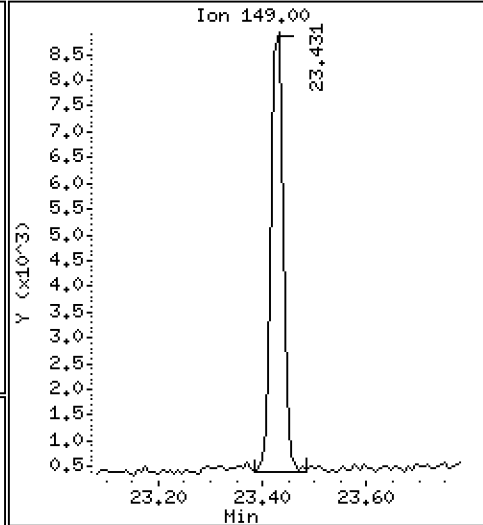
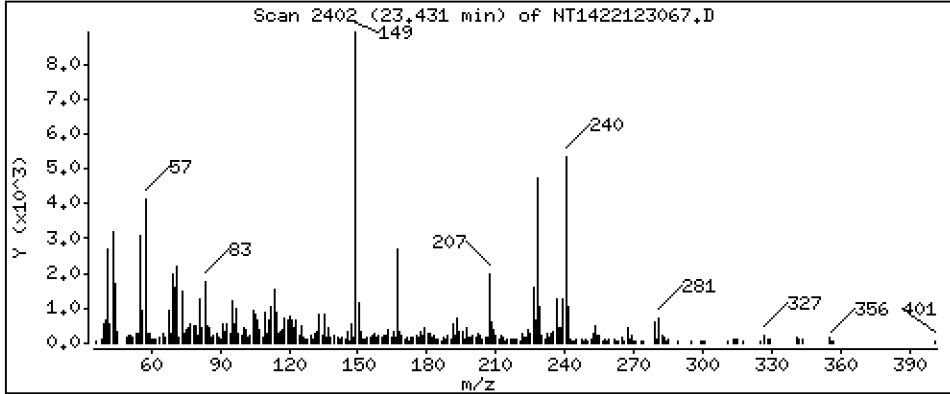
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2611 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

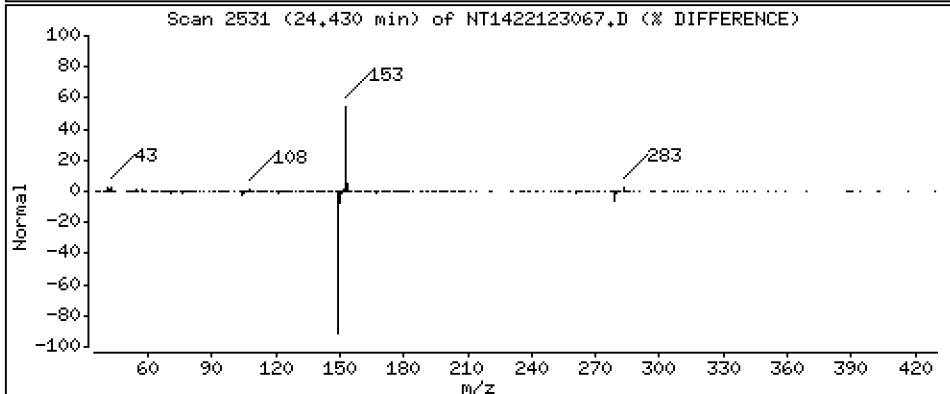
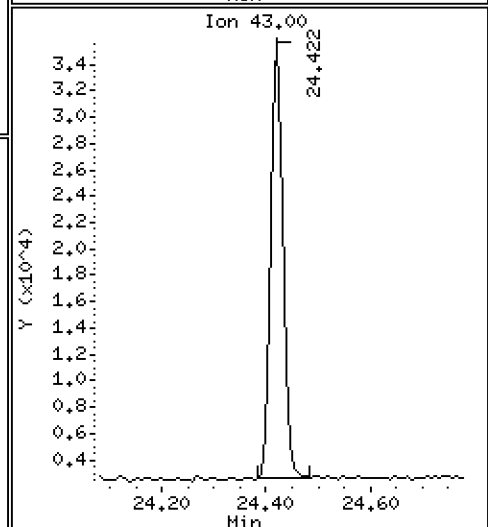
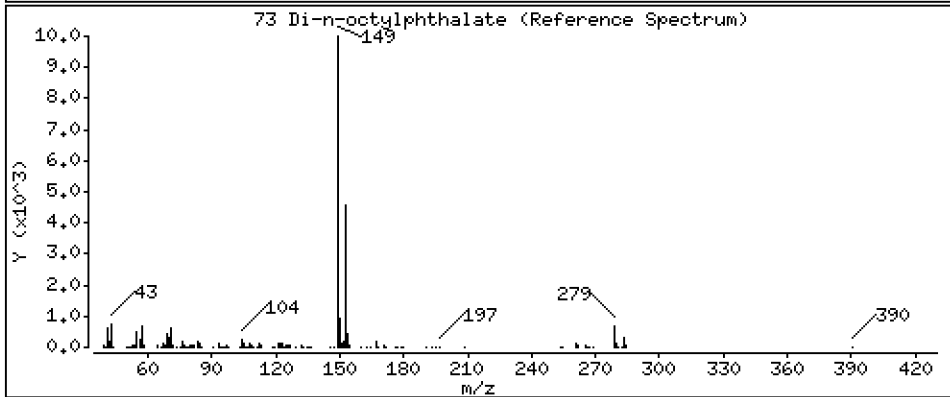
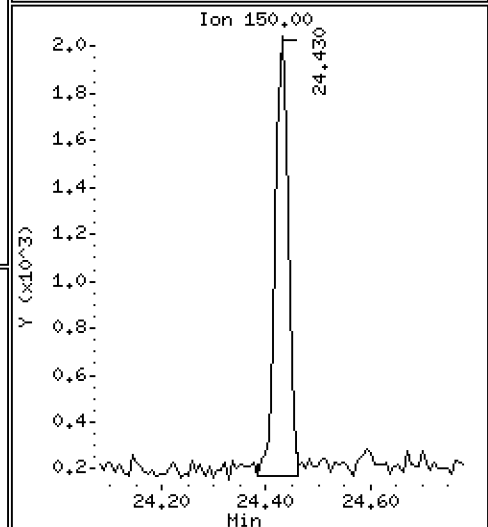
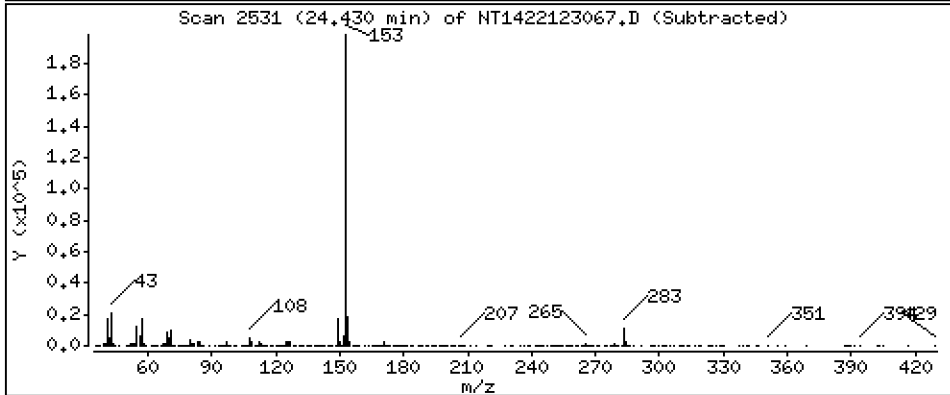
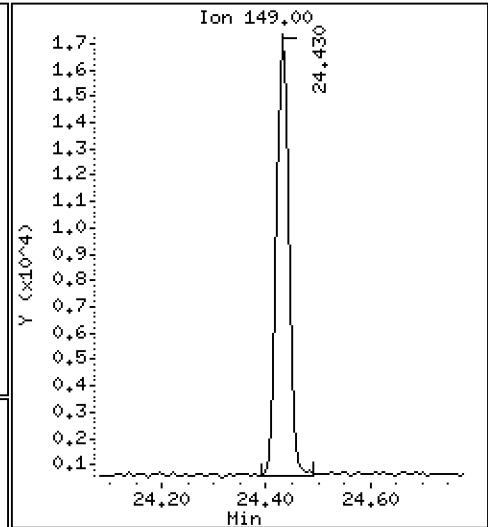
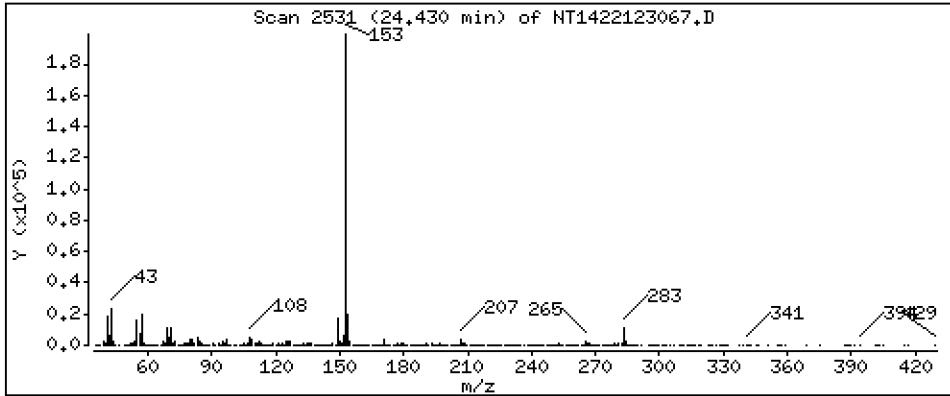
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

73 Di-n-octylphthalate

Concentration: 0.2459 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

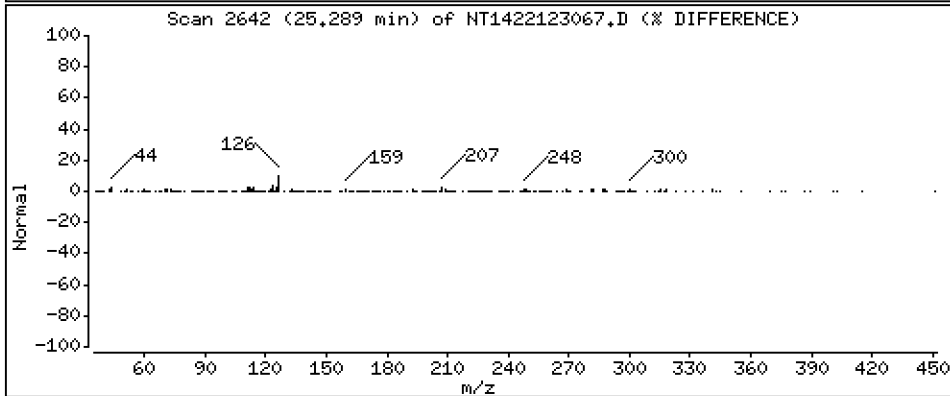
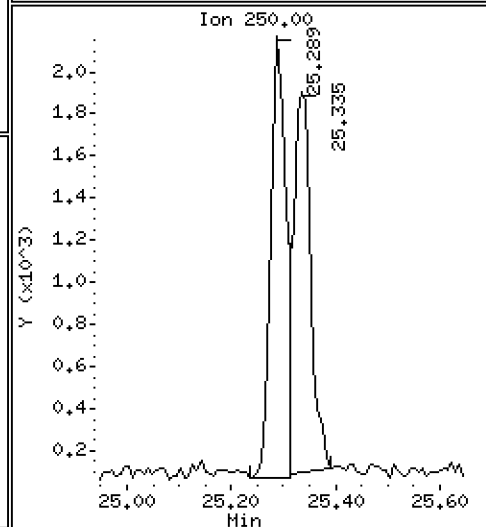
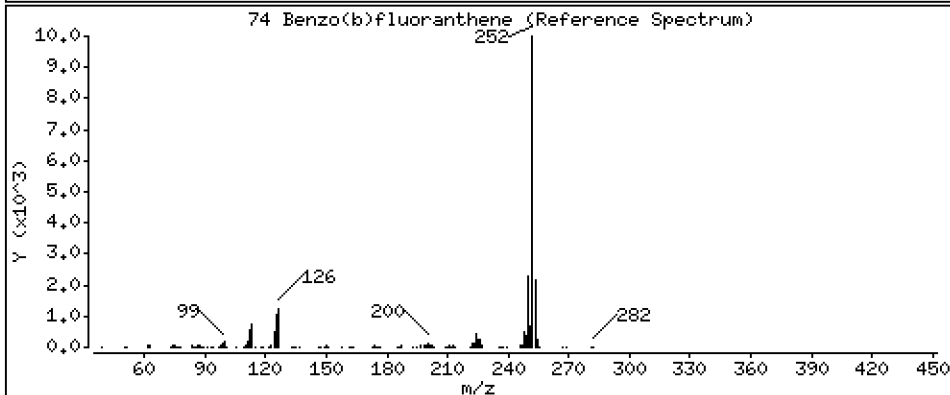
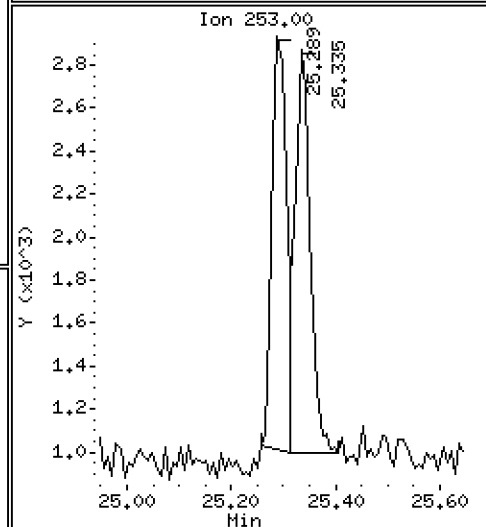
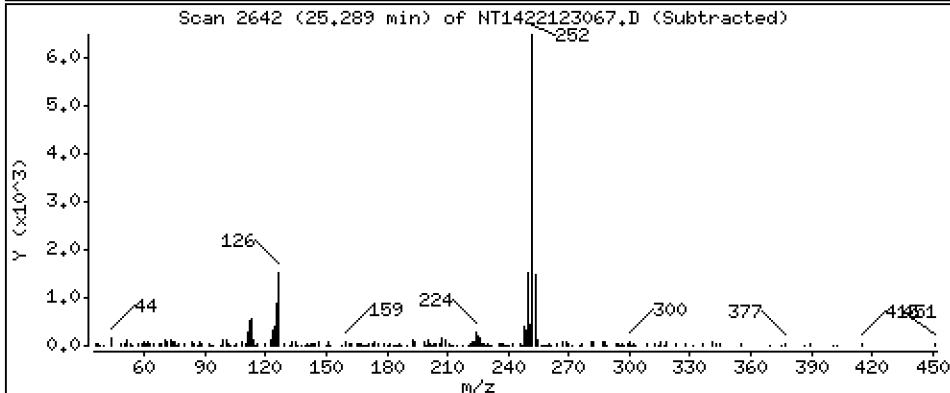
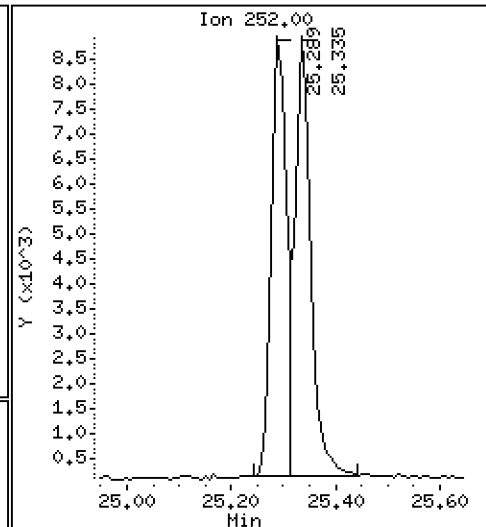
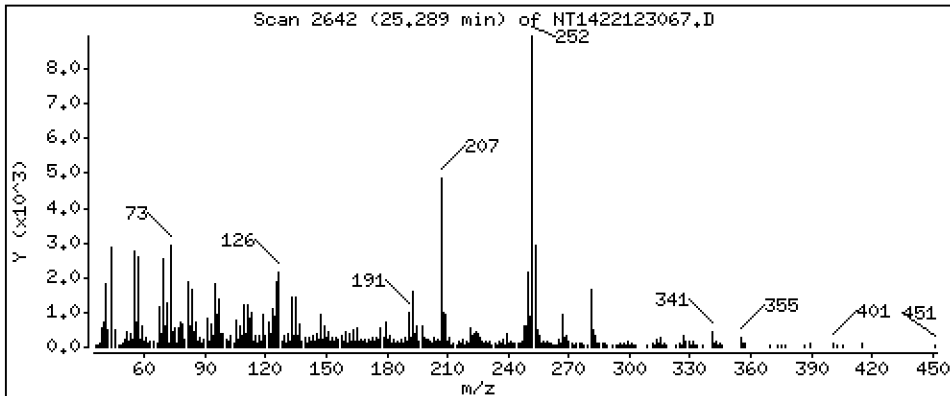
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2414 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

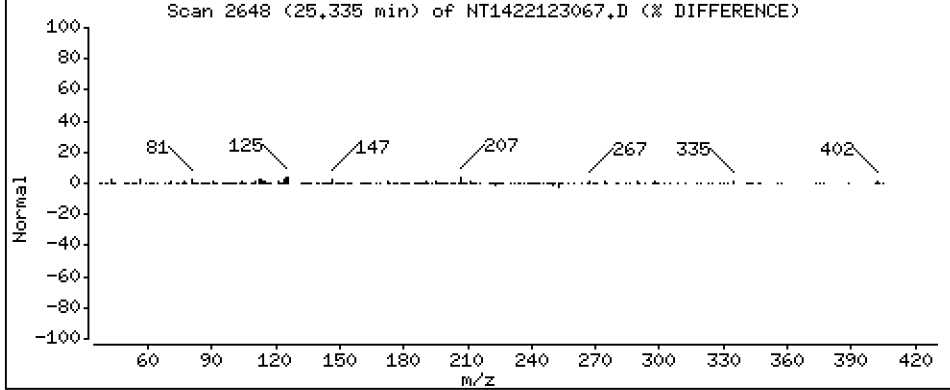
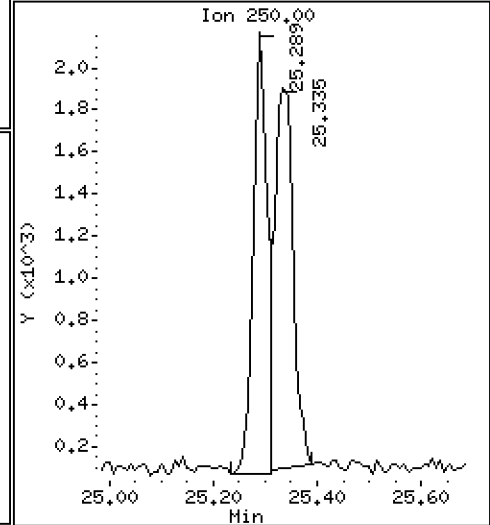
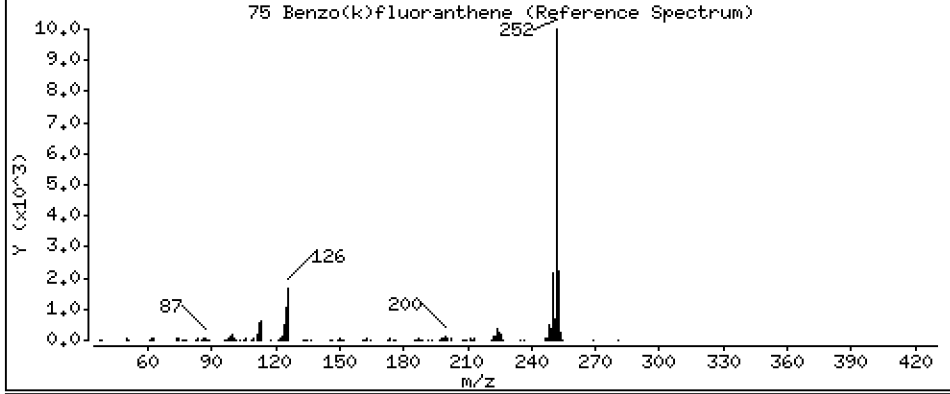
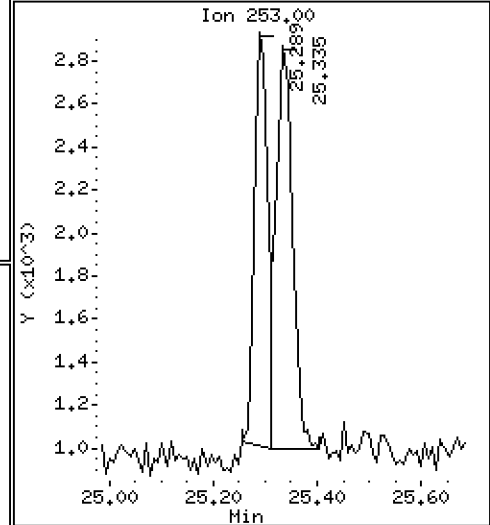
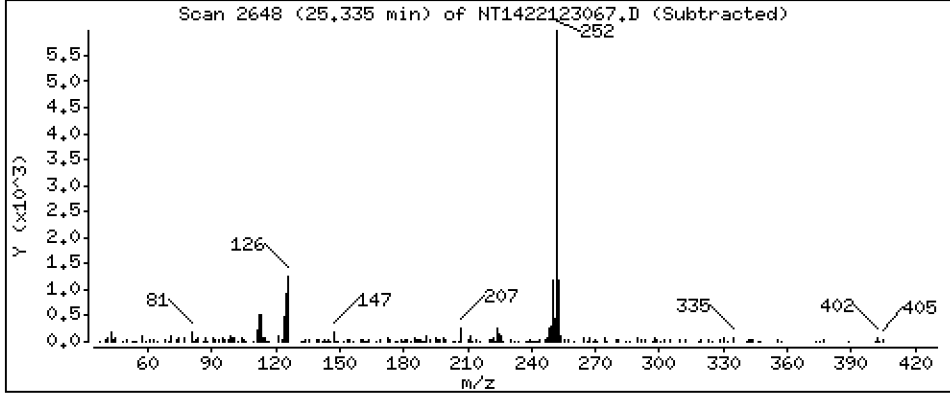
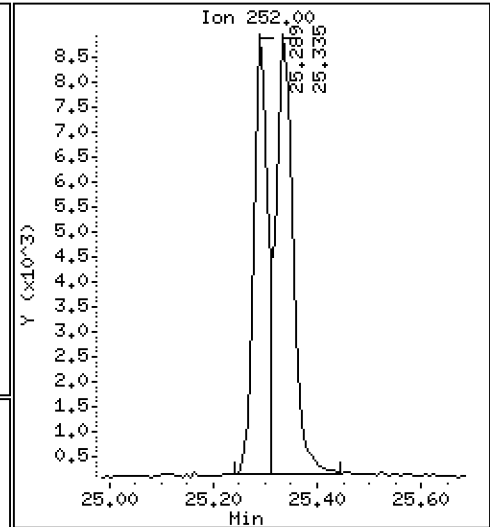
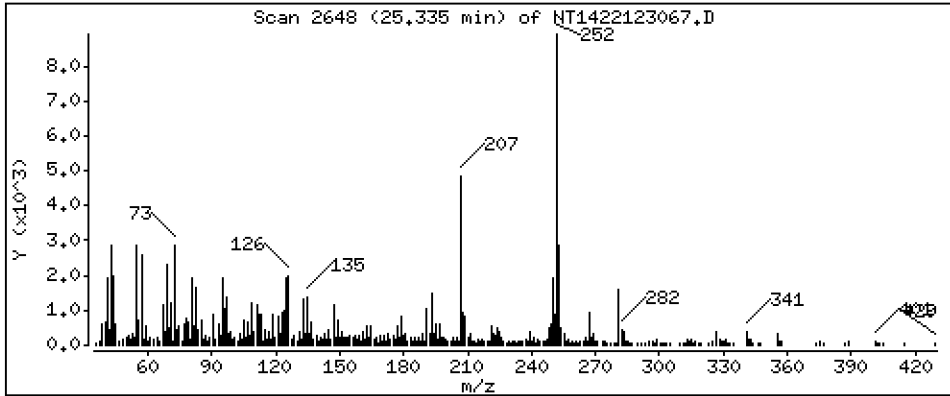
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2810 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

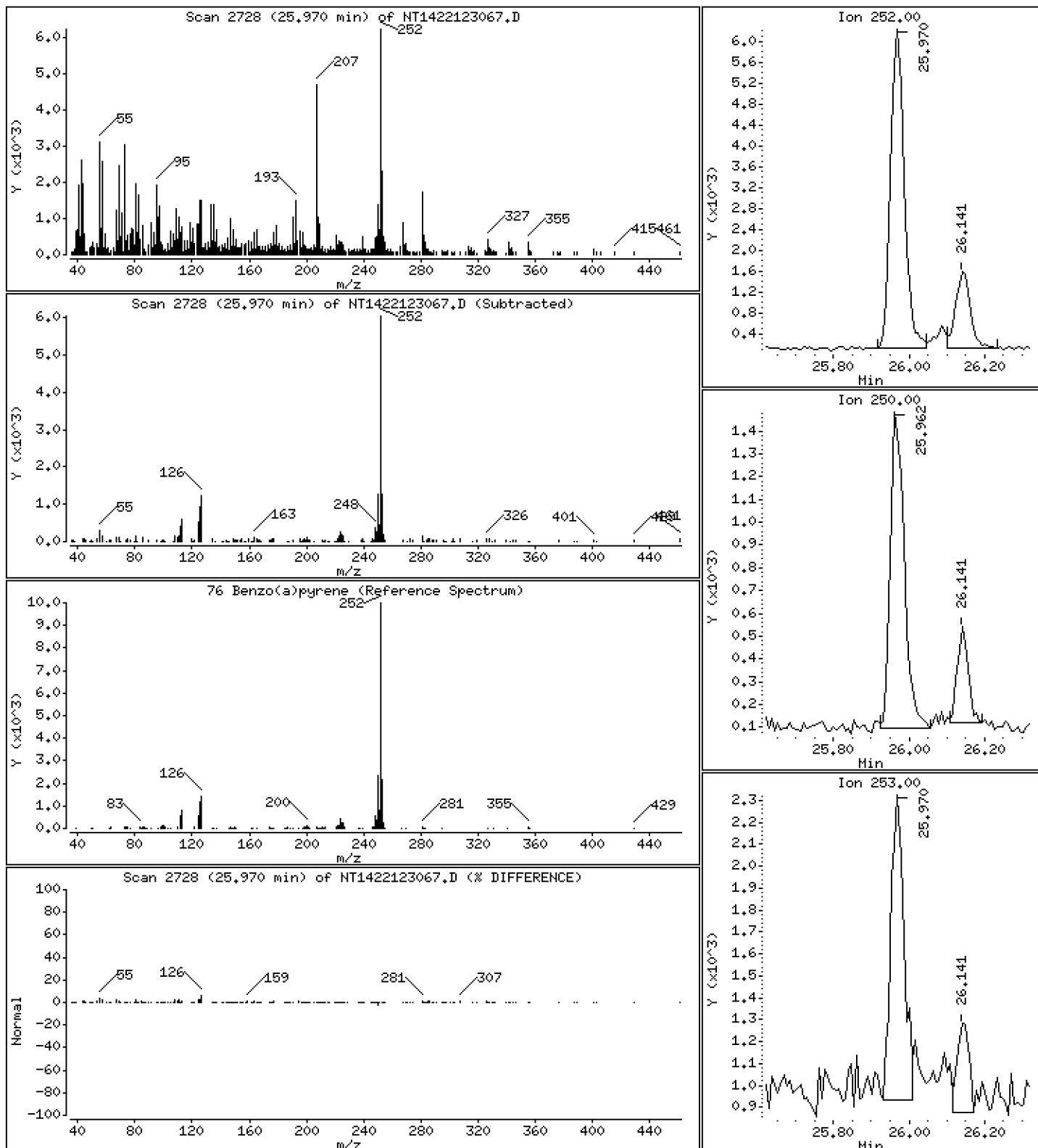
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

76 Benzo(a)pyrene

Concentration: 0.2524 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

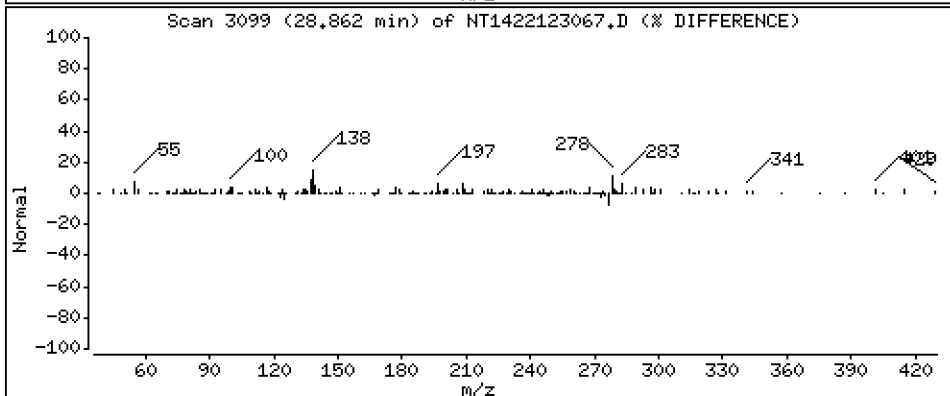
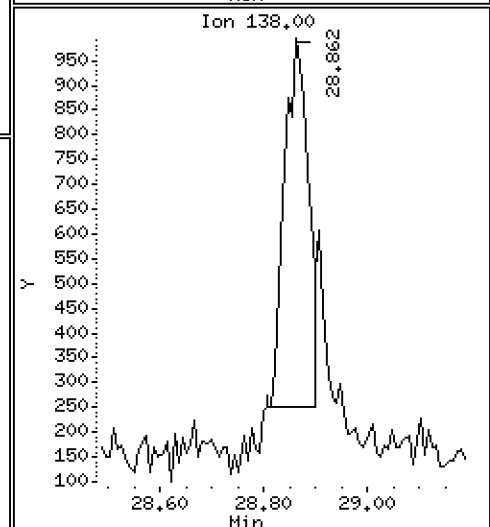
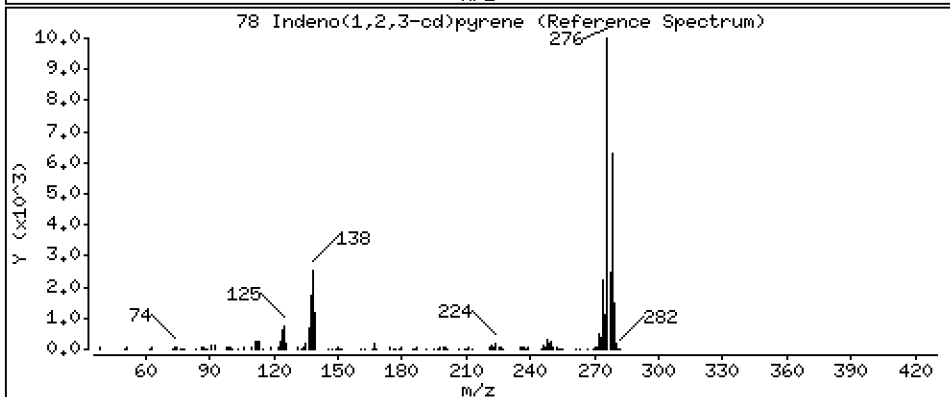
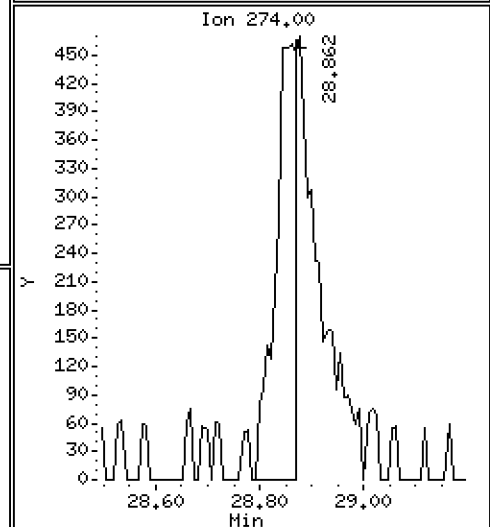
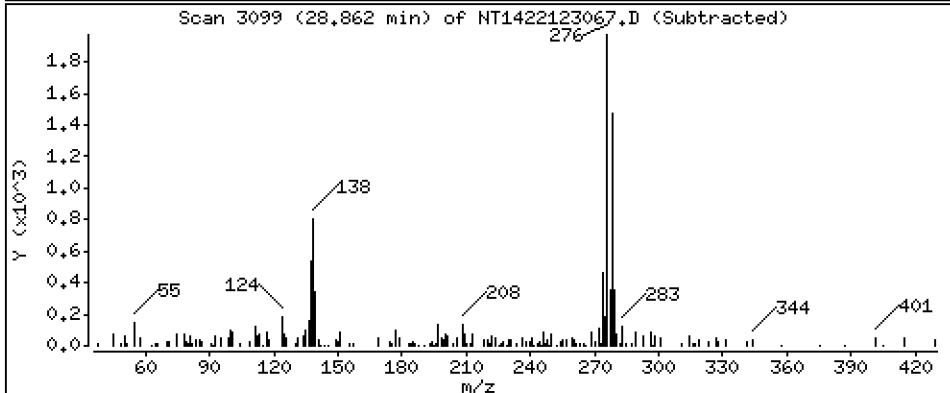
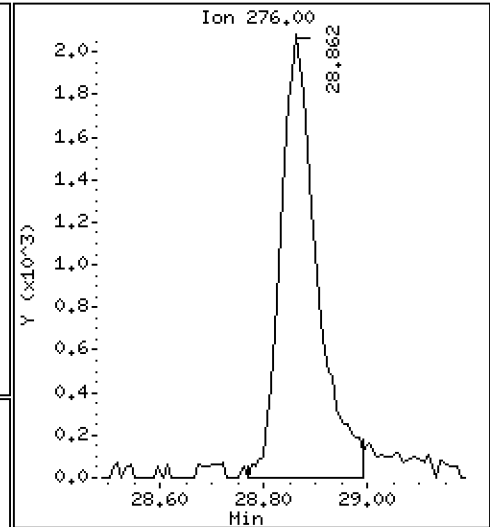
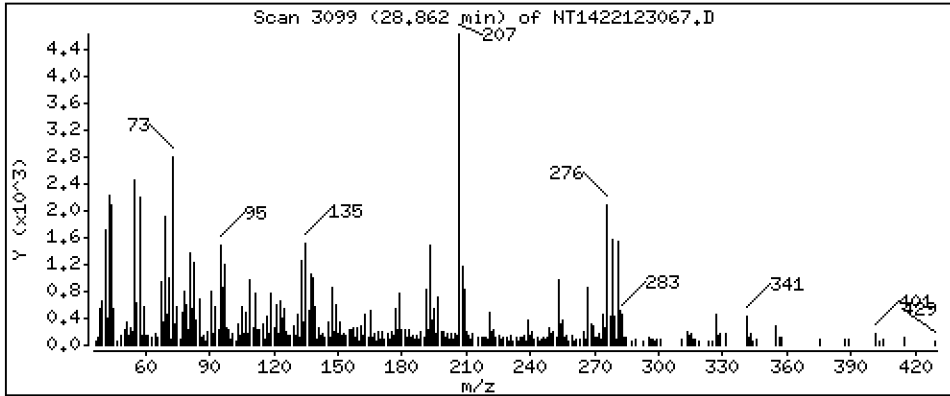
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1494 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

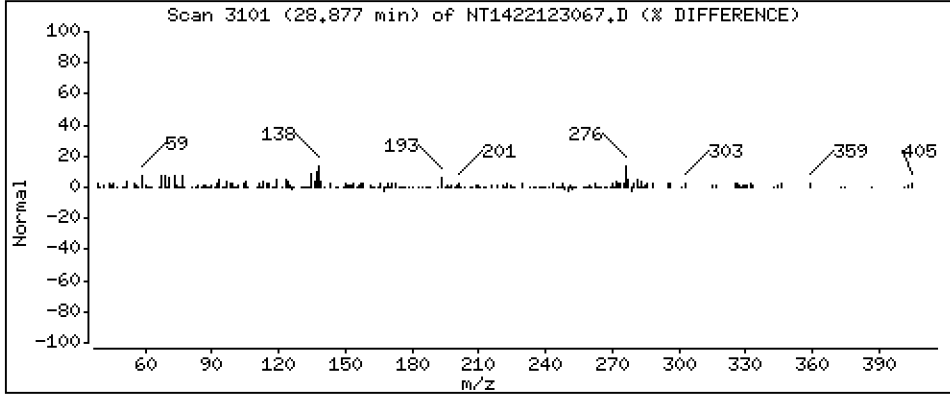
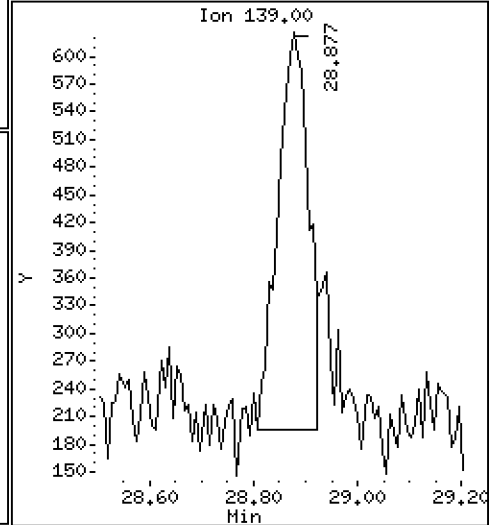
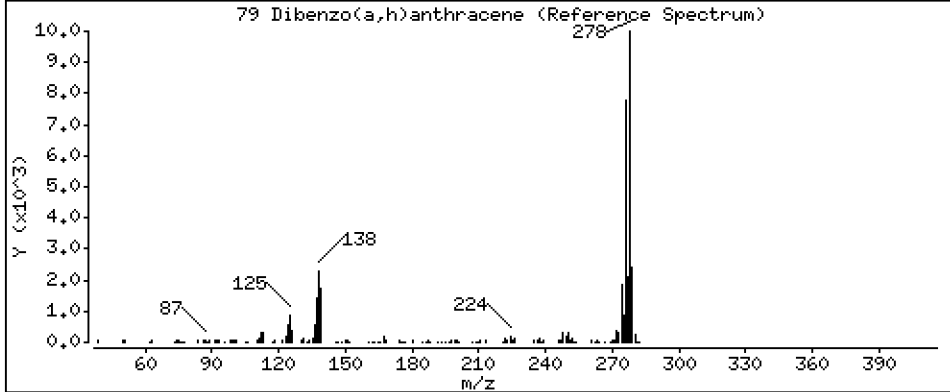
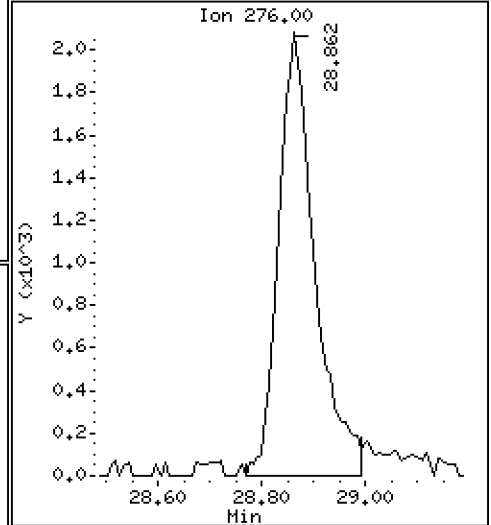
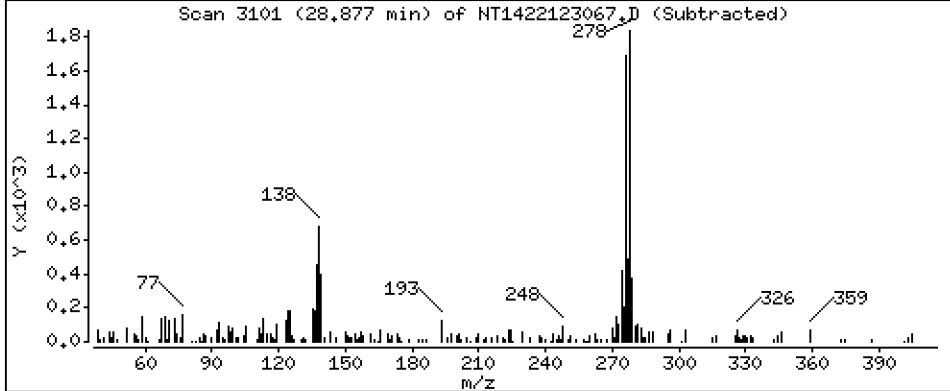
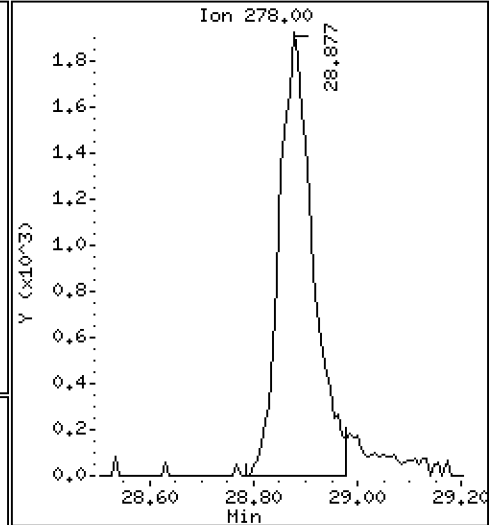
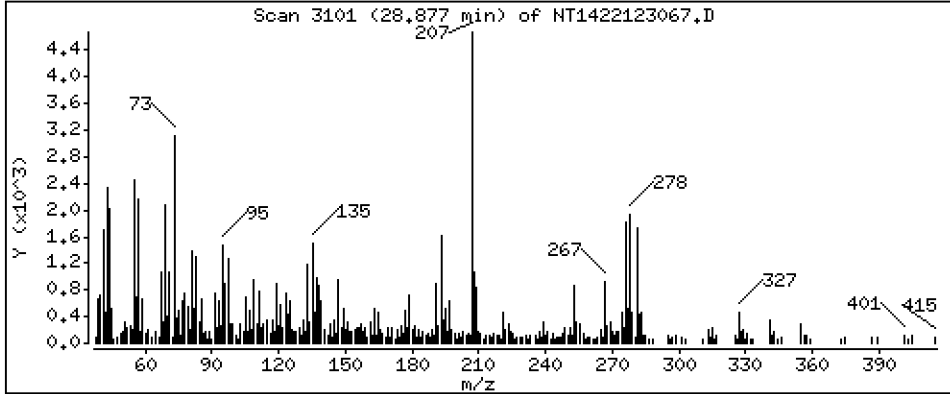
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1509 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

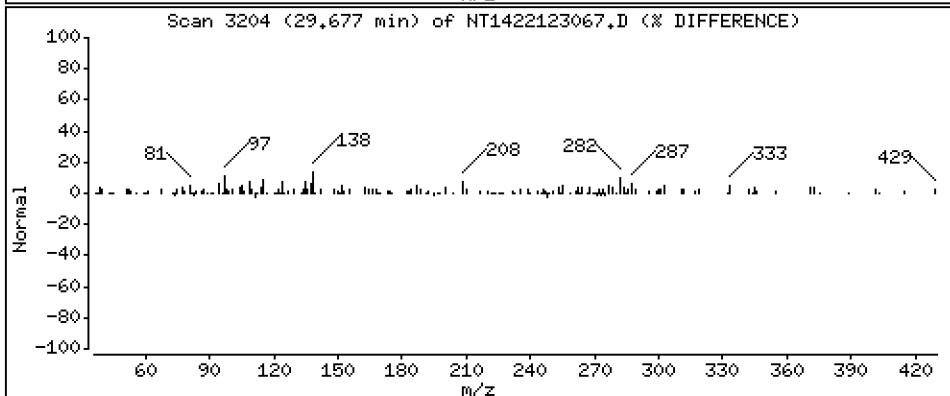
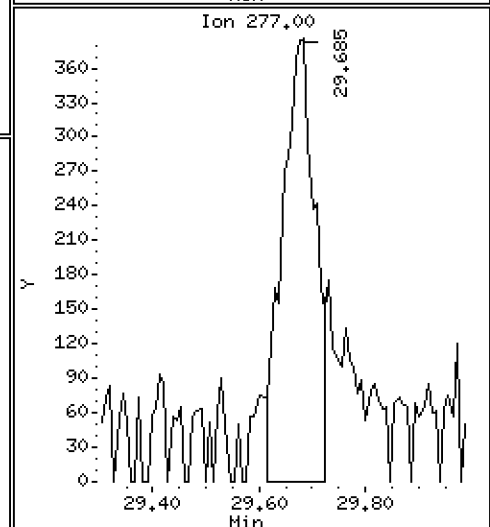
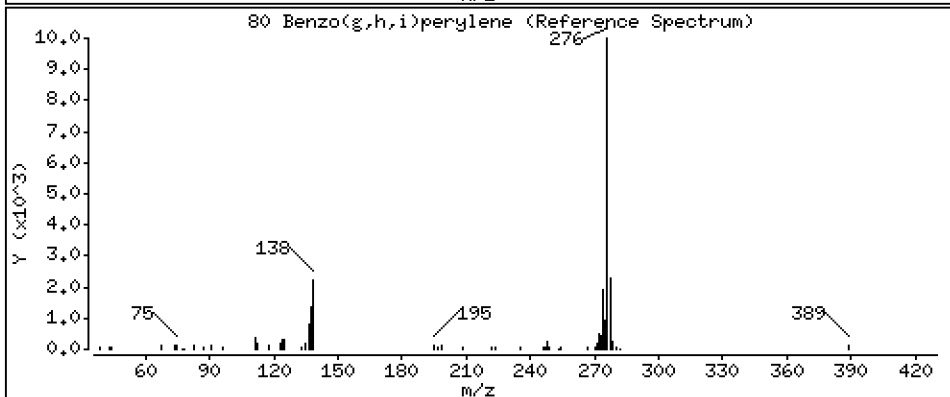
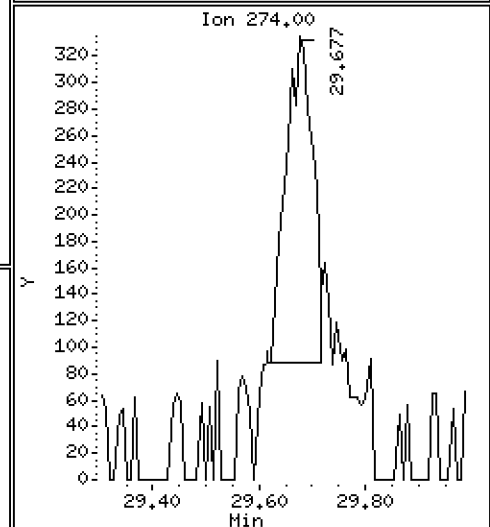
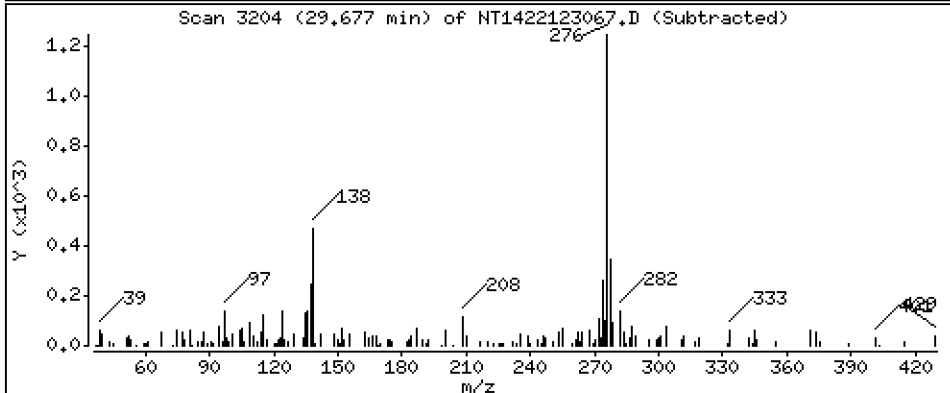
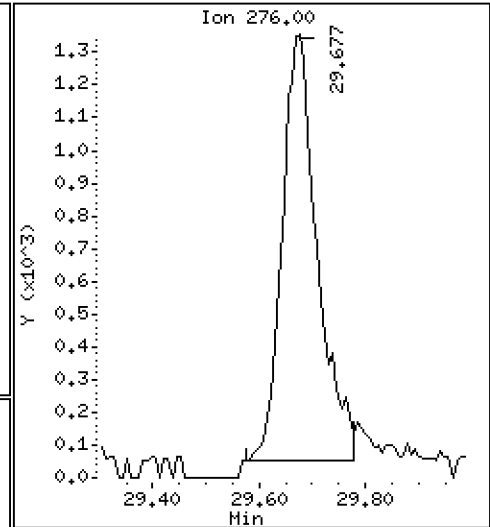
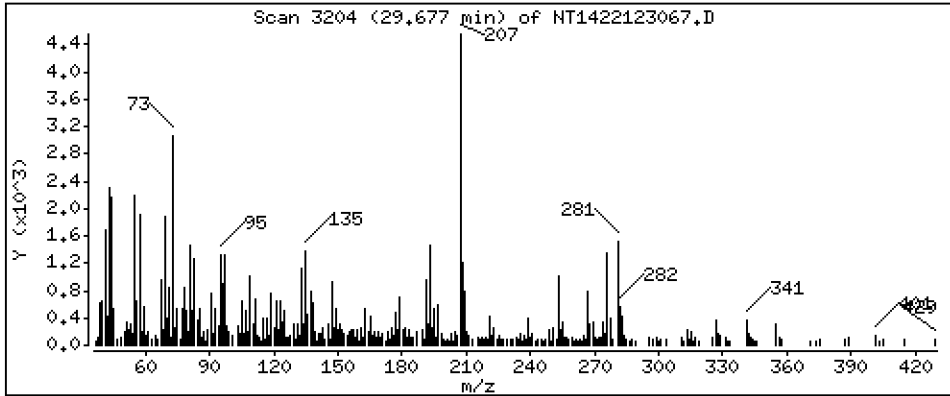
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1058 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

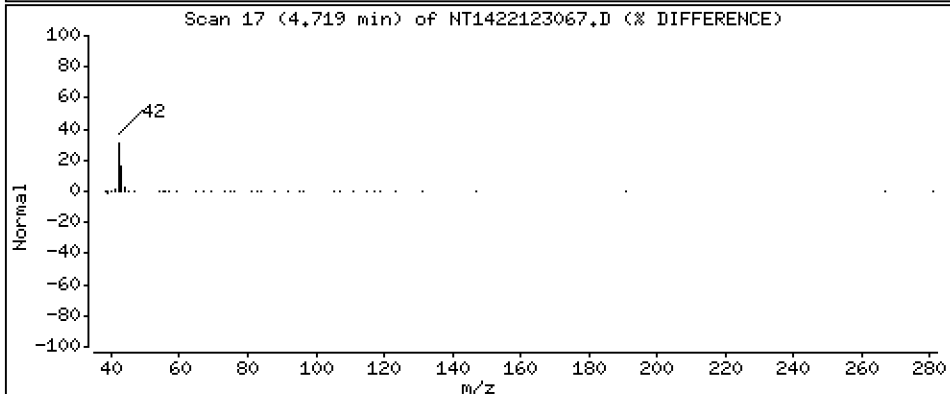
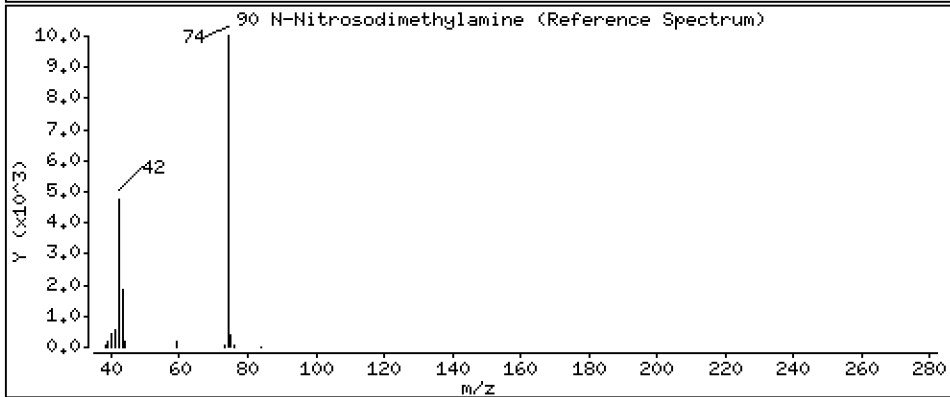
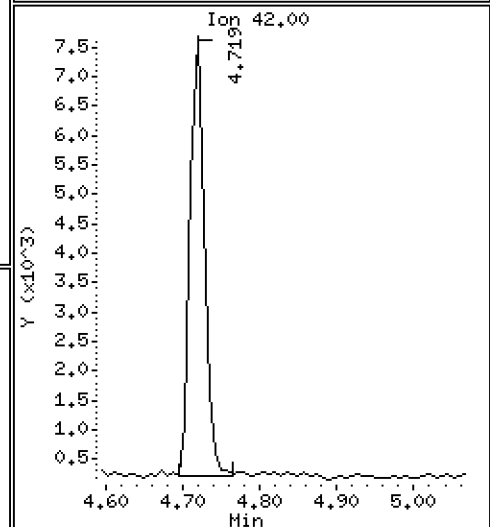
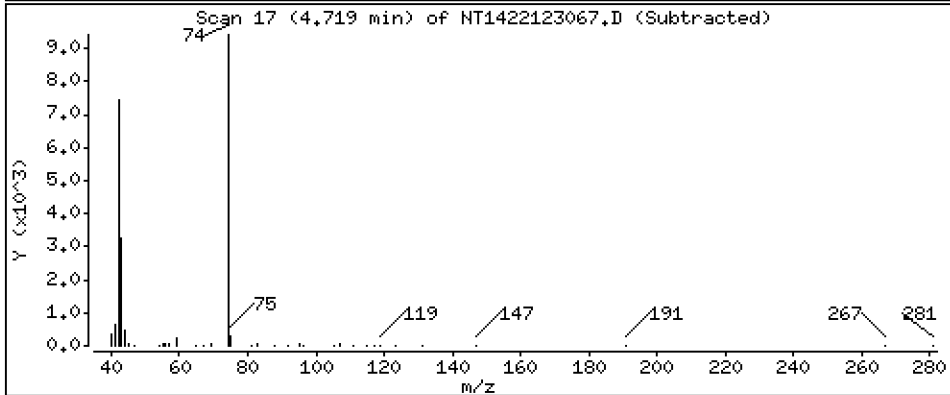
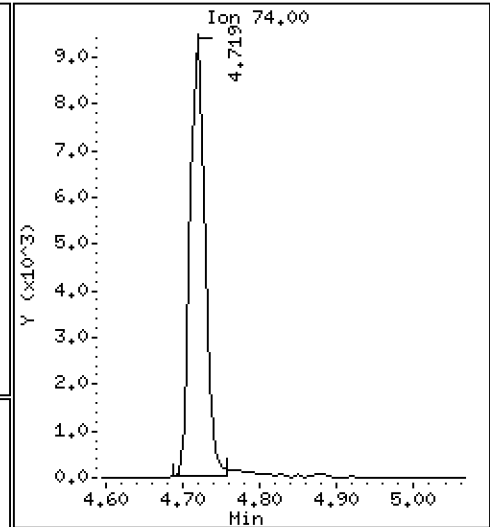
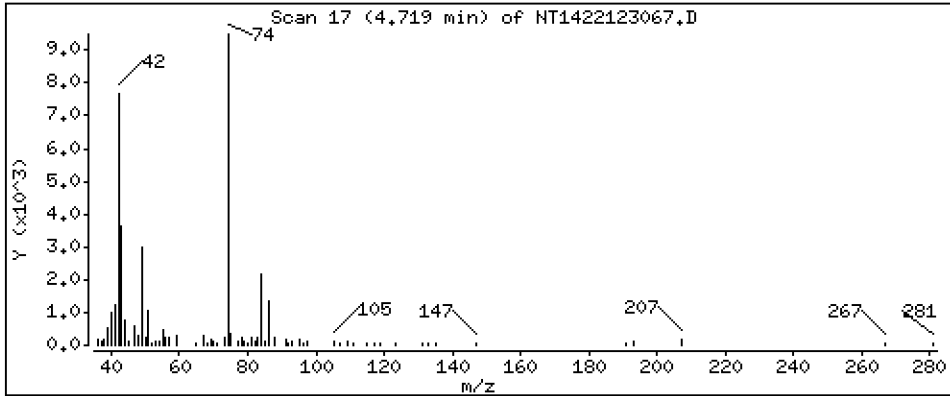
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,4928 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

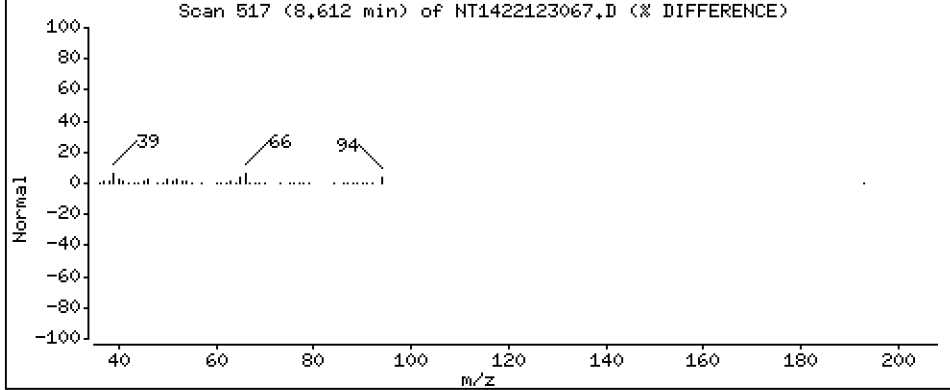
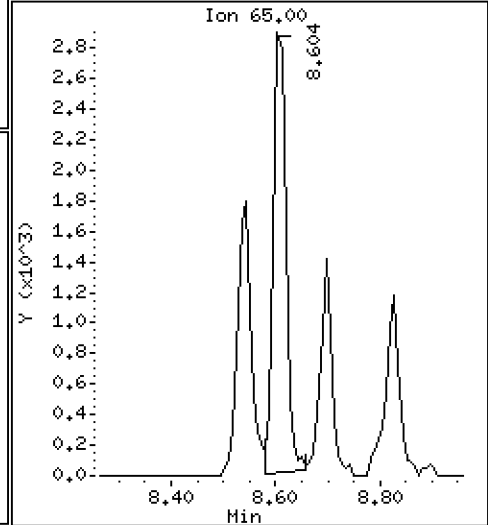
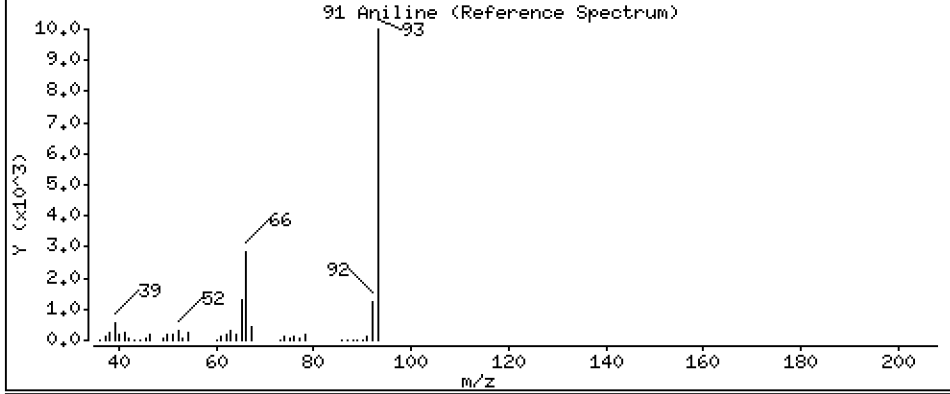
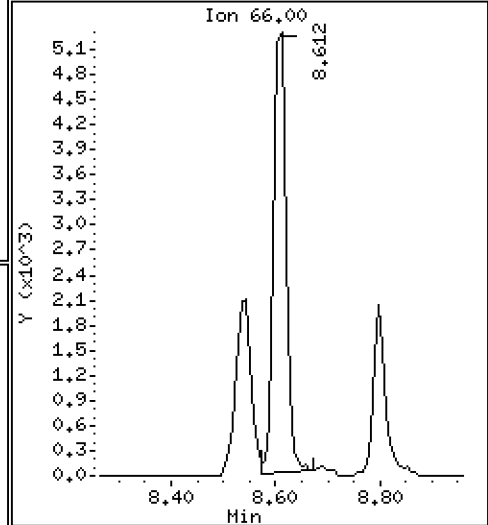
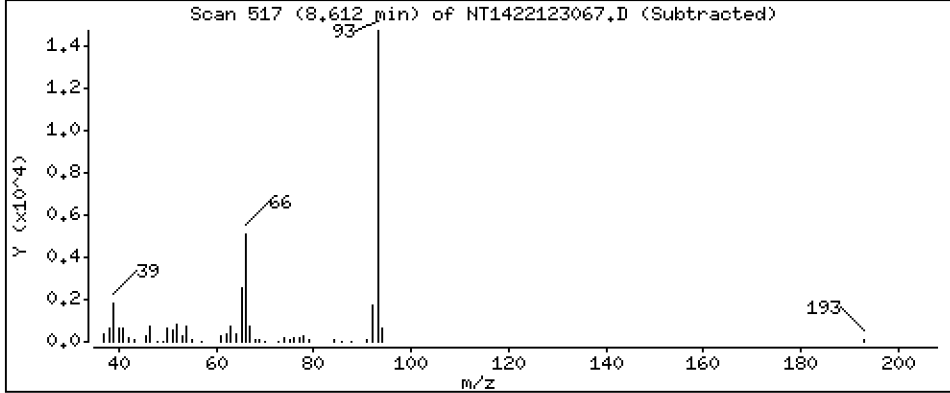
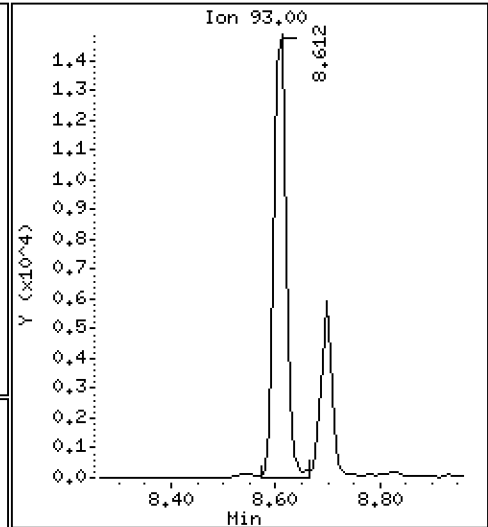
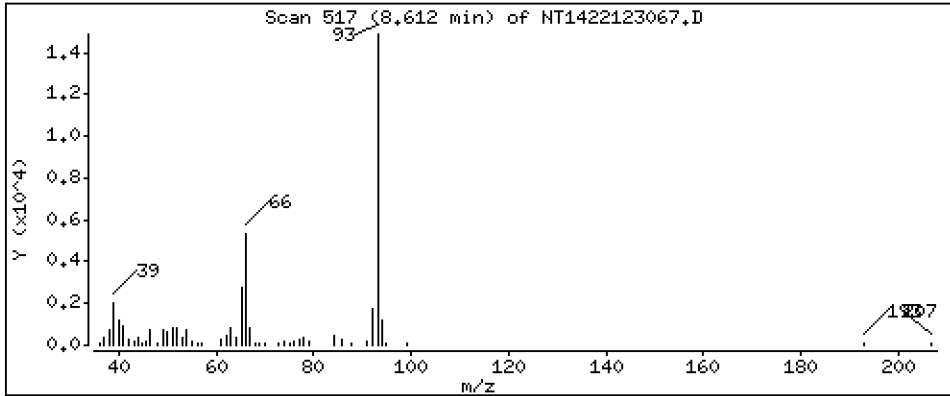
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4840 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

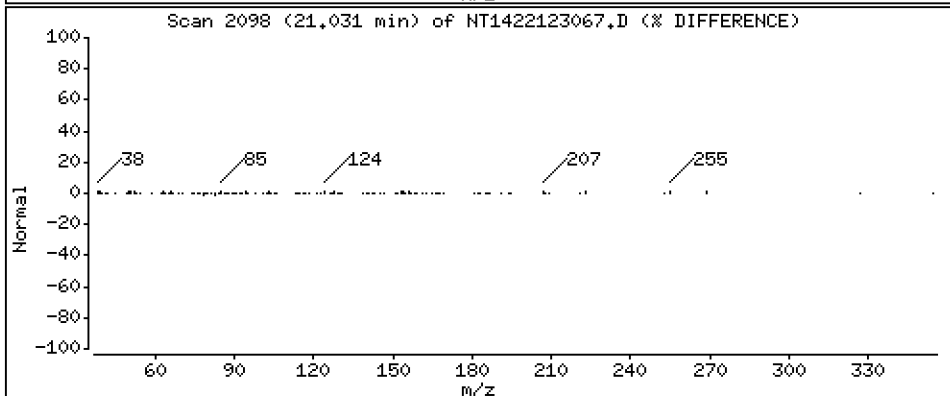
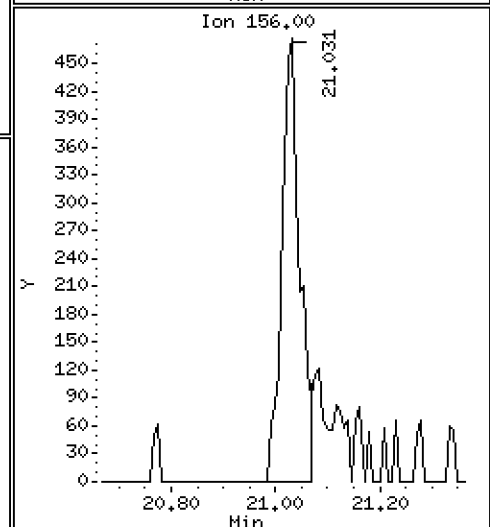
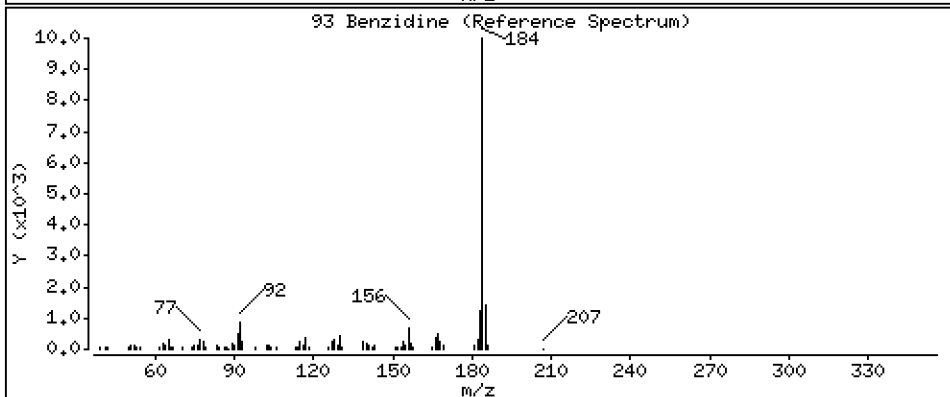
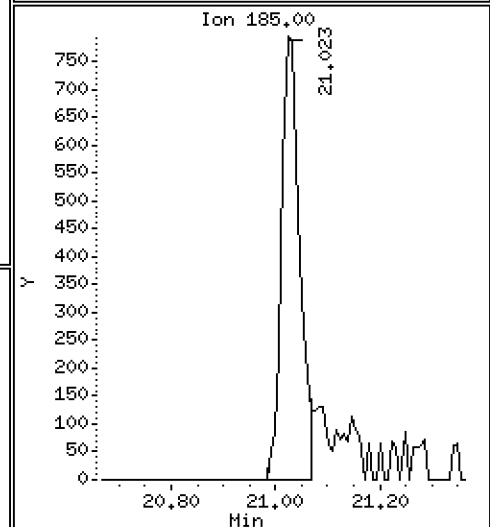
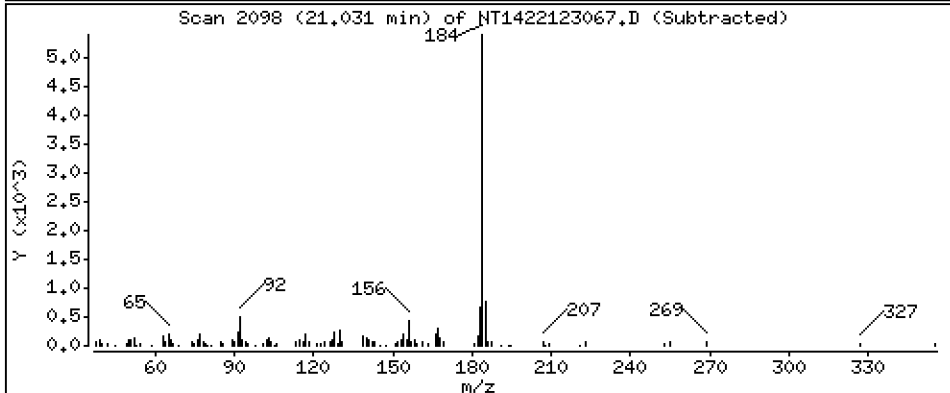
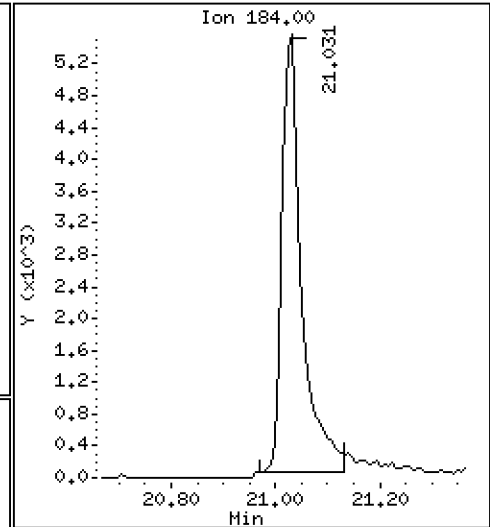
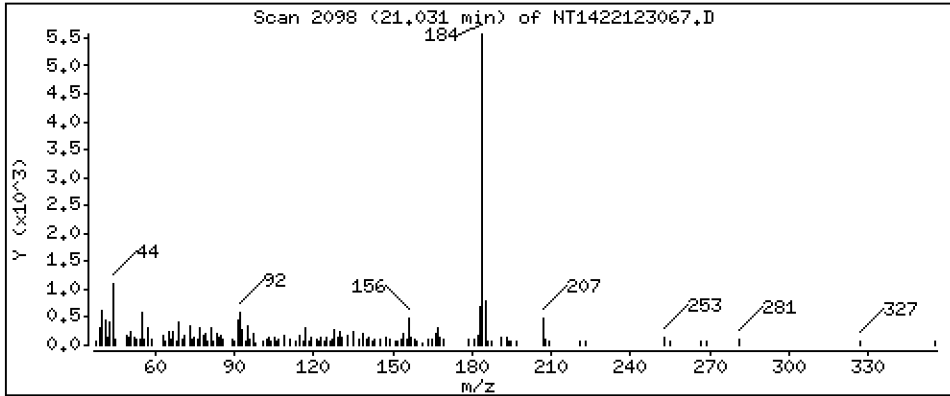
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,4312 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

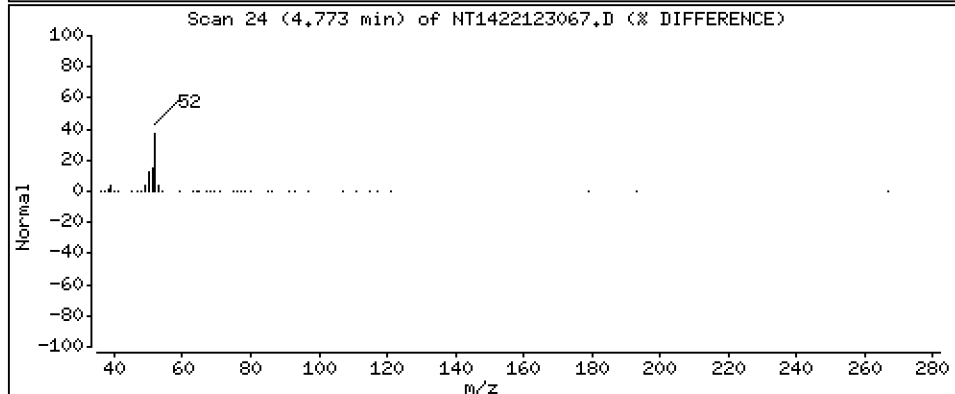
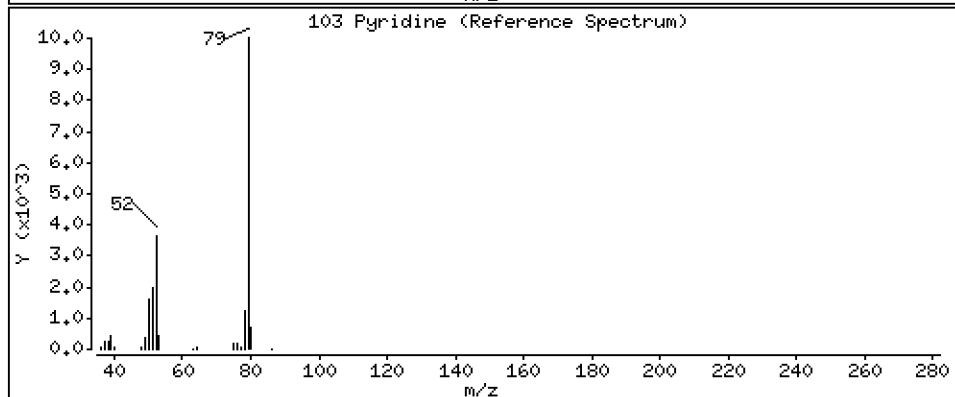
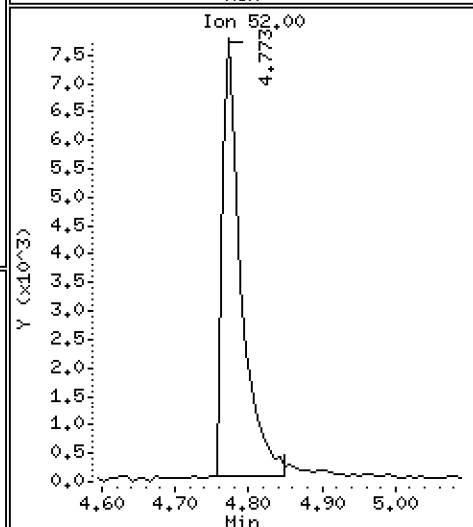
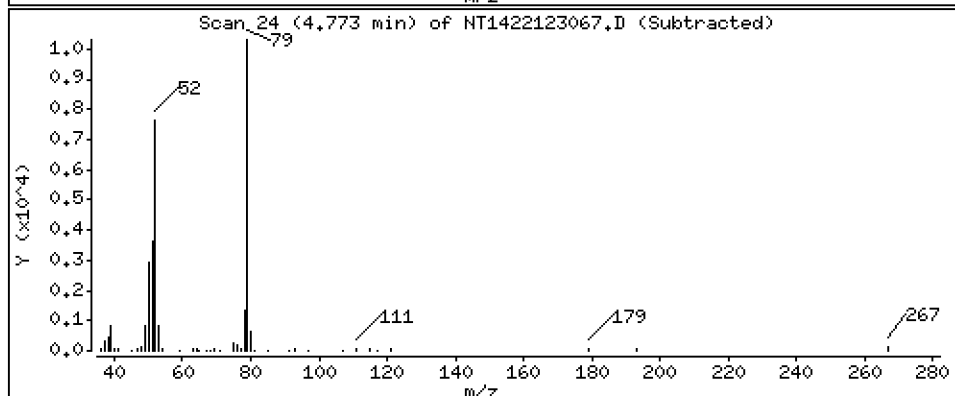
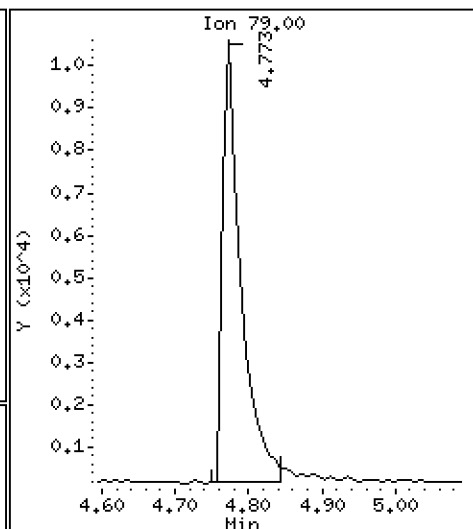
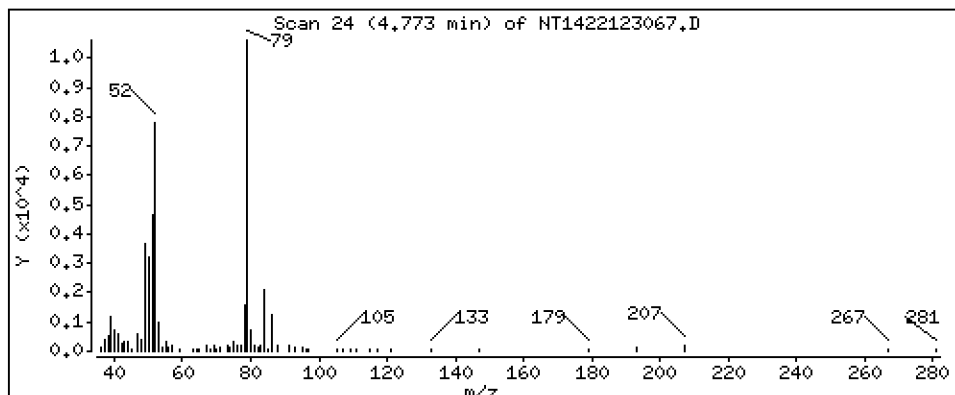
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,2348 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

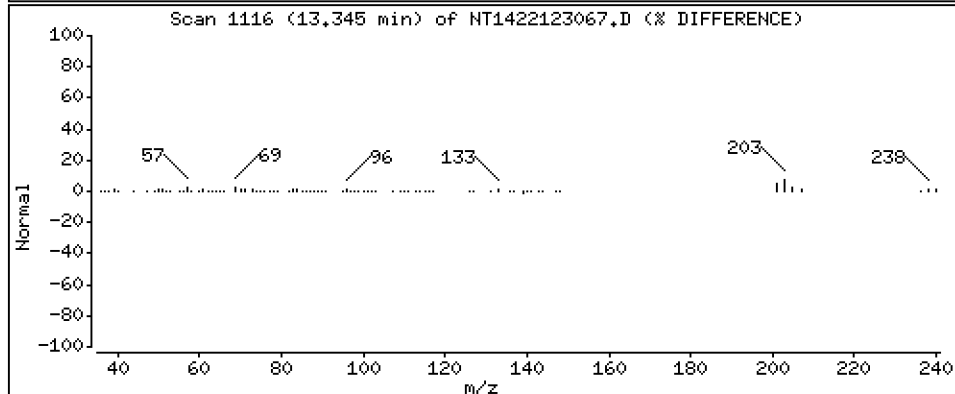
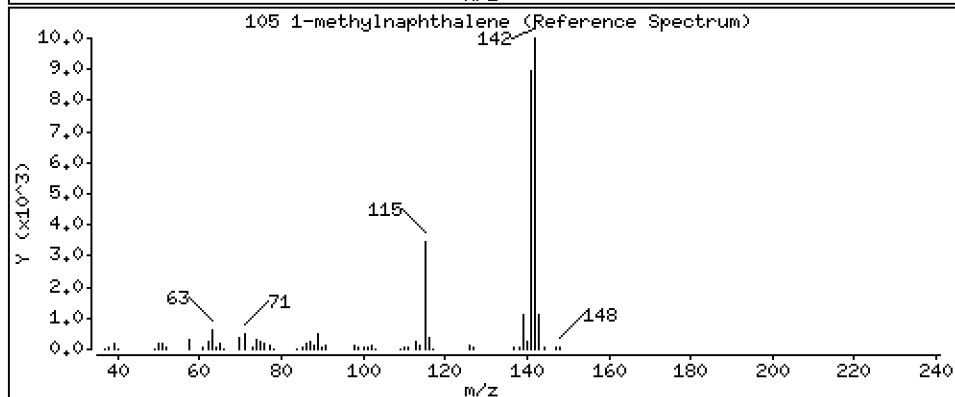
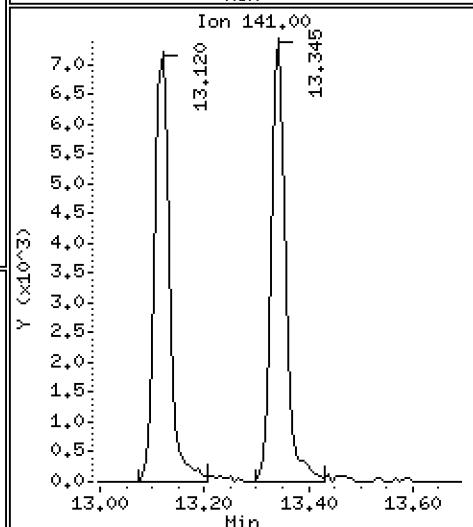
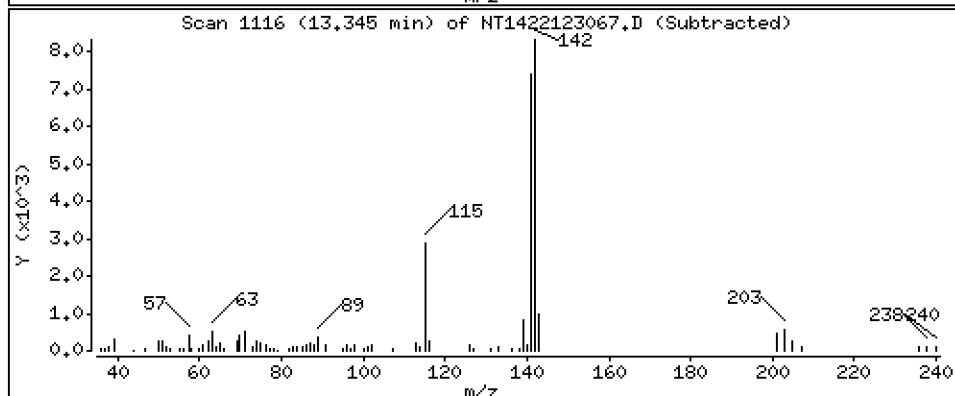
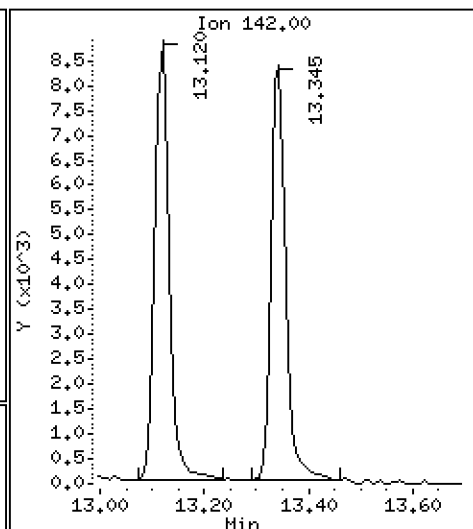
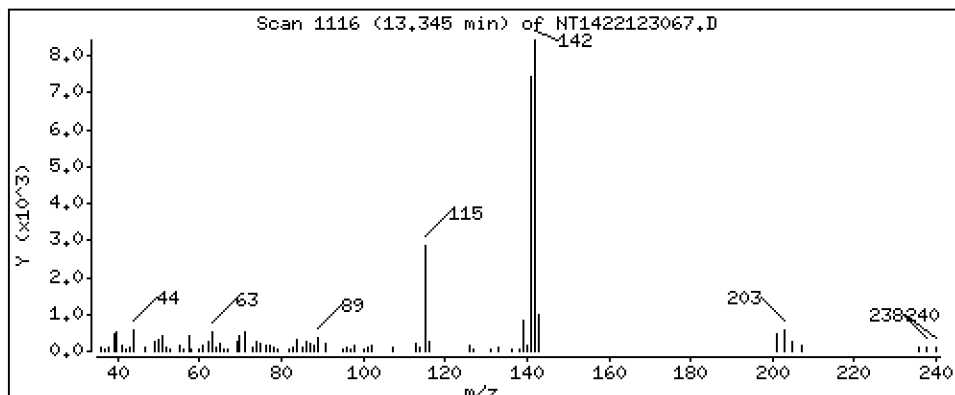
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

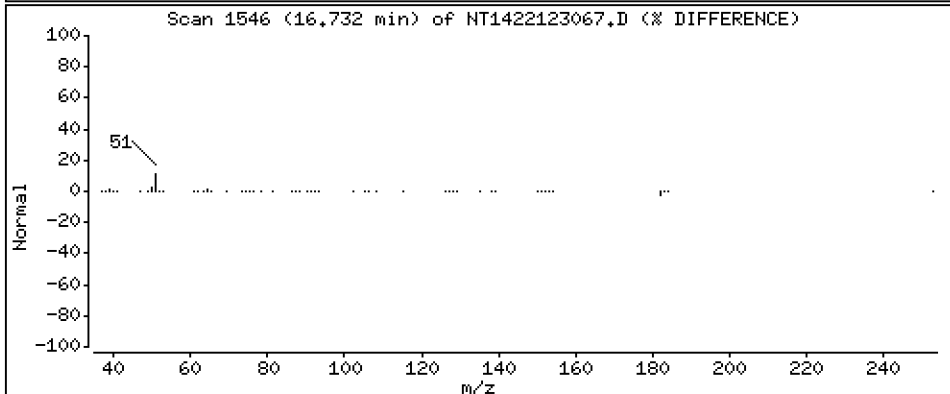
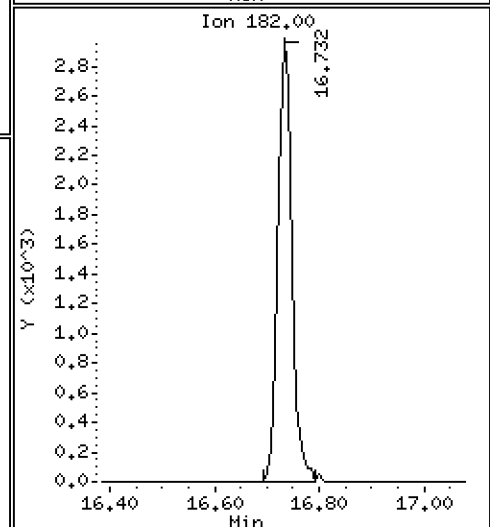
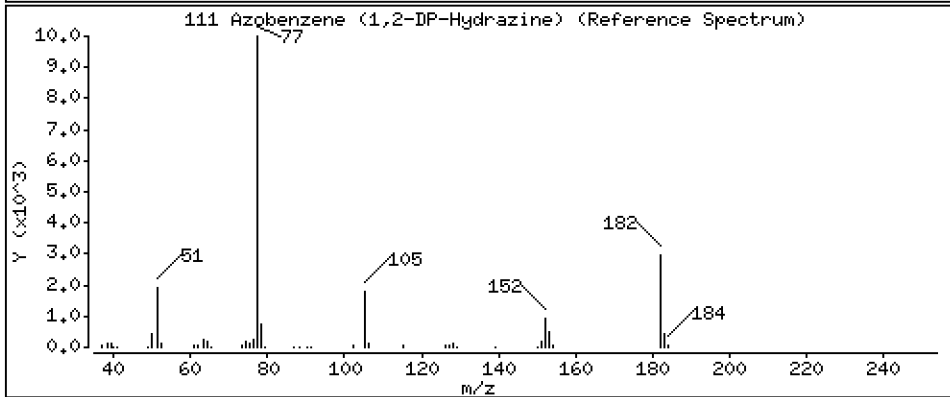
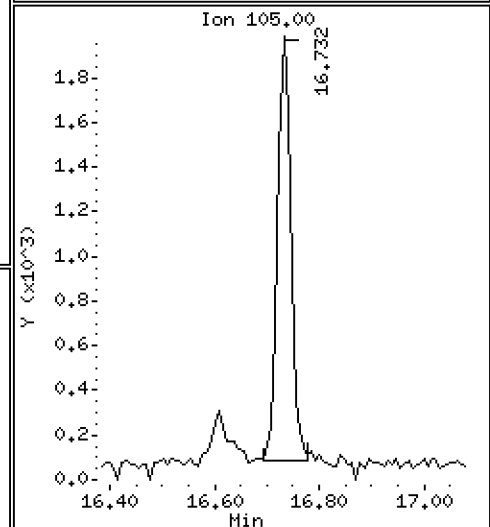
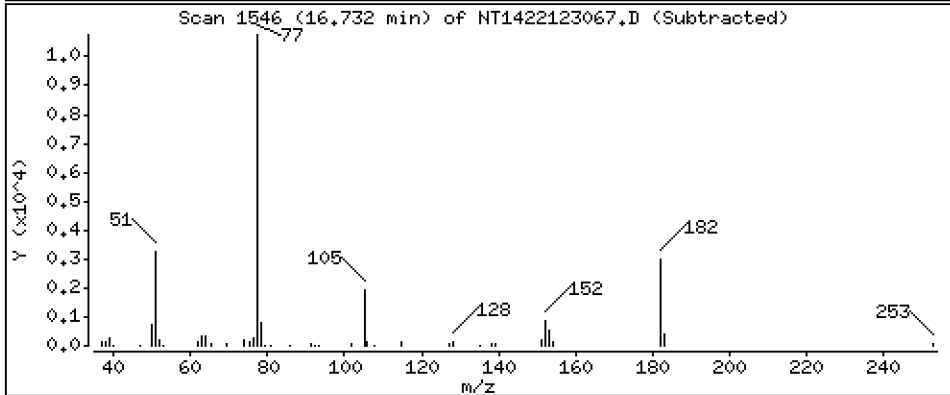
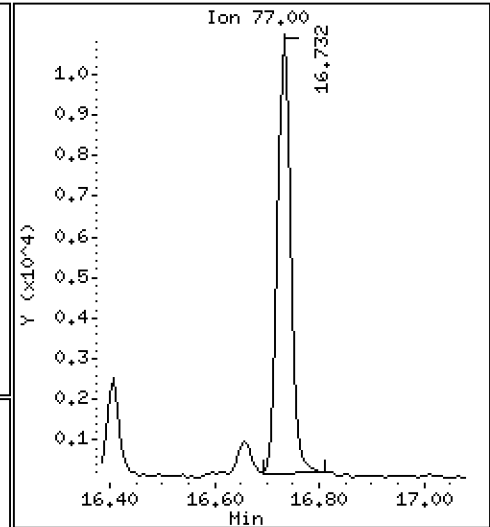
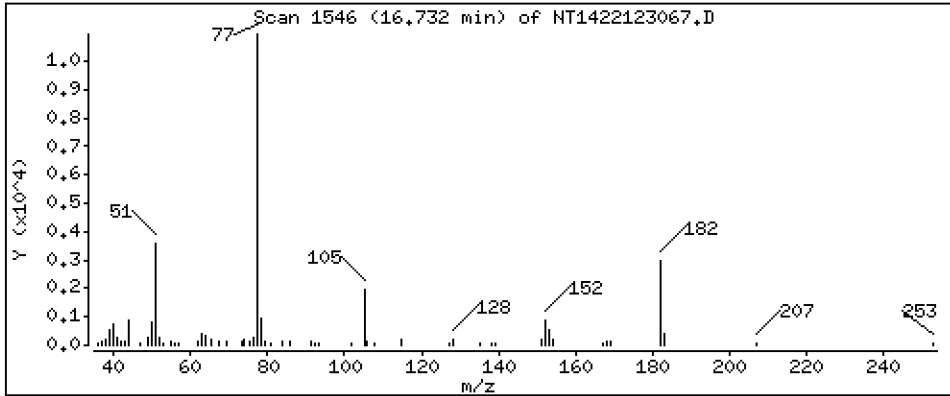
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2385 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

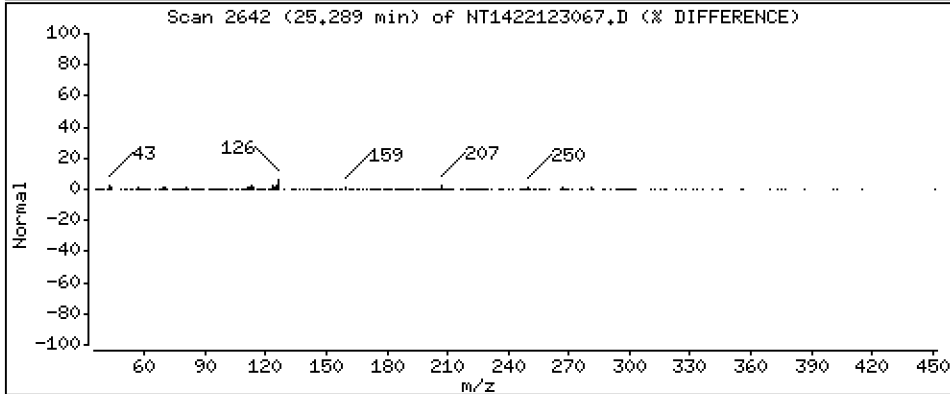
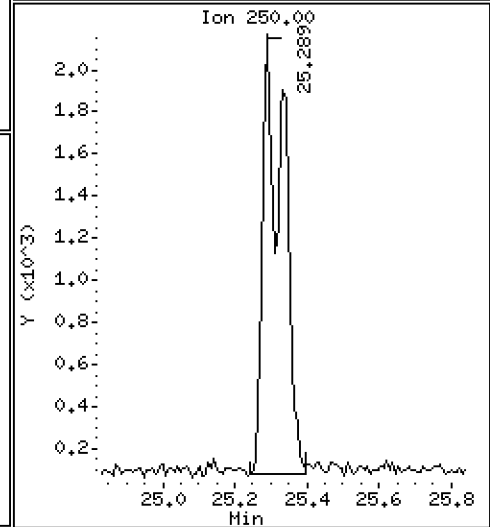
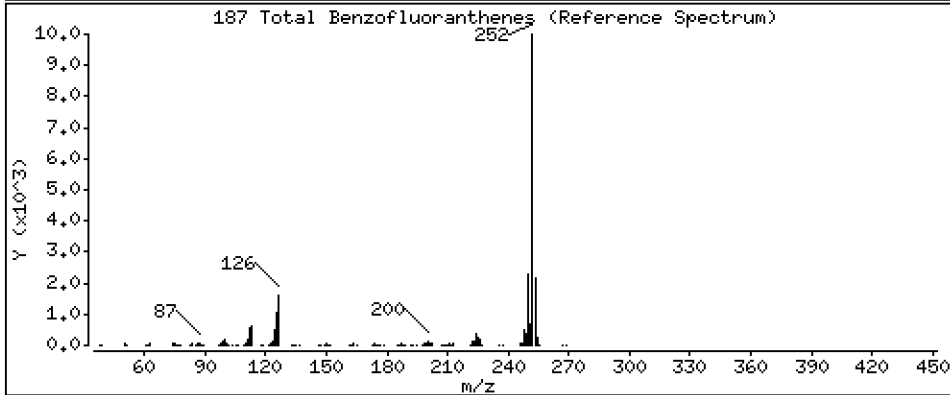
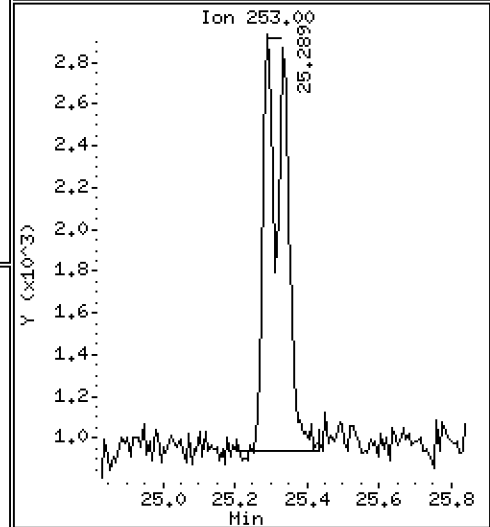
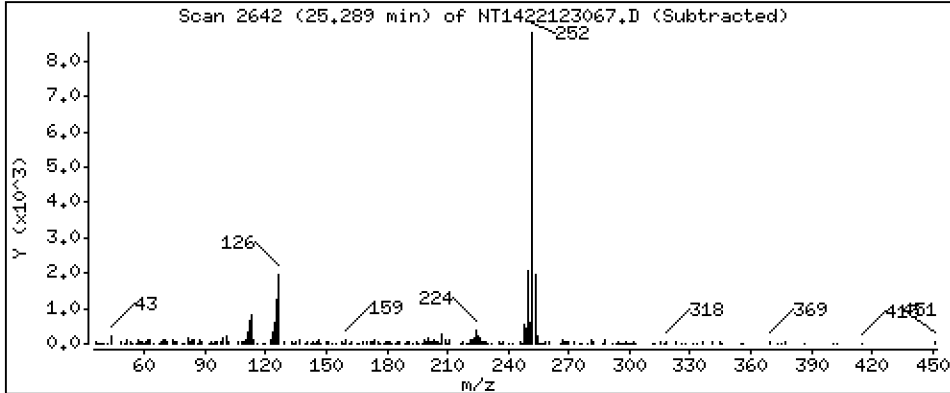
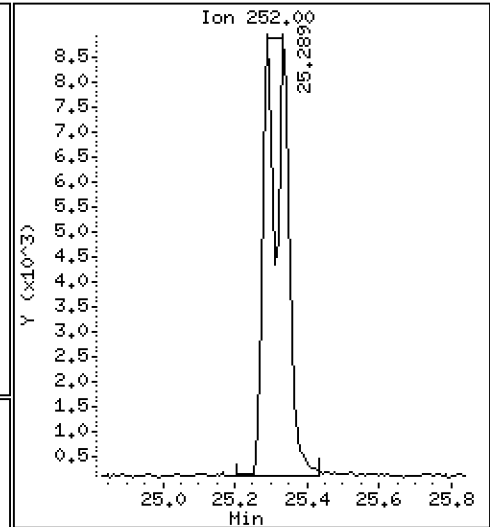
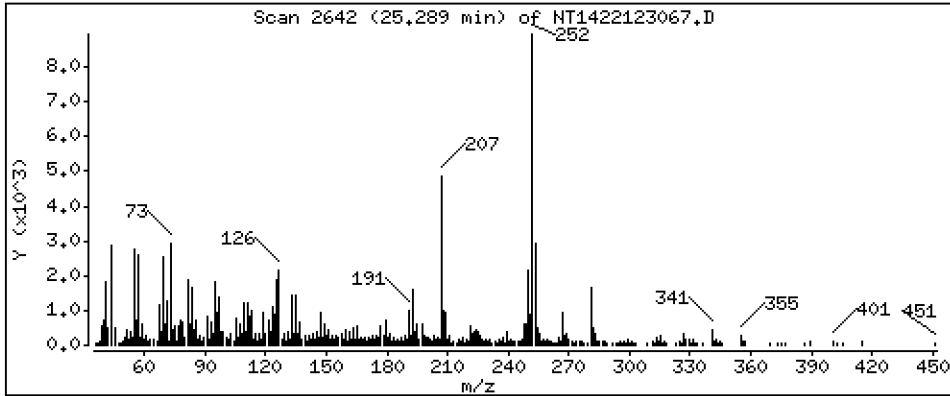
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5264 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

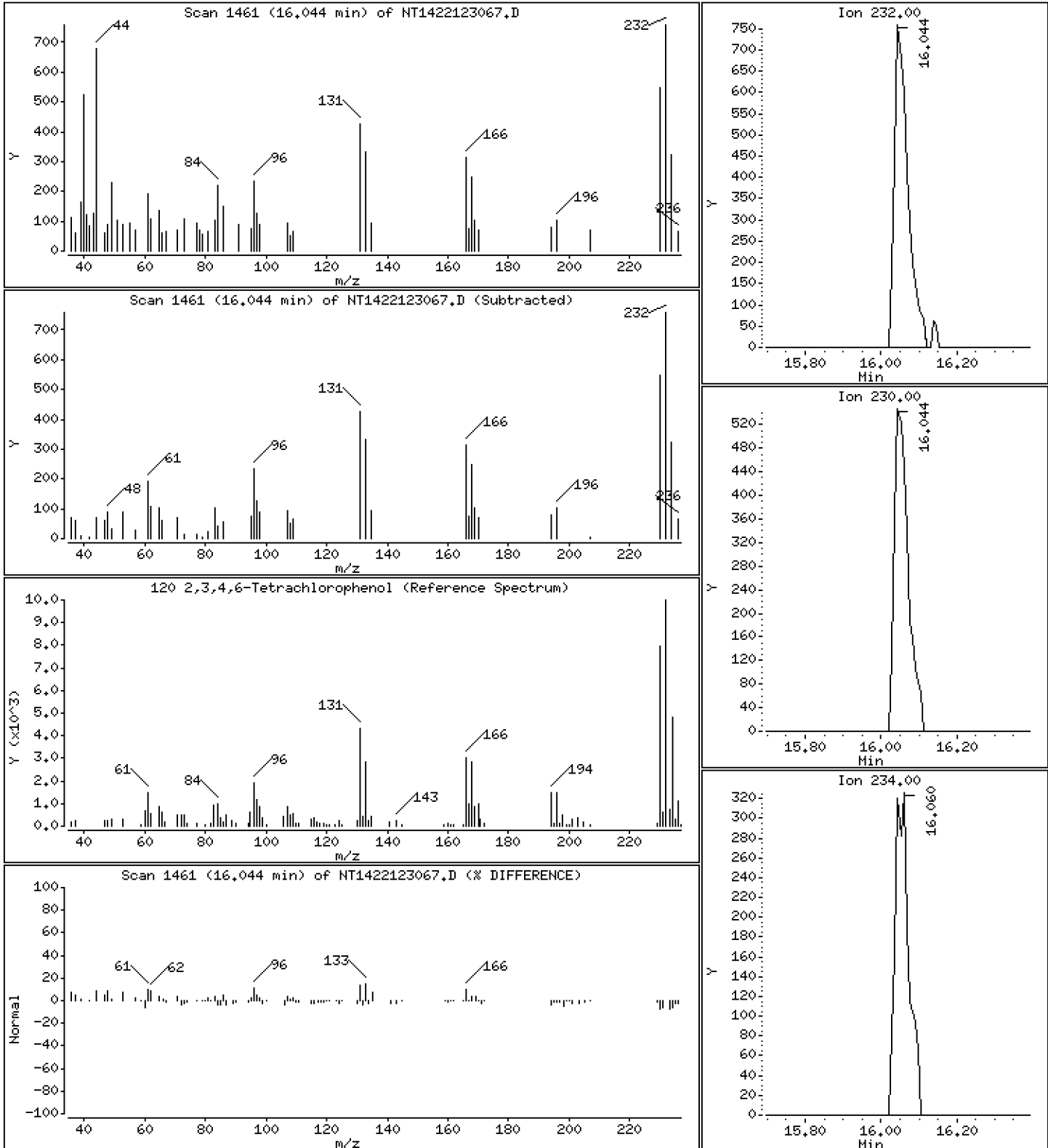
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1280 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
 Lab Smp Id: SKL0355-LCV3
 Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-LCV3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.919	(0.755)	12469	0.35660	0.3566
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	13476	0.31186	0.3119
3 Phenol	94		8.542	8.542	(0.932)	11161	0.22731	0.2273
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	12221	0.33675	0.3367
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	8093	0.23927	0.2393
6 2-Chlorophenol	128		8.827	8.827	(0.964)	9811	0.24616	0.2462
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	10440	0.24702	0.2470
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	109143	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	10018	0.25020	0.2502
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	5962	0.24036	0.2404
12 1,2-Dichlorobenzene	146		9.556	9.556	(1.043)	9504	0.24203	0.2420
11 Benzyl alcohol	108		9.440	9.440	(1.030)	3613	0.16529	0.1653 (M)
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	2767	0.24305	0.2430
13 2-Methylphenol	108		9.665	9.665	(1.055)	7875	0.22072	0.2207
17 Hexachloroethane	117		10.154	10.154	(1.108)	2915	0.19795	0.1979
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	5112	0.23520	0.2352
15 4-Methylphenol	108		9.936	9.936	(1.085)	7826	0.20792	0.2079
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.880)	7594	0.22651	0.2265
19 Nitrobenzene	77		10.293	10.301	(0.882)	7425	0.22300	0.2230
20 Isophorone	82		10.743	10.751	(0.921)	8370	0.19724	0.1972
21 2-Nitrophenol	139		10.937	10.937	(0.938)	4304	0.21163	0.2116
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	15950	0.45898	0.4590
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.959)	7789	0.23594	0.2359
24 Benzoic acid	105		11.131	11.209	(0.954)	4437	0.20974	0.2097 (M)
25 2,4-Dichlorophenol	162		11.403	11.395	(0.977)	12011	0.41003	0.4100
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	7605	0.24010	0.2401
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	397029	4.00000	
28 Naphthalene	128		11.712	11.712	(1.004)	23009	0.23549	0.2355
29 4-Chloroaniline	127		11.835	11.835	(1.015)	16324	0.40512	0.4051
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	3740	0.23799	0.2380
31 4-Chloro-3-methylphenol	107		12.826	12.810	(1.099)	11960	0.43265	0.4327
32 2-Methylnaphthalene	142		13.120	13.120	(1.125)	16268	0.22698	0.2270
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.887)	624	0.04042	0.04042

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.739	(0.898)	5867	0.34421	0.3442	
35 2,4,5-Trichlorophenol	196		13.839	13.816	(0.904)	7090	0.36041	0.3604	
§ 36 2-Fluorobiphenyl	172		13.901	13.901	(0.908)	15298	0.22280	0.2228	
37 2-Chloronaphthalene	162		14.118	14.118	(0.922)	13703	0.23460	0.2346	
38 2-Nitroaniline	65		14.381	14.373	(0.939)	6597	0.42959	0.4296	
39 Dimethylphthalate	163		14.799	14.799	(0.967)	12311	0.21377	0.2138	
40 Acenaphthylene	152		14.993	14.993	(0.979)	20407	0.22913	0.2291	
41 2,6-Dinitrotoluene	165		14.946	14.938	(0.976)	4965	0.38201	0.3820	
* 42 Acenaphthene-d10	164		15.310	15.310	(1.000)	204214	4.00000		
43 3-Nitroaniline	138		15.240	15.225	(0.995)	5629	0.35634	0.3563	
44 Acenaphthene	153		15.372	15.371	(1.004)	13024	0.23577	0.2358	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.704	15.704	(1.026)	19925	0.24053	0.2405	
47 4-Nitrophenol	109		15.665	15.557	(1.023)	2026	0.26799	0.2680 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.750	(1.029)	6043	0.33888	0.3389	
50 Diethylphthalate	149		16.260	16.268	(1.062)	20315	0.25952	0.2595	
49 Fluorene	166		16.423	16.423	(1.073)	20566	0.23337	0.2334	
51 4-Chlorophenyl-phenylether	204		16.407	16.407	(1.072)	9124	0.21148	0.2115	
52 4-Nitroaniline	138		16.531	16.500	(1.080)	7107	0.37385	0.3738 (M)	
53 4,6-Dinitro-2-methylphenol	198		16.608	16.600	(0.905)	1281	0.09261	0.09261	
54 N-Nitrosodiphenylamine	169		16.654	16.654	(0.907)	14191	0.25087	0.2509	
§ 55 2,4,6-Tribromophenol	330		16.955	16.955	(1.107)	2149	0.22461	0.2246	
56 4-Bromophenyl-phenylether	248		17.417	17.410	(0.949)	4781	0.22320	0.2232	
57 Hexachlorobenzene	284		17.734	17.734	(0.966)	5567	0.23683	0.2368	
58 Pentachlorophenol	266		18.106	18.090	(0.986)	206	0.02024	0.02024 (M)	
* 59 Phenanthrene-d10	188		18.361	18.361	(1.000)	329657	4.00000		
60 Phenanthrene	178		18.408	18.408	(1.003)	20593	0.23959	0.2396	
61 Anthracene	178		18.500	18.500	(1.008)	19055	0.23223	0.2322	
62 Carbazole	167		18.841	18.825	(1.026)	18308	0.23080	0.2308	
63 Di-n-butylphthalate	149		19.615	19.614	(1.068)	20354	0.22726	0.2273	
64 Fluoranthene	202		20.791	20.791	(0.889)	20667	0.23809	0.2381	
65 Pyrene	202		21.216	21.216	(0.907)	21300	0.23339	0.2334	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.919)	14382	0.22224	0.2222	
67 Butylbenzylphthalate	149		22.408	22.408	(0.958)	9292	0.26989	0.2699	
68 Benzo(a)anthracene	228		23.368	23.376	(0.999)	21552	0.26391	0.2639	
* 69 Chrysene-d12	240		23.399	23.399	(1.000)	269585	4.00000		
70 3,3'-Dichlorobenzidine	252		23.322	23.322	(0.997)	20482	0.81929	0.8193	
71 Chrysene	228		23.446	23.446	(1.002)	18735	0.24287	0.2429	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.430	(0.959)	13030	0.26109	0.2611	
* 134 Di-n-octylphthalate-d4	153		24.421	24.421	(1.000)	449369	4.00000		
73 Di-n-octylphthalate	149		24.429	24.429	(1.000)	26527	0.24592	0.2459	
74 Benzo(b)fluoranthene	252		25.288	25.296	(0.969)	17280	0.24137	0.2414	
75 Benzo(k)fluoranthene	252		25.335	25.335	(0.971)	20473	0.28097	0.2810	
76 Benzo(a)pyrene	252		25.970	25.970	(0.996)	15021	0.25240	0.2524	
* 77 Perylene-d12	264		26.086	26.086	(1.000)	227797	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.861	28.838	(1.106)	10107	0.14940	0.1494	
79 Dibenzo(a,h)anthracene	278		28.877	28.853	(1.107)	8673	0.15086	0.1509	
80 Benzo(g,h,i)perylene	276		29.677	29.653	(1.138)	5996	0.10580	0.1058	
90 N-Nitrosodimethylamine	74		4.718	4.718	(0.515)	11868	0.49283	0.4928	
91 Aniline	93		8.611	8.611	(0.940)	23141	0.48403	0.4840	
93 Benzidine	184		21.030	21.015	(0.899)	14240	0.43116	0.4312	
103 Pyridine	79		4.772	4.741	(0.521)	17969	0.23482	0.2348	
105 1-methylnaphthalene	142		13.344	13.344	(1.144)	15653	0.22730	0.2273	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.731	16.731	(1.093)	18088	0.23851	0.2385	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123067.D Calibration Time: 23:30
 Lab Smp Id: SKL0355-LCV3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 00:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

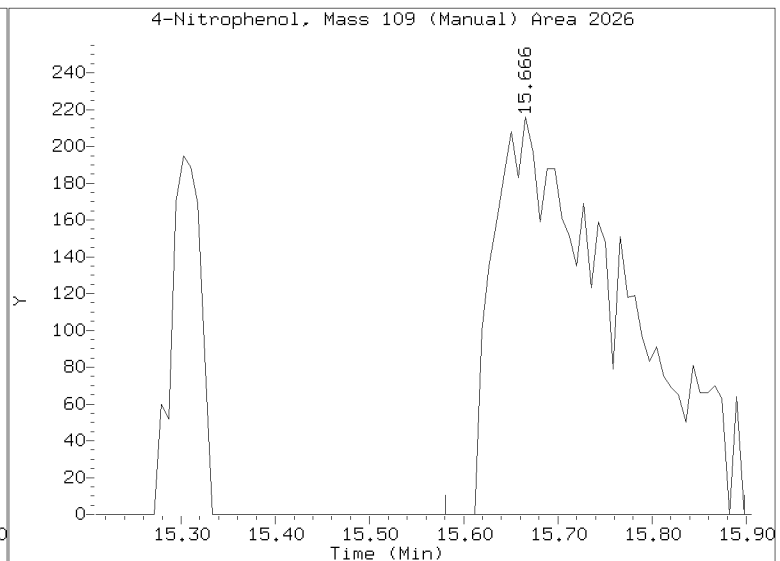
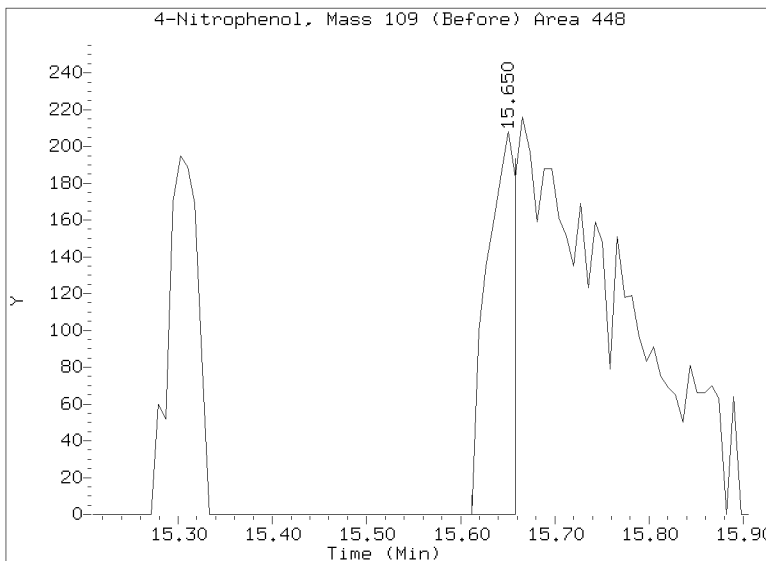
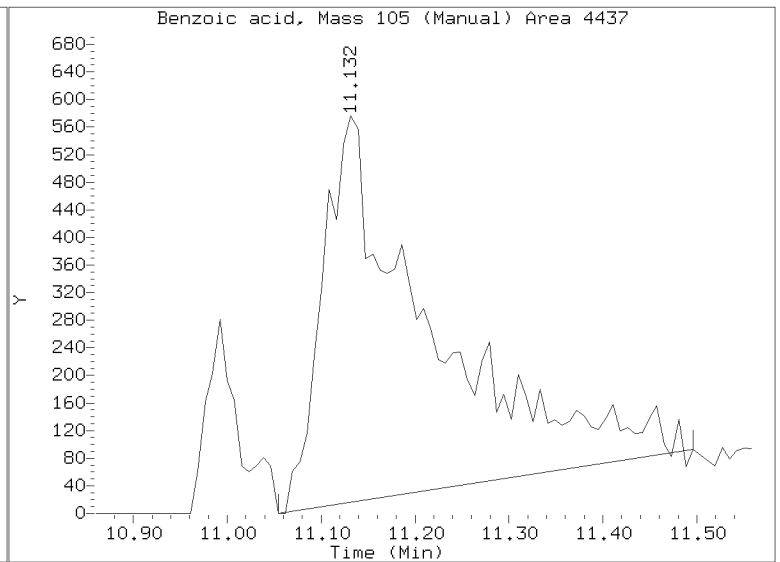
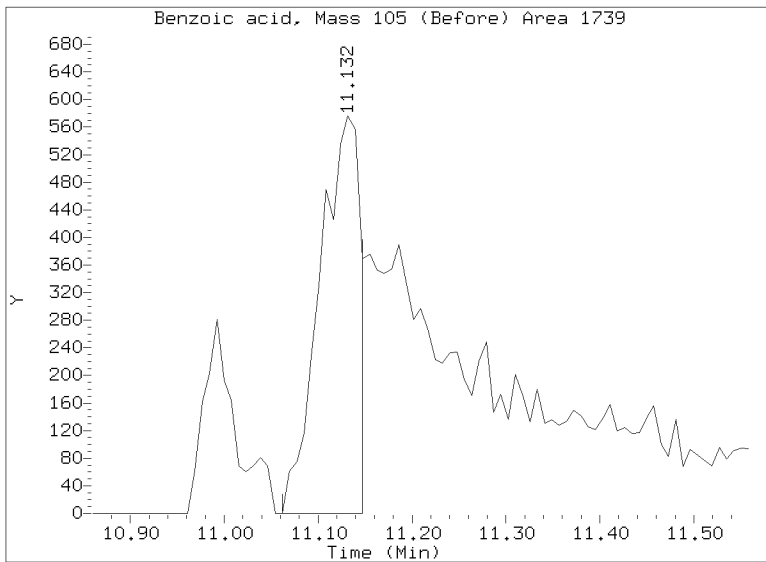
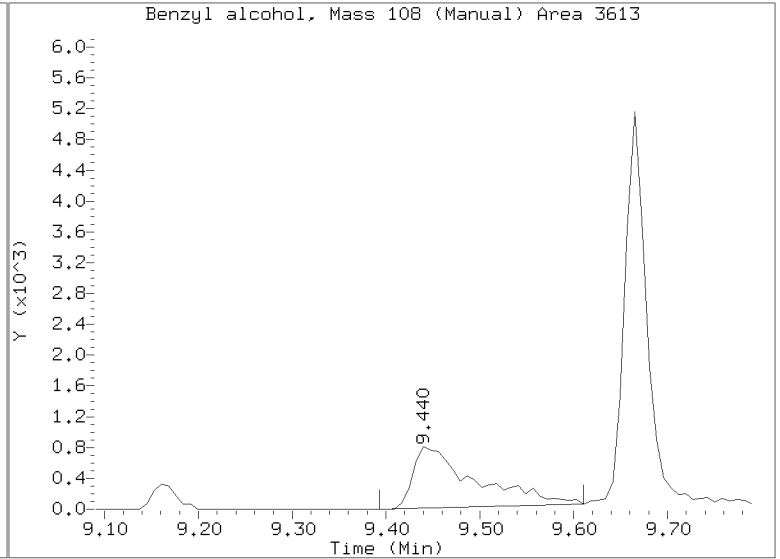
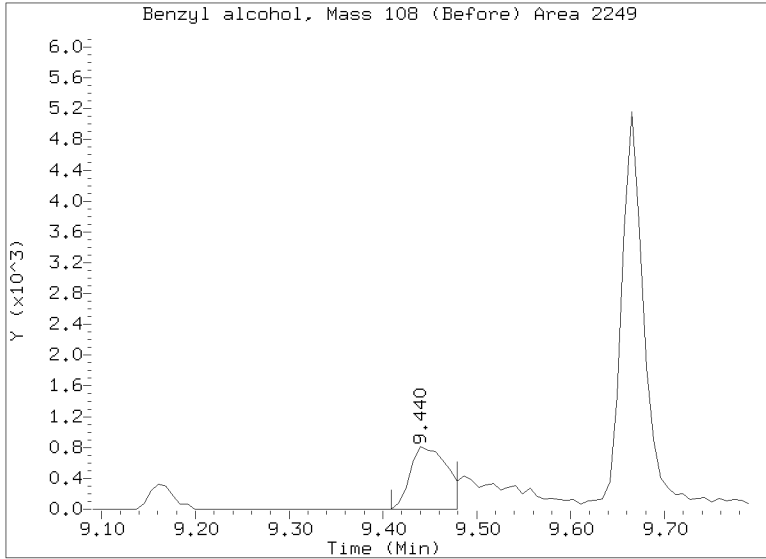
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

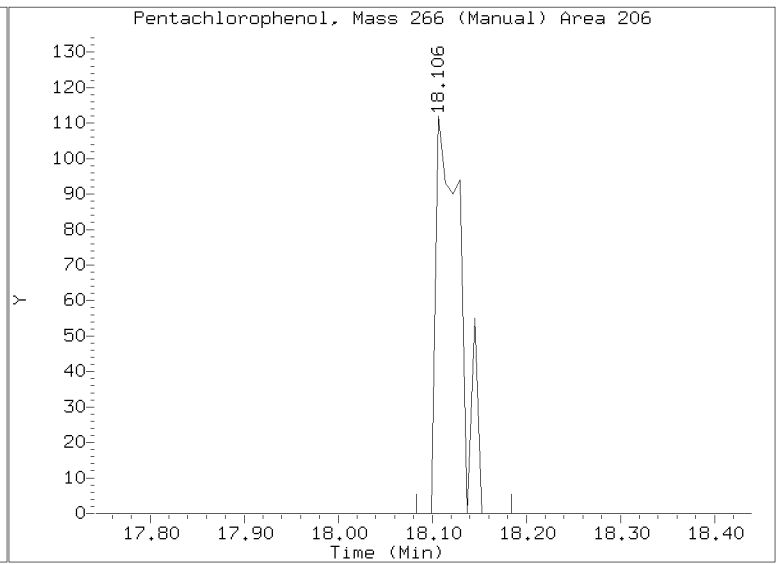
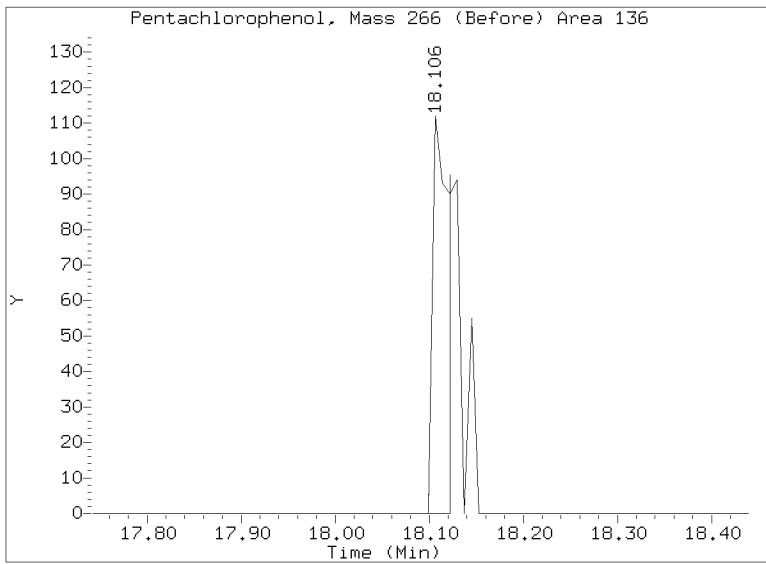
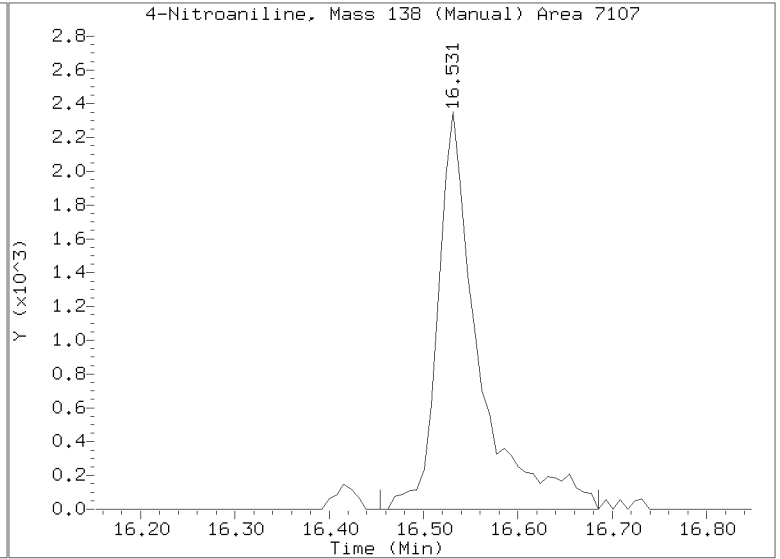
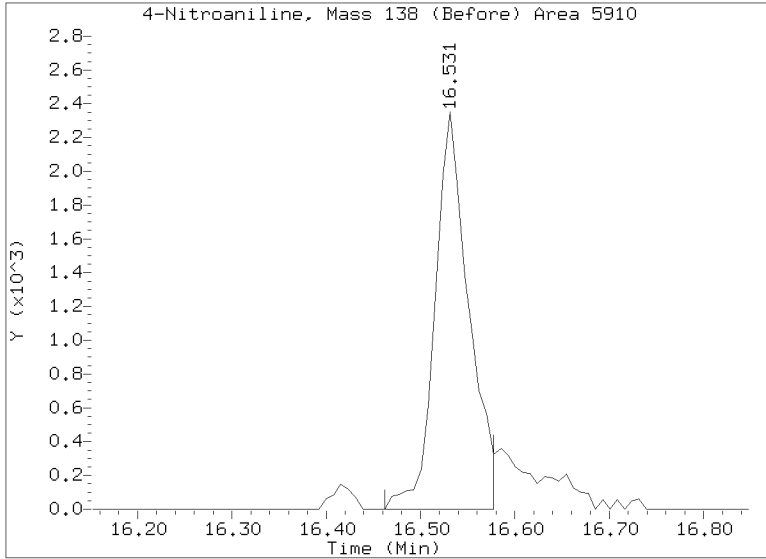
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV4

Sequence: SKL0355

Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-2.8	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.7	50.00
2-Chlorophenol	0.50000	0.5	3.3	50.00
1,3-Dichlorobenzene	0.50000	0.5	-0.4	50.00
1,4-Dichlorobenzene	0.50000	0.5	1.4	50.00
1,2-Dichlorobenzene	0.50000	0.5	-0.8	50.00
Benzyl Alcohol	0.50000	0.4	-22.6	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-5.4	50.00
2-Methylphenol	0.50000	0.5	-2.6	50.00
Hexachloroethane	0.50000	0.4	-17.5	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	1.5	50.00
4-Methylphenol	0.50000	0.5	-6.9	50.00
Nitrobenzene	0.50000	0.5	-6.2	50.00
Isophorone	0.50000	0.5	-9.5	50.00
2-Nitrophenol	0.50000	0.5	-5.4	50.00
2,4-Dimethylphenol	1.0000	1.0	-2.3	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-1.0	50.00
2,4-Dichlorophenol	1.0000	1.0	-4.0	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-2.2	50.00
Naphthalene	0.50000	0.5	-2.9	50.00
Benzoic acid	2.0000	0.4	-77.6	50.00
4-Chloroaniline	1.0000	0.9	-11.1	50.00
Hexachlorobutadiene	0.50000	0.5	-4.5	50.00
4-Chloro-3-Methylphenol	1.0000	0.9	-5.0	50.00
2-Methylnaphthalene	0.50000	0.5	-6.9	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-86.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-12.6	50.00
2,4,5-Trichlorophenol	1.0000	0.8	-19.8	50.00
2-Chloronaphthalene	0.50000	0.5	-3.8	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV4

Sequence: SKL0355

Standard ID: K011106

2-Nitroaniline	1.0000	1.0	-1.3	50.00
Acenaphthylene	0.50000	0.5	-0.4	50.00
Dimethylphthalate	0.50000	0.5	-0.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-12.7	50.00
Acenaphthene	0.50000	0.5	-0.9	50.00
3-Nitroaniline	1.0000	0.8	-15.1	50.00
2,4-Dinitrophenol	2.0000	0.01	-99.4	50.00
Dibenzofuran	0.50000	0.5	-1.4	50.00
4-Nitrophenol	1.0000	0.7	-32.8	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.2	50.00
Fluorene	0.50000	0.5	-2.4	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	2.5	50.00
Diethyl phthalate	0.50000	0.6	14.4	50.00
4-Nitroaniline	1.0000	0.8	-16.9	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.4	-80.9	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-5.4	50.00
Hexachlorobenzene	0.50000	0.5	-2.6	50.00
Pentachlorophenol	1.0000	0.1	-89.6	50.00
Phenanthrene	0.50000	0.5	-3.4	50.00
Anthracene	0.50000	0.5	-3.0	50.00
Carbazole	0.50000	0.5	-6.4	50.00
Di-n-Butylphthalate	0.50000	0.5	-4.2	50.00
Fluoranthene	0.50000	0.5	-5.6	50.00
Pyrene	0.50000	0.5	-3.8	50.00
Butylbenzylphthalate	0.50000	0.5	5.2	50.00
Benzo(a)anthracene	0.50000	0.5	4.1	50.00
3,3'-Dichlorobenzidine	1.5000	1.6	9.4	50.00
Chrysene	0.50000	0.5	0.02	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	2.7	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.0	50.00



**LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00066

Laboratory ID: SKL0355-LCV4

Sequence: SKL0355

Standard ID: K011106

Benzofluoranthenes, Total	1.0000	1.1	12.7	50.00
Benzo(a)pyrene	0.50000	0.5	5.9	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-42.5	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-41.0	50.00
Benzo(g,h,i)perylene	0.50000	0.2	-51.8	50.00
1-Methylnaphthalene	0.50000	0.5	-5.2	50.00
2-Fluorophenol	0.75000	0.732	-2.4	50.00
Phenol-d5	0.75000	0.661	-11.9	50.00
2-Chlorophenol-d4	0.75000	0.698	-7.0	50.00
1,2-Dichlorobenzene-d4	0.50000	0.480	-4.0	50.00
Nitrobenzene-d5	0.50000	0.483	-3.4	50.00
2-Fluorobiphenyl	0.50000	0.472	-5.6	50.00
2,4,6-Tribromophenol	0.75000	0.538	-28.3	50.00
p-Terphenyl-d14	0.50000	0.451	-9.7	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123068.D

Date: 01-JAN-2023 00:42

Client ID:

Sample Info: SKL0365-LCV4

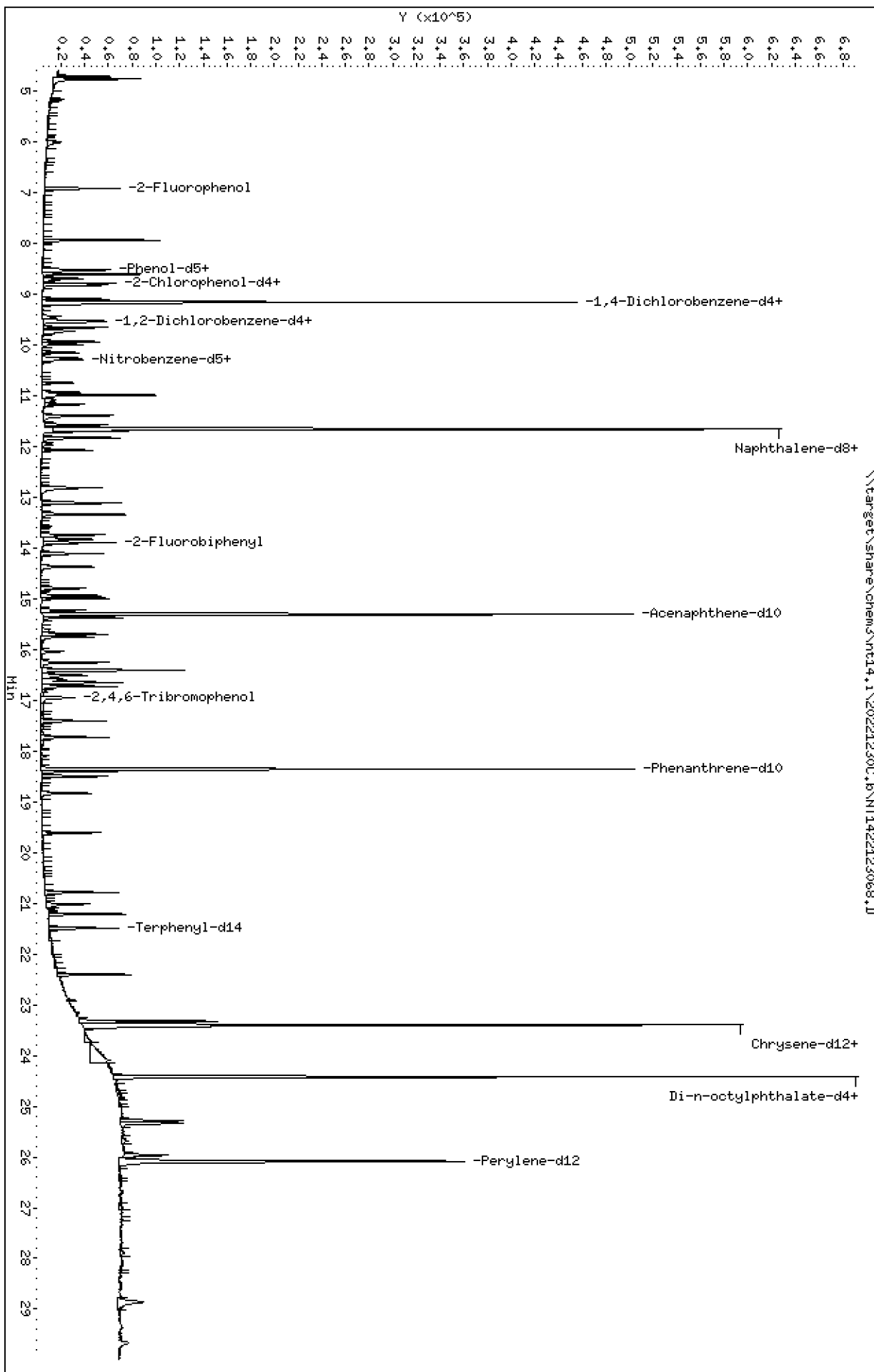
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

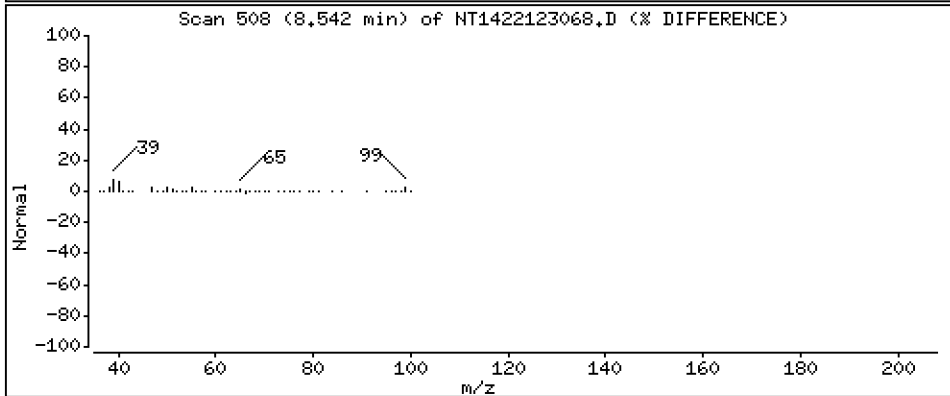
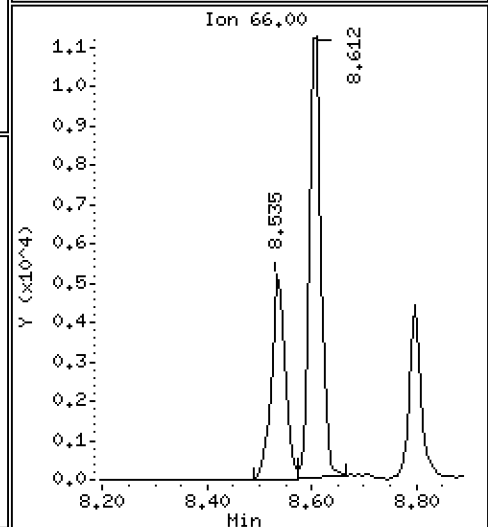
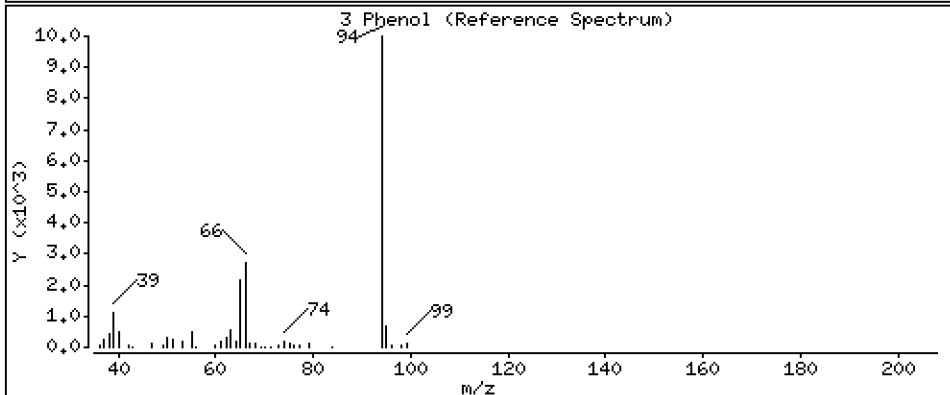
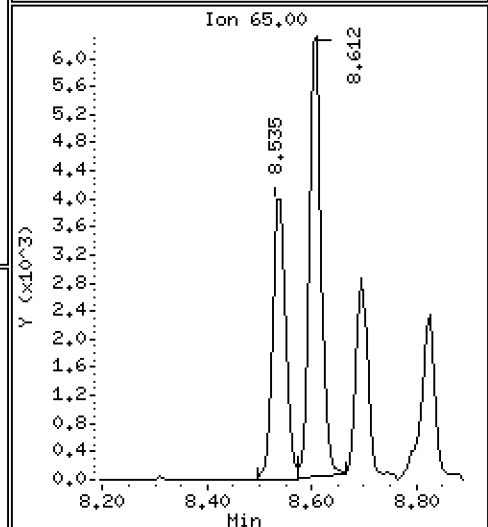
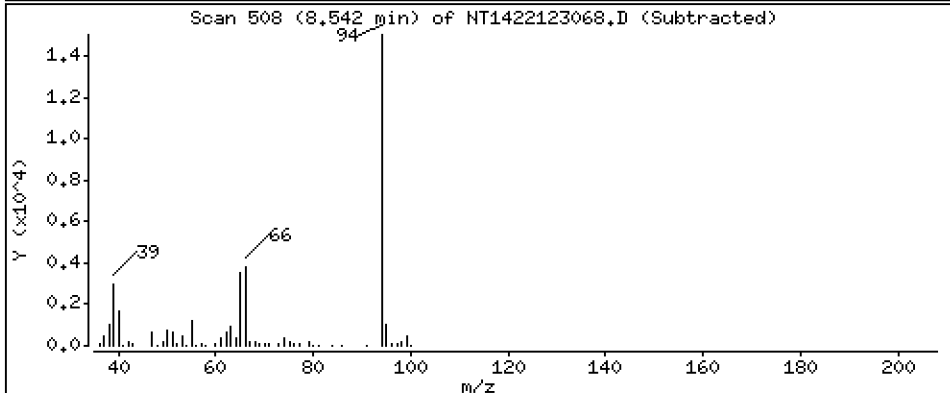
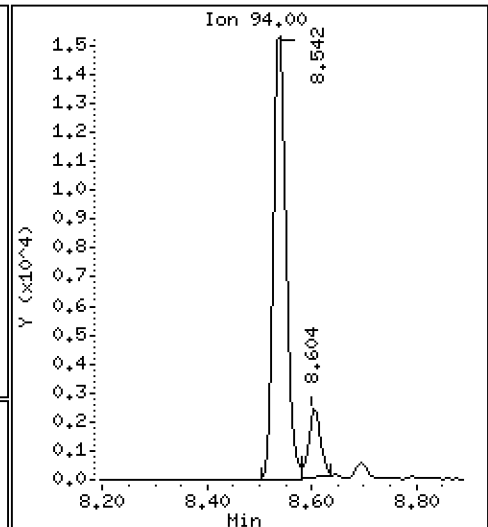
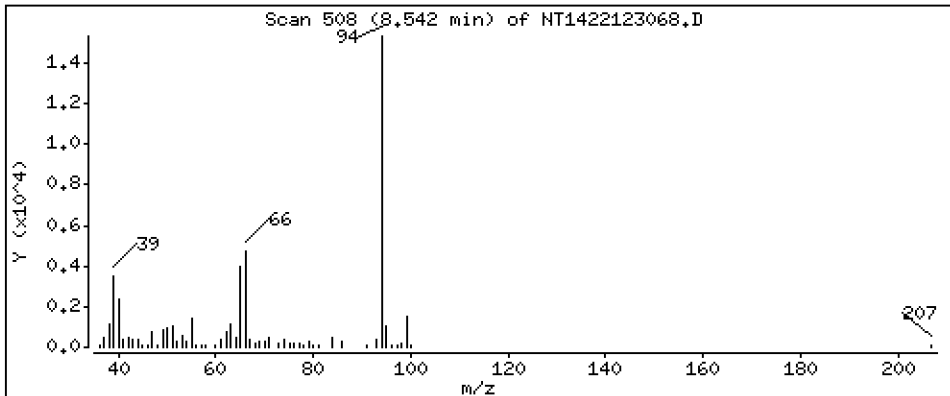
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4858 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

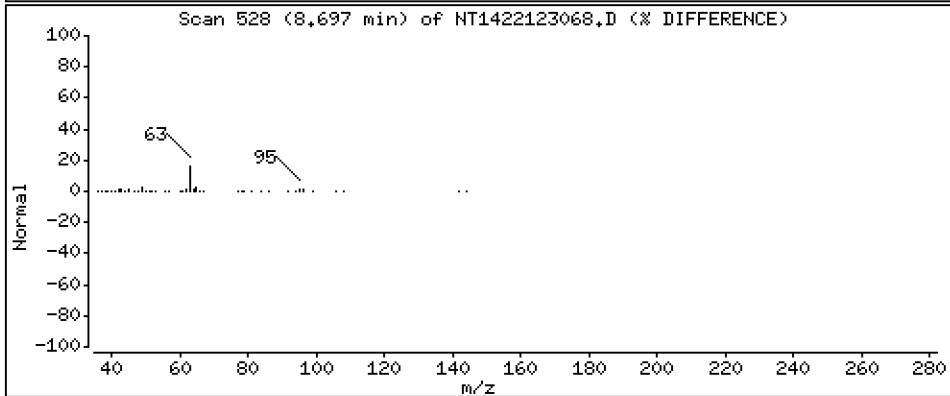
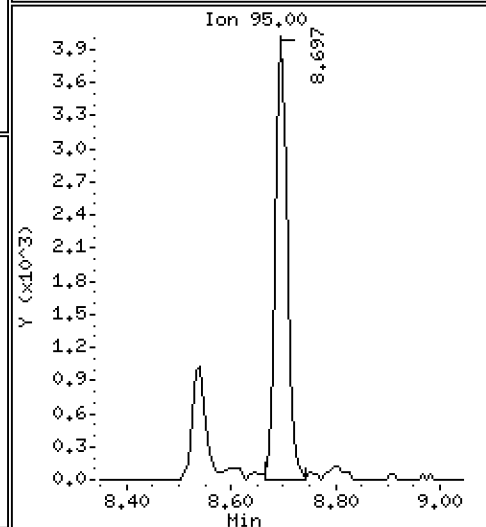
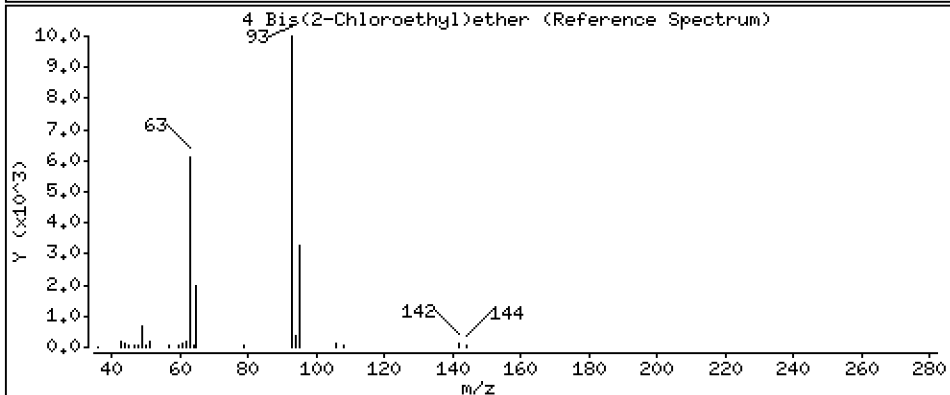
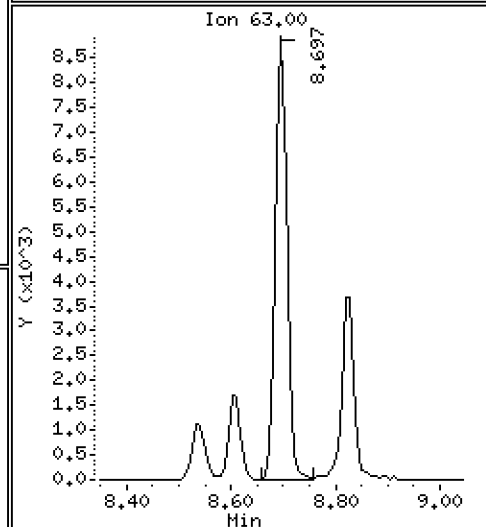
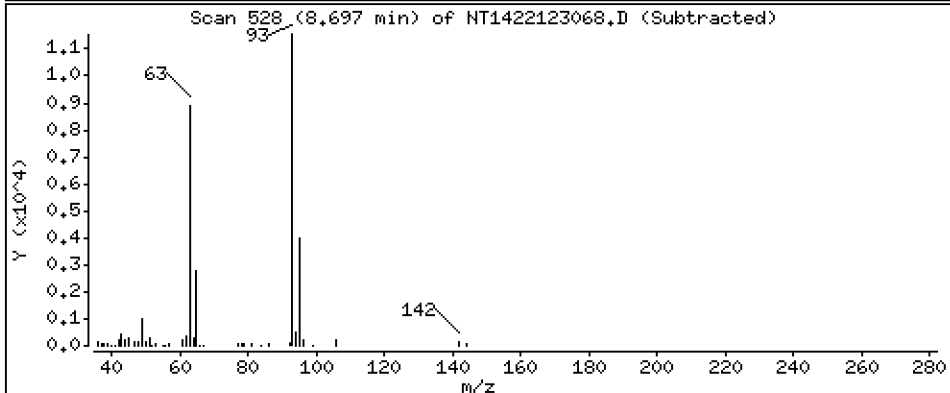
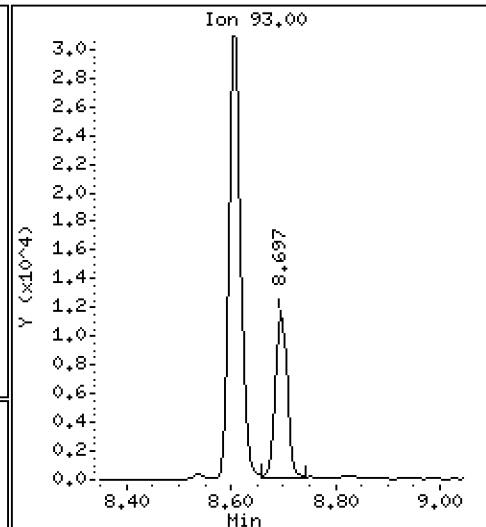
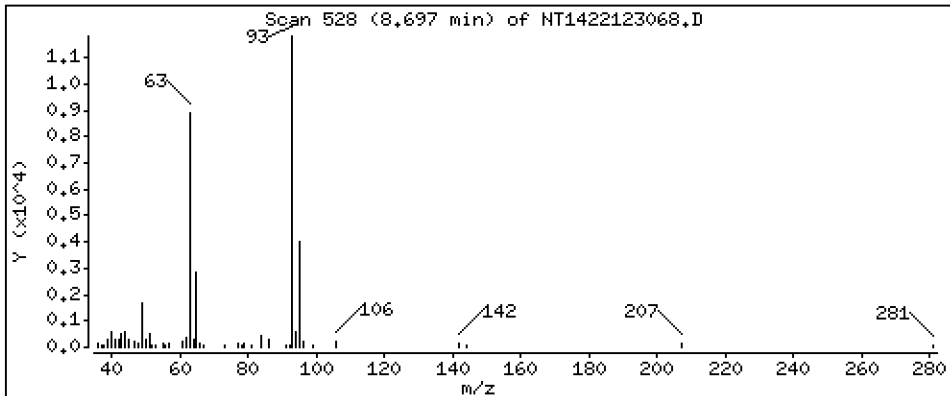
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,4816 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

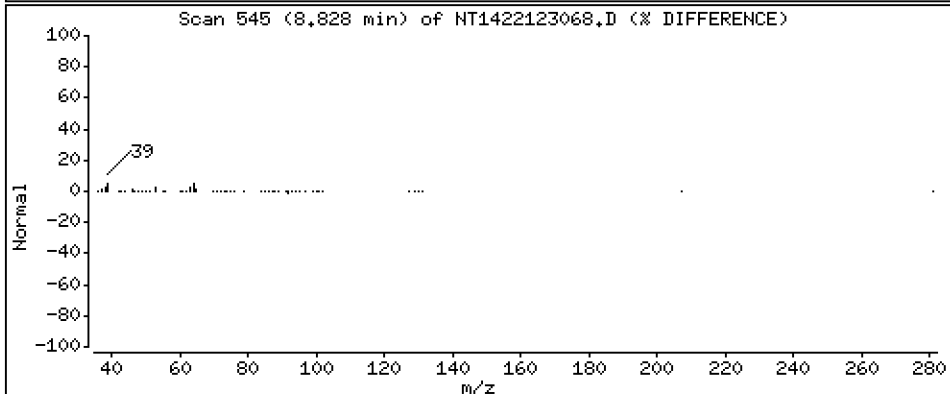
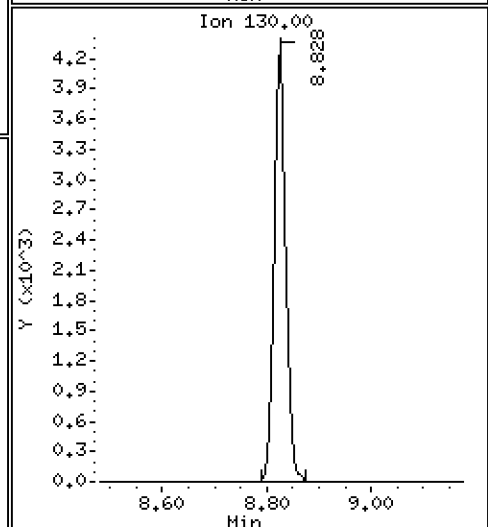
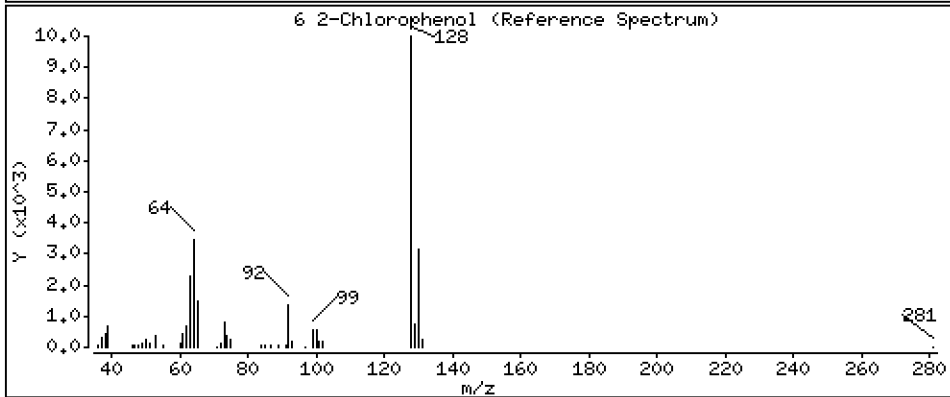
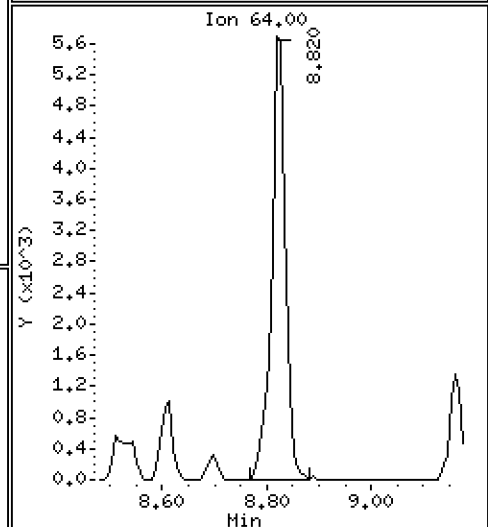
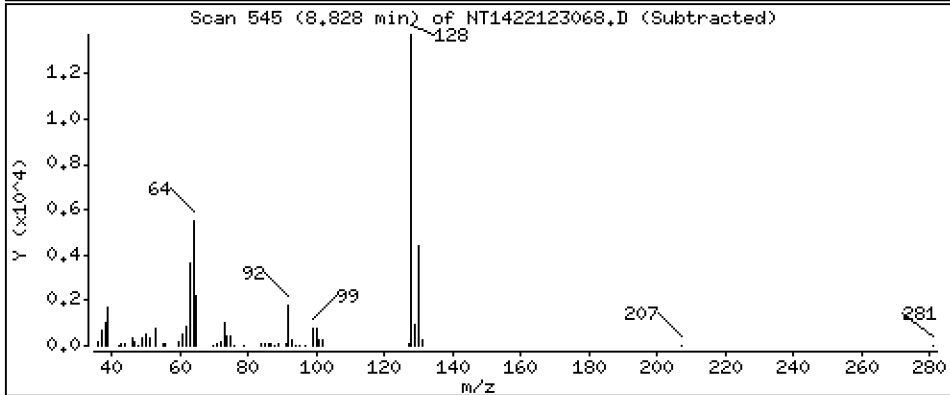
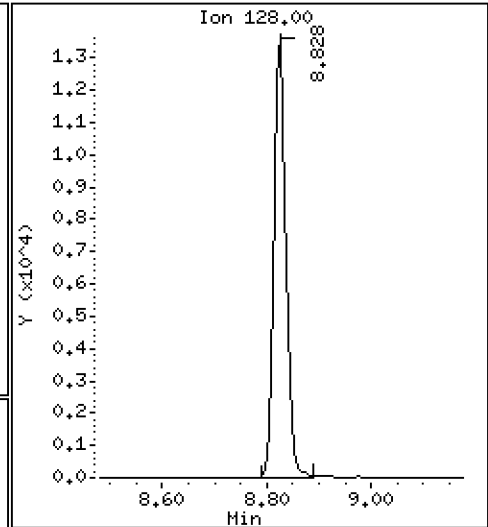
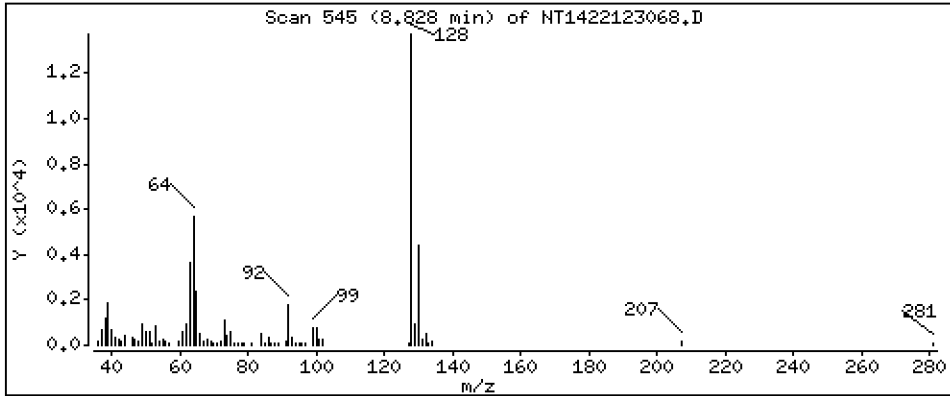
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5163 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

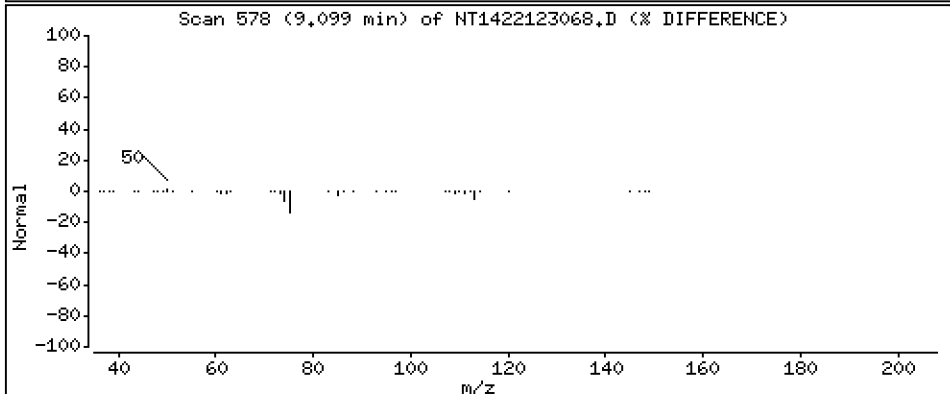
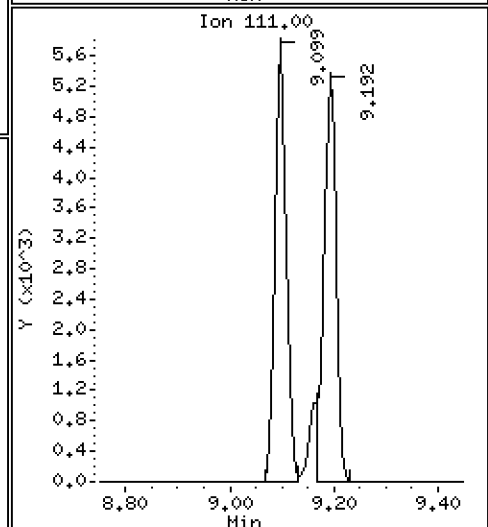
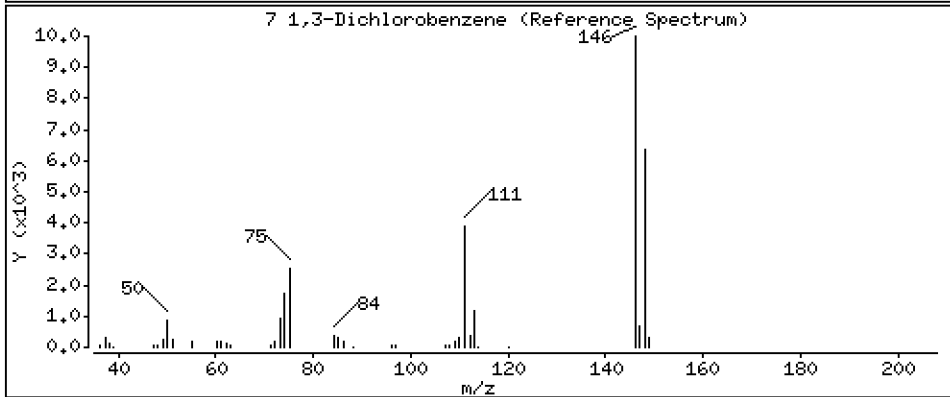
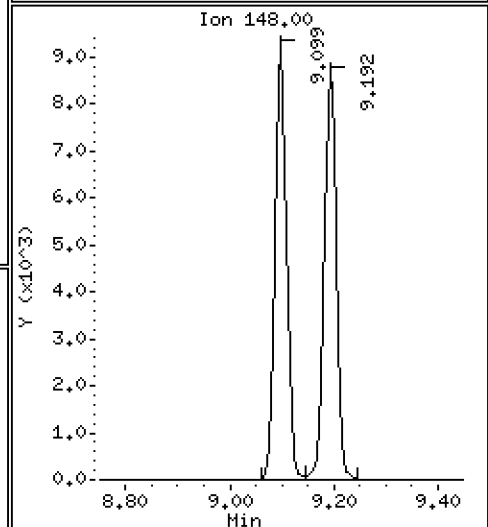
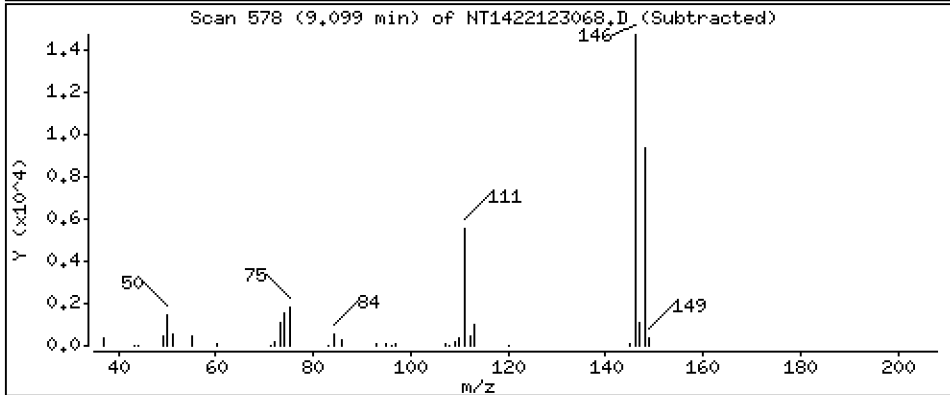
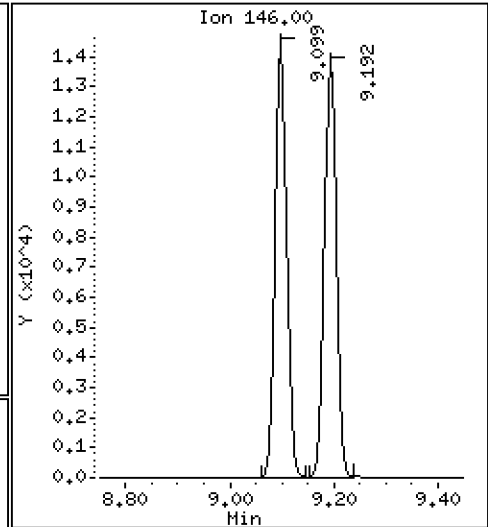
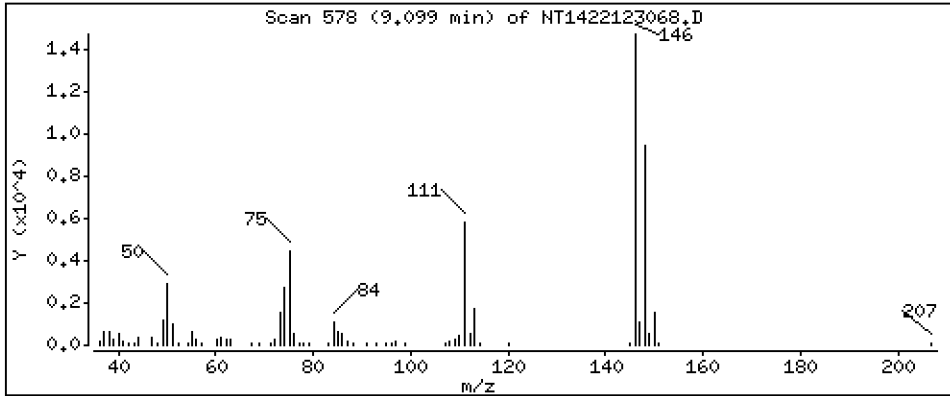
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.4981 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

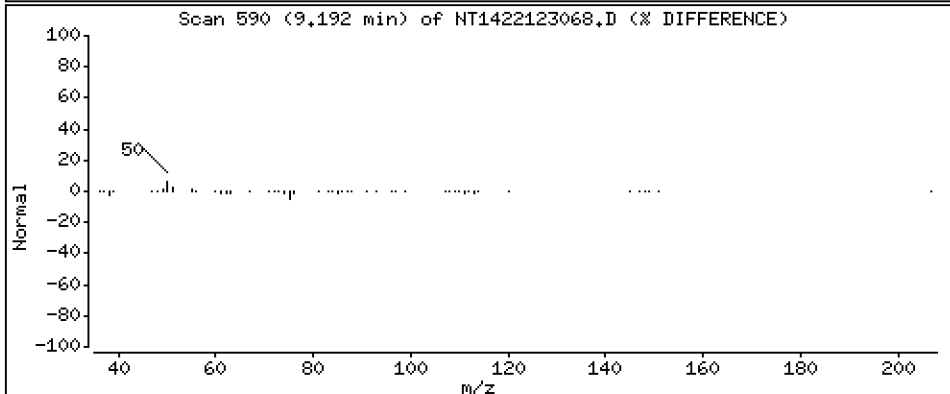
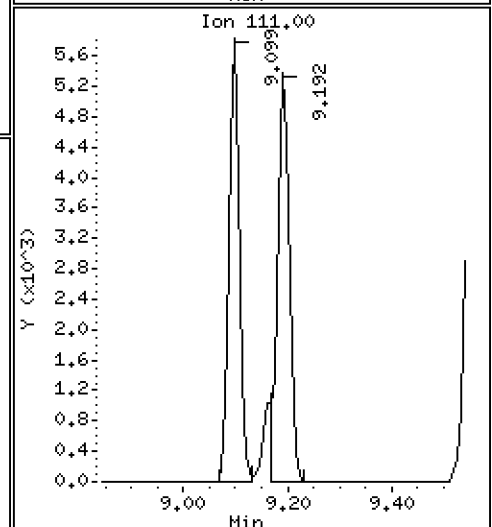
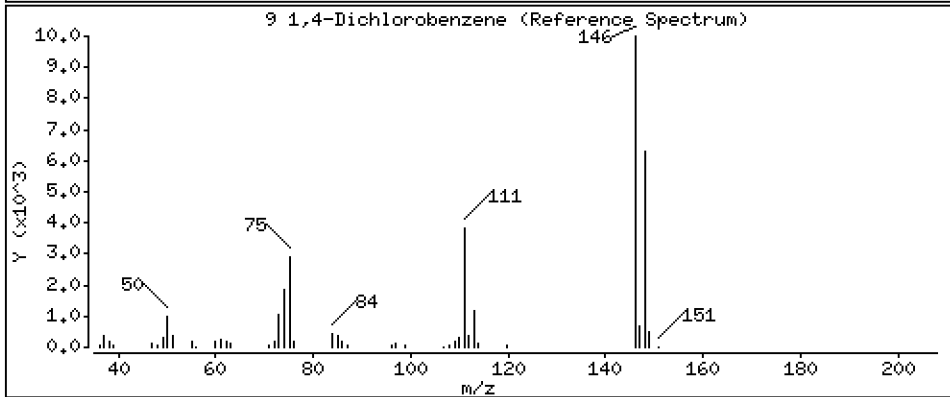
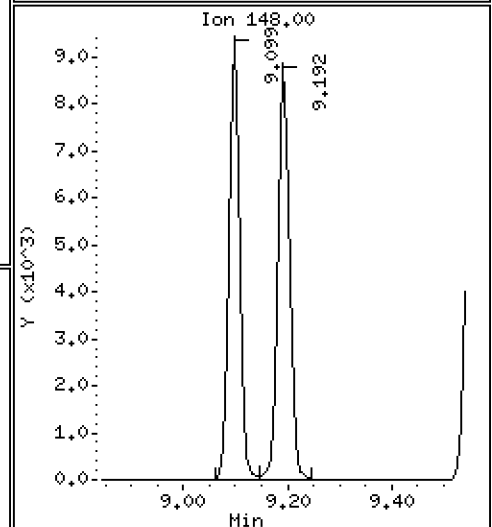
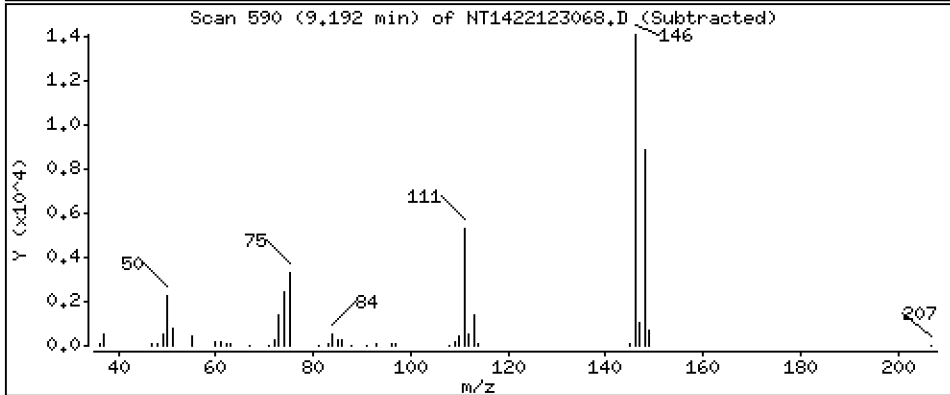
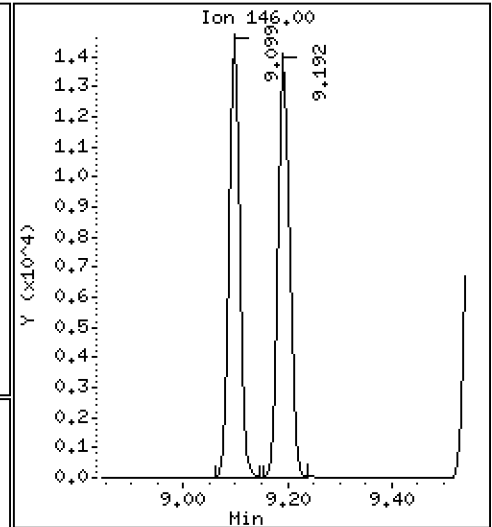
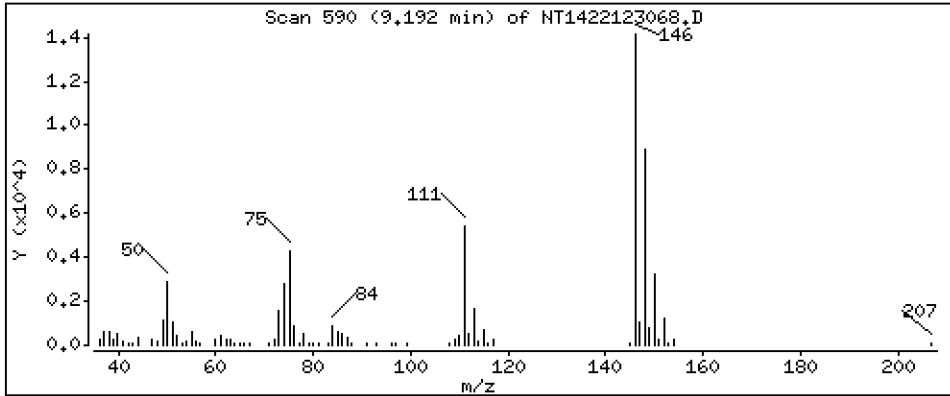
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5068 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

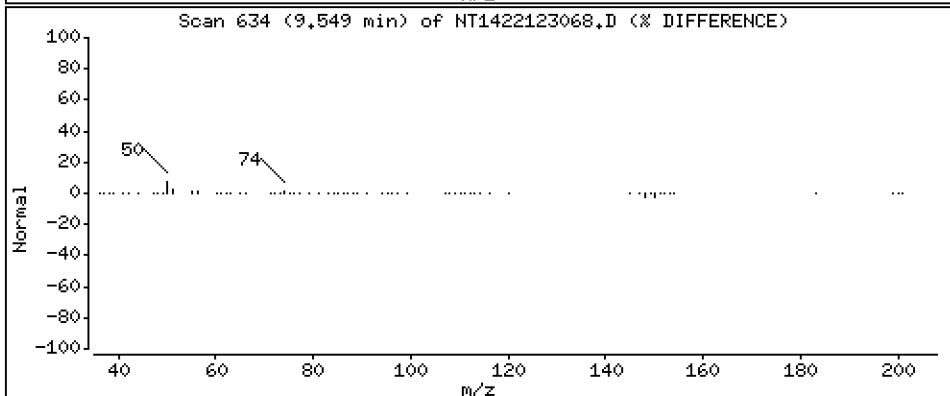
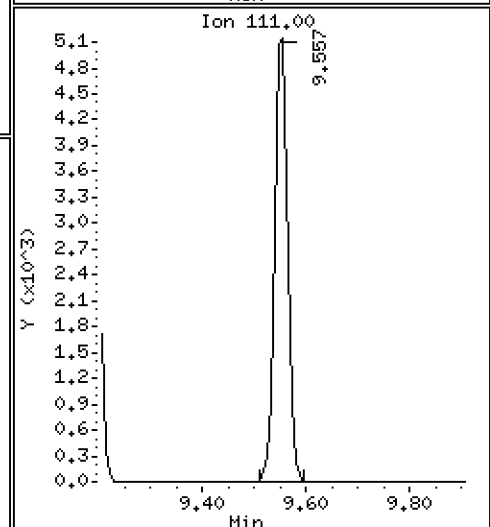
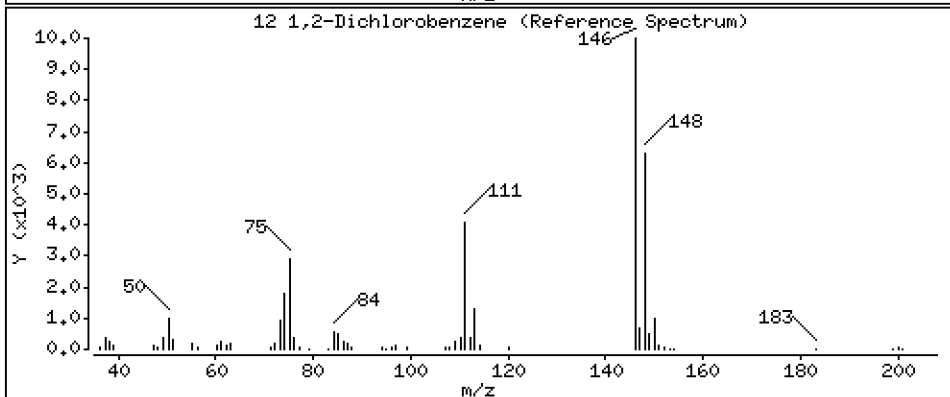
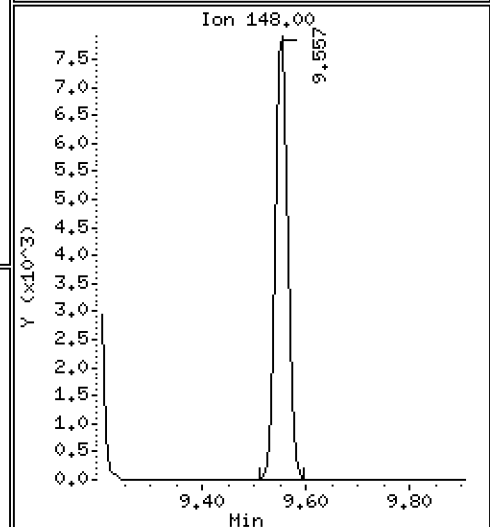
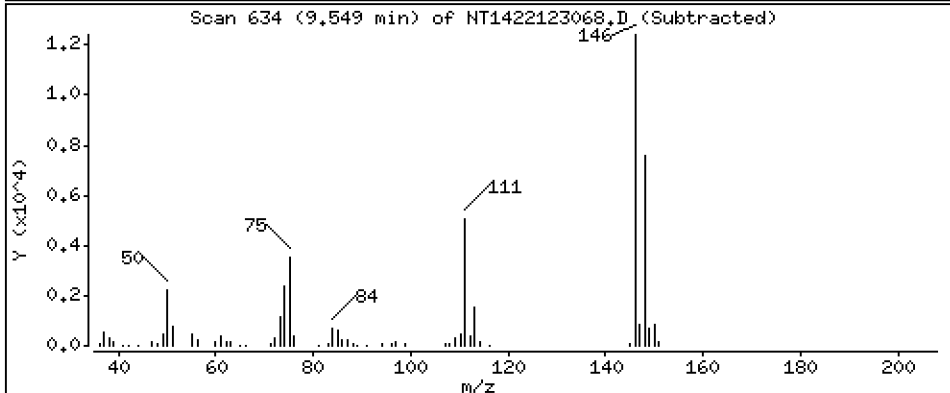
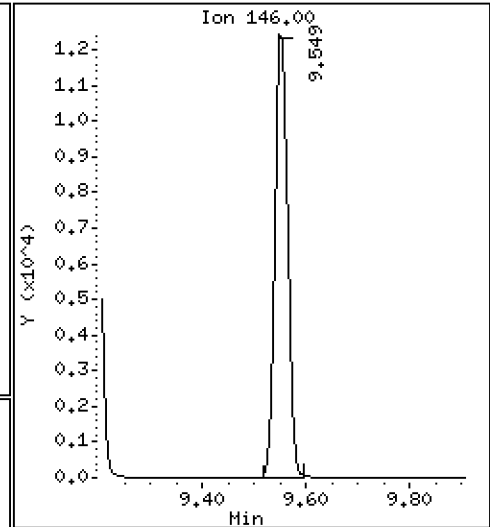
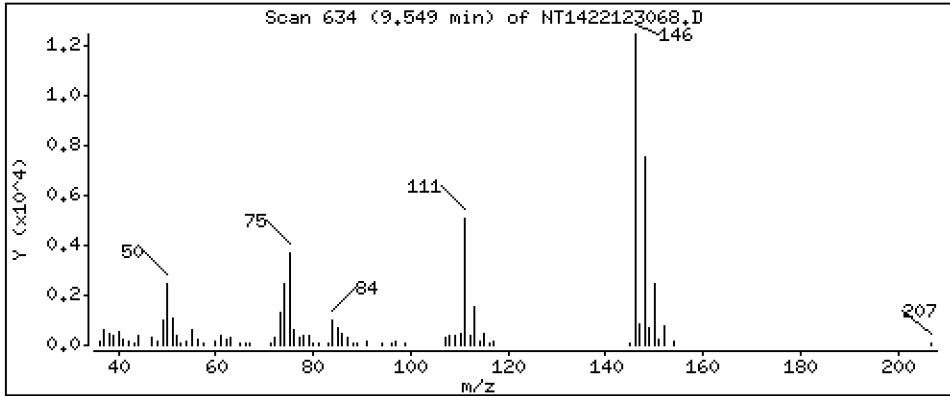
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.4961 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

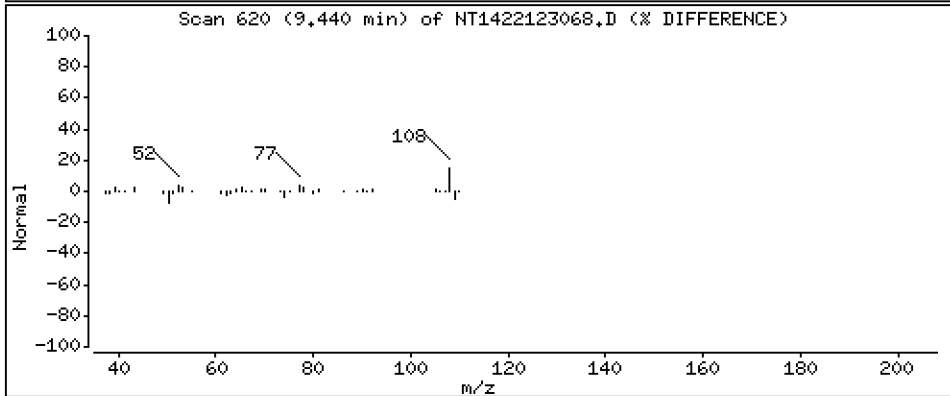
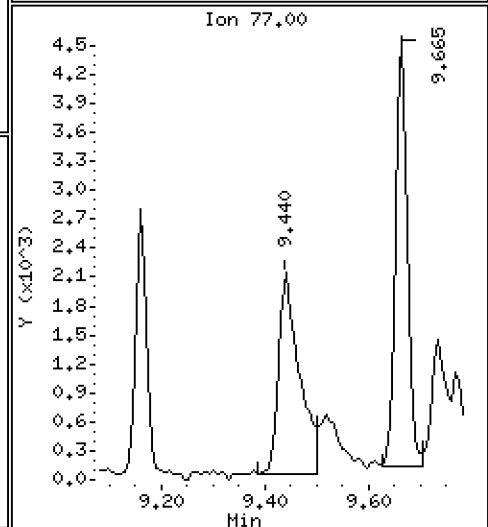
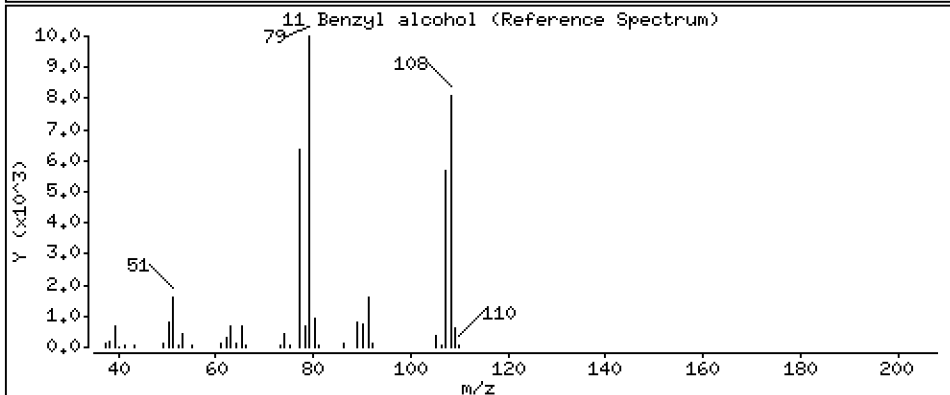
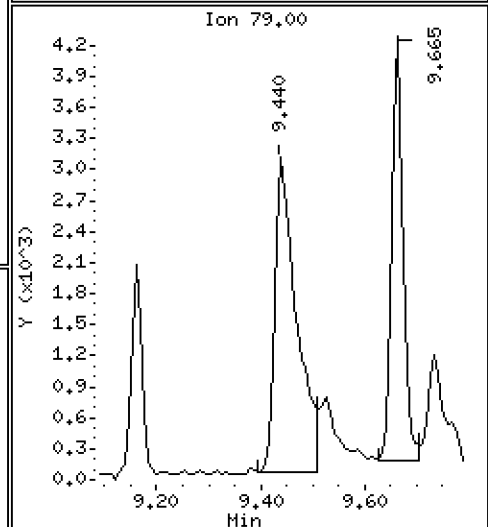
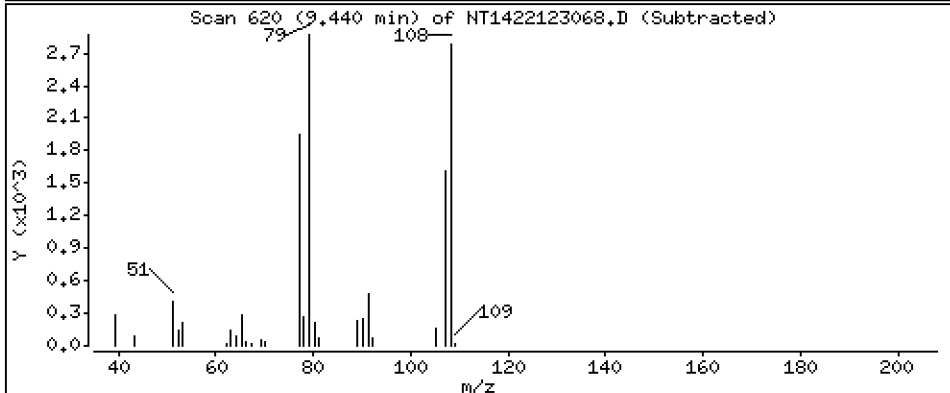
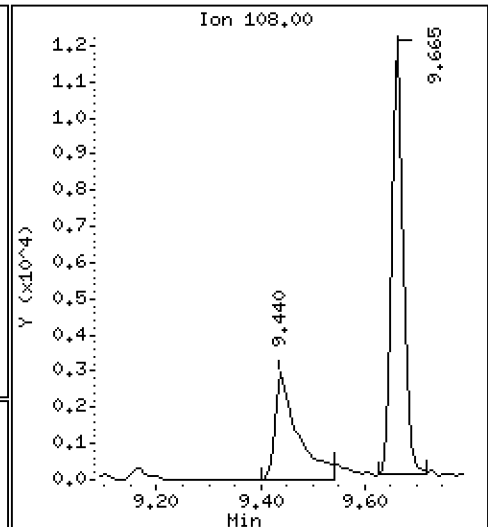
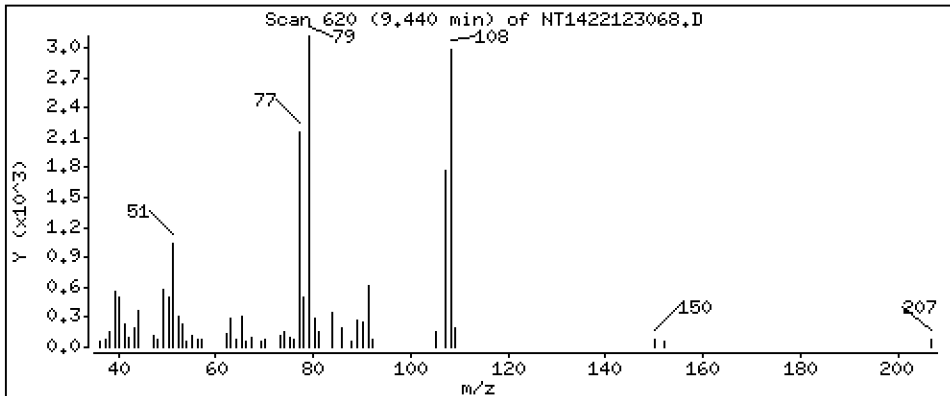
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3869 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

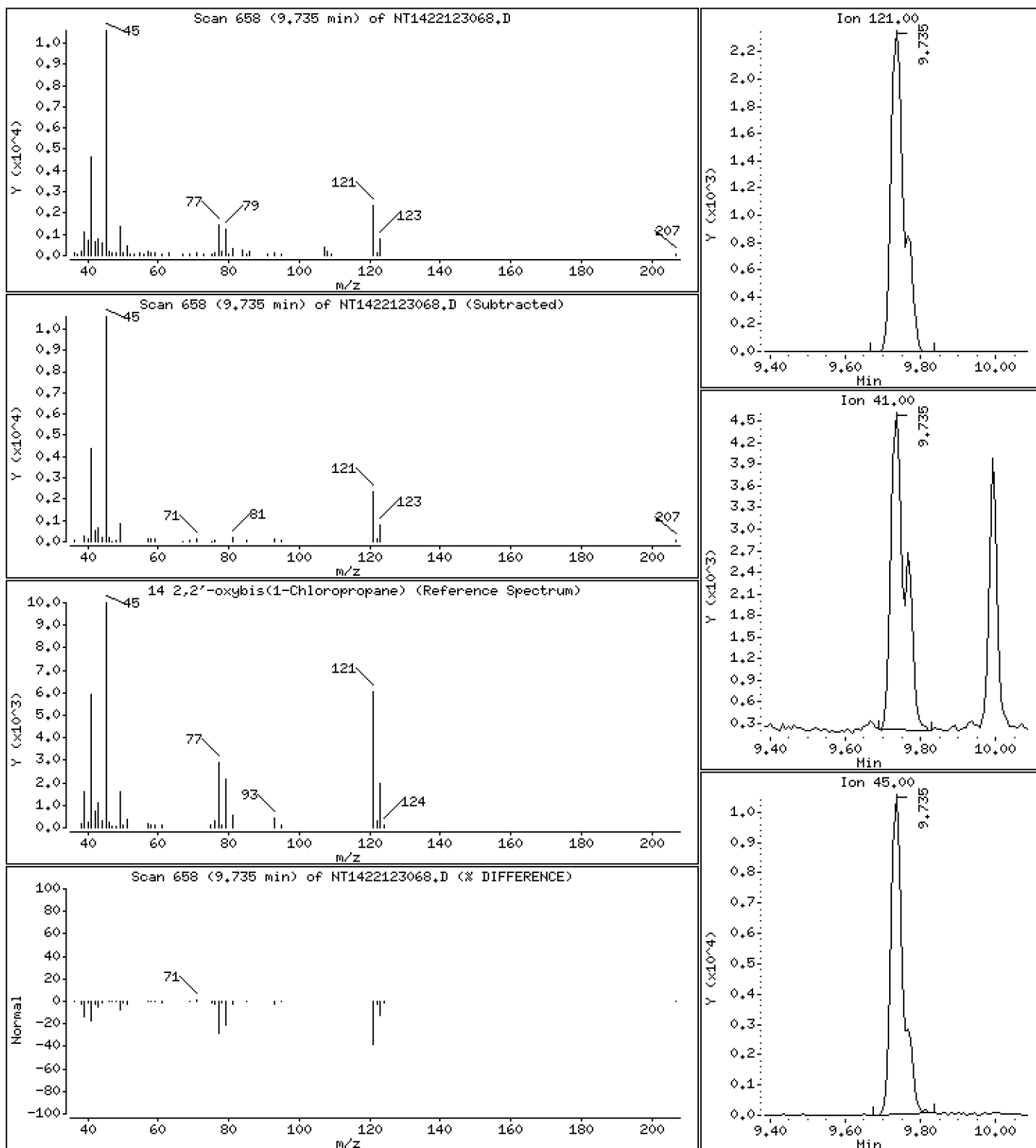
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.4728 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

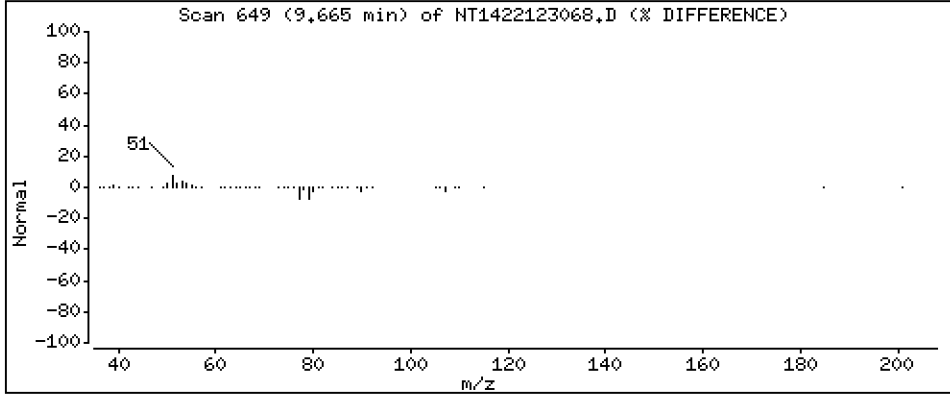
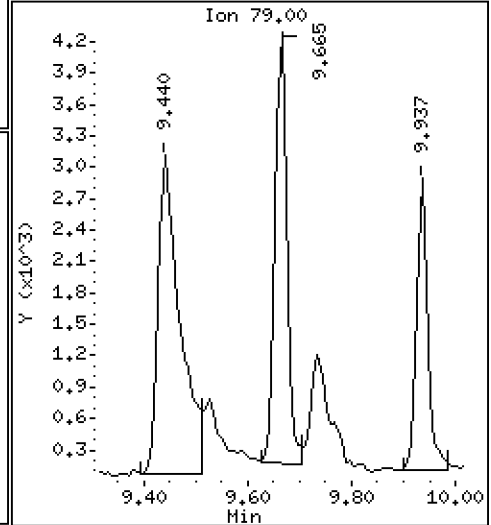
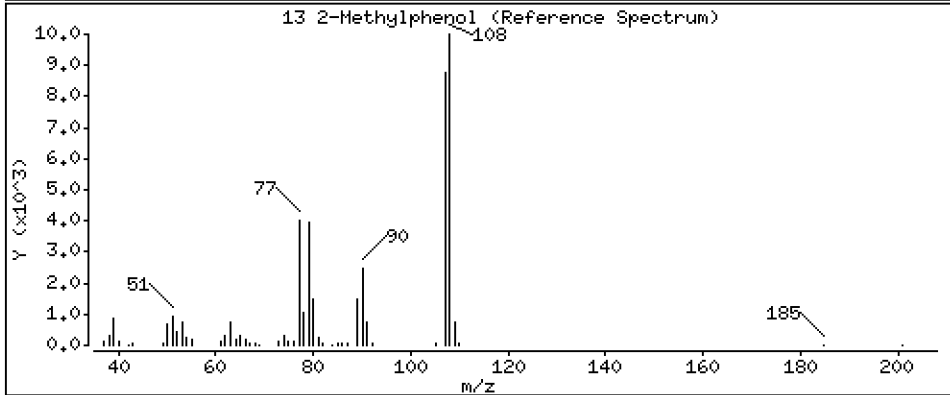
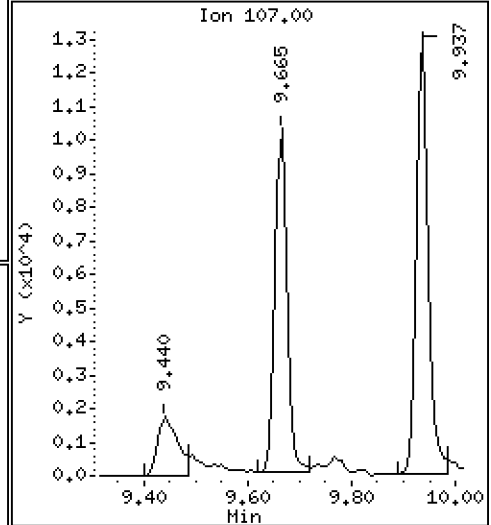
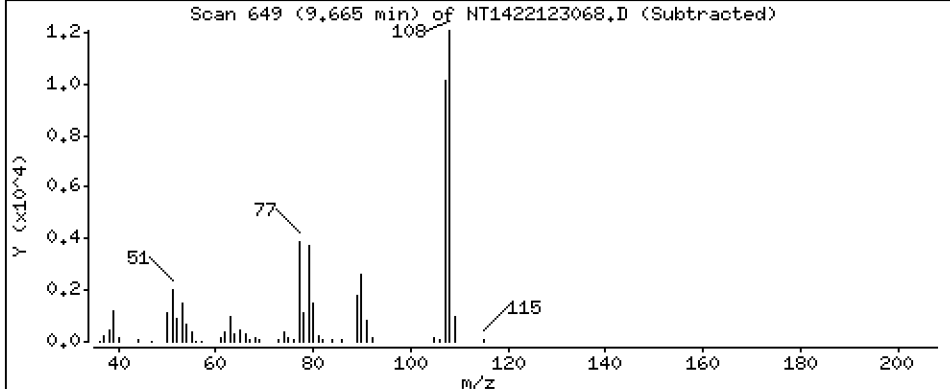
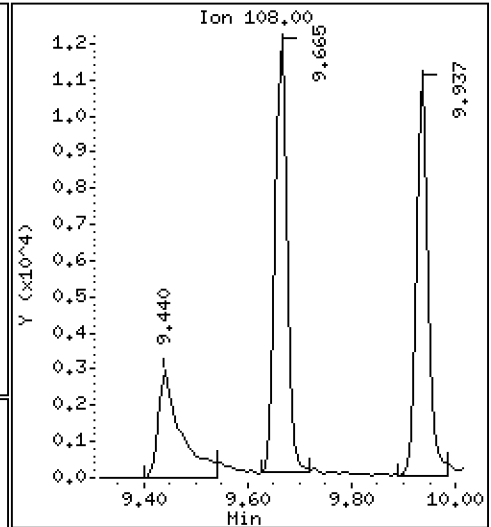
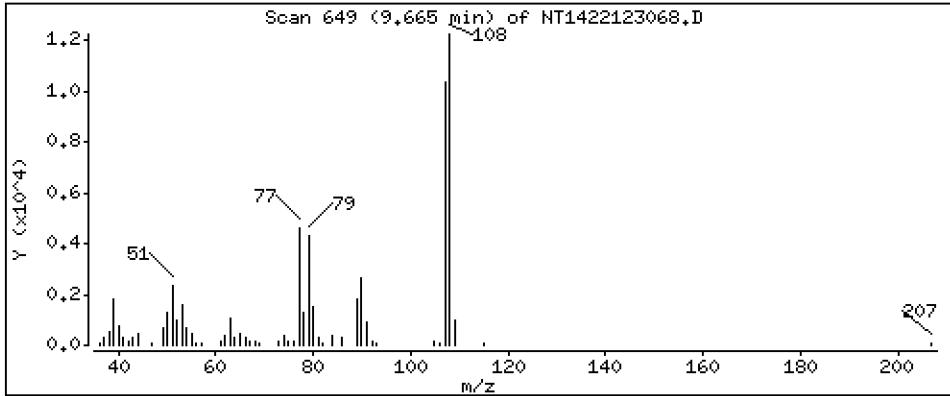
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.4871 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

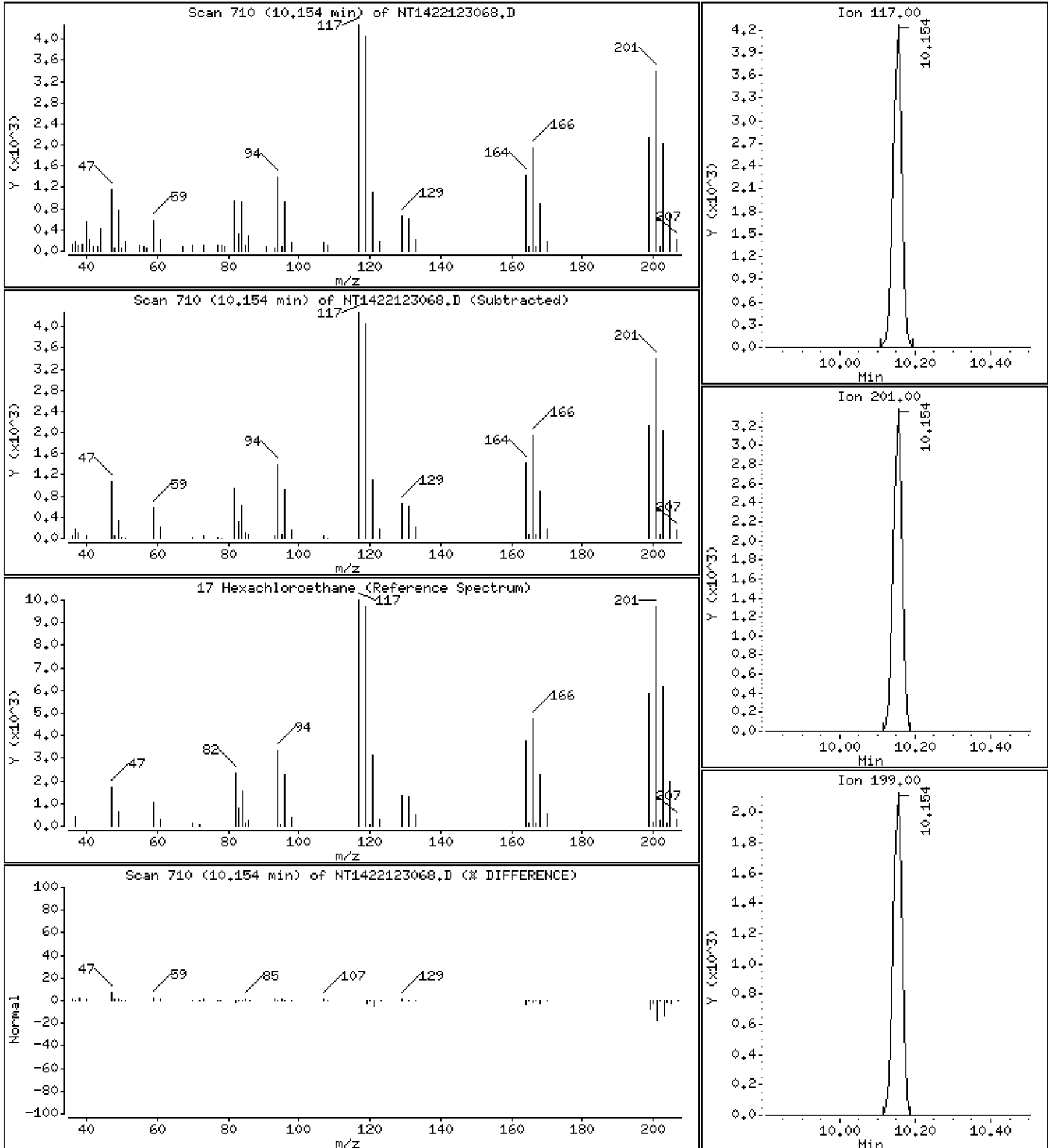
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4126 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

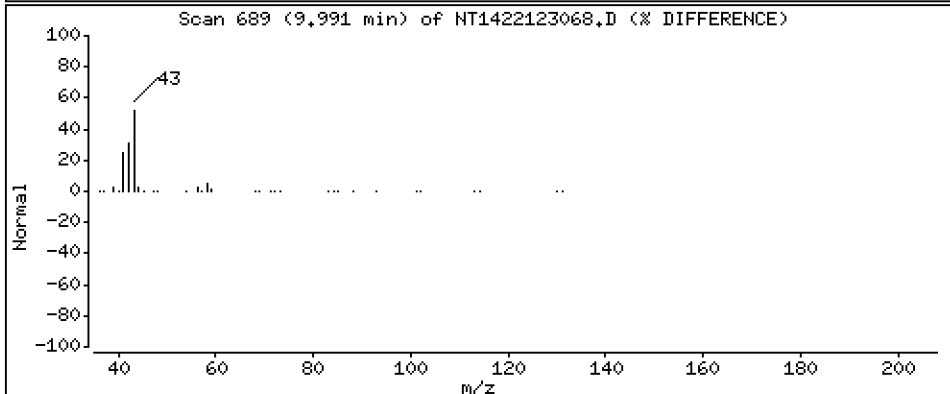
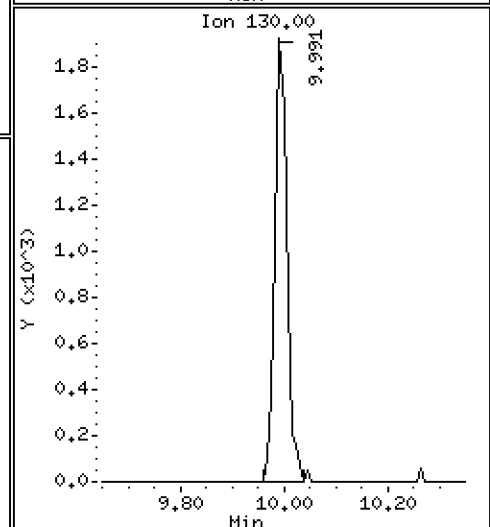
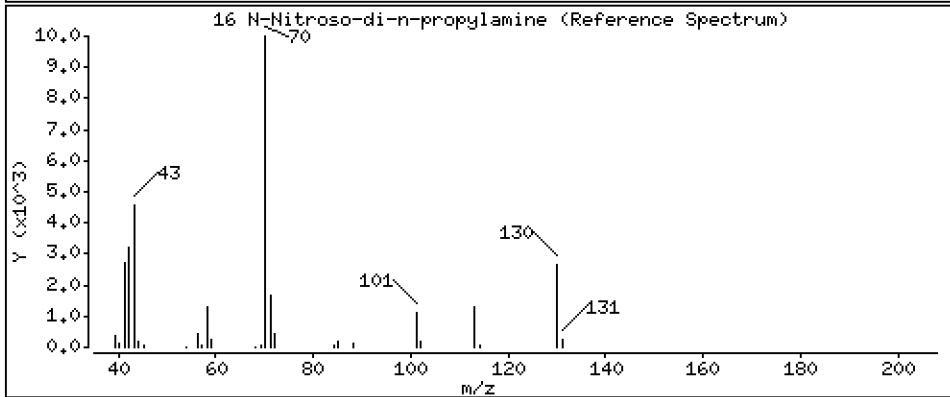
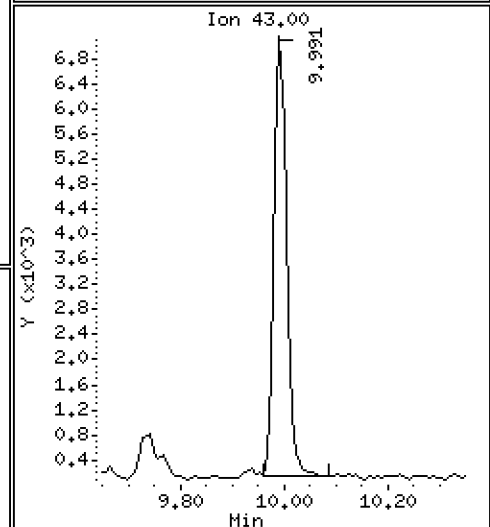
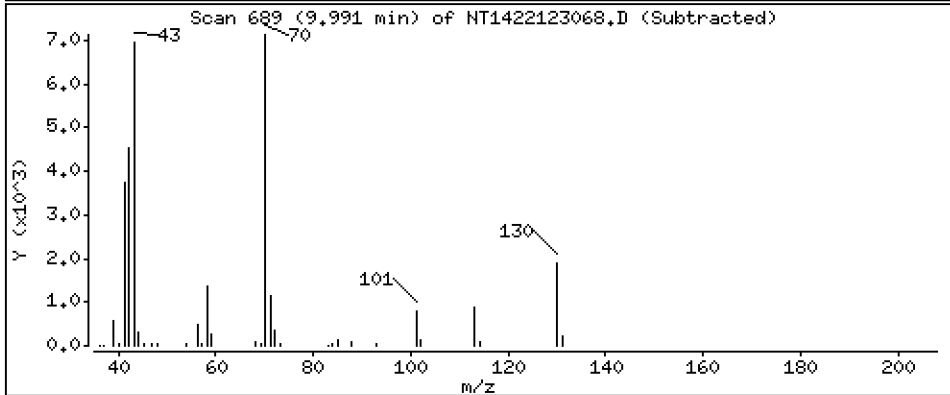
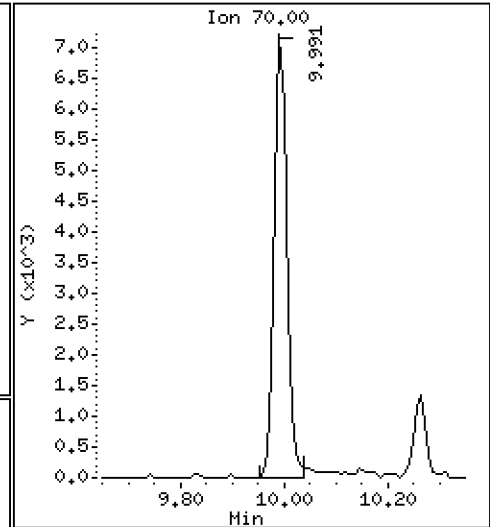
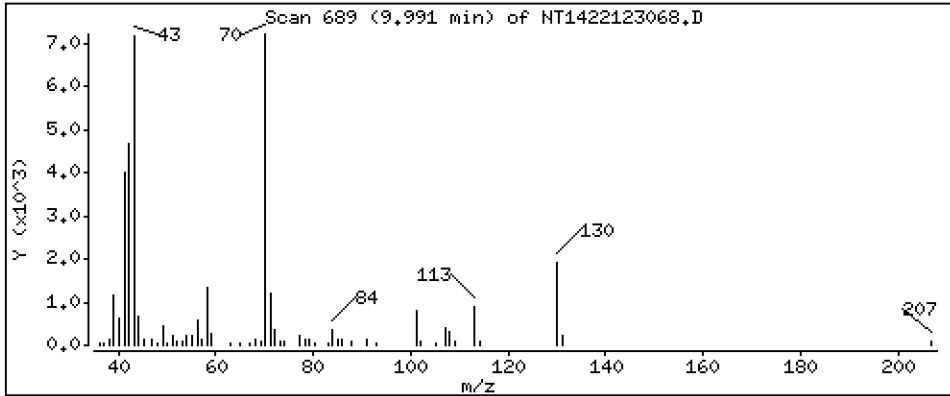
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.5075 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

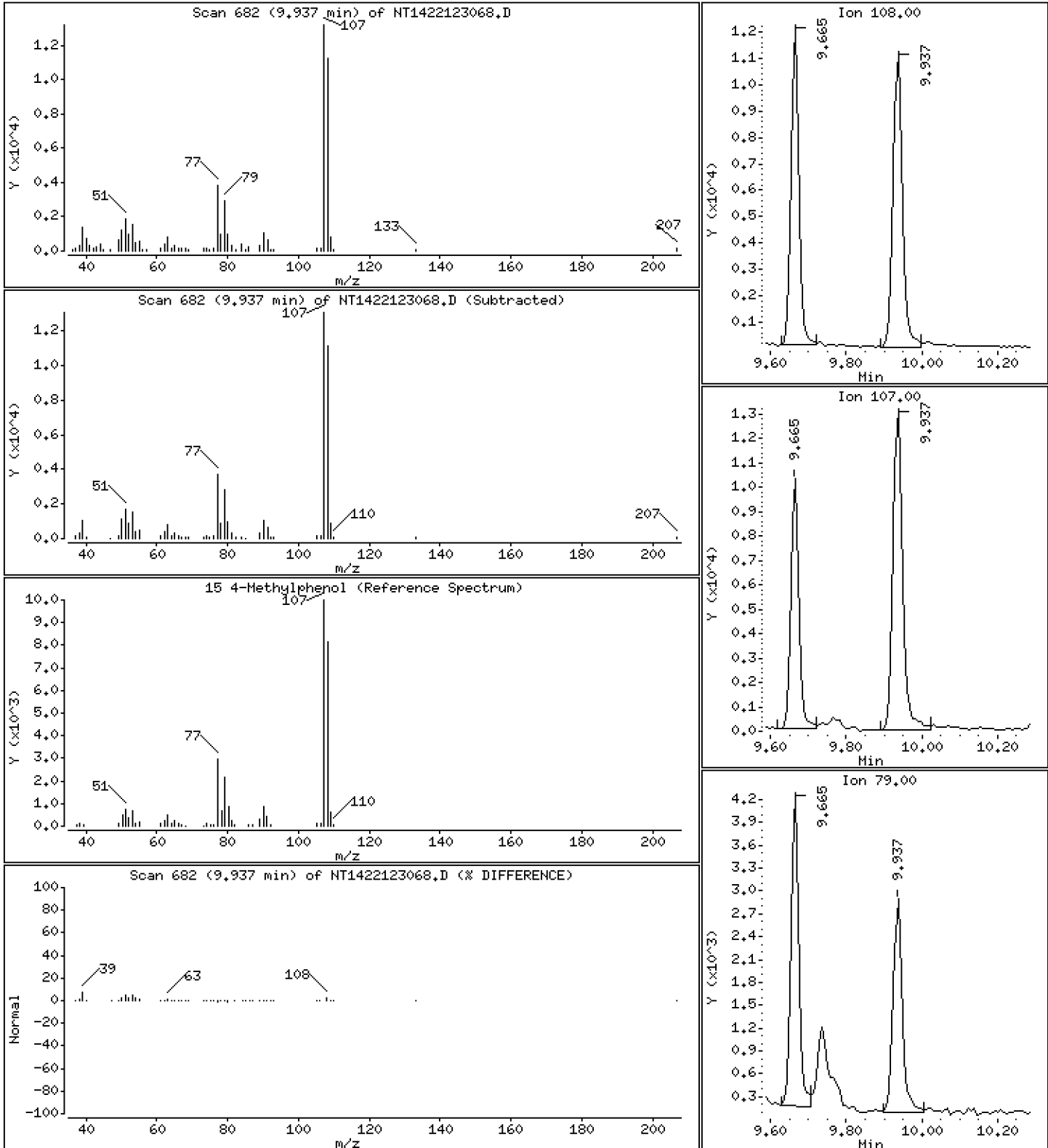
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,4654 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

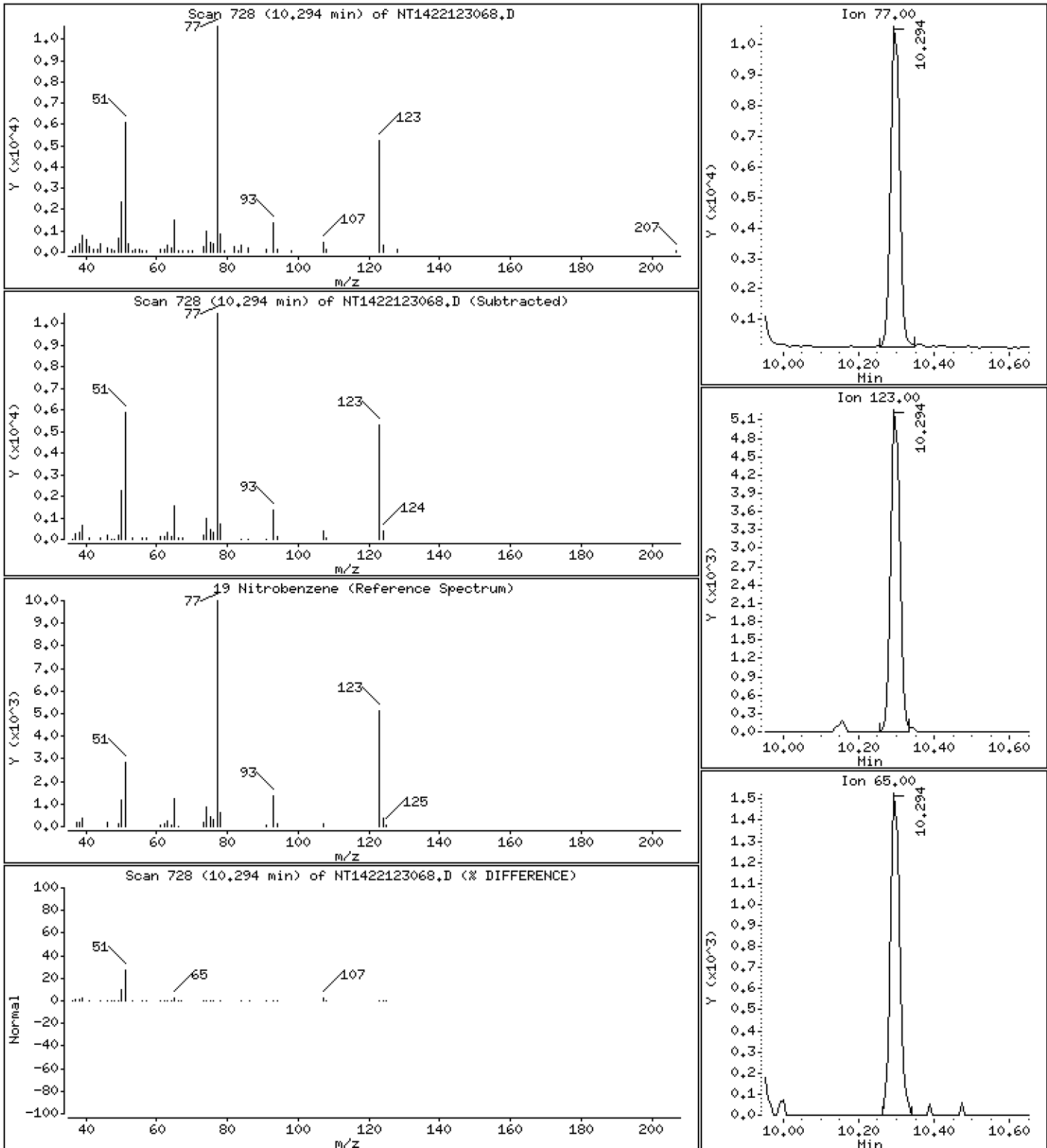
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4693 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

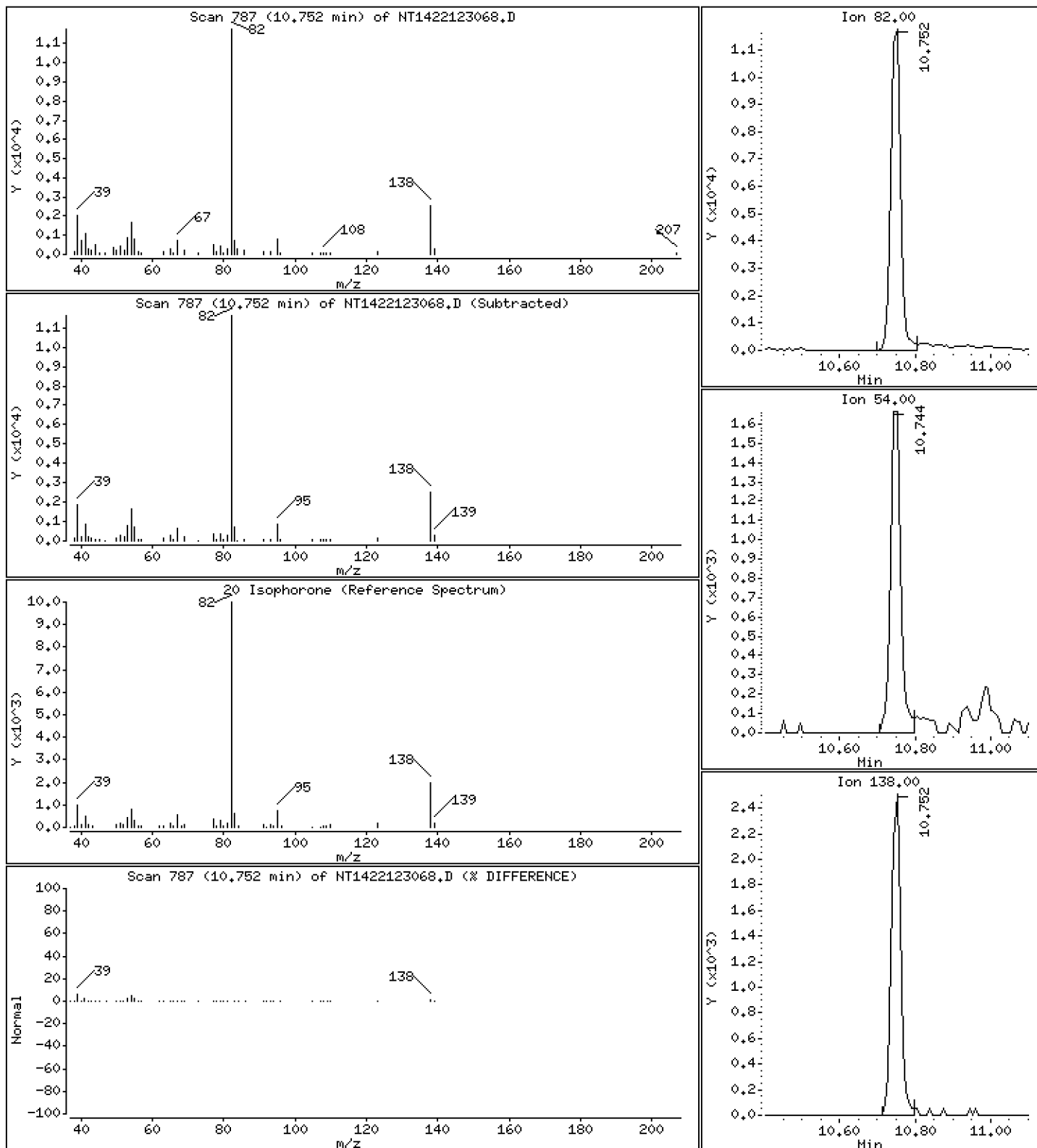
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4524 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

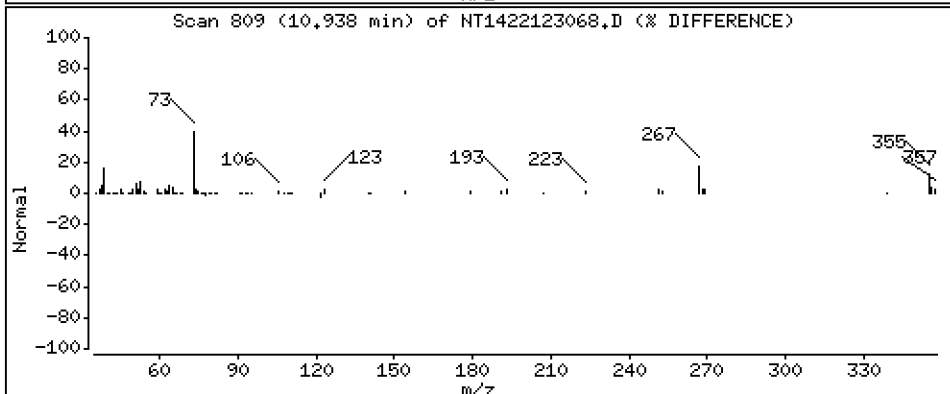
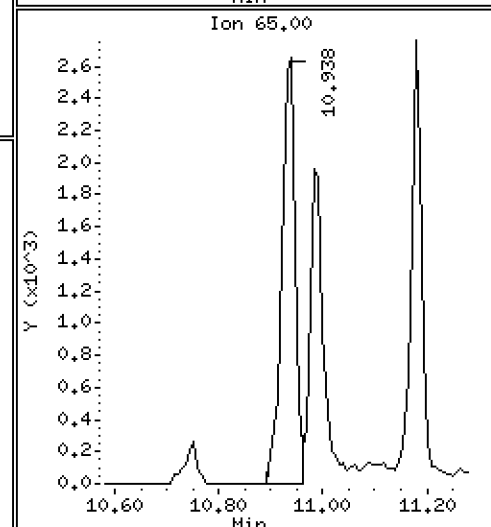
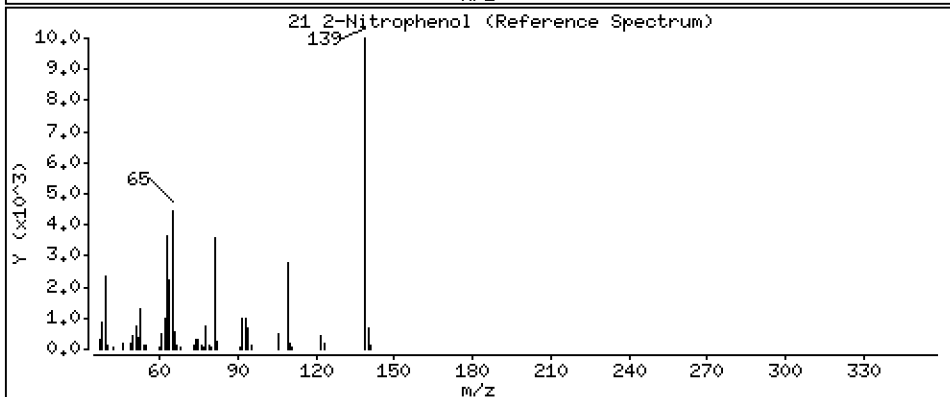
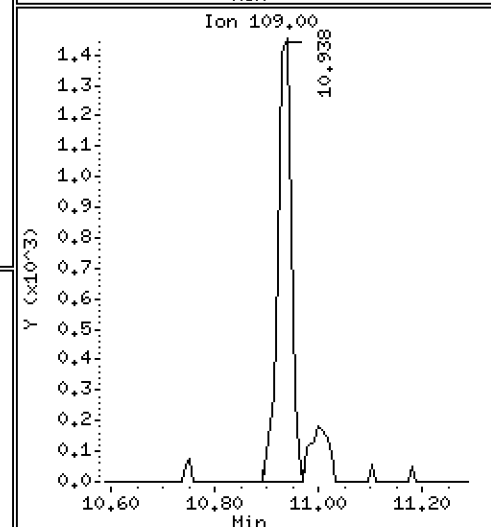
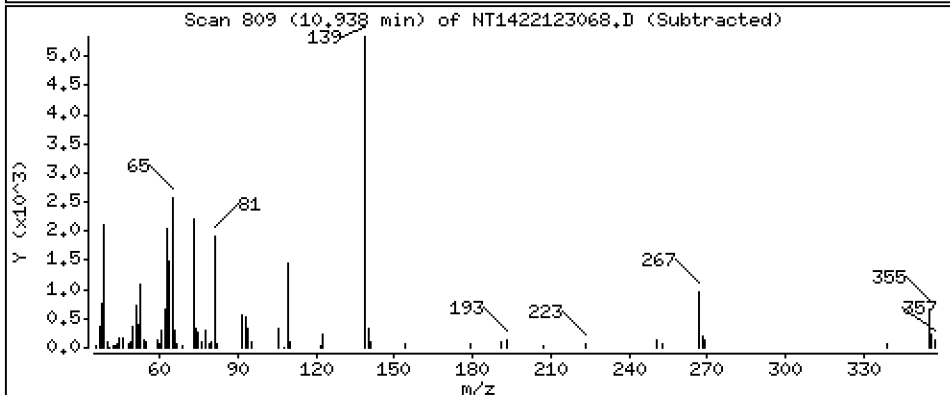
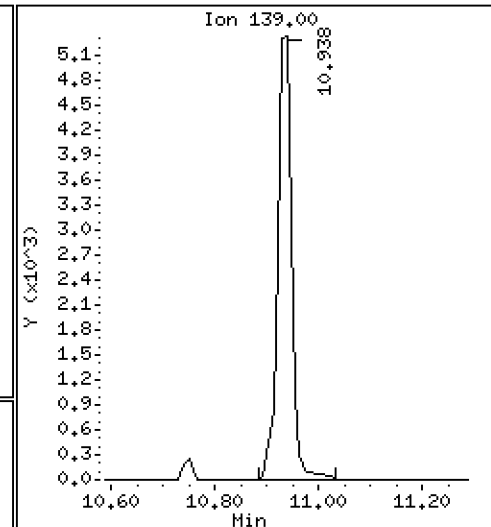
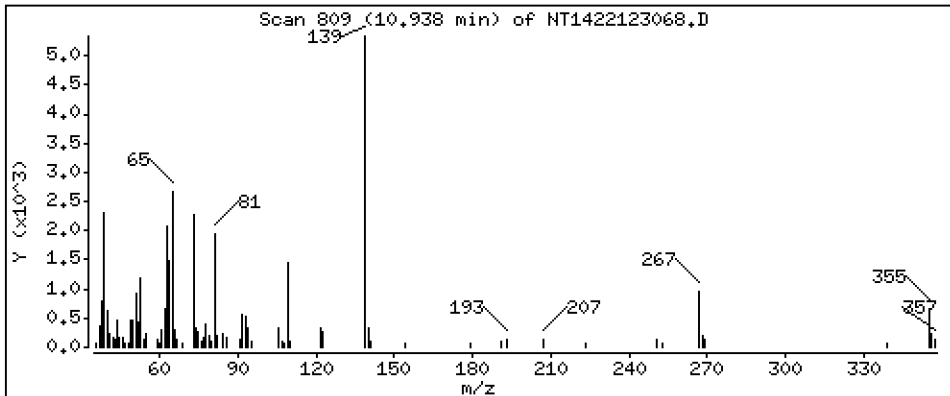
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4732 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

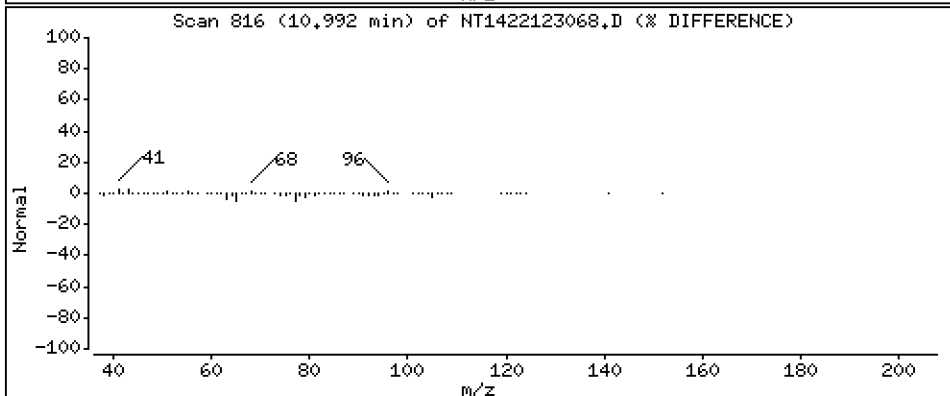
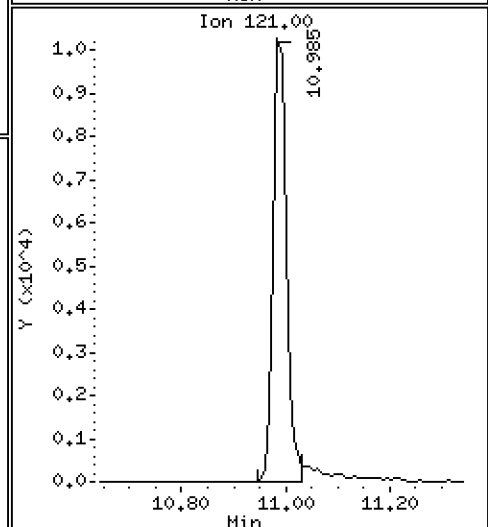
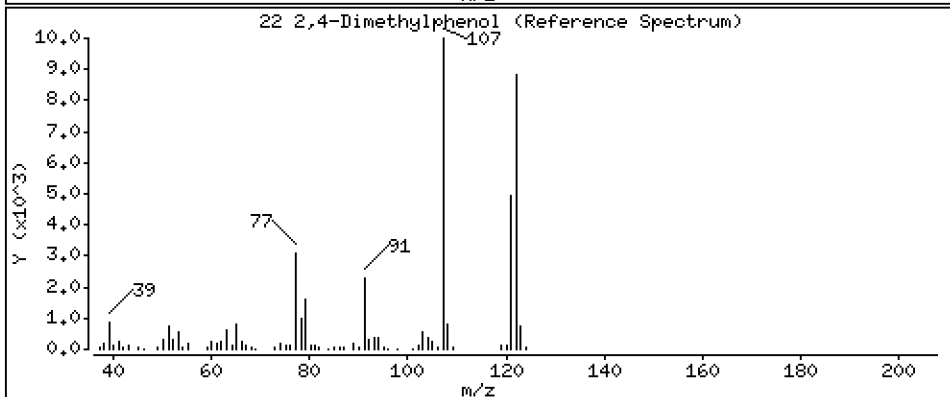
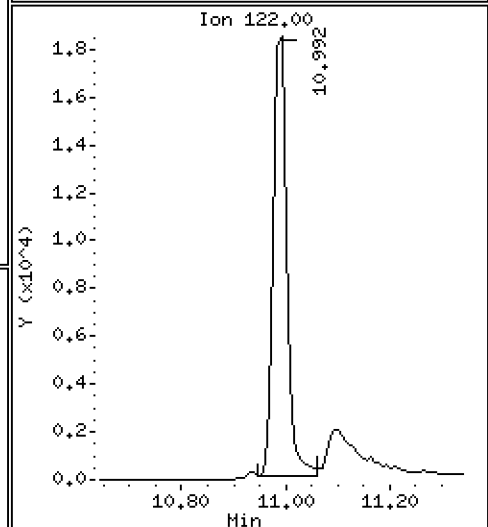
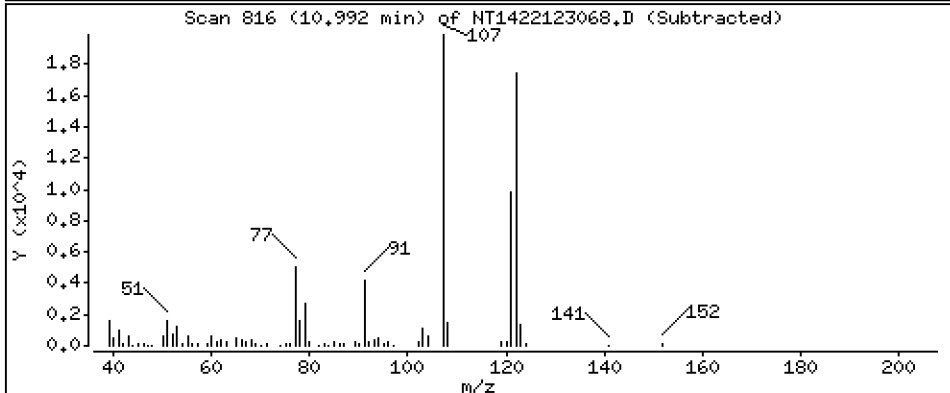
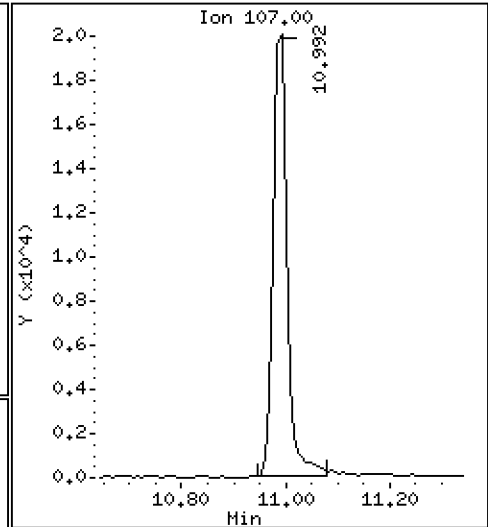
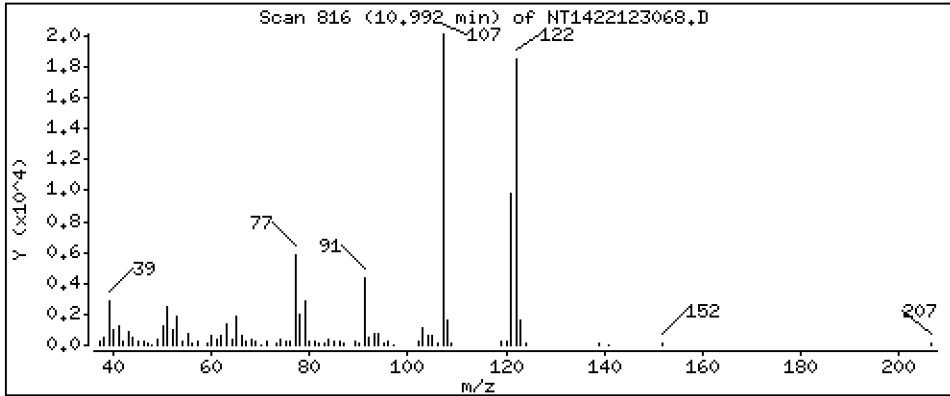
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

22 2,4-Dimethylphenol

Concentration: 0.9769 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

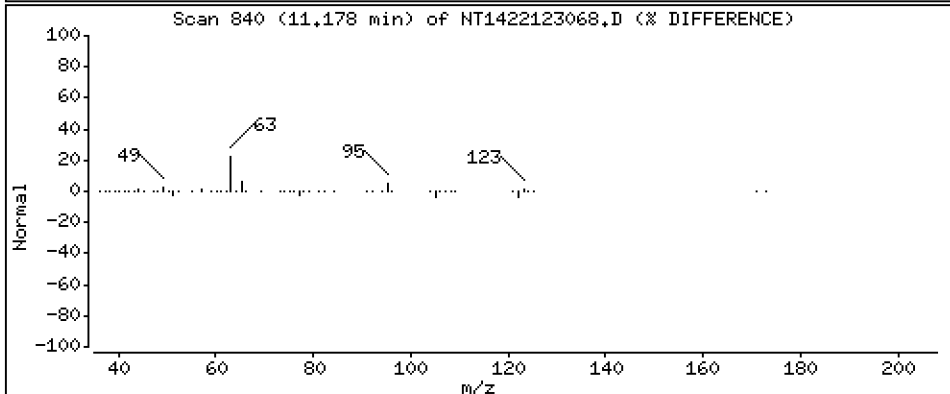
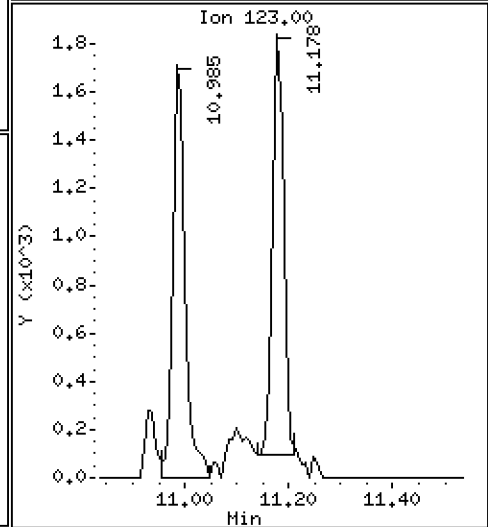
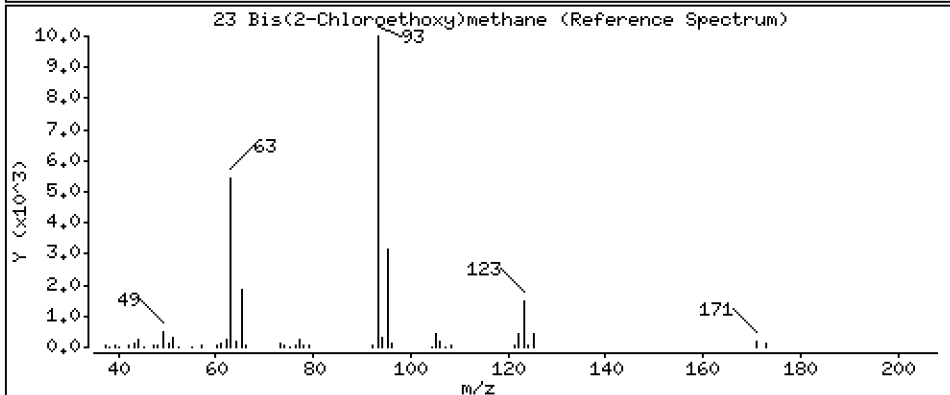
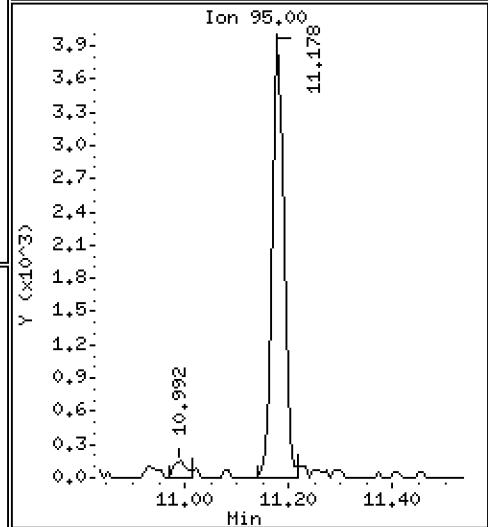
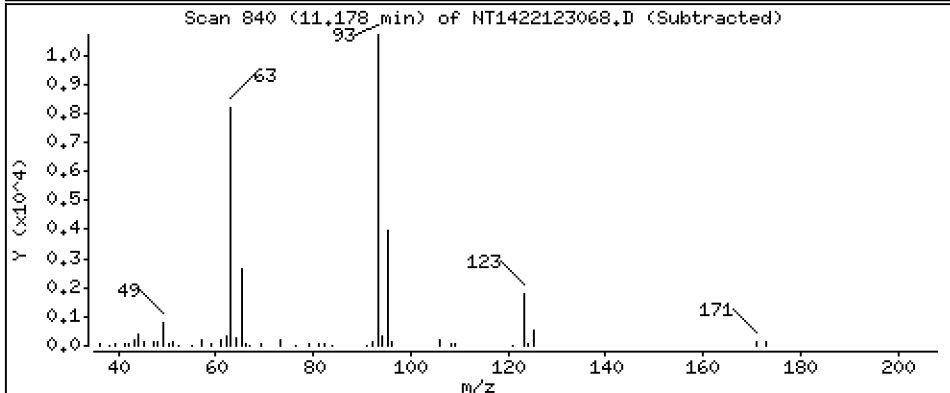
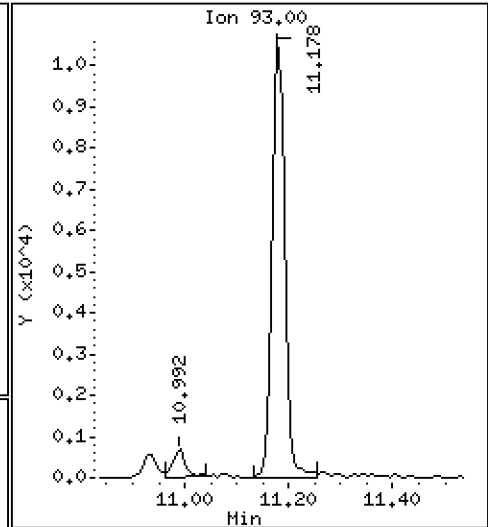
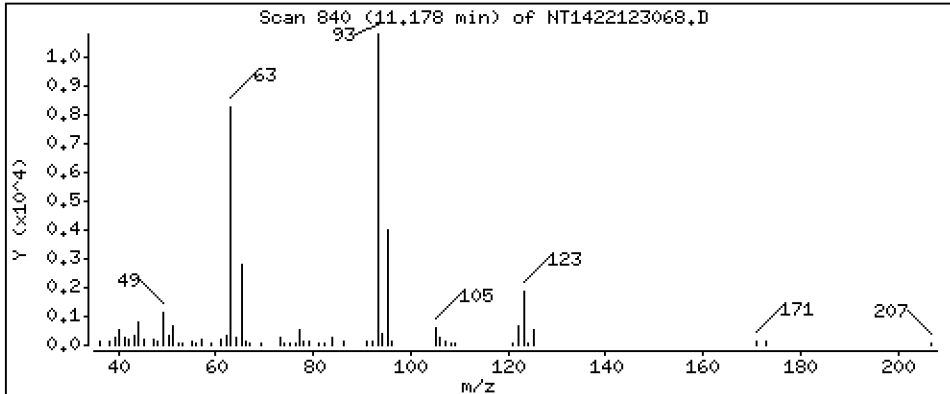
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.4949 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

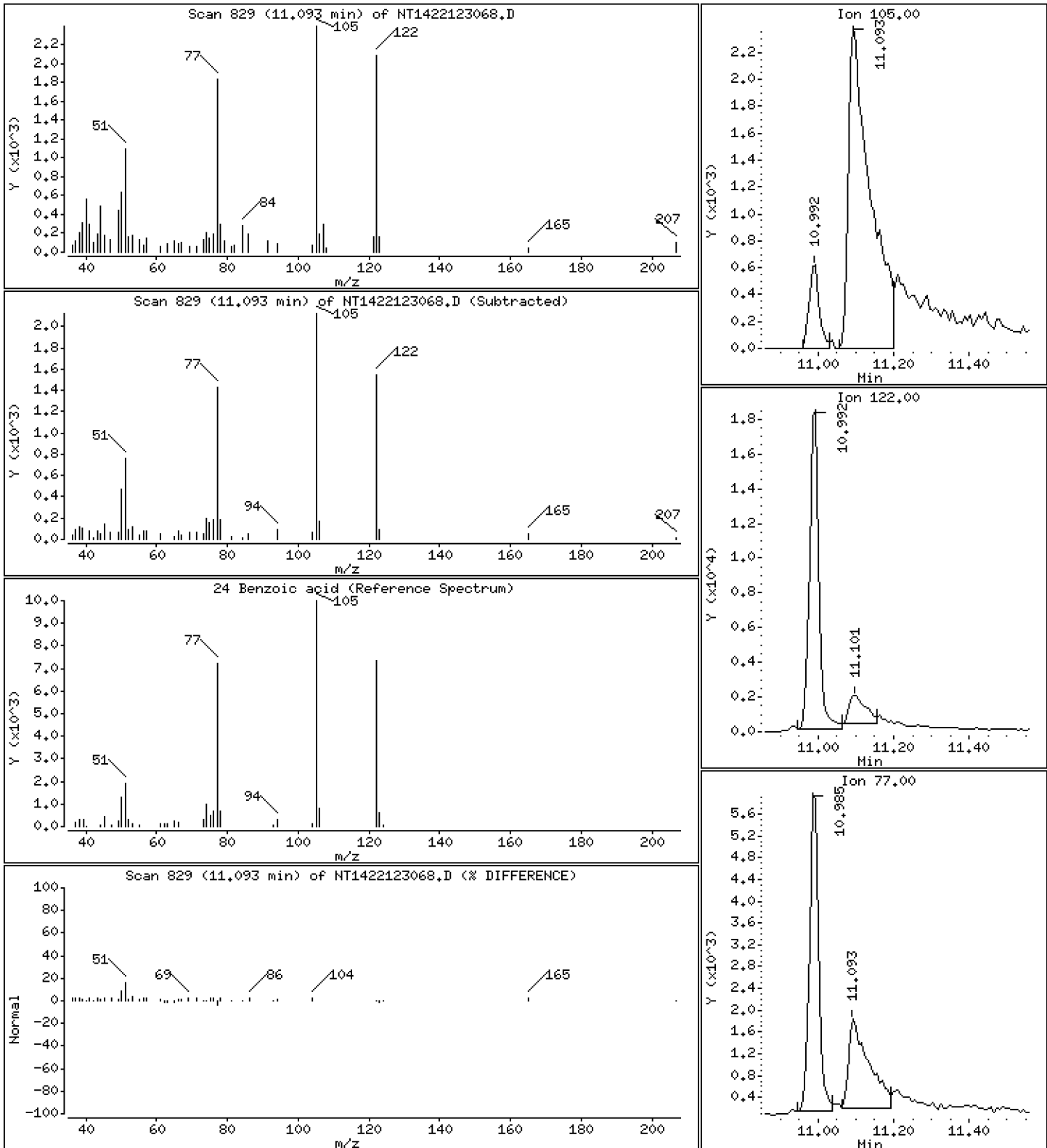
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4477 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

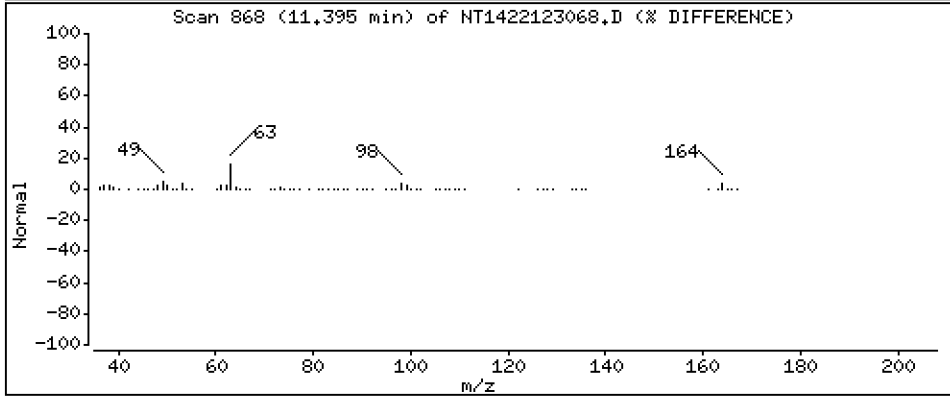
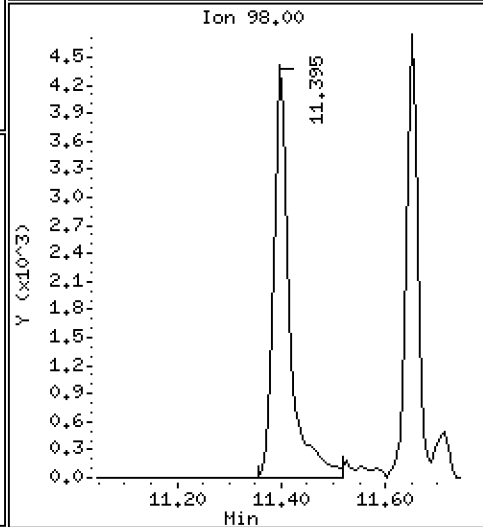
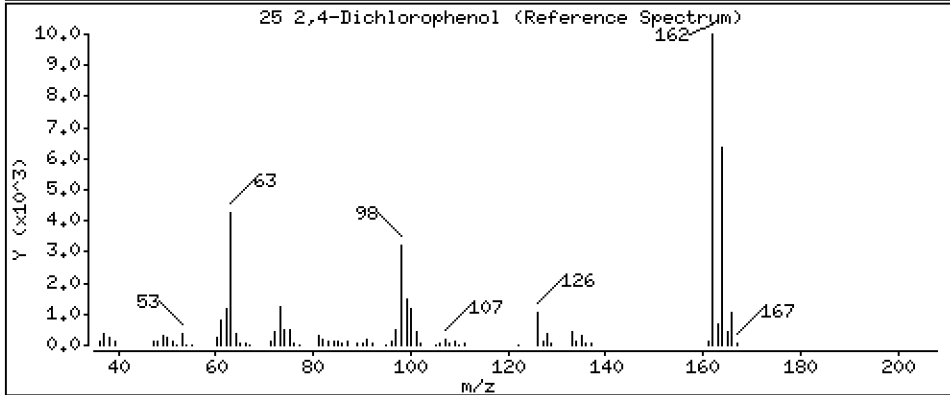
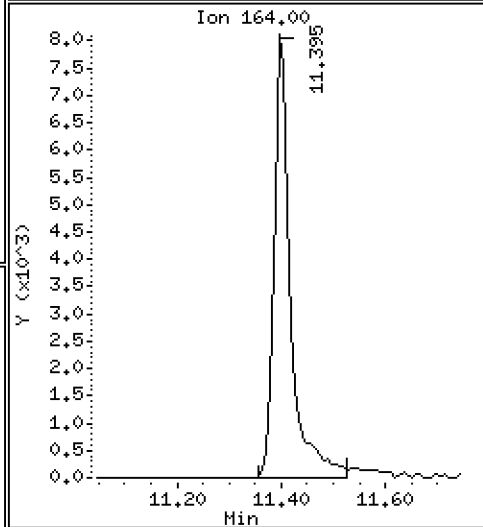
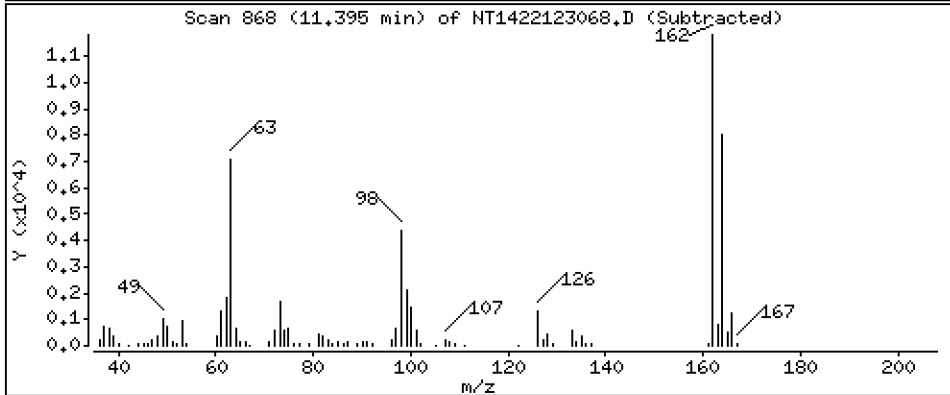
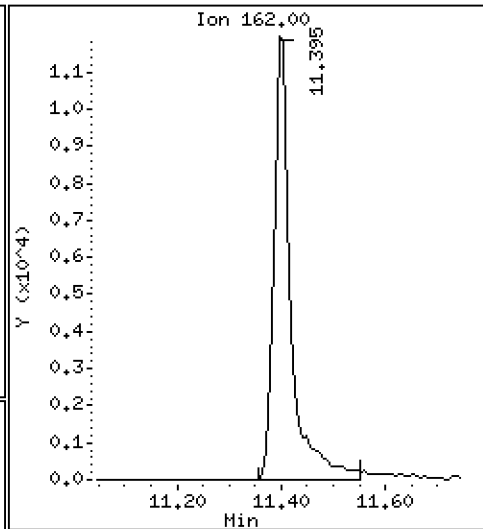
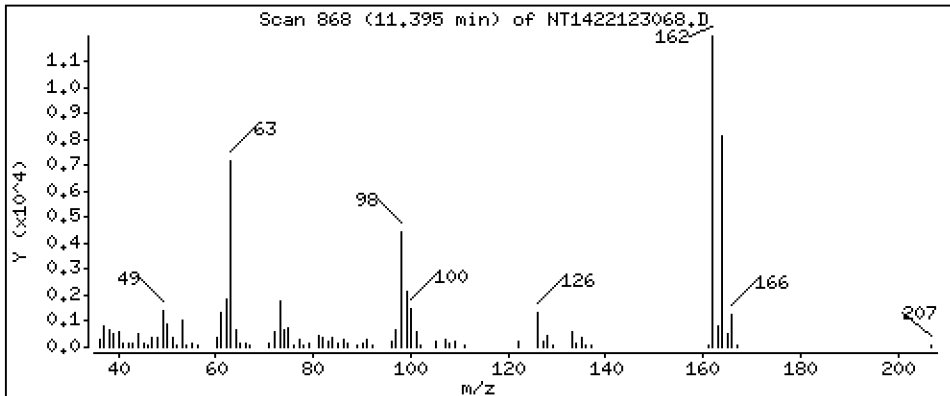
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,9599 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

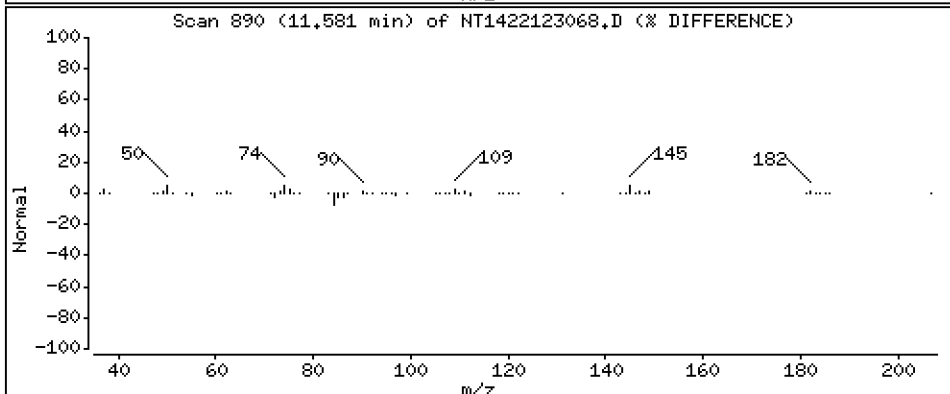
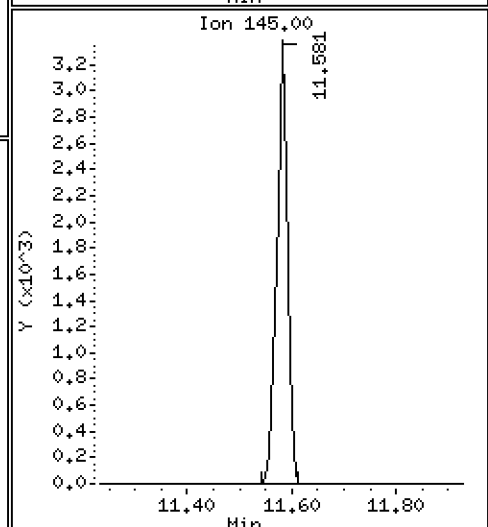
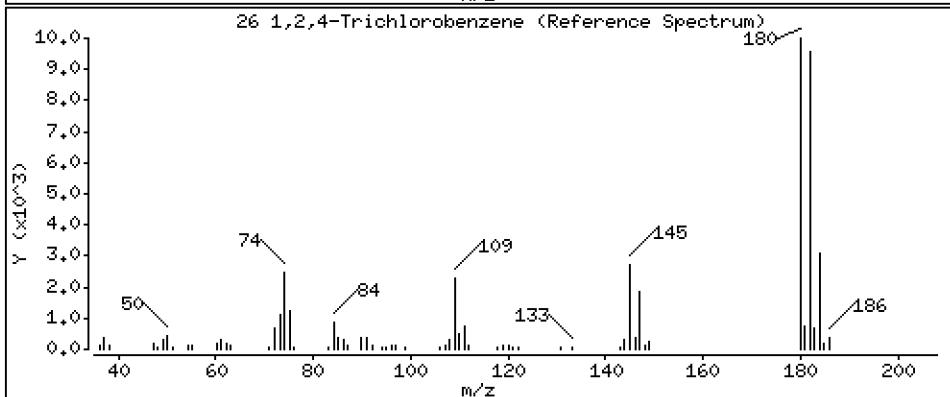
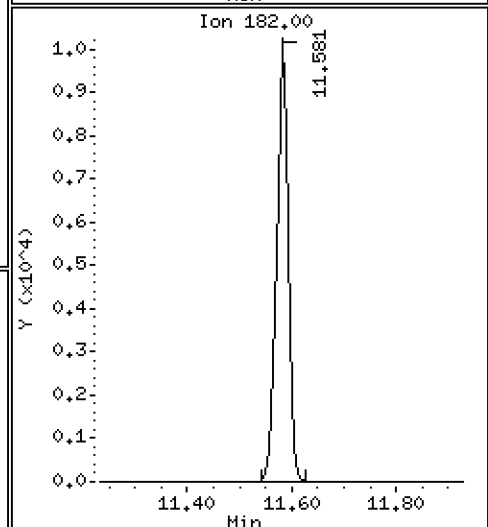
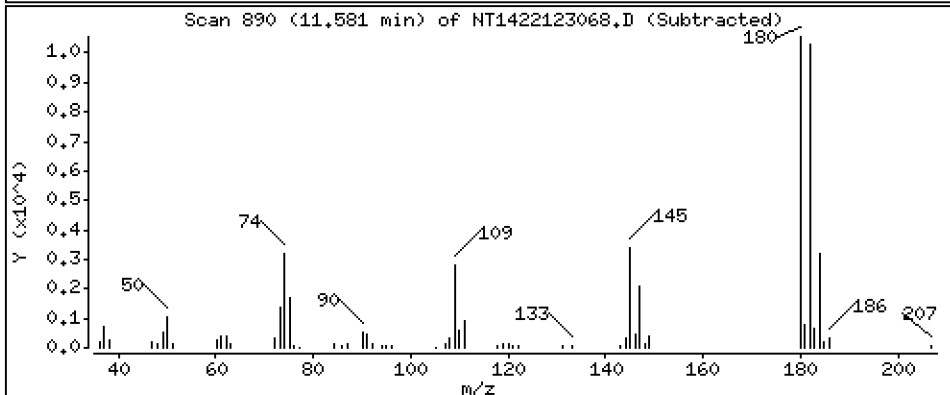
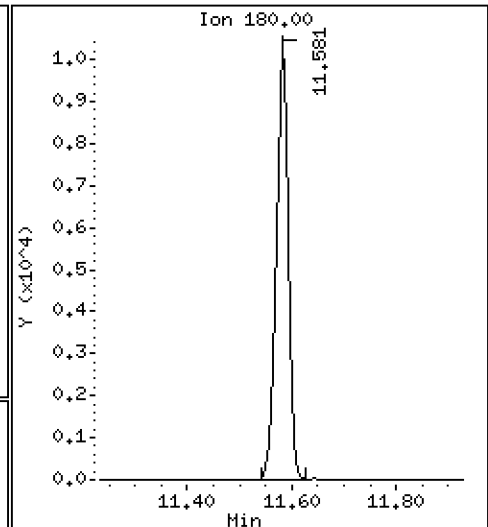
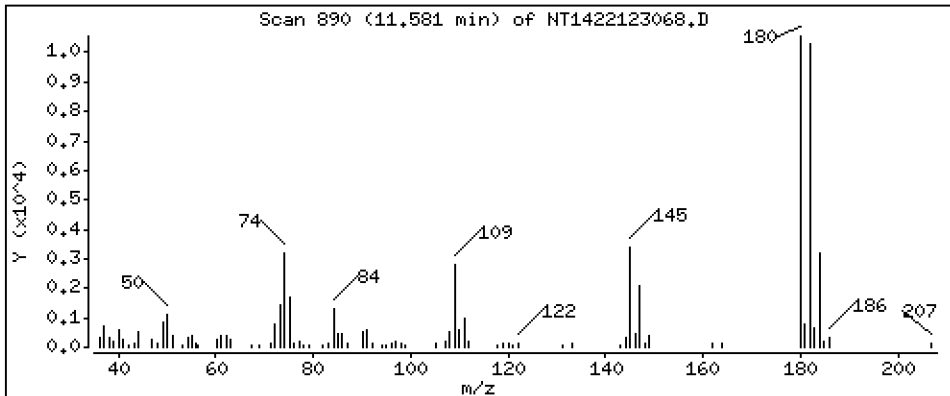
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

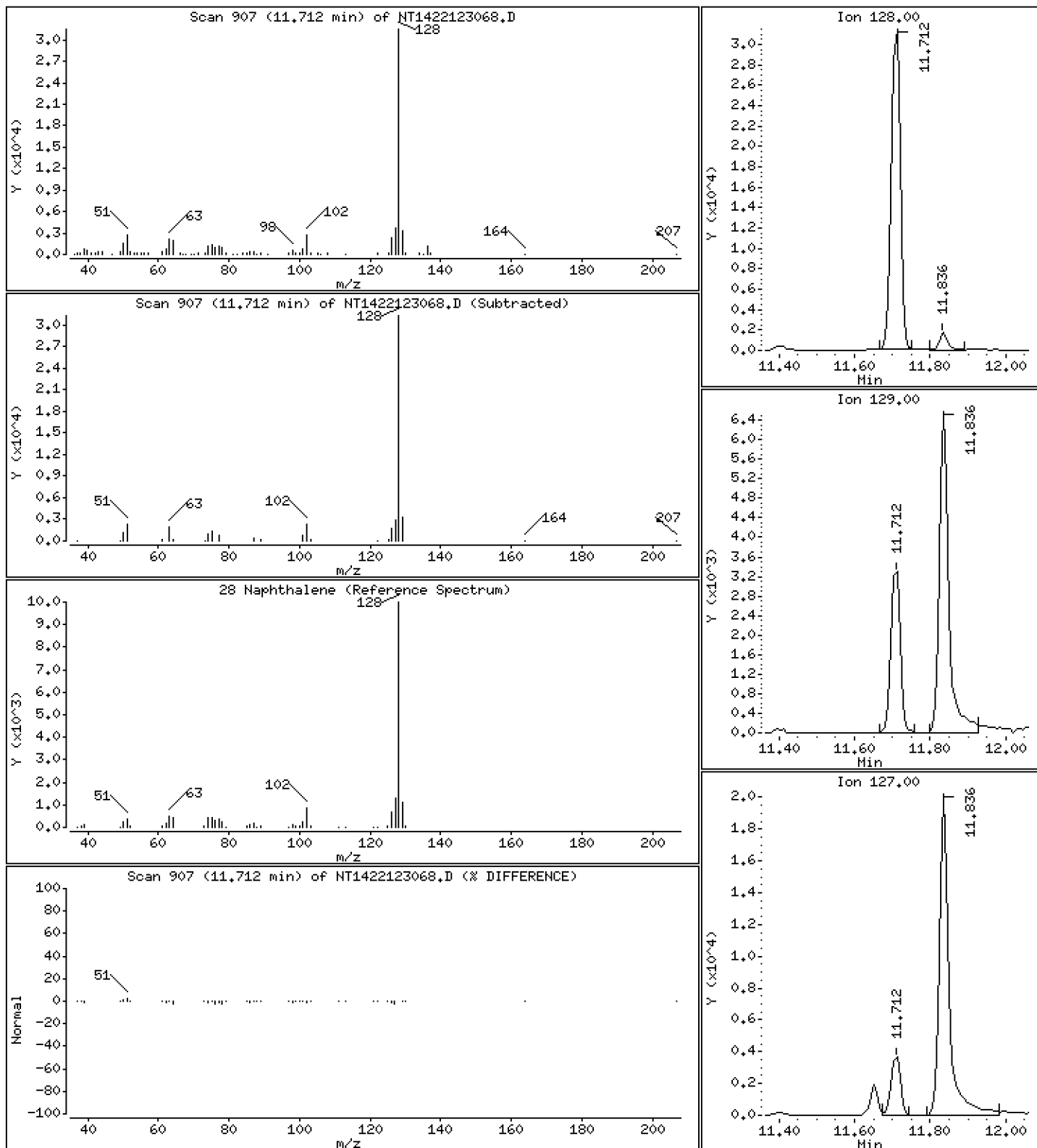
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,4854 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

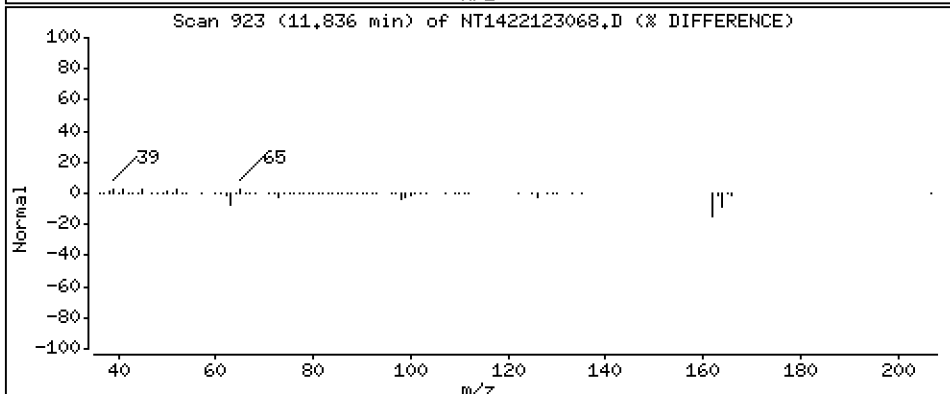
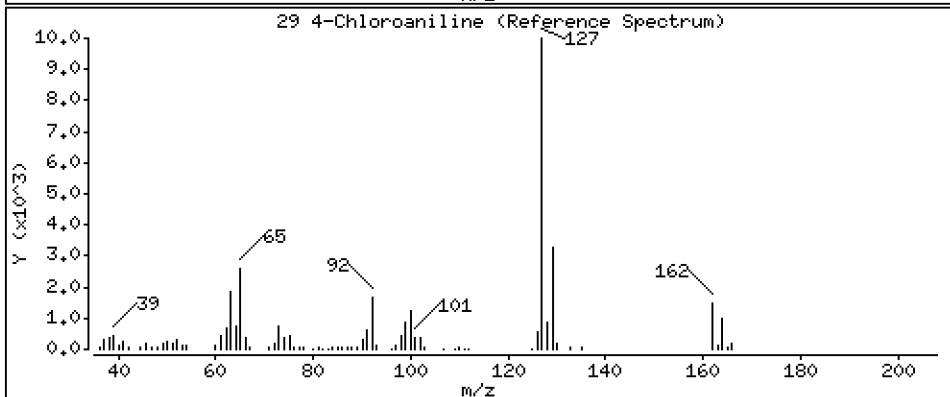
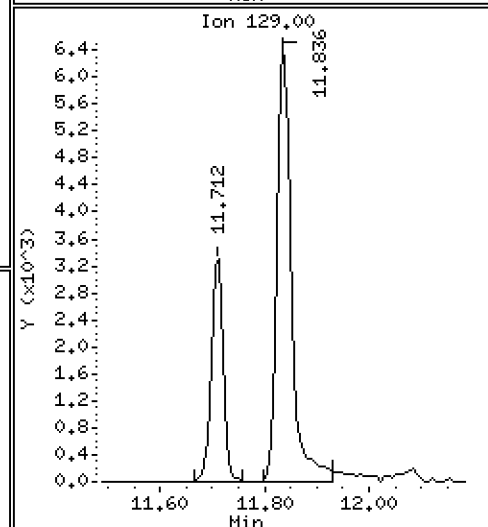
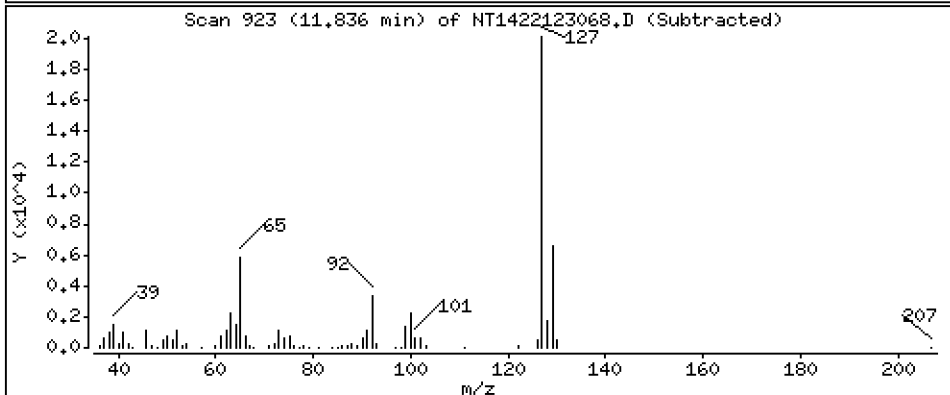
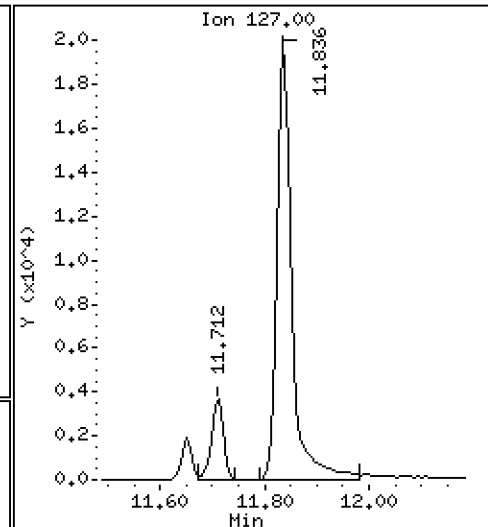
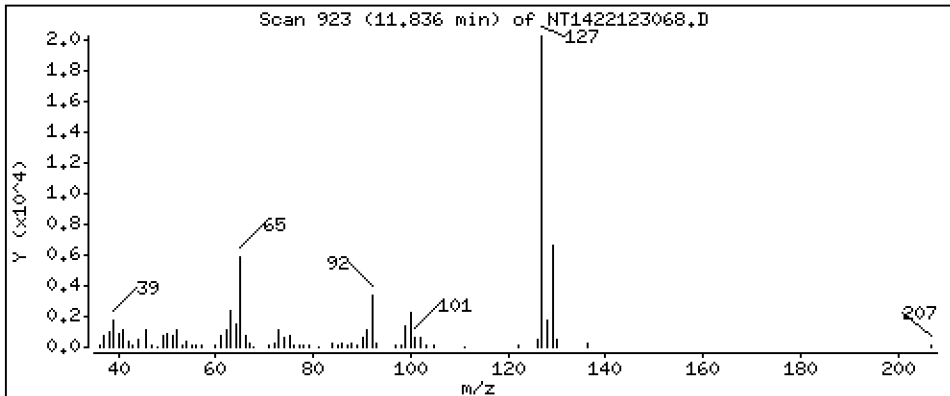
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8885 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

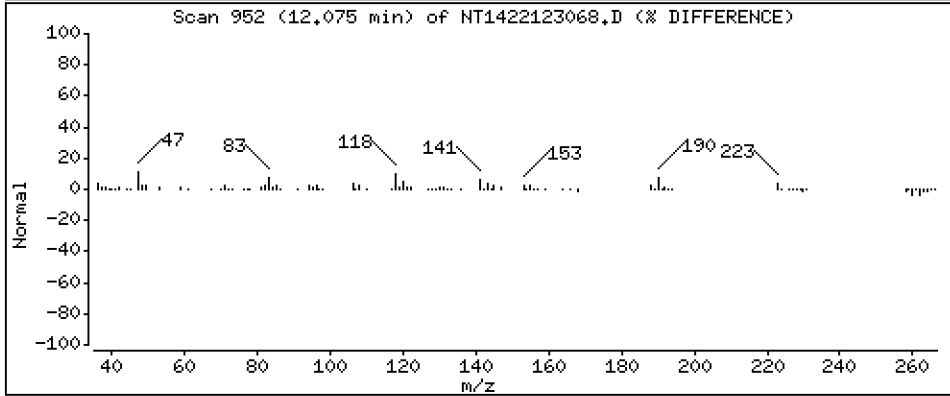
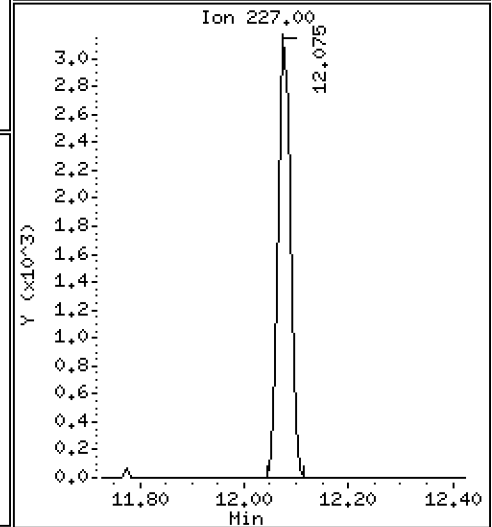
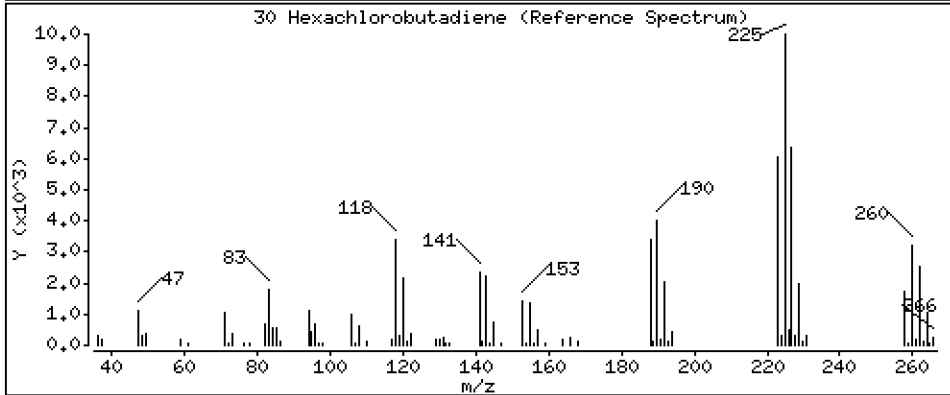
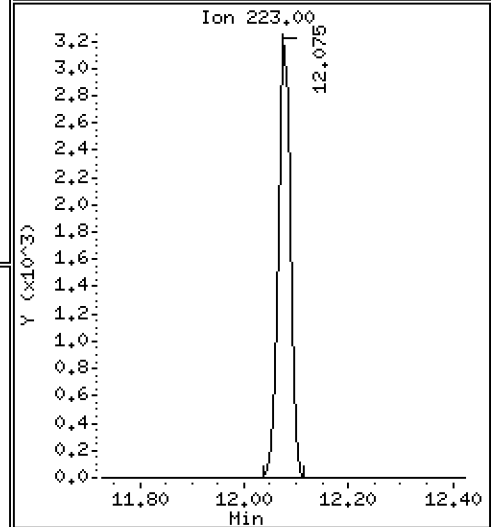
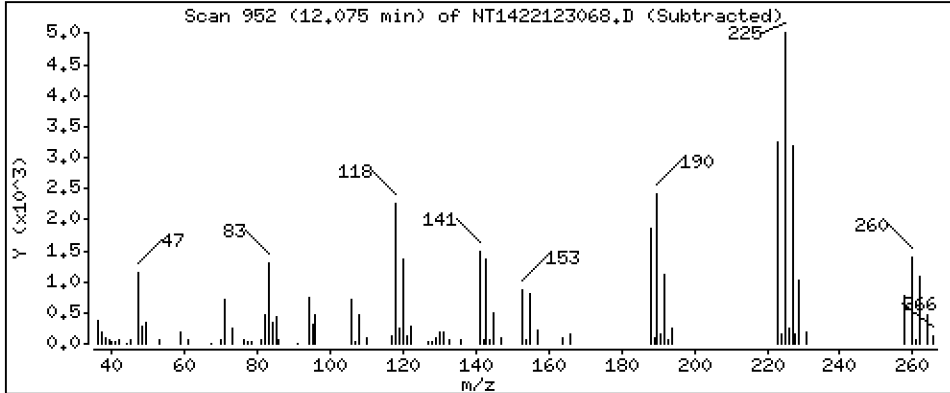
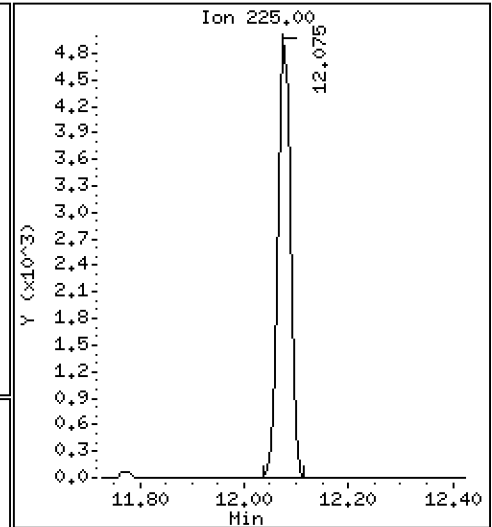
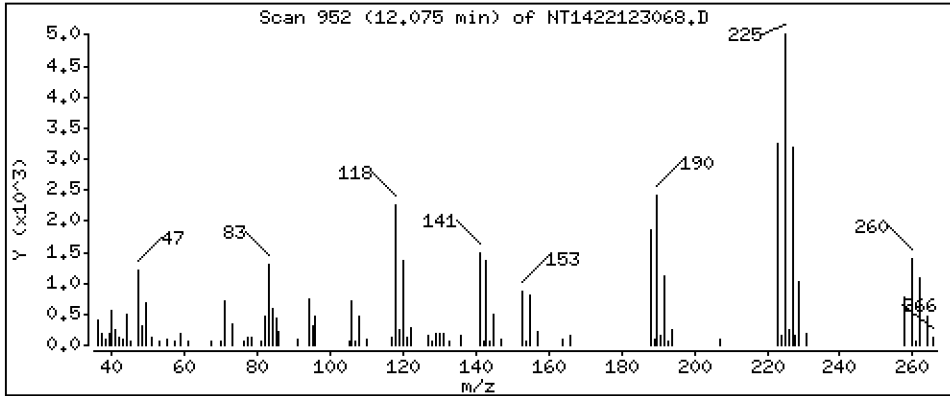
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4777 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

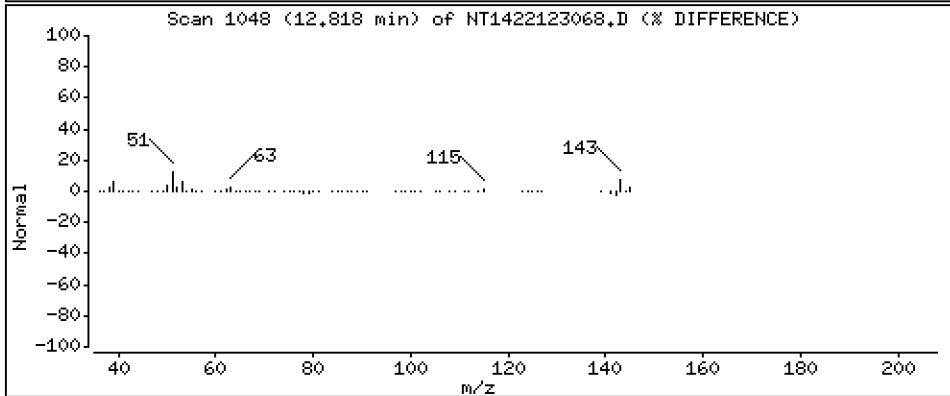
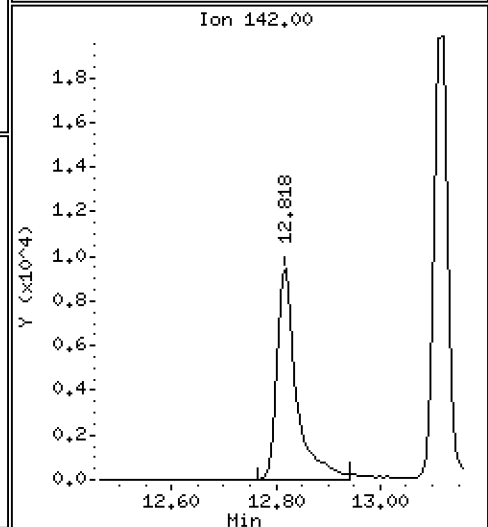
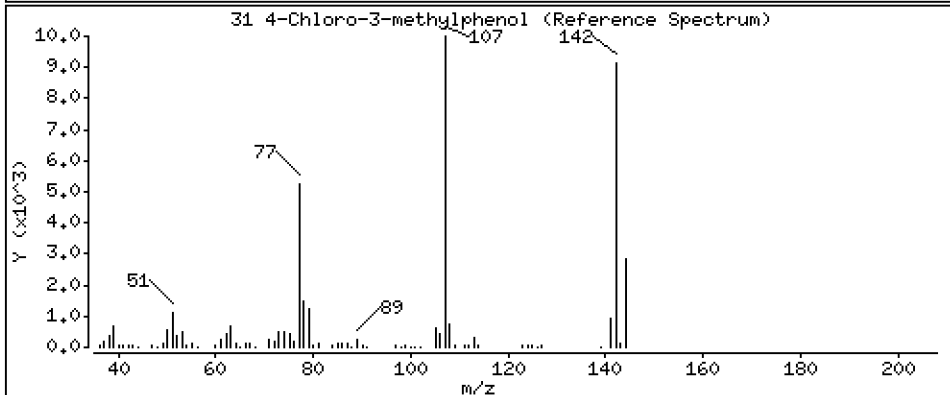
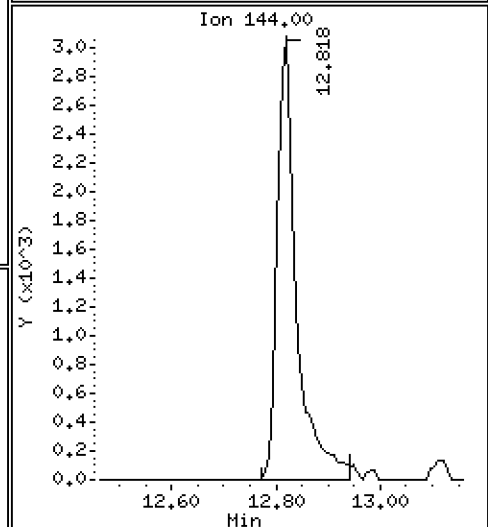
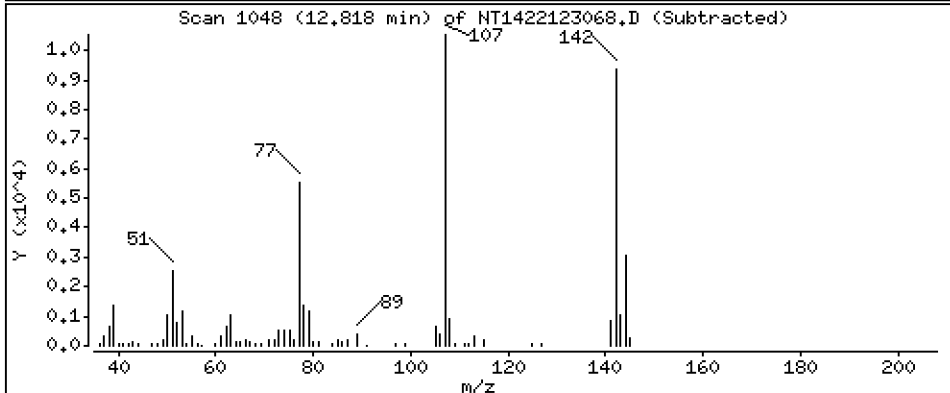
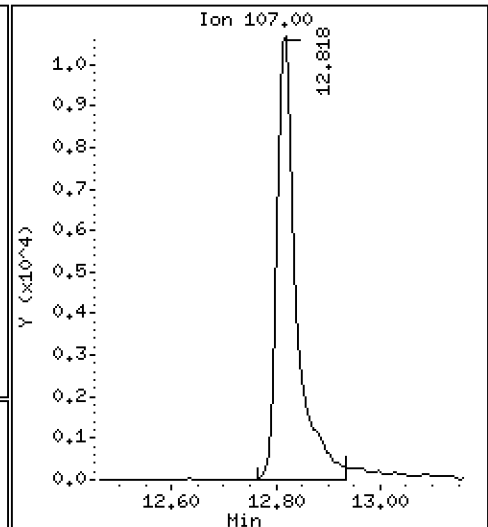
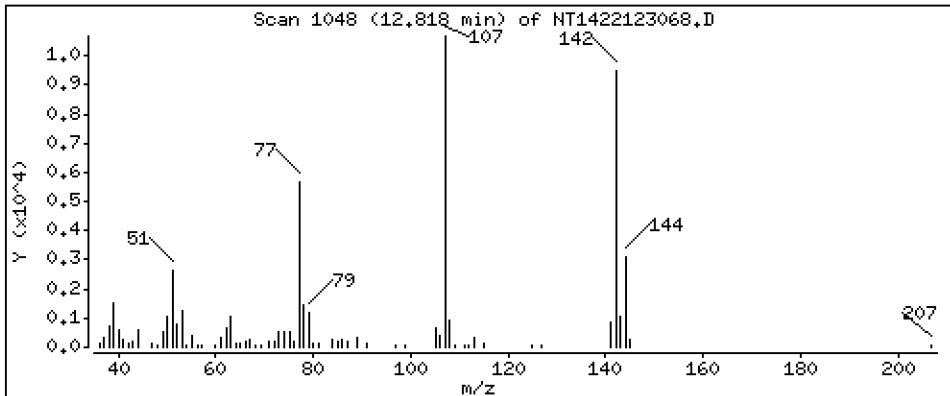
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9495 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

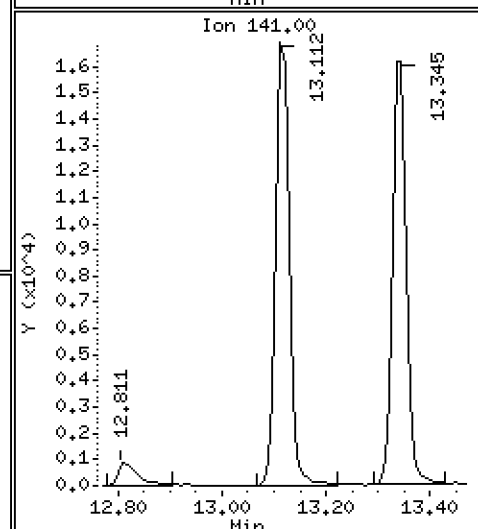
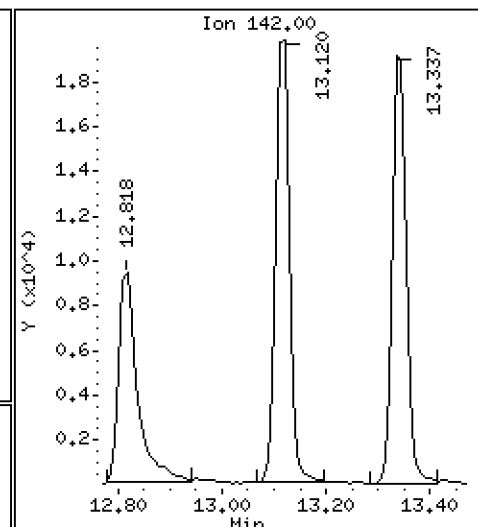
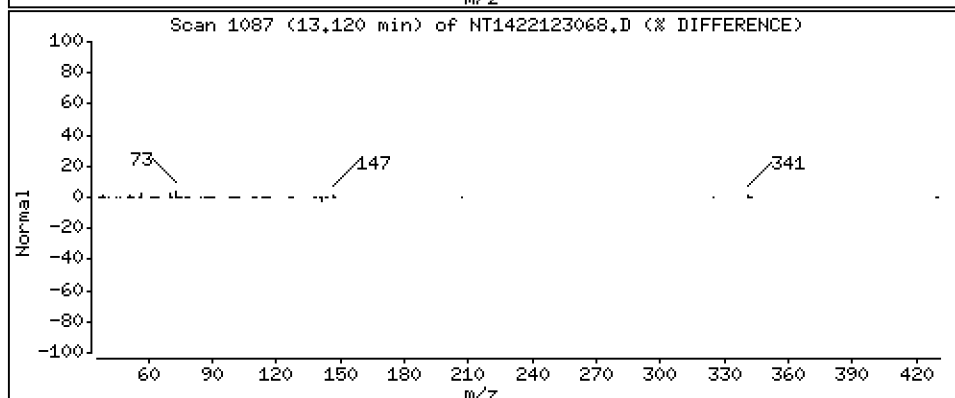
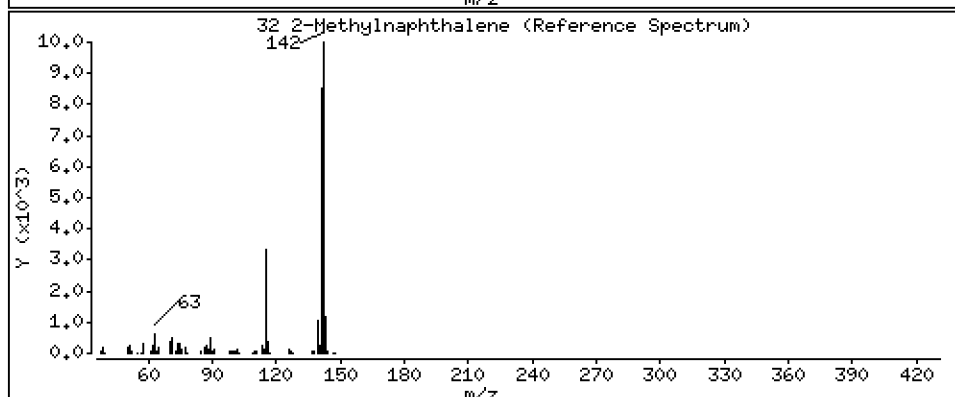
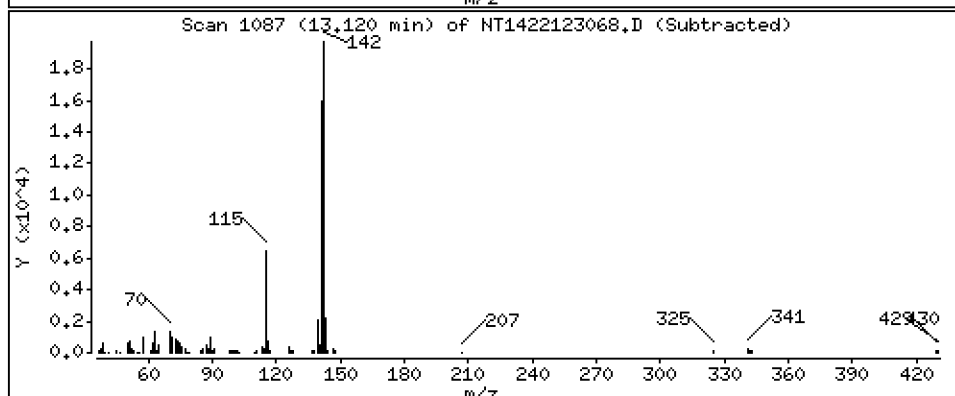
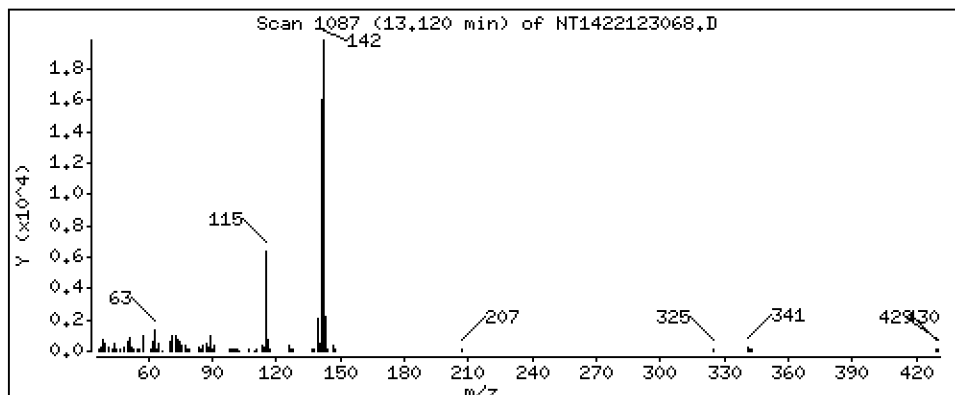
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4656 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

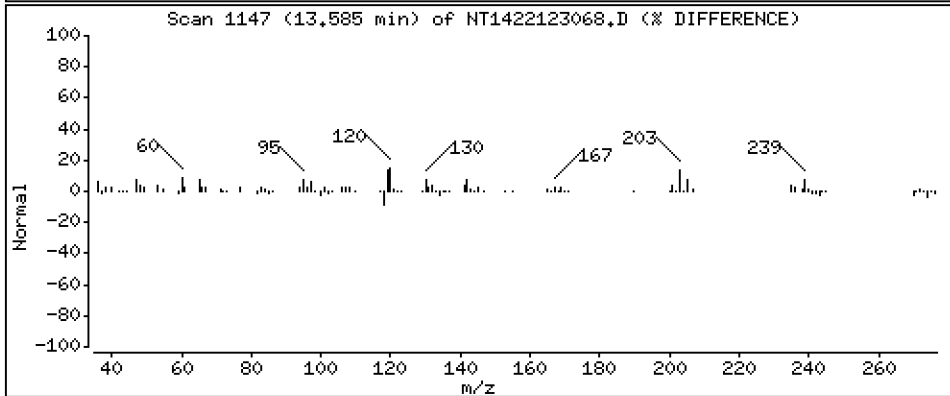
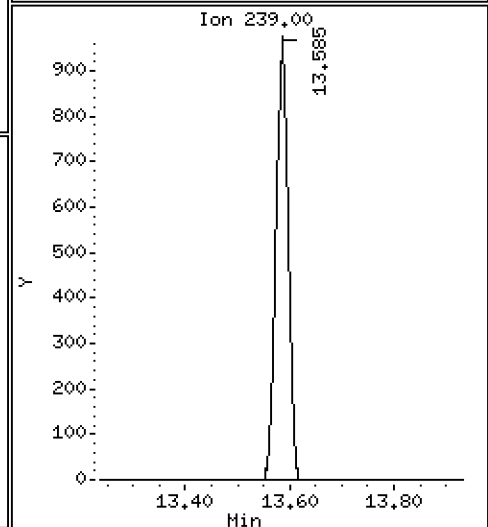
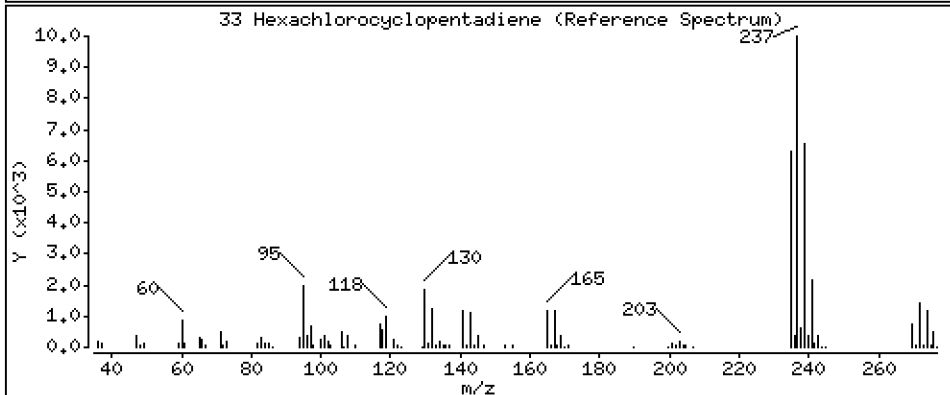
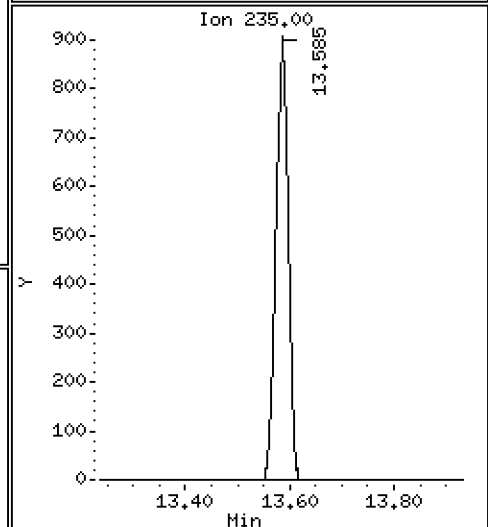
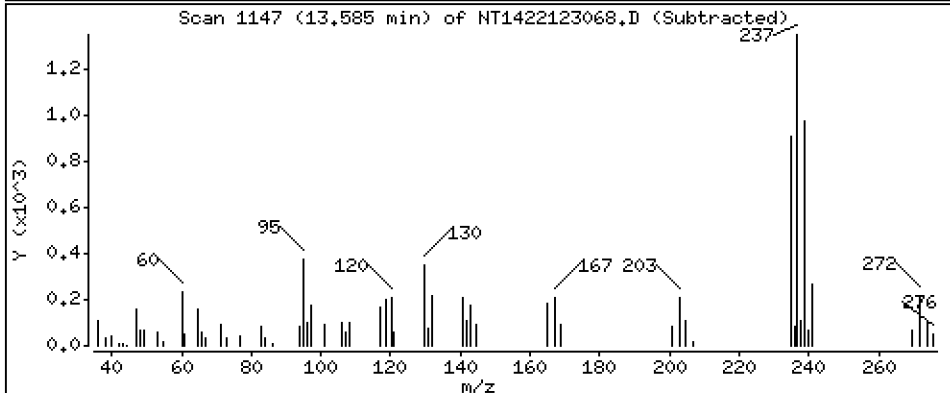
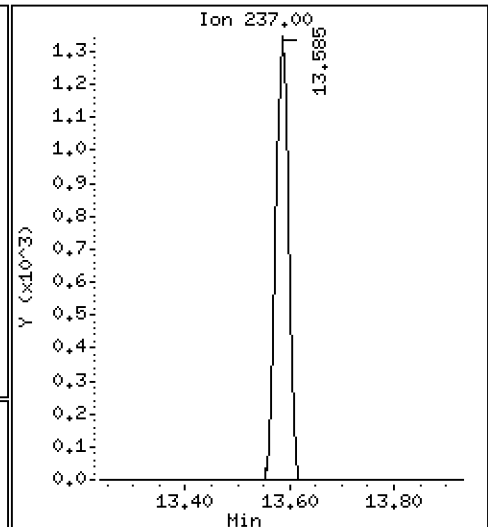
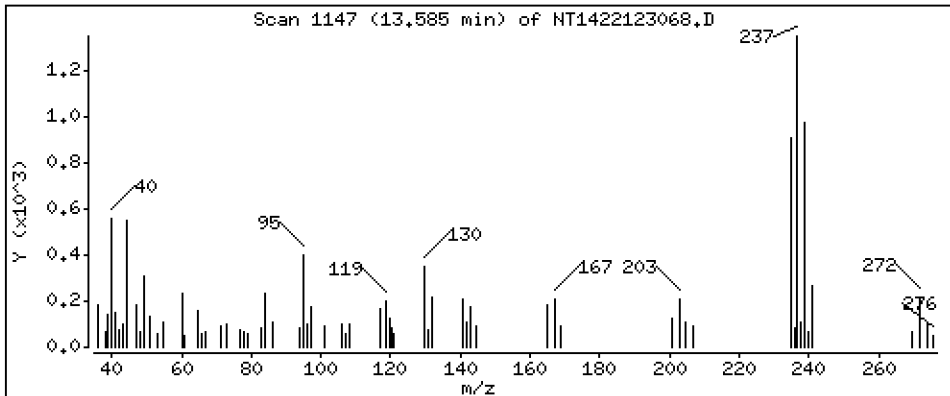
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,1373 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

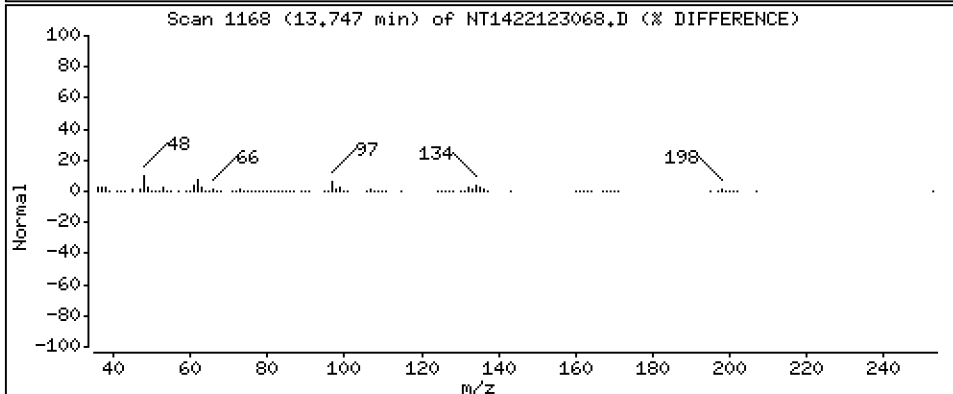
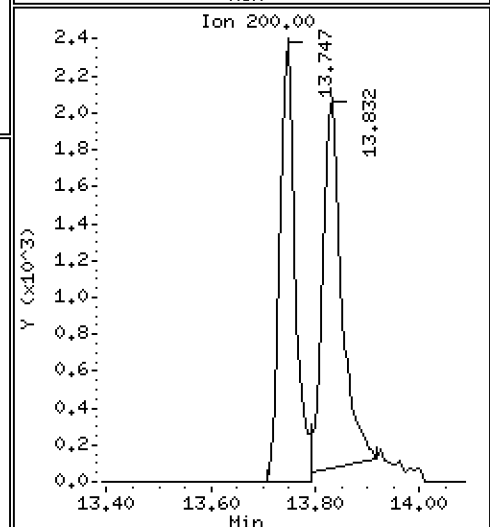
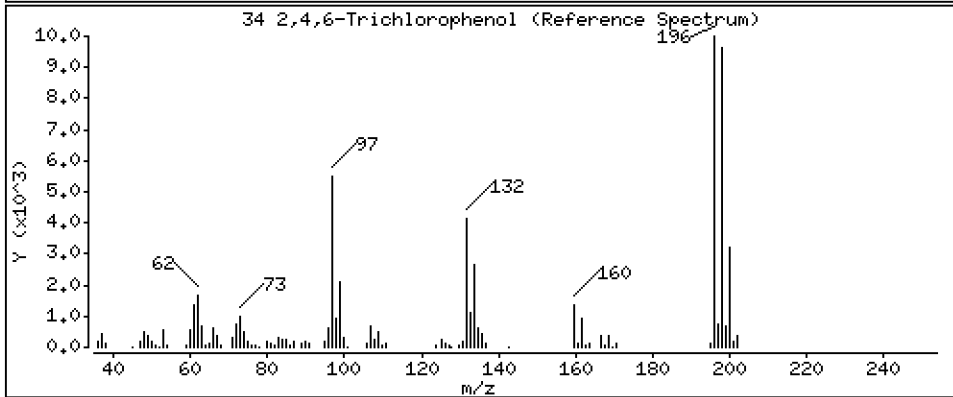
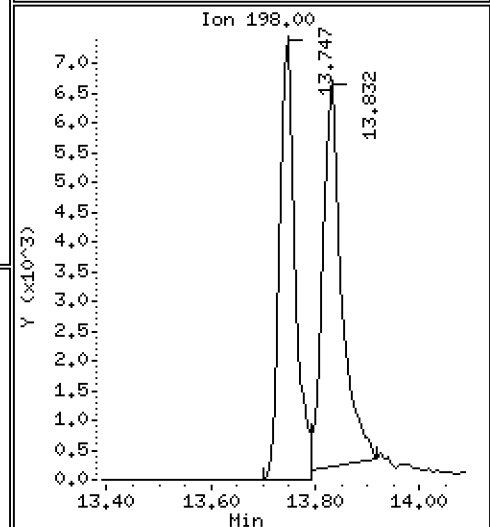
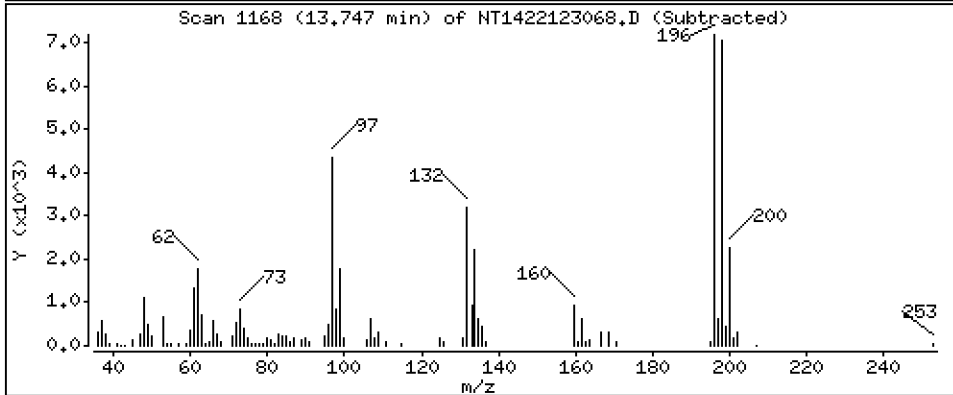
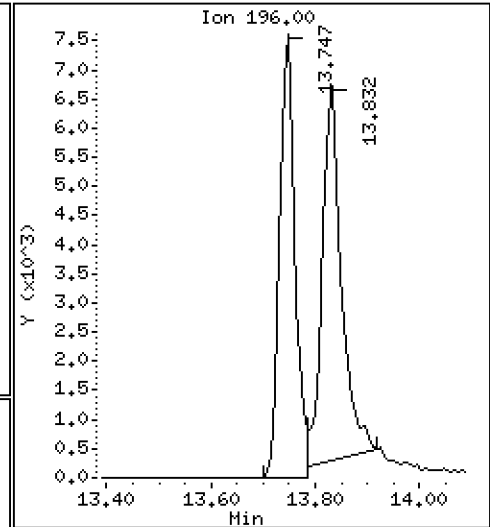
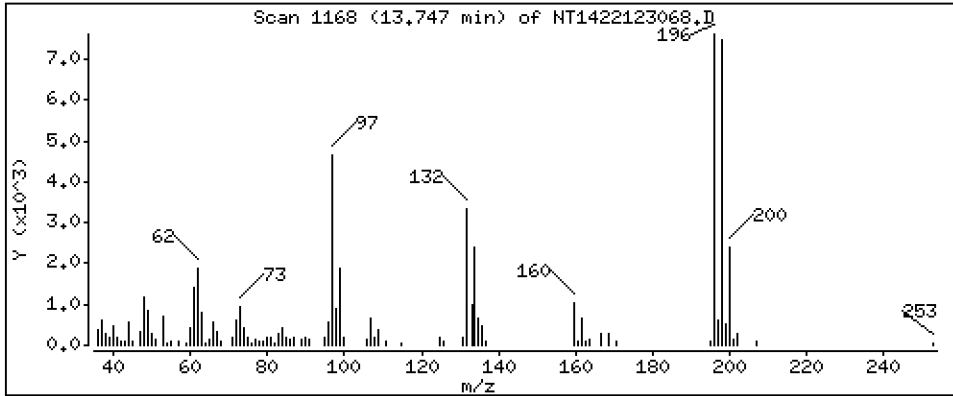
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8738 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

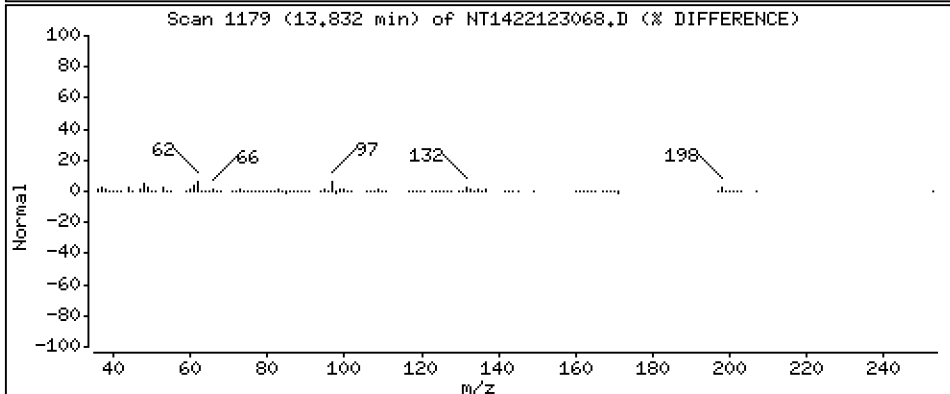
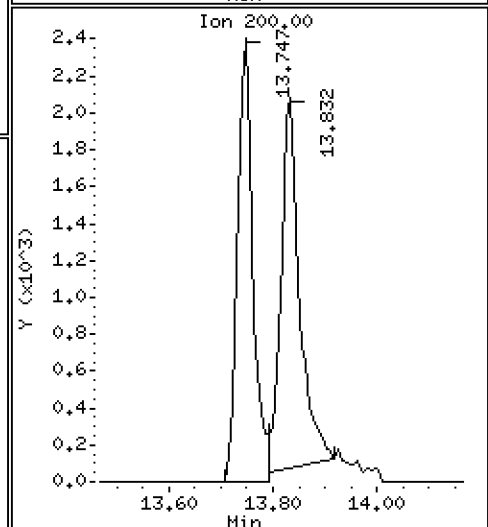
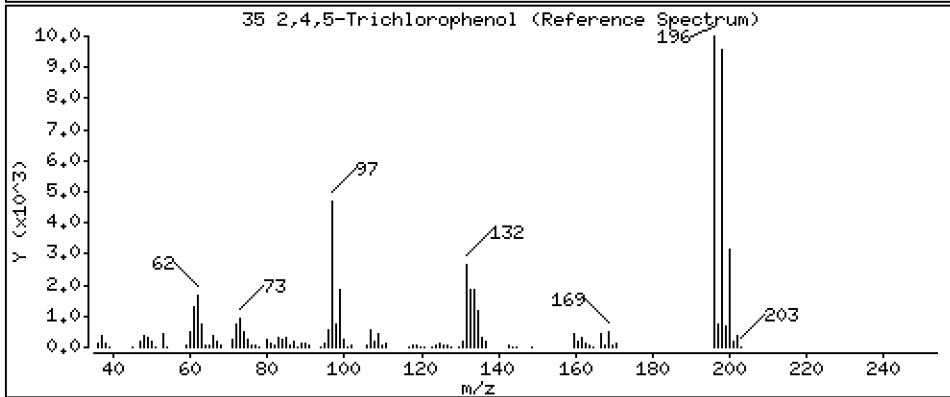
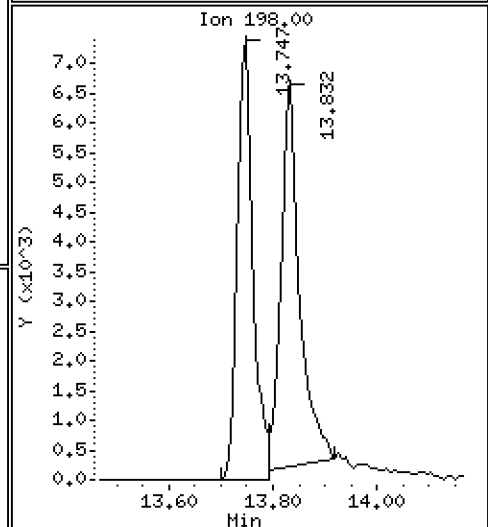
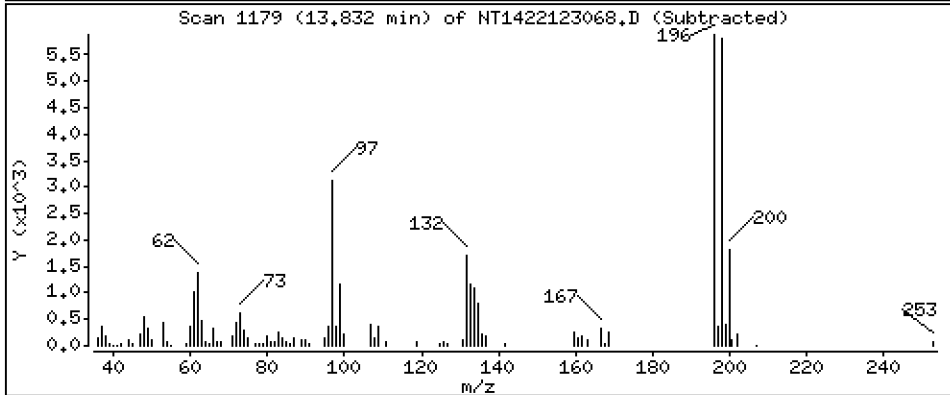
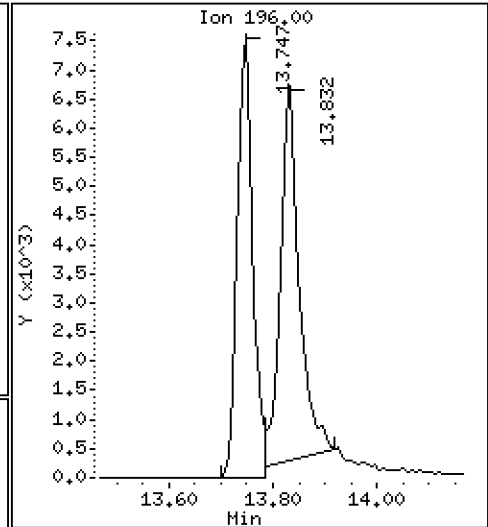
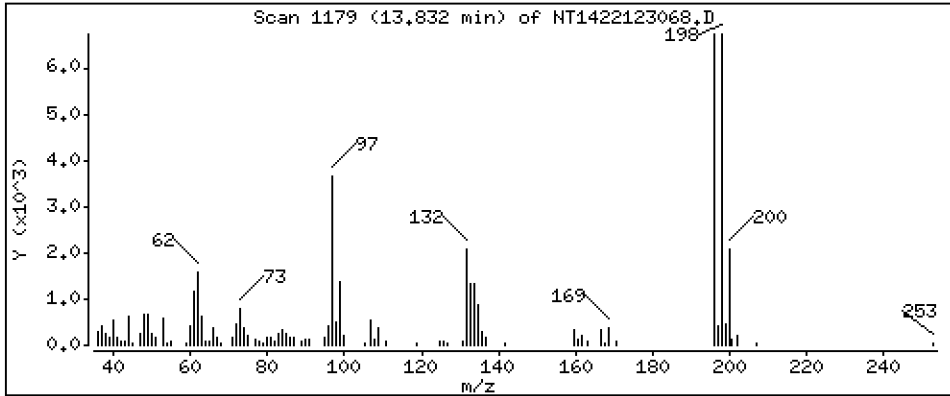
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8019 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

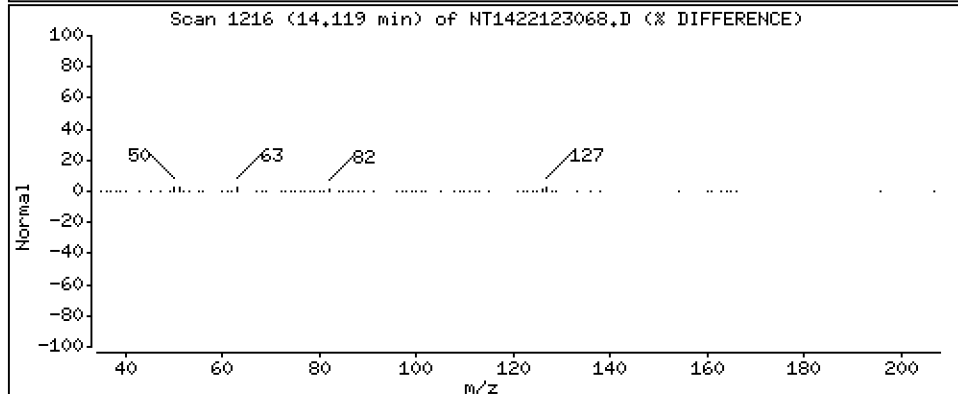
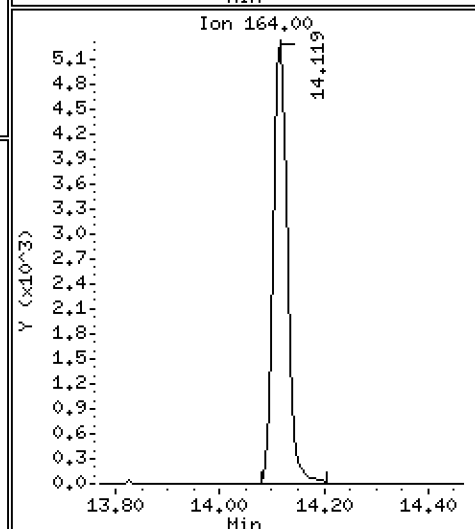
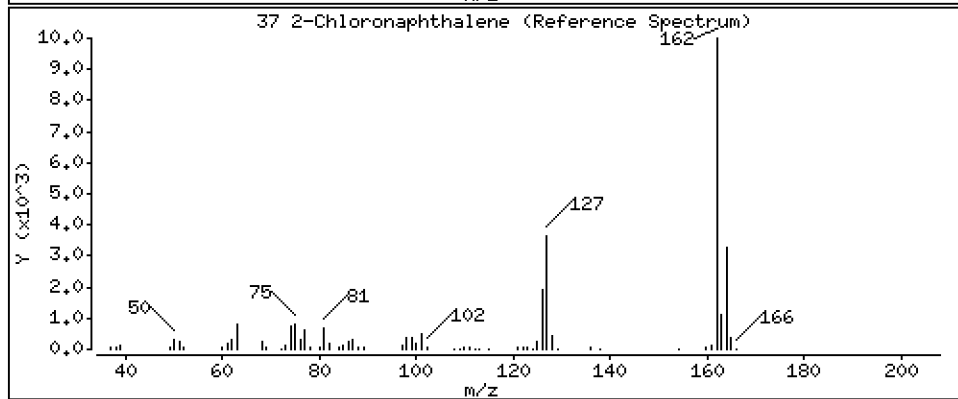
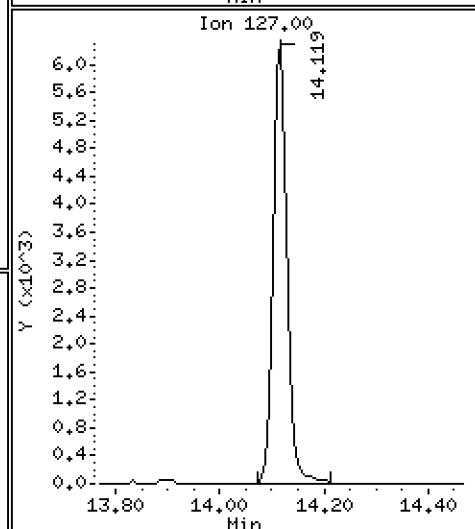
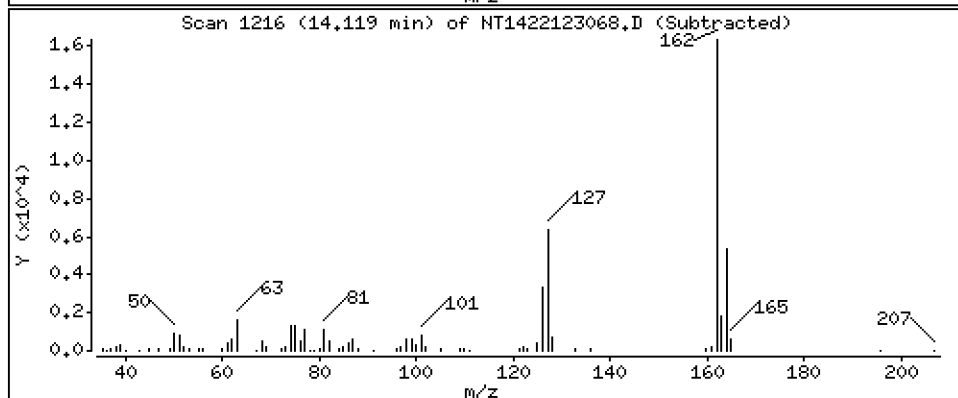
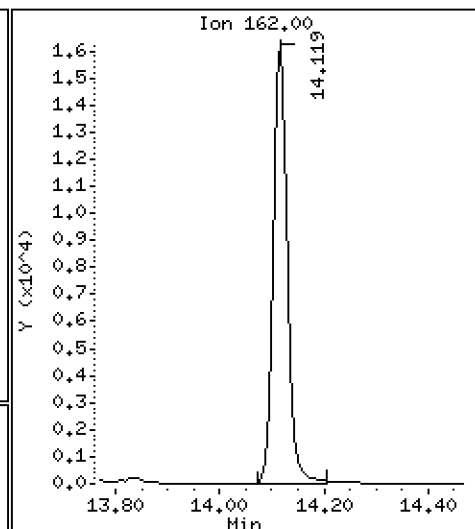
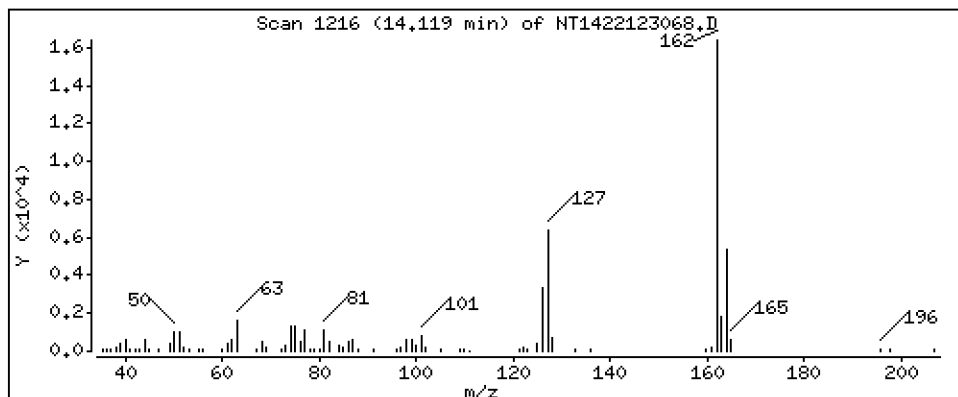
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,4809 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

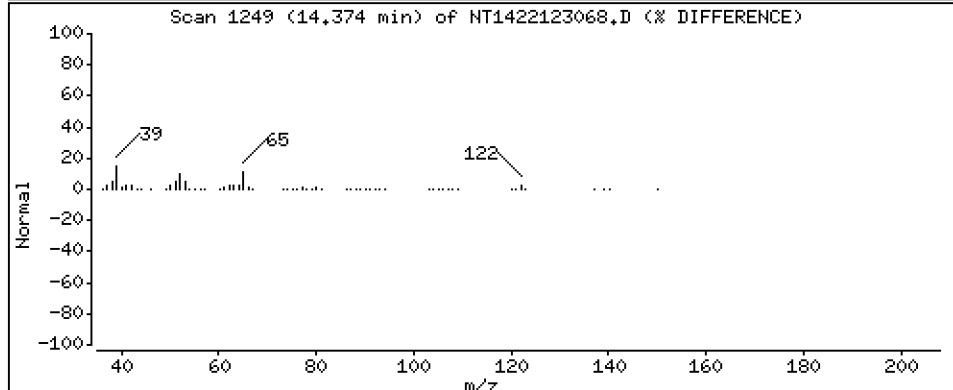
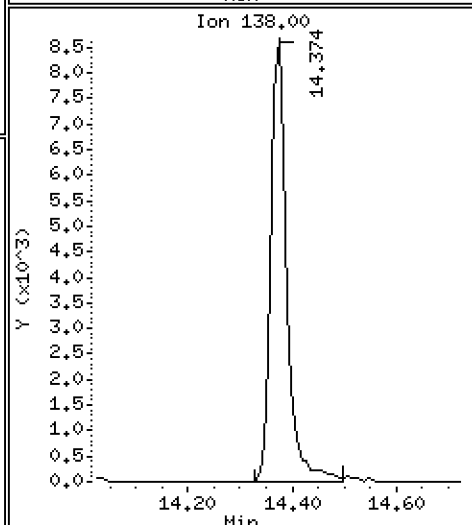
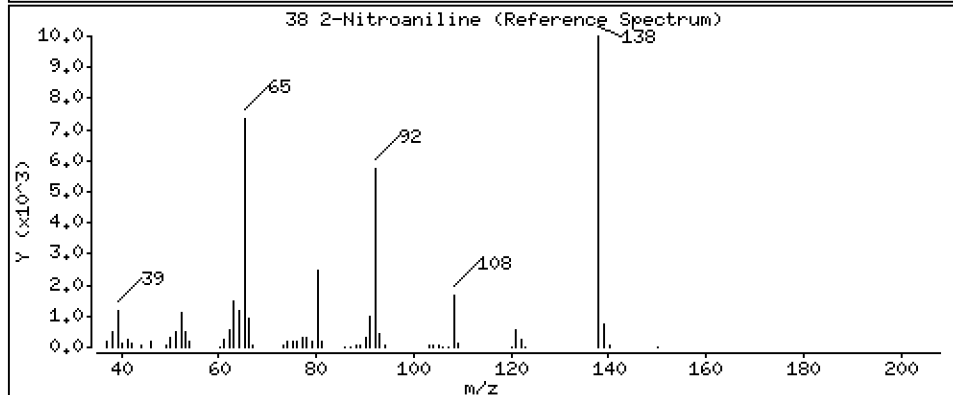
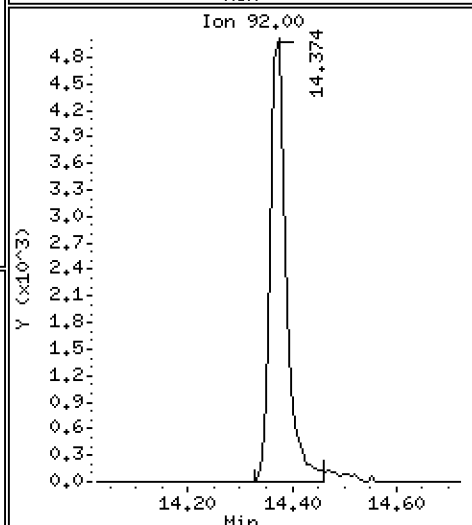
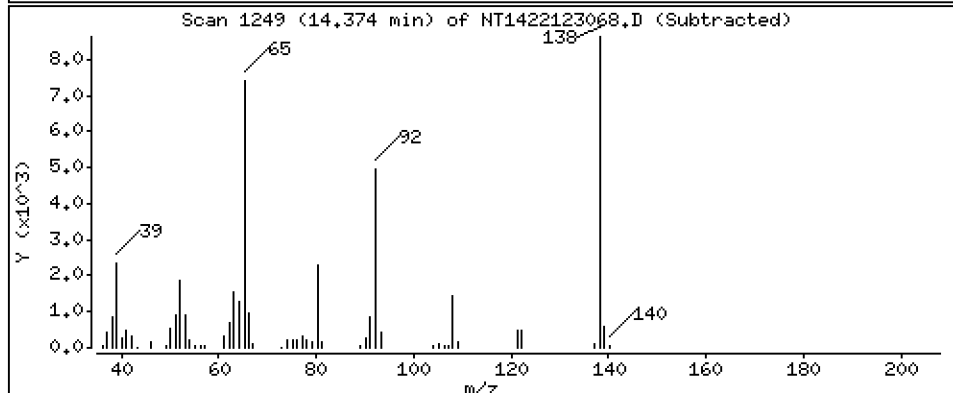
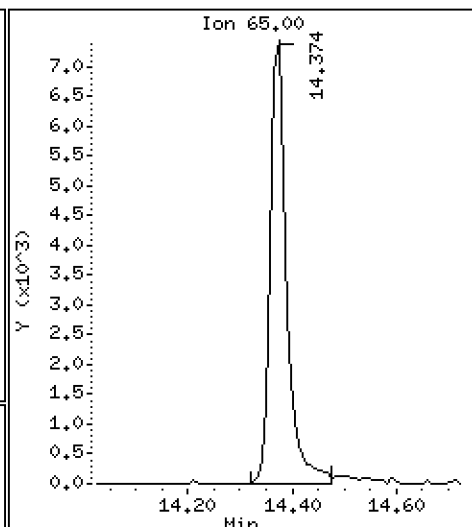
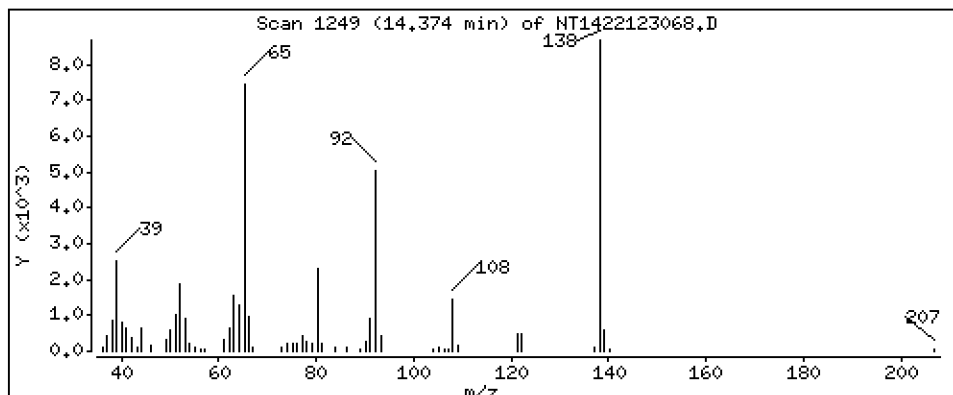
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

38 2-Nitroaniline

Concentration: 0.9872 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

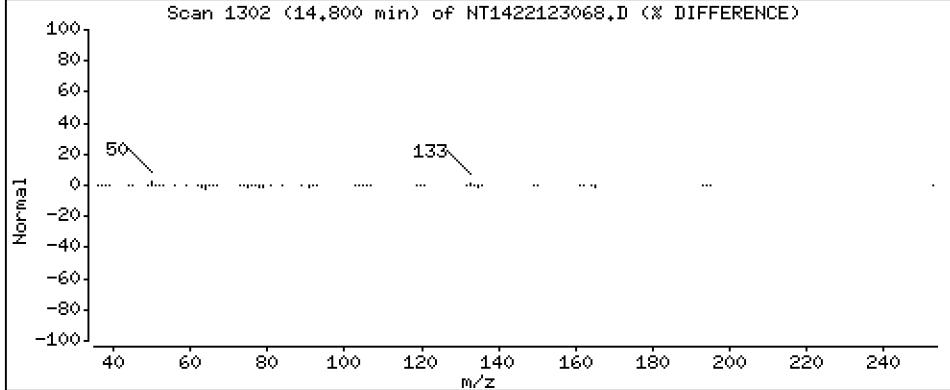
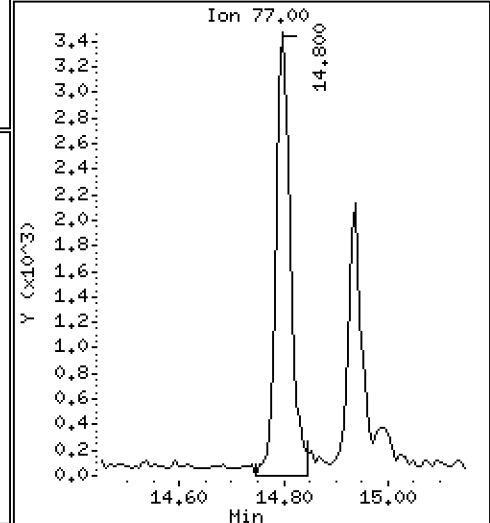
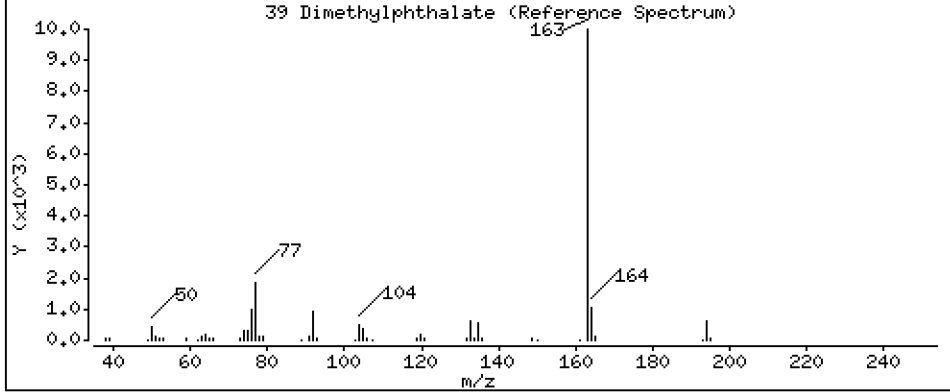
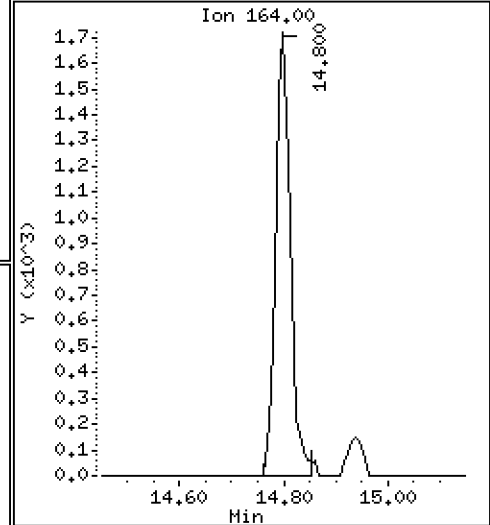
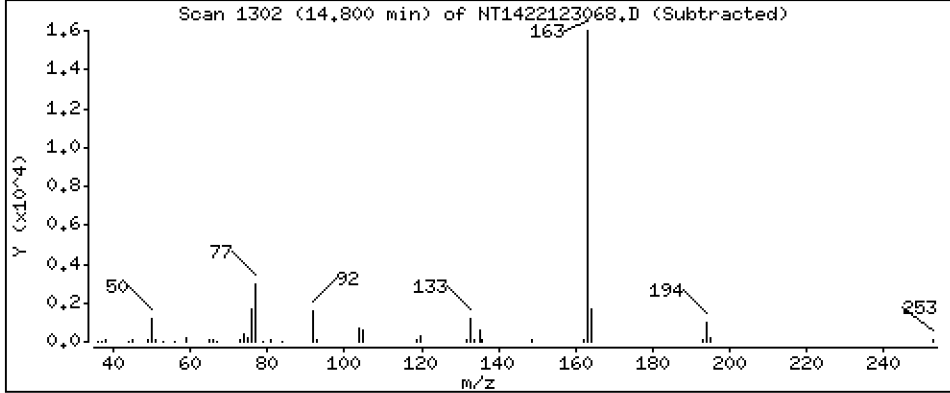
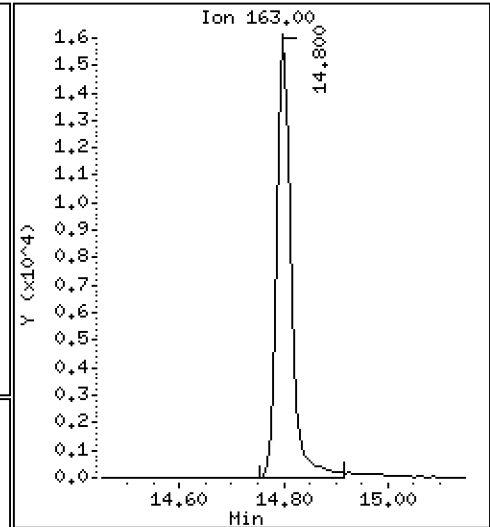
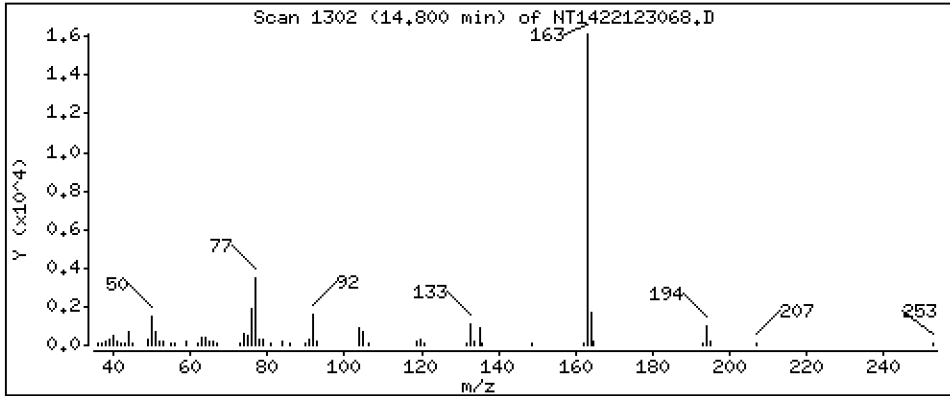
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,4956 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

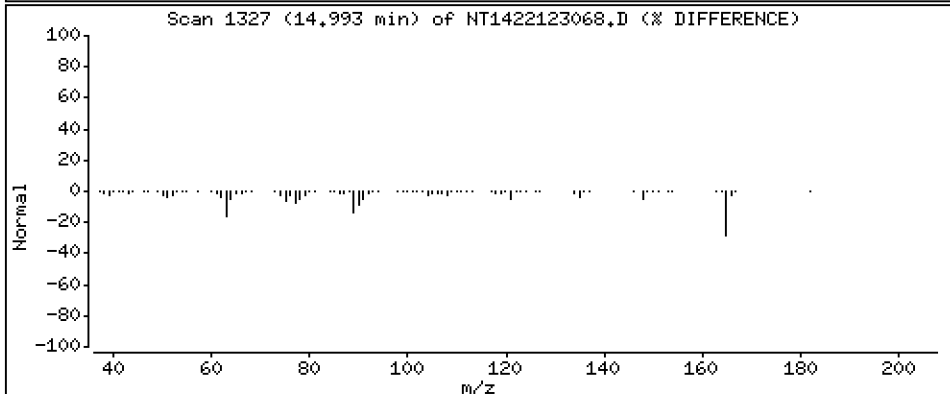
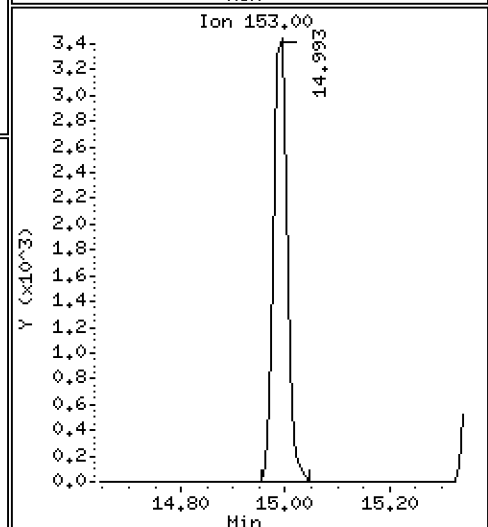
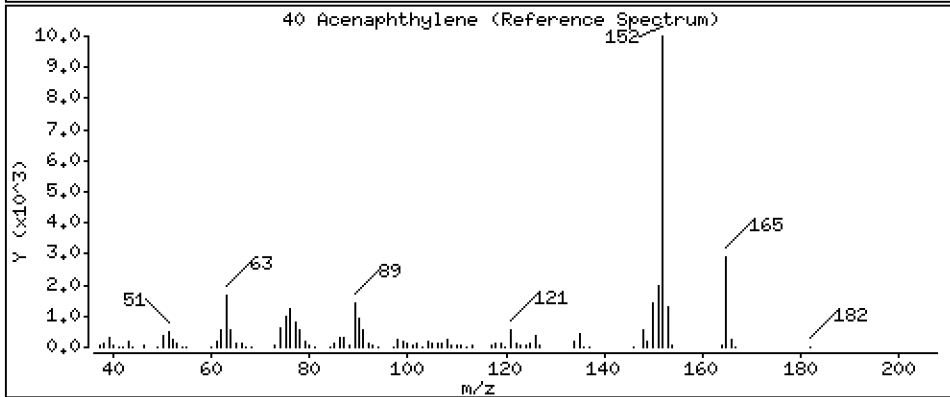
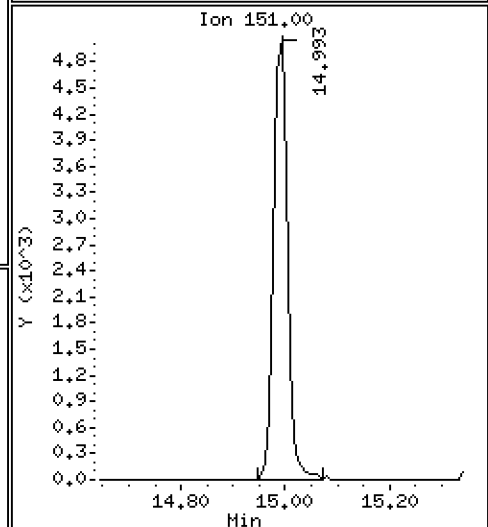
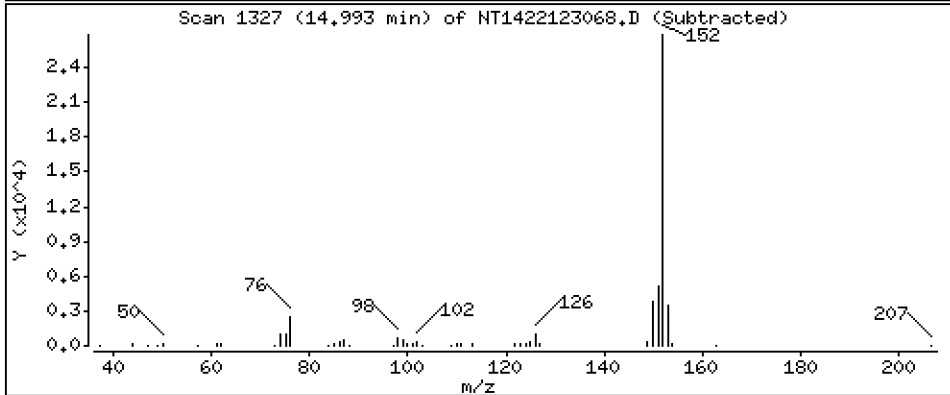
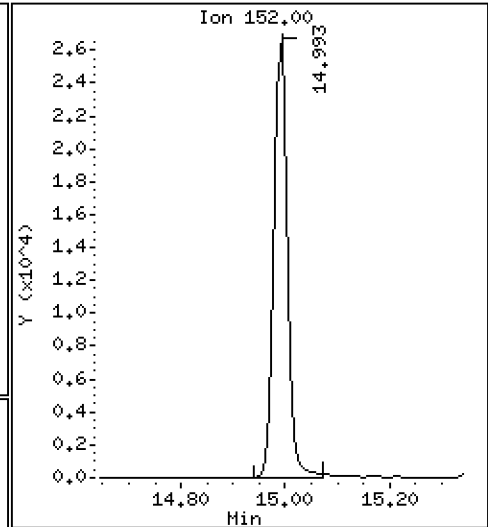
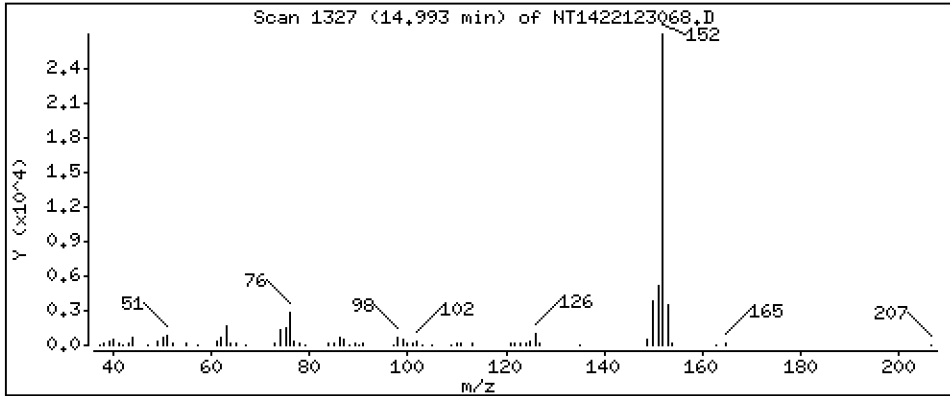
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,4979 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

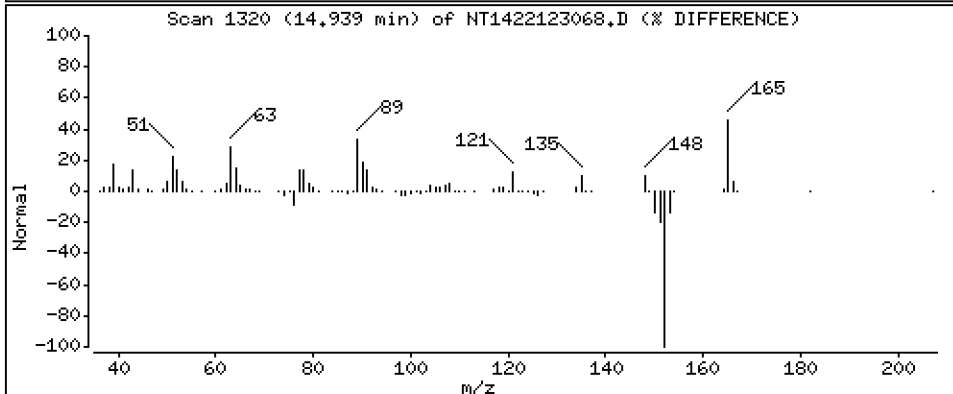
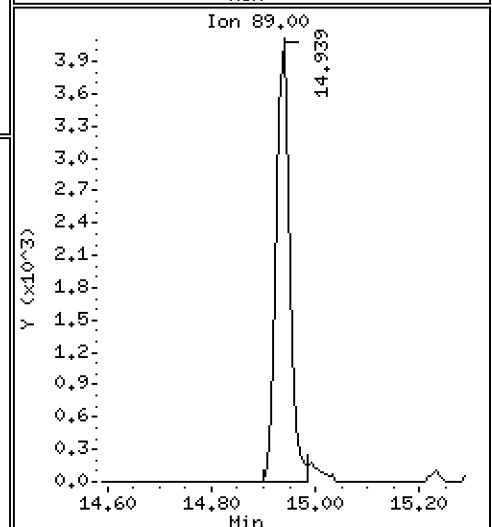
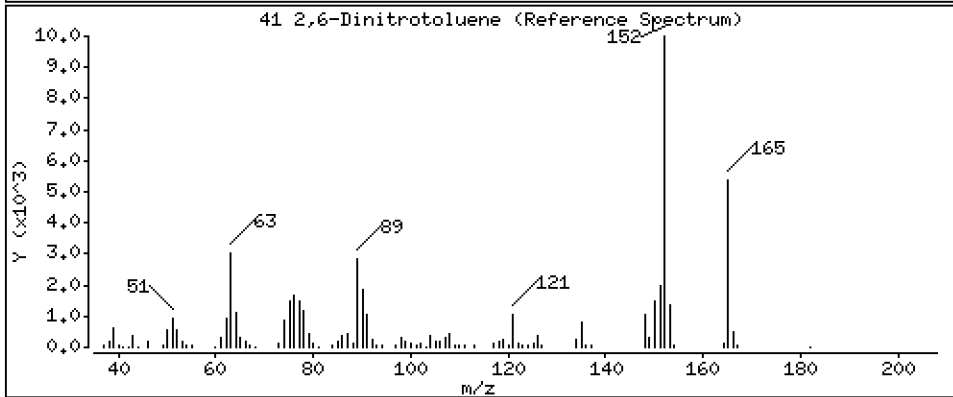
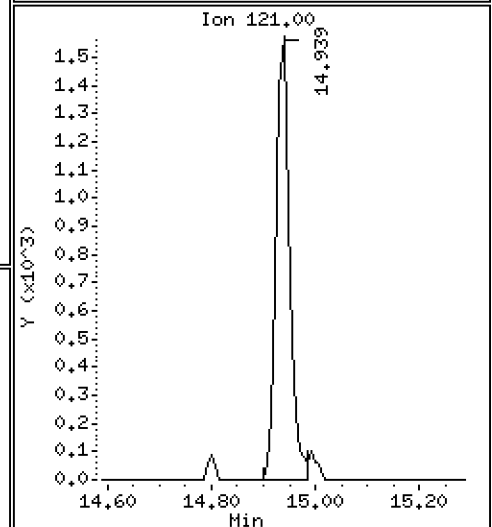
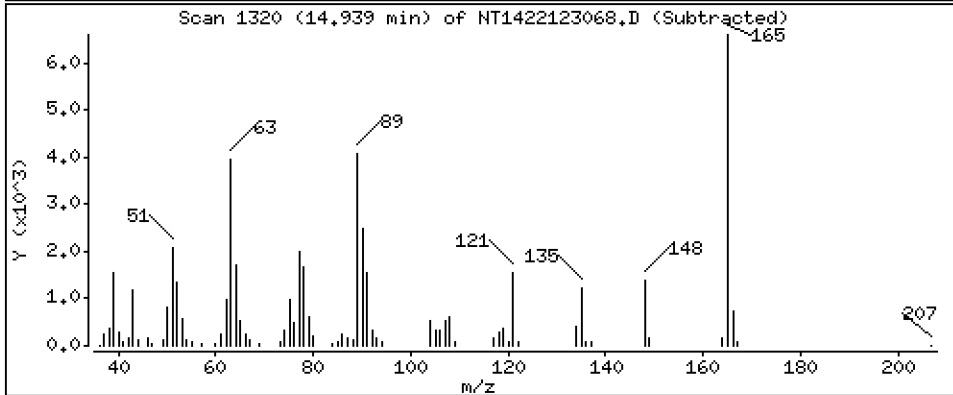
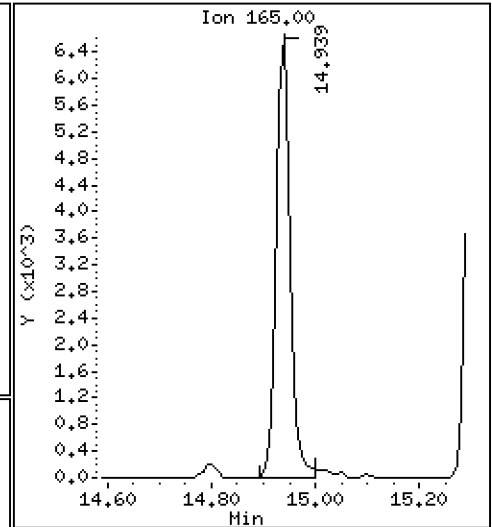
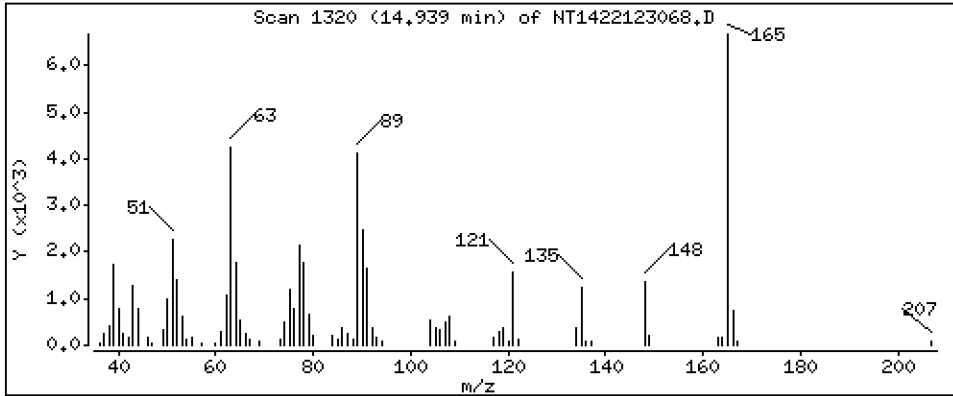
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,8726 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

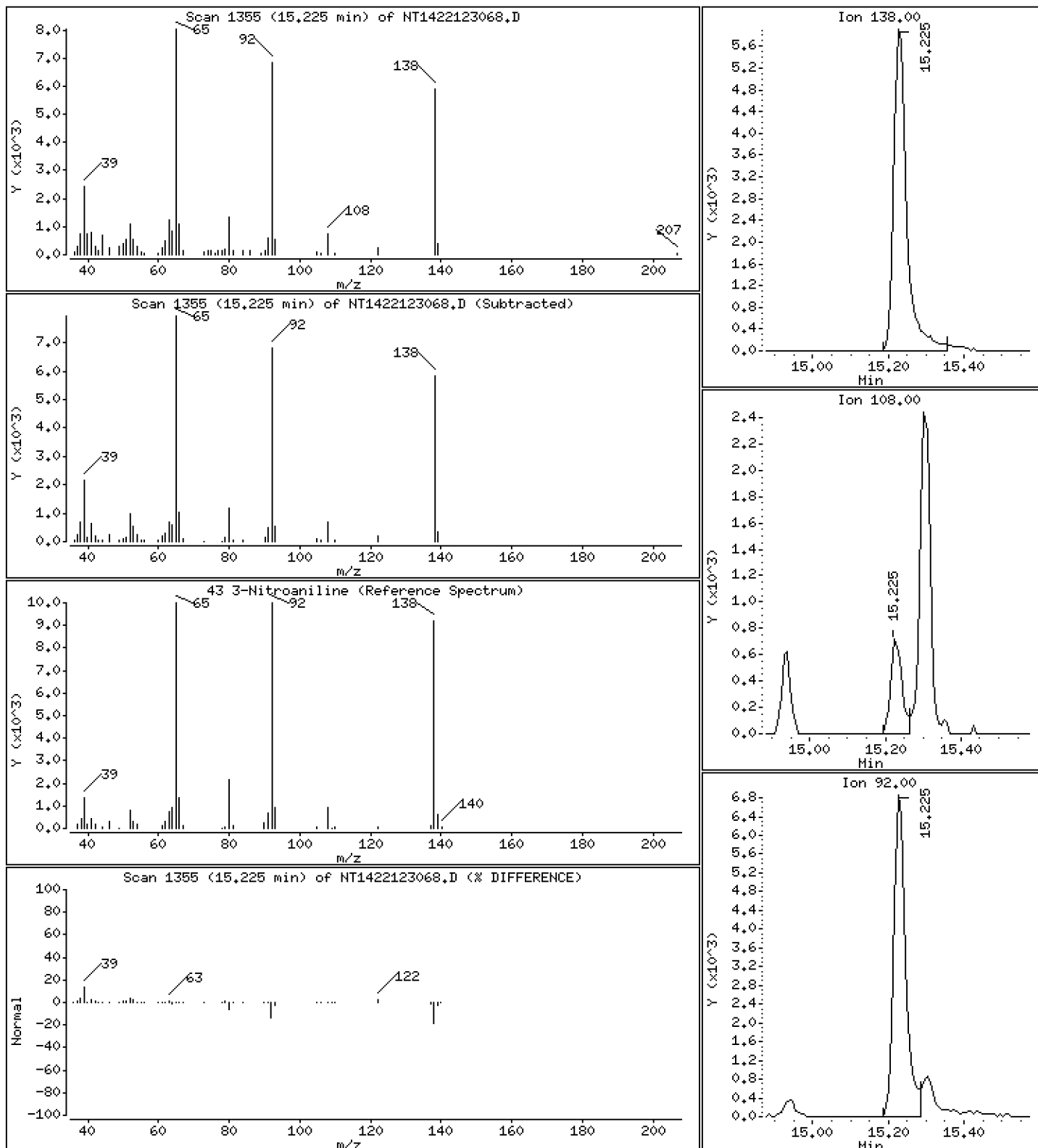
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,8487 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

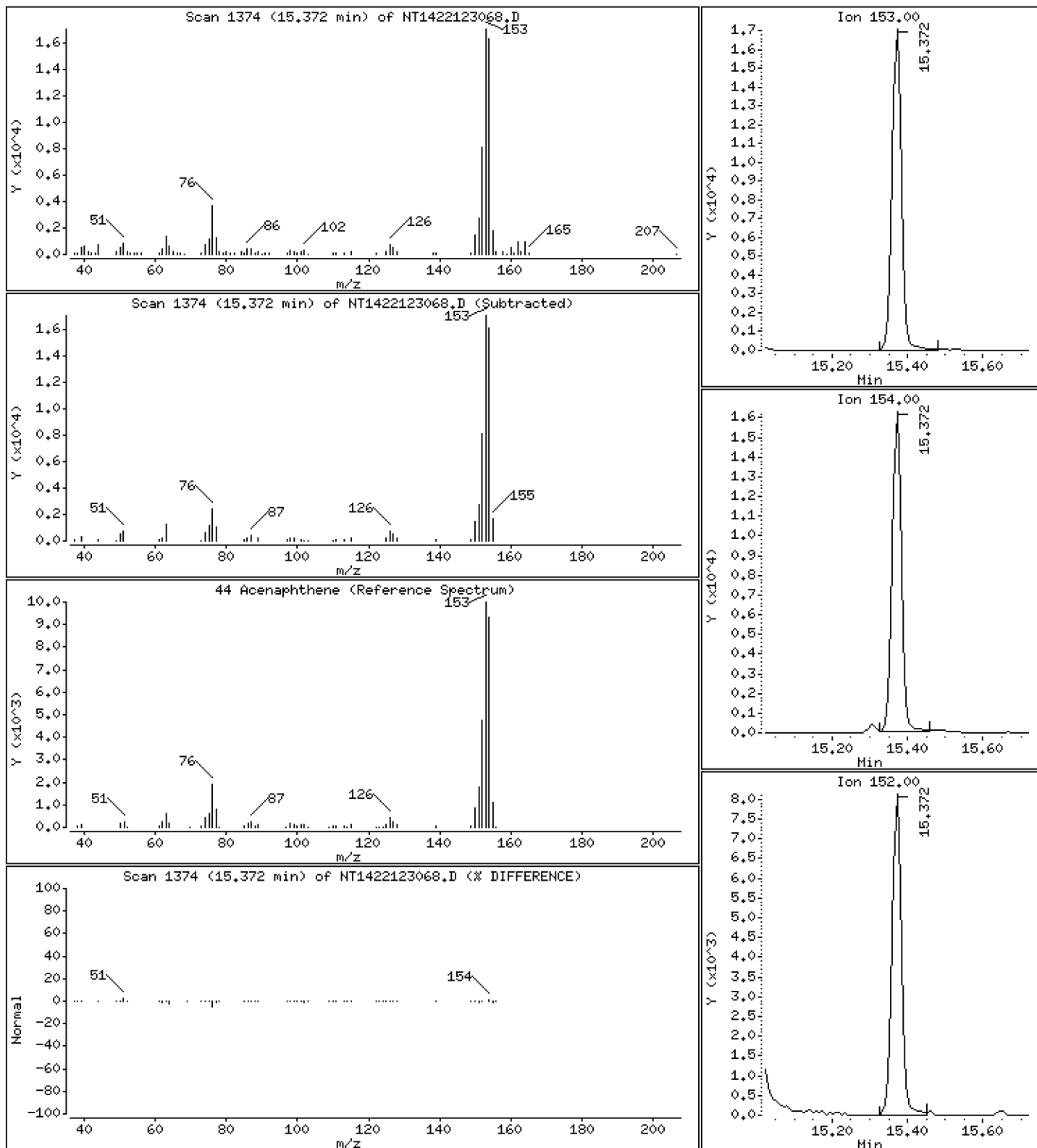
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.4955 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

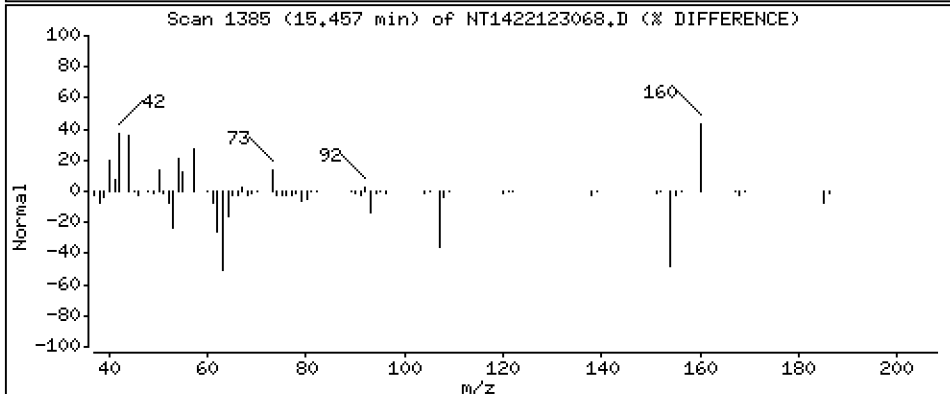
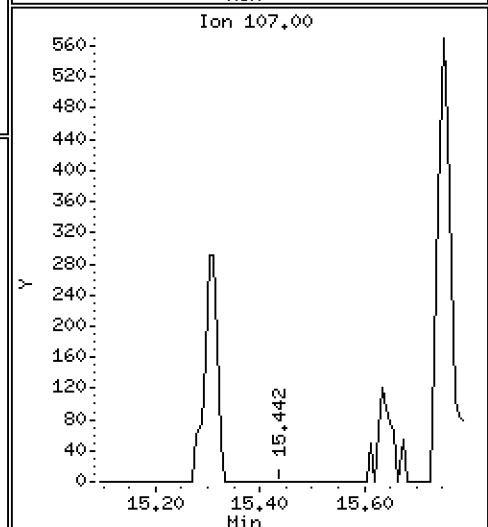
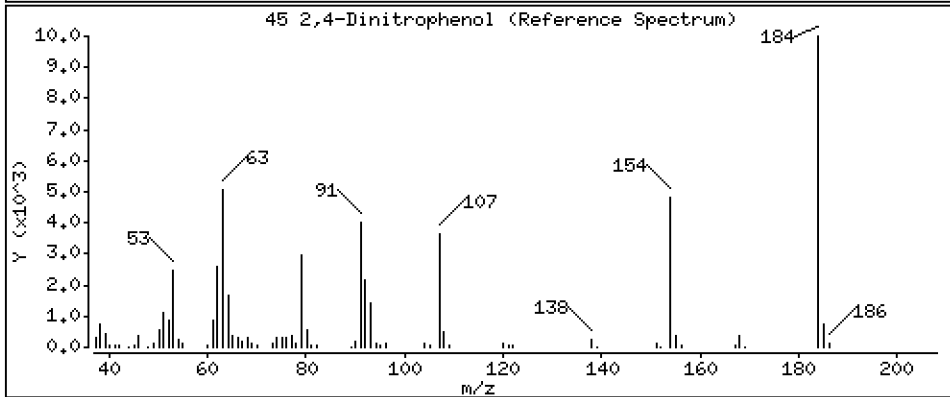
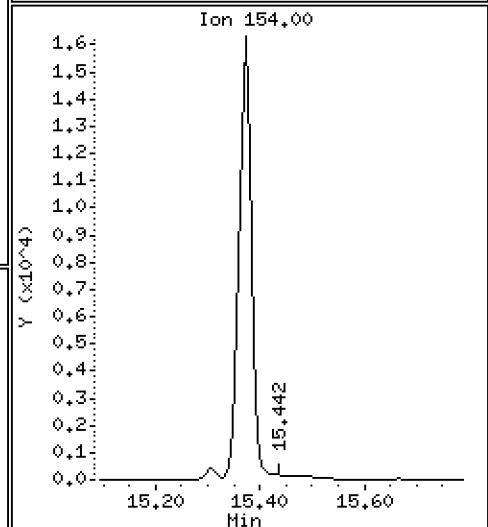
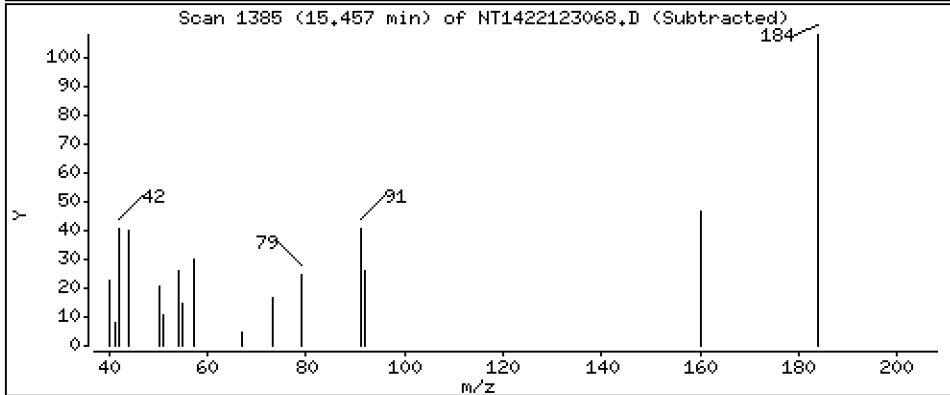
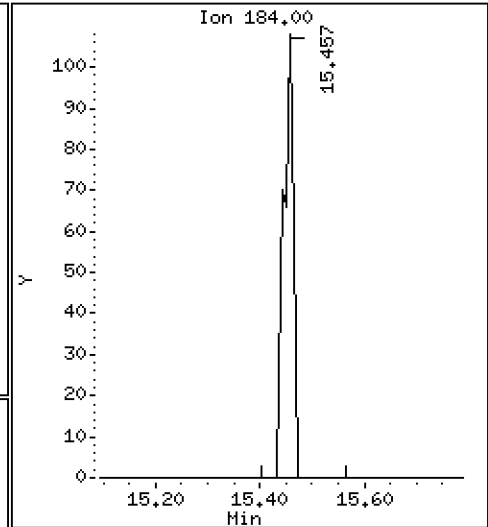
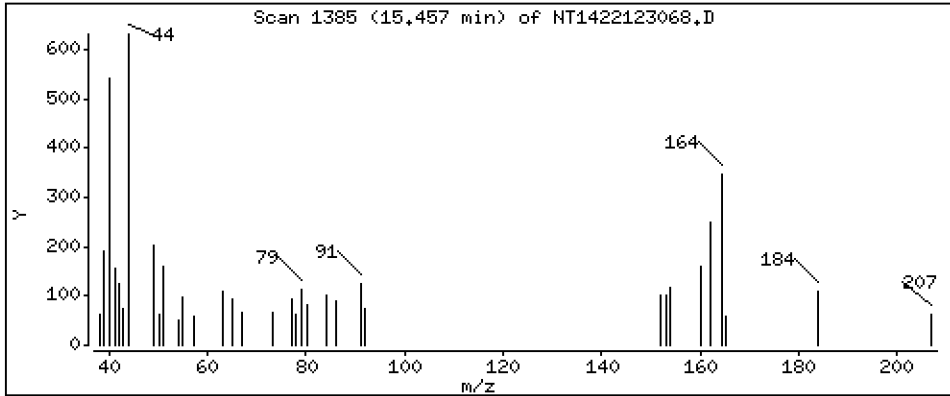
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,01232 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

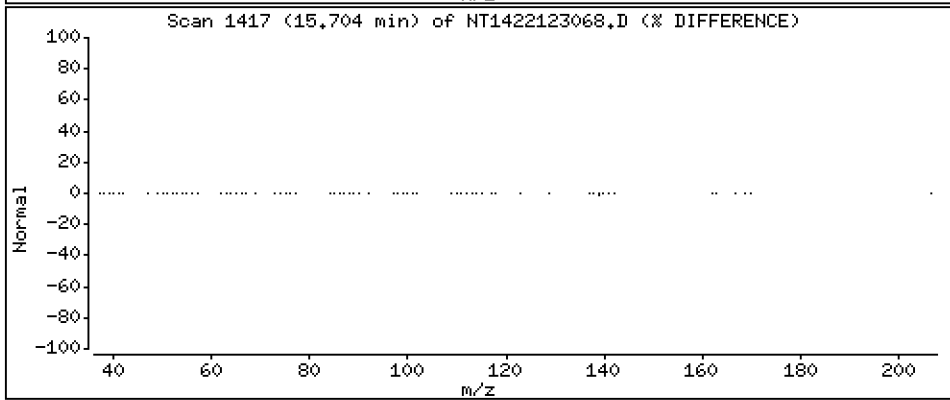
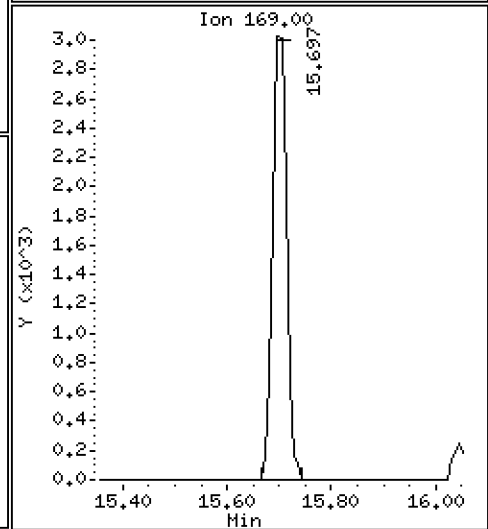
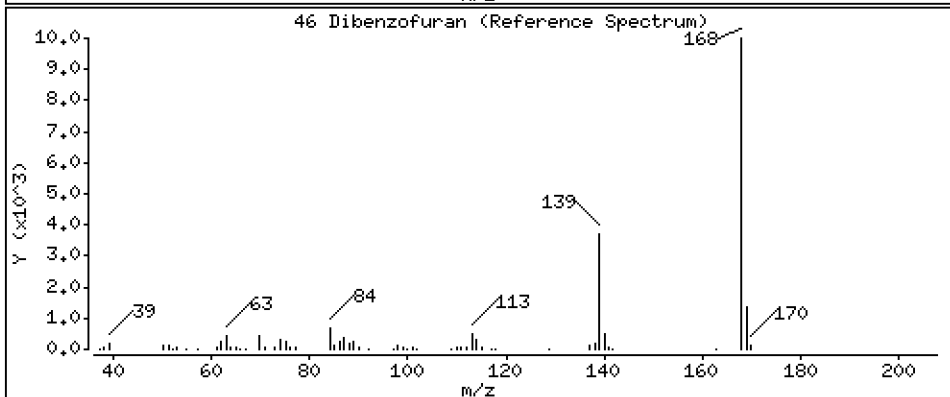
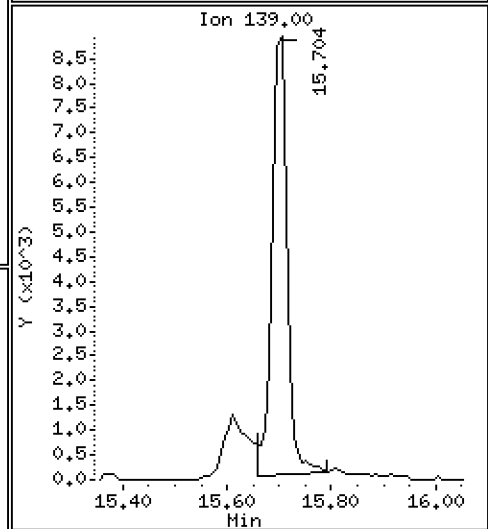
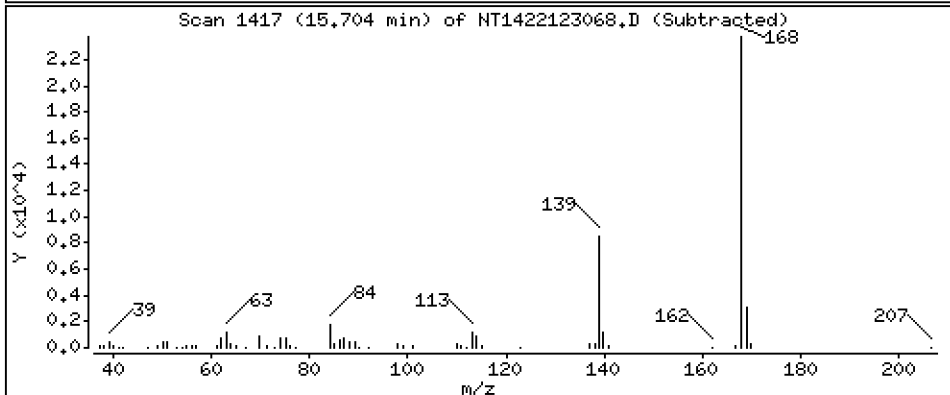
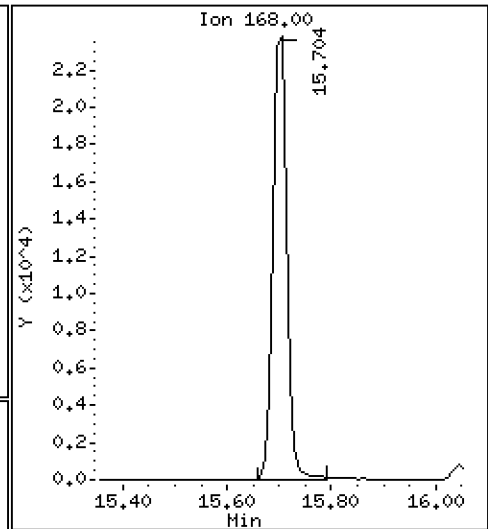
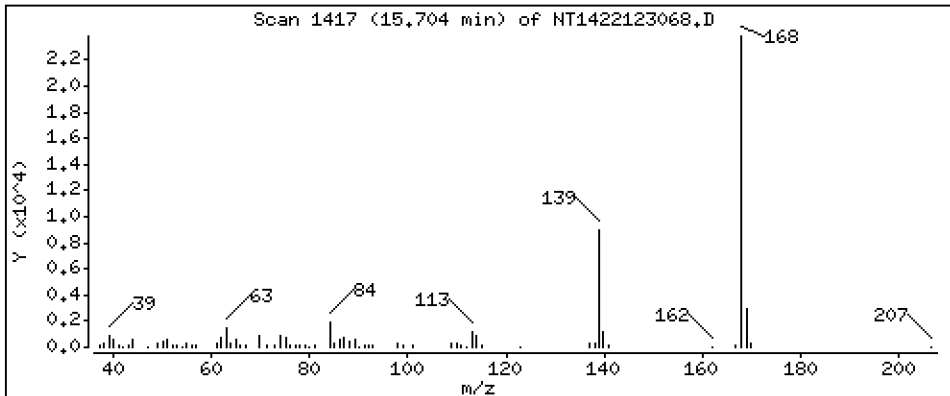
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,4928 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

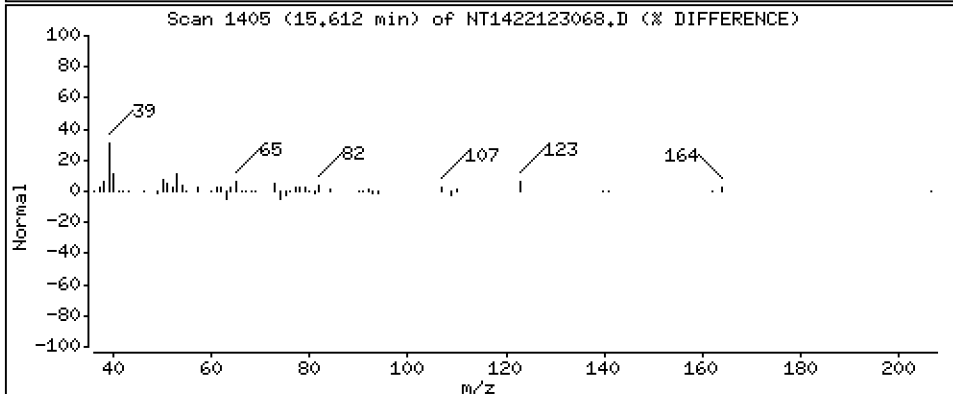
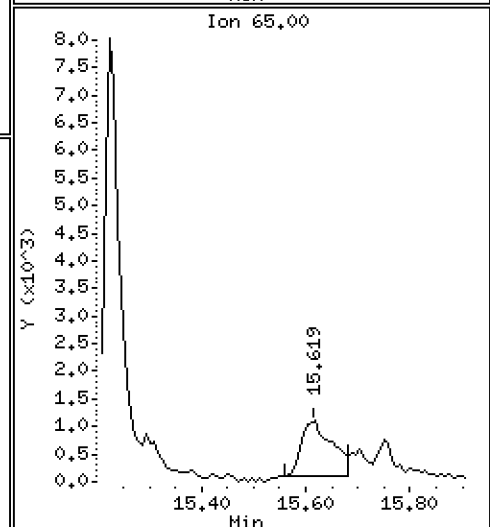
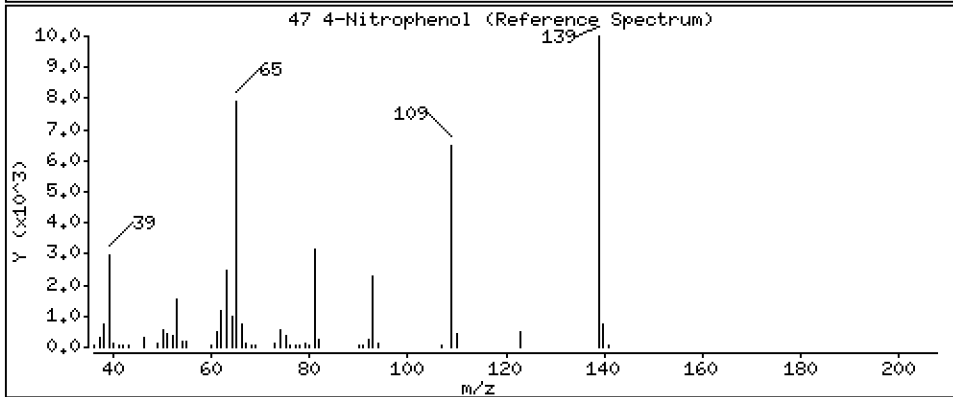
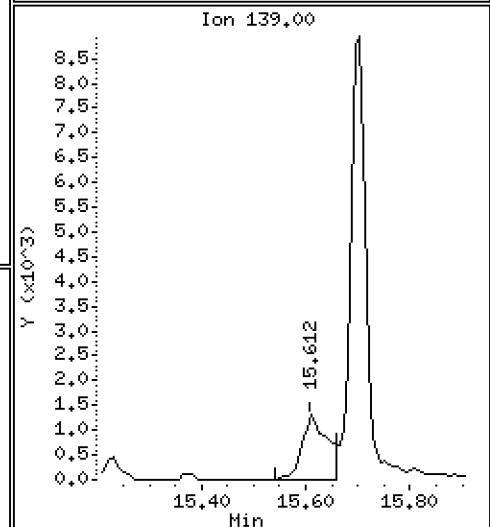
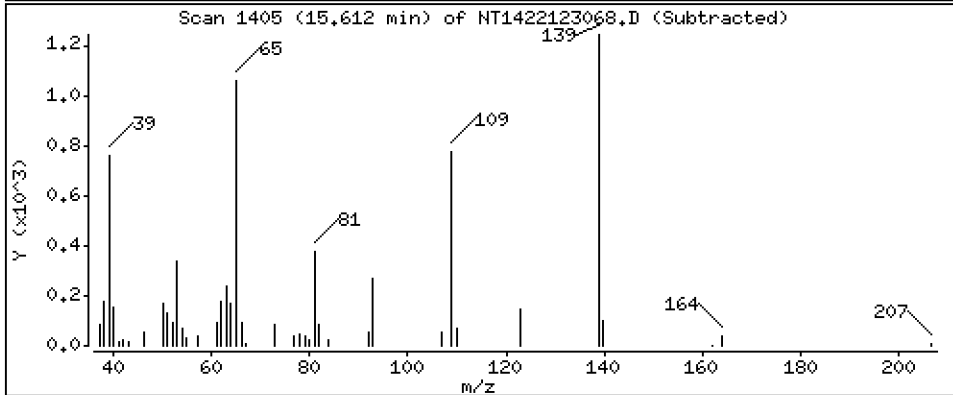
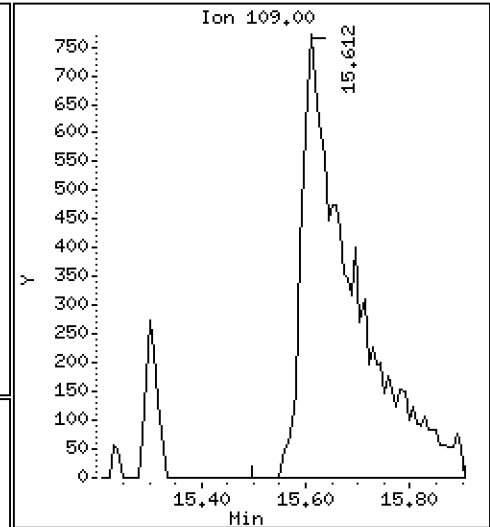
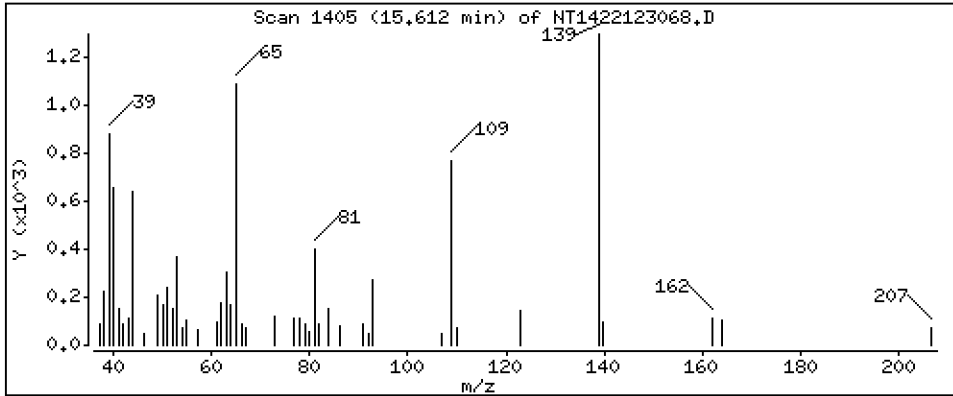
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 0.6719 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

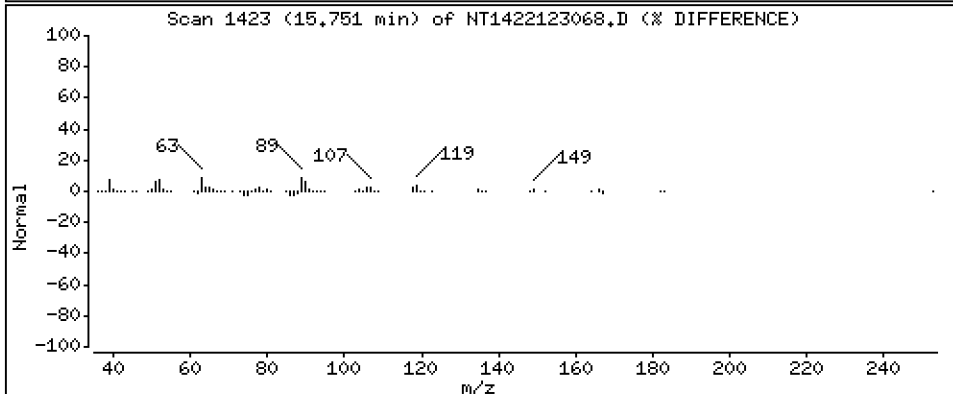
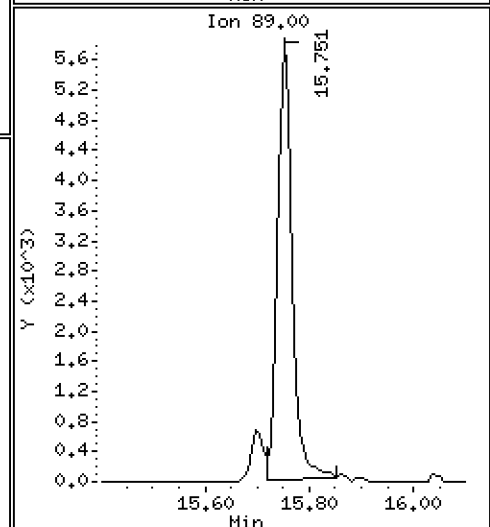
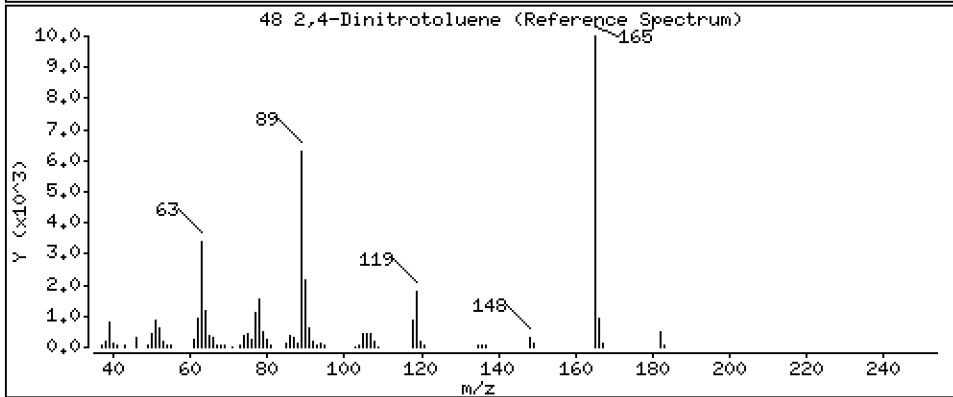
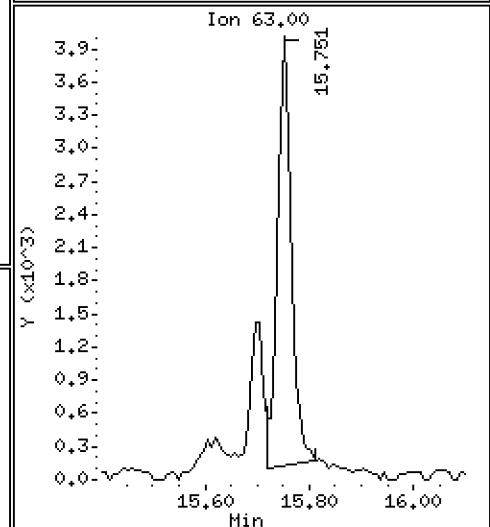
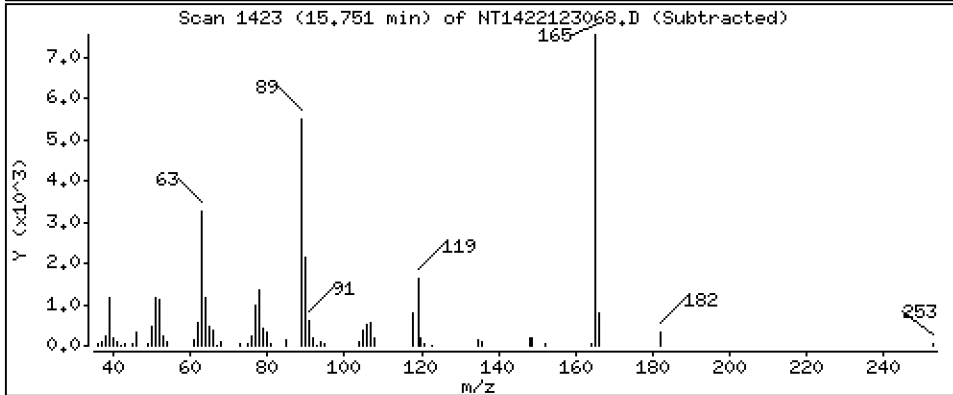
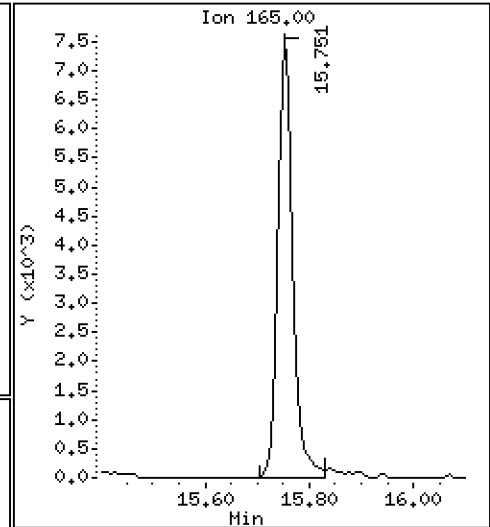
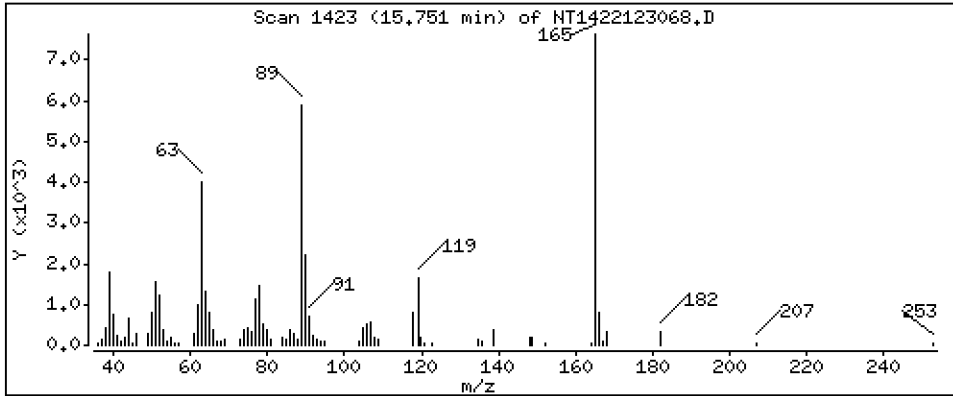
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,7780 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

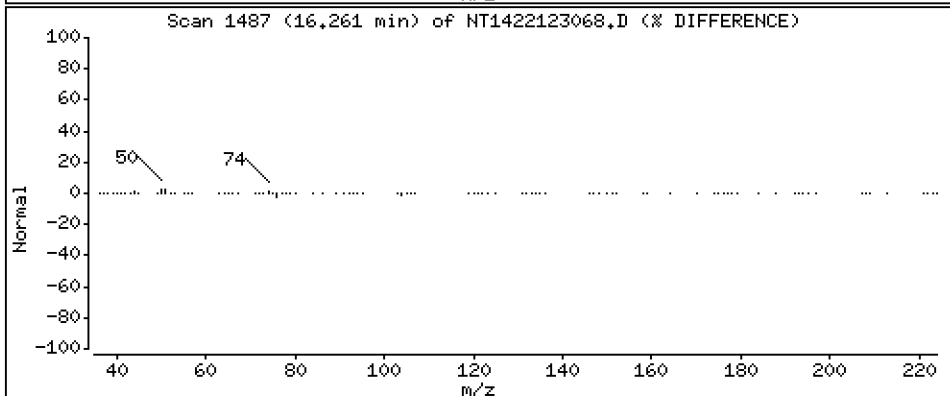
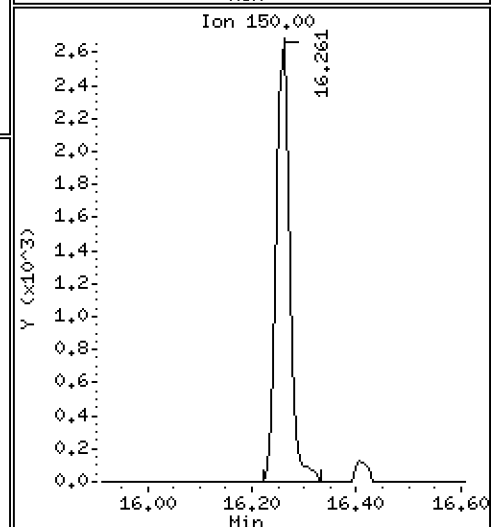
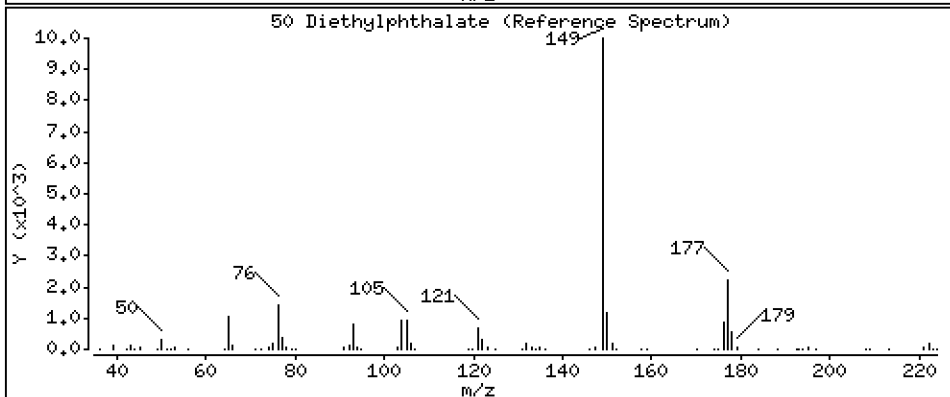
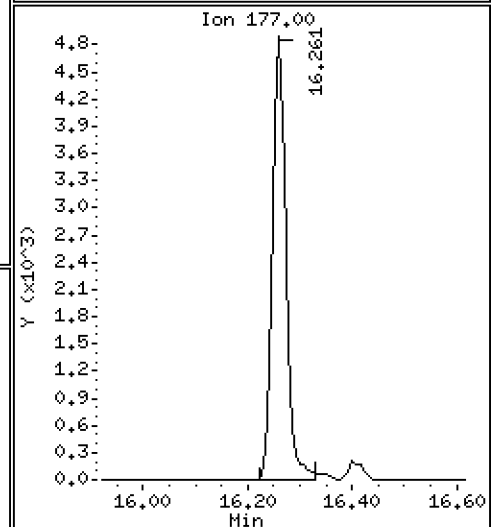
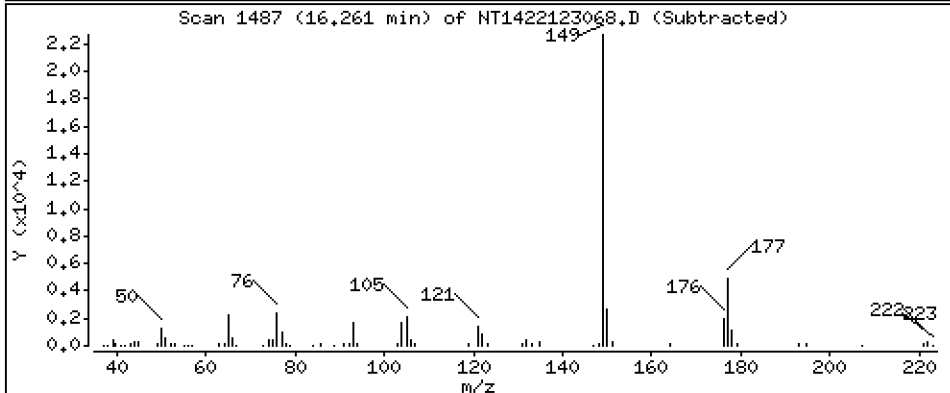
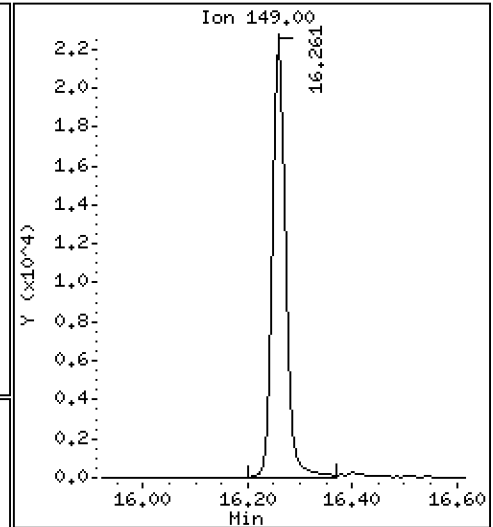
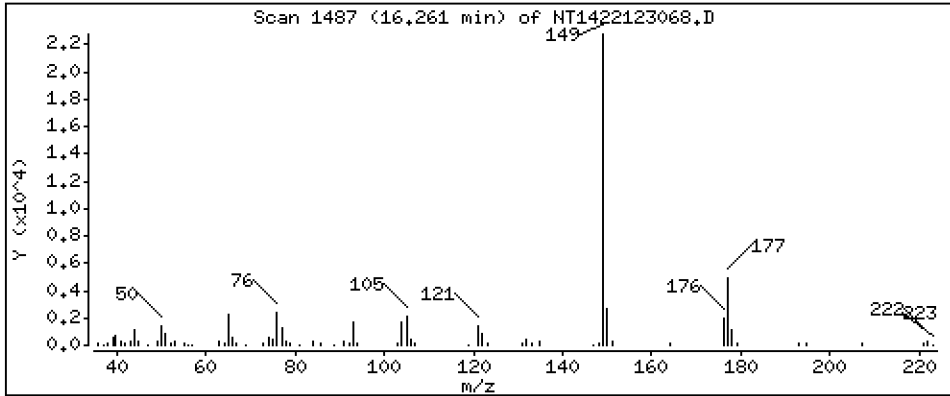
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5719 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

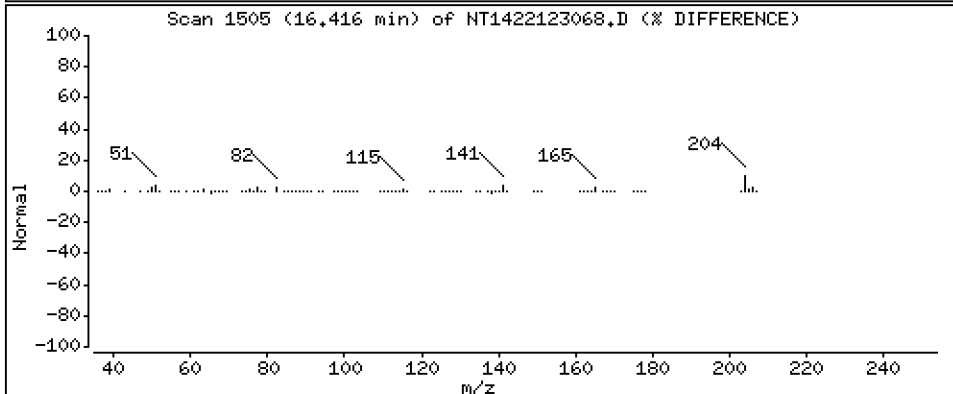
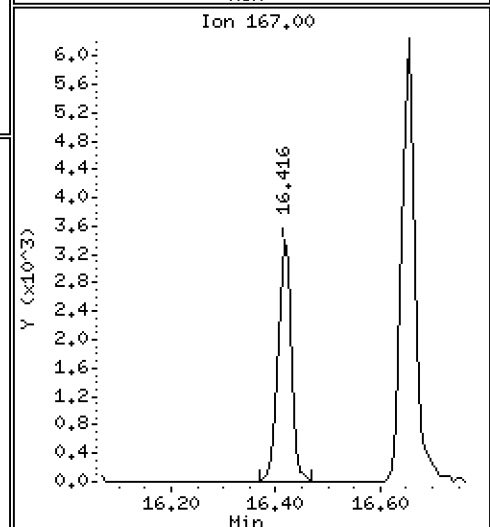
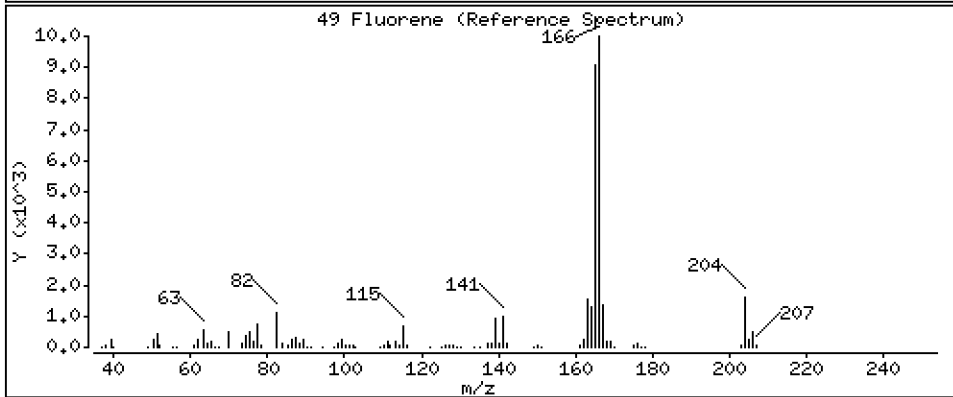
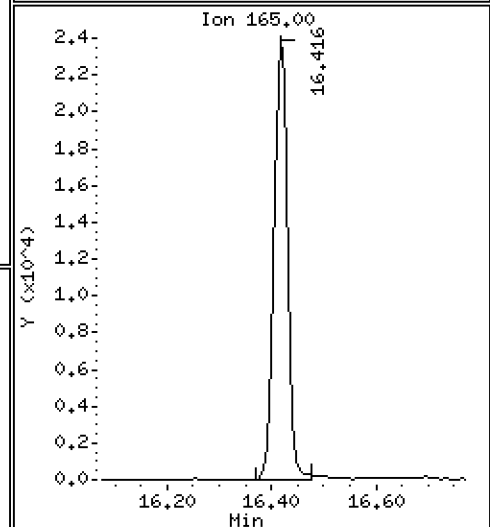
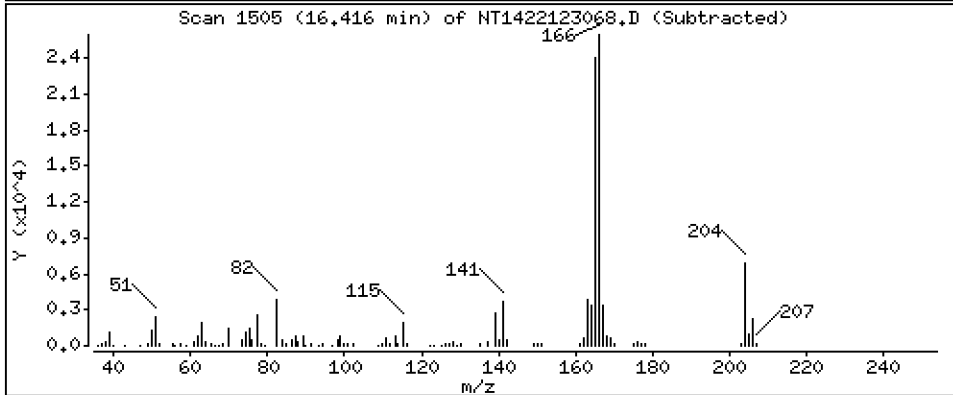
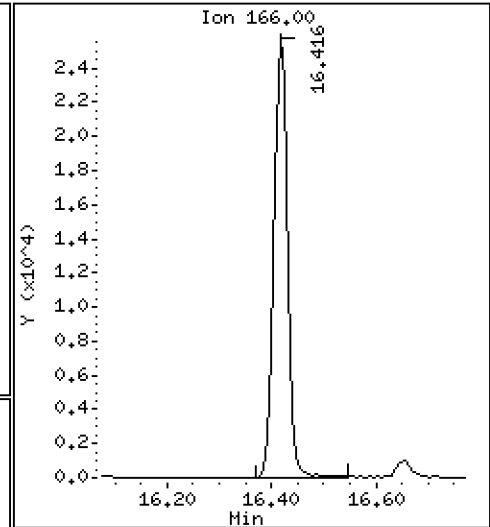
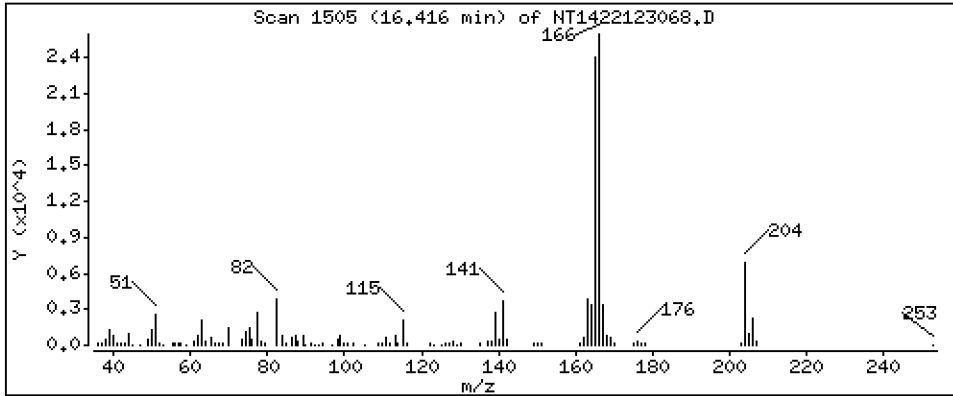
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,4880 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

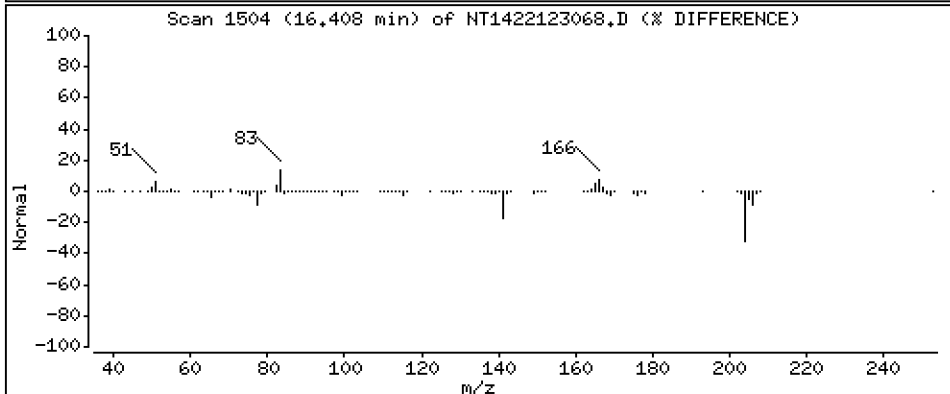
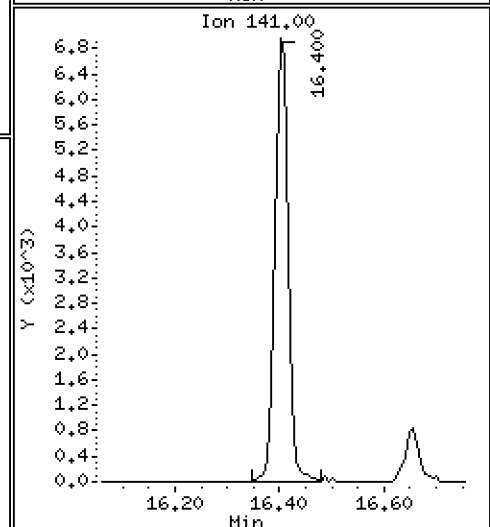
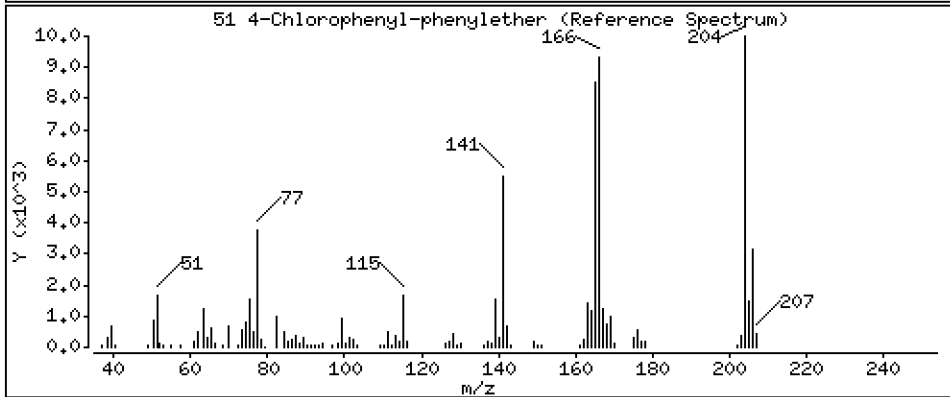
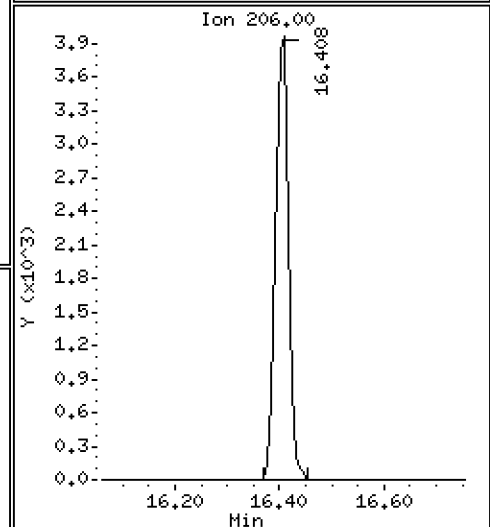
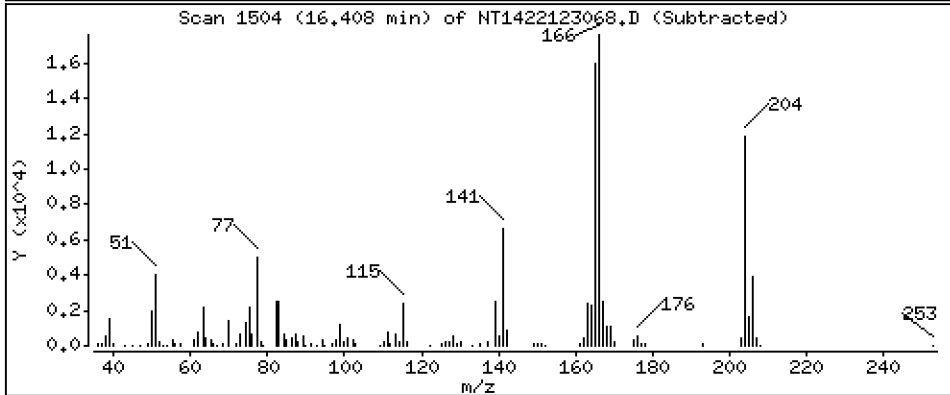
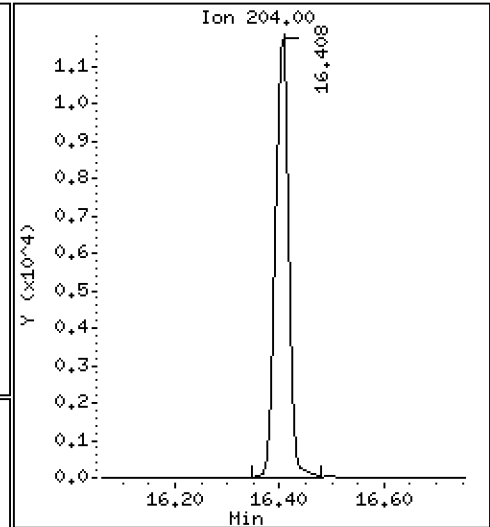
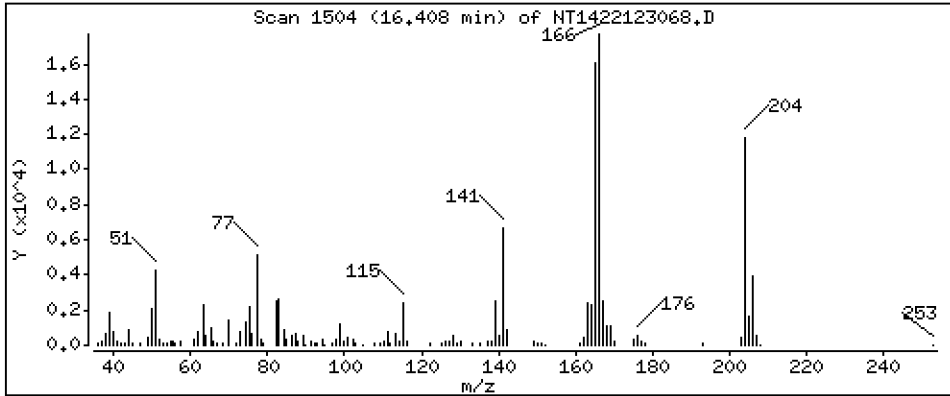
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5123 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

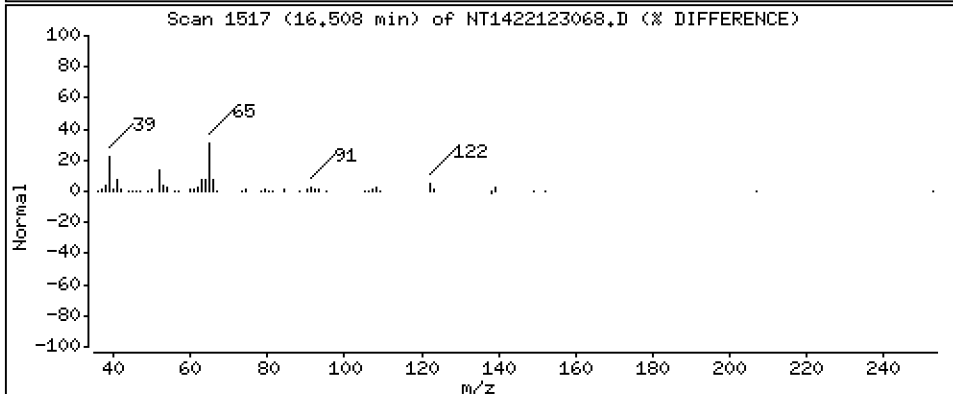
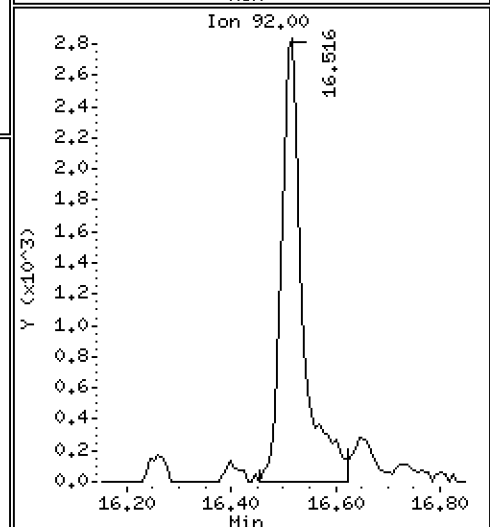
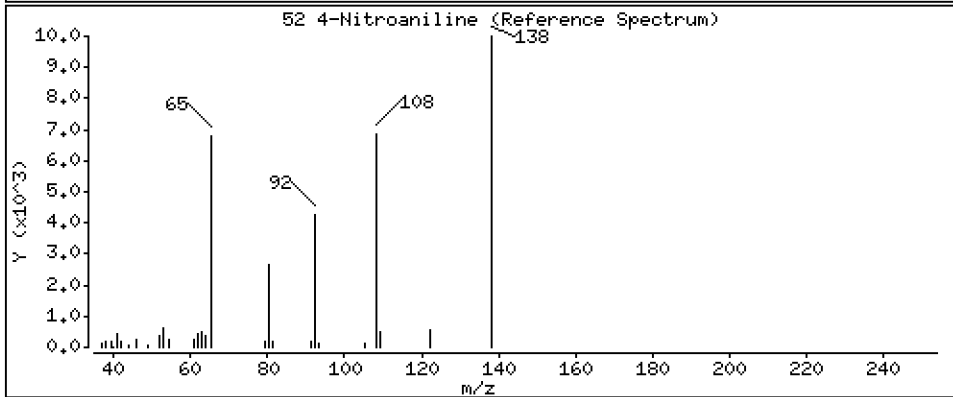
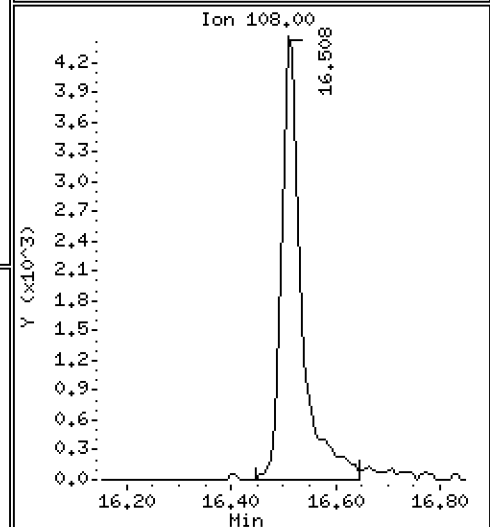
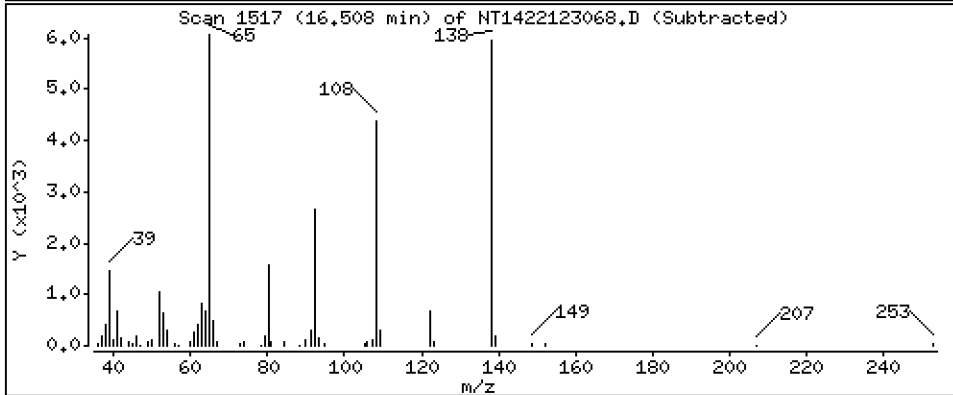
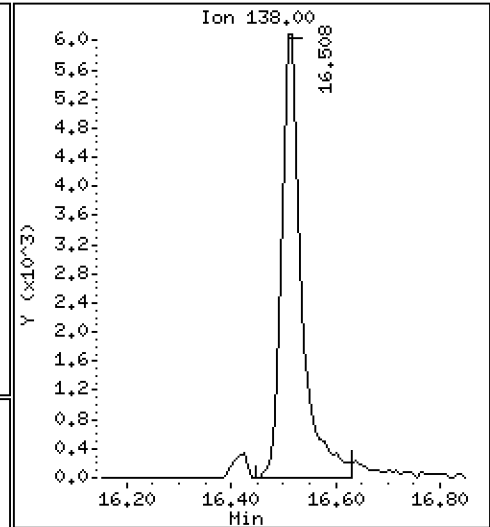
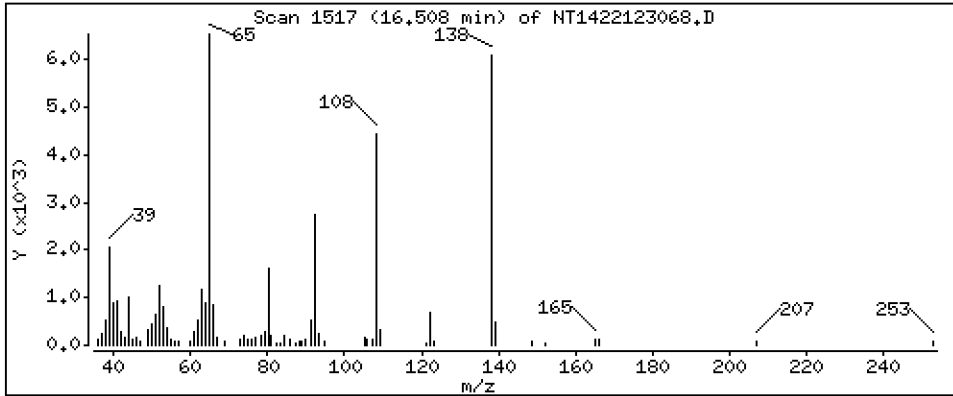
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8313 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

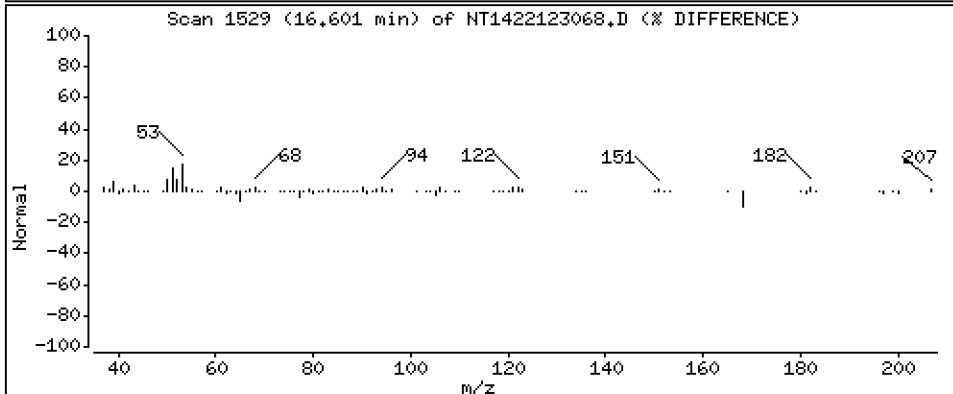
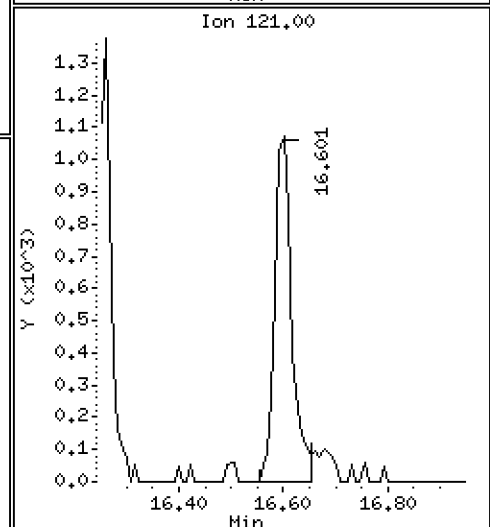
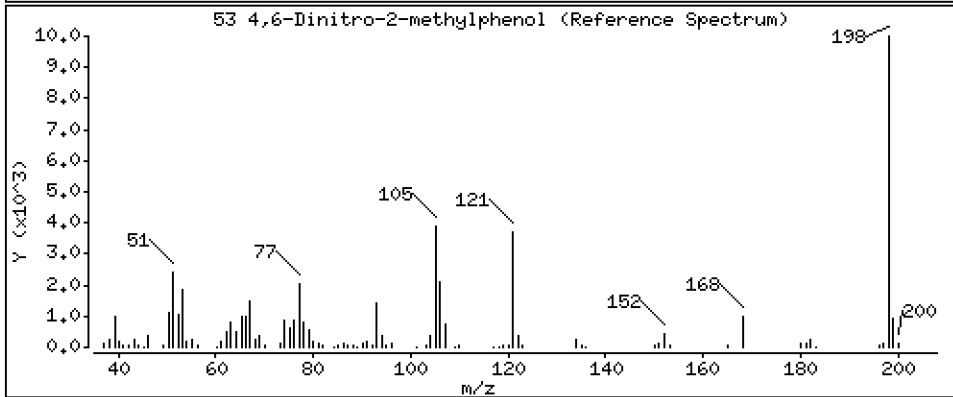
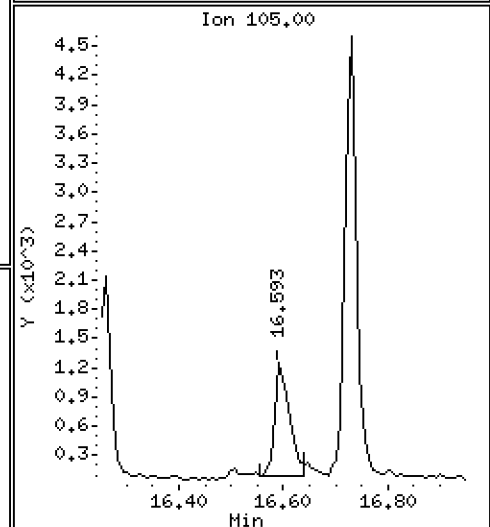
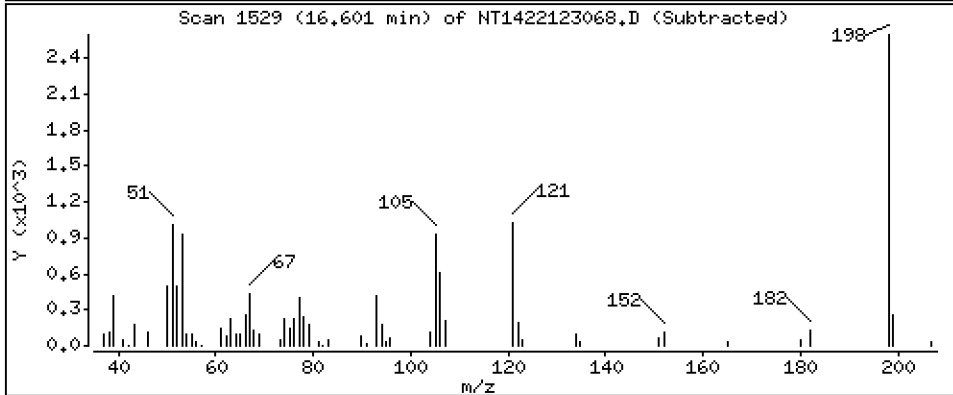
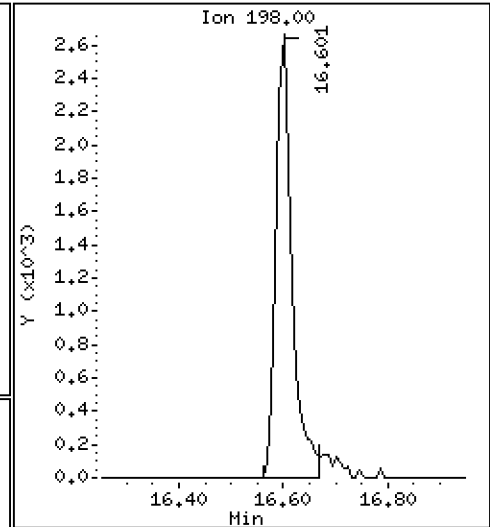
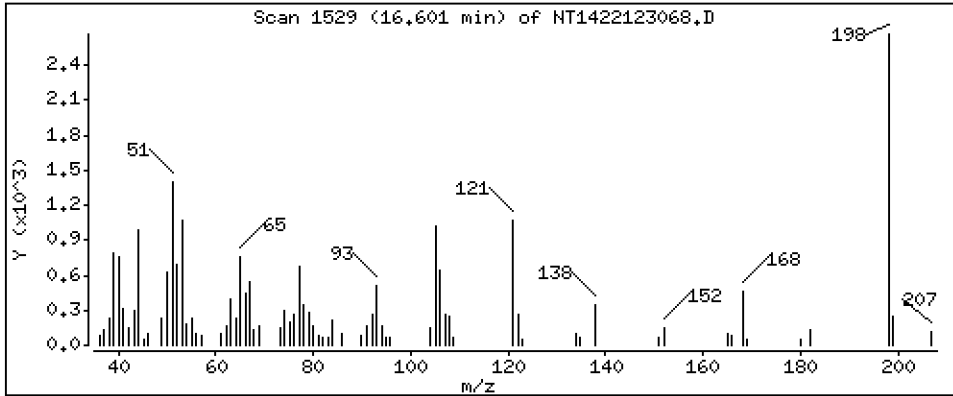
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3826 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

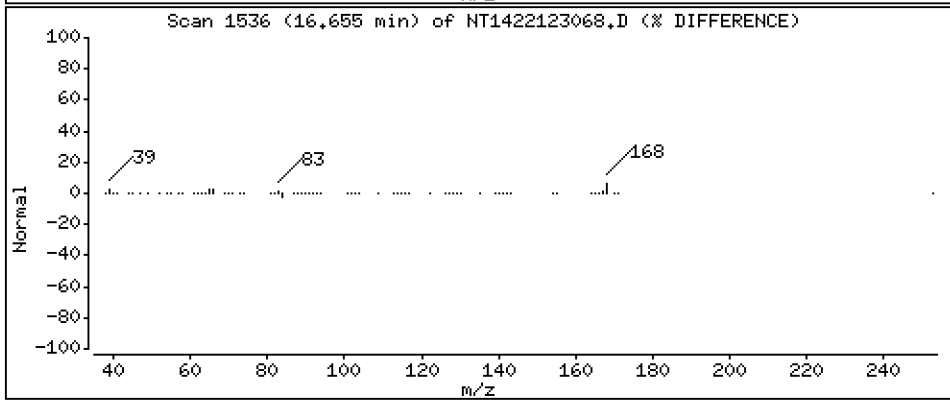
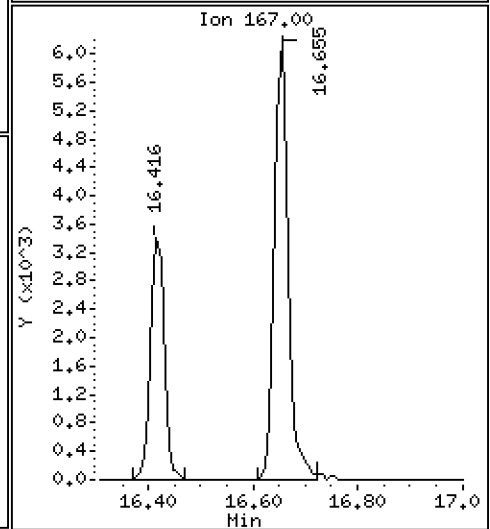
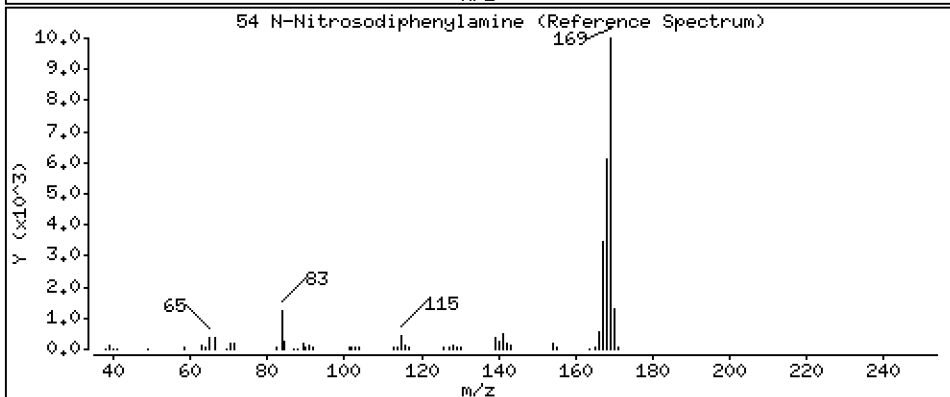
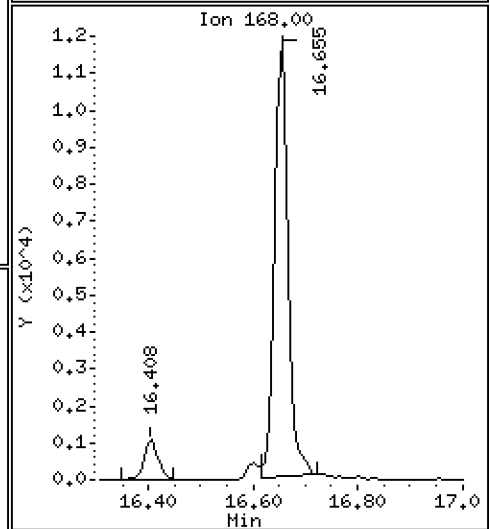
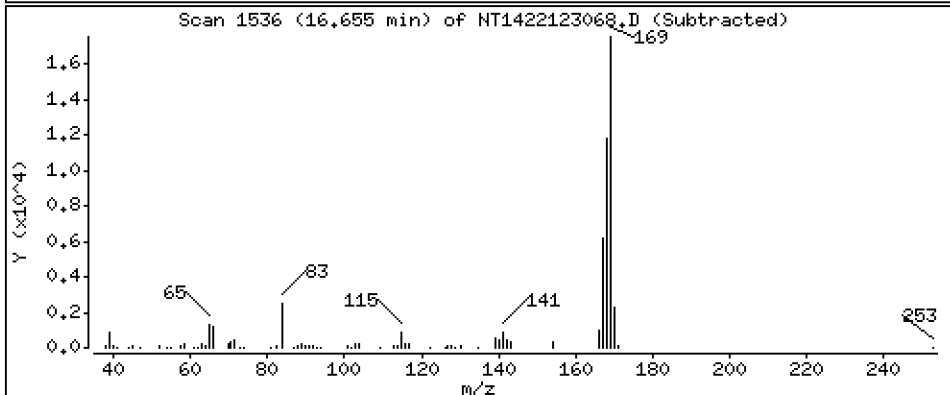
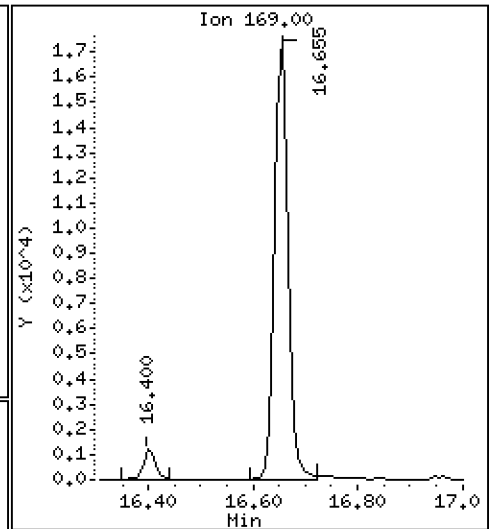
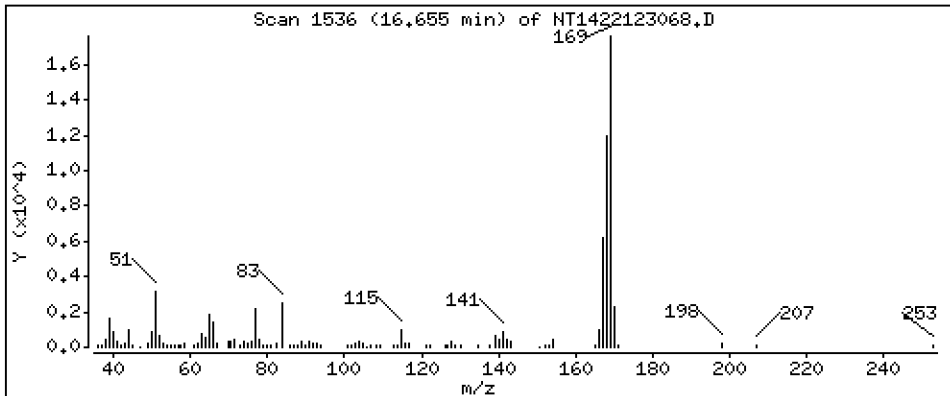
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.5115 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

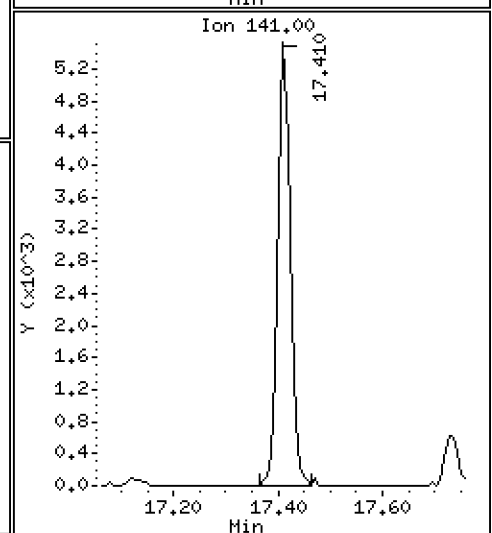
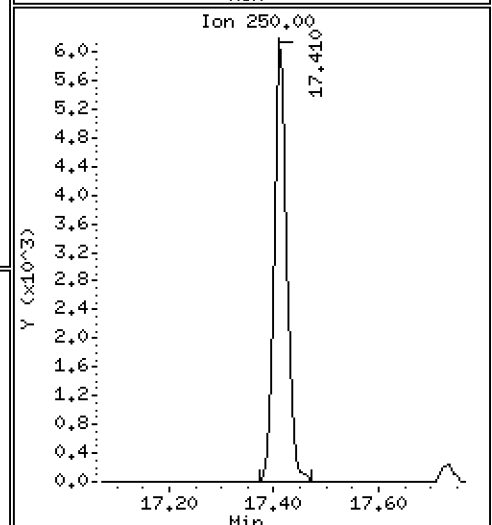
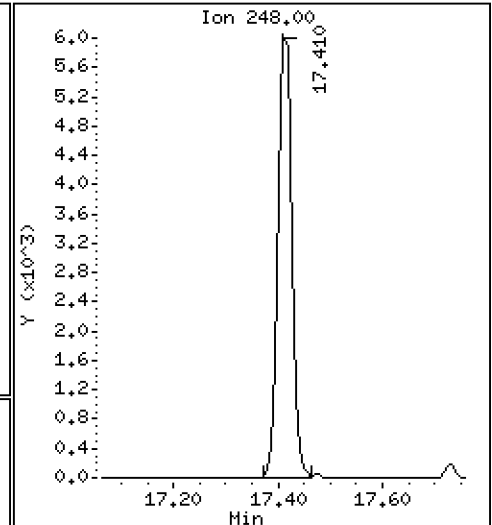
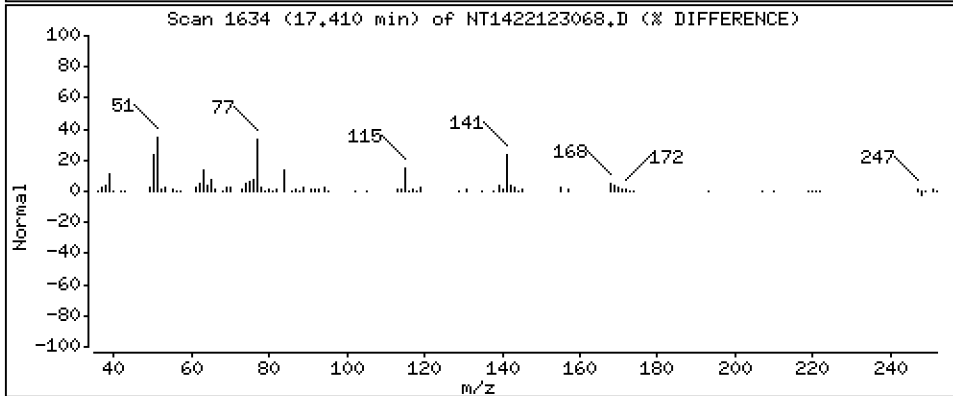
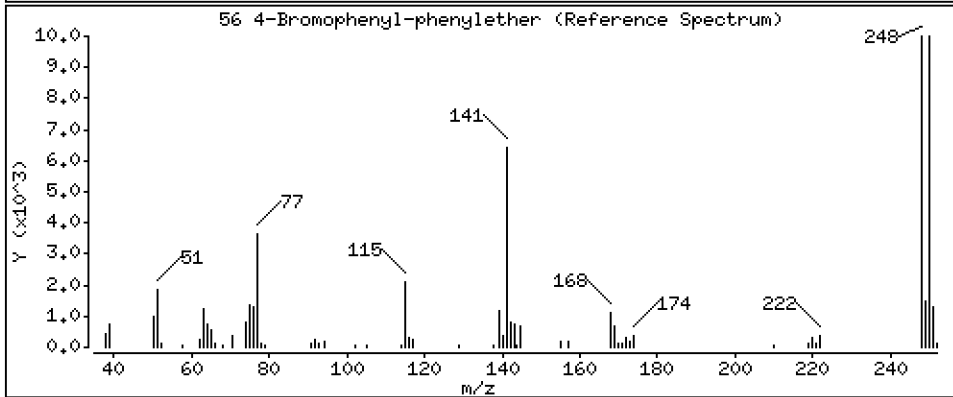
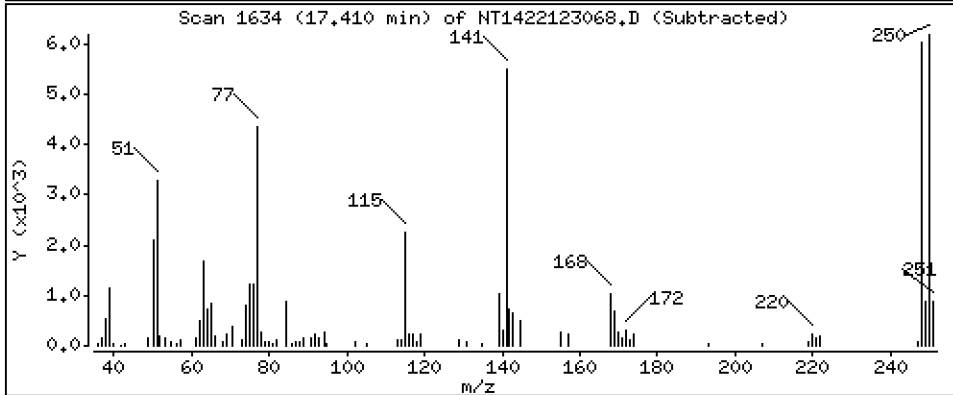
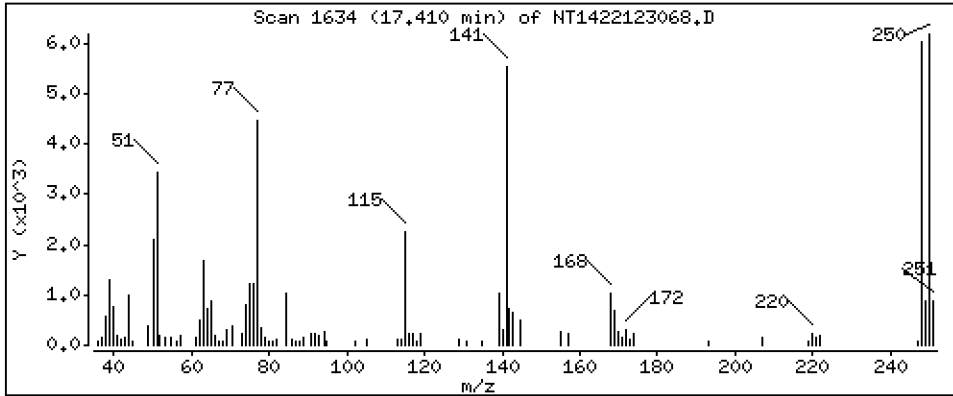
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,4732 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

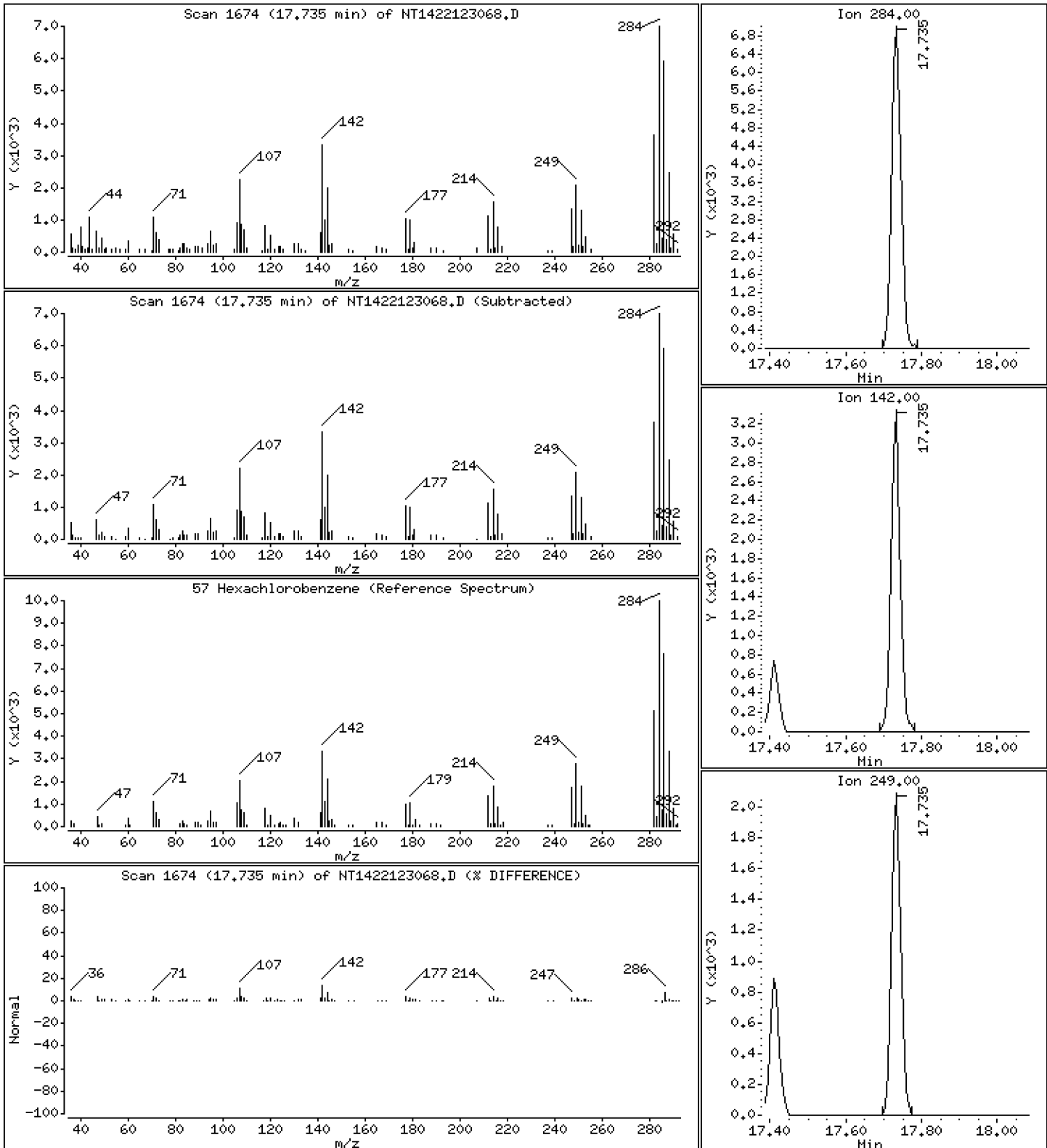
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.4872 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

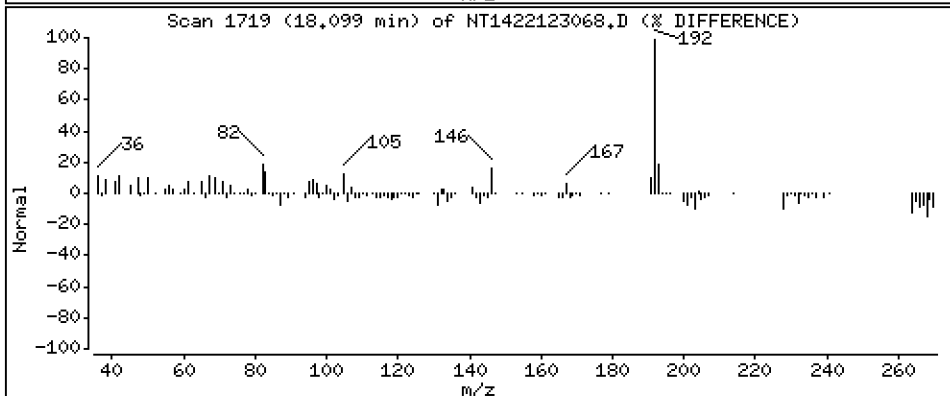
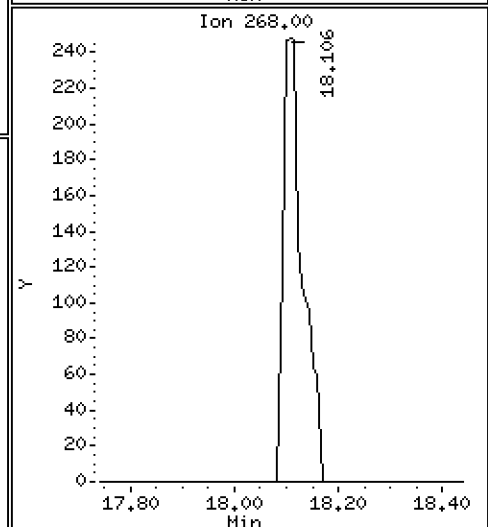
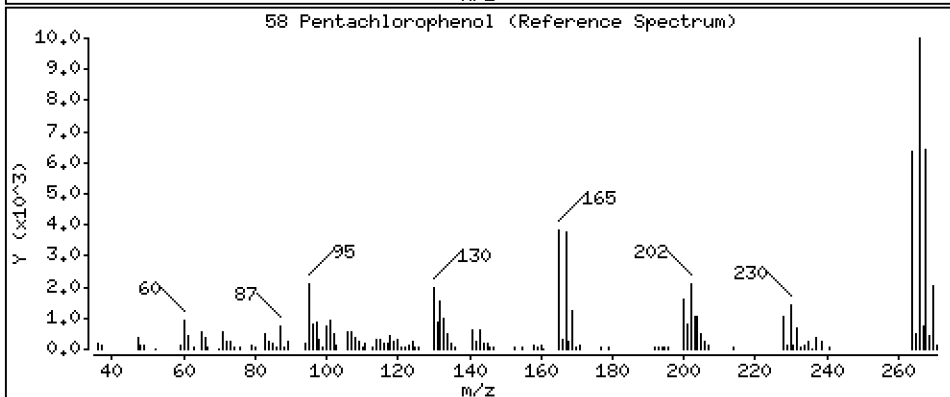
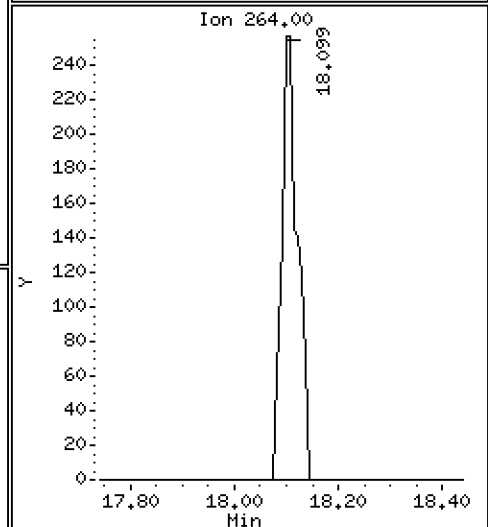
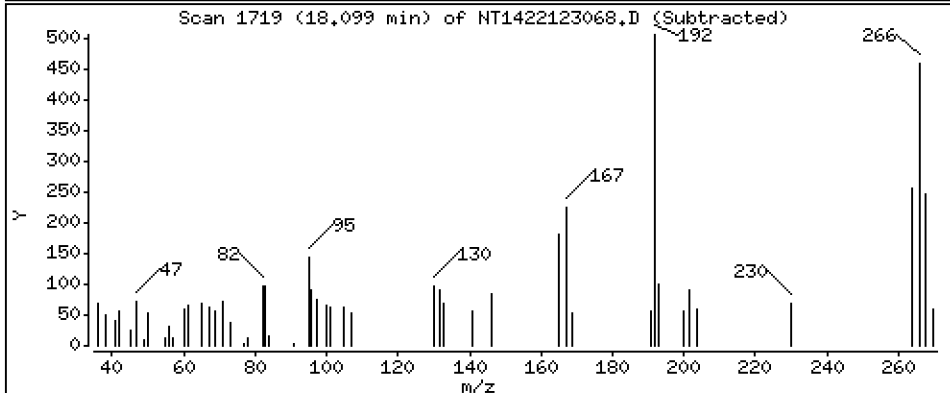
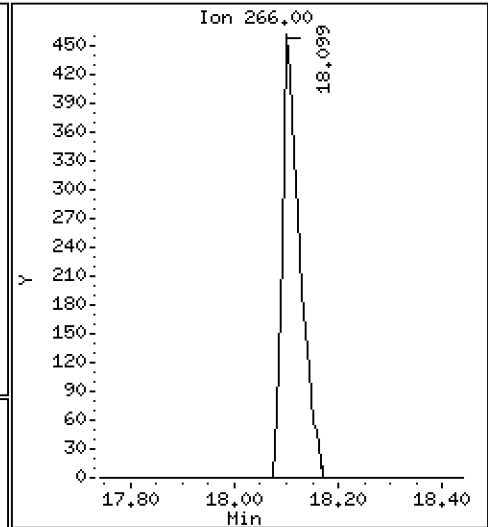
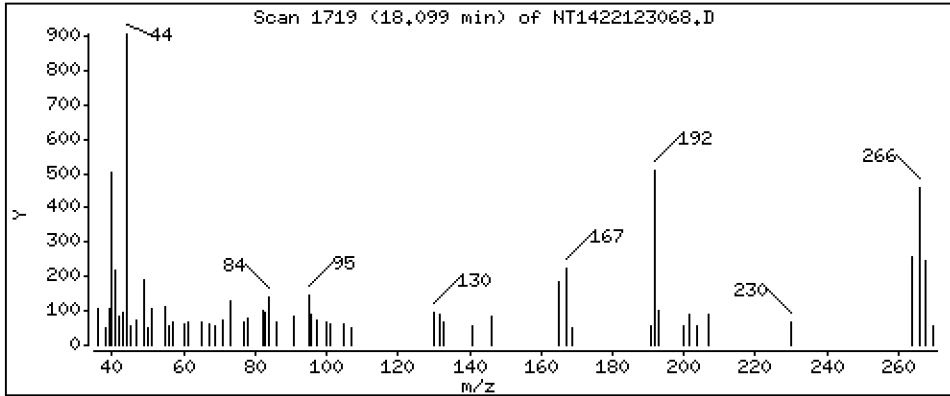
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1037 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

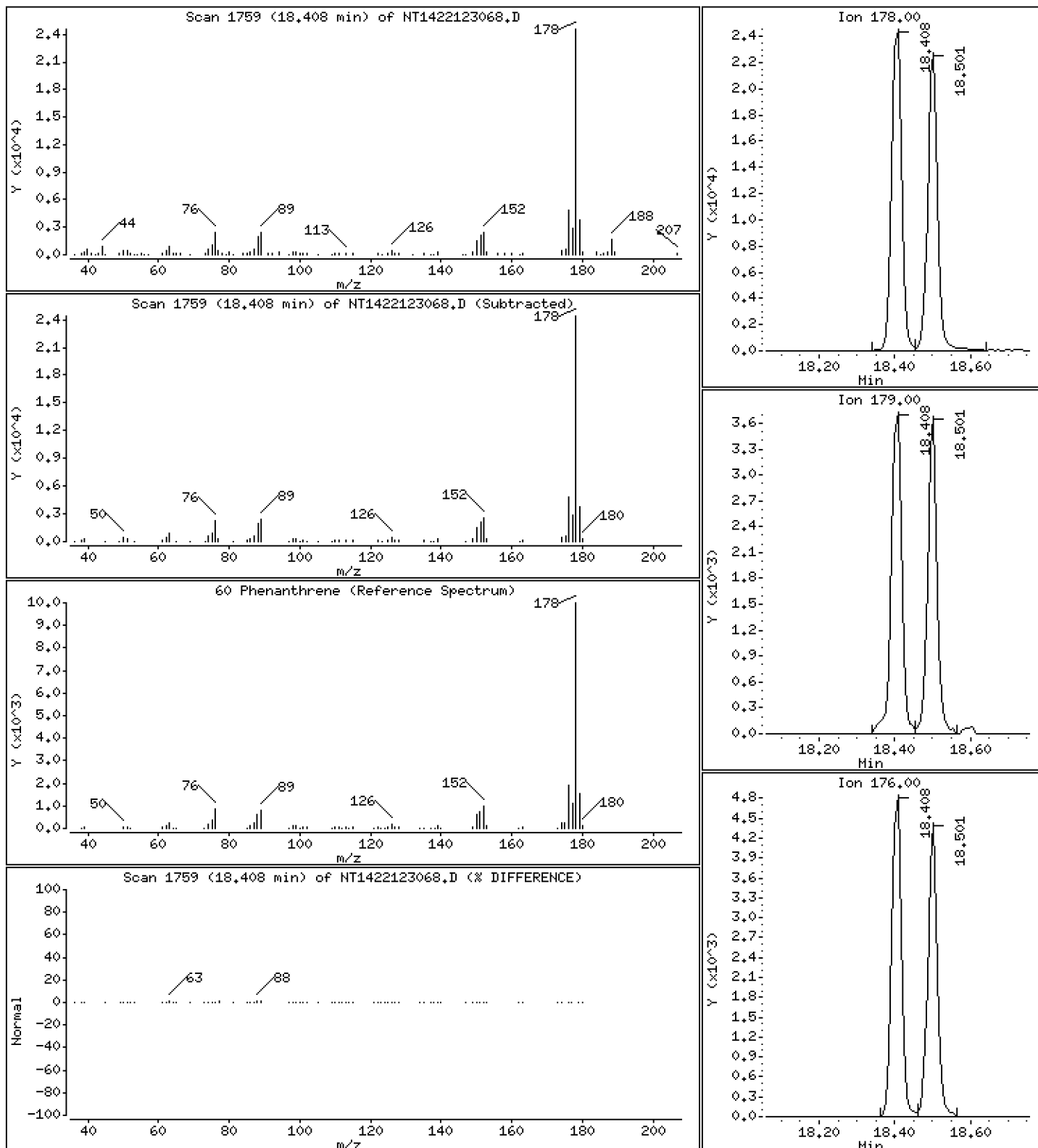
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,4832 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

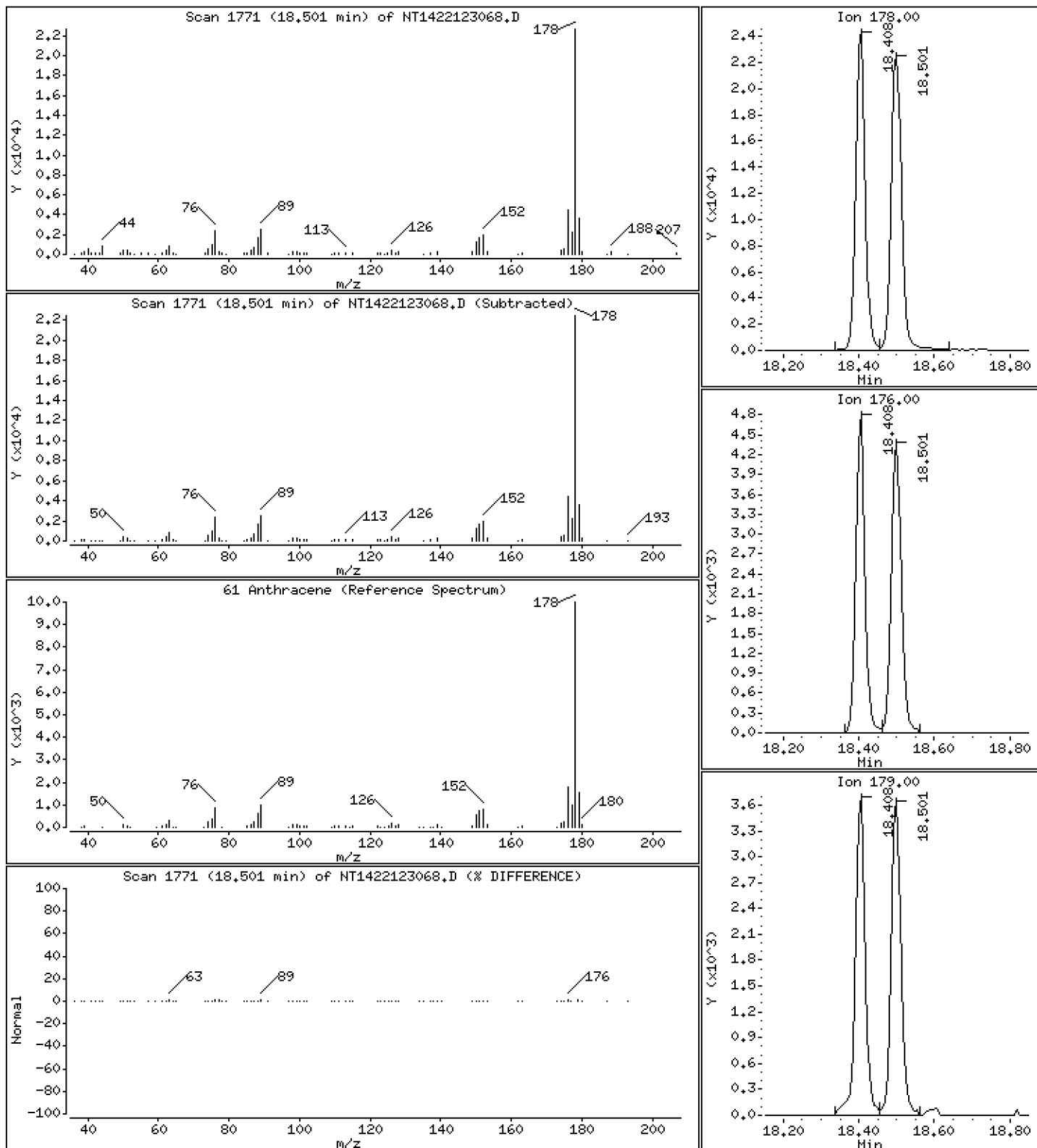
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,4848 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

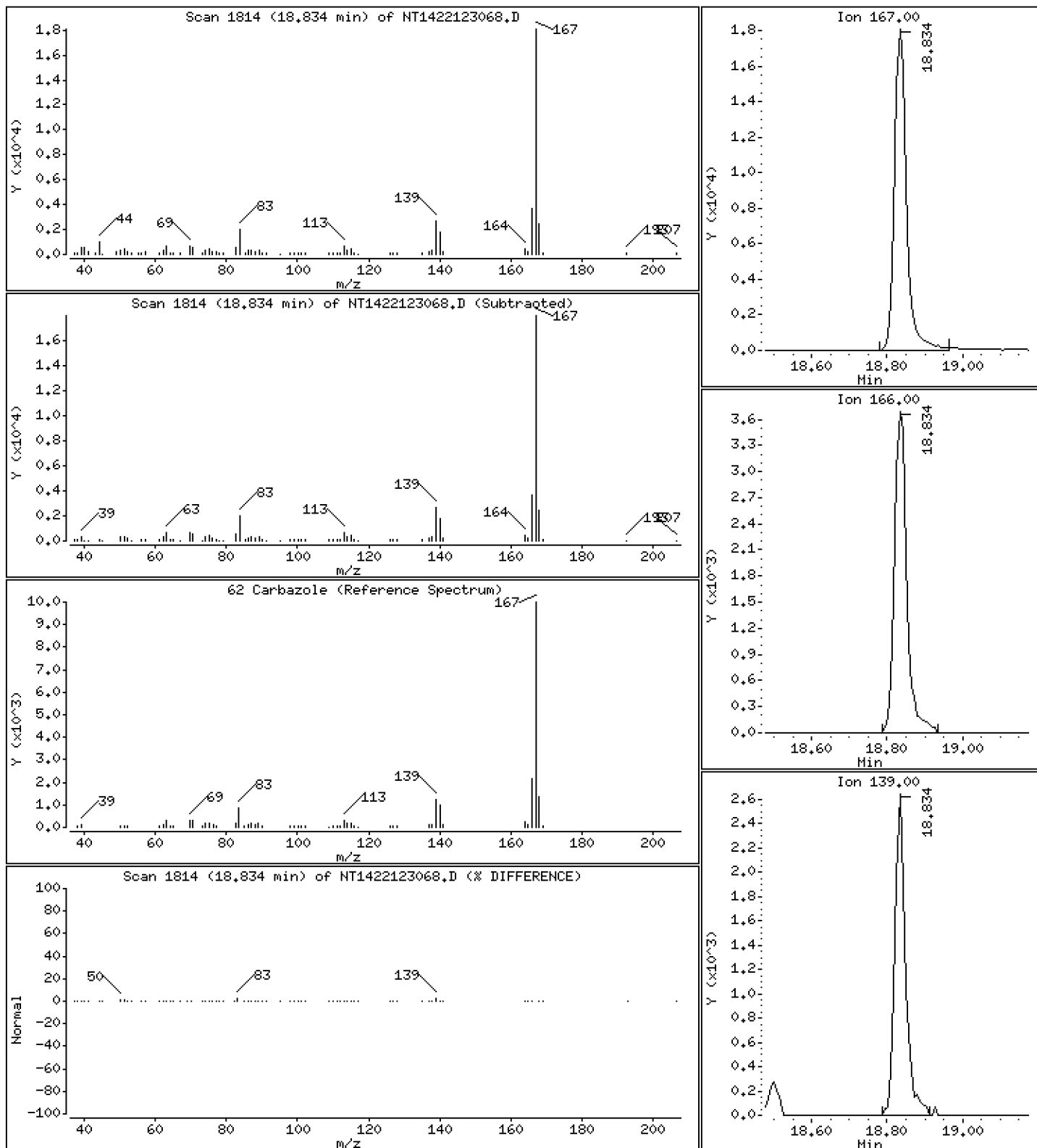
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4681 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

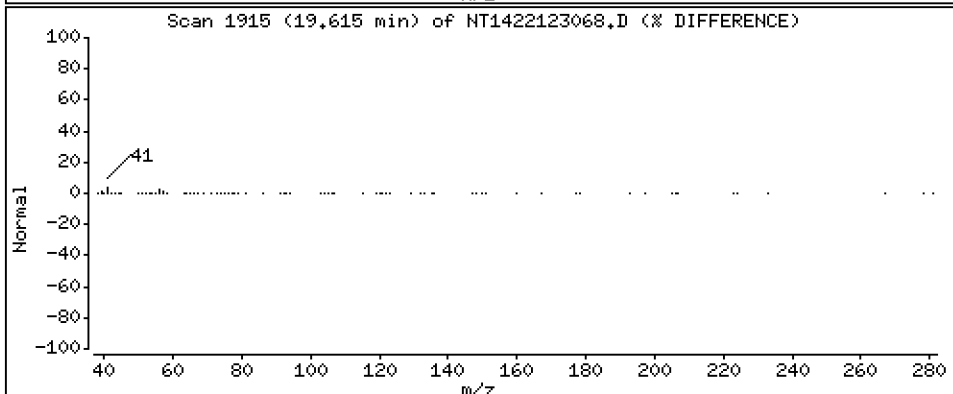
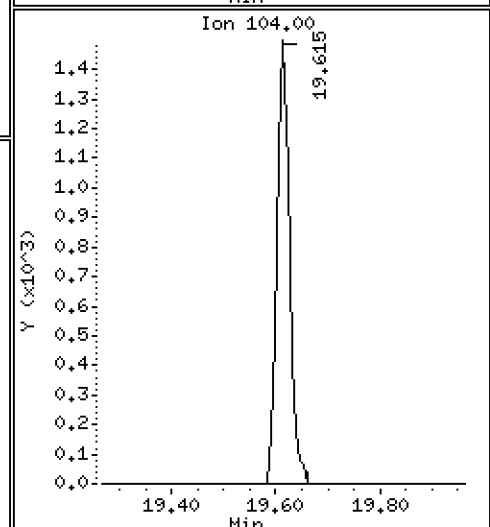
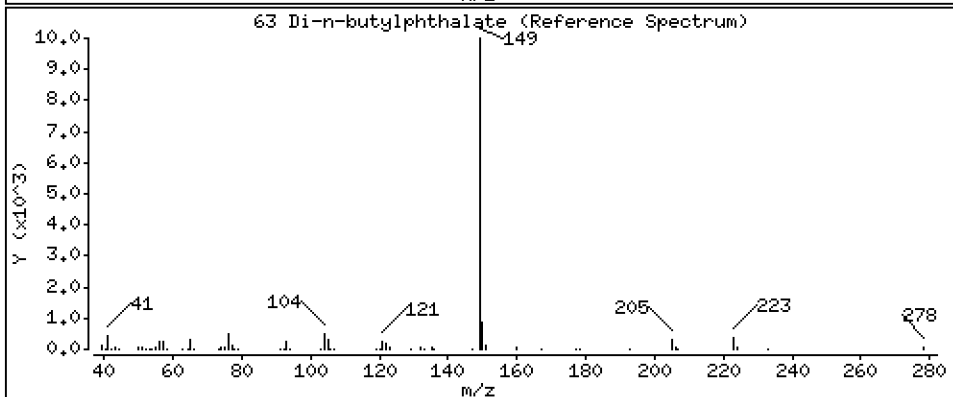
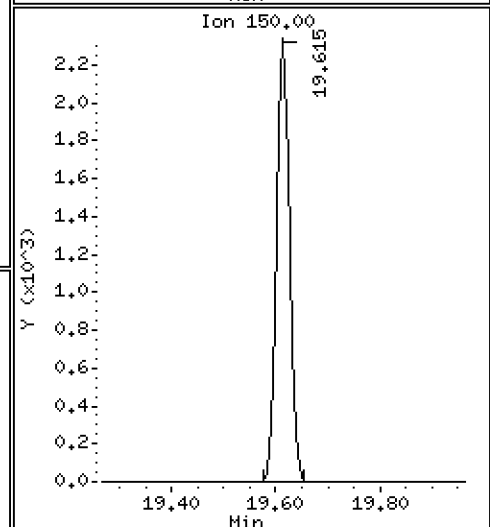
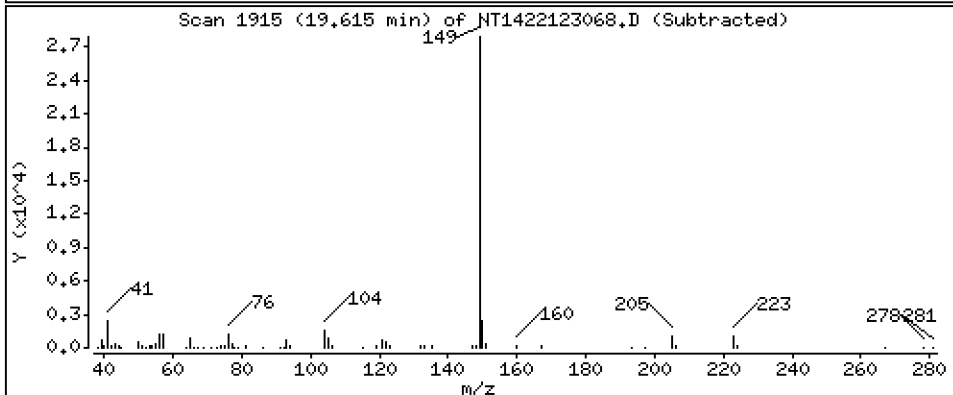
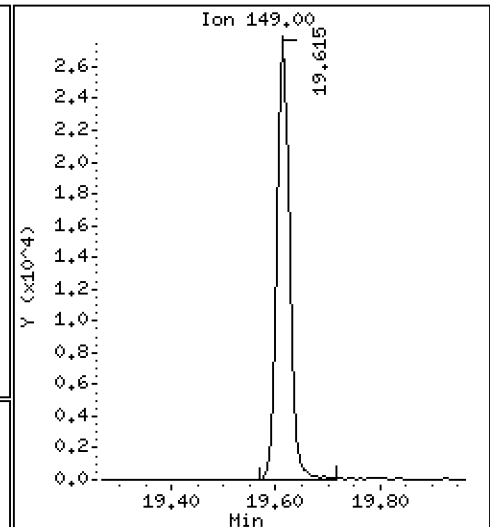
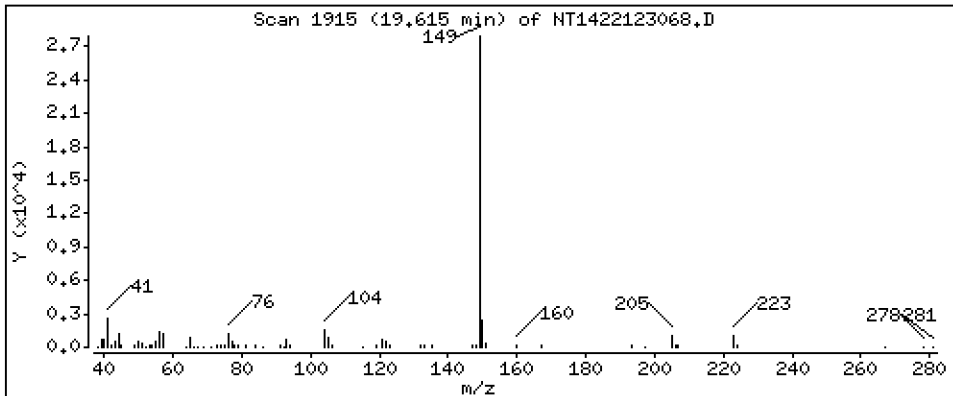
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.4789 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

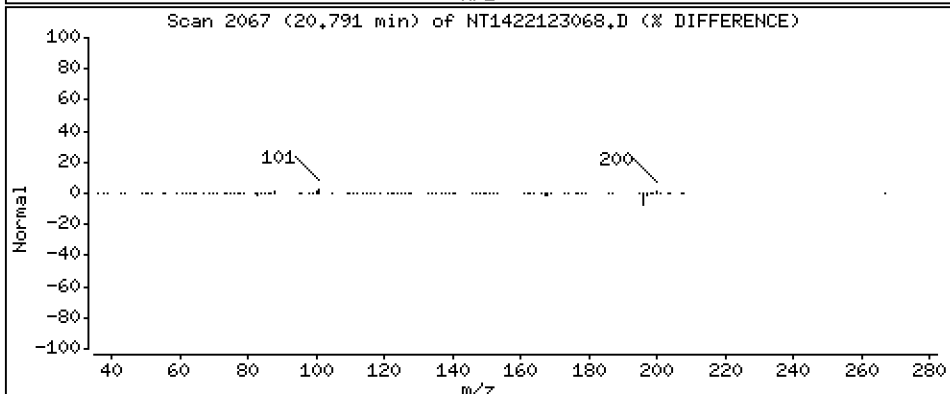
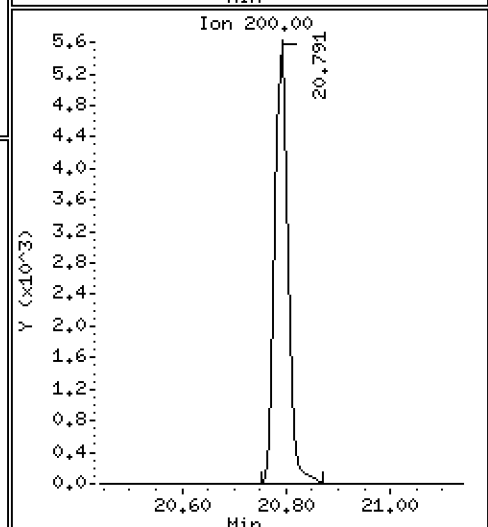
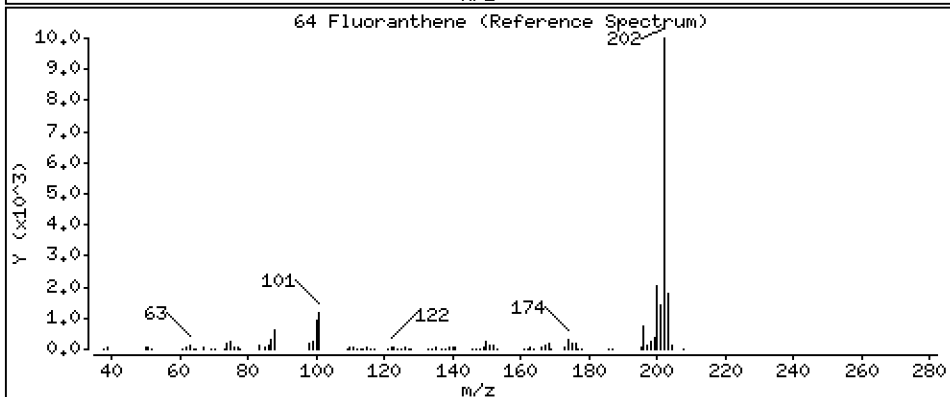
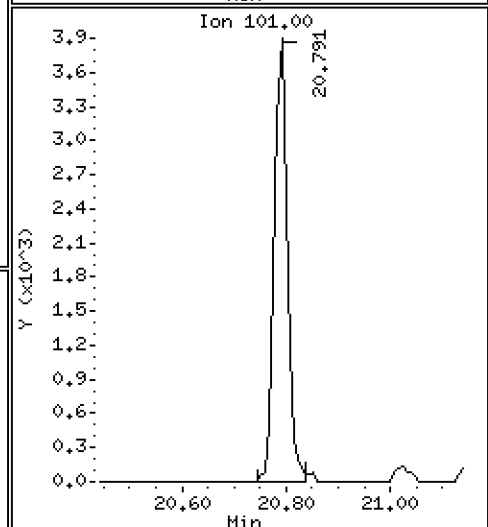
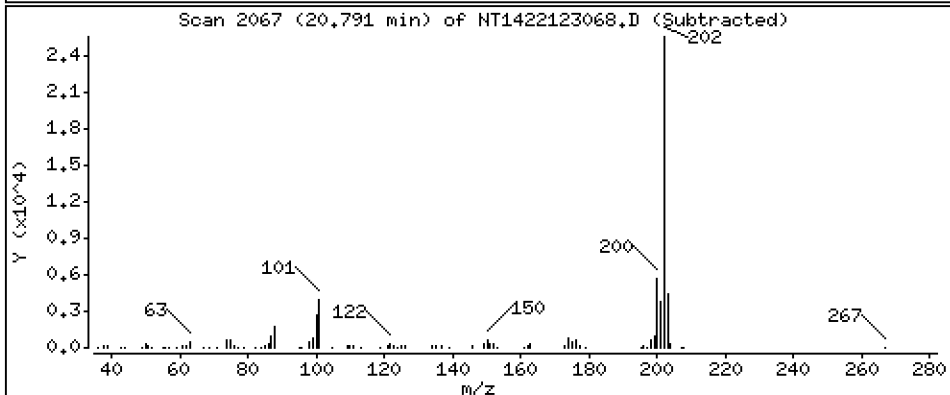
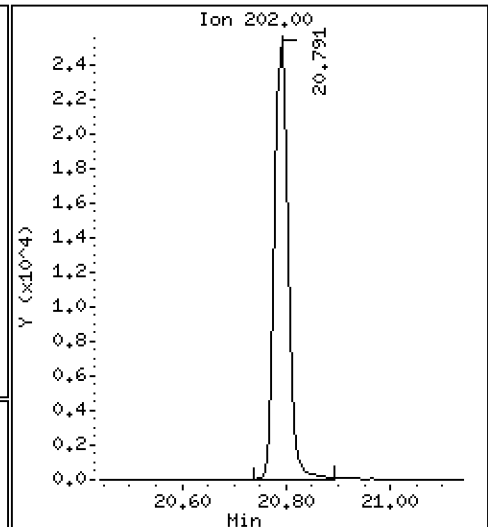
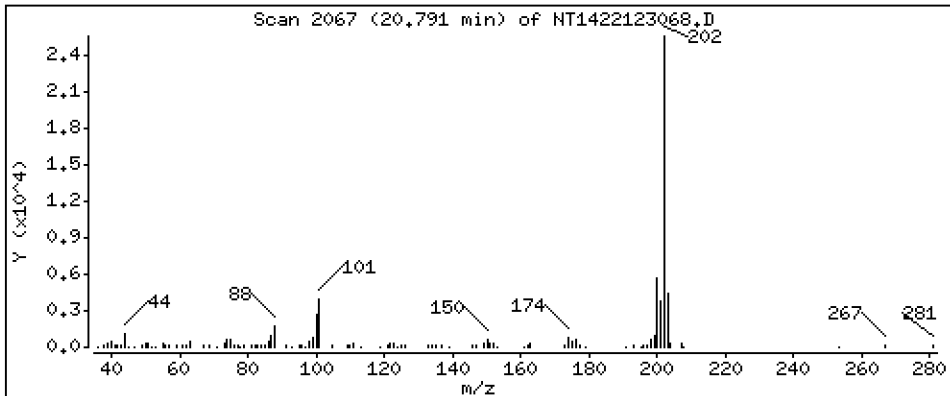
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4720 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

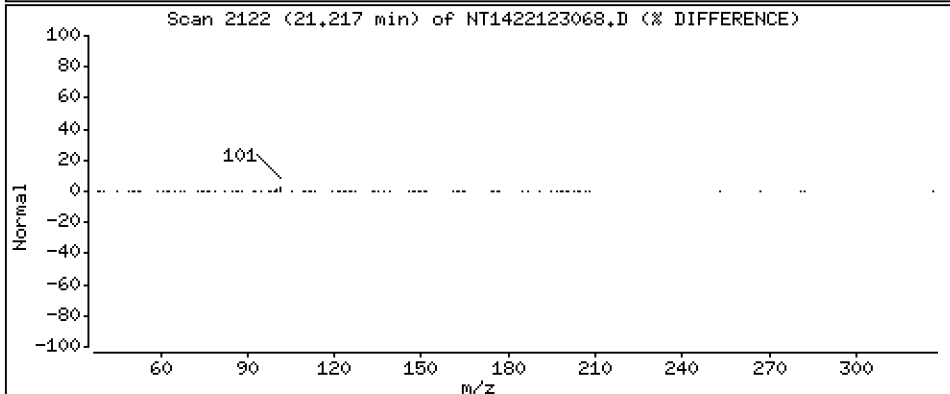
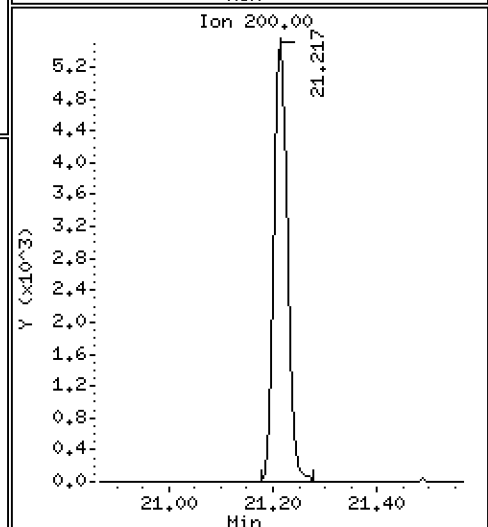
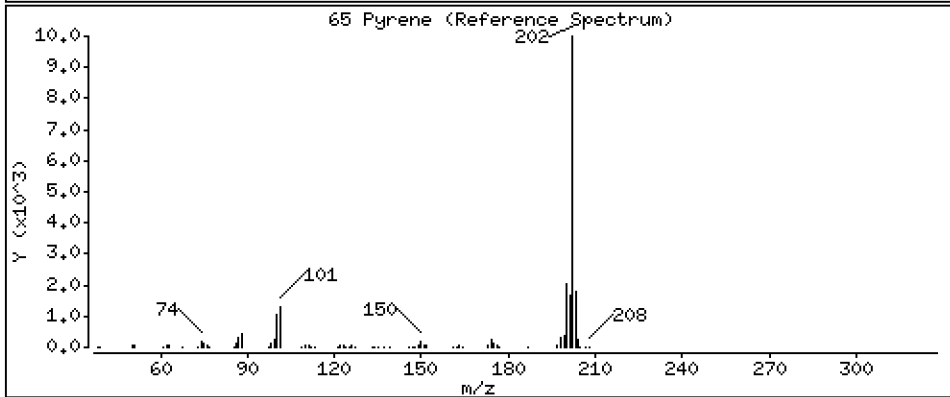
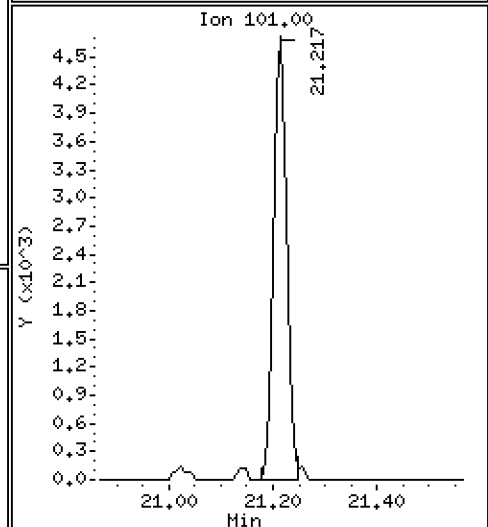
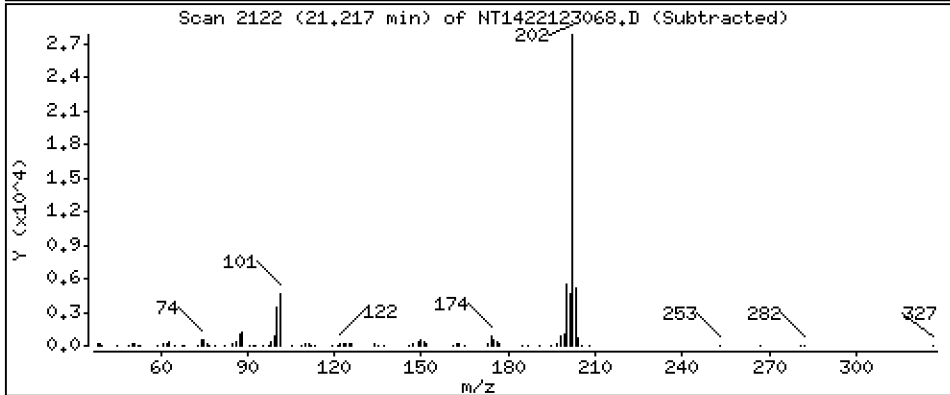
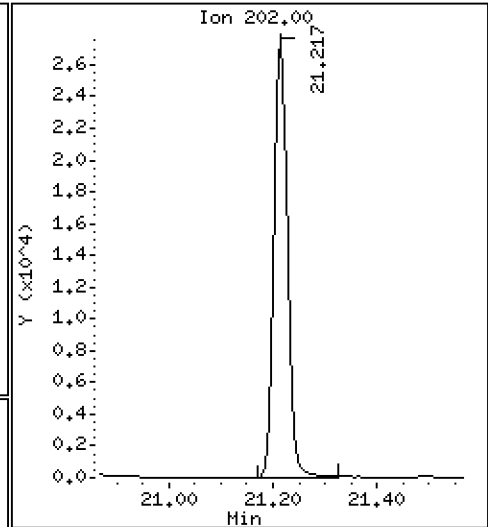
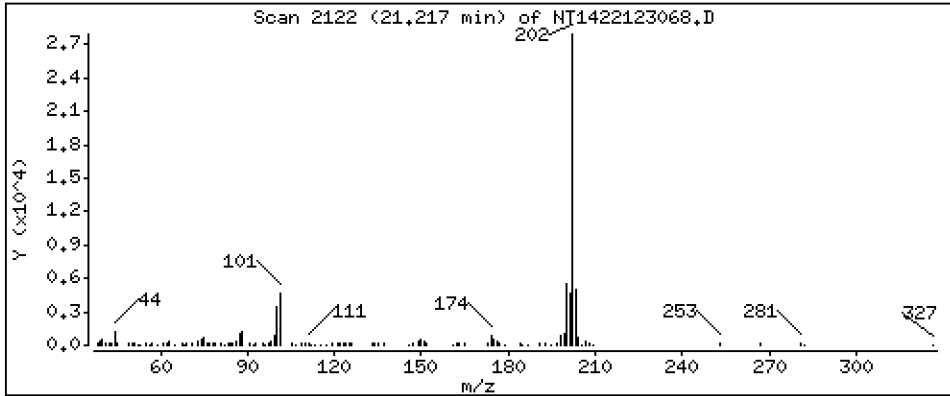
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4811 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

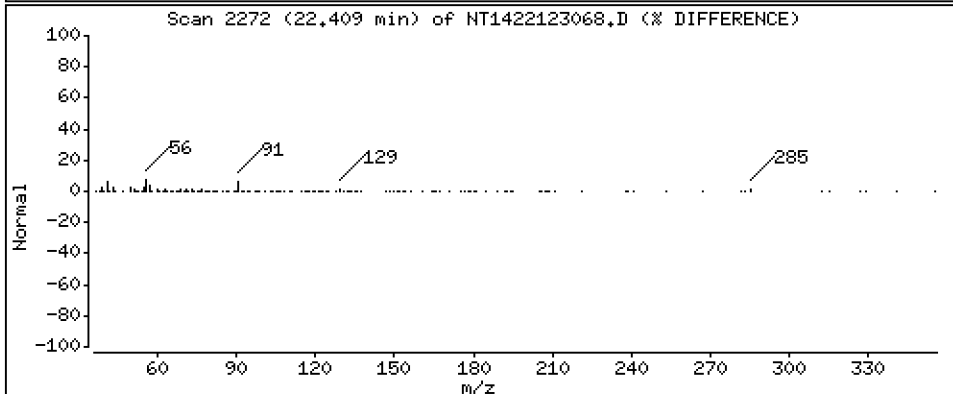
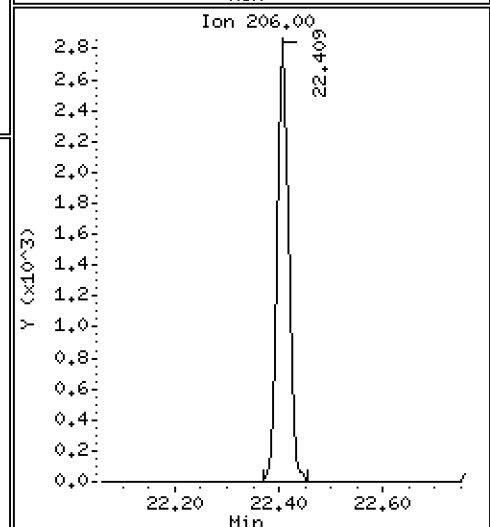
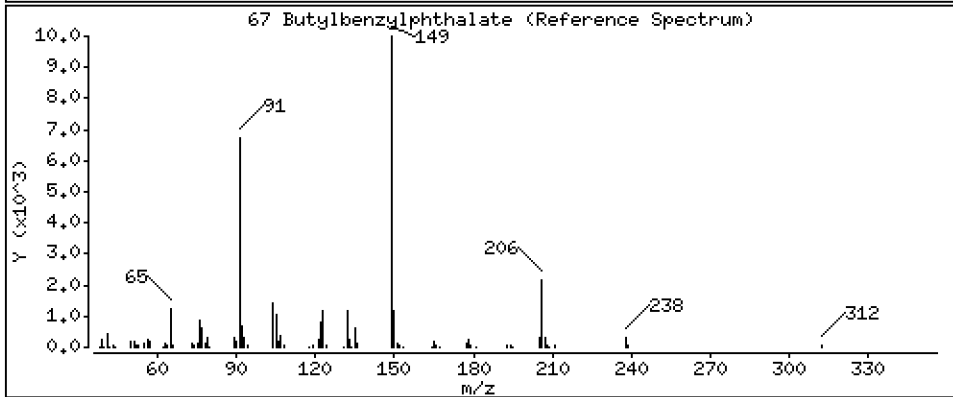
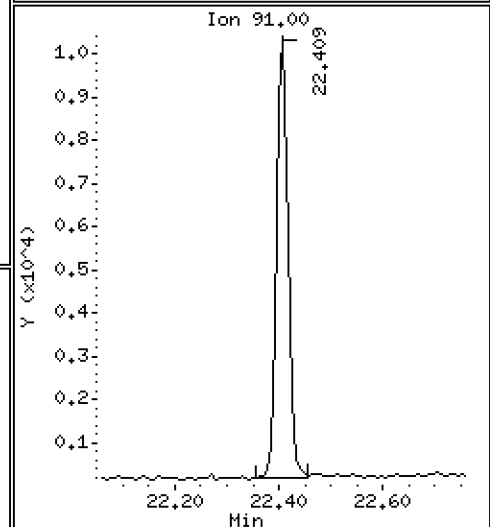
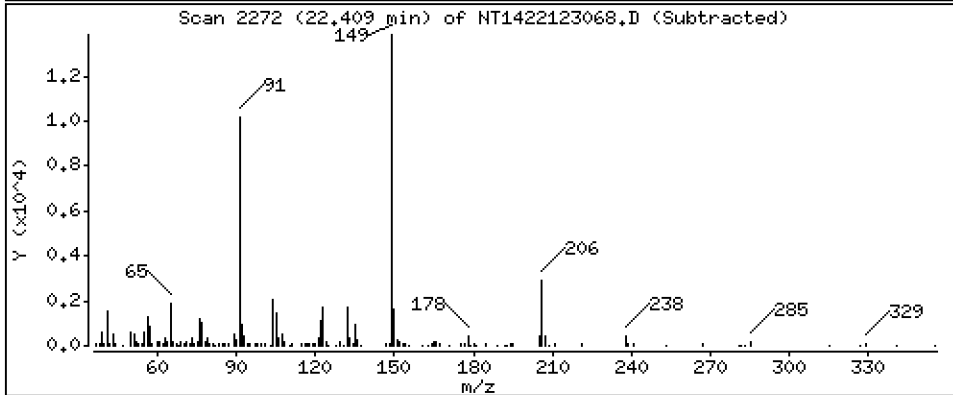
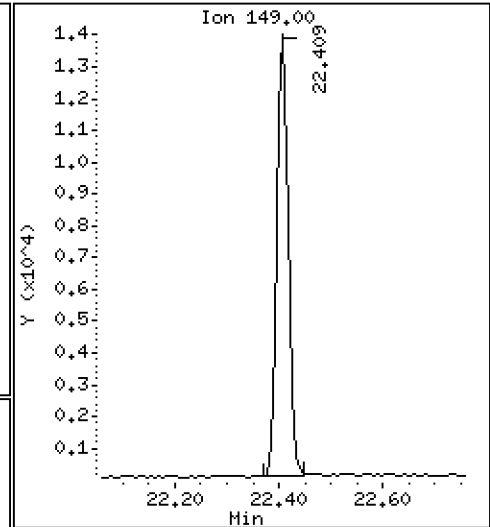
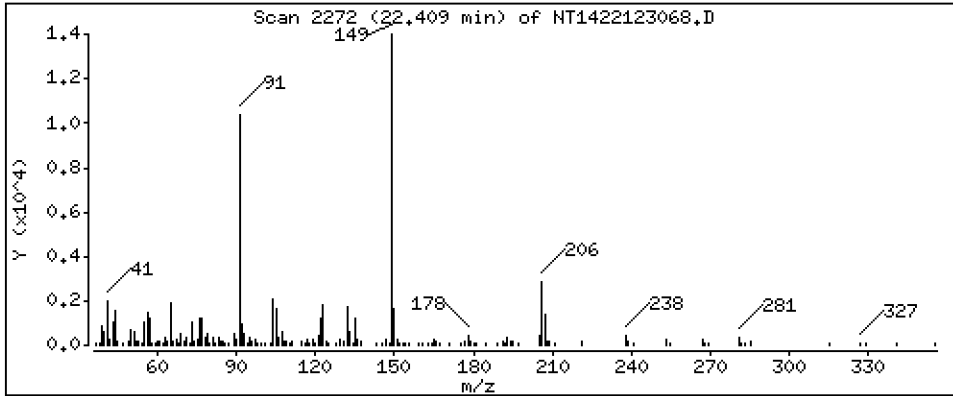
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5261 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

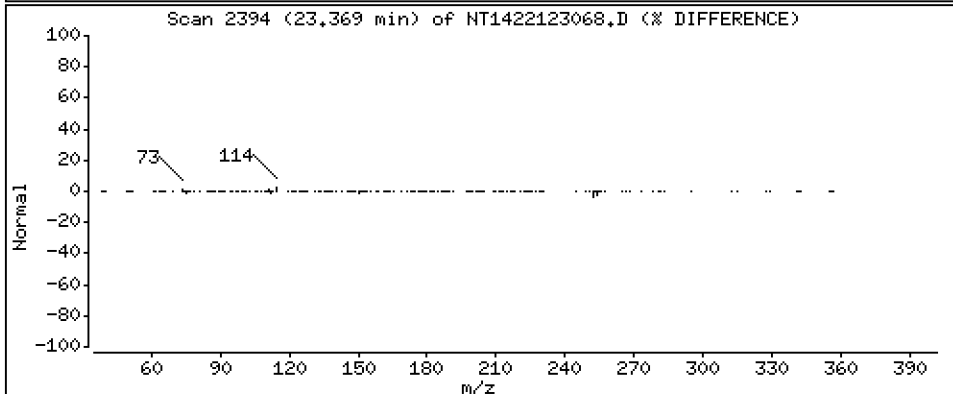
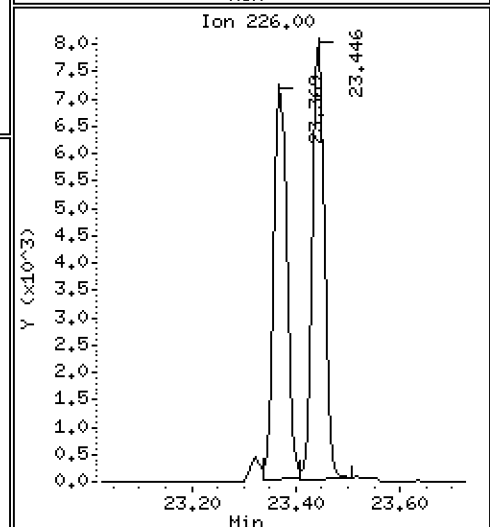
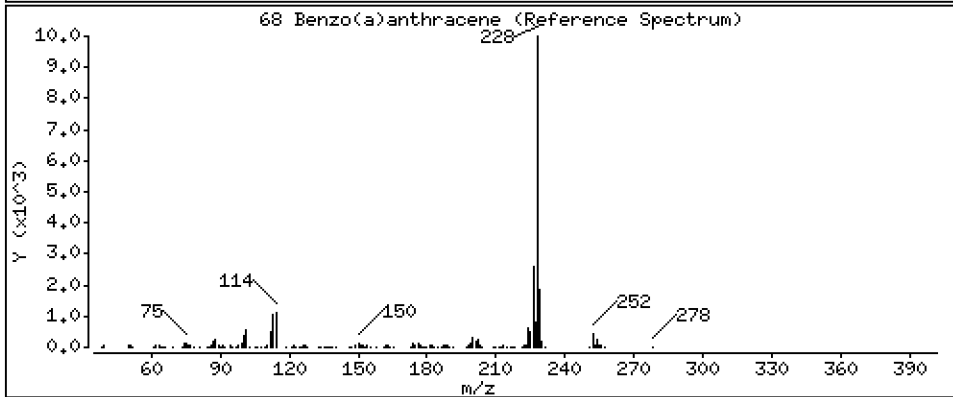
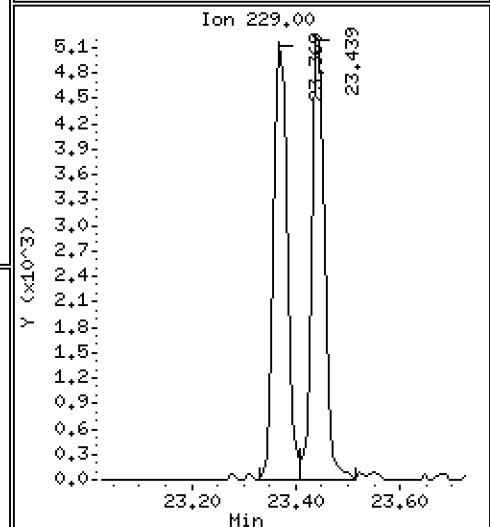
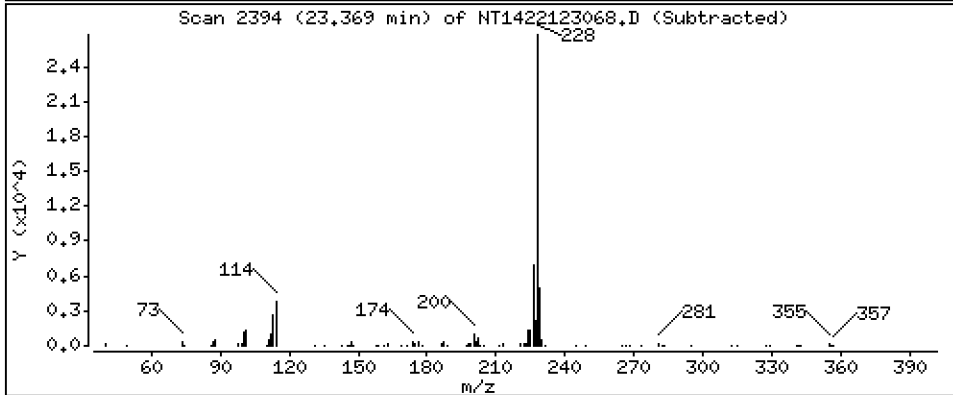
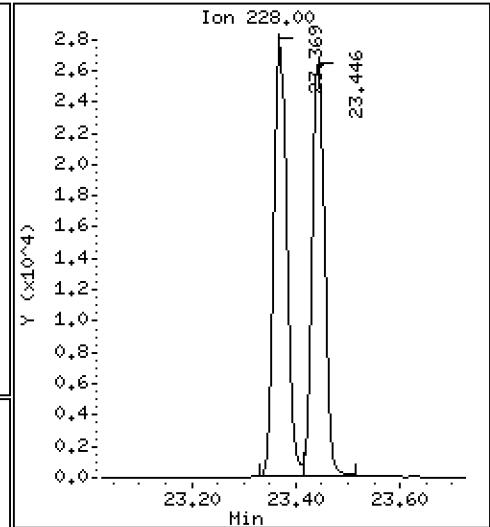
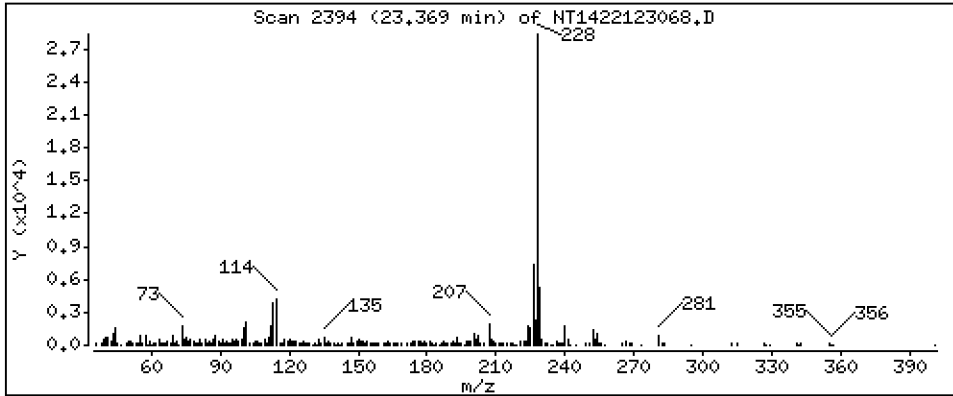
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5206 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

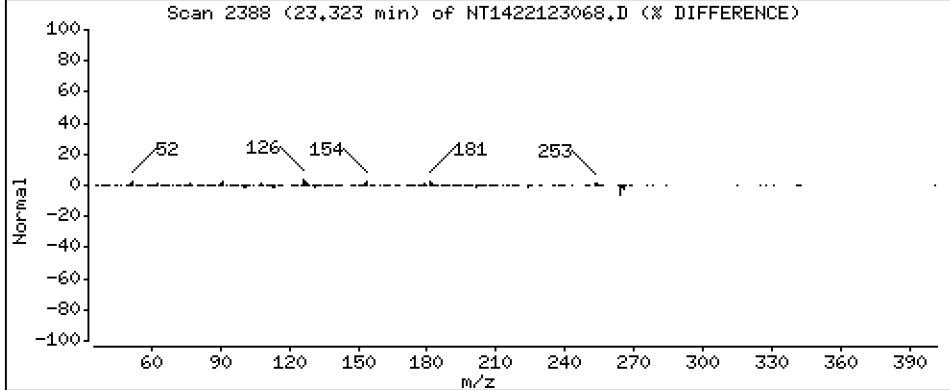
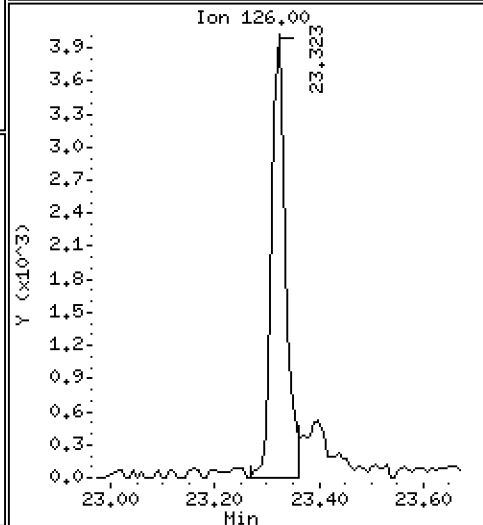
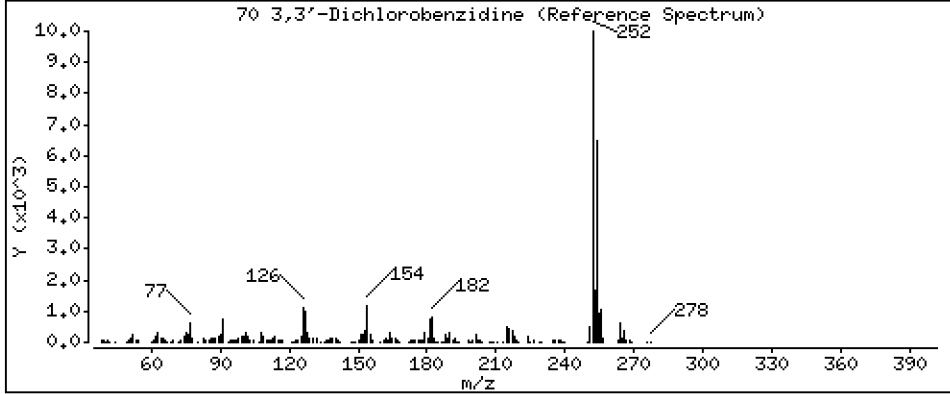
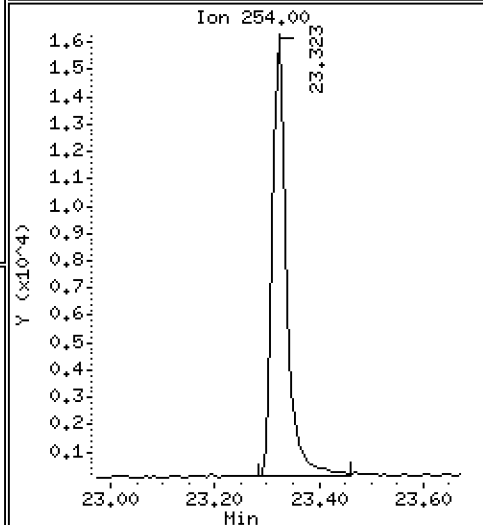
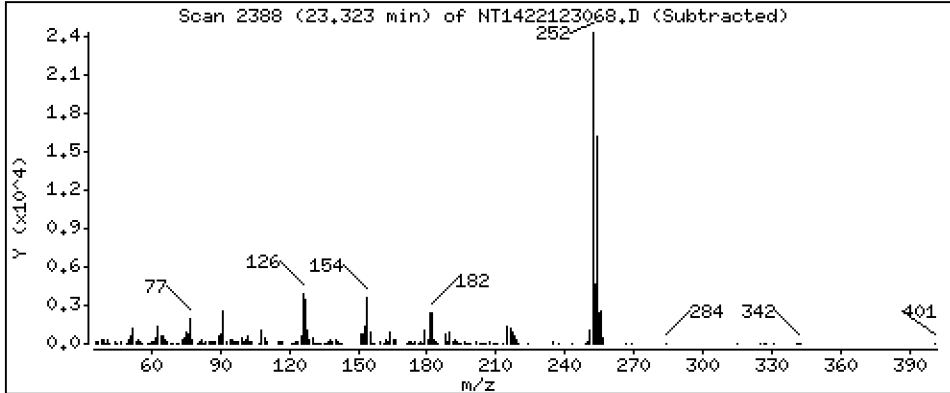
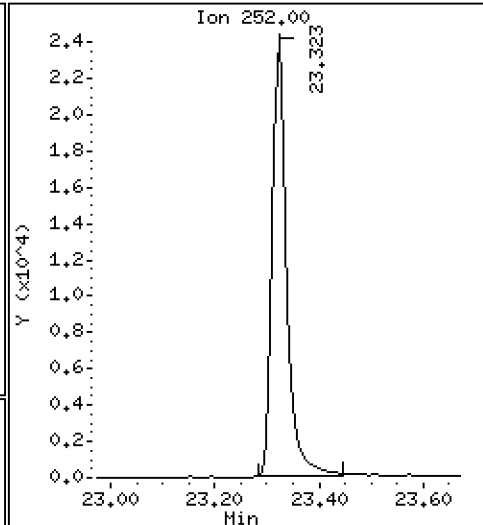
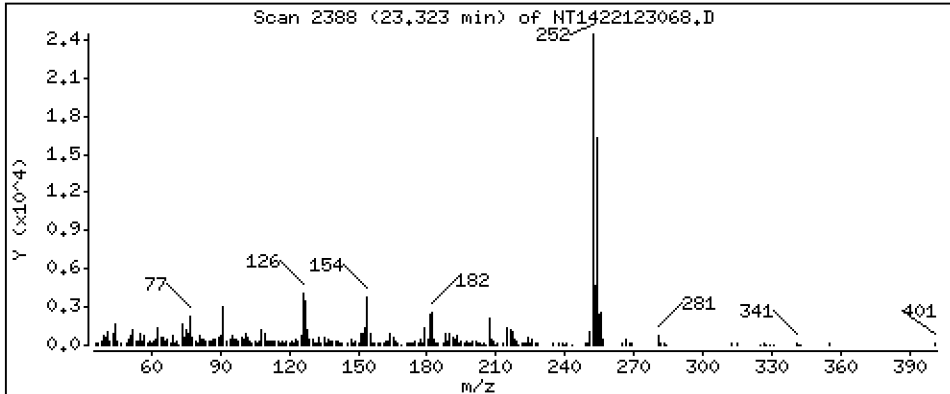
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,641 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

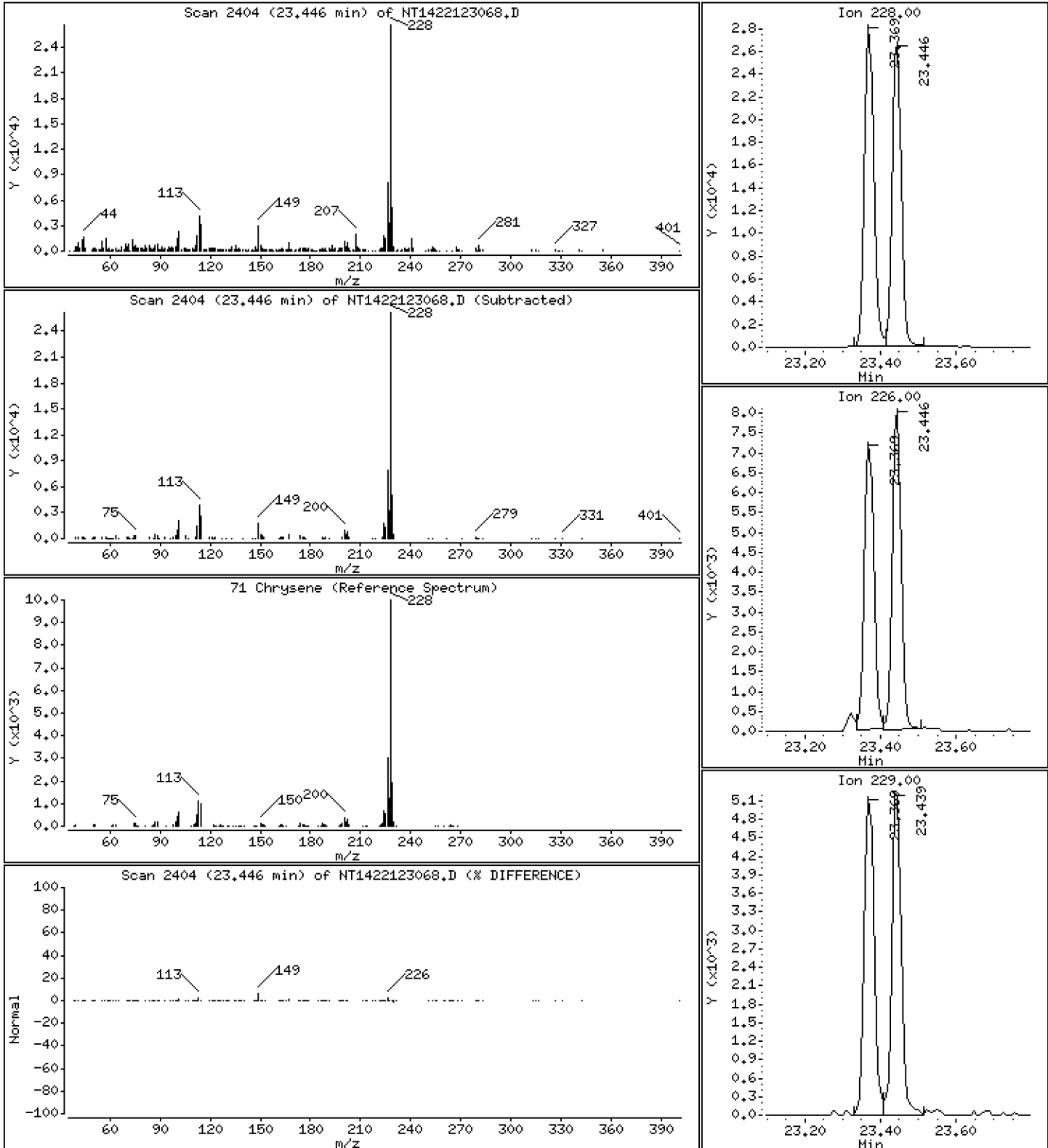
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5001 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

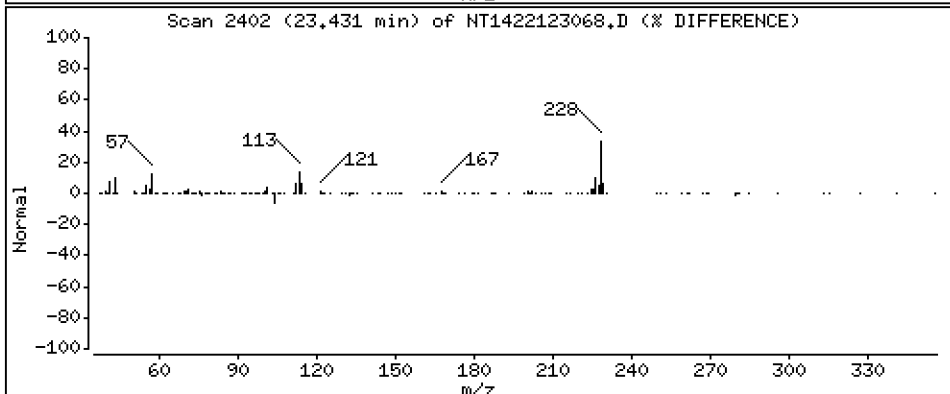
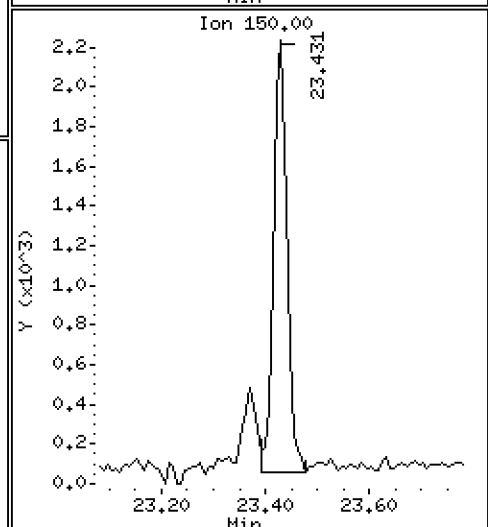
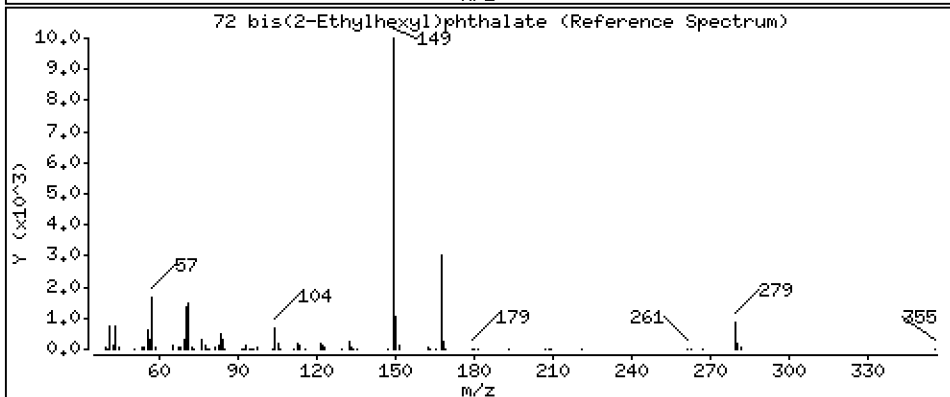
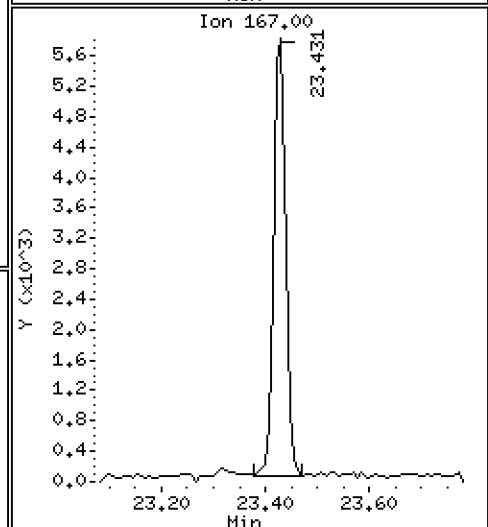
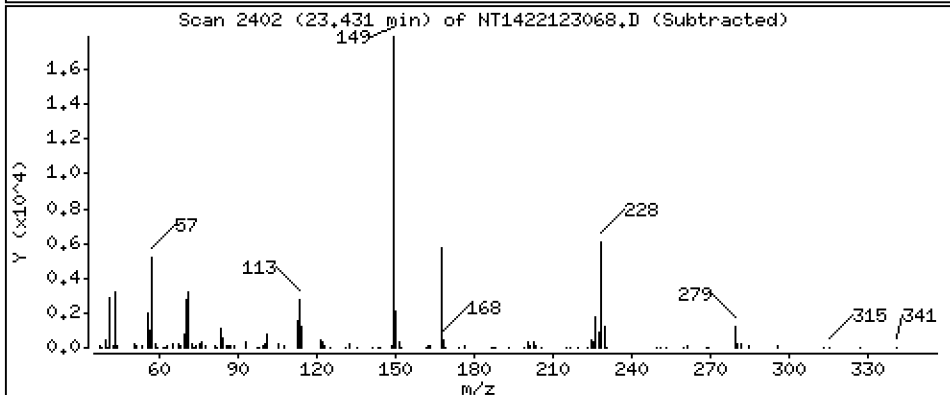
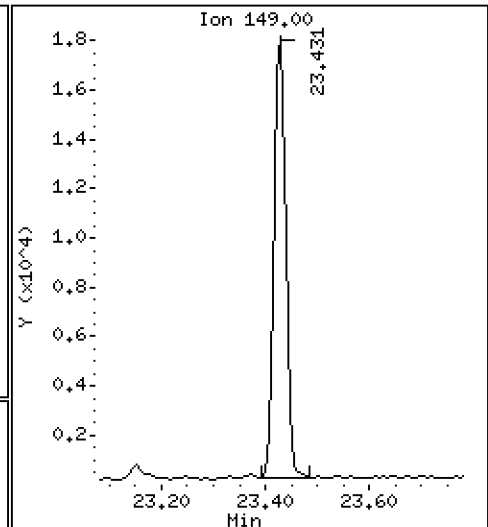
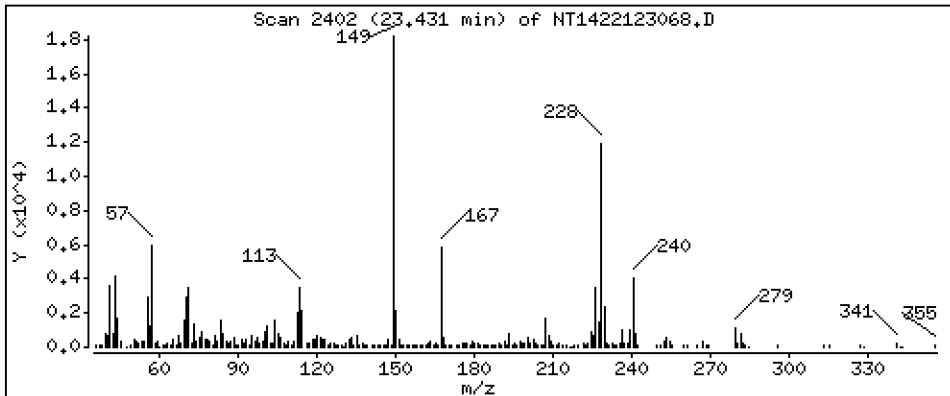
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,5136 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

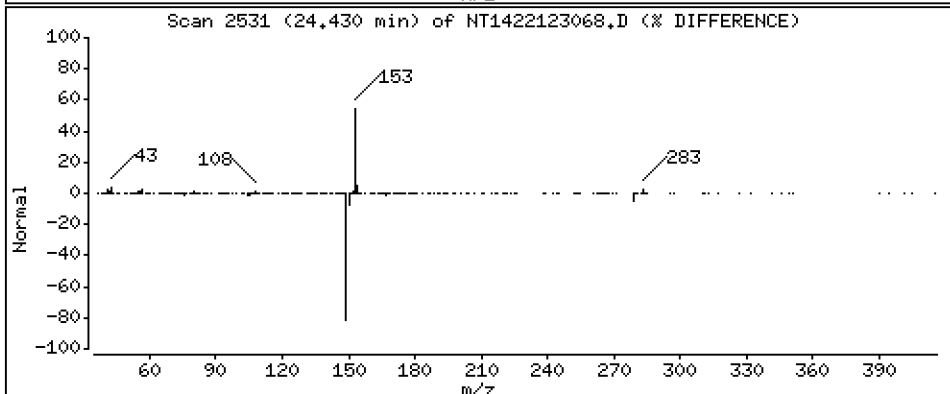
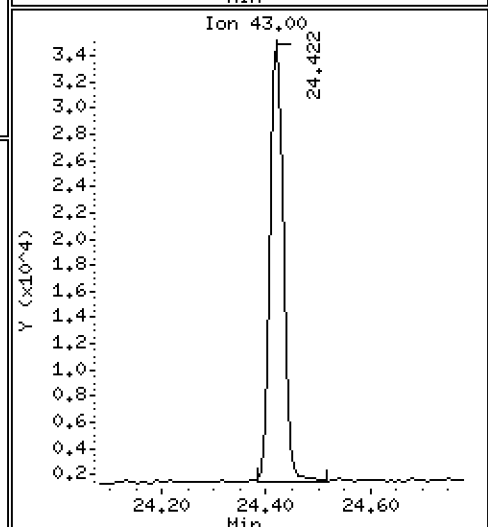
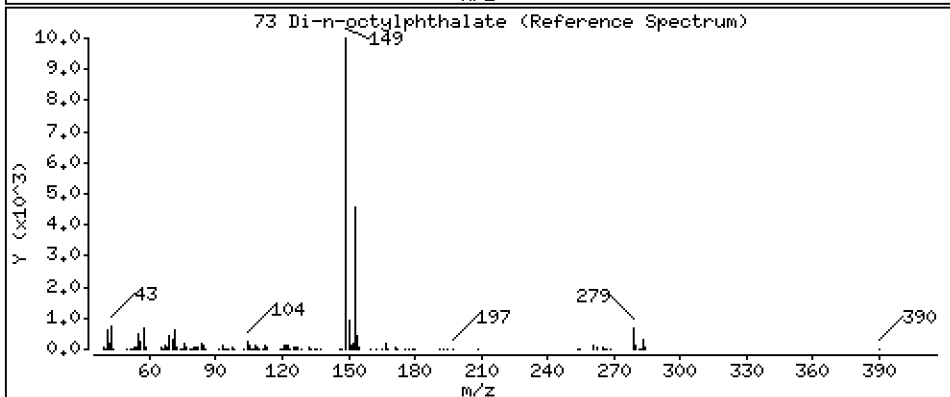
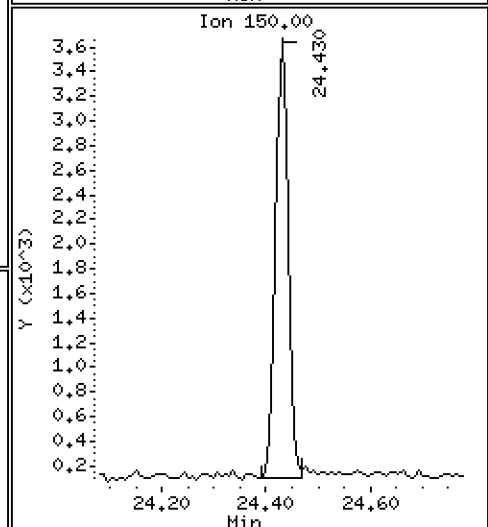
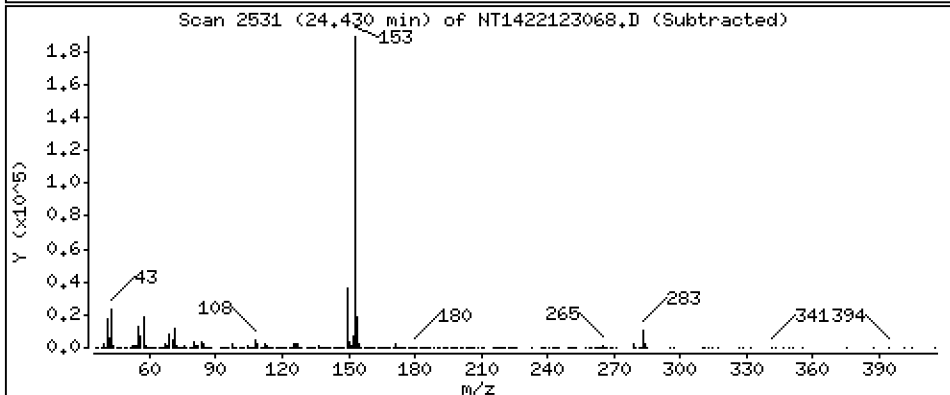
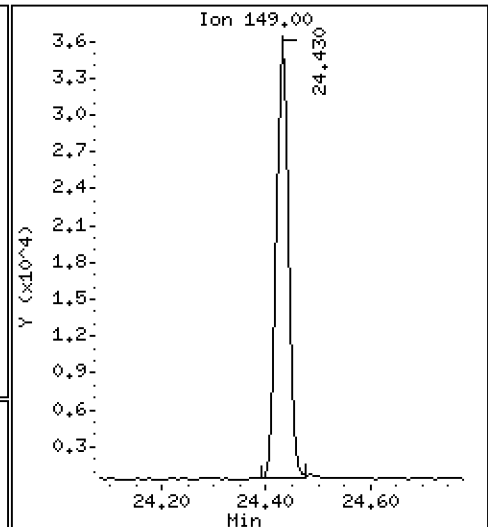
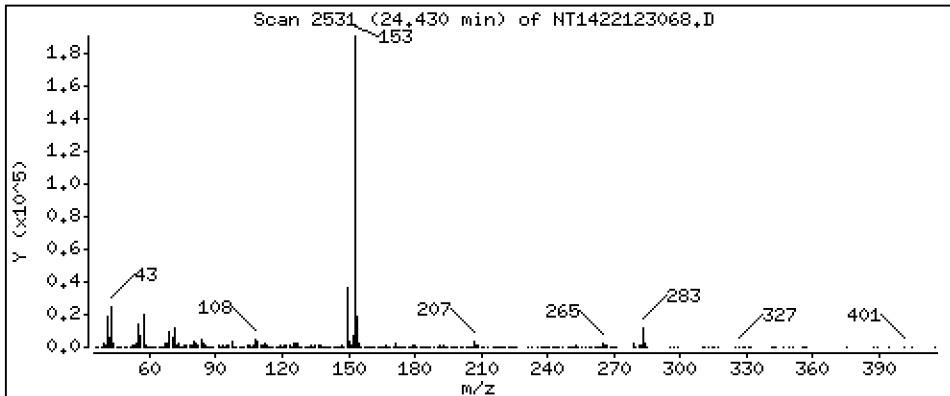
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,4900 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

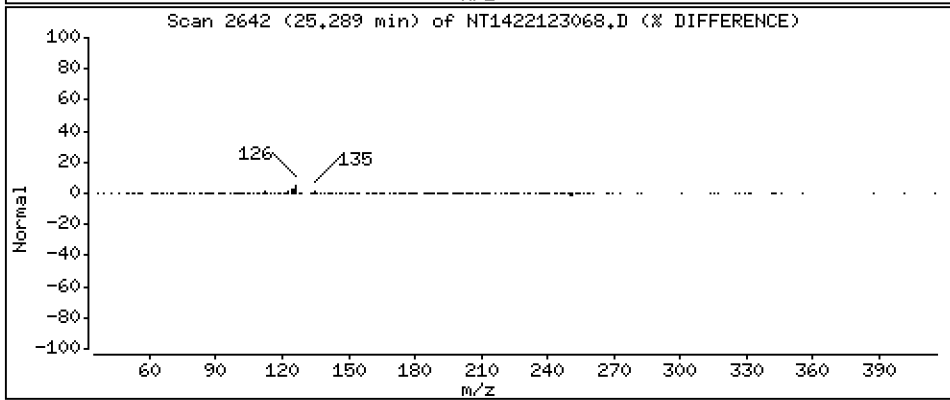
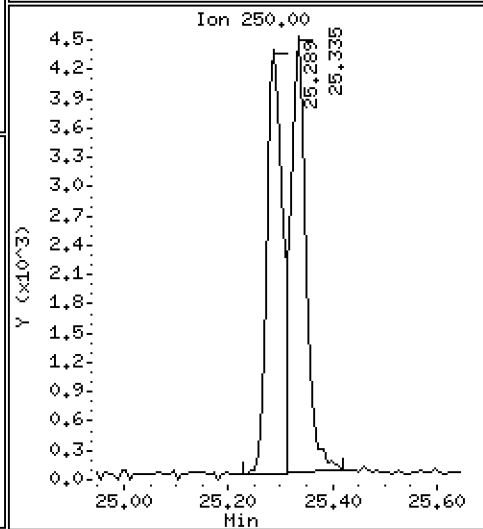
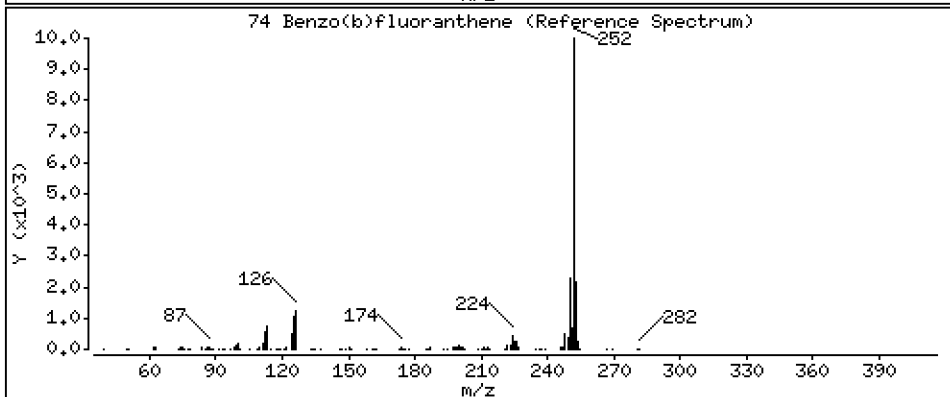
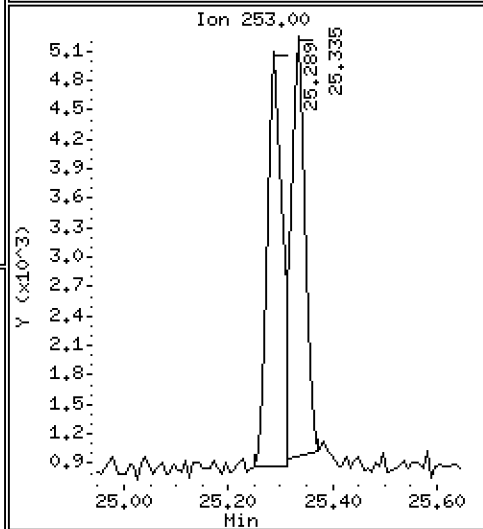
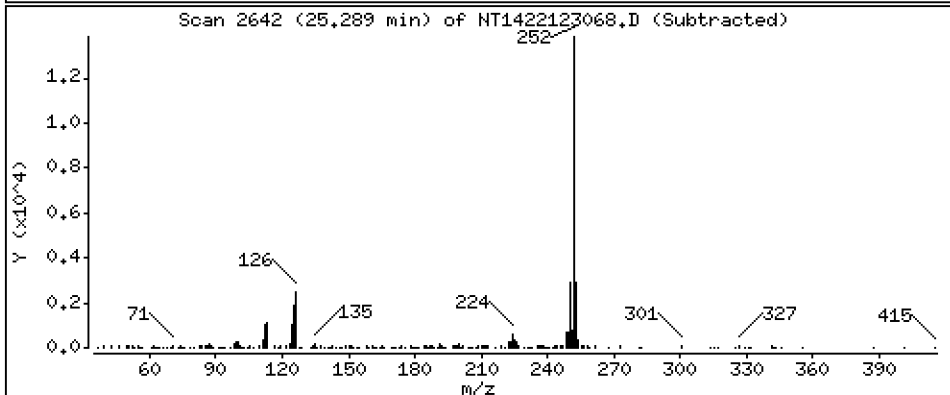
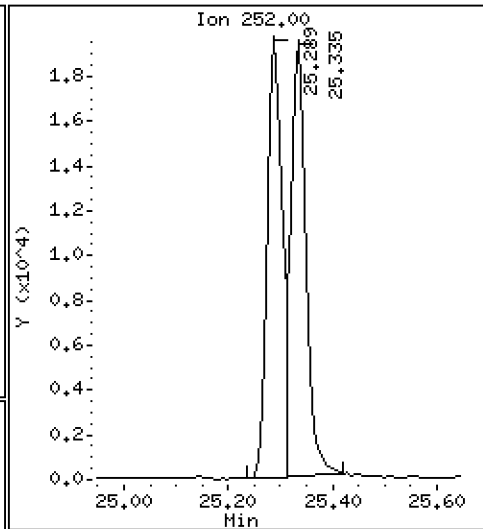
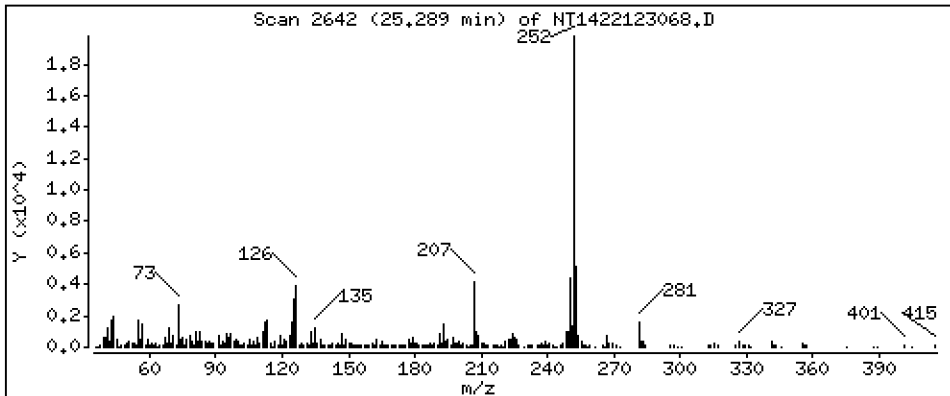
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5437 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

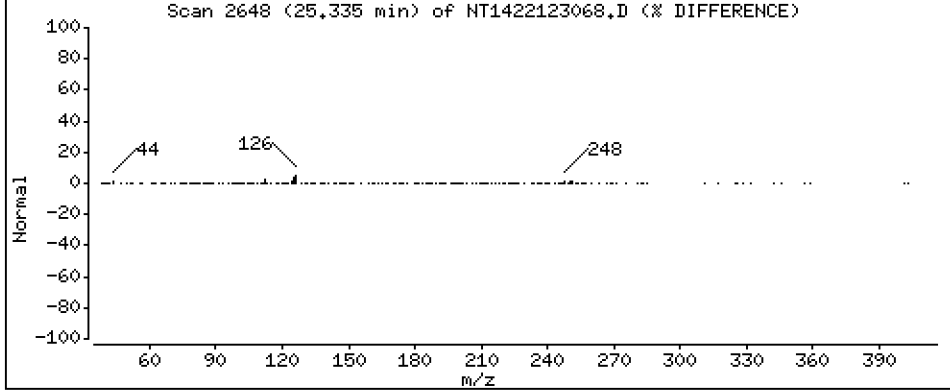
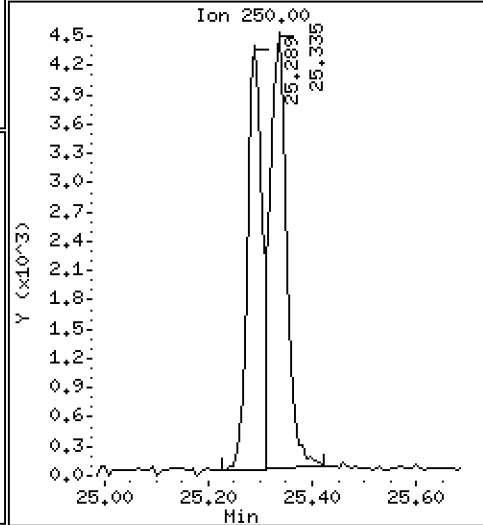
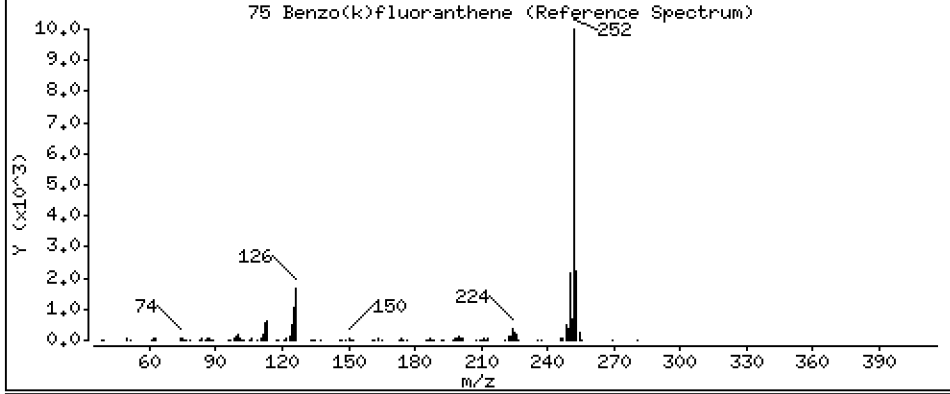
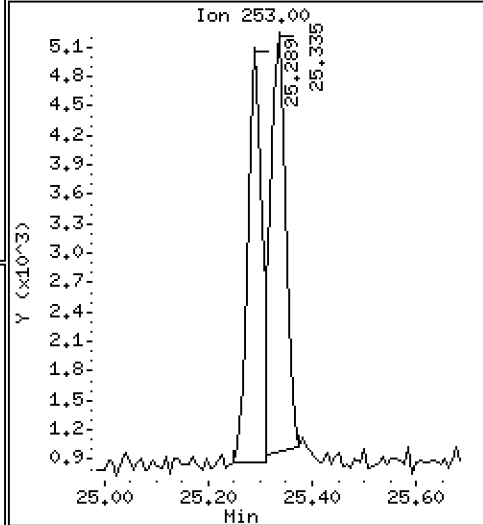
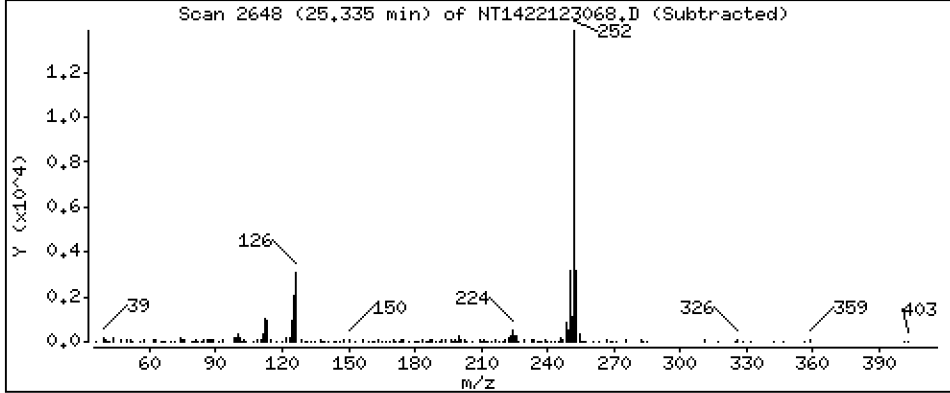
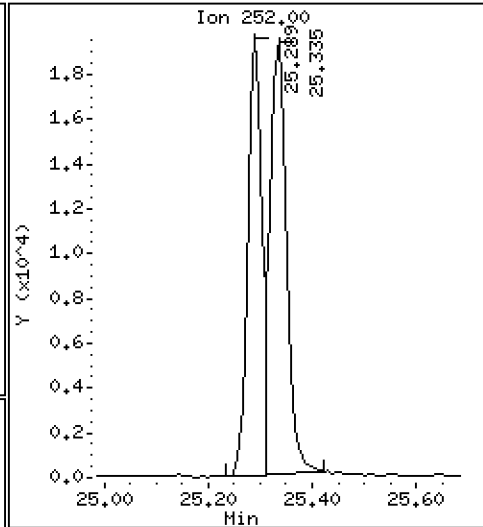
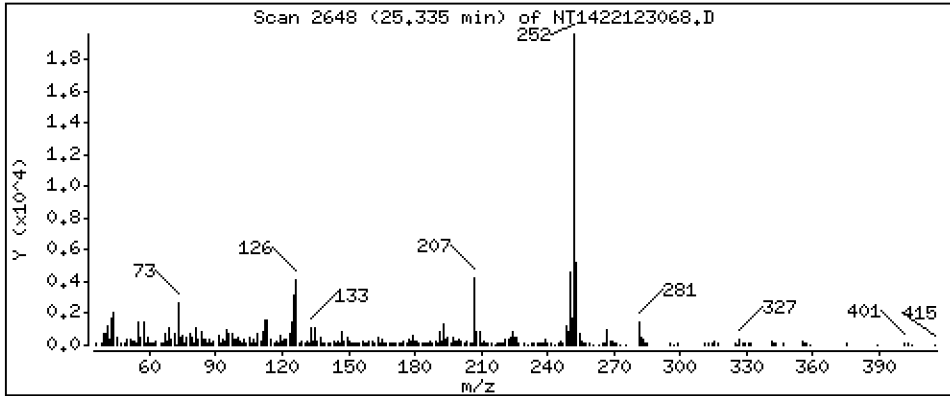
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5702 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

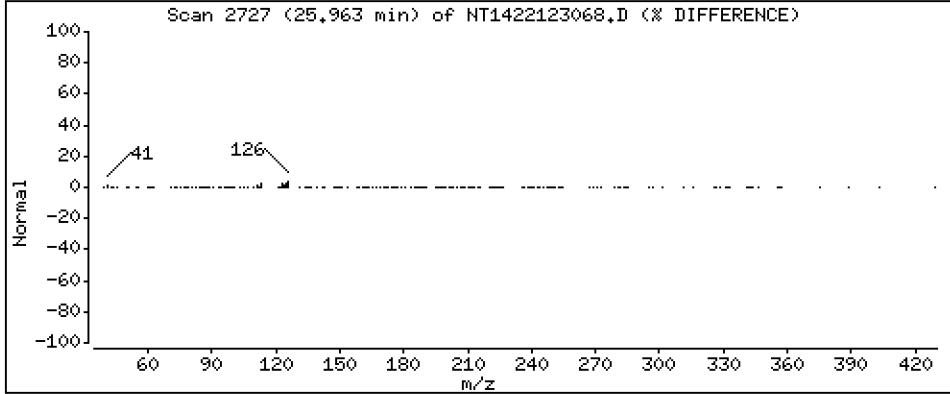
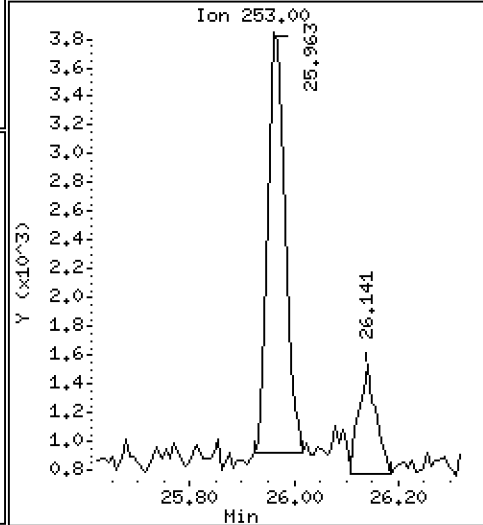
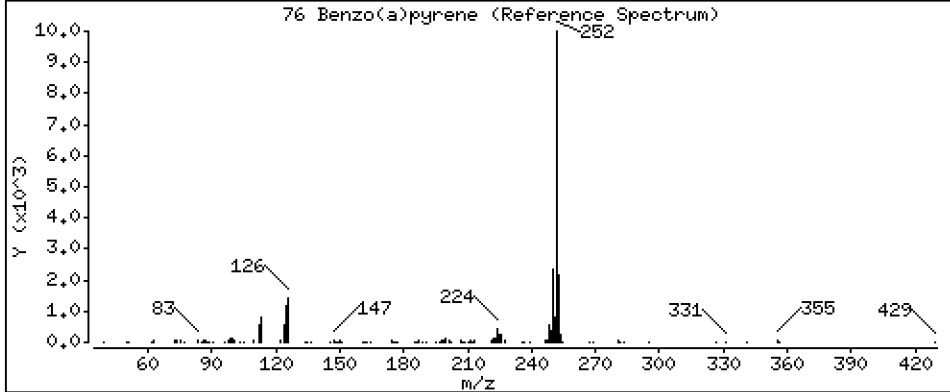
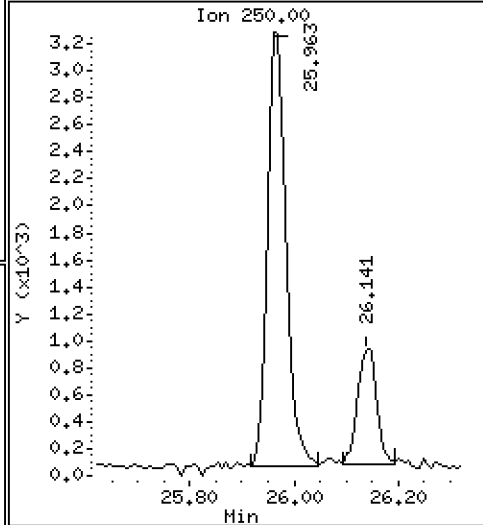
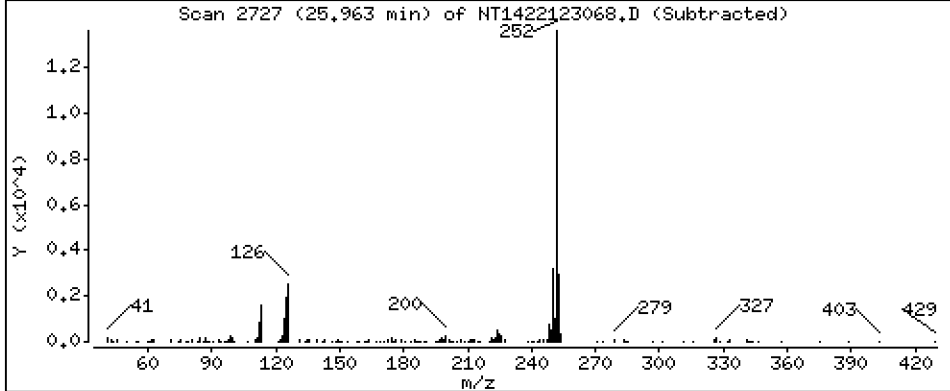
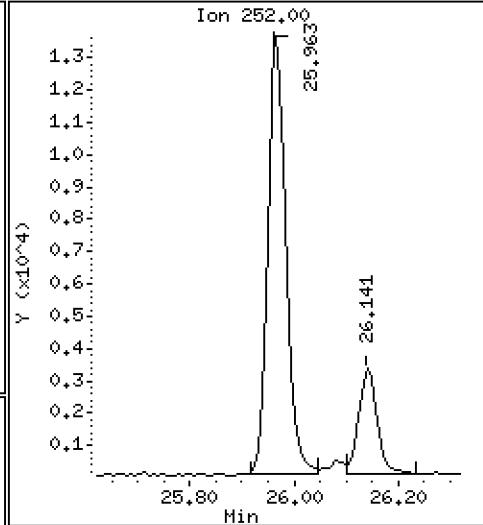
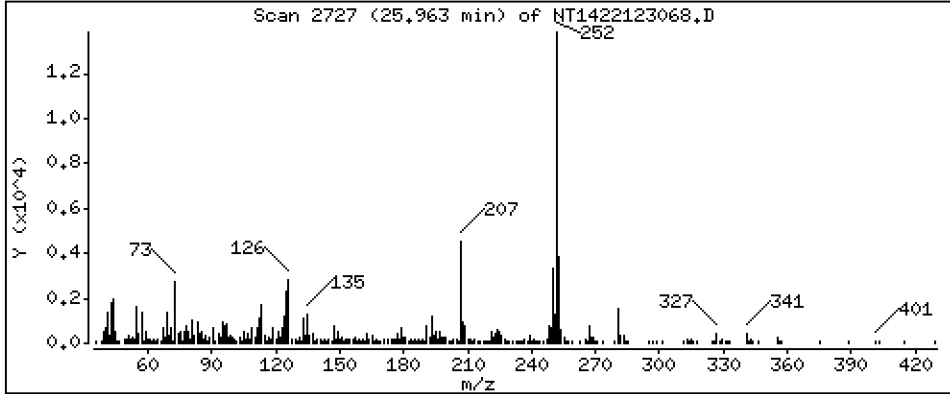
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5296 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

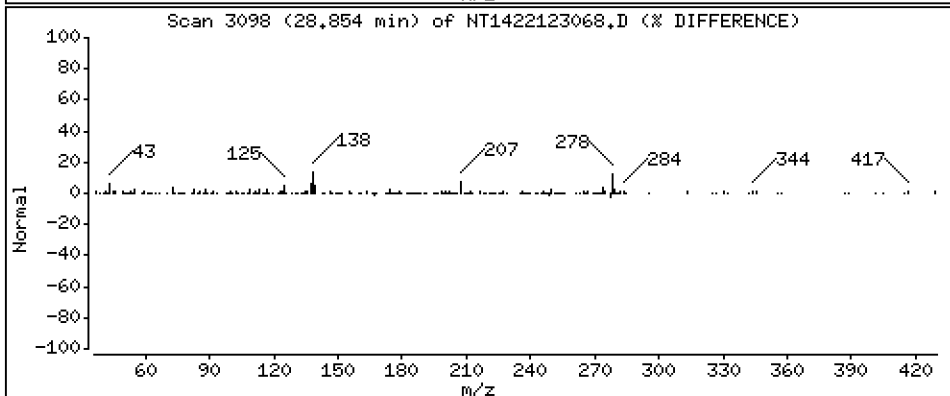
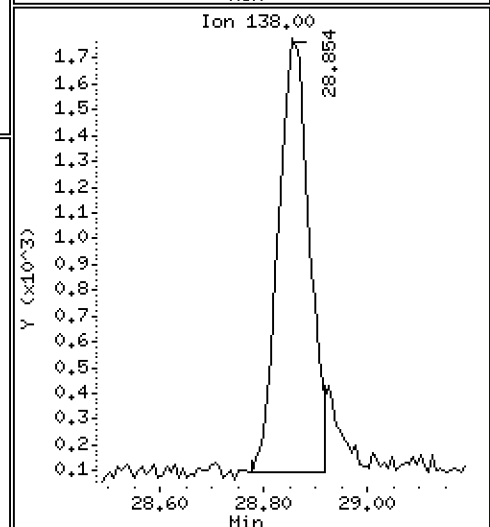
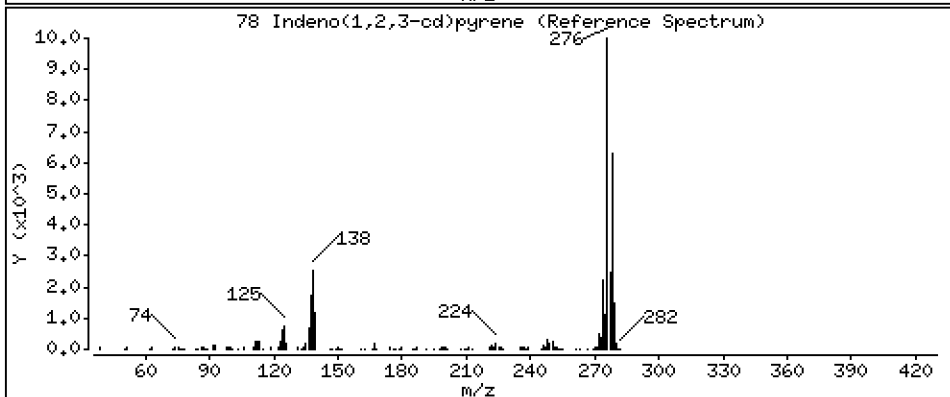
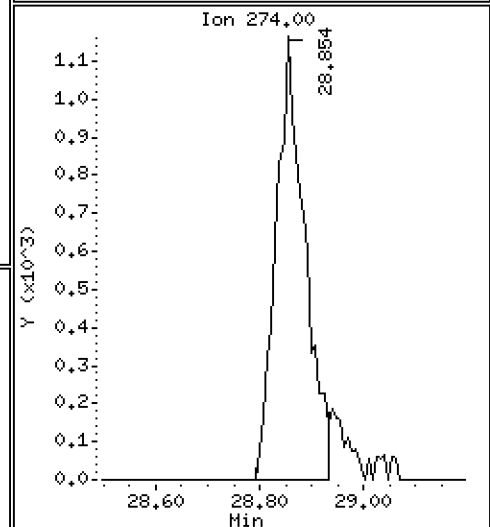
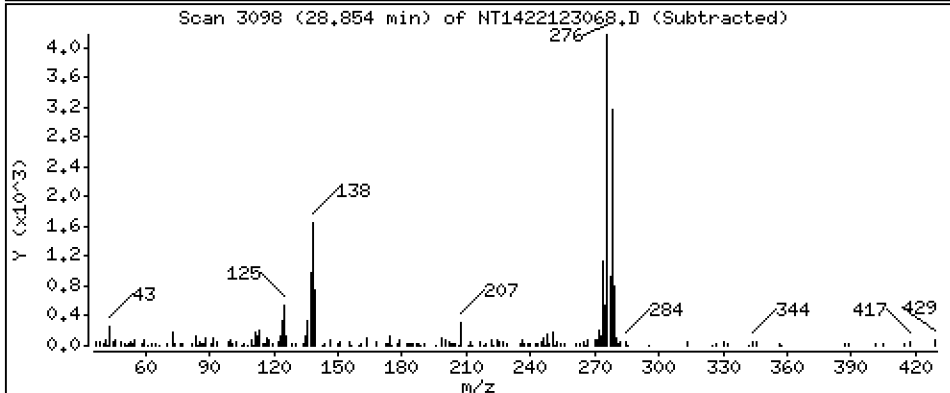
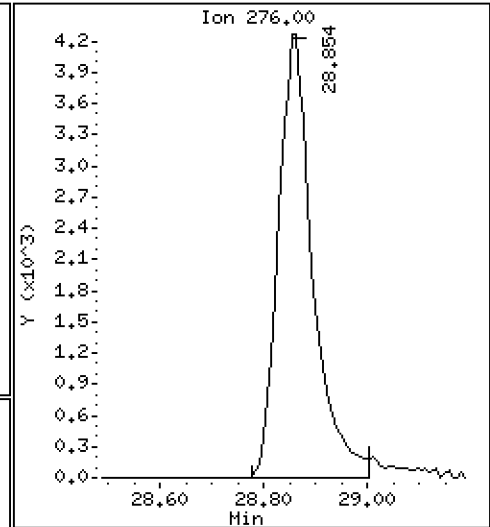
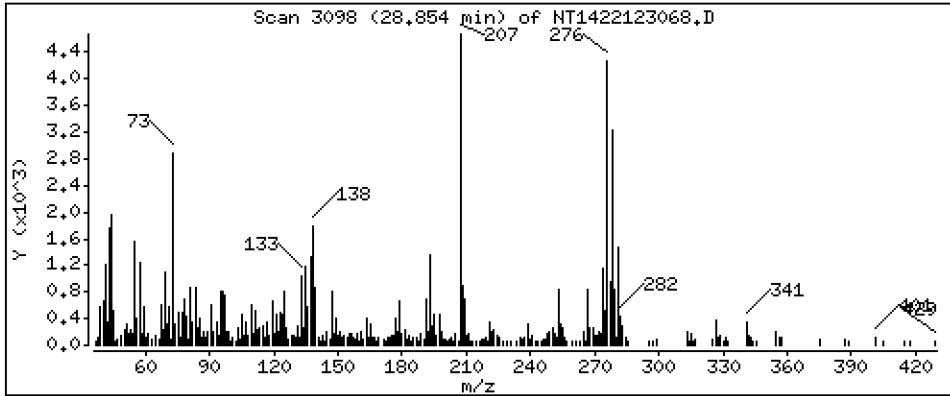
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2876 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

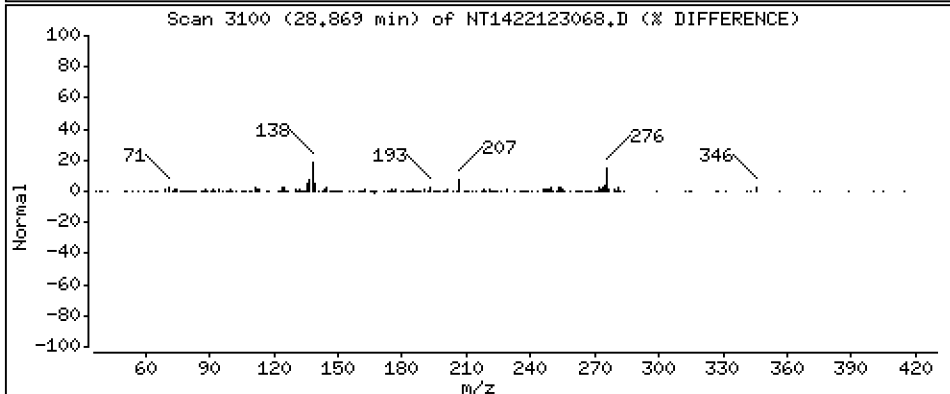
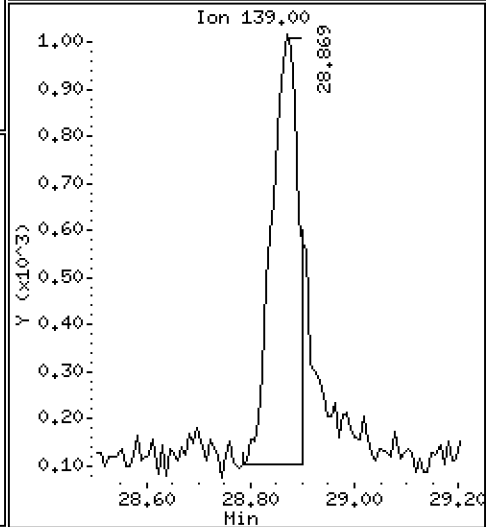
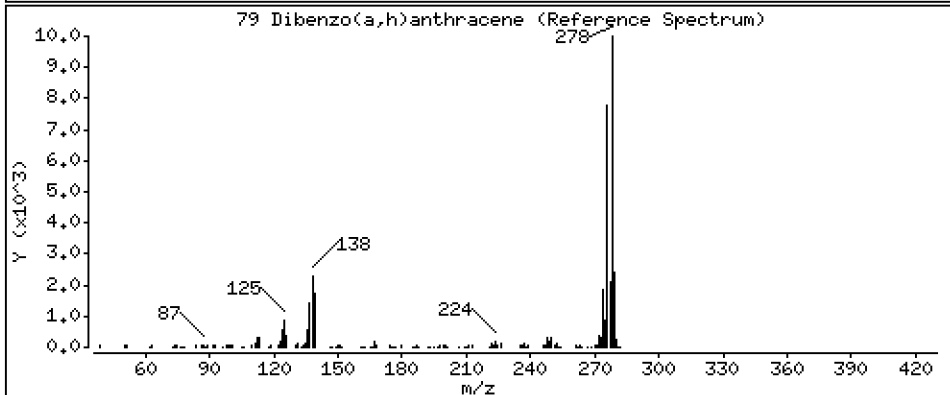
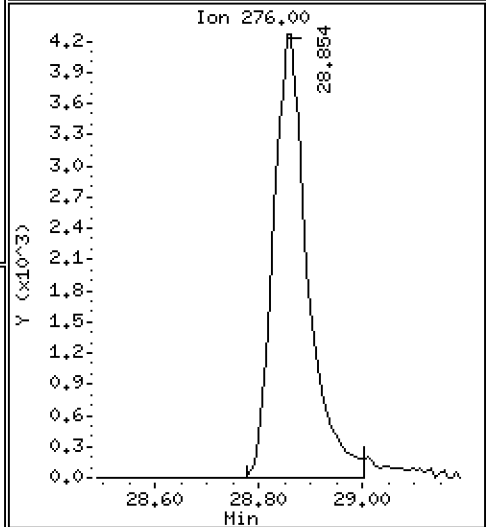
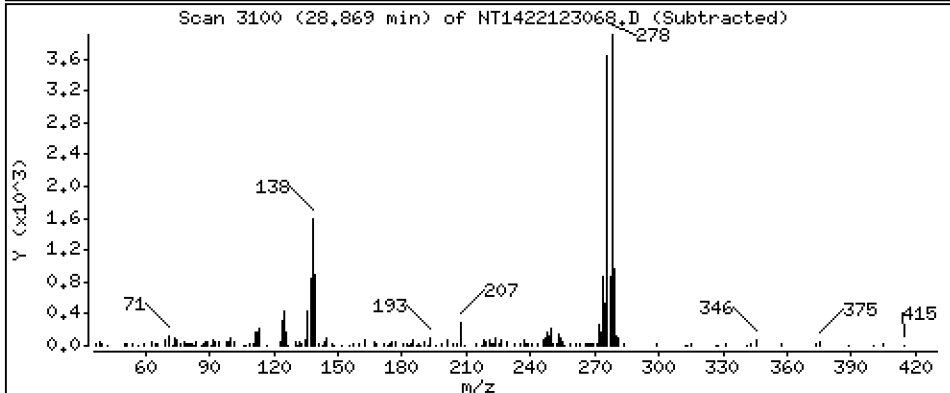
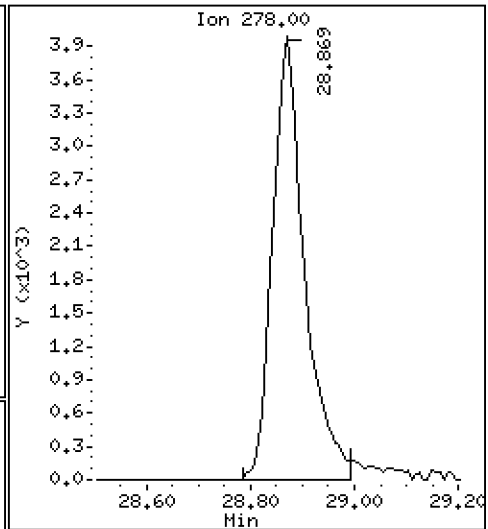
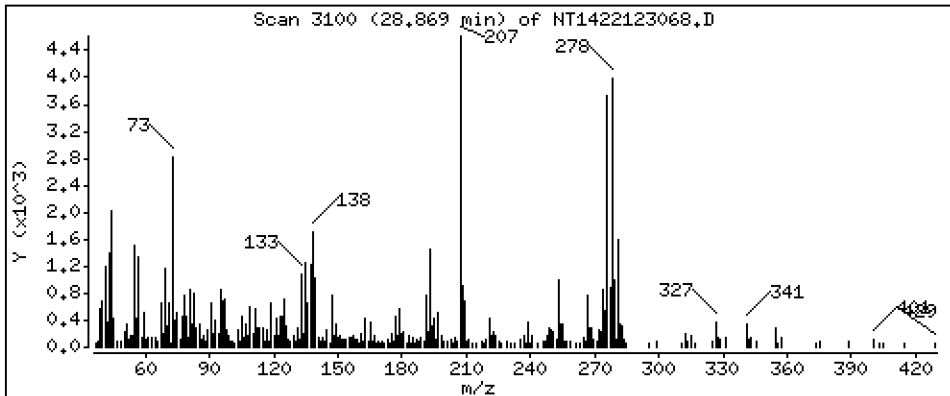
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2950 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

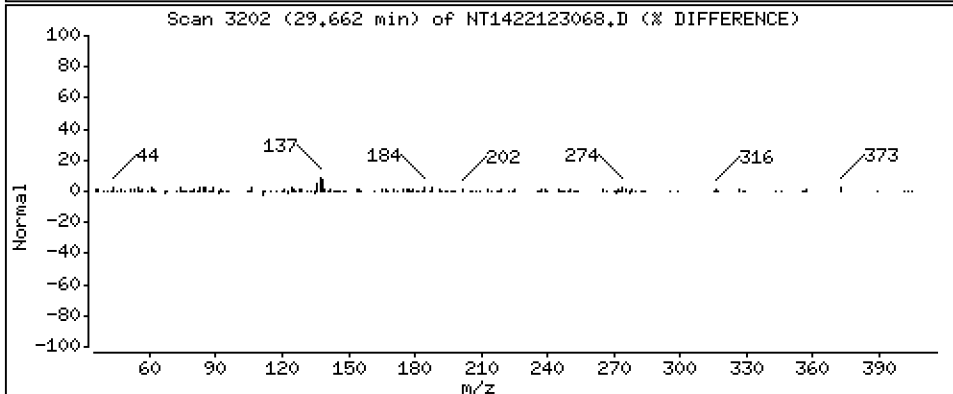
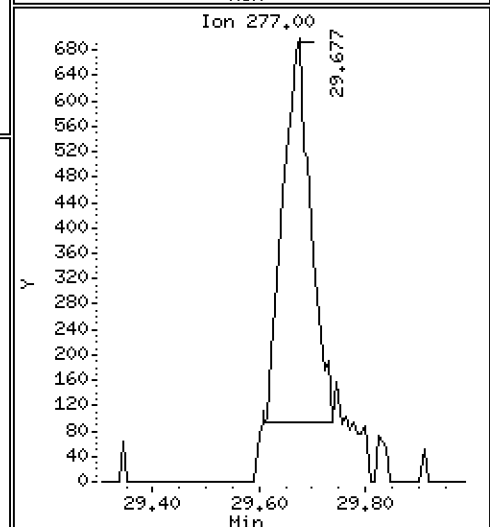
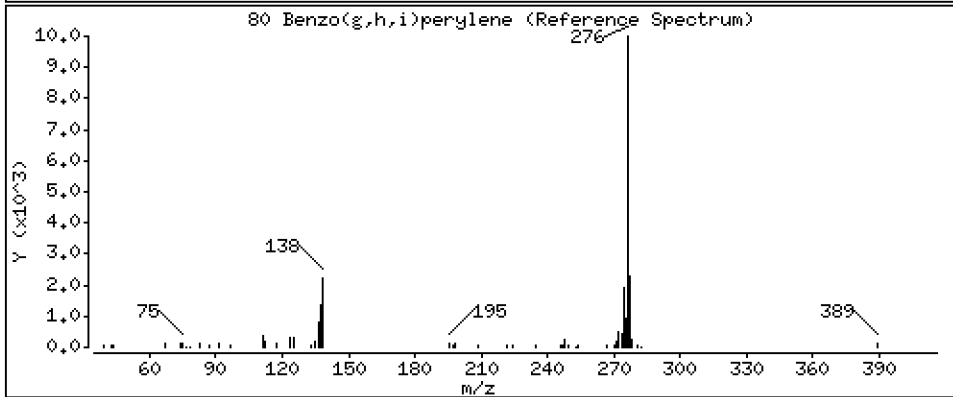
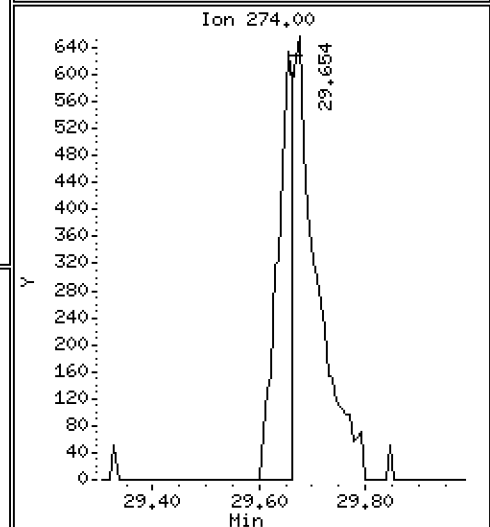
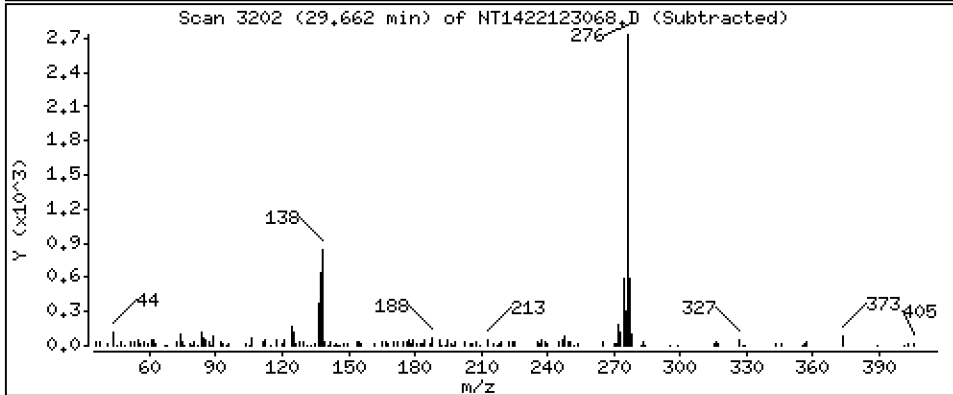
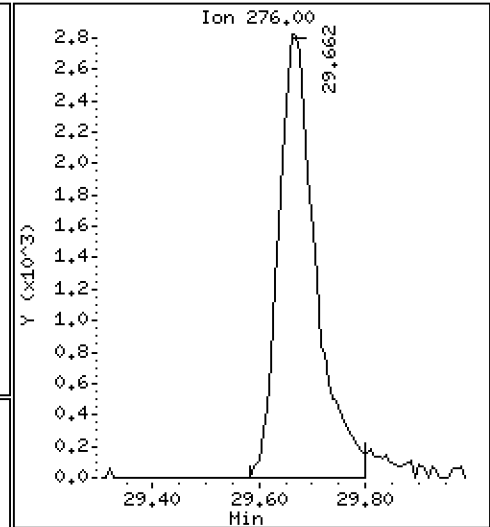
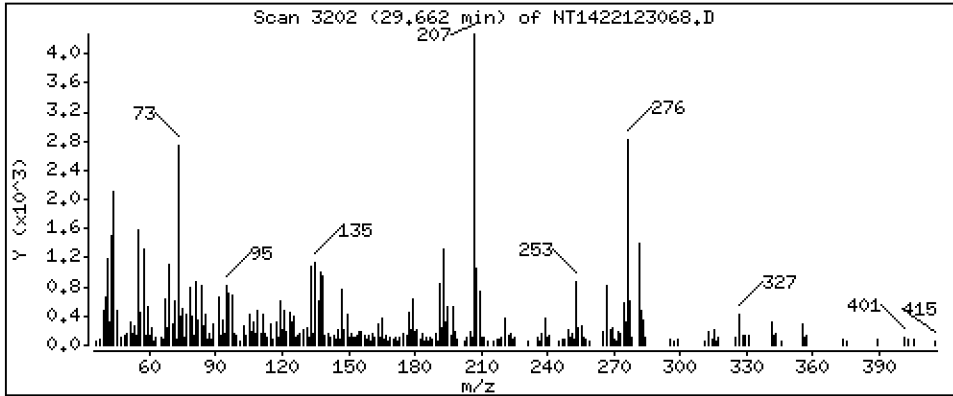
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2408 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

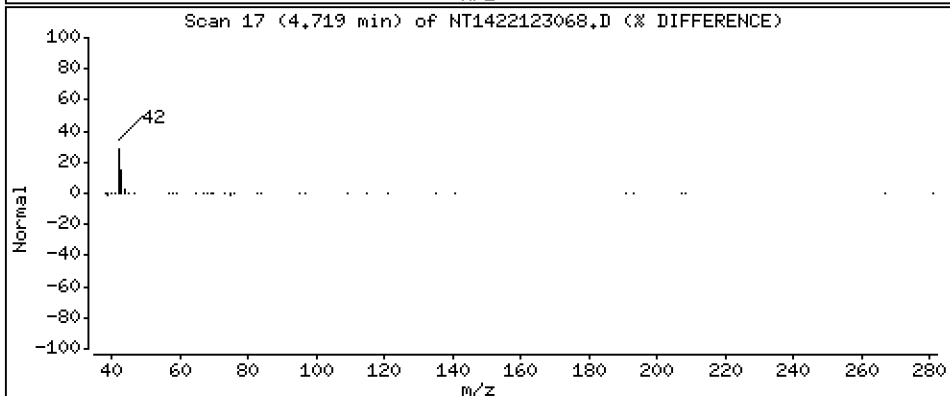
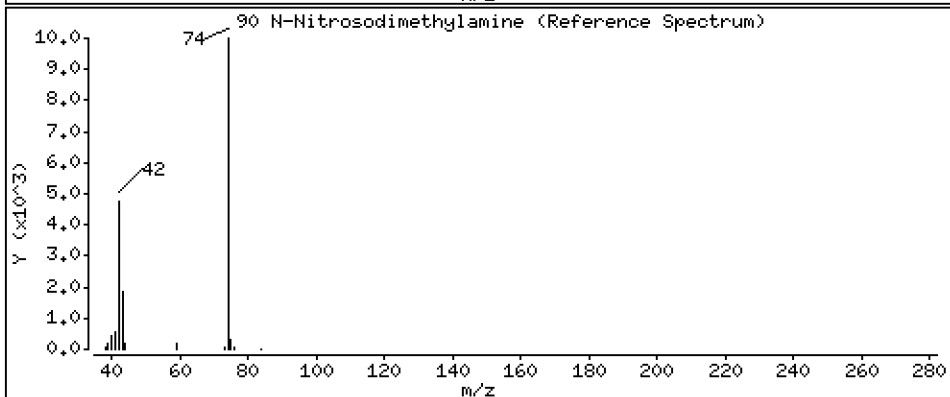
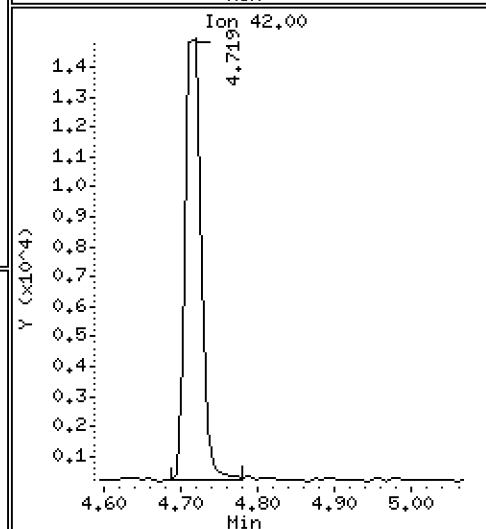
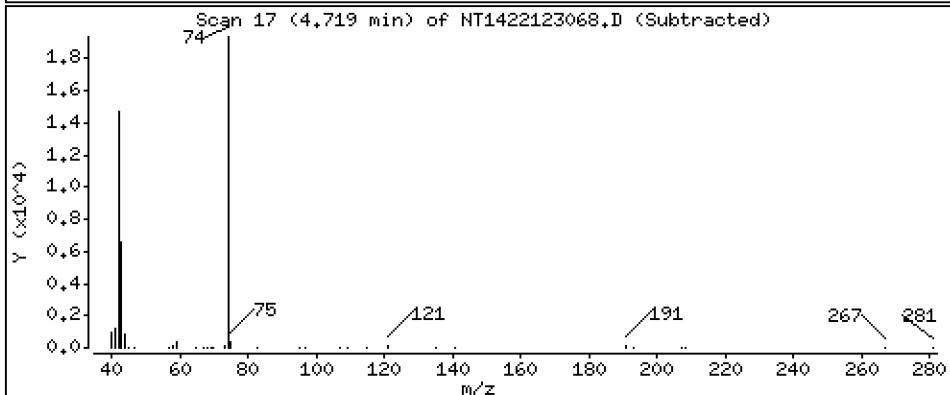
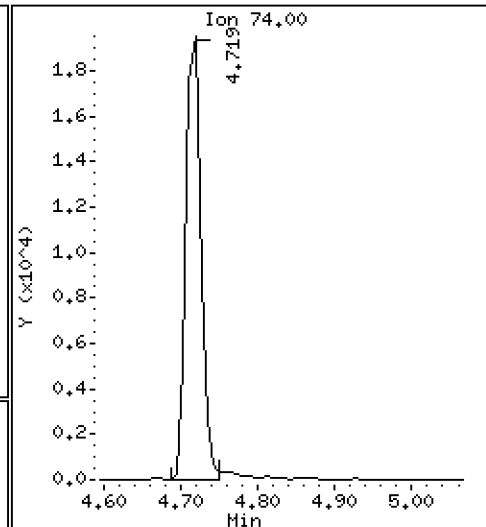
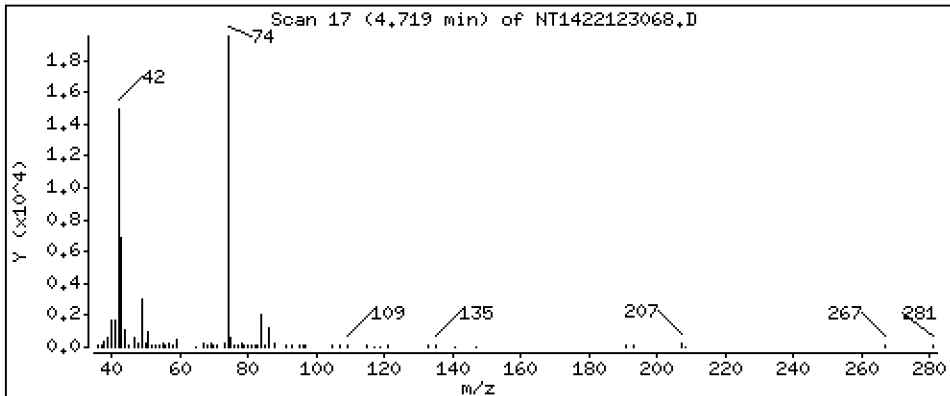
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,011 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

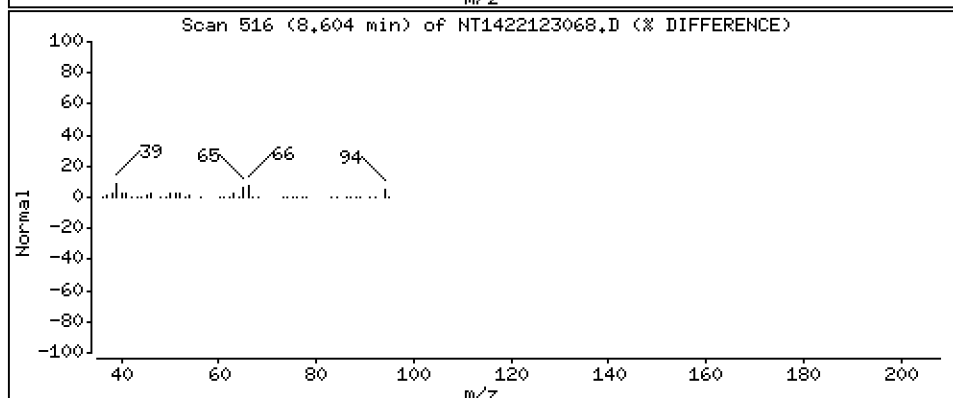
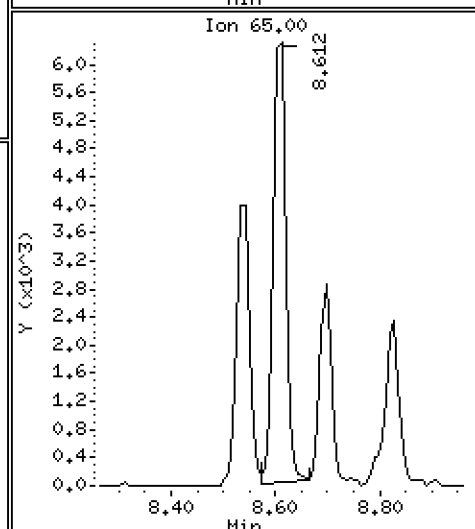
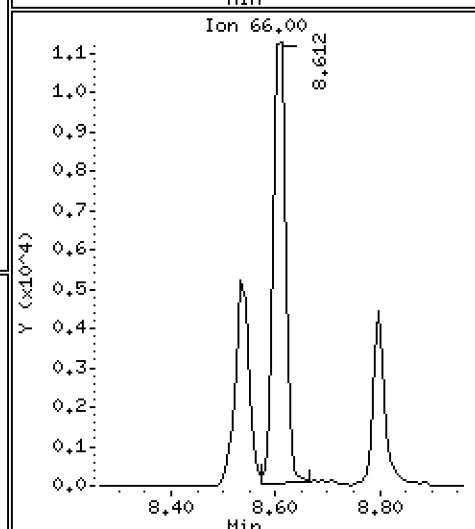
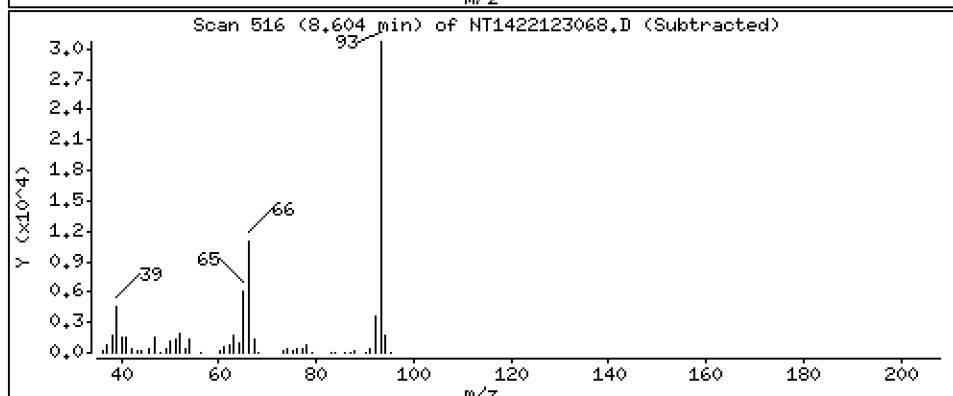
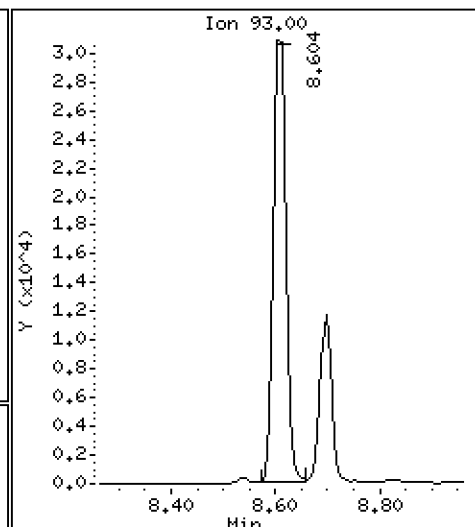
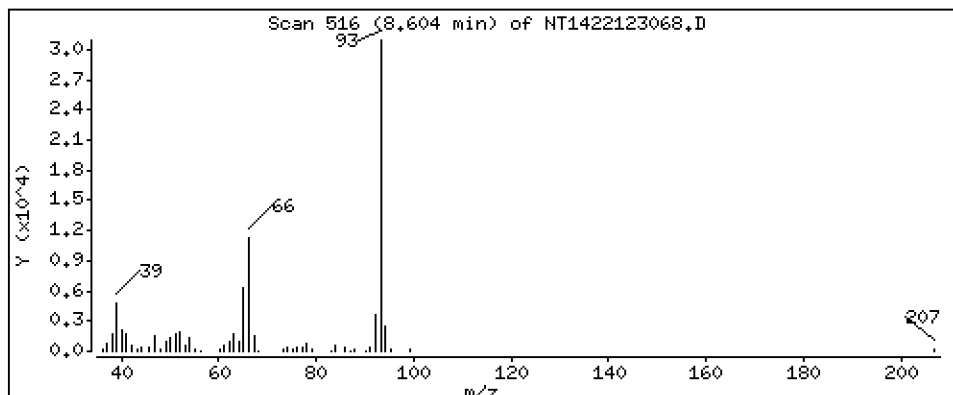
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9709 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

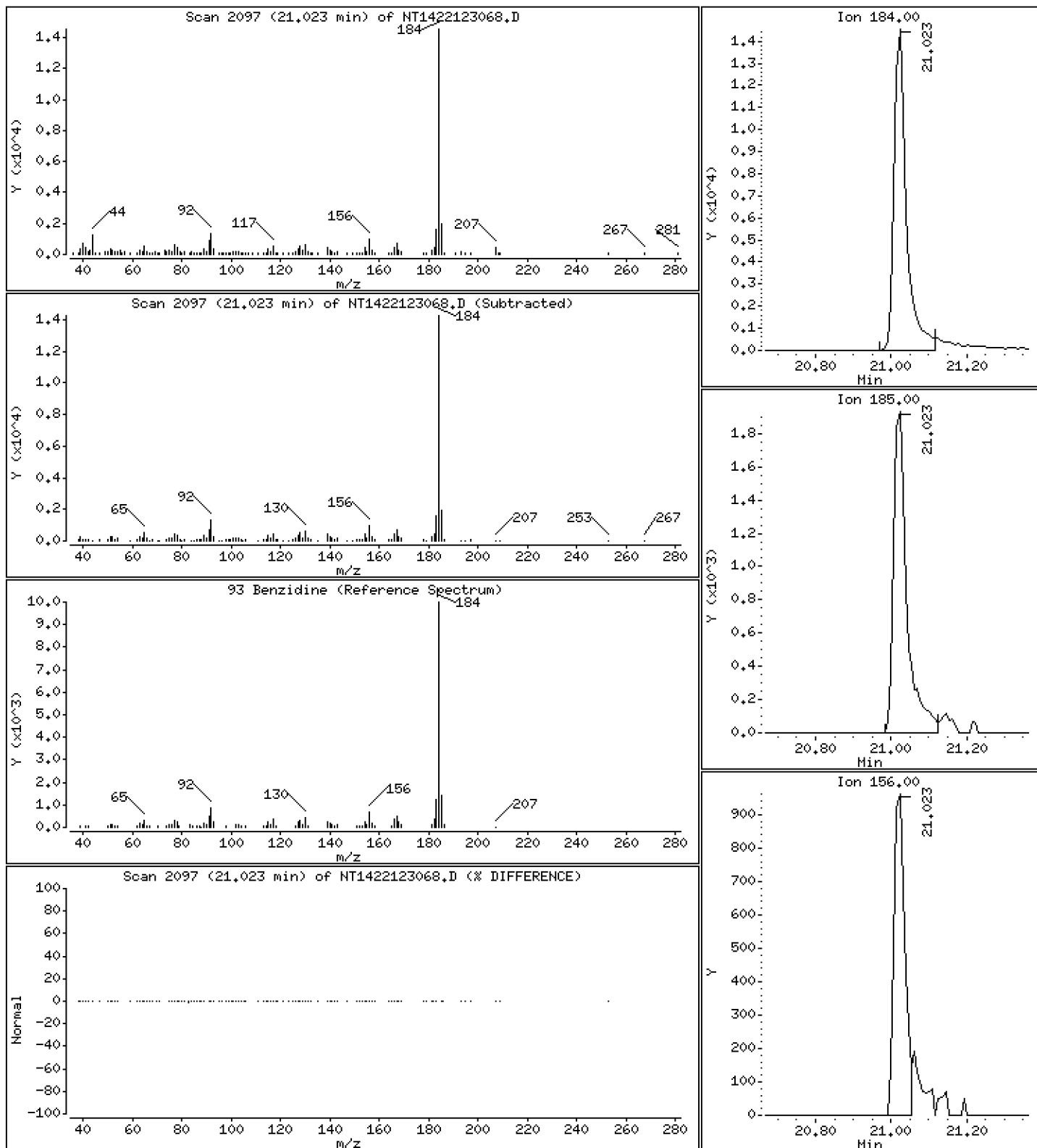
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,8853 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

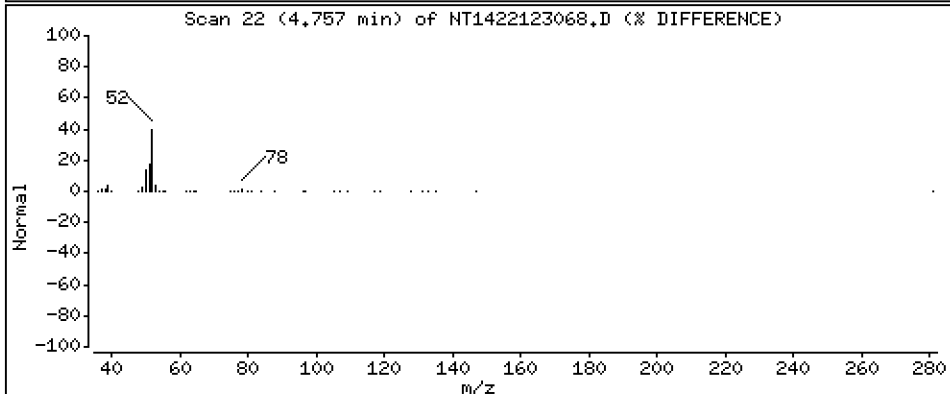
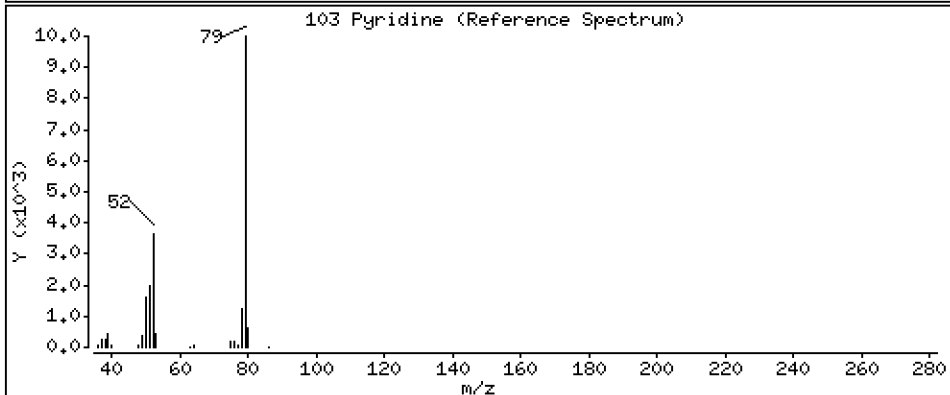
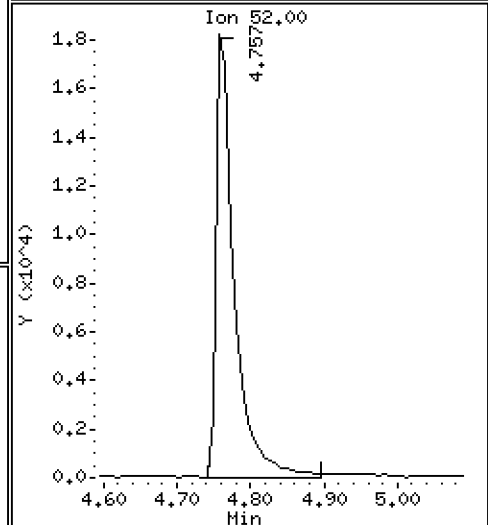
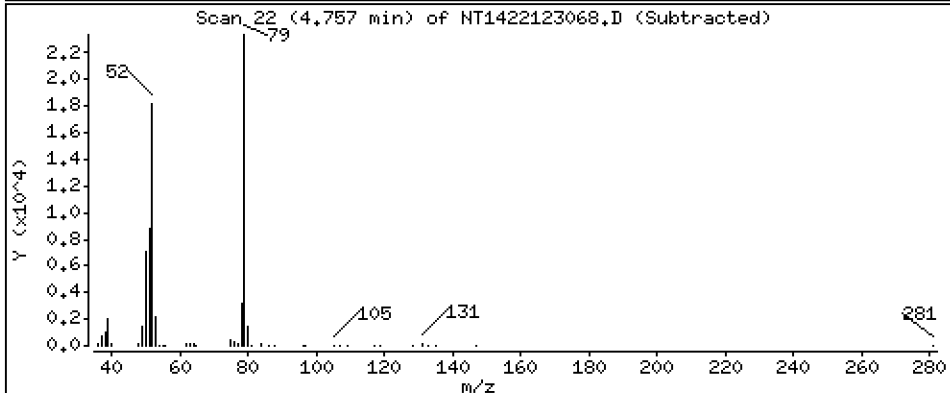
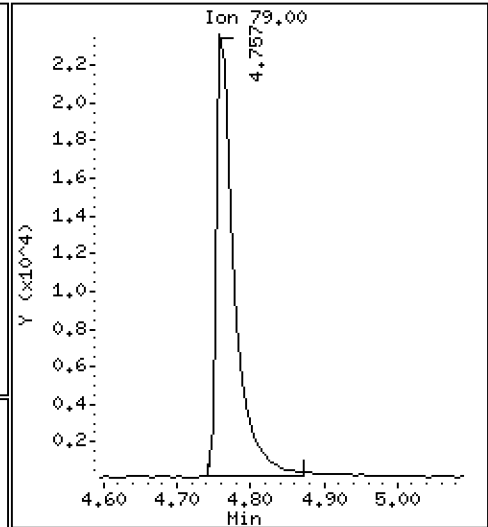
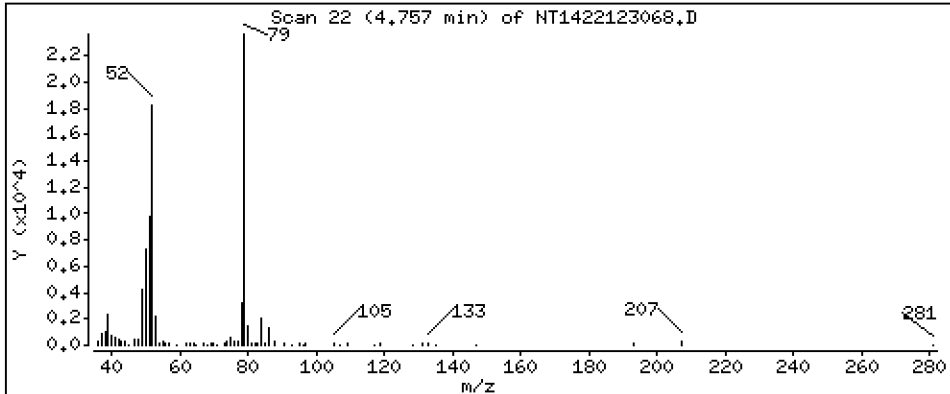
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5018 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

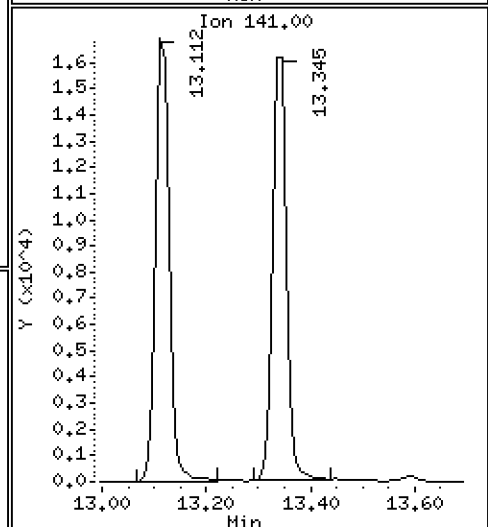
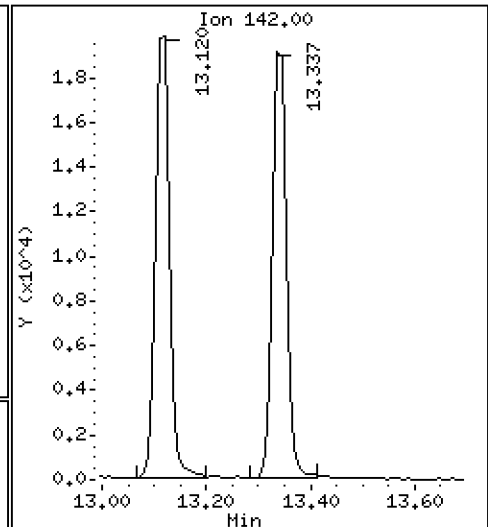
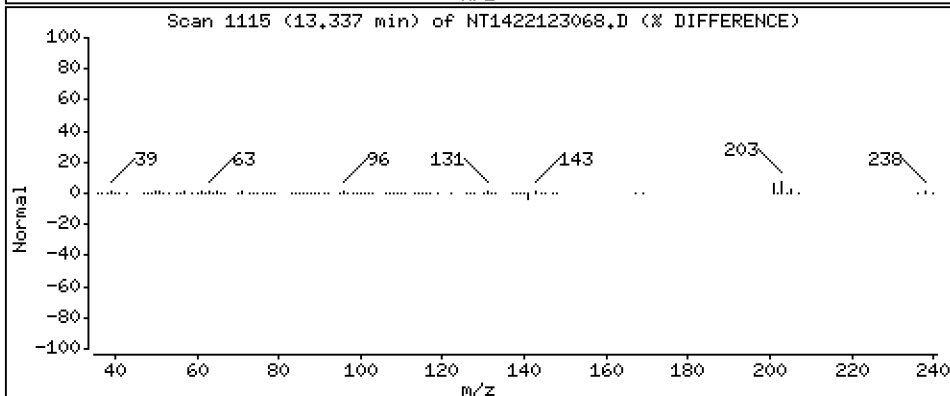
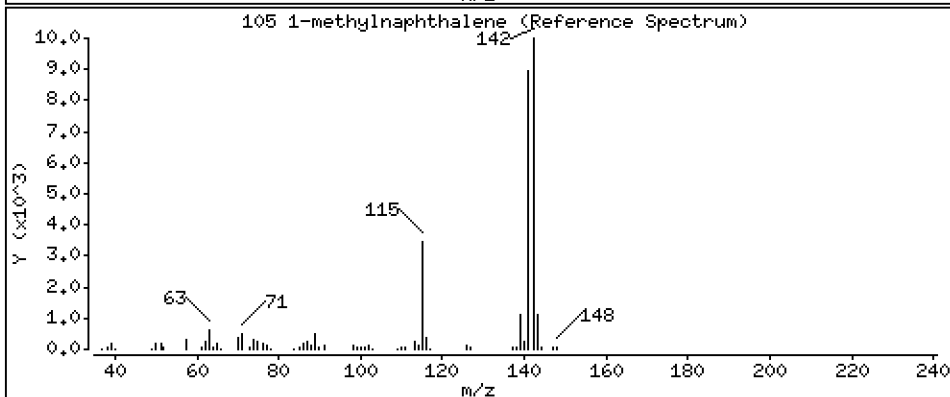
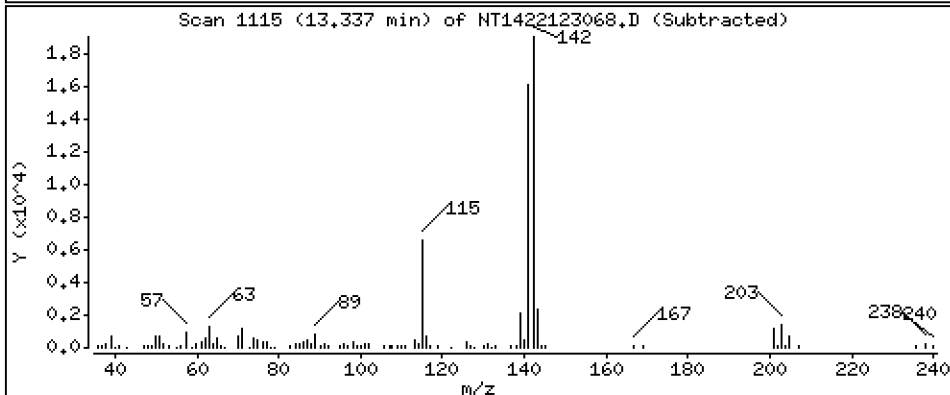
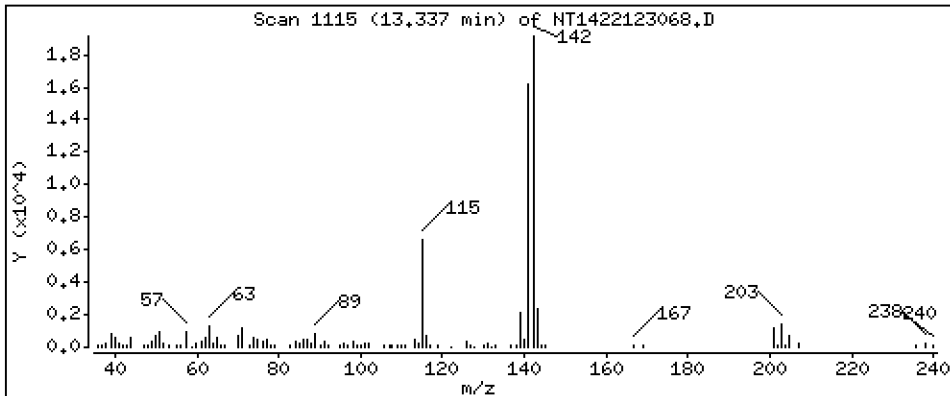
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4742 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

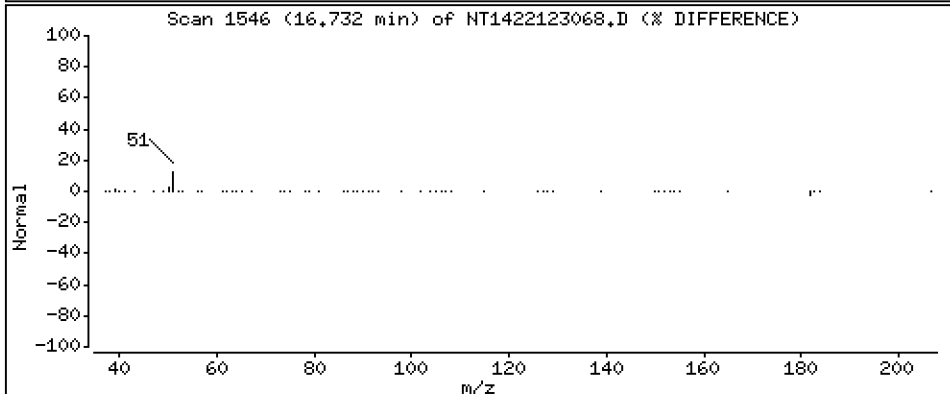
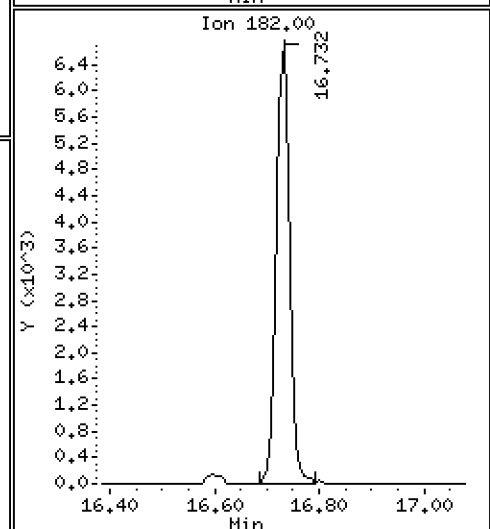
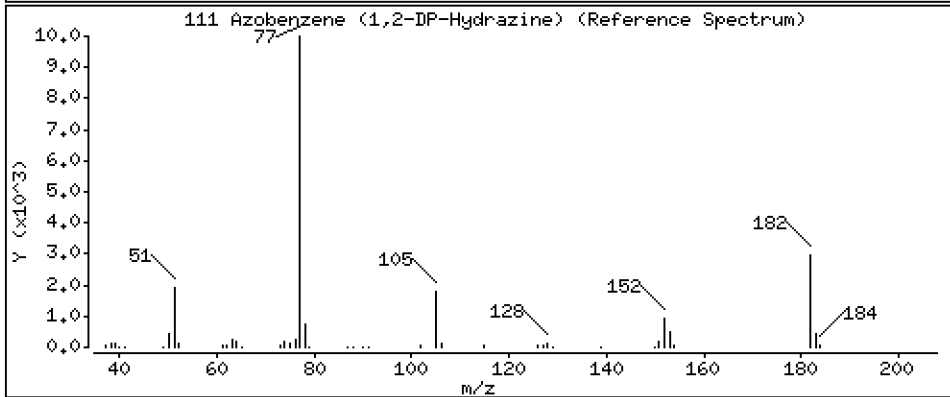
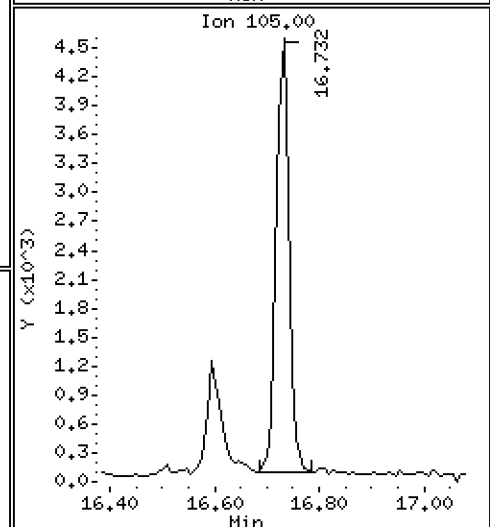
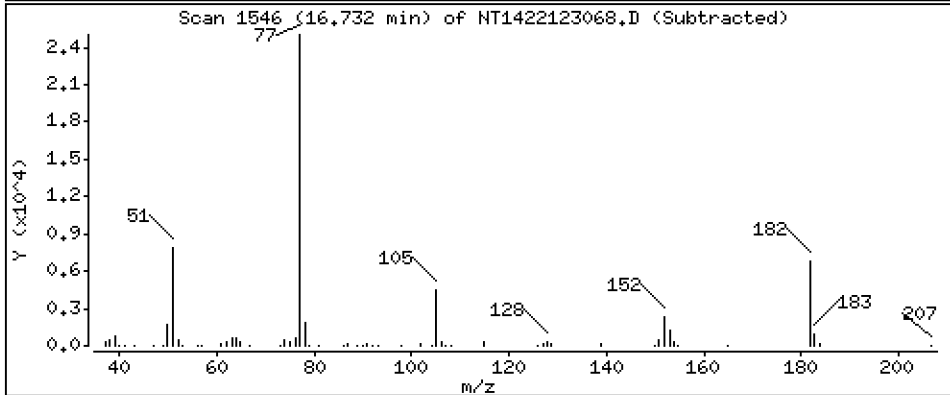
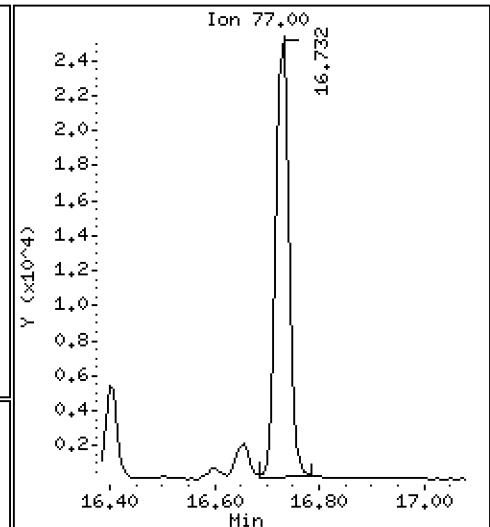
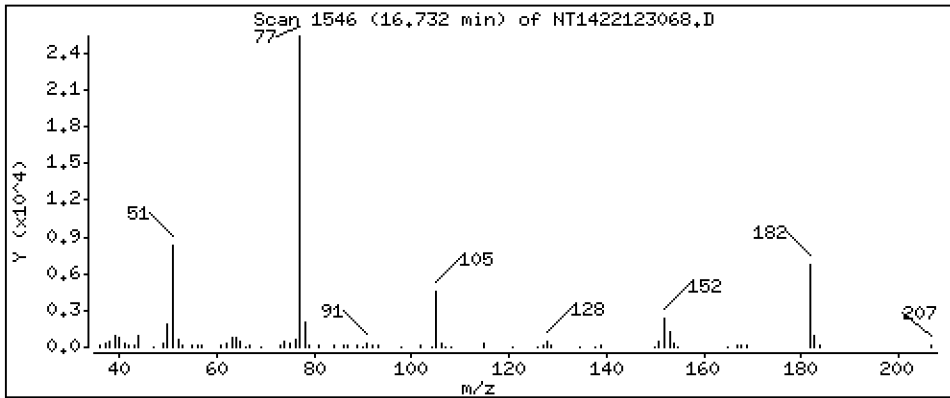
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5334 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

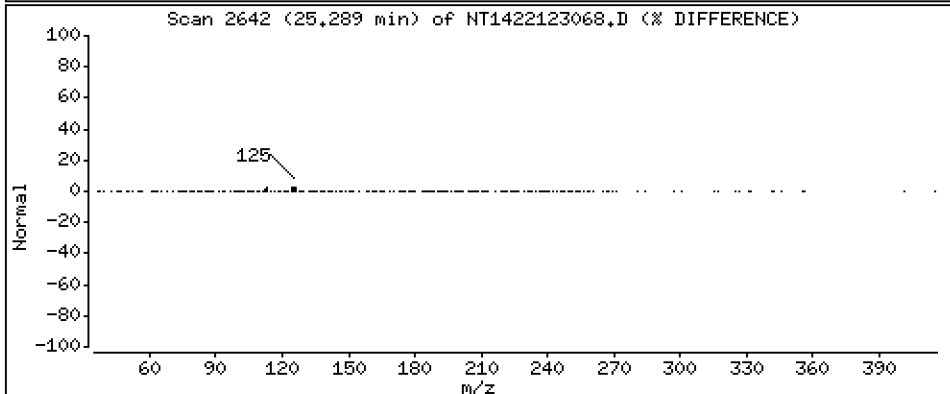
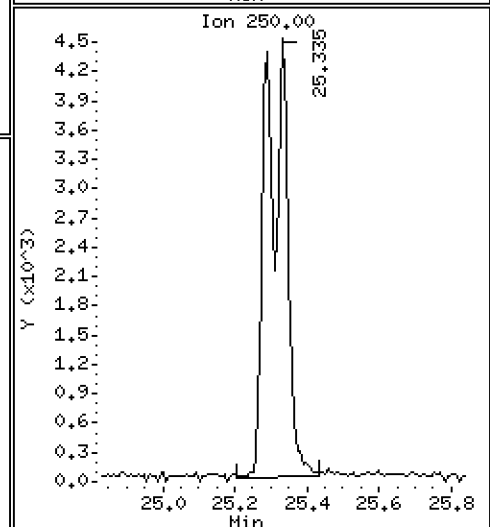
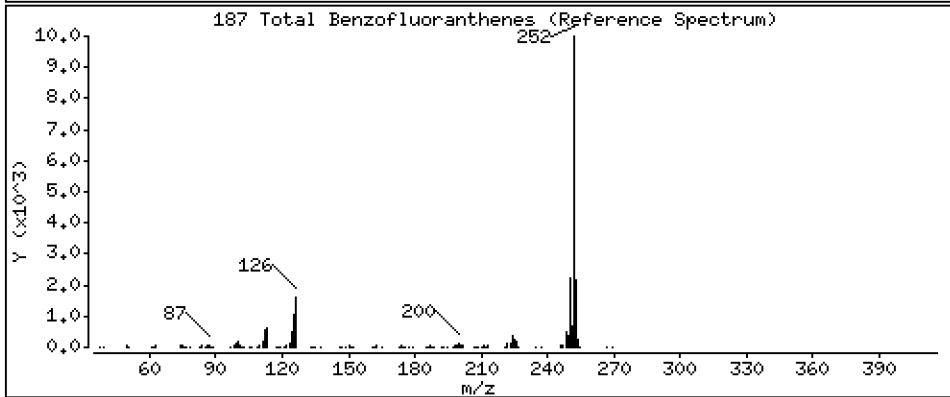
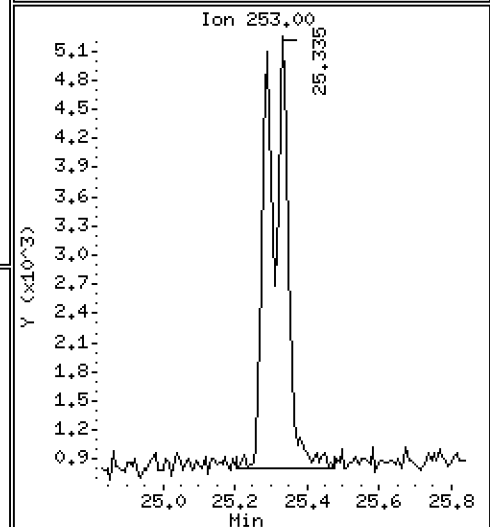
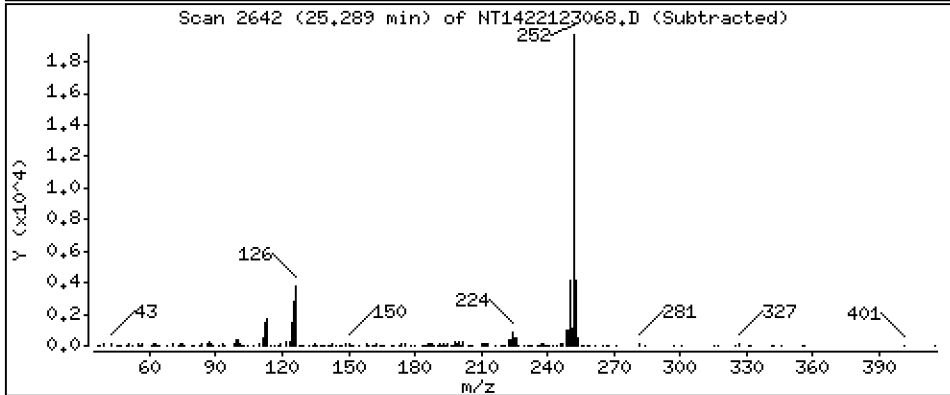
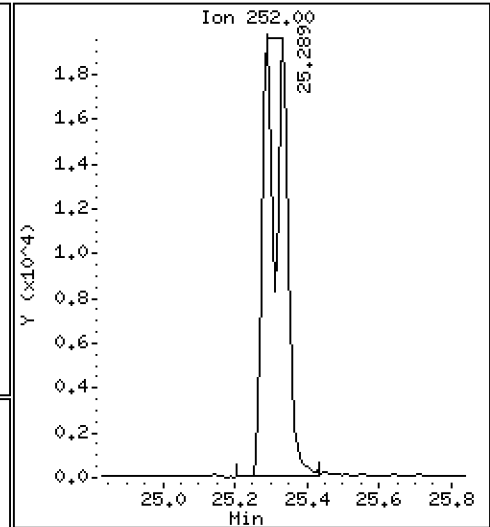
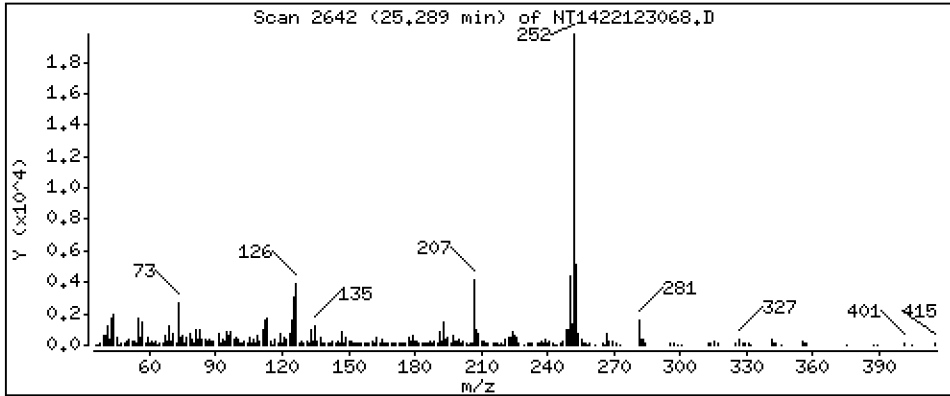
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,127 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

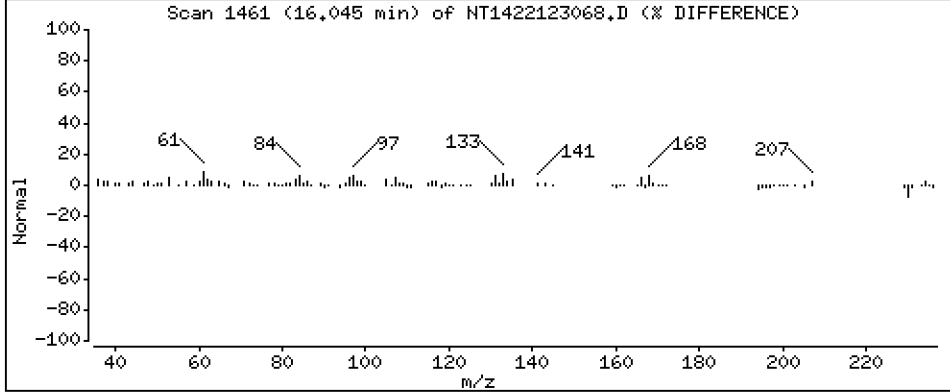
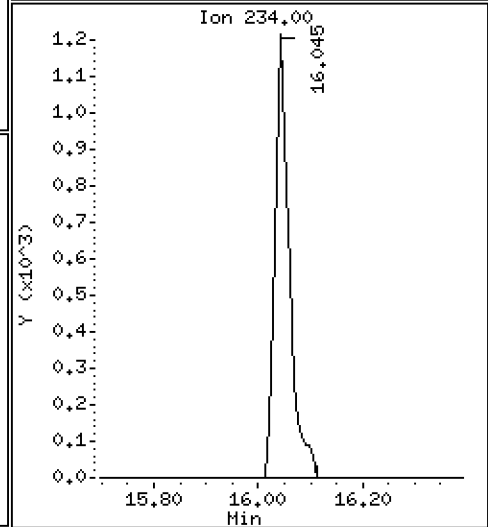
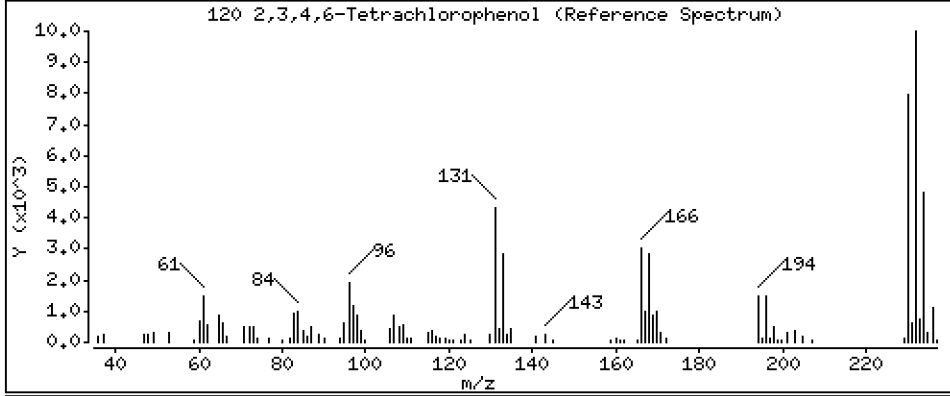
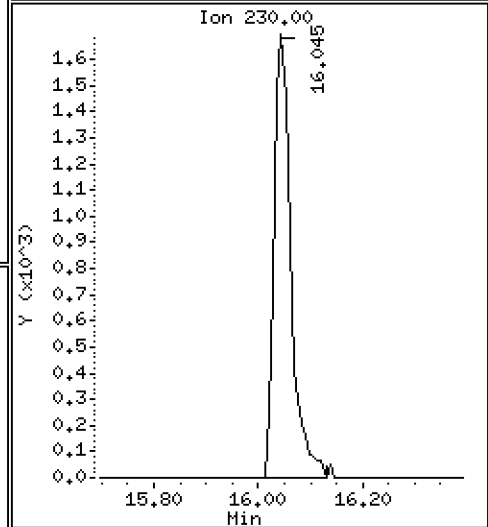
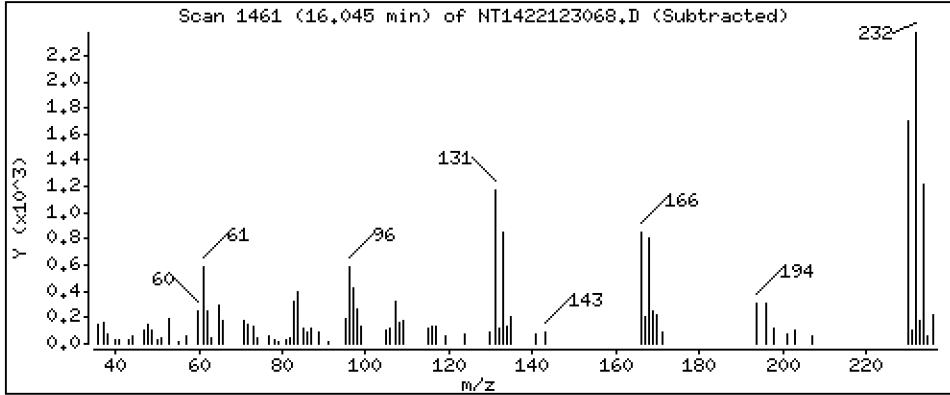
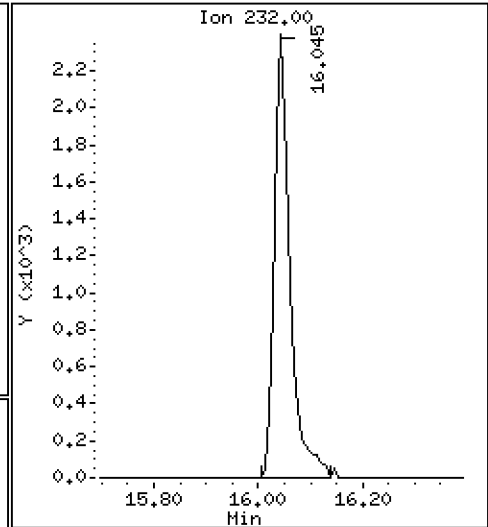
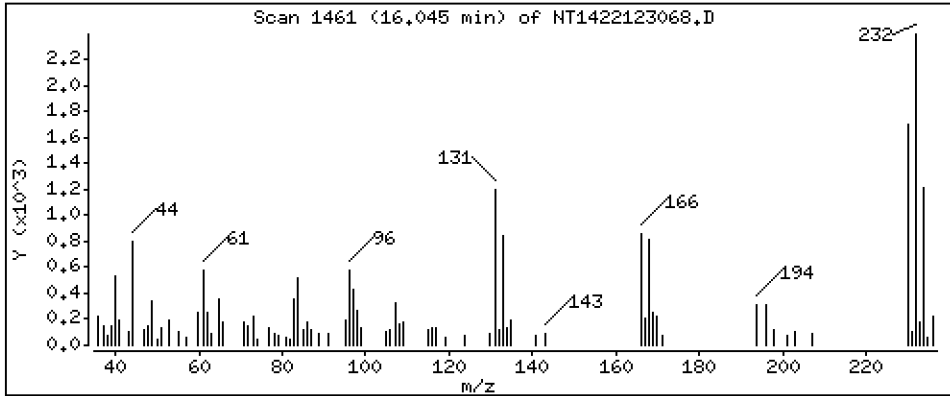
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0.3210 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
 Lab Smp Id: SKL0355-LCV4
 Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-LCV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.919	(0.755)	26679	0.73231	0.7323
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	29740	0.66056	0.6606
3 Phenol	94		8.542	8.542	(0.932)	24851	0.48577	0.4858
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	26376	0.69756	0.6976
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	16971	0.48157	0.4816
6 2-Chlorophenol	128		8.828	8.827	(0.964)	21442	0.51635	0.5163
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	21932	0.49807	0.4981
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	113715	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	21144	0.50685	0.5068
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	12409	0.48016	0.4802
12 1,2-Dichlorobenzene	146		9.548	9.556	(1.042)	20298	0.49614	0.4961
11 Benzyl alcohol	108		9.440	9.440	(1.030)	8811	0.38688	0.3869
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	5608	0.47279	0.4728 (M)
13 2-Methylphenol	108		9.665	9.665	(1.055)	18106	0.48706	0.4871
17 Hexachloroethane	117		10.154	10.154	(1.108)	6330	0.41257	0.4126
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	11492	0.50748	0.5075
15 4-Methylphenol	108		9.937	9.936	(1.085)	18249	0.46535	0.4654
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.880)	16843	0.48307	0.4831
19 Nitrobenzene	77		10.293	10.301	(0.882)	16249	0.46925	0.4693
20 Isophorone	82		10.751	10.751	(0.922)	19966	0.45240	0.4524
21 2-Nitrophenol	139		10.938	10.937	(0.938)	10030	0.47315	0.4732
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	35304	0.97686	0.9769
23 Bis(2-Chloroethoxy)methane	93		11.178	11.186	(0.958)	16990	0.49487	0.4949
24 Benzoic acid	105		11.093	11.209	(0.951)	9855	0.44771	0.4477
25 2,4-Dichlorophenol	162		11.395	11.395	(0.977)	29244	0.95995	0.9599
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	16108	0.48901	0.4890
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	412900	4.00000	
28 Naphthalene	128		11.712	11.712	(1.004)	49324	0.48541	0.4854
29 4-Chloroaniline	127		11.835	11.835	(1.015)	37233	0.88851	0.8885
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	7808	0.47774	0.4777
31 4-Chloro-3-methylphenol	107		12.818	12.810	(1.099)	27298	0.94955	0.9495
32 2-Methylnaphthalene	142		13.120	13.120	(1.125)	34703	0.46559	0.4656
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.888)	2182	0.13732	0.1373

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
35 2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
§ 36 2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
37 2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
38 2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
39 Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
40 Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
* 42 Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
43 3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
44 Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
45 2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232 (M)
46 Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
47 4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719 (M)
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
50 Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
49 Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
51 4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
52 4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
53 4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
54 N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
§ 55 2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
57 Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
58 Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
* 59 Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
60 Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
61 Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
62 Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
63 Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
64 Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
65 Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
§ 66 Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
67 Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
70 3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
71 Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
* 134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
74 Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
76 Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
* 77 Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
79 Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
80 Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
91 Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
93 Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
103 Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
105 1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123068.D Calibration Time: 23:30
 Lab Smp Id: SKL0355-LCV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 00:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

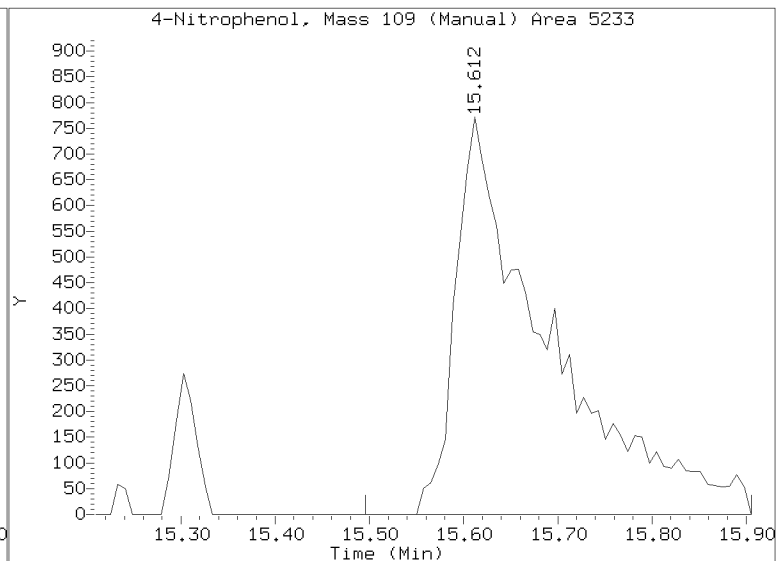
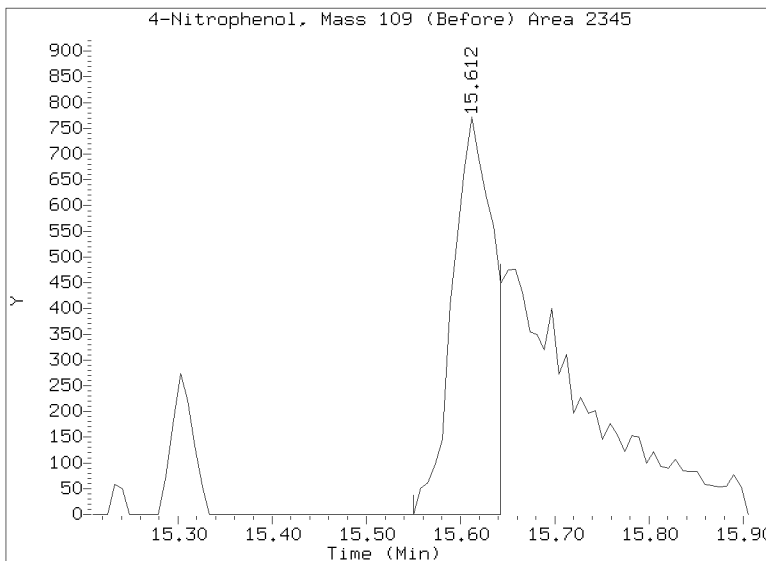
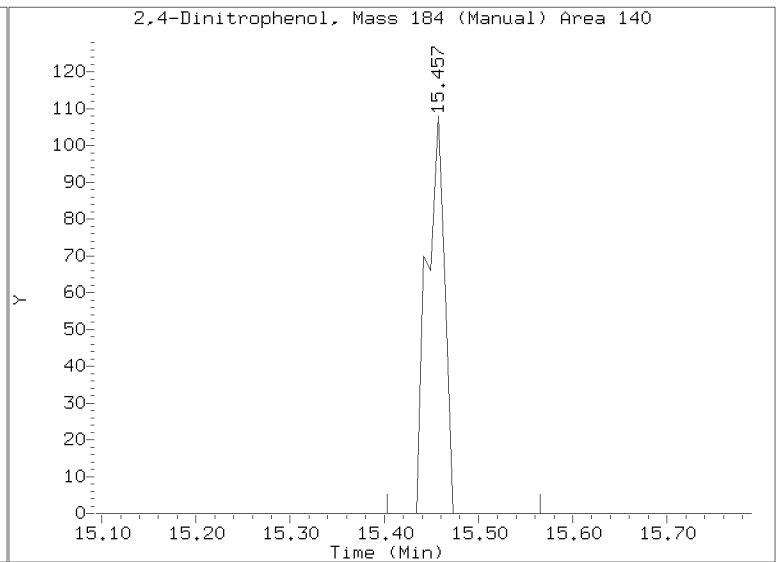
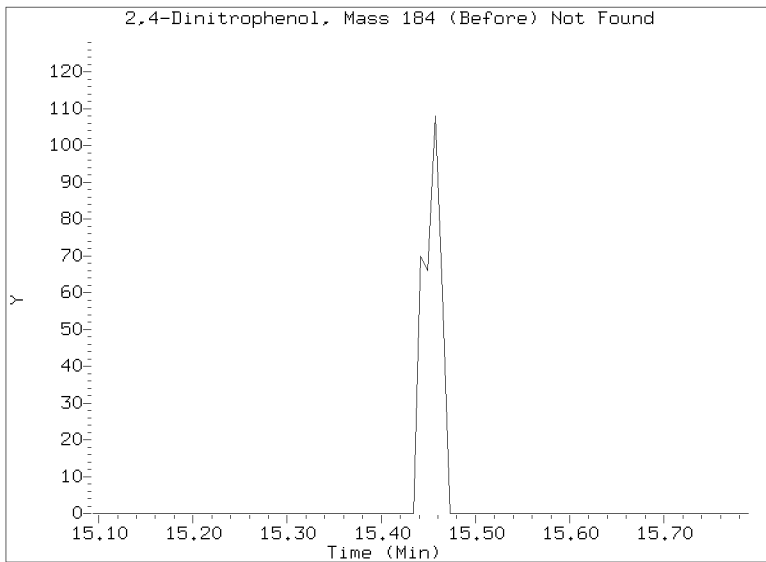
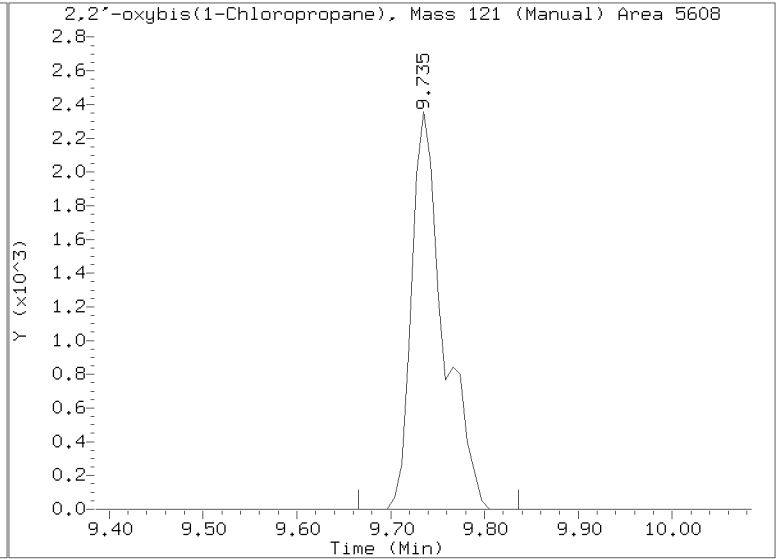
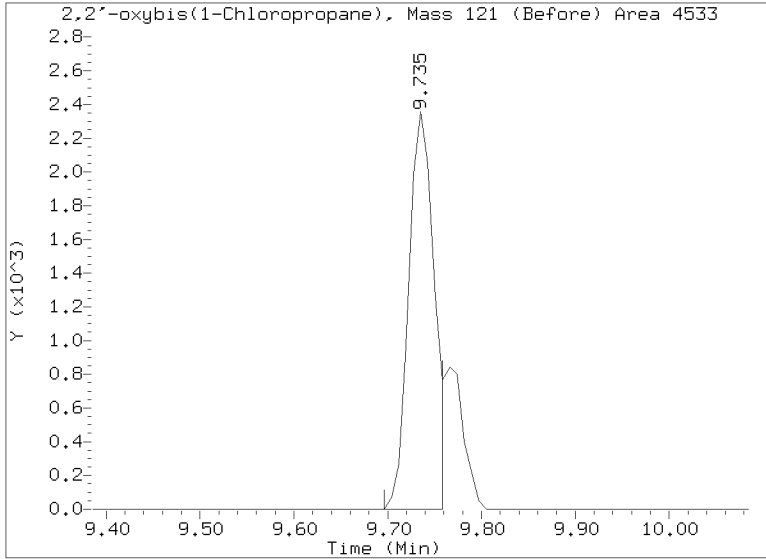
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123011.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV1

Injection Time: 13:31

Sequence Name: SICV1

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.4	1.7995200	1.5659790		-13.0	+/-20
bis(2-chloroethyl) ether	A	5.0000	5.1	1.2396270	1.2632950		1.9	+/-20
2-Chlorophenol	A	5.0000	4.5	1.4607190	1.3032960		-10.8	+/-20
1,3-Dichlorobenzene	A	5.0000	4.8	1.5489360	1.4727770		-4.9	+/-20
1,4-Dichlorobenzene	A	5.0000	4.8	1.4674070	1.4007540		-4.5	+/-20
1,2-Dichlorobenzene	A	5.0000	4.8	1.4391100	1.3720310		-4.7	+/-20
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7978689		-0.4	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.2	0.4172325	0.4333324		3.9	+/-20
2-Methylphenol	A	5.0000	3.9	1.3076140	1.0270		-21.5	+/-20 *
Hexachloroethane	A	5.0000	4.9	0.5396966	0.5320521		-1.4	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8170159		2.6	+/-20
4-Methylphenol	A	5.0000	4.1	1.3794240	1.1372560		-17.6	+/-20
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3273825		-2.4	+/-20
Isophorone	A	5.0000	6.9	0.4275424	0.5939464		38.9	+/-20 *
2-Nitrophenol	A	5.0000	4.6	0.2064997	0.1942317		-8.9	+/-20
2,4-Dimethylphenol	A	5.0000	3.7	0.3501131	0.2564747		-26.7	+/-20 *
Bis(2-Chloroethoxy)methane	A	5.0000	5.7	0.3325989	0.3771945		13.4	+/-20
2,4-Dichlorophenol	A	5.0000	4.4	0.2951237	0.2590228		-12.2	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.6	0.3191088	0.2919389		-8.5	+/-20
Naphthalene	A	5.0000	4.8	0.9843833	0.9472936		-3.8	+/-20
Benzoic acid	A	10.0000	6.4	0.1508906	0.1379528		-36.2	+/-20 *
4-Chloroaniline	A	5.0000	3.8	0.4059568	0.3124698		-23.0	+/-20 *
Hexachlorobutadiene	A	5.0000	4.8	0.1583286	0.1527172		-3.5	+/-20
4-Chloro-3-Methylphenol	A	5.0000	4.5	0.2785027	0.2518784		-9.6	+/-20
2-Methylnaphthalene	A	5.0000	4.6	0.7220739	0.6665809		-7.7	+/-20
Hexachlorocyclopentadiene	A	5.0000	5.1	0.3023695	0.3072422		1.6	+/-20
2,4,6-Trichlorophenol	A	5.0000	4.4	0.3338641	0.2942534		-11.9	+/-20
2,4,5-Trichlorophenol	A	5.0000	4.3	0.3853234	0.3296455		-14.4	+/-20
2-Chloronaphthalene	A	5.0000	4.8	1.1441150	1.0877620		-4.9	+/-20
2-Nitroaniline	A	5.0000	5.0	0.3007956	0.3033642		0.9	+/-20

* Values outside of QC limits



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Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123011.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV1

Injection Time: 13:31

Sequence Name: SICV1

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7443980		-0.007	+/-20
Dimethylphthalate	A	5.0000	5.0	1.1280520	1.1331460		0.5	+/-20
2,6-Dinitrotoluene	A	5.0000	5.1	0.2545771	0.2604186		2.3	+/-20
Acenaphthene	A	5.0000	4.9	1.0820160	1.0637410		-1.7	+/-20
3-Nitroaniline	A	5.0000	5.1	0.3094189	0.3148450		1.8	+/-20
2,4-Dinitrophenol	A	5.0000	2.0	0.1831718	0.0884337		-59.3	+/-20 *
Dibenzofuran	A	5.0000	4.7	1.6225950	1.5282140		-5.8	+/-20
4-Nitrophenol	A	5.0000	4.1	0.1384031	0.1217896		-18.5	+/-20
2,4-Dinitrotoluene	A	5.0000	5.0	0.3492859	0.3461866		-0.9	+/-20
Fluorene	A	5.0000	5.2	1.7261350	1.8056560		4.6	+/-20
4-Chlorophenylphenyl ether	A	5.0000	5.1	0.8450792	0.8609263		1.9	+/-20
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6416350		7.1	+/-20
4-Nitroaniline	A	5.0000	4.7	0.3413732	0.3562087		-5.3	+/-20
4,6-Dinitro-2-methylphenol	A	5.0000	4.1	0.1530278	0.1381873		-18.4	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6554505		-4.5	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.9	0.2599074	0.2567038		-1.2	+/-20
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2596992		-8.9	+/-20
Pentachlorophenol	A	5.0000	3.8	0.1128364	0.0955023		-24.1	+/-20 *
Phenanthrene	A	5.0000	4.8	1.0429190	0.9943498		-4.7	+/-20
Anthracene	A	5.0000	4.4	0.9956202	0.8707411		-12.5	+/-20
Carbazole	A	5.0000	4.6	0.9624945	0.8894363		-7.6	+/-20
Di-n-Butylphthalate	A	5.0000	4.9	1.0394700	1.1158650		-1.4	+/-20
Fluoranthene	A	5.0000	5.1	1.2879410	1.3111240		1.8	+/-20
Pyrene	A	5.0000	5.0	1.3541610	1.3601200		0.4	+/-20
Butylbenzylphthalate	A	5.0000	5.0	0.4650792	0.5203752		0.09	+/-20
Benzo(a)anthracene	A	5.0000	4.9	1.2117210	1.1850410		-2.2	+/-20
3,3'-Dichlorobenzidine	A	10.0000	9.2	0.3709370	0.3415118		-7.9	+/-20
Chrysene	A	5.0000	4.8	1.1445730	1.0903960		-4.7	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.9	0.4442323	0.5241207		18.0	+/-20
Di-n-Octylphthalate	A	5.0000	5.1	0.9601702	0.9761882		1.7	+/-20

* Values outside of QC limits



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Lab File ID: NT1422123011.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV1

Injection Time: 13:31

Sequence Name: SICV1

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.0	1.2153330	1.2119120		-0.3	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0641750		1.8	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.1	1.1879490	1.2184330		2.6	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.1	1.0094890	1.0270870		1.7	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.0	0.9951726	1.0026110		0.7	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6481720		-6.6	+/-20
2-Fluorophenol	A	7.5000	7.32	1.2814900	1.2501890		-2.4	+/-20
Phenol-d5	A	7.5000	7.40	1.5836890	1.5617500		-1.4	+/-20
2-Chlorophenol-d4	A	7.5000	7.32	1.3300510	1.2977780		-2.4	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.77	0.9090592	0.8665877		-4.7	+/-20
Nitrobenzene-d5	A	5.0000	4.86	0.3377760	0.3284412		-2.8	+/-20
2-Fluorobiphenyl	A	5.0000	4.82	1.3448860	1.2955820		-3.7	+/-20
2,4,6-Tribromophenol	A	7.5000	7.24	0.1844845	0.1880717		-3.5	+/-20
p-Terphenyl-d14	A	5.0000	4.82	0.9601842	0.9248755		-3.7	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

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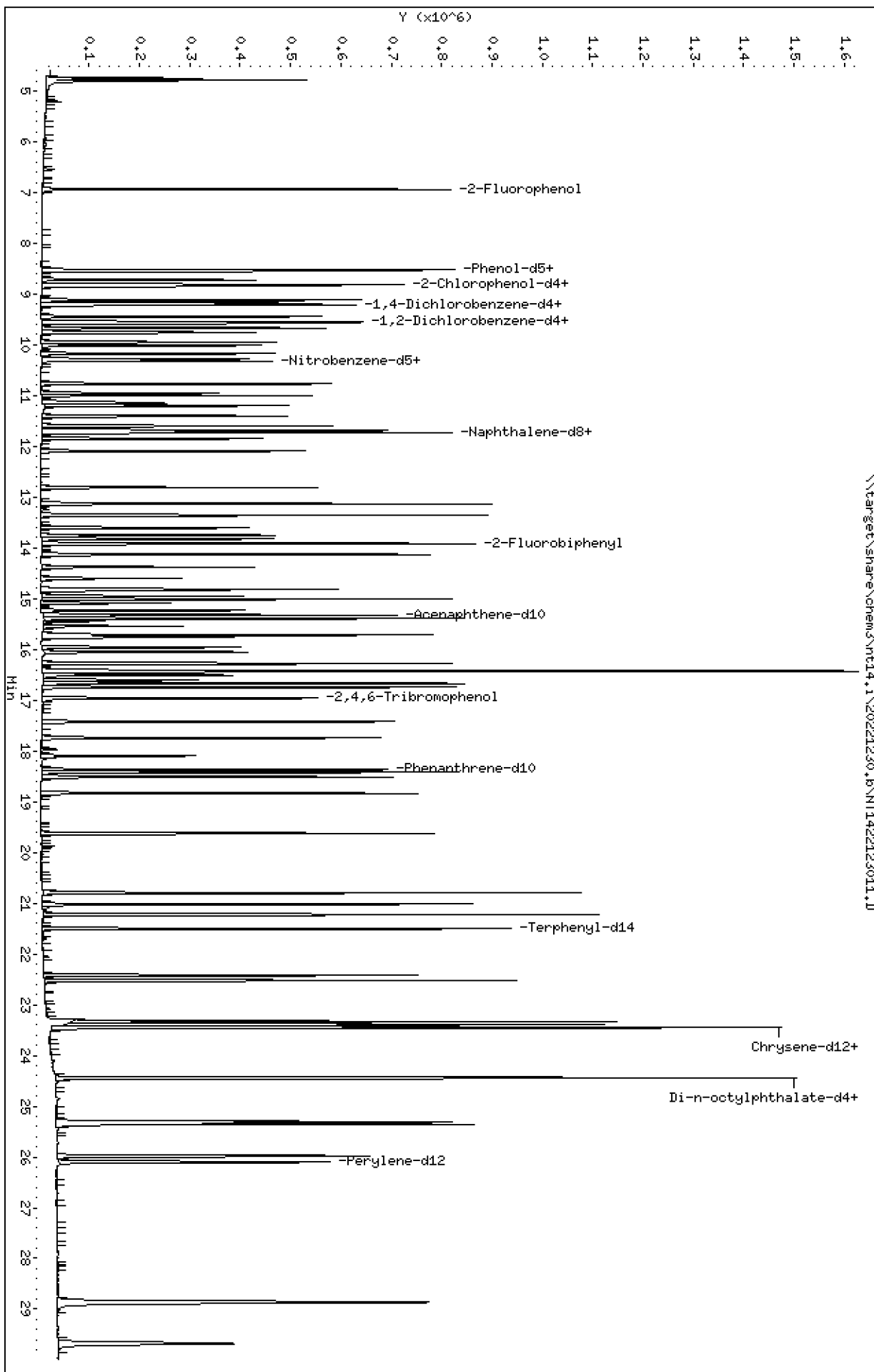
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

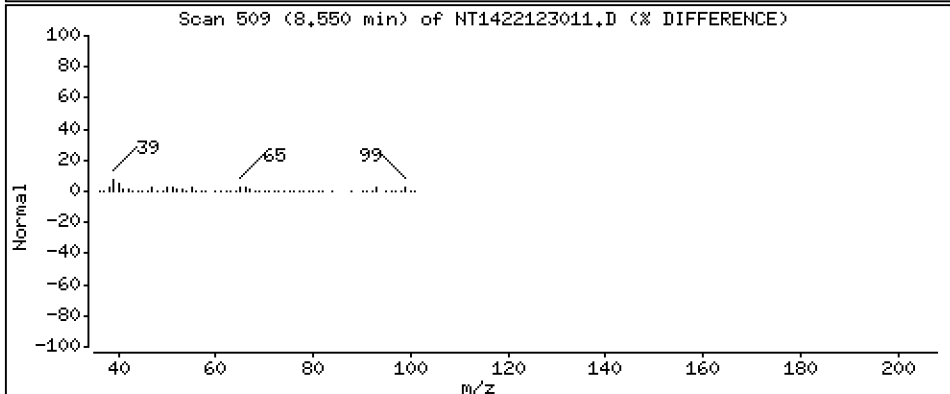
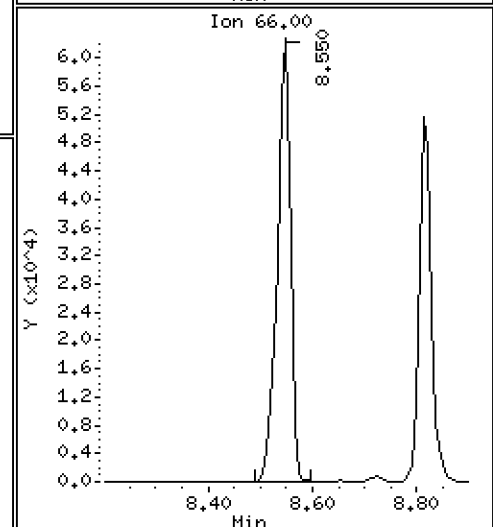
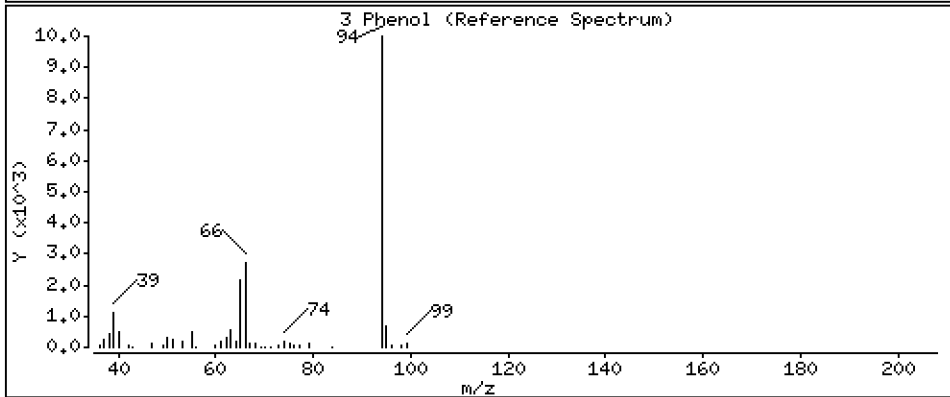
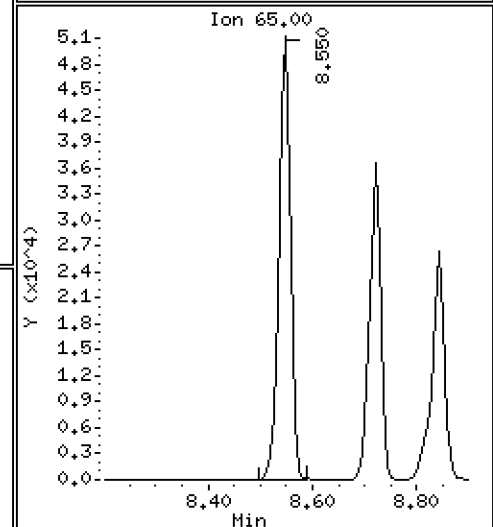
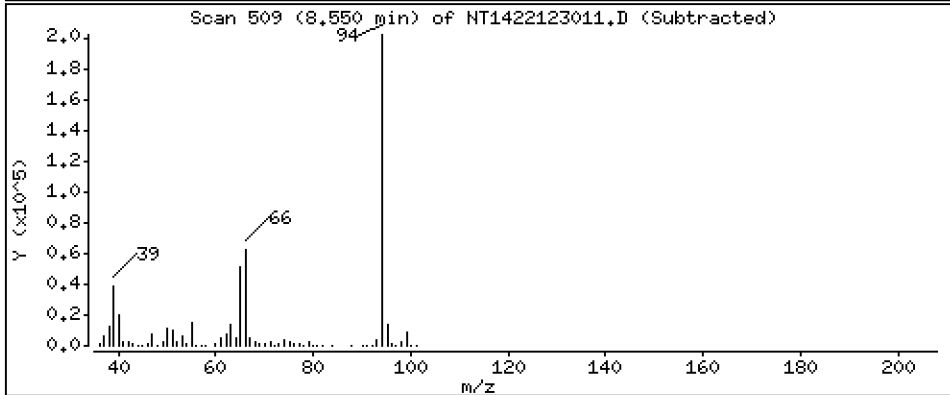
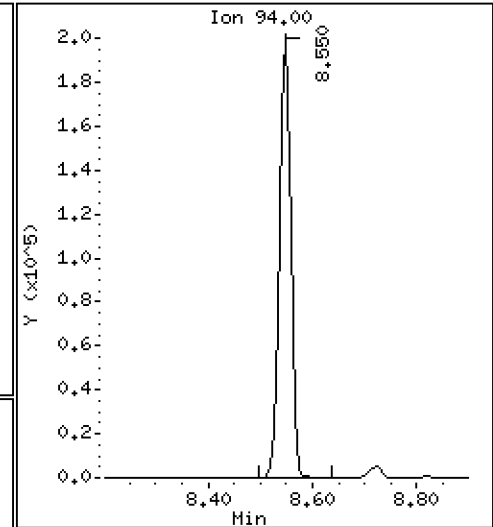
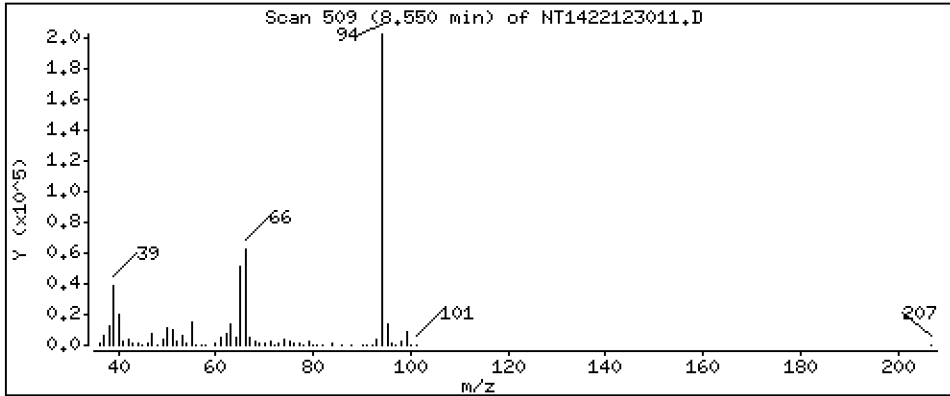
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,351 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

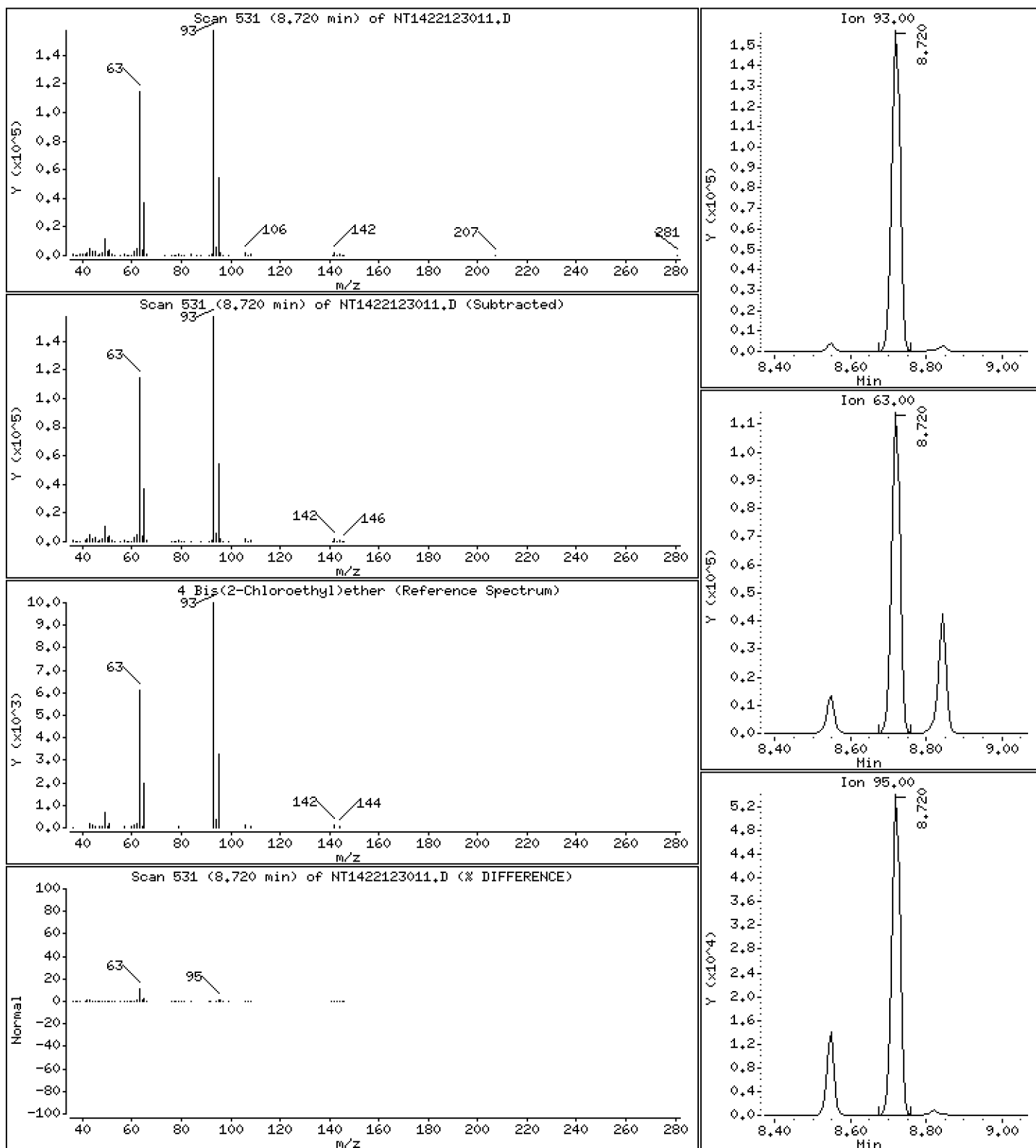
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 5,095 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

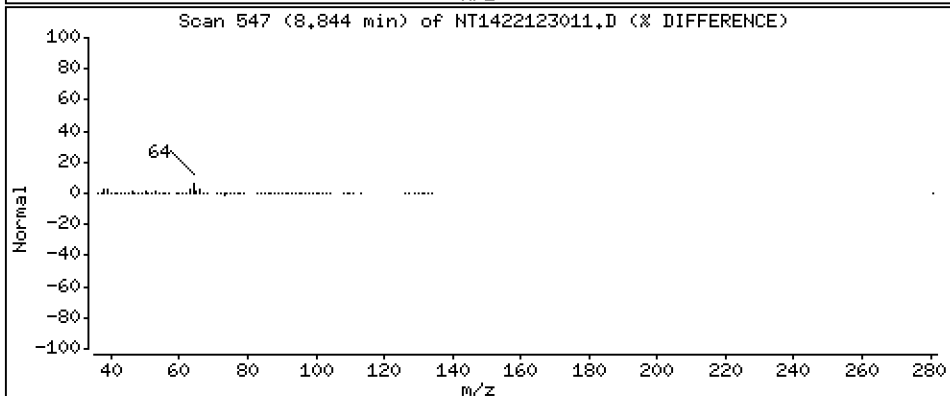
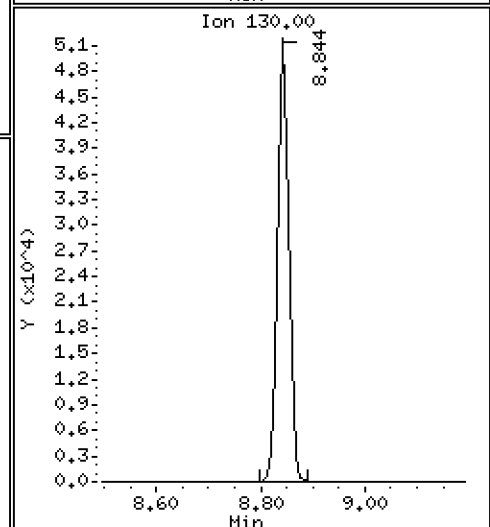
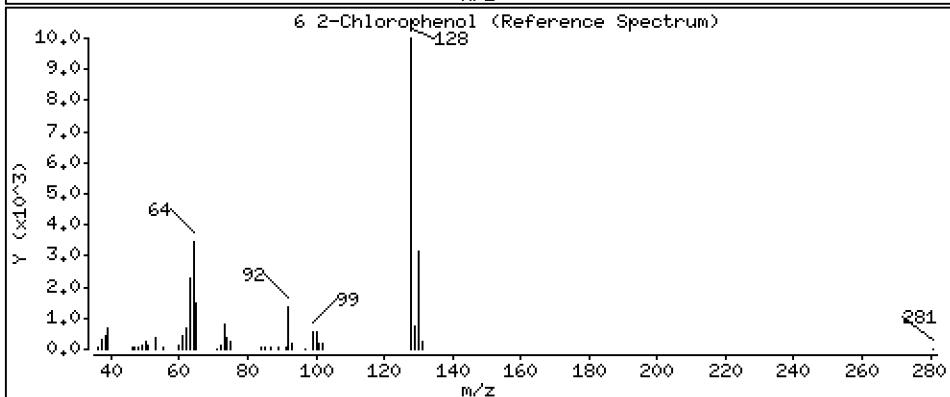
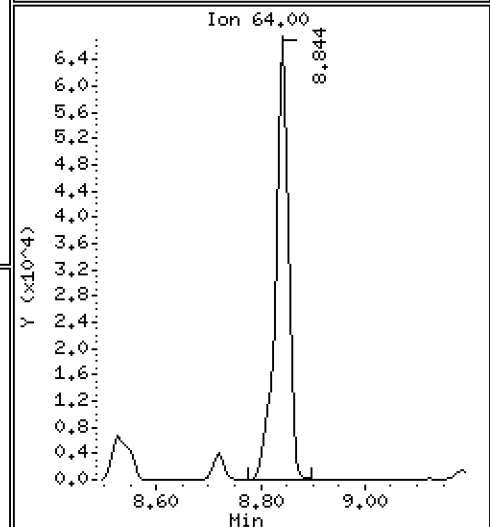
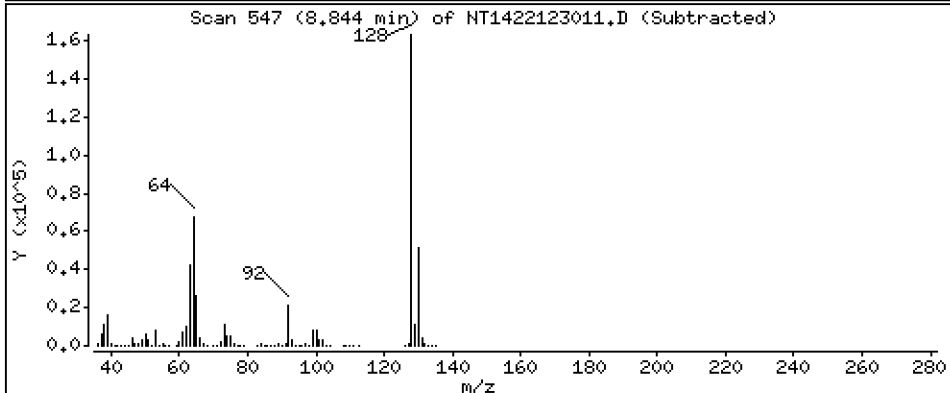
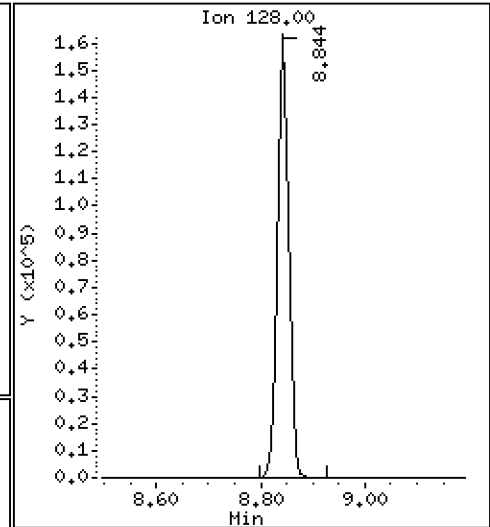
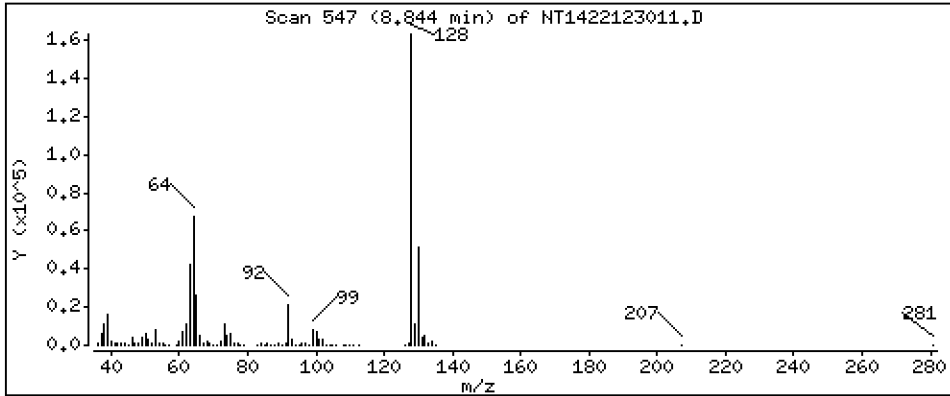
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,461 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

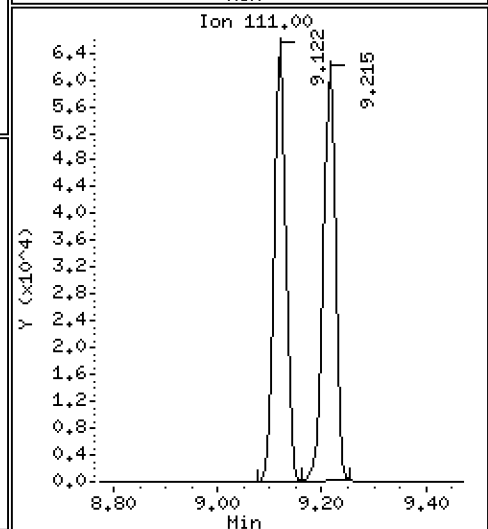
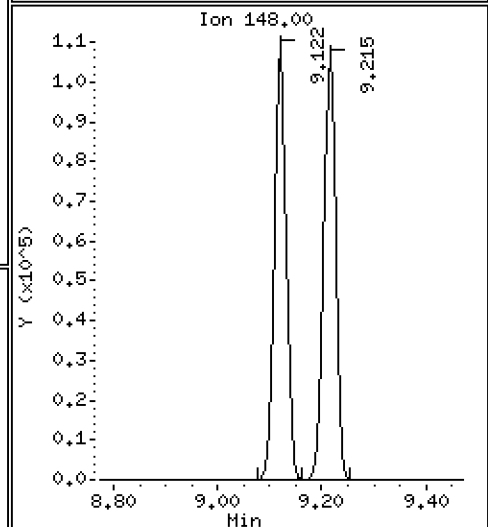
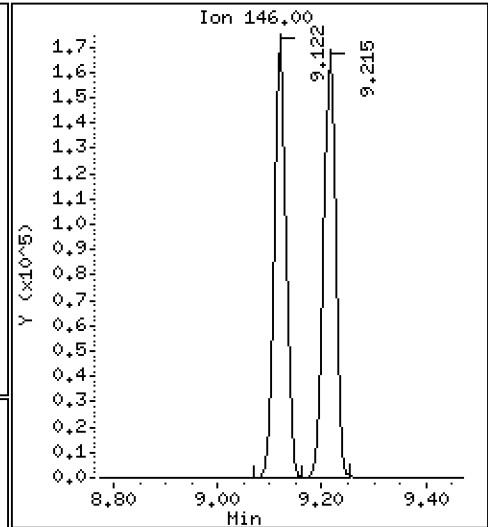
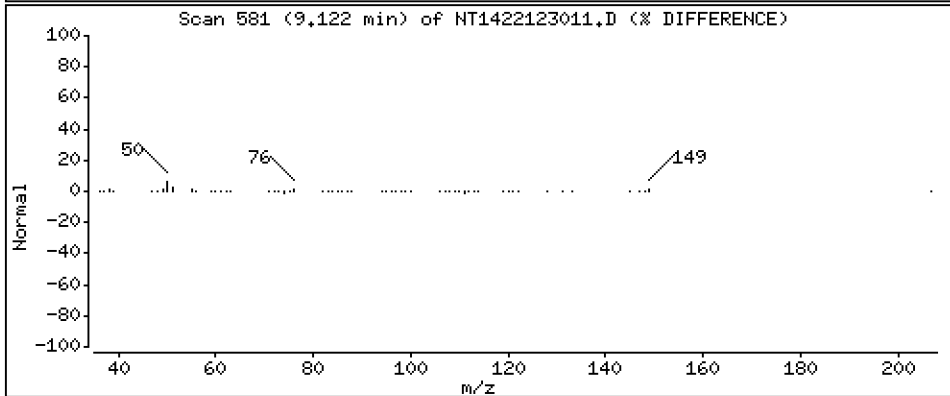
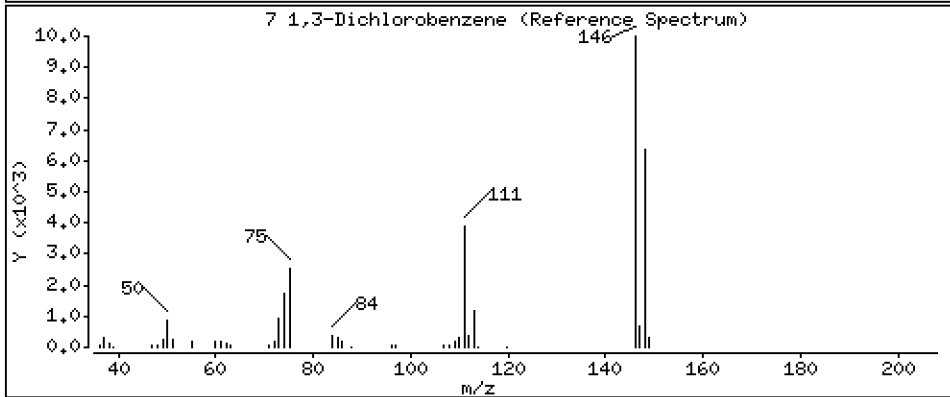
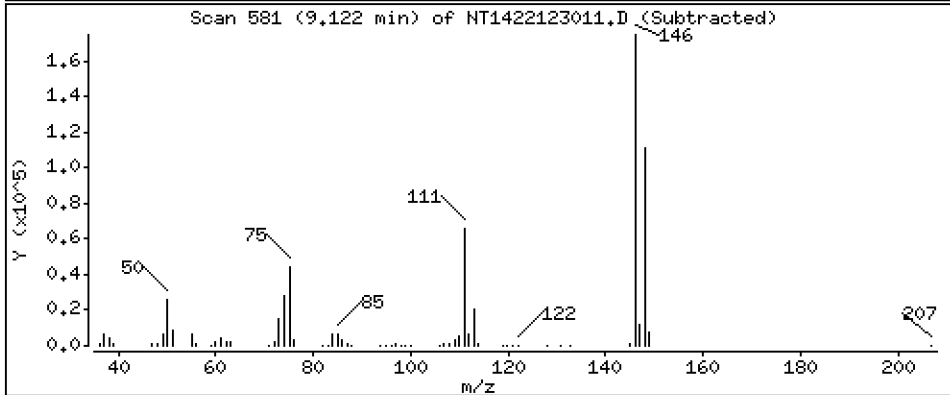
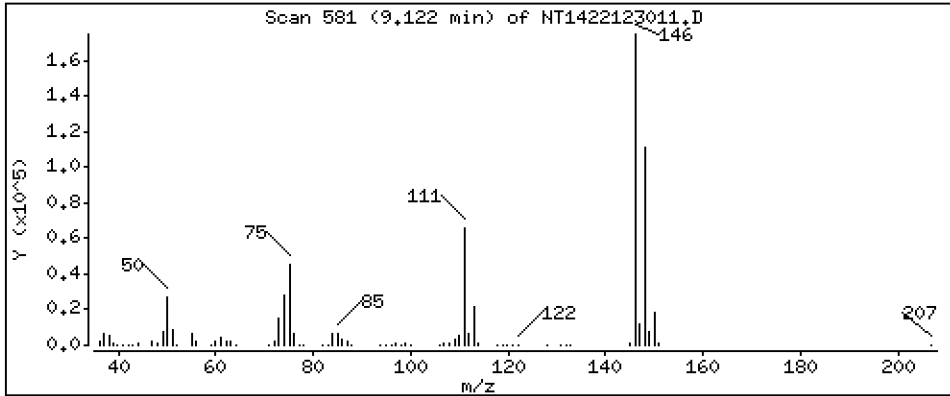
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,754 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

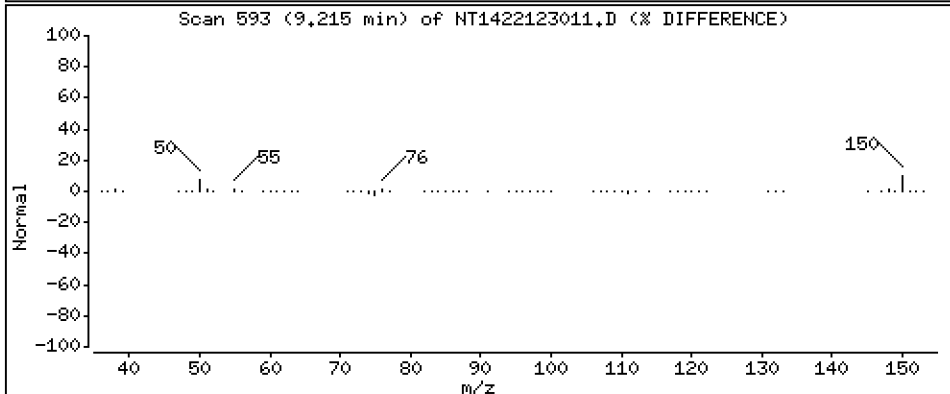
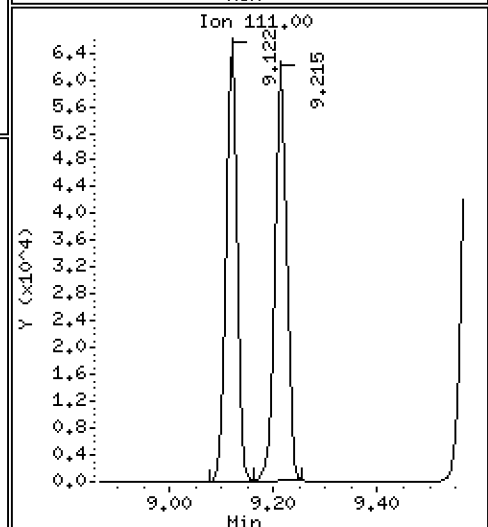
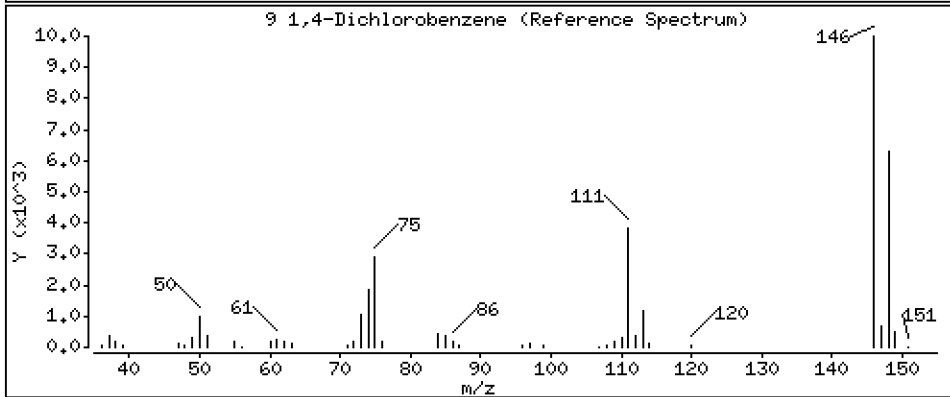
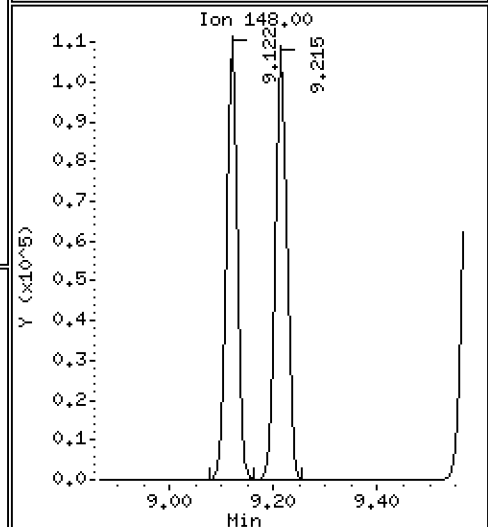
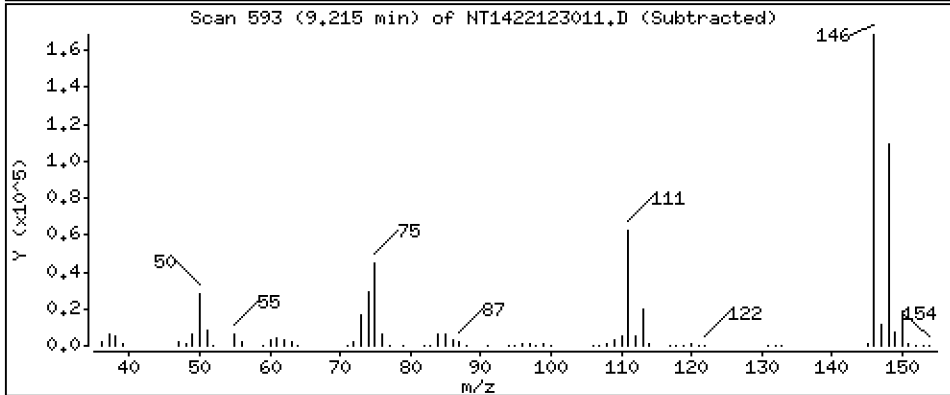
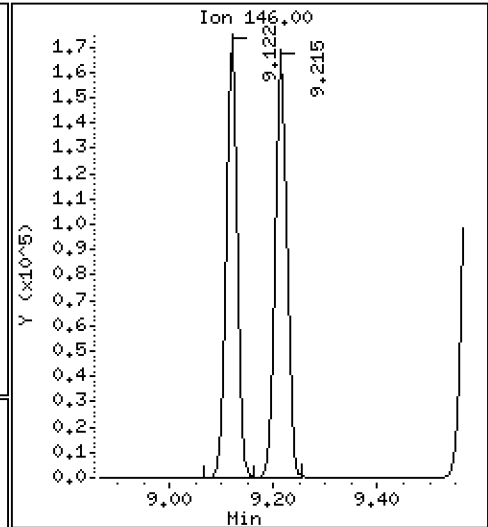
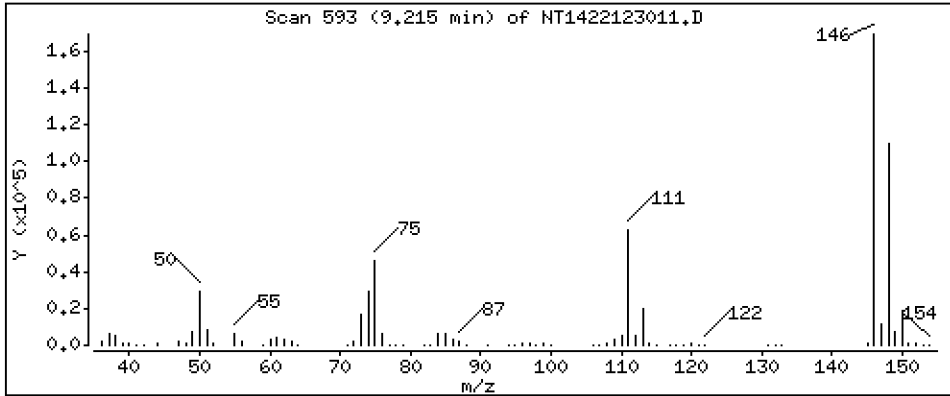
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,773 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

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Sample Info: SKL0355-SCV1

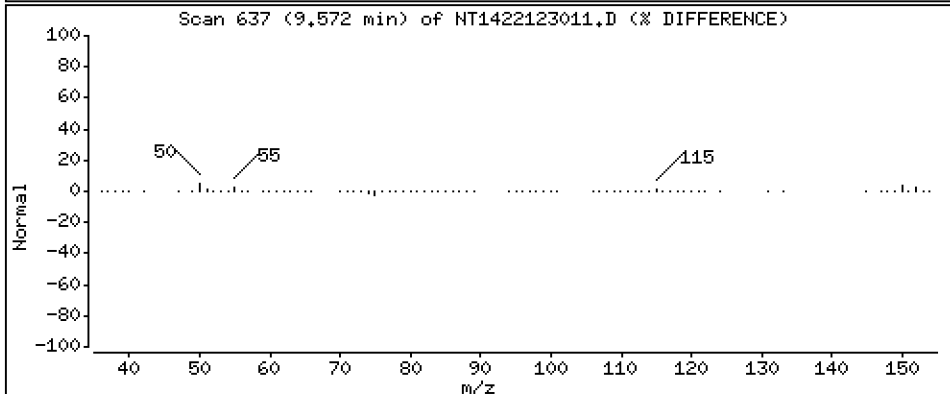
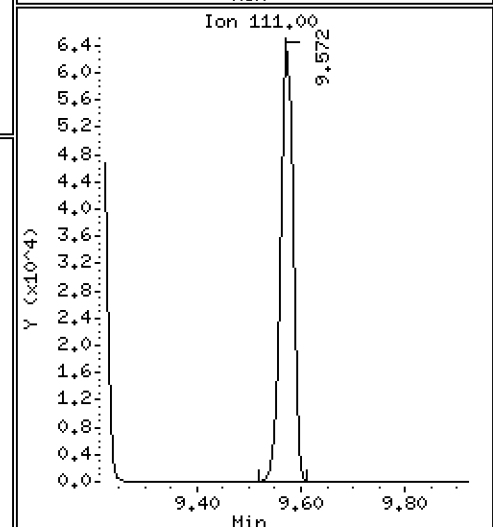
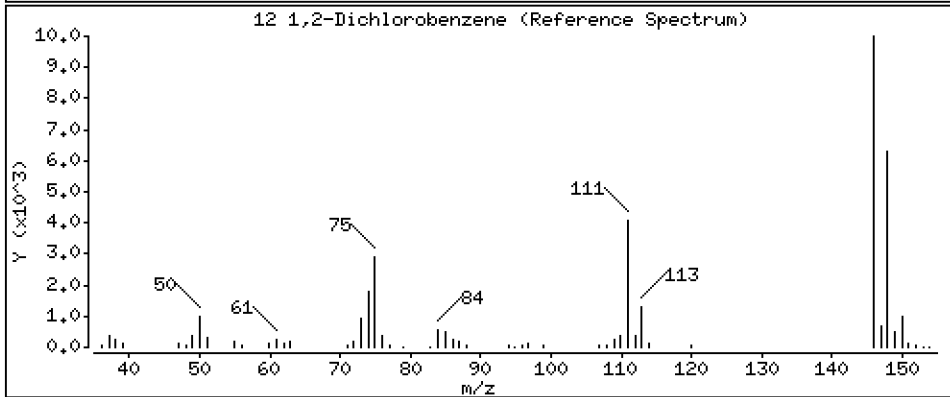
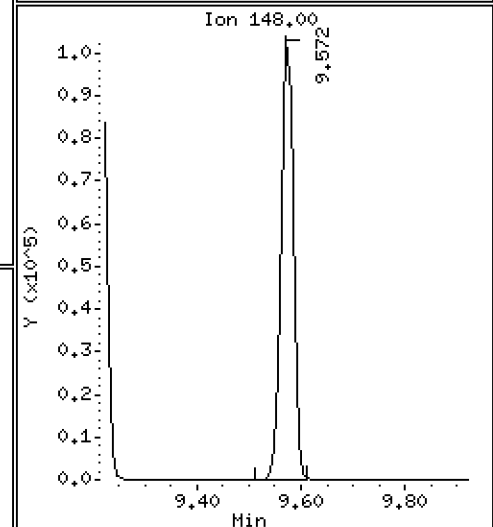
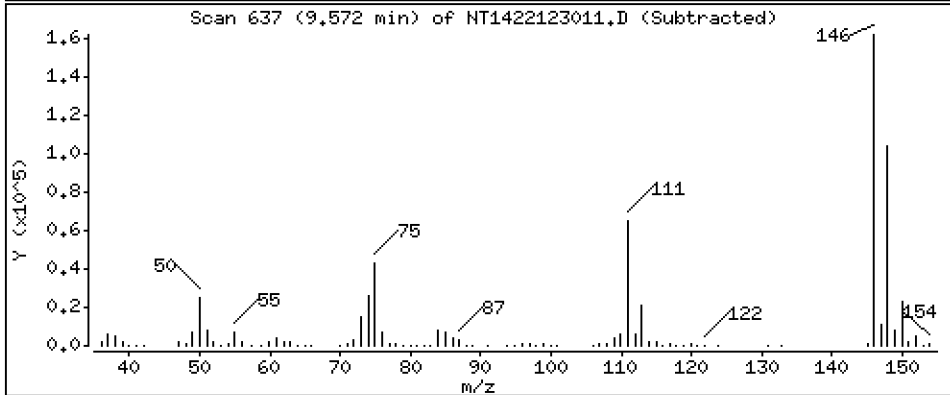
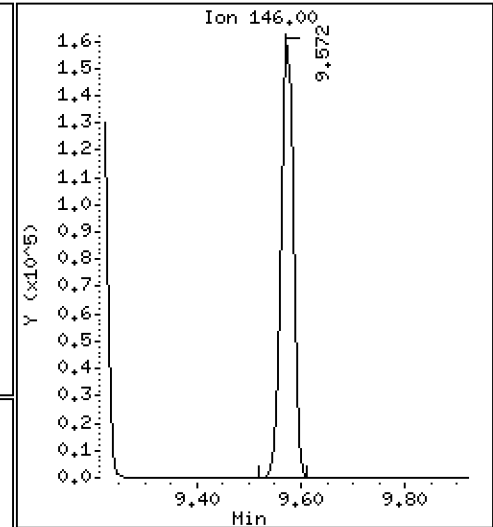
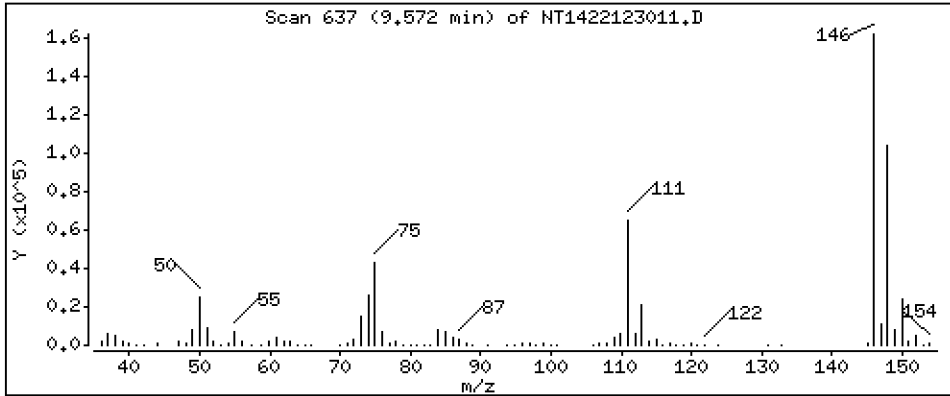
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,767 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

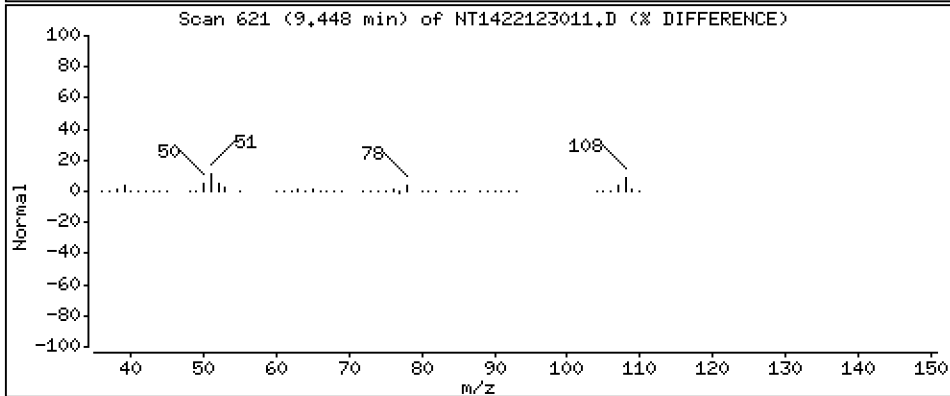
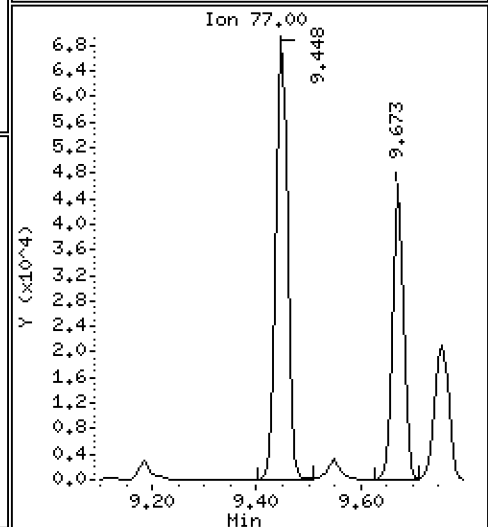
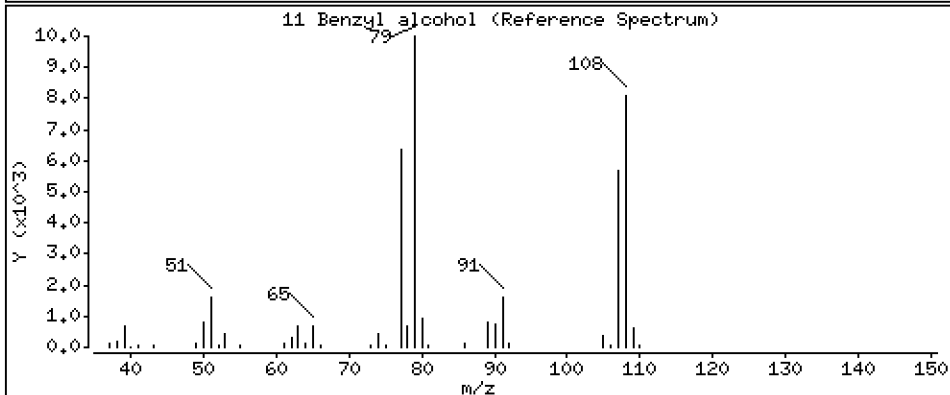
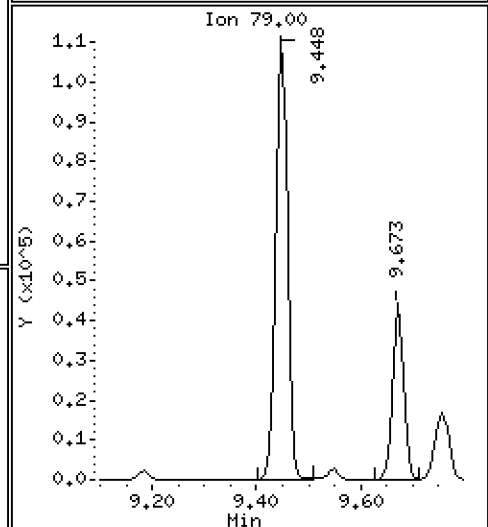
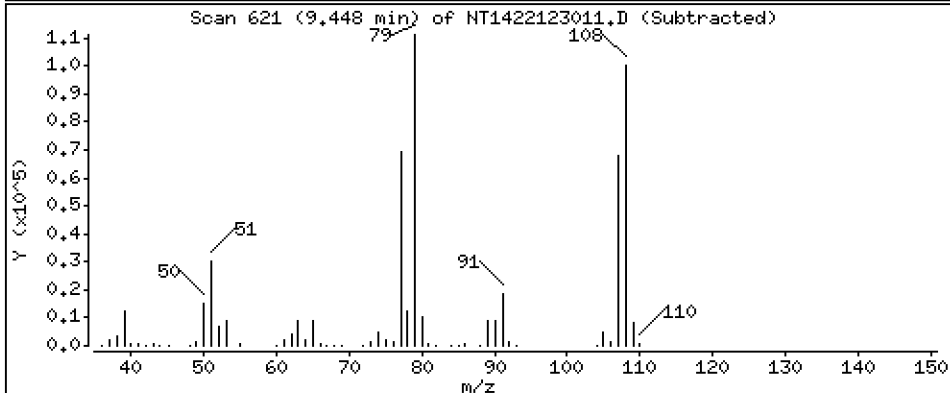
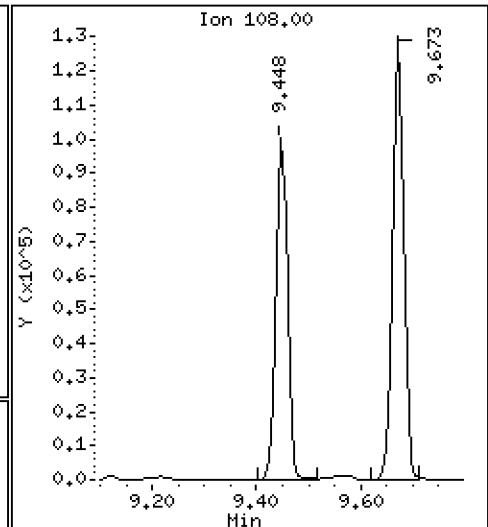
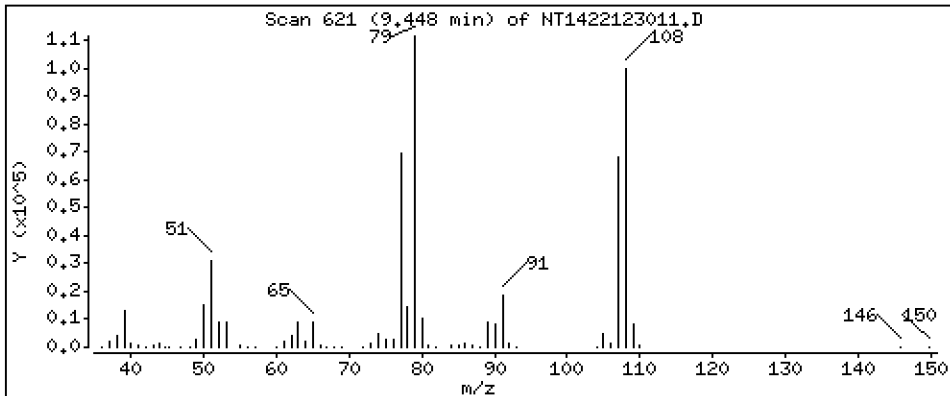
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 4.980 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

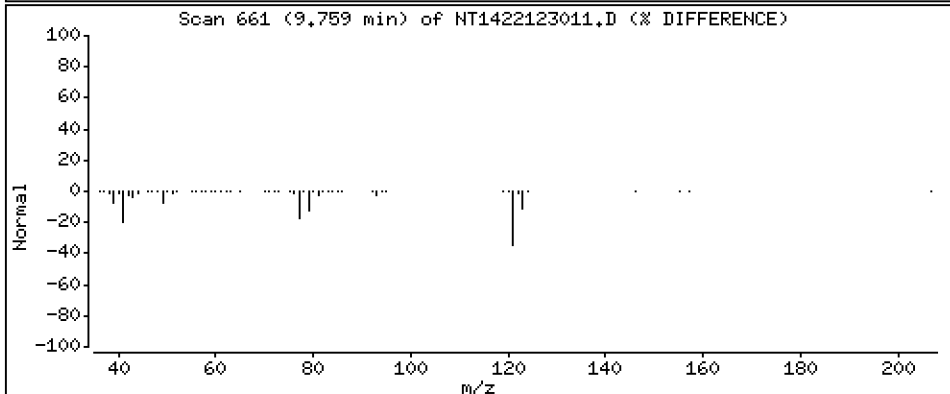
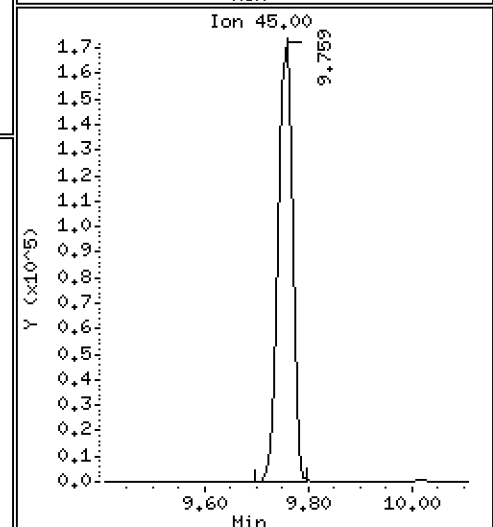
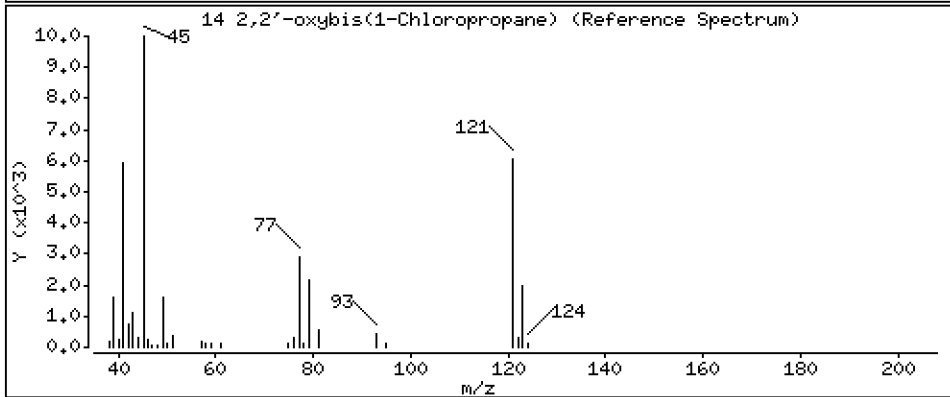
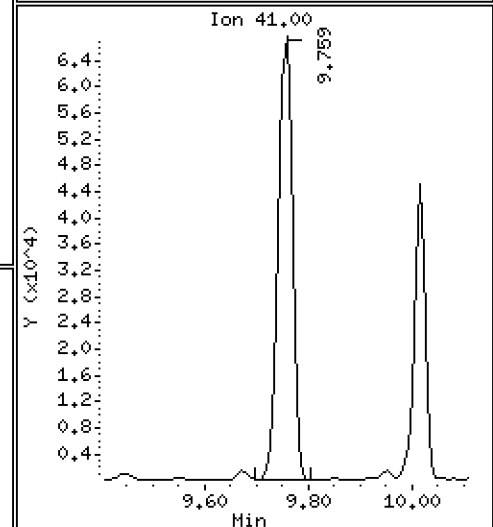
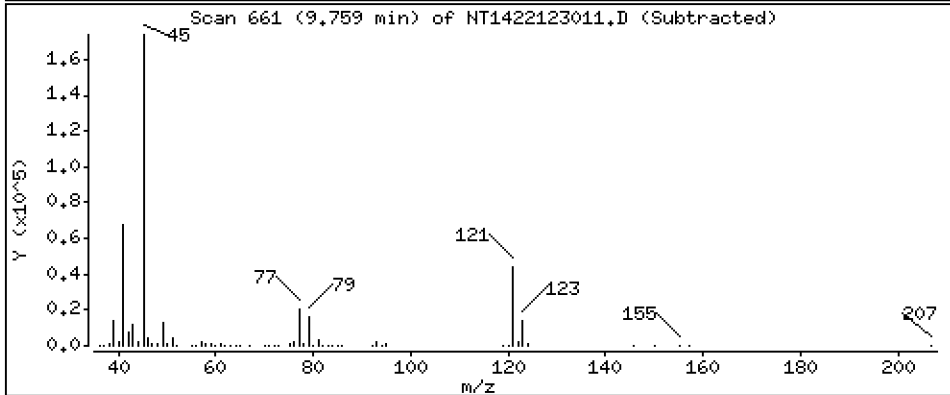
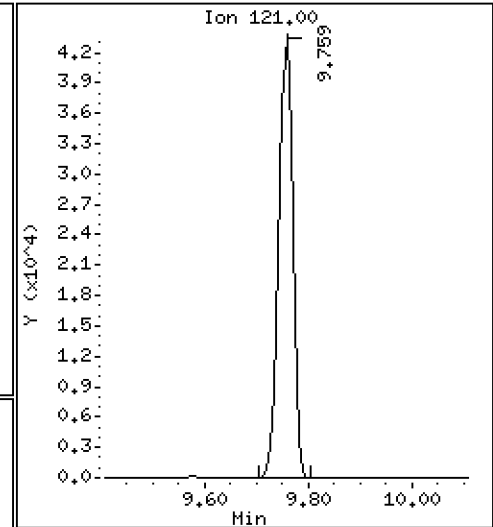
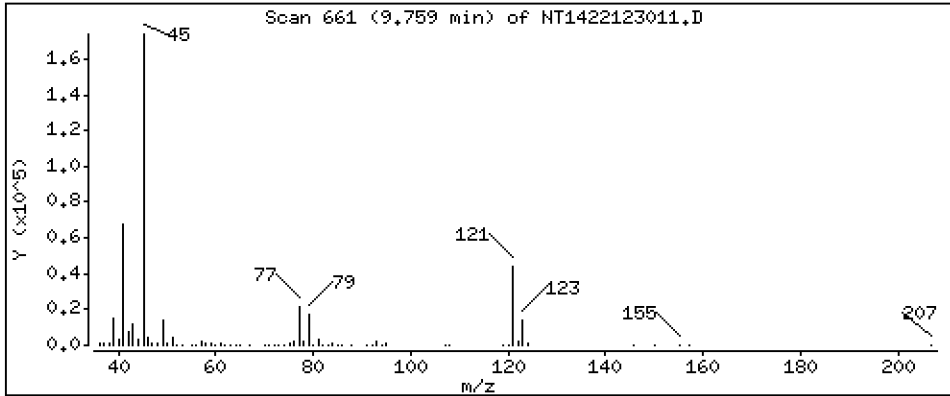
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,193 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

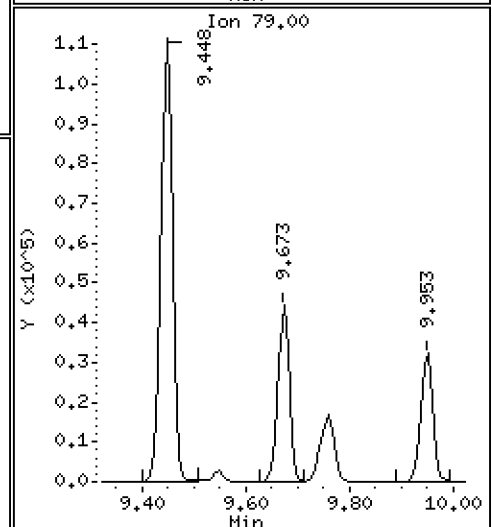
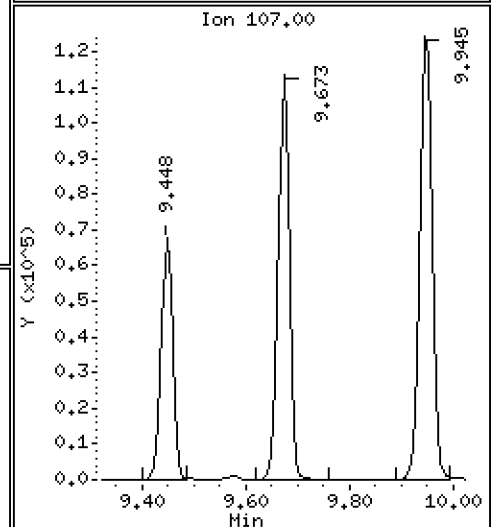
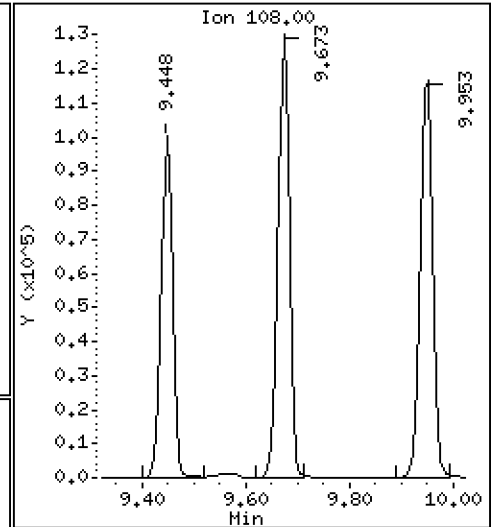
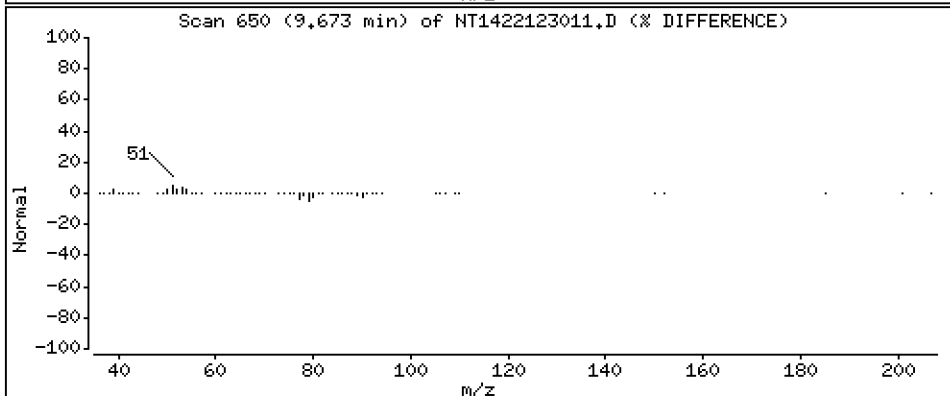
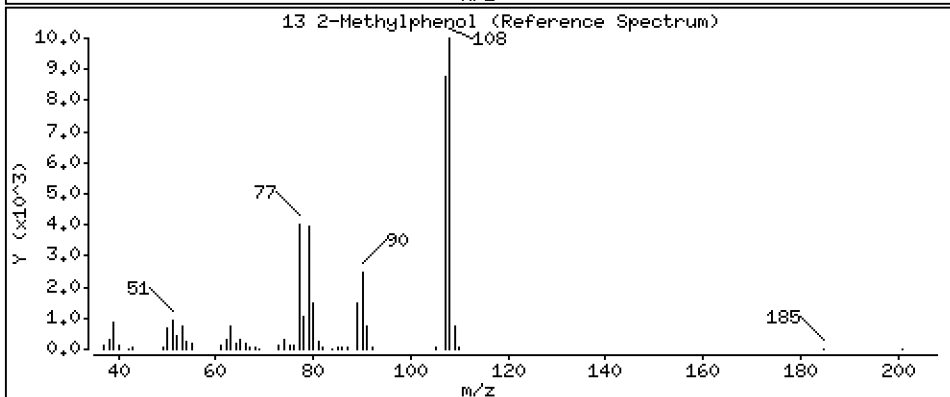
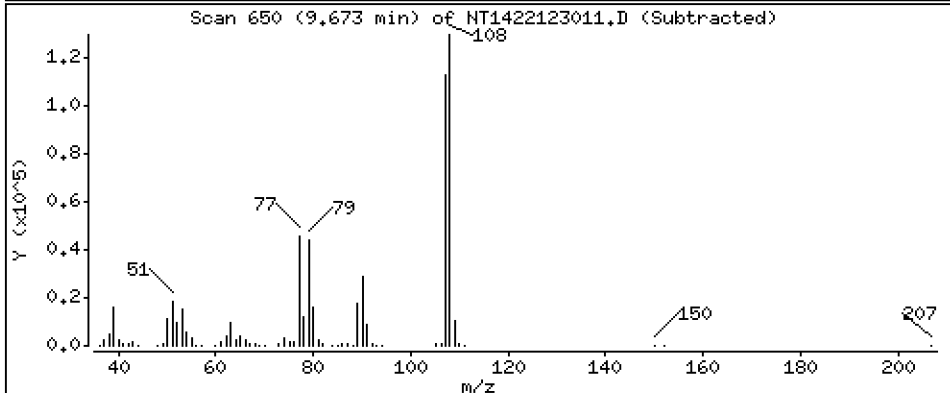
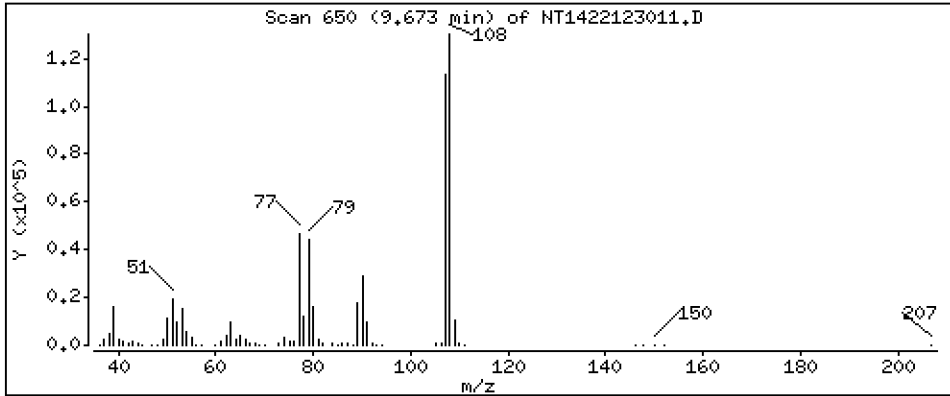
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 3.927 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

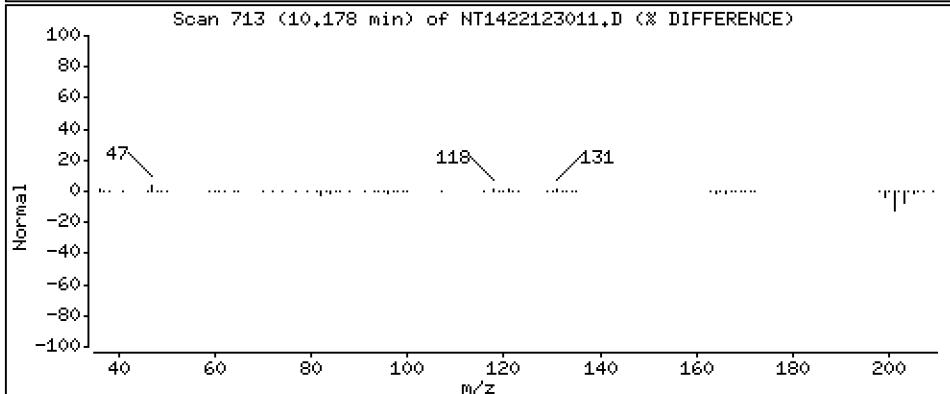
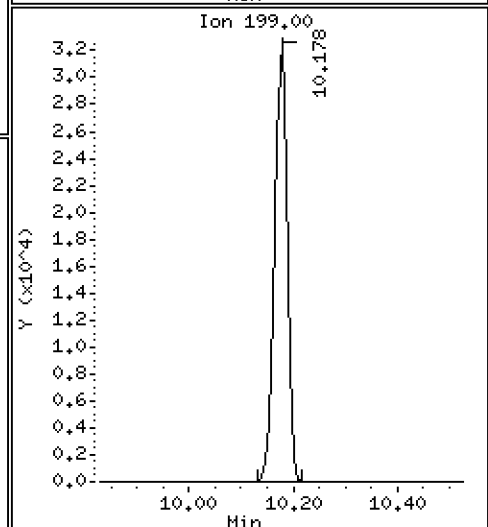
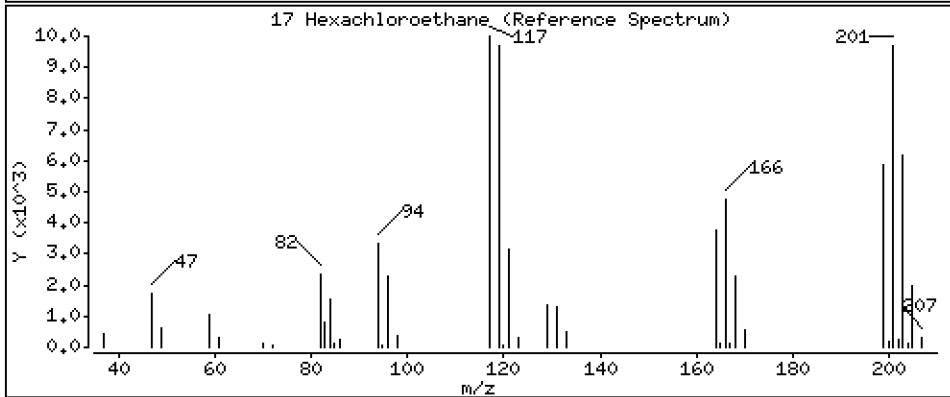
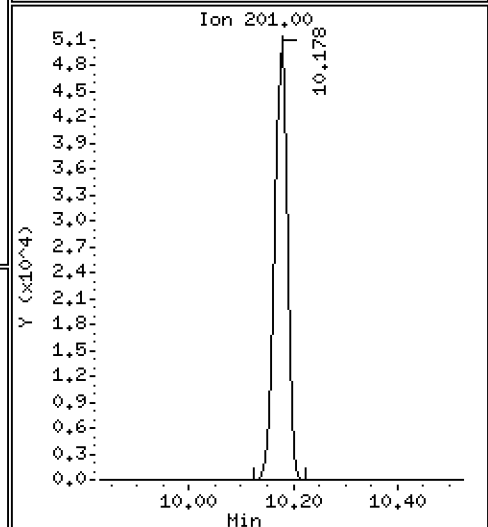
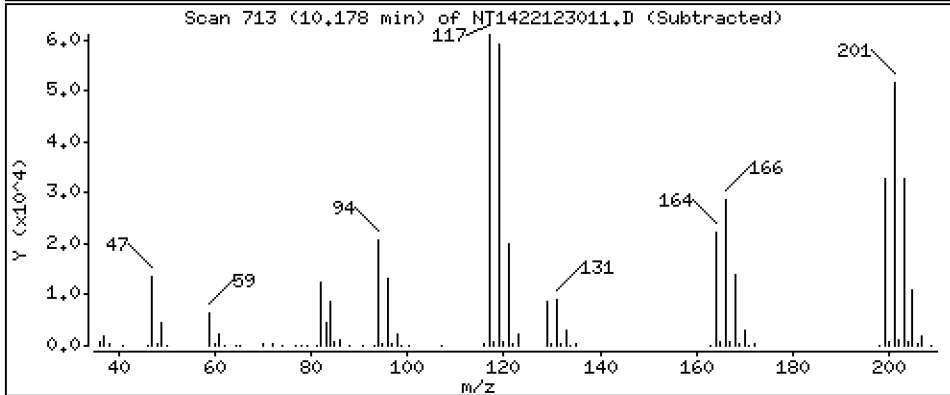
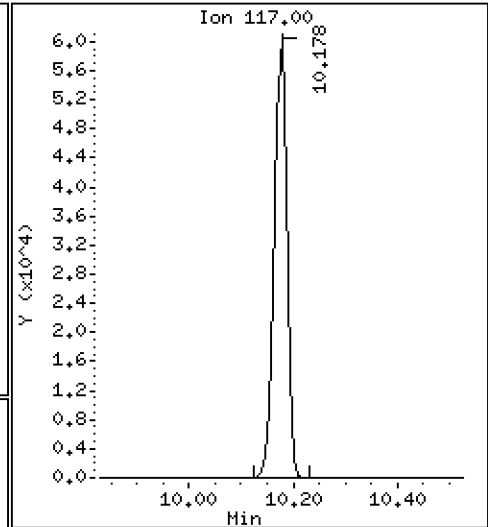
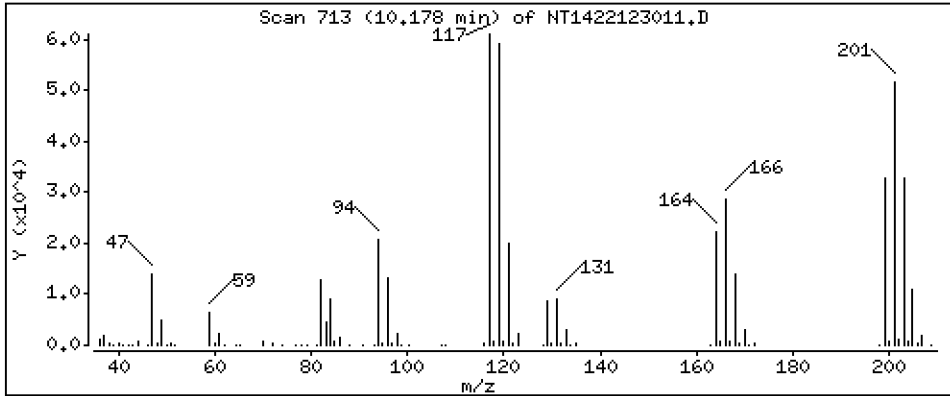
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,929 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

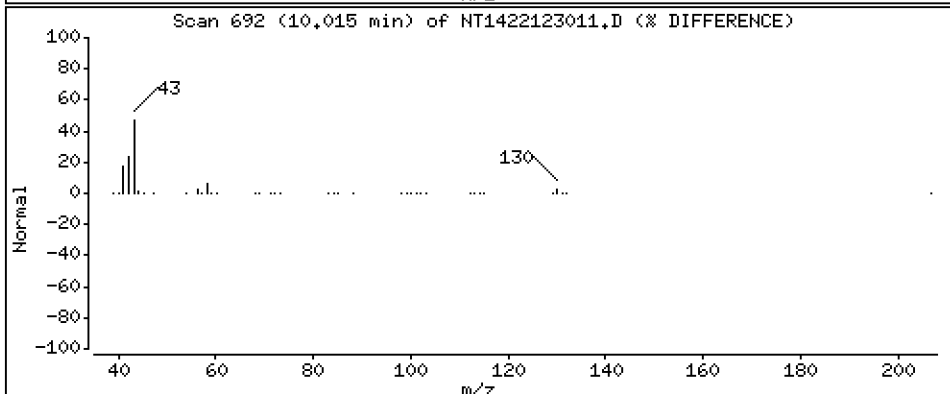
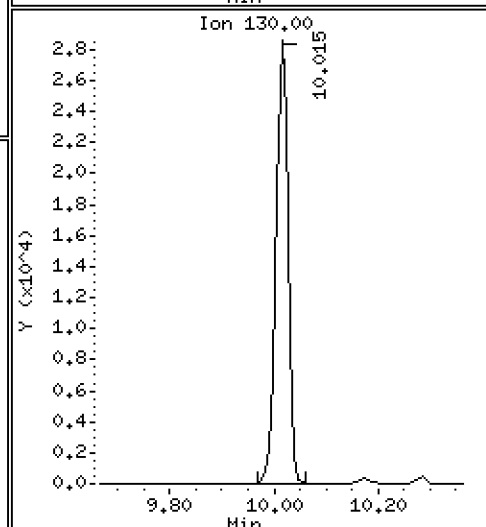
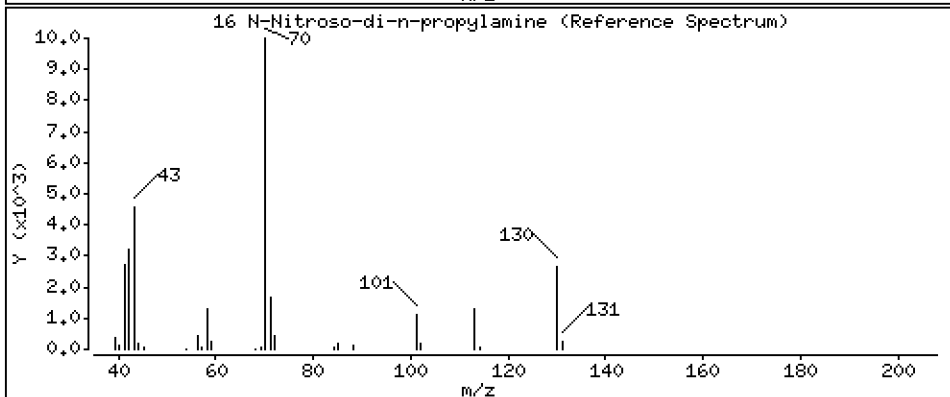
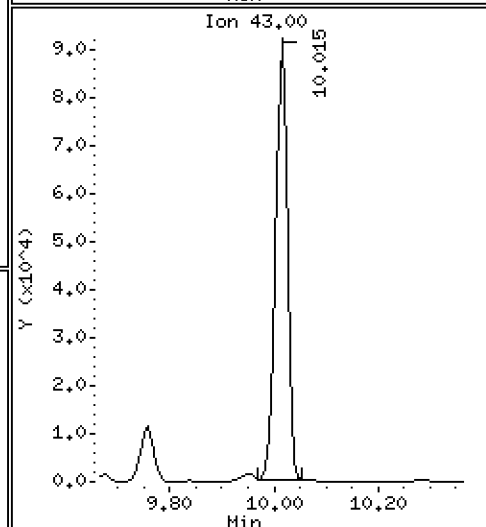
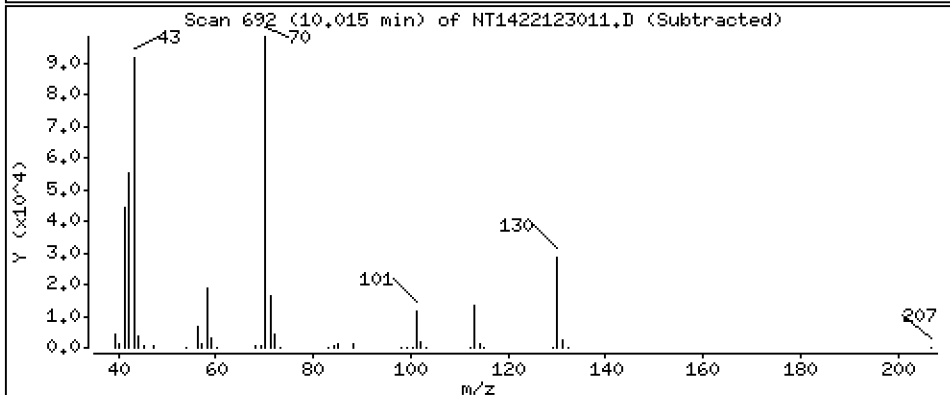
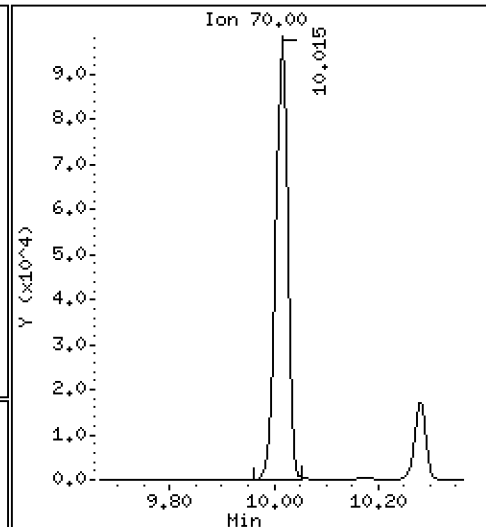
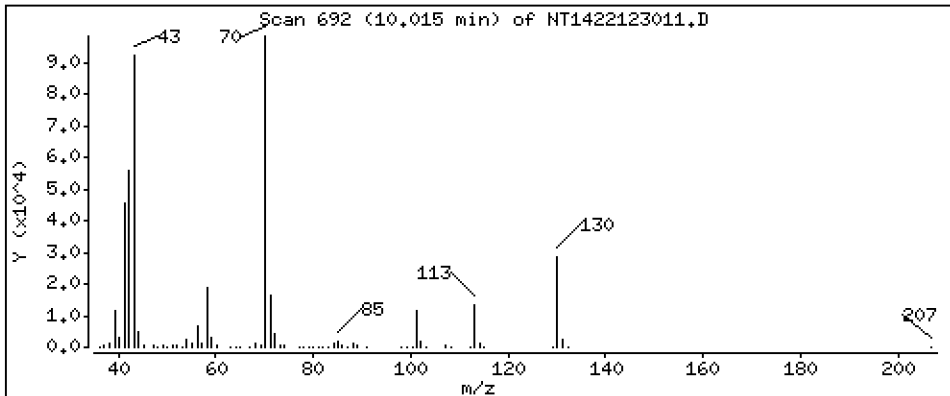
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,128 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

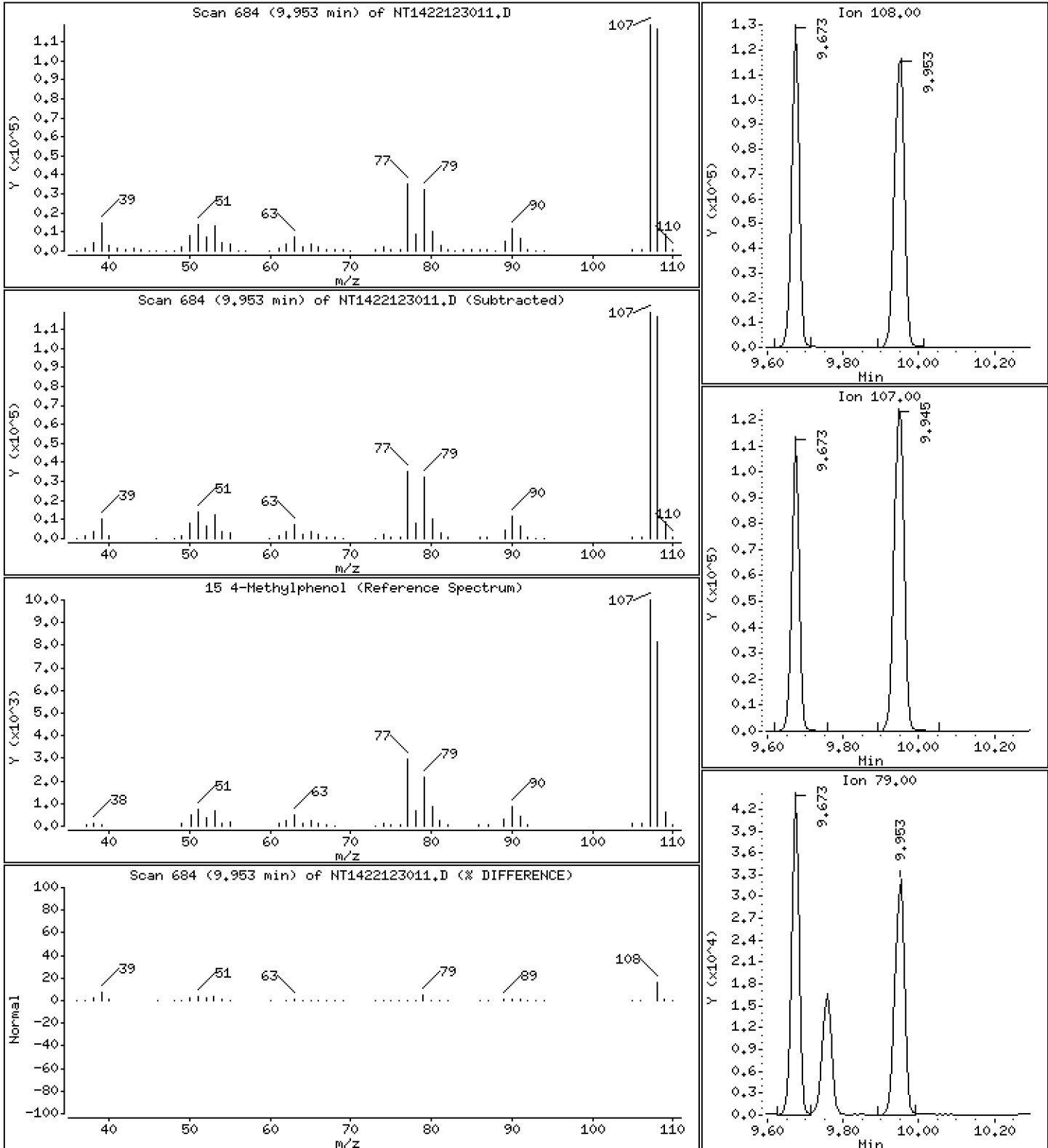
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,122 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

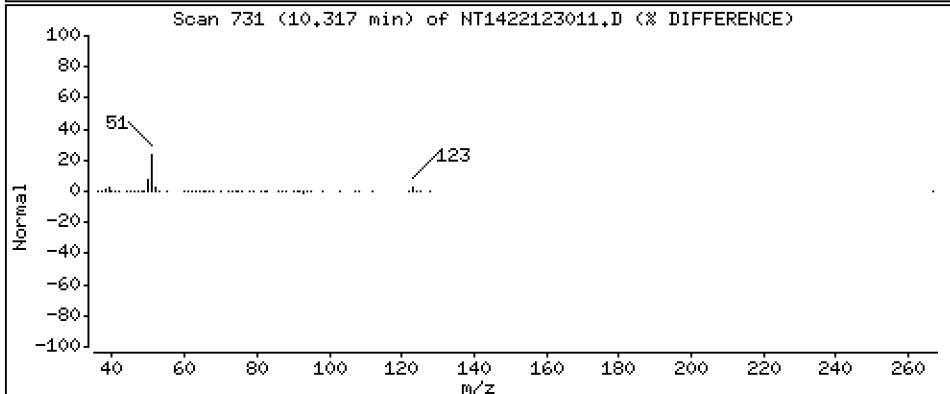
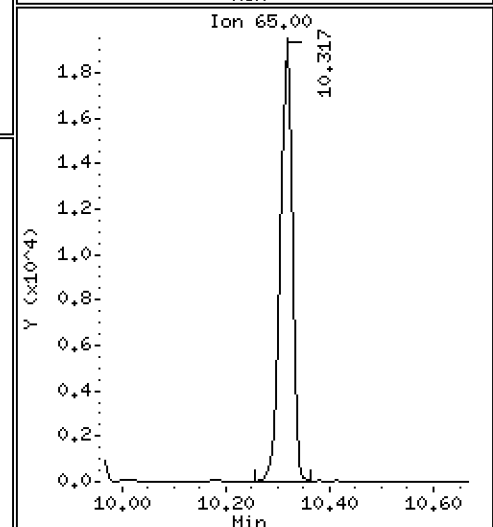
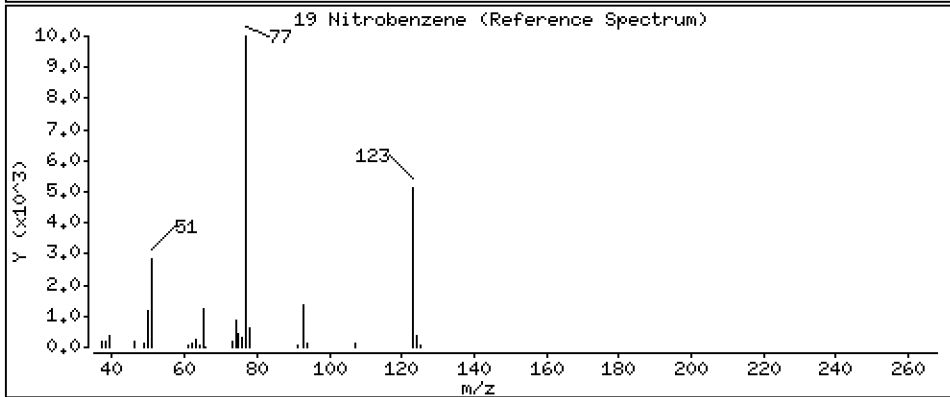
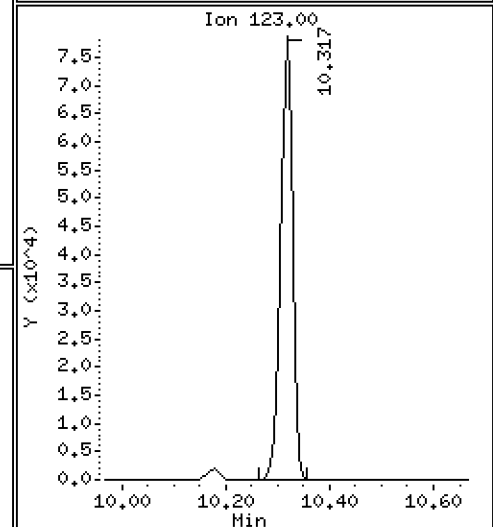
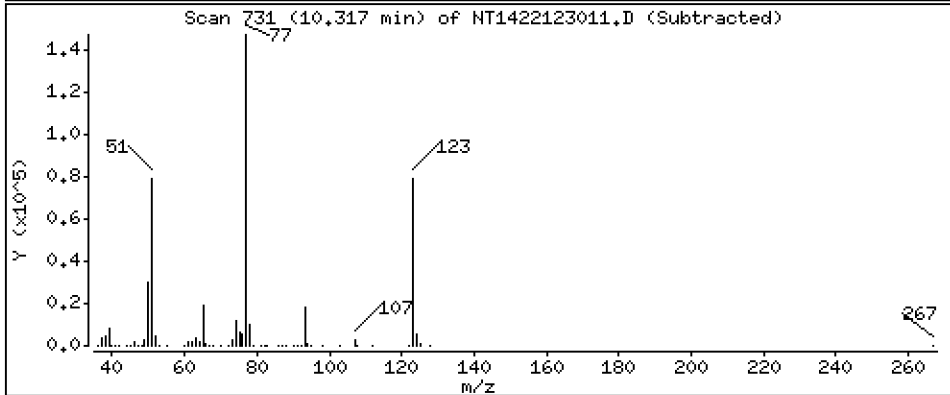
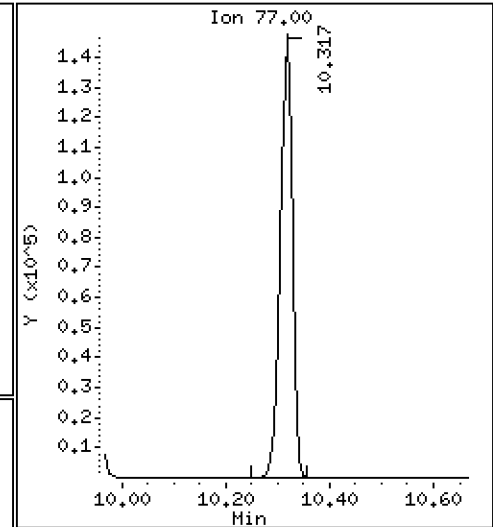
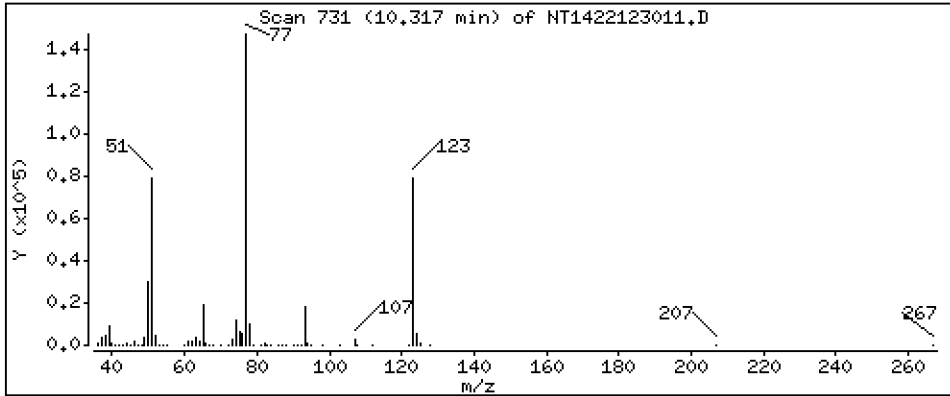
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,880 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

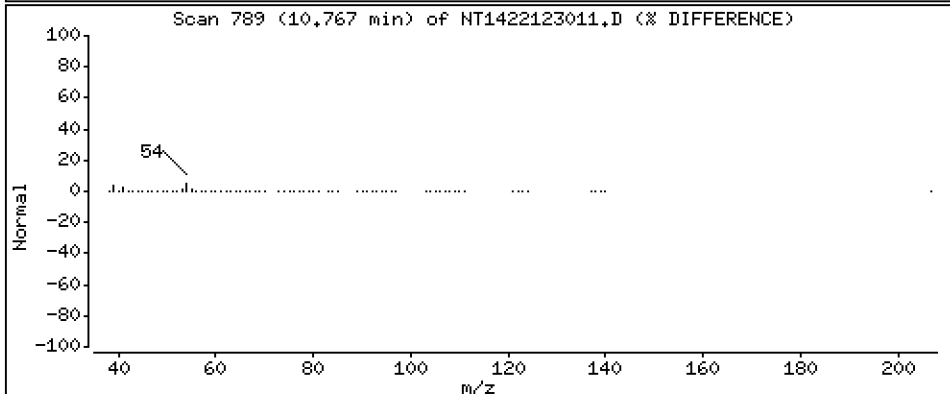
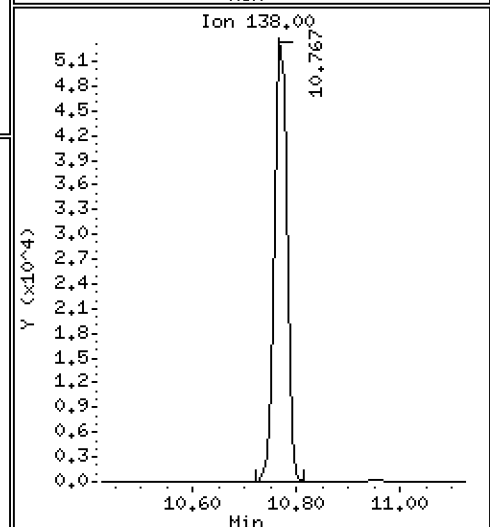
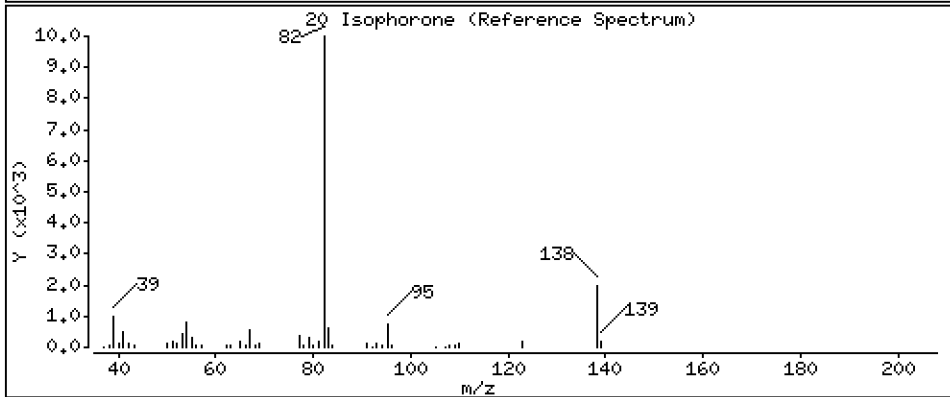
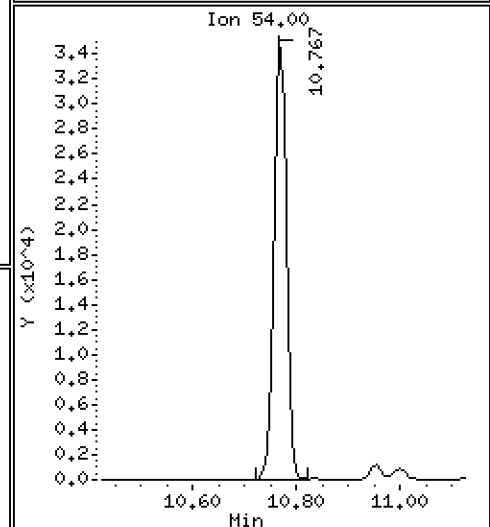
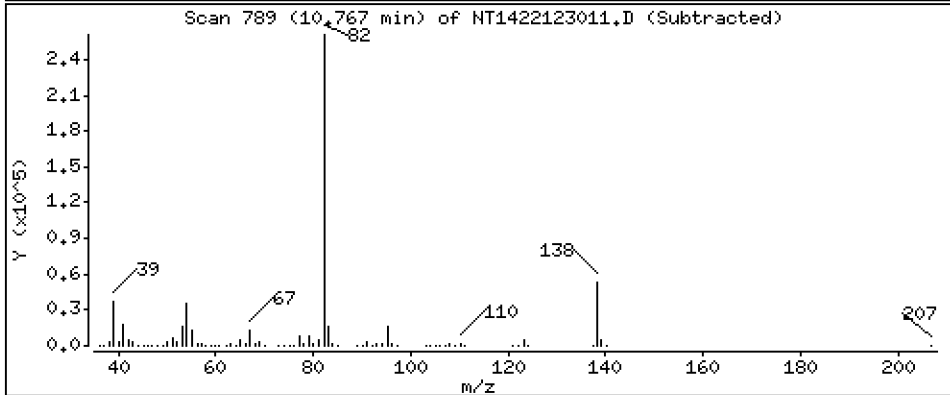
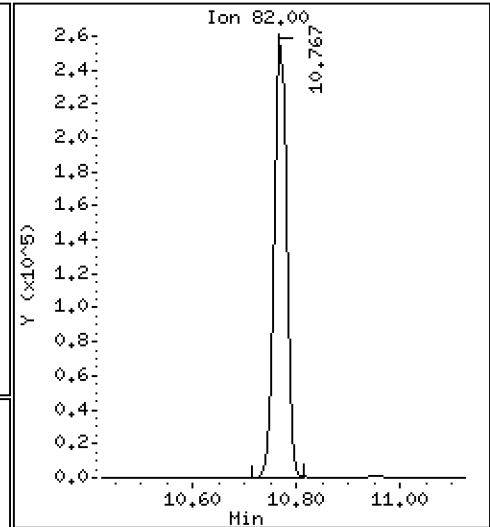
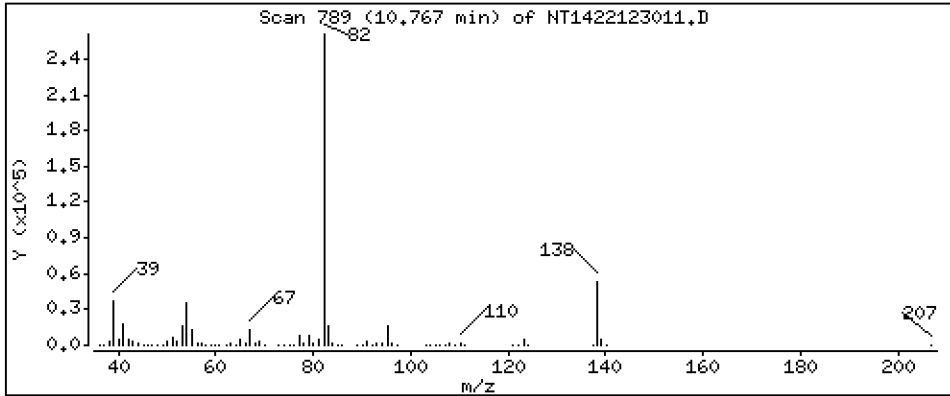
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 6,946 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

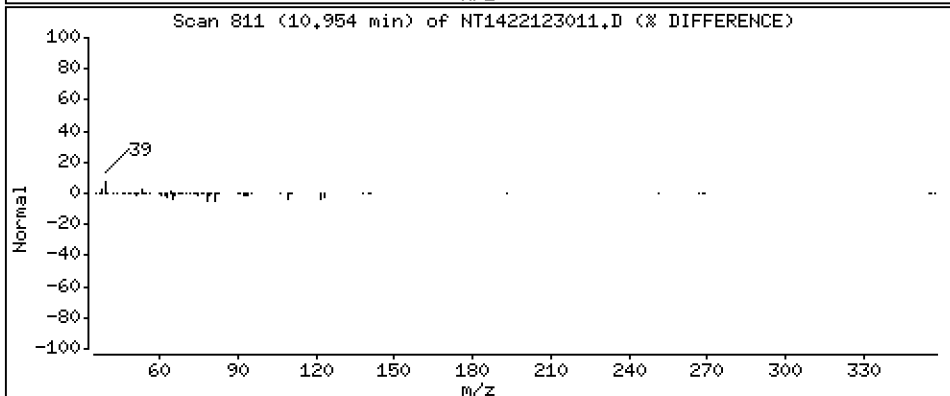
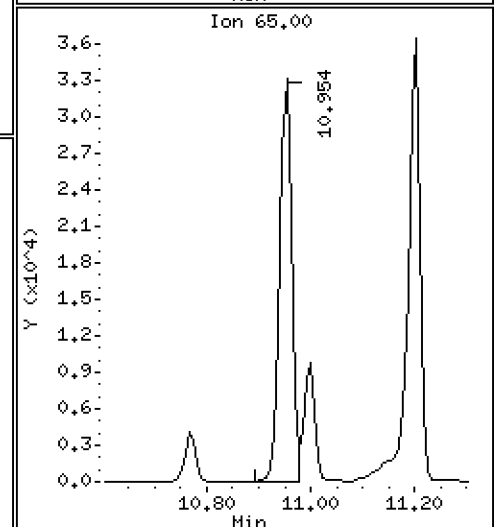
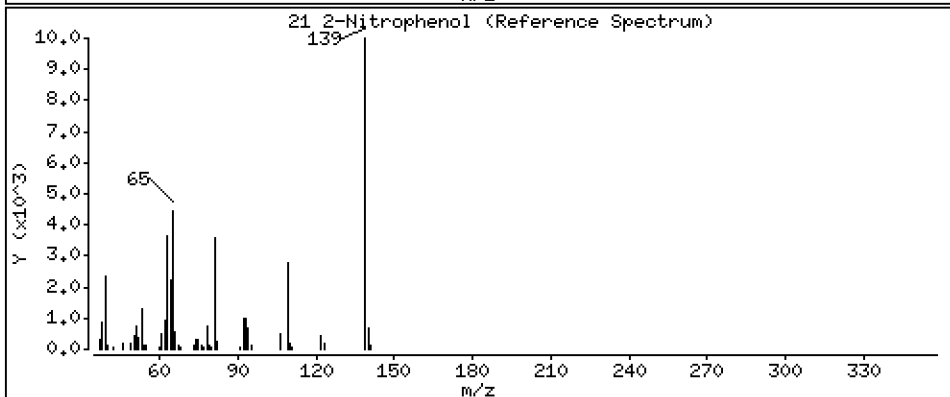
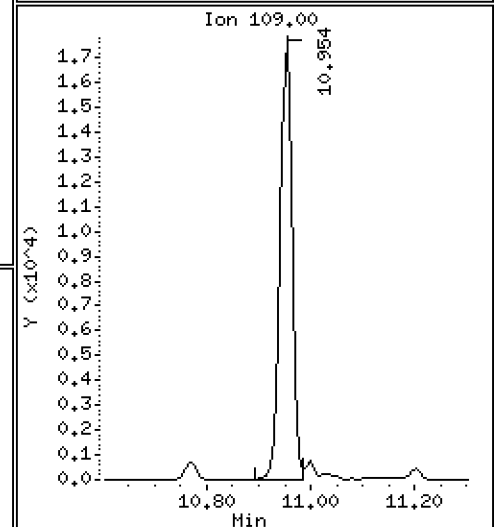
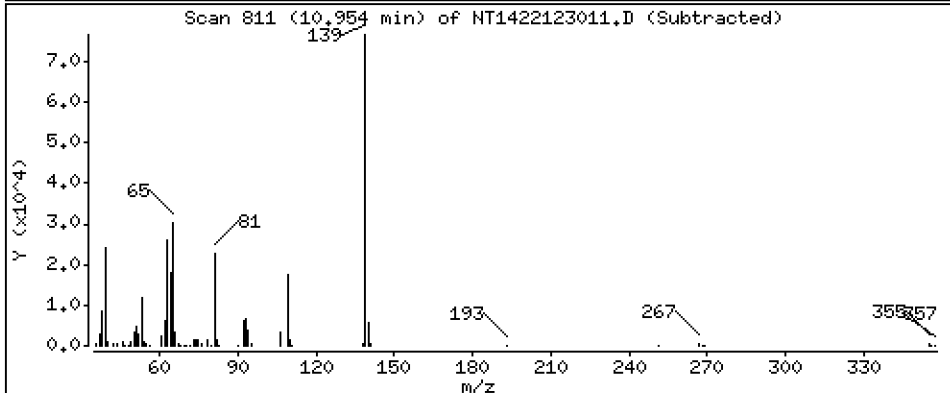
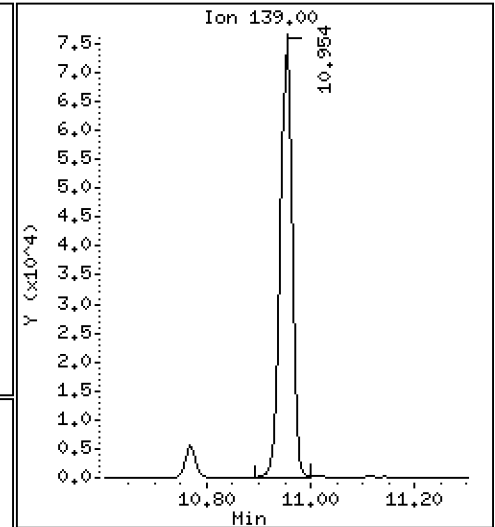
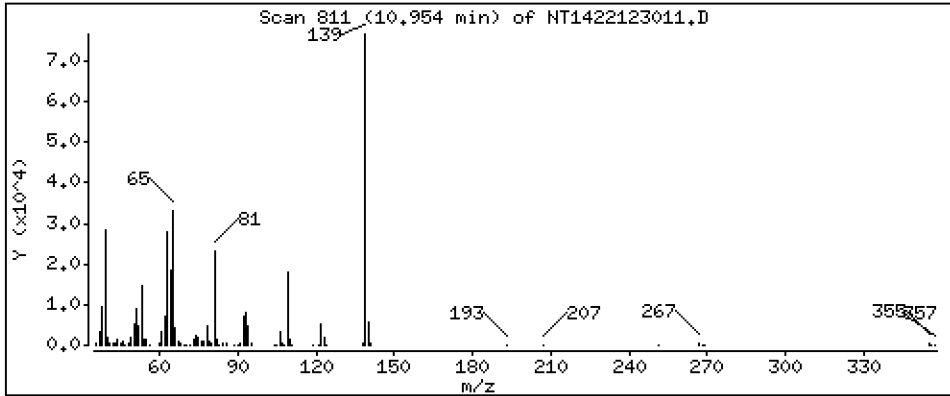
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,556 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

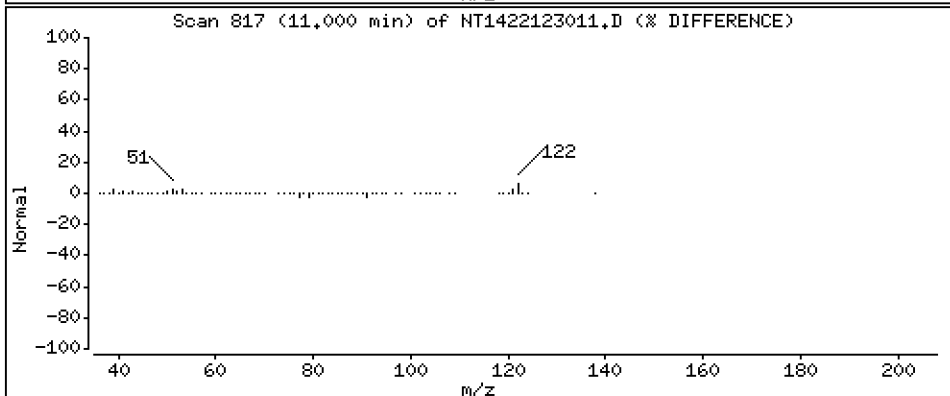
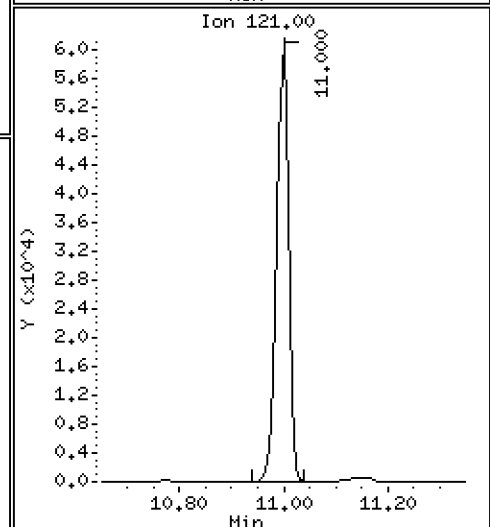
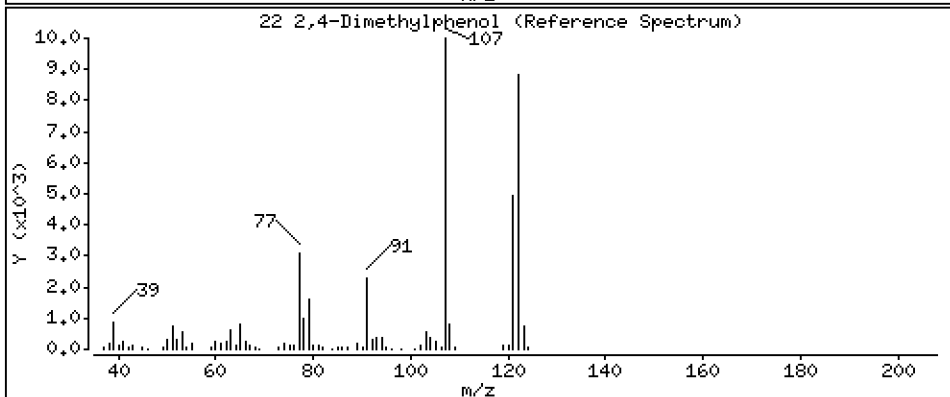
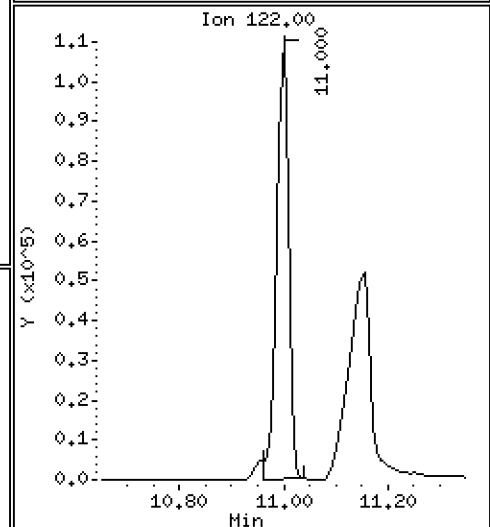
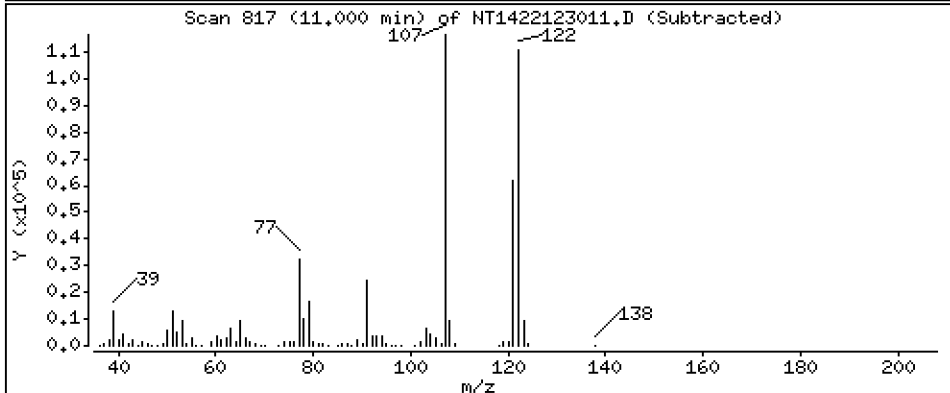
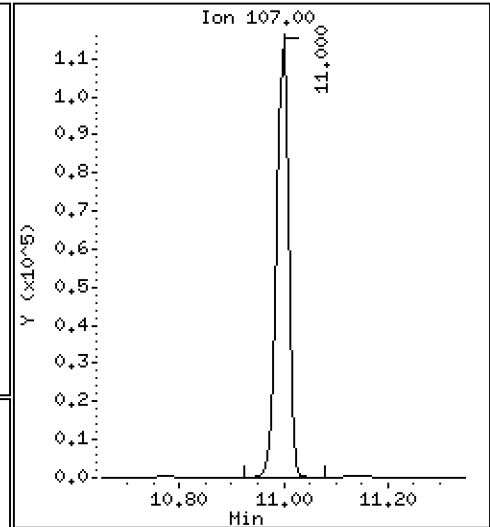
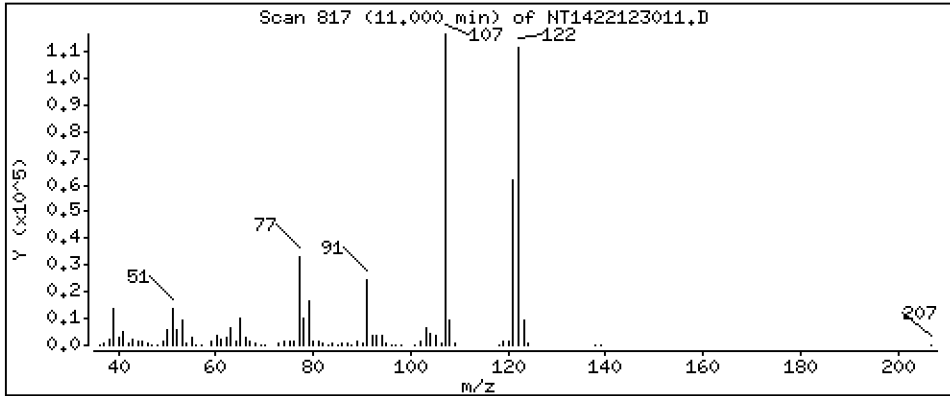
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 3,663 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

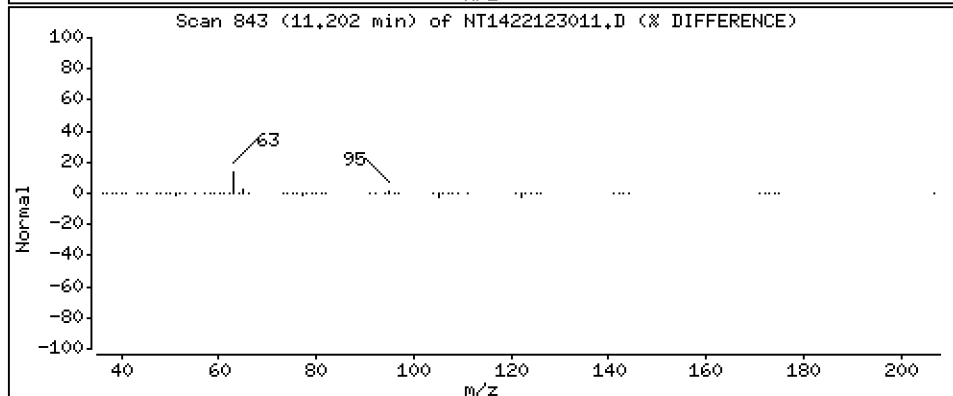
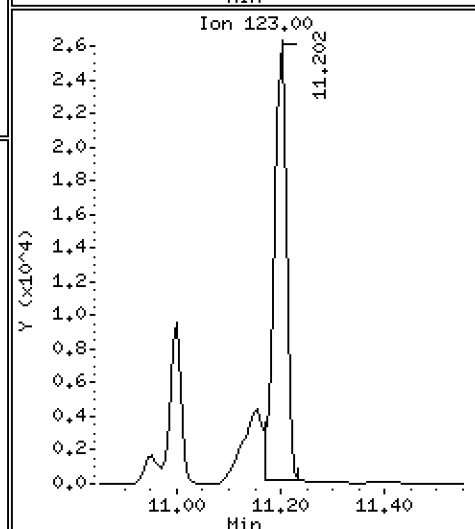
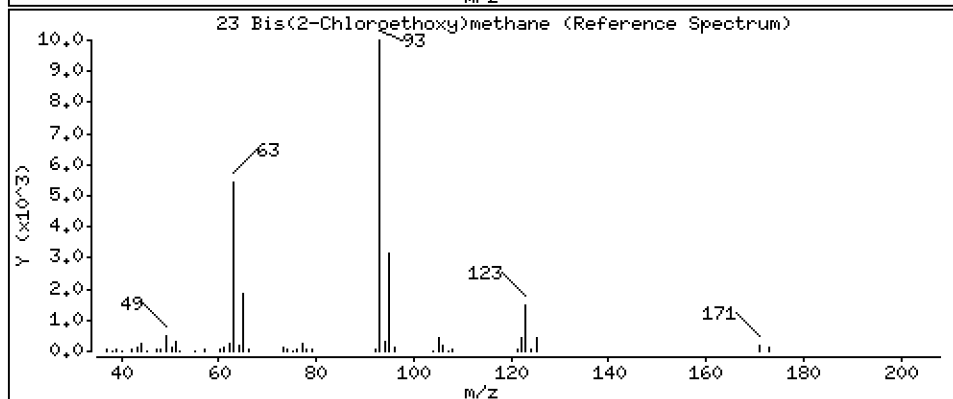
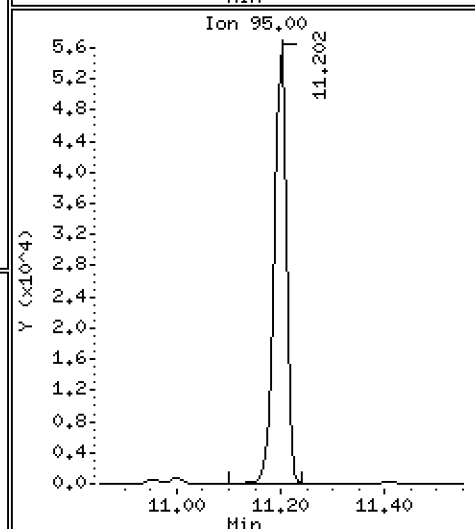
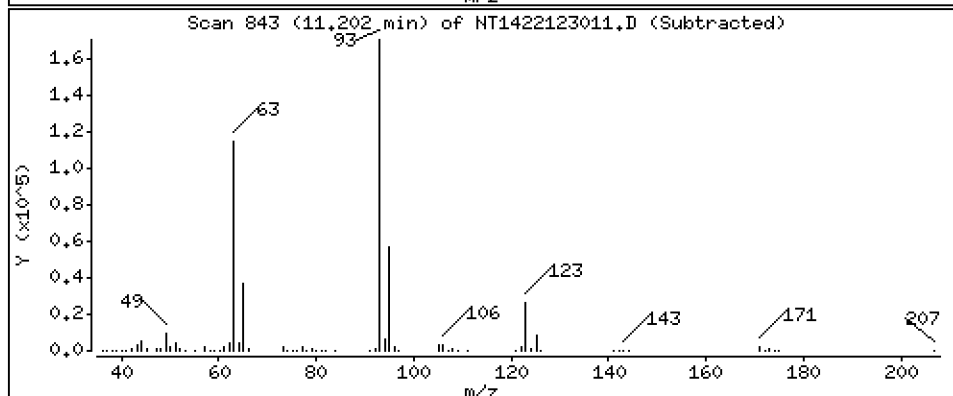
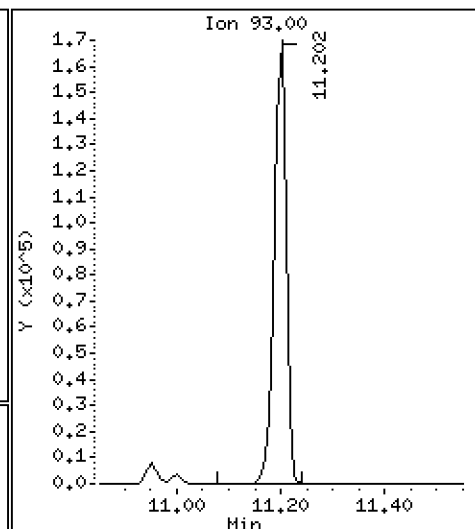
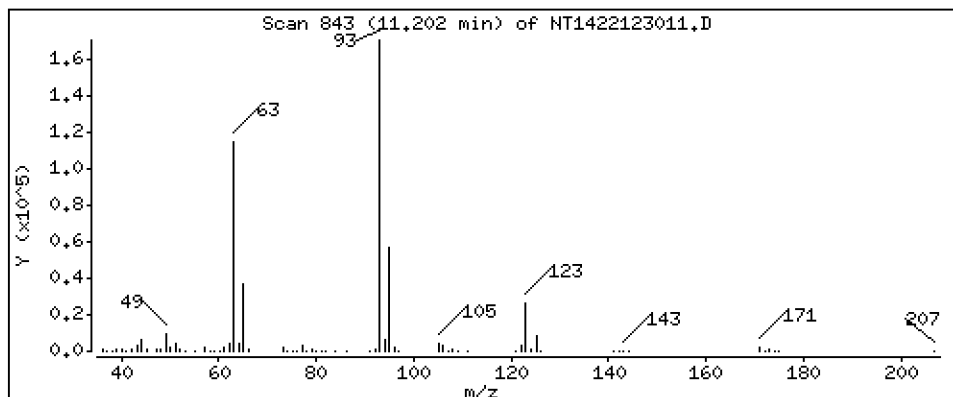
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 5,670 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

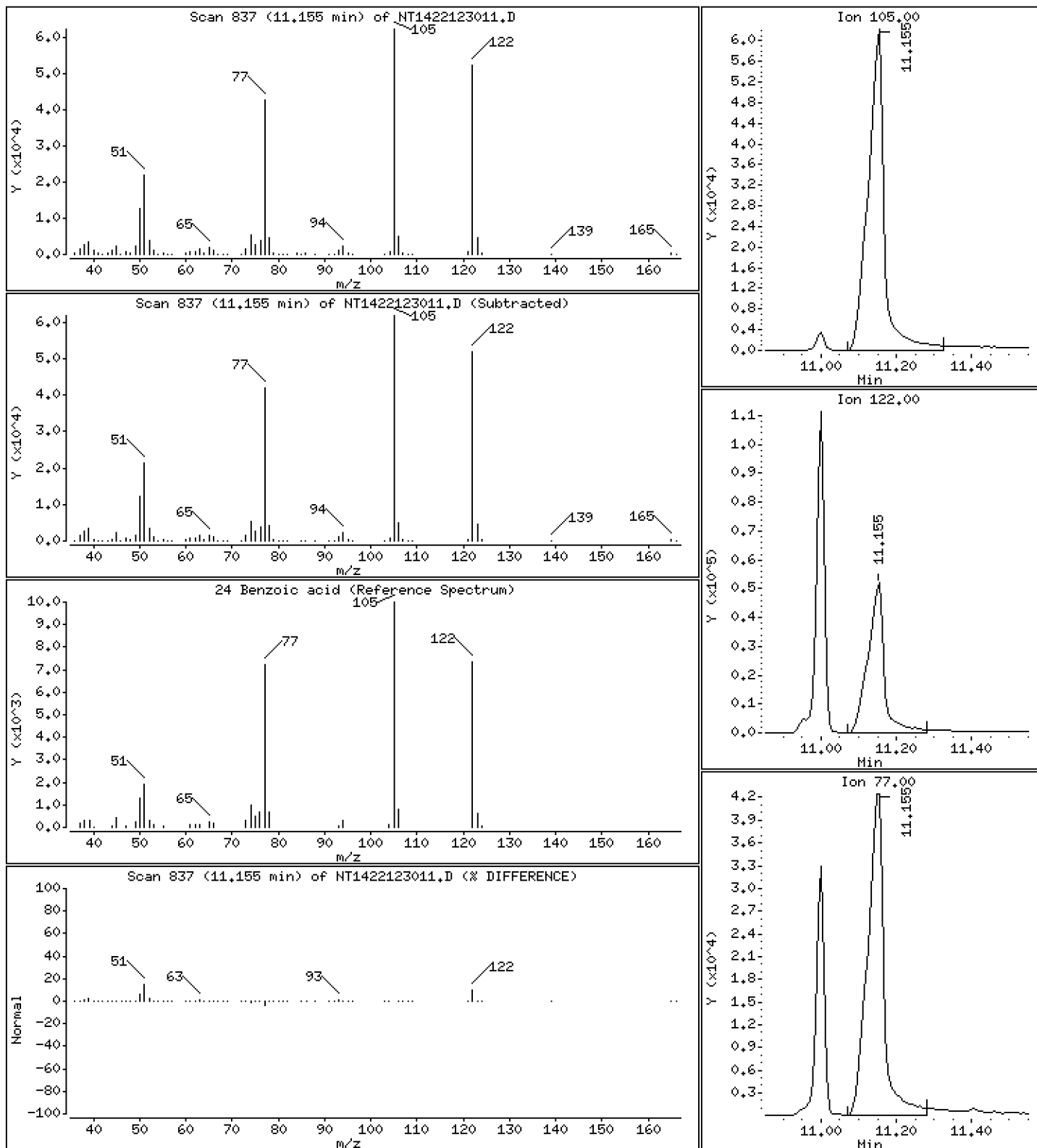
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 6,385 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

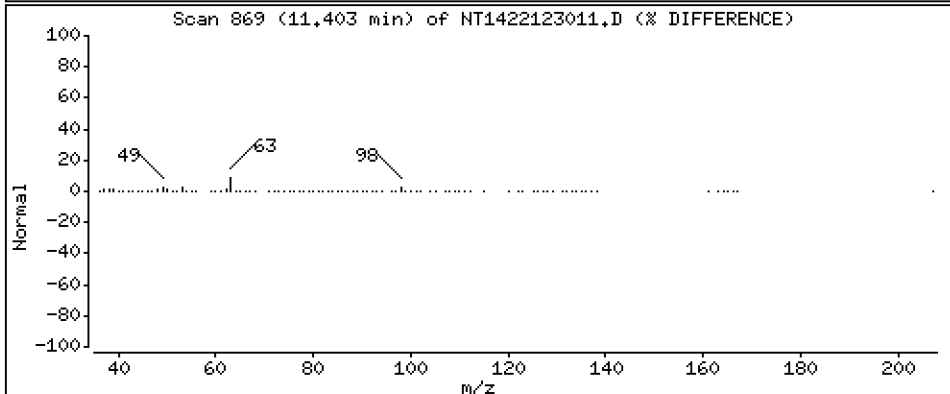
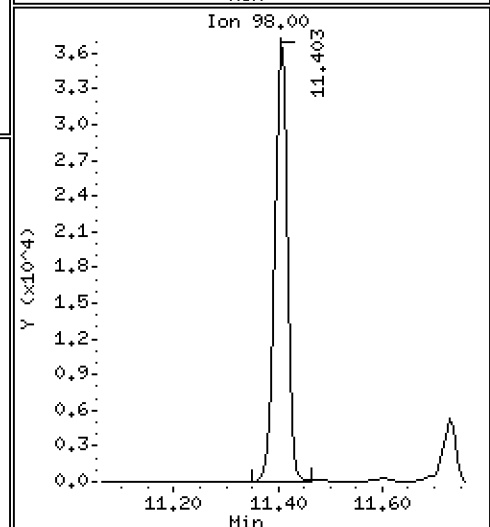
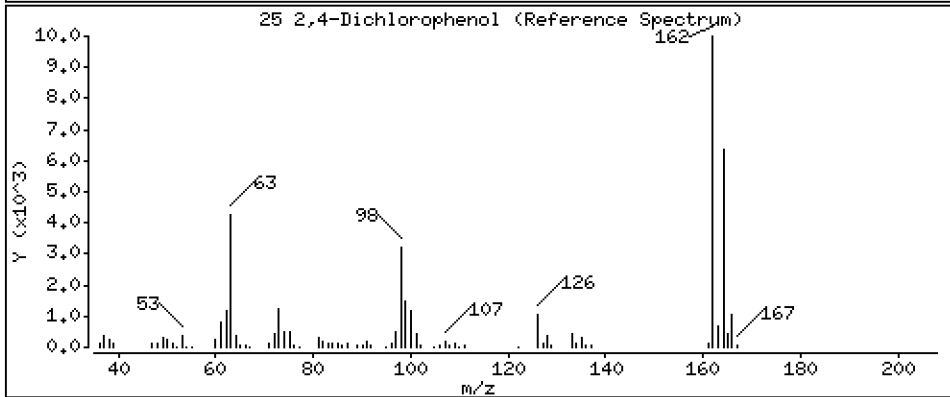
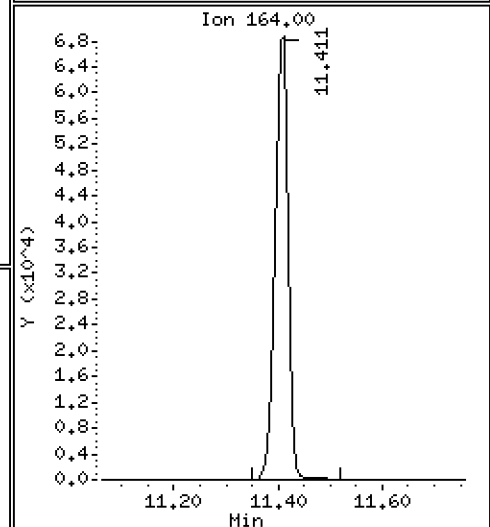
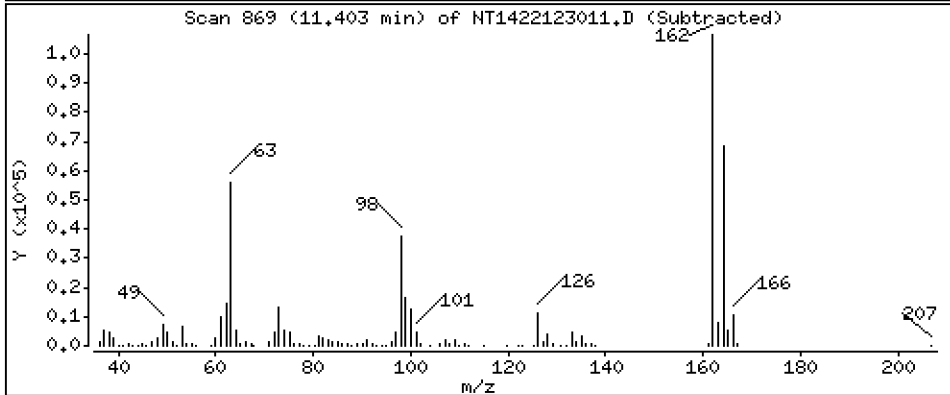
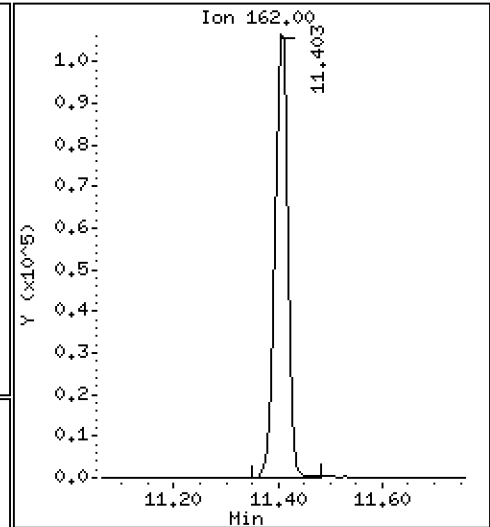
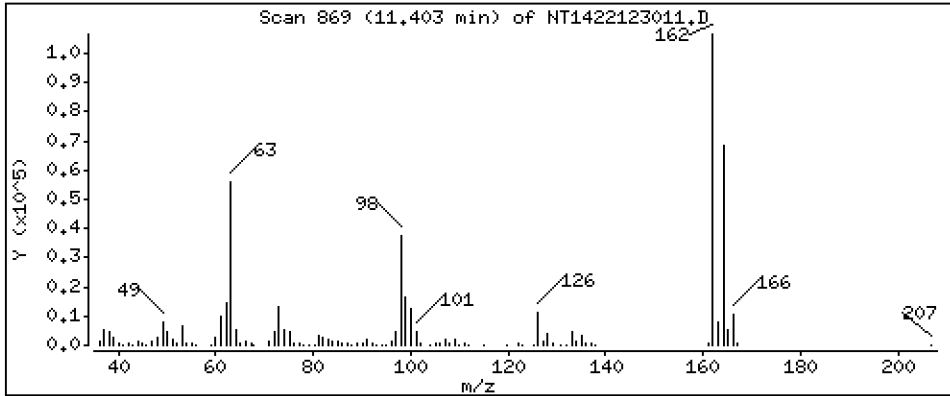
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 4,388 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

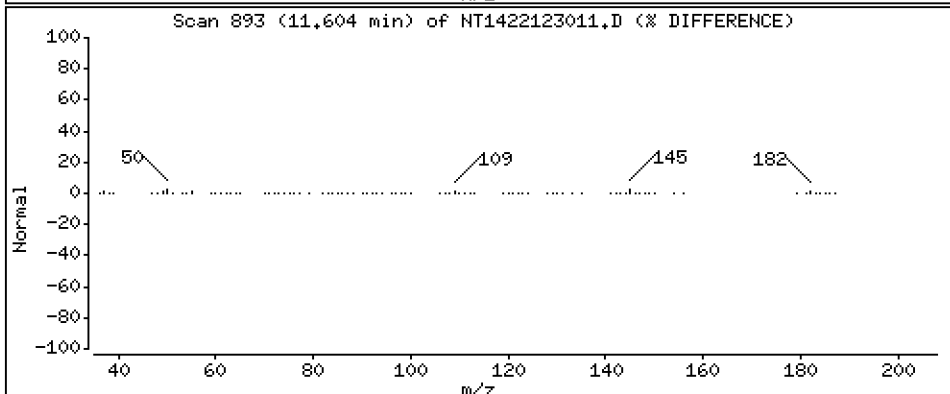
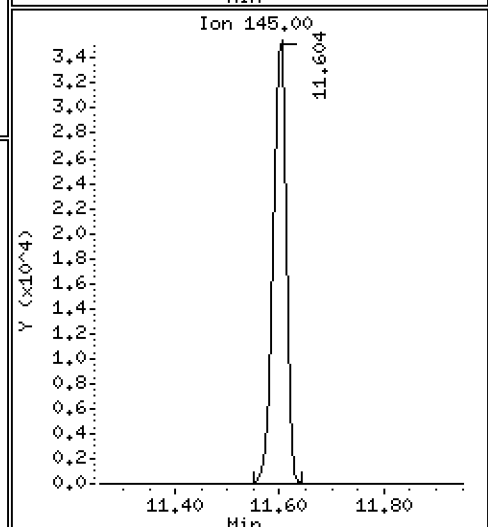
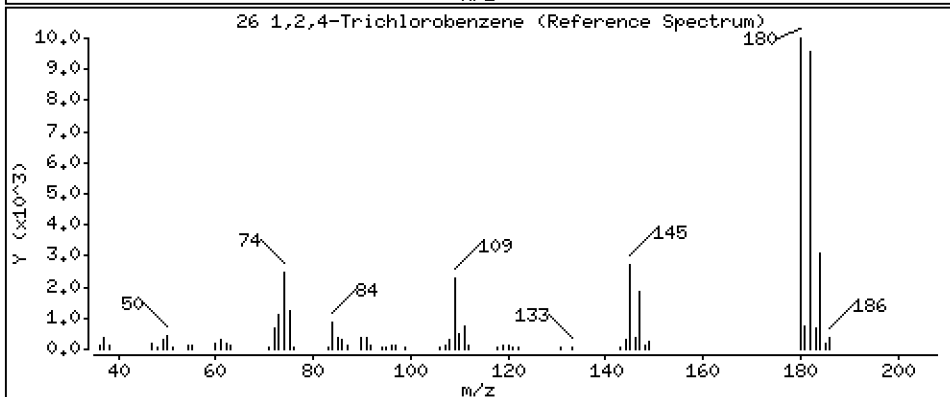
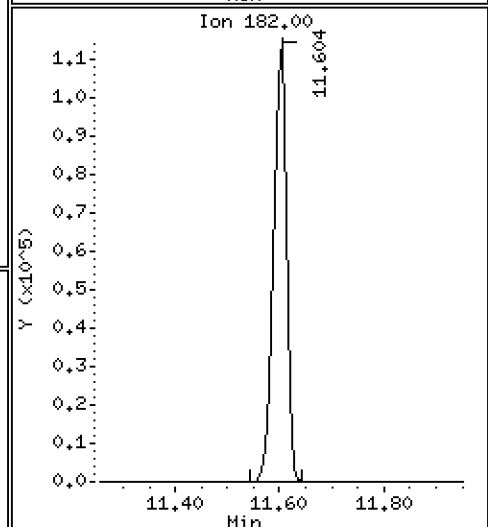
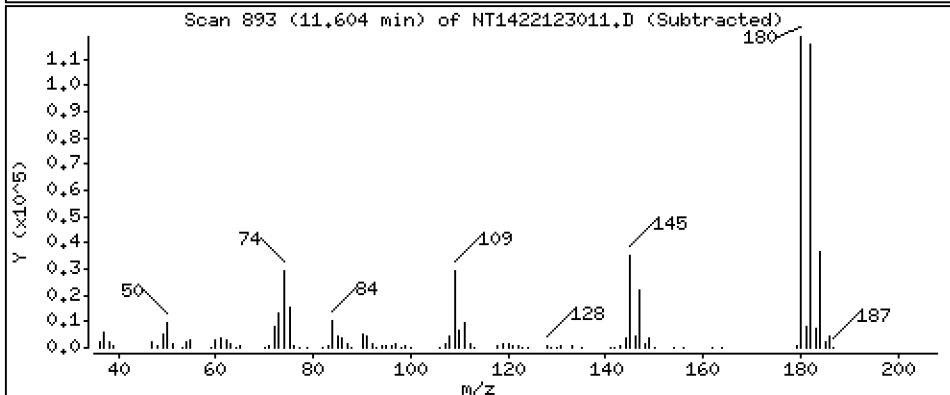
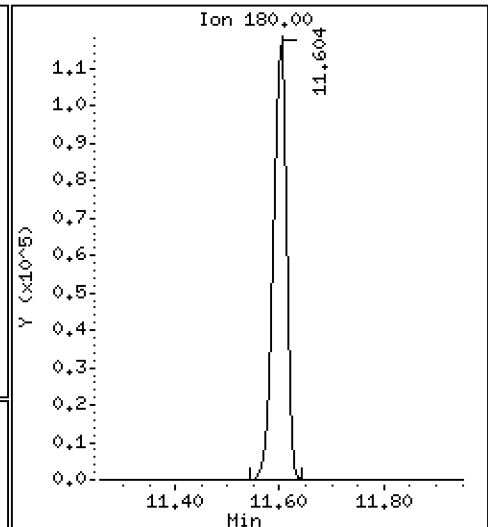
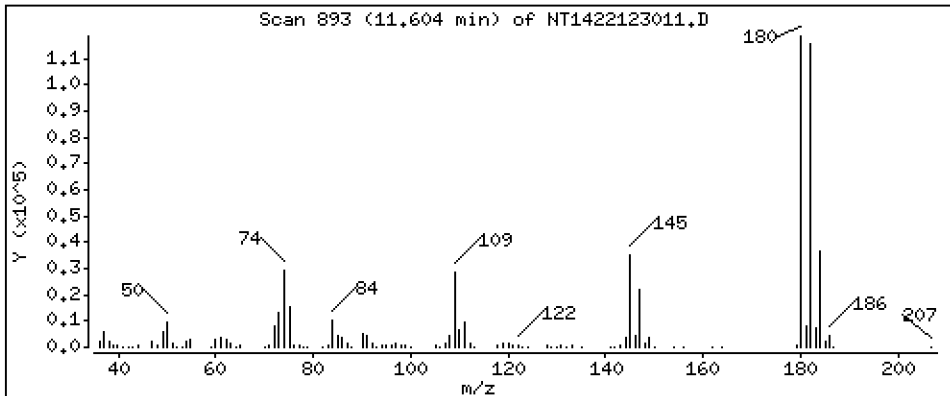
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,574 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

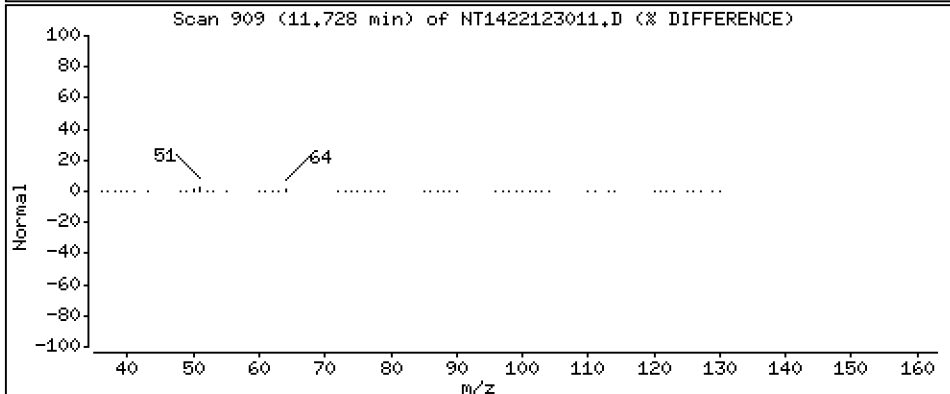
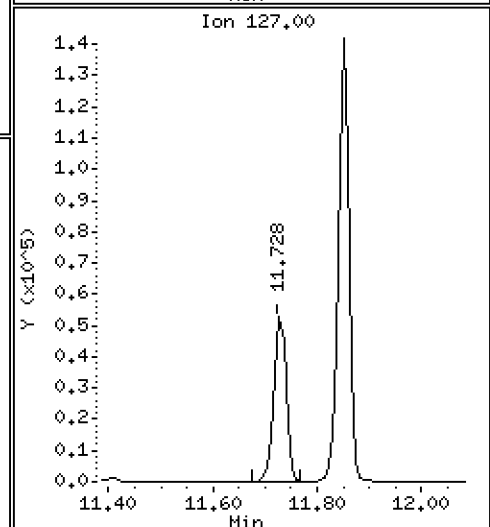
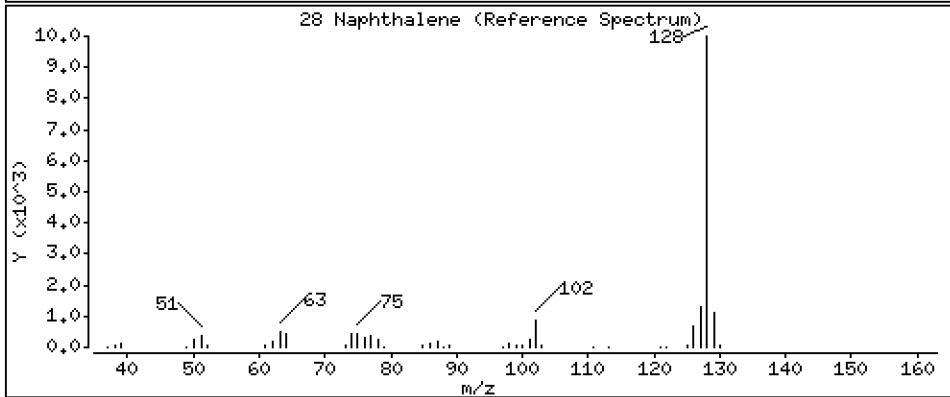
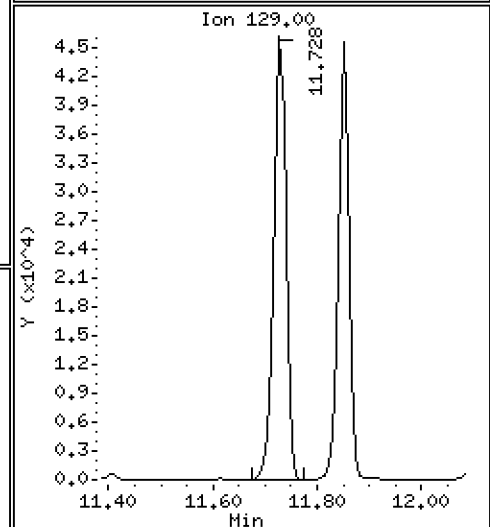
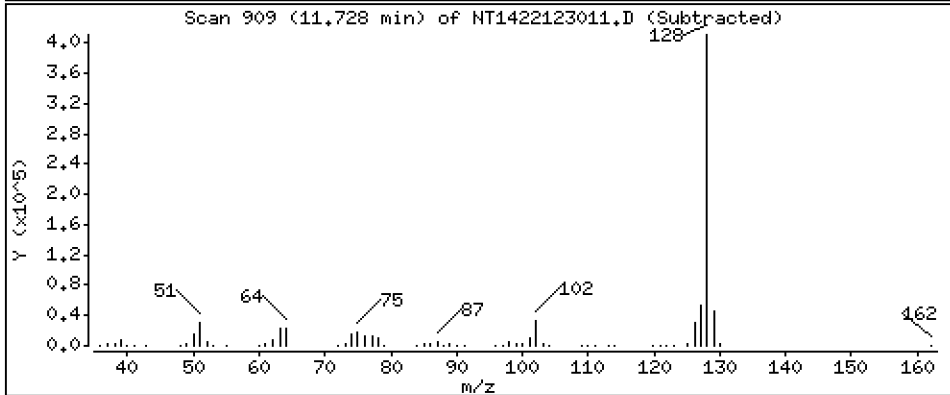
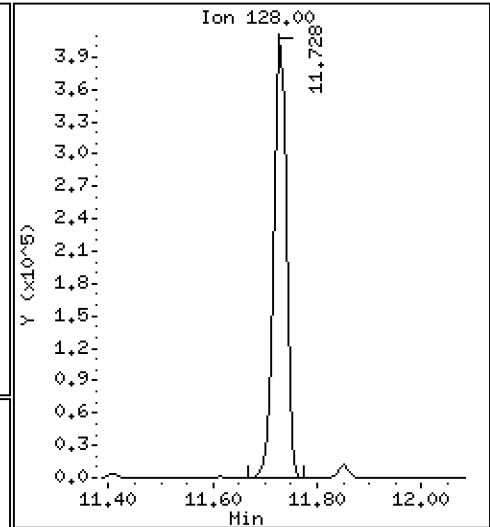
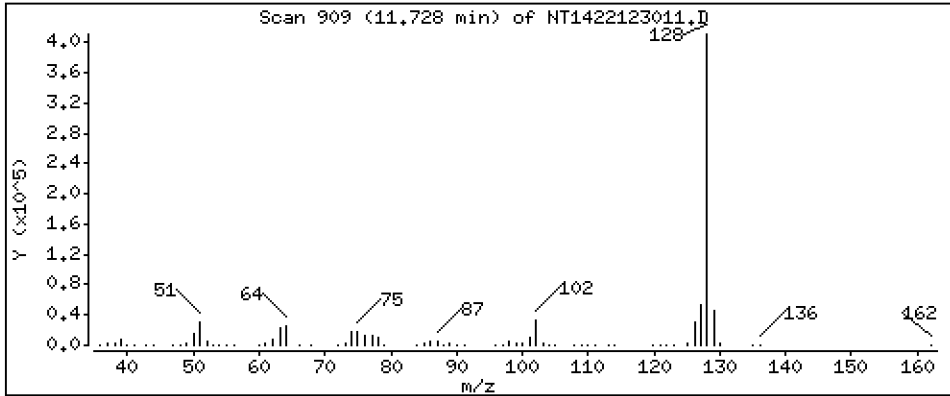
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,812 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

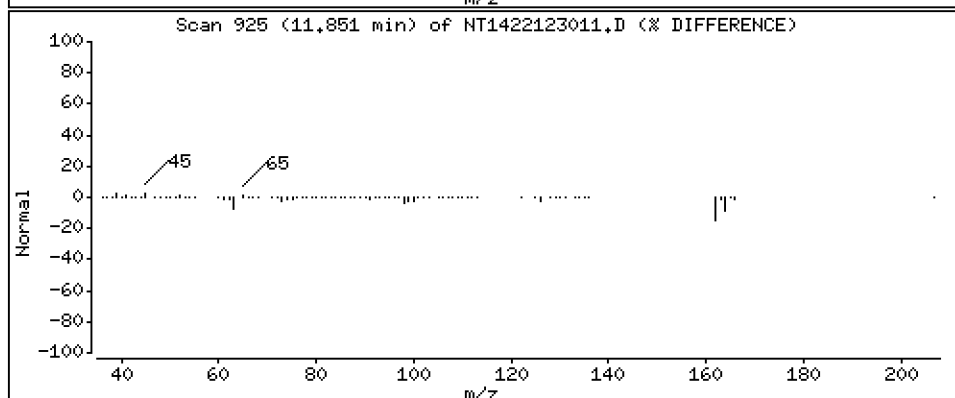
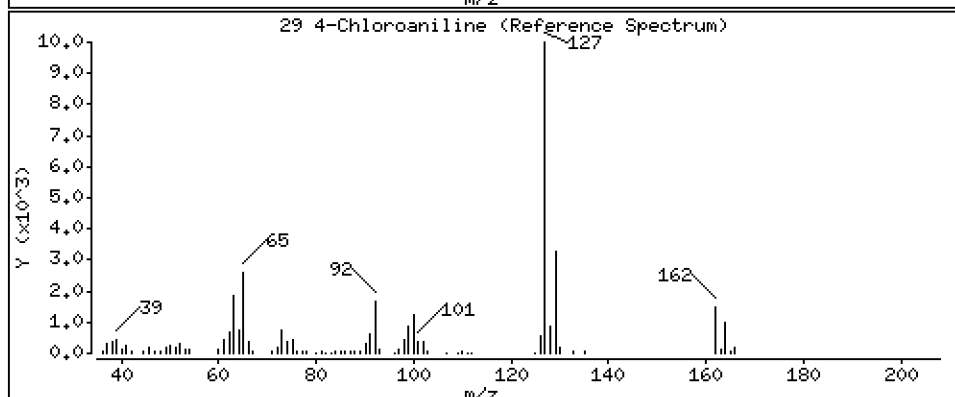
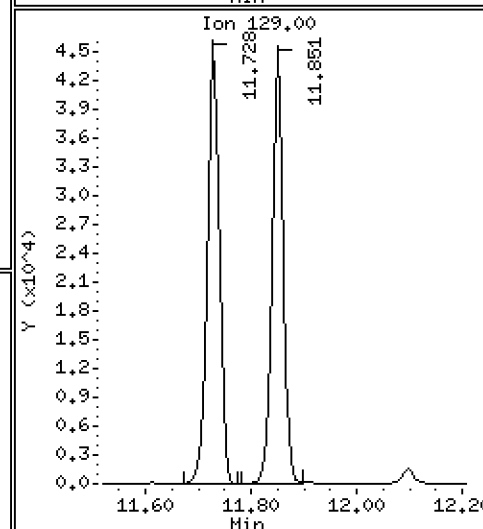
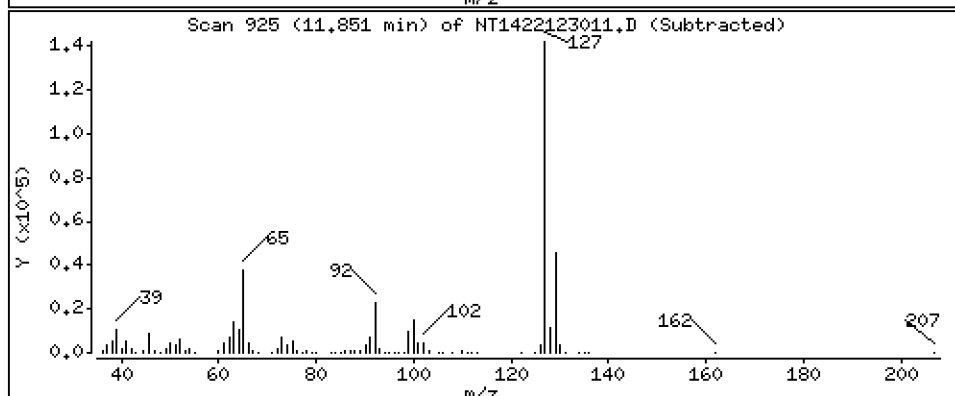
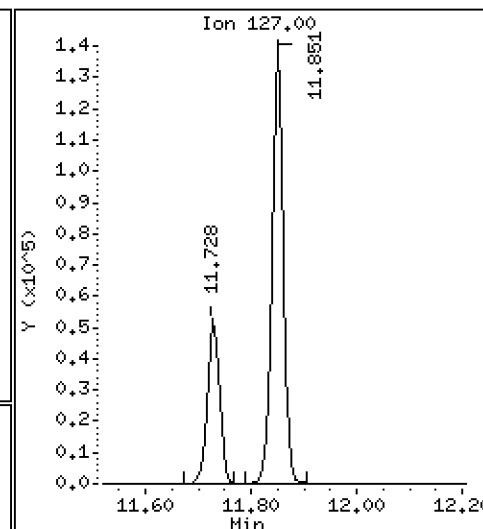
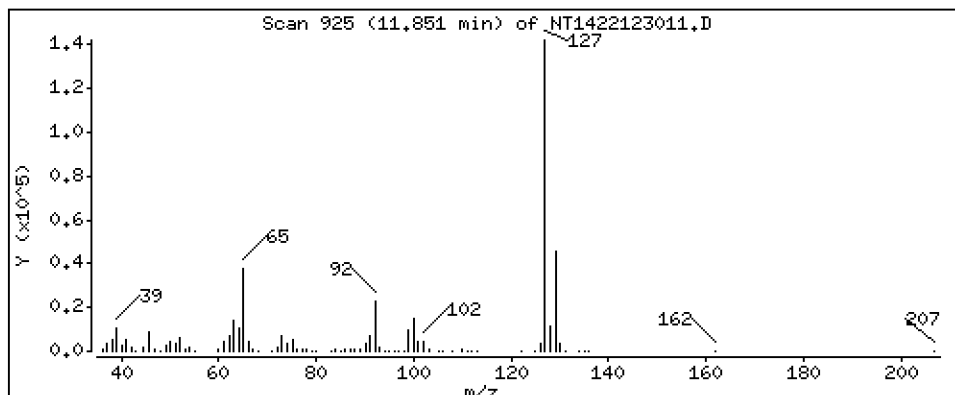
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 3,849 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

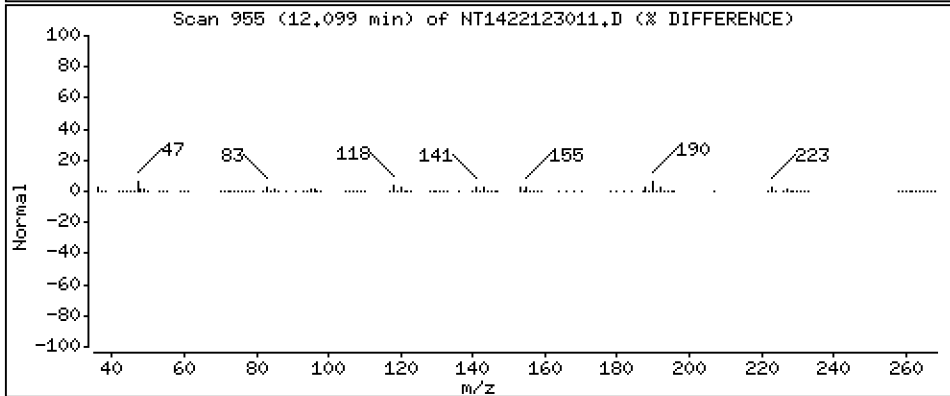
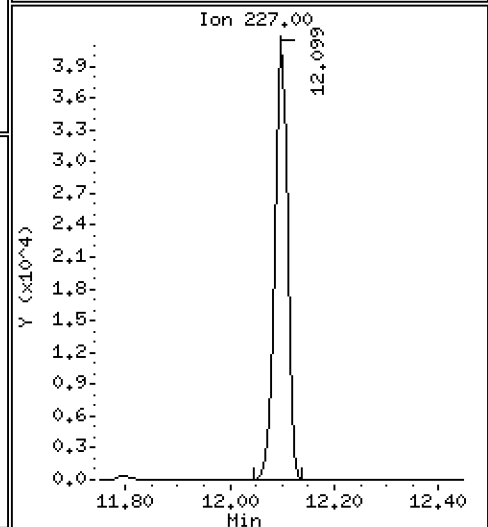
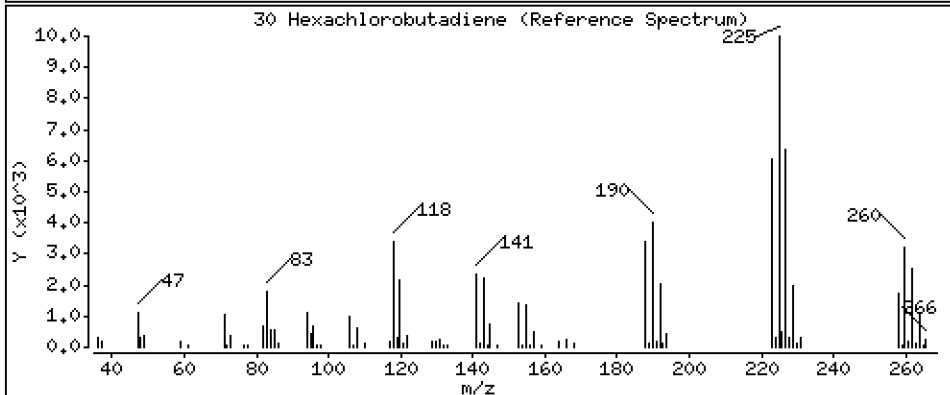
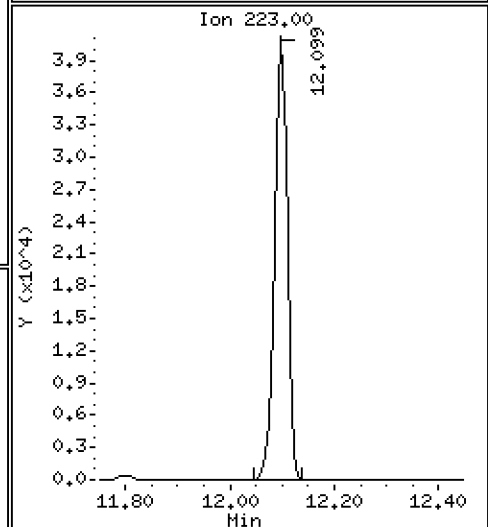
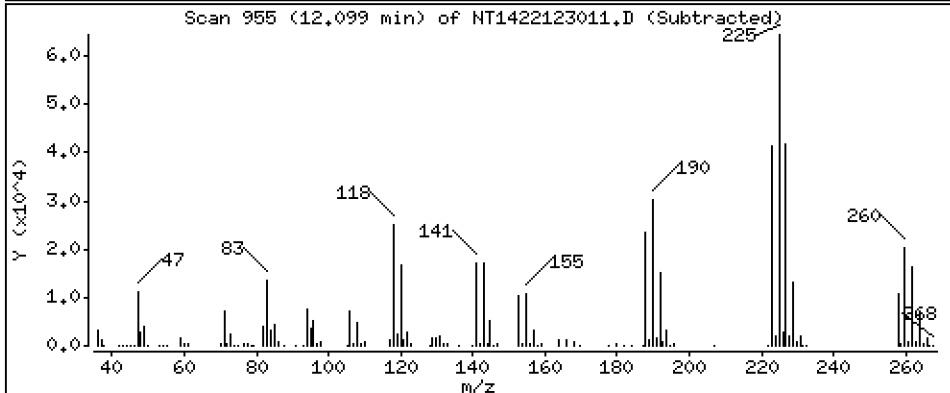
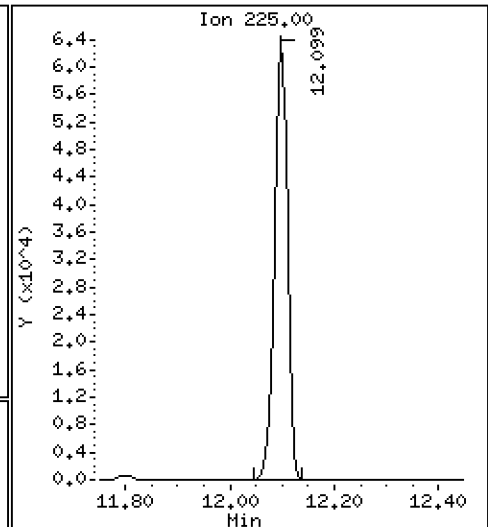
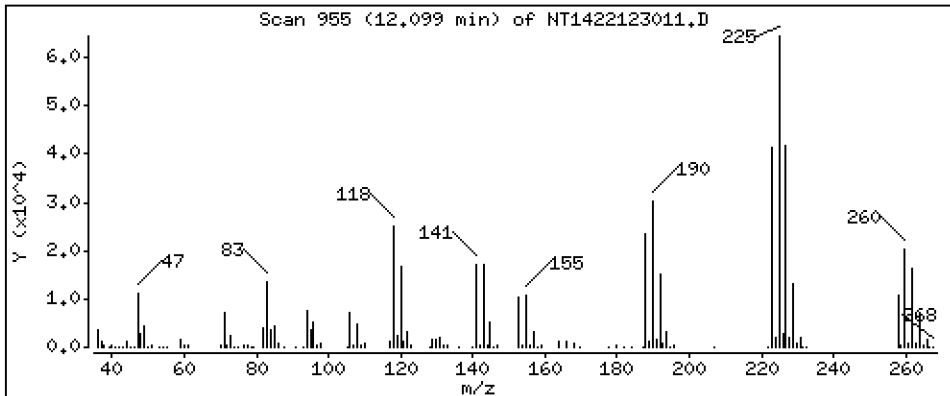
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,823 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

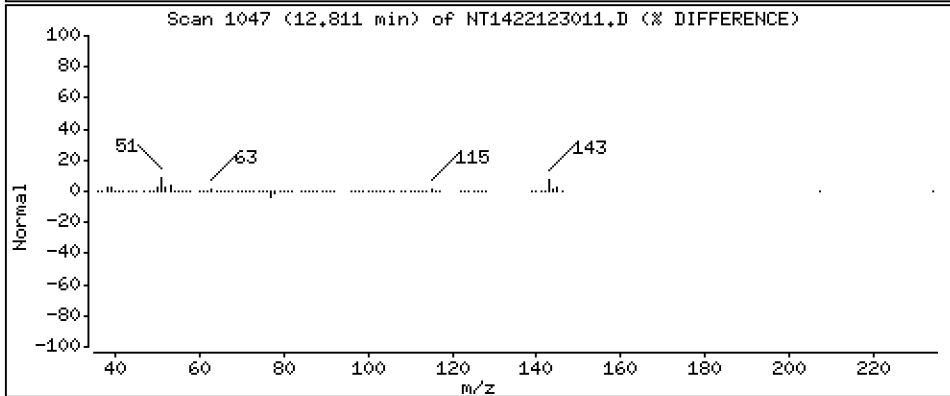
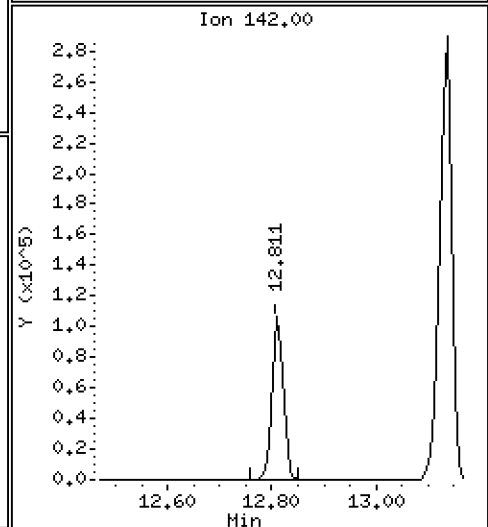
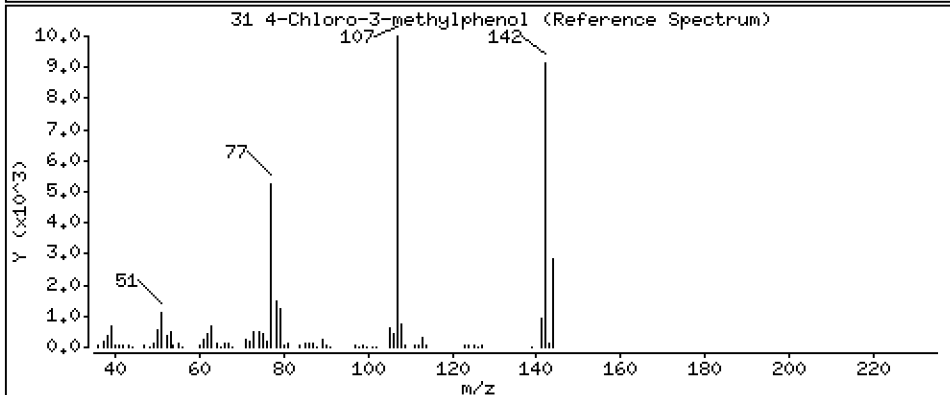
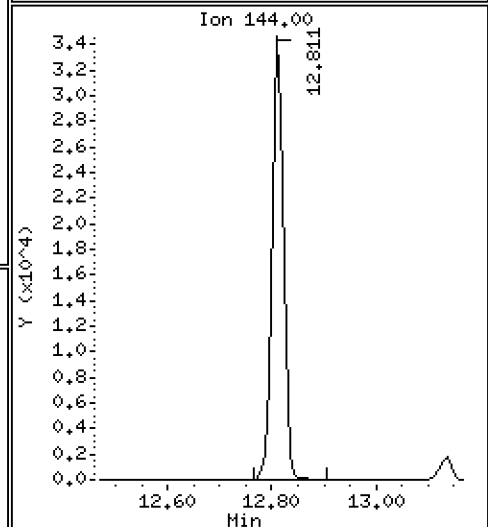
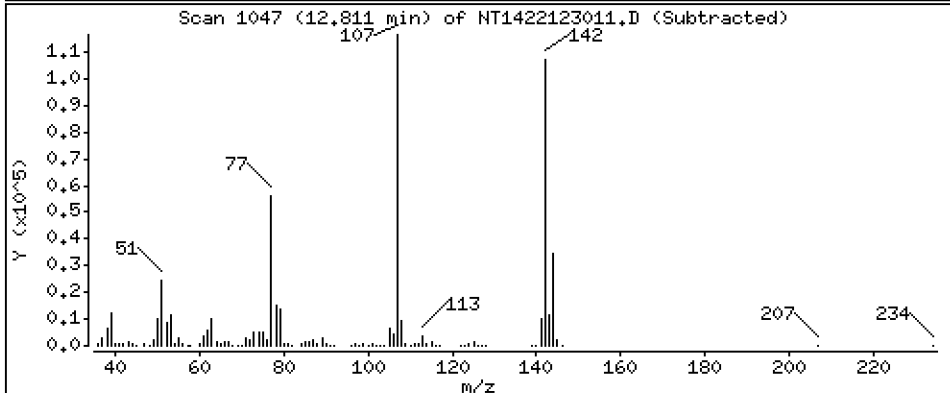
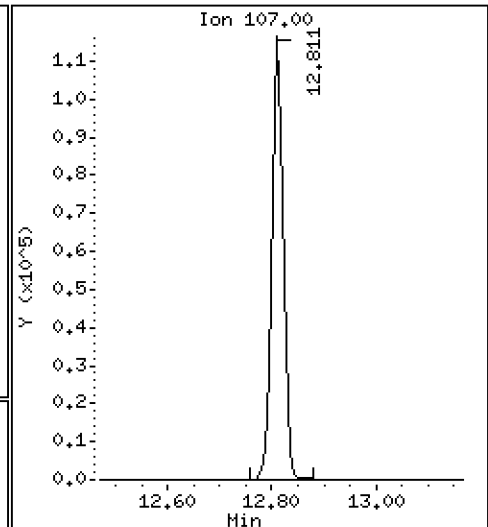
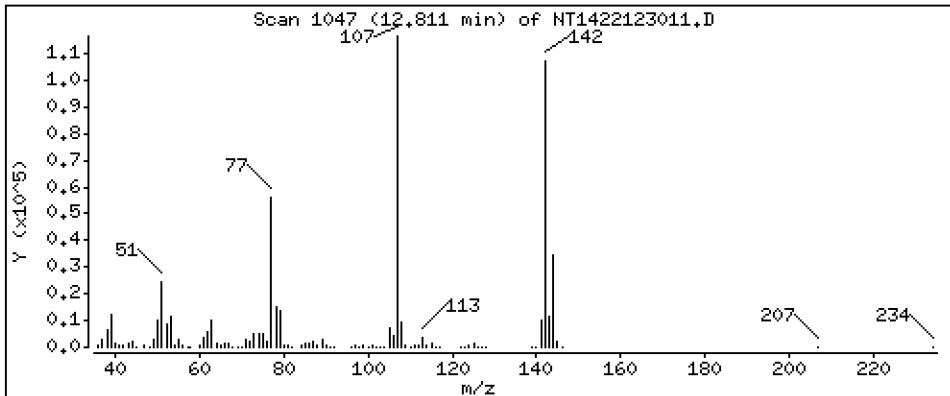
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 4,522 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

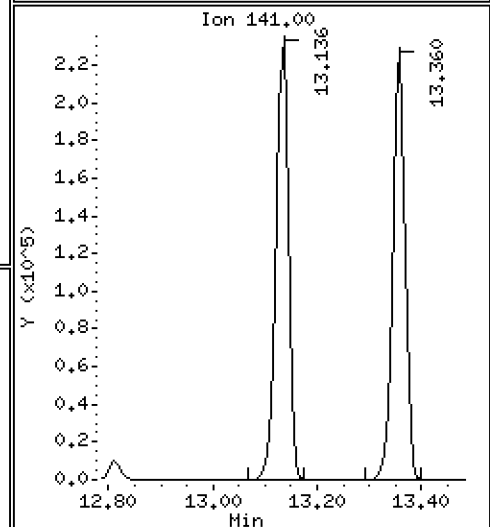
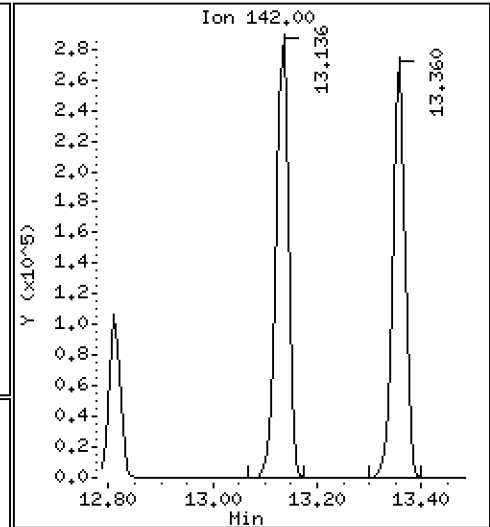
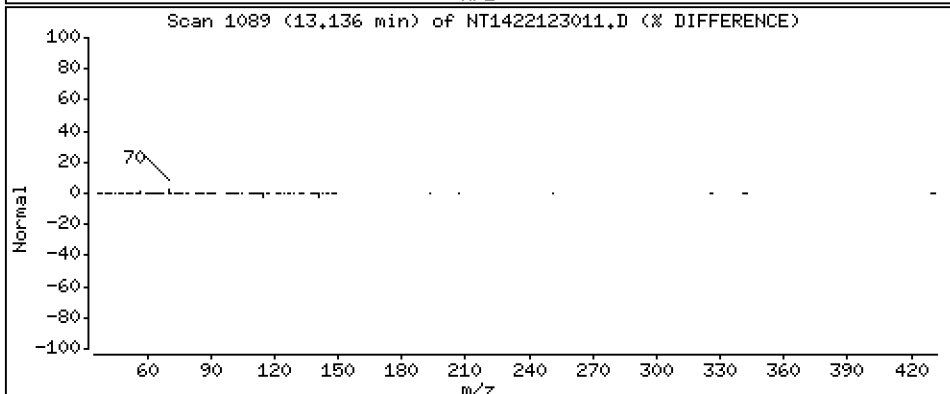
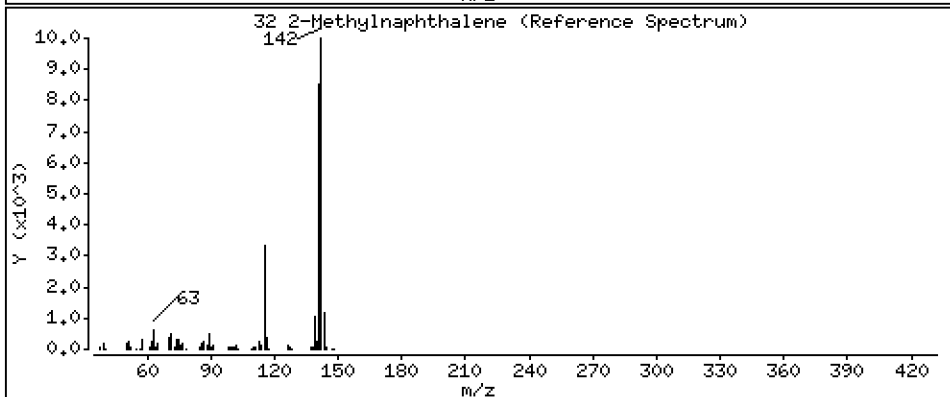
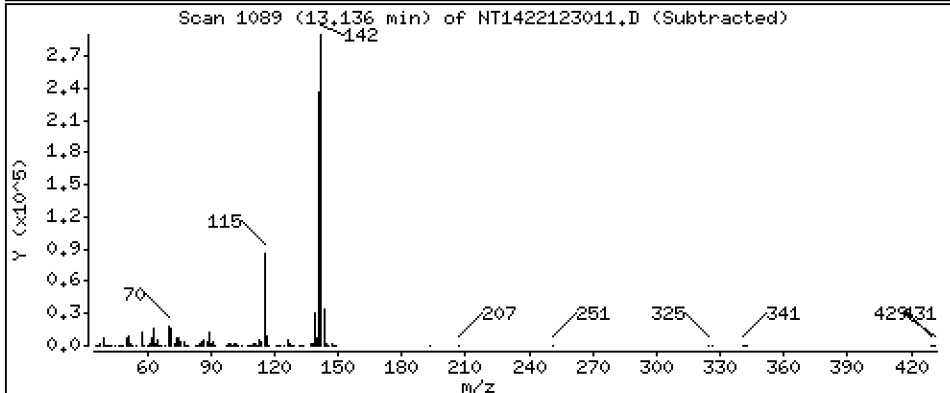
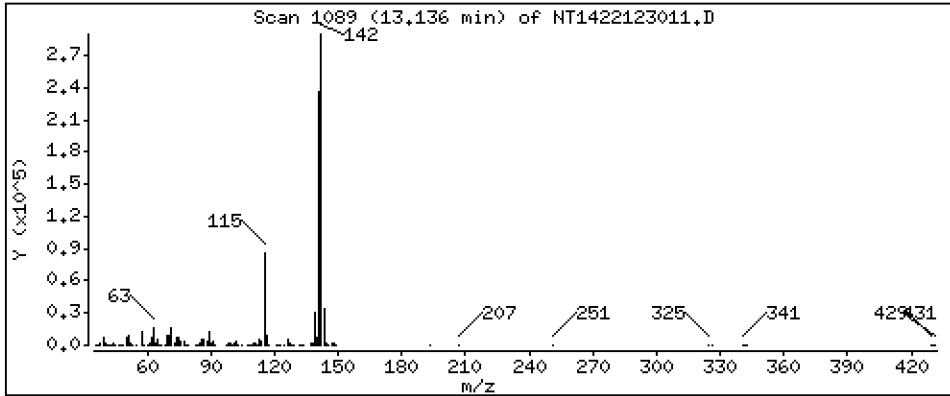
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,616 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

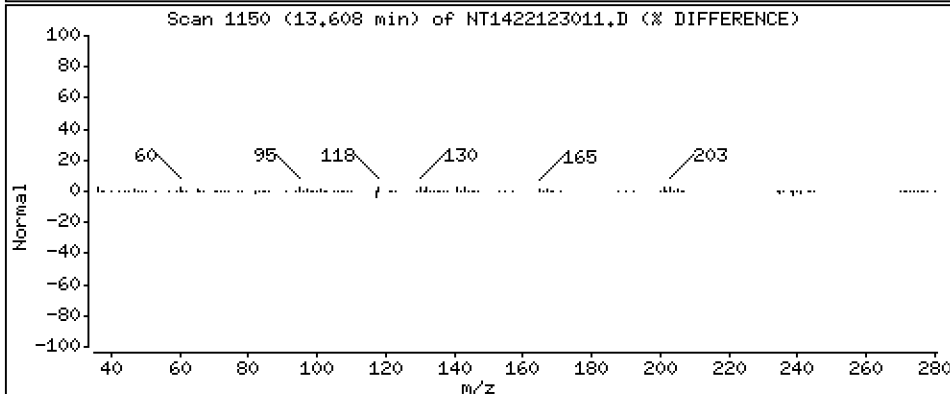
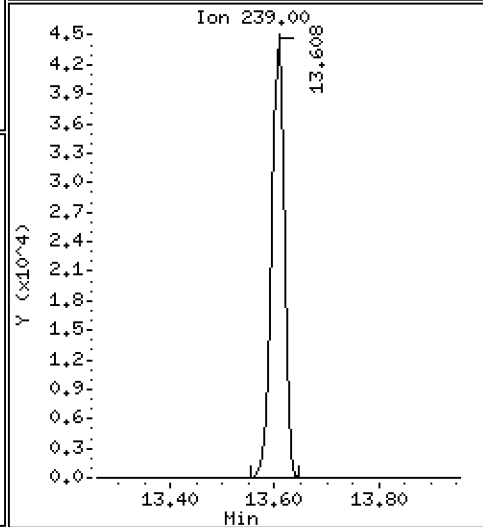
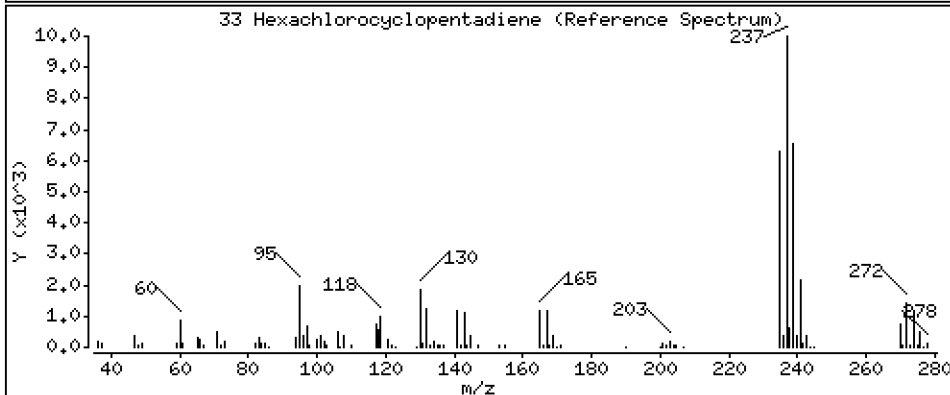
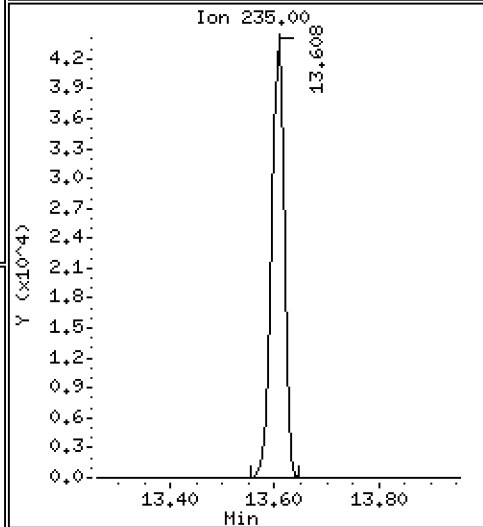
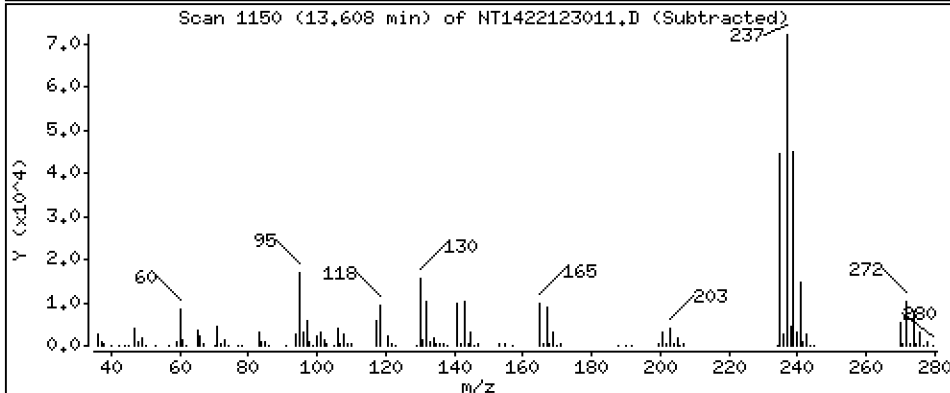
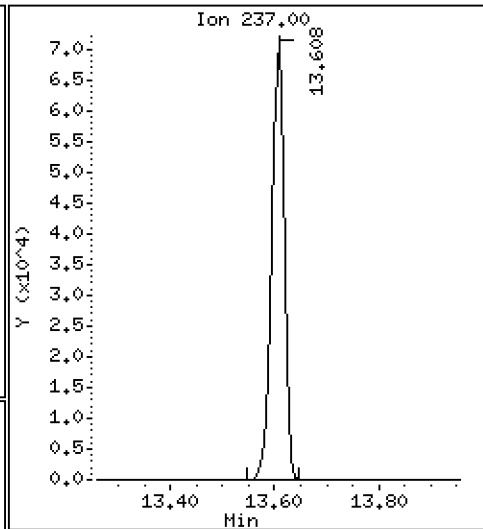
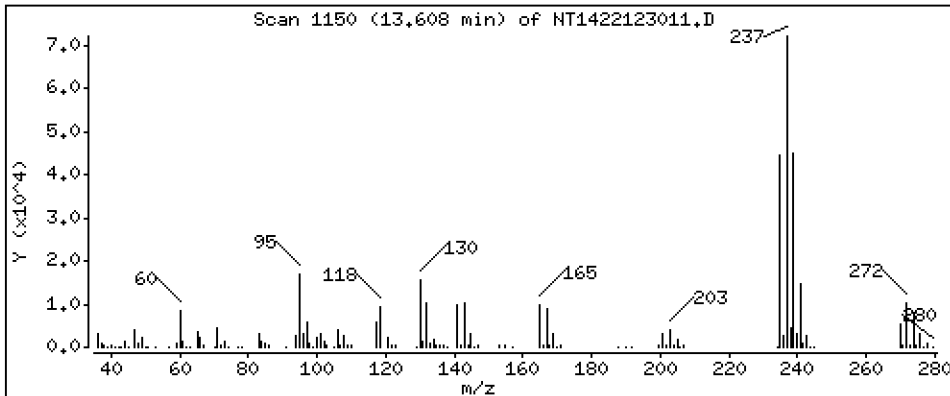
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 5,081 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

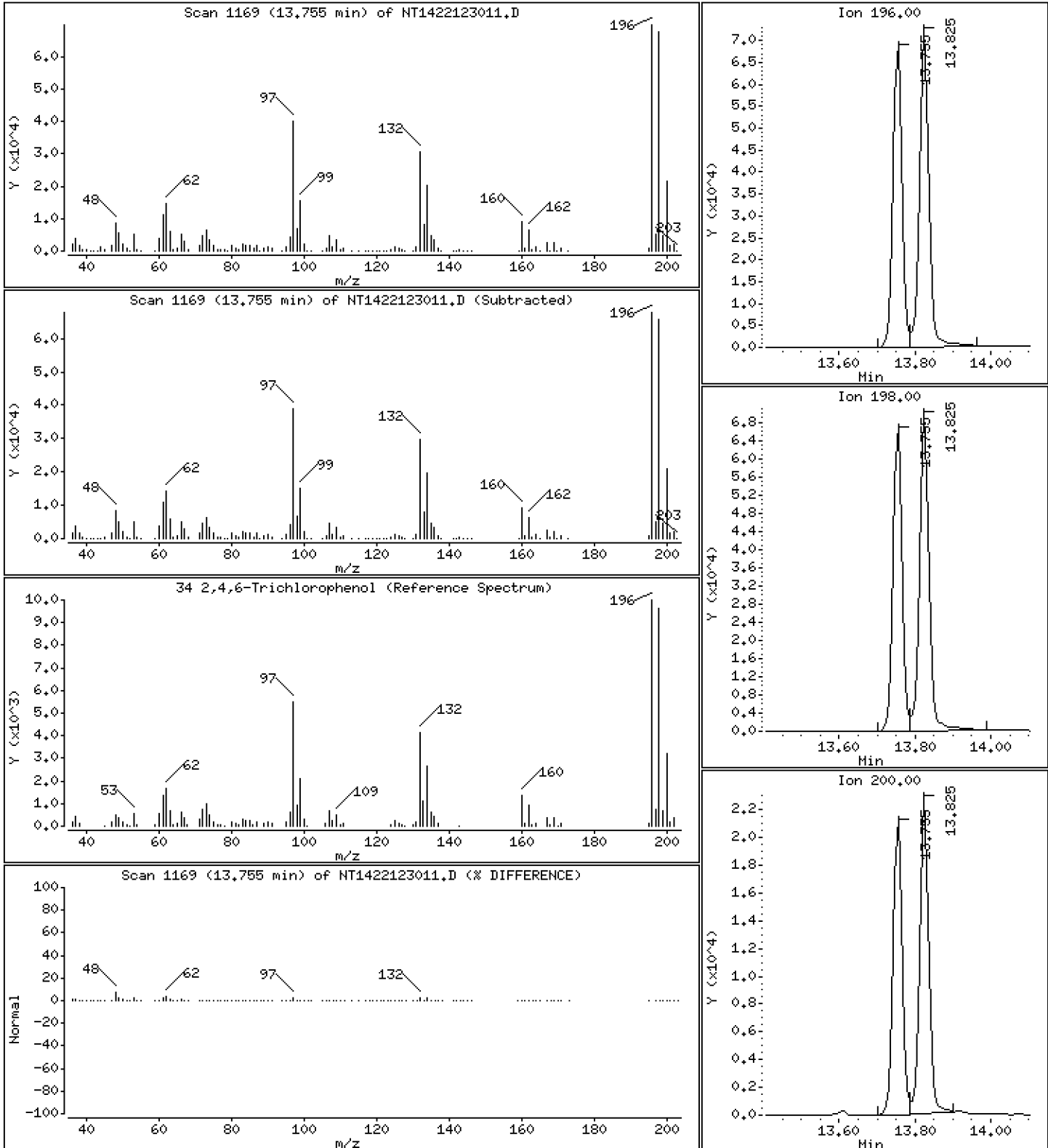
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 4,407 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

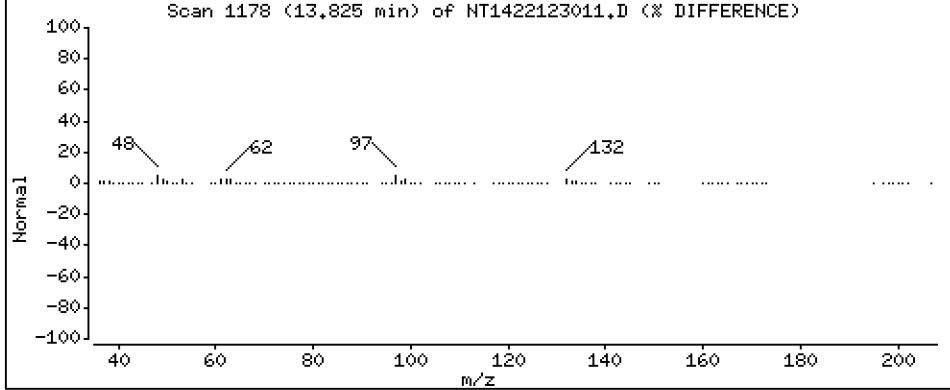
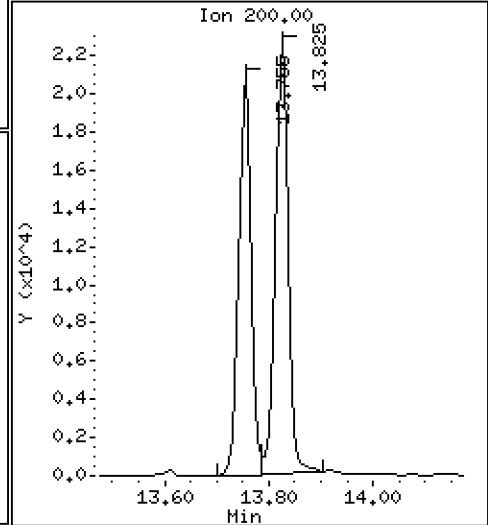
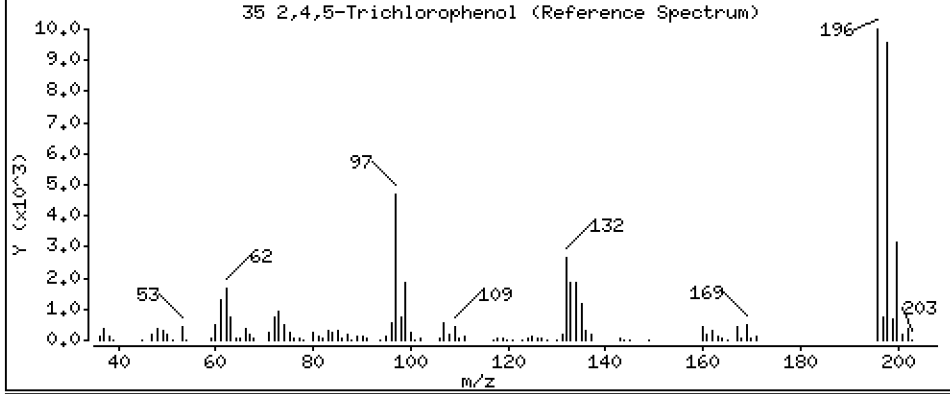
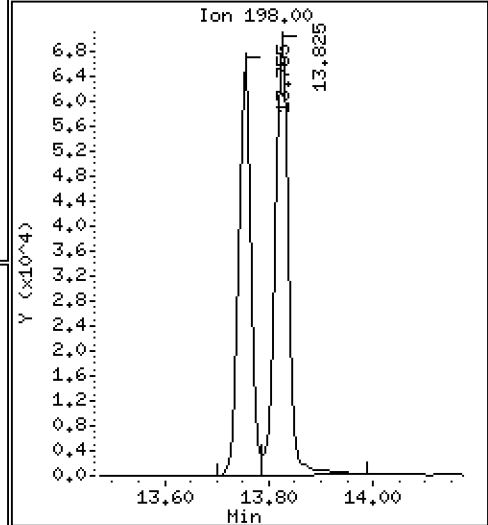
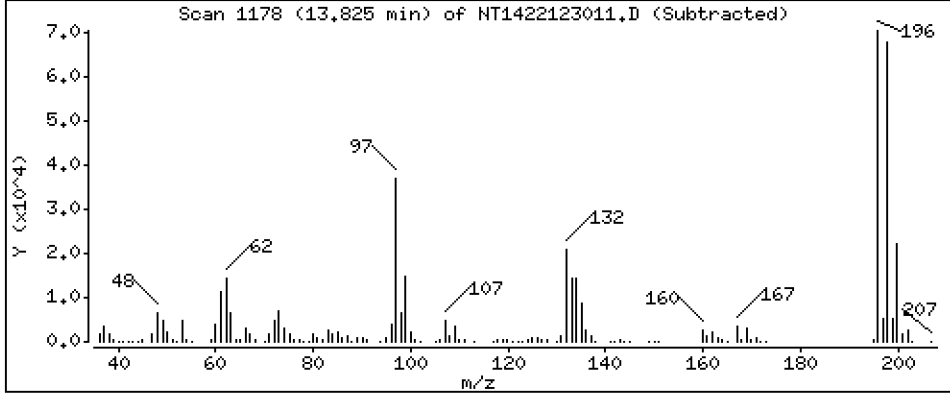
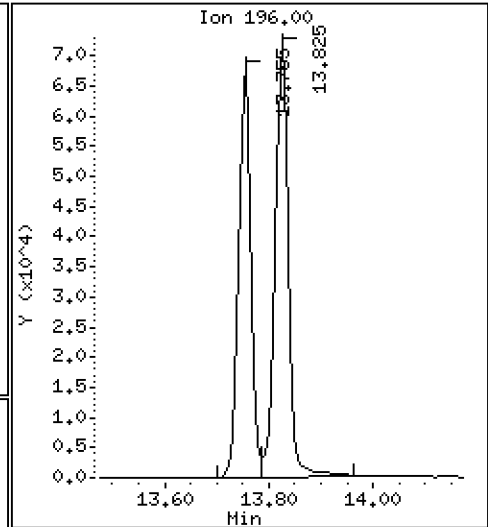
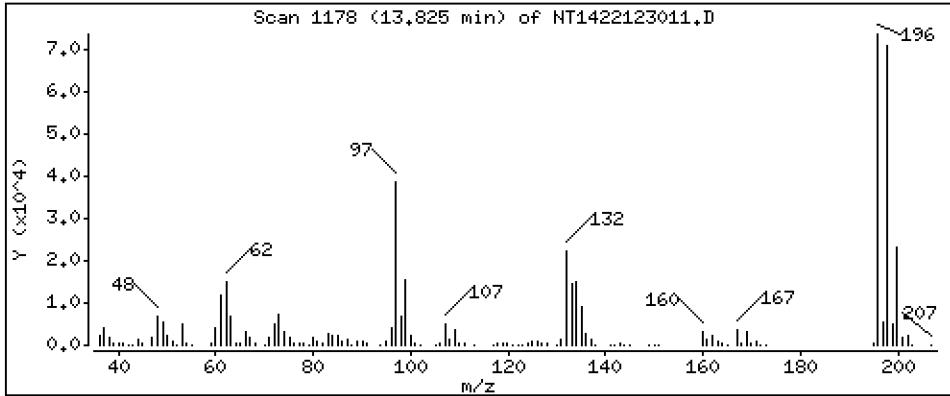
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 4,278 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

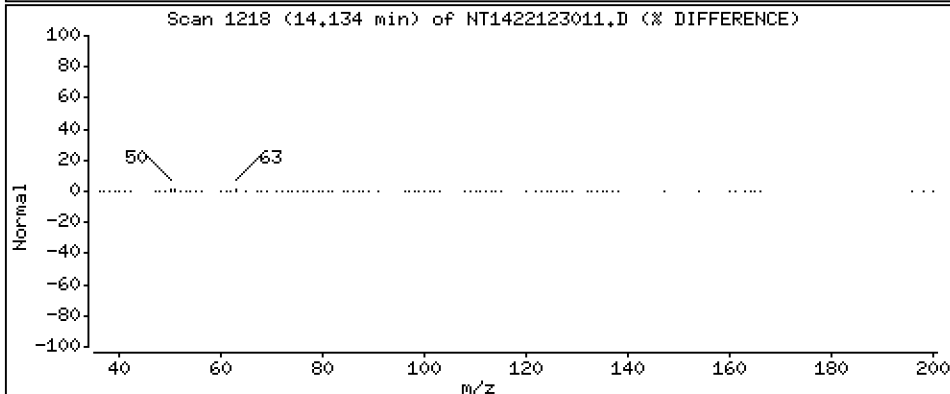
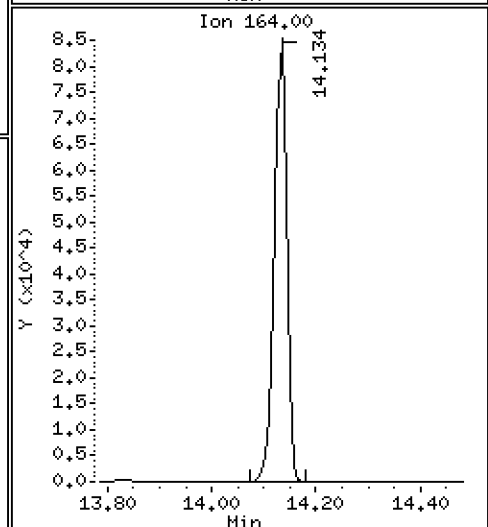
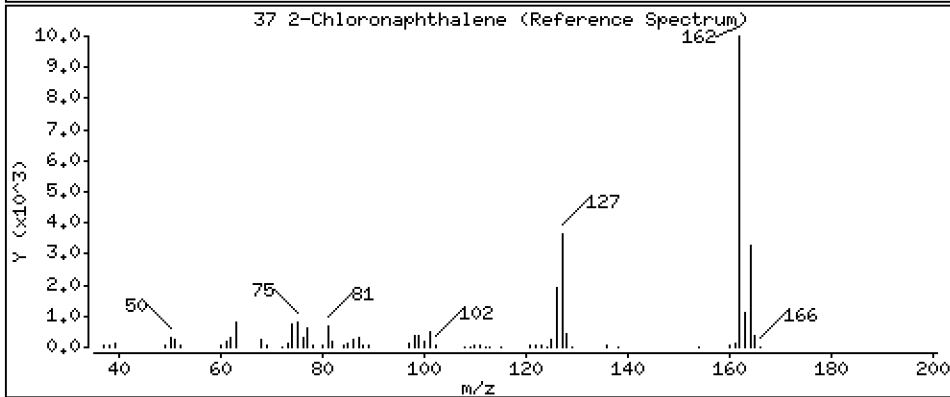
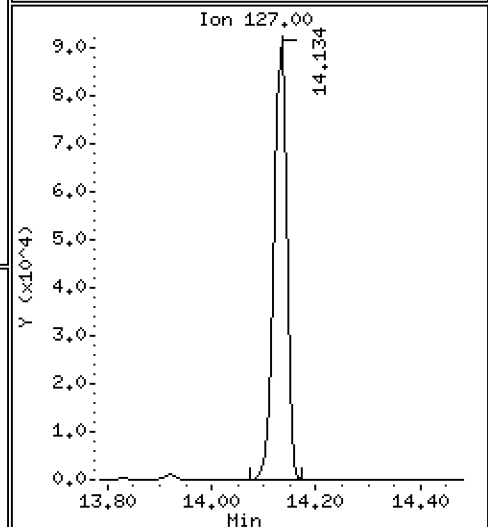
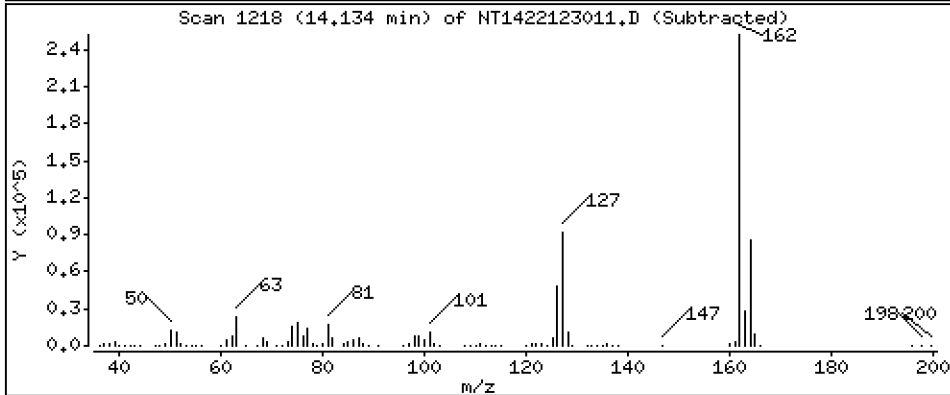
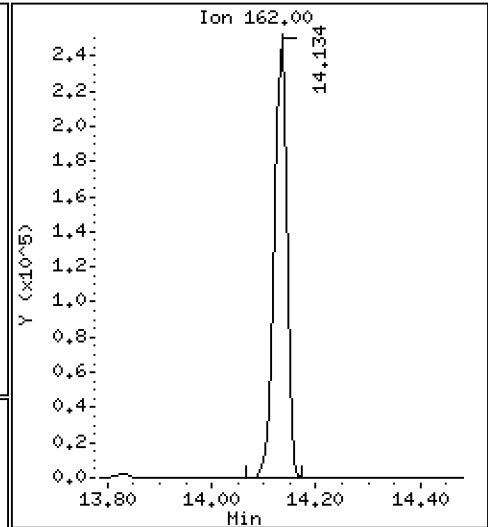
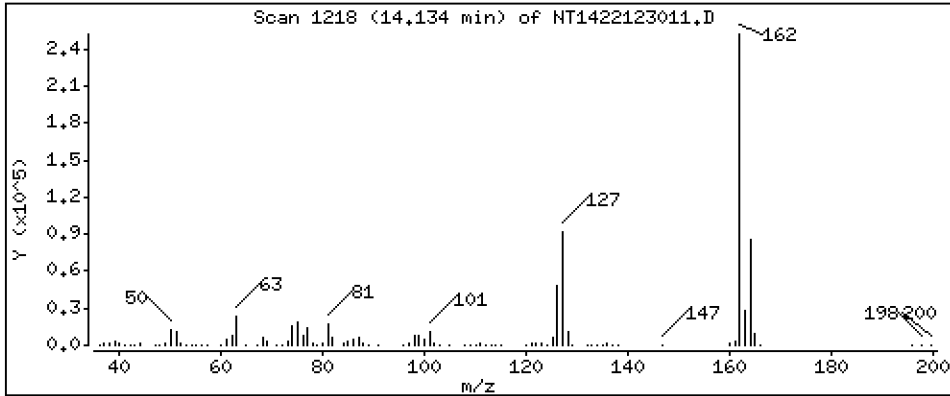
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,754 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

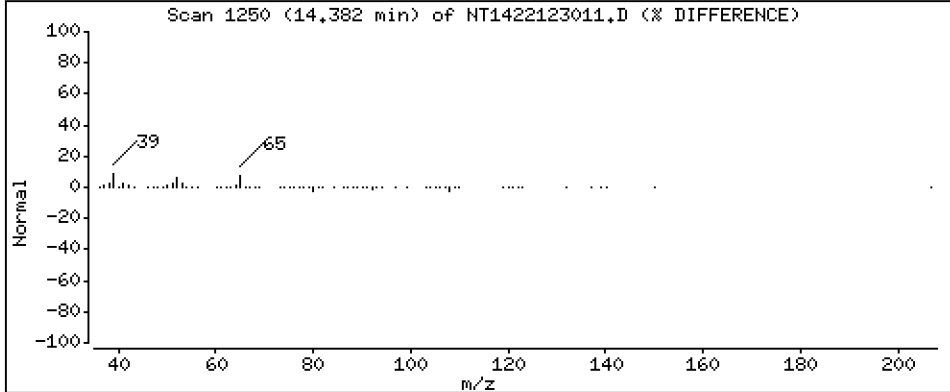
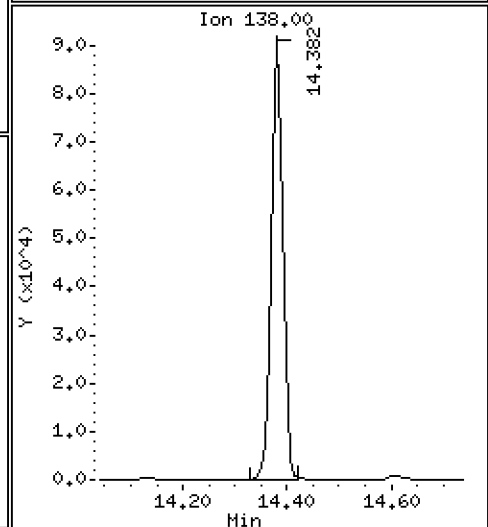
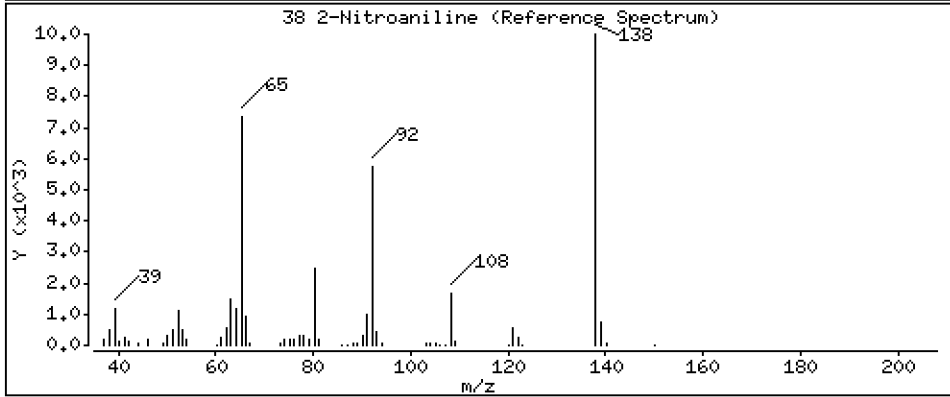
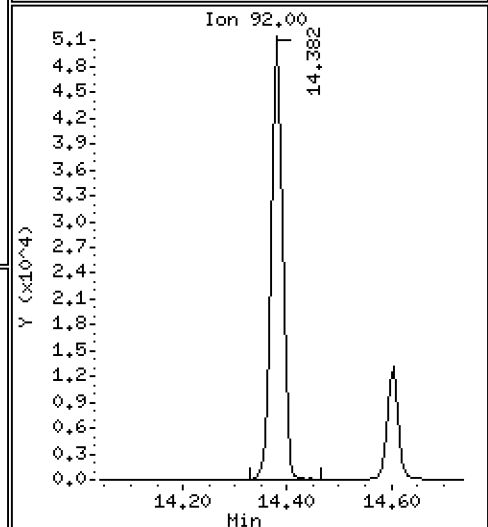
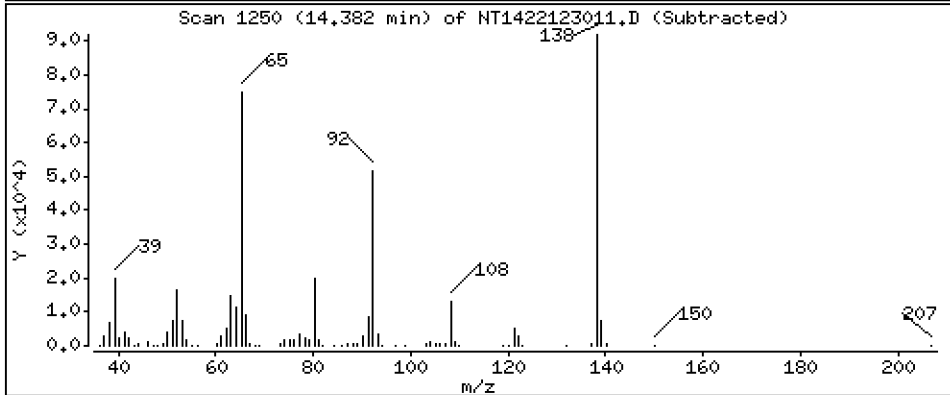
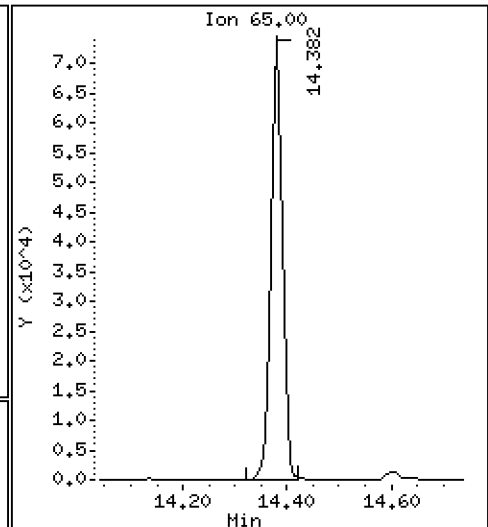
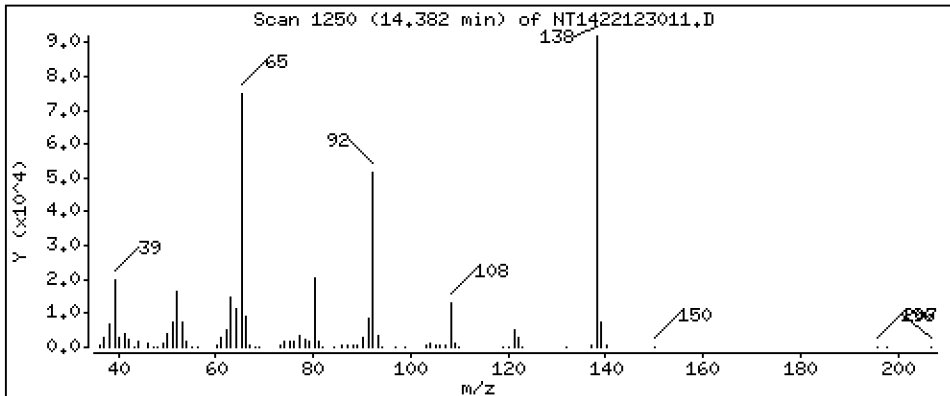
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 5,043 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

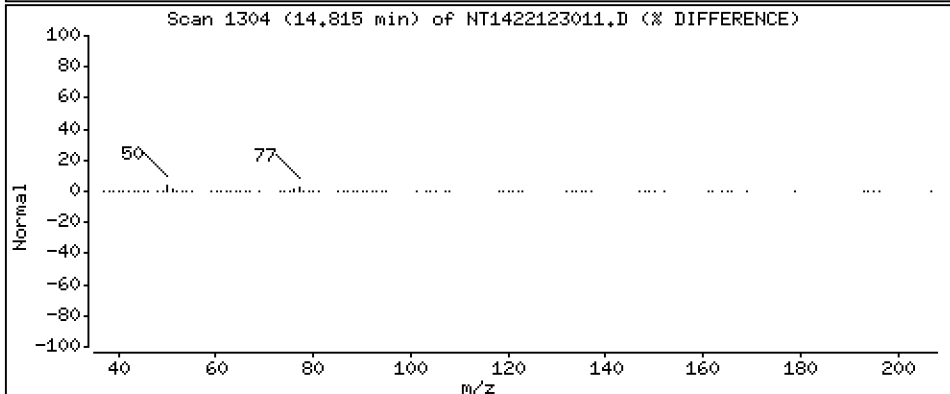
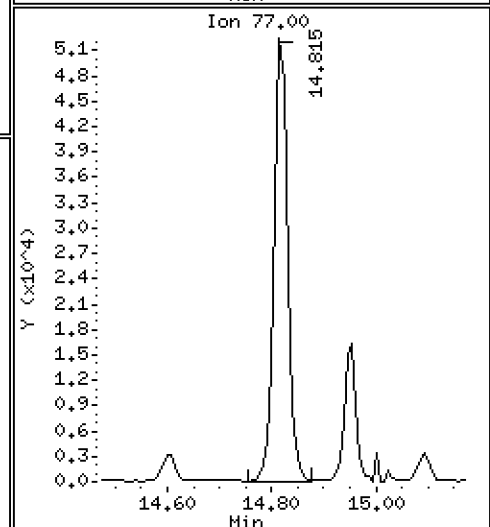
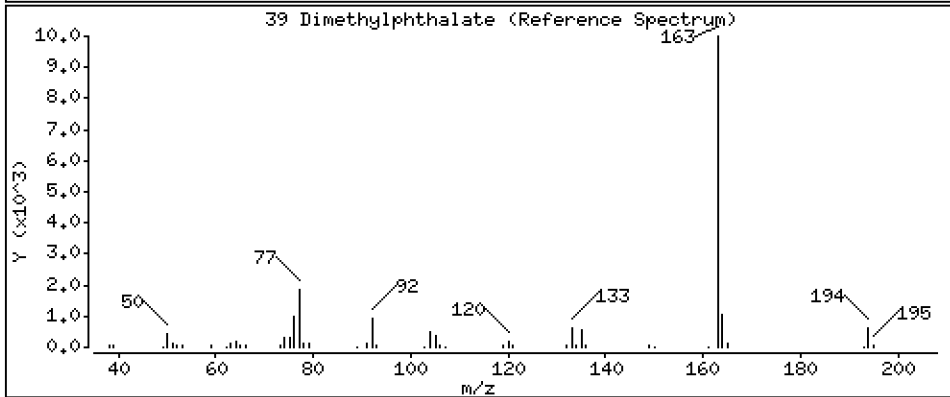
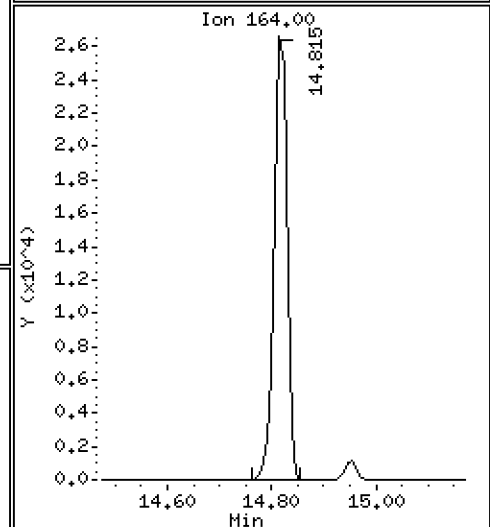
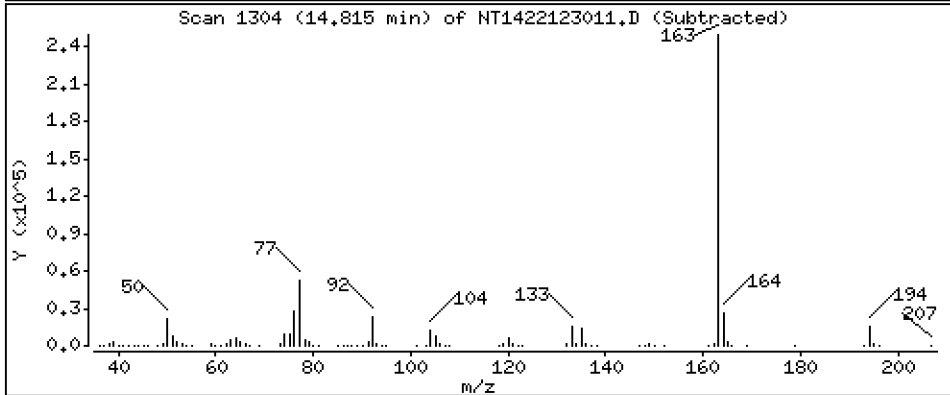
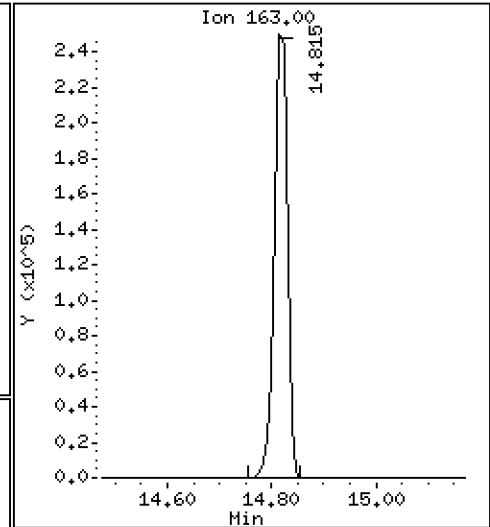
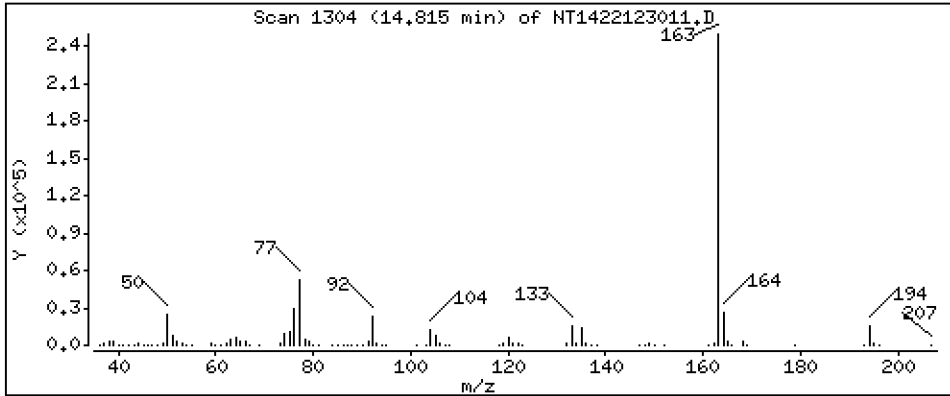
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 5,023 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

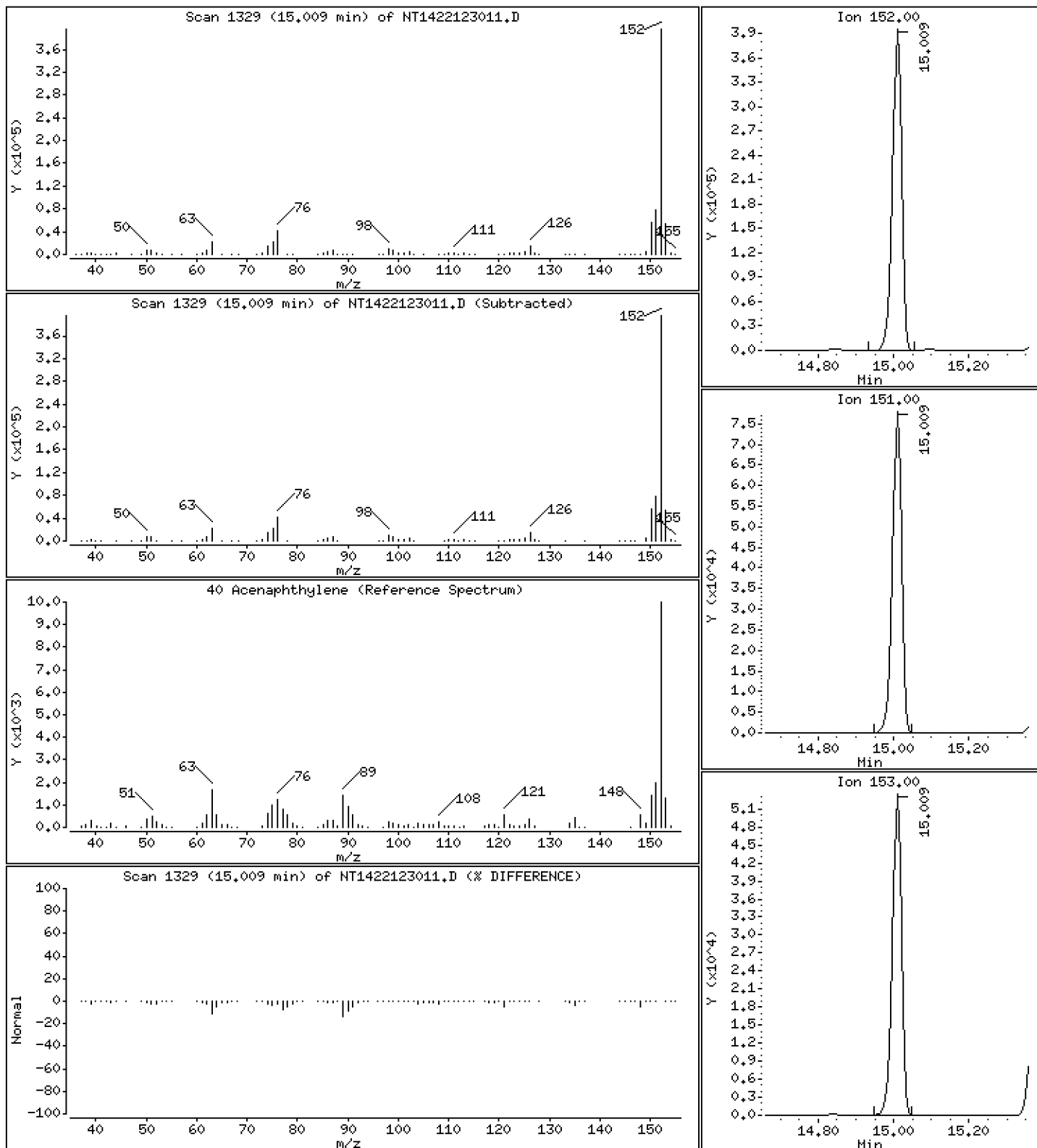
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,000 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

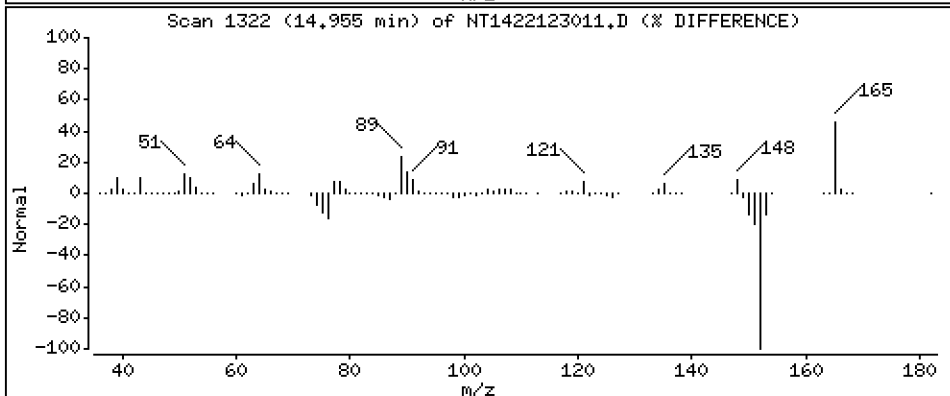
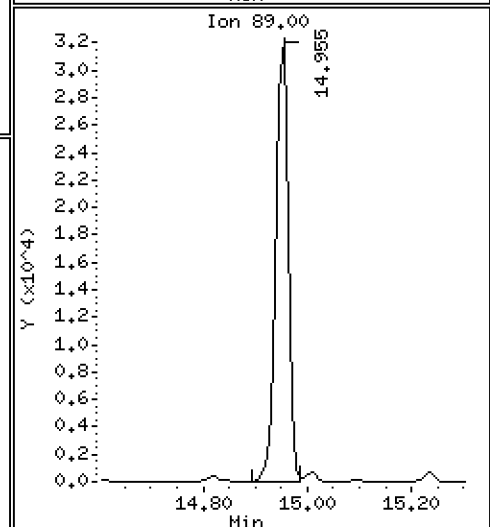
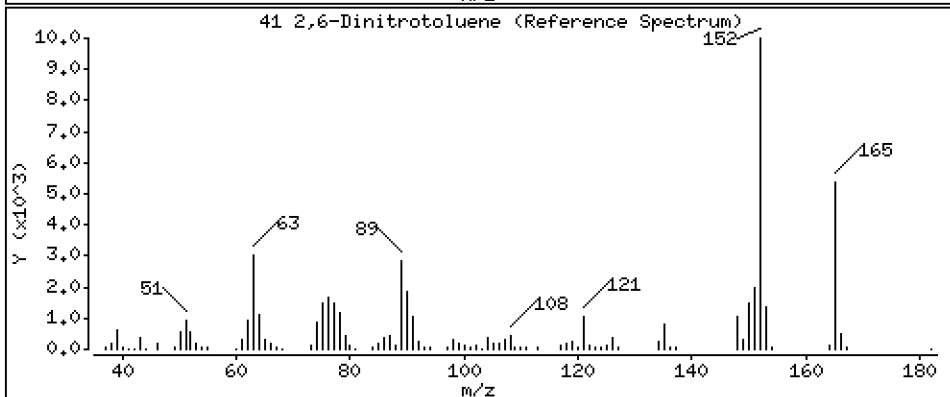
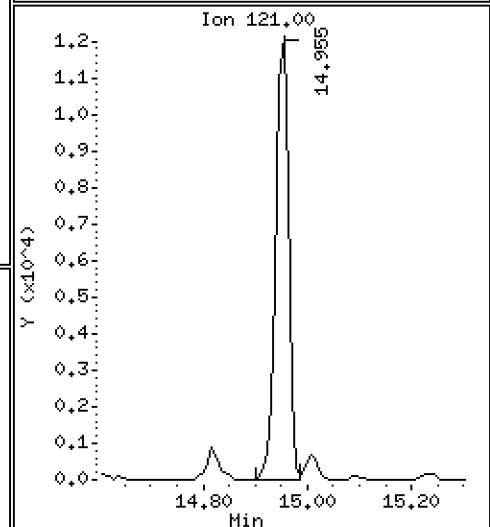
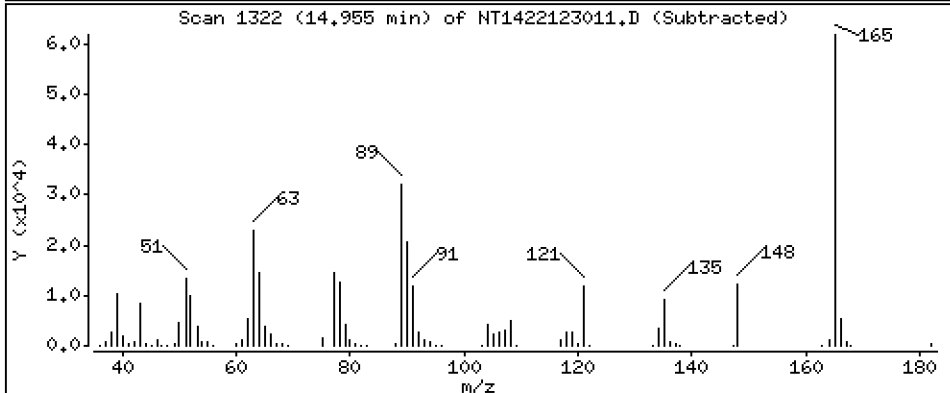
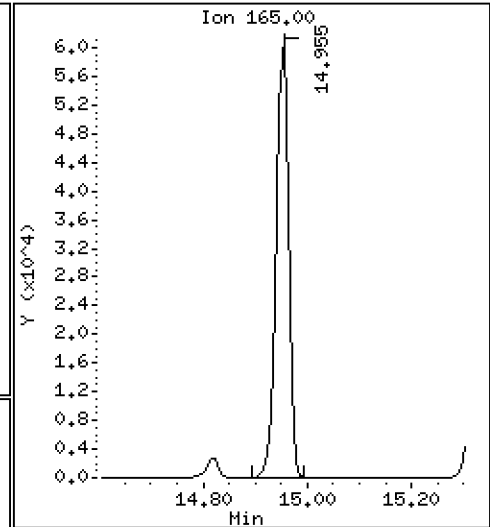
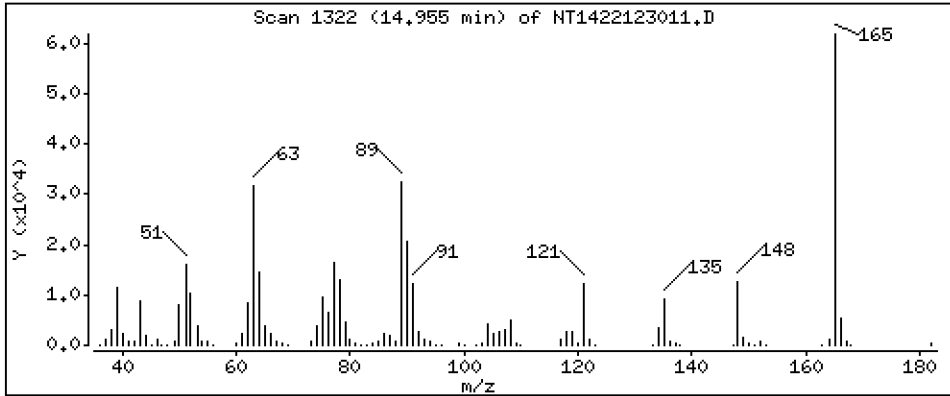
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 5.115 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

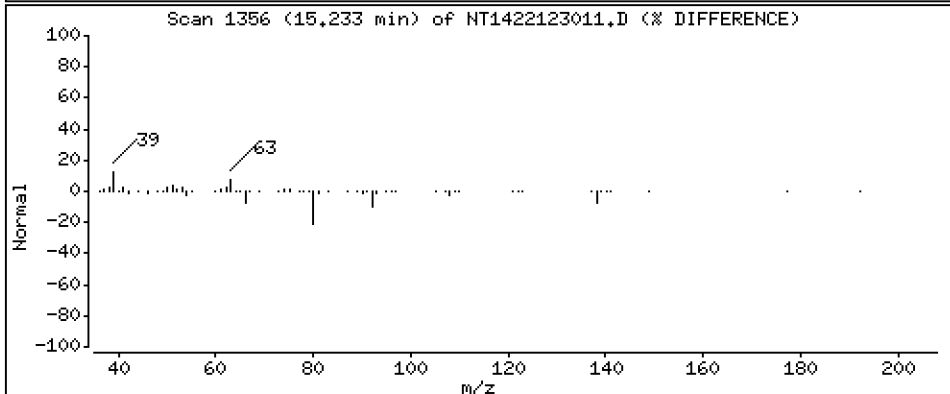
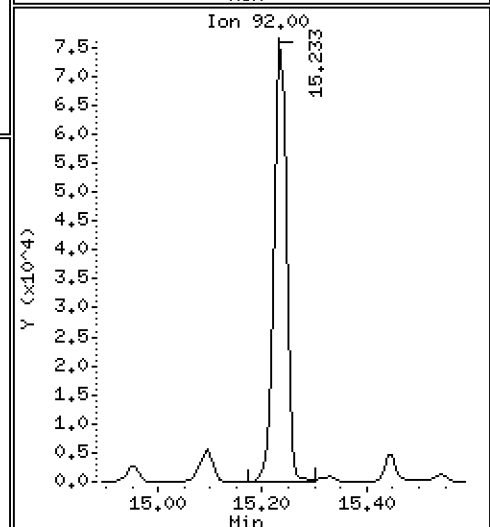
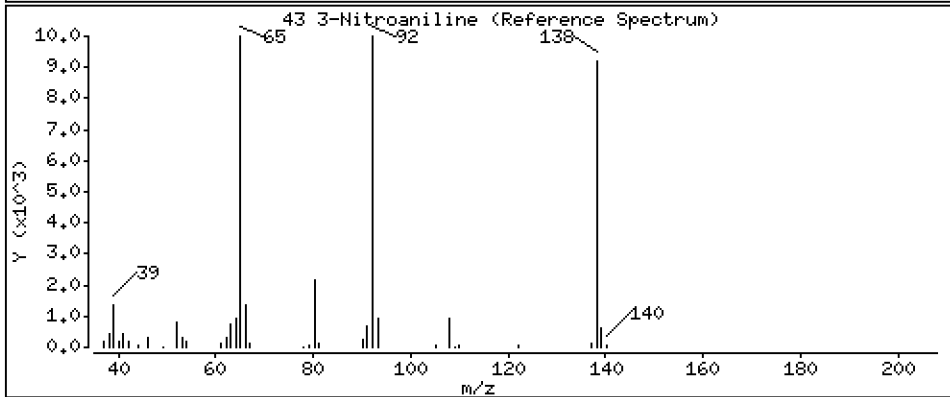
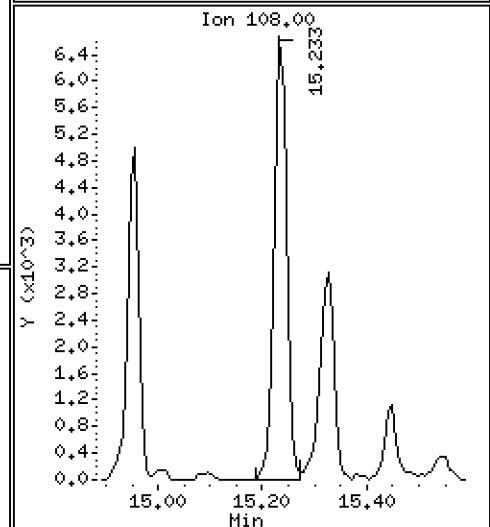
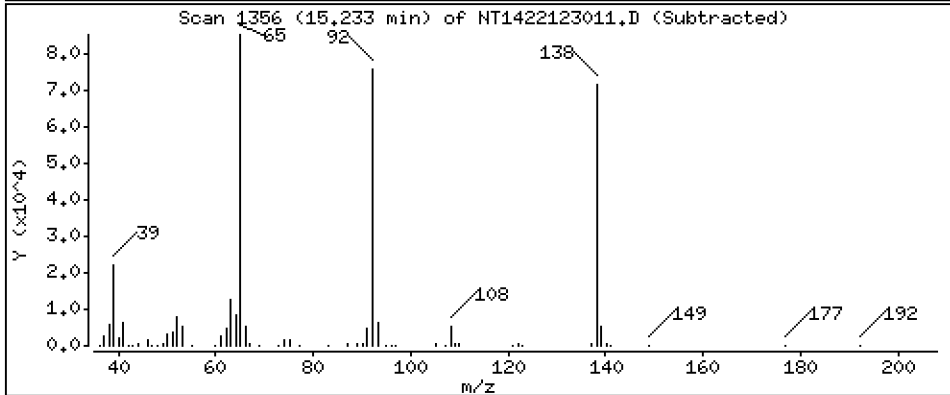
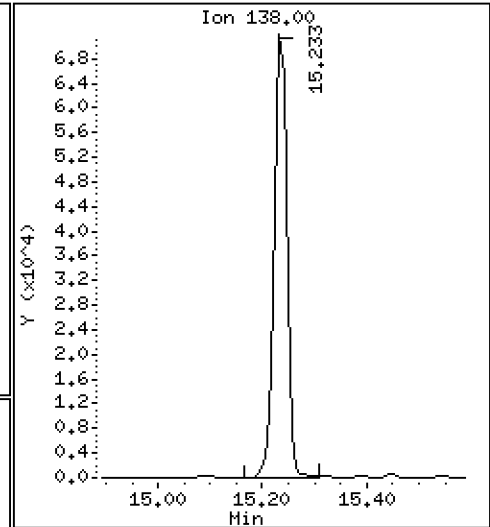
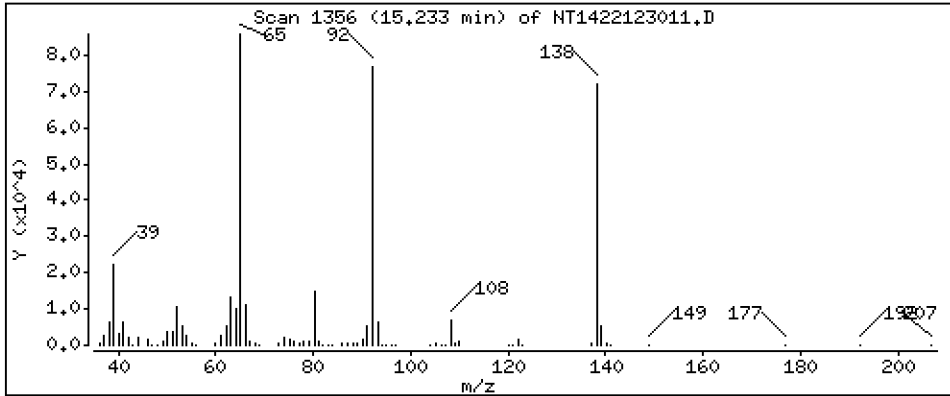
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 5,088 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

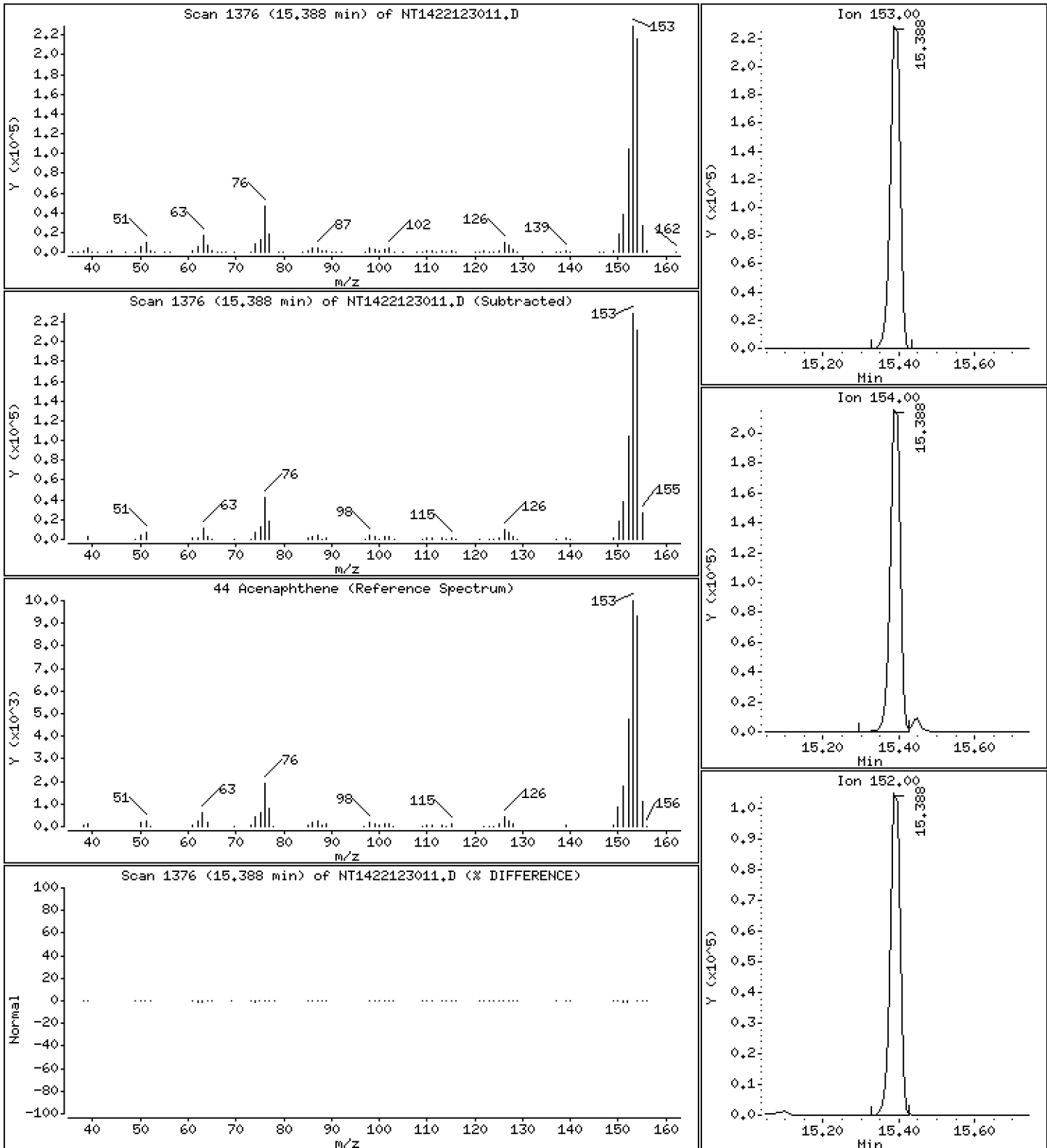
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,916 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

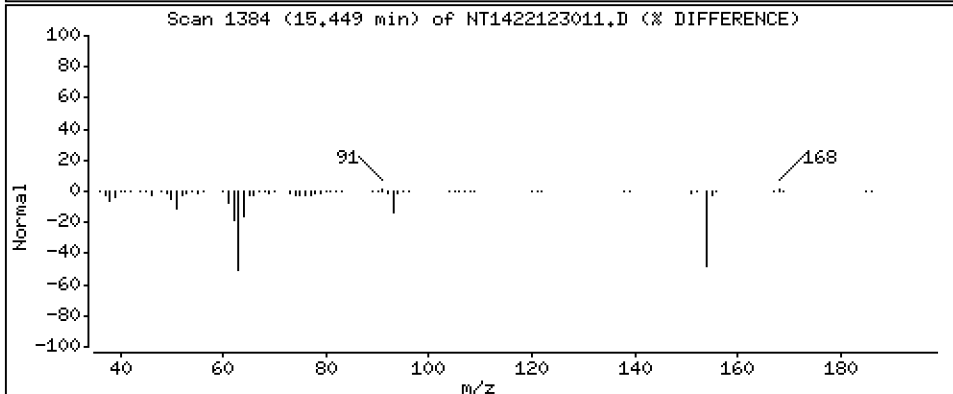
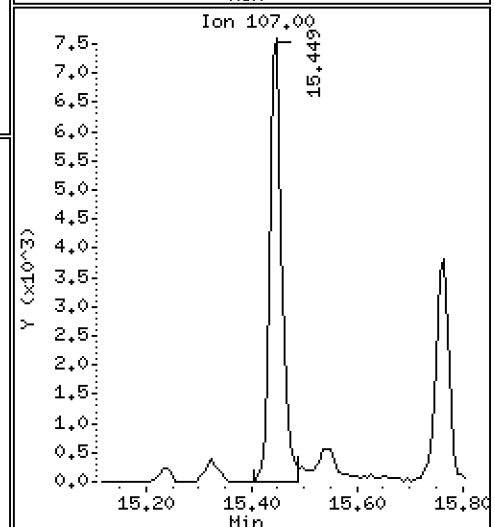
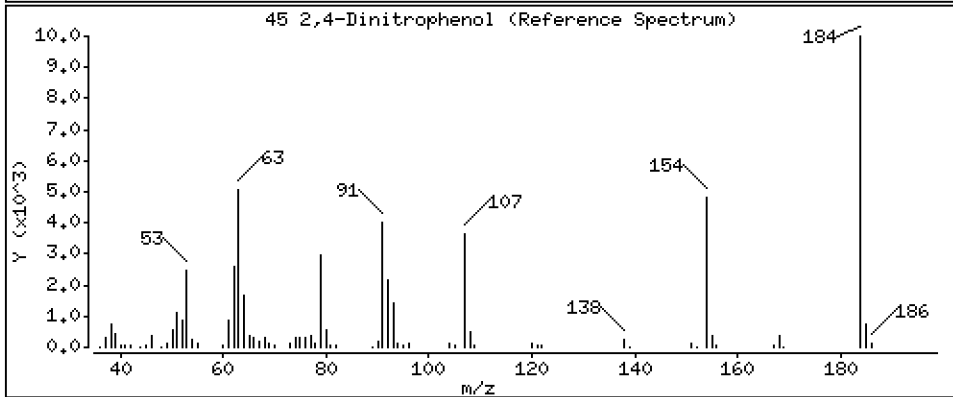
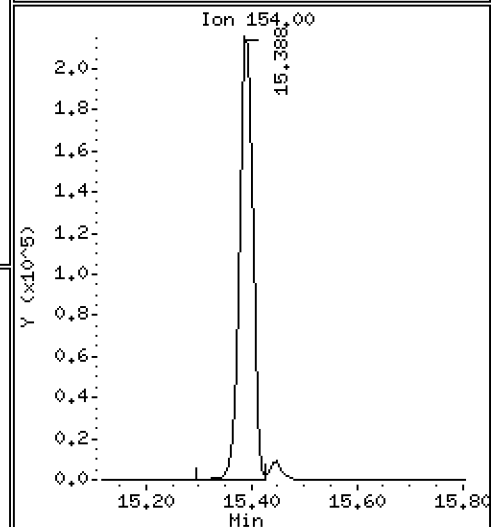
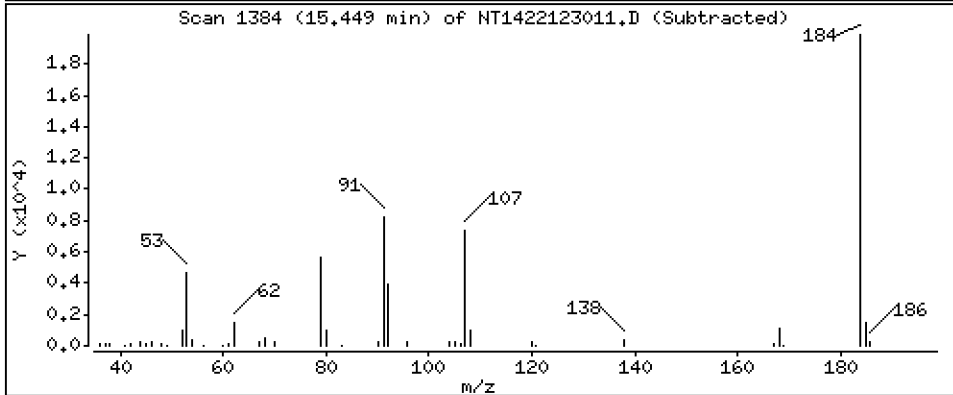
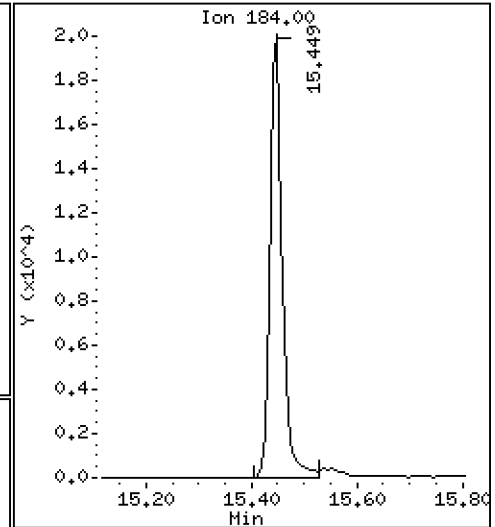
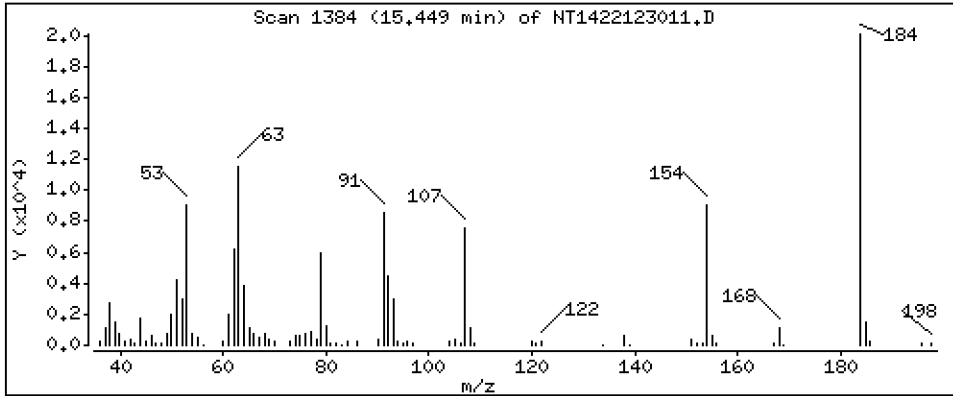
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 2,036 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

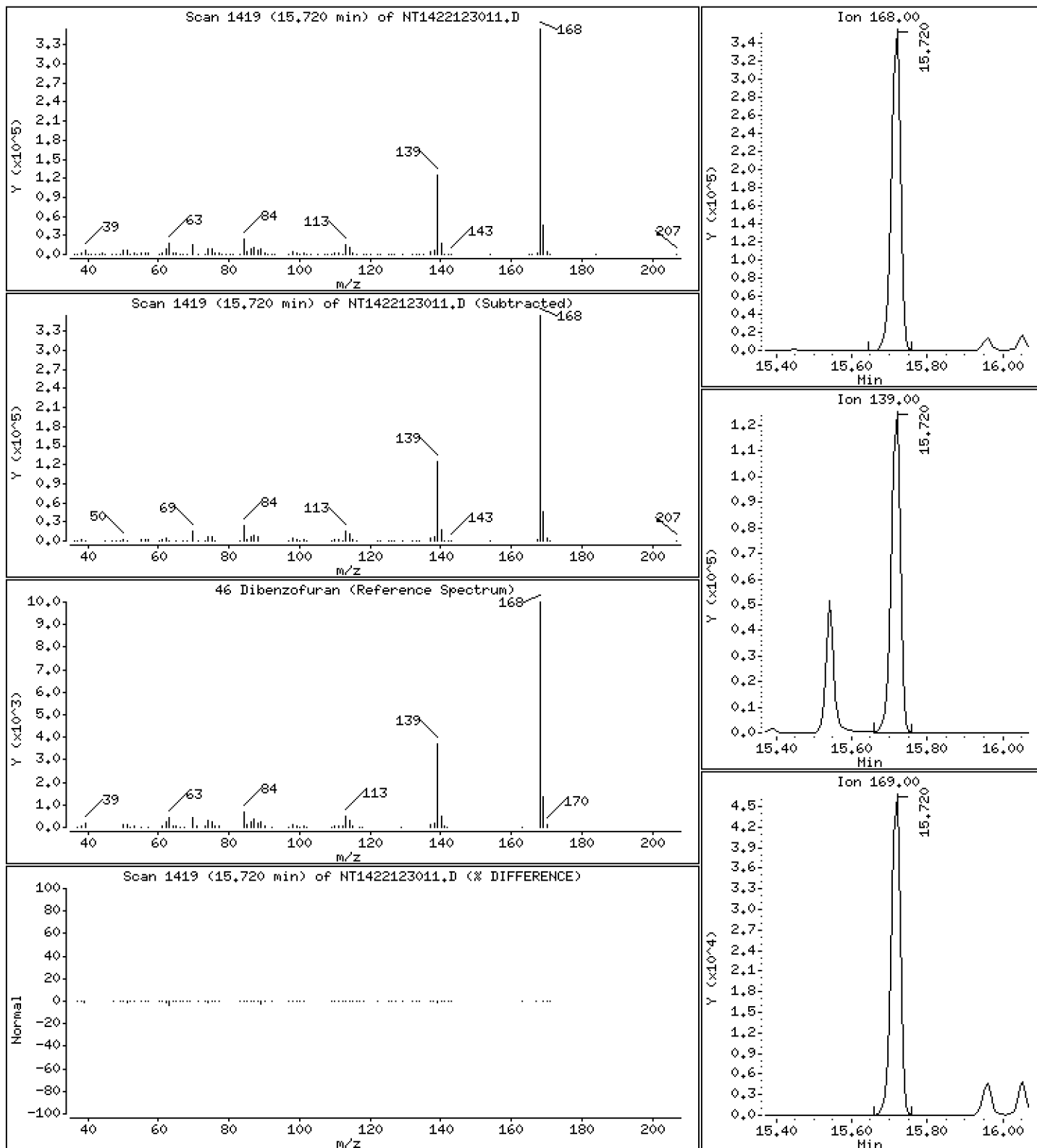
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,709 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

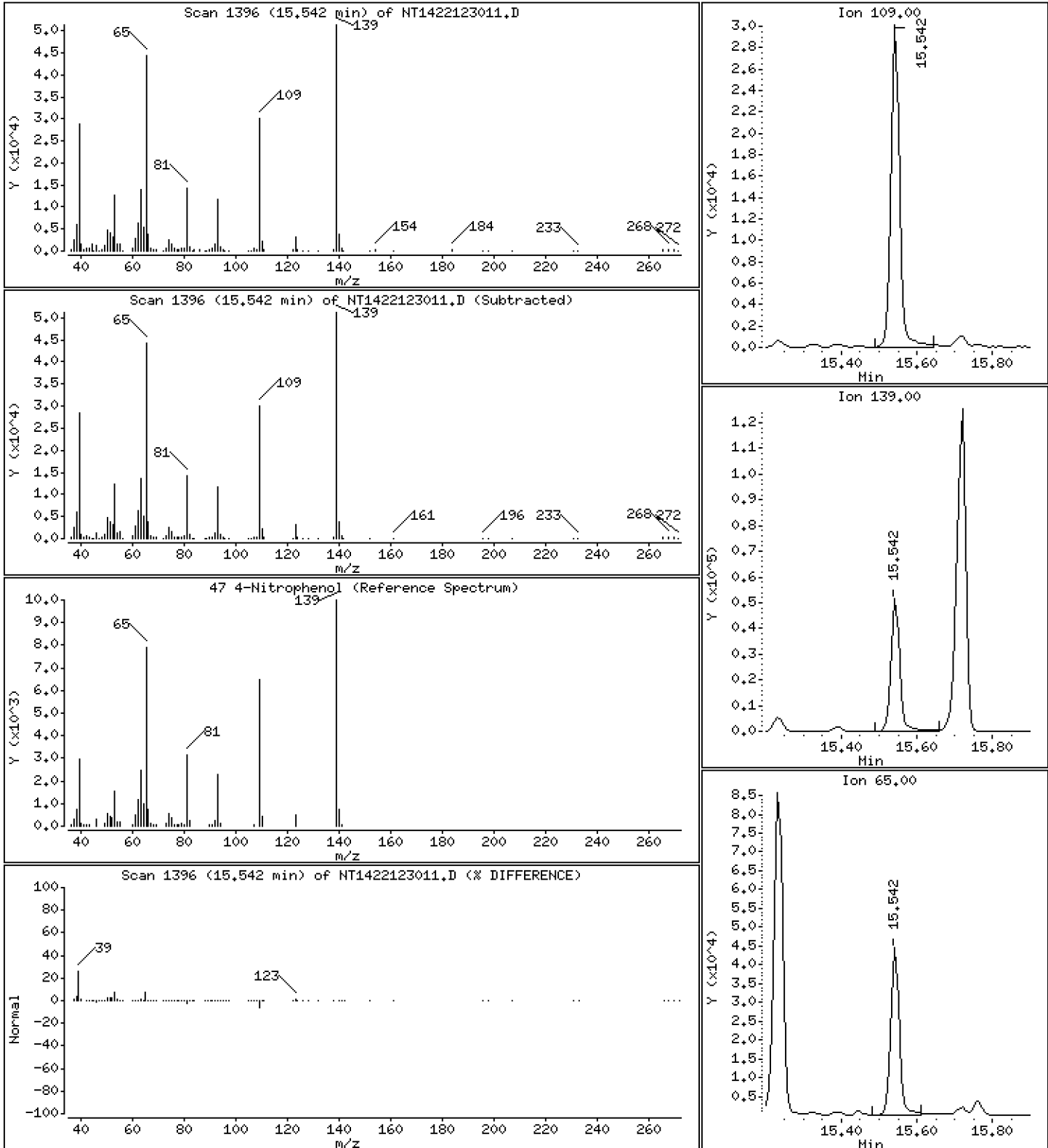
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 4,077 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

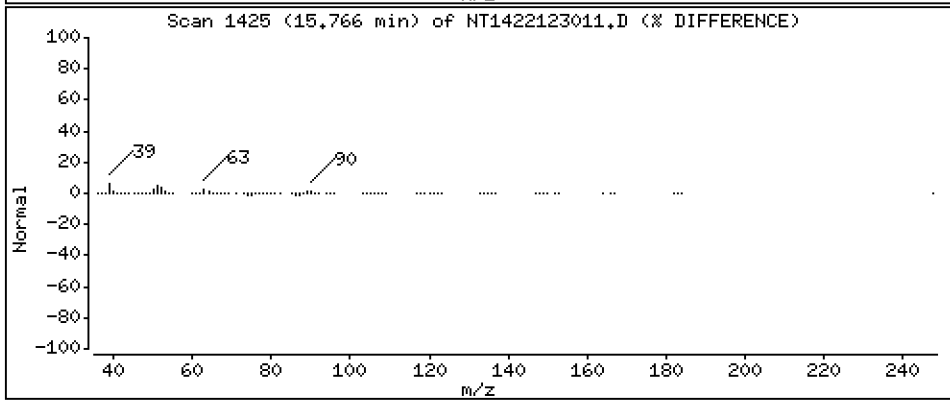
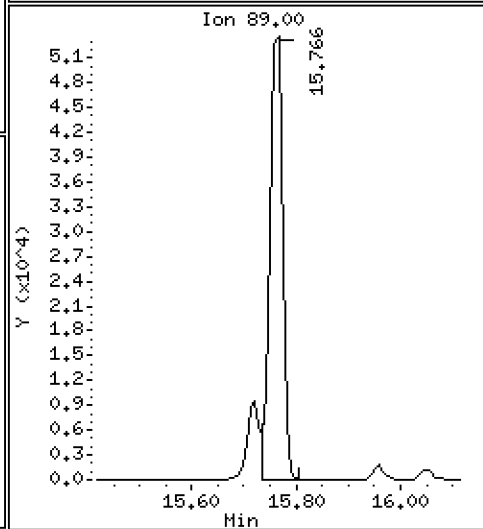
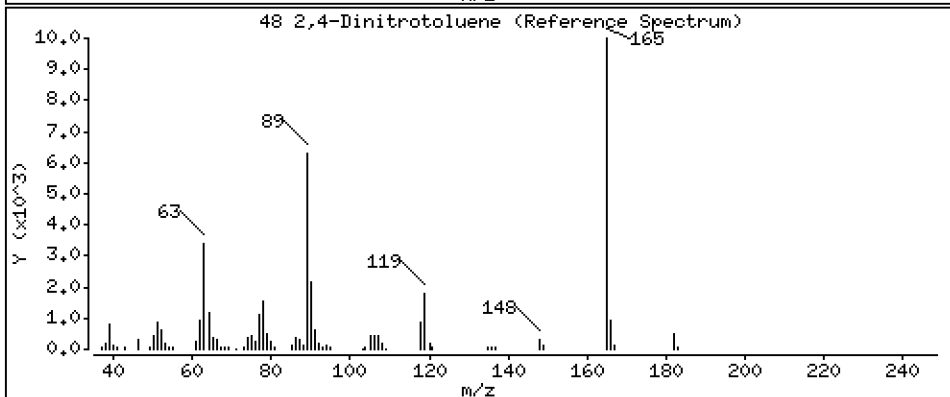
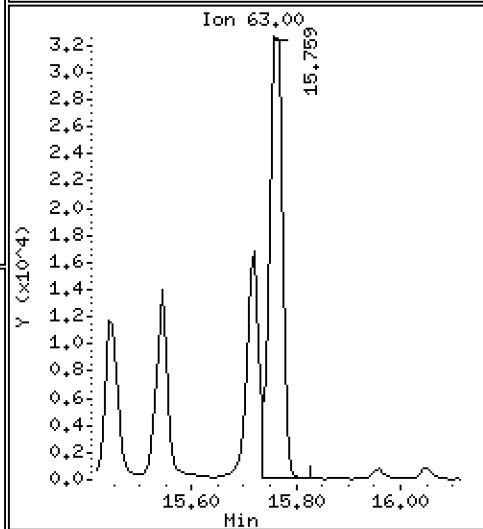
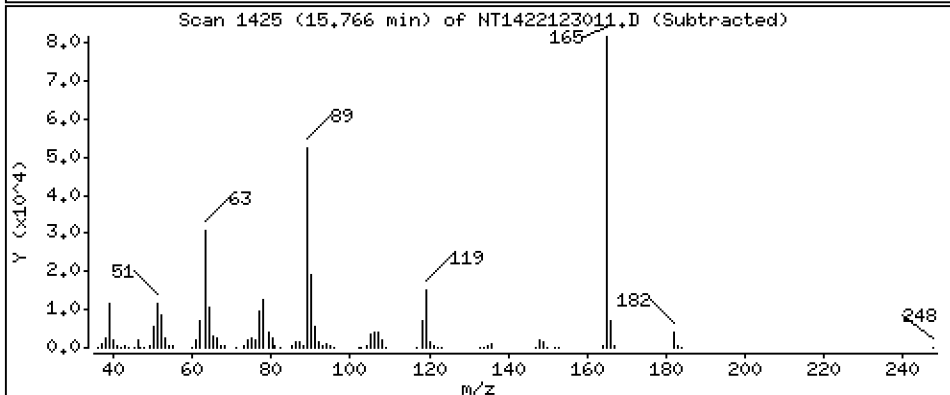
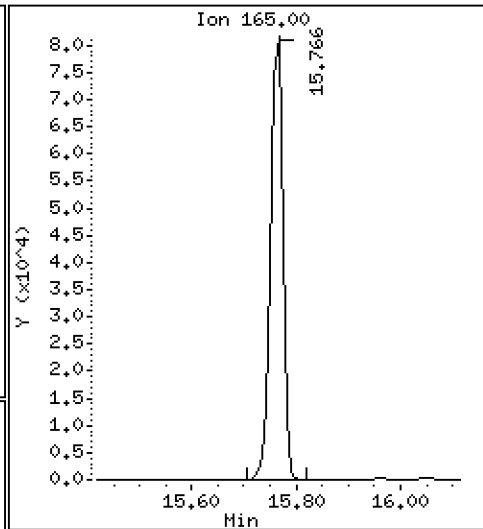
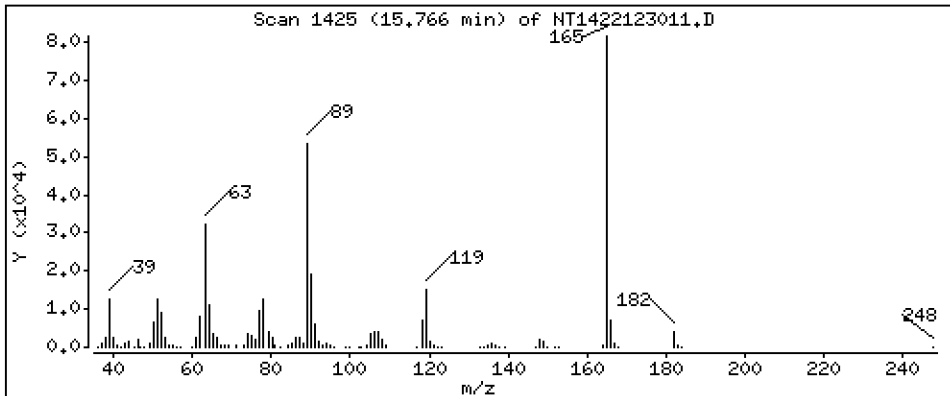
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 4,956 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

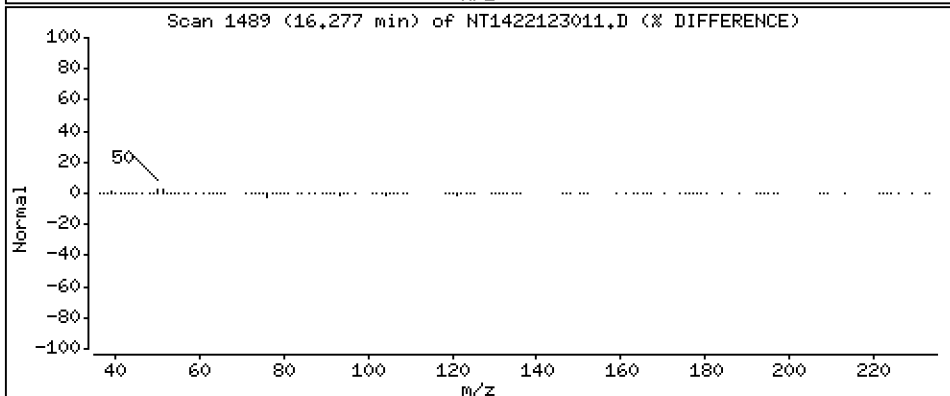
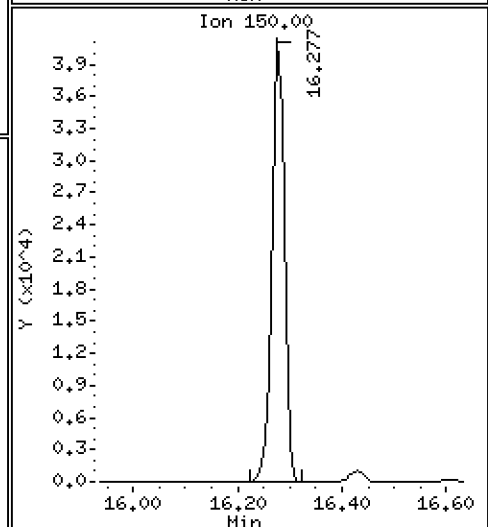
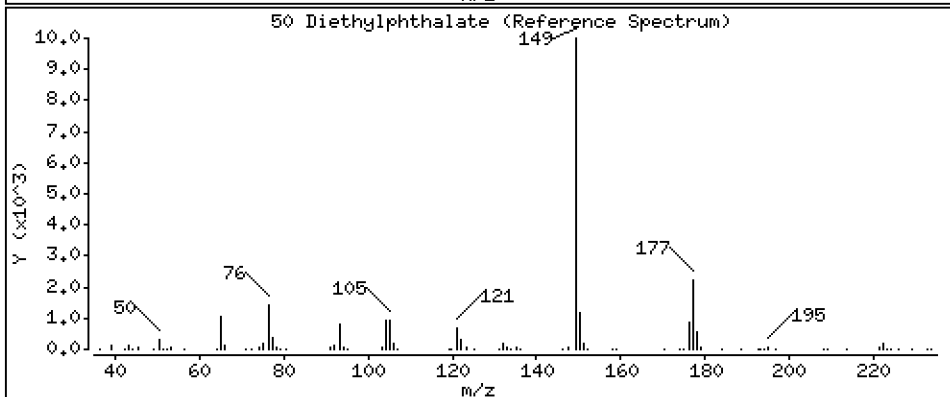
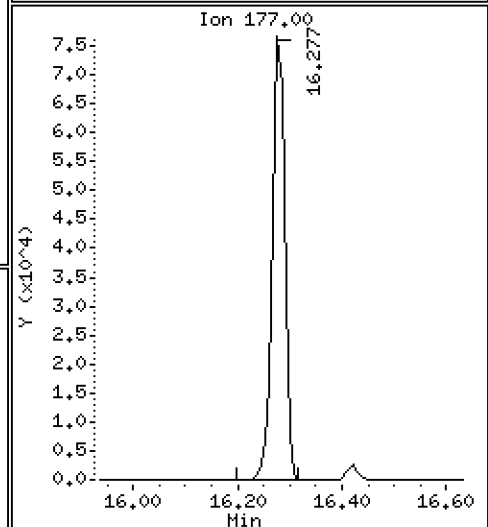
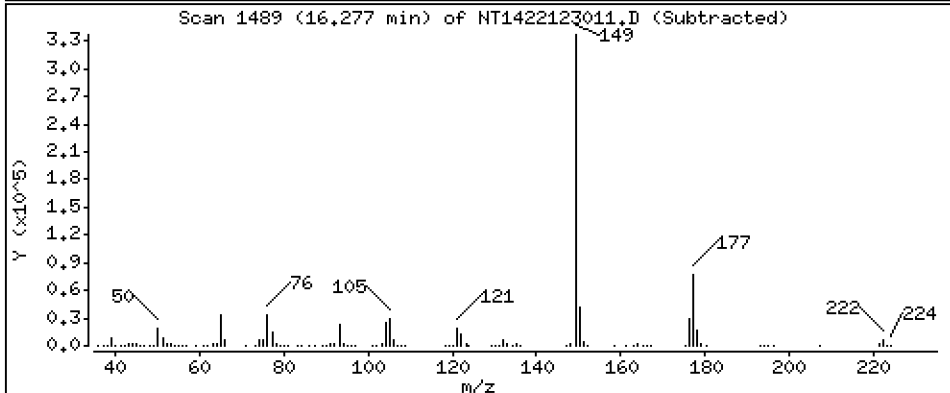
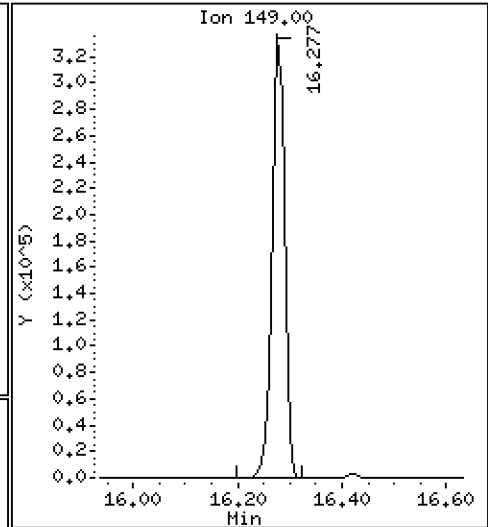
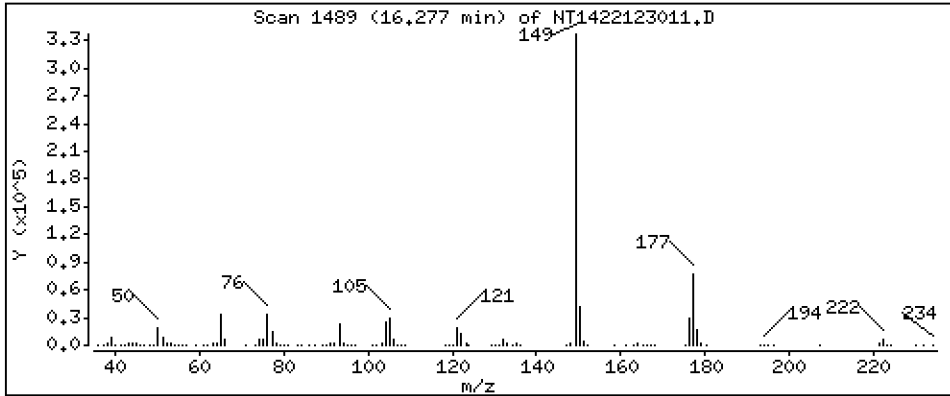
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,353 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

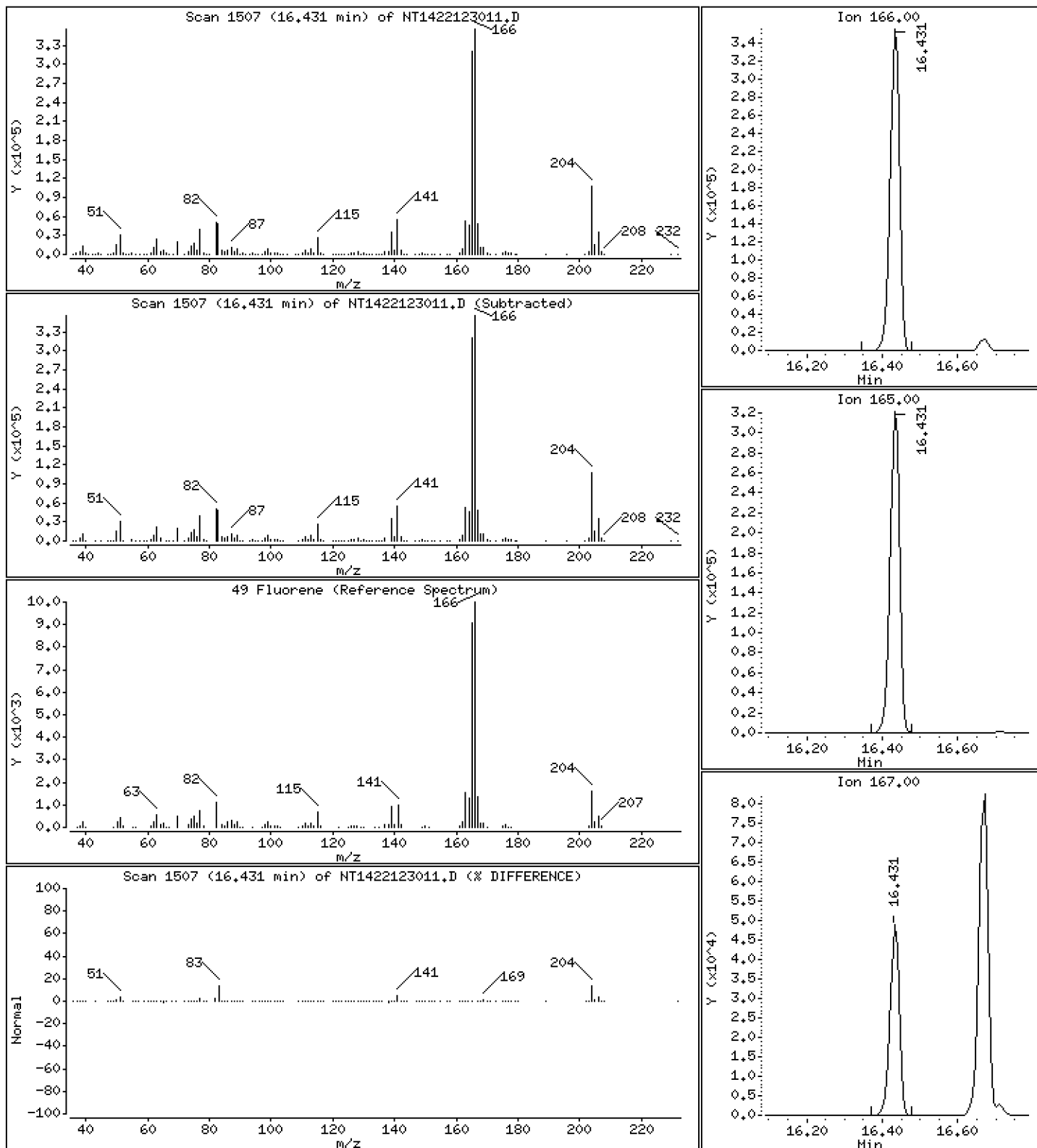
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,230 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

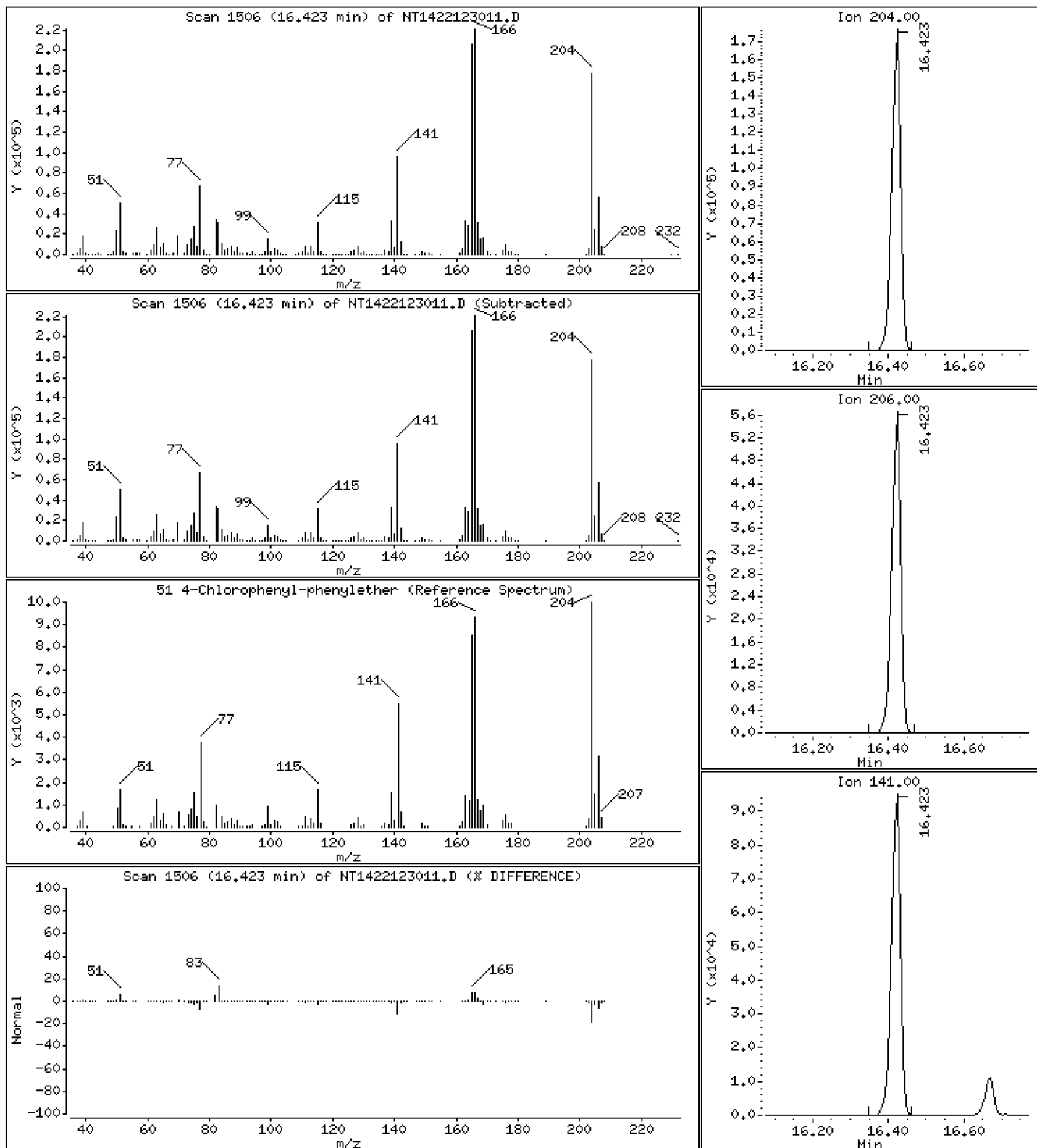
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 5,094 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

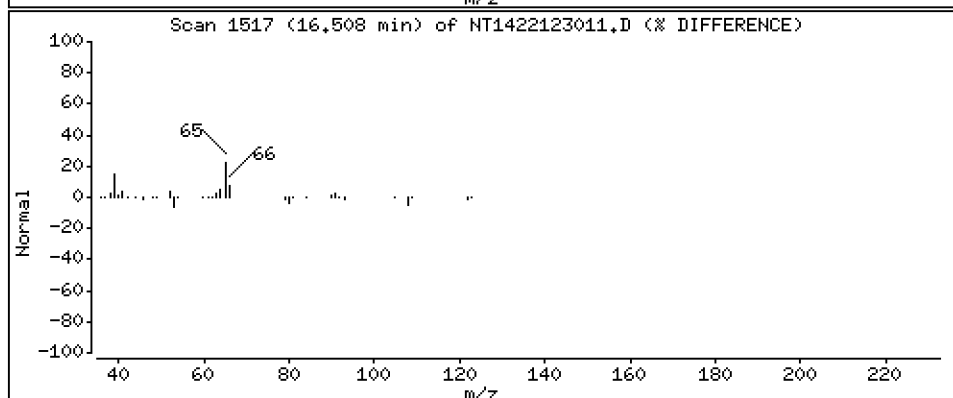
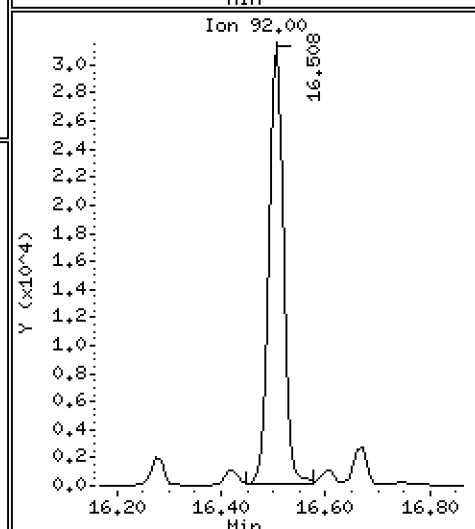
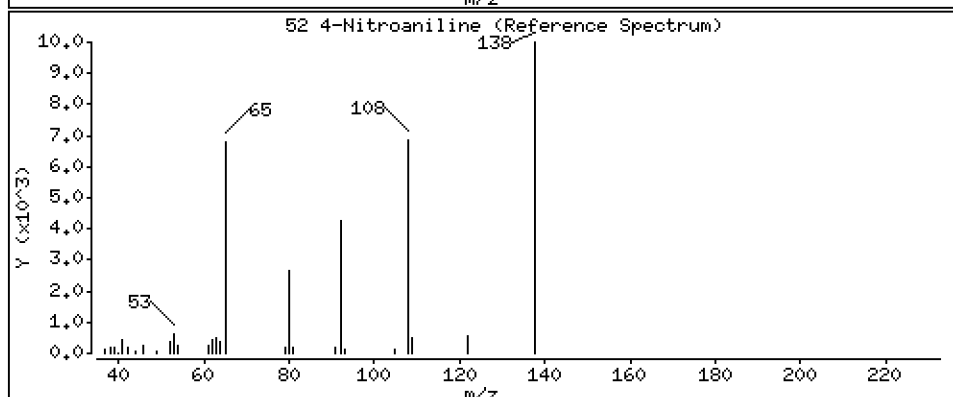
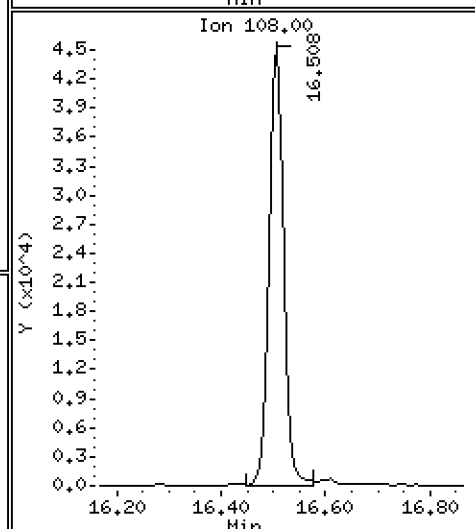
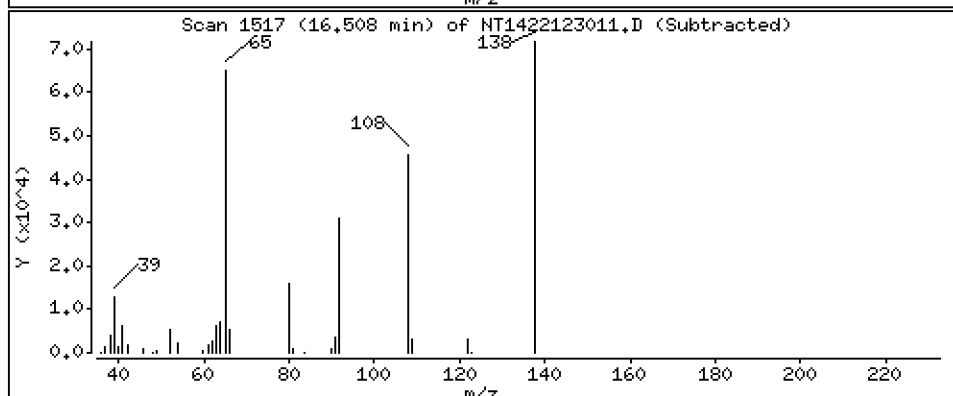
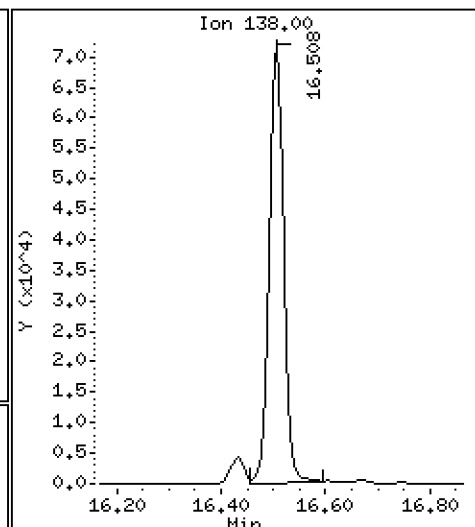
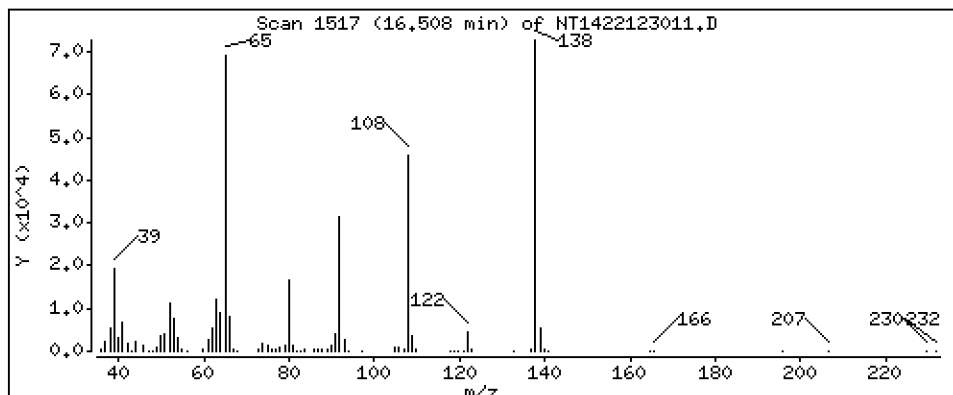
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 4,733 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

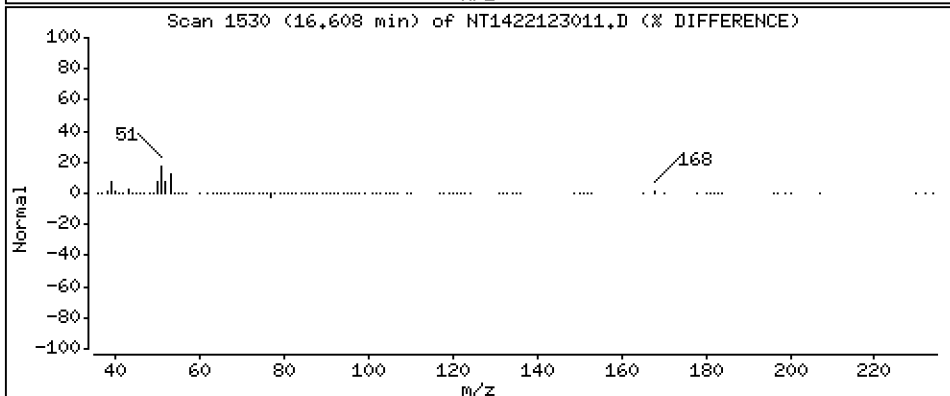
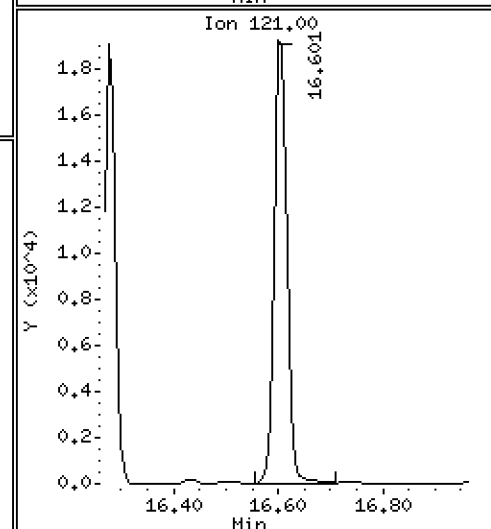
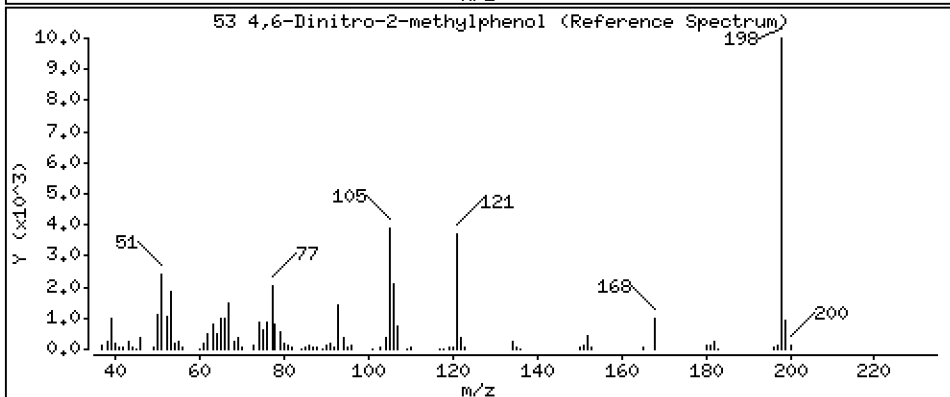
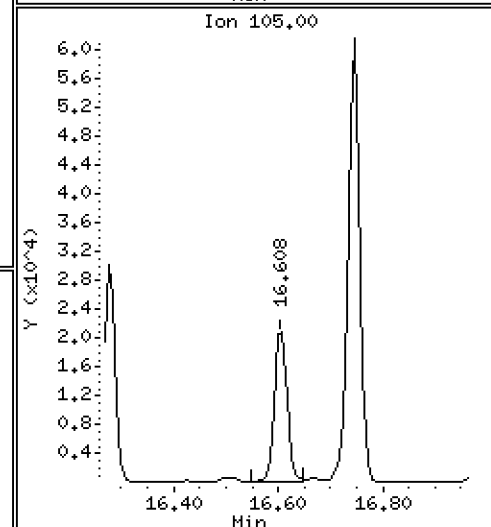
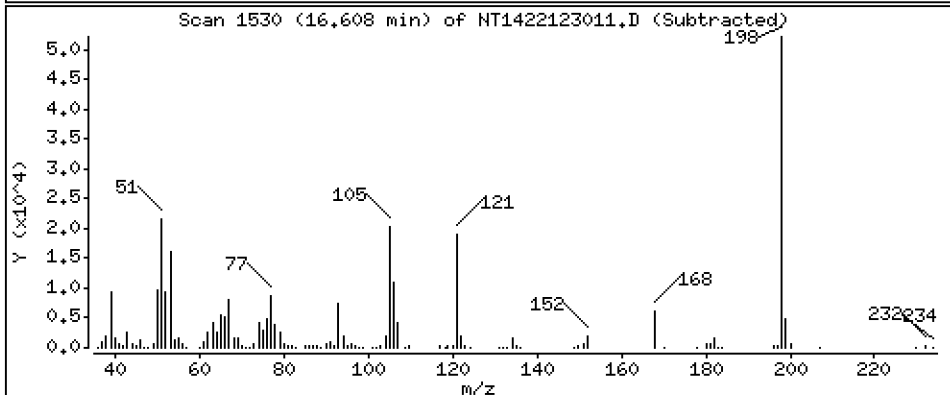
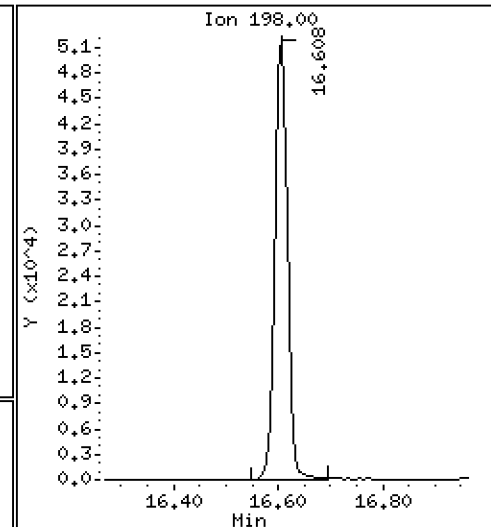
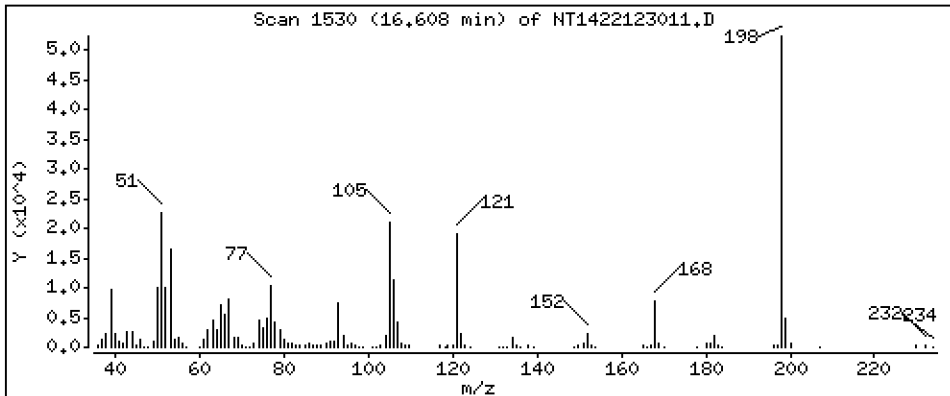
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 4.082 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

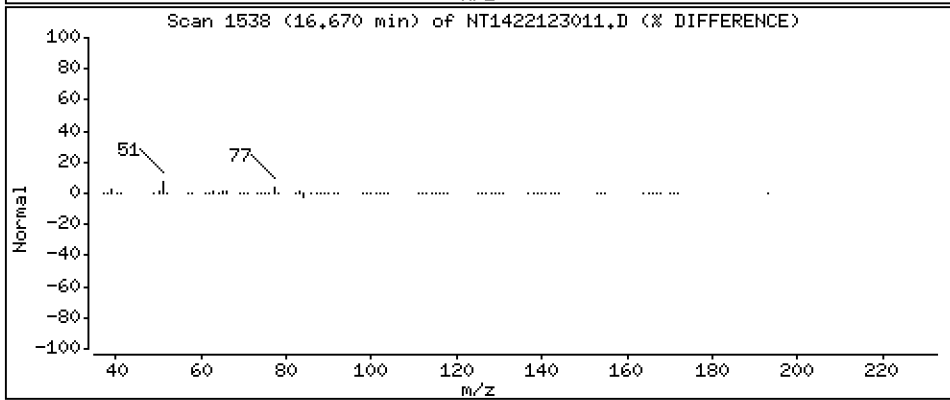
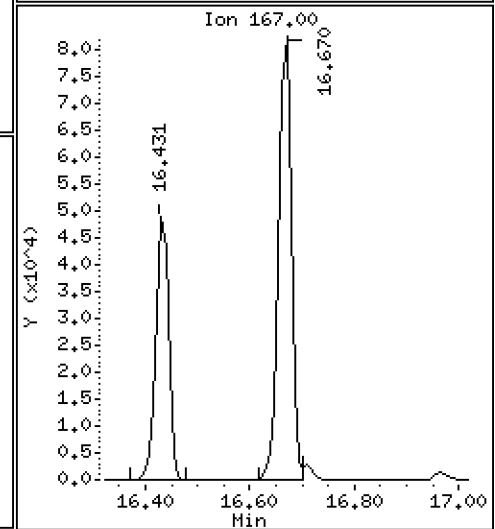
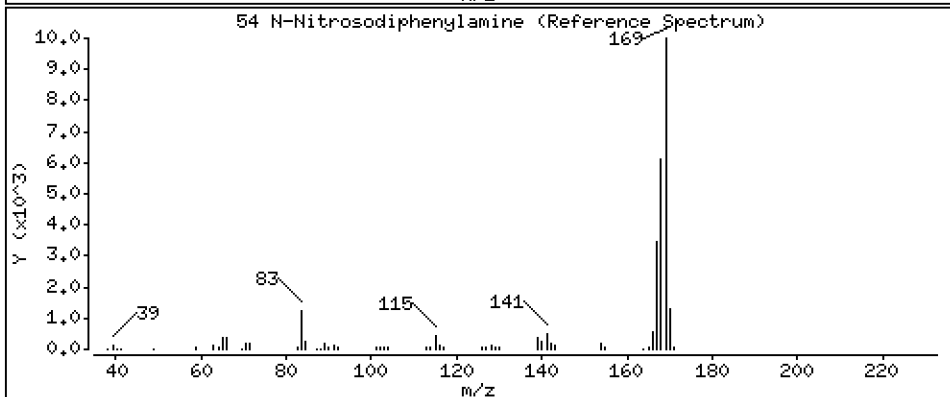
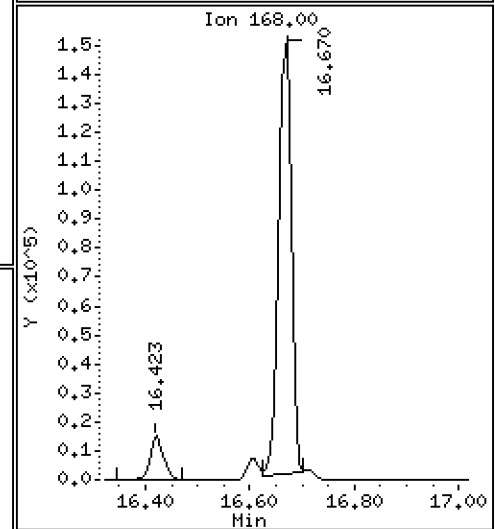
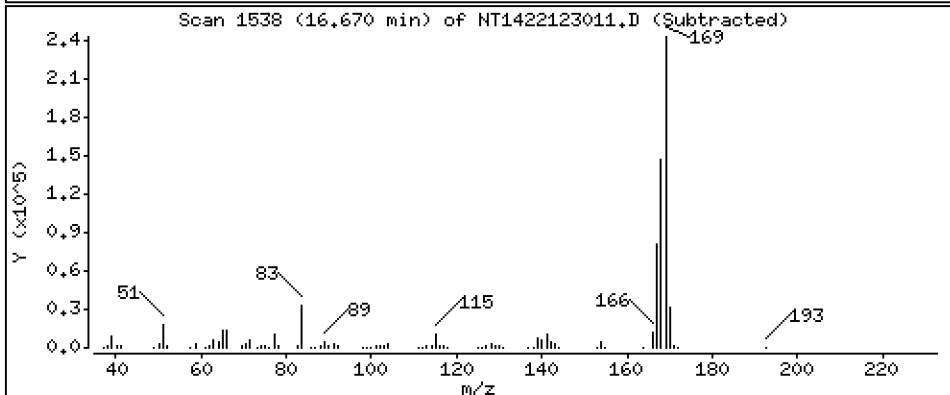
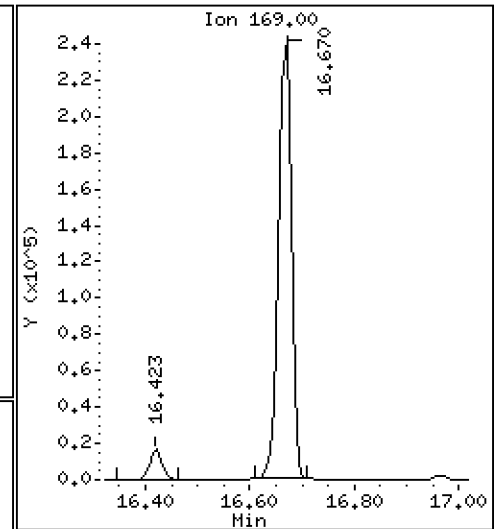
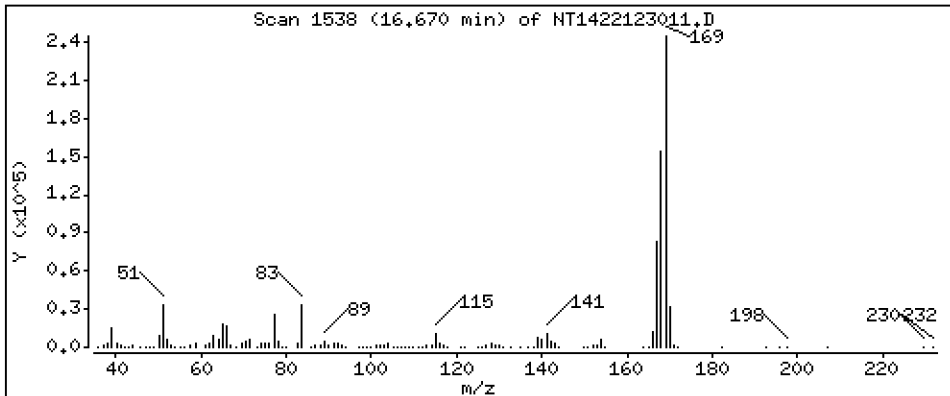
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 4.775 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

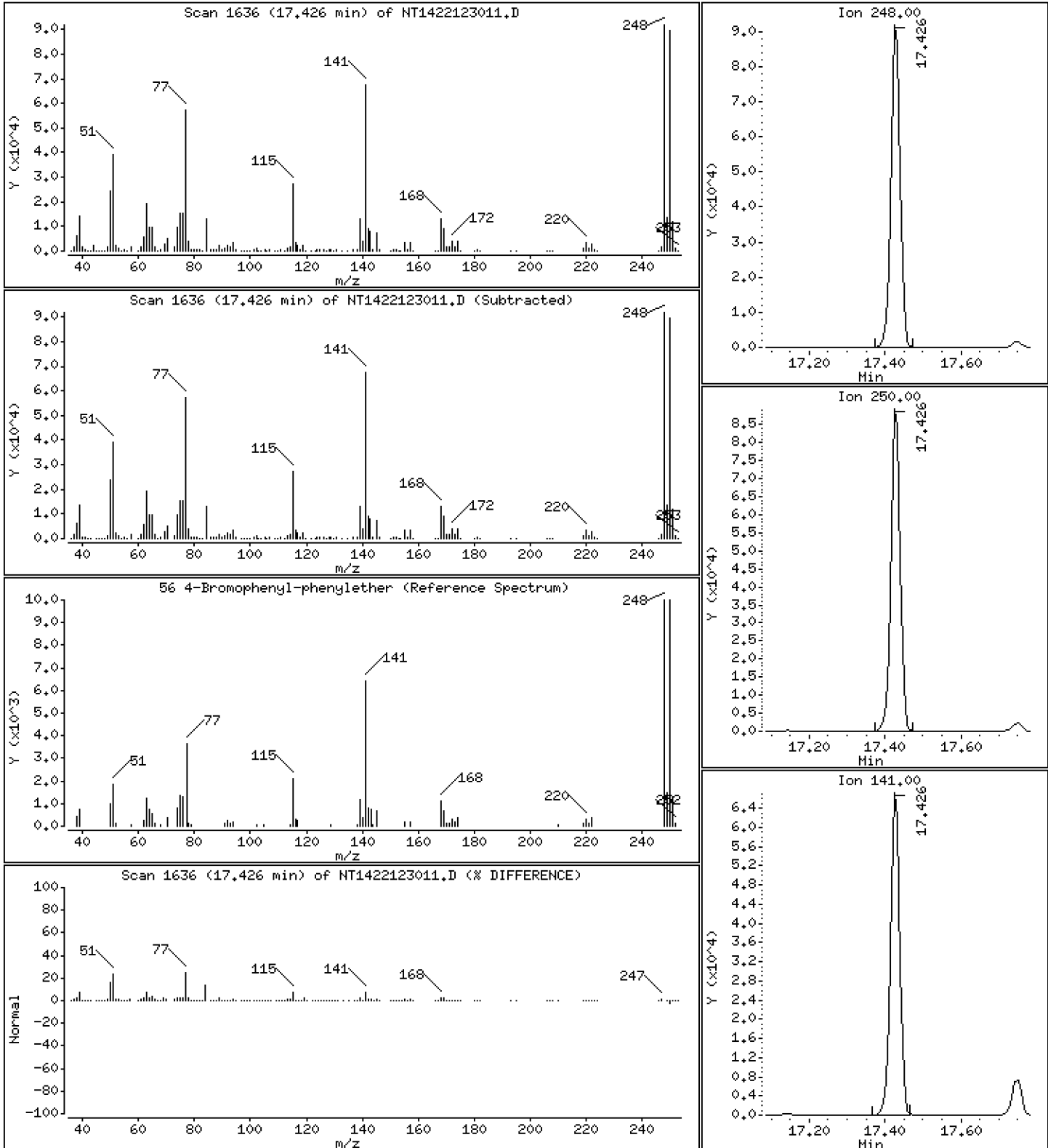
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,938 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

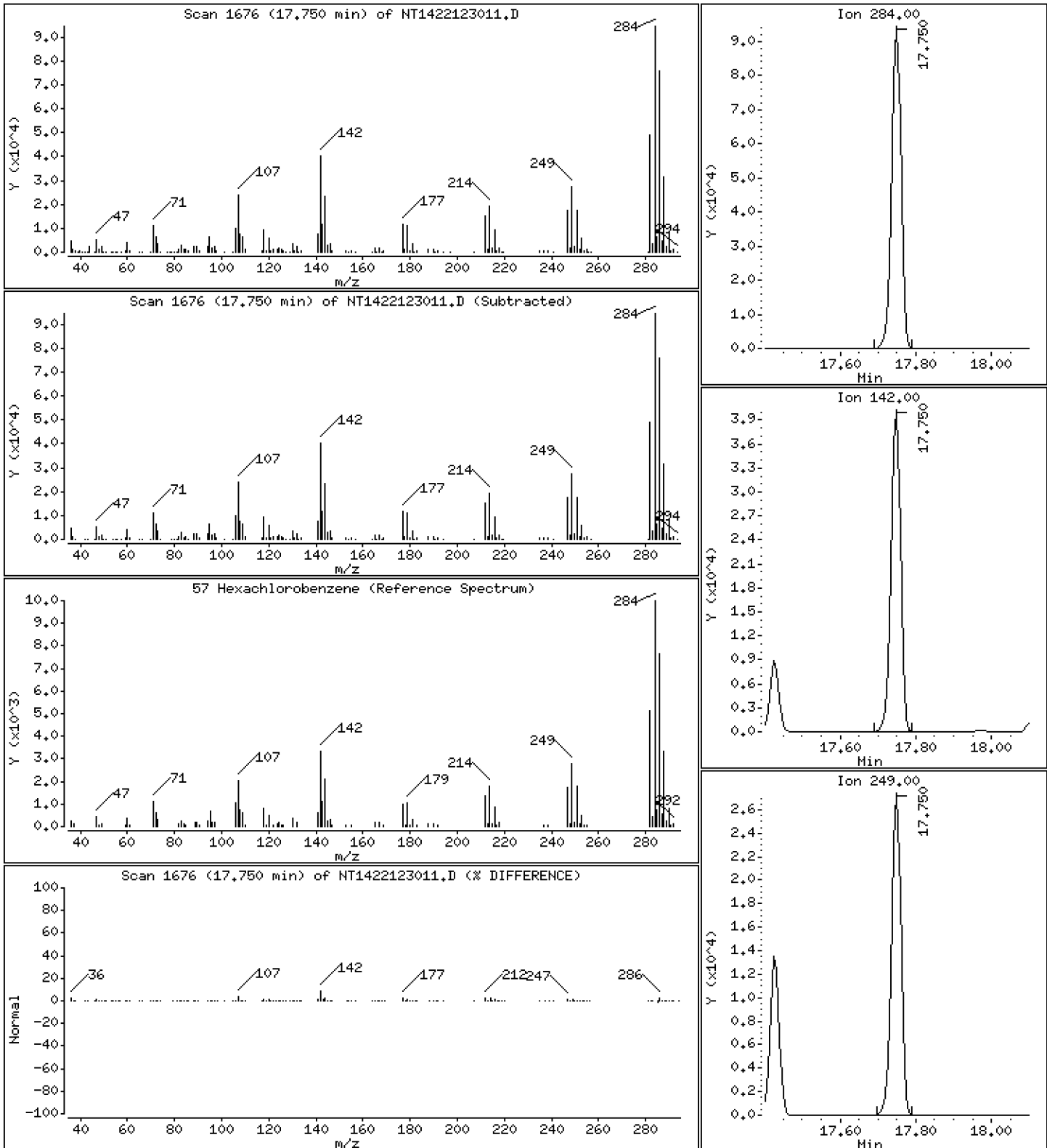
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,553 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

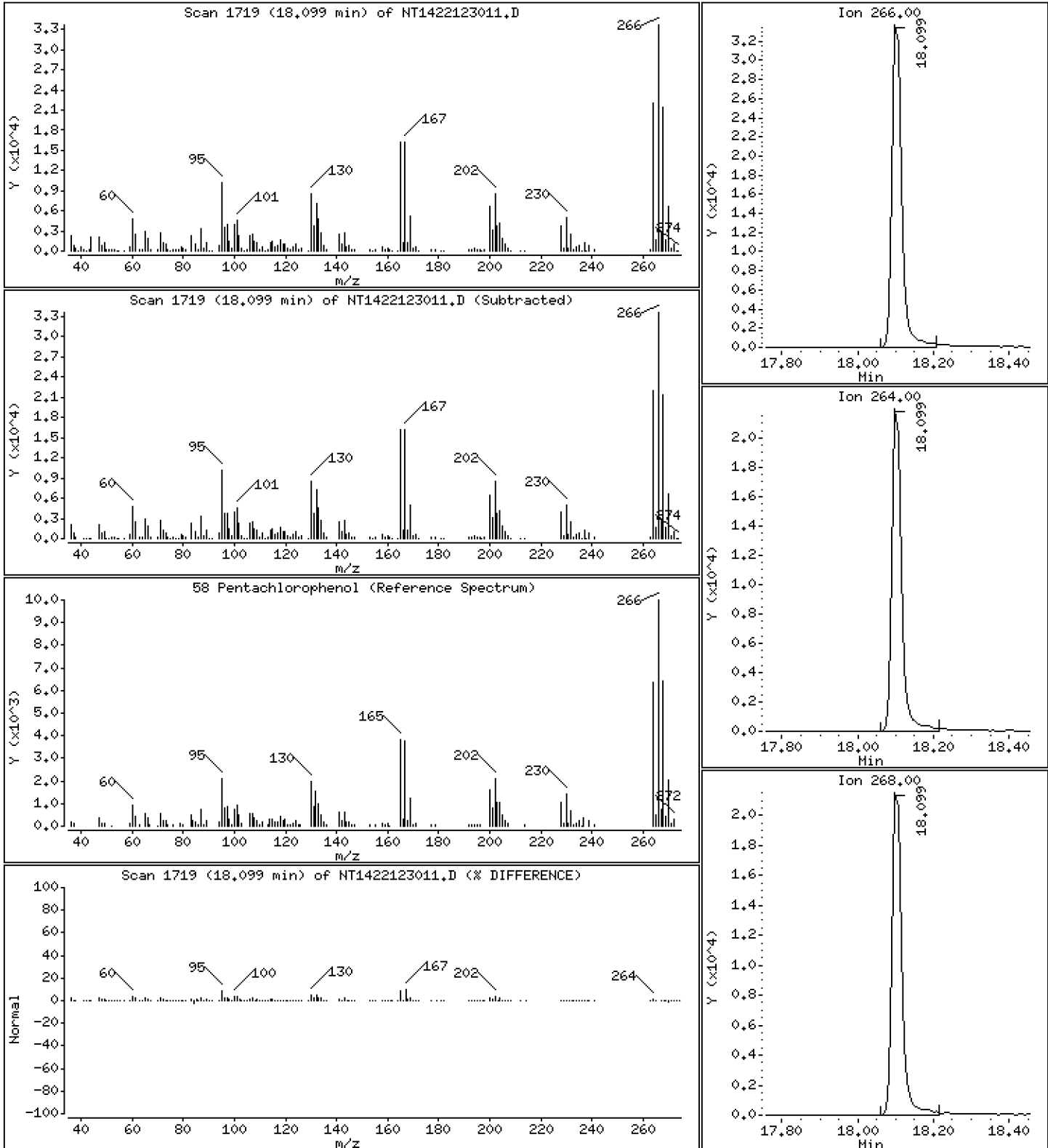
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 3,796 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

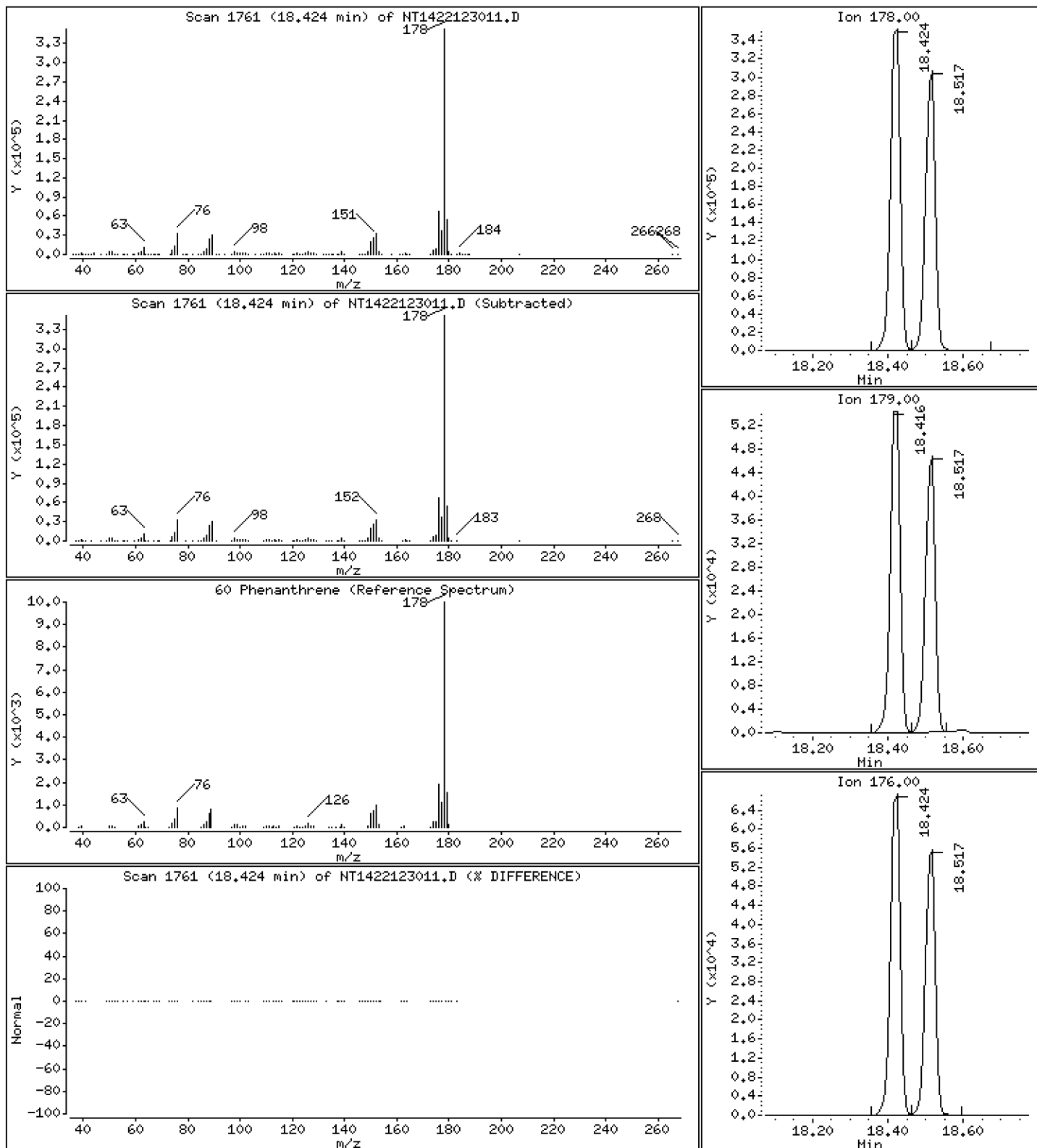
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,767 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

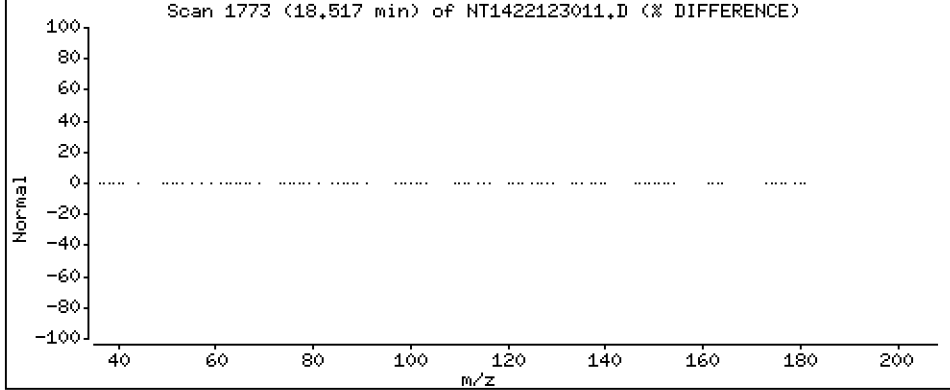
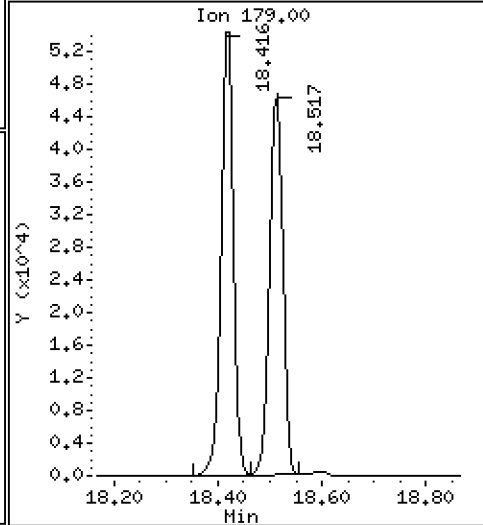
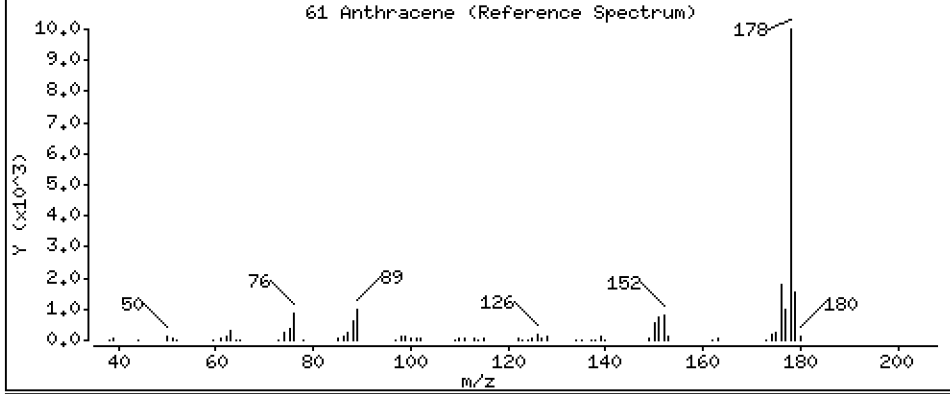
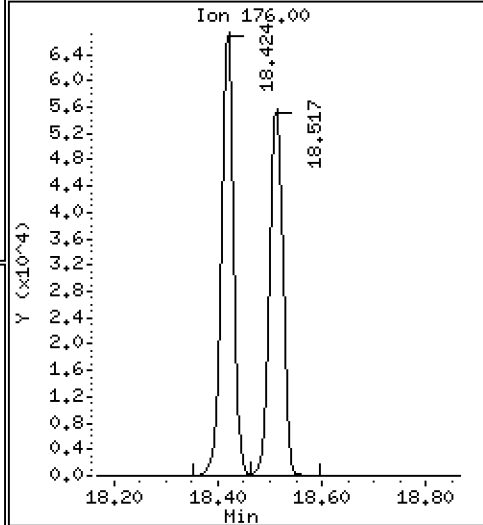
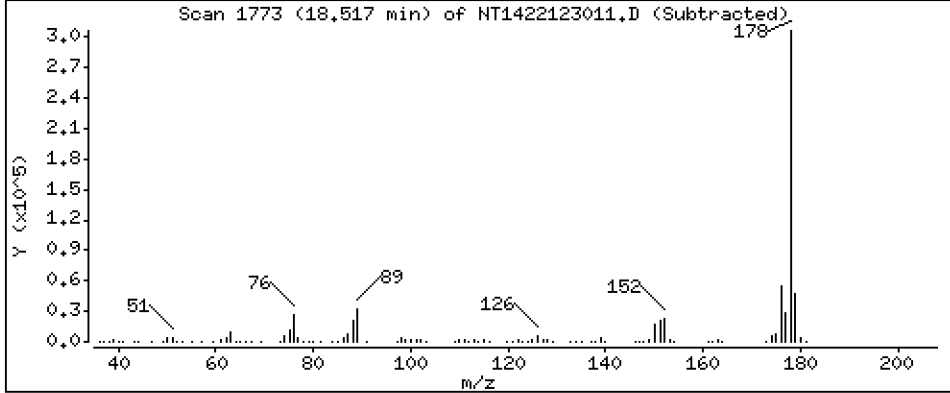
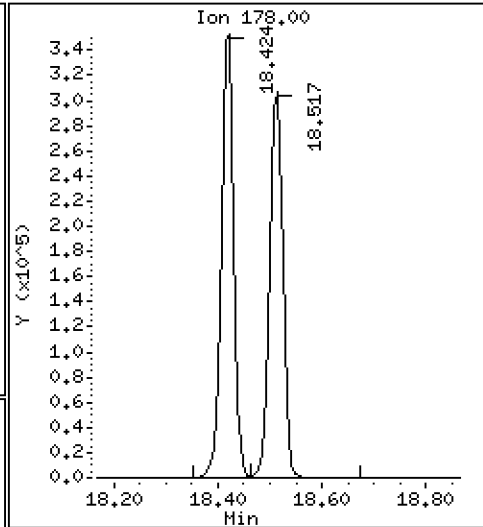
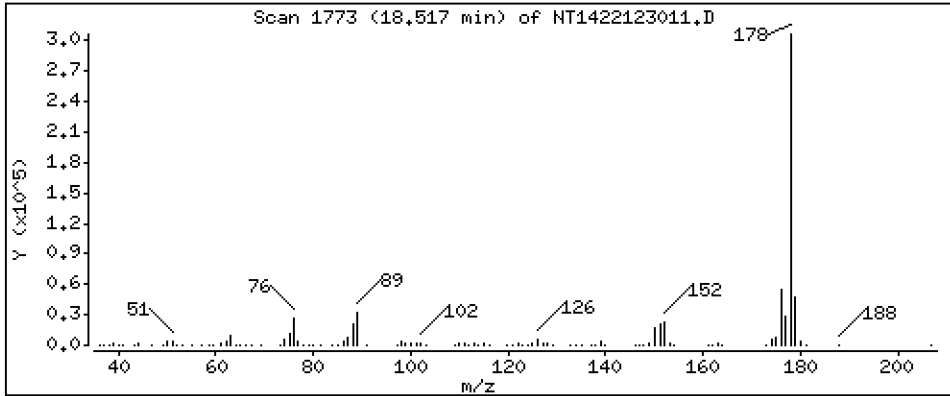
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,373 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

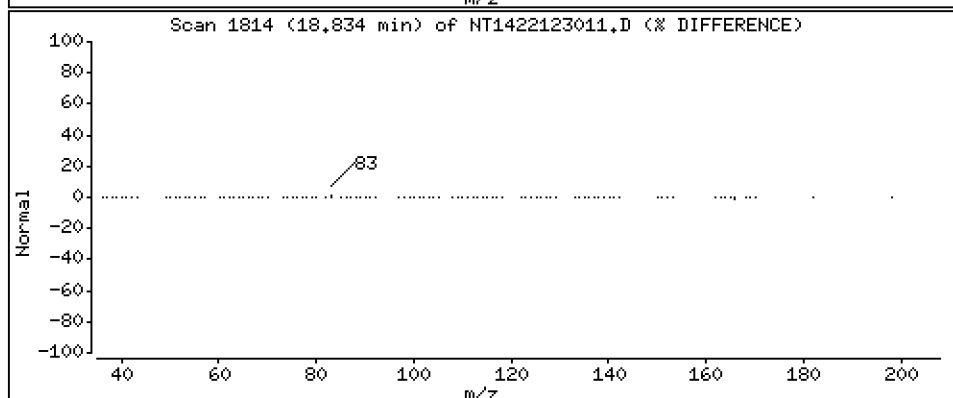
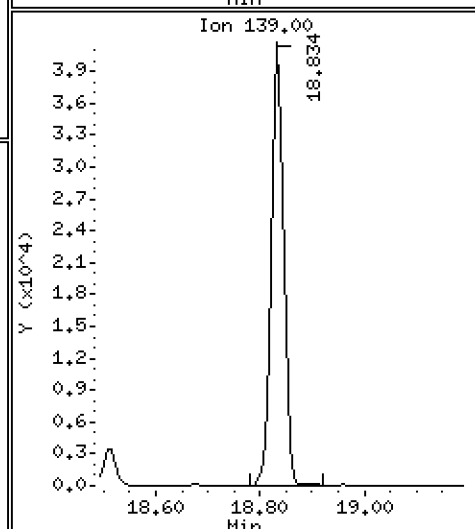
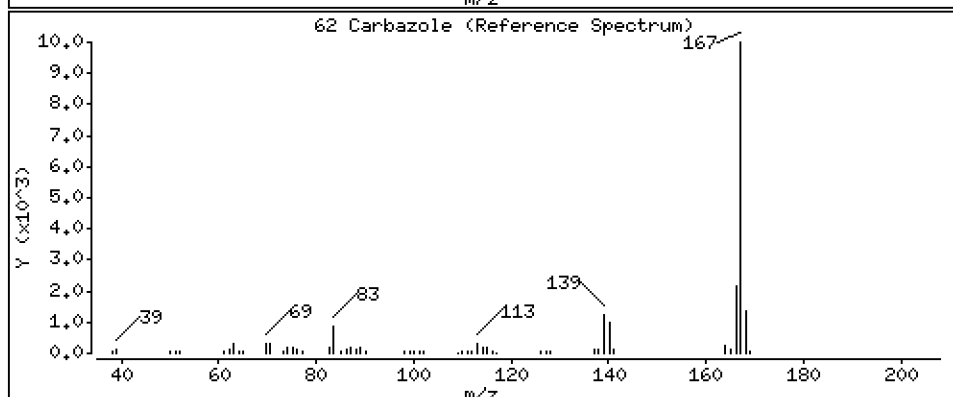
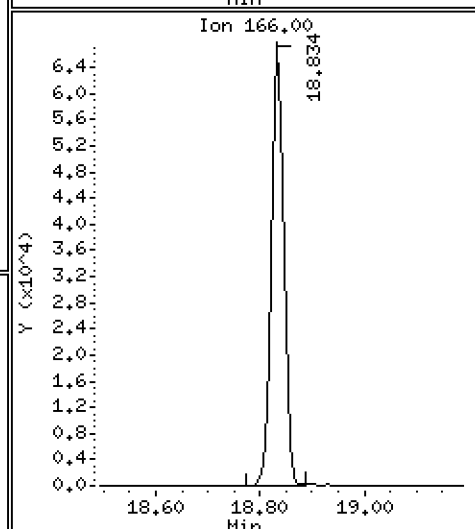
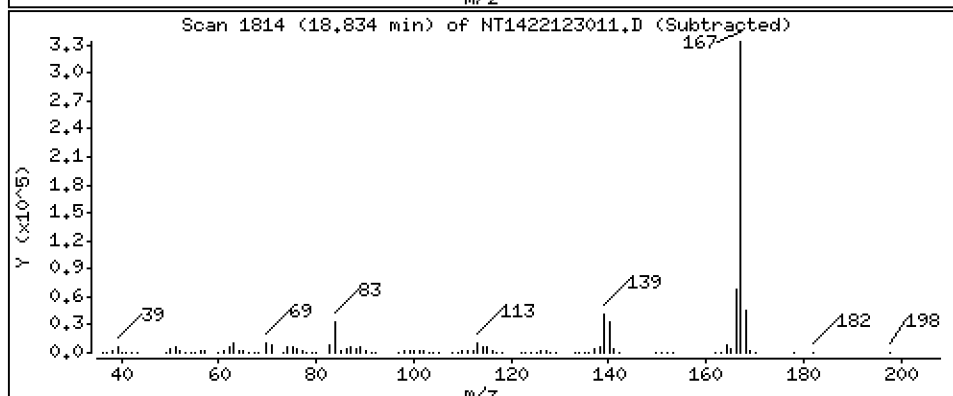
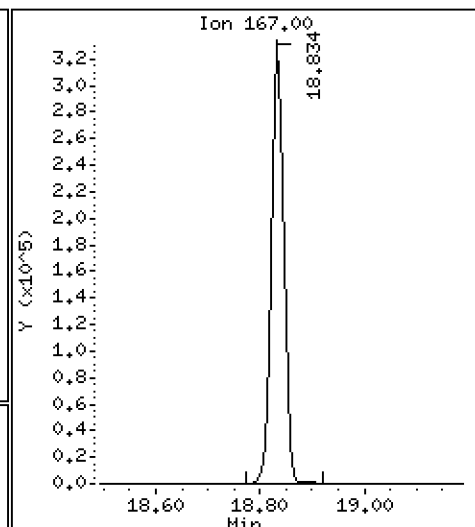
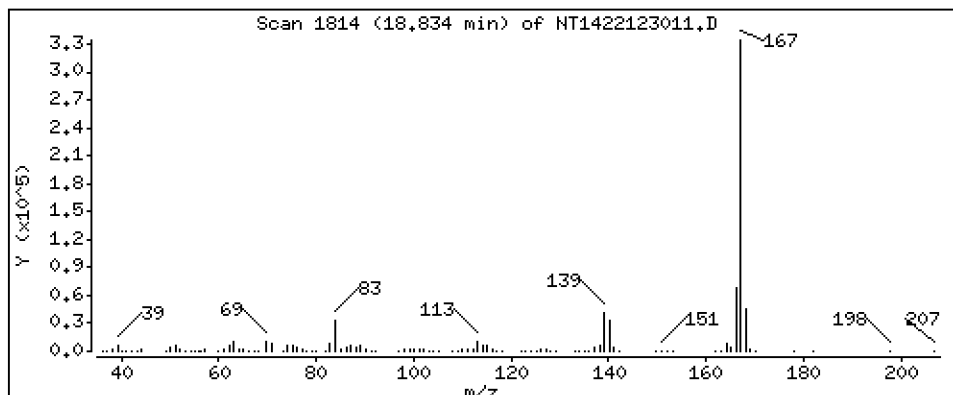
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,620 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

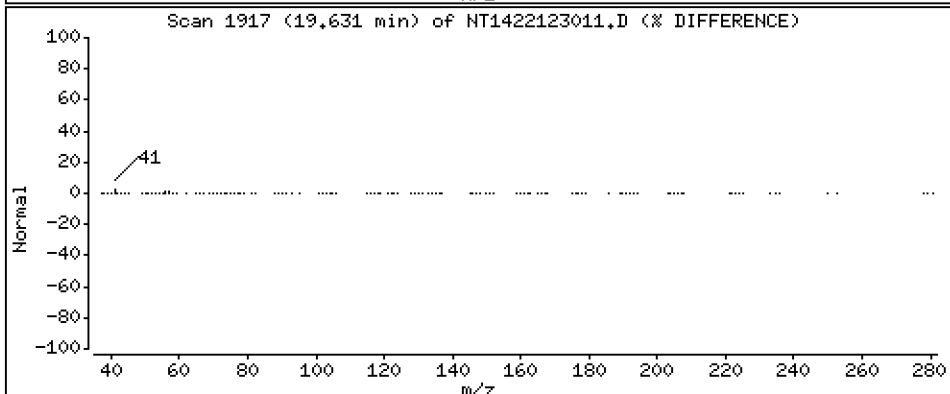
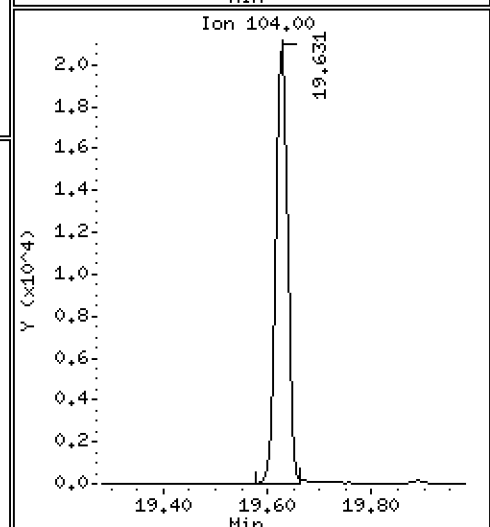
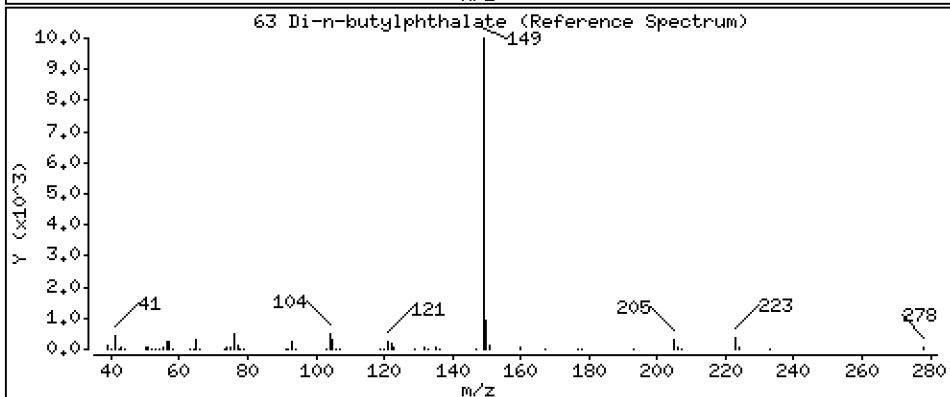
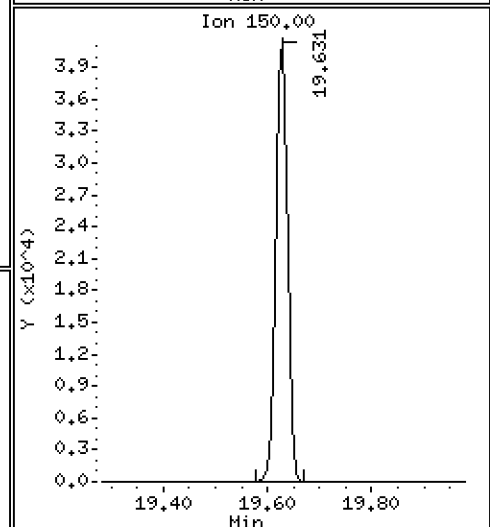
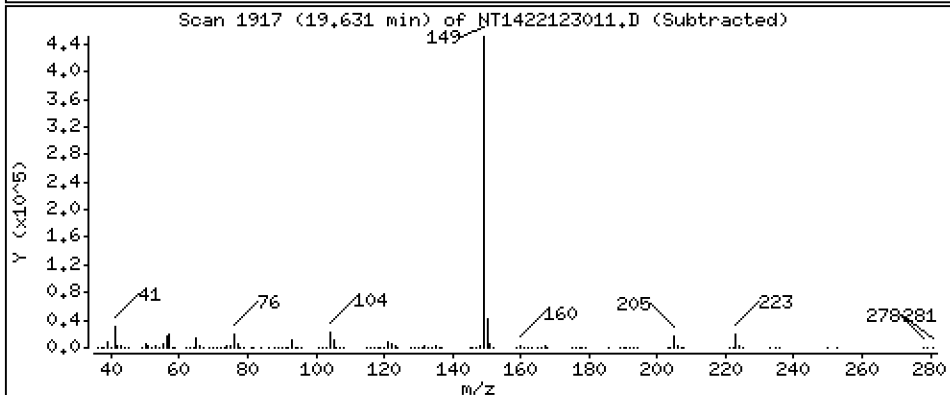
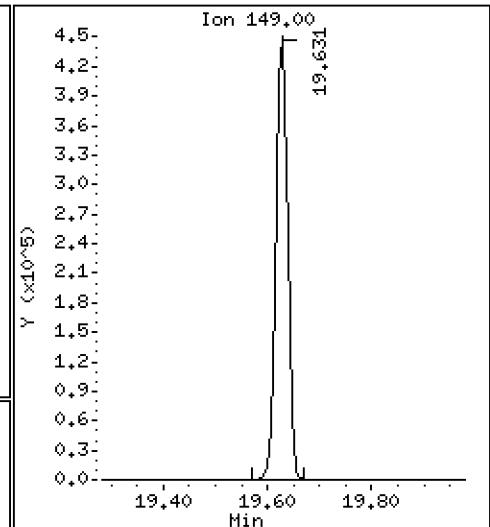
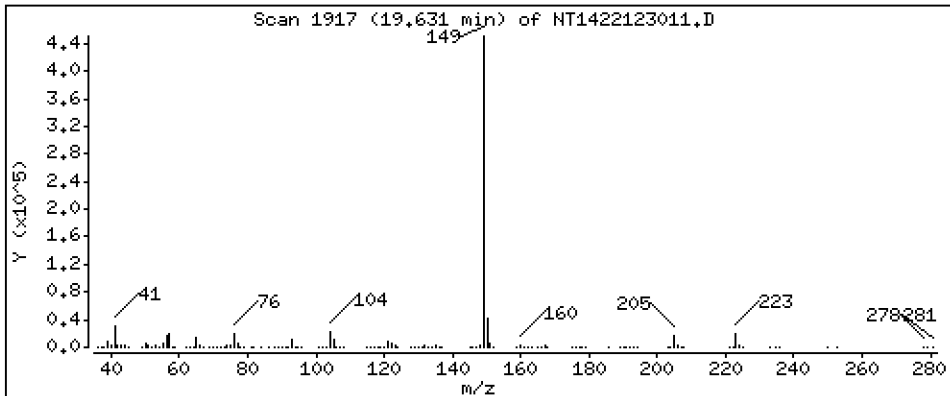
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,931 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

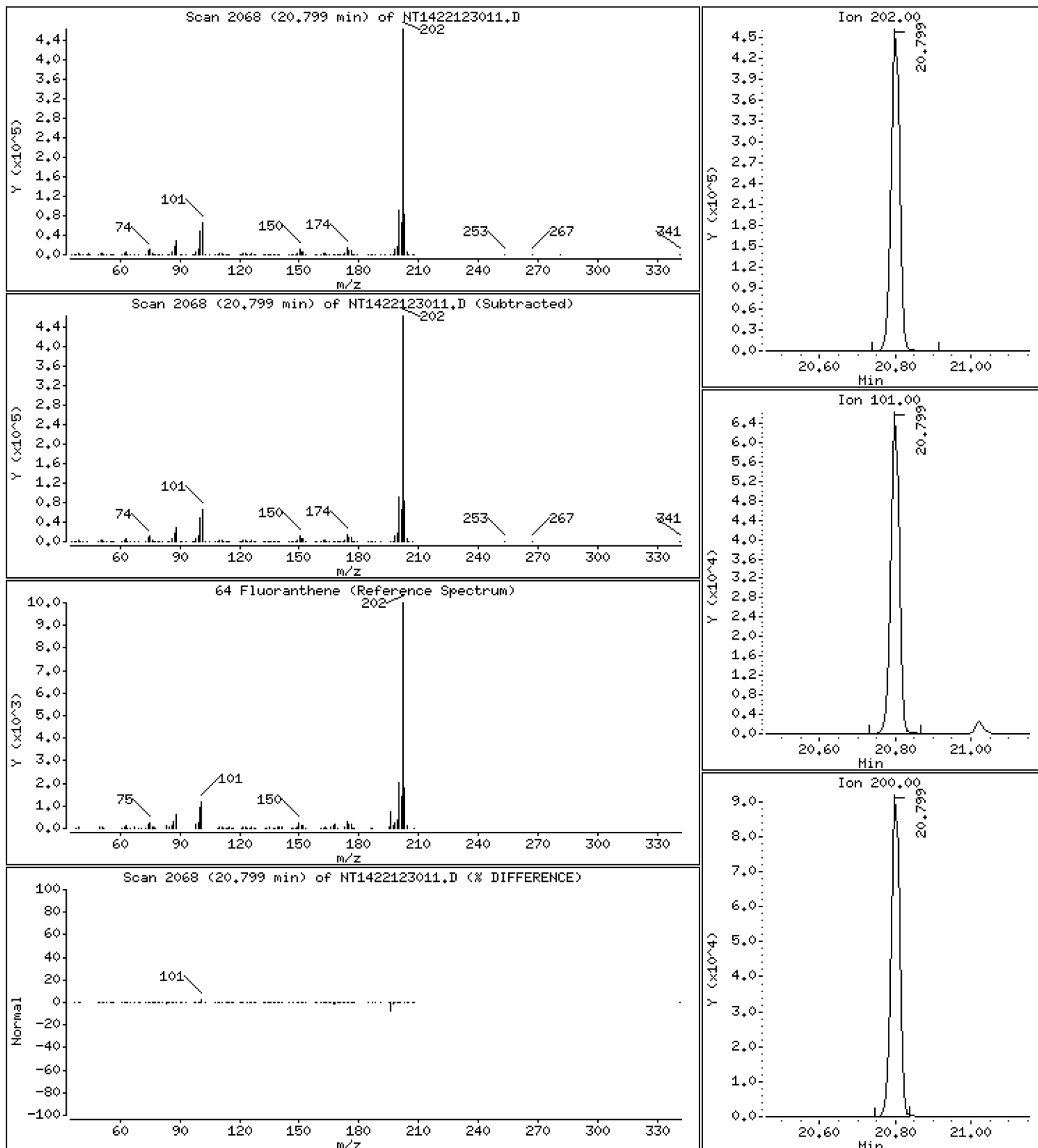
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 5,090 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

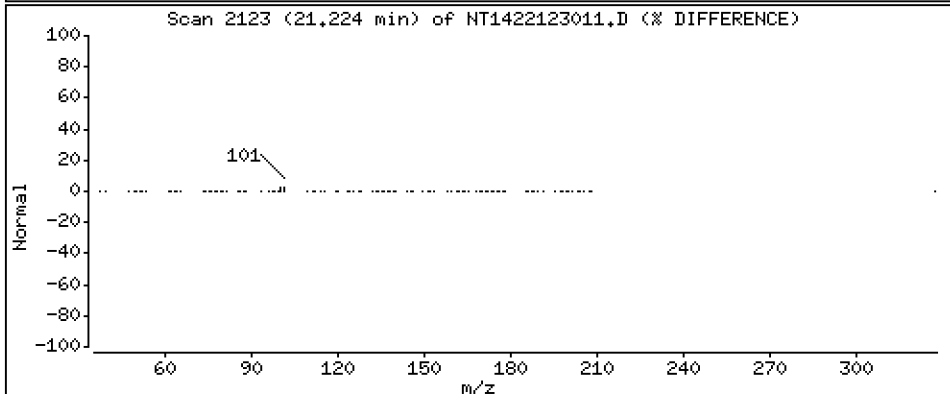
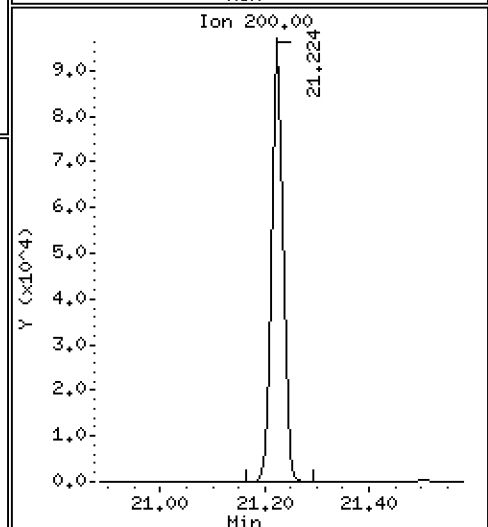
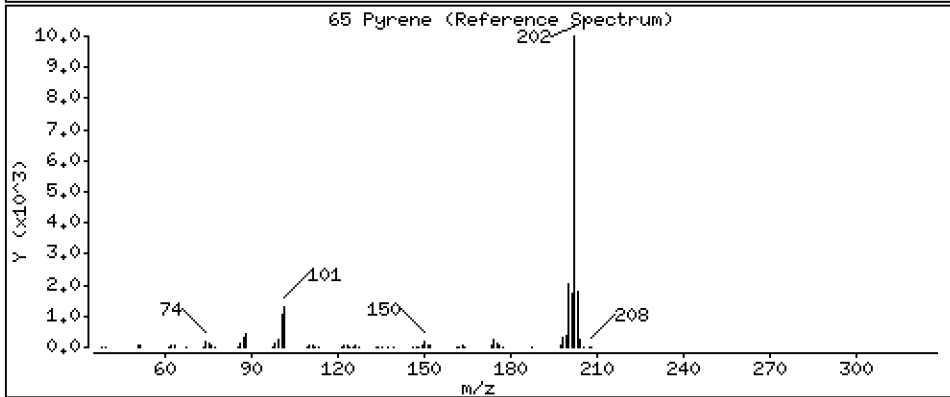
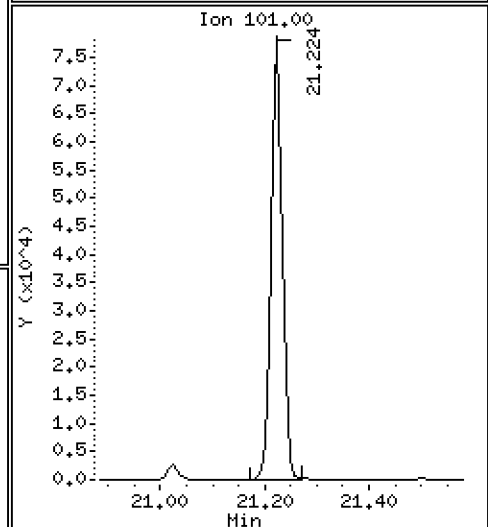
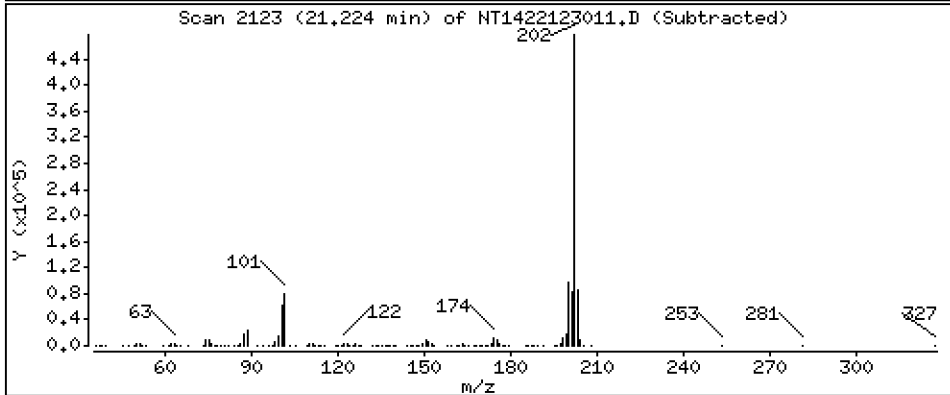
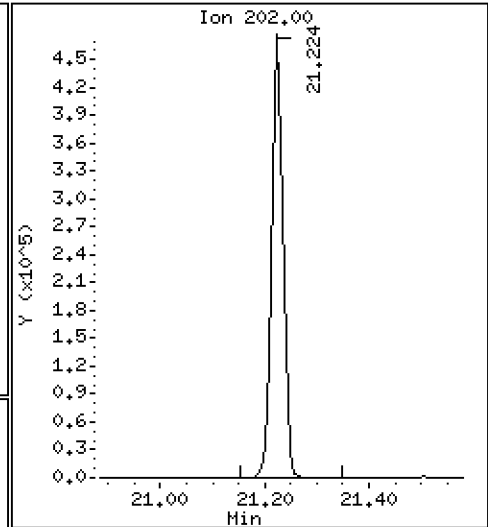
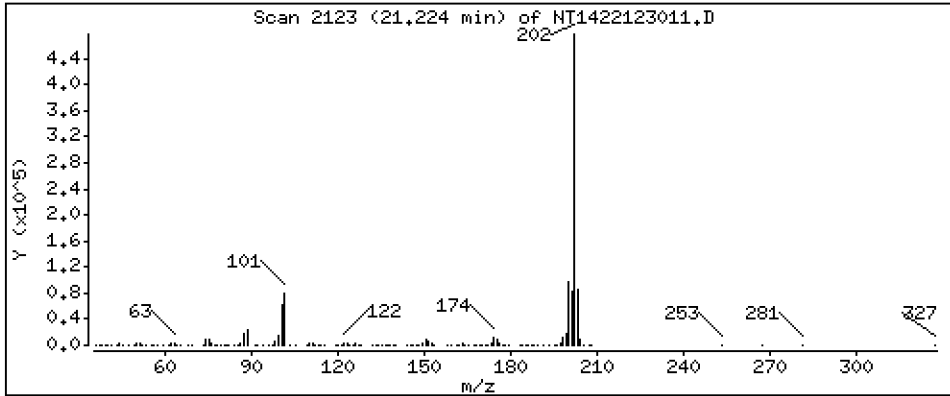
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 5,022 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

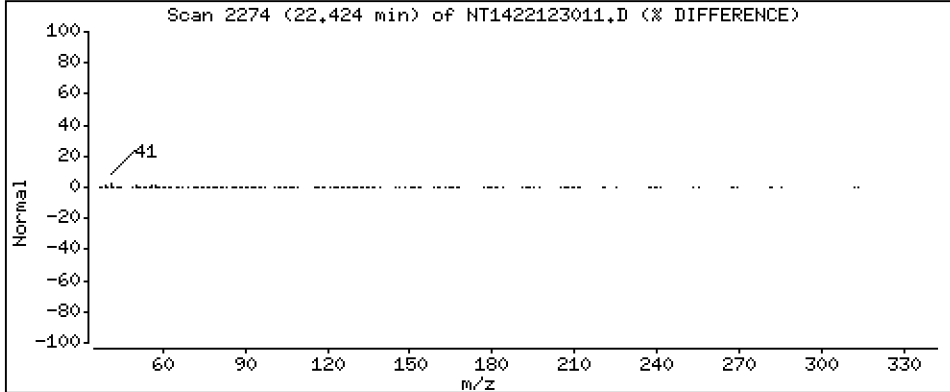
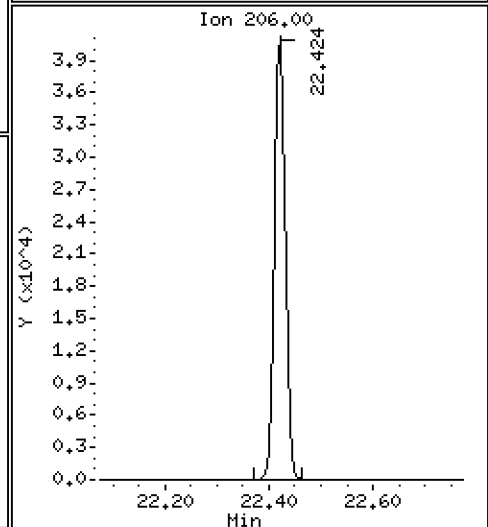
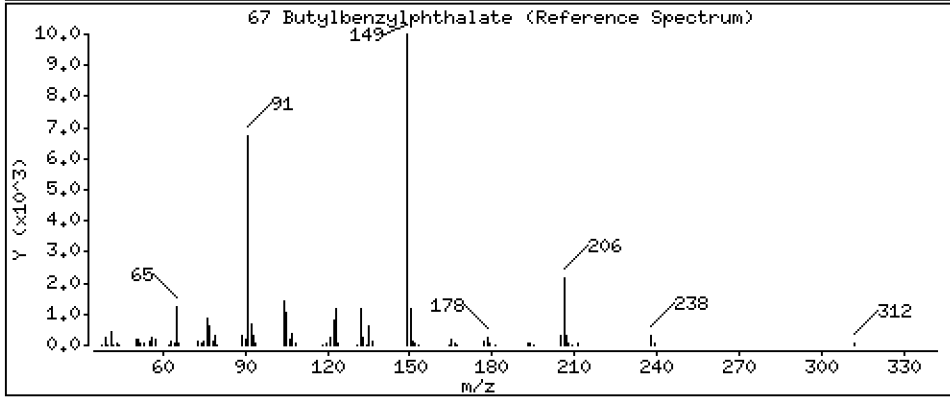
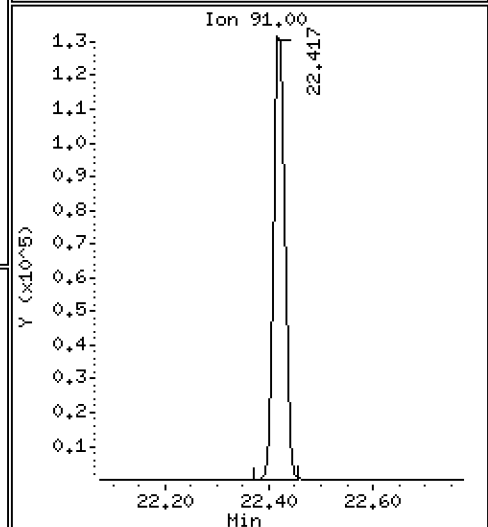
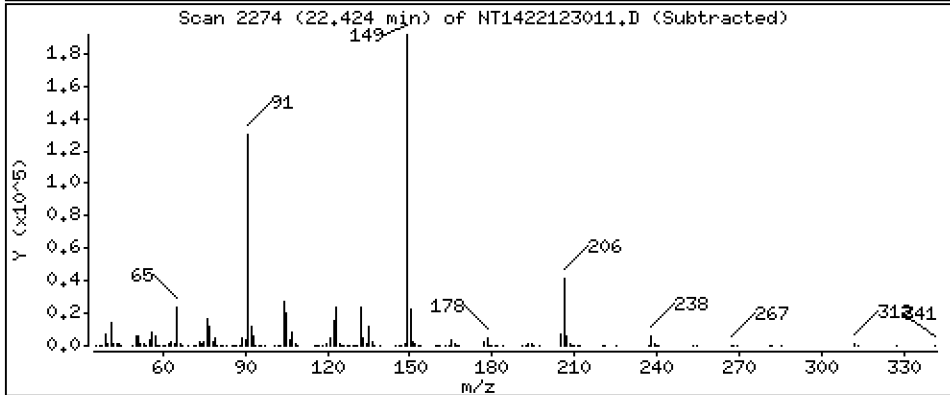
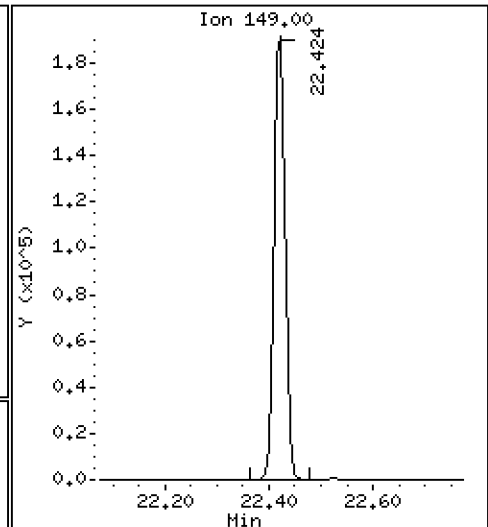
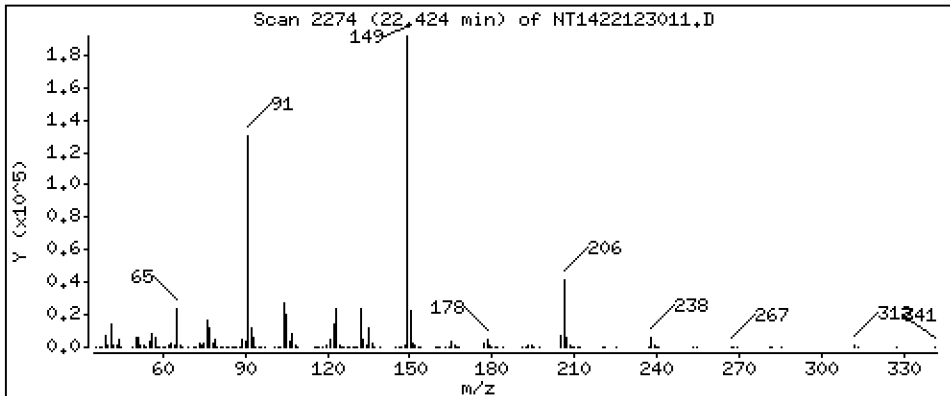
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,005 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

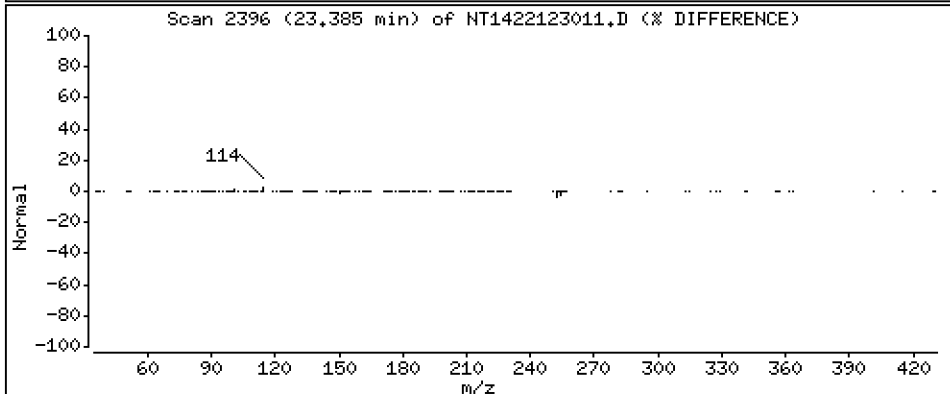
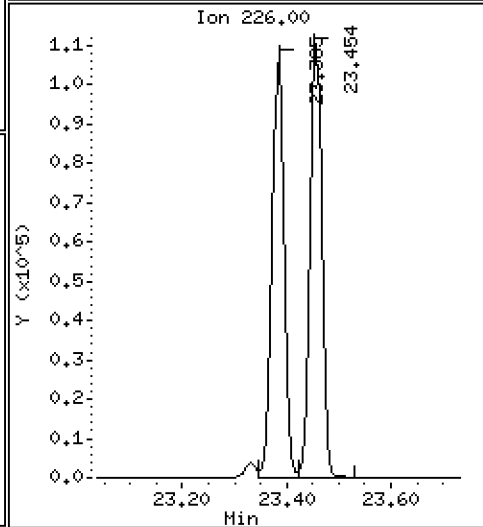
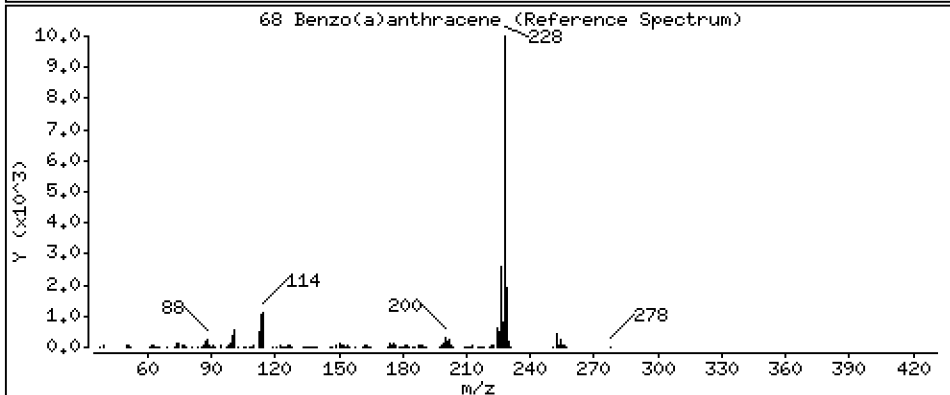
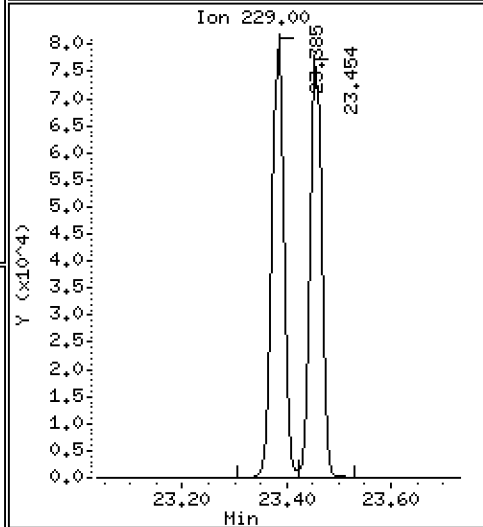
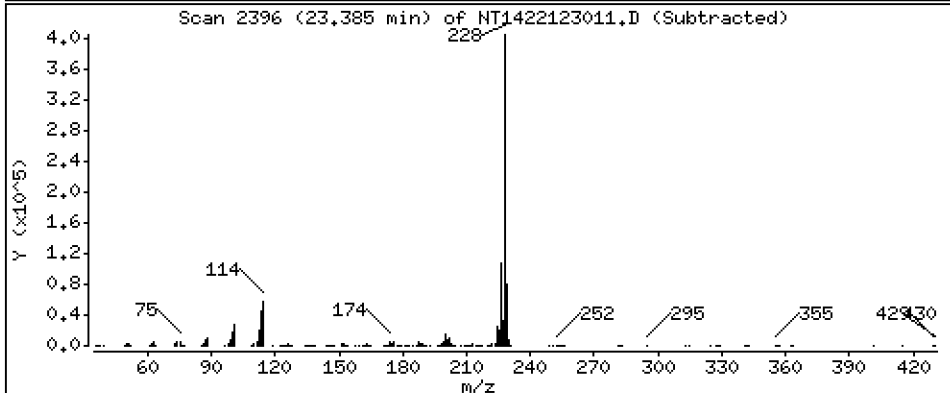
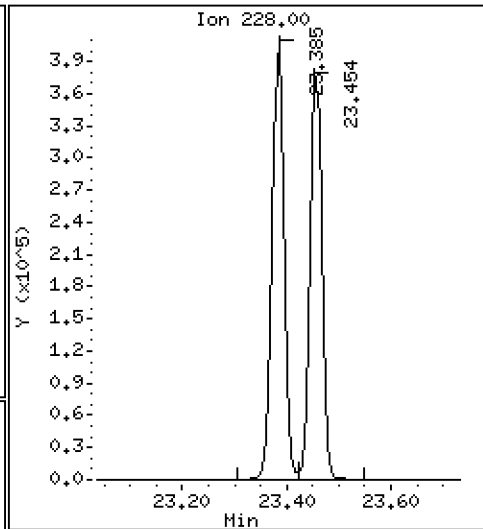
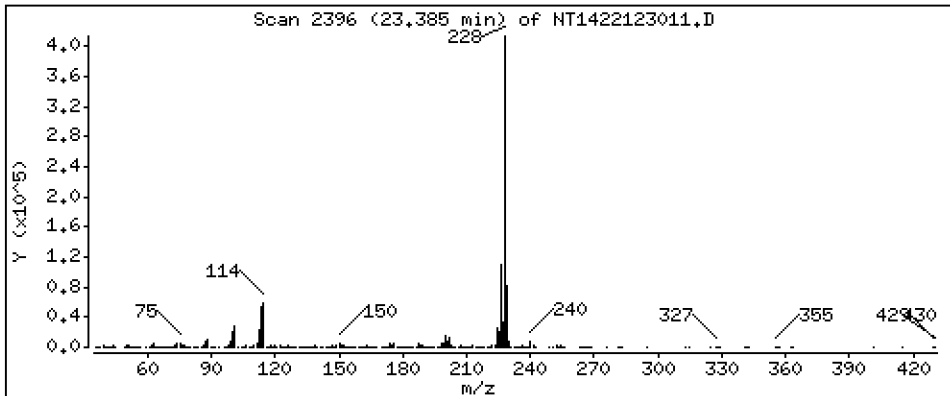
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,890 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

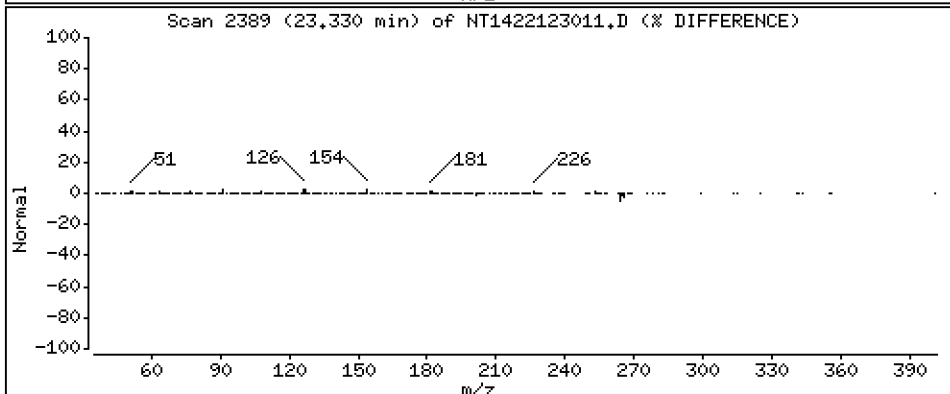
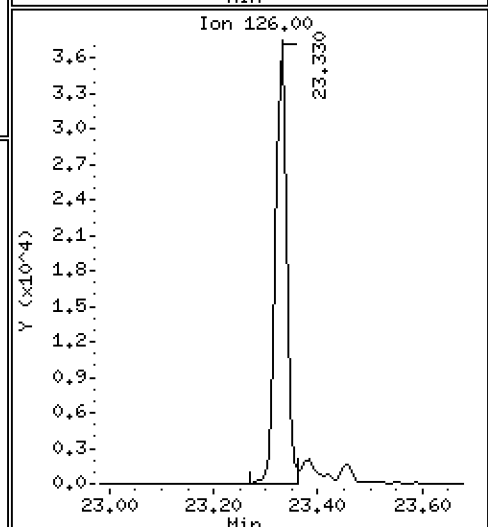
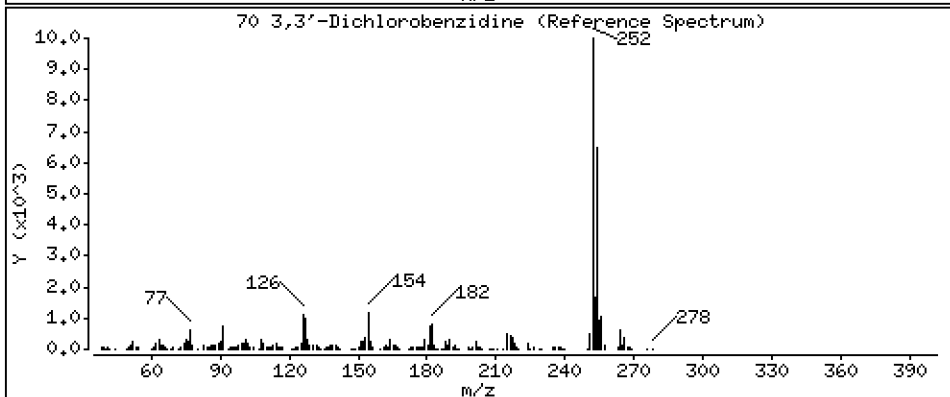
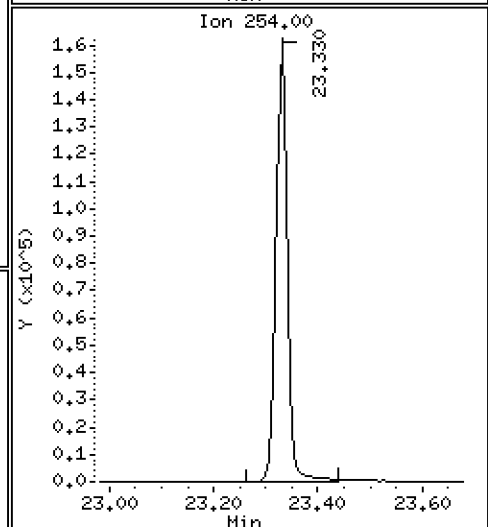
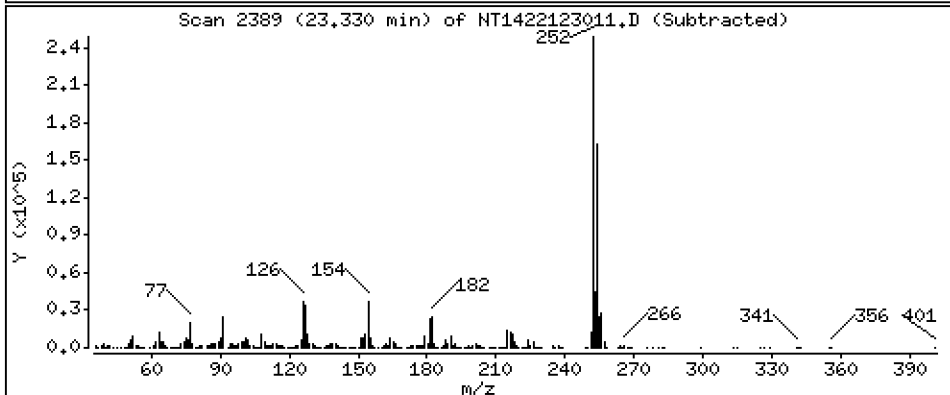
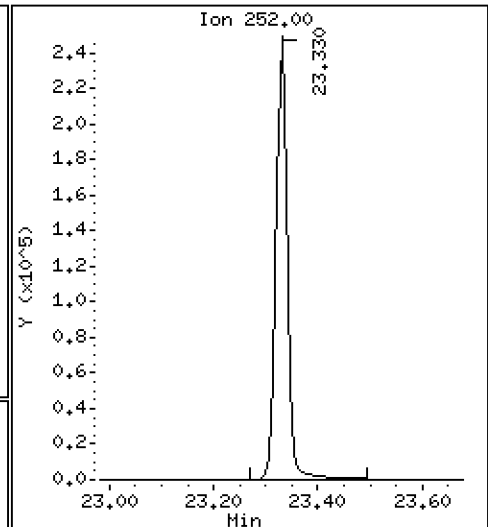
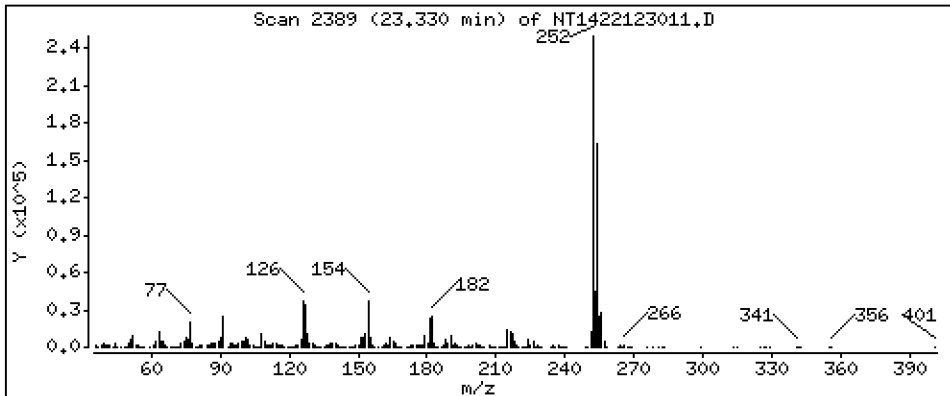
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 9,207 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

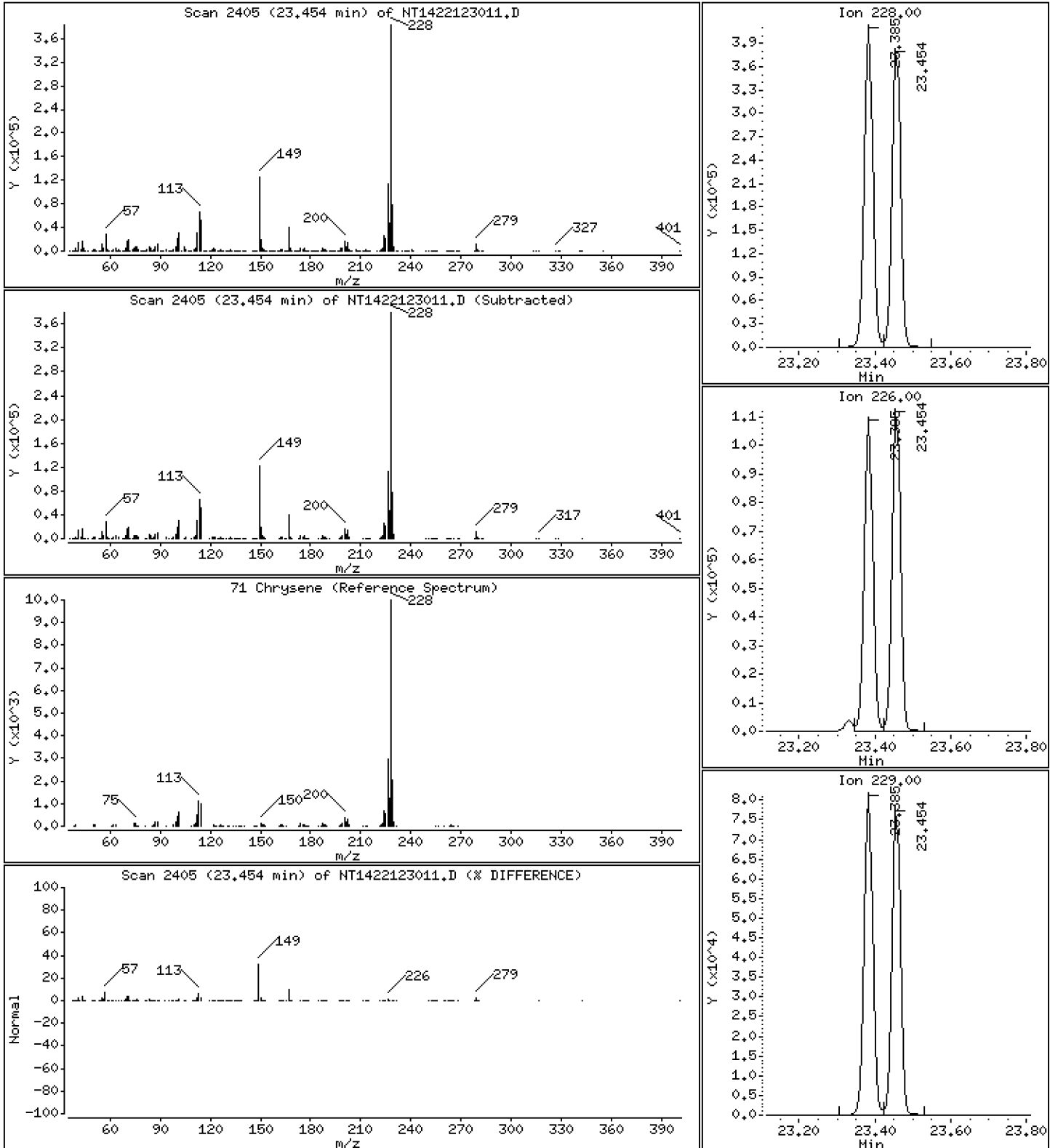
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 4,763 ug/mL

71 Chrysene



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

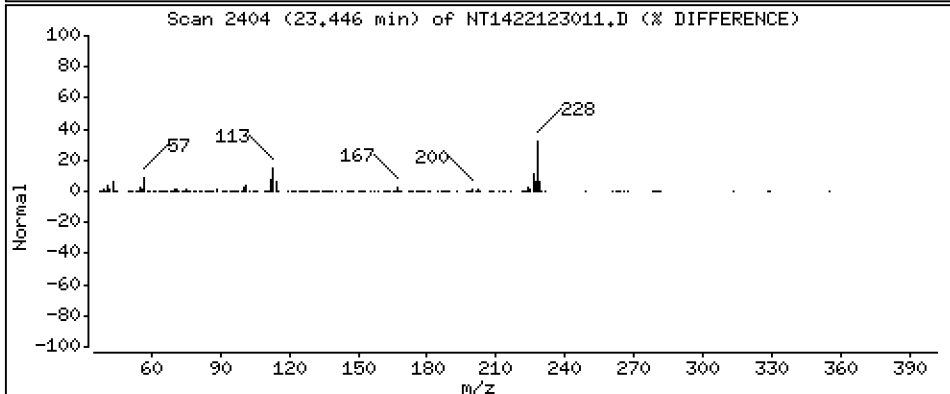
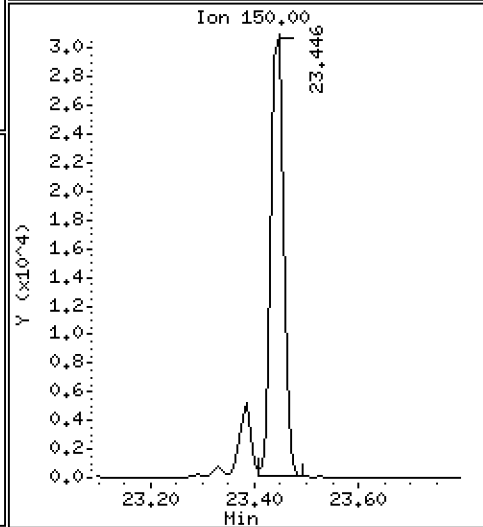
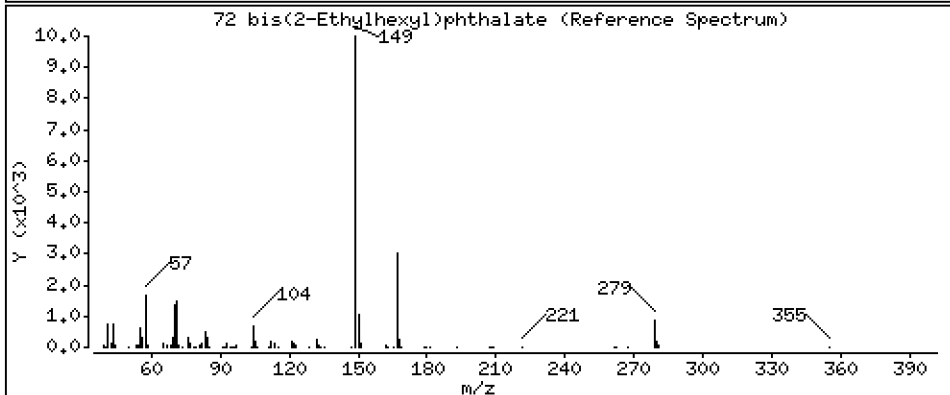
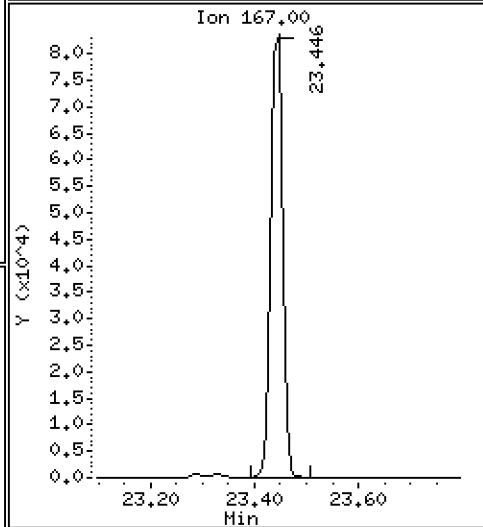
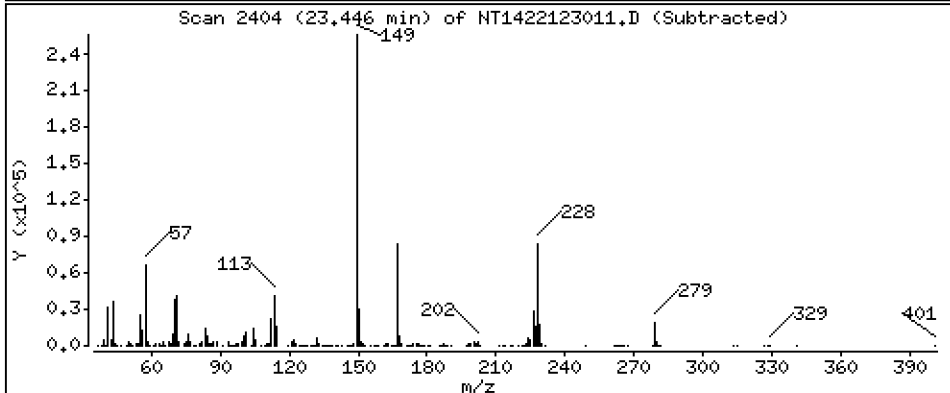
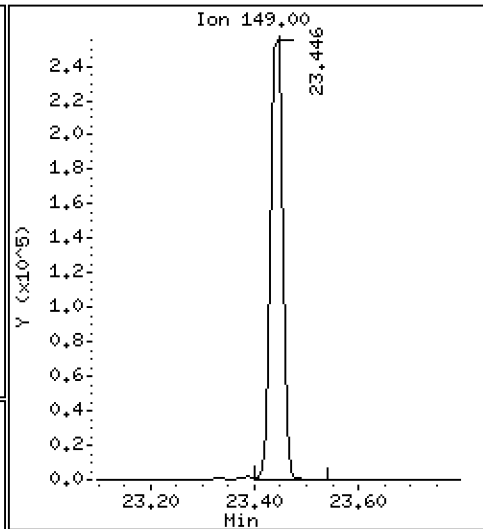
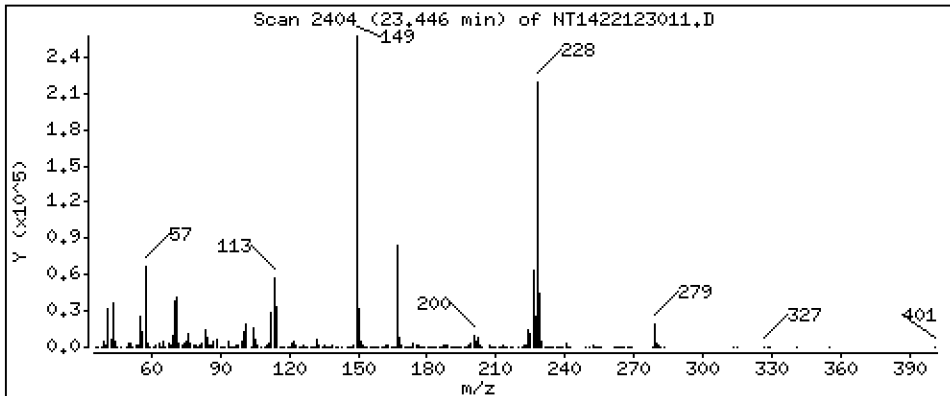
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,899 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

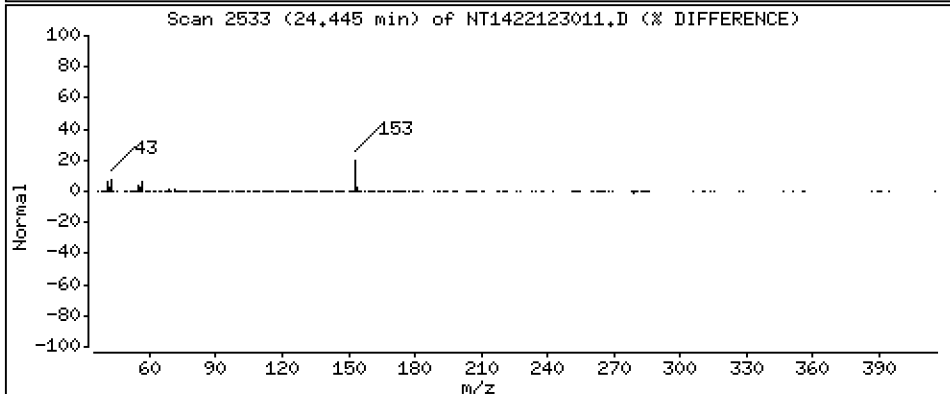
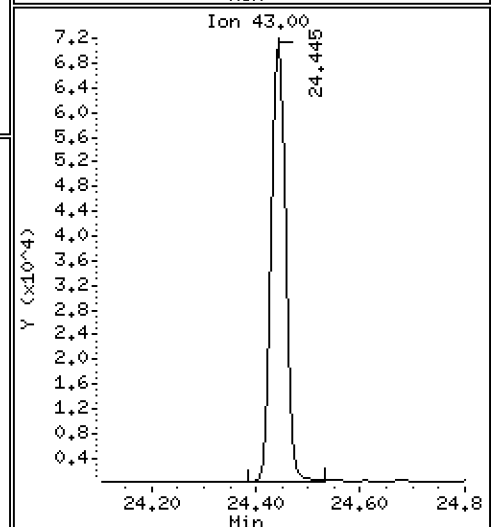
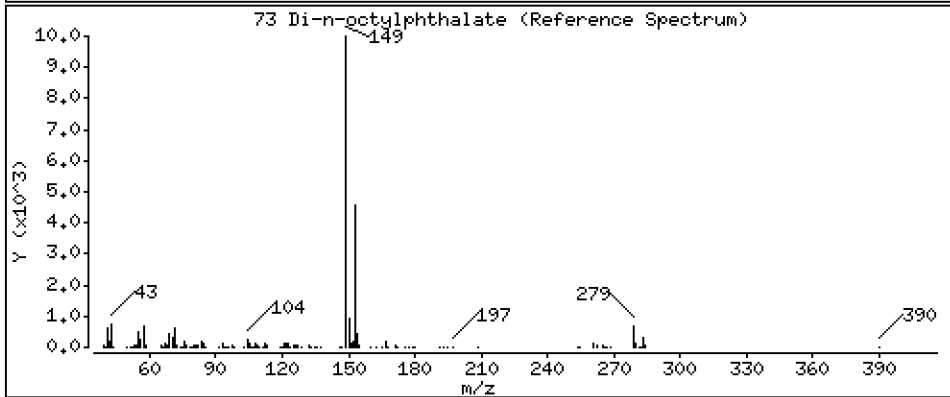
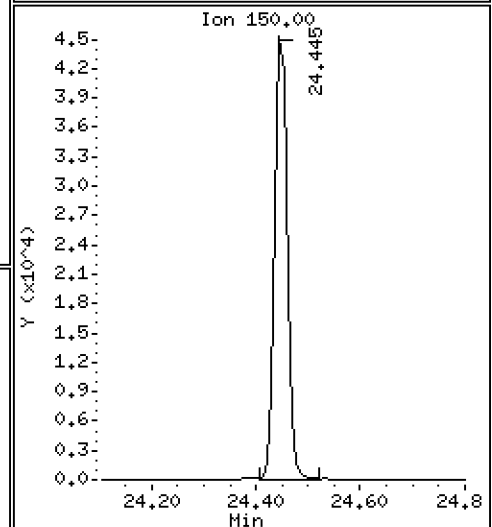
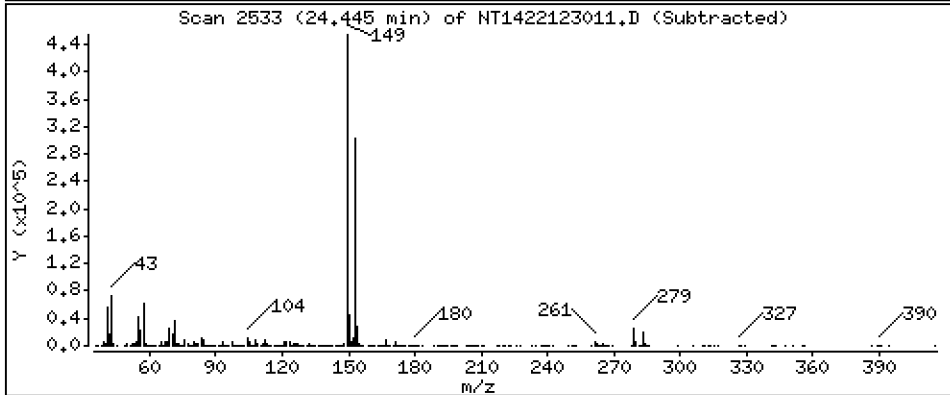
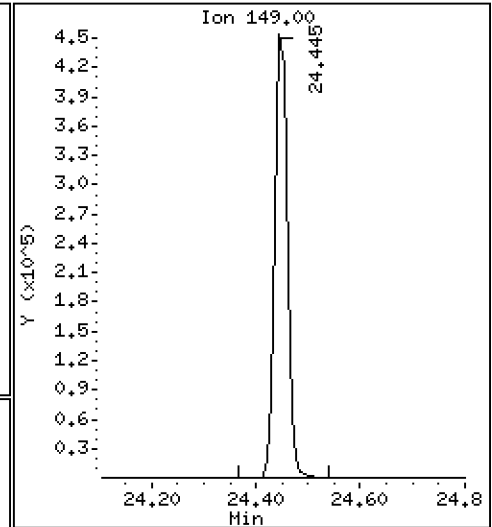
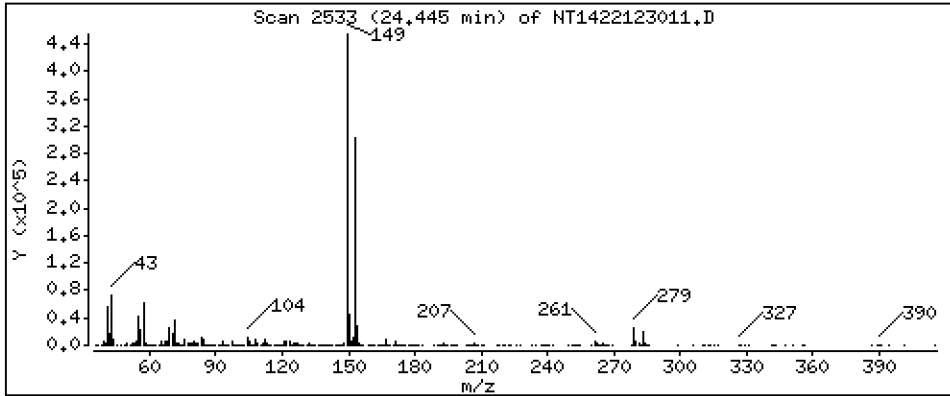
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 5,083 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

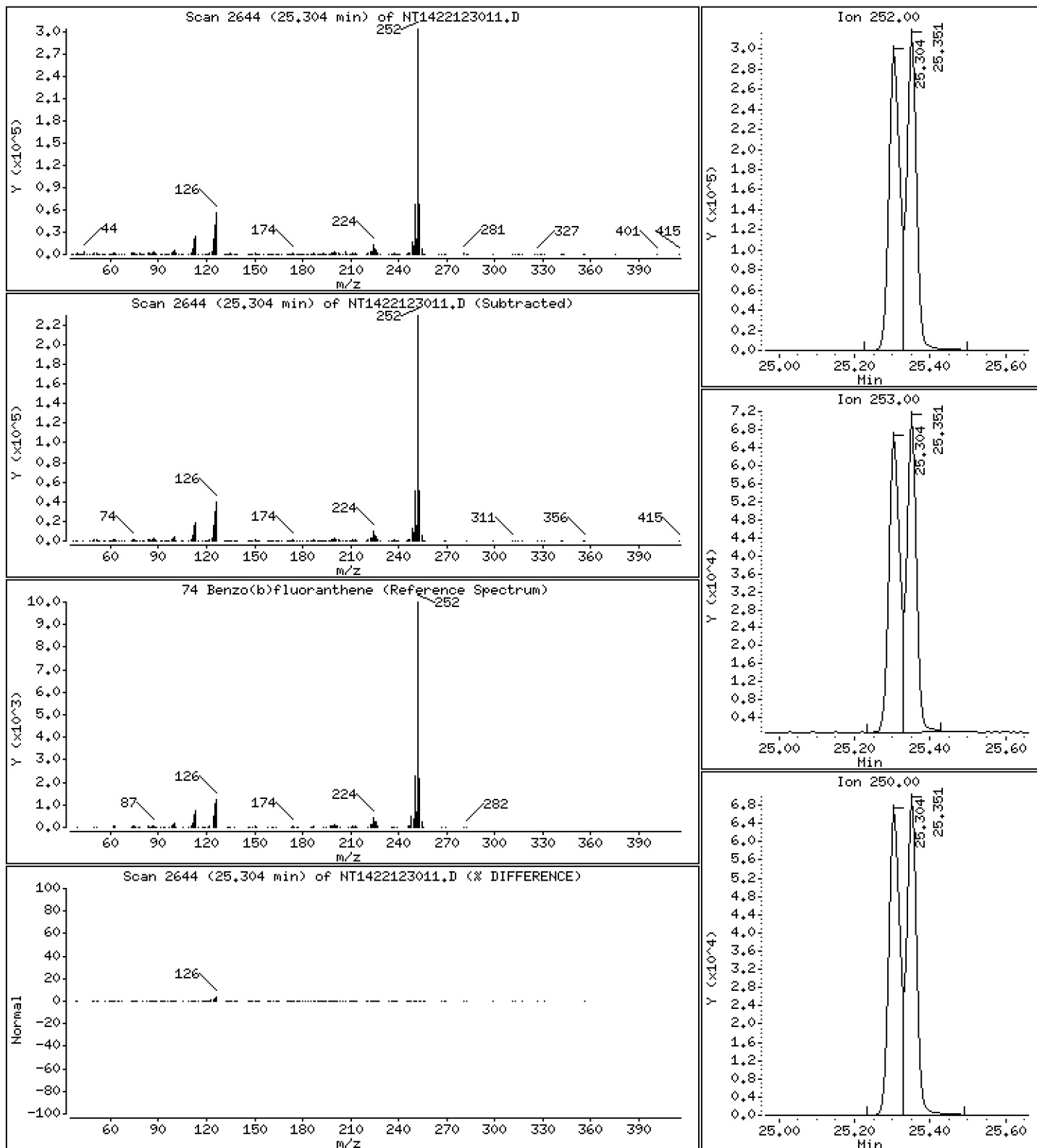
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,893 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

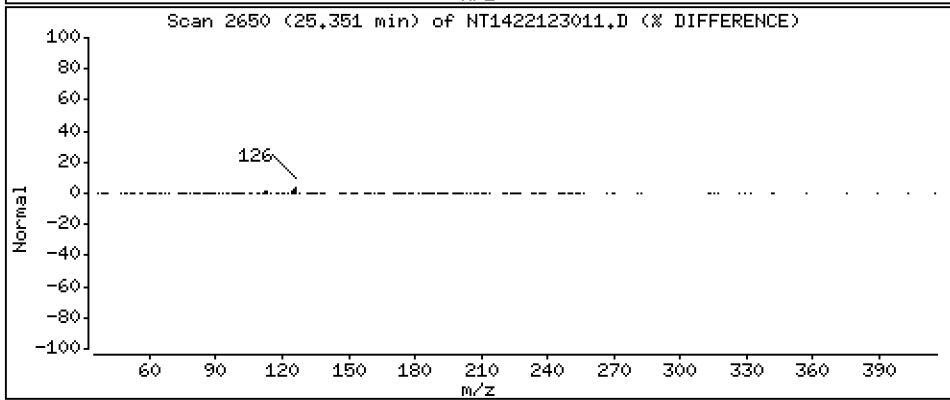
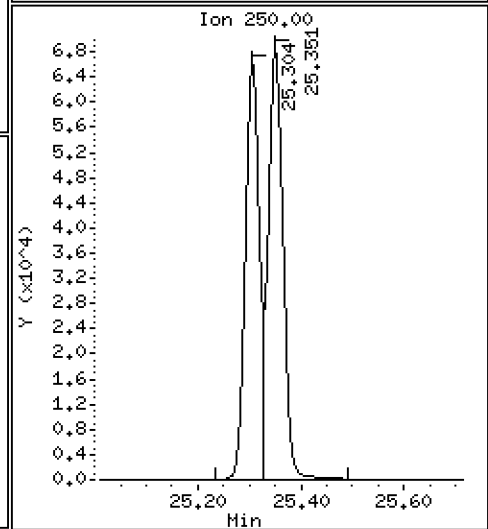
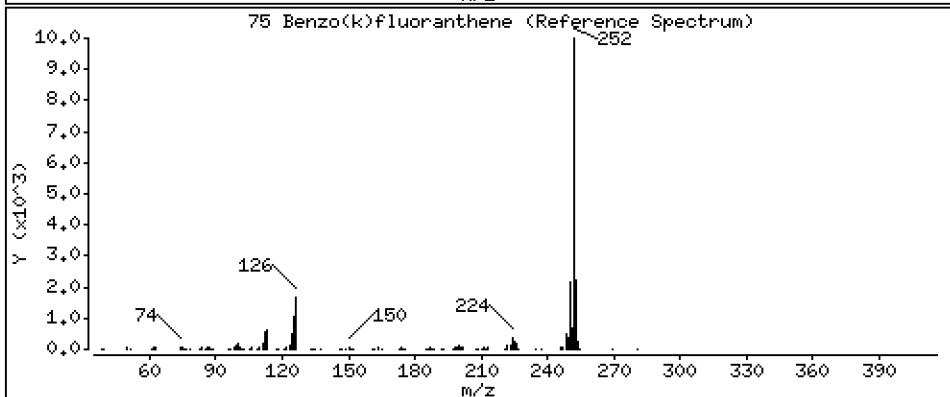
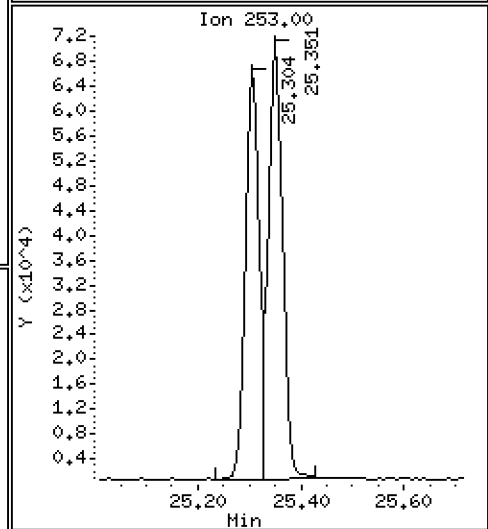
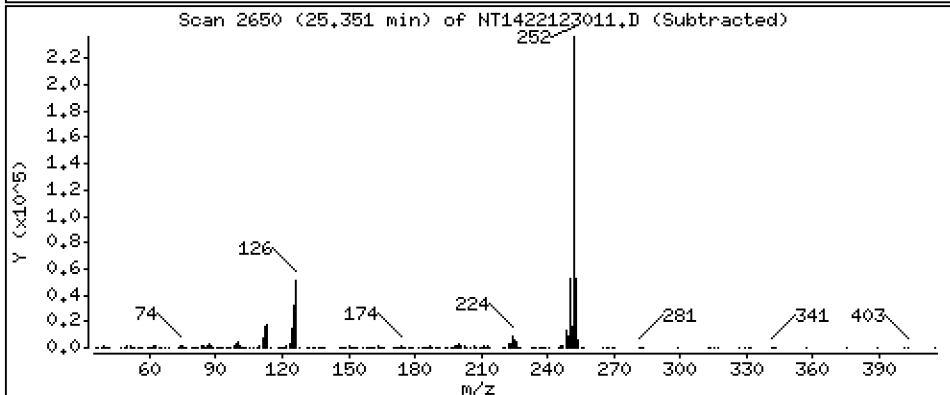
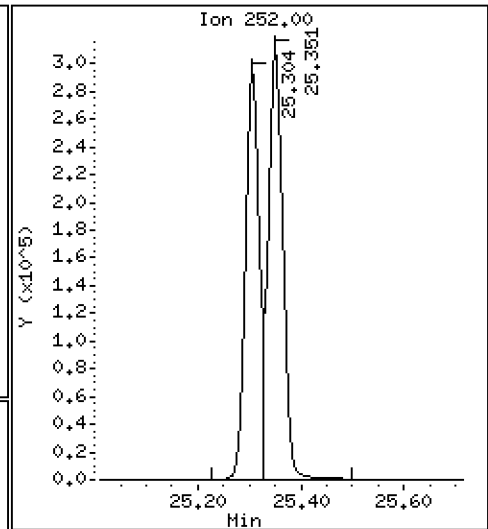
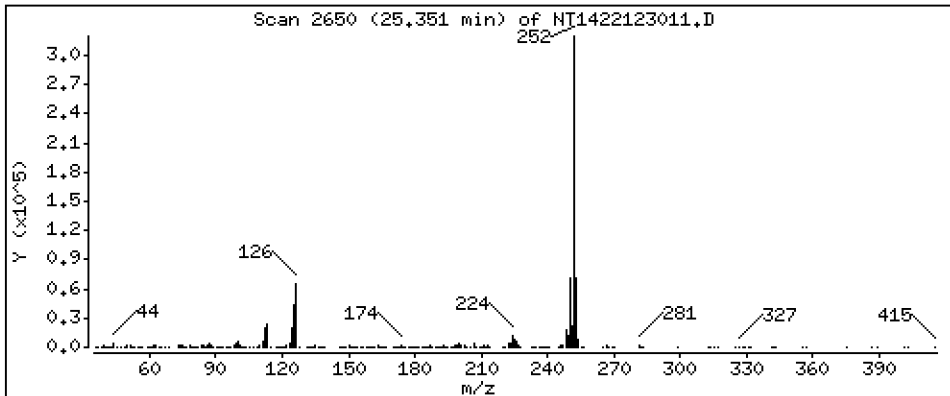
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,093 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

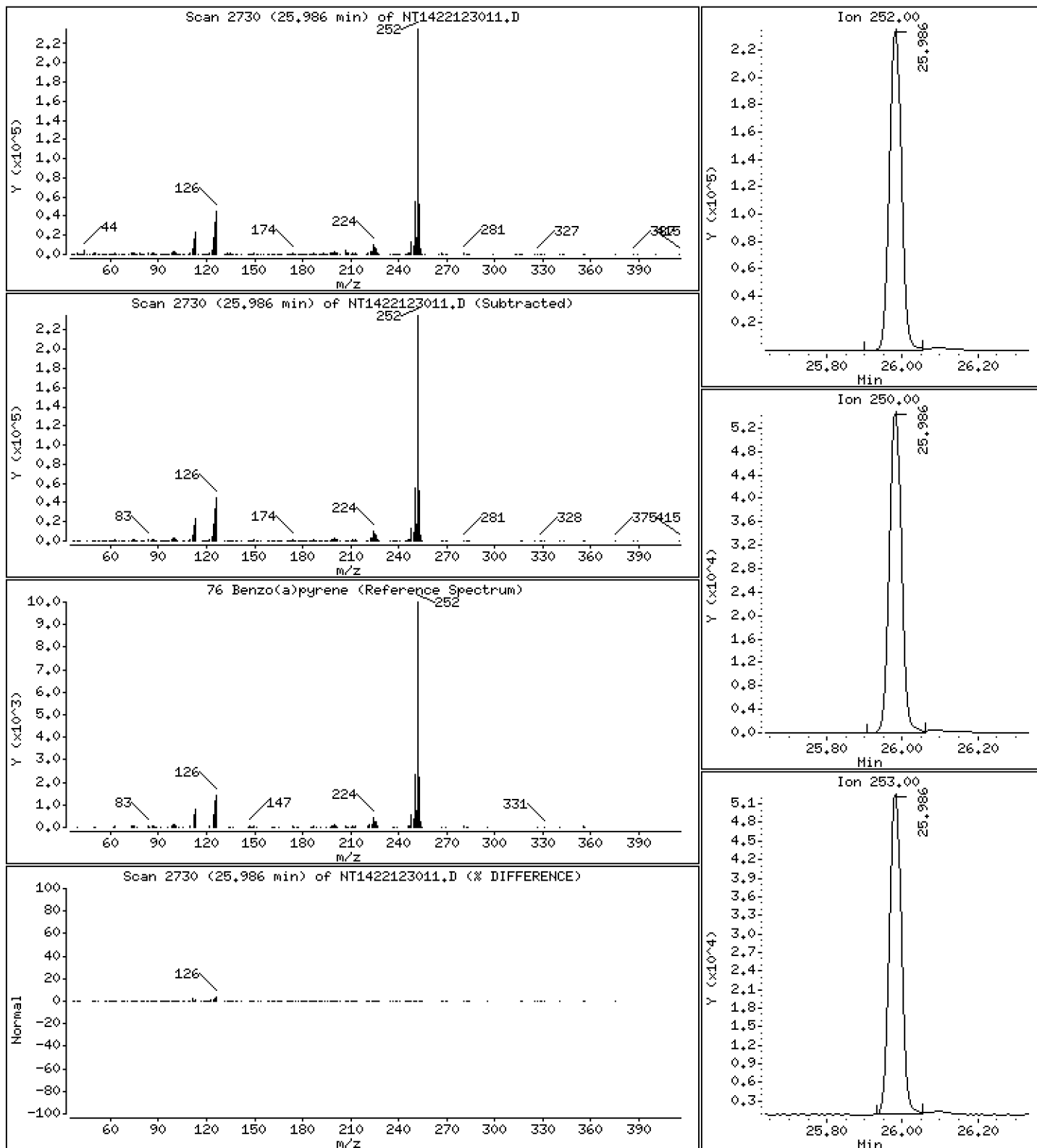
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,092 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

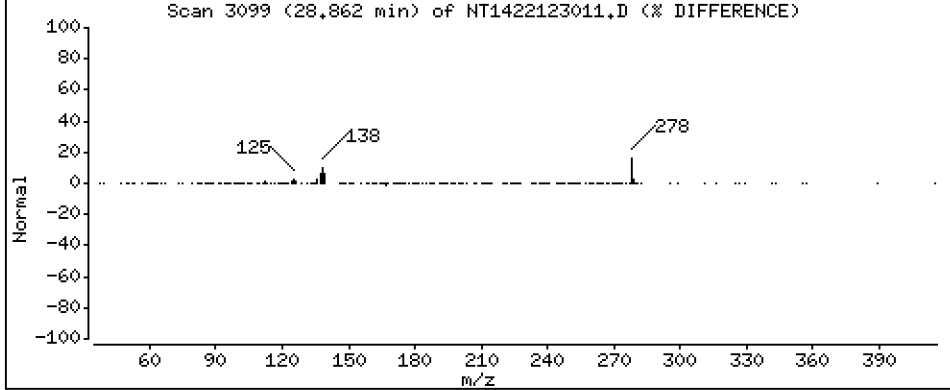
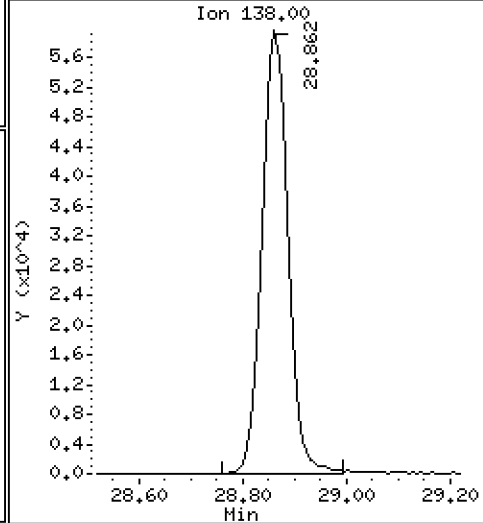
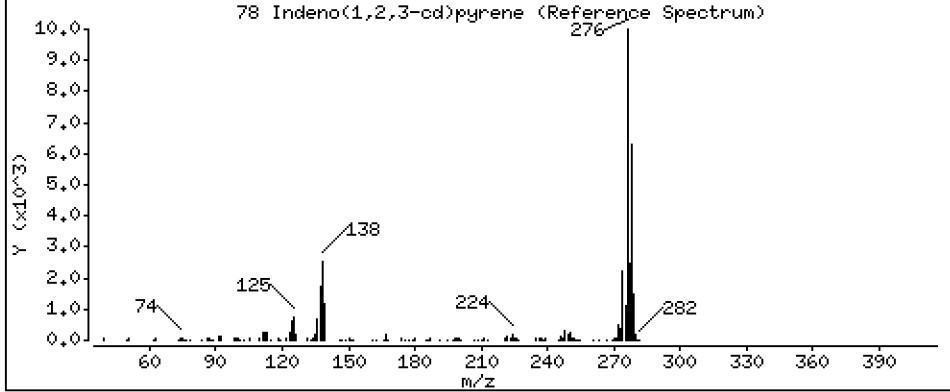
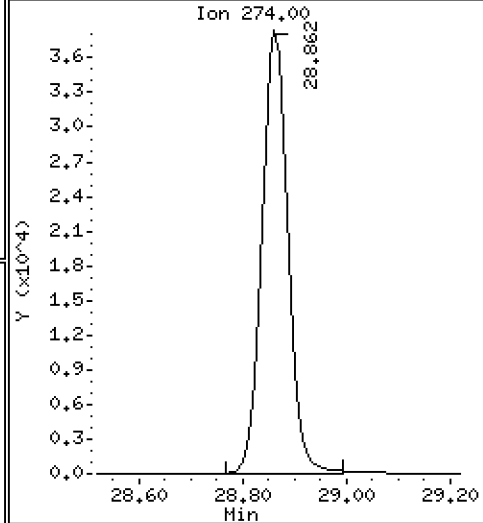
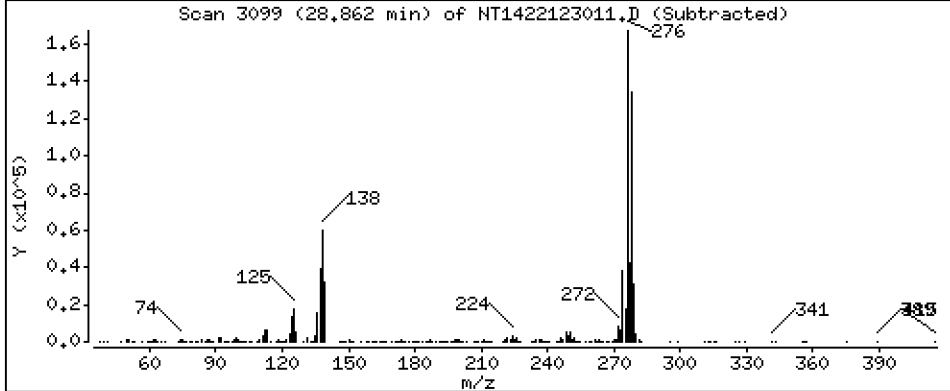
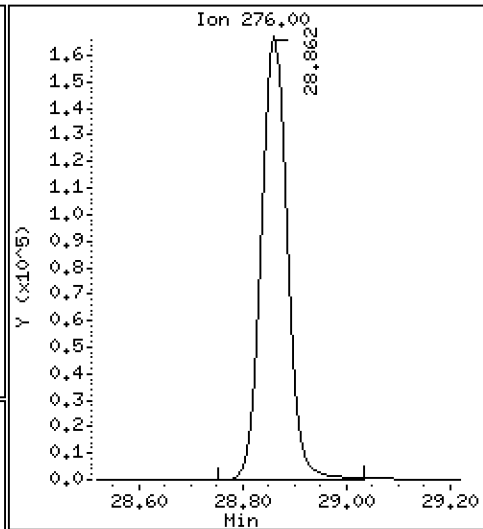
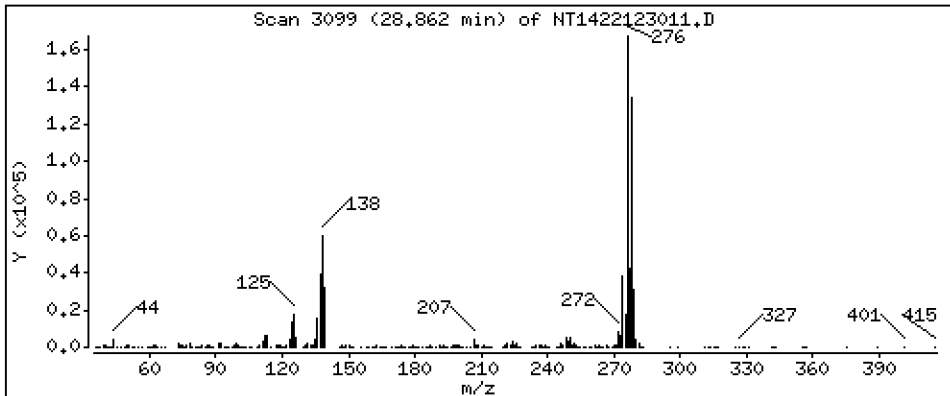
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 5,128 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

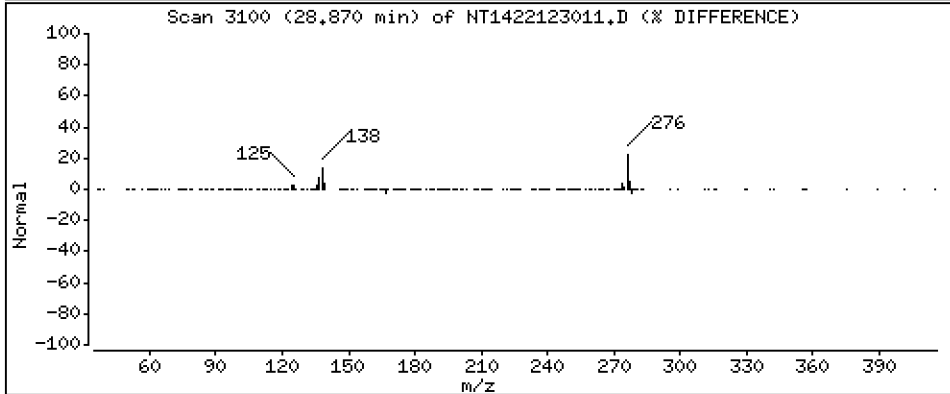
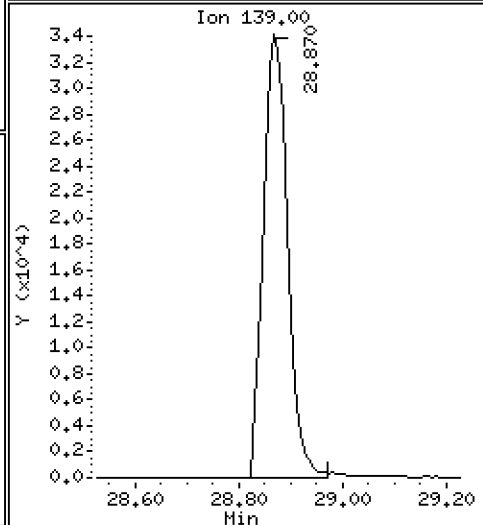
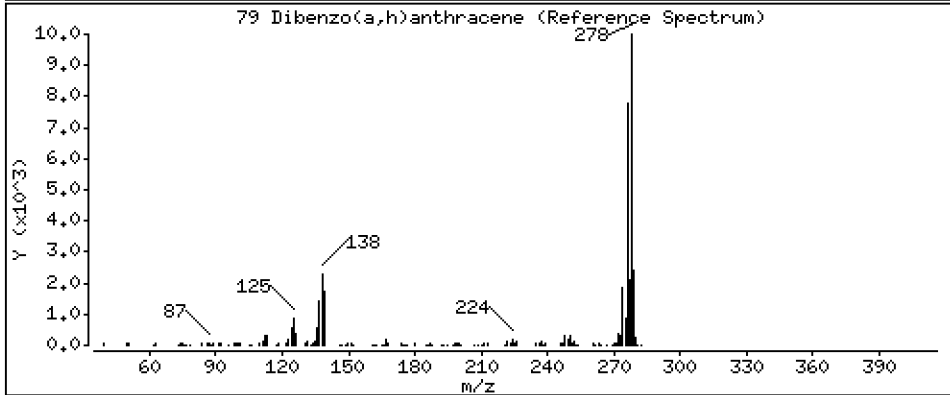
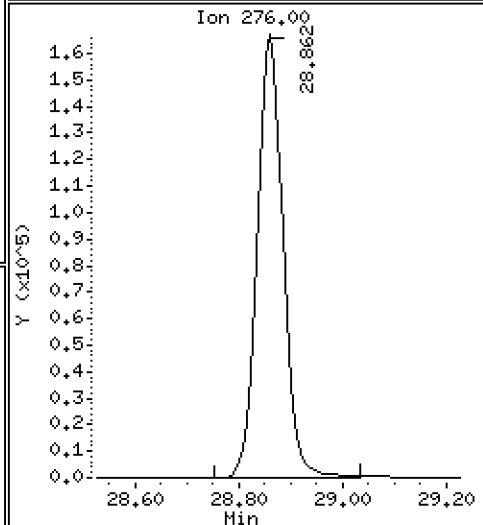
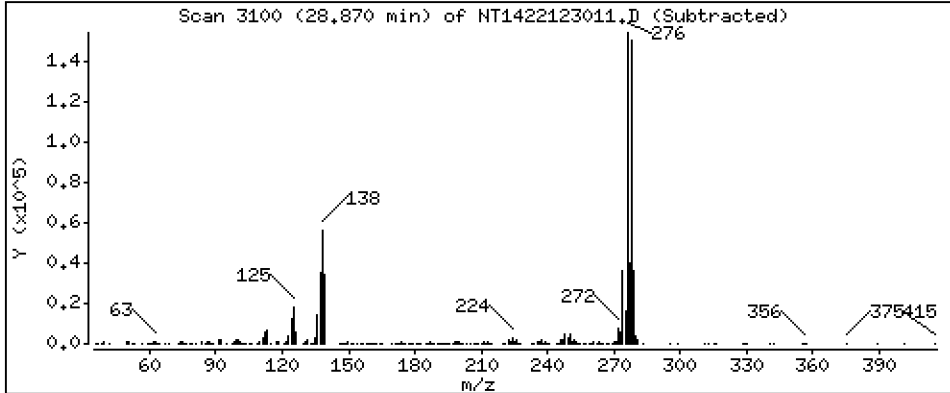
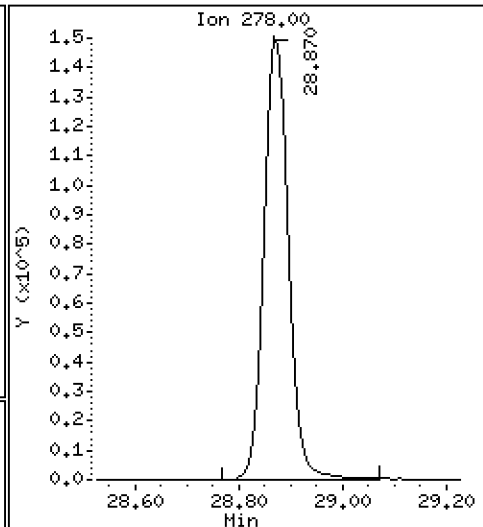
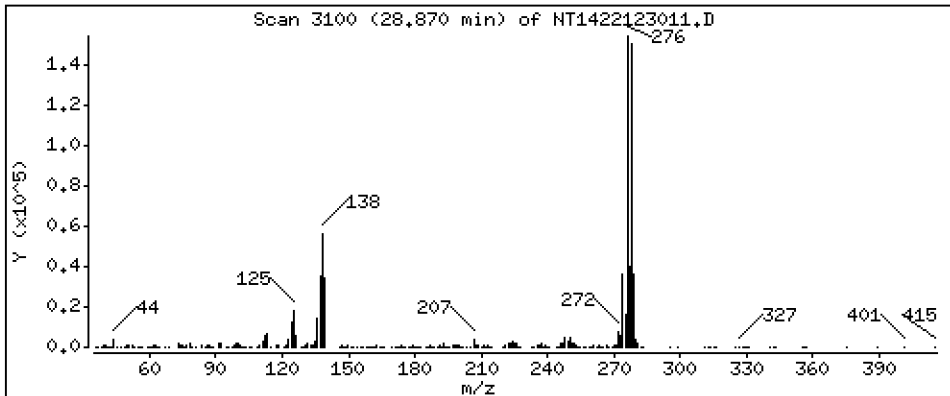
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 5,087 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

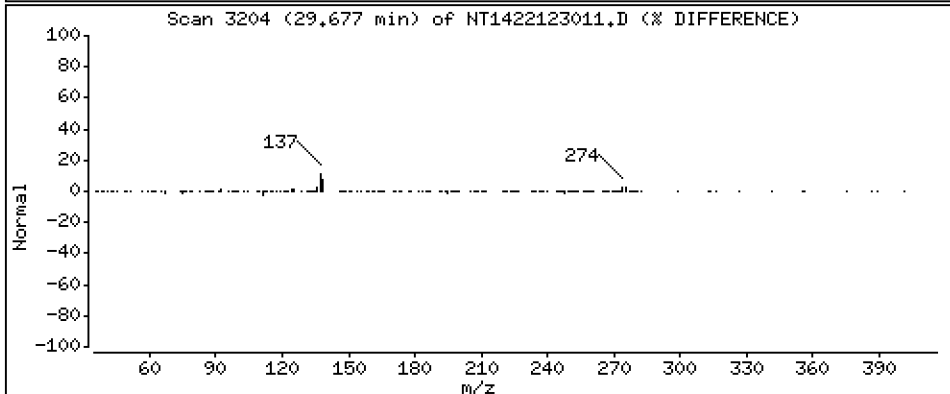
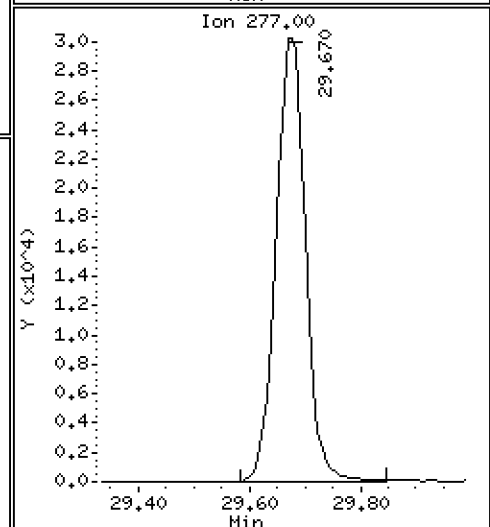
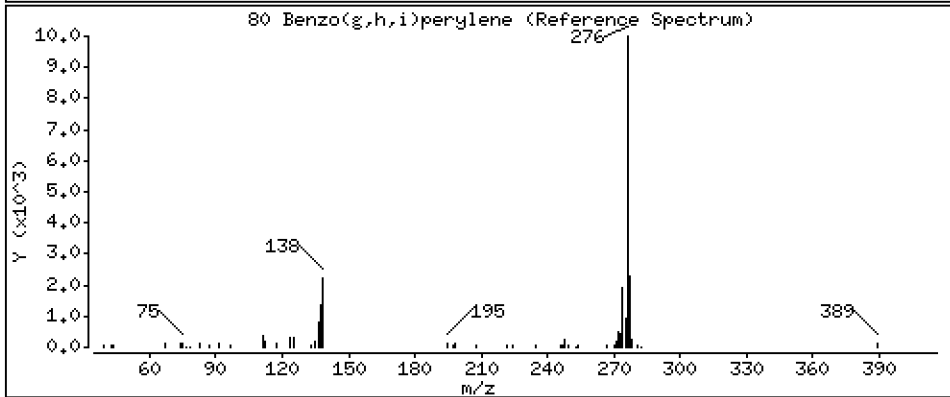
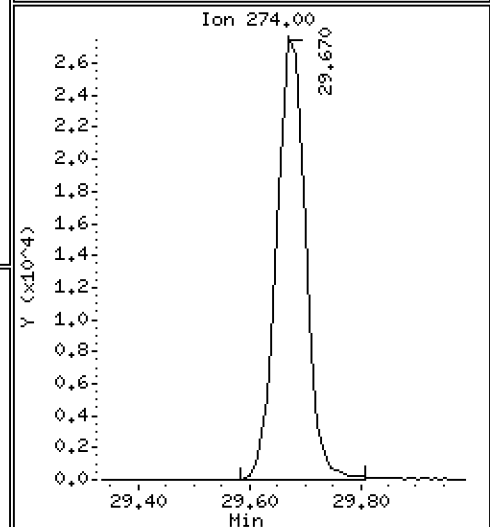
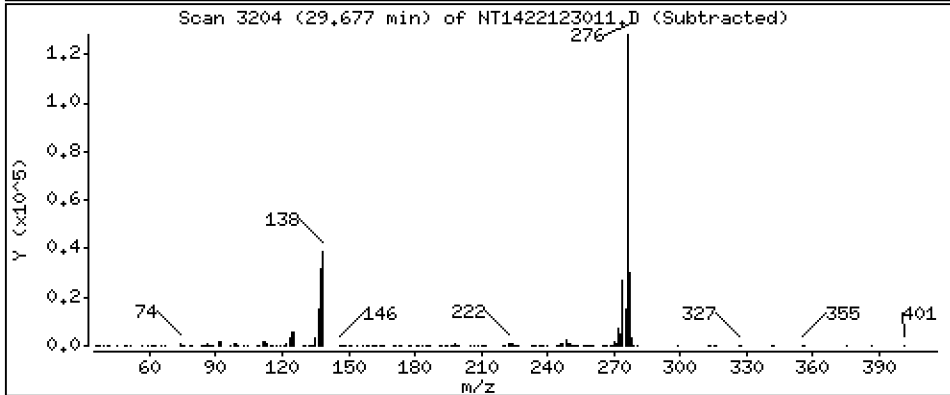
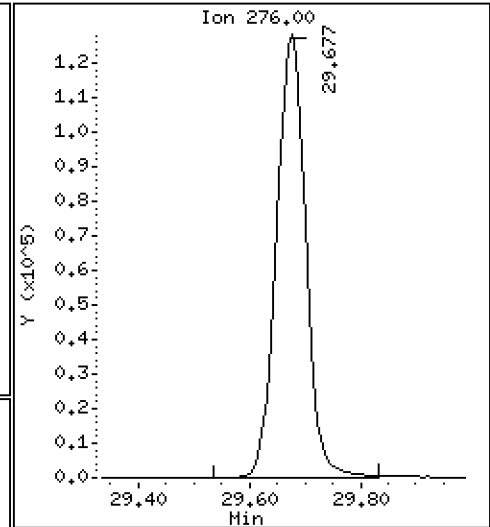
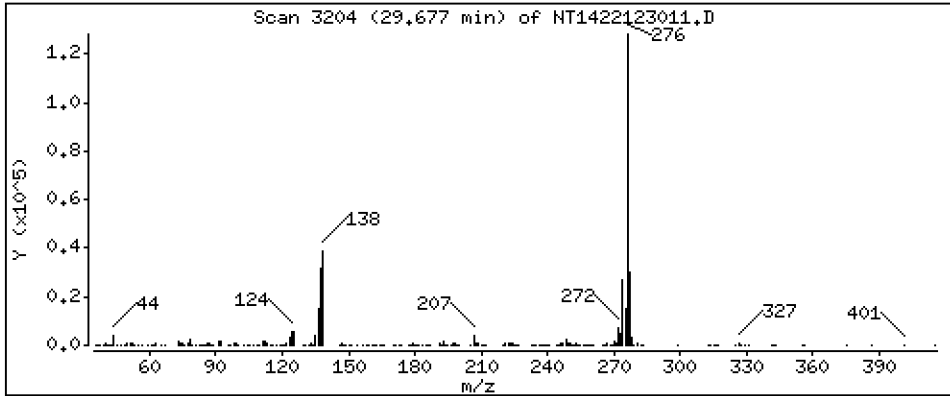
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 5,037 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

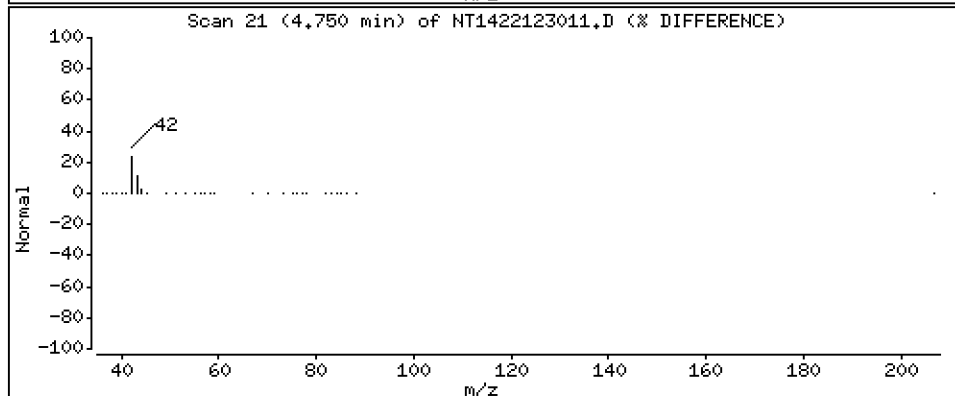
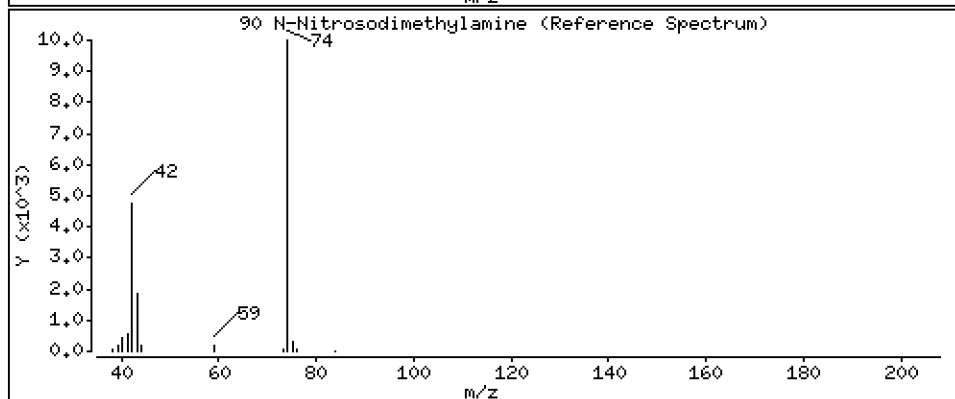
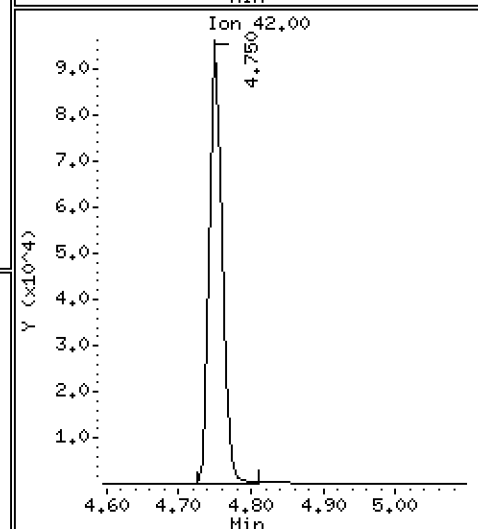
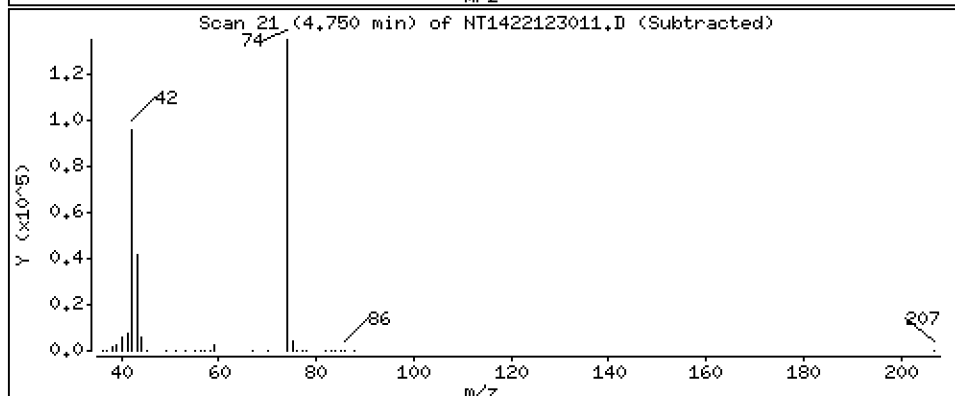
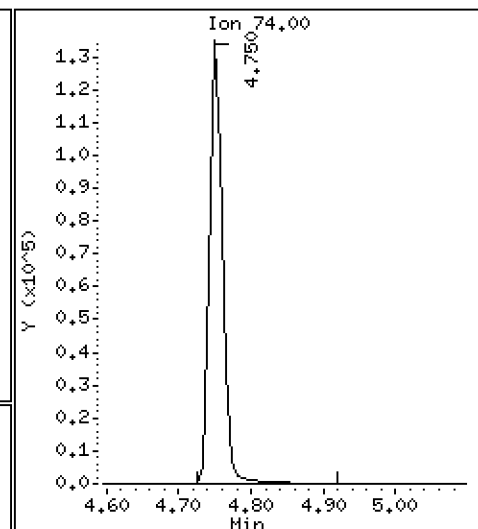
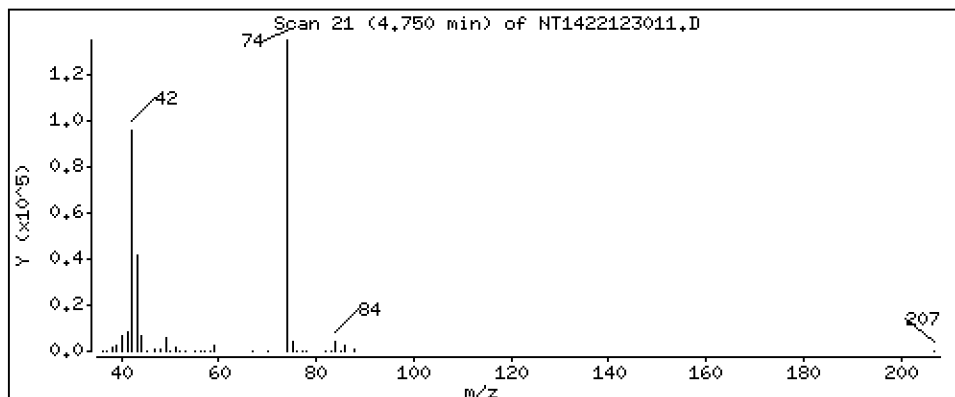
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 5,154 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

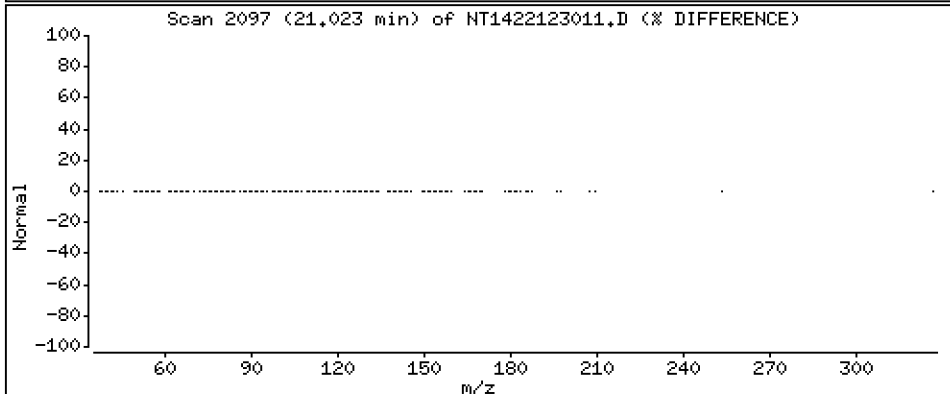
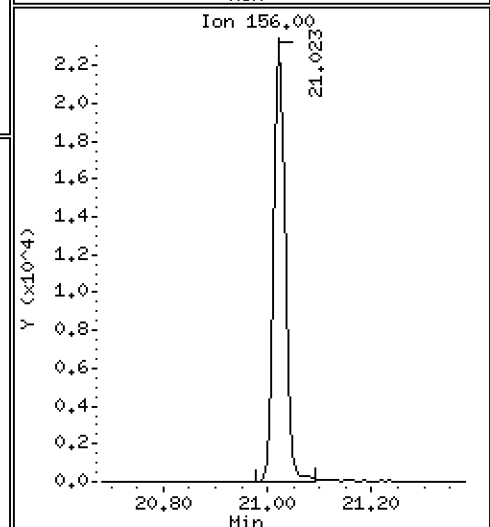
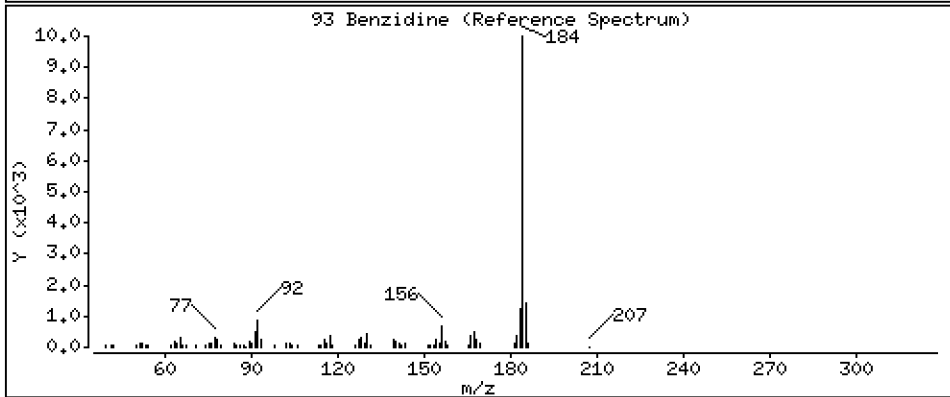
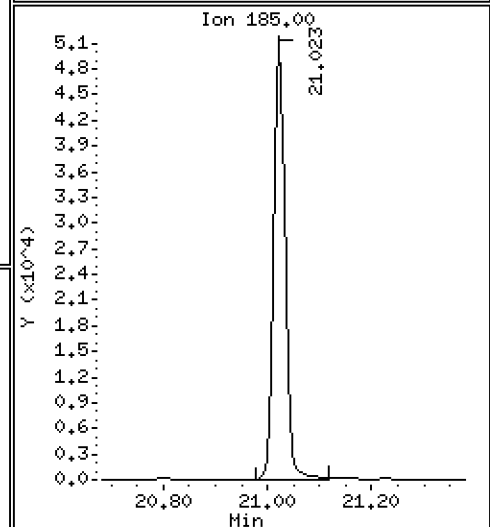
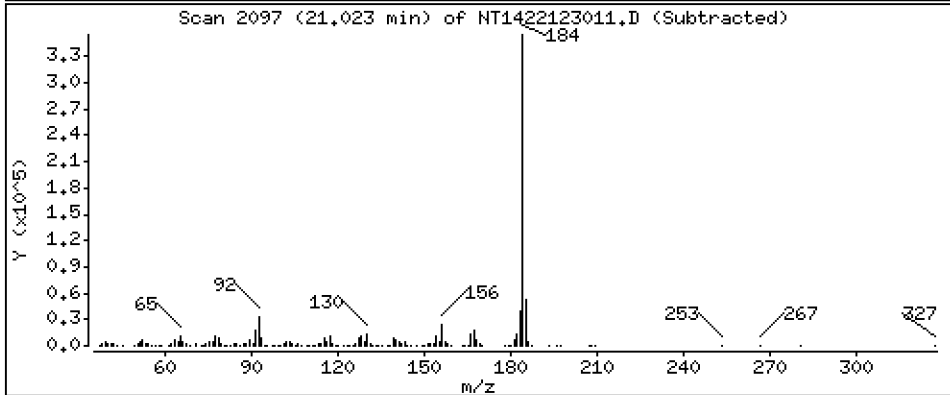
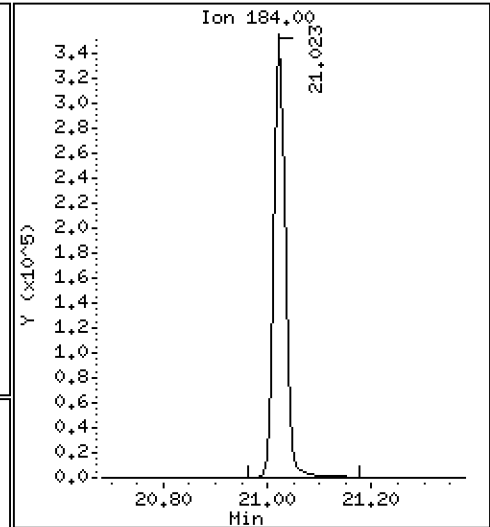
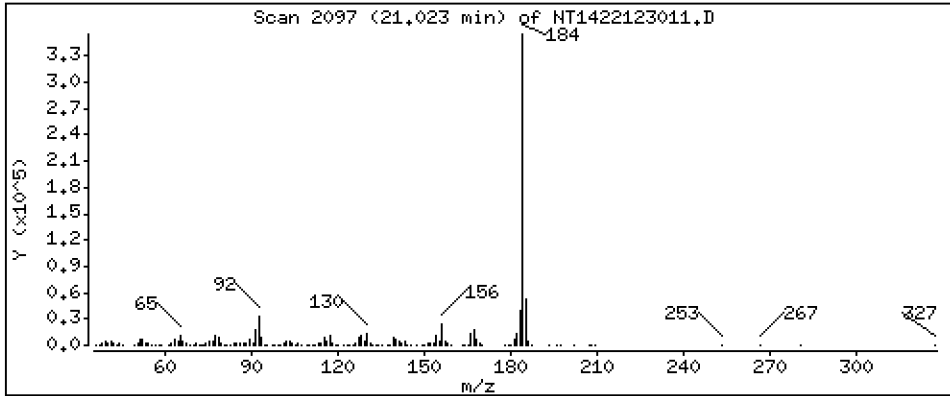
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 9,704 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

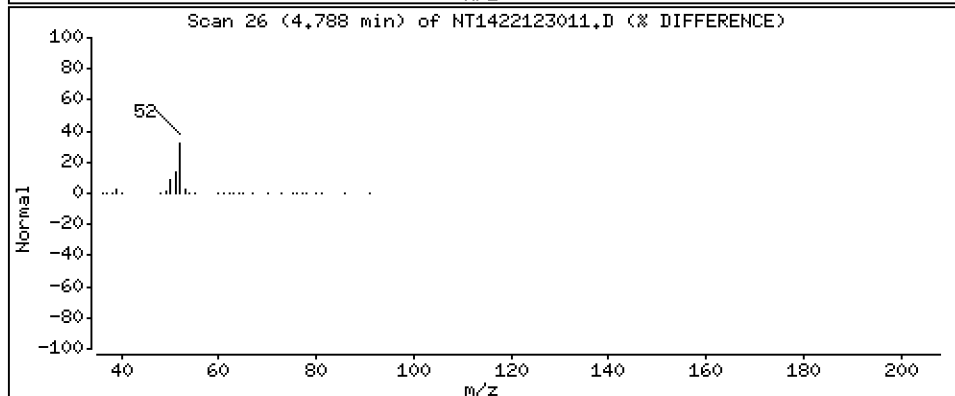
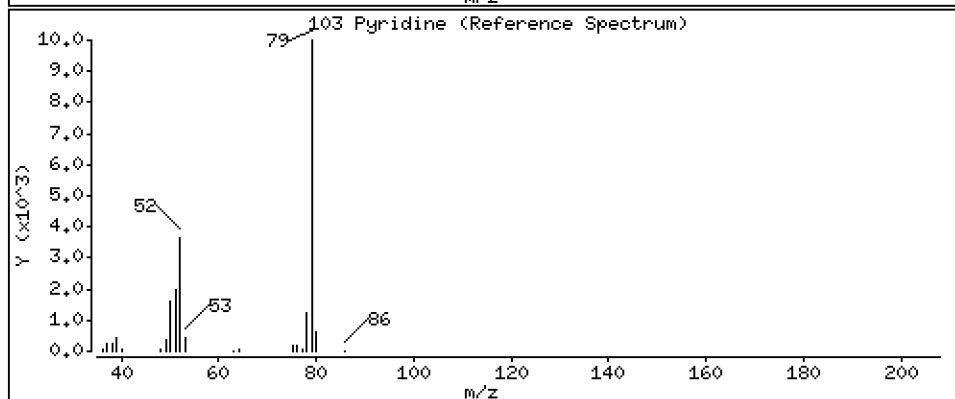
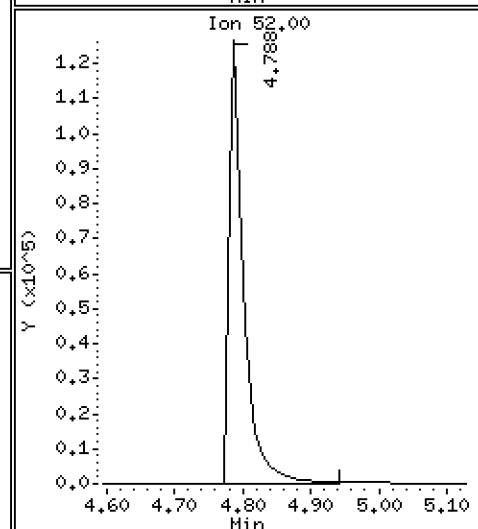
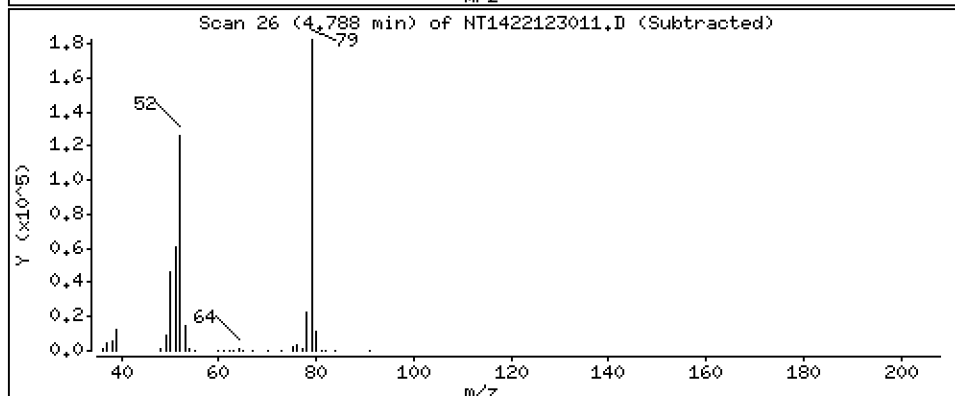
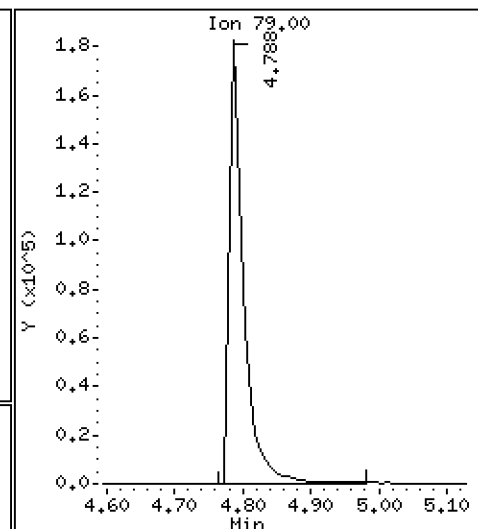
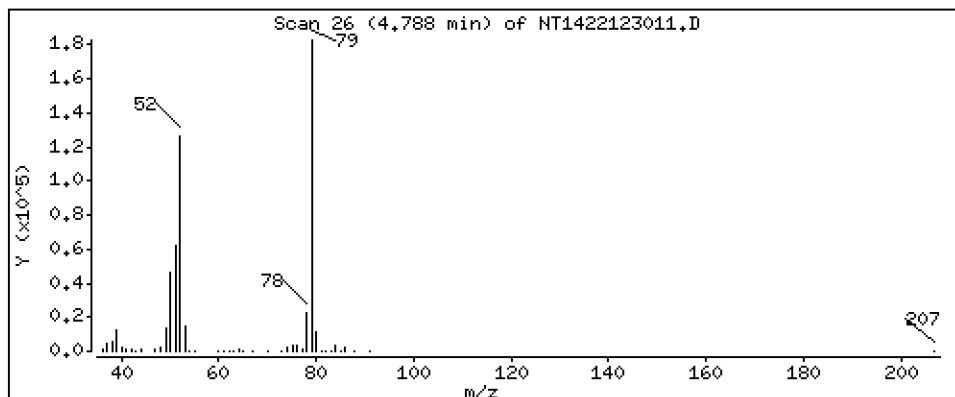
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 2,681 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

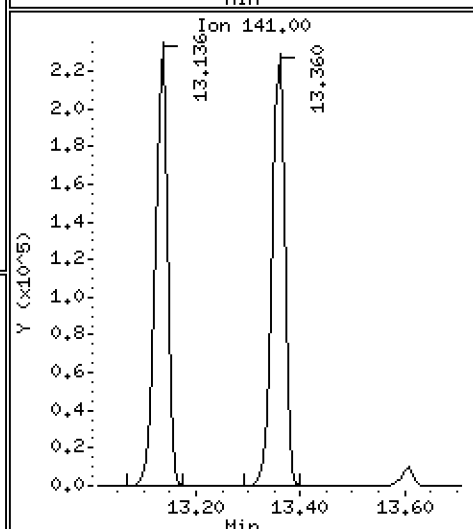
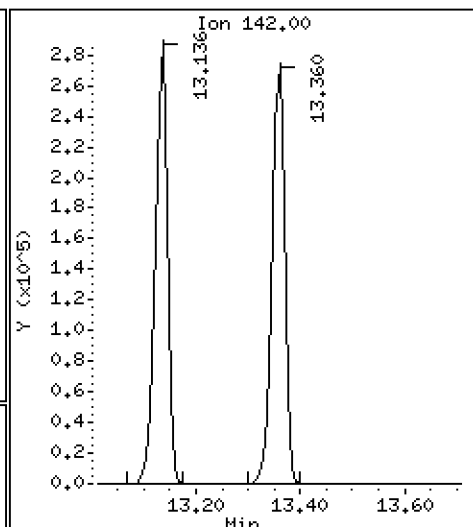
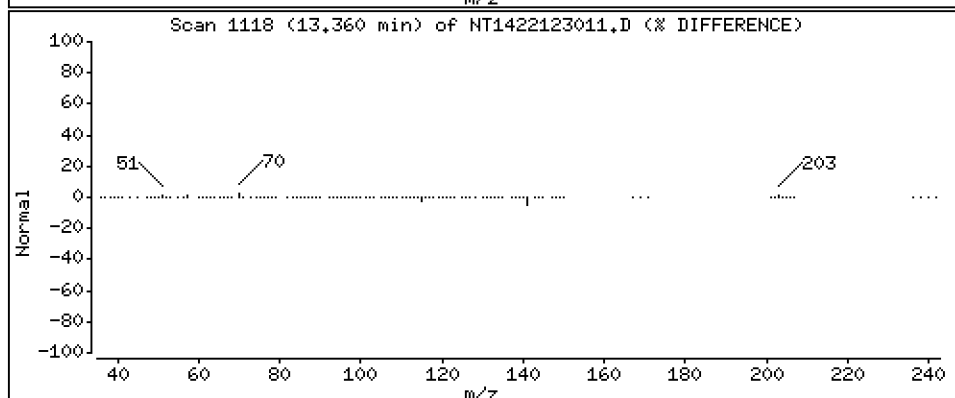
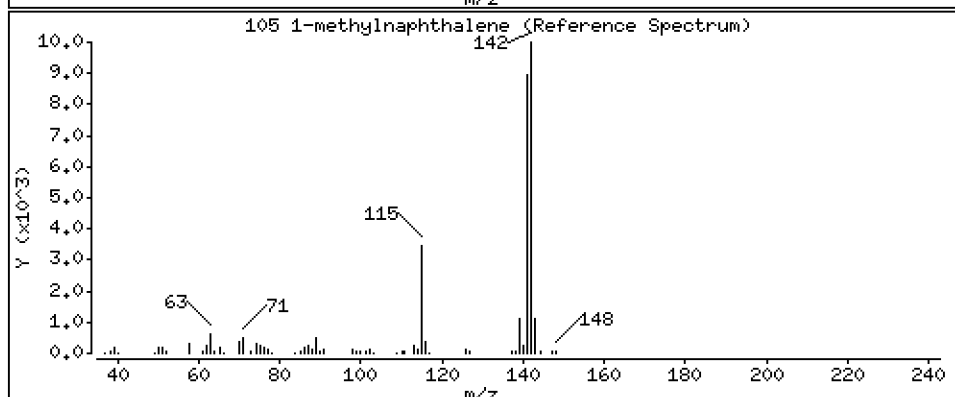
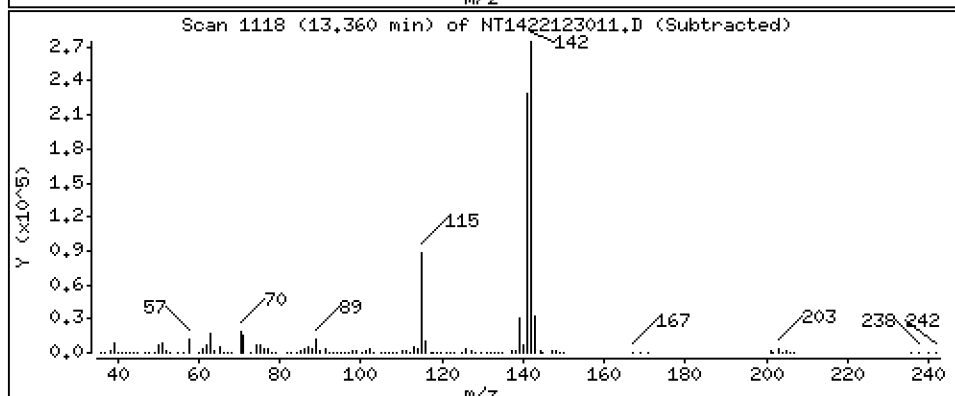
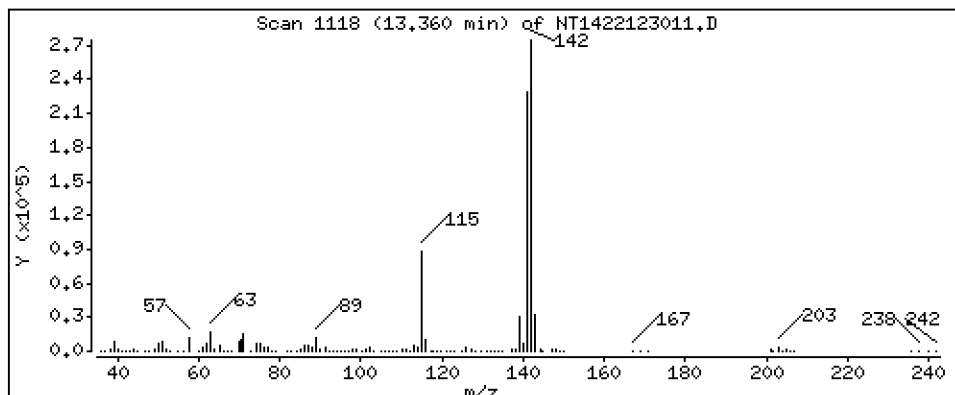
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,671 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

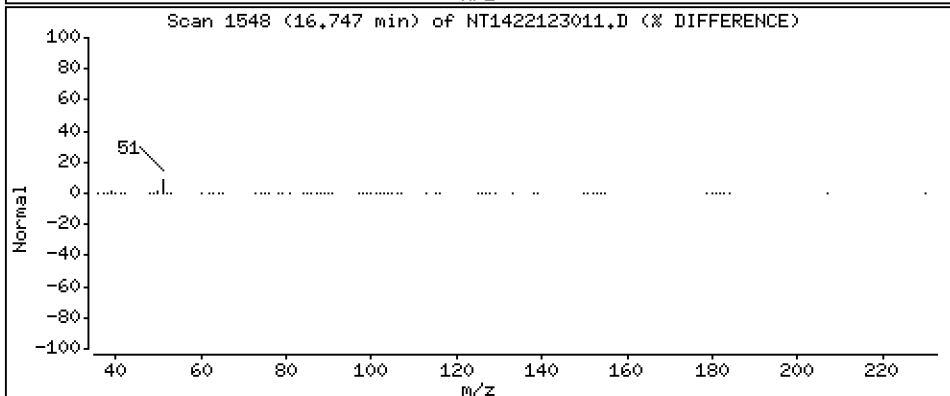
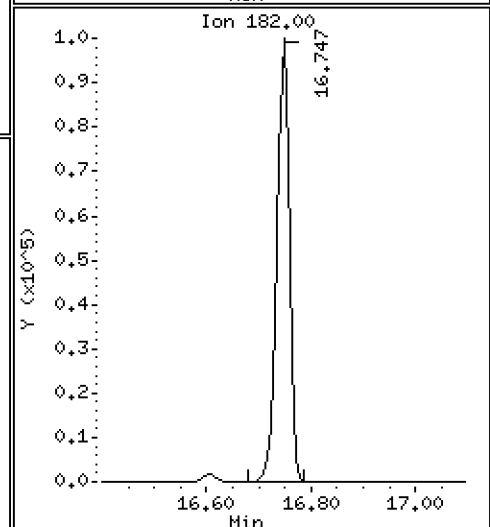
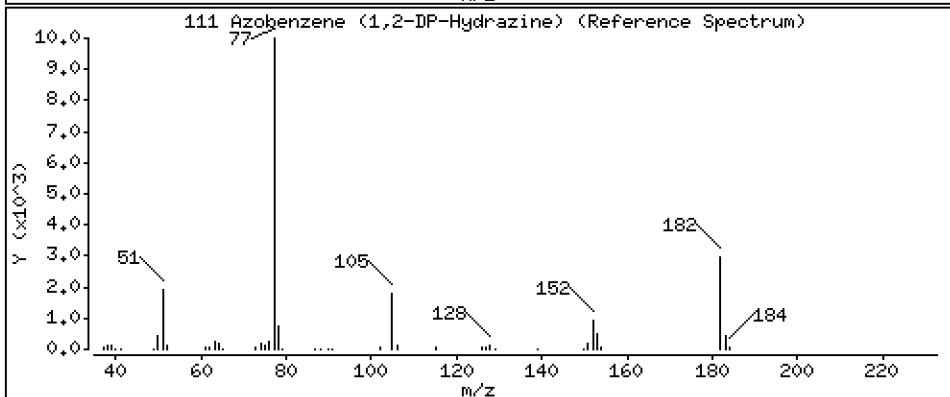
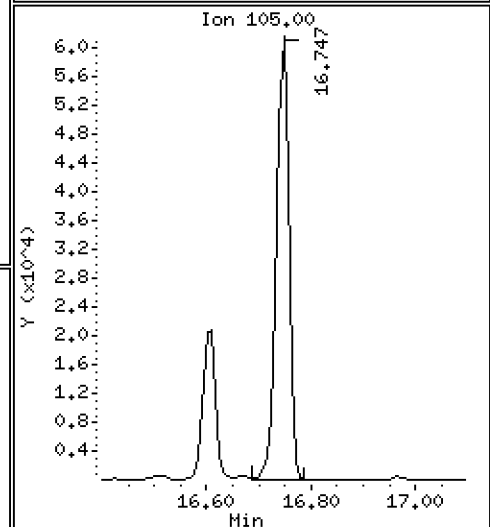
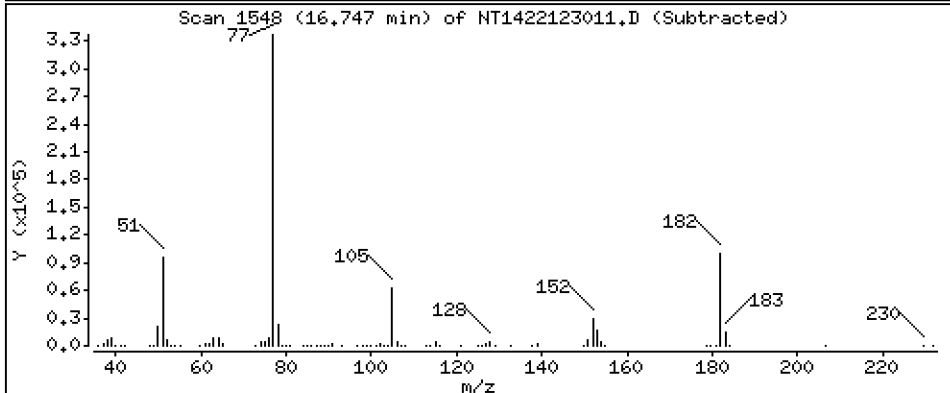
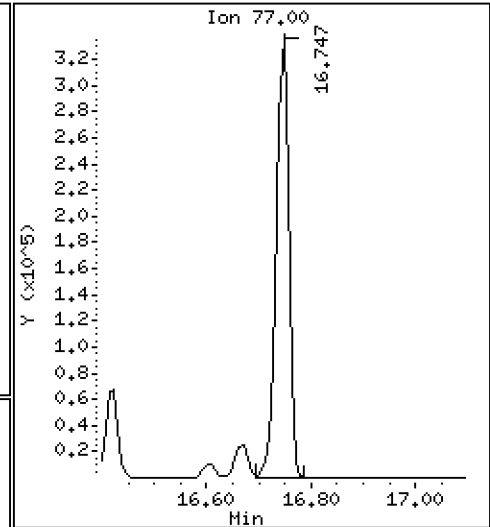
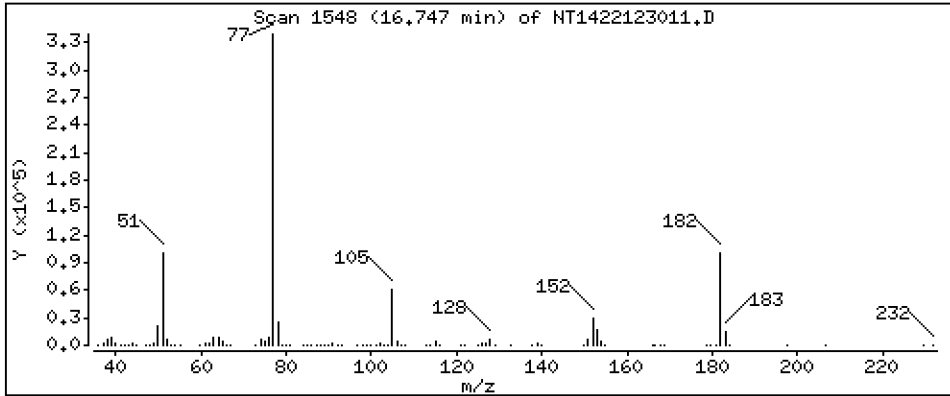
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4,893 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

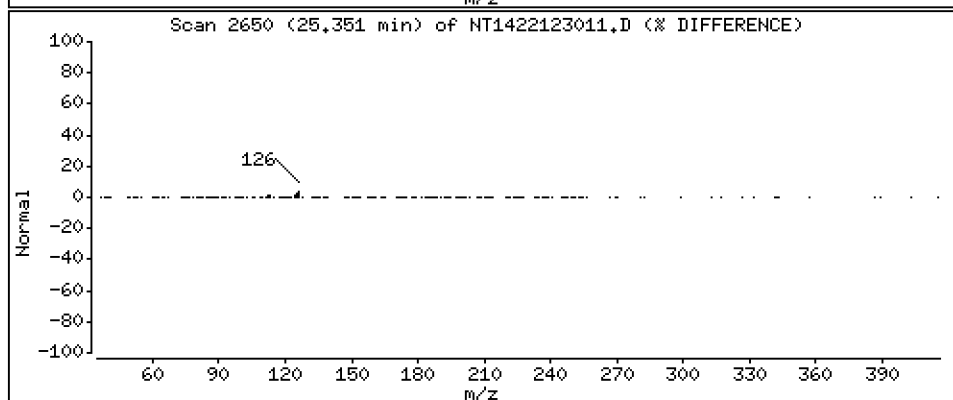
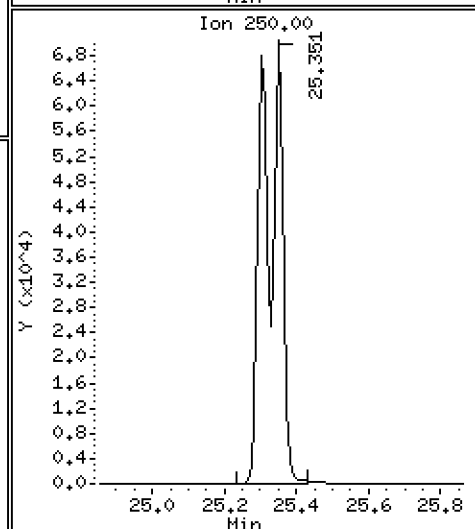
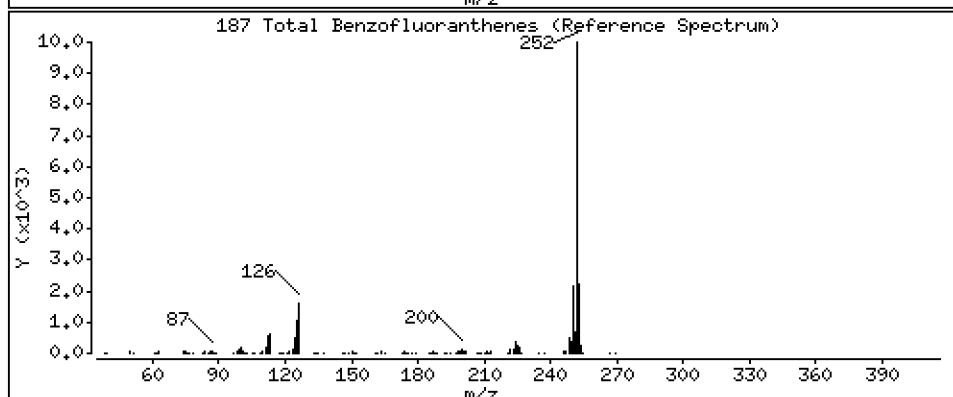
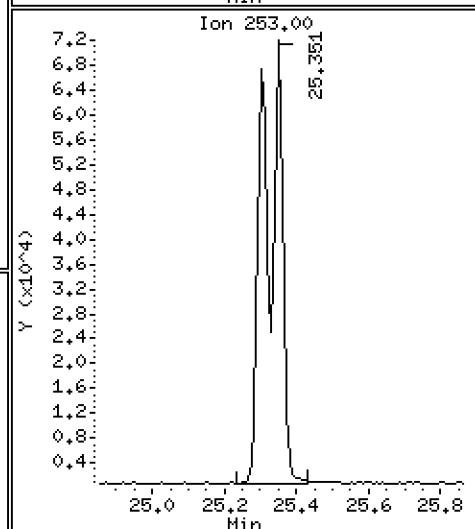
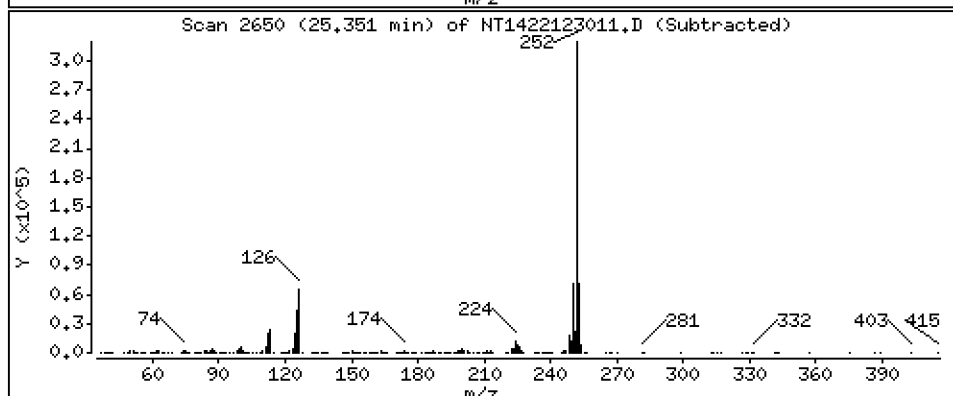
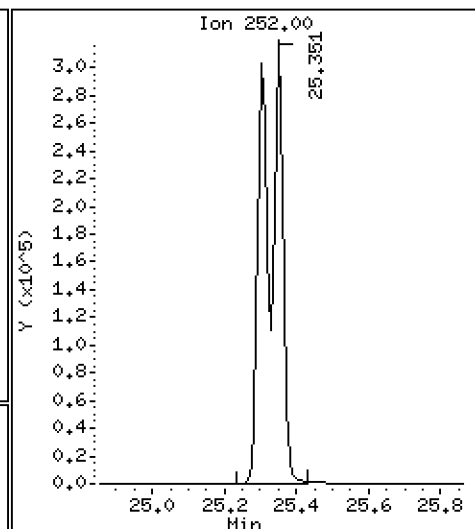
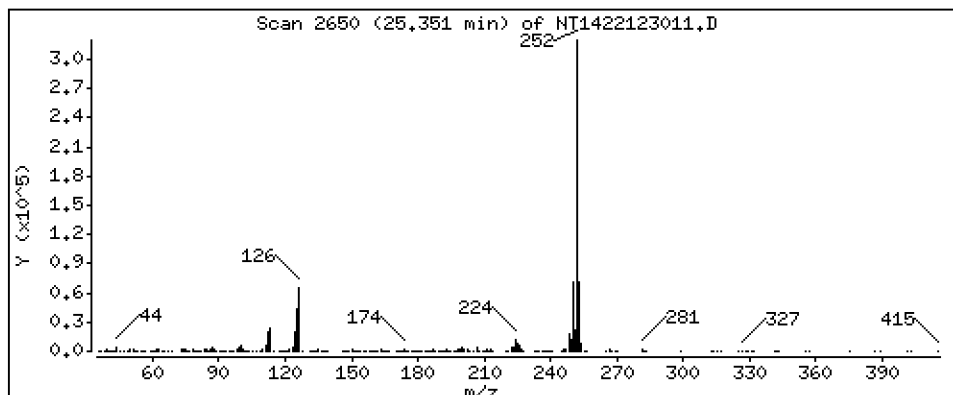
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,972 ug/mL



Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

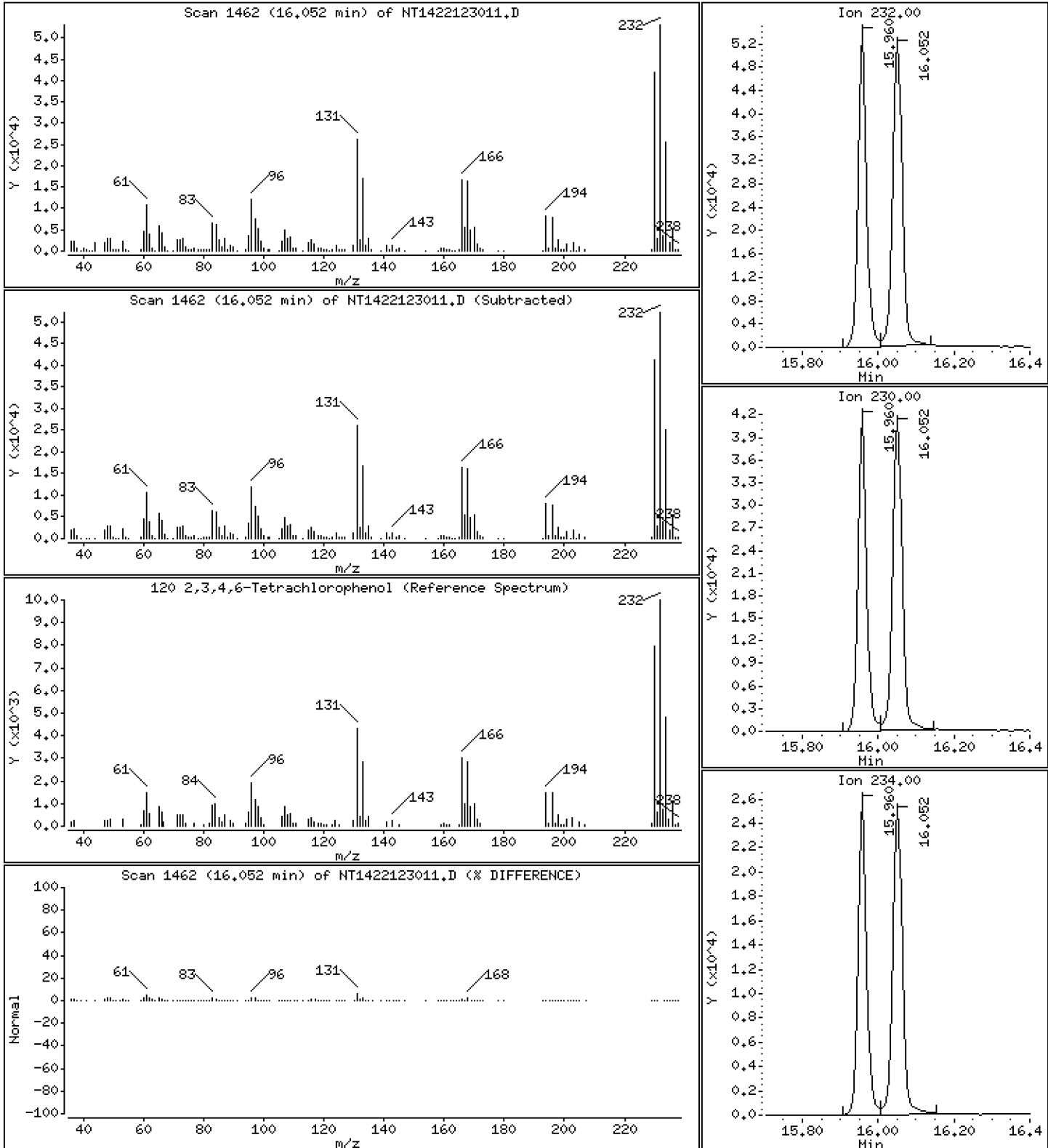
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,079 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D
 Lab Smp Id: SKL0355-ICV1
 Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 11
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	340542	7.31681	7.317
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	425409	7.39610	7.396
3 Phenol	94		8.550	8.549	(0.931)	284374	4.35110	4.351
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	353505	7.31802	7.318
4 Bis(2-Chloroethyl)ether	93		8.720	8.719	(0.949)	229408	5.09546	5.095
6 2-Chlorophenol	128		8.843	8.843	(0.963)	236672	4.46115	4.461
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	267449	4.75416	4.754
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	145276	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	254370	4.77289	4.773
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	157368	4.76640	4.766
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	249154	4.76694	4.767
11 Benzyl alcohol	108		9.447	9.447	(1.029)	144889	4.97978	4.980
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	78691	5.19294	5.193
13 2-Methylphenol	108		9.673	9.672	(1.053)	186498	3.92700	3.927
17 Hexachloroethane	117		10.177	10.177	(1.108)	96618	4.92918	4.929
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	148366	5.12841	5.128
15 4-Methylphenol	108		9.952	9.944	(1.084)	206520	4.12221	4.122
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	222732	4.86182	4.862
19 Nitrobenzene	77		10.317	10.316	(0.883)	222014	4.87964	4.880
20 Isophorone	82		10.767	10.774	(0.921)	402784	6.94605	6.946
21 2-Nitrophenol	139		10.953	10.953	(0.937)	131718	4.55573	4.556
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	173928	3.66274	3.663
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	255794	5.67041	5.670
24 Benzoic acid	105		11.155	11.201	(0.954)	187105	6.38476	6.385
25 2,4-Dichlorophenol	162		11.403	11.410	(0.976)	175656	4.38838	4.388
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	197978	4.57428	4.574
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	542519	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	642406	4.81161	4.812
29 4-Chloroaniline	127		11.851	11.858	(1.014)	211901	3.84856	3.849
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	103565	4.82279	4.823
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	170811	4.52201	4.522
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	452041	4.61574	4.616
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	112264	5.08058	5.081

Compounds	QUANT SIG					CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407	
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278	
§ 36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817	
37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754	
38 2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043	
39 Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023	
40 Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000	
41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115	
* 42 Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000		
43 3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088	
44 Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916	
45 2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036	
46 Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709	
47 4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077	
48 2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956	
50 Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353	
49 Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230	
51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094	
52 4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733	
53 4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082	
54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775	
§ 55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239	
56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938	
57 Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553	
58 Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796	
* 59 Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000		
60 Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767	
61 Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373	
62 Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620	
63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931	
64 Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090	
65 Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022	
§ 66 Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816	
67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005	
68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890	
* 69 Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000		
70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207	
71 Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763	
72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899	
* 134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000		
73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083	
74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893	
75 Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093	
76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092	
* 77 Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000		
78 Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128	
79 Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087	
80 Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037	
90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154	
91 Aniline	93	Compound Not Detected.						
93 Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704	
103 Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681	
105 1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671	
111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123011.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 13:31

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123014.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV2

Injection Time: 15:53

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.8	1.7995200	1.7186490		-4.5	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.7	1.2396270	1.1687670		-5.7	+/-20
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3681350		-6.3	+/-20
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4109450		-8.9	+/-20
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3357980		-9.0	+/-20
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3306780		-7.5	+/-20
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7946779		-0.8	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	3.7	0.4172325	0.3114626		-25.4	+/-20
2-Methylphenol	A	5.0000	4.9	1.3076140	1.2704620		-2.8	+/-20
Hexachloroethane	A	5.0000	4.8	0.5396966	0.5156443		-4.5	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.2	0.7965591	0.8215703		3.1	+/-20
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3507770		-2.1	+/-20
Nitrobenzene	A	5.0000	4.8	0.3354574	0.3249964		-3.1	+/-20
Isophorone	A	5.0000	5.1	0.4275424	0.4360834		2.0	+/-20
2-Nitrophenol	A	5.0000	4.7	0.2064997	0.2006646		-6.0	+/-20
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3313579		-5.4	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3091756		-7.0	+/-20
2,4-Dichlorophenol	A	10.000	10.0	0.2951237	0.2957658		0.2	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2849054		-10.7	+/-20
Naphthalene	A	5.0000	4.6	0.9843833	0.9012306		-8.4	+/-20
Benzoic acid	A	20.000	17.4	0.1508906	0.1927720		-13.1	+/-20
4-Chloroaniline	A	10.000	9.7	0.4059568	0.3950751		-2.7	+/-20
Hexachlorobutadiene	A	5.0000	4.5	0.1583286	0.1436317		-9.3	+/-20
4-Chloro-3-Methylphenol	A	10.000	10.0	0.2785027	0.2790104		0.2	+/-20
2-Methylnaphthalene	A	5.0000	4.7	0.7220739	0.6764344		-6.3	+/-20
Hexachlorocyclopentadiene	A	10.000	9.7	0.3023695	0.2926780		-3.2	+/-20
2,4,6-Trichlorophenol	A	10.000	9.8	0.3338641	0.3282511		-1.7	+/-20
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3798122		-1.4	+/-20
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0587470		-7.5	+/-20
2-Nitroaniline	A	10.000	10.7	0.3007956	0.3208828		6.7	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123014.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV2

Injection Time: 15:53

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6444420		-5.7	+/-20
Dimethylphthalate	A	5.0000	4.7	1.1280520	1.0645420		-5.6	+/-20
2,6-Dinitrotoluene	A	10.000	9.9	0.2545771	0.2527094		-0.7	+/-20
Acenaphthene	A	5.0000	4.6	1.0820160	0.9983132		-7.7	+/-20
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3068867		-0.8	+/-20
2,4-Dinitrophenol	A	20.000	17.6	0.1831718	0.1983905		-11.9	+/-20
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4754640		-9.1	+/-20
4-Nitrophenol	A	10.000	9.4	0.1384031	0.1428400		-5.6	+/-20
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3453545		-1.1	+/-20
Fluorene	A	5.0000	4.9	1.7261350	1.7055820		-1.2	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.7	0.8450792	0.7886722		-6.7	+/-20
Diethyl phthalate	A	5.0000	5.0	1.5332690	1.5233580		-0.6	+/-20
4-Nitroaniline	A	10.000	9.6	0.3413732	0.3662170		-3.8	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	19.2	0.1530278	0.1682270		-4.0	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.6	0.6863845	0.6341271		-7.6	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.6	0.2599074	0.2391345		-8.0	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2573836		-9.8	+/-20
Pentachlorophenol	A	10.000	8.9	0.1128364	0.1152245		-10.9	+/-20
Phenanthrene	A	5.0000	4.6	1.0429190	0.9576970		-8.2	+/-20
Anthracene	A	5.0000	4.9	0.9956202	0.9715587		-2.4	+/-20
Carbazole	A	5.0000	4.7	0.9624945	0.9004501		-6.4	+/-20
Di-n-Butylphthalate	A	5.0000	4.8	1.0394700	1.0864340		-3.9	+/-20
Fluoranthene	A	5.0000	4.9	1.2879410	1.2525890		-2.7	+/-20
Pyrene	A	5.0000	4.8	1.3541610	1.3113600		-3.2	+/-20
Butylbenzylphthalate	A	5.0000	4.9	0.4650792	0.5059756		-2.6	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1621750		-4.1	+/-20
3,3'-Dichlorobenzidine	A	15.000	12.3	0.3709370	0.3029352		-18.3	+/-20
Chrysene	A	5.0000	4.7	1.1445730	1.0736030		-6.2	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.4442323	0.4858836		9.4	+/-20
Di-n-Octylphthalate	A	5.0000	4.5	0.9601702	0.8720979		-9.2	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123014.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/30/22

Lab Sample ID: SKL0355-ICV2

Injection Time: 15:53

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	9.4	1.2153330	1.1416210		-6.1	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.0450150	1.0073260		-3.6	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.1879490	1.1725880		-1.3	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.0094890	0.9662532		-4.3	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.9	0.9951726	0.9750521		-2.0	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6529617		-5.9	+/-20
2-Fluorophenol	A	7.5000	7.37	1.2814900	1.2598380		-1.7	+/-20
Phenol-d5	A	7.5000	7.46	1.5836890	1.5743540		-0.6	+/-20
2-Chlorophenol-d4	A	7.5000	7.24	1.3300510	1.2841510		-3.5	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8501916		-6.5	+/-20
Nitrobenzene-d5	A	5.0000	5.01	0.3377760	0.3384311		0.2	+/-20
2-Fluorobiphenyl	A	5.0000	4.64	1.3448860	1.2475250		-7.2	+/-20
2,4,6-Tribromophenol	A	7.5000	6.82	0.1844845	0.1766959		-9.1	+/-20
p-Terphenyl-d14	A	5.0000	4.75	0.9601842	0.9117019		-5.0	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230.6\NT1422123014.D

Date: 30-DEC-2022 15:53

Client ID:

Sample Info: SKL0355-ICW2

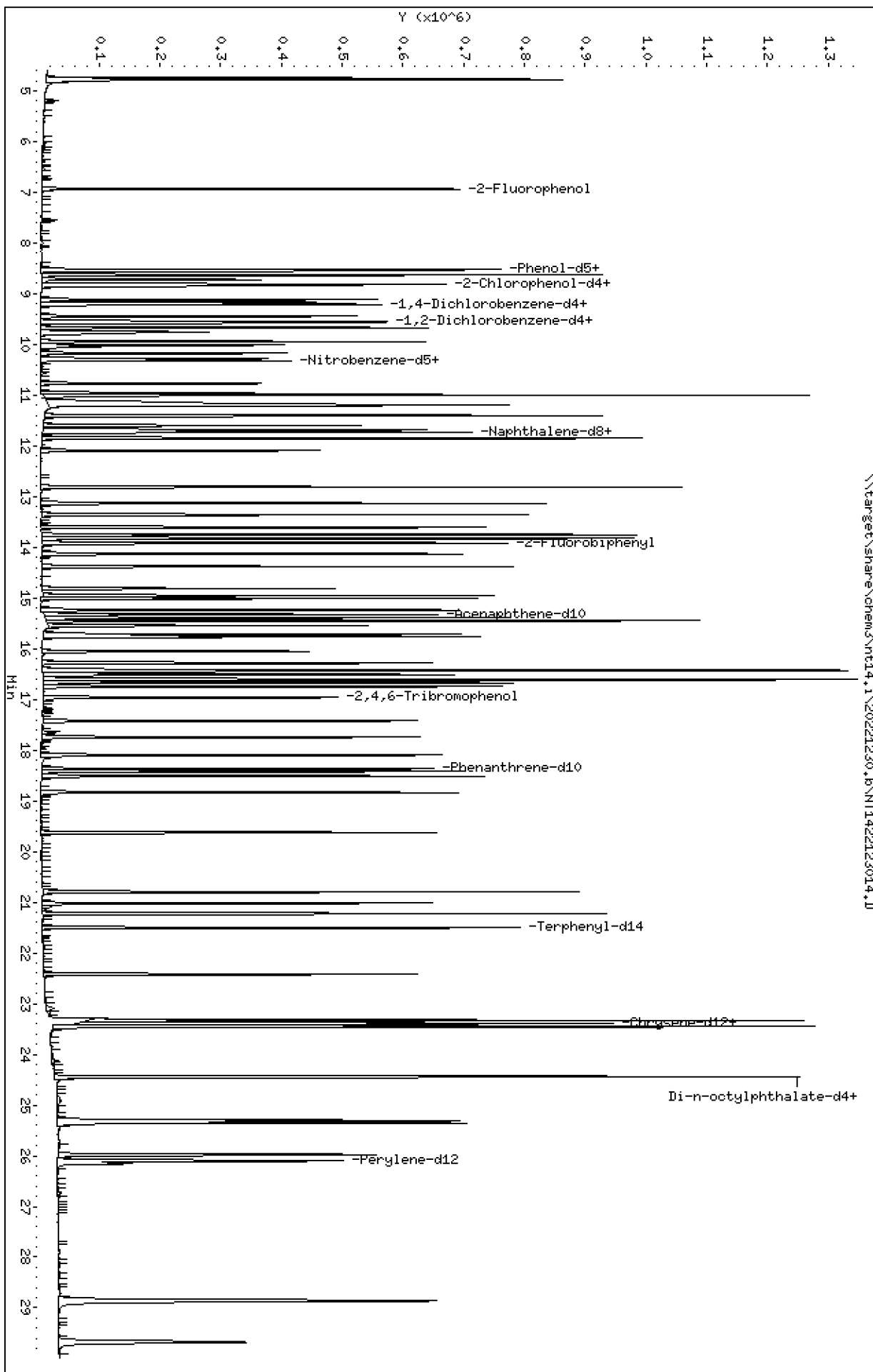
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

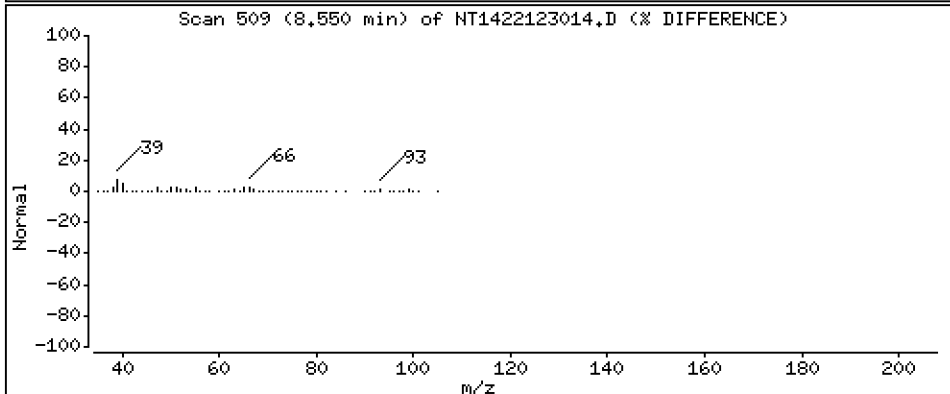
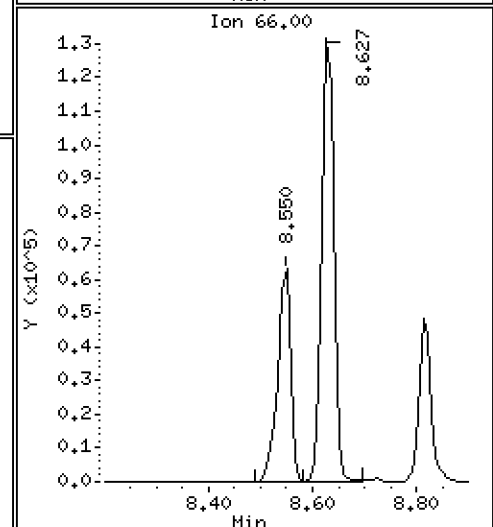
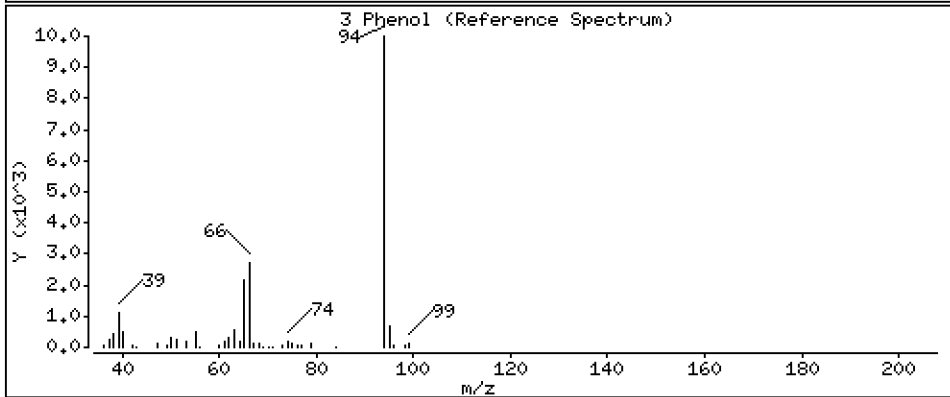
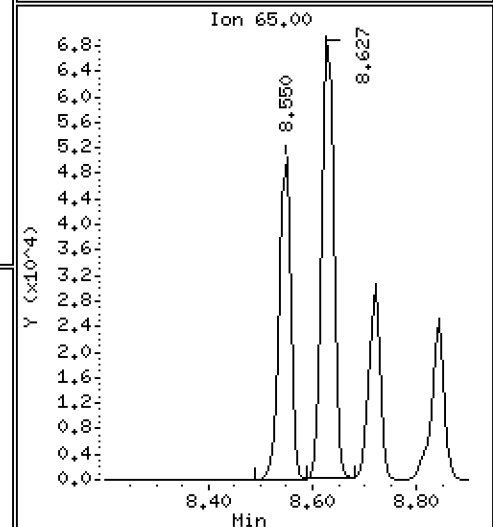
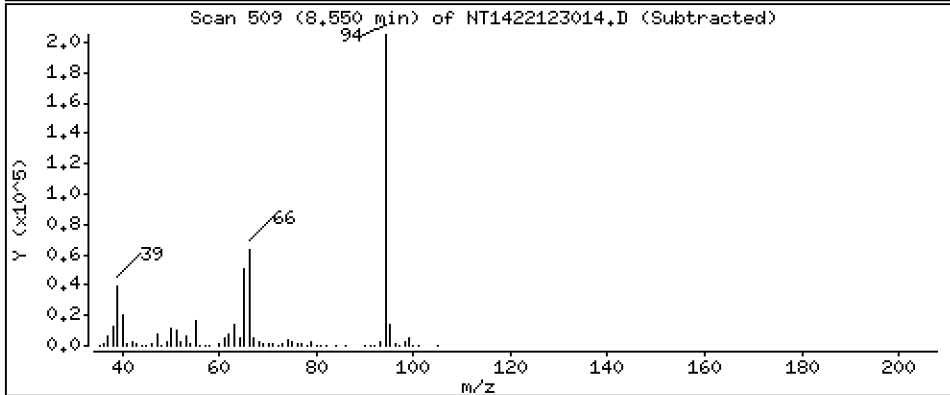
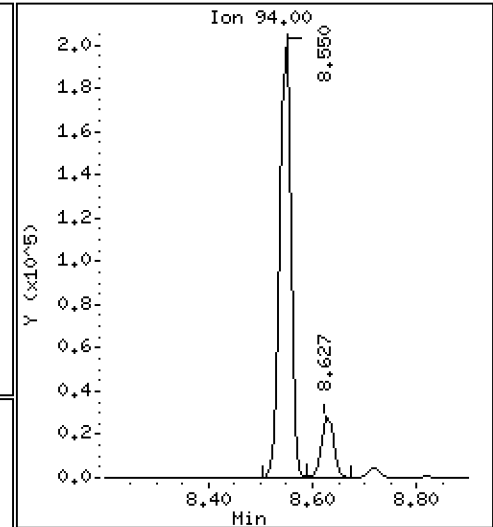
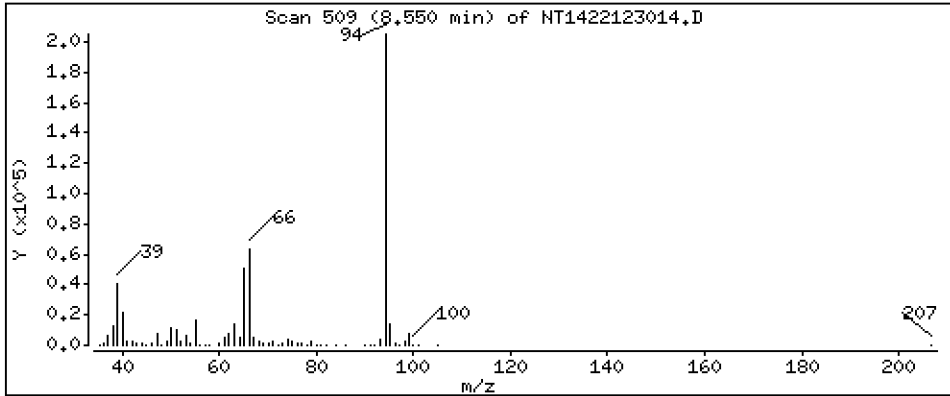
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,775 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

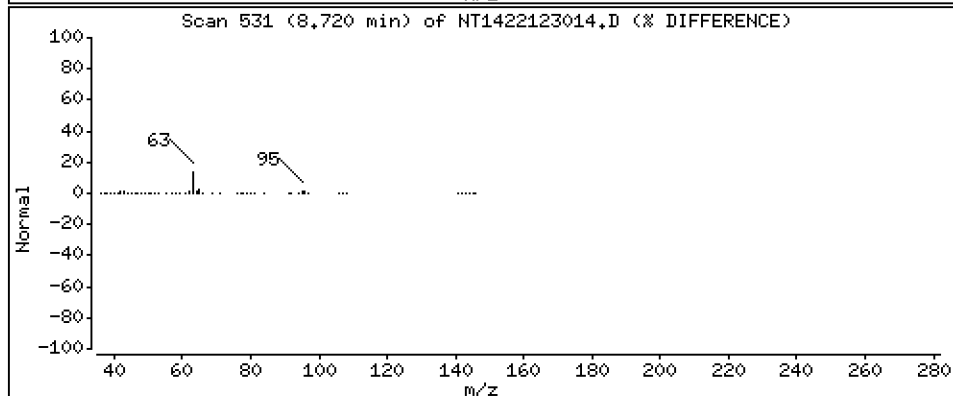
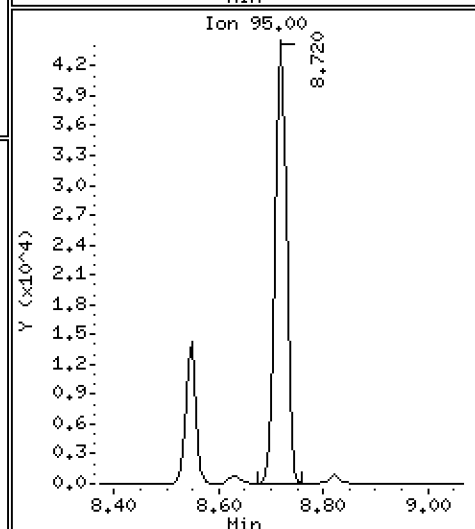
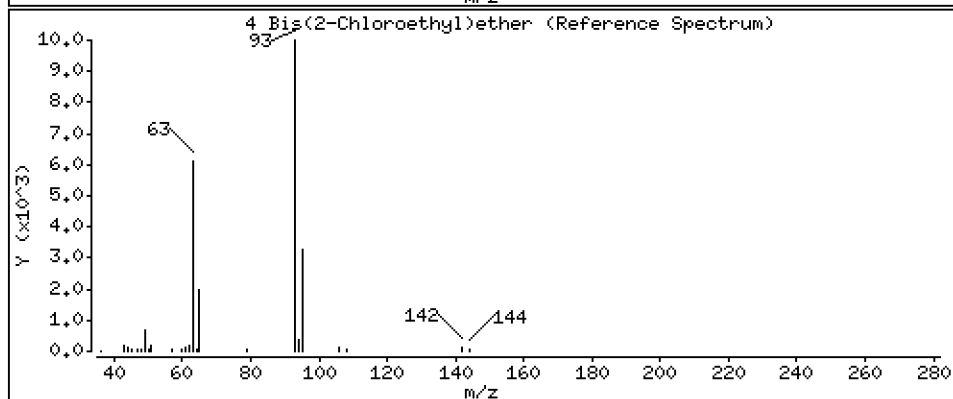
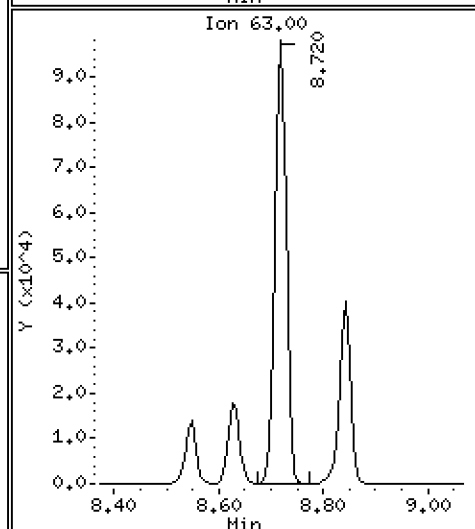
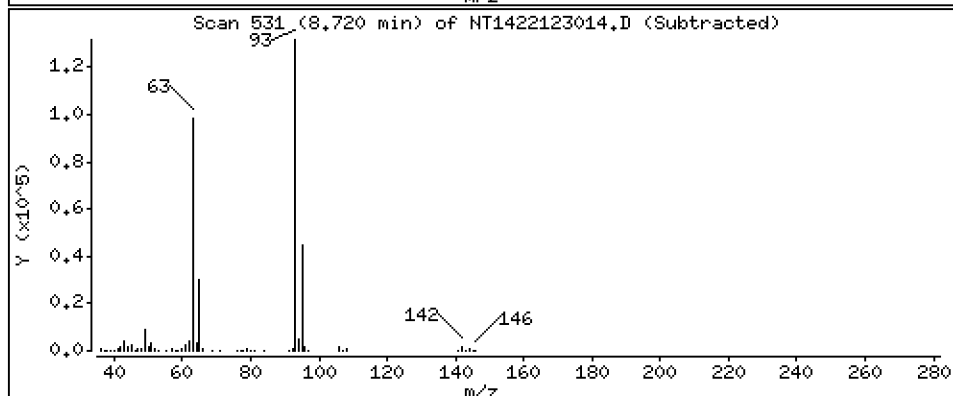
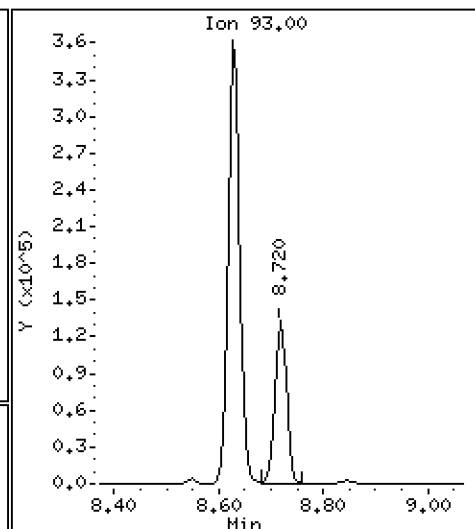
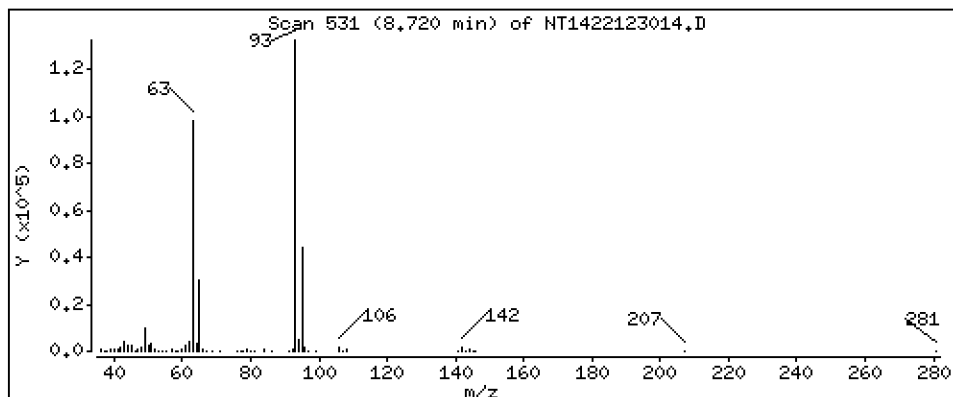
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,714 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

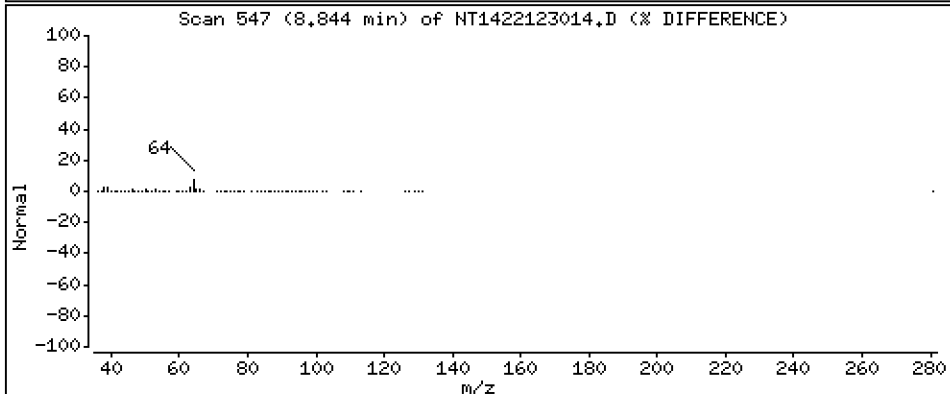
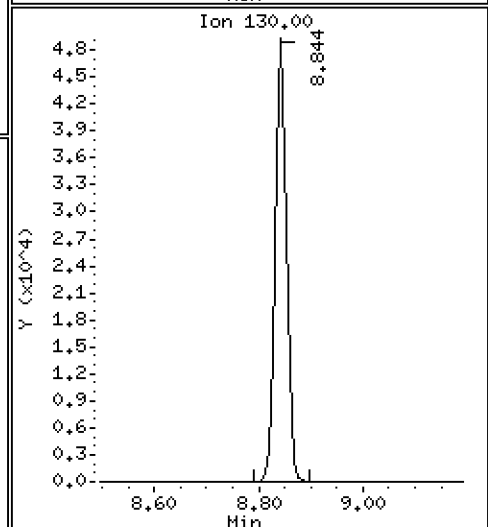
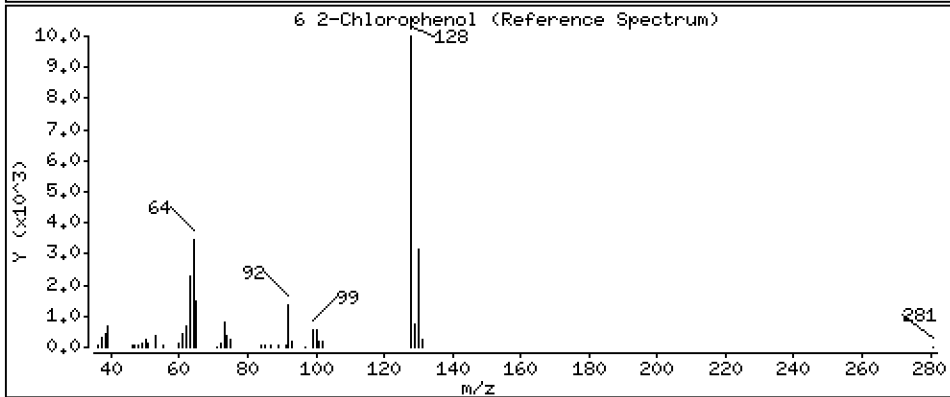
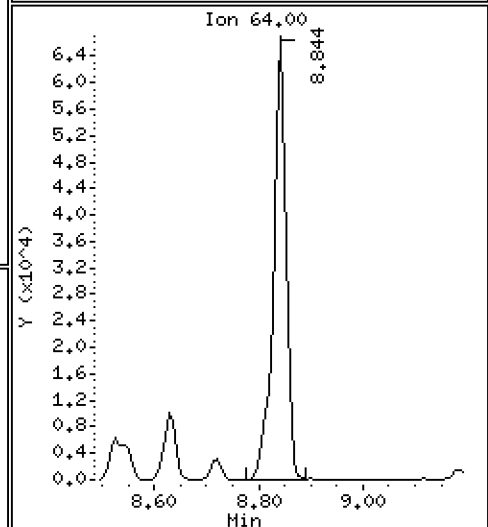
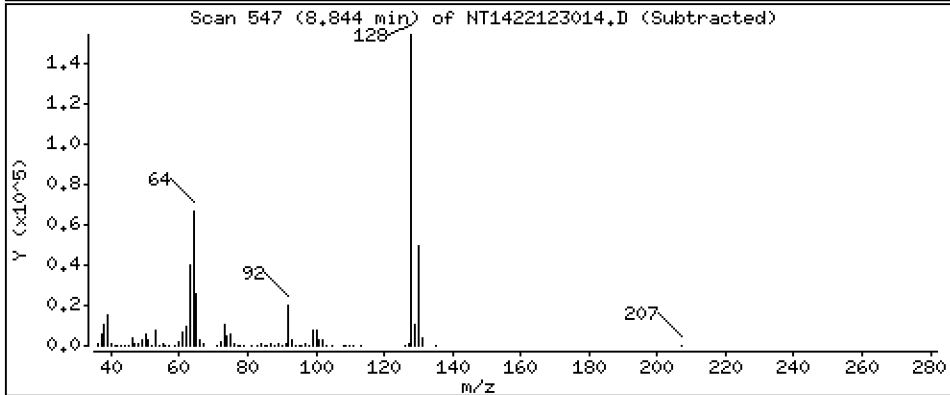
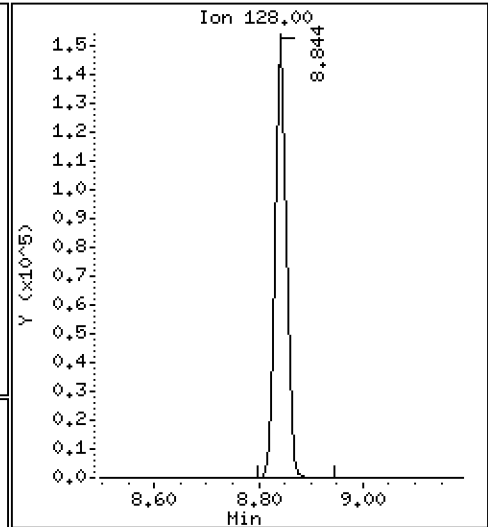
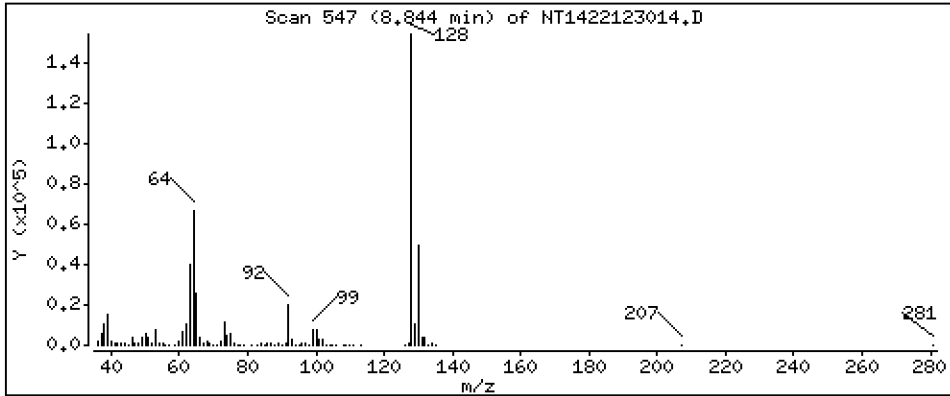
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,683 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

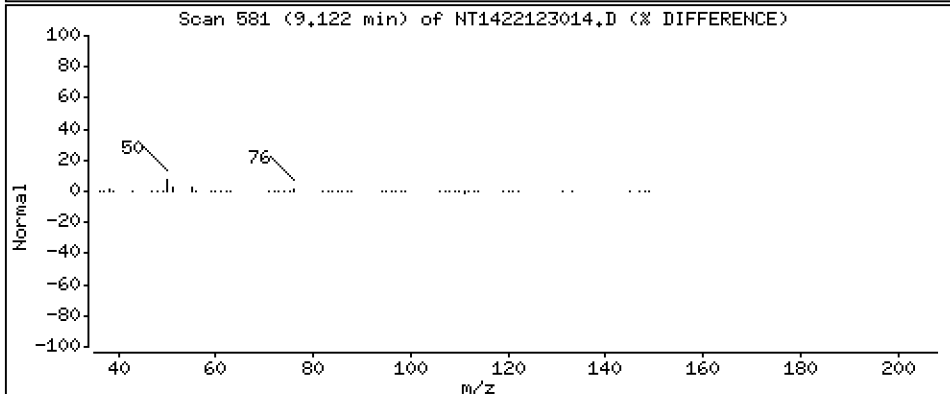
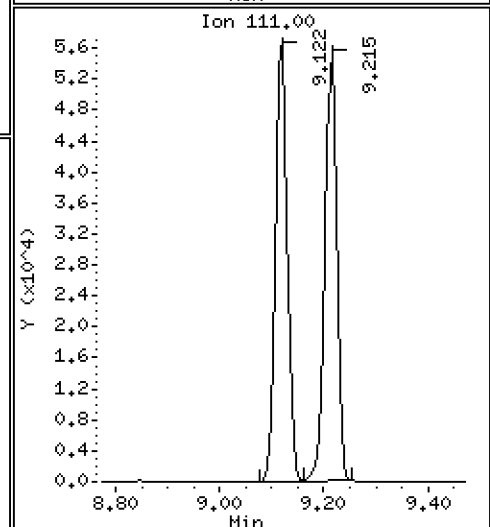
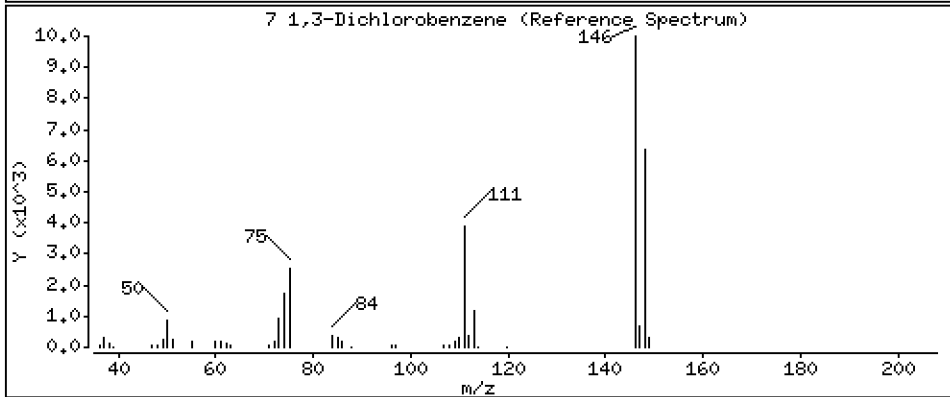
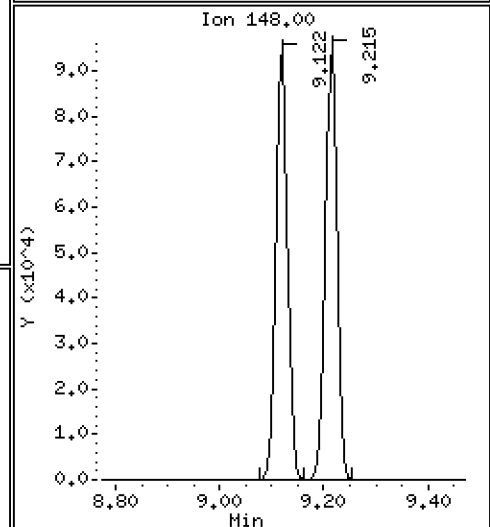
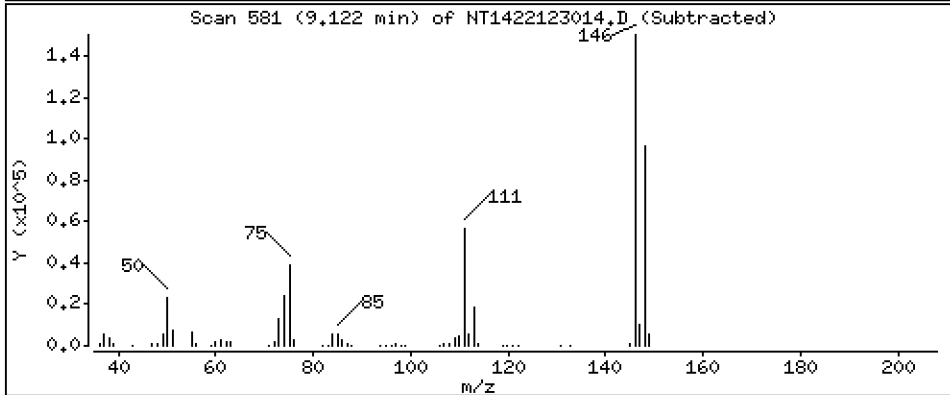
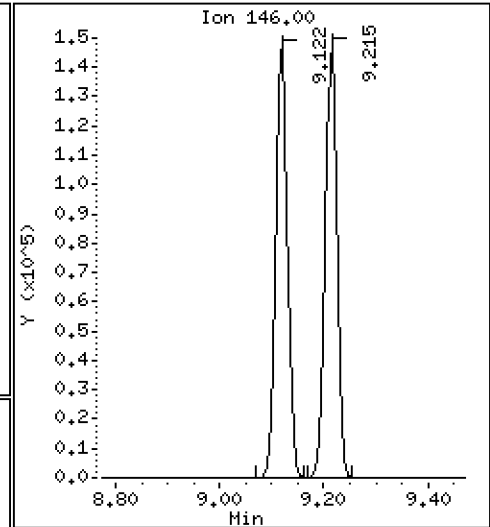
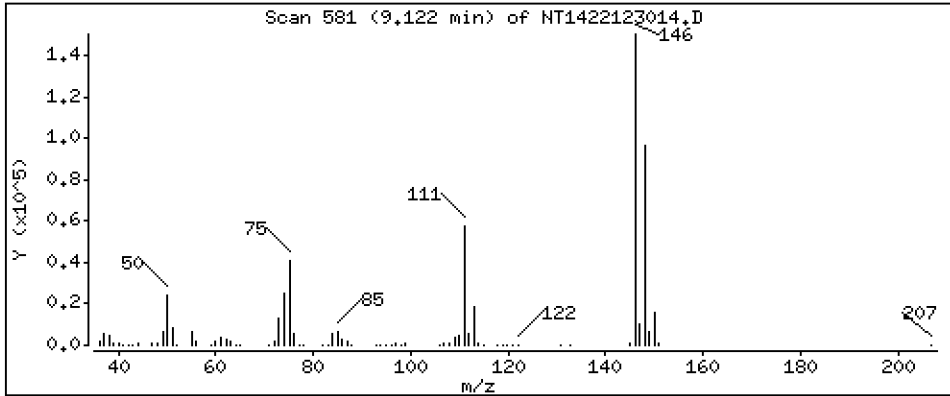
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 4,555 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

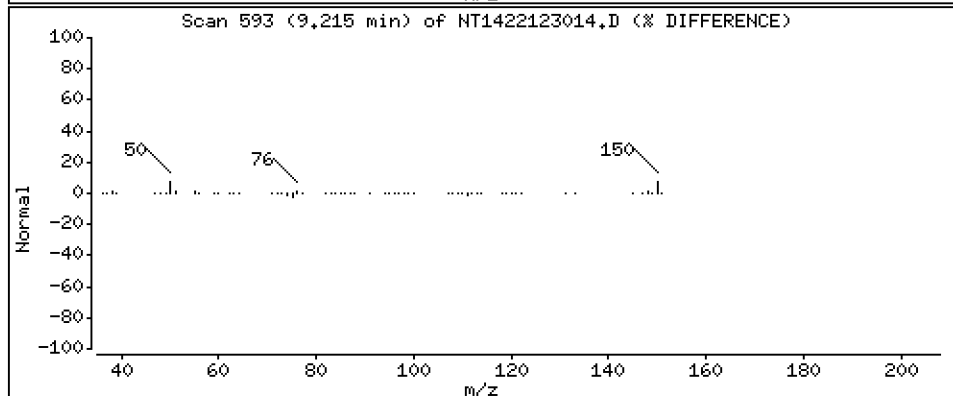
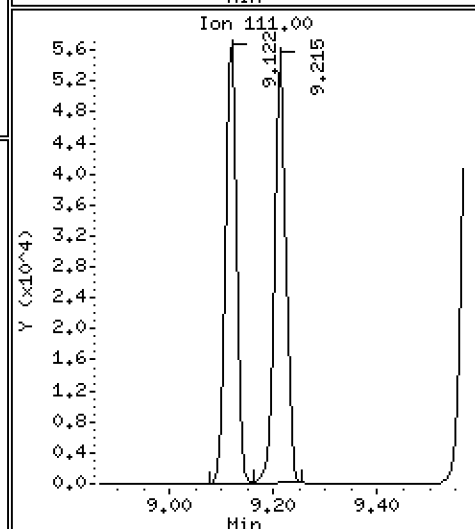
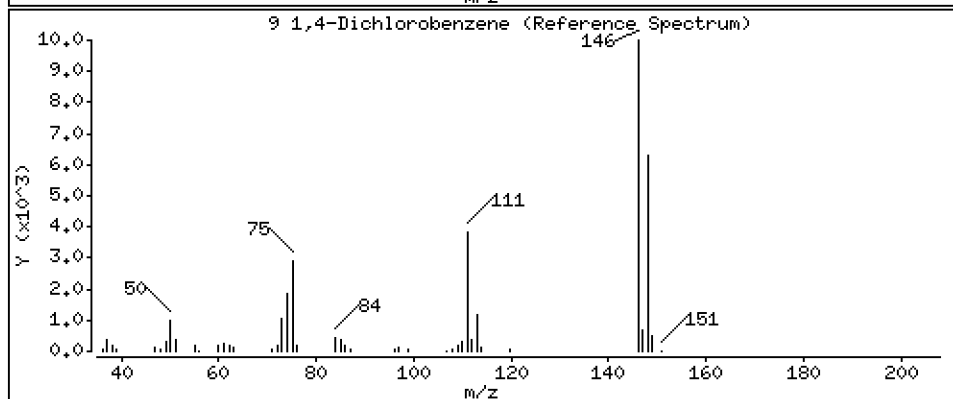
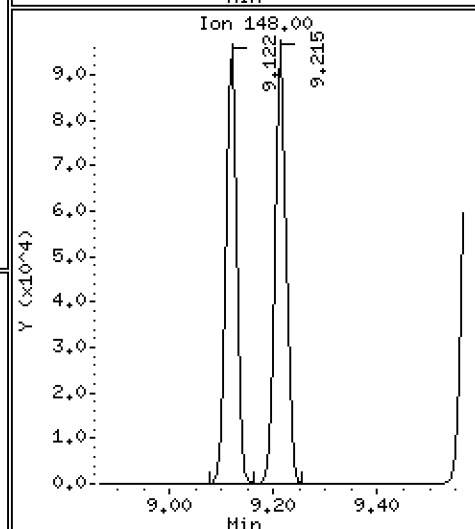
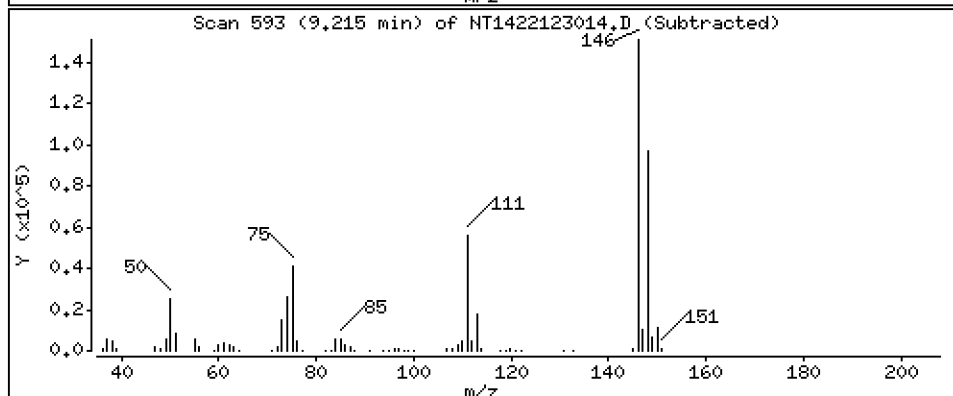
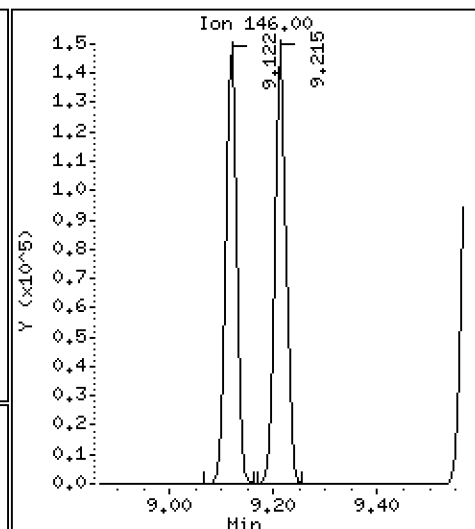
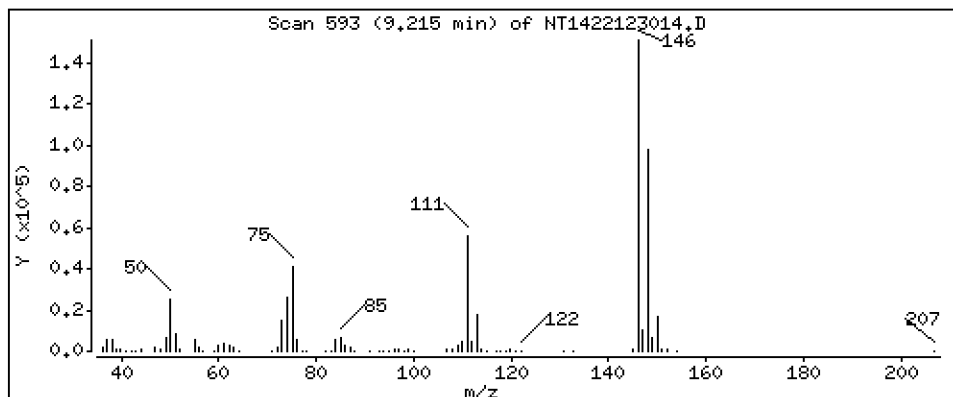
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,552 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

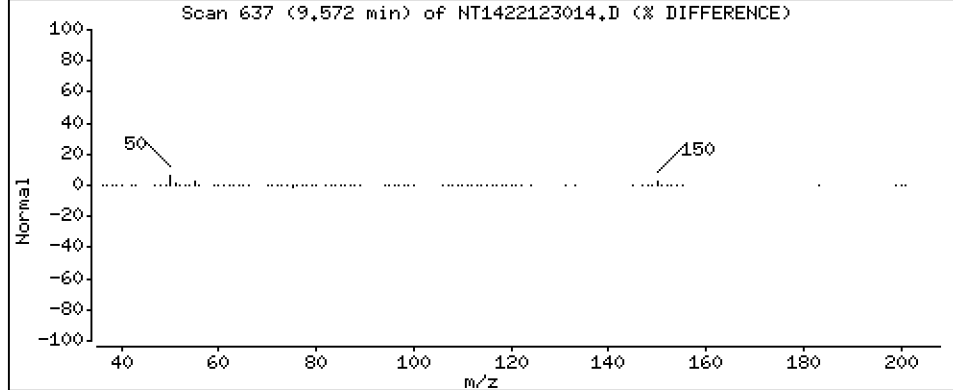
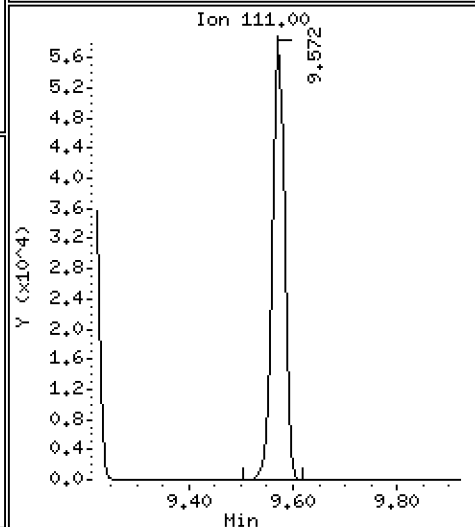
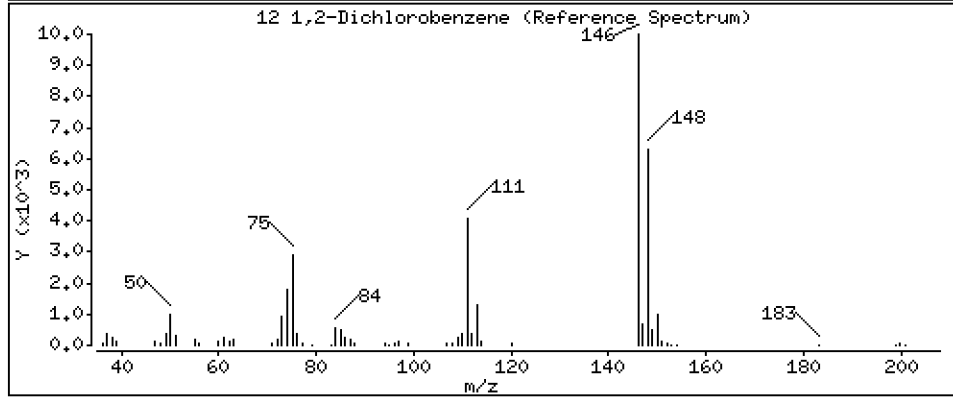
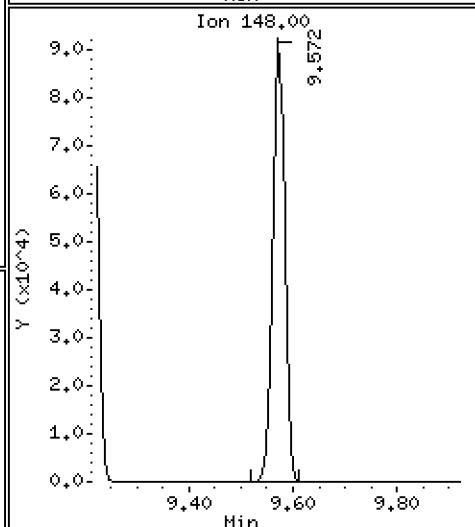
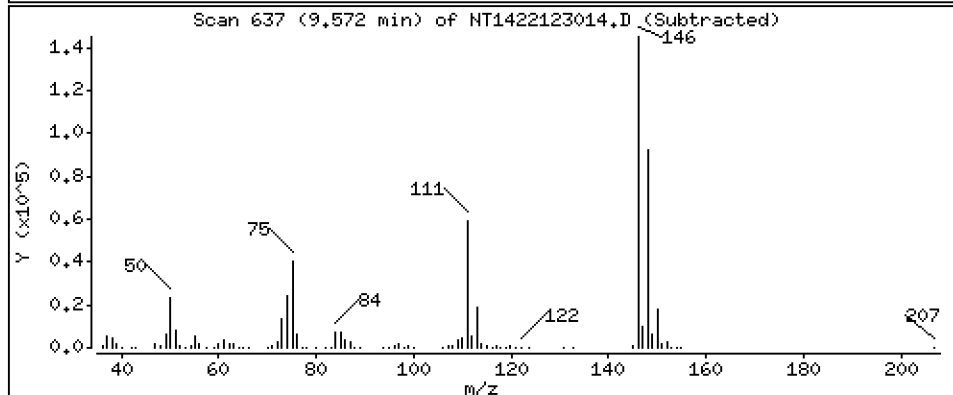
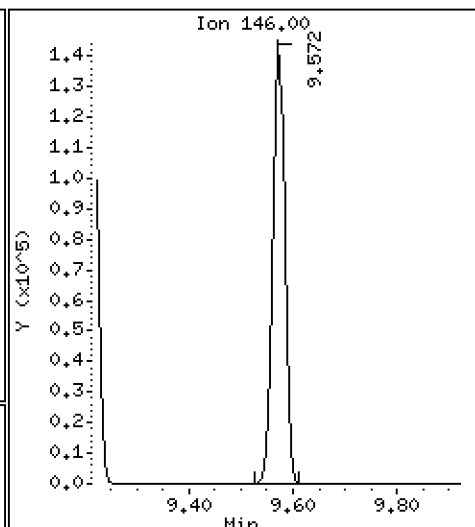
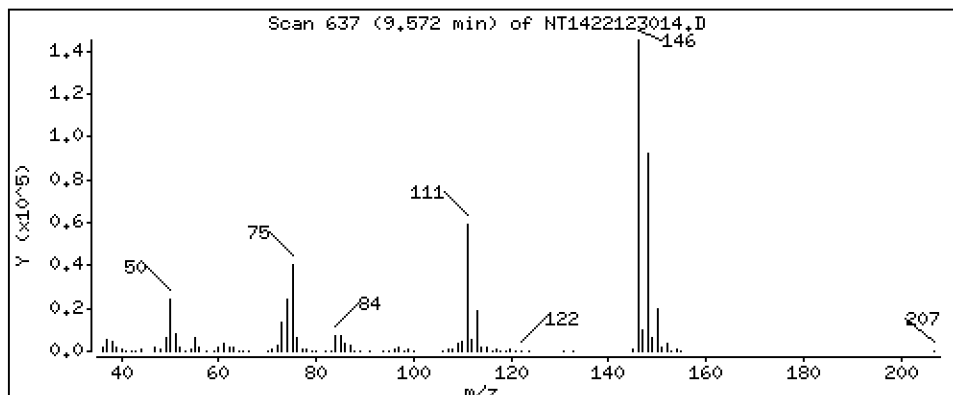
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,623 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

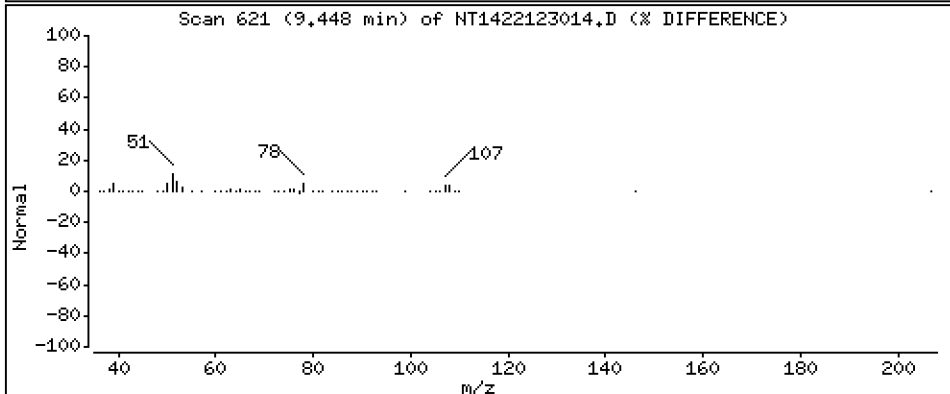
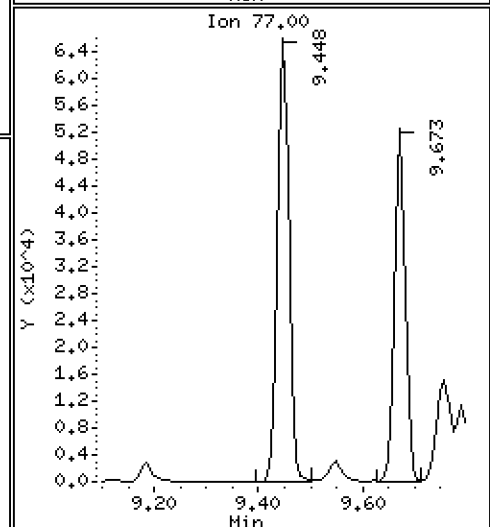
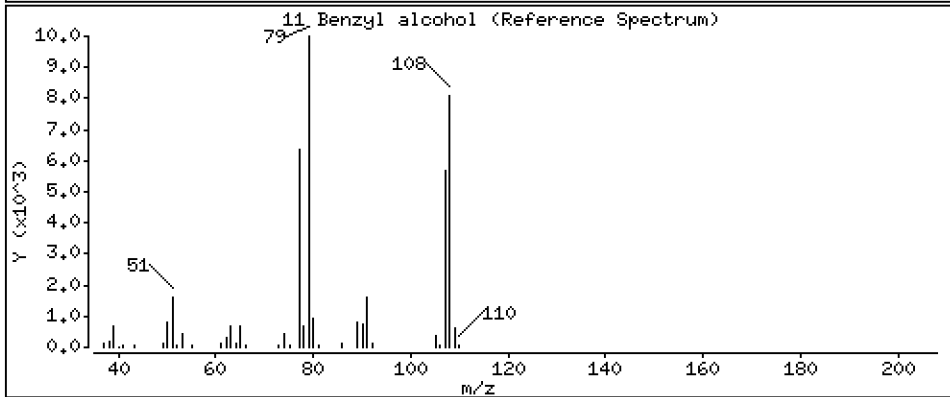
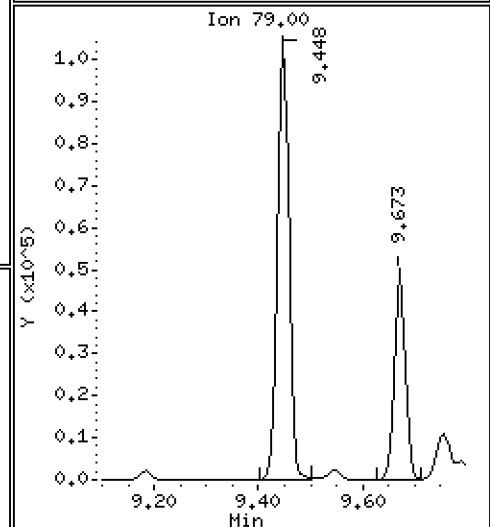
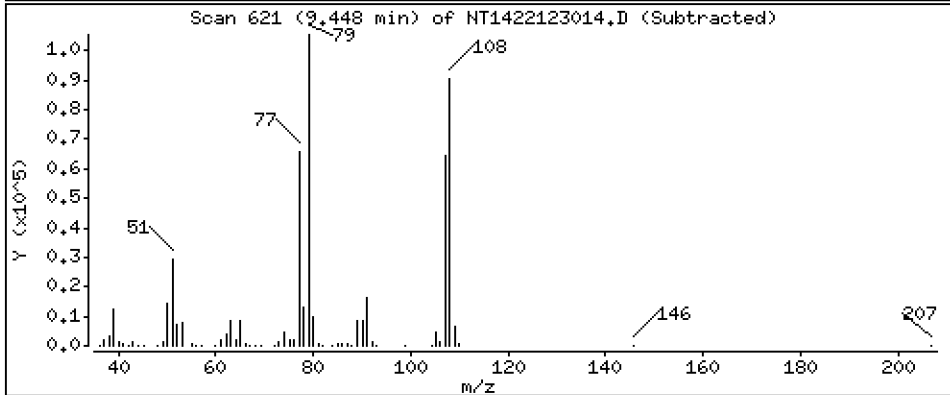
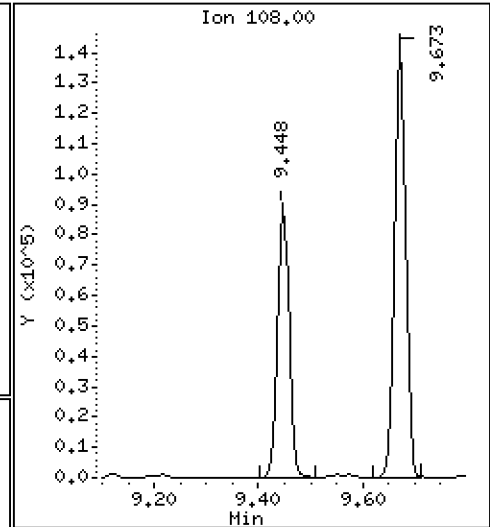
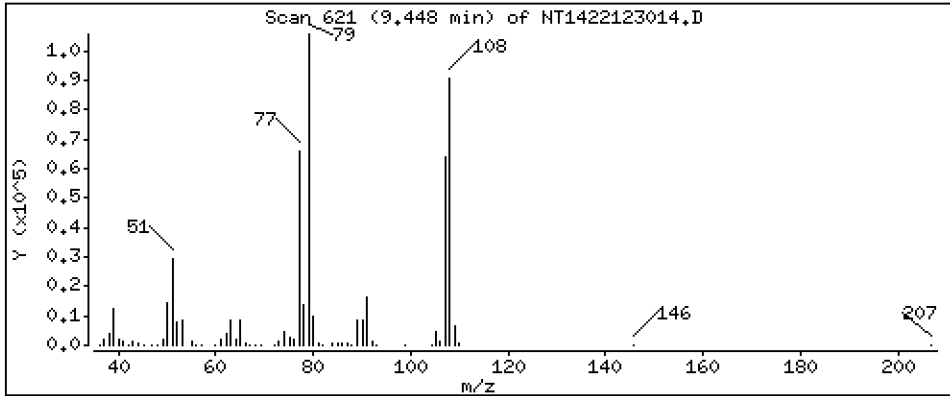
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,960 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

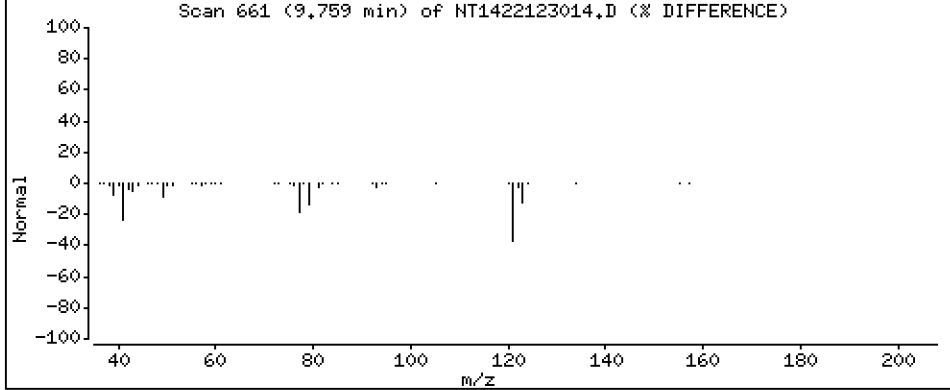
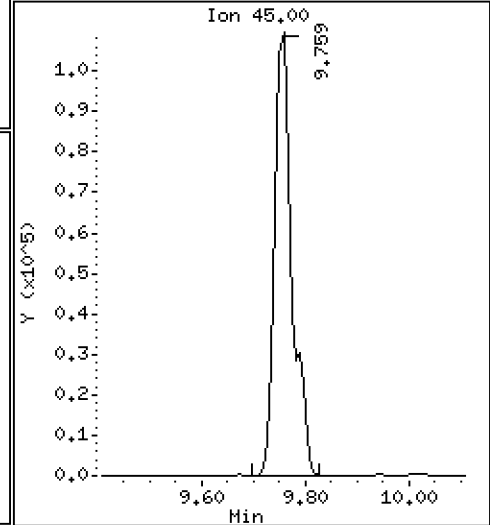
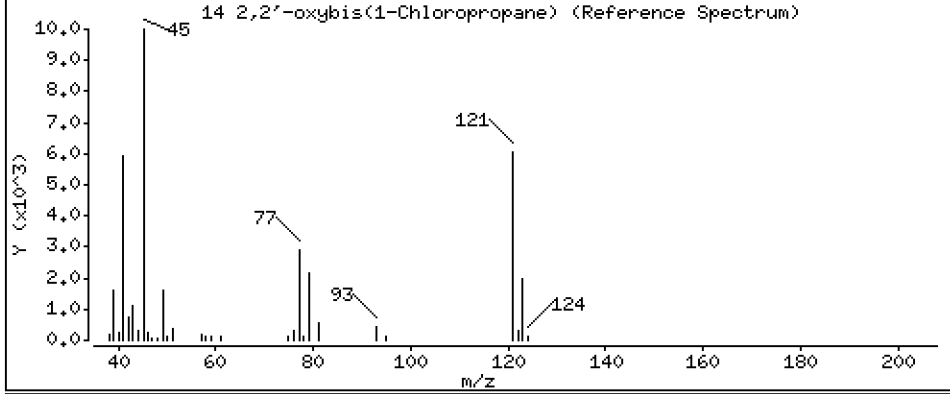
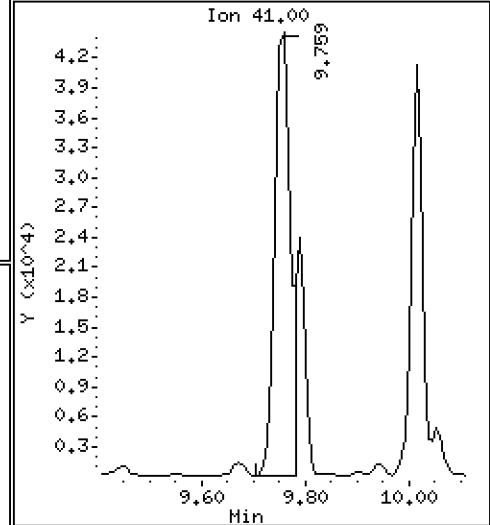
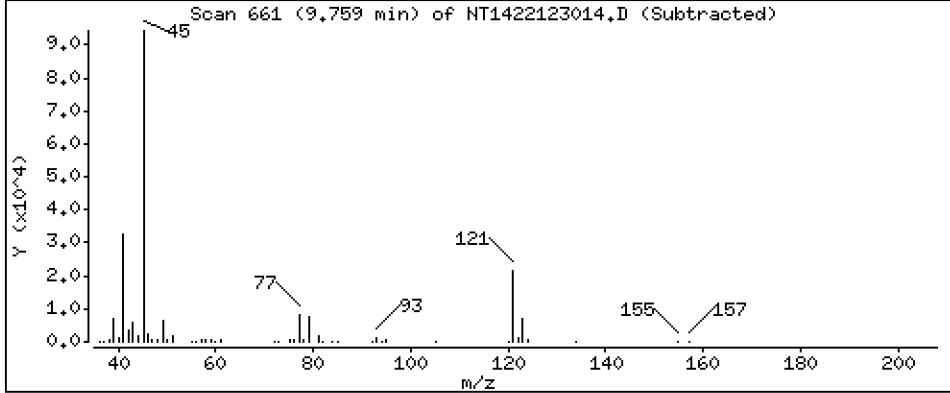
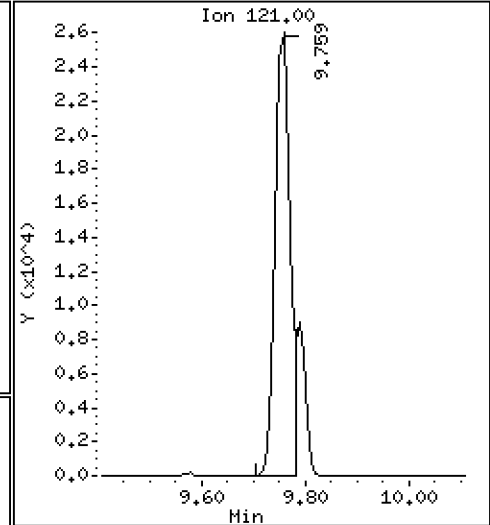
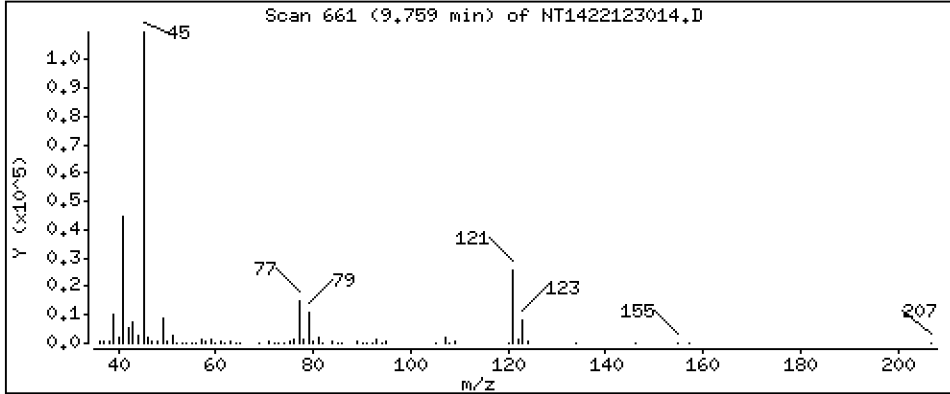
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 3,732 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

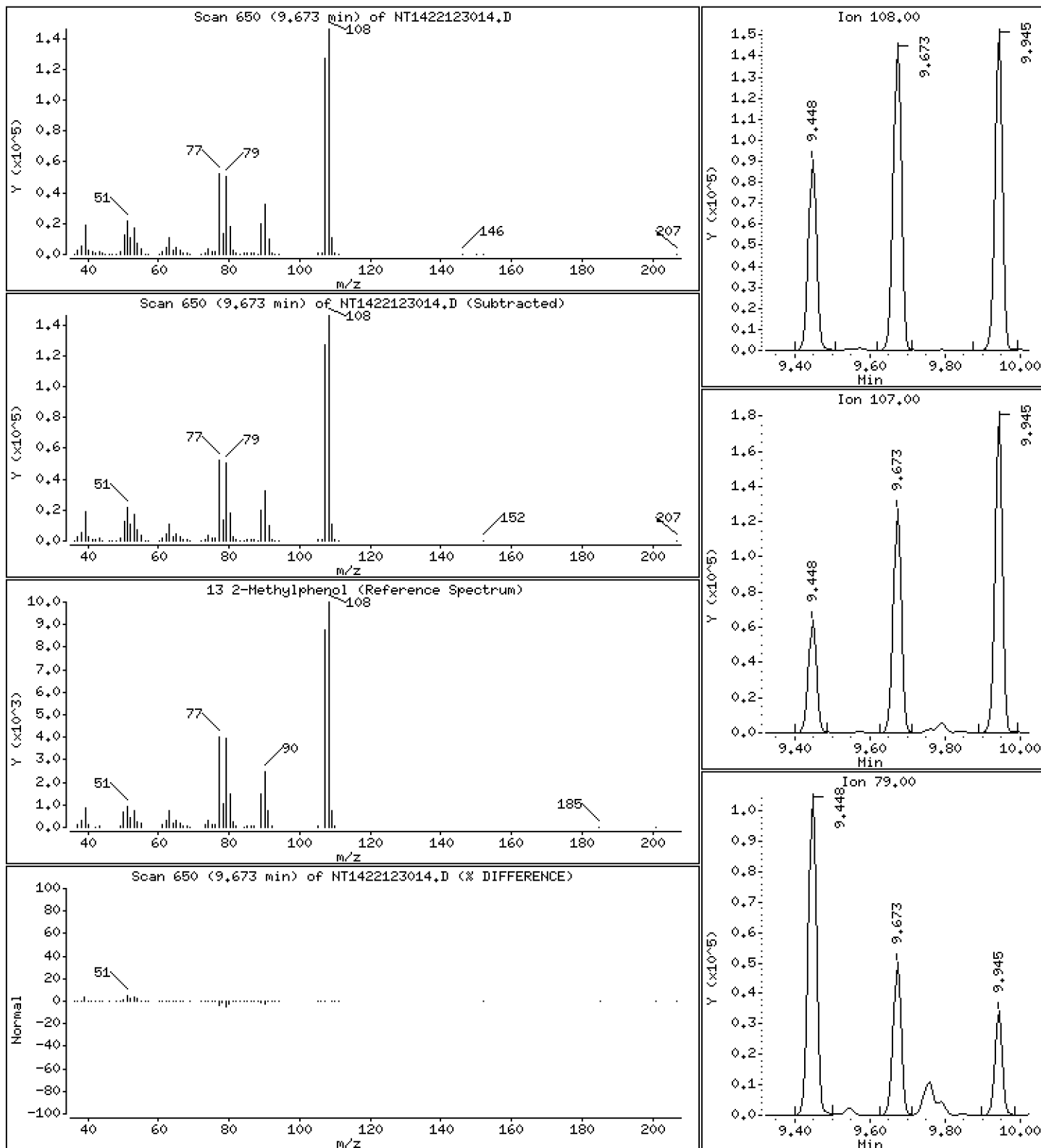
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.858 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

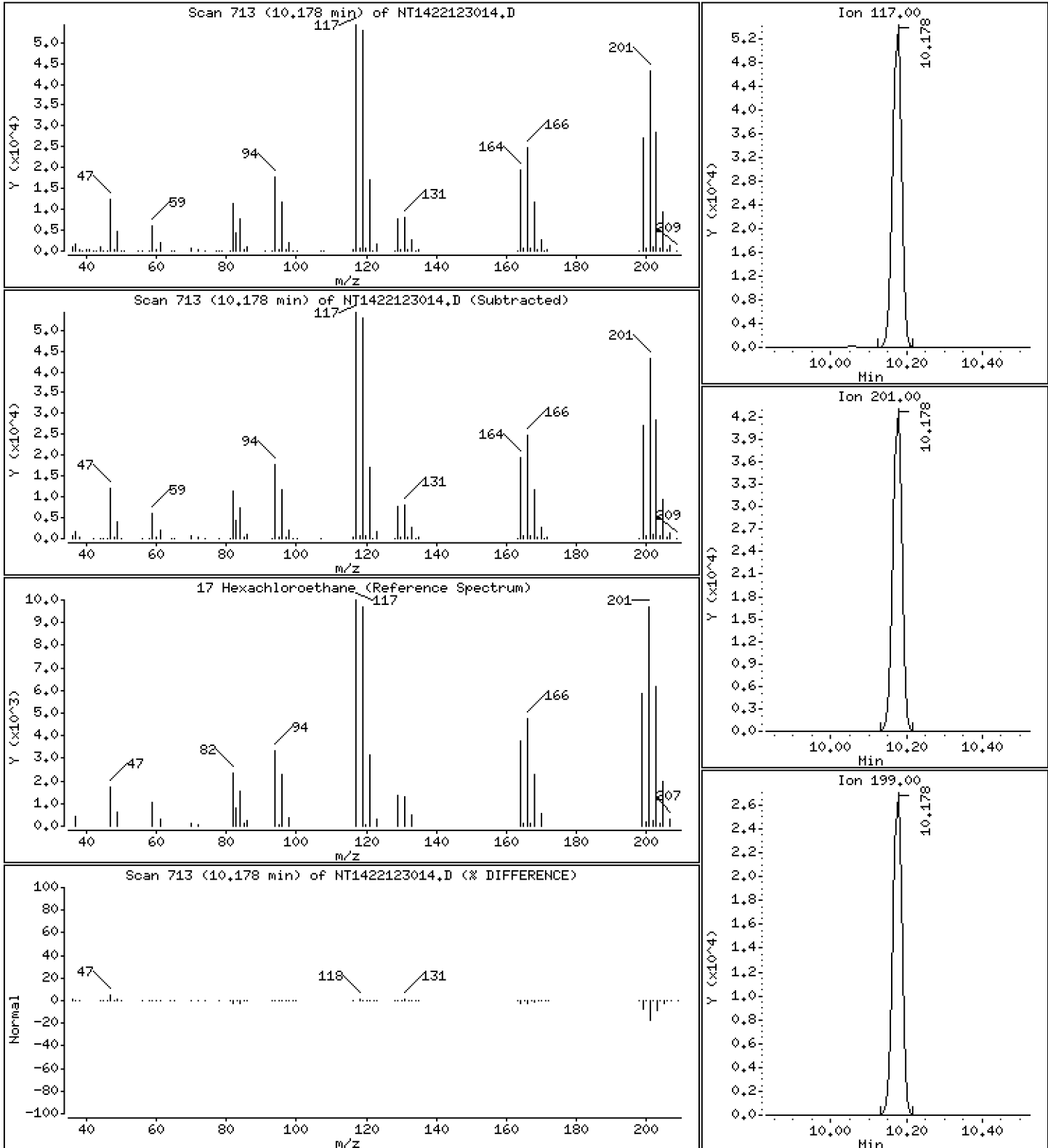
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 4,777 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

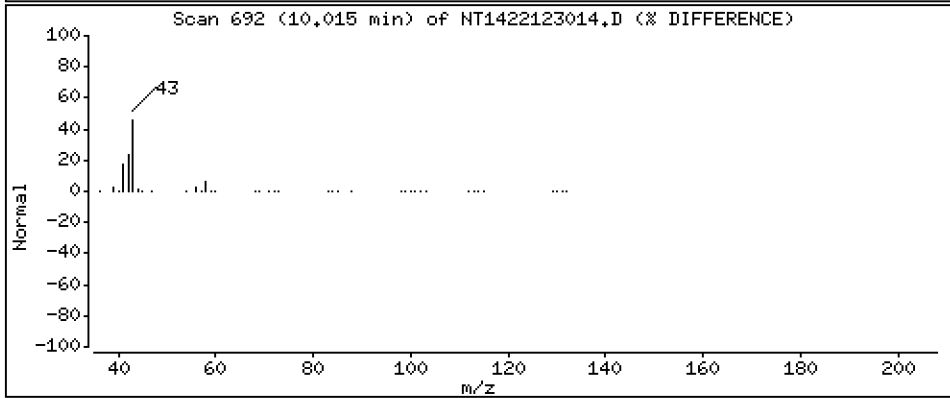
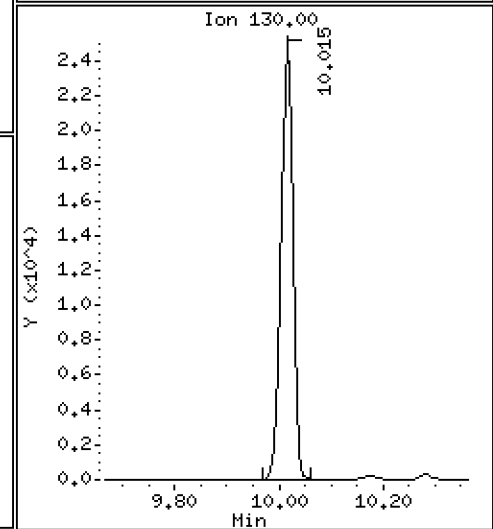
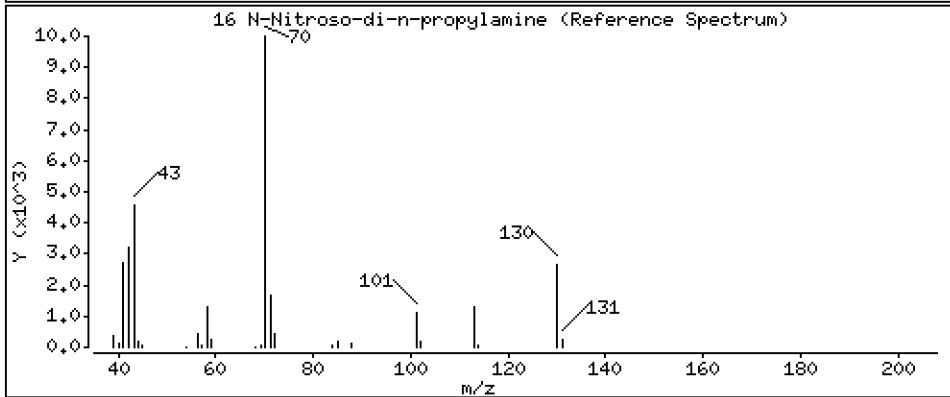
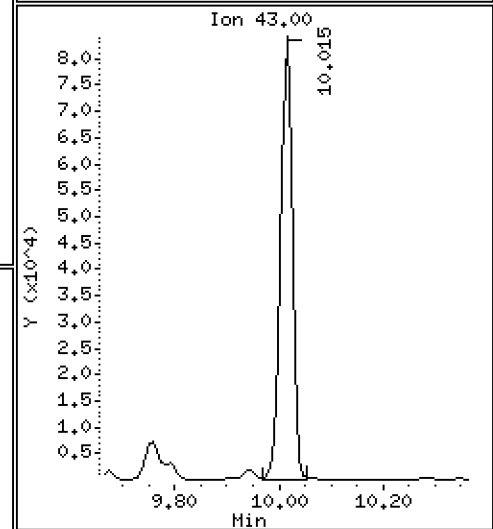
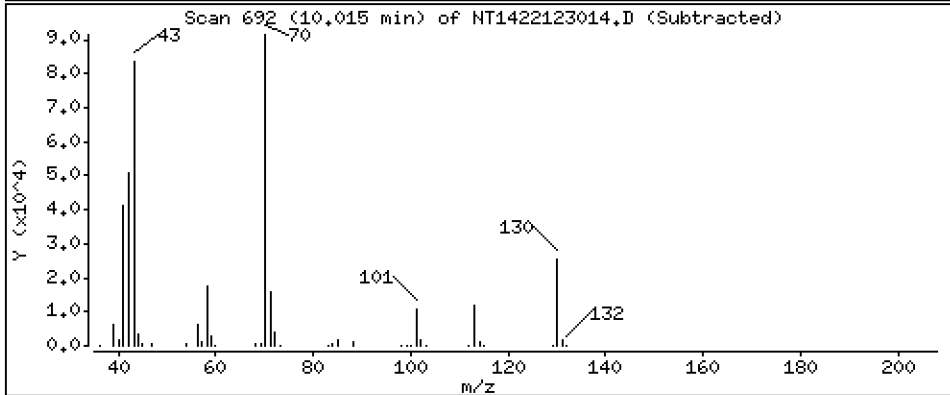
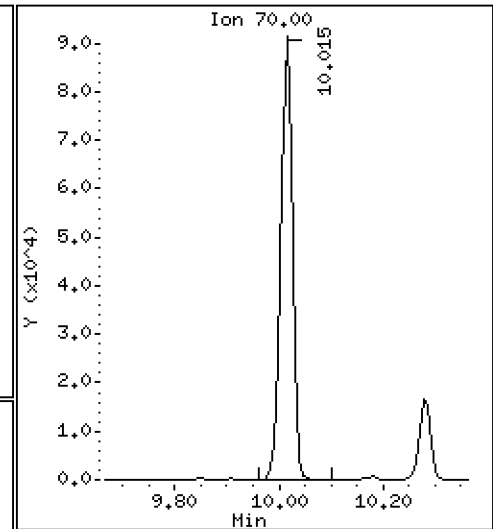
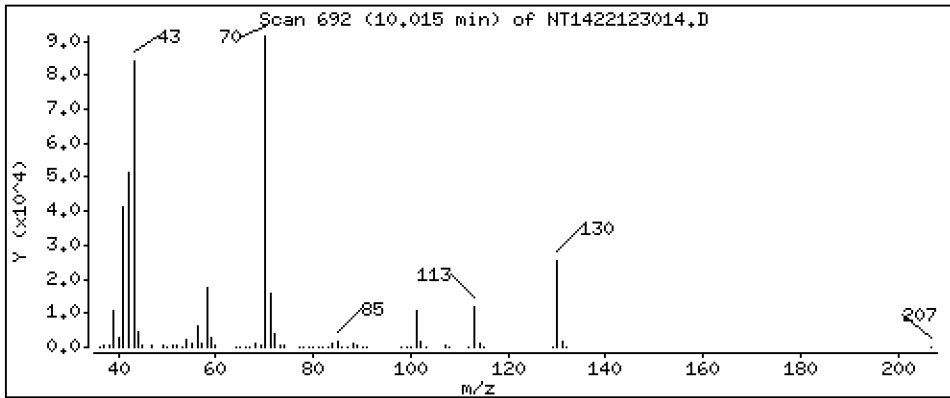
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,157 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

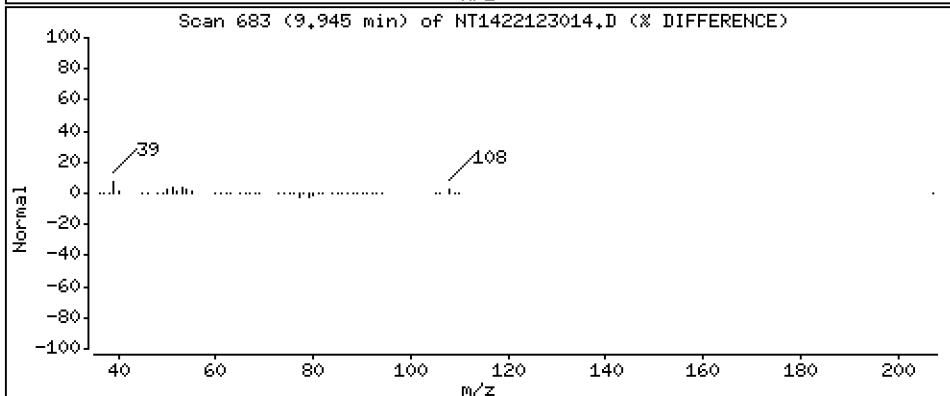
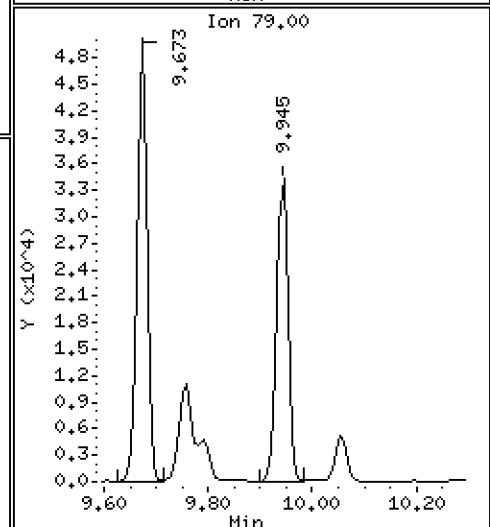
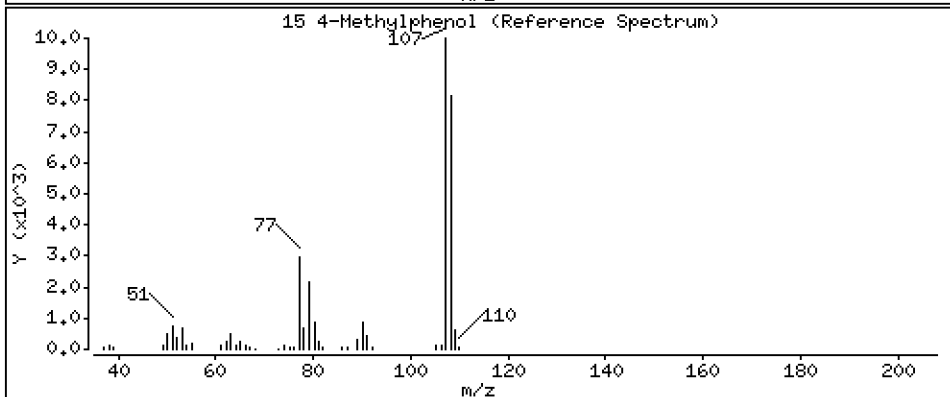
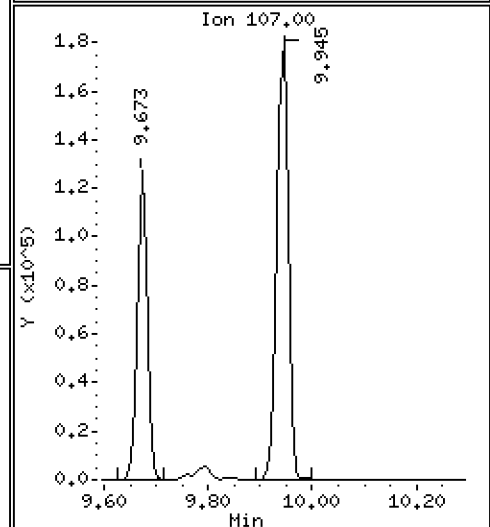
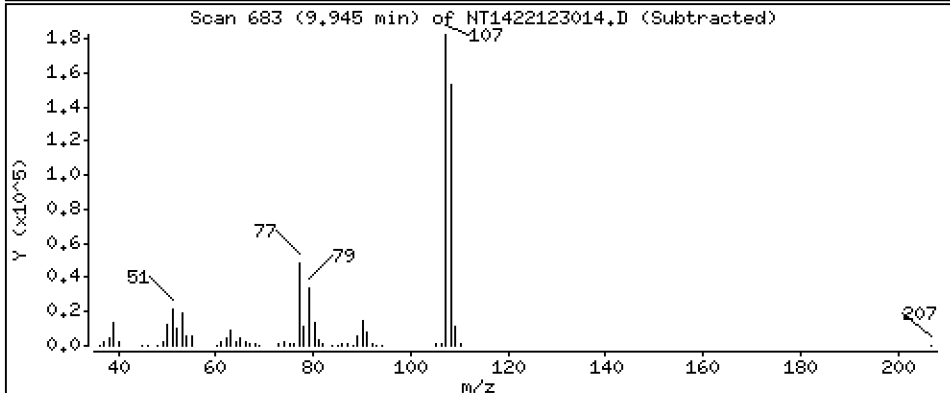
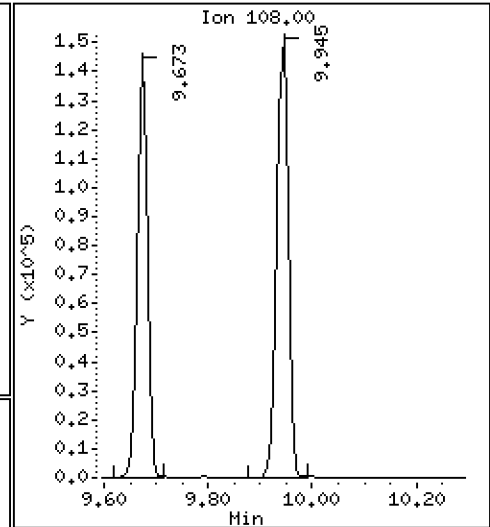
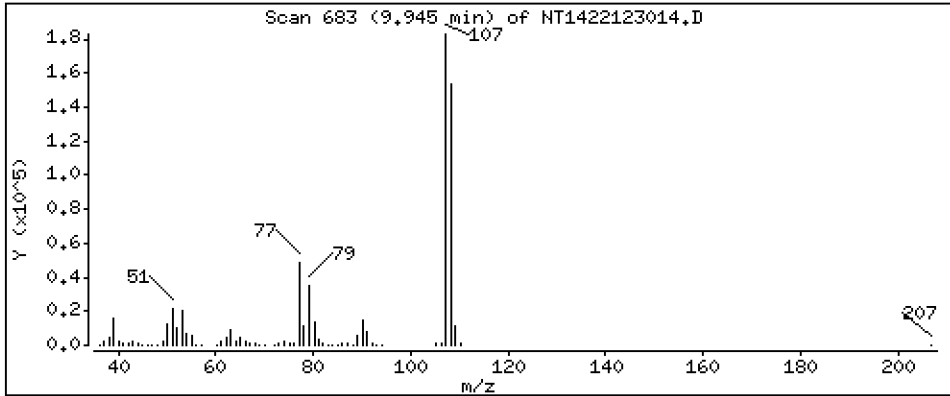
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,896 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

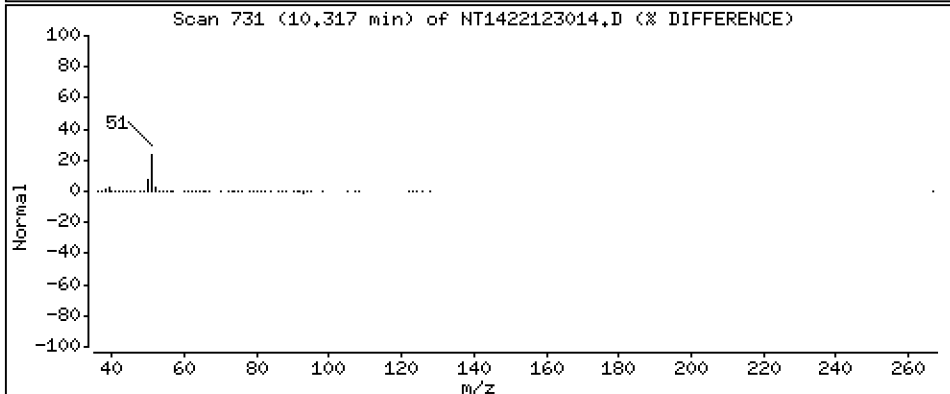
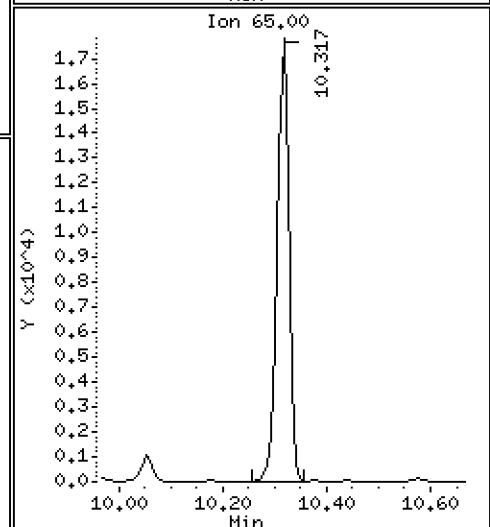
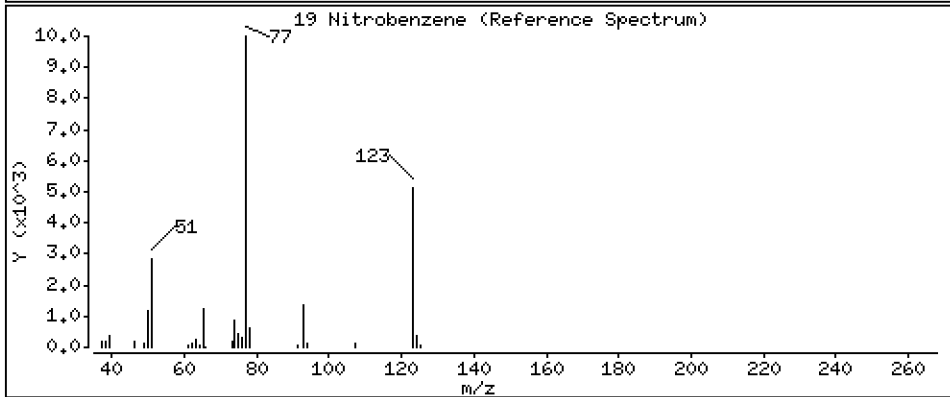
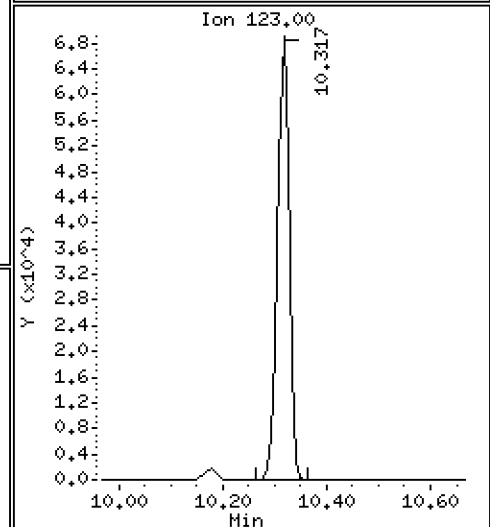
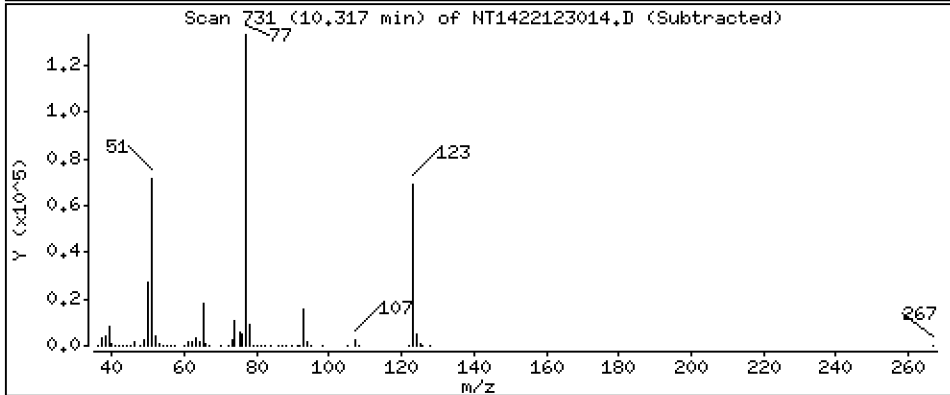
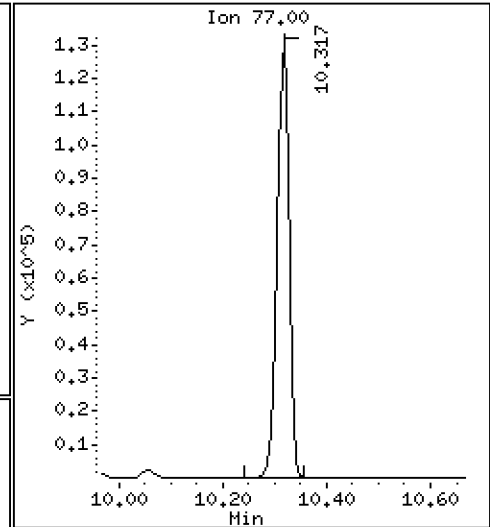
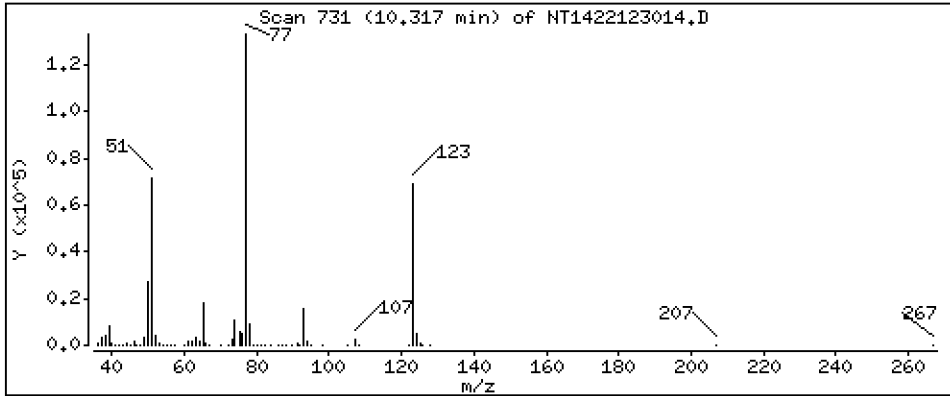
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,844 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

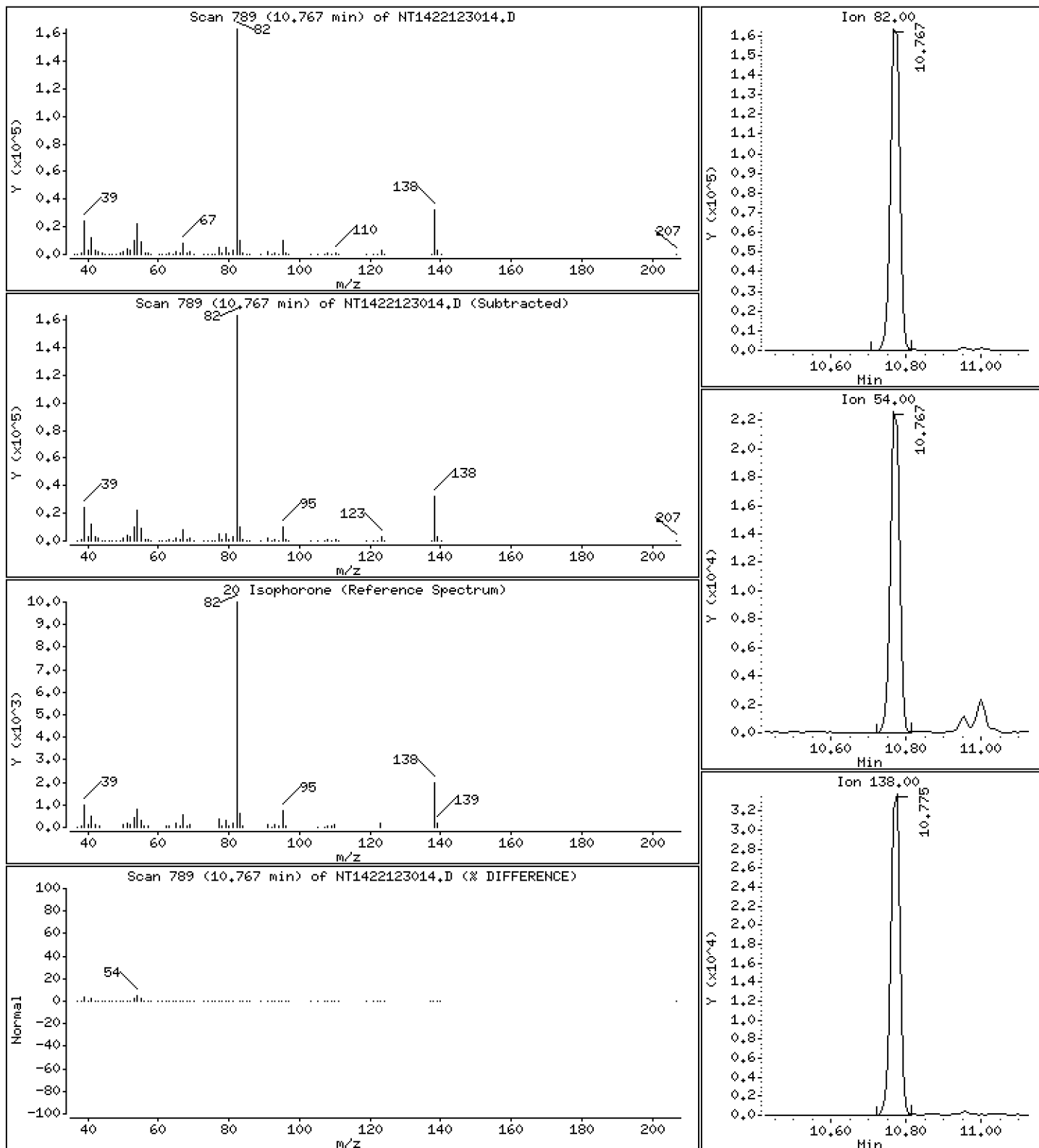
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,100 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

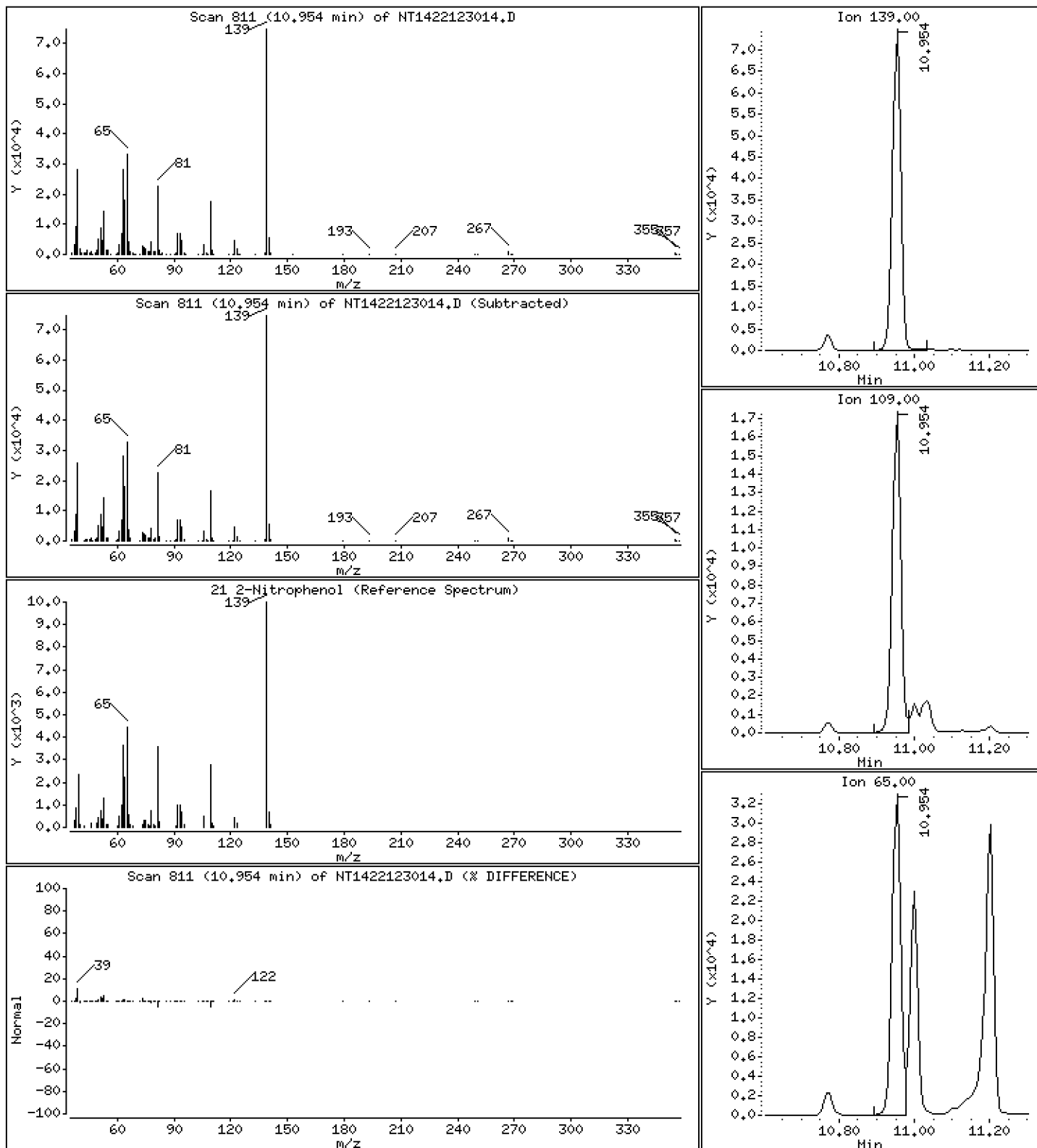
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 4,700 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

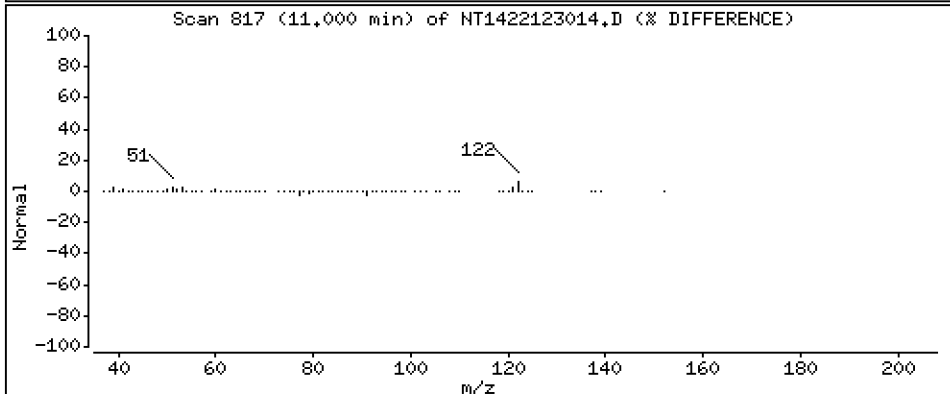
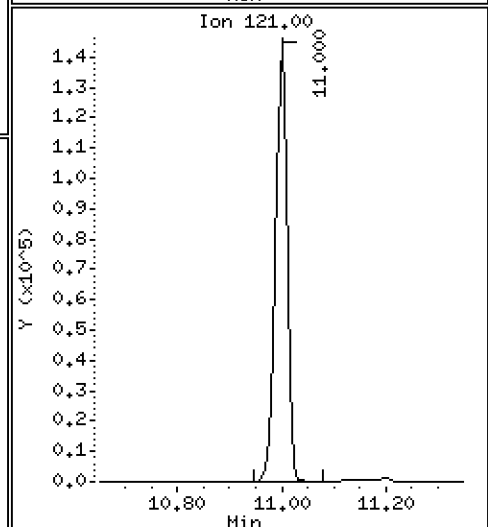
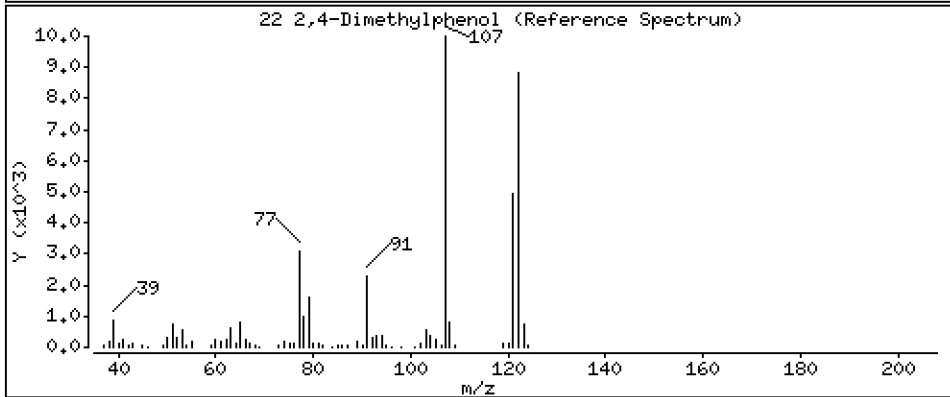
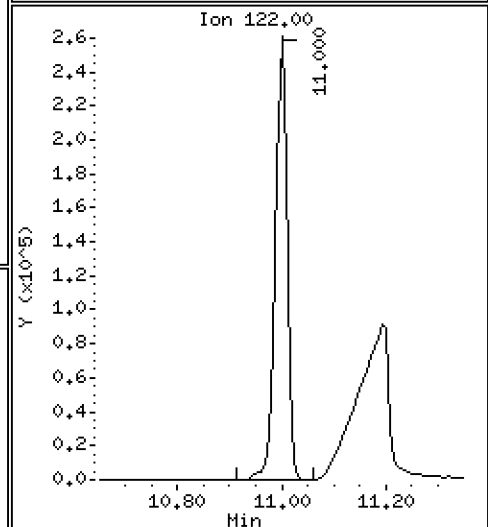
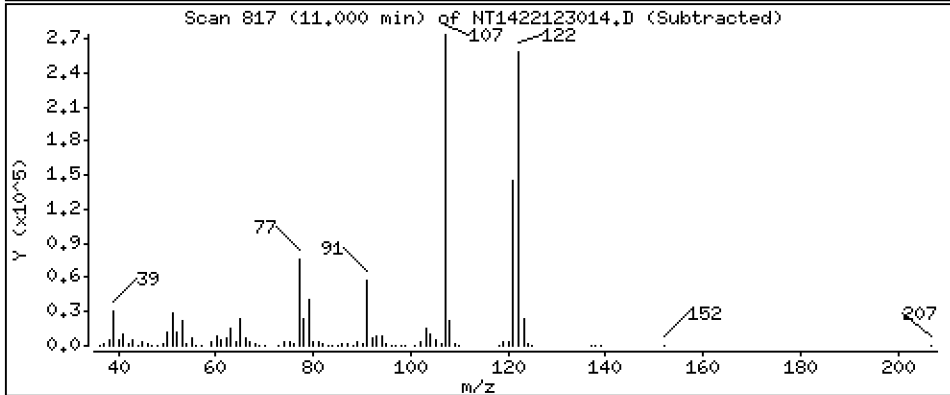
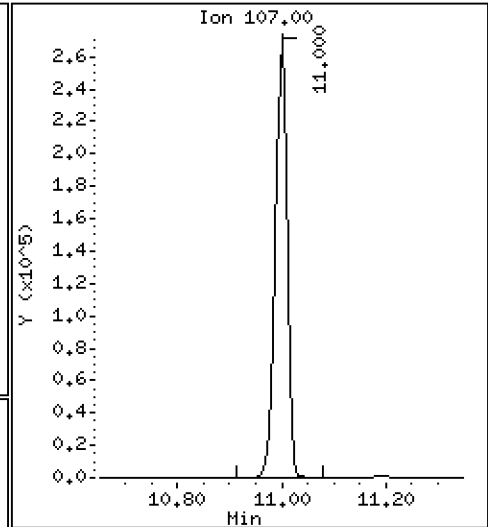
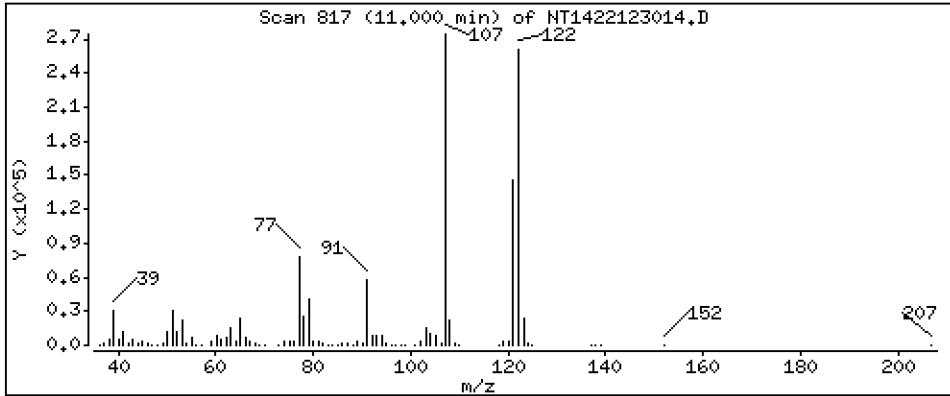
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 9,464 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

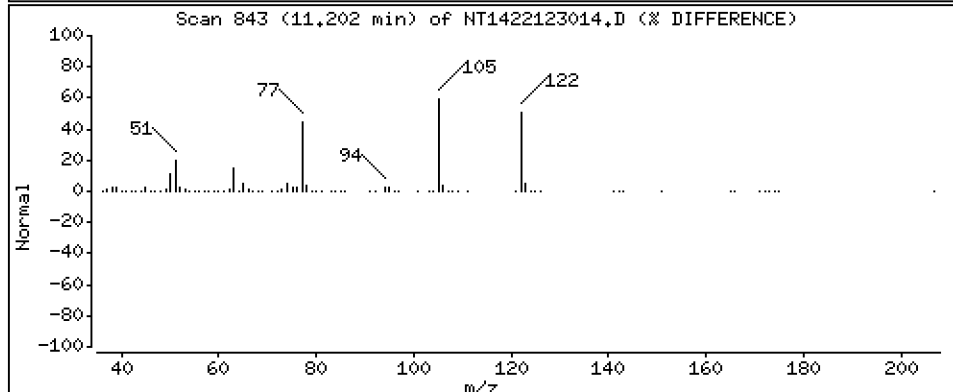
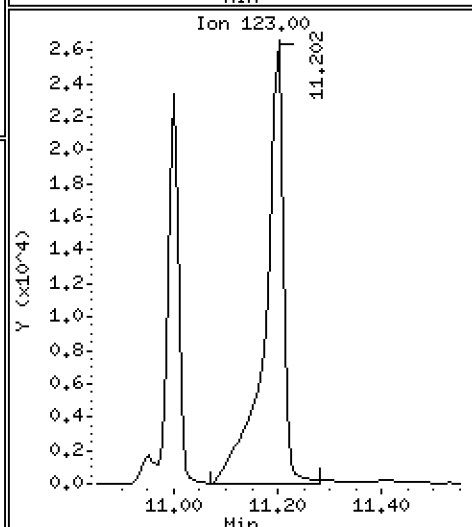
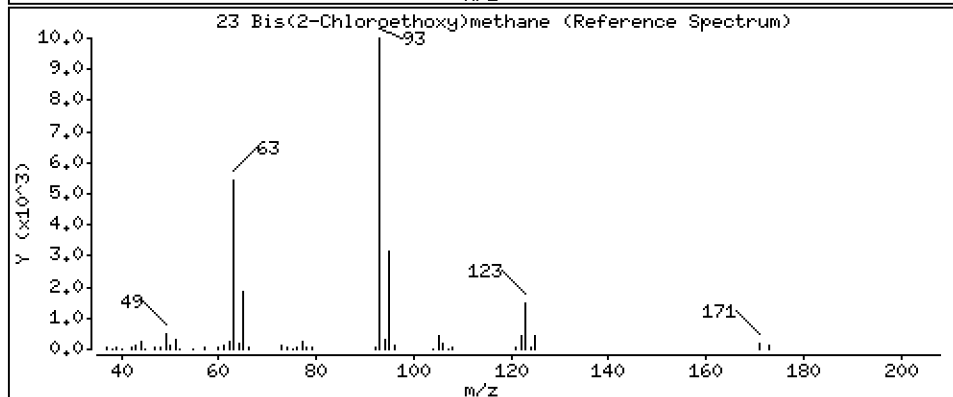
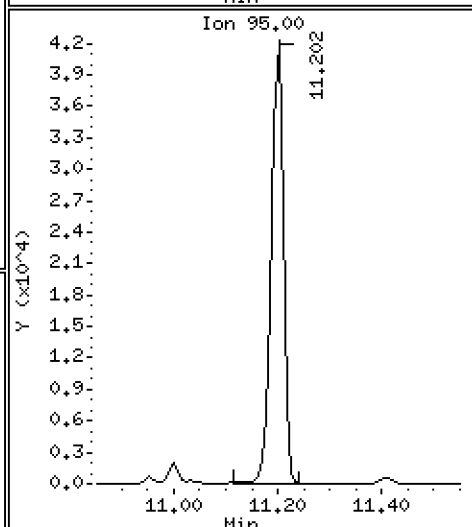
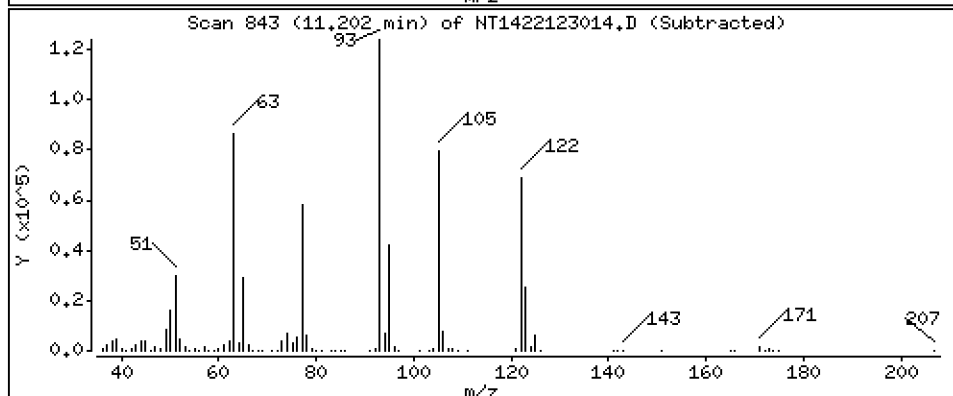
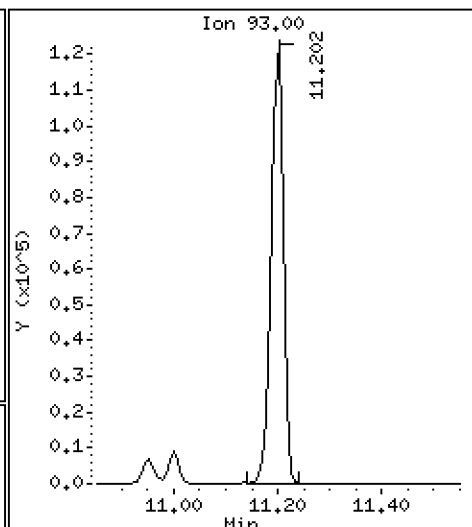
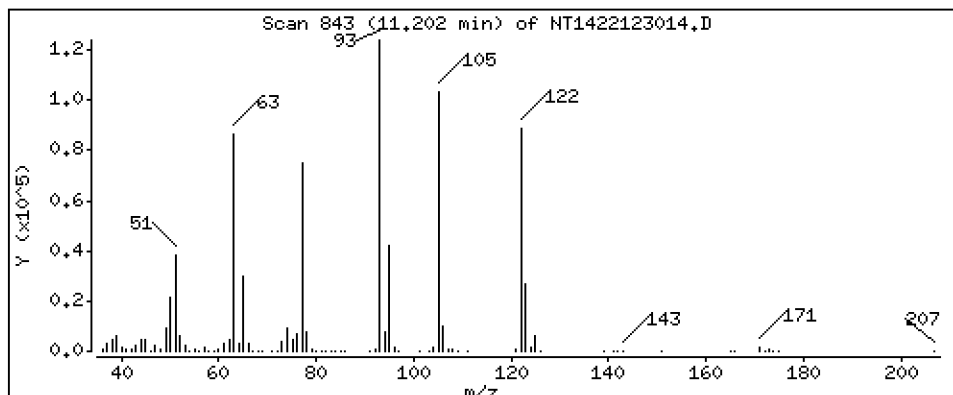
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,648 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

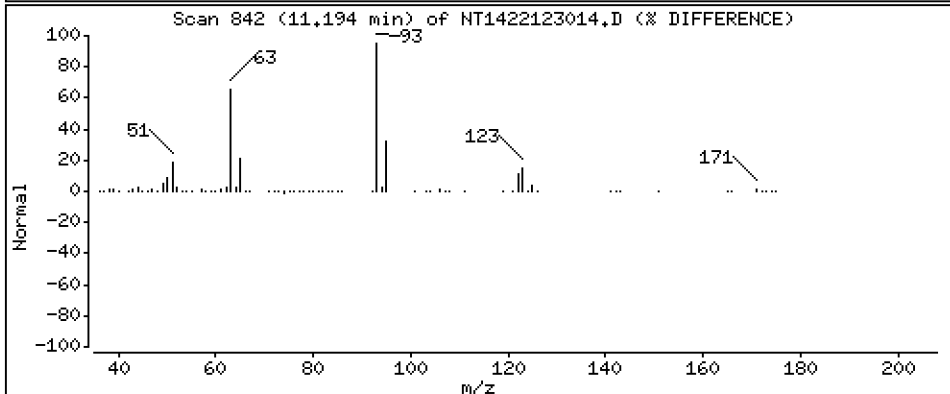
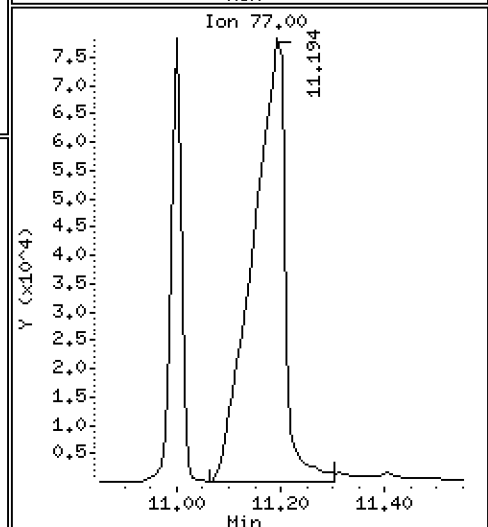
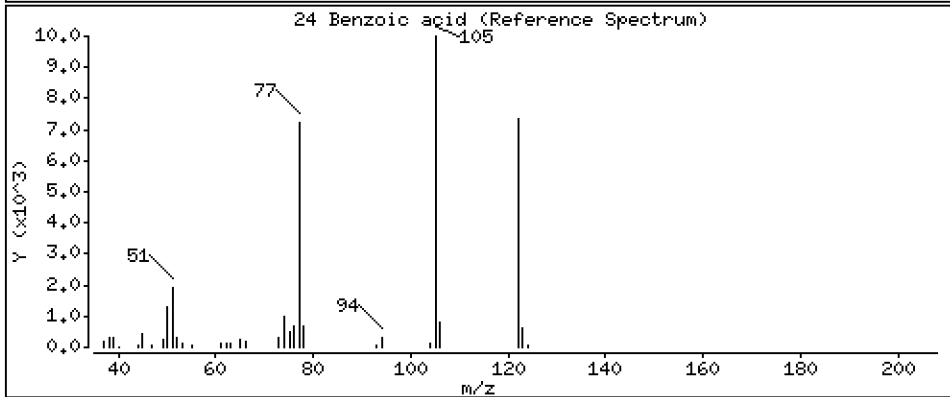
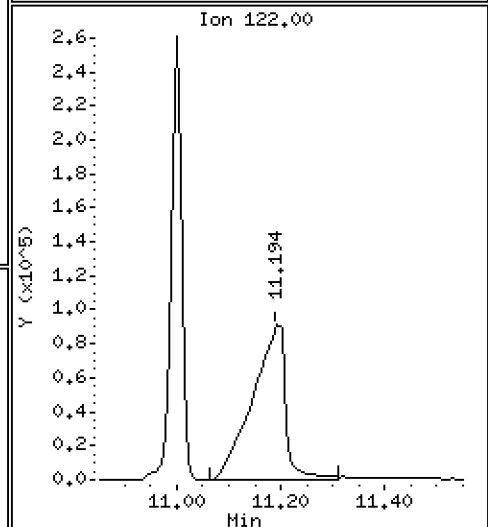
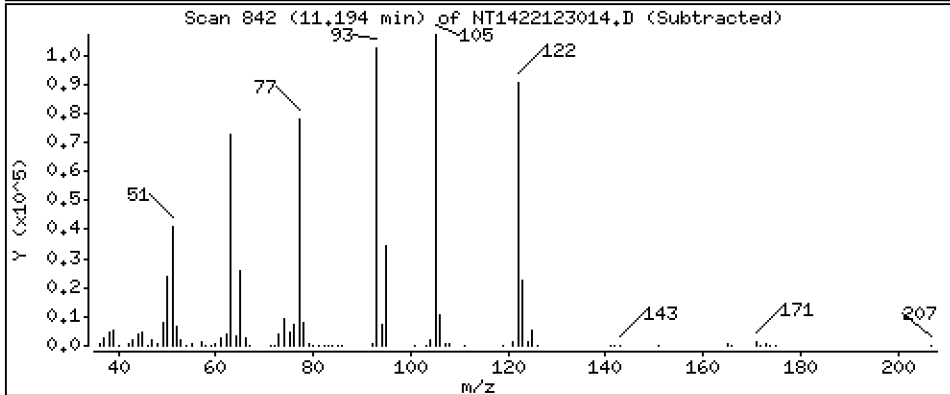
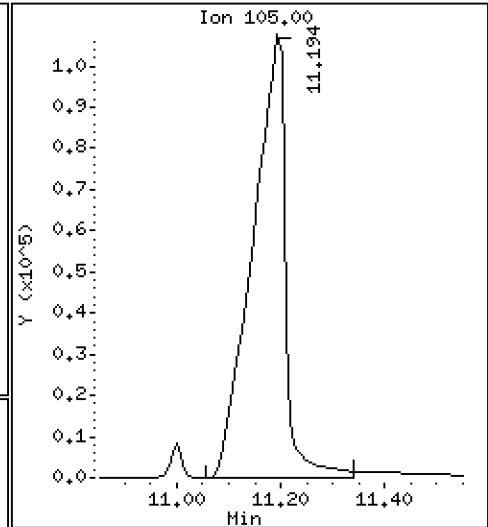
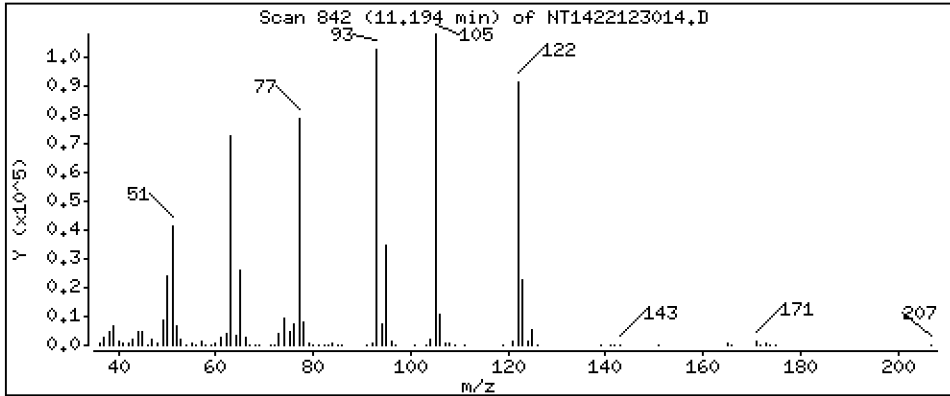
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

24 Benzoic acid

Concentration: 17,39 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

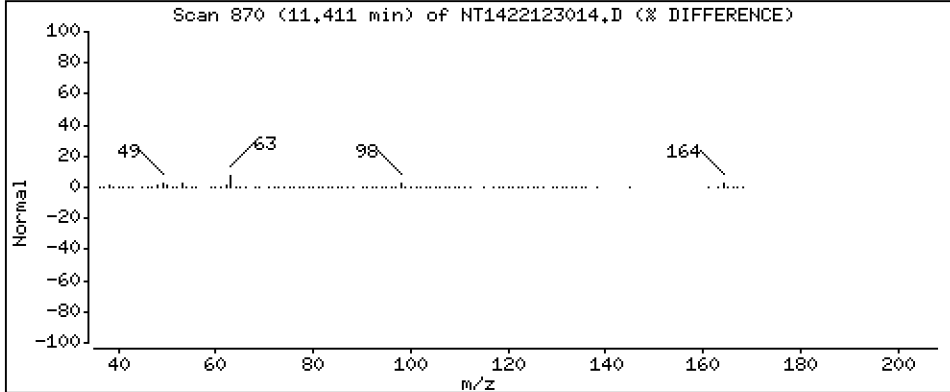
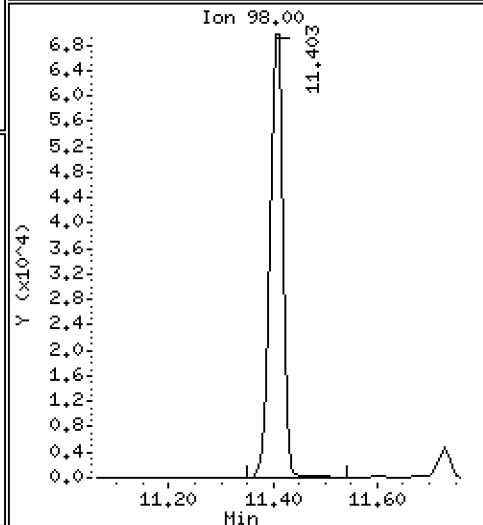
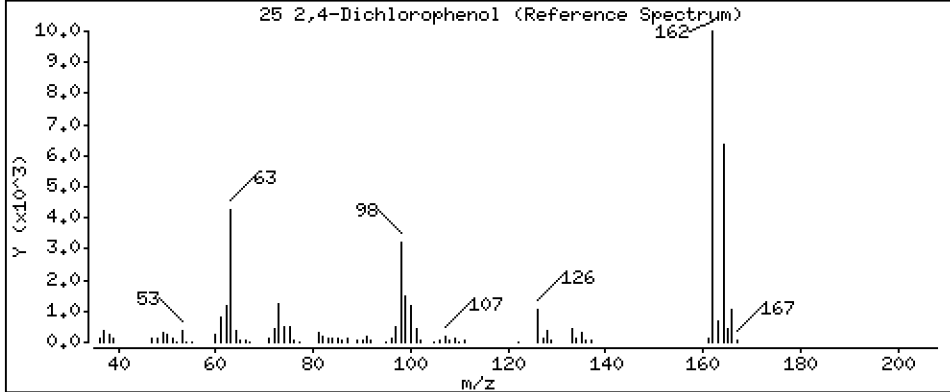
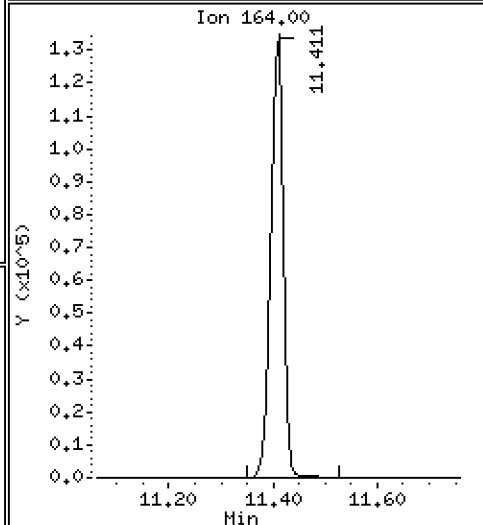
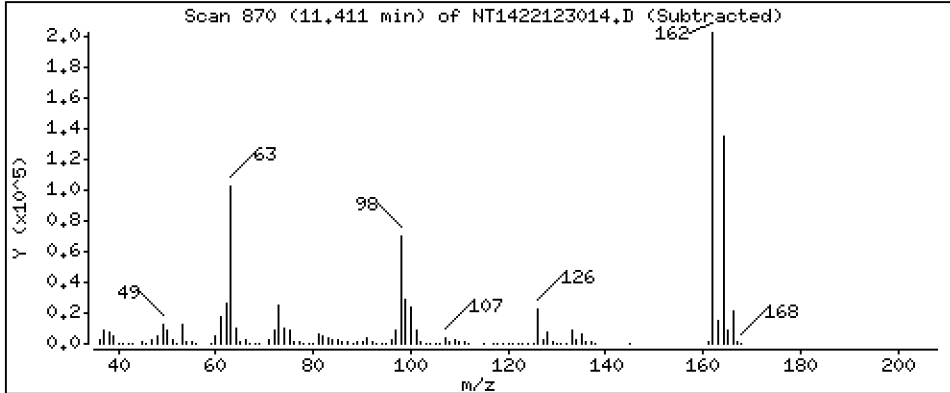
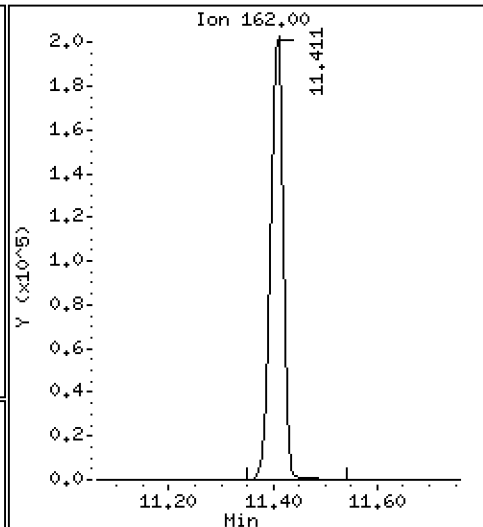
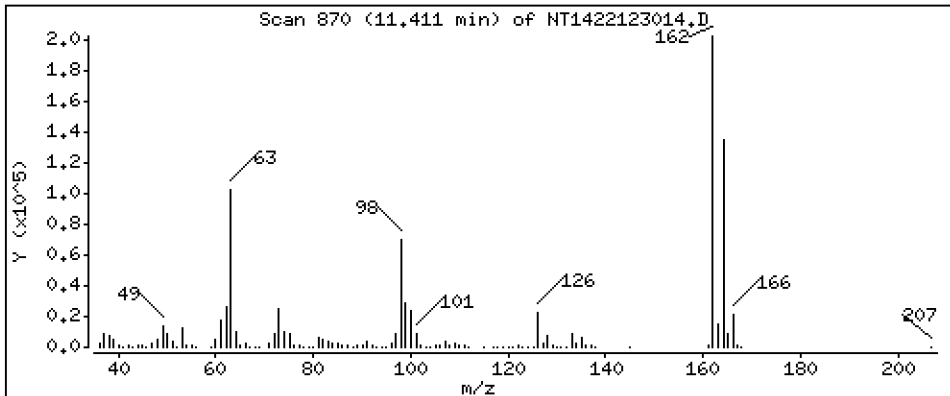
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 10,02 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

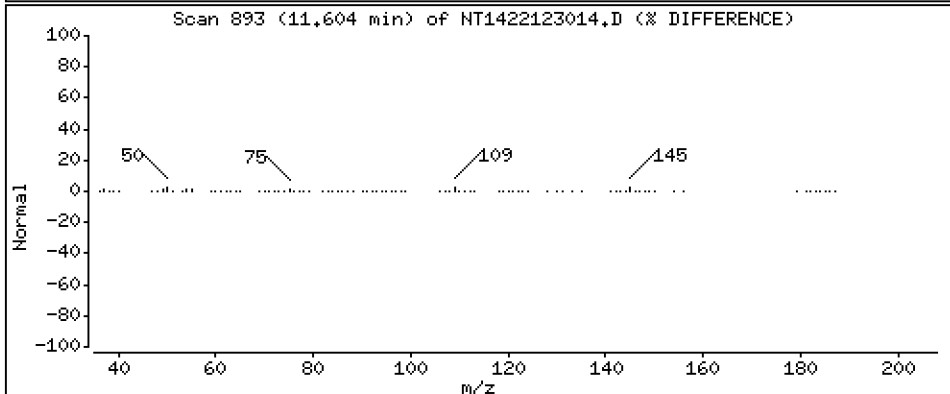
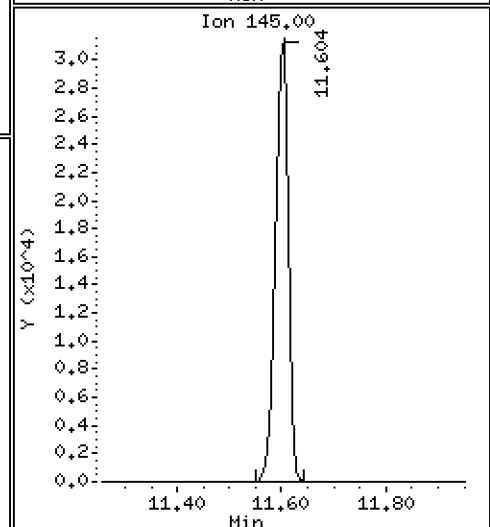
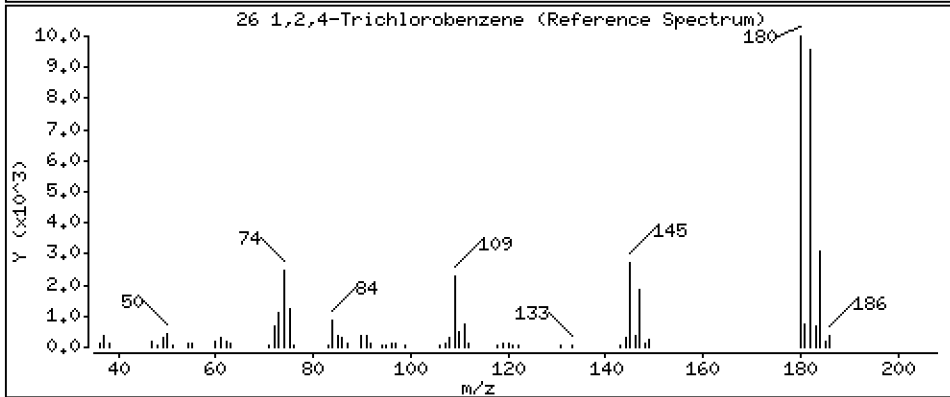
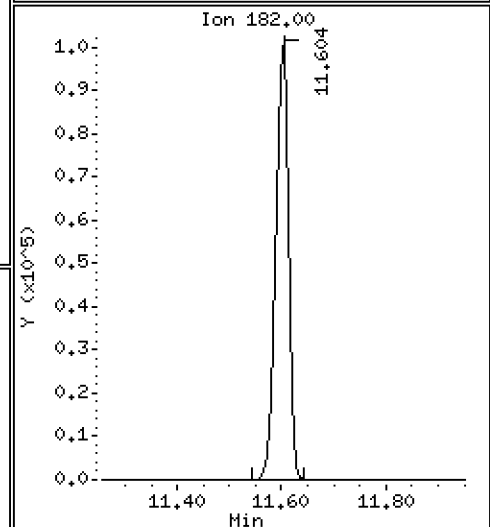
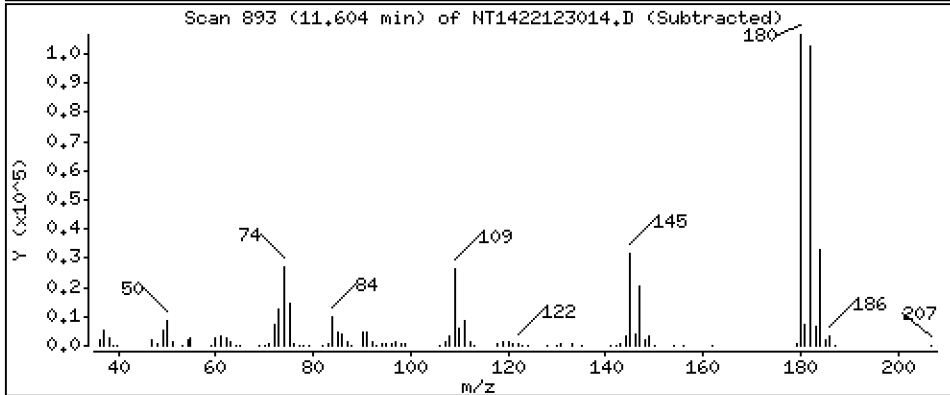
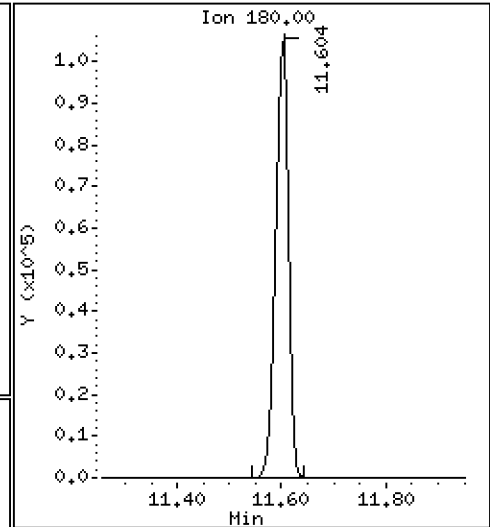
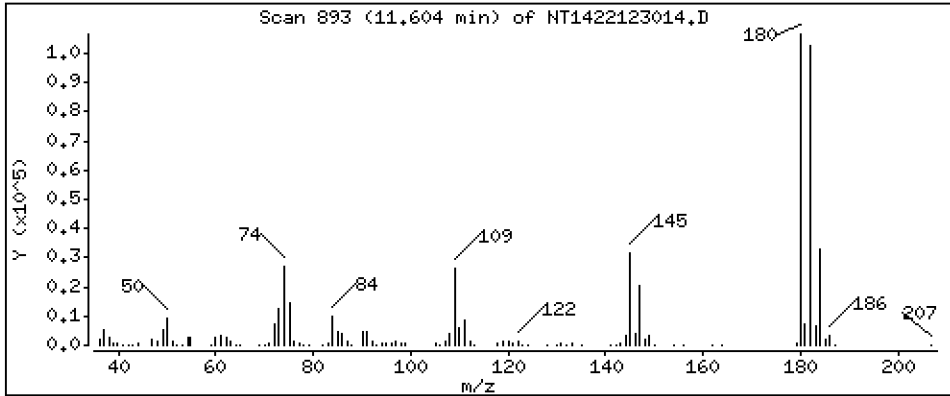
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,464 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

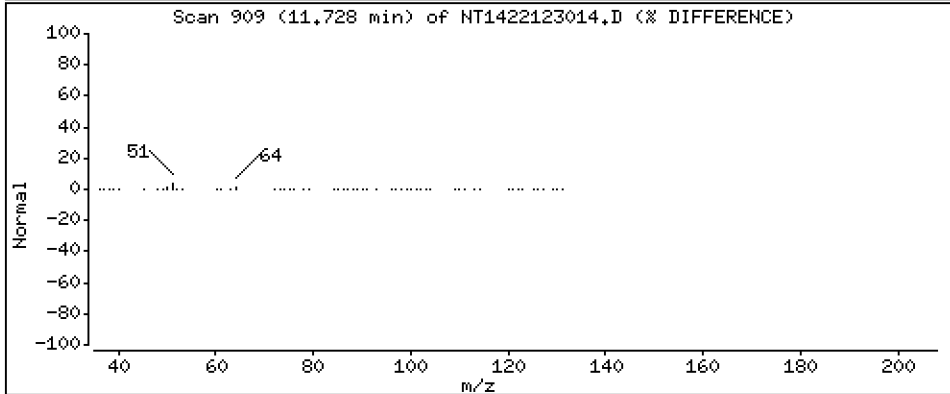
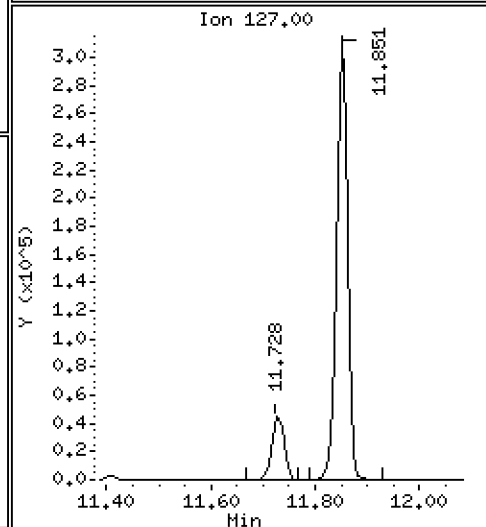
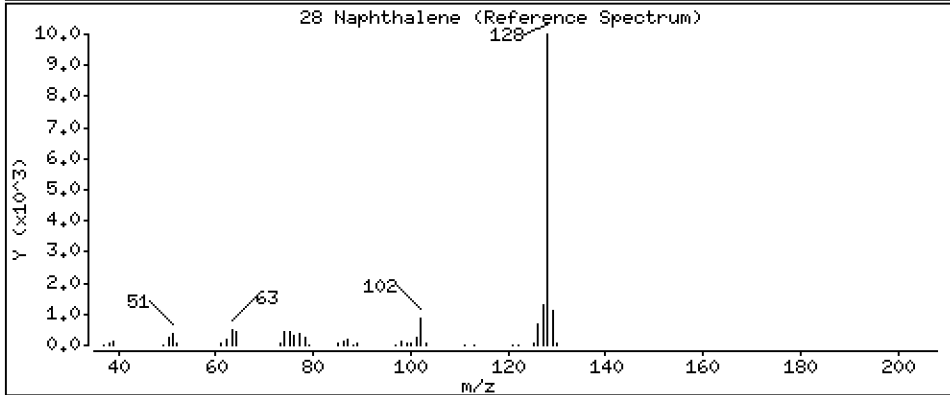
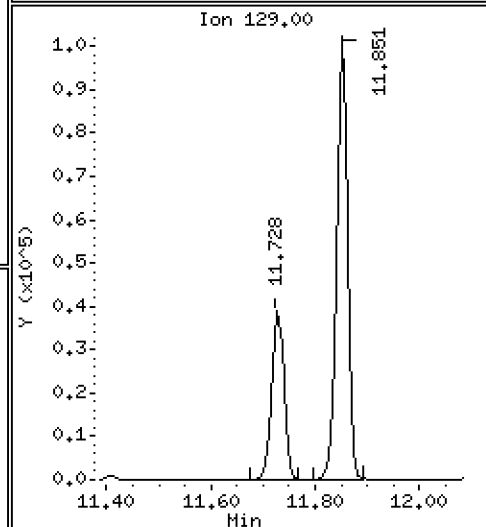
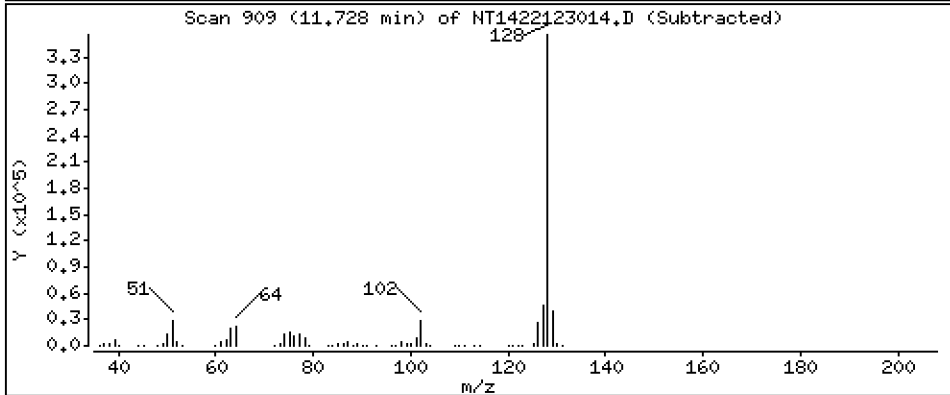
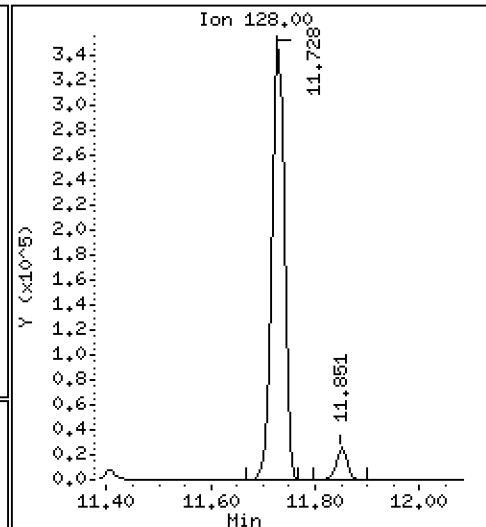
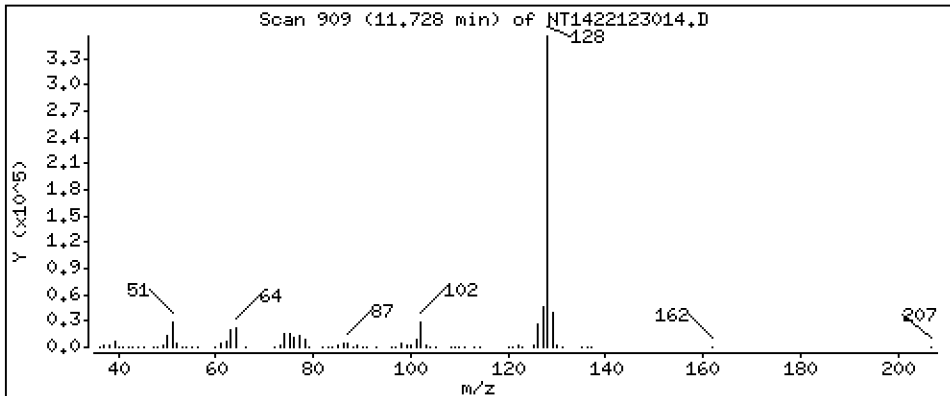
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,578 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

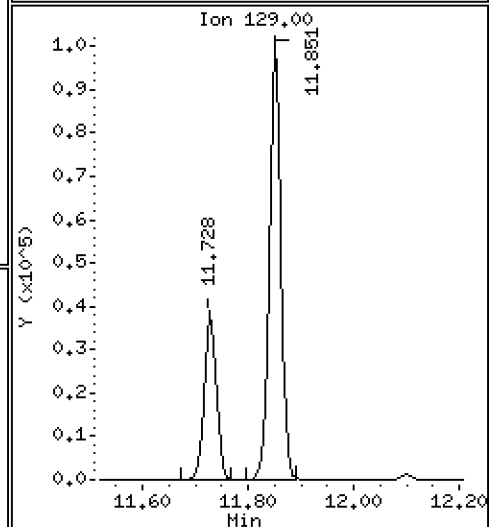
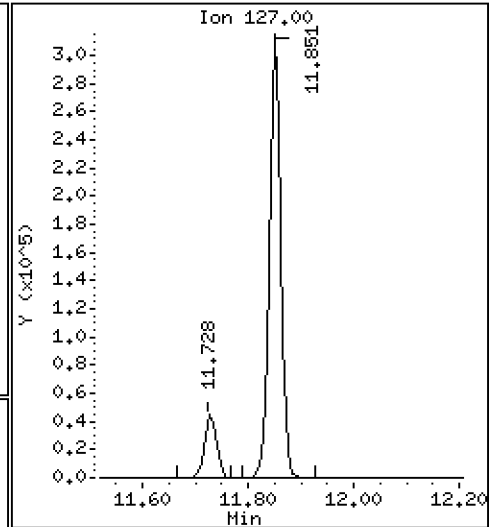
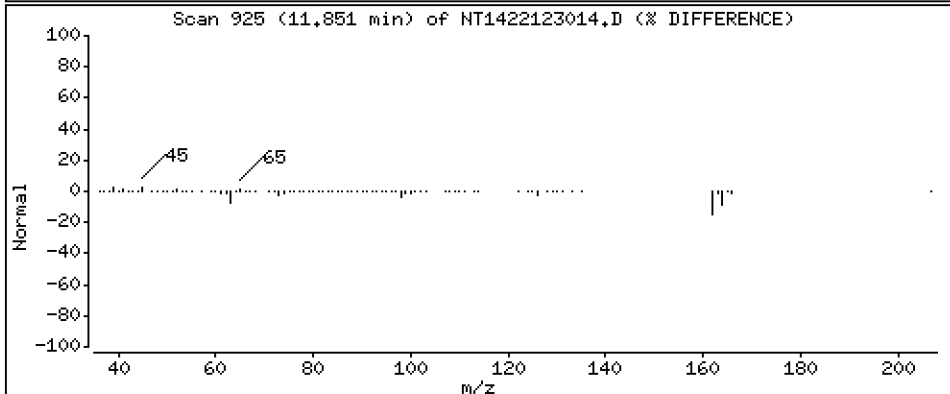
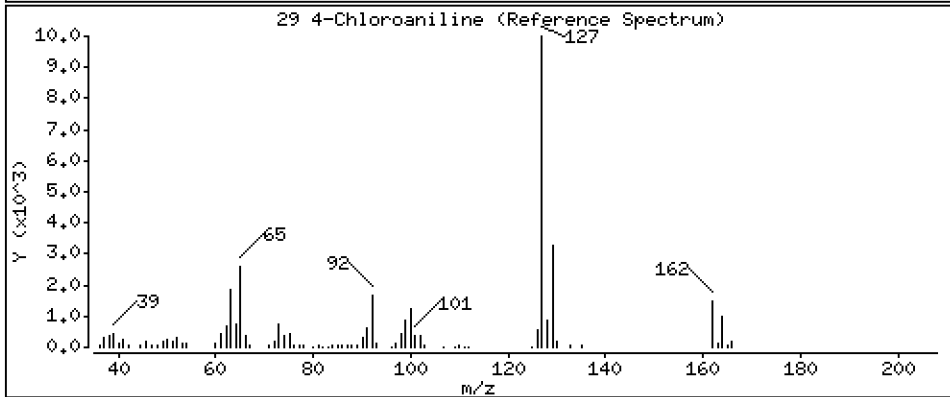
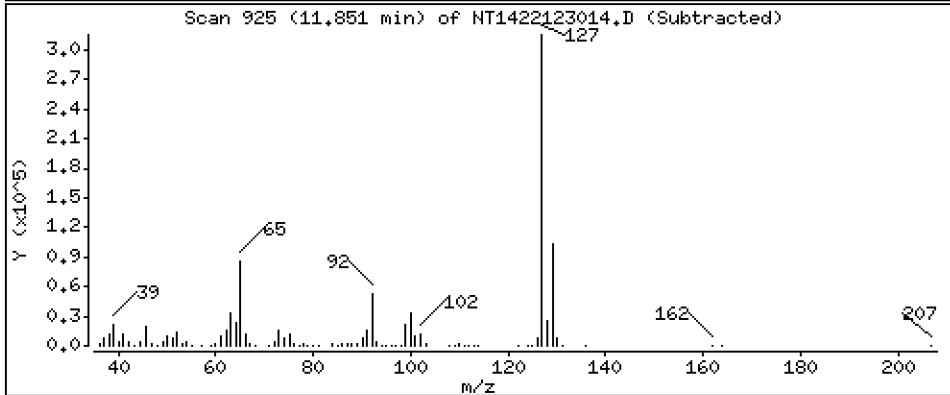
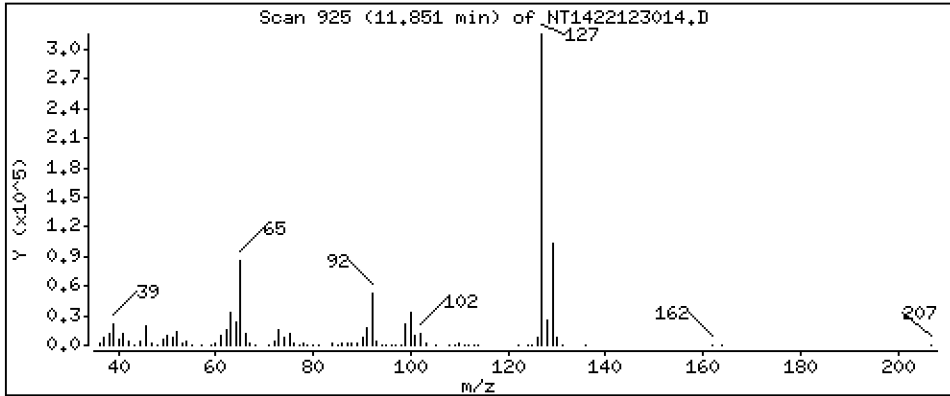
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 9,732 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

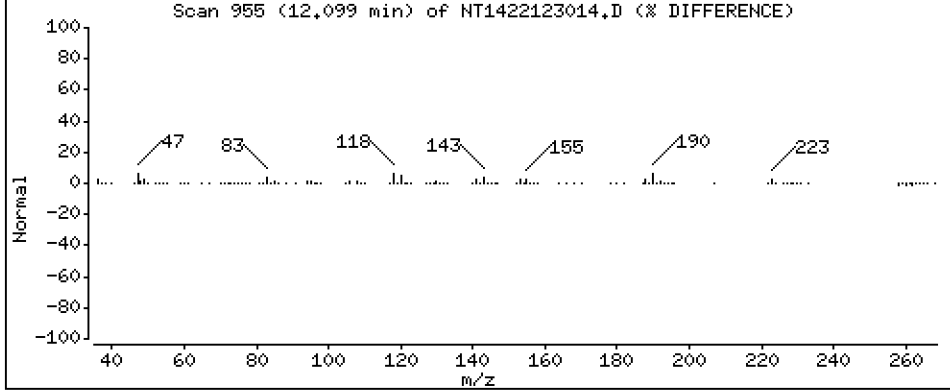
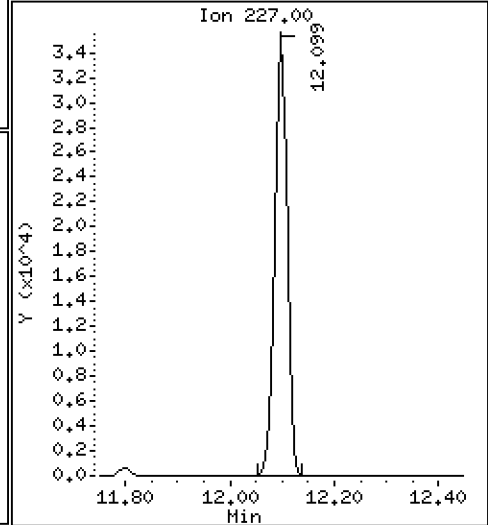
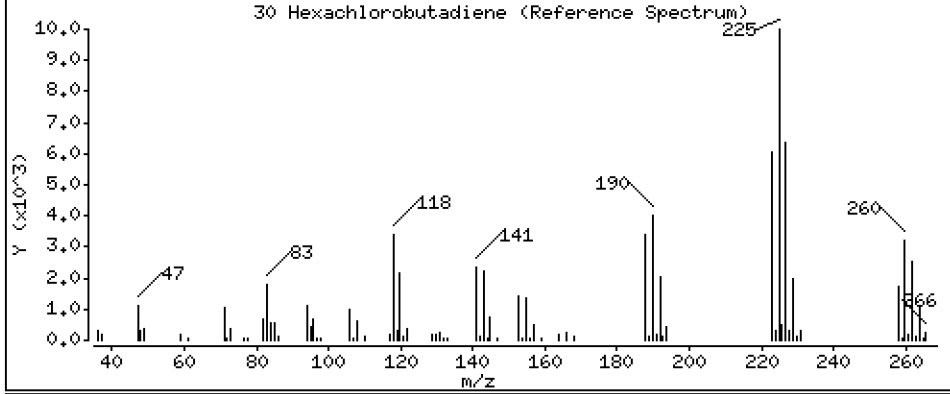
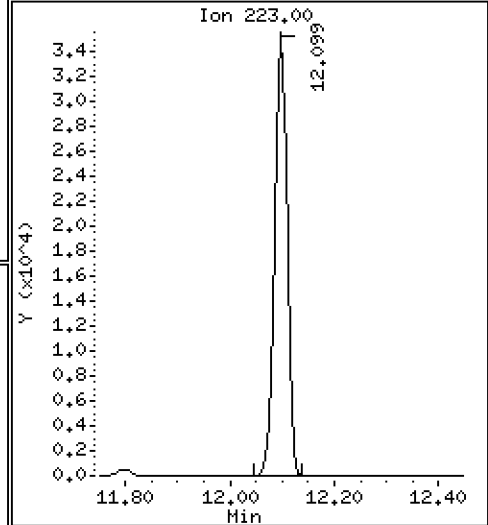
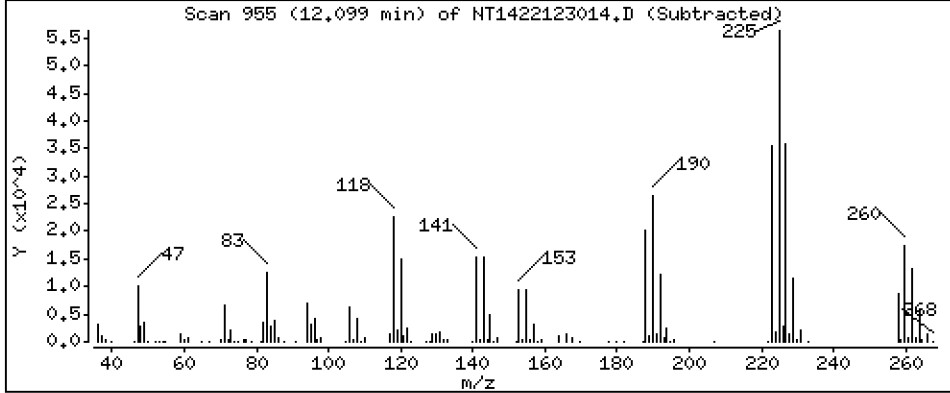
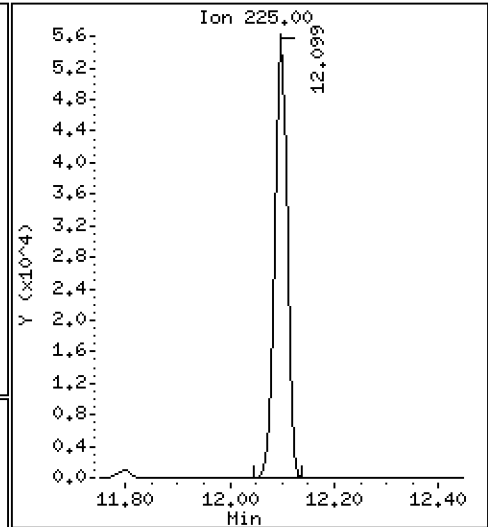
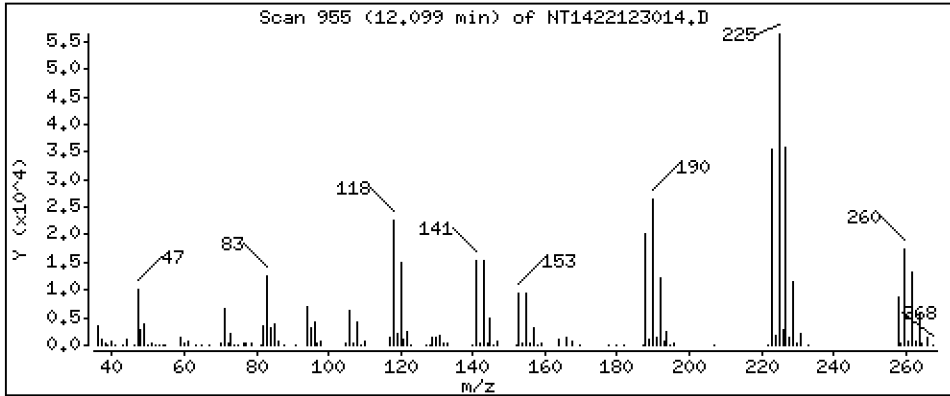
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,536 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

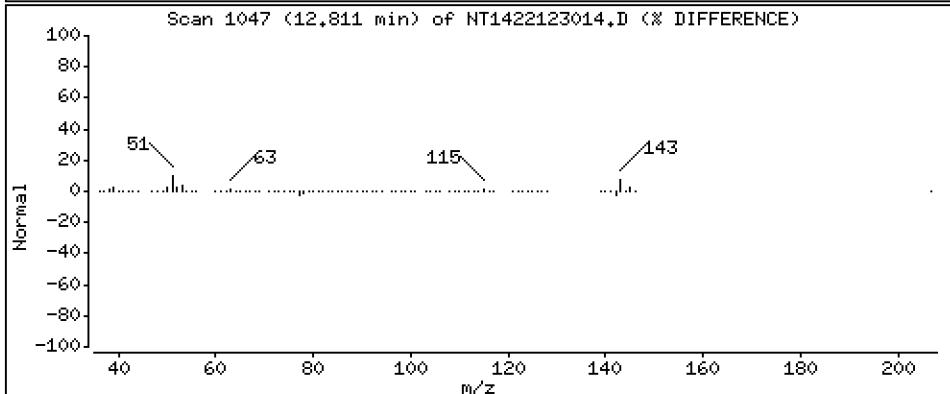
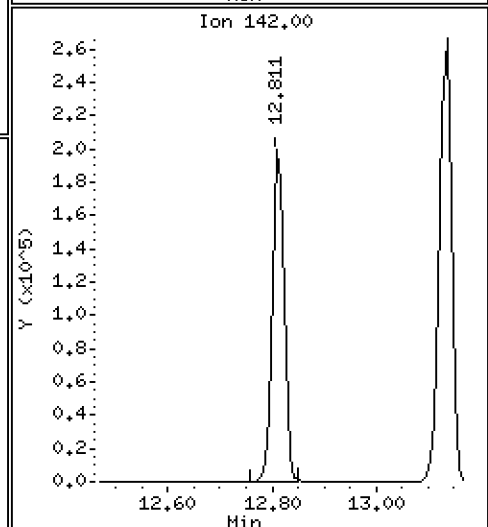
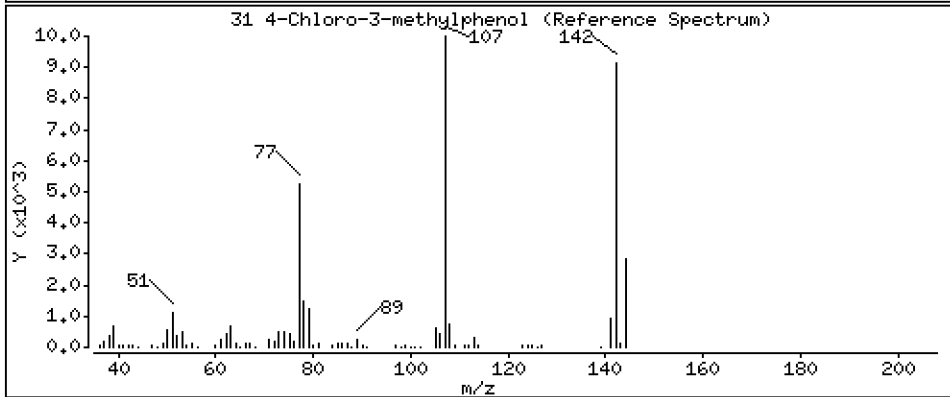
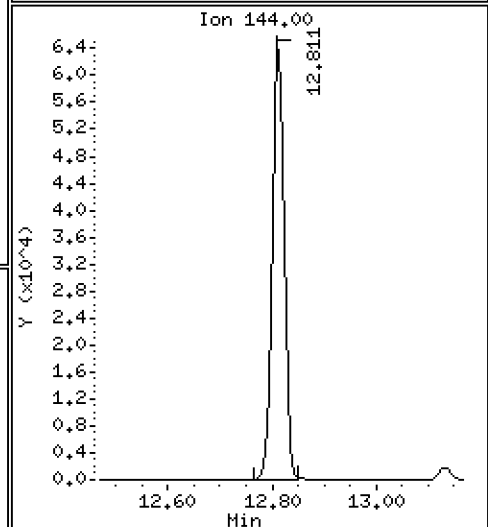
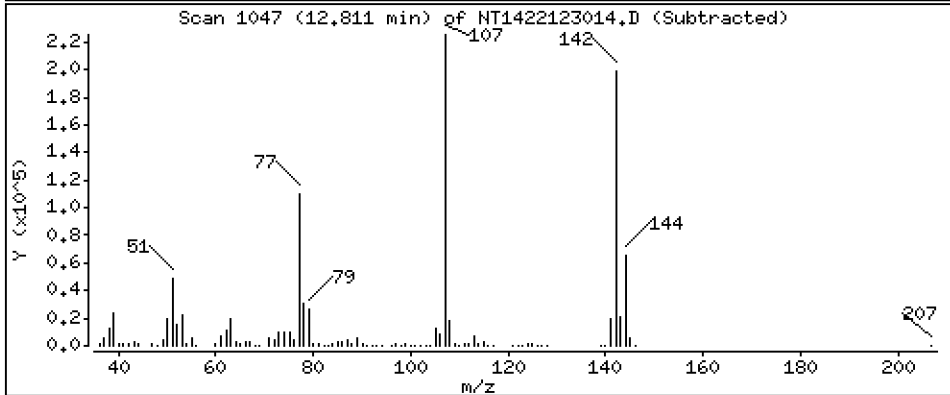
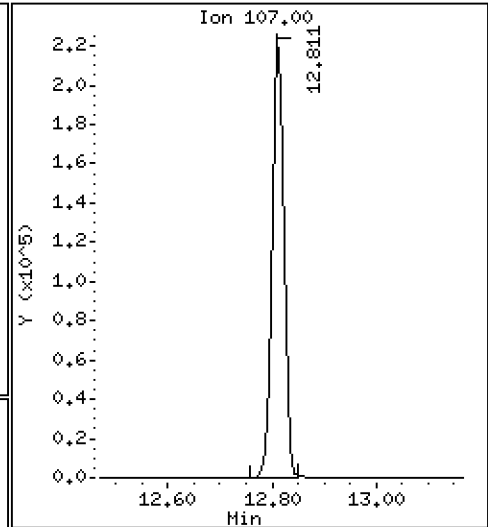
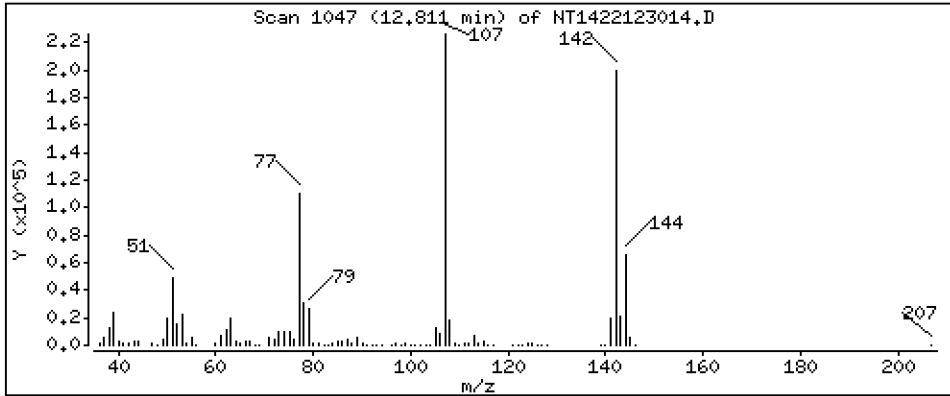
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 10.02 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

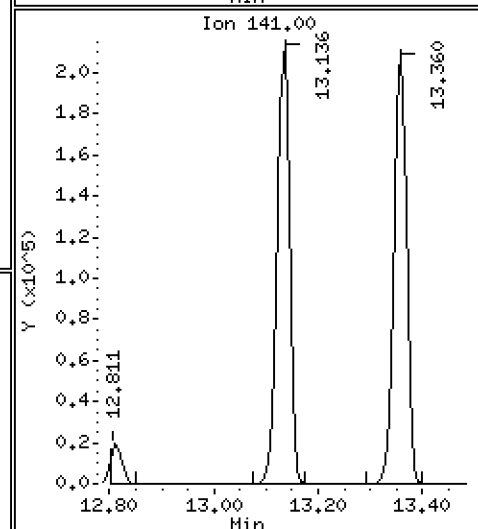
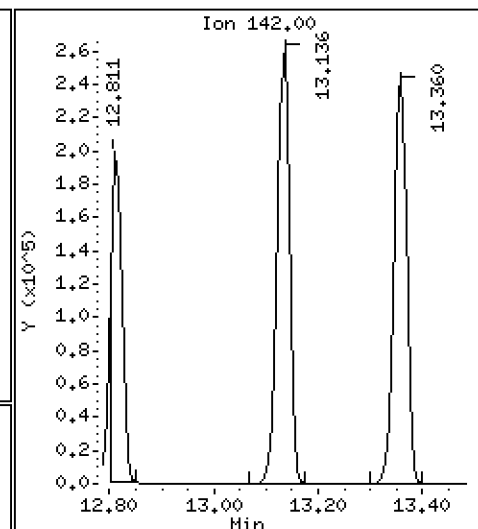
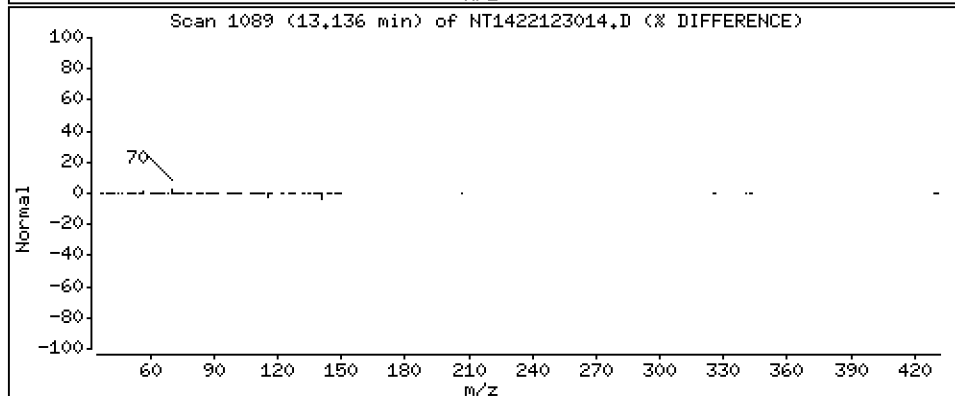
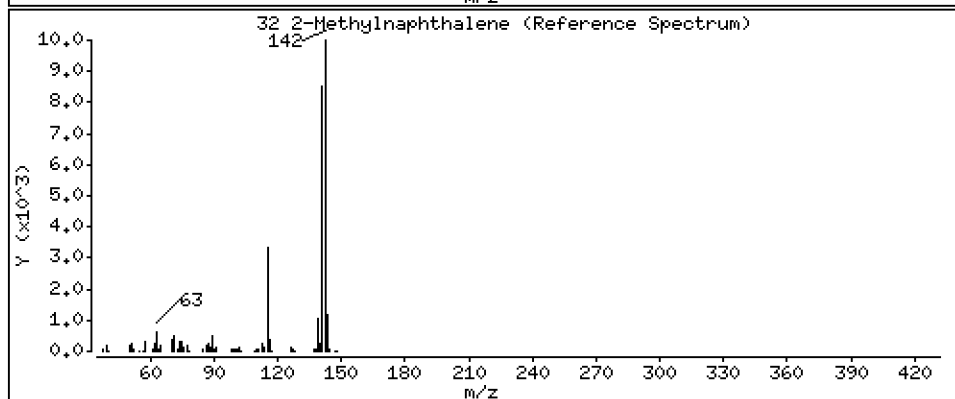
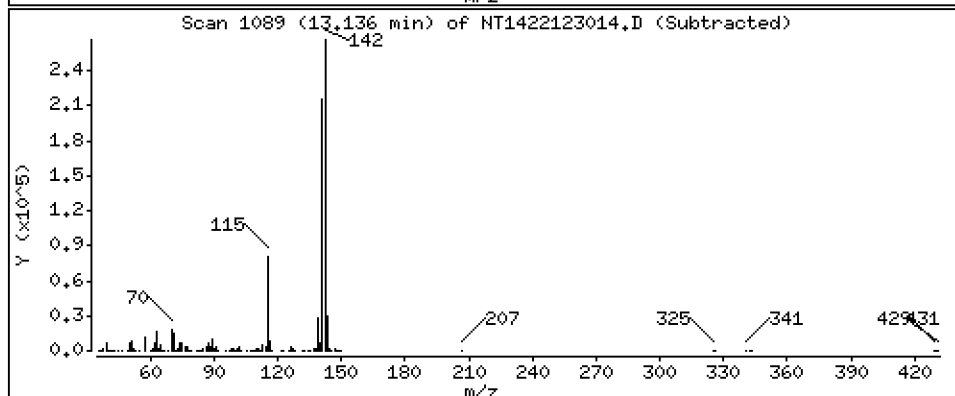
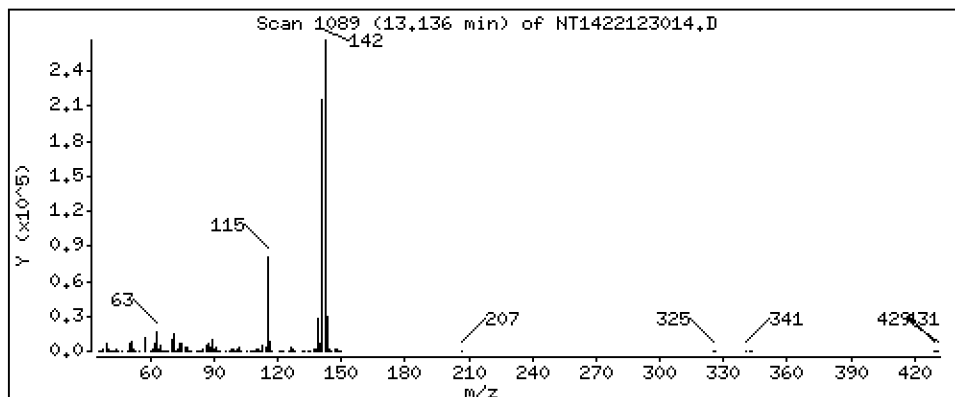
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,684 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

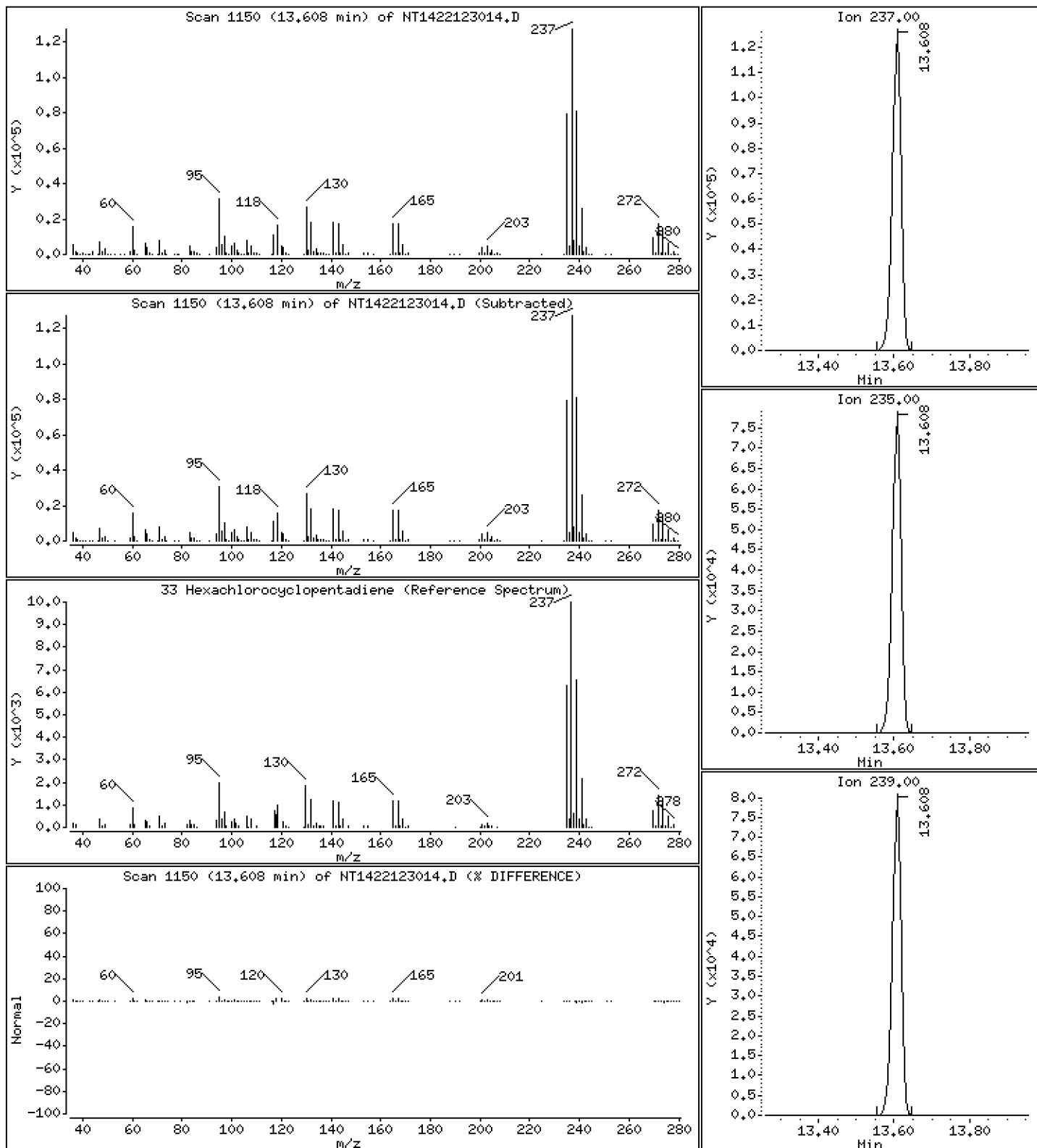
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 9,679 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

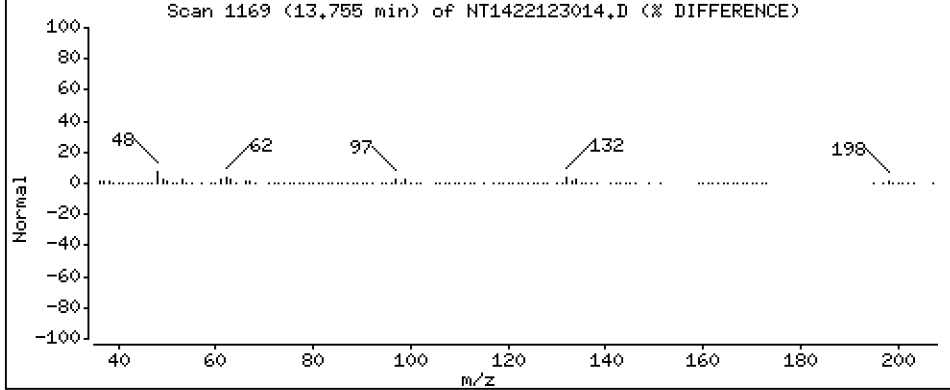
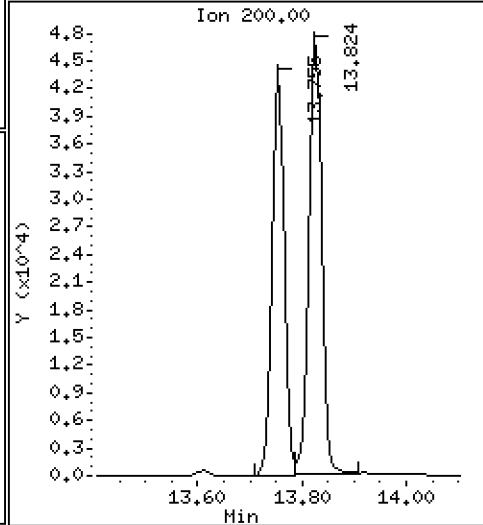
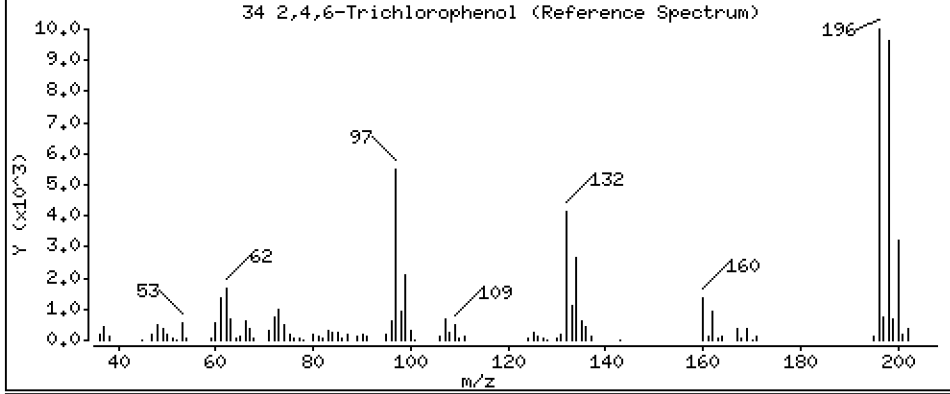
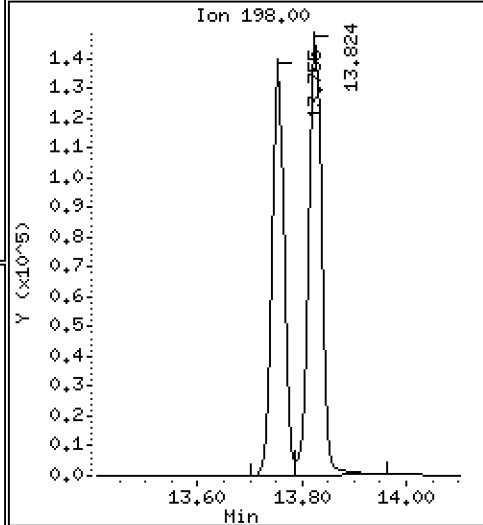
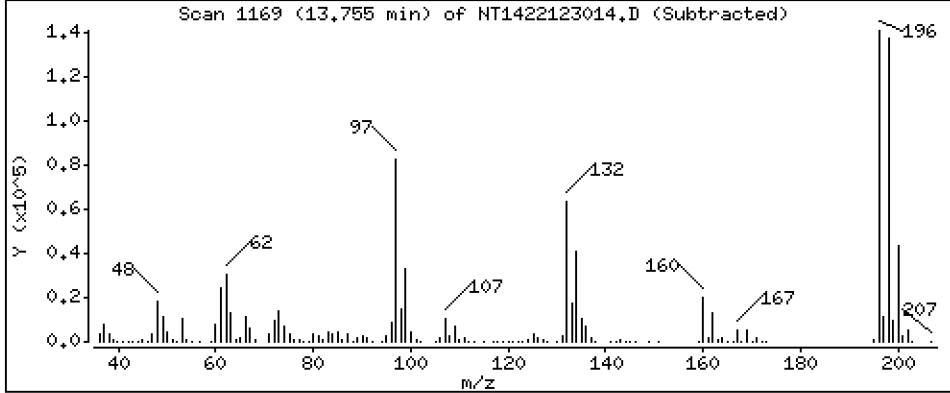
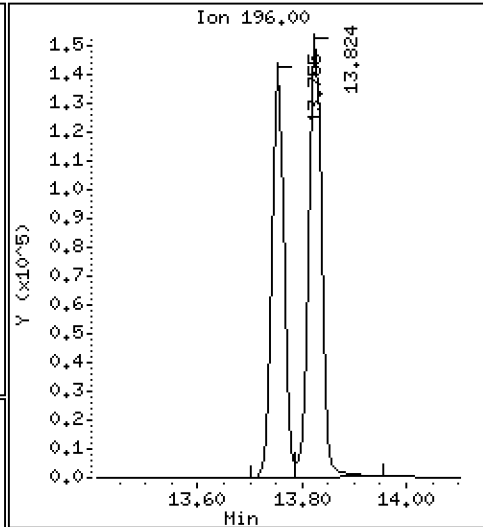
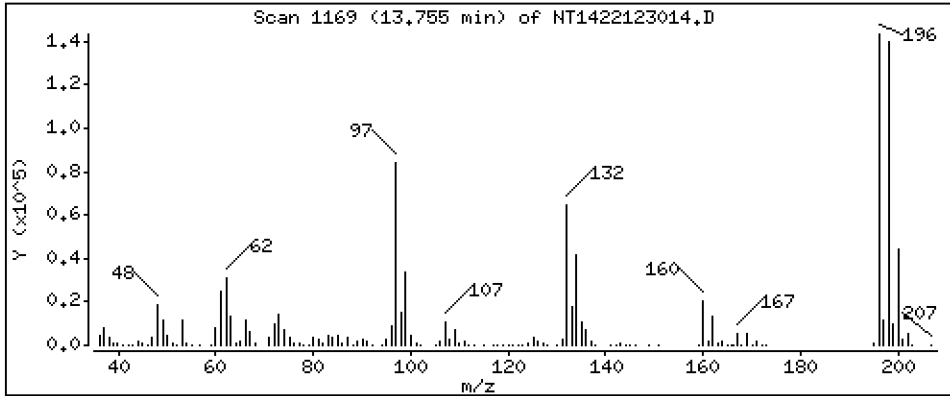
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 9,832 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

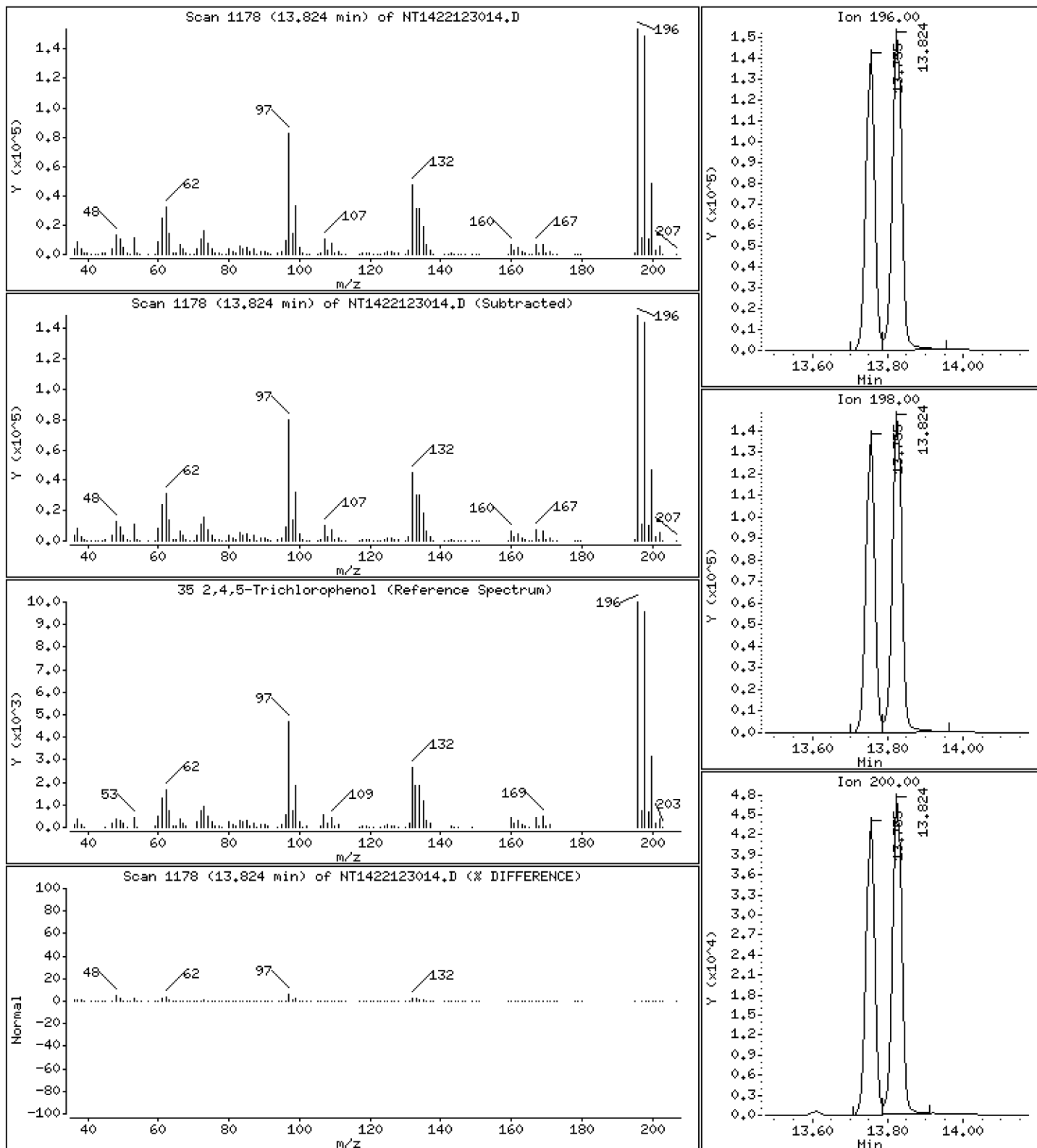
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 9,857 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

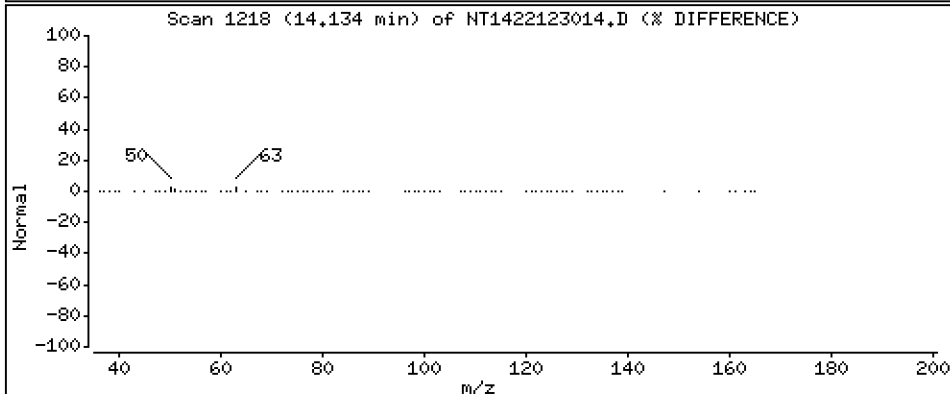
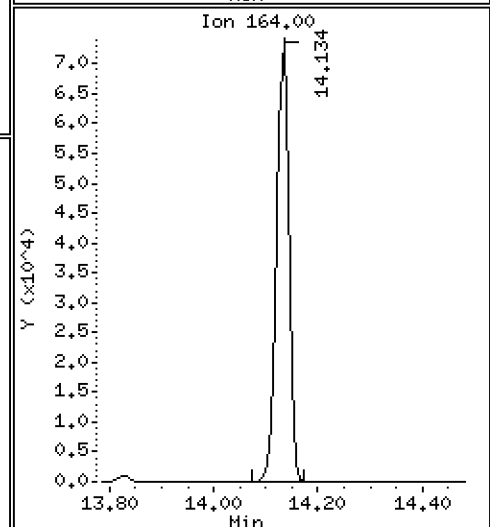
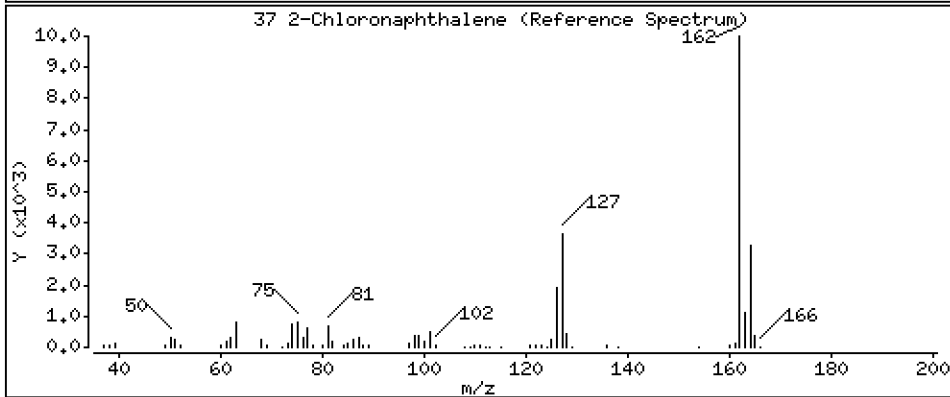
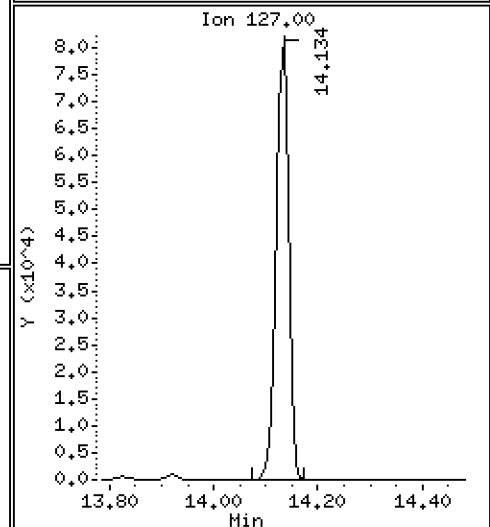
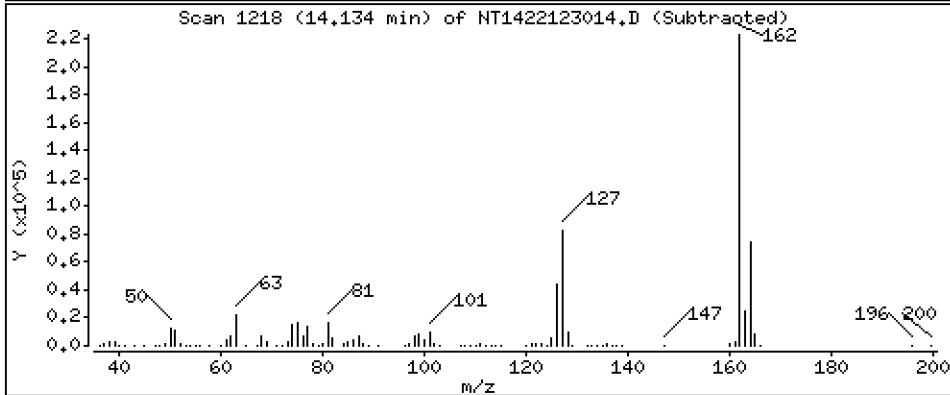
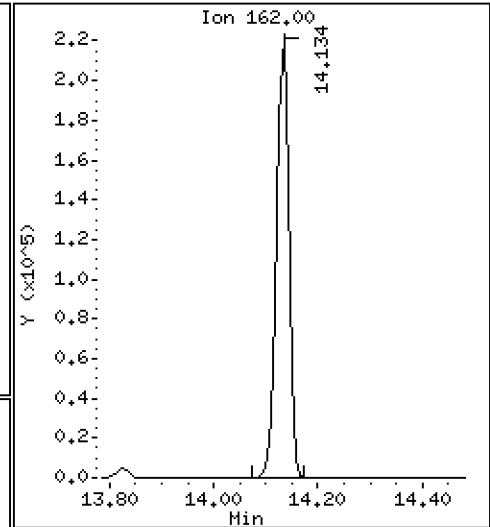
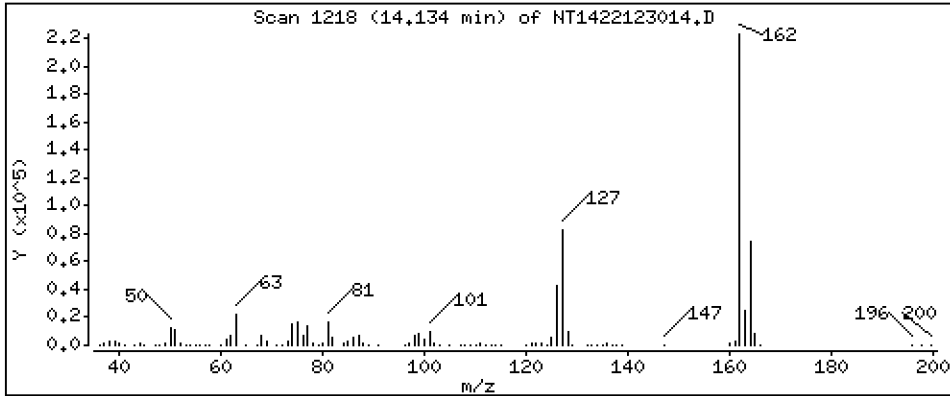
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,627 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

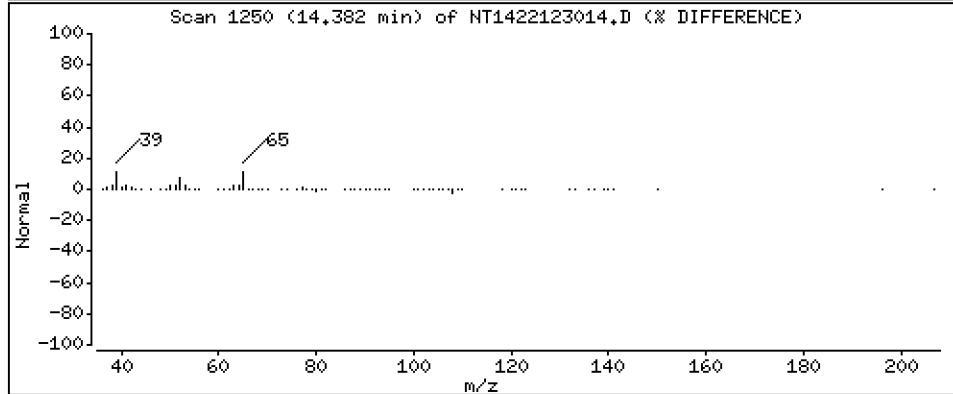
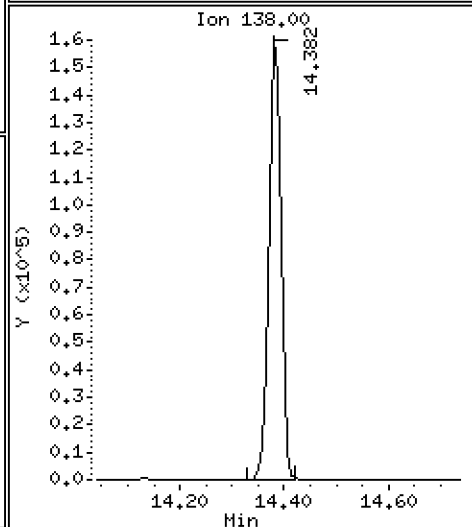
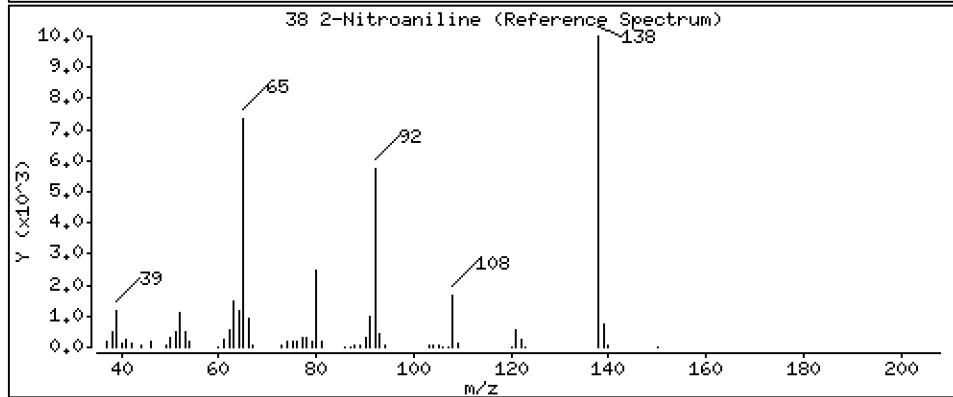
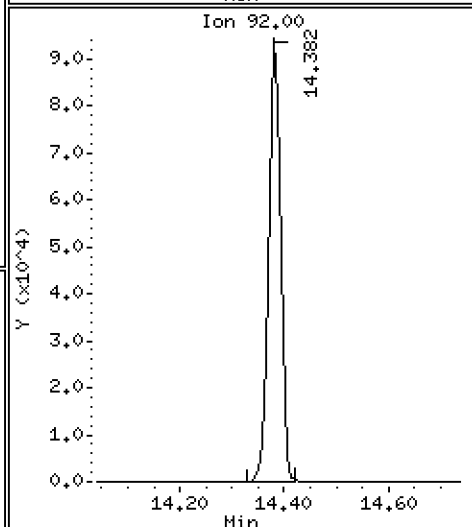
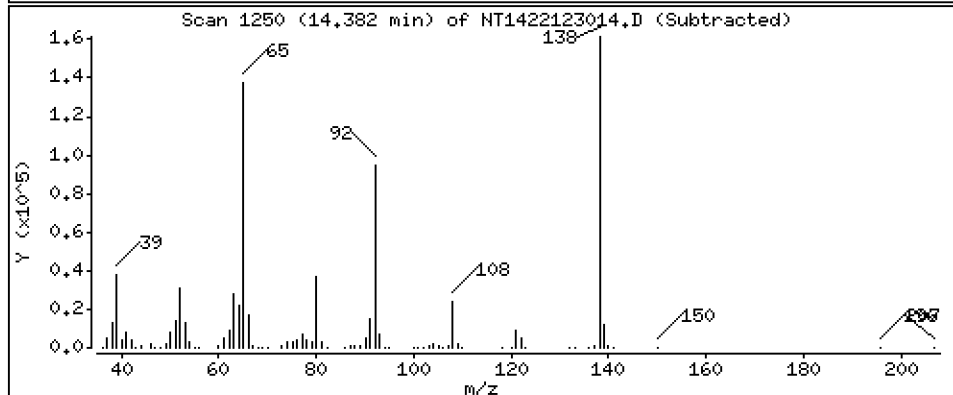
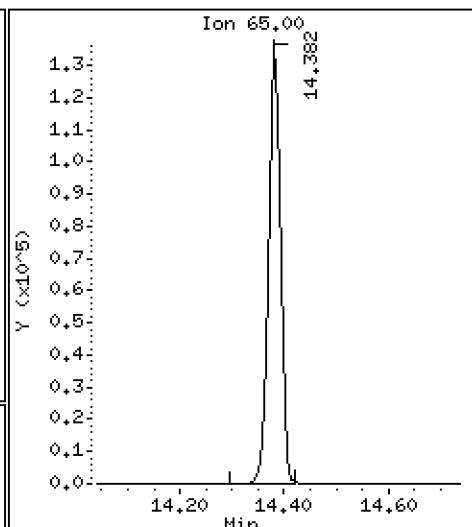
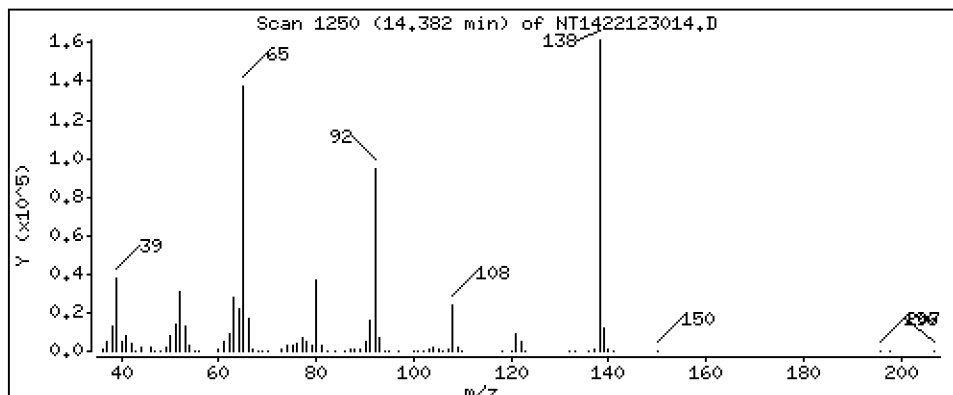
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 10,67 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

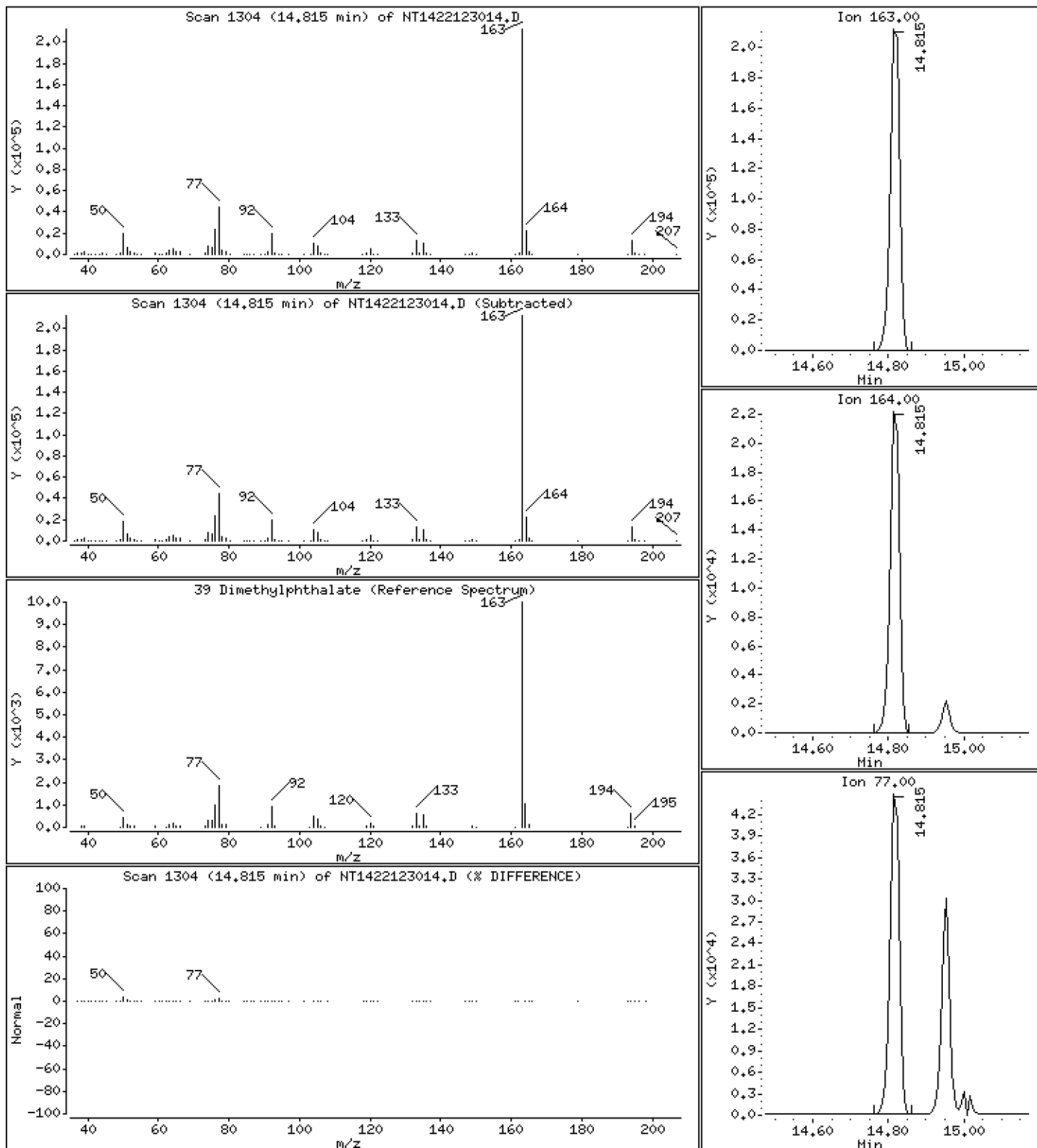
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,718 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

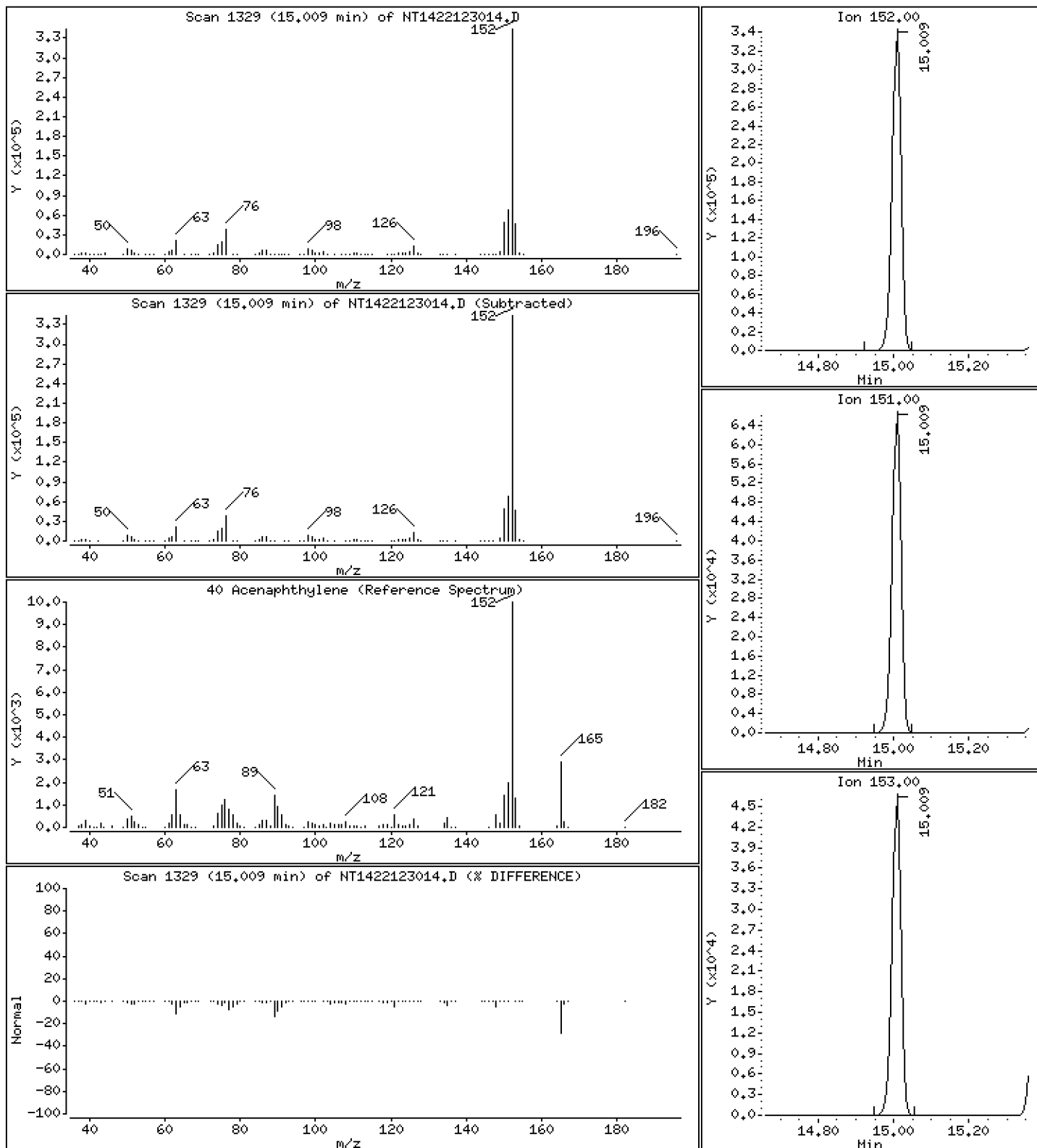
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 4,713 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

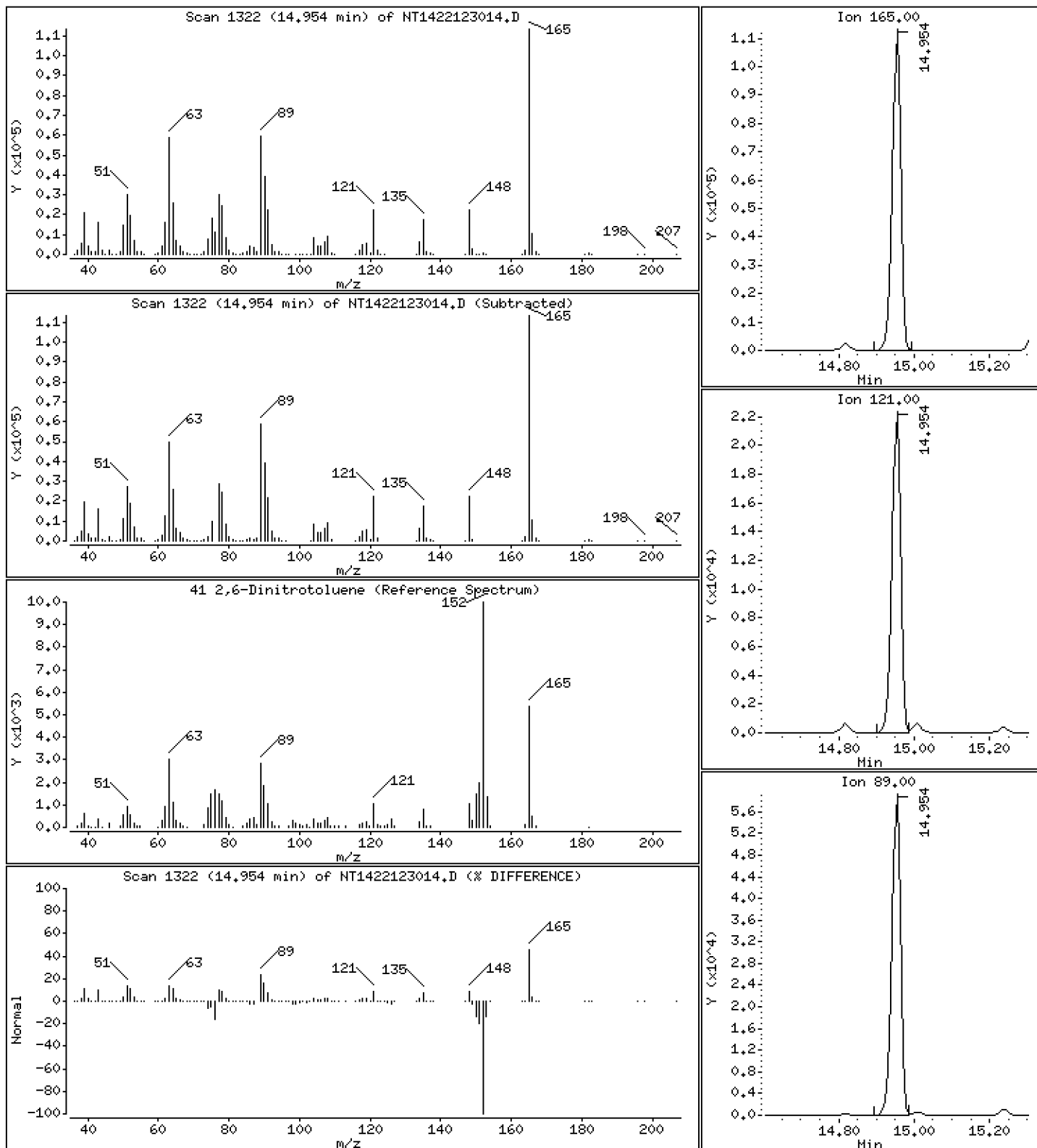
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 9,927 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

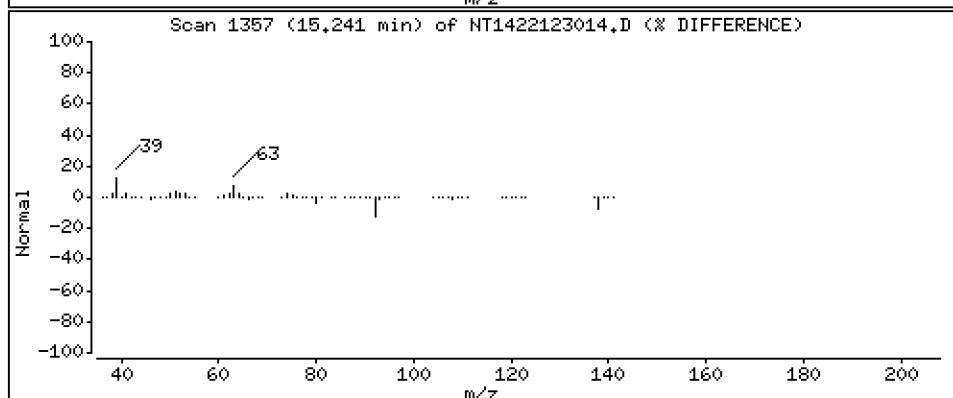
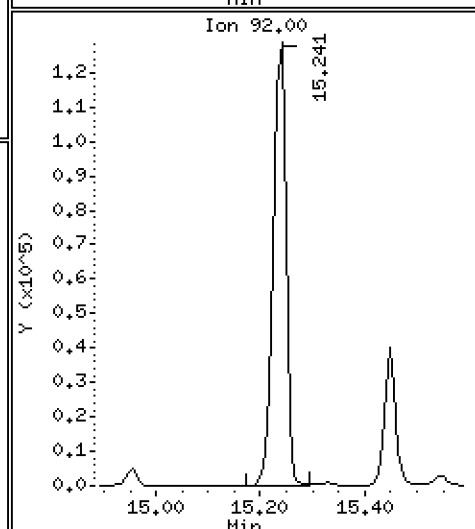
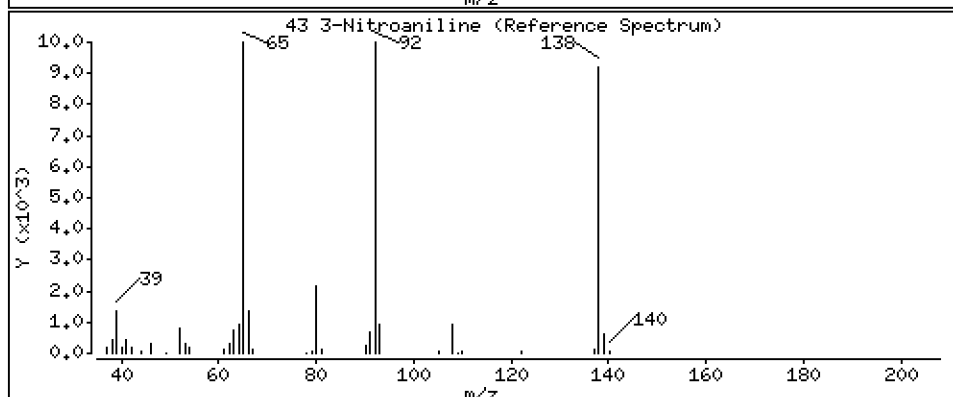
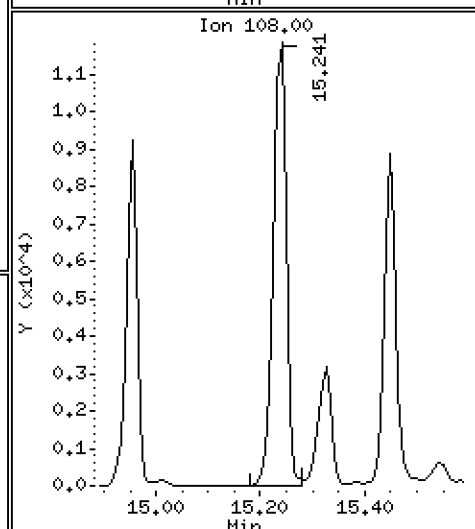
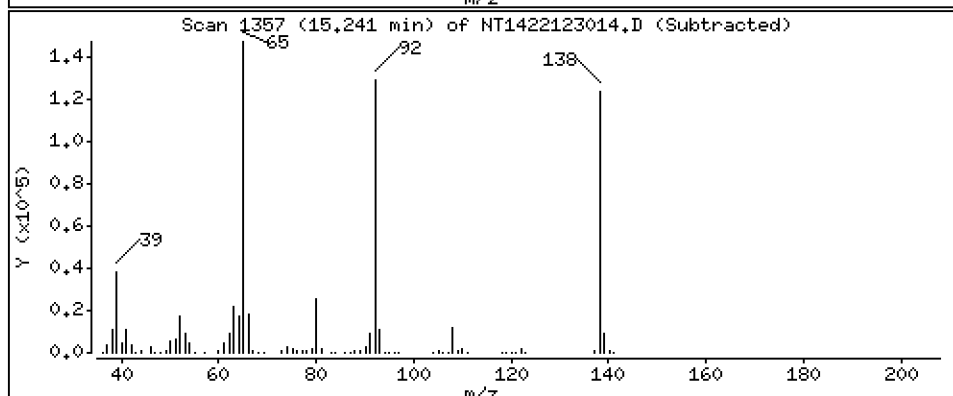
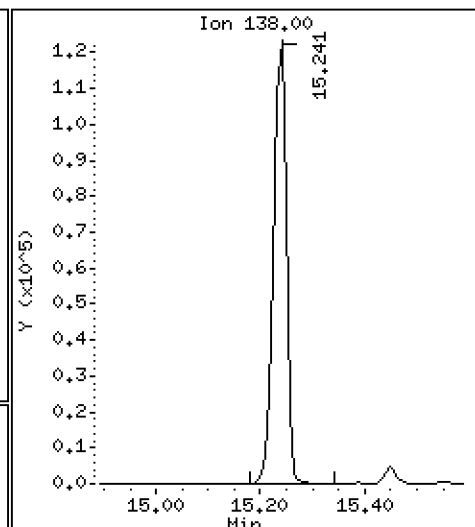
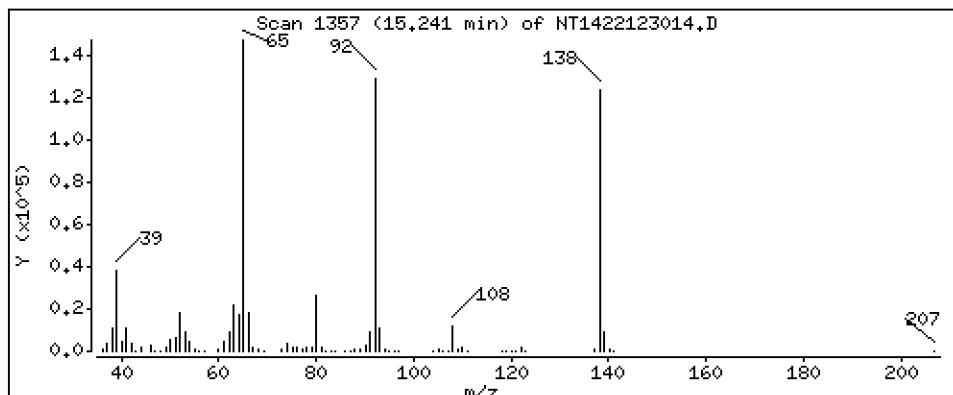
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 9,918 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

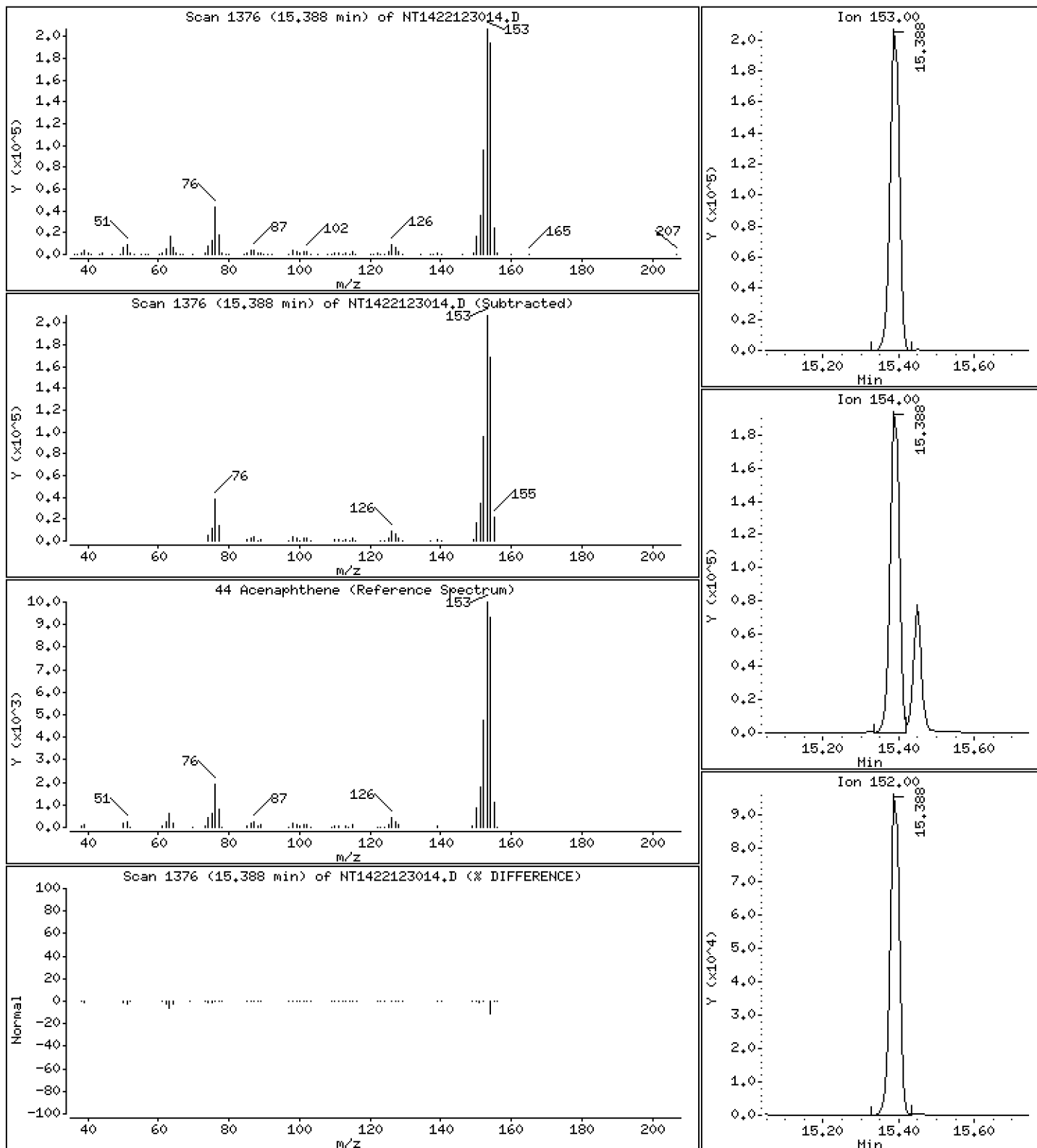
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,613 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

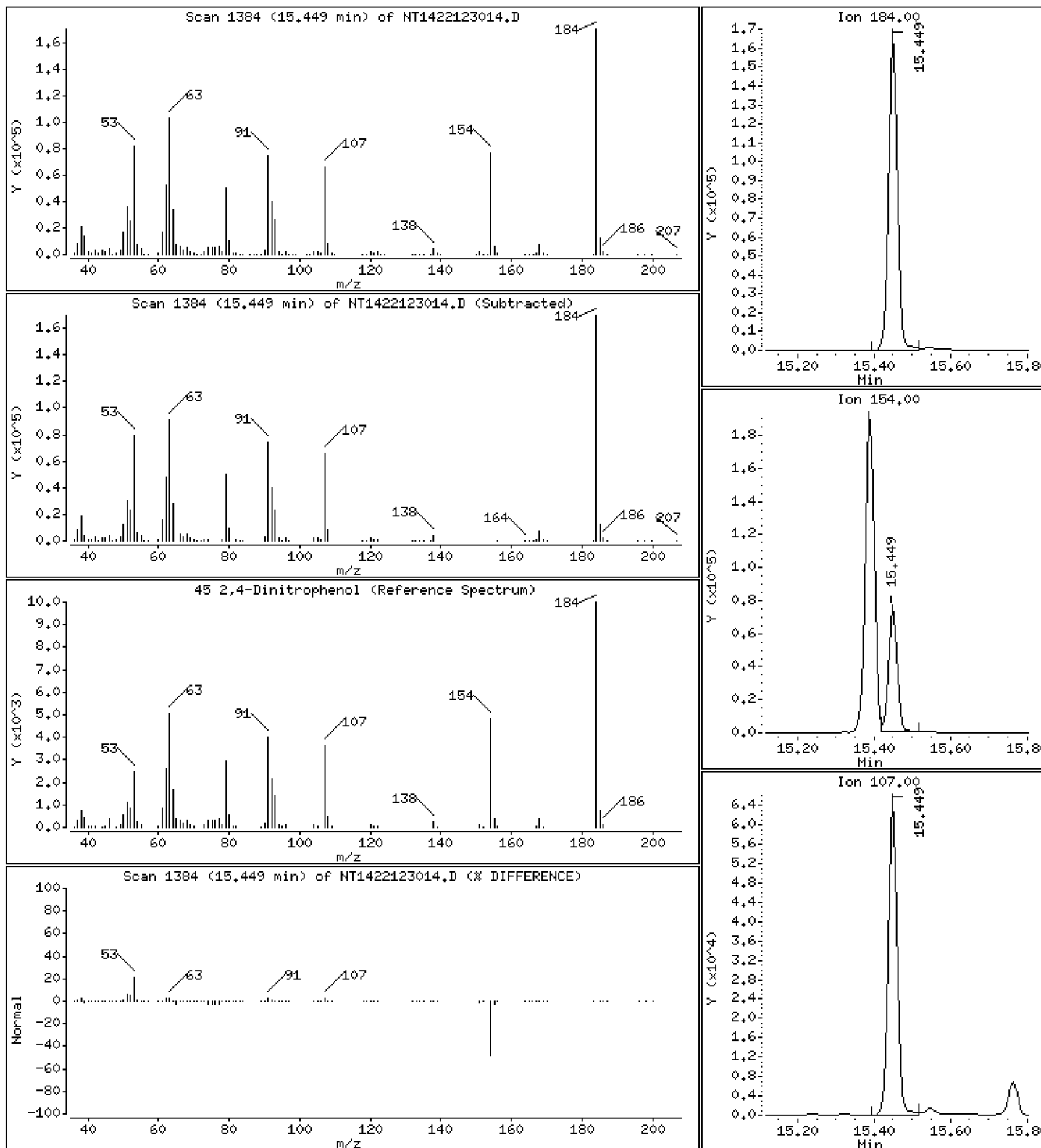
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 17,62 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

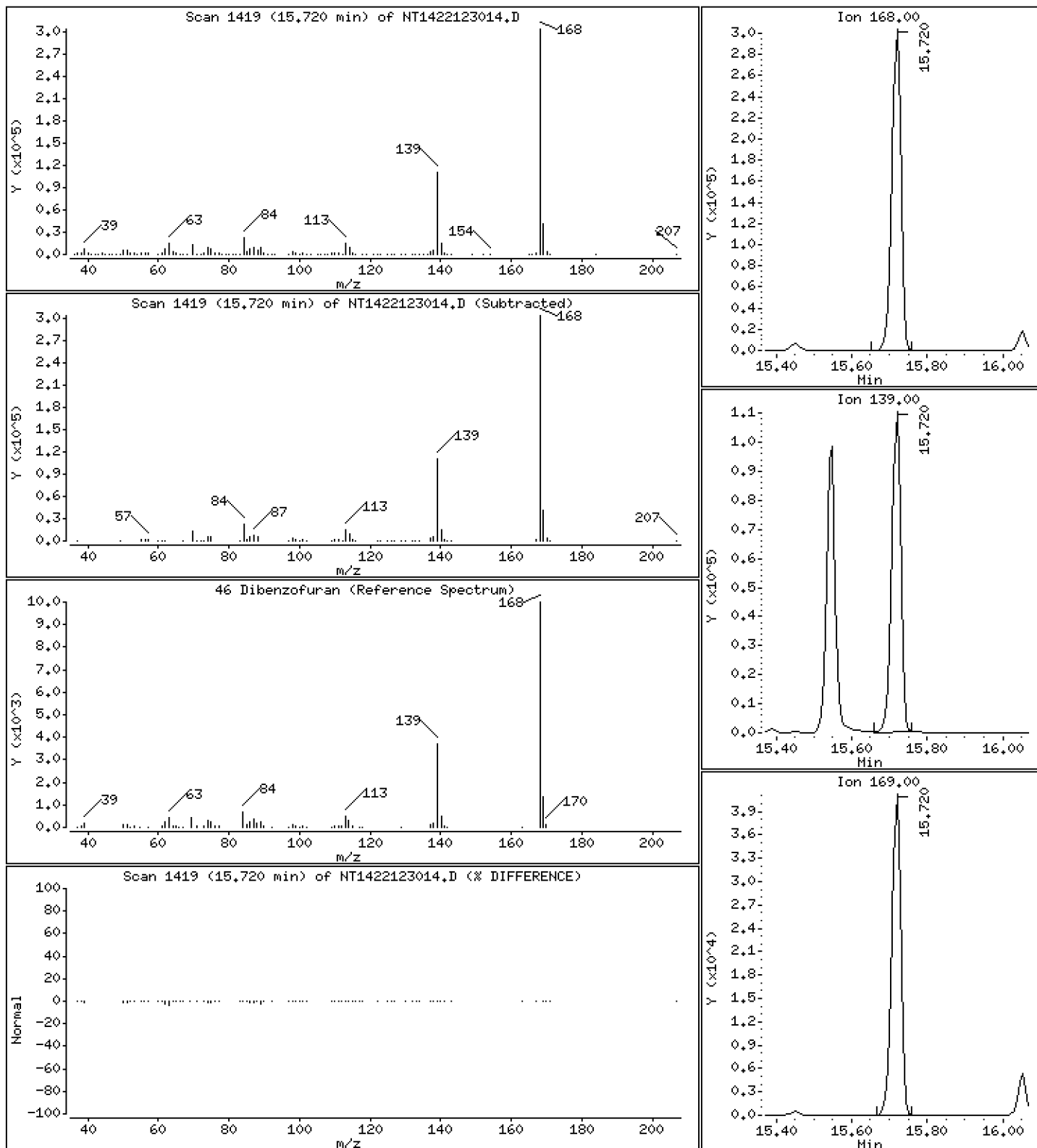
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,547 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

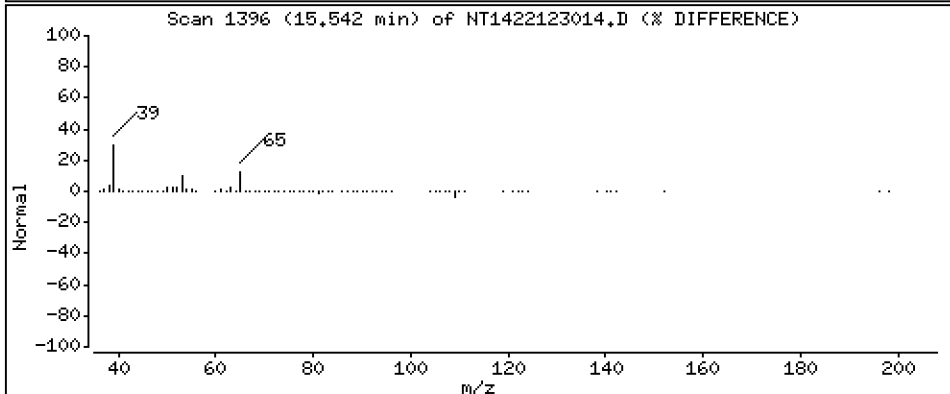
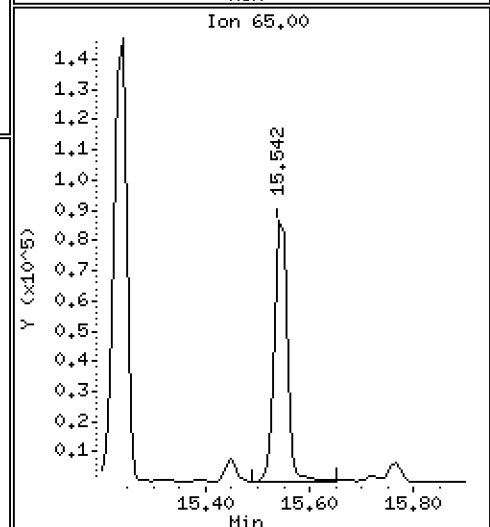
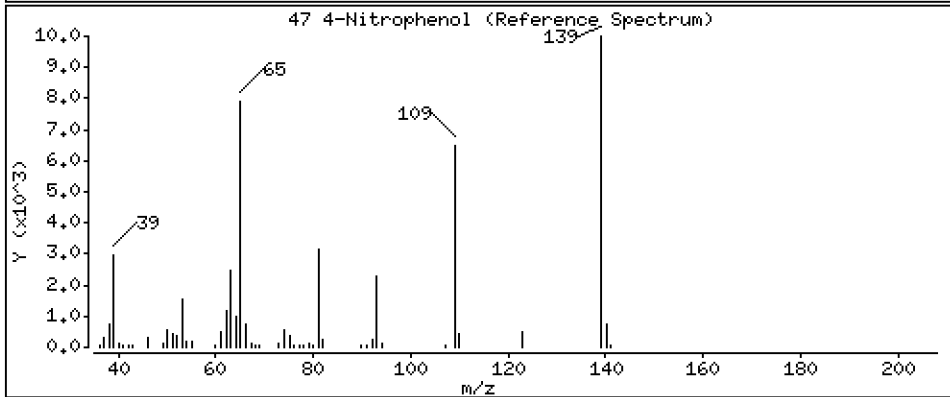
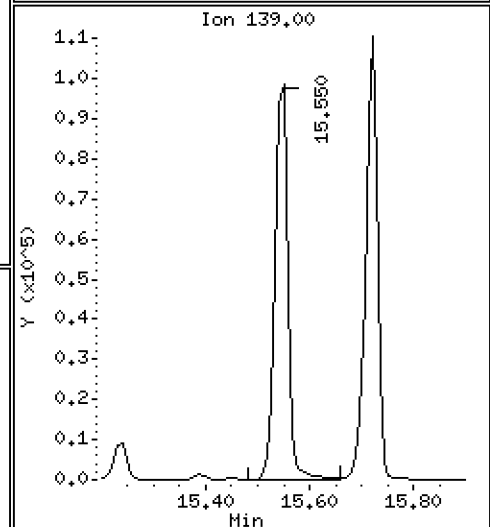
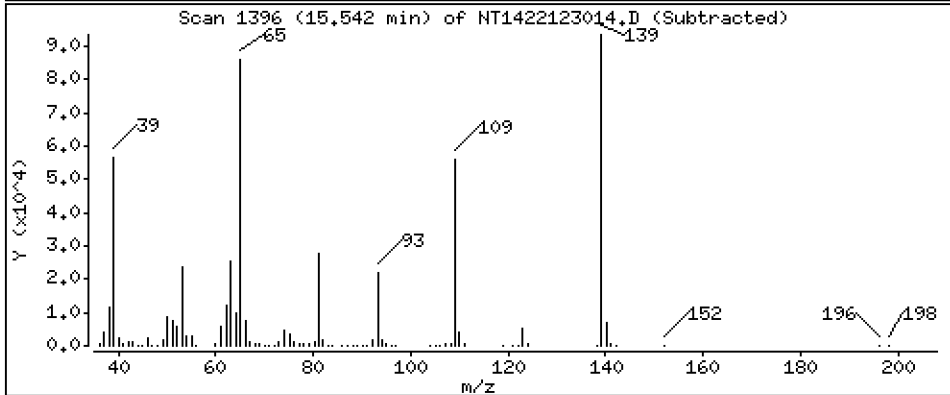
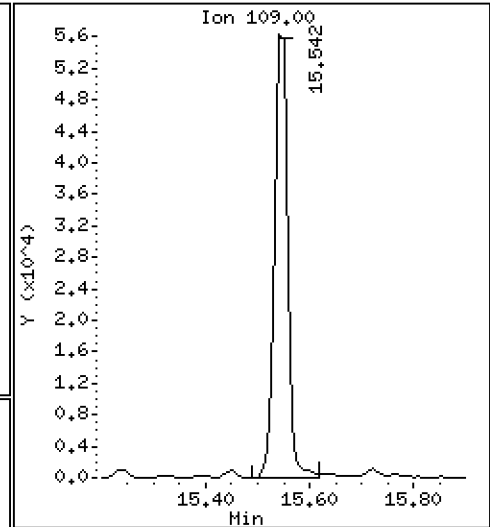
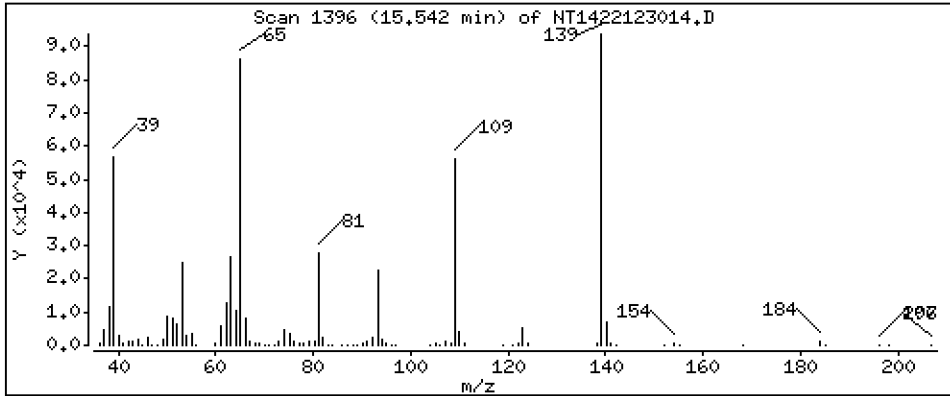
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 9,441 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

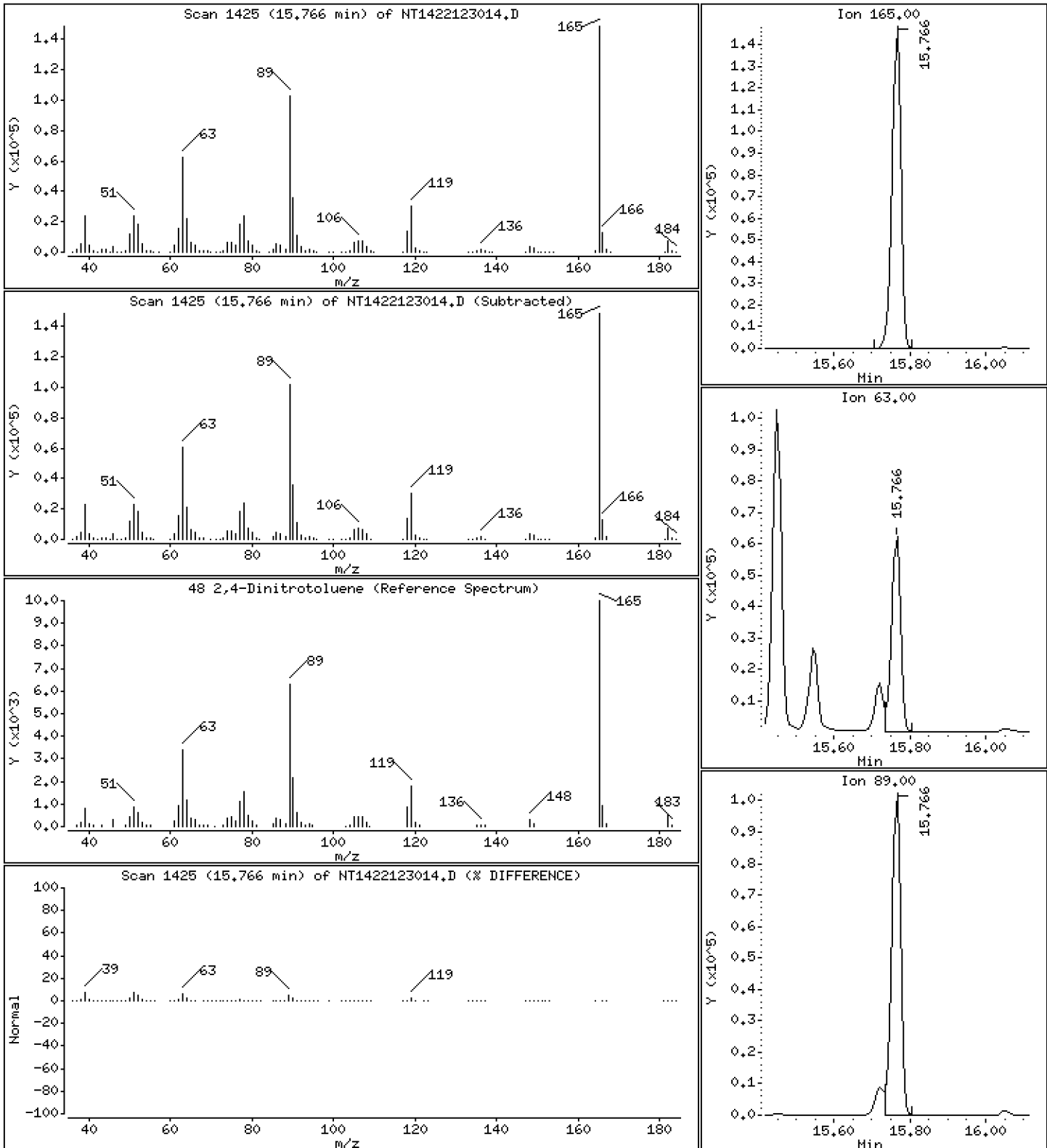
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 9,887 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

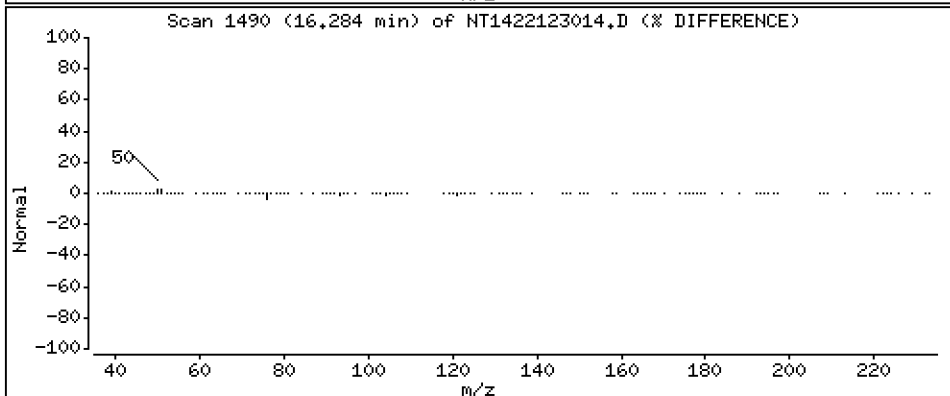
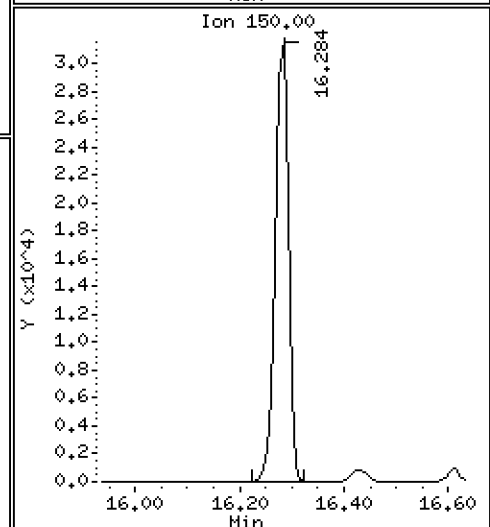
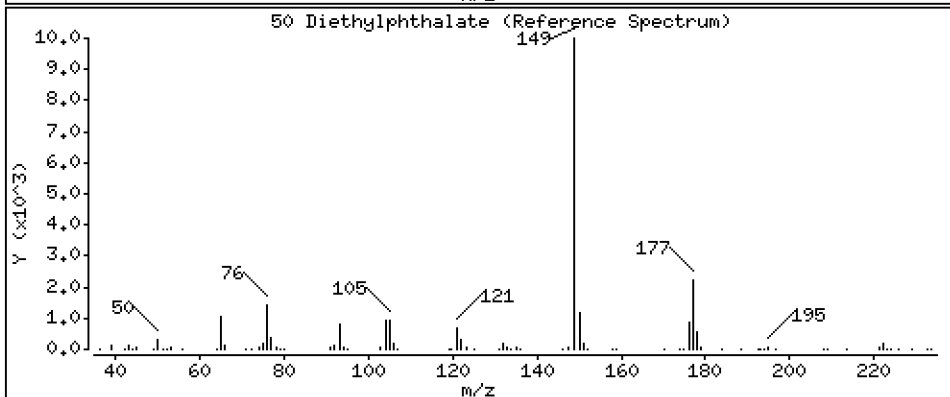
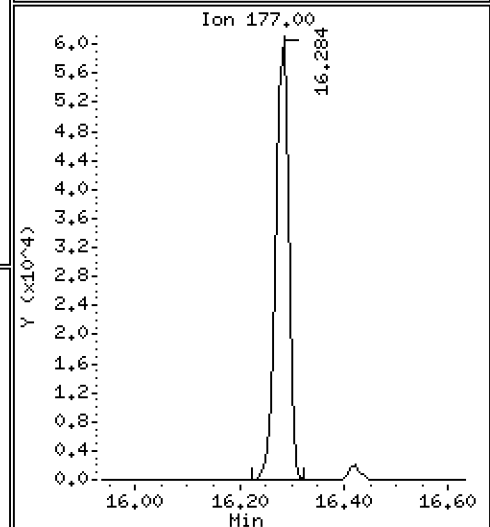
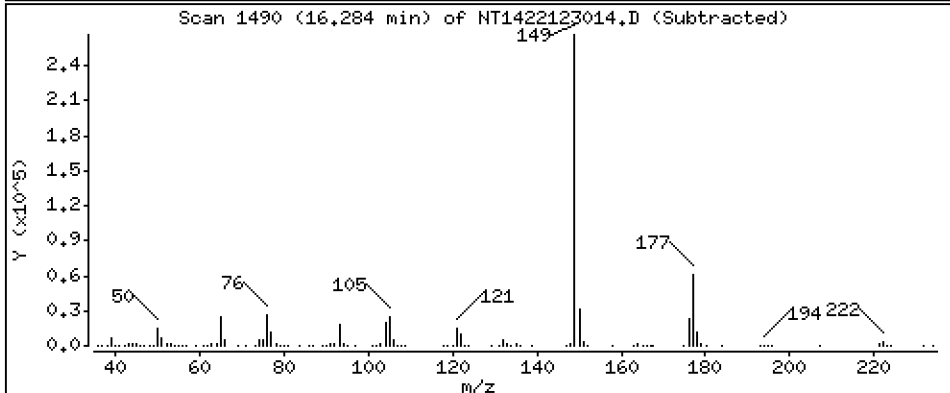
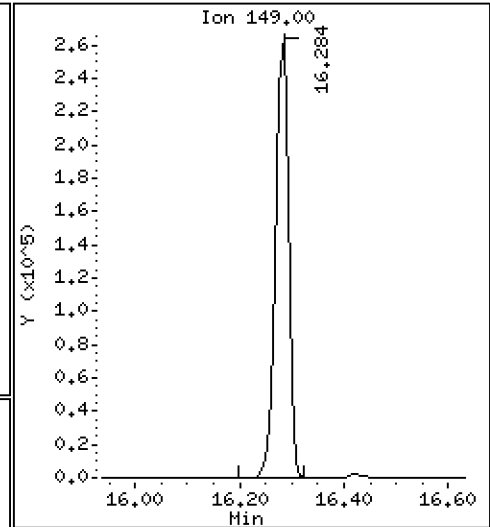
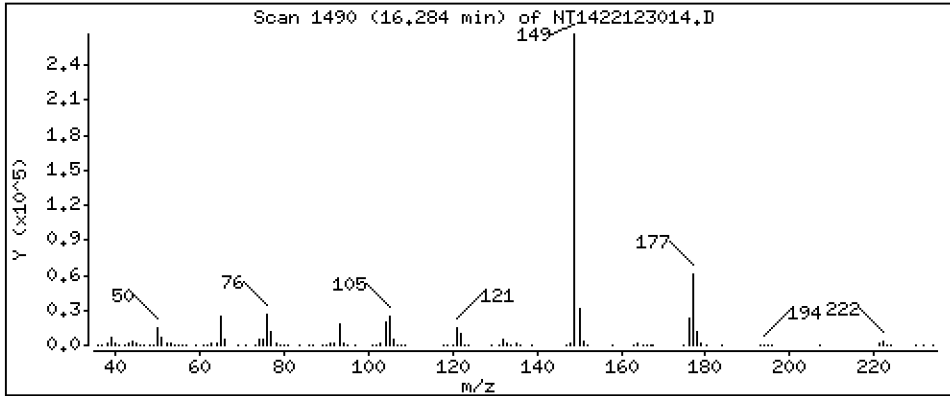
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 4,968 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

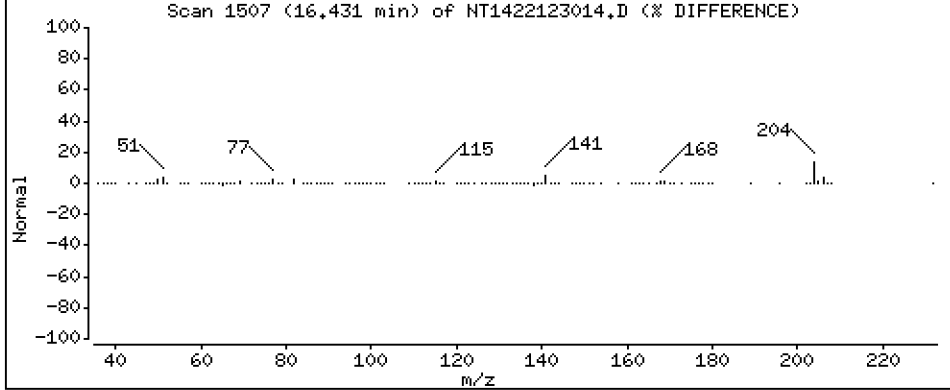
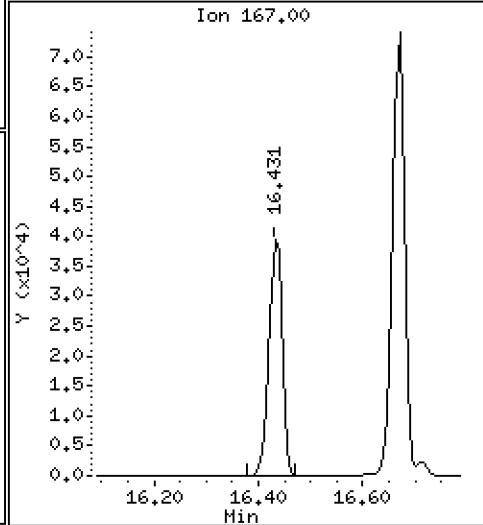
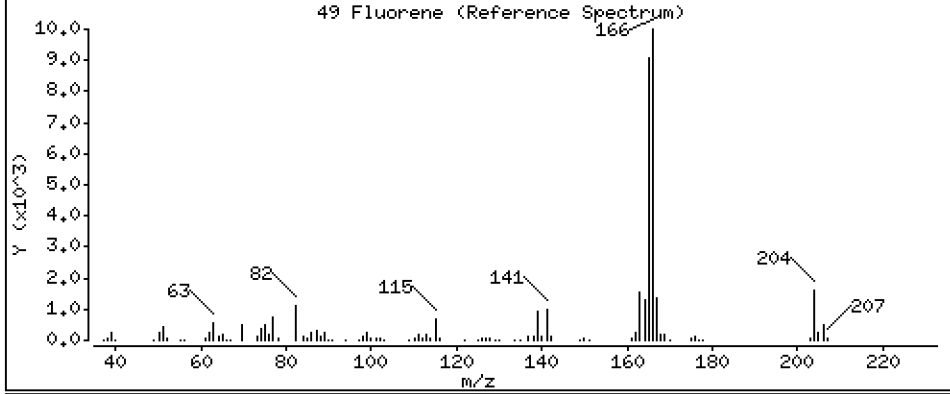
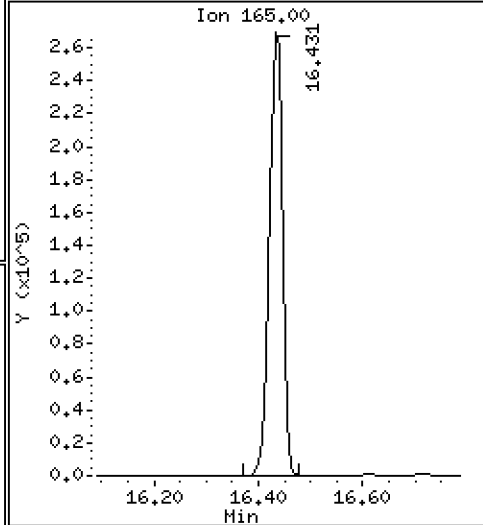
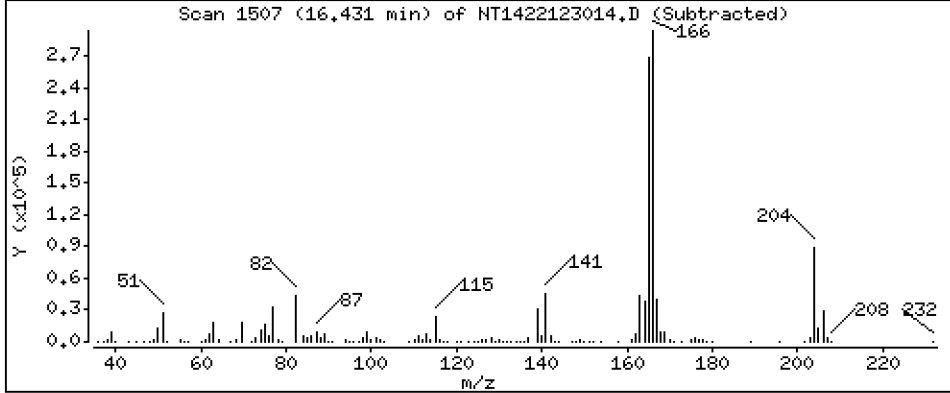
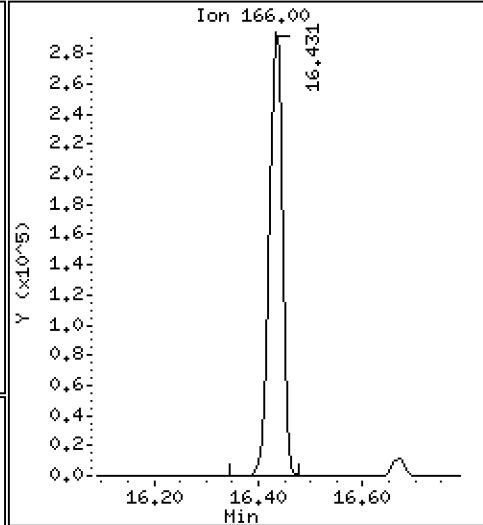
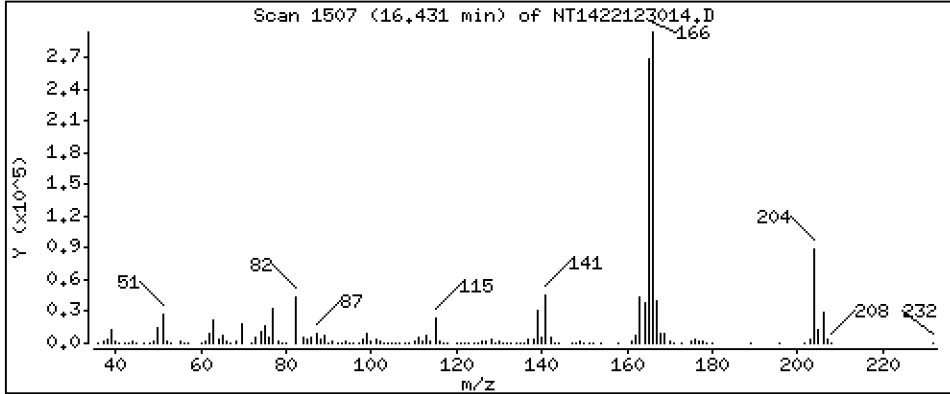
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 4,940 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

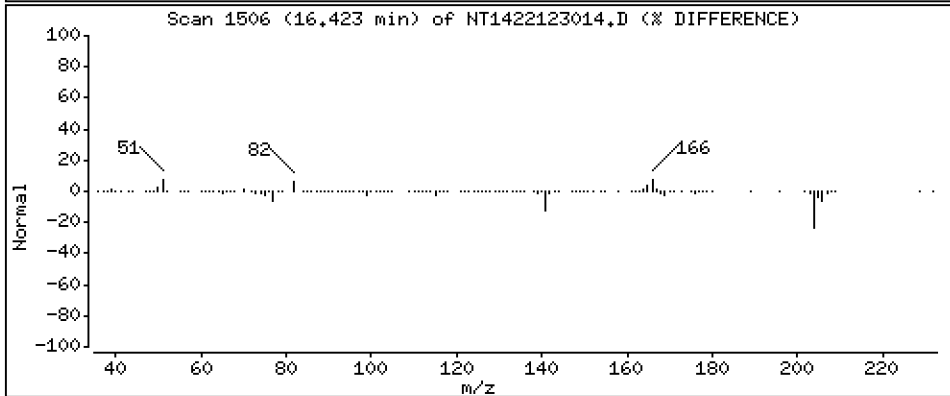
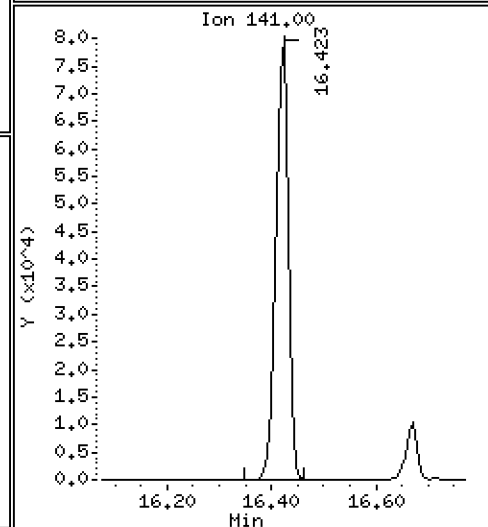
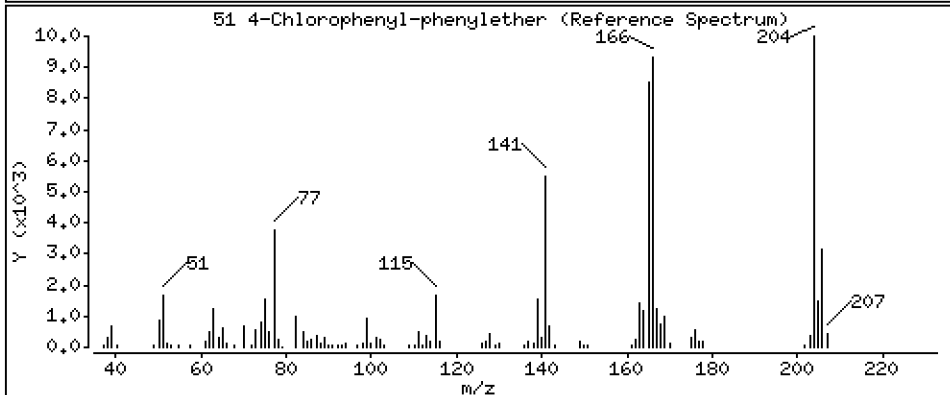
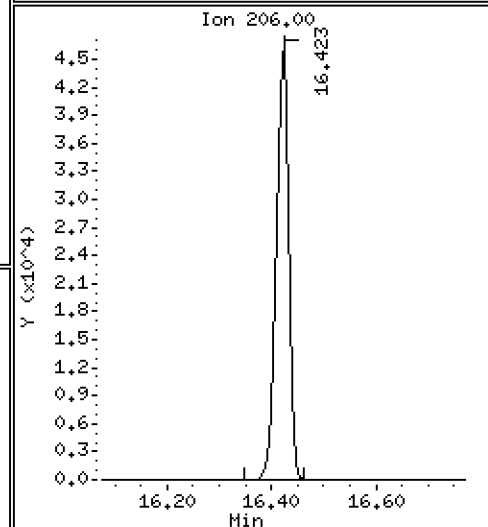
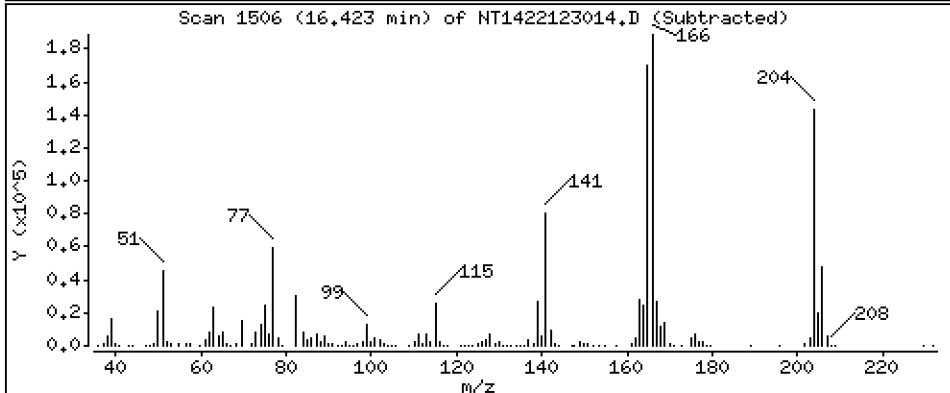
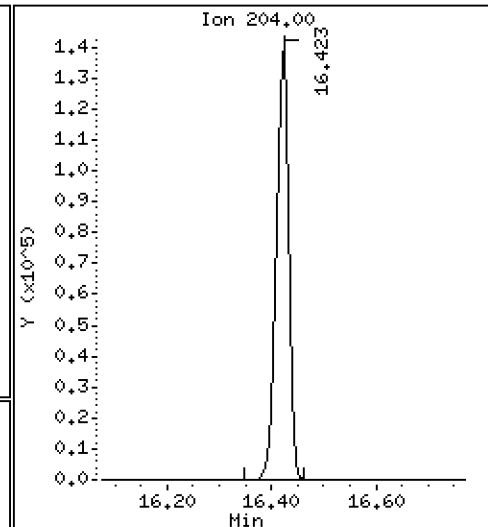
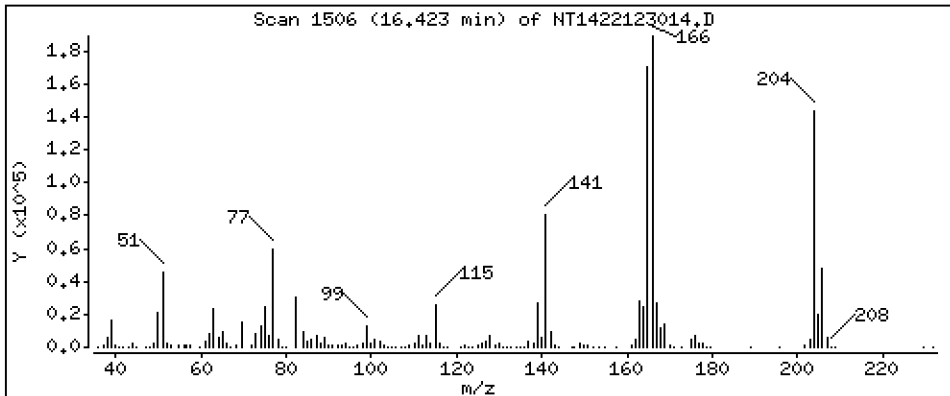
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,666 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

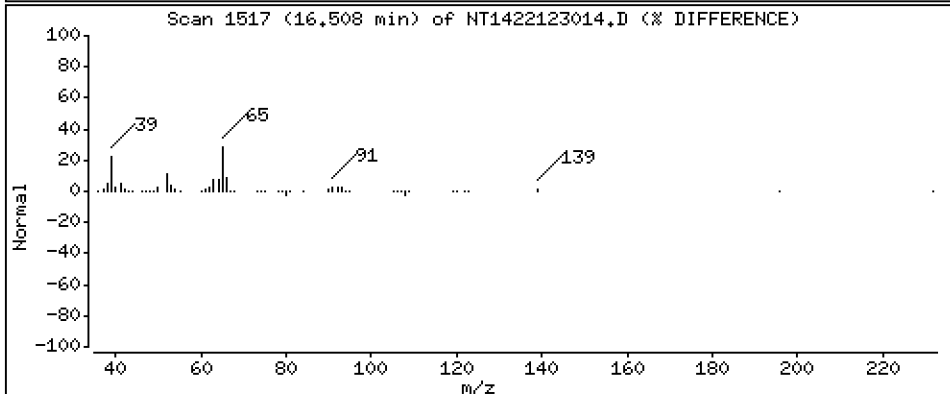
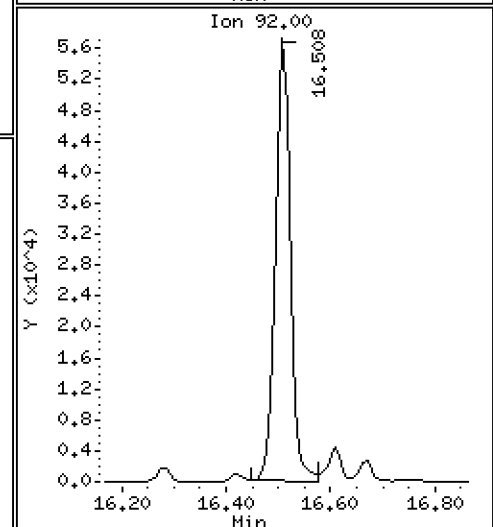
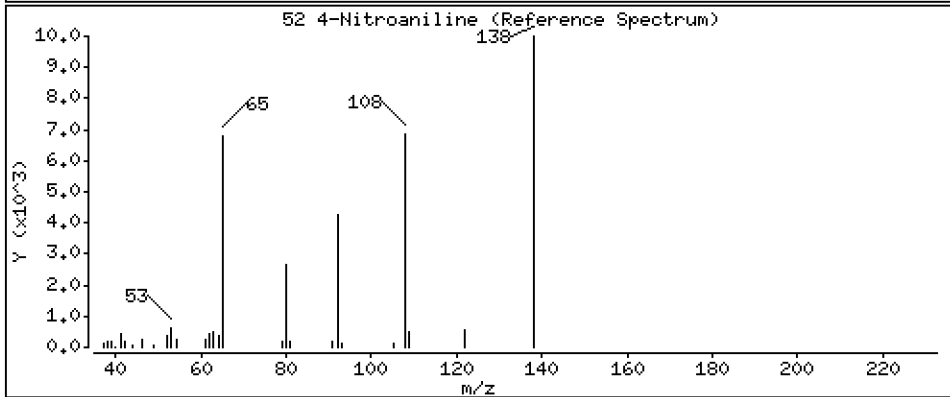
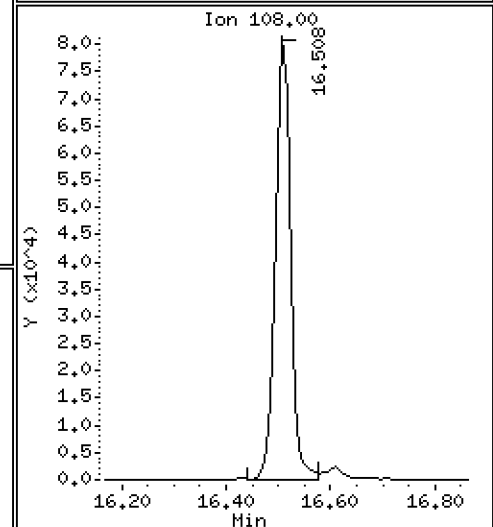
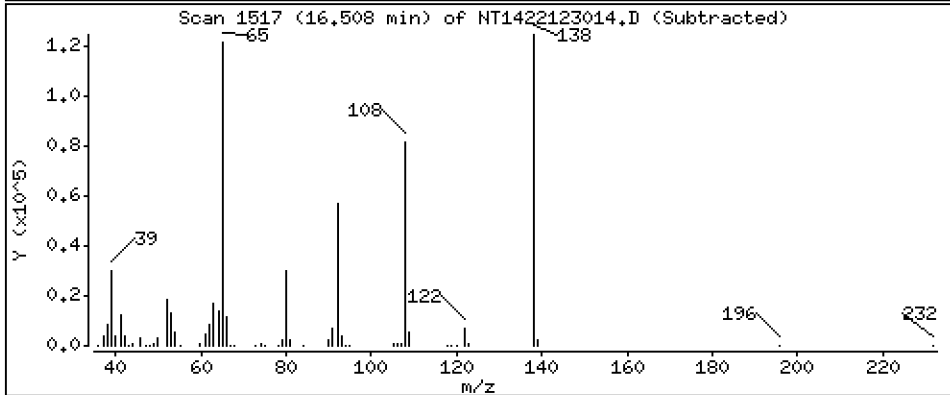
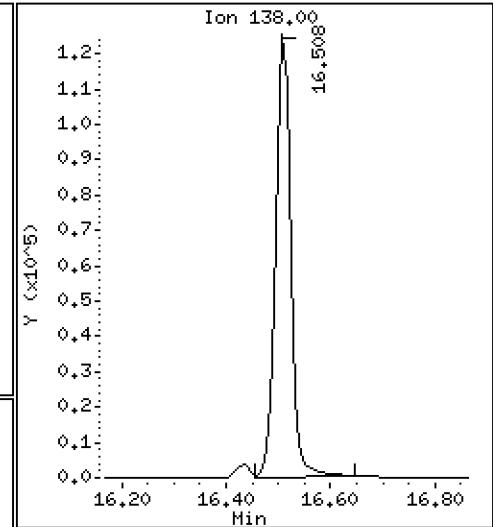
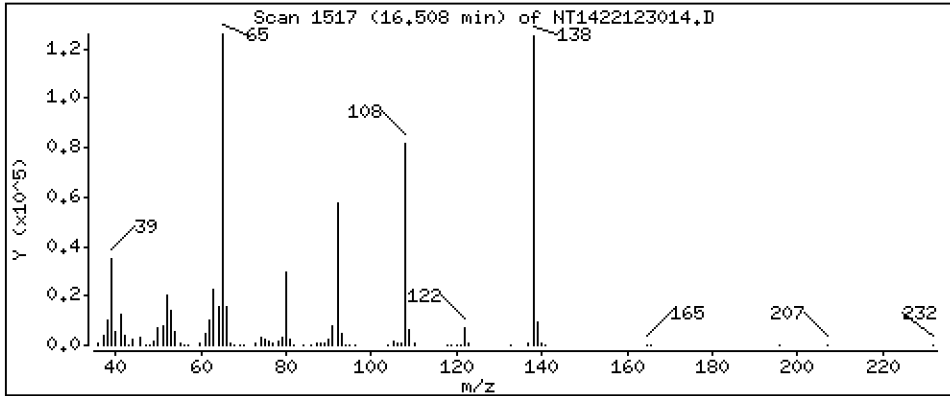
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 9,616 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

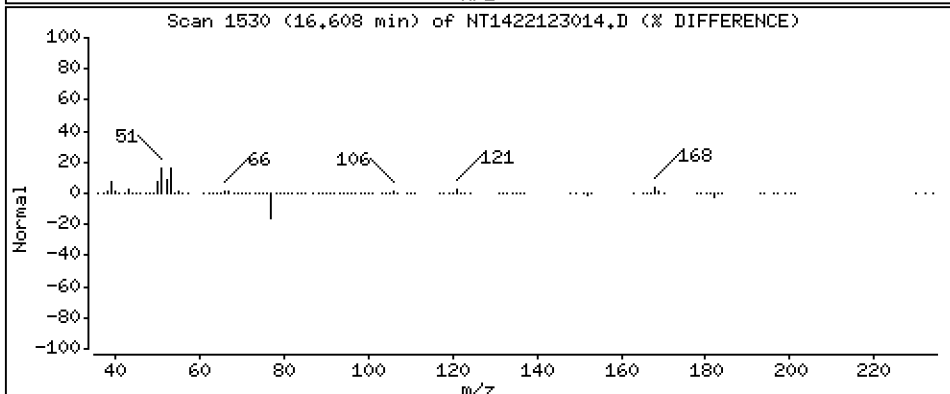
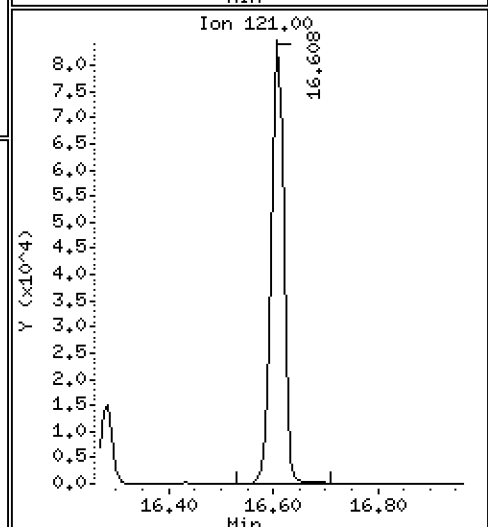
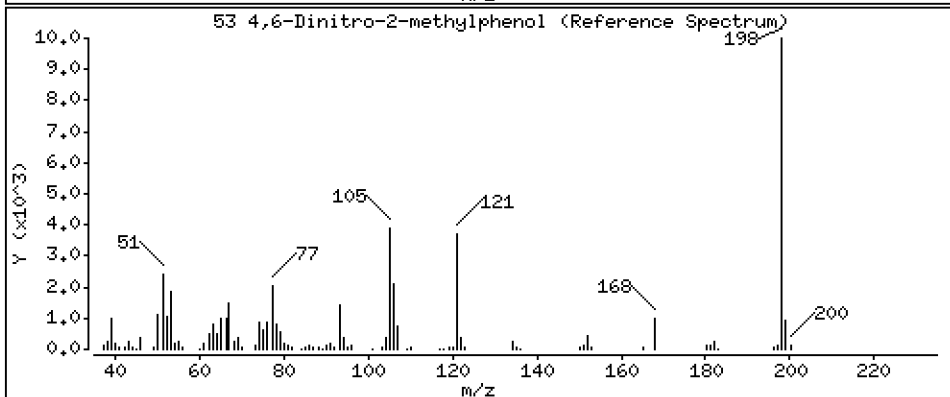
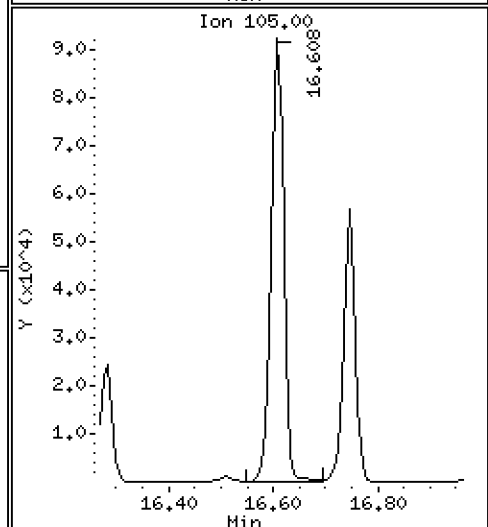
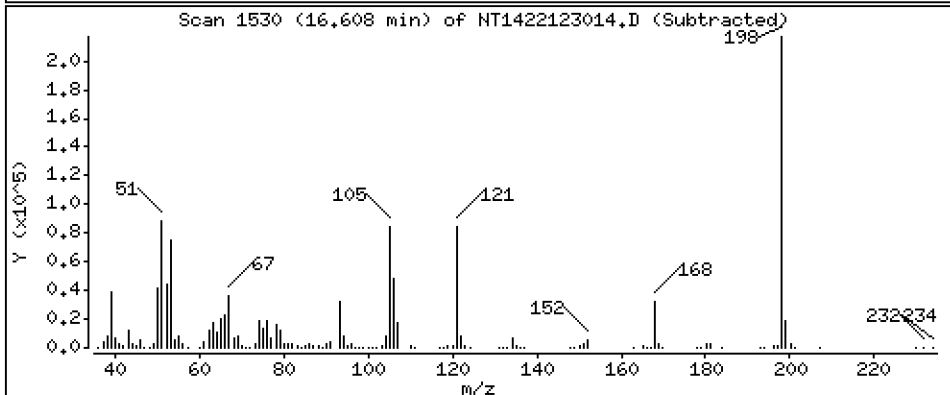
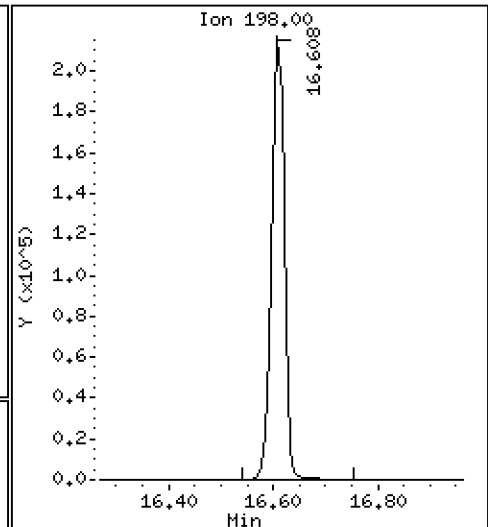
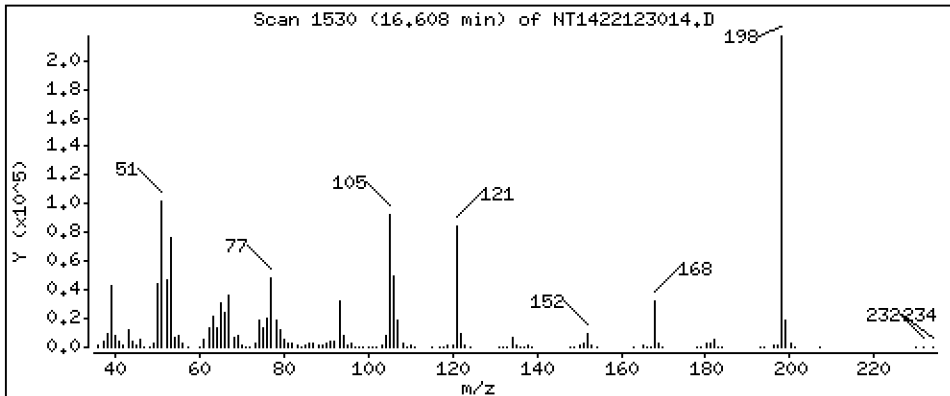
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 19,19 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

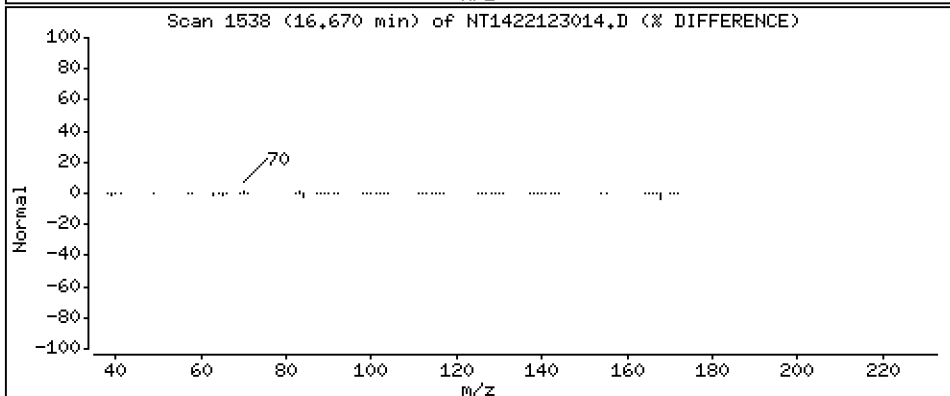
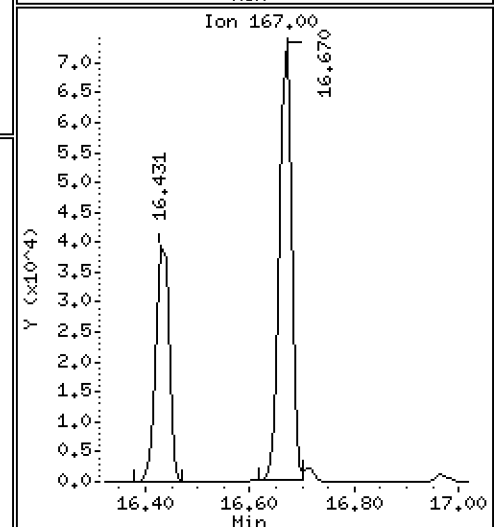
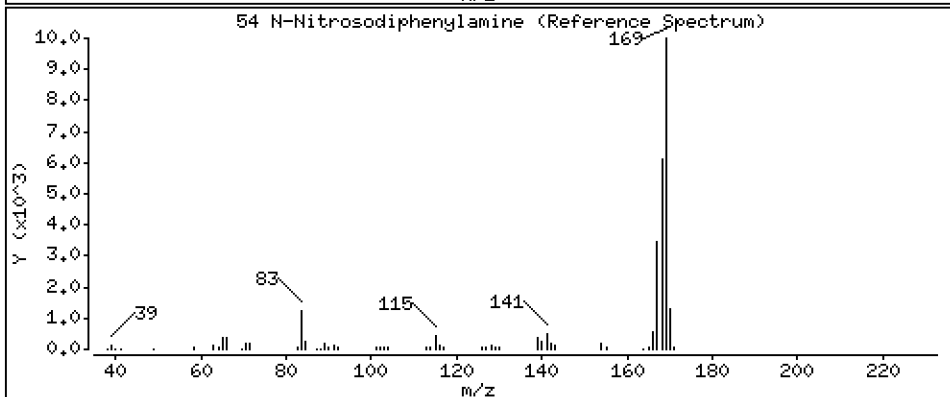
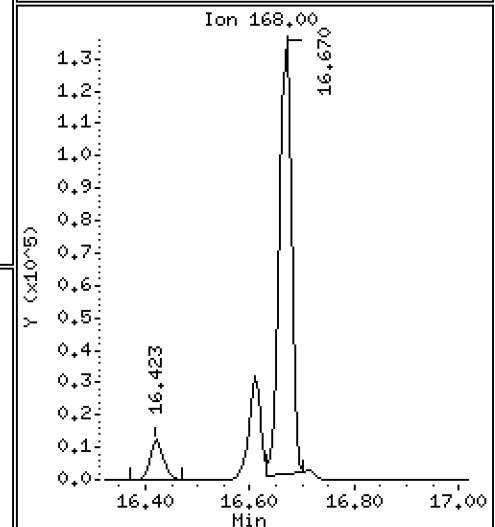
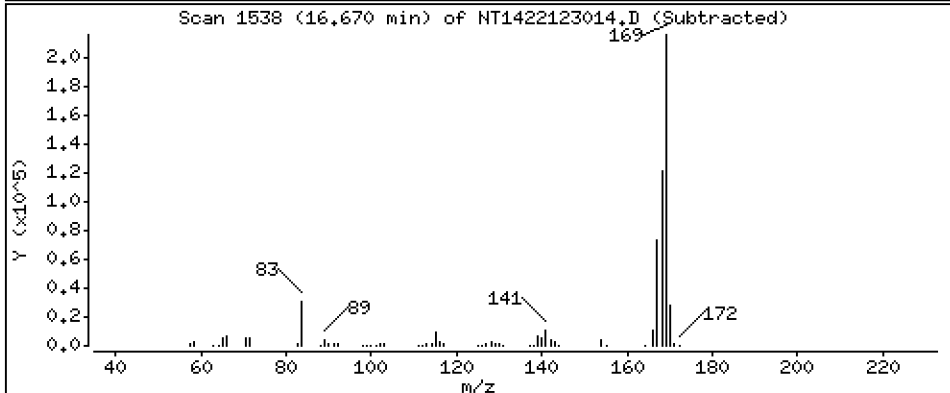
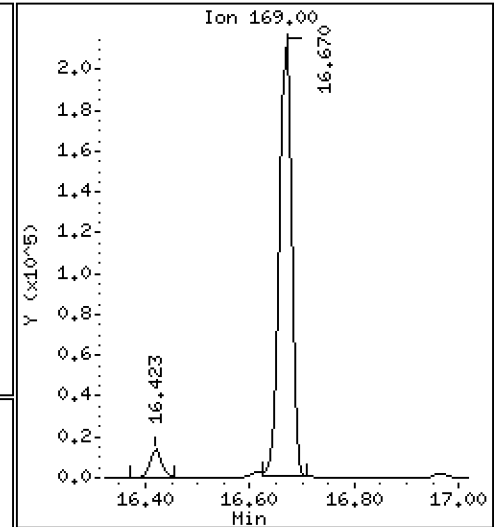
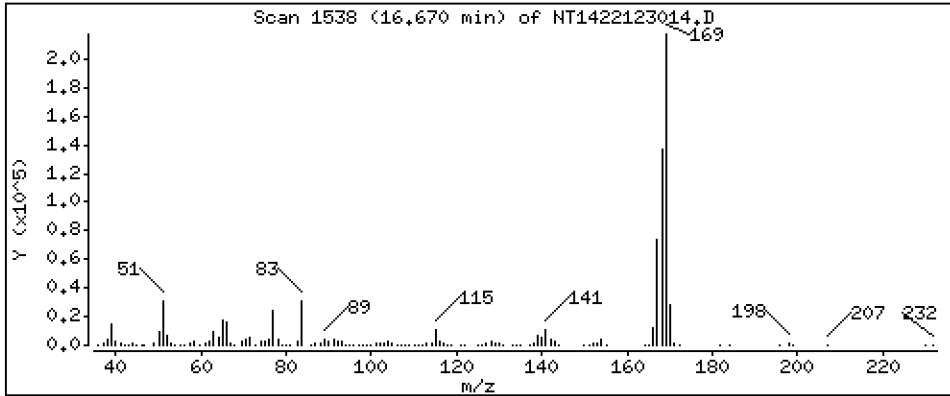
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,619 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

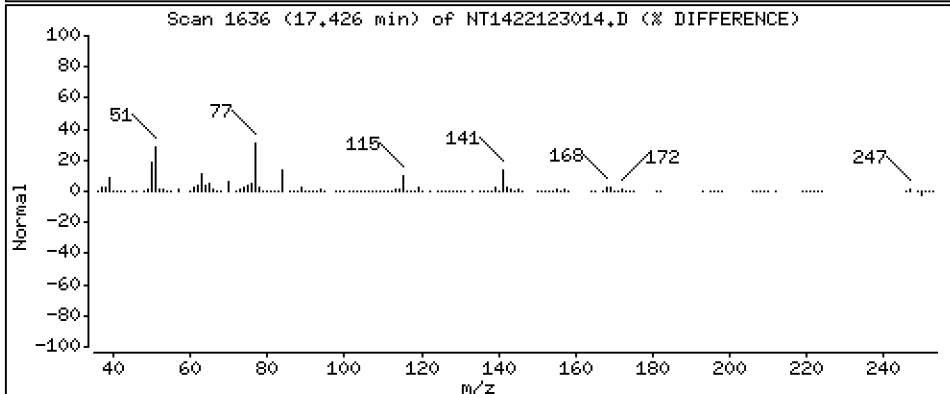
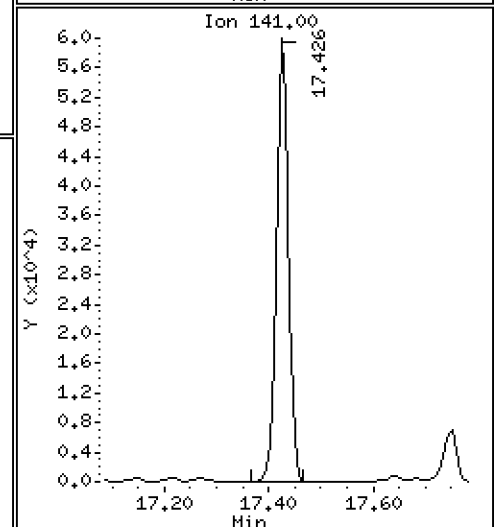
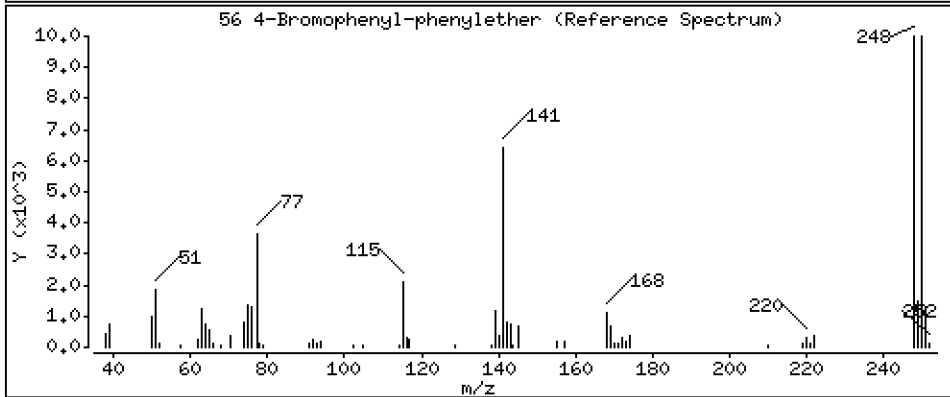
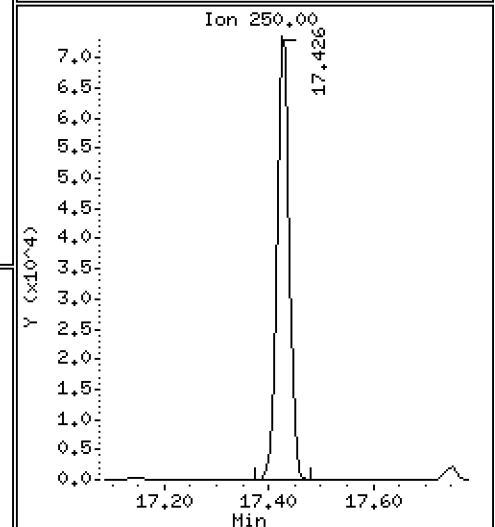
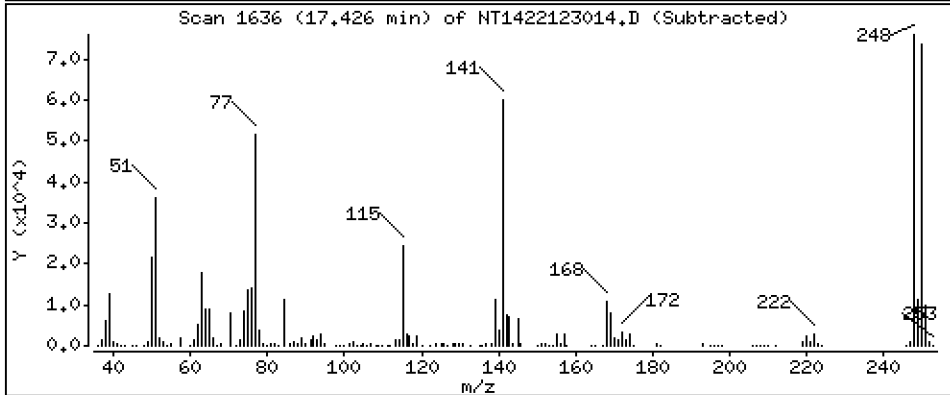
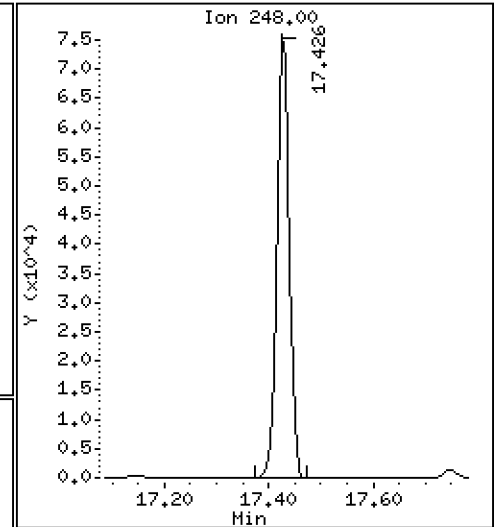
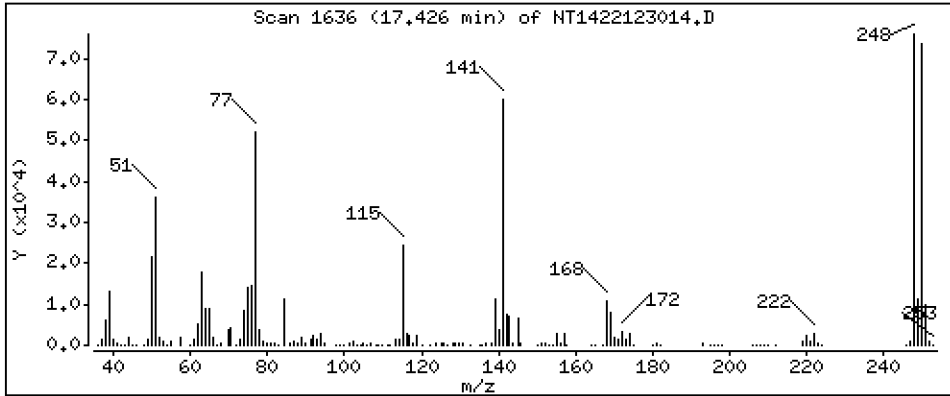
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,600 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

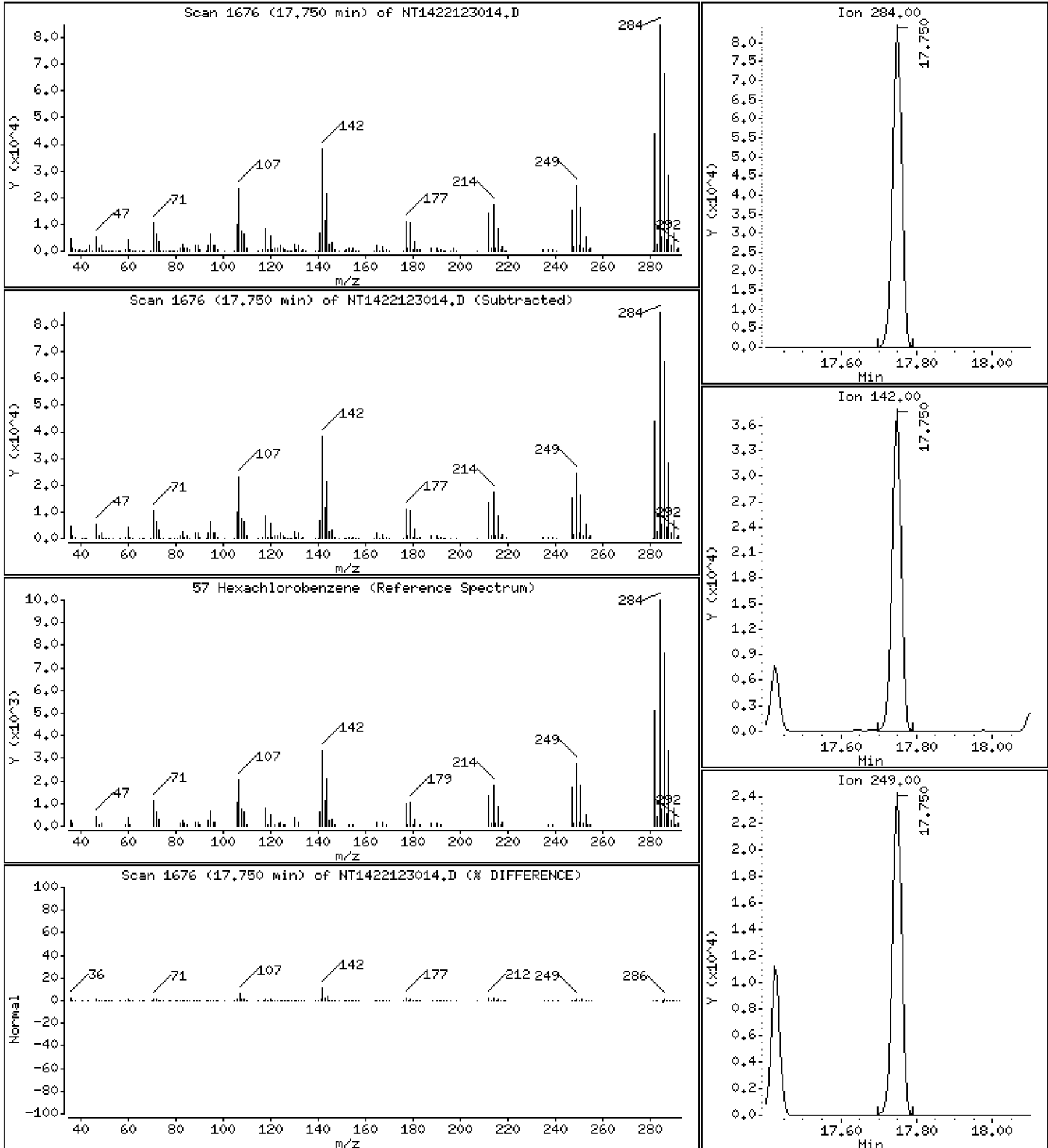
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,512 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

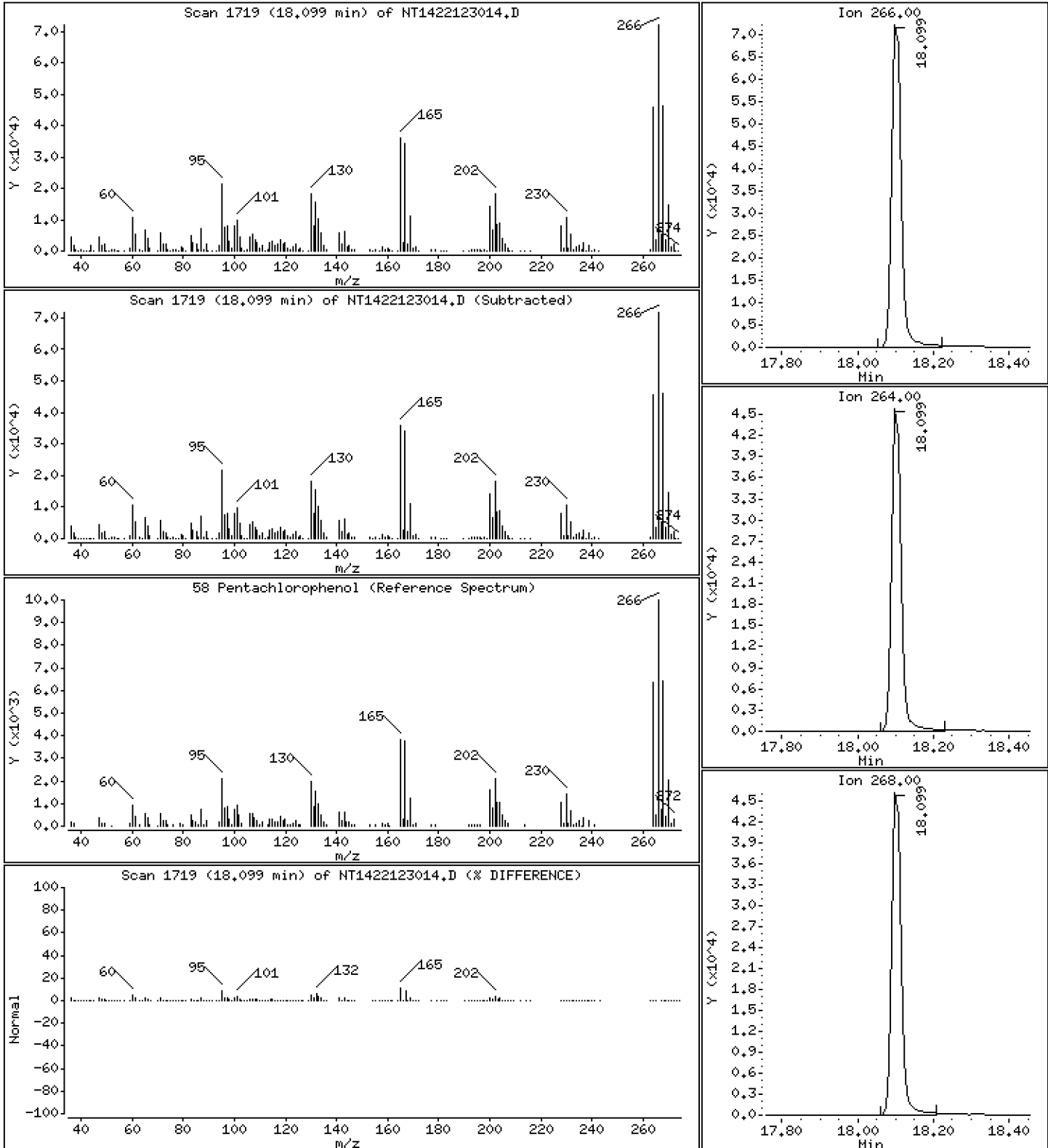
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 8,913 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

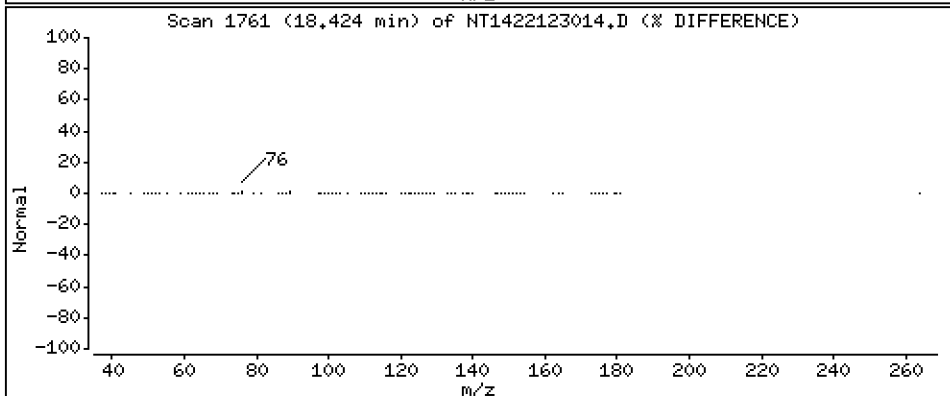
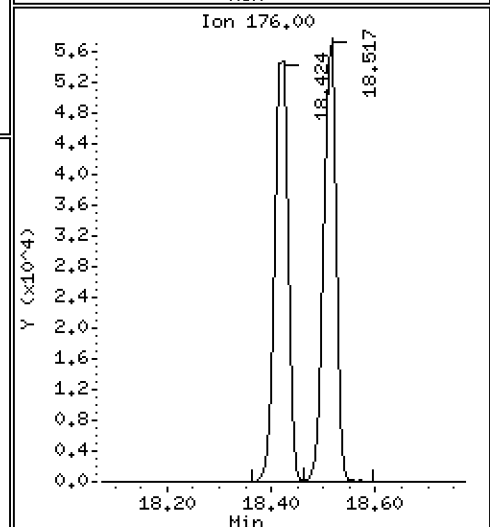
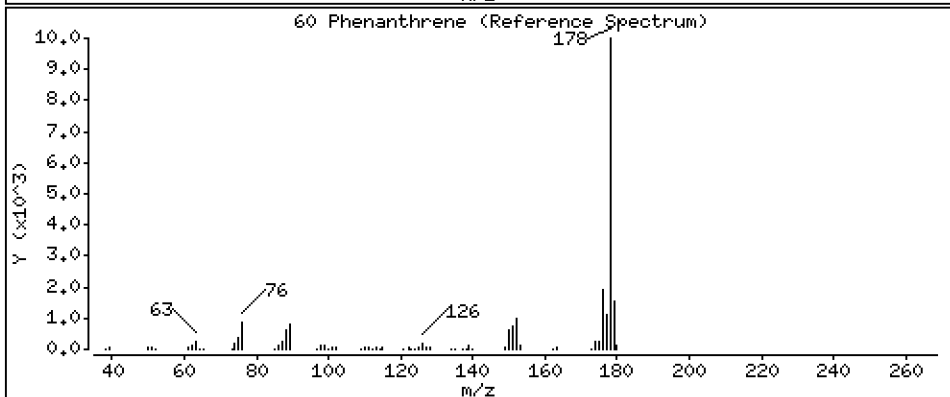
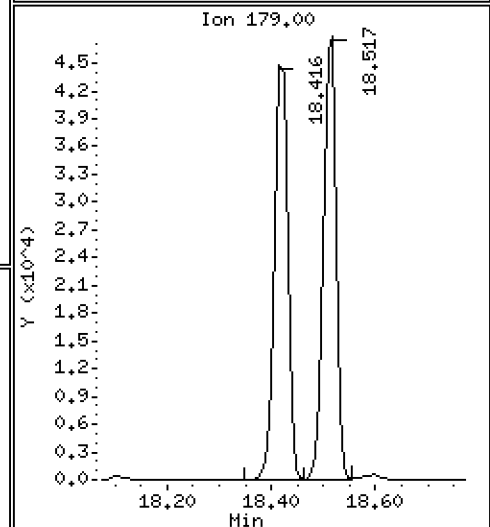
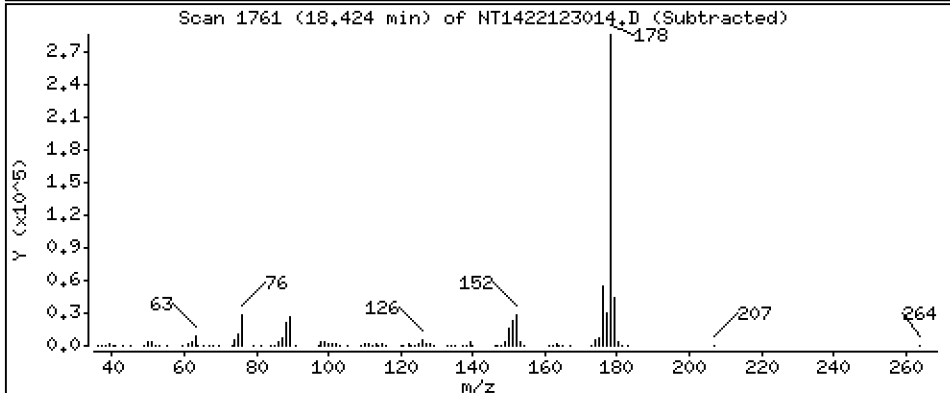
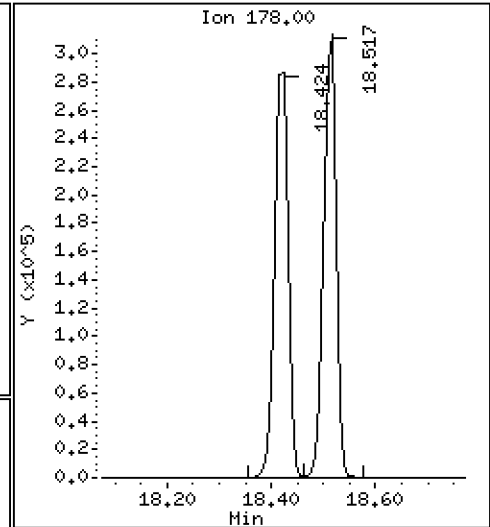
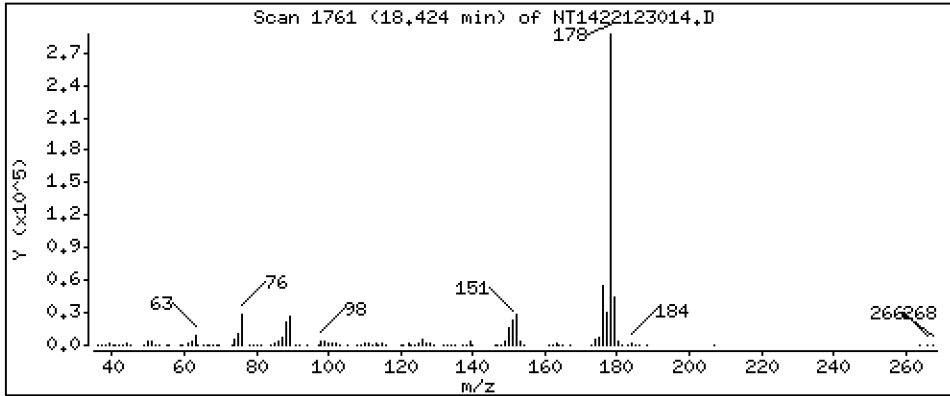
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,591 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

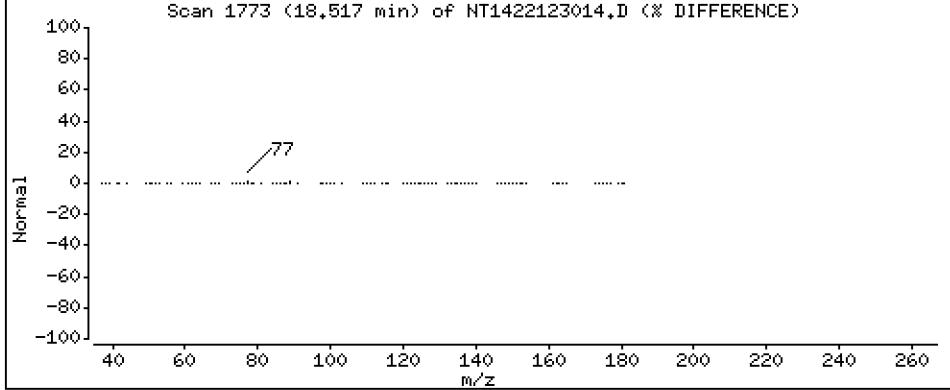
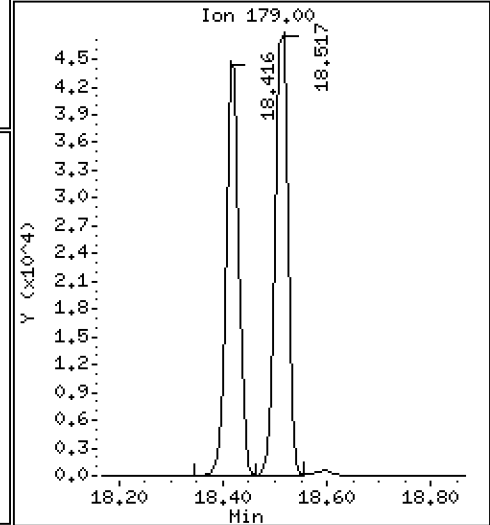
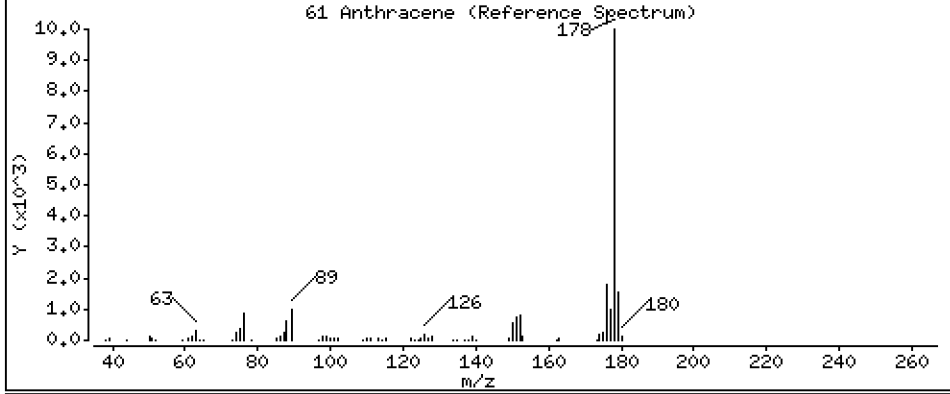
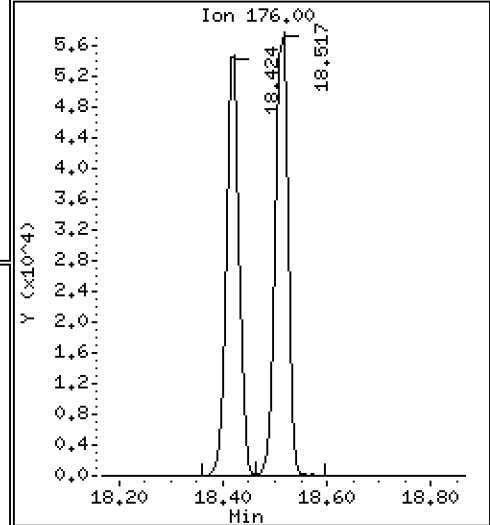
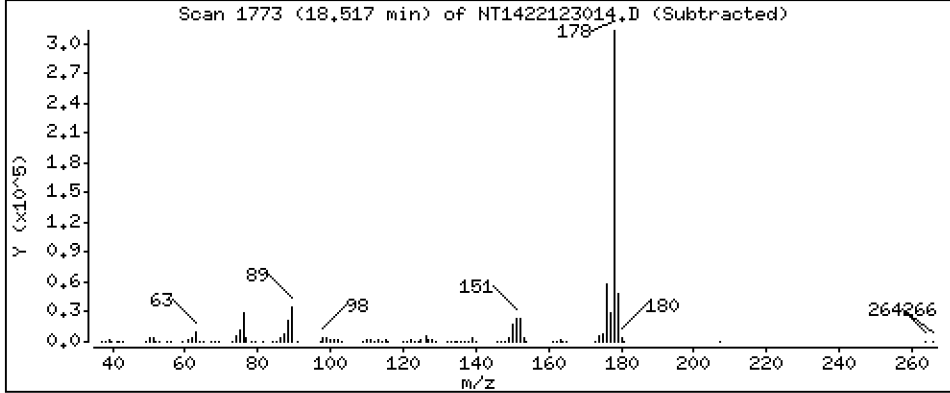
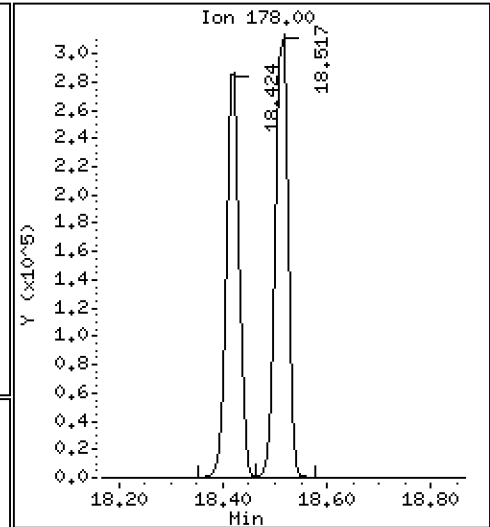
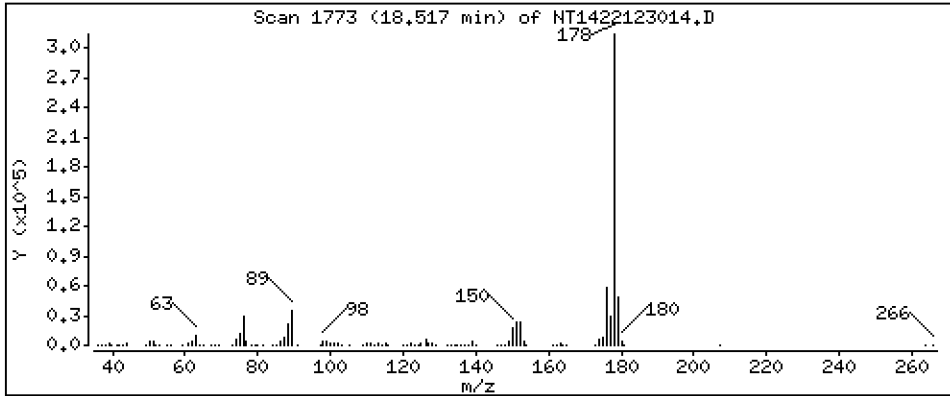
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,879 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

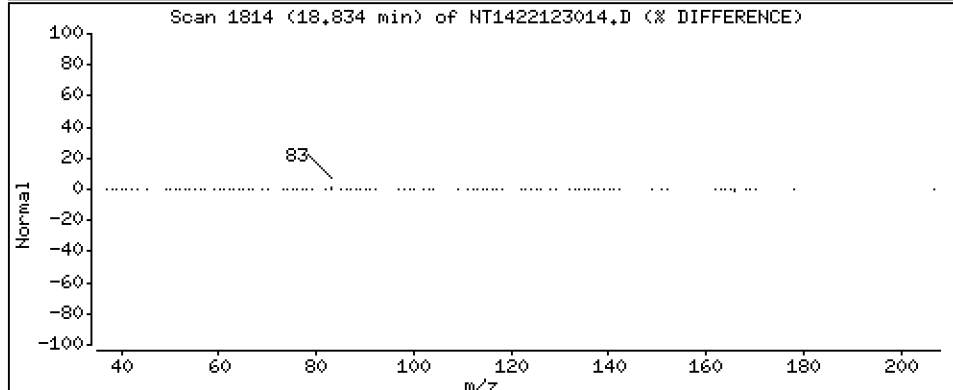
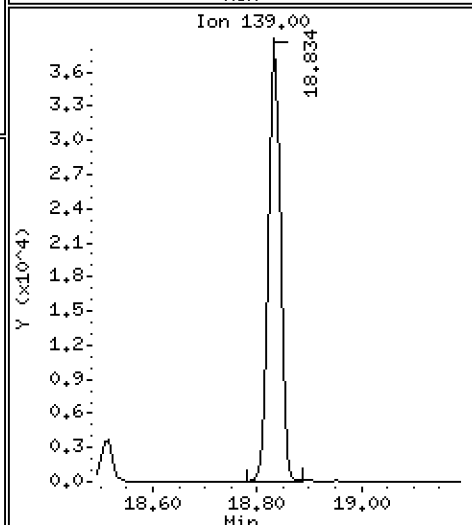
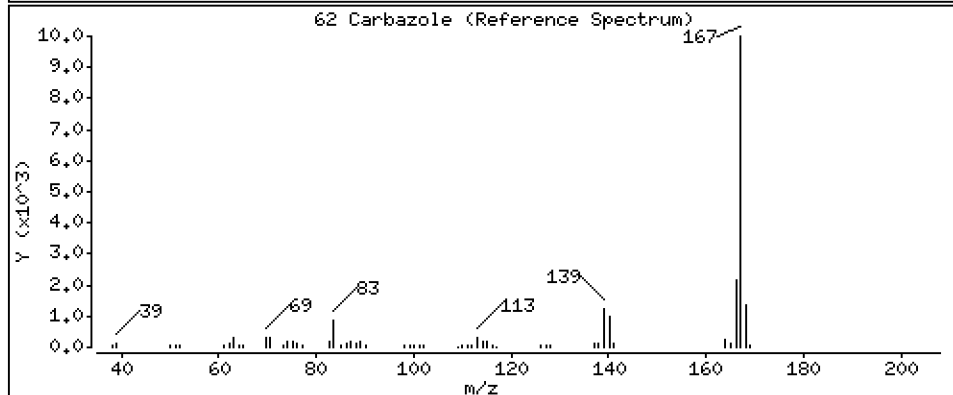
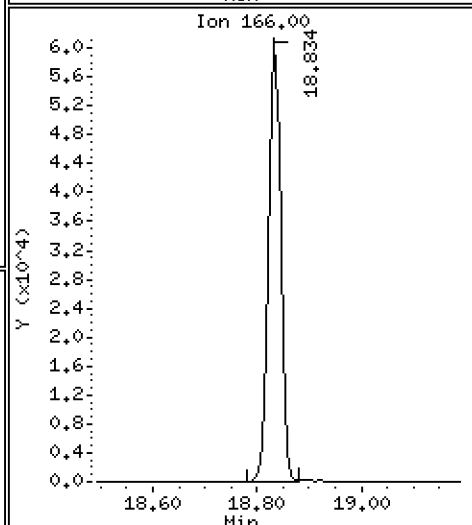
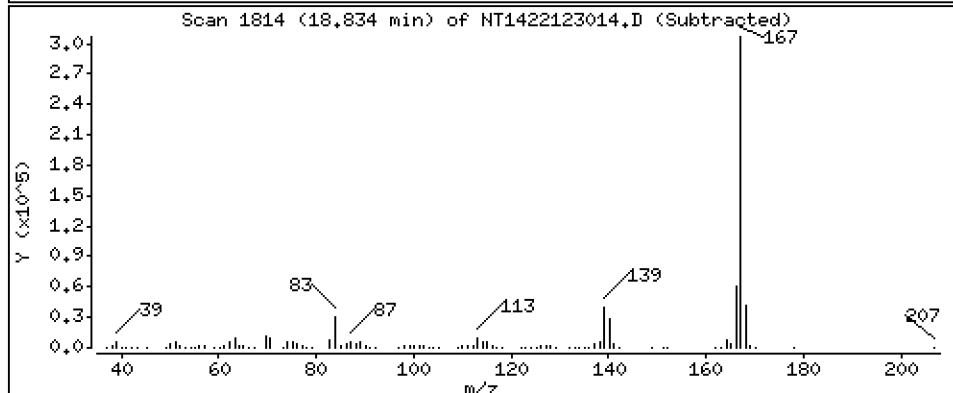
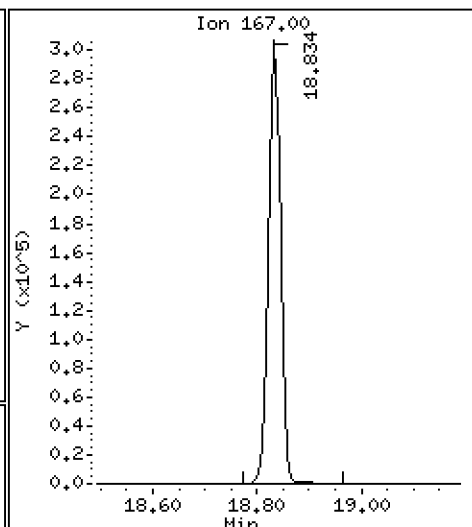
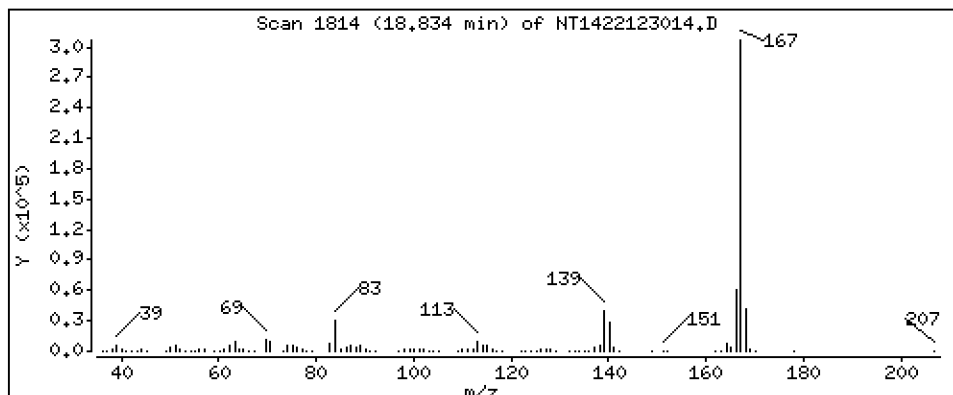
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,678 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

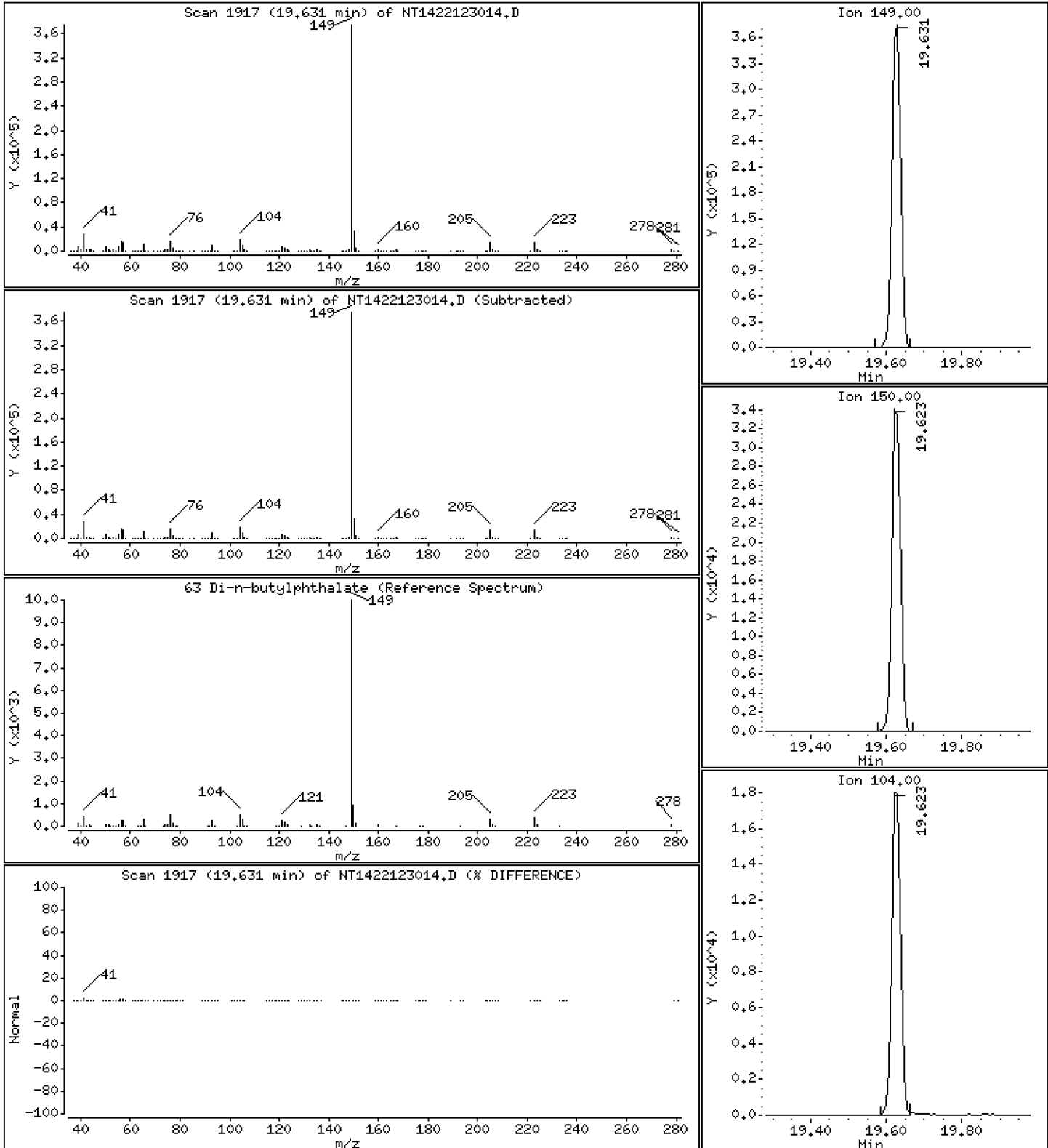
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 4,807 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

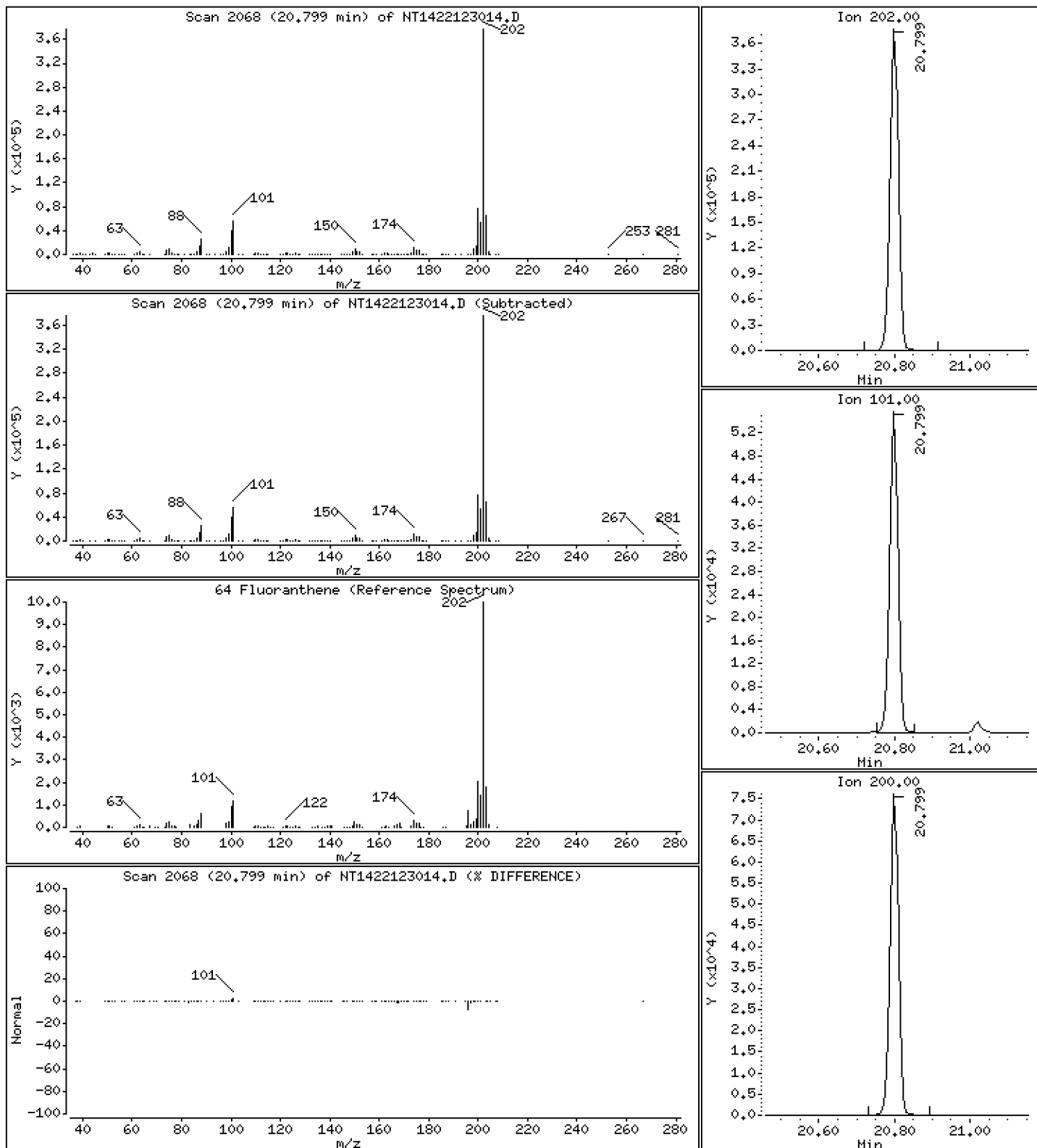
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,863 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

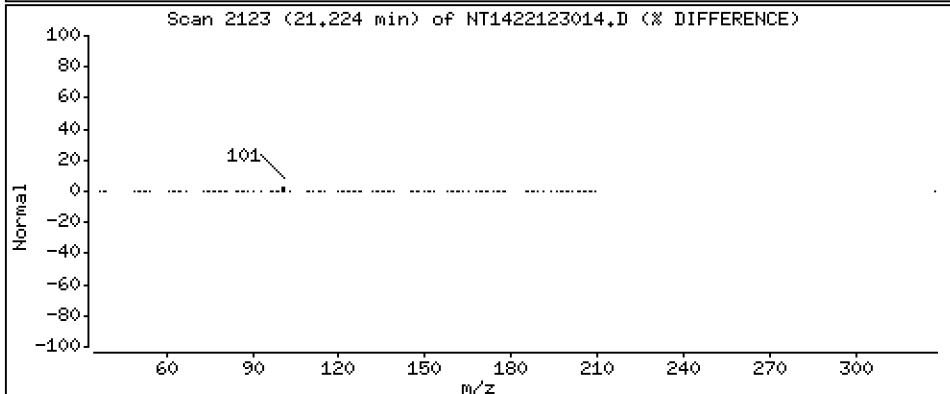
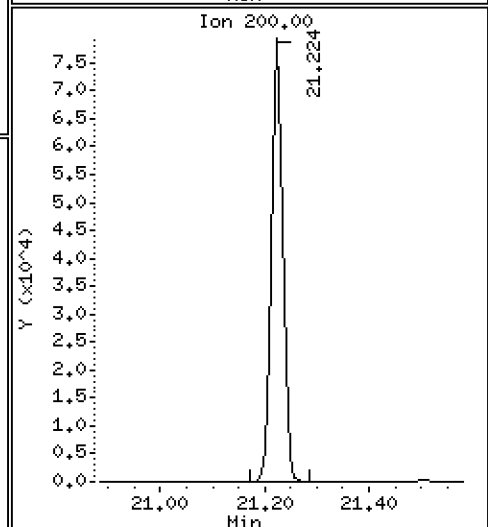
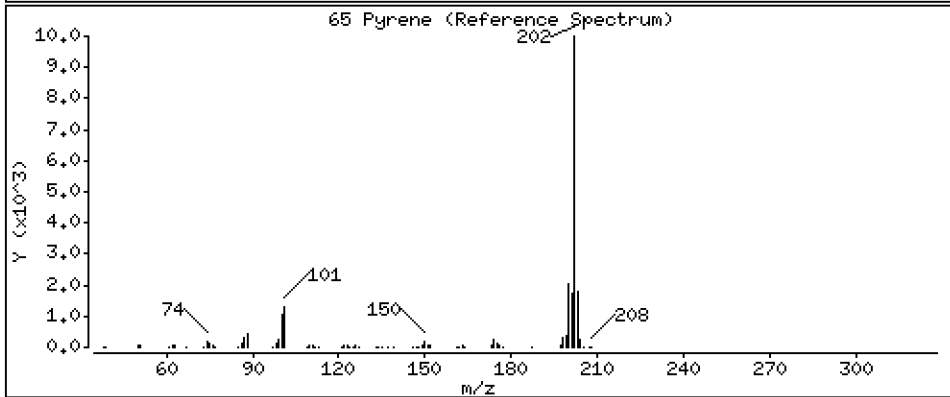
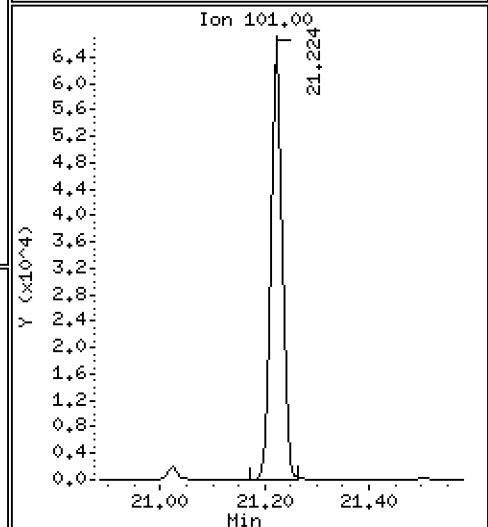
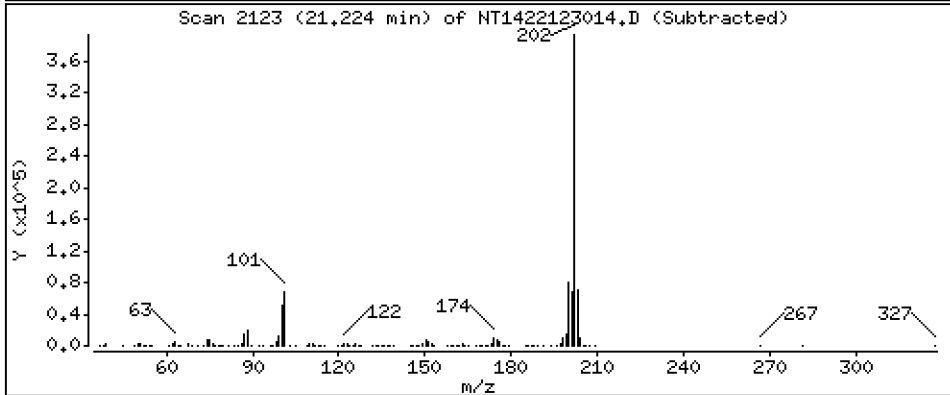
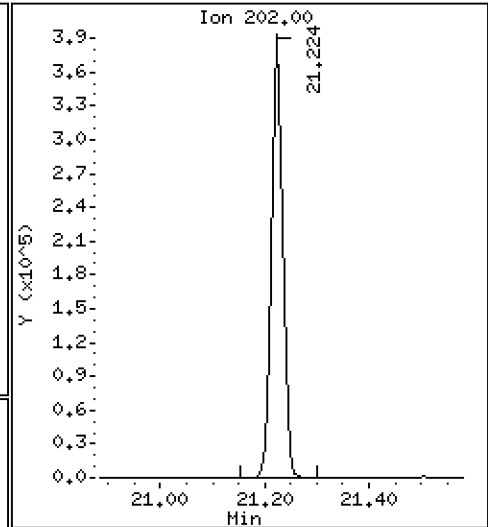
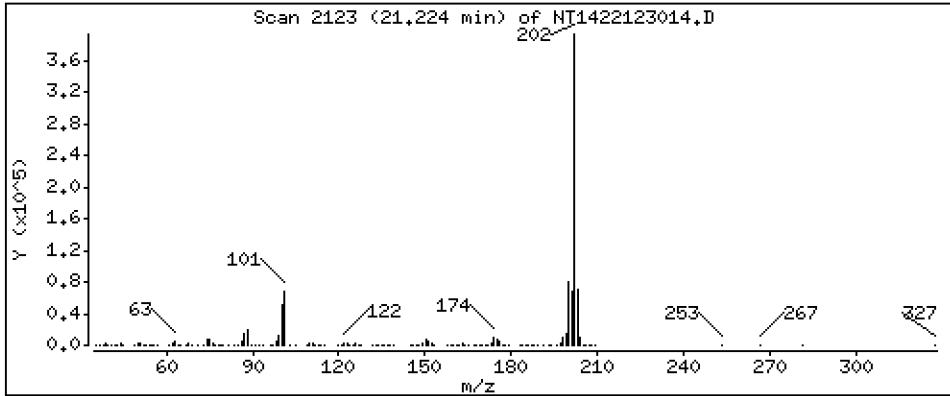
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,842 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

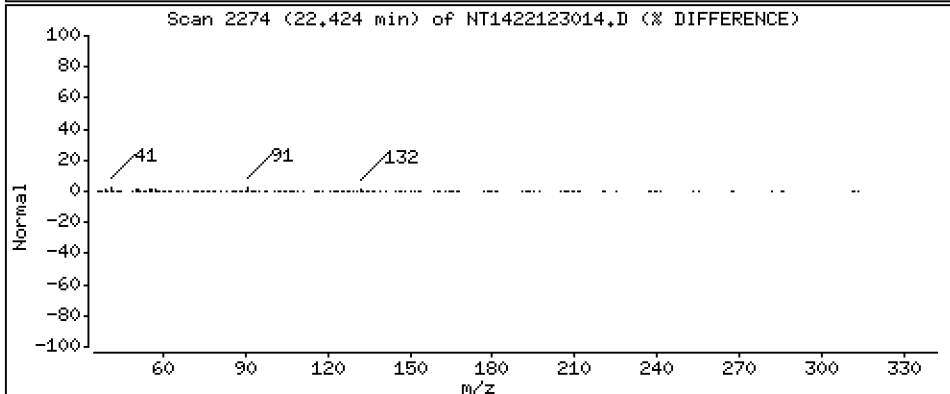
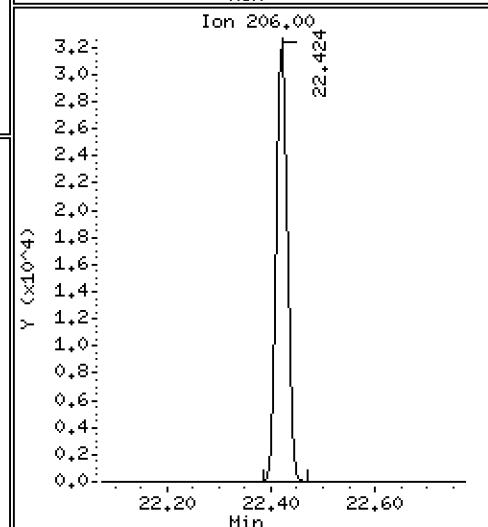
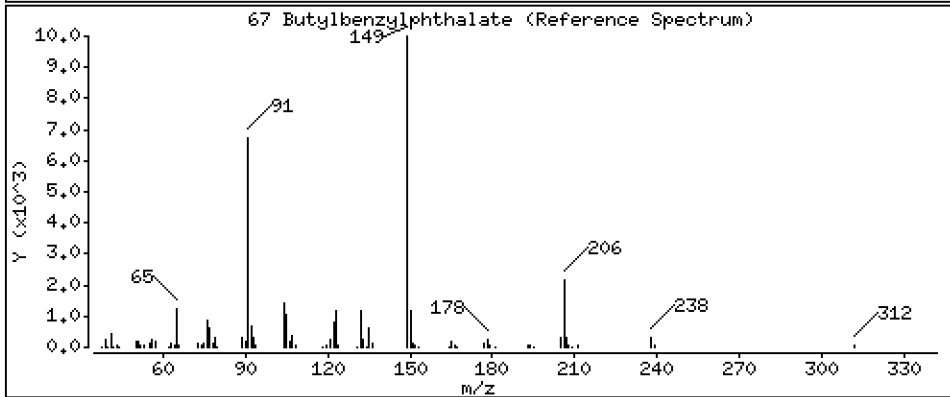
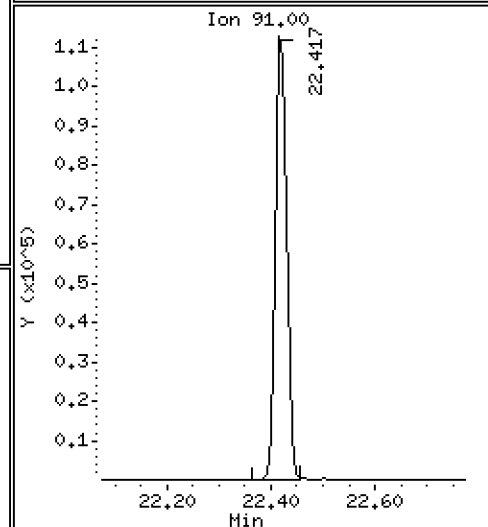
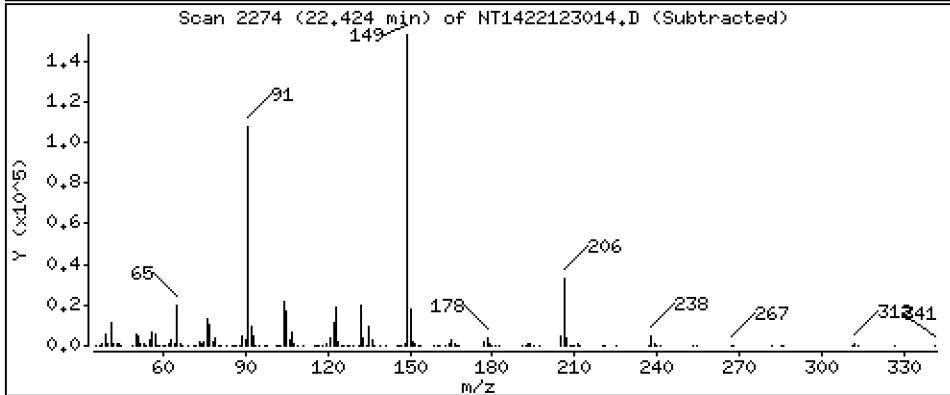
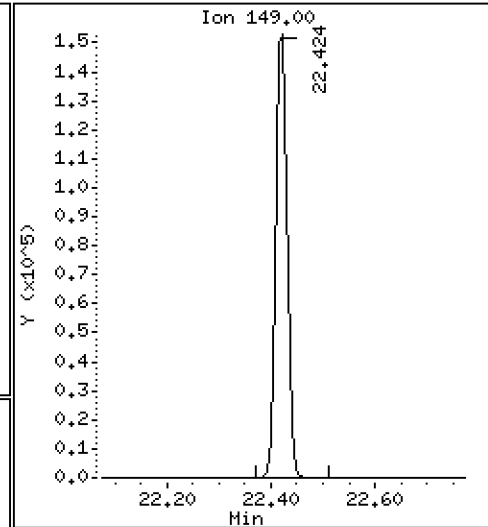
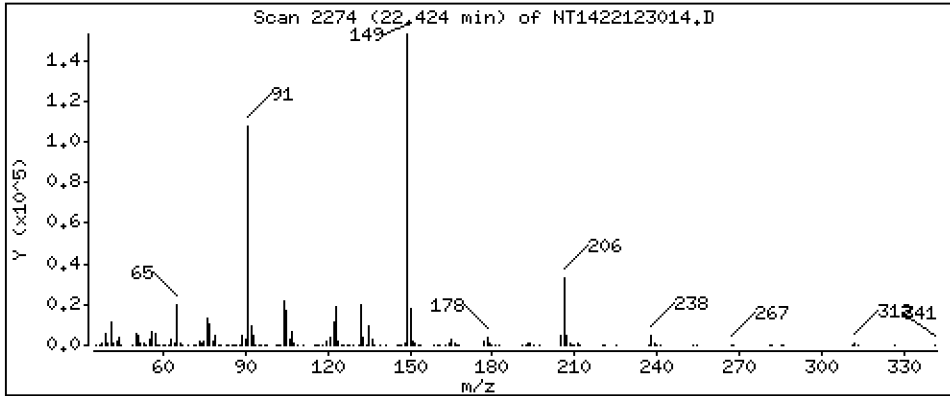
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 4,869 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

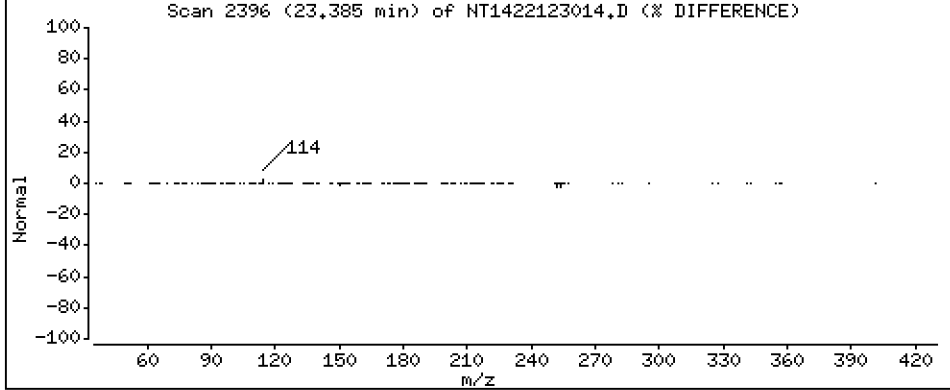
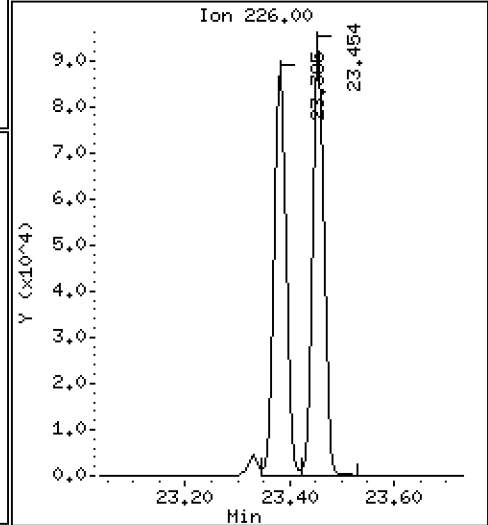
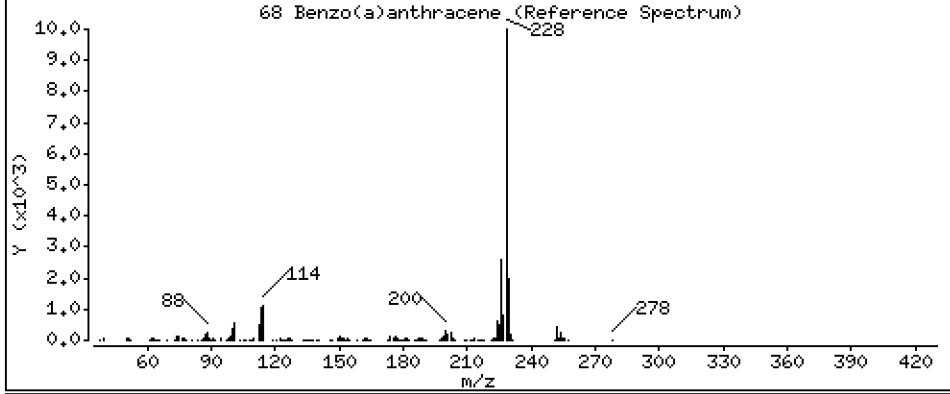
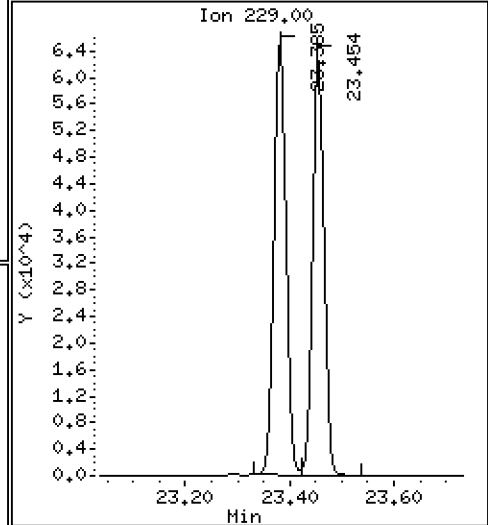
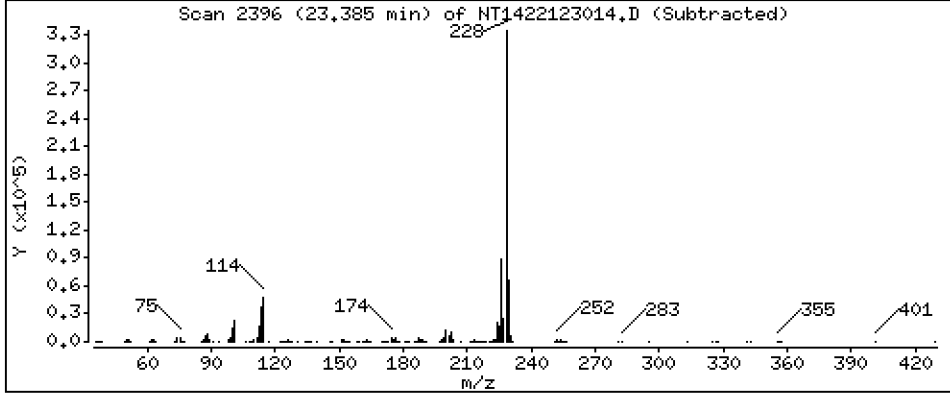
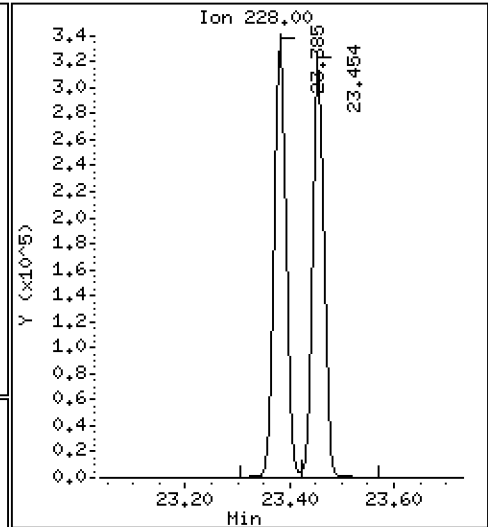
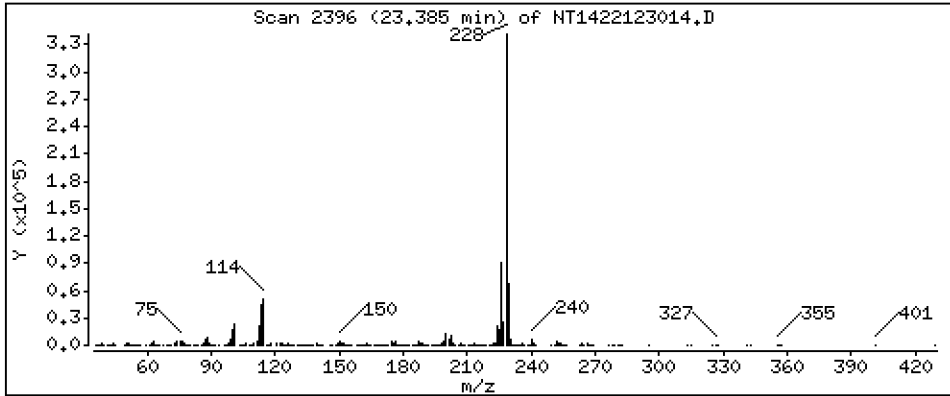
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,796 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

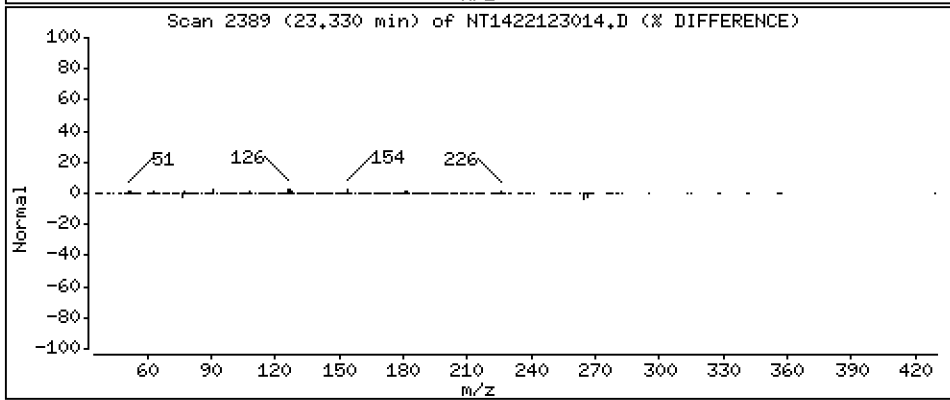
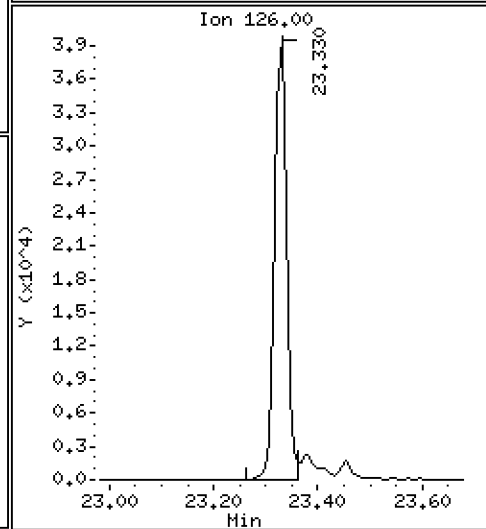
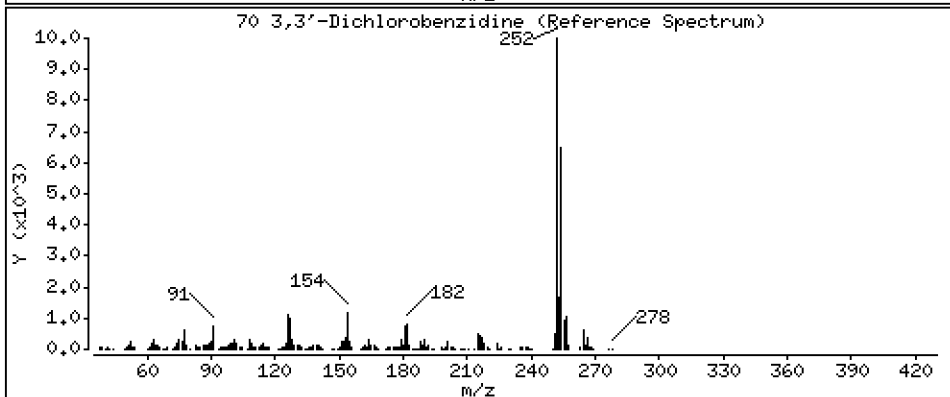
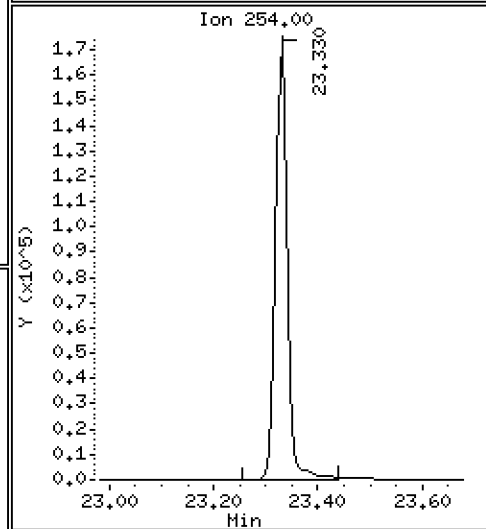
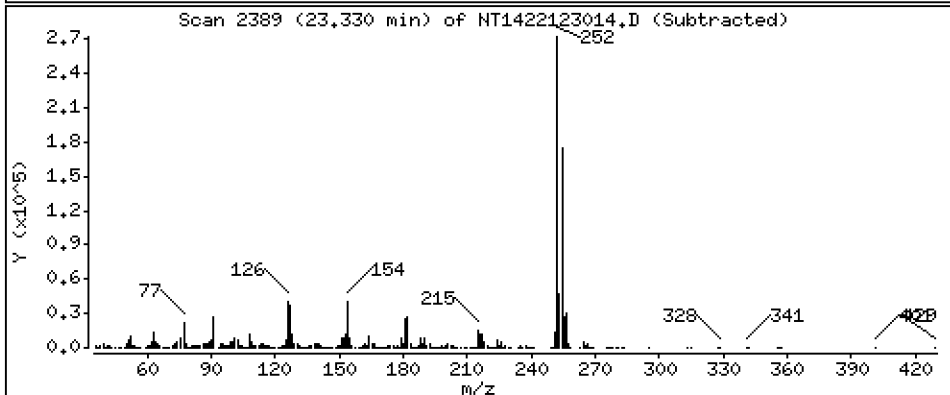
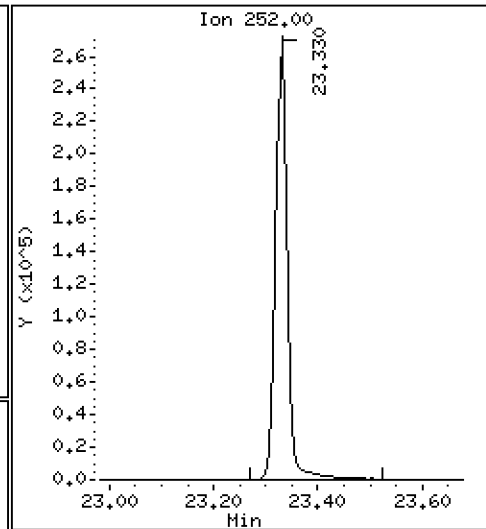
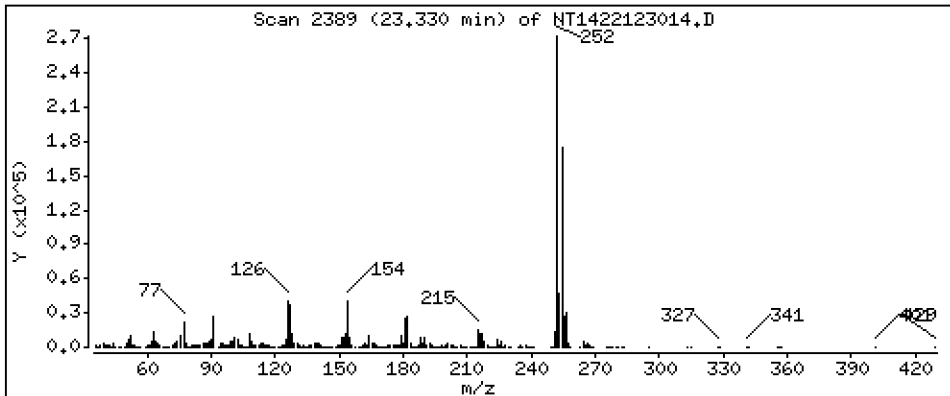
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 12,25 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

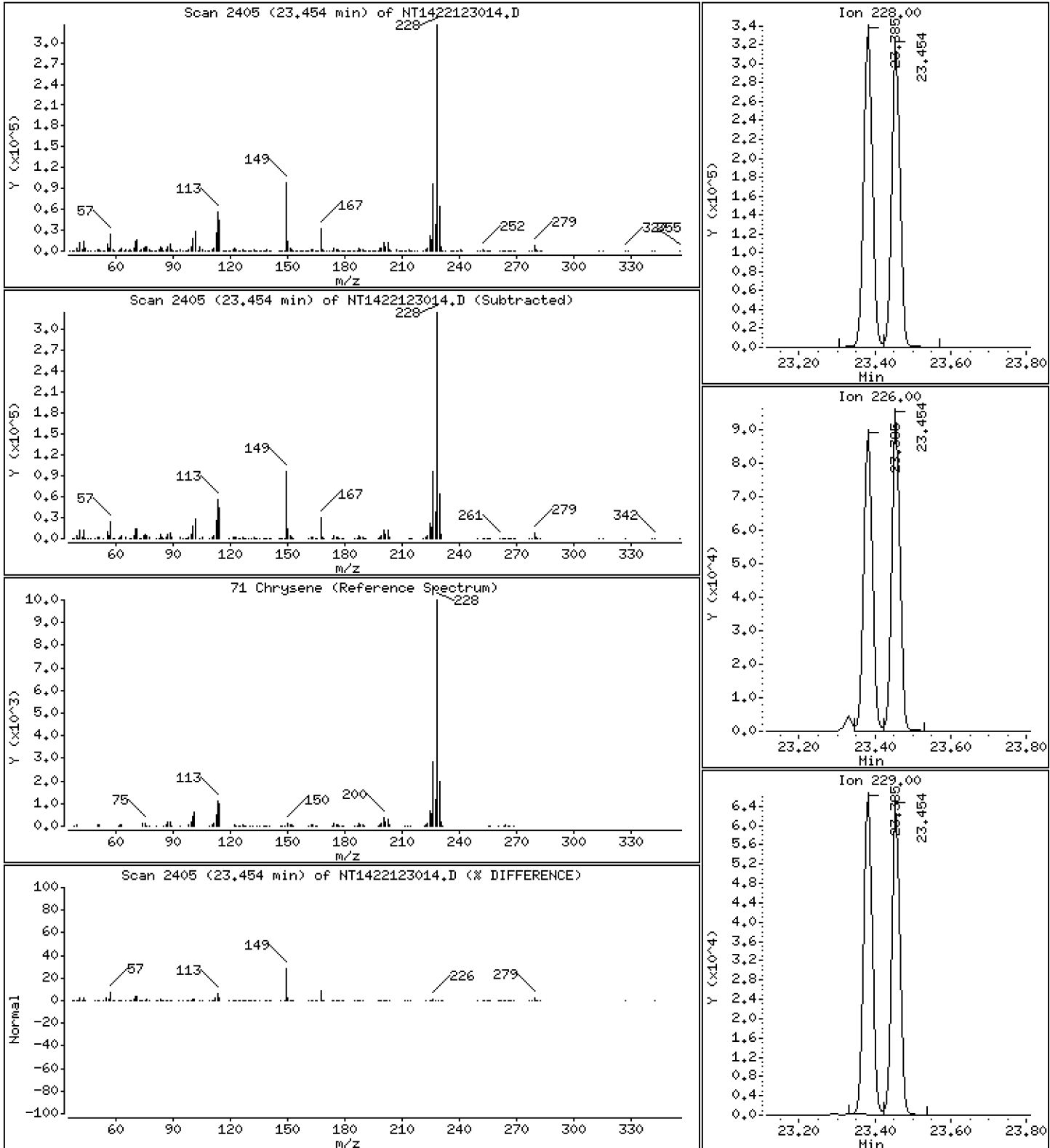
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,690 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

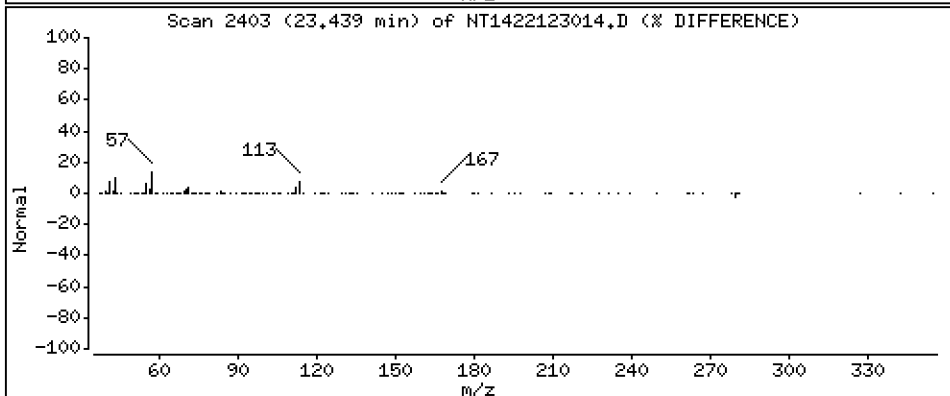
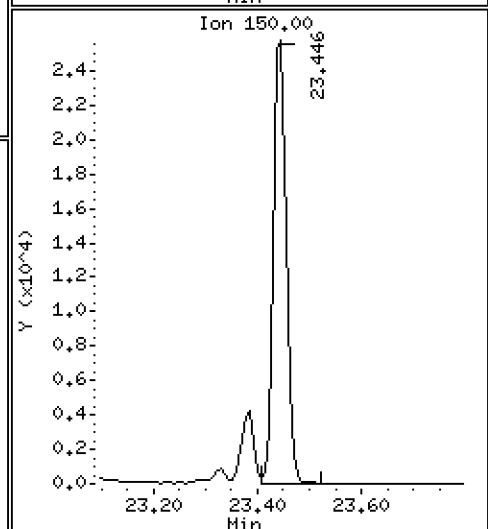
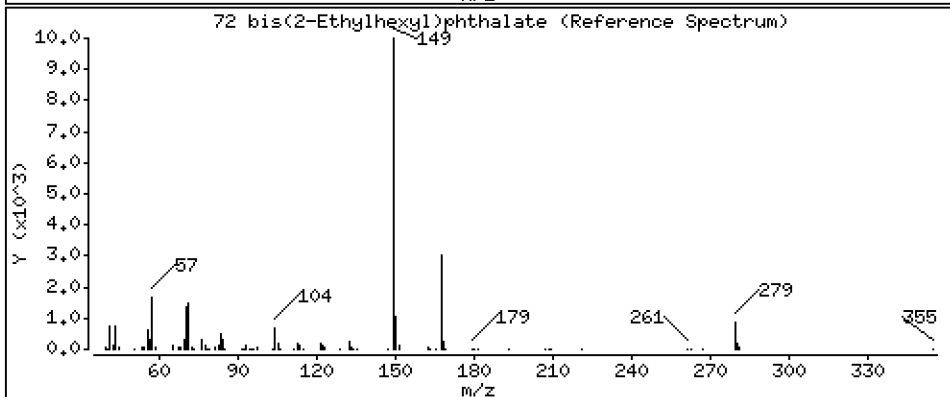
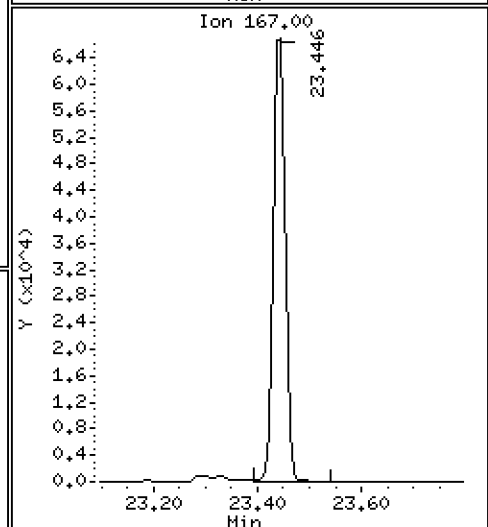
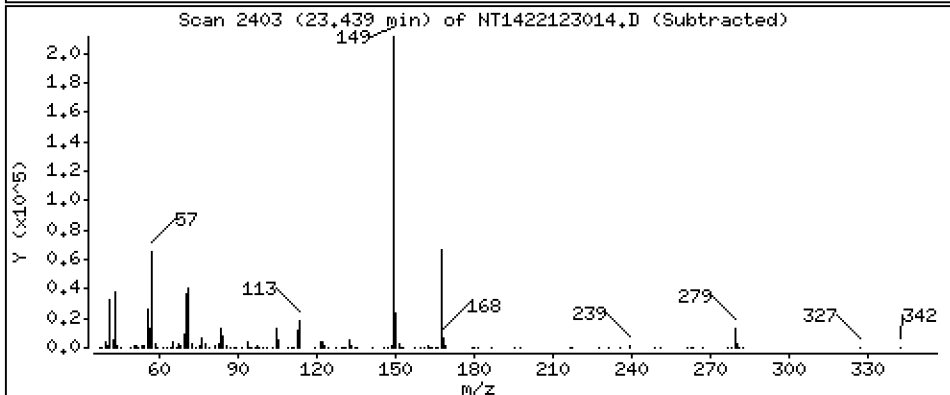
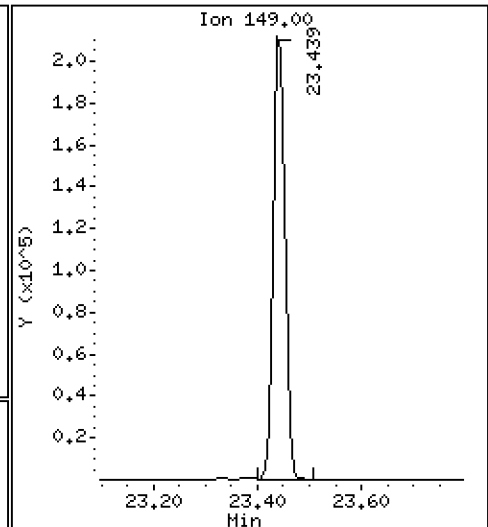
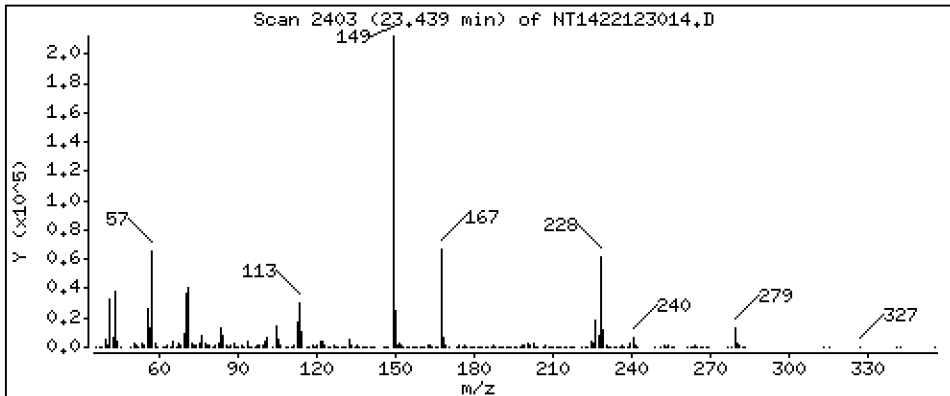
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 5,469 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

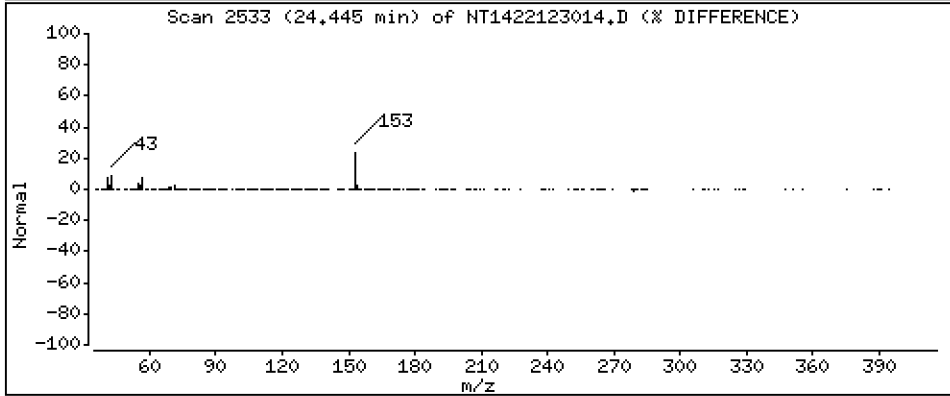
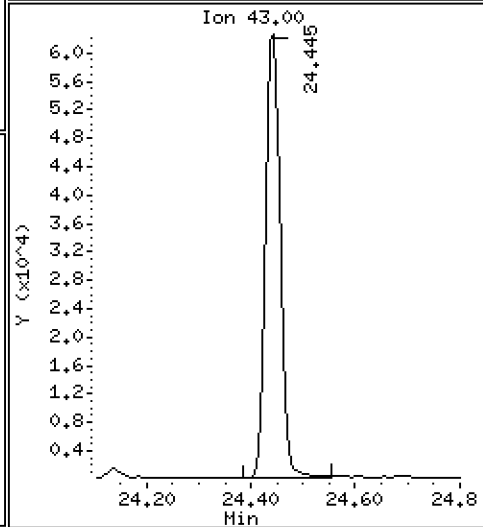
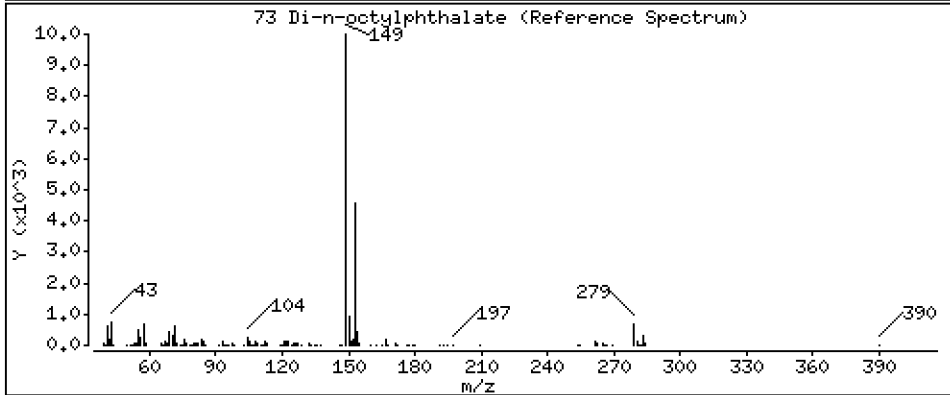
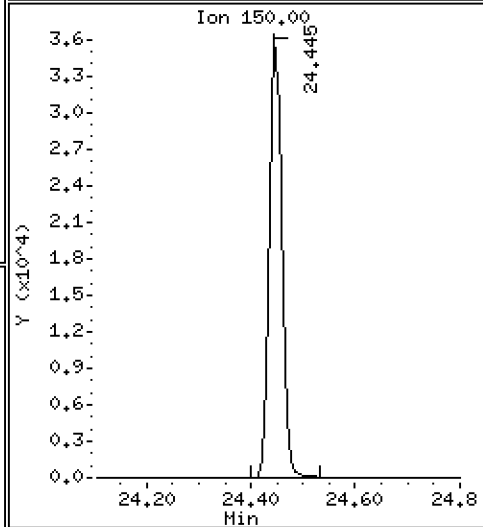
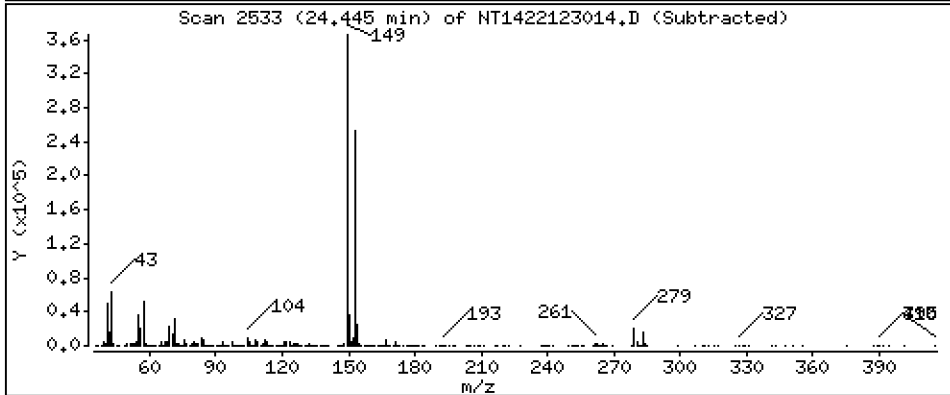
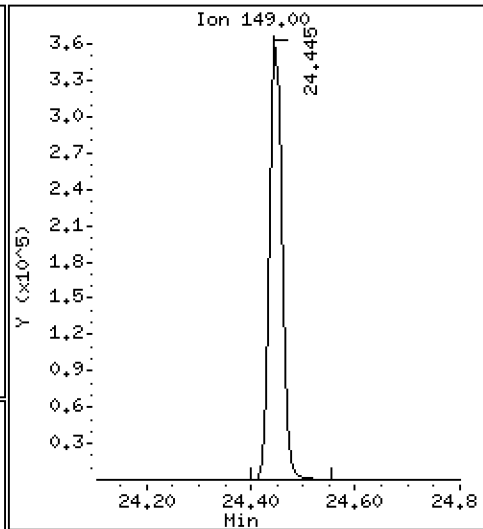
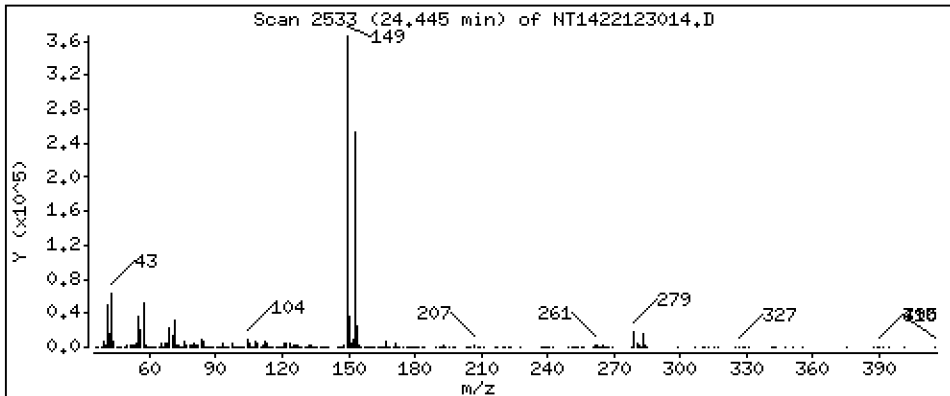
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,541 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

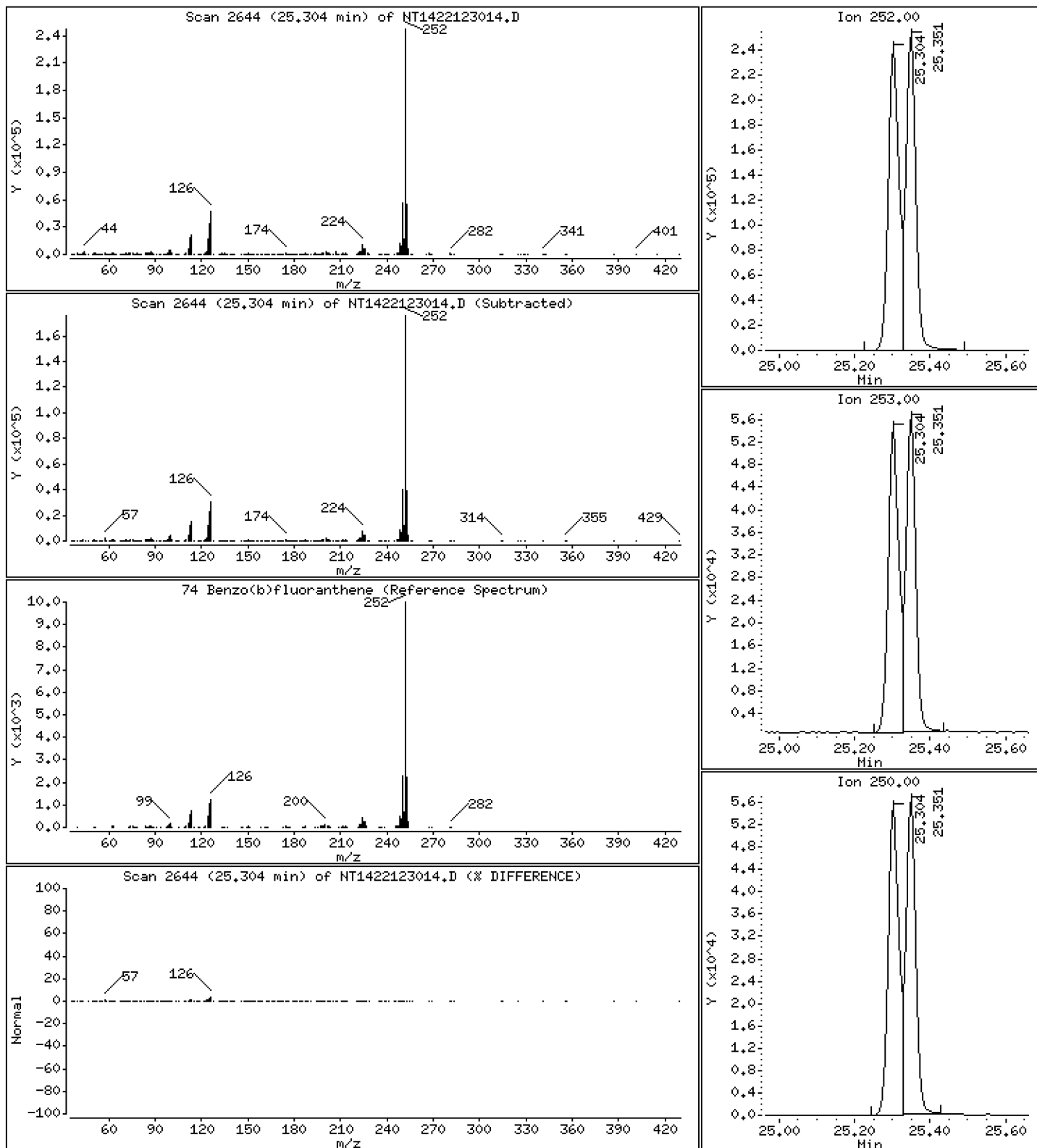
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 4,684 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

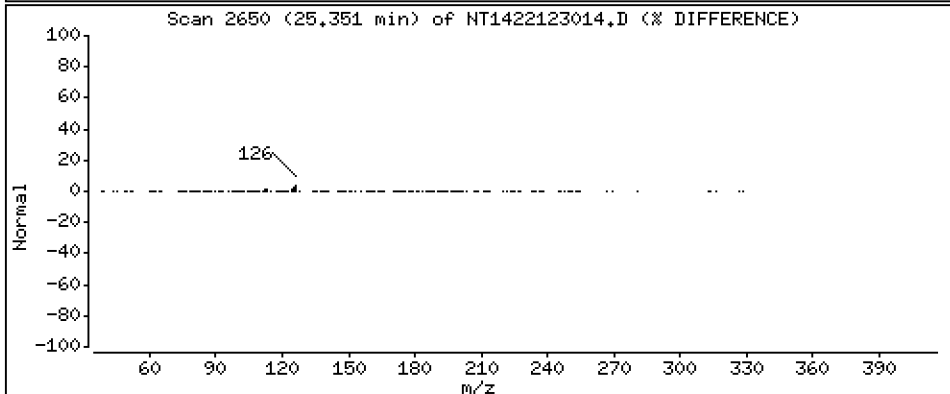
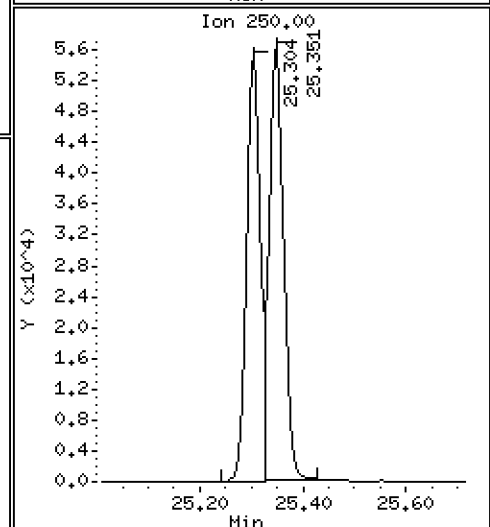
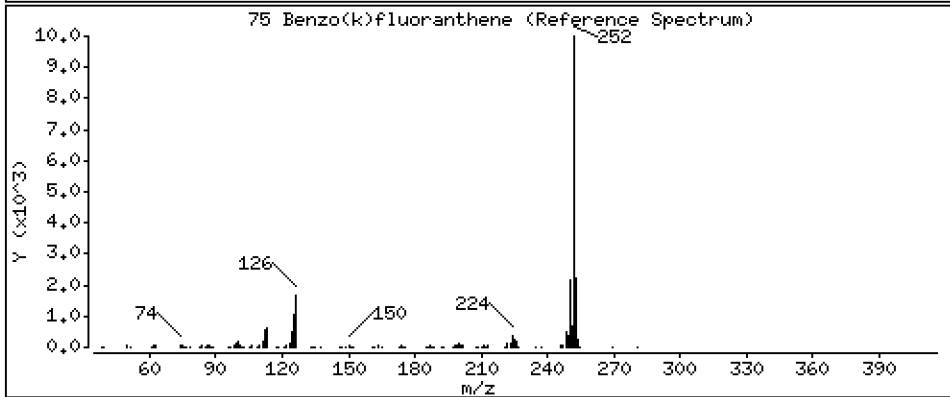
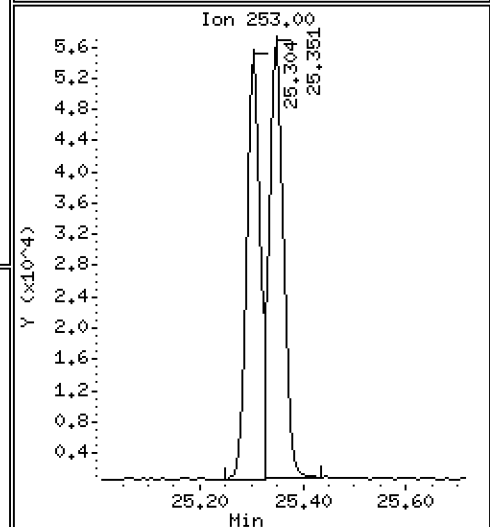
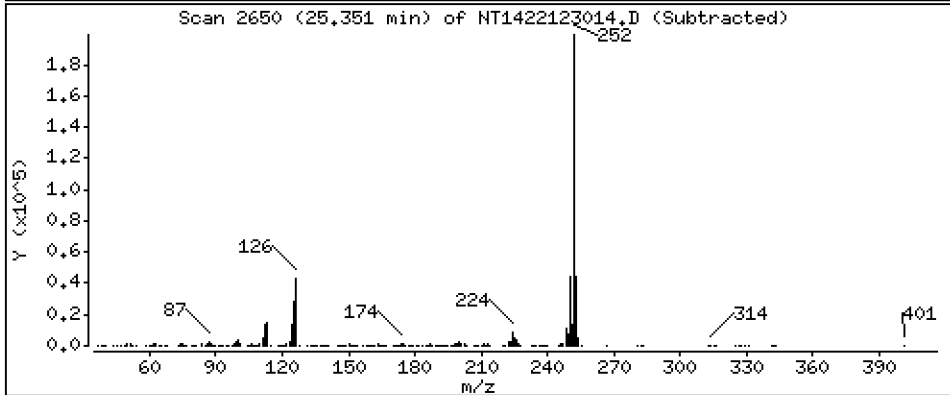
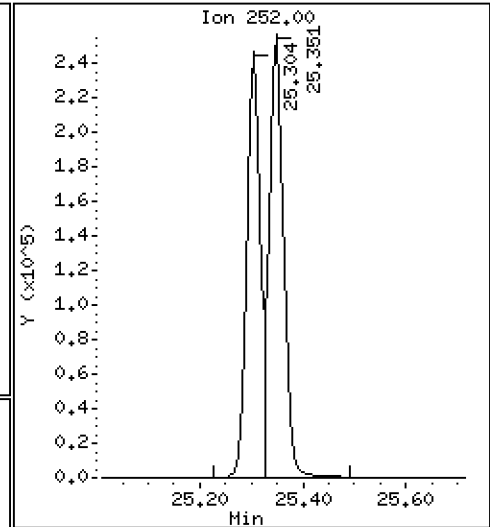
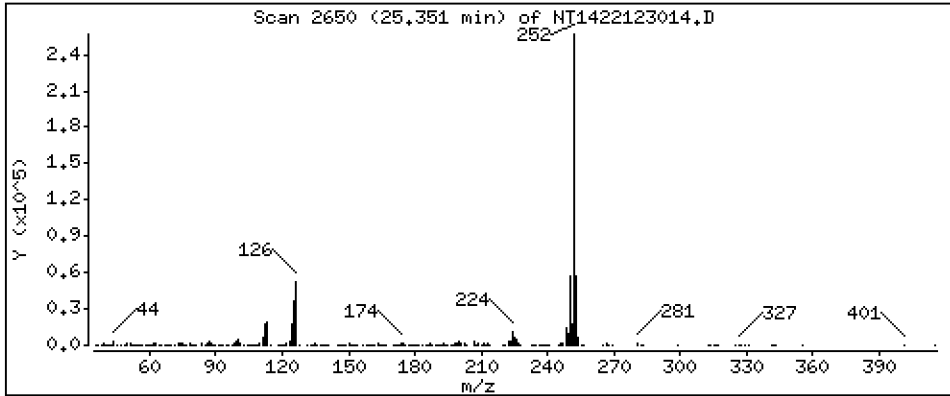
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 4,733 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

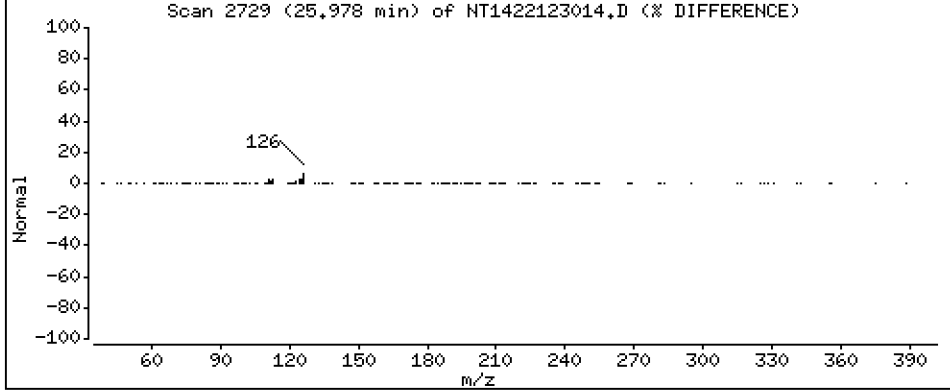
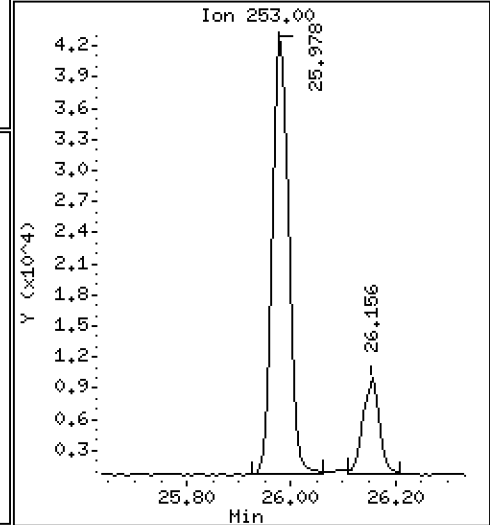
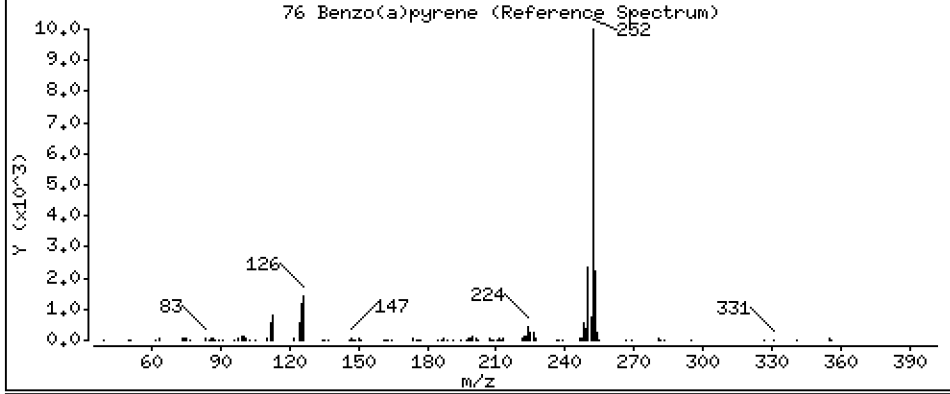
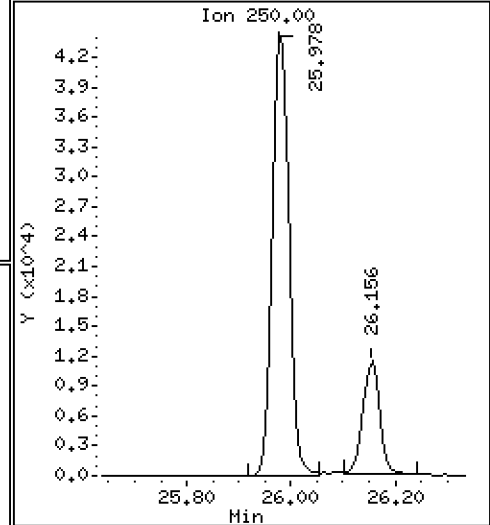
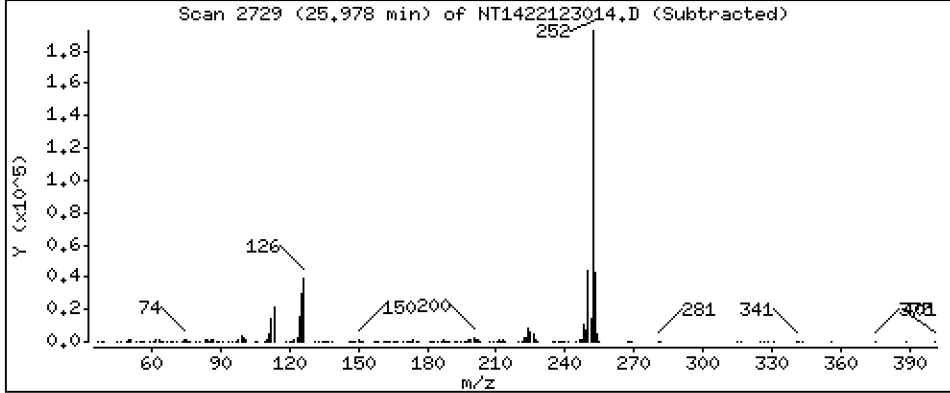
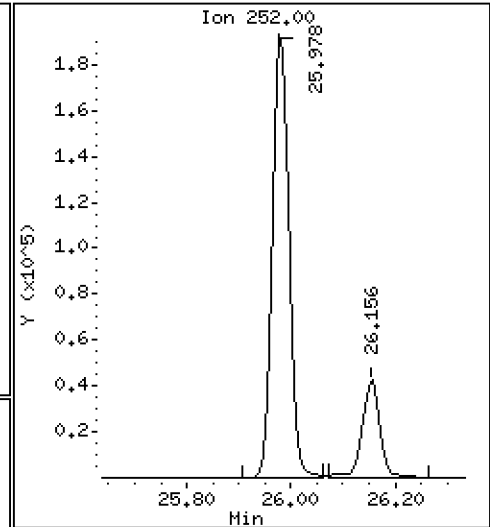
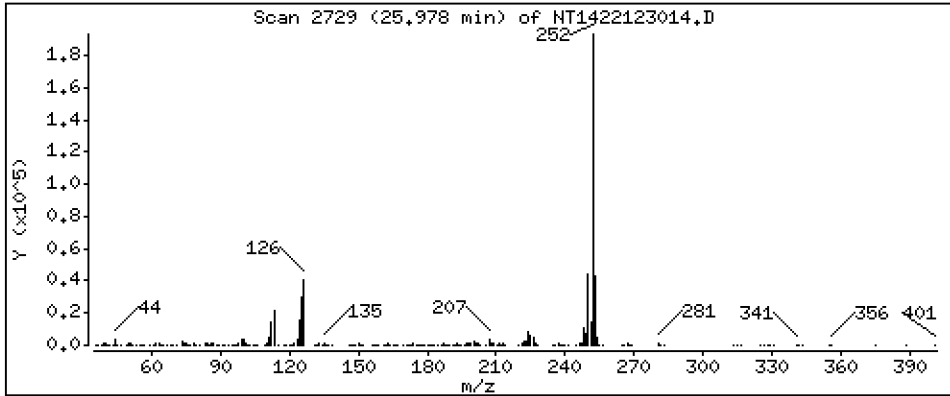
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 4,820 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

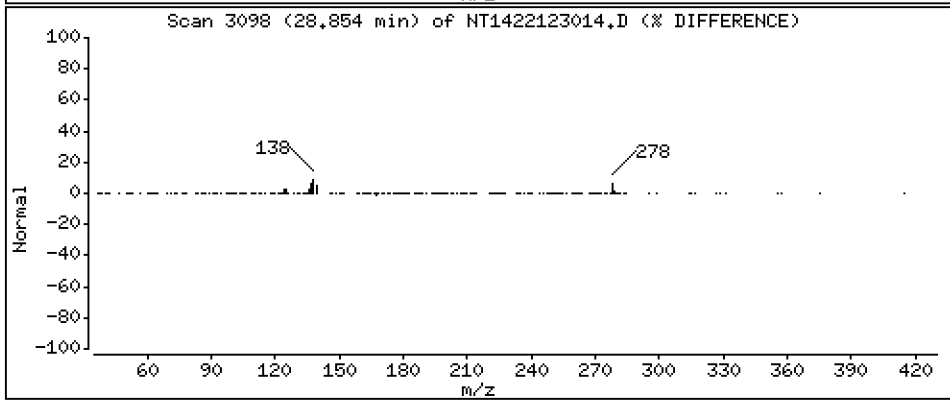
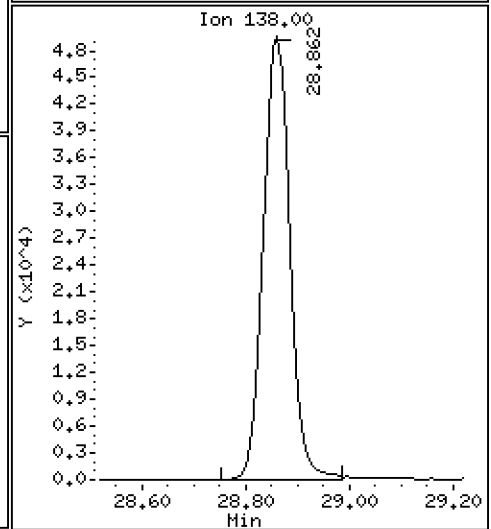
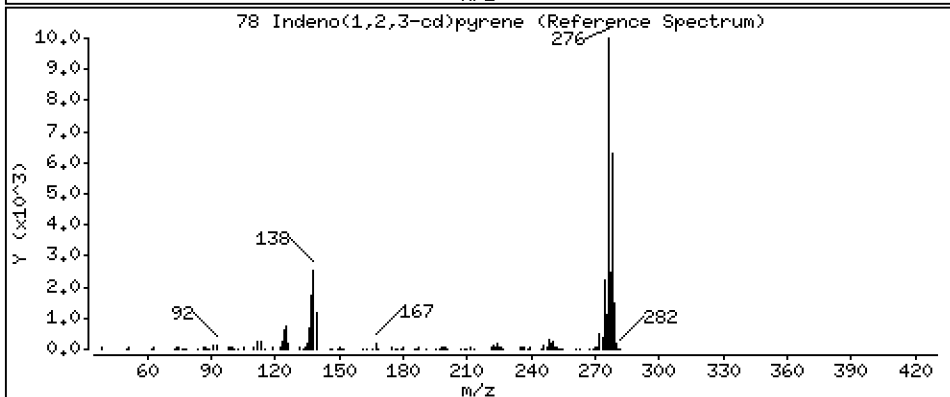
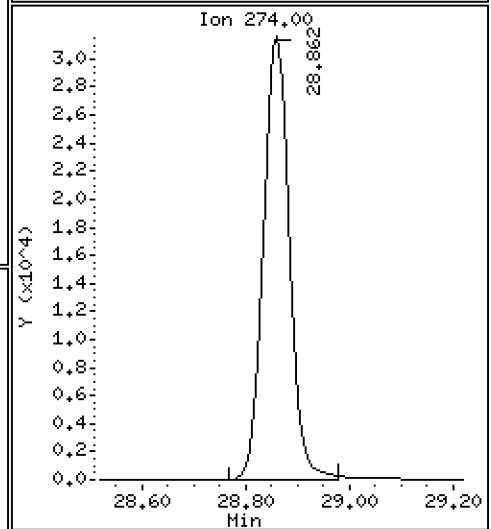
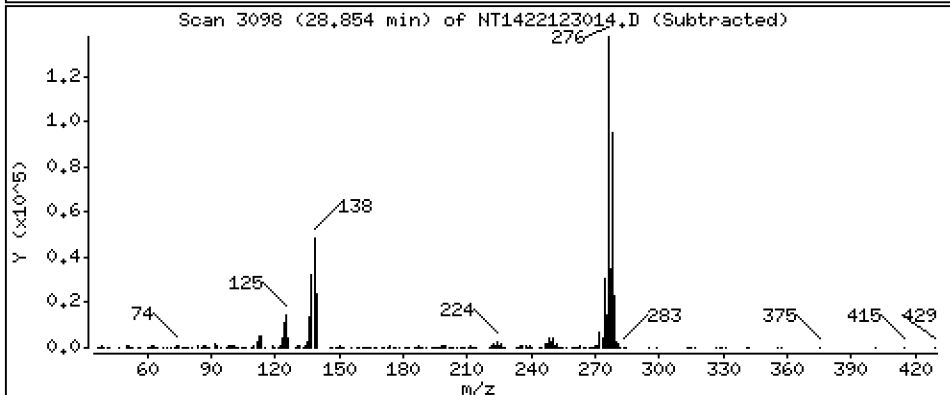
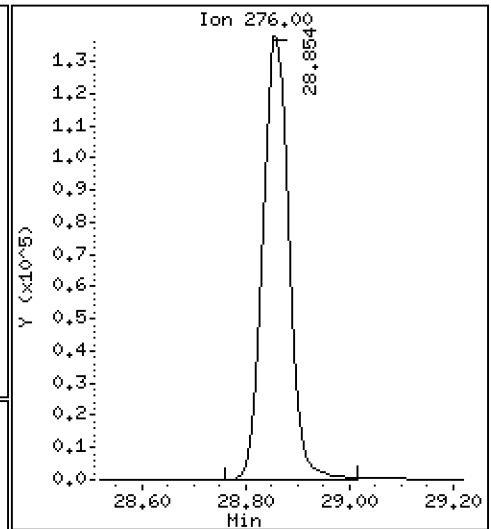
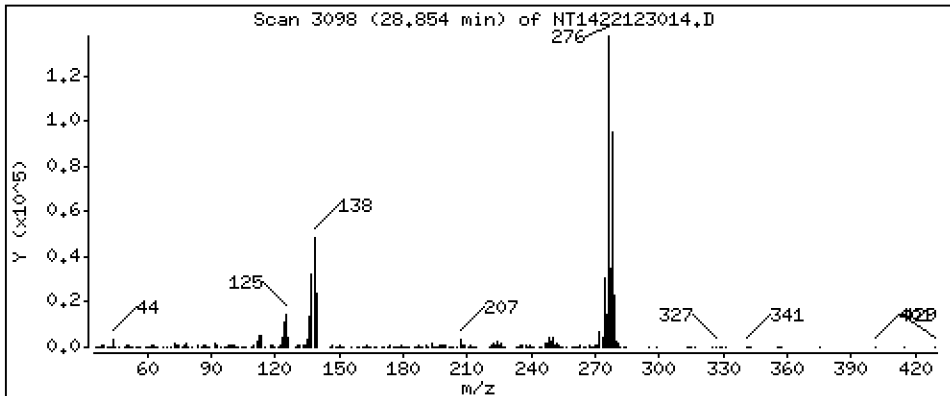
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 4,935 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

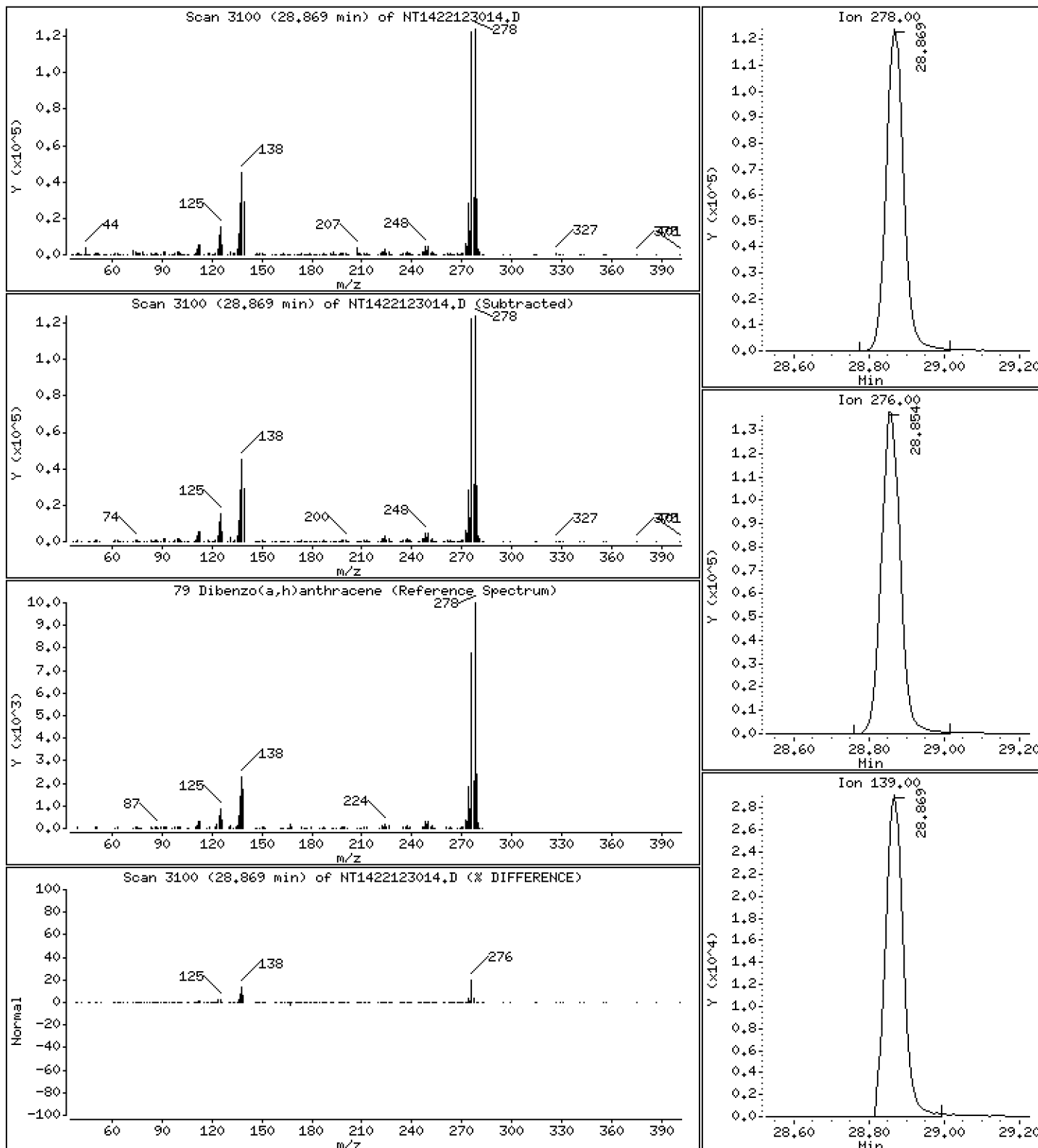
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 4,786 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

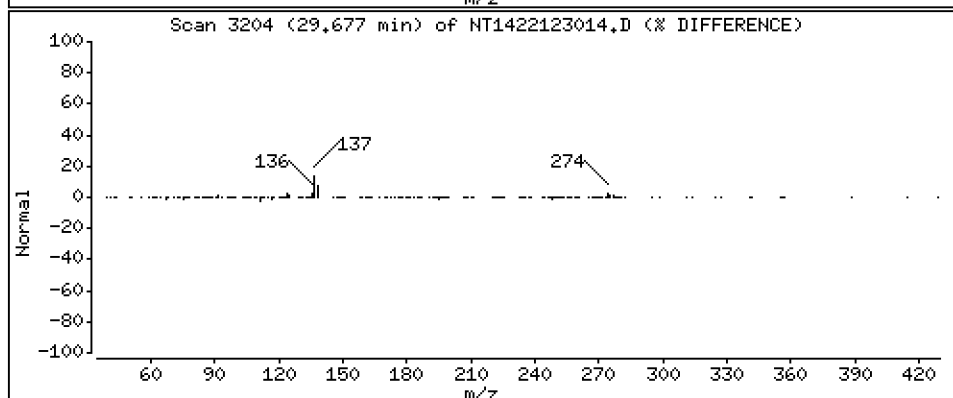
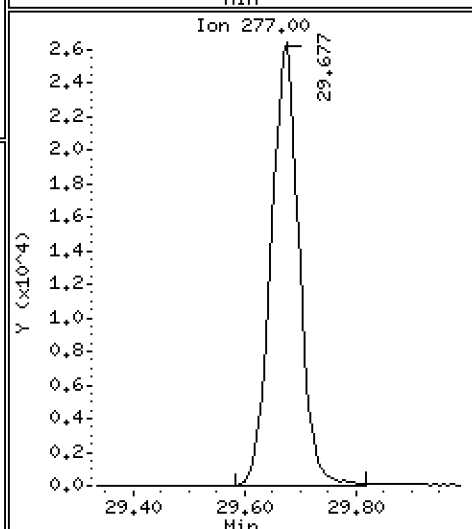
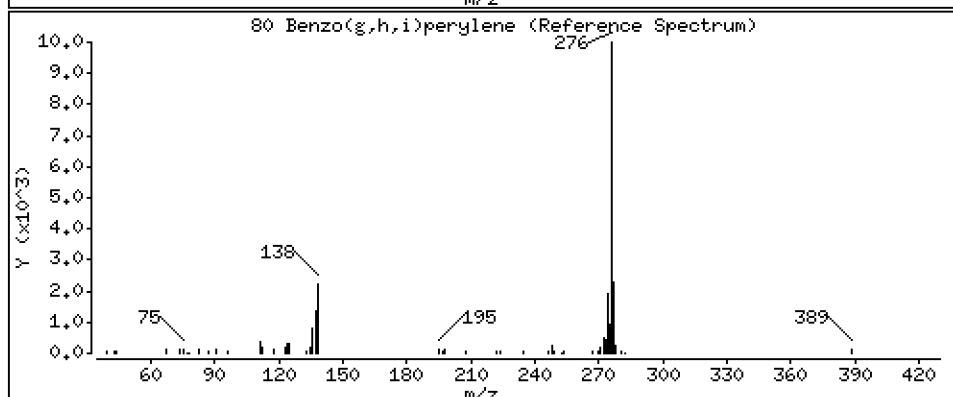
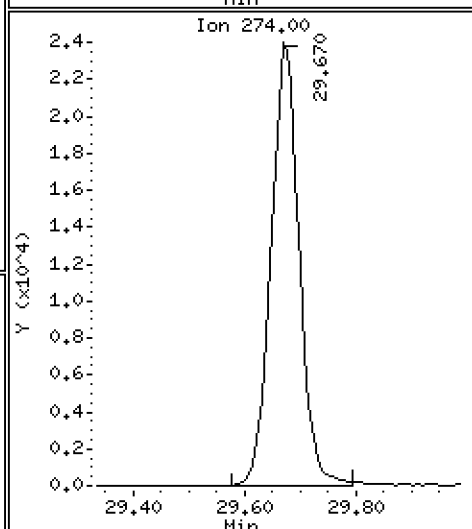
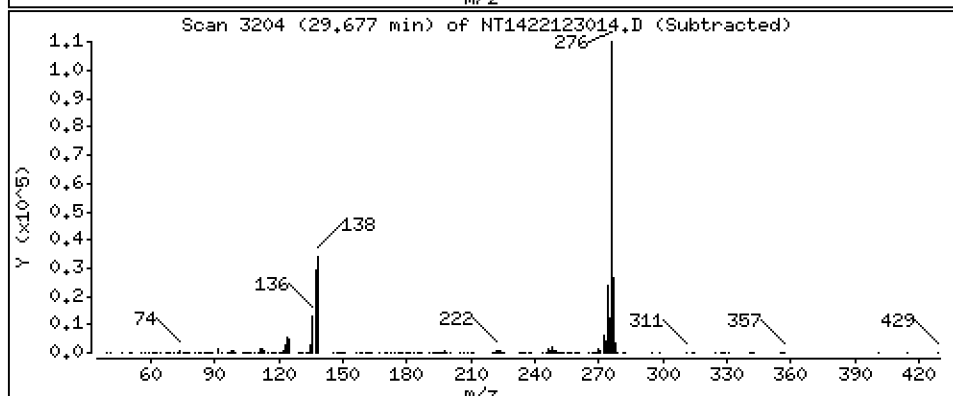
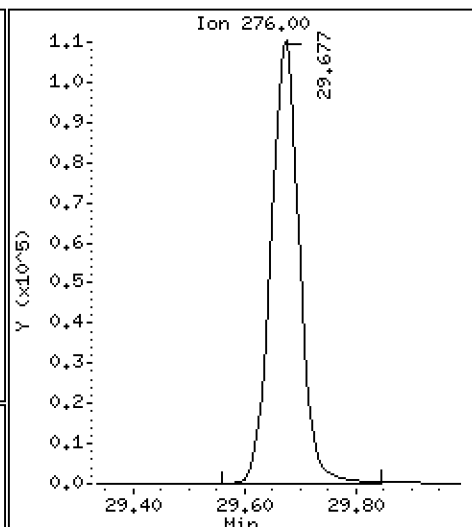
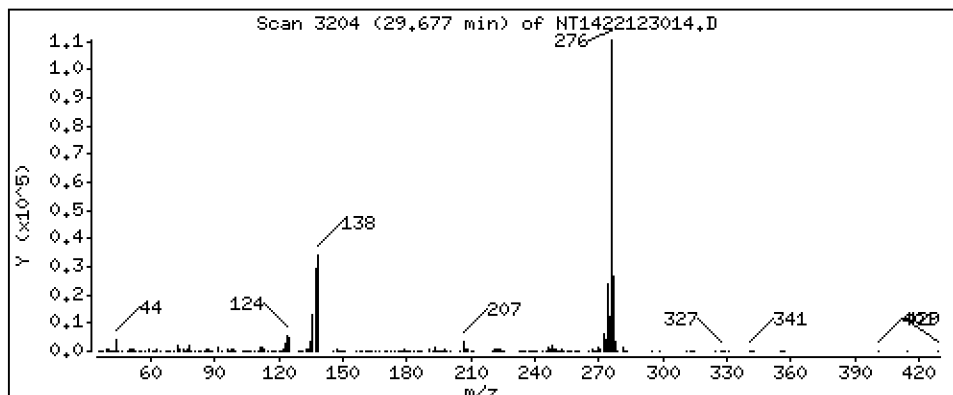
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 4,899 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

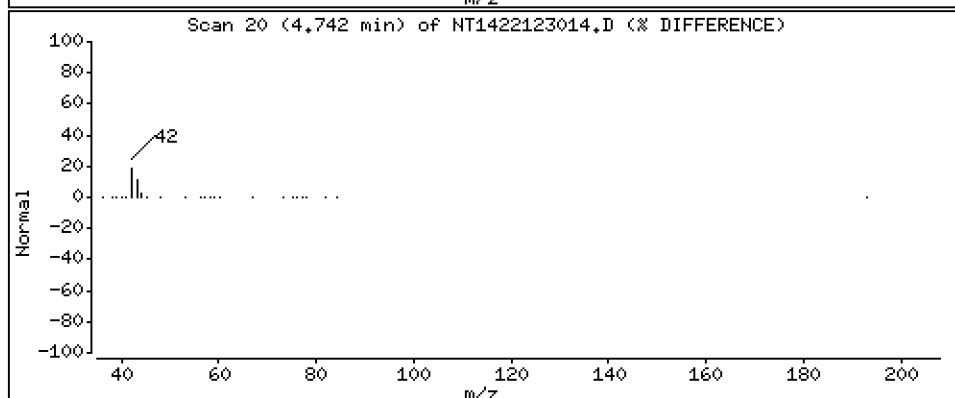
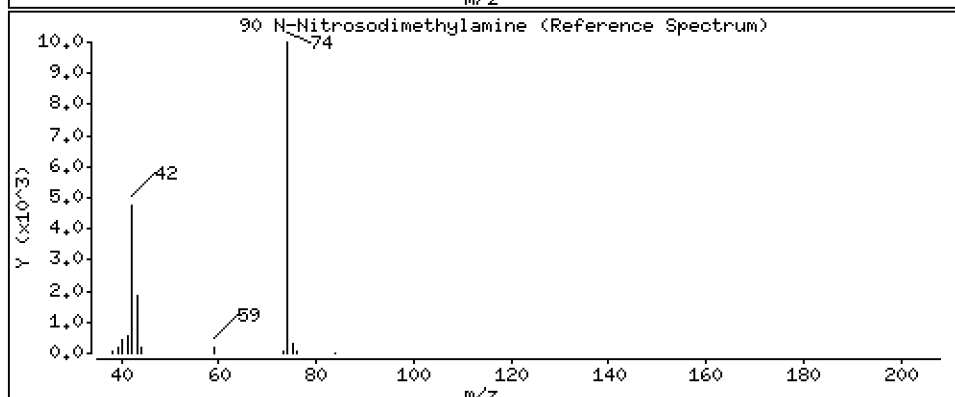
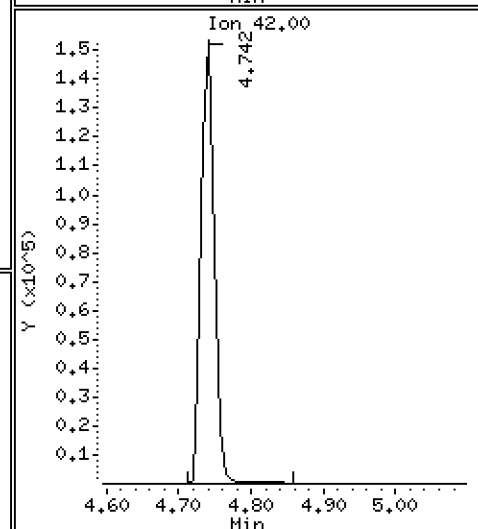
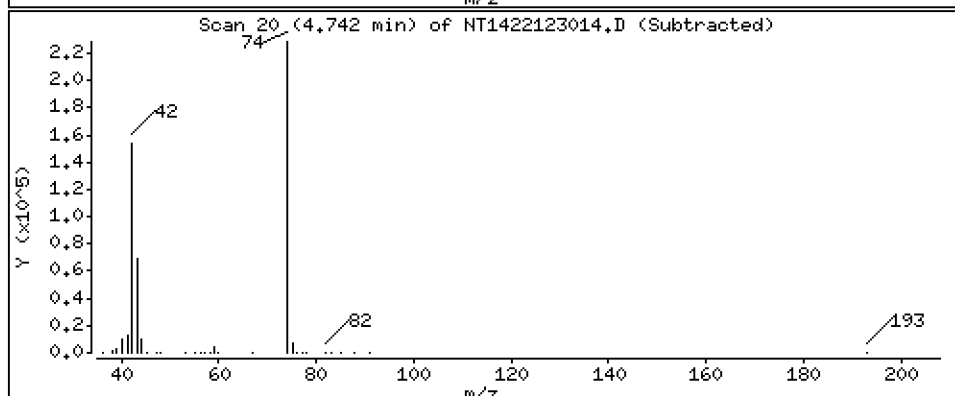
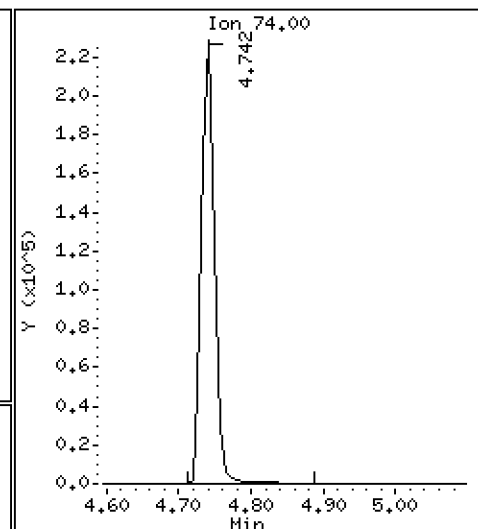
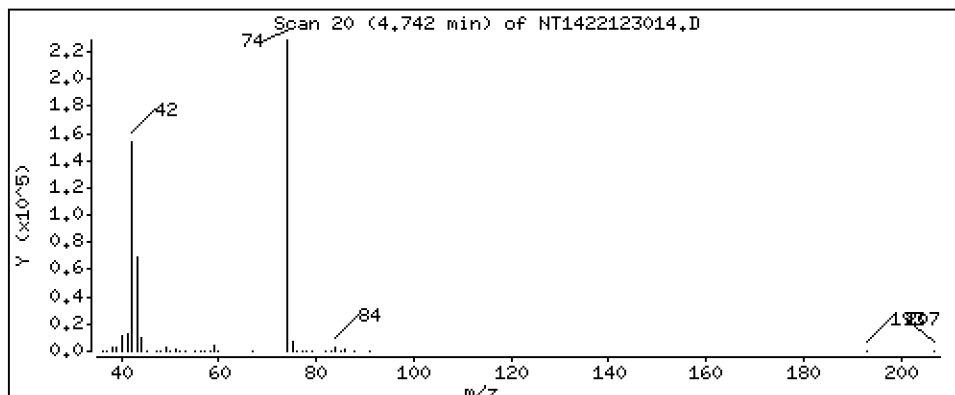
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 9,944 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

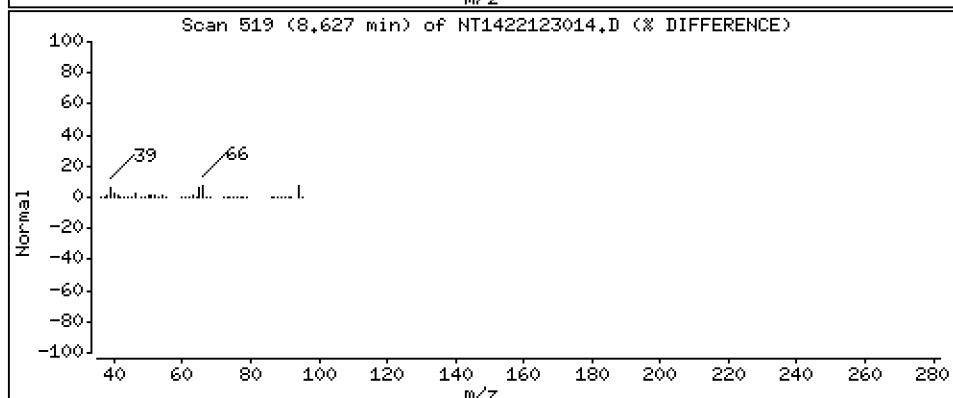
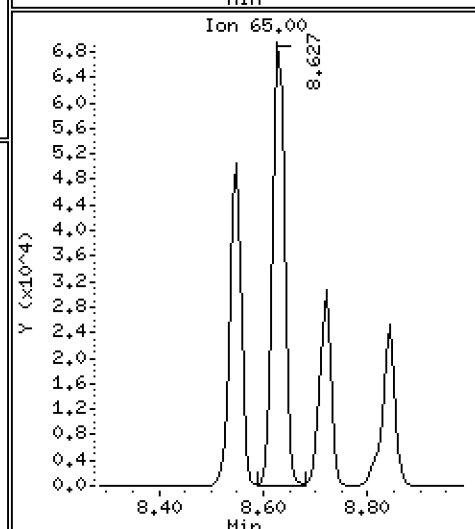
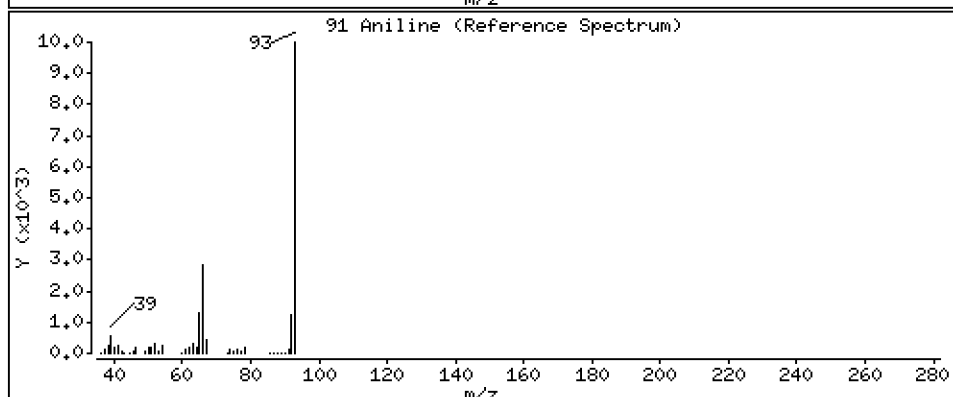
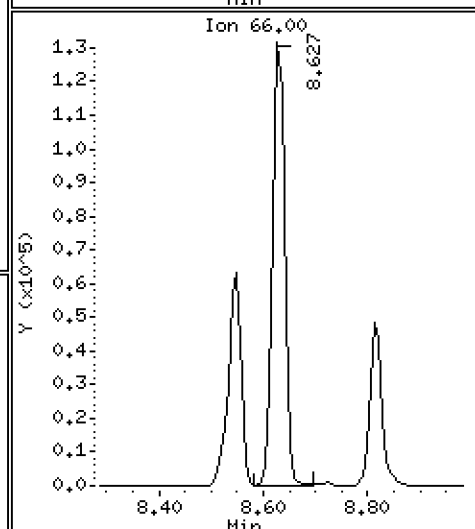
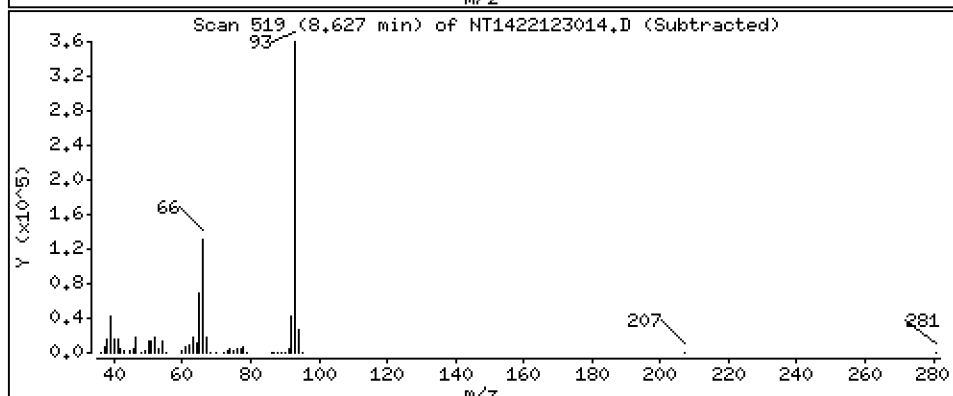
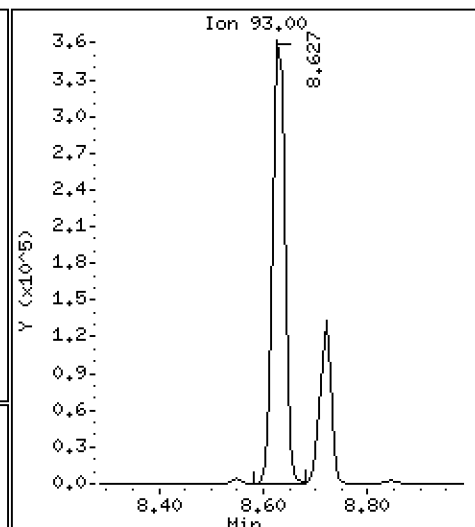
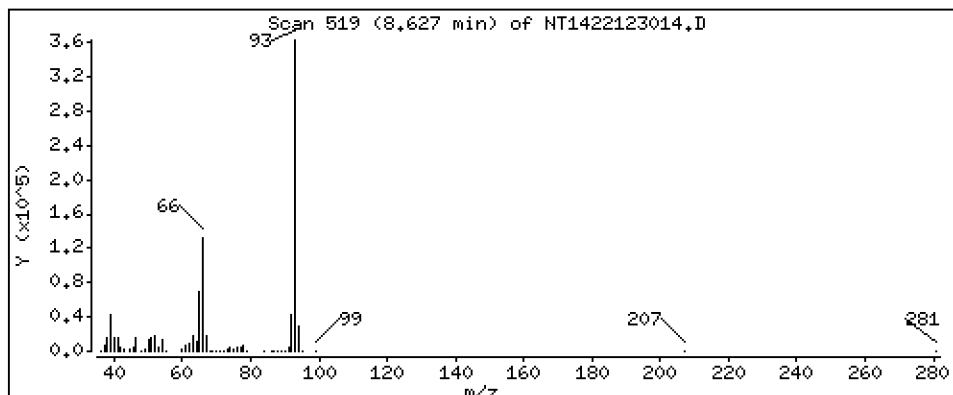
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 9,711 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

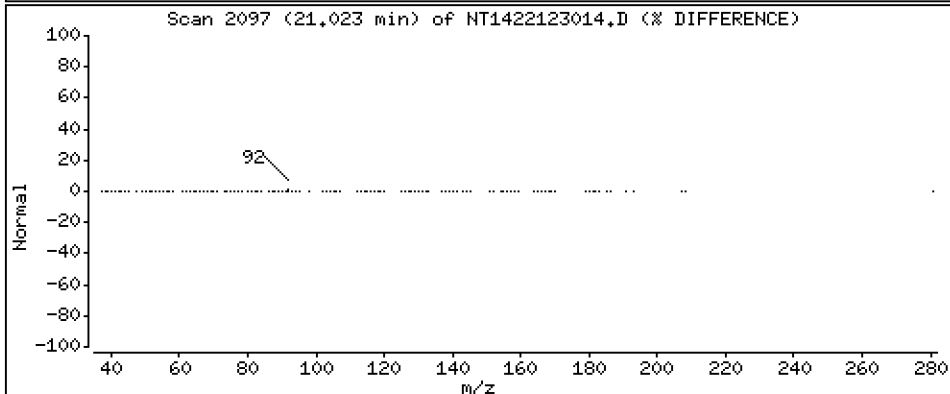
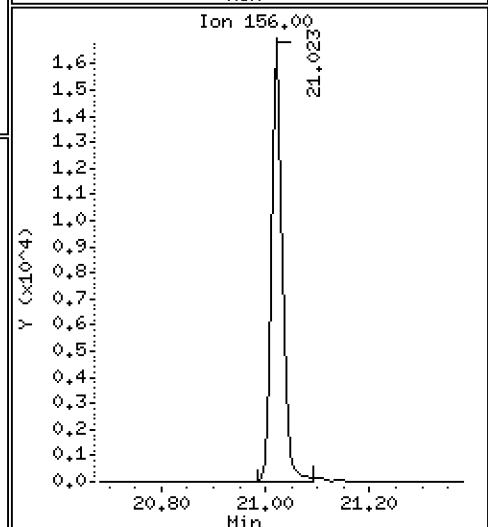
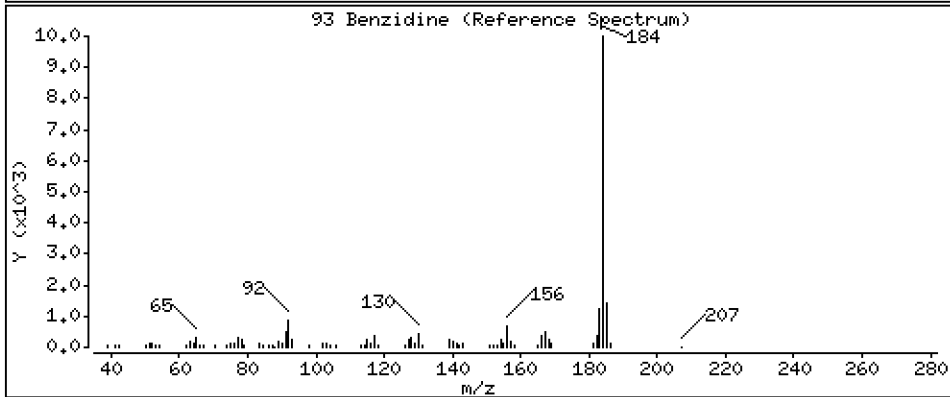
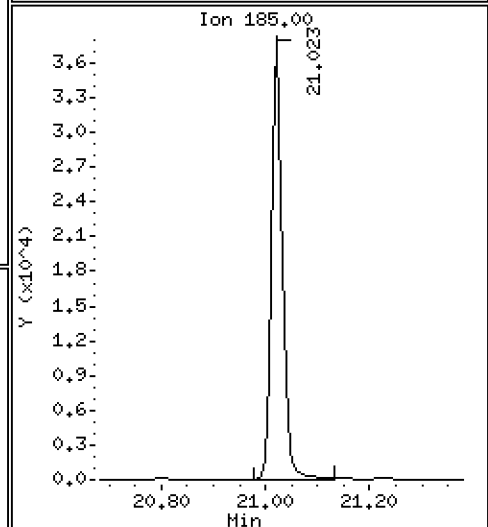
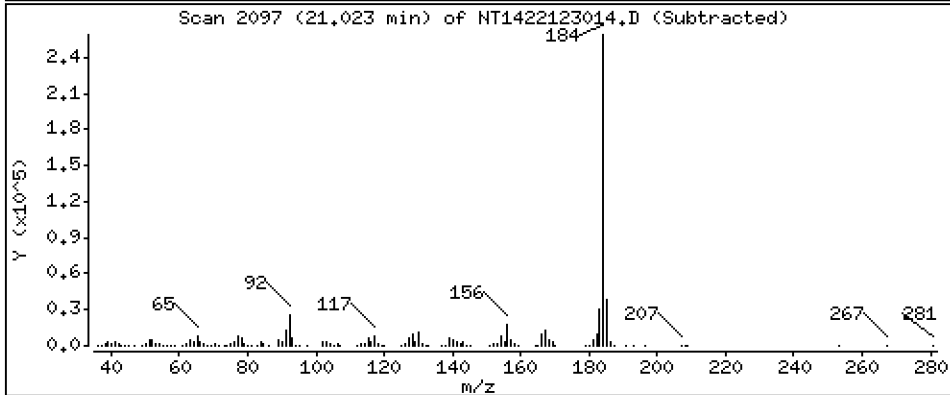
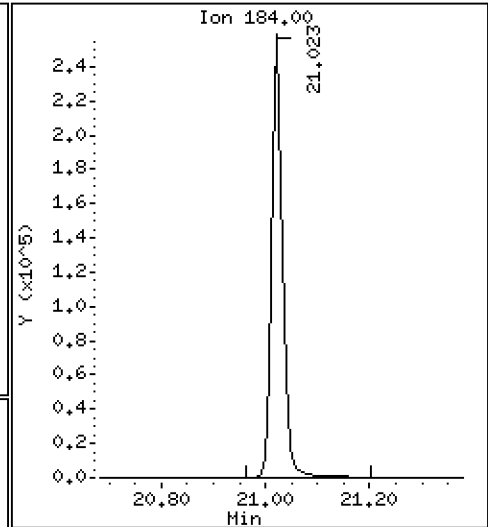
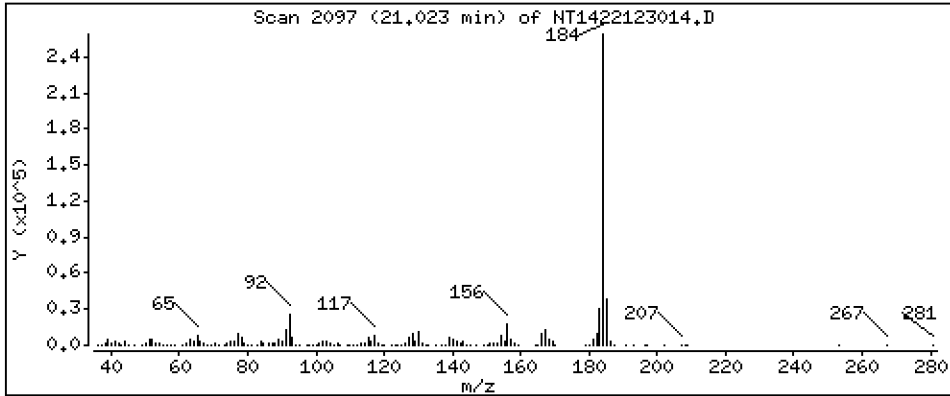
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 8,319 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

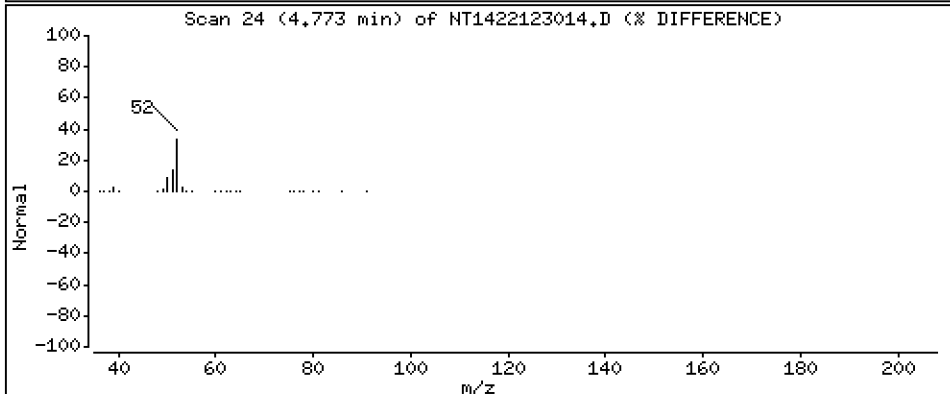
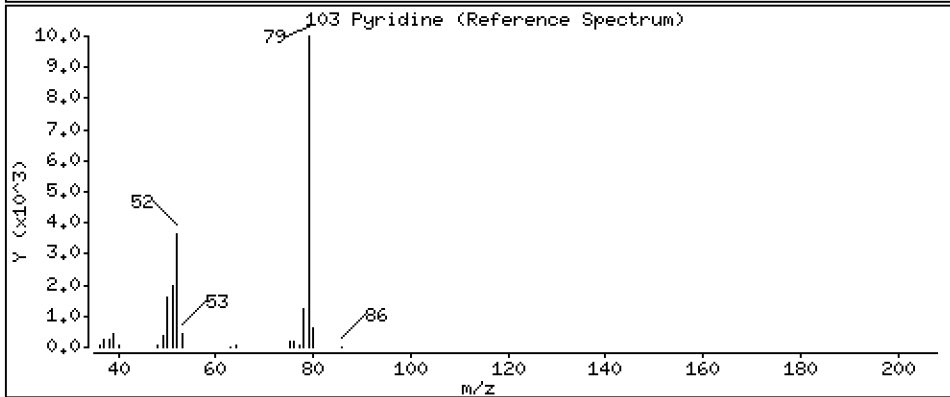
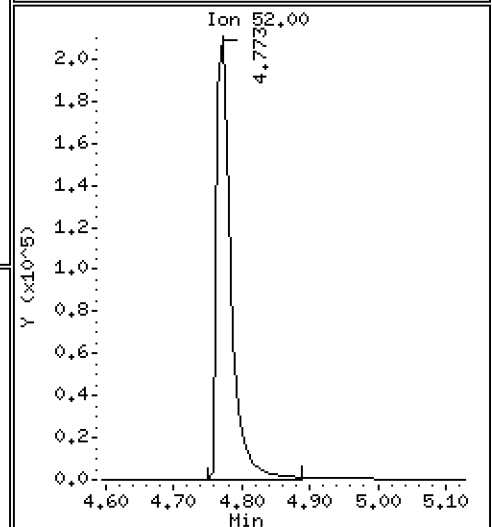
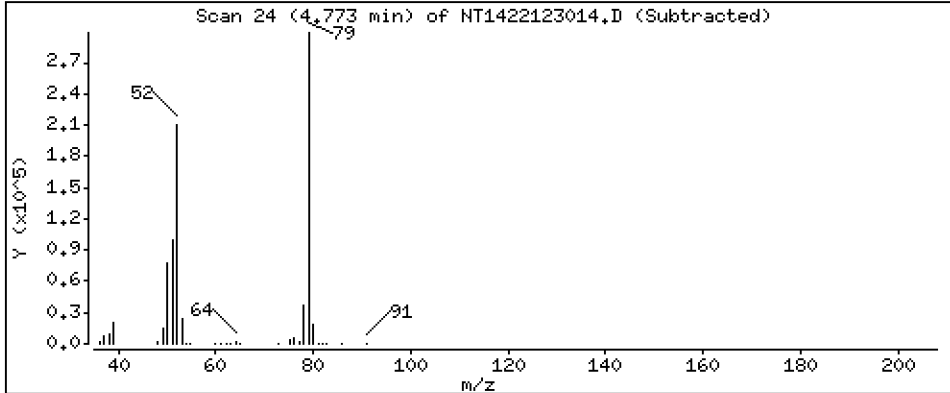
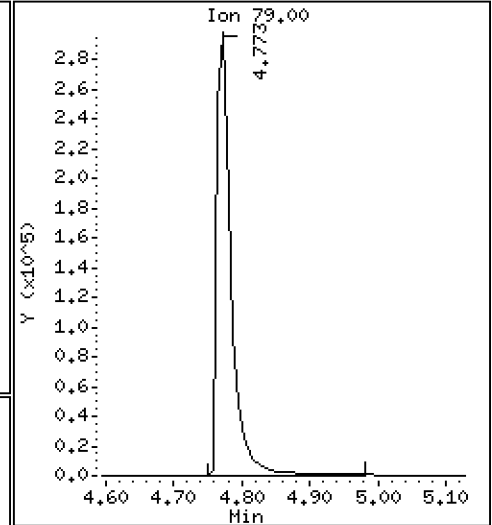
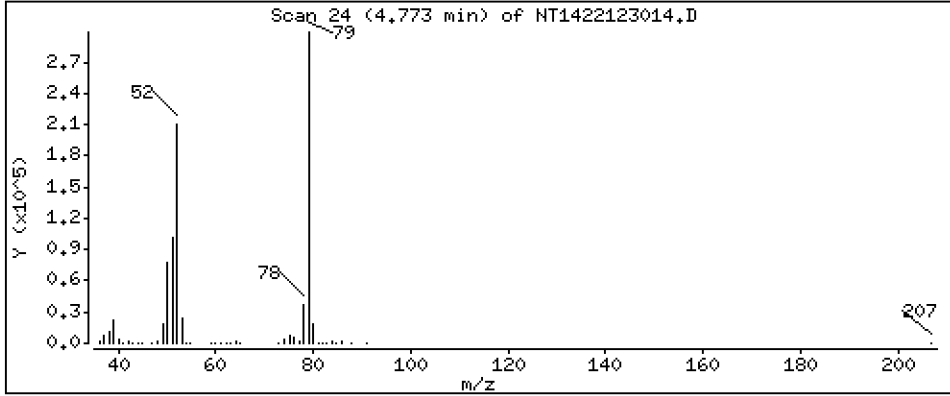
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 4,949 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

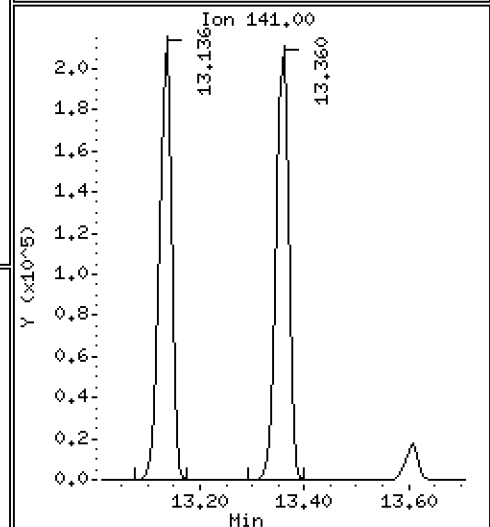
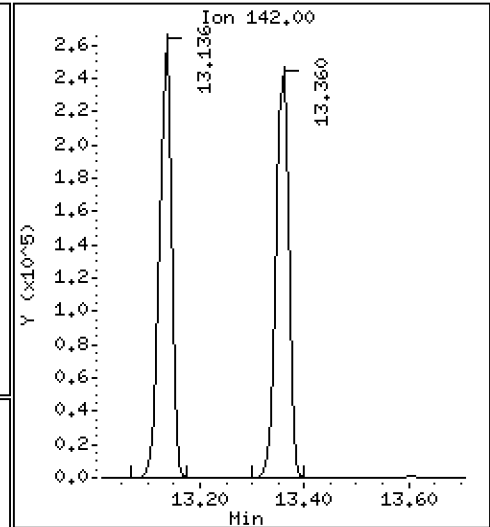
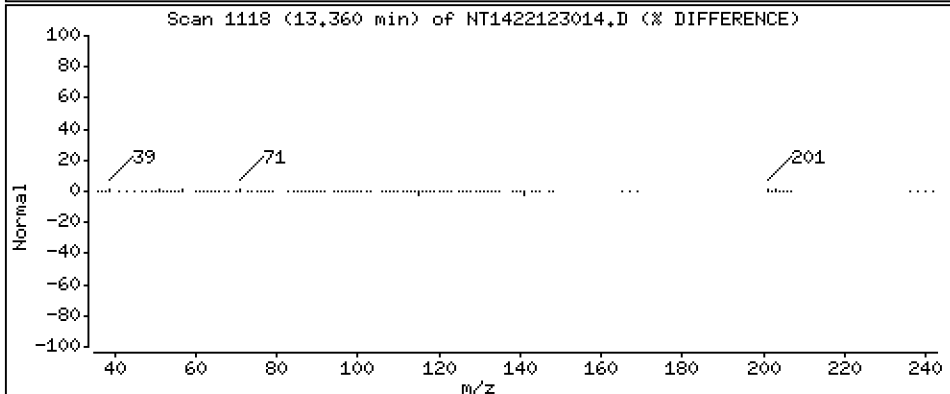
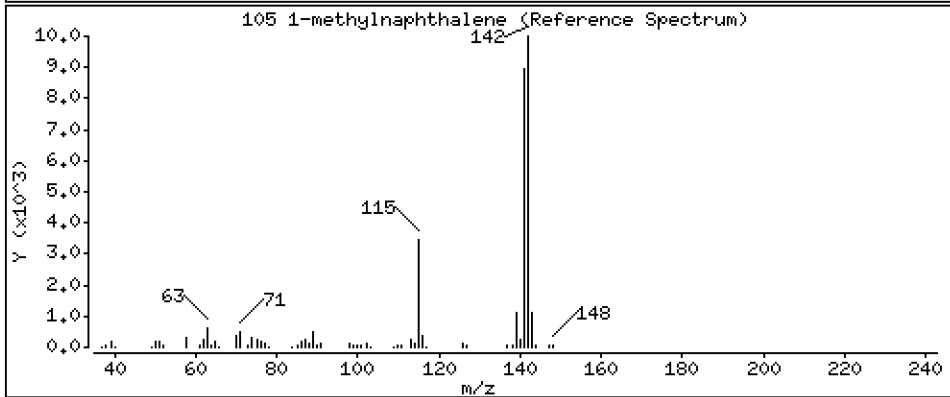
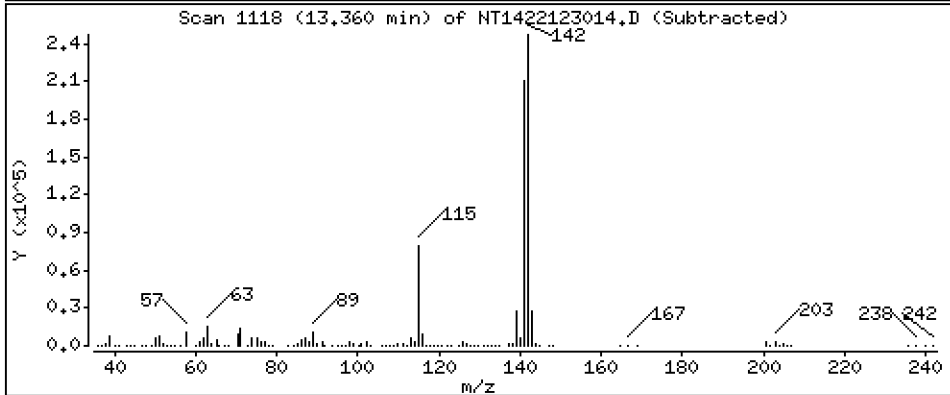
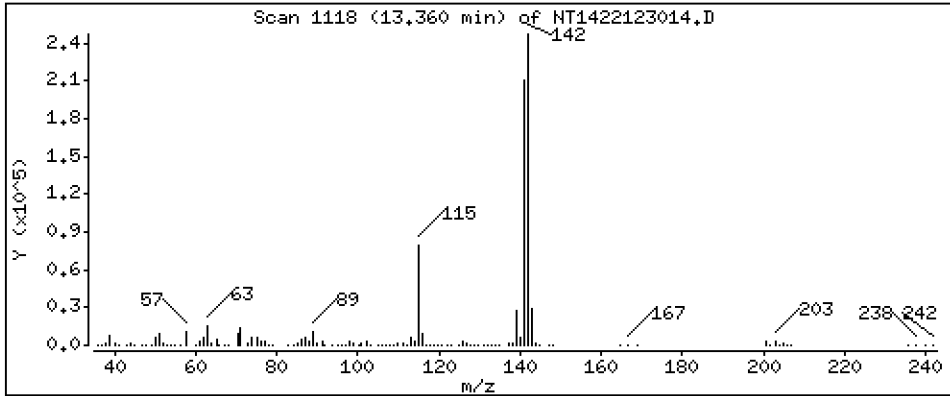
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,706 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

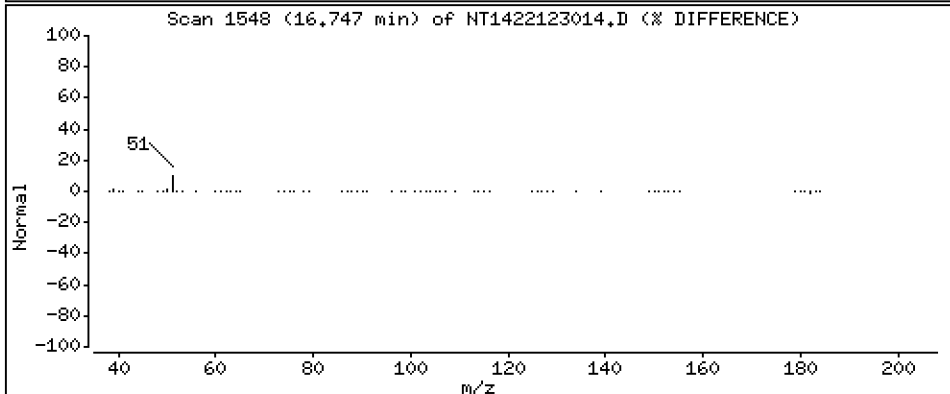
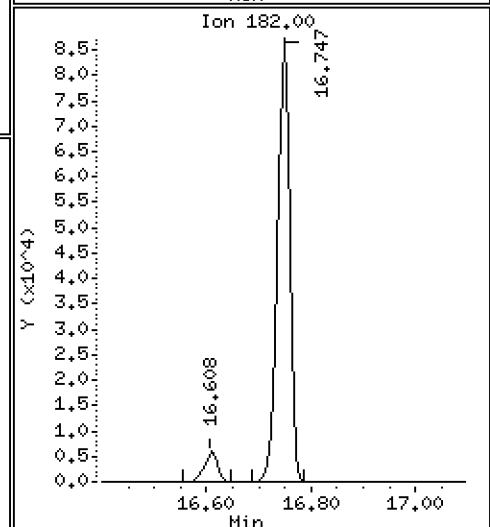
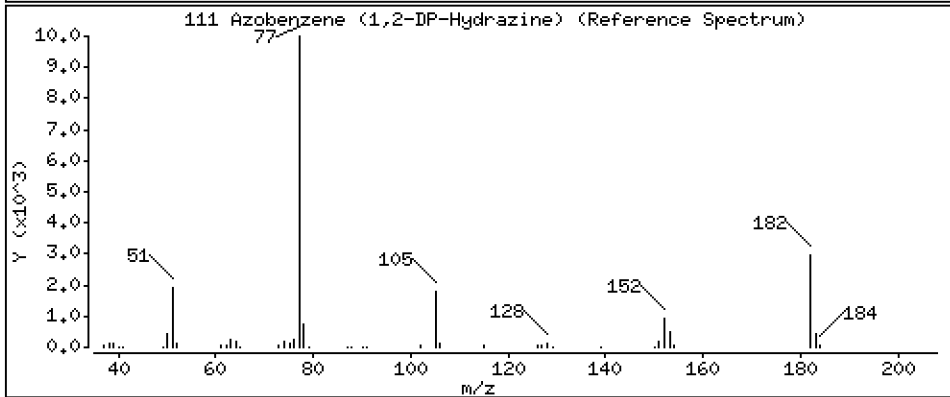
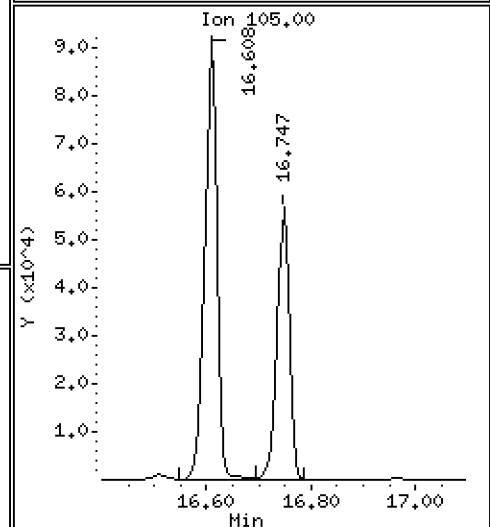
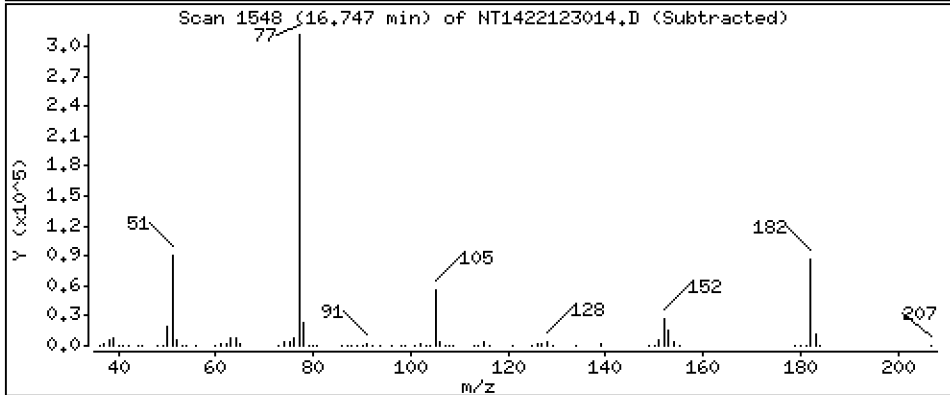
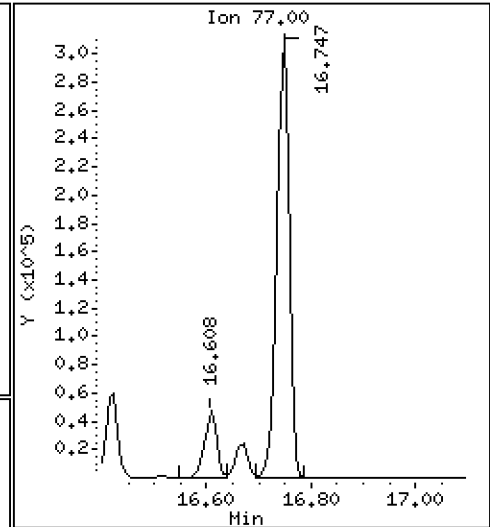
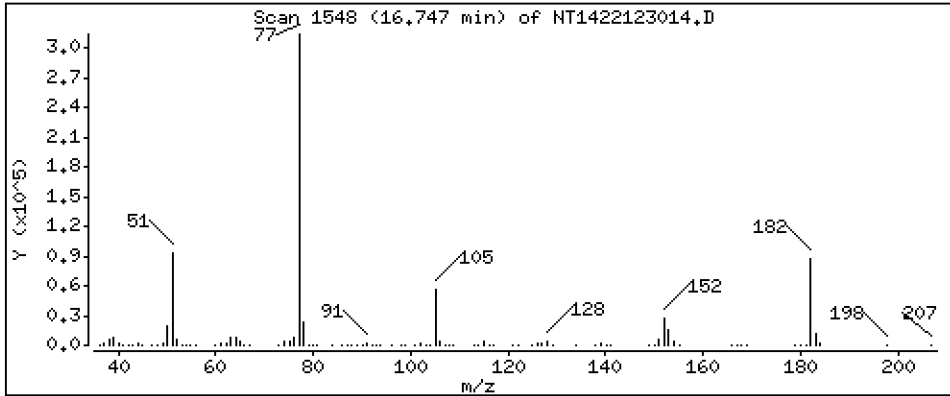
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 4.948 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

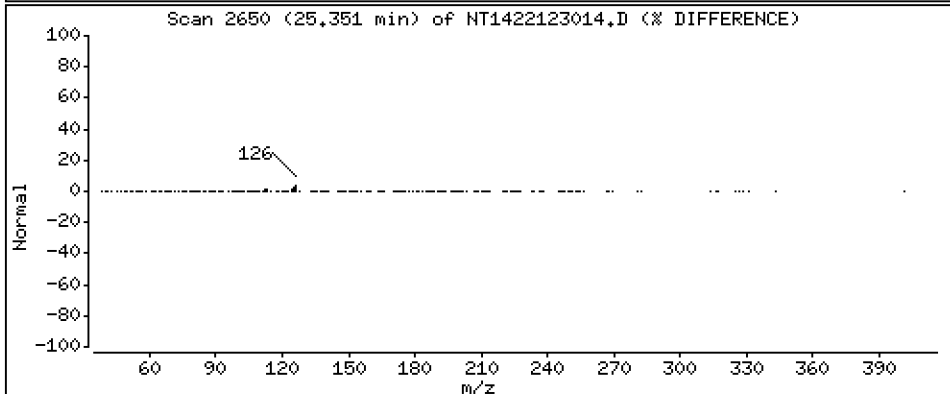
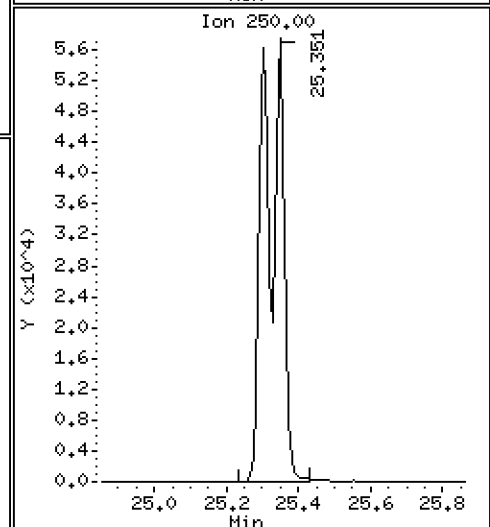
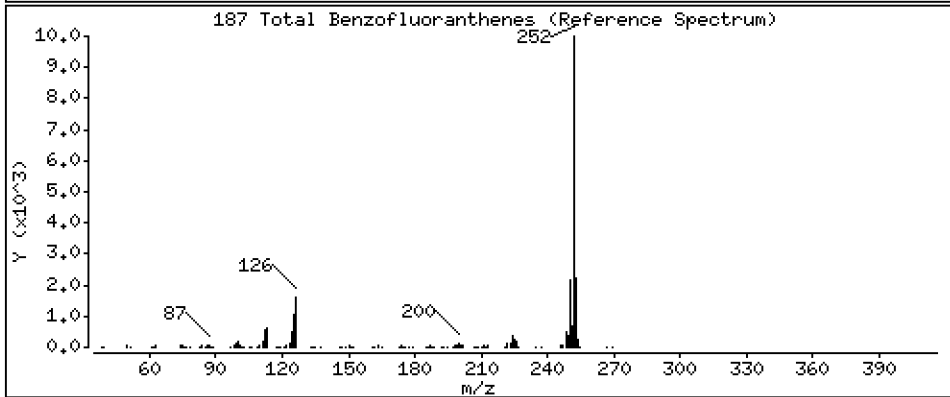
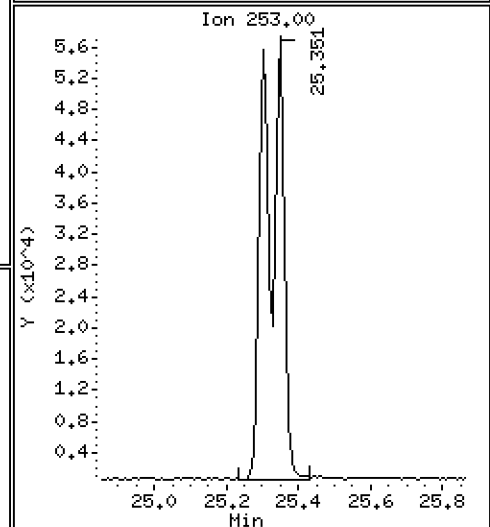
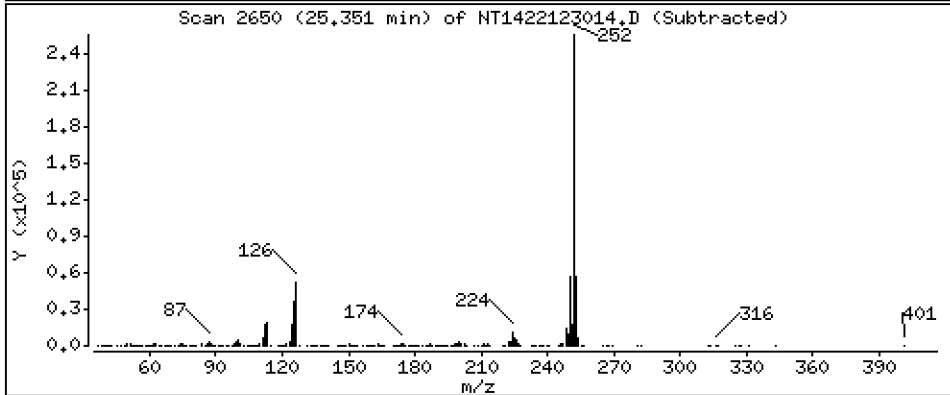
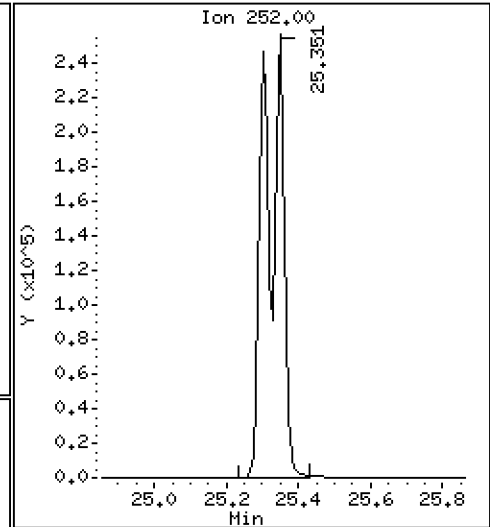
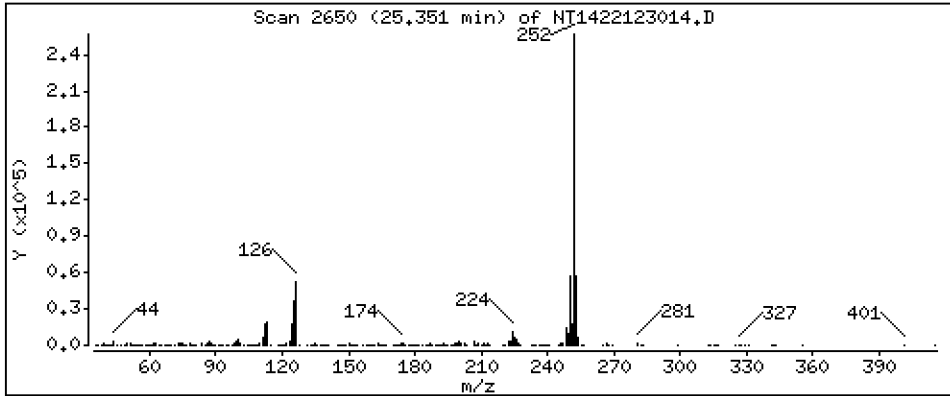
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 9,393 ug/mL



Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

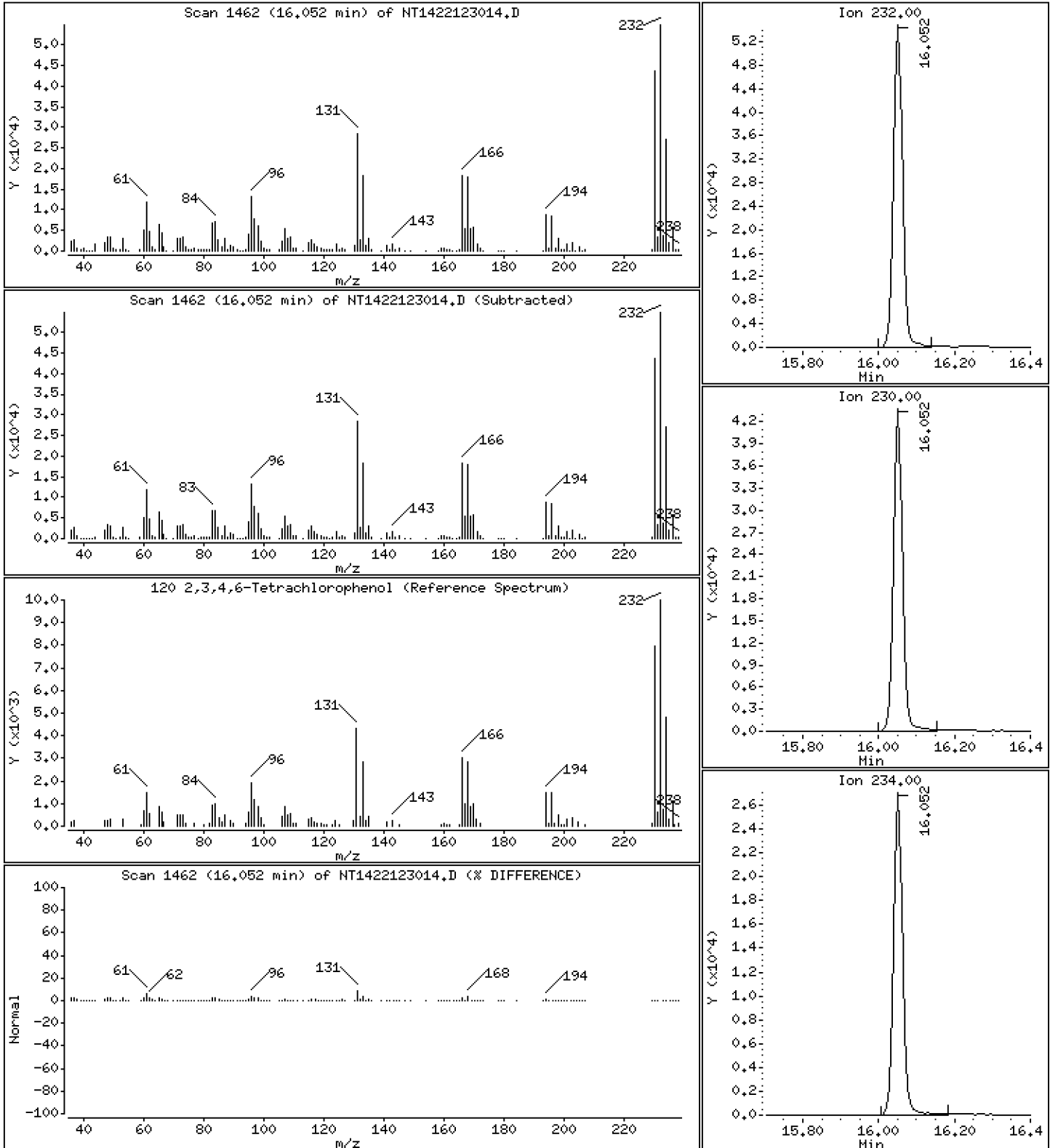
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,531 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D
 Lab Smp Id: SKL0355-ICV2
 Inj Date : 30-DEC-2022 15:53 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-ICV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.935	6.934	(0.755)	308210	7.37328	7.373
\$ 2 Phenol-d5	99		8.526	8.526	(0.928)	385154	7.45579	7.456
3 Phenol	94		8.550	8.549	(0.931)	280303	4.77530	4.775
\$ 5 2-Chlorophenol-d4	132		8.812	8.820	(0.960)	314158	7.24118	7.241
4 Bis(2-Chloroethyl)ether	93		8.719	8.719	(0.949)	190620	4.71419	4.714
6 2-Chlorophenol	128		8.843	8.843	(0.963)	223136	4.68309	4.683
7 1,3-Dichlorobenzene	146		9.122	9.121	(0.993)	230118	4.55456	4.555
* 8 1,4-Dichlorobenzene-d4	152		9.184	9.183	(1.000)	130476	4.00000	
9 1,4-Dichlorobenzene	146		9.215	9.214	(1.003)	217862	4.55156	4.552
\$ 10 1,2-Dichlorobenzene-d4	152		9.548	9.548	(1.040)	138662	4.67622	4.676
12 1,2-Dichlorobenzene	146		9.572	9.571	(1.042)	217027	4.62327	4.623
11 Benzyl alcohol	108		9.447	9.447	(1.029)	129608	4.95987	4.960
14 2,2'-oxybis(1-Chloropropane)	121		9.758	9.758	(1.063)	50798	3.73248	3.732
13 2-Methylphenol	108		9.673	9.672	(1.053)	207206	4.85794	4.858
17 Hexachloroethane	117		10.177	10.177	(1.108)	84099	4.77717	4.777
16 N-Nitroso-di-n-propylamine	70		10.014	10.014	(1.090)	133994	5.15699	5.157
15 4-Methylphenol	108		9.944	9.944	(1.083)	220305	4.89616	4.896
\$ 18 Nitrobenzene-d5	82		10.278	10.285	(0.879)	204953	5.00970	5.010
19 Nitrobenzene	77		10.317	10.316	(0.883)	196817	4.84408	4.844
20 Isophorone	82		10.767	10.774	(0.921)	264091	5.09989	5.100
21 2-Nitrophenol	139		10.953	10.953	(0.937)	121522	4.70002	4.700
22 2,4-Dimethylphenol	107		11.000	10.999	(0.941)	401339	9.46431	9.464
23 Bis(2-Chloroethoxy)methane	93		11.201	11.201	(0.958)	187236	4.64788	4.648
24 Benzoic acid	105		11.193	11.201	(0.958)	466969	17.3883	17.39
25 2,4-Dichlorophenol	162		11.410	11.410	(0.976)	358230	10.0218	10.02
26 1,2,4-Trichlorobenzene	180		11.604	11.604	(0.993)	172538	4.46408	4.464
* 27 Naphthalene-d8	136		11.689	11.688	(1.000)	484478	4.00000	
28 Naphthalene	128		11.727	11.735	(1.003)	545783	4.57764	4.578
29 4-Chloroaniline	127		11.851	11.858	(1.014)	478513	9.73195	9.732
30 Hexachlorobutadiene	225		12.098	12.098	(1.035)	86983	4.53587	4.536
31 4-Chloro-3-methylphenol	107		12.810	12.818	(1.096)	337936	10.0182	10.02
32 2-Methylnaphthalene	142		13.135	13.135	(1.124)	409647	4.68397	4.684
33 Hexachlorocyclopentadiene	237		13.607	13.607	(0.888)	191298	9.67948	9.679

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.754	(0.897)	214549	9.83188	9.832	
35 2,4,5-Trichlorophenol	196		13.824	13.824	(0.902)	248250	9.85697	9.857	
§ 36 2-Fluorobiphenyl	172		13.917	13.916	(0.908)	407699	4.63803	4.638	
37 2-Chloronaphthalene	162		14.134	14.133	(0.922)	346005	4.62692	4.627	
38 2-Nitroaniline	65		14.381	14.389	(0.938)	209733	10.6678	10.67	
39 Dimethylphthalate	163		14.815	14.822	(0.967)	347899	4.71850	4.718	
40 Acenaphthylene	152		15.008	15.008	(0.979)	537414	4.71315	4.713	
41 2,6-Dinitrotoluene	165		14.954	14.954	(0.976)	165174	9.92663	9.927	
* 42 Acenaphthene-d10	164		15.325	15.325	(1.000)	261445	4.00000		
43 3-Nitroaniline	138		15.240	15.240	(0.994)	200585	9.91816	9.918	
44 Acenaphthene	153		15.387	15.394	(1.004)	326255	4.61321	4.613	
45 2,4-Dinitrophenol	184		15.449	15.456	(1.008)	259341	17.6160	17.62	
46 Dibenzofuran	168		15.719	15.719	(1.026)	482191	4.54662	4.547	
47 4-Nitrophenol	109		15.542	15.549	(1.014)	93362	9.44134	9.441	
48 2,4-Dinitrotoluene	165		15.766	15.765	(1.029)	225728	9.88745	9.887	
50 Diethylphthalate	149		16.284	16.283	(1.063)	497843	4.96768	4.968	
49 Fluorene	166		16.431	16.438	(1.072)	557395	4.94047	4.940	
51 4-Chlorophenyl-phenylether	204		16.423	16.423	(1.072)	257743	4.66626	4.666	
52 4-Nitroaniline	138		16.508	16.515	(1.077)	239364	9.61614	9.616	
53 4,6-Dinitro-2-methylphenol	198		16.608	16.615	(0.904)	347239	19.1944	19.19	
54 N-Nitrosodiphenylamine	169		16.670	16.669	(0.907)	327227	4.61933	4.619	
§ 55 2,4,6-Tribromophenol	330		16.970	16.970	(1.107)	86618	6.81831	6.818	
56 4-Bromophenyl-phenylether	248		17.425	17.433	(0.949)	123400	4.60038	4.600	
57 Hexachlorobenzene	284		17.750	17.749	(0.966)	132817	4.51201	4.512	
58 Pentachlorophenol	266		18.098	18.106	(0.985)	118918	8.91327	8.913	
* 59 Phenanthrene-d10	188		18.369	18.376	(1.000)	412822	4.00000		
60 Phenanthrene	178		18.423	18.423	(1.003)	494198	4.59143	4.591	
61 Anthracene	178		18.516	18.516	(1.008)	501351	4.87916	4.879	
62 Carbazole	167		18.833	18.841	(1.025)	464657	4.67769	4.678	
63 Di-n-butylphthalate	149		19.630	19.630	(1.069)	560630	4.80679	4.807	
64 Fluoranthene	202		20.798	20.806	(0.889)	546633	4.86276	4.863	
65 Pyrene	202		21.224	21.231	(0.907)	572281	4.84197	4.842	
§ 66 Terphenyl-d14	244		21.503	21.510	(0.919)	397869	4.74754	4.748	
67 Butylbenzylphthalate	149		22.424	22.423	(0.958)	220809	4.86864	4.869	
68 Benzo(a)anthracene	228		23.384	23.384	(0.999)	507176	4.79555	4.796	
* 69 Chrysene-d12	240		23.407	23.415	(1.000)	349122	4.00000		
70 3,3'-Dichlorobenzidine	252		23.330	23.329	(0.997)	396605	12.2501	12.25	
71 Chrysene	228		23.454	23.461	(1.002)	468523	4.68997	4.690	
72 bis(2-Ethylhexyl)phthalate	149		23.438	23.446	(0.959)	317067	5.46880	5.469	
* 134 Di-n-octylphthalate-d4	153		24.437	24.437	(1.000)	522046	4.00000		
73 Di-n-octylphthalate	149		24.445	24.452	(1.000)	569094	4.54137	4.541	
74 Benzo(b)fluoranthene	252		25.304	25.311	(0.969)	481563	4.68412	4.684	
75 Benzo(k)fluoranthene	252		25.350	25.358	(0.971)	495263	4.73313	4.733	
76 Benzo(a)pyrene	252		25.978	25.985	(0.995)	411908	4.81967	4.820	
* 77 Perylene-d12	264		26.102	26.101	(1.000)	327130	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.853	28.869	(1.105)	479486	4.93535	4.935	
79 Dibenzo(a,h)anthracene	278		28.869	28.876	(1.106)	395113	4.78585	4.786	
80 Benzo(g,h,i)perylene	276		29.677	29.684	(1.137)	398711	4.89891	4.899	
90 N-Nitrosodimethylamine	74		4.741	4.749	(0.516)	286265	9.94372	9.944	
91 Aniline	93		8.627	8.634	(0.939)	554998	9.71062	9.711	
93 Benzidine	184		21.023	21.030	(0.898)	368474	8.31946	8.319	
103 Pyridine	79		4.772	4.780	(0.520)	452701	4.94876	4.949	
105 1-methylnaphthalene	142		13.360	13.359	(1.143)	395432	4.70577	4.706	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.747	16.746	(1.093)	480358	4.94760	4.948	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	933646	9.39348	9.393
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86602	4.53059	4.531

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123014.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	151013	75507	302026	130476	-13.60
27 Naphthalene-d8	553510	276755	1107020	484478	-12.47
42 Acenaphthene-d10	305411	152706	610822	261445	-14.40
59 Phenanthrene-d10	491708	245854	983416	412822	-16.04
69 Chrysene-d12	424740	212370	849480	349122	-17.80
134 Di-n-octylphthala	684951	342476	1369902	522046	-23.78
77 Perylene-d12	395150	197575	790300	327130	-17.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123014.D

Lab ID: SKL0355-ICV2
nt14.i, 20221230.b\ABN.m, 30-DEC-2022 15:53

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

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



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123049.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV4

Injection Time: 13:17

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.7	1.7995200	1.6801430		-6.6	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1354090		-8.4	+/-20
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3781420		-5.7	+/-20
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4156250		-8.6	+/-20
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3450740		-8.3	+/-20
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3214800		-8.2	+/-20
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7828800		-2.3	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.7	0.4172325	0.3900475		-6.5	+/-20
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2453830		-4.8	+/-20
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4696673		-13.0	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7987206		0.3	+/-20
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3401830		-2.8	+/-20
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3275726		-2.4	+/-20
Isophorone	A	5.0000	5.2	0.4275424	0.4488704		5.0	+/-20
2-Nitrophenol	A	5.0000	5.2	0.2064997	0.2249104		4.8	+/-20
2,4-Dimethylphenol	A	10.000	10.4	0.3501131	0.3625637		3.6	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3076842		-7.5	+/-20
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3079848		4.4	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2892532		-9.4	+/-20
Naphthalene	A	5.0000	4.6	0.9843833	0.9078499		-7.8	+/-20
Benzoic acid	A	20.000	15.8	0.1508906	0.1739713		-21.3	+/-20 *
4-Chloroaniline	A	10.000	10.3	0.4059568	0.4162417		2.5	+/-20
Hexachlorobutadiene	A	5.0000	4.6	0.1583286	0.1461855		-7.7	+/-20
4-Chloro-3-Methylphenol	A	10.000	10.2	0.2785027	0.2842360		2.1	+/-20
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6907626		-4.3	+/-20
Hexachlorocyclopentadiene	A	10.000	4.8	0.3023695	0.1447796		-52.1	+/-20 *
2,4,6-Trichlorophenol	A	10.000	10.5	0.3338641	0.3513387		5.2	+/-20
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3861223		0.2	+/-20
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0635150		-7.0	+/-20
2-Nitroaniline	A	10.000	10.8	0.3007956	0.3242350		7.8	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123049.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV4

Injection Time: 13:17

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6524400		-5.3	+/-20
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0813340		-4.1	+/-20
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2561130		0.6	+/-20
Acenaphthene	A	5.0000	4.6	1.0820160	0.9971221		-7.8	+/-20
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3048378		-1.5	+/-20
2,4-Dinitrophenol	A	20.000	14.9	0.1831718	0.1666727		-25.5	+/-20 *
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4938400		-7.9	+/-20
4-Nitrophenol	A	10.000	8.9	0.1384031	0.1342845		-11.1	+/-20
2,4-Dinitrotoluene	A	10.000	9.8	0.3492859	0.3436218		-1.6	+/-20
Fluorene	A	5.0000	5.1	1.7261350	1.7561080		1.7	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.8	0.8450792	0.8091917		-4.2	+/-20
Diethyl phthalate	A	5.0000	5.1	1.5332690	1.5777480		2.9	+/-20
4-Nitroaniline	A	10.000	9.3	0.3413732	0.3539277		-7.0	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	17.2	0.1530278	0.1498780		-14.1	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6513109		-5.1	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455477		-5.5	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2590127		-9.2	+/-20
Pentachlorophenol	A	10.000	6.8	0.1128364	0.0871737		-31.8	+/-20 *
Phenanthrene	A	5.0000	4.5	1.0429190	0.9427209		-9.6	+/-20
Anthracene	A	5.0000	4.8	0.9956202	0.9643179		-3.1	+/-20
Carbazole	A	5.0000	4.7	0.9624945	0.9015232		-6.3	+/-20
Di-n-Butylphthalate	A	5.0000	5.0	1.0394700	1.1338500		0.1	+/-20
Fluoranthene	A	5.0000	4.6	1.2879410	1.1971170		-7.1	+/-20
Pyrene	A	5.0000	4.6	1.3541610	1.2361520		-8.7	+/-20
Butylbenzylphthalate	A	5.0000	5.1	0.4650792	0.5260304		1.2	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1557250		-4.6	+/-20
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4182666		12.7	+/-20
Chrysene	A	5.0000	4.6	1.1445730	1.0481760		-8.4	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.0	0.4442323	0.4451666		0.2	+/-20
Di-n-Octylphthalate	A	5.0000	4.4	0.9601702	0.8388549		-12.6	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123049.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV4

Injection Time: 13:17

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.2	1.2153330	1.2442360		2.4	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0609490		1.5	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	3.2	1.1879490	0.7527935		-36.6	+/-20 *
Dibenzo(a,h)anthracene	A	5.0000	3.4	1.0094890	0.6813818		-32.5	+/-20 *
Benzo(g,h,i)perylene	A	5.0000	2.5	0.9951726	0.5009027		-49.7	+/-20 *
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6680471		-3.7	+/-20
2-Fluorophenol	A	7.5000	7.39	1.2814900	1.2619160		-1.5	+/-20
Phenol-d5	A	7.5000	7.43	1.5836890	1.5681240		-1.0	+/-20
2-Chlorophenol-d4	A	7.5000	7.41	1.3300510	1.3136660		-1.2	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.69	0.9090592	0.8526335		-6.2	+/-20
Nitrobenzene-d5	A	5.0000	5.09	0.3377760	0.3441254		1.9	+/-20
2-Fluorobiphenyl	A	5.0000	4.71	1.3448860	1.2660660		-5.9	+/-20
2,4,6-Tribromophenol	A	7.5000	6.91	0.1844845	0.1790322		-7.9	+/-20
p-Terphenyl-d14	A	5.0000	4.44	0.9601842	0.8525341		-11.2	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230B.B\NT1422123049.D

Date: 31-DEC-2022 13:17

Client ID:

Sample Info: SKL0355-ICV4

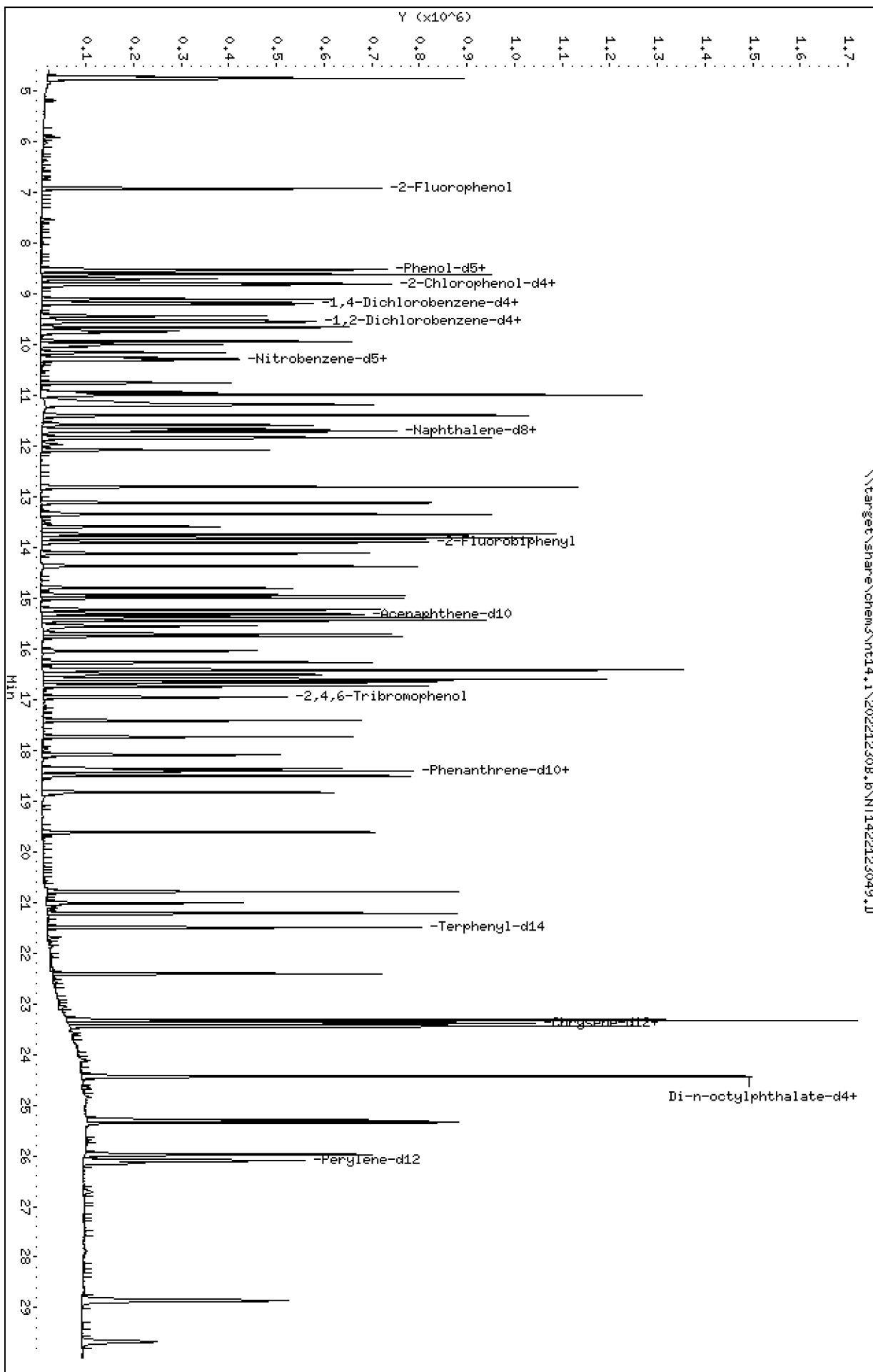
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230B.B\NT1422123049.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123049.D
 Lab Smp Id: SKL0355-ICV4
 Inj Date : 31-DEC-2022 13:17 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-ICV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.927	6.927	(0.756)	318095	7.50000	7.385
\$ 2 Phenol-d5	99		8.519	8.519	(0.929)	395282	7.50000	7.426
3 Phenol	94		8.542	8.542	(0.932)	282346	5.00000	4.668
\$ 5 2-Chlorophenol-d4	132		8.804	8.804	(0.960)	331140	7.50000	7.408
4 Bis(2-Chloroethyl)ether	93		8.704	8.704	(0.949)	190804	5.00000	4.580
6 2-Chlorophenol	128		8.835	8.835	(0.964)	231595	5.00000	4.717
7 1,3-Dichlorobenzene	146		9.106	9.106	(0.993)	237894	5.00000	4.570
* 8 1,4-Dichlorobenzene-d4	152		9.168	9.168	(1.000)	134439	4.00000	
9 1,4-Dichlorobenzene	146		9.199	9.199	(1.003)	226038	5.00000	4.583
\$ 10 1,2-Dichlorobenzene-d4	152		9.533	9.533	(1.040)	143284	5.00000	4.690
12 1,2-Dichlorobenzene	146		9.564	9.564	(1.043)	222073	5.00000	4.591
11 Benzyl alcohol	108		9.440	9.440	(1.030)	131562	5.00000	4.886
14 2,2'-oxybis(1-Chloropropane)	121		9.743	9.743	(1.063)	65547	5.00000	4.674 (M)
13 2-Methylphenol	108		9.665	9.665	(1.054)	209285	5.00000	4.762
17 Hexachloroethane	117		10.162	10.162	(1.108)	78927	5.00000	4.351
16 N-Nitroso-di-n-propylamine	70		9.999	9.999	(1.091)	134224	5.00000	5.014
15 4-Methylphenol	108		9.937	9.937	(1.084)	225216	5.00000	4.858
\$ 18 Nitrobenzene-d5	82		10.270	10.270	(0.879)	211804	5.00000	5.094
19 Nitrobenzene	77		10.301	10.301	(0.882)	201616	5.00000	4.882
20 Isophorone	82		10.759	10.759	(0.921)	276273	5.00000	5.249
21 2-Nitrophenol	139		10.938	10.938	(0.936)	138429	5.00000	5.240
22 2,4-Dimethylphenol	107		10.992	10.992	(0.941)	446305	10.0000	10.36
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	189375	5.00000	4.625
24 Benzoic acid	105		11.201	11.201	(0.959)	428307	20.0000	15.75
25 2,4-Dichlorophenol	162		11.403	11.403	(0.976)	379120	10.0000	10.44
26 1,2,4-Trichlorobenzene	180		11.589	11.589	(0.992)	178031	5.00000	4.532
* 27 Naphthalene-d8	136		11.681	11.681	(1.000)	492388	4.00000	
28 Naphthalene	128		11.720	11.720	(1.003)	558768	5.00000	4.611
29 4-Chloroaniline	127		11.843	11.843	(1.014)	512381	10.0000	10.25
30 Hexachlorobutadiene	225		12.083	12.083	(1.034)	89975	5.00000	4.617
31 4-Chloro-3-methylphenol	107		12.810	12.810	(1.097)	349886	10.0000	10.21
32 2-Methylnaphthalene	142		13.128	13.128	(1.124)	425154	5.00000	4.783
33 Hexachlorocyclopentadiene	237		13.592	13.592	(0.887)	97972	10.0000	4.788

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.747	13.747	(0.897)	237750	10.0000	10.52
35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	261288	10.0000	10.02
§ 36 2-Fluorobiphenyl	172	13.909	13.909	(0.908)	428372	5.00000	4.707
37 2-Chloronaphthalene	162	14.126	14.126	(0.922)	359839	5.00000	4.648
38 2-Nitroaniline	65	14.373	14.373	(0.938)	219409	10.0000	10.78
39 Dimethylphthalate	163	14.807	14.807	(0.967)	365868	5.00000	4.793
40 Acenaphthylene	152	15.000	15.000	(0.979)	559101	5.00000	4.736
41 2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	173311	10.0000	10.06
* 42 Acenaphthene-d10	164	15.318	15.318	(1.000)	270679	4.00000	
43 3-Nitroaniline	138	15.233	15.233	(0.994)	206283	10.0000	9.852
44 Acenaphthene	153	15.379	15.379	(1.004)	337375	5.00000	4.608
45 2,4-Dinitrophenol	184	15.441	15.441	(1.008)	225574	20.0000	14.90
46 Dibenzofuran	168	15.712	15.712	(1.026)	505439	5.00000	4.603
47 4-Nitrophenol	109	15.549	15.549	(1.015)	90870	10.0000	8.888
48 2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	232528	10.0000	9.838
50 Diethylphthalate	149	16.268	16.268	(1.062)	533829	5.00000	5.145
49 Fluorene	166	16.423	16.423	(1.072)	594177	5.00000	5.087
51 4-Chlorophenyl-phenylether	204	16.415	16.415	(1.072)	273789	5.00000	4.788
52 4-Nitroaniline	138	16.508	16.508	(1.078)	239502	10.0000	9.301
53 4,6-Dinitro-2-methylphenol	198	16.608	16.608	(0.904)	321950	20.0000	17.18
54 N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	349767	5.00000	4.745
§ 55 2,4,6-Tribromophenol	330	16.963	16.963	(1.107)	90863	7.50000	6.905
56 4-Bromophenyl-phenylether	248	17.418	17.418	(0.948)	131864	5.00000	4.724
57 Hexachlorobenzene	284	17.742	17.742	(0.966)	139095	5.00000	4.541
58 Pentachlorophenol	266	18.098	18.098	(0.985)	93628	10.0000	6.821
* 59 Phenanthrene-d10	188	18.369	18.369	(1.000)	429616	4.00000	
60 Phenanthrene	178	18.415	18.415	(1.003)	506260	5.00000	4.520
61 Anthracene	178	18.508	18.508	(1.008)	517858	5.00000	4.843
62 Carbazole	167	18.833	18.833	(1.025)	484136	5.00000	4.683
63 Di-n-butylphthalate	149	19.622	19.622	(1.068)	608900	5.00000	5.007
64 Fluoranthene	202	20.798	20.798	(0.889)	562690	5.00000	4.647
65 Pyrene	202	21.224	21.224	(0.907)	581038	5.00000	4.564
§ 66 Terphenyl-d14	244	21.495	21.495	(0.918)	400723	5.00000	4.439
67 Butylbenzylphthalate	149	22.416	22.416	(0.958)	247254	5.00000	5.058
68 Benzo(a)anthracene	228	23.376	23.376	(0.999)	543234	5.00000	4.769
* 69 Chrysene-d12	240	23.407	23.407	(1.000)	376030	4.00000	
70 3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	589803	15.0000	16.91
71 Chrysene	228	23.454	23.454	(1.002)	492682	5.00000	4.579
72 bis(2-Ethylhexyl)phthalate	149	23.438	23.438	(0.959)	353144	5.00000	5.011
* 134 Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	634628	4.00000	
73 Di-n-octylphthalate	149	24.437	24.437	(1.000)	665451	5.00000	4.368
74 Benzo(b)fluoranthene	252	25.304	25.304	(0.970)	517739	5.00000	4.900
75 Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	579041	5.00000	5.384
76 Benzo(a)pyrene	252	25.978	25.978	(0.996)	445897	5.00000	5.076
* 77 Perylene-d12	264	26.094	26.094	(1.000)	336225	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.854	28.854	(1.106)	316385	5.00000	3.168
79 Dibenzo(a,h)anthracene	278	28.861	28.861	(1.106)	286372	5.00000	3.375
80 Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	210520	5.00000	2.517
90 N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	283127	10.0000	9.545
91 Aniline	93	8.619	8.619	(0.940)	558976	10.0000	9.492
93 Benzidine	184	21.015	21.015	(0.898)	282018	10.0000	5.976
103 Pyridine	79	4.757	4.757	(0.519)	444965	5.00000	4.721
105 1-methylnaphthalene	142	13.352	13.352	(1.143)	411173	5.00000	4.814
111 Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	492427	5.00000	4.899

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.343	25.343	(0.971)	1045858	10.0000	10.24
120 2,3,4,6-Tetrachlorophenol	232		16.044	16.044	(1.047)	87129	5.00000	4.408

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123049.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	134439	67220	268878	134439	0.00
27 Naphthalene-d8	492388	246194	984776	492388	0.00
42 Acenaphthene-d10	270679	135340	541358	270679	0.00
59 Phenanthrene-d10	429616	214808	859232	429616	0.00
69 Chrysene-d12	376030	188015	752060	376030	0.00
134 Di-n-octylphthala	634628	317314	1269256	634628	0.00
77 Perylene-d12	336225	168113	672450	336225	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.68	0.00
42 Acenaphthene-d10	15.32	14.82	15.82	15.32	0.00
59 Phenanthrene-d10	18.37	17.87	18.87	18.37	0.00
69 Chrysene-d12	23.41	22.91	23.91	23.41	0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123049.D

Lab ID: SKL0355-ICV4
nt14.i, 20221230B.b\ABN.m, 31-DEC-2022 13:17

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

No RRT check. Ccal file.

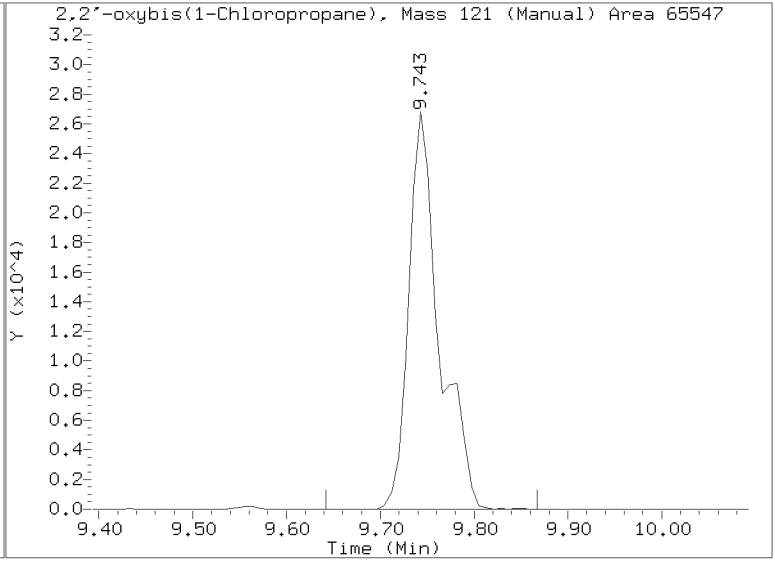
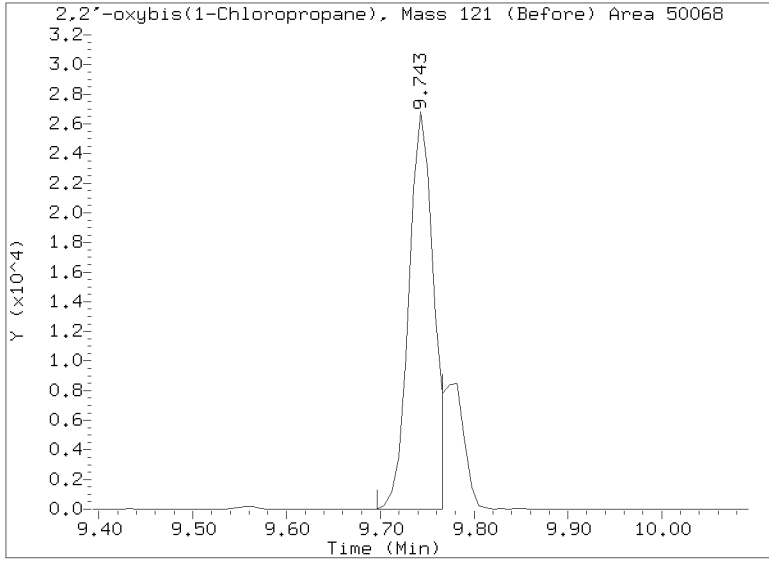
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123049.D
Injection Date: 31-DEC-2022 13:17
Lab ID:SKL0355-ICV4 Client ID:
Report Date: 01/04/2023 12:19

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230B.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1422123049.D 31-DEC-2022 13:17

Compound	%D

Benzoic acid	-21.2
Hexachlorocyclopentadiene	-52.1
2,4-Dinitrophenol	-25.5
Pentachlorophenol	-31.8
Indeno(1,2,3-cd)pyrene	-36.6
Dibenzo(a,h)anthracene	-32.5
Benzo(g,h,i)perylene	-49.7
Benzidine	-40.2



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123066.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV5

Injection Time: 23:30

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.6	1.7995200	1.6541100		-8.1	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.5	1.2396270	1.1273220		-9.1	+/-20
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3644940		-6.6	+/-20
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4214870		-8.2	+/-20
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3397200		-8.7	+/-20
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3209120		-8.2	+/-20
Benzyl Alcohol	A	5.0000	4.8	0.8011083	0.7636251		-4.7	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3591366		-13.9	+/-20
2-Methylphenol	A	5.0000	4.7	1.3076140	1.2332530		-5.7	+/-20
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4729199		-12.4	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7933696		-0.4	+/-20
4-Methylphenol	A	5.0000	4.8	1.3794240	1.3205430		-4.3	+/-20
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3301455		-1.6	+/-20
Isophorone	A	5.0000	5.3	0.4275424	0.4545998		6.3	+/-20
2-Nitrophenol	A	5.0000	5.4	0.2064997	0.2310454		7.5	+/-20
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3342418		-4.5	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.7	0.3325989	0.3094664		-7.0	+/-20
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3075498		4.2	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2880378		-9.7	+/-20
Naphthalene	A	5.0000	4.6	0.9843833	0.8996040		-8.6	+/-20
Benzoic acid	A	20.000	15.0	0.1508906	0.1657042		-24.9	+/-20 *
4-Chloroaniline	A	10.000	9.4	0.4059568	0.3830169		-5.7	+/-20
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1502550		-5.1	+/-20
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2866657		2.9	+/-20
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6972628		-3.4	+/-20
Hexachlorocyclopentadiene	A	10.000	5.0	0.3023695	0.1518054		-49.8	+/-20 *
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3460067		3.6	+/-20
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3854916		0.0	+/-20
2-Chloronaphthalene	A	5.0000	4.7	1.1441150	1.0645600		-7.0	+/-20
2-Nitroaniline	A	10.000	10.9	0.3007956	0.3273099		8.8	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123066.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV5

Injection Time: 23:30

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.8	1.7445240	1.6645010		-4.6	+/-20
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0867640		-3.7	+/-20
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2579856		1.3	+/-20
Acenaphthene	A	5.0000	4.6	1.0820160	1.0009870		-7.5	+/-20
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995328		-3.2	+/-20
2,4-Dinitrophenol	A	20.000	10.4	0.1831718	0.1152467		-48.0	+/-20 *
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4878950		-8.3	+/-20
4-Nitrophenol	A	10.000	8.6	0.1384031	0.1290829		-14.5	+/-20
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3462479		-0.9	+/-20
Fluorene	A	5.0000	5.1	1.7261350	1.7759490		2.9	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8294615		-1.8	+/-20
Diethyl phthalate	A	5.0000	5.3	1.5332690	1.6189800		5.6	+/-20
4-Nitroaniline	A	10.000	8.9	0.3413732	0.3375193		-11.2	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	14.2	0.1530278	0.1232685		-28.9	+/-20 *
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6402818		-6.7	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2438656		-6.2	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2582537		-9.5	+/-20
Pentachlorophenol	A	10.000	4.9	0.1128364	0.0625034		-50.6	+/-20 *
Phenanthrene	A	5.0000	4.5	1.0429190	0.9401257		-9.9	+/-20
Anthracene	A	5.0000	4.8	0.9956202	0.9631939		-3.3	+/-20
Carbazole	A	5.0000	4.6	0.9624945	0.8907934		-7.4	+/-20
Di-n-Butylphthalate	A	5.0000	5.2	1.0394700	1.1725880		3.4	+/-20
Fluoranthene	A	5.0000	4.6	1.2879410	1.1939660		-7.3	+/-20
Pyrene	A	5.0000	4.5	1.3541610	1.2193400		-10.0	+/-20
Butylbenzylphthalate	A	5.0000	5.2	0.4650792	0.5450507		4.7	+/-20
Benzo(a)anthracene	A	5.0000	4.7	1.2117210	1.1489750		-5.2	+/-20
3,3'-Dichlorobenzidine	A	15.000	16.8	0.3709370	0.4155321		12.0	+/-20
Chrysene	A	5.0000	4.6	1.1445730	1.0527600		-8.0	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4386889		-1.2	+/-20
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8345177		-13.1	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123066.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-ICV5

Injection Time: 23:30

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.3	1.2153330	1.2538490		3.2	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0608340		1.5	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	2.9	1.1879490	0.6828509		-42.5	+/-20 *
Dibenzo(a,h)anthracene	A	5.0000	3.0	1.0094890	0.6136830		-39.2	+/-20 *
Benzo(g,h,i)perylene	A	5.0000	2.2	0.9951726	0.4471983		-55.1	+/-20 *
1-Methylnaphthalene	A	5.0000	4.9	0.6937882	0.6757147		-2.6	+/-20
2-Fluorophenol	A	7.5000	7.34	1.2814900	1.2547510		-2.1	+/-20
Phenol-d5	A	7.5000	7.34	1.5836890	1.5508350		-2.1	+/-20
2-Chlorophenol-d4	A	7.5000	7.38	1.3300510	1.3086010		-1.6	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8508292		-6.4	+/-20
Nitrobenzene-d5	A	5.0000	5.19	0.3377760	0.3507210		3.8	+/-20
2-Fluorobiphenyl	A	5.0000	4.77	1.3448860	1.2835680		-4.6	+/-20
2,4,6-Tribromophenol	A	7.5000	6.70	0.1844845	0.1733623		-10.7	+/-20
p-Terphenyl-d14	A	5.0000	4.34	0.9601842	0.8338715		-13.2	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123066.D

Date: 31-DEC-2022 23:30

Client ID:

Sample Info: SKL0365-ICWS

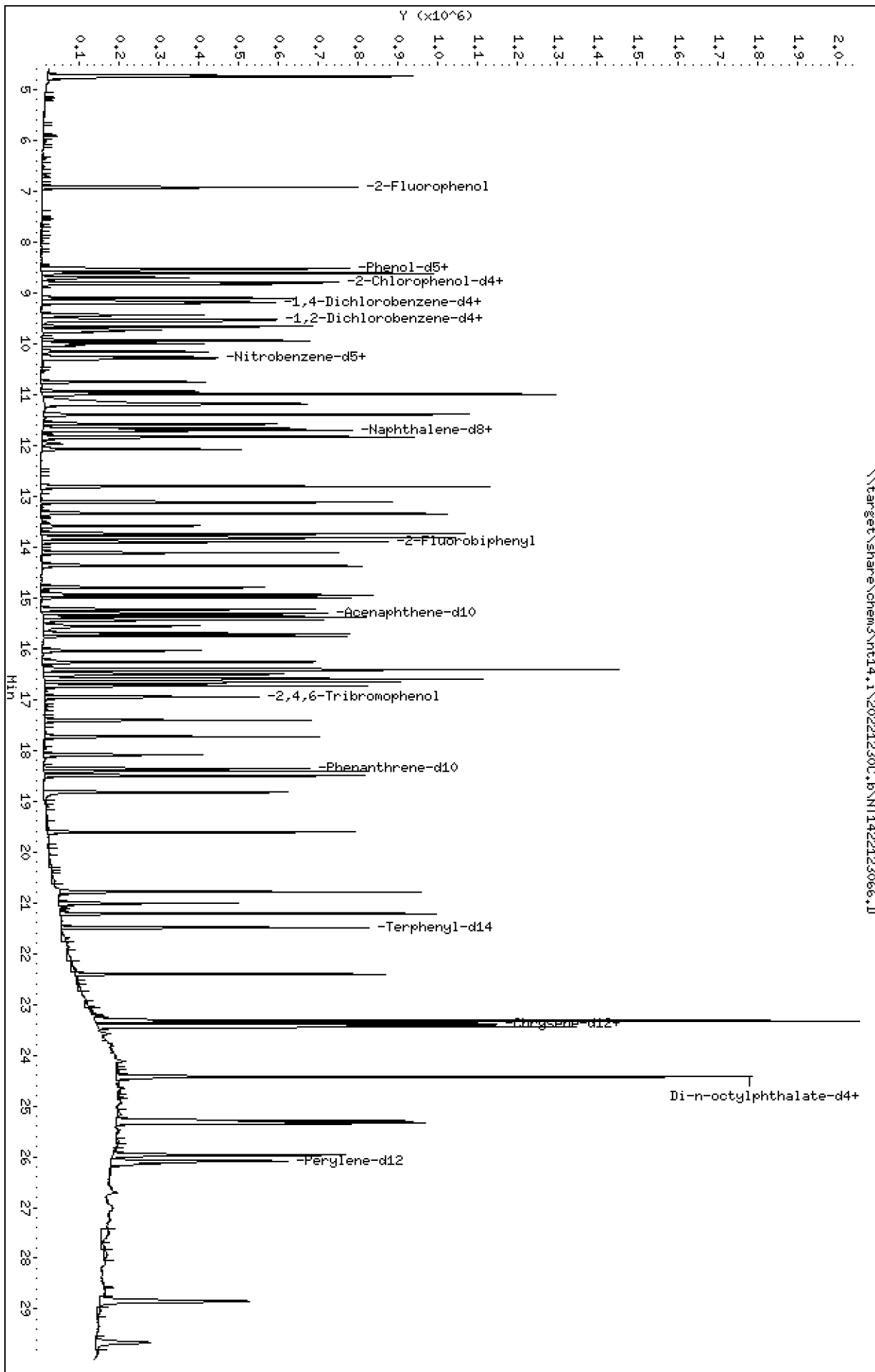
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230C.B\NT1422123066.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123066.D
 Lab Smp Id: SKL0355-ICV5
 Inj Date : 31-DEC-2022 23:30 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-ICV5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.919	(0.755)	326443	7.50000	7.344
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	403474	7.50000	7.344
3 Phenol	94		8.542	8.542	(0.932)	286895	5.00000	4.596
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	340453	7.50000	7.379
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	195527	5.00000	4.547
6 2-Chlorophenol	128		8.827	8.827	(0.964)	236663	5.00000	4.671
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	246548	5.00000	4.589
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	138755	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	232366	5.00000	4.565
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	147571	5.00000	4.680
12 1,2-Dichlorobenzene	146		9.556	9.556	(1.043)	229104	5.00000	4.589
11 Benzyl alcohol	108		9.440	9.440	(1.030)	132446	5.00000	4.766
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	62290	5.00000	4.304 (M)
13 2-Methylphenol	108		9.665	9.665	(1.055)	213900	5.00000	4.716
17 Hexachloroethane	117		10.154	10.154	(1.108)	82025	5.00000	4.381
16 N-Nitroso-di-n-propylamine	70		9.998	9.998	(1.092)	137605	5.00000	4.980
15 4-Methylphenol	108		9.936	9.936	(1.085)	229040	5.00000	4.787
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.879)	219956	5.00000	5.192
19 Nitrobenzene	77		10.301	10.301	(0.882)	207052	5.00000	4.921
20 Isophorone	82		10.751	10.751	(0.921)	285104	5.00000	5.316
21 2-Nitrophenol	139		10.937	10.937	(0.937)	144901	5.00000	5.376
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	419242	10.0000	9.547
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	194083	5.00000	4.652
24 Benzoic acid	105		11.209	11.209	(0.960)	415688	20.0000	15.03
25 2,4-Dichlorophenol	162		11.395	11.395	(0.976)	385762	10.0000	10.42
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.992)	180644	5.00000	4.513
* 27 Naphthalene-d8	136		11.673	11.673	(1.000)	501723	4.00000	
28 Naphthalene	128		11.712	11.712	(1.003)	564190	5.00000	4.569
29 4-Chloroaniline	127		11.835	11.835	(1.014)	480421	10.0000	9.435
30 Hexachlorobutadiene	225		12.075	12.075	(1.034)	94233	5.00000	4.745
31 4-Chloro-3-methylphenol	107		12.810	12.810	(1.097)	359567	10.0000	10.29
32 2-Methylnaphthalene	142		13.120	13.120	(1.124)	437291	5.00000	4.828
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.887)	104455	10.0000	5.021

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.897)	238082	10.0000	10.36
35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.902)	265251	10.0000	10.00
§ 36 2-Fluorobiphenyl	172	13.901	13.901	(0.908)	441602	5.00000	4.772
37 2-Chloronaphthalene	162	14.118	14.118	(0.922)	366254	5.00000	4.652
38 2-Nitroaniline	65	14.373	14.373	(0.939)	225217	10.0000	10.88
39 Dimethylphthalate	163	14.799	14.799	(0.967)	373893	5.00000	4.817
40 Acenaphthylene	152	14.993	14.993	(0.979)	572659	5.00000	4.771
41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	177516	10.0000	10.13
* 42 Acenaphthene-d10	164	15.310	15.310	(1.000)	275234	4.00000	
43 3-Nitroaniline	138	15.225	15.225	(0.994)	206104	10.0000	9.680
44 Acenaphthene	153	15.371	15.371	(1.004)	344382	5.00000	4.626
45 2,4-Dinitrophenol	184	15.441	15.441	(1.009)	158599	20.0000	10.41
46 Dibenzofuran	168	15.704	15.704	(1.026)	511899	5.00000	4.585
47 4-Nitrophenol	109	15.557	15.557	(1.016)	88820	10.0000	8.550
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	238248	10.0000	9.913
50 Diethylphthalate	149	16.268	16.268	(1.063)	556998	5.00000	5.280
49 Fluorene	166	16.423	16.423	(1.073)	611002	5.00000	5.144
51 4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	285370	5.00000	4.908
52 4-Nitroaniline	138	16.500	16.500	(1.078)	232242	10.0000	8.879
53 4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	271243	20.0000	14.23
54 N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	352223	5.00000	4.664
§ 55 2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	89466	7.50000	6.695
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.948)	134152	5.00000	4.691
57 Hexachlorobenzene	284	17.734	17.734	(0.966)	142067	5.00000	4.527
58 Pentachlorophenol	266	18.090	18.090	(0.985)	68767	10.0000	4.939
* 59 Phenanthrene-d10	188	18.361	18.361	(1.000)	440085	4.00000	
60 Phenanthrene	178	18.408	18.408	(1.003)	517169	5.00000	4.507
61 Anthracene	178	18.500	18.500	(1.008)	529859	5.00000	4.837
62 Carbazole	167	18.825	18.825	(1.025)	490031	5.00000	4.628
63 Di-n-butylphthalate	149	19.614	19.614	(1.068)	645048	5.00000	5.171
64 Fluoranthene	202	20.791	20.791	(0.889)	574290	5.00000	4.635
65 Pyrene	202	21.216	21.216	(0.907)	586495	5.00000	4.502
§ 66 Terphenyl-d14	244	21.495	21.495	(0.919)	401087	5.00000	4.342
67 Butylbenzylphthalate	149	22.408	22.408	(0.958)	262166	5.00000	5.237
68 Benzo(a)anthracene	228	23.376	23.376	(0.999)	552650	5.00000	4.741
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	384795	4.00000	
70 3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	599605	15.0000	16.80
71 Chrysene	228	23.446	23.446	(1.002)	506371	5.00000	4.599
72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	369886	5.00000	4.938
* 134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	674530	4.00000	
73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	703634	5.00000	4.346
74 Benzo(b)fluoranthene	252	25.296	25.296	(0.970)	566281	5.00000	5.352
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	539859	5.00000	5.013
76 Benzo(a)pyrene	252	25.970	25.970	(0.996)	446432	5.00000	5.076
* 77 Perylene-d12	264	26.086	26.086	(1.000)	336665	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.105)	287365	5.00000	2.874
79 Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	258257	5.00000	3.040
80 Benzo(g,h,i)perylene	276	29.653	29.653	(1.137)	188195	5.00000	2.247
90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	10.0000	9.280
91 Aniline	93	8.611	8.611	(0.940)	567250	10.0000	9.333
93 Benzidine	184	21.015	21.015	(0.898)	298846	10.0000	6.182
103 Pyridine	79	4.741	4.741	(0.518)	450863	5.00000	4.635
105 1-methylnaphthalene	142	13.344	13.344	(1.143)	423777	5.00000	4.870
111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	503446	5.00000	4.926

Compounds	QUANT SIG						AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
187 Total Benzofluoranthenes	252		25.335	25.335	(0.971)	1055318	10.0000	10.32
120 2,3,4,6-Tetrachlorophenol	232		16.044	16.044	(1.048)	82302	5.00000	4.106

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 30-DEC-2022
 Lab File ID: NT1422123066.D Calibration Time: 08:06
 Lab Smp Id: SKL0355-ICV5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	138755	0.00
27 Naphthalene-d8	501723	250862	1003446	501723	0.00
42 Acenaphthene-d10	275234	137617	550468	275234	0.00
59 Phenanthrene-d10	440085	220043	880170	440085	0.00
69 Chrysene-d12	384795	192398	769590	384795	0.00
134 Di-n-octylphthala	674530	337265	1349060	674530	0.00
77 Perylene-d12	336665	168333	673330	336665	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	0.00
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123066.D

Lab ID: SKL0355-ICV5
nt14.i, 20221230C.b\ABN.m, 31-DEC-2022 23:30

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

No RRT check. Ccal file.

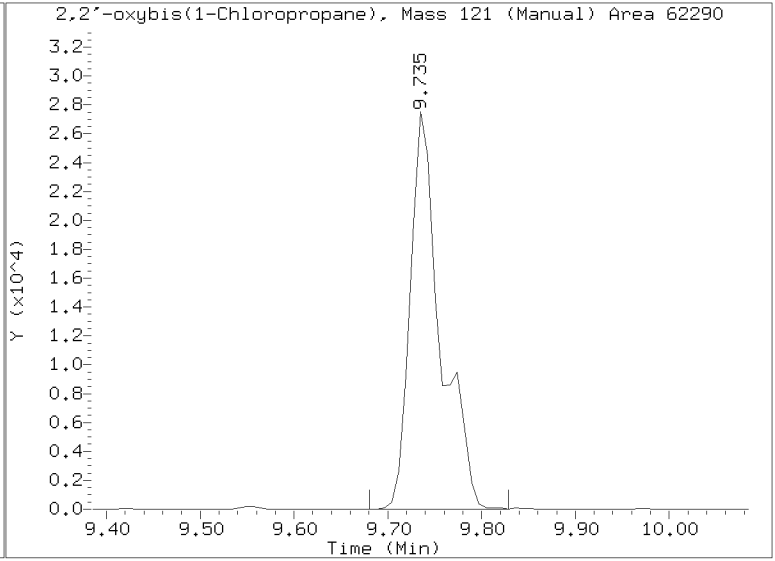
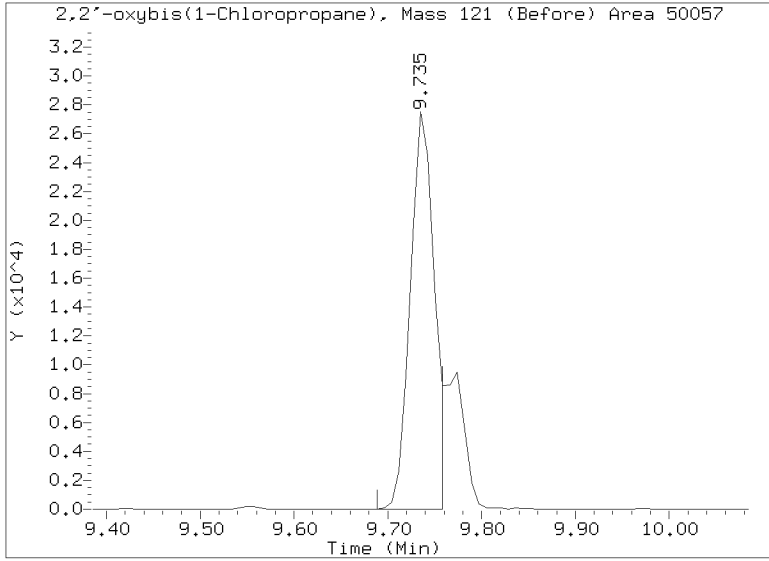
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123066.D
Injection Date: 31-DEC-2022 23:30
Lab ID:SKL0355-ICV5 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230C.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1422123066.D 31-DEC-2022 23:30

Compound	%D

Benzoic acid	-24.8
Hexachlorocyclopentadiene	-49.8
2,4-Dinitrophenol	-47.9
4,6-Dinitro-2-methylphenol	-28.8
Pentachlorophenol	-50.6
Indeno(1,2,3-cd)pyrene	-42.5
Dibenzo(a,h)anthracene	-39.2
Benzo(g,h,i)perylene	-55.1
Benzidine	-38.2



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123083.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-CCV1

Injection Time: 09:41

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.6	1.7995200	1.6731840		-7.0	+/-50
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1353140		-8.4	+/-50
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3754550		-5.8	+/-50
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4240610		-8.1	+/-50
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3461820		-8.3	+/-50
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3216280		-8.2	+/-50
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7786153		-2.8	+/-50
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3583668		-14.1	+/-50
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2542810		-4.1	+/-50
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4720417		-12.5	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8192319		2.8	+/-50
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3458060		-2.4	+/-50
Nitrobenzene	A	5.0000	5.0	0.3354574	0.3326707		-0.8	+/-50
Isophorone	A	5.0000	5.3	0.4275424	0.4559427		6.6	+/-50
2-Nitrophenol	A	5.0000	5.3	0.2064997	0.2291351		6.7	+/-50
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3314908		-5.3	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3066220		-7.8	+/-50
2,4-Dichlorophenol	A	10.000	10.2	0.2951237	0.3014082		2.1	+/-50
1,2,4-Trichlorobenzene	A	5.0000	4.4	0.3191088	0.2836408		-11.1	+/-50
Naphthalene	A	5.0000	4.5	0.9843833	0.8905064		-9.5	+/-50
Benzoic acid	A	20.000	16.5	0.1508906	0.1821334		-17.7	+/-50
4-Chloroaniline	A	10.000	9.9	0.4059568	0.4009825		-1.2	+/-50
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1487629		-6.0	+/-50
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2878108		3.3	+/-50
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6897975		-4.5	+/-50
Hexachlorocyclopentadiene	A	10.000	3.6	0.3023695	0.1086819		-64.1	+/-50
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3462884		3.7	+/-50
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3824028		-0.8	+/-50
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0481300		-8.4	+/-50
2-Nitroaniline	A	10.000	11.3	0.3007956	0.3389274		12.7	+/-50
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7594450		0.9	+/-50
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0808130		-4.2	+/-50
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2581819		1.4	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123083.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-CCV1

Injection Time: 09:41

Sequence Name: ABN 5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	4.6	1.0820160	0.9999683		-7.6	+/-50
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995874		-3.2	+/-50
2,4-Dinitrophenol	A	20.000	13.3	0.1831718	0.1482472		-33.5	+/-50
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4657240		-9.7	+/-50
4-Nitrophenol	A	10.000	9.2	0.1384031	0.1391299		-8.0	+/-50
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3448000		-1.3	+/-50
Fluorene	A	5.0000	5.1	1.7261350	1.7687430		2.5	+/-50
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8314608		-1.6	+/-50
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6478880		7.5	+/-50
4-Nitroaniline	A	10.000	9.0	0.3413732	0.3423503		-10.0	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	16.5	0.1530278	0.1432829		-17.7	+/-50
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6588924		-4.0	+/-50
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455607		-5.5	+/-50
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2597005		-8.9	+/-50
Pentachlorophenol	A	10.000	6.1	0.1128364	0.0780640		-38.7	+/-50
Phenanthrene	A	5.0000	4.5	1.0429190	0.9402024		-9.8	+/-50
Anthracene	A	5.0000	4.9	0.9956202	0.9773434		-1.8	+/-50
Carbazole	A	5.0000	4.7	0.9624945	0.9134956		-5.1	+/-50
Di-n-Butylphthalate	A	5.0000	5.4	1.0394700	1.2185270		7.3	+/-50
Fluoranthene	A	5.0000	4.6	1.2879410	1.1892920		-7.7	+/-50
Pyrene	A	5.0000	4.5	1.3541610	1.2242240		-9.6	+/-50
Butylbenzylphthalate	A	5.0000	5.4	0.4650792	0.5665680		8.8	+/-50
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1678500		-3.6	+/-50
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4172378		12.5	+/-50
Chrysene	A	5.0000	4.7	1.1445730	1.0805530		-5.6	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4327024		-2.6	+/-50
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8245230		-14.1	+/-50
Benzo(a)fluoranthene, Total	A	10.000	10.9	1.2153330	1.3219910		8.8	+/-50
Benzo(a)pyrene	A	5.0000	5.0	1.0450150	1.0478520		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	2.6	1.1879490	0.6106120		-48.6	+/-50
Dibenzo(a,h)anthracene	A	5.0000	2.7	1.0094890	0.5545234		-45.1	+/-50
Benzo(g,h,i)perylene	A	5.0000	2.1	0.9951726	0.4142591		-58.4	+/-50
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6669162		-3.9	+/-50
2-Fluorophenol	A	7.5000	7.42	1.2814900	1.2675890		-1.1	+/-50

* Values outside of QC limits



CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>FL00066</u>
Lab File ID:	<u>NT1422123083.D</u>	Calibration Date:	<u>12/30/2022</u>
Sequence:	<u>SKL0355</u>	Injection Date:	<u>01/01/23</u>
Lab Sample ID:	<u>SKL0355-CCV1</u>	Injection Time:	<u>09:41</u>
Sequence Name:	<u>ABN 5</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.47	1.5836890	1.5763910		-0.5	+/-50
2-Chlorophenol-d4	A	7.5000	7.43	1.3300510	1.3175380		-0.9	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.70	0.9090592	0.8543946		-6.0	+/-50
Nitrobenzene-d5	A	5.0000	5.26	0.3377760	0.3550974		5.1	+/-50
2-Fluorobiphenyl	A	5.0000	4.66	1.3448860	1.2542170		-6.7	+/-50
2,4,6-Tribromophenol	A	7.5000	6.74	0.1844845	0.1746731		-10.1	+/-50
p-Terphenyl-d14	A	5.0000	4.28	0.9601842	0.8214505		-14.4	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123083.D

Date: 01-JAN-2023 09:41

Client ID:

Sample Info: SKL0365-CCW1

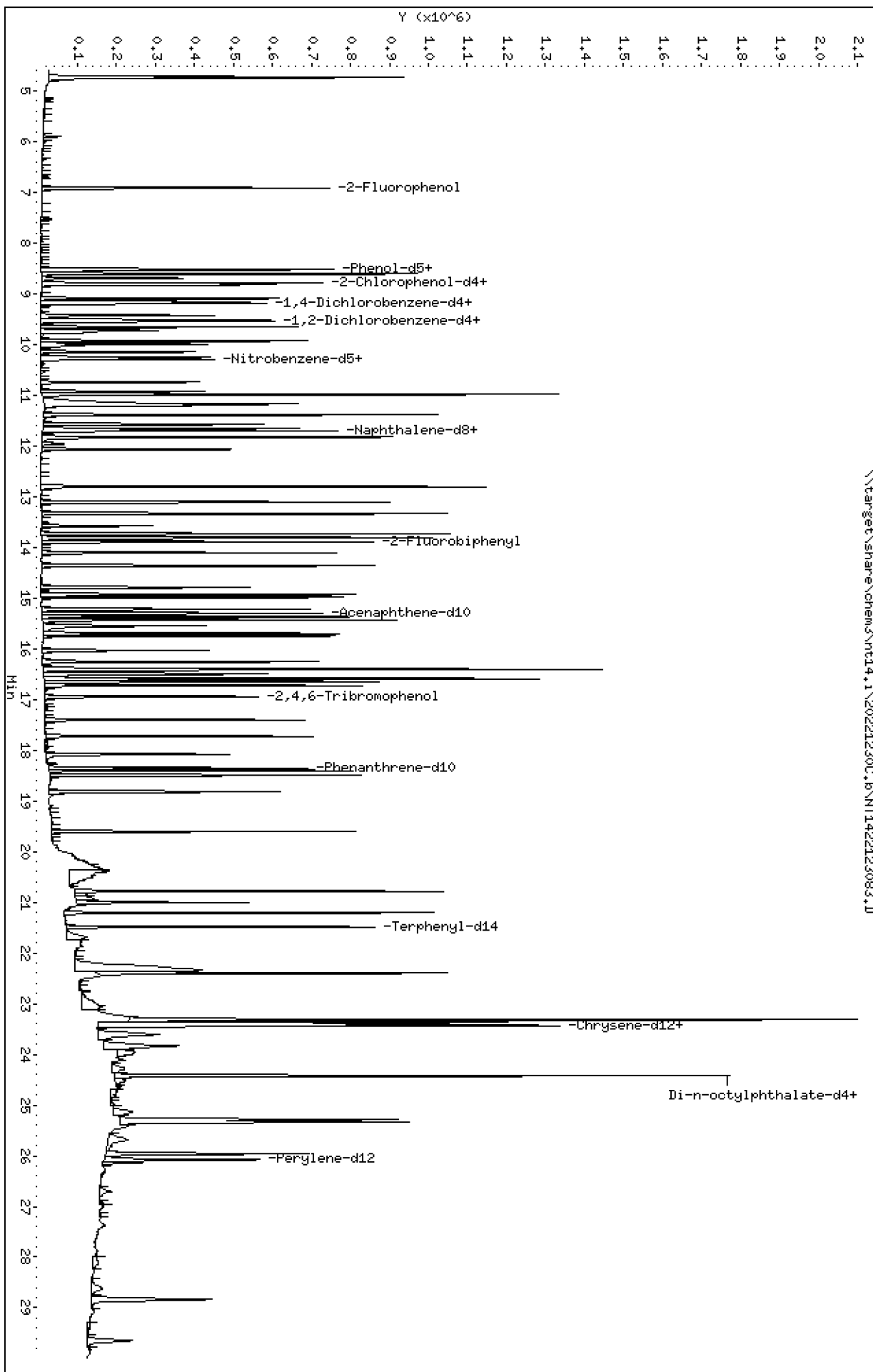
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

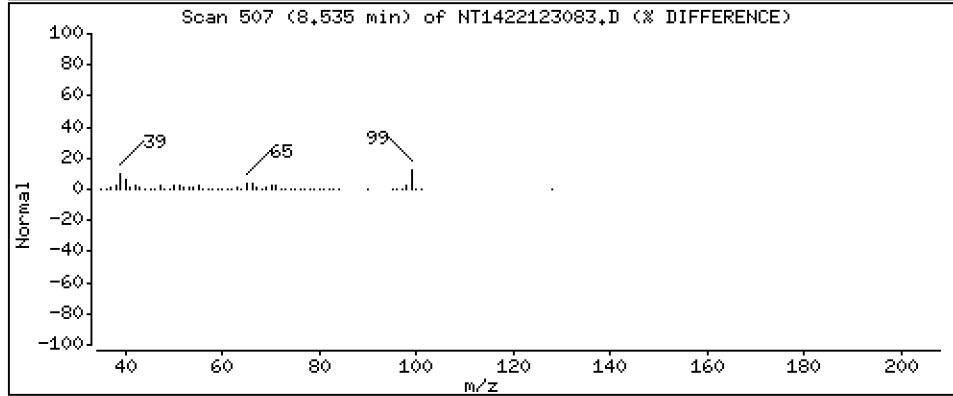
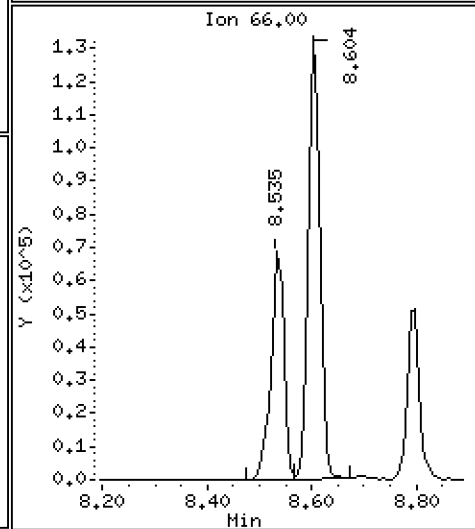
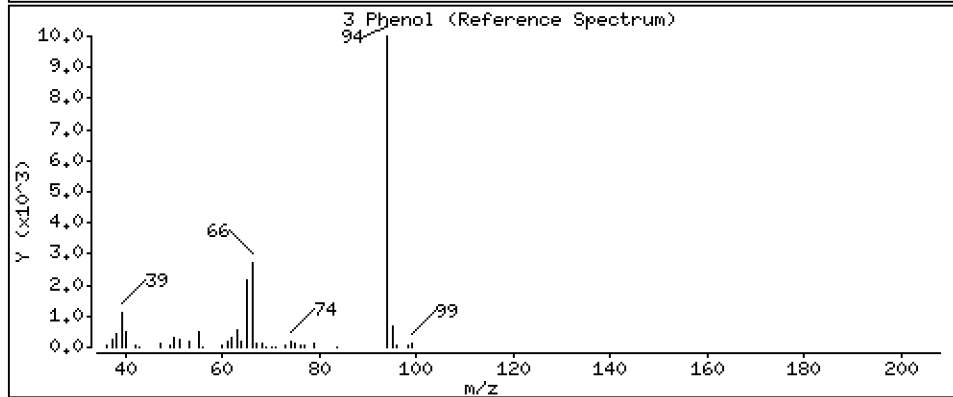
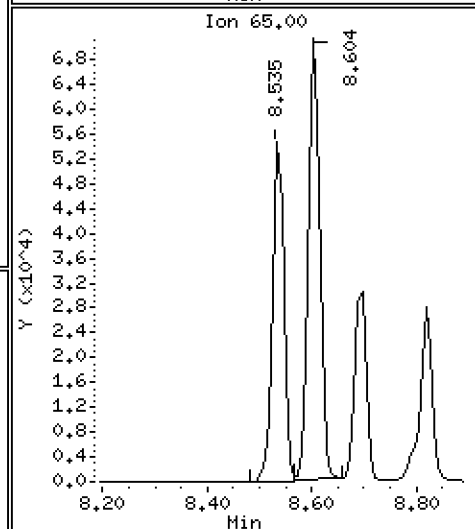
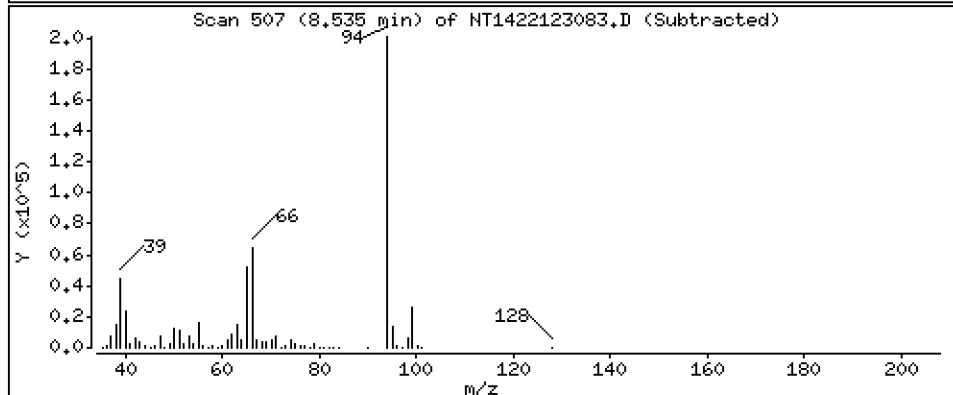
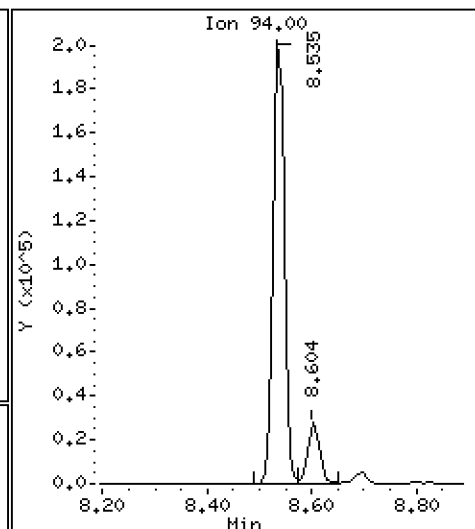
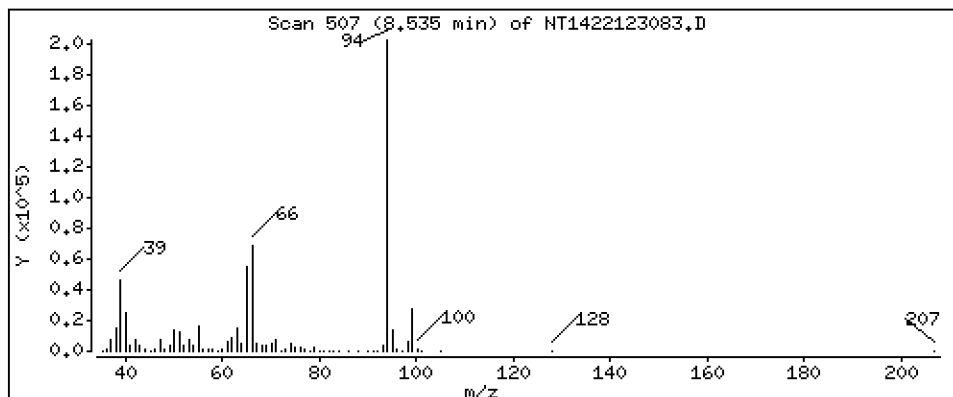
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 4,649 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

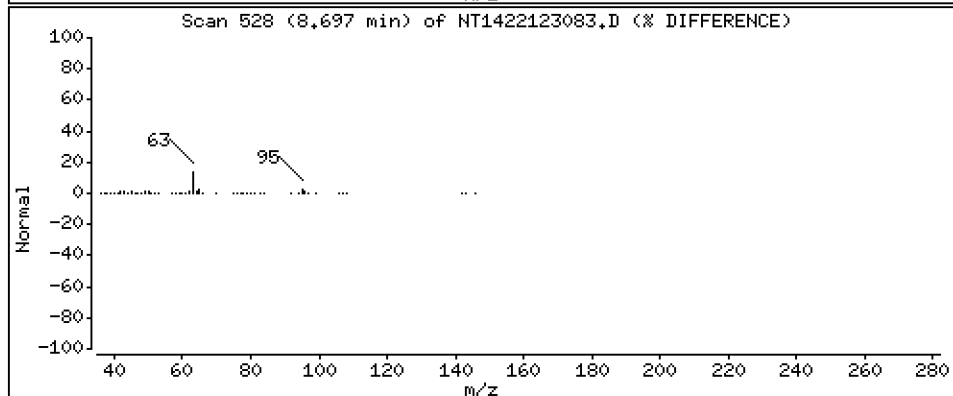
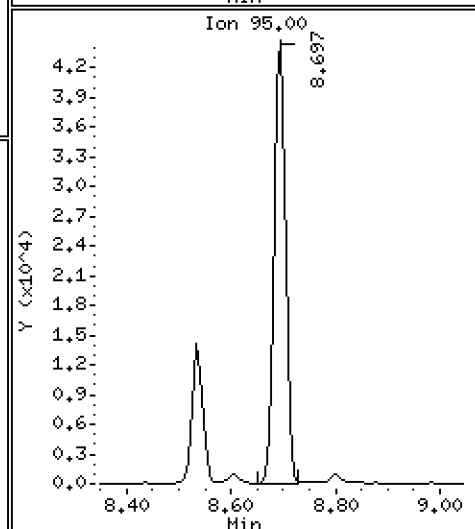
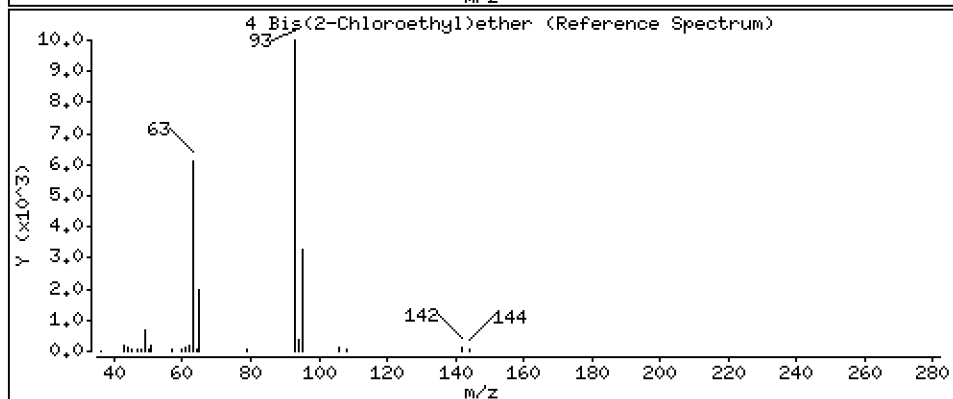
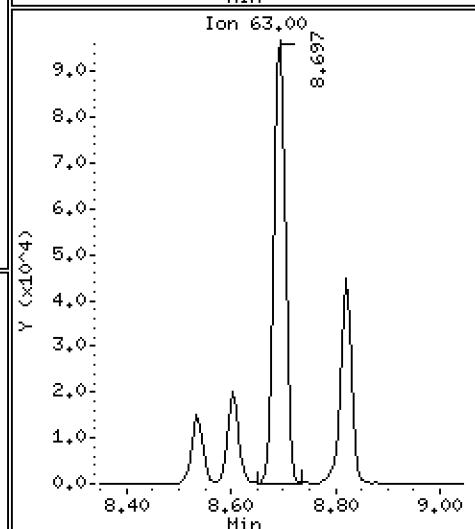
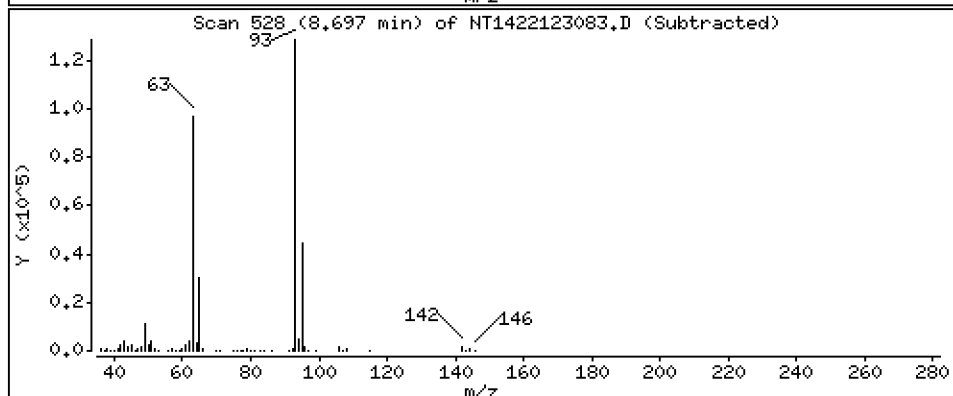
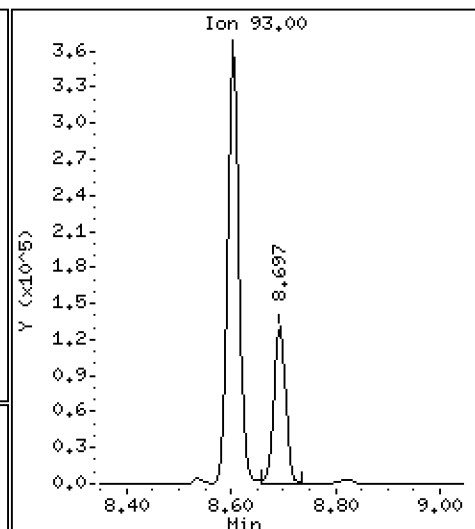
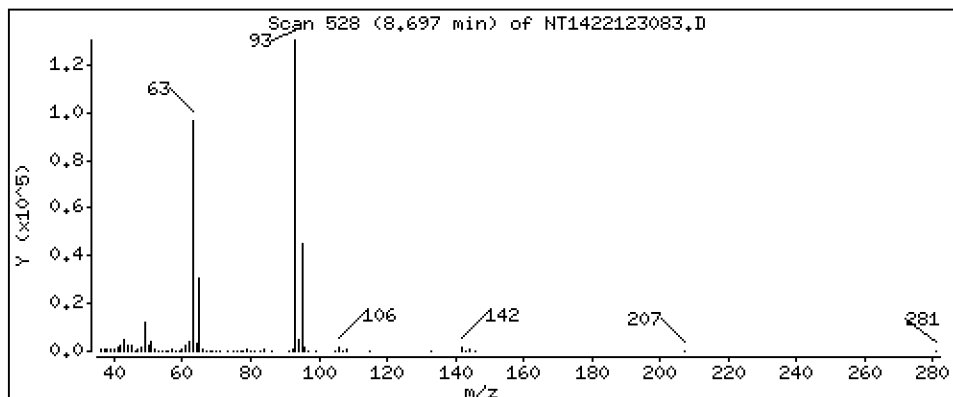
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 4,579 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

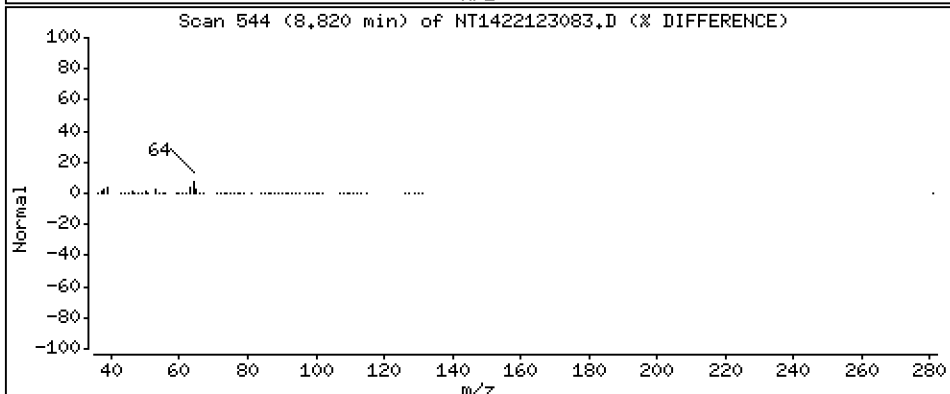
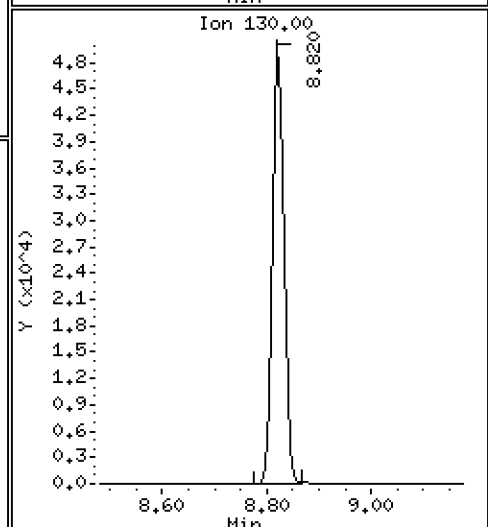
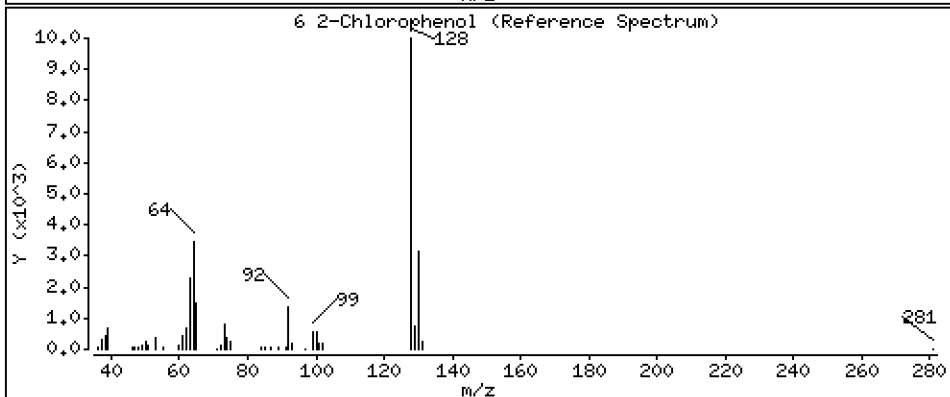
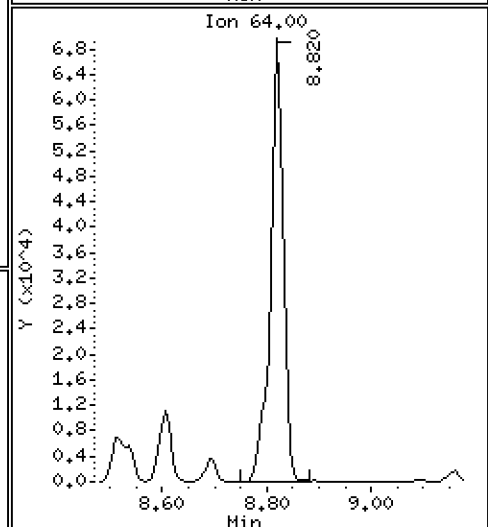
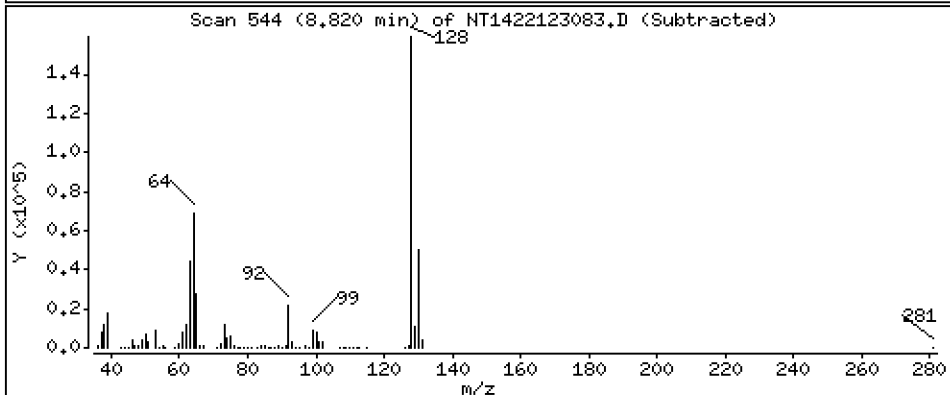
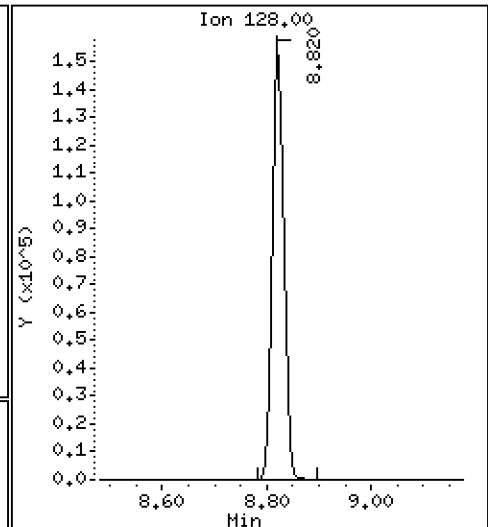
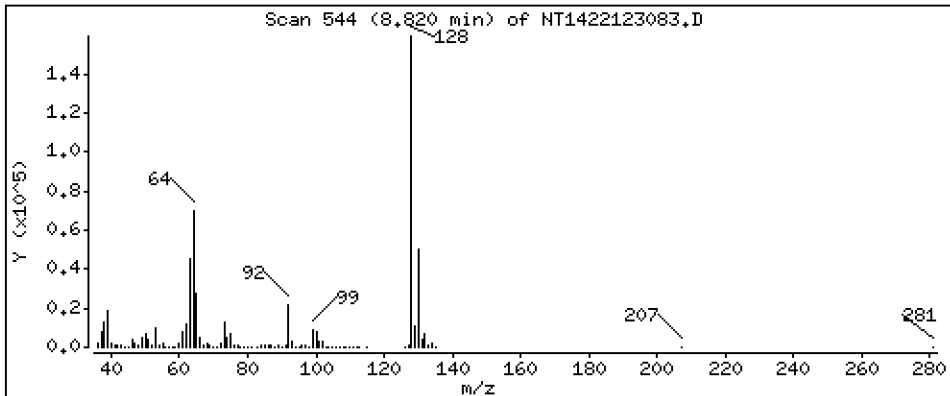
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 4,708 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

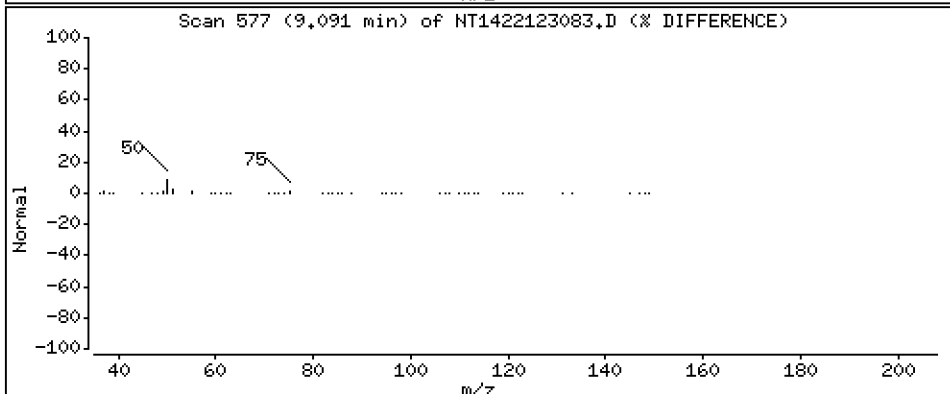
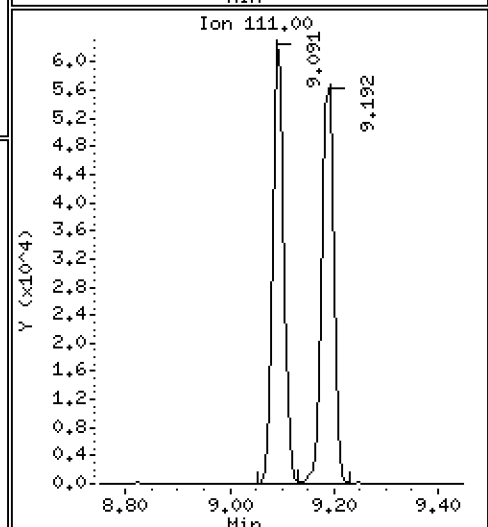
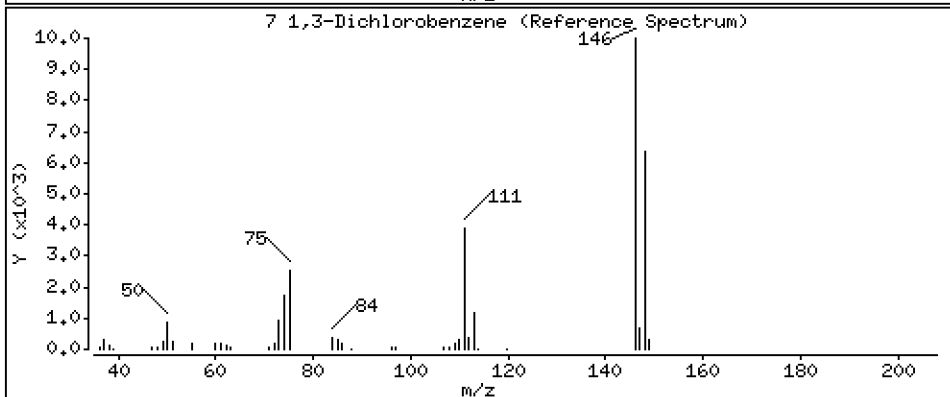
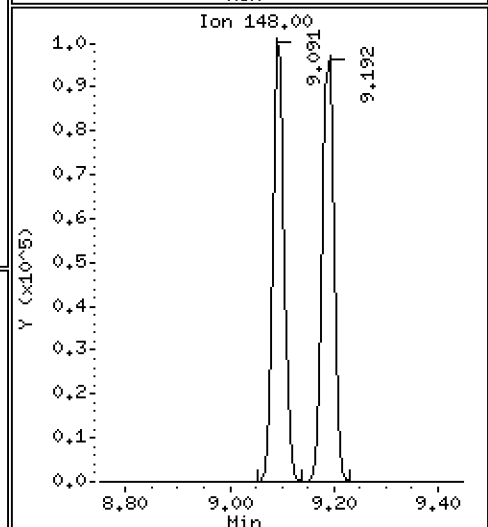
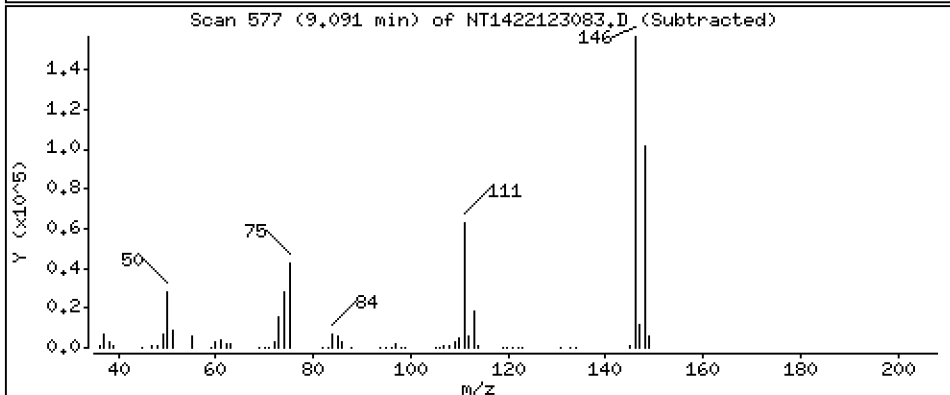
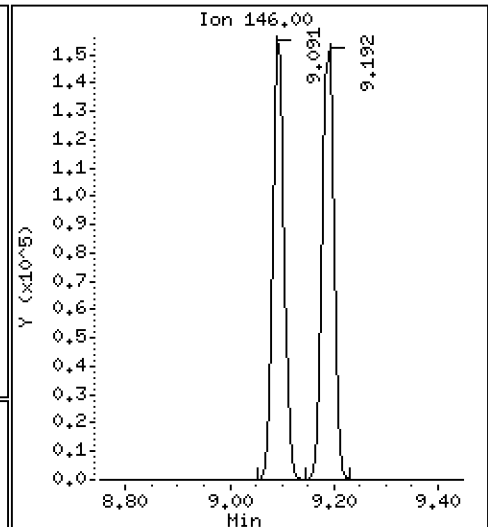
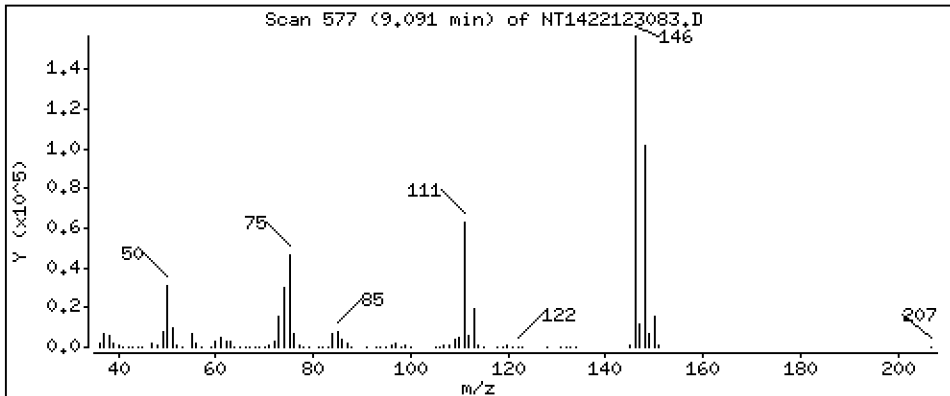
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 4.597 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

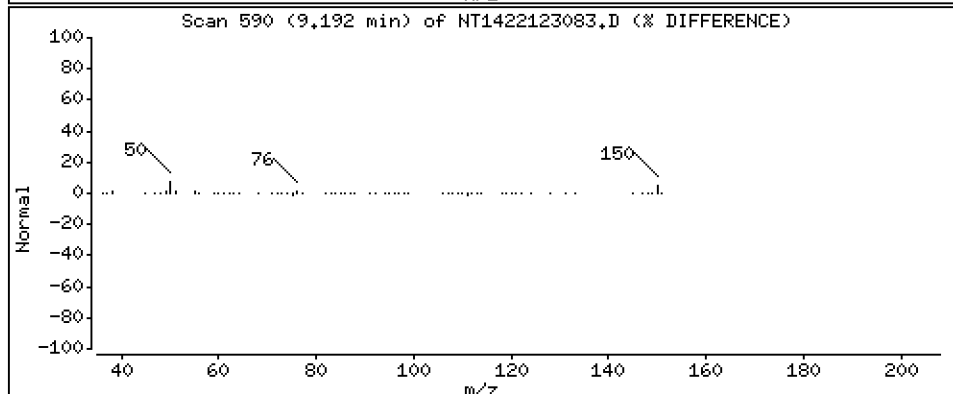
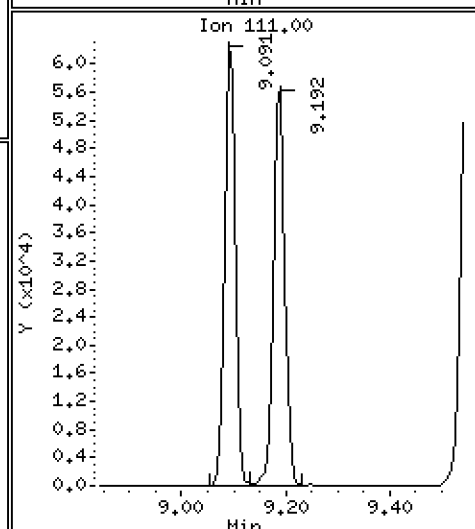
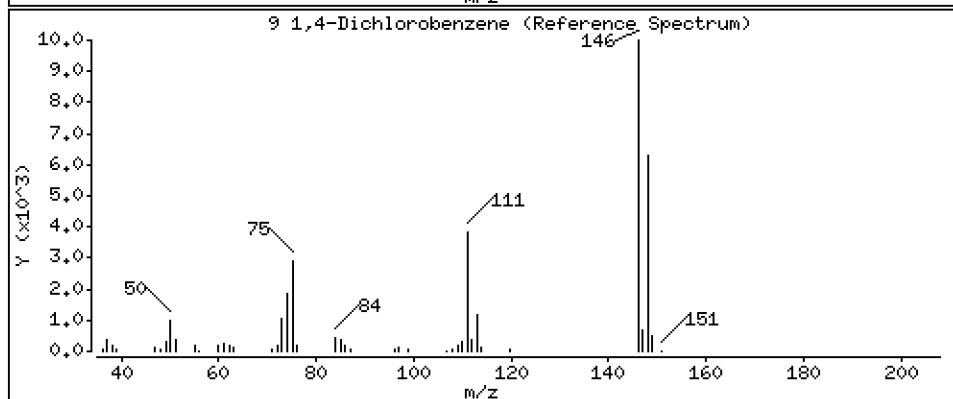
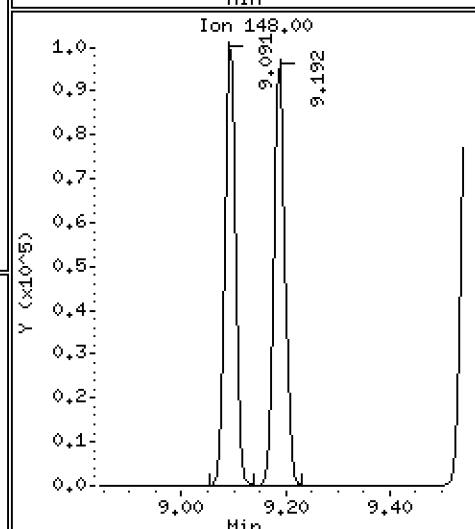
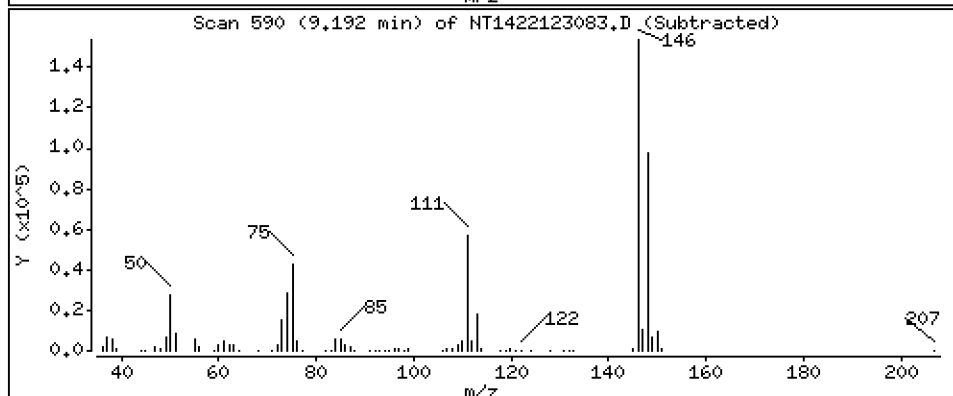
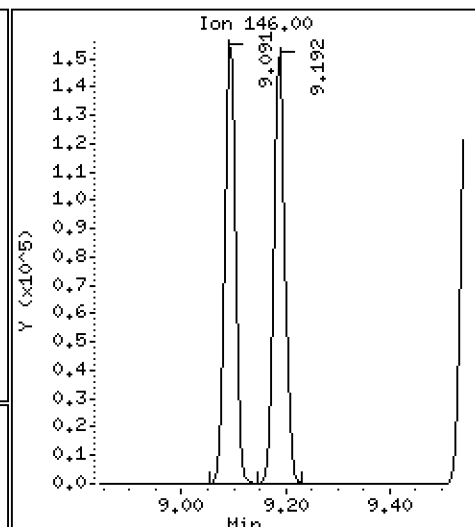
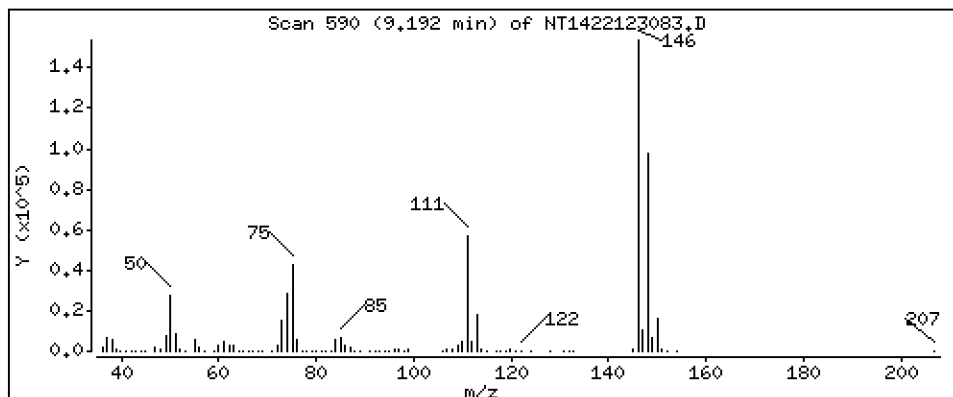
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 4,587 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

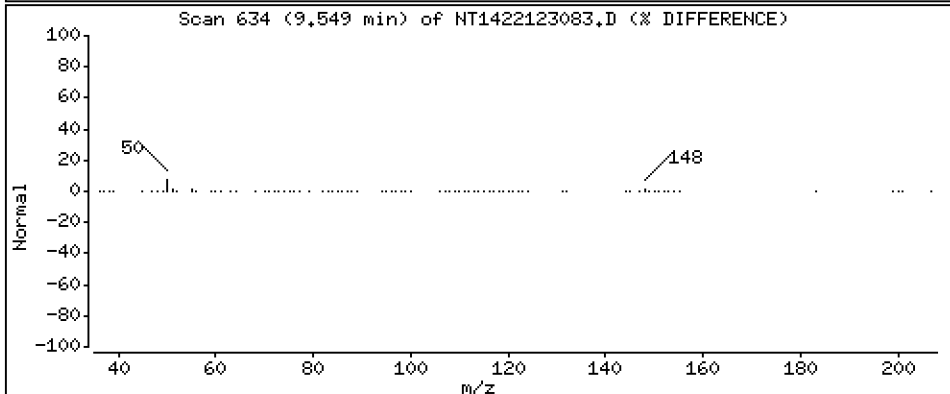
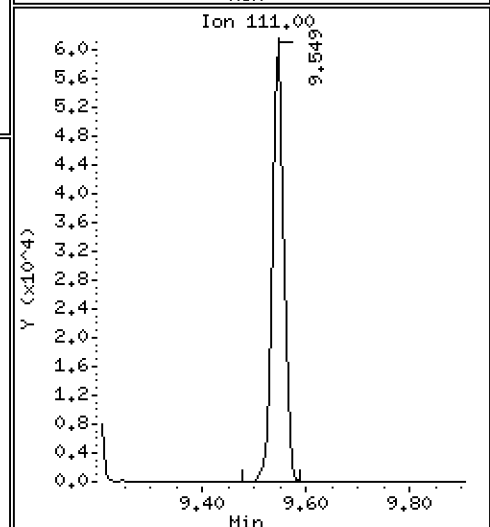
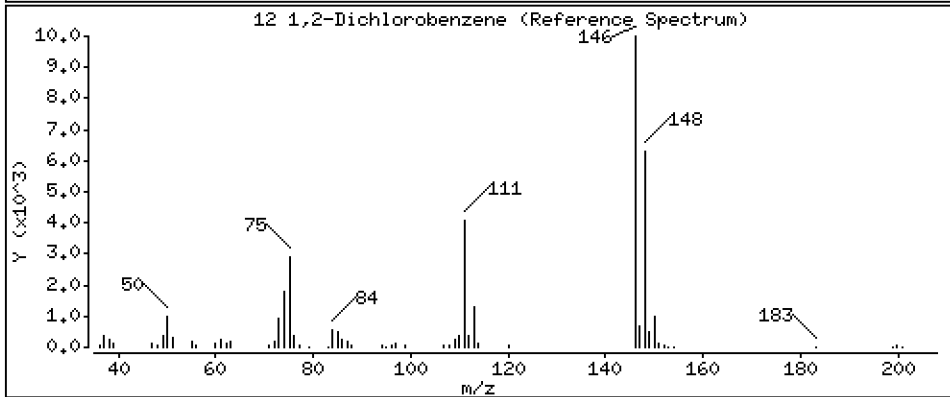
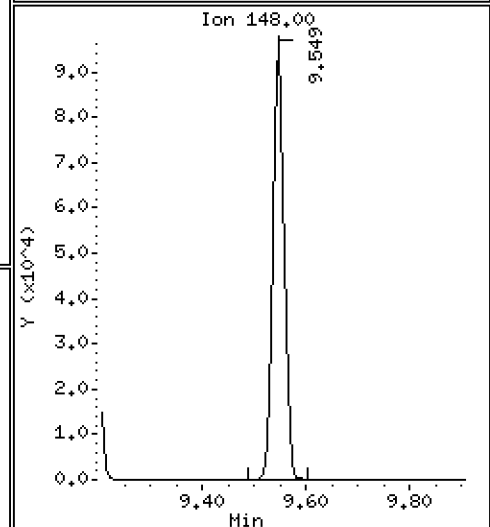
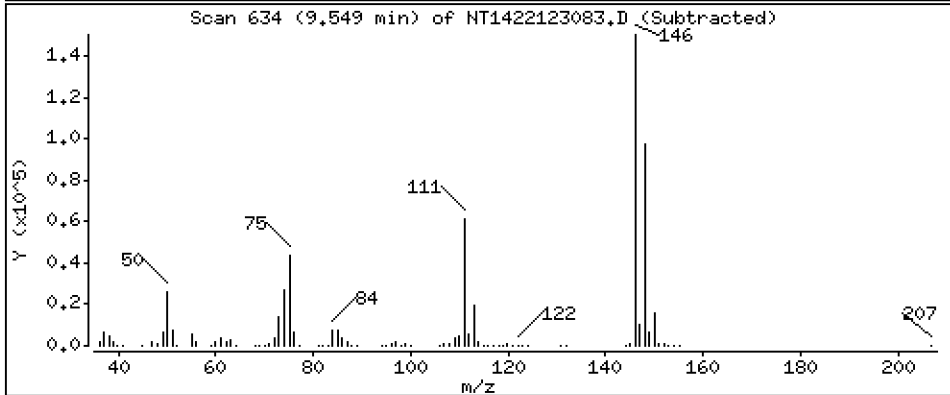
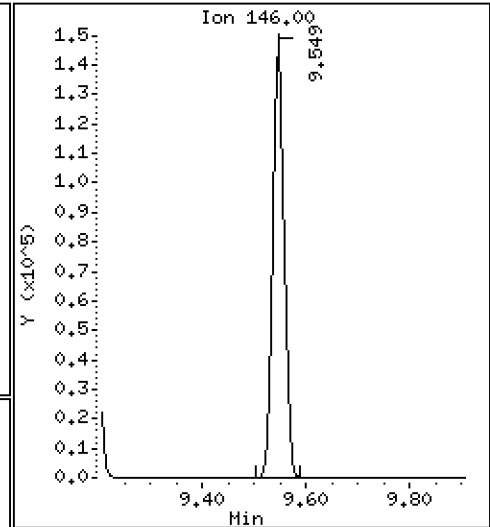
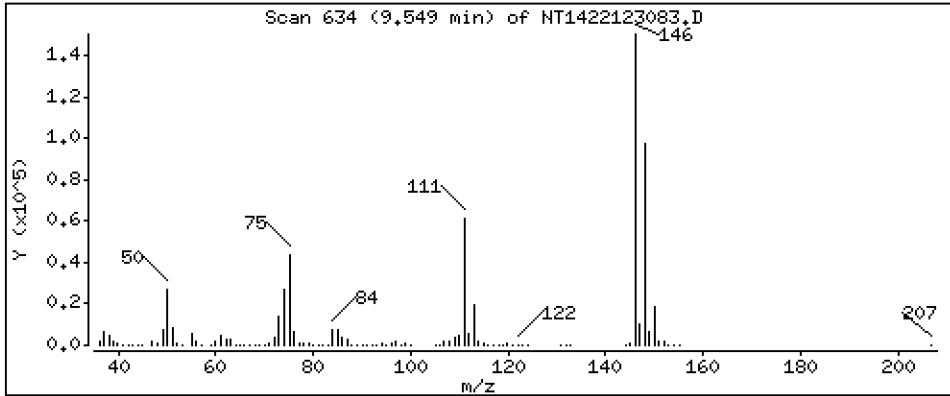
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 4,592 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

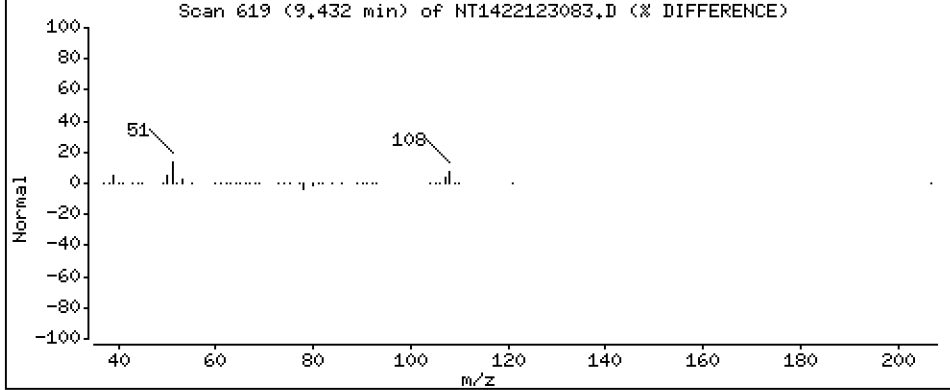
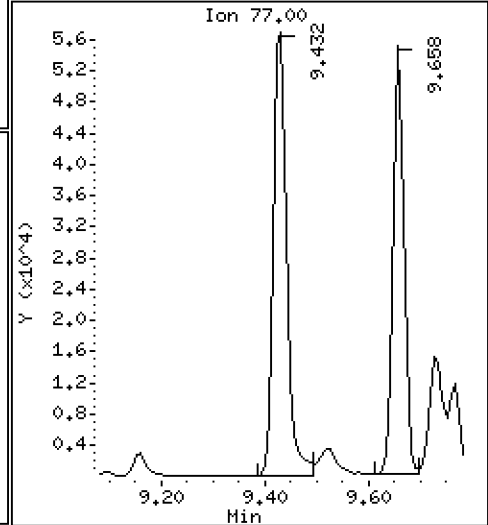
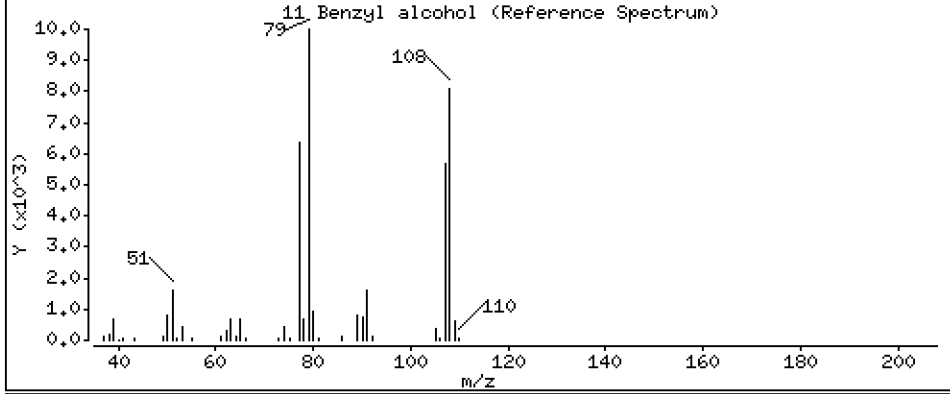
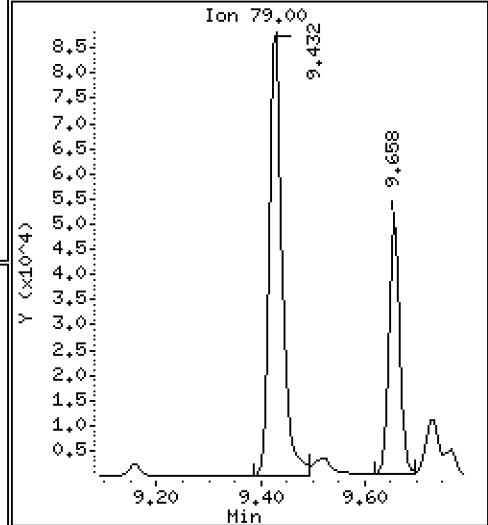
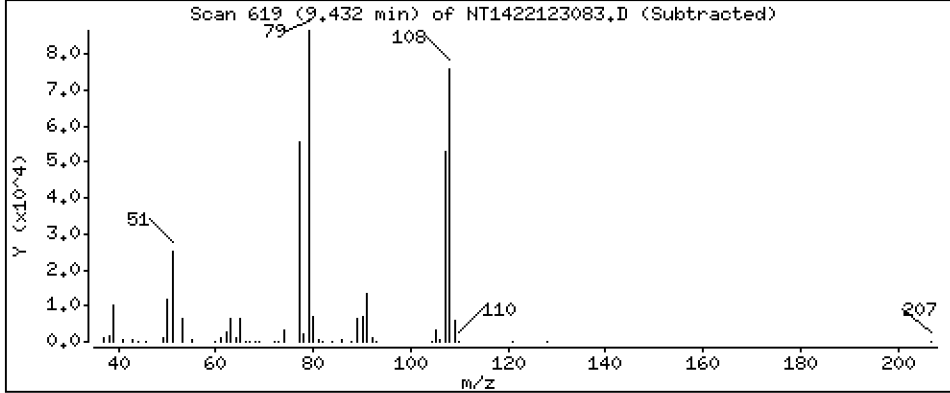
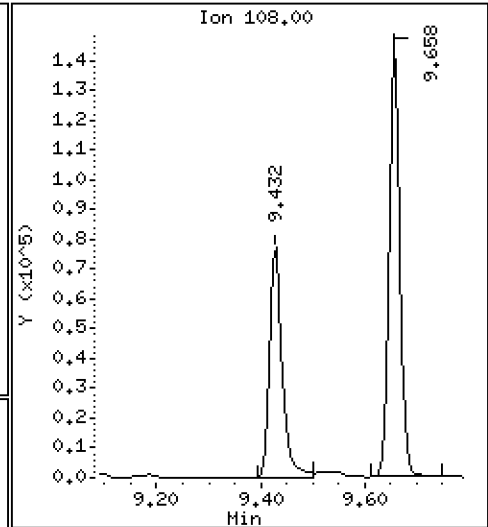
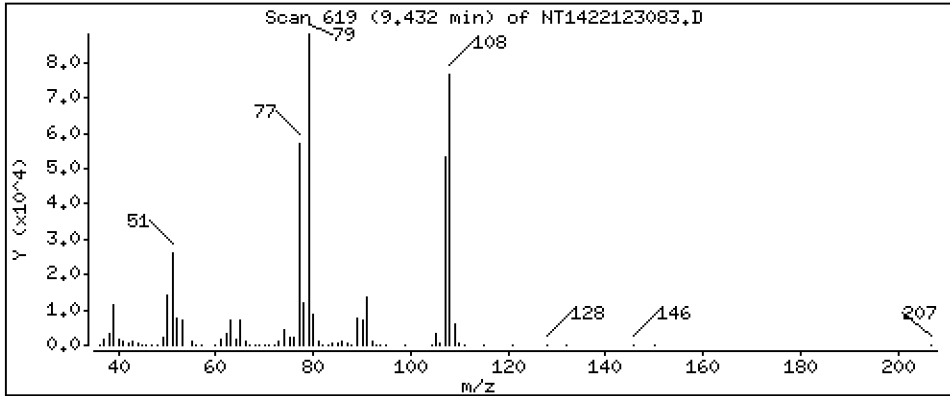
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 4,860 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

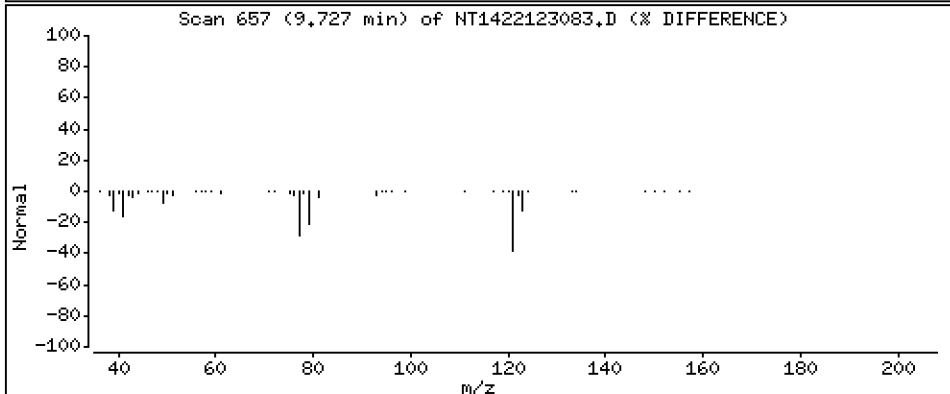
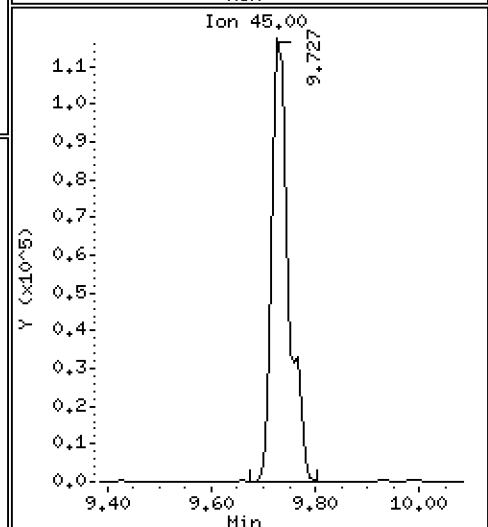
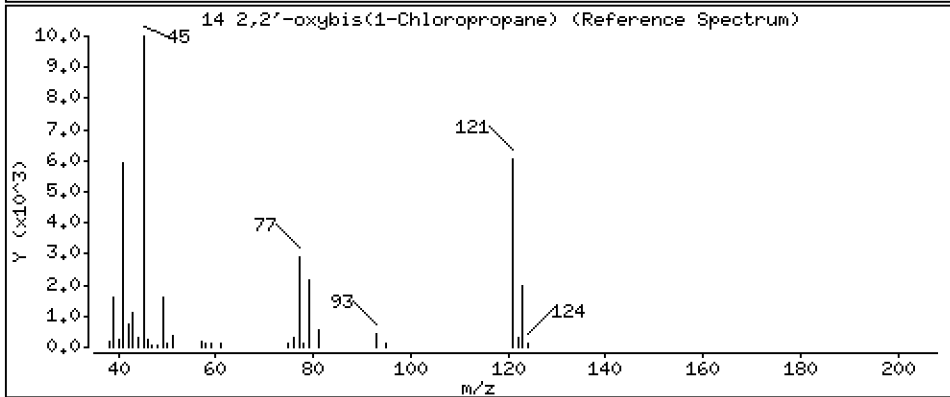
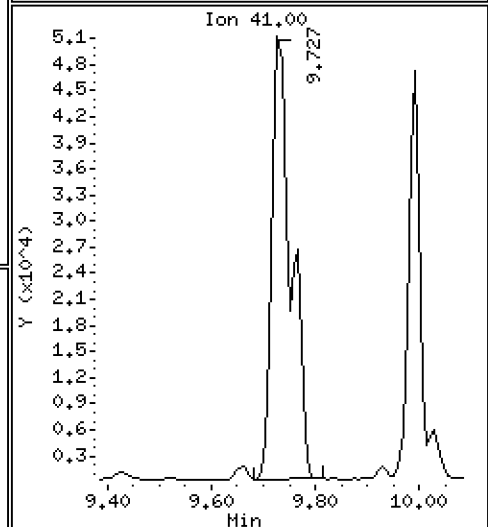
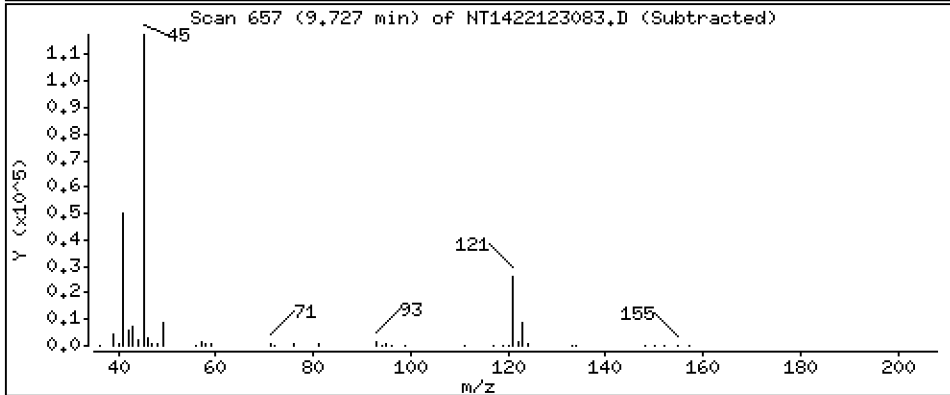
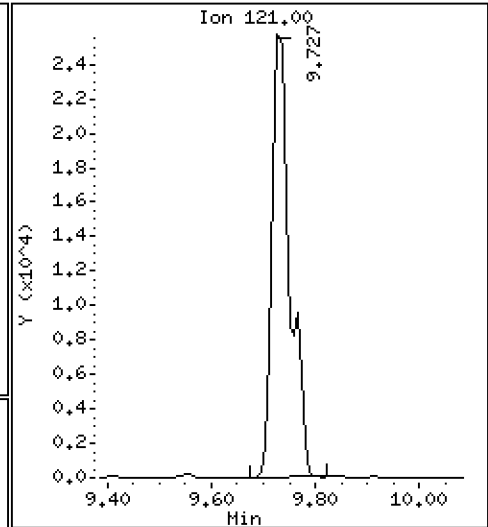
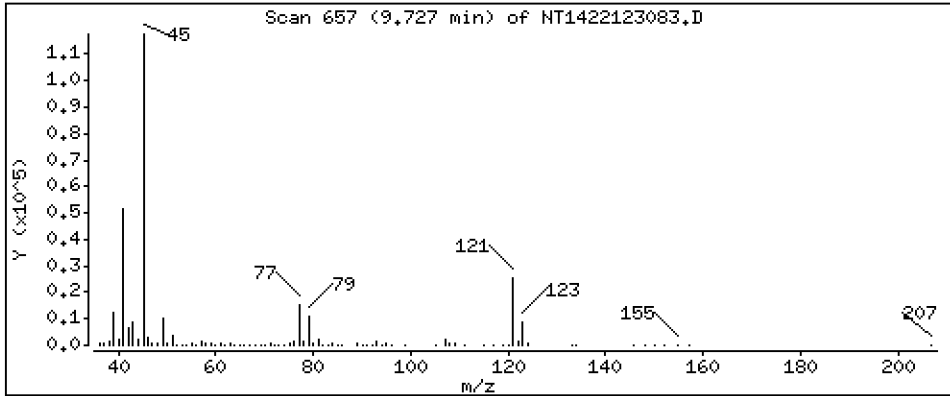
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 4.295 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

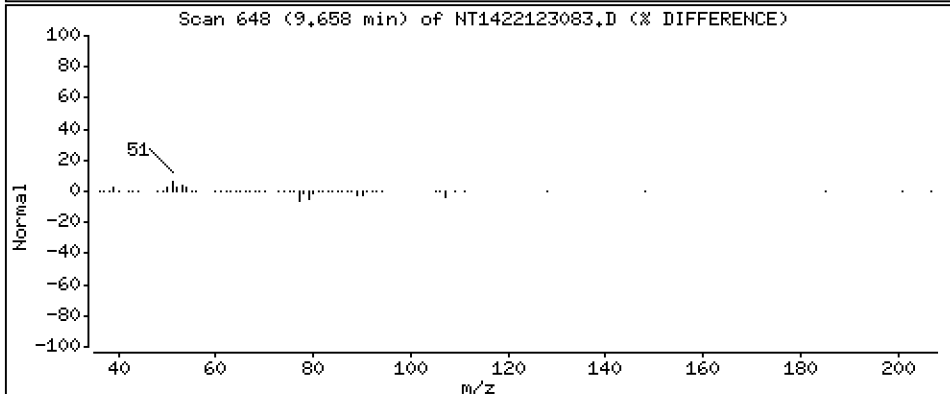
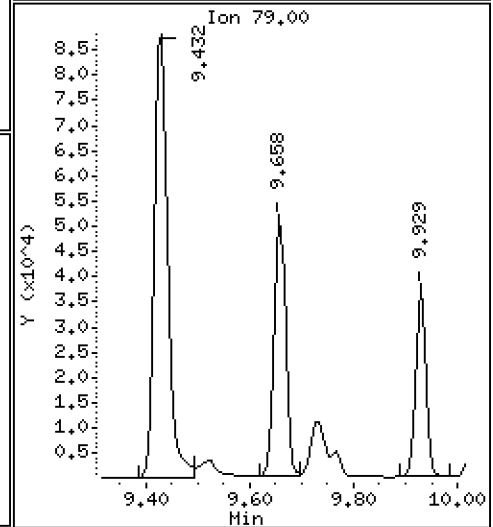
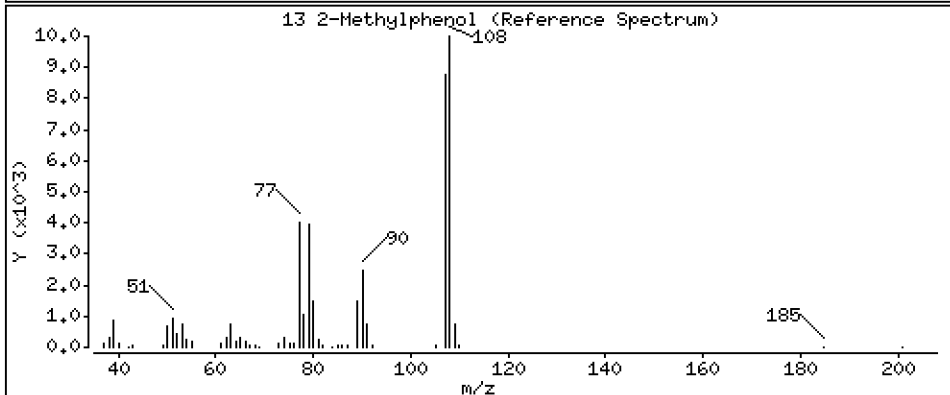
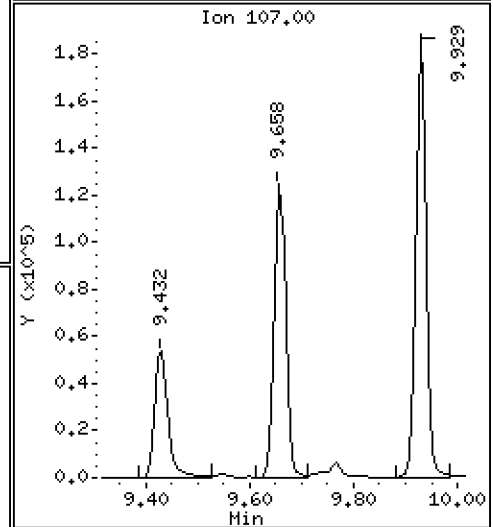
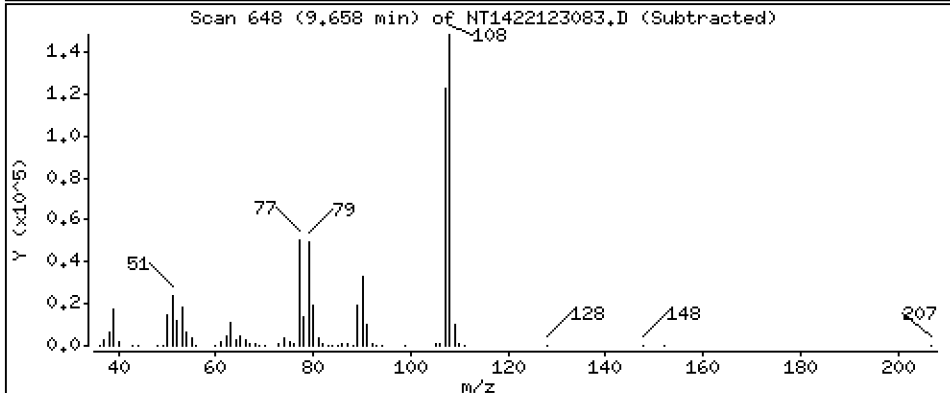
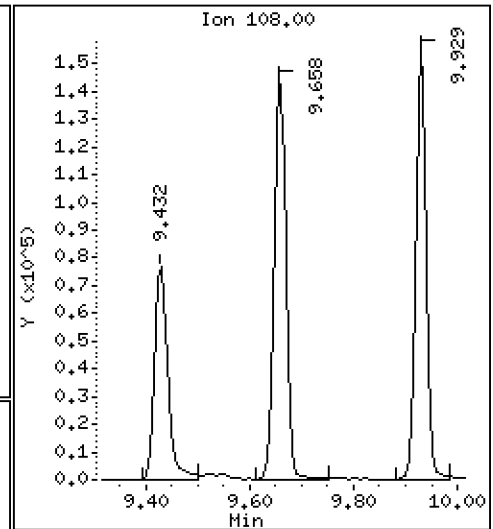
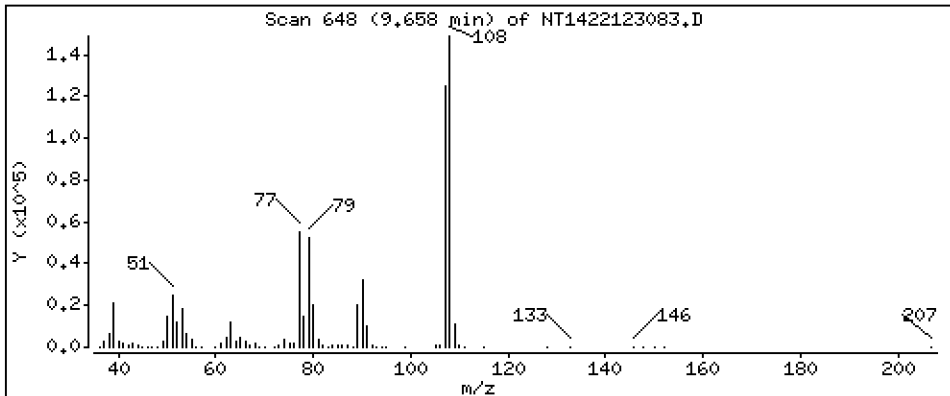
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 4.796 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

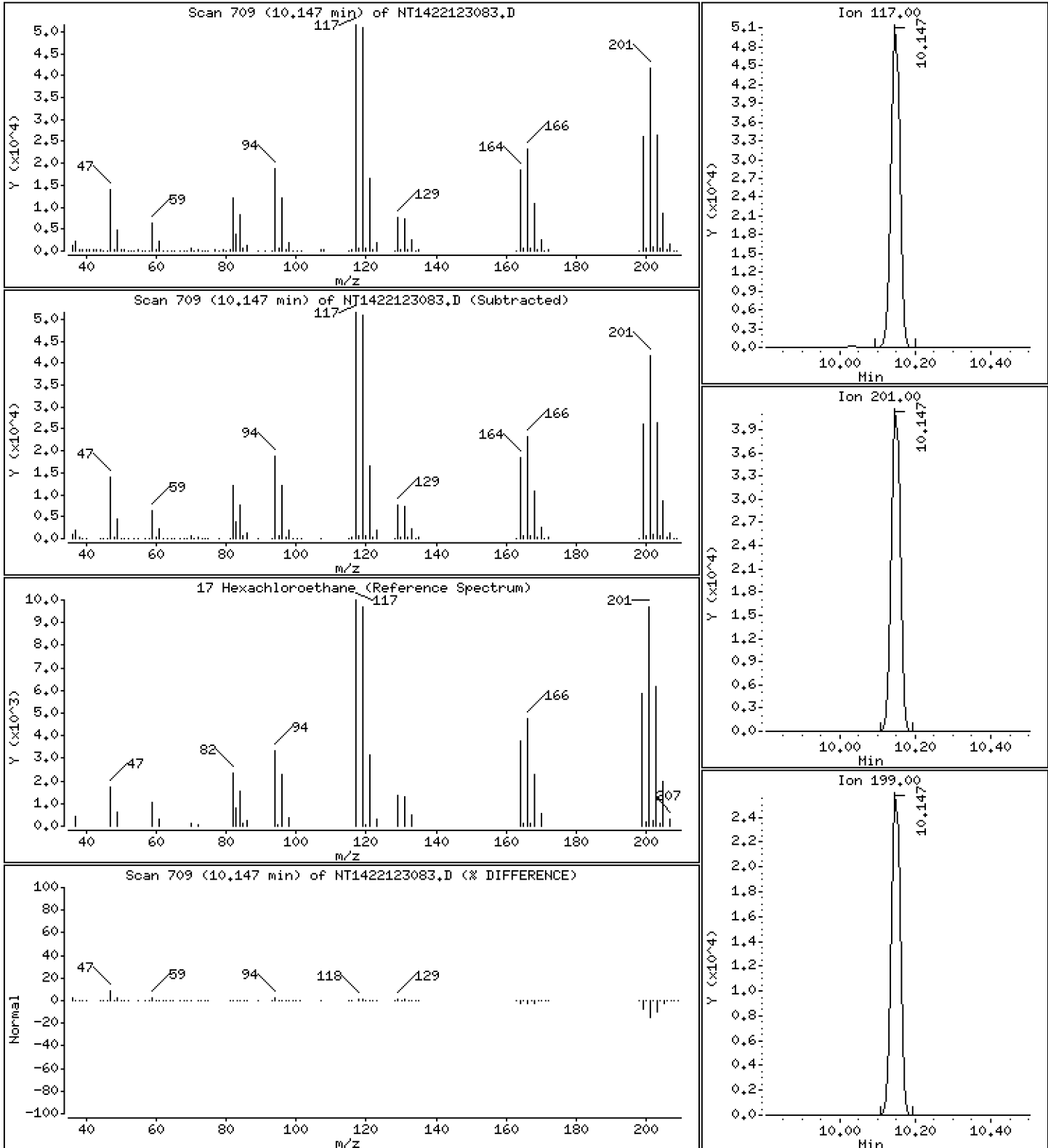
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

17 Hexachloroethane

Concentration: 4.373 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

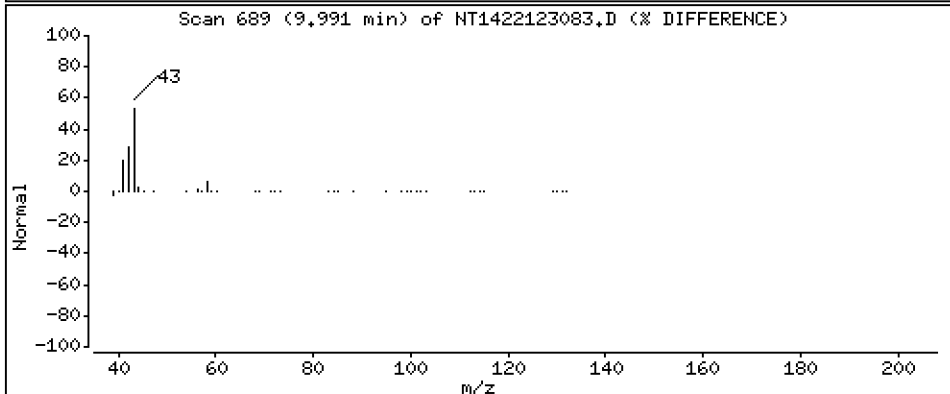
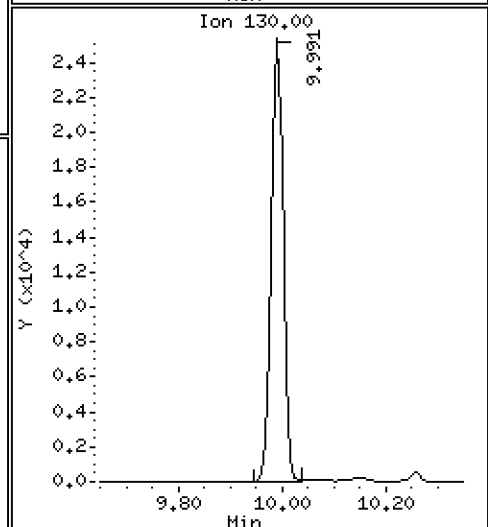
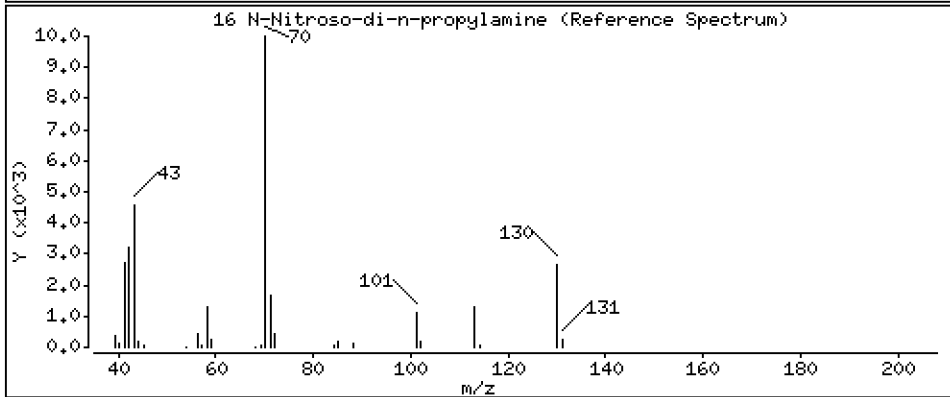
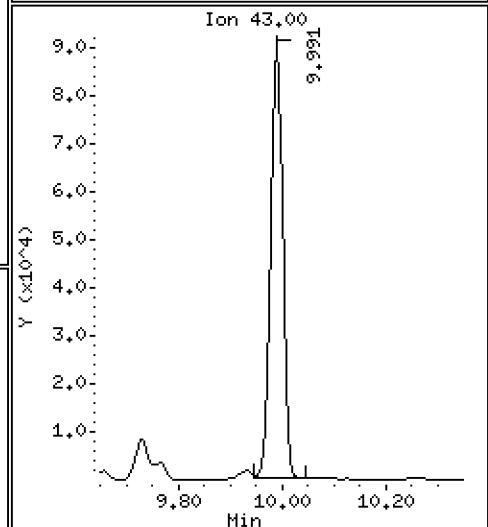
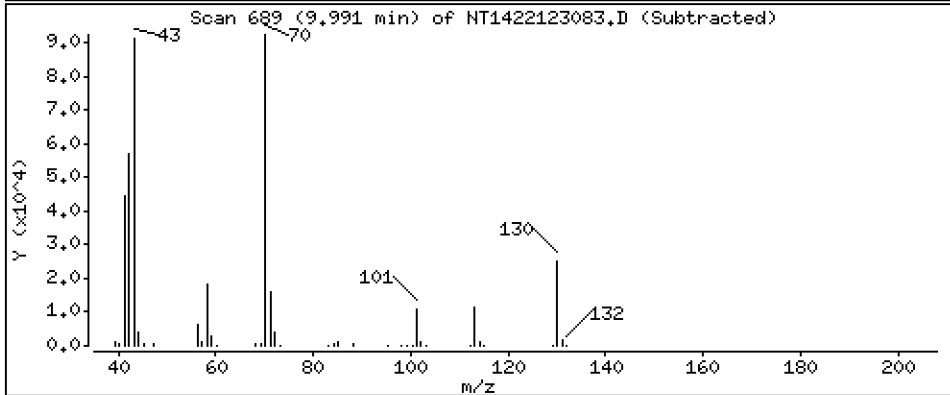
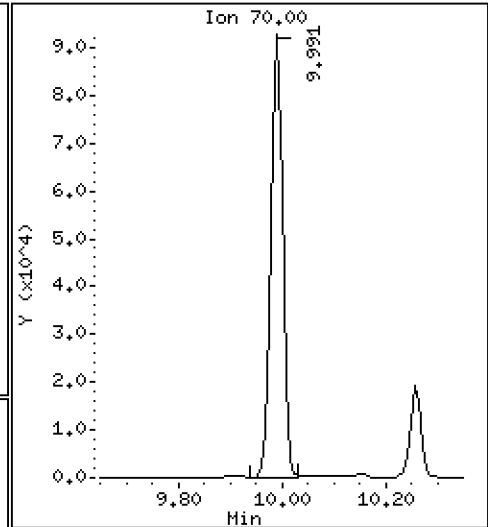
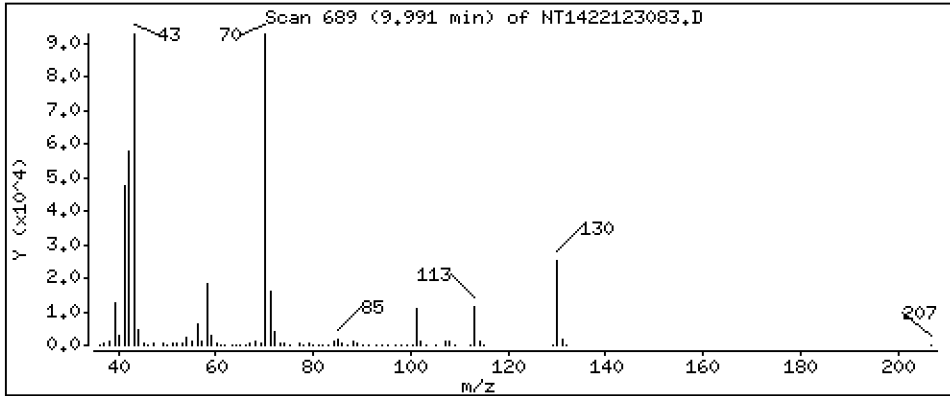
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 5,142 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

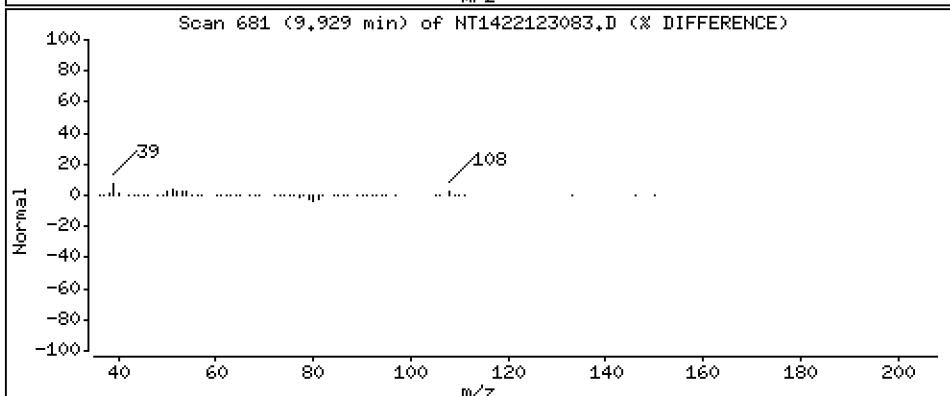
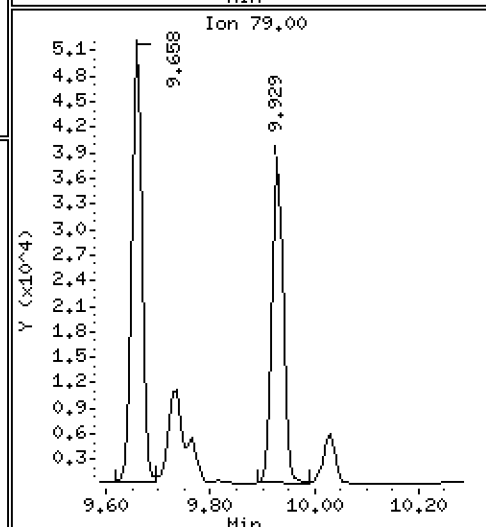
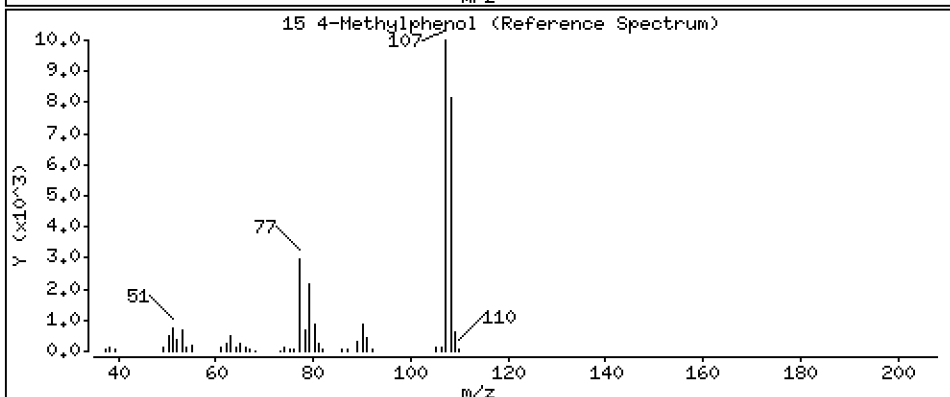
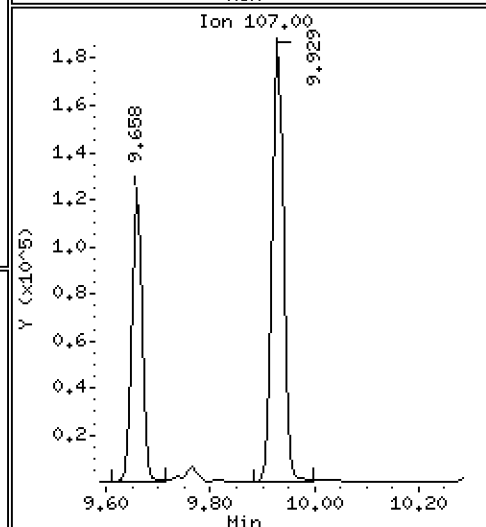
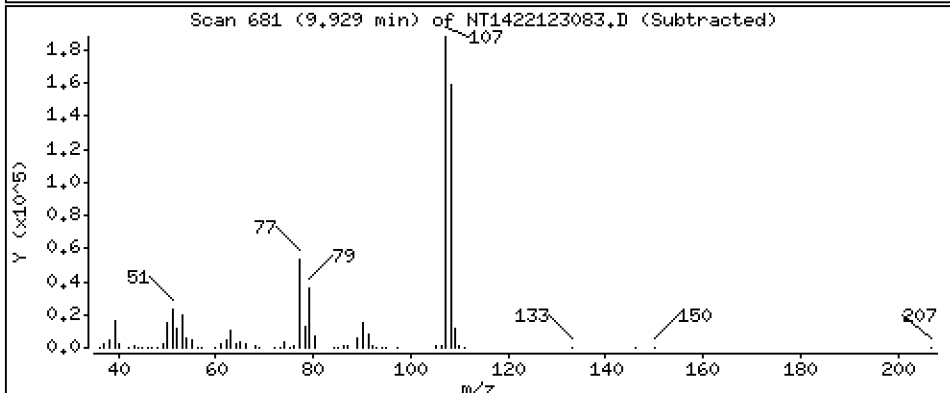
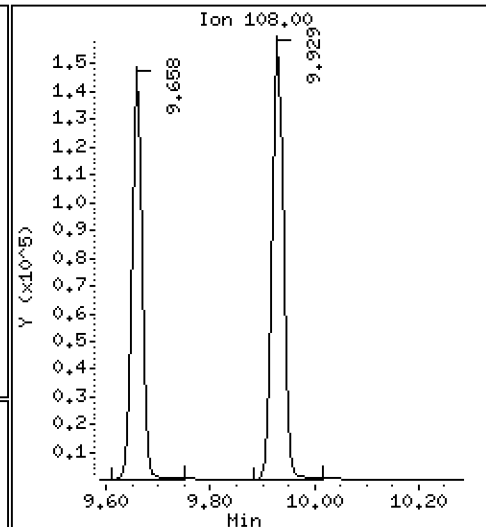
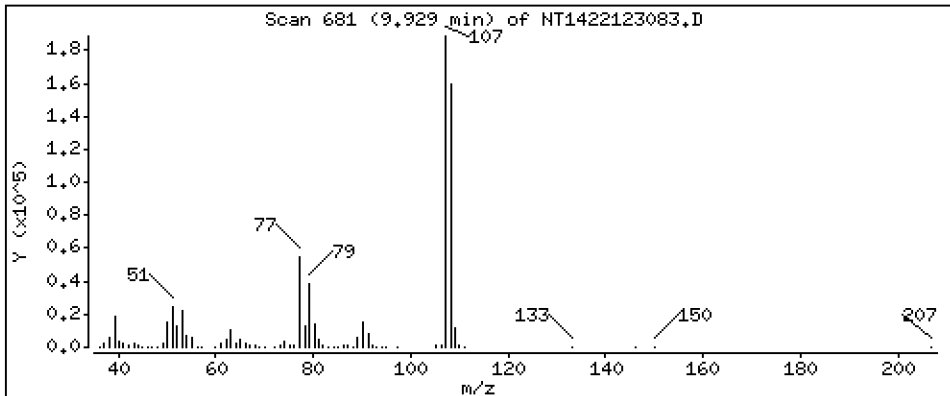
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 4,878 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

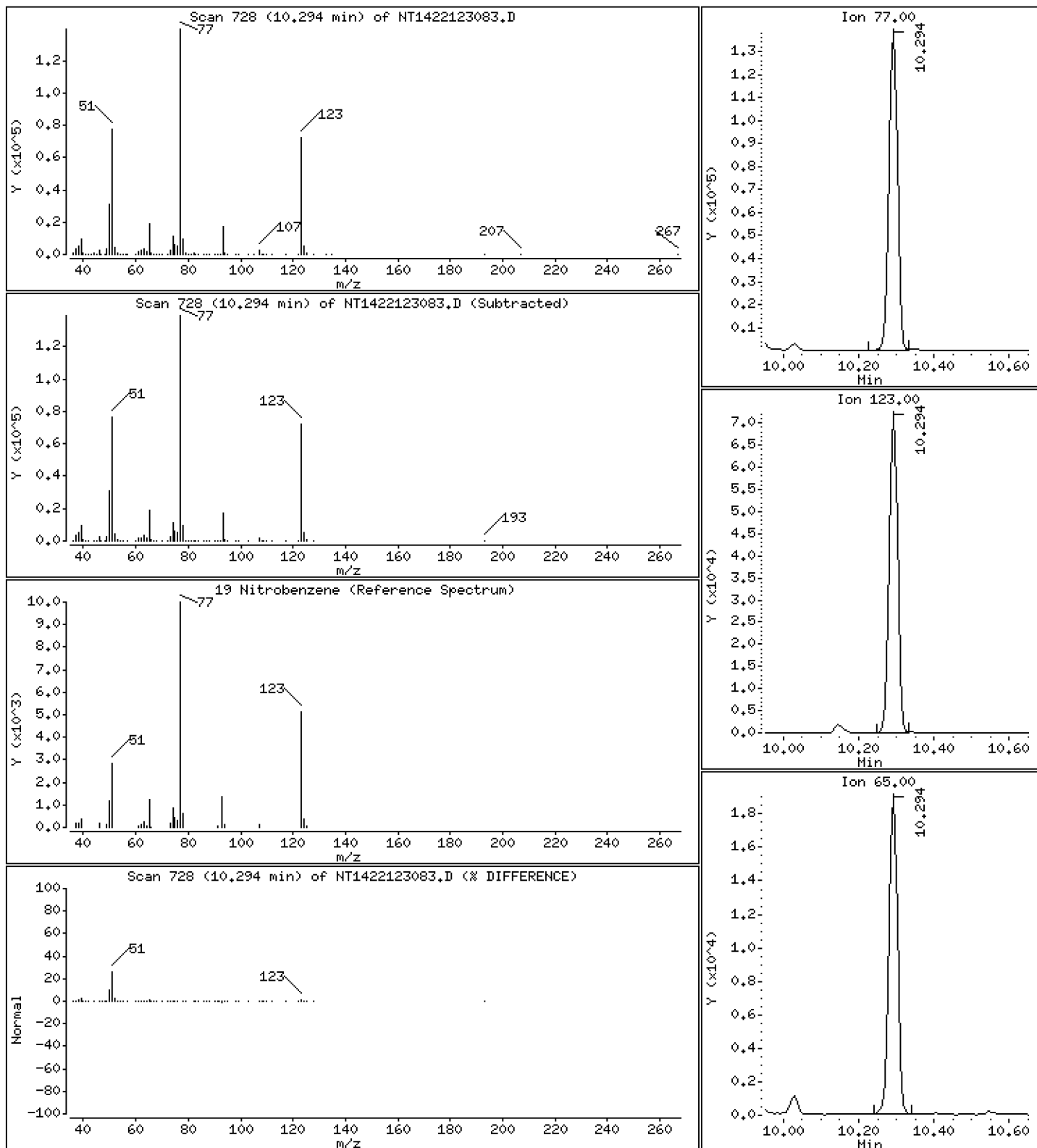
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 4,958 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

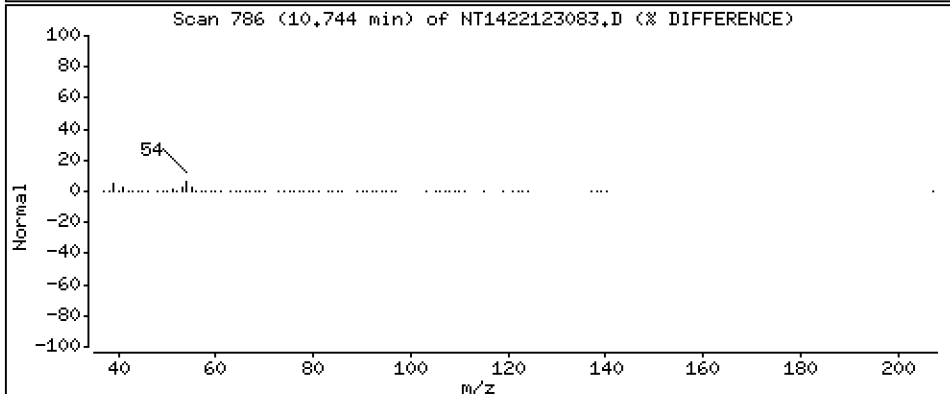
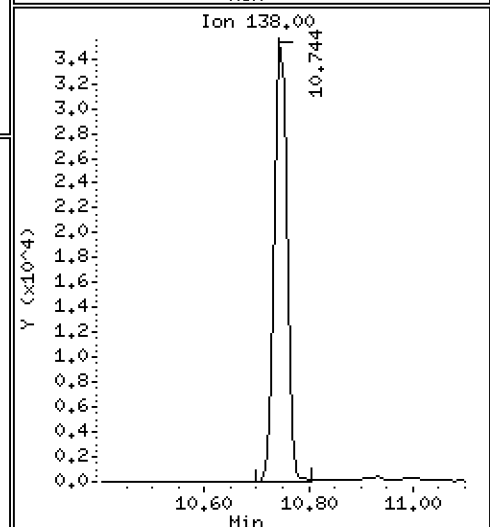
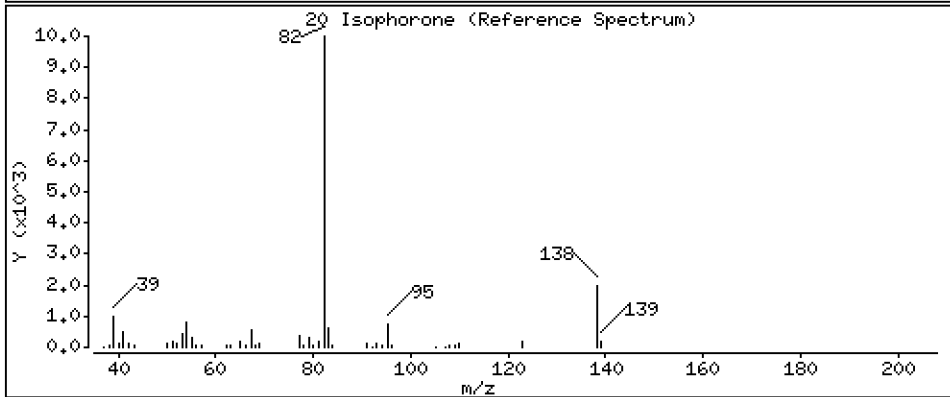
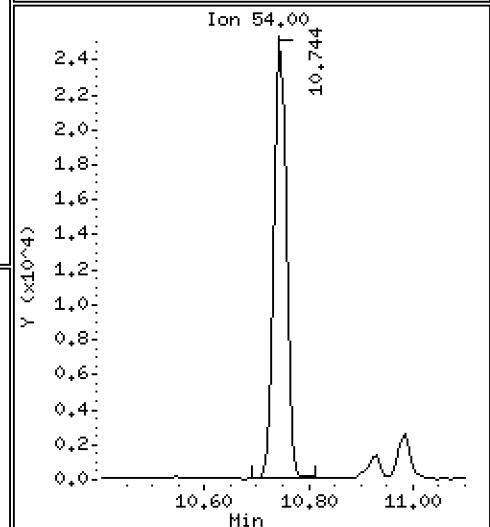
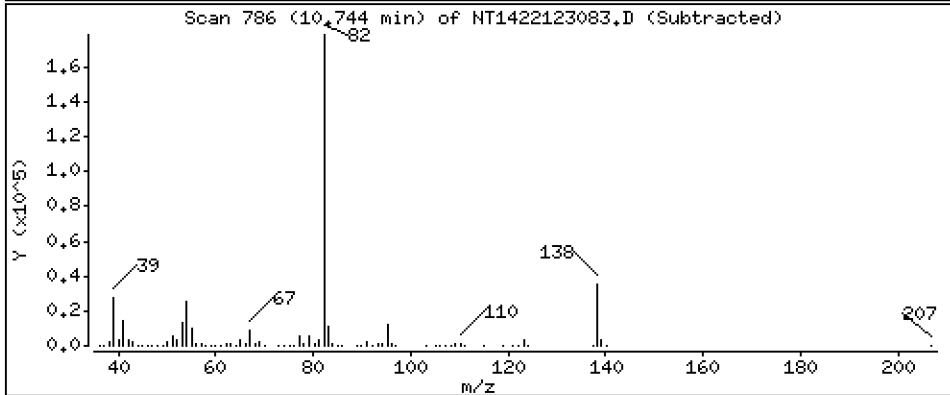
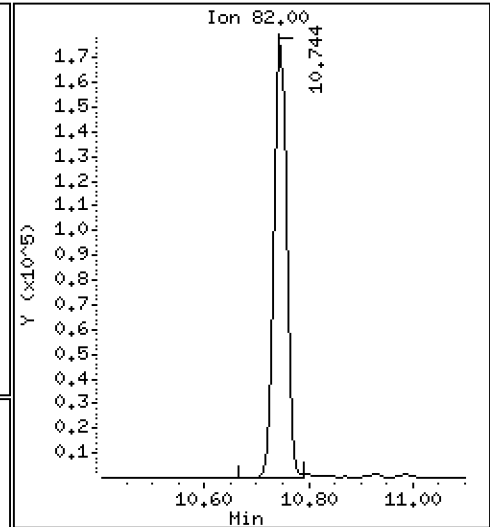
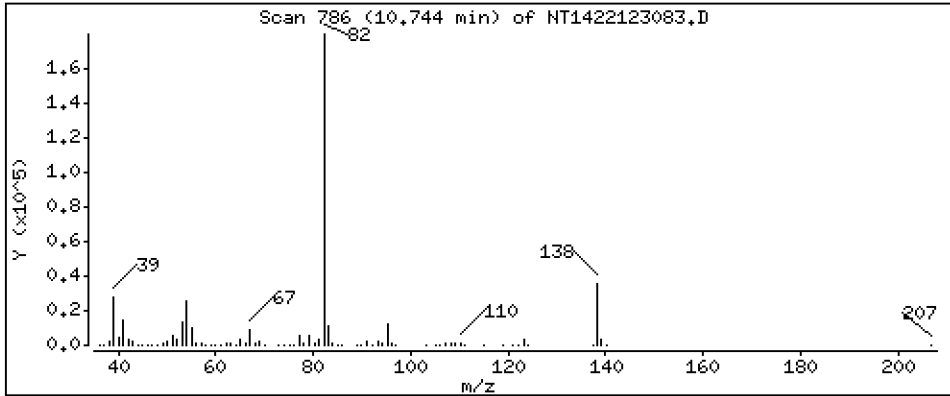
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 5,332 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

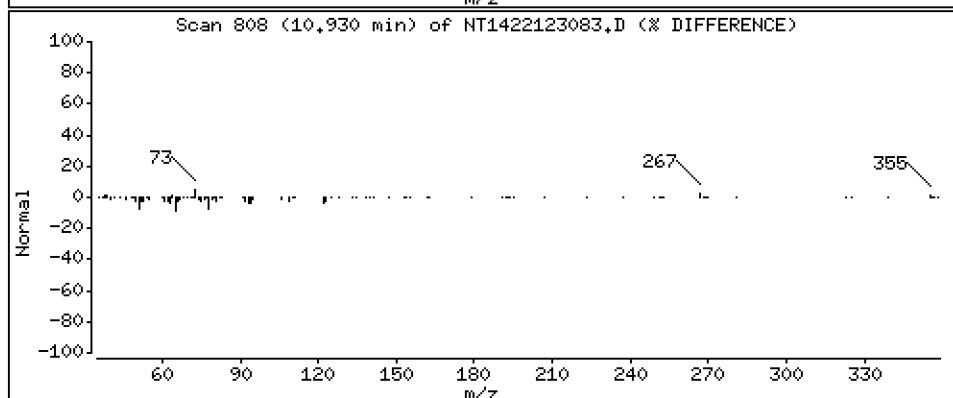
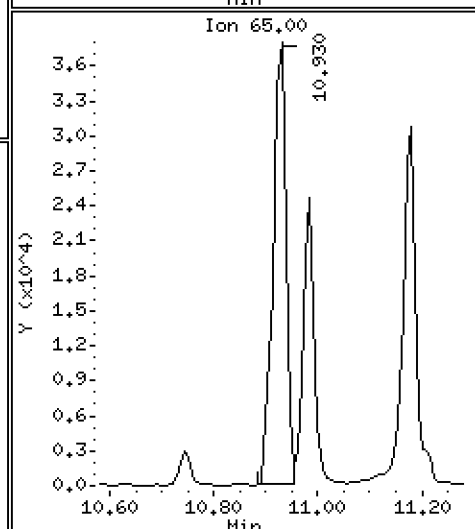
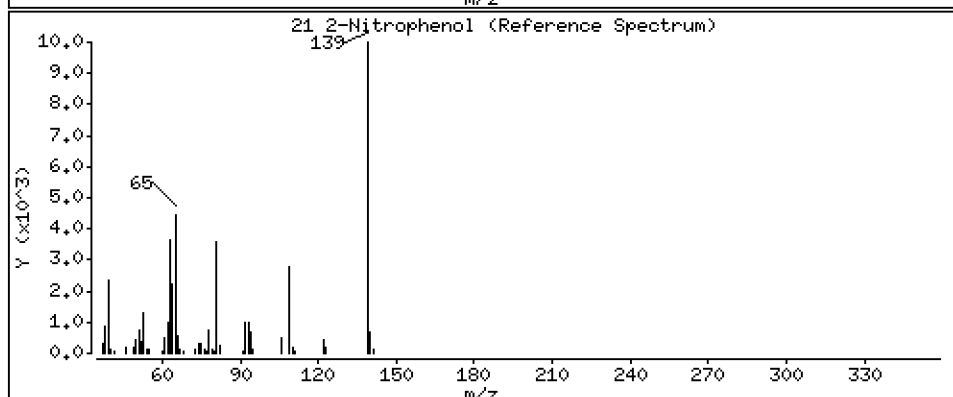
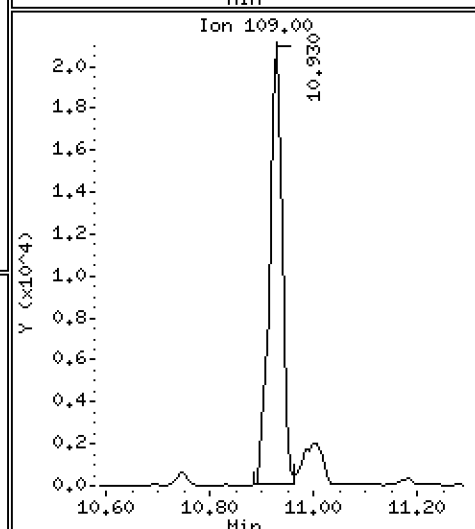
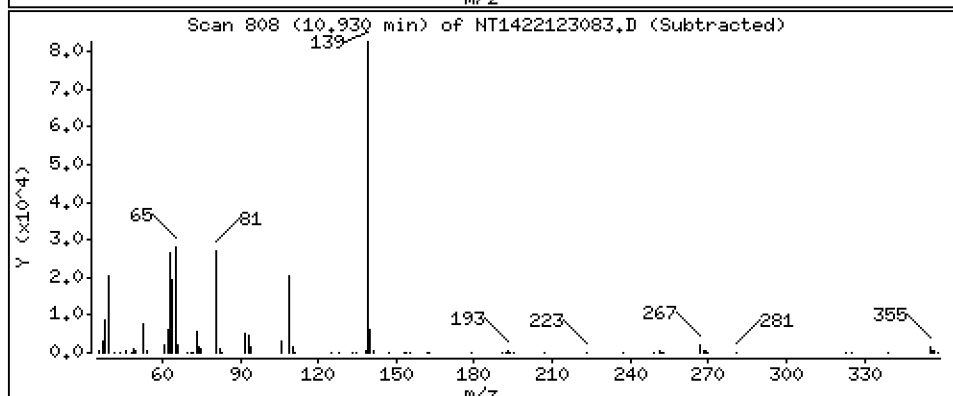
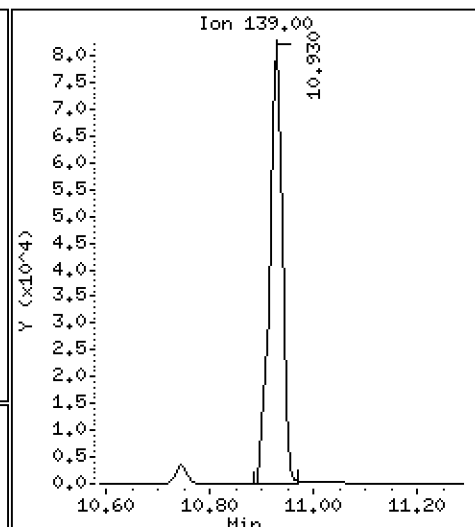
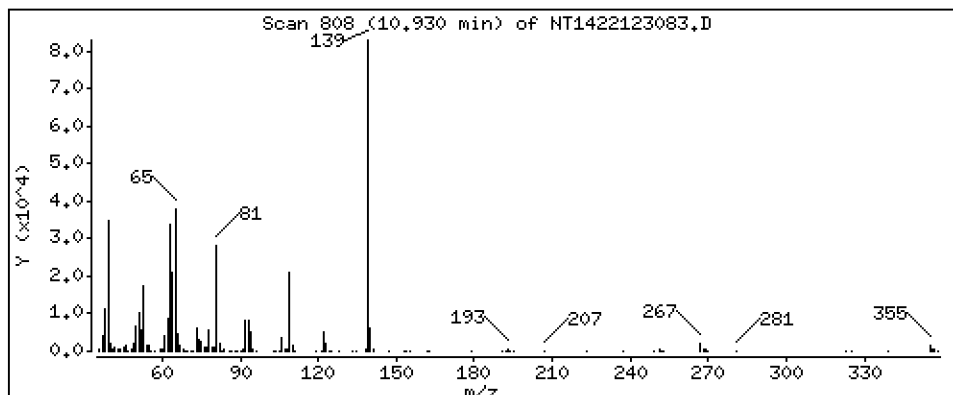
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 5,334 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

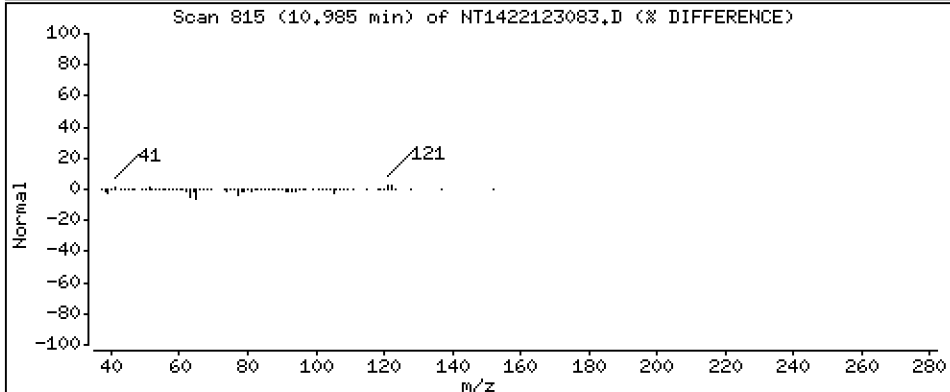
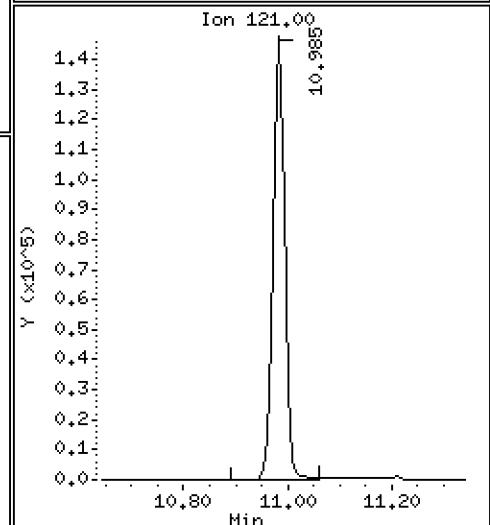
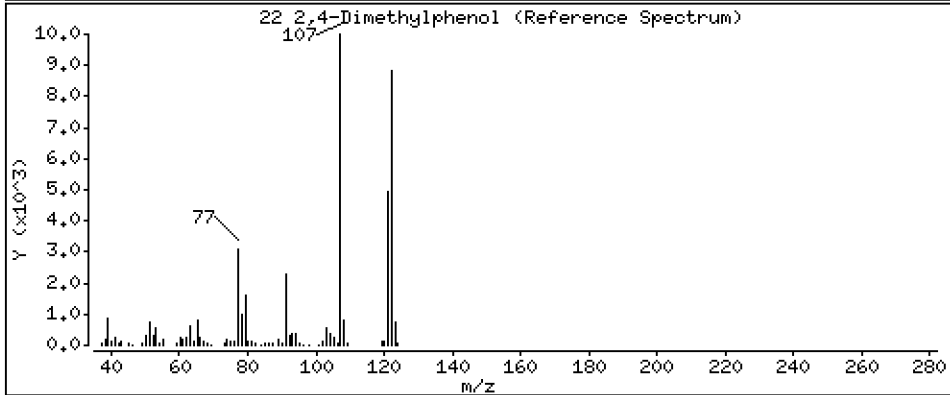
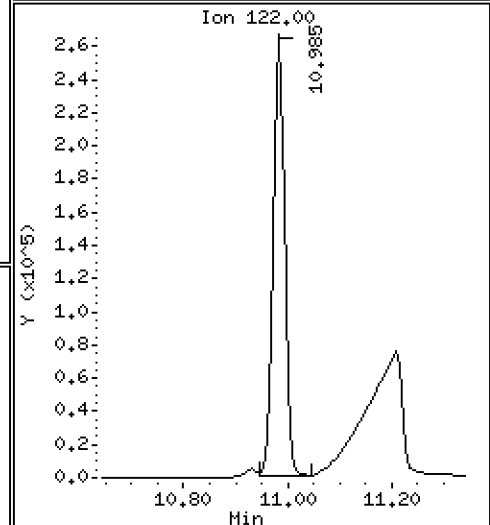
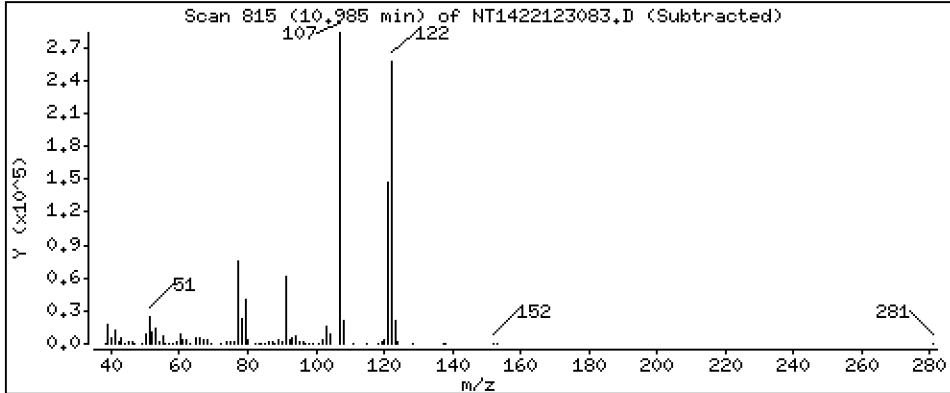
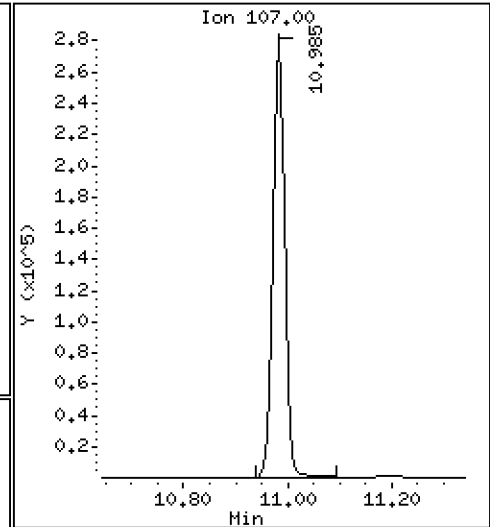
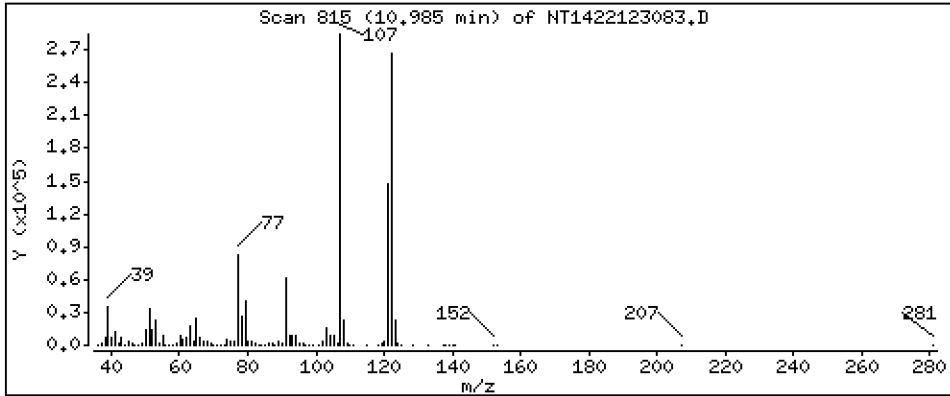
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 9,468 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

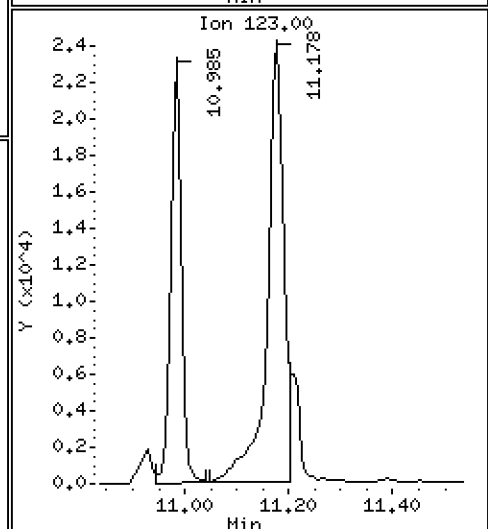
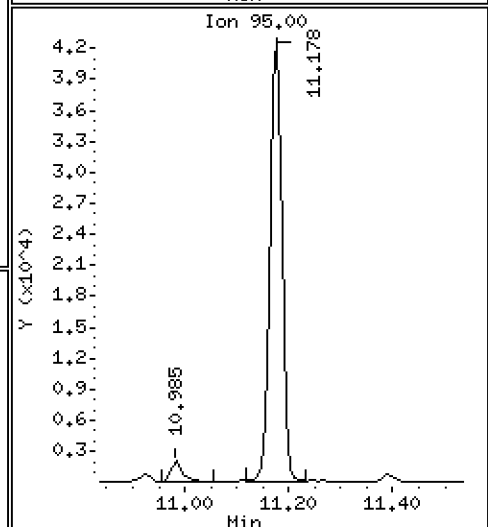
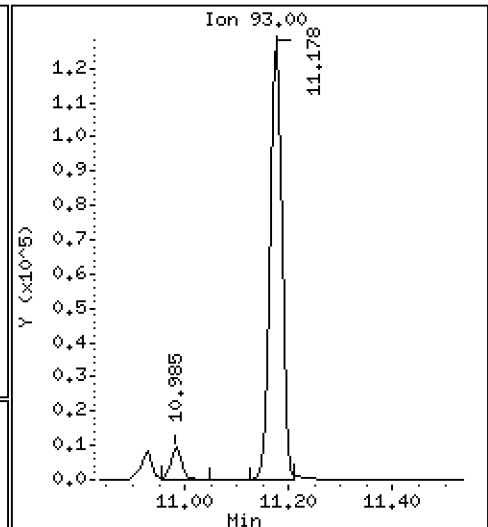
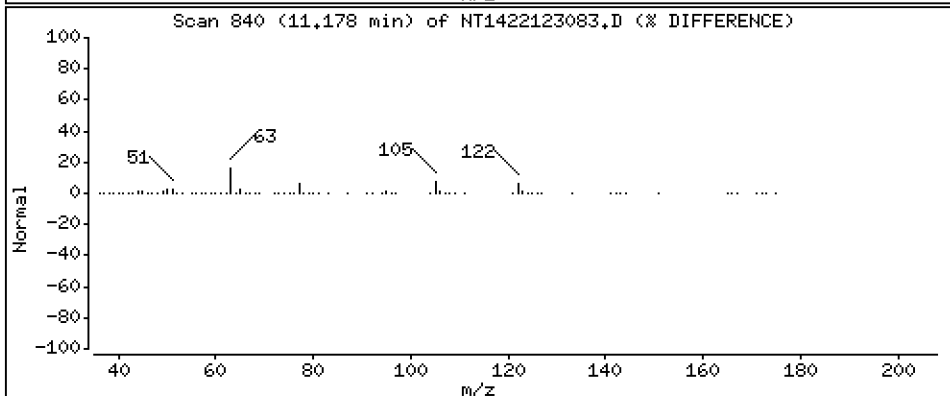
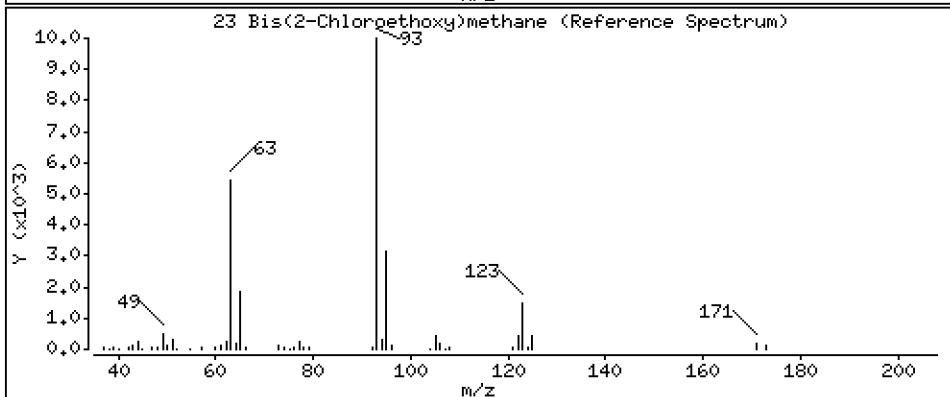
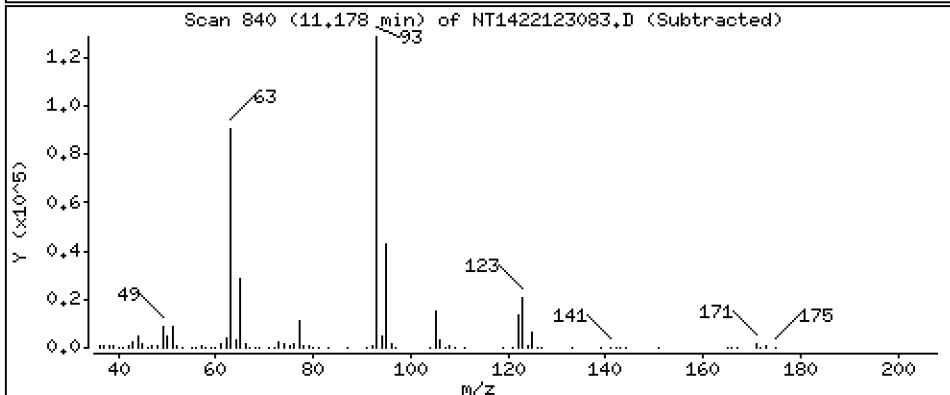
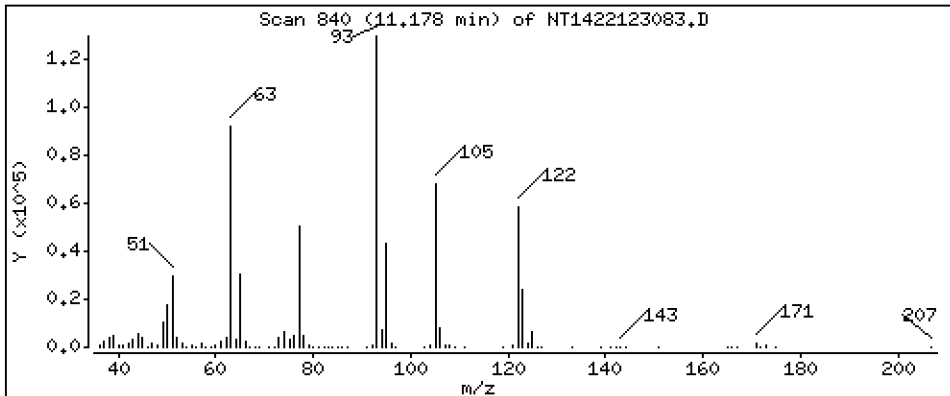
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 4,609 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

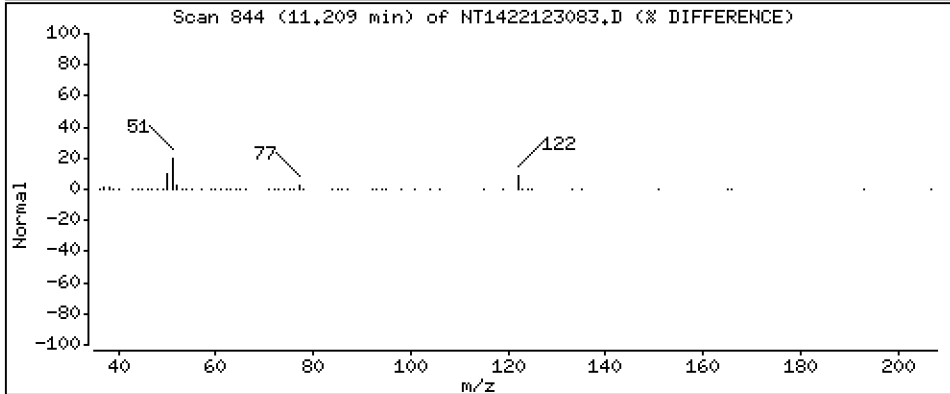
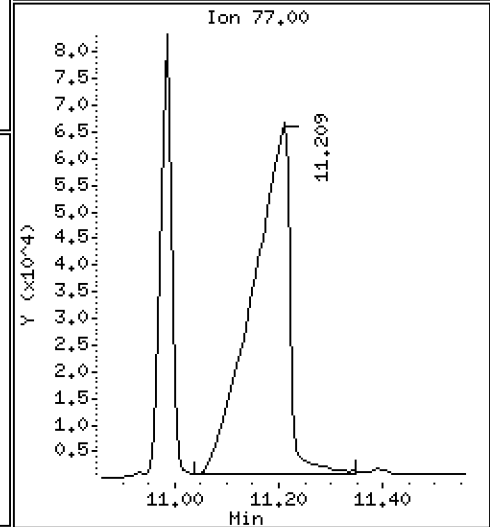
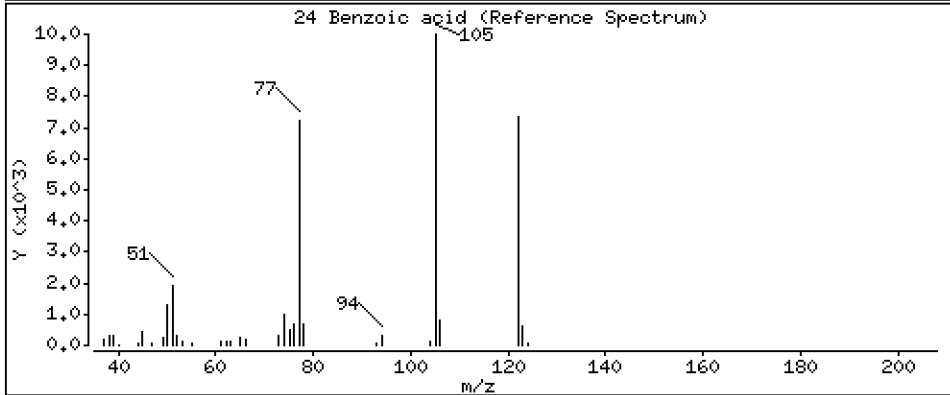
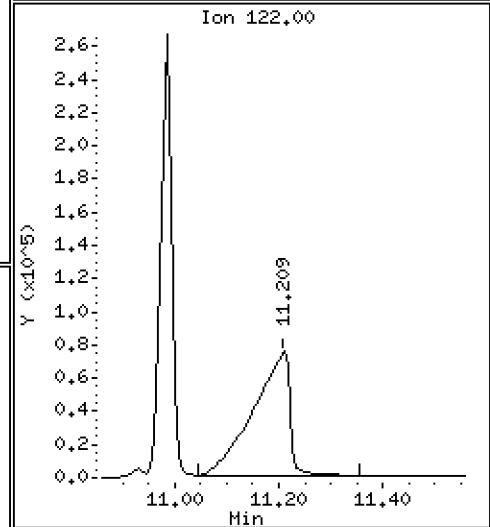
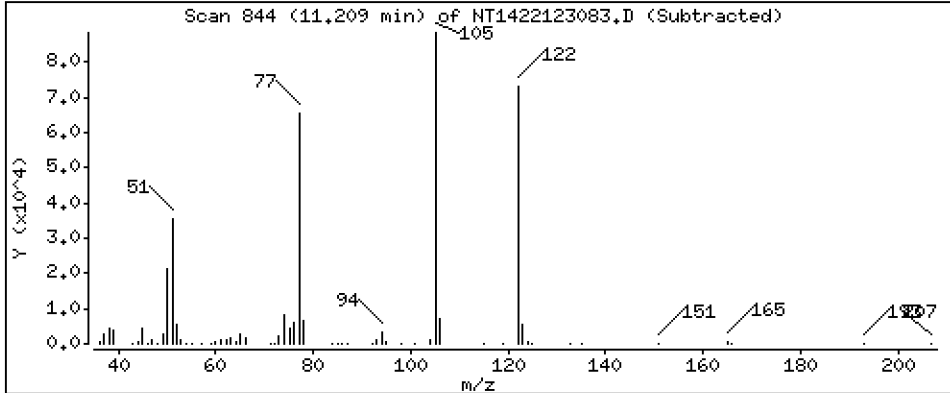
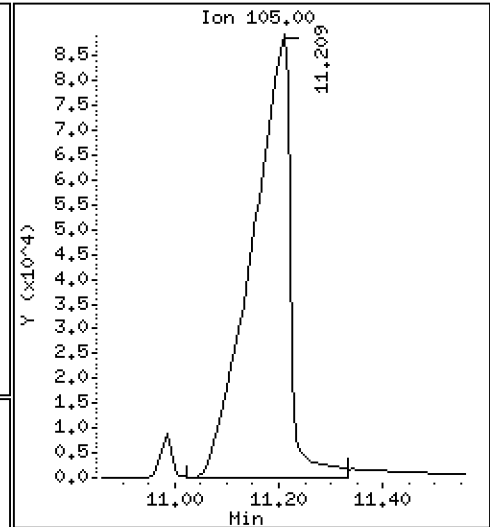
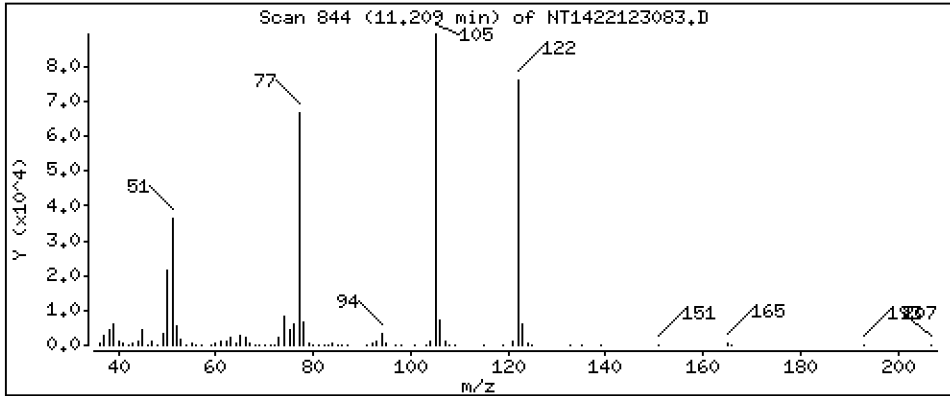
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 16.47 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

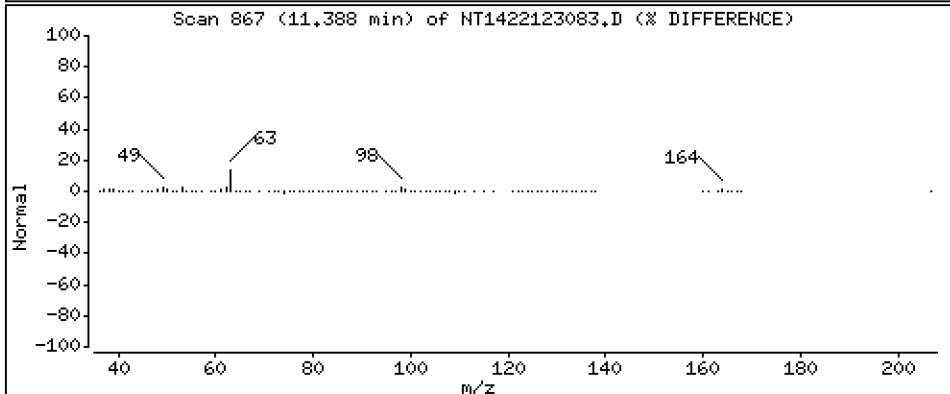
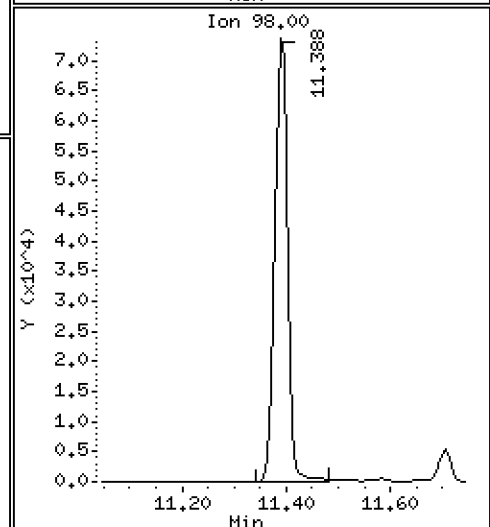
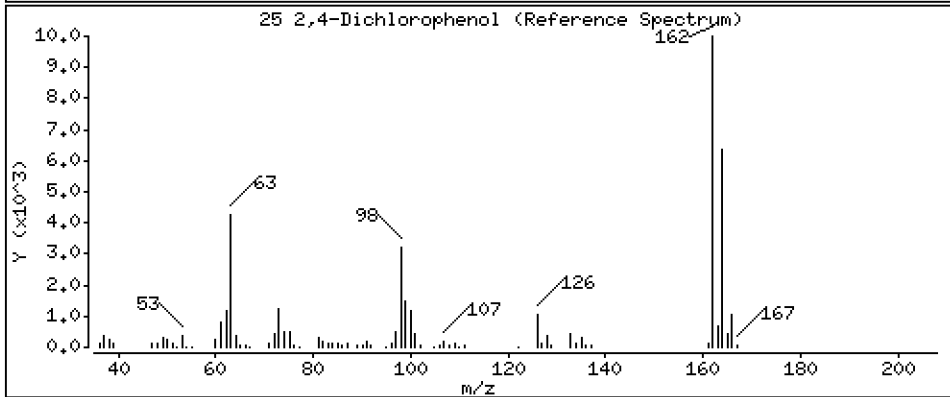
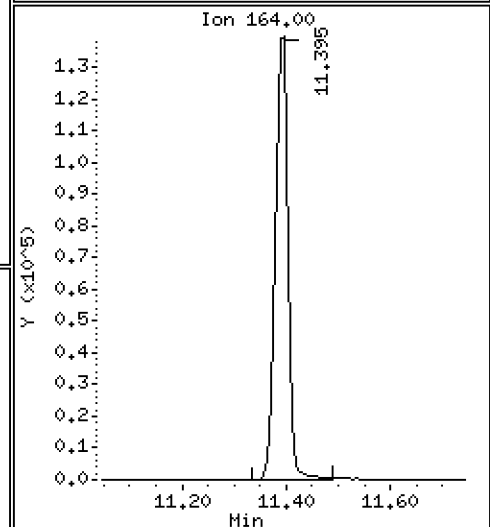
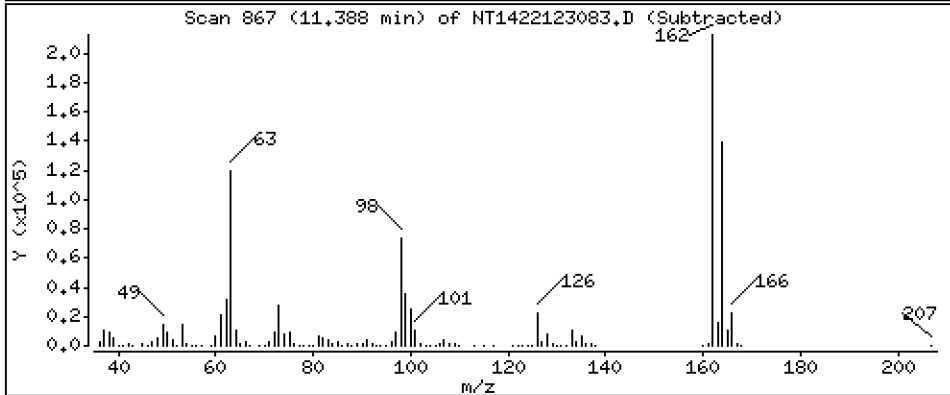
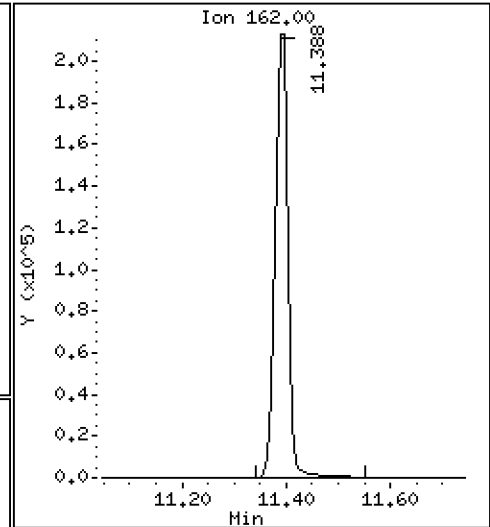
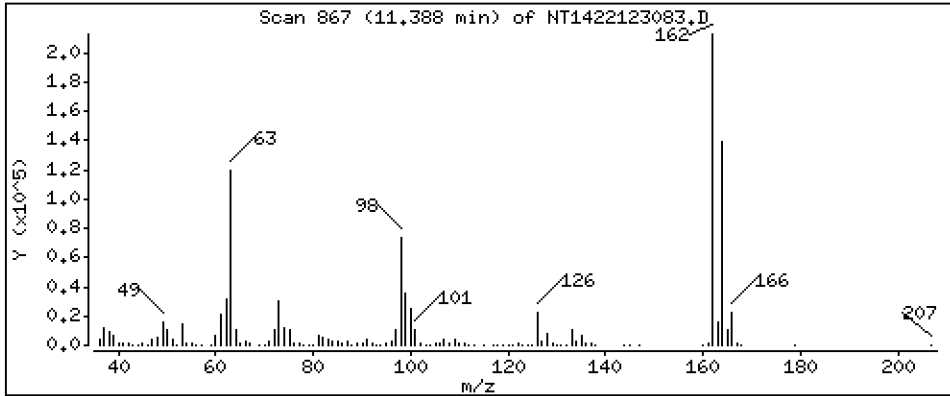
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 10,21 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

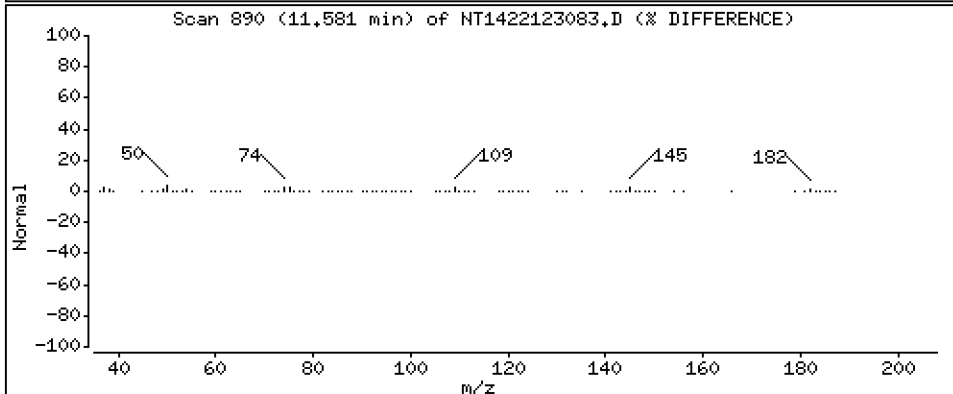
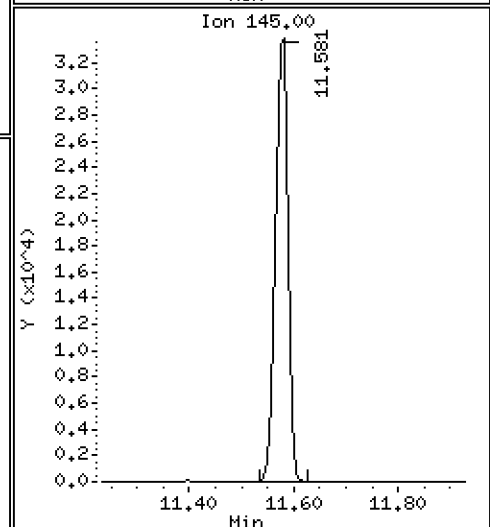
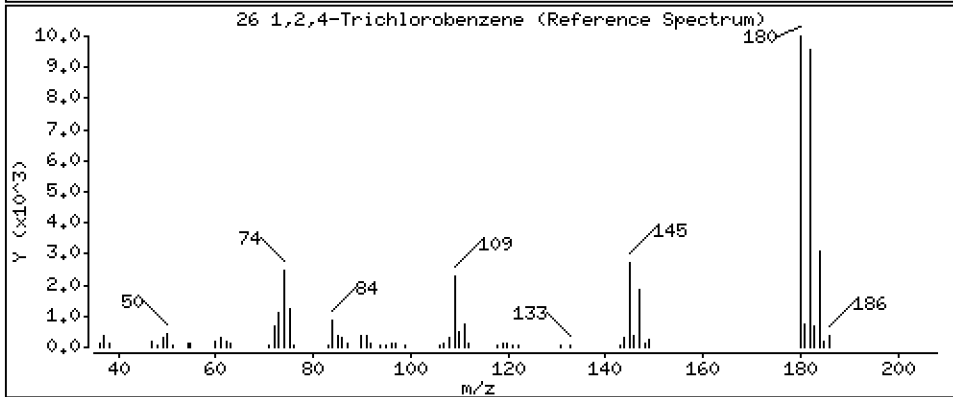
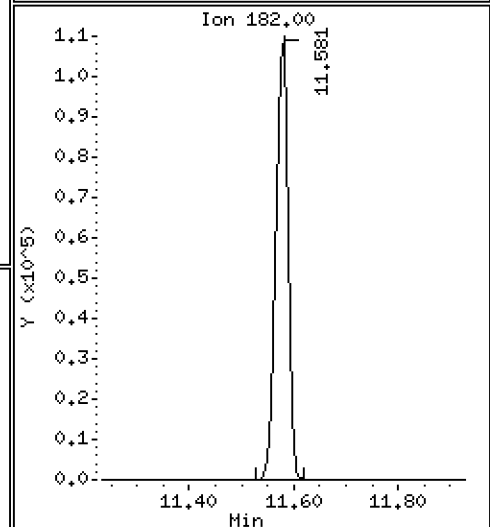
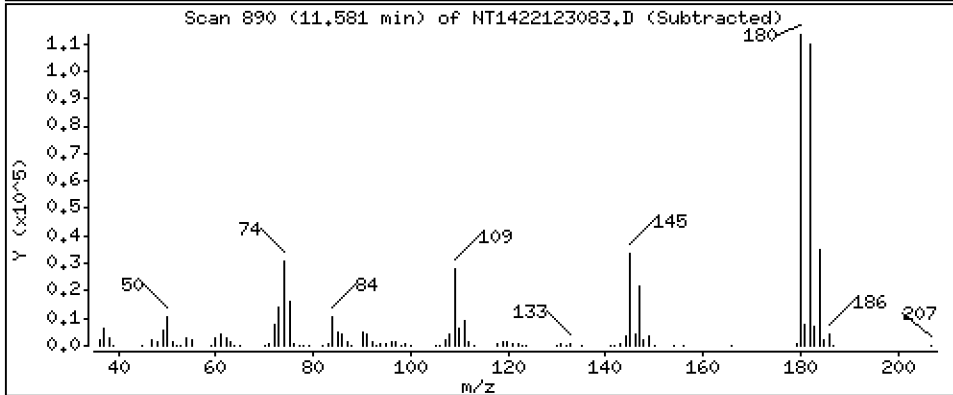
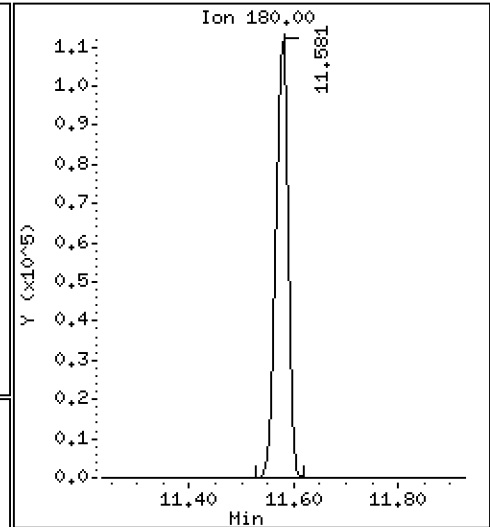
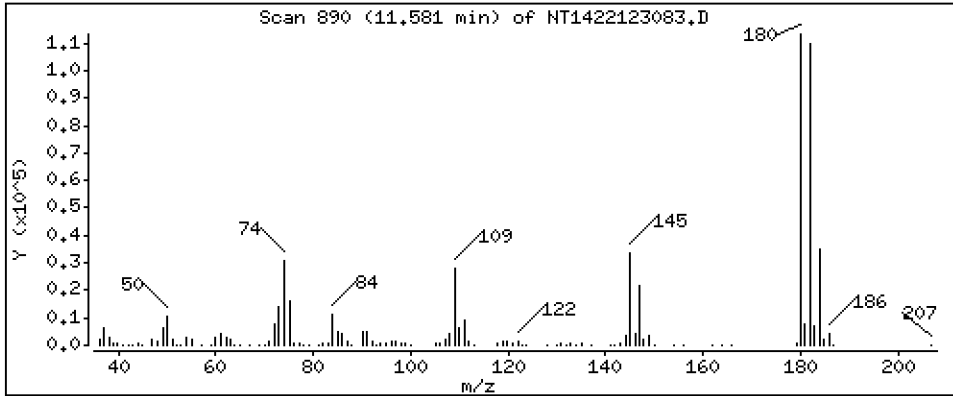
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 4,444 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

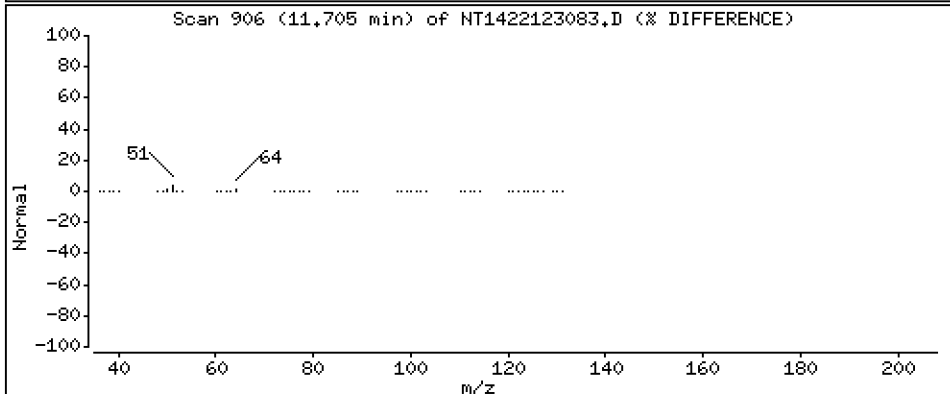
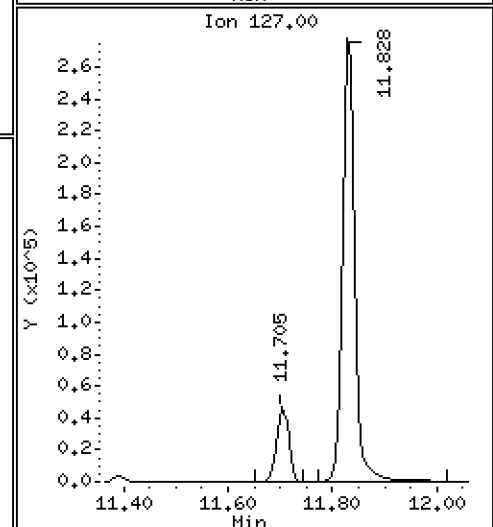
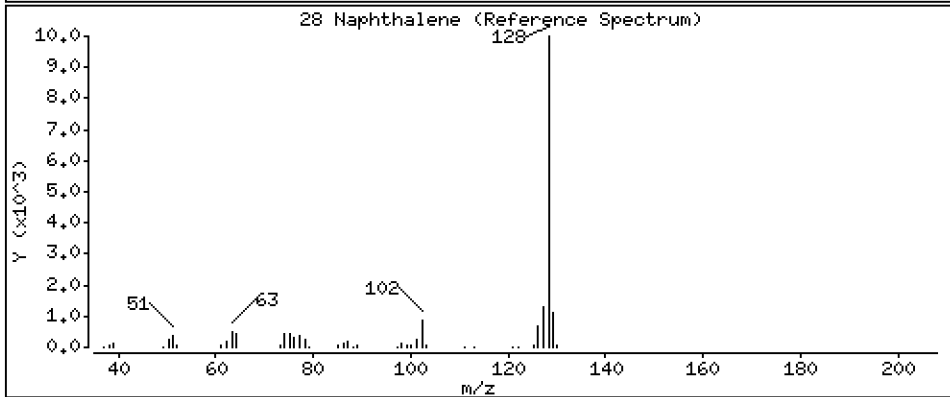
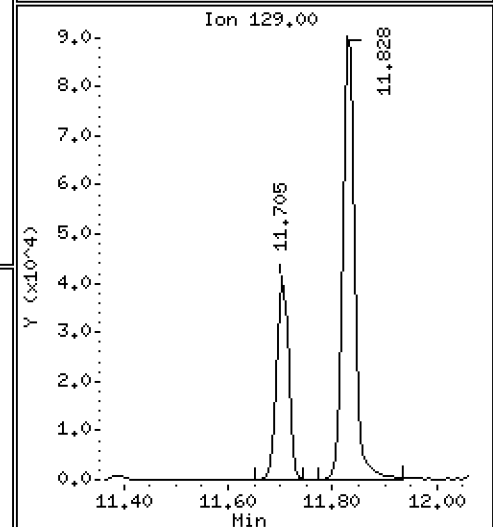
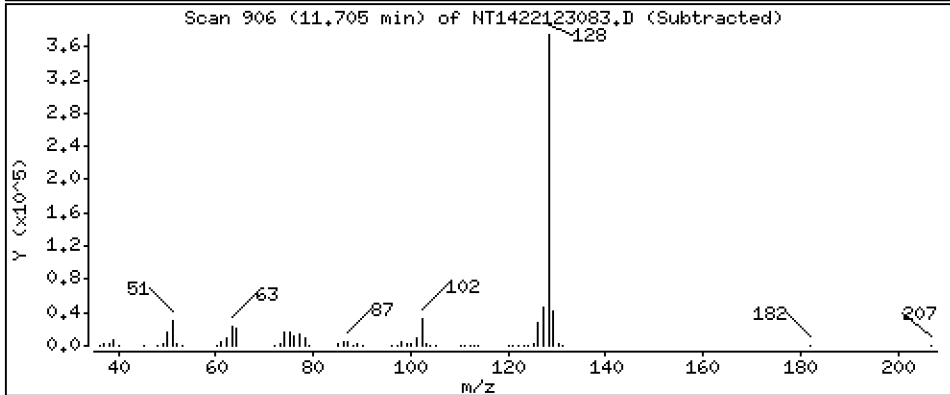
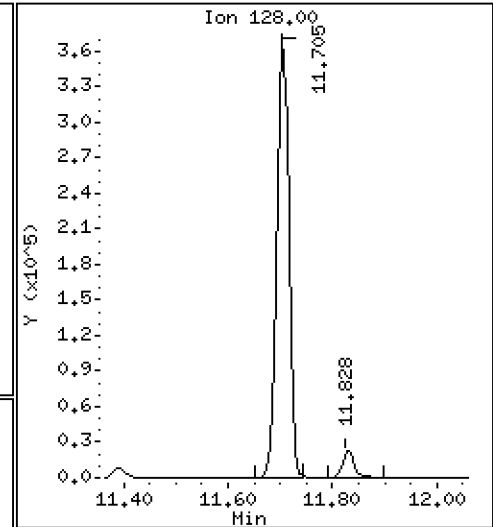
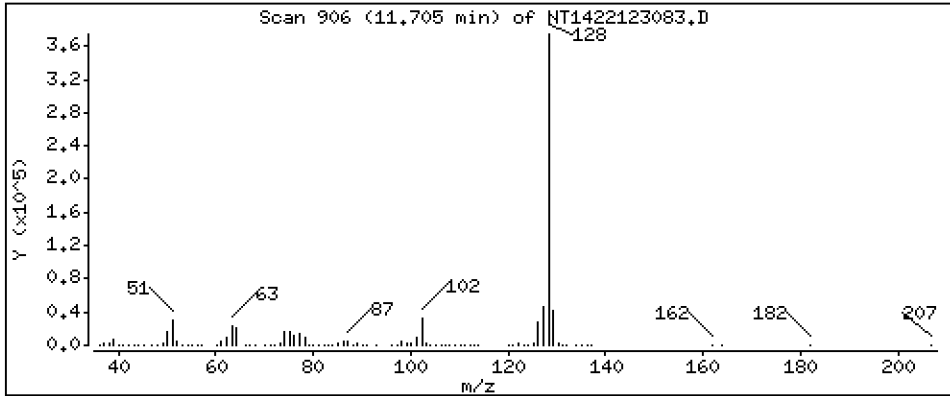
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 4,523 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

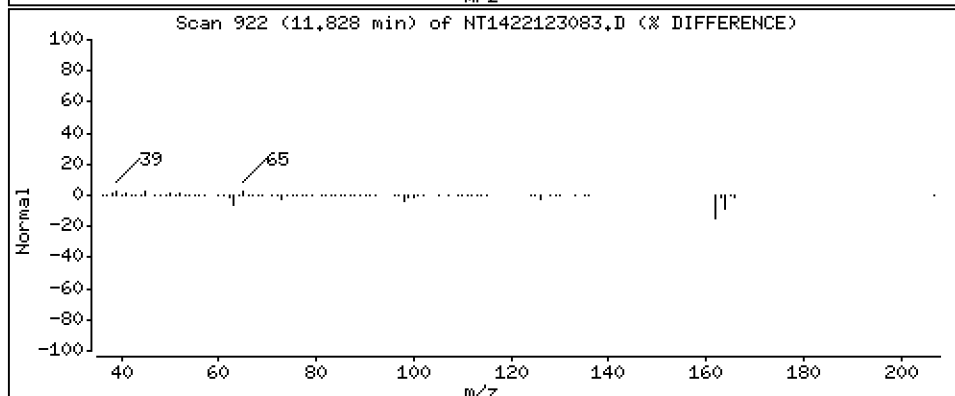
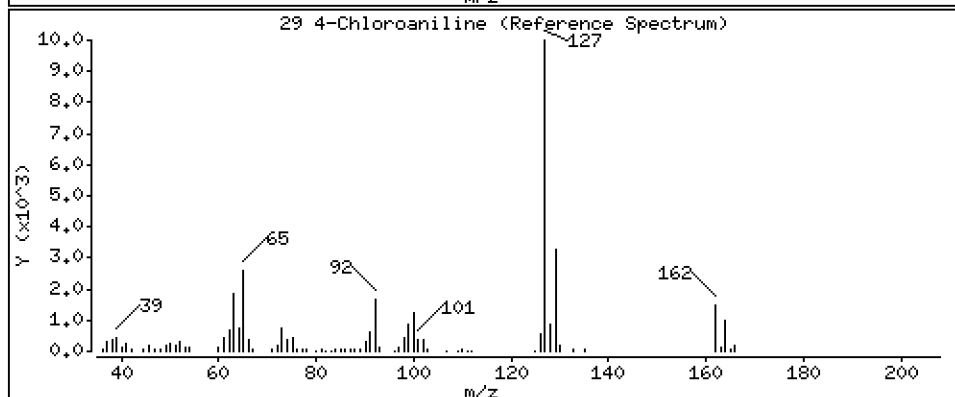
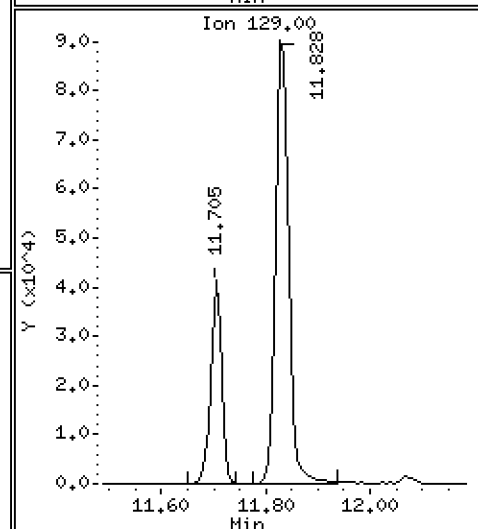
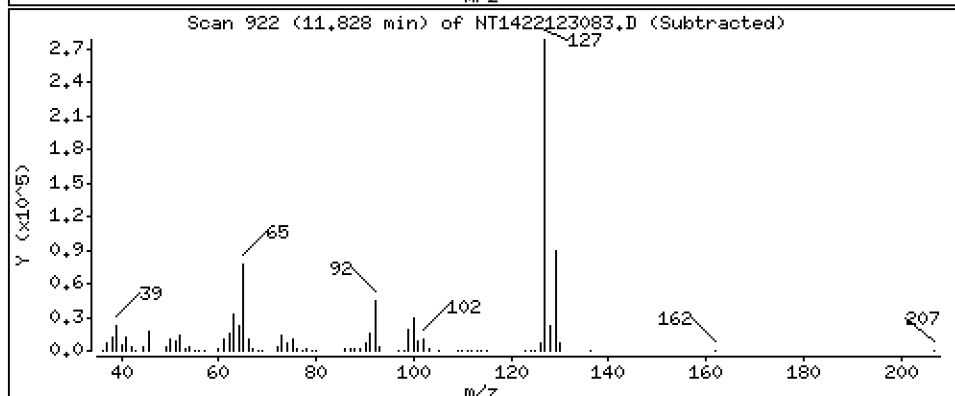
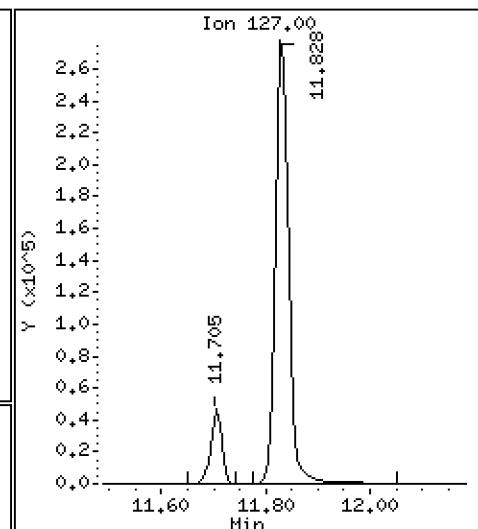
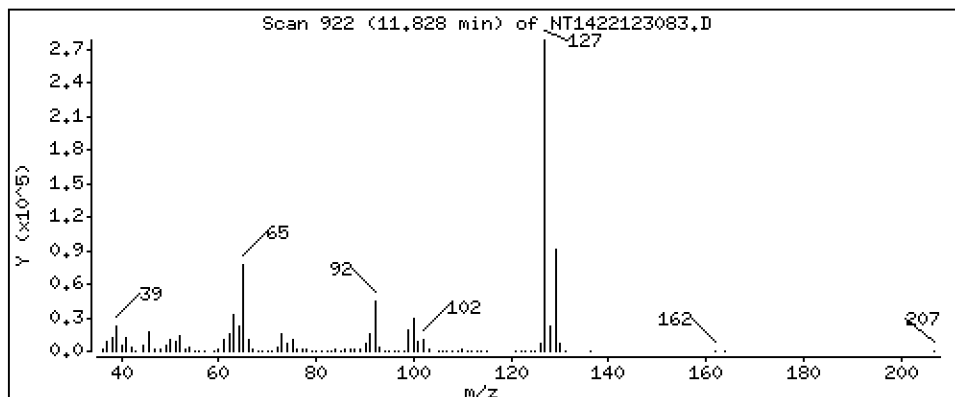
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 9,877 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

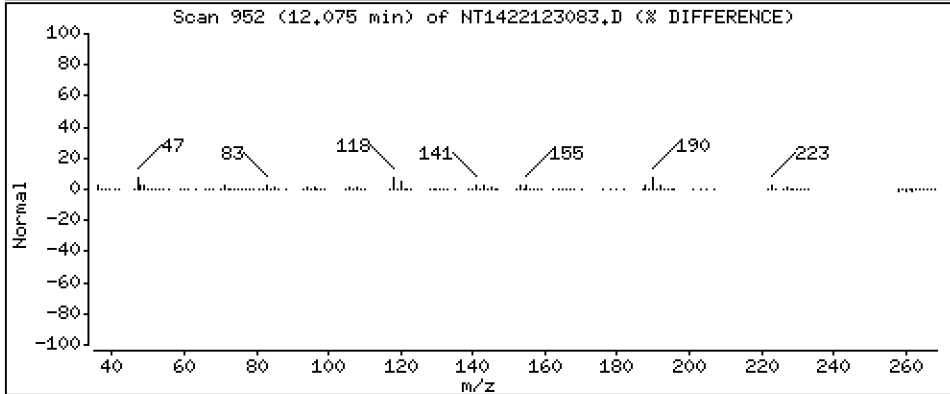
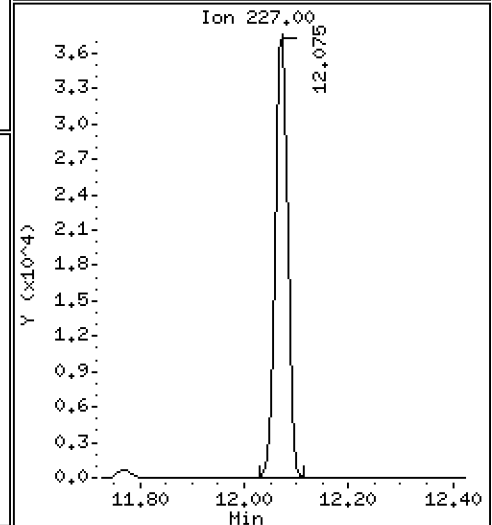
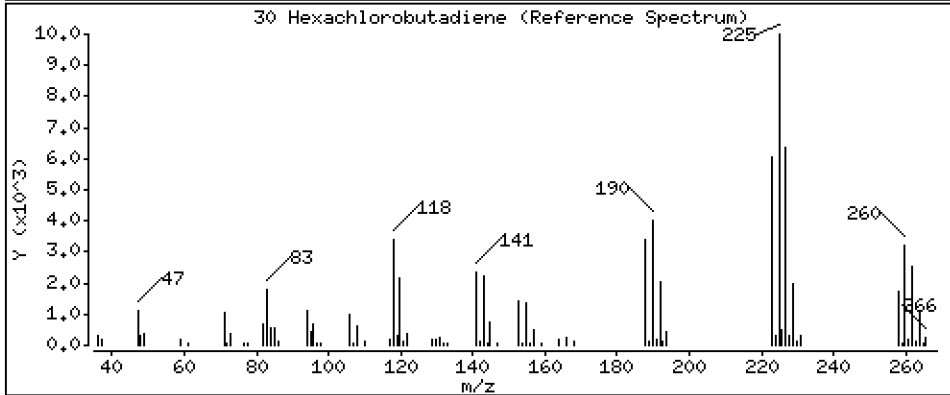
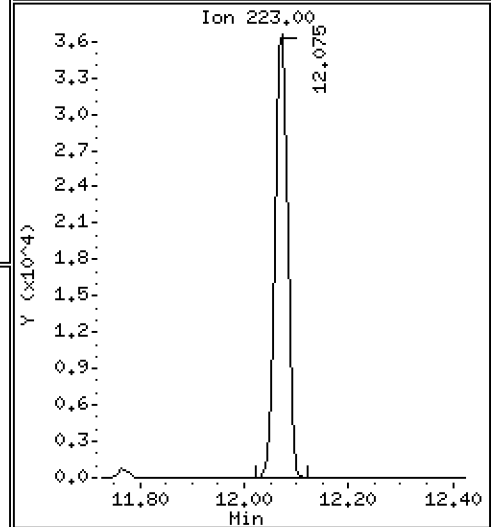
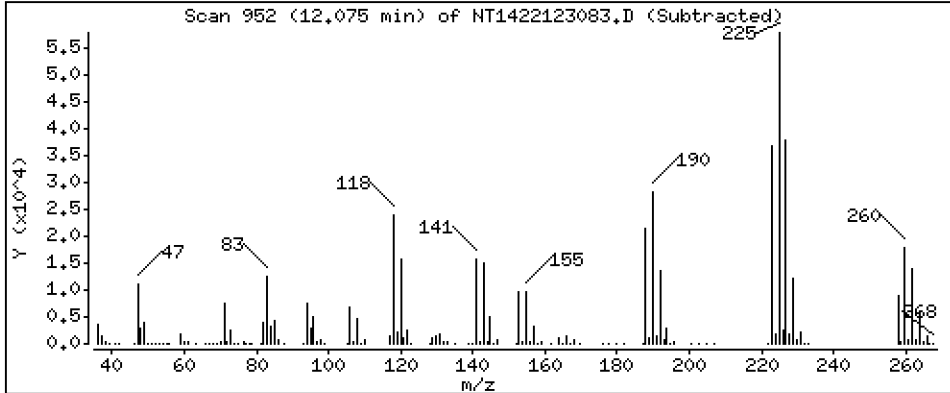
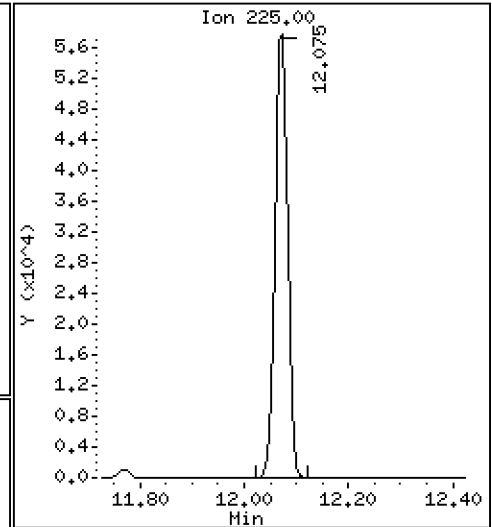
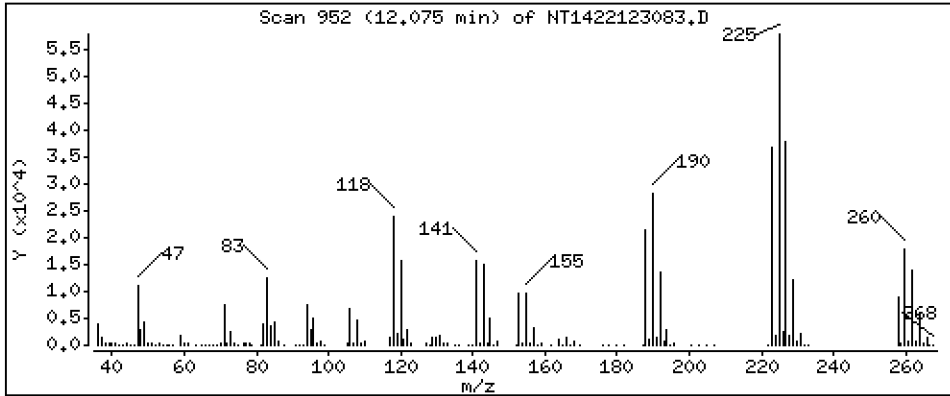
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 4,698 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

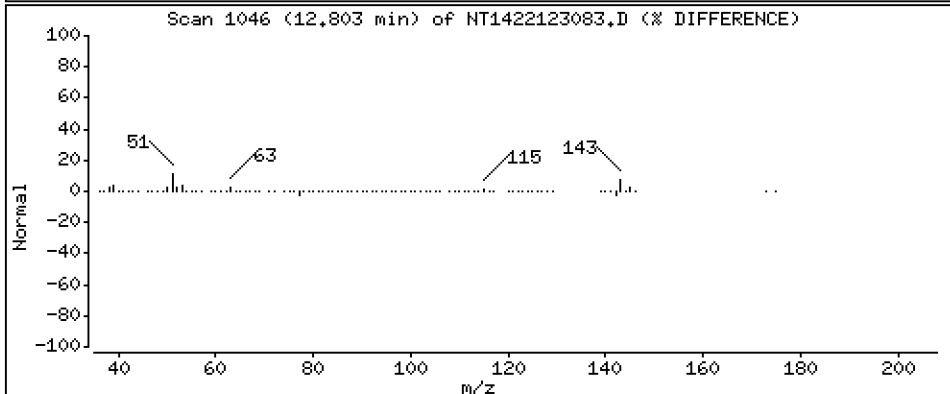
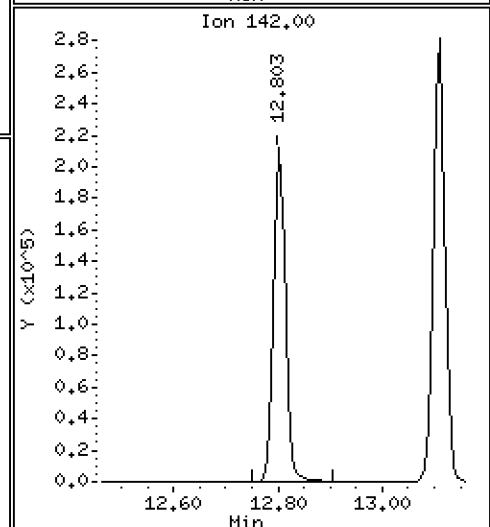
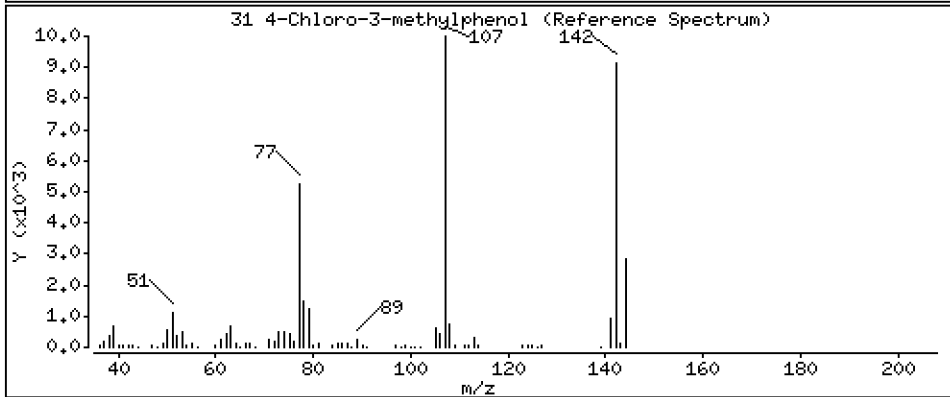
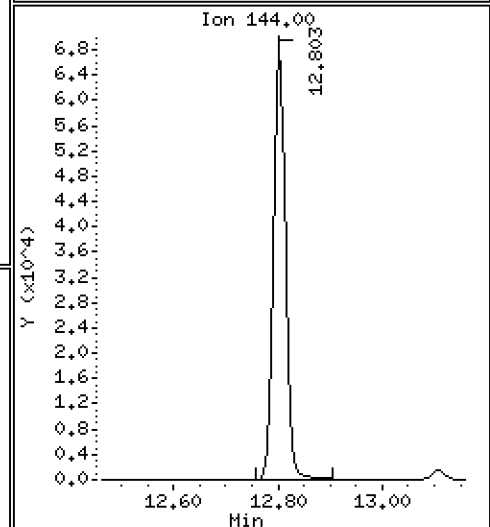
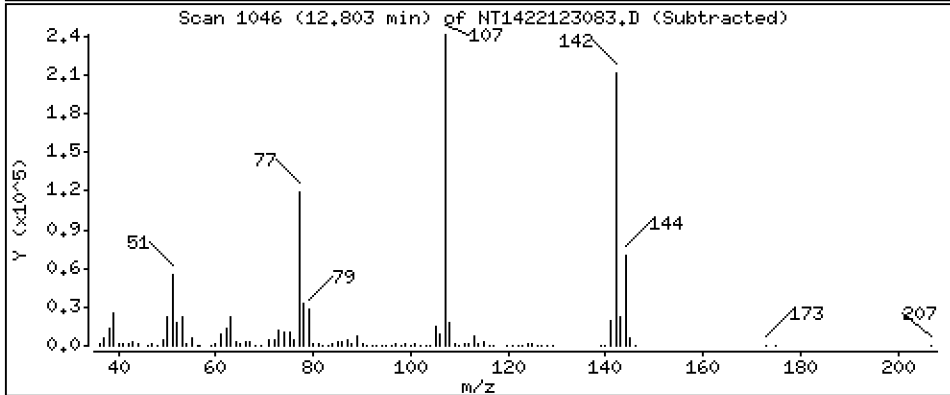
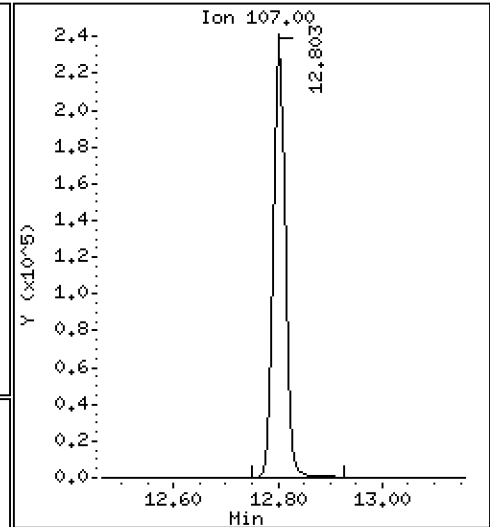
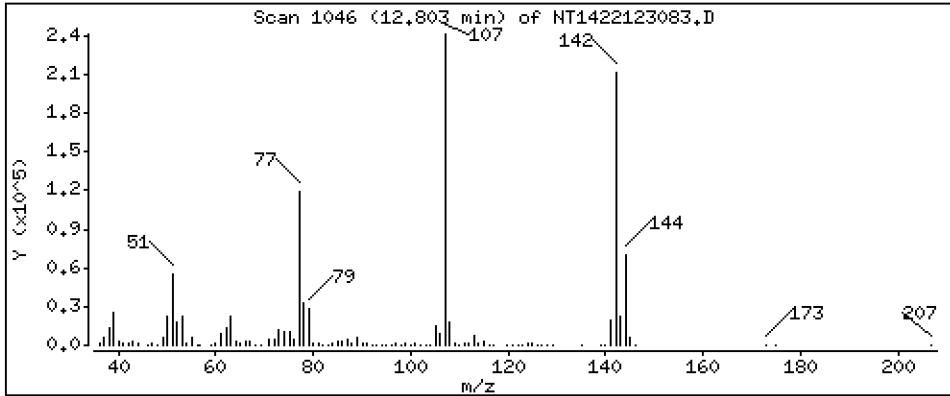
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 10,33 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

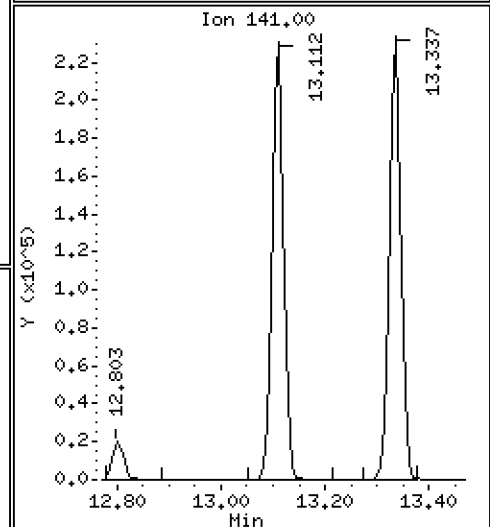
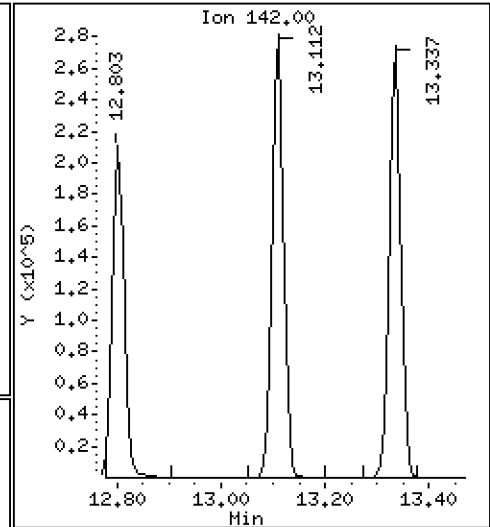
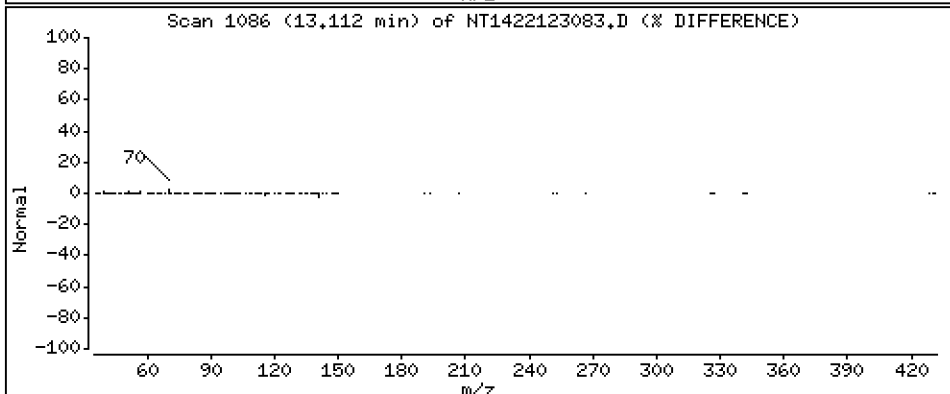
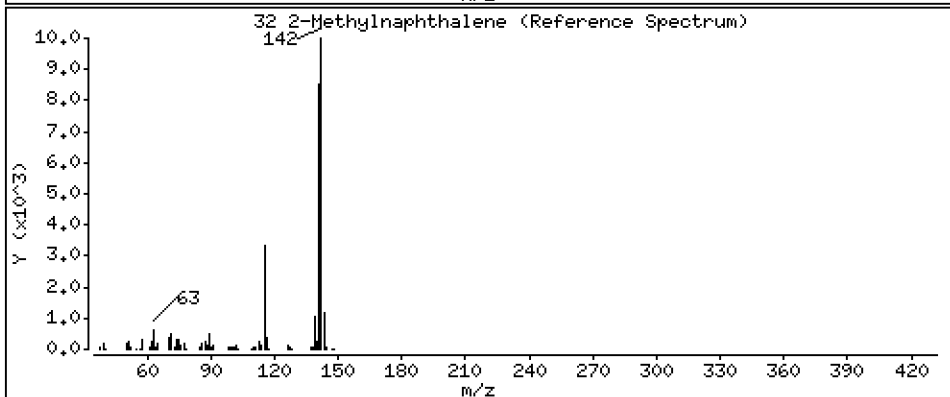
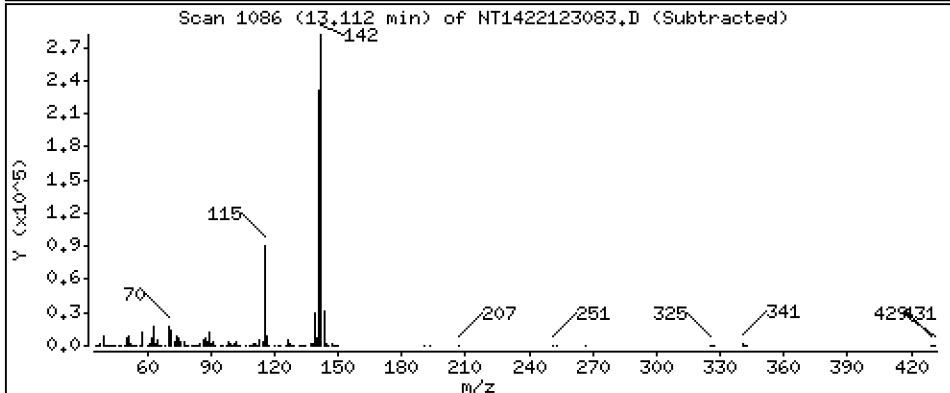
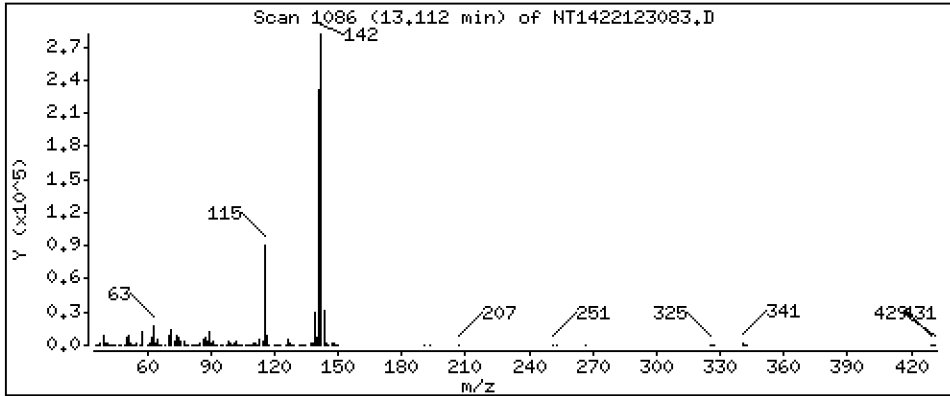
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 4,777 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

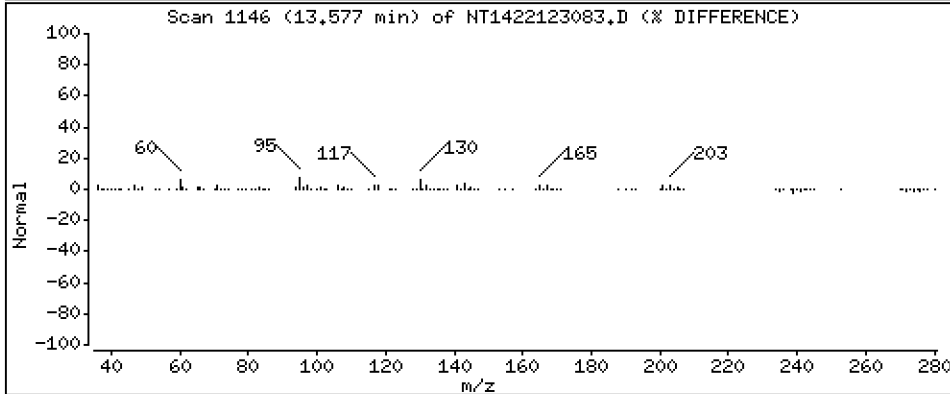
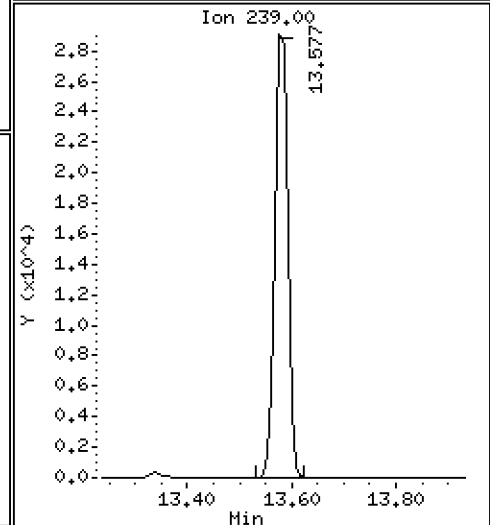
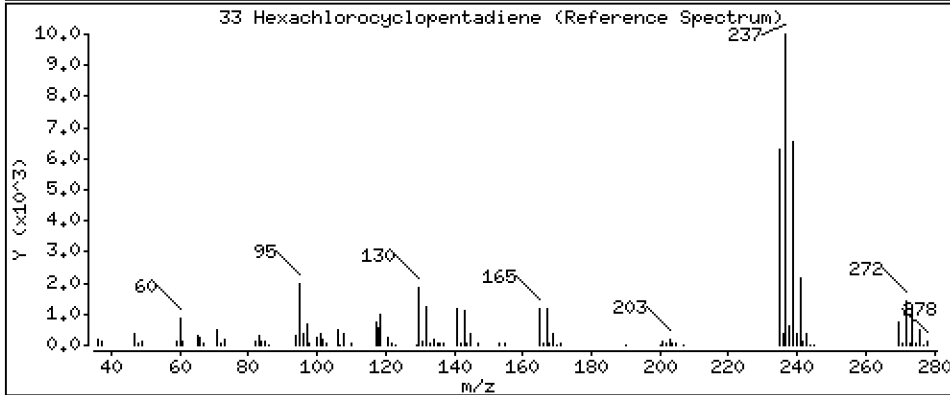
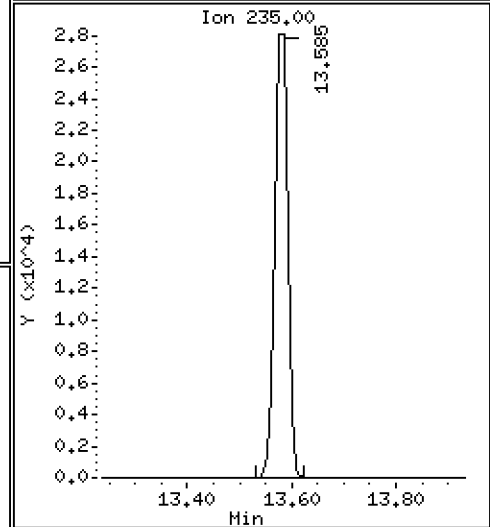
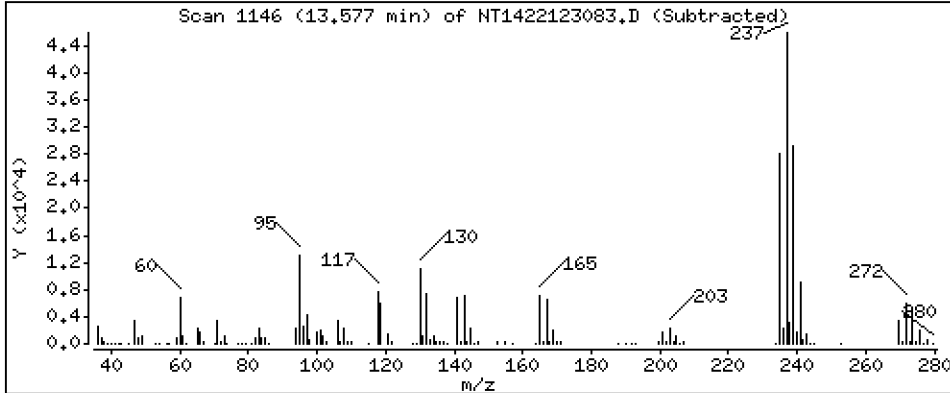
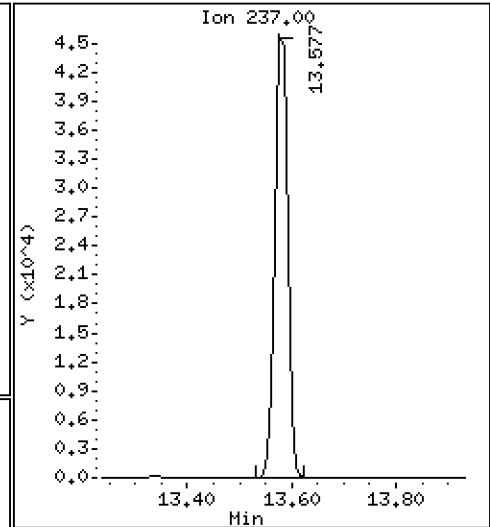
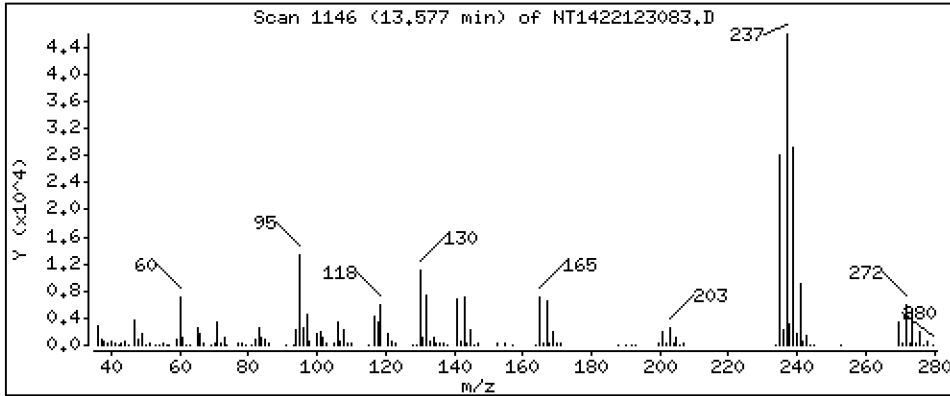
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 3,594 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

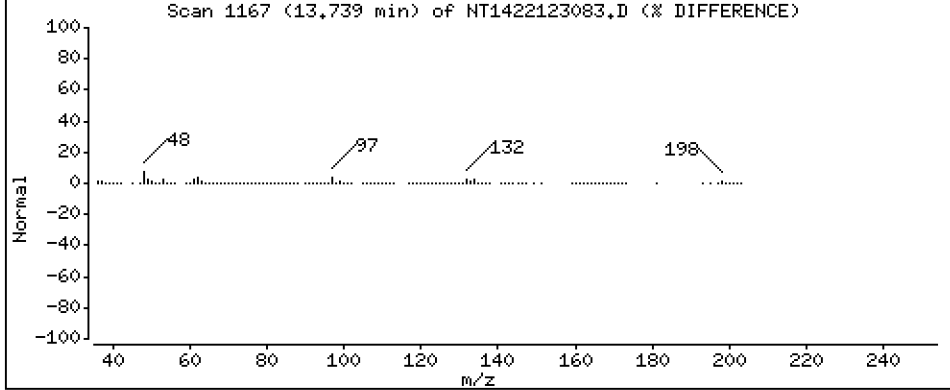
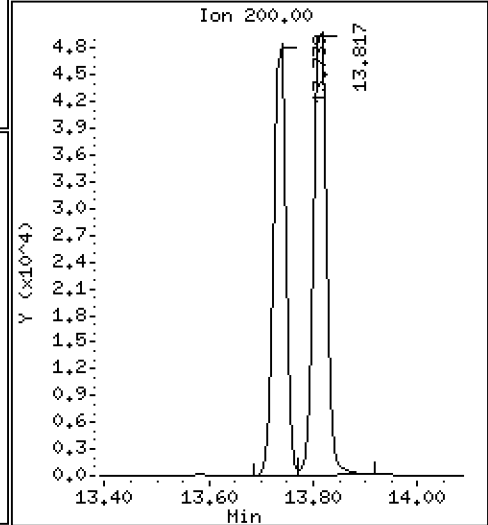
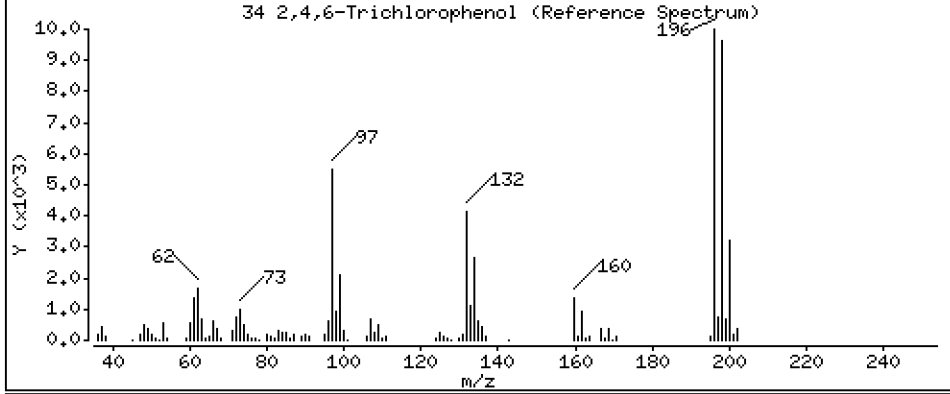
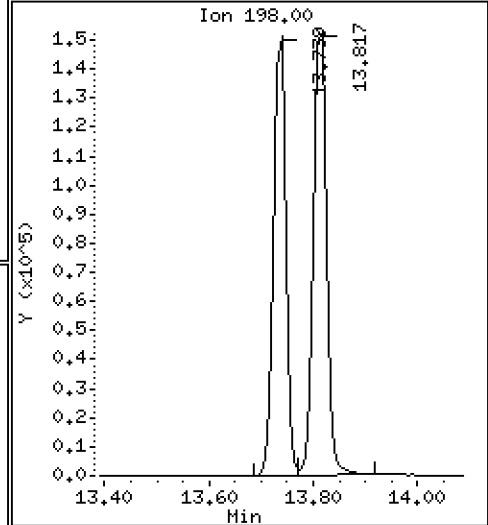
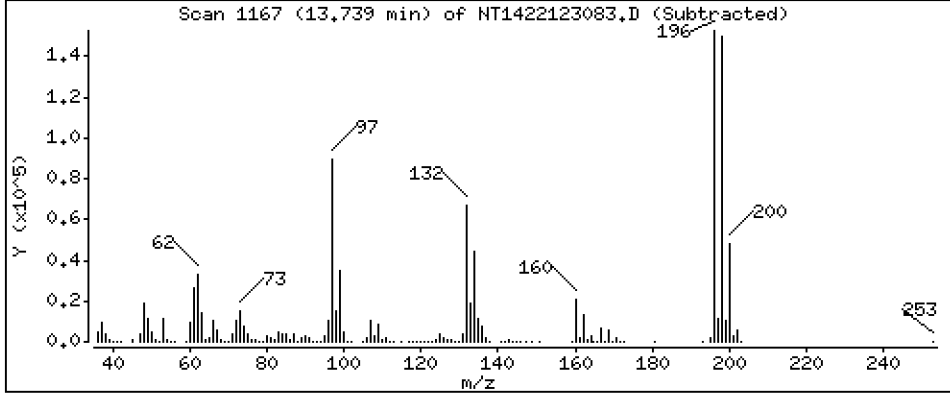
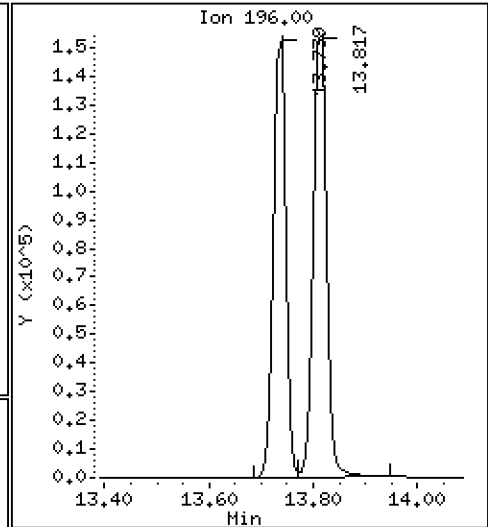
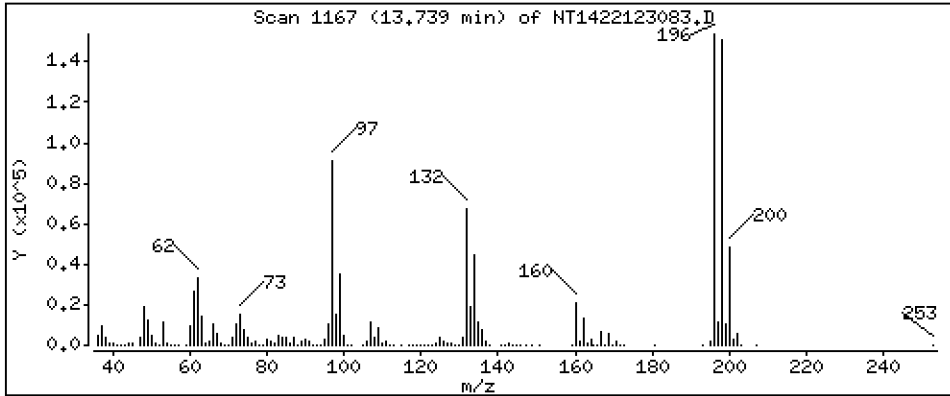
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 10,37 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

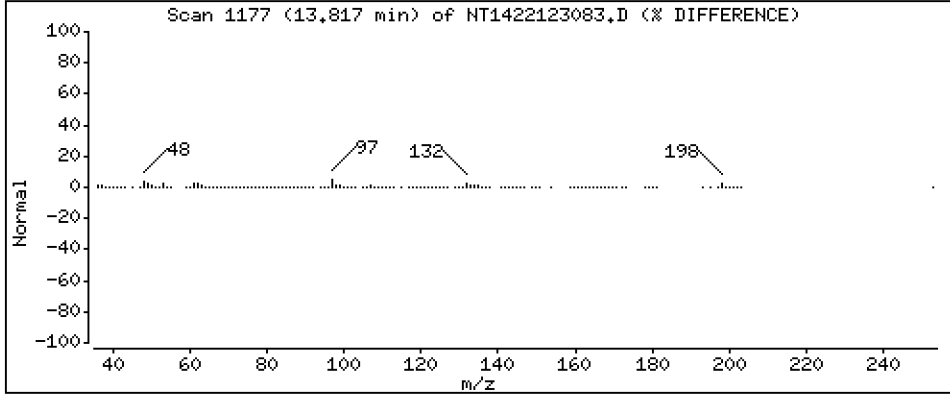
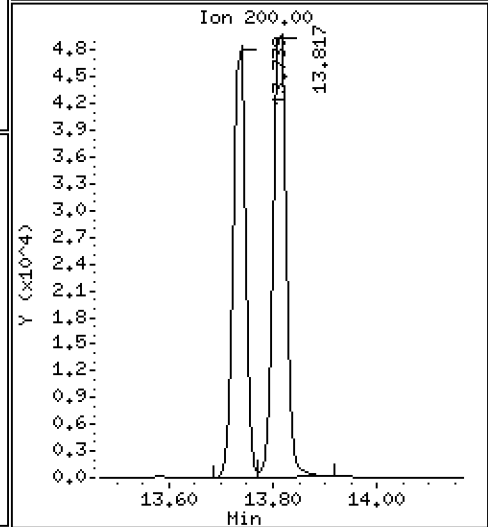
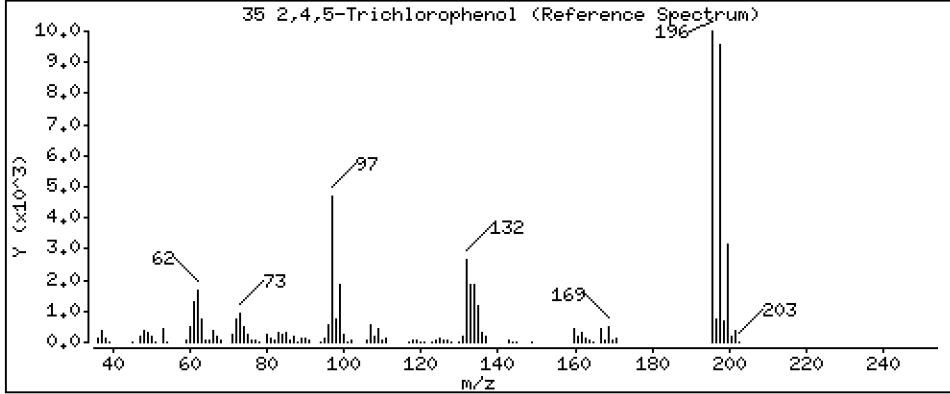
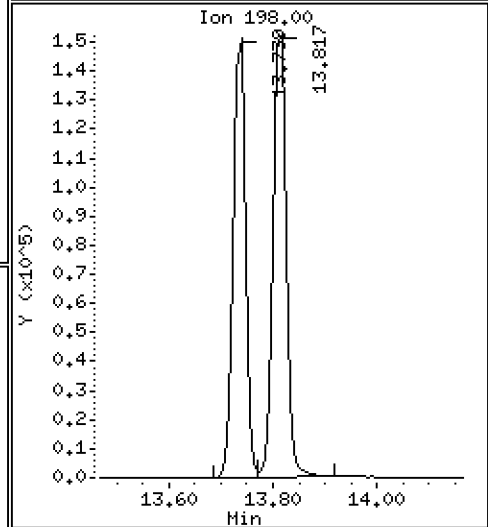
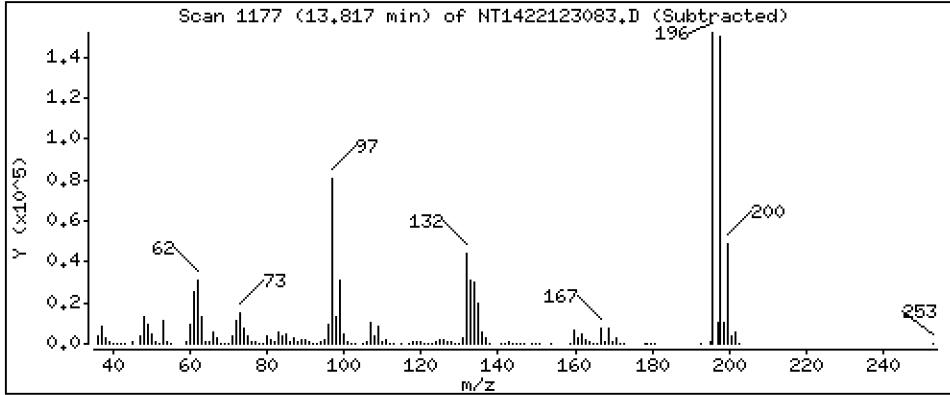
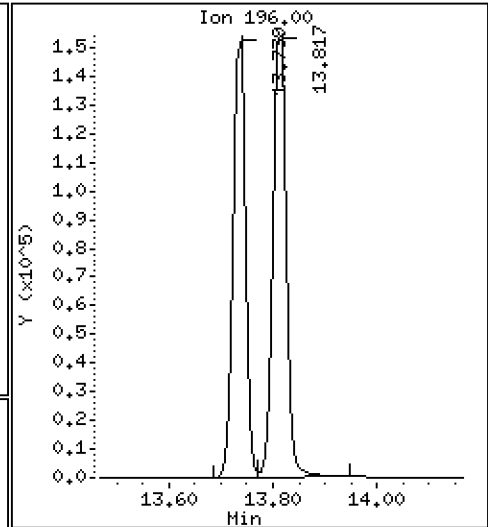
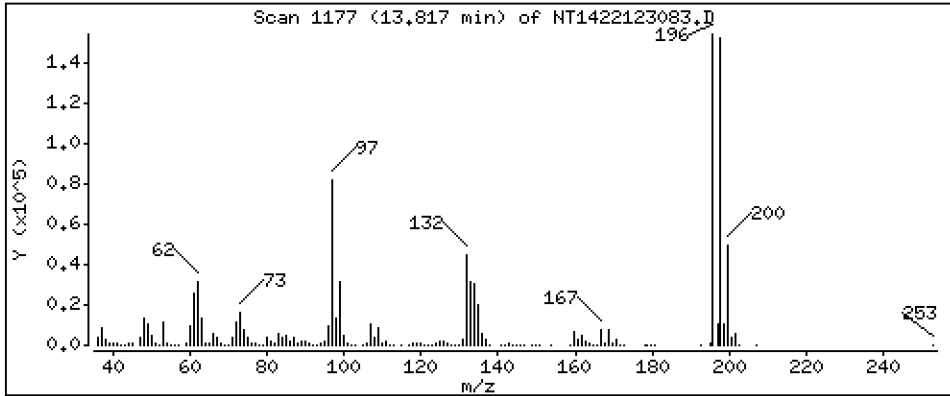
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 9,924 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

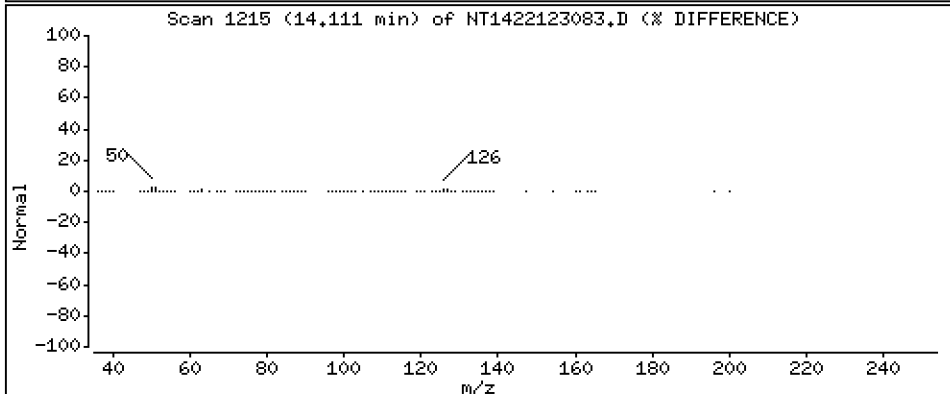
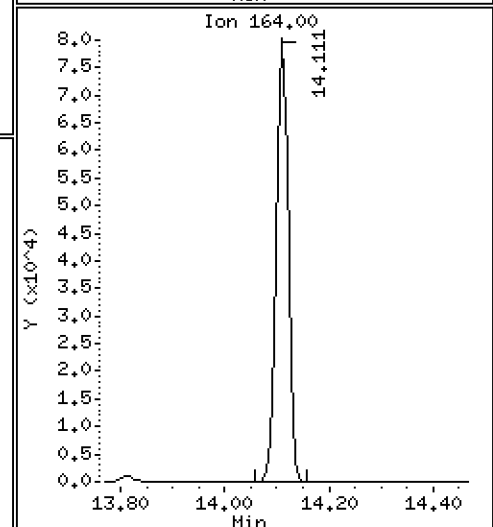
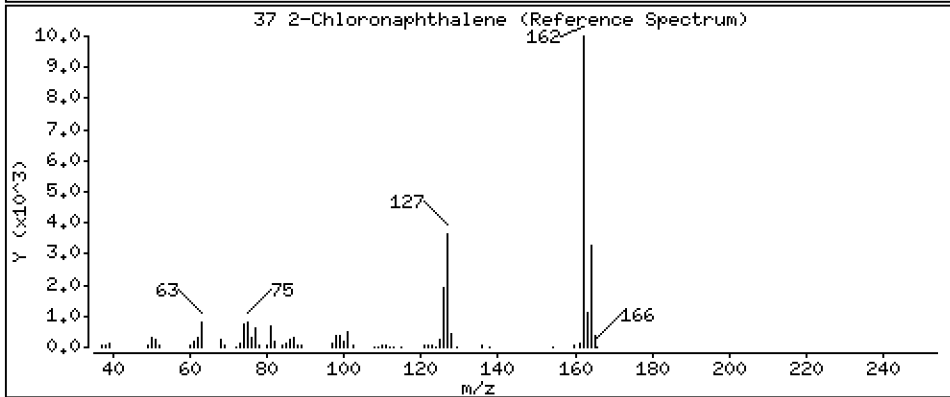
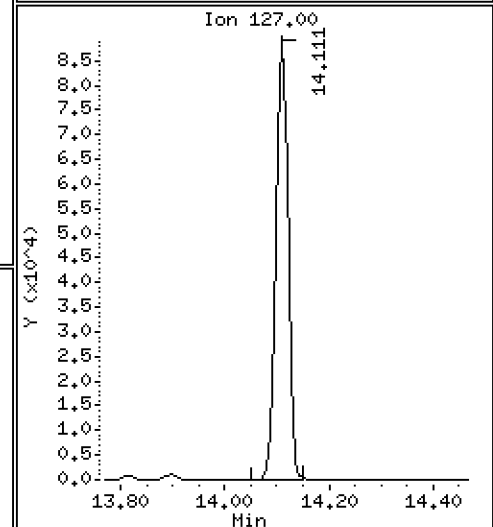
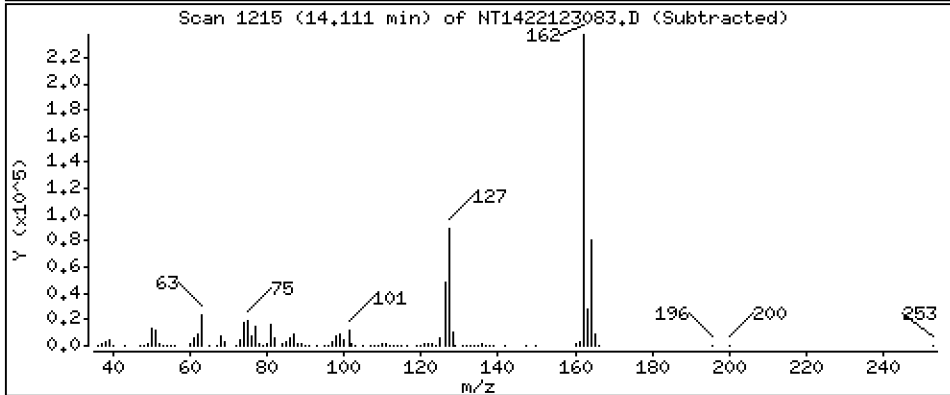
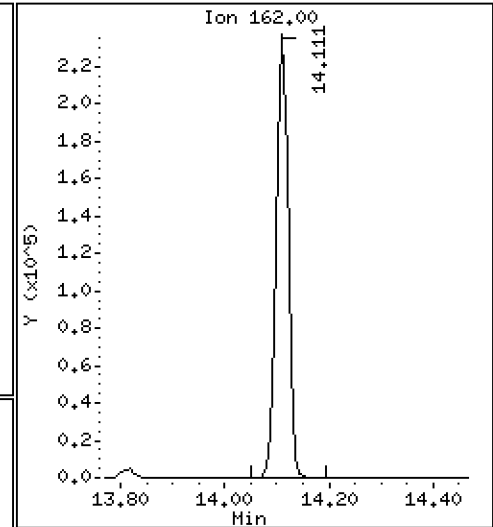
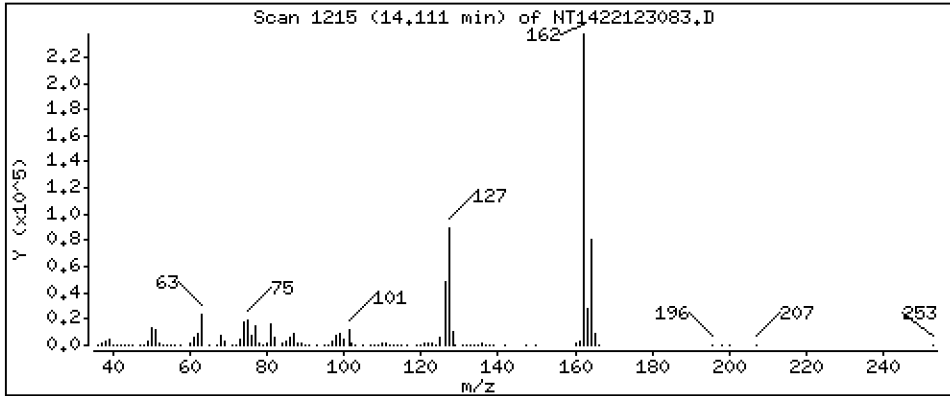
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 4,581 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

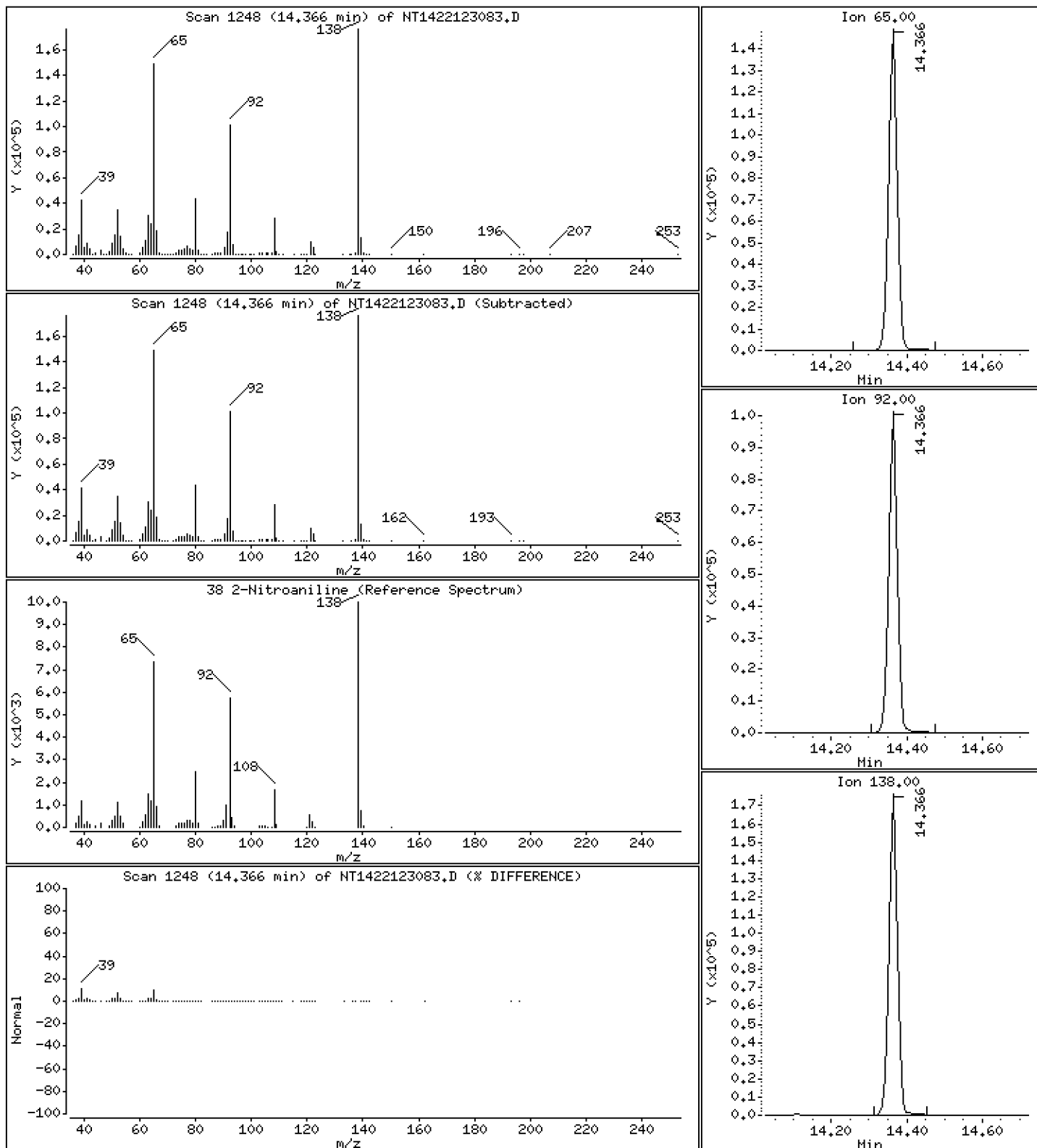
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 11,27 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

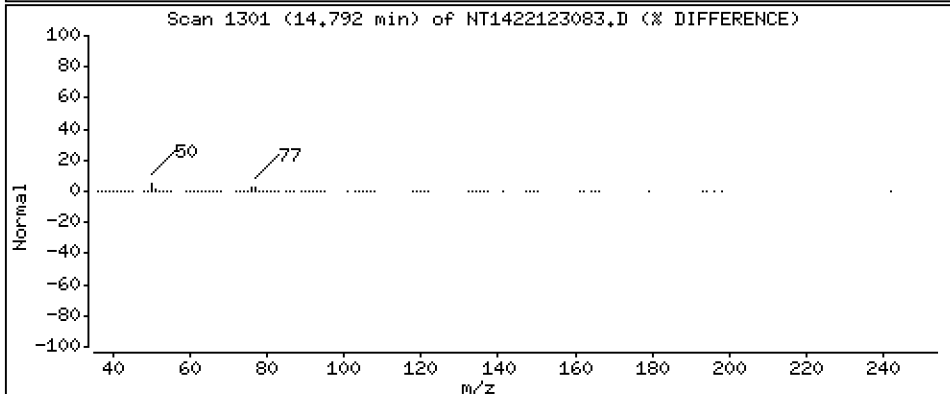
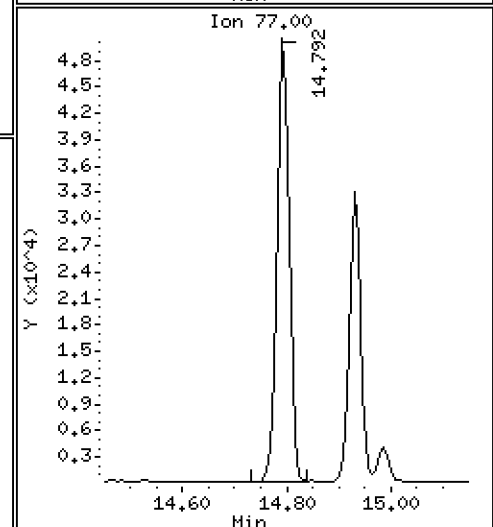
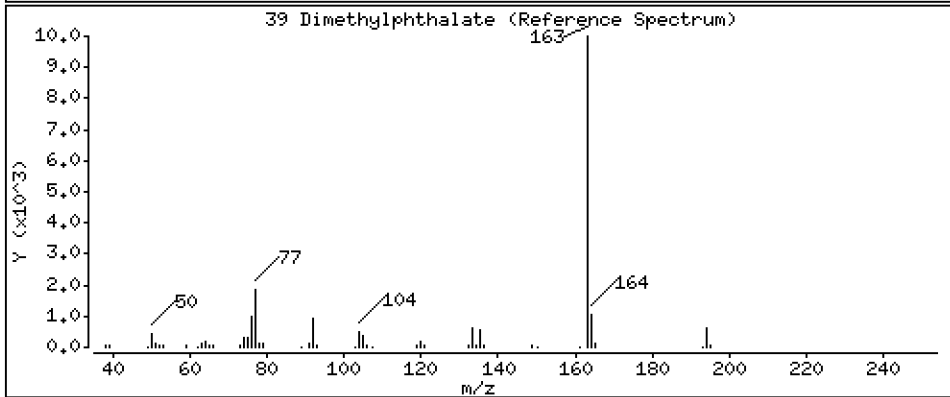
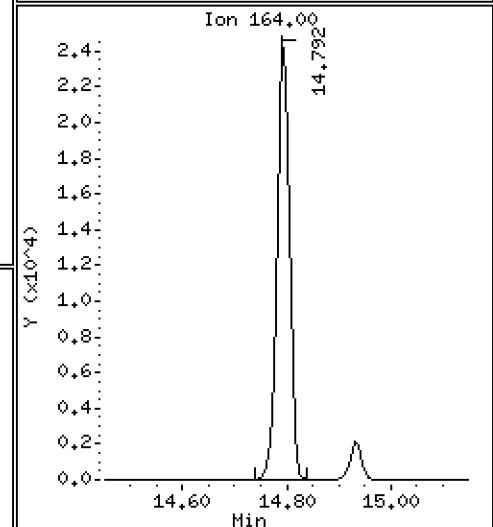
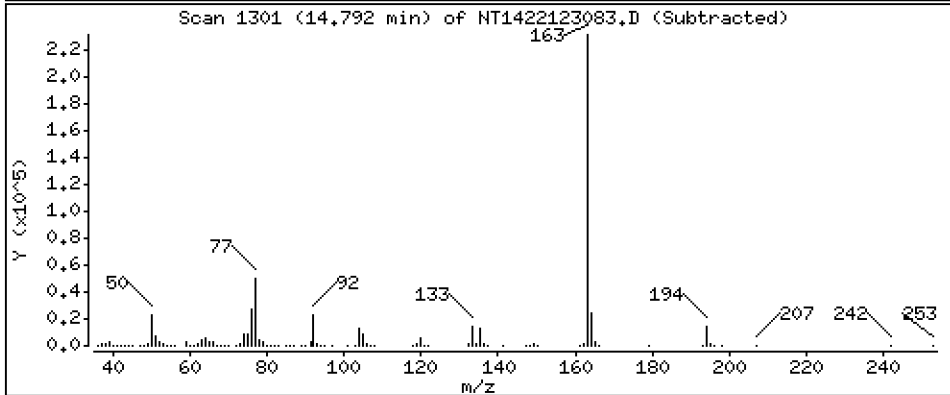
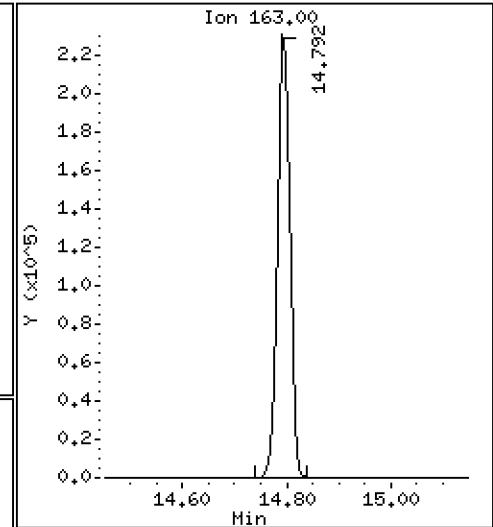
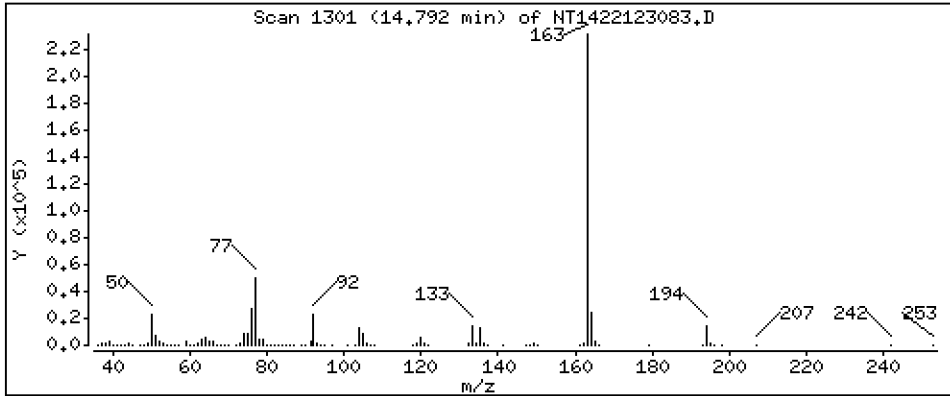
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 4,791 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

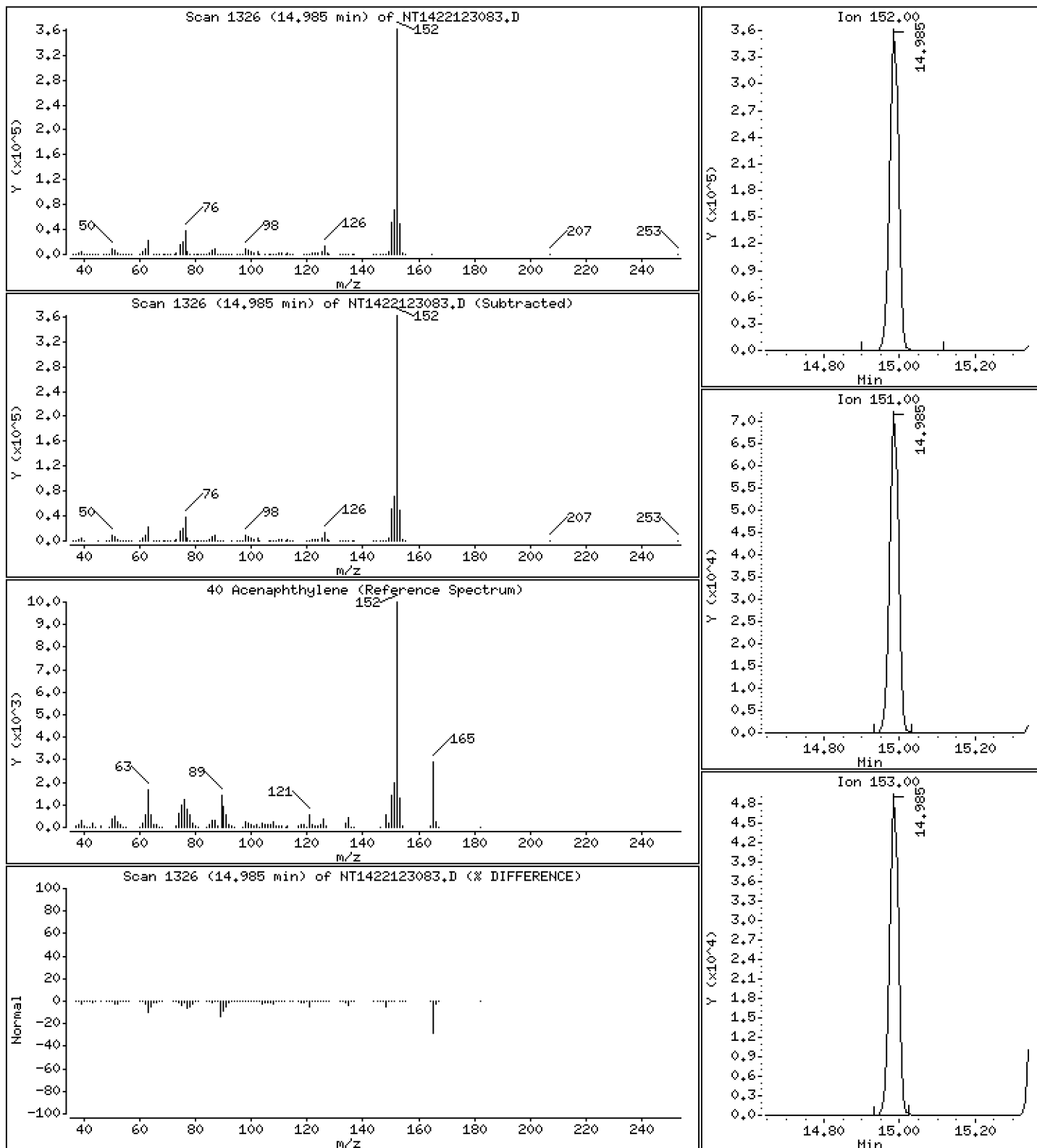
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 5,043 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

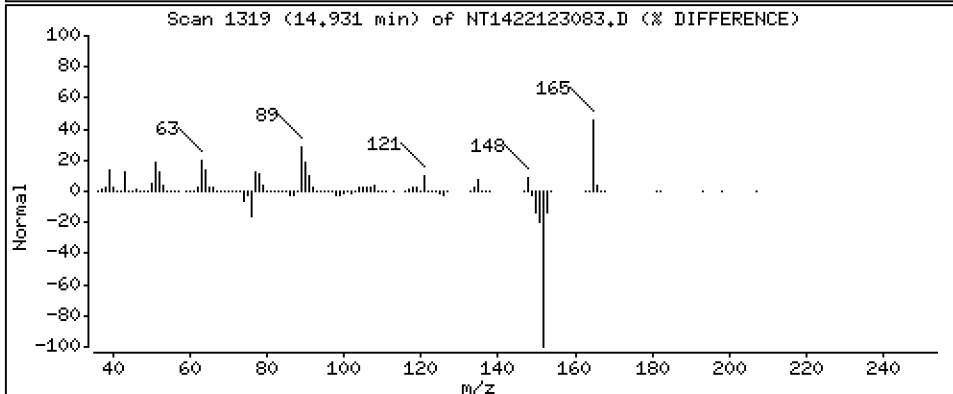
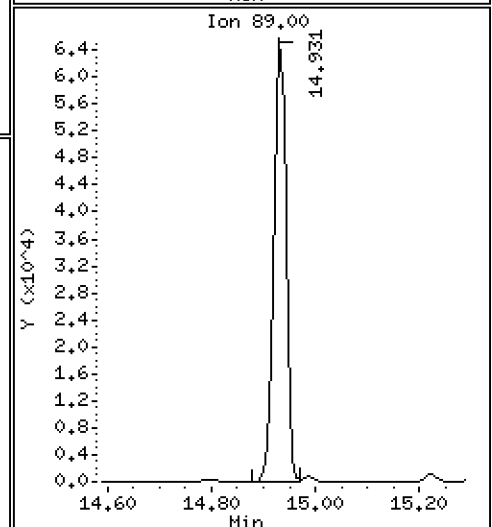
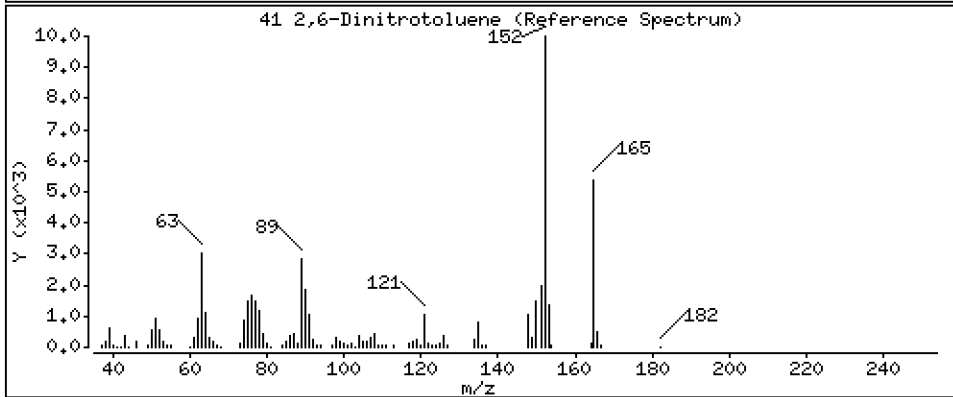
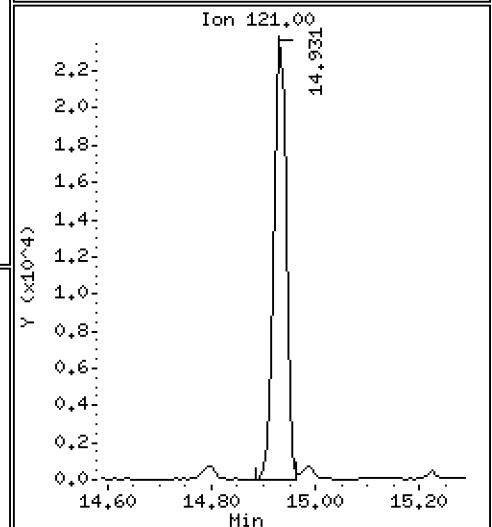
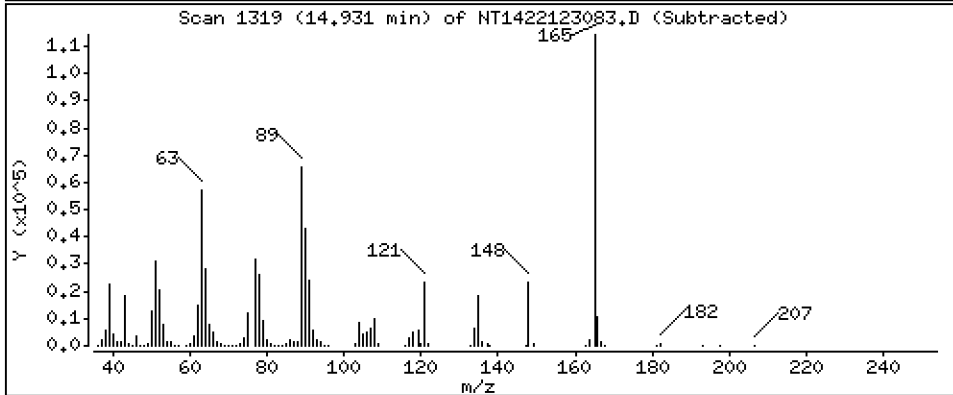
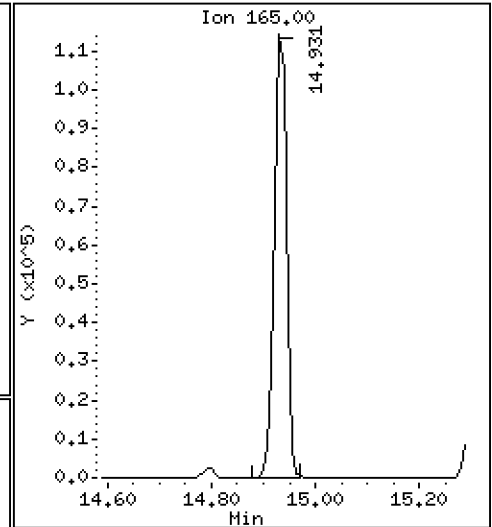
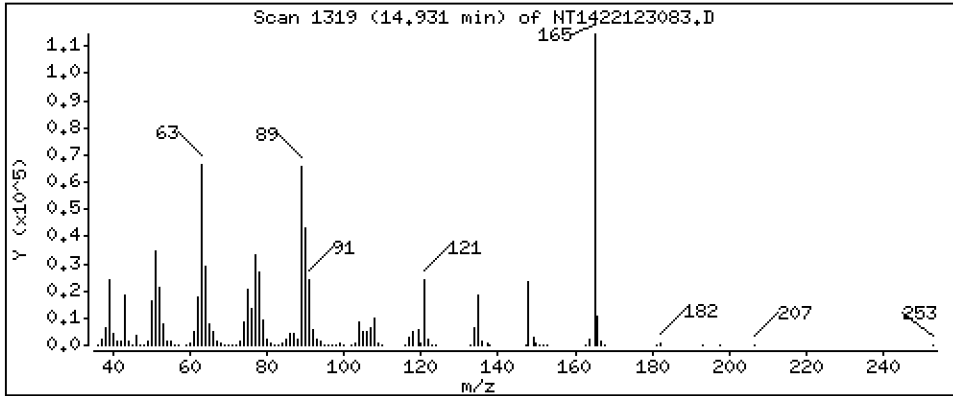
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 10,14 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

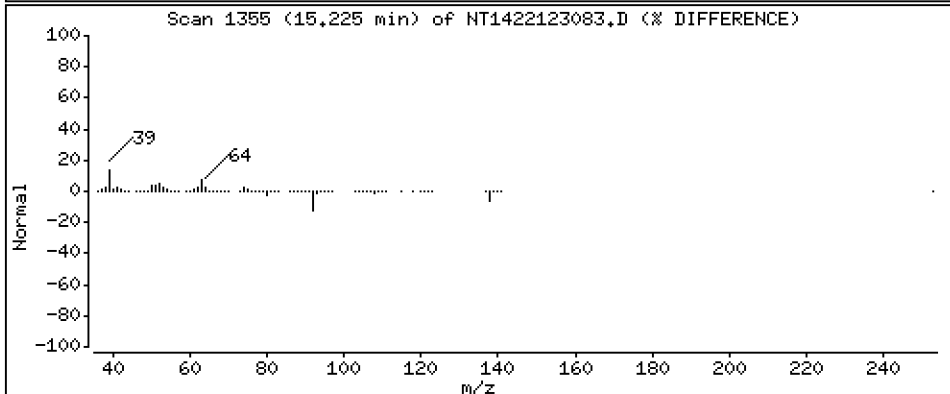
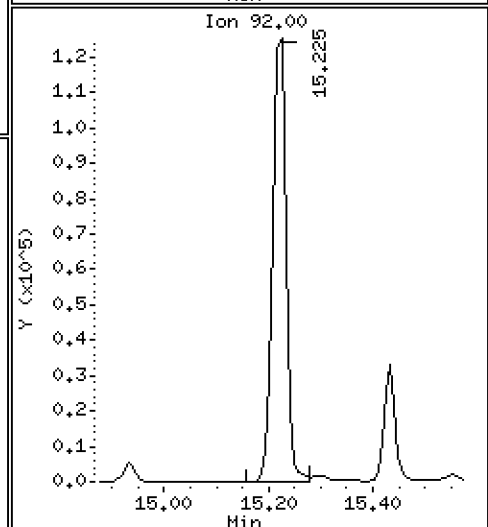
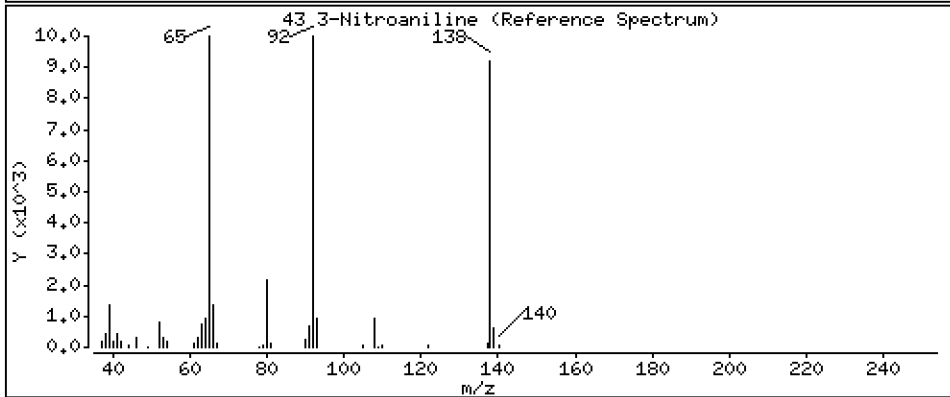
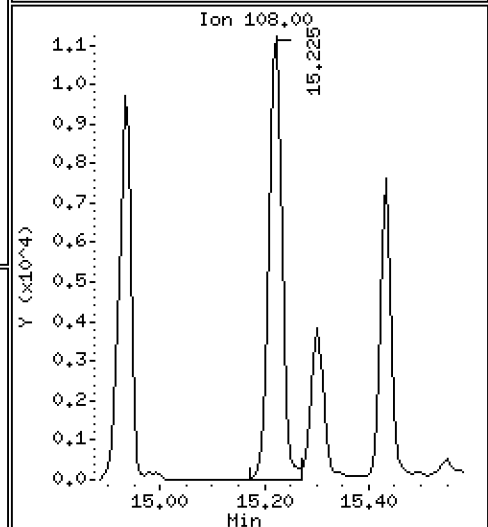
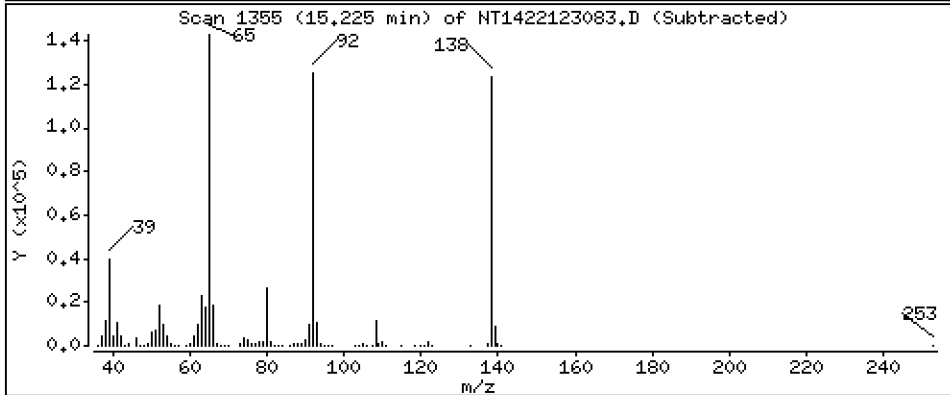
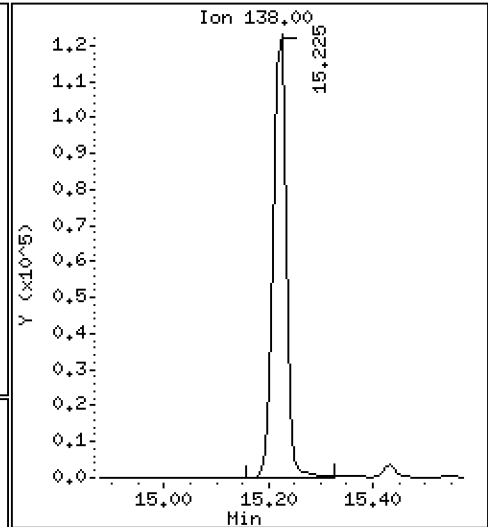
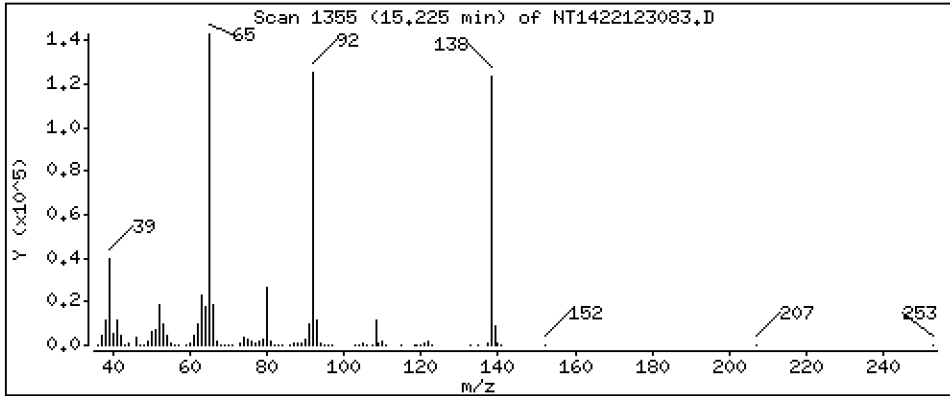
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 9,682 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

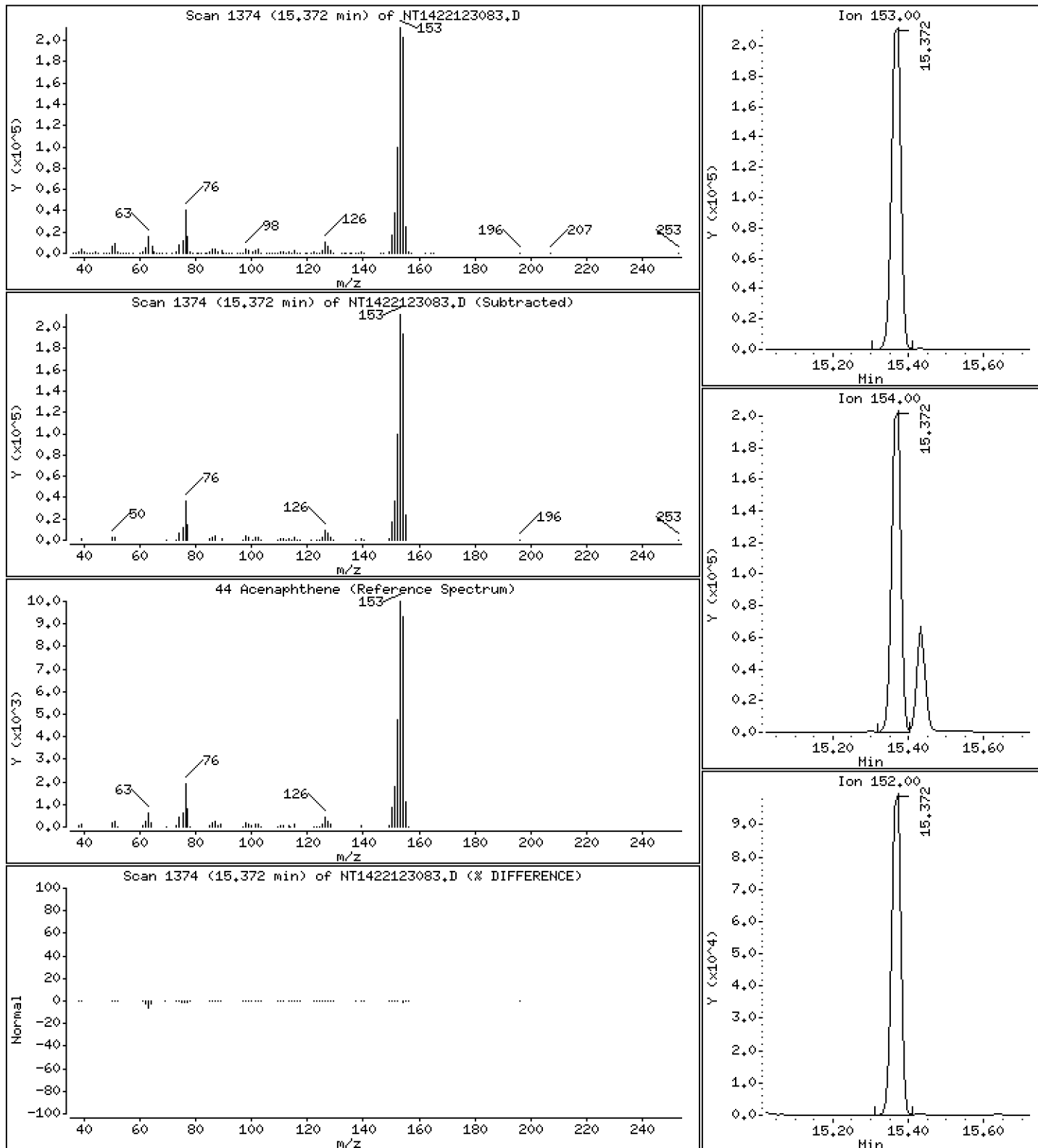
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 4,621 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

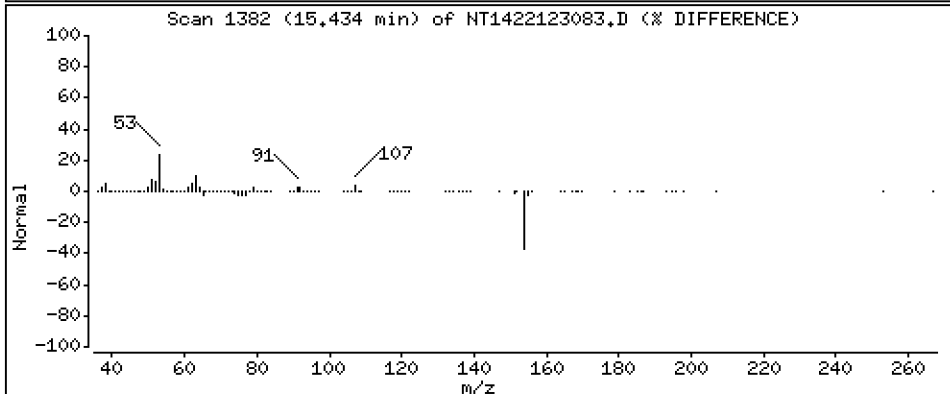
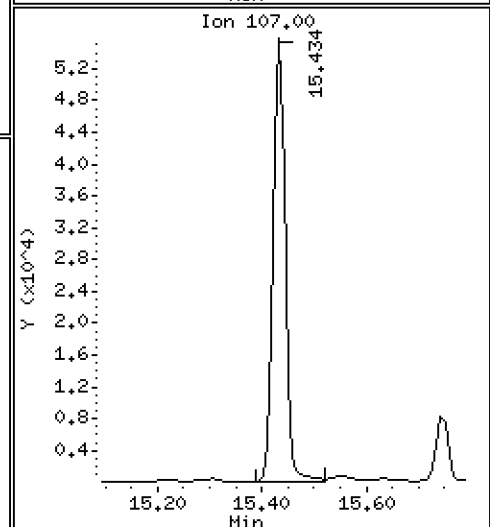
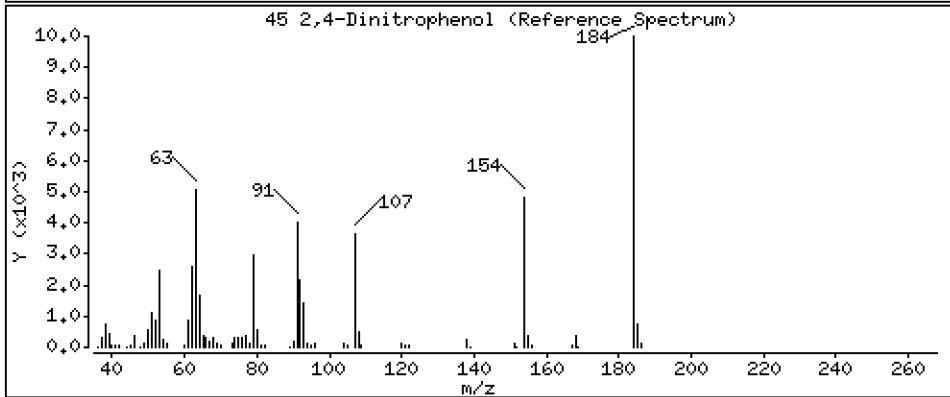
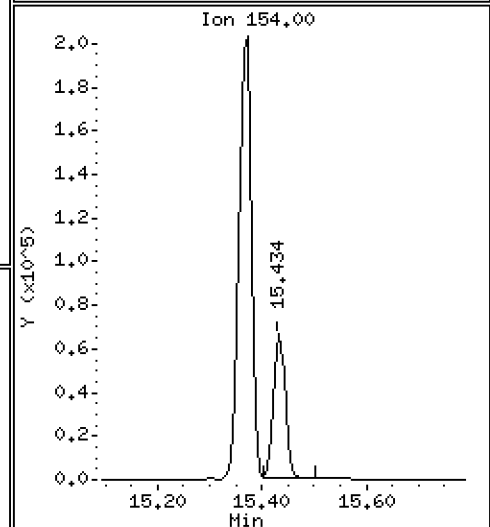
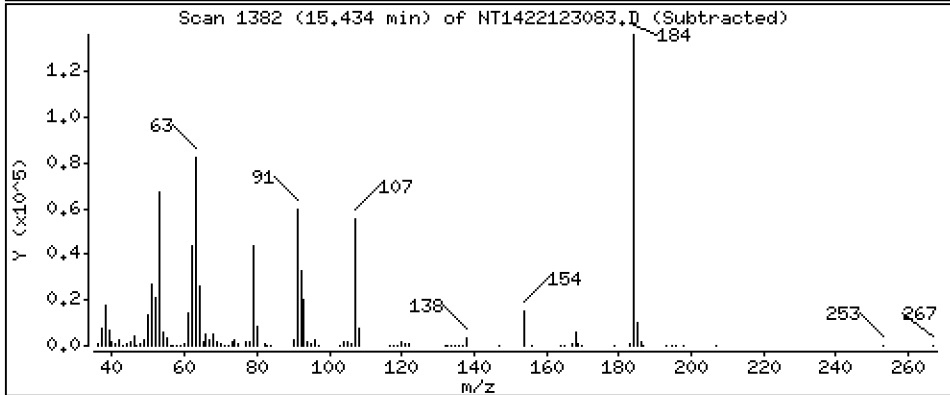
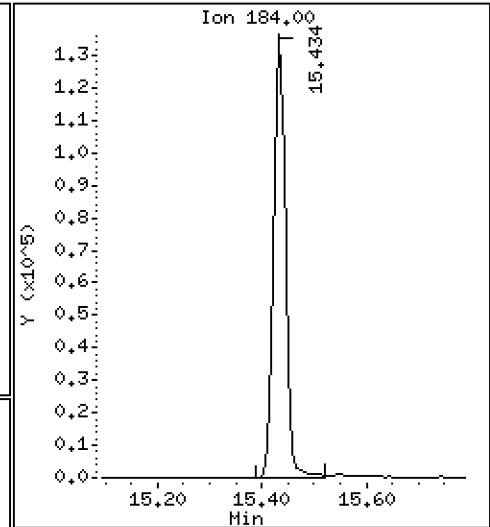
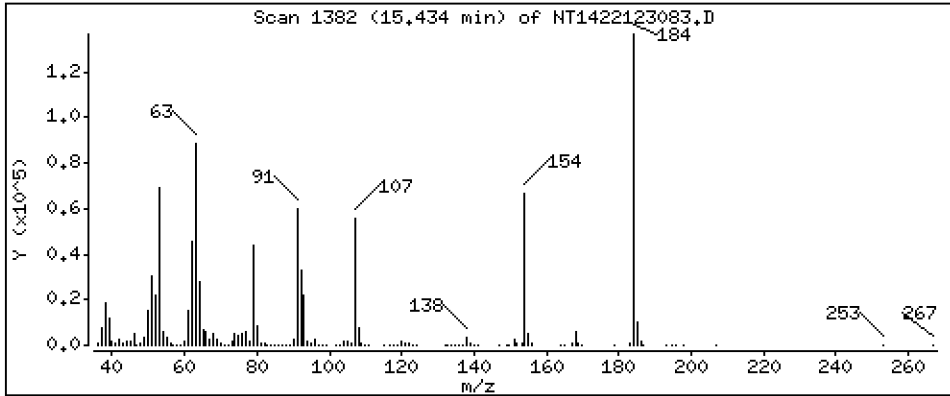
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 13,30 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

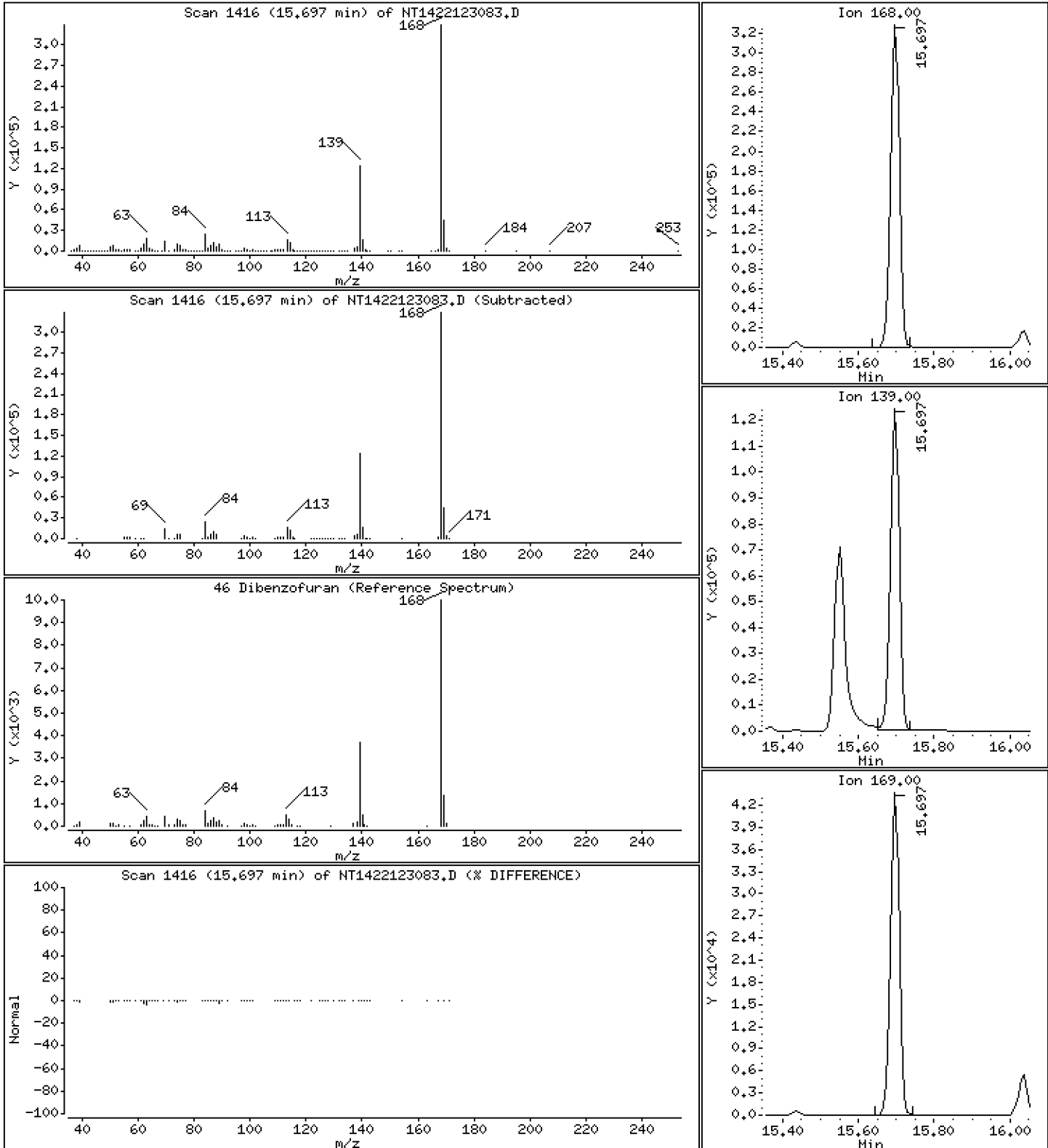
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 4,517 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

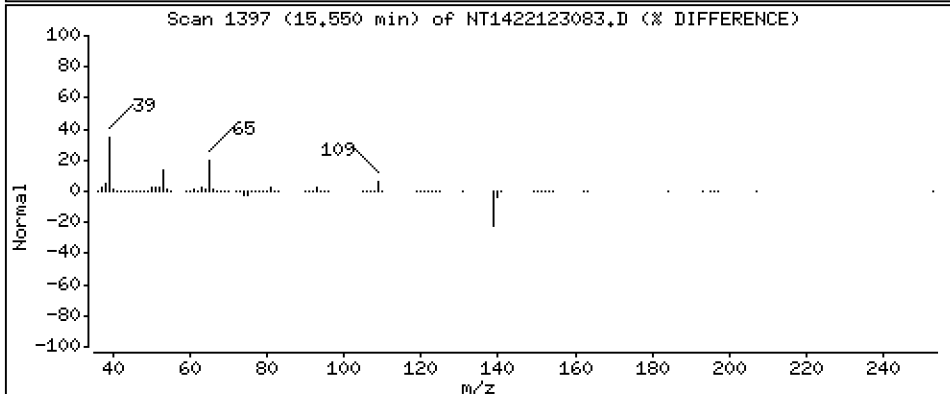
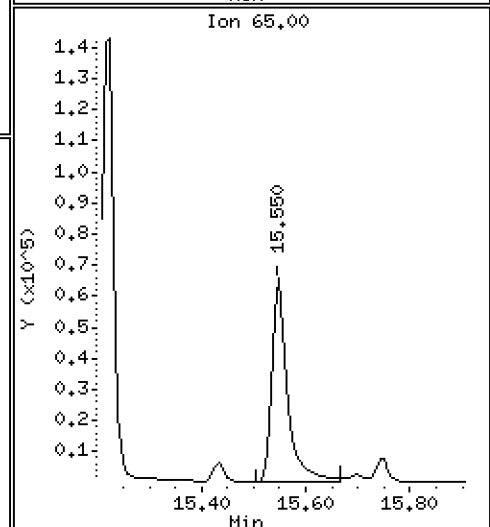
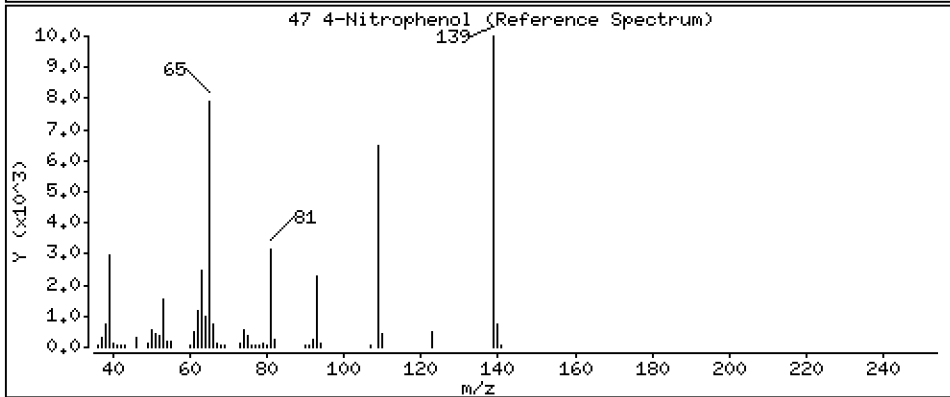
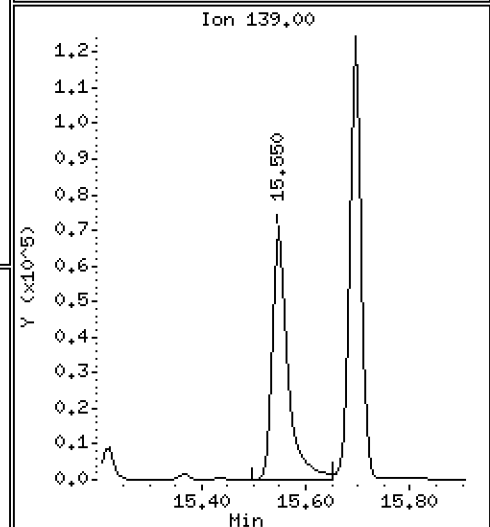
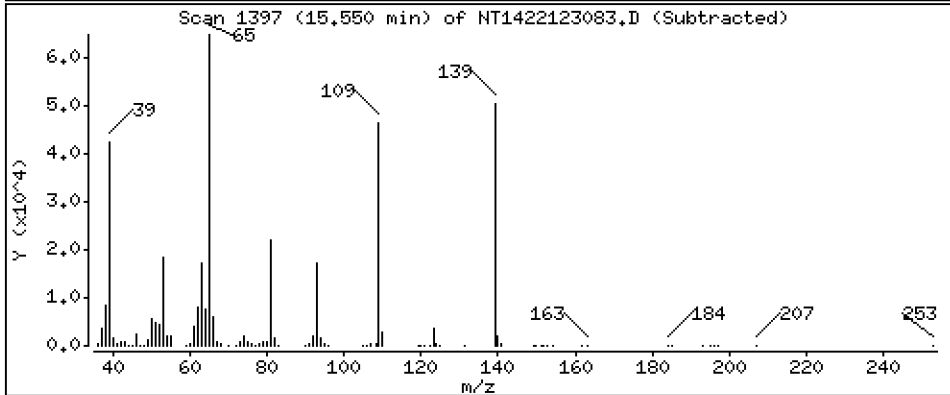
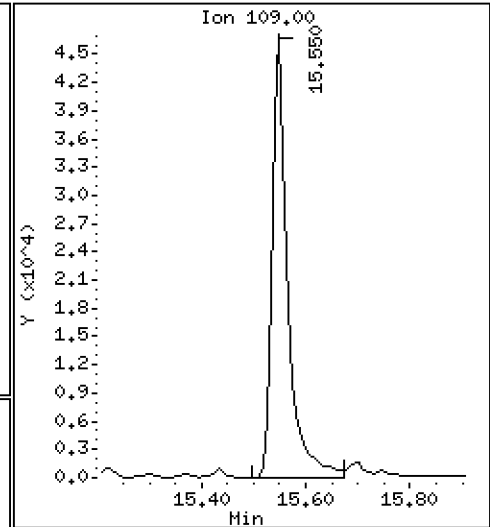
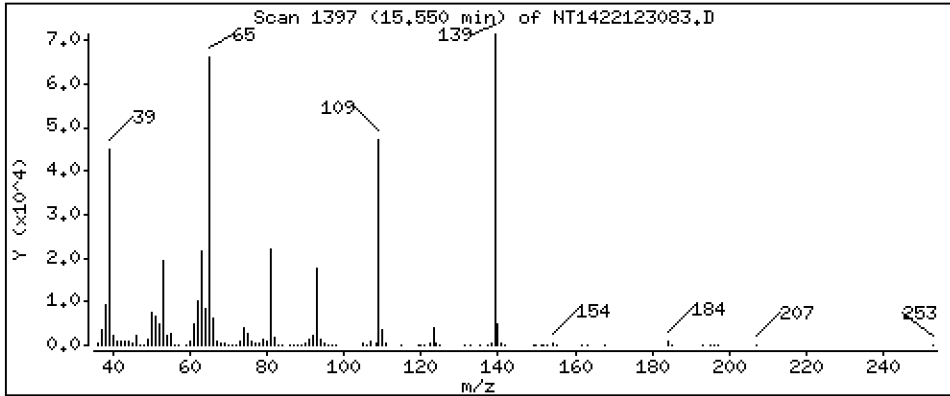
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

47 4-Nitrophenol

Concentration: 9.201 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

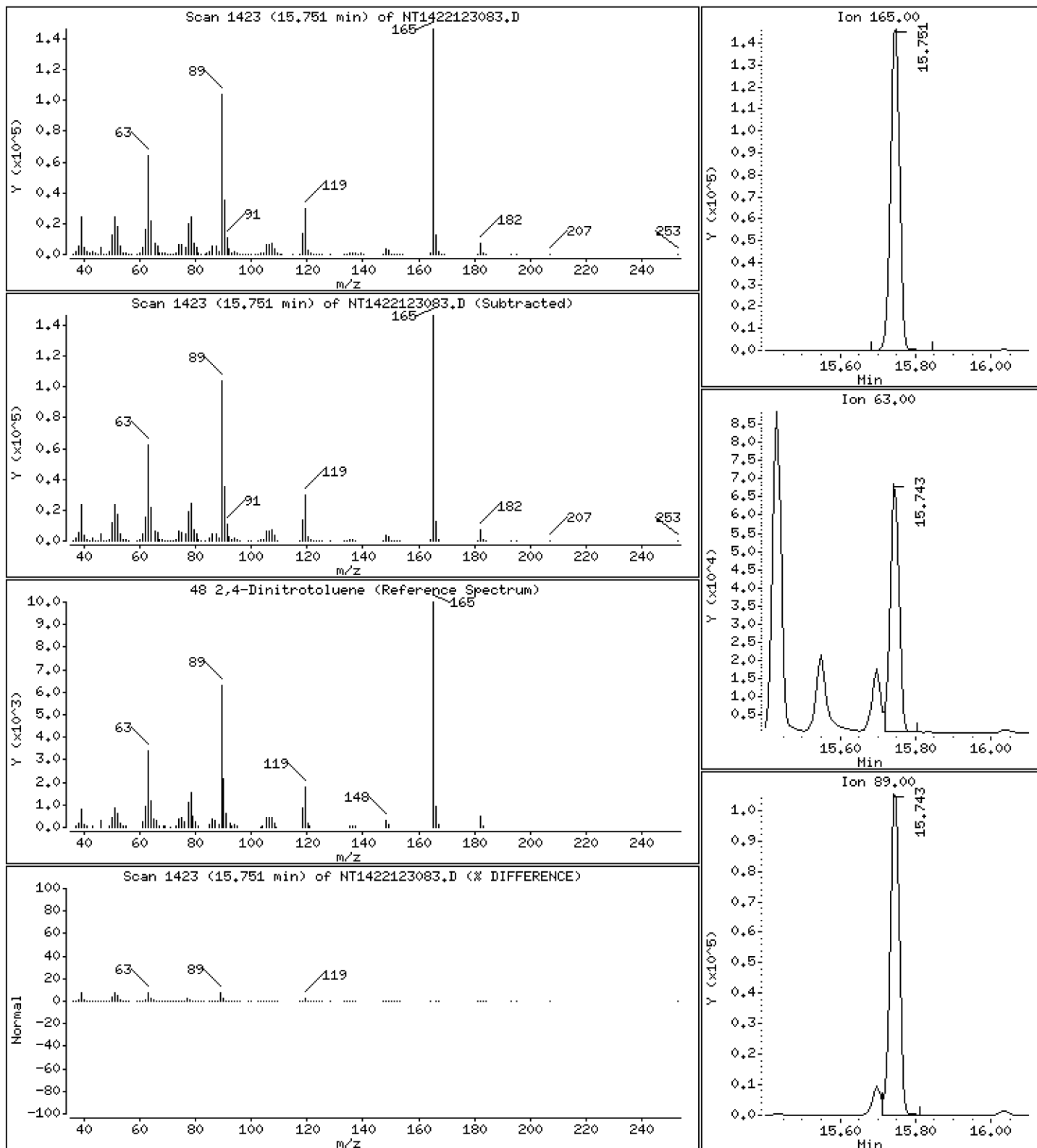
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 9,872 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

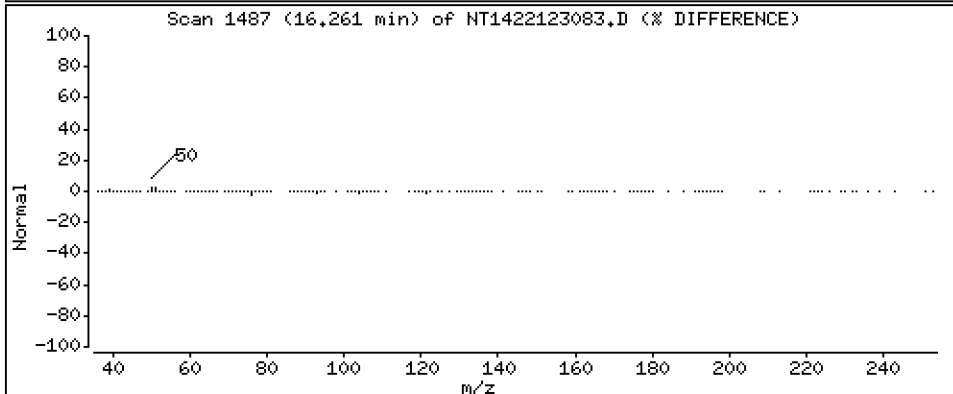
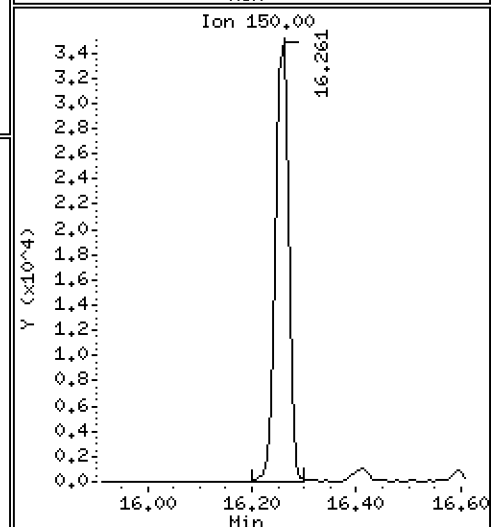
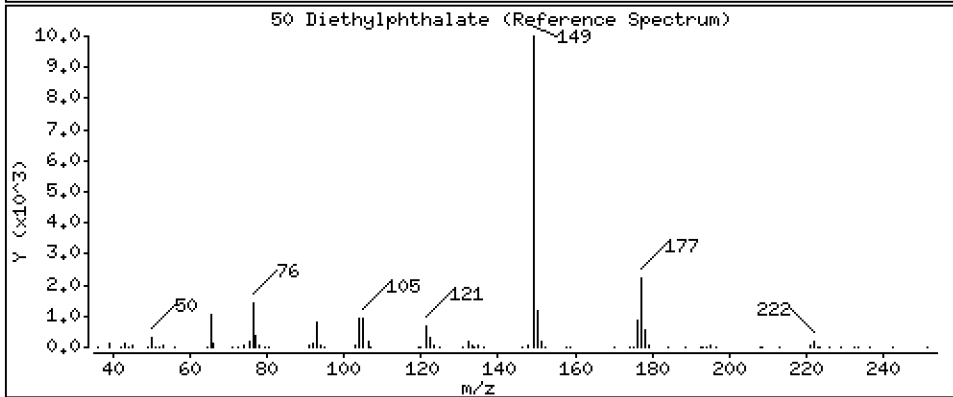
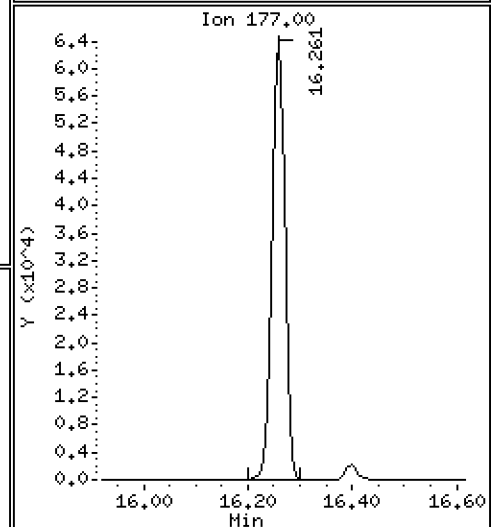
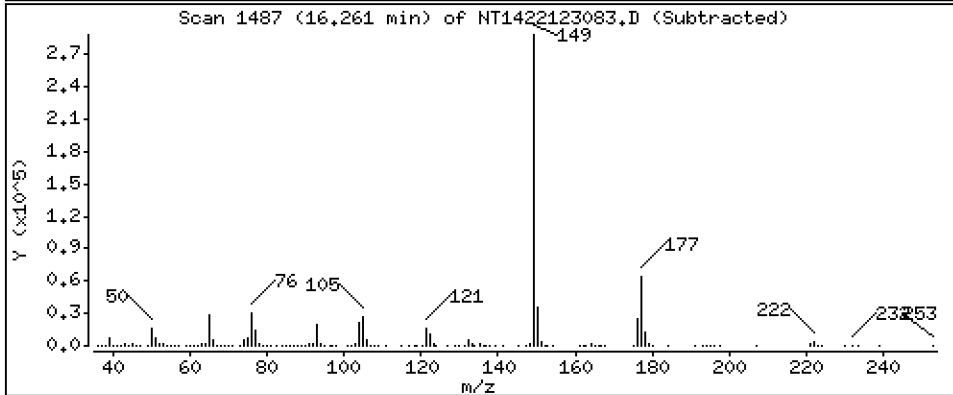
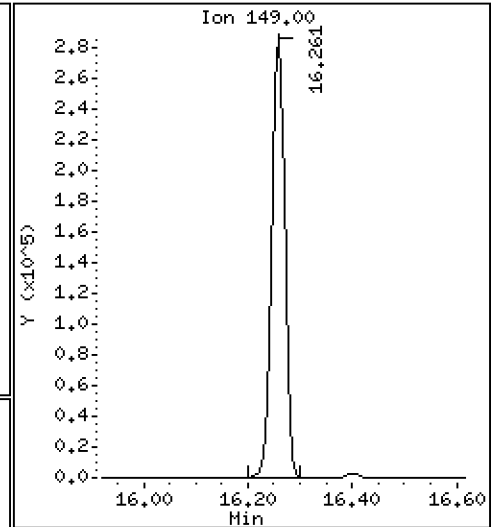
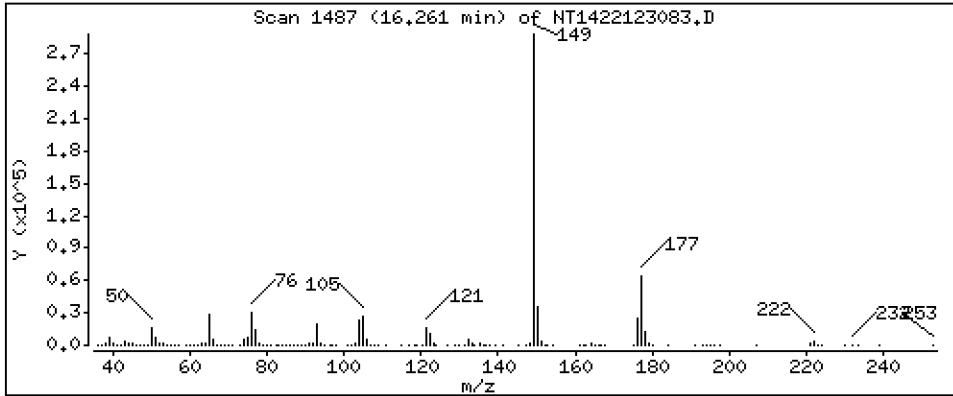
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 5,374 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

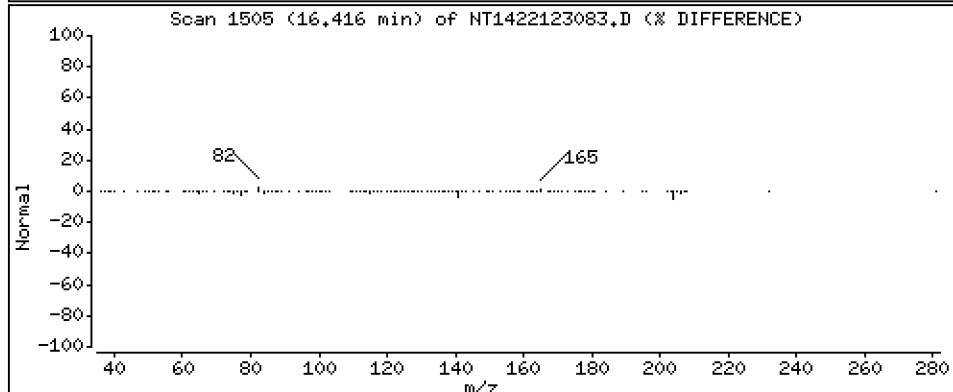
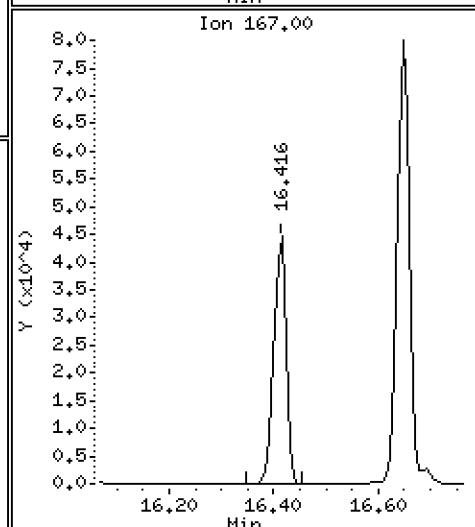
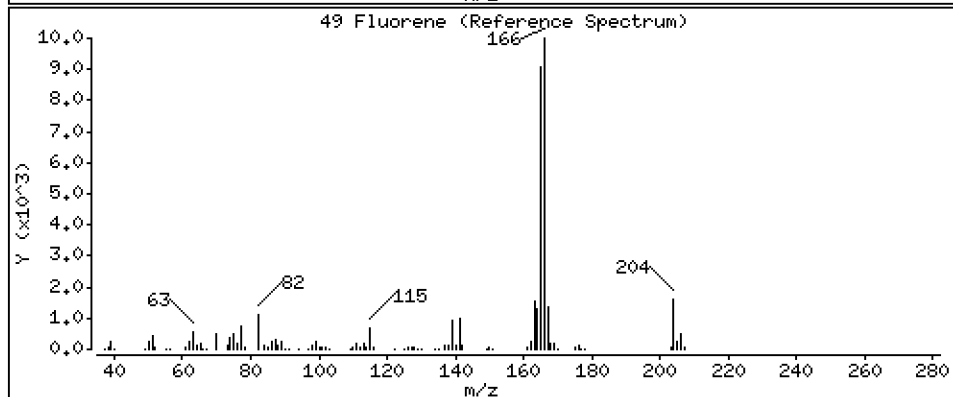
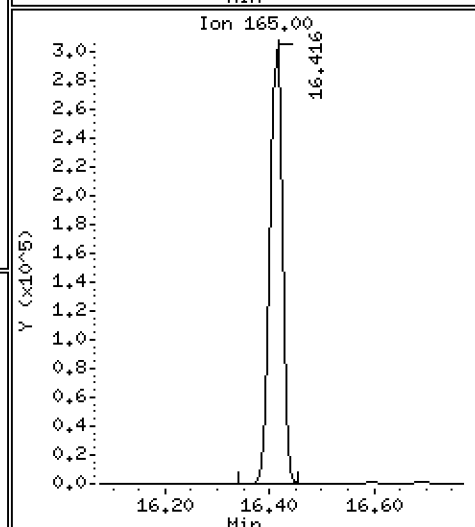
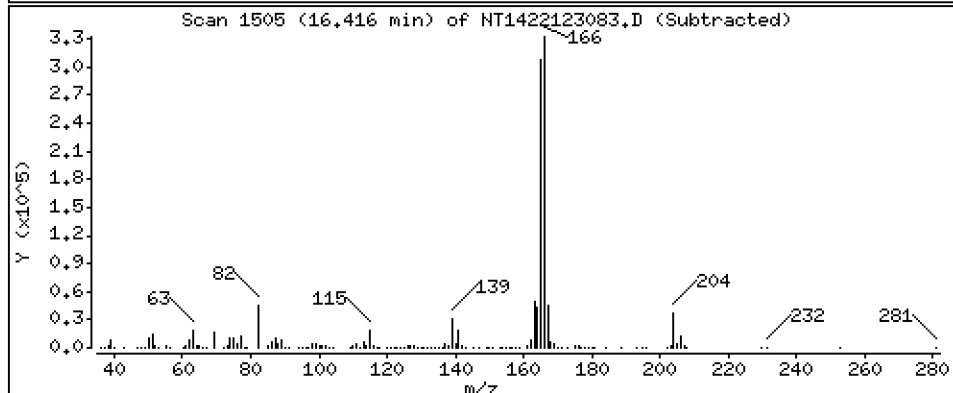
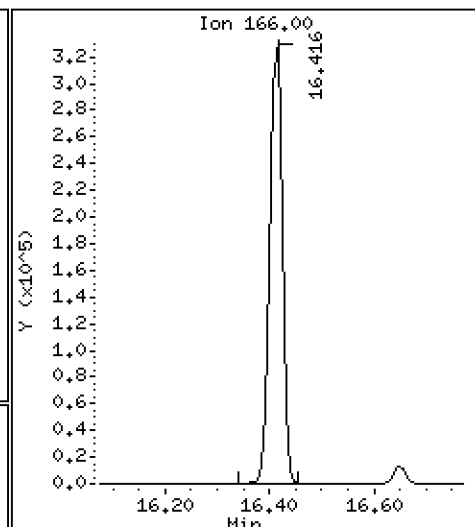
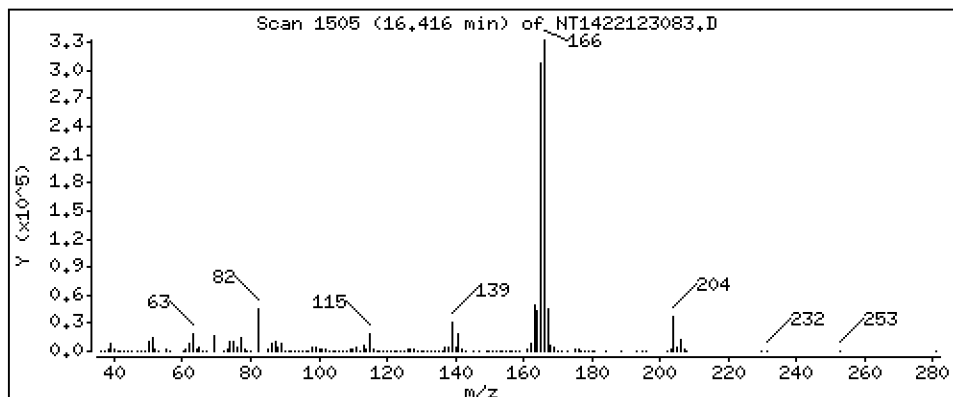
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 5,123 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

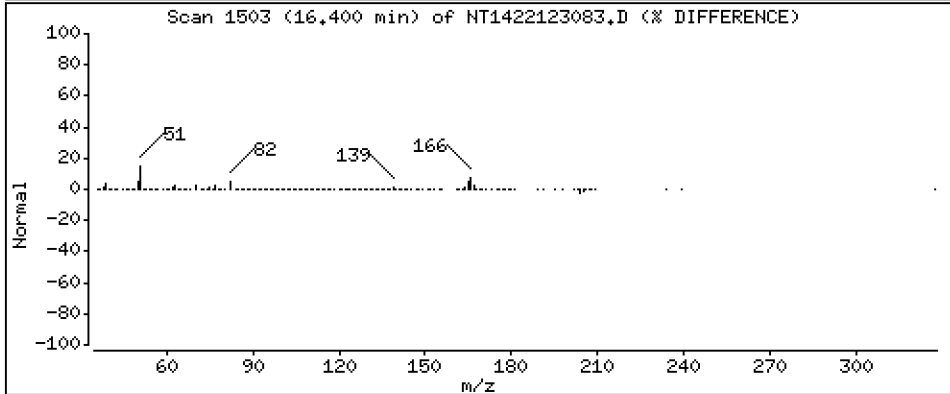
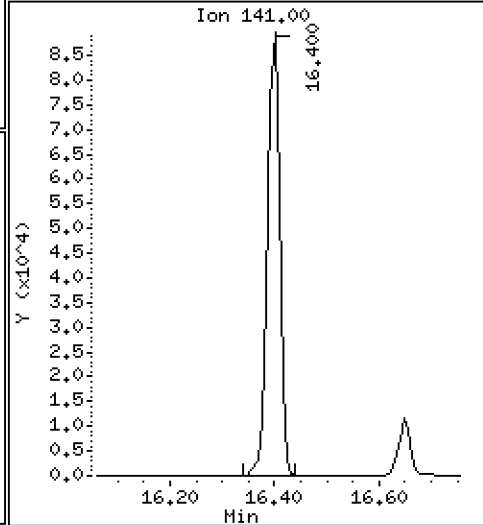
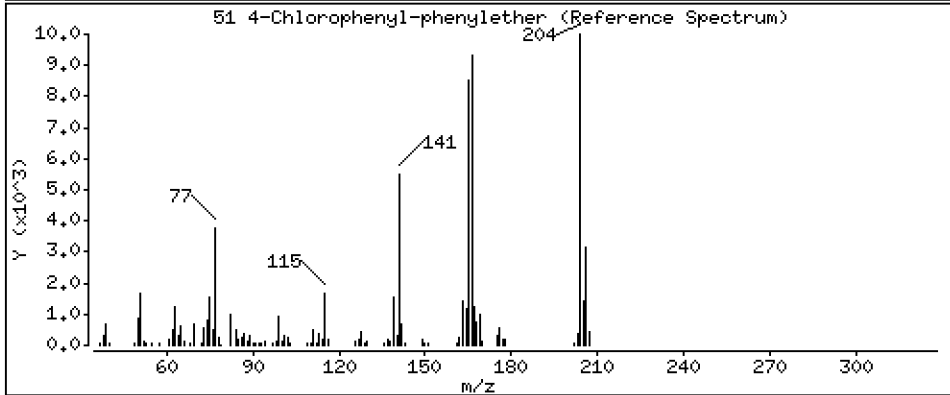
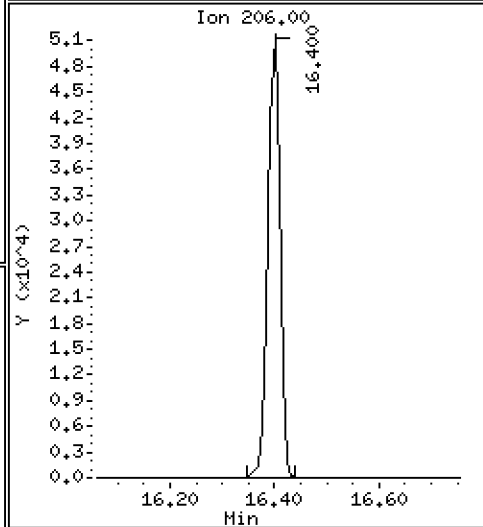
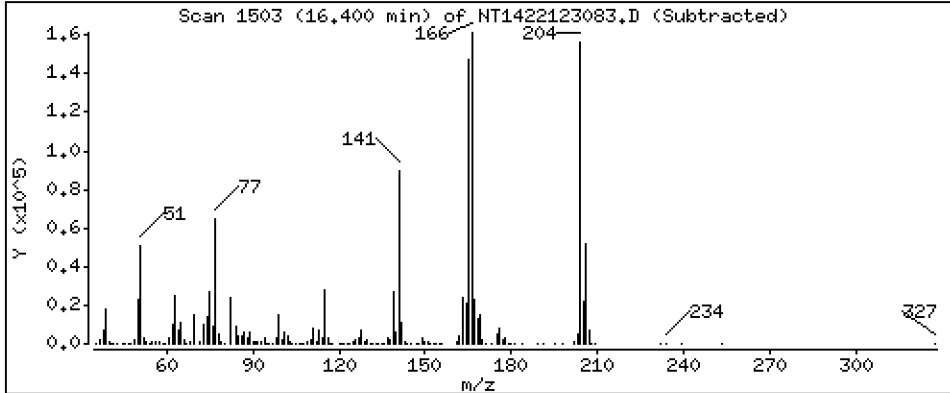
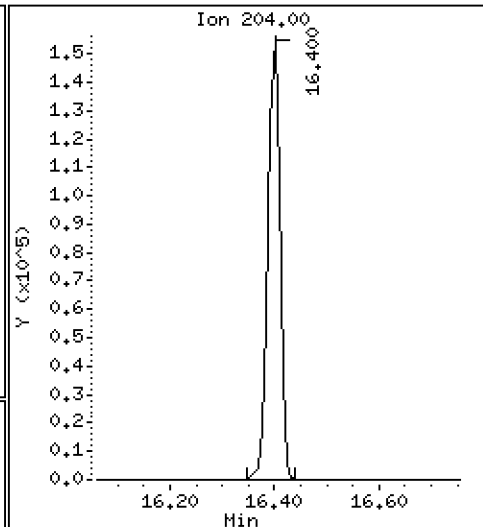
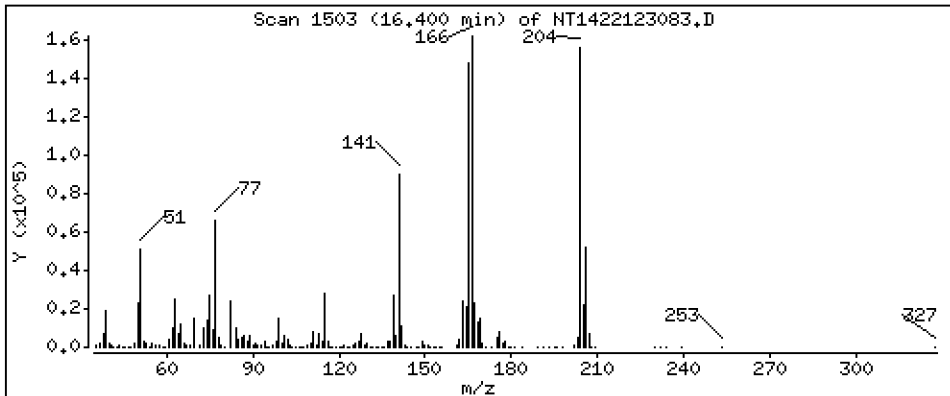
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 4,919 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

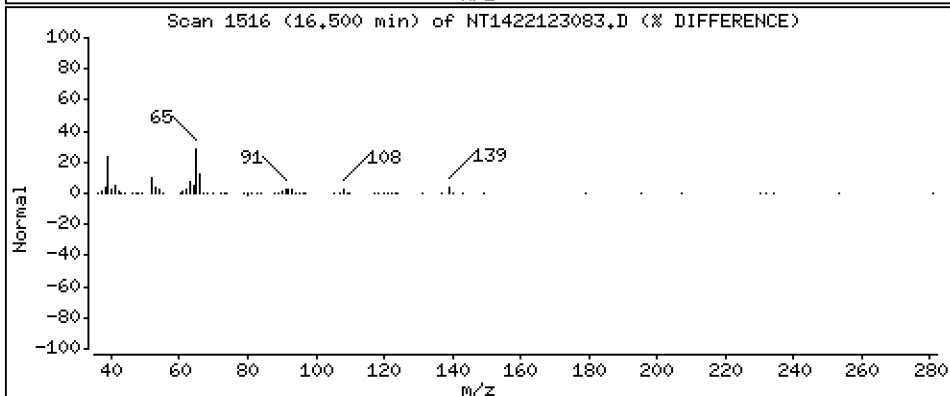
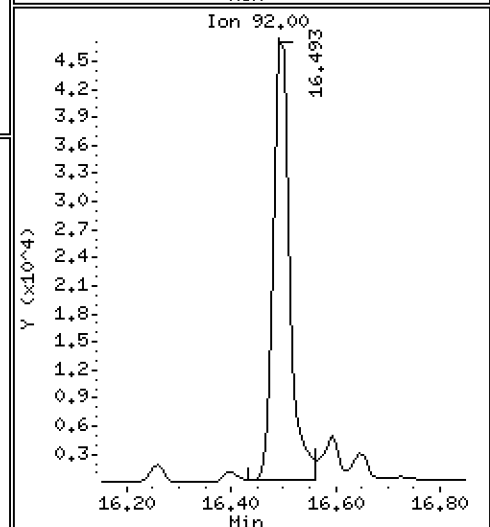
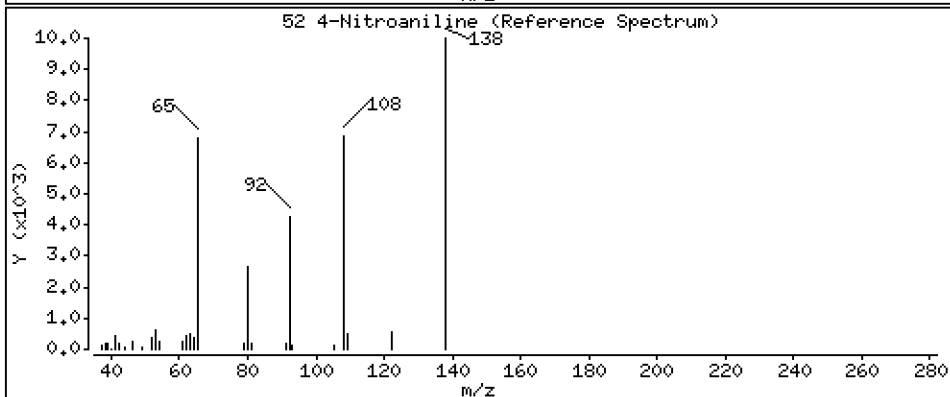
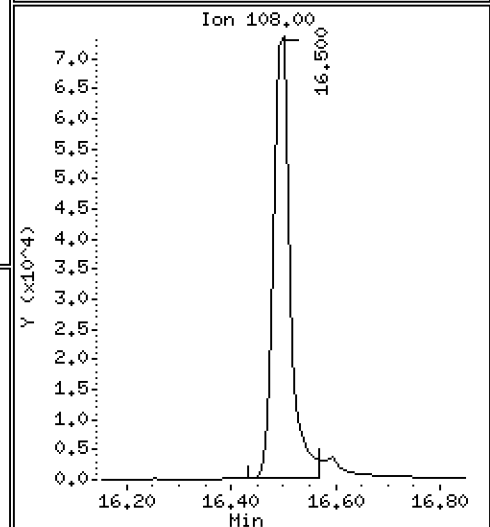
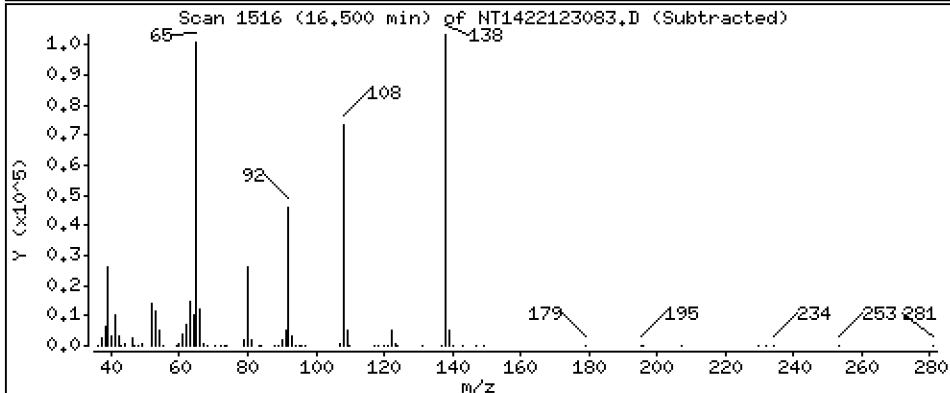
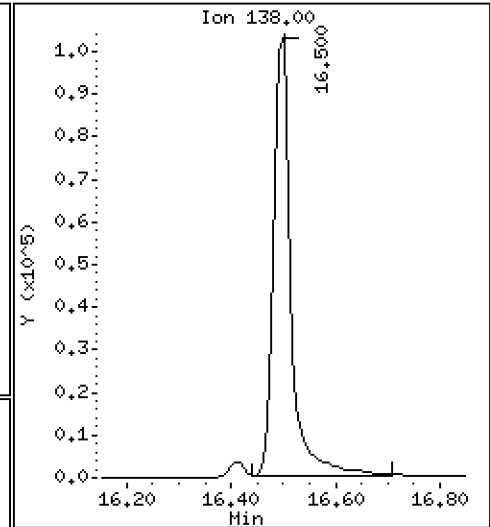
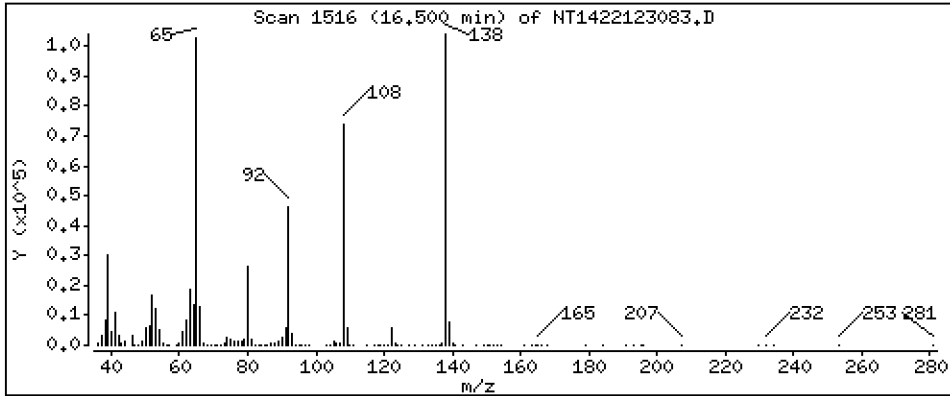
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 9,003 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

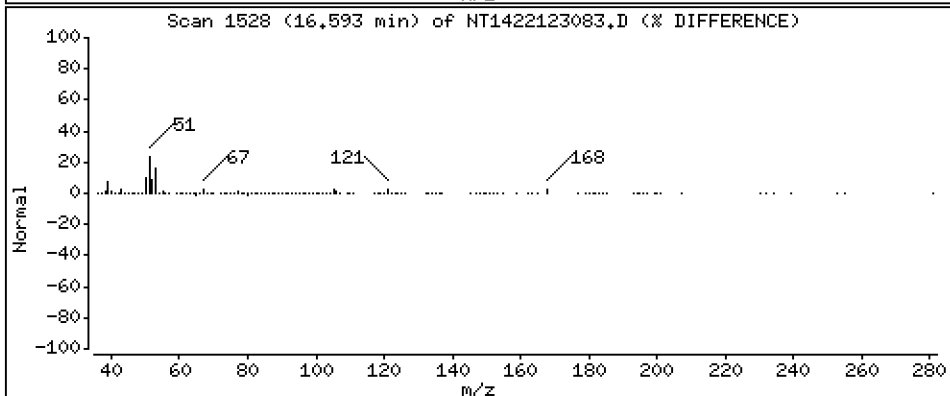
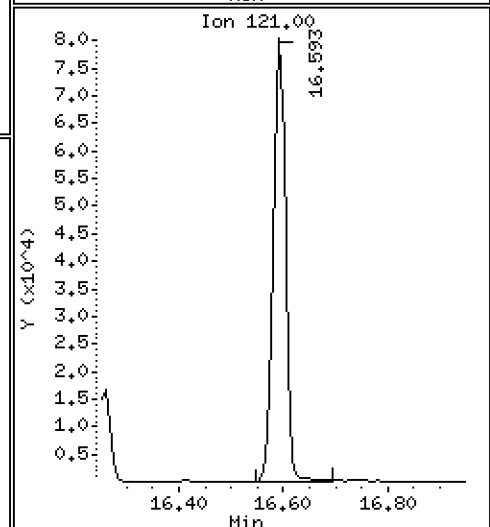
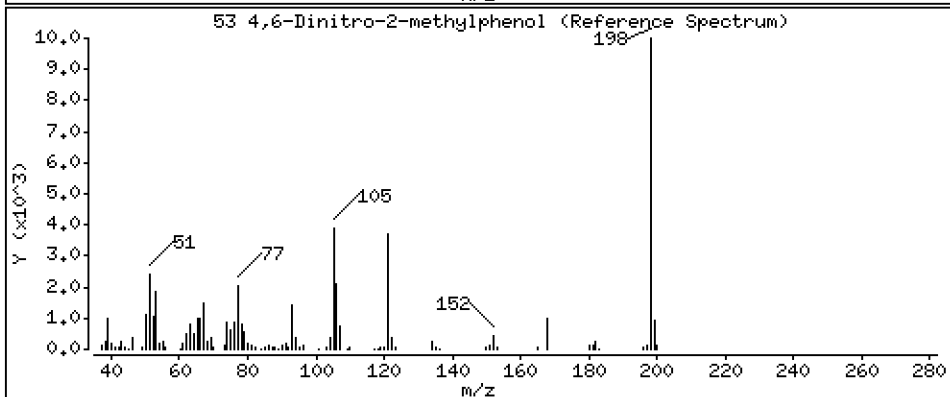
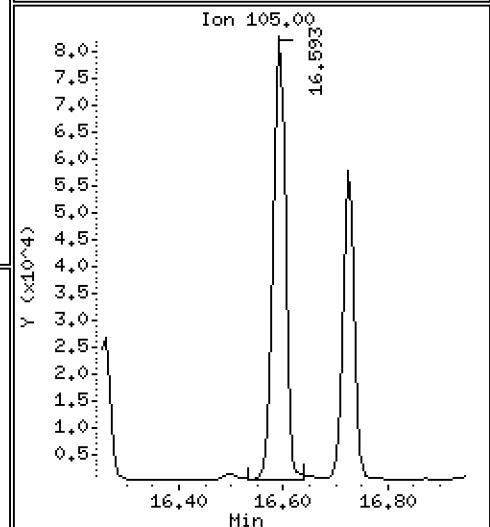
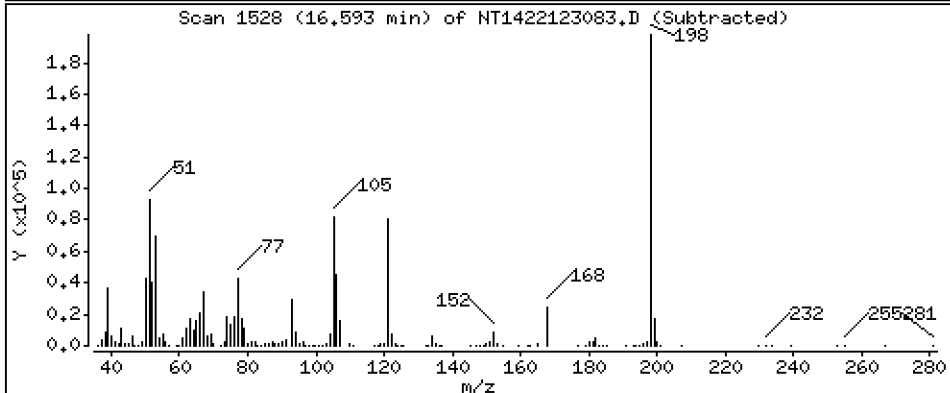
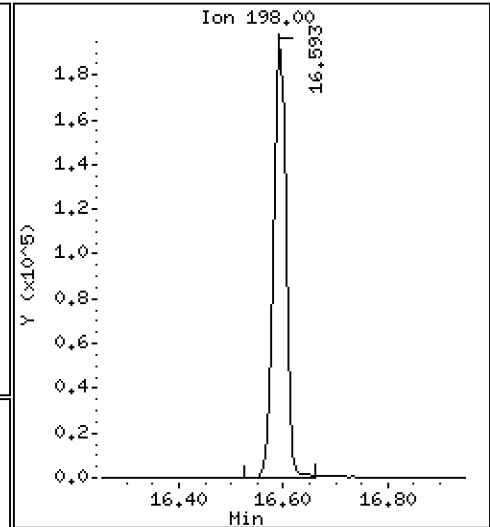
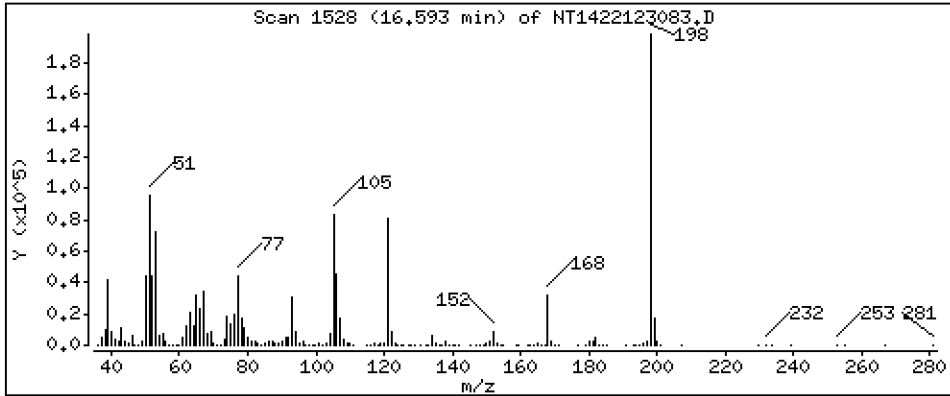
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 16,46 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

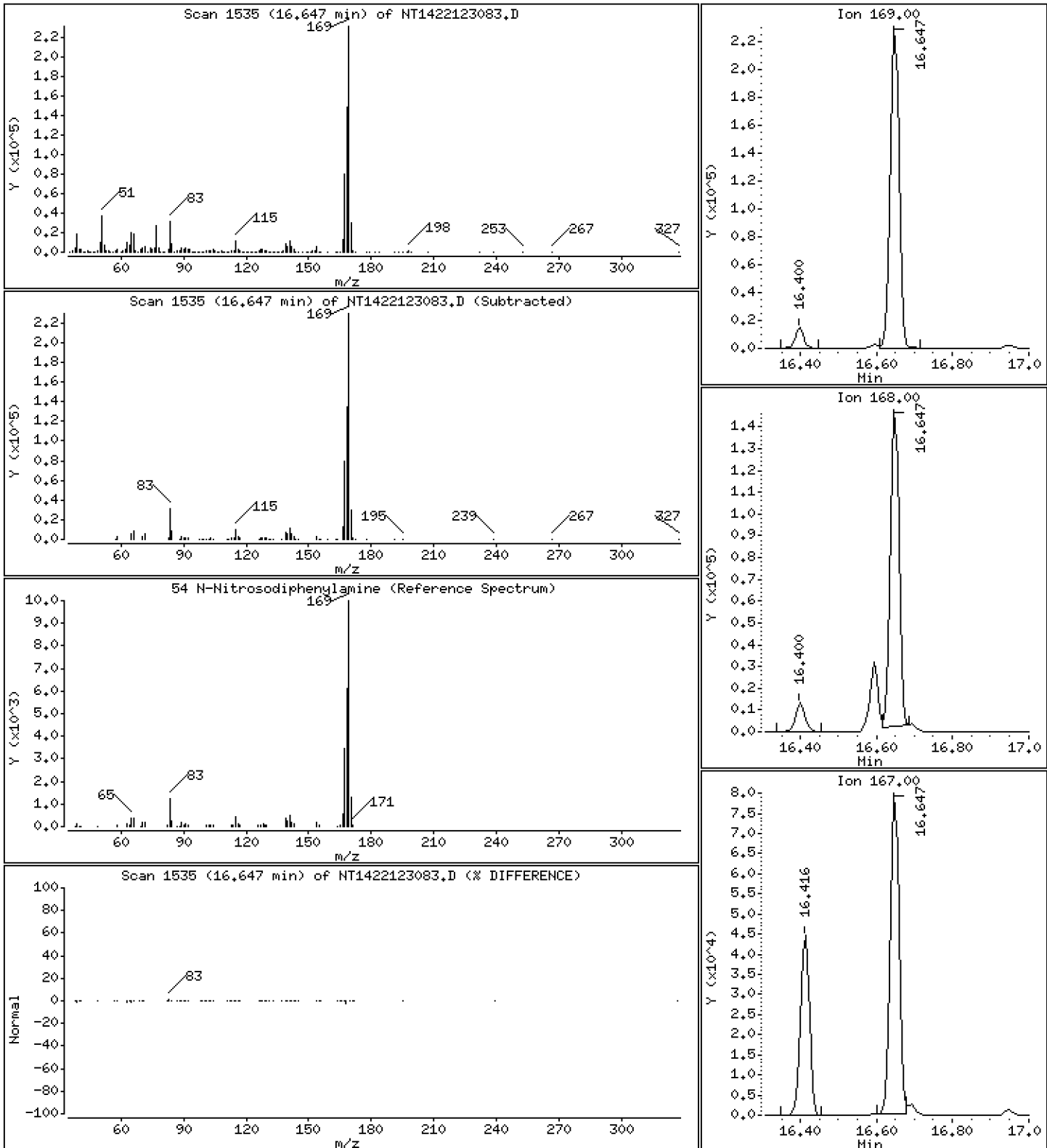
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 4,800 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

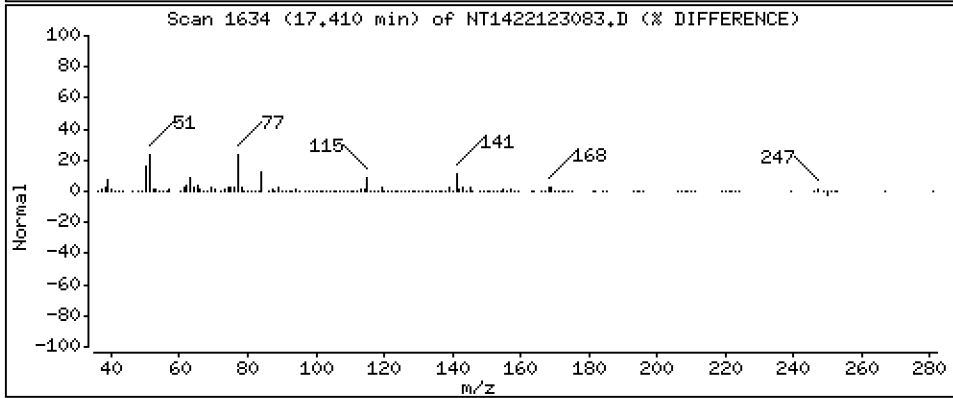
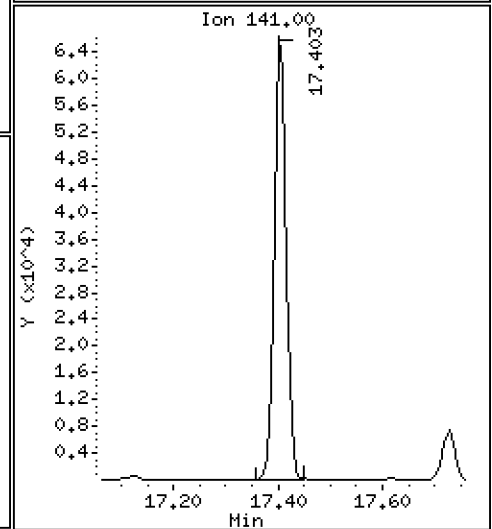
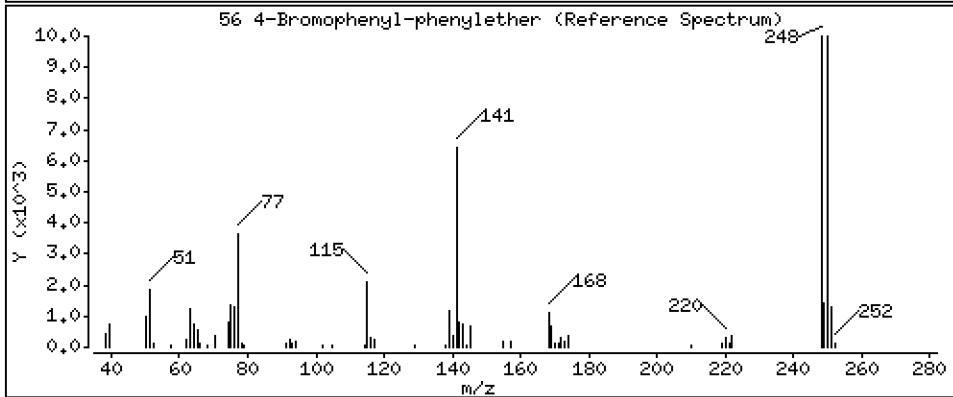
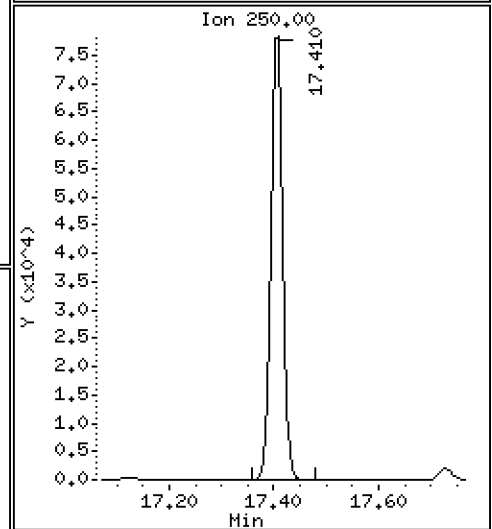
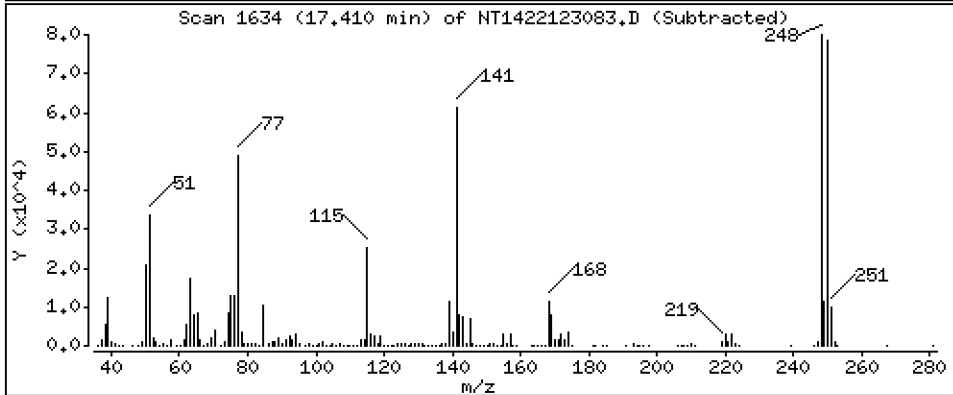
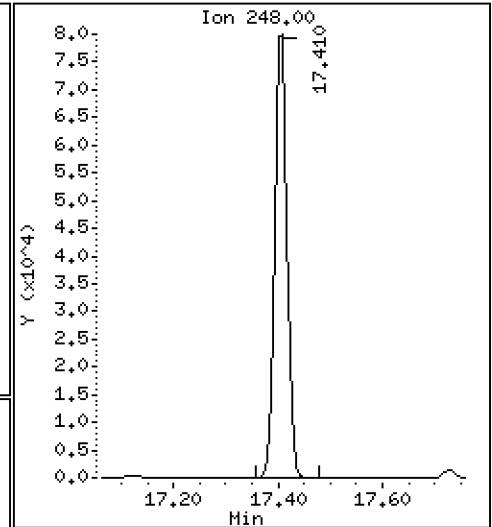
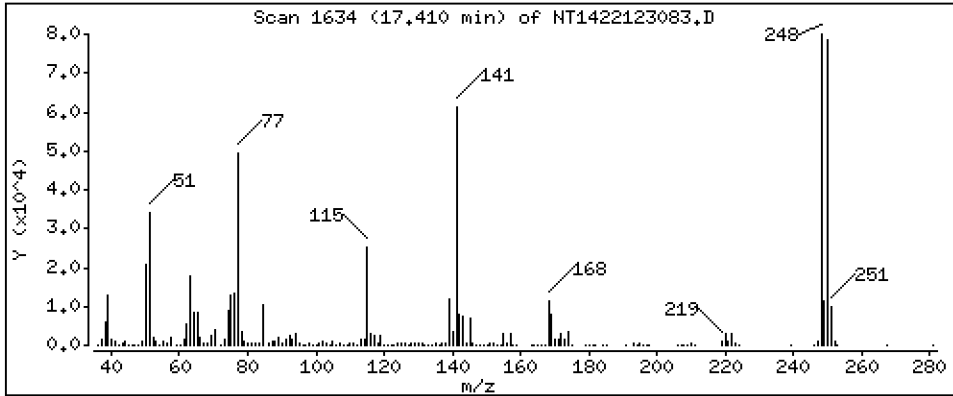
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 4,724 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

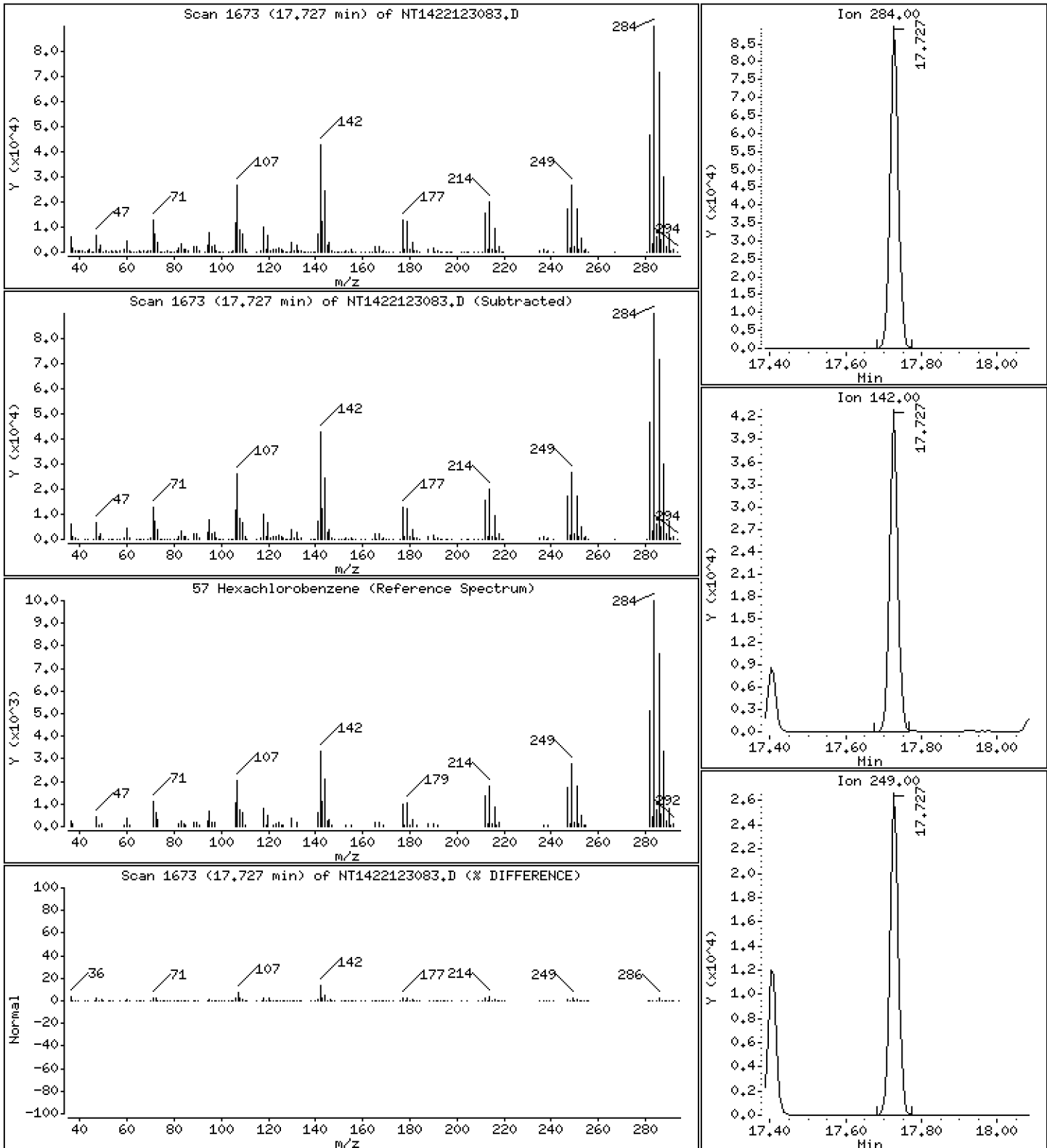
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 4,553 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

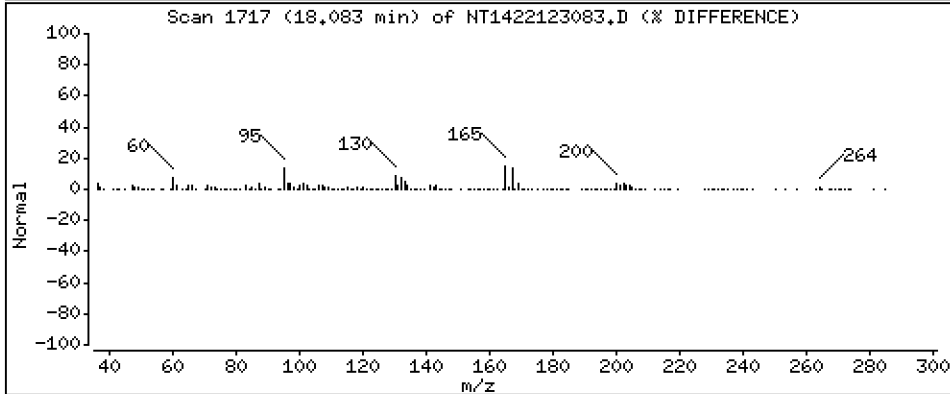
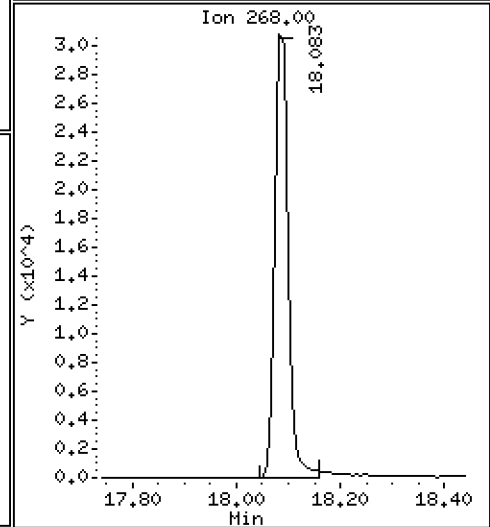
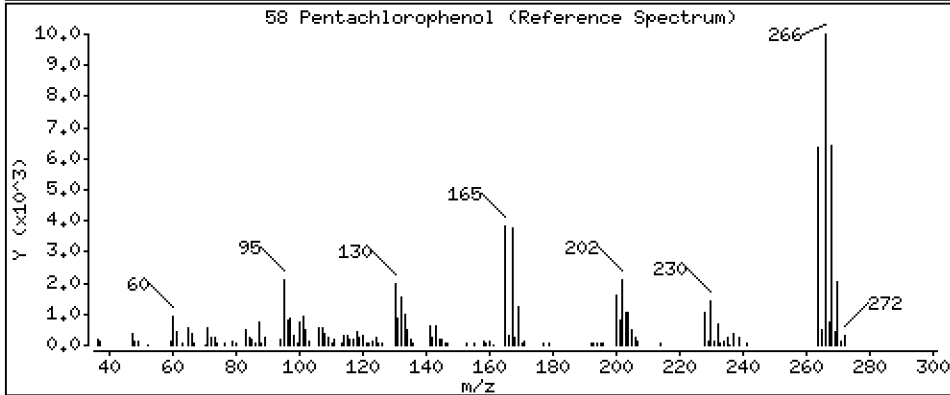
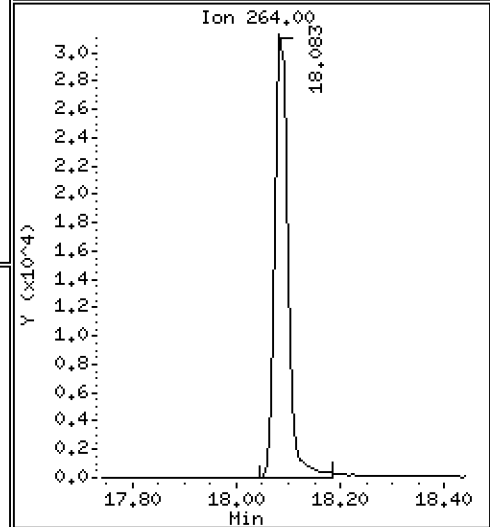
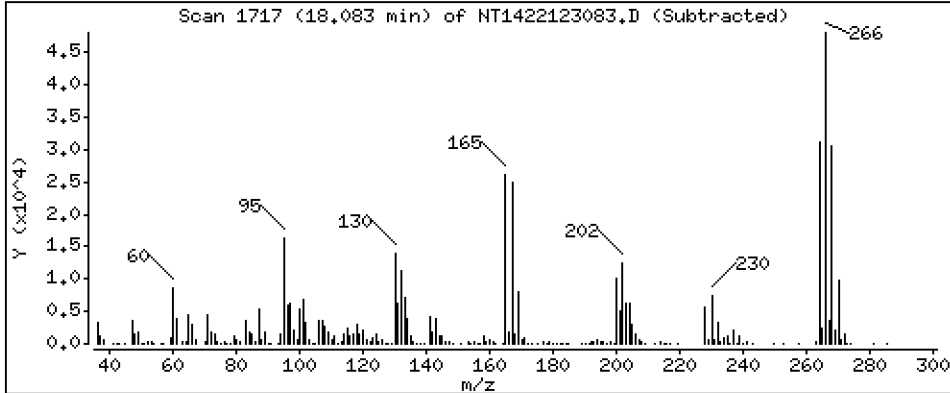
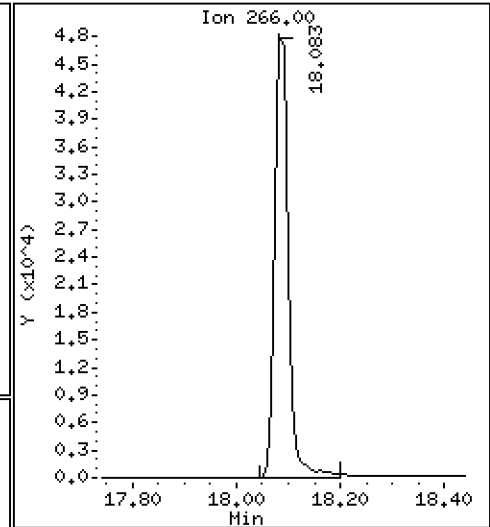
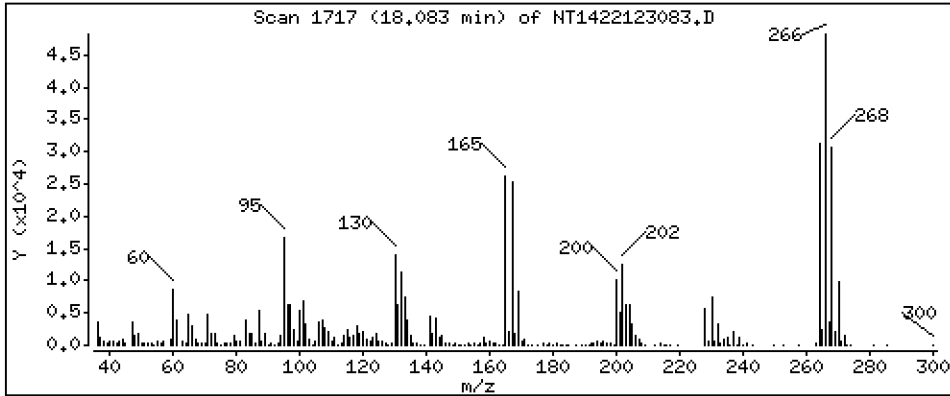
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 6,130 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

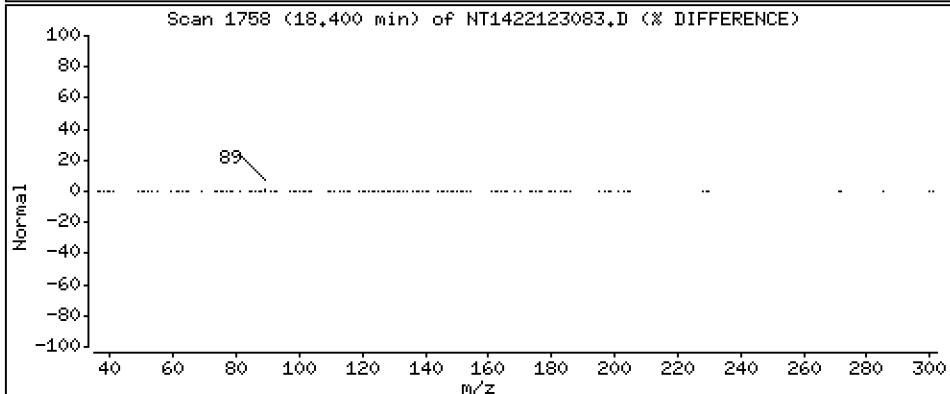
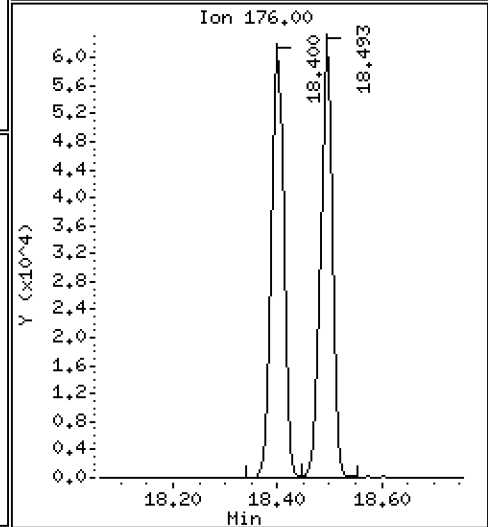
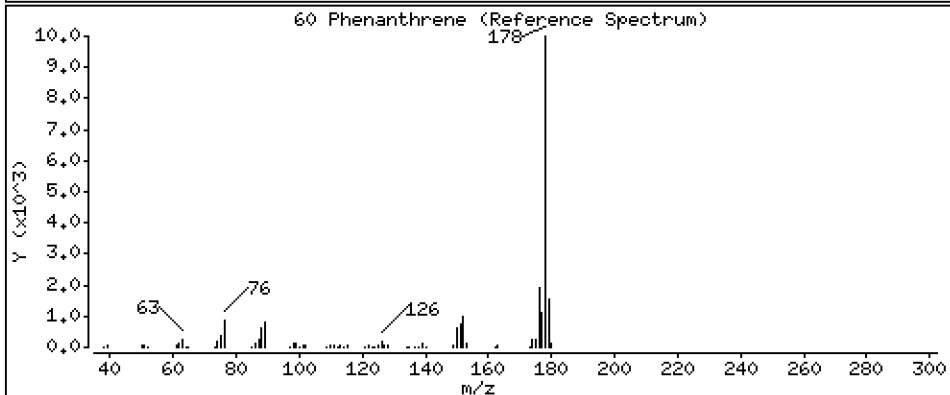
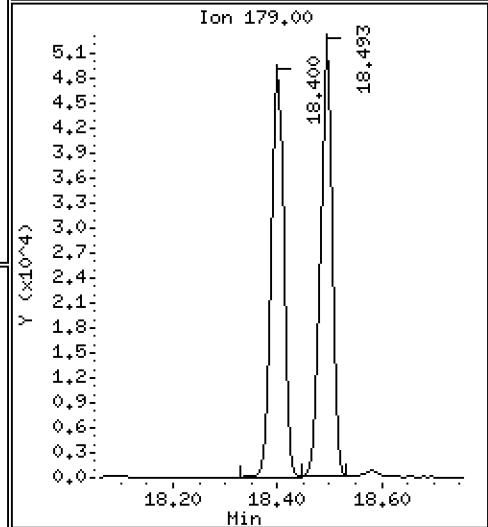
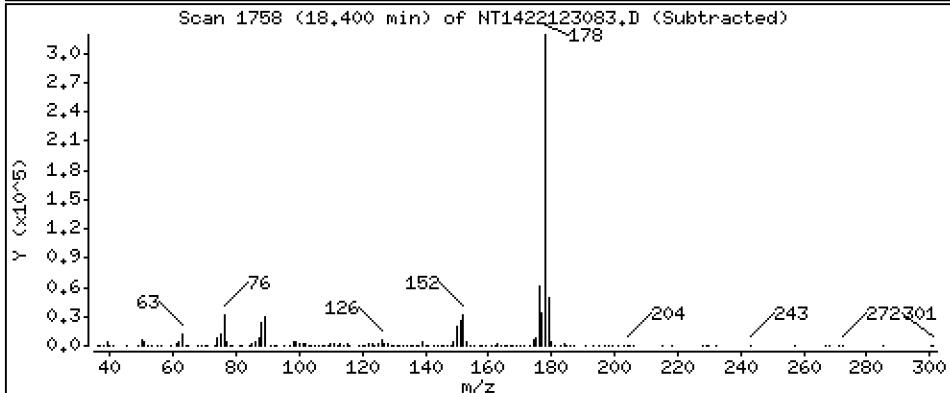
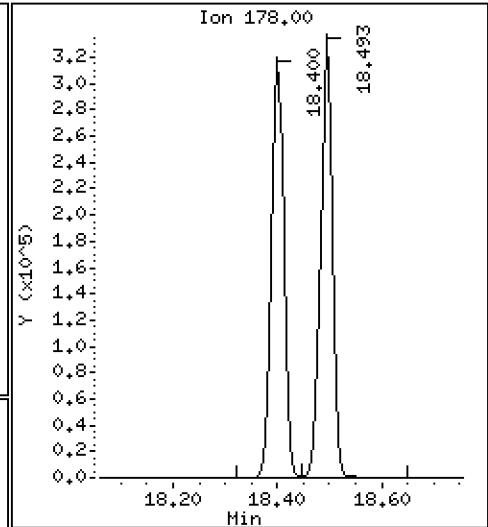
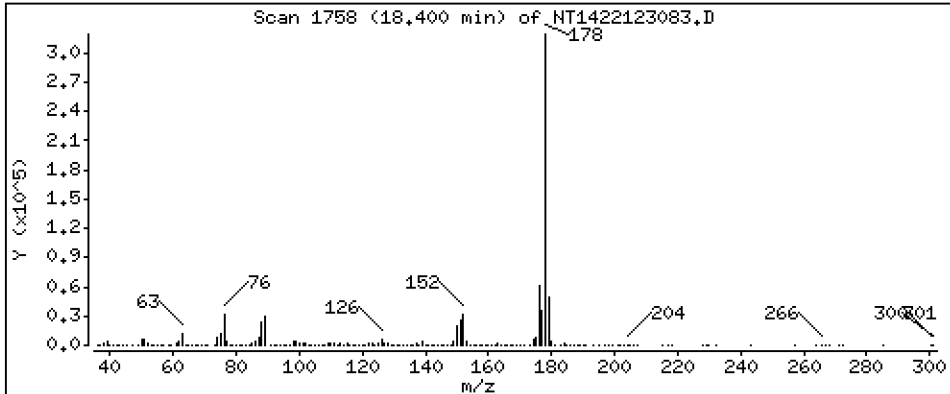
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 4,508 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

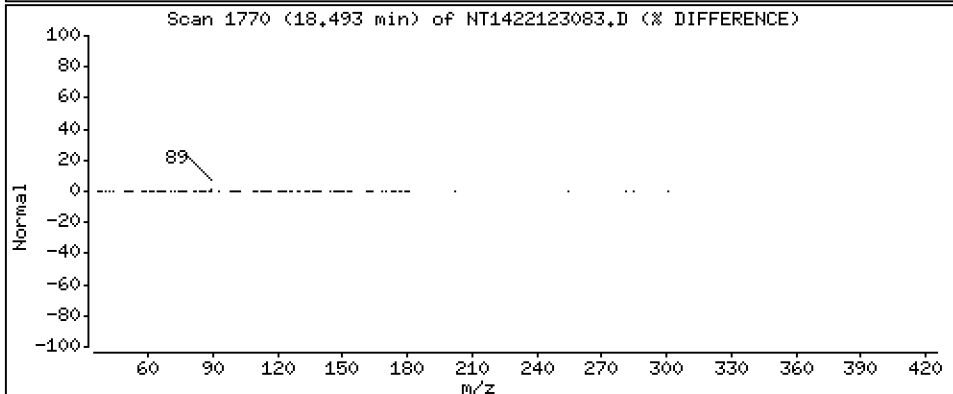
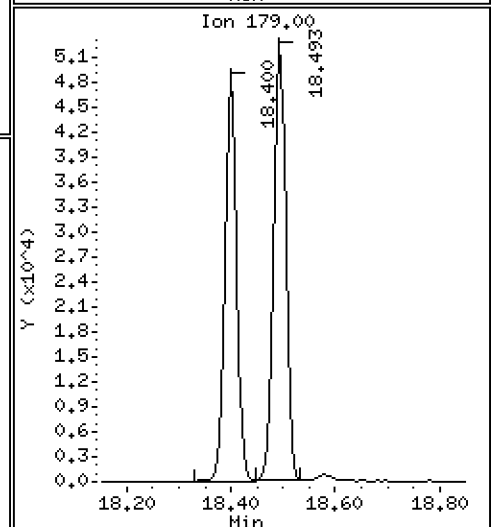
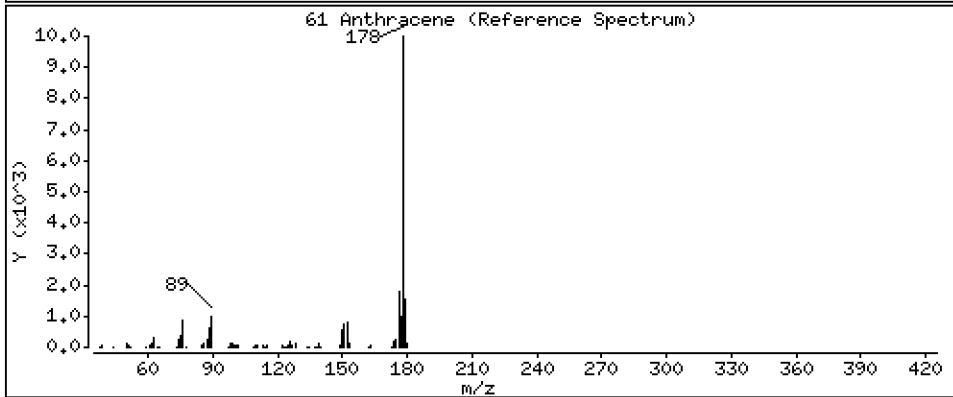
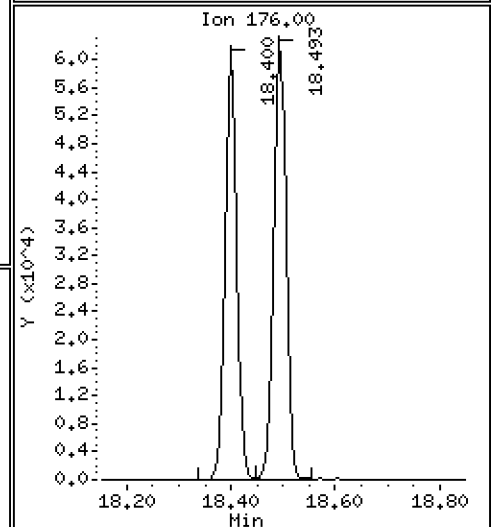
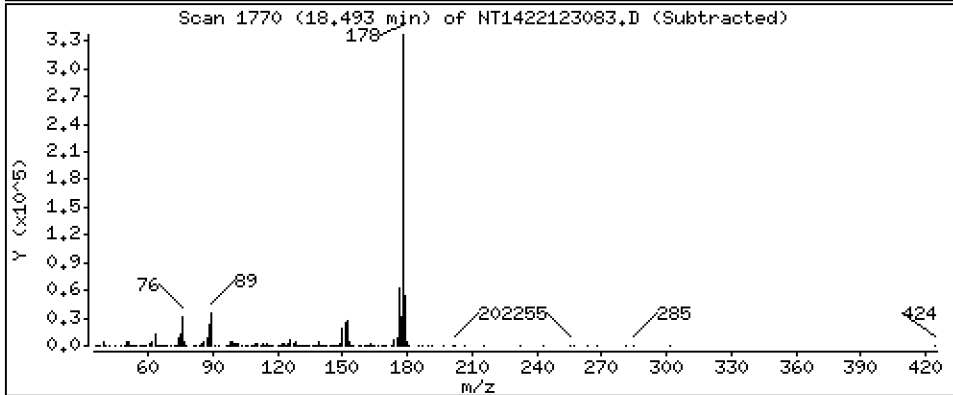
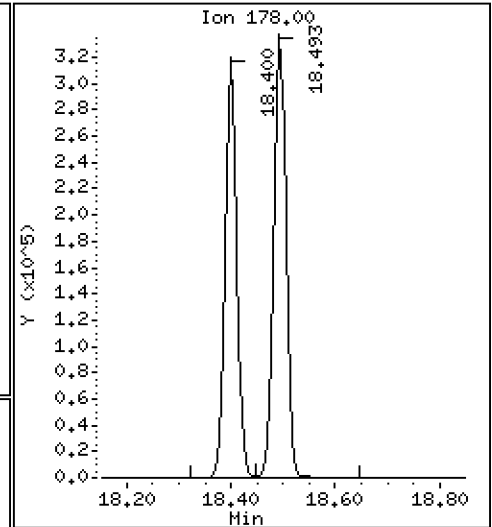
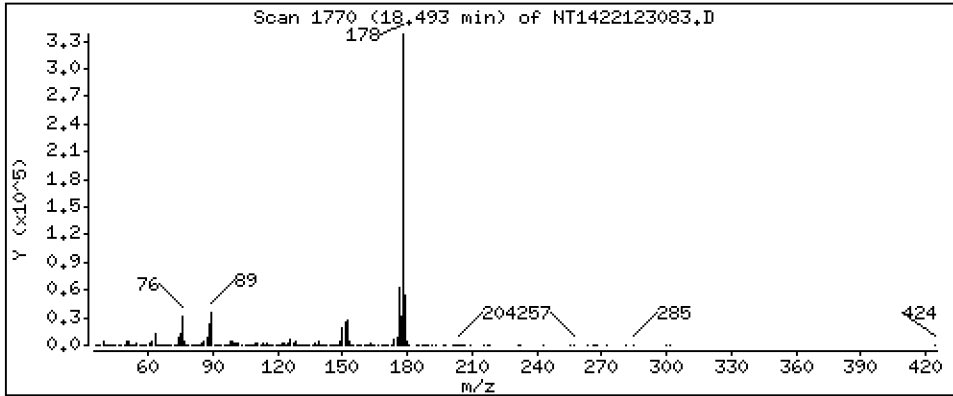
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 4,908 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

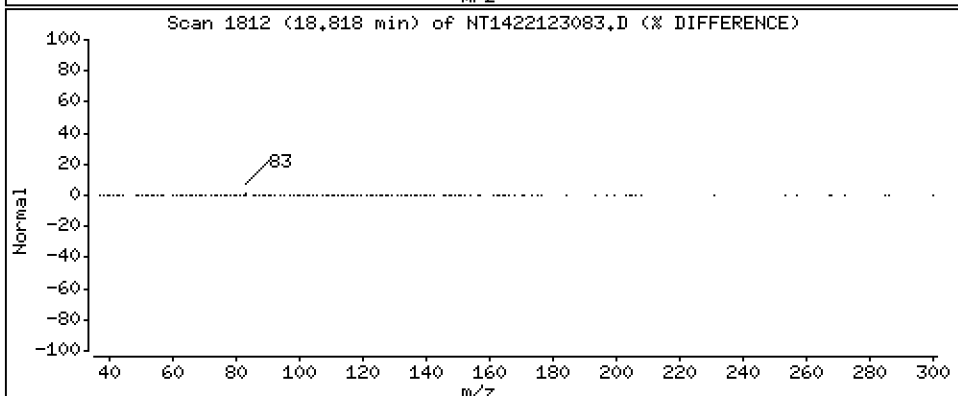
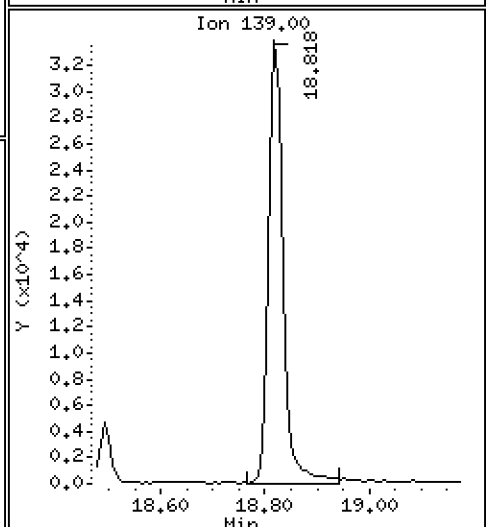
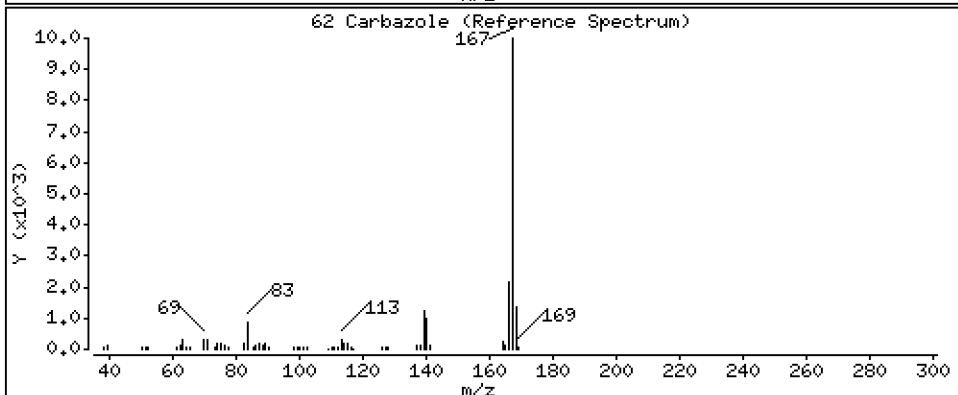
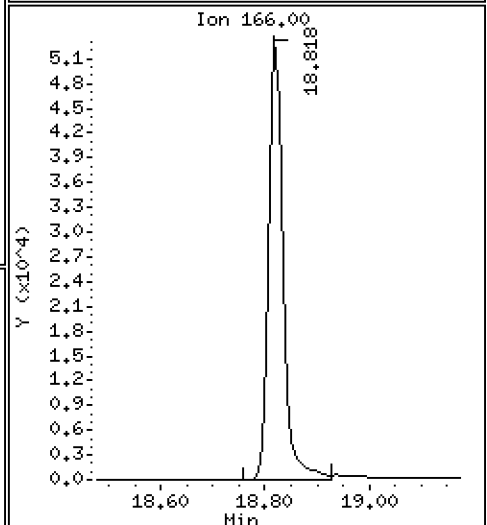
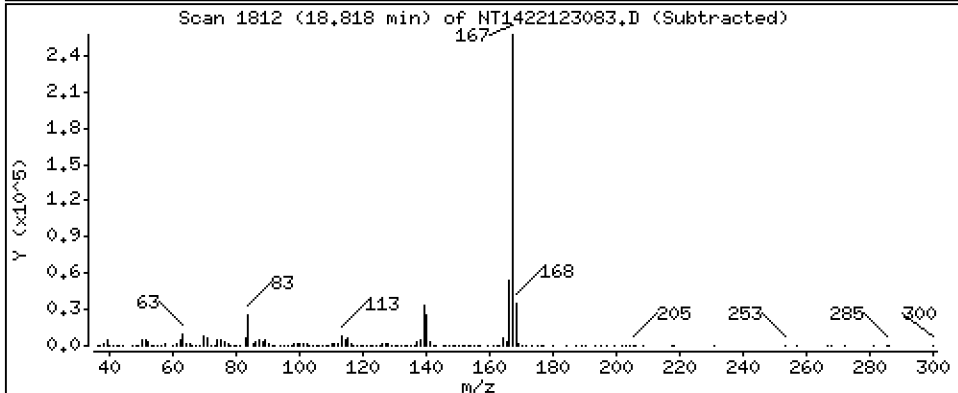
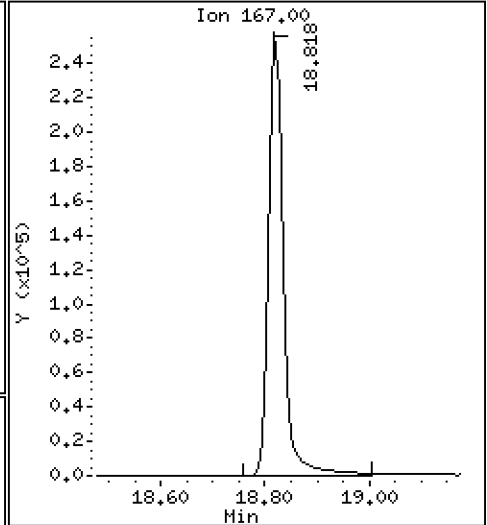
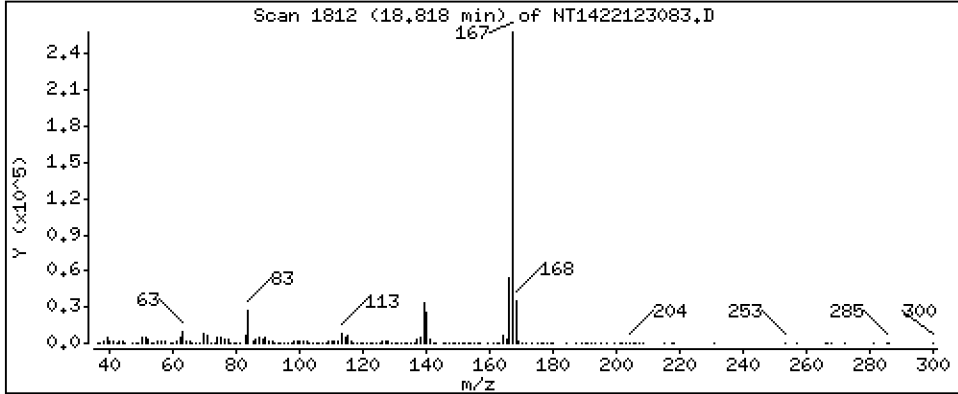
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 4,745 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

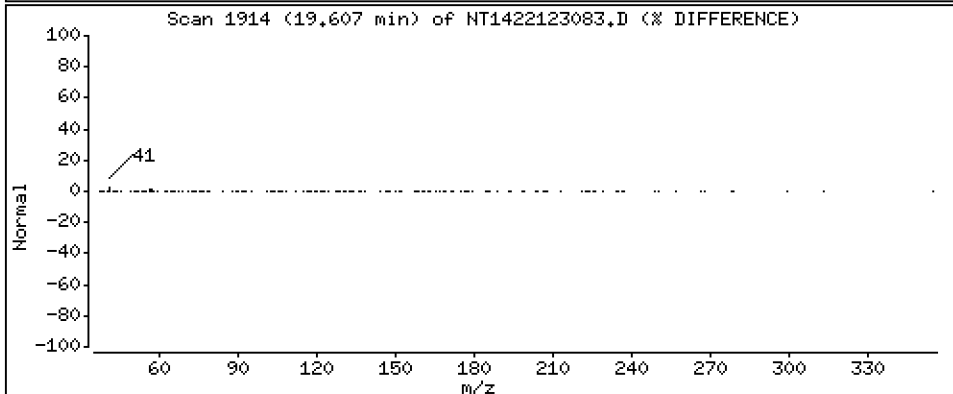
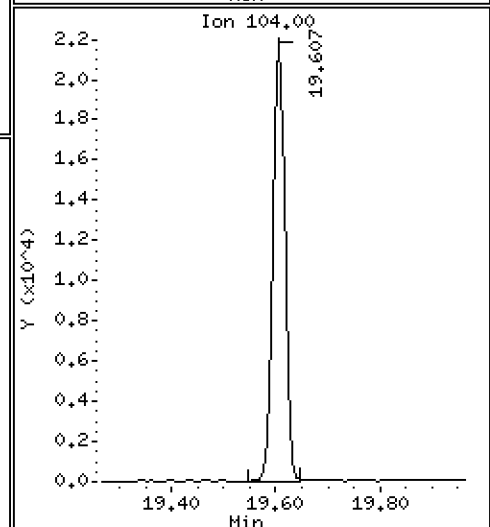
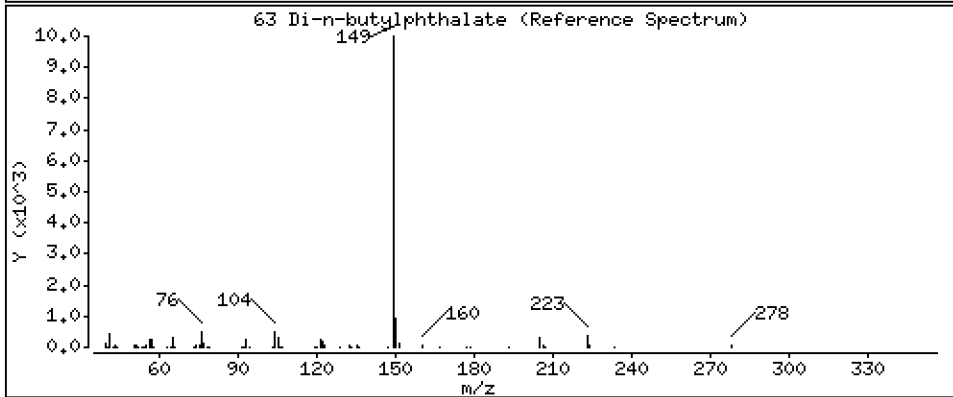
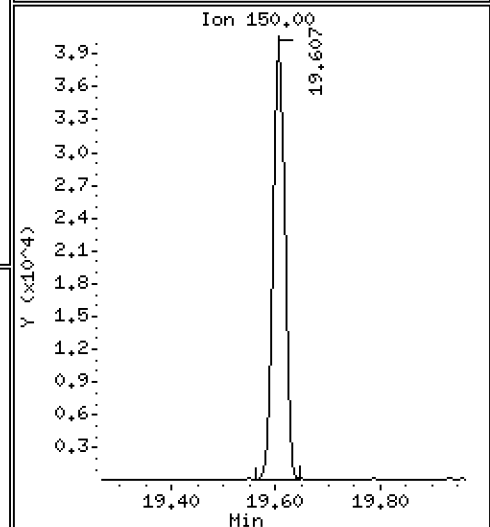
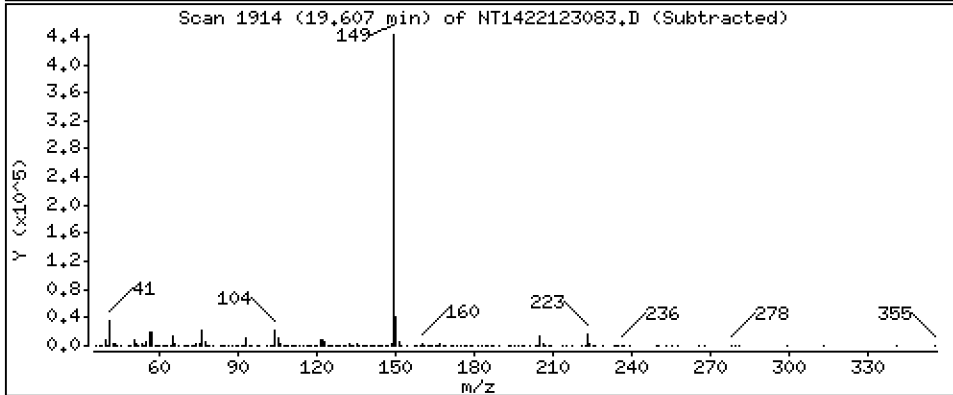
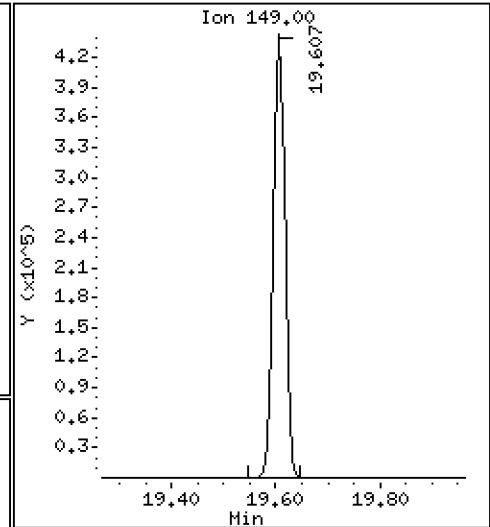
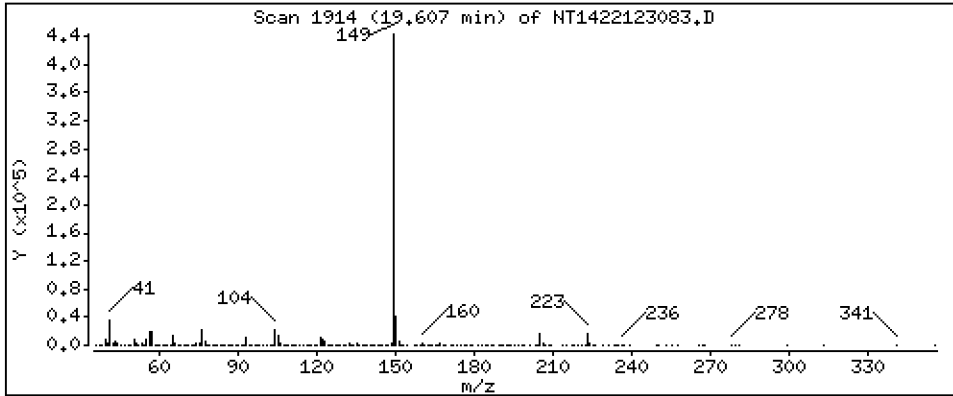
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 5,364 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

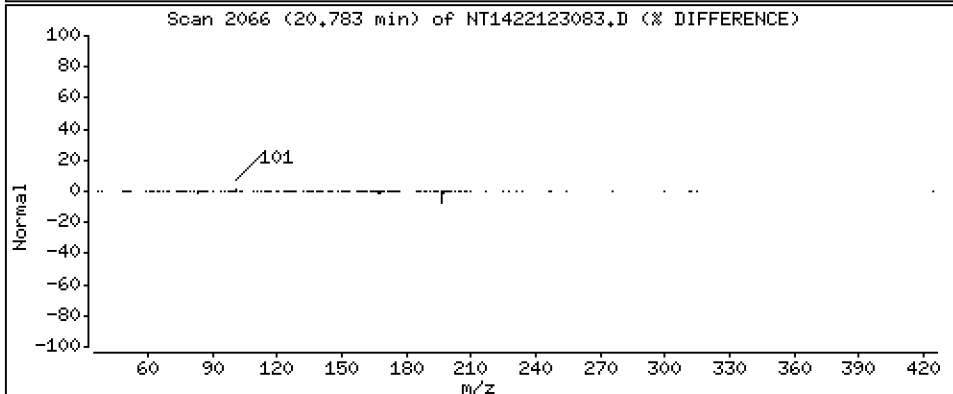
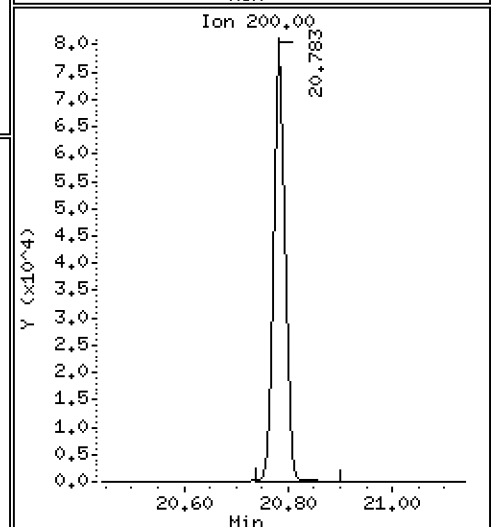
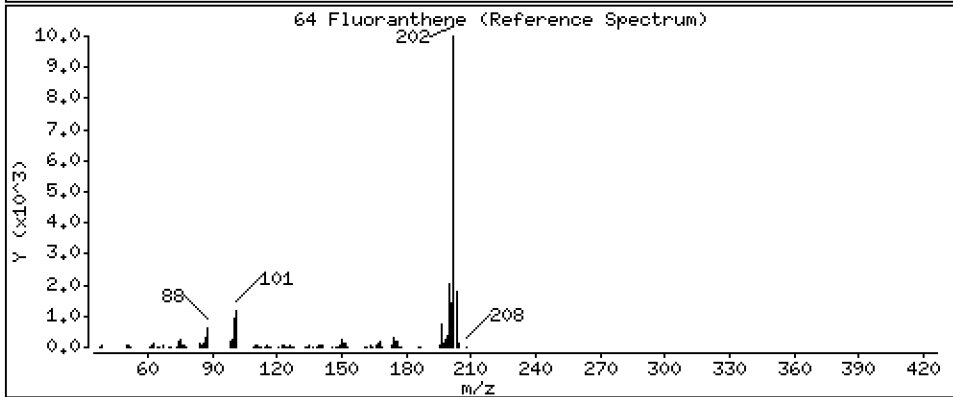
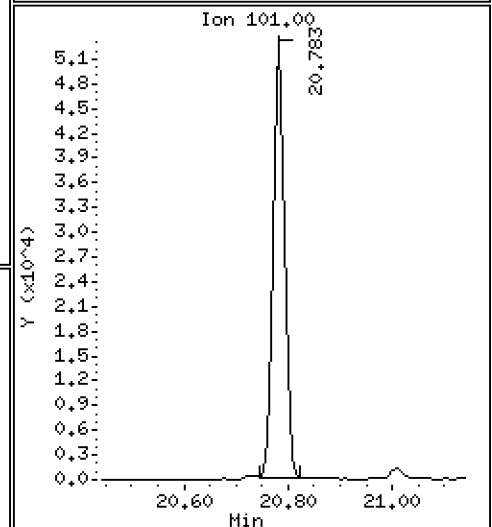
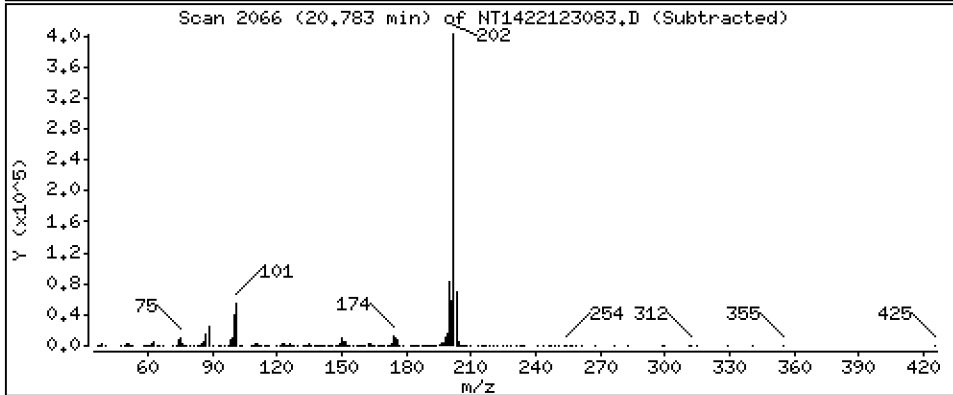
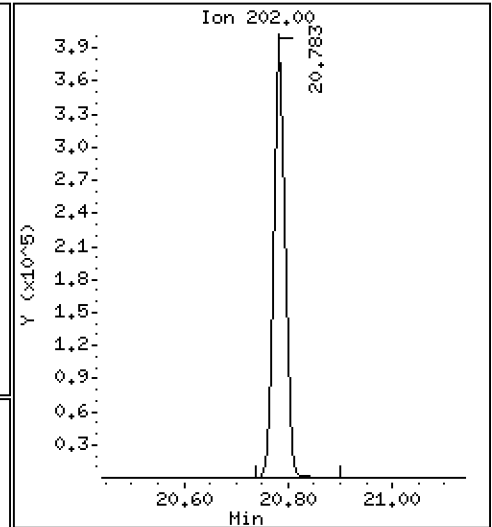
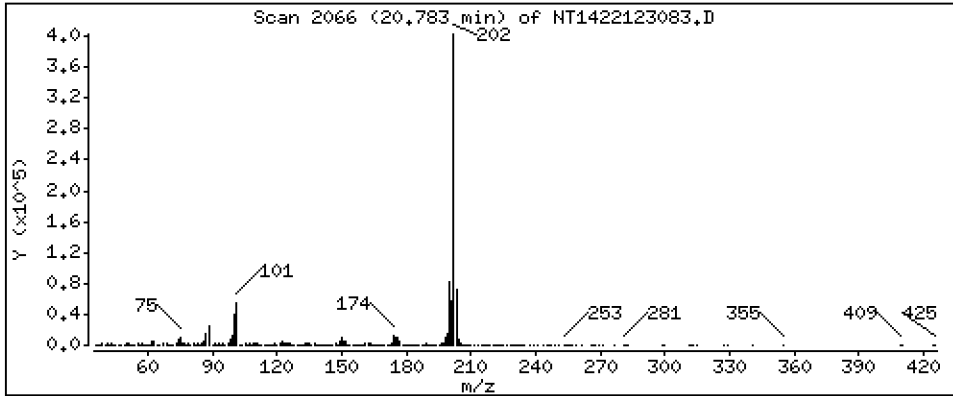
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 4,617 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

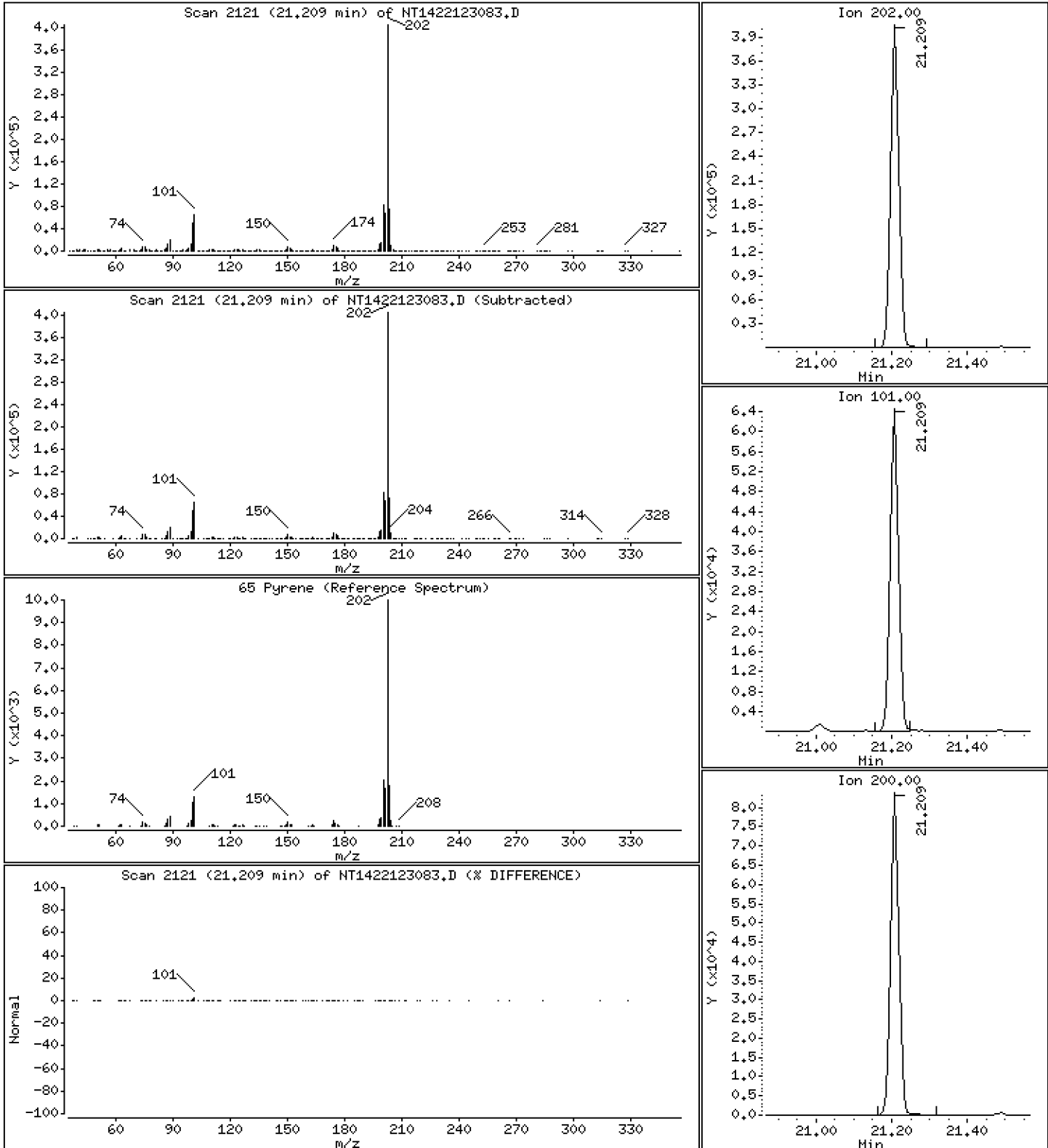
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 4,520 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

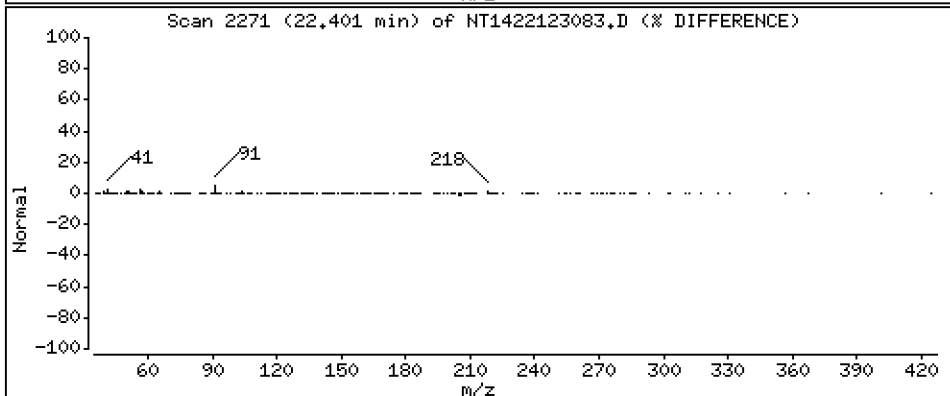
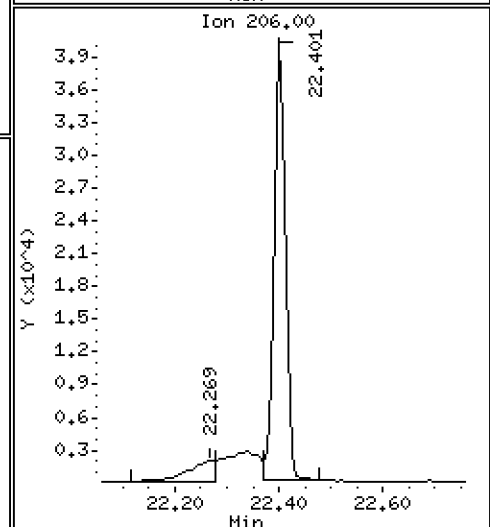
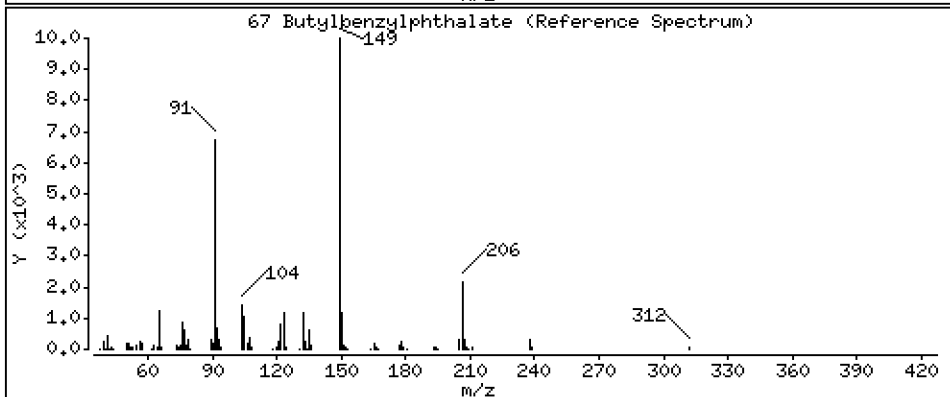
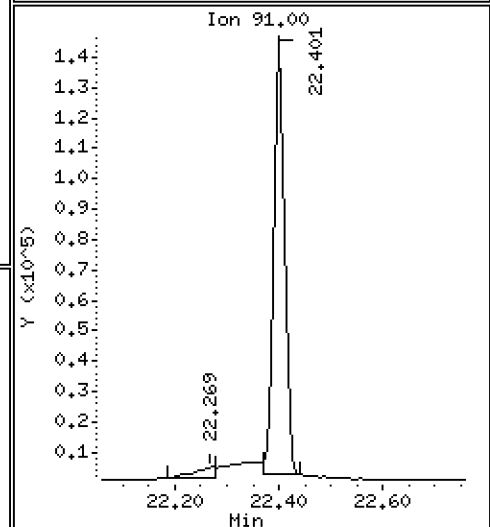
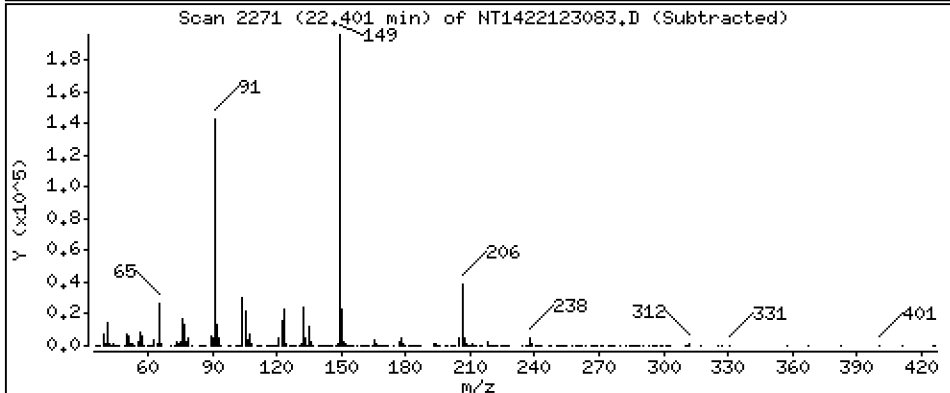
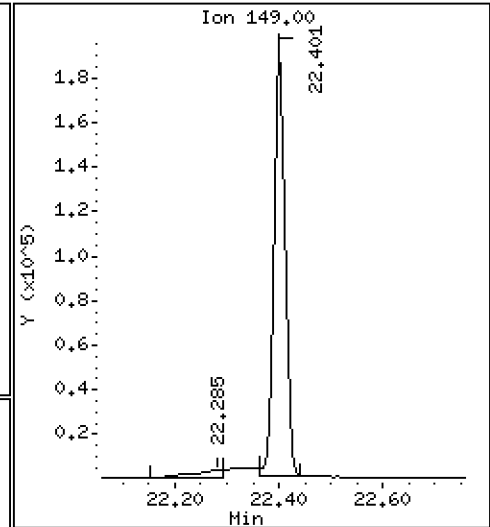
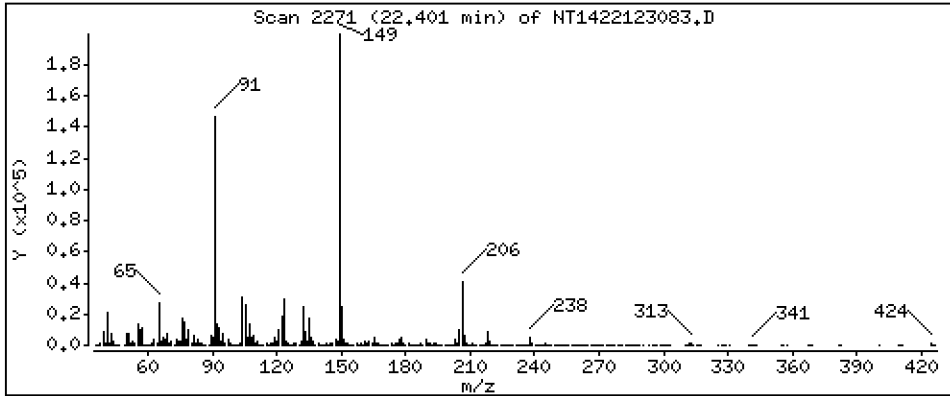
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 5,440 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

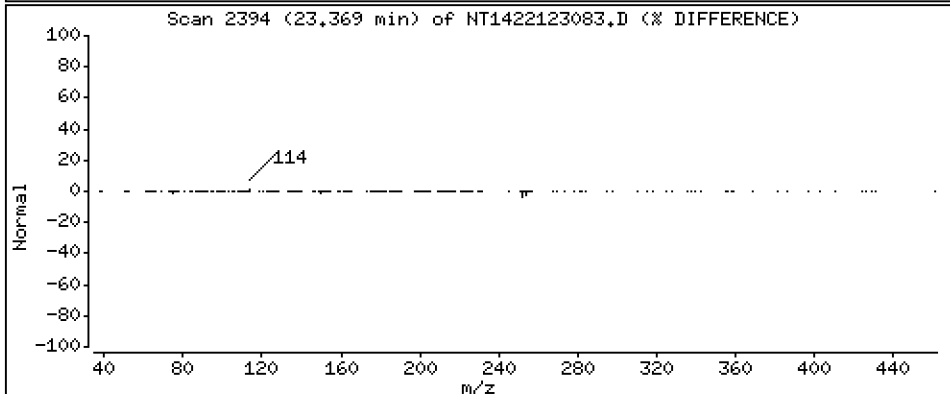
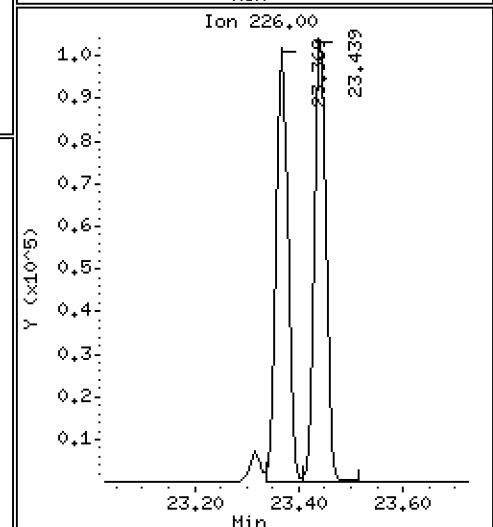
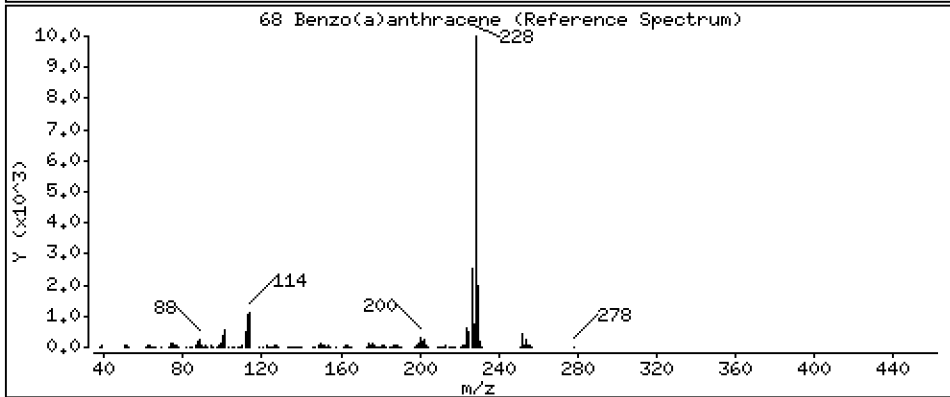
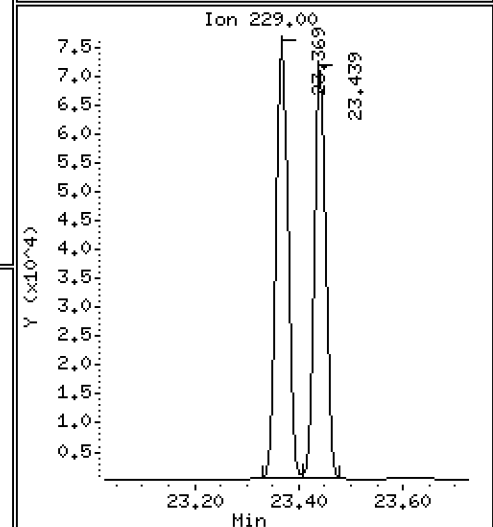
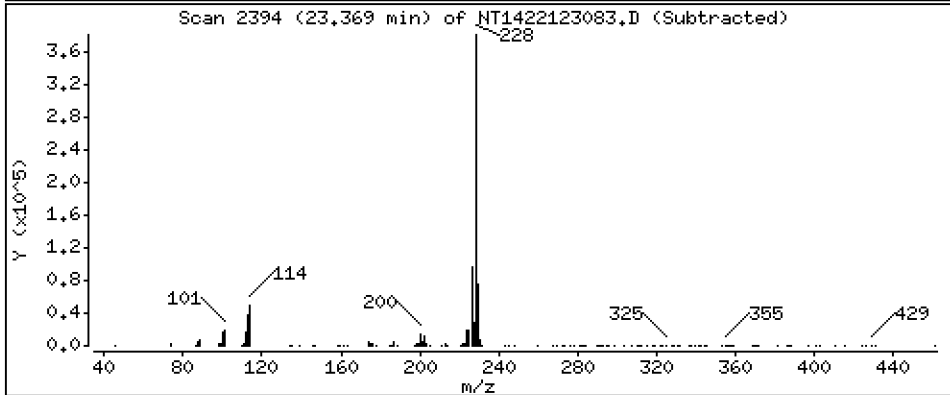
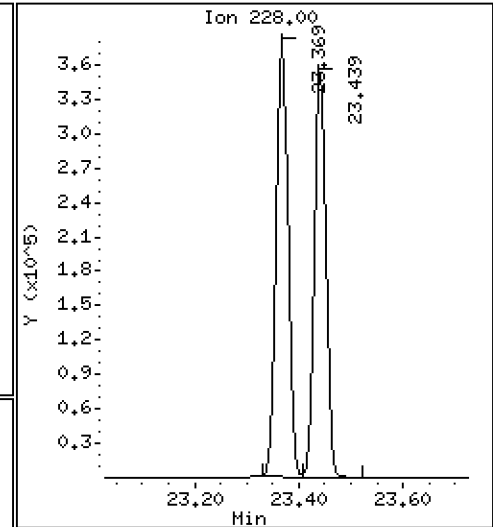
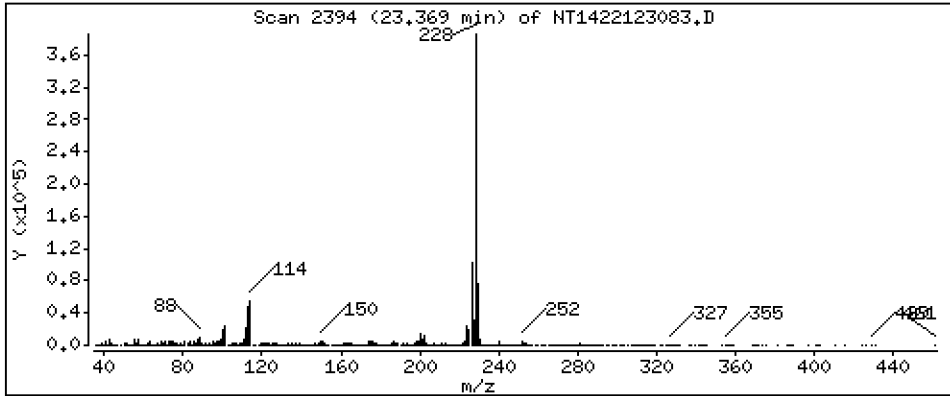
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 4,819 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

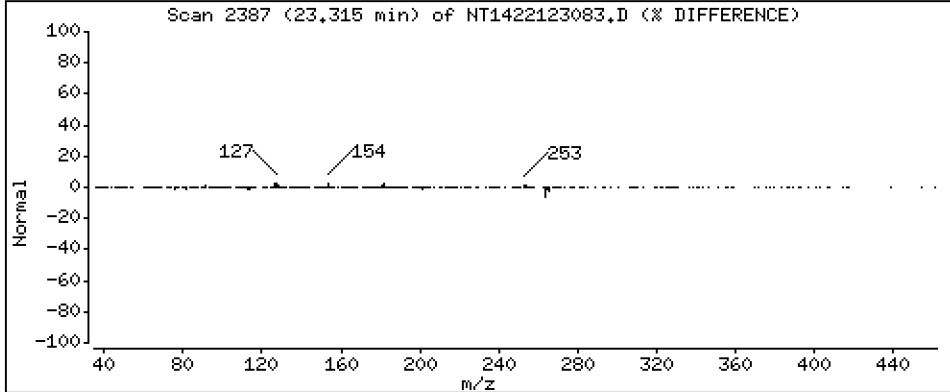
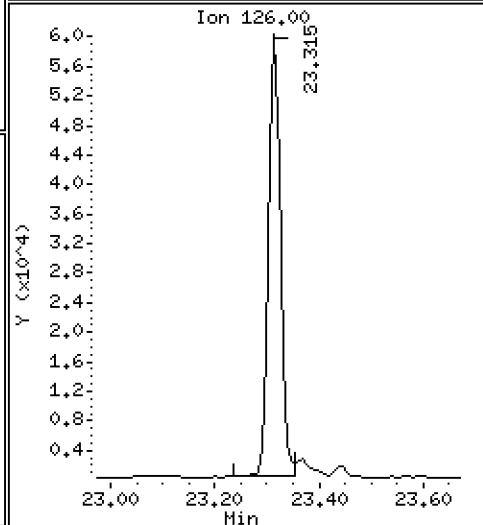
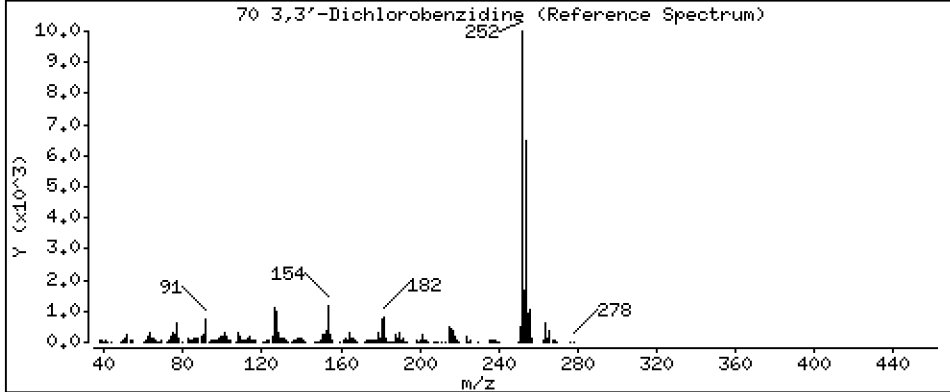
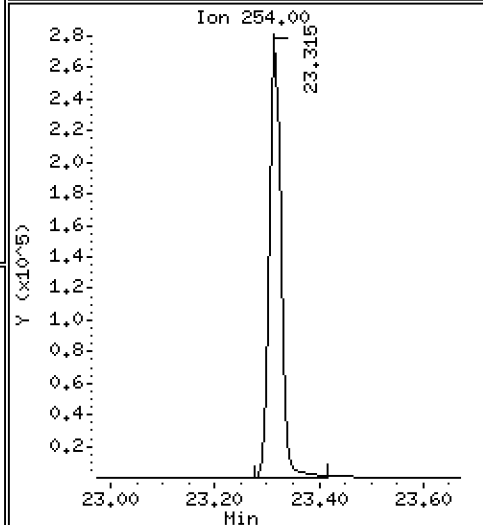
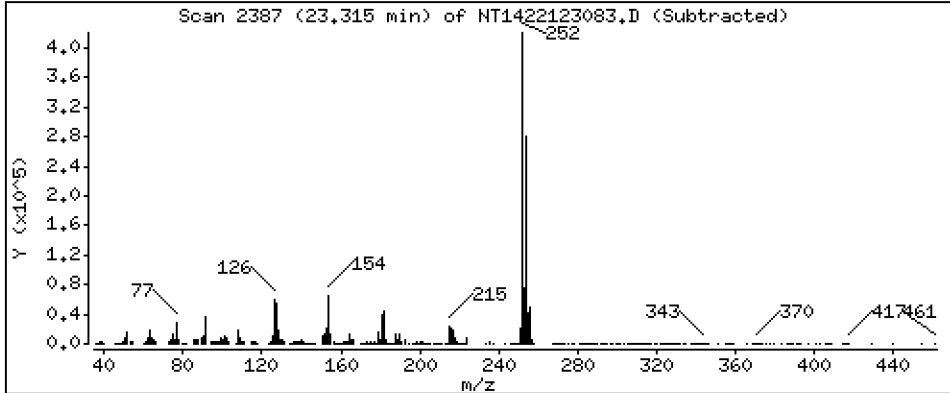
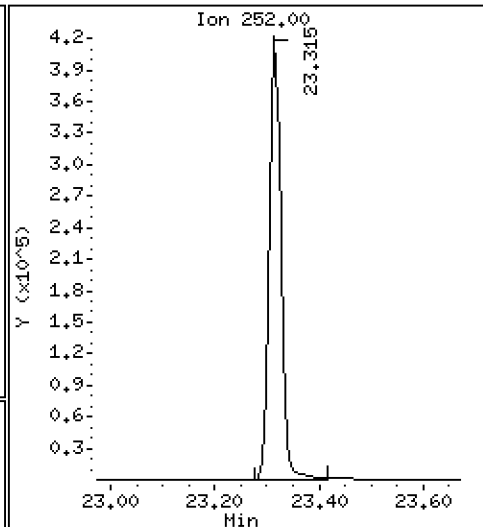
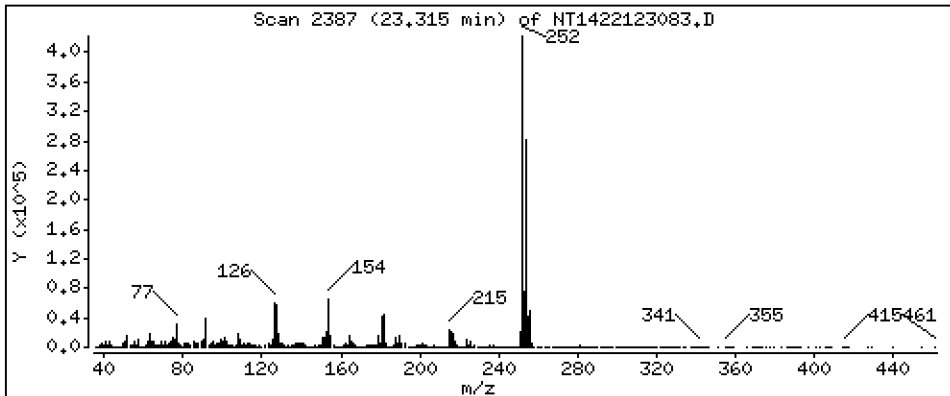
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 16,87 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

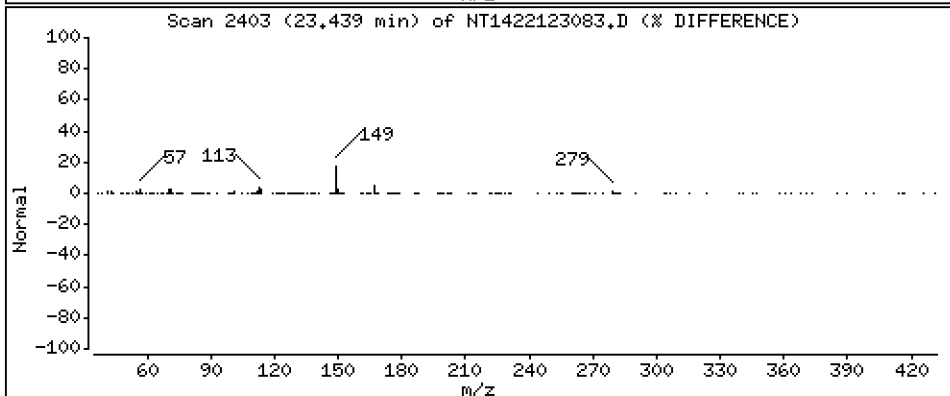
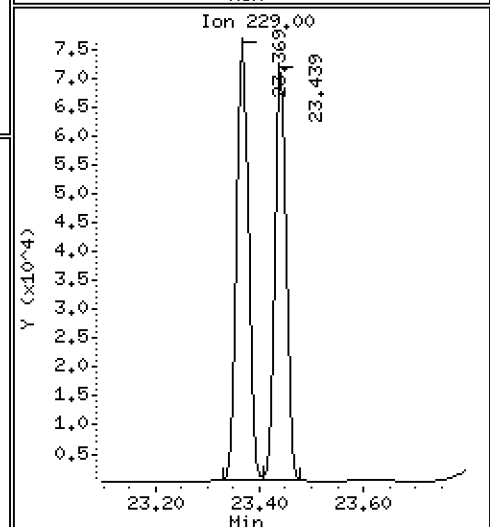
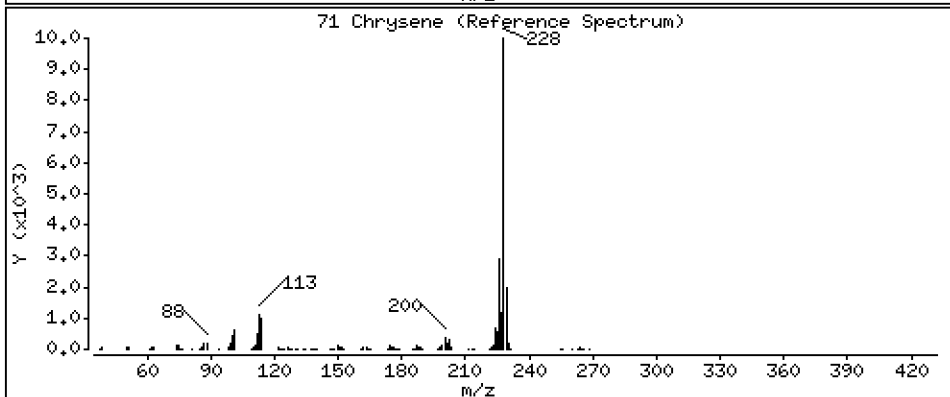
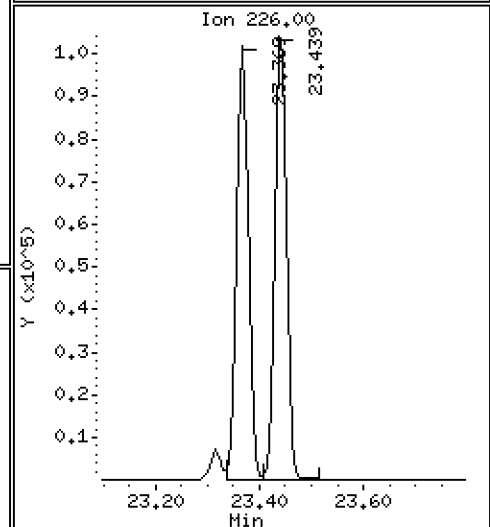
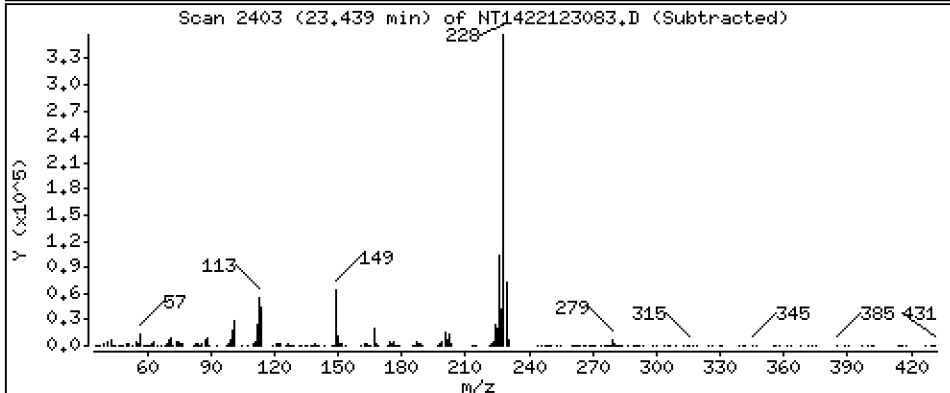
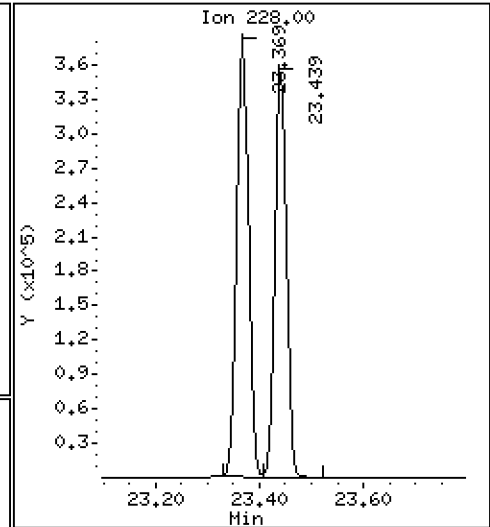
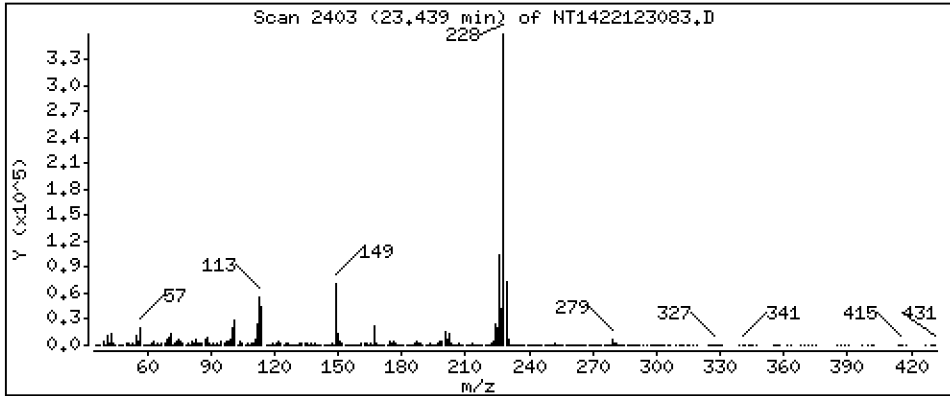
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 4,720 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

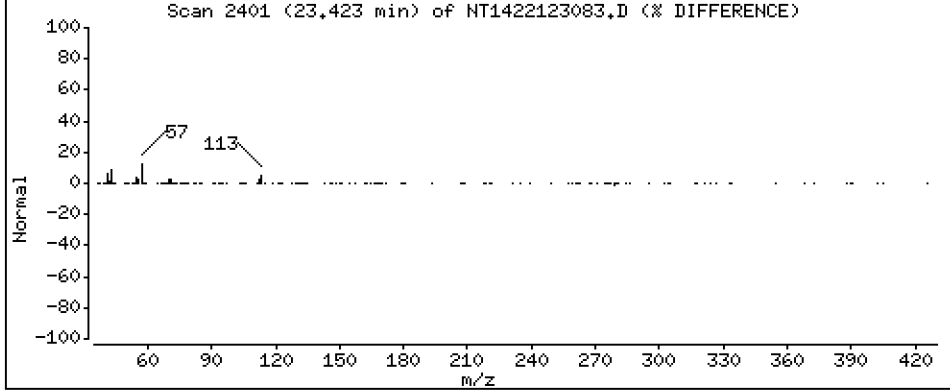
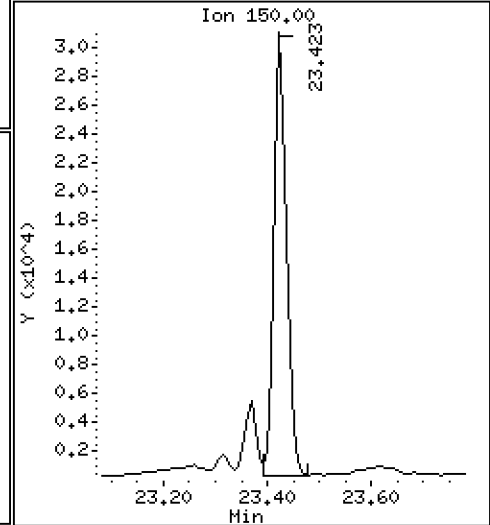
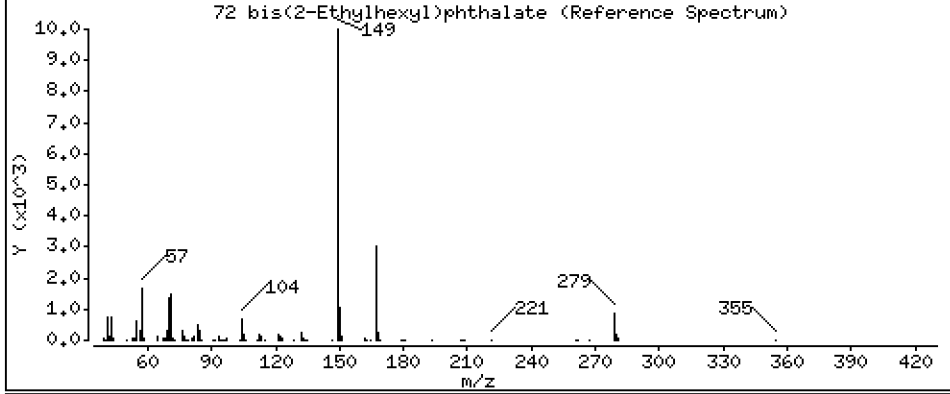
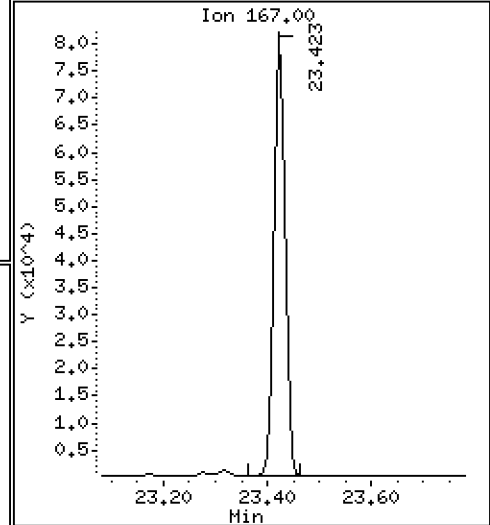
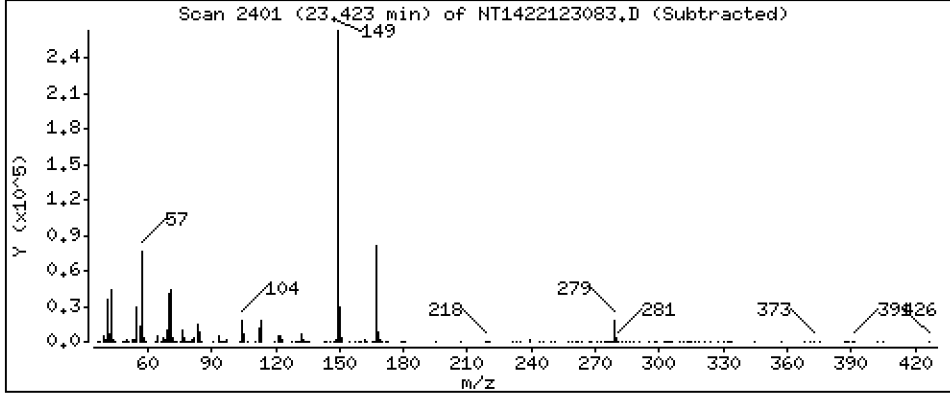
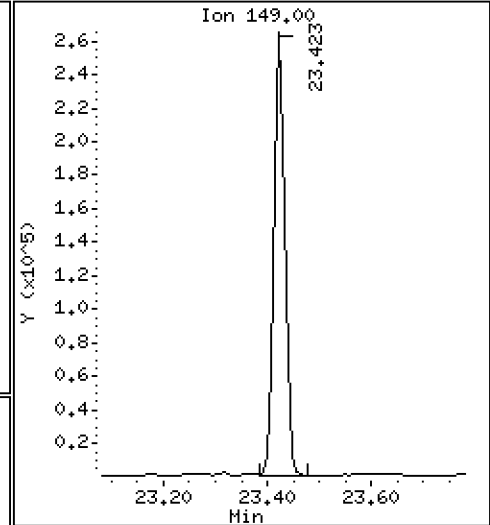
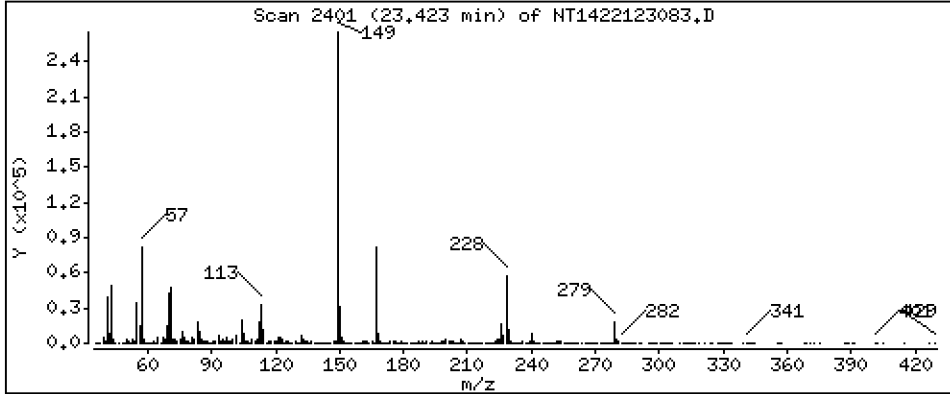
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 4,870 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

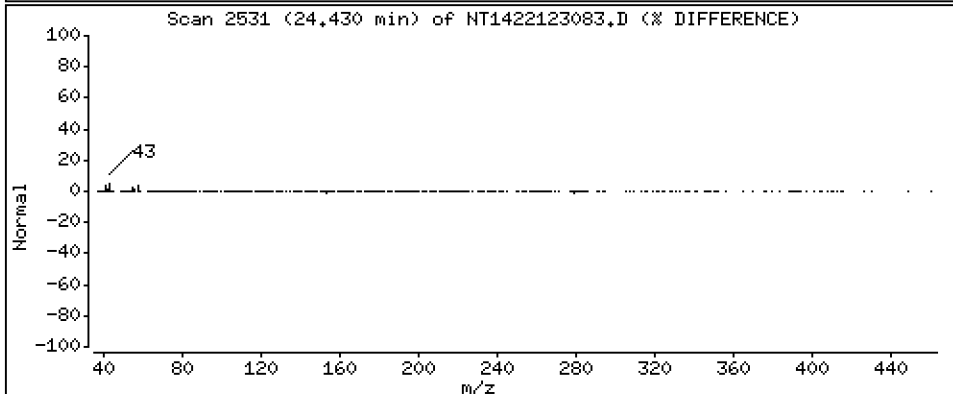
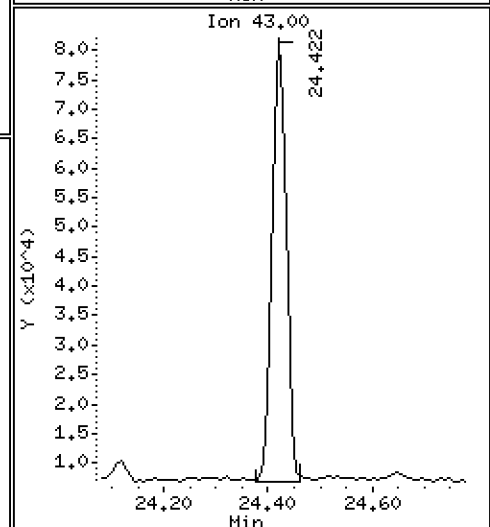
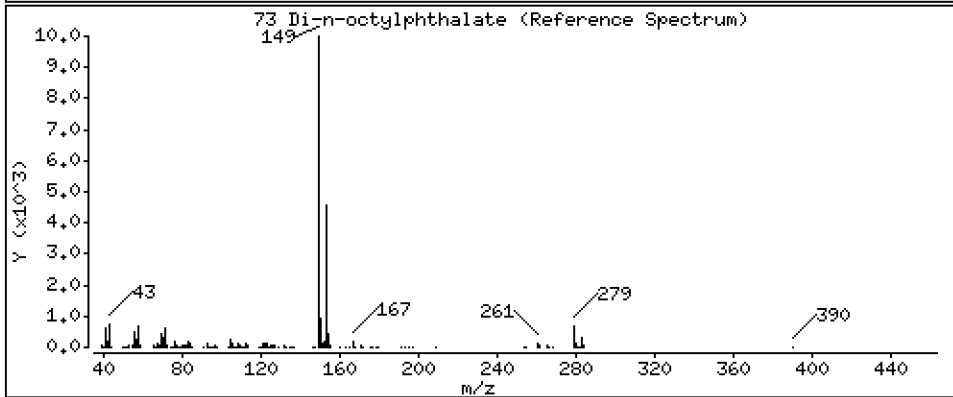
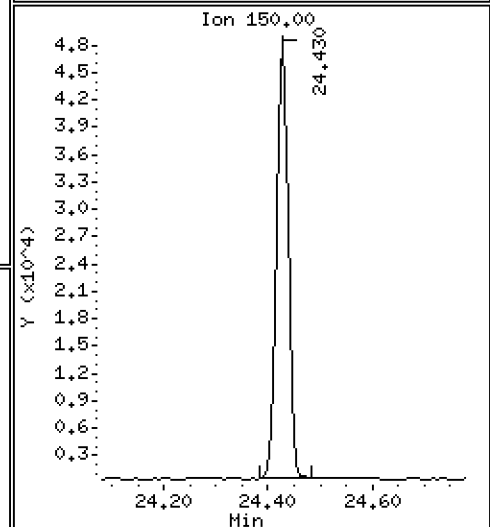
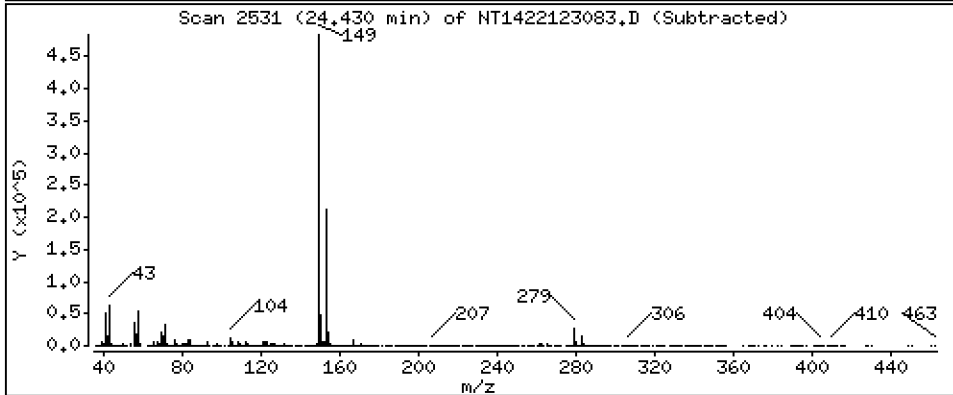
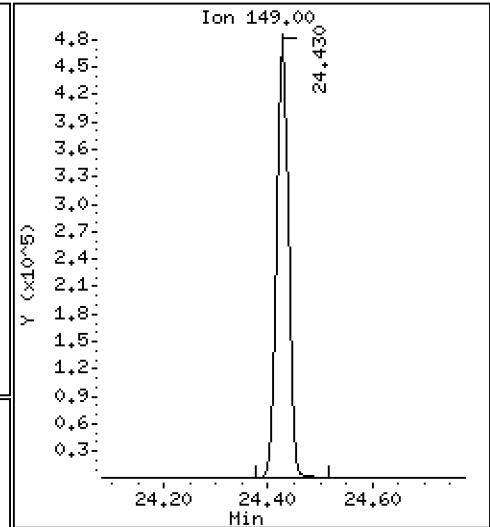
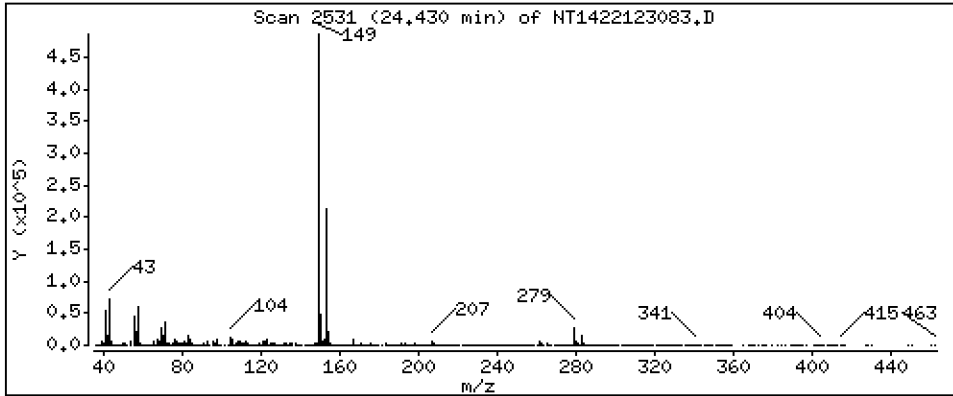
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 4,294 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

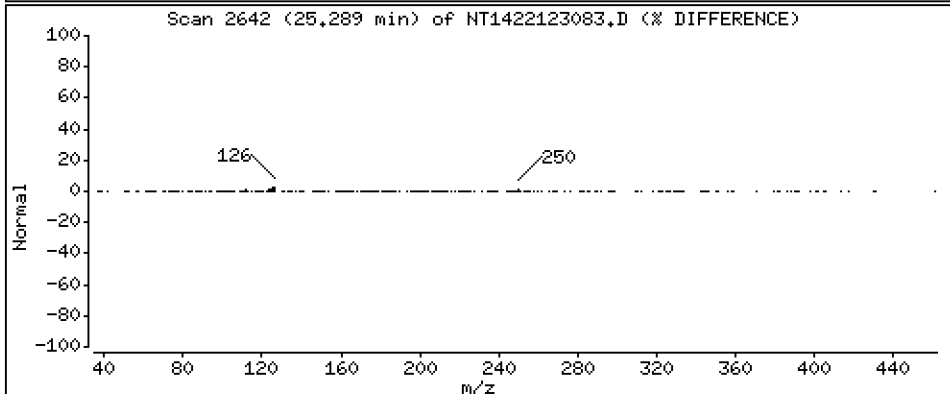
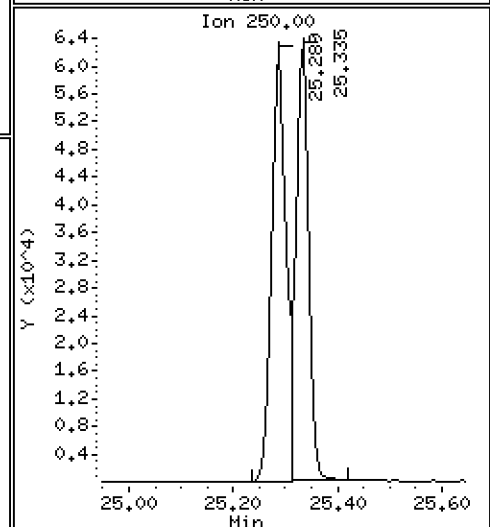
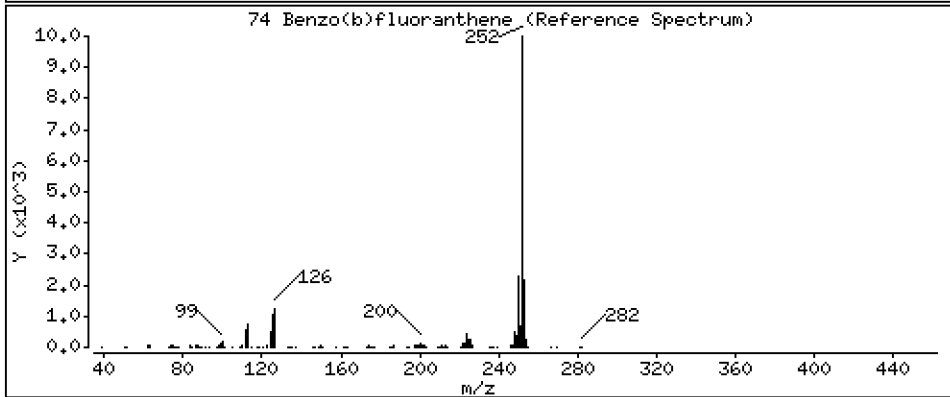
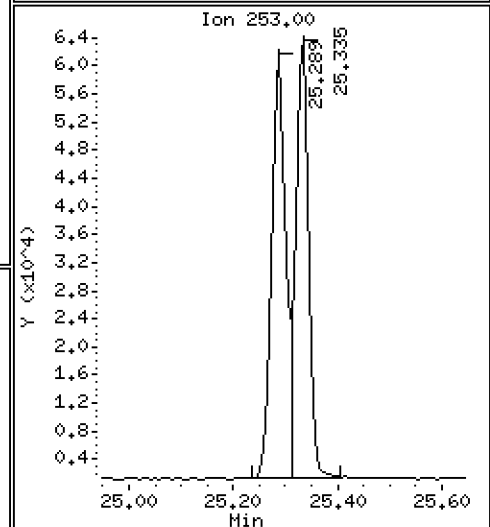
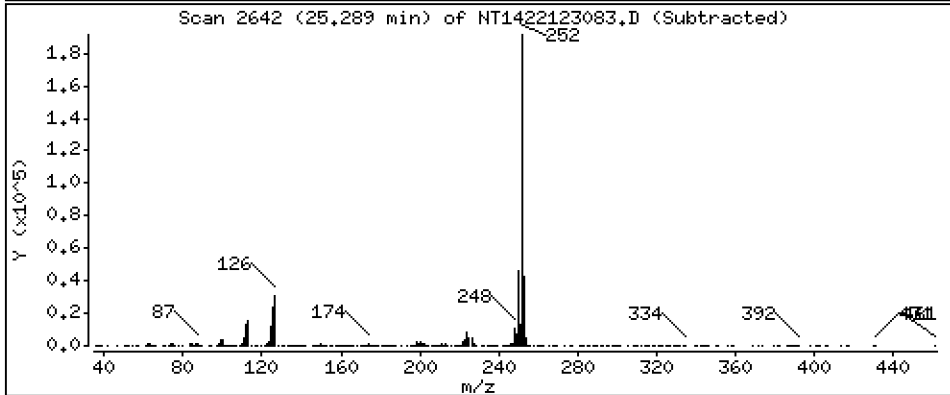
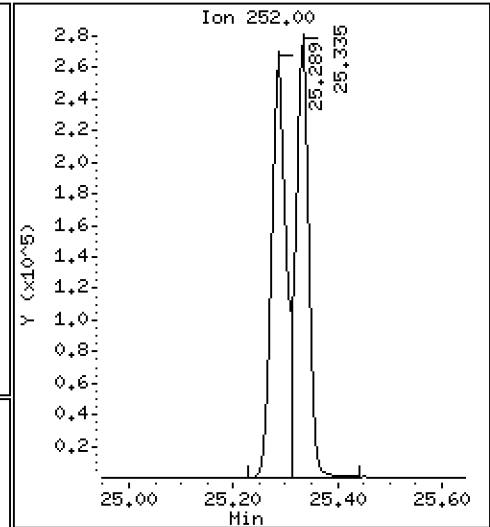
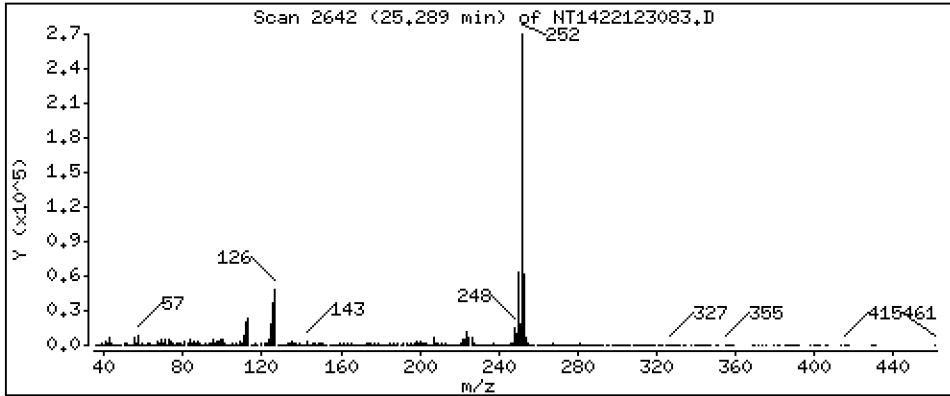
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 5,553 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

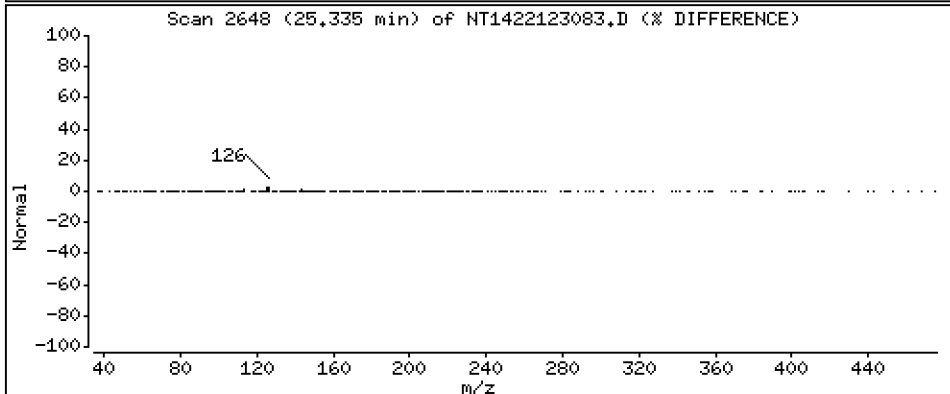
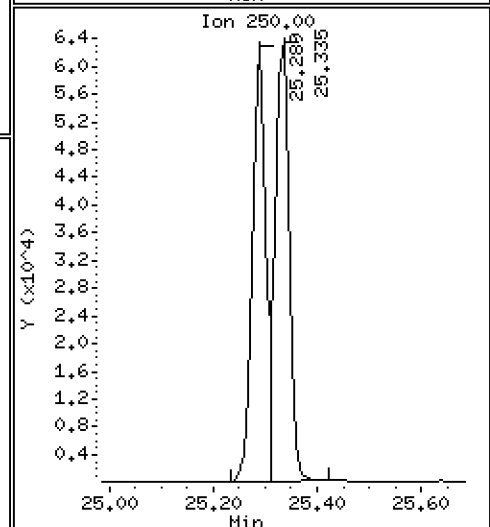
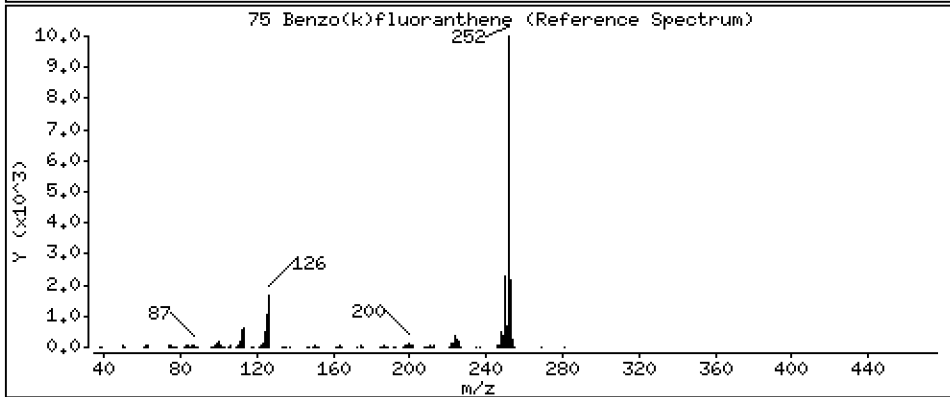
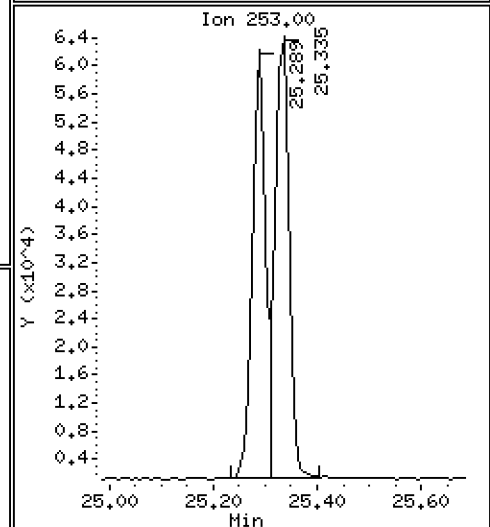
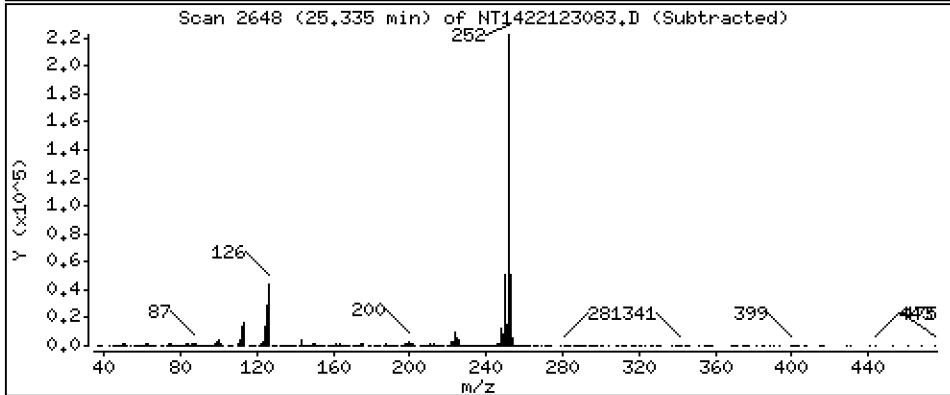
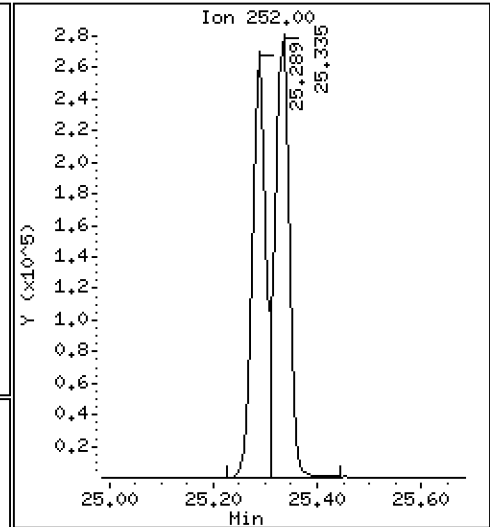
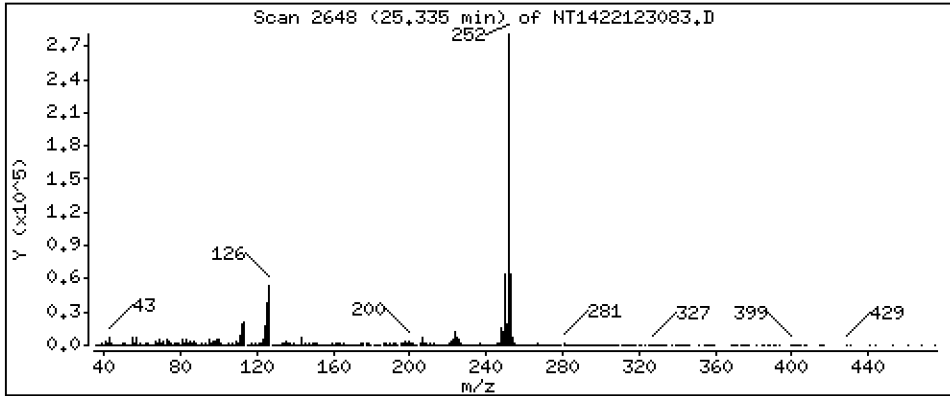
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 5,349 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

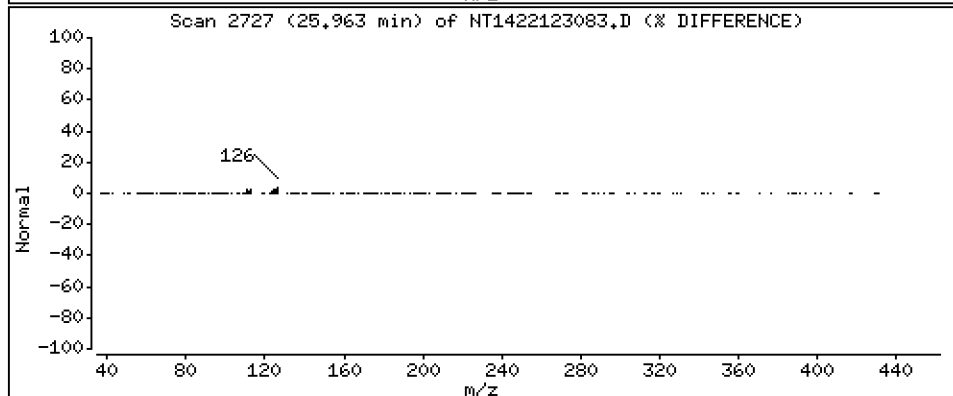
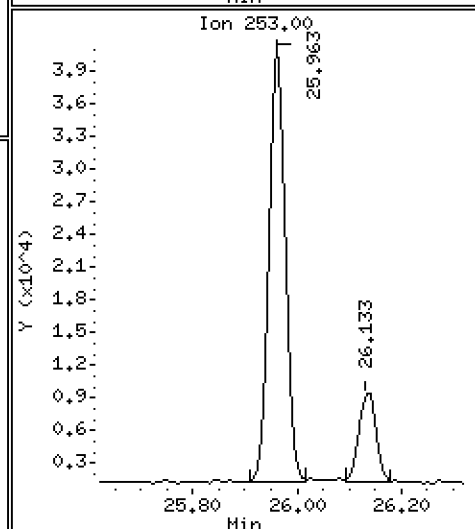
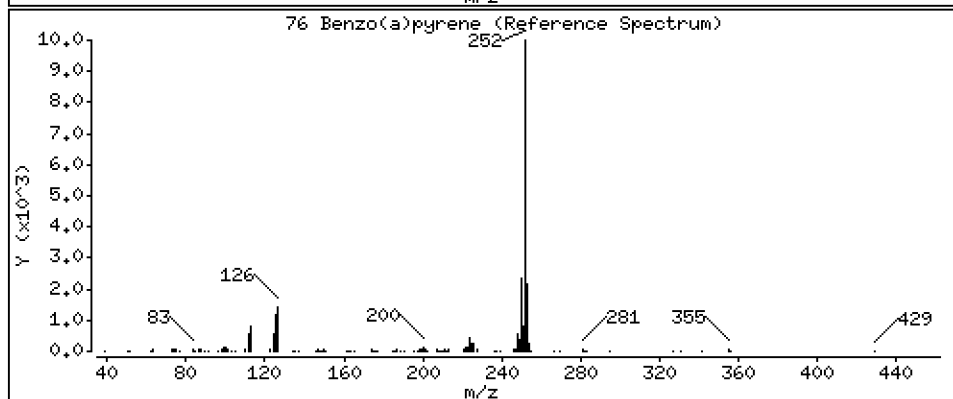
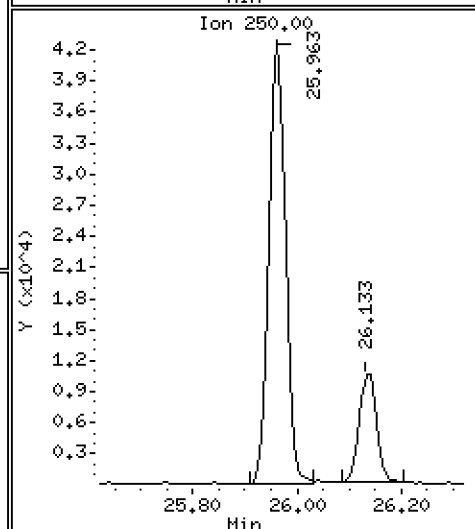
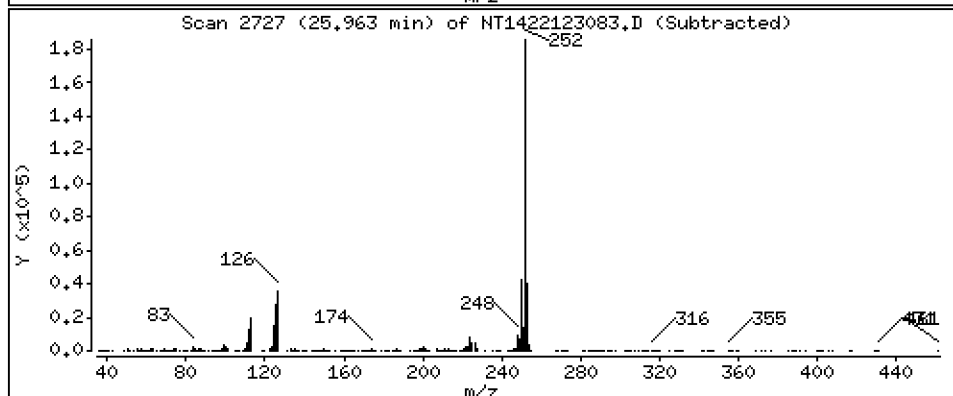
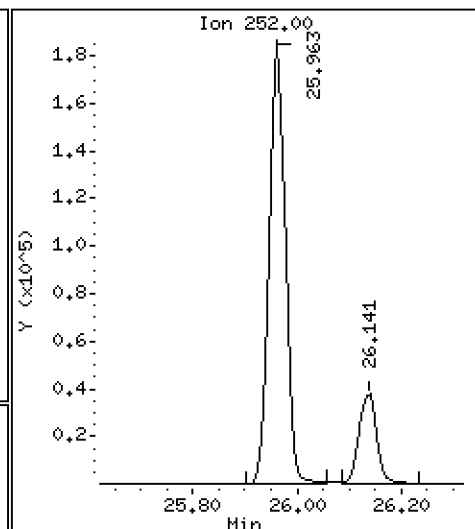
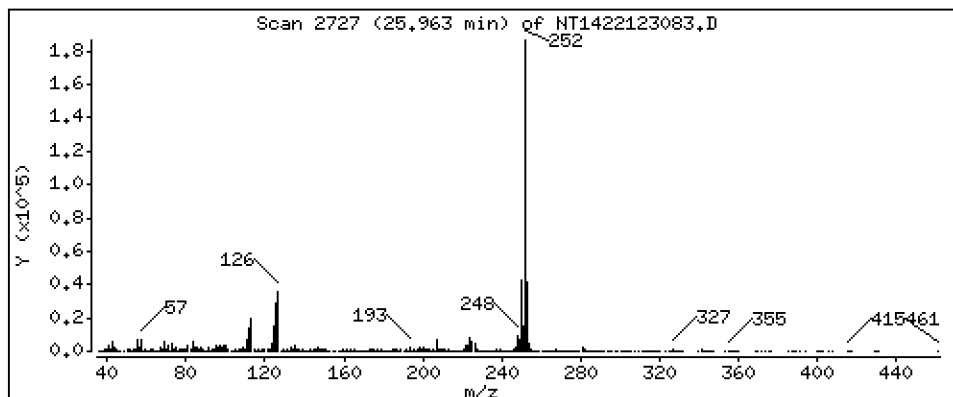
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 5,014 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

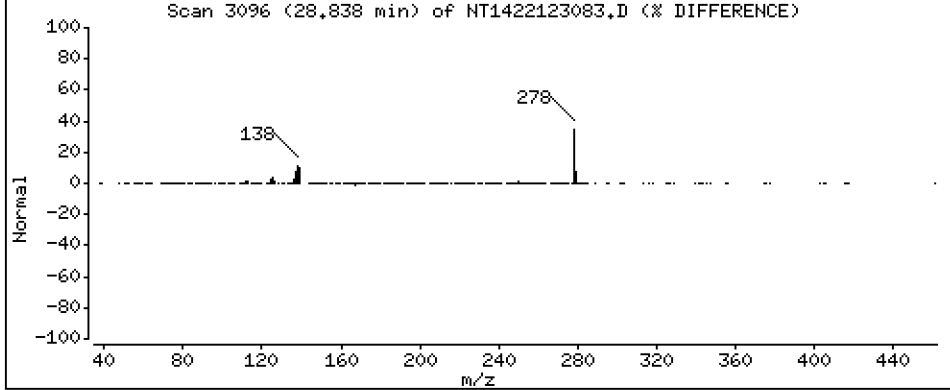
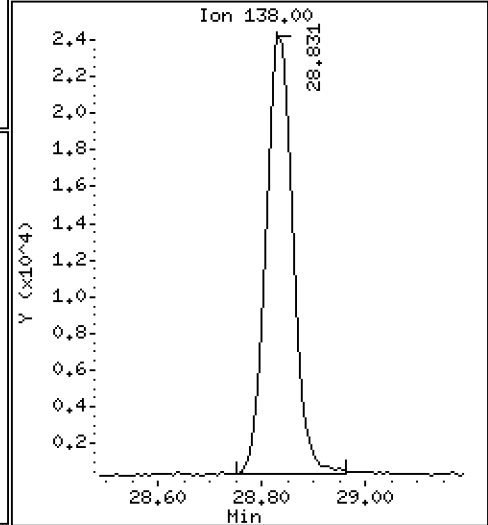
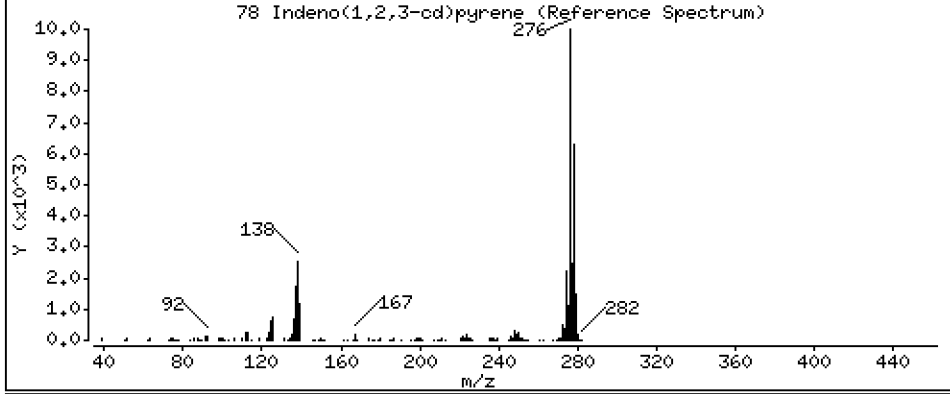
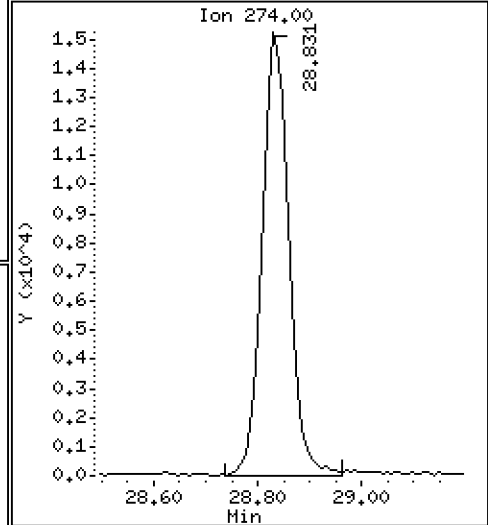
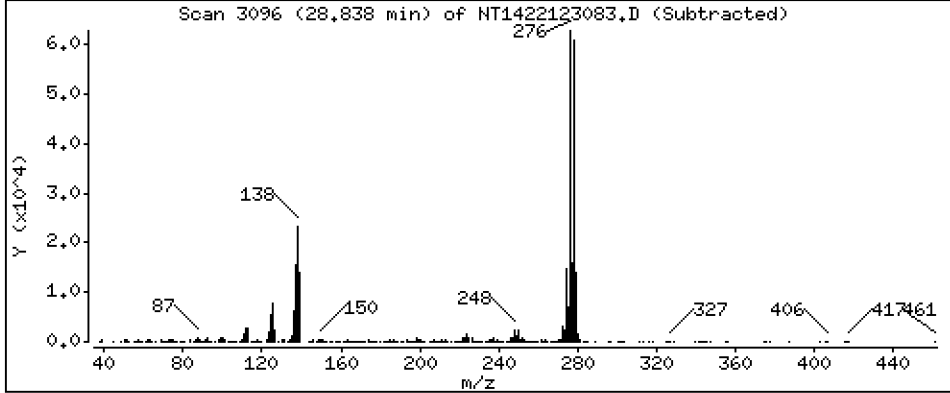
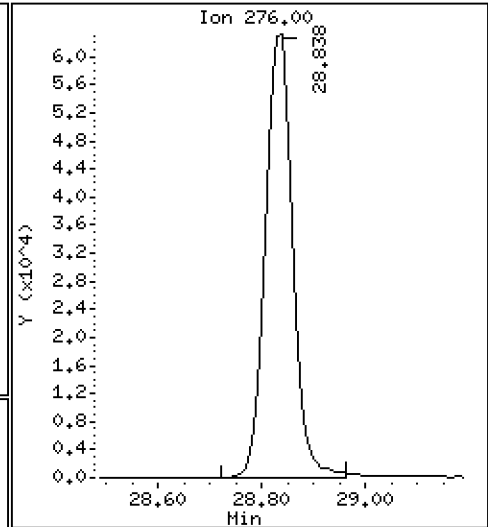
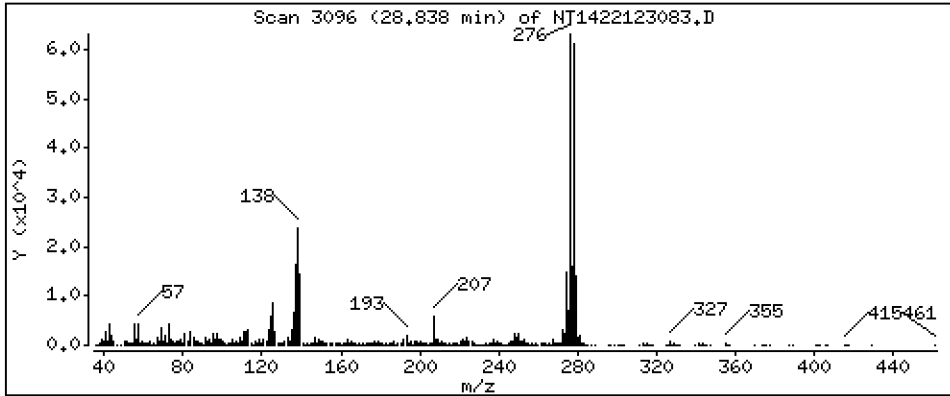
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 2,570 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

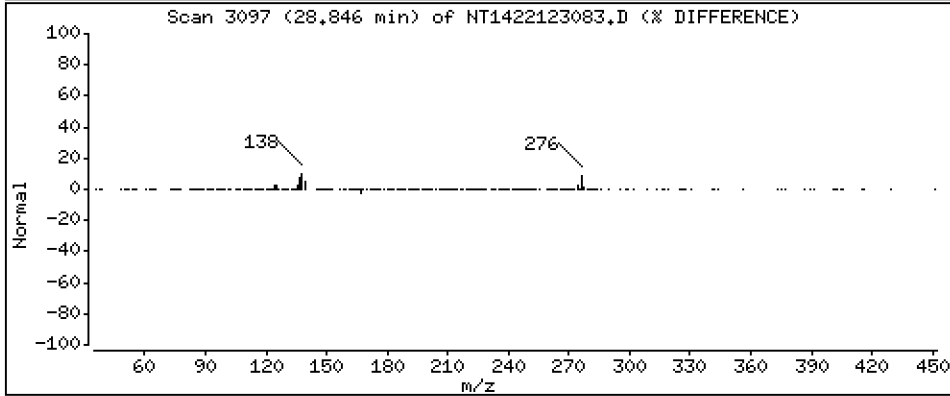
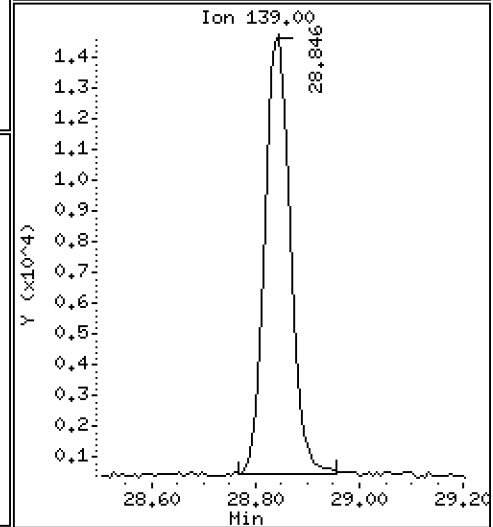
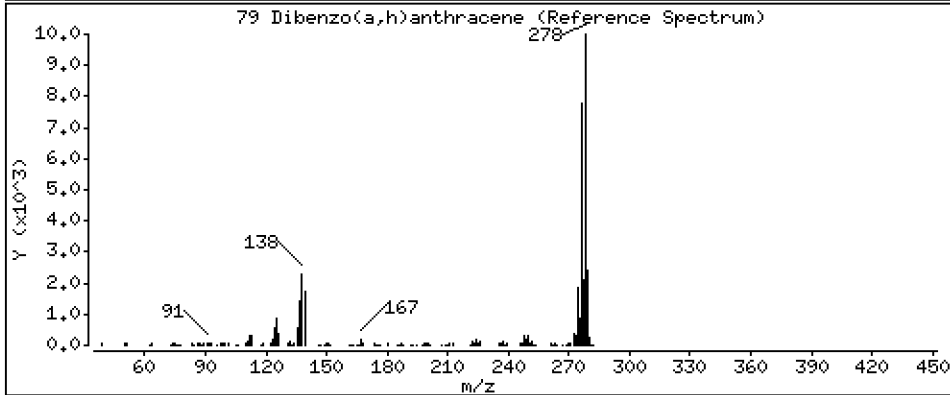
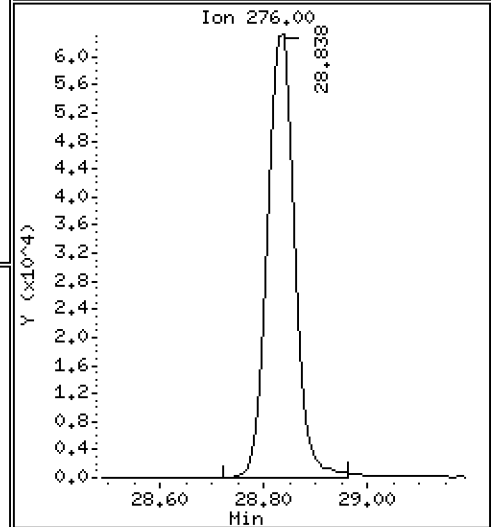
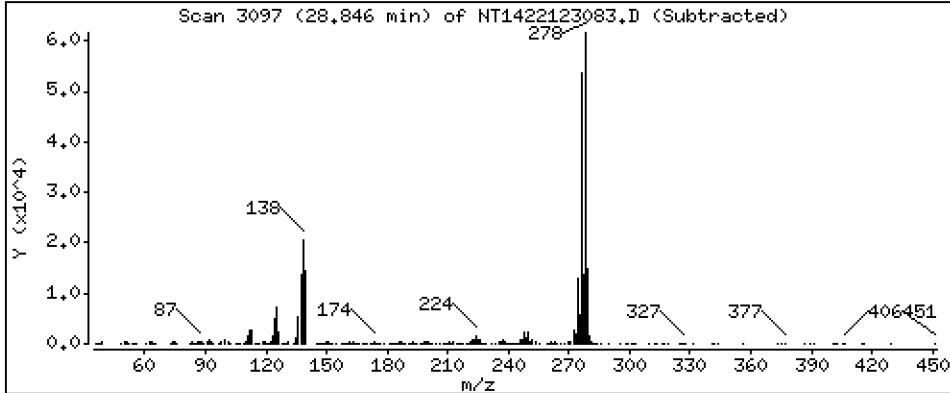
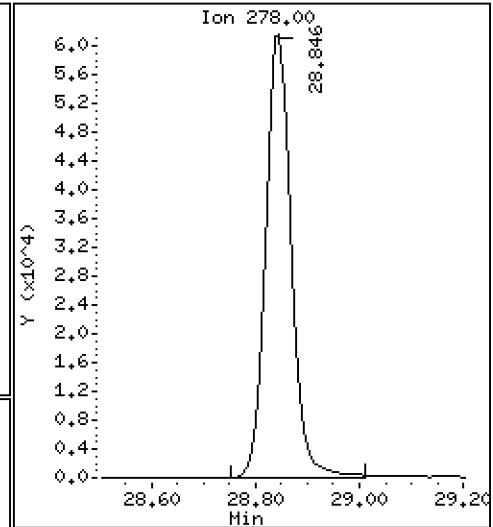
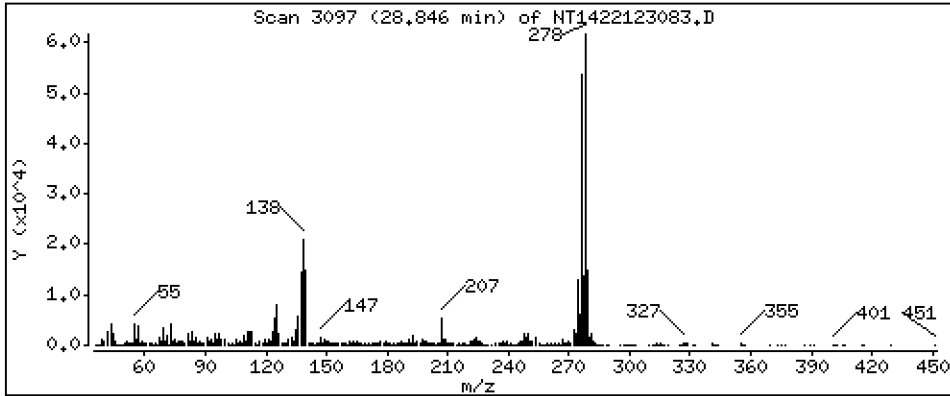
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 2,747 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

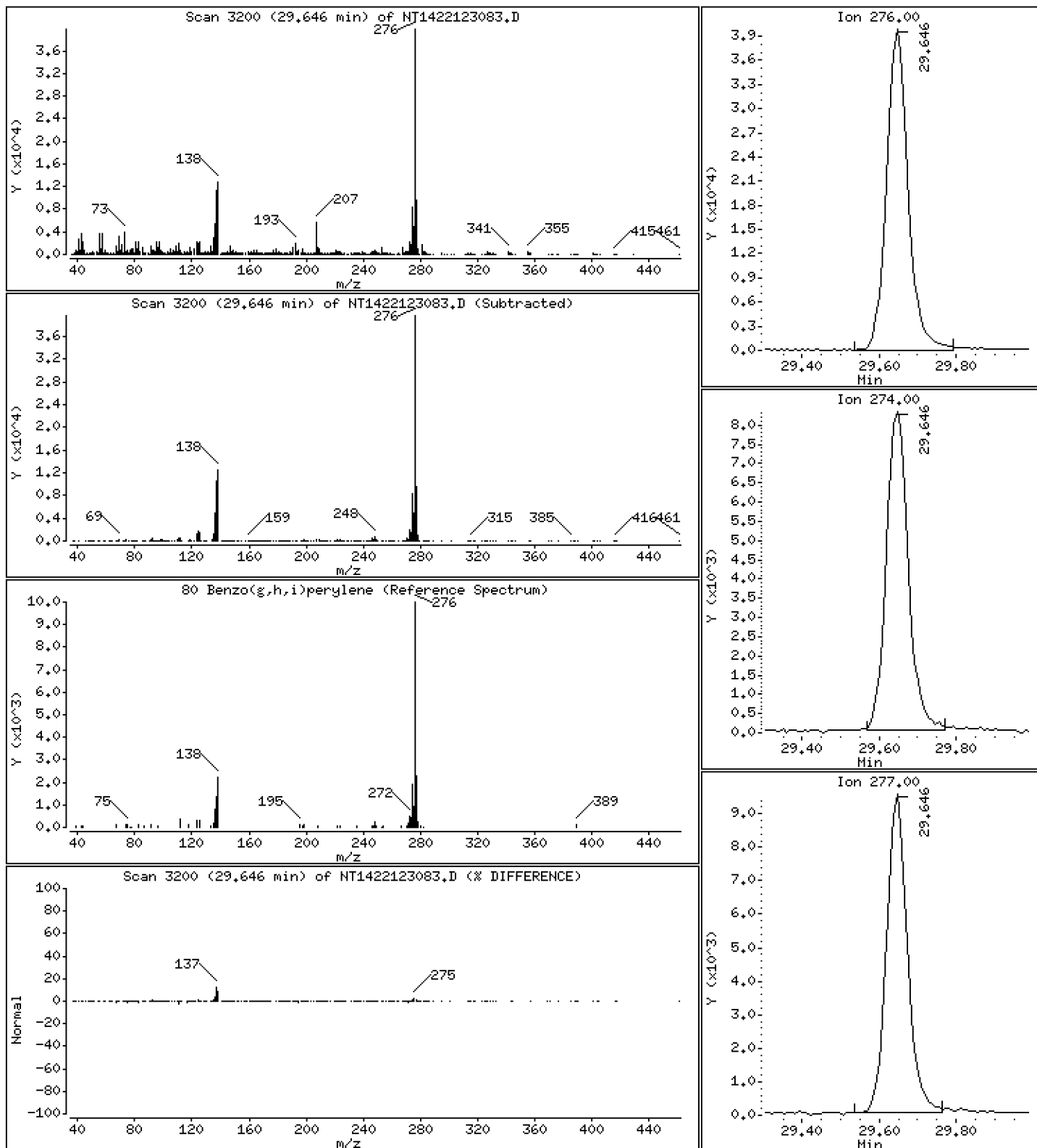
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 2,081 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

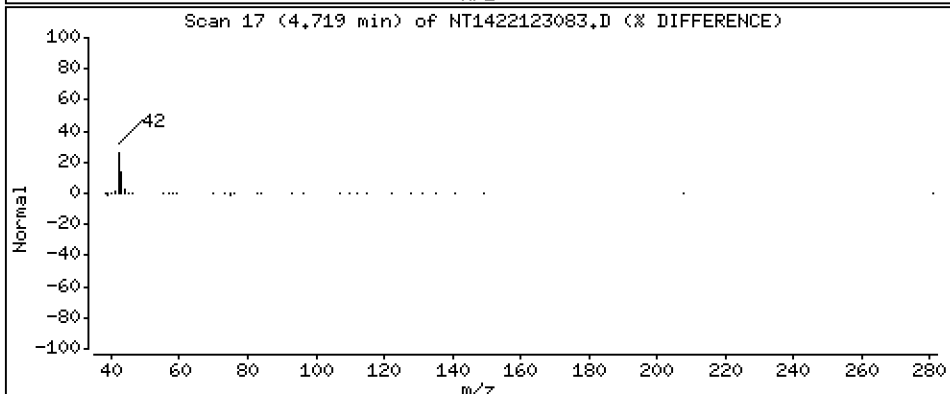
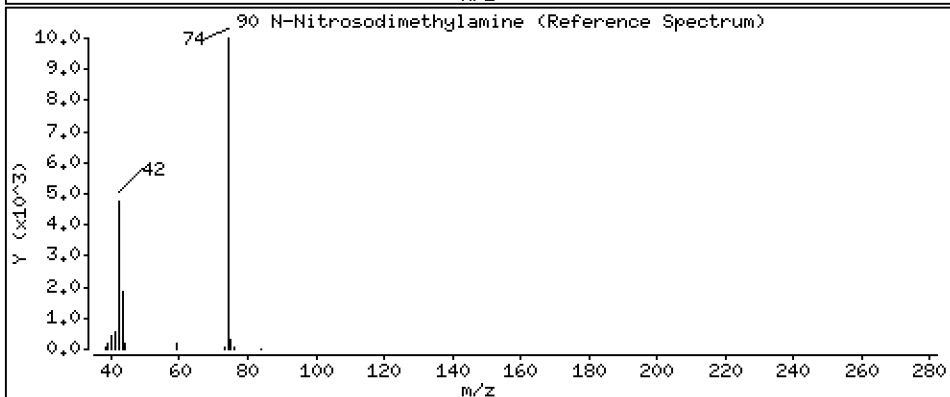
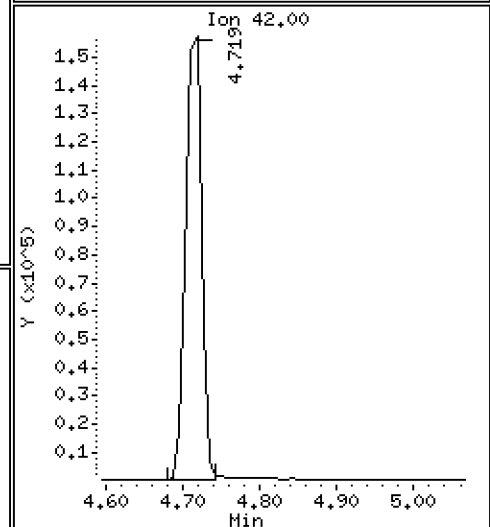
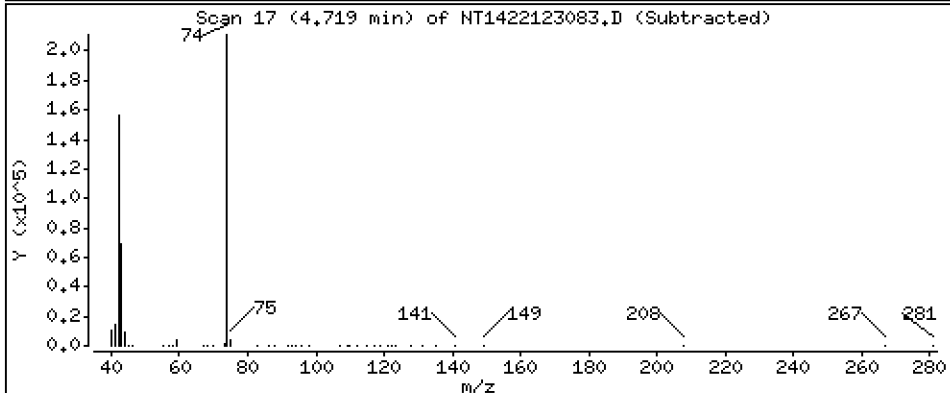
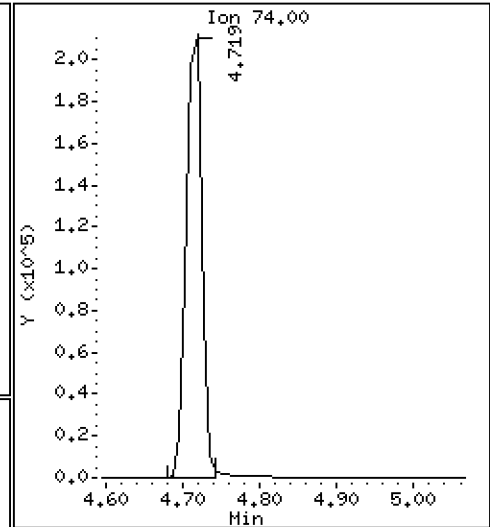
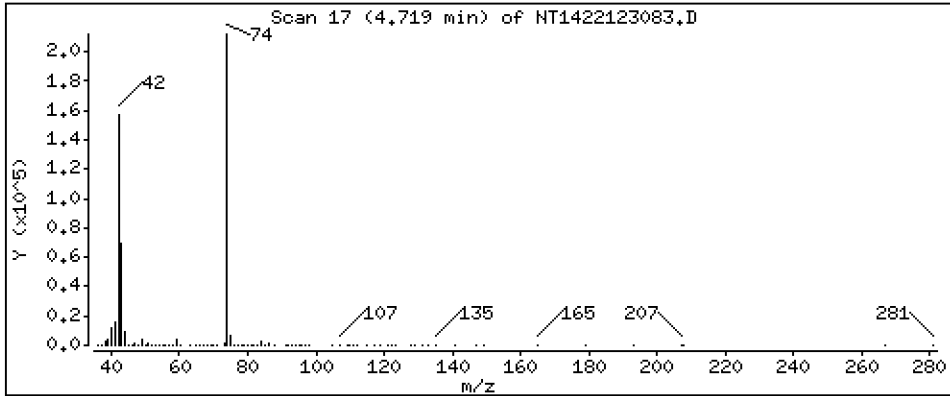
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 9,625 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

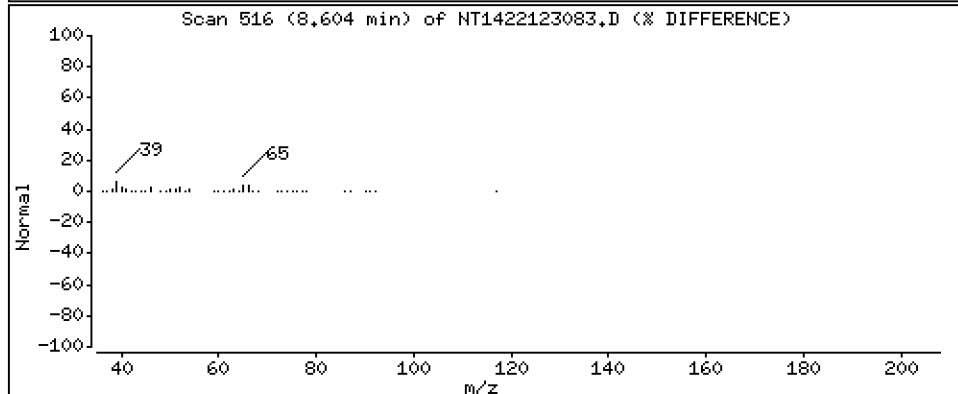
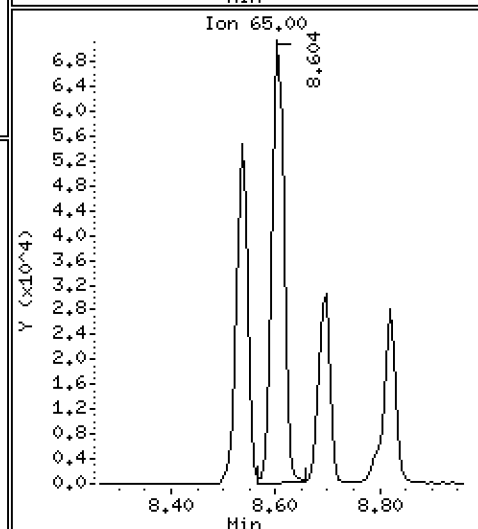
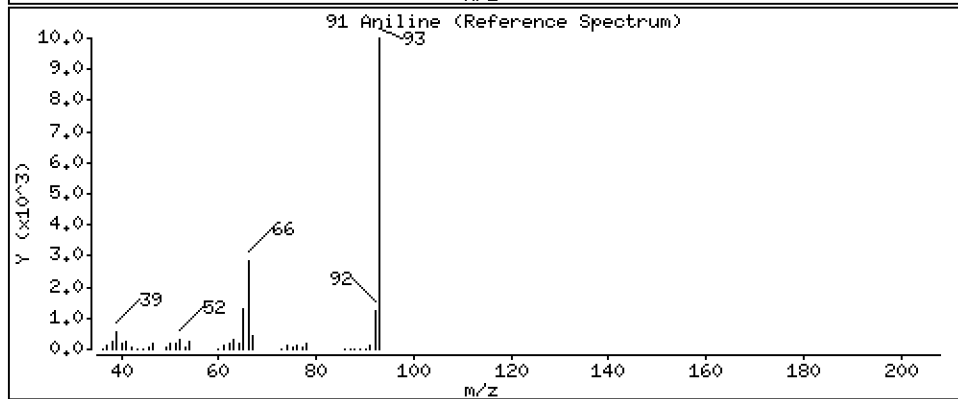
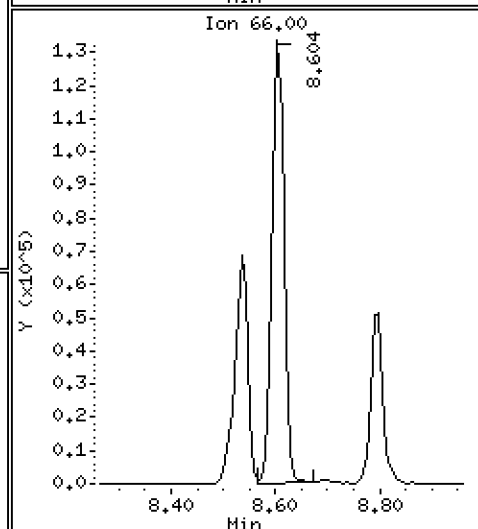
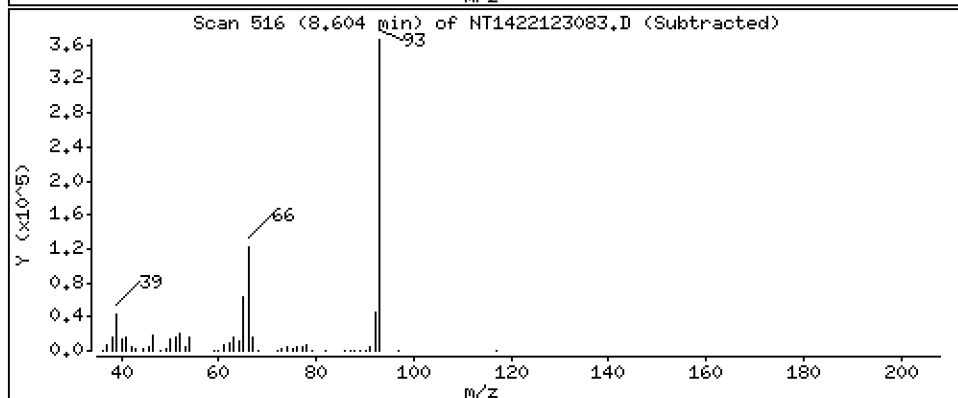
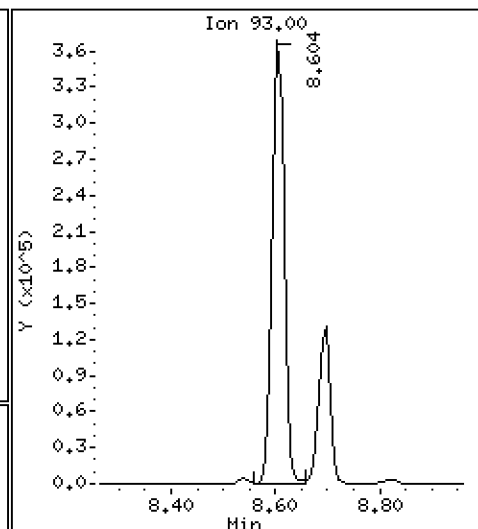
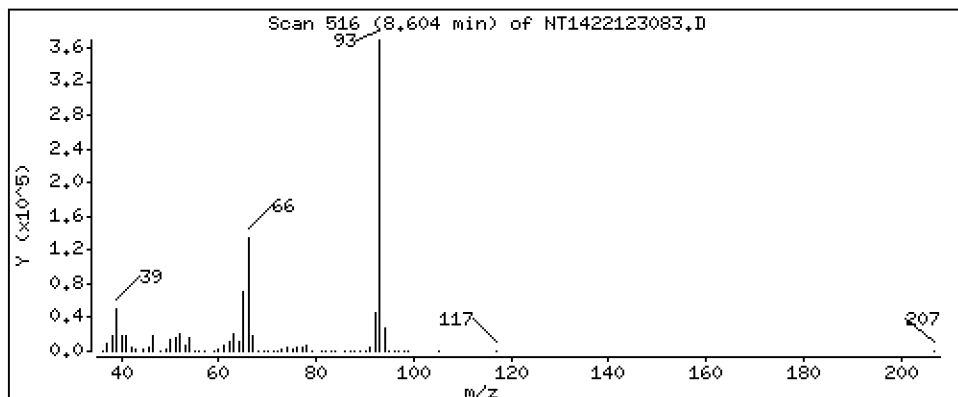
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 9.483 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

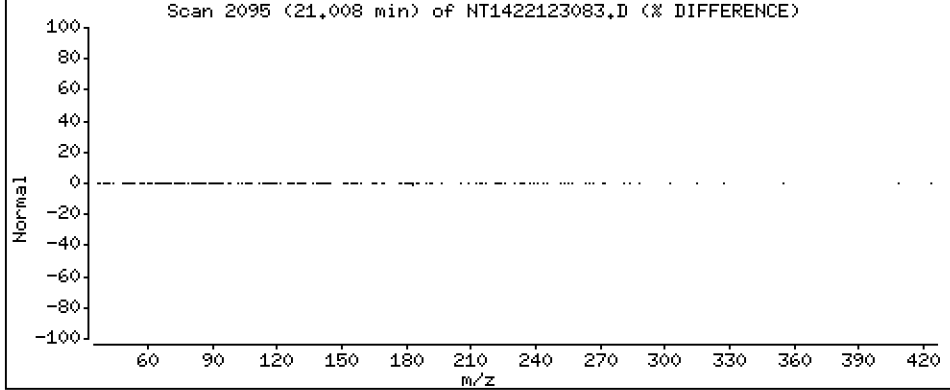
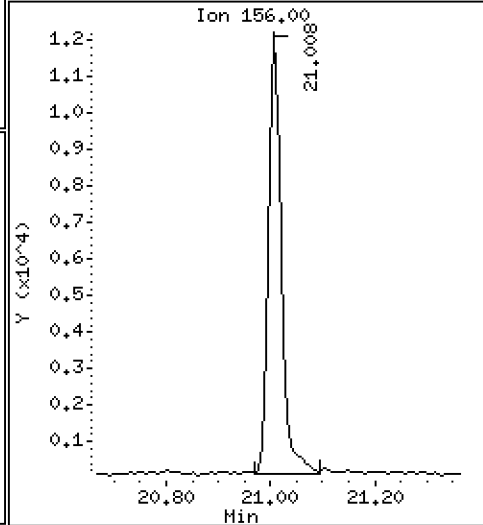
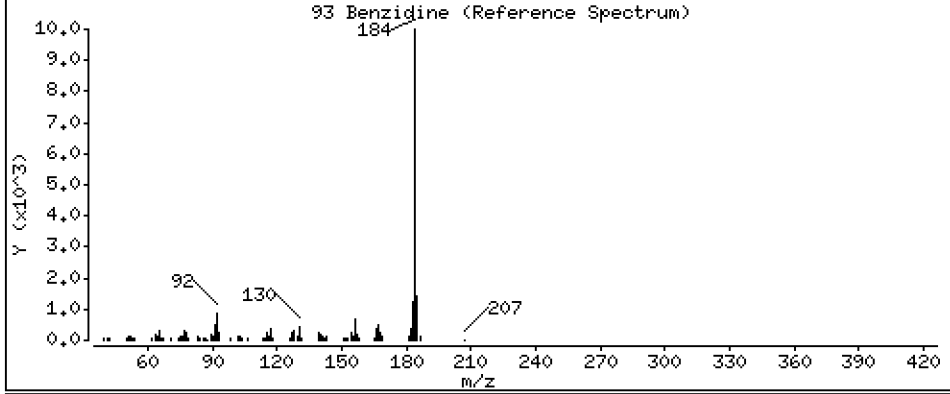
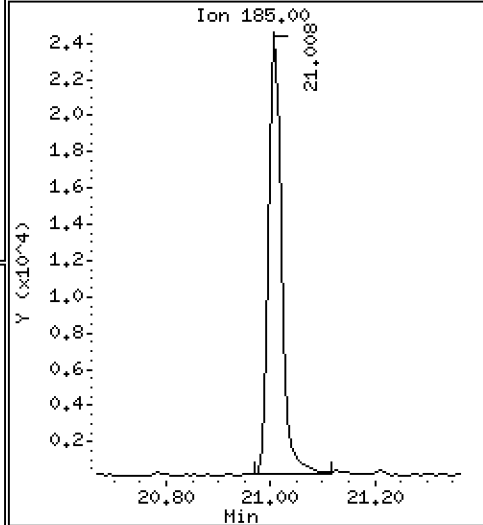
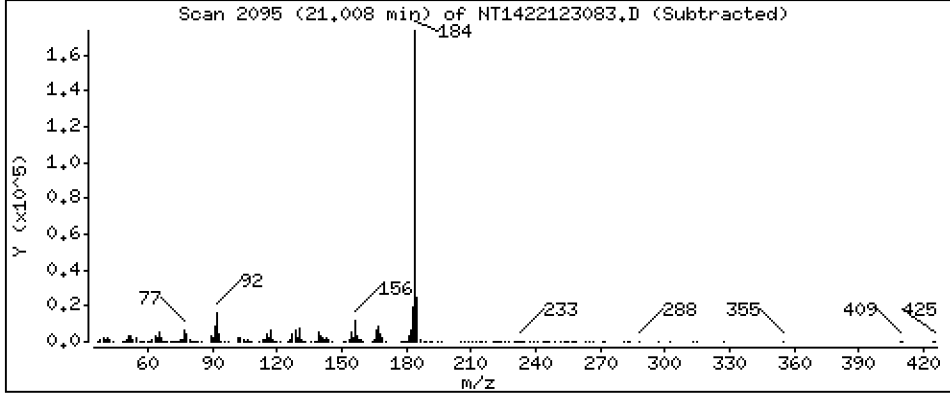
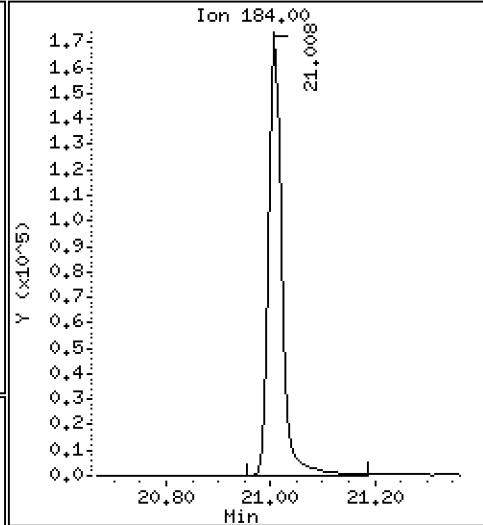
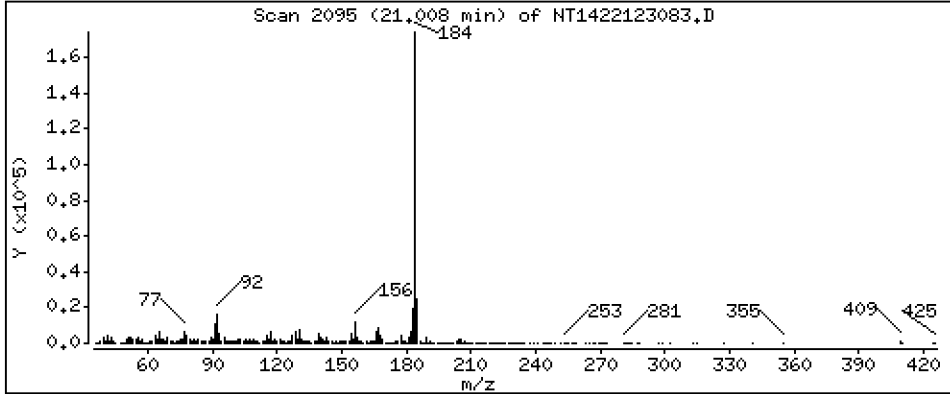
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 5,898 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

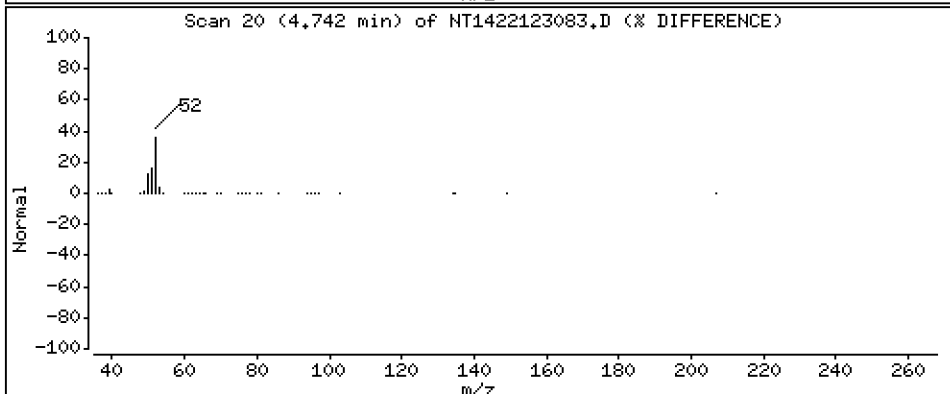
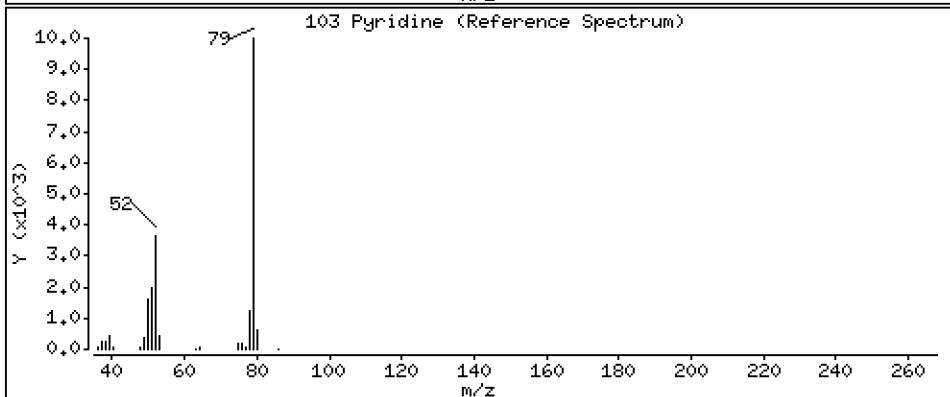
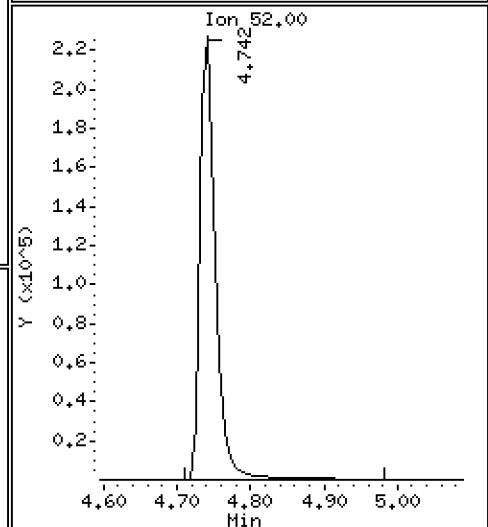
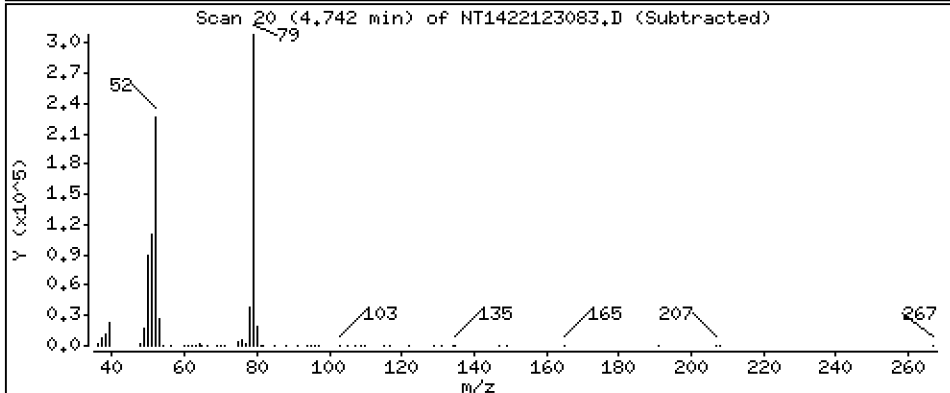
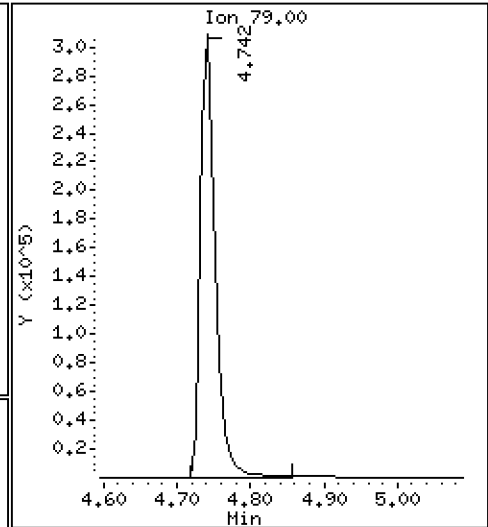
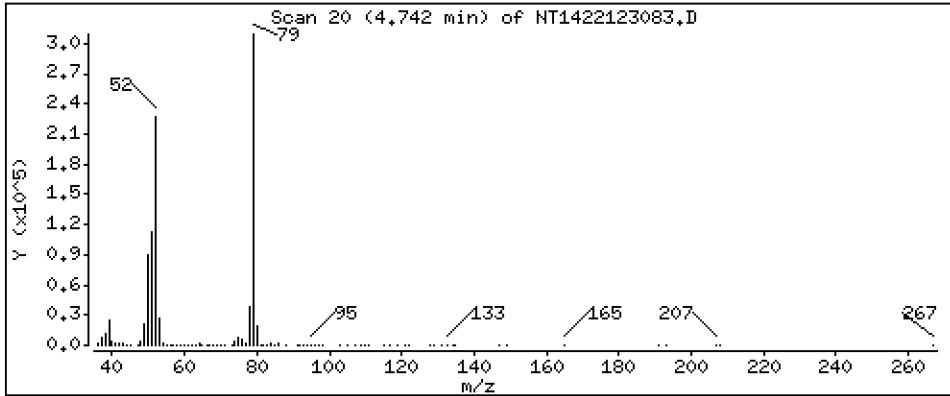
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 4,600 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

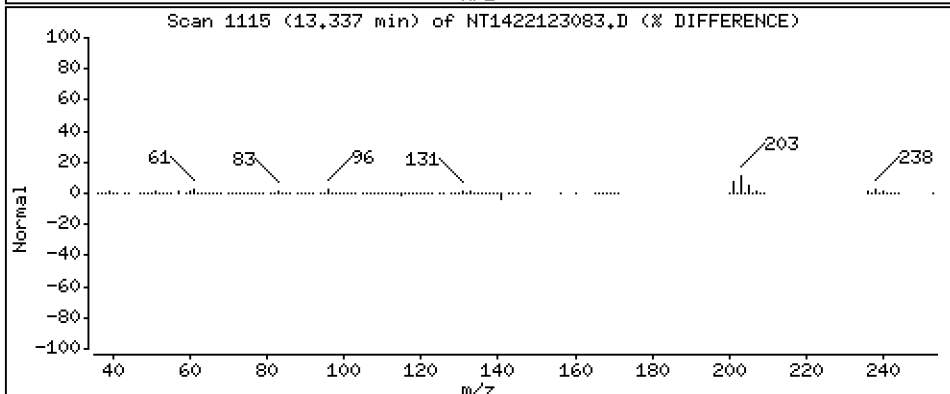
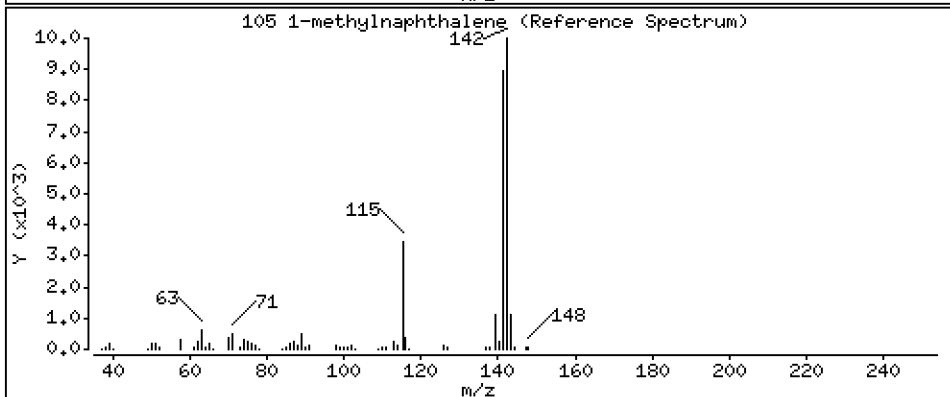
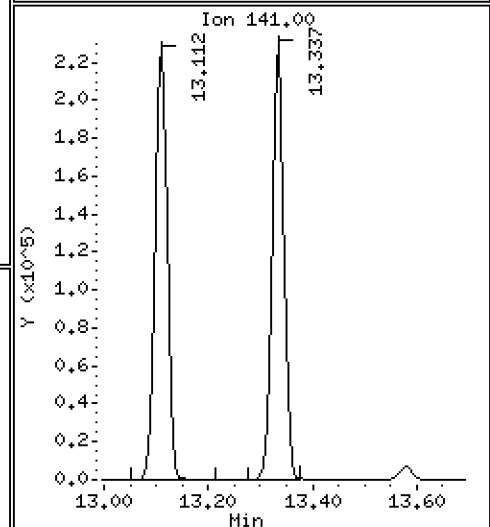
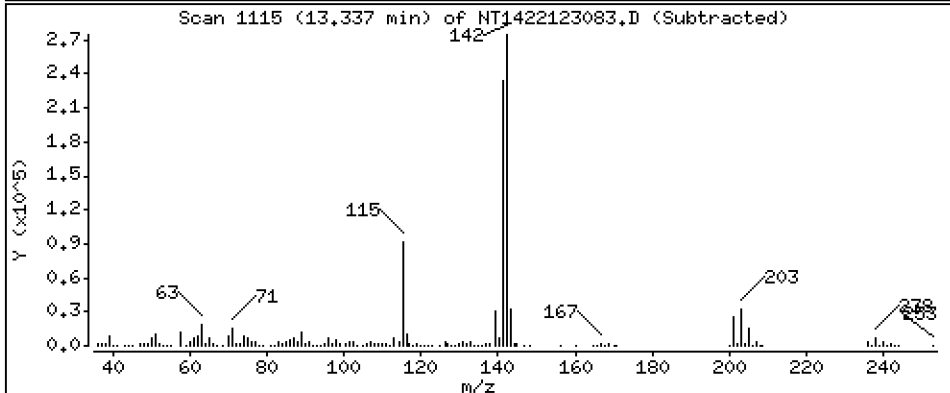
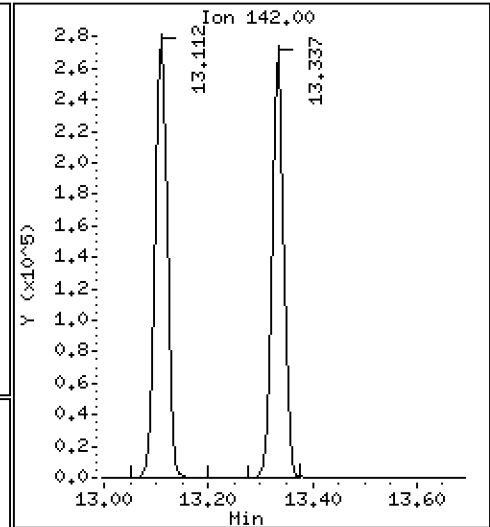
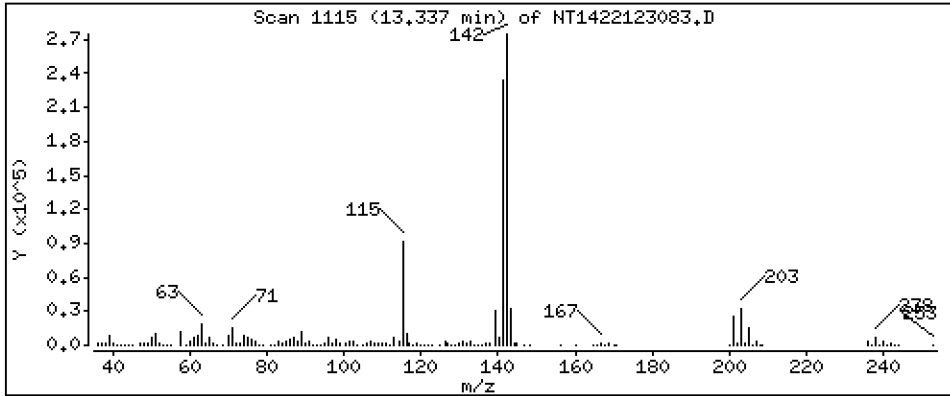
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 4,806 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

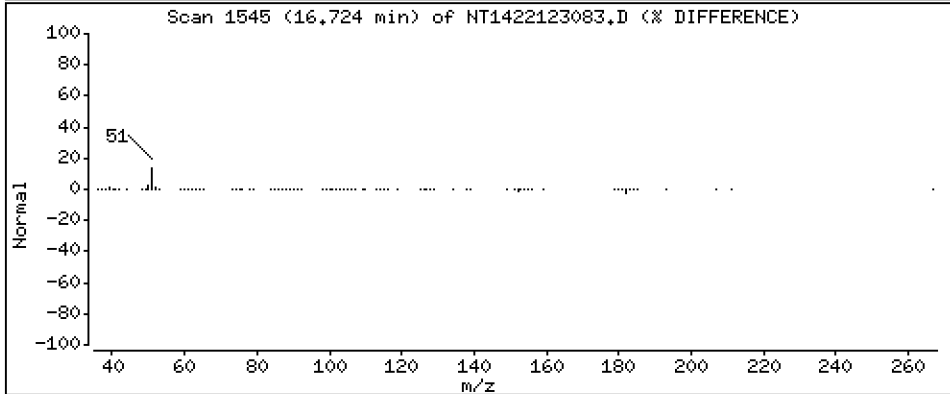
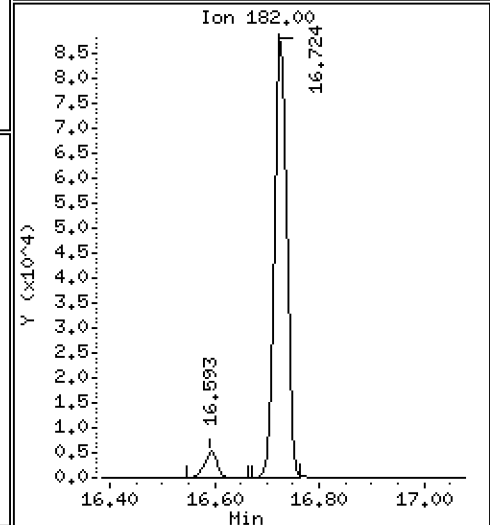
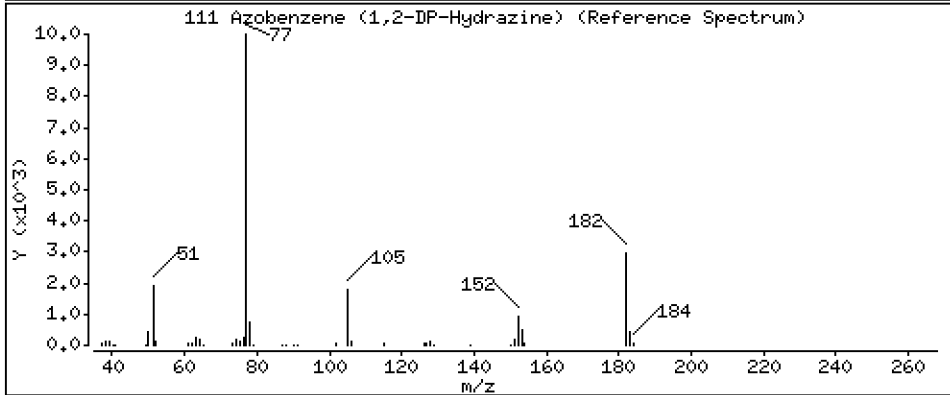
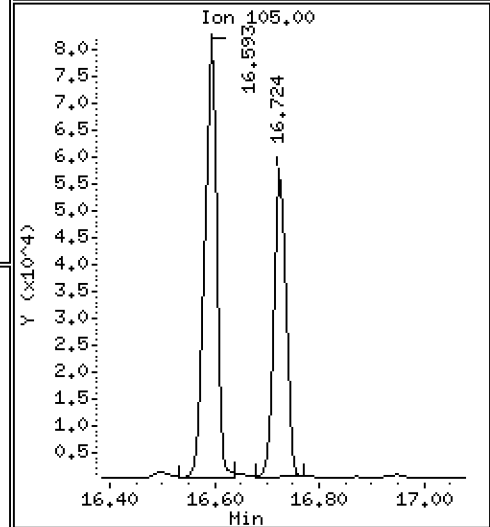
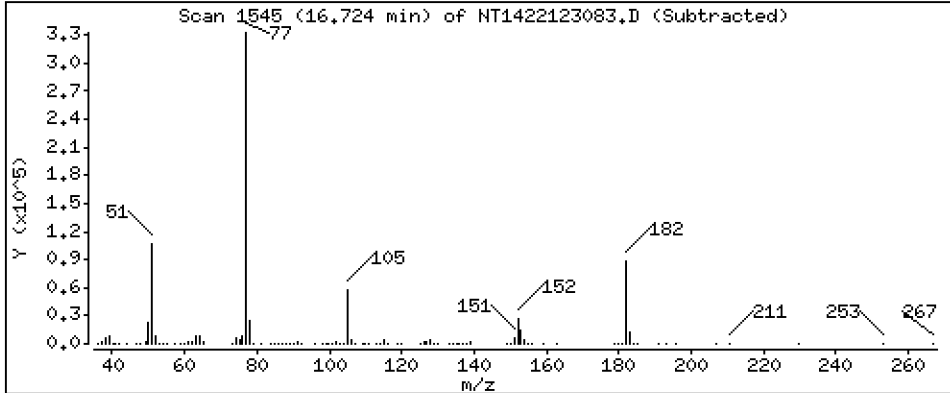
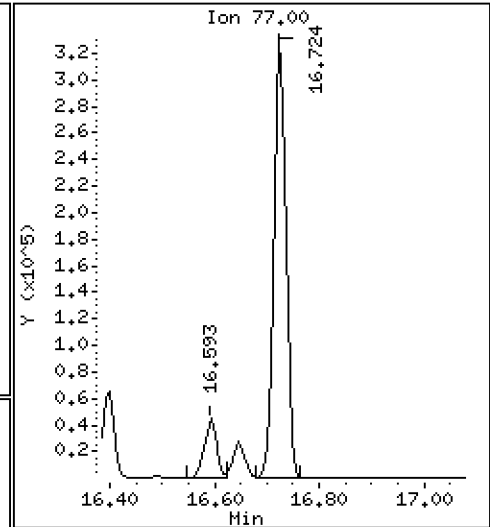
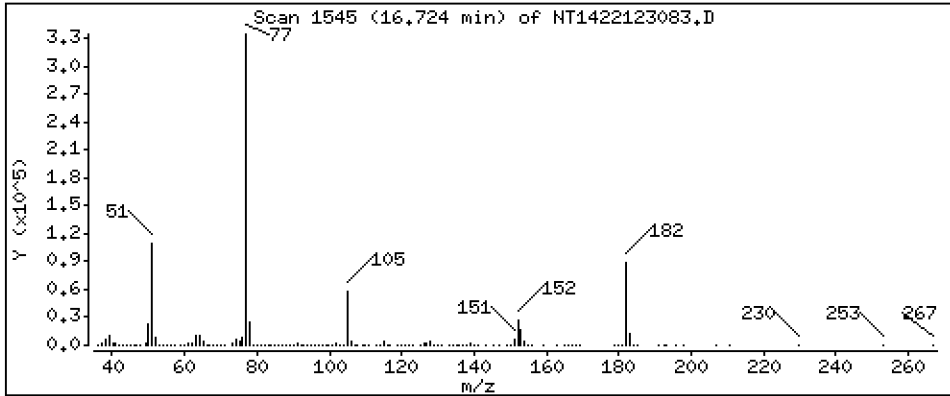
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 5,023 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

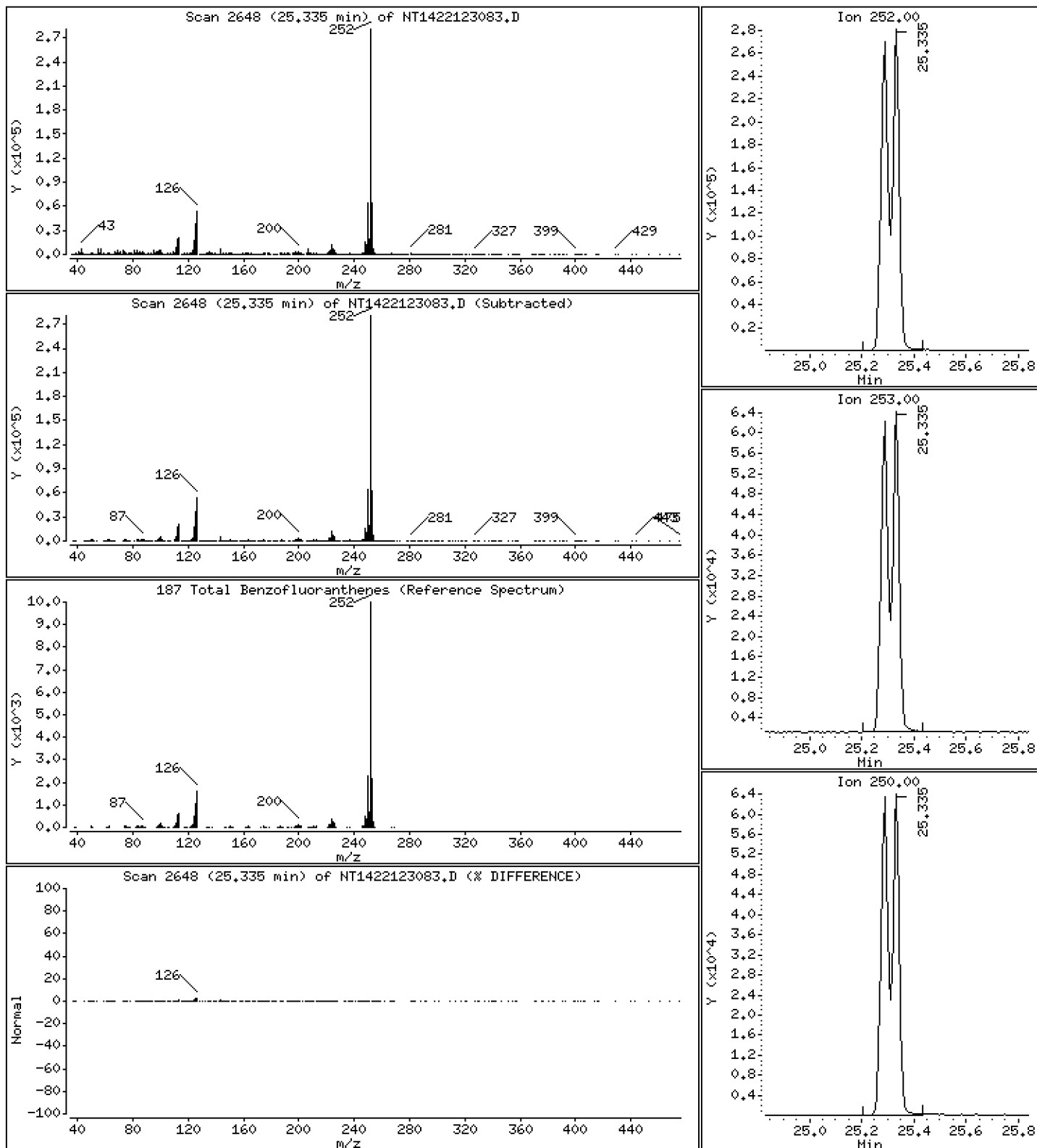
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 10,88 ug/mL



Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

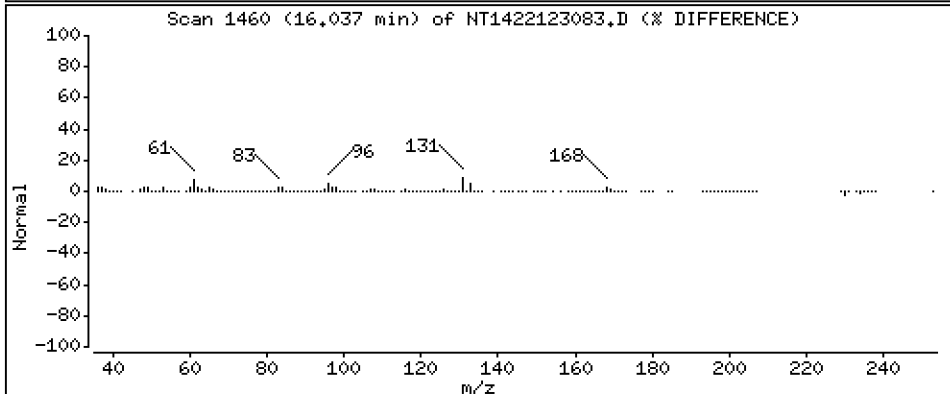
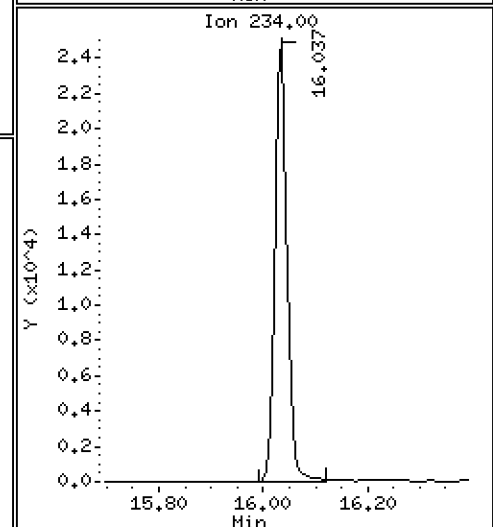
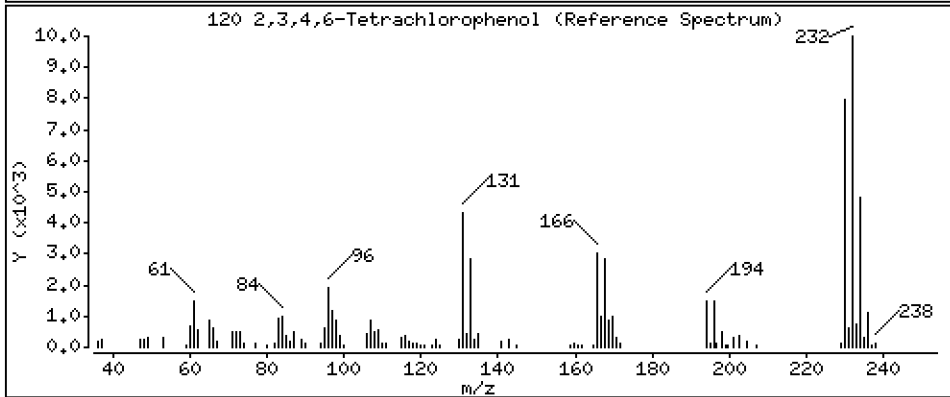
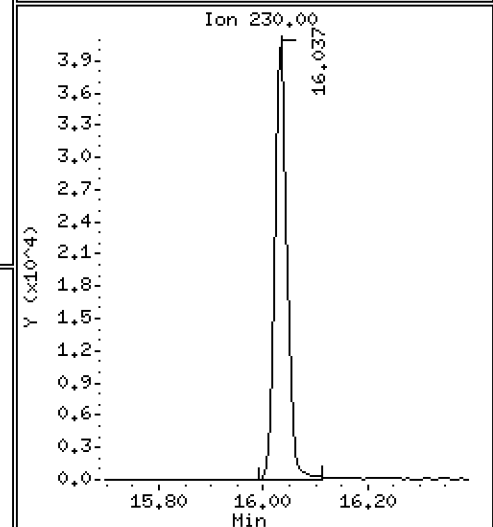
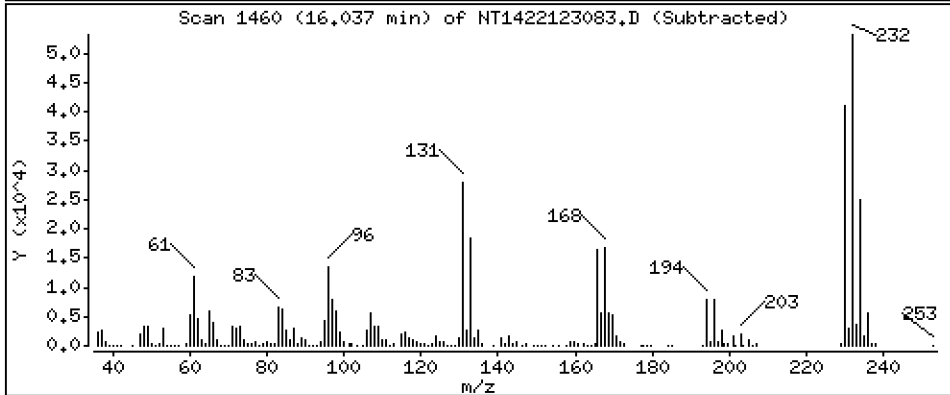
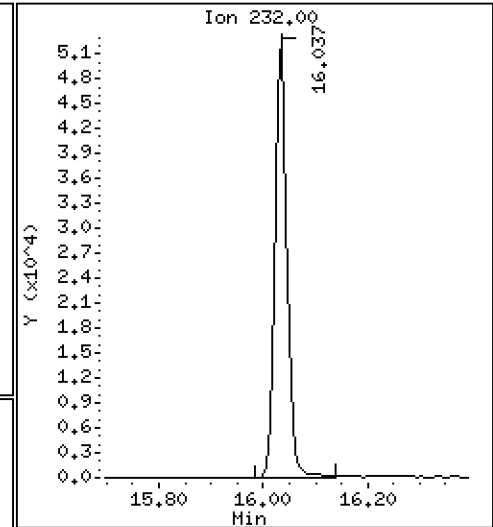
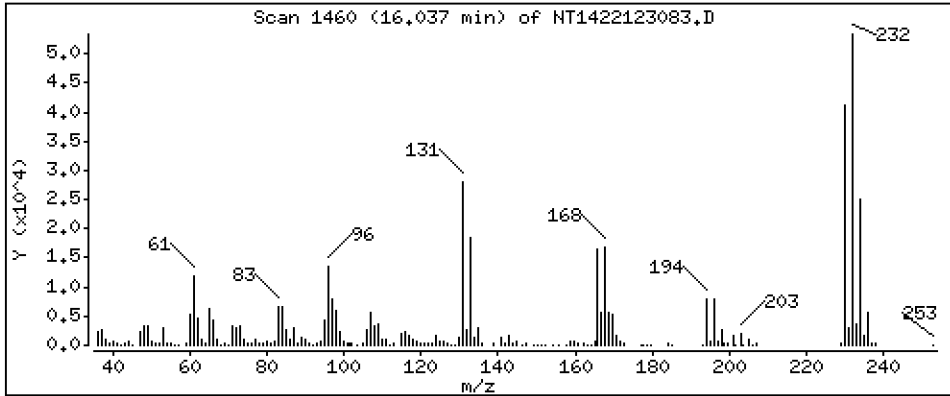
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 4,218 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D
 Lab Smp Id: SKL0355-CCV1
 Inj Date : 01-JAN-2023 09:41 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-CCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.911	6.919	(0.755)	317954	7.41864	7.419
\$ 2 Phenol-d5	99		8.511	8.519	(0.929)	395412	7.46544	7.465
3 Phenol	94		8.534	8.542	(0.932)	279794	4.64897	4.649
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	330483	7.42944	7.429
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	189850	4.57926	4.579
6 2-Chlorophenol	128		8.820	8.827	(0.963)	230007	4.70814	4.708
7 1,3-Dichlorobenzene	146		9.091	9.098	(0.992)	238135	4.59690	4.597
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	133778	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	225112	4.58694	4.587
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	142874	4.69933	4.699
12 1,2-Dichlorobenzene	146		9.548	9.556	(1.042)	221006	4.59183	4.592
11 Benzyl alcohol	108		9.432	9.440	(1.030)	130202	4.85961	4.860
14 2,2'-oxybis(1-Chloropropane)	121		9.727	9.735	(1.062)	59927	4.29457	4.295 (M)
13 2-Methylphenol	108		9.657	9.665	(1.054)	209744	4.79607	4.796
17 Hexachloroethane	117		10.146	10.154	(1.108)	78936	4.37321	4.373
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	136994	5.14232	5.142
15 4-Methylphenol	108		9.929	9.936	(1.084)	225049	4.87814	4.878
\$ 18 Nitrobenzene-d5	82		10.255	10.262	(0.879)	220294	5.25640	5.256
19 Nitrobenzene	77		10.293	10.301	(0.882)	206381	4.95846	4.958
20 Isophorone	82		10.744	10.751	(0.921)	282856	5.33213	5.332
21 2-Nitrophenol	139		10.930	10.937	(0.937)	142150	5.33356	5.334
22 2,4-Dimethylphenol	107		10.984	10.992	(0.942)	411298	9.46810	9.468
23 Bis(2-Chloroethoxy)methane	93		11.178	11.186	(0.958)	190221	4.60949	4.609
24 Benzoic acid	105		11.209	11.209	(0.961)	451965	16.4657	16.47
25 2,4-Dichlorophenol	162		11.387	11.395	(0.976)	373973	10.2129	10.21
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	175964	4.44426	4.444
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	496301	4.00000	
28 Naphthalene	128		11.704	11.712	(1.003)	552449	4.52317	4.523
29 4-Chloroaniline	127		11.828	11.835	(1.014)	497520	9.87747	9.877
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	92289	4.69792	4.698
31 4-Chloro-3-methylphenol	107		12.802	12.810	(1.097)	357102	10.3342	10.33
32 2-Methylnaphthalene	142		13.112	13.120	(1.124)	427934	4.77650	4.777
33 Hexachlorocyclopentadiene	237		13.576	13.584	(0.887)	73823	3.59434	3.594

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	235219	10.3721	10.37
35 2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	259750	9.92421	9.924
§ 36 2-Fluorobiphenyl	172	13.894	13.901	(0.908)	425968	4.66291	4.663
37 2-Chloronaphthalene	162	14.110	14.118	(0.922)	355975	4.58053	4.581
38 2-Nitroaniline	65	14.366	14.373	(0.939)	230219	11.2677	11.27
39 Dimethylphthalate	163	14.791	14.799	(0.967)	367075	4.79061	4.791
40 Acenaphthylene	152	14.985	14.993	(0.979)	597558	5.04276	5.043
41 2,6-Dinitrotoluene	165	14.931	14.938	(0.976)	175372	10.1416	10.14
* 42 Acenaphthene-d10	164	15.302	15.310	(1.000)	271703	4.00000	
43 3-Nitroaniline	138	15.225	15.225	(0.995)	203497	9.68226	9.682
44 Acenaphthene	153	15.372	15.371	(1.005)	339618	4.62086	4.621
45 2,4-Dinitrophenol	184	15.433	15.441	(1.009)	201396	13.3028	13.30
46 Dibenzofuran	168	15.696	15.704	(1.026)	497802	4.51660	4.517
47 4-Nitrophenol	109	15.549	15.557	(1.016)	94505	9.20145	9.201
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	234208	9.87157	9.872
50 Diethylphthalate	149	16.261	16.268	(1.063)	559670	5.37377	5.374
49 Fluorene	166	16.415	16.423	(1.073)	600716	5.12342	5.123
51 4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	282388	4.91943	4.919
52 4-Nitroaniline	138	16.500	16.500	(1.078)	232544	9.00330	9.003
53 4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	303918	16.4565	16.46
54 N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	349395	4.79973	4.800
§ 55 2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	88986	6.74321	6.743
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	130215	4.72400	4.724
57 Hexachlorobenzene	284	17.727	17.734	(0.966)	137713	4.55263	4.553
58 Pentachlorophenol	266	18.083	18.090	(0.985)	82791	6.13040	6.130
* 59 Phenanthrene-d10	188	18.353	18.361	(1.000)	424221	4.00000	
60 Phenanthrene	178	18.400	18.408	(1.003)	498567	4.50755	4.508
61 Anthracene	178	18.493	18.500	(1.008)	518262	4.90821	4.908
62 Carbazole	167	18.818	18.825	(1.025)	484405	4.74546	4.745
63 Di-n-butylphthalate	149	19.607	19.614	(1.068)	646156	5.36383	5.364
64 Fluoranthene	202	20.783	20.791	(0.888)	579163	4.61703	4.617
65 Pyrene	202	21.208	21.216	(0.906)	596174	4.52023	4.520
§ 66 Terphenyl-d14	244	21.487	21.495	(0.918)	400031	4.27757	4.278
67 Butylbenzylphthalate	149	22.401	22.408	(0.957)	275908	5.43982	5.440
68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	568721	4.81897	4.819
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	389585	4.00000	
70 3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	609561	16.8723	16.87
71 Chrysene	228	23.438	23.446	(1.002)	526209	4.72033	4.720
72 bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	372110	4.87023	4.870
* 134 Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	687974	4.00000	
73 Di-n-octylphthalate	149	24.429	24.429	(1.001)	709063	4.29363	4.294
74 Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	521340	5.55264	5.553
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	511175	5.34917	5.349
76 Benzo(a)pyrene	252	25.962	25.970	(0.996)	391315	5.01357	5.014
* 77 Perylene-d12	264	26.078	26.086	(1.000)	298756	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	228030	2.57003	2.570
79 Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	207084	2.74656	2.747
80 Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	154703	2.08134	2.081
90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	9.62507	9.625
91 Aniline	93	8.604	8.611	(0.939)	555688	9.48271	9.483
93 Benzidine	184	21.007	21.015	(0.898)	288297	5.89835	5.898
103 Pyridine	79	4.741	4.741	(0.518)	431484	4.60040	4.600
105 1-methylnaphthalene	142	13.336	13.344	(1.143)	413739	4.80634	4.806
111 Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	506820	5.02307	5.023

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	987382	10.8776	10.88
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	83545	4.21762	4.218

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123083.D Calibration Time: 23:30
 Lab Smp Id: SKL0355-CCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	133778	-3.59
27 Naphthalene-d8	501723	250862	1003446	496301	-1.08
42 Acenaphthene-d10	275234	137617	550468	271703	-1.28
59 Phenanthrene-d10	440085	220043	880170	424221	-3.60
69 Chrysene-d12	384795	192398	769590	389585	1.24
134 Di-n-octylphthala	674530	337265	1349060	687974	1.99
77 Perylene-d12	336665	168333	673330	298756	-11.26

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

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

REVIEW SUMMARY FOR FILE - NT1422123083.D

Lab ID: SKL0355-CCV1
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 09:41

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1422123066.D

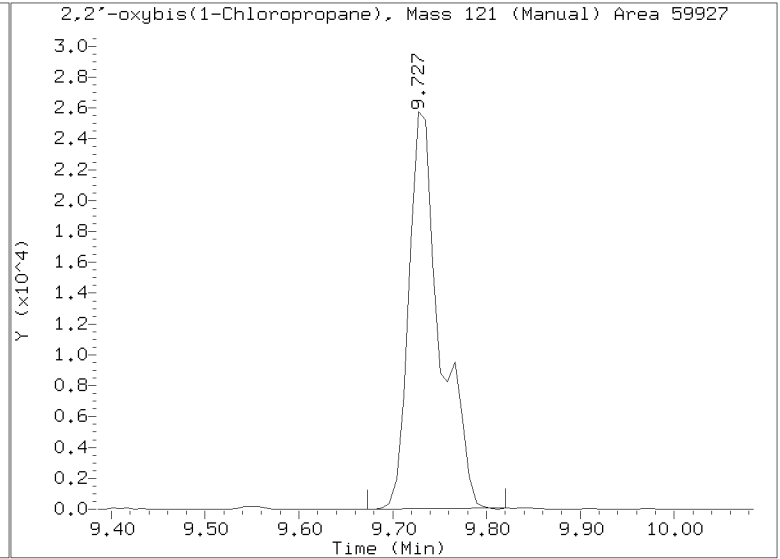
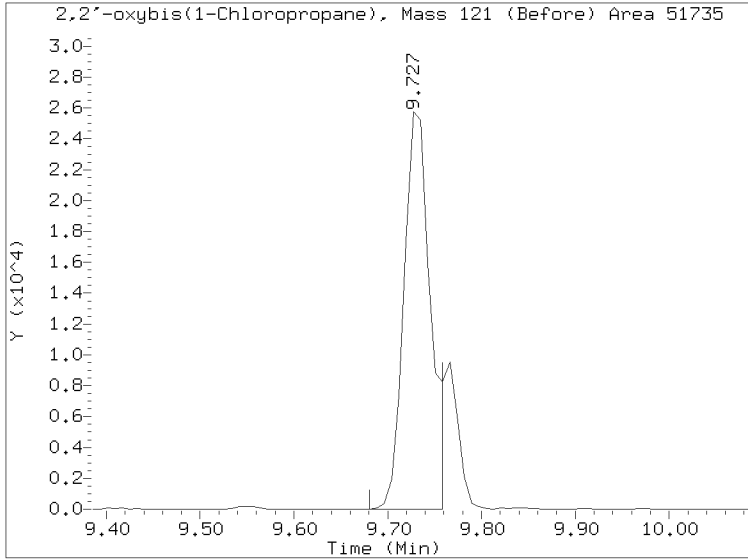
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123083.D
Injection Date: 01-JAN-2023 09:41
Lab ID:SKL0355-CCV1 Client ID:
Report Date: 01/04/2023 14:27

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123051.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-LCV1

Injection Time: 14:29

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0643140		14.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4816530		19.5	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7203190		17.8	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9026260		22.8	+/-50
1,4-Dichlorobenzene	A	0.20000	0.2	1.4674070	1.8246170		24.3	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7502170		21.6	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6500168		-18.9	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.4665069		11.8	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.5306240		17.1	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.4735517		-12.3	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.8792323		10.4	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4627520		6.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3780682		12.7	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4201436		-1.7	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2077004		1.4	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.3988007		13.9	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3920620		17.9	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3048823		3.3	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3864269		21.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1700810		18.9	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0465600		-78.2	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4118553		1.5	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1760029		11.2	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.2791957		0.3	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8053026		11.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.02	0.3023695	0.0162513		-94.6	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.4	0.3338641	0.3126991		-6.3	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.4157471		7.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3567070		18.6	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.2987101		-0.7	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9676080		12.8	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2584600		11.6	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2237324		-12.1	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2721260		17.6	+/-50

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123051.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-LCV1

Injection Time: 14:29

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.3	0.3094189	0.2607134		-15.7	+/-50
2,4-Dinitrophenol	A	0.80000	0.005	0.1831718	0.0014312		-99.3	+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9508950		20.2	+/-50
4-Nitrophenol	A	0.40000	0.2	0.1384031	0.0879048		-40.6	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2636682		-24.5	+/-50
Fluorene	A	0.20000	0.2	1.7261350	1.9622530		13.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.9033324		6.9	+/-50
Diethyl phthalate	A	0.20000	0.2	1.5332690	1.7458150		13.9	+/-50
4-Nitroaniline	A	0.40000	0.3	0.3413732	0.2911846		-21.8	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.2	0.1530278	0.0423797		-74.8	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.2	0.6863845	0.8312522		21.1	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2955359		13.7	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3266661		14.5	+/-50
Pentachlorophenol	A	0.40000	0.08	0.1128364	0.0236786		-80.8	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2592500		20.7	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.0865090		9.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.0462870		8.7	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.0352390		-4.7	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.4861000		15.4	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.4975920		10.6	+/-50
Butylbenzylphthalate	A	0.20000	0.2	0.4650792	0.5311603		4.0	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.2117210	1.4633910		20.8	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.7	0.3709370	0.4304254		16.0	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3813490		20.7	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.2	0.4442323	0.4854060		9.3	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1615200		21.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5457340		27.2	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.0450150	1.2622770		20.8	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8474652		-28.7	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.1	1.0094890	0.7555898		-25.2	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.6117218		-38.5	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.8037999		15.9	+/-50
2-Fluorophenol	A	0.30000	0.344	1.2814900	1.4710570		14.8	+/-50
Phenol-d5	A	0.30000	0.307	1.5836890	1.6214620		2.4	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>FL00066</u>
Lab File ID:	<u>NT1422123051.D</u>	Calibration Date:	<u>12/30/2022</u>
Sequence:	<u>SKL0355</u>	Injection Date:	<u>12/31/22</u>
Lab Sample ID:	<u>SKL0355-LCV1</u>	Injection Time:	<u>14:29</u>
Sequence Name:	<u>ABN 0.2</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.332	1.3300510	1.4726610		10.7	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.241	0.9090592	1.0955610		20.5	+/-50
Nitrobenzene-d5	A	0.20000	0.214	0.3377760	0.3615386		7.0	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.5008450		11.6	+/-50
2,4,6-Tribromophenol	A	0.30000	0.212	0.1844845	0.1322265		-29.4	+/-50
p-Terphenyl-d14	A	0.20000	0.218	0.9601842	1.0445280		8.8	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230B.B\NT1422123051.D

Date: 31-DEC-2022 14:29

Client ID:

Sample Info: SKL0355-LCW1

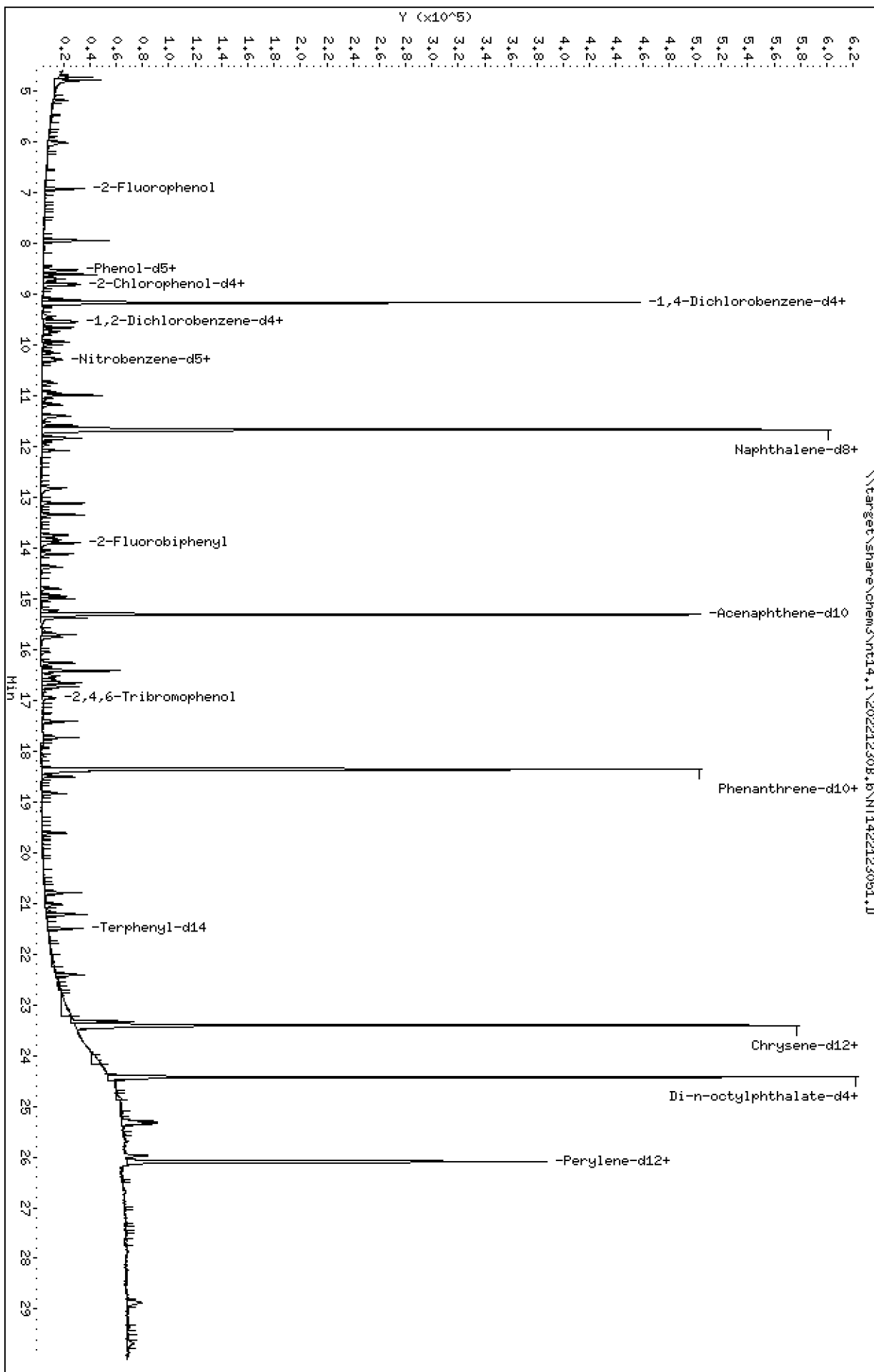
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

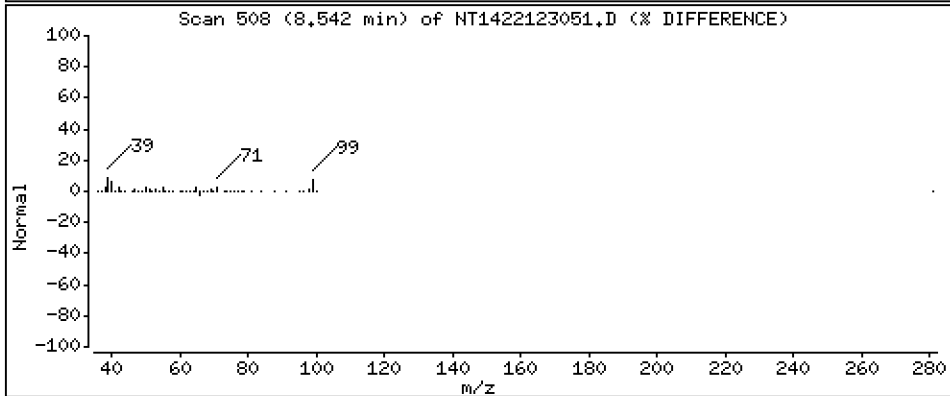
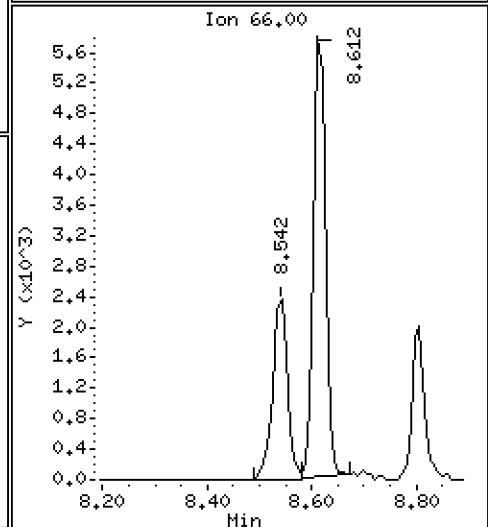
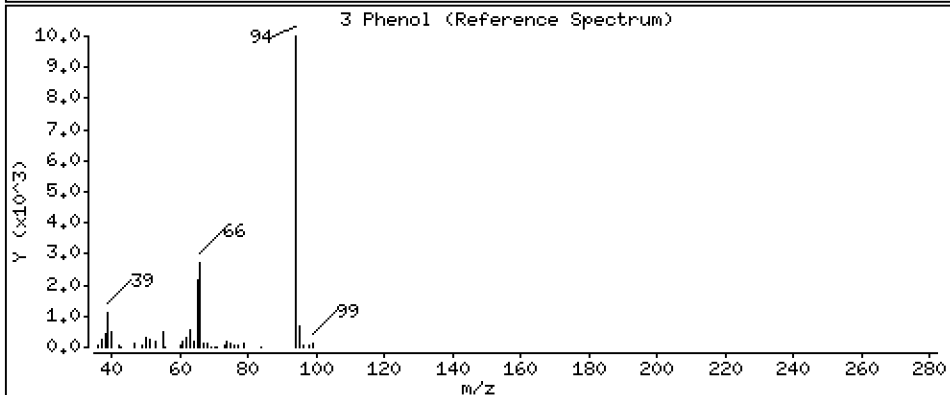
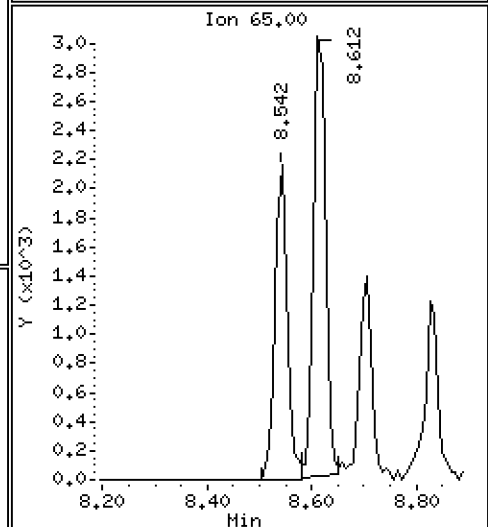
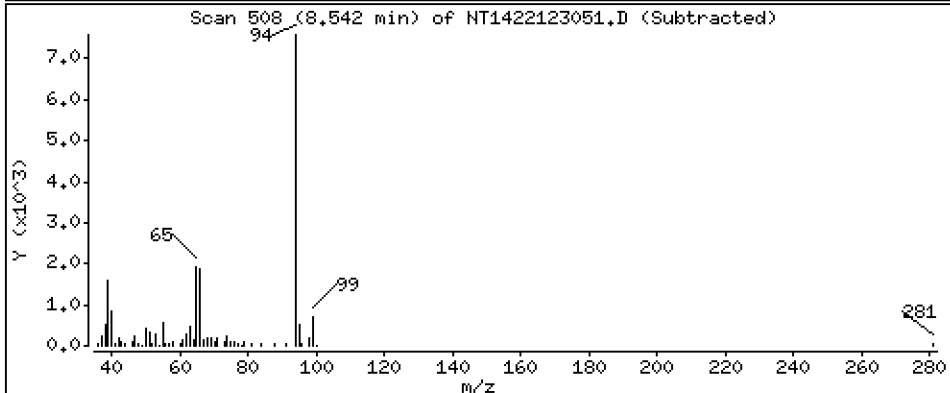
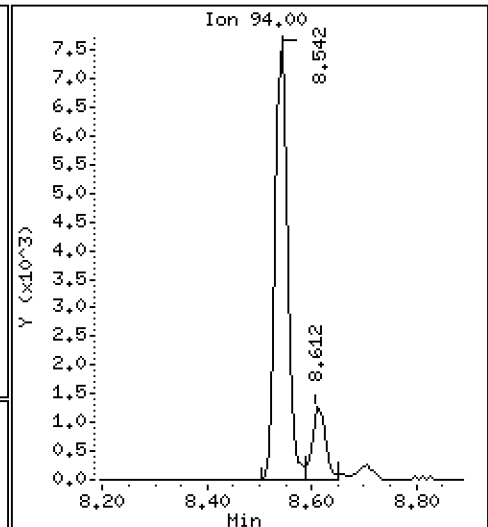
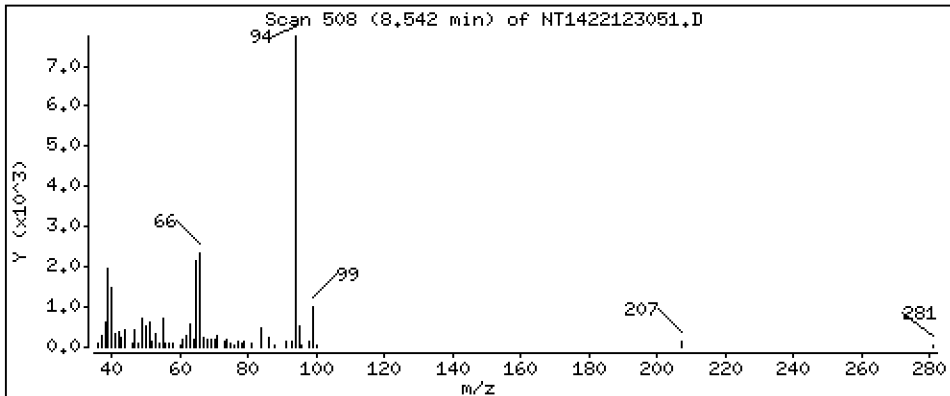
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2294 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

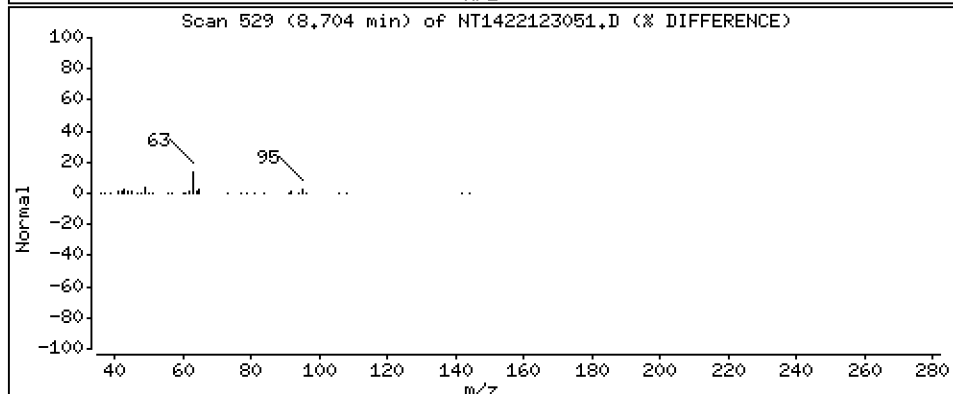
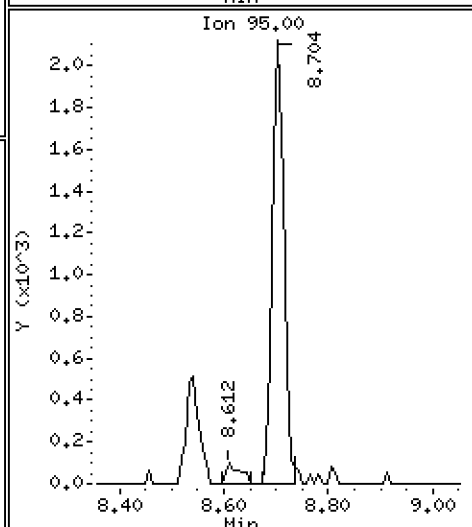
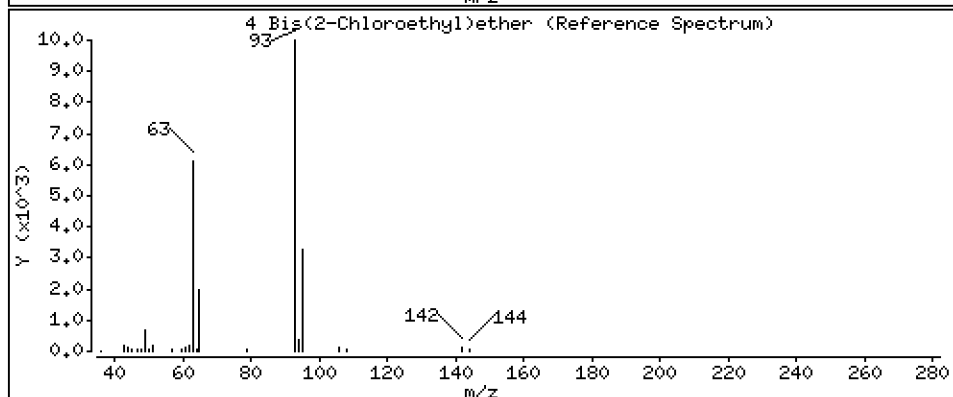
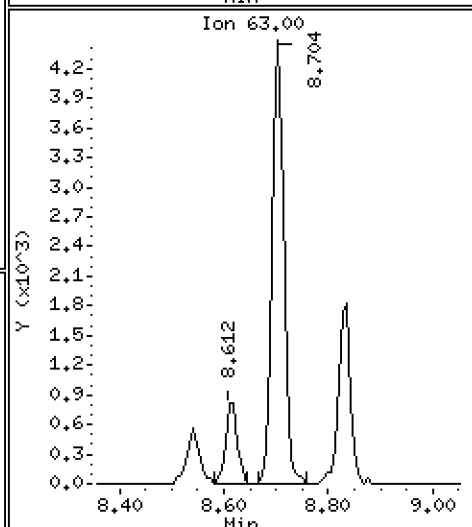
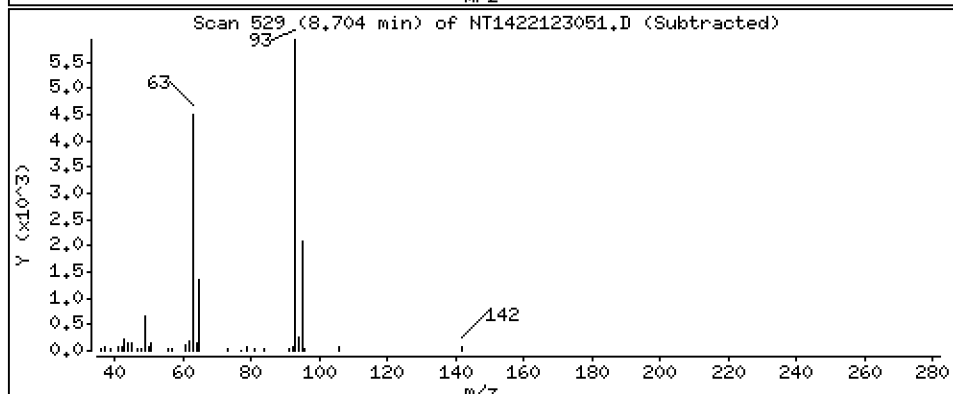
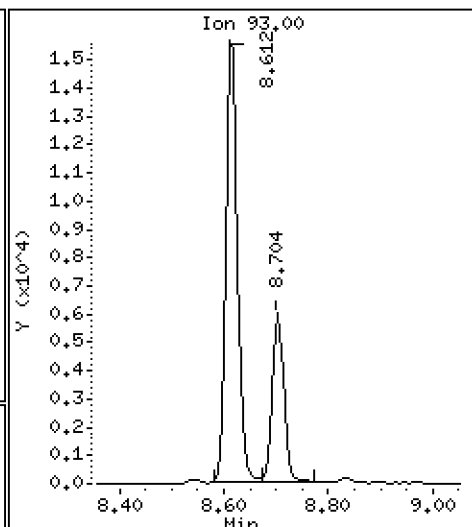
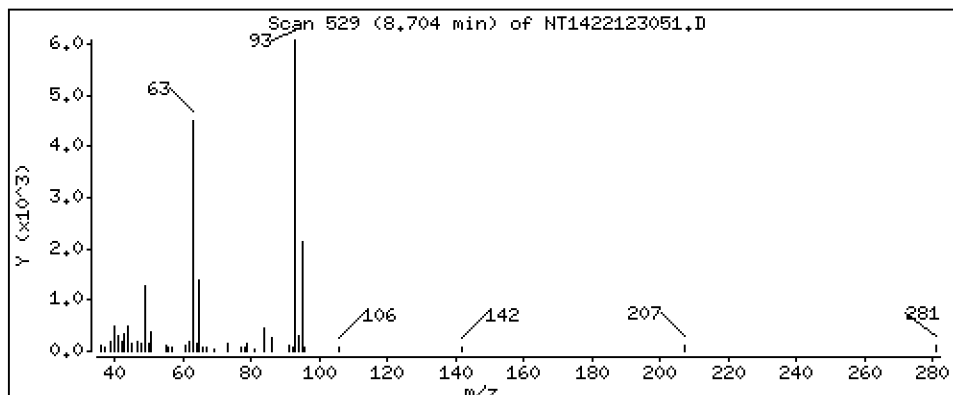
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2390 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

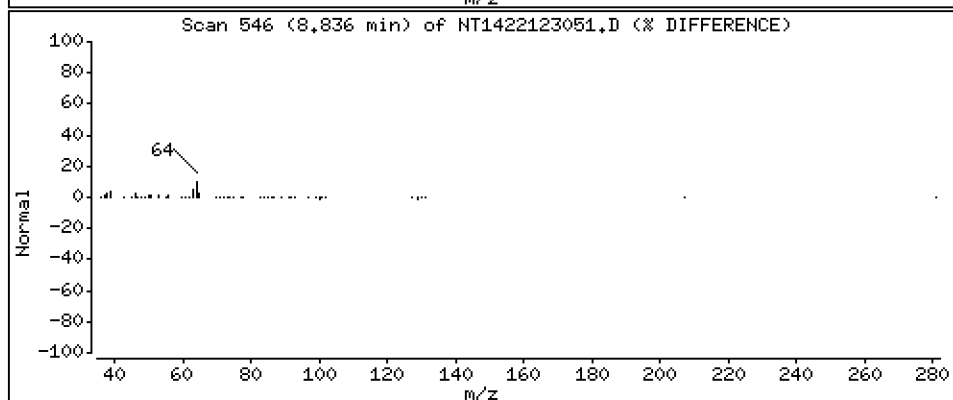
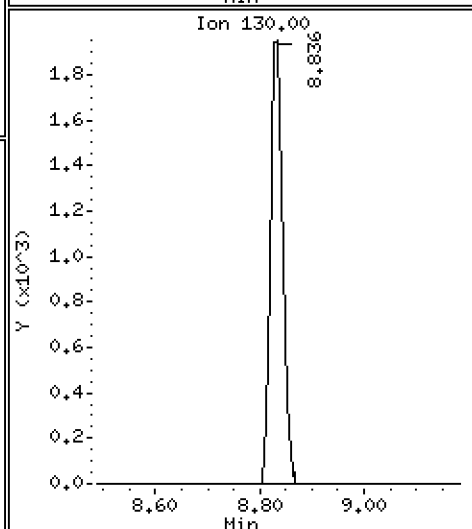
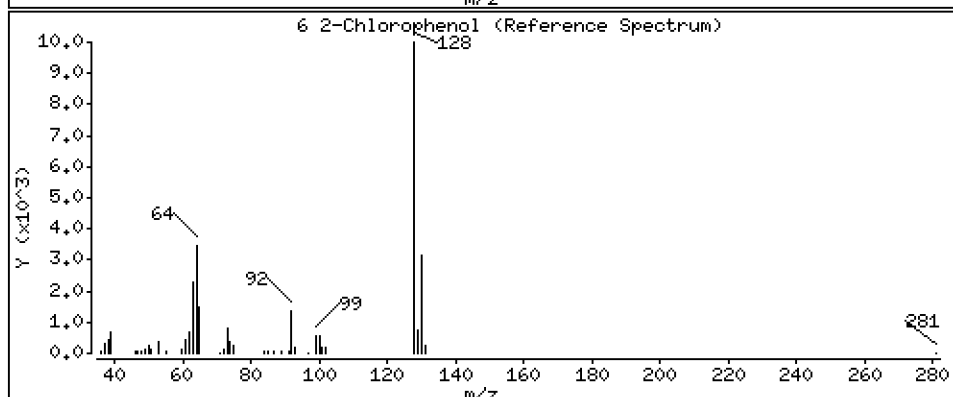
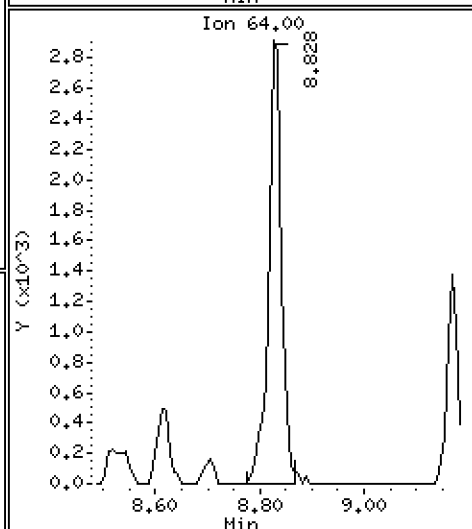
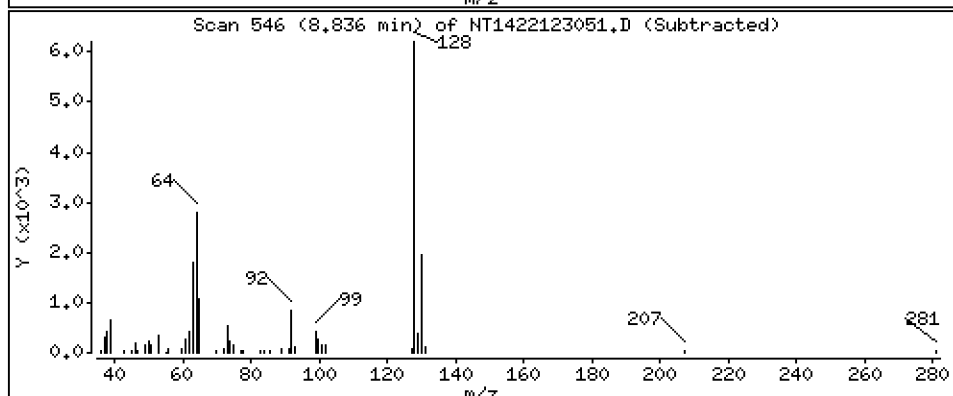
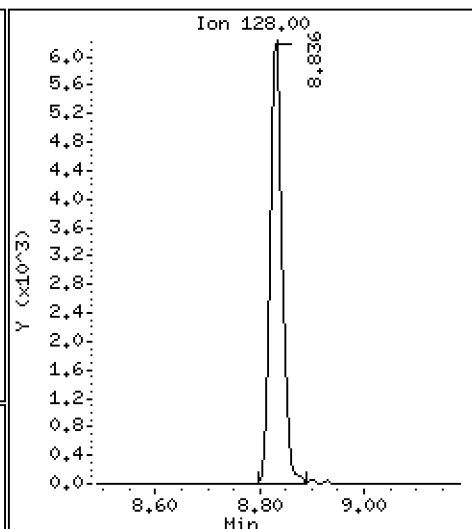
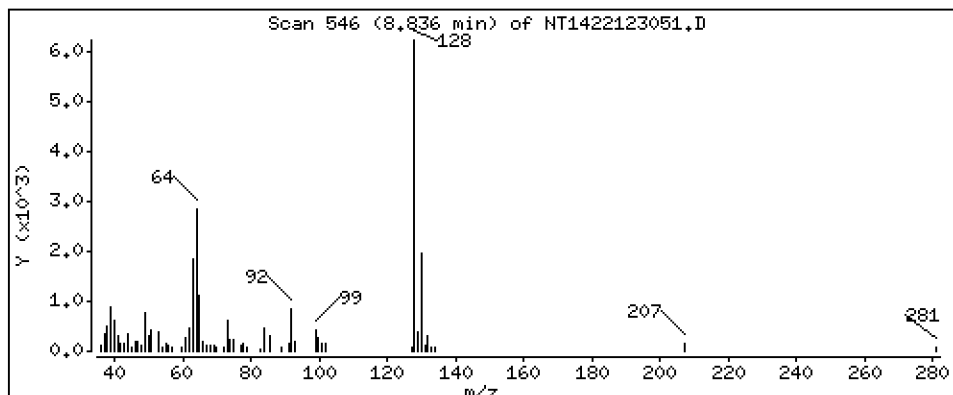
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2355 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

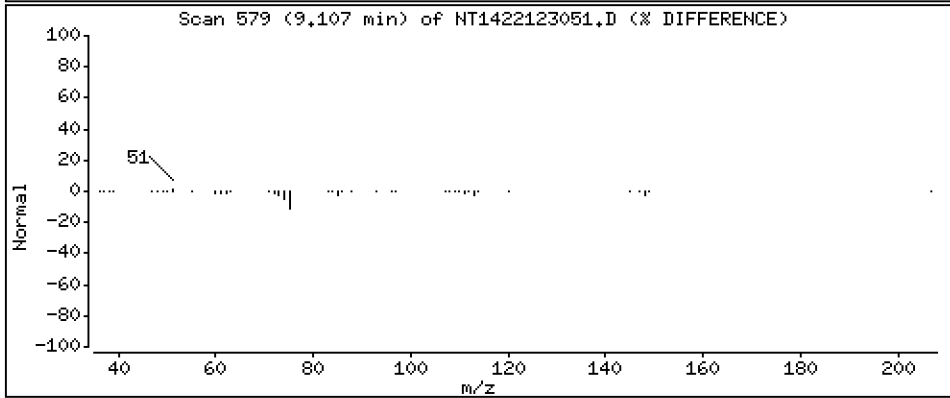
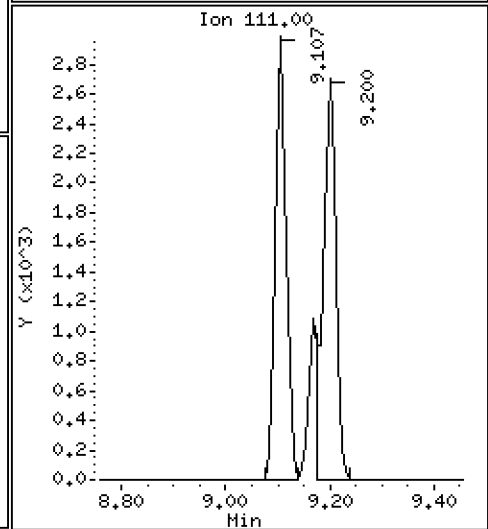
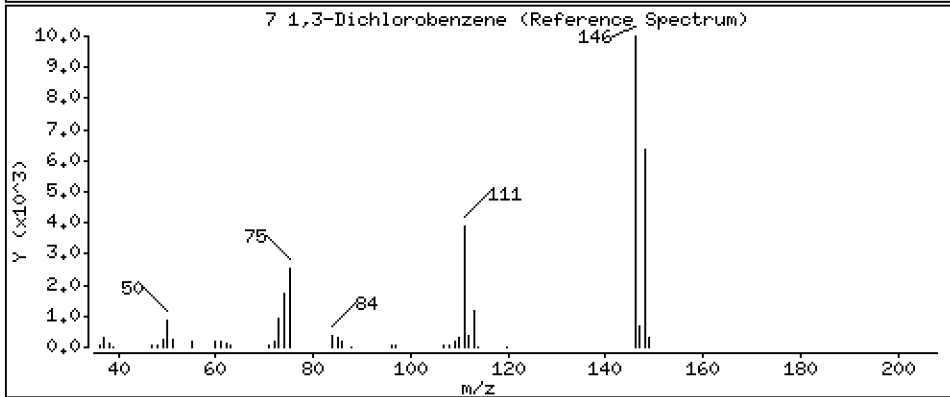
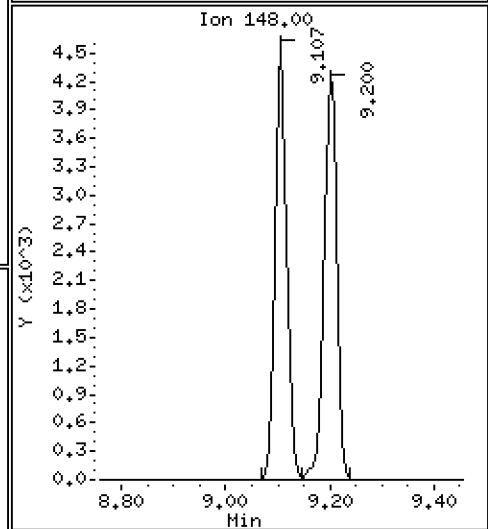
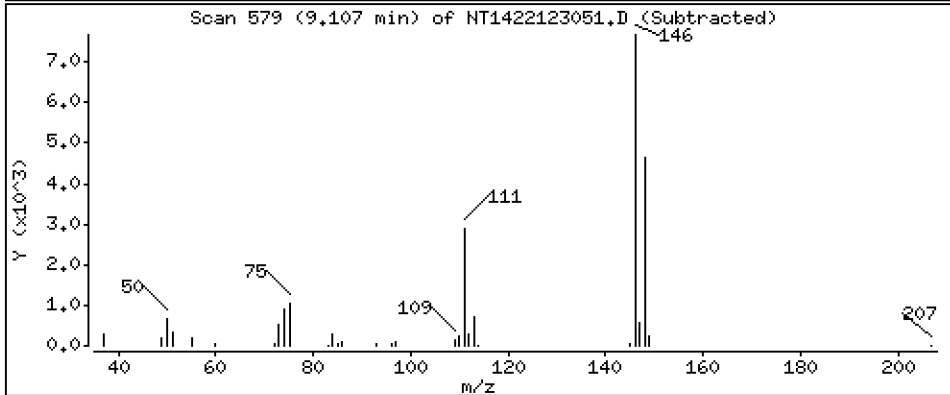
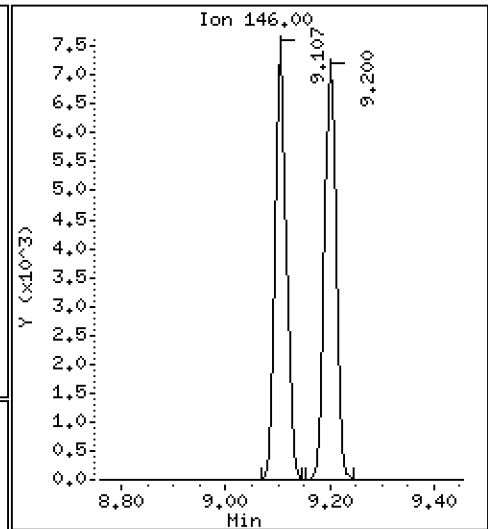
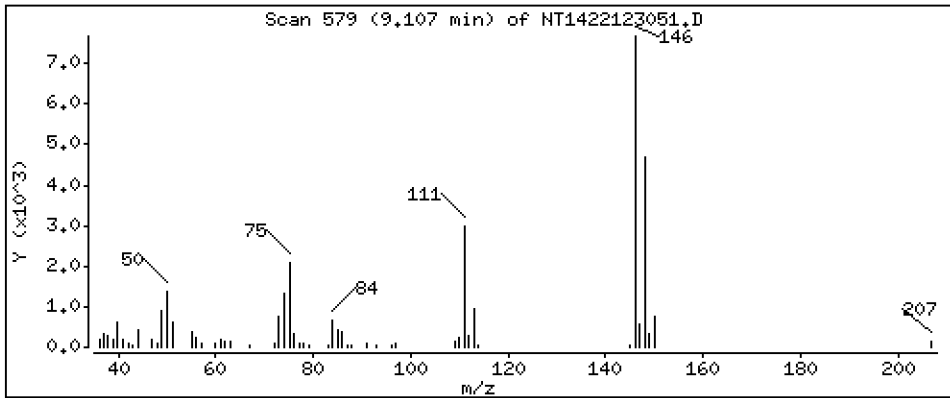
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

7 1,3-Dichlorobenzene

Concentration: 0,2457 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

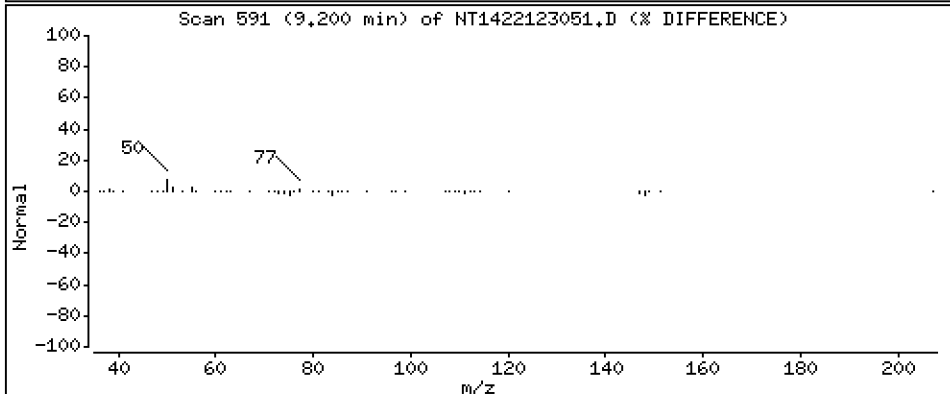
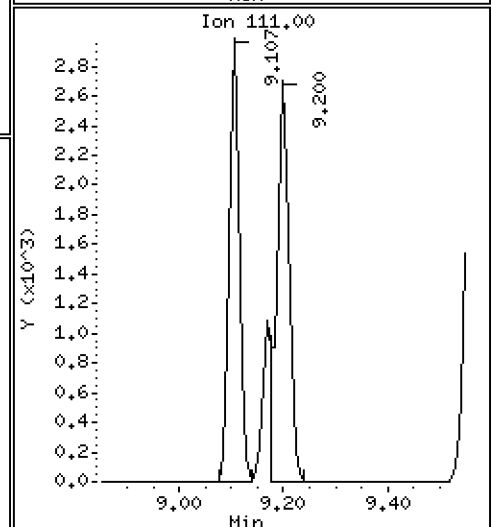
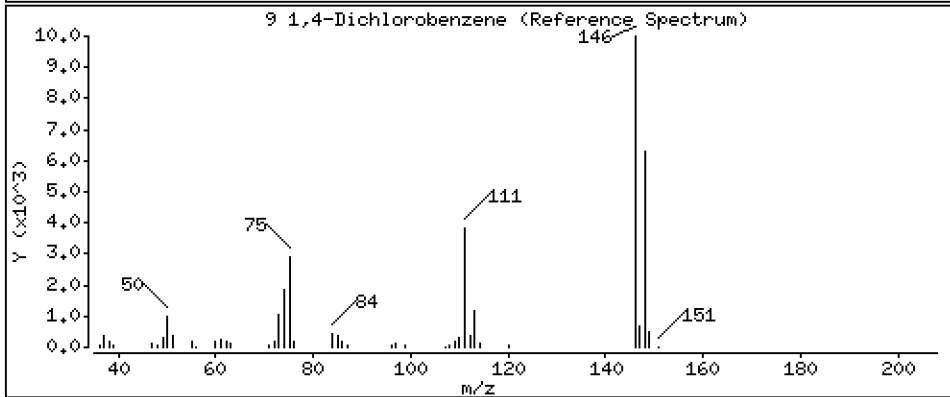
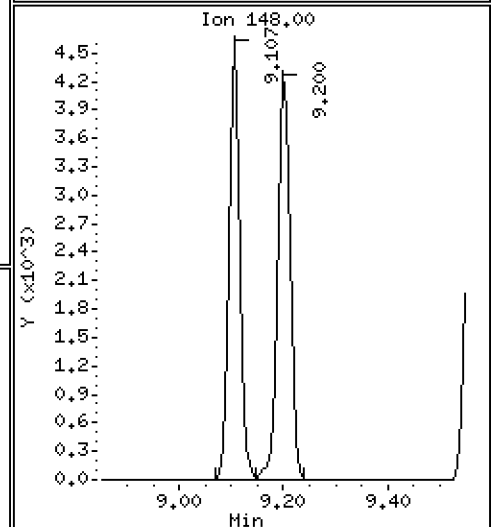
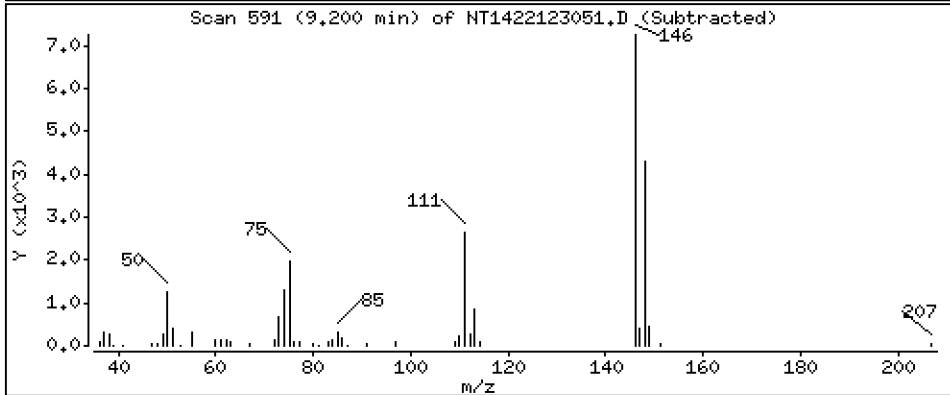
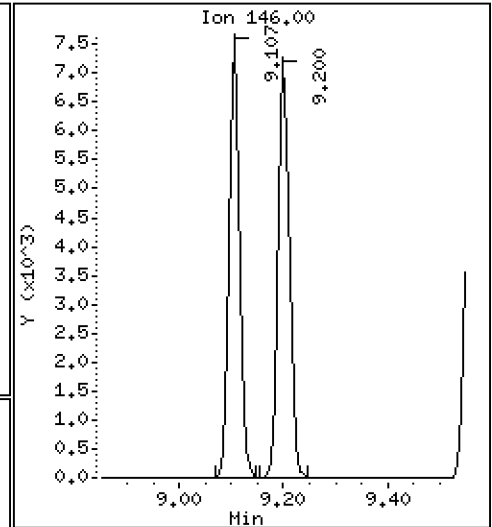
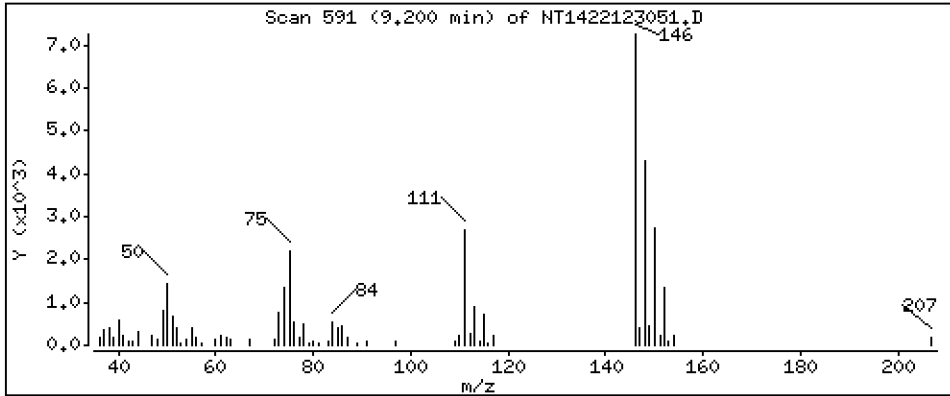
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2487 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

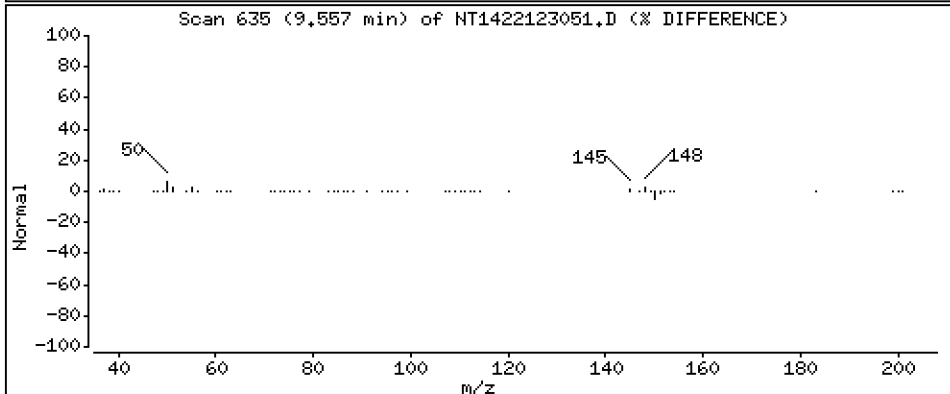
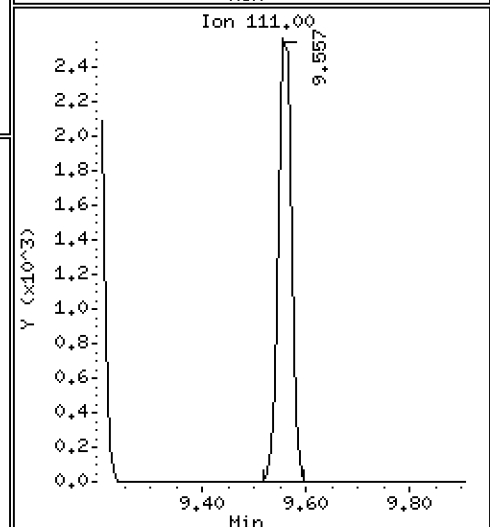
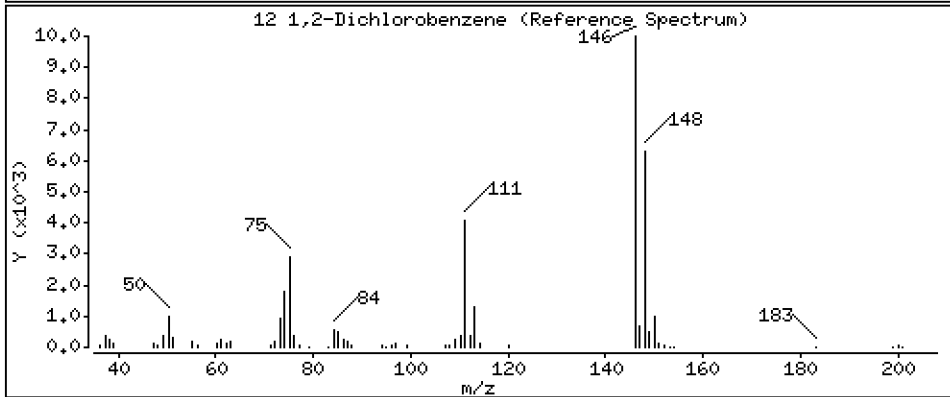
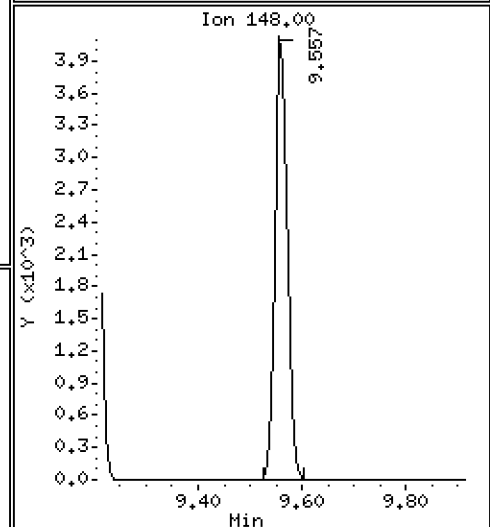
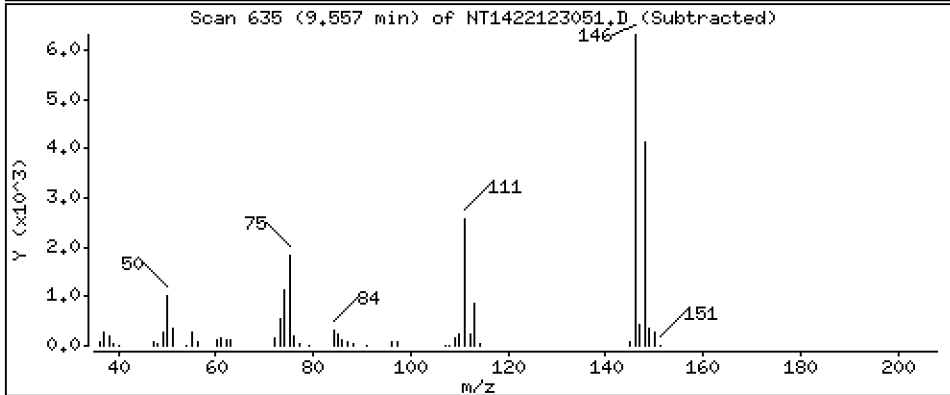
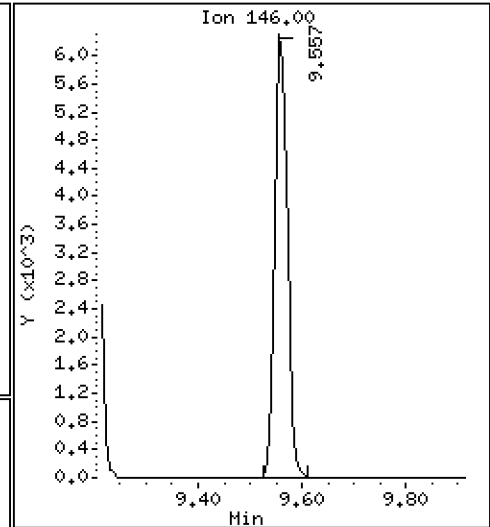
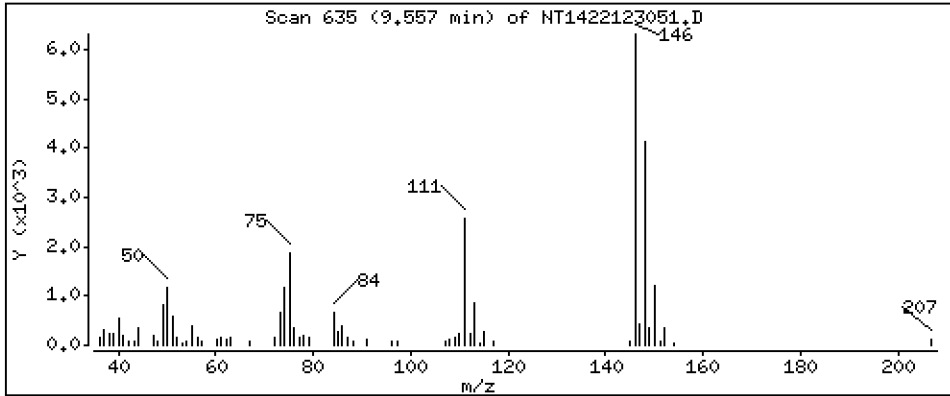
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.2432 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

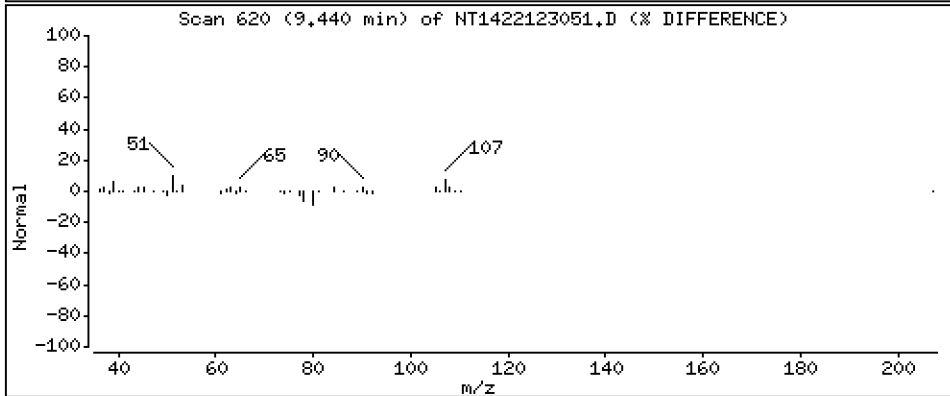
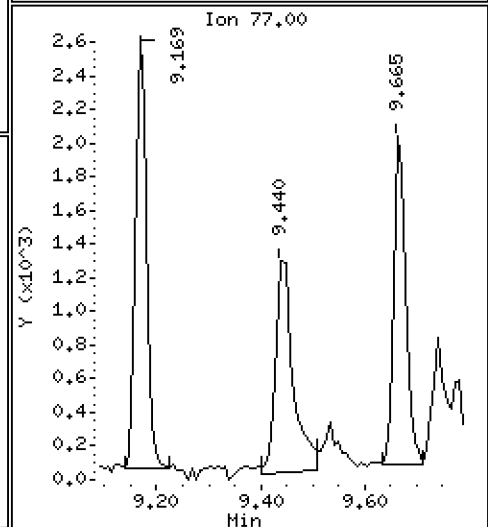
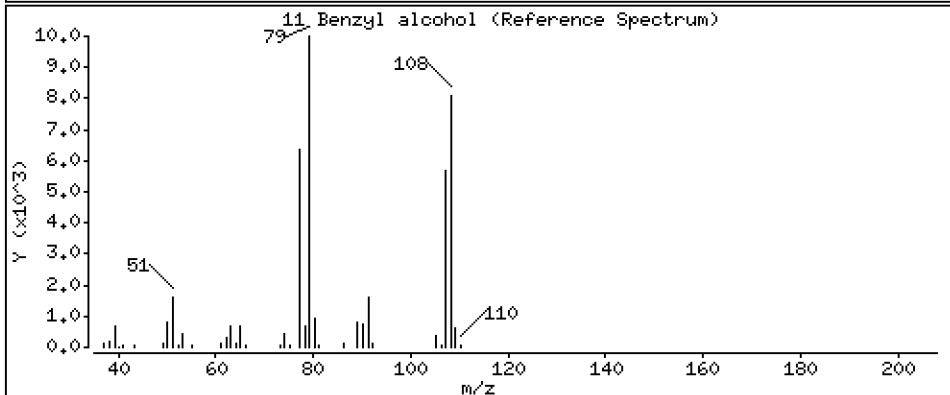
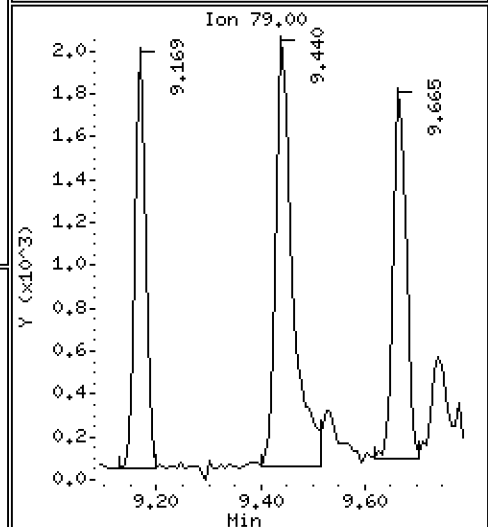
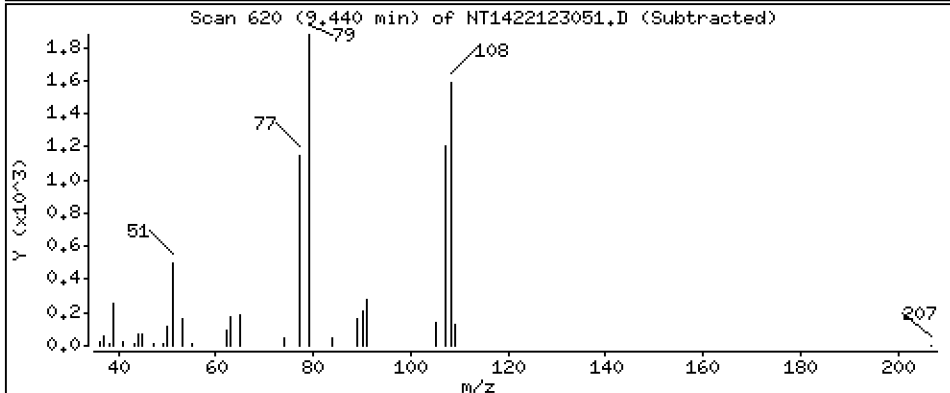
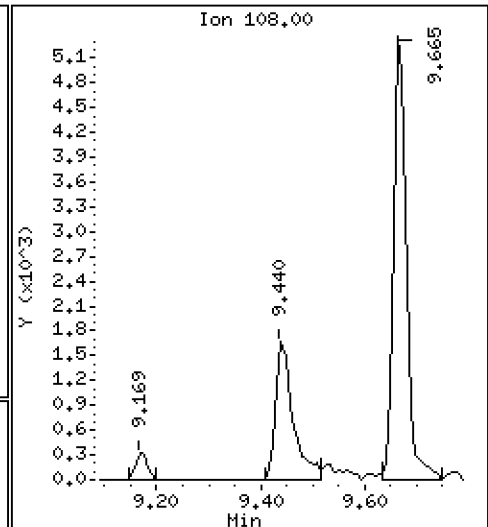
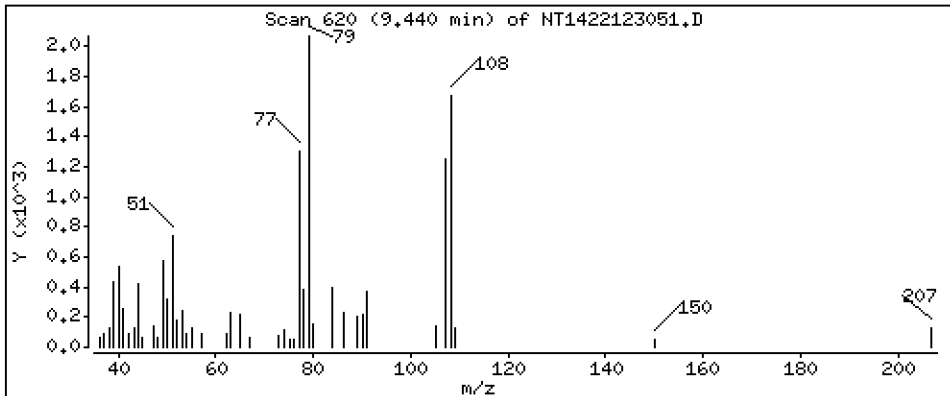
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1623 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

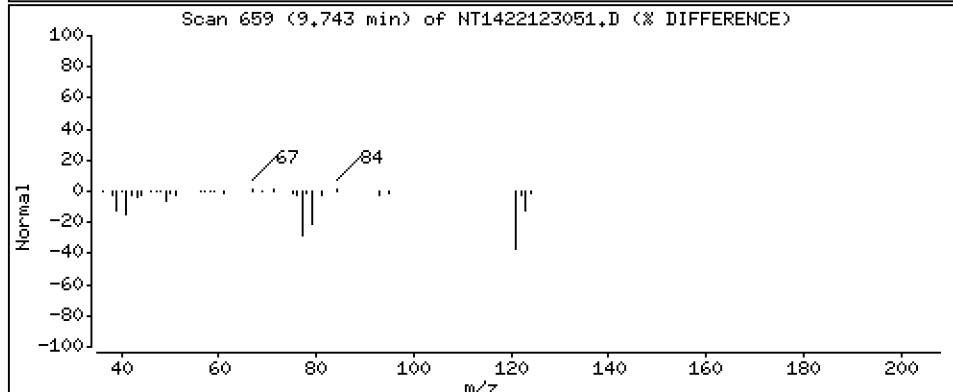
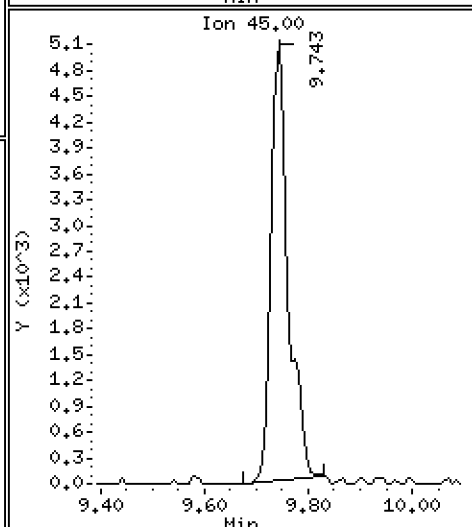
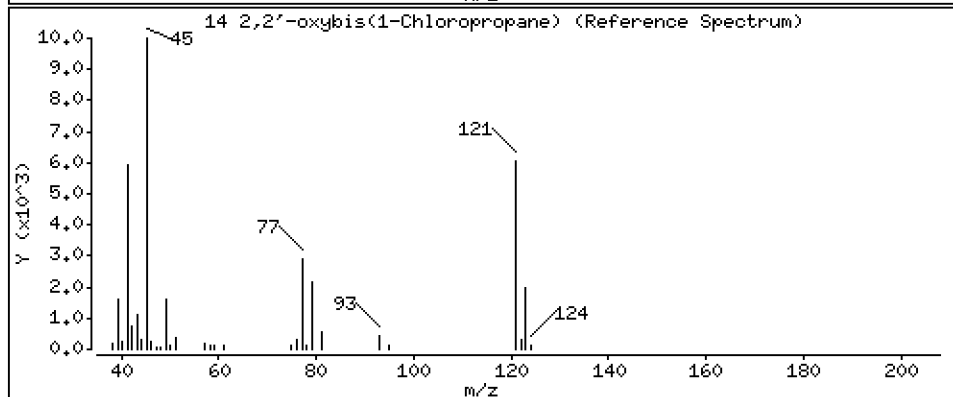
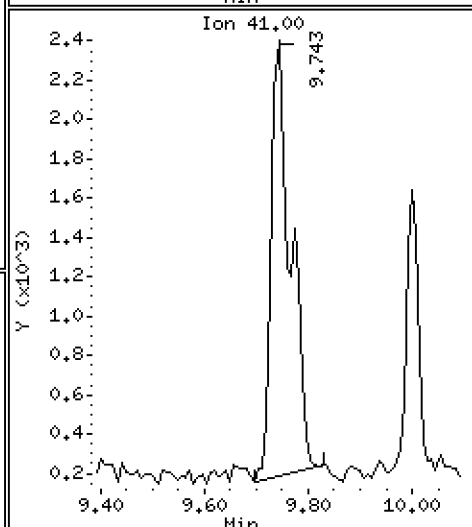
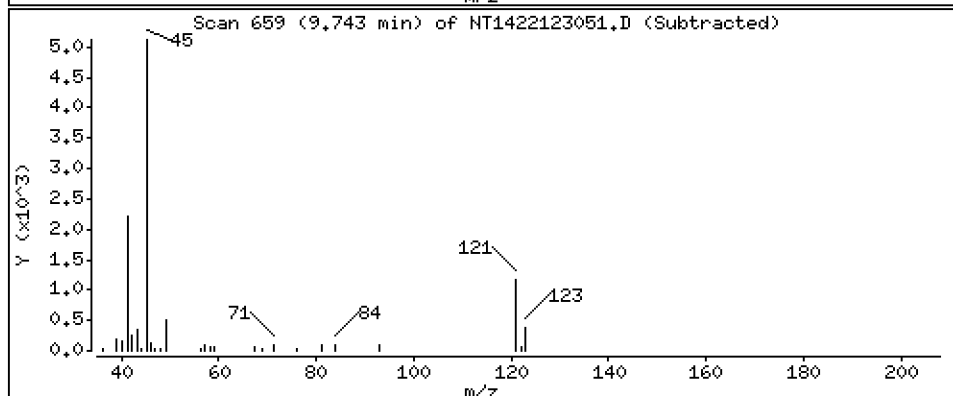
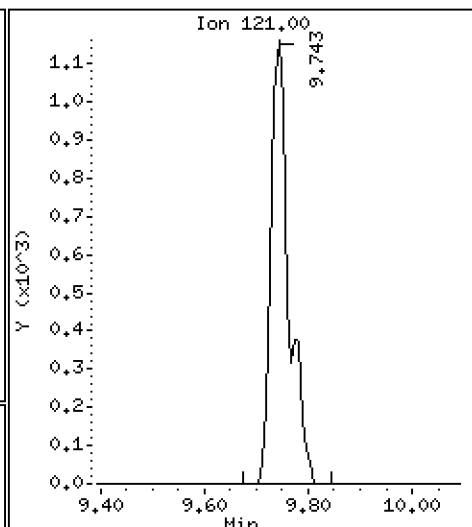
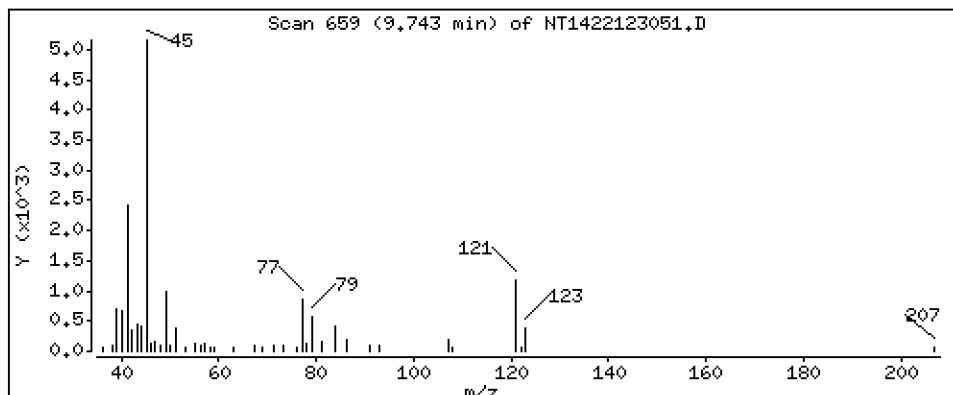
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2236 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

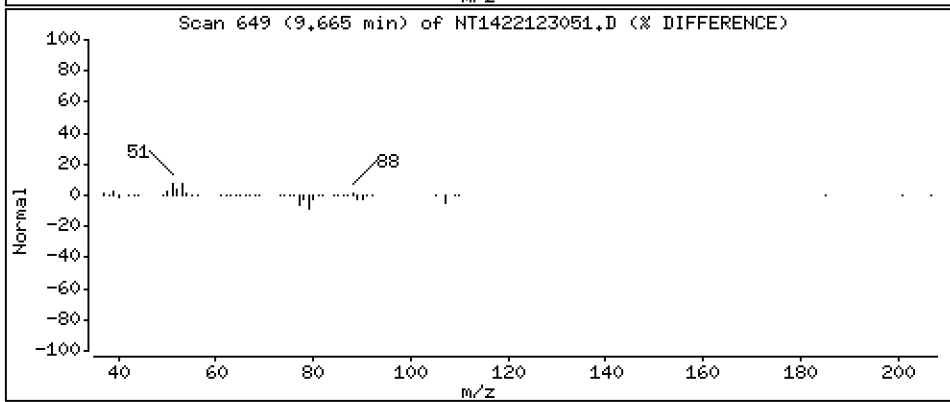
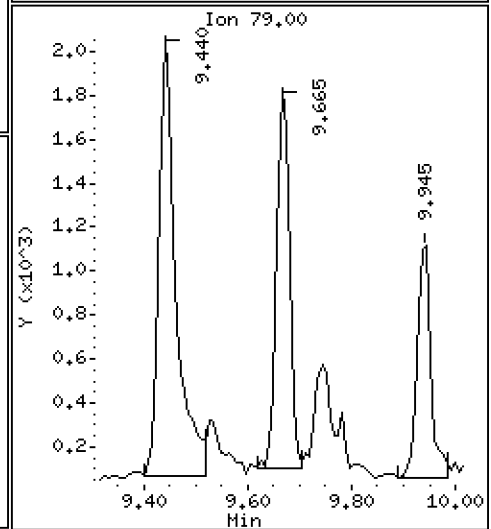
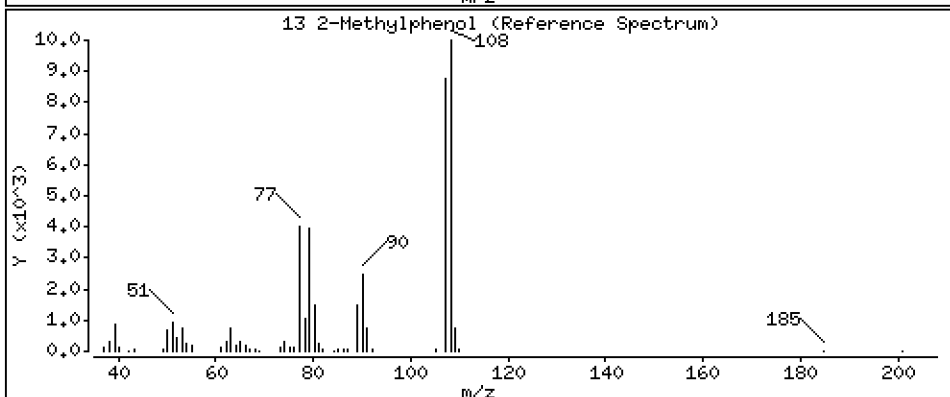
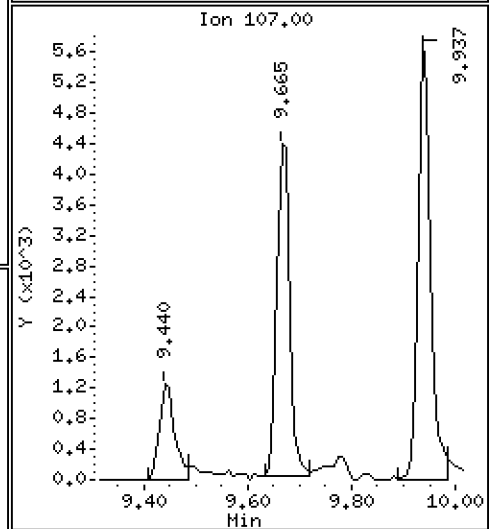
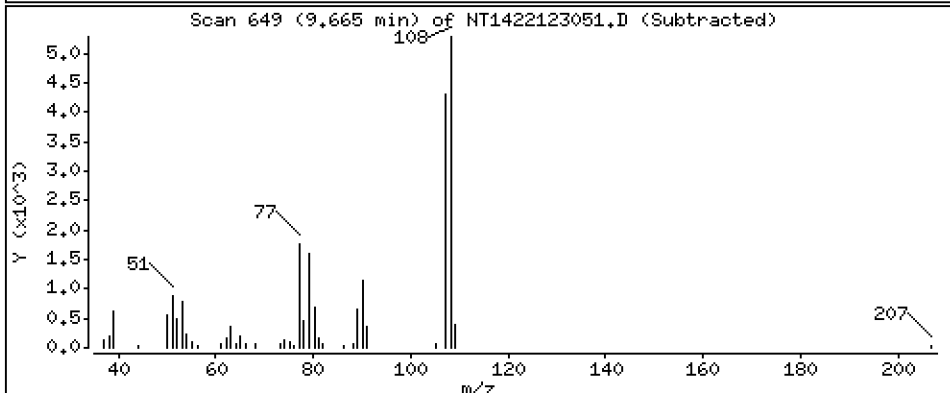
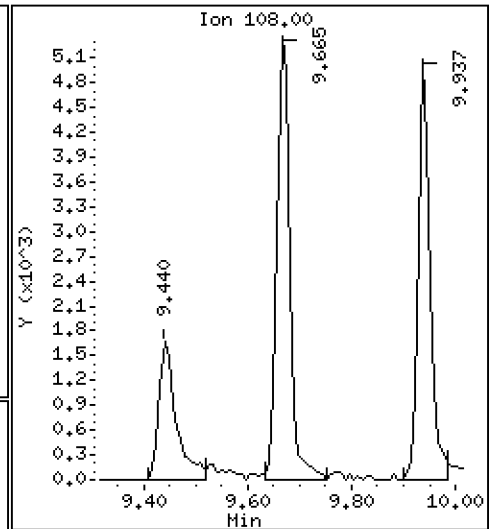
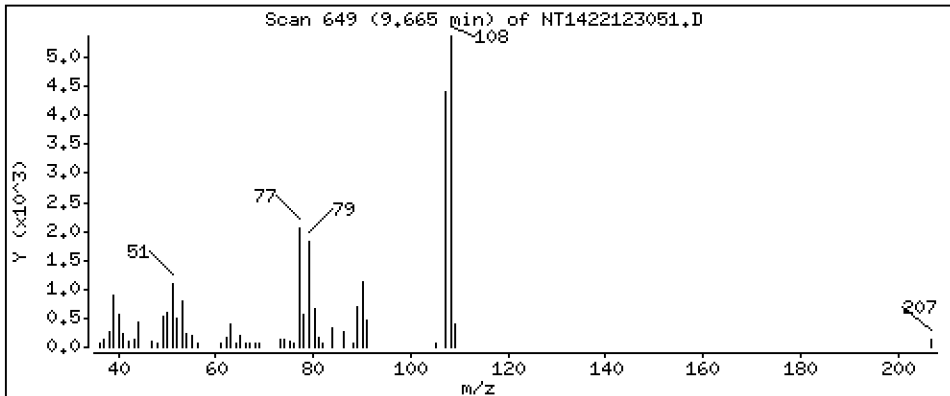
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.2341 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

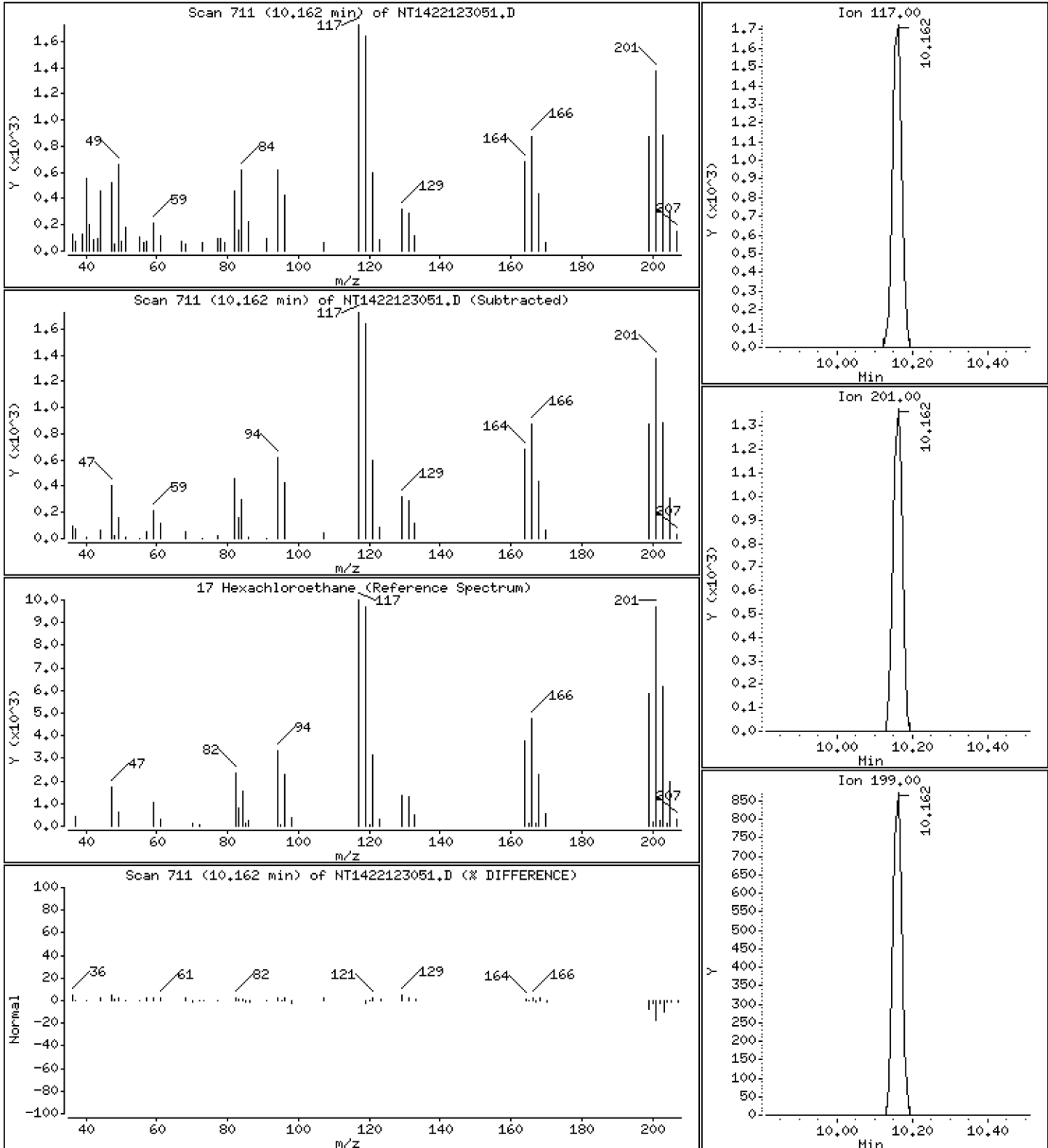
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1755 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

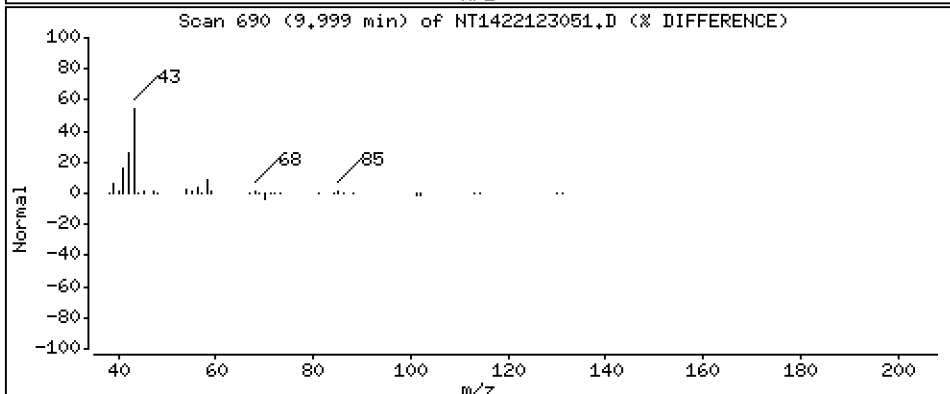
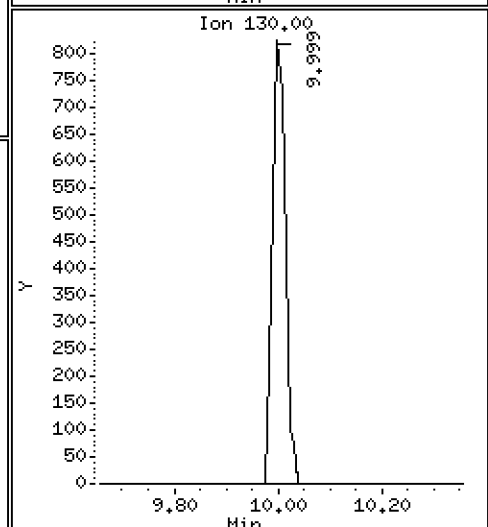
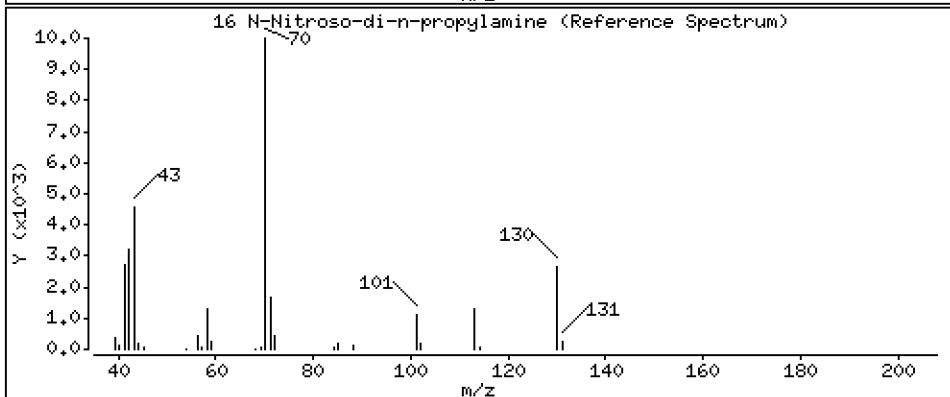
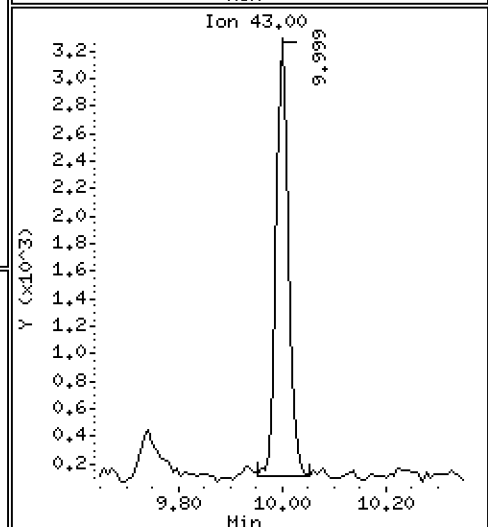
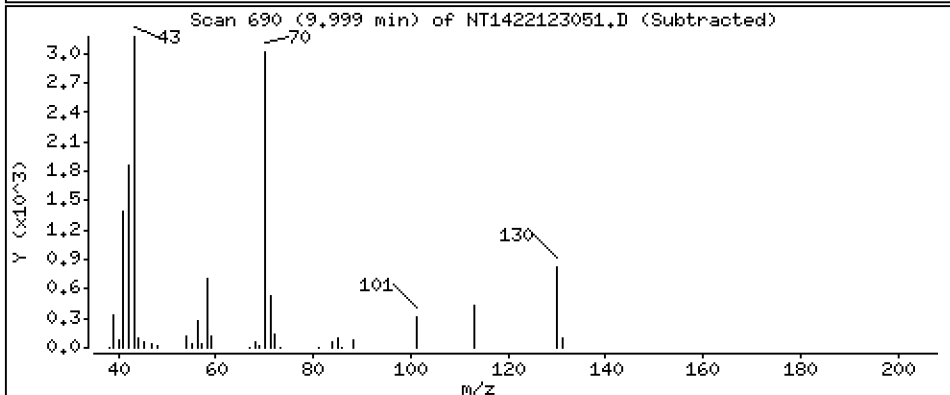
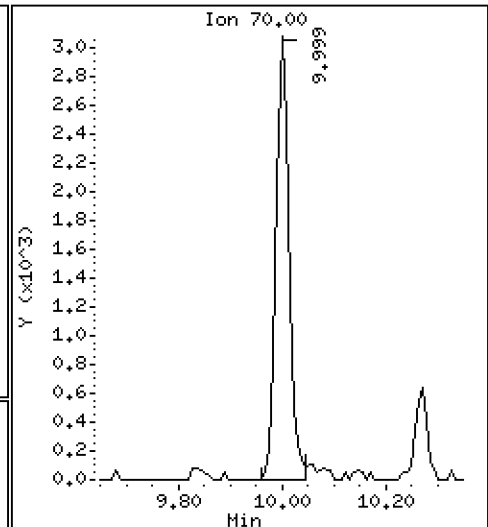
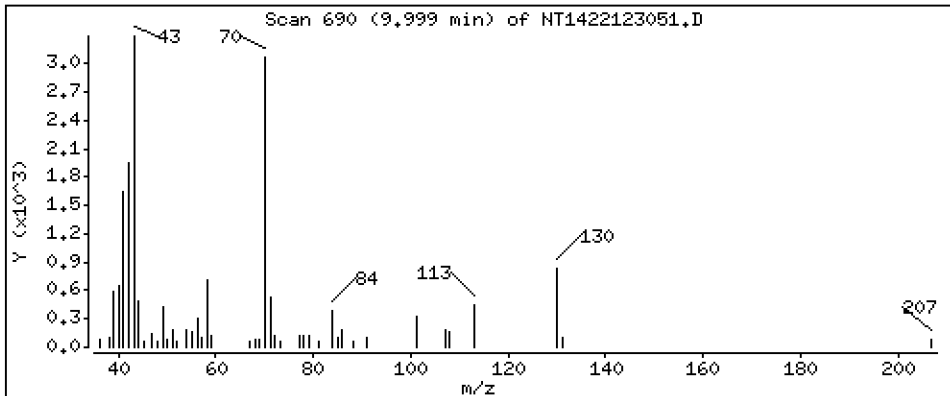
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,2208 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

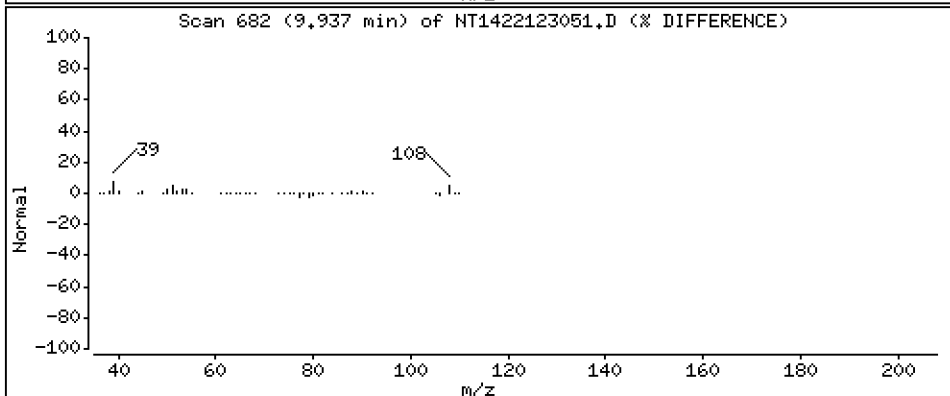
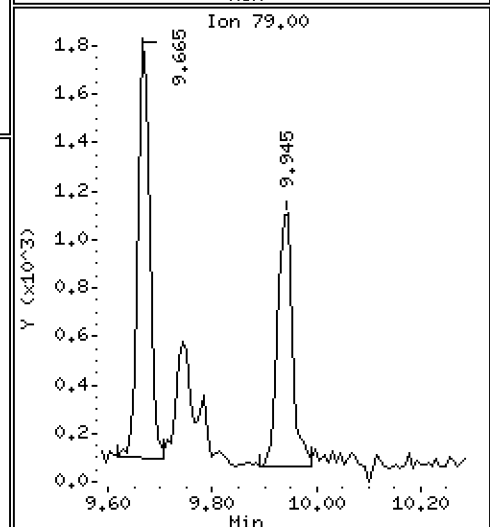
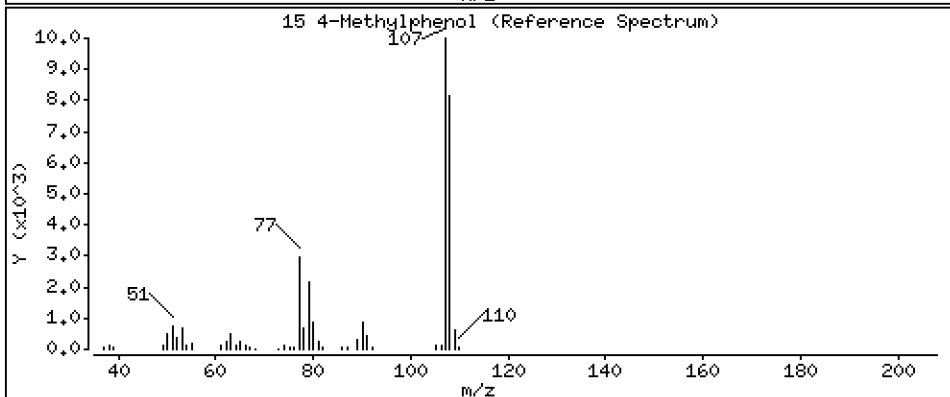
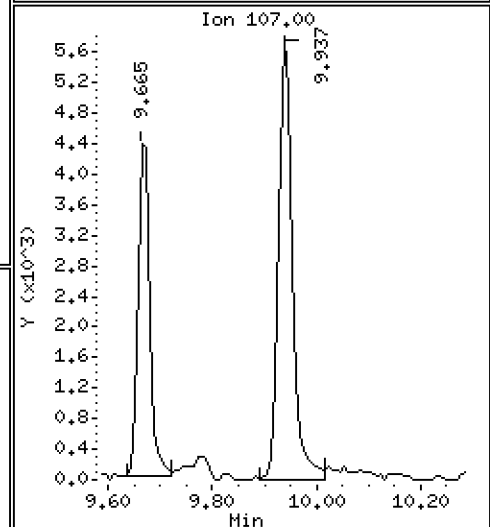
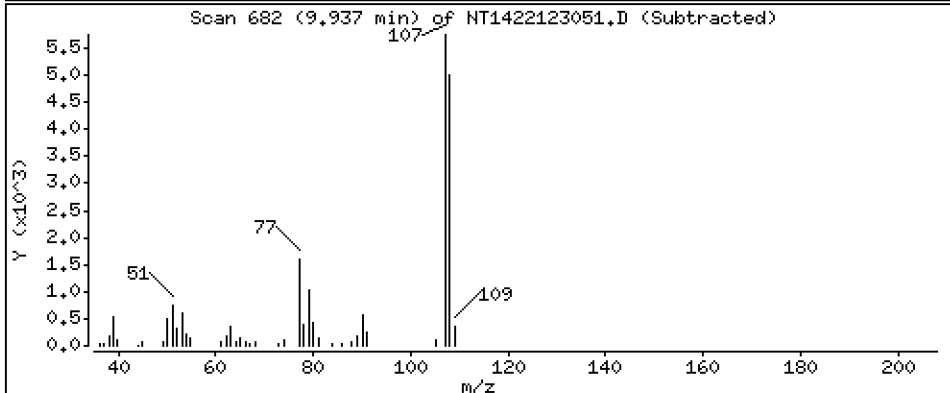
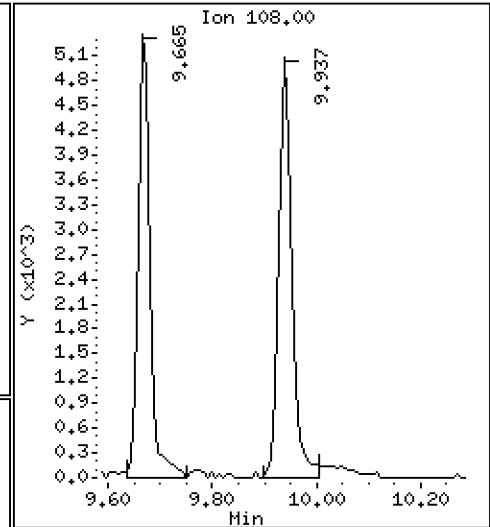
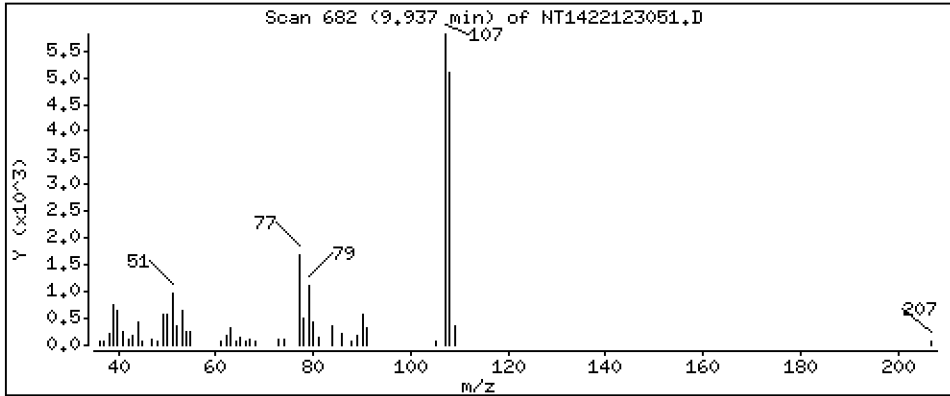
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,2121 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

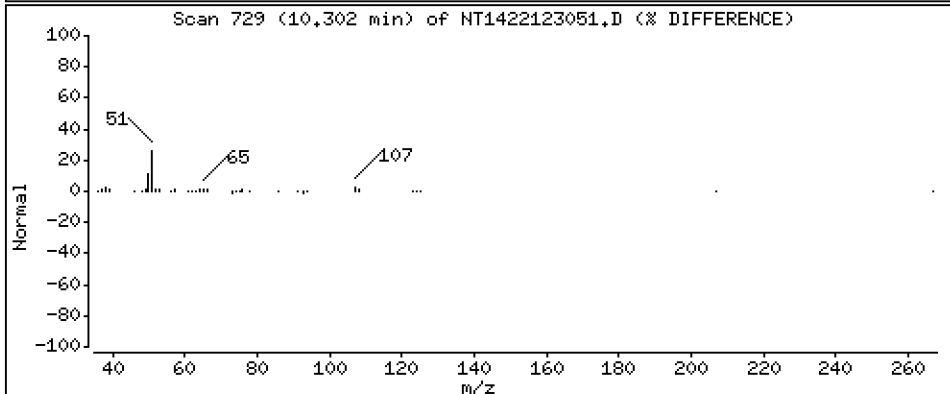
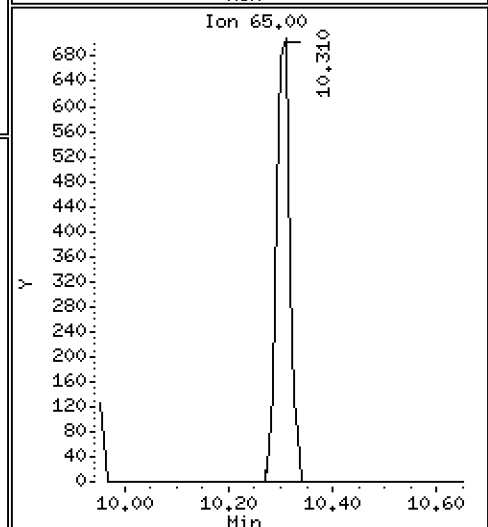
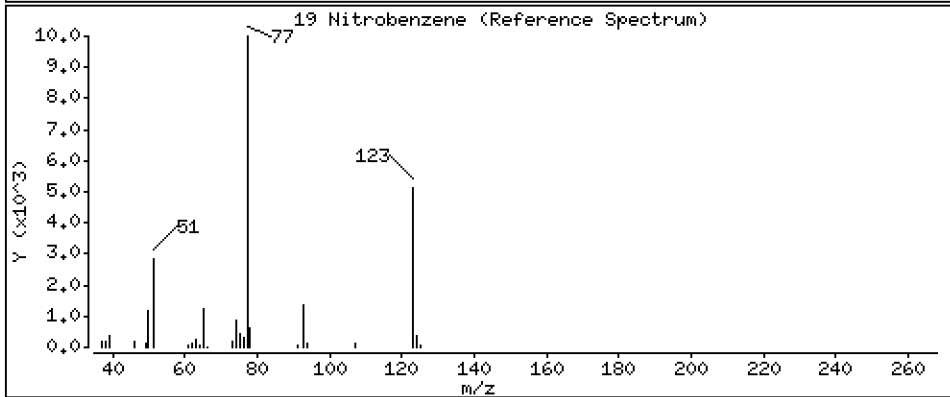
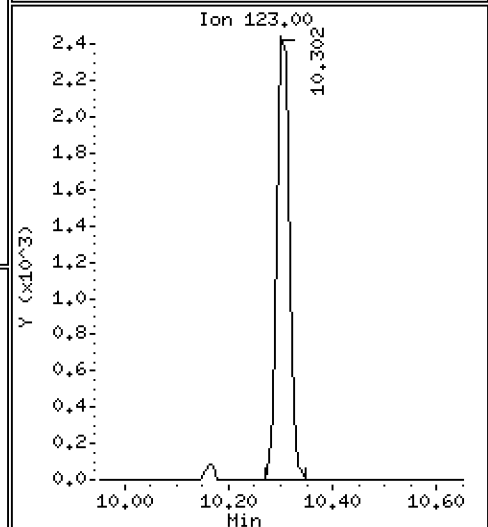
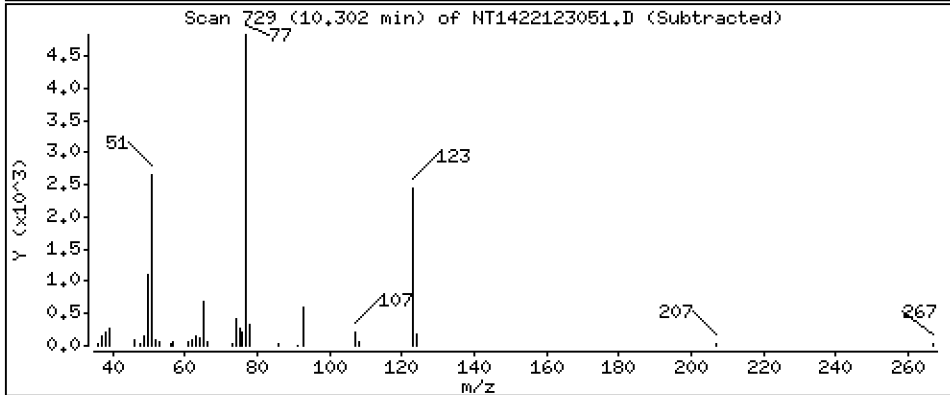
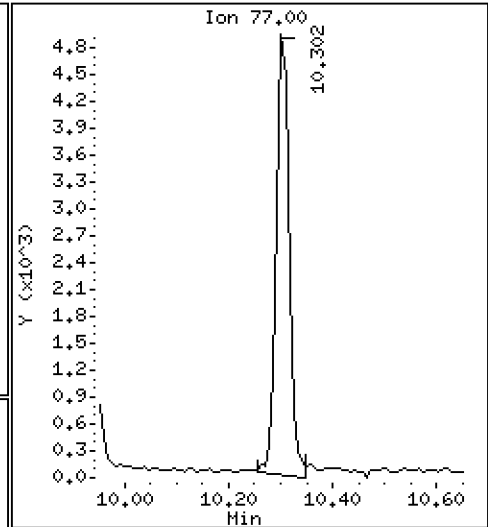
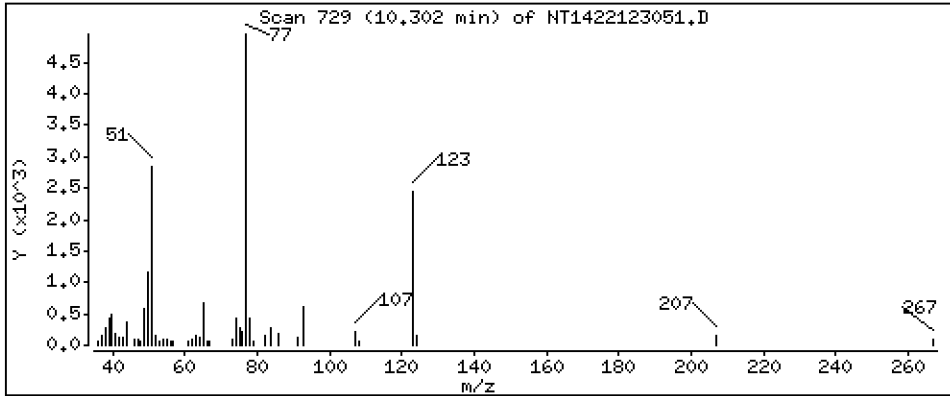
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,2254 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

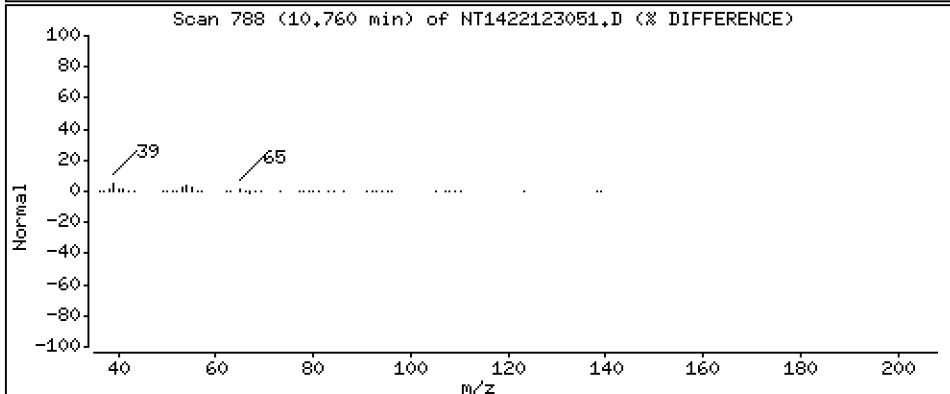
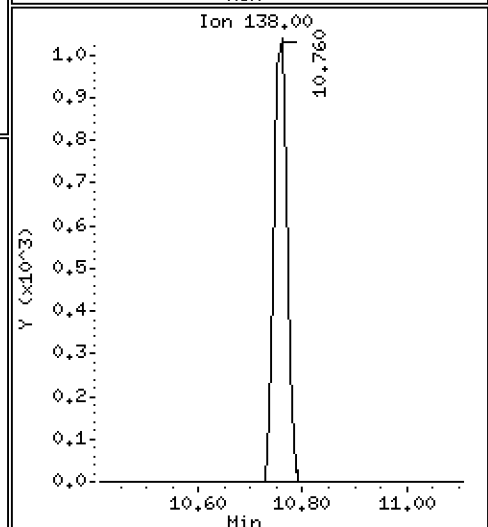
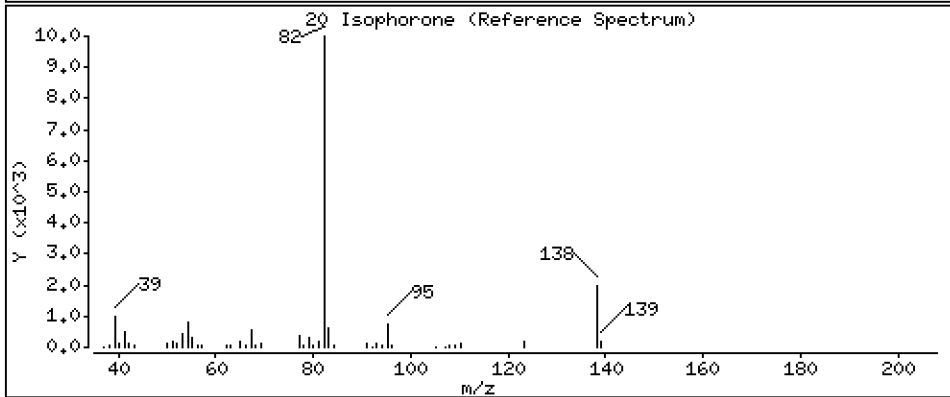
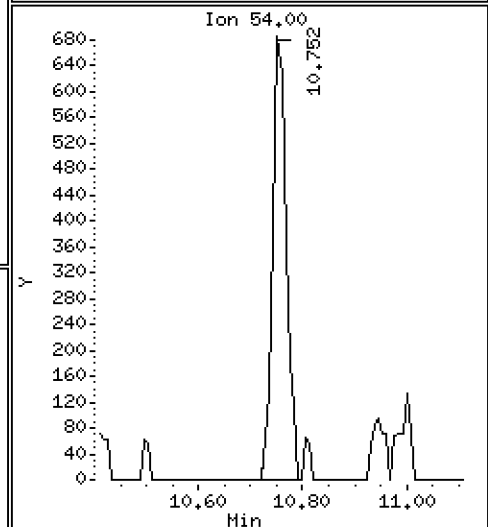
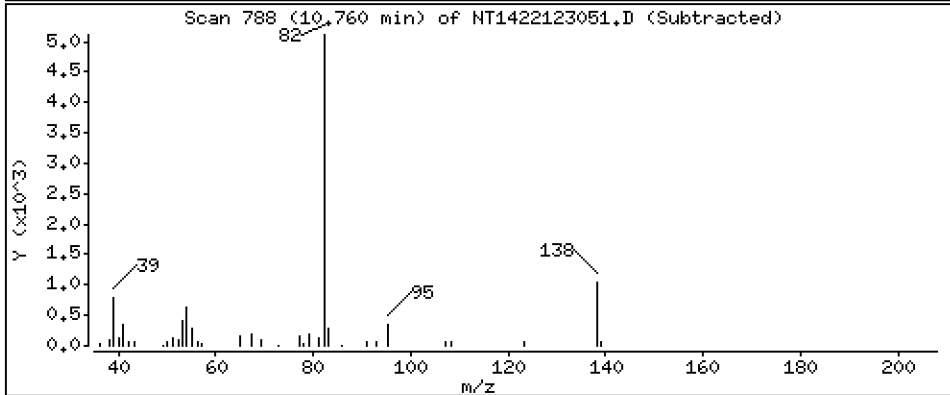
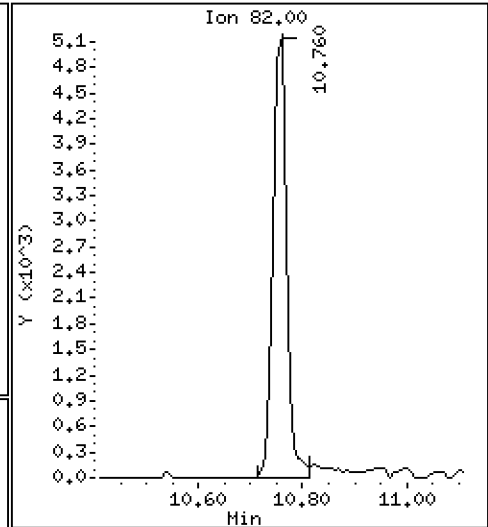
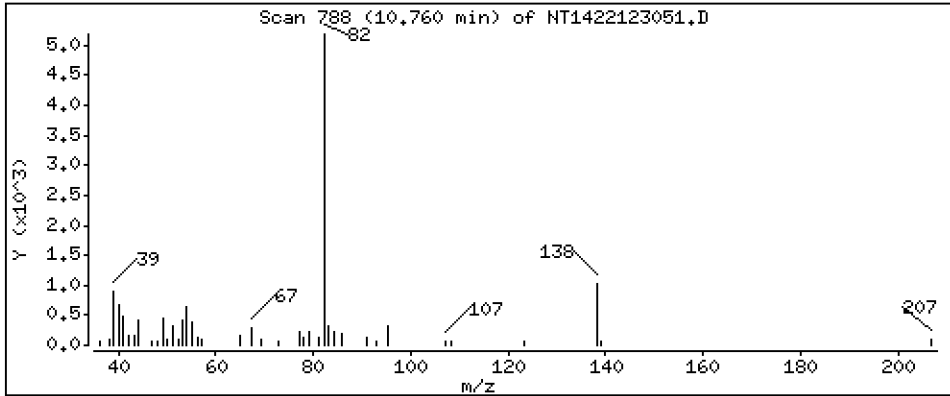
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,1965 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

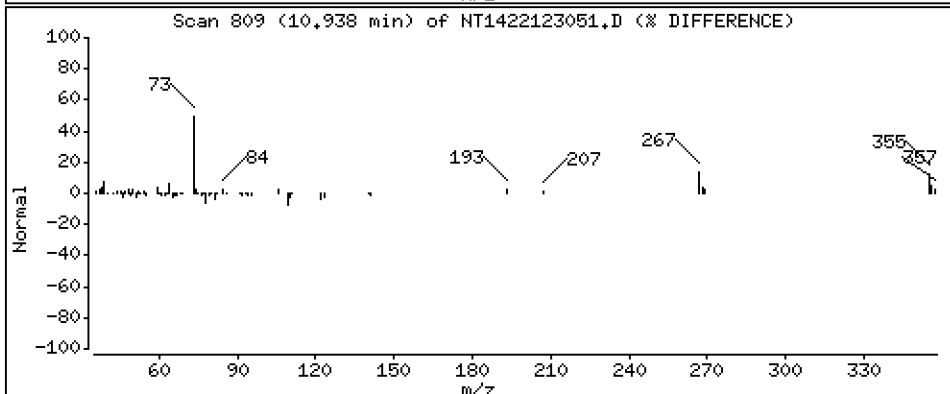
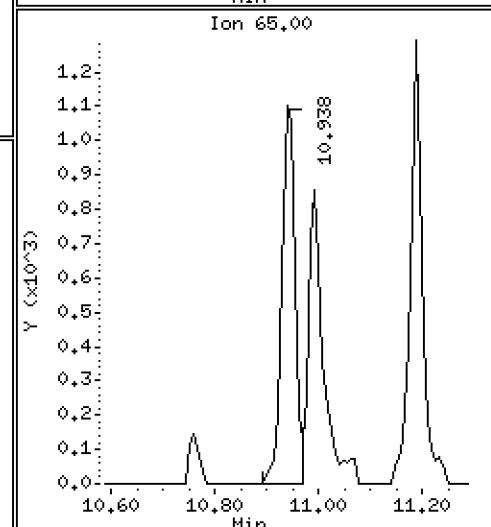
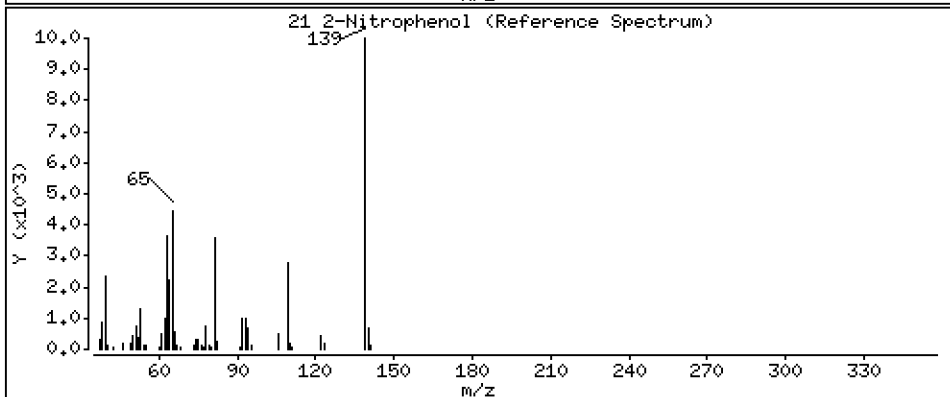
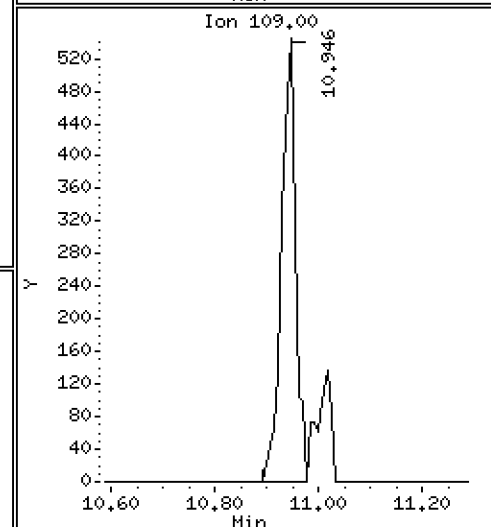
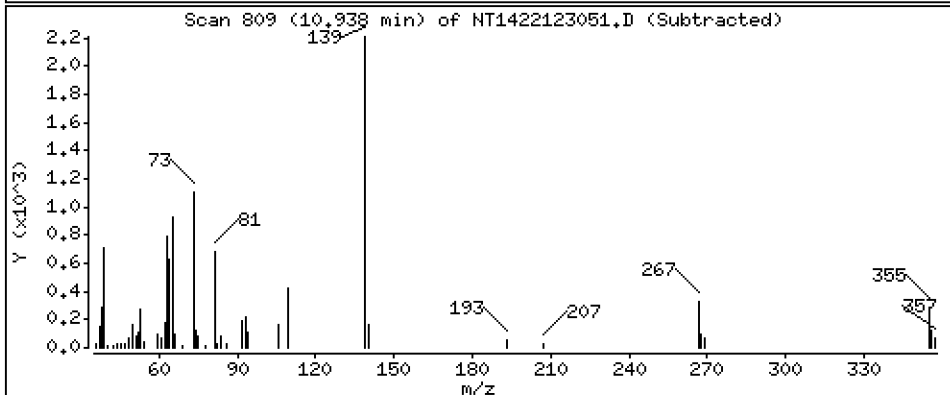
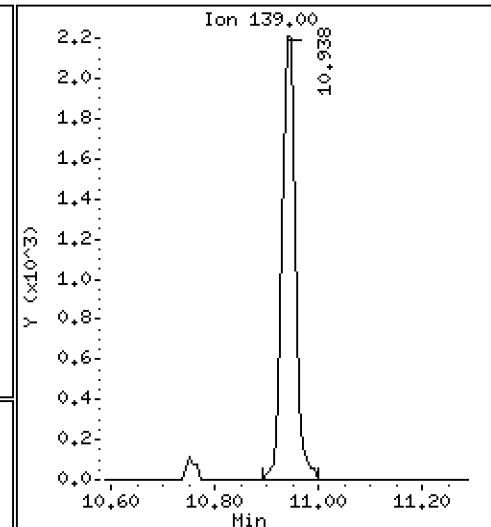
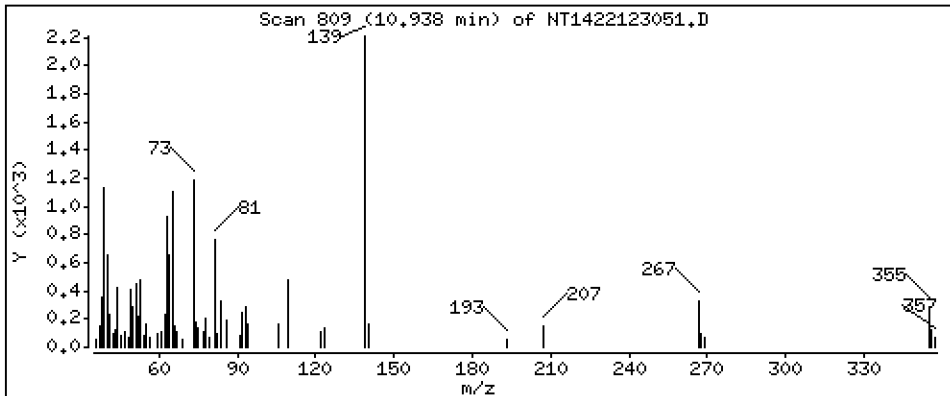
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2028 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

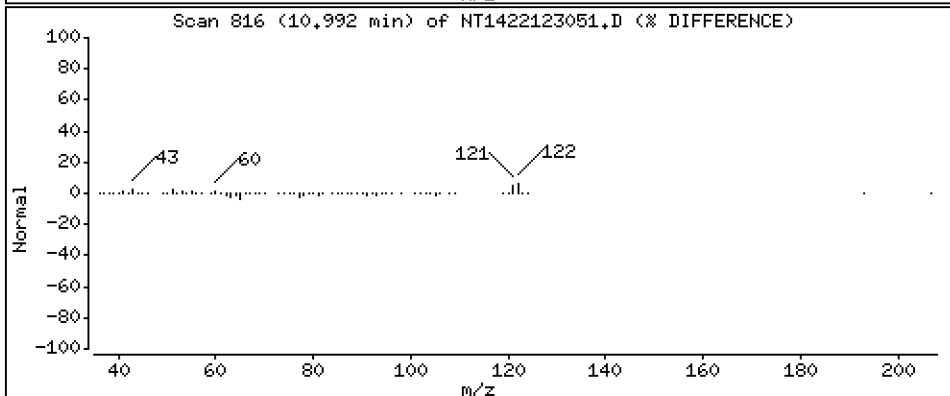
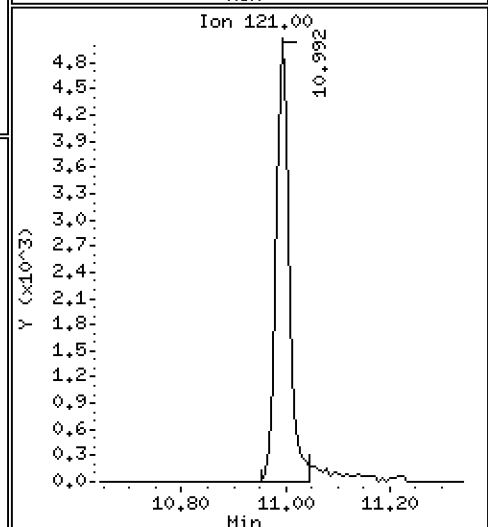
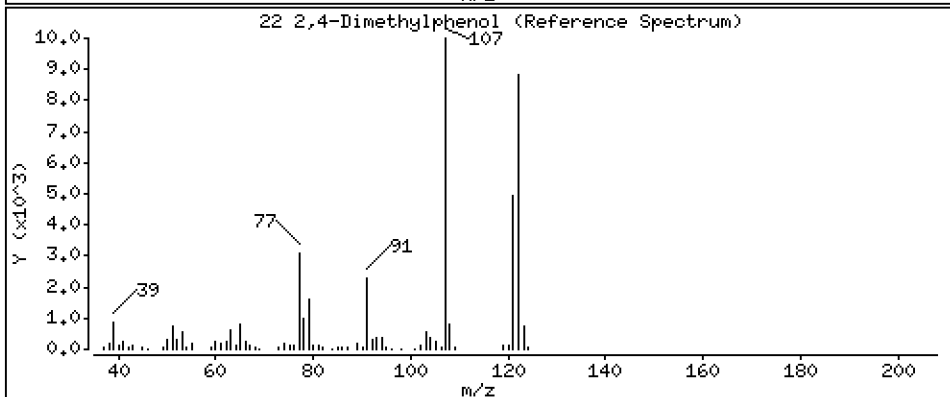
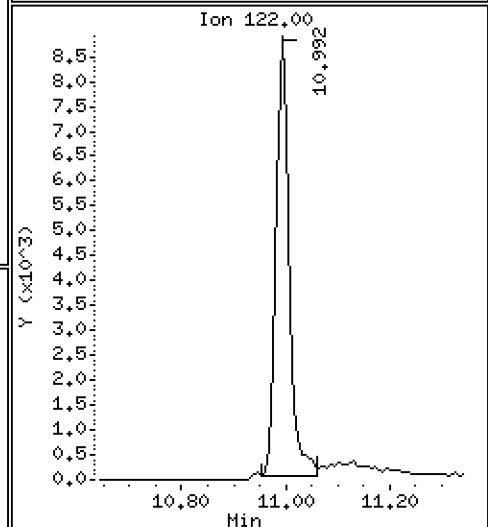
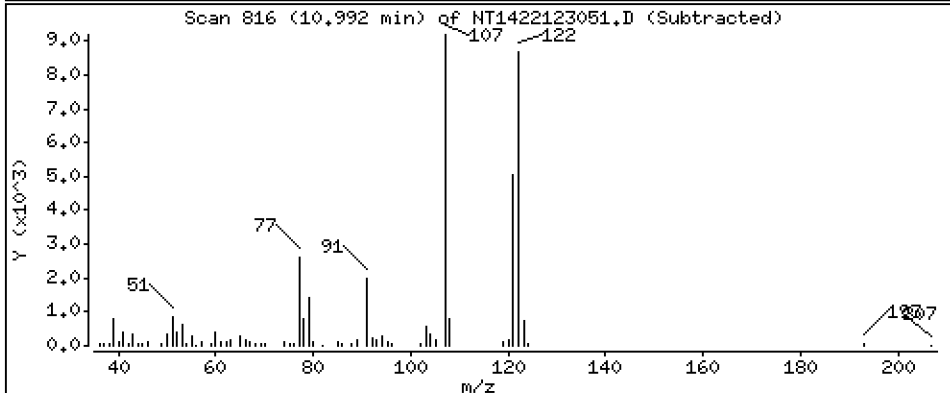
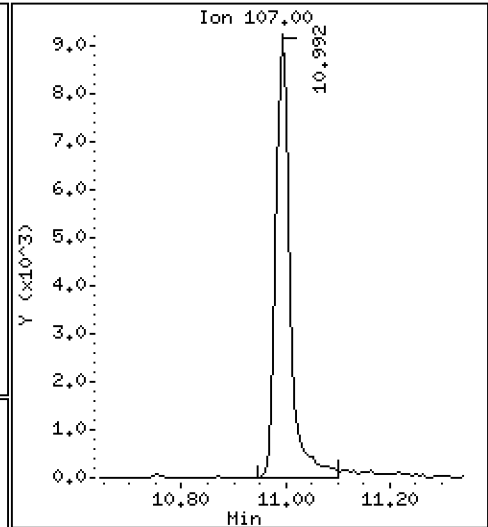
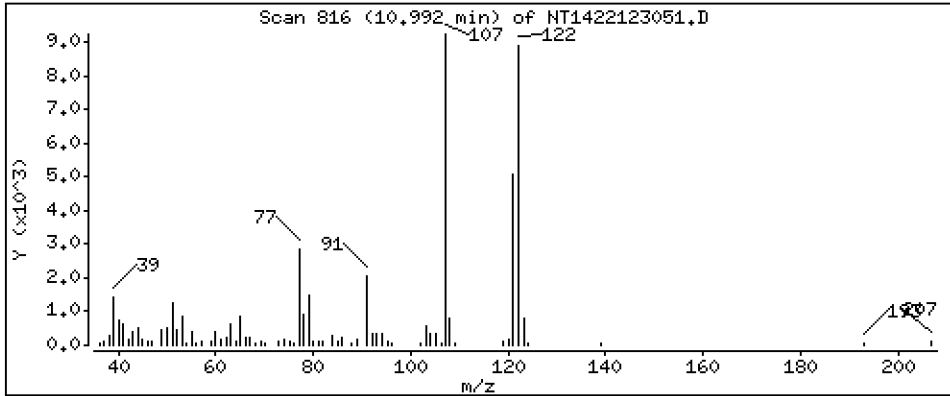
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4556 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

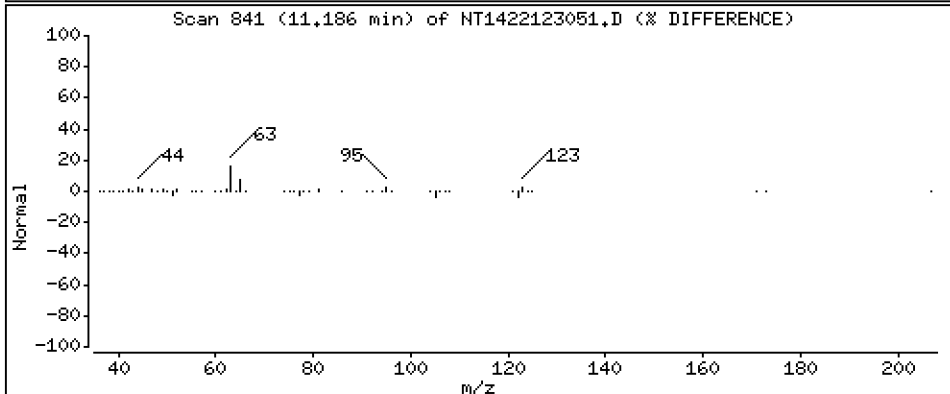
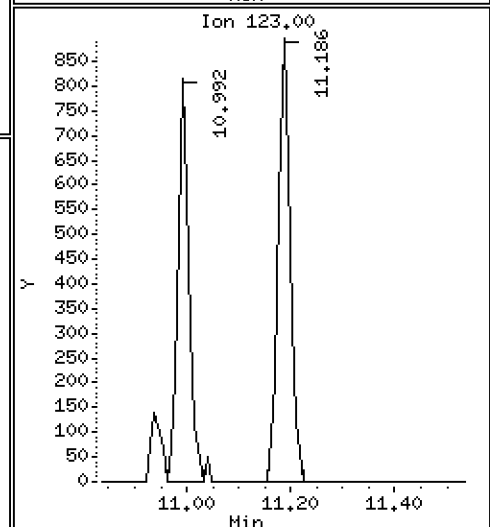
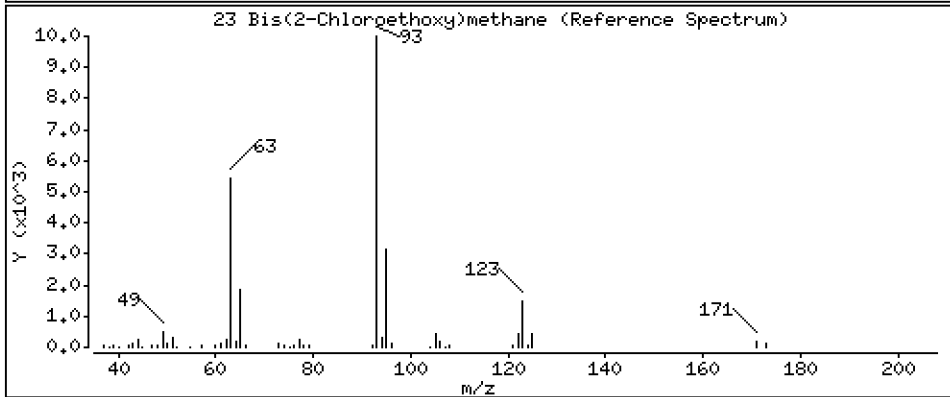
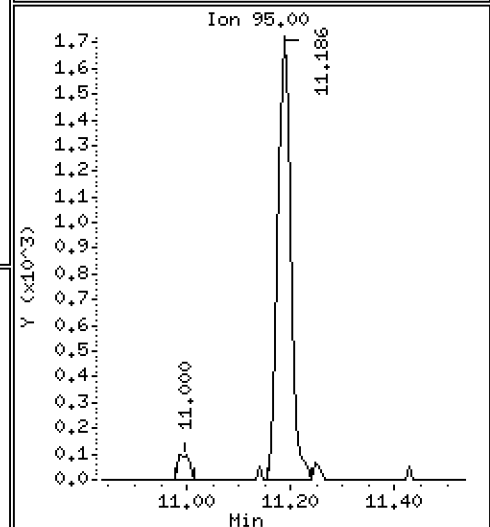
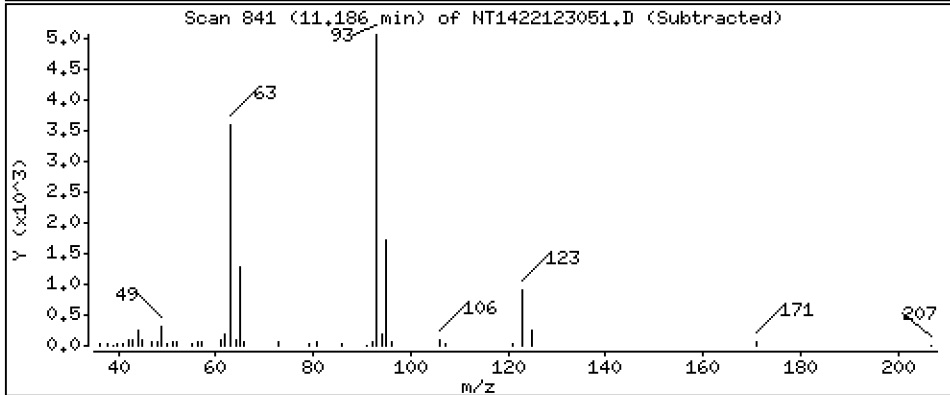
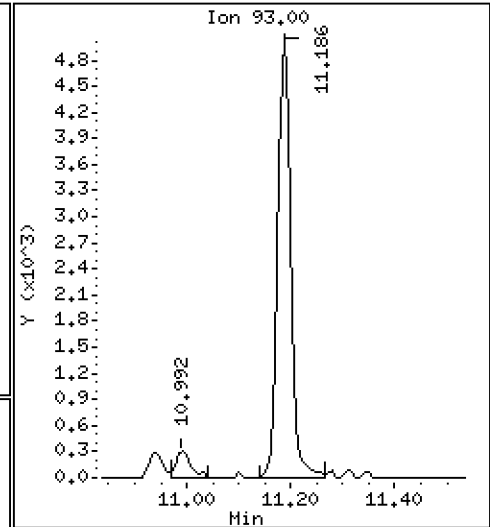
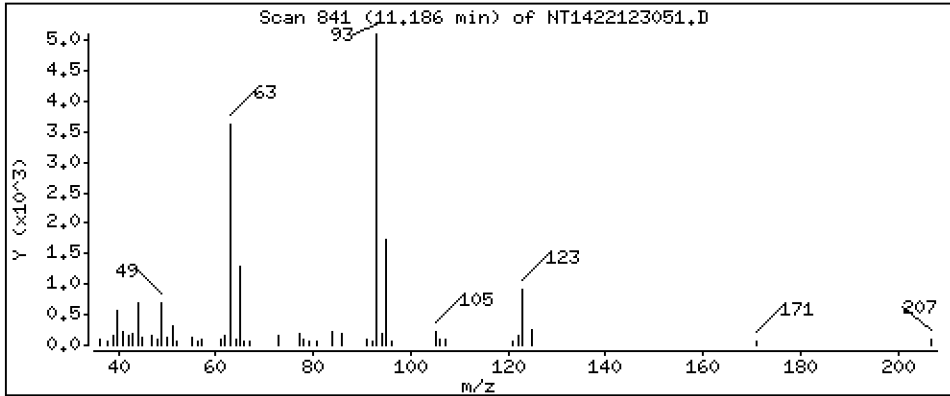
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2358 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

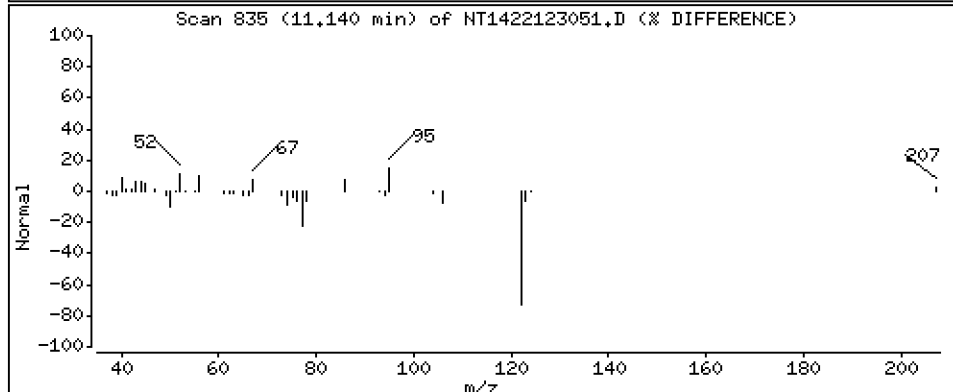
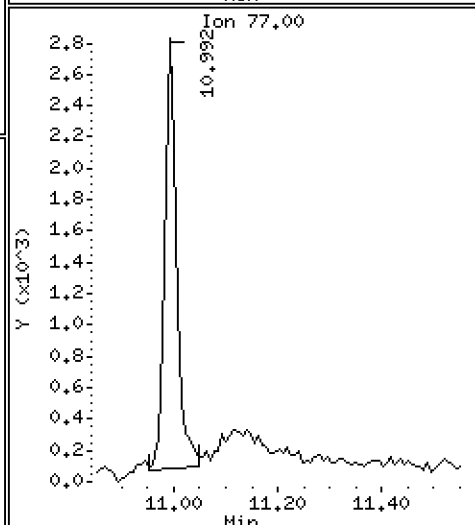
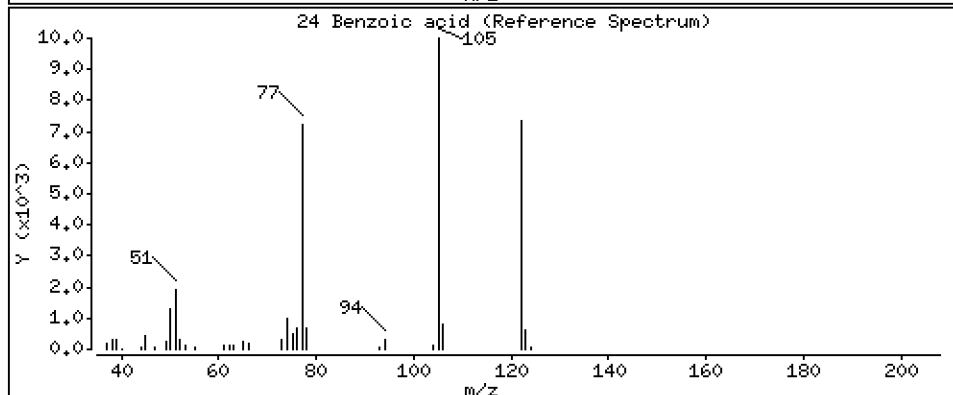
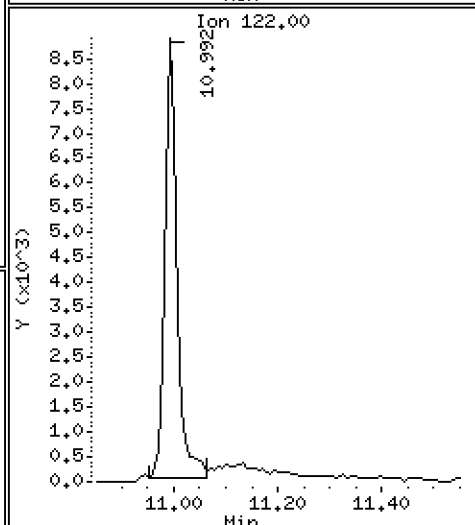
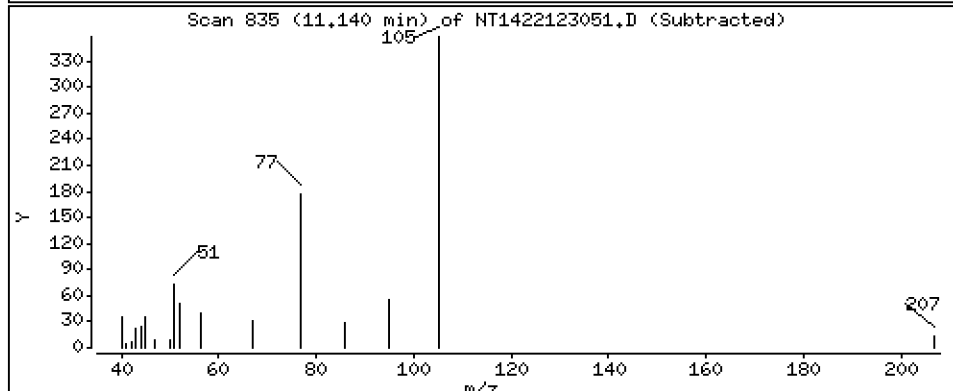
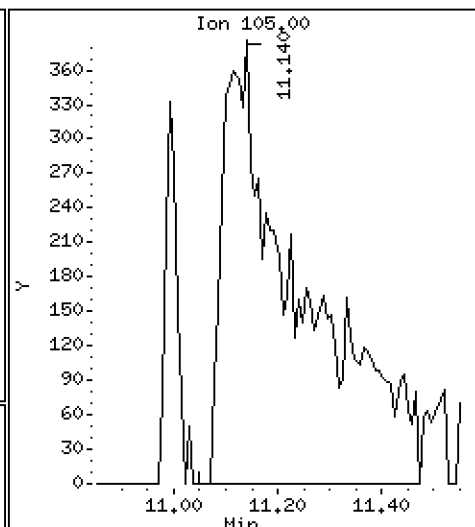
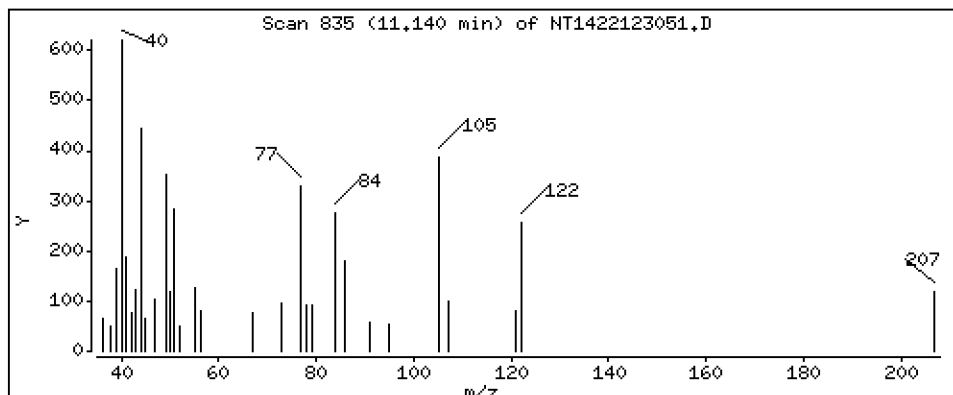
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.1748 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

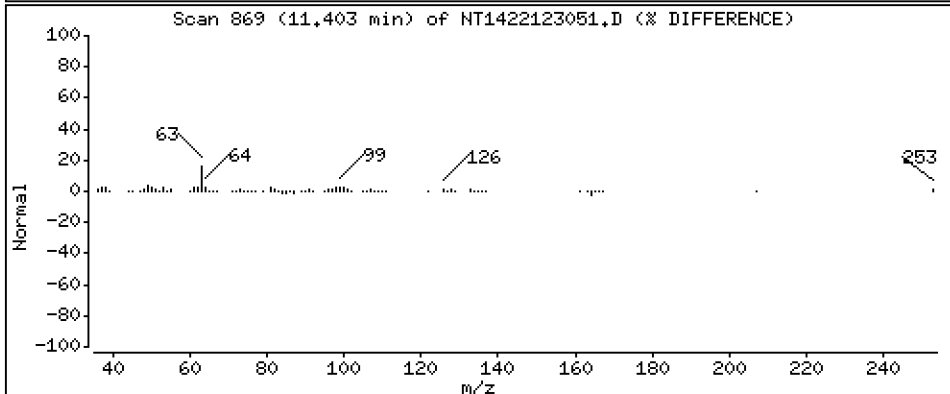
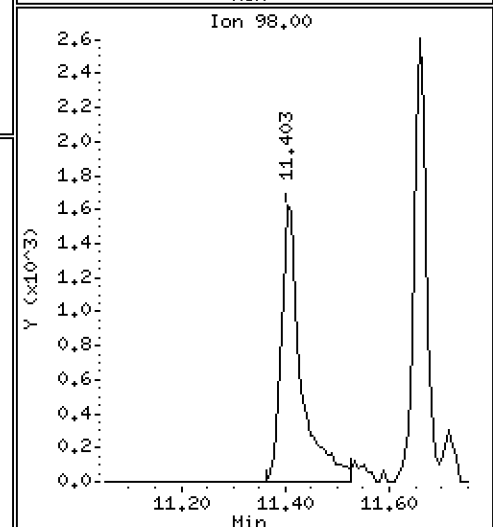
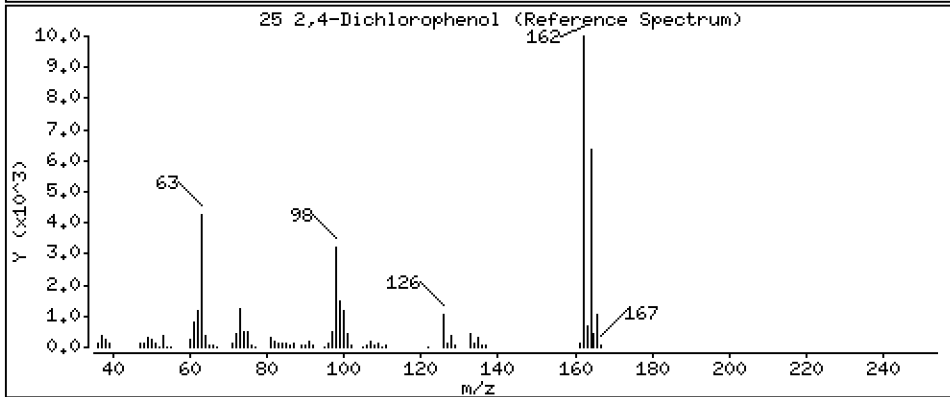
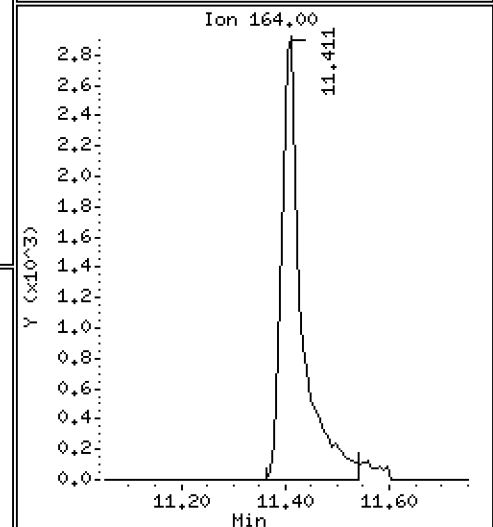
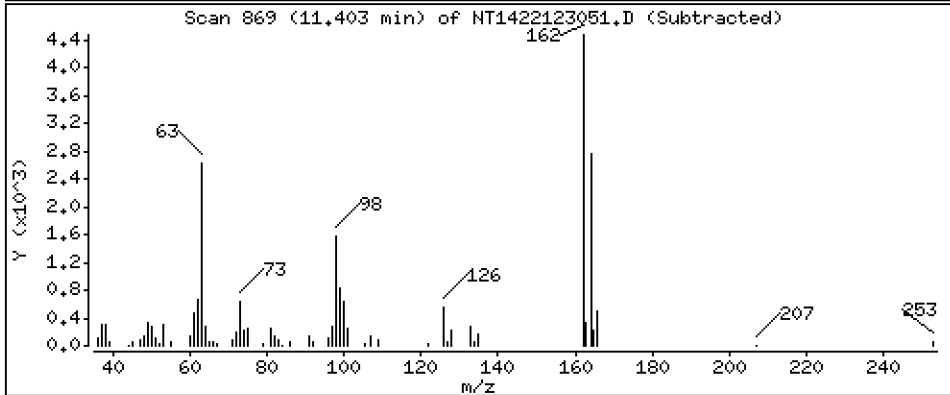
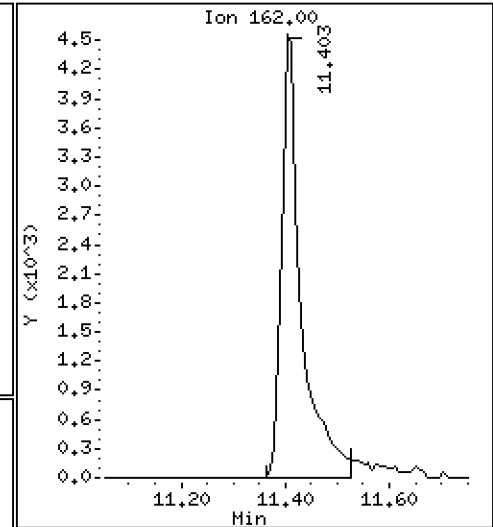
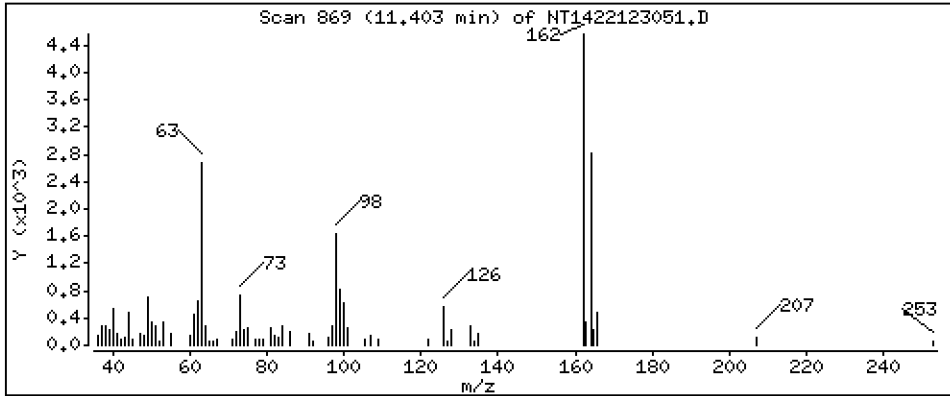
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4132 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

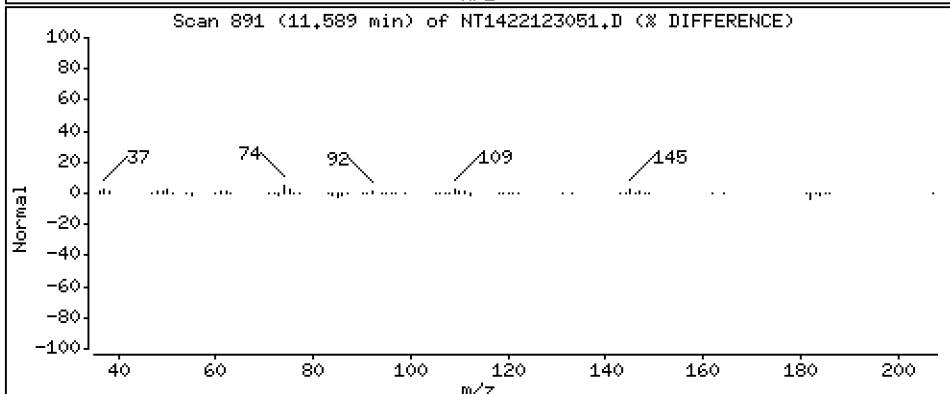
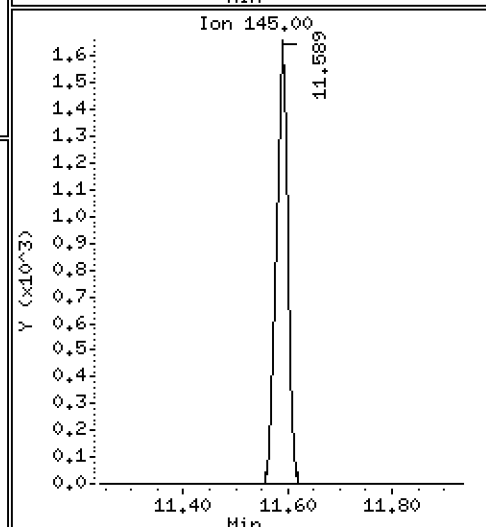
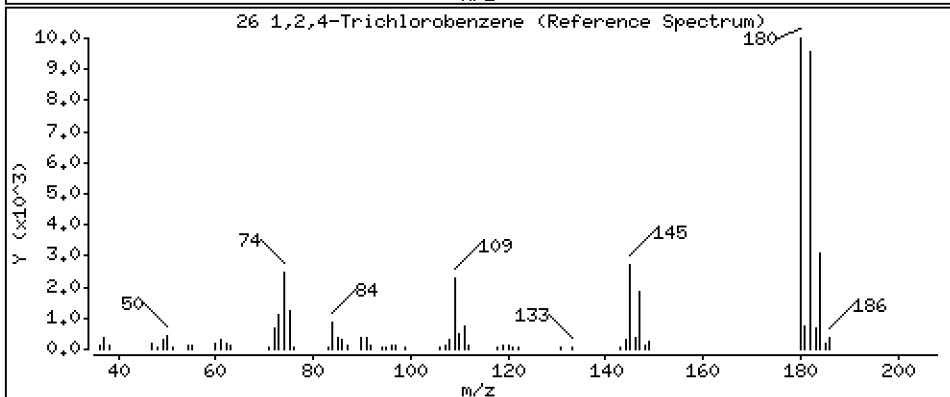
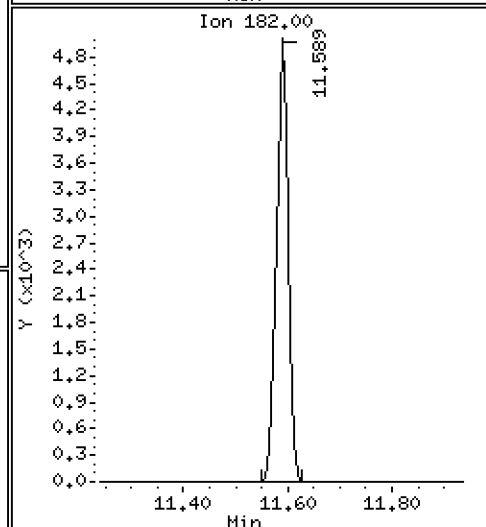
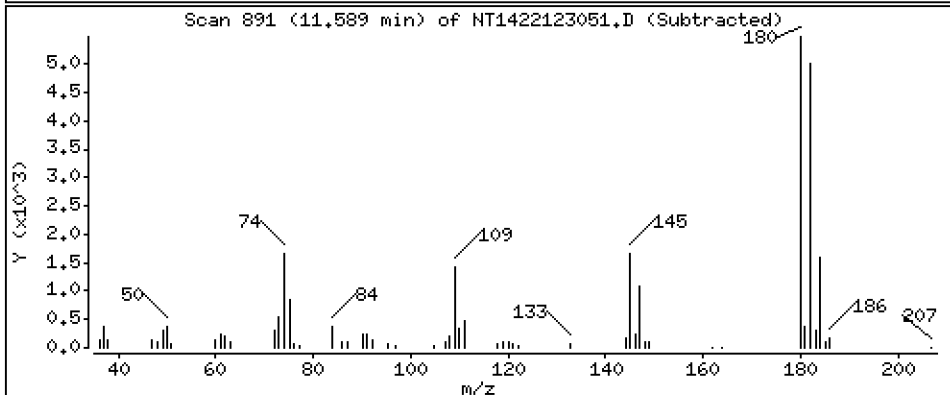
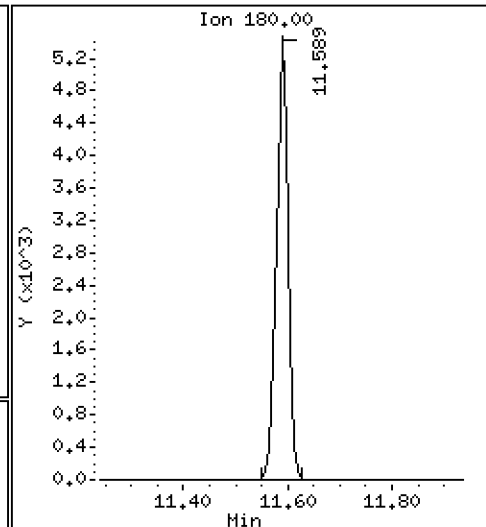
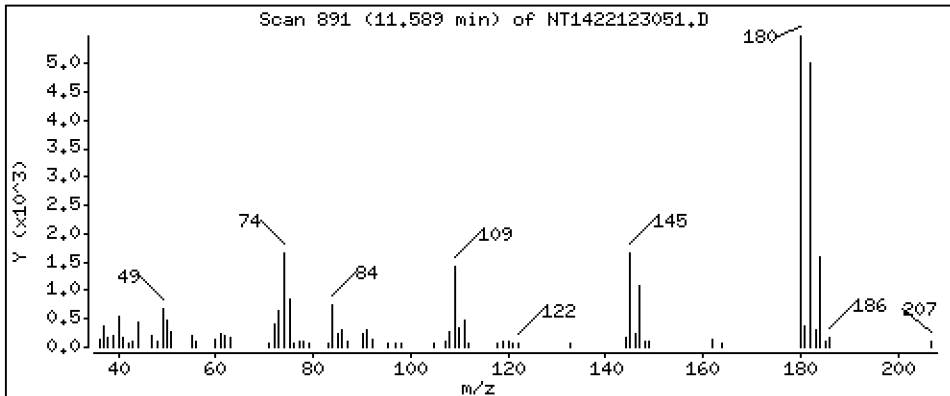
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2422 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

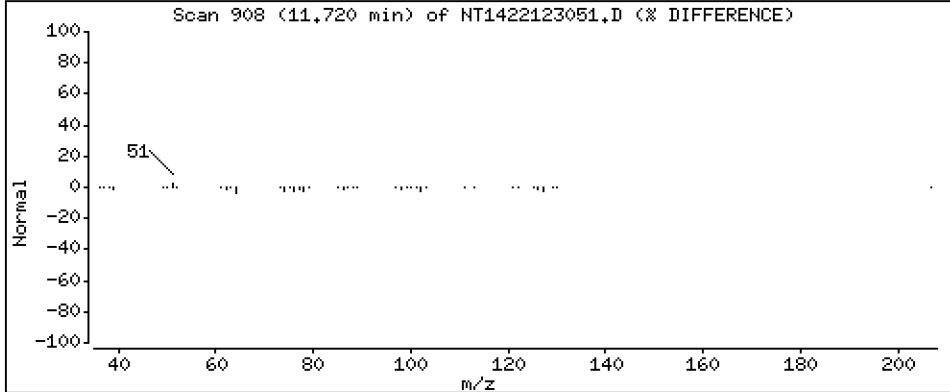
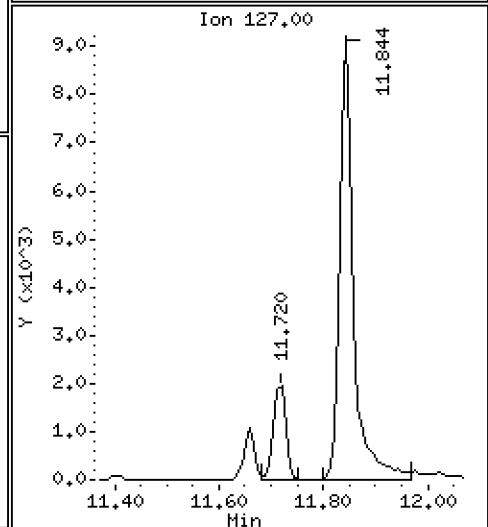
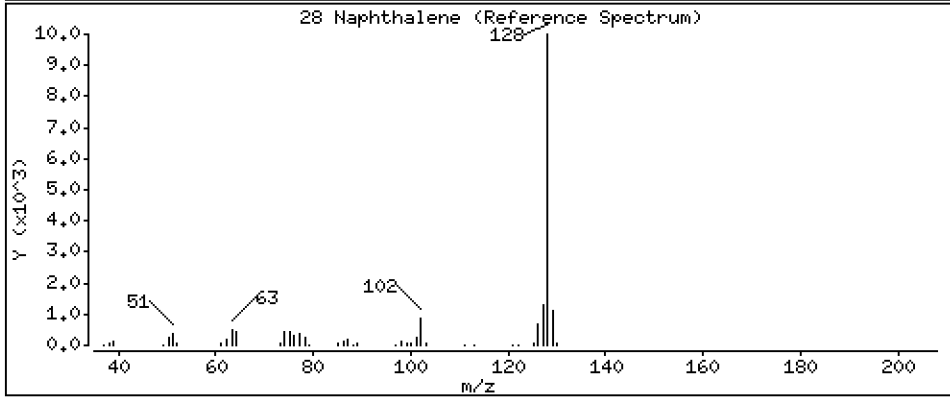
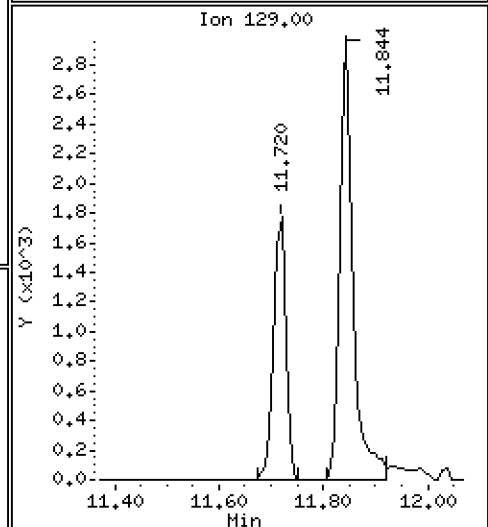
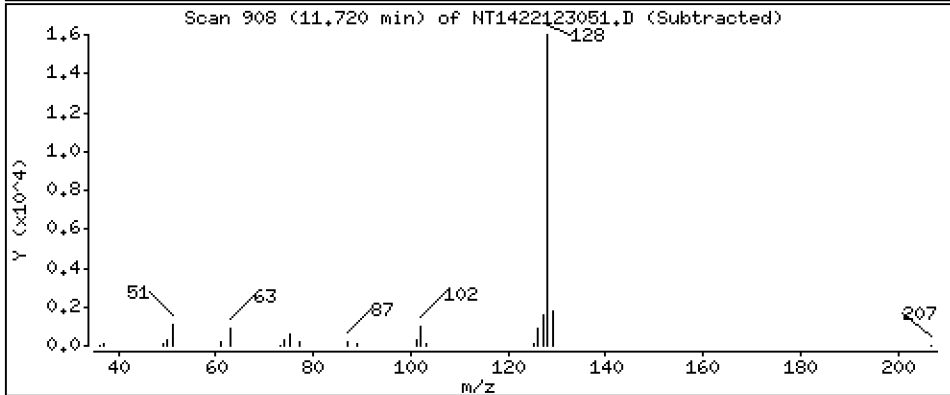
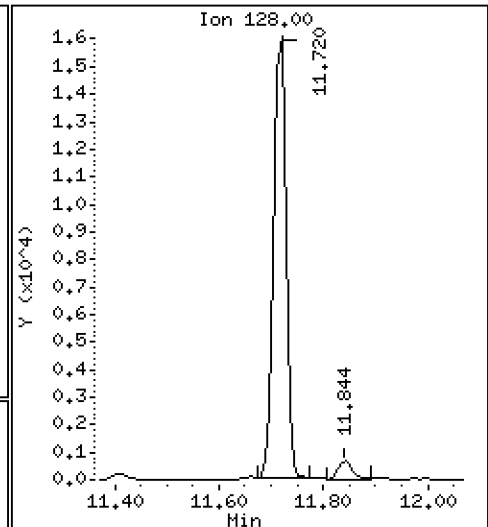
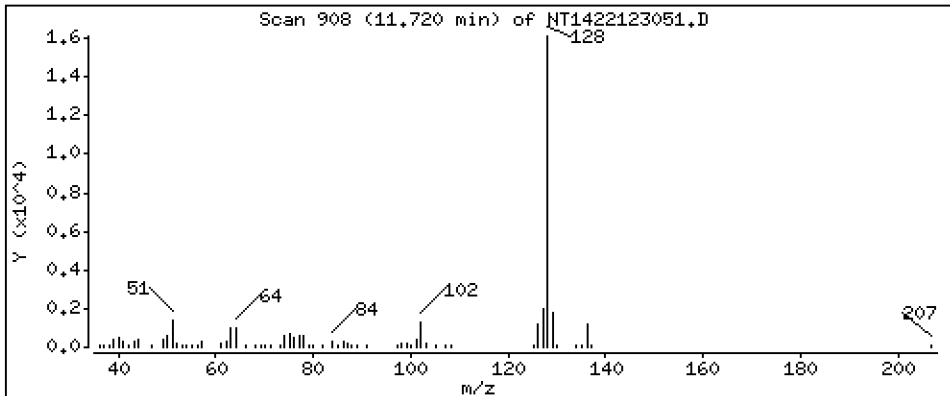
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.2377 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

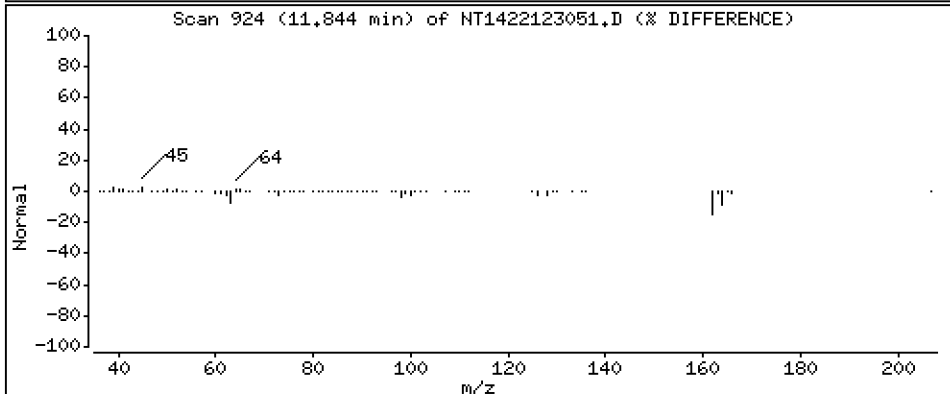
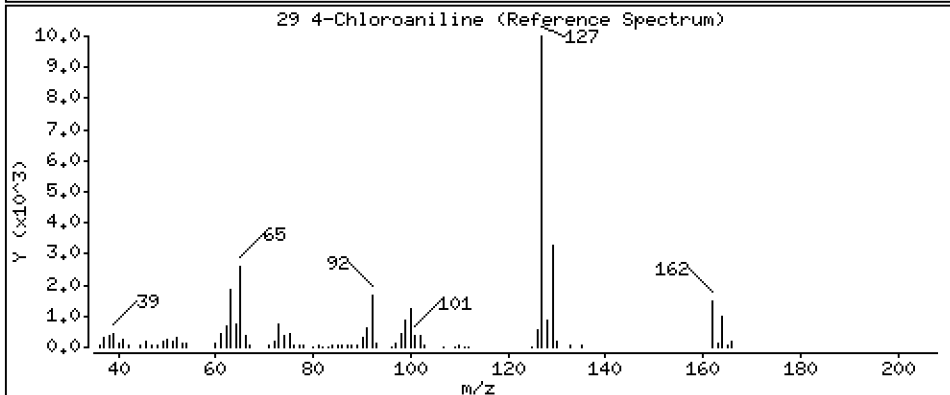
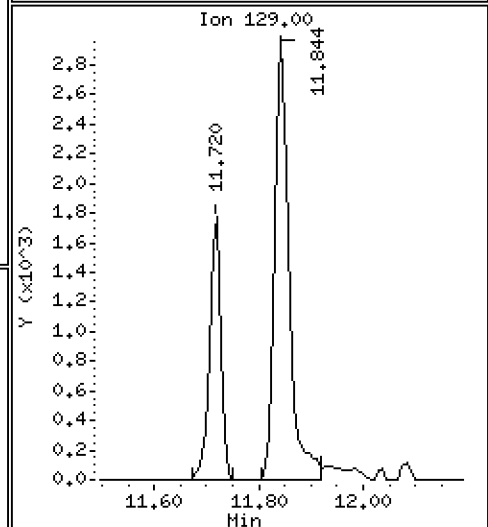
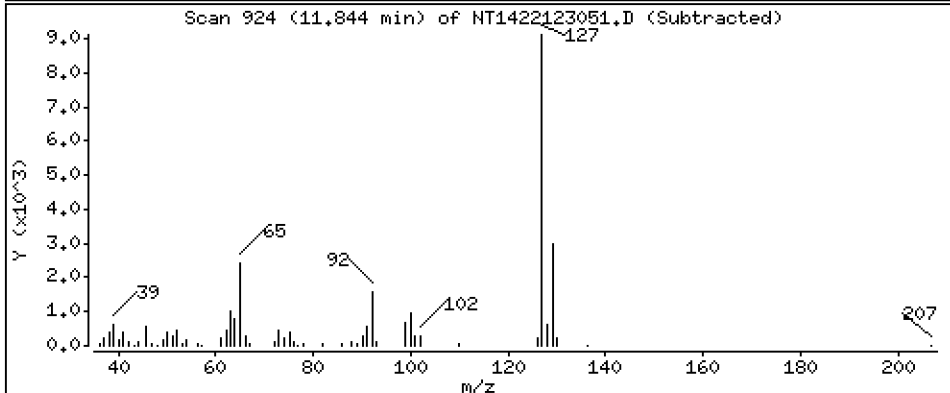
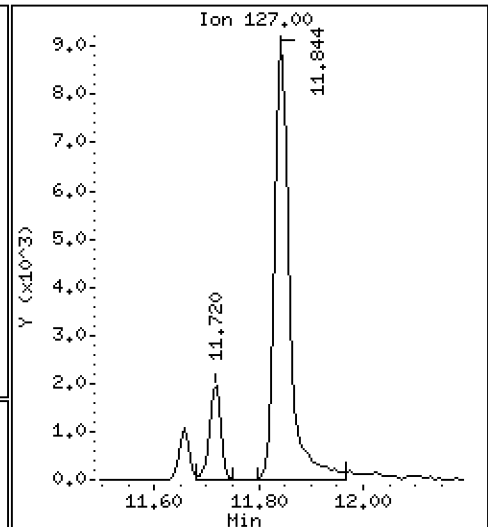
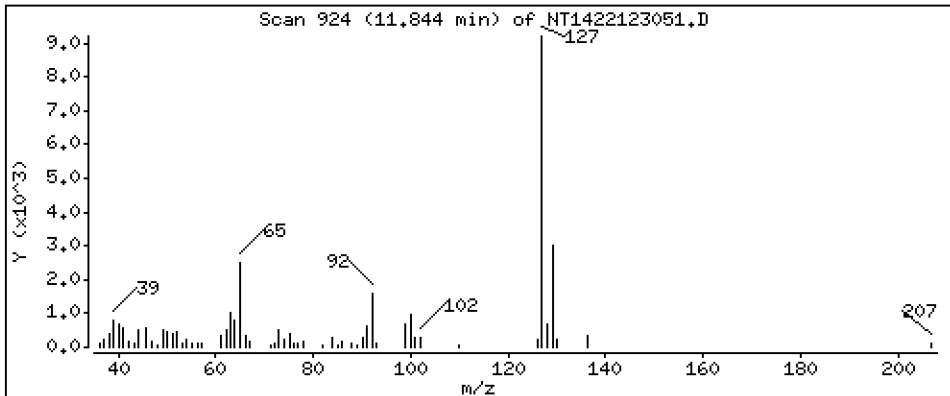
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,4058 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

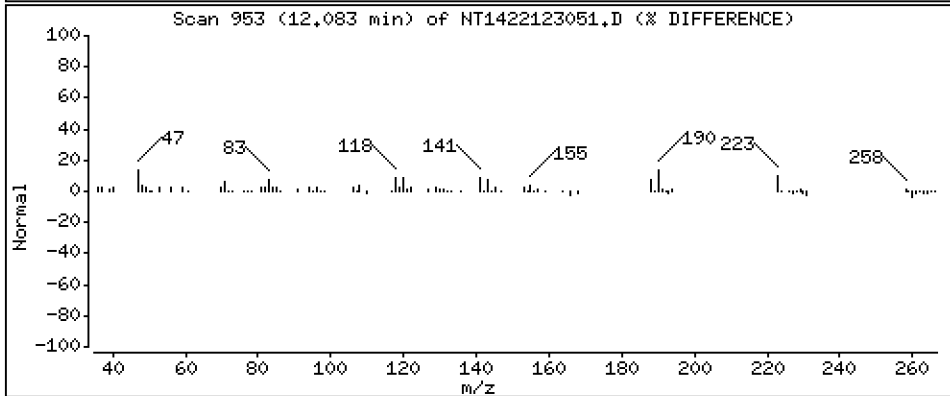
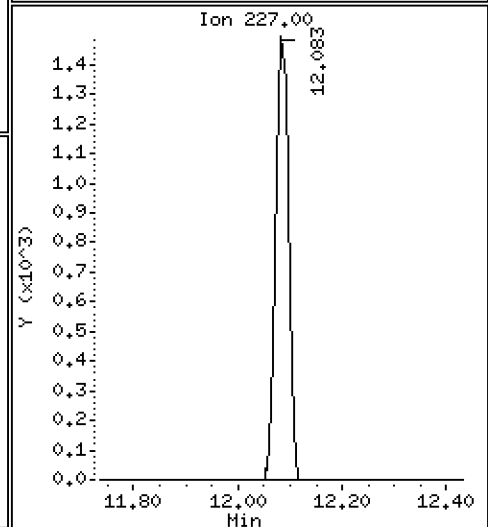
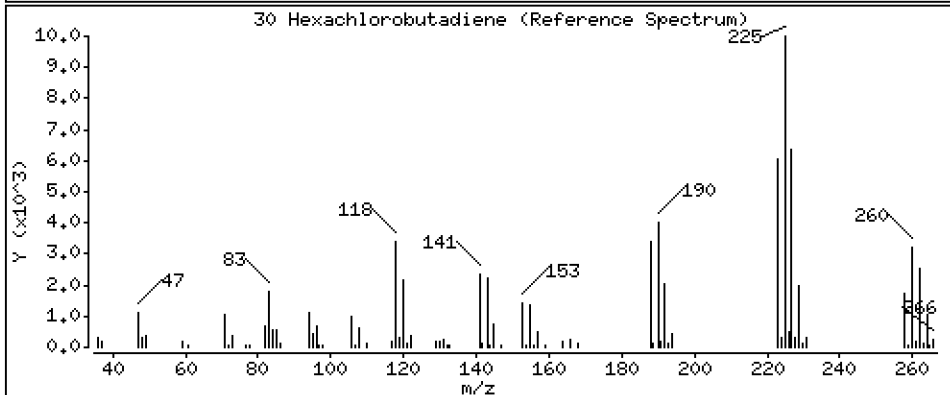
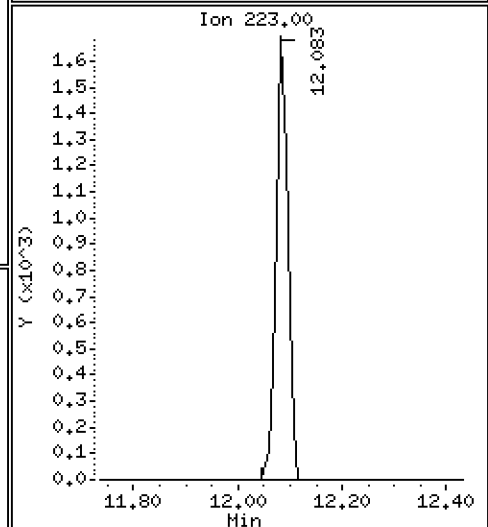
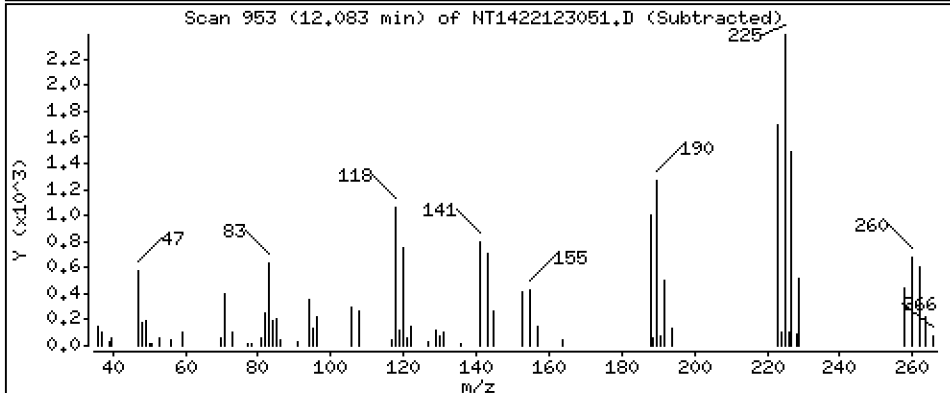
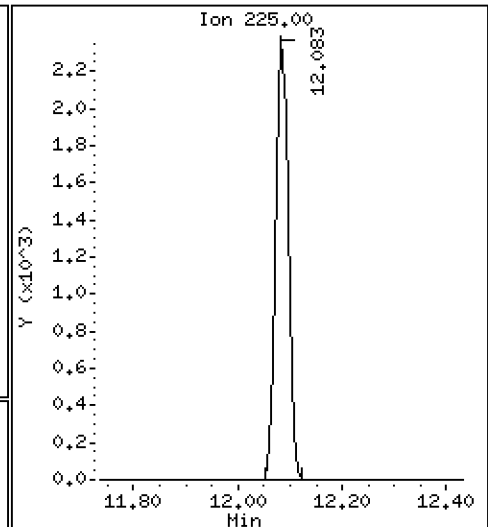
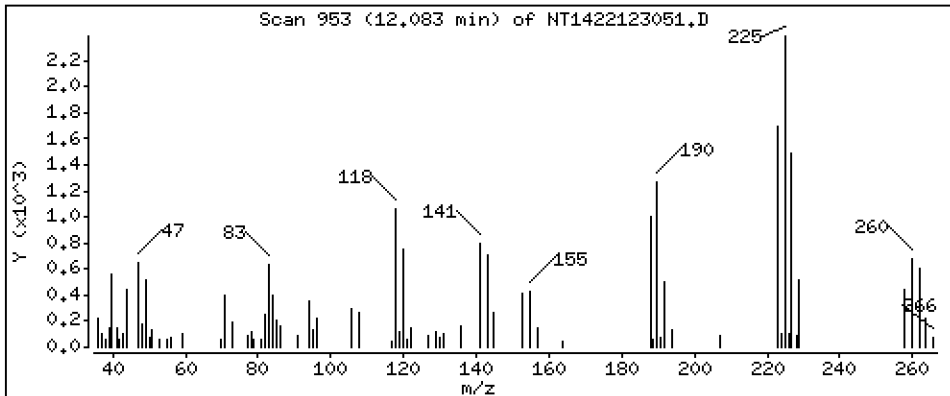
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2223 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

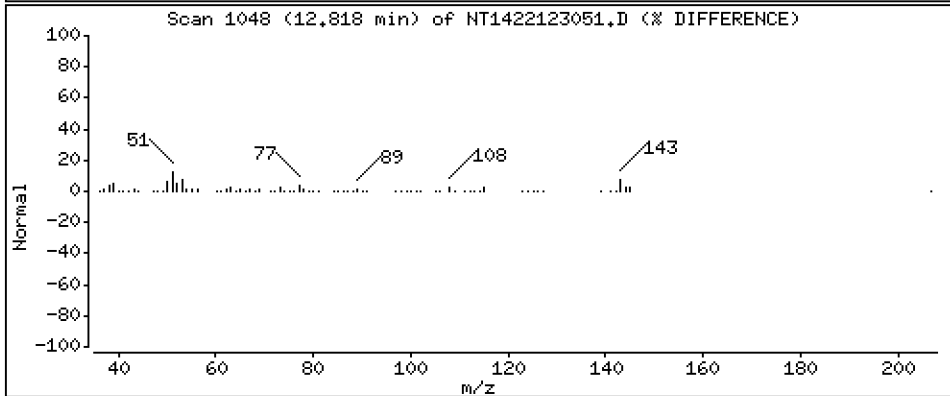
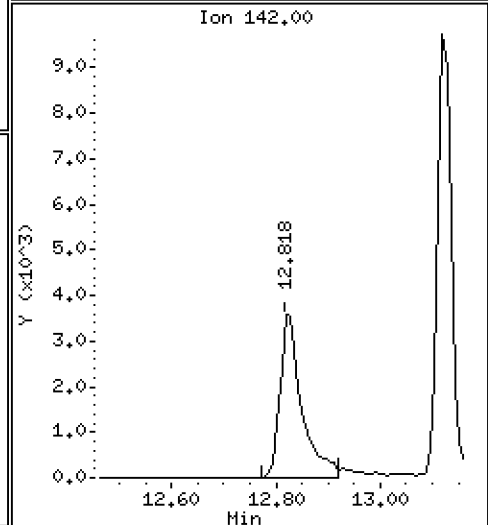
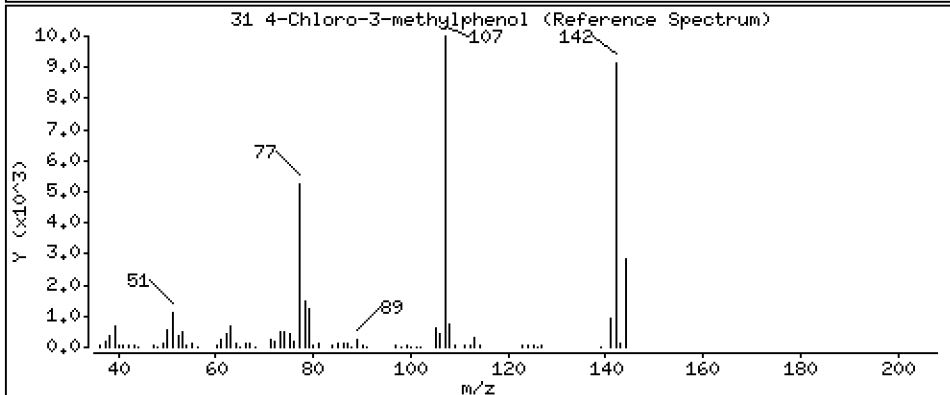
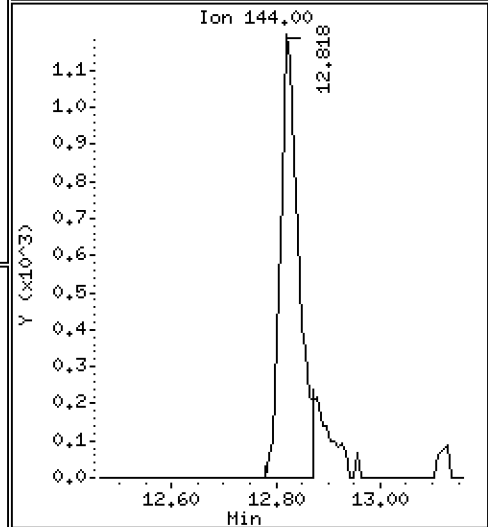
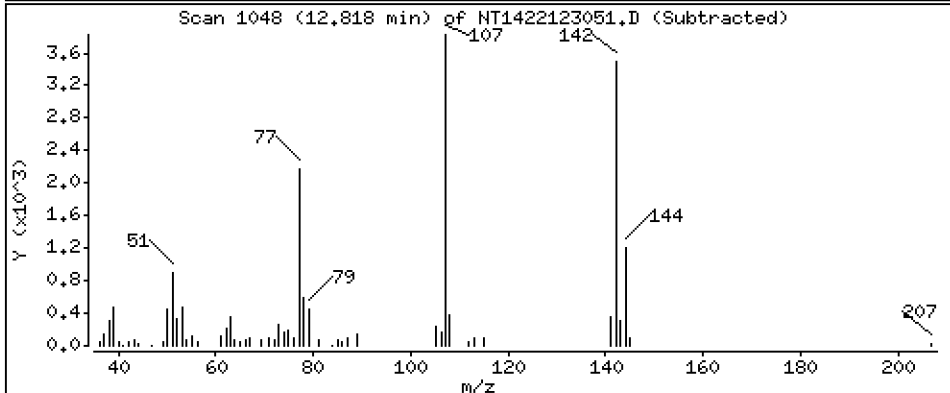
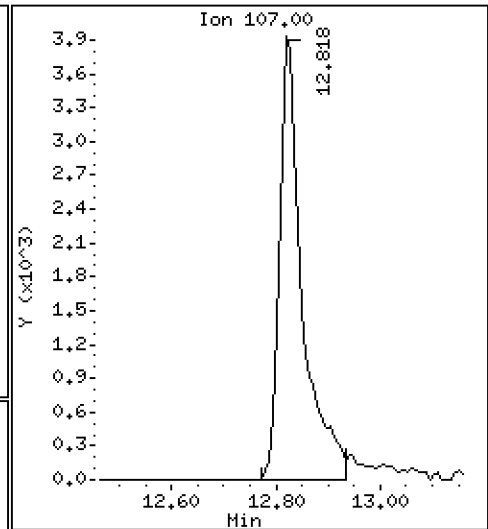
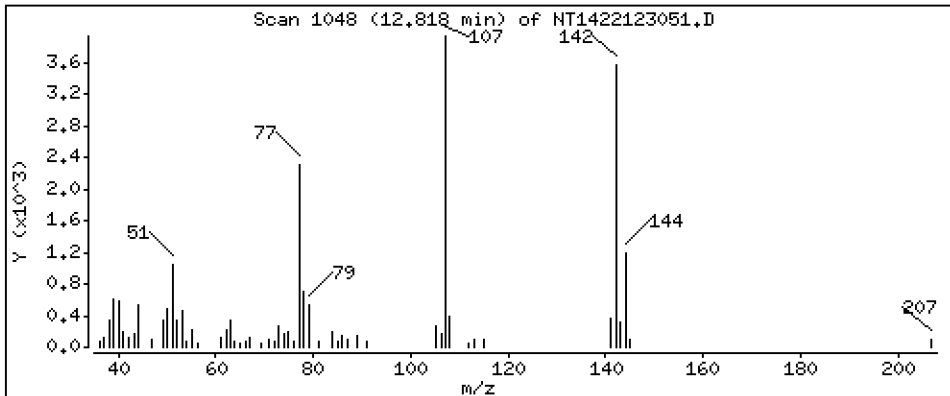
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,4010 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

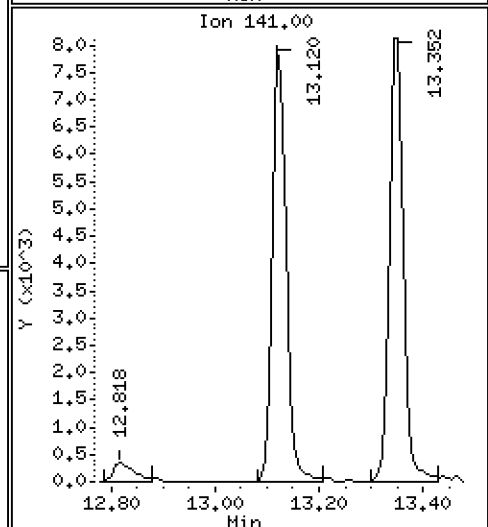
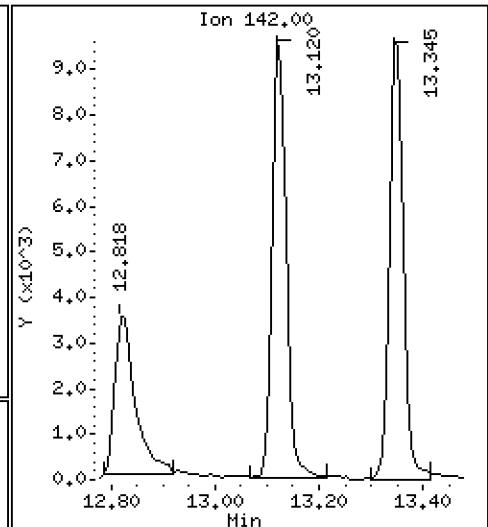
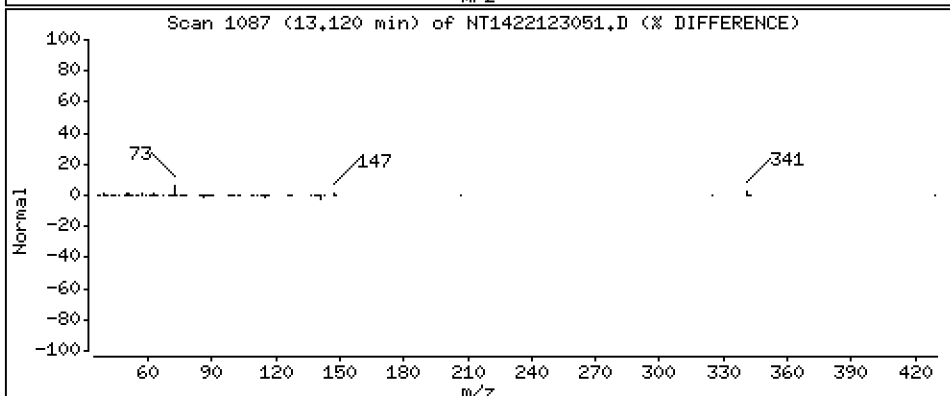
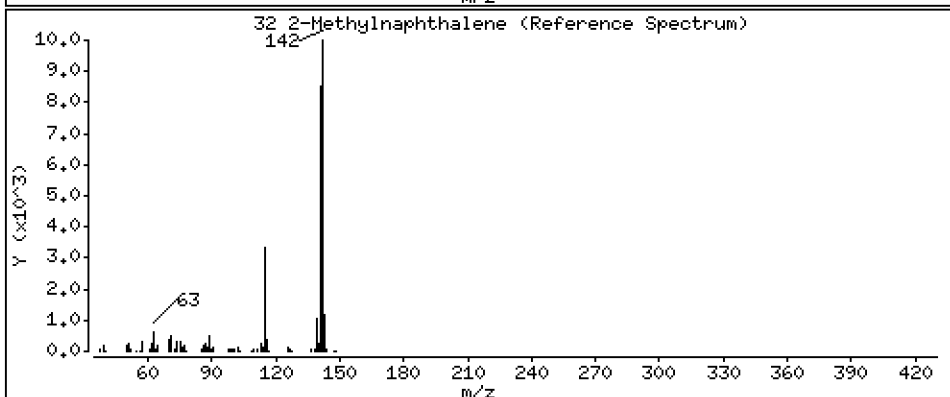
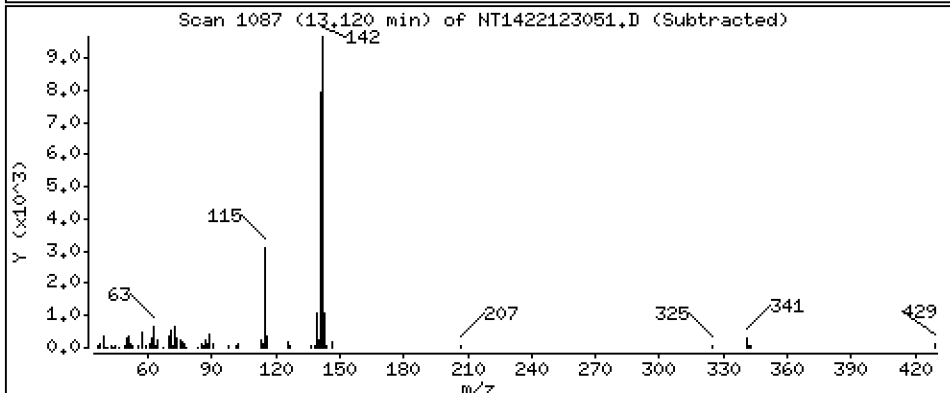
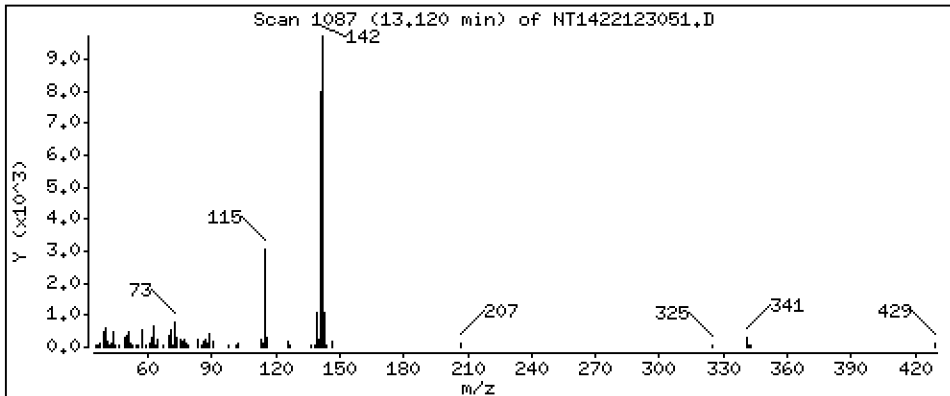
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2231 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

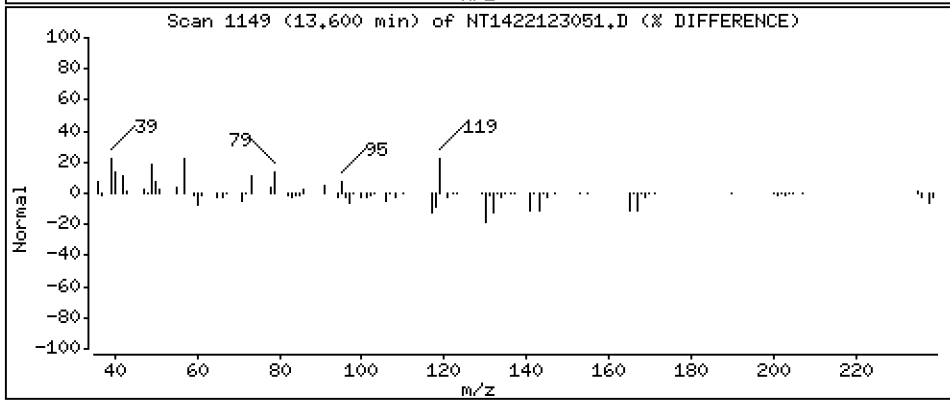
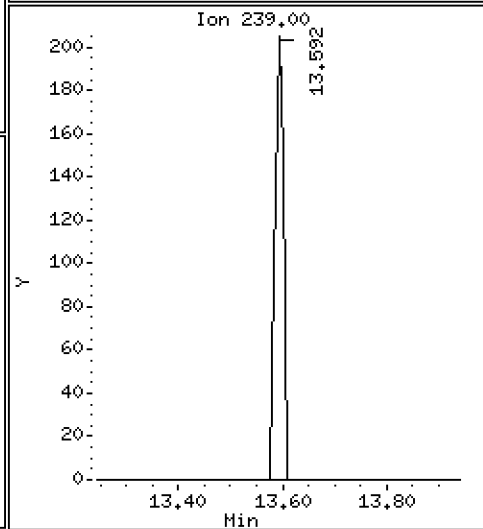
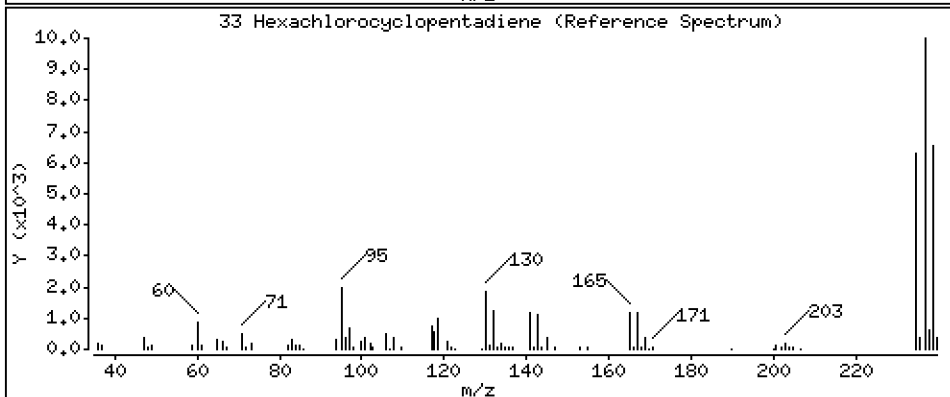
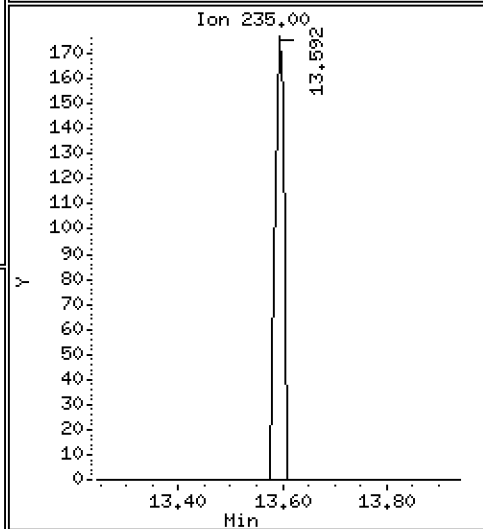
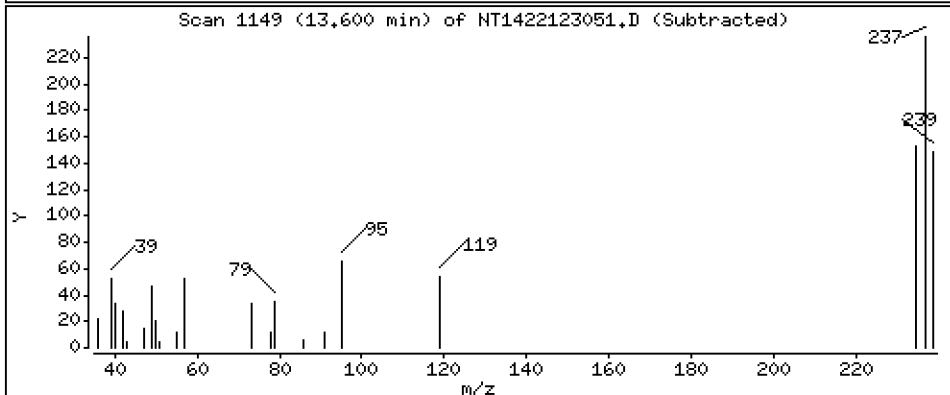
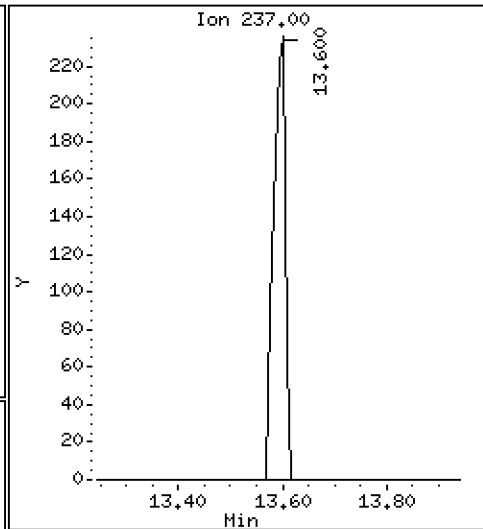
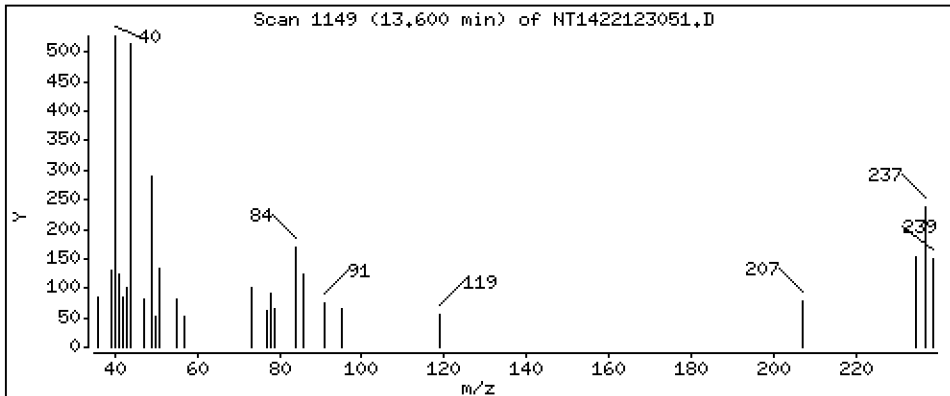
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,02150 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

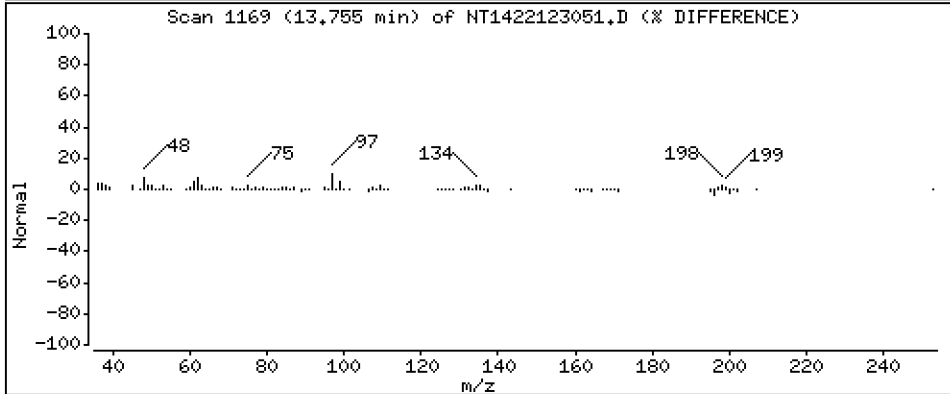
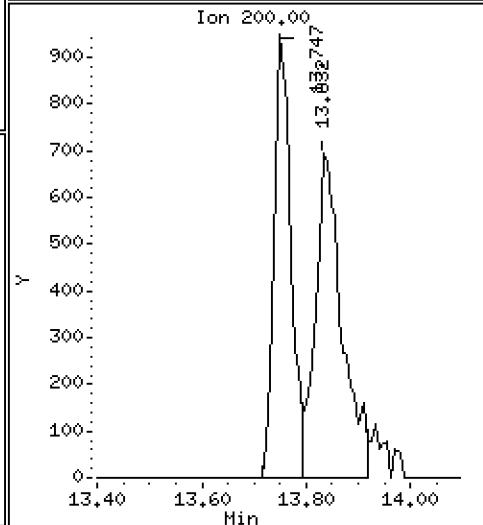
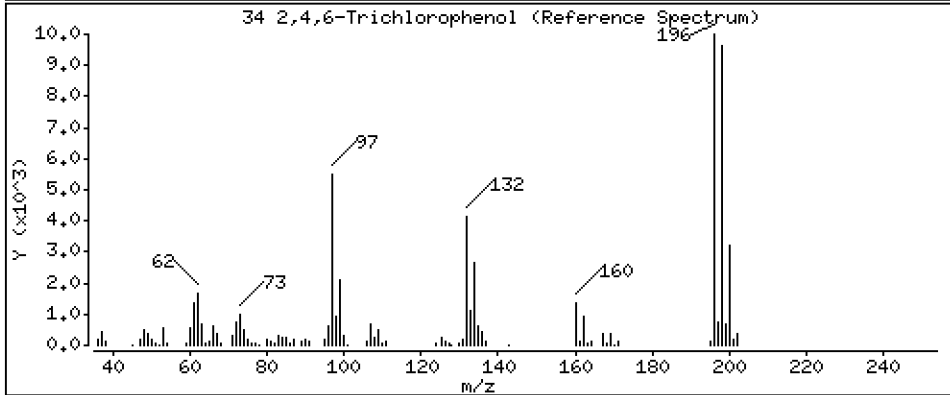
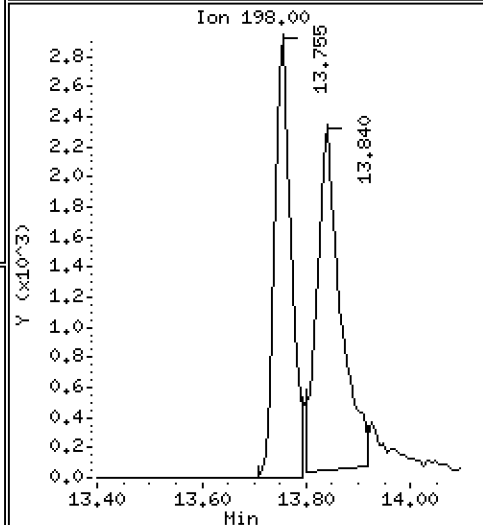
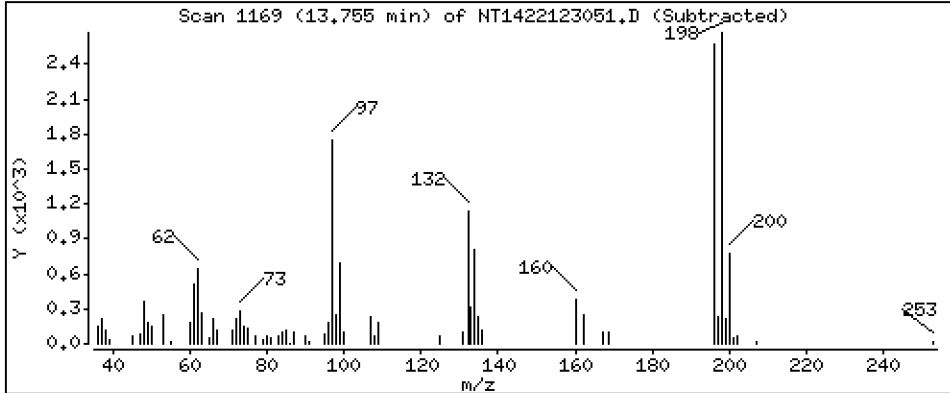
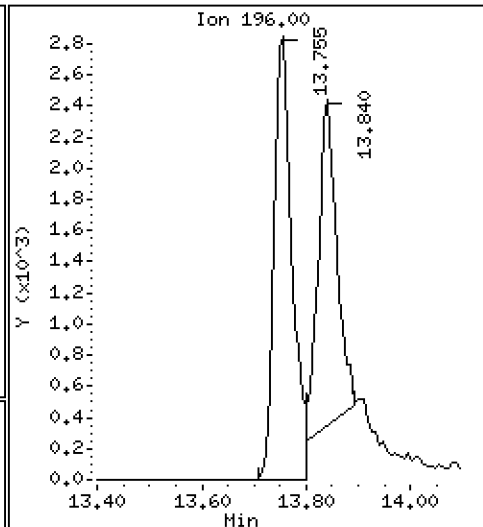
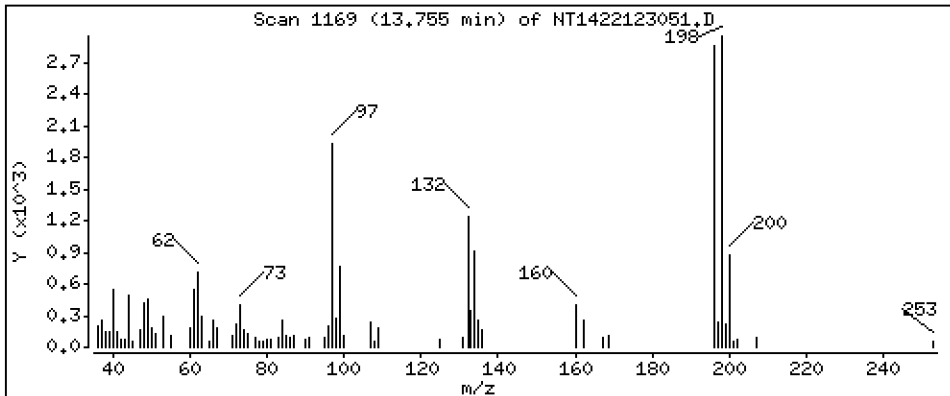
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3746 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

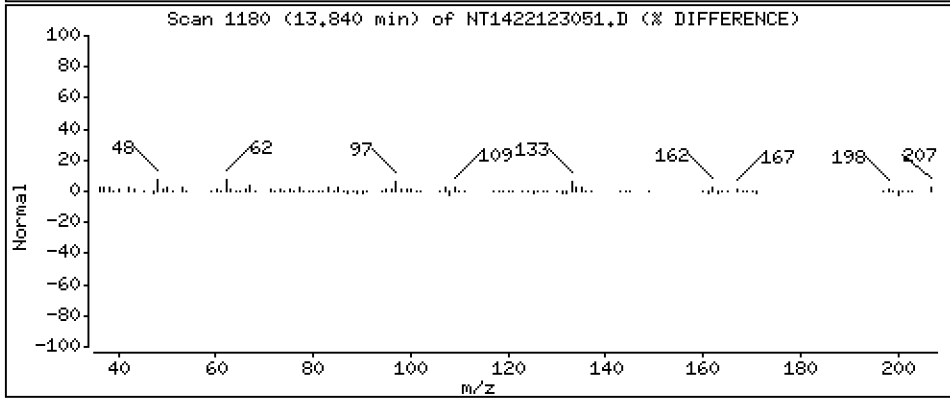
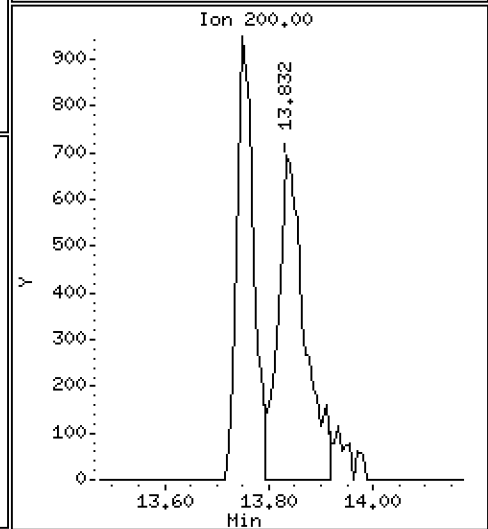
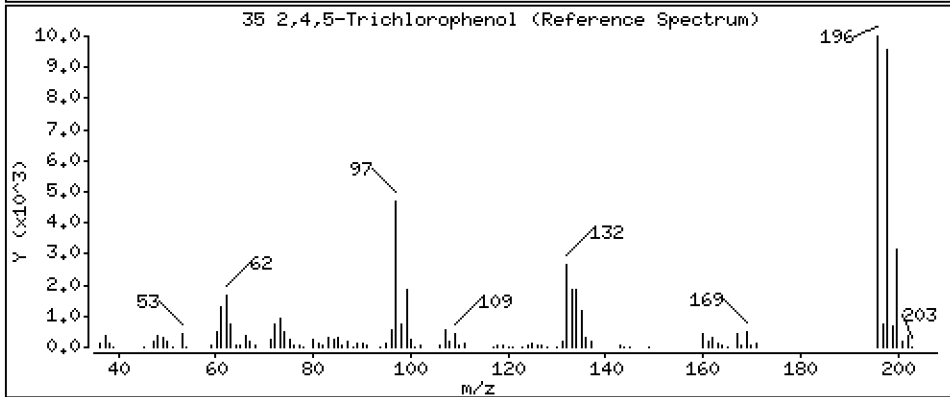
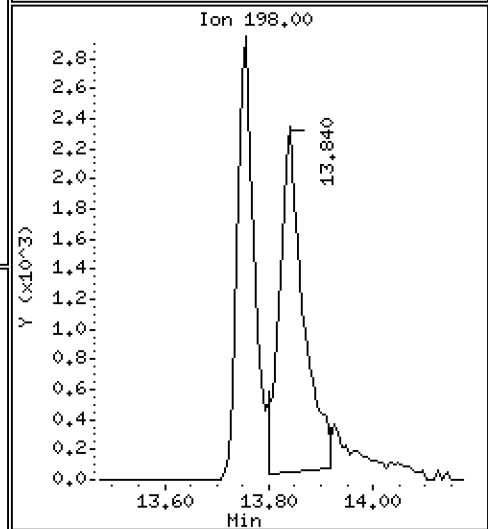
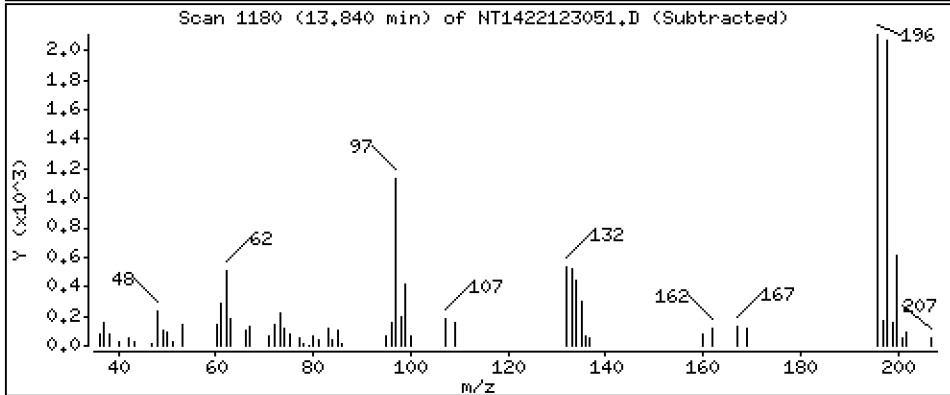
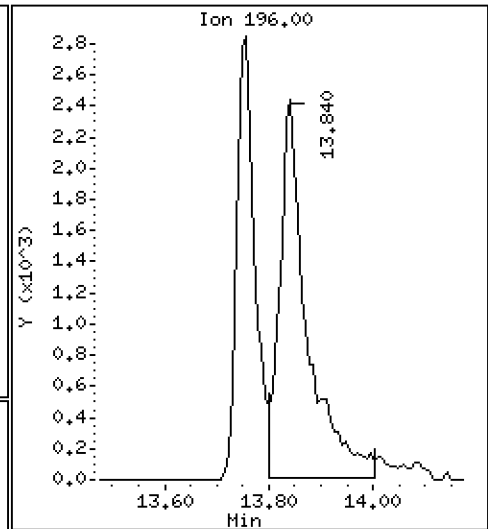
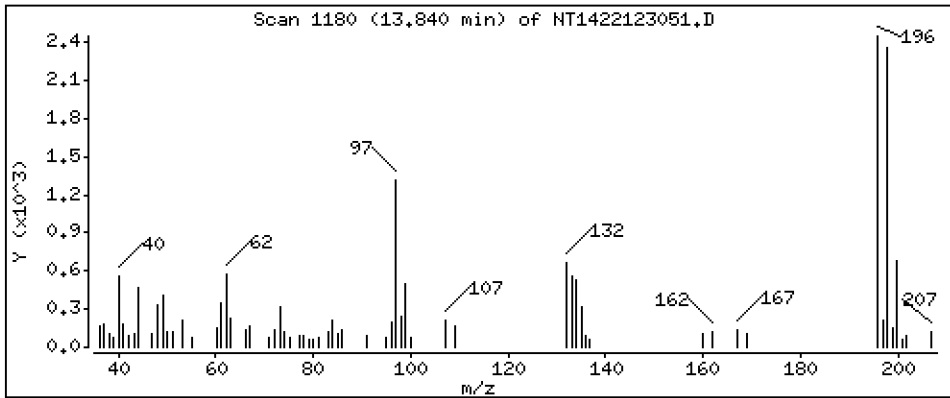
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

35 2,4,5-Trichlorophenol

Concentration: 0.4316 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

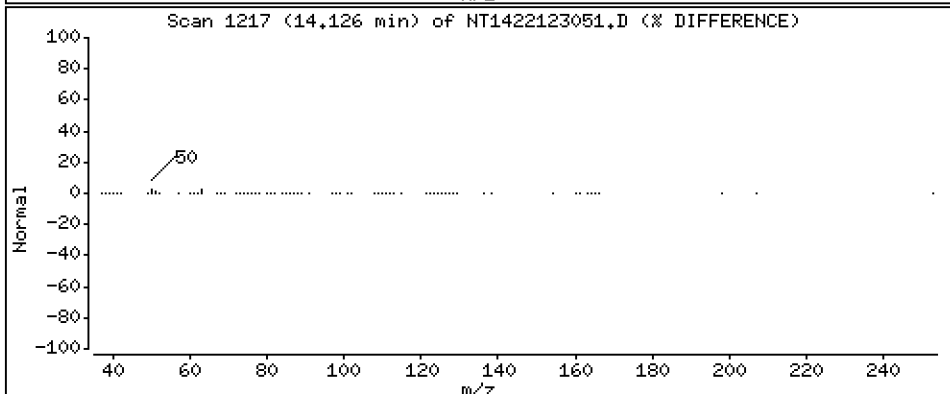
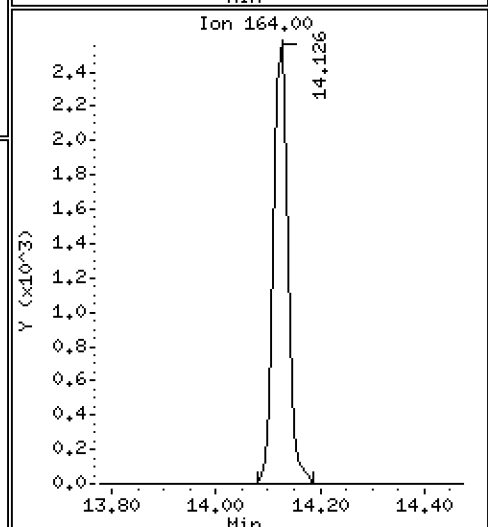
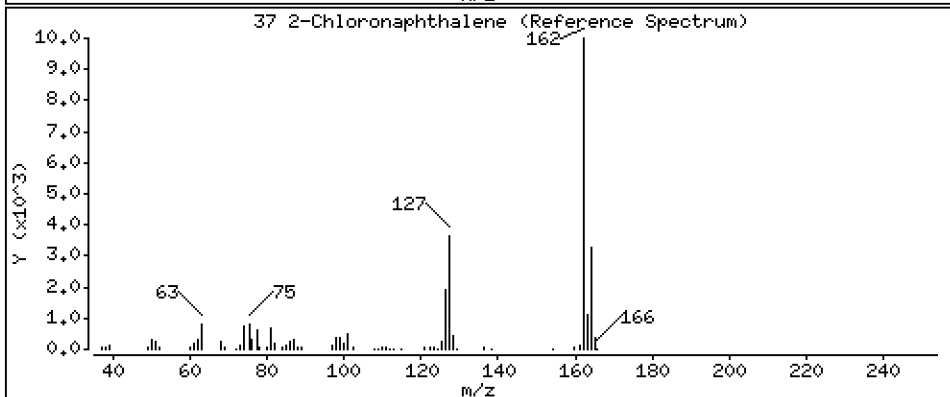
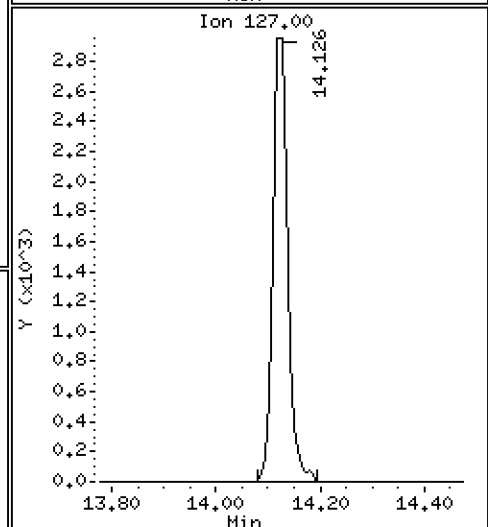
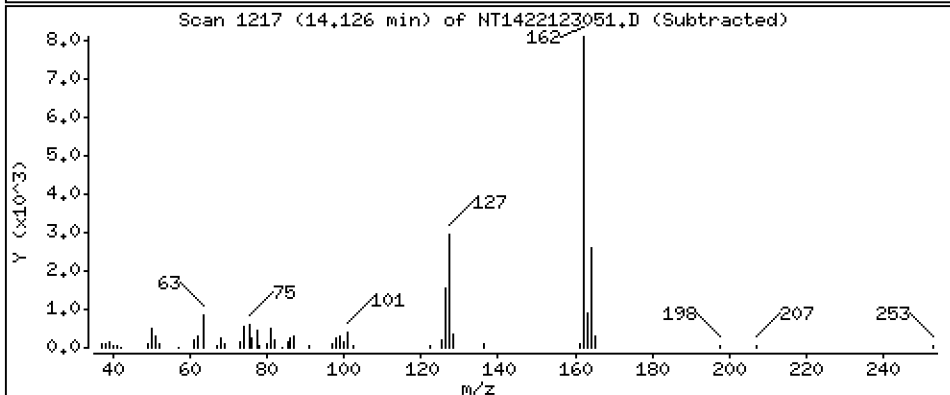
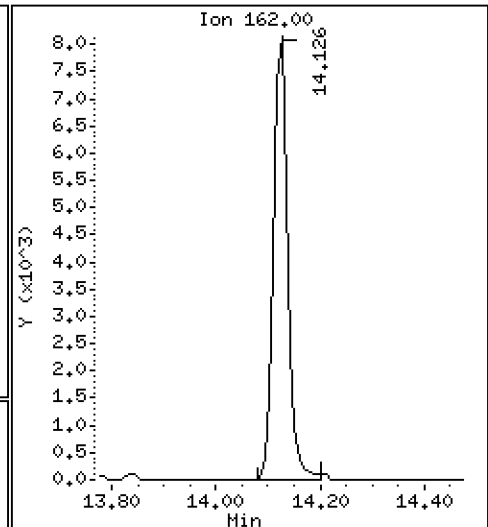
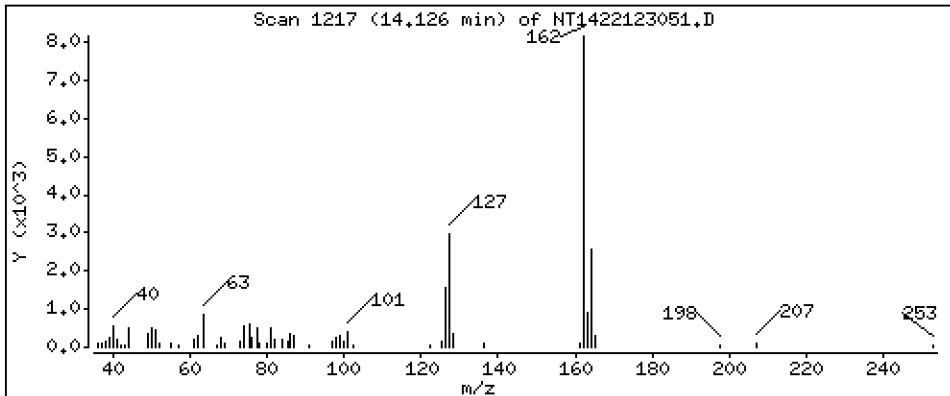
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,2372 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

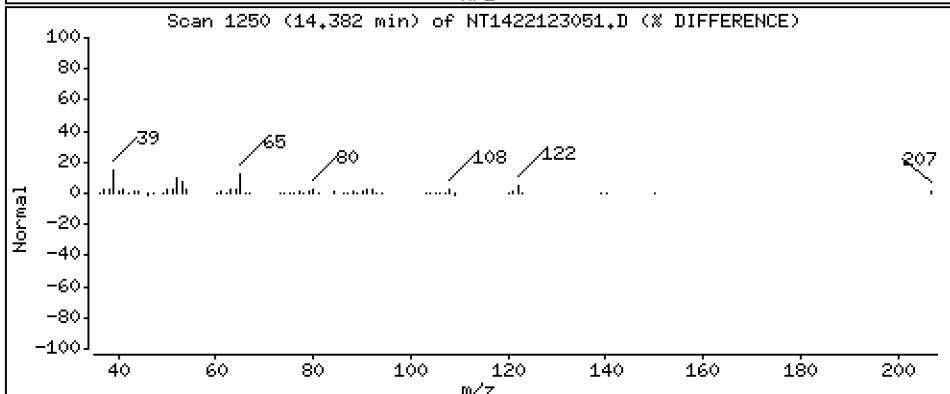
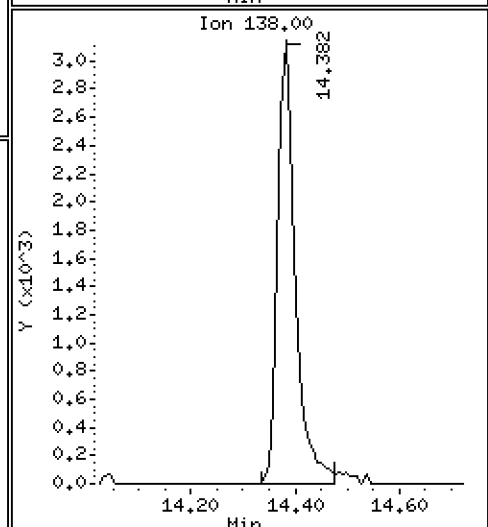
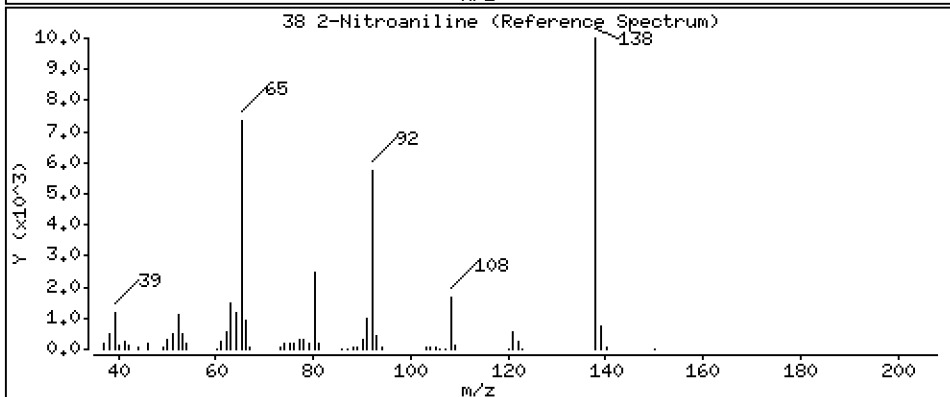
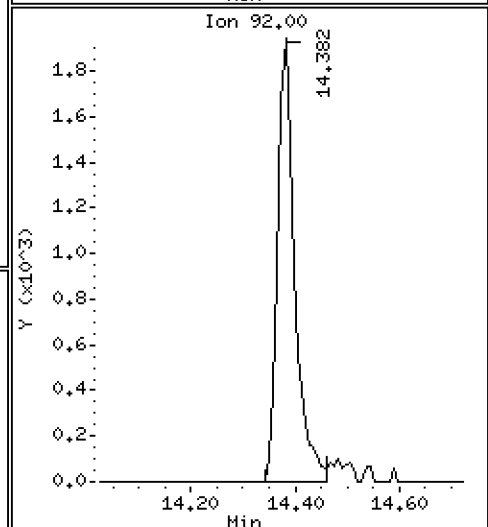
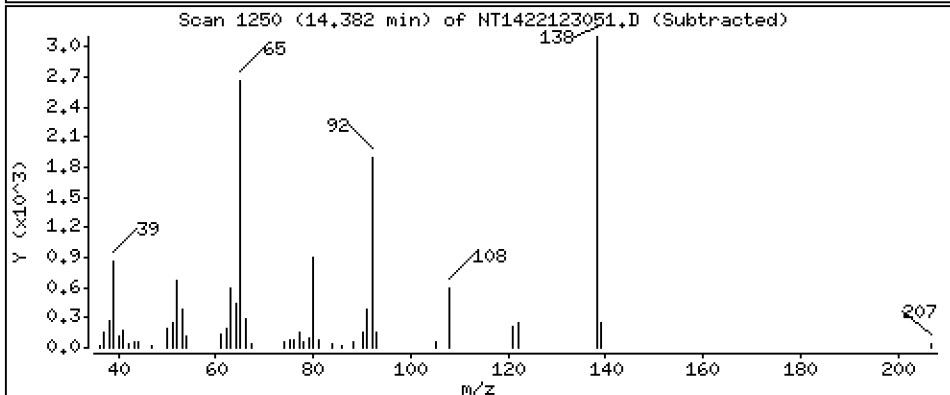
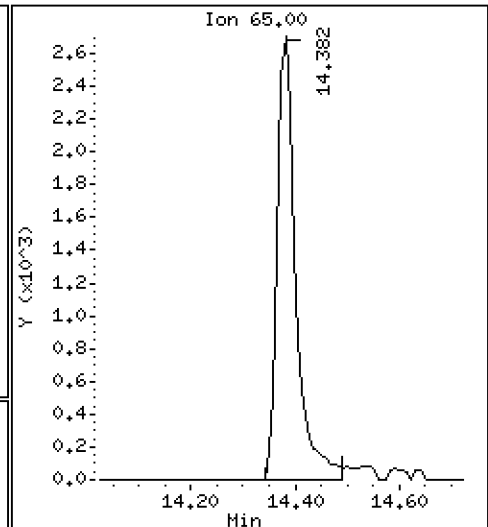
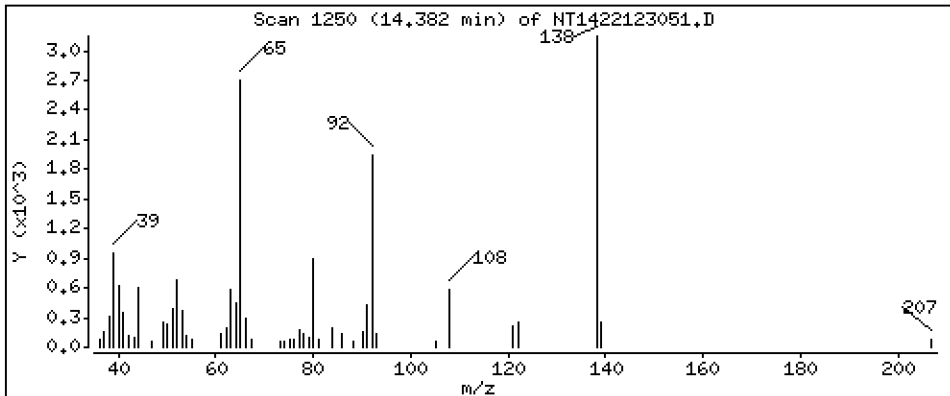
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,3972 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

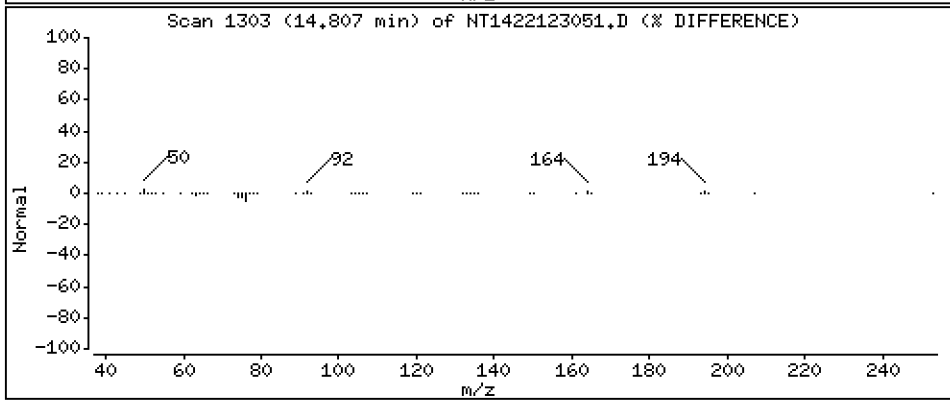
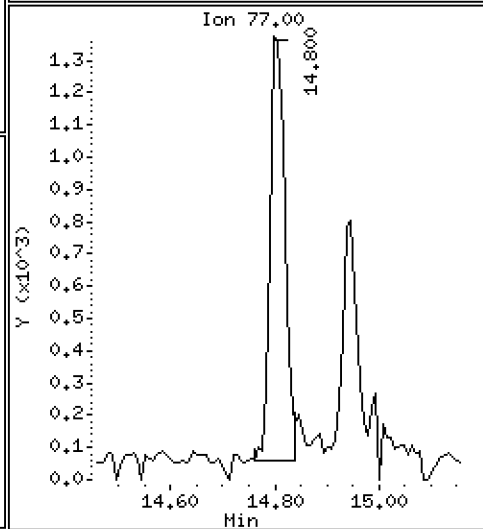
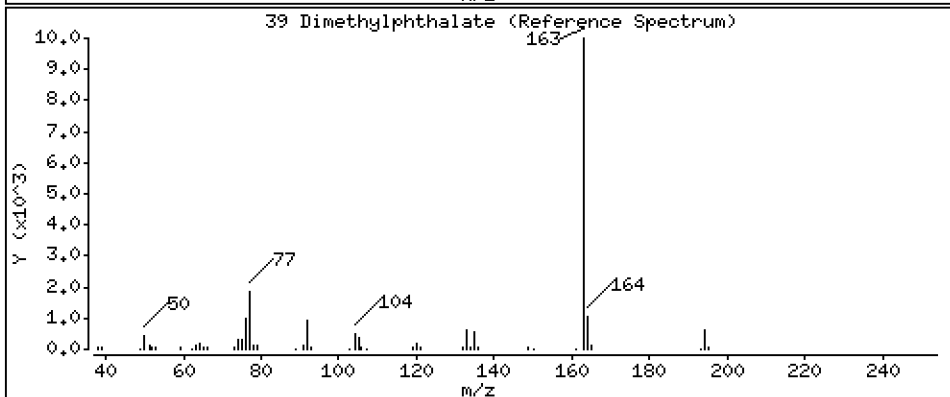
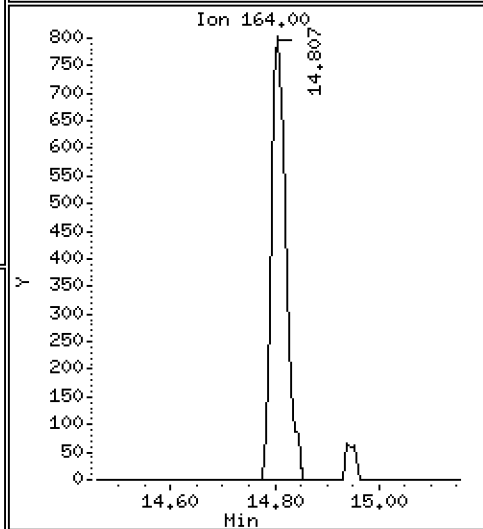
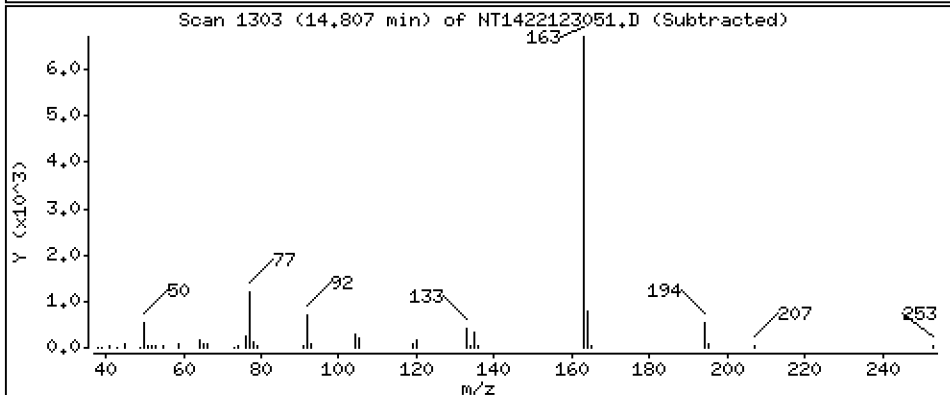
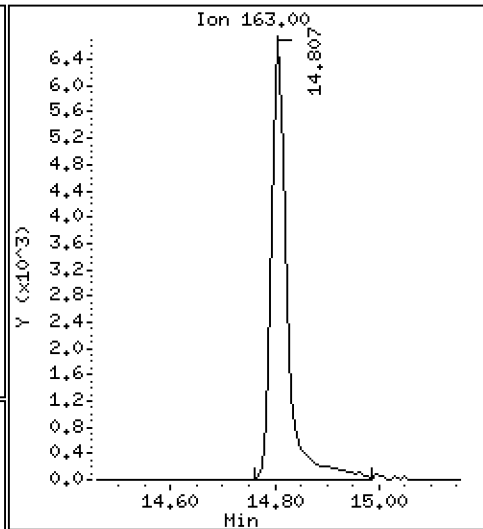
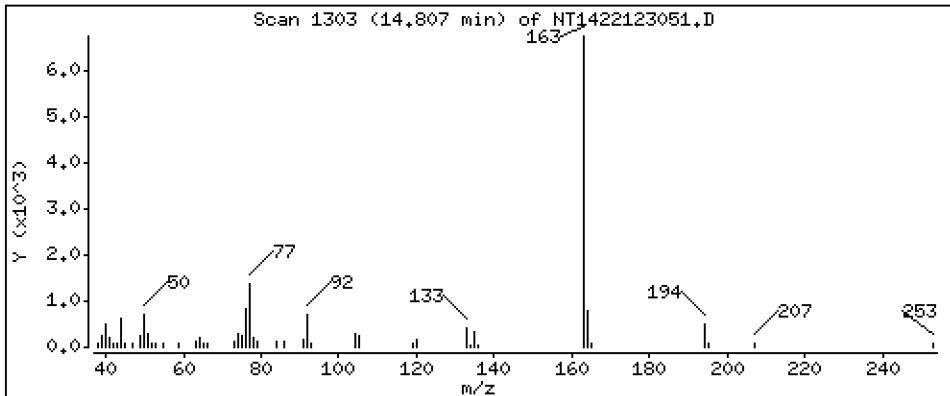
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2231 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

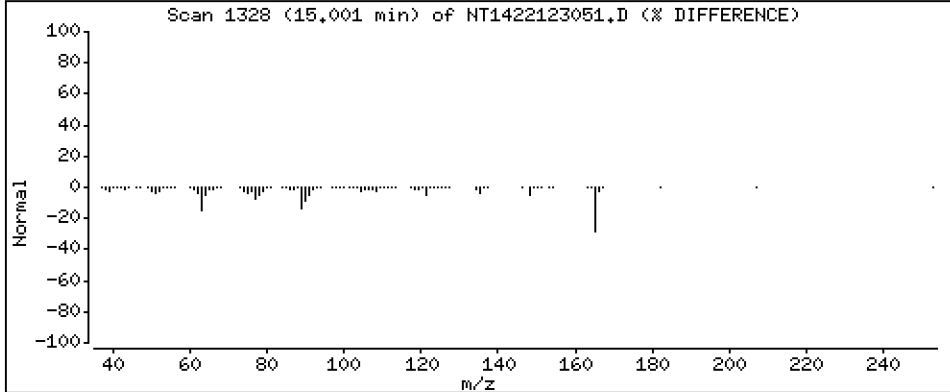
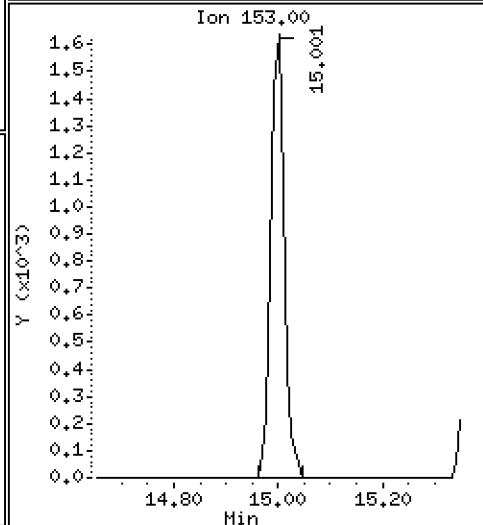
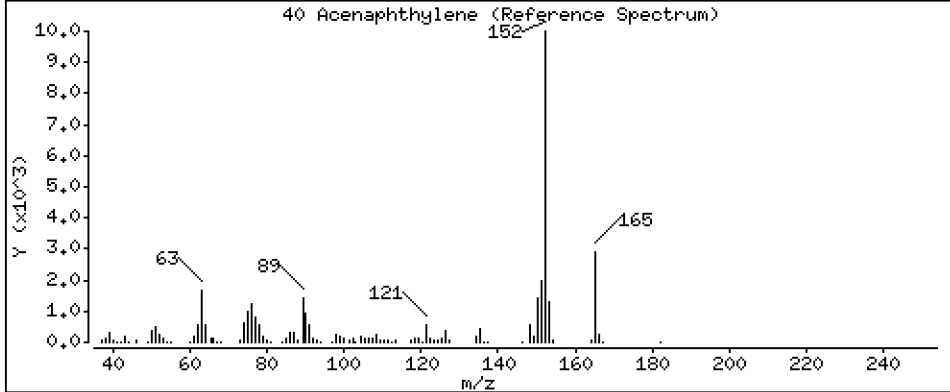
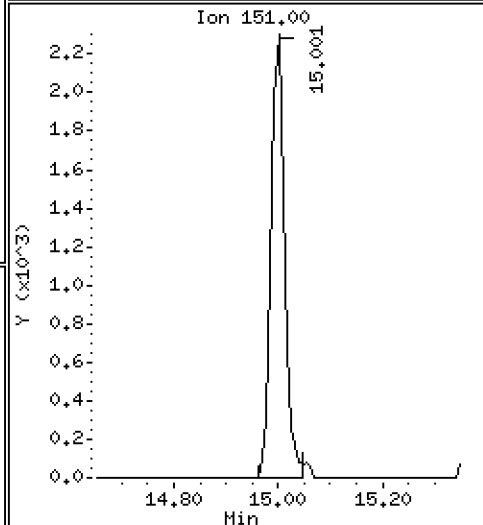
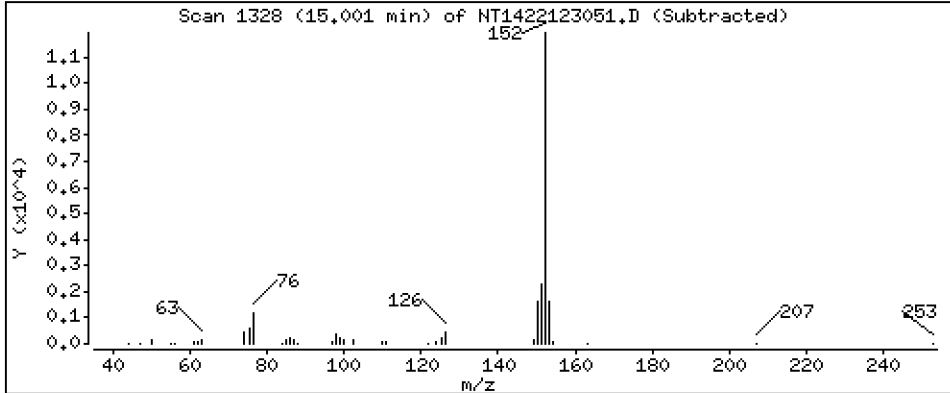
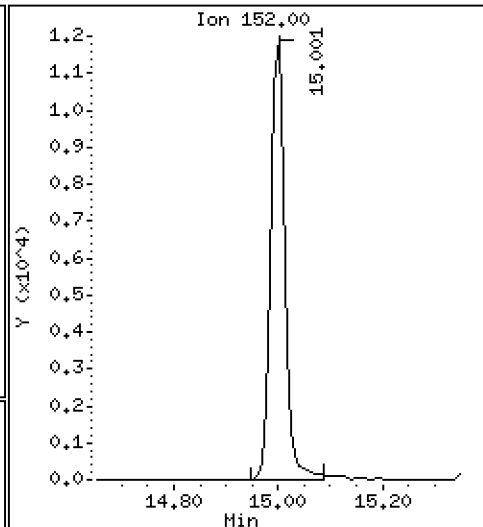
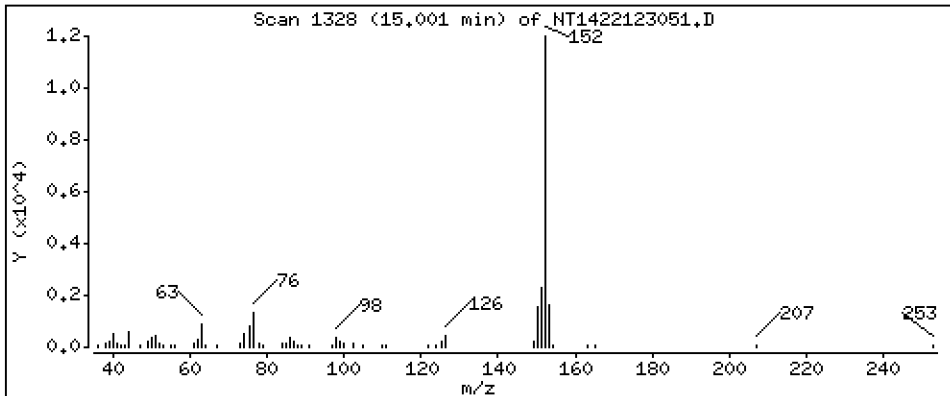
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2256 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

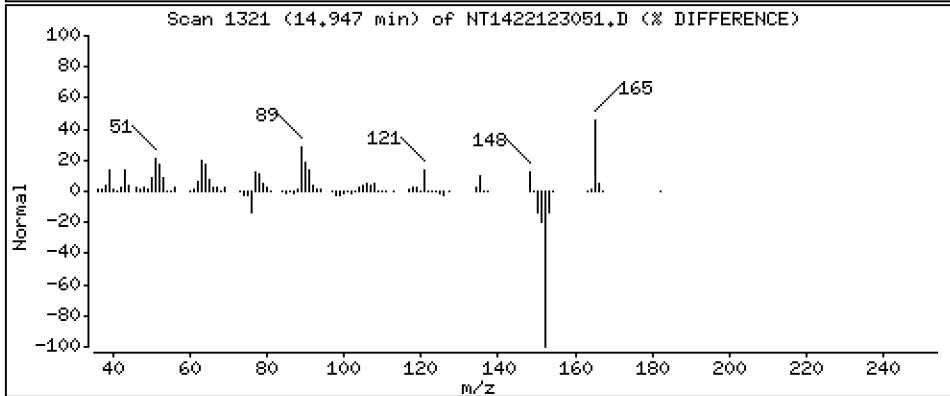
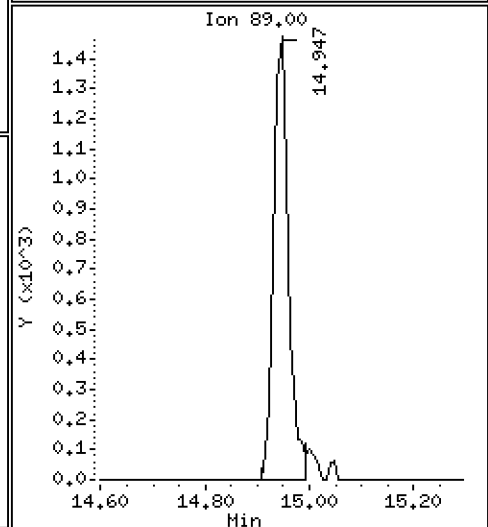
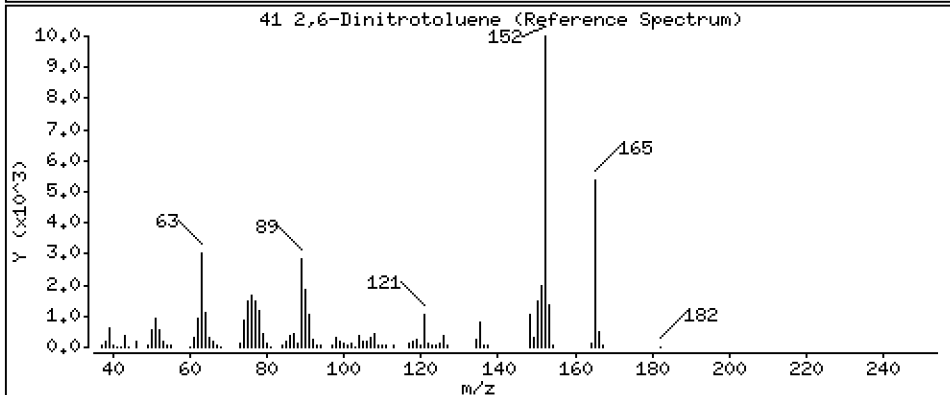
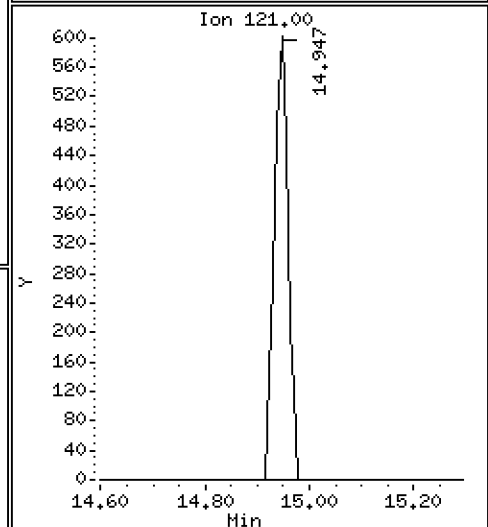
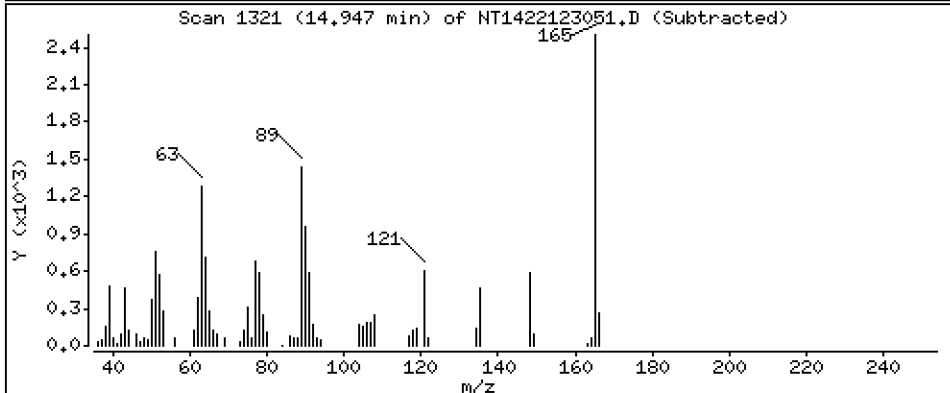
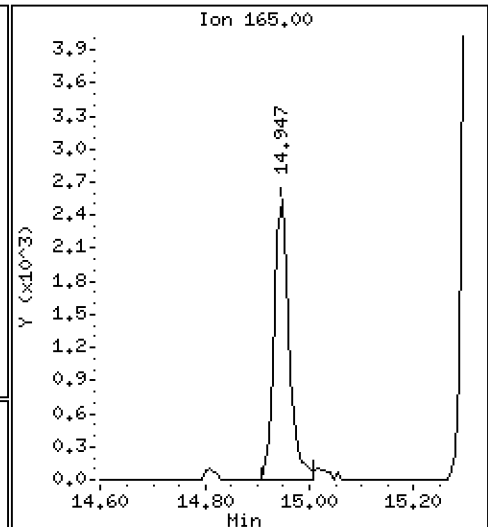
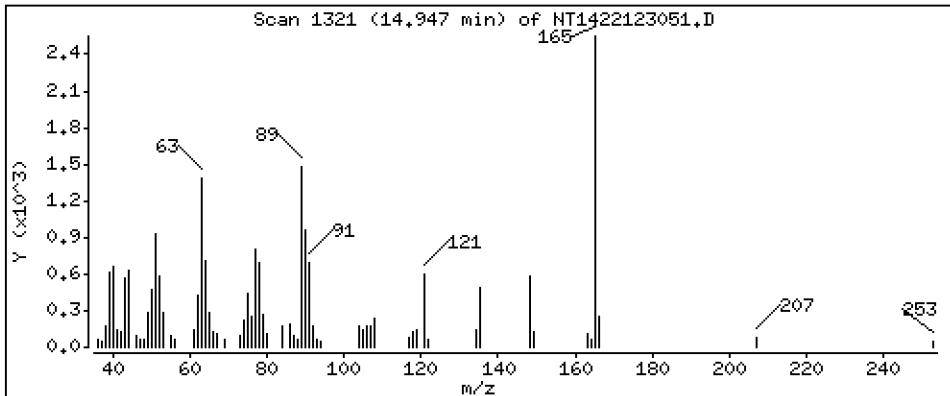
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3515 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

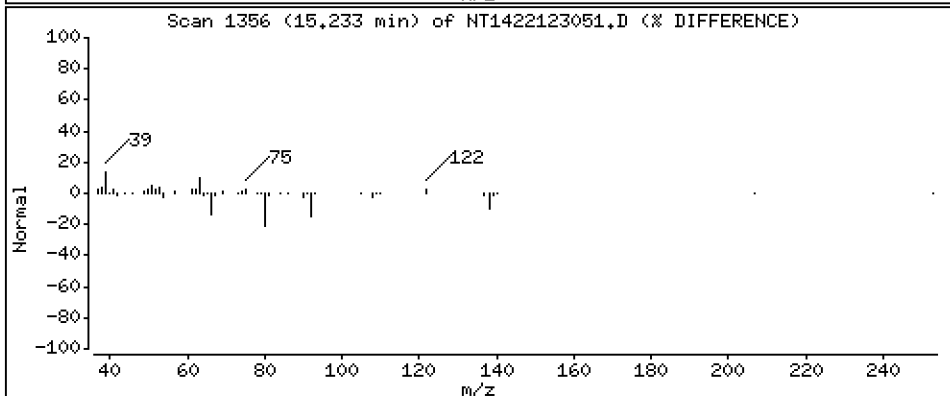
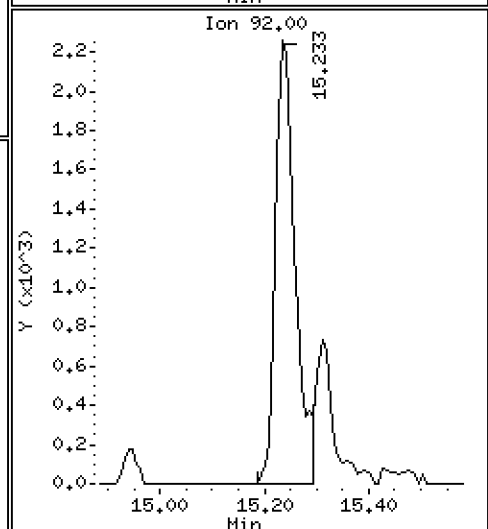
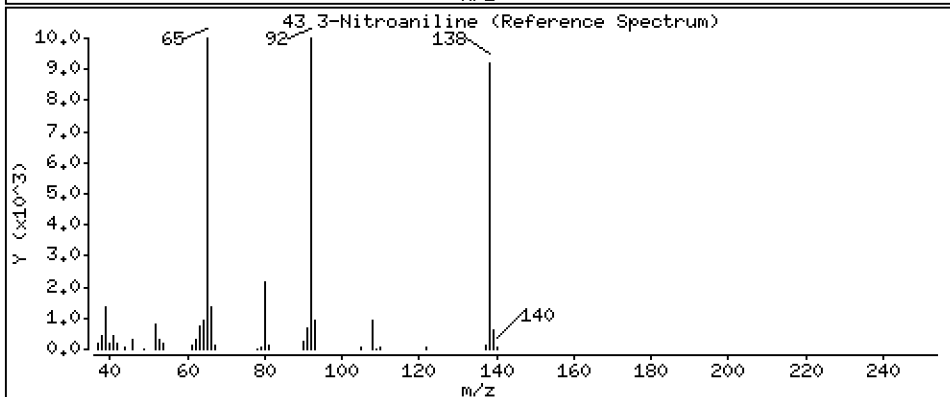
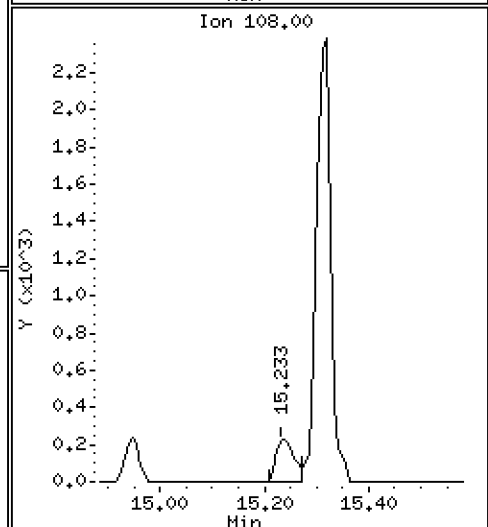
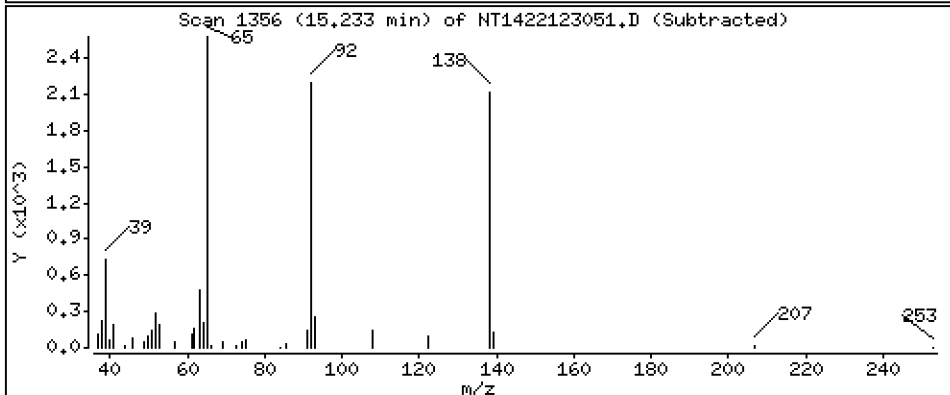
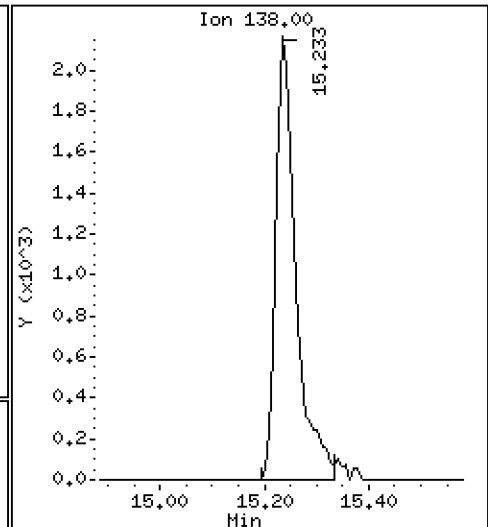
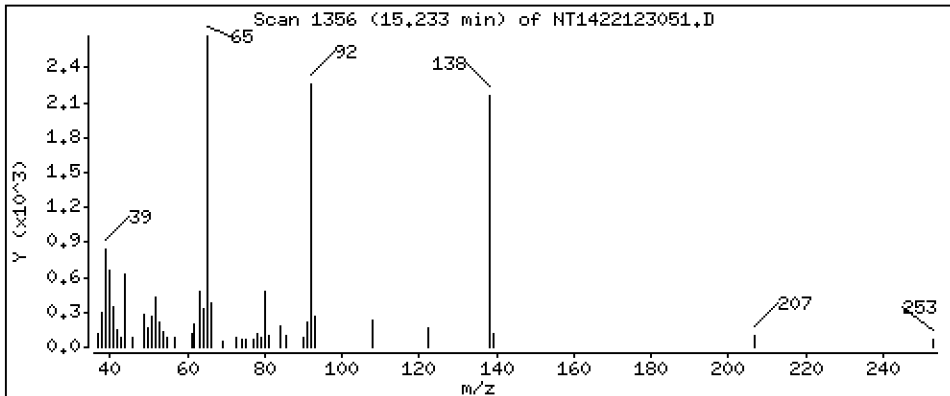
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,3370 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

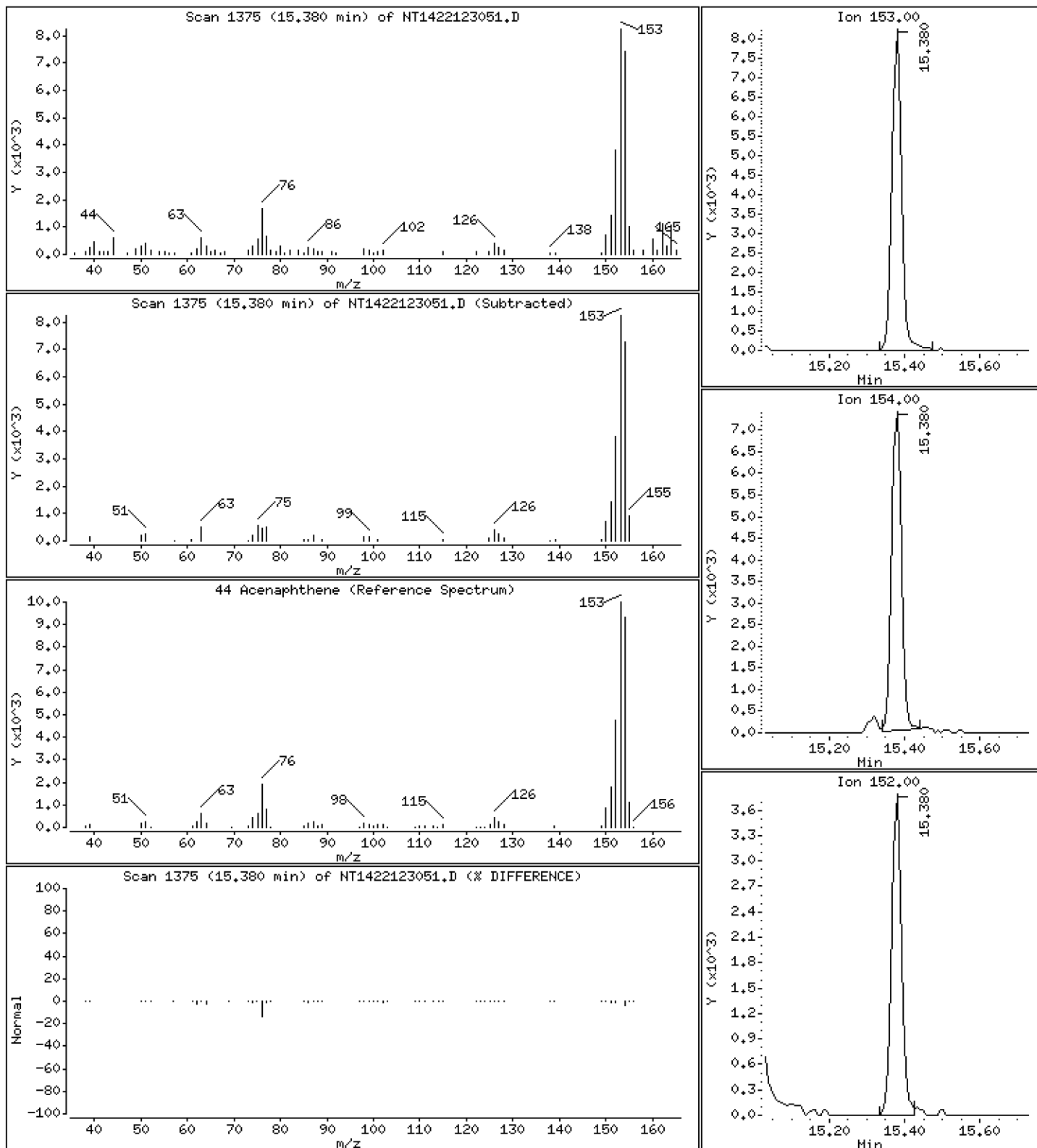
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2351 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

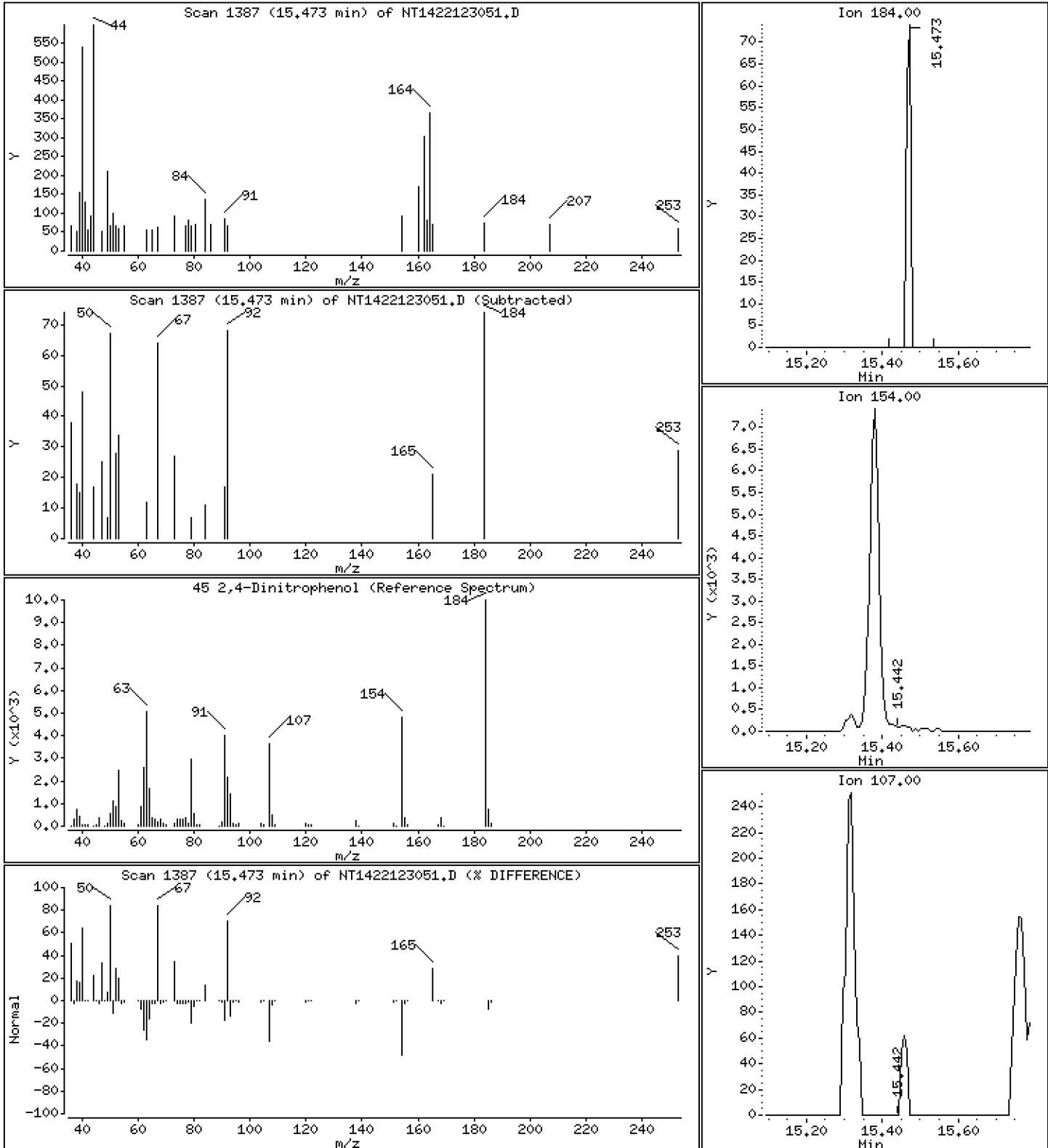
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,005296 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

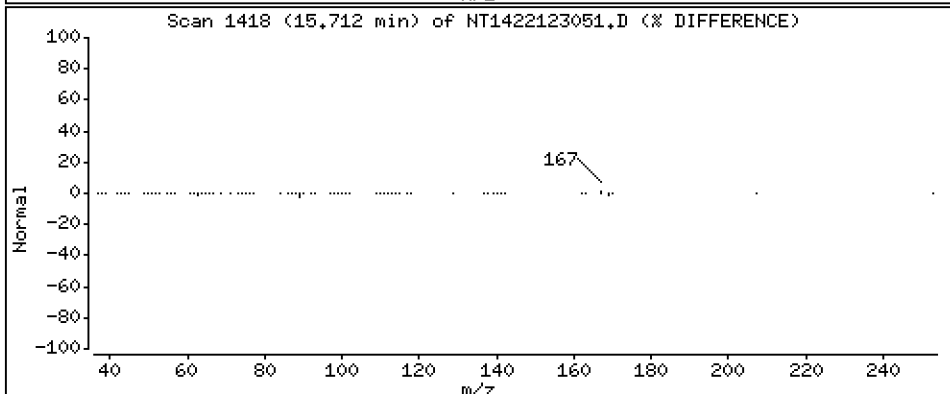
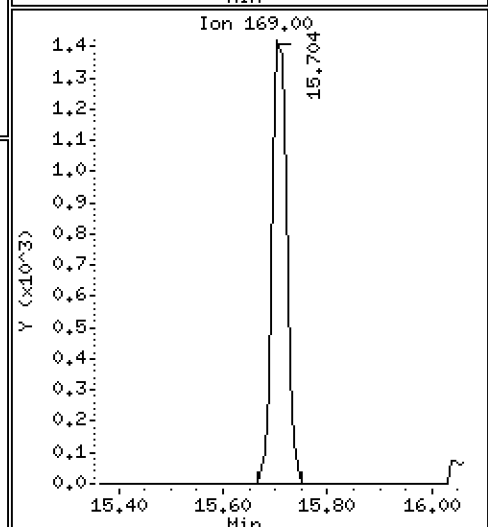
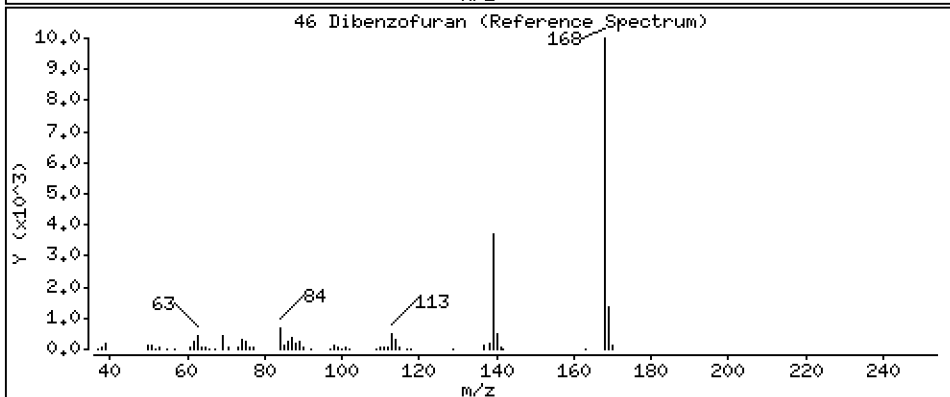
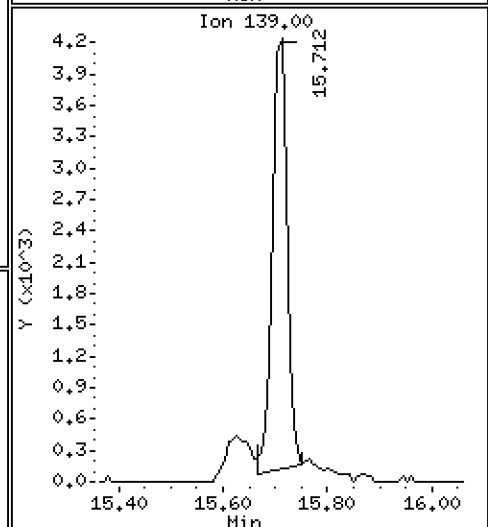
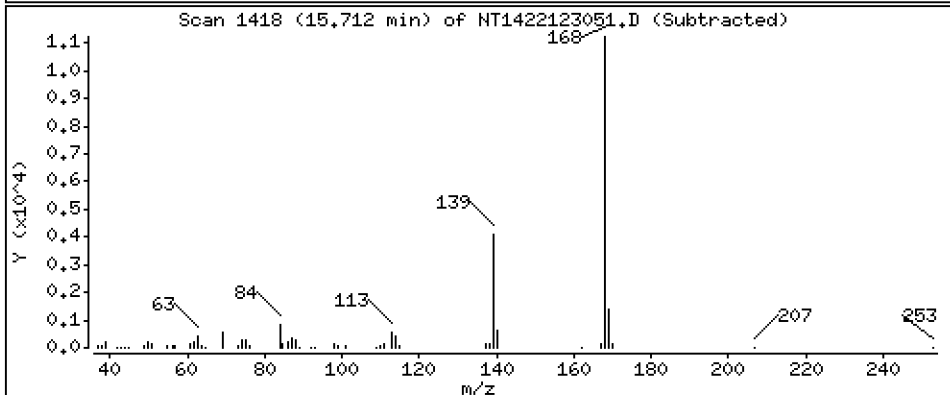
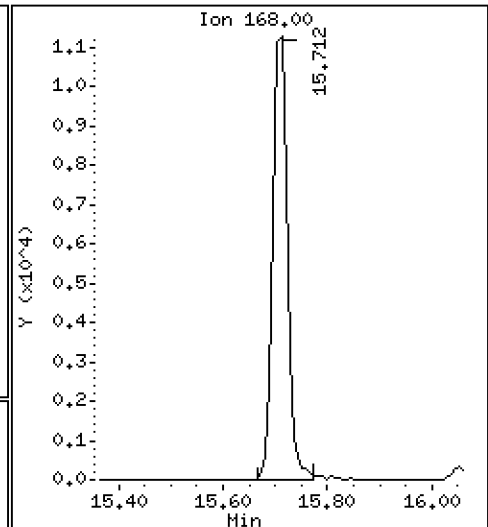
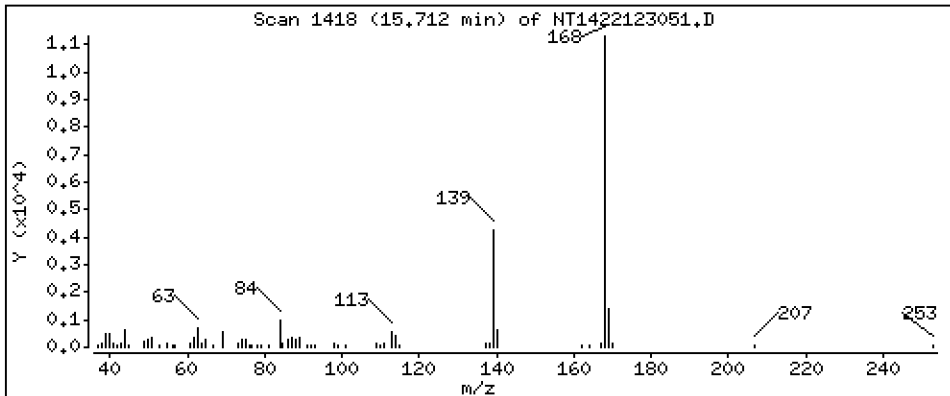
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2405 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

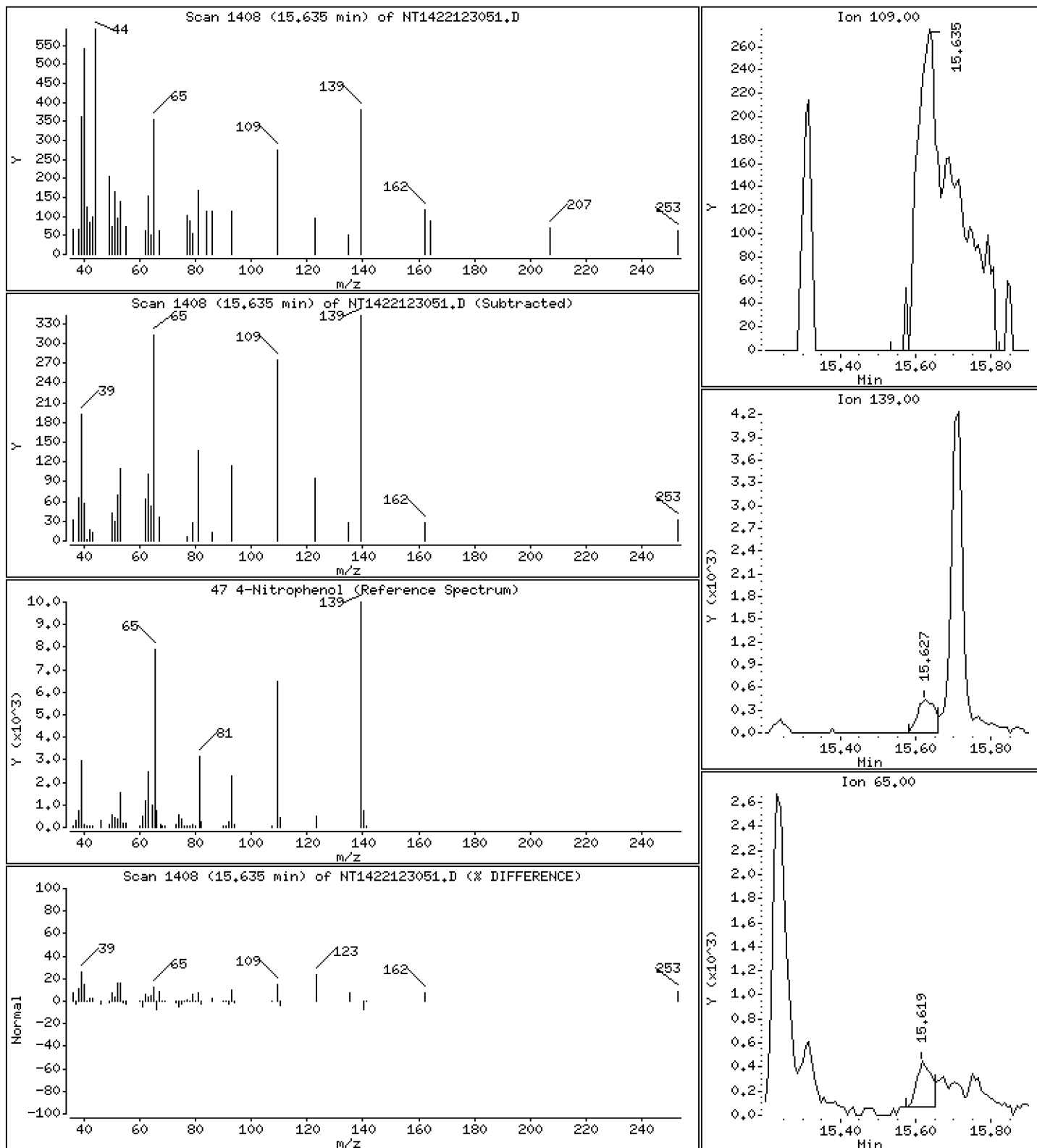
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,2375 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

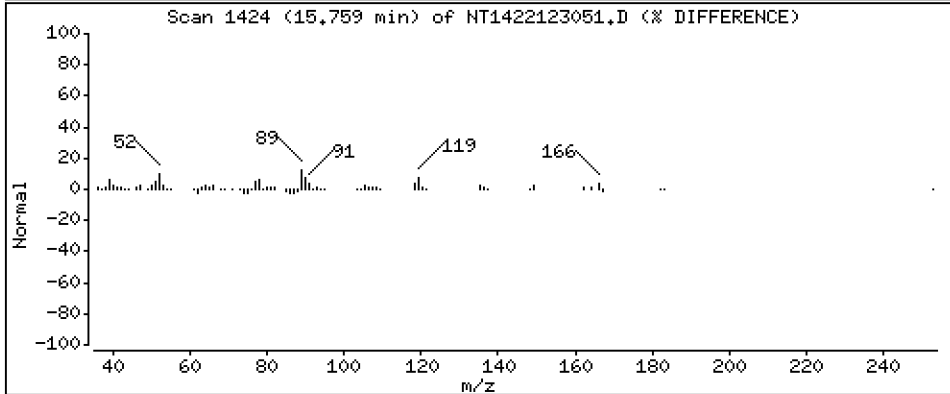
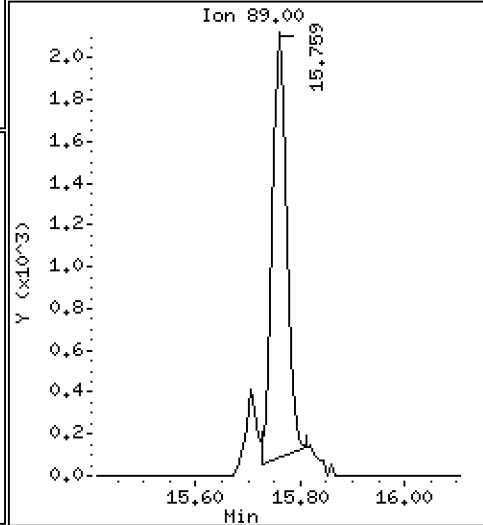
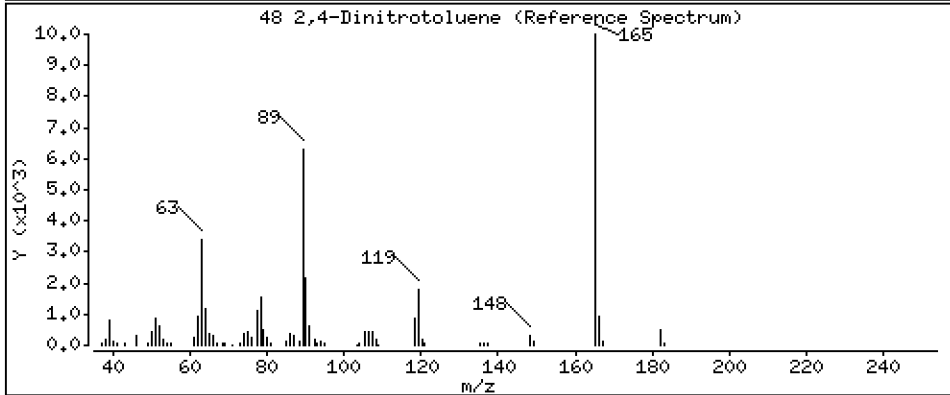
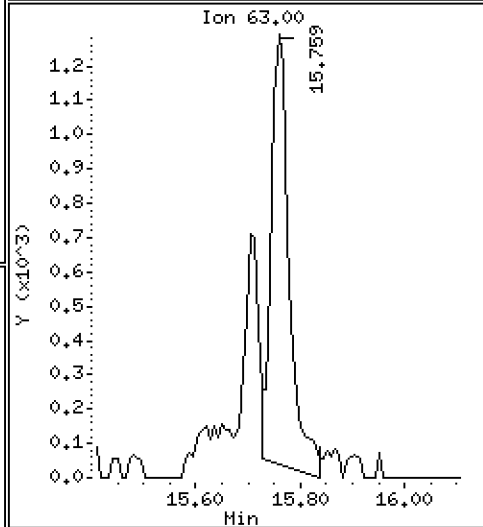
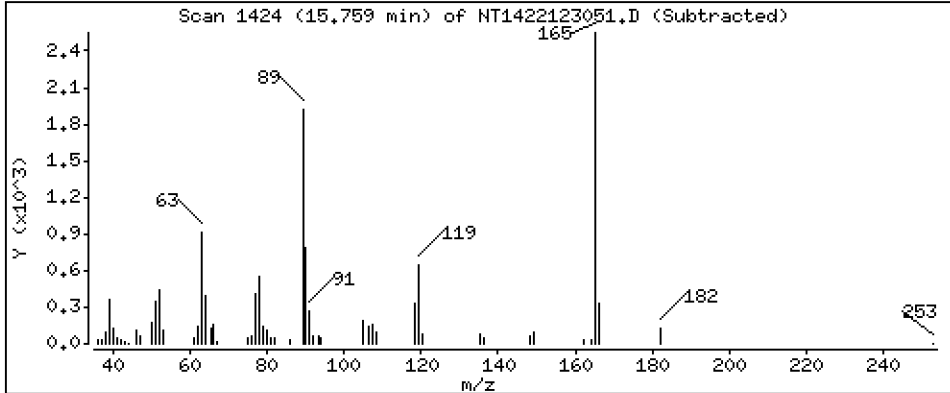
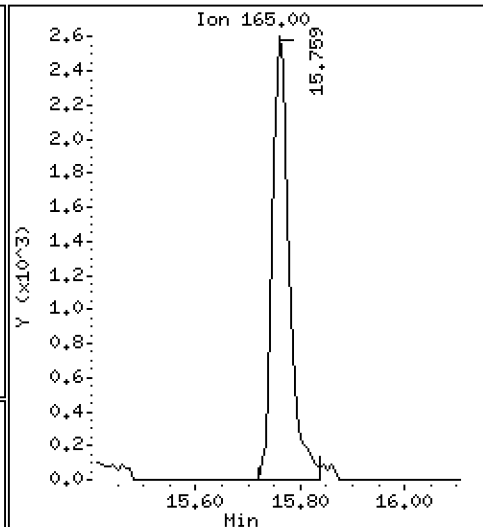
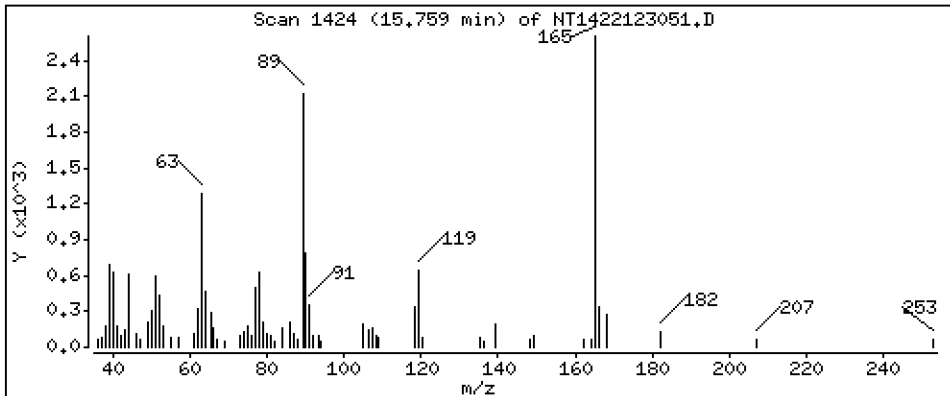
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.3020 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

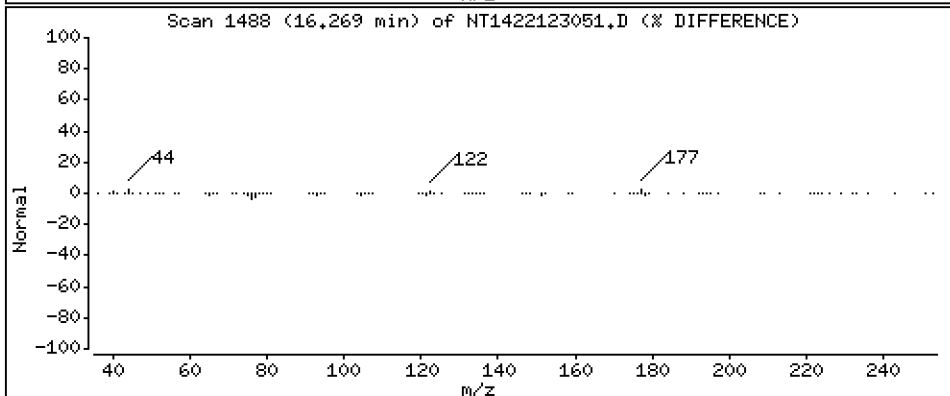
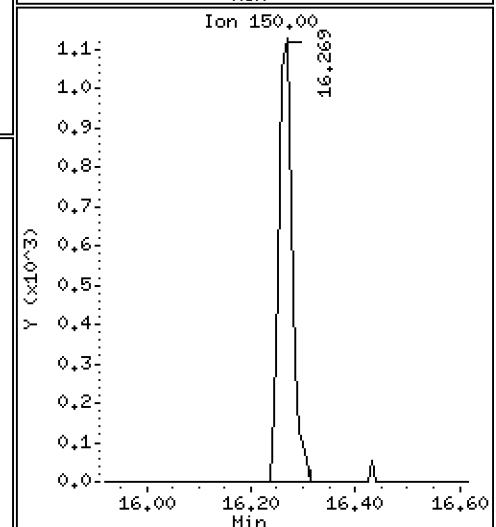
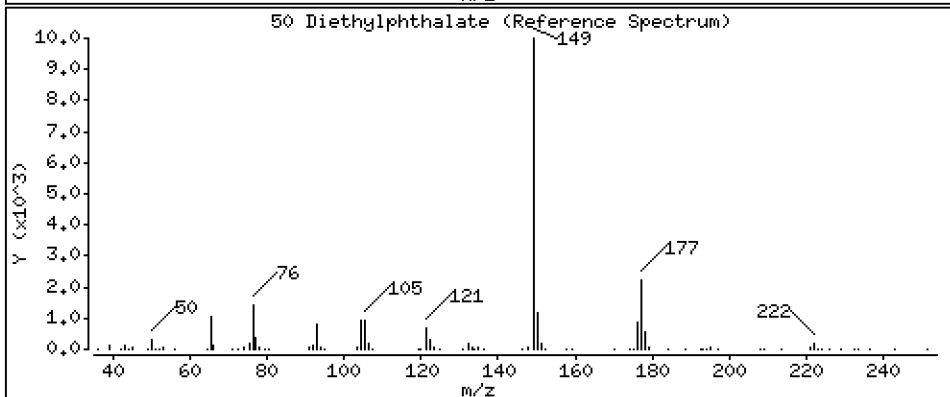
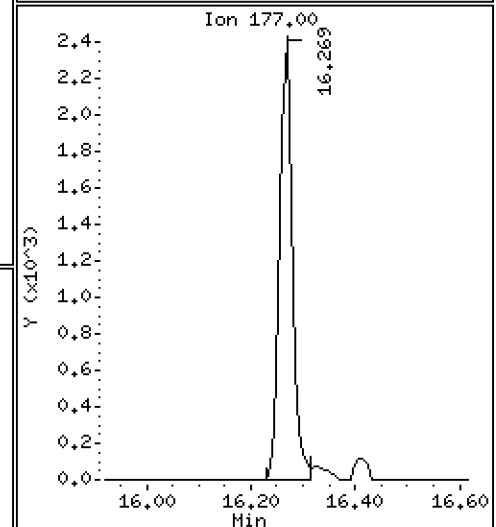
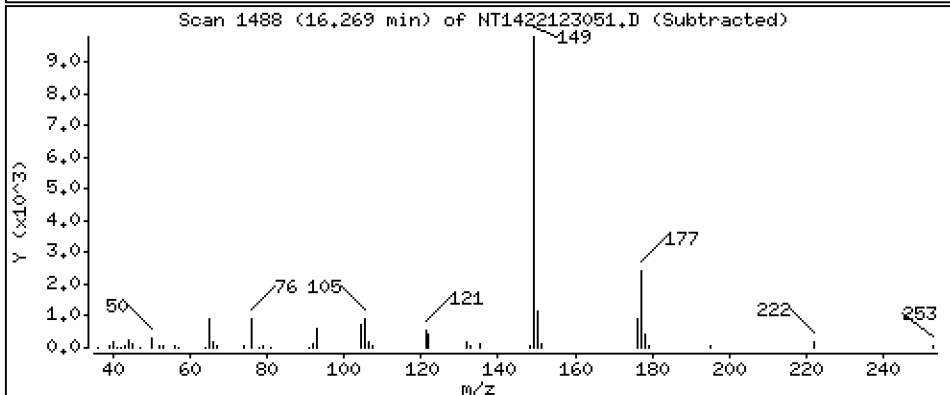
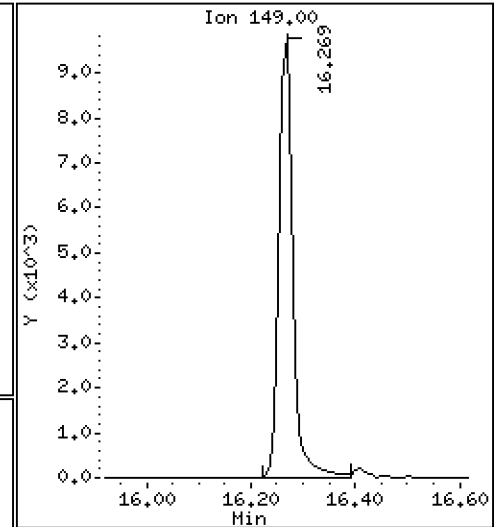
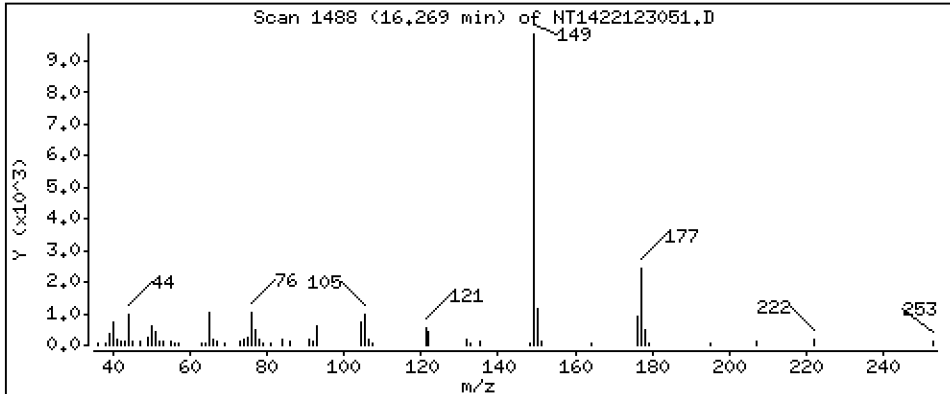
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2277 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

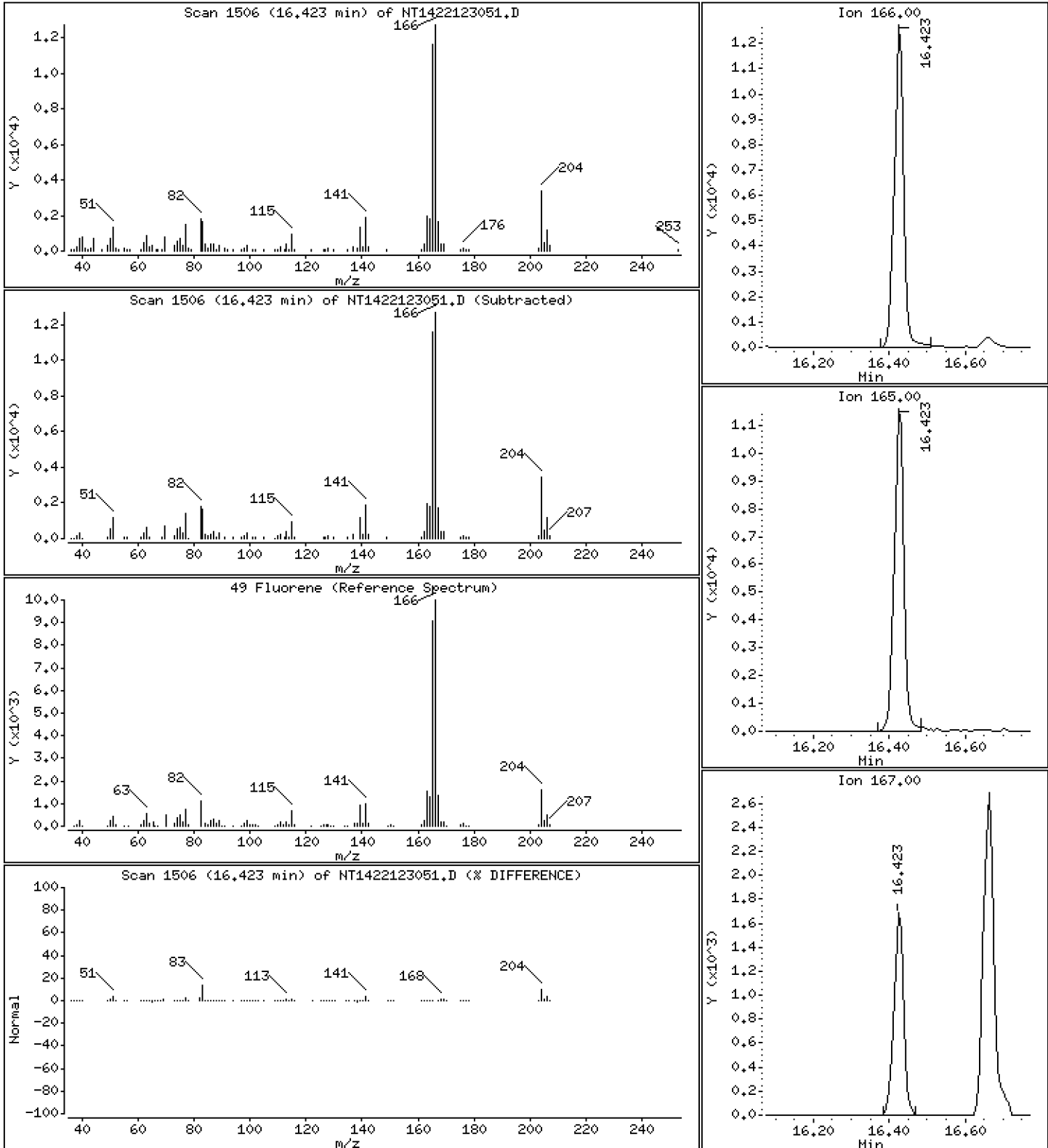
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2274 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

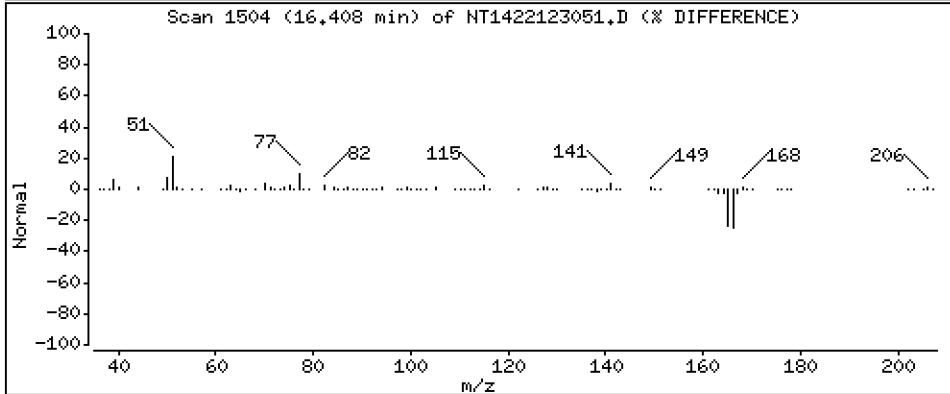
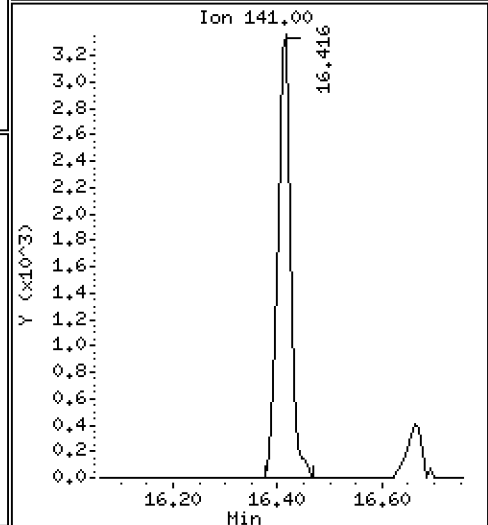
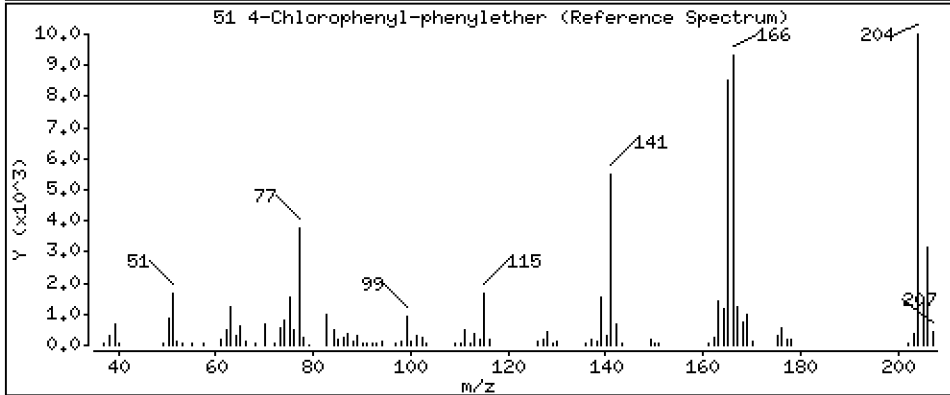
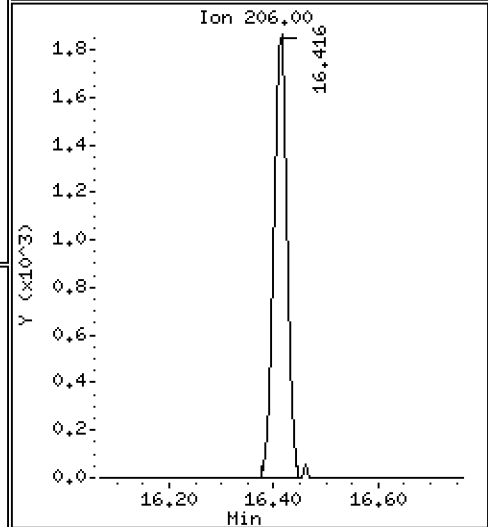
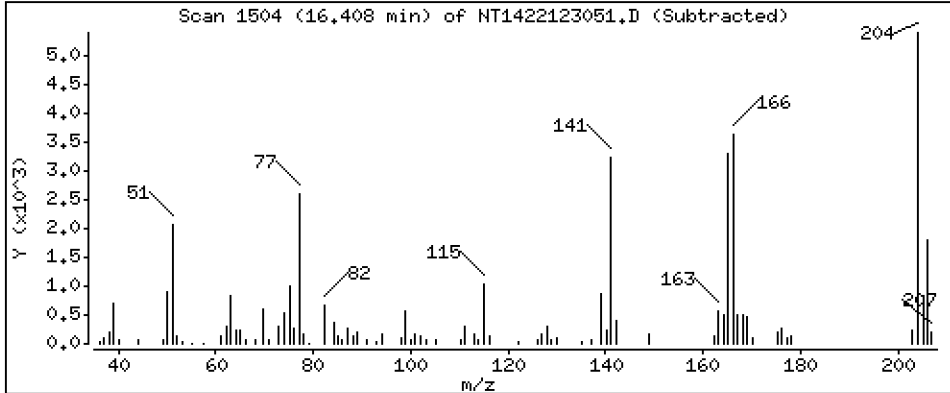
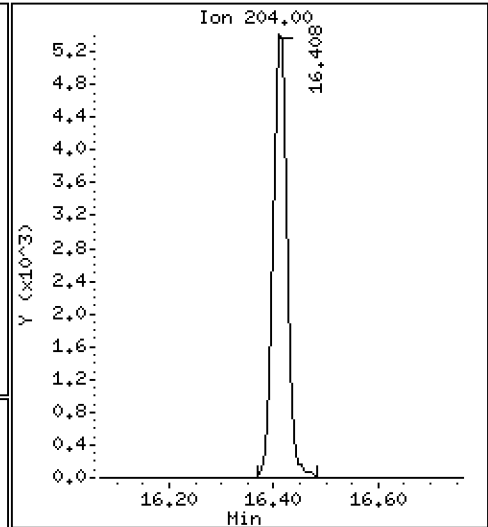
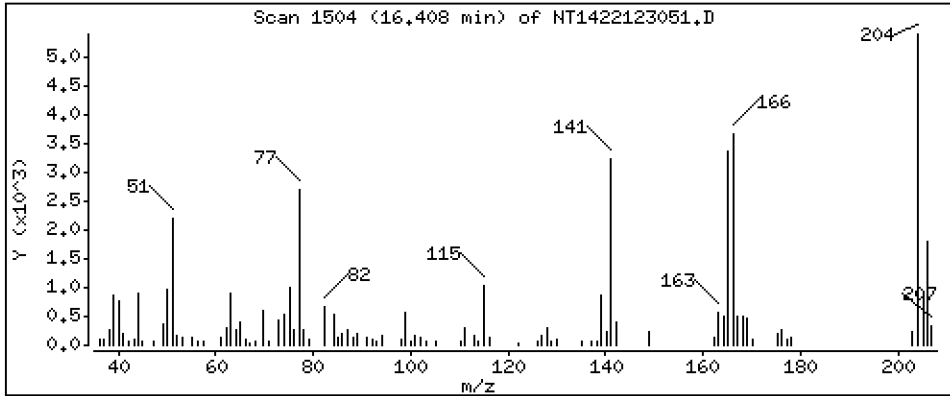
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2138 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

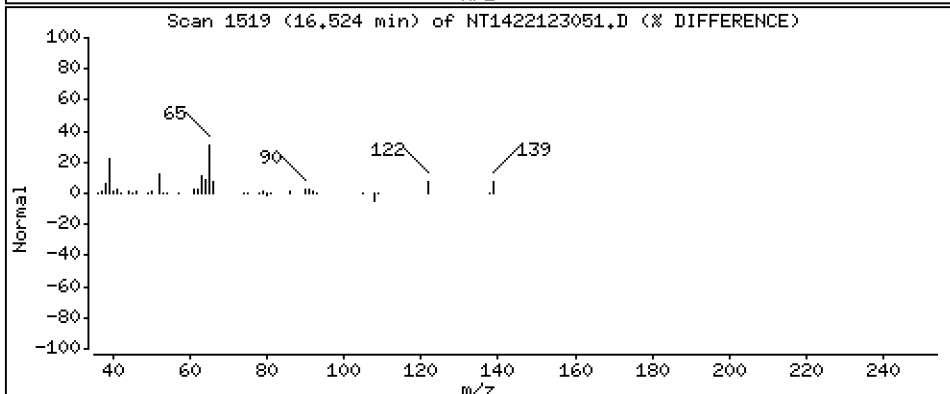
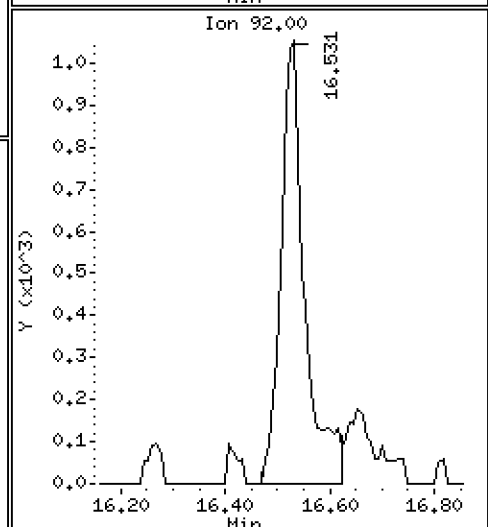
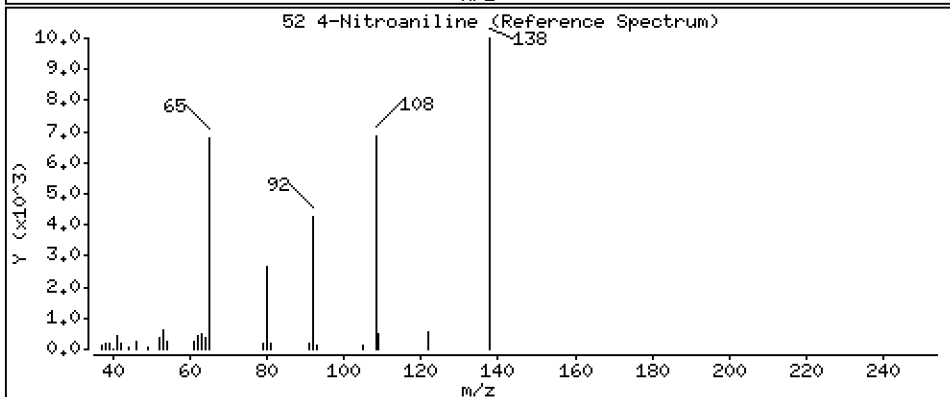
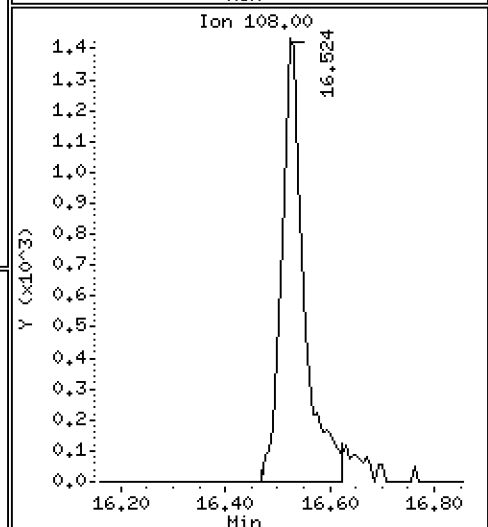
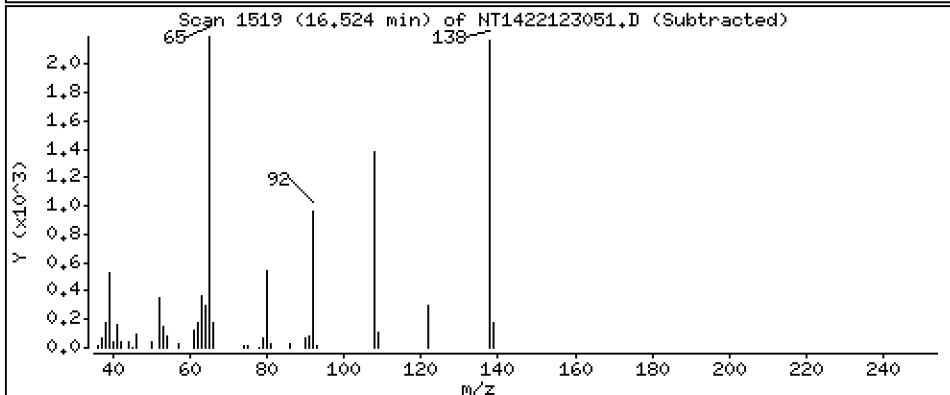
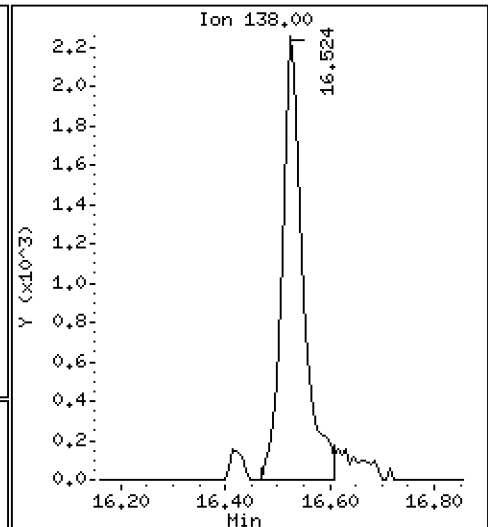
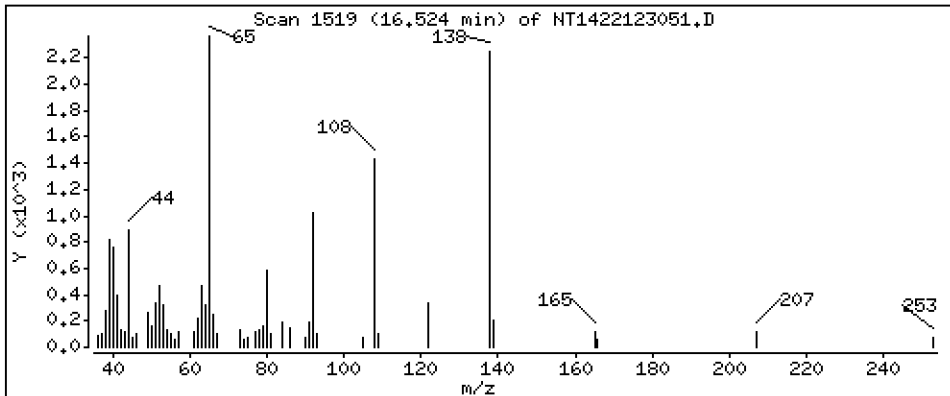
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,3128 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

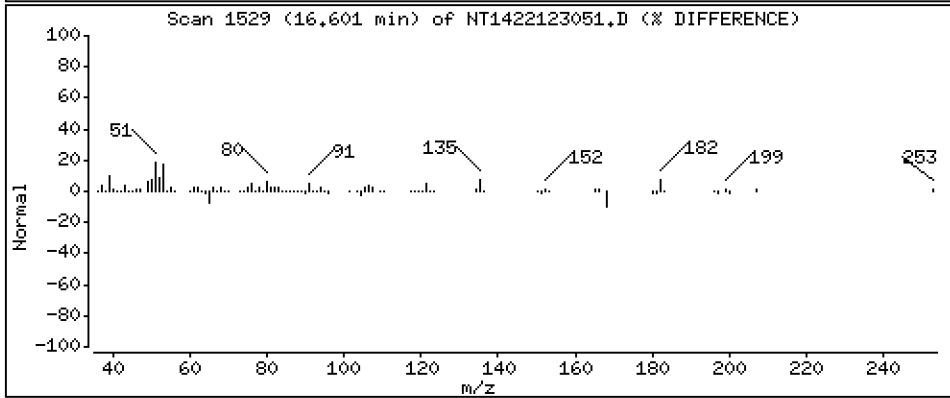
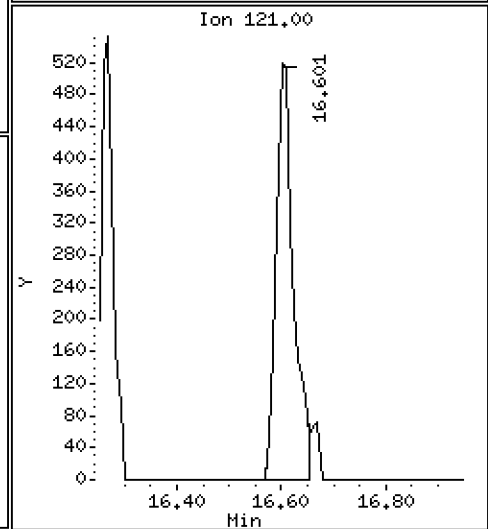
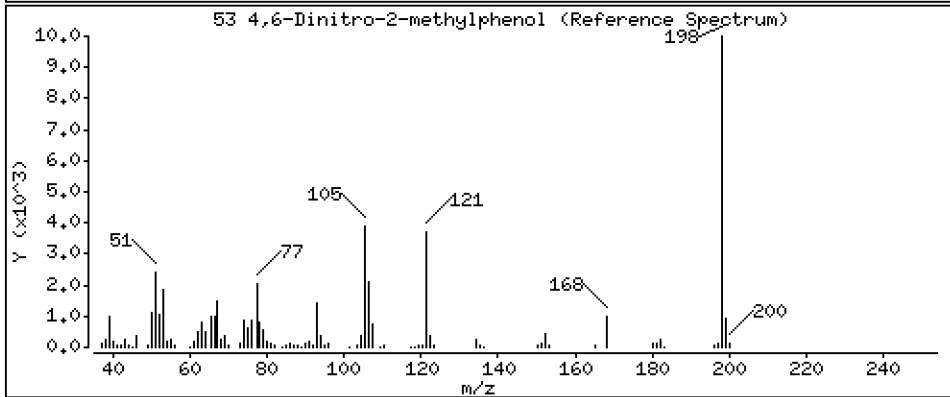
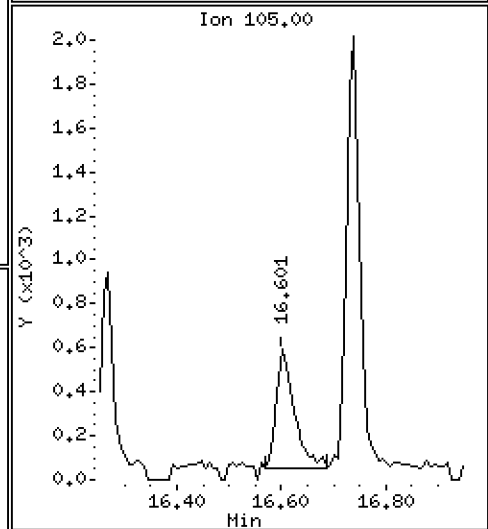
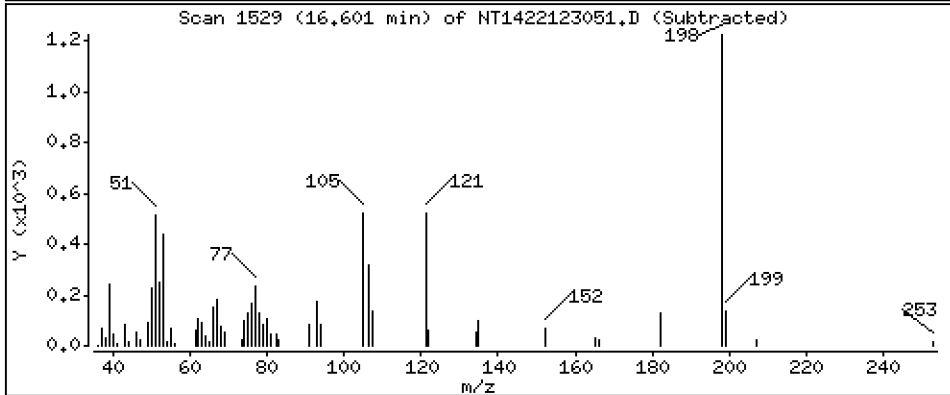
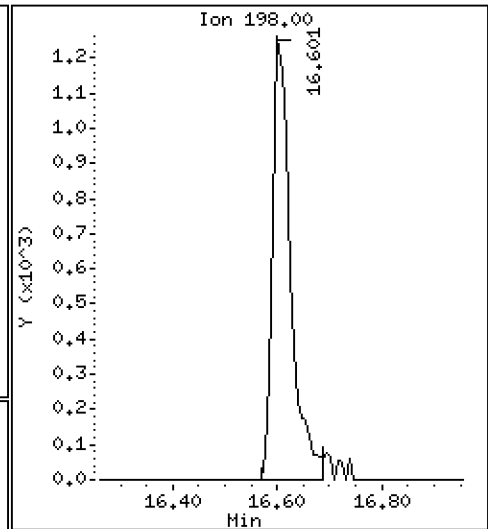
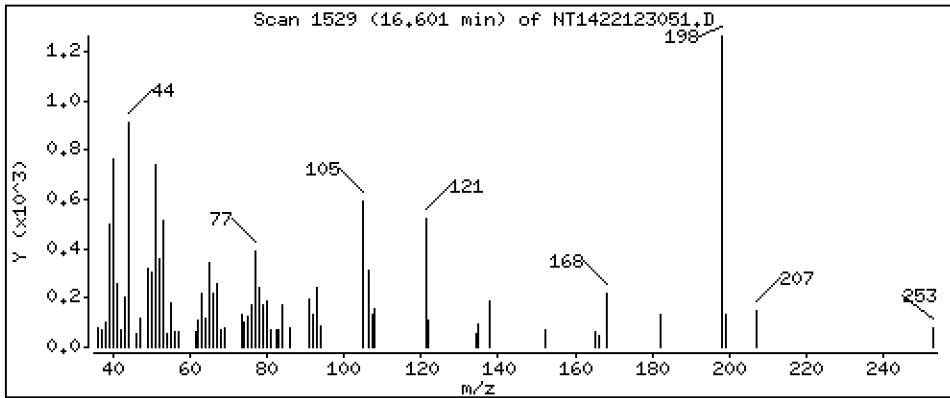
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.2020 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

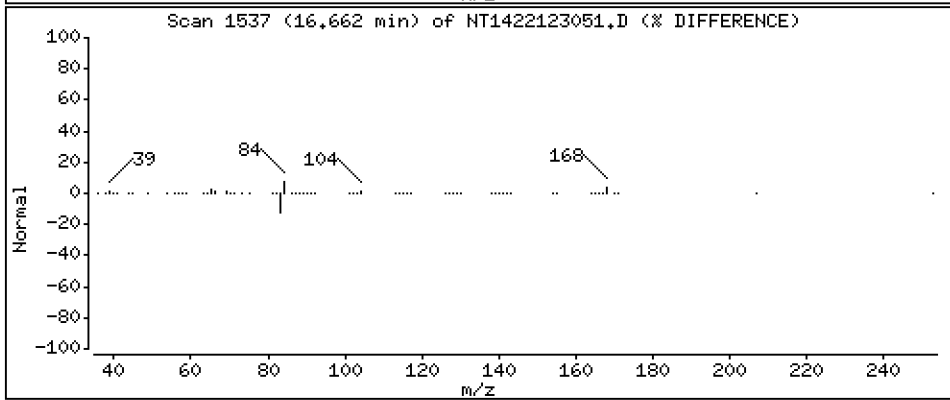
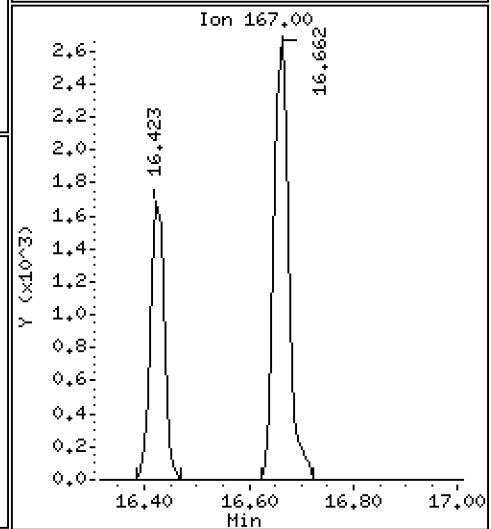
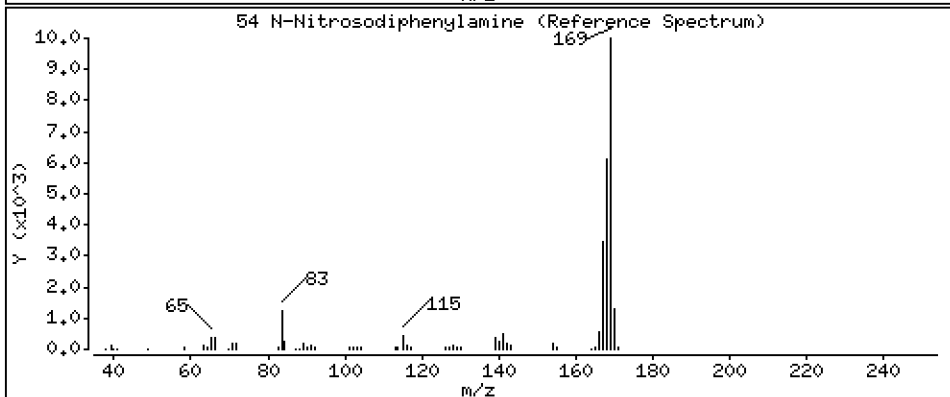
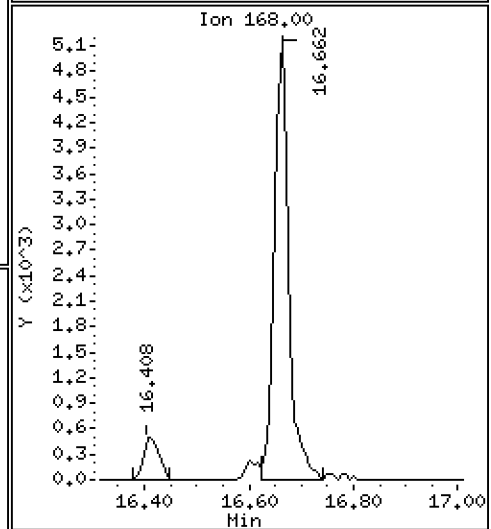
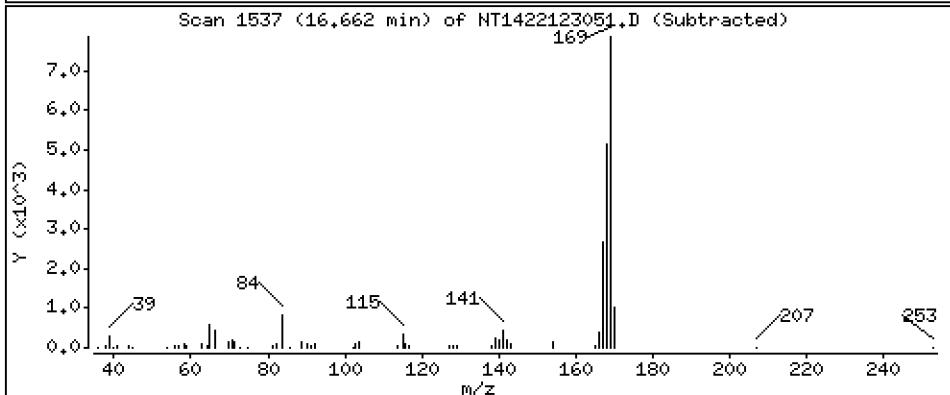
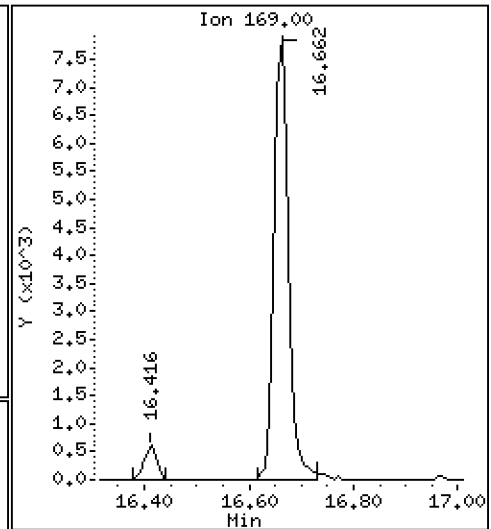
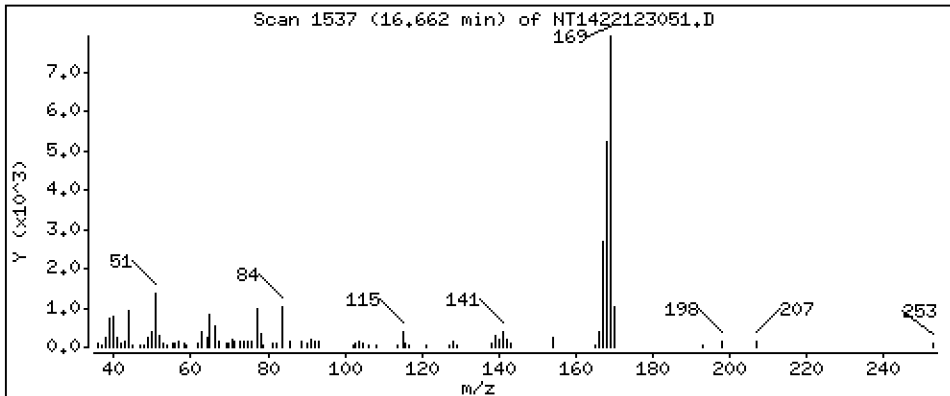
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2422 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

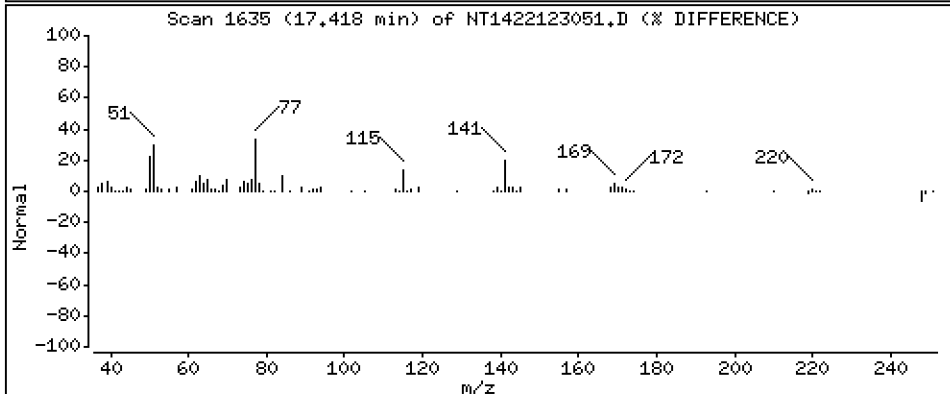
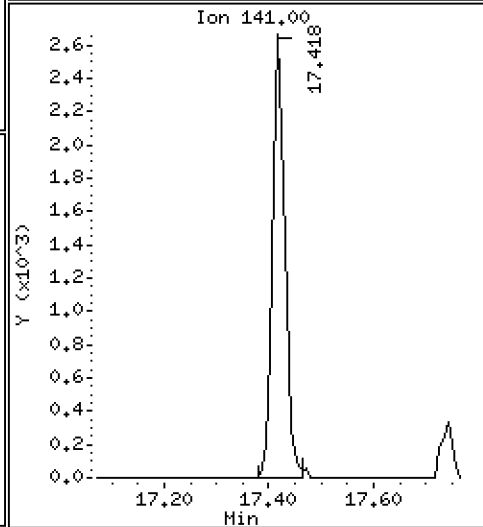
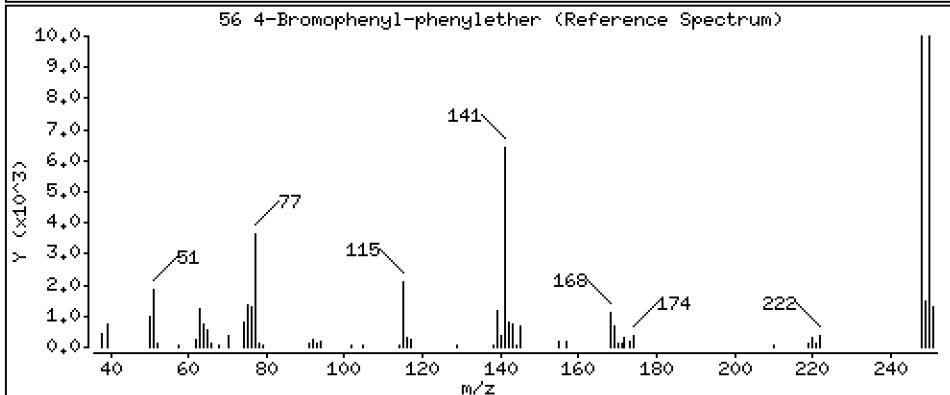
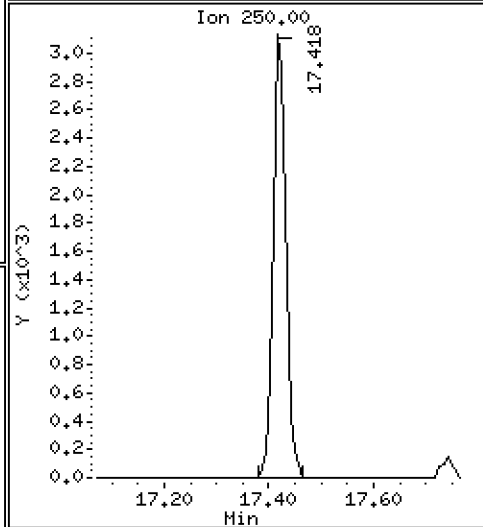
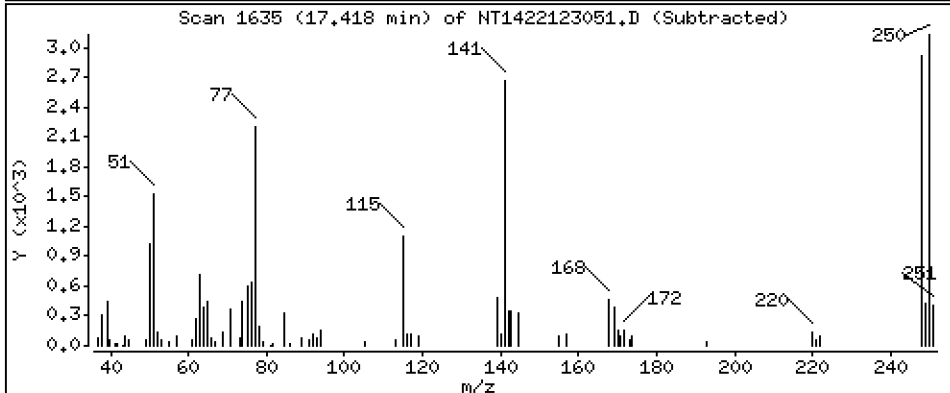
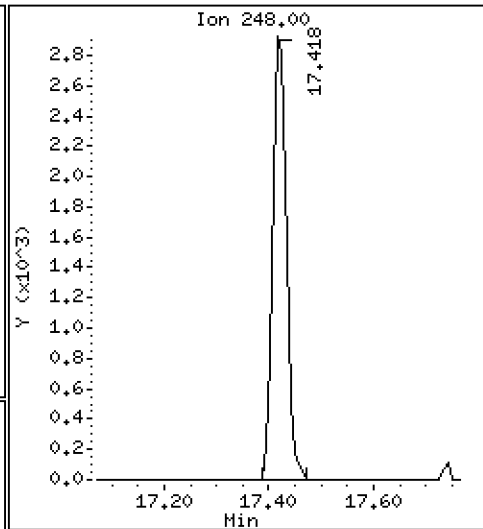
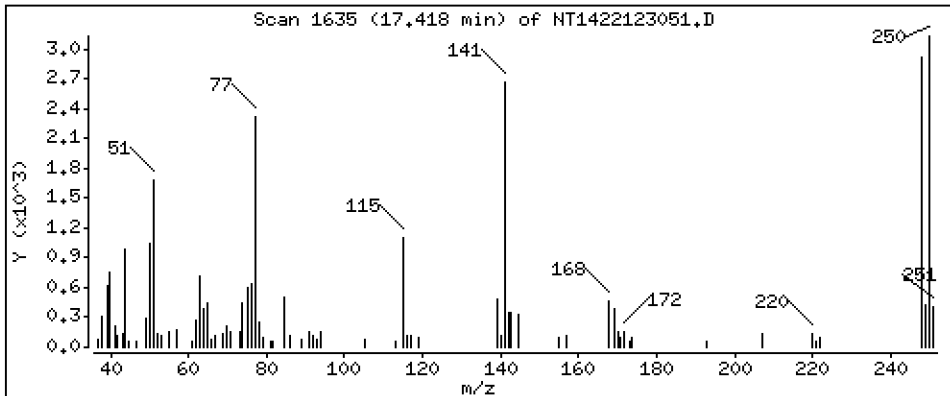
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,2274 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

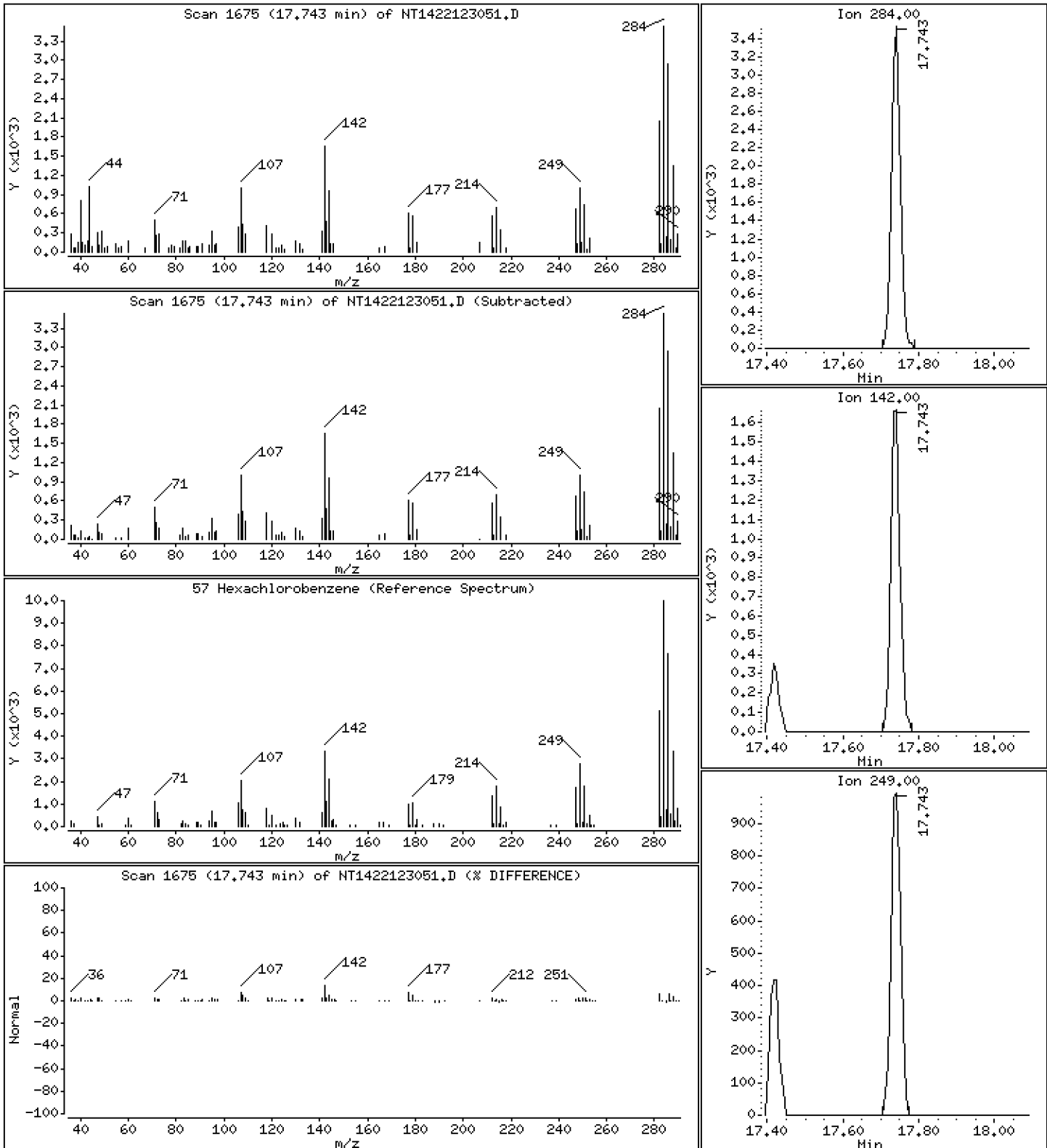
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2291 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

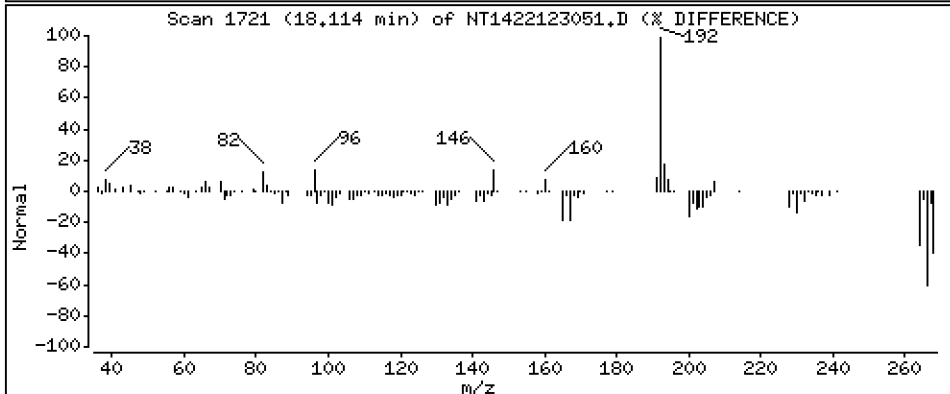
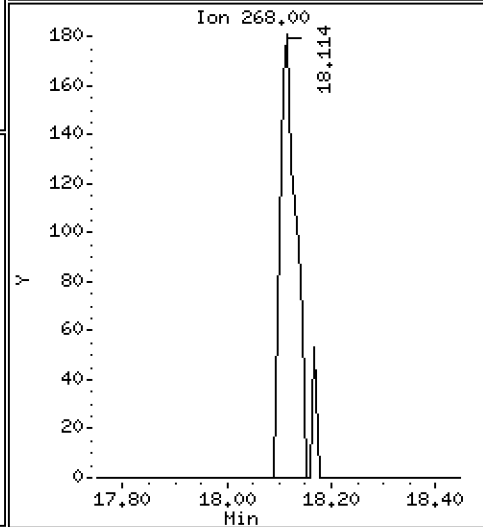
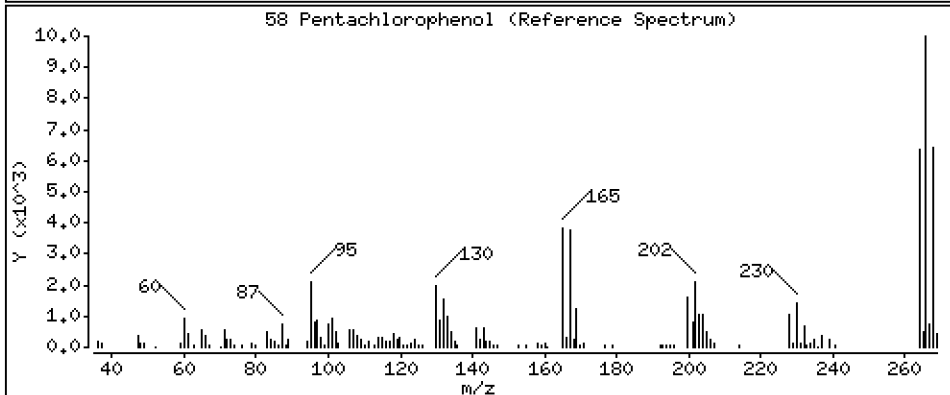
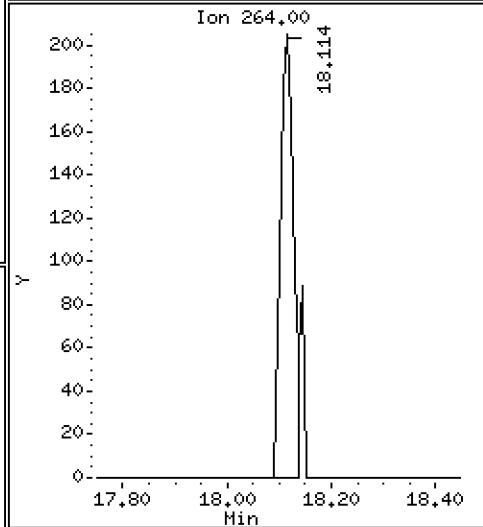
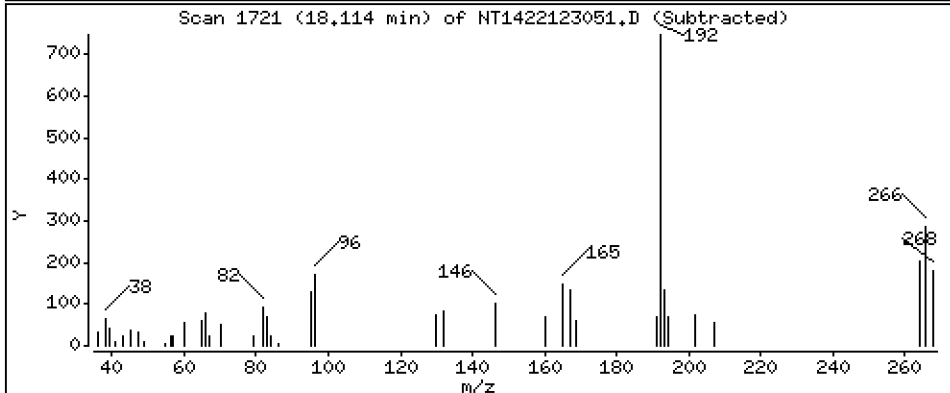
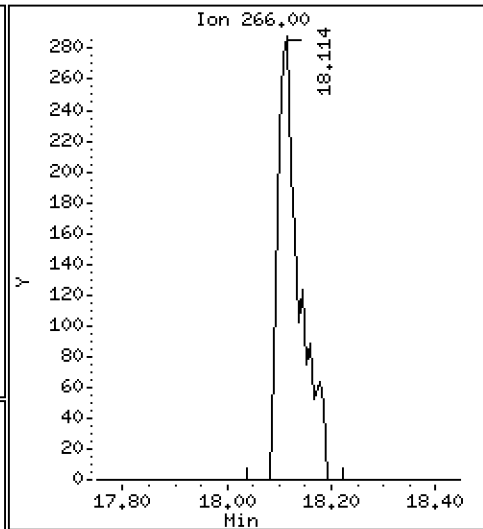
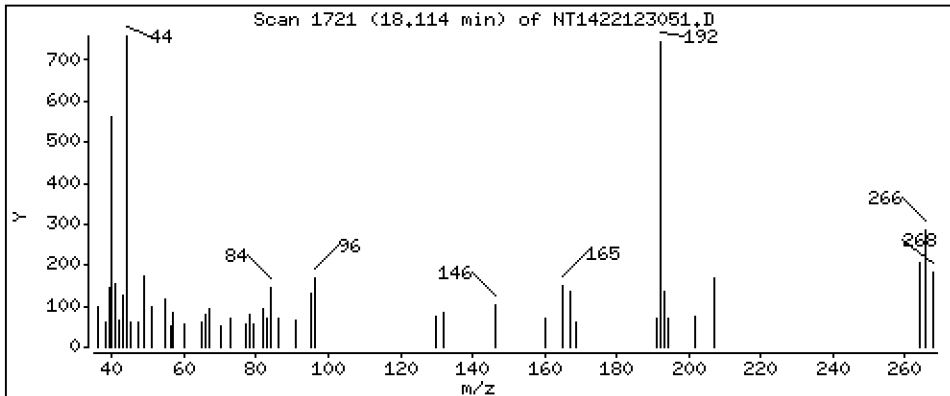
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,07669 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

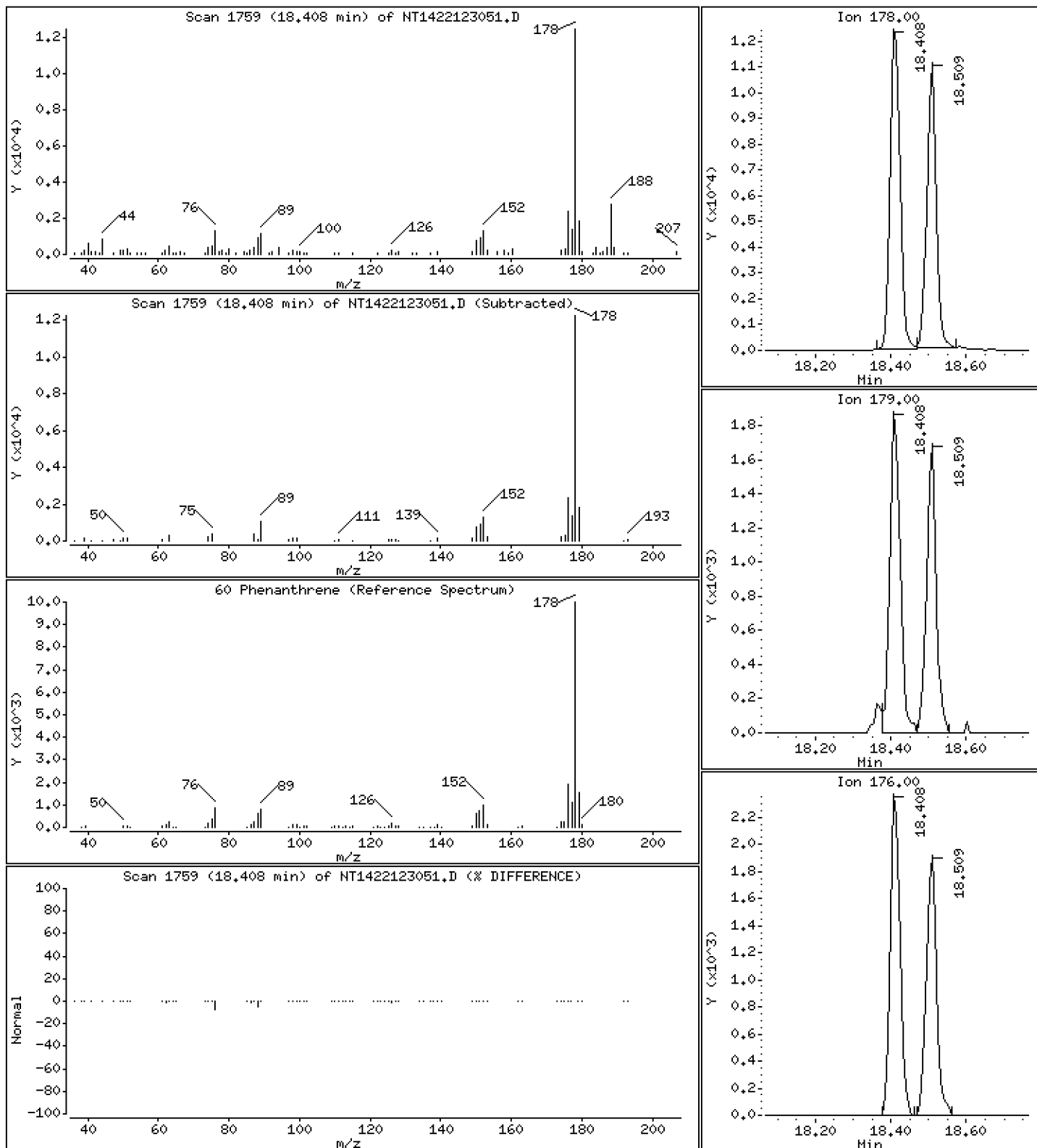
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

60 Phenanthrene

Concentration: 0.2415 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

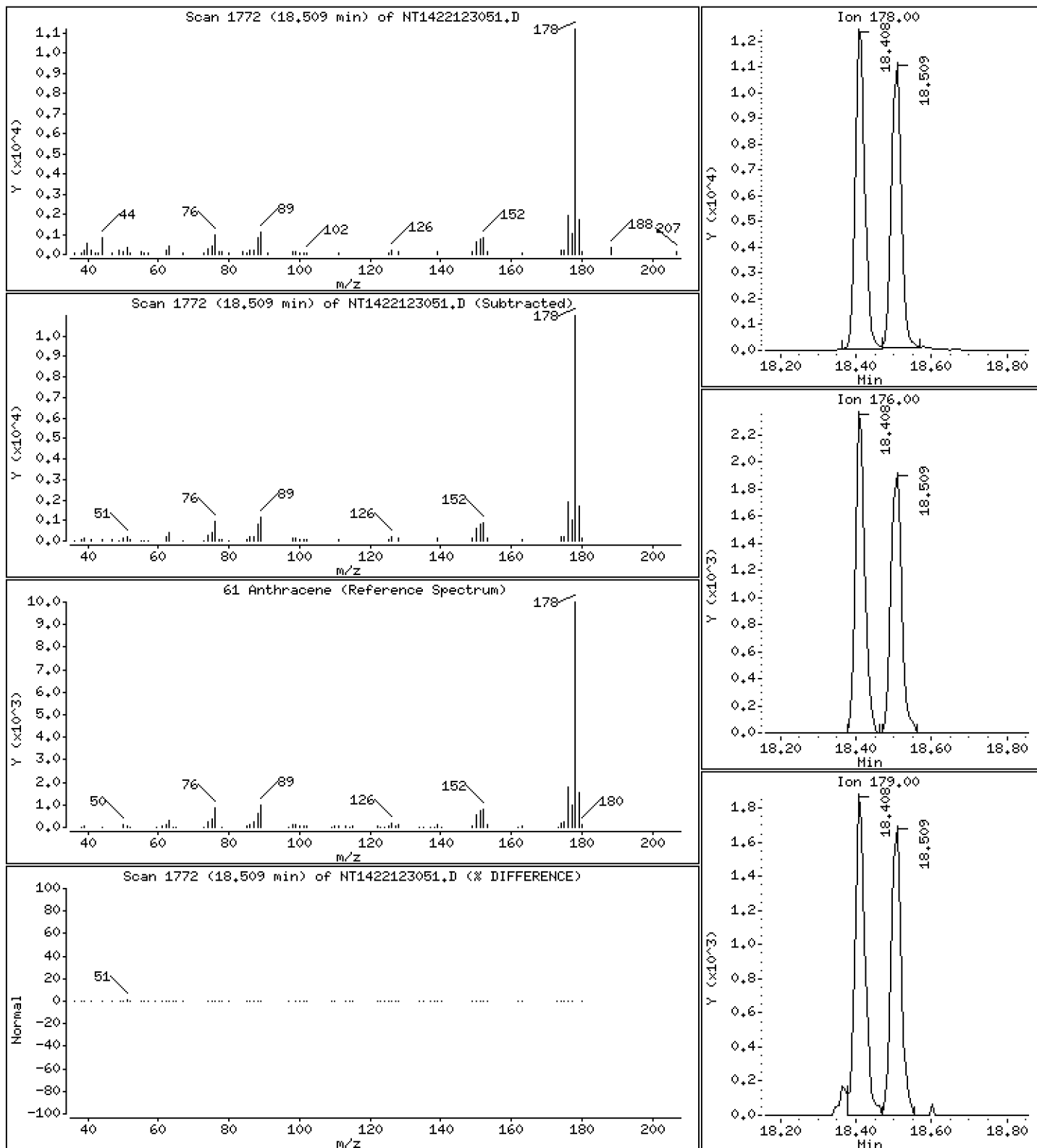
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2183 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

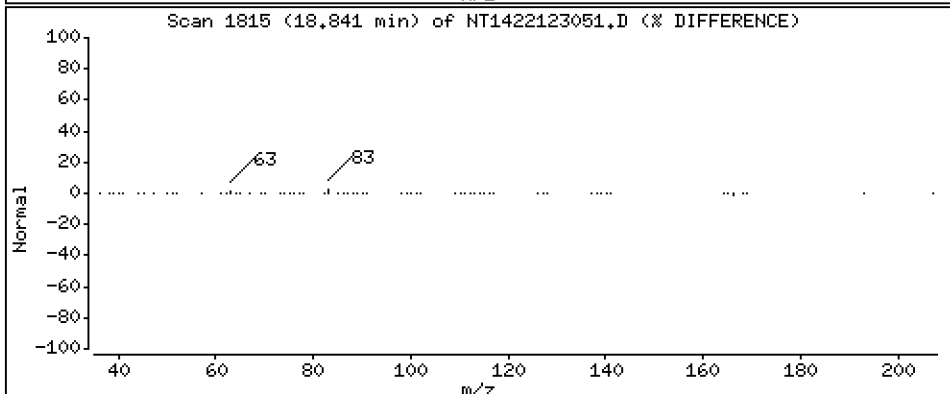
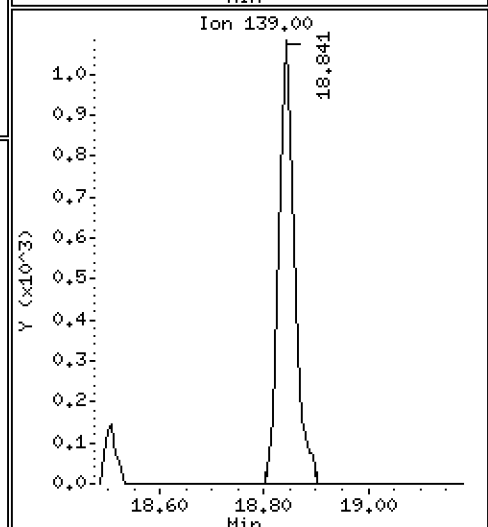
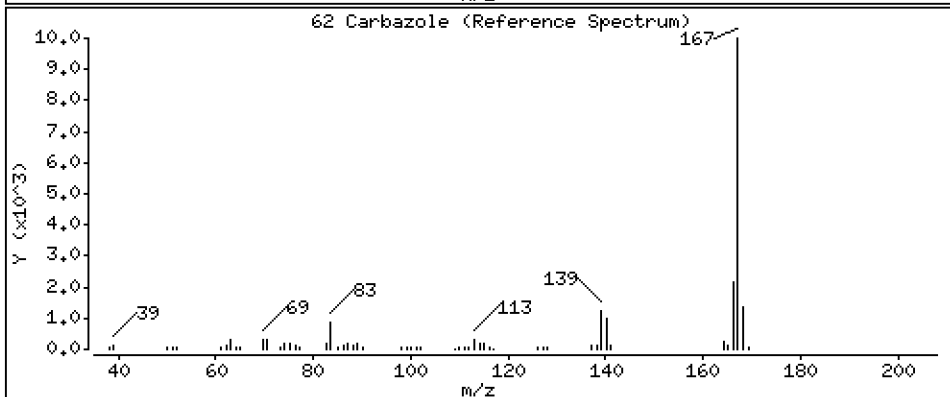
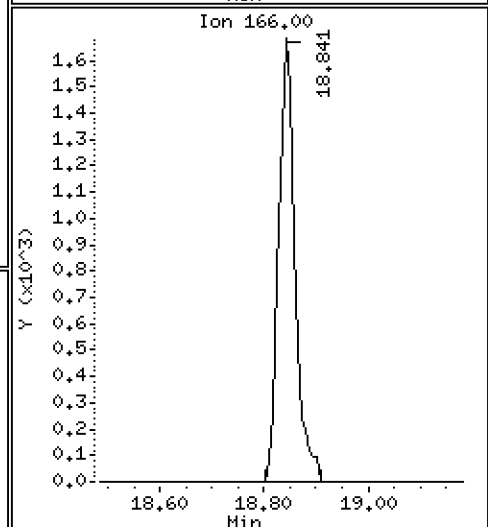
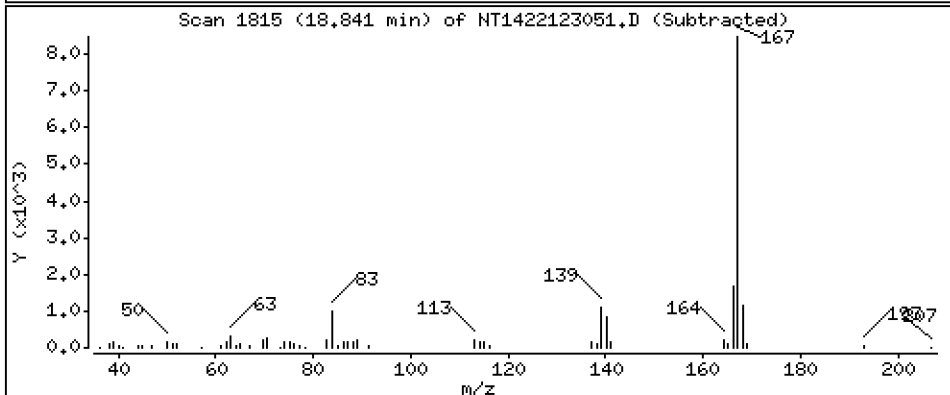
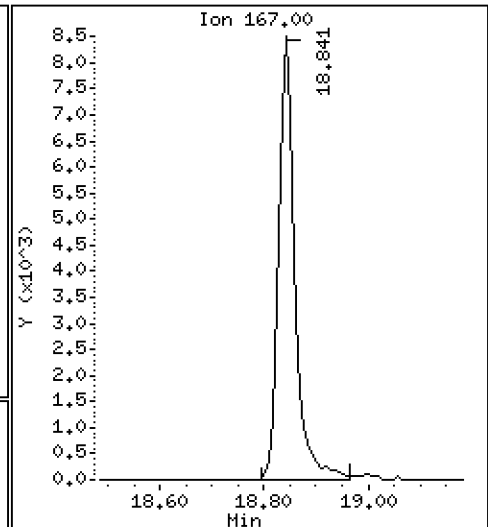
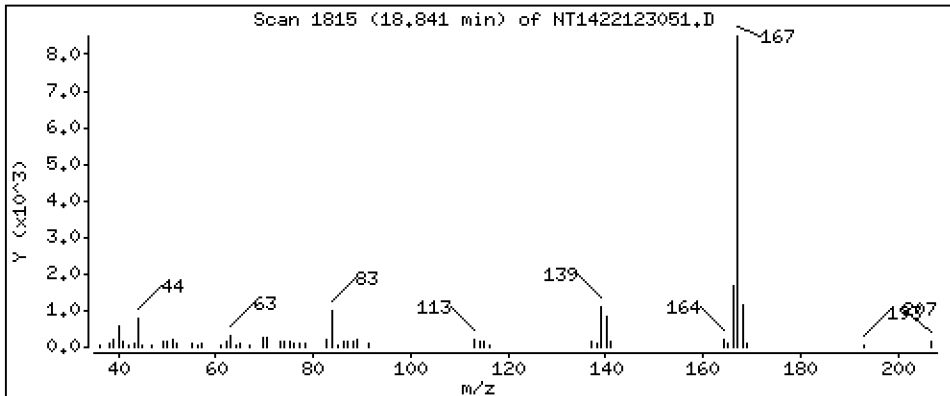
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,2174 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

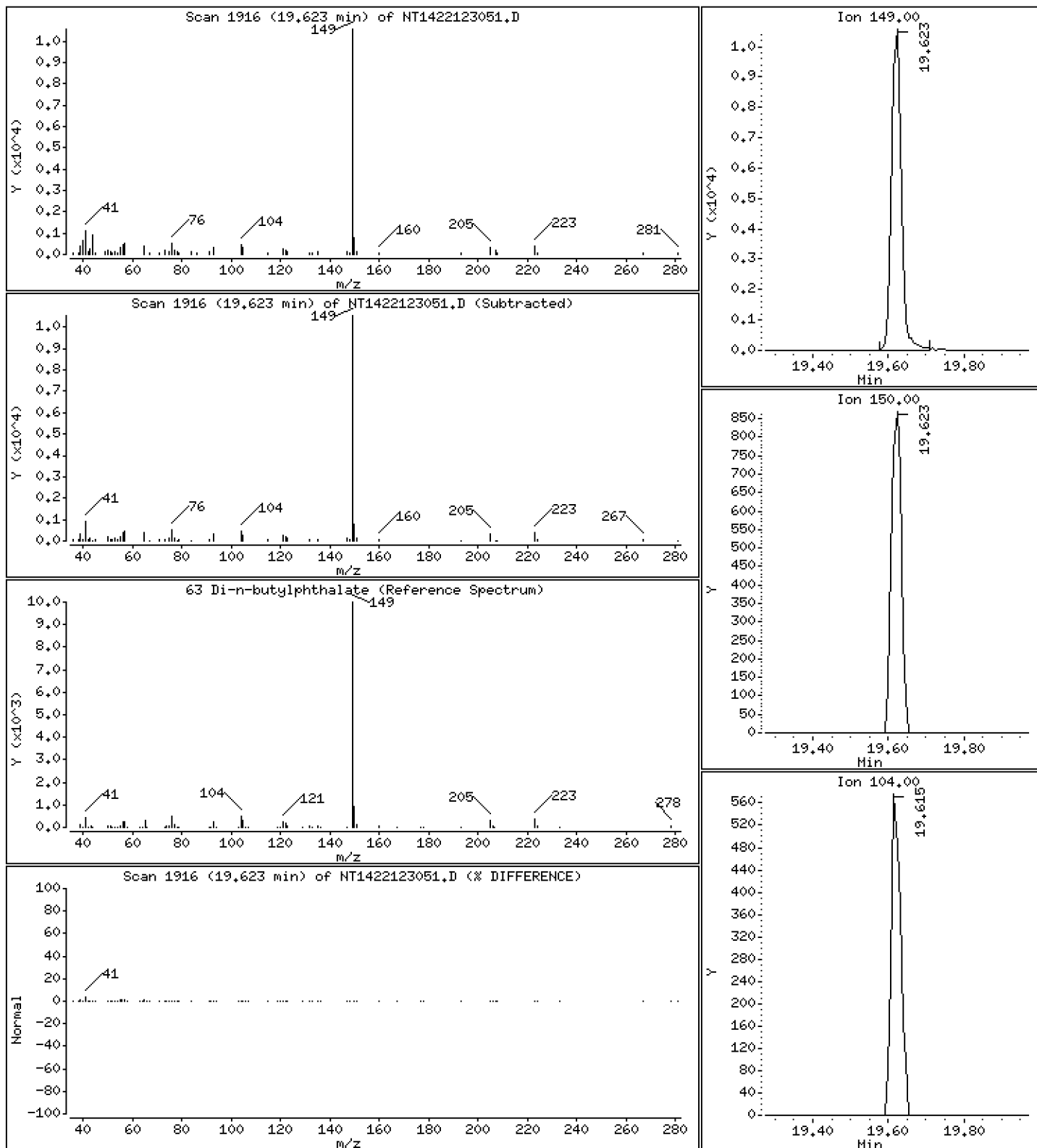
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,1906 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

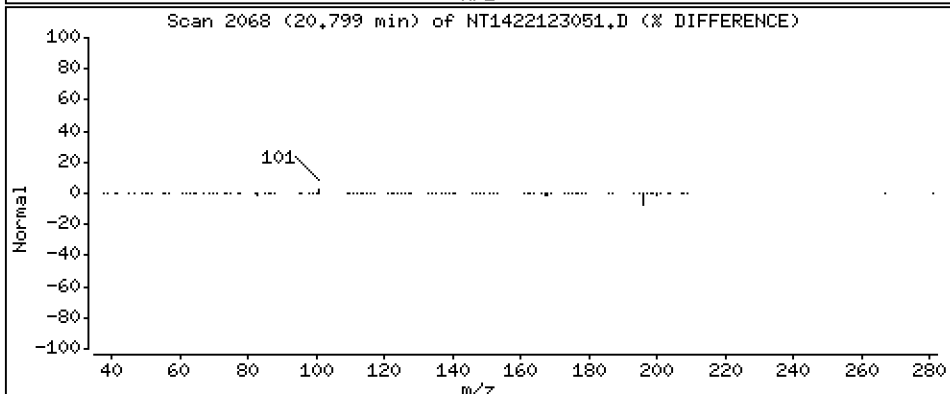
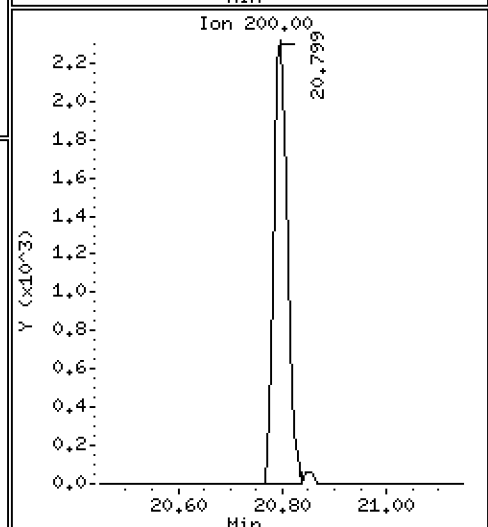
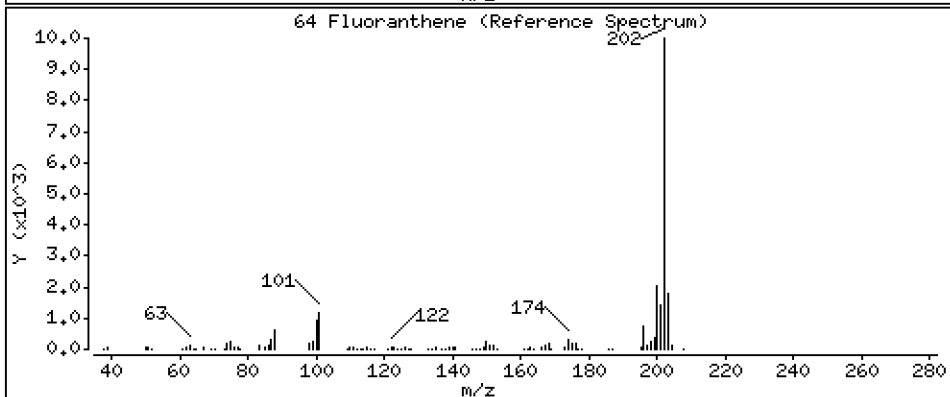
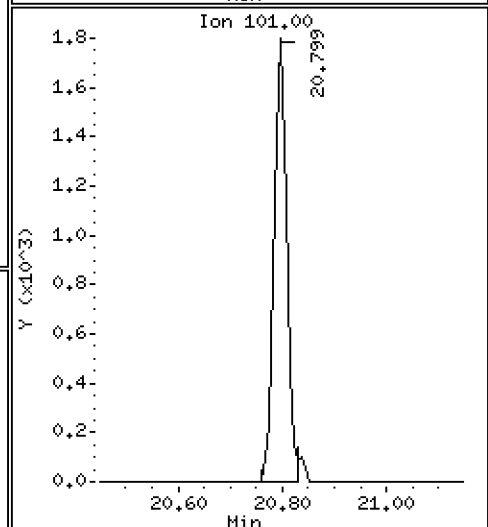
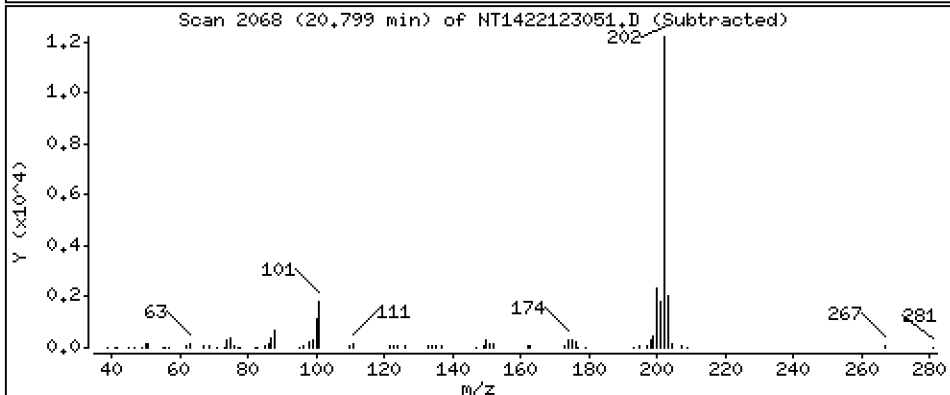
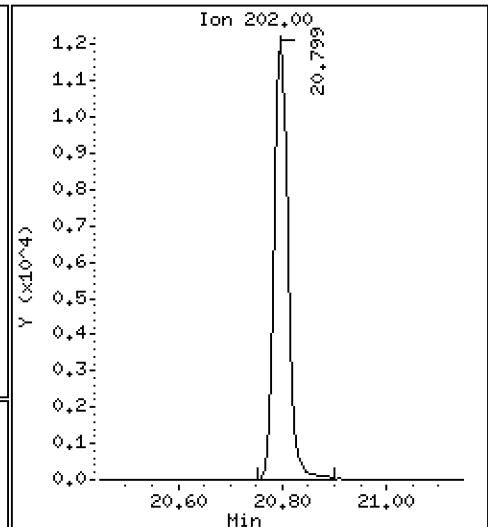
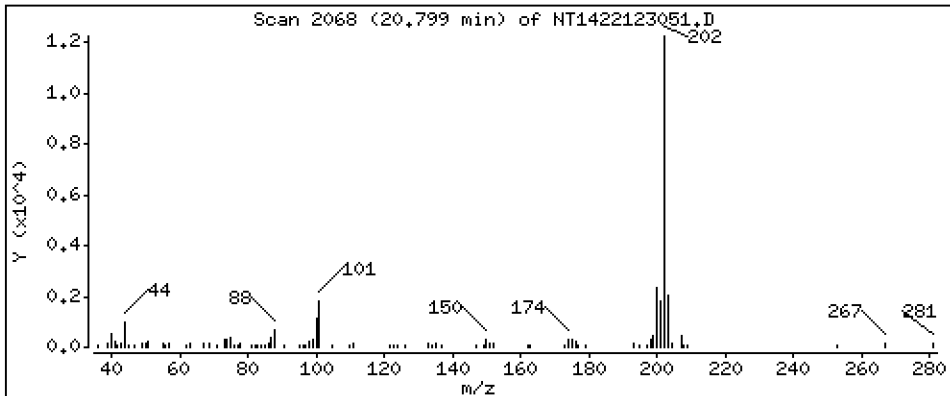
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,2308 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

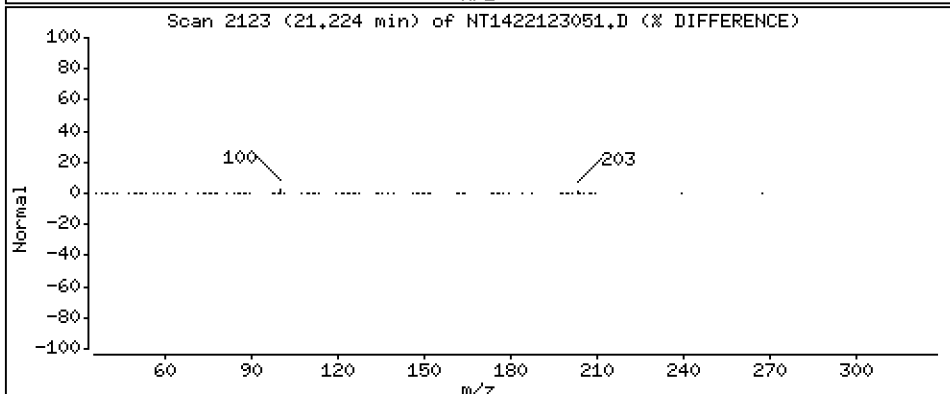
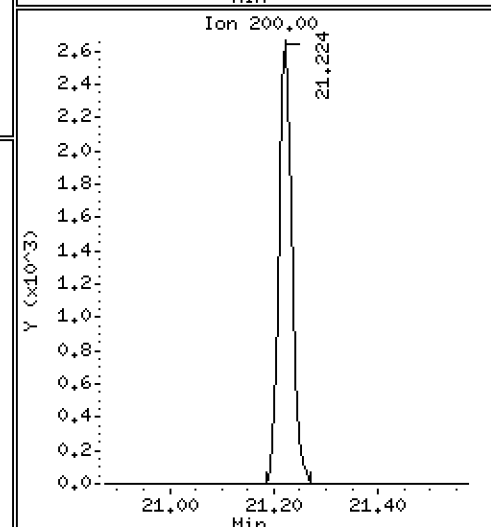
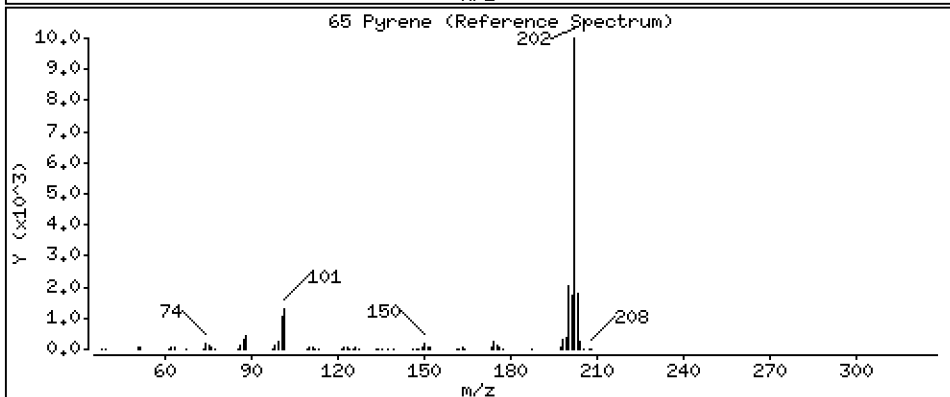
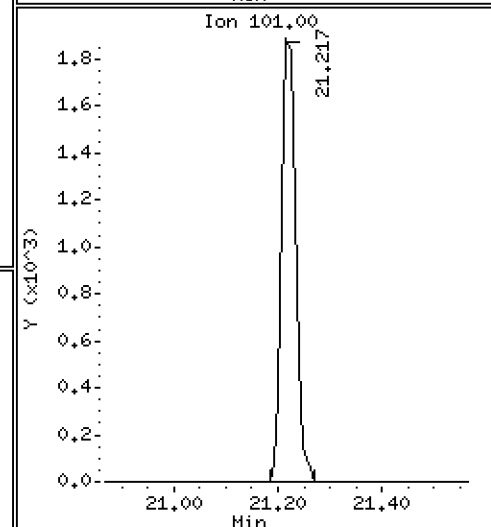
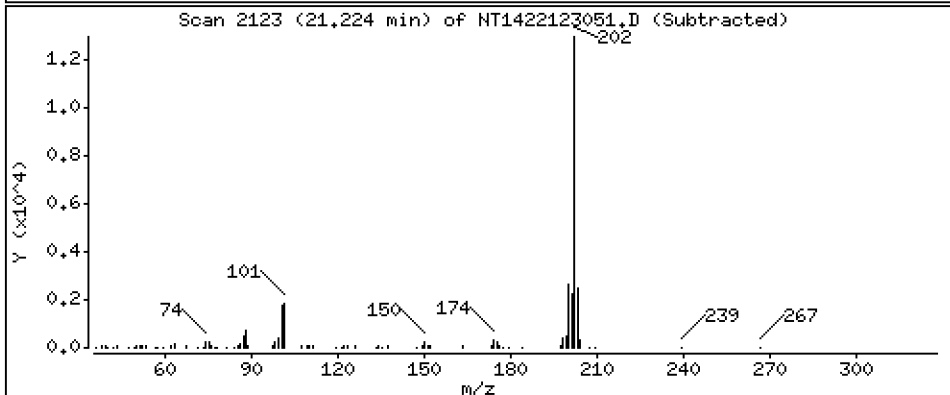
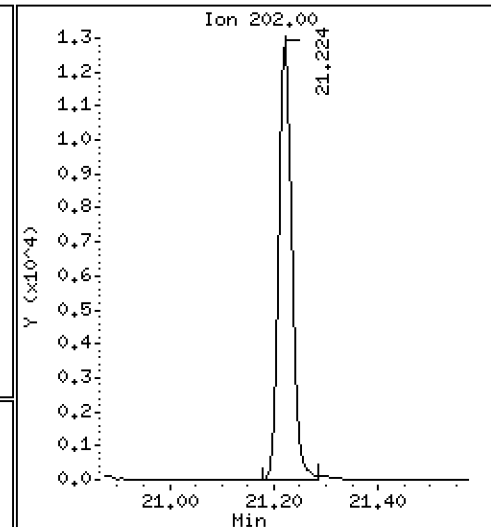
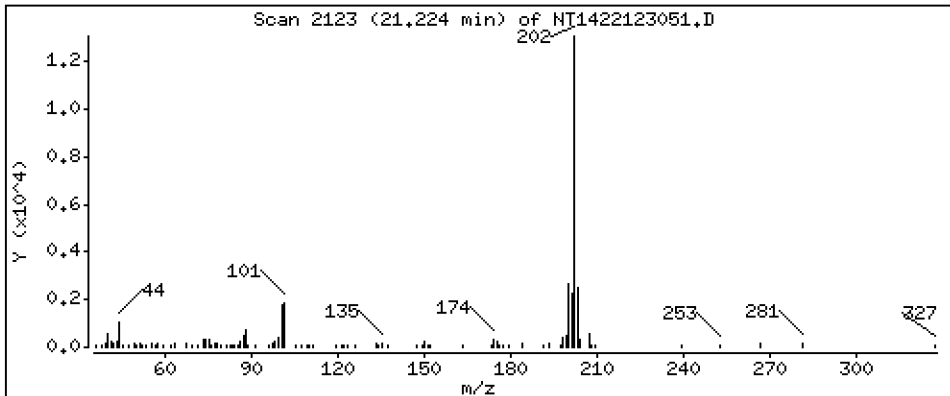
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2212 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

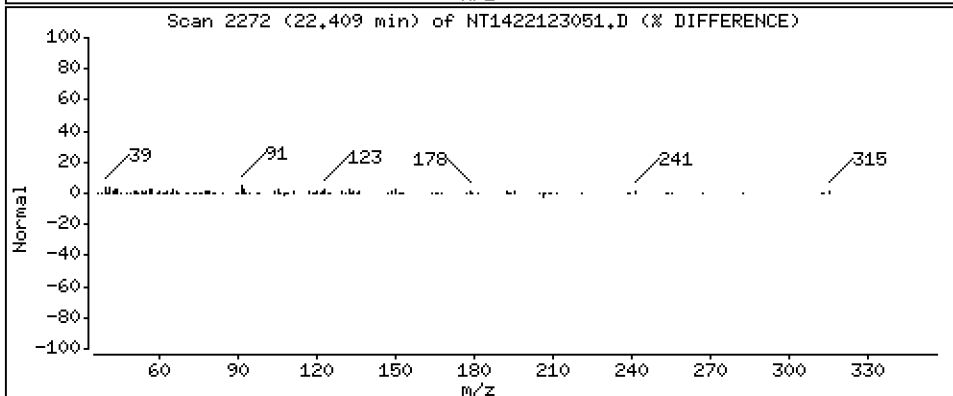
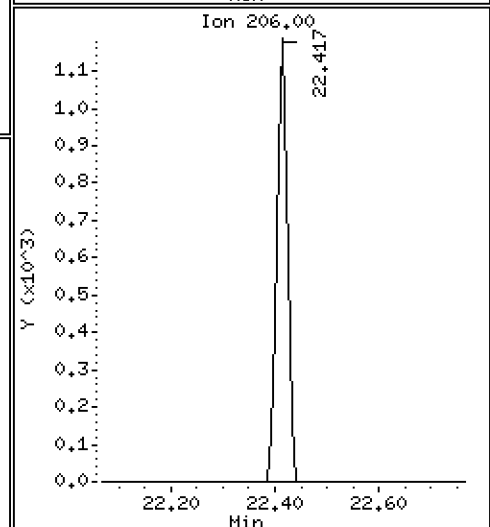
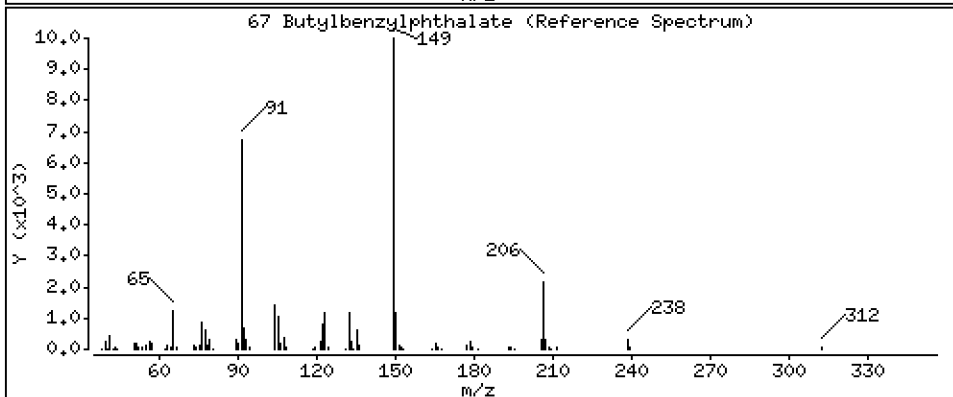
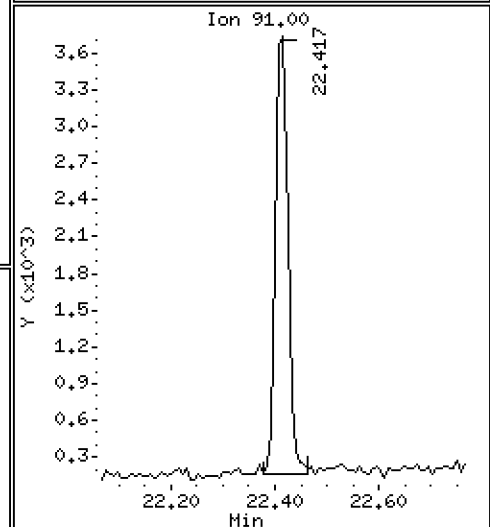
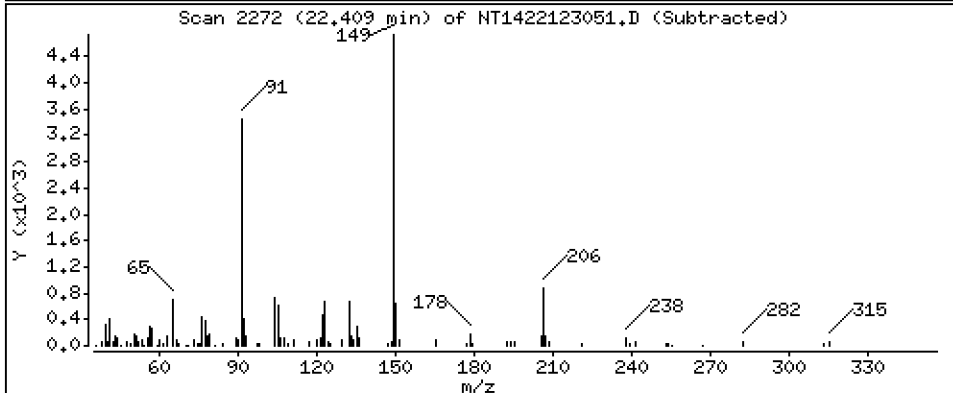
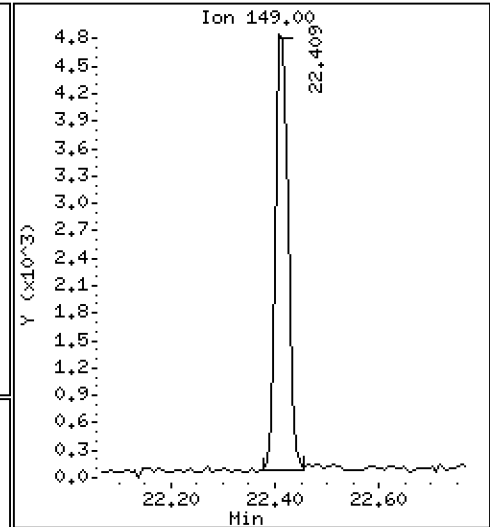
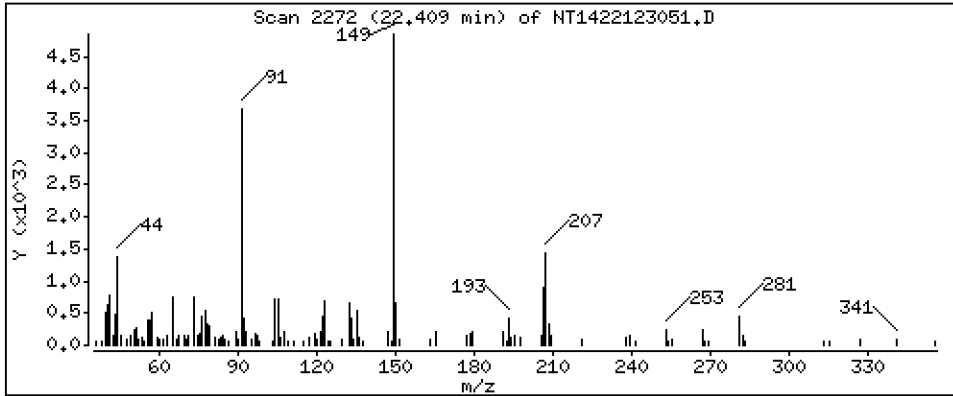
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2080 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

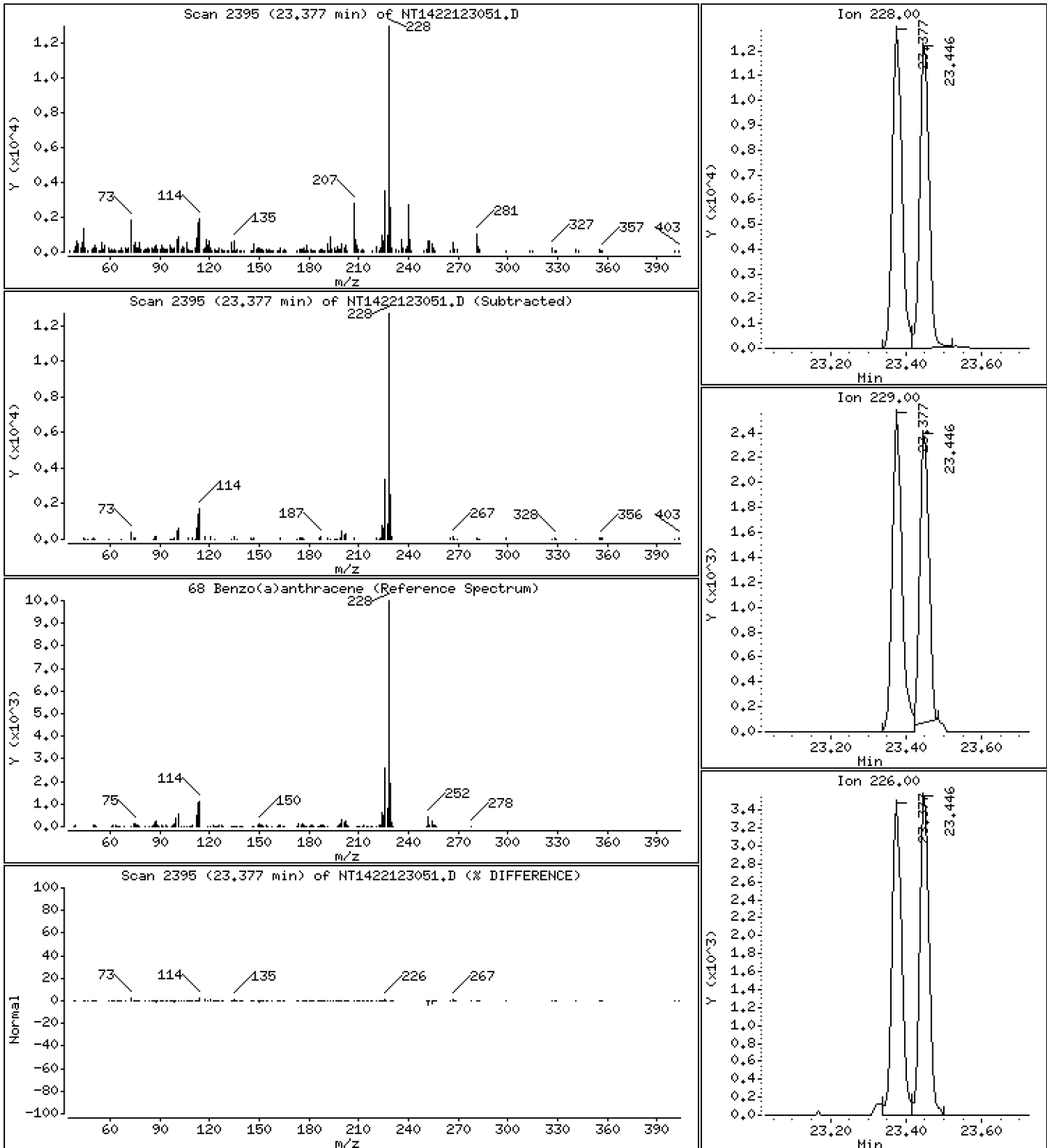
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2415 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

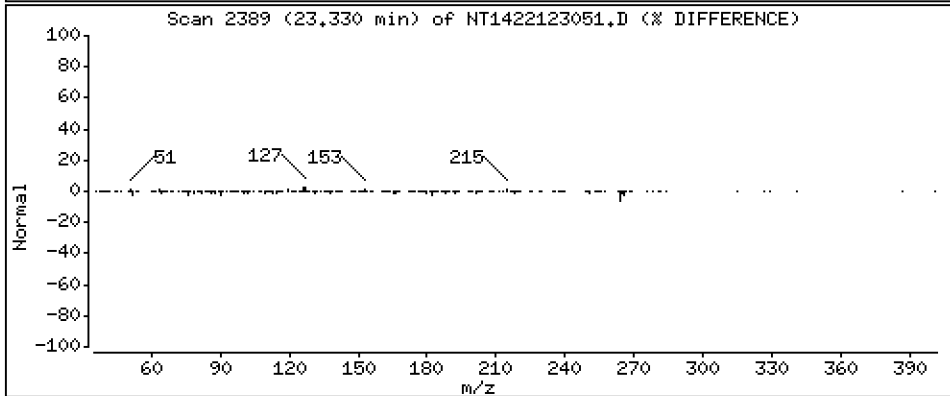
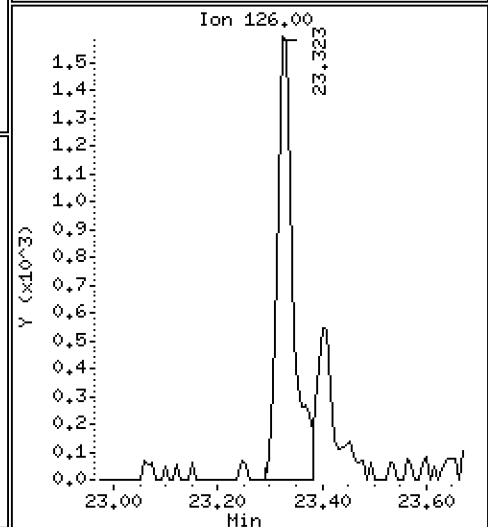
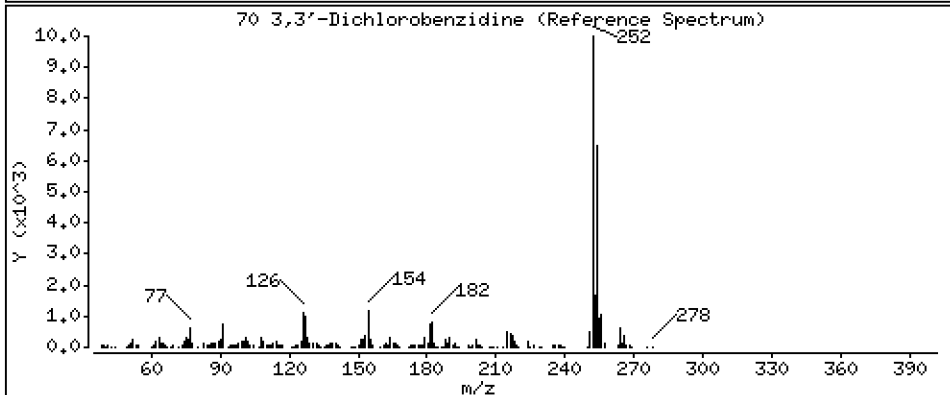
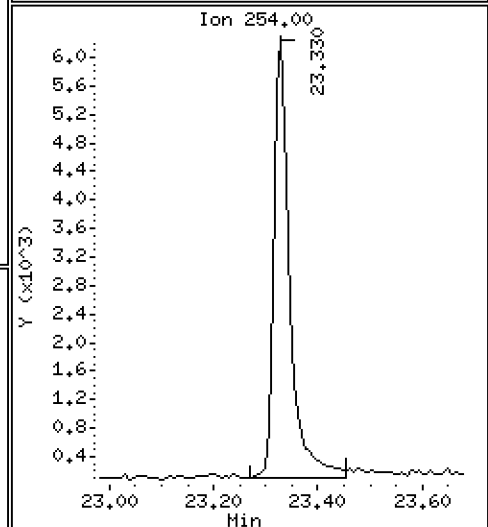
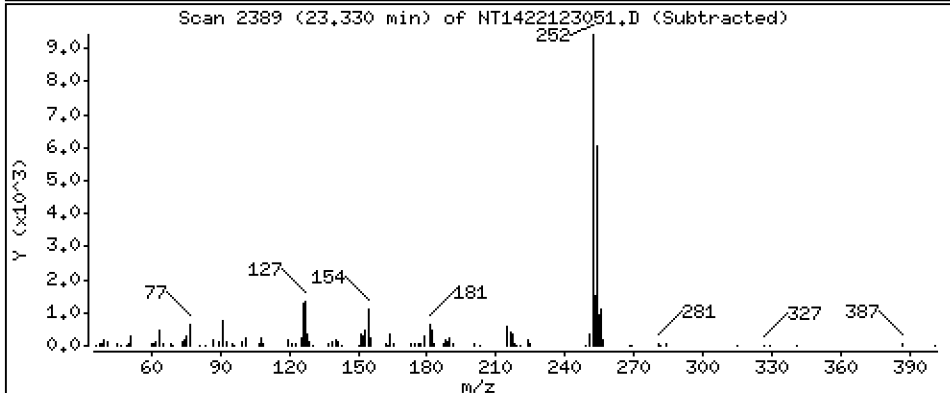
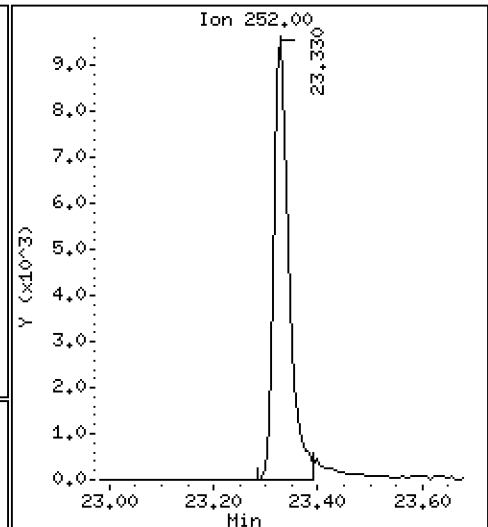
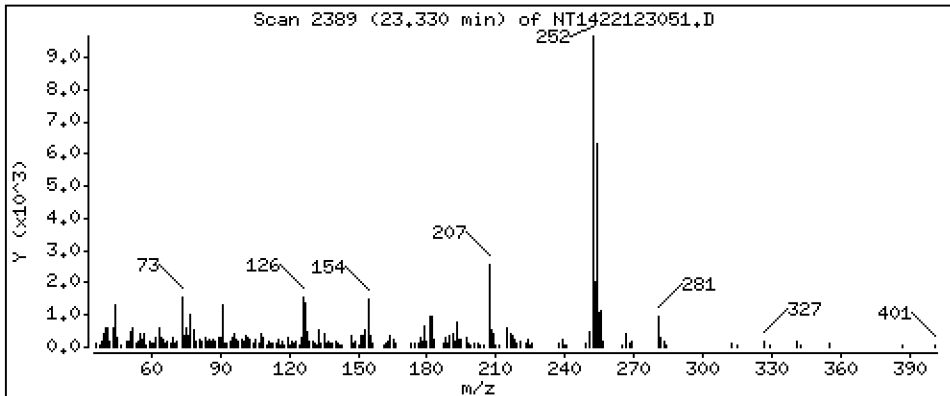
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,6962 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

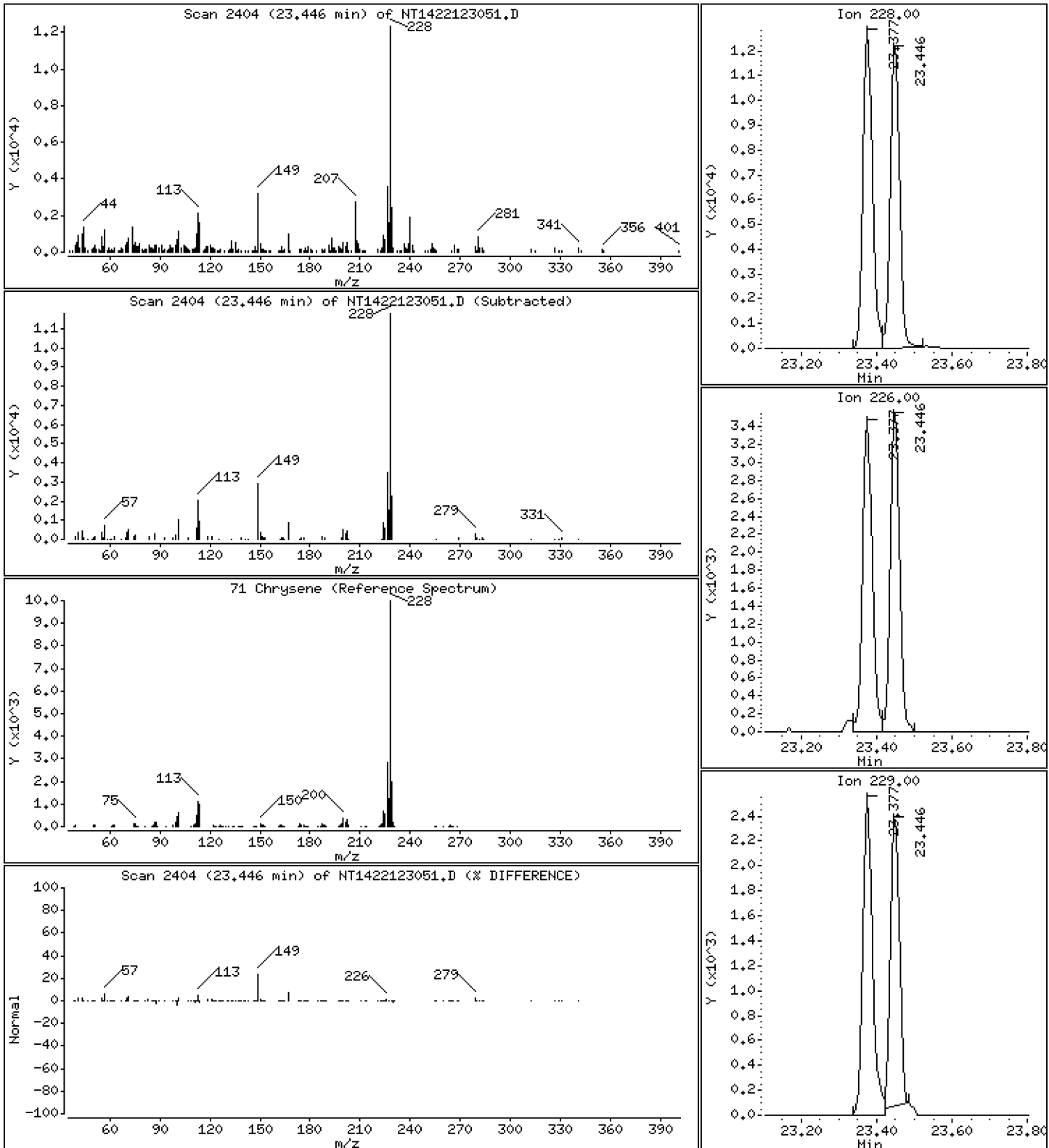
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2414 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

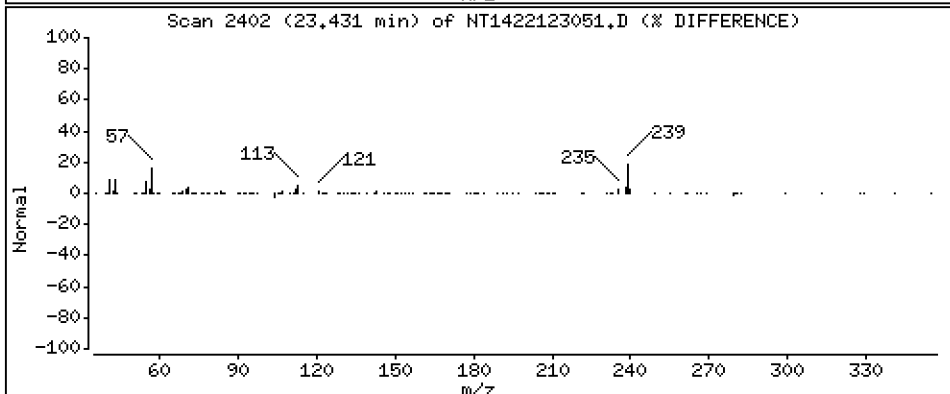
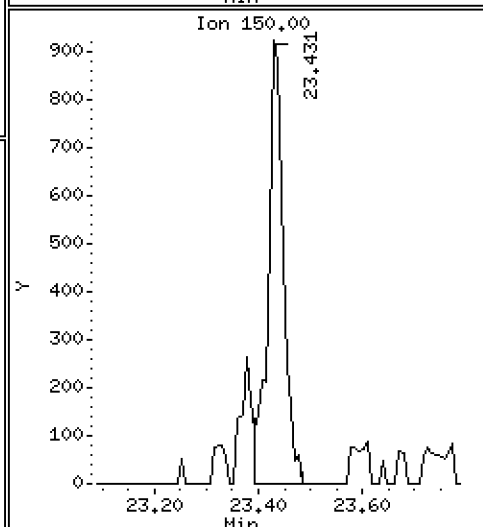
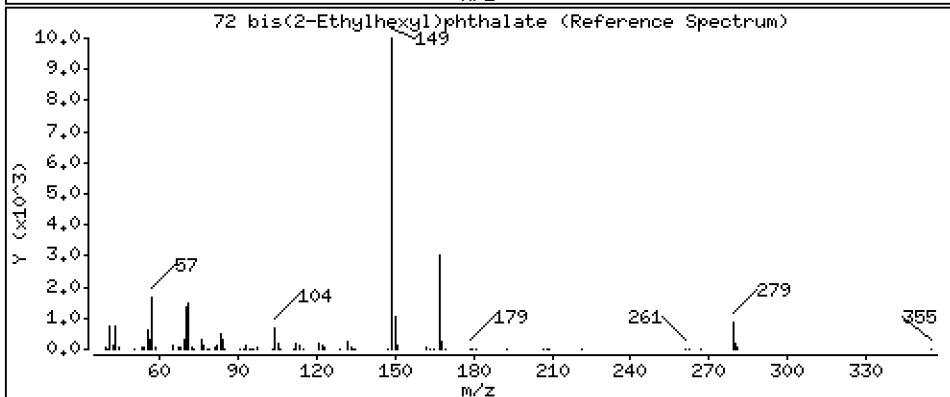
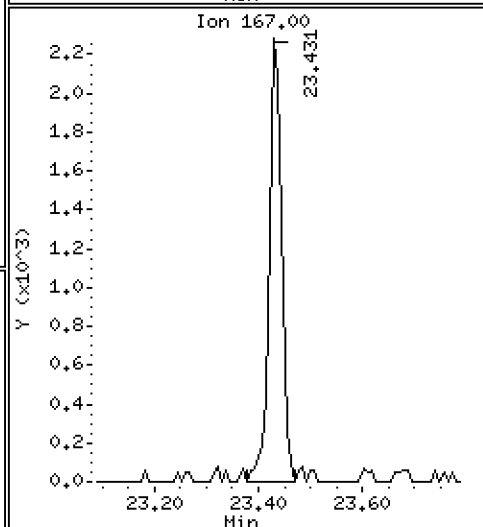
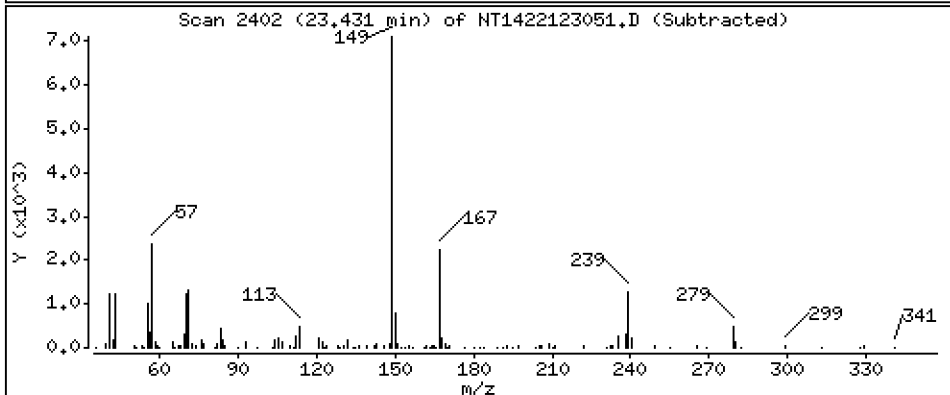
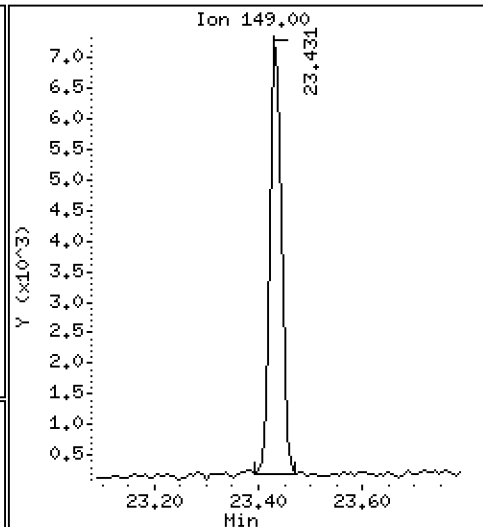
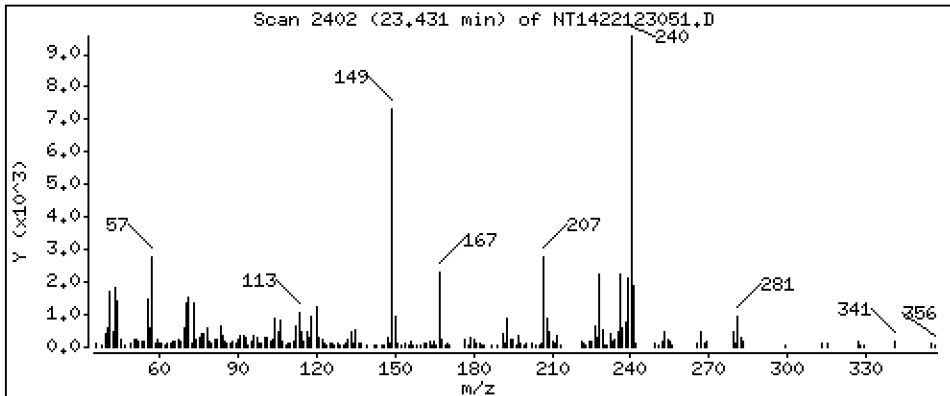
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2185 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

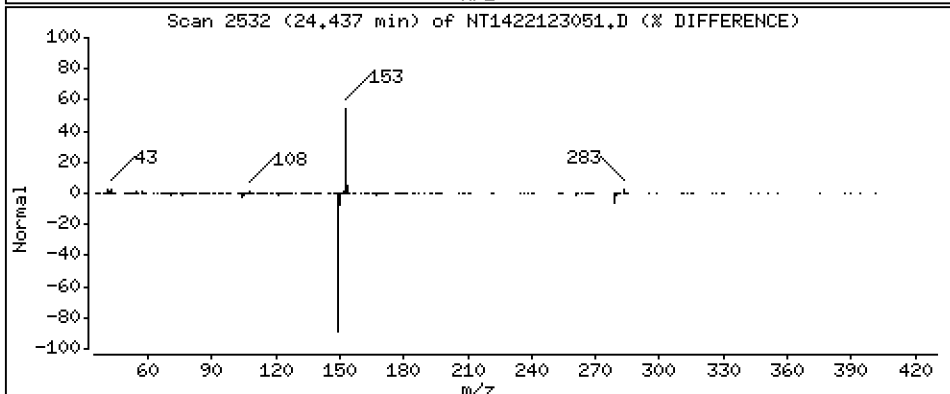
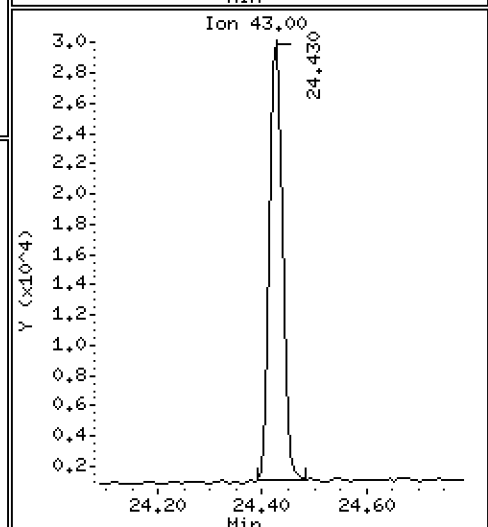
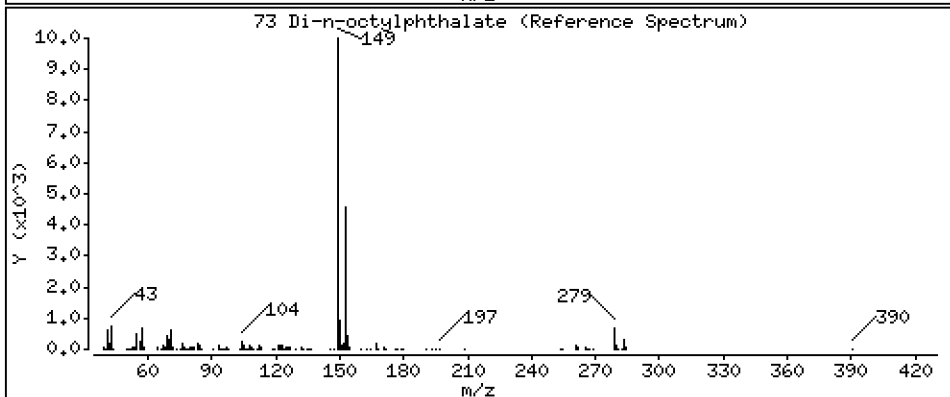
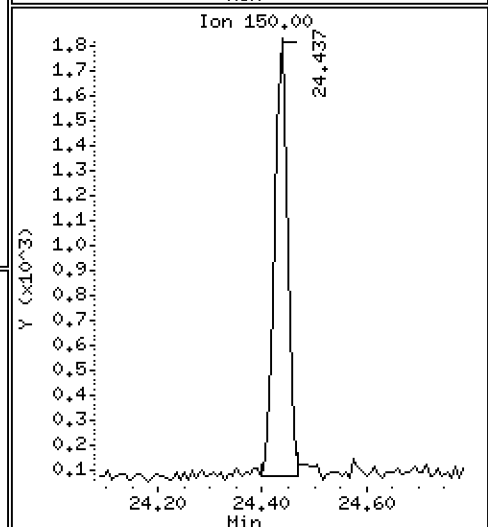
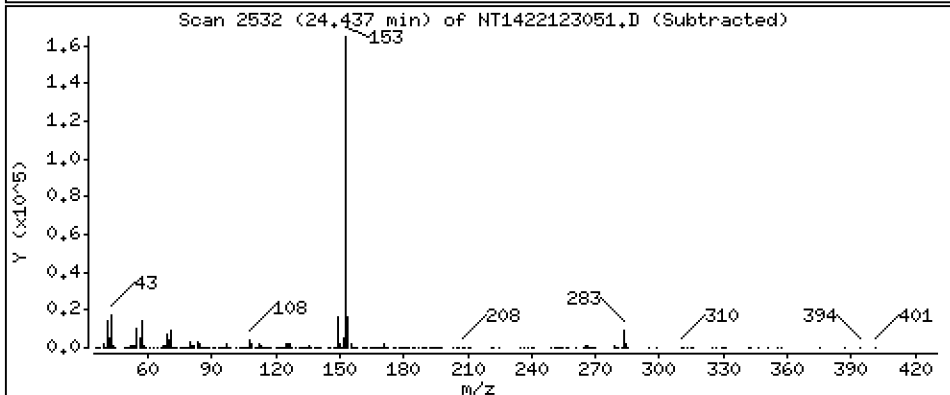
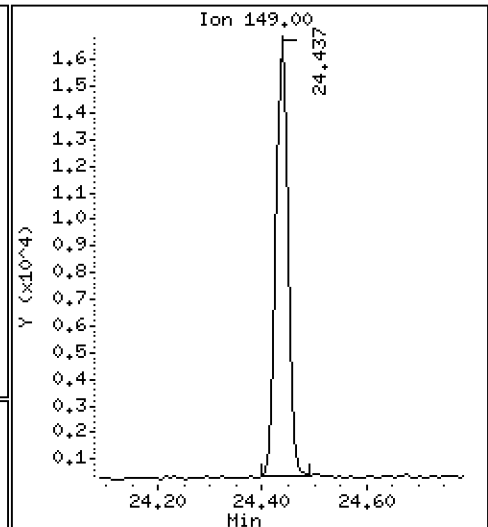
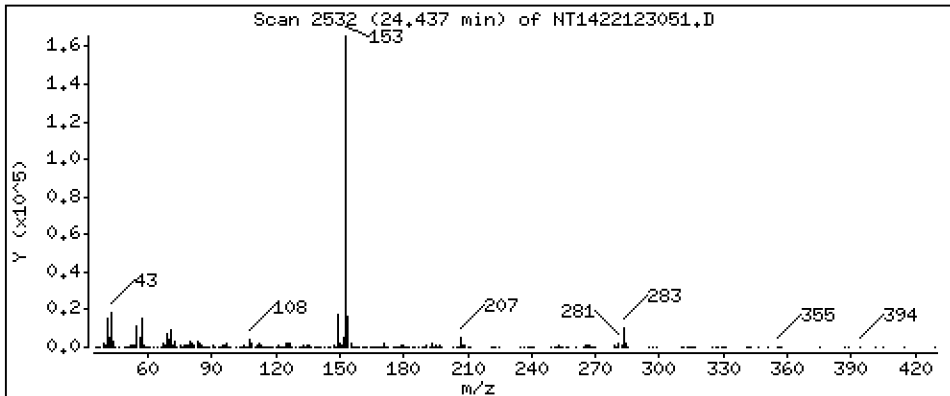
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2419 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

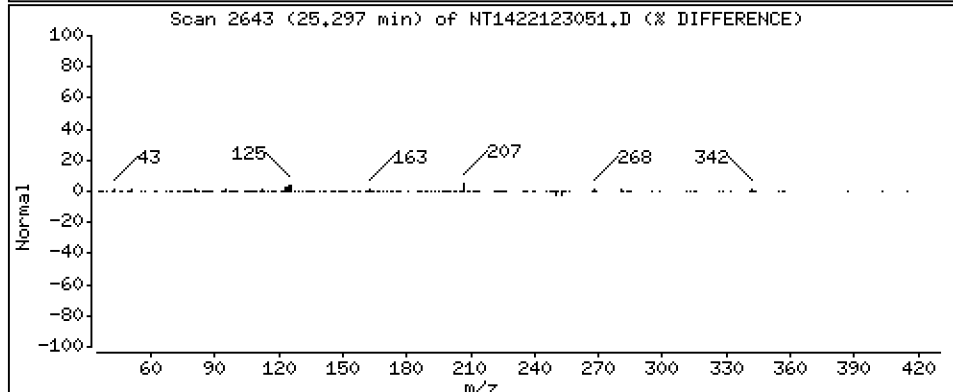
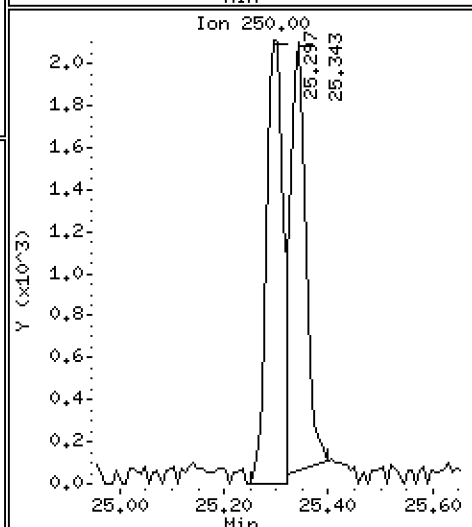
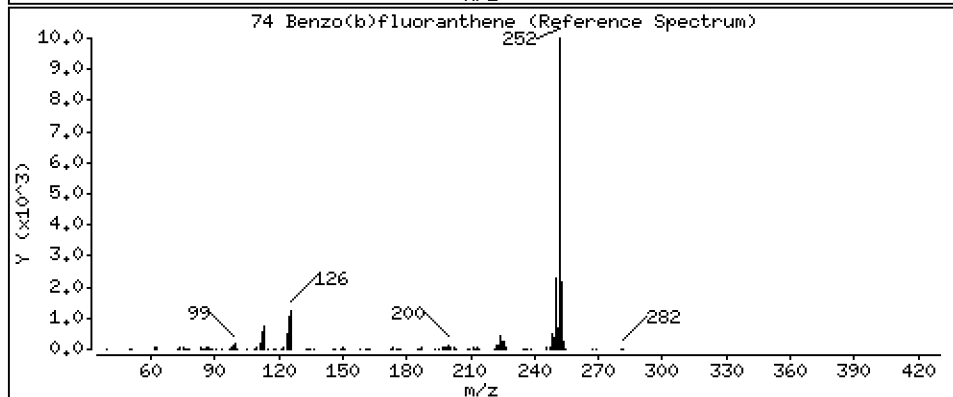
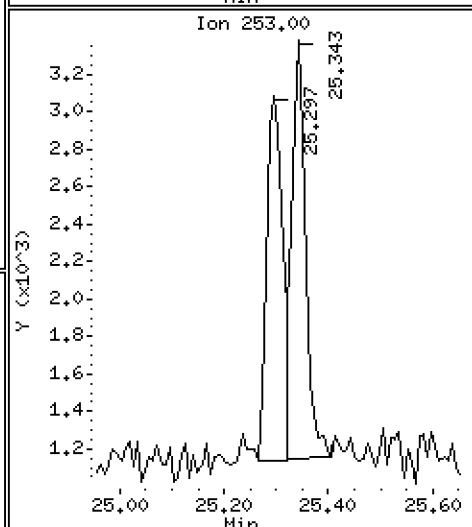
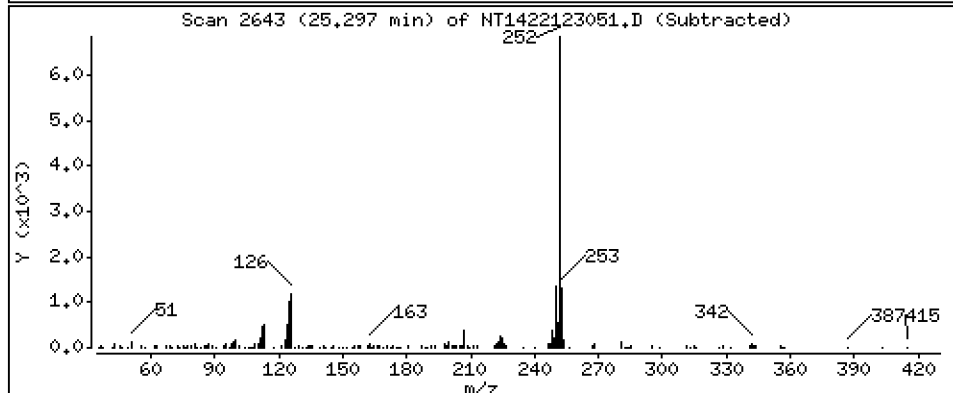
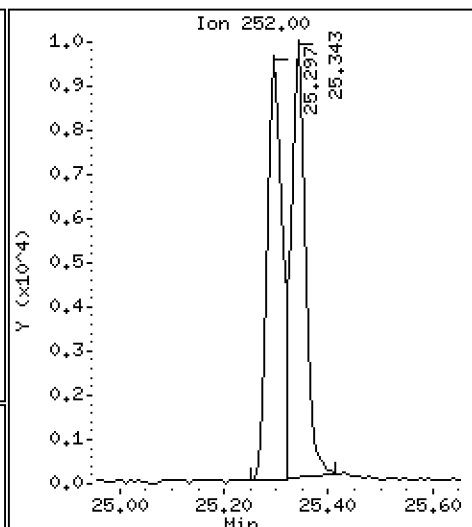
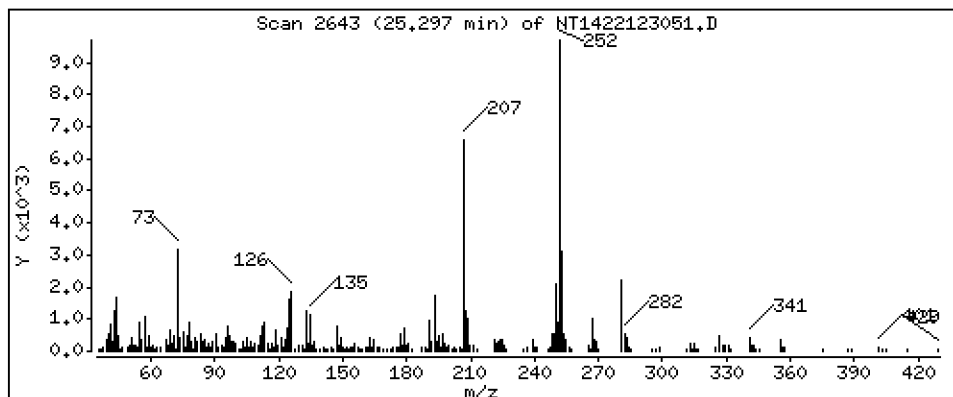
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2459 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

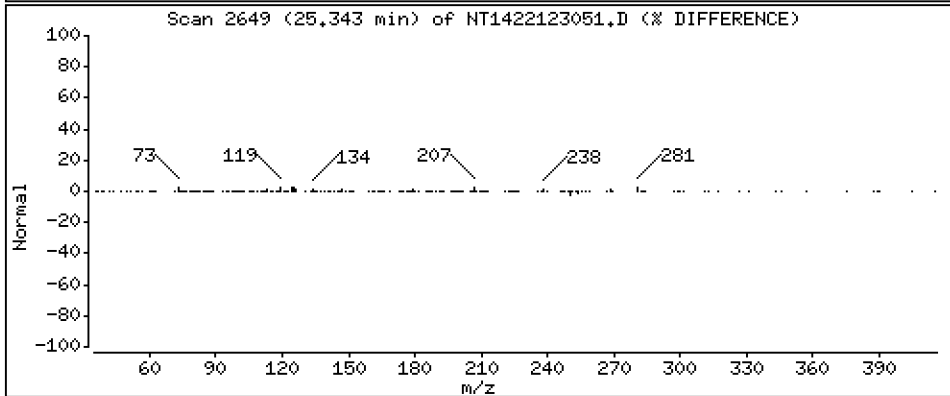
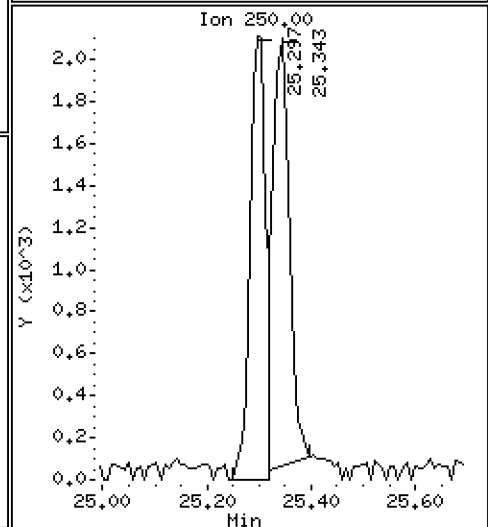
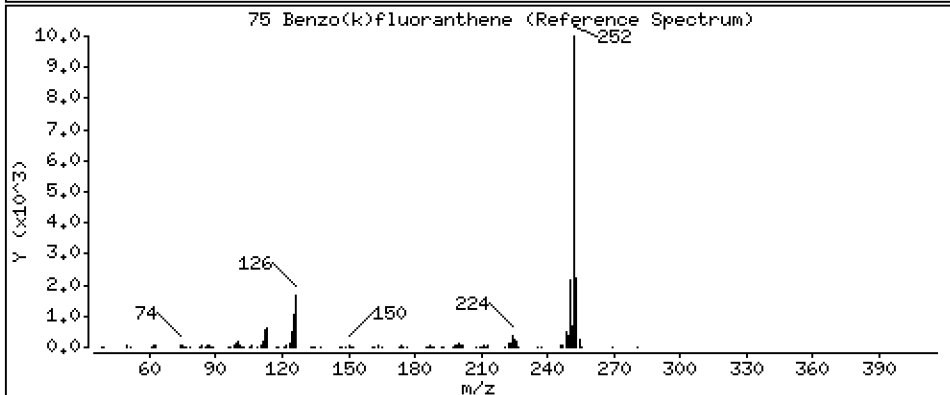
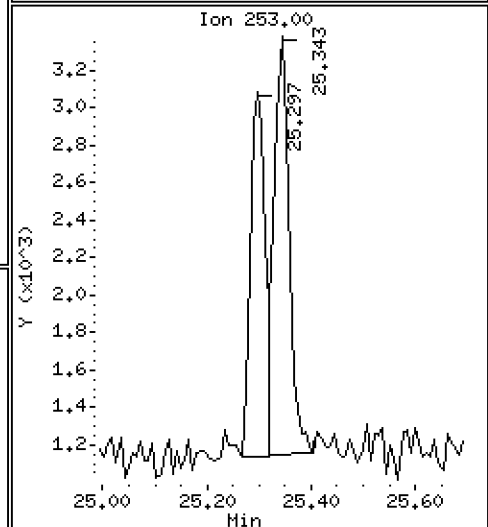
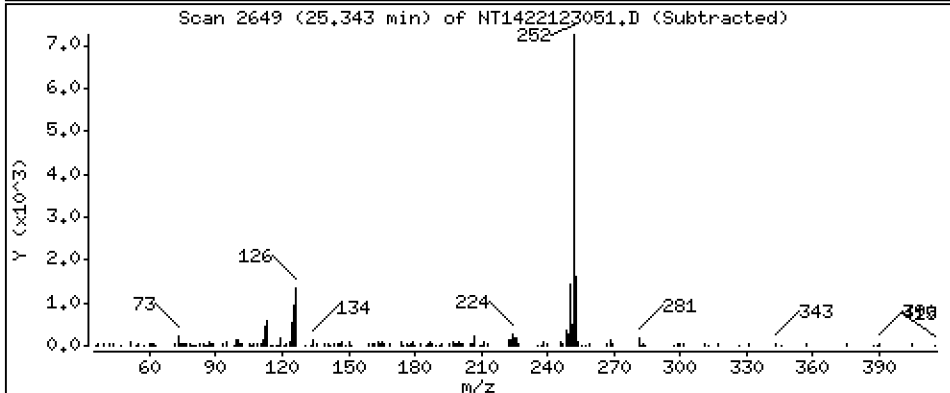
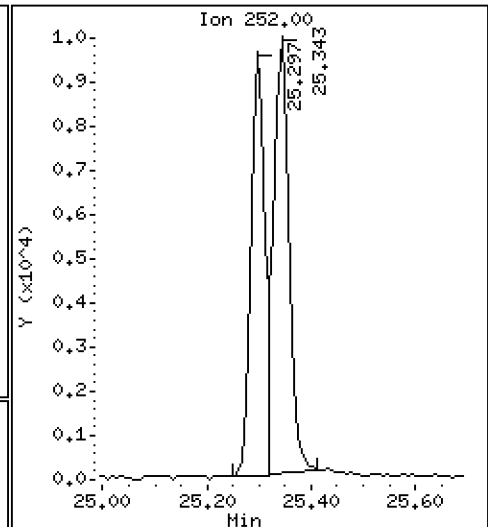
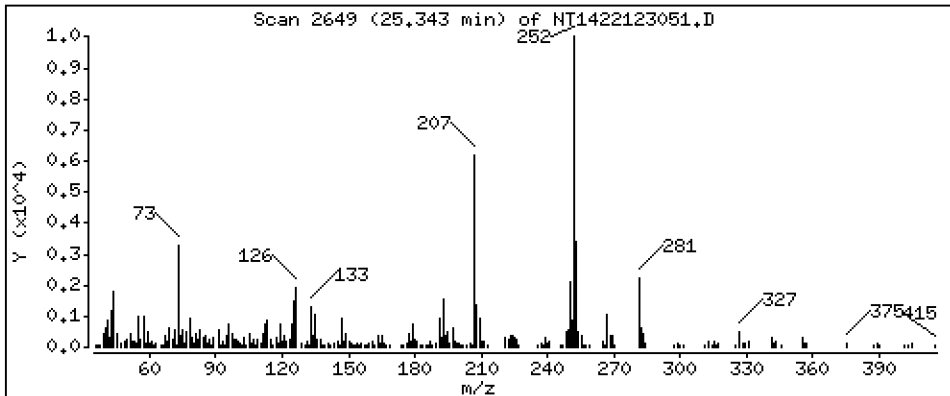
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2549 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

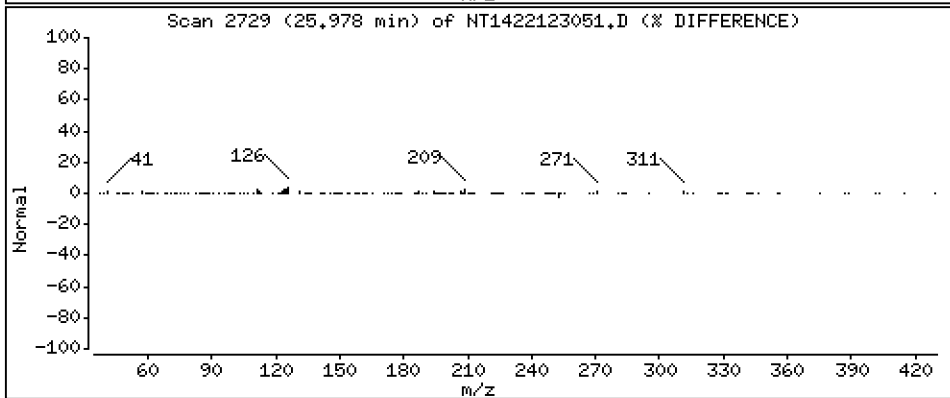
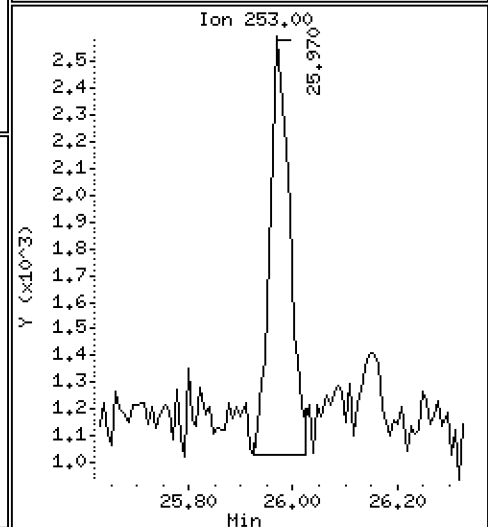
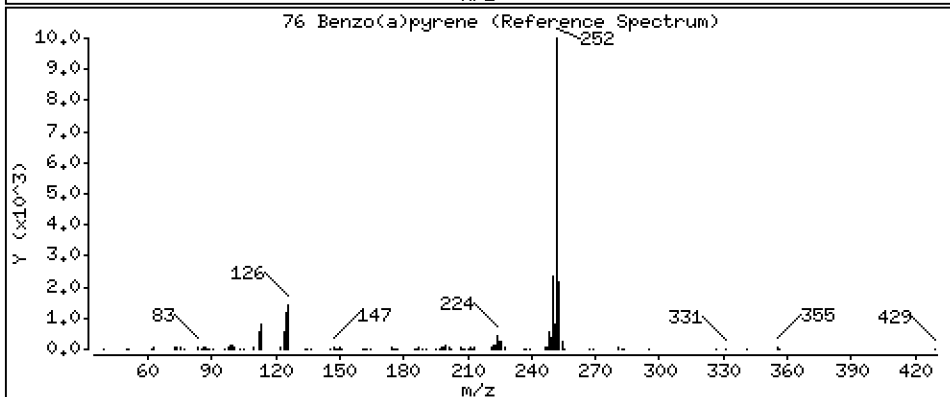
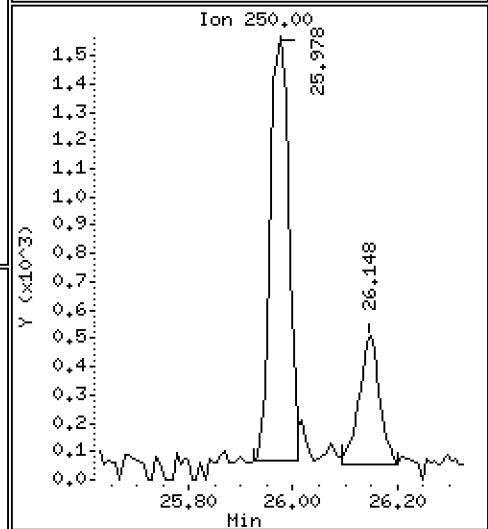
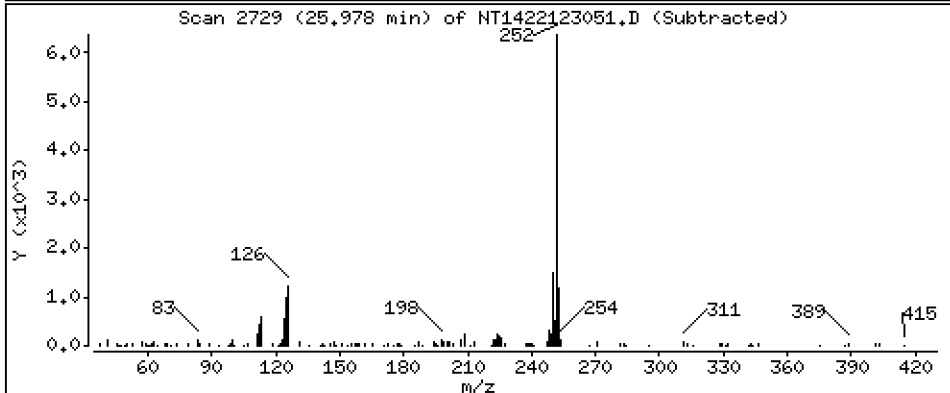
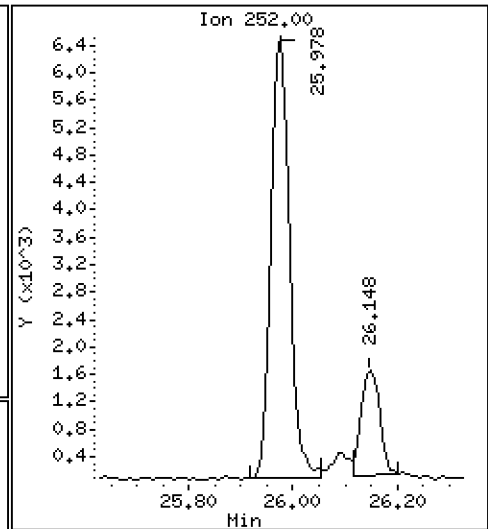
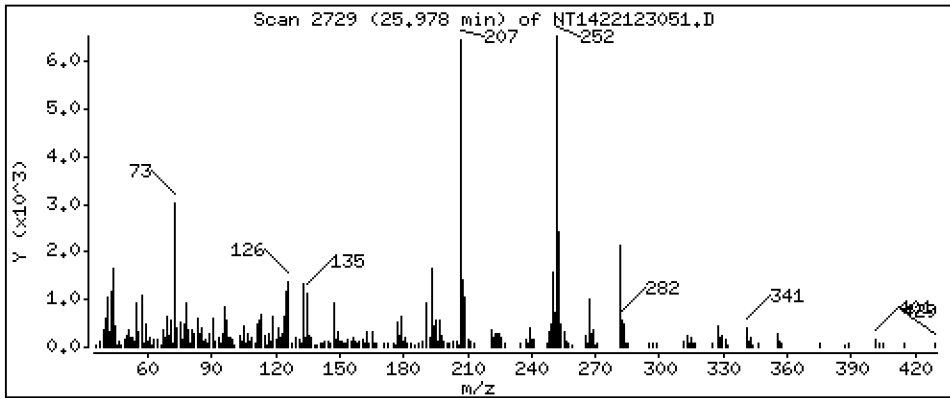
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2416 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

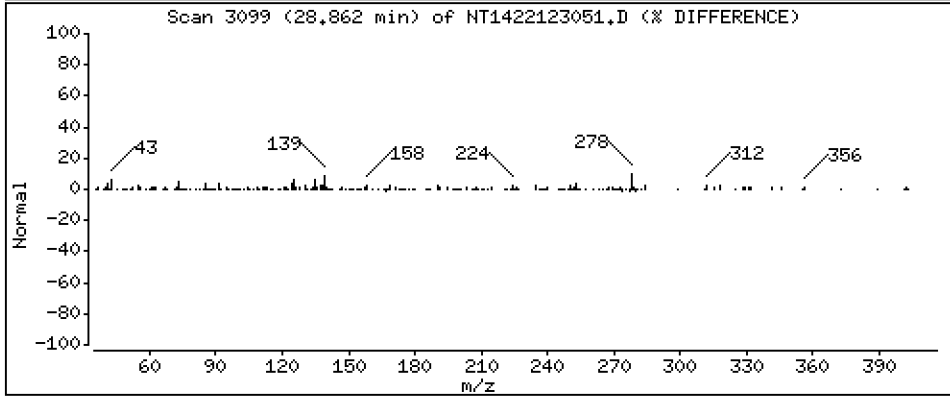
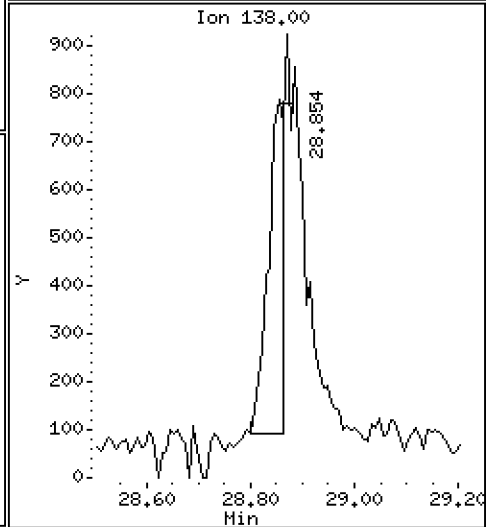
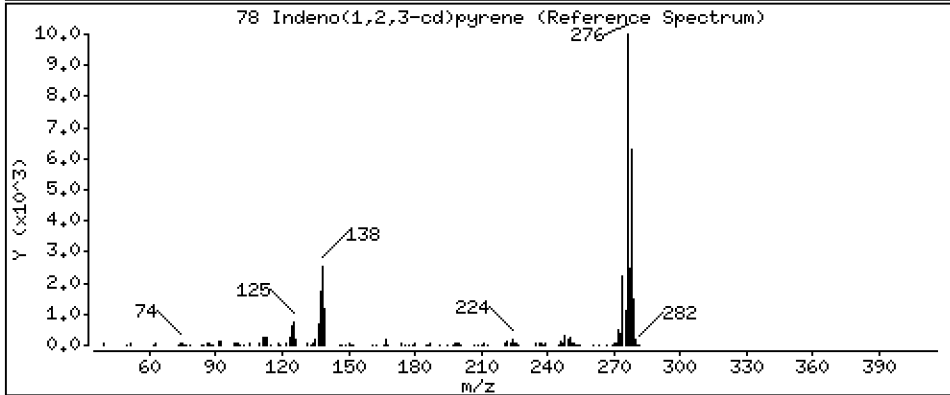
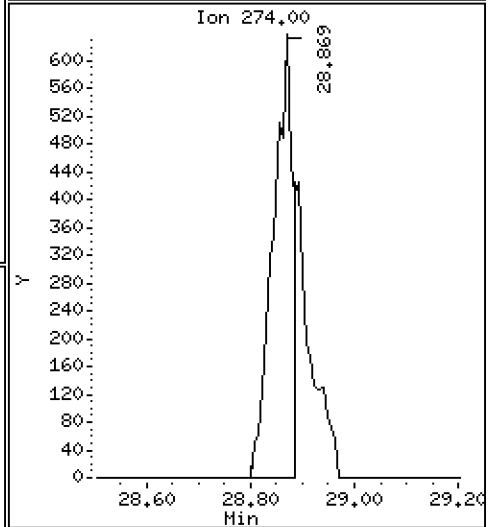
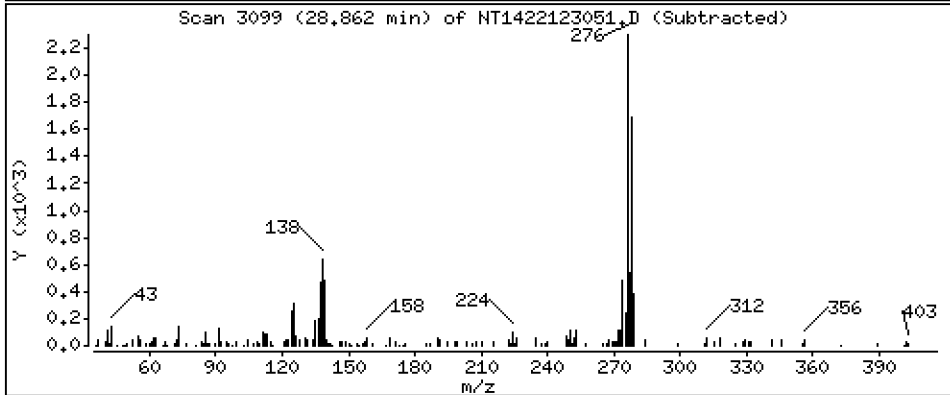
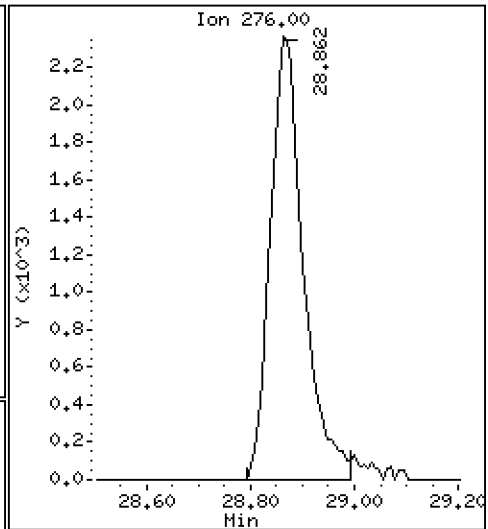
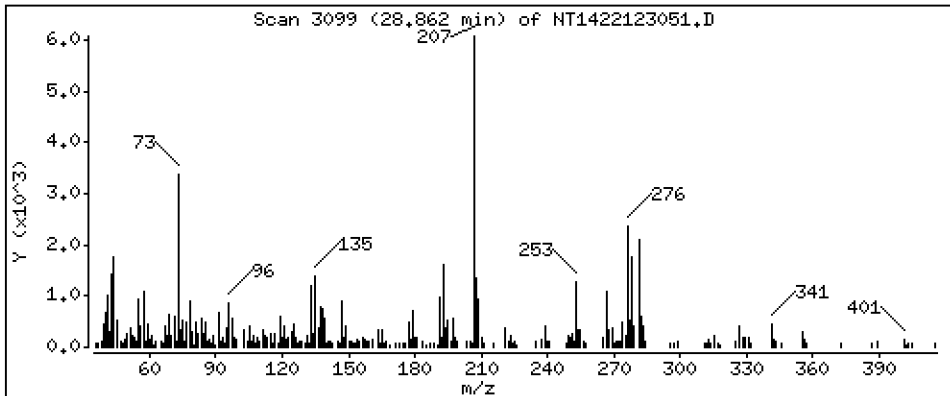
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1427 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

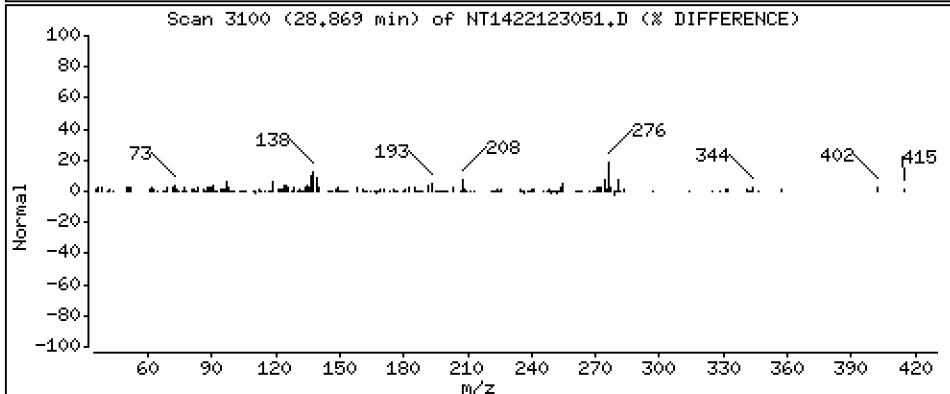
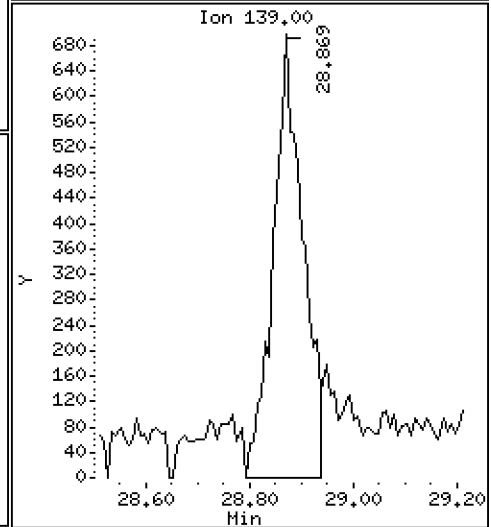
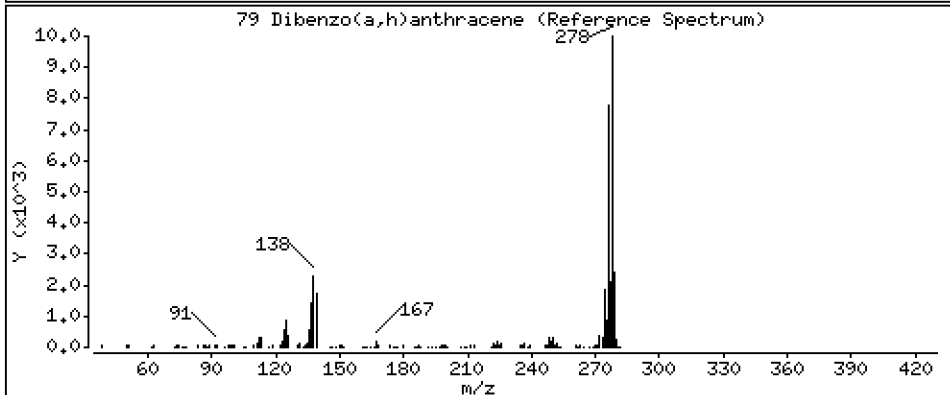
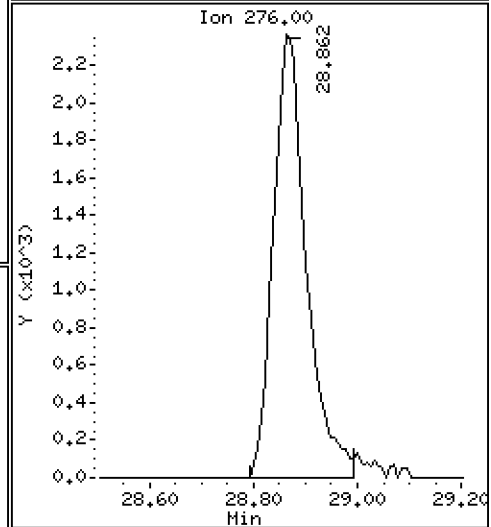
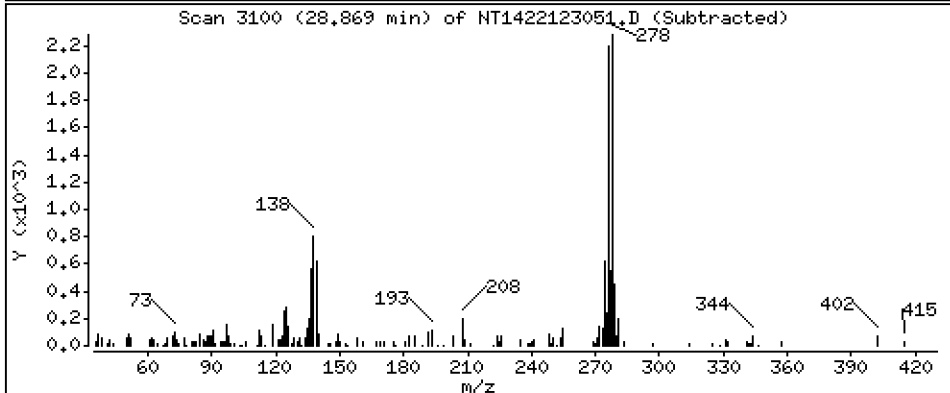
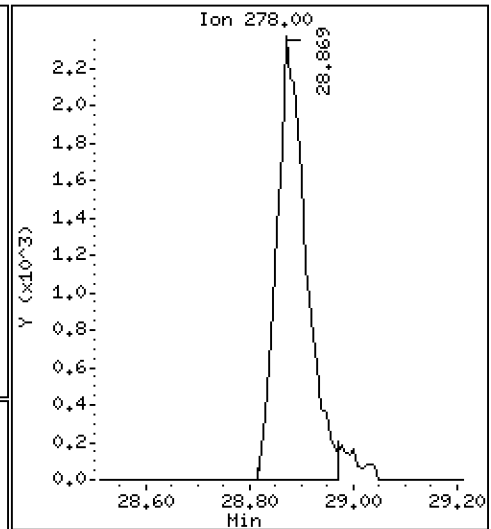
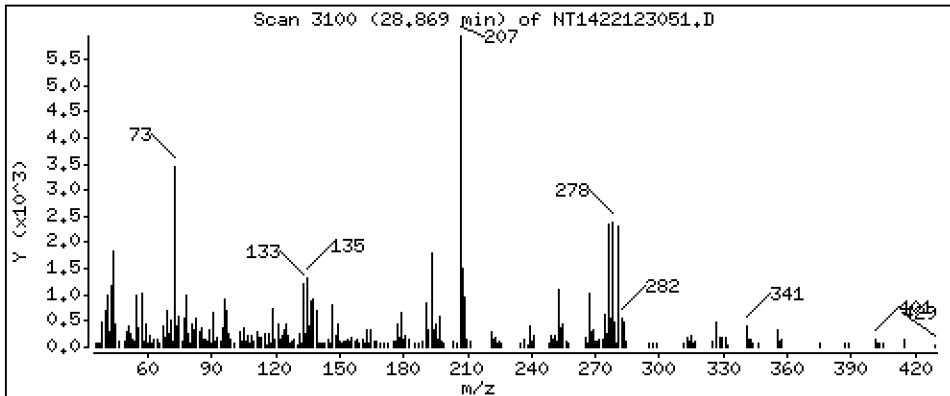
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1497 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

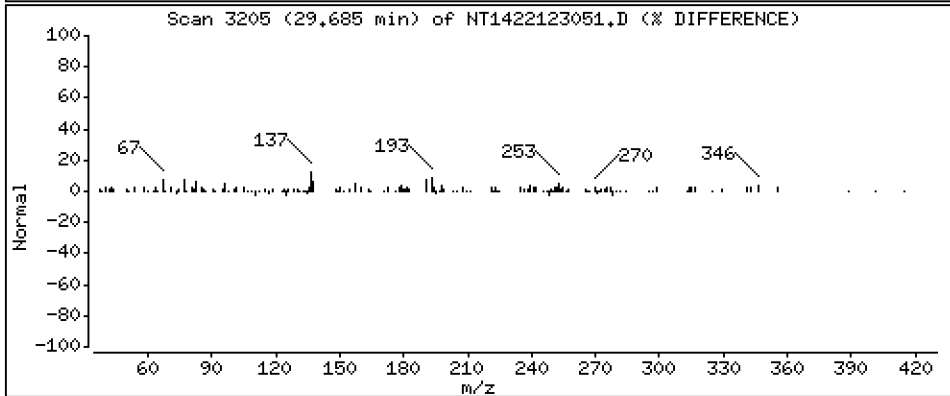
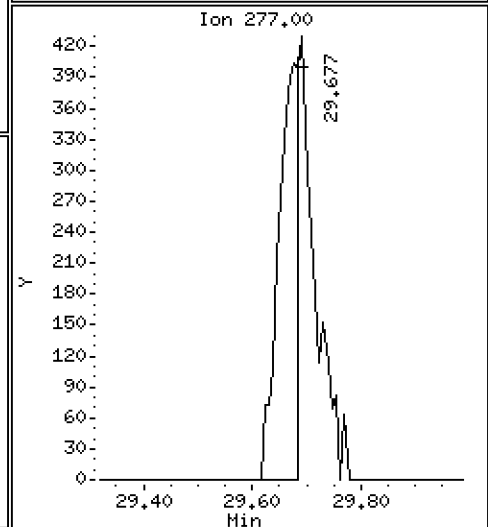
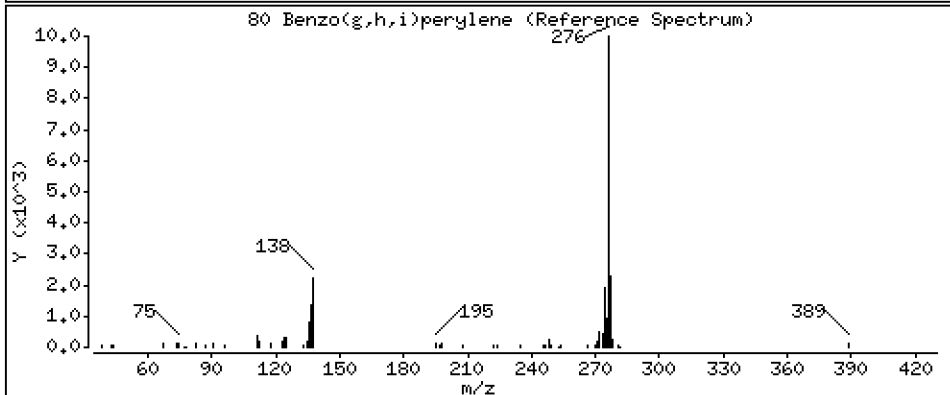
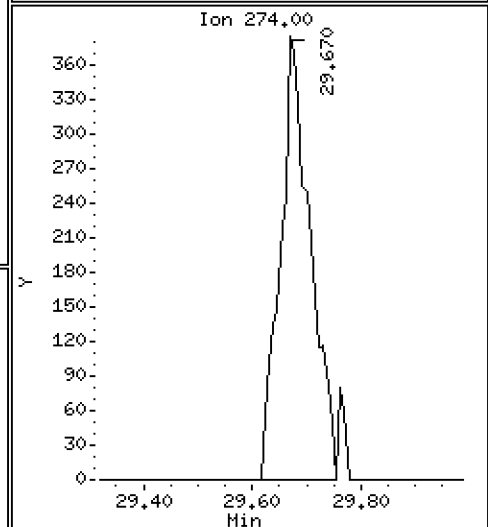
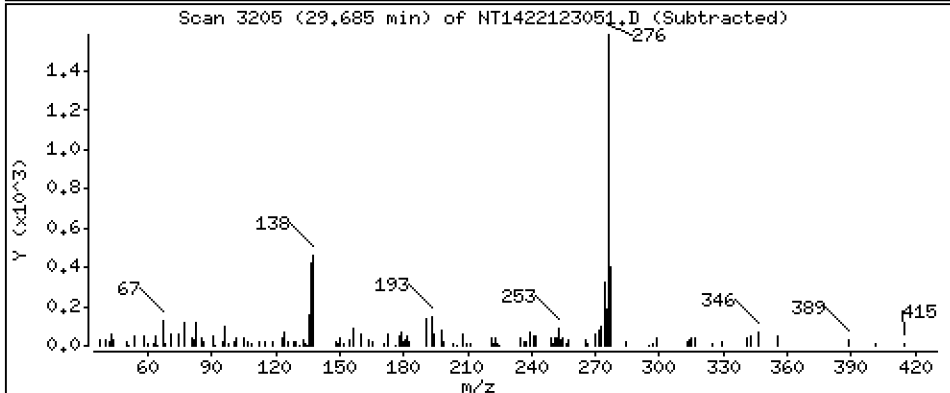
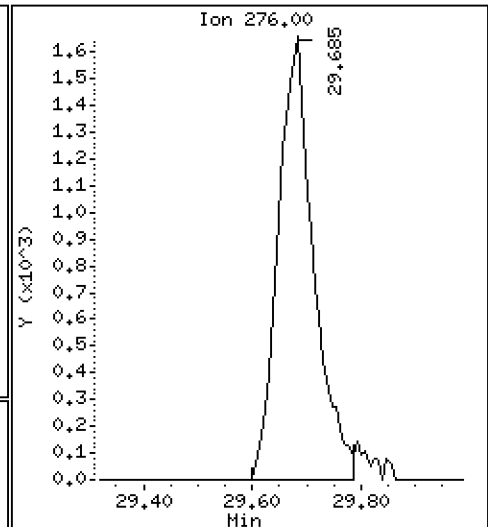
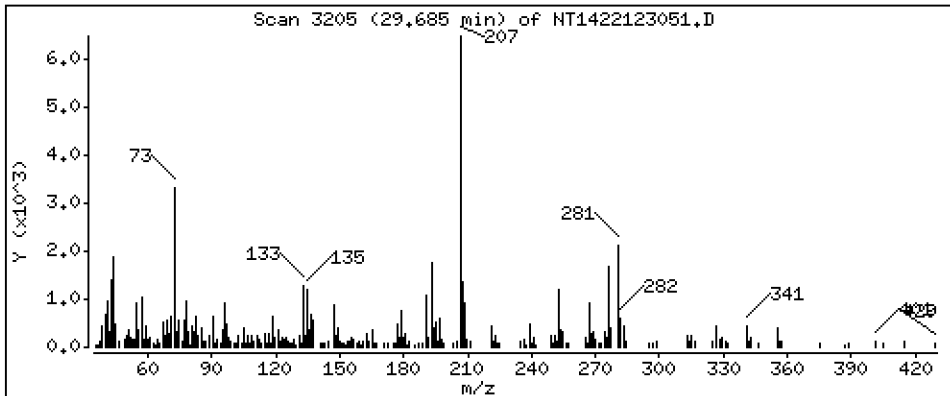
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1229 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

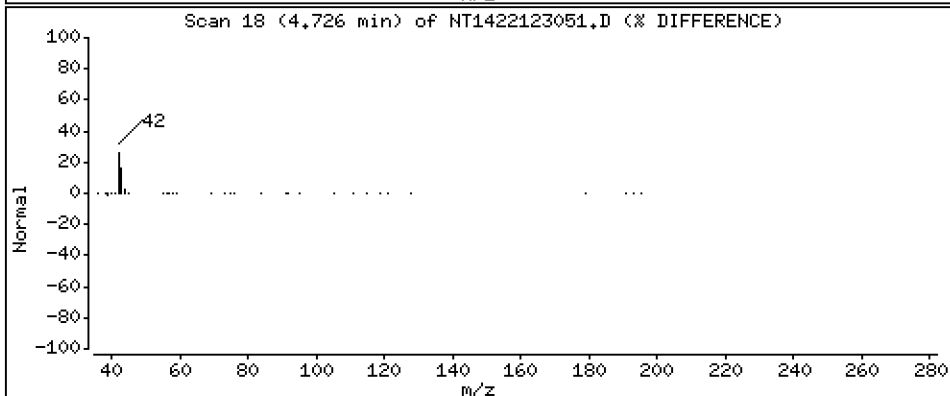
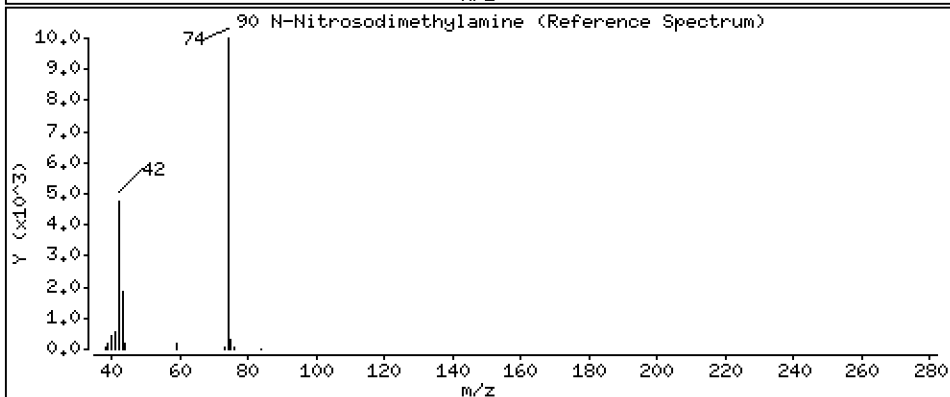
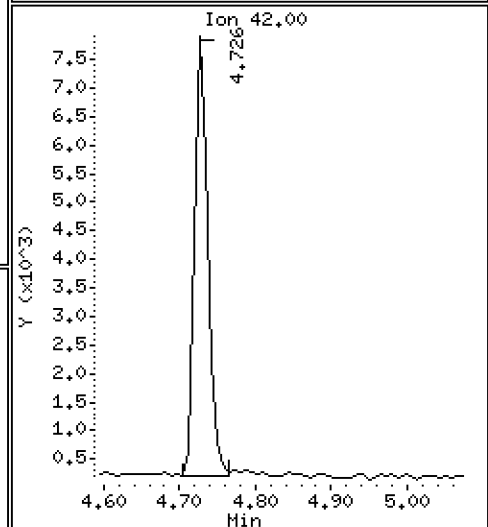
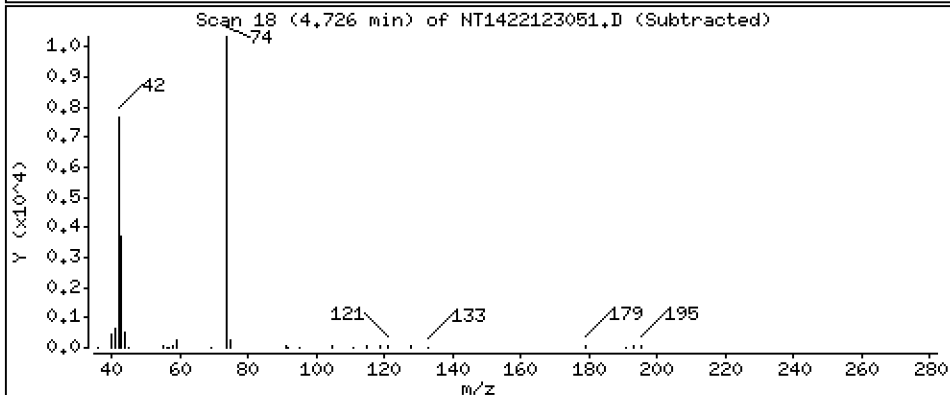
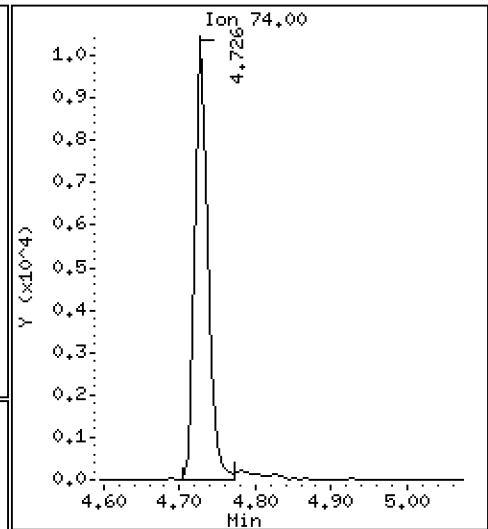
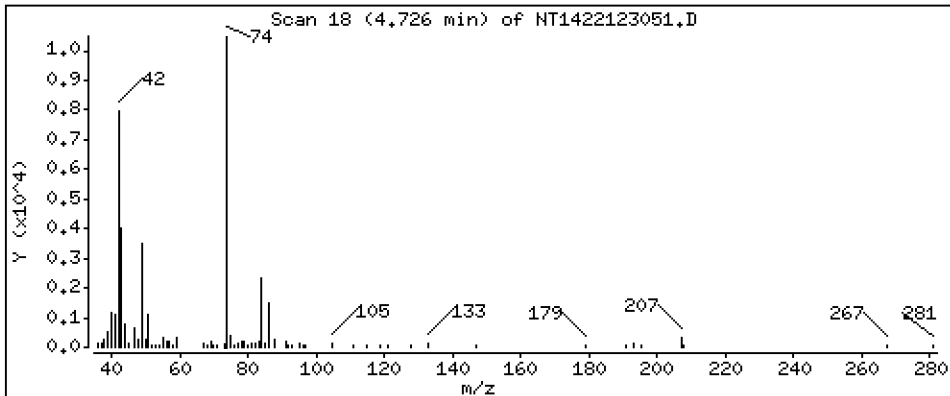
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,4965 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

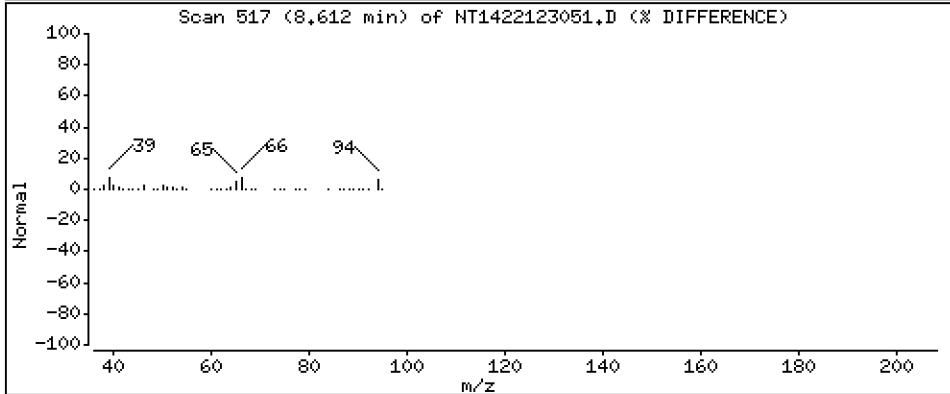
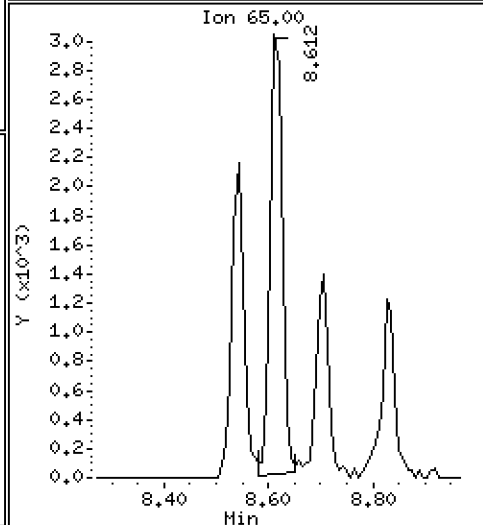
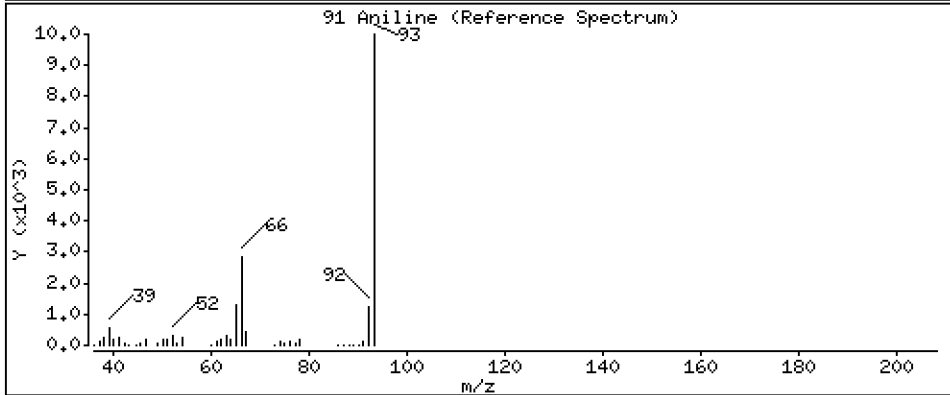
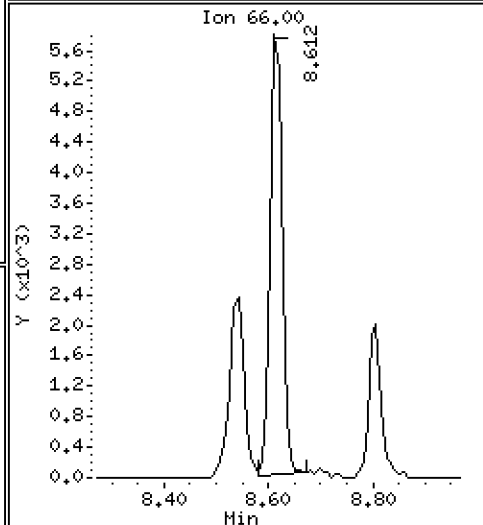
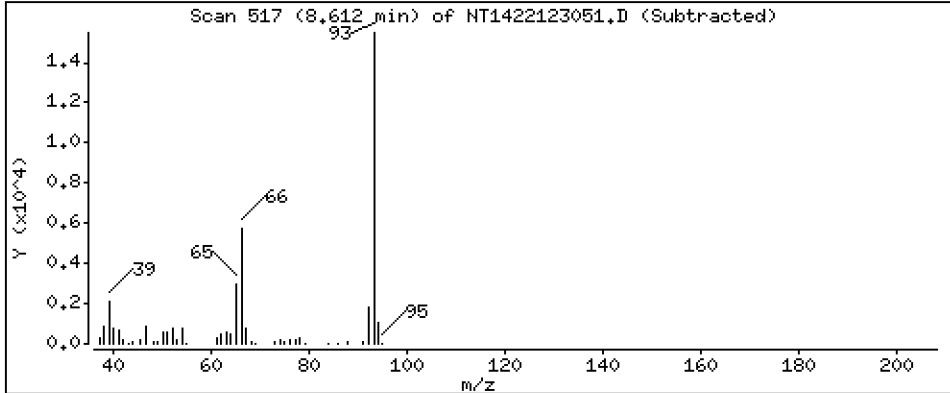
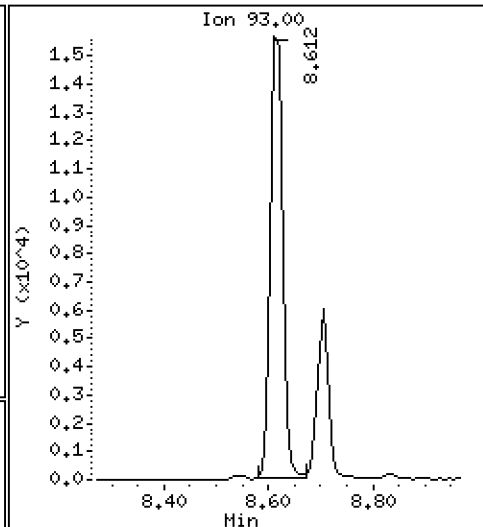
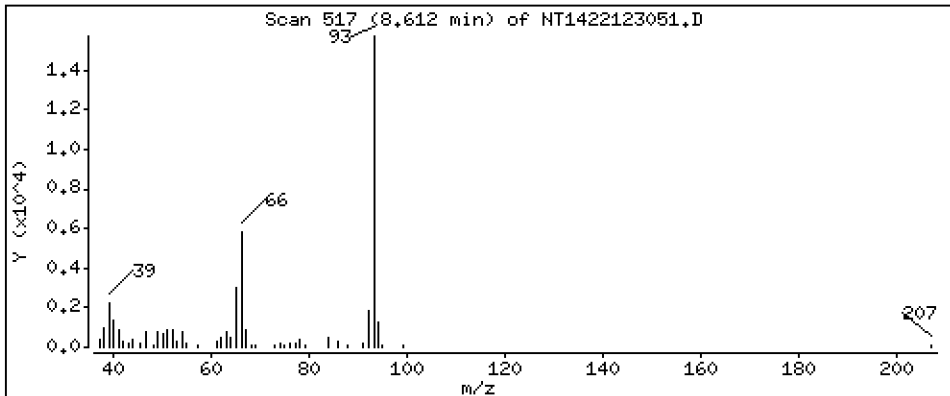
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

91 Aniline

Concentration: 0,4714 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

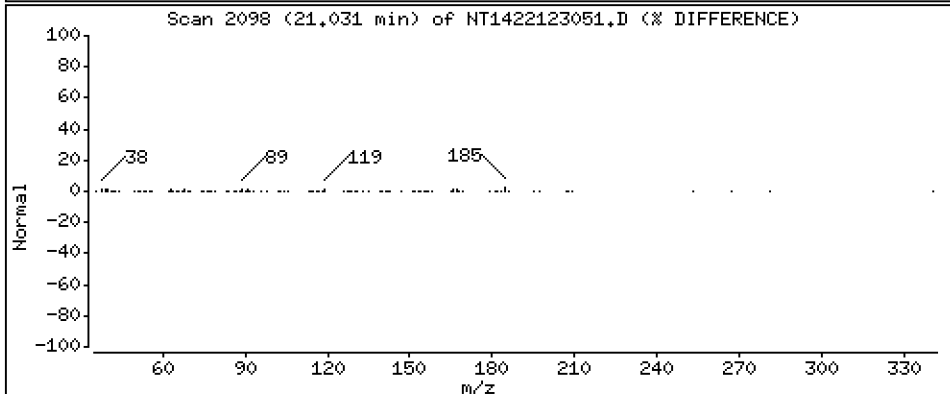
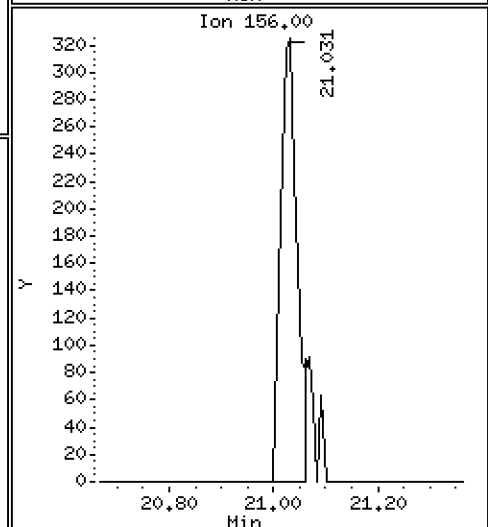
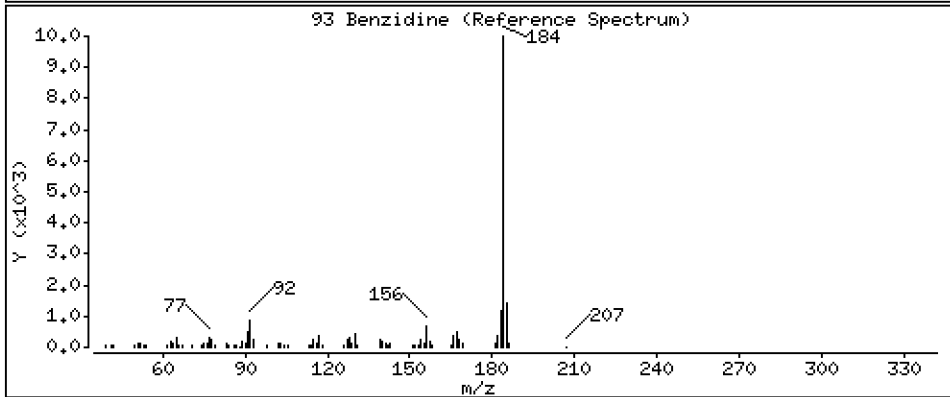
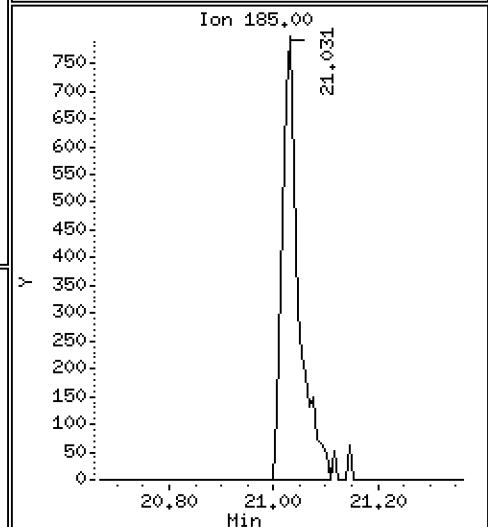
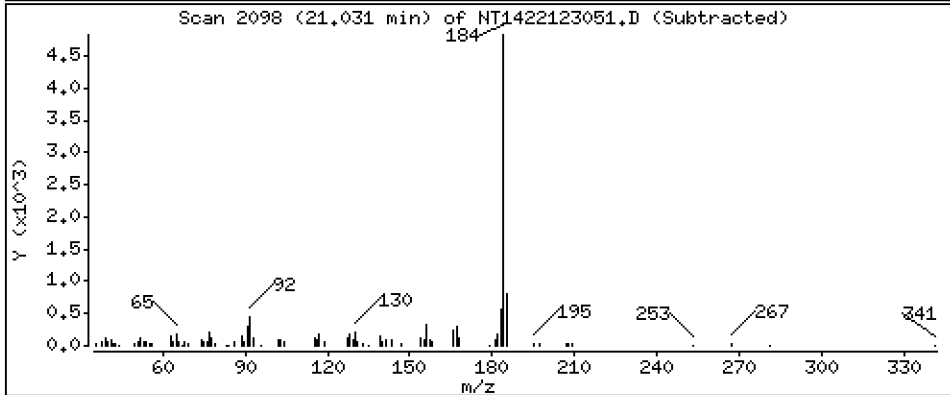
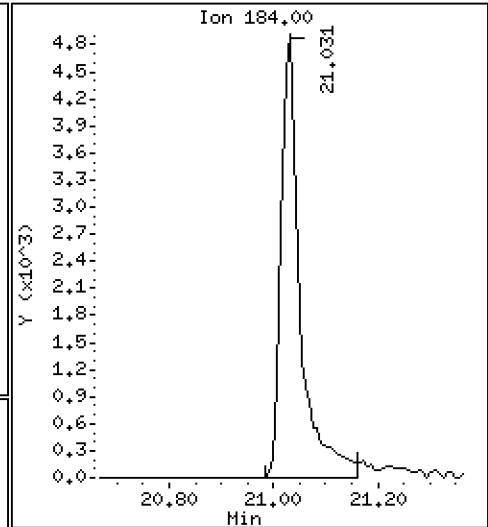
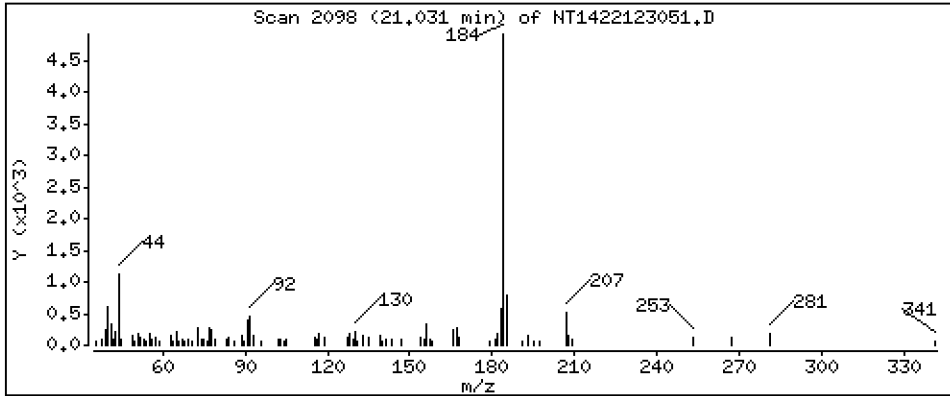
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,3471 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

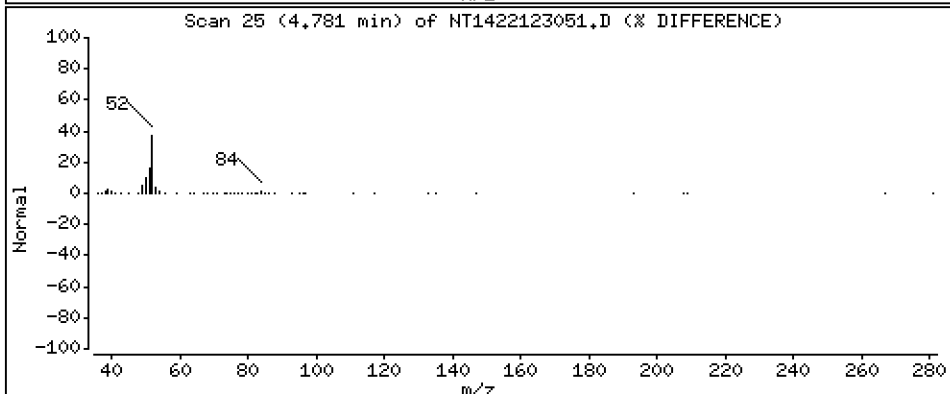
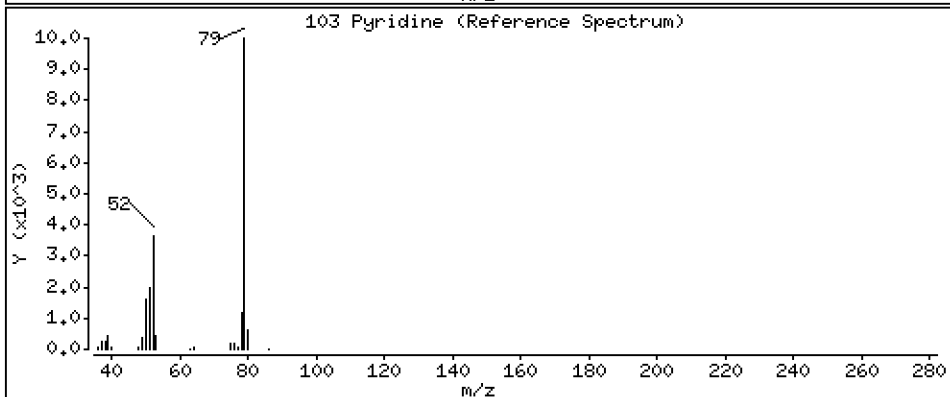
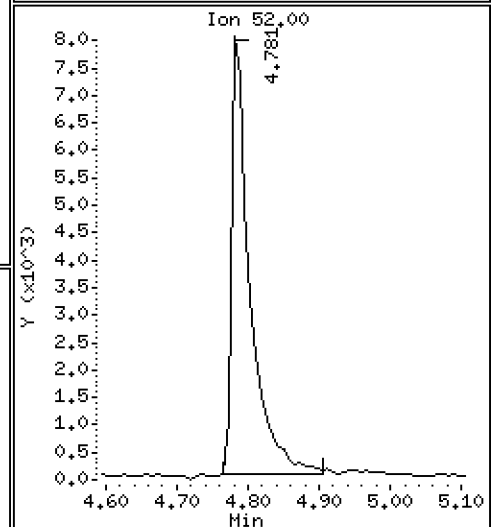
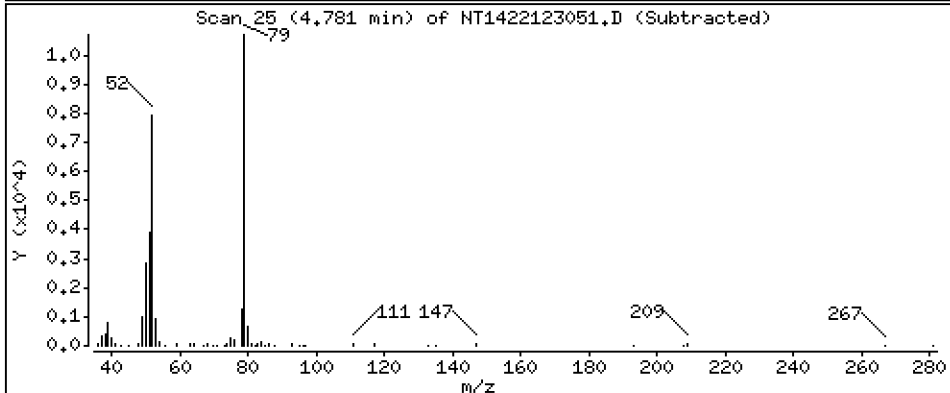
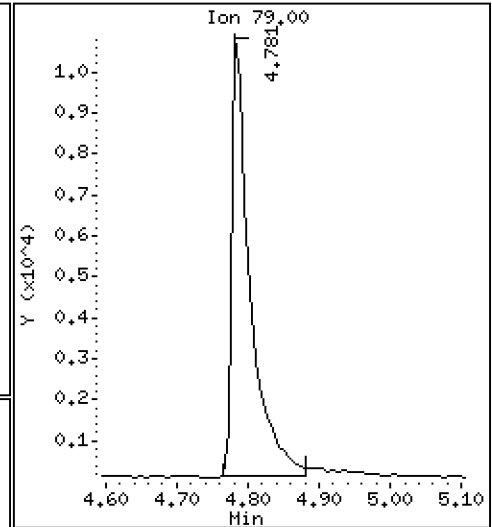
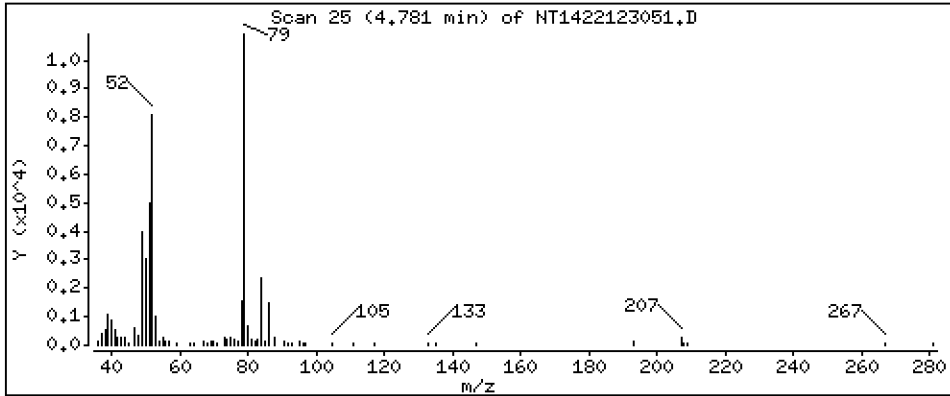
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,2428 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

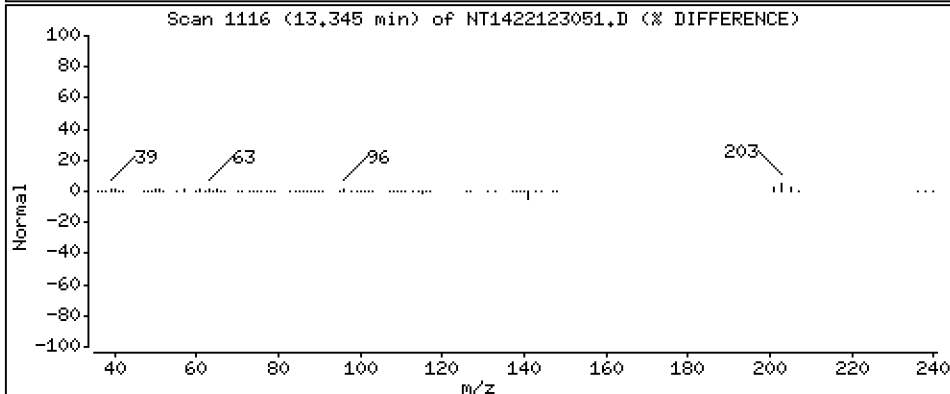
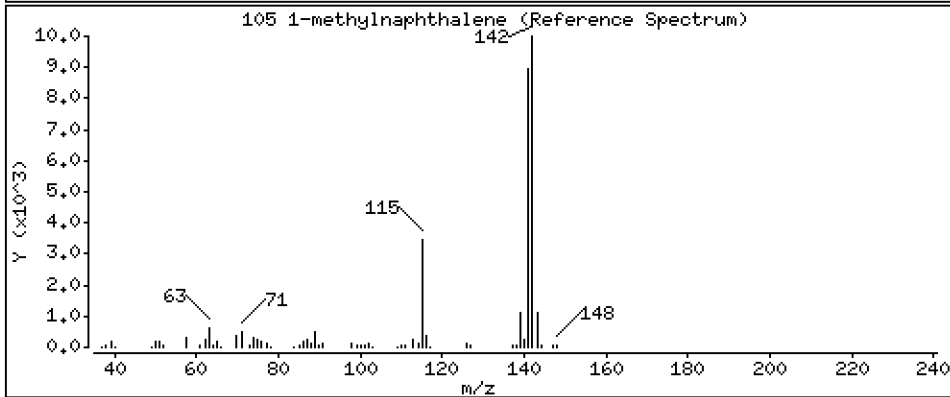
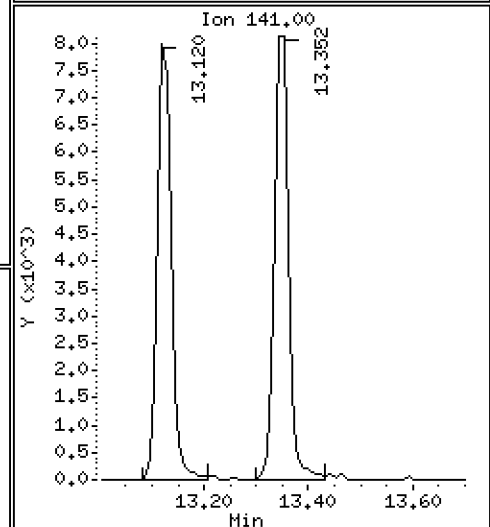
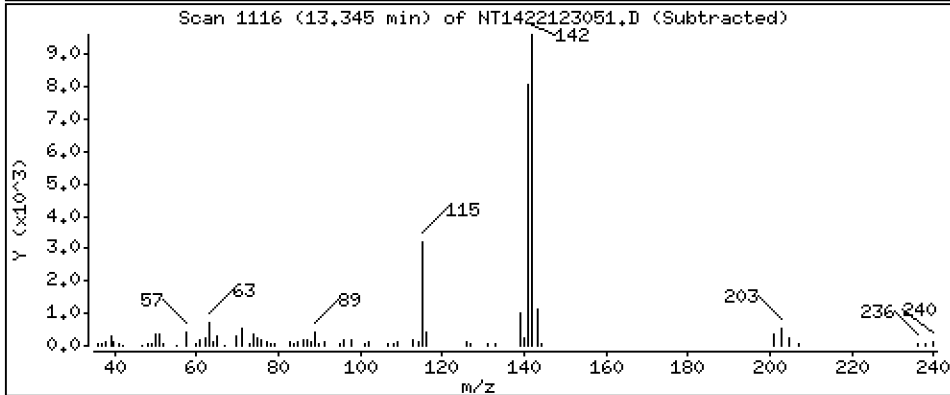
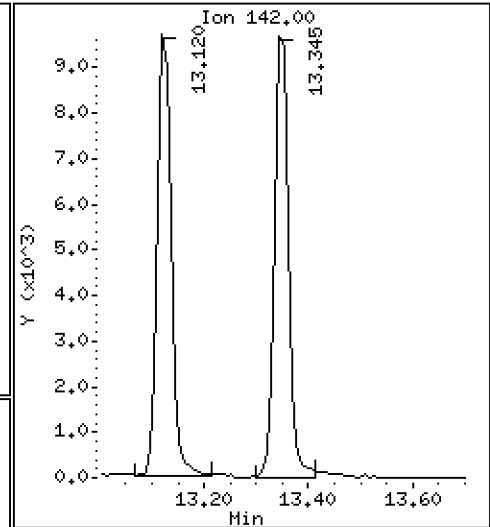
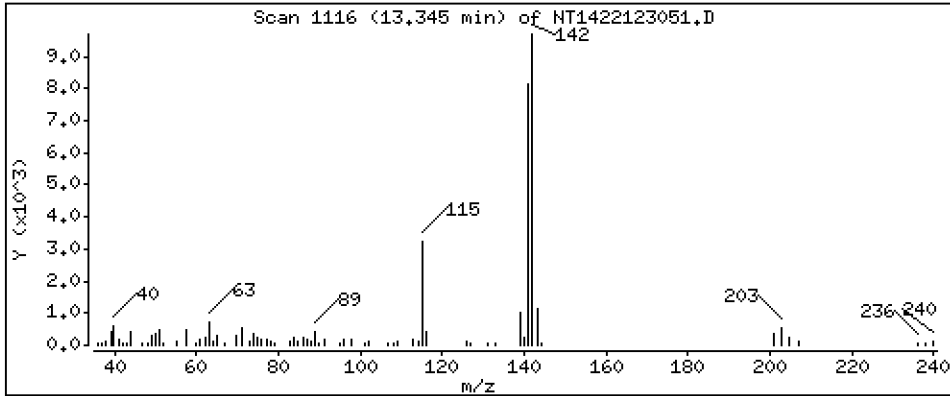
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2317 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

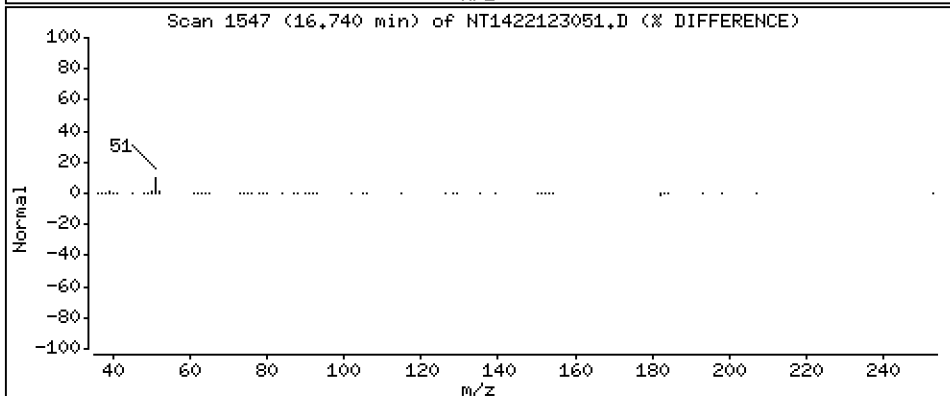
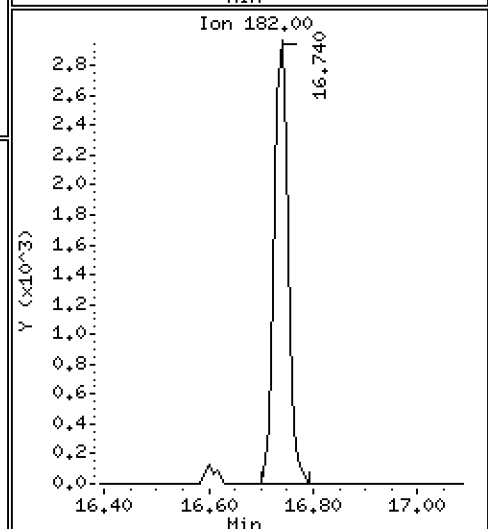
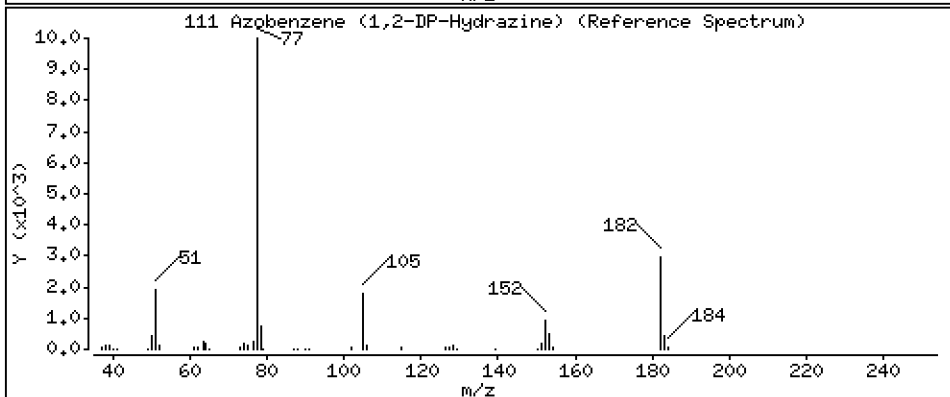
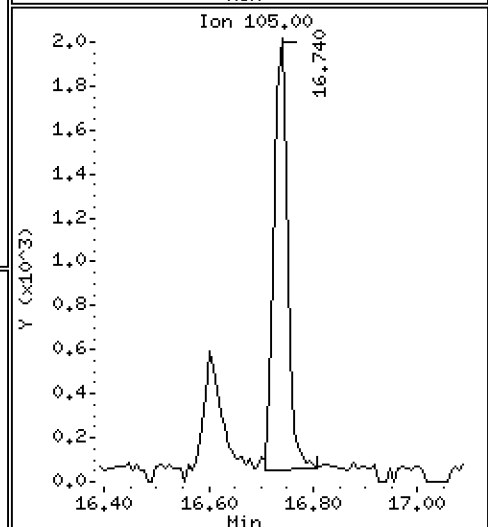
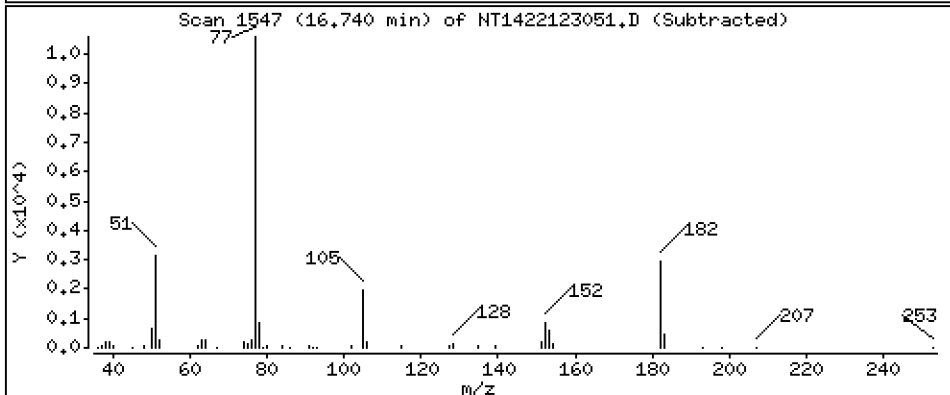
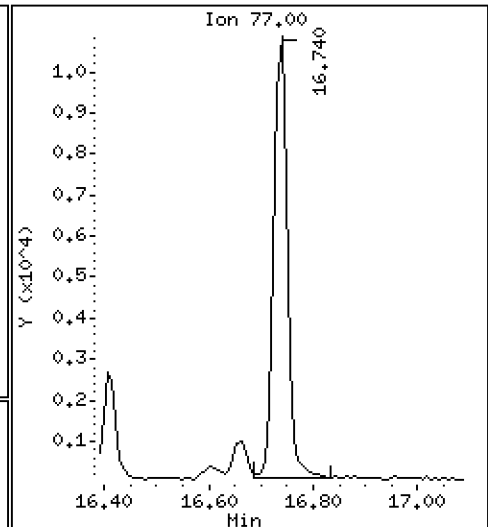
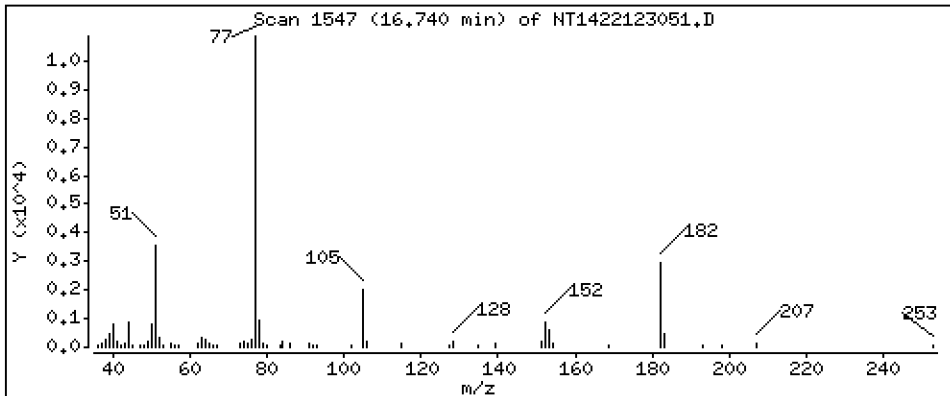
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2322 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

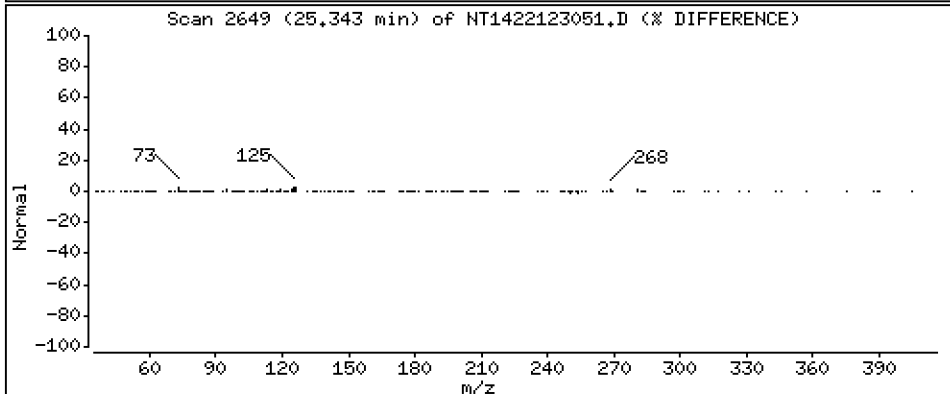
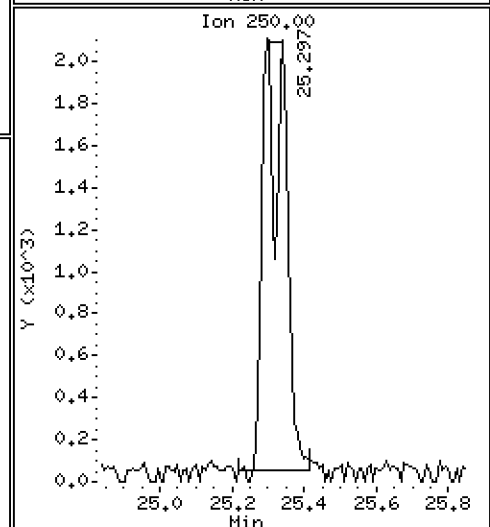
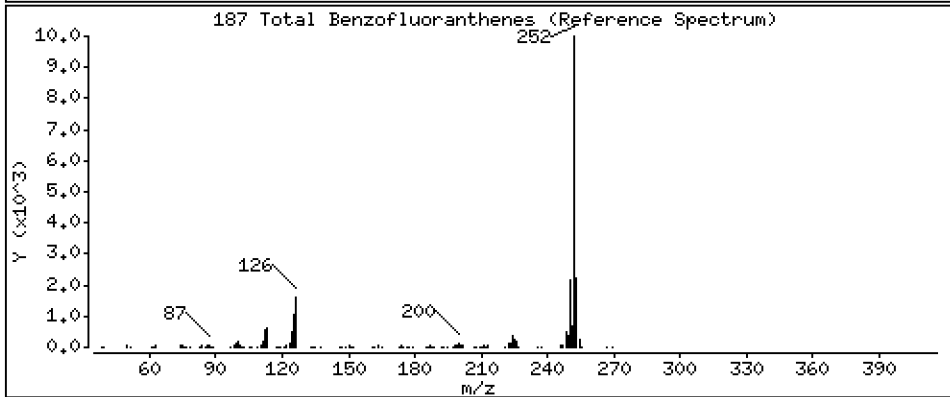
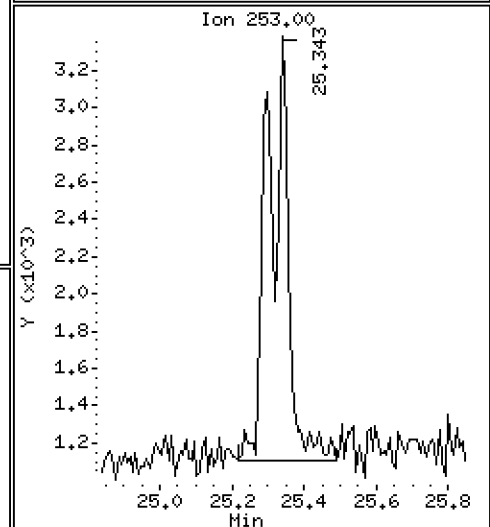
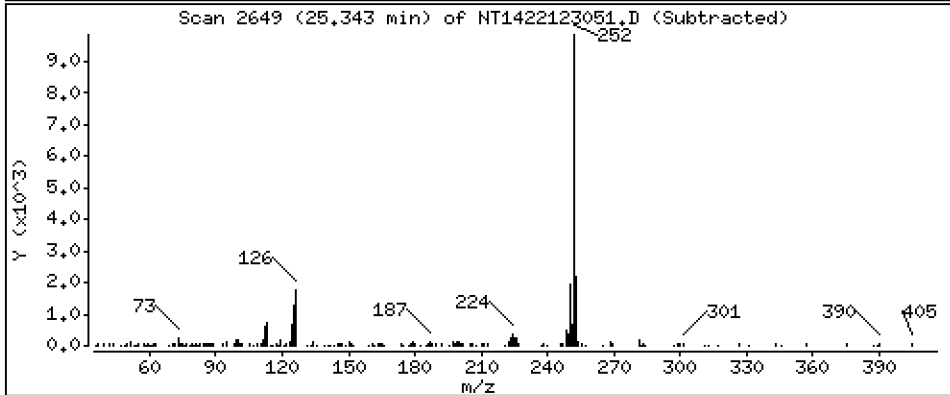
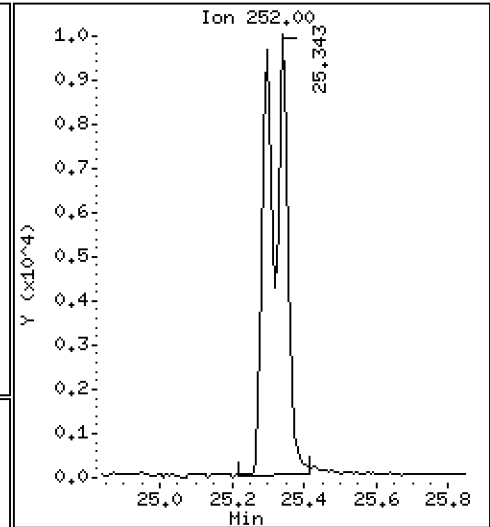
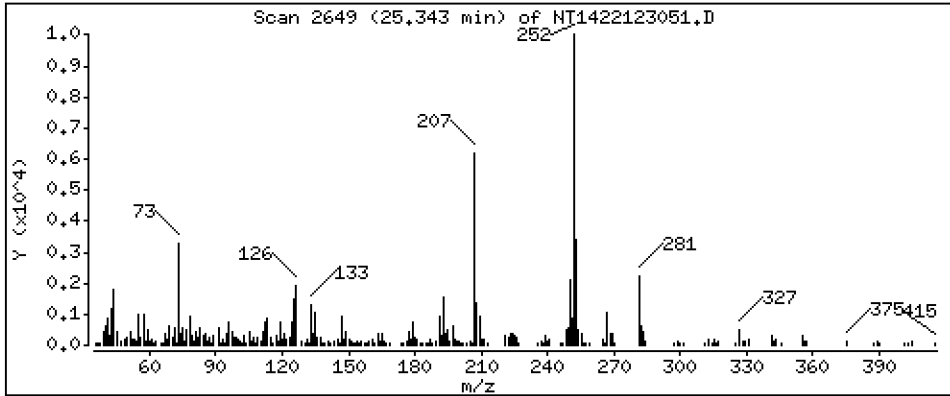
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5087 ug/mL



Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

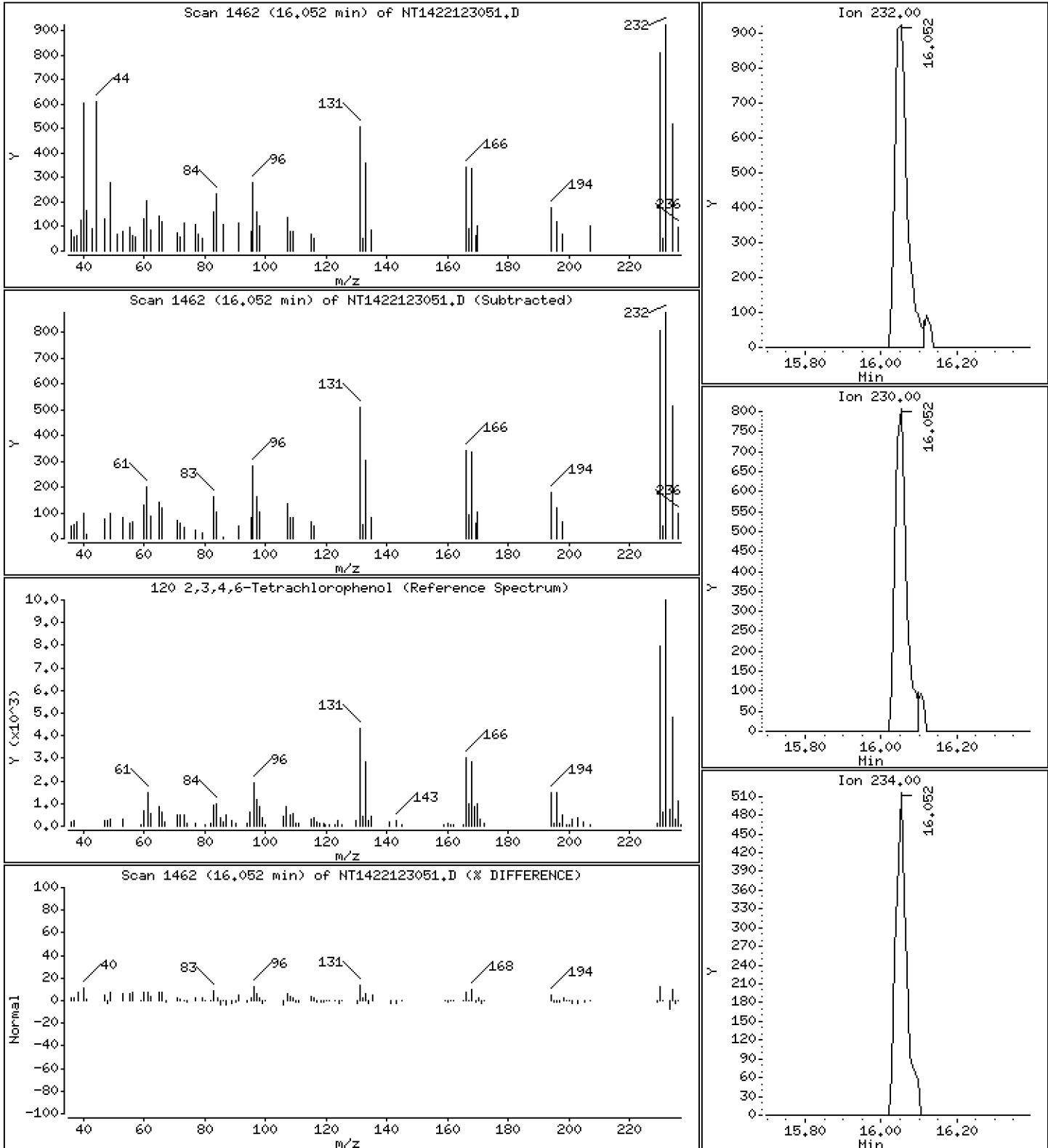
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1326 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D
Lab Smp Id: SKL0355-LCV1
Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

Compounds	QUANT	SIG	CONCENTRATIONS					
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)
1 2-Fluorophenol	112		6.927	6.927	(0.756)	12842	0.34438	0.3444
2 Phenol-d5	99		8.519	8.519	(0.929)	14155	0.30716	0.3072
3 Phenol	94		8.542	8.542	(0.932)	12014	0.22943	0.2294
5 2-Chlorophenol-d4	132		8.804	8.804	(0.960)	12856	0.33217	0.3322
4 Bis(2-Chloroethyl)ether	93		8.704	8.704	(0.949)	8623	0.23905	0.2390
6 2-Chlorophenol	128		8.835	8.835	(0.964)	10012	0.23554	0.2355
7 1,3-Dichlorobenzene	146		9.106	9.106	(0.993)	11073	0.24567	0.2457
* 8 1,4-Dichlorobenzene-d4	152		9.168	9.168	(1.000)	116397	4.00000	
9 1,4-Dichlorobenzene	146		9.199	9.199	(1.003)	10619	0.24869	0.2487
\$ 10 1,2-Dichlorobenzene-d4	152		9.533	9.533	(1.040)	6376	0.24103	0.2410
12 1,2-Dichlorobenzene	146		9.556	9.564	(1.042)	10186	0.24324	0.2432
11 Benzyl alcohol	108		9.440	9.440	(1.030)	3783	0.16228	0.1623
14 2,2'-oxybis(1-Chloropropane)	121		9.742	9.743	(1.063)	2715	0.22362	0.2236 (M)
13 2-Methylphenol	108		9.665	9.665	(1.054)	8908	0.23411	0.2341
17 Hexachloroethane	117		10.162	10.162	(1.108)	2756	0.17549	0.1755
16 N-Nitroso-di-n-propylamine	70		9.999	9.999	(1.091)	5117	0.22076	0.2208
15 4-Methylphenol	108		9.937	9.937	(1.084)	8513	0.21208	0.2121
\$ 18 Nitrobenzene-d5	82		10.270	10.270	(0.880)	7699	0.21407	0.2141
19 Nitrobenzene	77		10.301	10.301	(0.882)	8051	0.22540	0.2254
20 Isophorone	82		10.759	10.759	(0.922)	8947	0.19654	0.1965
21 2-Nitrophenol	139		10.938	10.938	(0.937)	4423	0.20275	0.2028
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	16985	0.45562	0.4556
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	8349	0.23576	0.2358
24 Benzoic acid	105		11.139	11.201	(0.954)	3966	0.17478	0.1748 (M)
25 2,4-Dichlorophenol	162		11.403	11.403	(0.977)	12985	0.41323	0.4132
26 1,2,4-Trichlorobenzene	180		11.588	11.589	(0.993)	8229	0.24219	0.2422
* 27 Naphthalene-d8	136		11.673	11.681	(1.000)	425902	4.00000	
28 Naphthalene	128		11.720	11.720	(1.004)	24917	0.23773	0.2377
29 4-Chloroaniline	127		11.843	11.843	(1.015)	17541	0.40581	0.4058
30 Hexachlorobutadiene	225		12.083	12.083	(1.035)	3748	0.22233	0.2223
31 4-Chloro-3-methylphenol	107		12.818	12.810	(1.098)	11891	0.40100	0.4010
32 2-Methylnaphthalene	142		13.120	13.128	(1.124)	17149	0.22305	0.2231
33 Hexachlorocyclopentadiene	237		13.600	13.592	(0.888)	352	0.02150	0.02150

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.747	(0.898)	6773	0.37464	0.3746	
35 2,4,5-Trichlorophenol	196		13.839	13.824	(0.904)	9005	0.43158	0.4316 (M)	
§ 36 2-Fluorobiphenyl	172		13.909	13.909	(0.909)	16254	0.22319	0.2232	
37 2-Chloronaphthalene	162		14.126	14.126	(0.923)	14693	0.23716	0.2372	
38 2-Nitroaniline	65		14.381	14.373	(0.939)	6470	0.39723	0.3972	
39 Dimethylphthalate	163		14.807	14.807	(0.967)	13629	0.22312	0.2231	
40 Acenaphthylene	152		15.000	15.000	(0.980)	21309	0.22558	0.2256	
41 2,6-Dinitrotoluene	165		14.946	14.946	(0.976)	4846	0.35154	0.3515	
* 42 Acenaphthene-d10	164		15.310	15.318	(1.000)	216598	4.00000		
43 3-Nitroaniline	138		15.232	15.233	(0.995)	5647	0.33704	0.3370	
44 Acenaphthene	153		15.379	15.379	(1.005)	13777	0.23514	0.2351	
45 2,4-Dinitrophenol	184		15.472	15.441	(1.011)	62	0.00530	0.005296 (M)	
46 Dibenzofuran	168		15.712	15.712	(1.026)	21128	0.24047	0.2405	
47 4-Nitrophenol	109		15.634	15.549	(1.021)	1904	0.23747	0.2375 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.758	(1.029)	5711	0.30195	0.3020	
50 Diethylphthalate	149		16.268	16.268	(1.063)	18907	0.22772	0.2277	
49 Fluorene	166		16.423	16.423	(1.073)	21251	0.22736	0.2274	
51 4-Chlorophenyl-phenylether	204		16.407	16.415	(1.072)	9783	0.21379	0.2138	
52 4-Nitroaniline	138		16.523	16.508	(1.079)	6307	0.31284	0.3128	
53 4,6-Dinitro-2-methylphenol	198		16.600	16.608	(0.904)	2946	0.20197	0.2020	
54 N-Nitrosodiphenylamine	169		16.662	16.662	(0.907)	14446	0.24221	0.2422	
§ 55 2,4,6-Tribromophenol	330		16.963	16.963	(1.108)	2148	0.21169	0.2117 (M)	
56 4-Bromophenyl-phenylether	248		17.418	17.418	(0.949)	5136	0.22742	0.2274	
57 Hexachlorobenzene	284		17.742	17.742	(0.966)	5677	0.22906	0.2291	
58 Pentachlorophenol	266		18.114	18.098	(0.987)	823	0.07669	0.07669 (M)	
* 59 Phenanthrene-d10	188		18.361	18.369	(1.000)	347572	4.00000		
60 Phenanthrene	178		18.408	18.415	(1.003)	21884	0.24149	0.2415	
61 Anthracene	178		18.508	18.508	(1.008)	18882	0.21826	0.2183	
62 Carbazole	167		18.841	18.833	(1.026)	18183	0.21741	0.2174	
63 Di-n-butylphthalate	149		19.622	19.622	(1.069)	17991	0.19057	0.1906	
64 Fluoranthene	202		20.798	20.798	(0.889)	21465	0.23077	0.2308	
65 Pyrene	202		21.224	21.224	(0.907)	21631	0.22118	0.2212	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.918)	15087	0.21757	0.2176	
67 Butylbenzylphthalate	149		22.408	22.416	(0.957)	7672	0.20800	0.2080	
68 Benzo(a)anthracene	228		23.376	23.376	(0.999)	21137	0.24154	0.2415	
* 69 Chrysene-d12	240		23.407	23.407	(1.000)	288877	4.00000		
70 3,3'-Dichlorobenzidine	252		23.330	23.330	(0.997)	18651	0.69622	0.6962	
71 Chrysene	228		23.446	23.454	(1.002)	19952	0.24137	0.2414	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.438	(0.959)	10512	0.21854	0.2185	
* 134 Di-n-octylphthalate-d4	153		24.429	24.429	(1.000)	433122	4.00000		
73 Di-n-octylphthalate	149		24.437	24.437	(1.000)	25154	0.24194	0.2419	
74 Benzo(b)fluoranthene	252		25.296	25.304	(0.969)	19147	0.24594	0.2459	
75 Benzo(k)fluoranthene	252		25.343	25.343	(0.971)	20195	0.25486	0.2549	
76 Benzo(a)pyrene	252		25.978	25.978	(0.996)	15635	0.24158	0.2416	
* 77 Perylene-d12	264		26.094	26.094	(1.000)	247727	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.861	28.854	(1.106)	10497	0.14268	0.1427	
79 Dibenzo(a,h)anthracene	278		28.869	28.861	(1.106)	9359	0.14970	0.1497	
80 Benzo(g,h,i)perylene	276		29.685	29.669	(1.138)	7577	0.12294	0.1229	
90 N-Nitrosodimethylamine	74		4.726	4.726	(0.516)	12751	0.49649	0.4965	
91 Aniline	93		8.611	8.619	(0.939)	24033	0.47136	0.4714	
93 Benzidine	184		21.030	21.015	(0.898)	12279	0.34708	0.3471	
103 Pyridine	79		4.780	4.757	(0.521)	19811	0.24276	0.2428	
105 1-methylnaphthalene	142		13.344	13.352	(1.143)	17117	0.23171	0.2317	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.739	16.739	(1.093)	18676	0.23219	0.2322	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123051.D Calibration Time: 13:17
 Lab Smp Id: SKL0355-LCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m, 31-DEC-2022 14:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.021	1.015	0.0061	4-Nitrophenol

RRT check based on Ccal File: NT1422123049.D

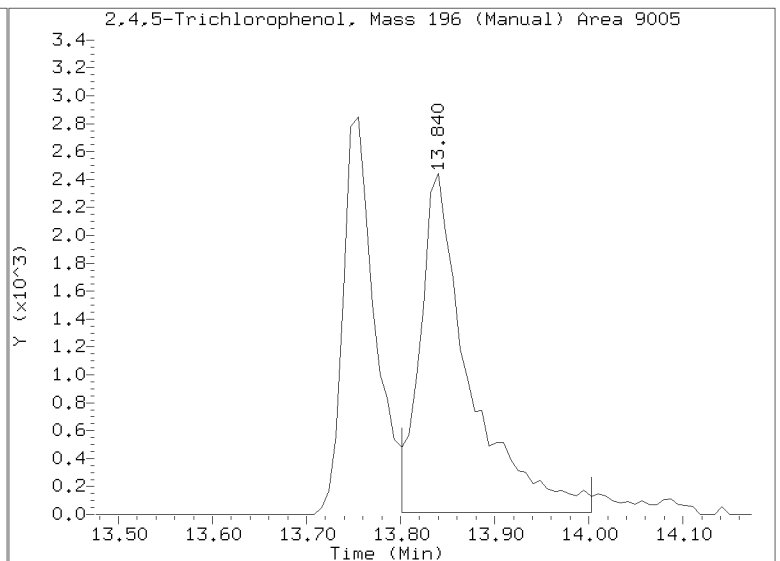
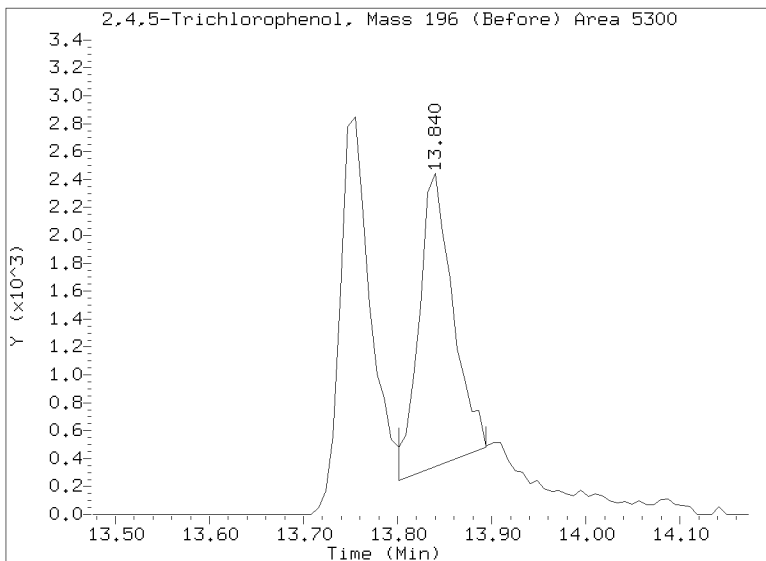
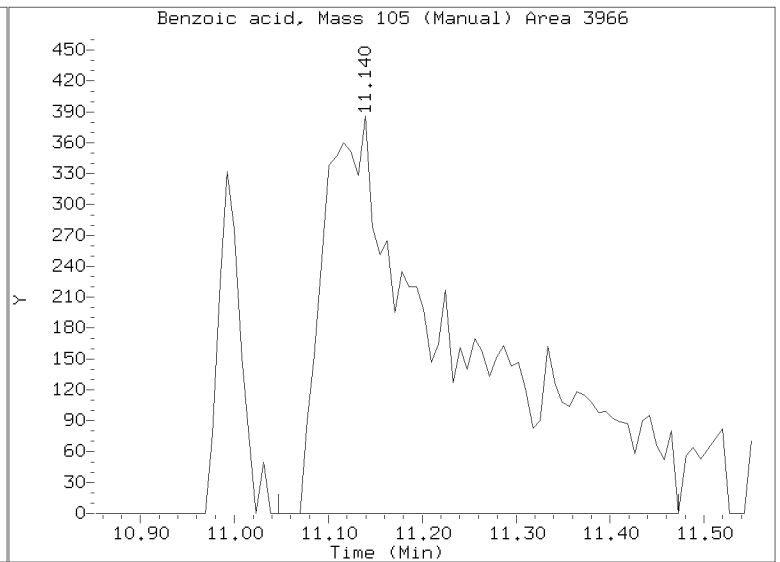
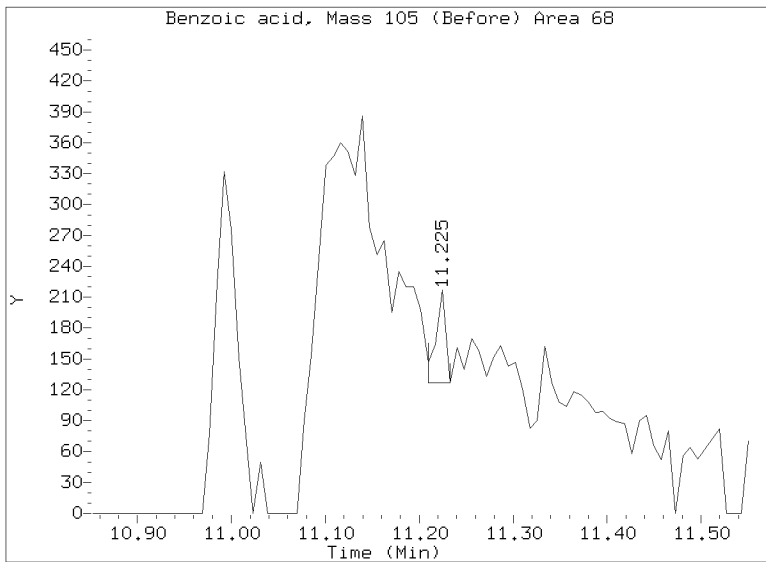
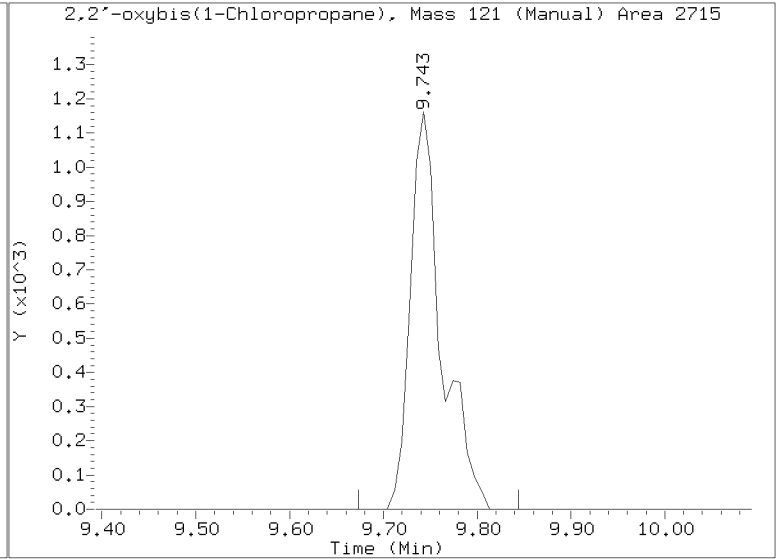
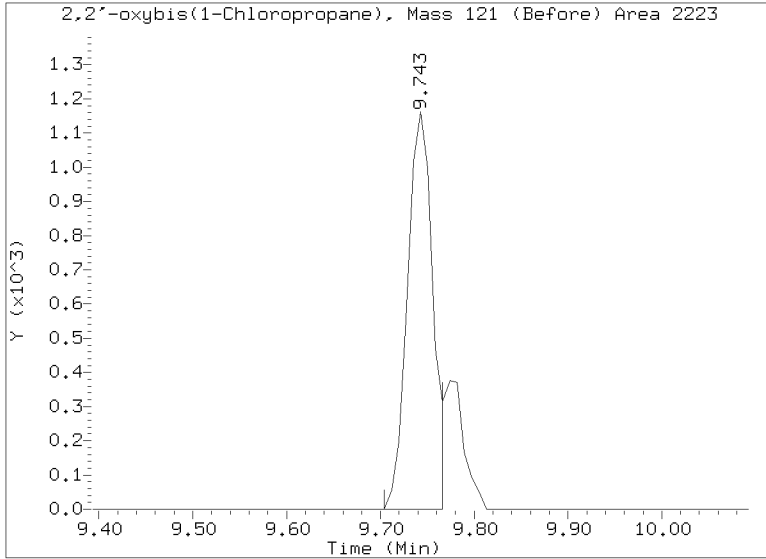
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

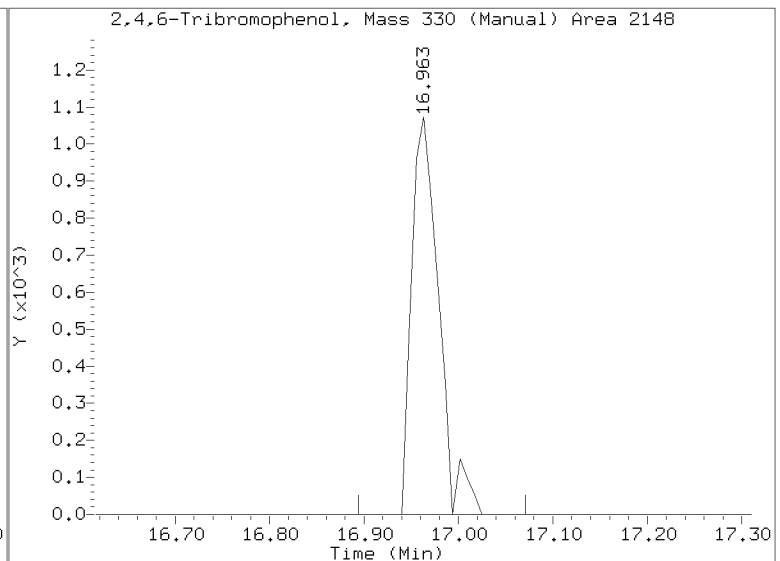
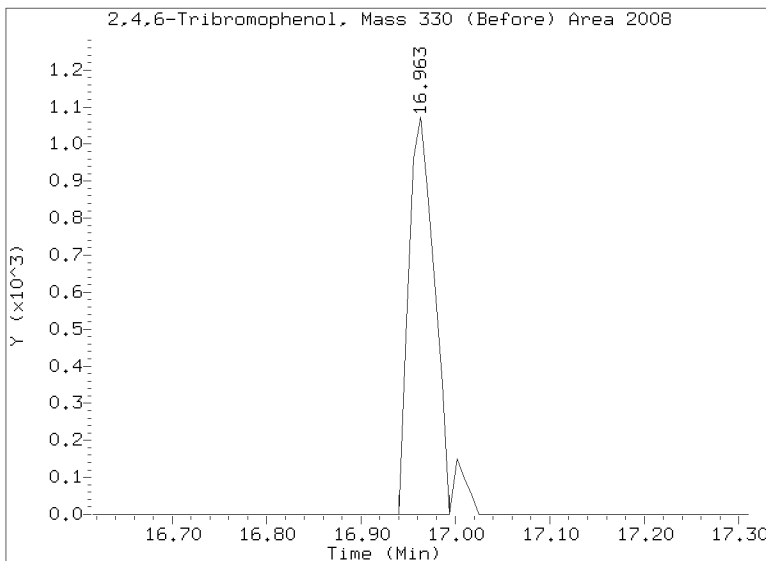
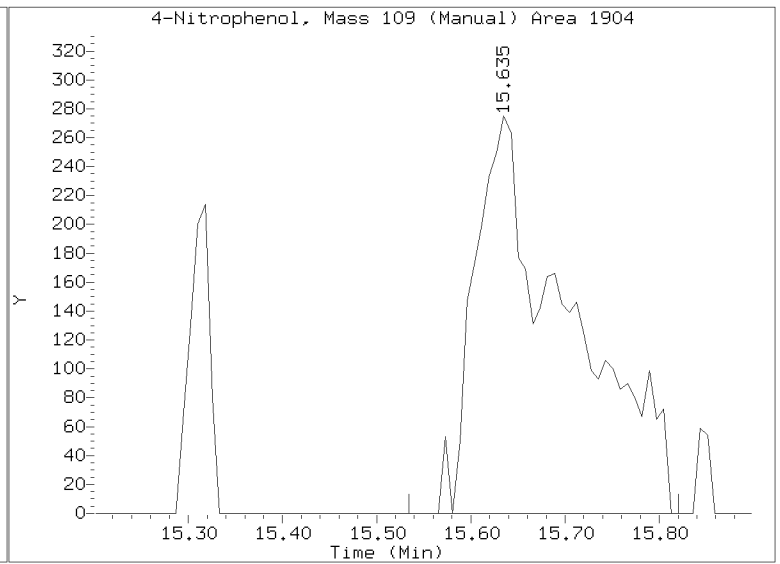
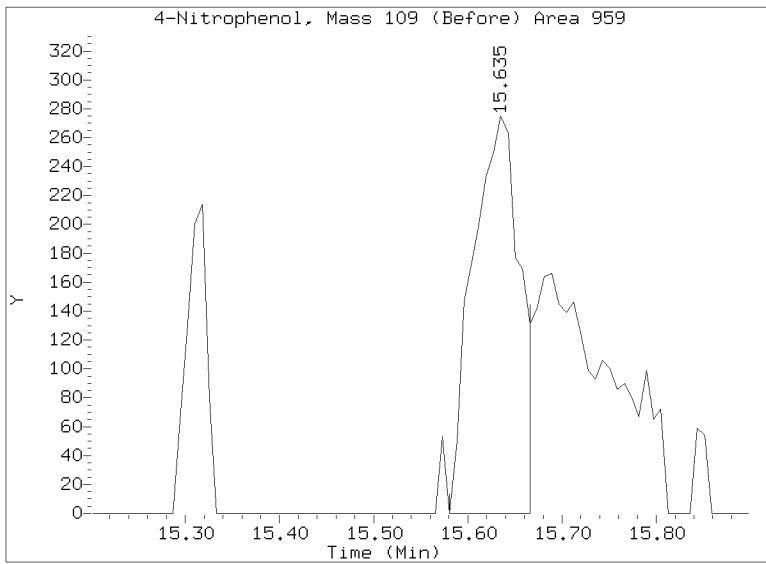
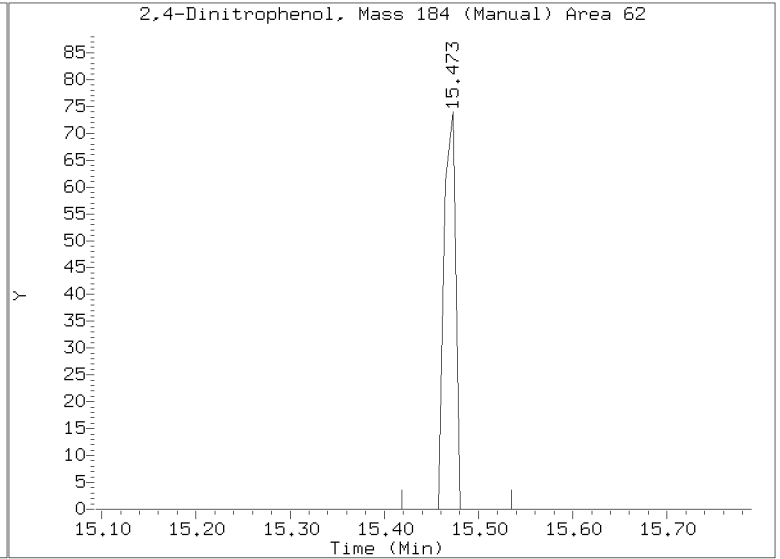
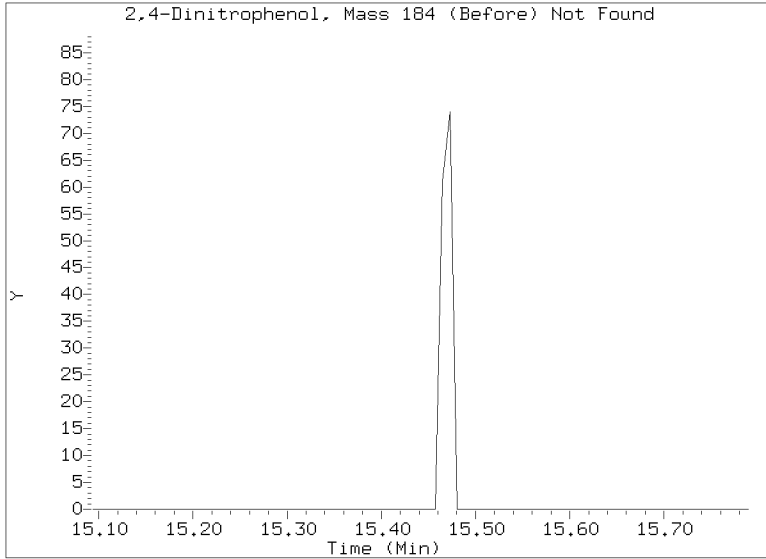
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

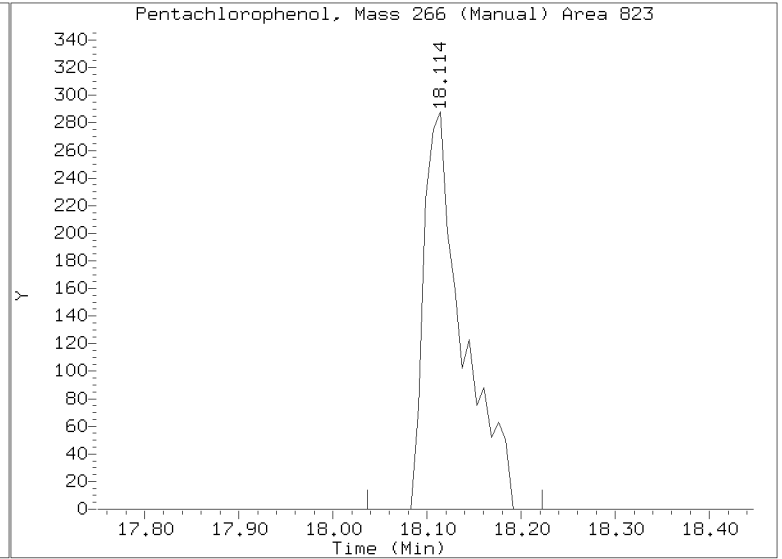
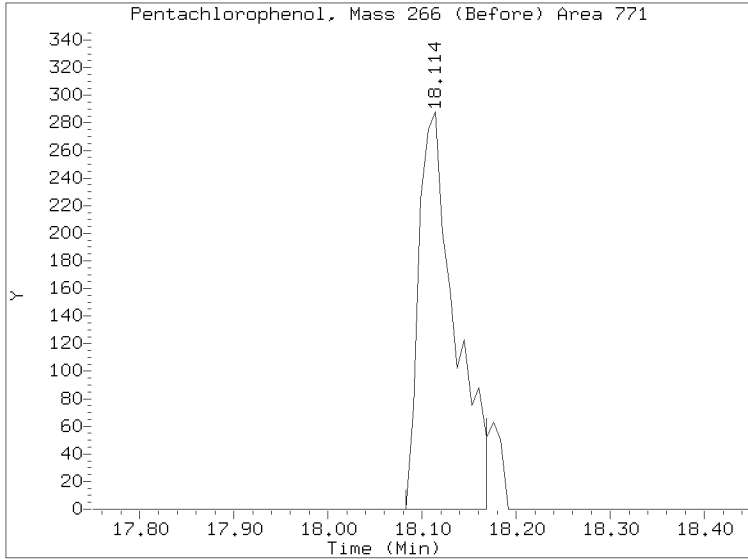
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123052.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-LCV2

Injection Time: 15:05

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7325950		-3.7	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.2028800		-3.0	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.4773280		1.1	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5328030		-1.0	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4452280		-1.5	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.3937480		-3.2	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6069011		-24.2	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3849990		-7.7	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2638830		-3.3	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4023809		-25.4	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.7414943		-6.9	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.3097020		-5.1	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3113681		-7.2	+/-50
Isophorone	A	0.50000	0.4	0.4275424	0.3691814		-13.7	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1872995		-8.8	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3459800		-1.2	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3219622		-3.2	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2928144		-0.8	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3073790		-3.7	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9536598		-3.1	+/-50
Benzoic acid	A	2.0000	0.3	0.1508906	0.0352427		-83.5	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3530953		-13.0	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1491346		-5.8	+/-50
4-Chloro-3-Methylphenol	A	1.0000	1.0	0.2785027	0.2652529		-4.8	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6753359		-6.5	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0324758		-89.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2972496		-11.0	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.9	0.3853234	0.3465413		-10.1	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1170750		-2.4	+/-50
2-Nitroaniline	A	1.0000	0.9	0.3007956	0.2768032		-8.0	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.8565410		6.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.0504970		-6.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2167644		-14.9	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0745560		-0.7	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123052.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 12/31/22

Lab Sample ID: SKL0355-LCV2

Injection Time: 15:05

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2476688		-20.0	+/-50
2,4-Dinitrophenol	A	2.0000	0.1	0.1831718	0.0156780		-92.8	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5989740		-1.5	+/-50
4-Nitrophenol	A	1.0000	0.6	0.1384031	0.0959645		-35.2	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2720167		-22.1	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6695970		-3.3	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.7748683		-8.3	+/-50
Diethyl phthalate	A	0.50000	0.5	1.5332690	1.6478860		7.5	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.2954253		-20.7	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.8	0.1530278	0.0635845		-62.2	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7018379		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2548545		-1.9	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2795359		-2.0	+/-50
Pentachlorophenol	A	1.0000	0.2	0.1128364	0.0278031		-77.5	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0191030		-2.3	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9325724		-6.3	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.8870049		-7.8	+/-50
Di-n-Butylphthalate	A	0.50000	0.4	1.0394700	0.9331563		-14.3	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.1960540		-7.1	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.2671330		-6.4	+/-50
Butylbenzylphthalate	A	0.50000	0.4	0.4650792	0.4535222		-11.3	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.1750560		-3.0	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.5	0.3709370	0.3656682		-1.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1213670		-2.0	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4179763		-5.9	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9369664		-2.4	+/-50
Benzofluoranthenes, Total	A	1.0000	1.0	1.2153330	1.2422410		2.2	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.0482420		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.7686082		-35.3	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.6655969		-34.1	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.3	0.9951726	0.5323711		-46.5	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6611238		-4.7	+/-50
2-Fluorophenol	A	0.75000	0.711	1.2814900	1.2153120		-5.2	+/-50
Phenol-d5	A	0.75000	0.658	1.5836890	1.3889980		-12.3	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>FL00066</u>
Lab File ID:	<u>NT1422123052.D</u>	Calibration Date:	<u>12/30/2022</u>
Sequence:	<u>SKL0355</u>	Injection Date:	<u>12/31/22</u>
Lab Sample ID:	<u>SKL0355-LCV2</u>	Injection Time:	<u>15:05</u>
Sequence Name:	<u>ABN 0.5</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.686	1.3300510	1.2163330		-8.5	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.471	0.9090592	0.8557086		-5.9	+/-50
Nitrobenzene-d5	A	0.50000	0.460	0.3377760	0.3106074		-8.0	+/-50
2-Fluorobiphenyl	A	0.50000	0.474	1.3448860	1.2758050		-5.1	+/-50
2,4,6-Tribromophenol	A	0.75000	0.536	0.1844845	0.1341178		-28.6	+/-50
p-Terphenyl-d14	A	0.50000	0.454	0.9601842	0.8718034		-9.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230B.B\NT1422123052.D

Date: 31-DEC-2022 15:05

Client ID:

Sample Info: SKL0356-LCW2

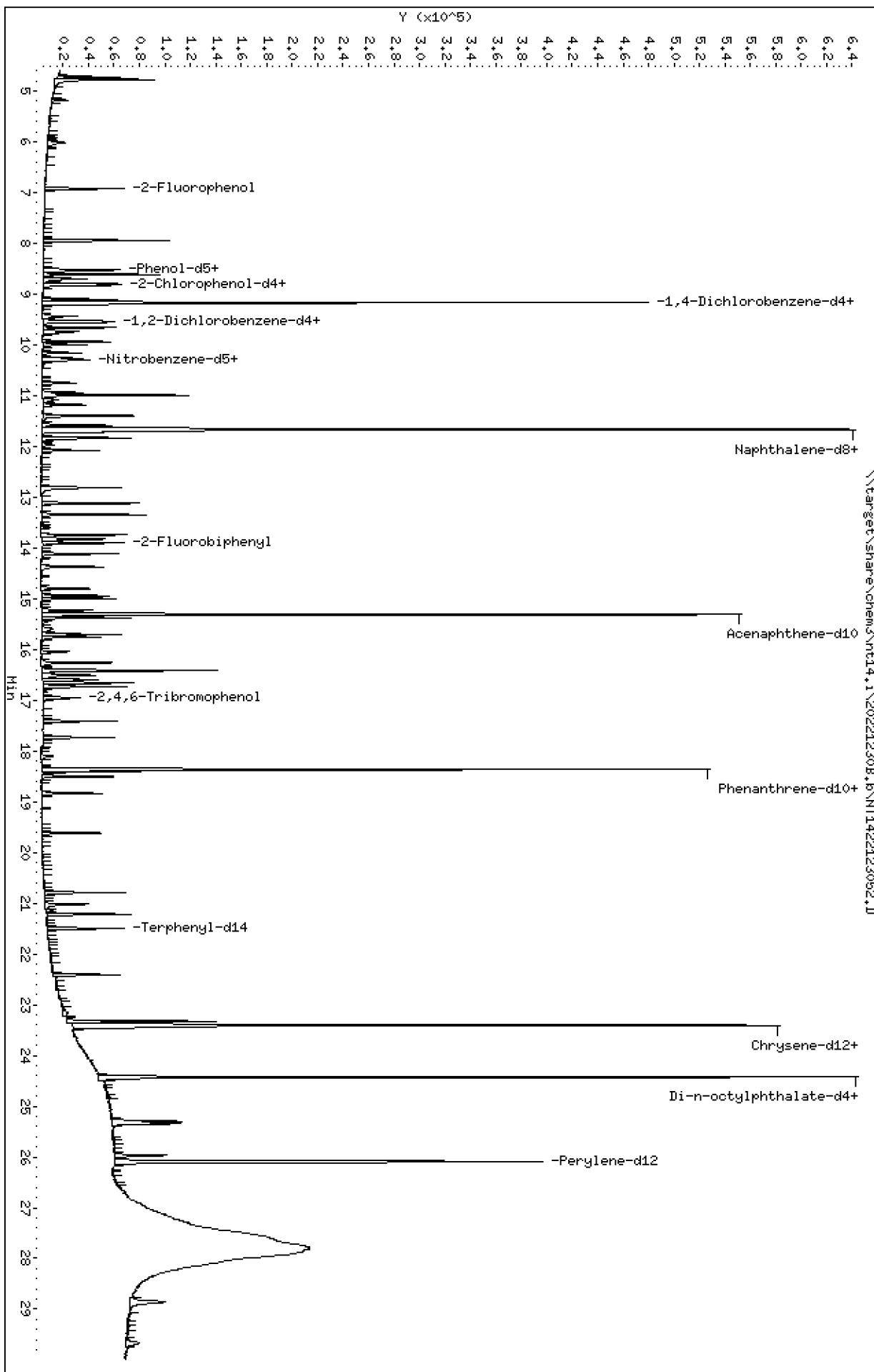
Instrument: nt14.1

Column phase: ZB-5msi

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20221230B.B\NT1422123052.D



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

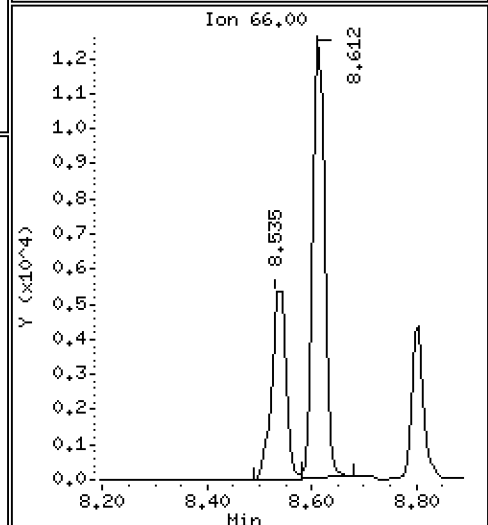
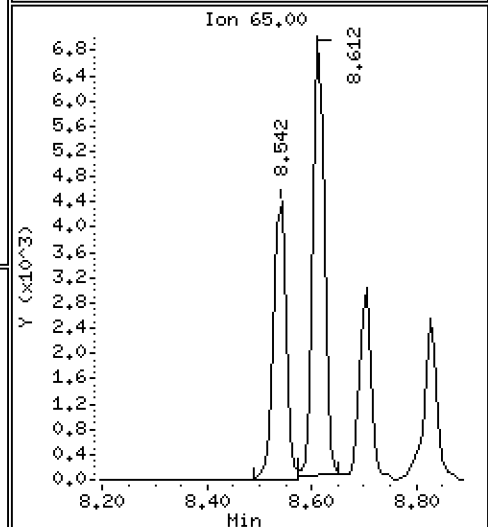
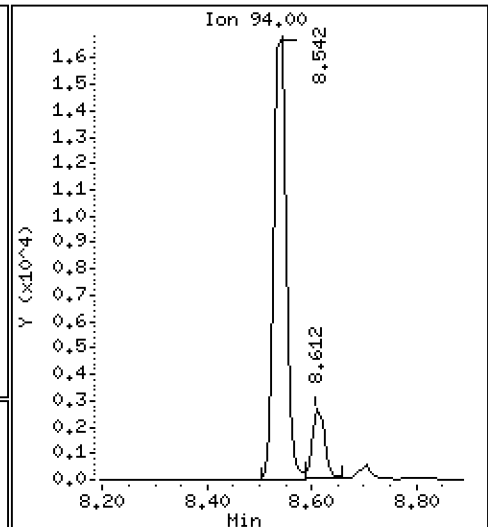
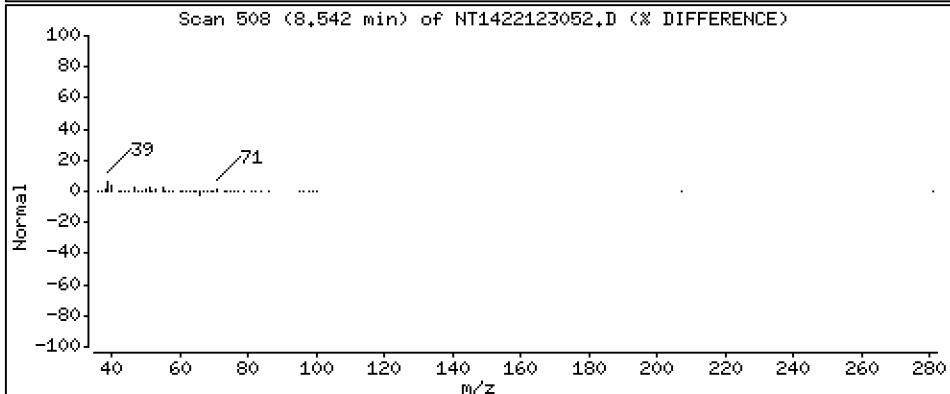
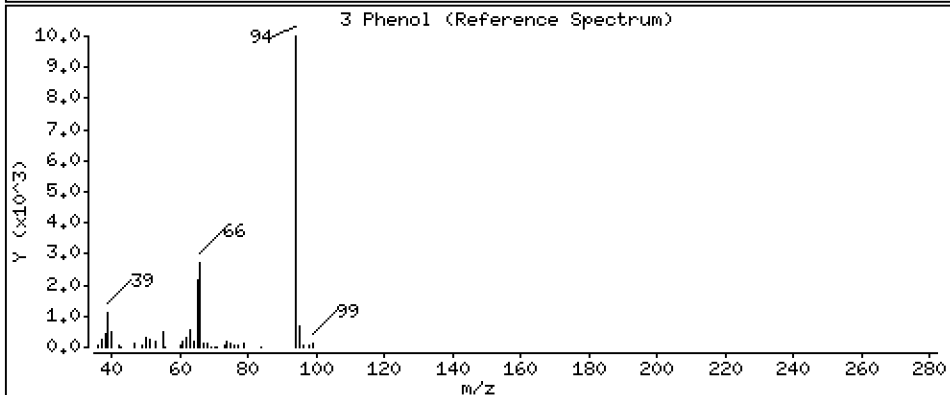
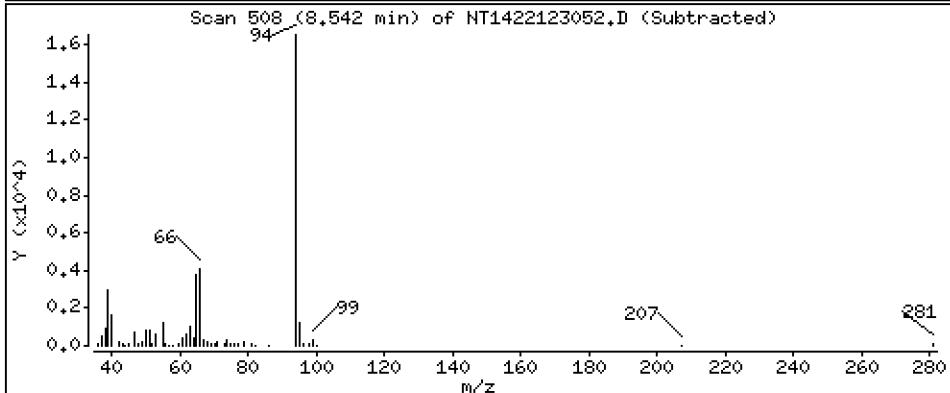
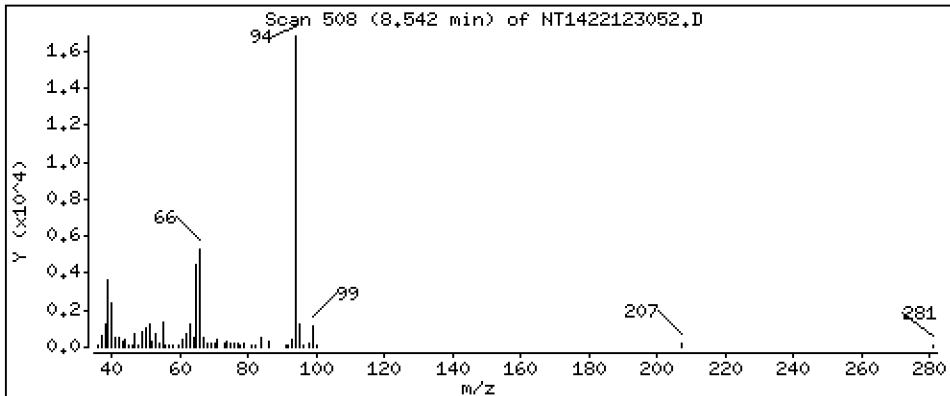
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4814 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

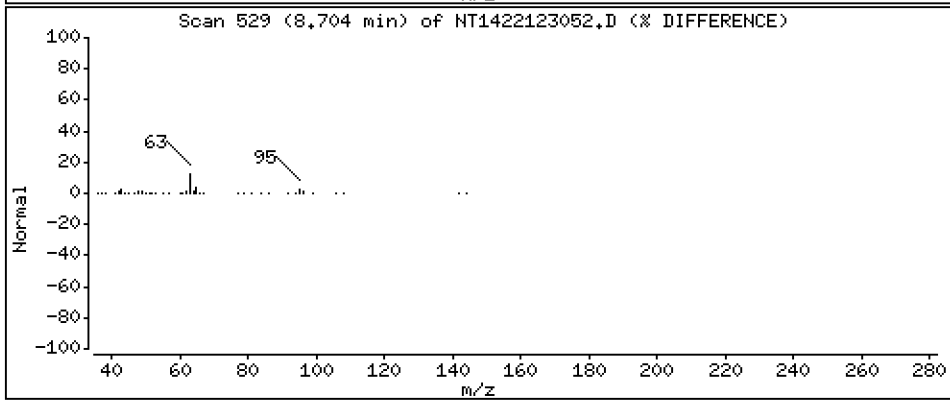
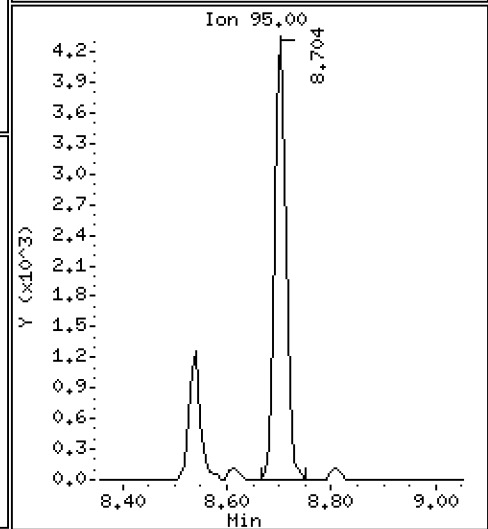
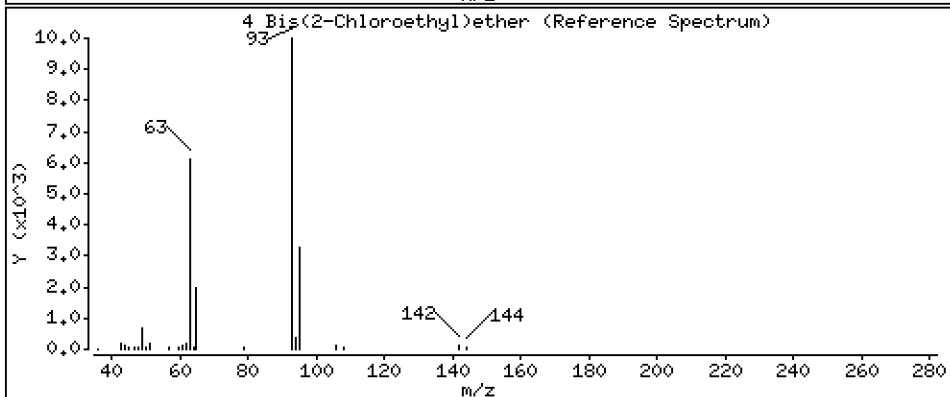
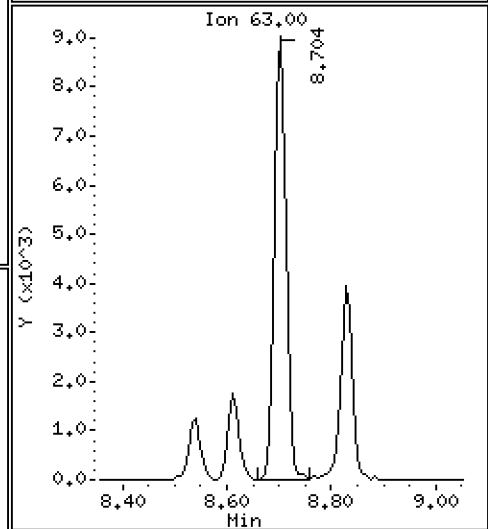
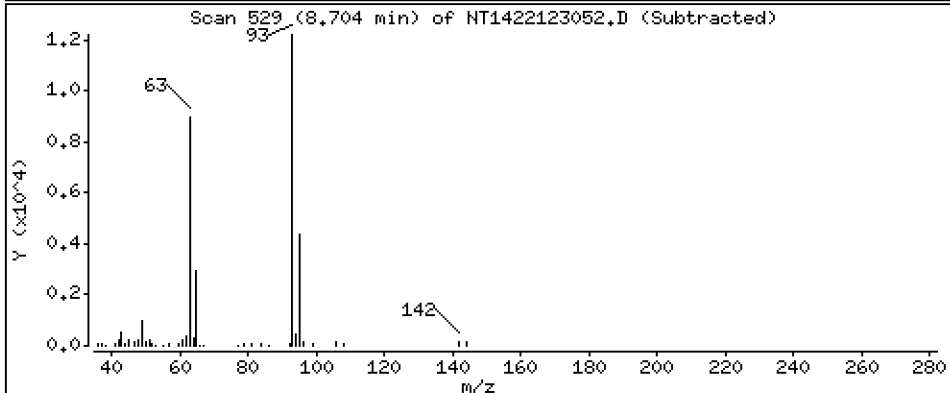
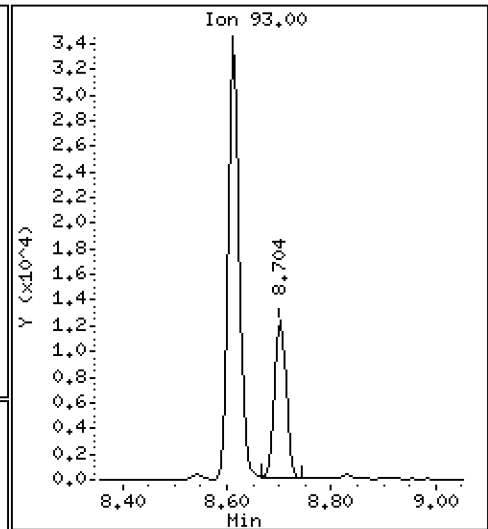
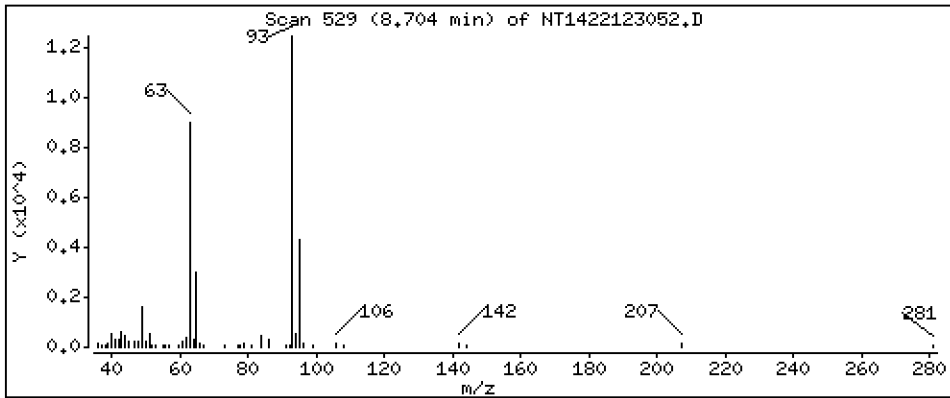
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,4852 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

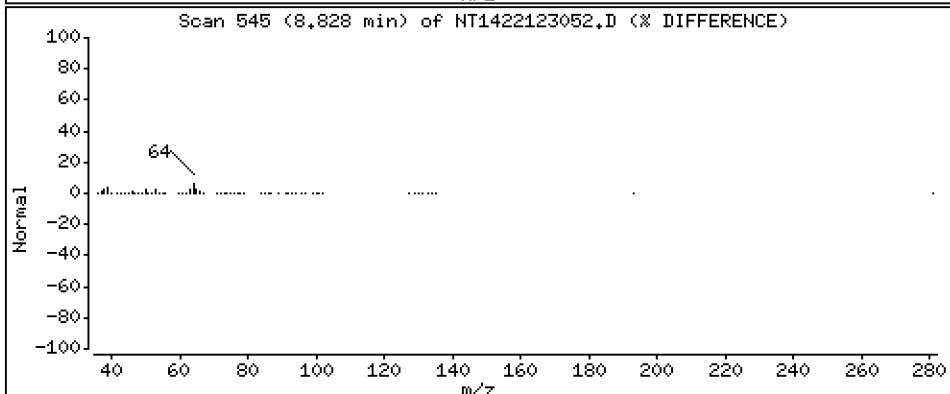
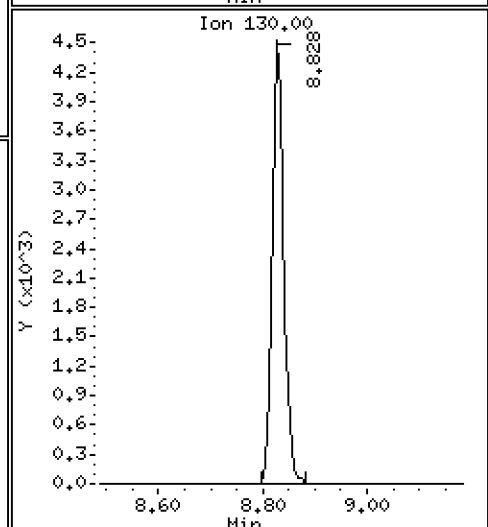
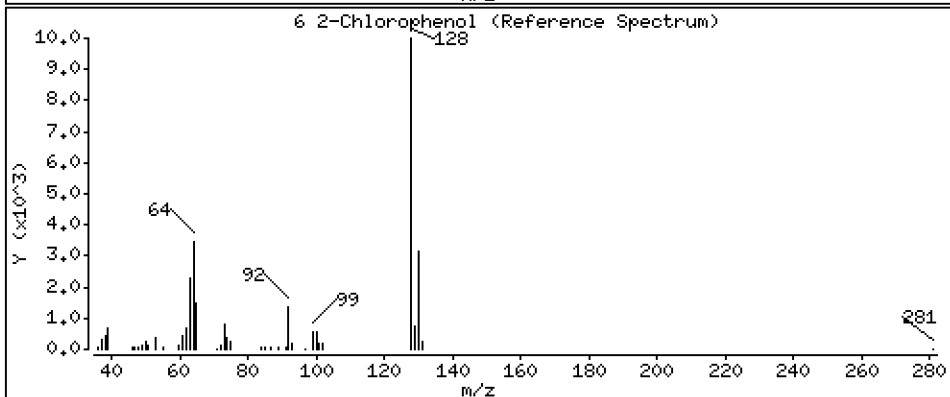
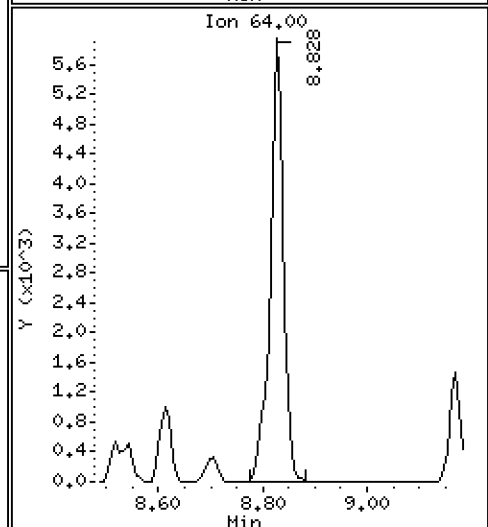
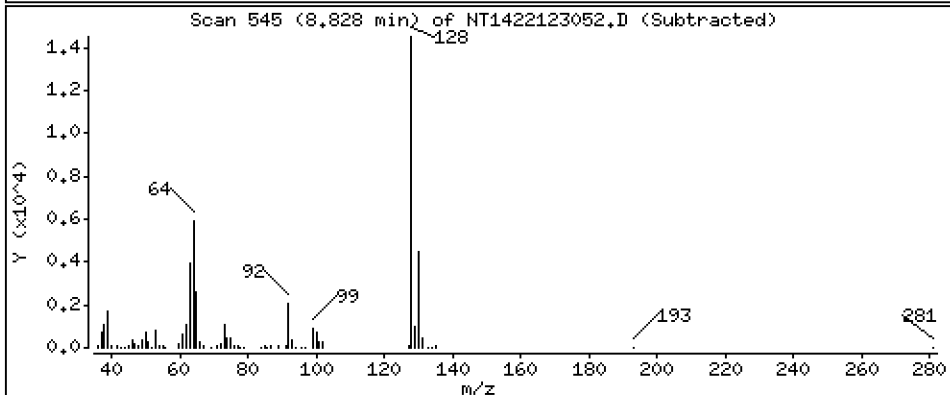
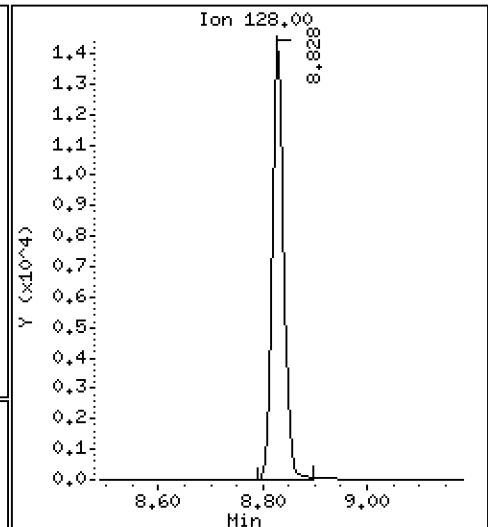
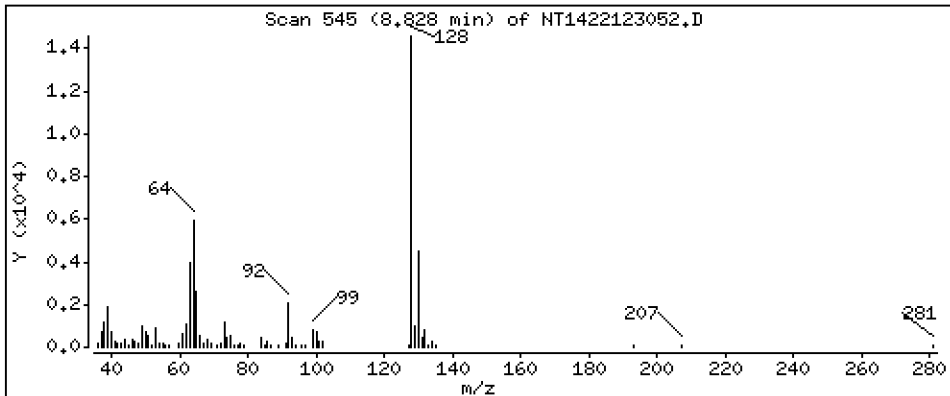
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5057 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

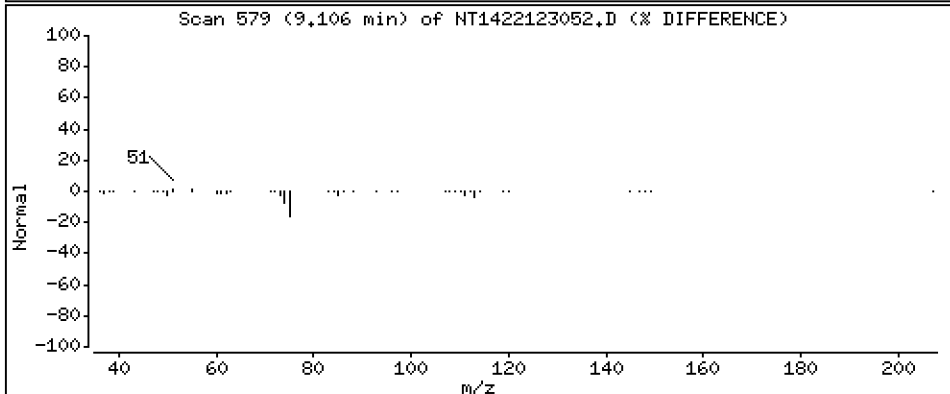
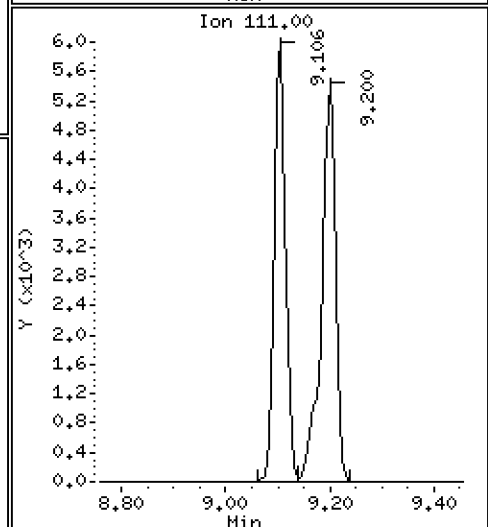
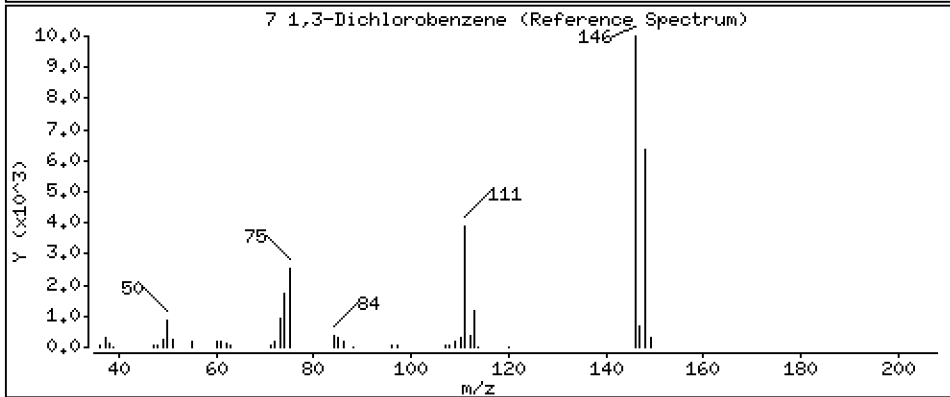
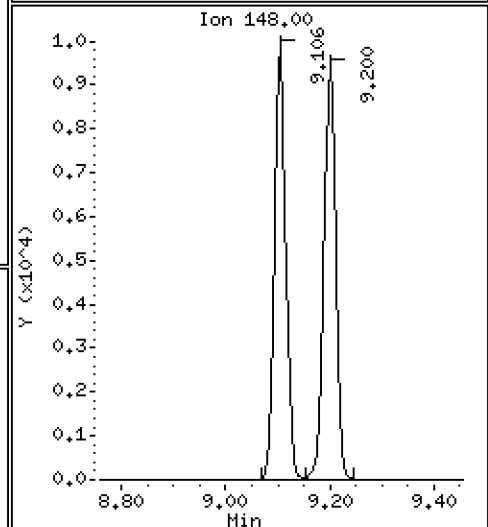
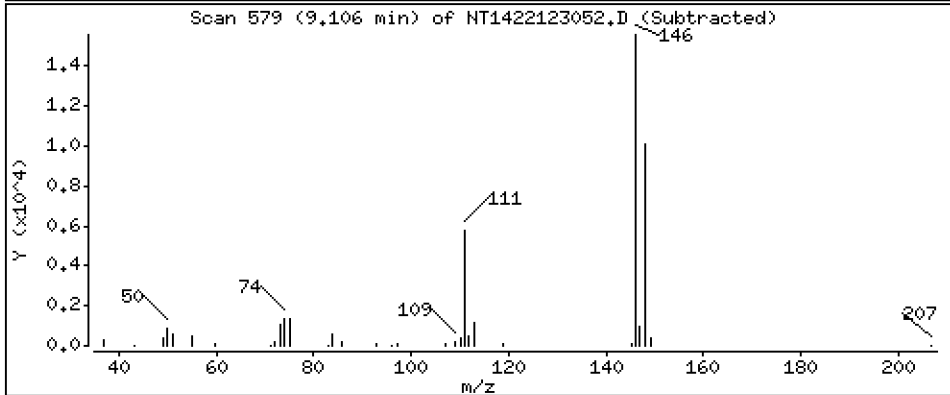
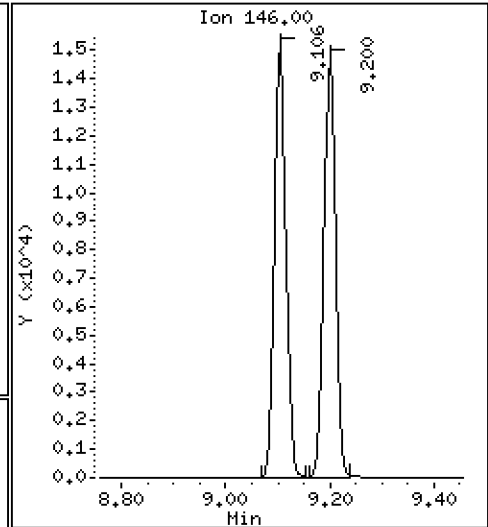
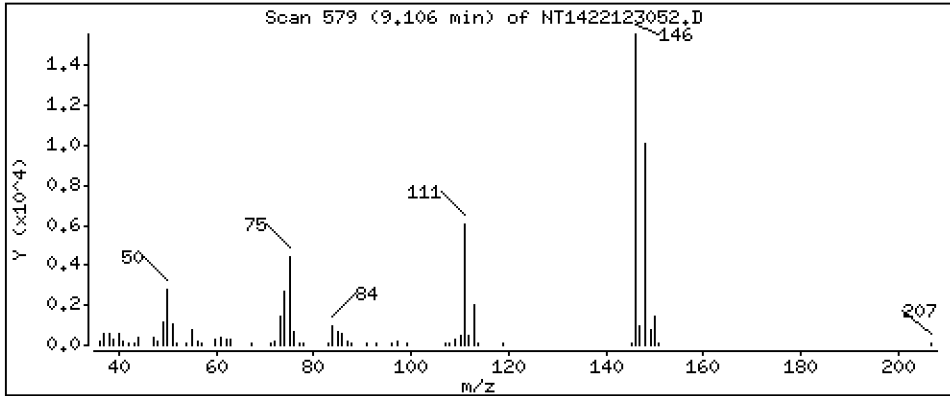
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.4948 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

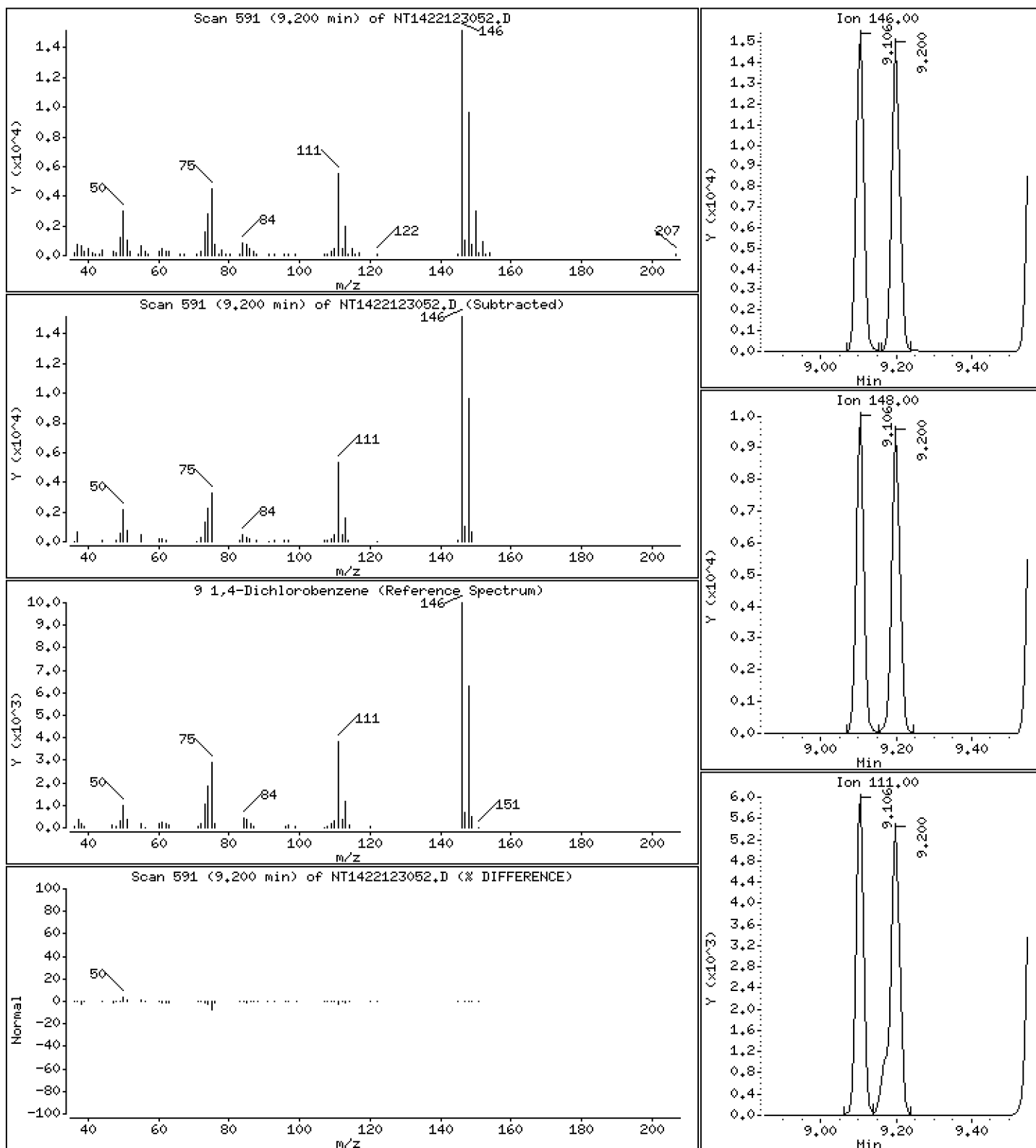
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,4924 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

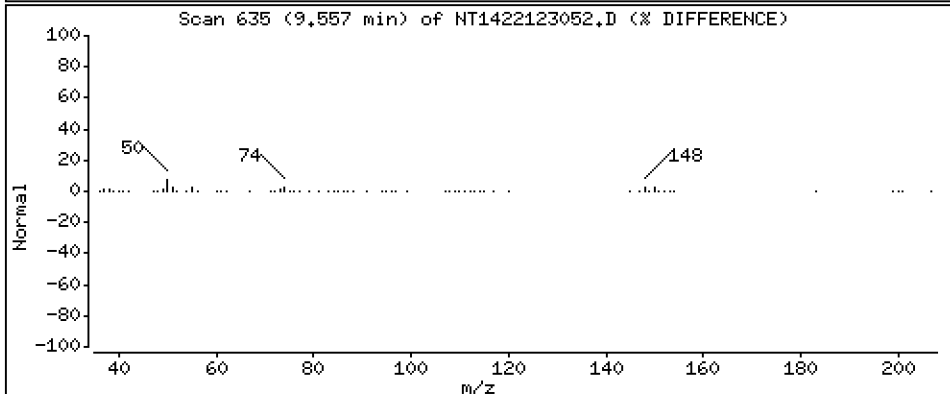
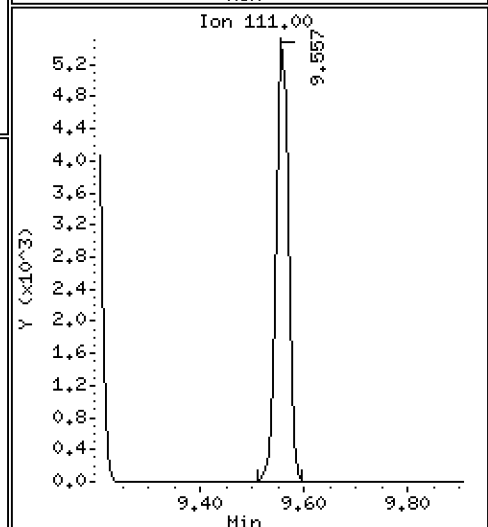
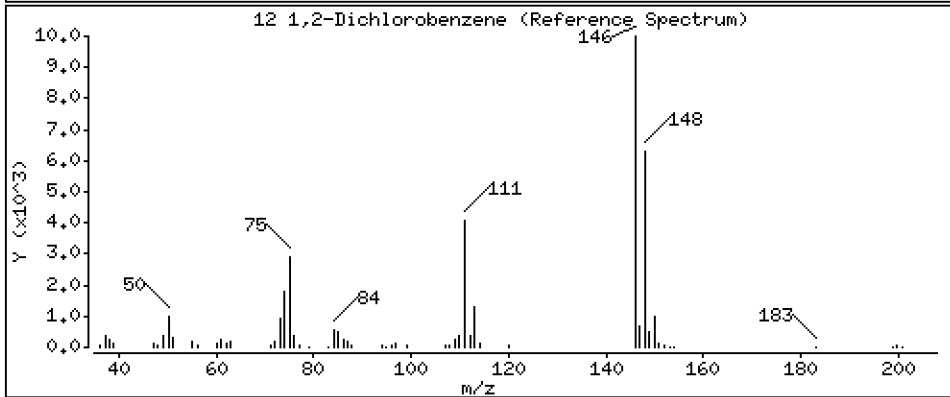
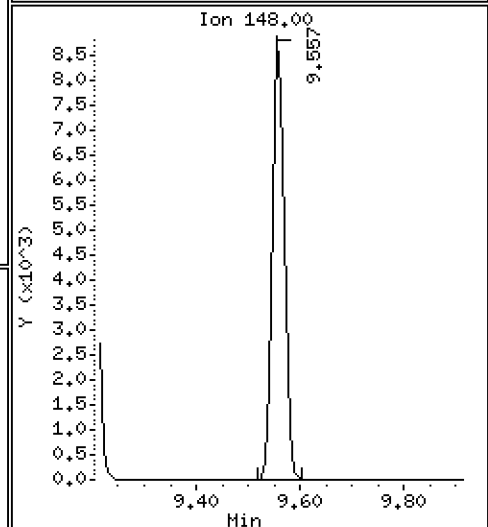
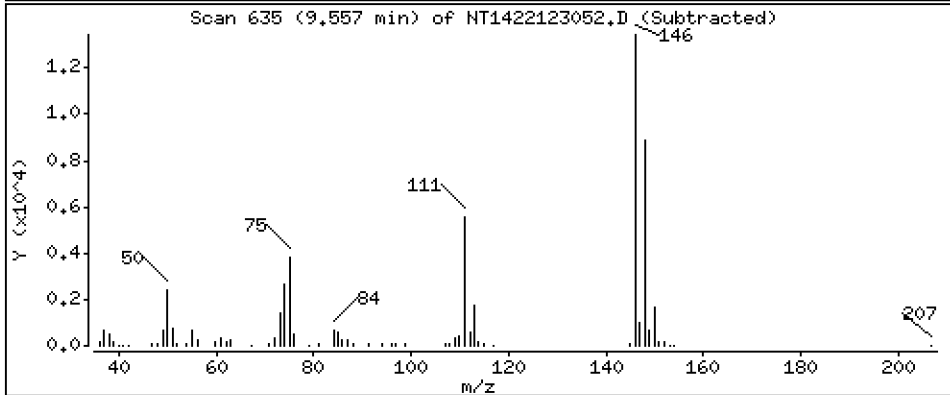
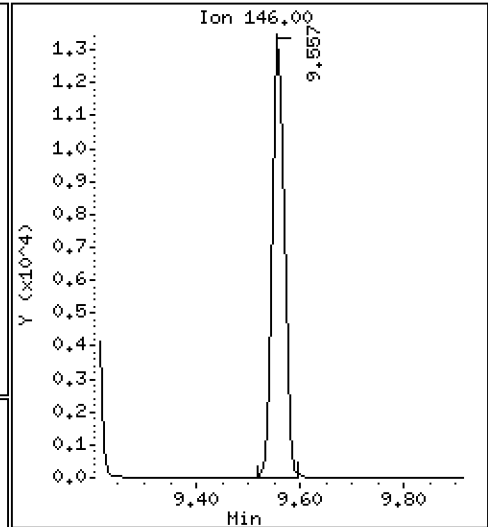
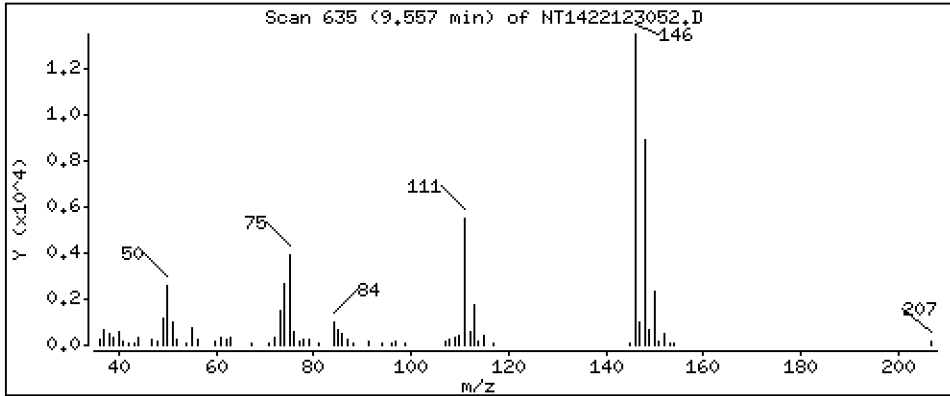
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.4842 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

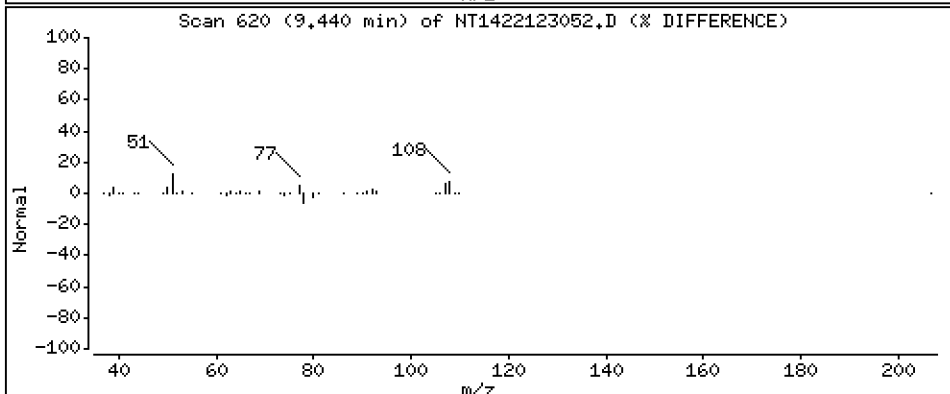
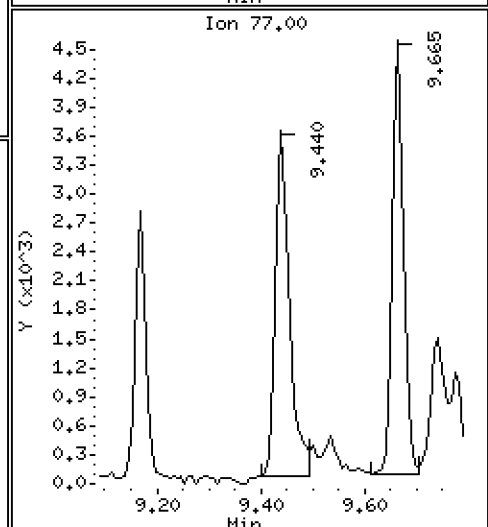
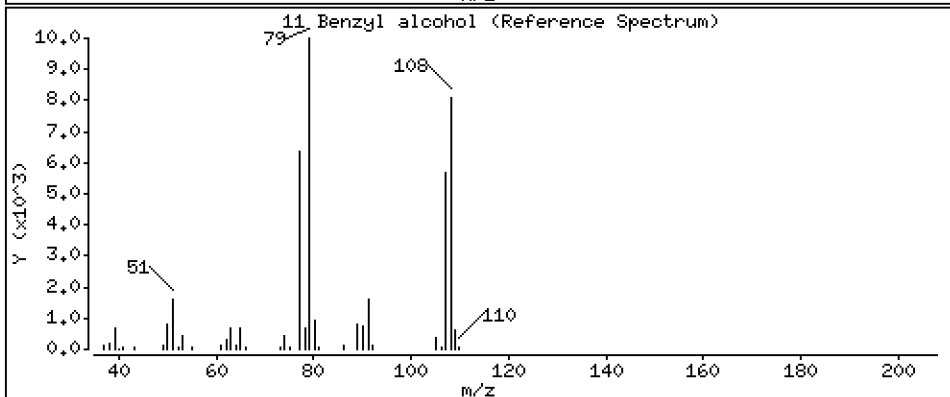
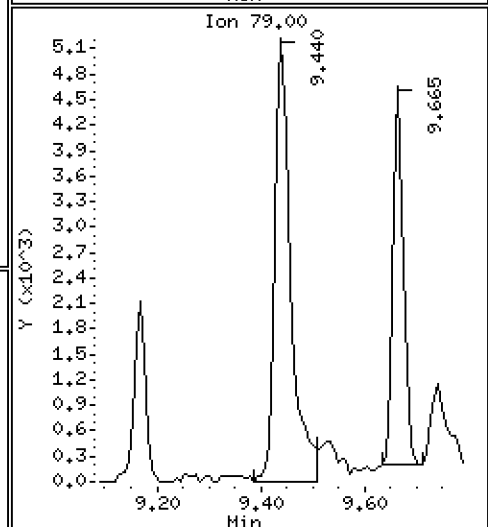
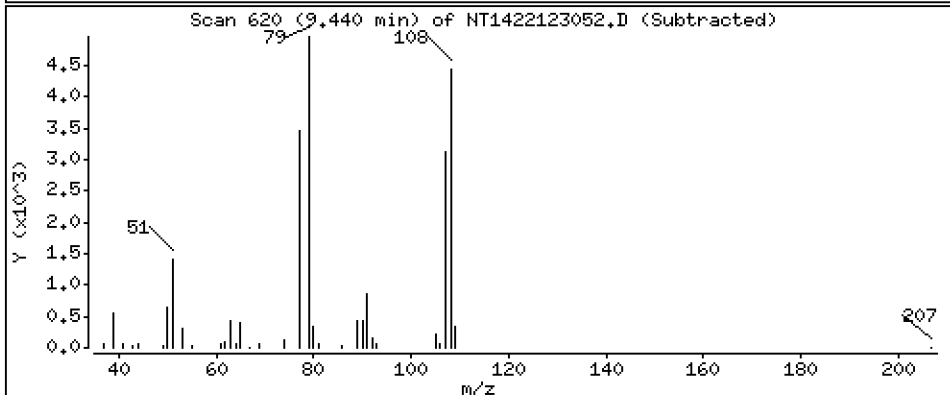
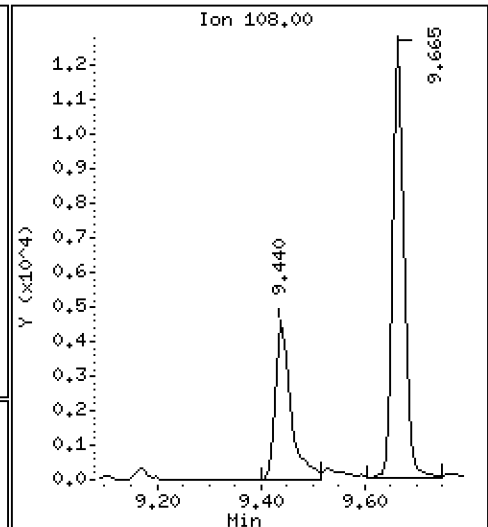
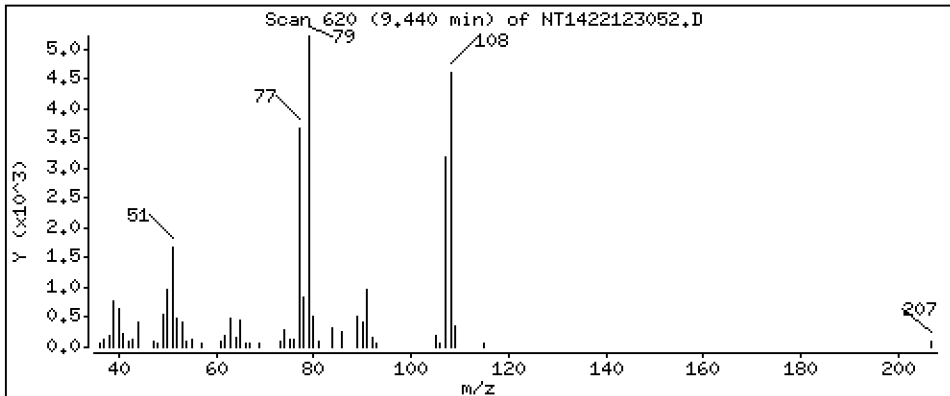
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

11 Benzyl alcohol

Concentration: 0,3788 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

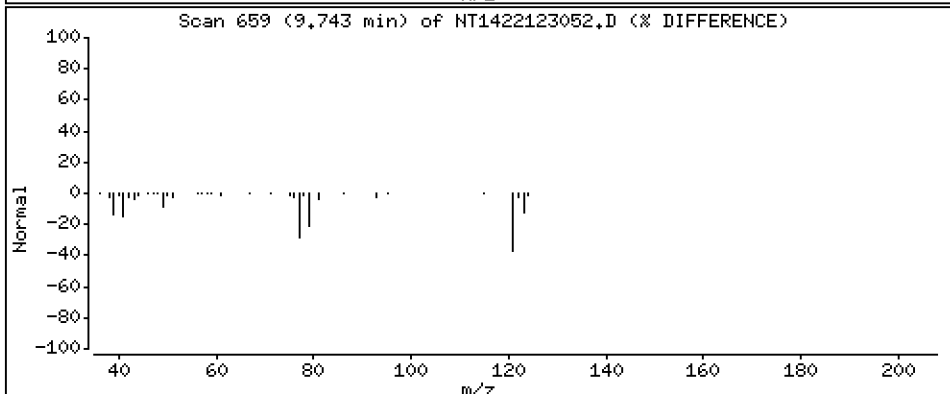
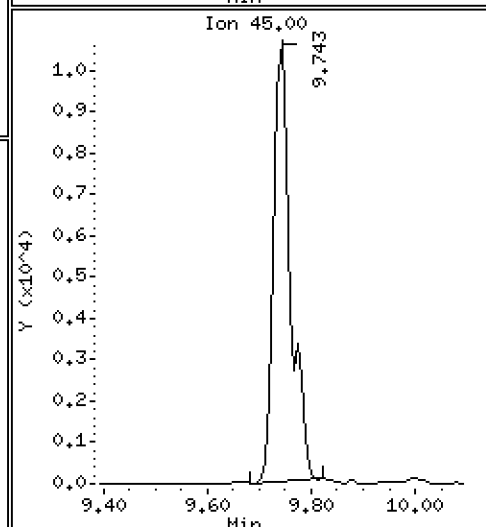
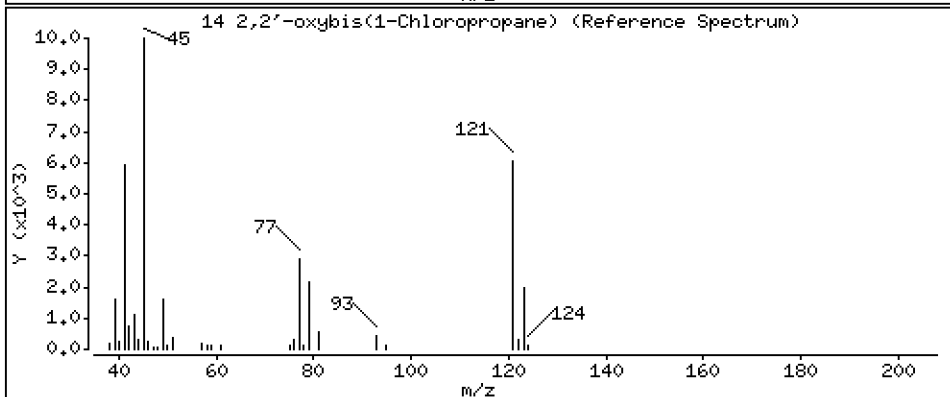
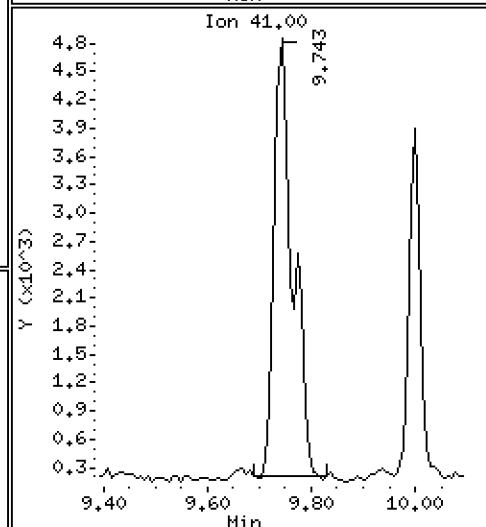
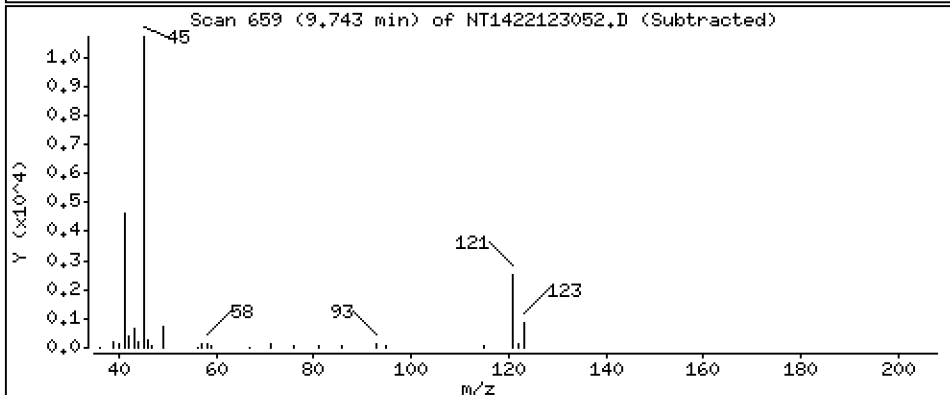
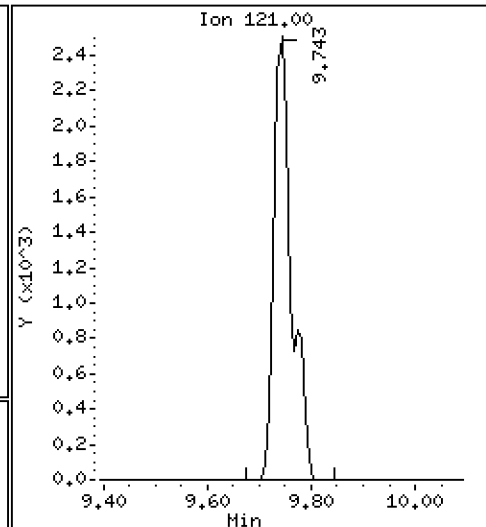
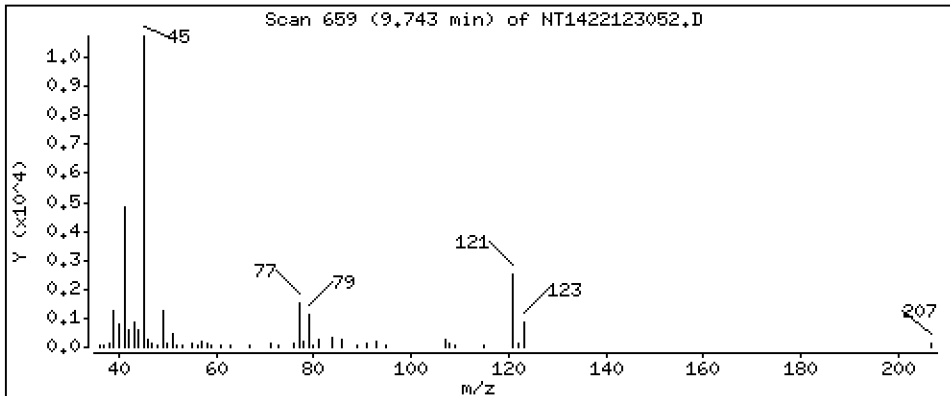
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

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

Concentration: 0.4614 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

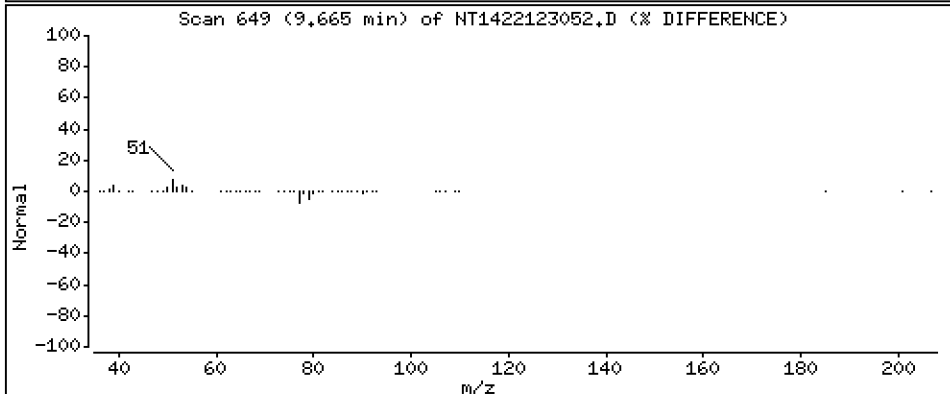
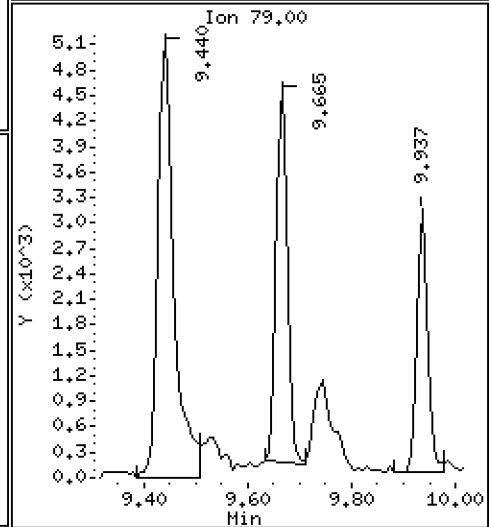
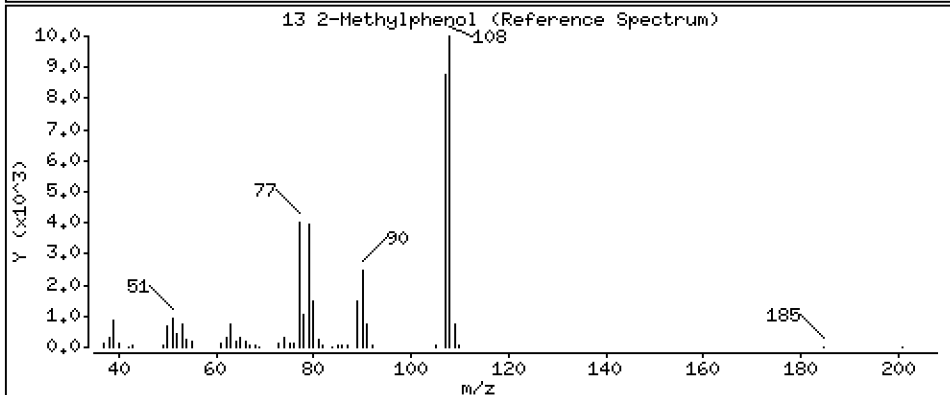
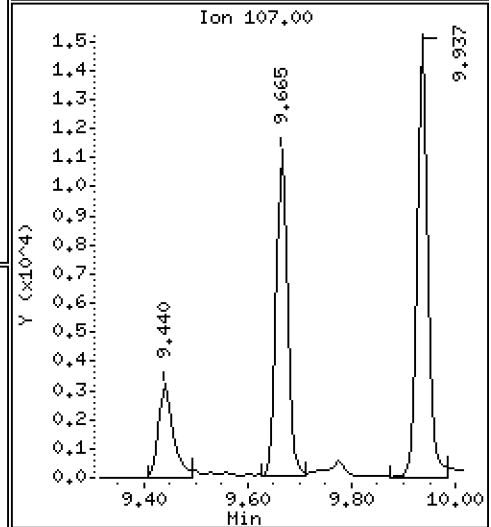
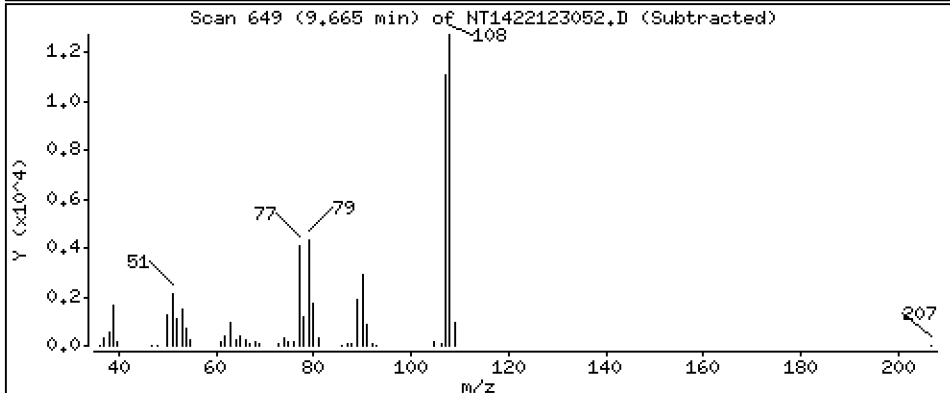
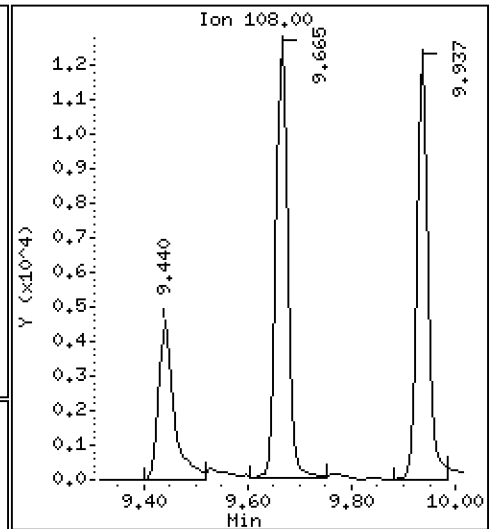
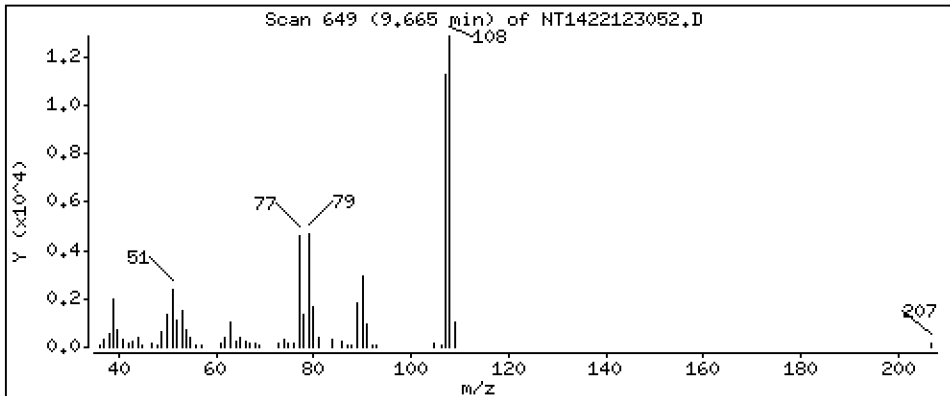
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.4833 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

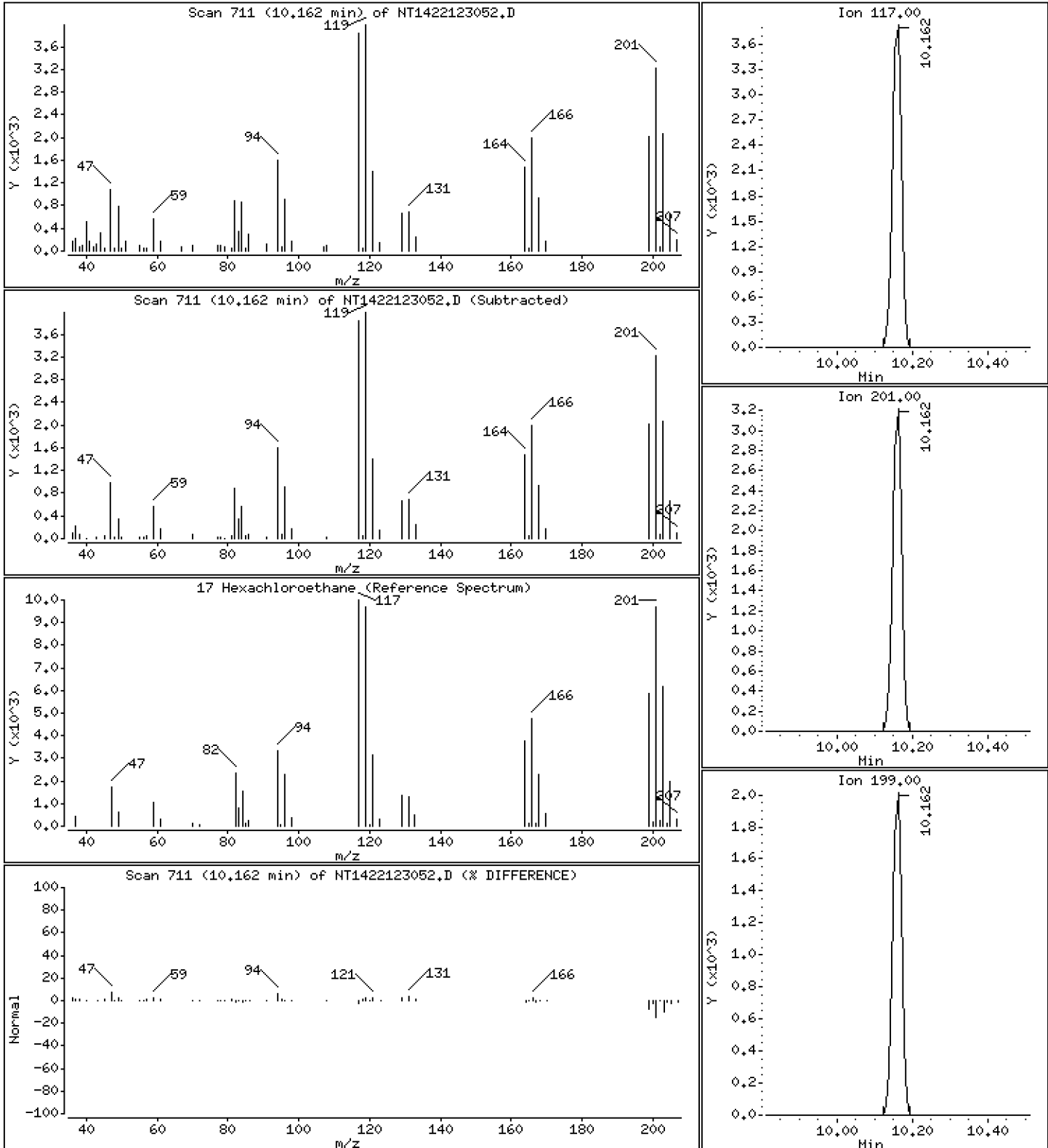
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,3728 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

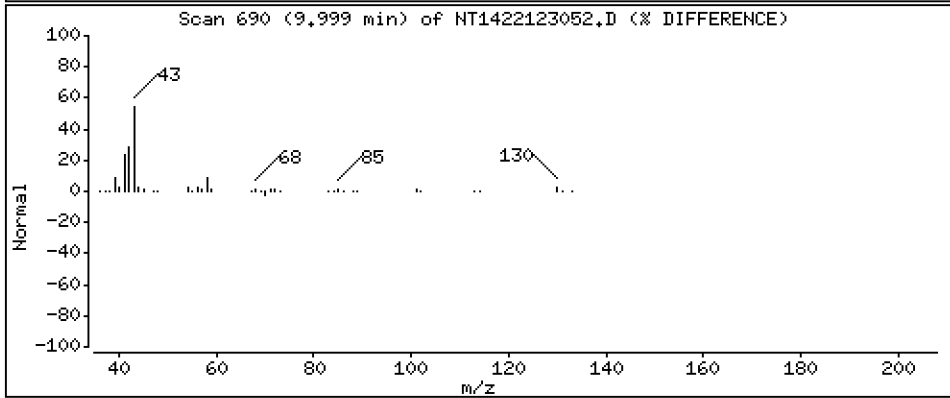
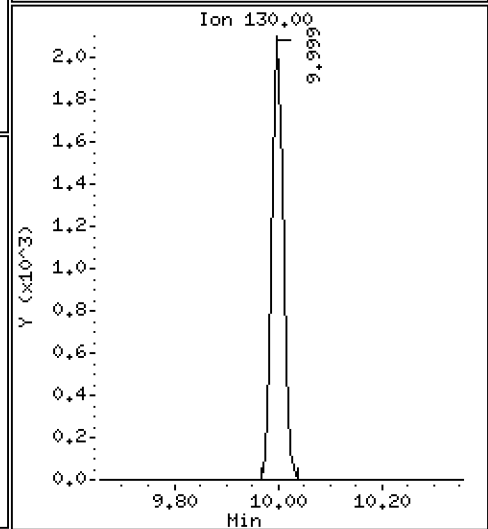
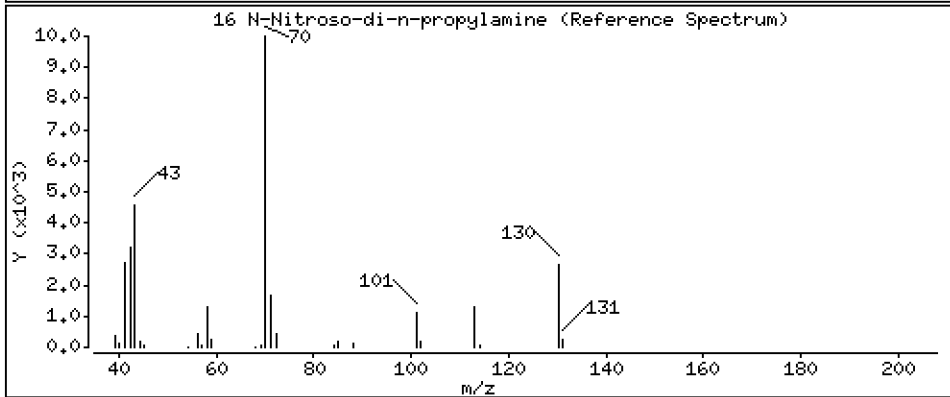
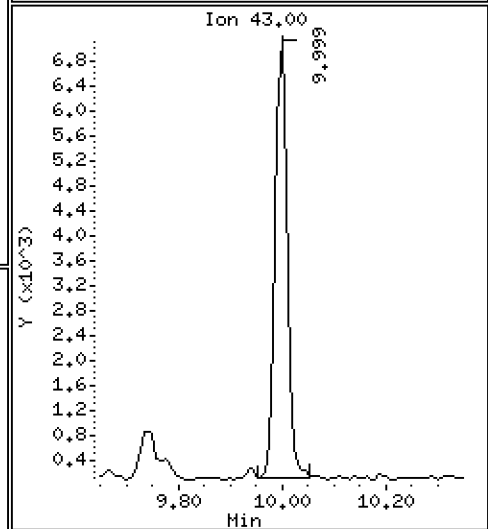
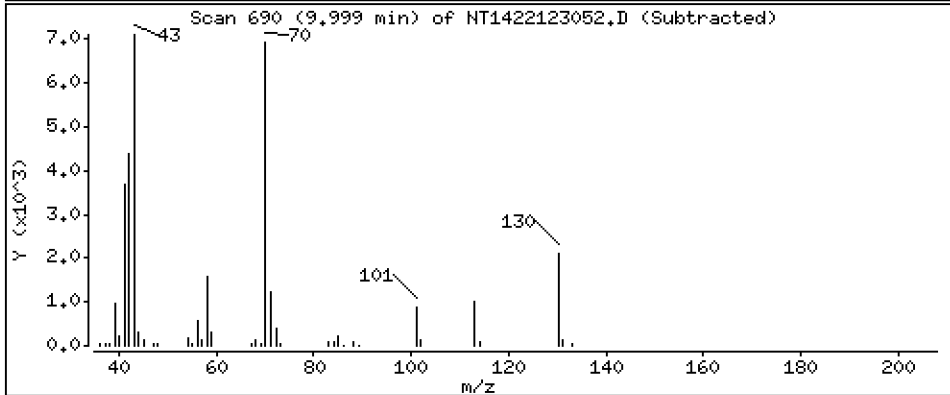
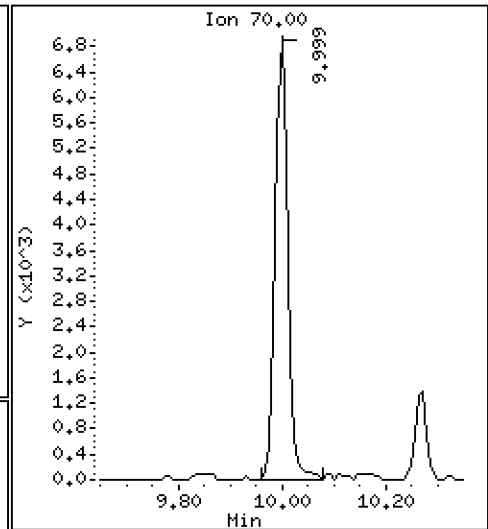
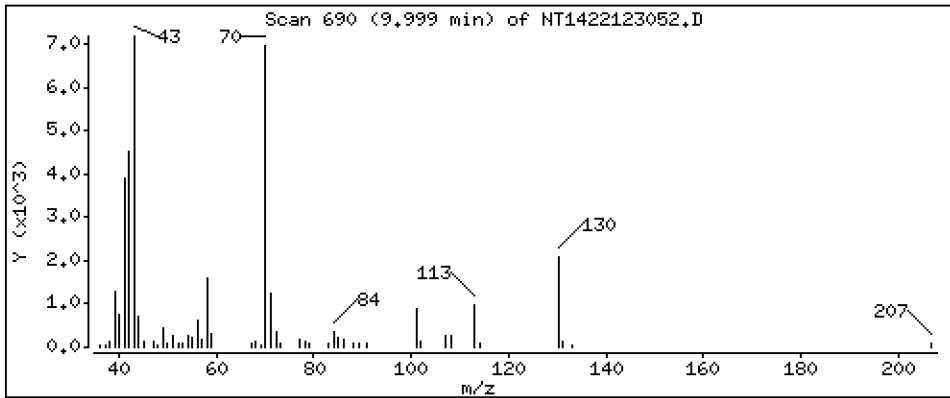
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,4654 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

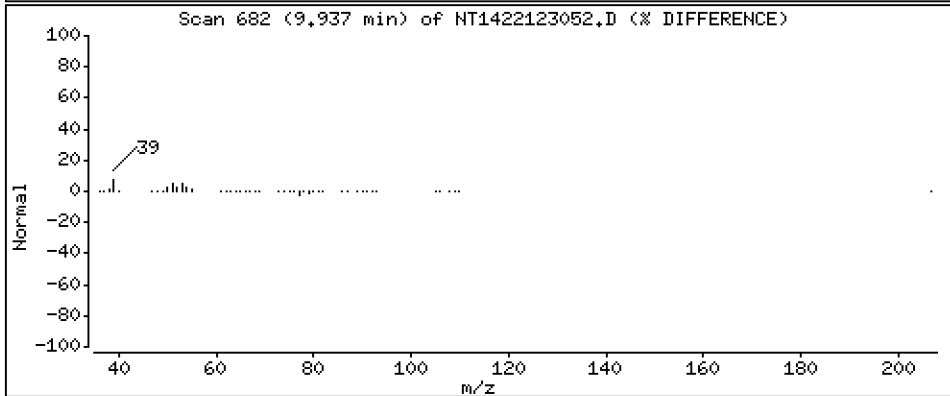
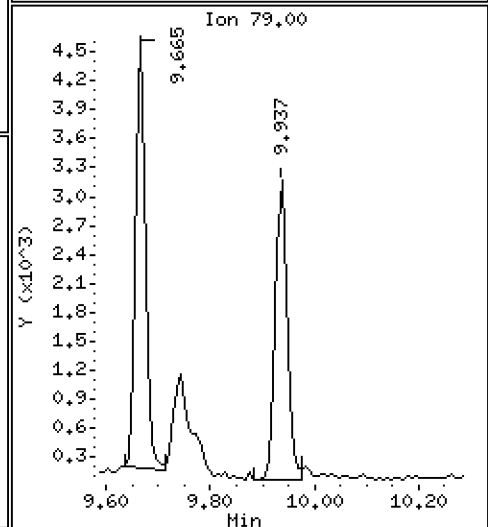
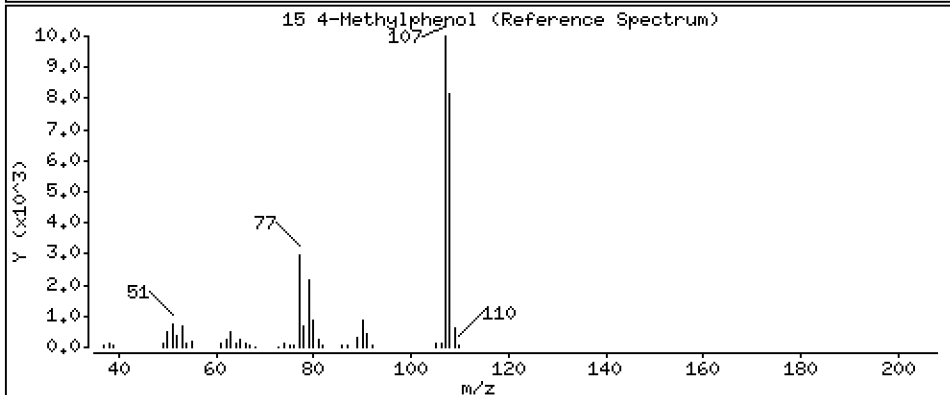
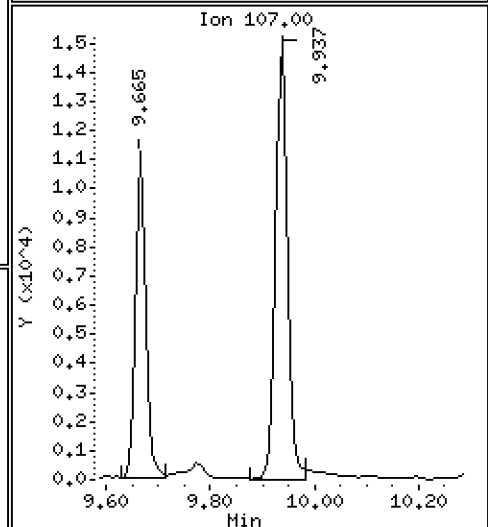
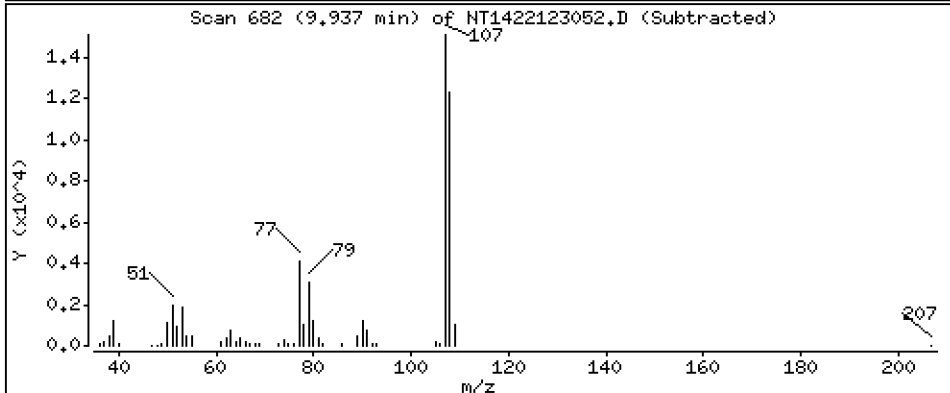
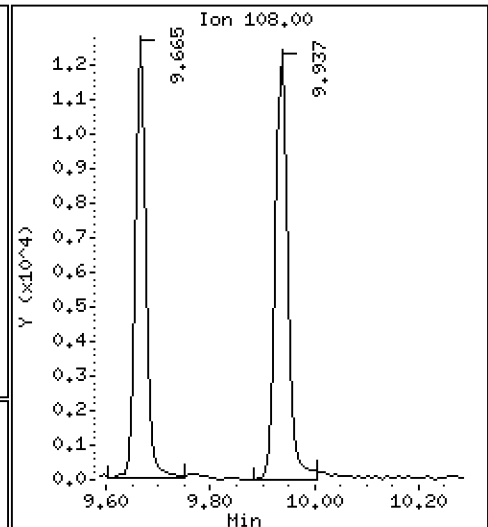
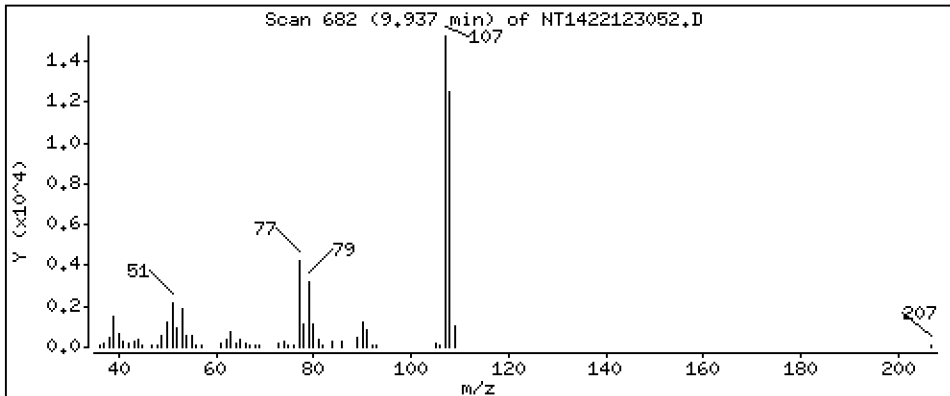
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4747 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

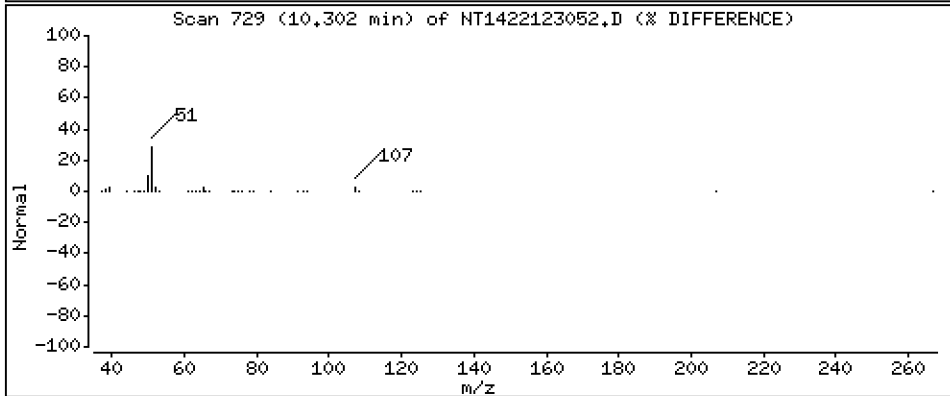
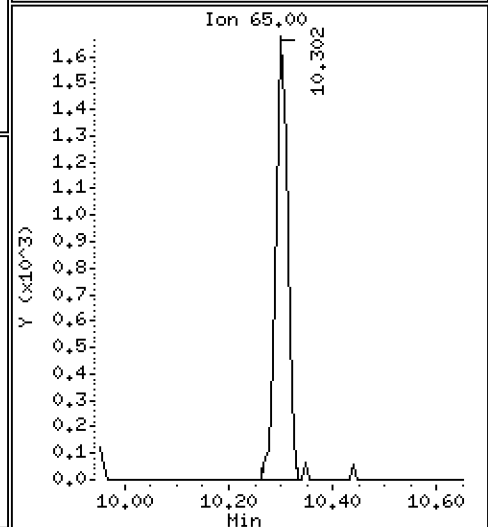
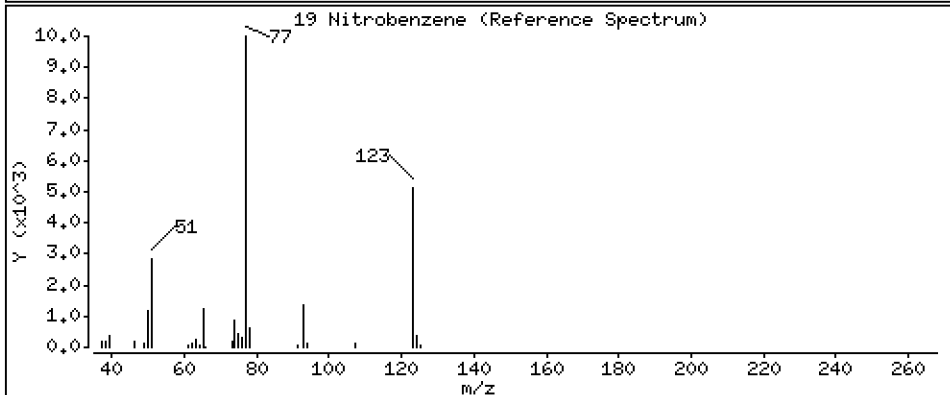
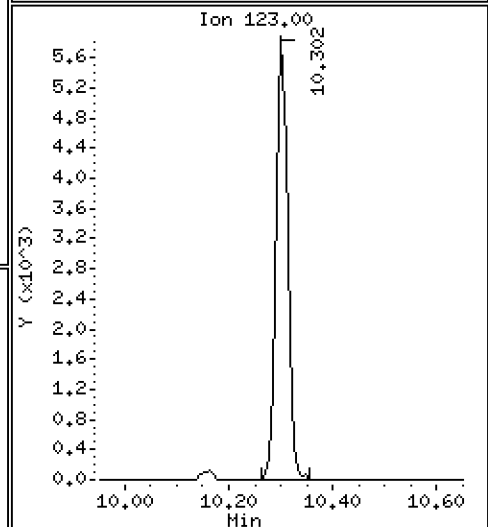
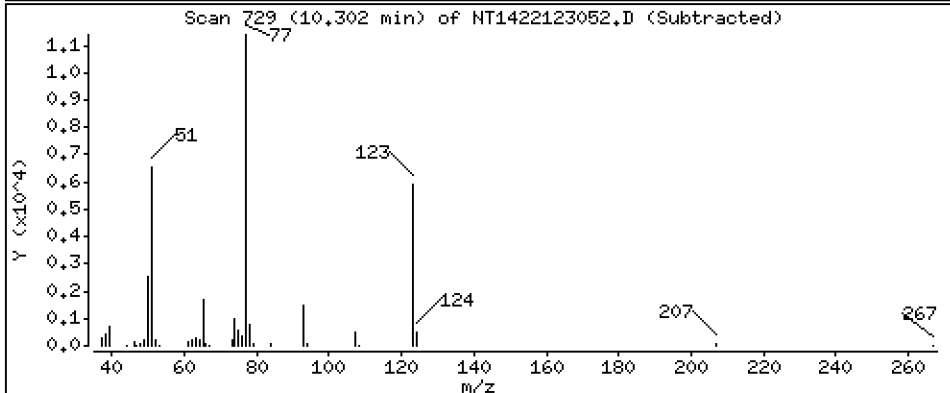
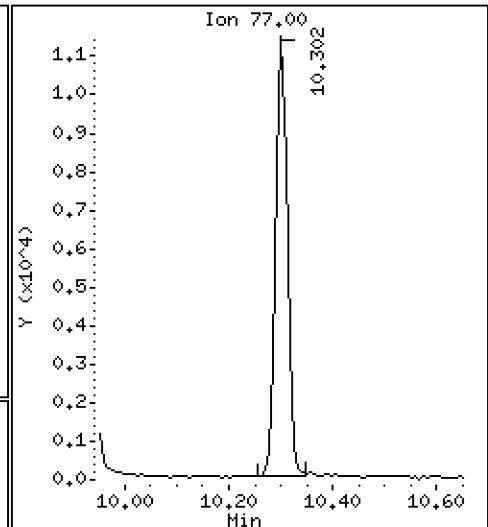
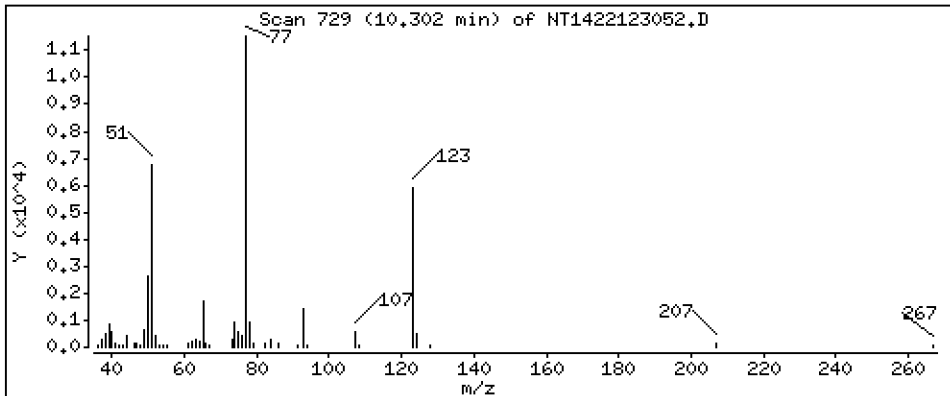
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4641 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

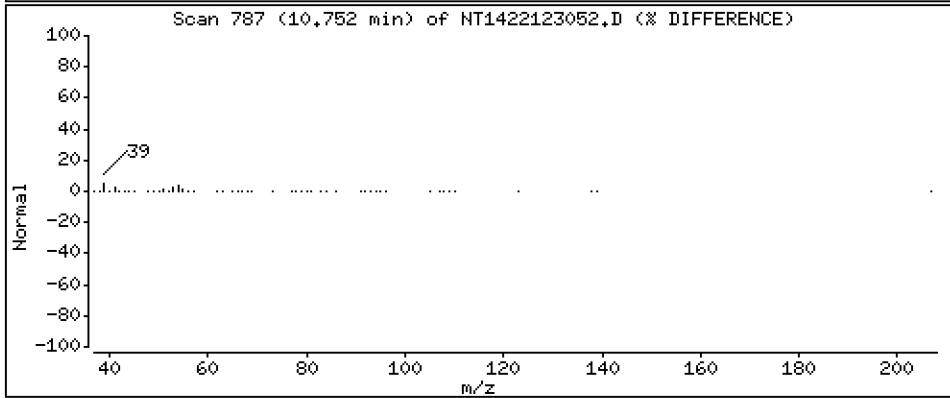
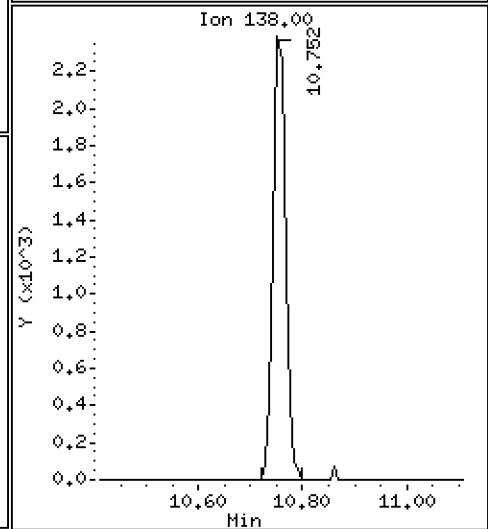
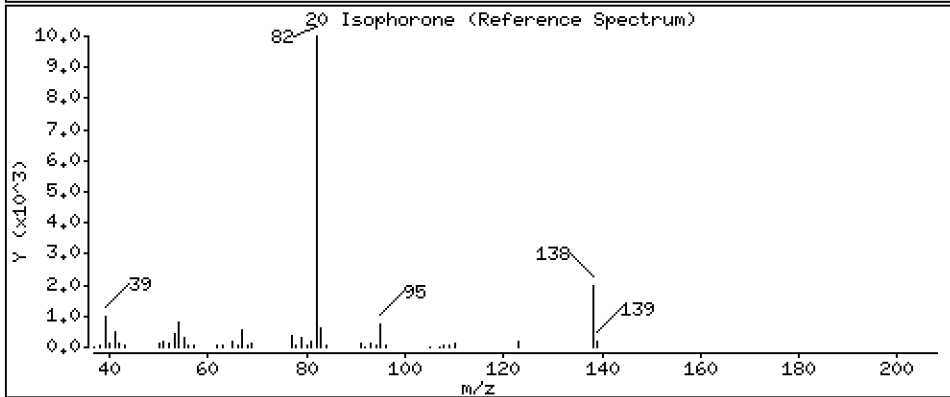
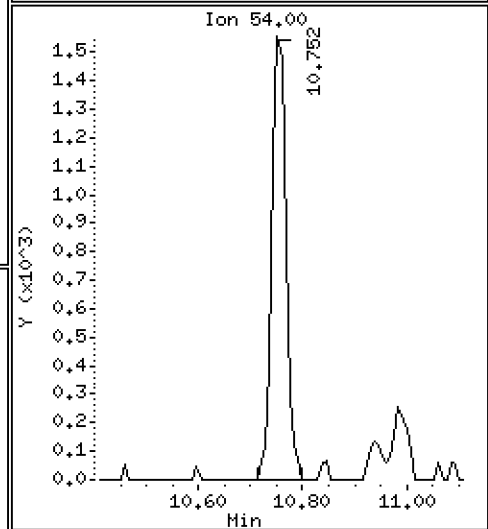
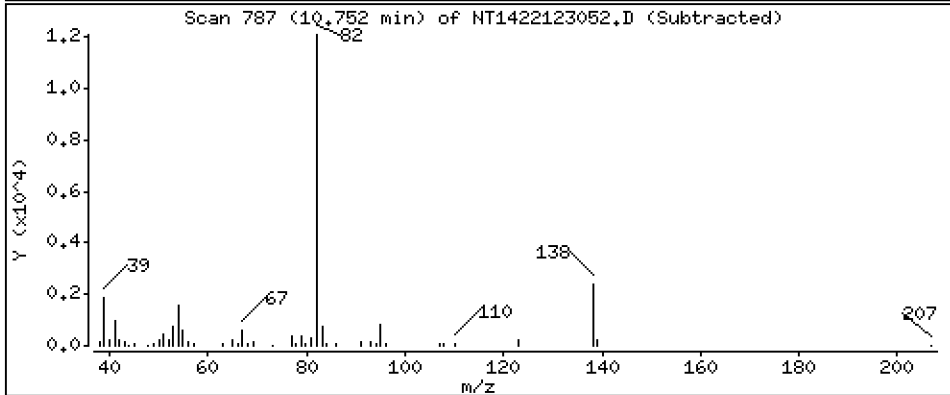
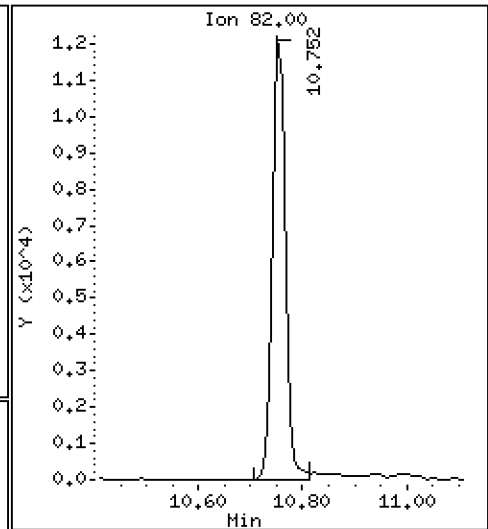
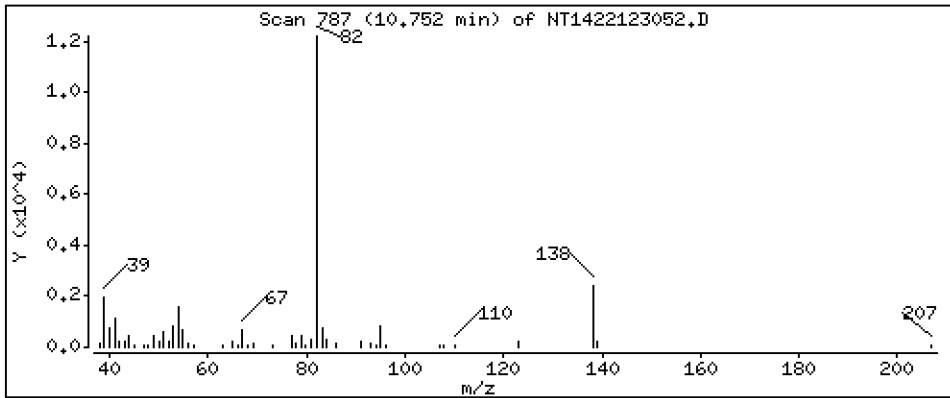
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.4317 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

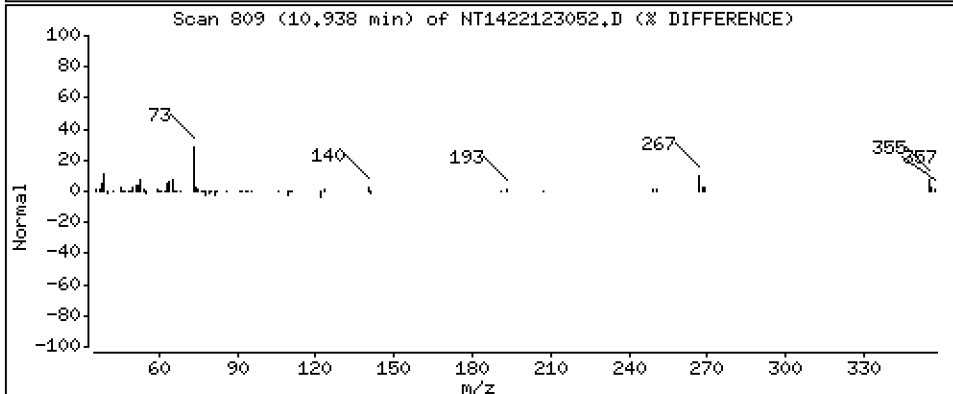
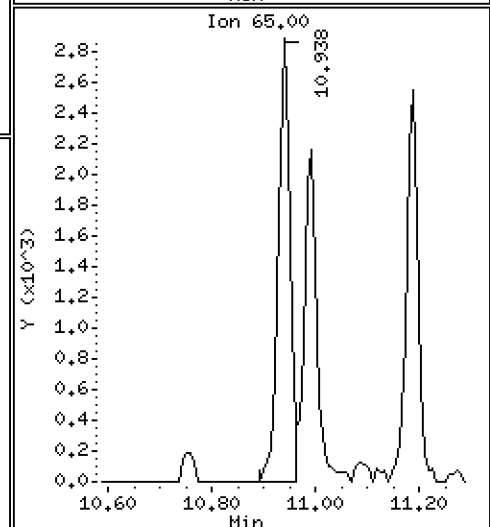
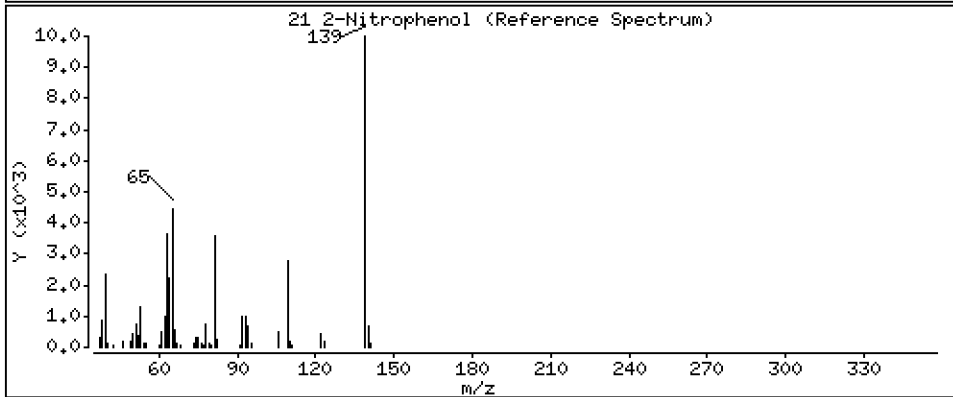
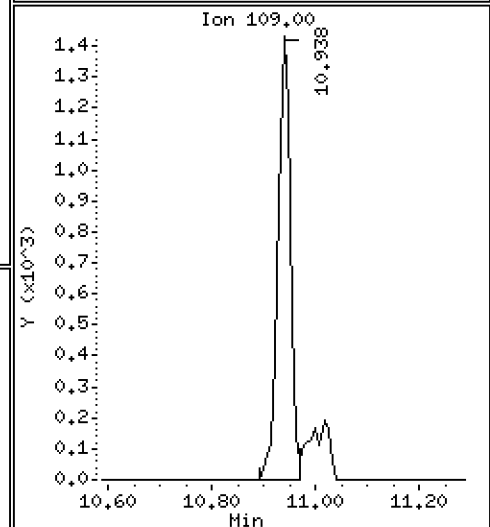
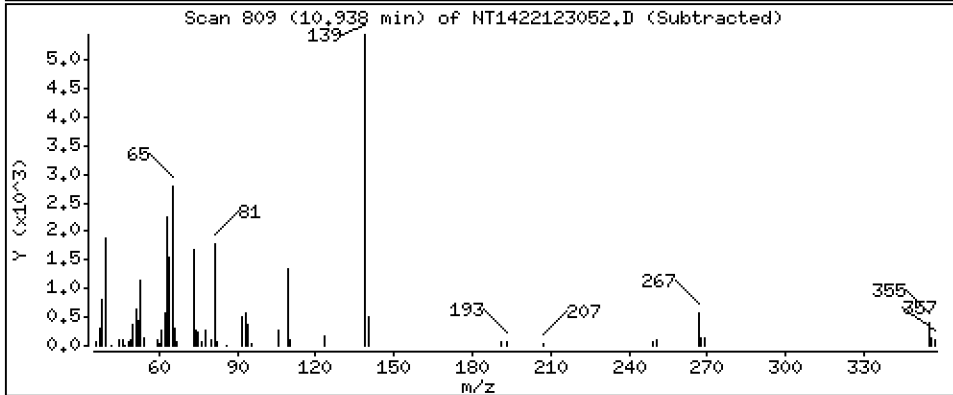
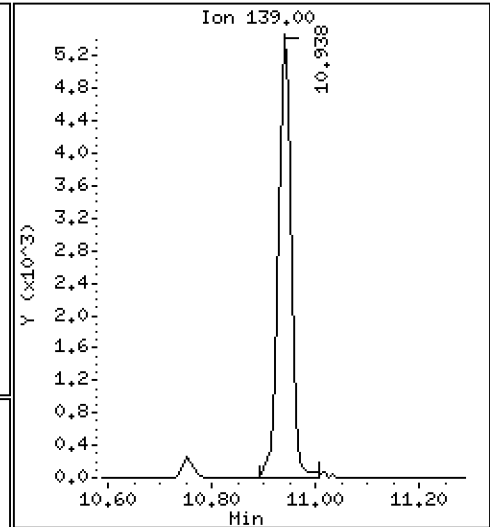
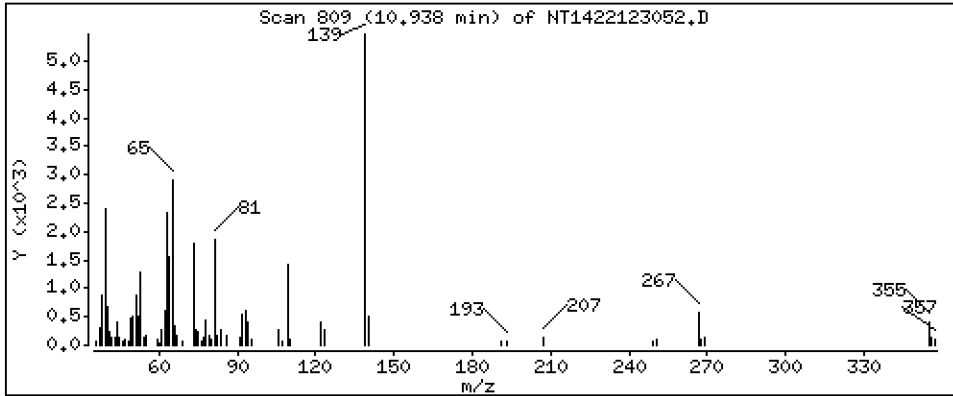
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4561 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

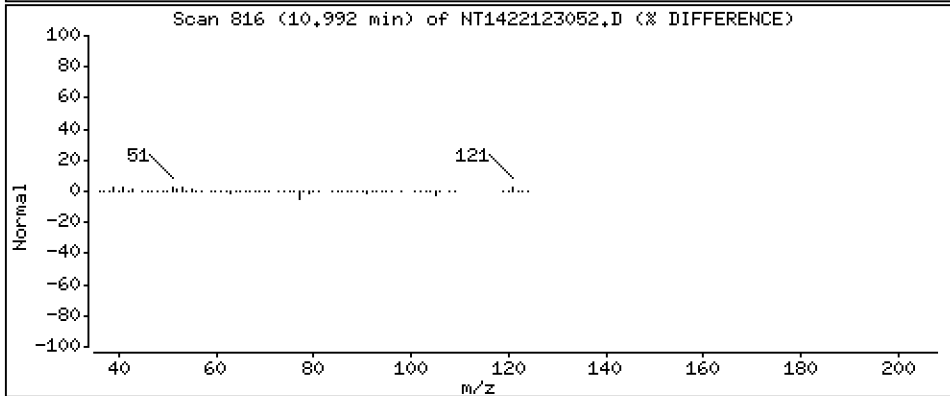
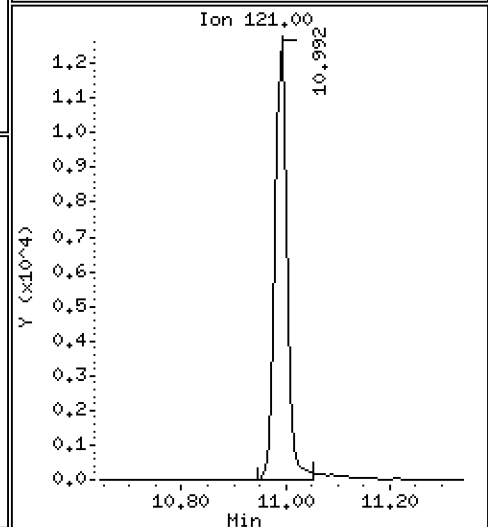
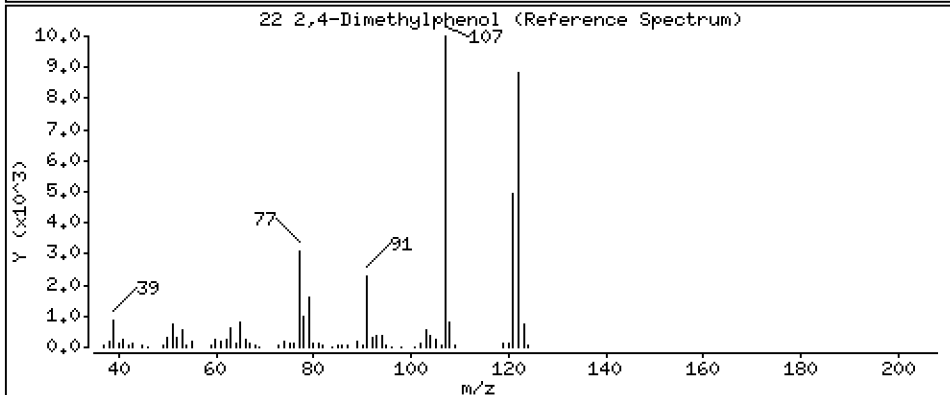
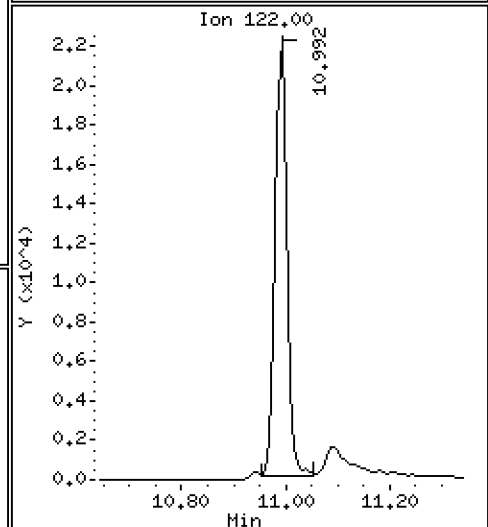
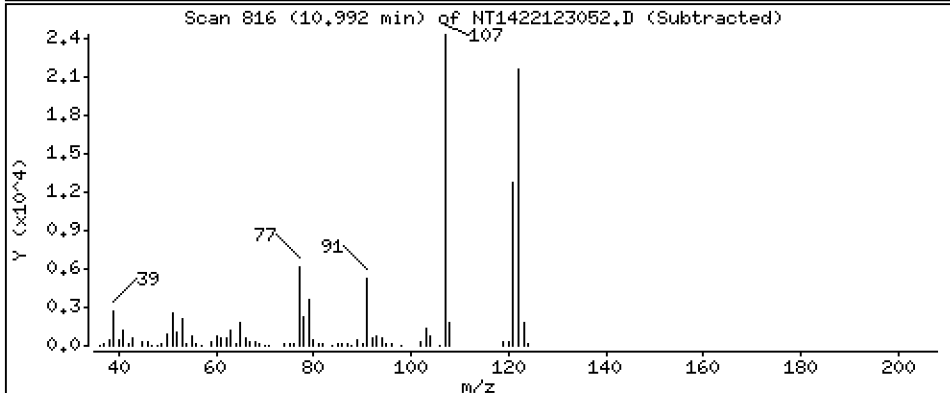
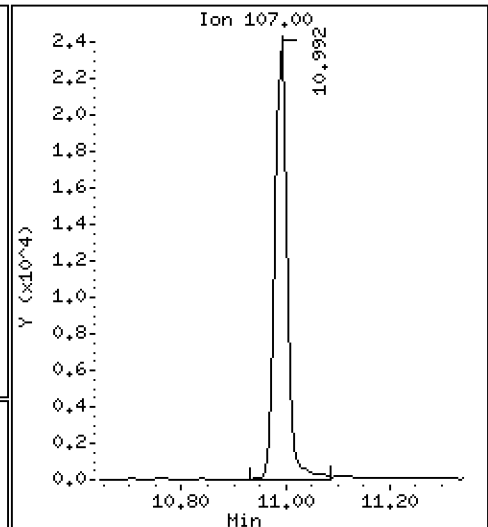
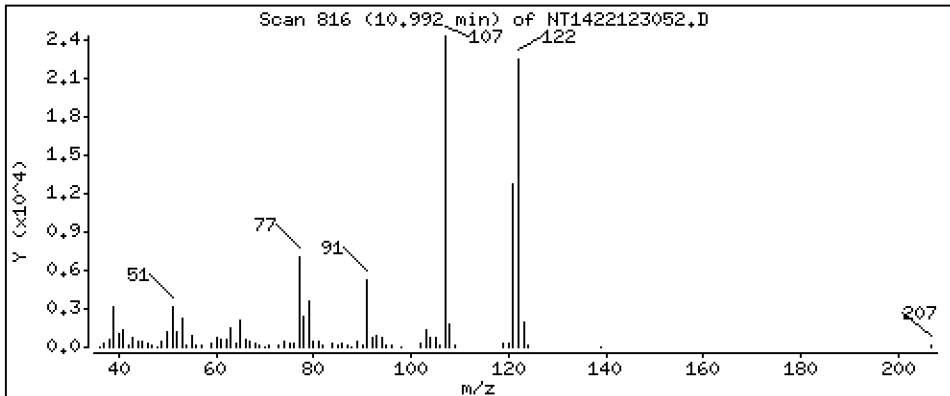
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,9882 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

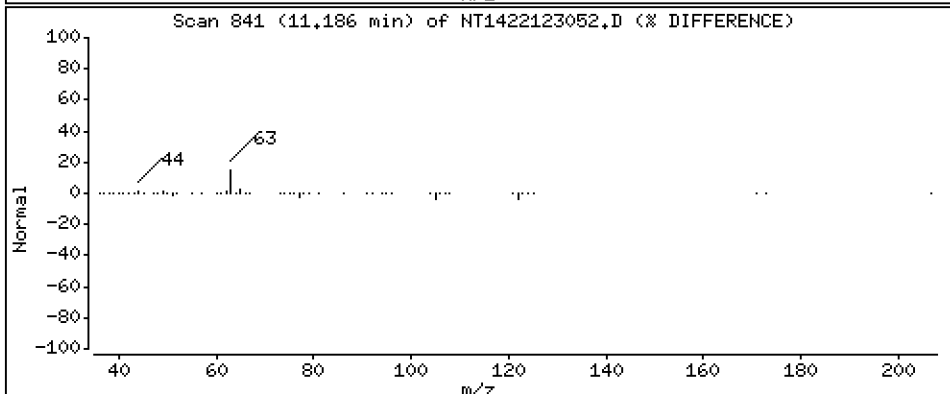
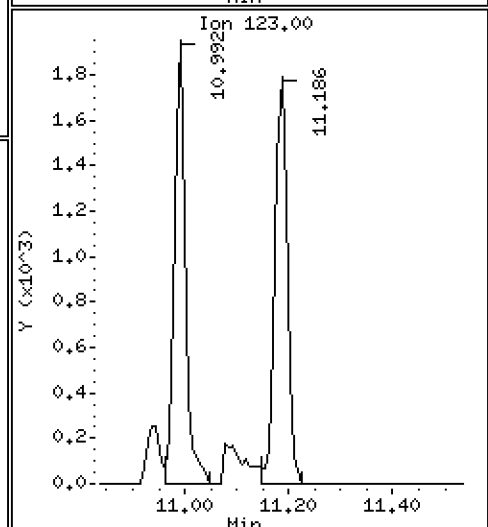
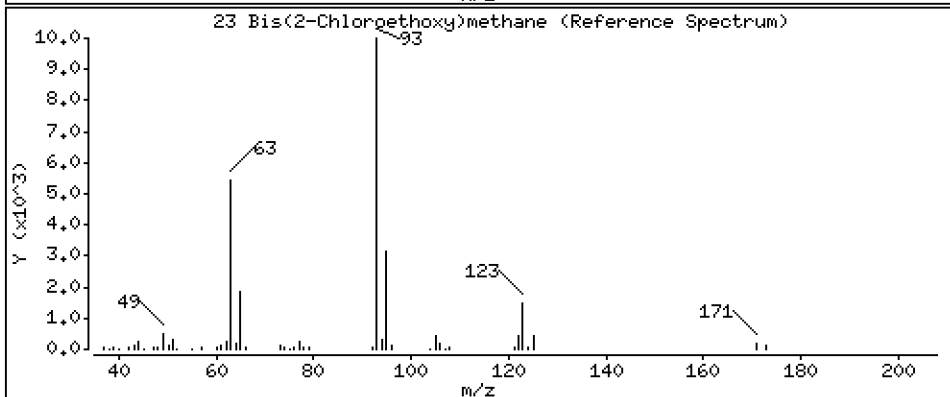
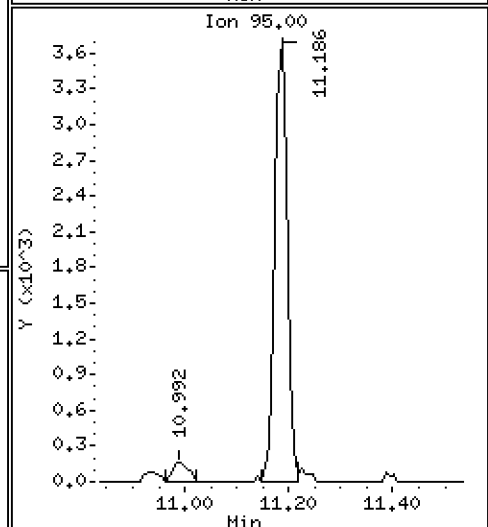
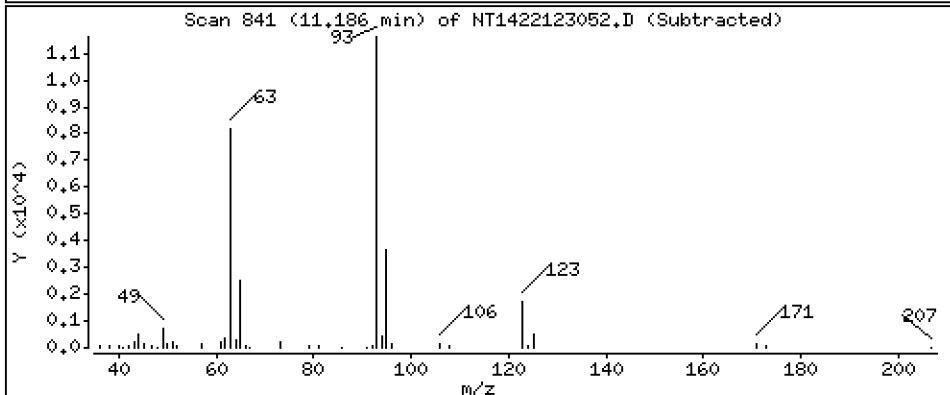
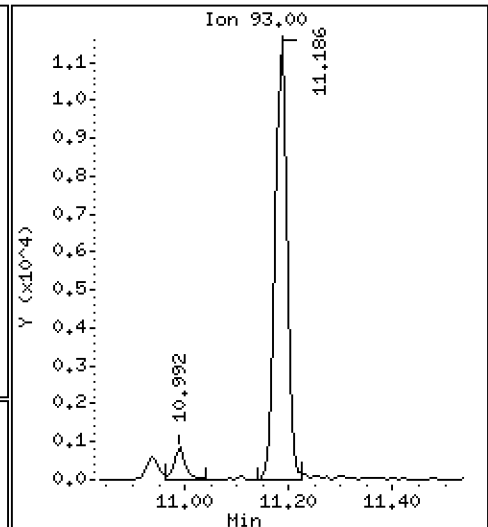
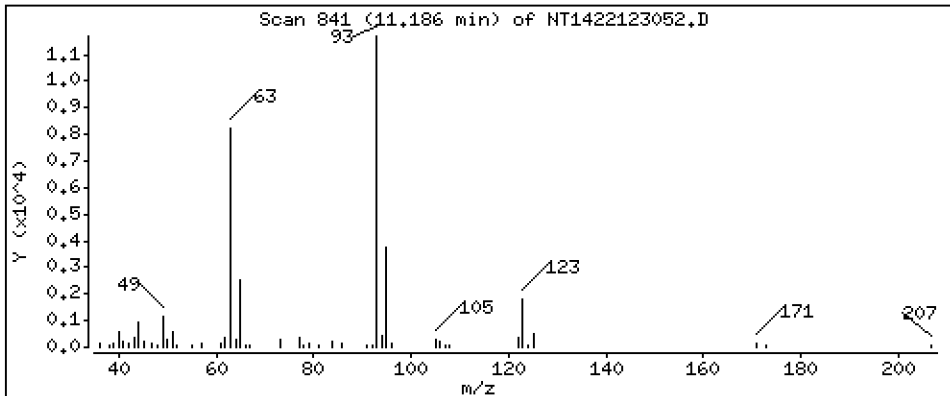
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,4840 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

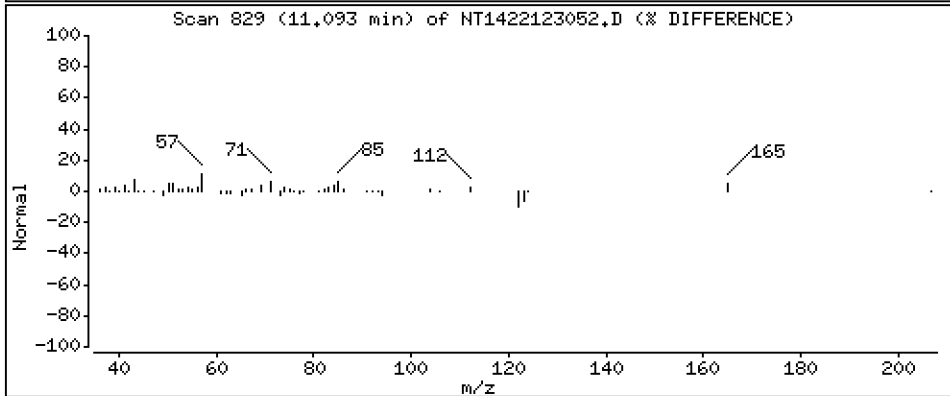
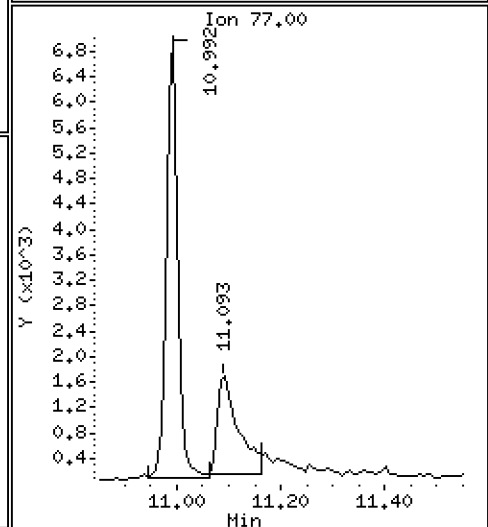
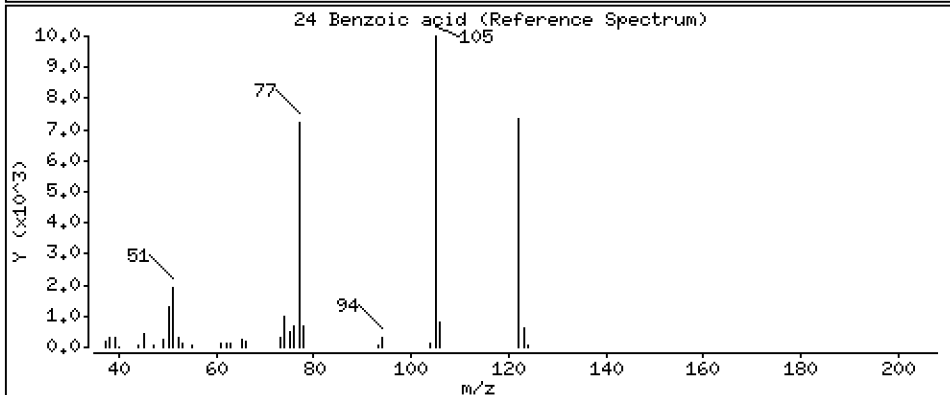
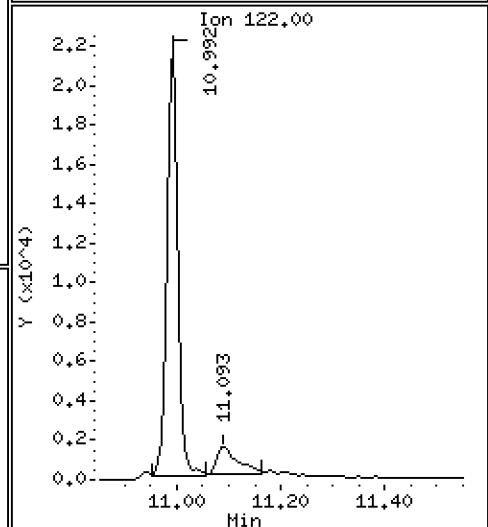
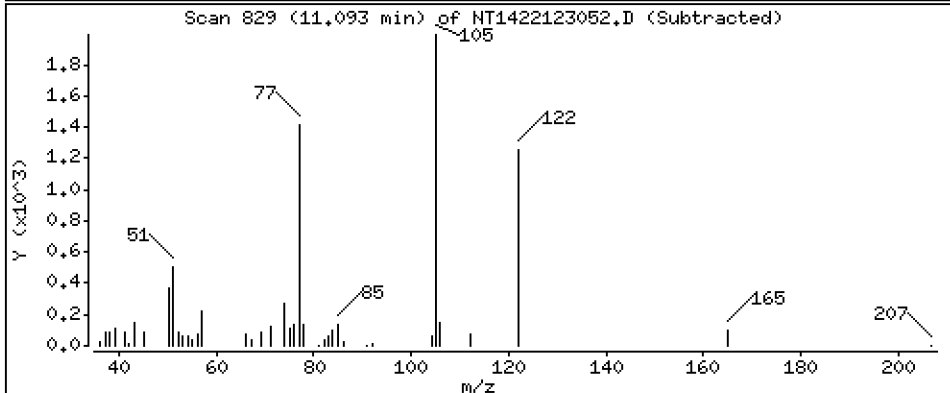
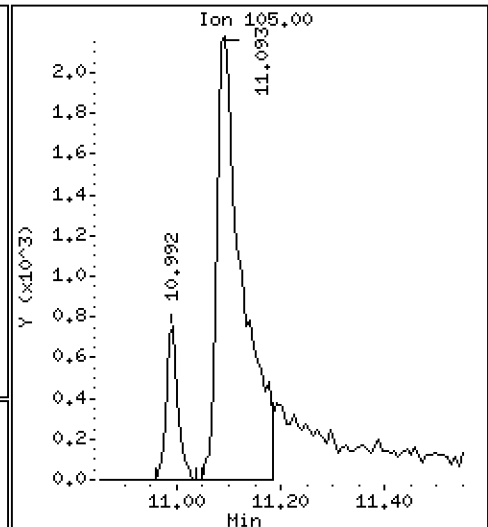
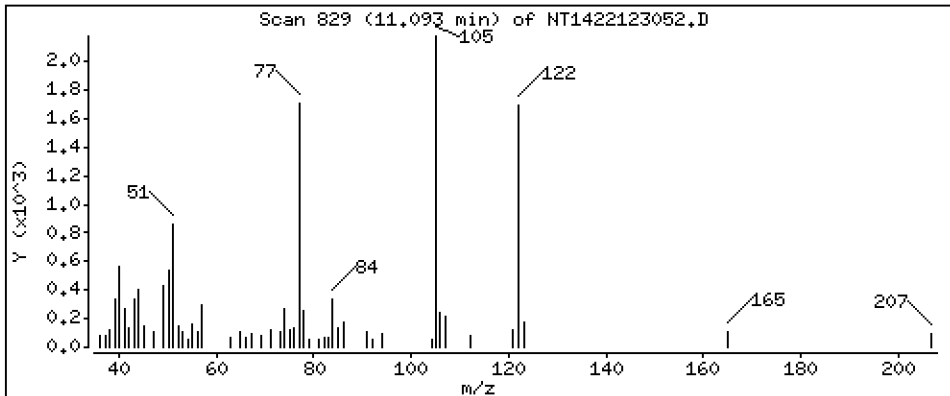
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.3306 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

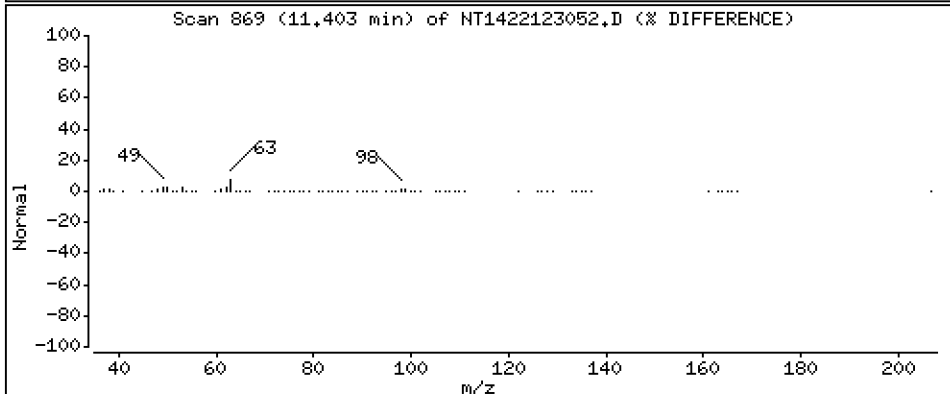
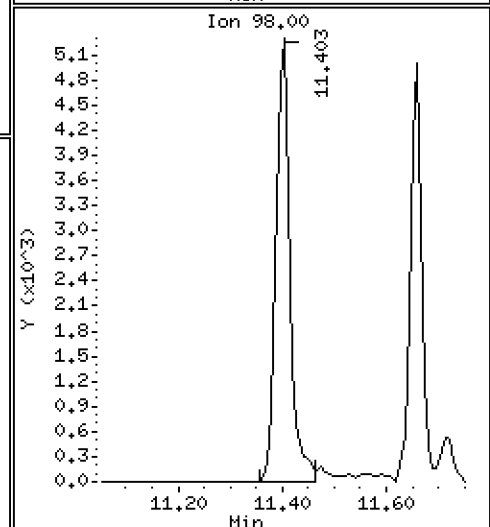
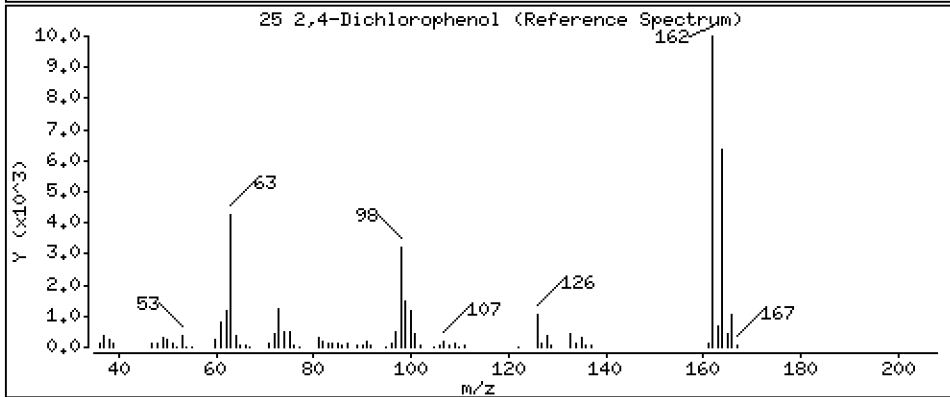
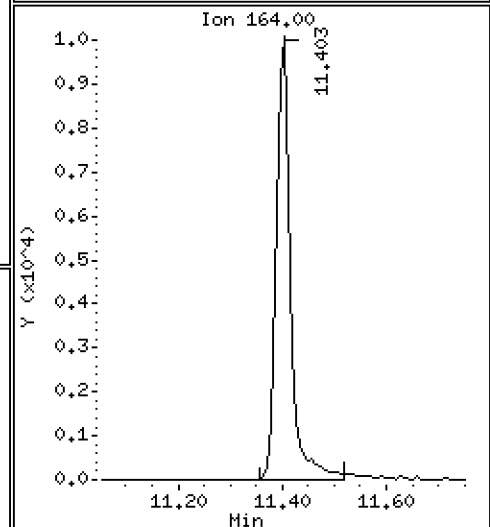
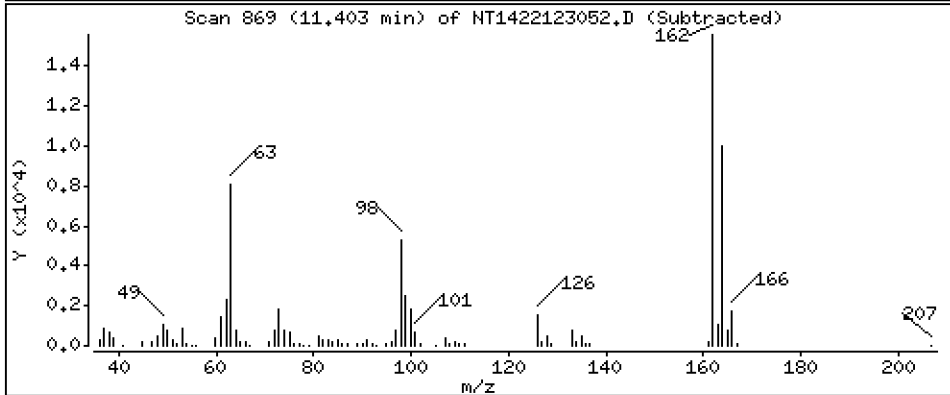
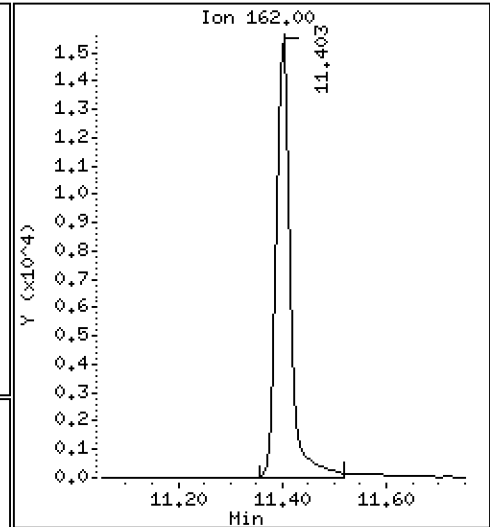
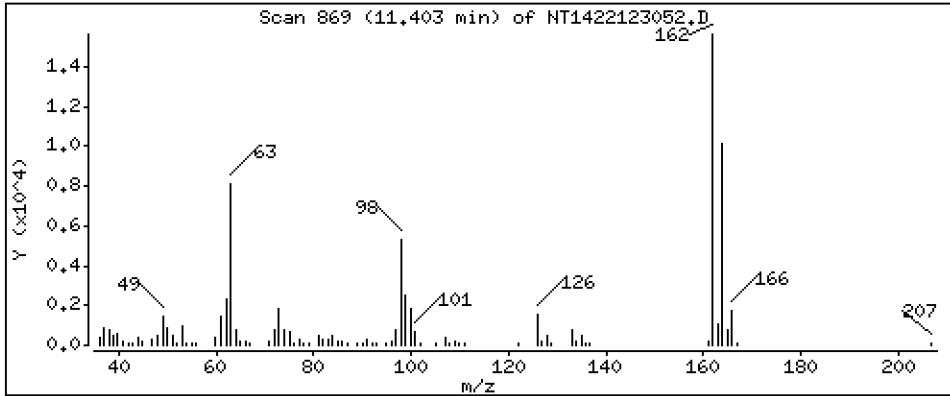
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,9922 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

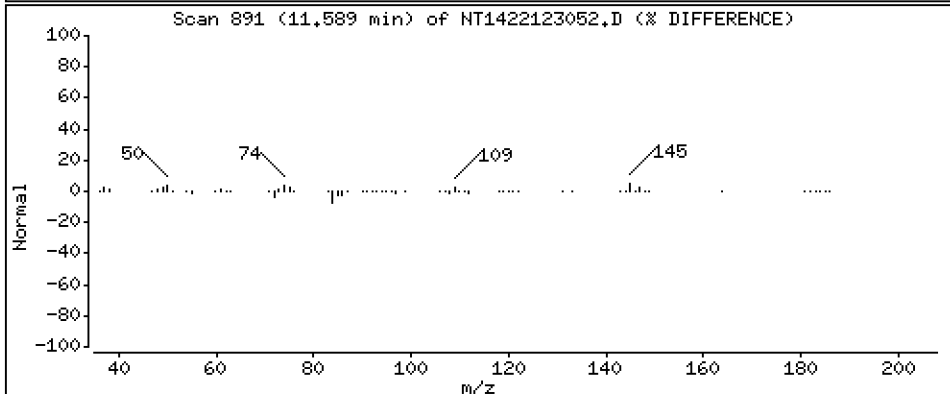
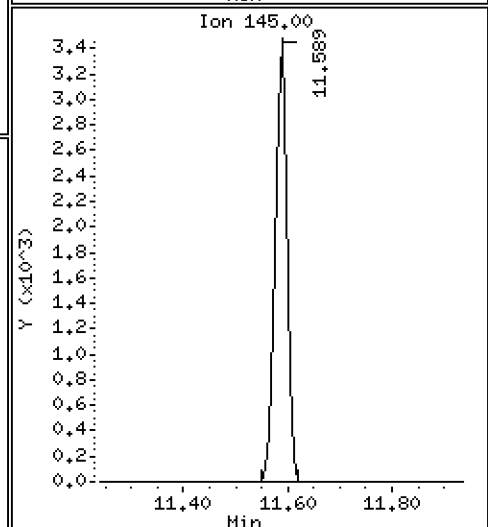
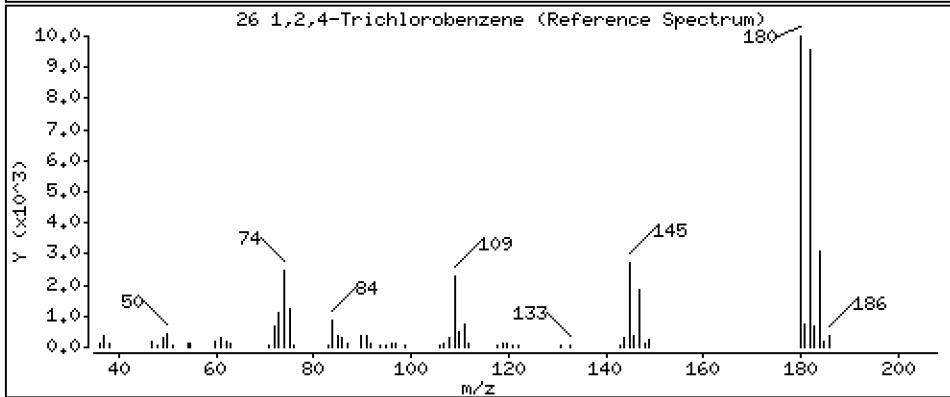
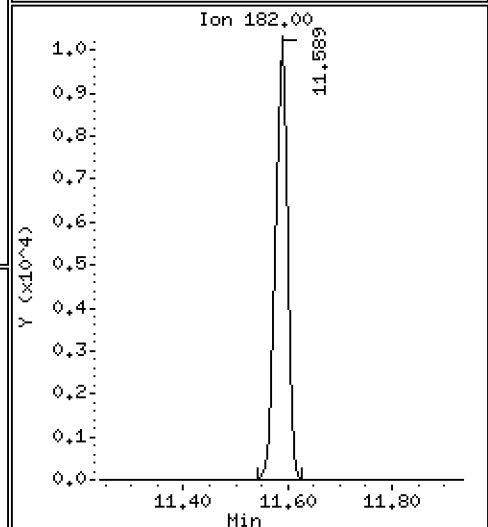
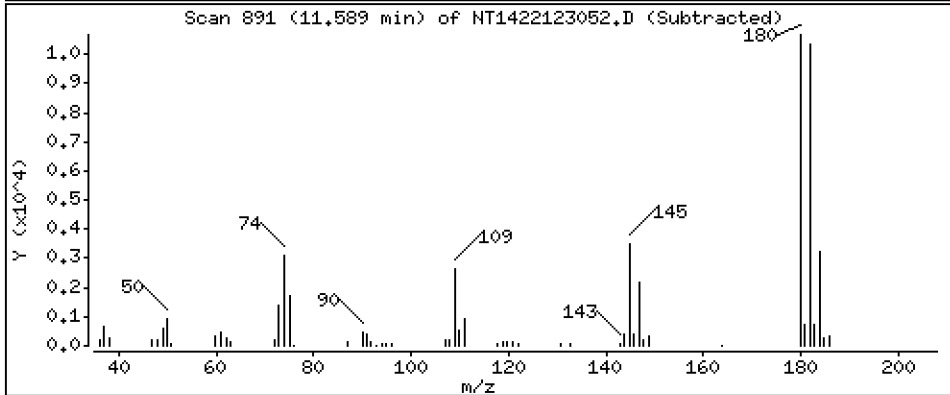
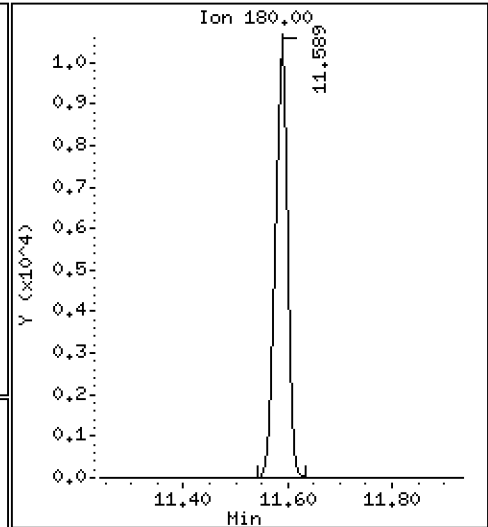
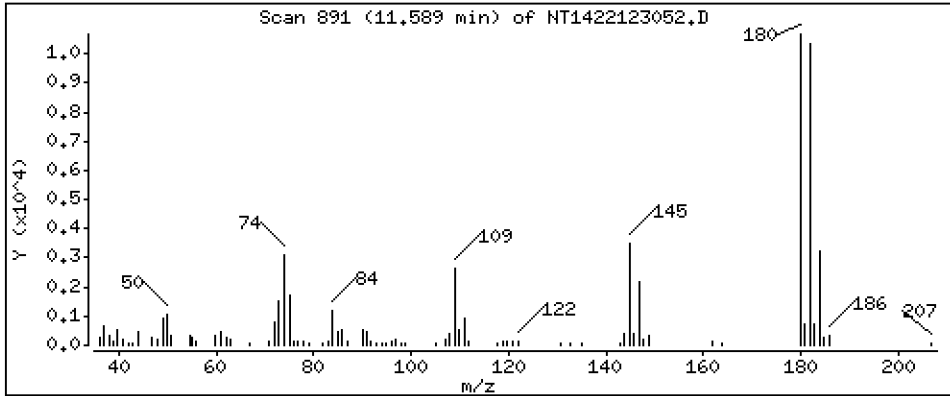
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4816 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

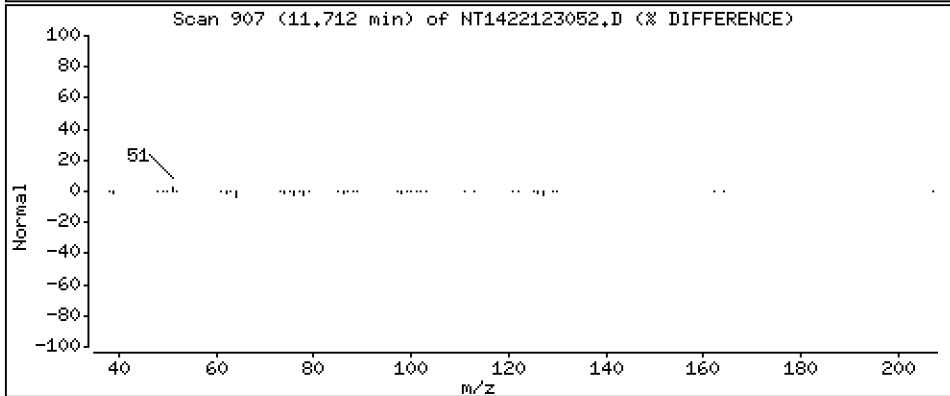
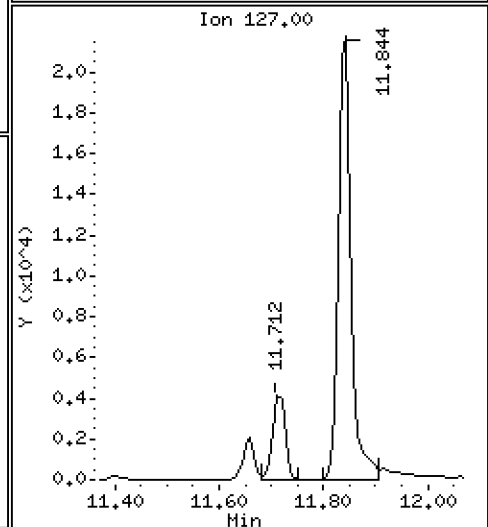
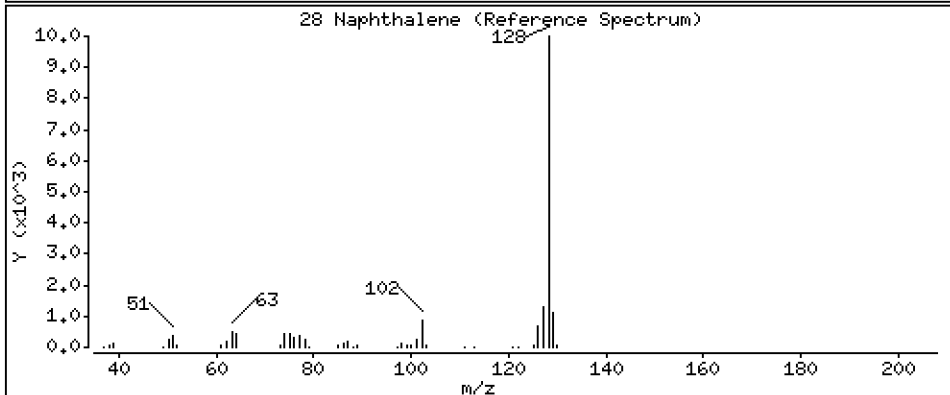
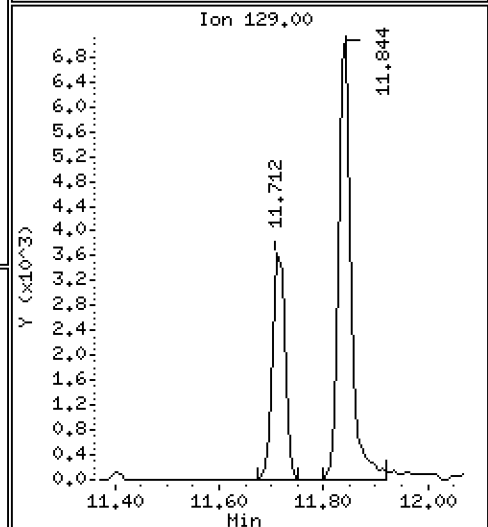
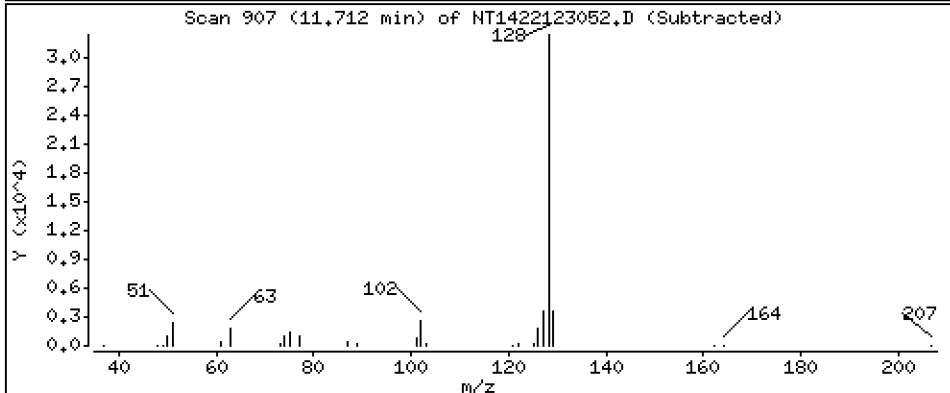
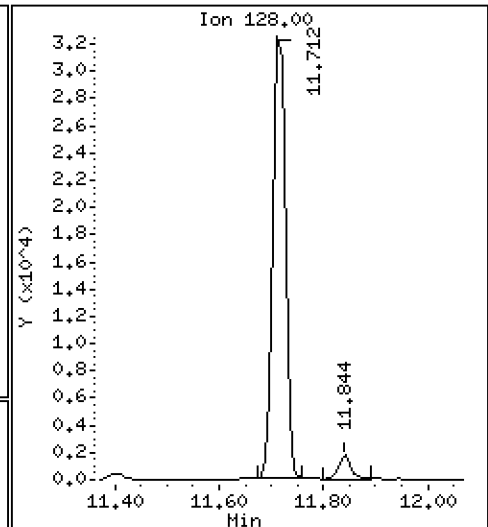
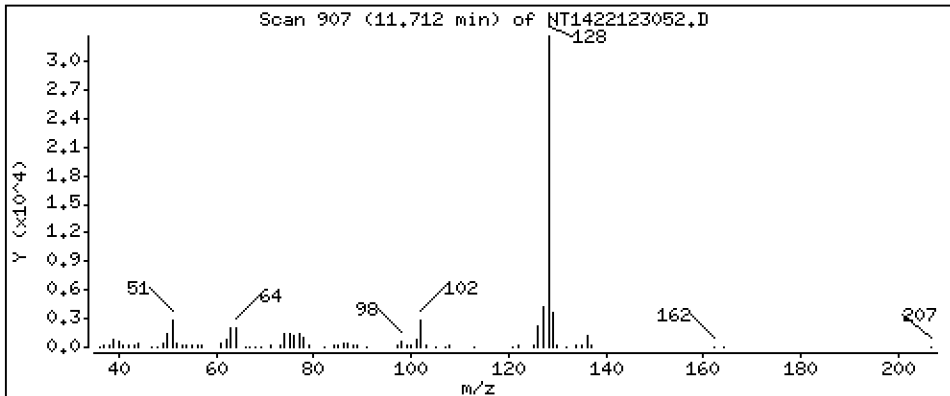
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,4844 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

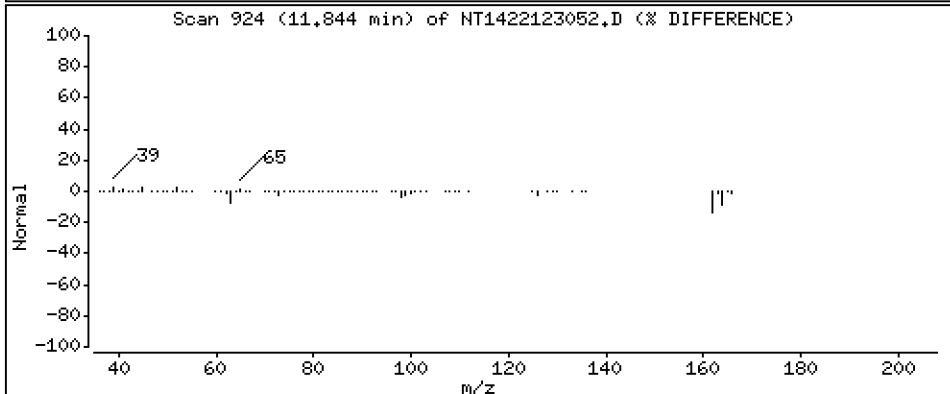
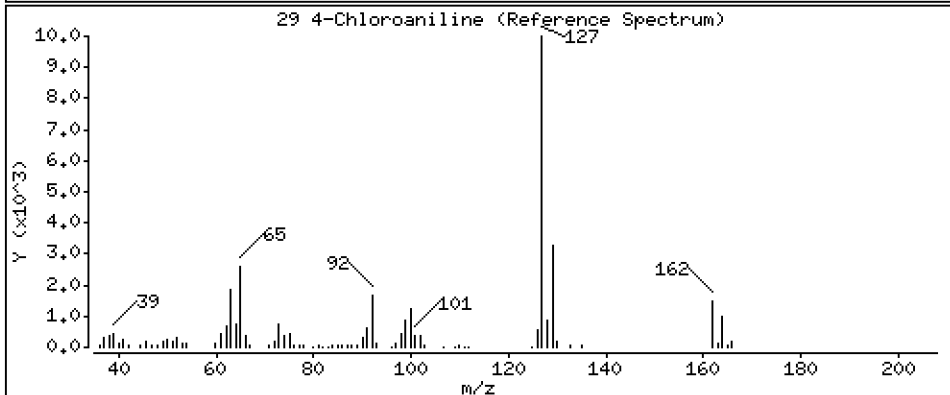
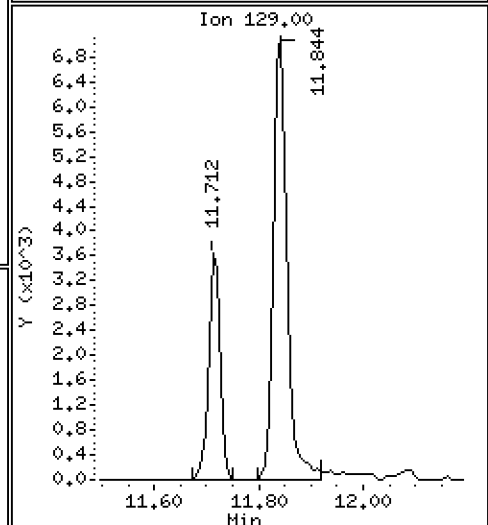
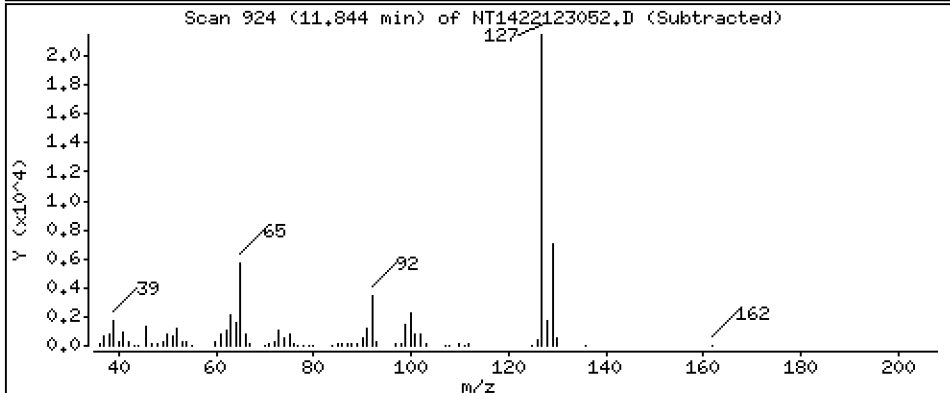
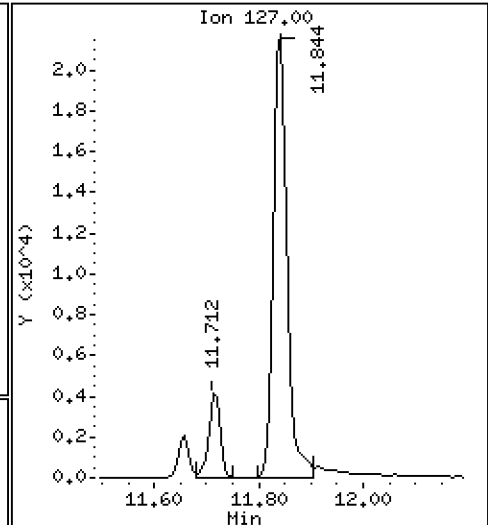
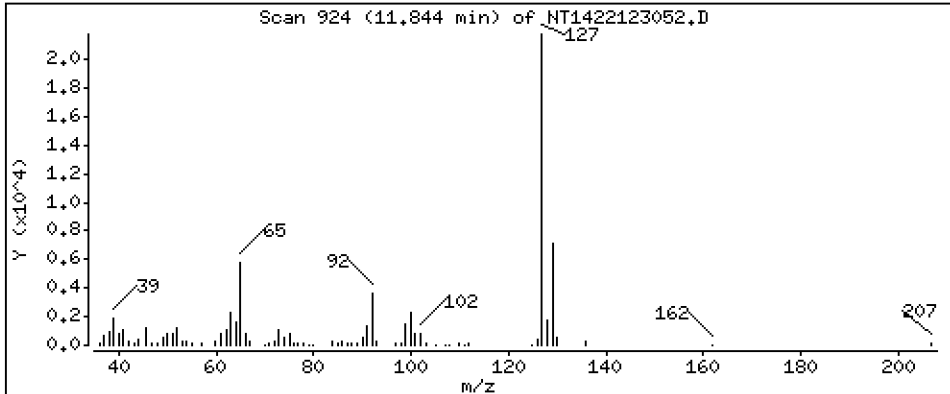
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8698 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

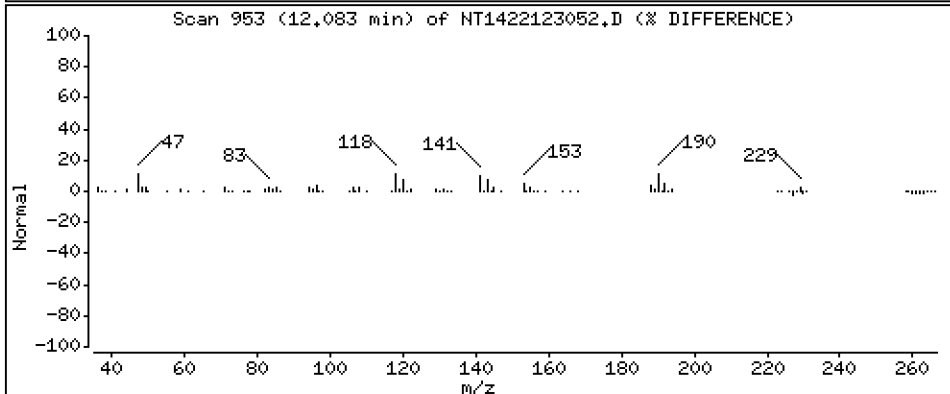
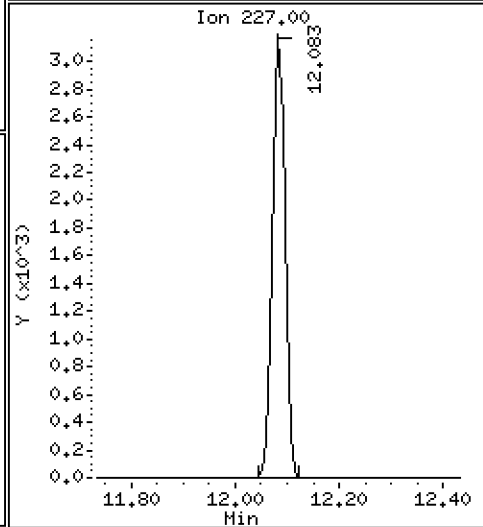
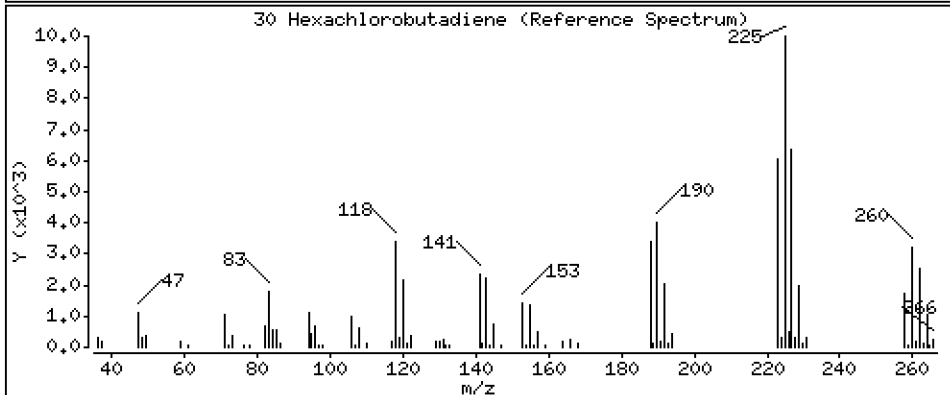
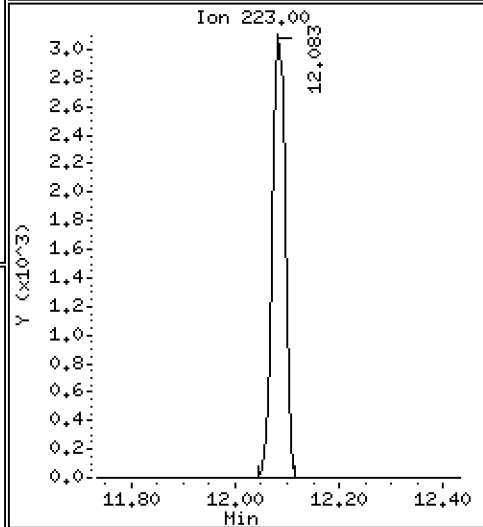
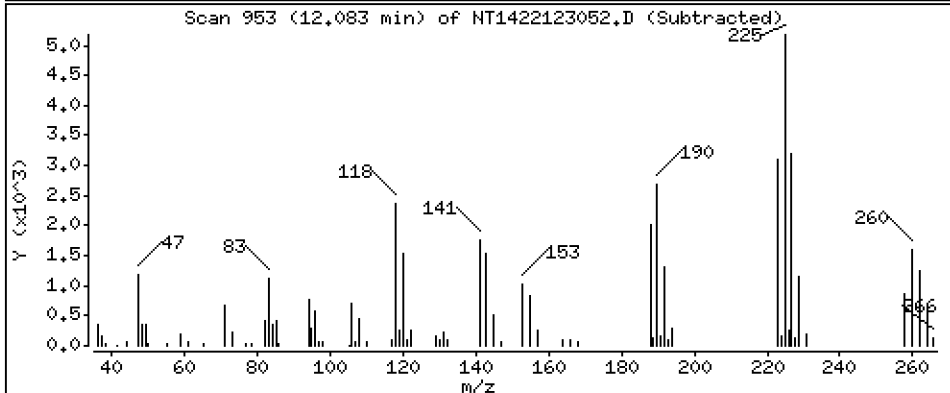
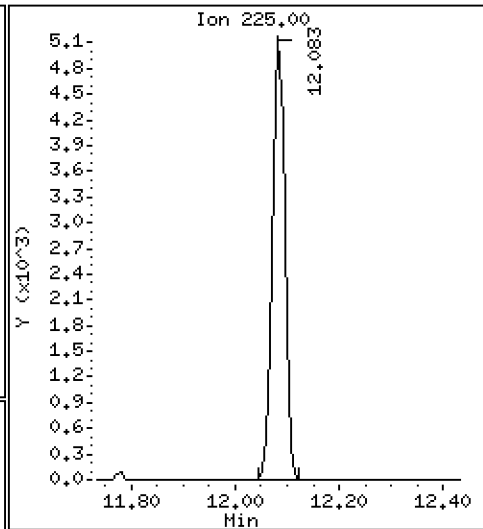
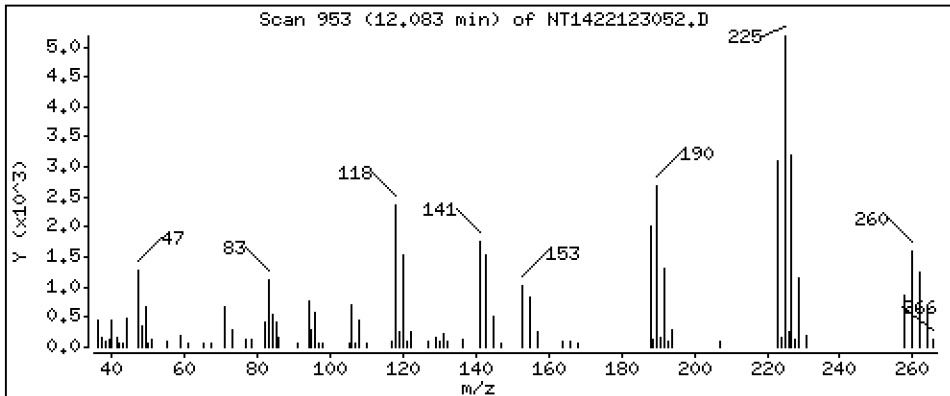
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4710 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

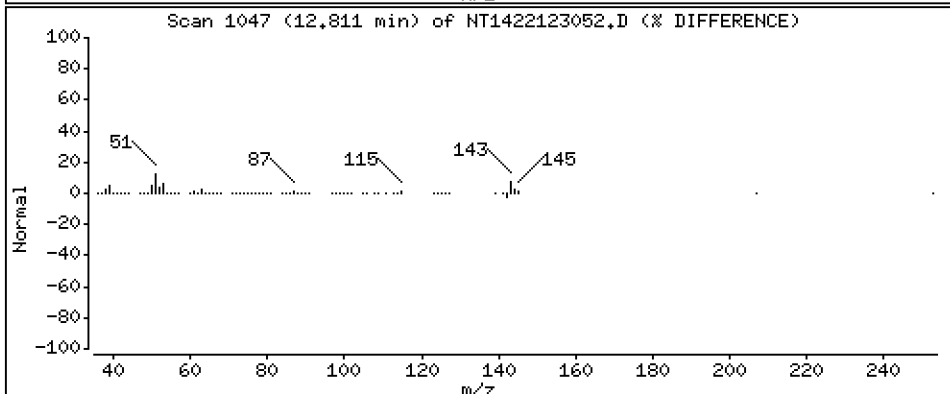
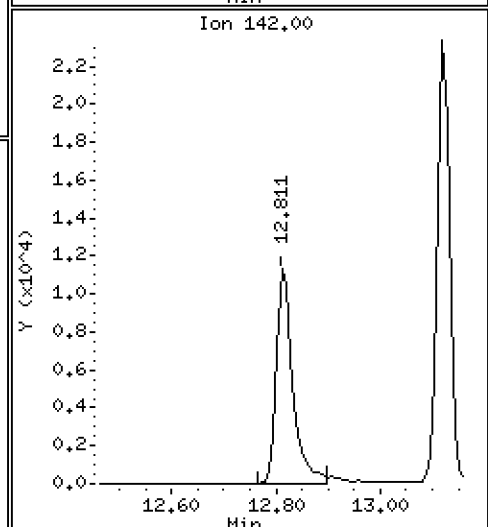
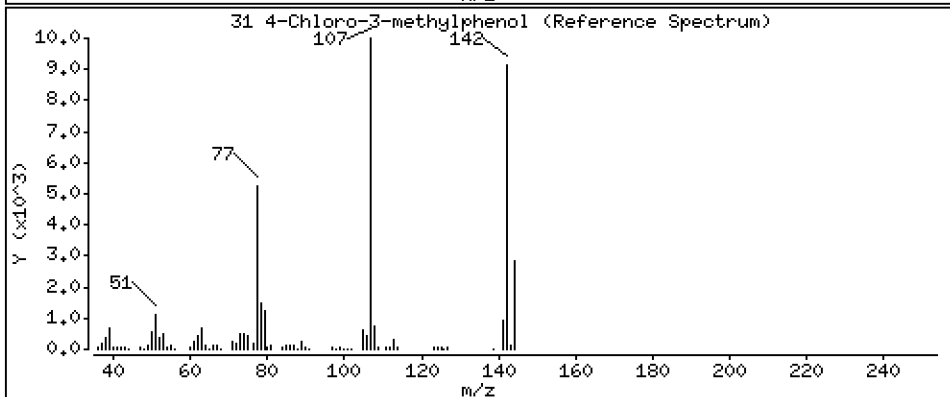
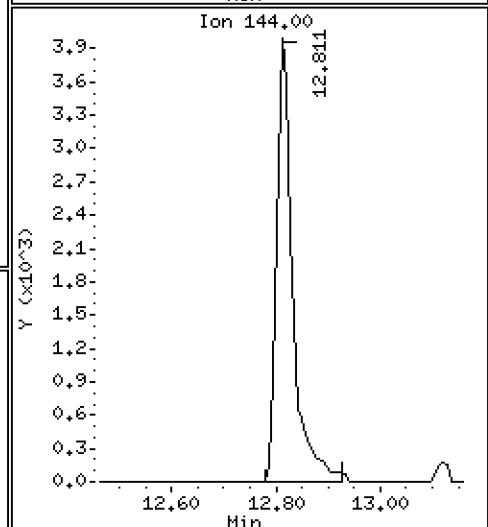
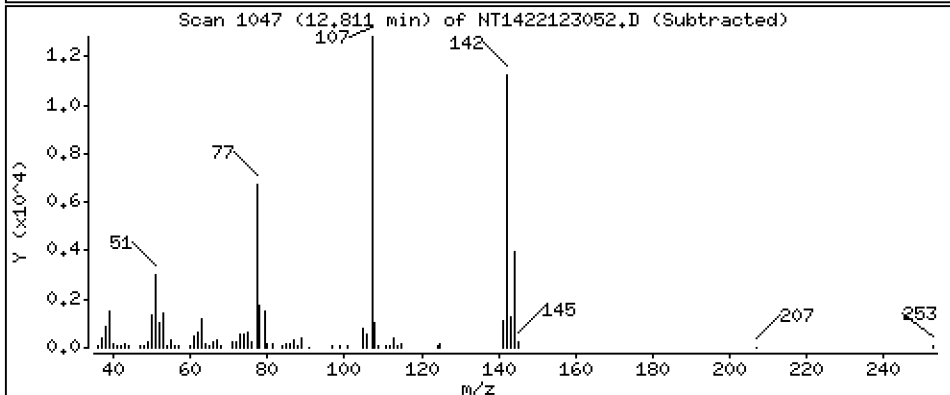
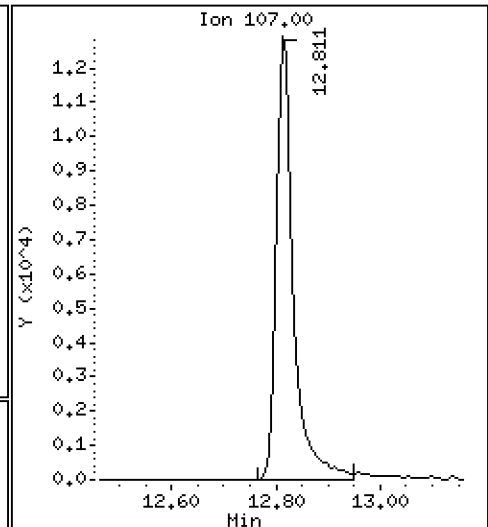
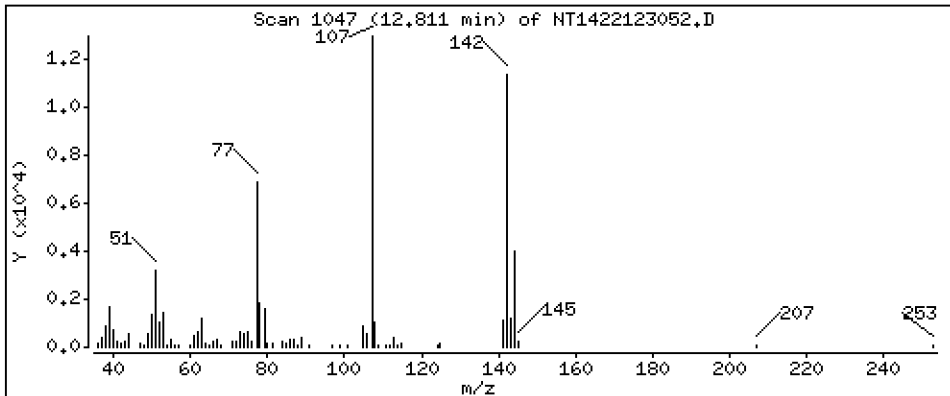
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9524 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

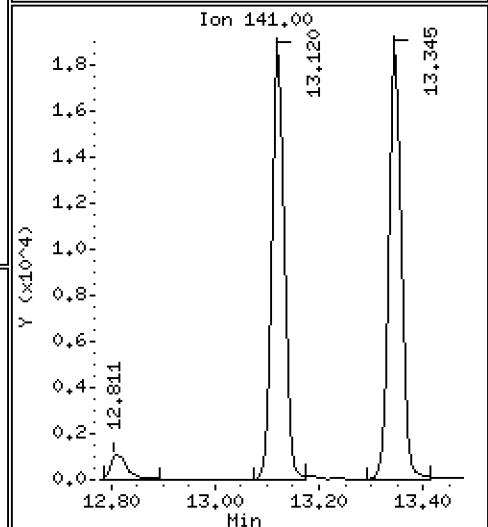
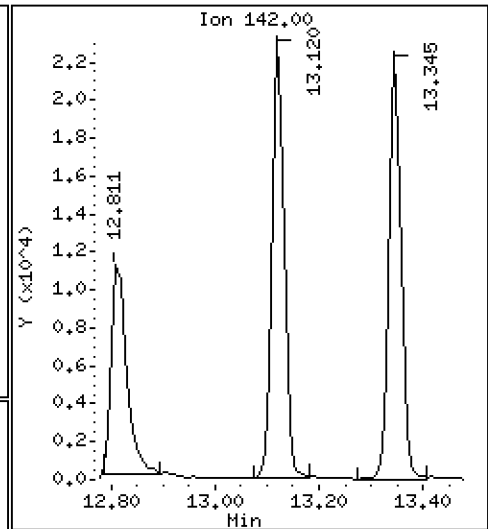
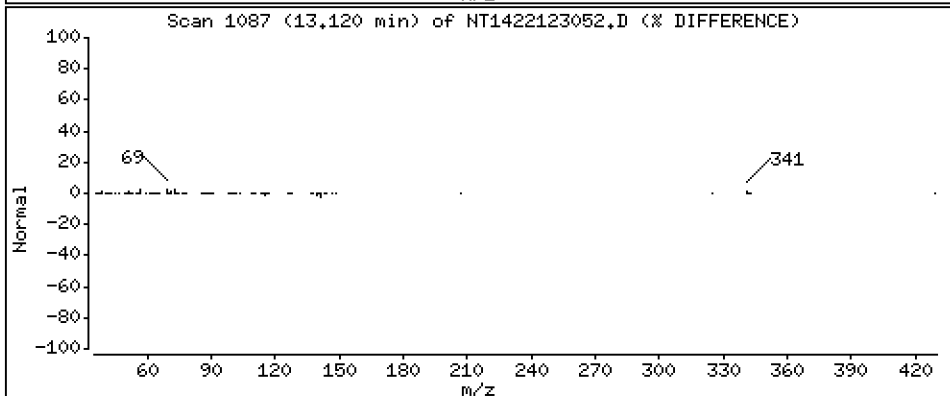
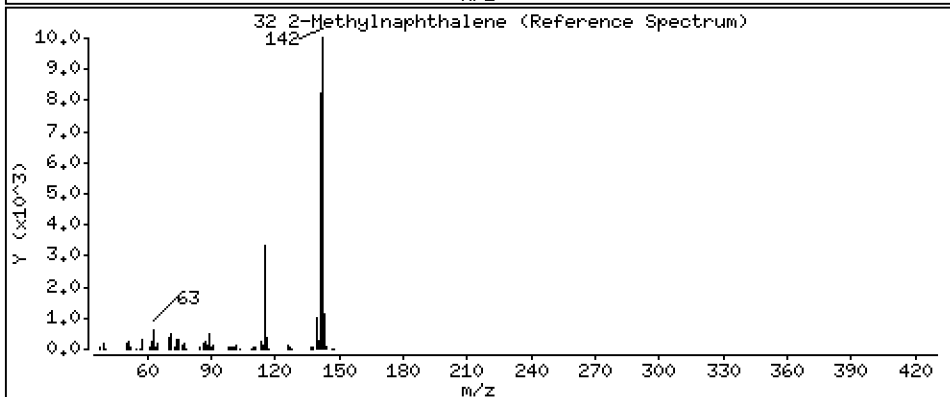
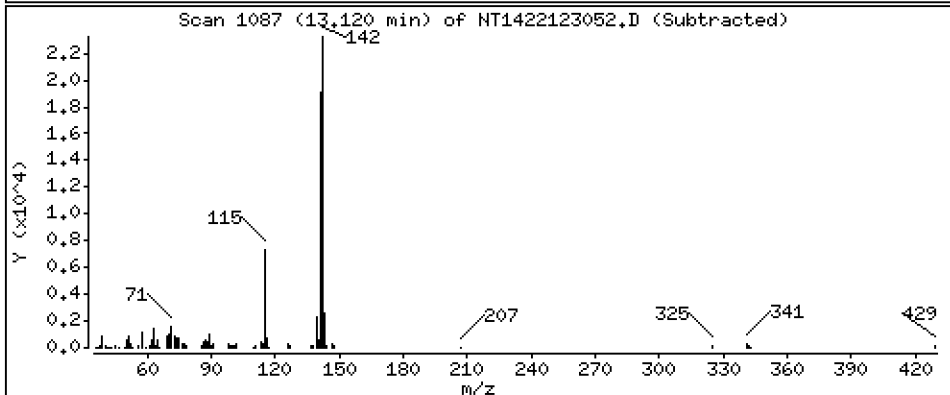
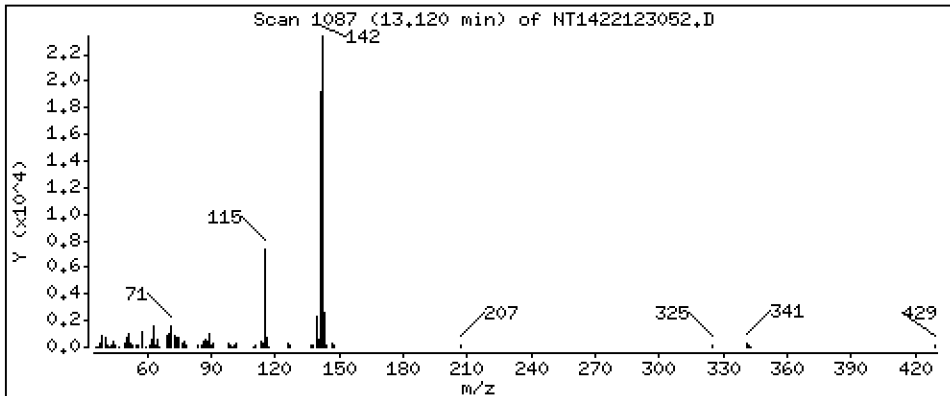
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4676 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

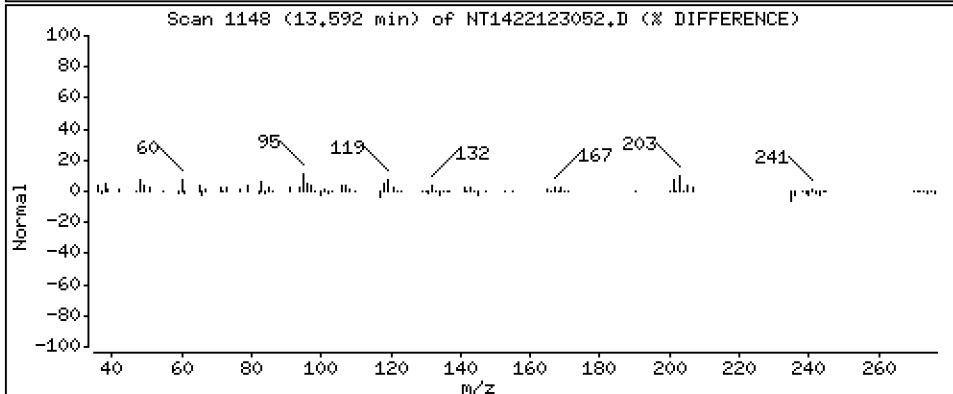
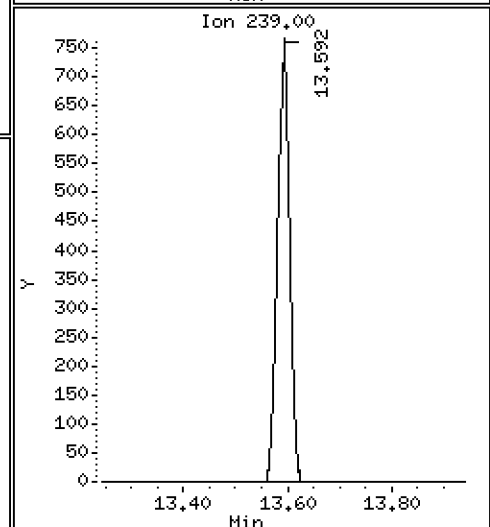
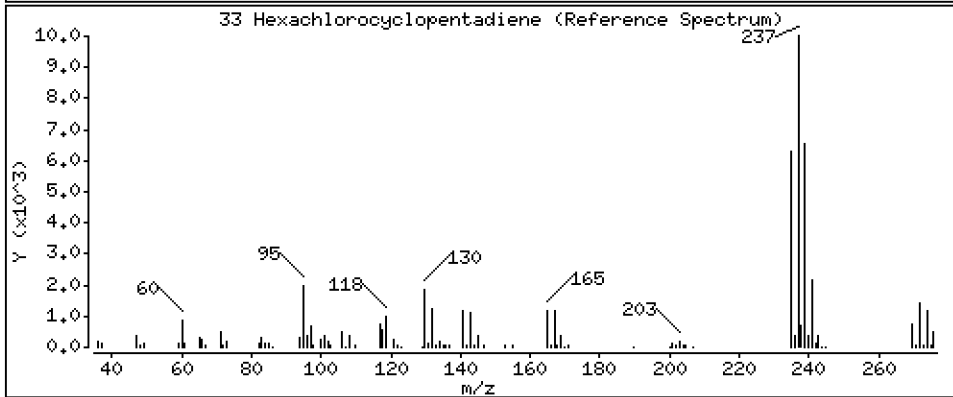
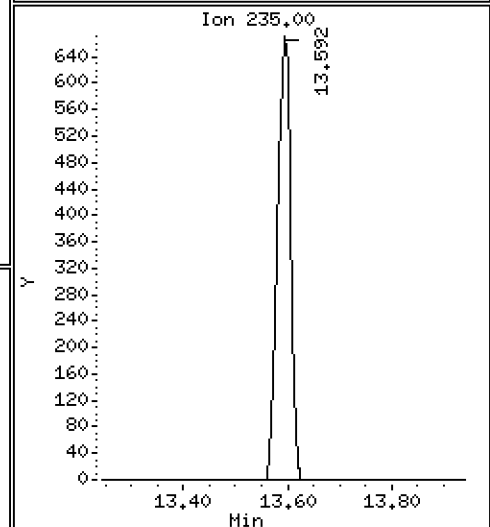
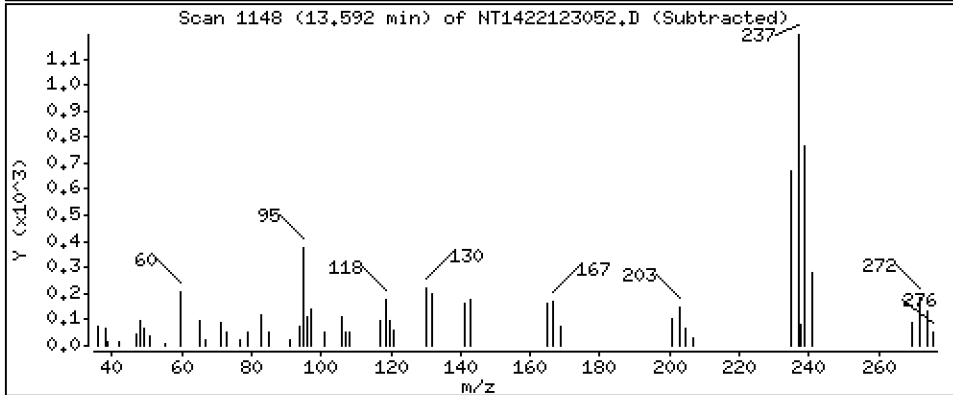
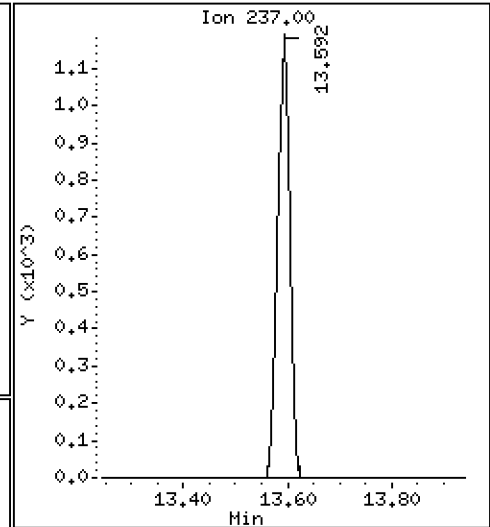
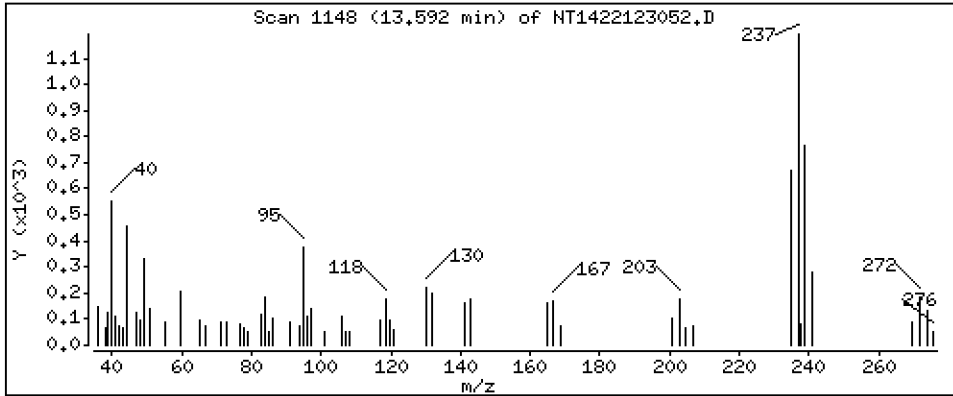
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,1074 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

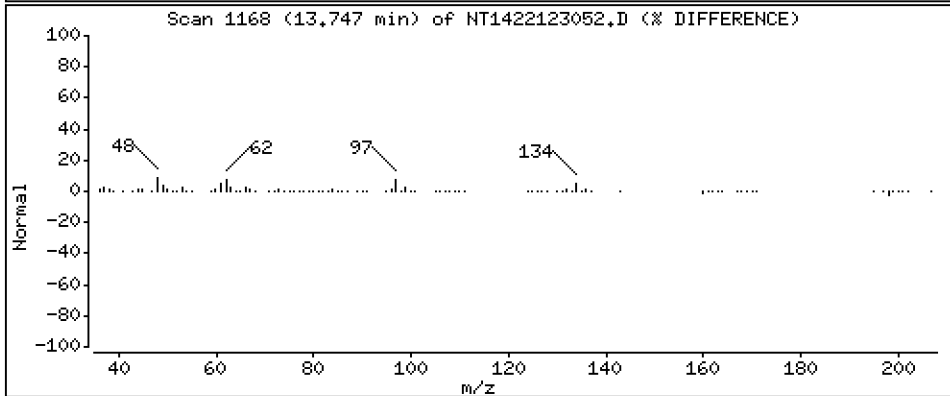
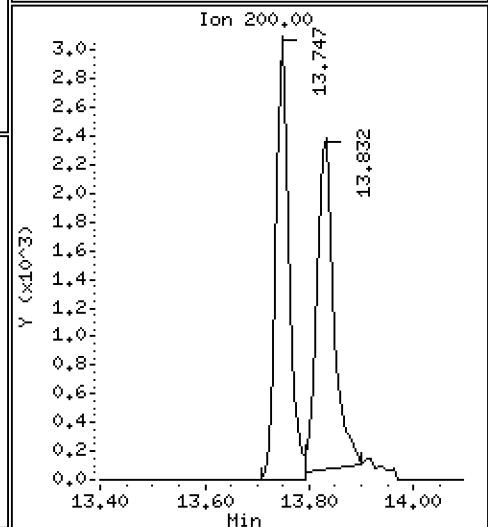
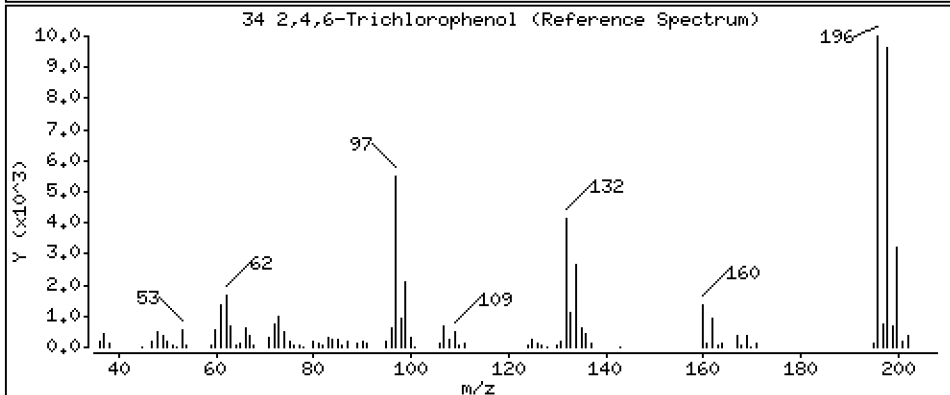
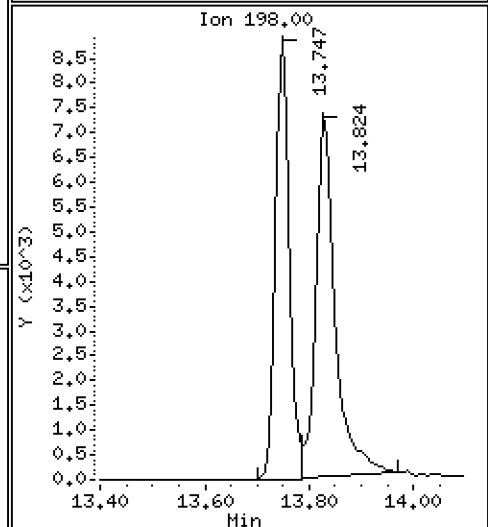
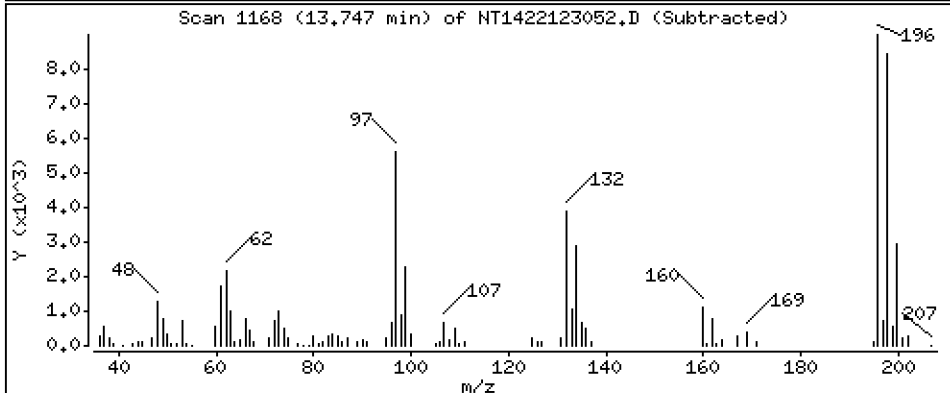
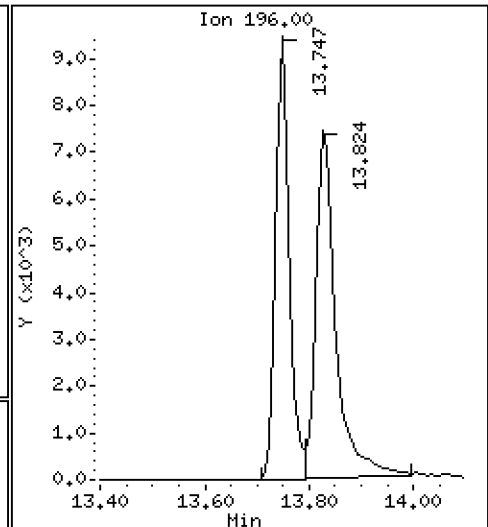
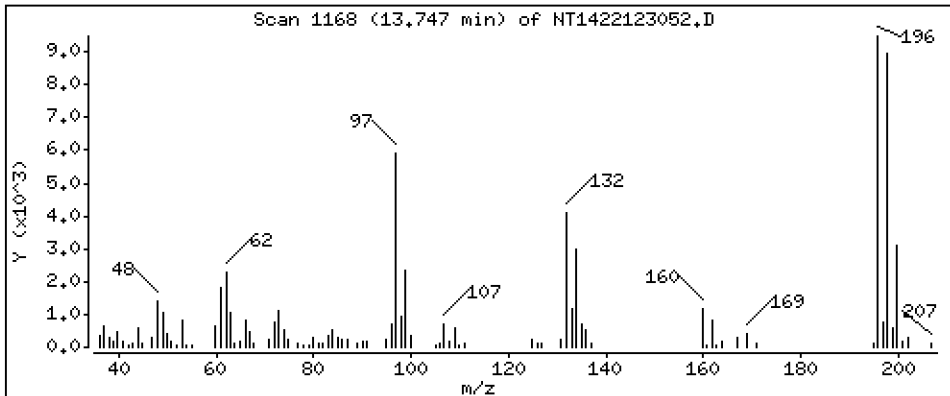
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8903 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

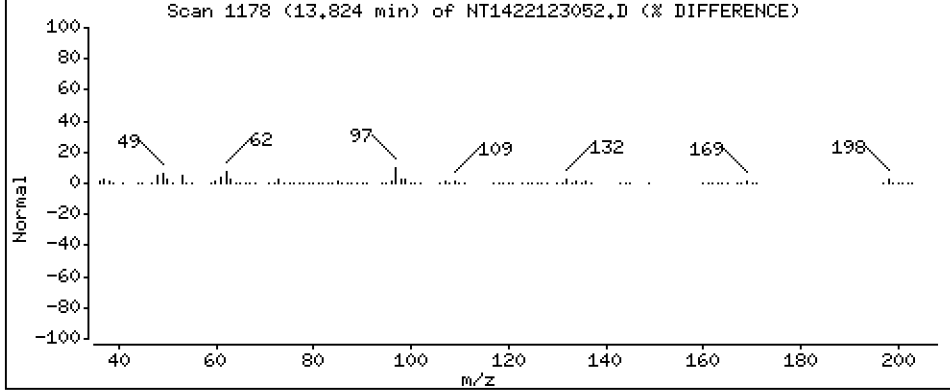
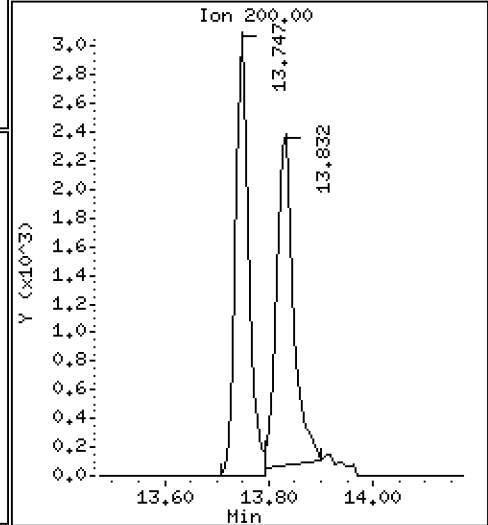
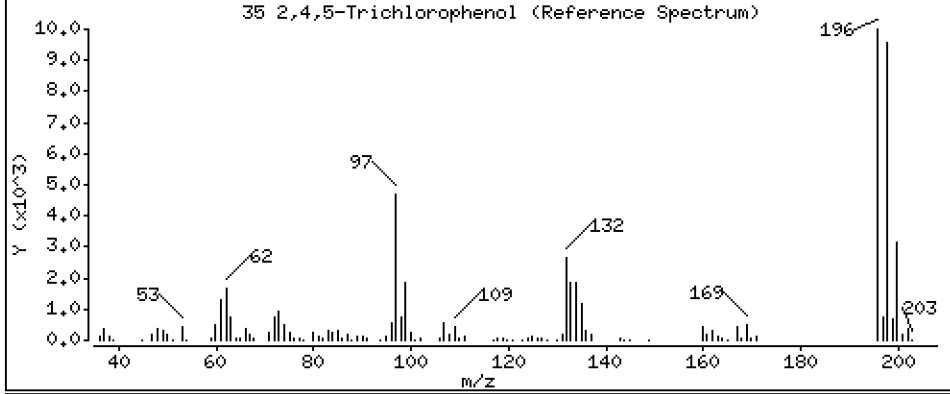
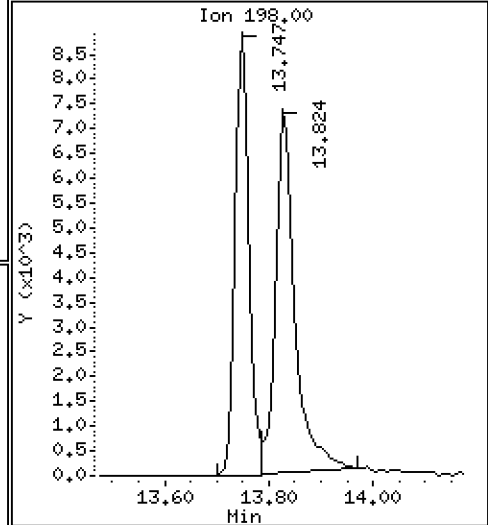
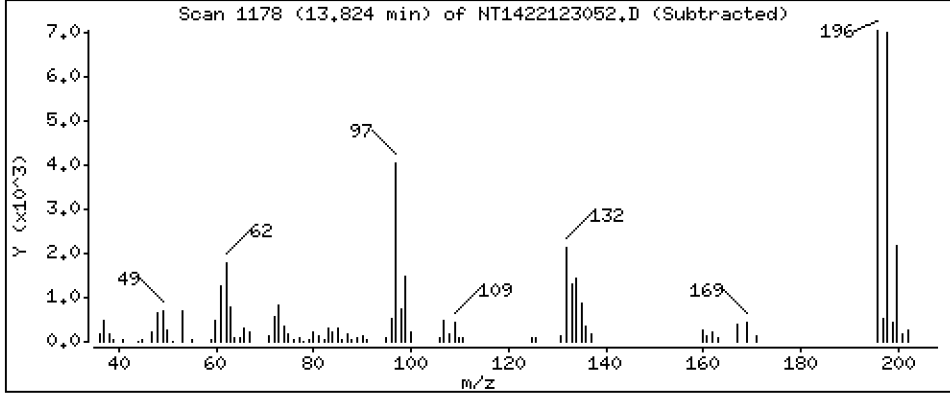
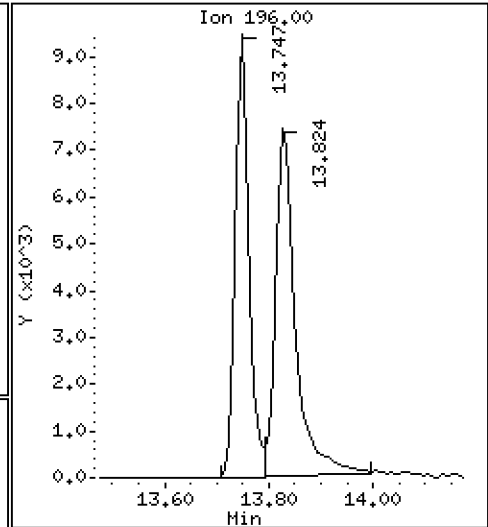
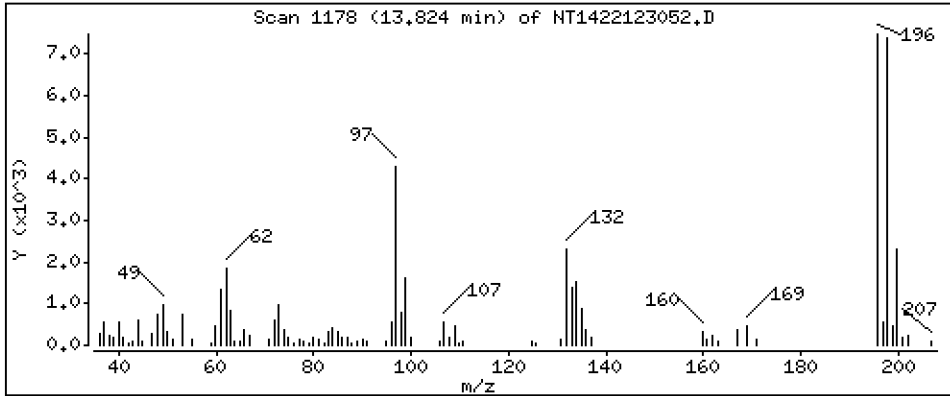
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8994 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

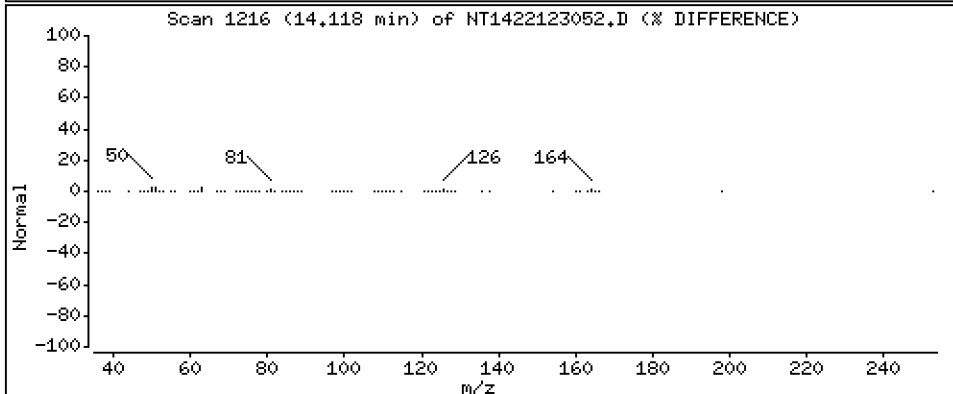
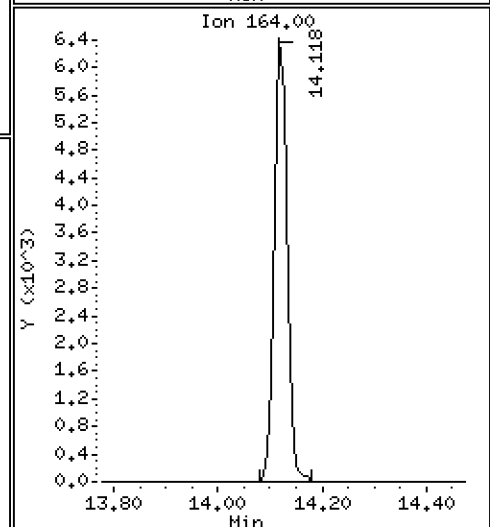
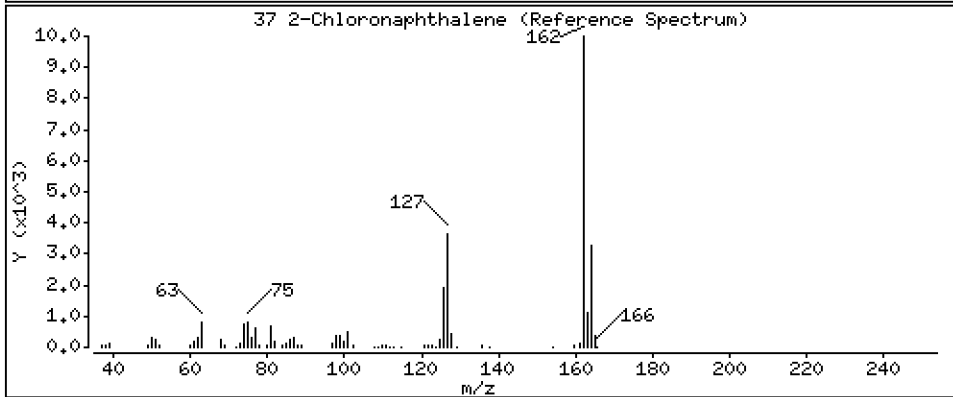
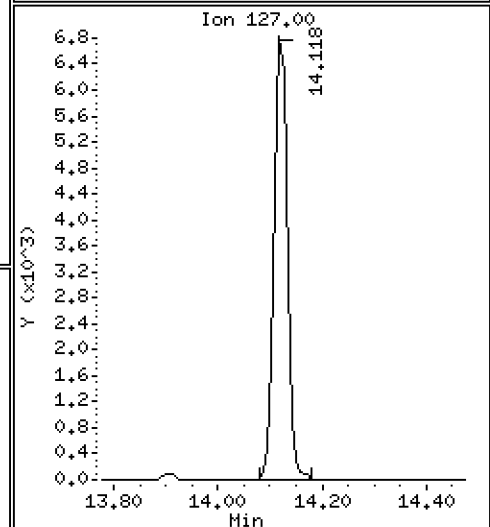
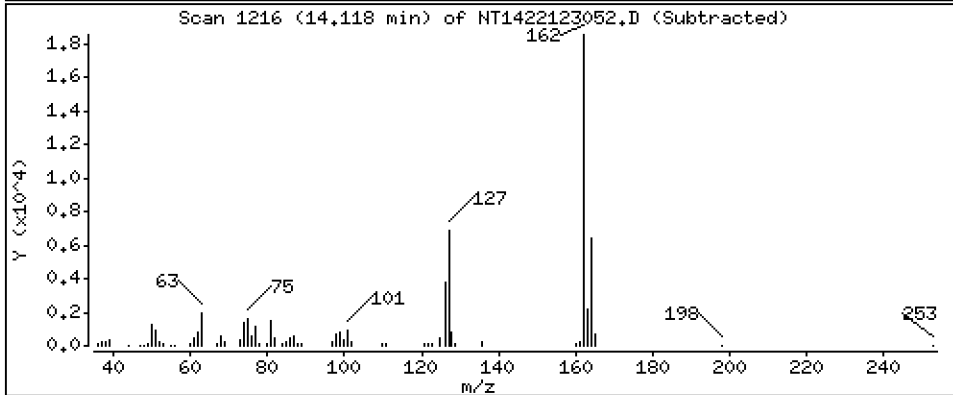
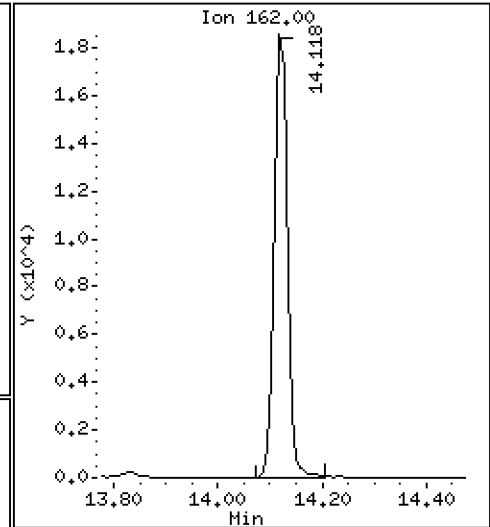
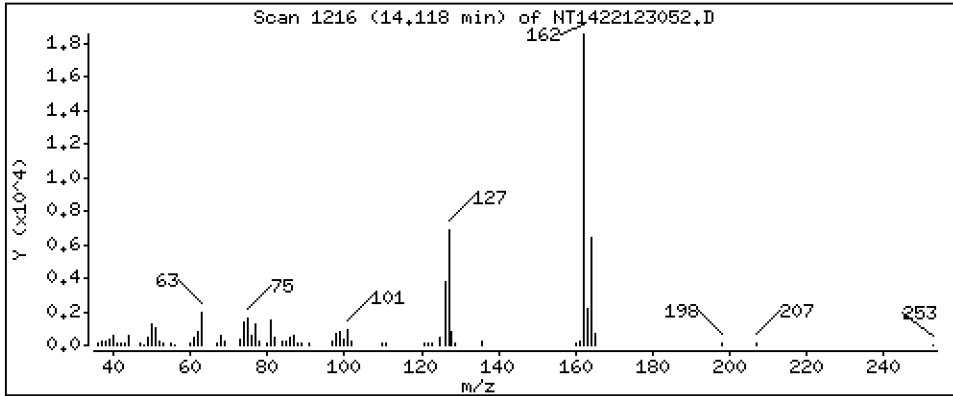
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,4882 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

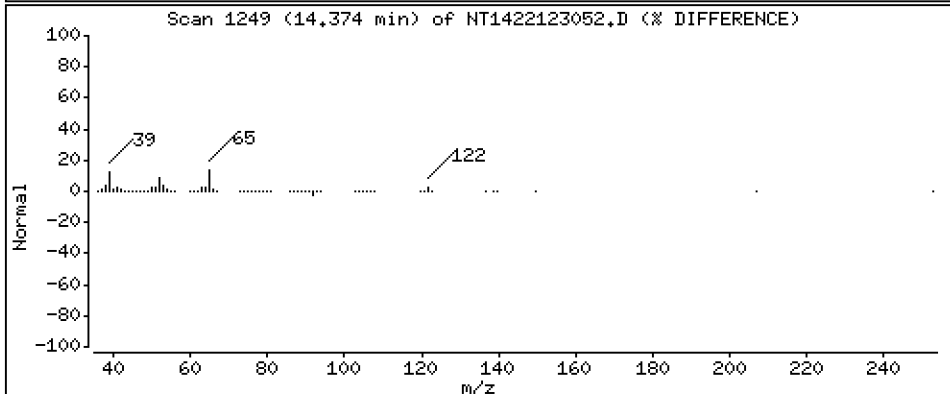
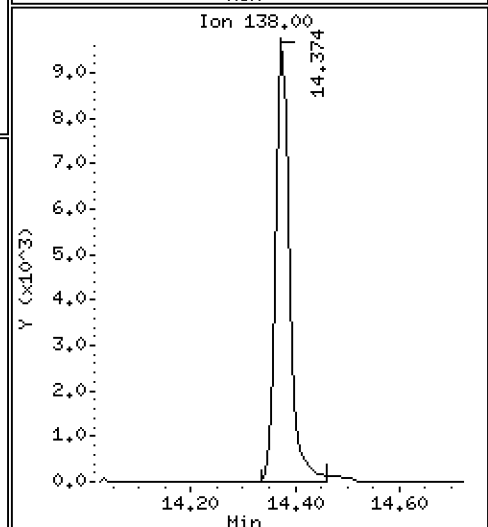
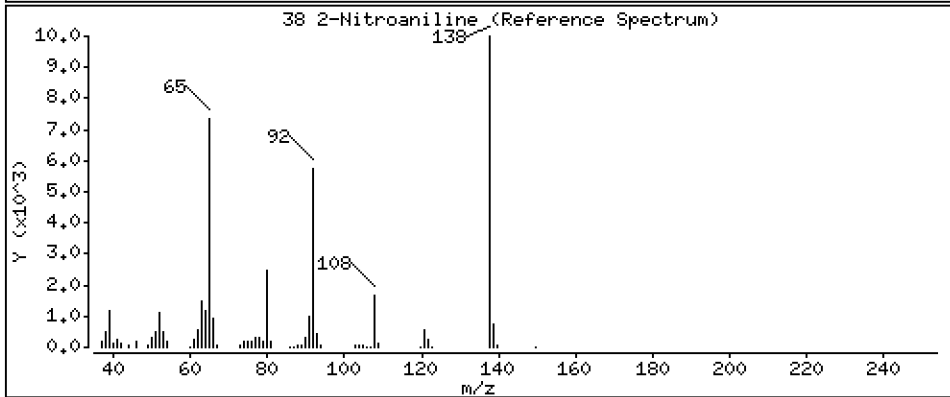
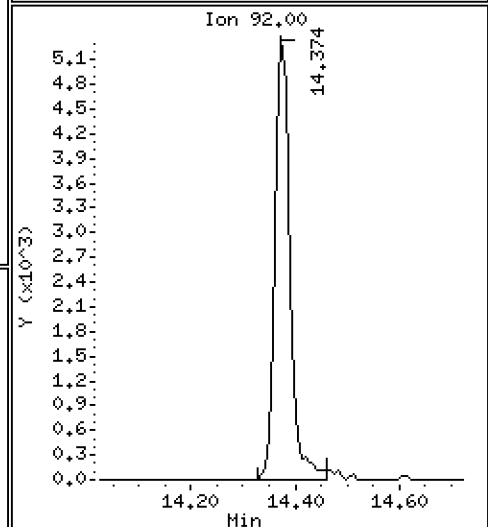
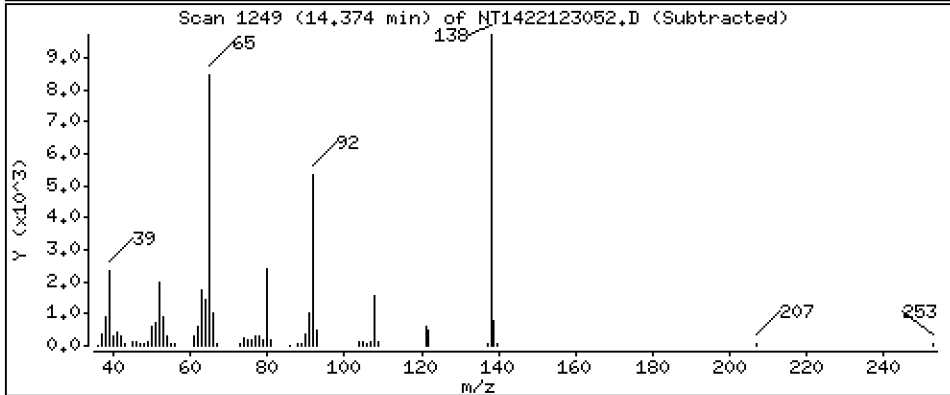
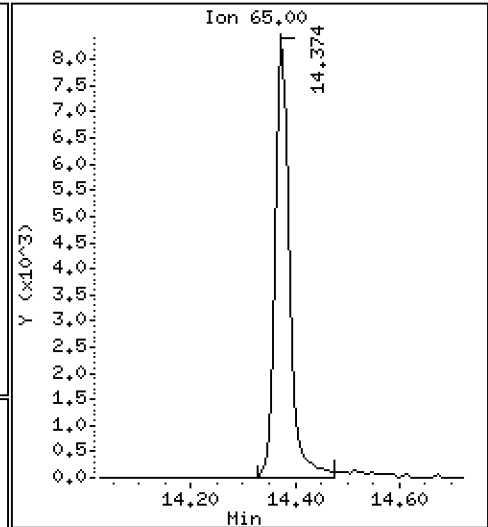
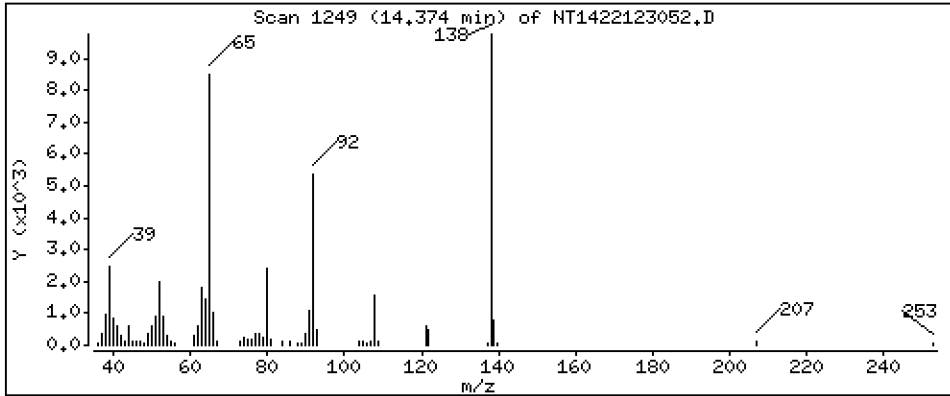
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

38 2-Nitroaniline

Concentration: 0,9202 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

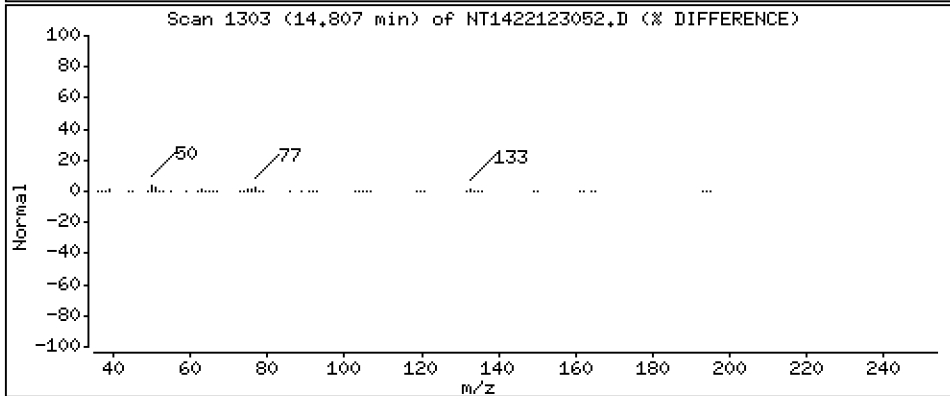
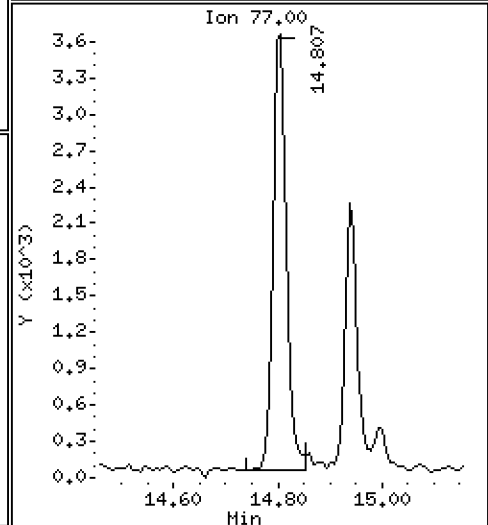
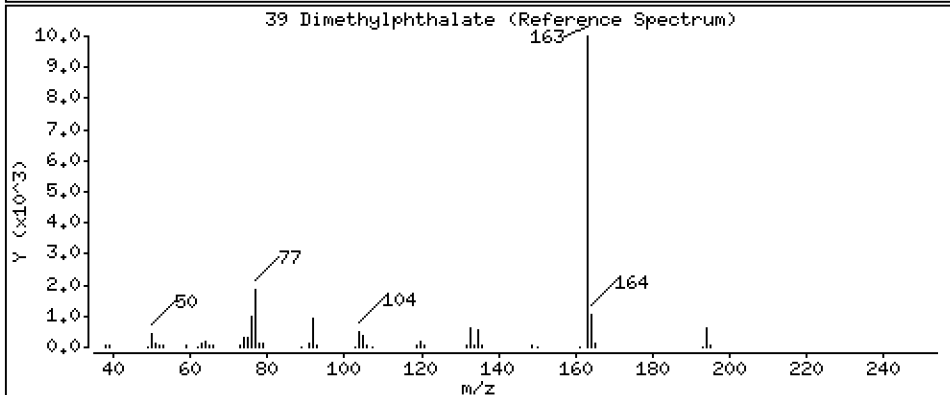
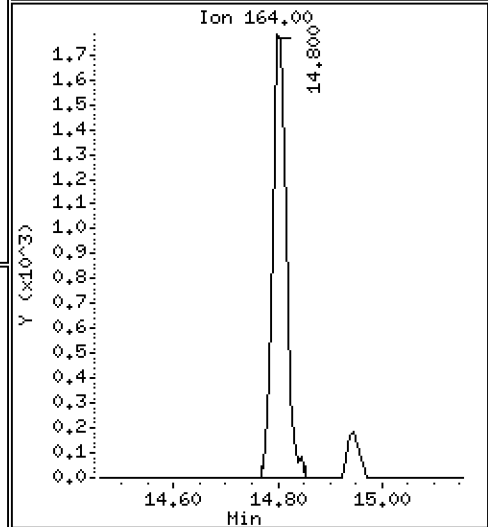
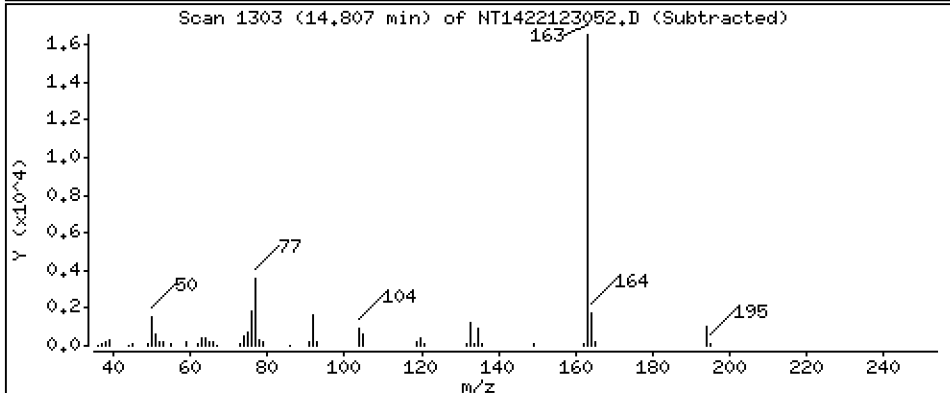
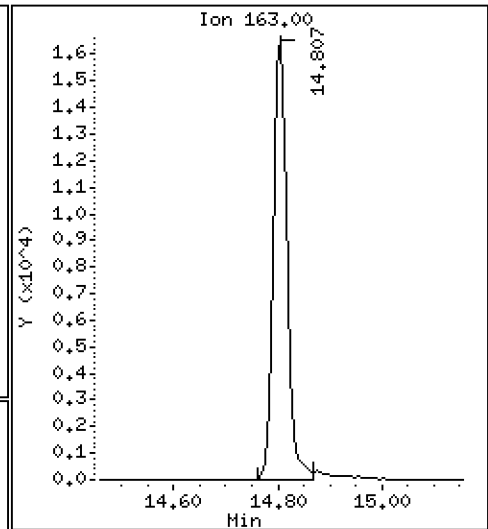
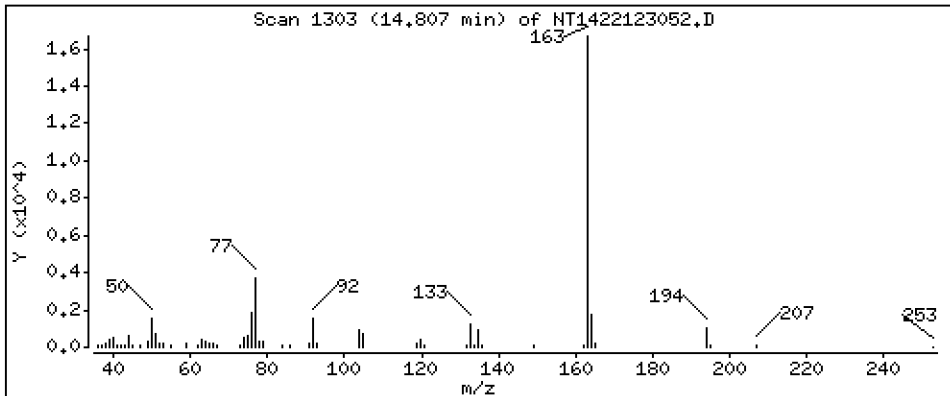
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,4656 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

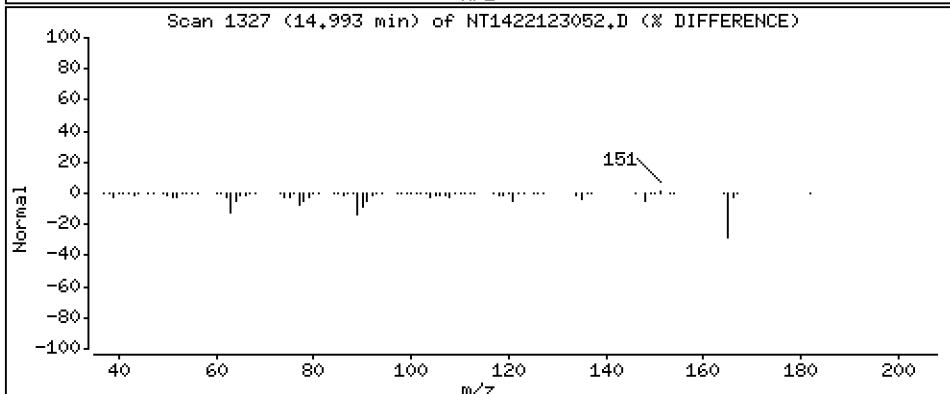
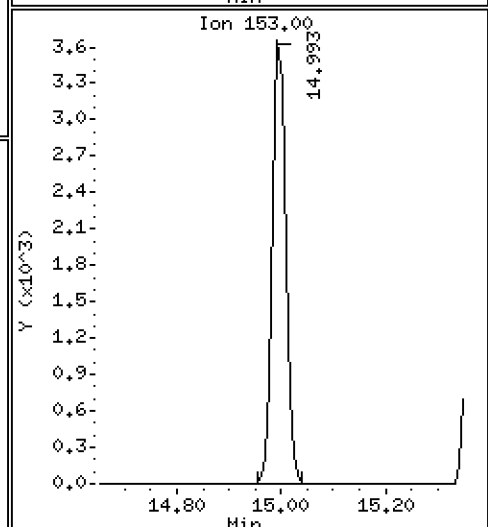
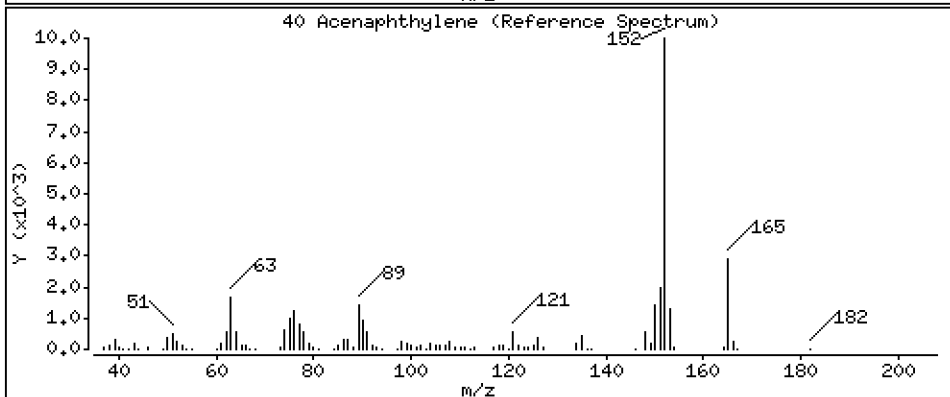
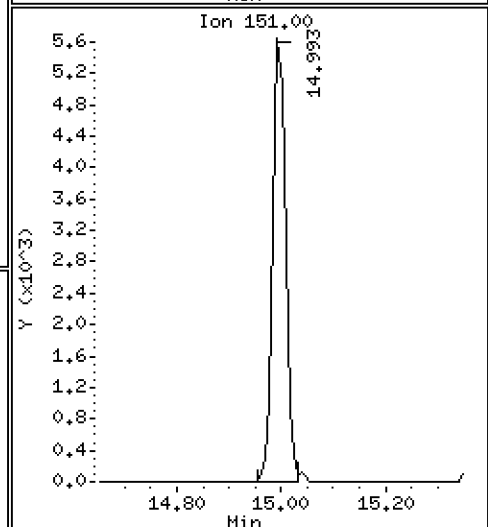
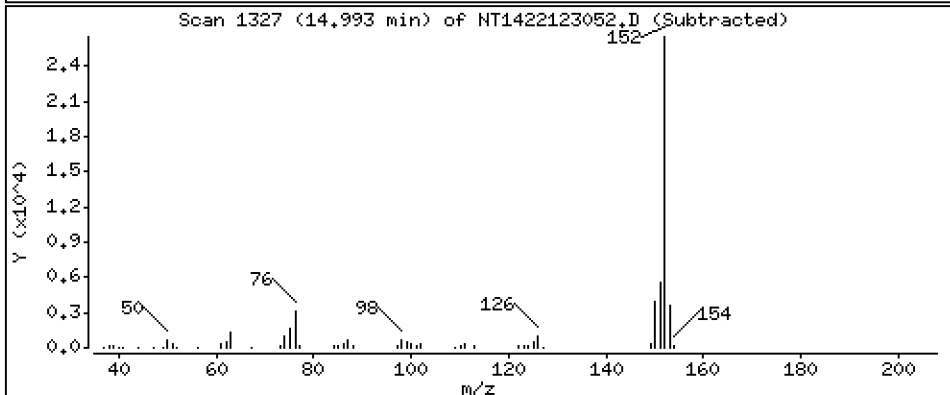
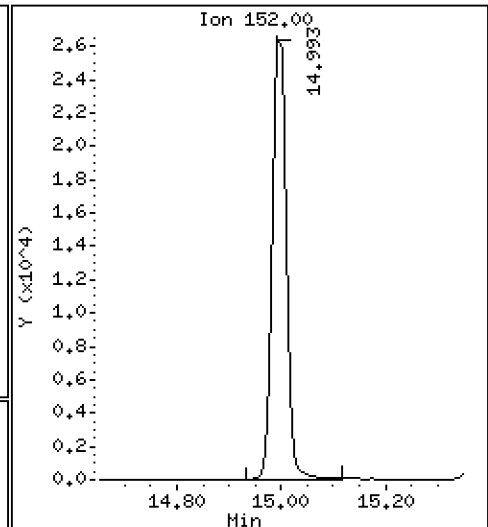
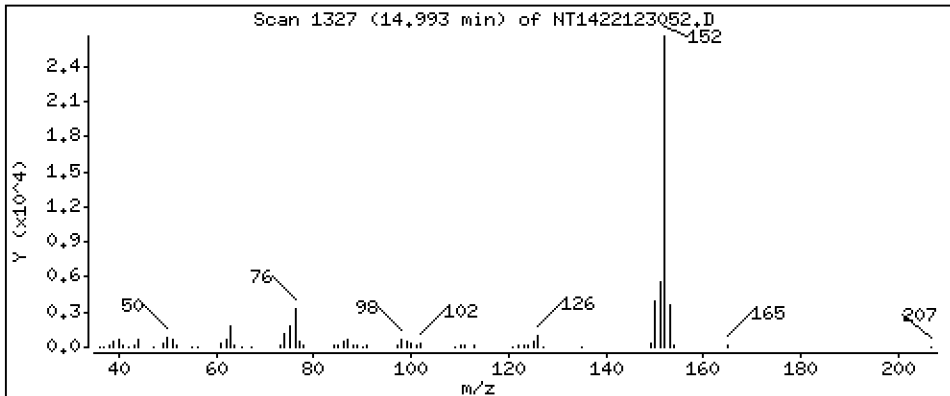
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,5321 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

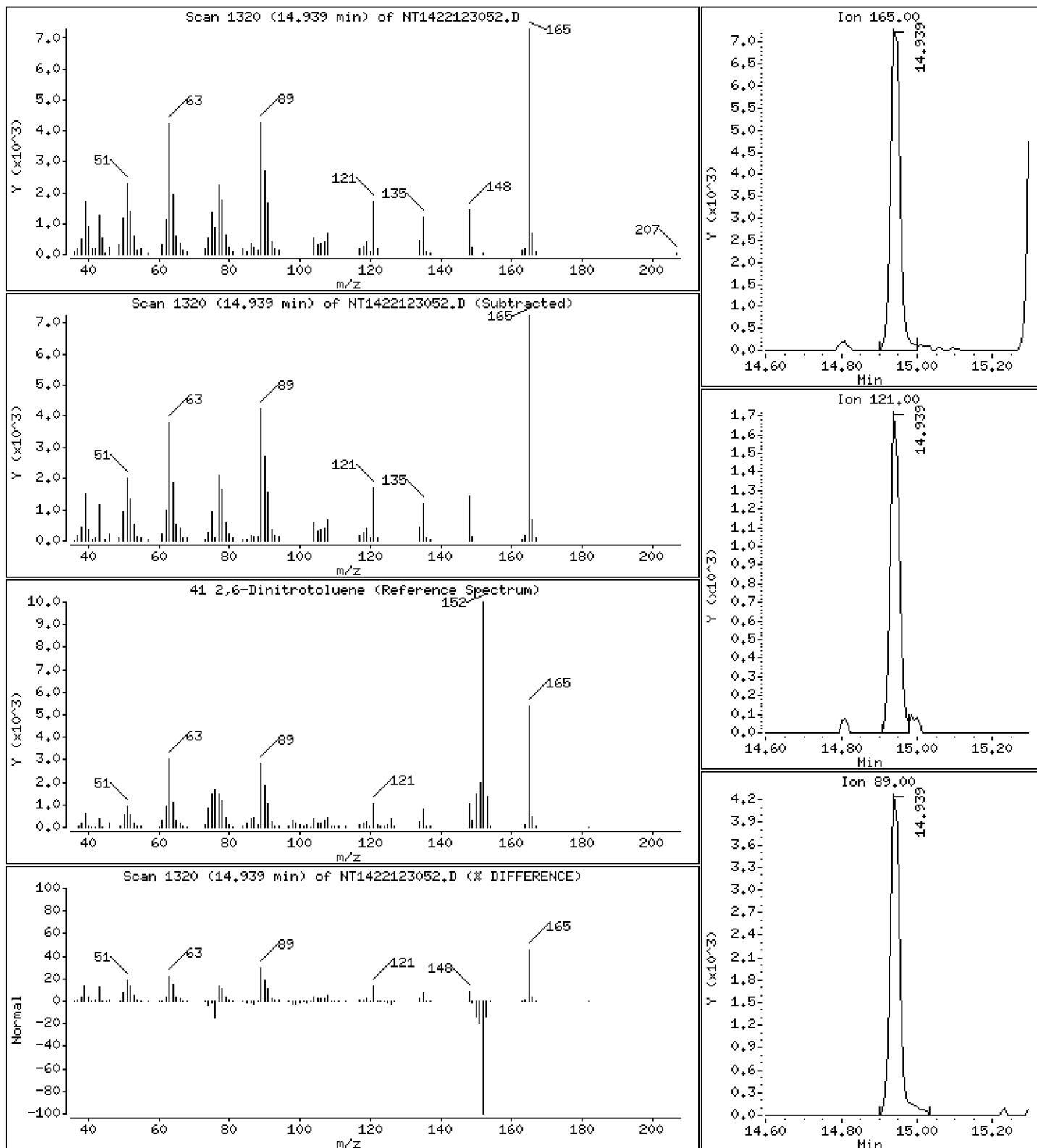
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,8515 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

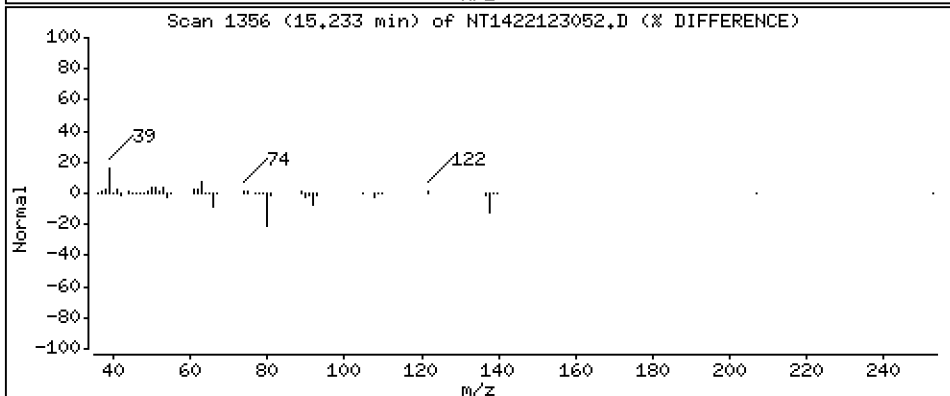
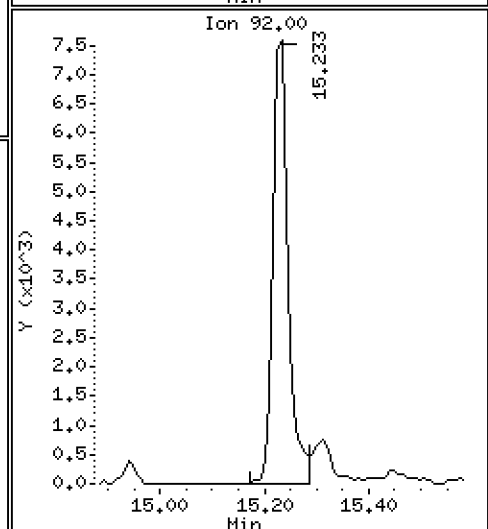
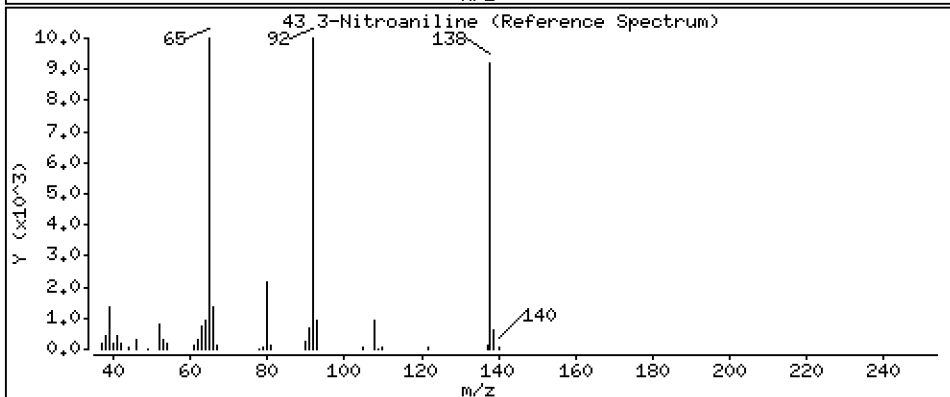
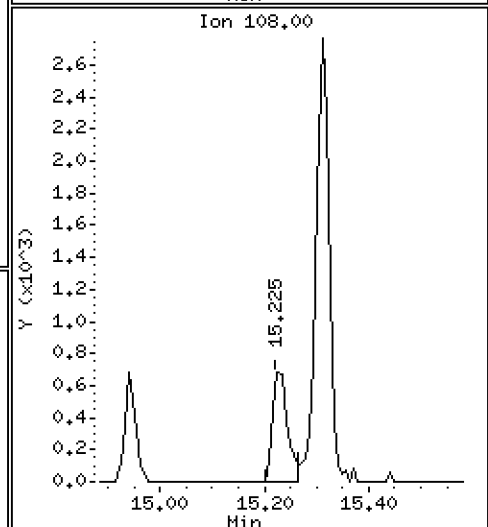
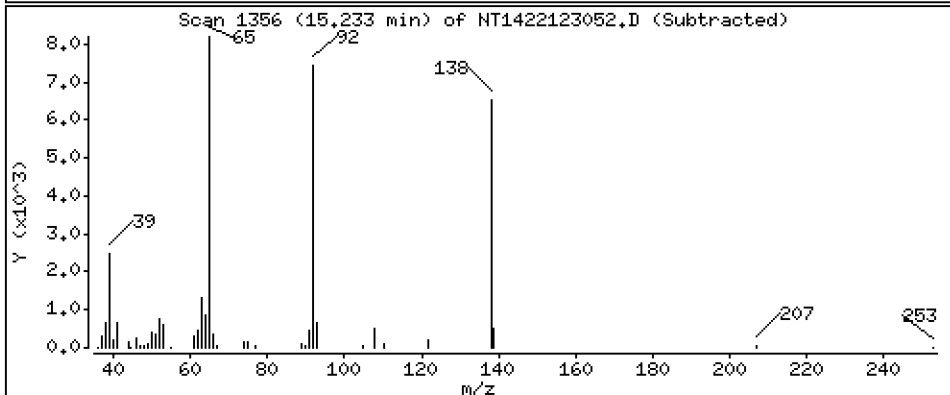
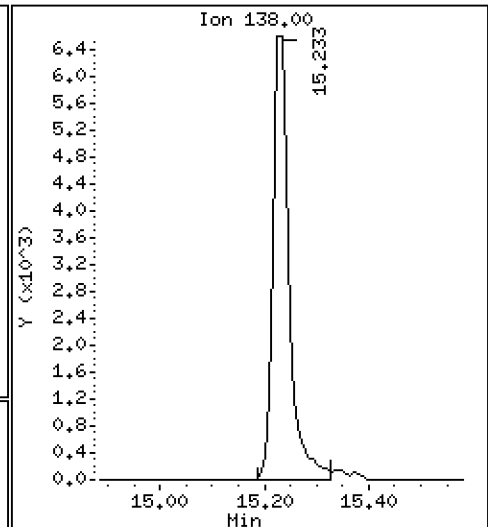
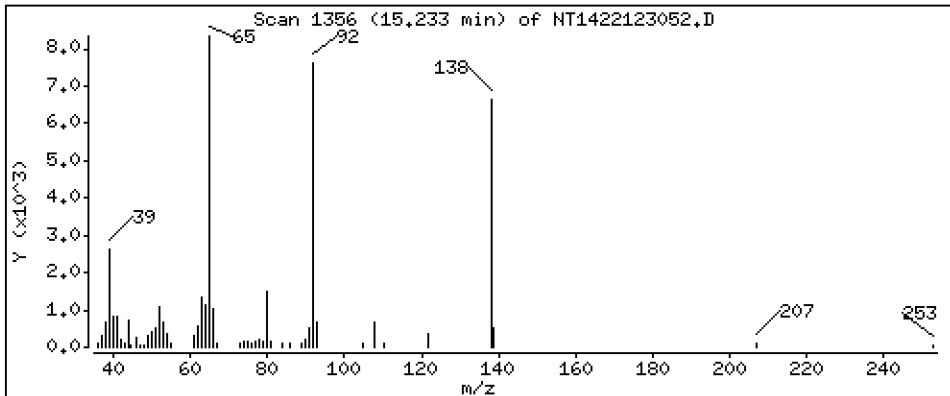
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,8004 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

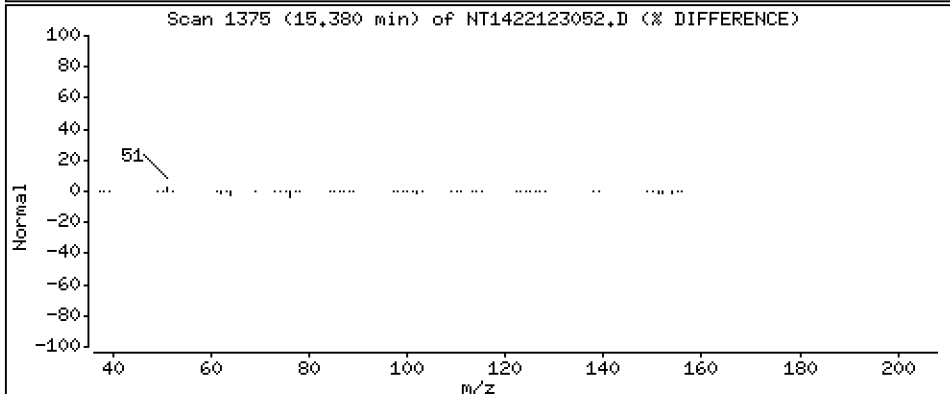
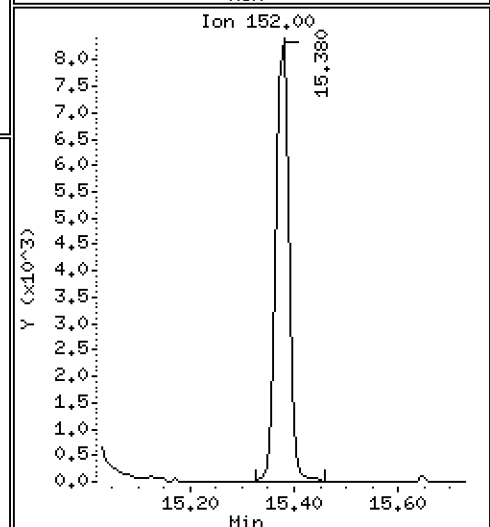
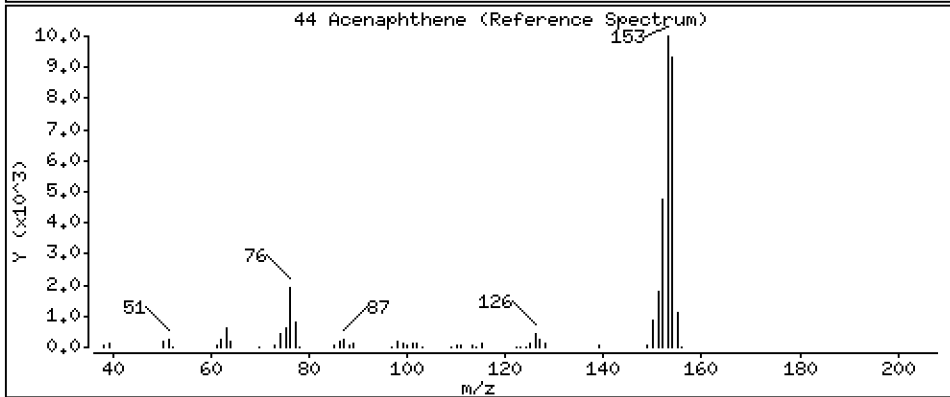
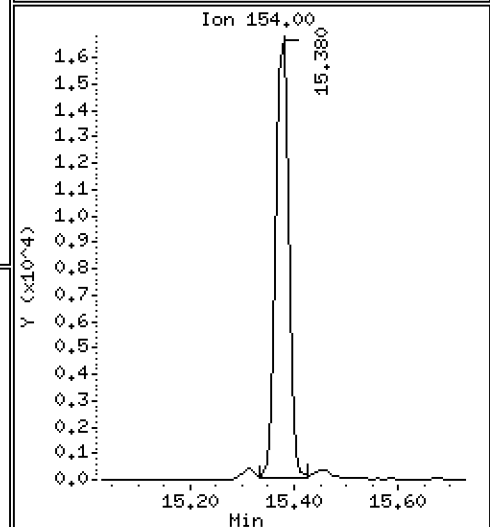
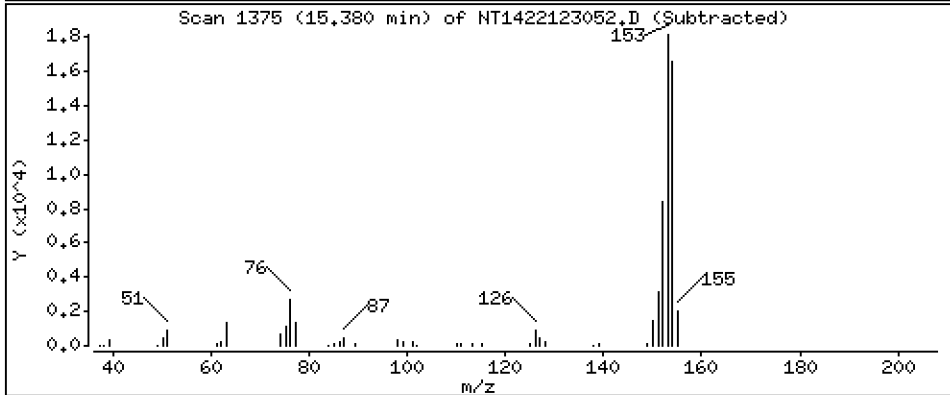
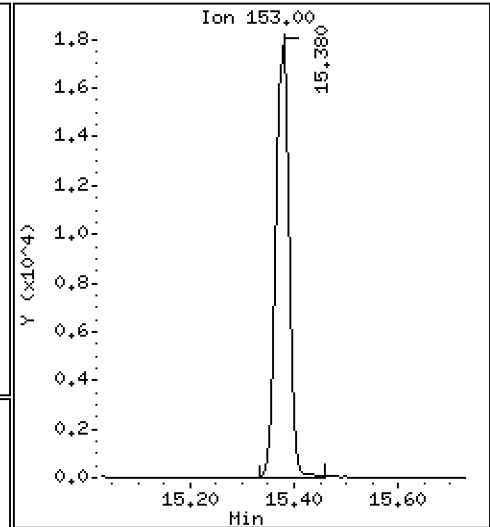
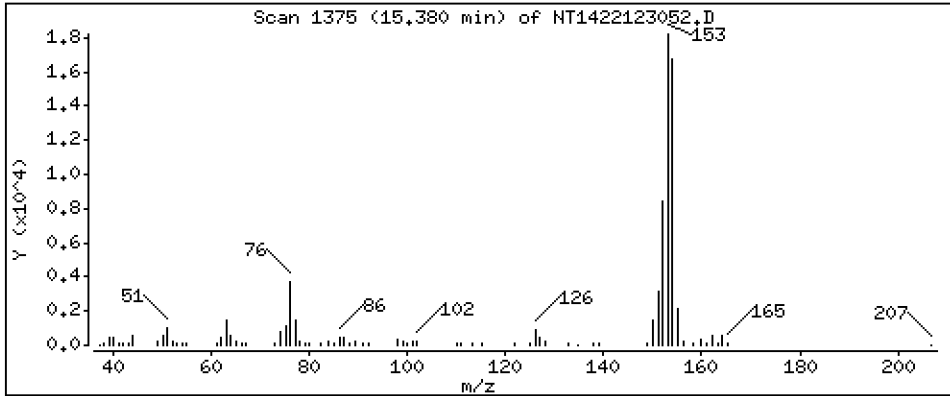
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,4966 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

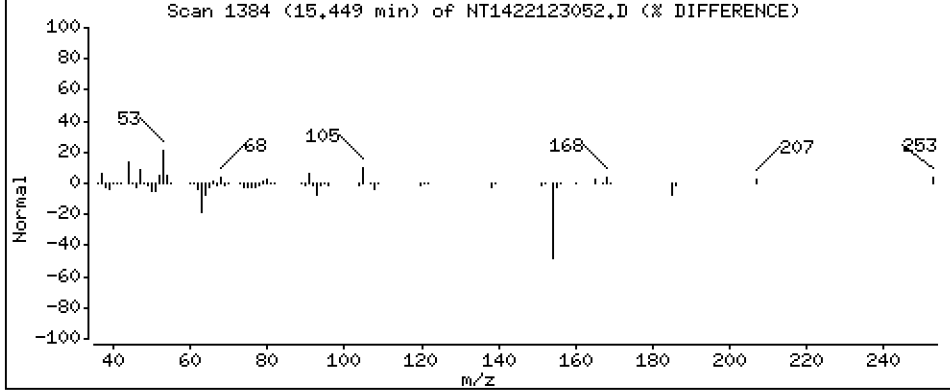
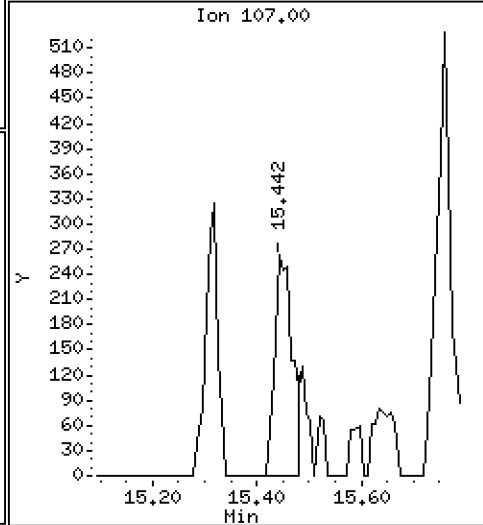
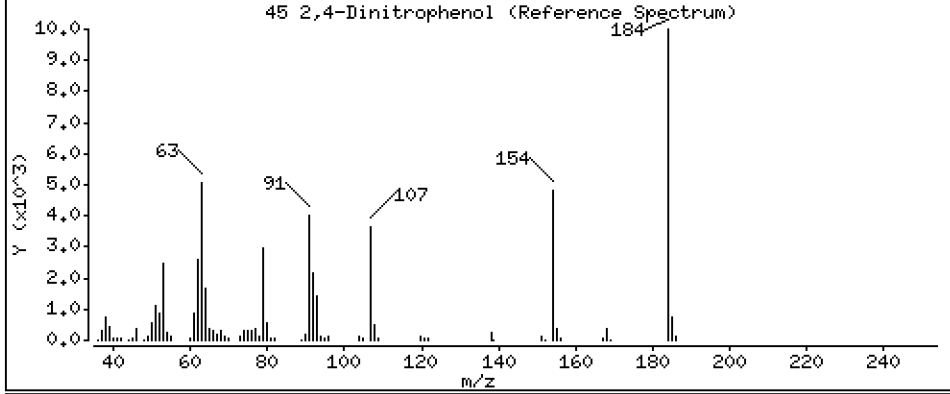
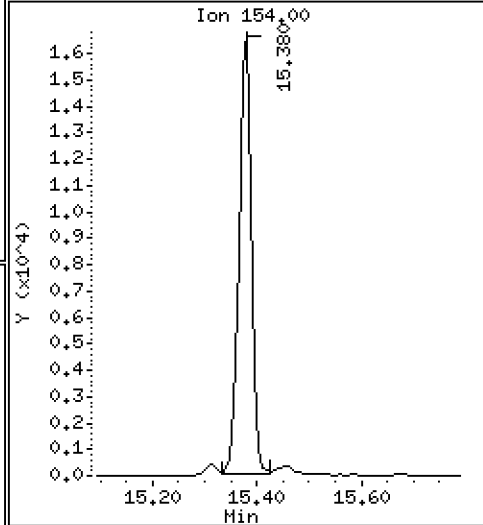
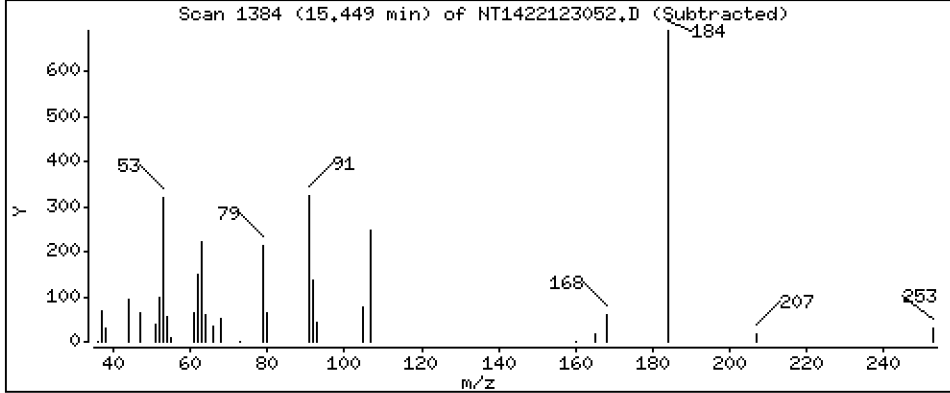
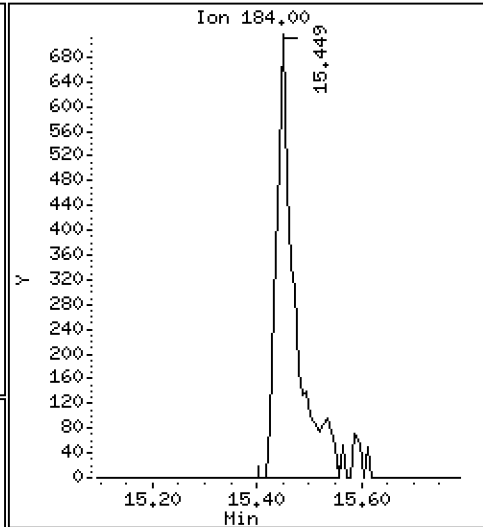
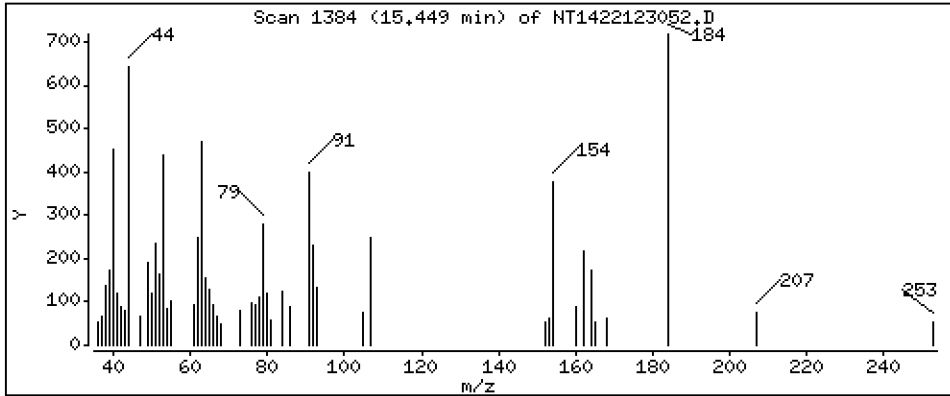
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,1450 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

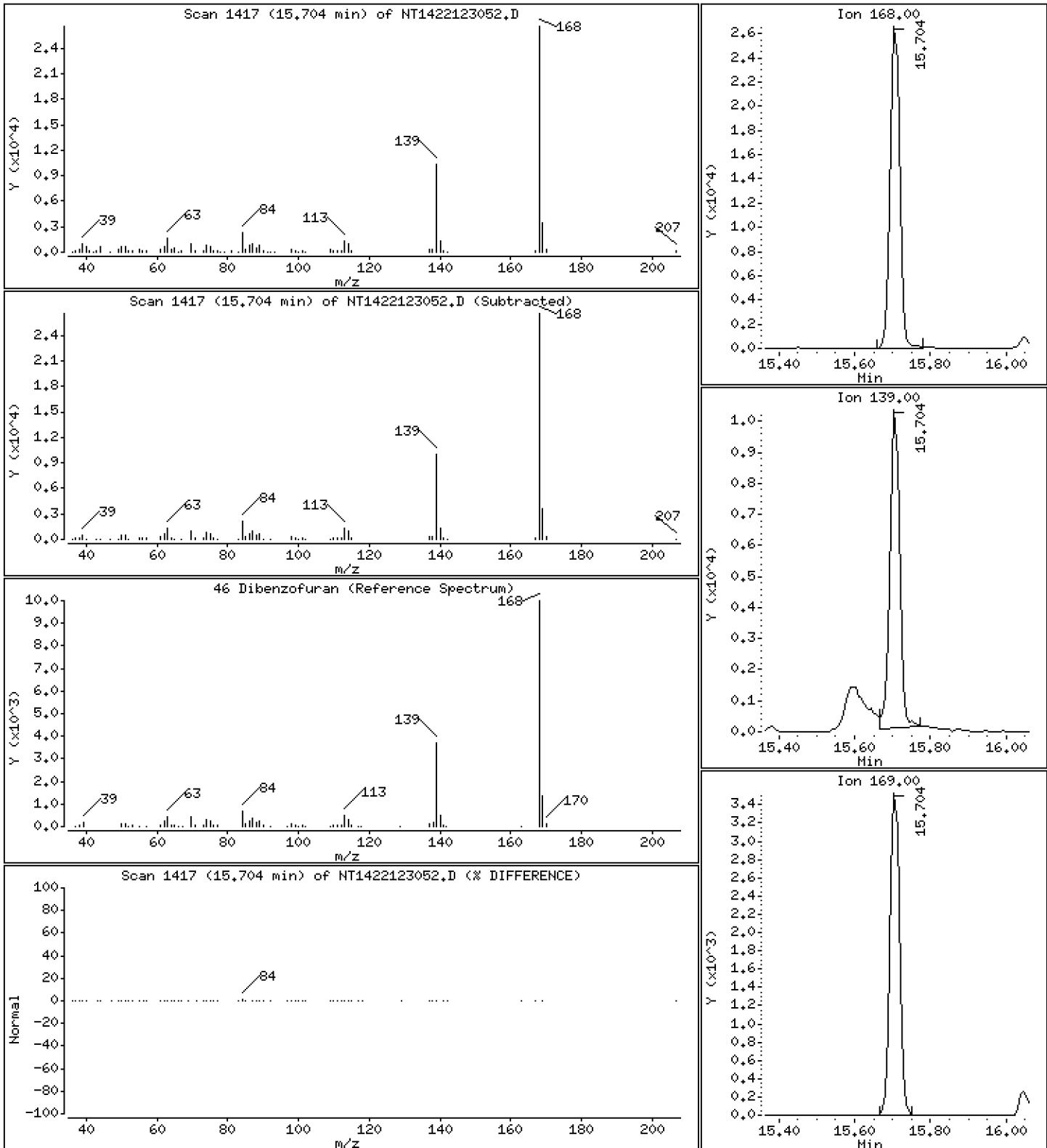
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,4927 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

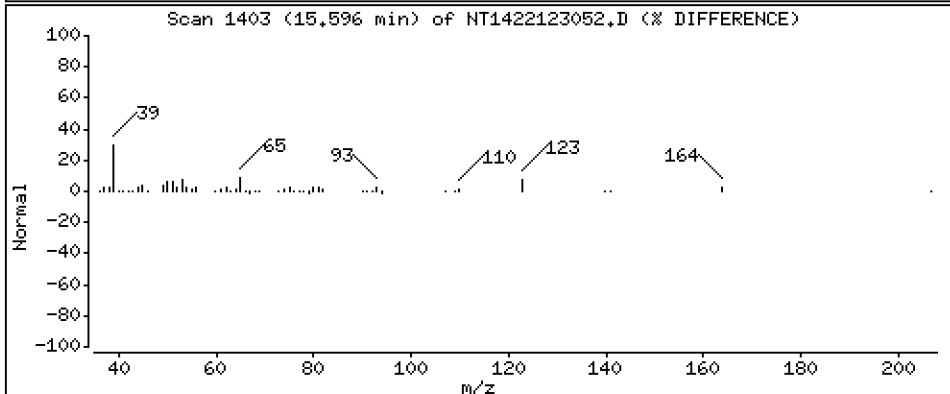
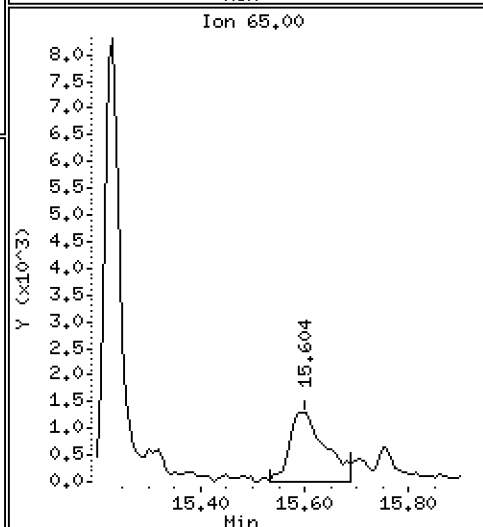
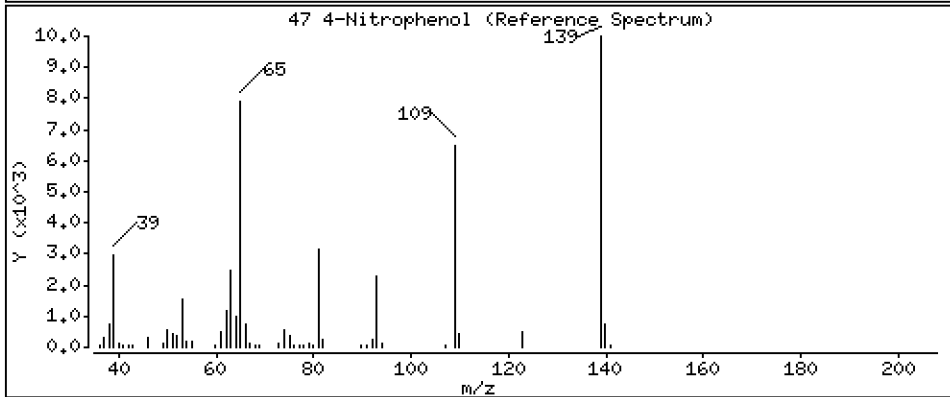
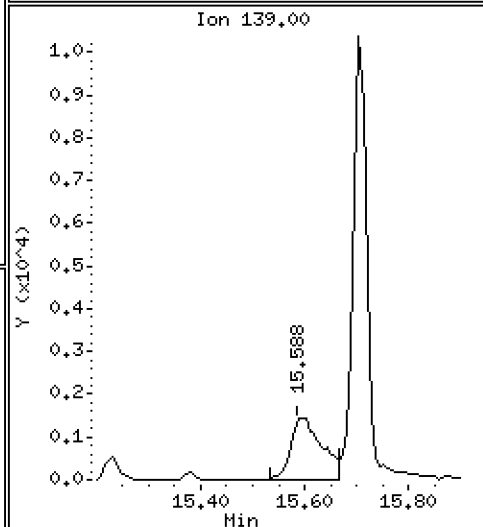
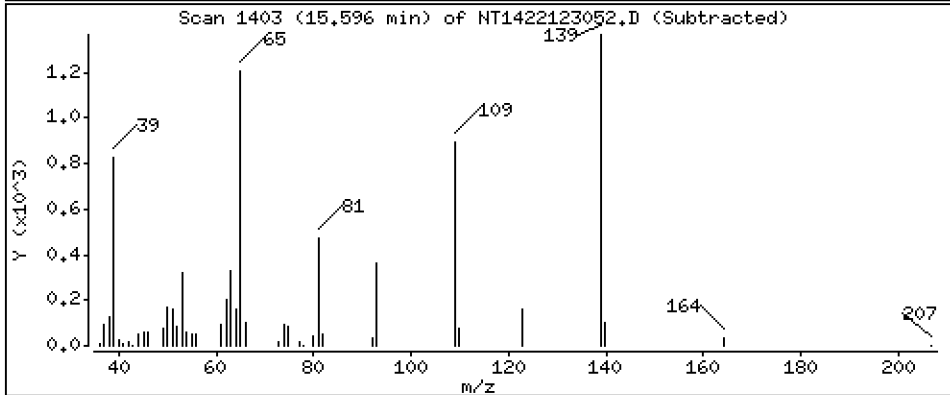
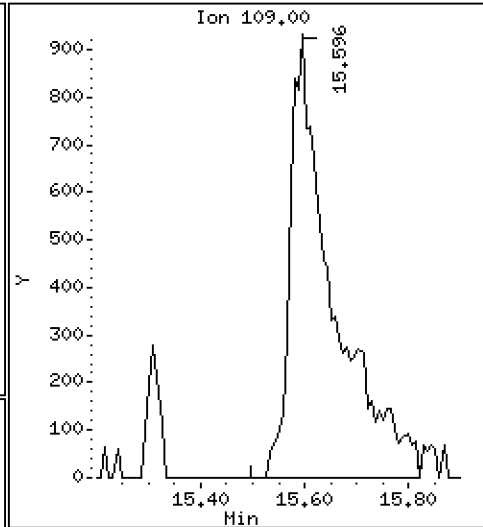
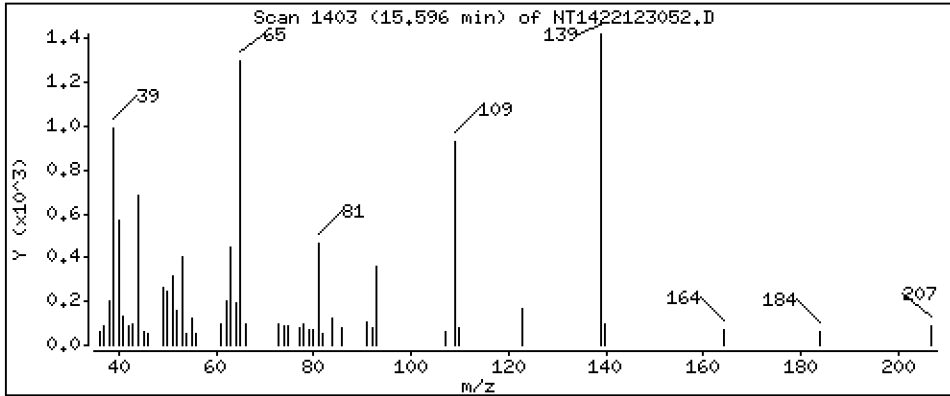
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,6475 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

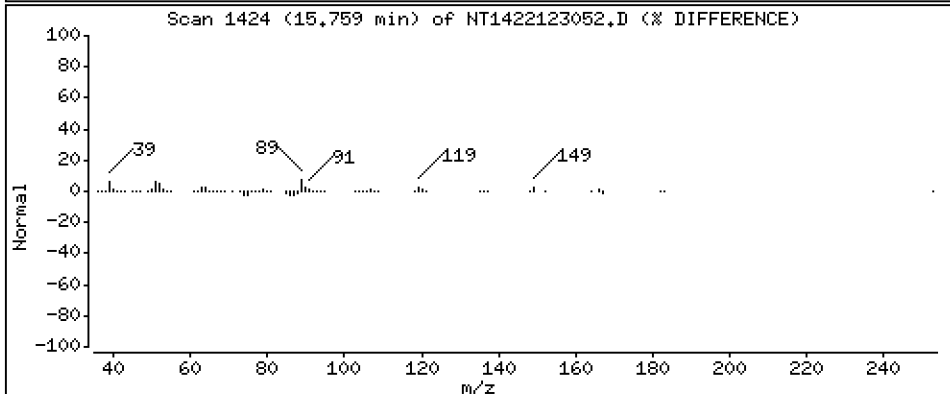
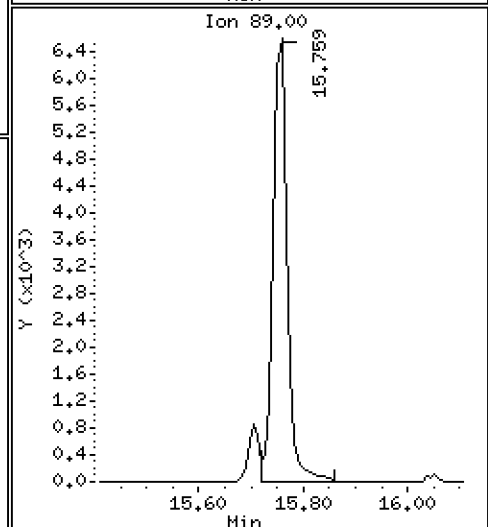
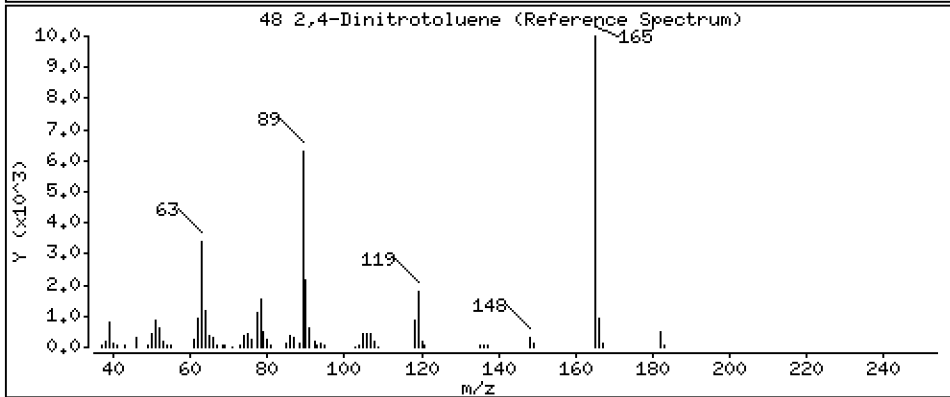
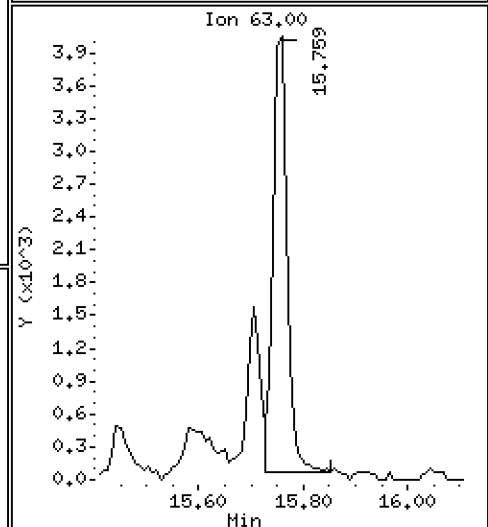
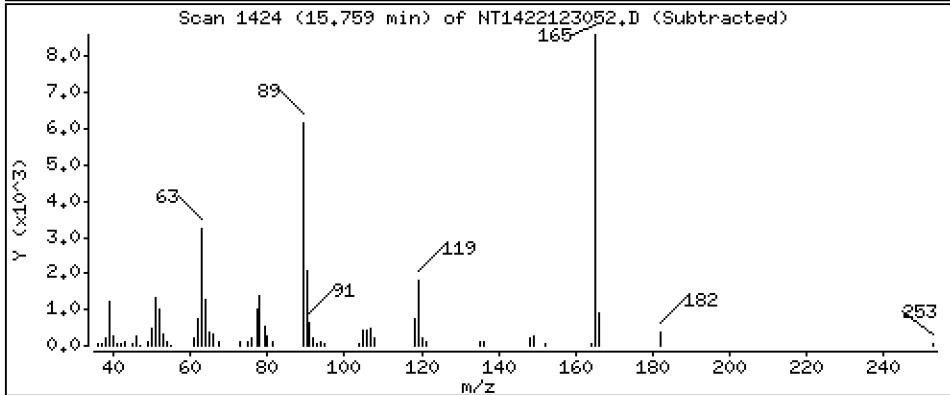
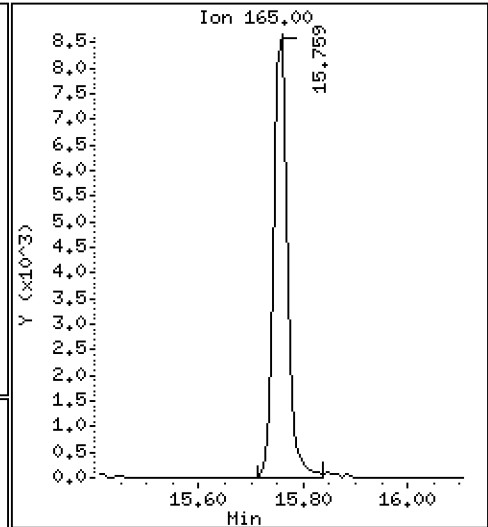
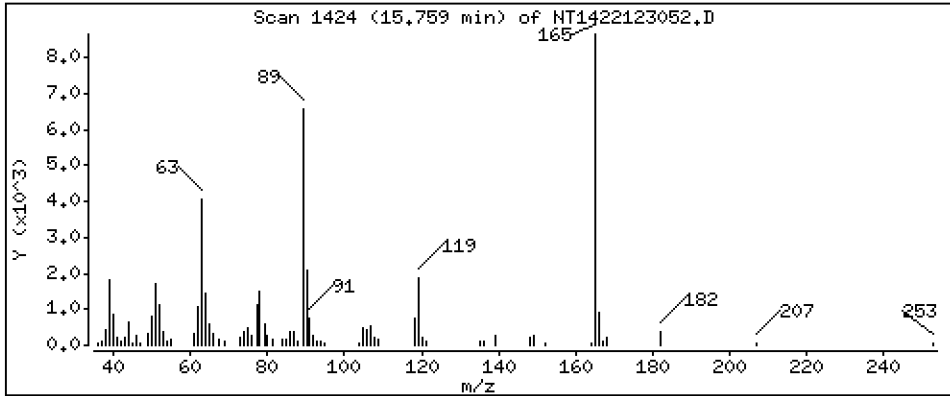
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,7788 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

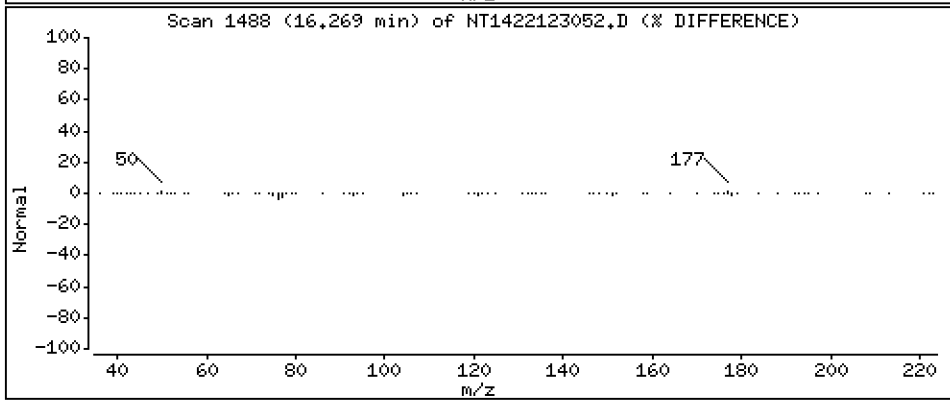
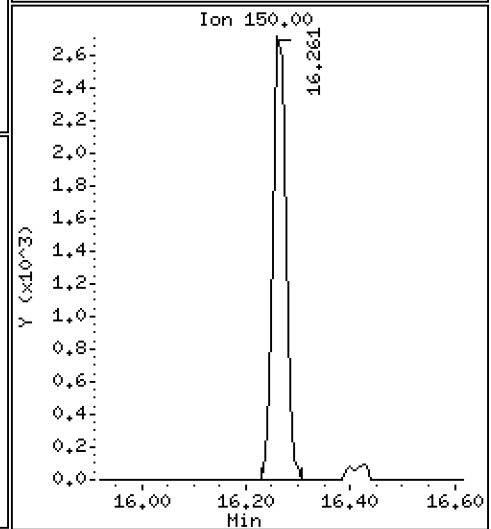
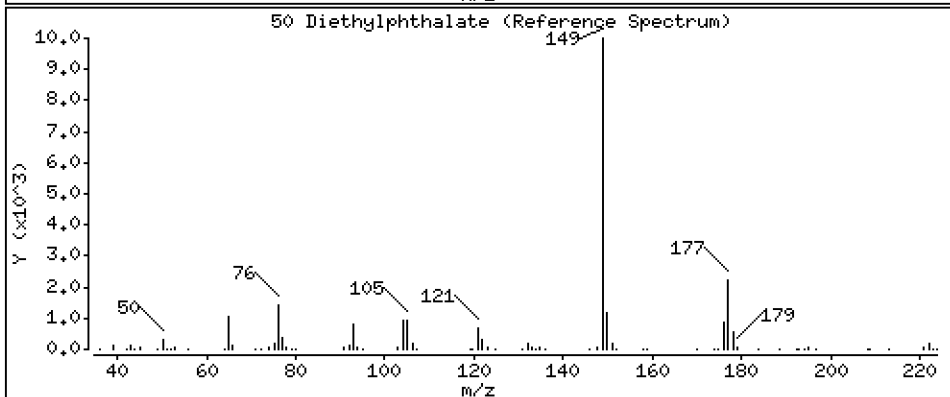
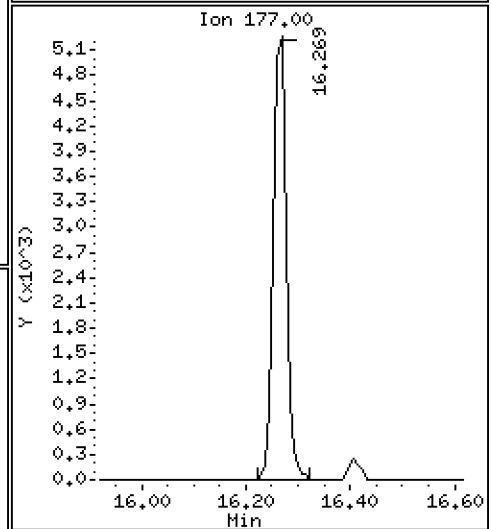
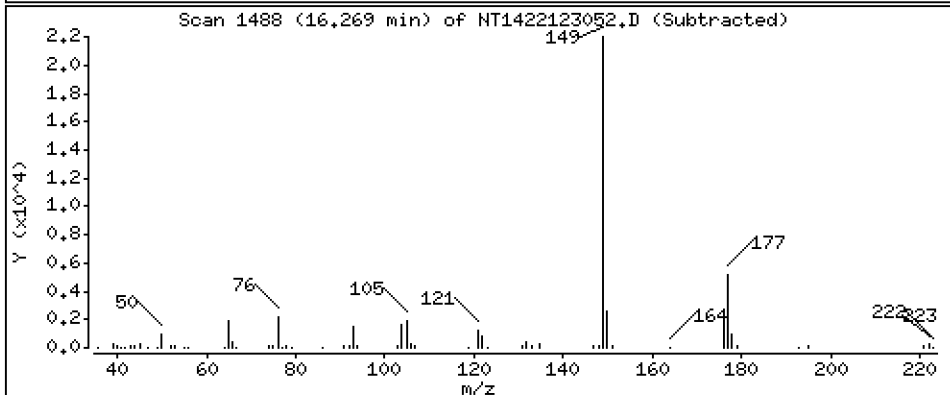
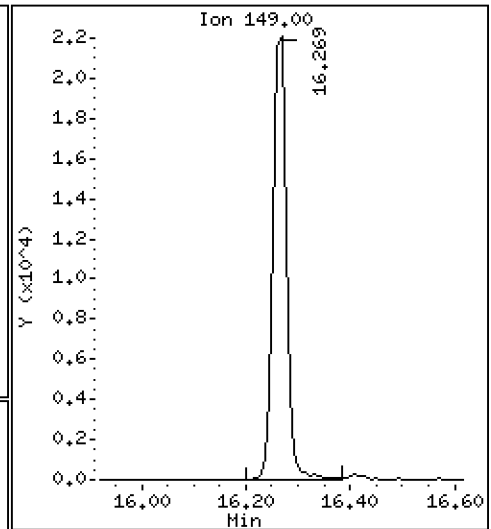
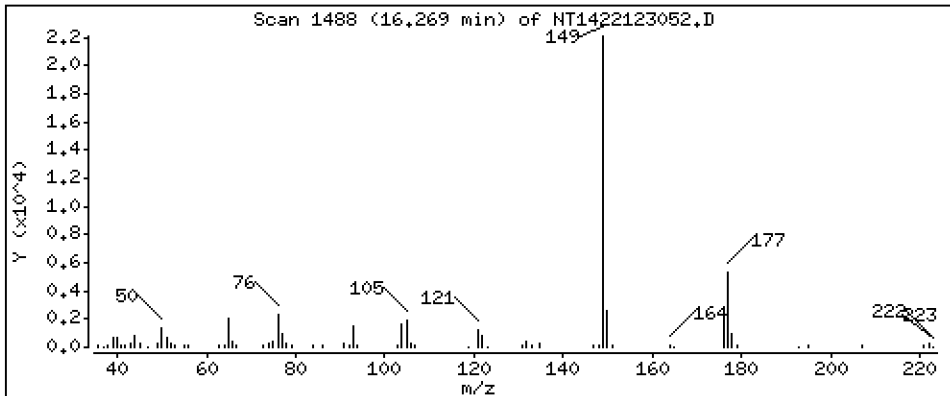
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,5374 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

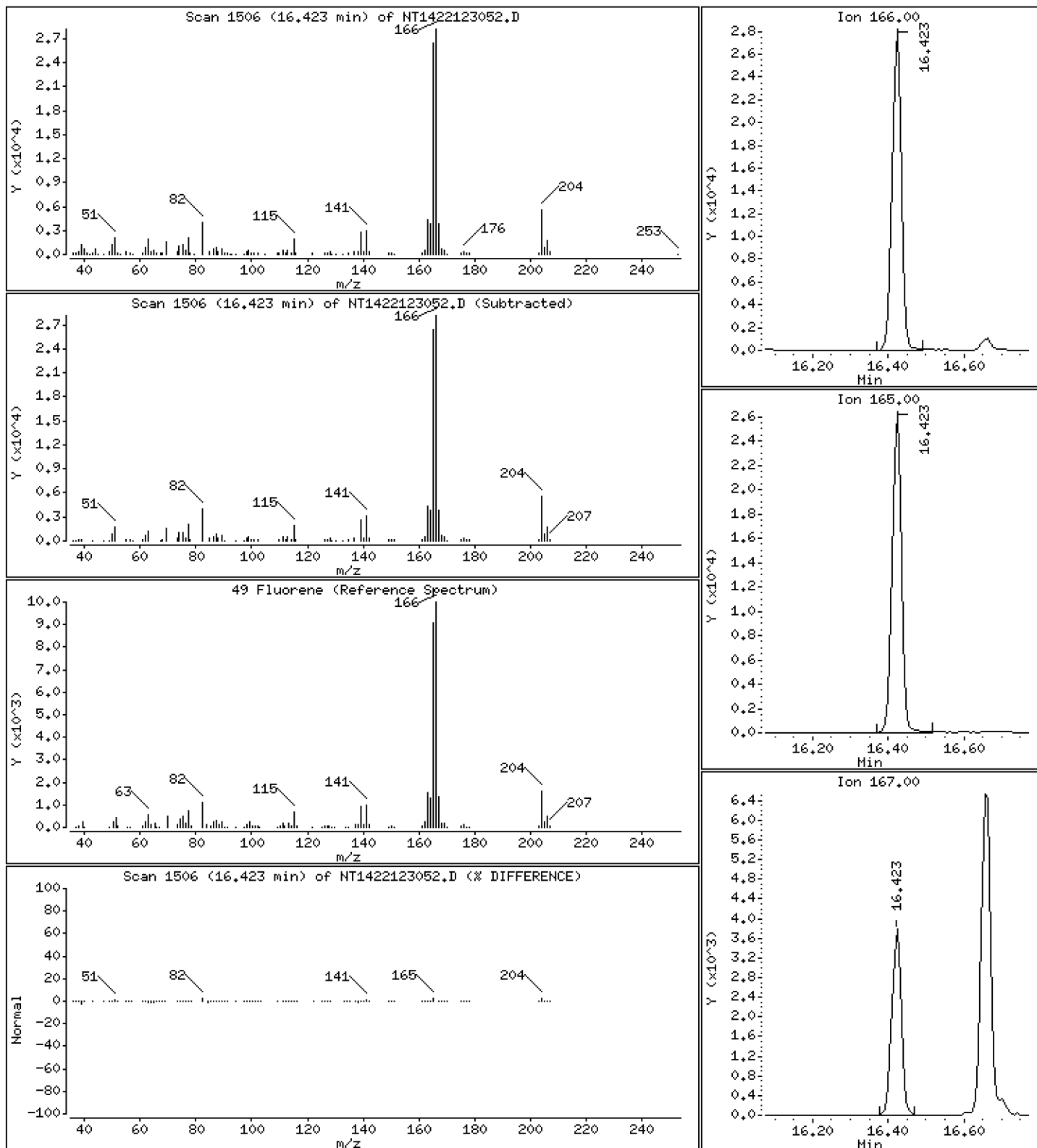
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,4836 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

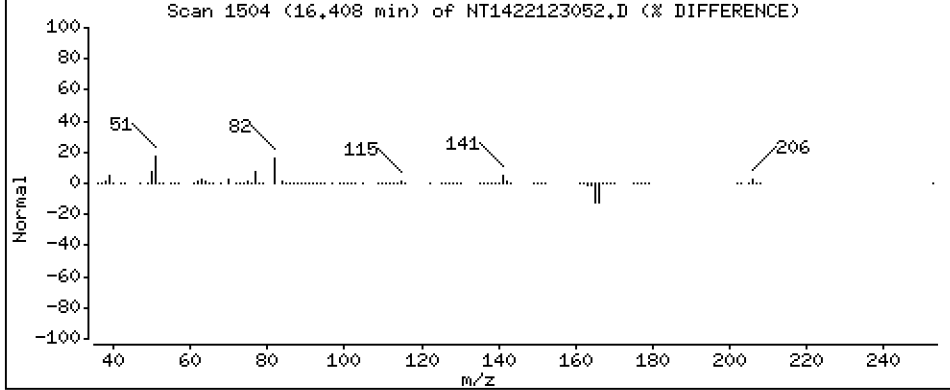
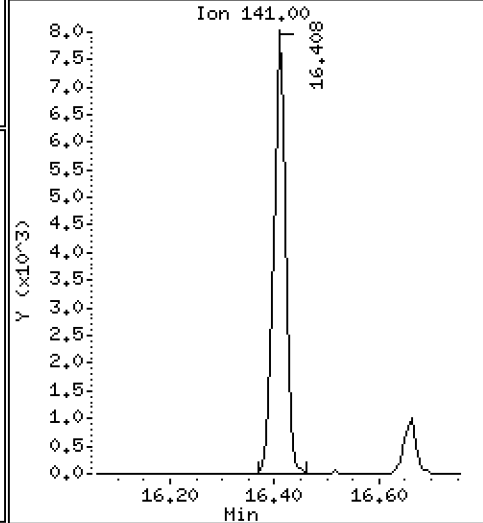
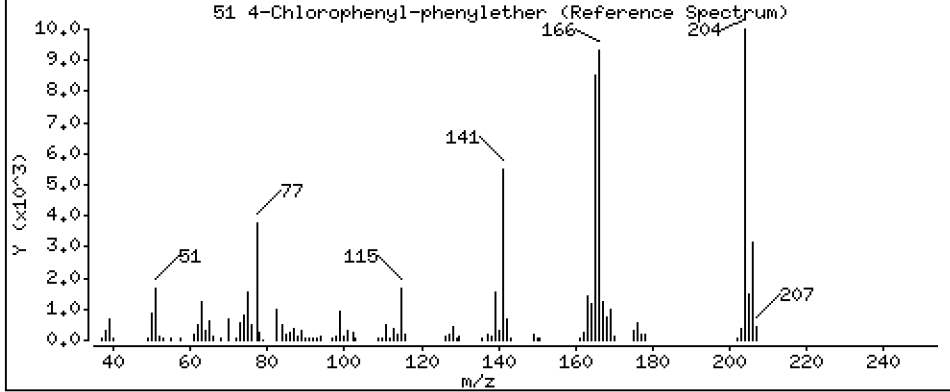
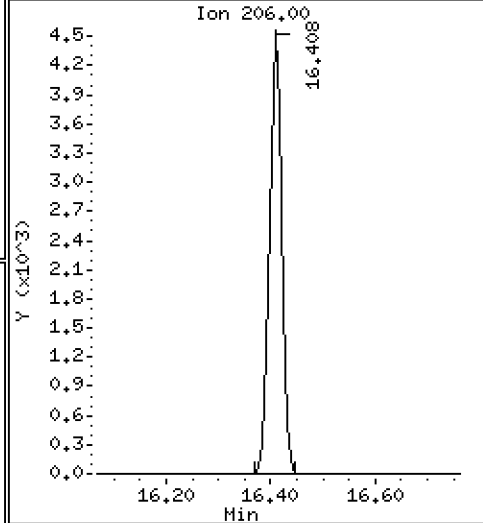
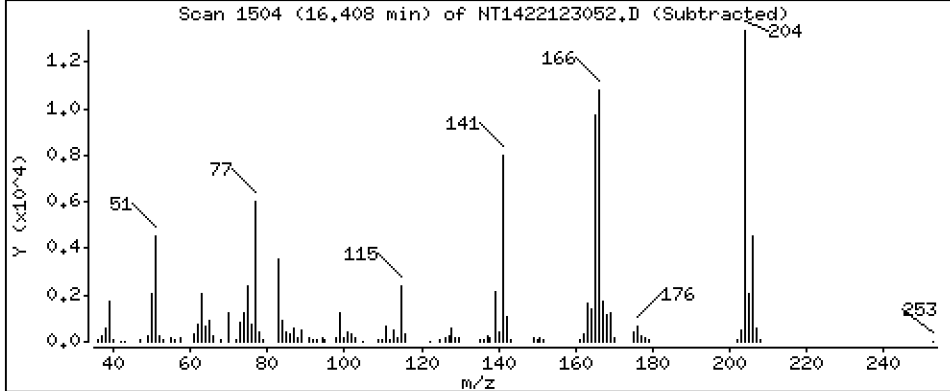
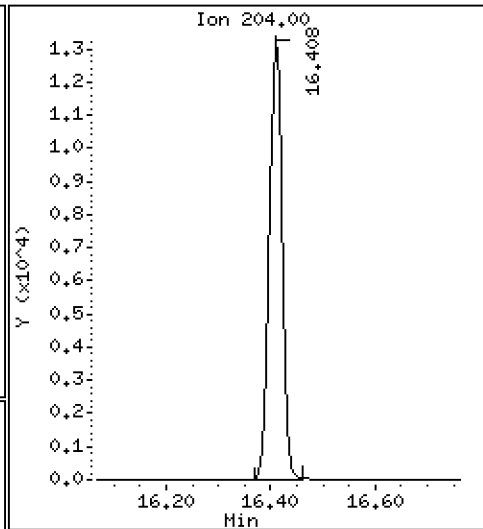
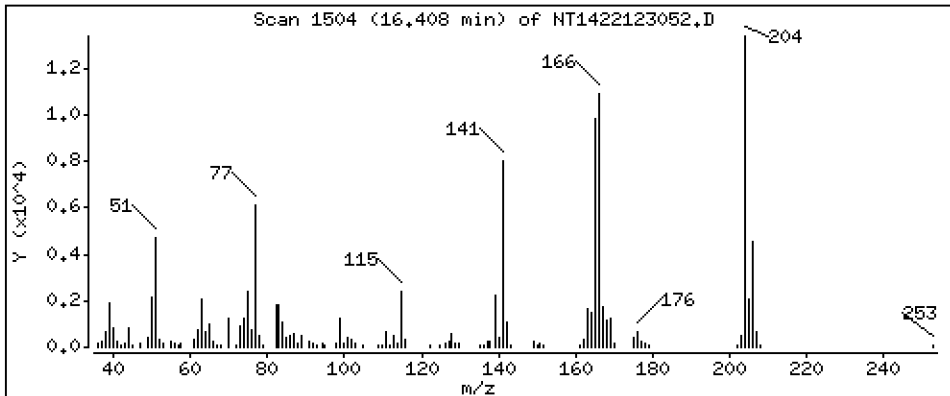
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,4585 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

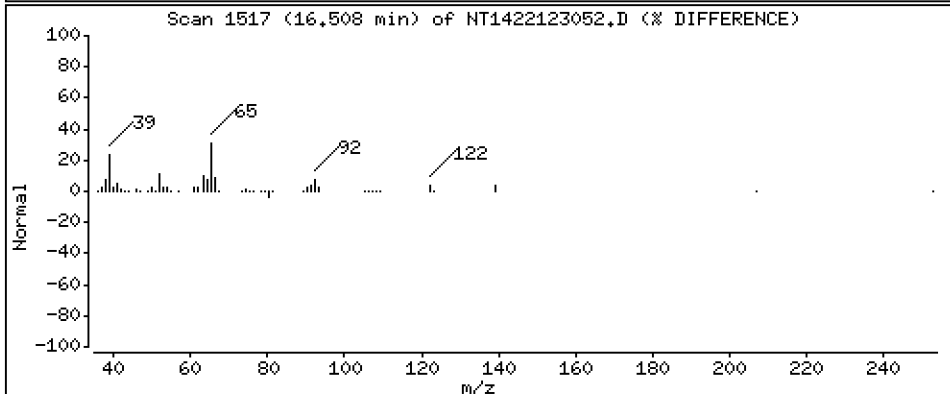
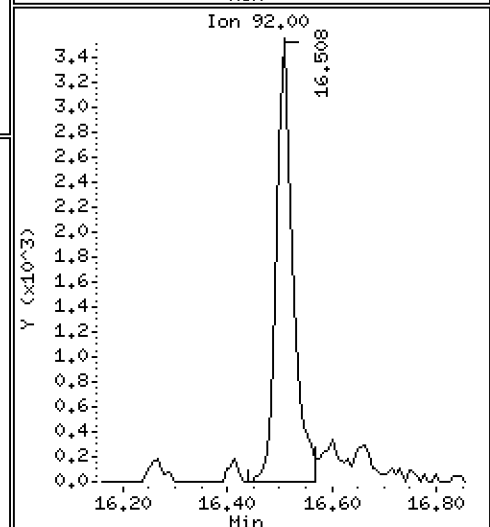
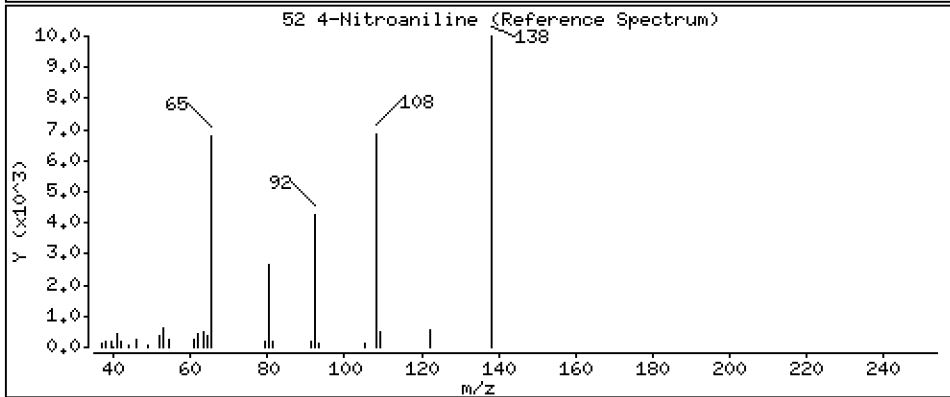
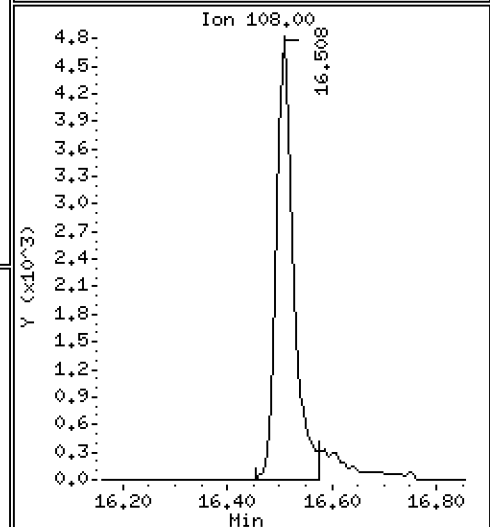
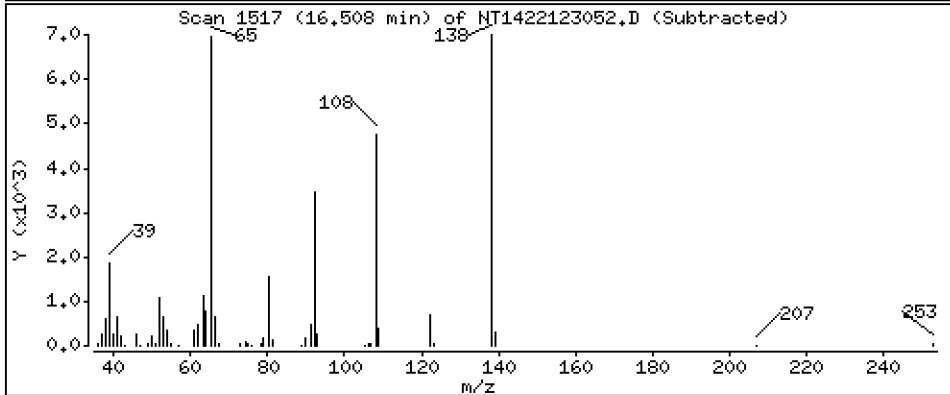
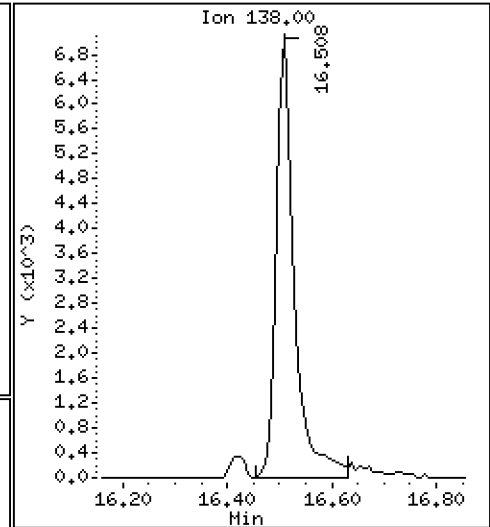
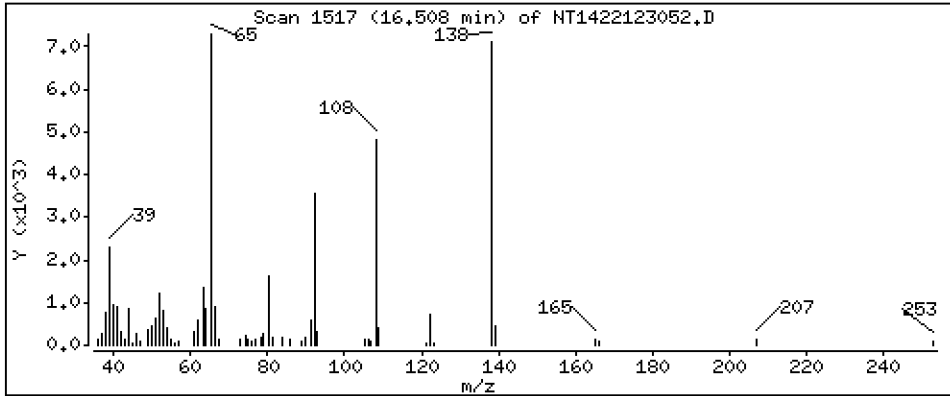
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,7926 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

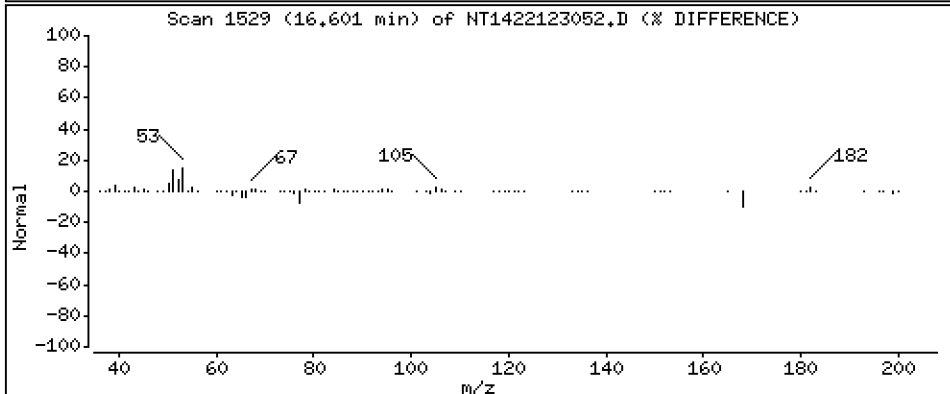
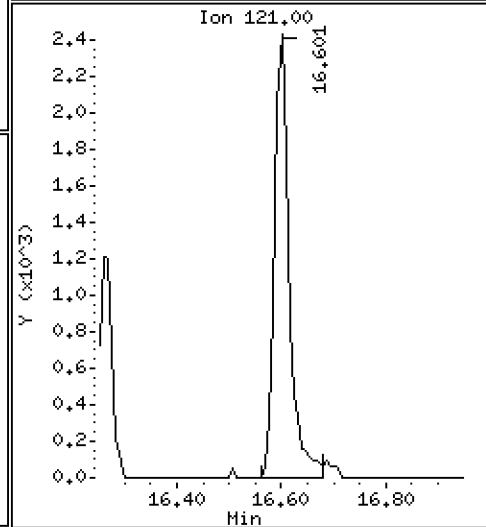
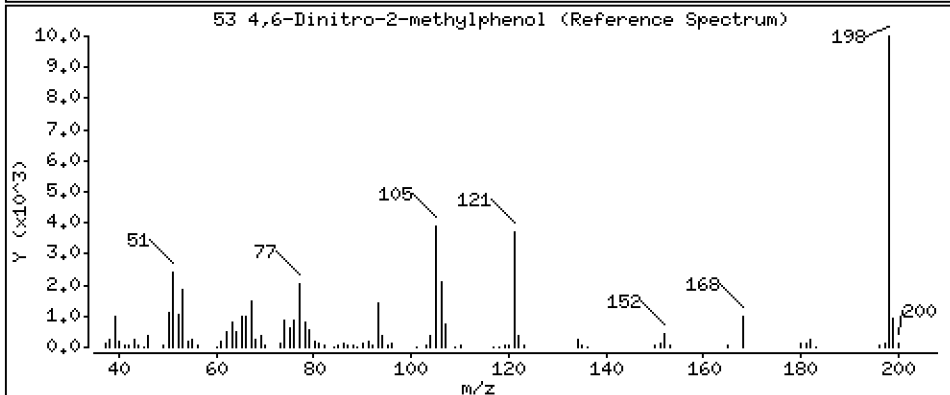
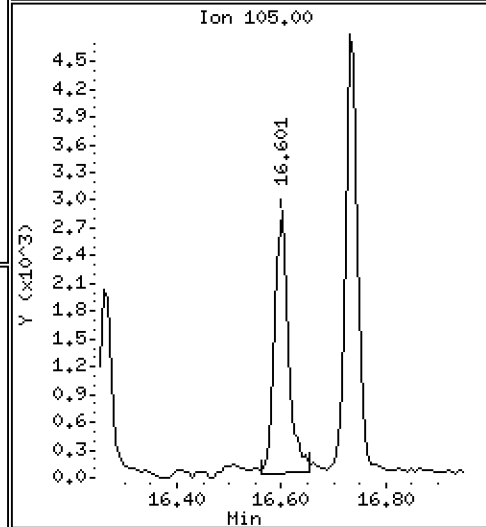
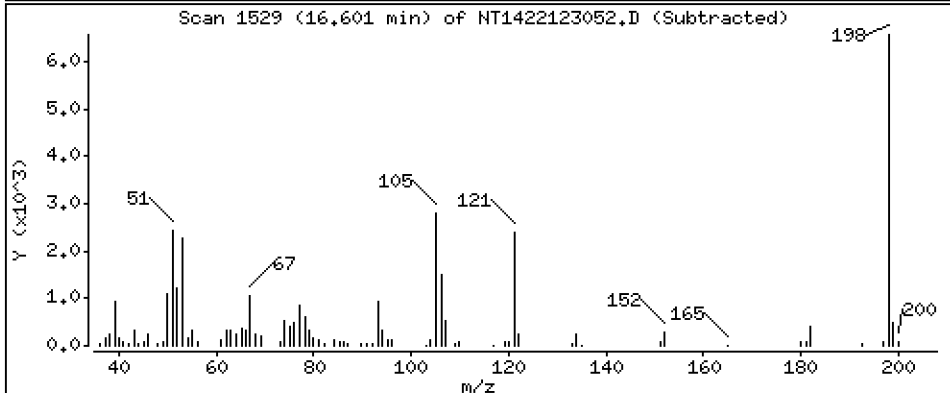
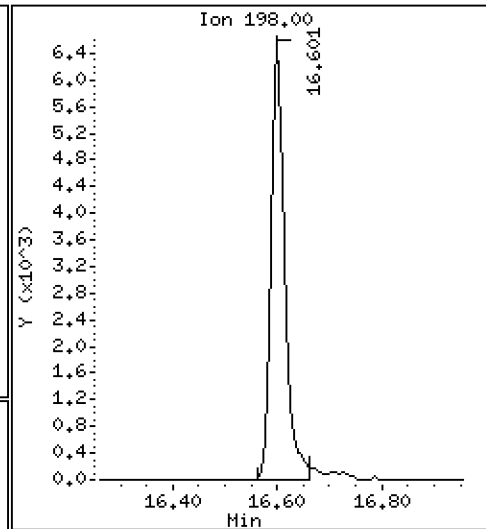
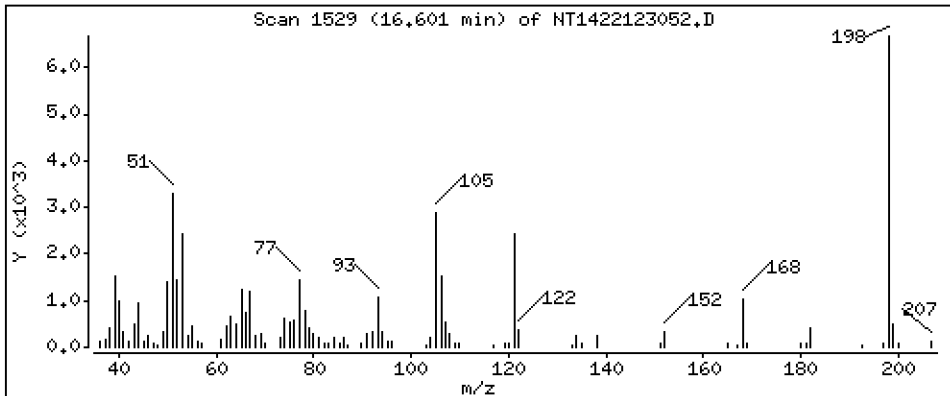
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,7566 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

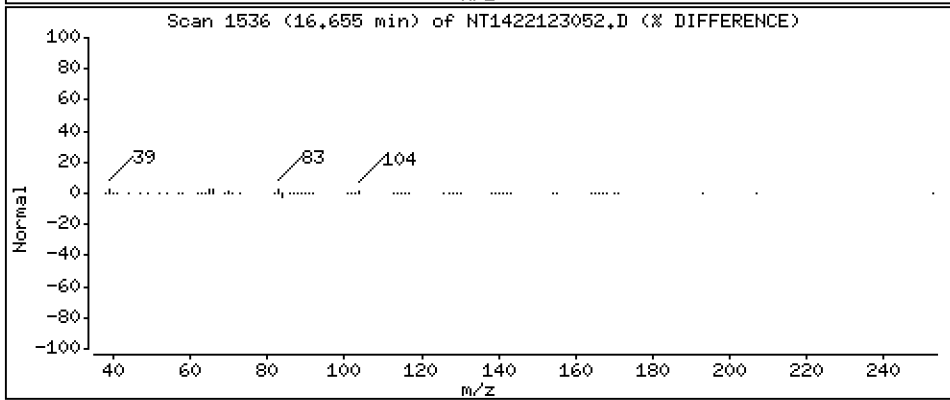
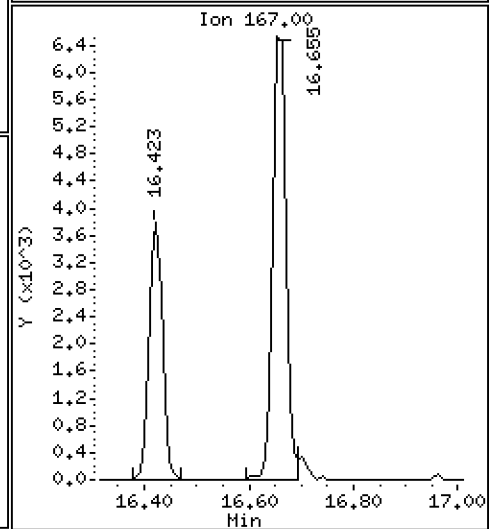
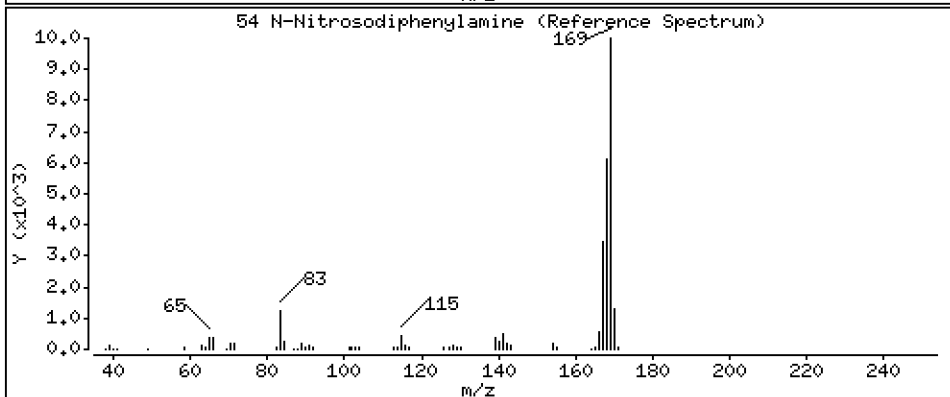
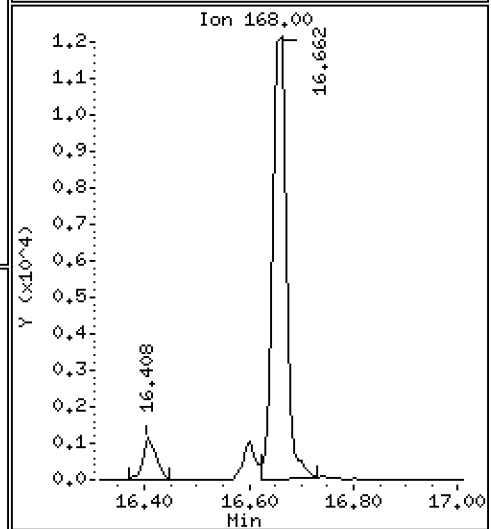
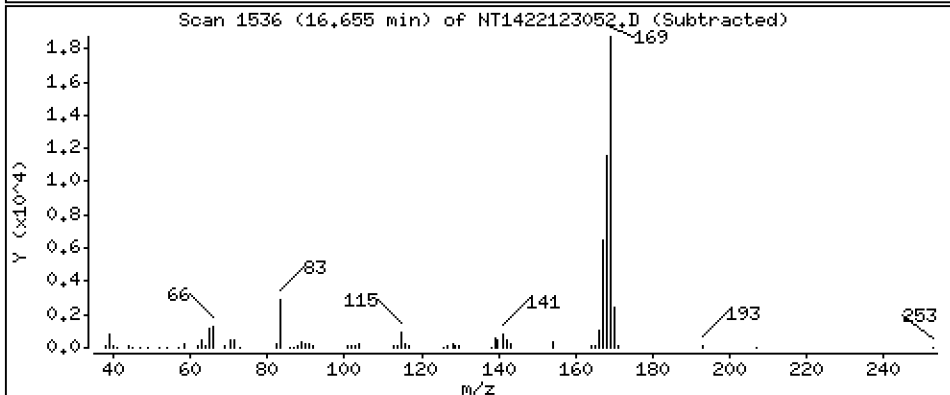
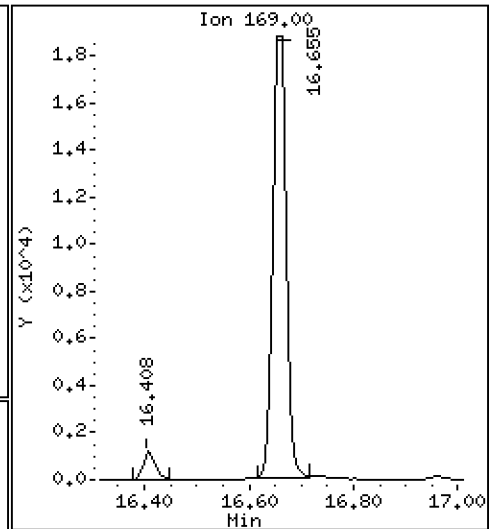
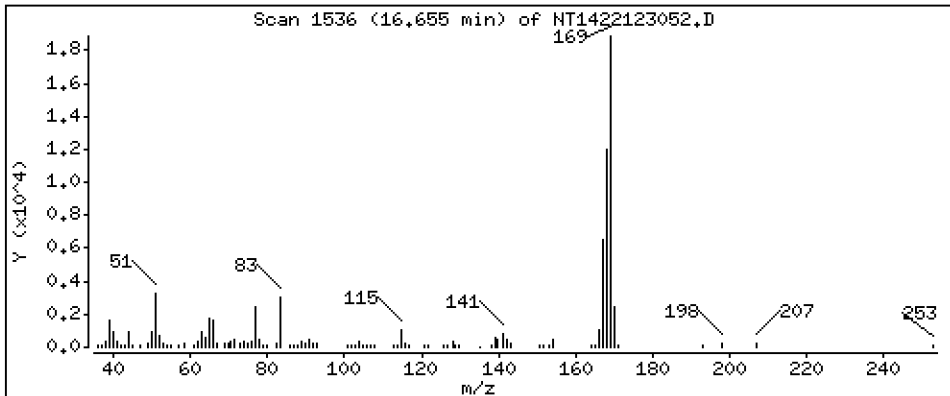
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,5113 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

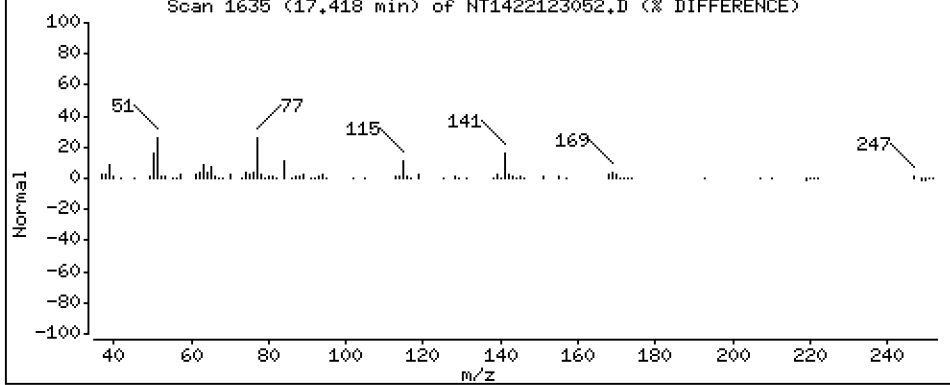
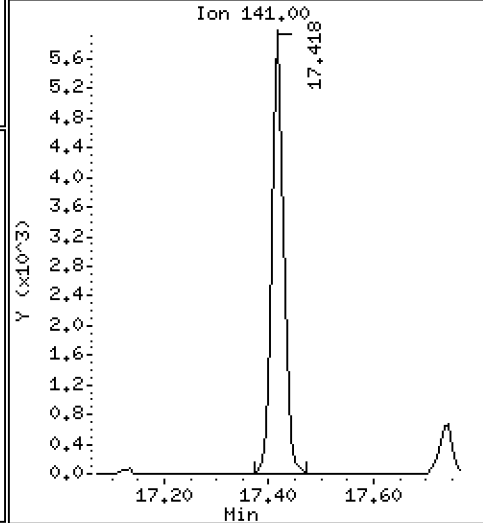
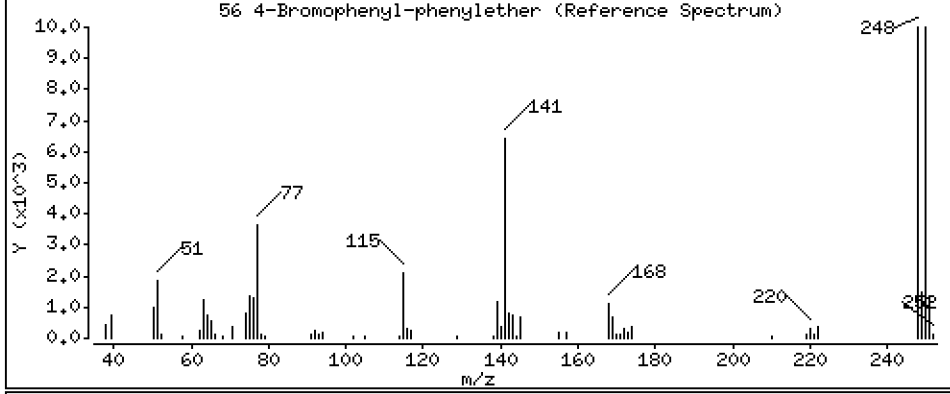
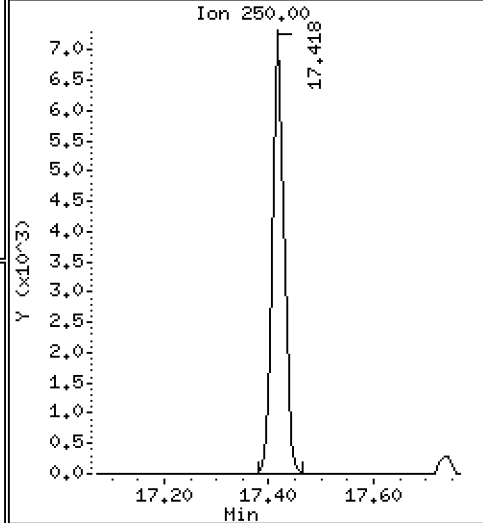
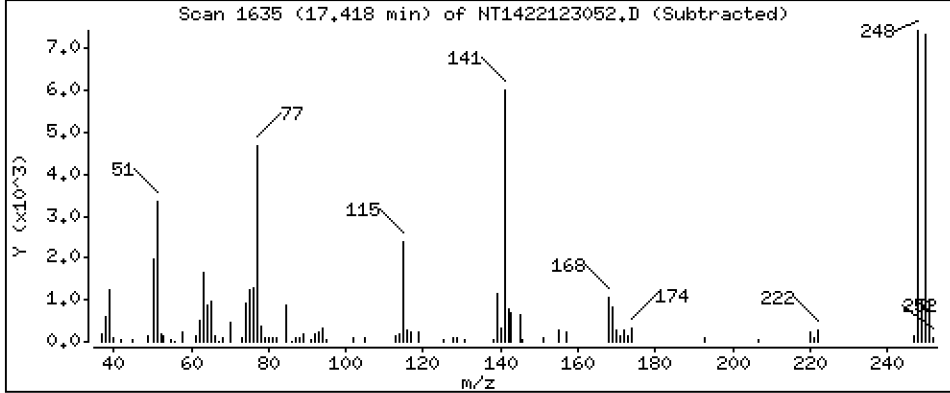
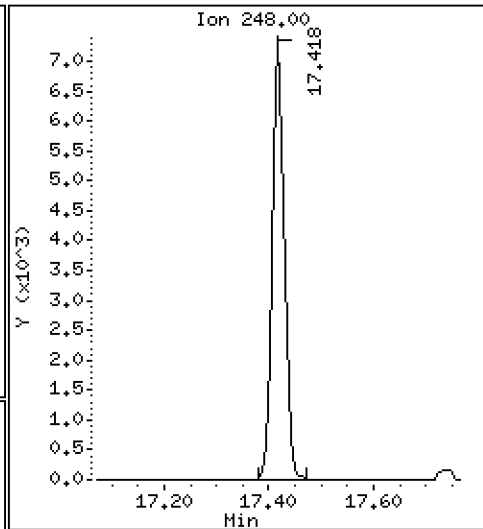
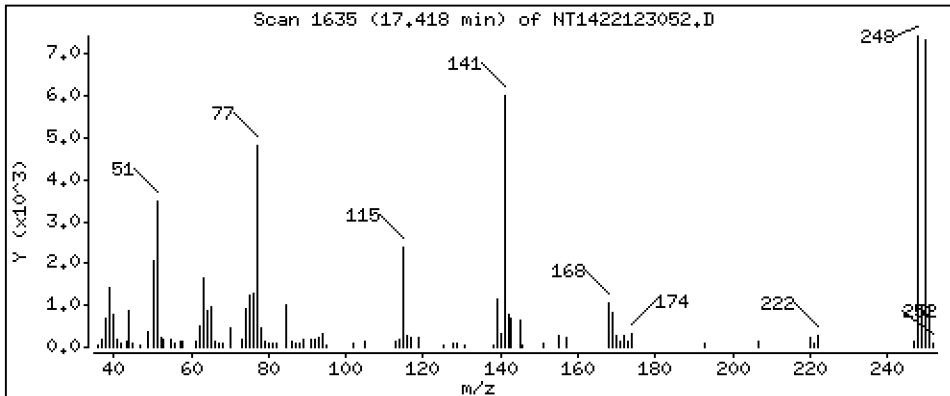
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,4903 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

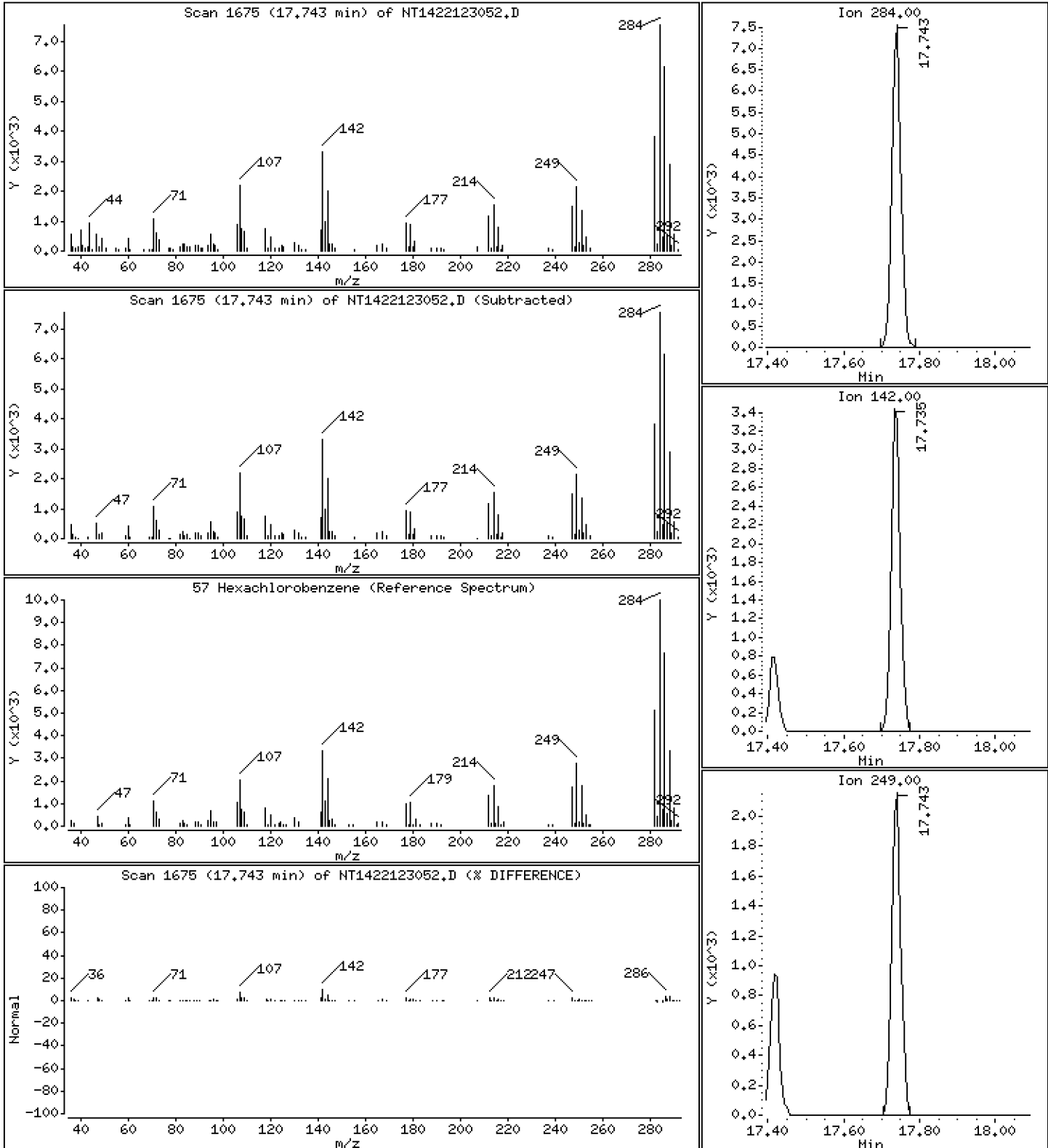
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

57 Hexachlorobenzene

Concentration: 0,4900 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

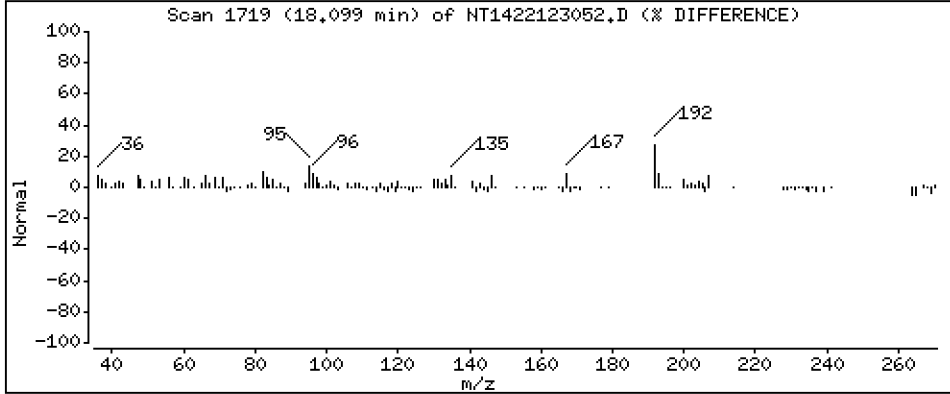
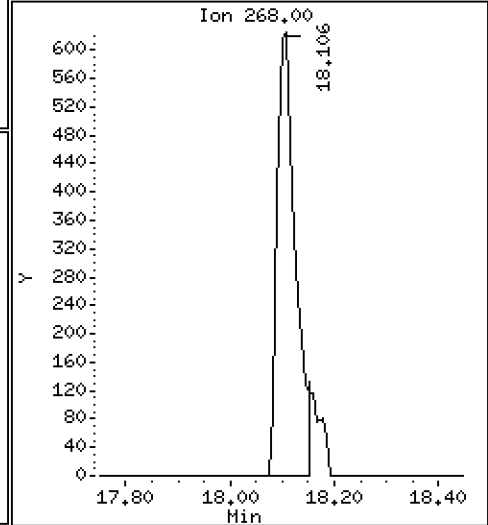
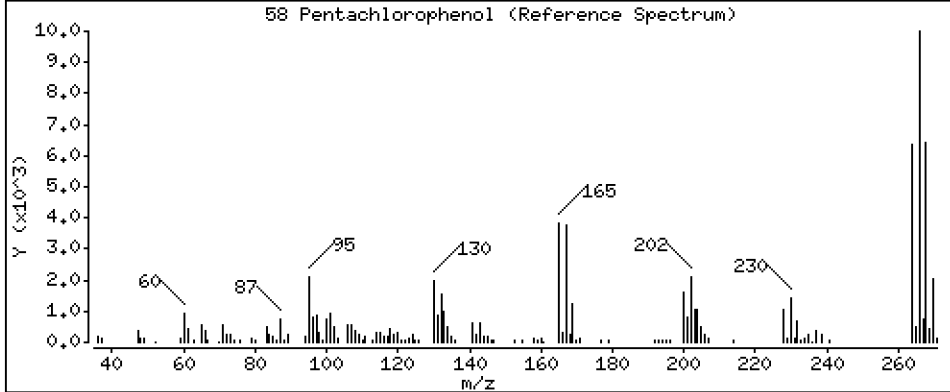
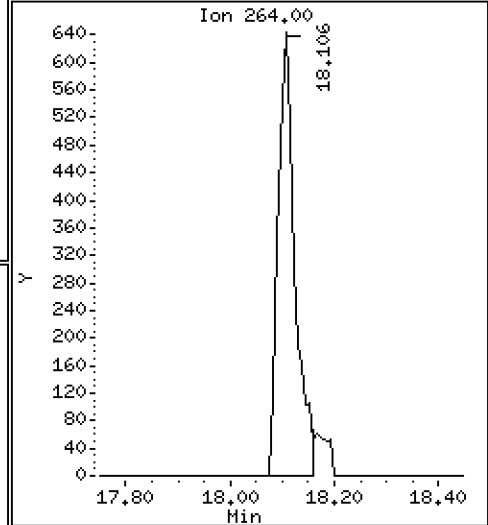
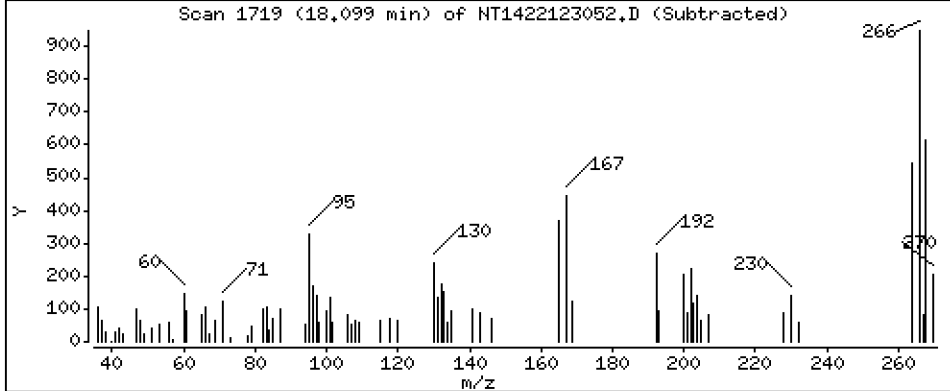
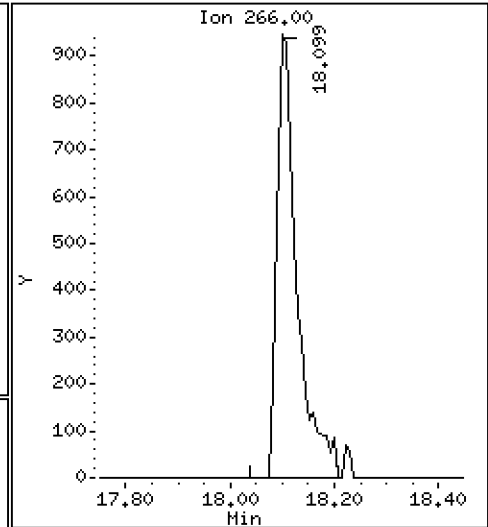
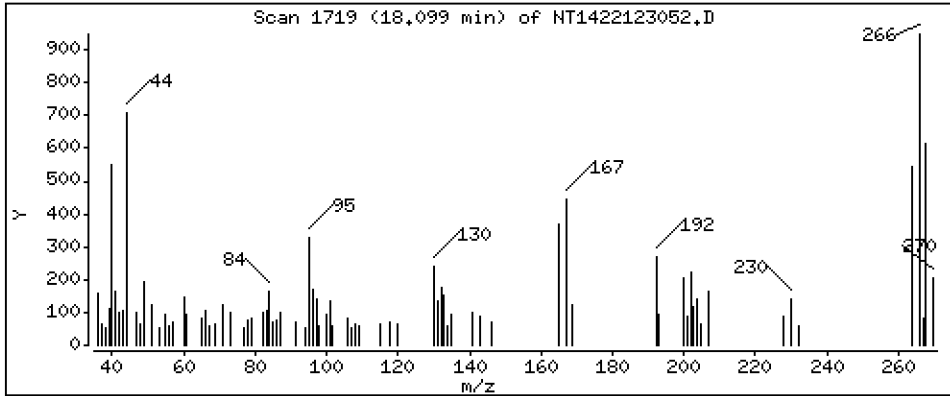
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,2250 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

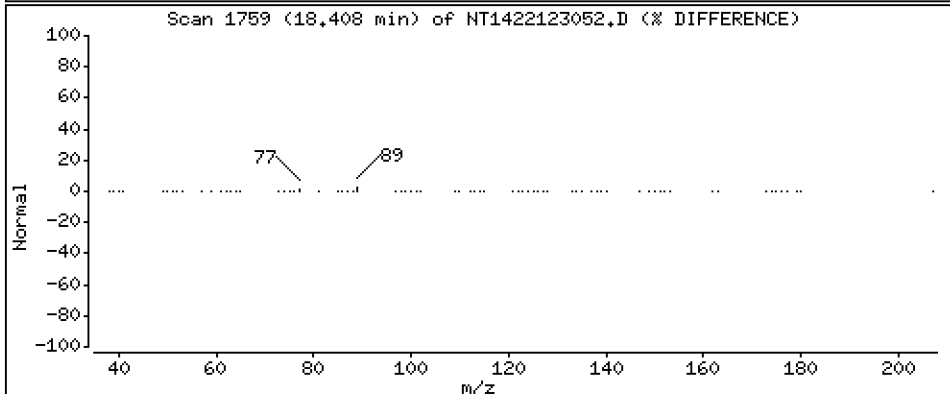
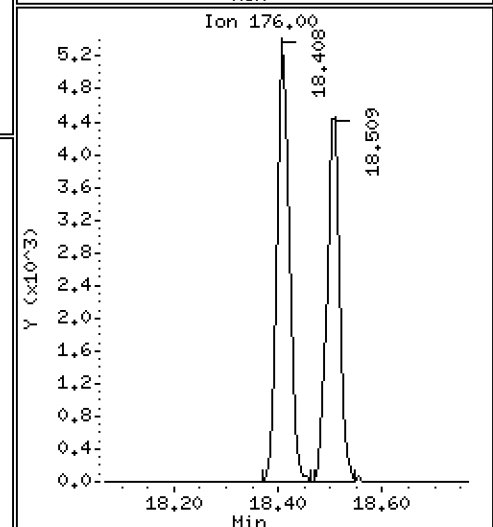
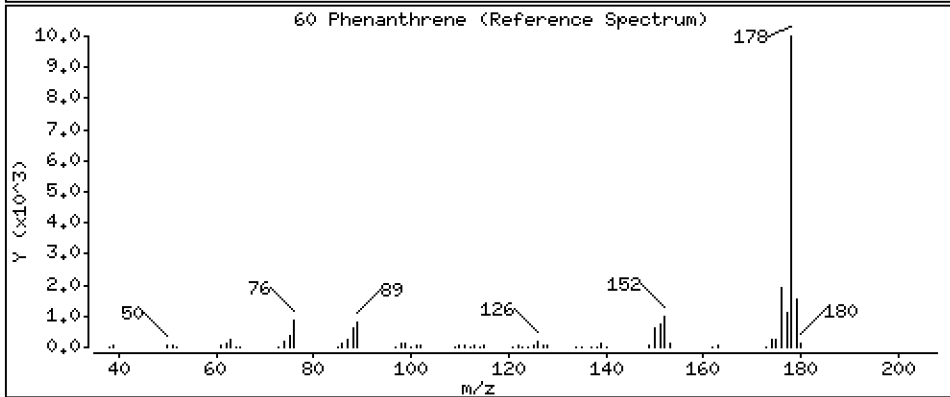
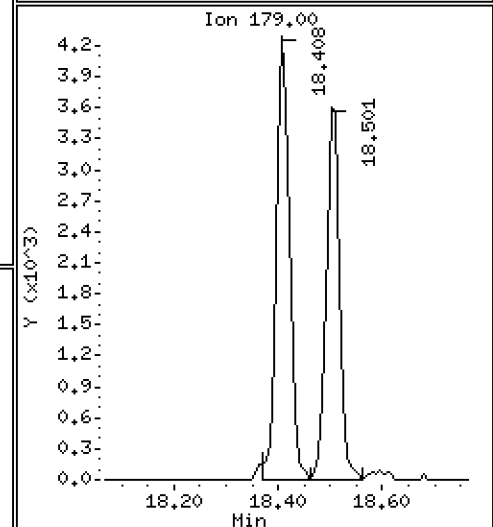
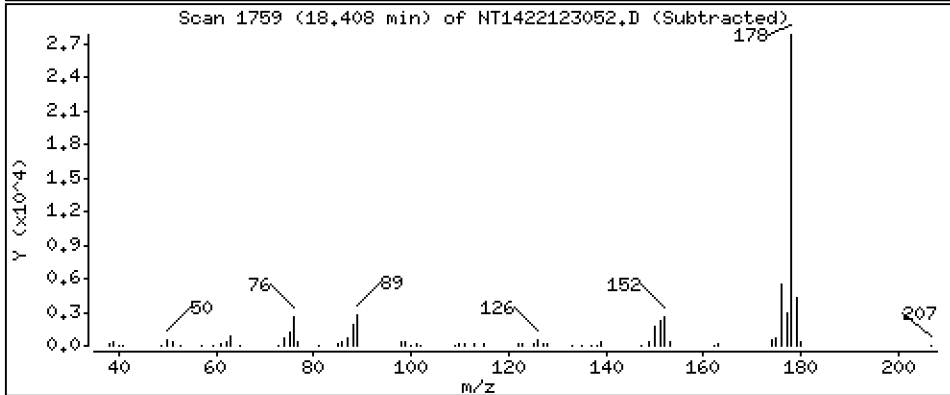
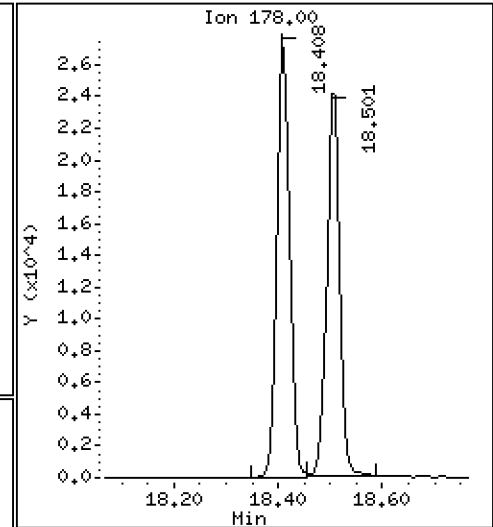
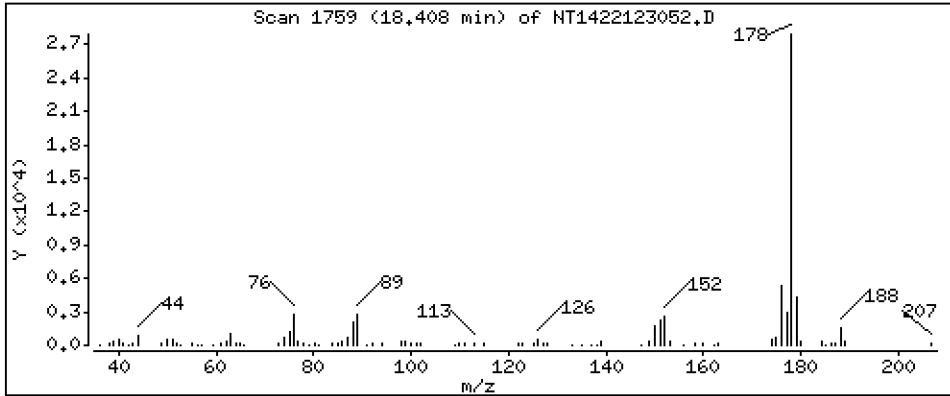
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,4886 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

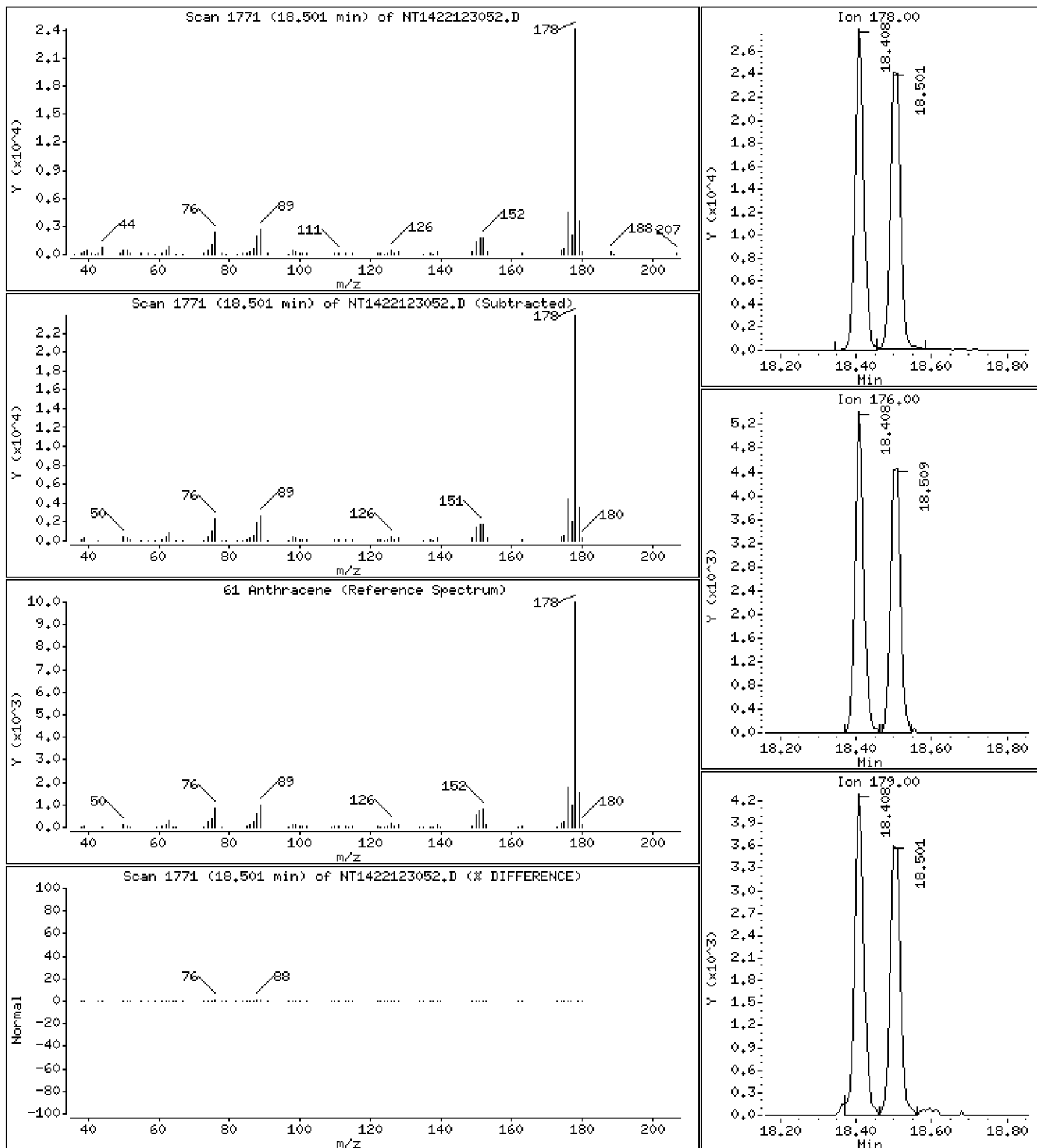
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,4683 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

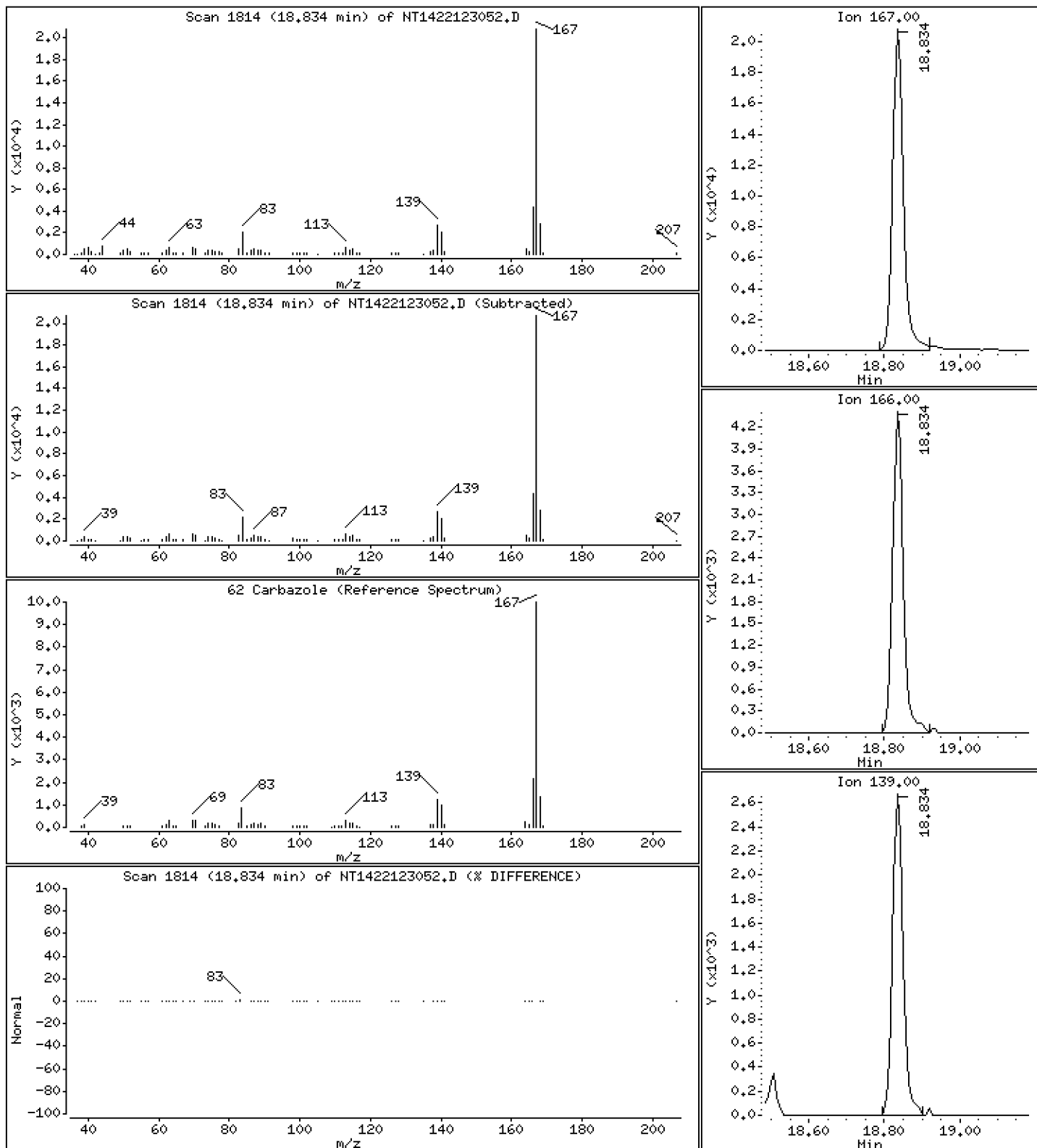
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4608 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

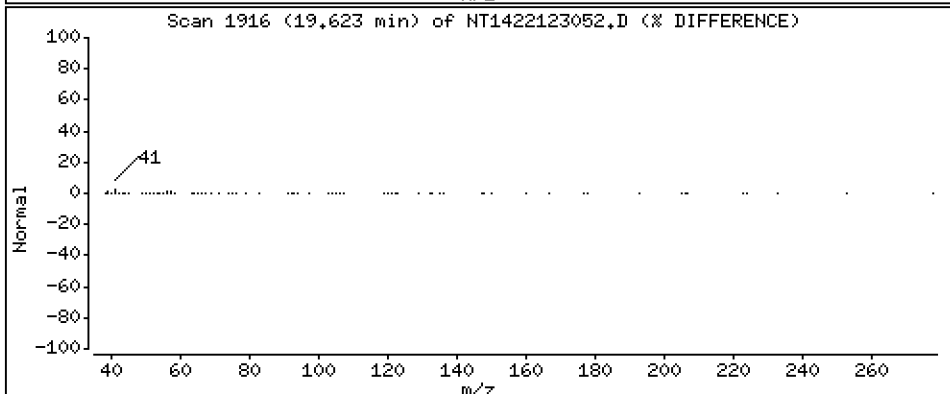
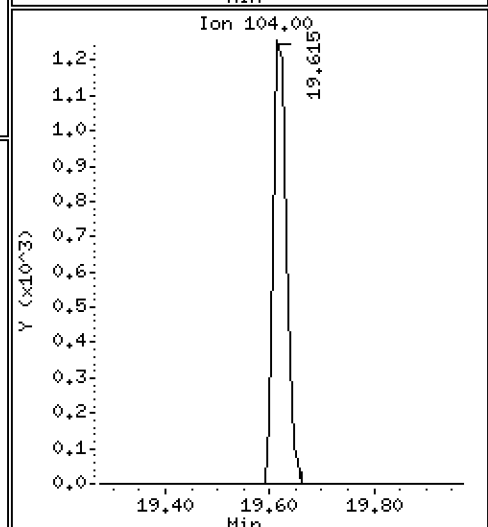
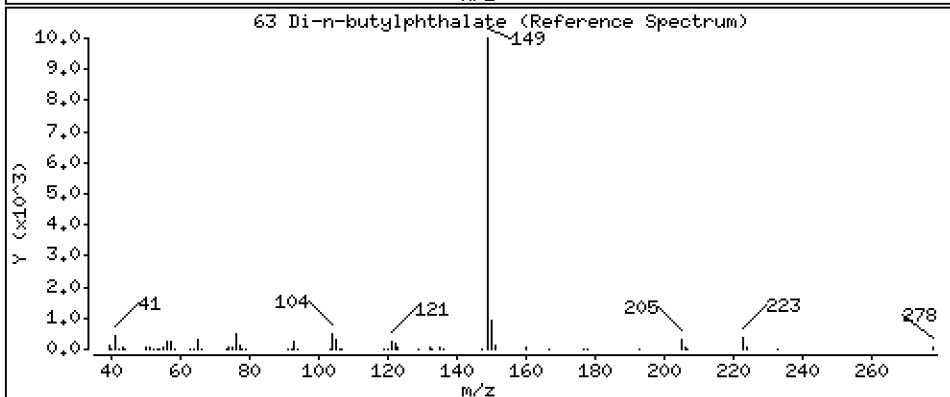
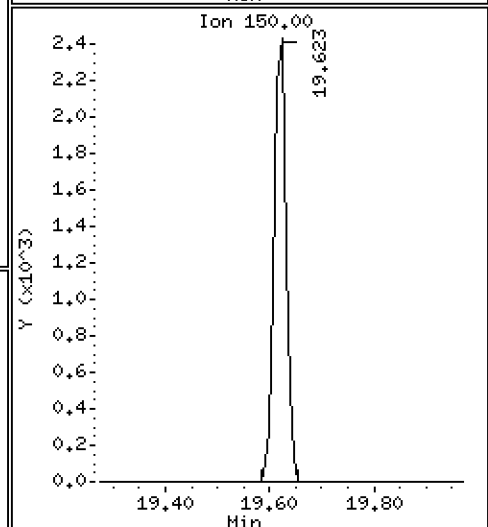
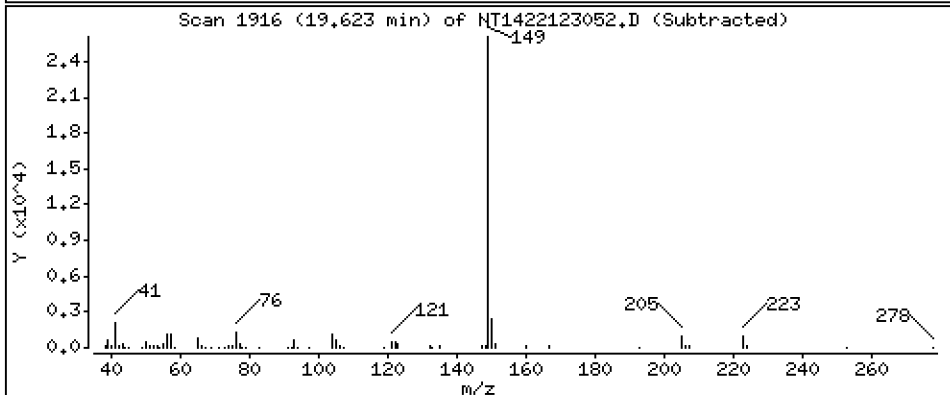
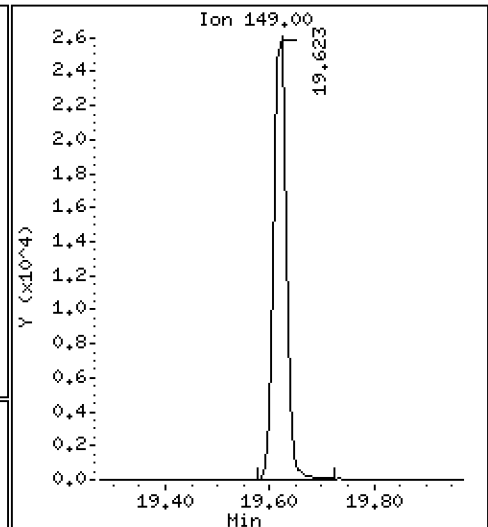
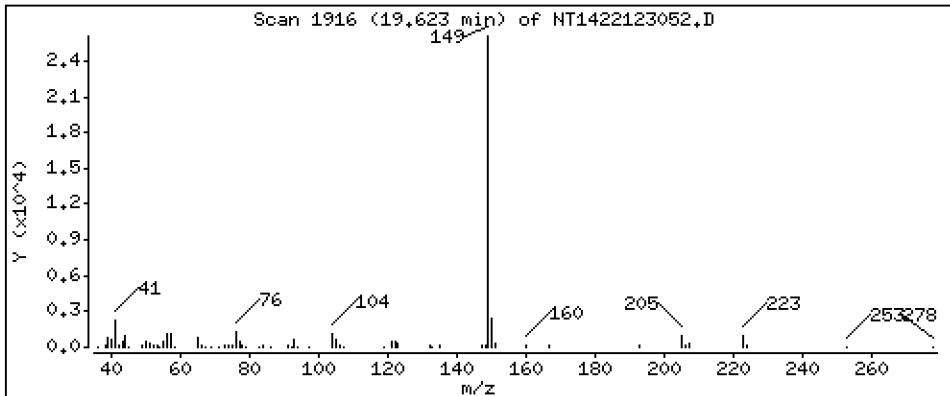
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4286 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

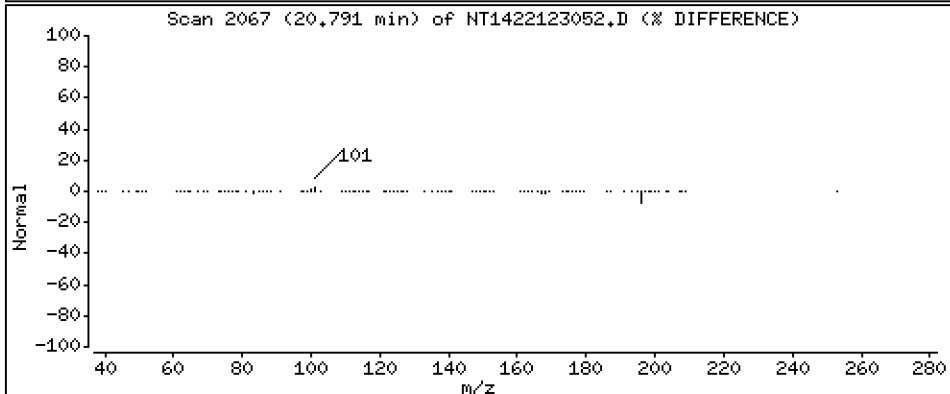
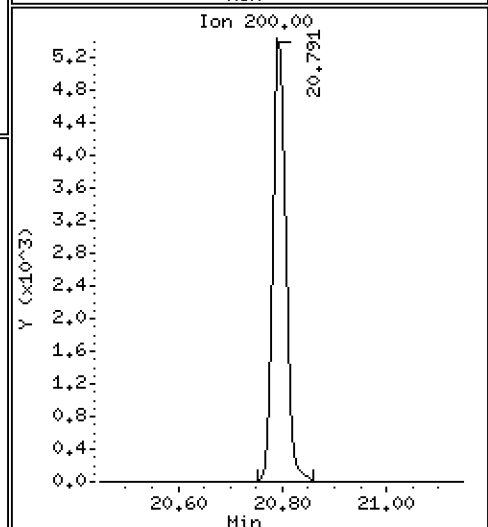
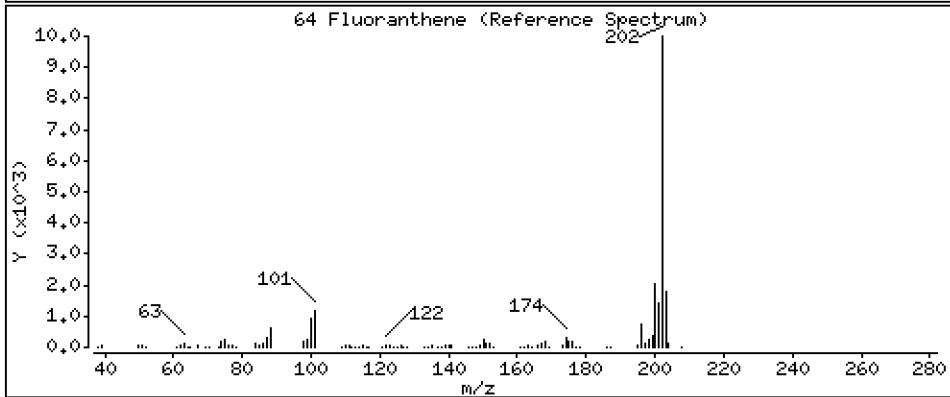
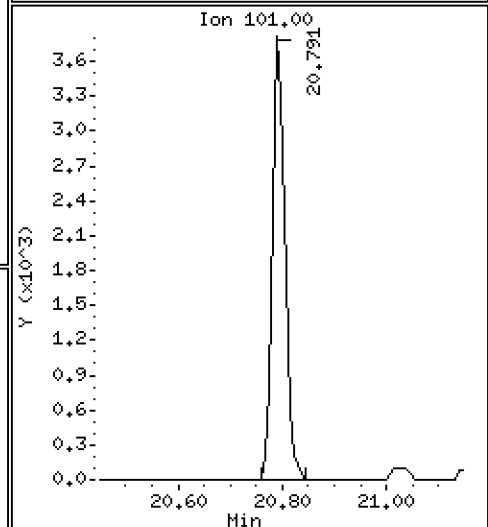
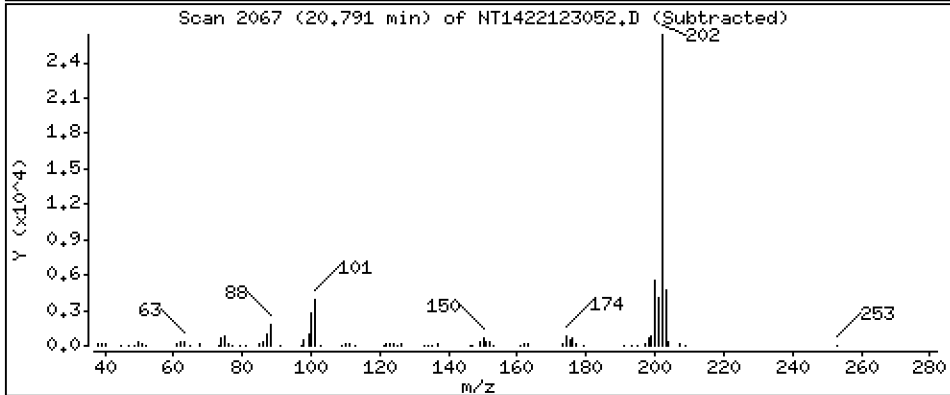
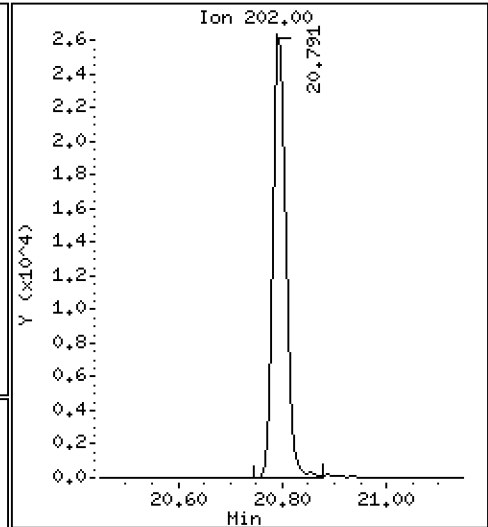
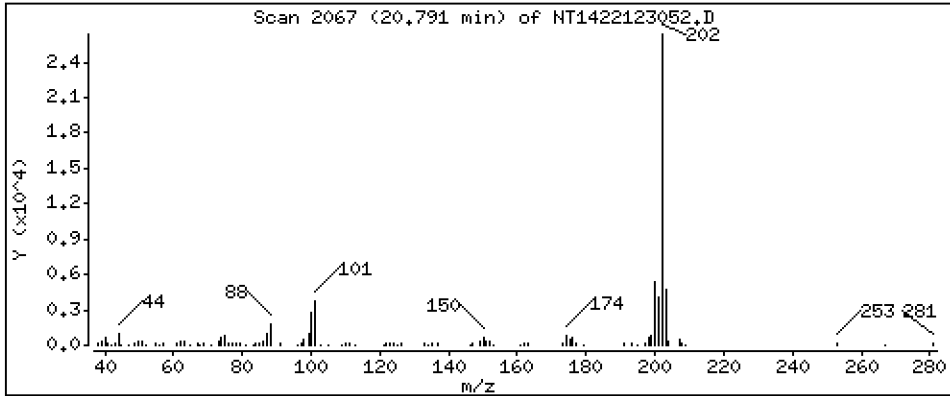
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4643 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

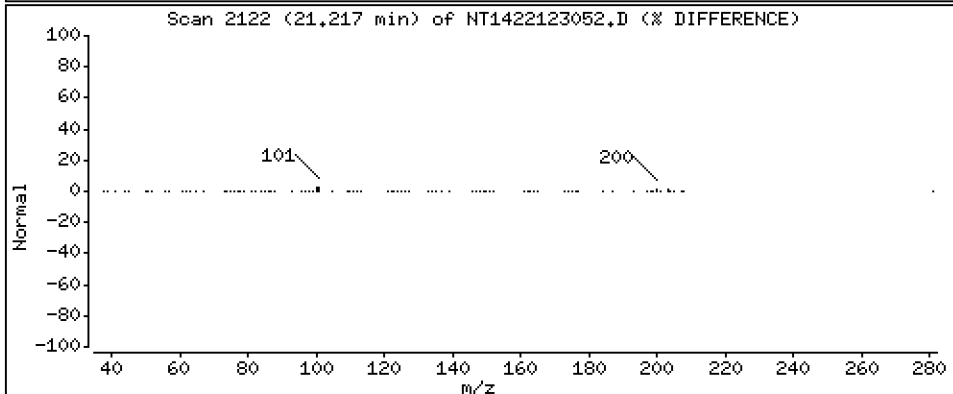
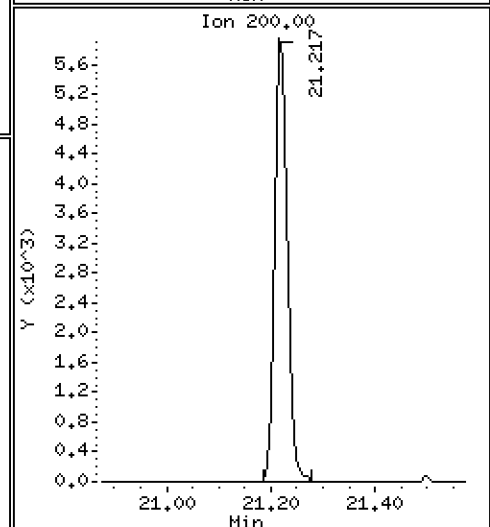
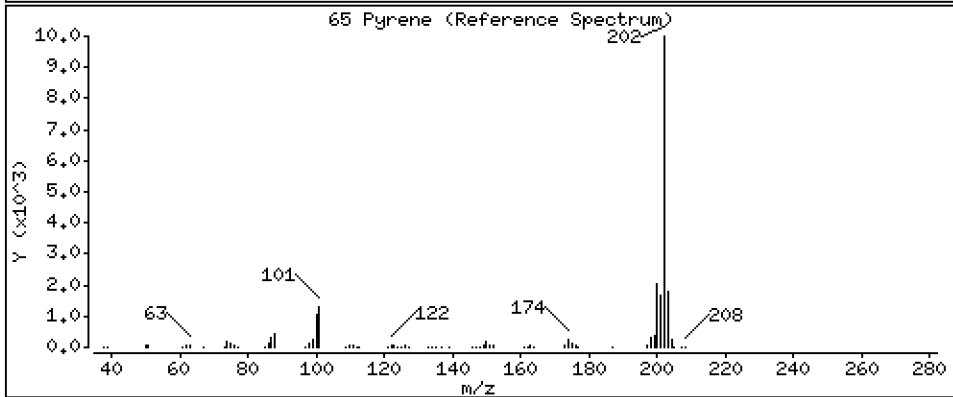
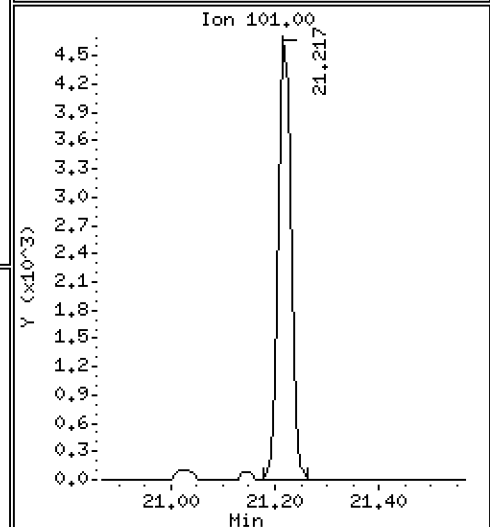
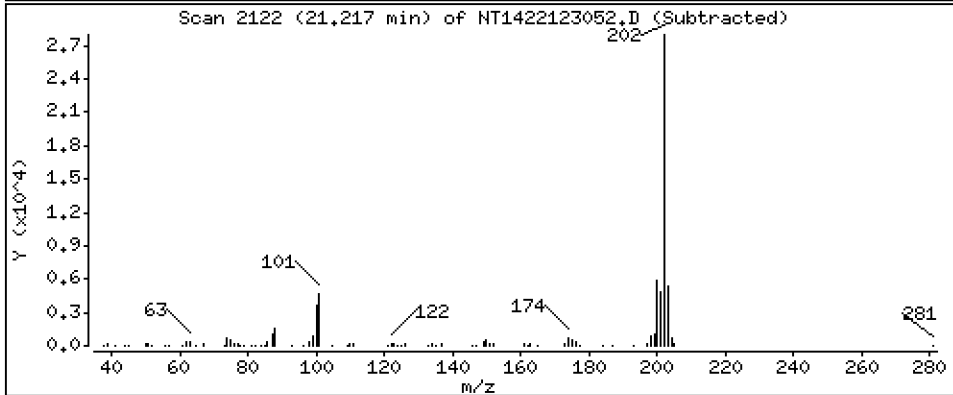
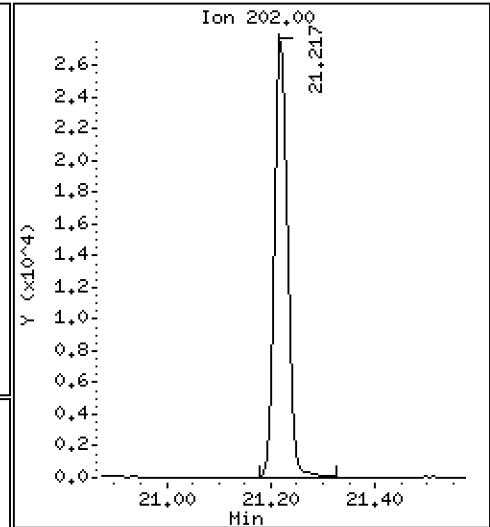
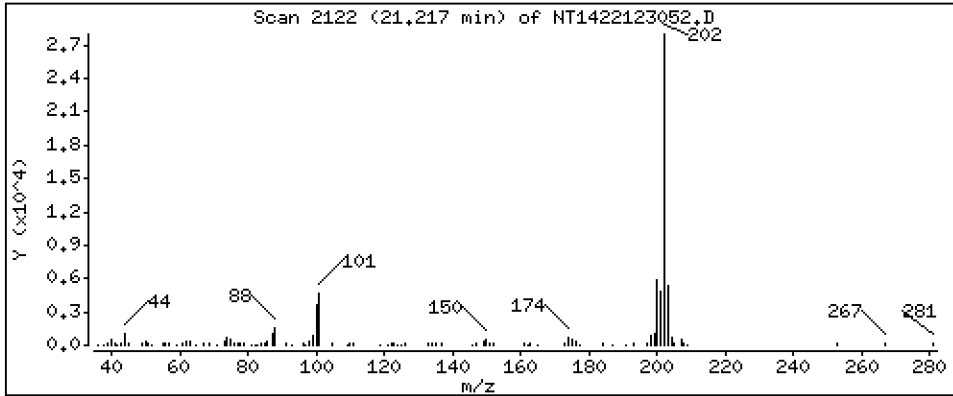
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4679 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

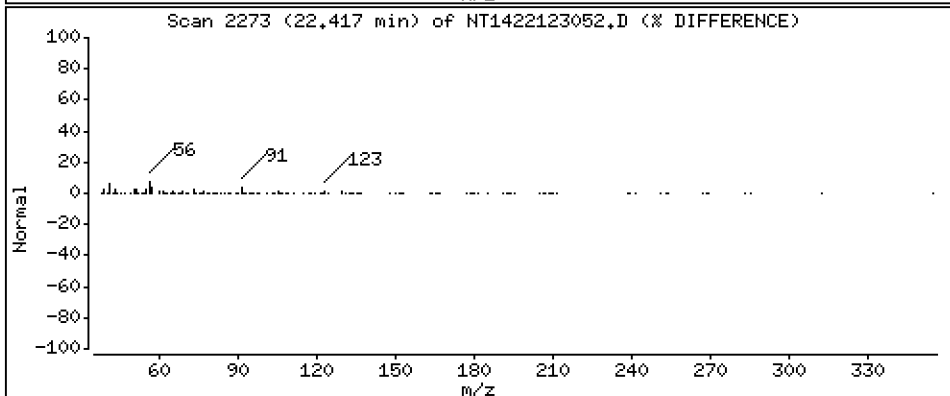
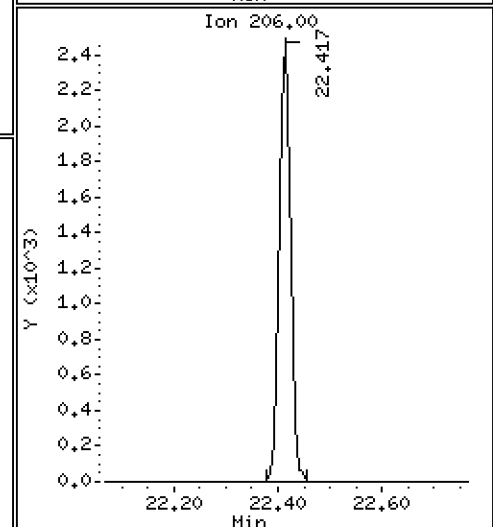
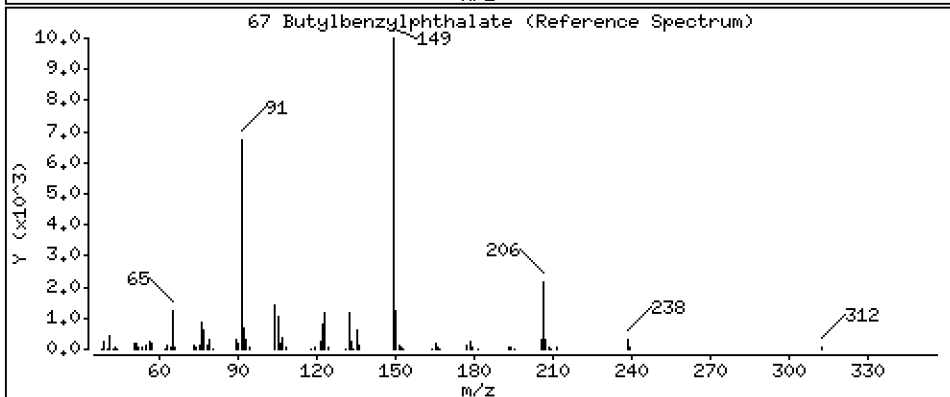
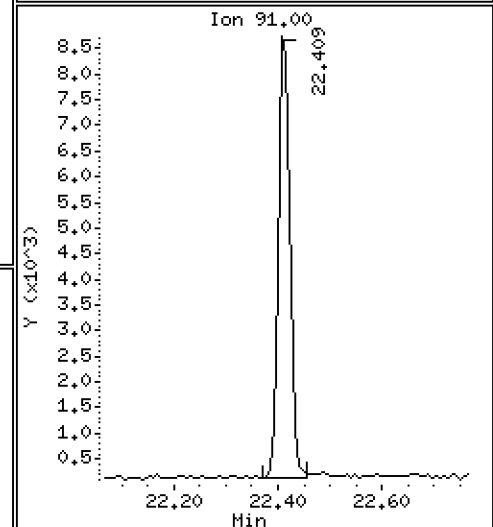
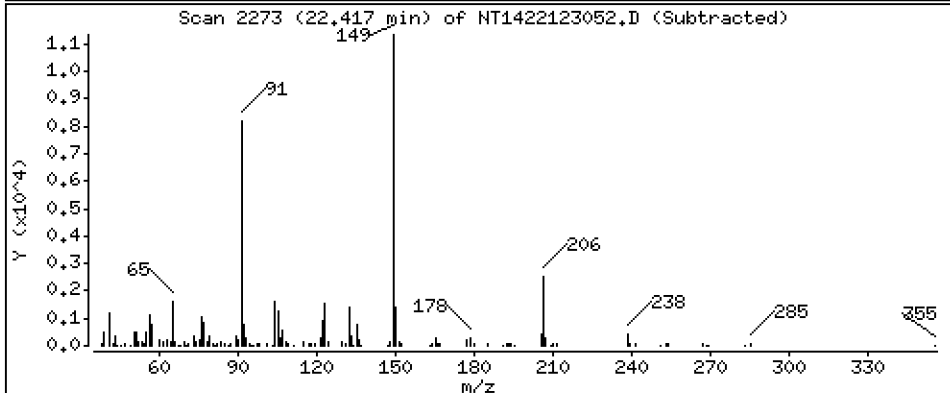
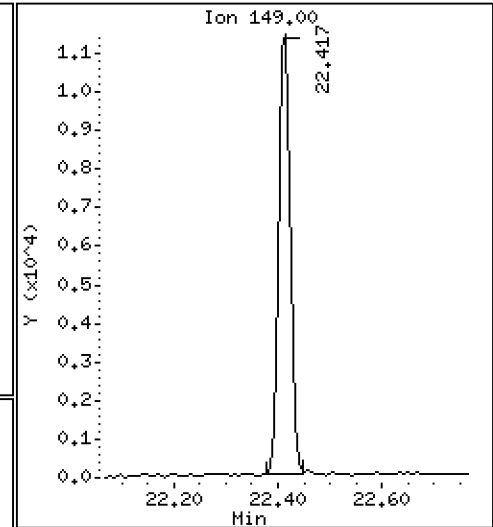
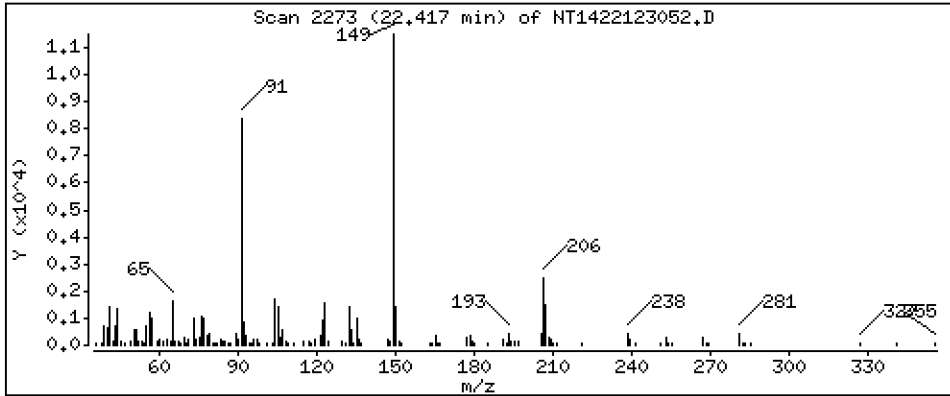
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,4436 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

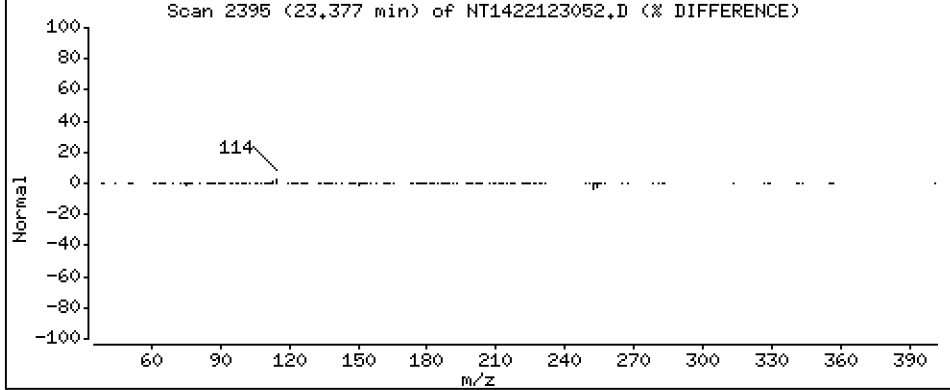
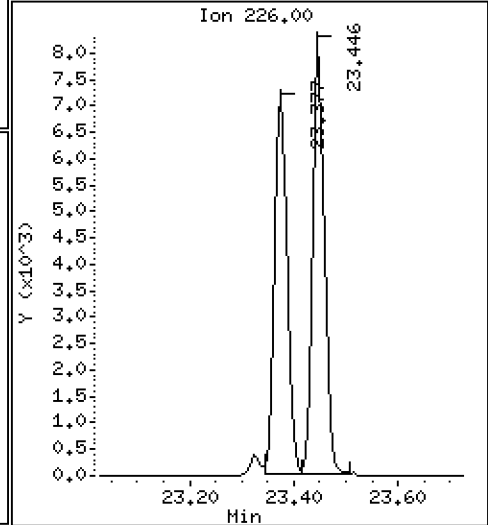
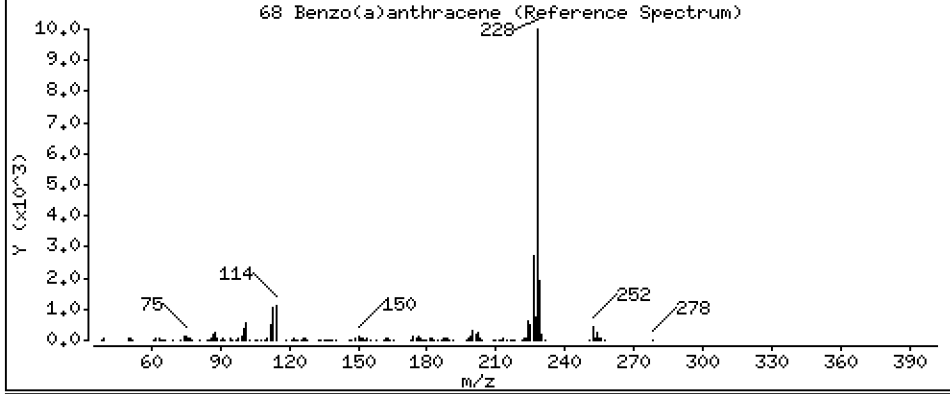
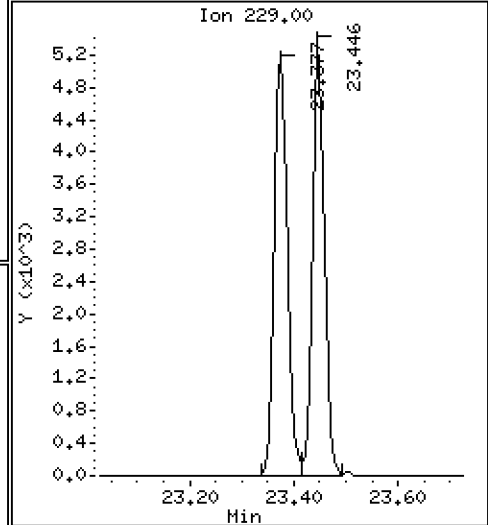
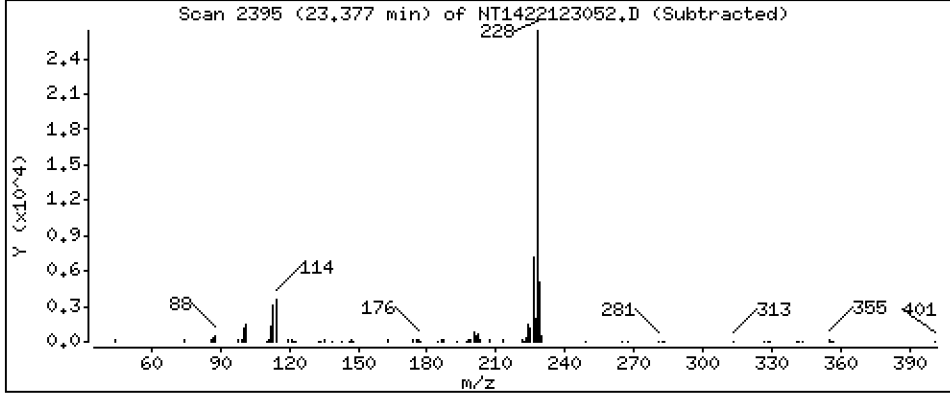
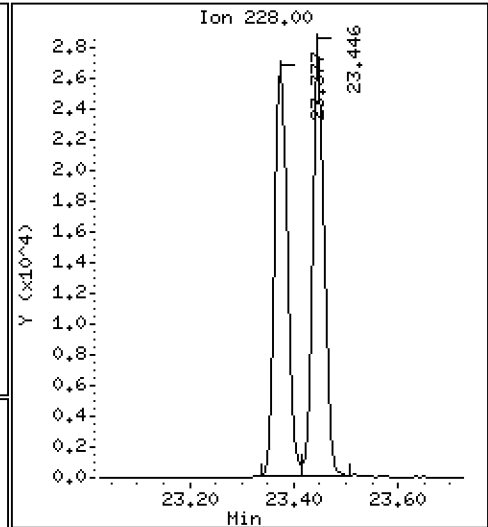
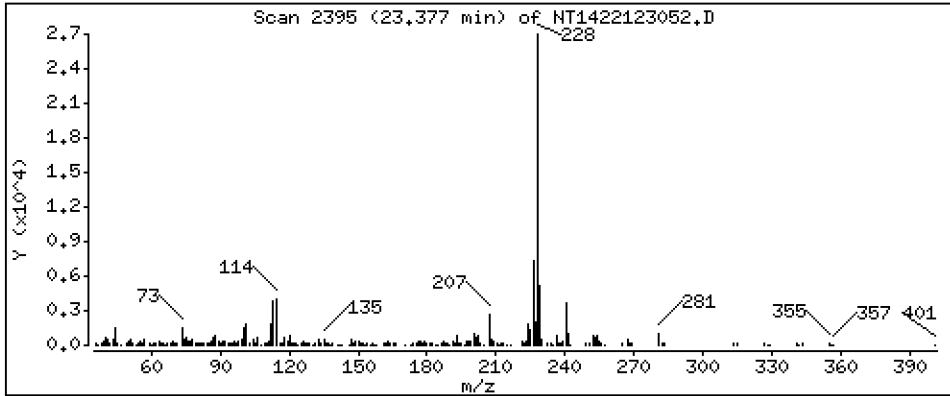
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,4849 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

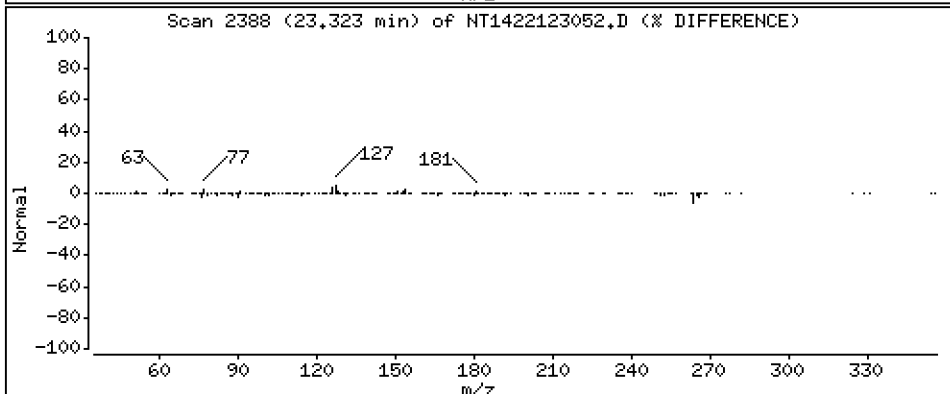
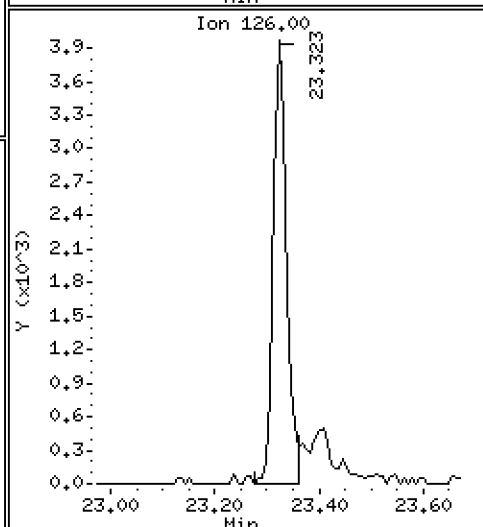
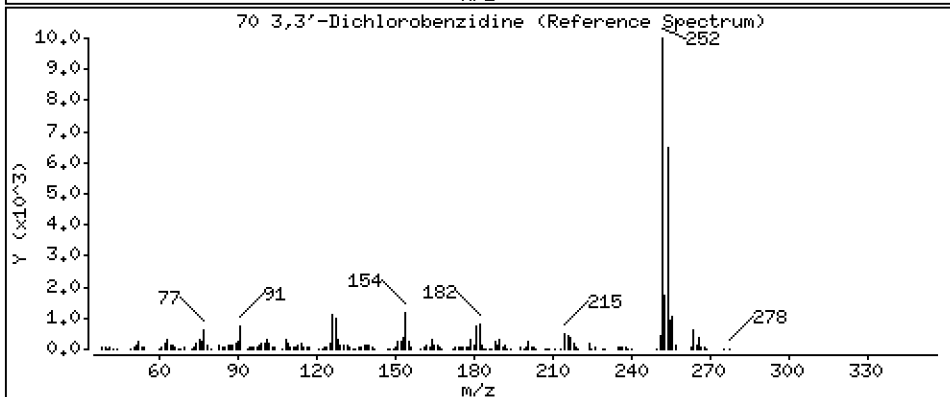
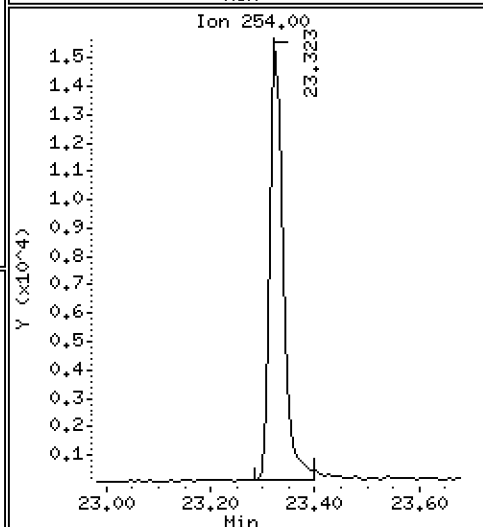
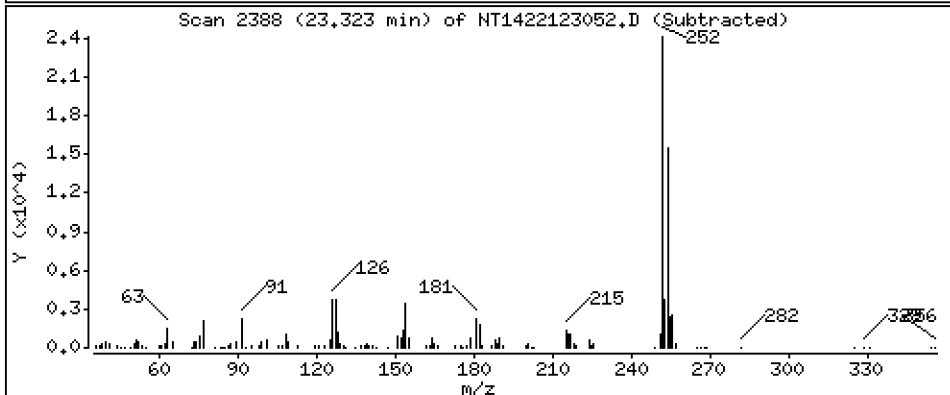
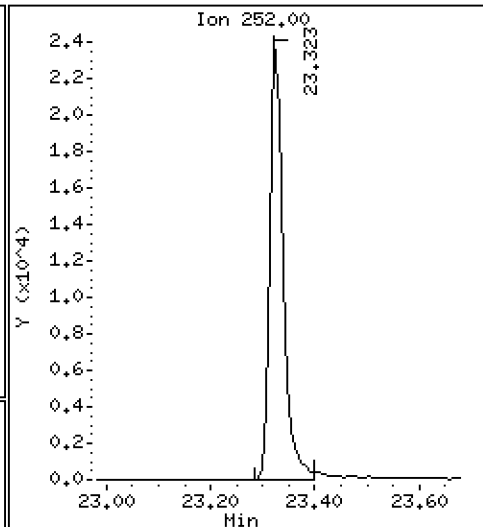
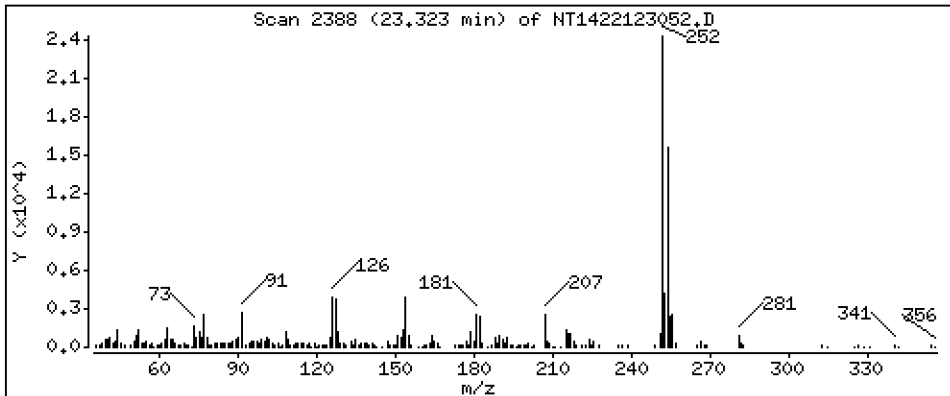
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,479 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

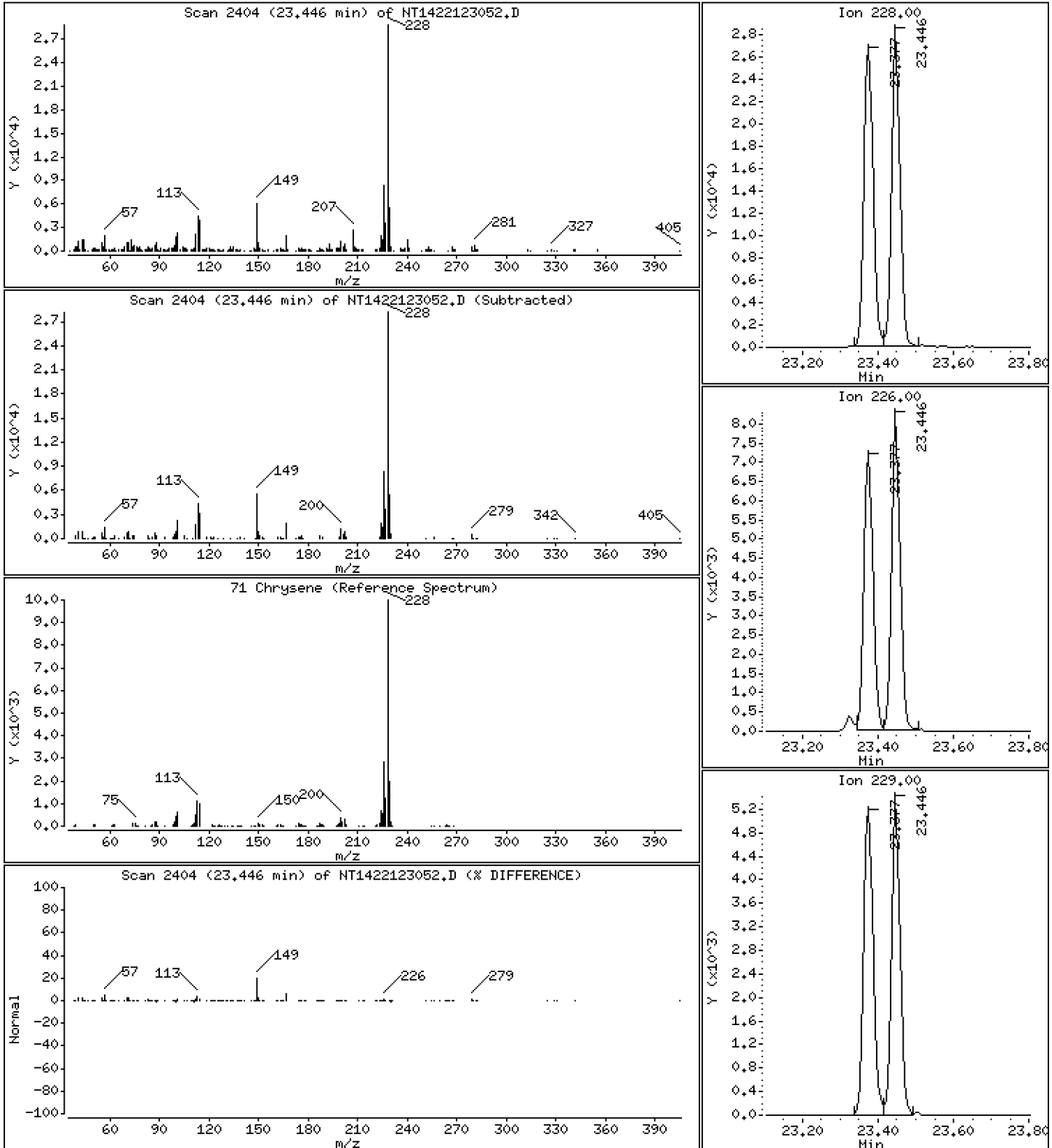
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,4899 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

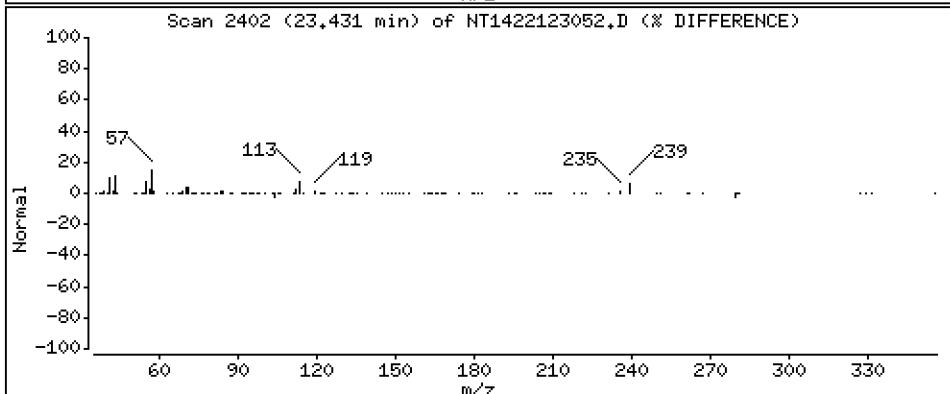
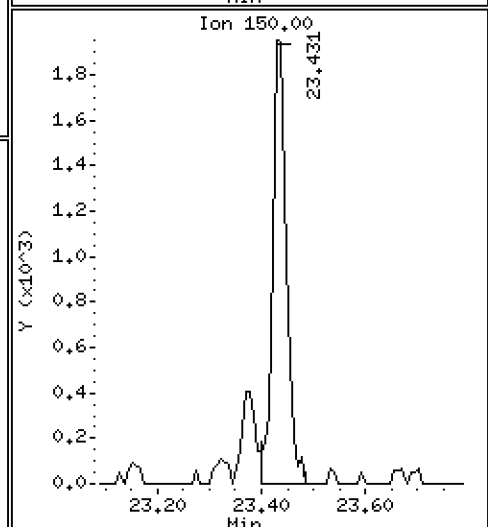
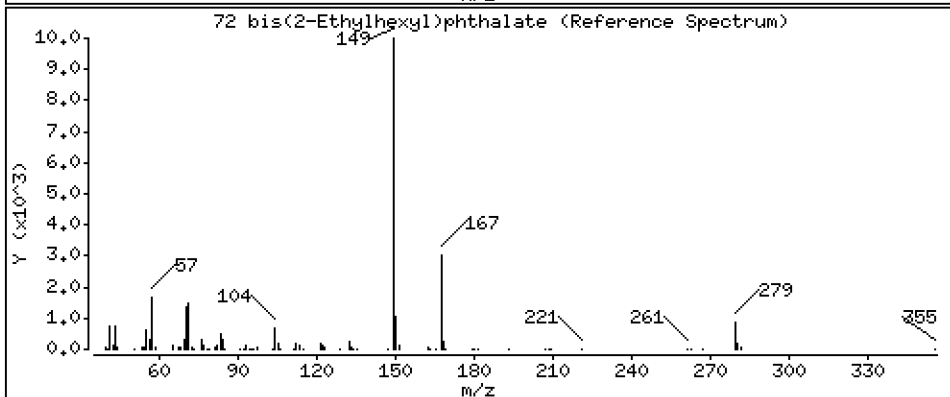
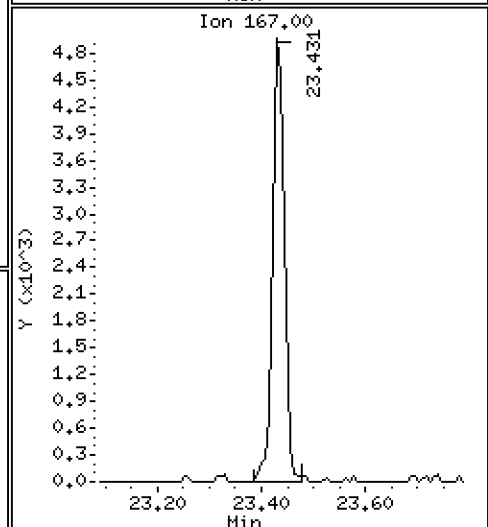
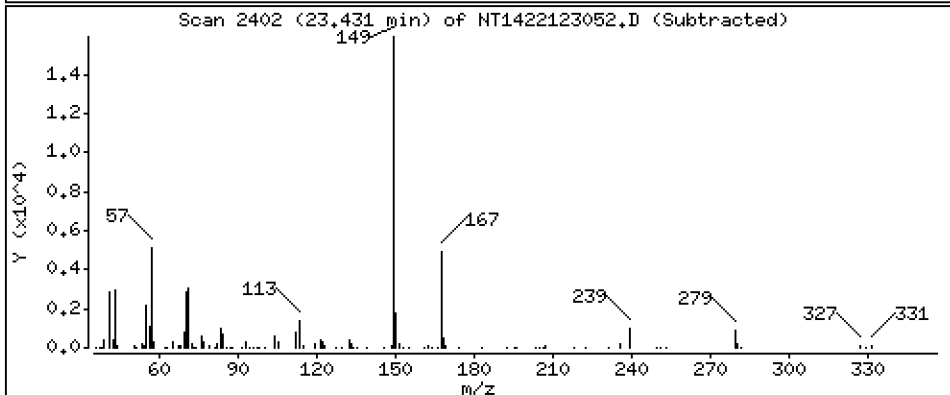
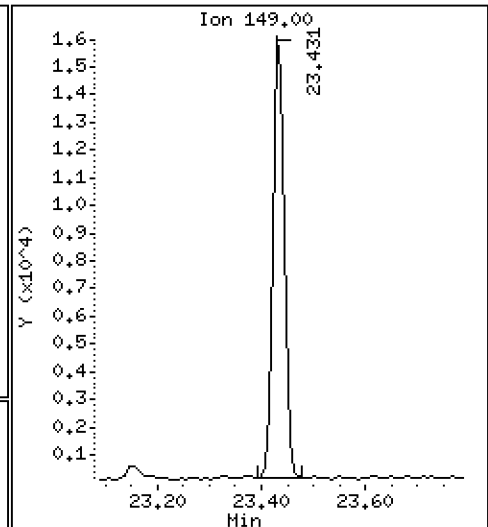
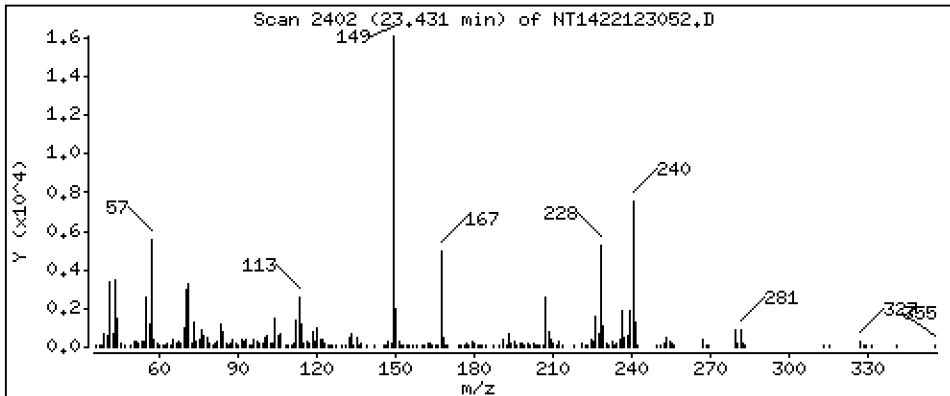
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,4704 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

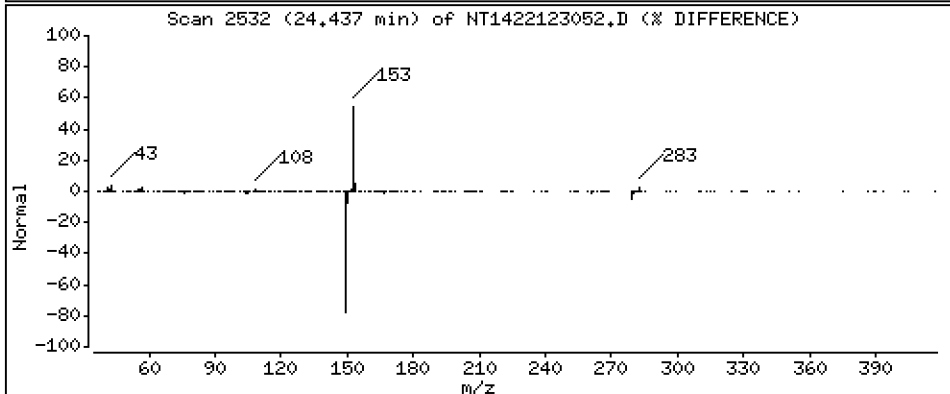
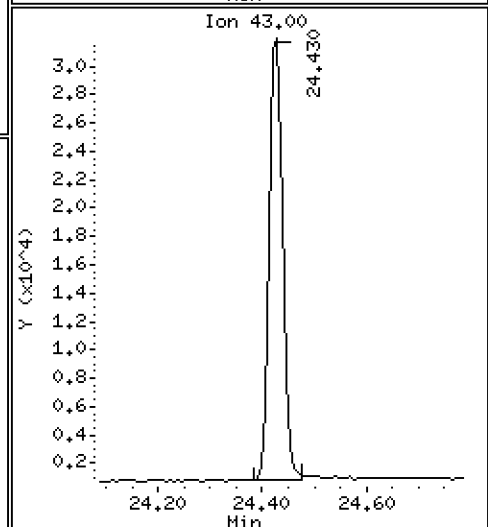
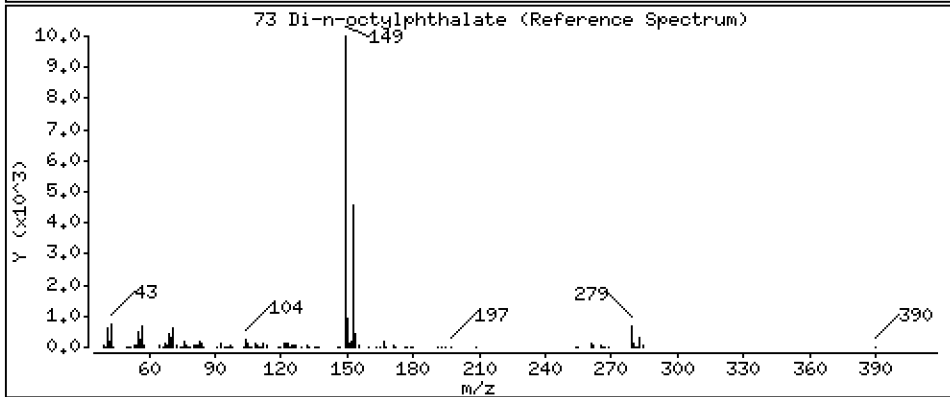
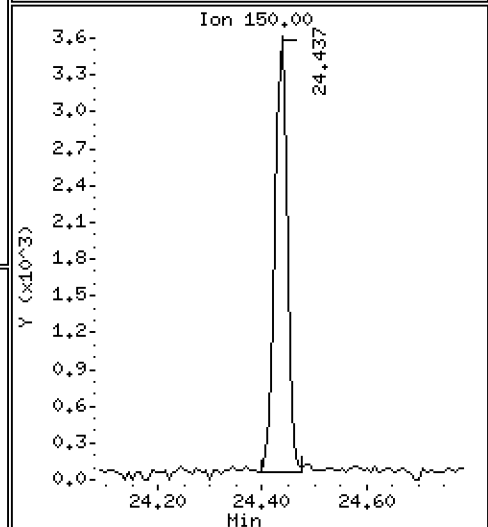
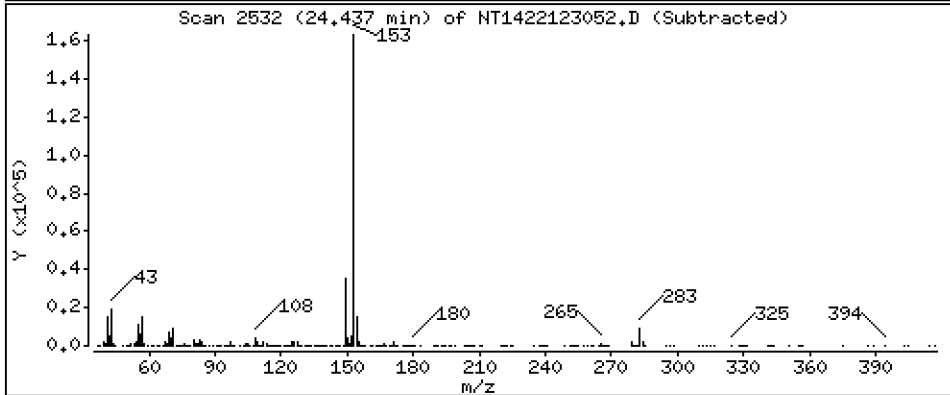
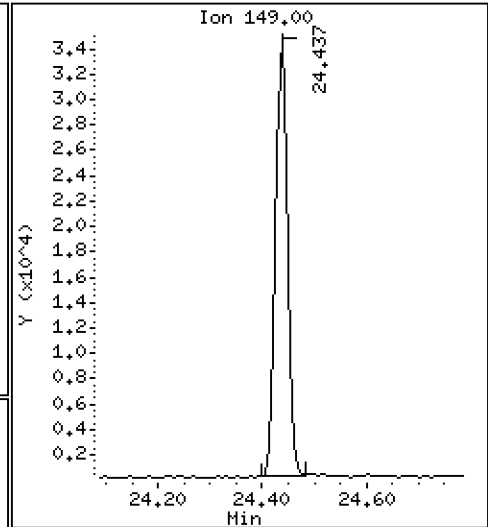
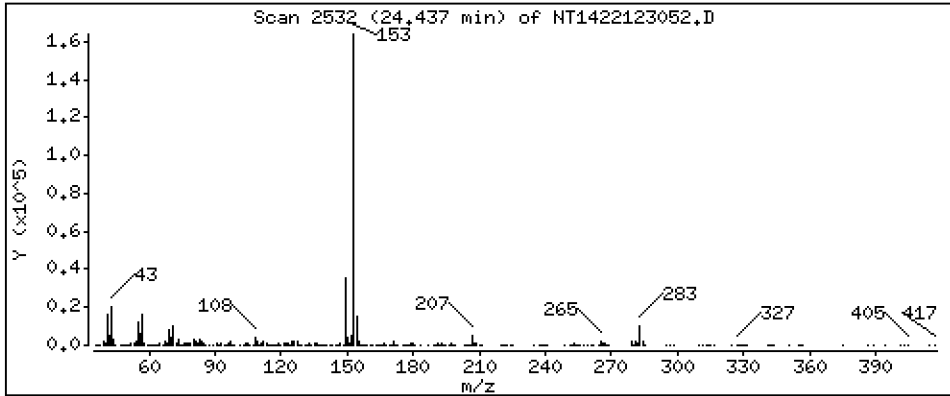
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,4879 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

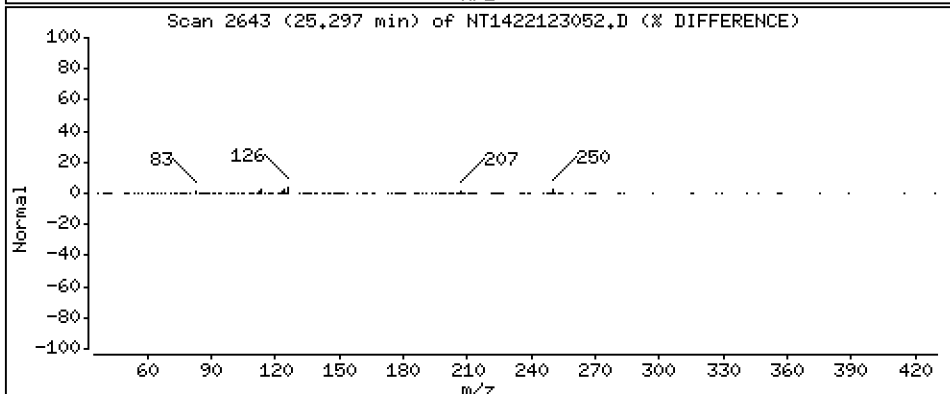
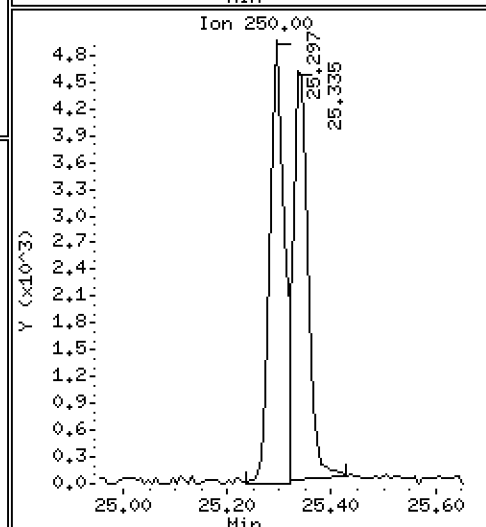
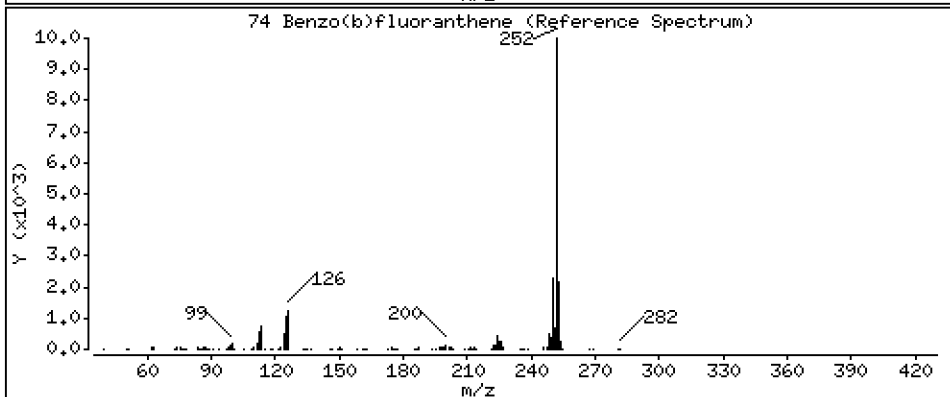
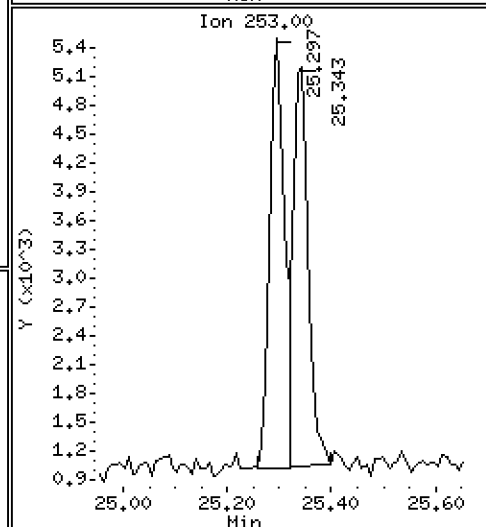
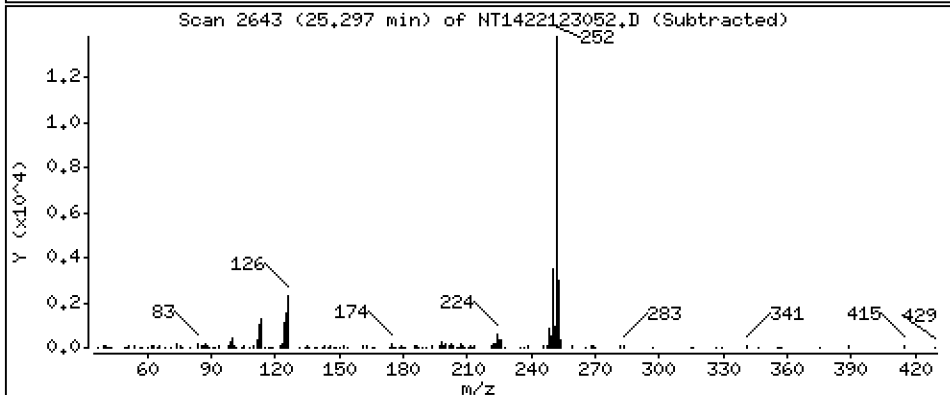
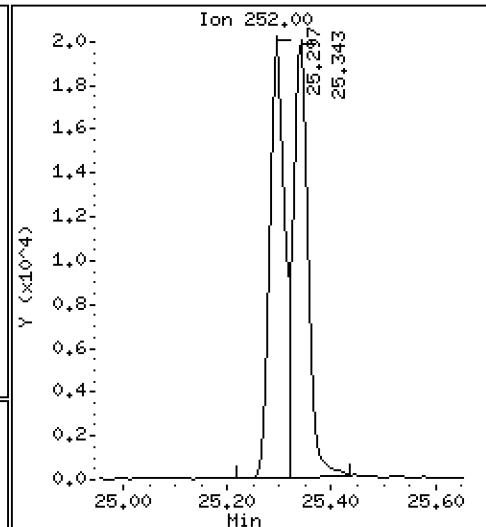
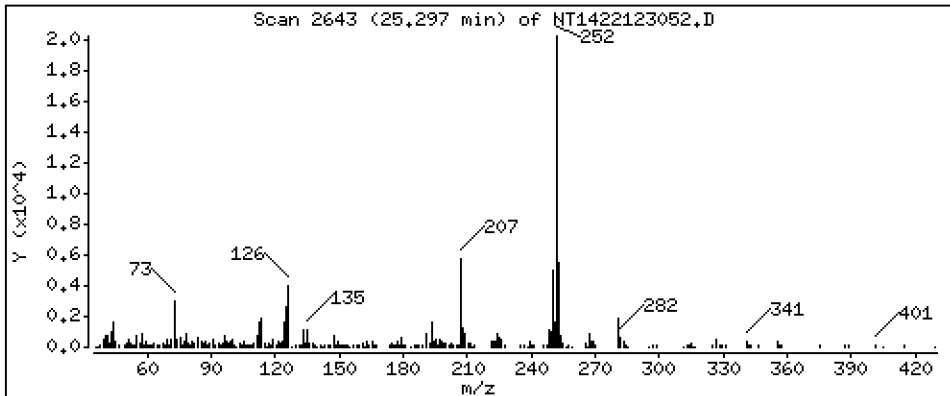
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5079 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

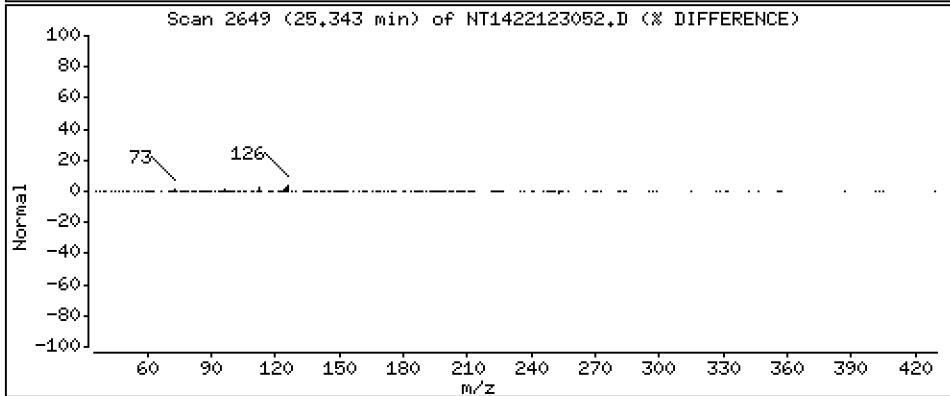
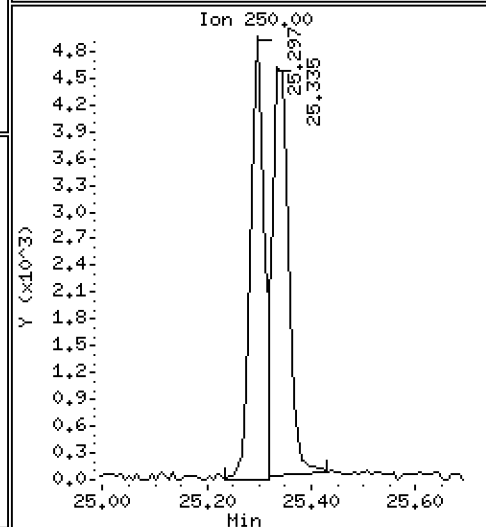
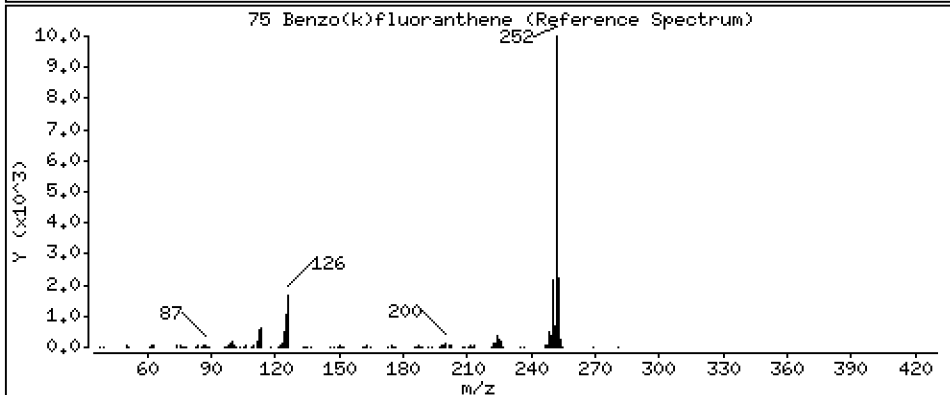
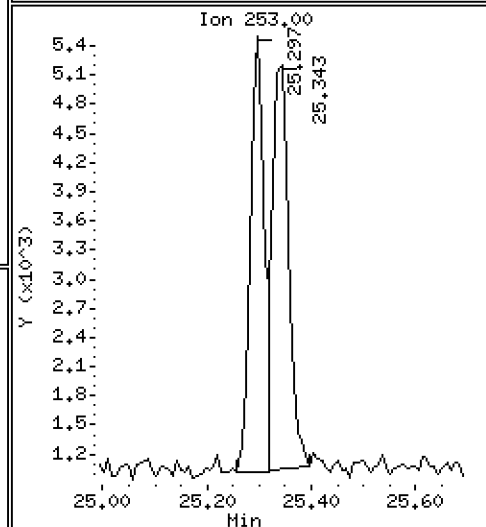
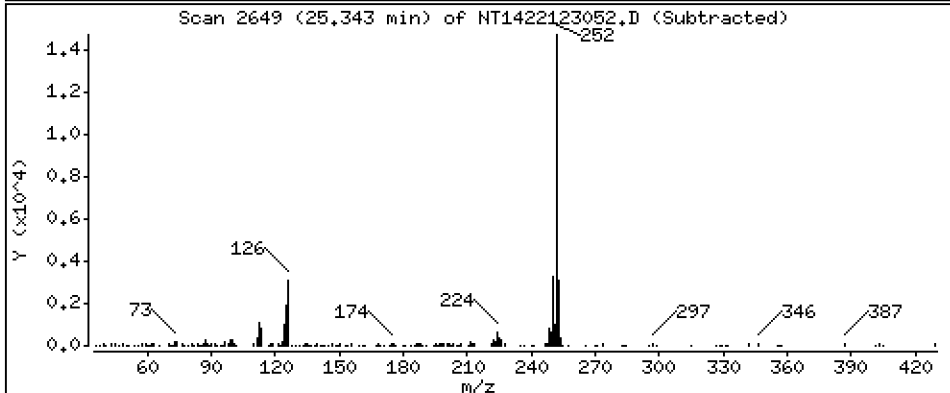
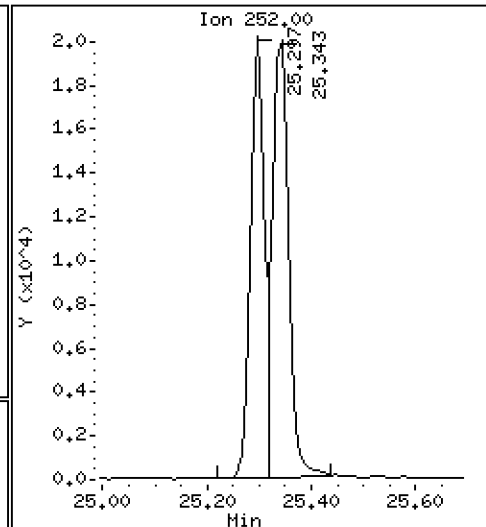
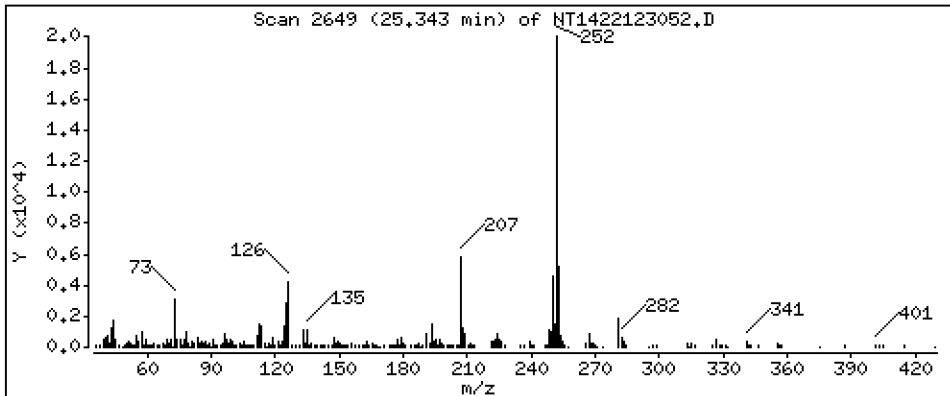
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5155 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

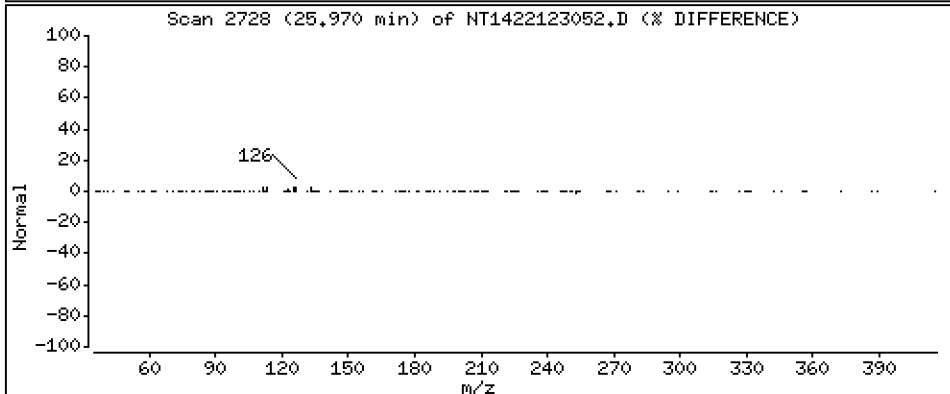
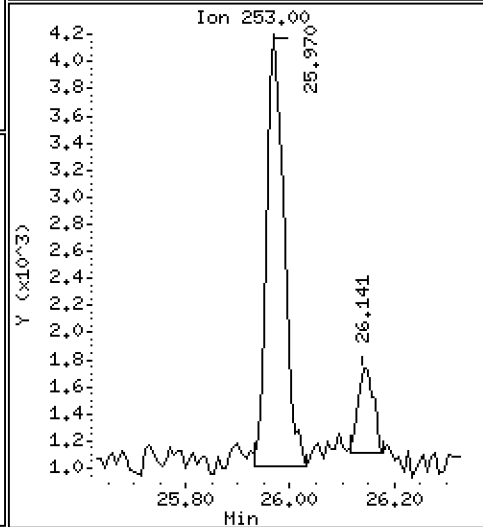
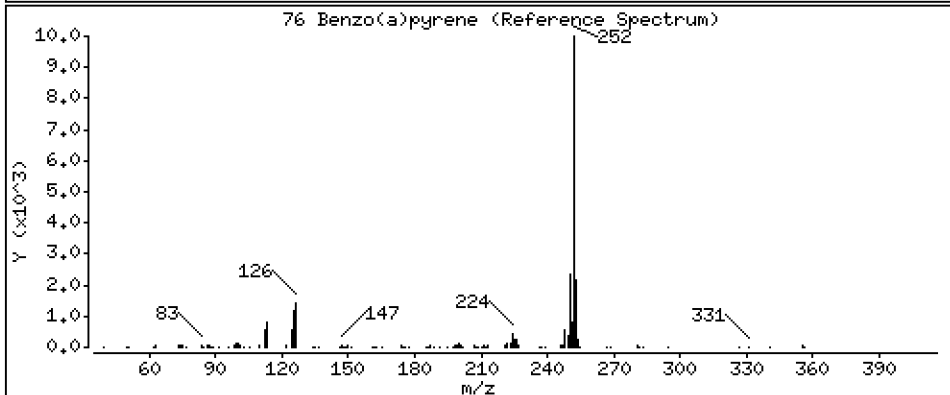
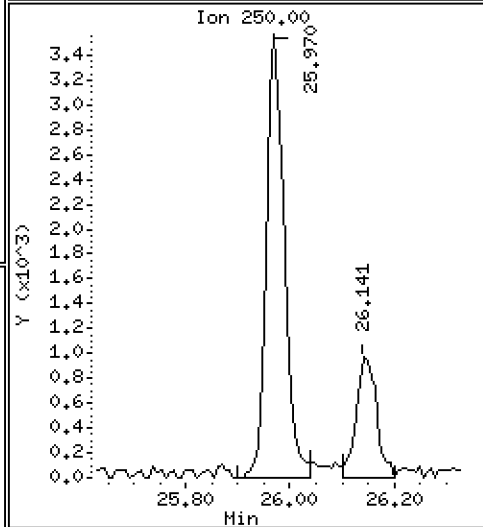
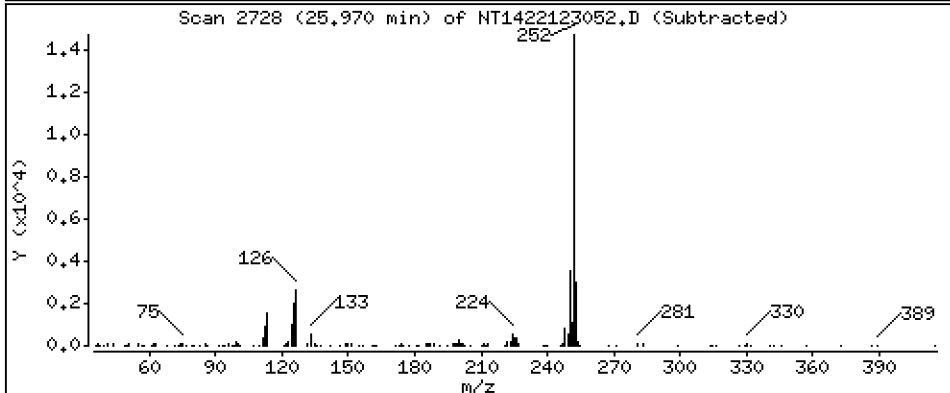
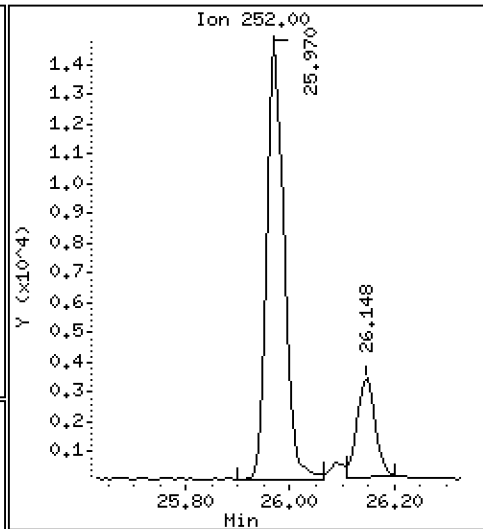
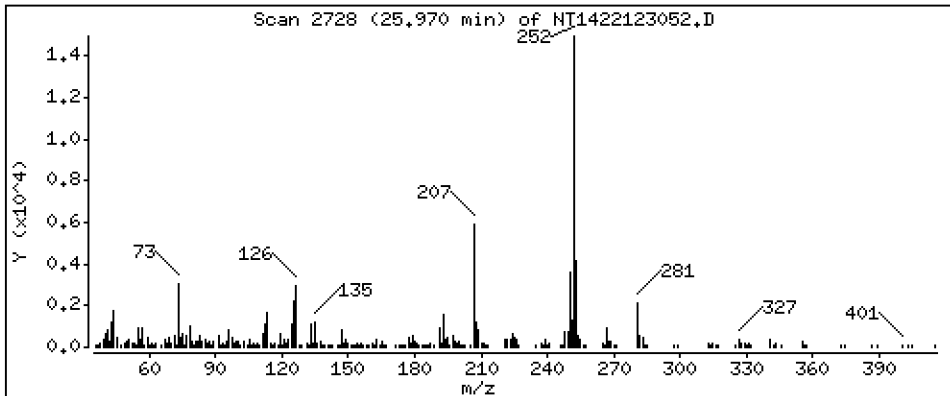
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5015 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

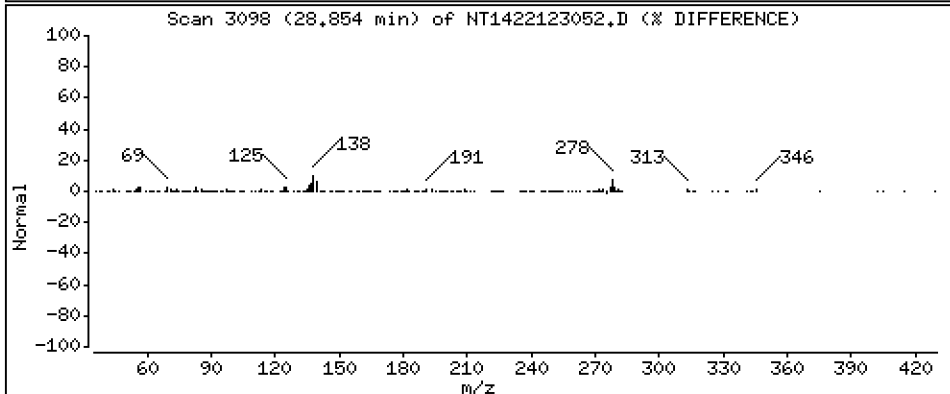
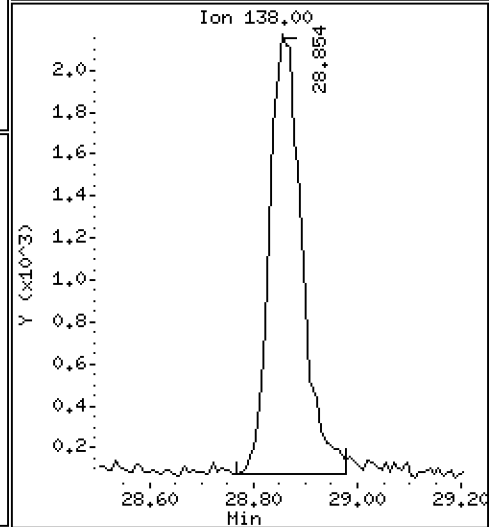
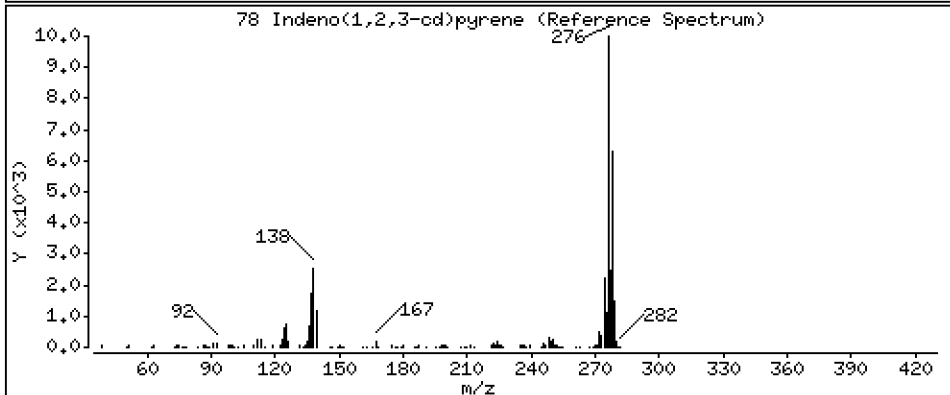
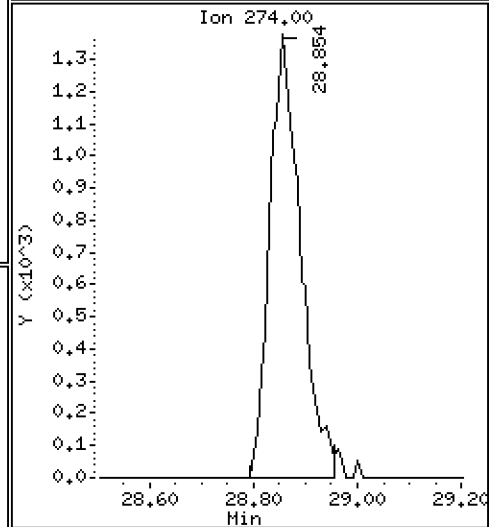
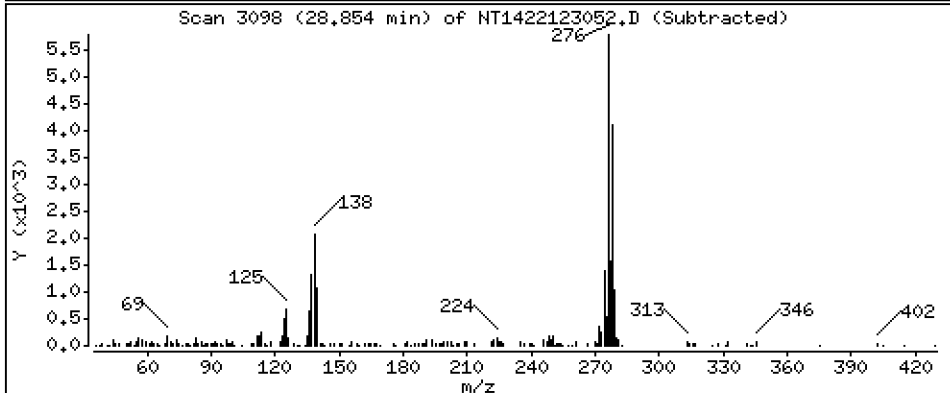
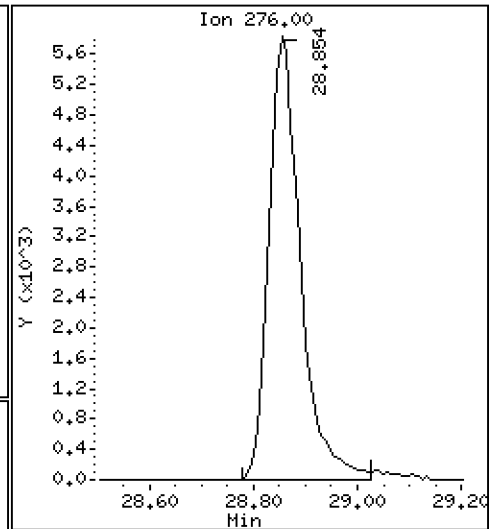
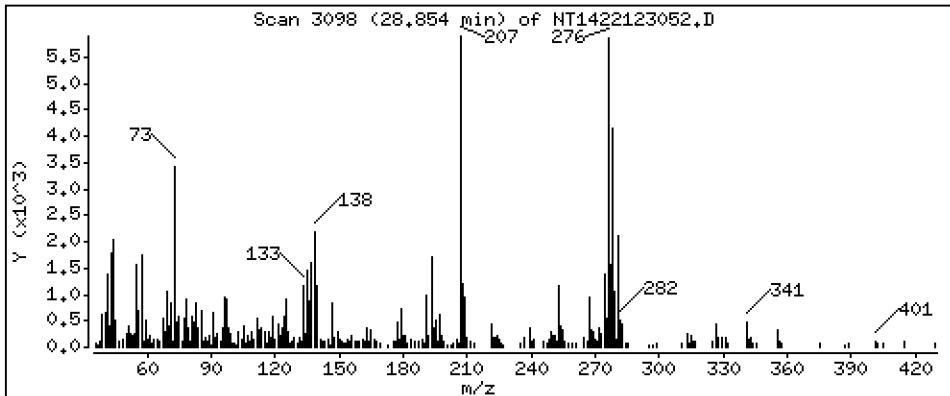
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,3235 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

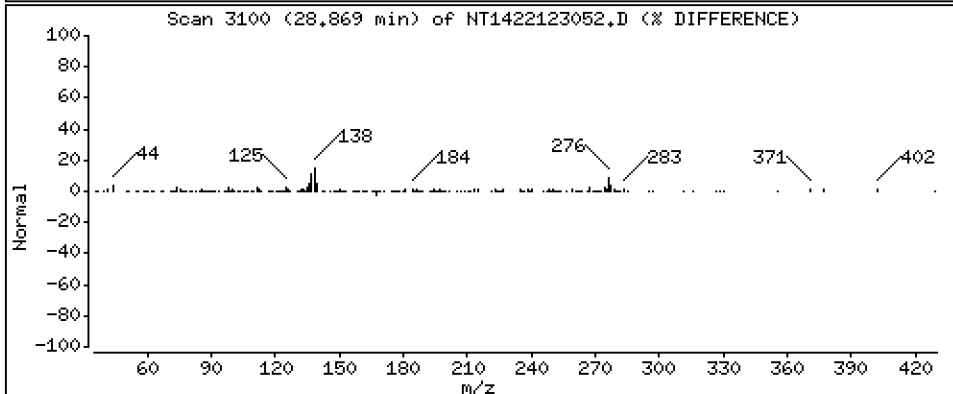
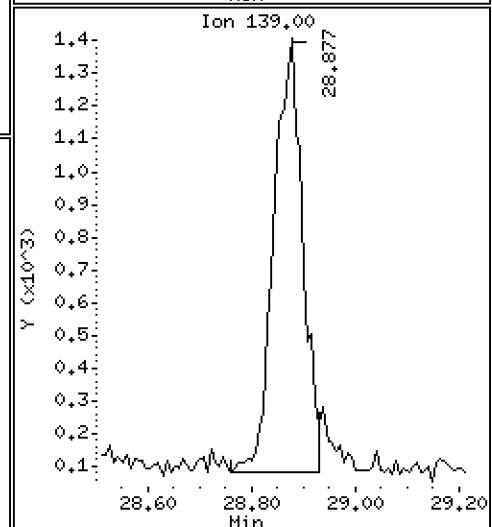
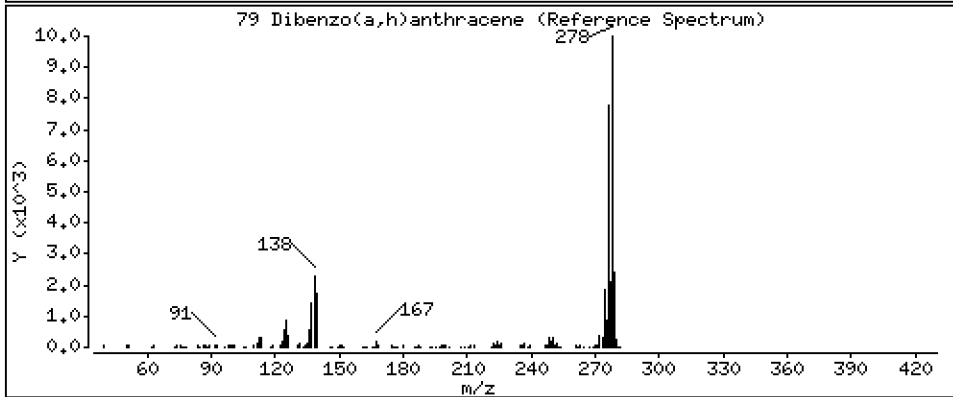
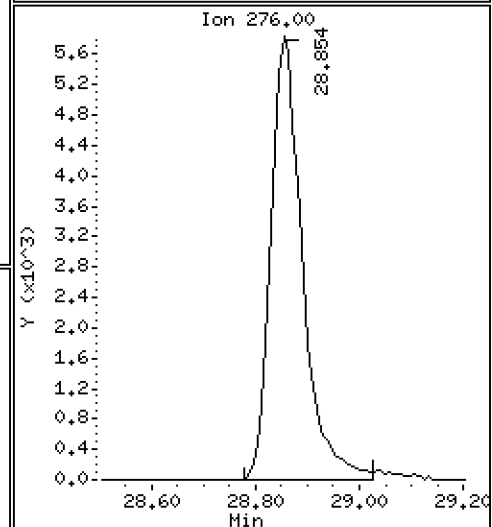
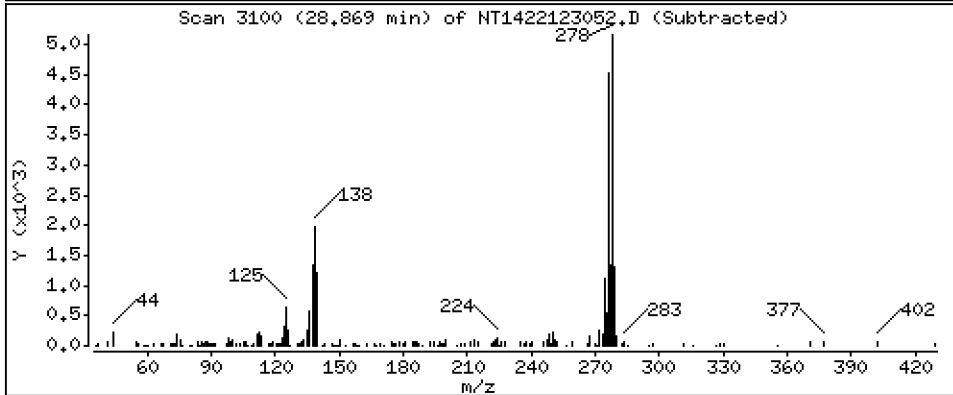
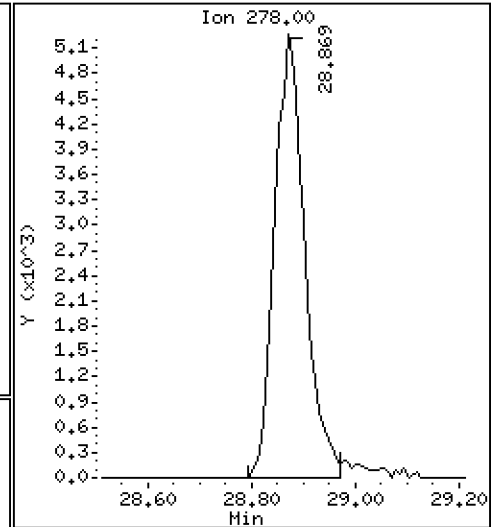
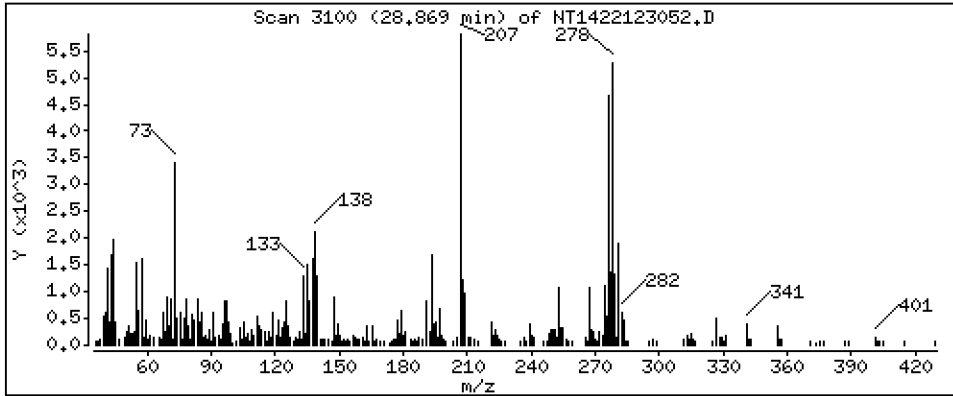
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,3297 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

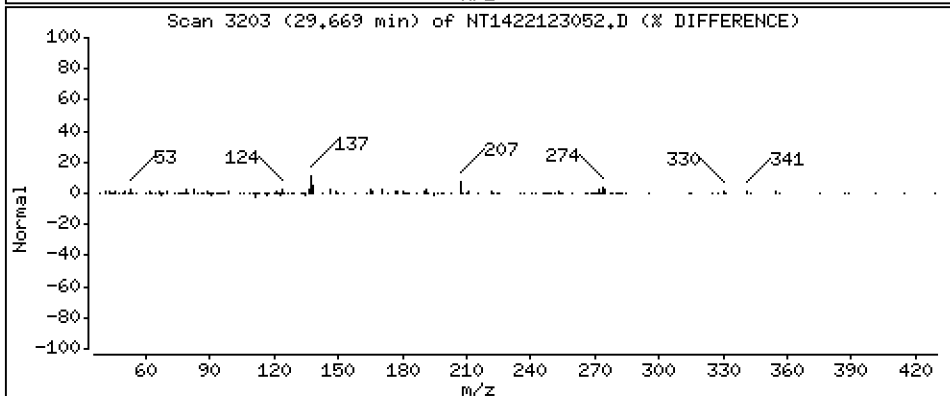
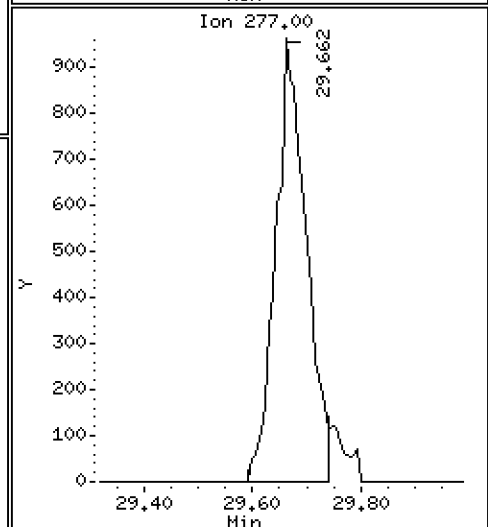
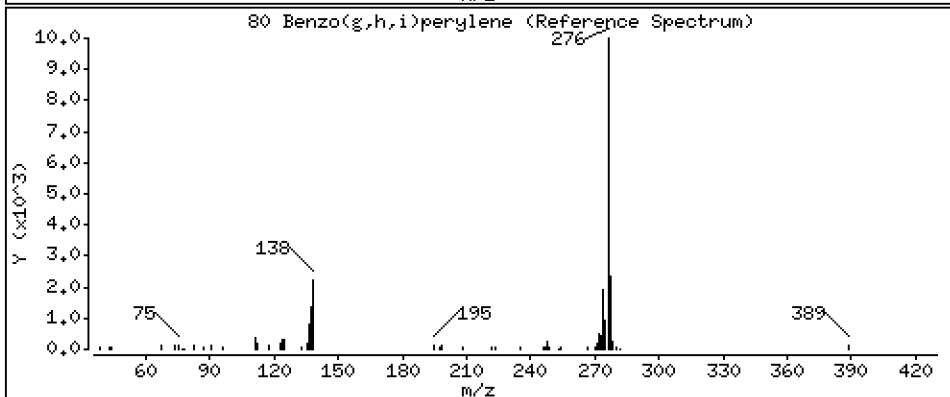
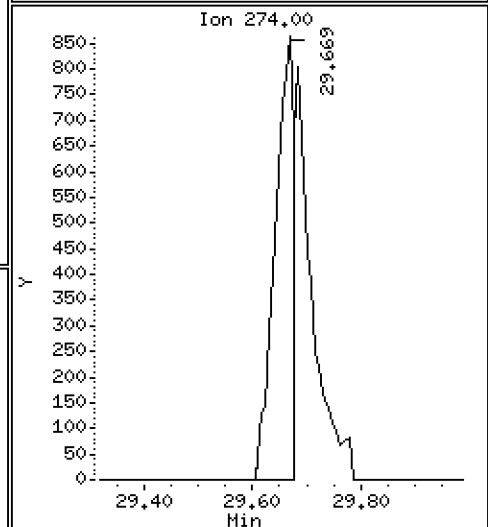
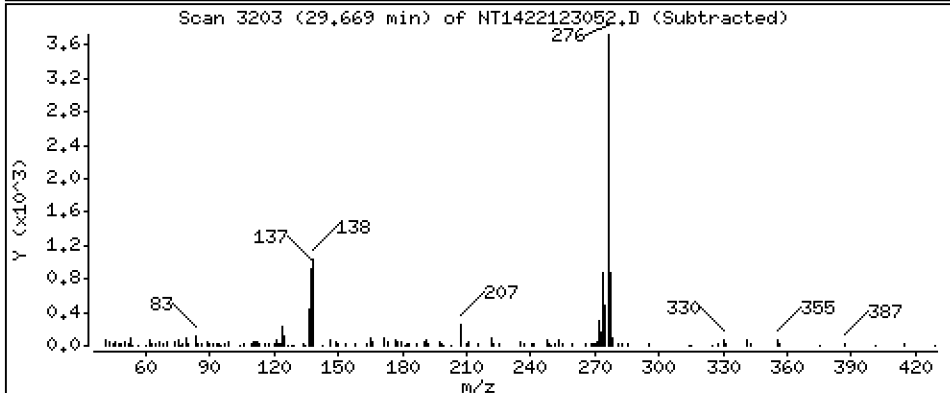
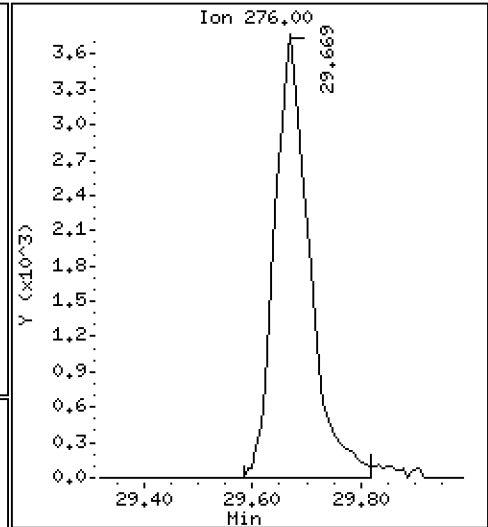
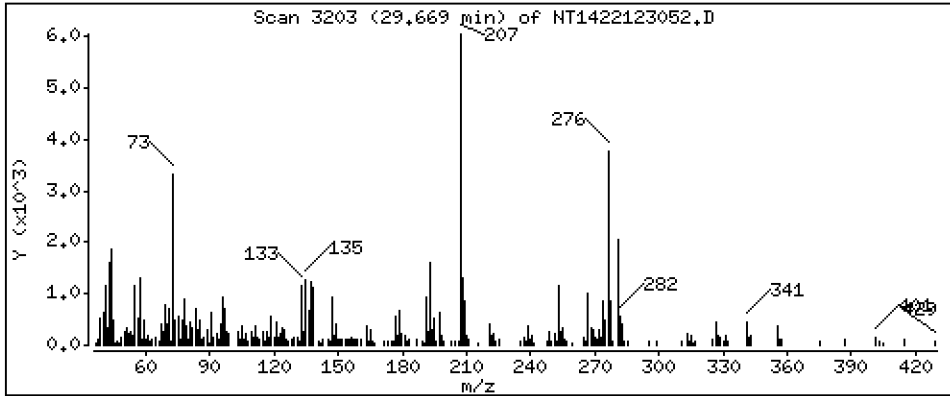
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2675 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

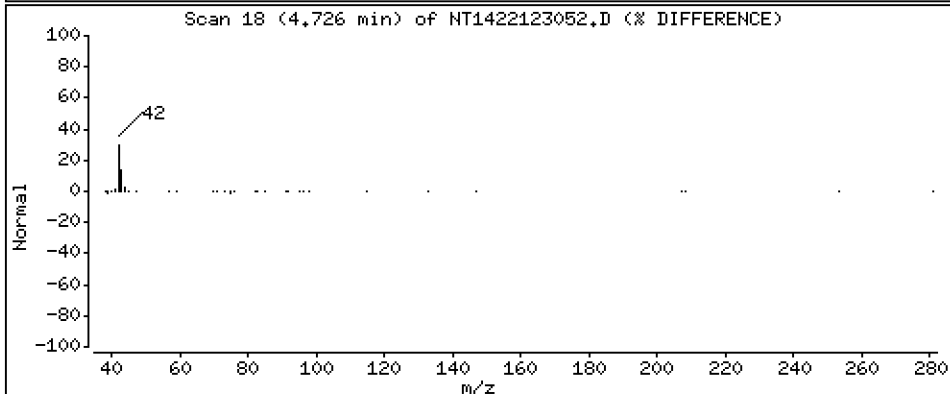
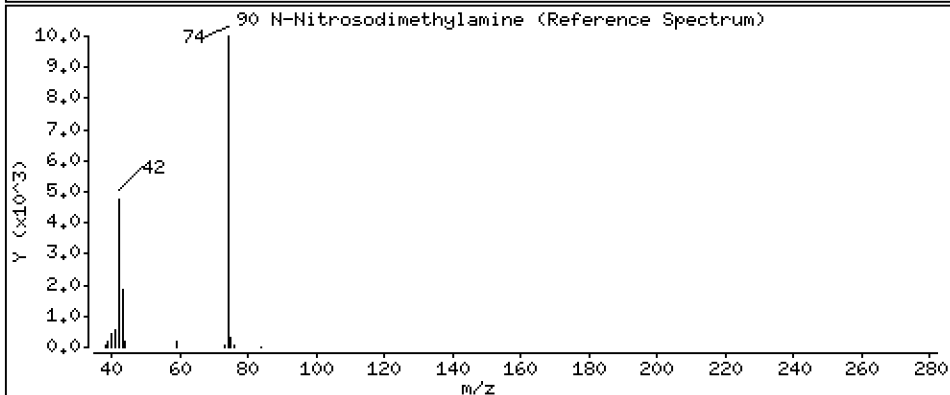
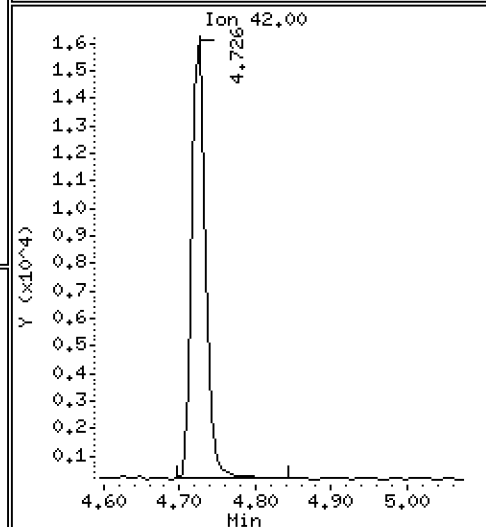
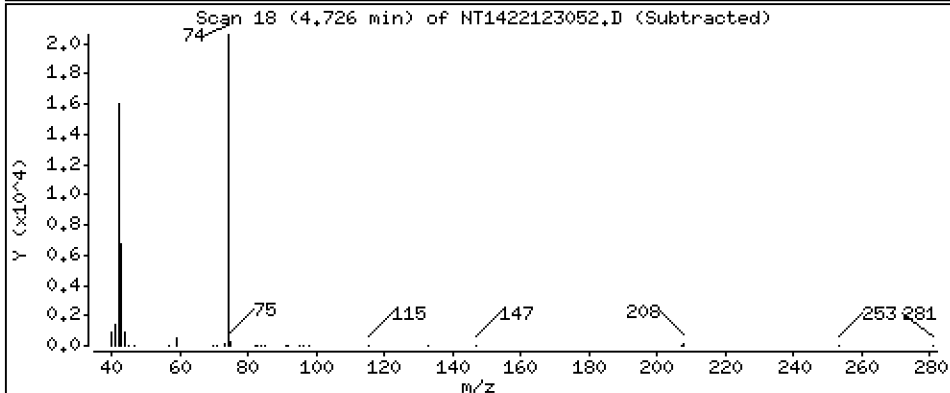
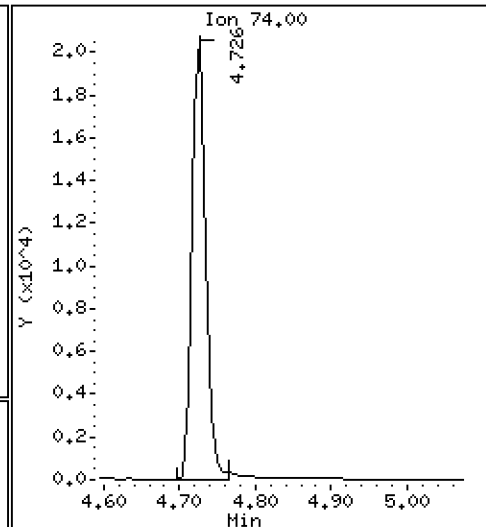
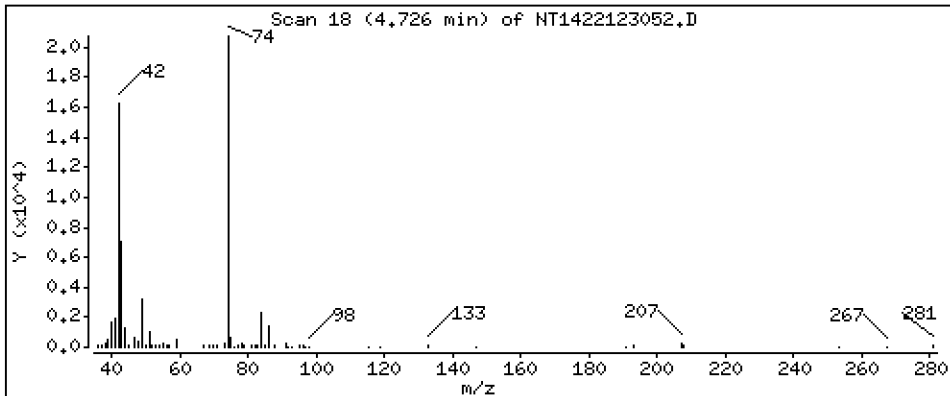
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,002 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

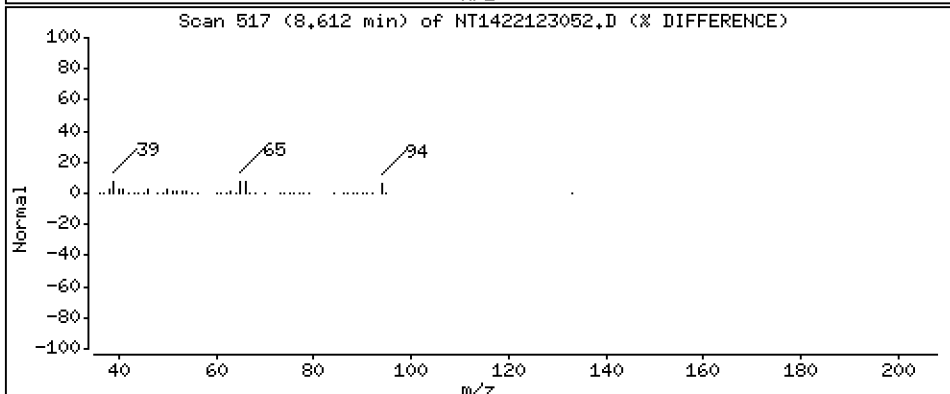
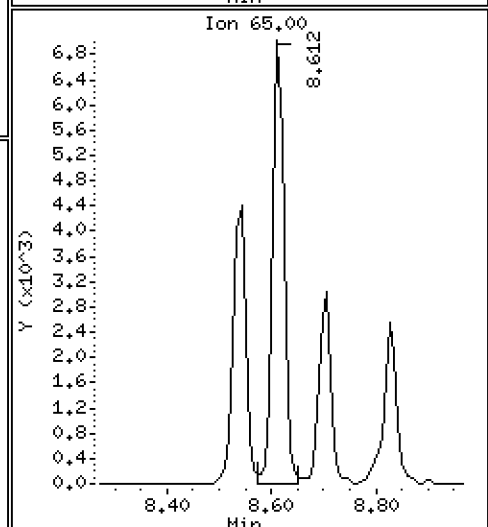
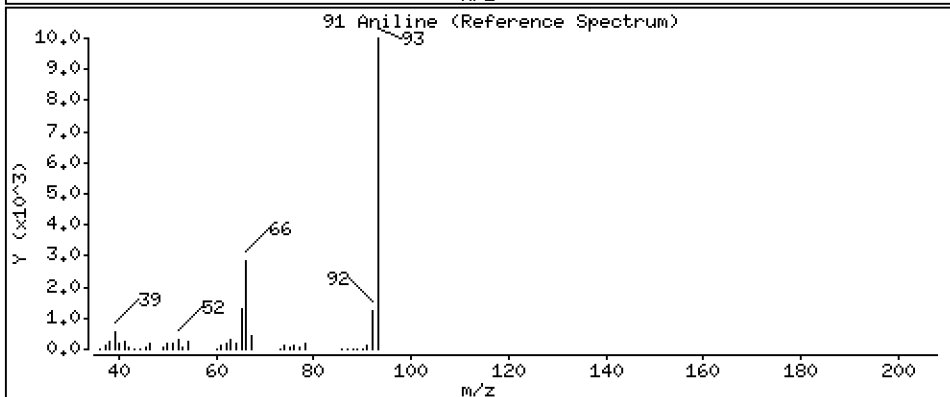
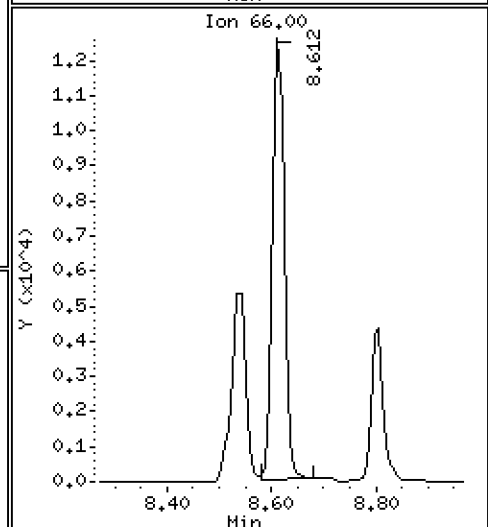
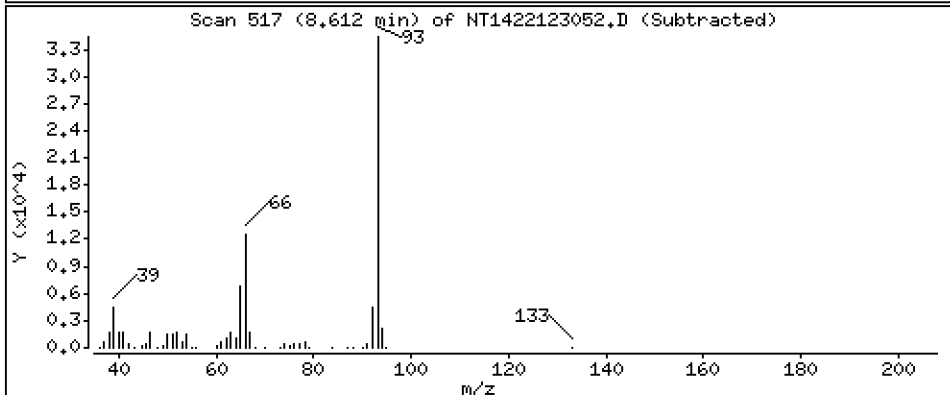
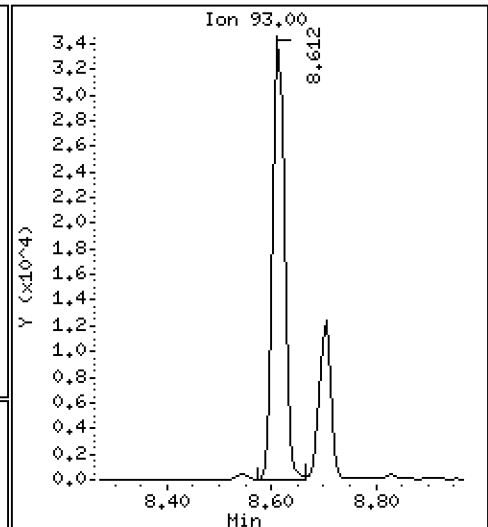
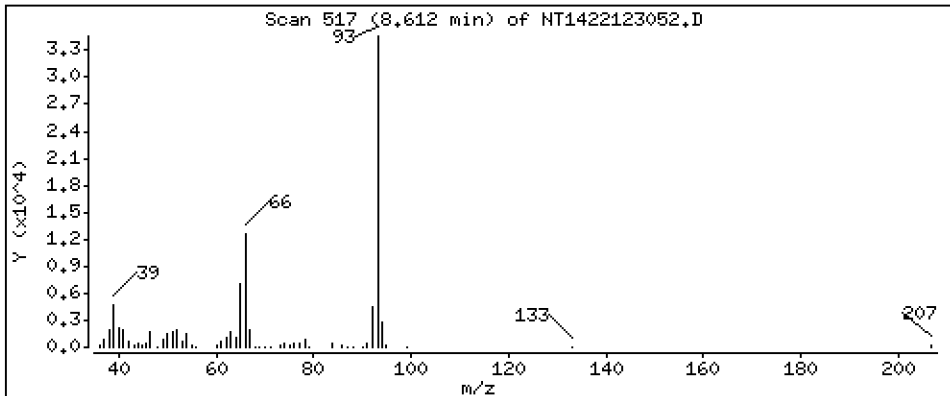
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9702 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

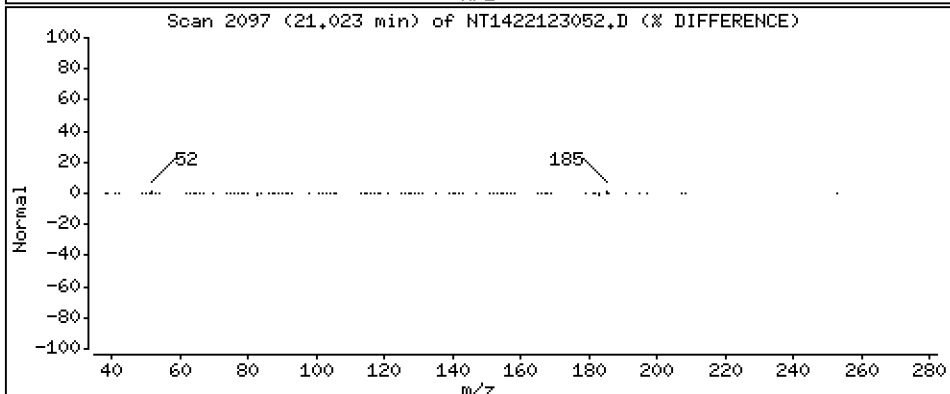
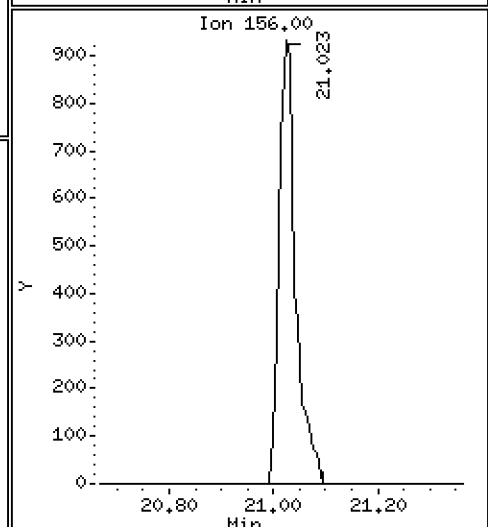
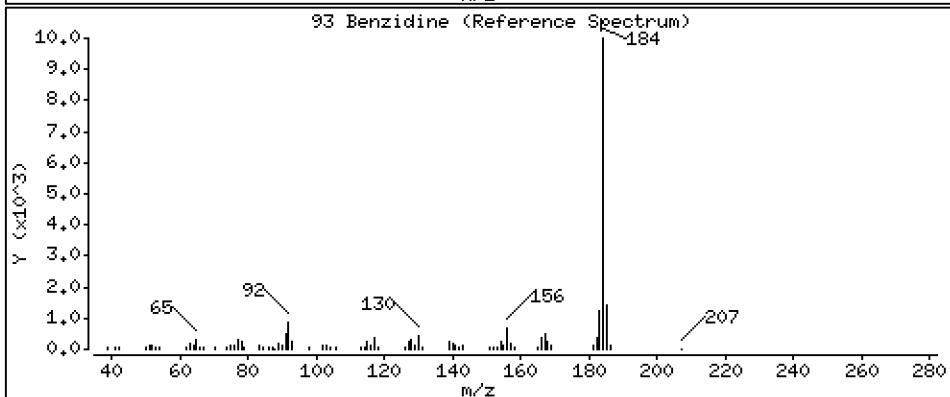
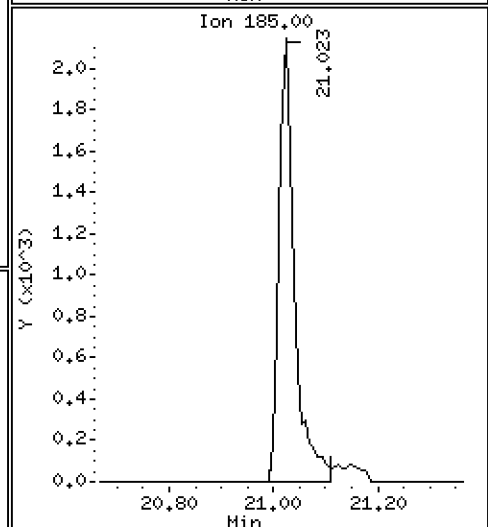
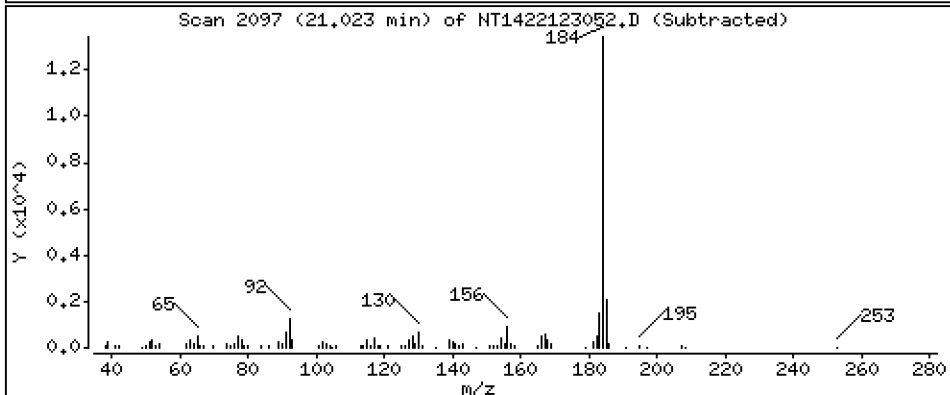
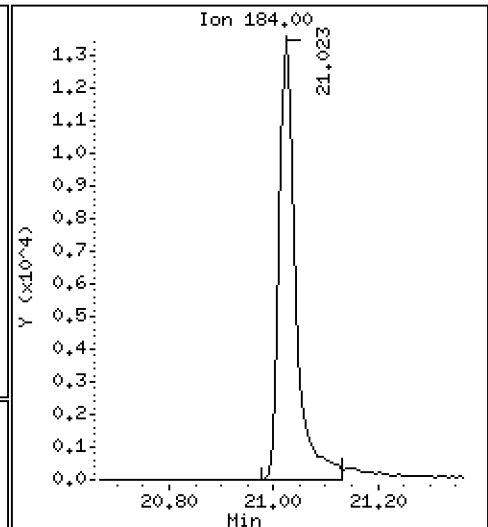
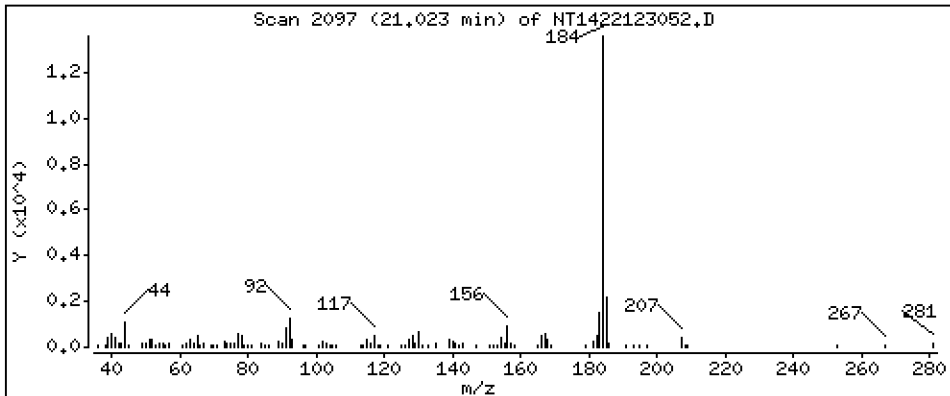
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,8039 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

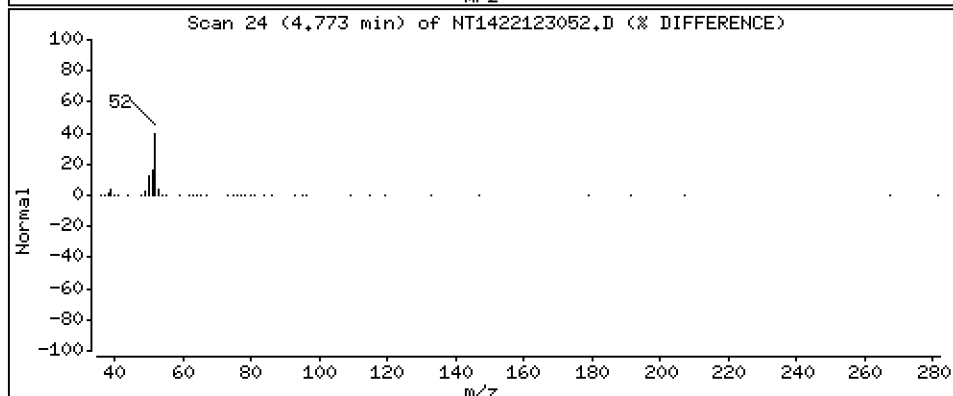
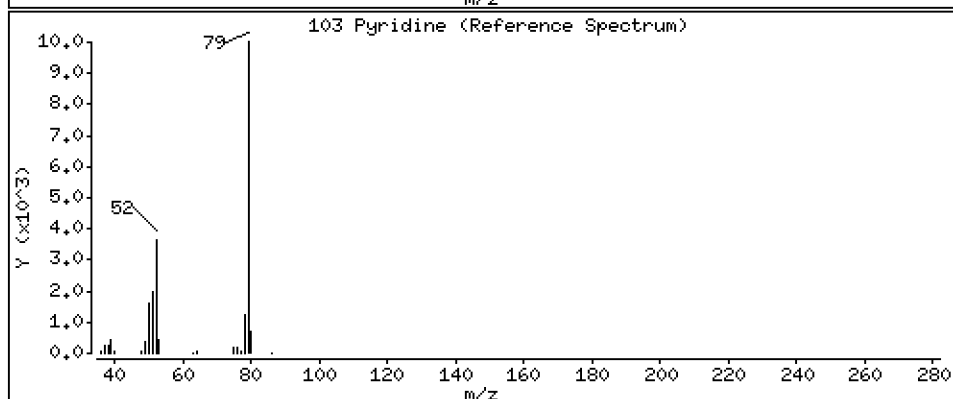
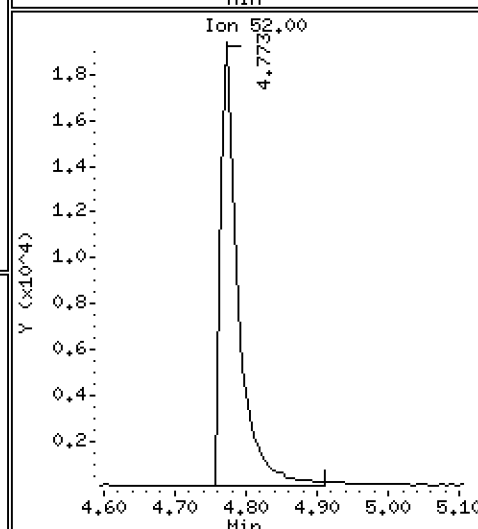
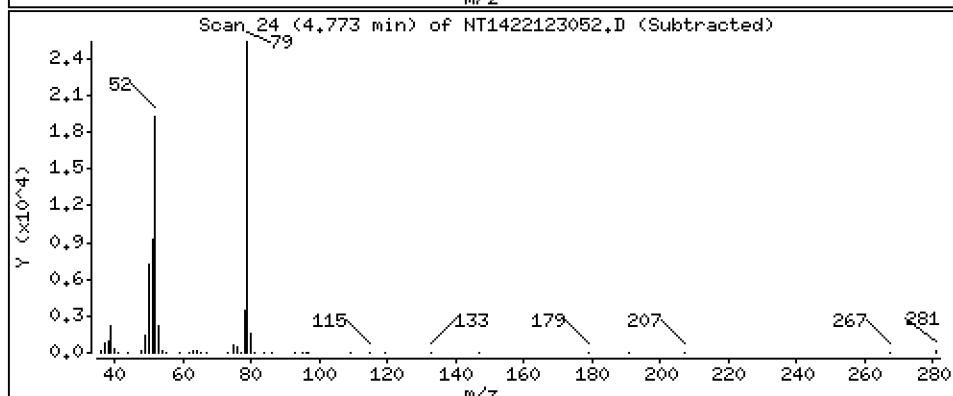
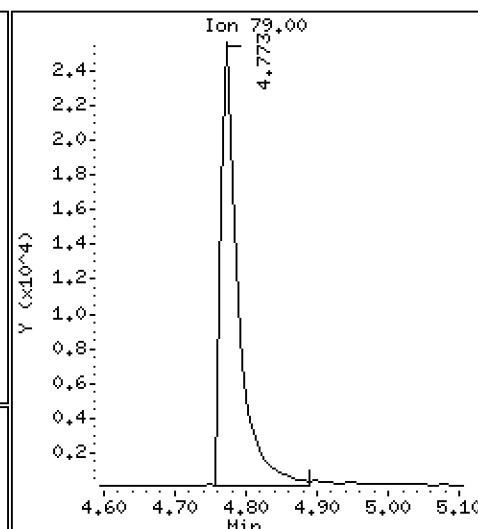
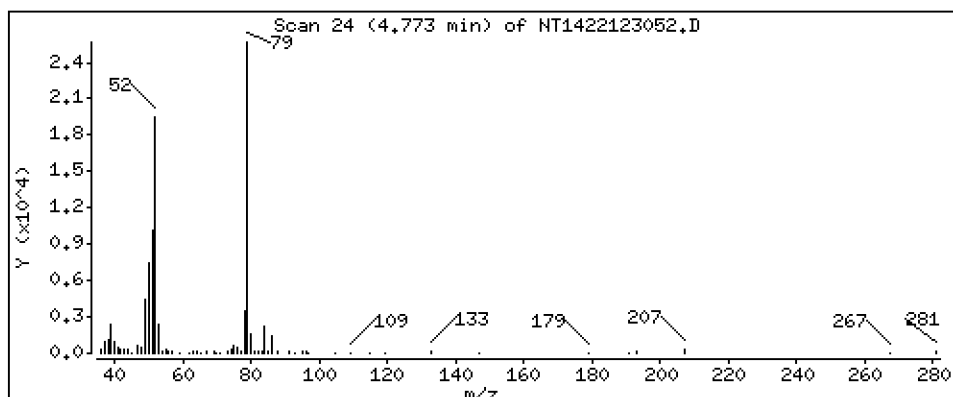
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5100 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

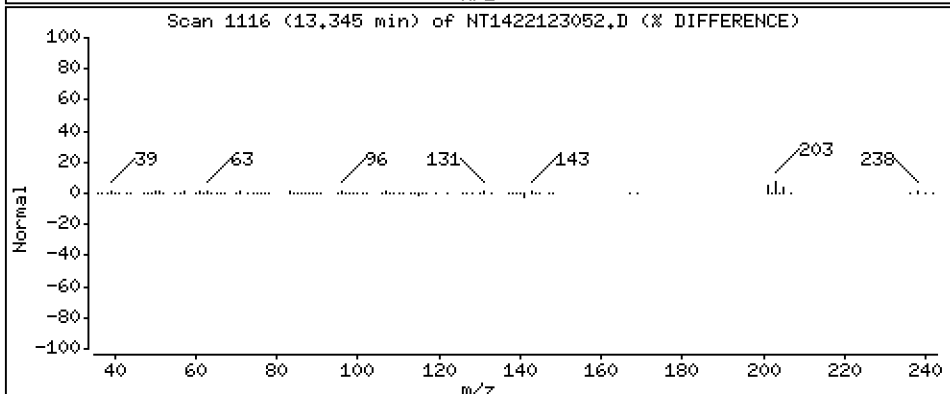
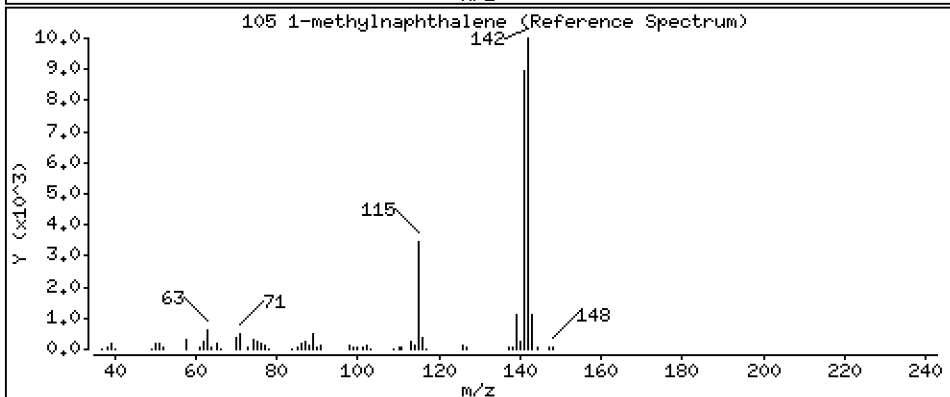
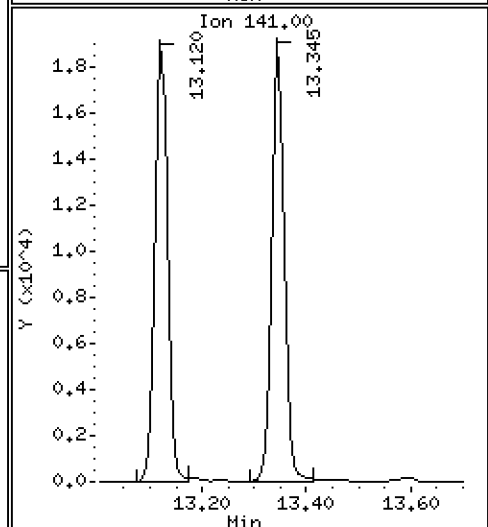
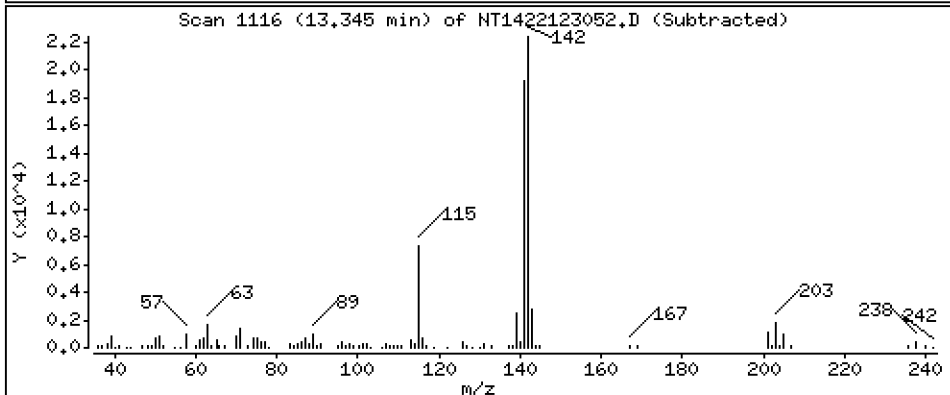
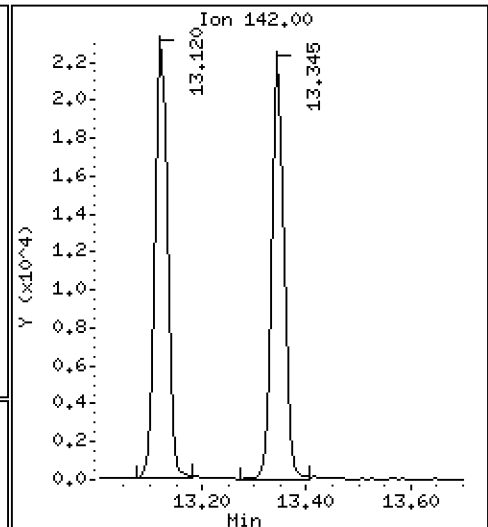
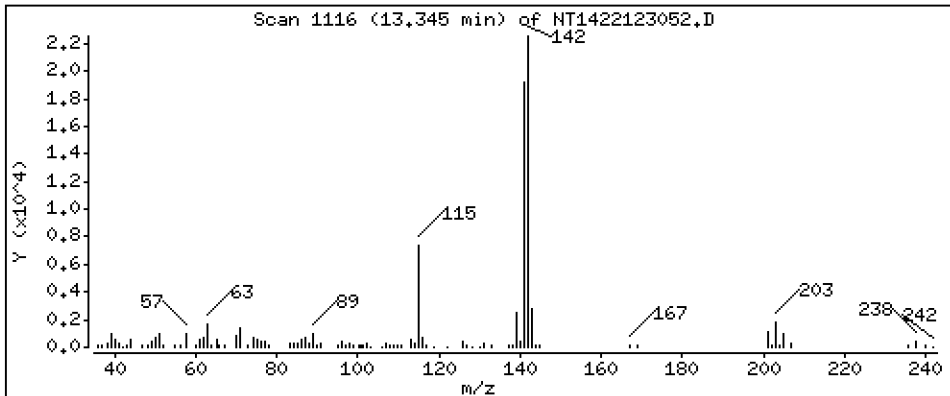
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4765 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

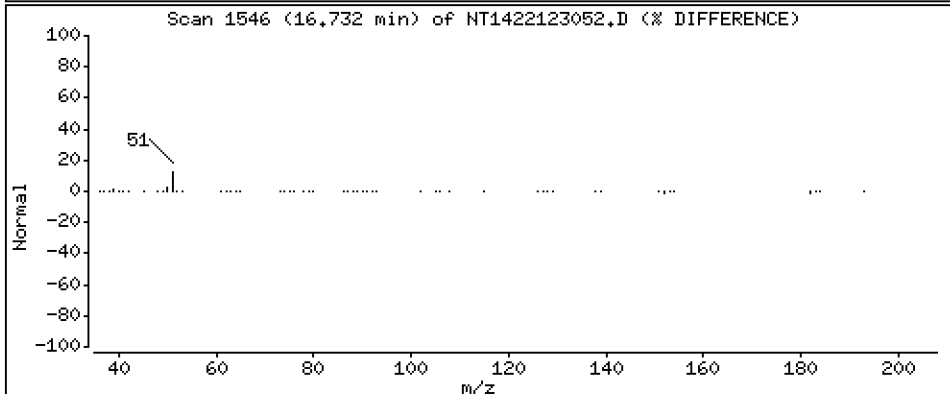
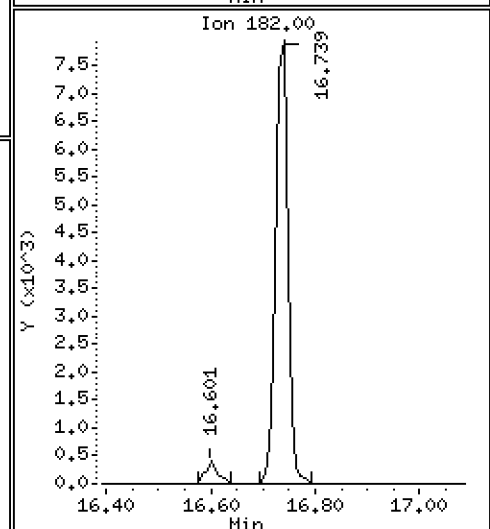
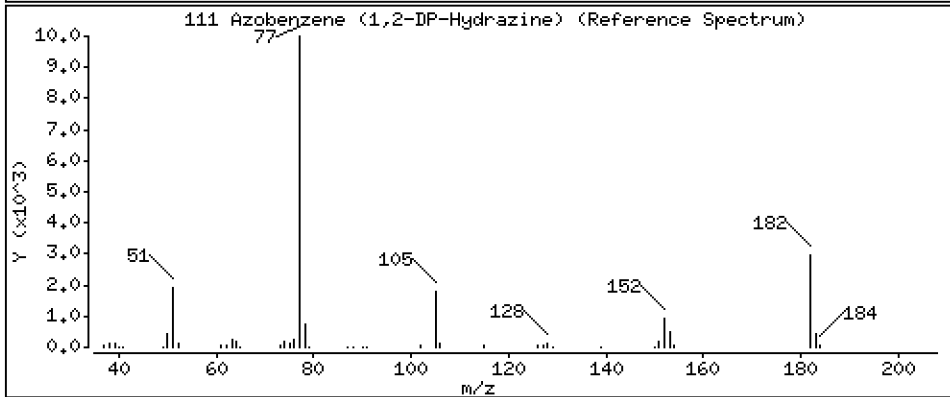
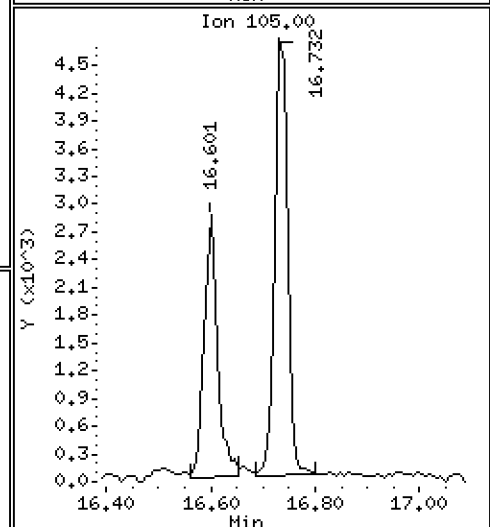
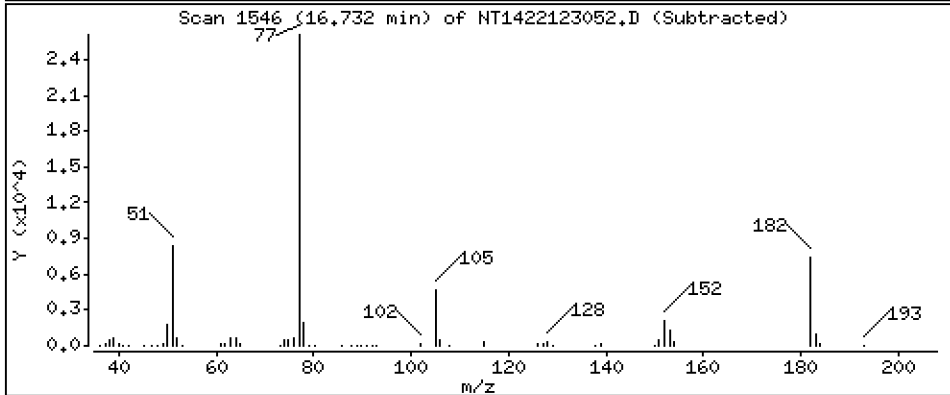
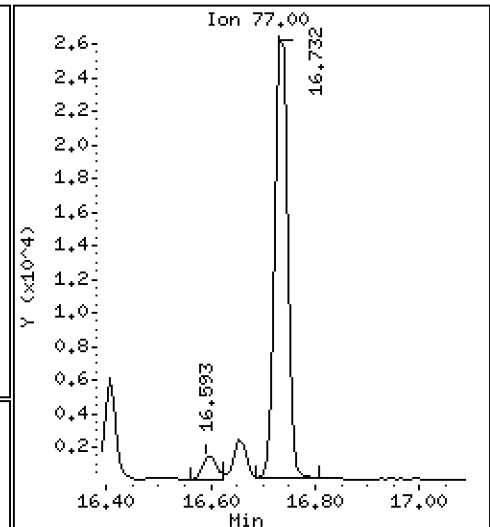
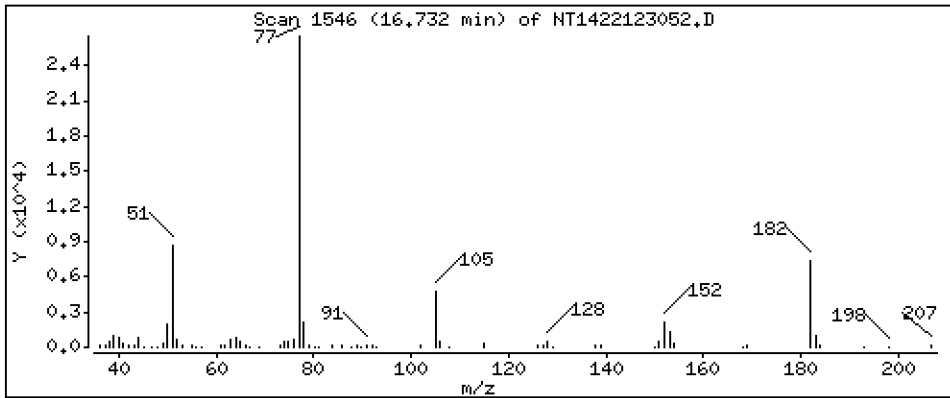
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0.5124 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

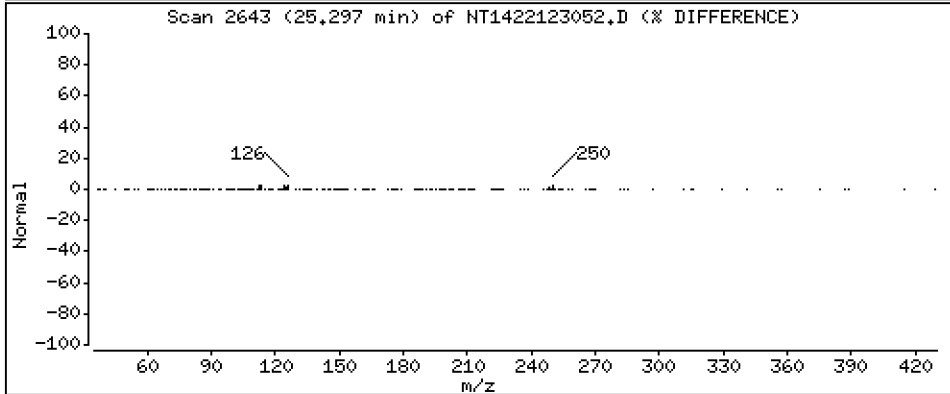
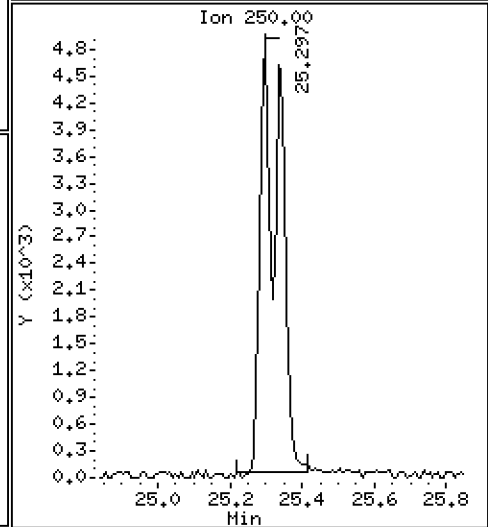
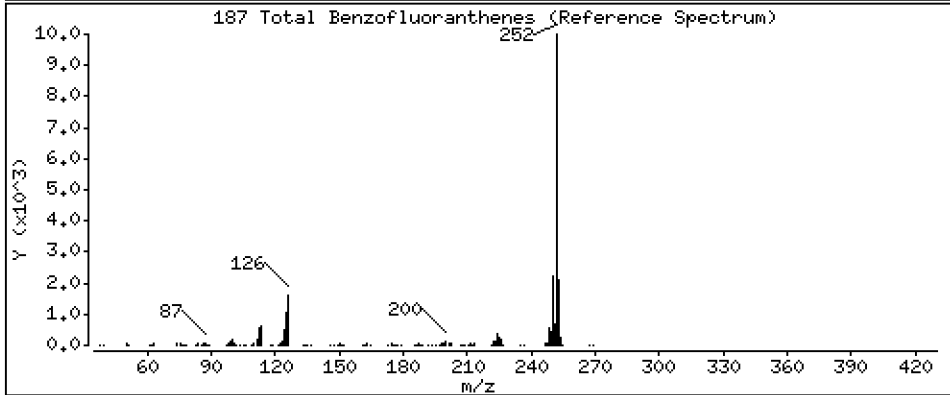
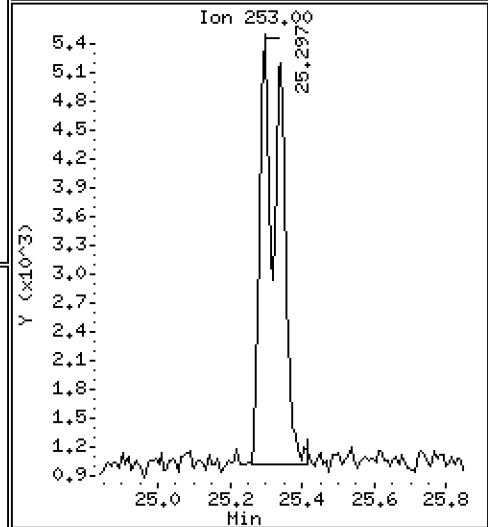
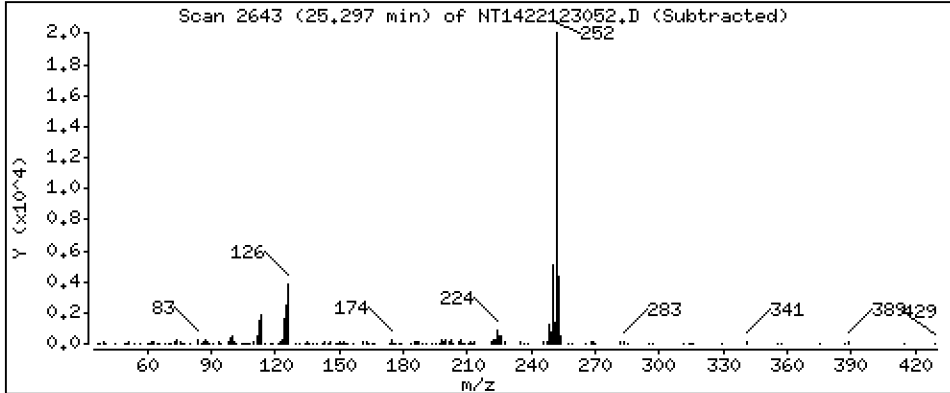
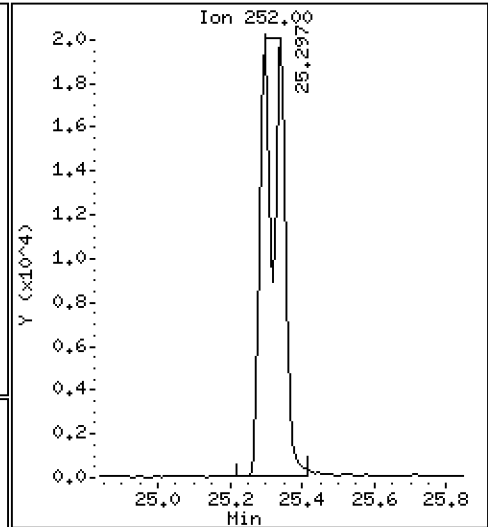
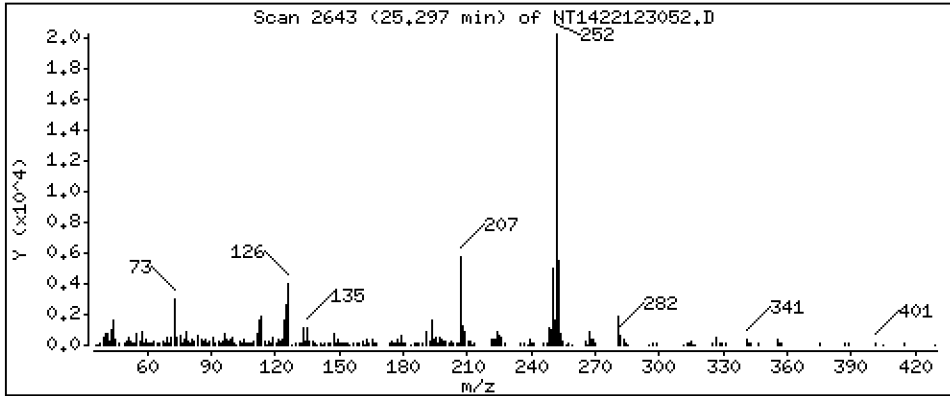
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,022 ug/mL



Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

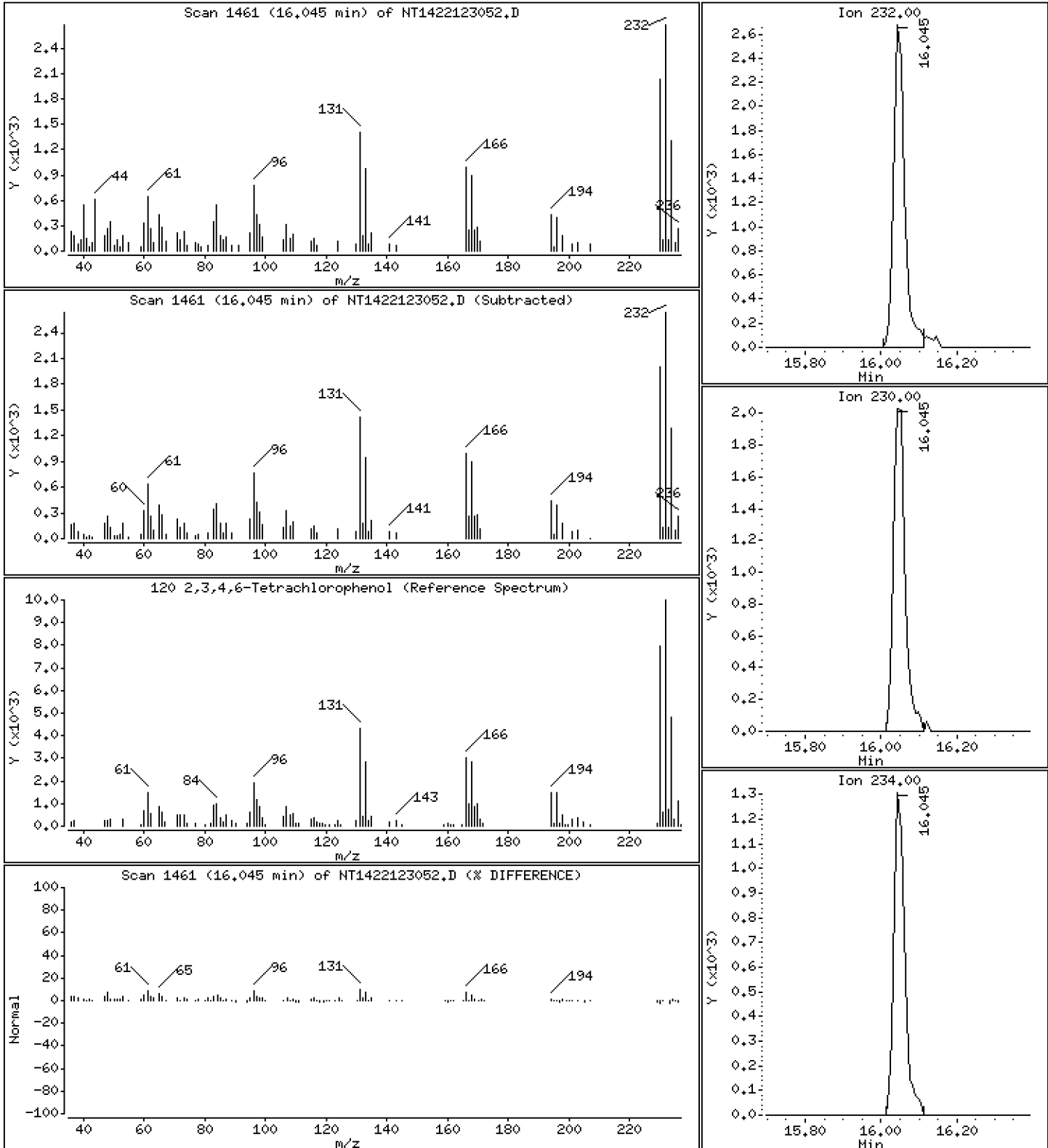
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0.3296 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
 Lab Smp Id: SKL0356-LCV2
 Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0356-LCV2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.927	(0.755)	27373	0.71127	0.7113
\$ 2 Phenol-d5	99		8.519	8.519	(0.929)	31285	0.65780	0.6578
3 Phenol	94		8.542	8.542	(0.932)	26016	0.48140	0.4814
\$ 5 2-Chlorophenol-d4	132		8.804	8.804	(0.960)	27396	0.68588	0.6859
4 Bis(2-Chloroethyl)ether	93		8.704	8.704	(0.949)	18062	0.48518	0.4852
6 2-Chlorophenol	128		8.828	8.835	(0.963)	22183	0.50569	0.5057
7 1,3-Dichlorobenzene	146		9.106	9.106	(0.993)	23016	0.49479	0.4948
* 8 1,4-Dichlorobenzene-d4	152		9.168	9.168	(1.000)	120125	4.00000	
9 1,4-Dichlorobenzene	146		9.199	9.199	(1.003)	21701	0.49244	0.4924
\$ 10 1,2-Dichlorobenzene-d4	152		9.533	9.533	(1.040)	12849	0.47066	0.4707
12 1,2-Dichlorobenzene	146		9.556	9.564	(1.042)	20928	0.48424	0.4842
11 Benzyl alcohol	108		9.440	9.440	(1.030)	9113	0.37879	0.3788
14 2,2'-oxybis(1-Chloropropane)	121		9.742	9.743	(1.063)	5781	0.46137	0.4614 (M)
13 2-Methylphenol	108		9.665	9.665	(1.054)	18978	0.48328	0.4833
17 Hexachloroethane	117		10.162	10.162	(1.108)	6042	0.37278	0.3728
16 N-Nitroso-di-n-propylamine	70		9.999	9.999	(1.091)	11134	0.46544	0.4654
15 4-Methylphenol	108		9.936	9.937	(1.084)	19666	0.47473	0.4747
\$ 18 Nitrobenzene-d5	82		10.262	10.270	(0.879)	16741	0.45978	0.4598
19 Nitrobenzene	77		10.301	10.301	(0.882)	16782	0.46409	0.4641
20 Isophorone	82		10.751	10.759	(0.921)	19898	0.43175	0.4317
21 2-Nitrophenol	139		10.938	10.938	(0.937)	10095	0.45609	0.4561
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	37295	0.98819	0.9882
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.958)	17353	0.48401	0.4840
24 Benzoic acid	105		11.093	11.201	(0.950)	7598	0.33063	0.3306
25 2,4-Dichlorophenol	162		11.403	11.403	(0.977)	31564	0.99218	0.9922
26 1,2,4-Trichlorobenzene	180		11.588	11.589	(0.993)	16567	0.48162	0.4816
* 27 Naphthalene-d8	136		11.673	11.681	(1.000)	431181	4.00000	
28 Naphthalene	128		11.712	11.720	(1.003)	51400	0.48439	0.4844
29 4-Chloroaniline	127		11.843	11.843	(1.015)	38062	0.86979	0.8698
30 Hexachlorobutadiene	225		12.083	12.083	(1.035)	8038	0.47097	0.4710
31 4-Chloro-3-methylphenol	107		12.810	12.810	(1.097)	28593	0.95242	0.9524
32 2-Methylnaphthalene	142		13.120	13.128	(1.124)	36399	0.46764	0.4676
33 Hexachlorocyclopentadiene	237		13.592	13.592	(0.888)	1798	0.10740	0.1074

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.747	13.747	(0.898)	16457	0.89033	0.8903	
35 2,4,5-Trichlorophenol	196		13.824	13.824	(0.903)	19186	0.89935	0.8994	
§ 36 2-Fluorobiphenyl	172		13.909	13.909	(0.909)	35317	0.47432	0.4743	
37 2-Chloronaphthalene	162		14.118	14.126	(0.922)	30923	0.48818	0.4882	
38 2-Nitroaniline	65		14.373	14.373	(0.939)	15325	0.92024	0.9202	
39 Dimethylphthalate	163		14.807	14.807	(0.967)	29080	0.46562	0.4656	
40 Acenaphthylene	152		14.993	15.000	(0.979)	51393	0.53211	0.5321	
41 2,6-Dinitrotoluene	165		14.938	14.946	(0.976)	12001	0.85147	0.8515	
* 42 Acenaphthene-d10	164		15.310	15.318	(1.000)	221457	4.00000		
43 3-Nitroaniline	138		15.232	15.233	(0.995)	13712	0.80043	0.8004	
44 Acenaphthene	153		15.379	15.379	(1.005)	29746	0.49655	0.4966	
45 2,4-Dinitrophenol	184		15.449	15.441	(1.009)	1736	0.14499	0.1450 (M)	
46 Dibenzofuran	168		15.704	15.712	(1.026)	44263	0.49272	0.4927	
47 4-Nitrophenol	109		15.596	15.549	(1.019)	5313	0.64751	0.6475 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.758	(1.029)	15060	0.77878	0.7788	
50 Diethylphthalate	149		16.268	16.268	(1.063)	45617	0.53738	0.5374	
49 Fluorene	166		16.423	16.423	(1.073)	46218	0.48362	0.4836	
51 4-Chlorophenyl-phenylether	204		16.407	16.415	(1.072)	21450	0.45846	0.4585	
52 4-Nitroaniline	138		16.508	16.508	(1.078)	16356	0.79260	0.7926	
53 4,6-Dinitro-2-methylphenol	198		16.600	16.608	(0.904)	11325	0.75665	0.7566	
54 N-Nitrosodiphenylamine	169		16.654	16.662	(0.907)	31251	0.51126	0.5113	
§ 55 2,4,6-Tribromophenol	330		16.963	16.963	(1.108)	5569	0.53587	0.5359	
56 4-Bromophenyl-phenylether	248		17.418	17.418	(0.949)	11348	0.49028	0.4903	
57 Hexachlorobenzene	284		17.742	17.742	(0.966)	12447	0.49003	0.4900	
58 Pentachlorophenol	266		18.098	18.098	(0.986)	2476	0.22496	0.2250 (M)	
* 59 Phenanthrene-d10	188		18.361	18.369	(1.000)	356219	4.00000		
60 Phenanthrene	178		18.408	18.415	(1.003)	45378	0.48858	0.4886	
61 Anthracene	178		18.500	18.508	(1.008)	41525	0.46834	0.4683	
62 Carbazole	167		18.833	18.833	(1.026)	39496	0.46078	0.4608	
63 Di-n-butylphthalate	149		19.622	19.622	(1.069)	41551	0.42863	0.4286	
64 Fluoranthene	202		20.791	20.798	(0.888)	44087	0.46433	0.4643	
65 Pyrene	202		21.216	21.224	(0.906)	46707	0.46787	0.4679	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.918)	32135	0.45398	0.4540	
67 Butylbenzylphthalate	149		22.416	22.416	(0.958)	16717	0.44361	0.4436	
68 Benzo(a)anthracene	228		23.376	23.376	(0.999)	43313	0.48487	0.4849	
* 69 Chrysene-d12	240		23.407	23.407	(1.000)	294883	4.00000		
70 3,3'-Dichlorobenzidine	252		23.322	23.330	(0.996)	40436	1.47869	1.479	
71 Chrysene	228		23.446	23.454	(1.002)	41334	0.48986	0.4899	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.438	(0.959)	22969	0.47045	0.4704	
* 134 Di-n-octylphthalate-d4	153		24.429	24.429	(1.000)	439623	4.00000		
73 Di-n-octylphthalate	149		24.437	24.437	(1.000)	51489	0.48792	0.4879	
74 Benzo(b)fluoranthene	252		25.296	25.304	(0.969)	40786	0.50793	0.5079	
75 Benzo(k)fluoranthene	252		25.343	25.343	(0.971)	42127	0.51546	0.5155	
76 Benzo(a)pyrene	252		25.970	25.978	(0.995)	33479	0.50154	0.5015	
* 77 Perylene-d12	264		26.094	26.094	(1.000)	255506	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.853	28.854	(1.106)	24548	0.32350	0.3235	
79 Dibenzo(a,h)anthracene	278		28.869	28.861	(1.106)	21258	0.32967	0.3297	
80 Benzo(g,h,i)perylene	276		29.669	29.669	(1.137)	17003	0.26748	0.2675	
90 N-Nitrosodimethylamine	74		4.726	4.726	(0.516)	26563	1.00220	1.002	
91 Aniline	93		8.611	8.619	(0.939)	51051	0.97019	0.9702	
93 Benzidine	184		21.023	21.015	(0.898)	29087	0.80389	0.8039	
103 Pyridine	79		4.772	4.757	(0.521)	42950	0.50997	0.5100	
105 1-methylnaphthalene	142		13.344	13.352	(1.143)	35633	0.47646	0.4765	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.731	16.739	(1.093)	42141	0.51242	0.5124	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123052.D Calibration Time: 13:17
 Lab Smp Id: SKL0356-LCV2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

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

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m, 31-DEC-2022 15:05

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

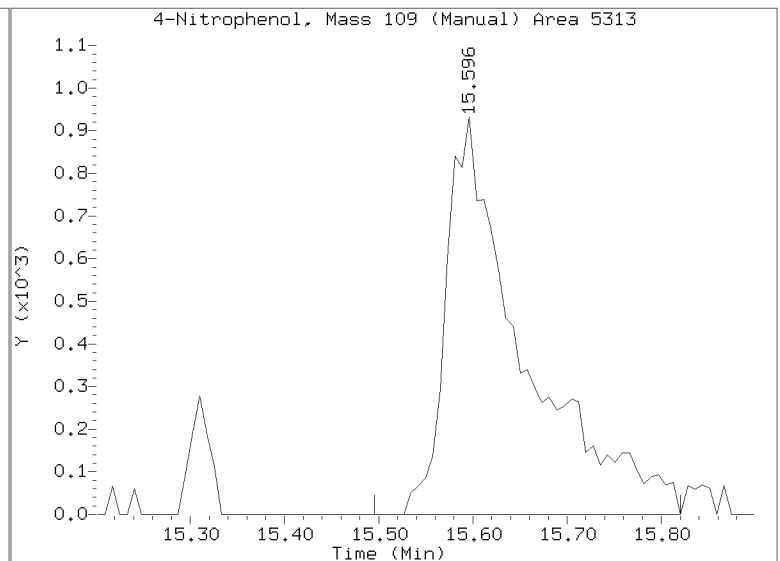
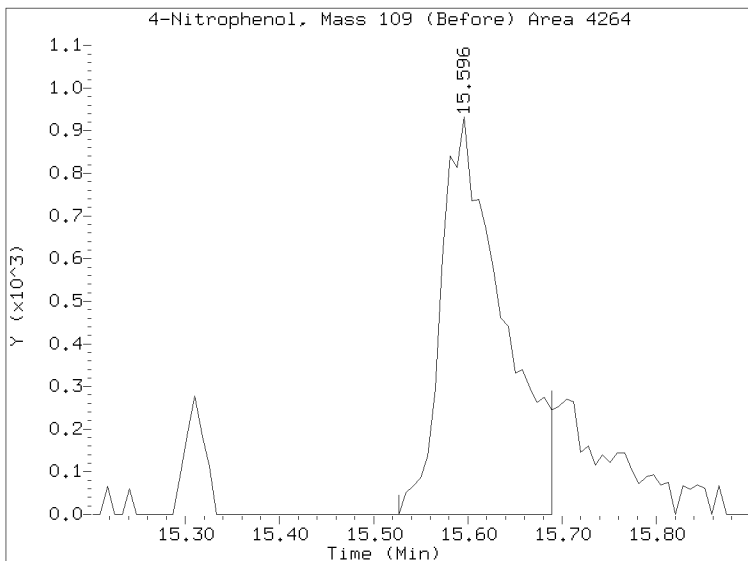
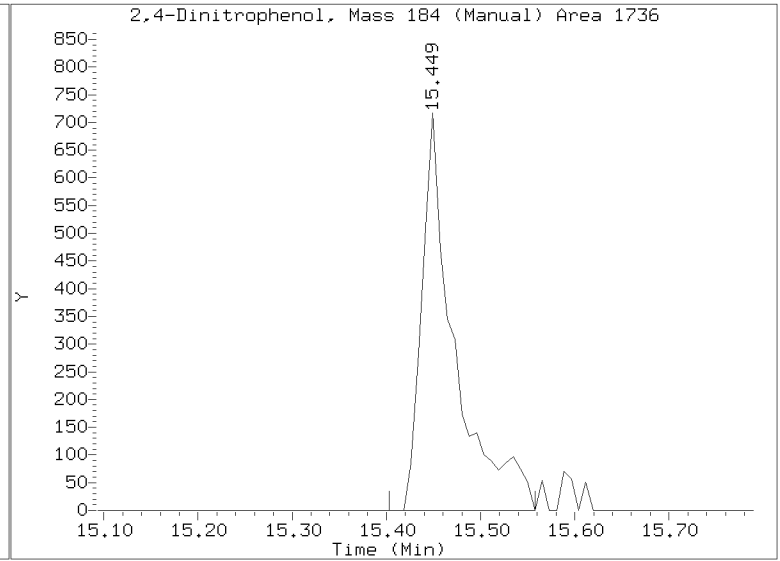
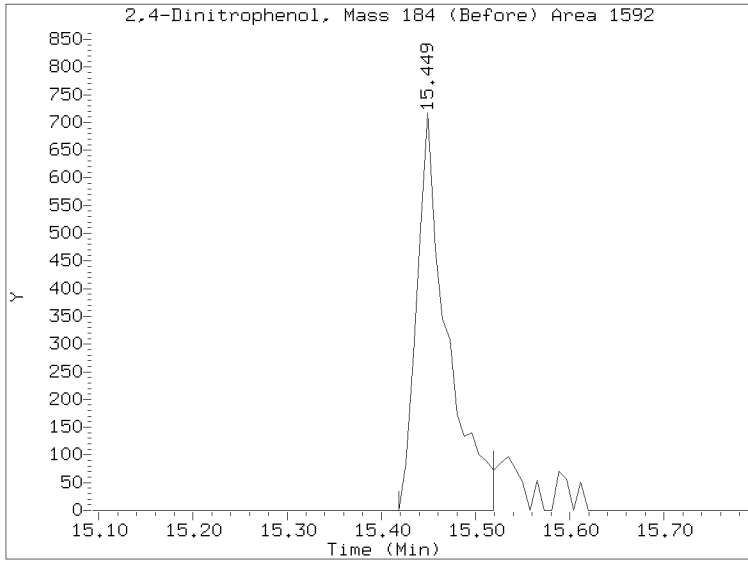
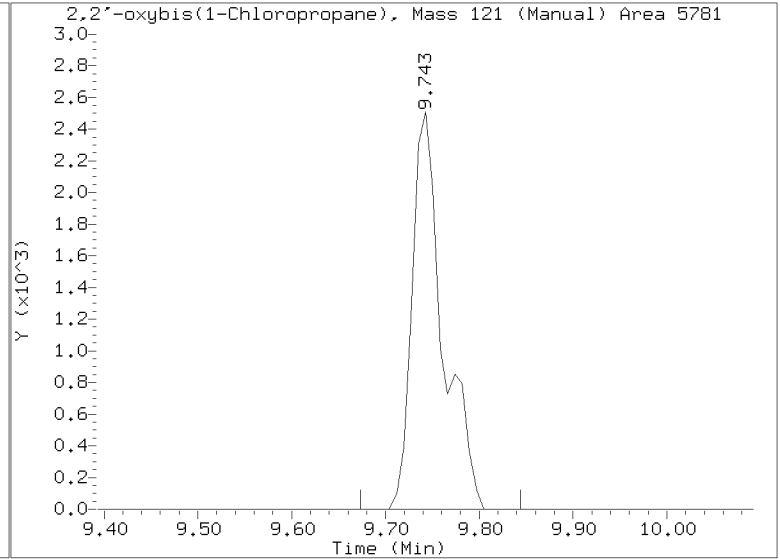
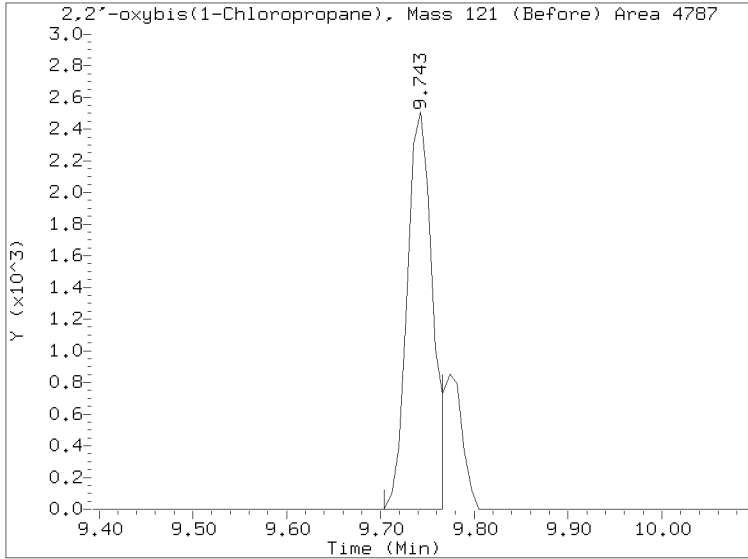
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* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

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Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

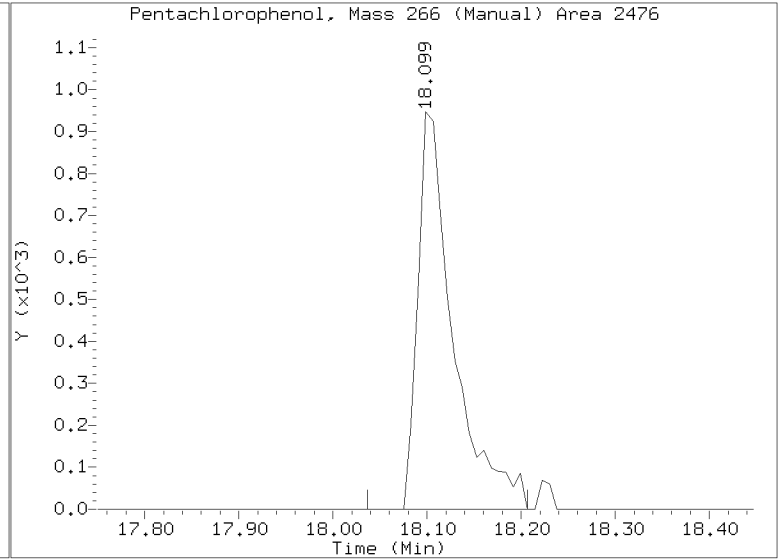
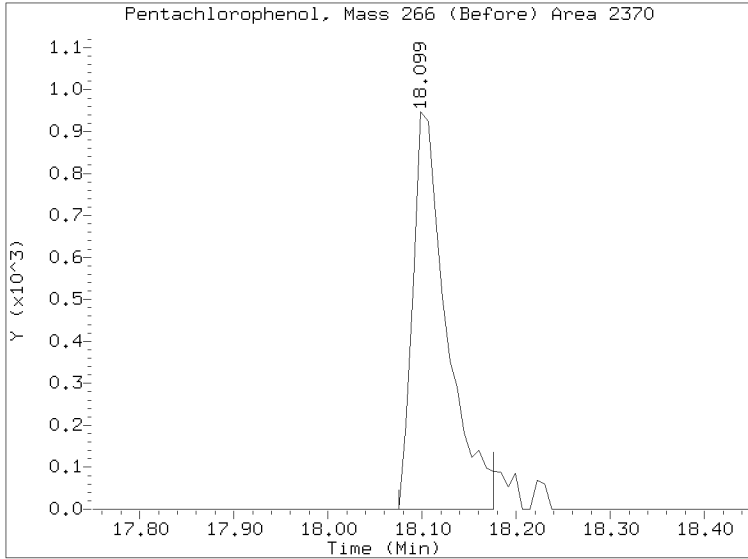
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By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

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Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123067.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-LCV3

Injection Time: 00:06

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0452070		13.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4830090		19.6	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7978250		23.1	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9130870		23.5	+/-50
1,4-Dichlorobenzene	A	0.20000	0.3	1.4674070	1.8357570		25.1	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7415680		21.0	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6620672		-17.4	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.5070412		21.5	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.4430610		10.4	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.5341616		-1.0	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.9367527		17.6	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4340820		4.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3740281		11.5	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4216317		-1.4	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2168104		5.8	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.4017339		14.7	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3923643		18.0	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3025220		2.5	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3830954		20.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1590590		17.7	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0558775		-73.8	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4111538		1.3	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1883993		19.0	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.3012374		8.2	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8194867		13.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.04	0.3023695	0.0305562		-89.9	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.3	0.3338641	0.2872967		-13.9	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.3471848		-9.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3420240		17.3	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.3230435		7.4	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9985900		14.6	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2056960		6.9	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2431273		-4.5	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2755250		17.9	+/-50

* Values outside of QC limits



LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123067.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-LCV3

Injection Time: 00:06

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.4	0.3094189	0.2756422		-10.9	+/-50
2,4-Dinitrophenol	A	0.80000	0.0	0.1831718				+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9513840		20.3	+/-50
4-Nitrophenol	A	0.40000	0.3	0.1384031	0.0992097		-33.0	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2959151		-15.3	+/-50
Fluorene	A	0.20000	0.2	1.7261350	2.0141620		16.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.8935724		5.7	+/-50
Diethyl phthalate	A	0.20000	0.3	1.5332690	1.9895800		29.8	+/-50
4-Nitroaniline	A	0.40000	0.4	0.3413732	0.3480173		-6.5	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.09	0.1530278	0.0194293		-88.4	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.3	0.6863845	0.8609555		25.4	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2900591		11.6	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3377450		18.4	+/-50
Pentachlorophenol	A	0.40000	0.02	0.1128364	0.0062489		-94.9	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2493590		19.8	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.1560500		16.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.1107300		15.4	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.2348590		13.6	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.5332460		19.0	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.5802070		16.7	+/-50
Butylbenzylphthalate	A	0.20000	0.3	0.4650792	0.6893559		34.9	+/-50
Benzo(a)anthracene	A	0.20000	0.3	1.2117210	1.5989020		32.0	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.8	0.3709370	0.5065069		36.5	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3899140		21.4	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.3	0.4442323	0.5799243		30.5	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1806330		23.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5993190		31.6	+/-50
Benzo(a)pyrene	A	0.20000	0.3	1.0450150	1.3188060		26.2	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8873690		-25.3	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.0094890	0.7614674		-24.6	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.5264336		-47.1	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.7885066		13.7	+/-50
2-Fluorophenol	A	0.30000	0.357	1.2814900	1.5232620		18.9	+/-50
Phenol-d5	A	0.30000	0.312	1.5836890	1.6462810		4.0	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123067.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-LCV3

Injection Time: 00:06

Sequence Name: ABN 0.2

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.337	1.3300510	1.4929650		12.3	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.240	0.9090592	1.0925120		20.2	+/-50
Nitrobenzene-d5	A	0.20000	0.227	0.3377760	0.3825413		13.3	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.4982320		11.4	+/-50
2,4,6-Tribromophenol	A	0.30000	0.225	0.1844845	0.1403103		-25.1	+/-50
p-Terphenyl-d14	A	0.20000	0.222	0.9601842	1.0669730		11.1	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123067.D

Date: 01-JAN-2023 00:06

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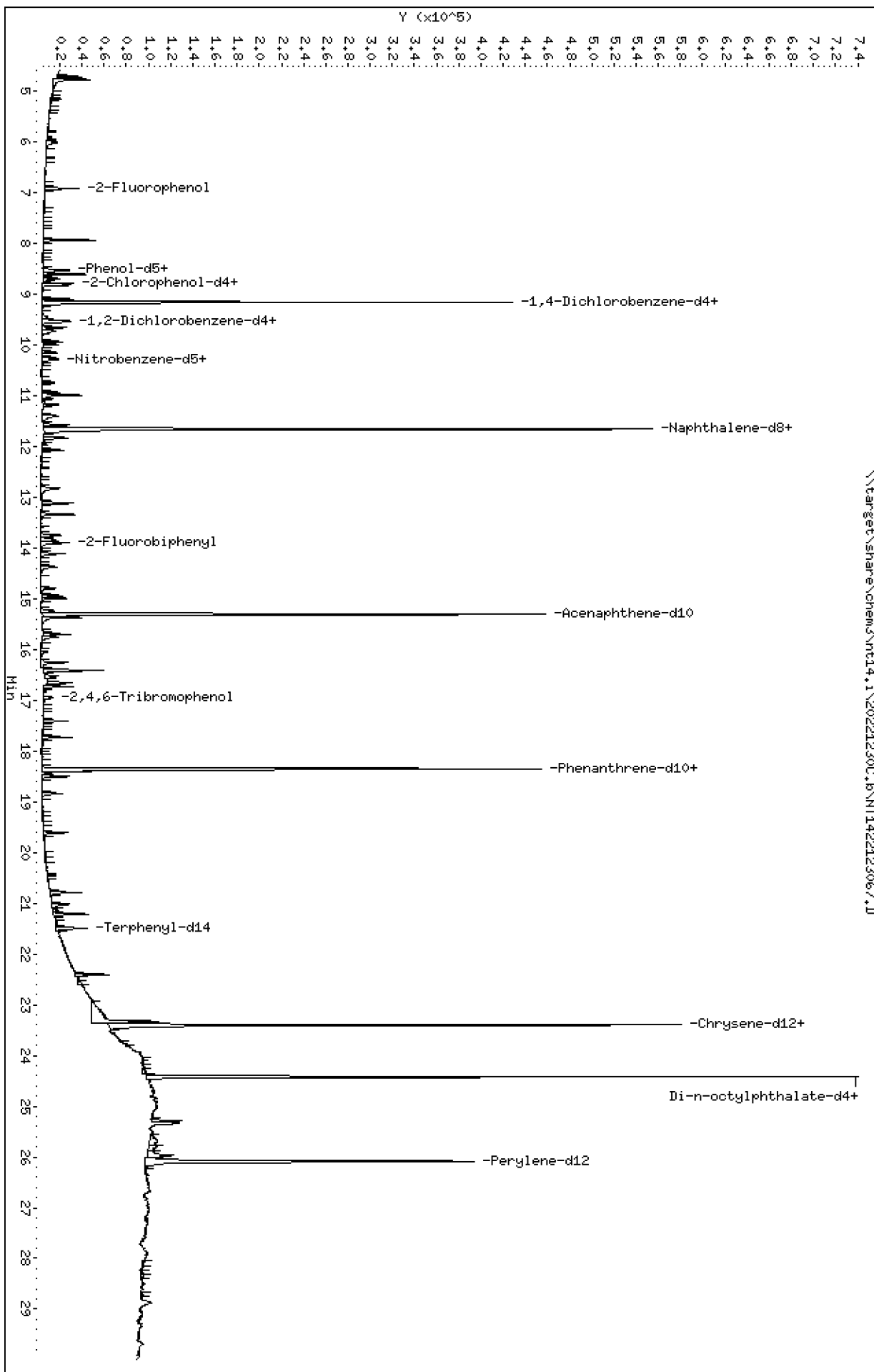
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Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

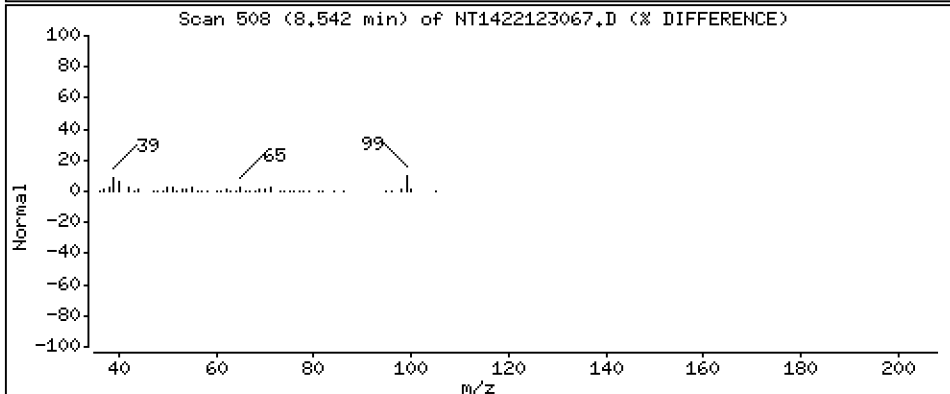
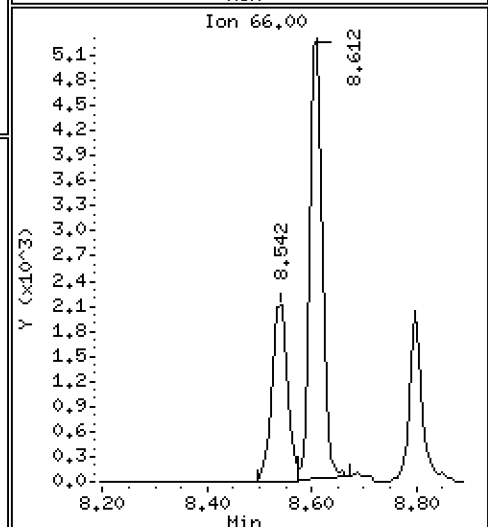
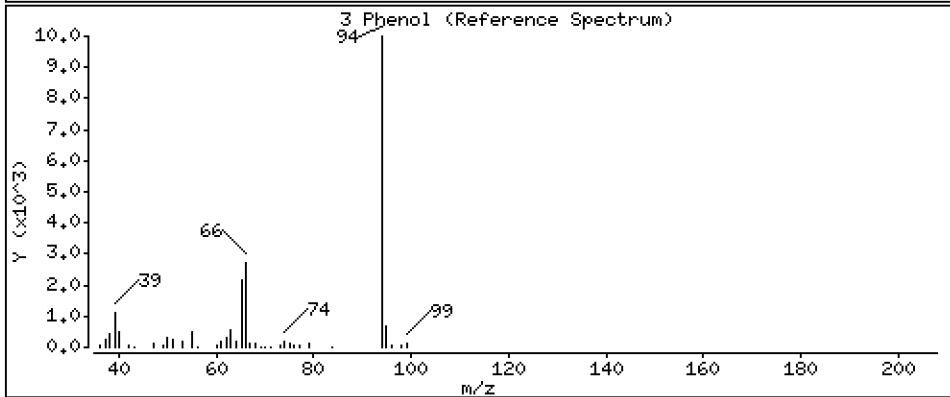
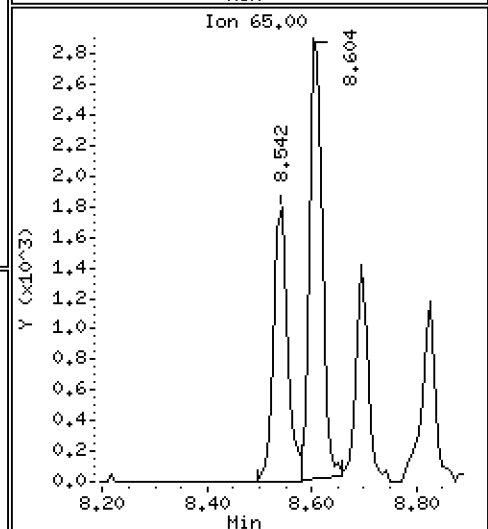
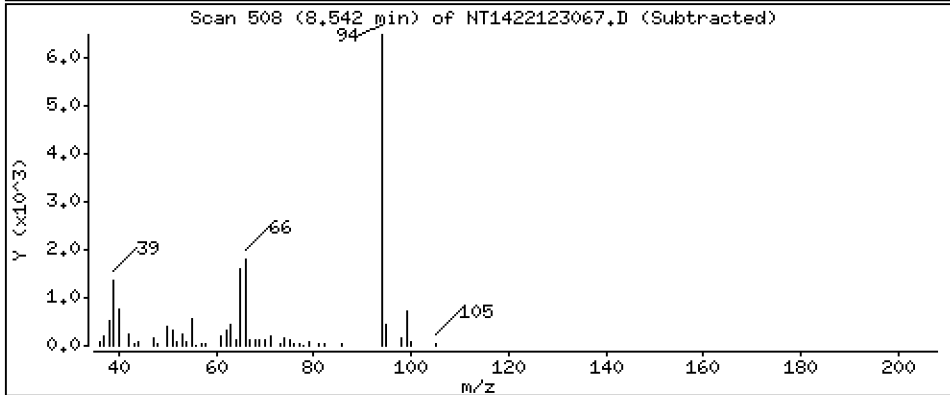
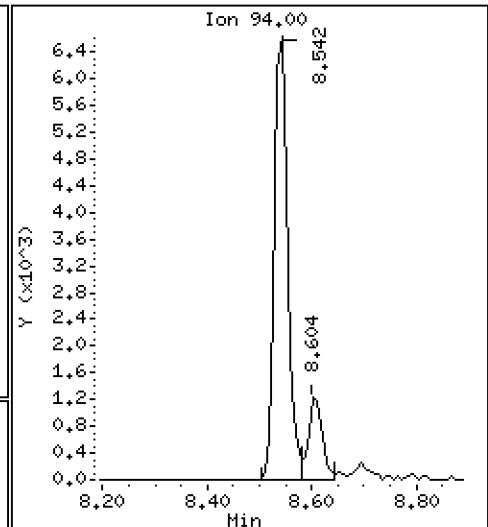
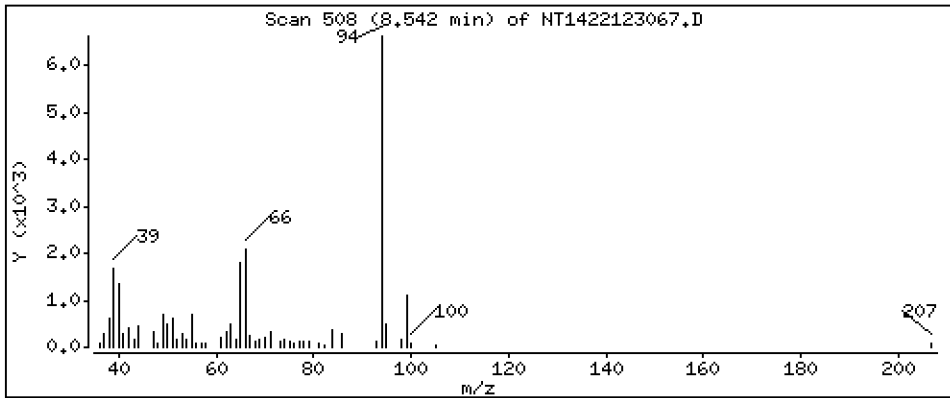
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

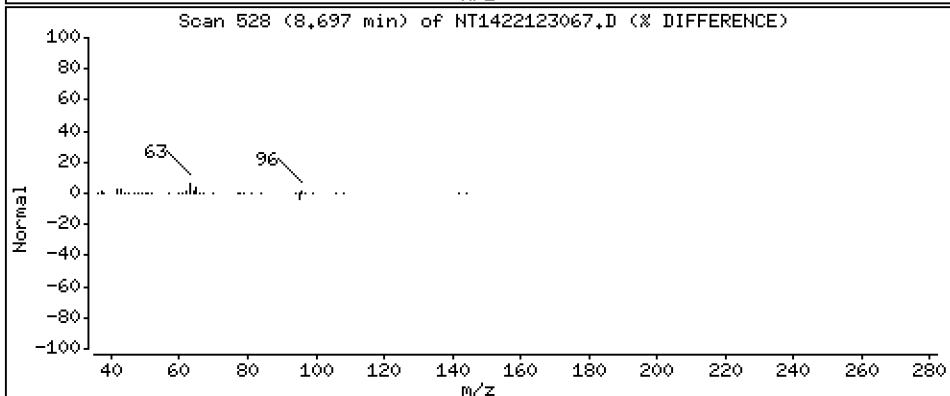
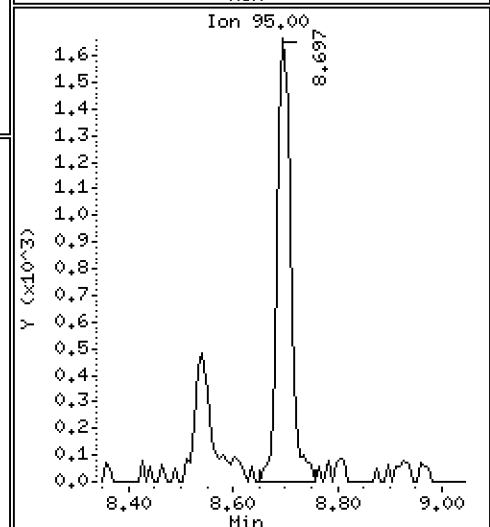
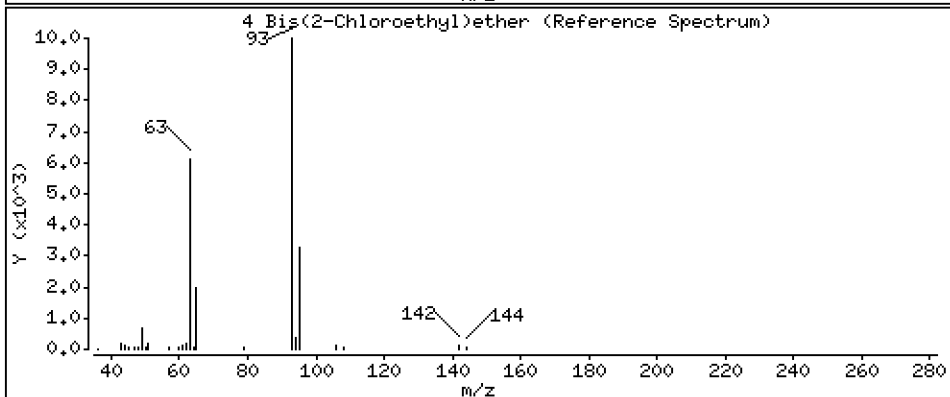
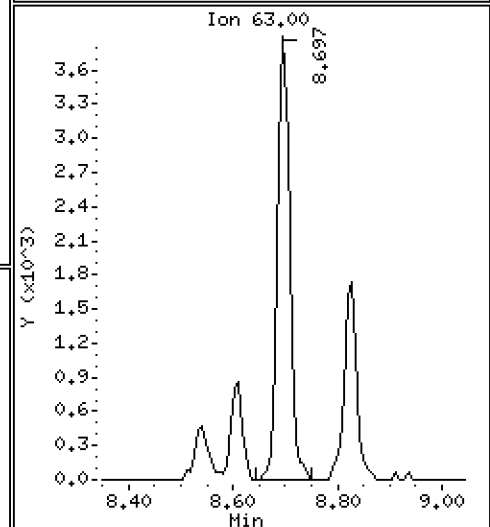
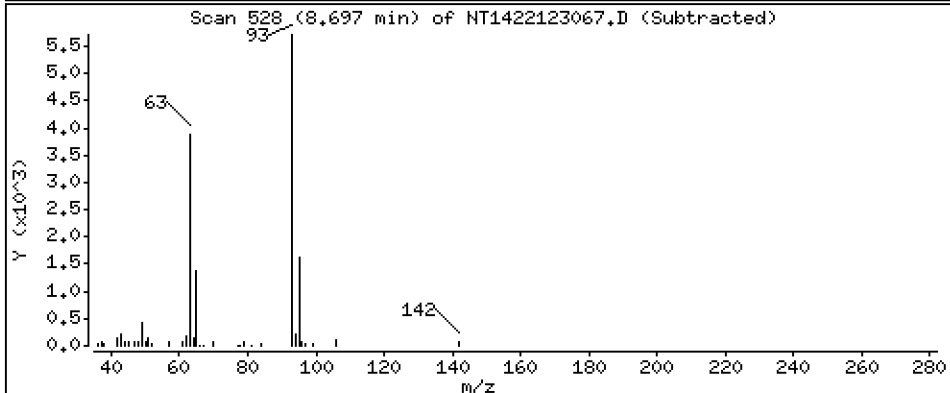
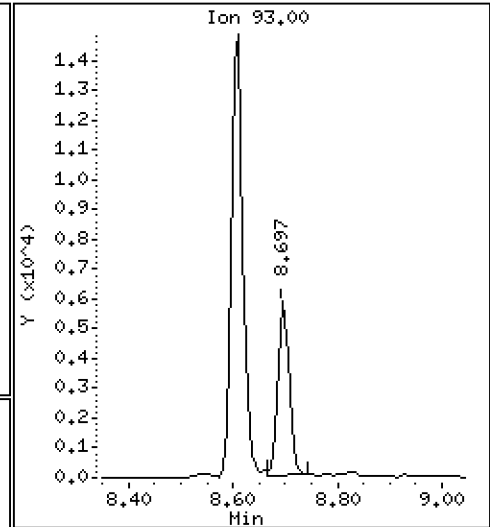
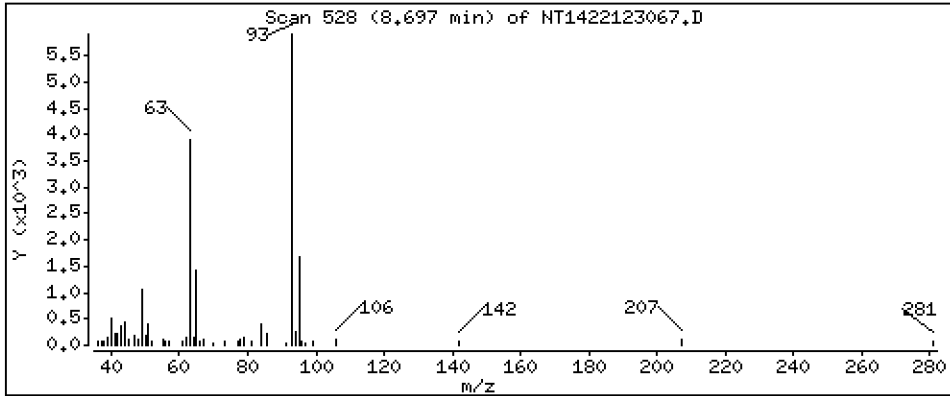
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,2393 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

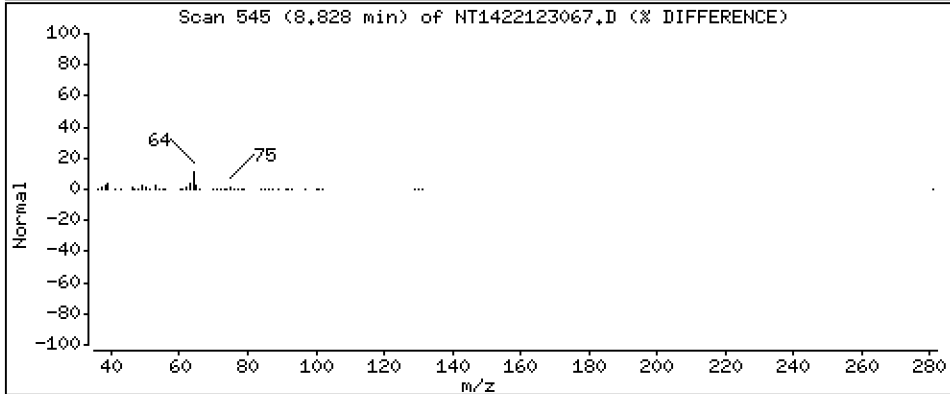
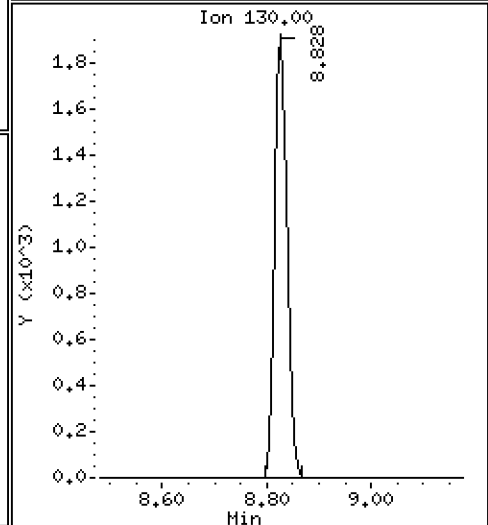
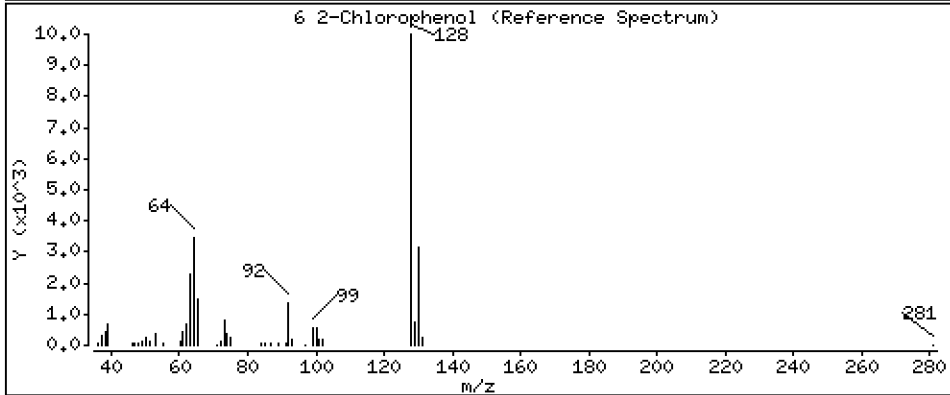
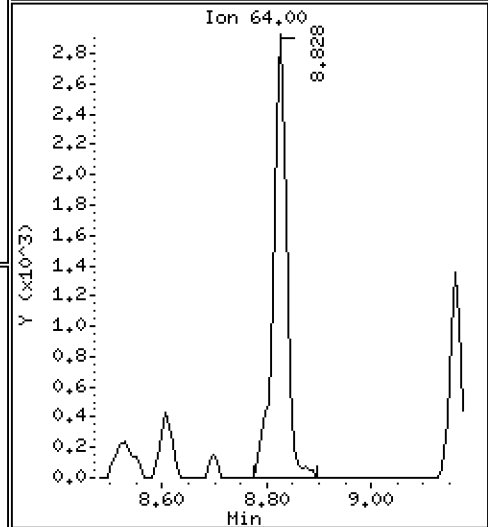
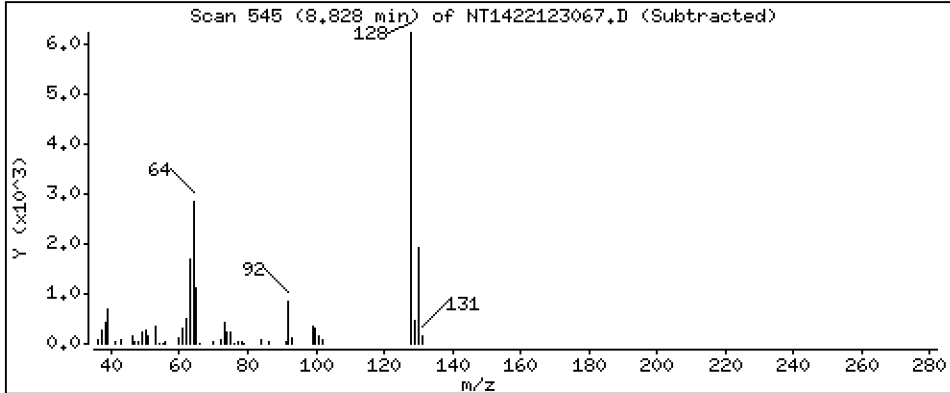
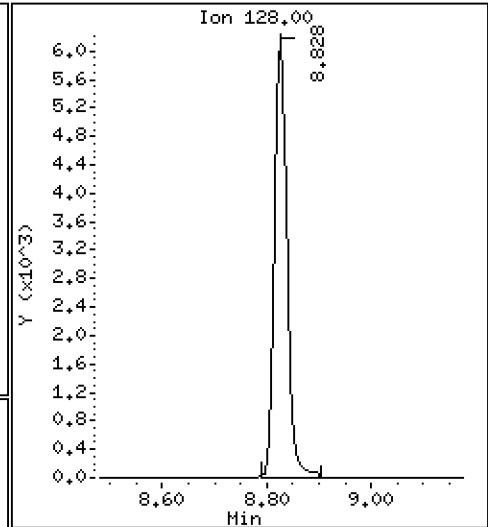
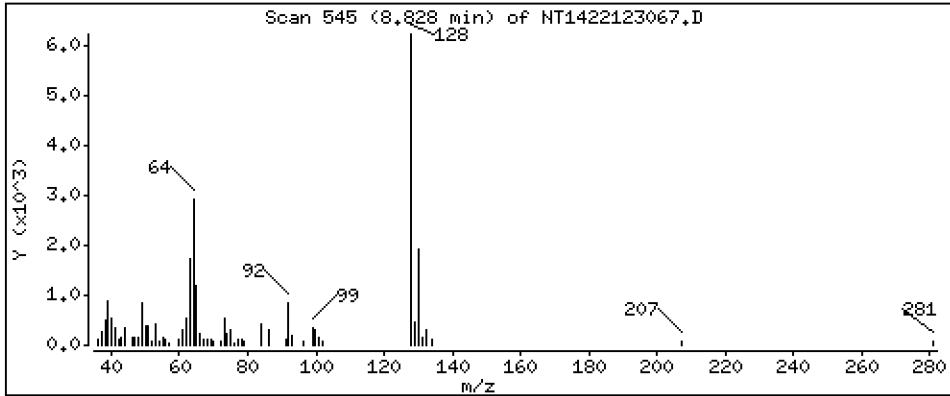
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,2462 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

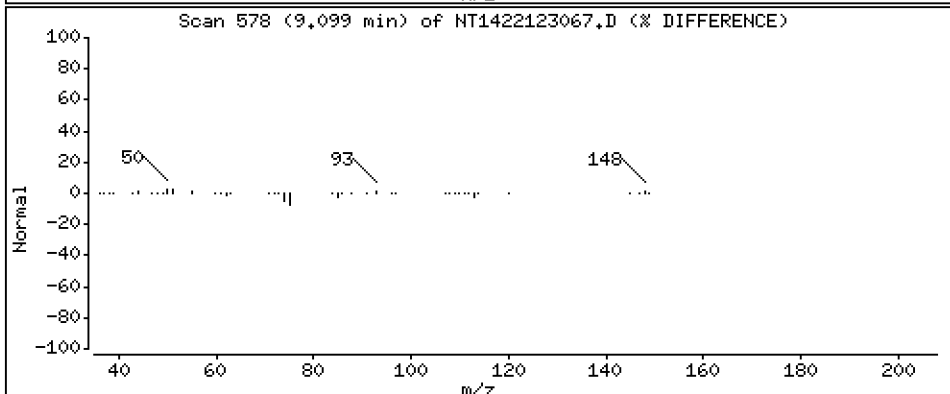
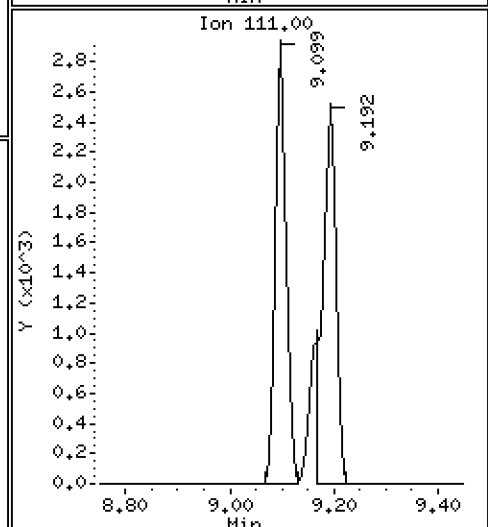
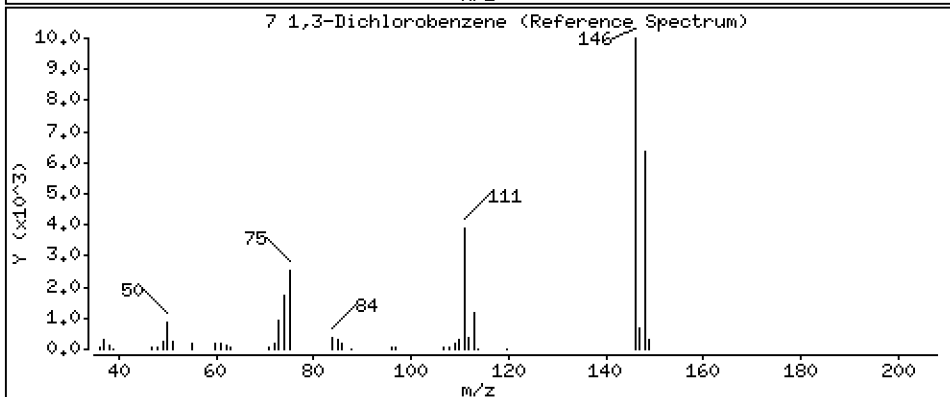
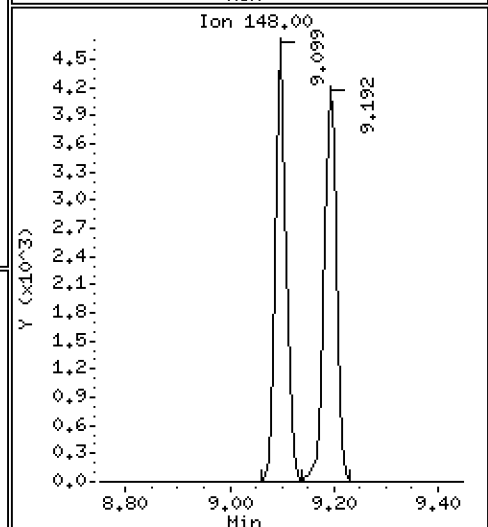
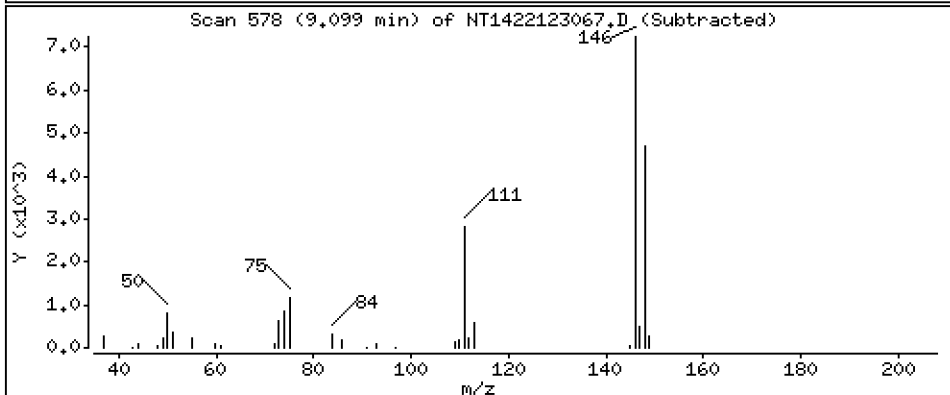
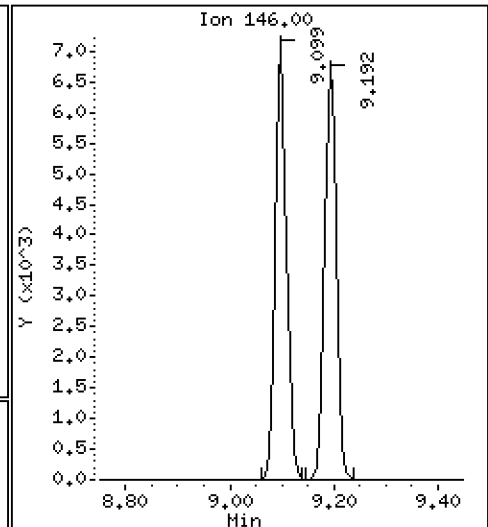
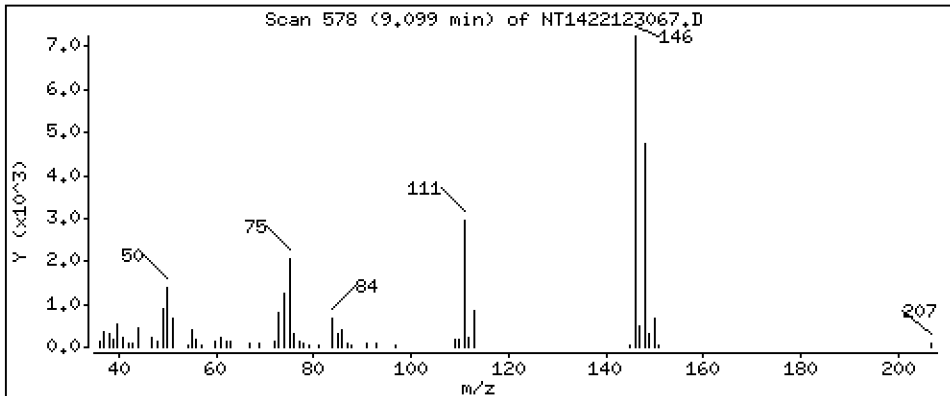
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.2470 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

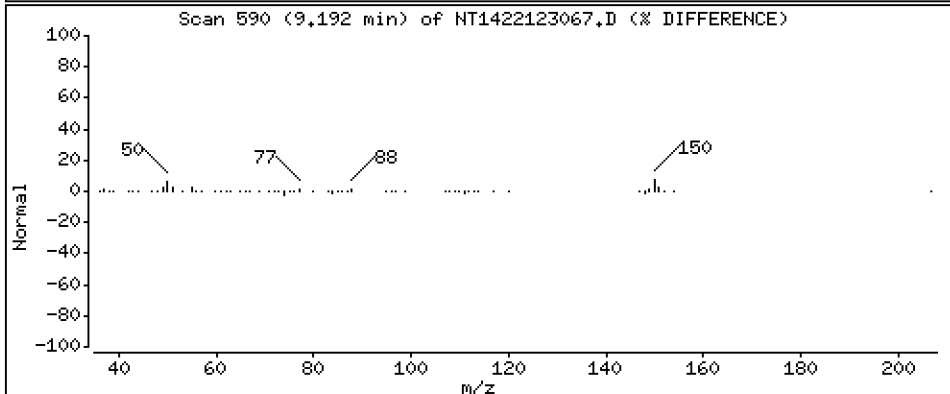
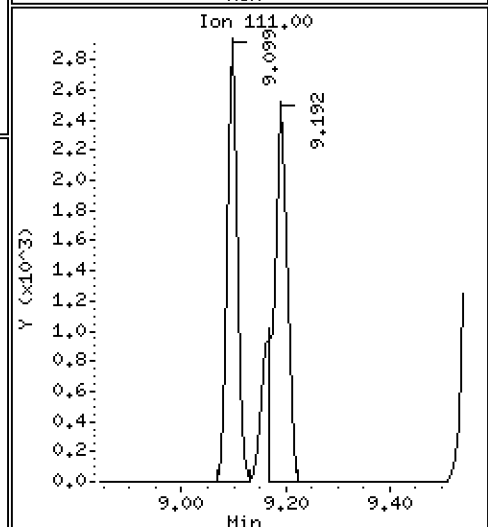
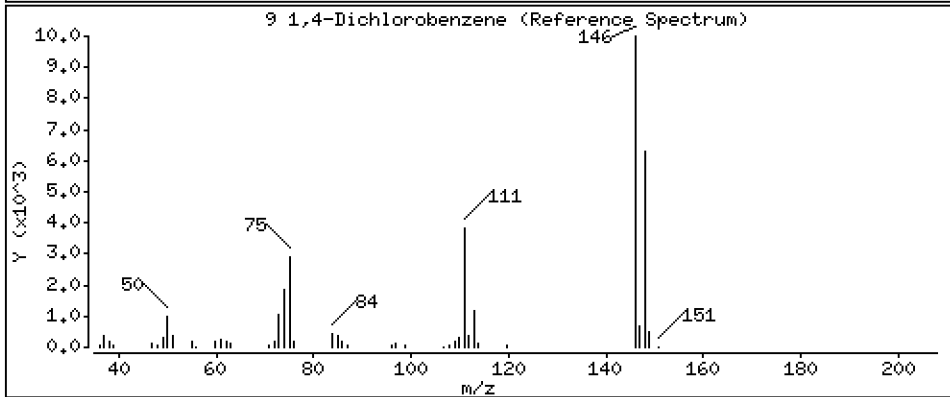
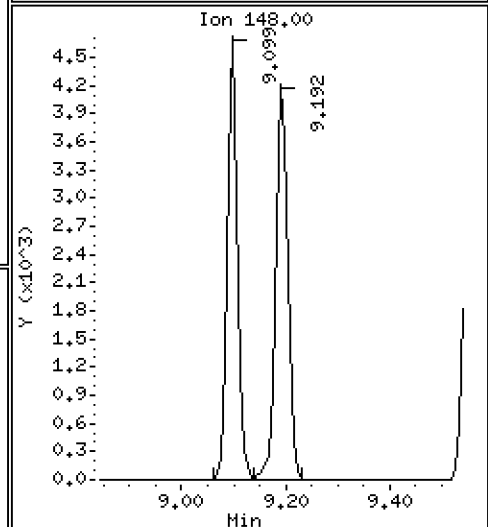
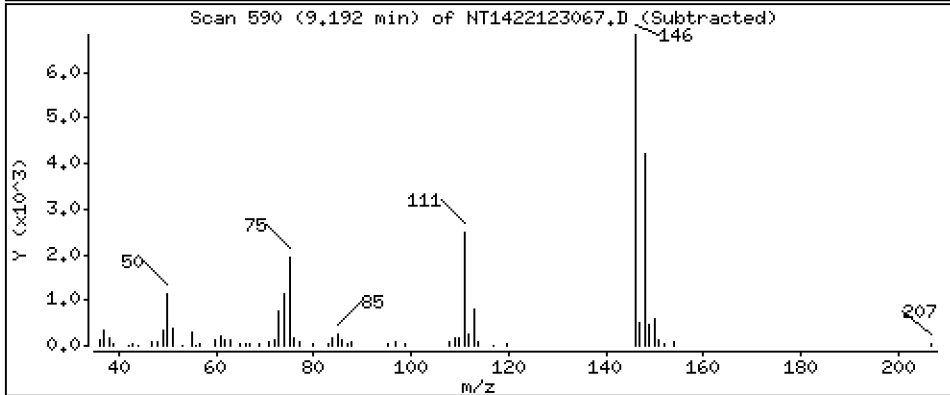
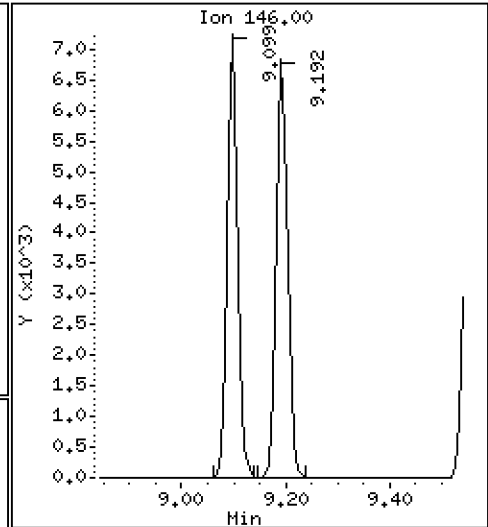
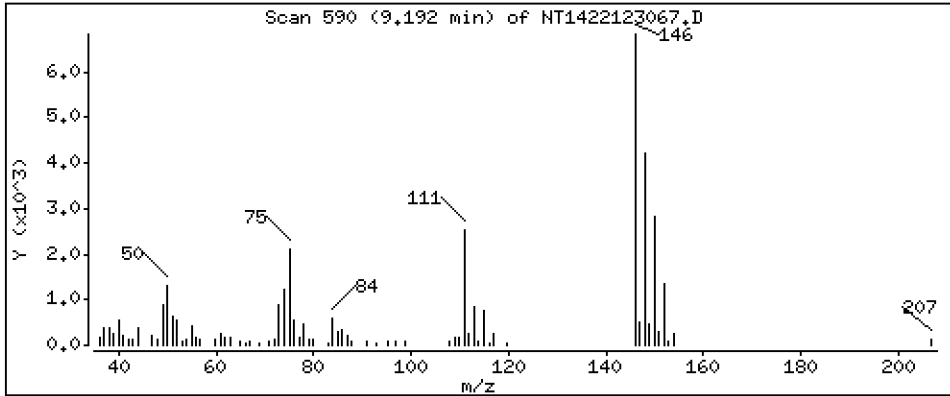
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

9 1,4-Dichlorobenzene

Concentration: 0,2502 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

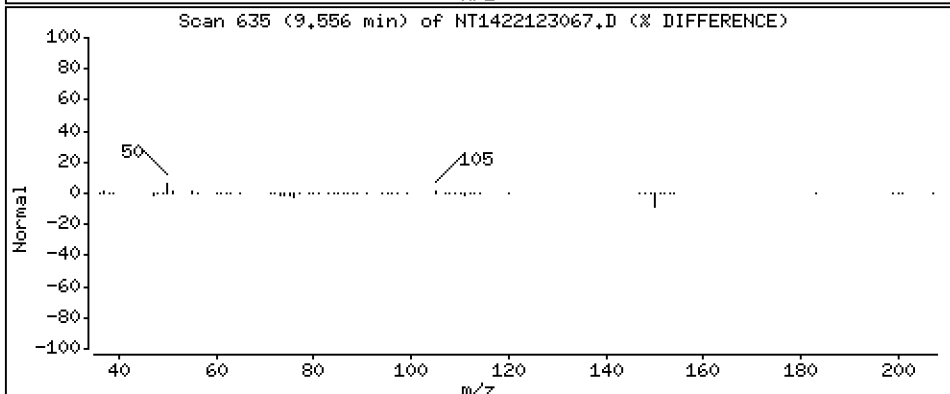
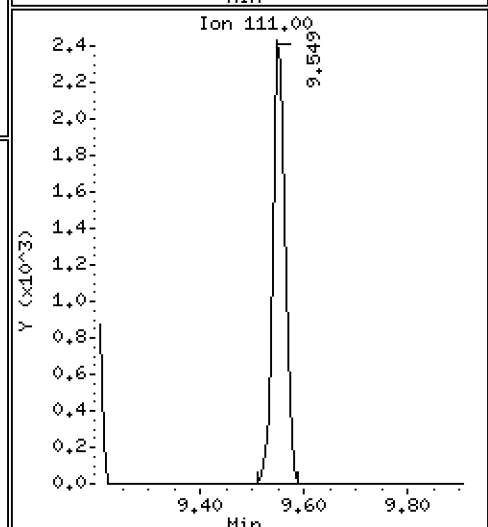
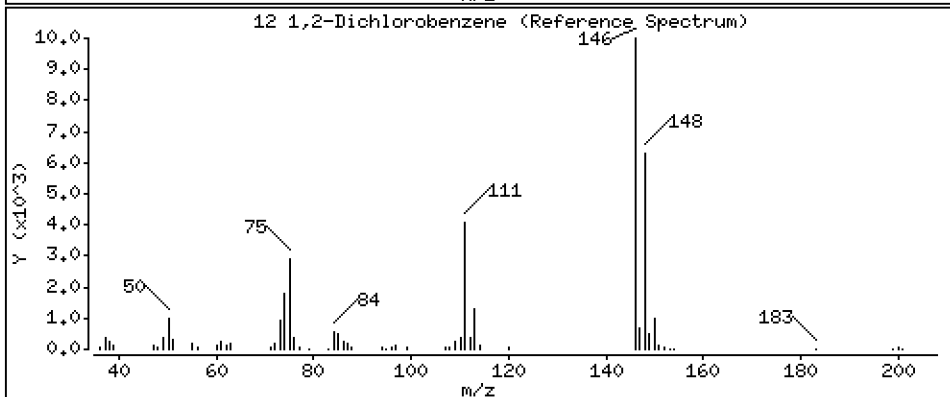
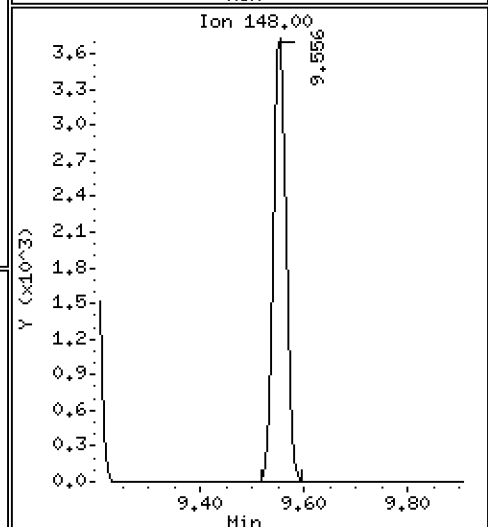
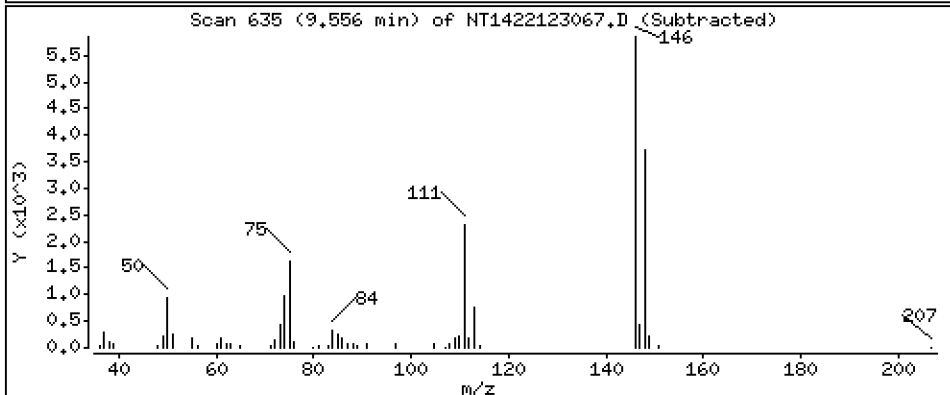
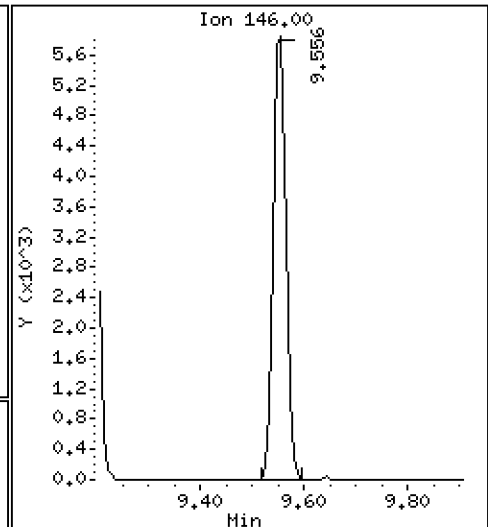
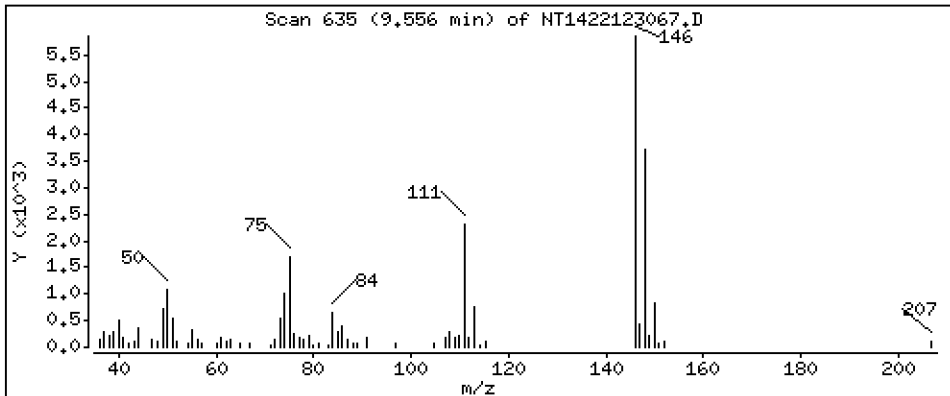
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

12 1,2-Dichlorobenzene

Concentration: 0,2420 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

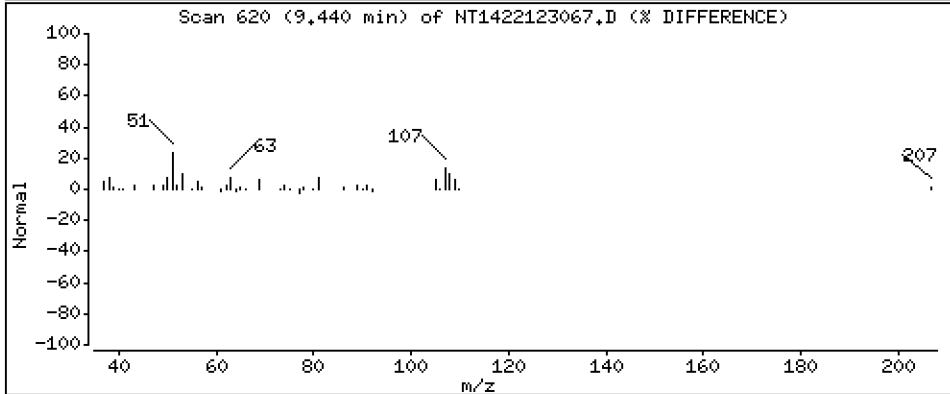
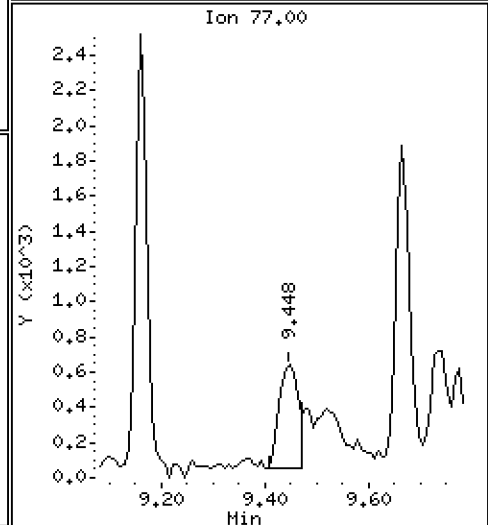
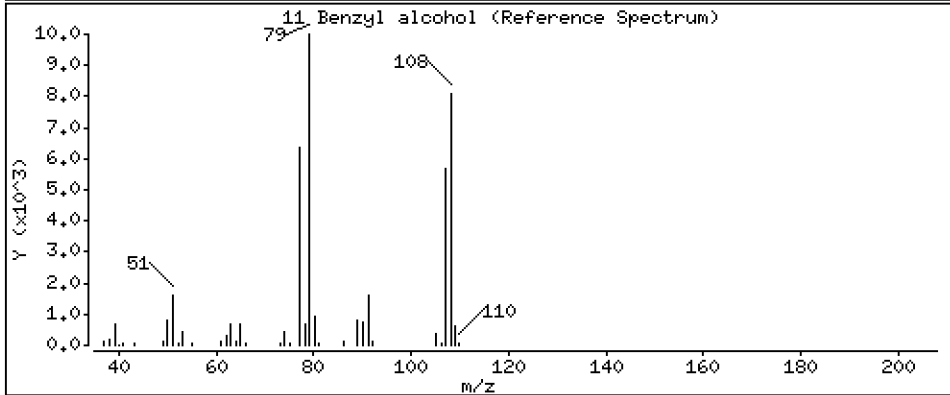
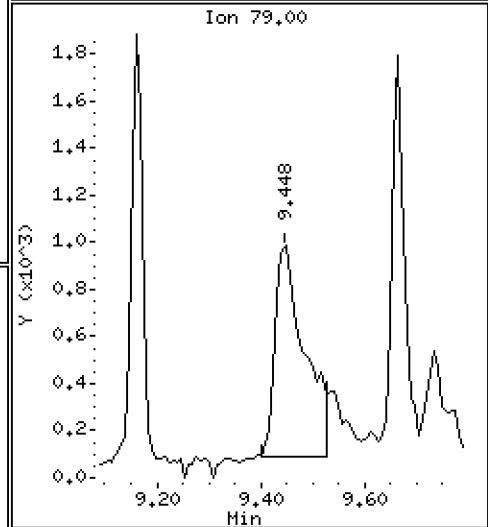
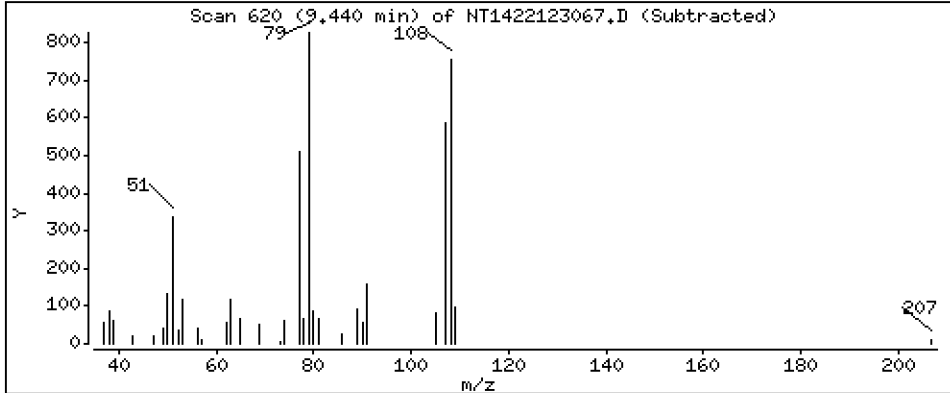
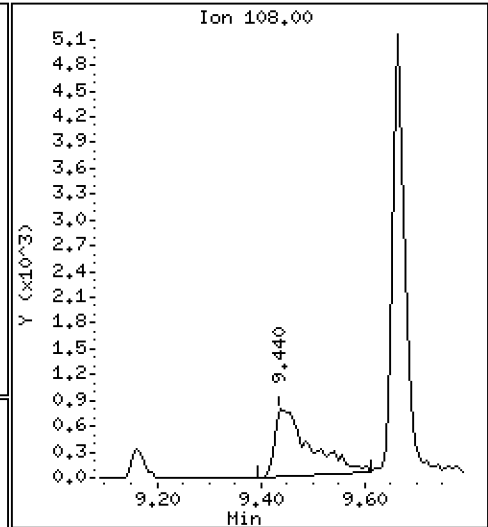
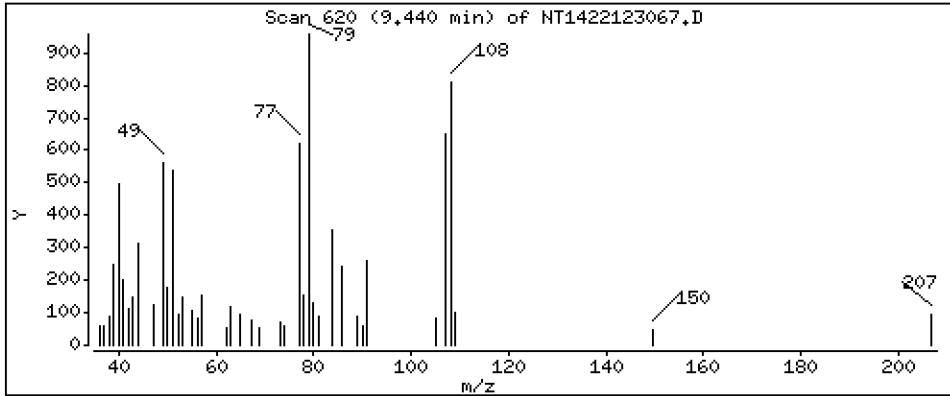
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.1653 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

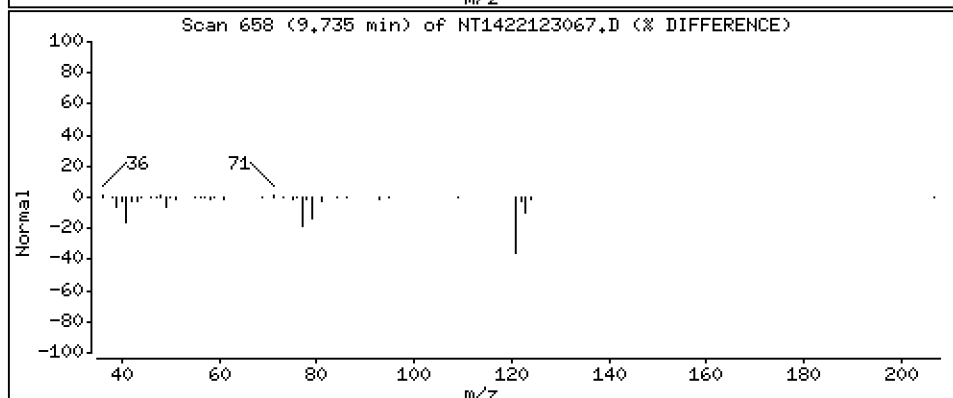
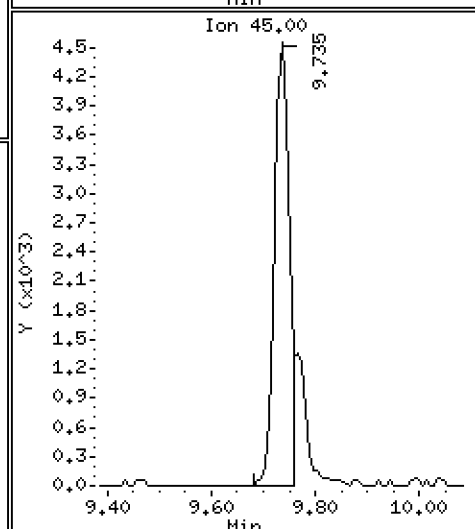
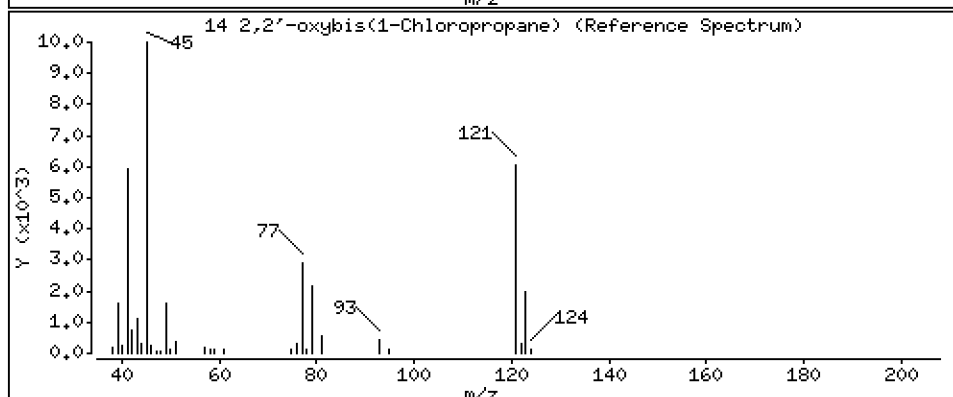
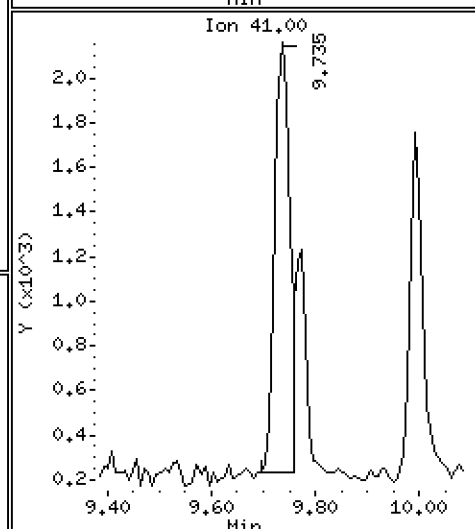
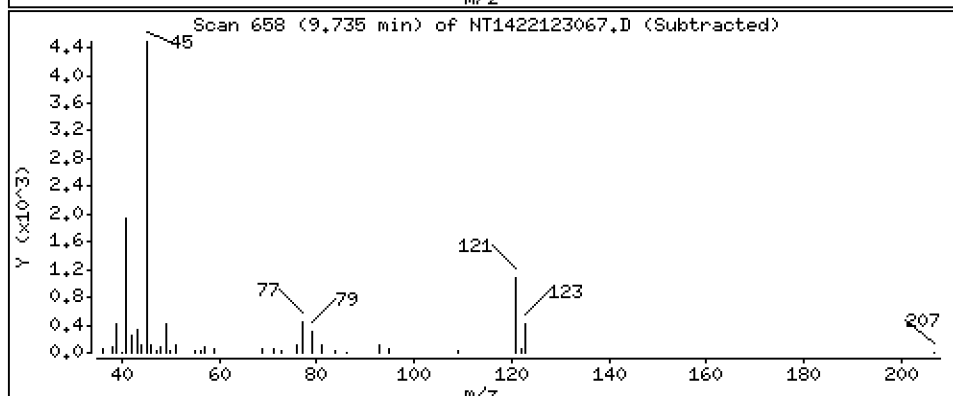
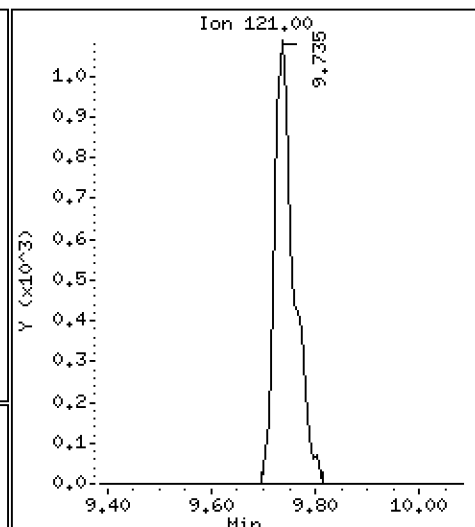
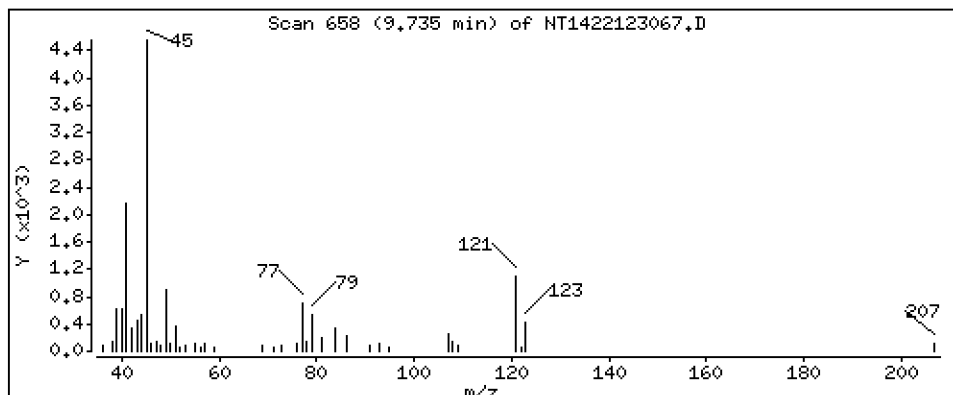
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2430 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

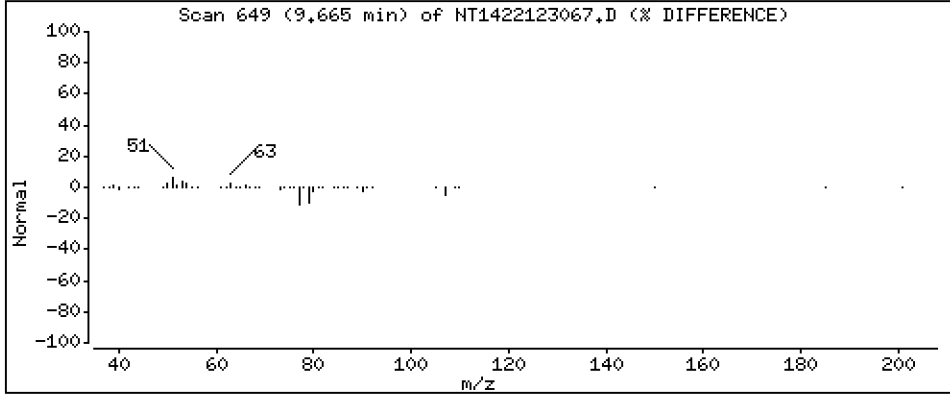
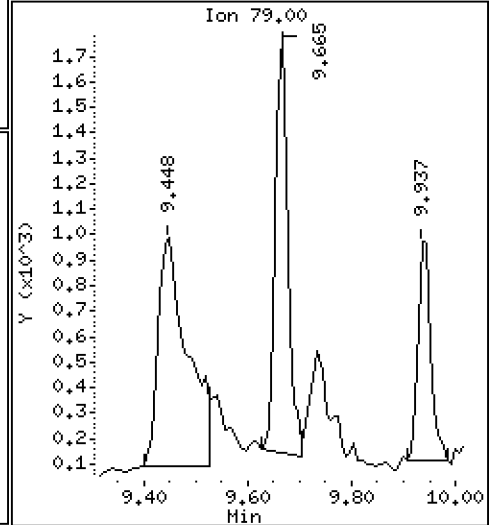
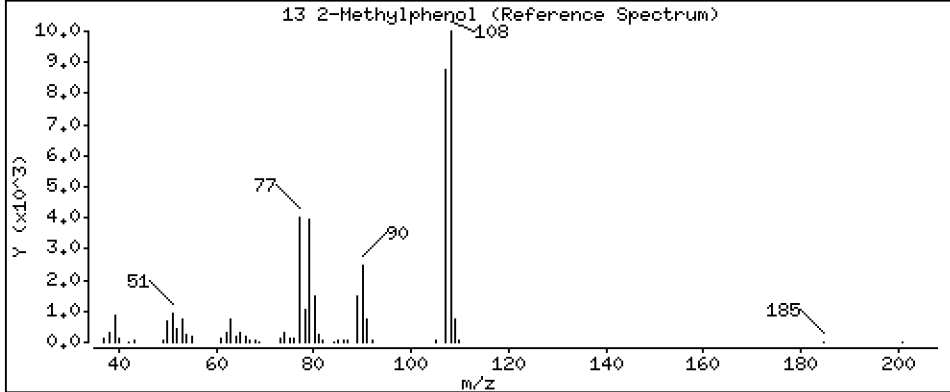
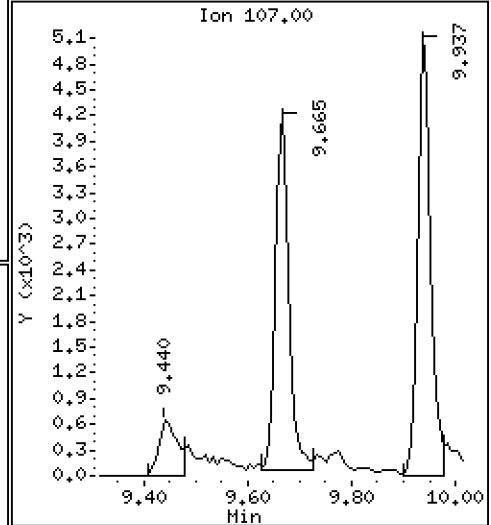
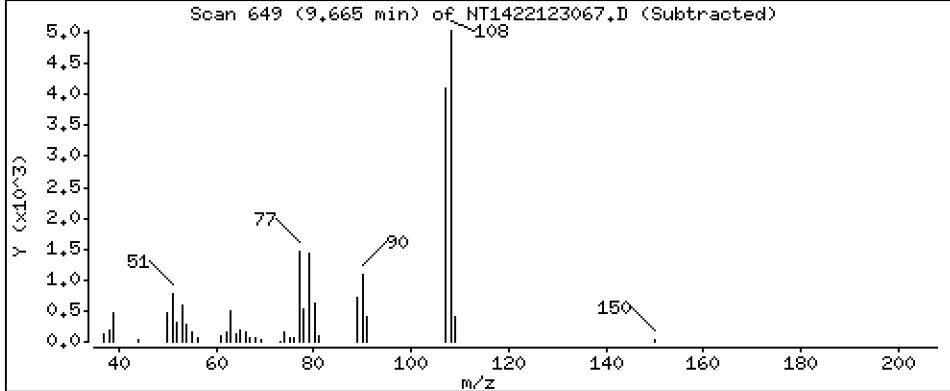
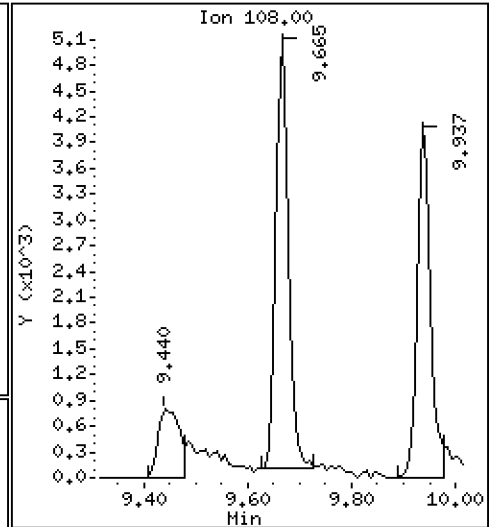
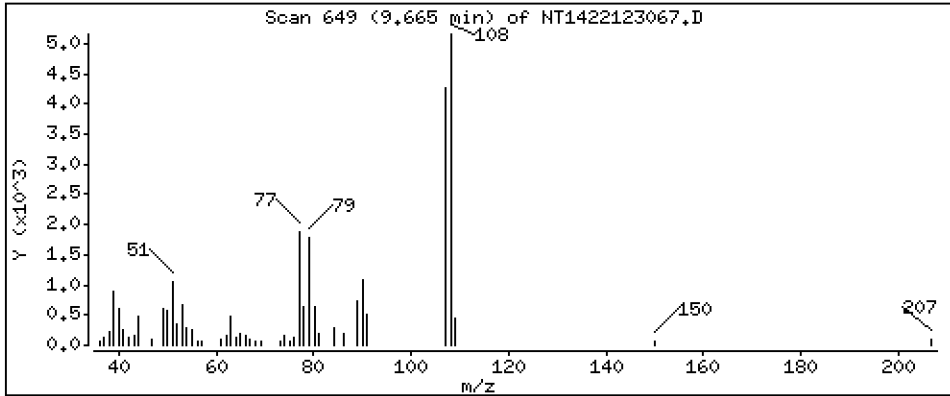
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

13 2-Methylphenol

Concentration: 0.2207 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

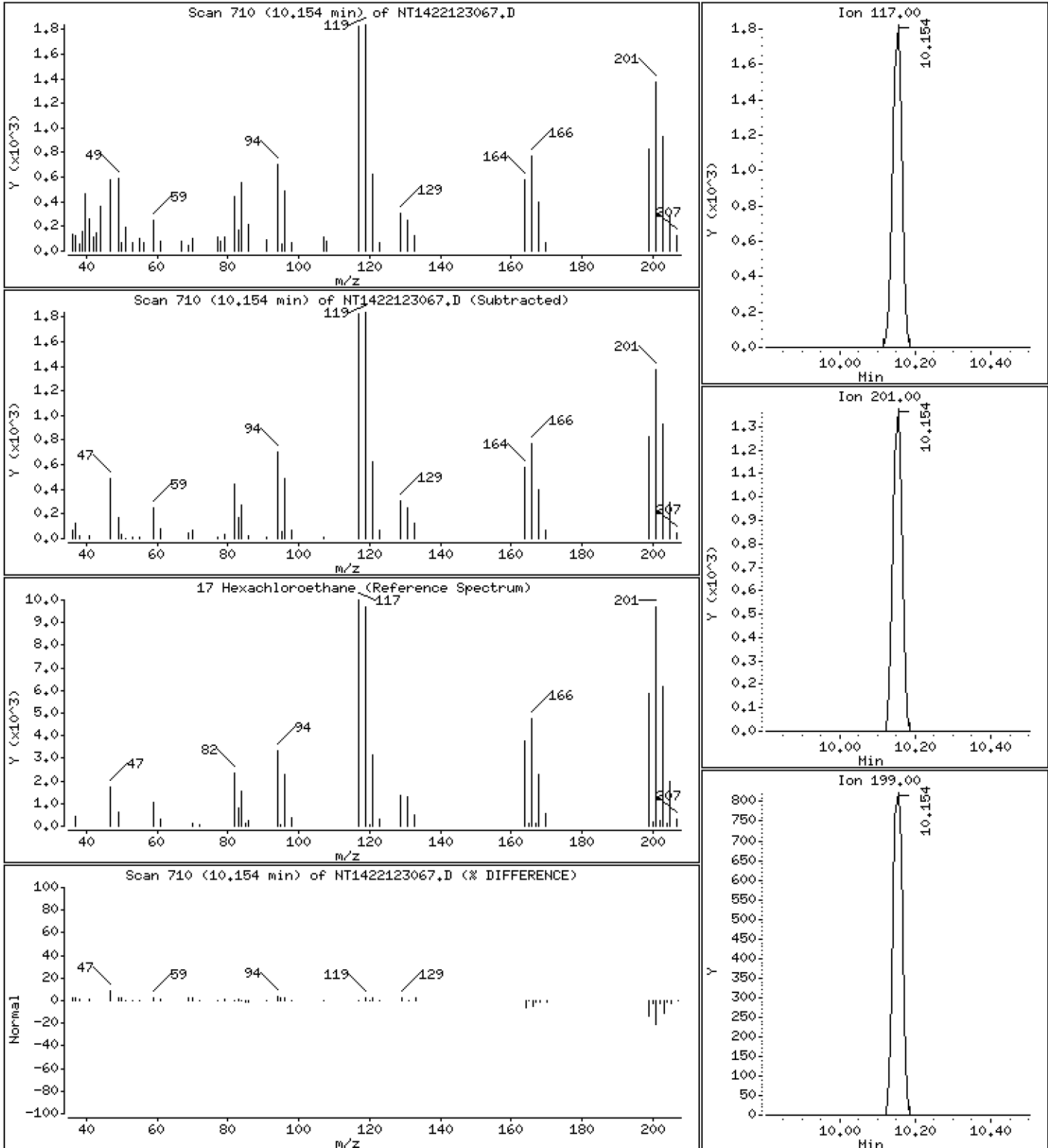
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,1979 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

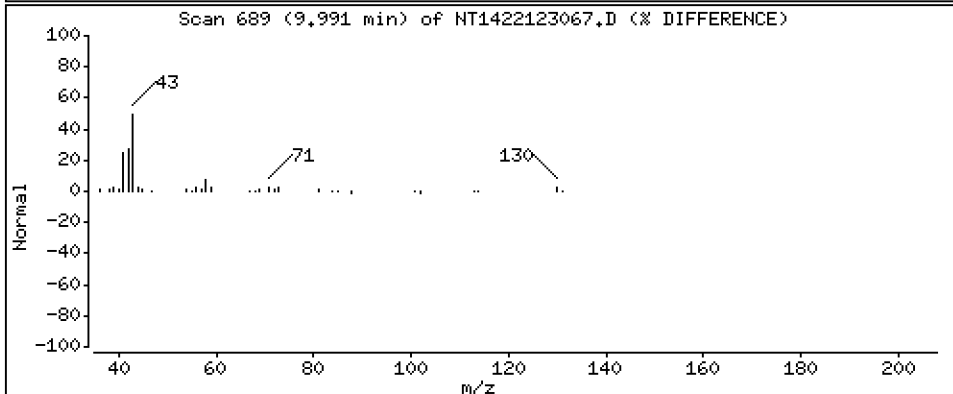
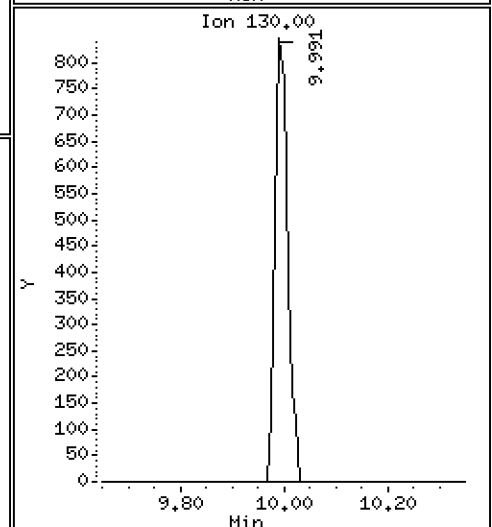
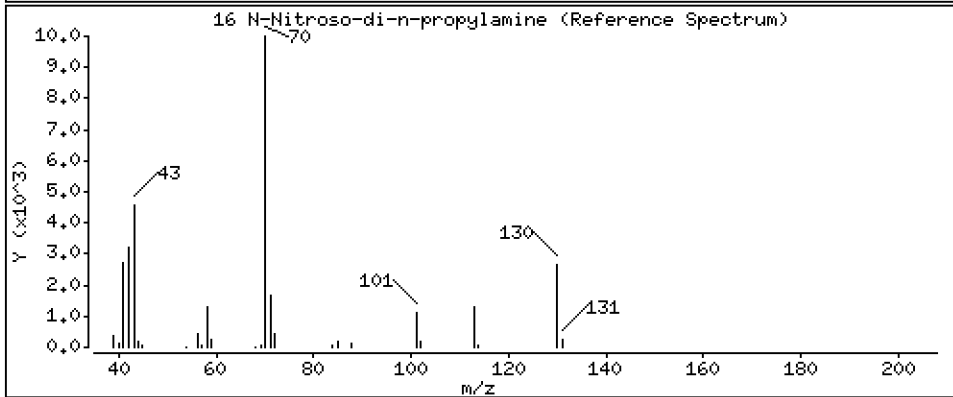
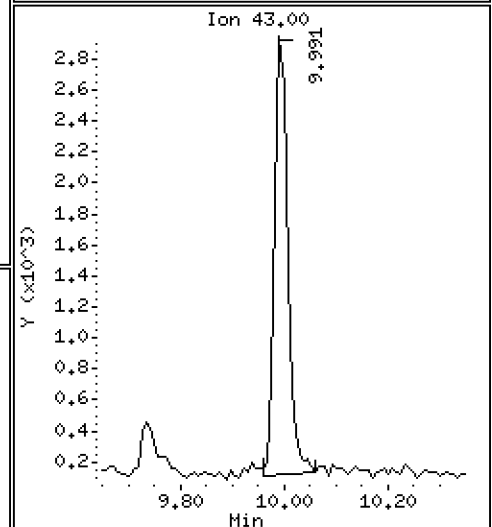
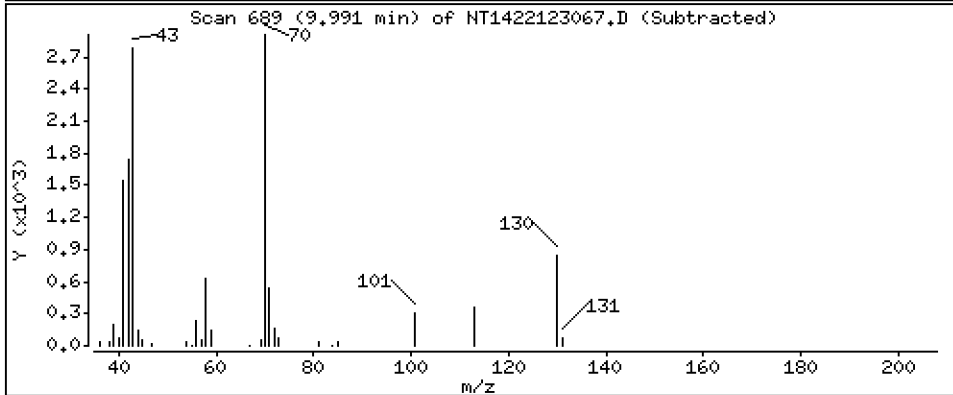
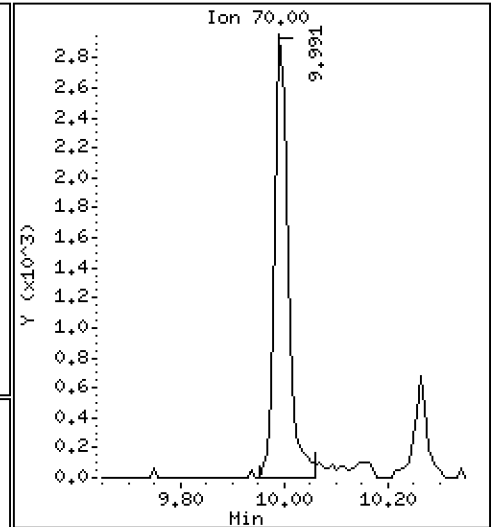
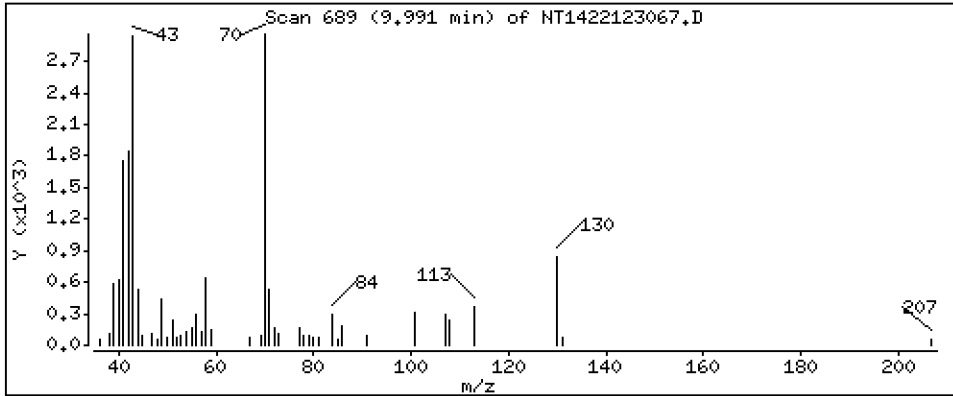
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

16 N-Nitroso-di-n-propylamine

Concentration: 0.2352 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

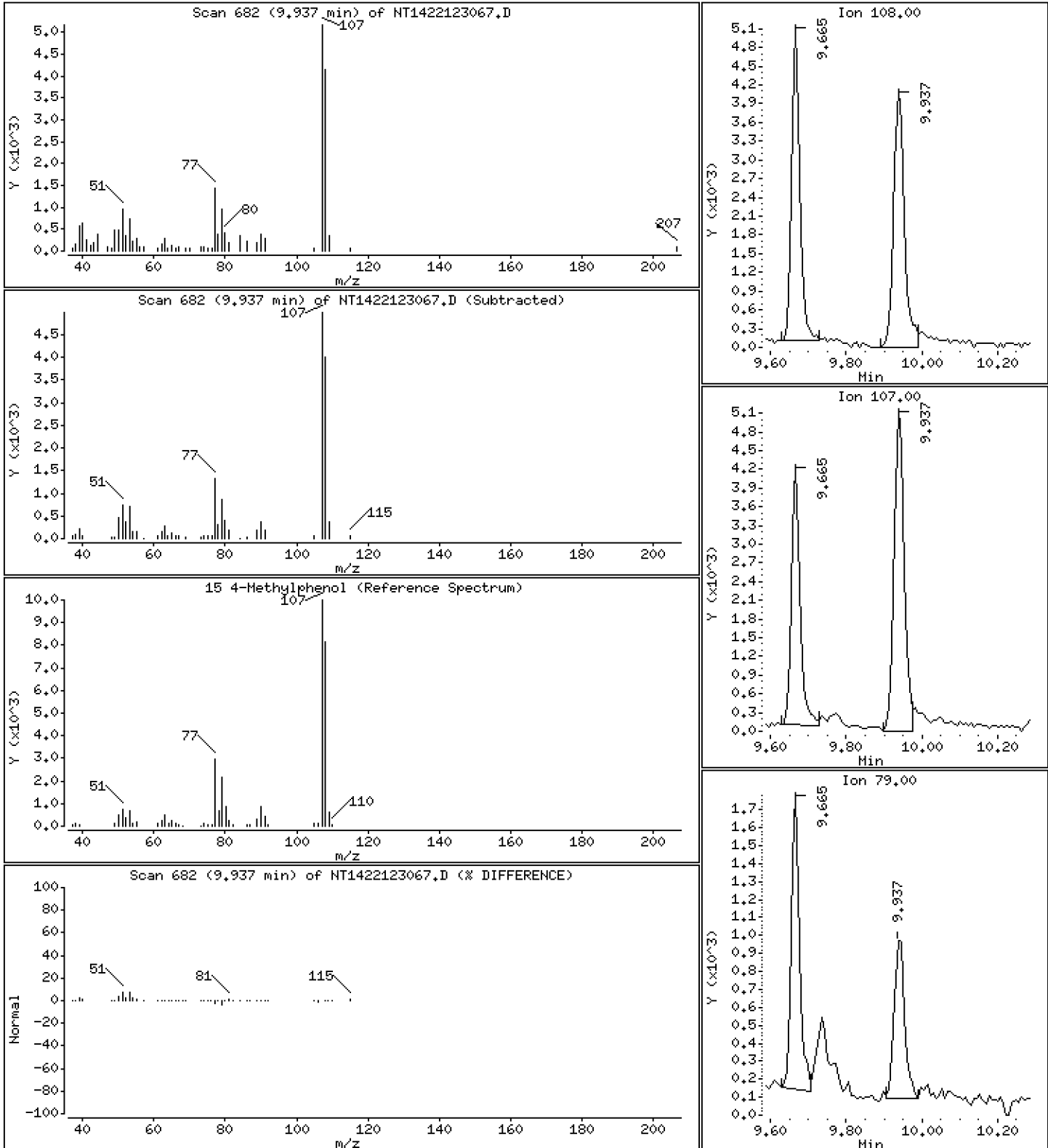
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

15 4-Methylphenol

Concentration: 0,2079 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

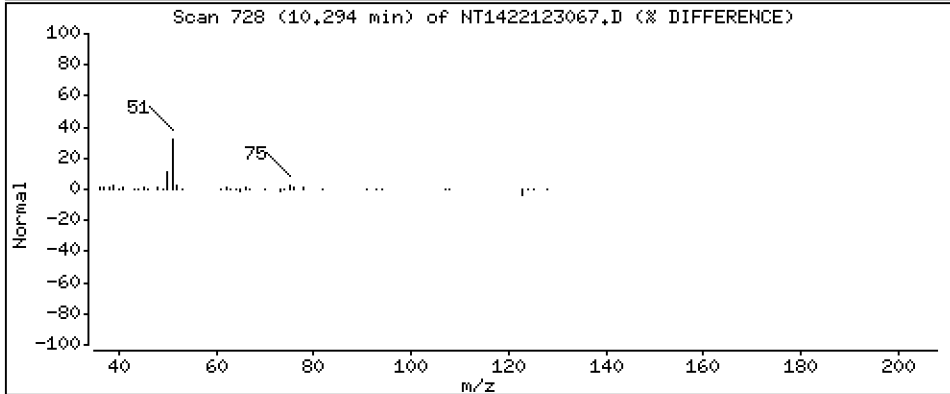
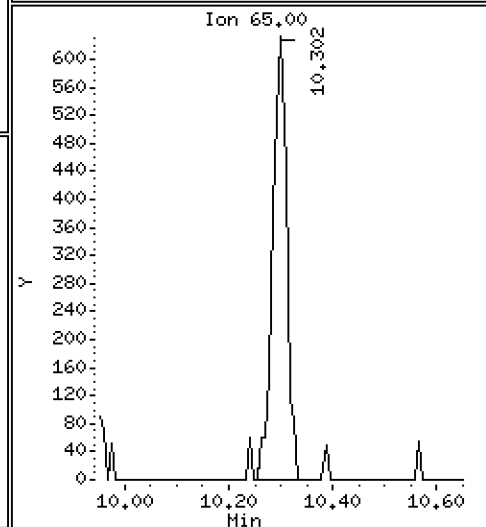
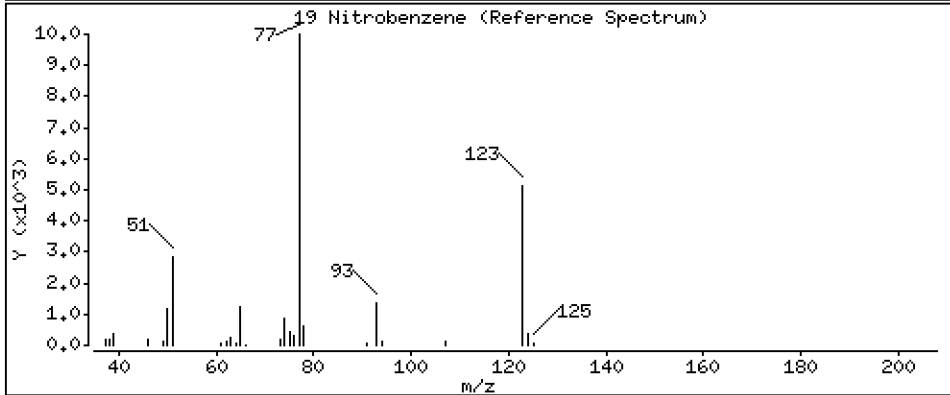
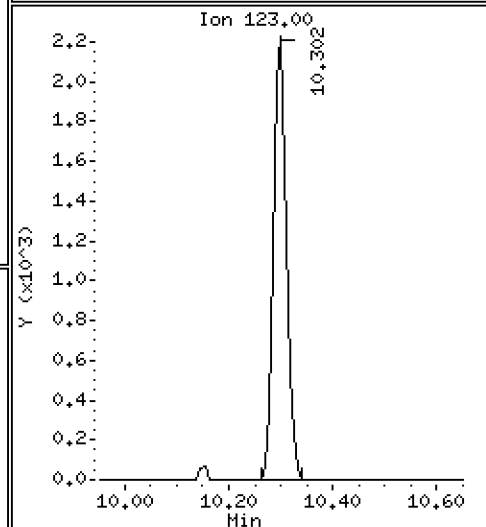
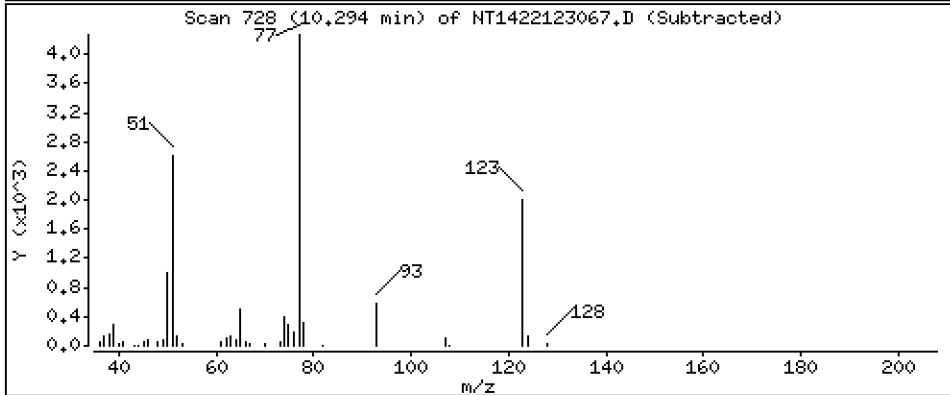
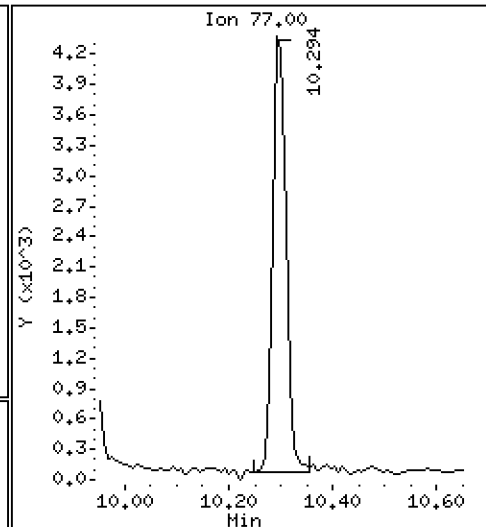
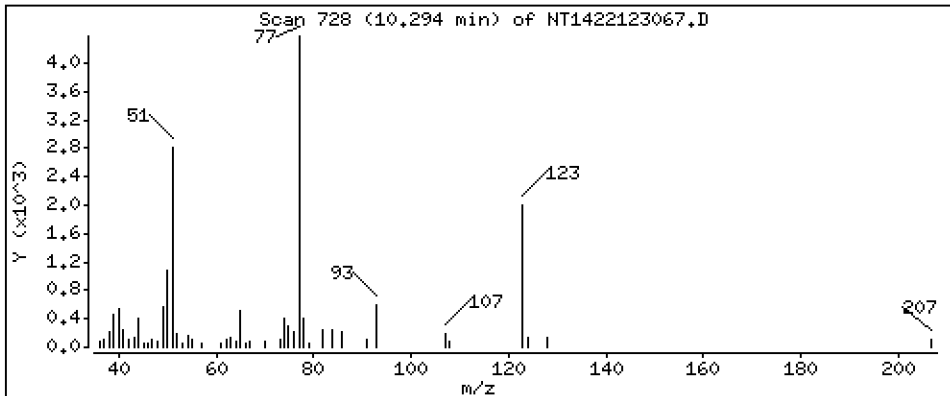
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,2230 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

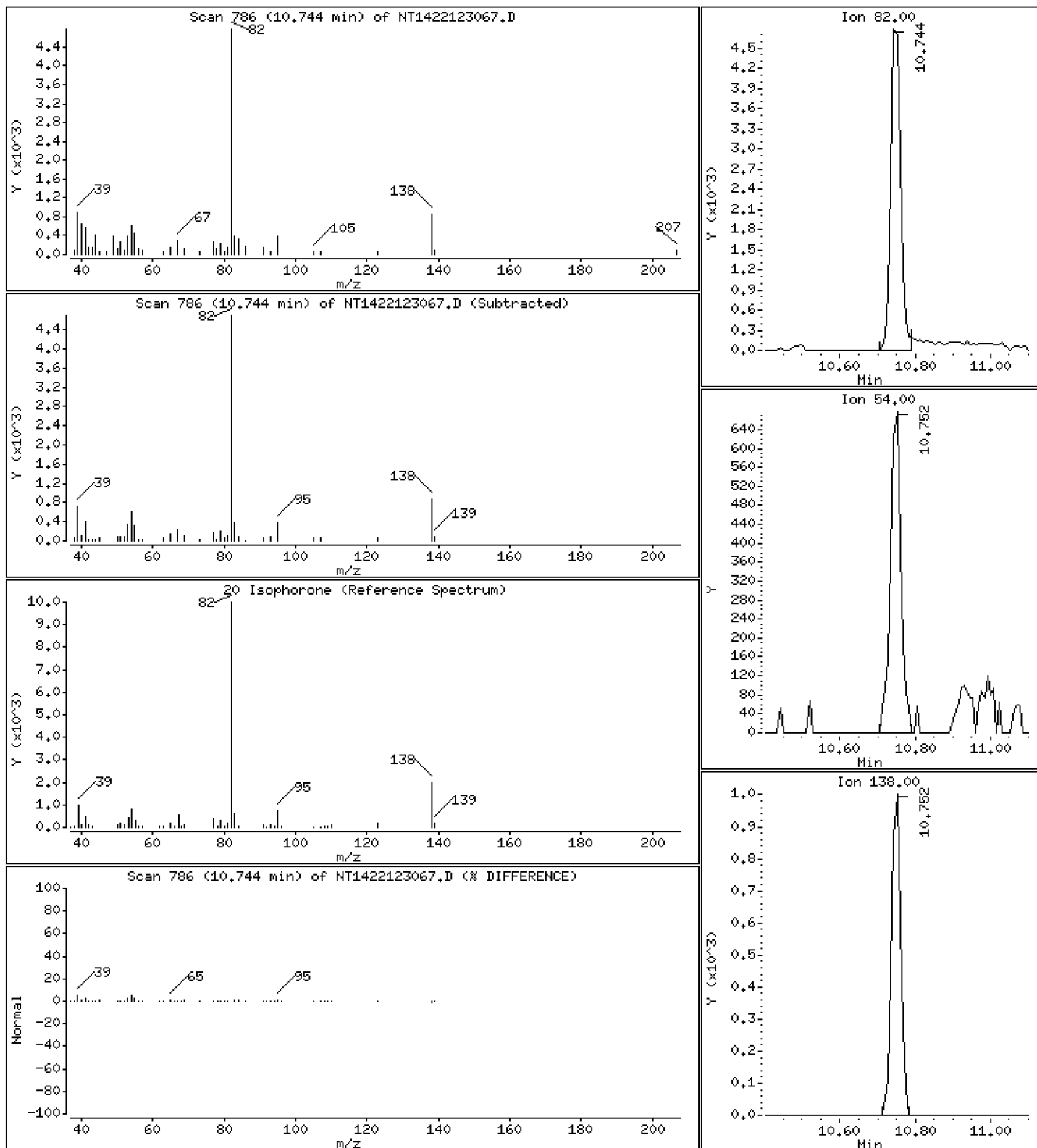
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

20 Isophorone

Concentration: 0.1972 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

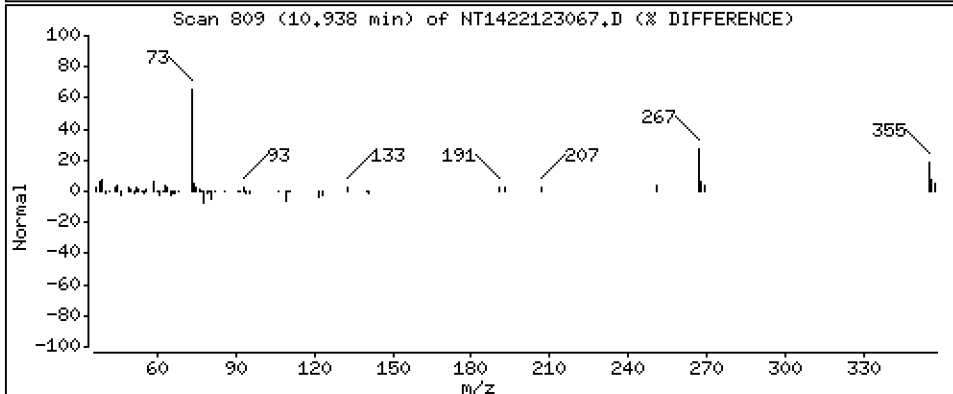
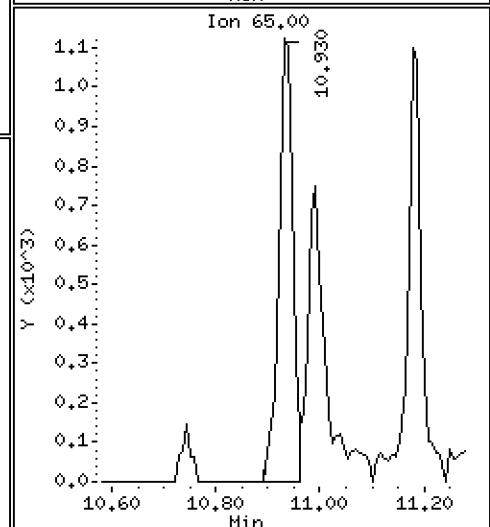
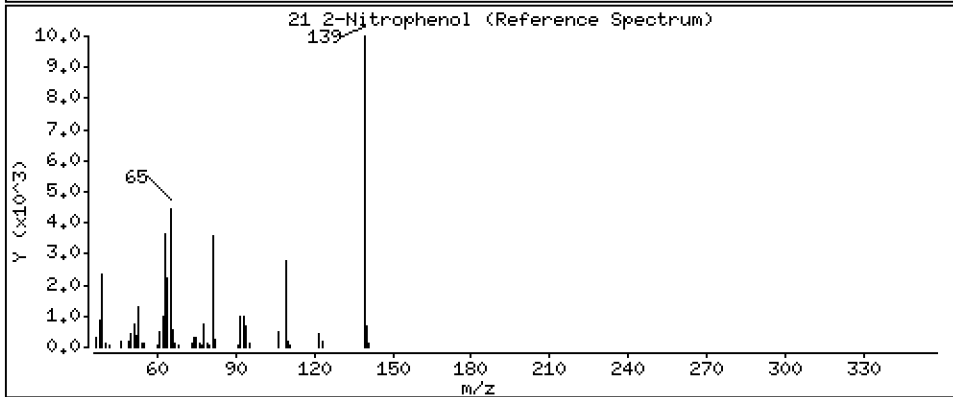
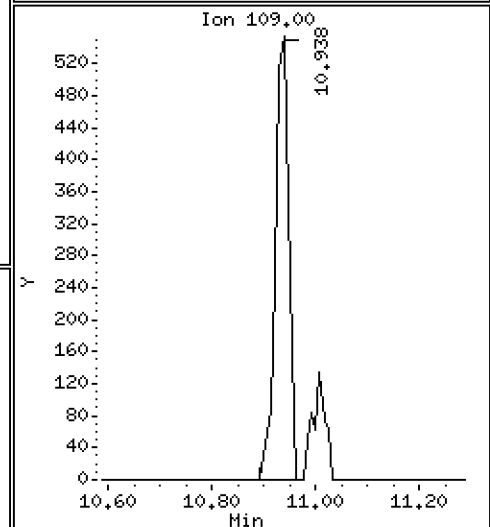
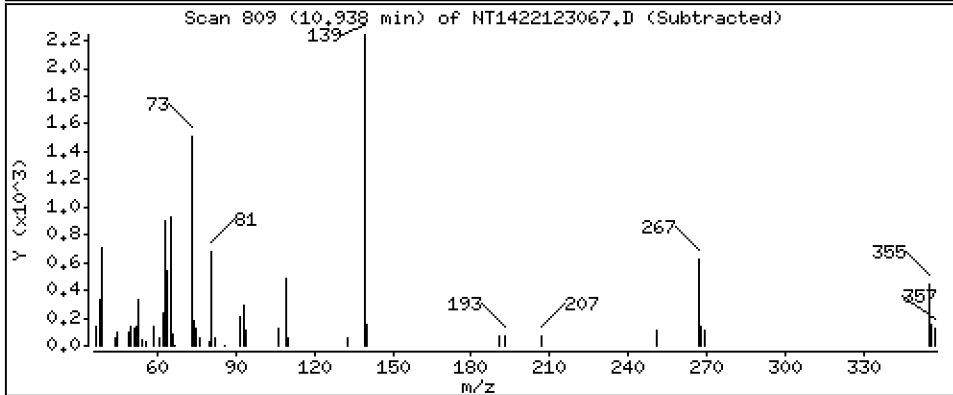
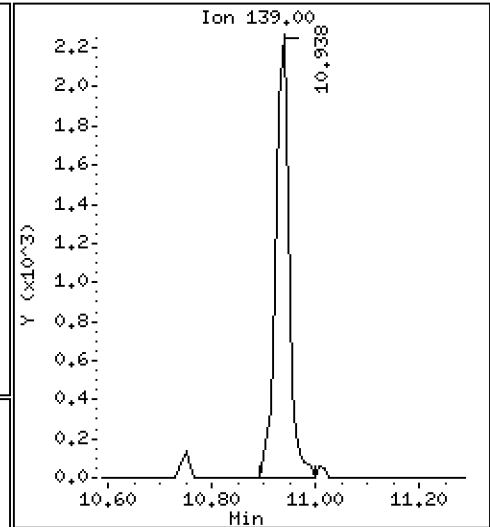
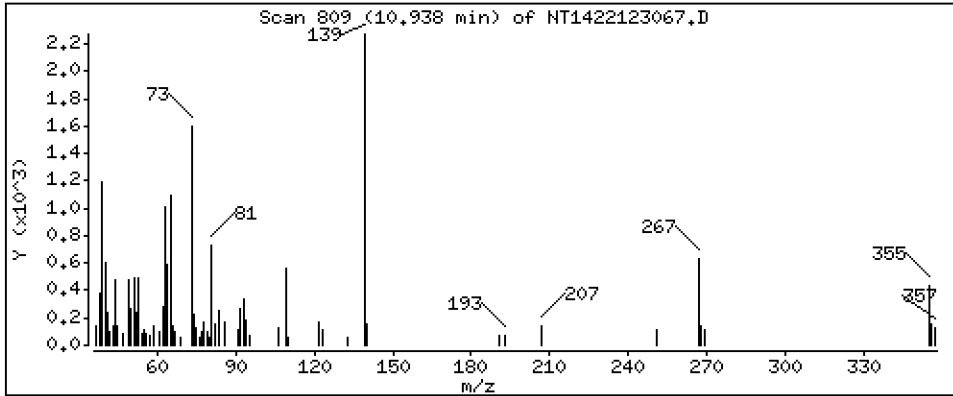
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,2116 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

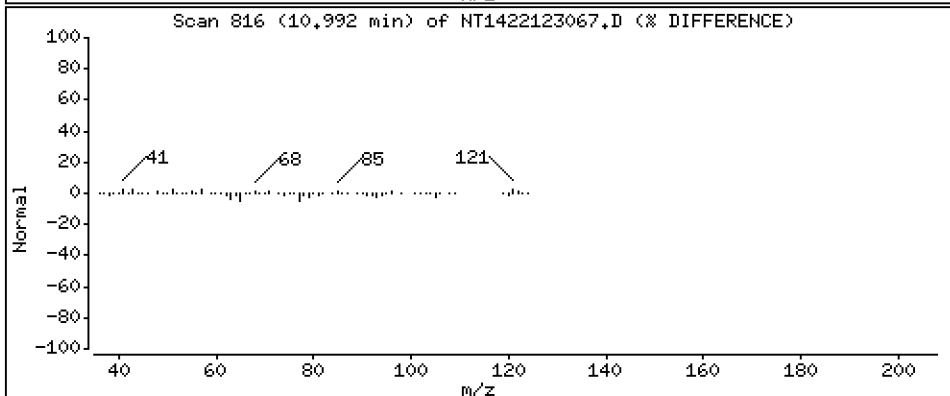
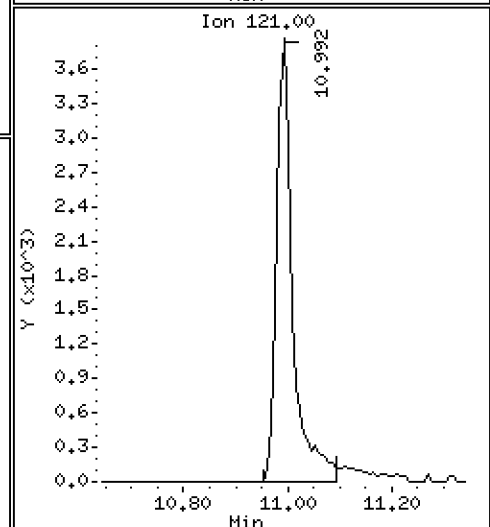
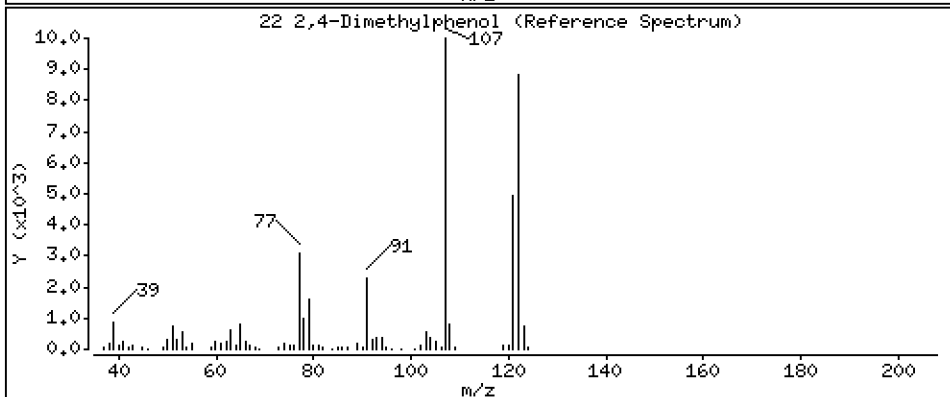
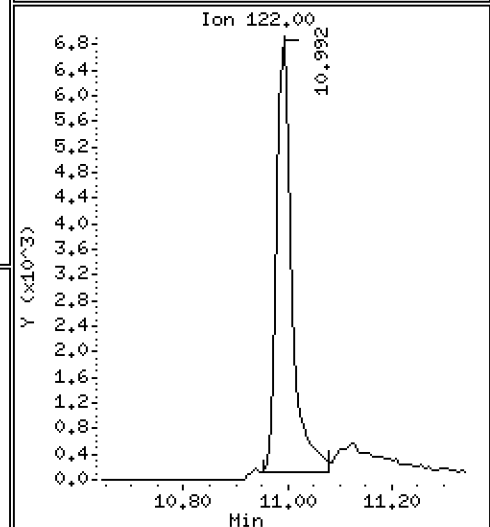
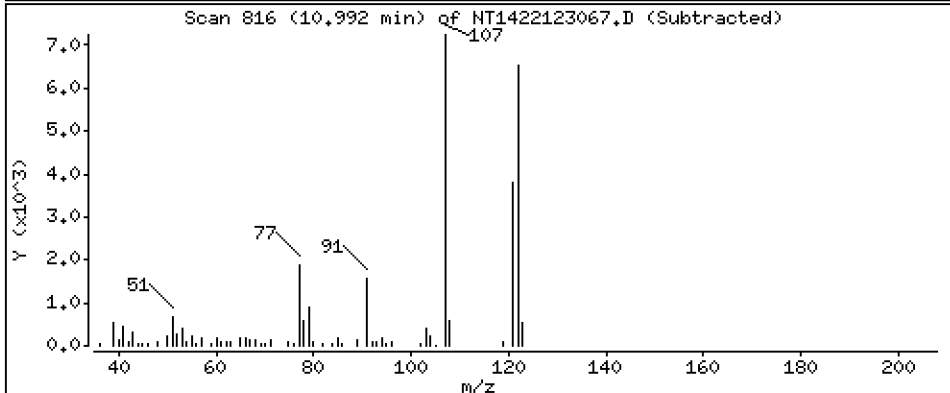
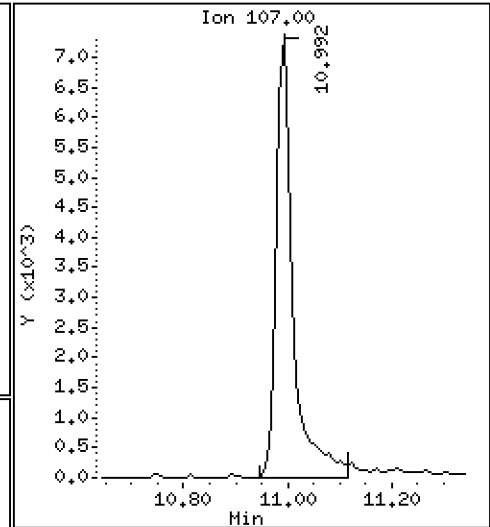
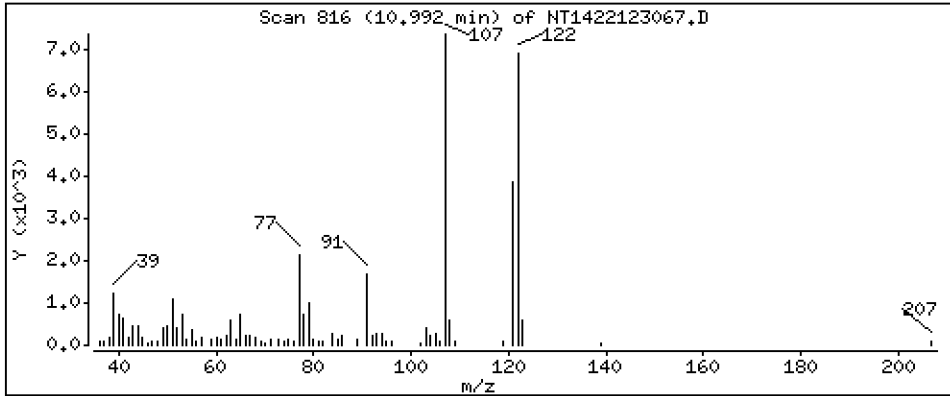
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,4590 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

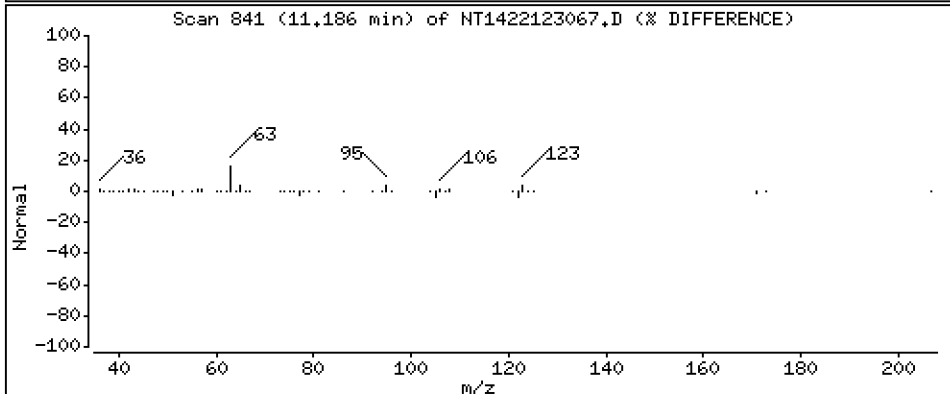
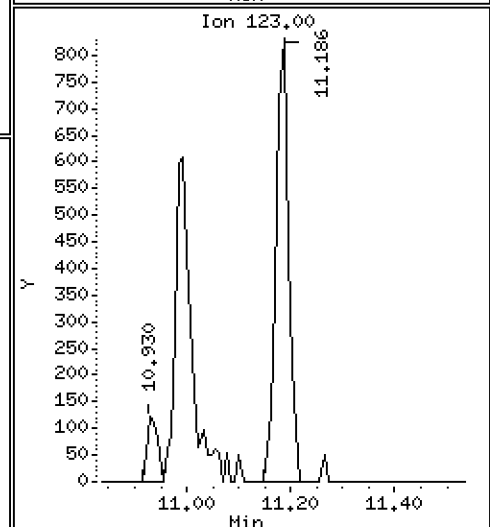
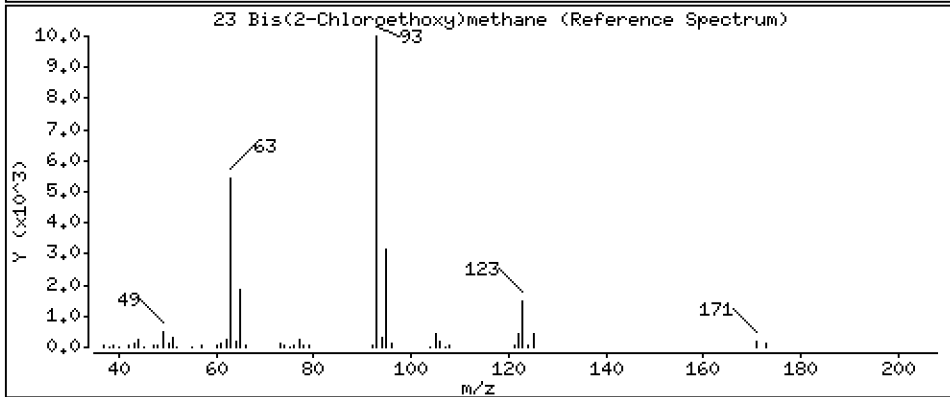
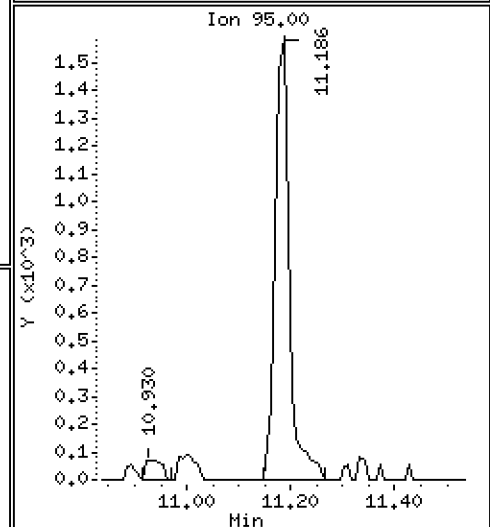
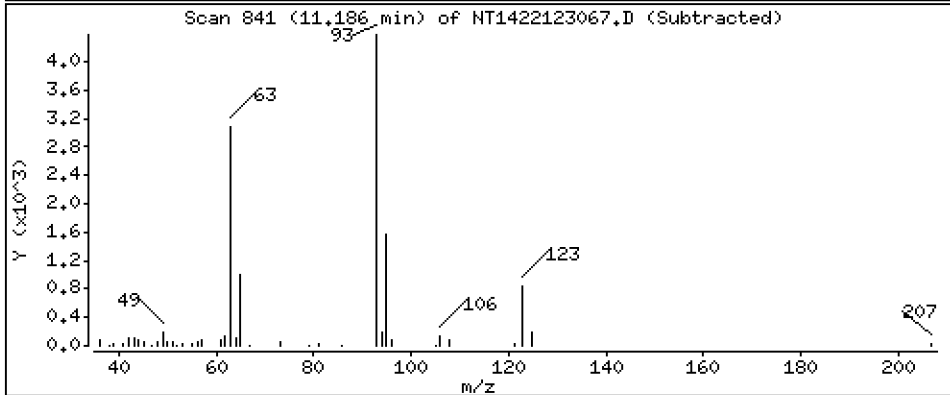
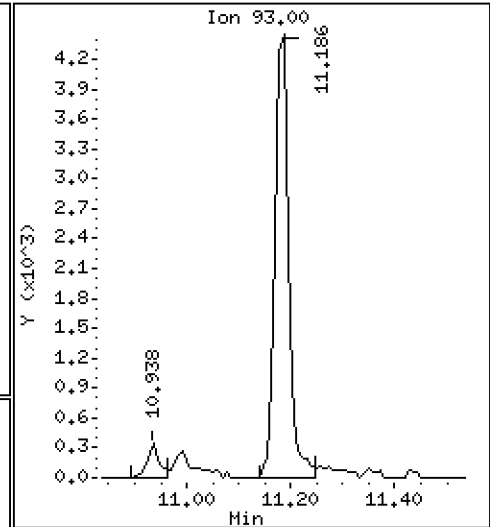
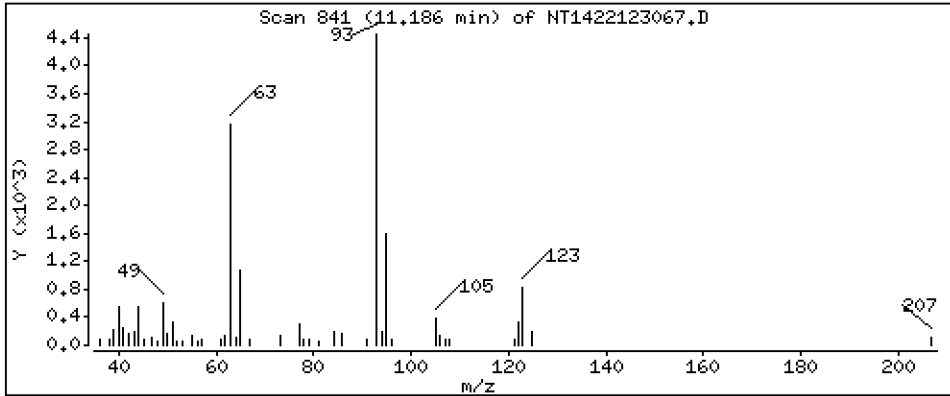
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

23 Bis(2-Chloroethoxy)methane

Concentration: 0,2359 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

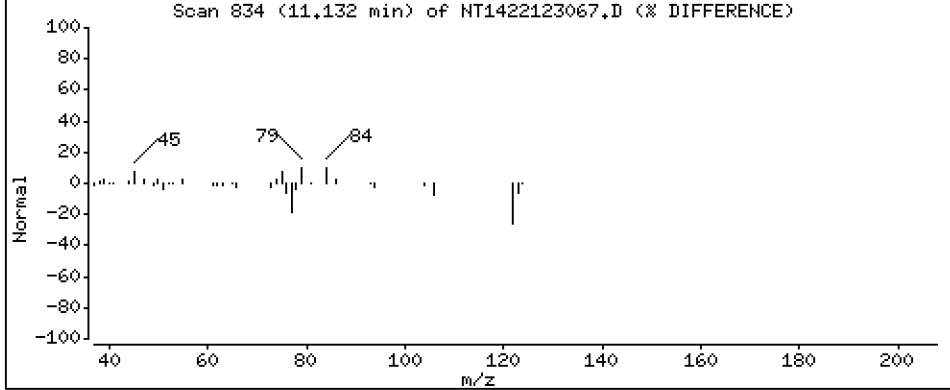
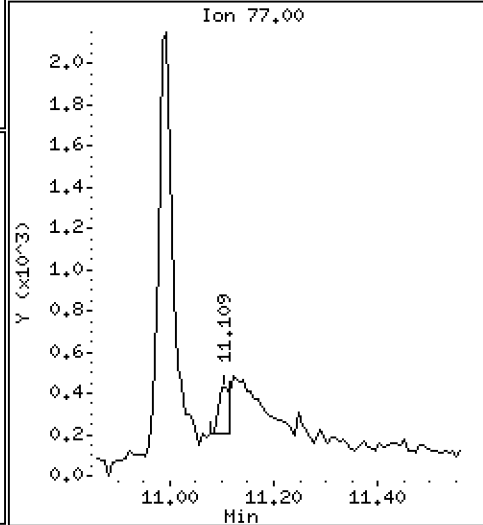
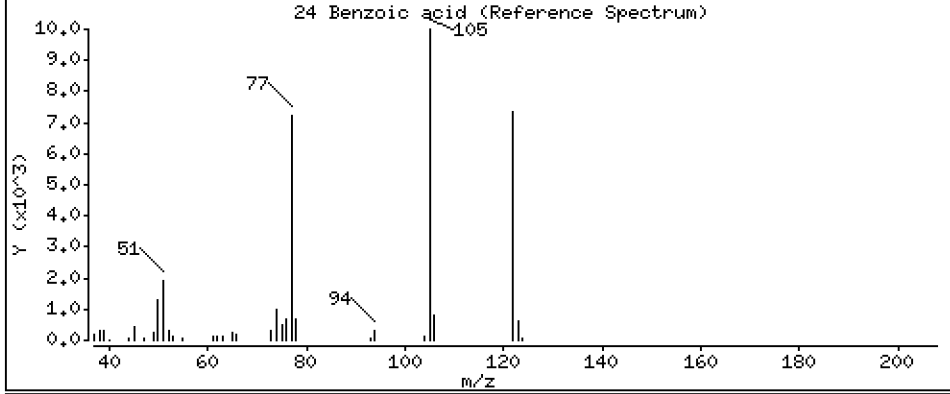
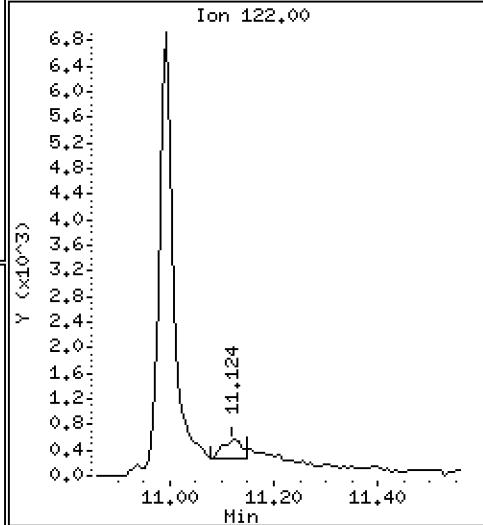
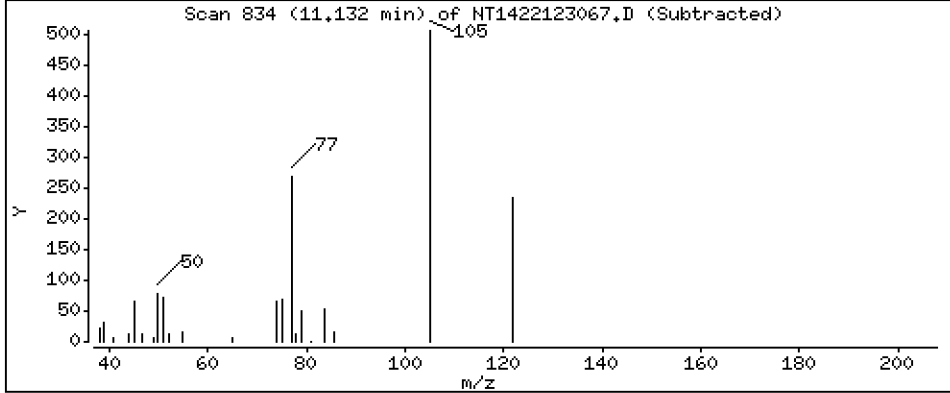
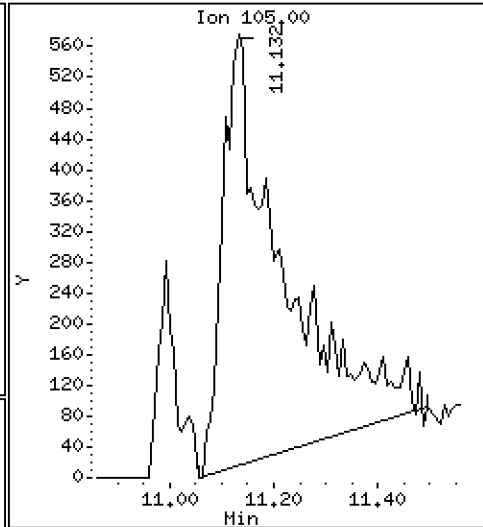
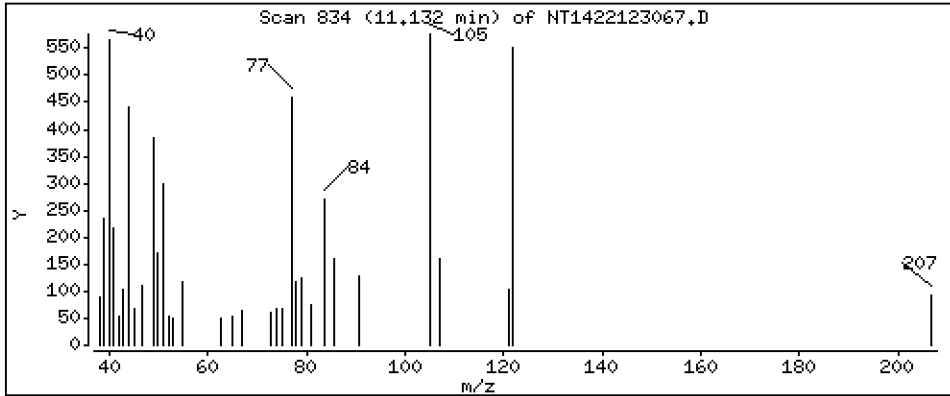
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.2097 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

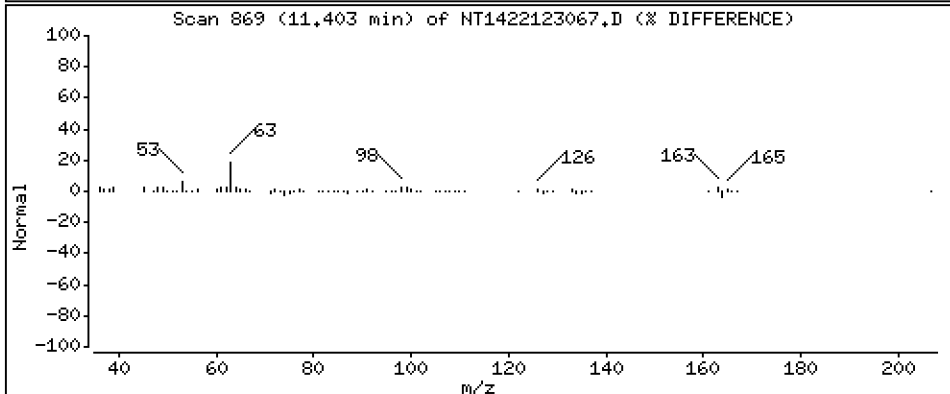
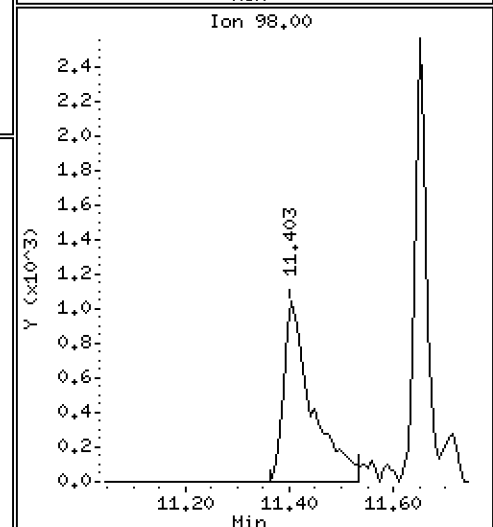
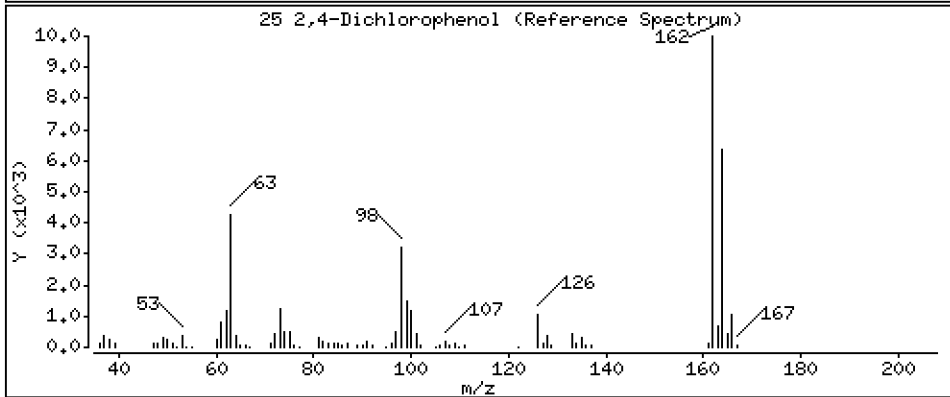
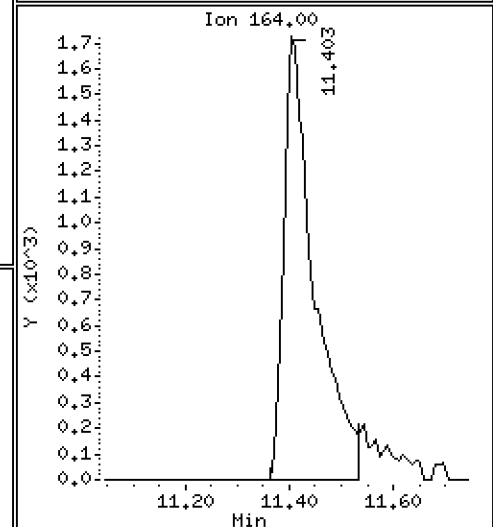
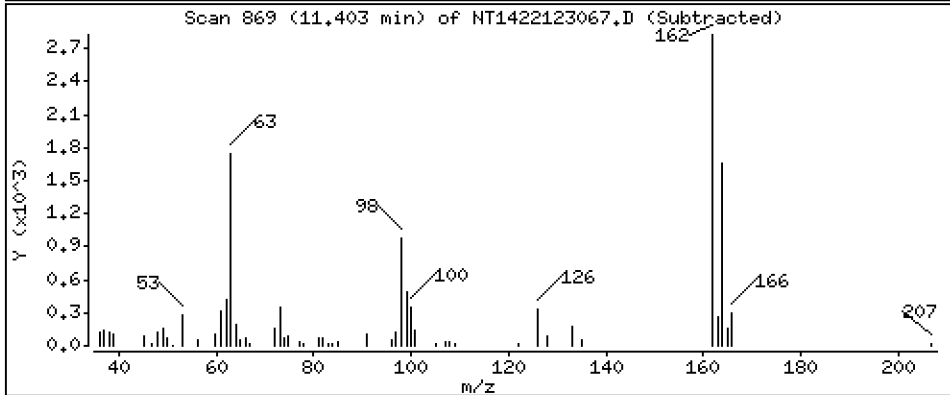
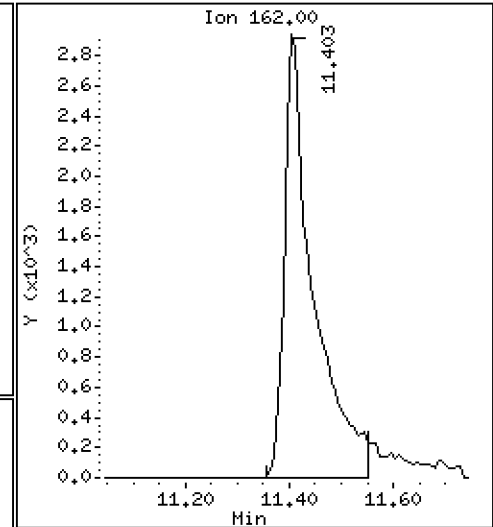
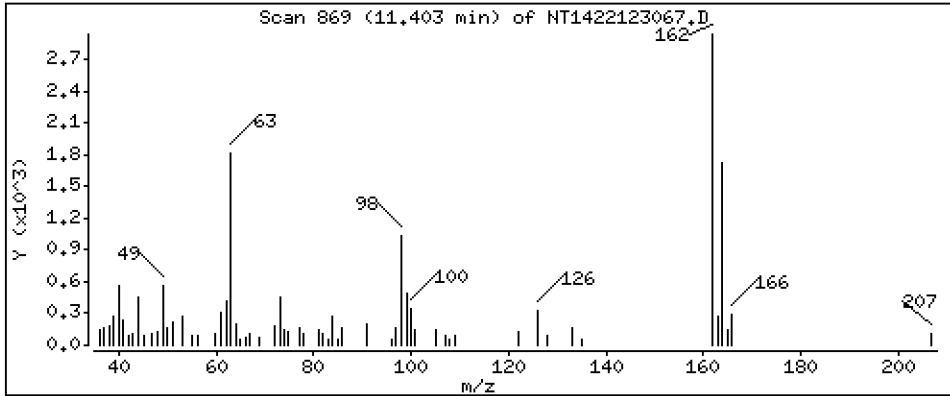
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,4100 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

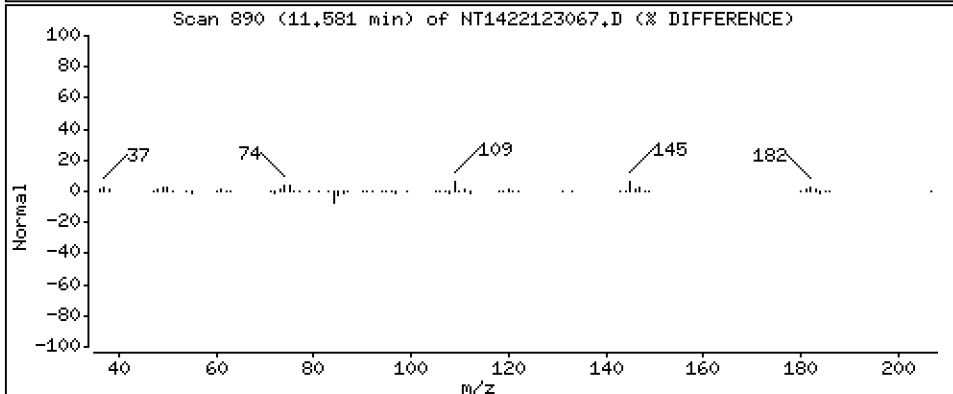
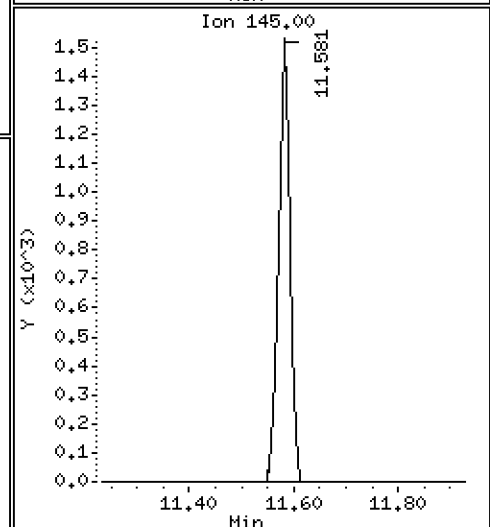
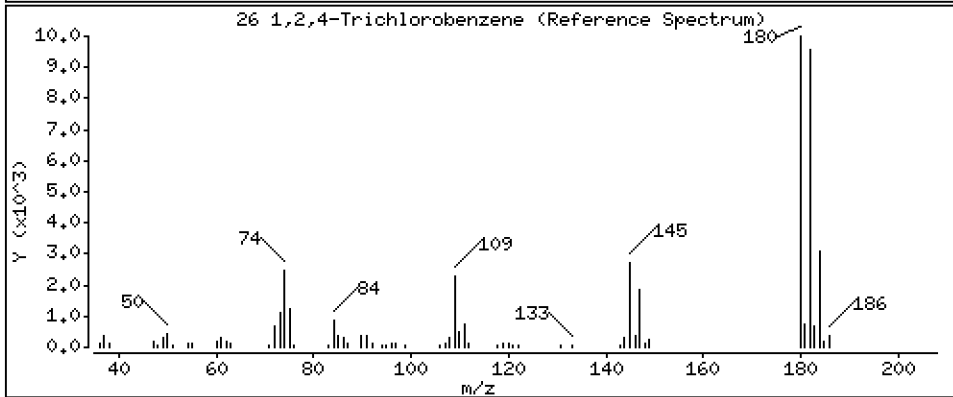
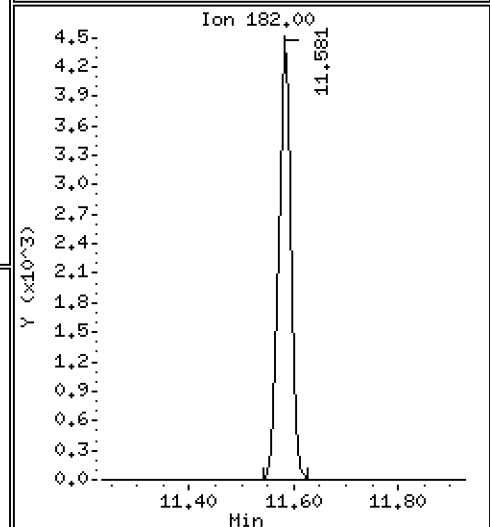
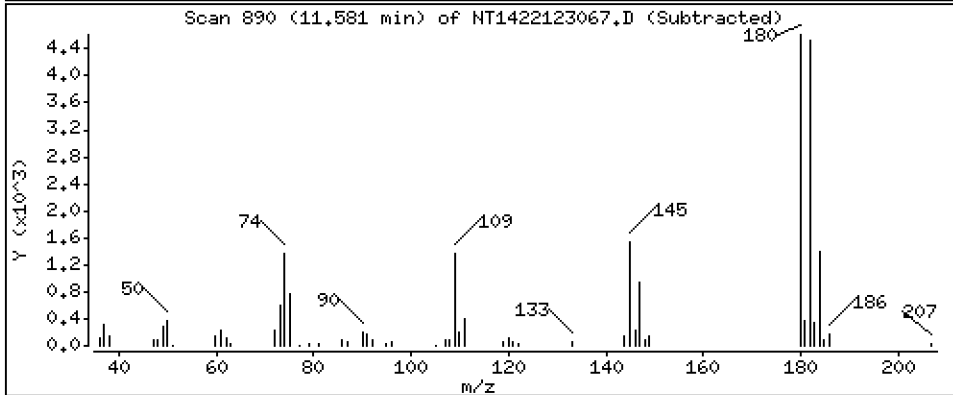
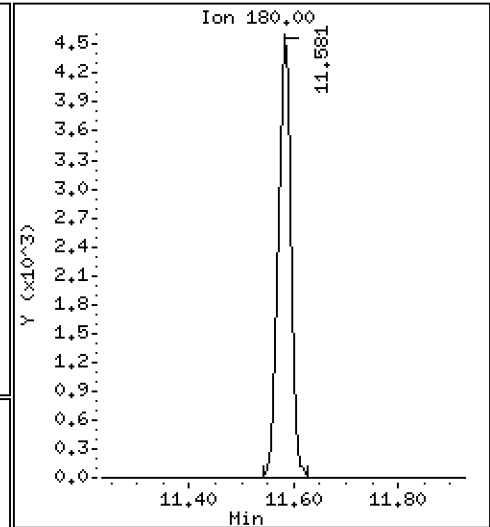
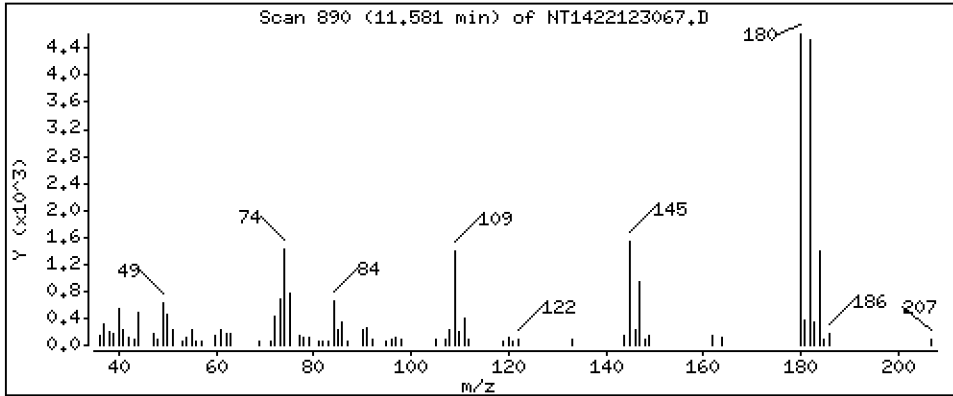
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,2401 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

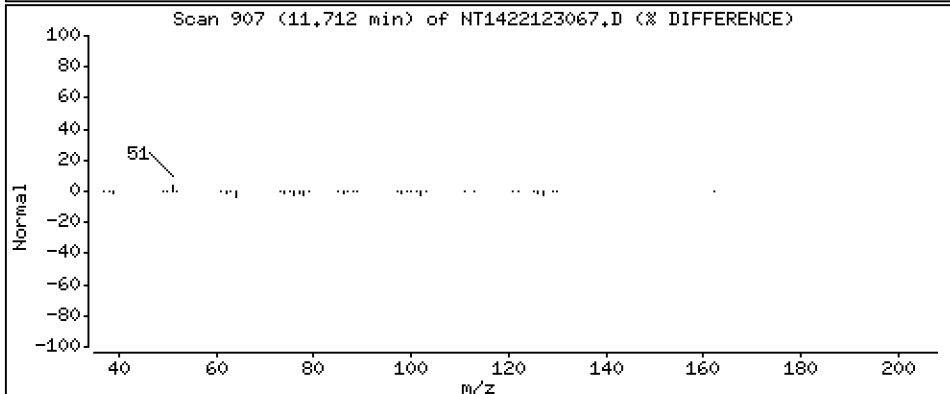
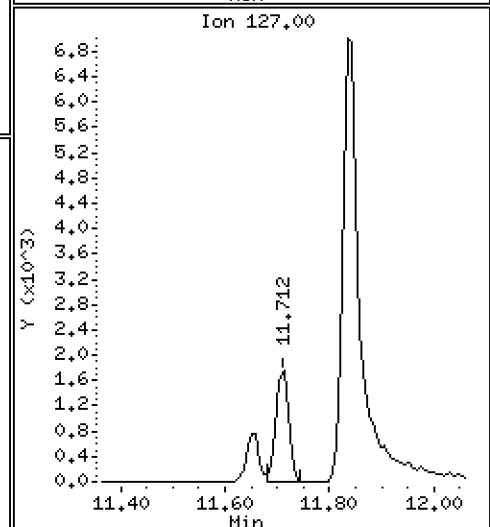
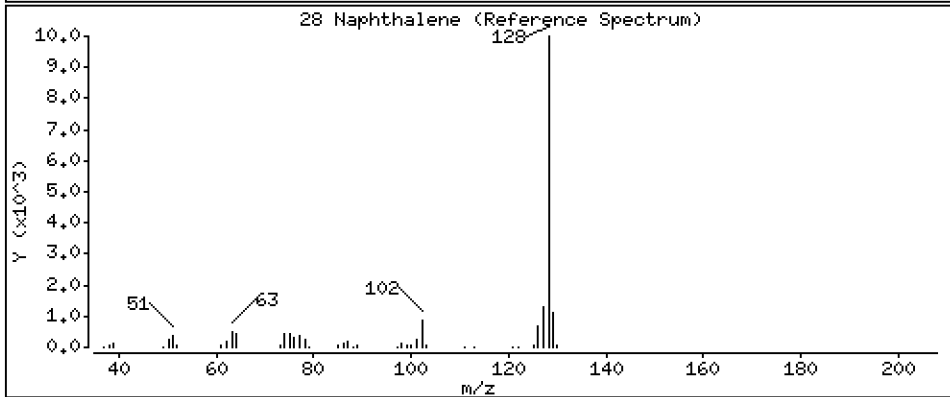
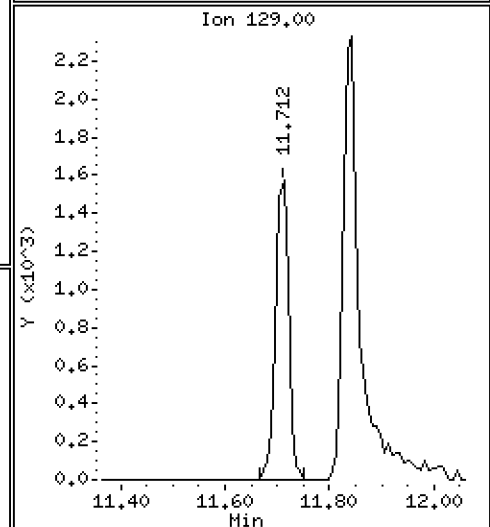
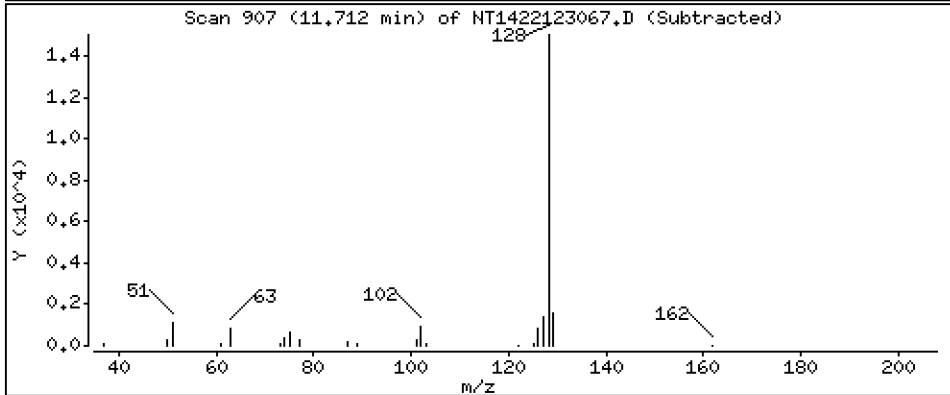
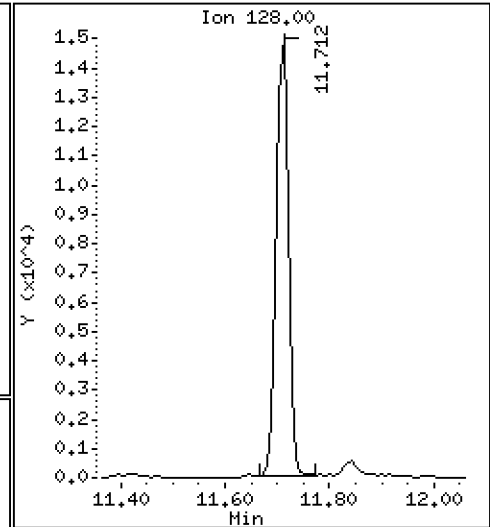
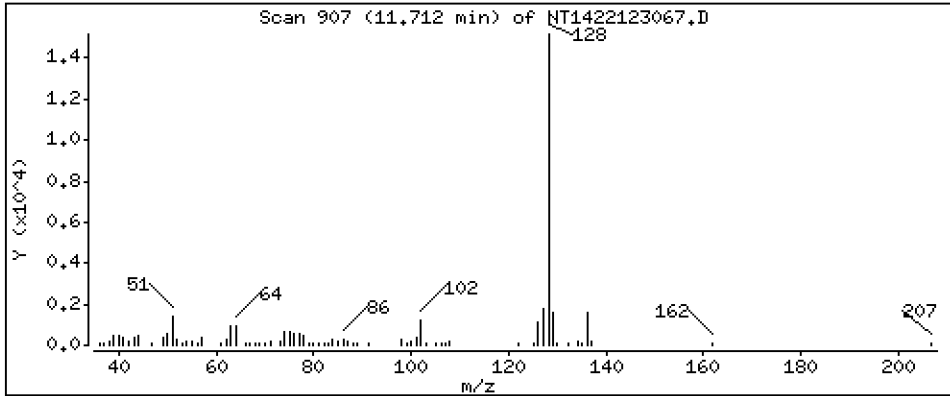
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

28 Naphthalene

Concentration: 0,2355 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

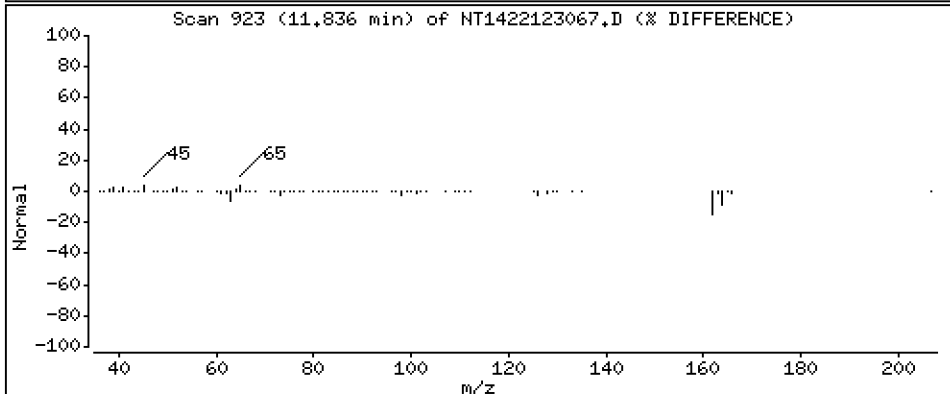
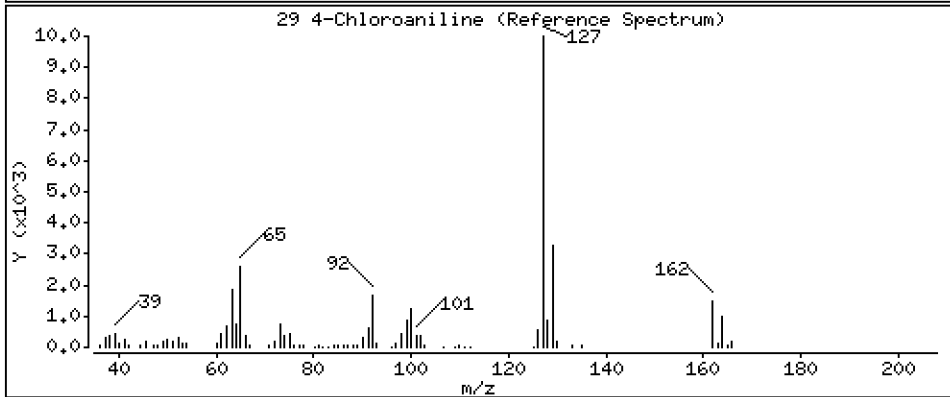
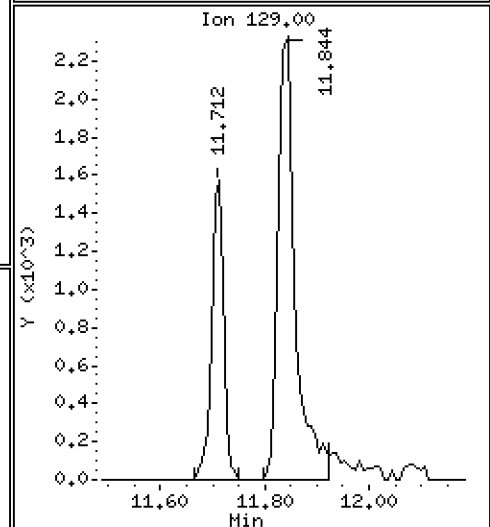
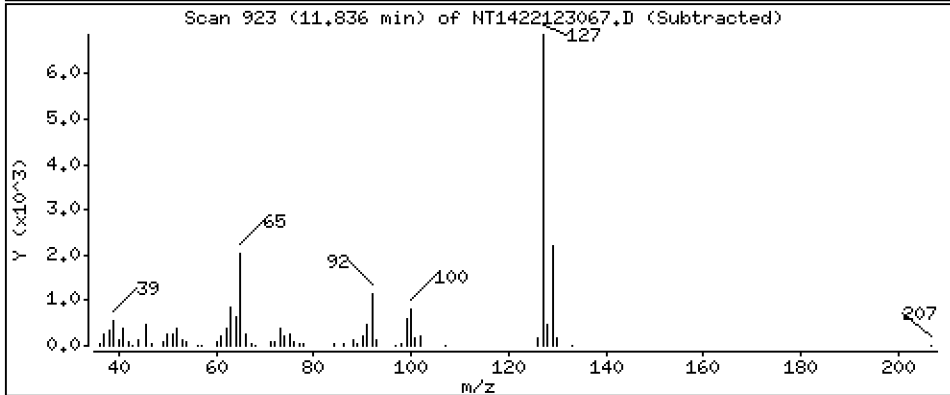
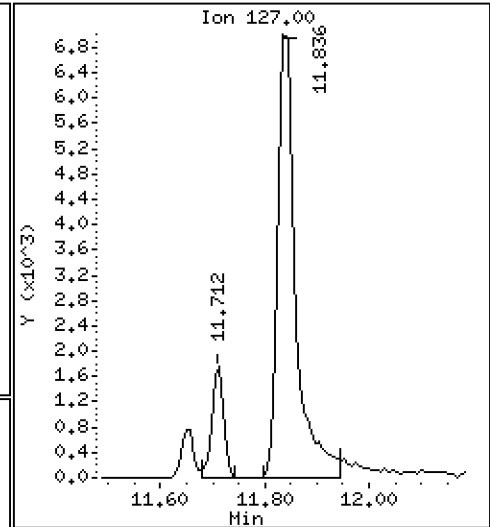
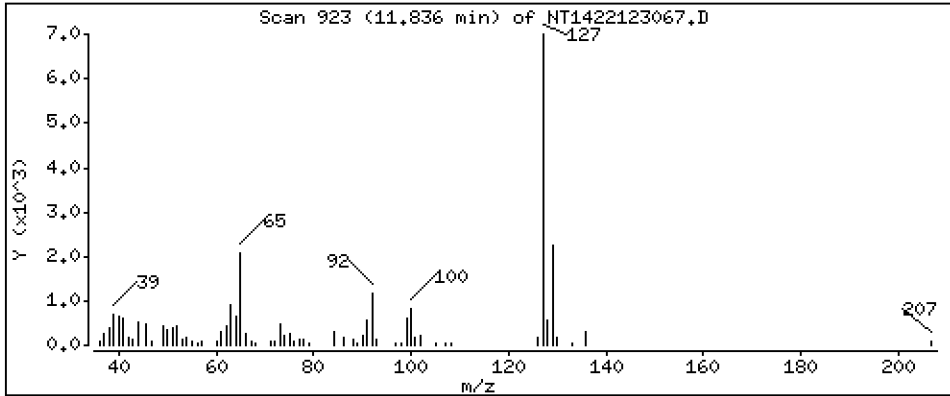
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,4051 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

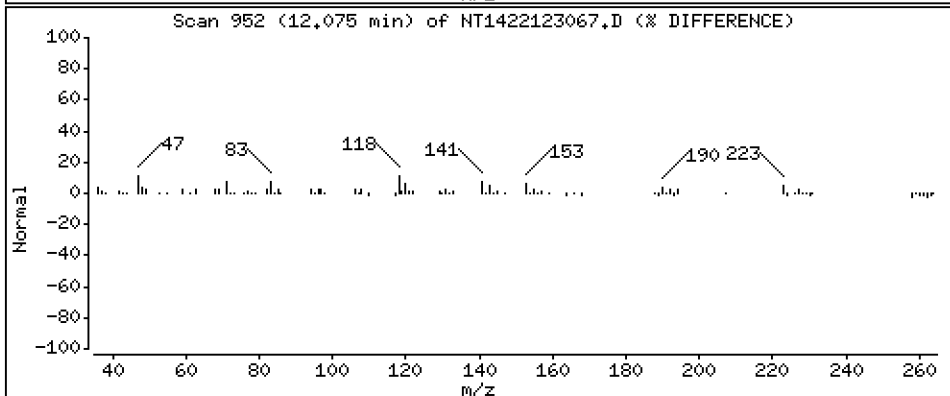
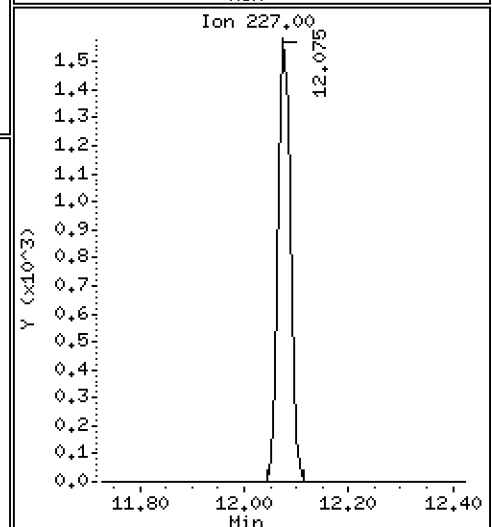
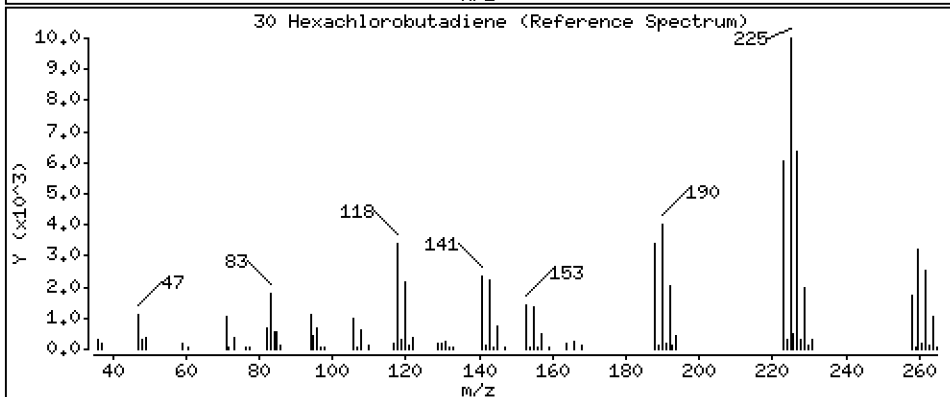
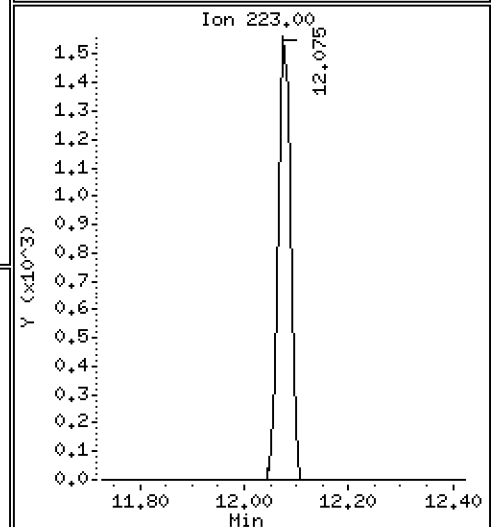
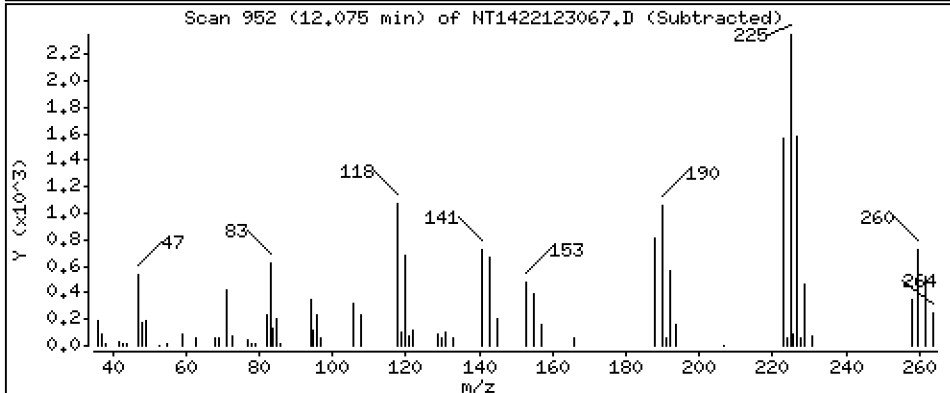
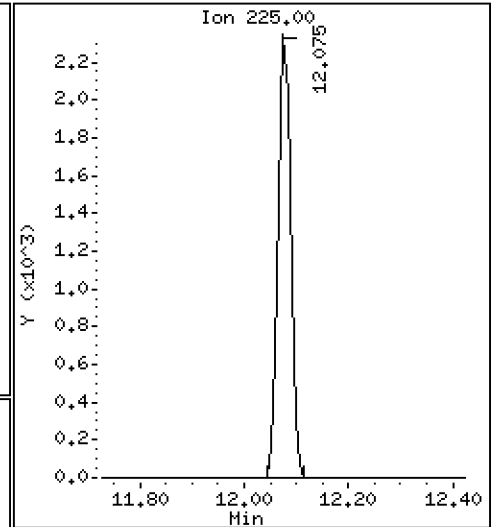
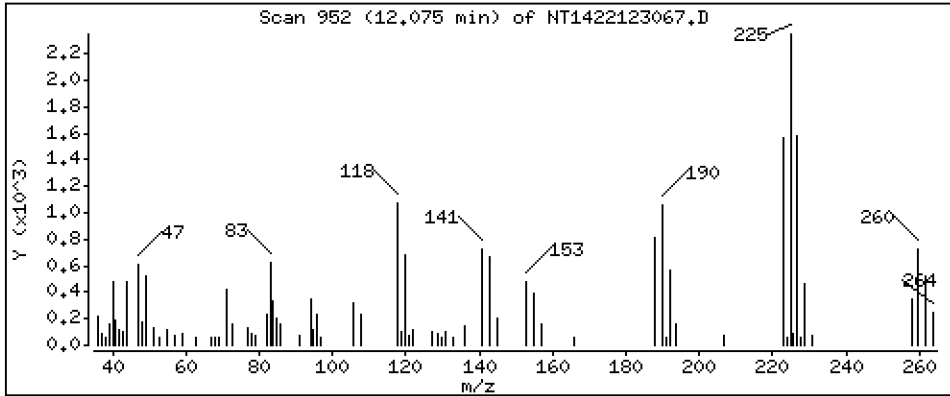
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,2380 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

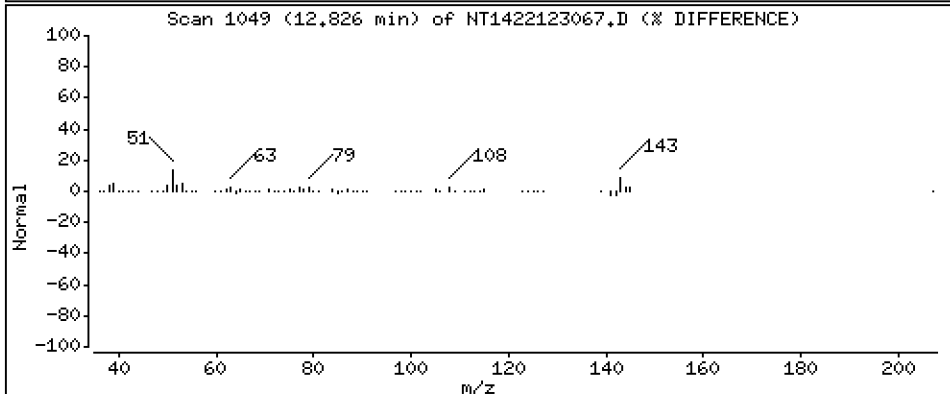
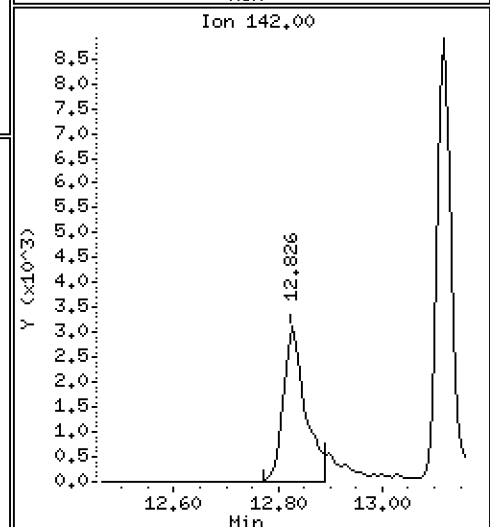
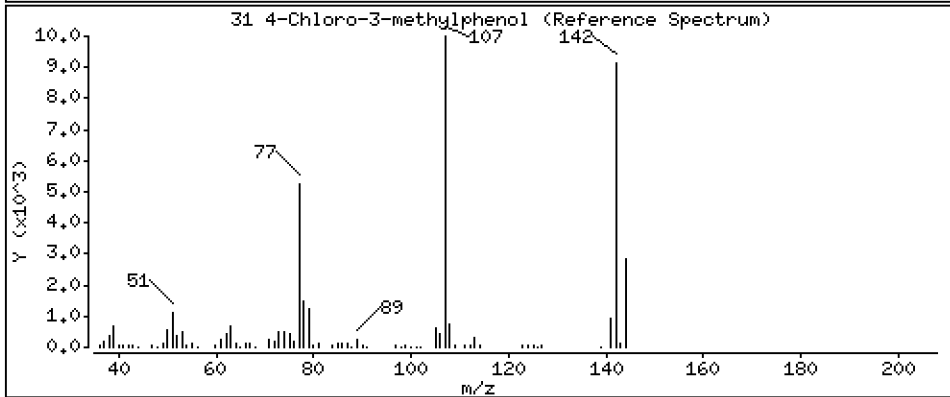
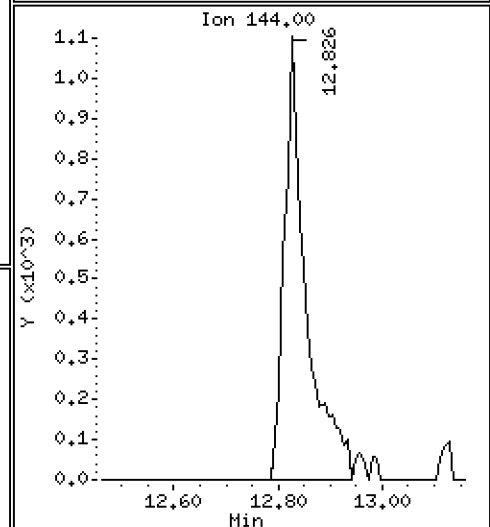
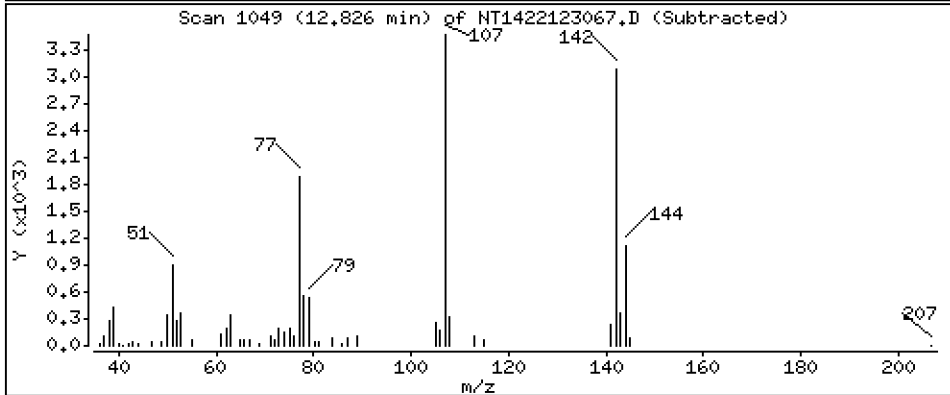
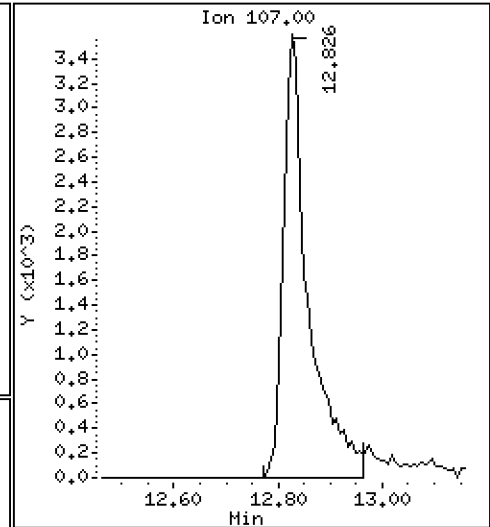
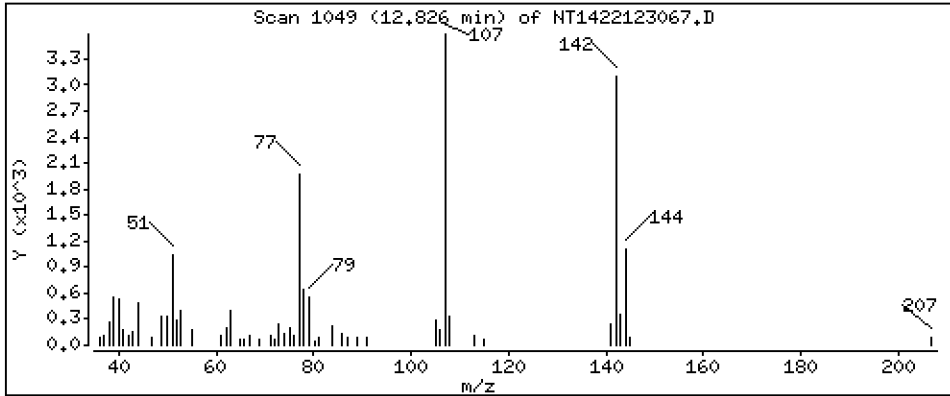
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

31 4-Chloro-3-methylphenol

Concentration: 0.4327 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

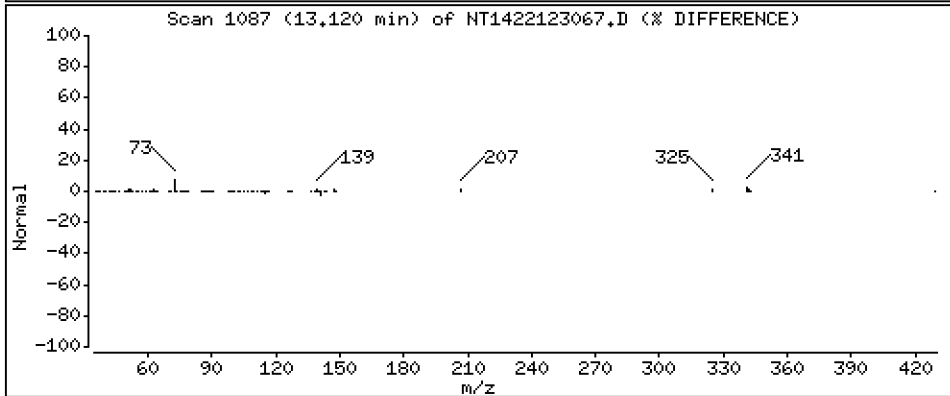
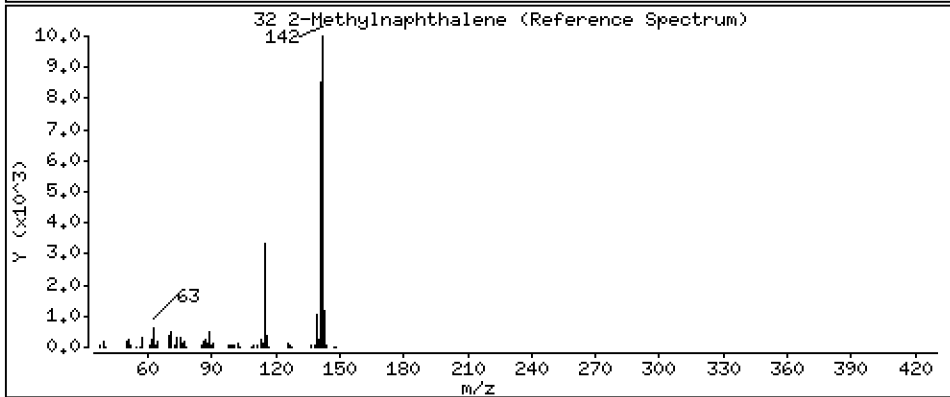
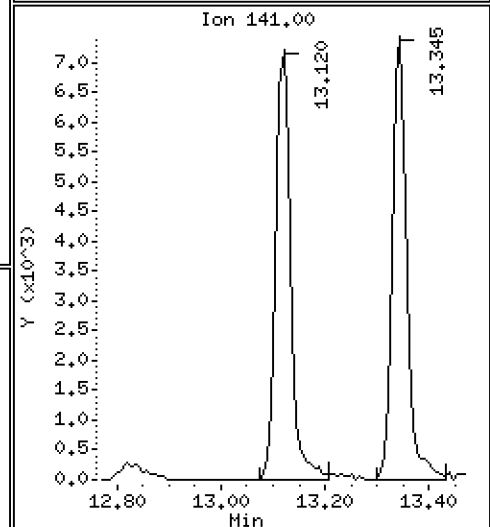
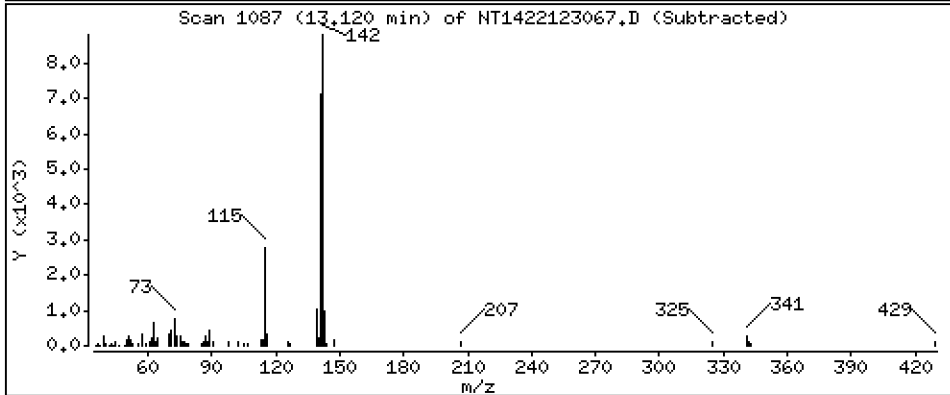
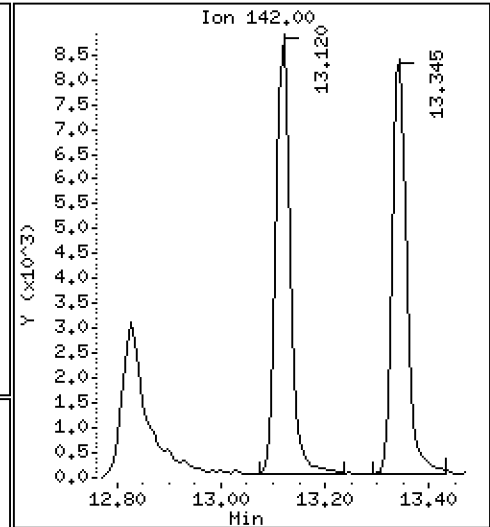
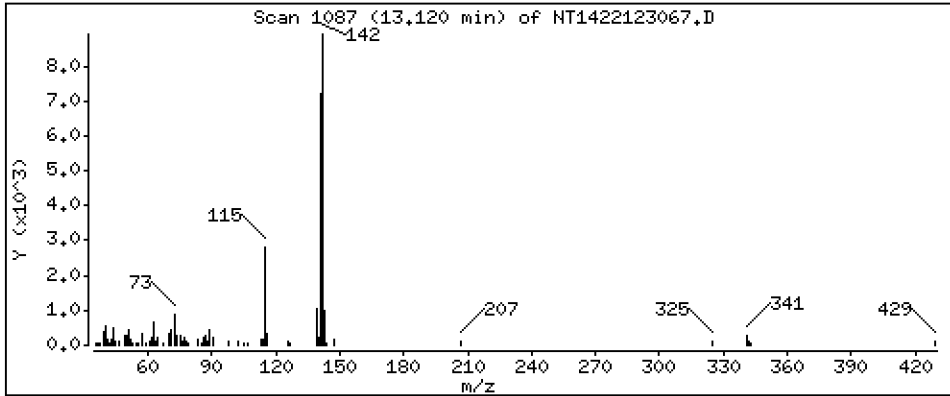
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,2270 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

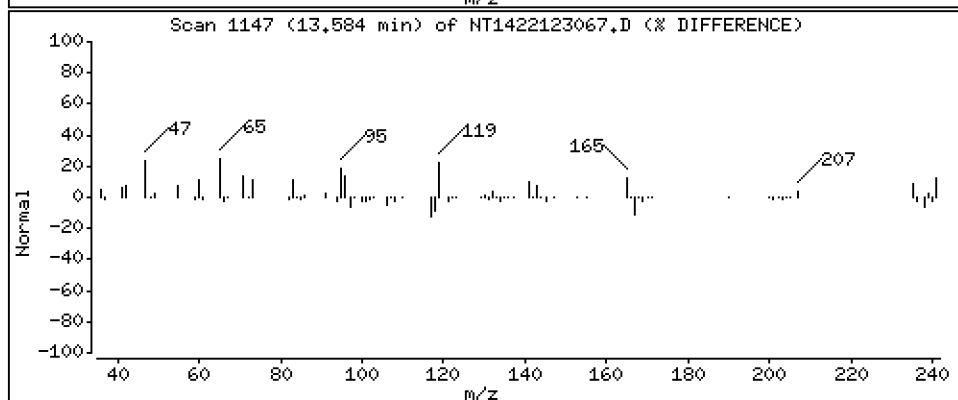
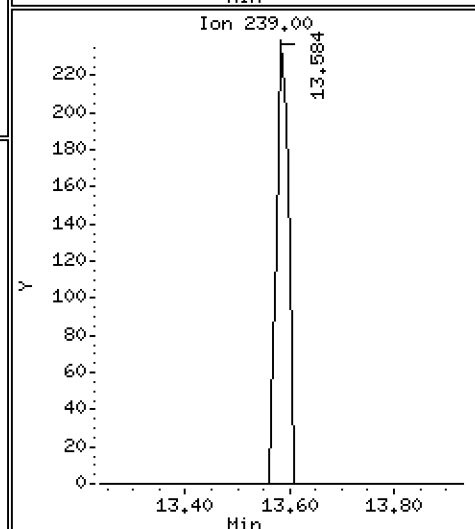
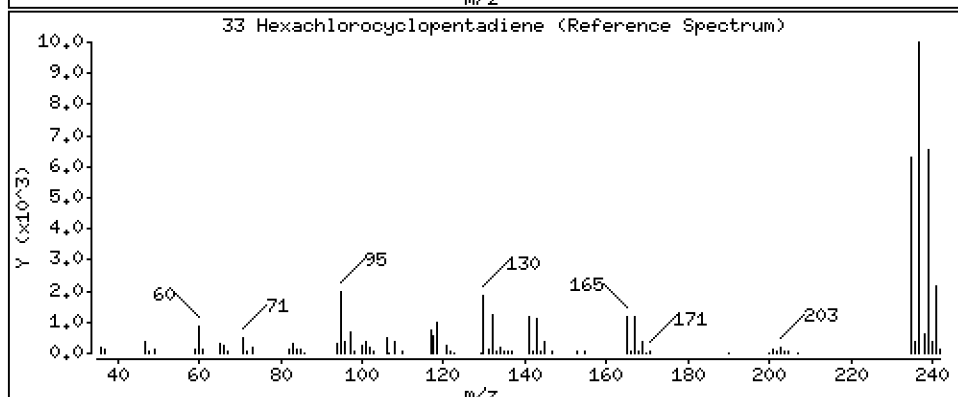
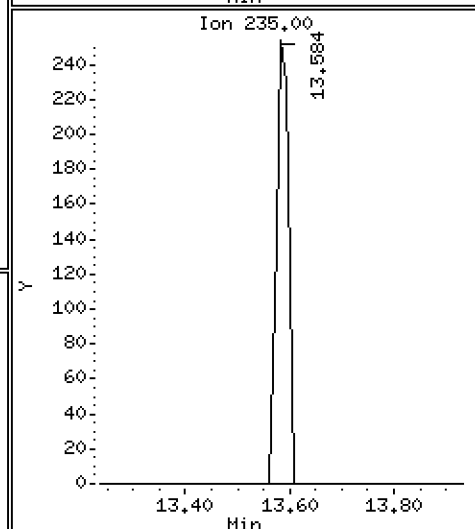
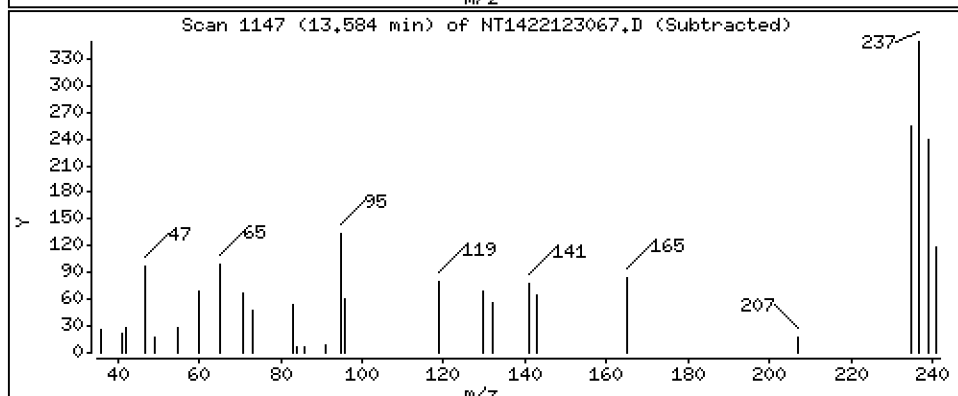
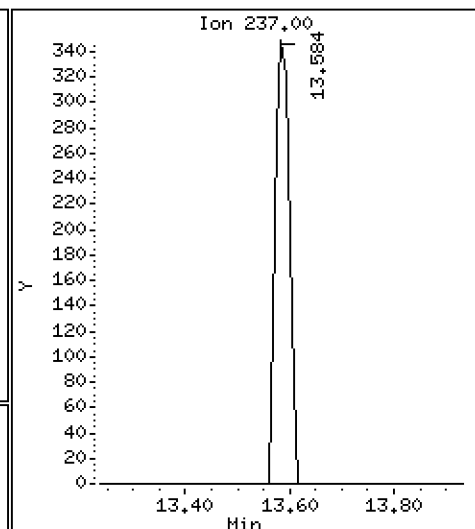
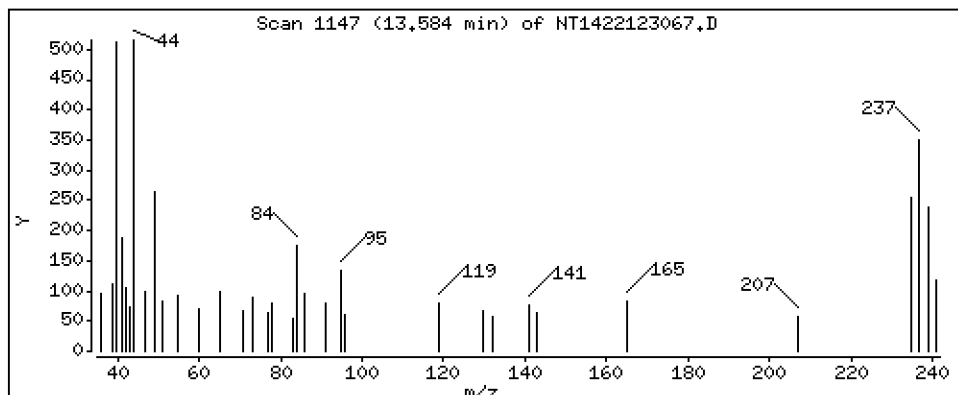
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,04042 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

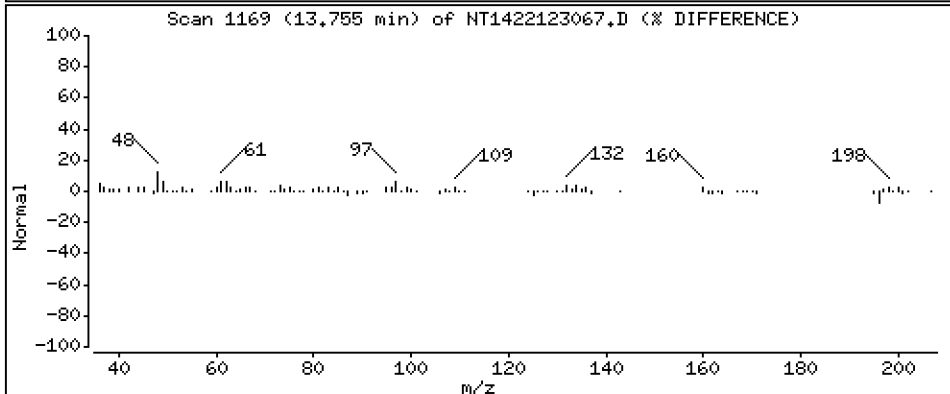
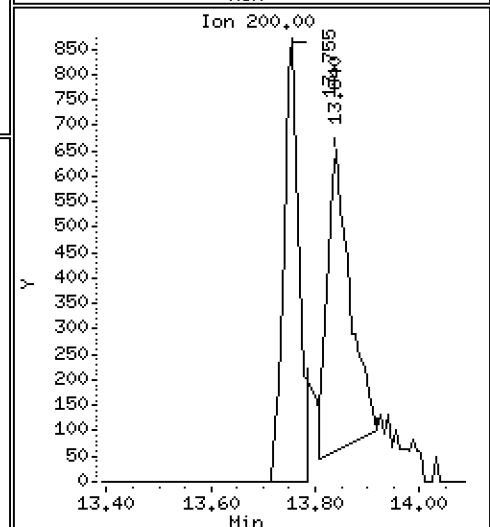
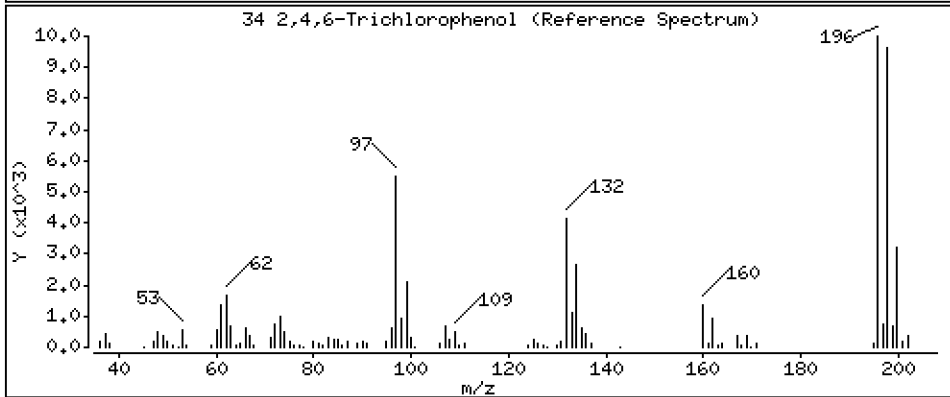
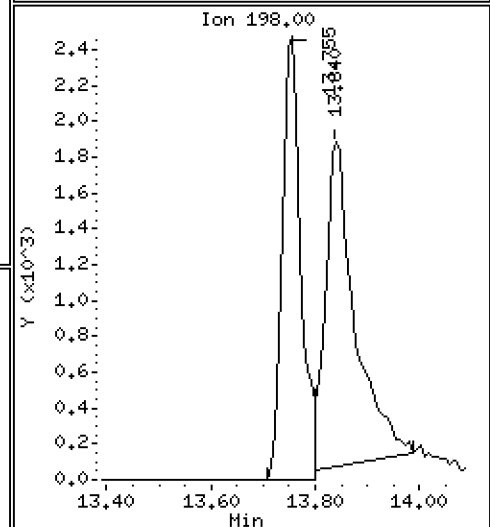
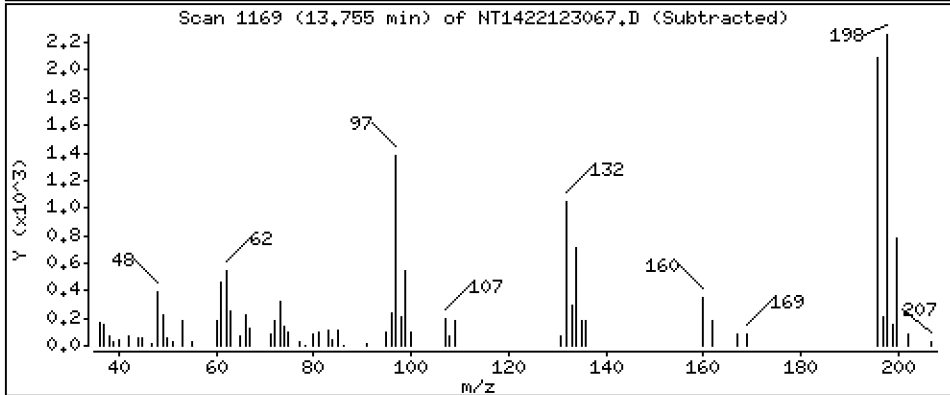
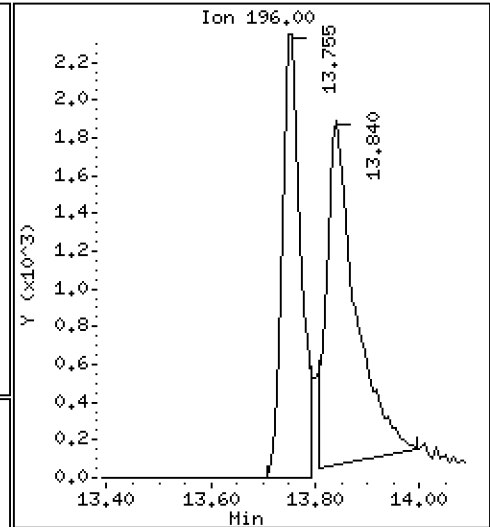
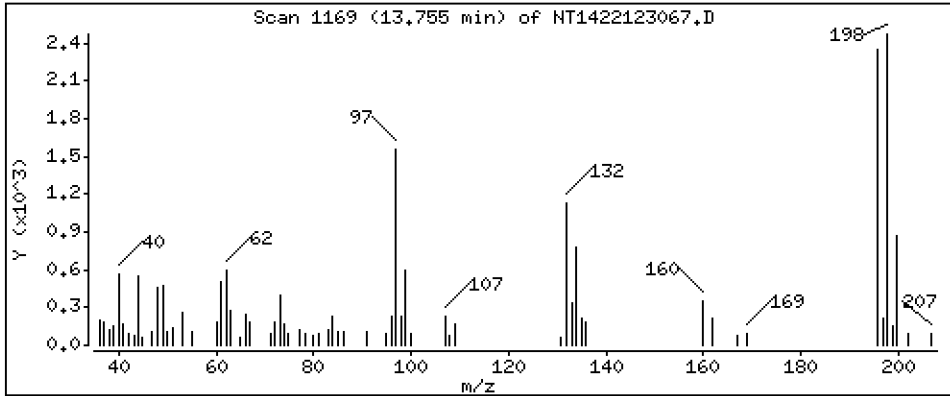
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,3442 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

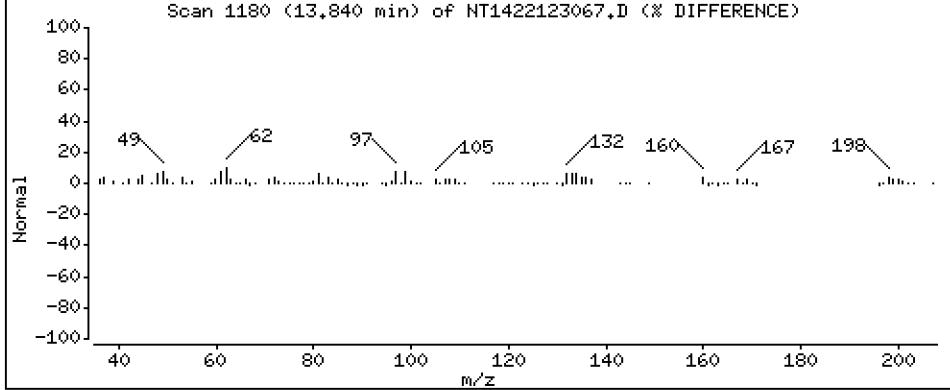
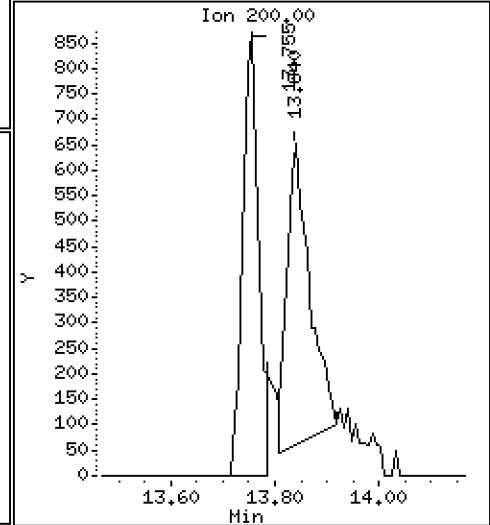
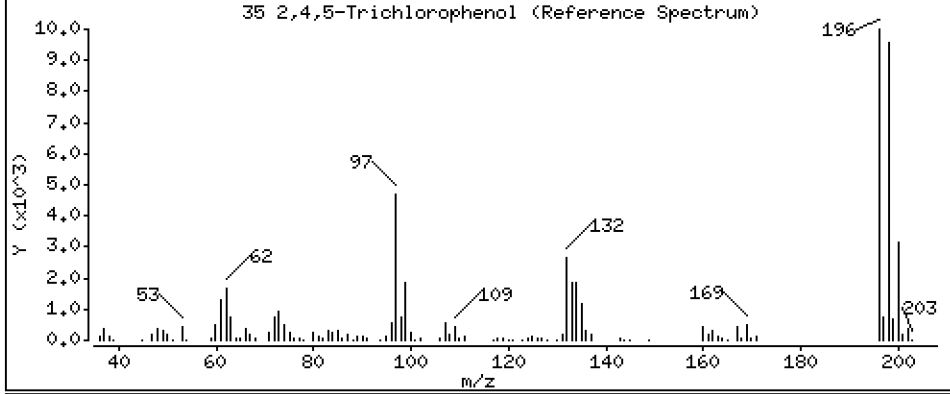
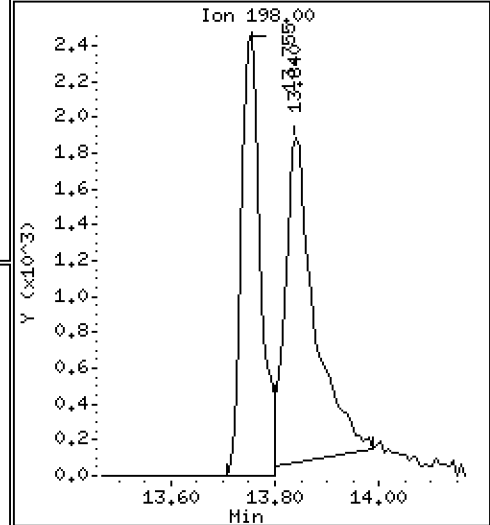
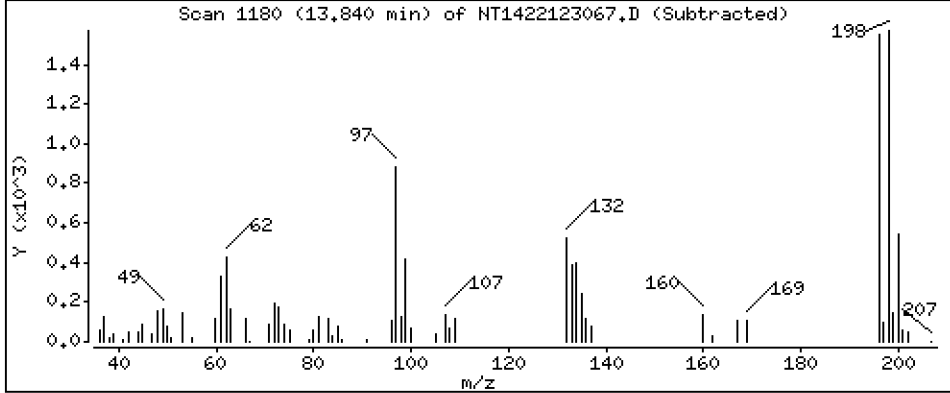
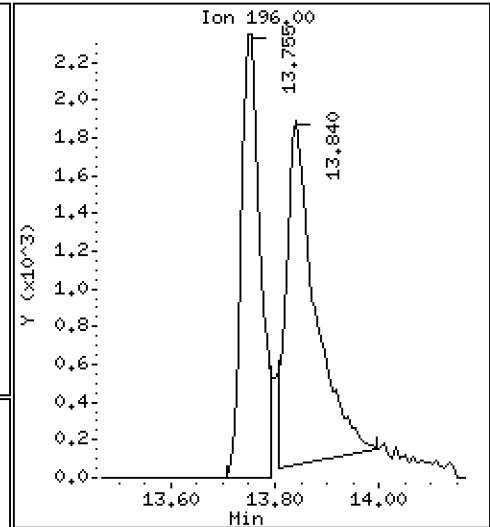
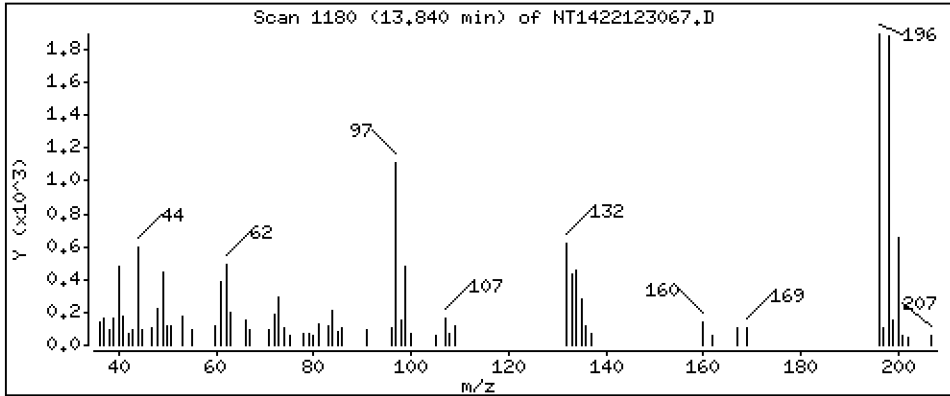
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,3604 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

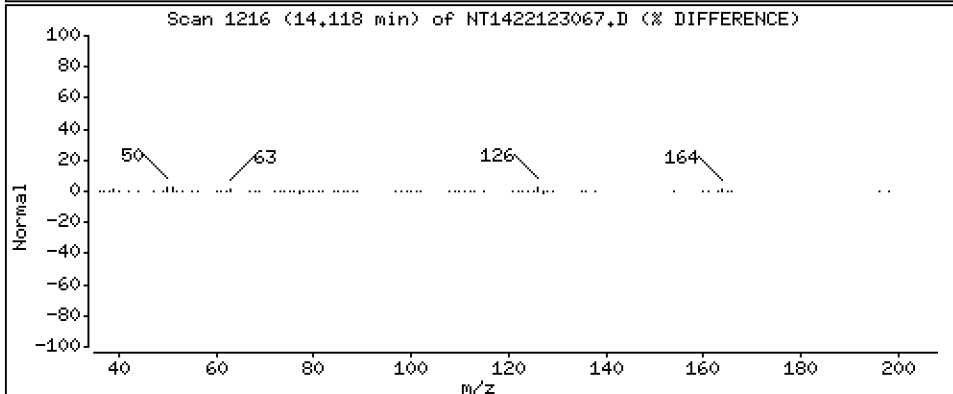
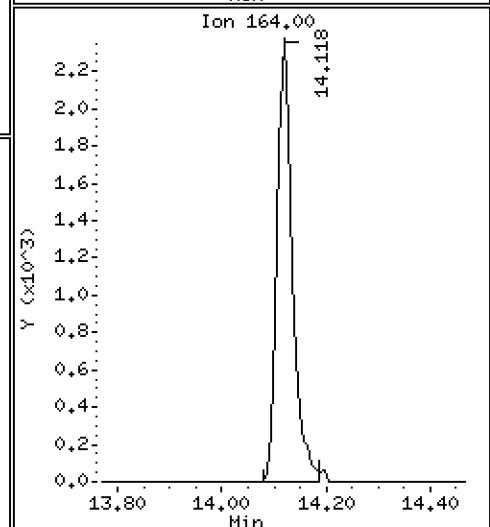
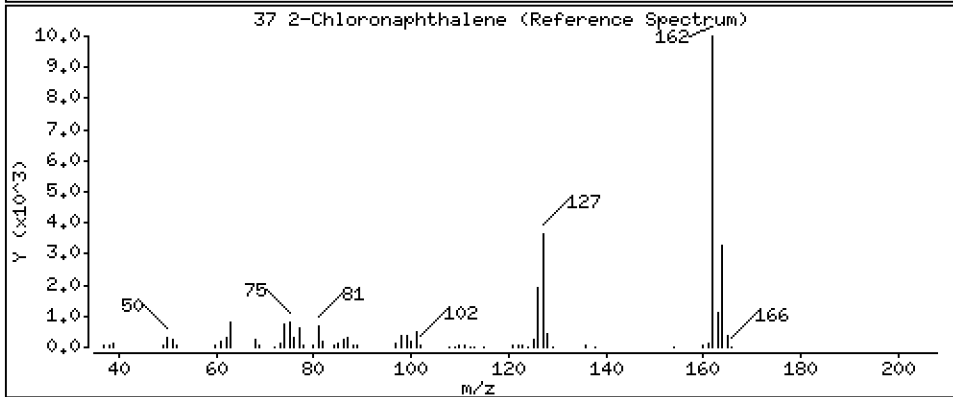
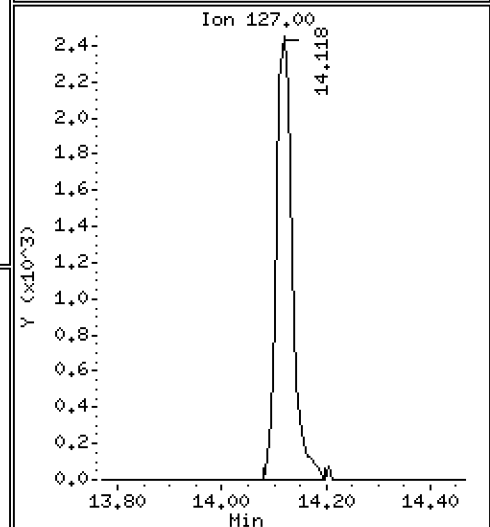
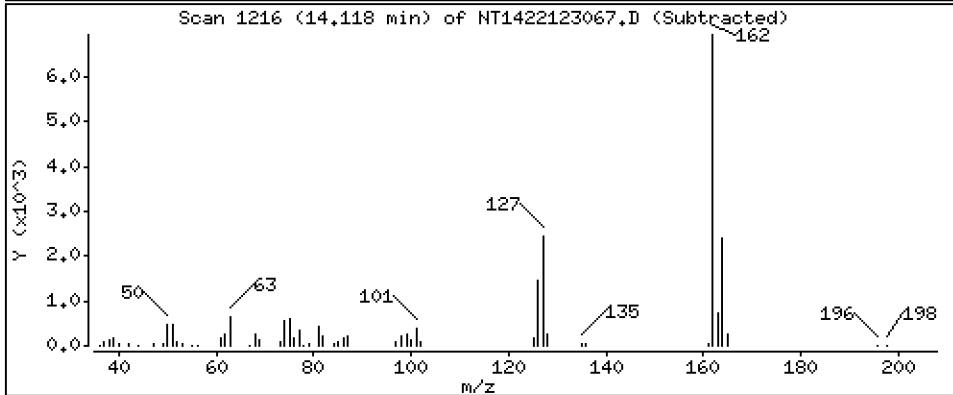
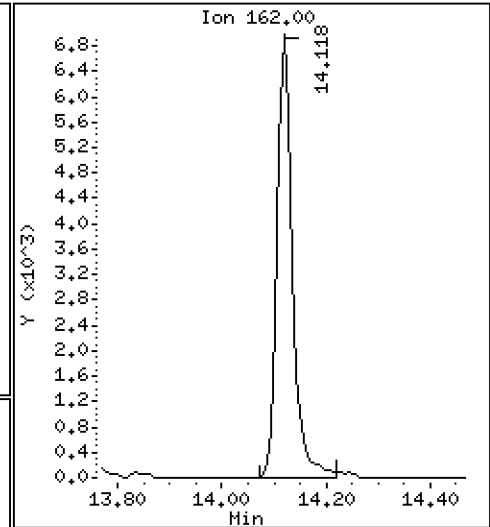
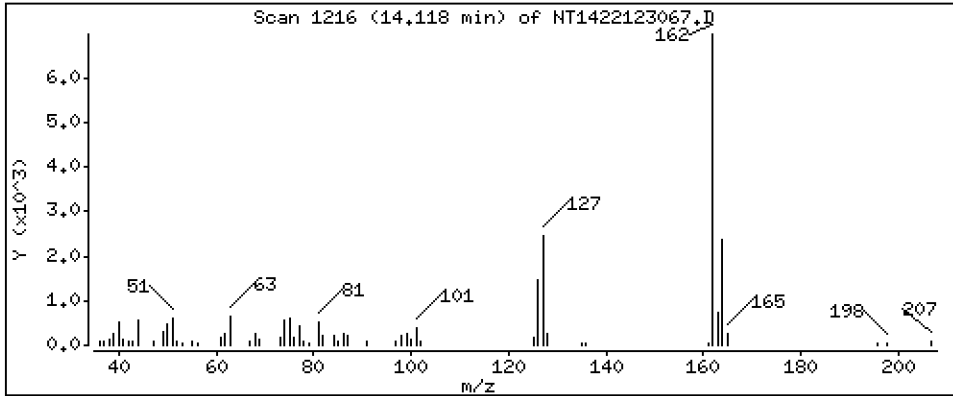
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 0.2346 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

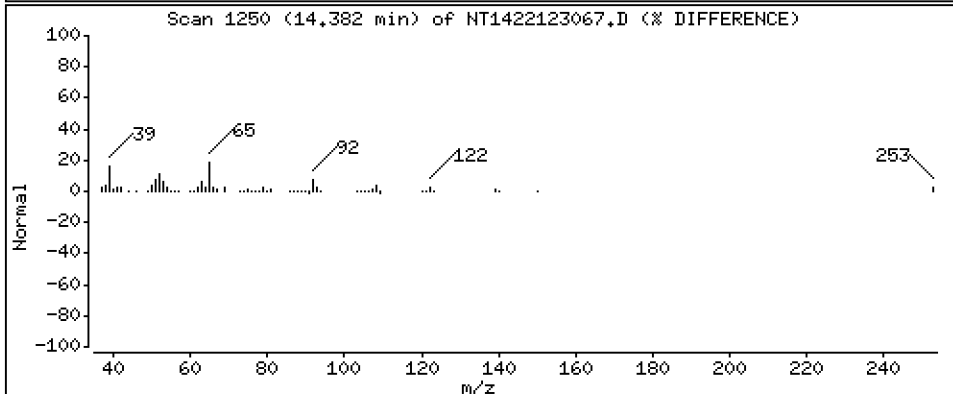
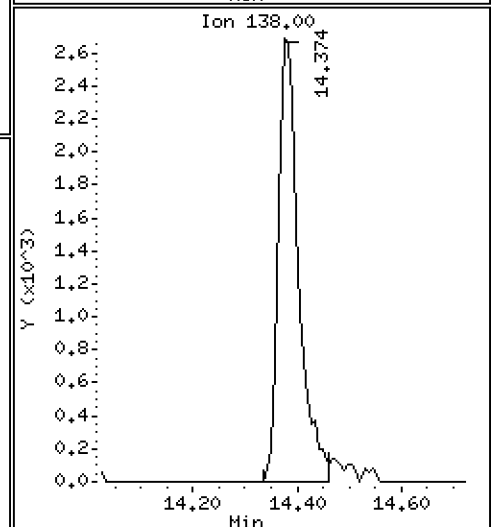
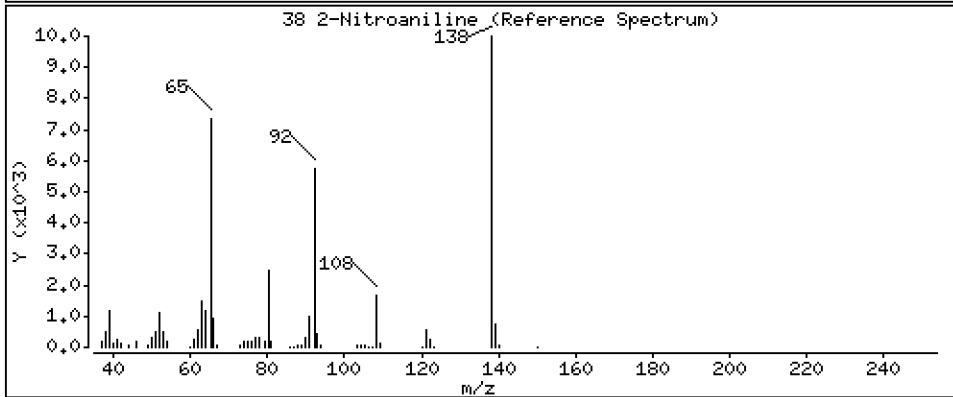
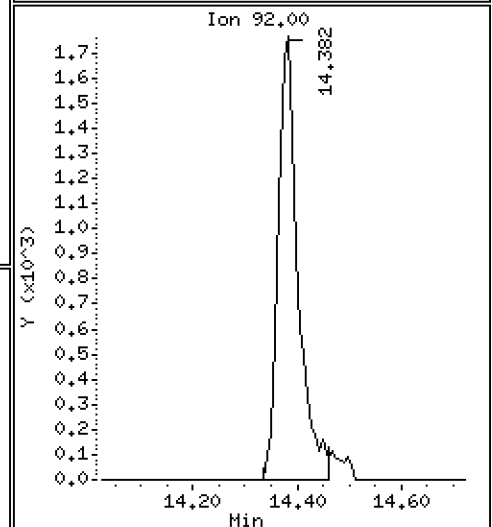
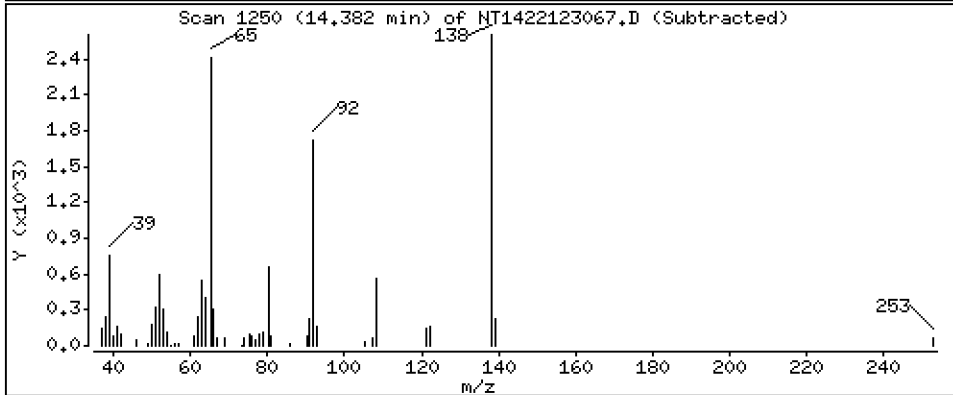
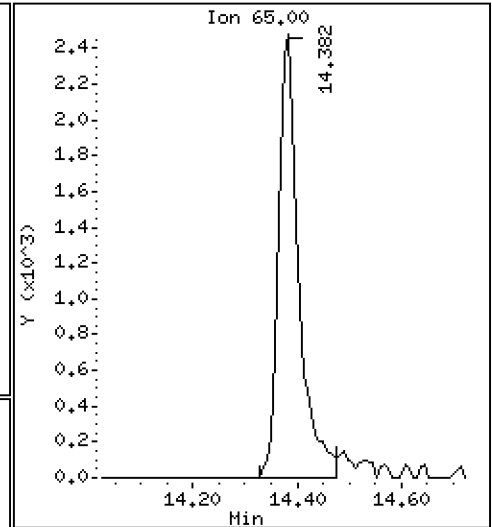
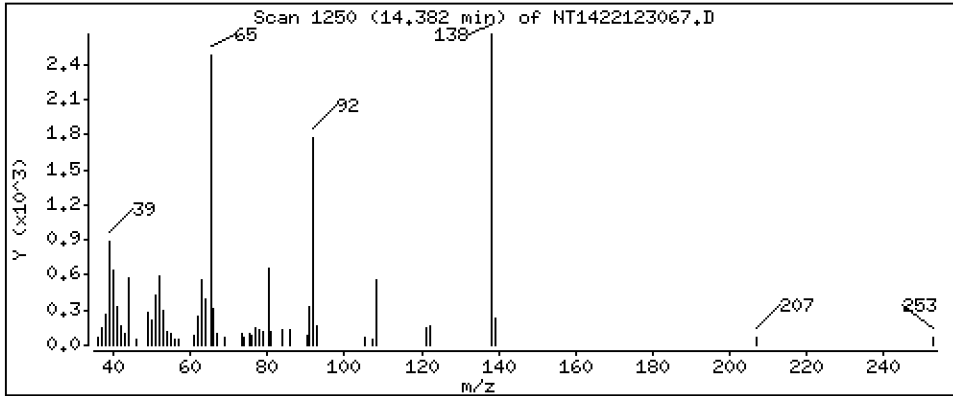
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

38 2-Nitroaniline

Concentration: 0.4296 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

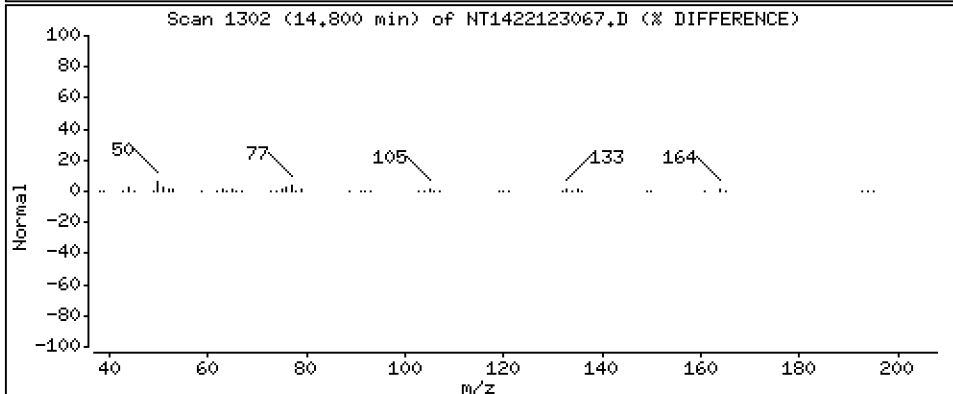
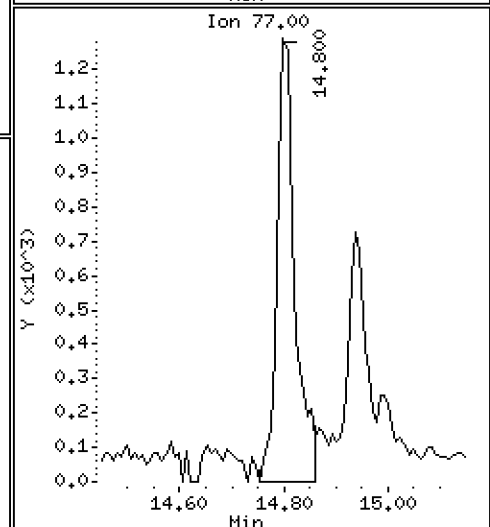
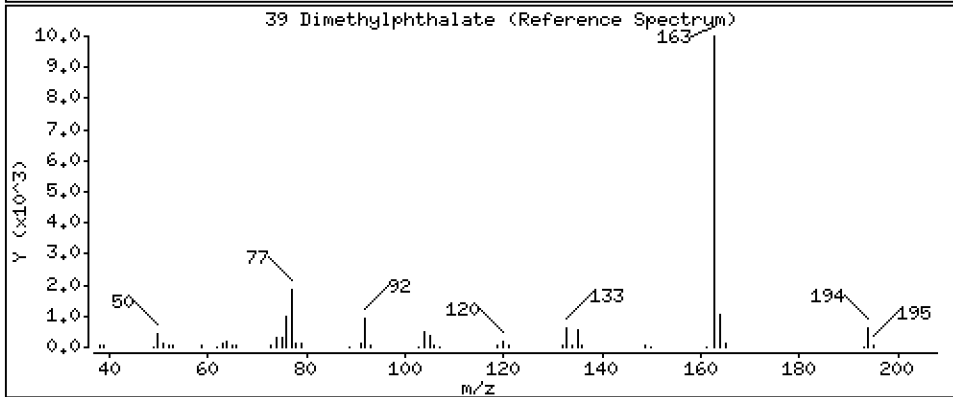
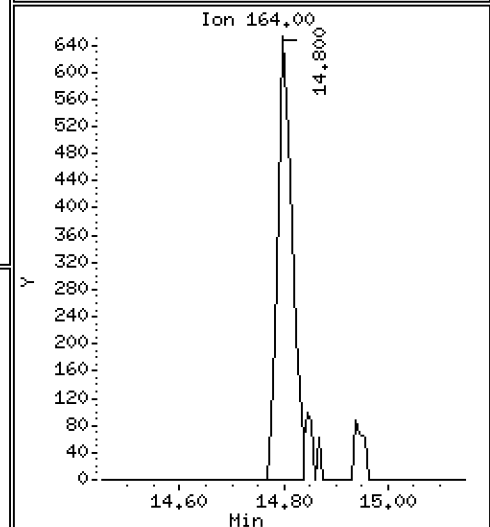
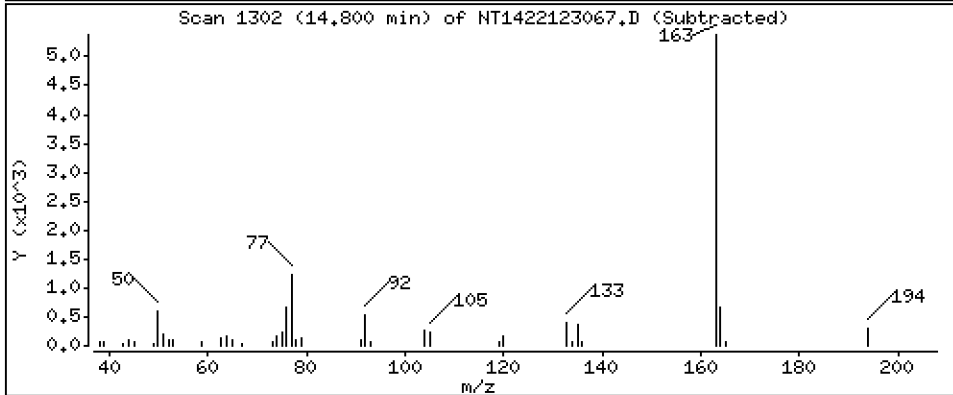
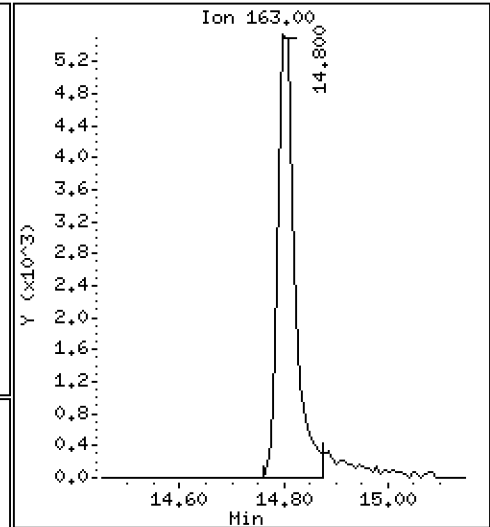
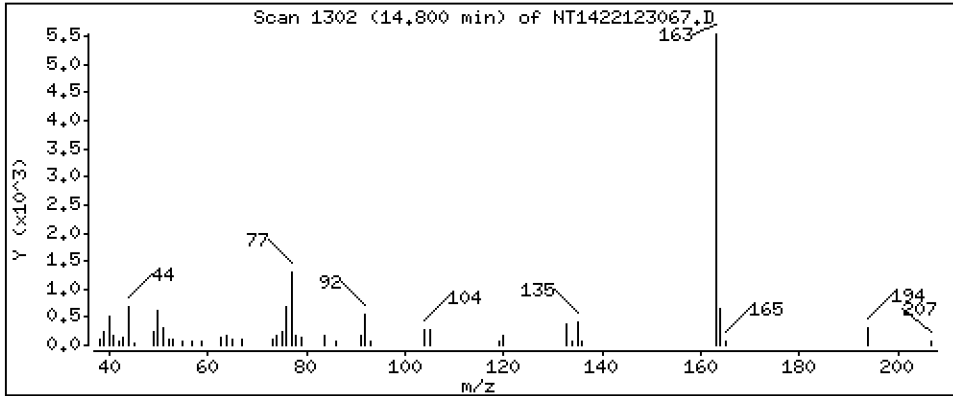
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,2138 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

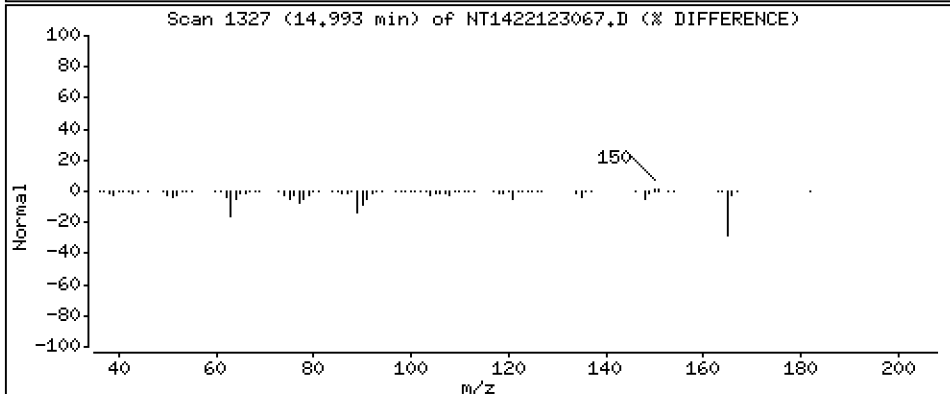
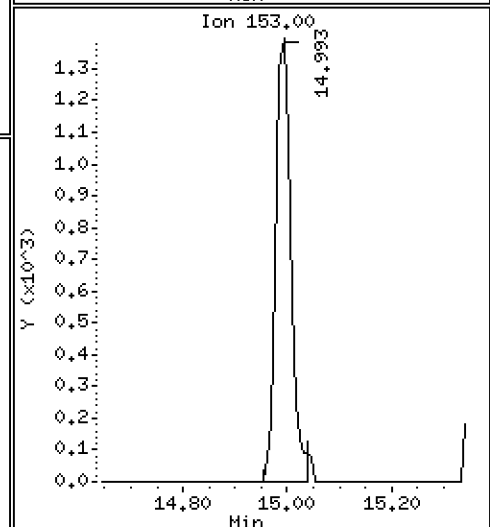
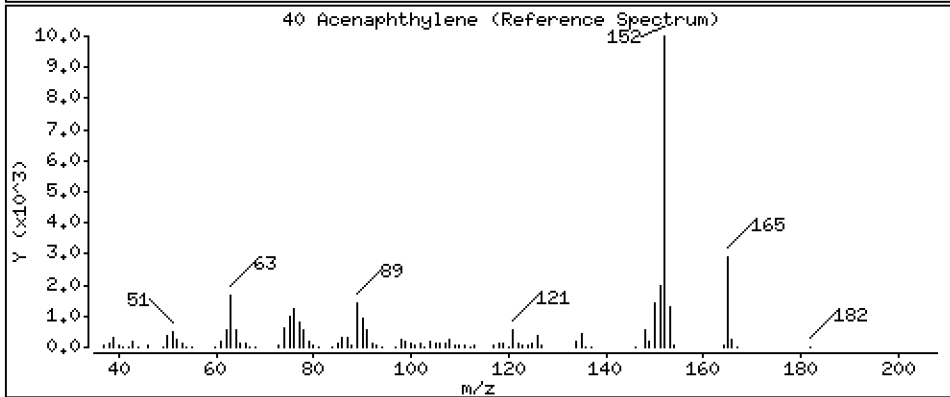
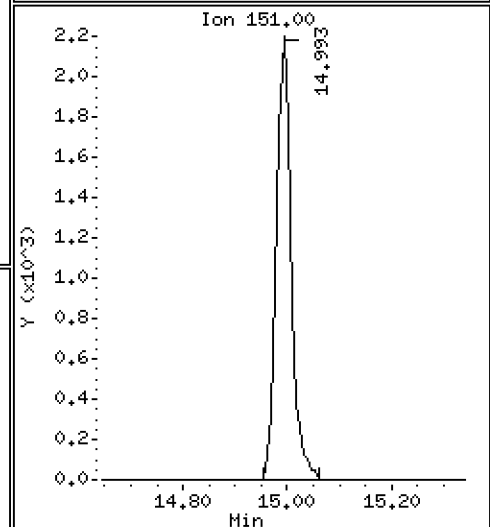
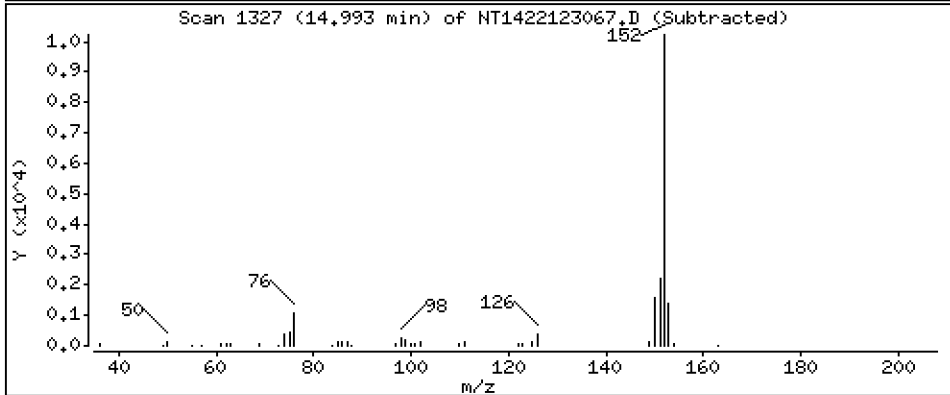
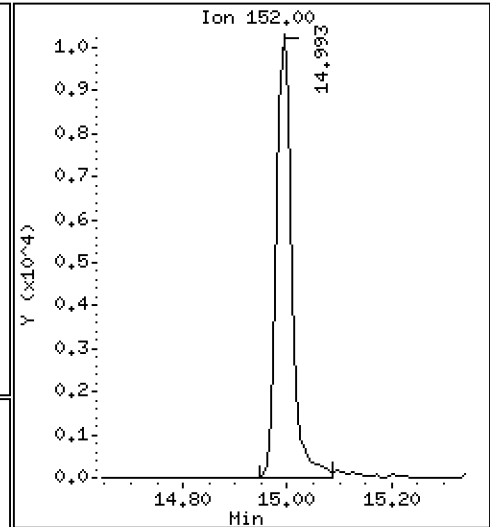
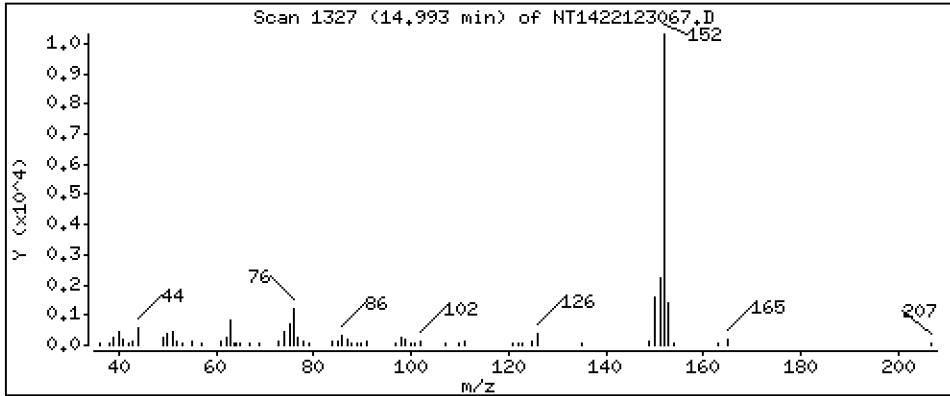
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,2291 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

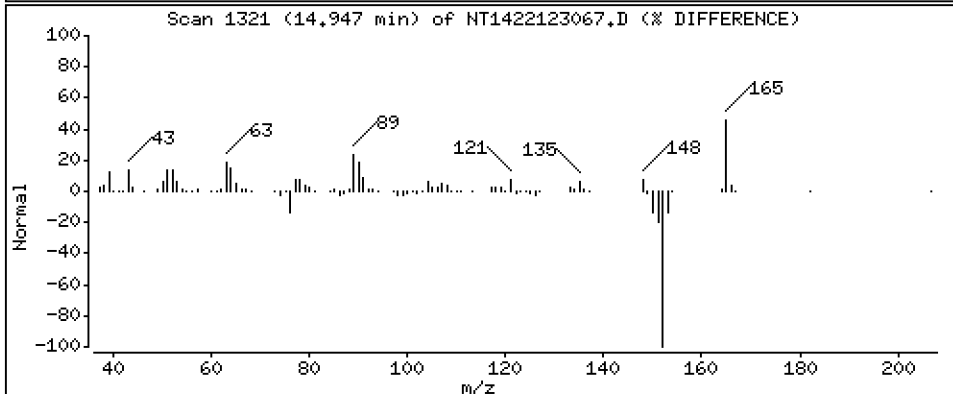
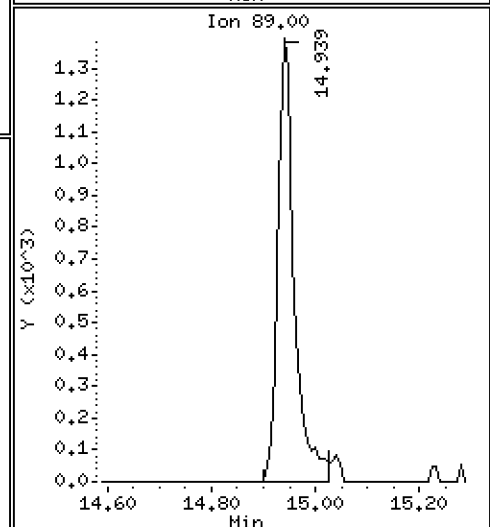
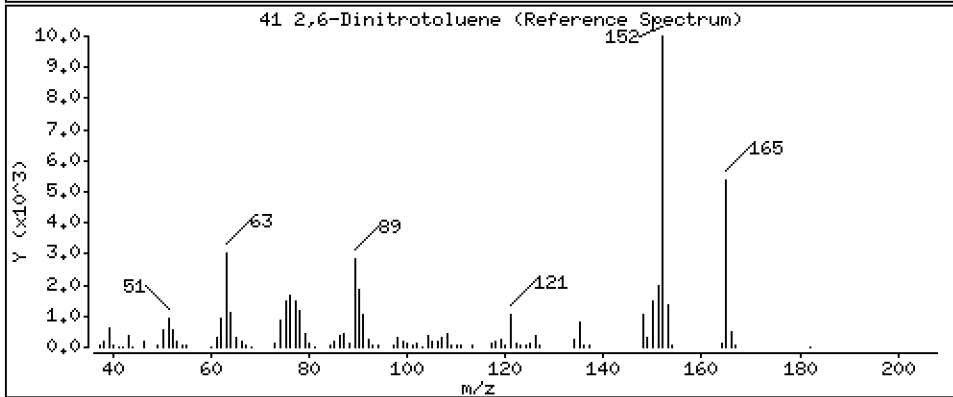
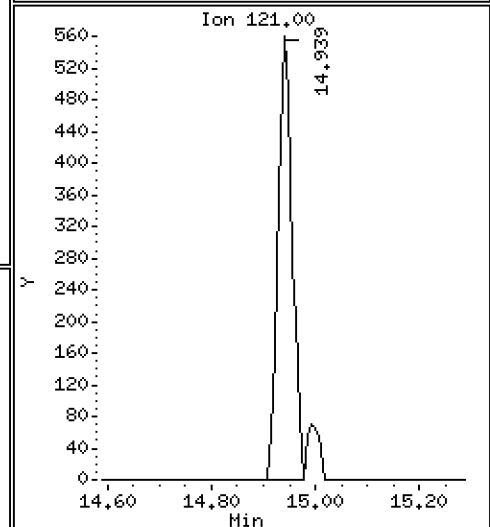
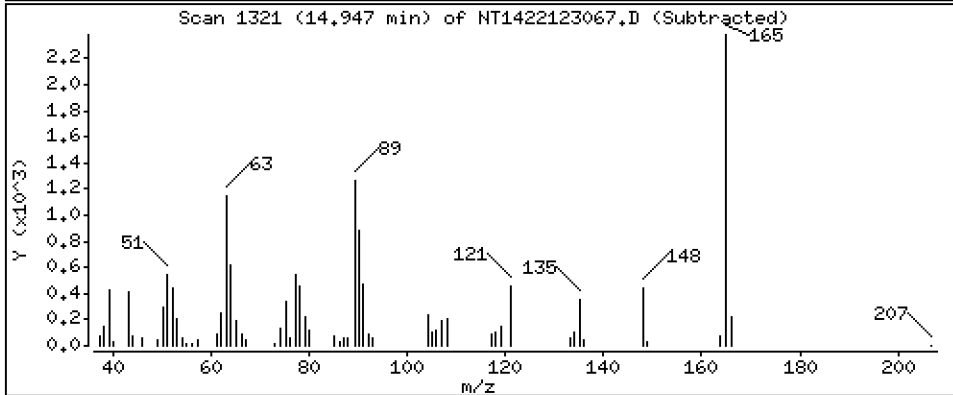
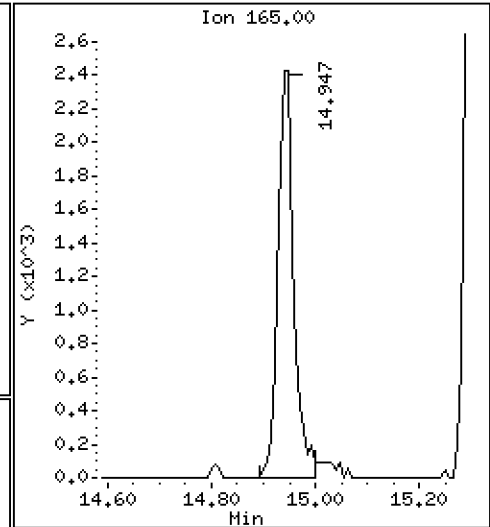
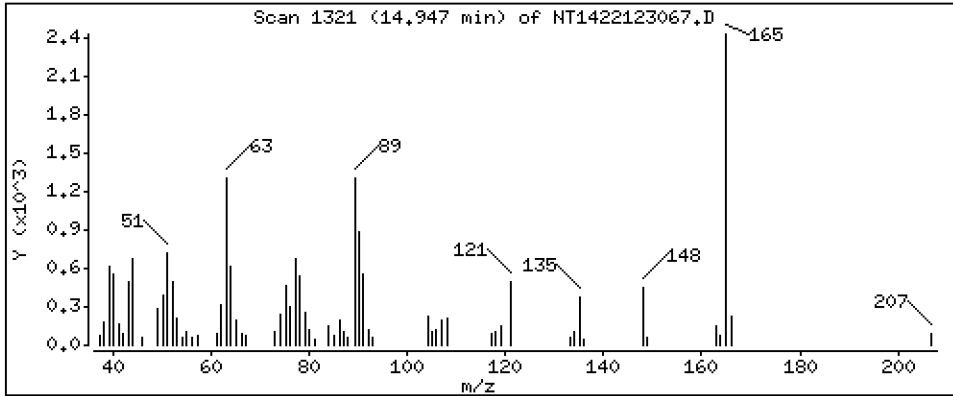
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

41 2,6-Dinitrotoluene

Concentration: 0.3820 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

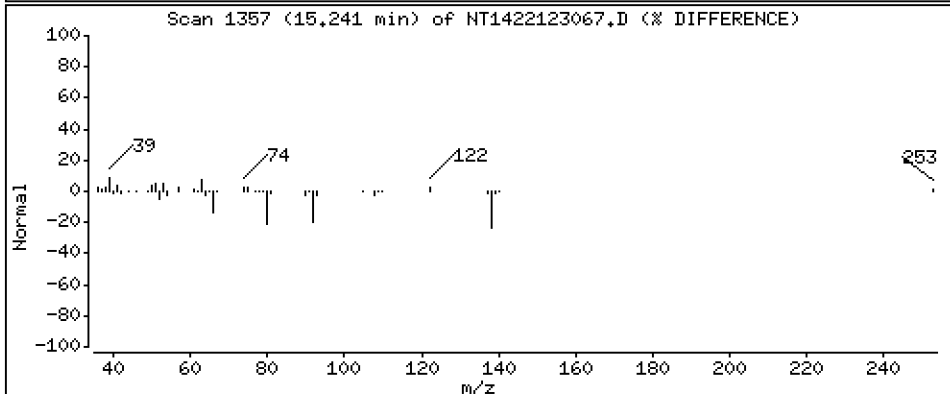
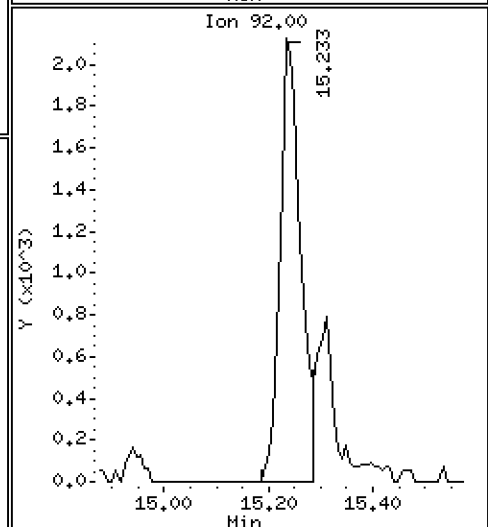
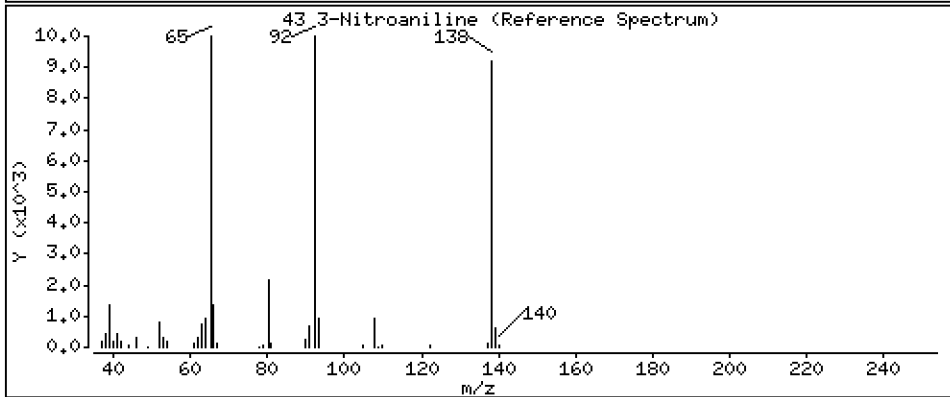
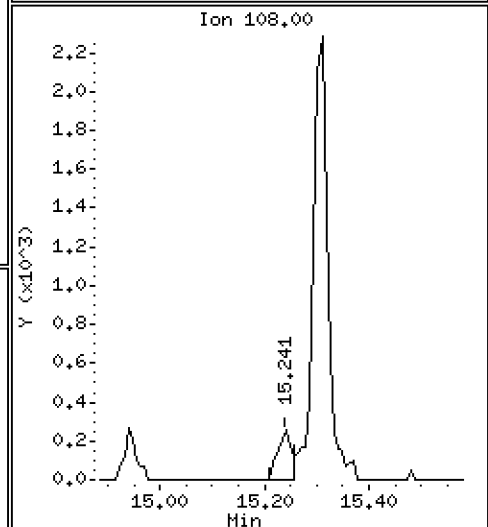
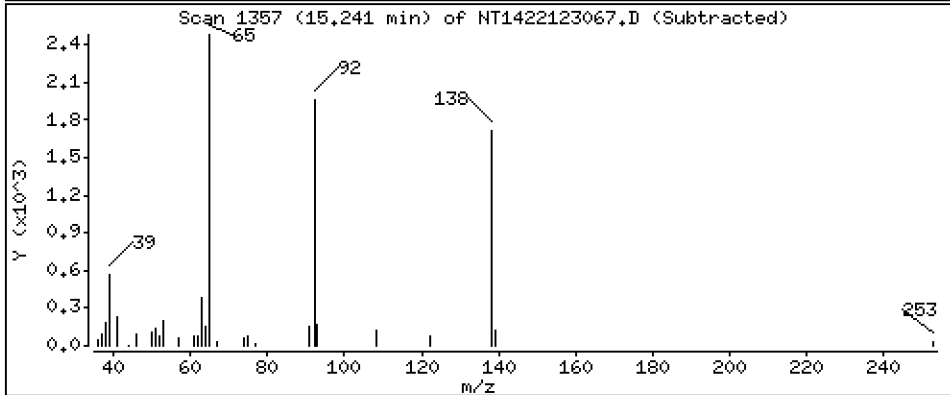
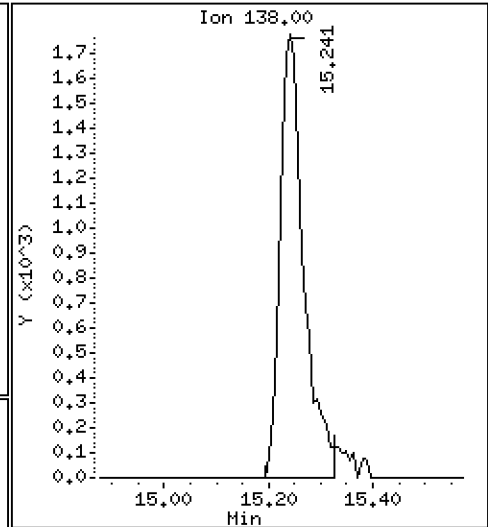
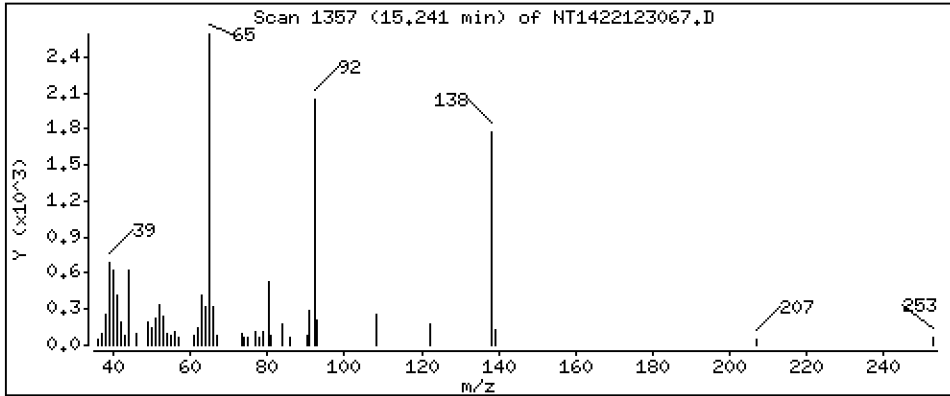
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

43 3-Nitroaniline

Concentration: 0.3563 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

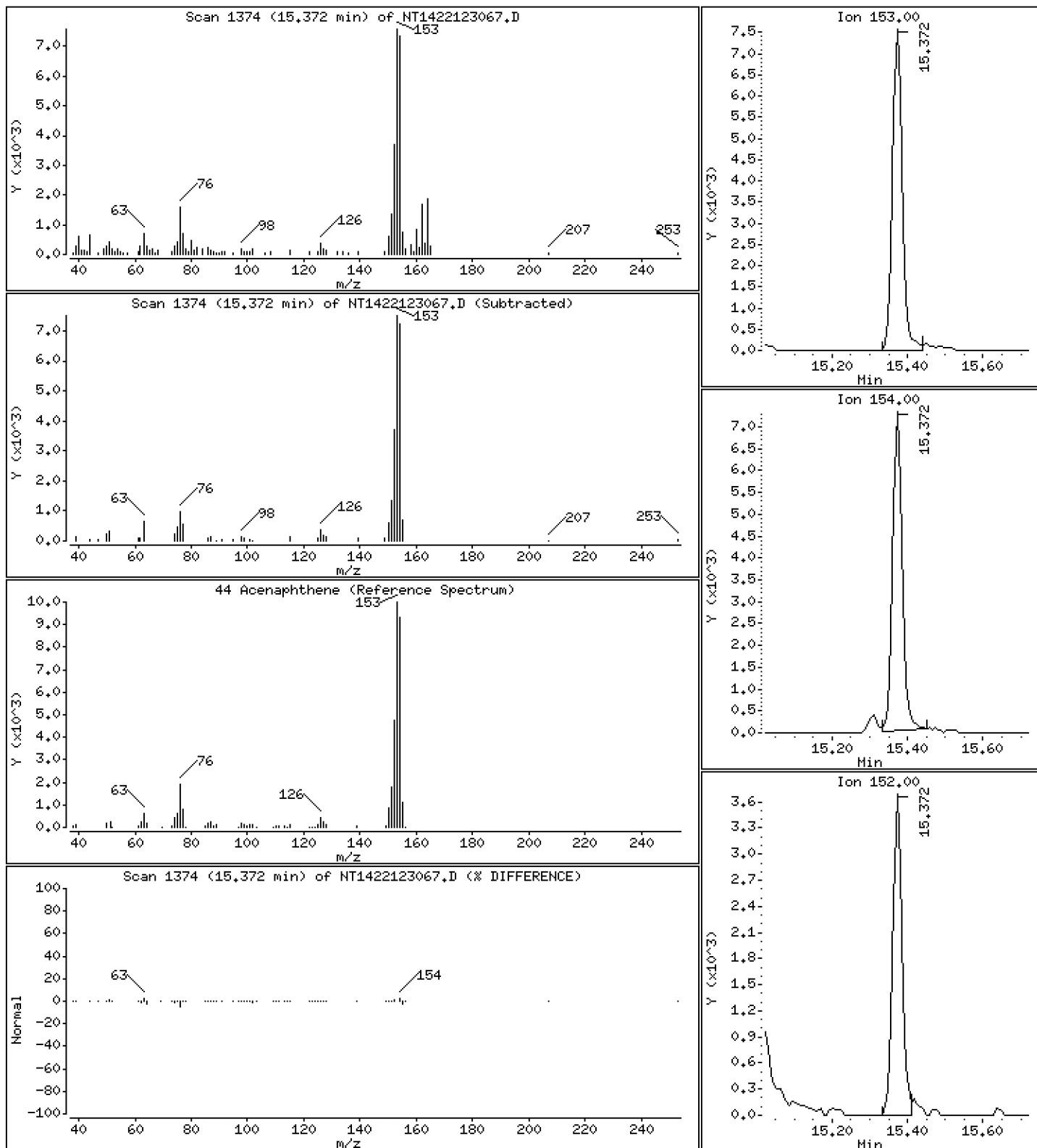
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

44 Acenaphthene

Concentration: 0,2358 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

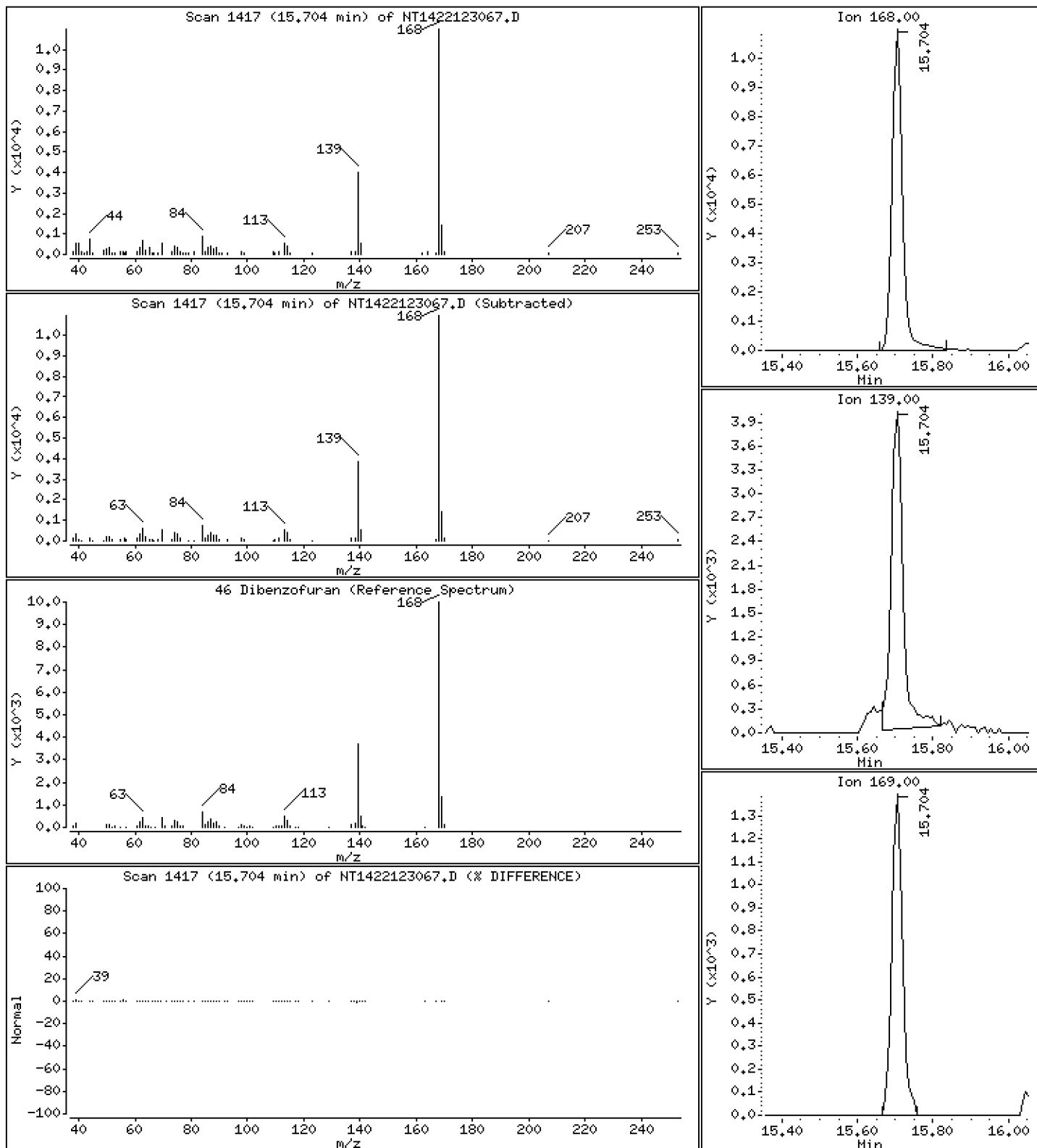
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,2405 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

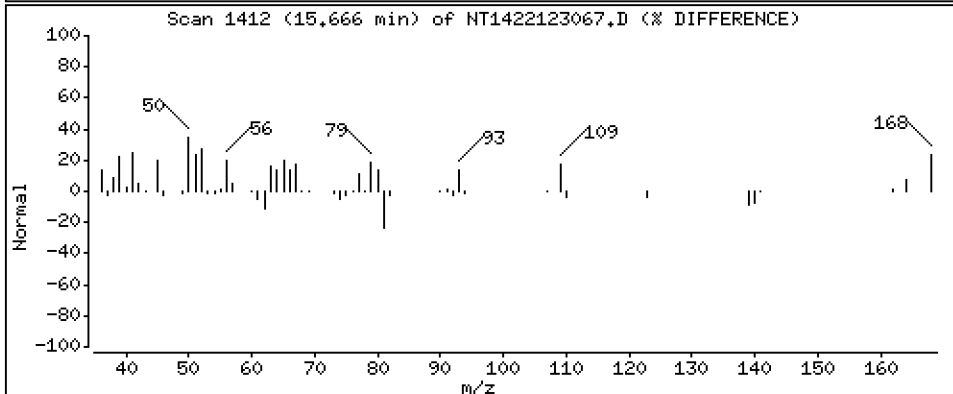
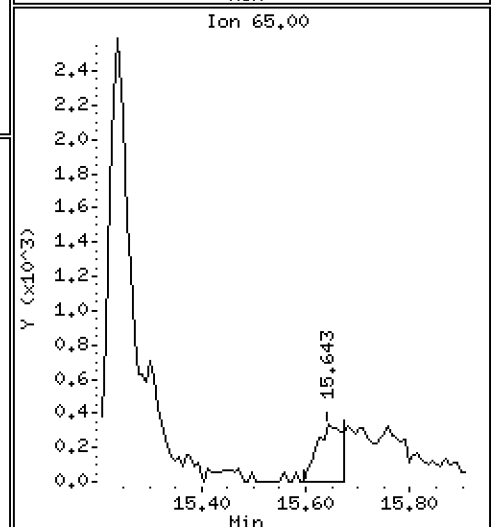
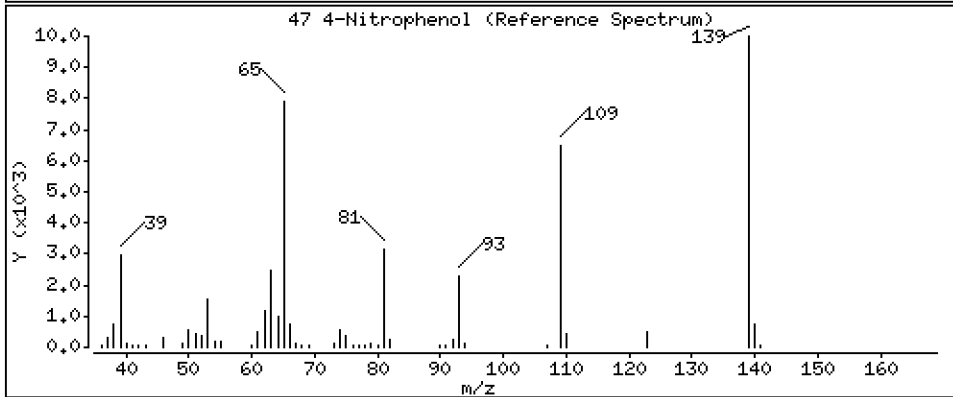
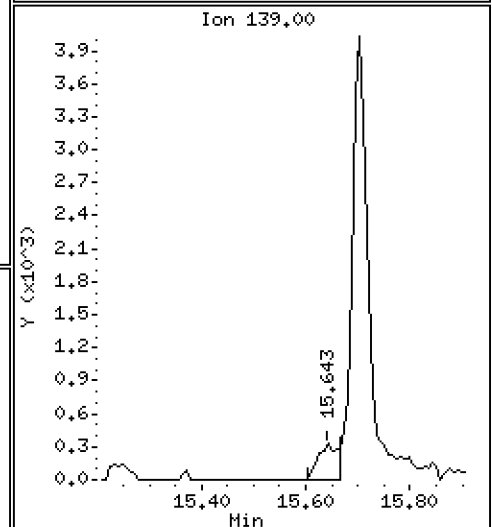
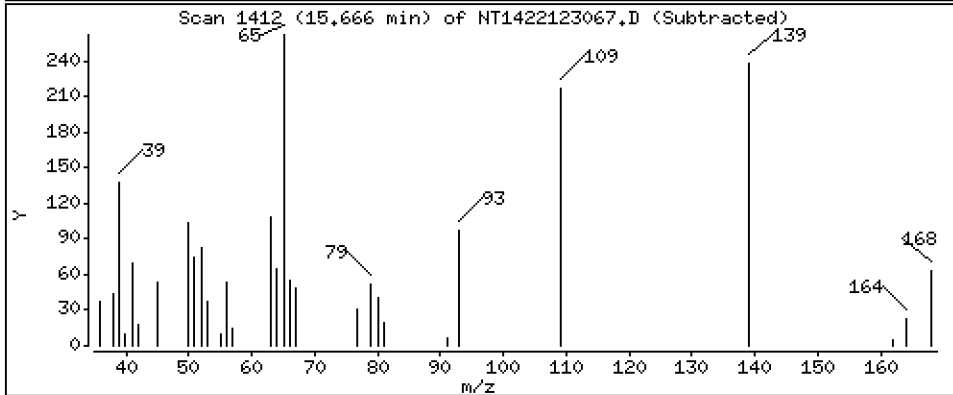
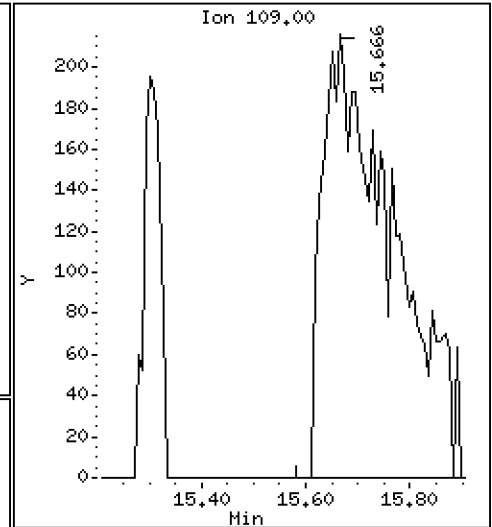
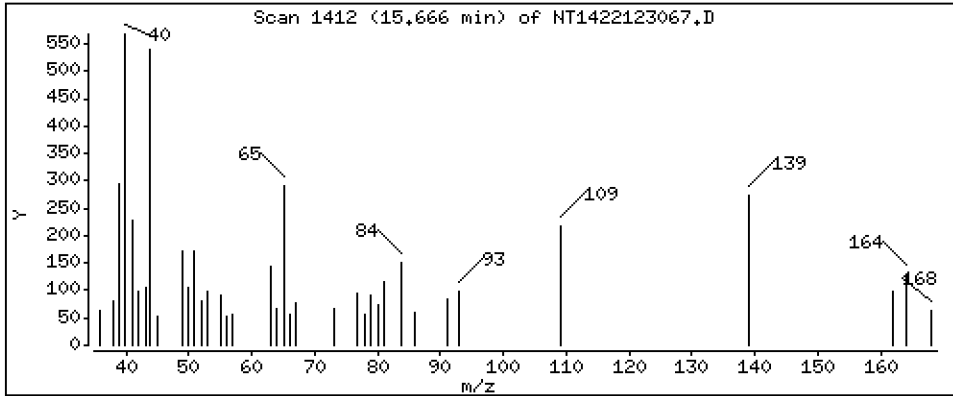
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,2680 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

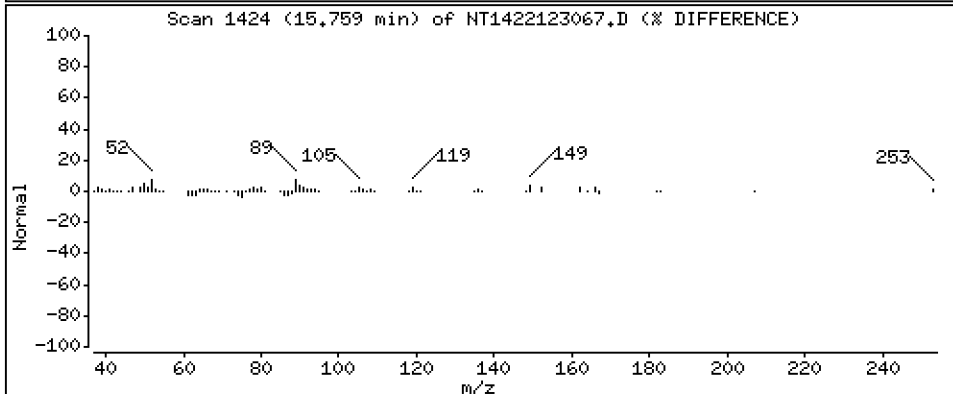
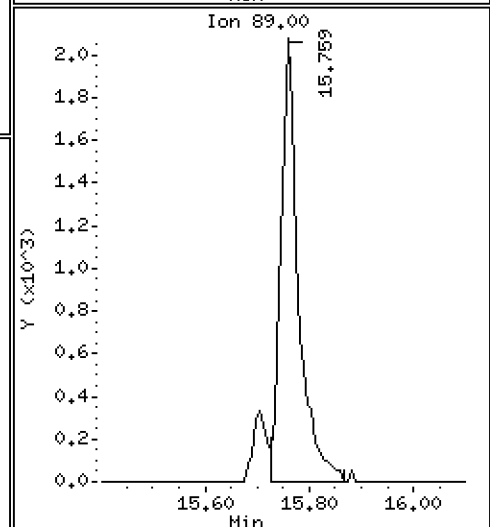
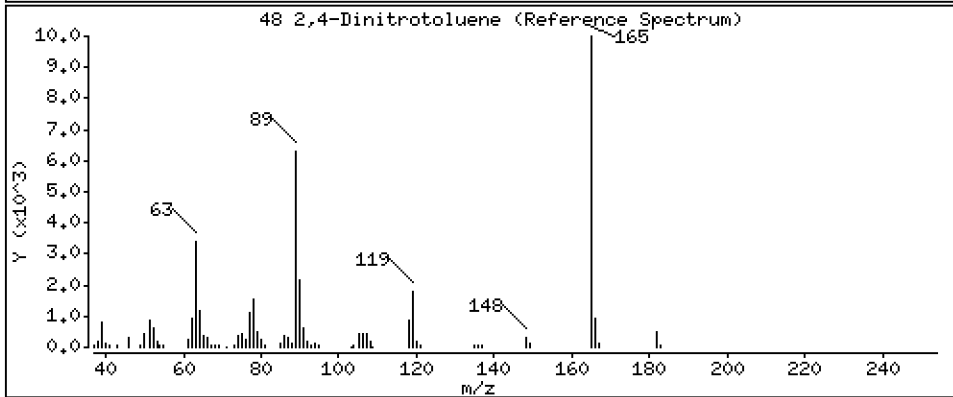
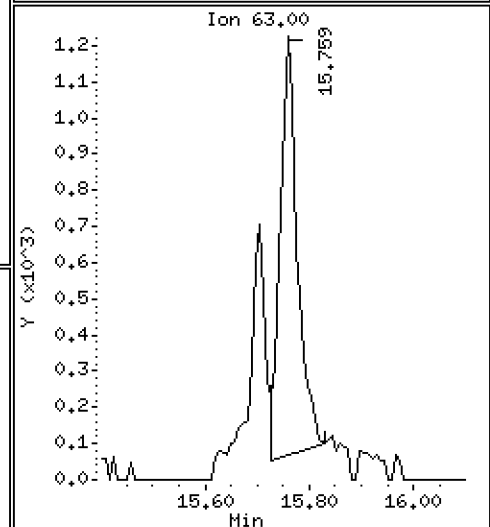
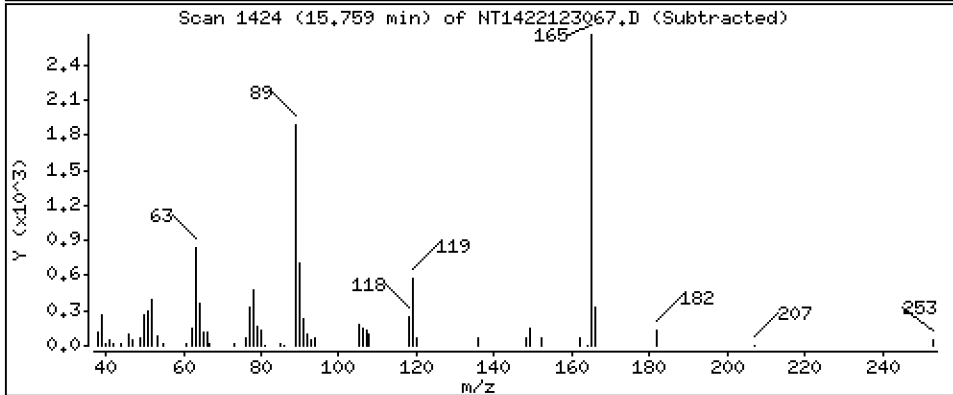
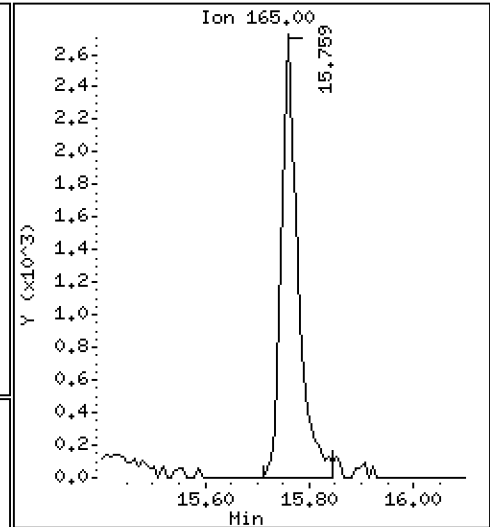
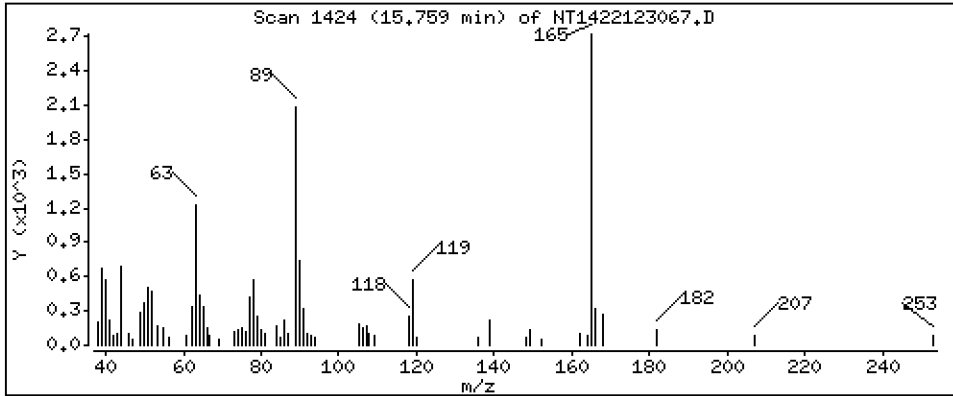
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

48 2,4-Dinitrotoluene

Concentration: 0.3389 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

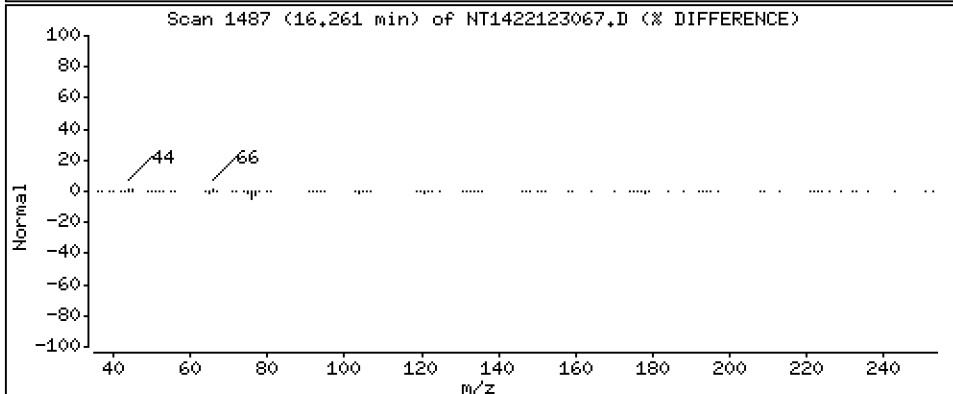
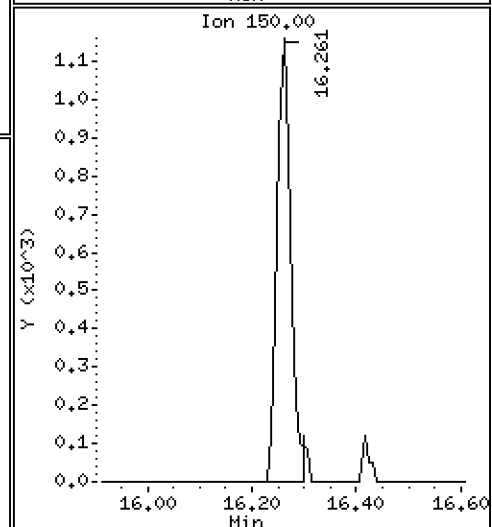
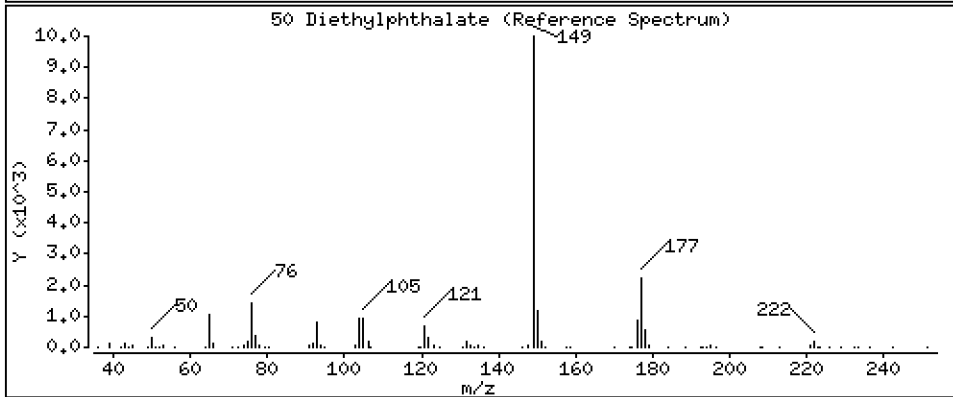
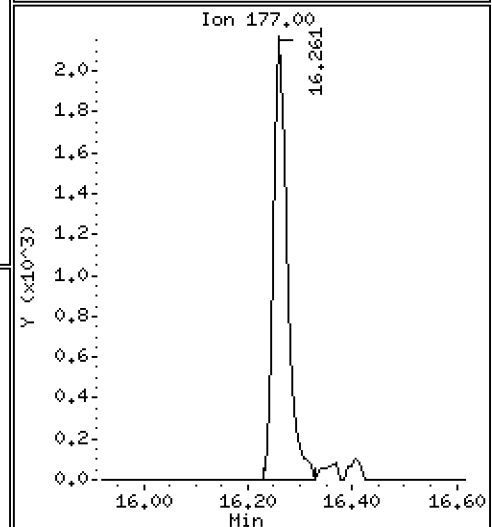
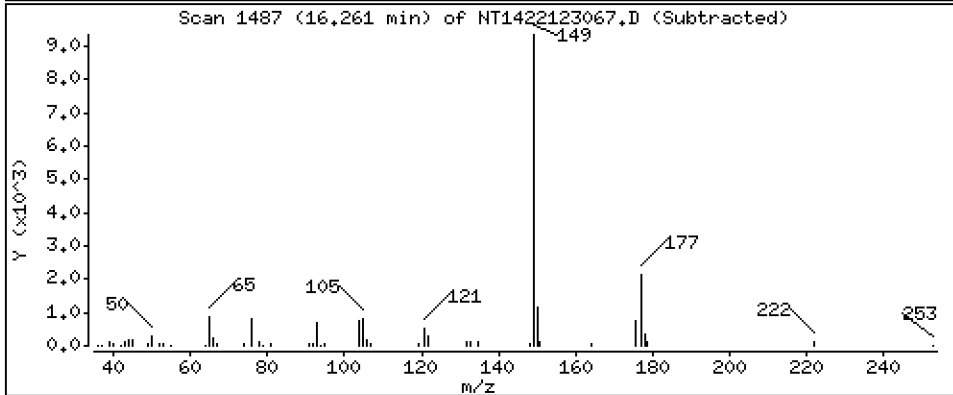
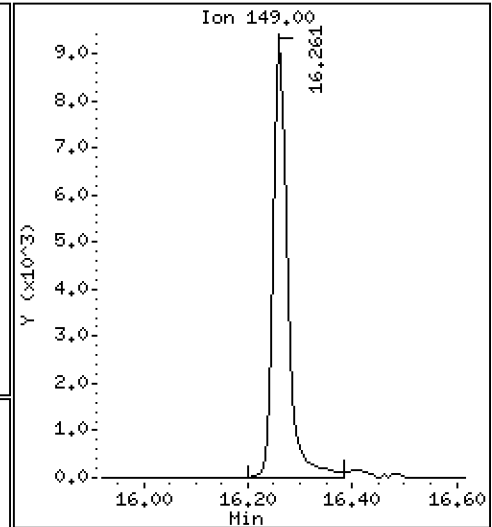
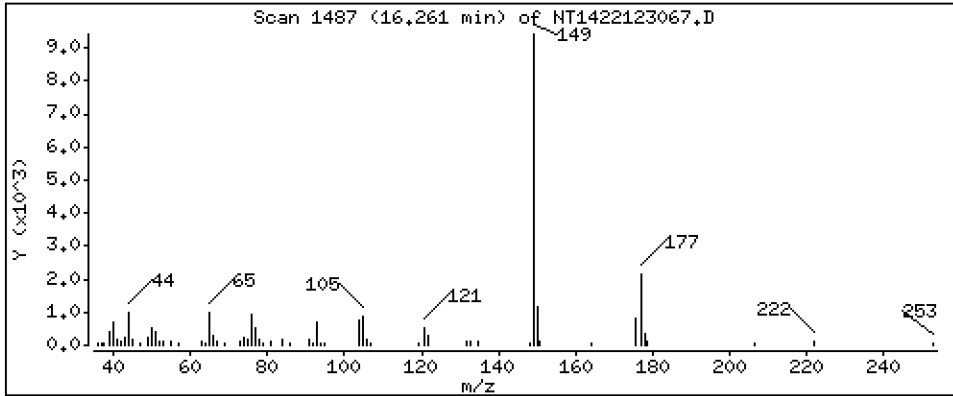
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

50 Diethylphthalate

Concentration: 0,2595 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

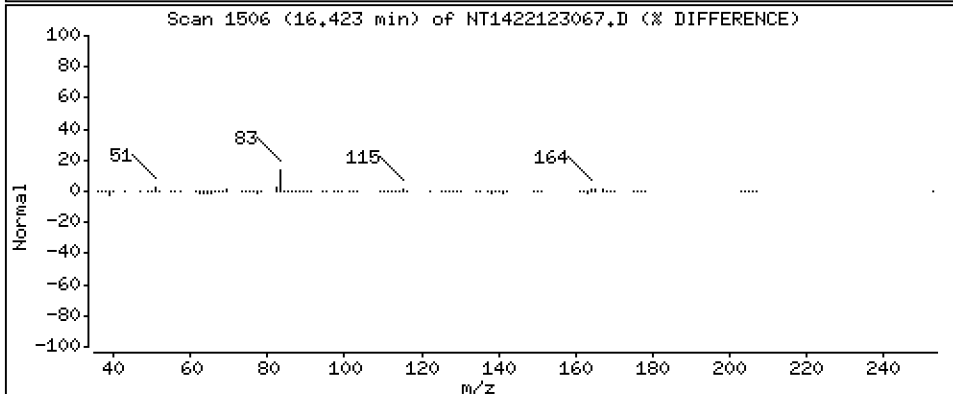
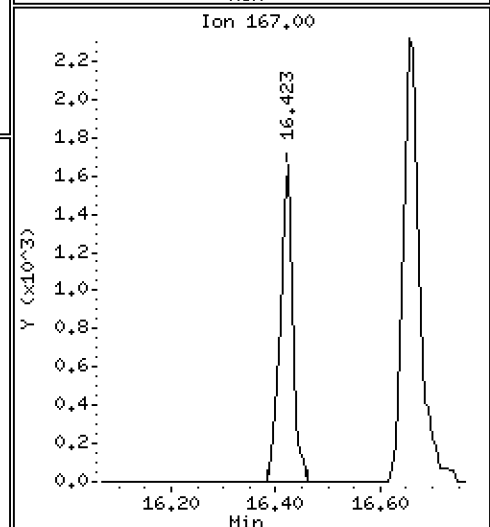
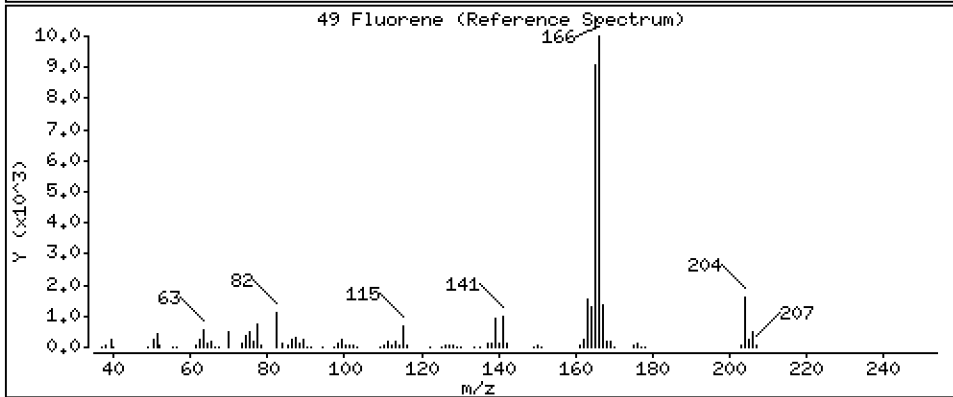
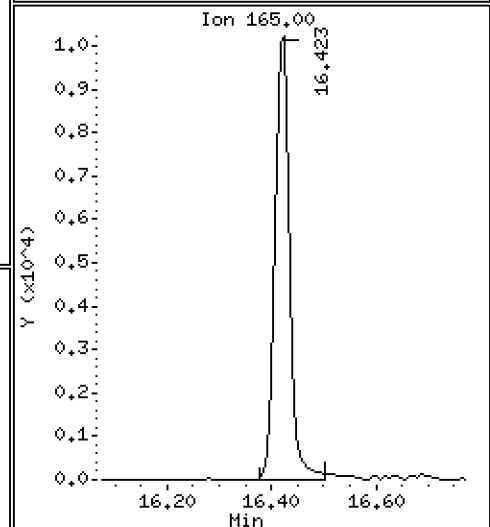
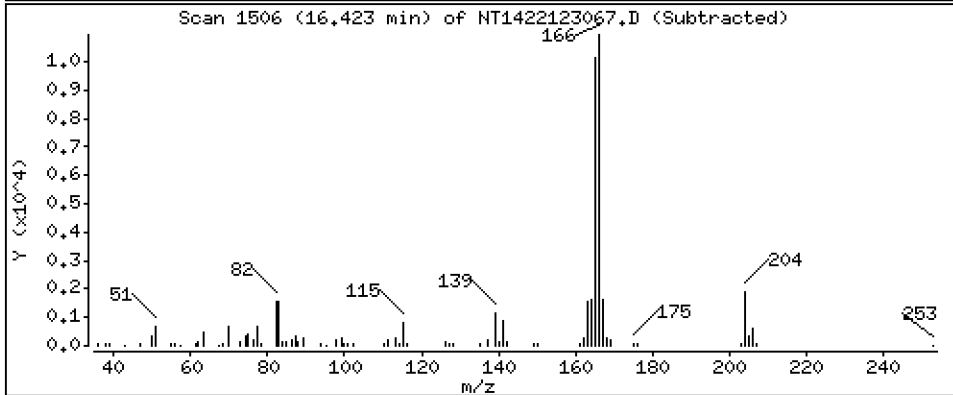
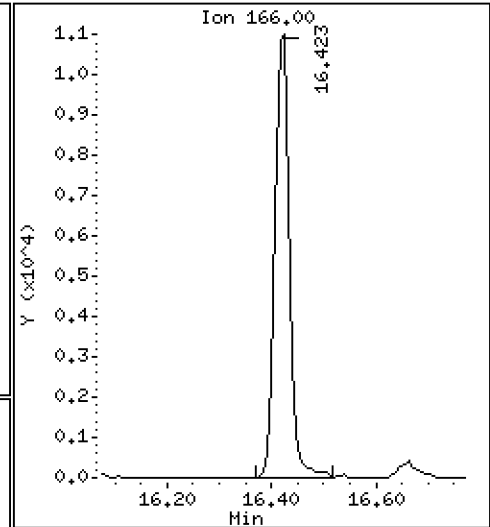
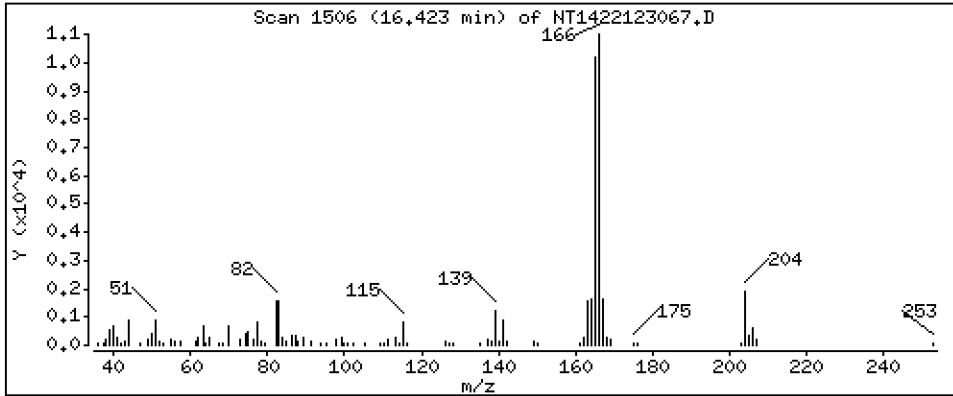
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,2334 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

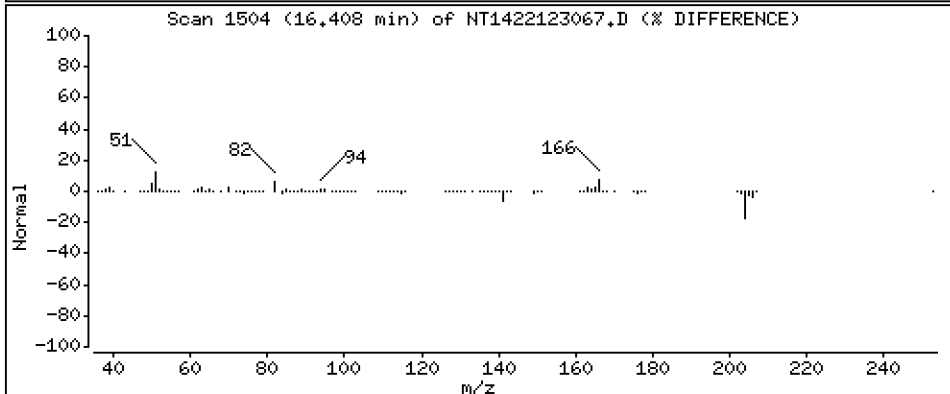
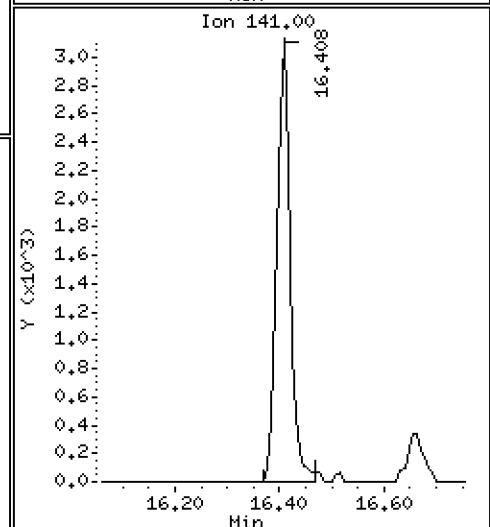
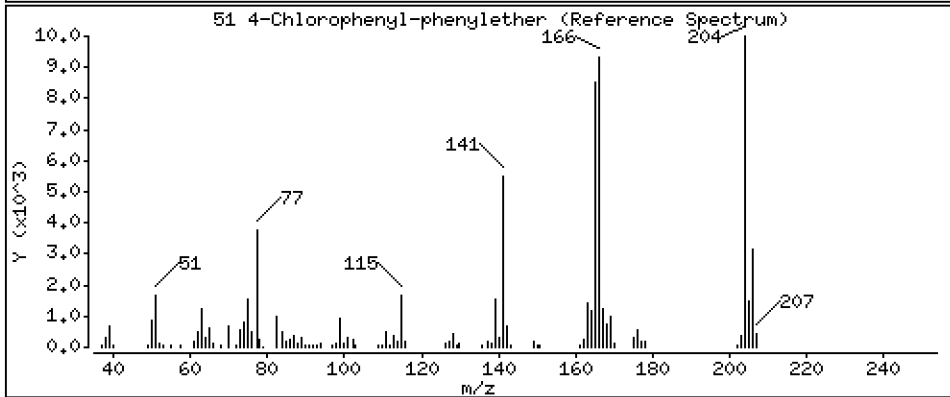
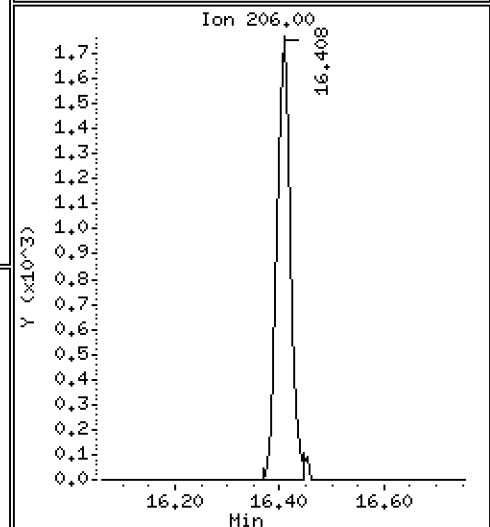
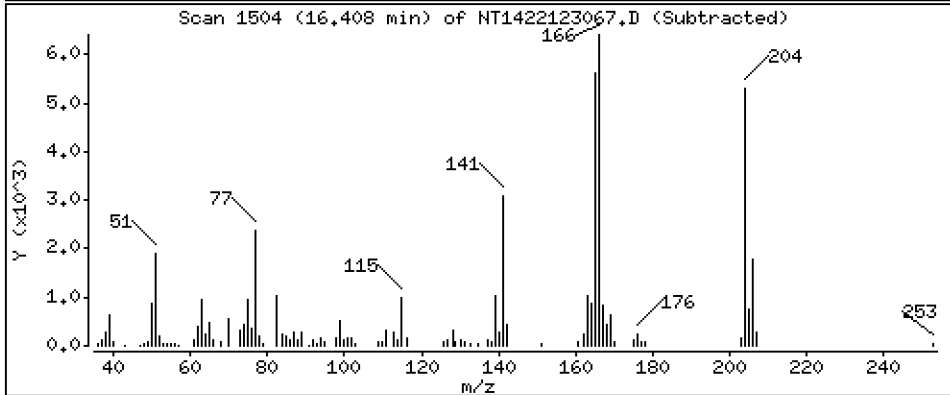
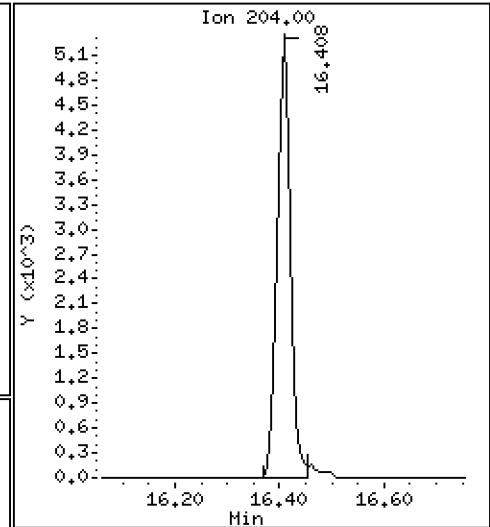
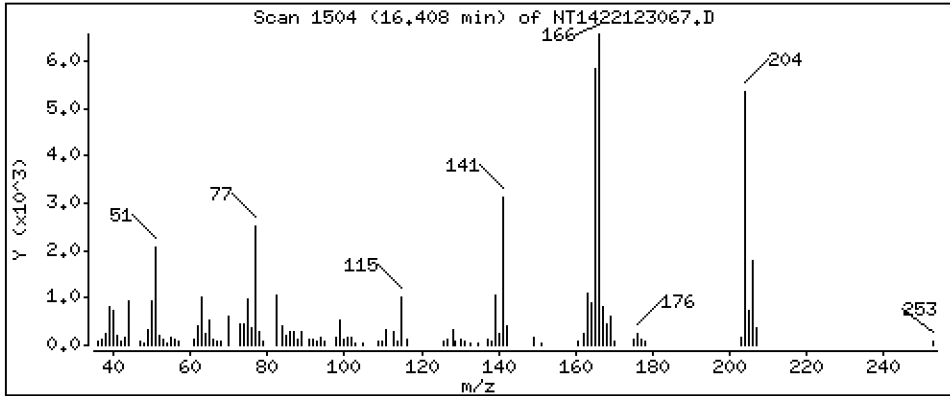
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,2115 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

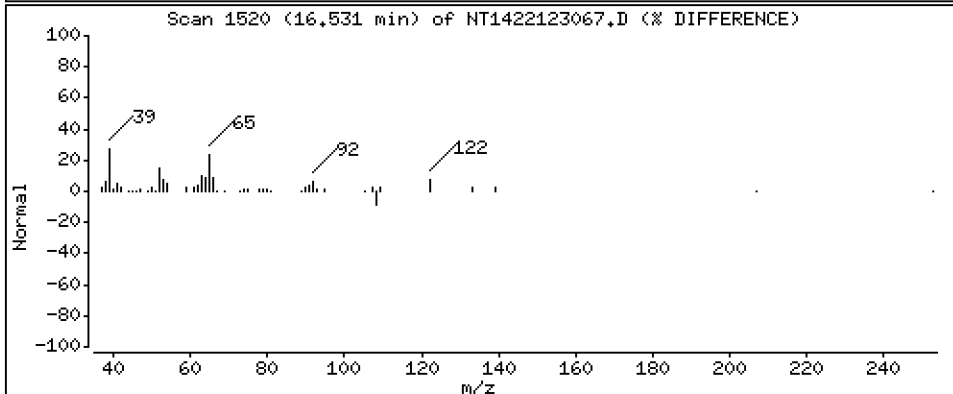
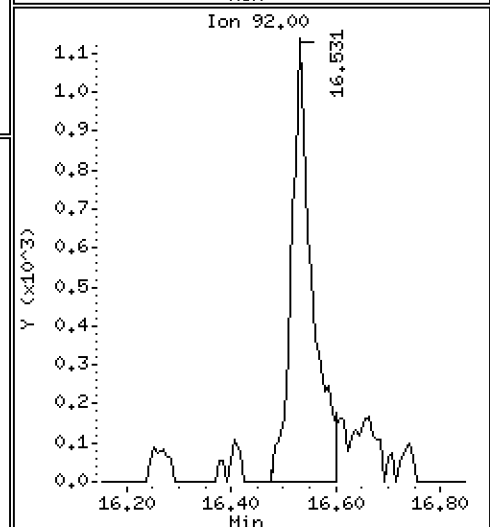
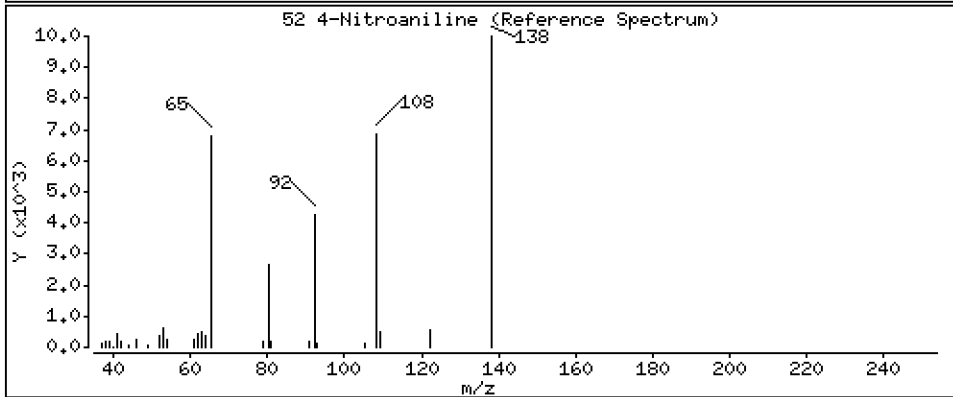
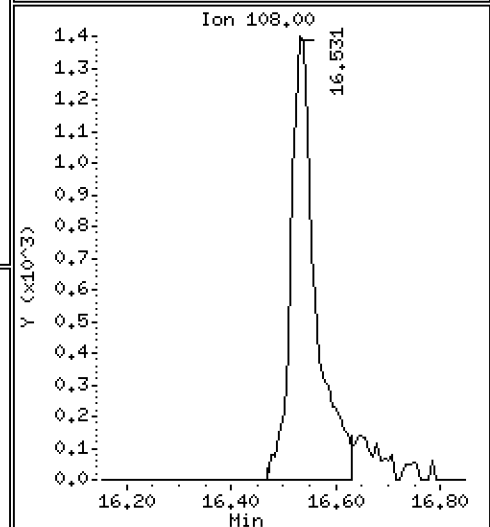
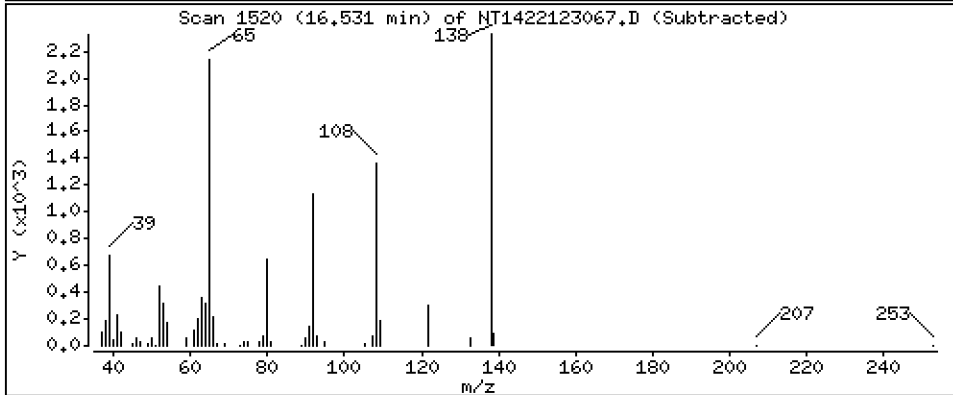
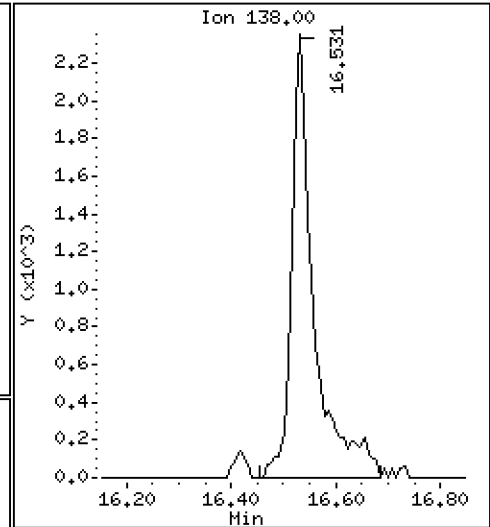
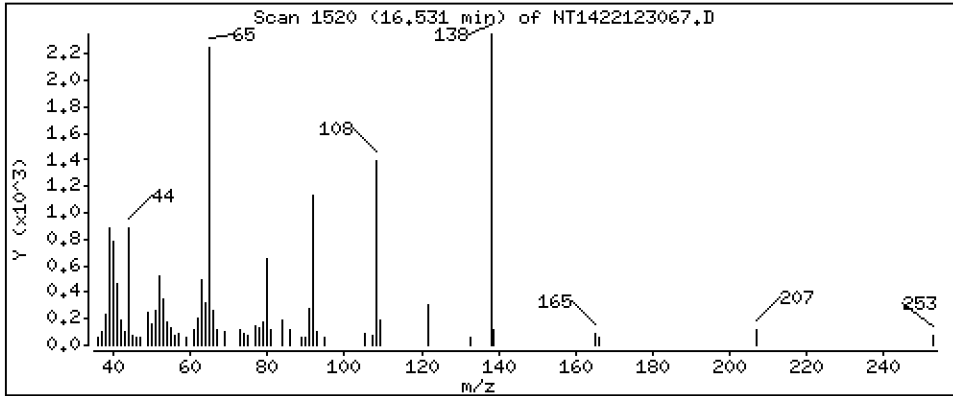
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,3738 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

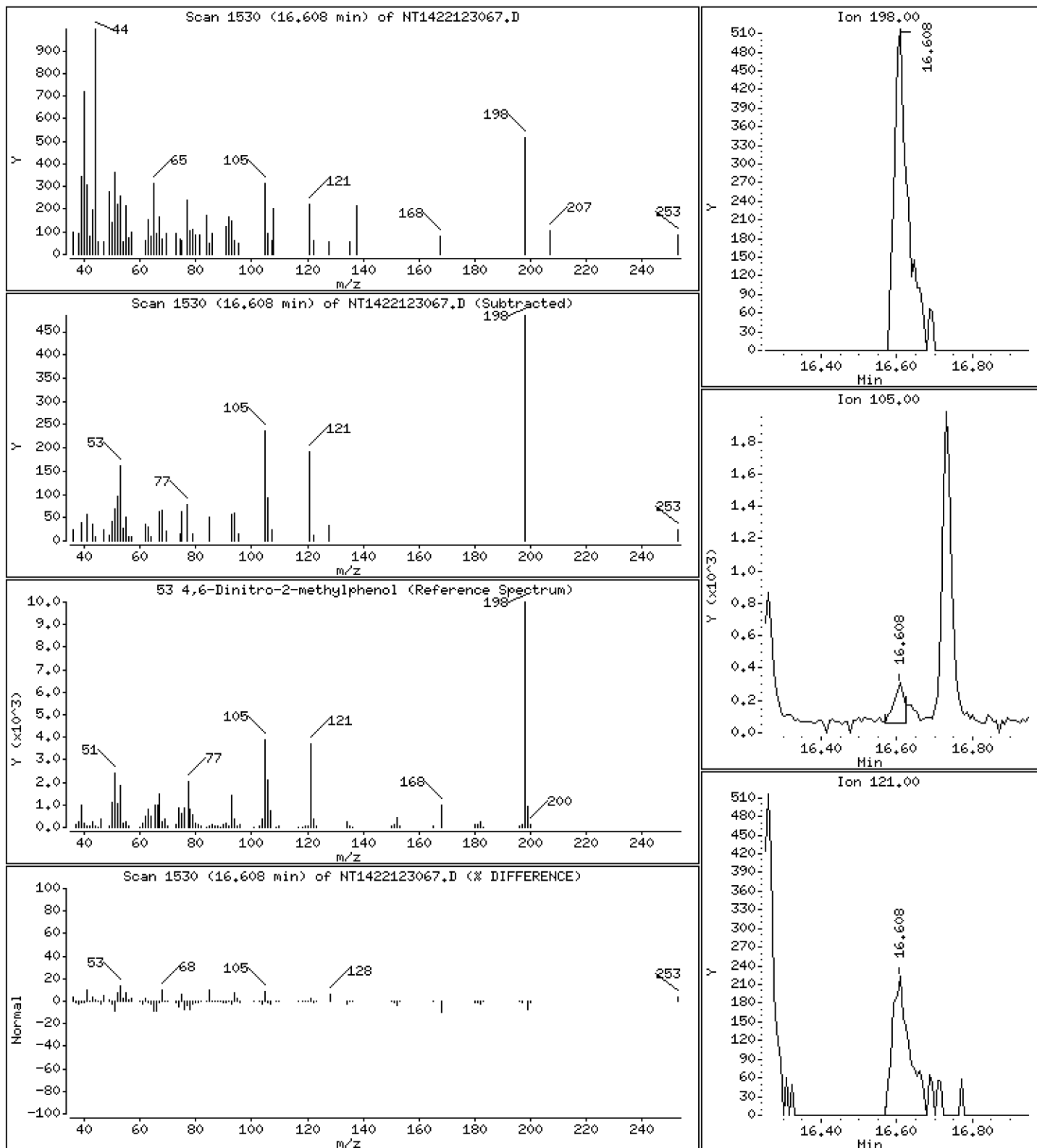
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 0.09261 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

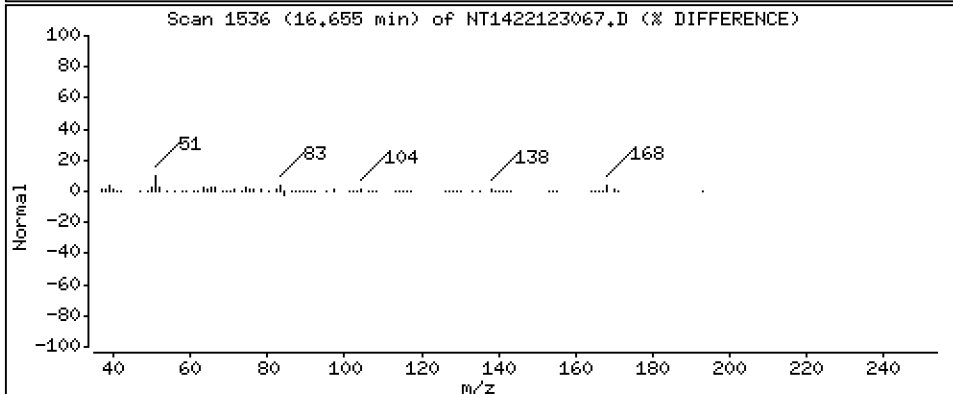
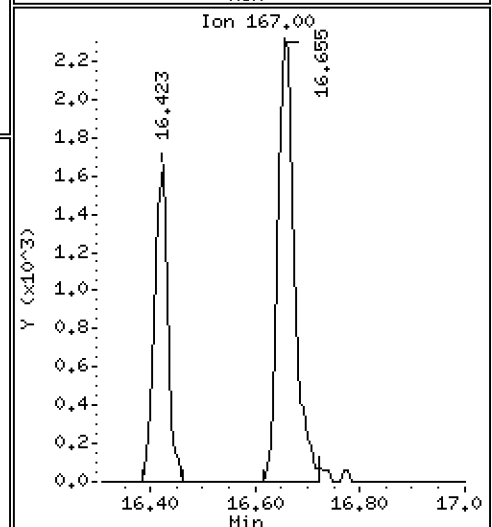
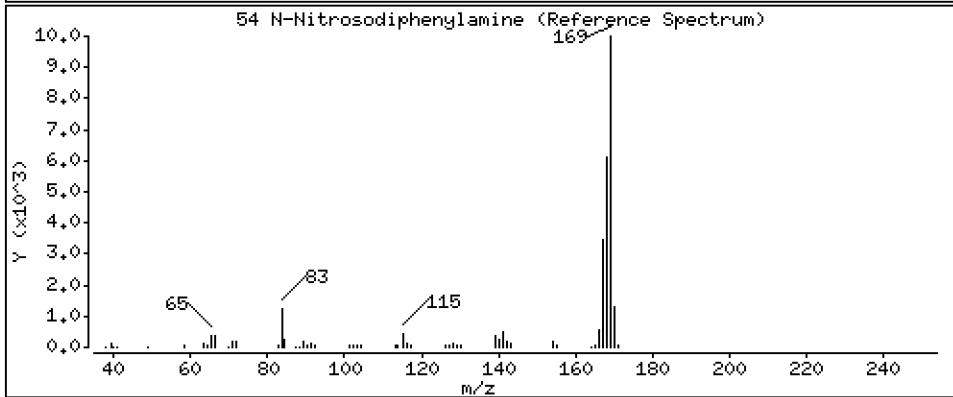
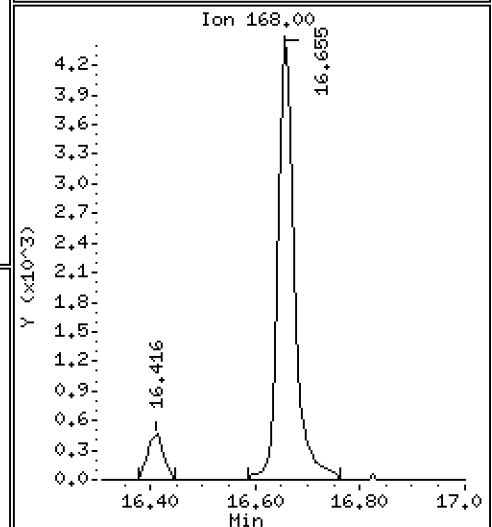
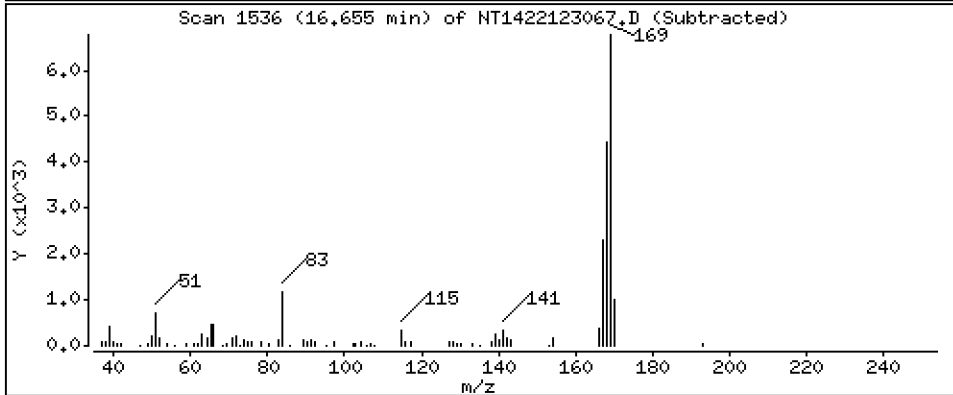
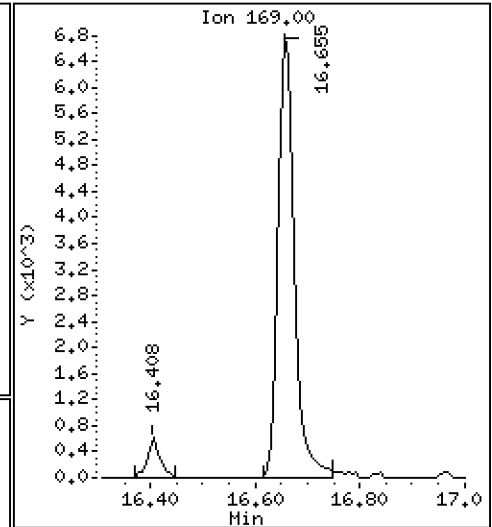
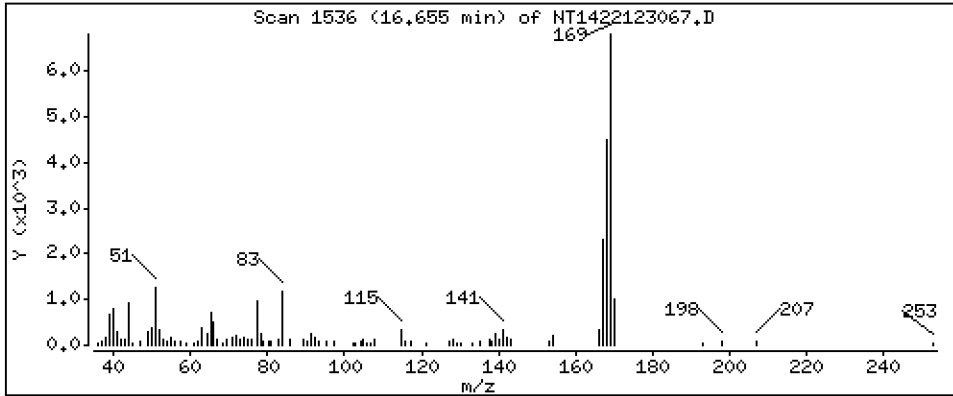
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

54 N-Nitrosodiphenylamine

Concentration: 0,2509 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

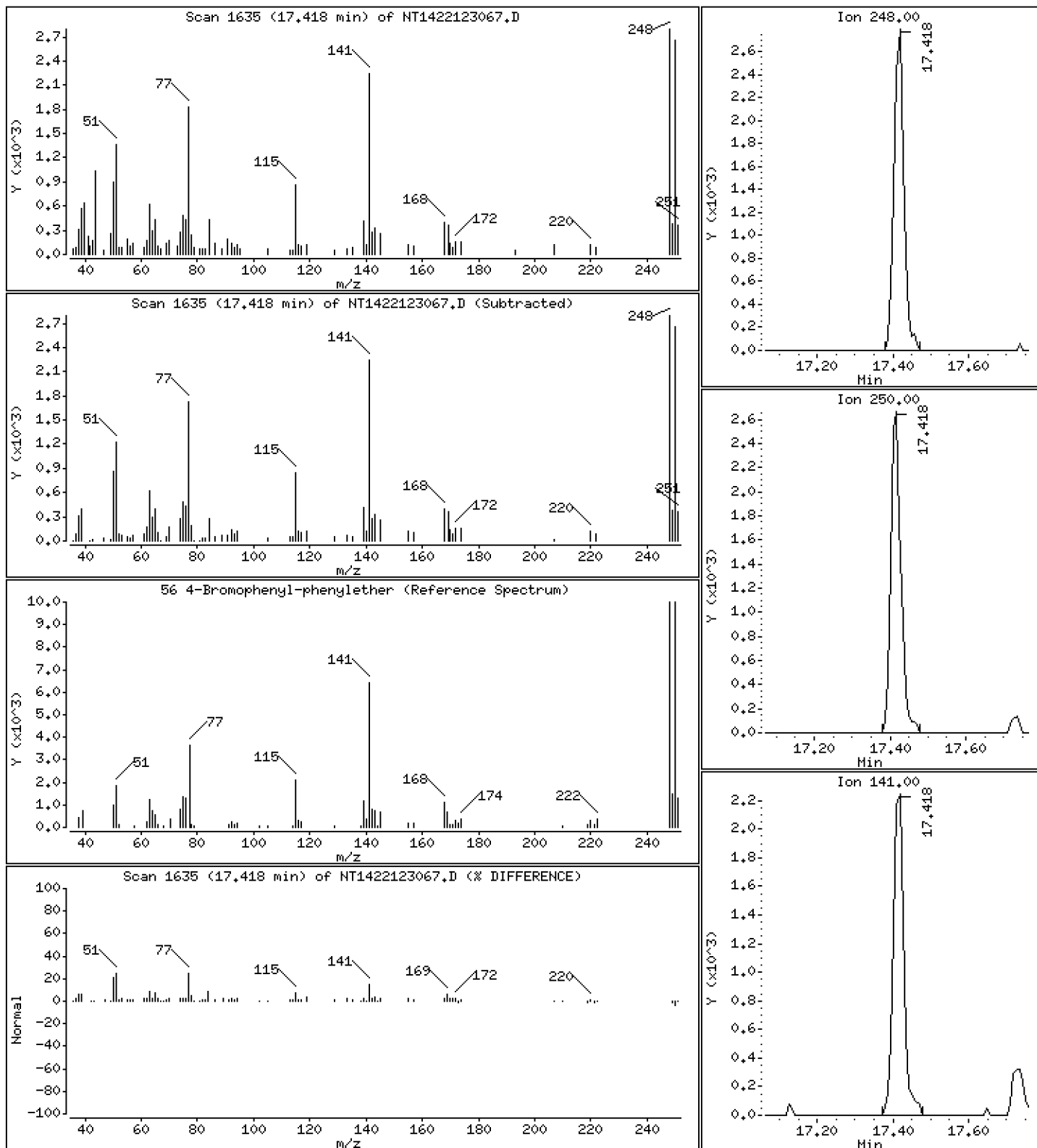
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

56 4-Bromophenyl-phenylether

Concentration: 0.2232 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

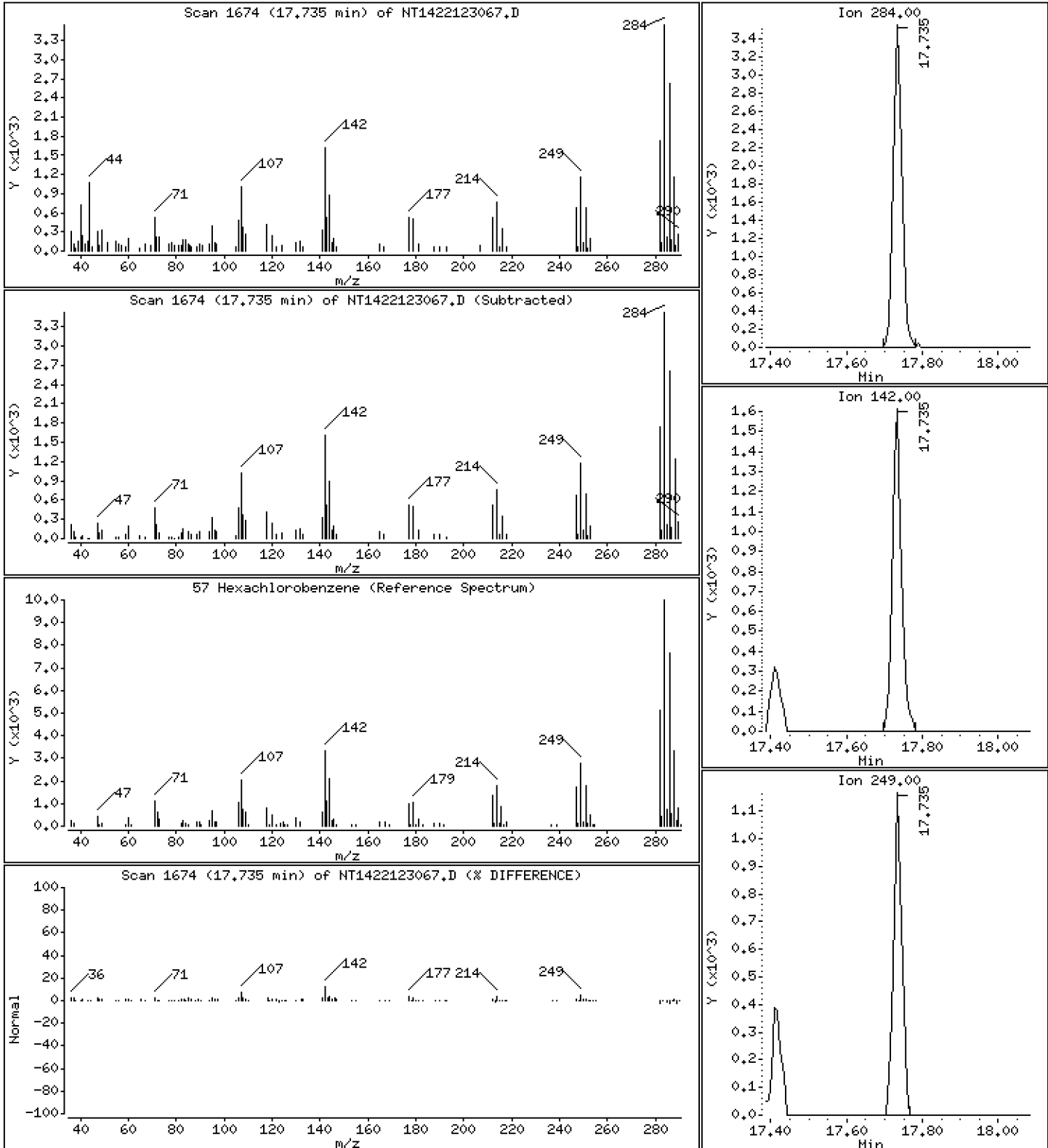
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.2368 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

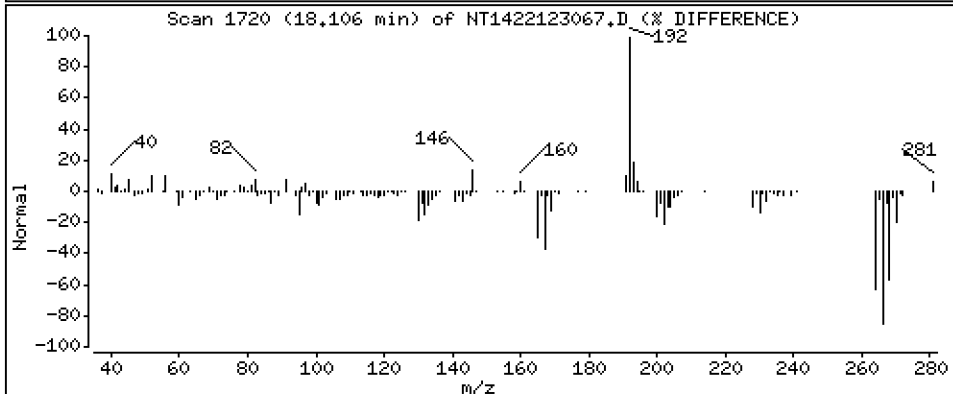
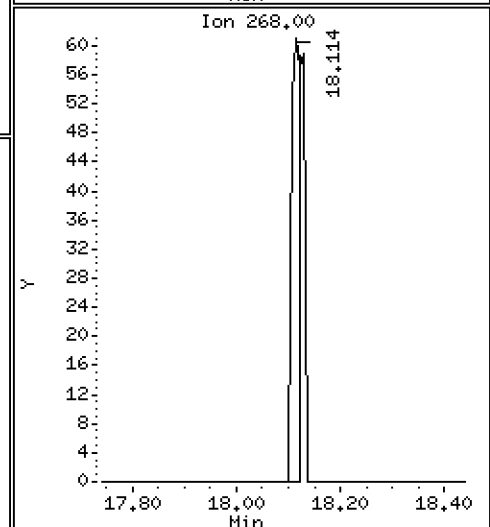
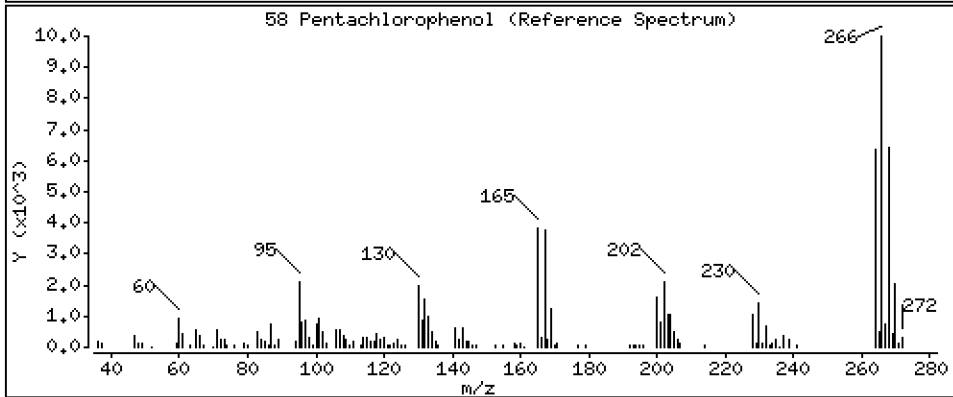
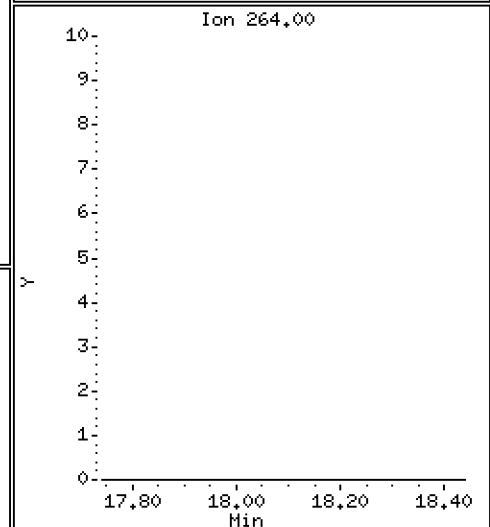
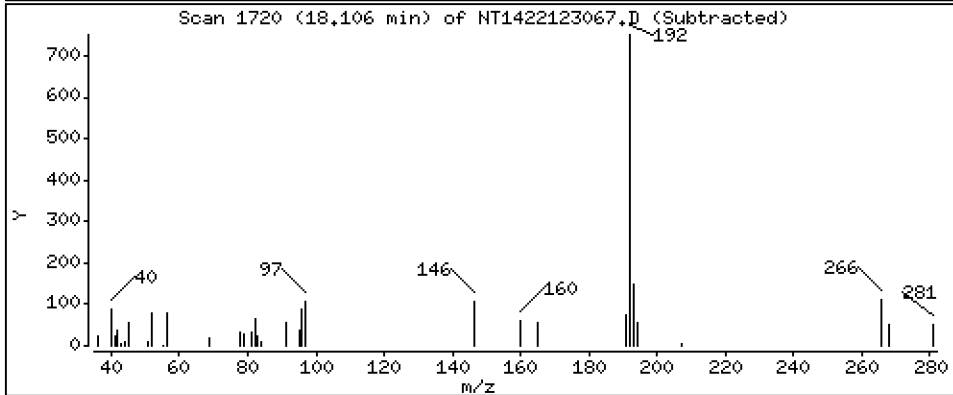
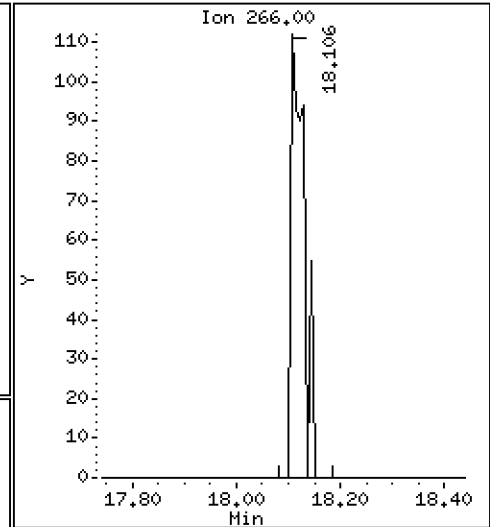
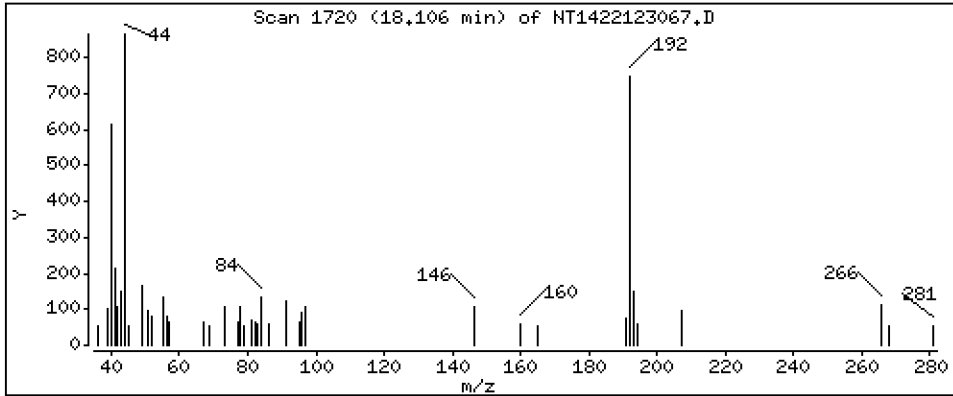
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,02024 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

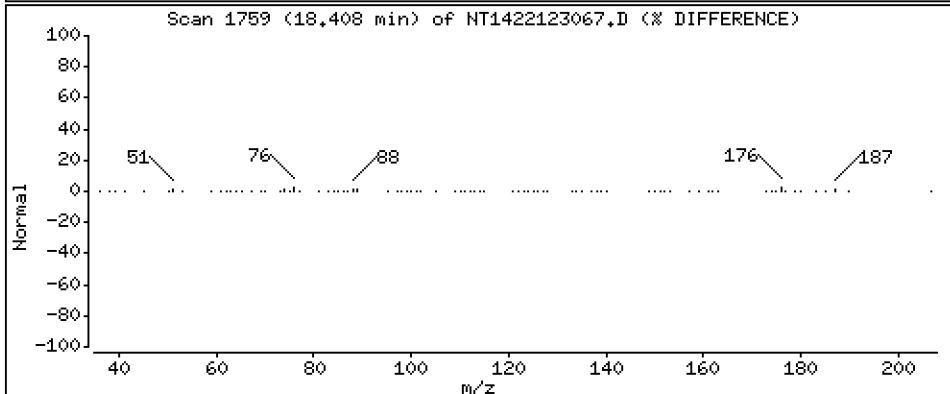
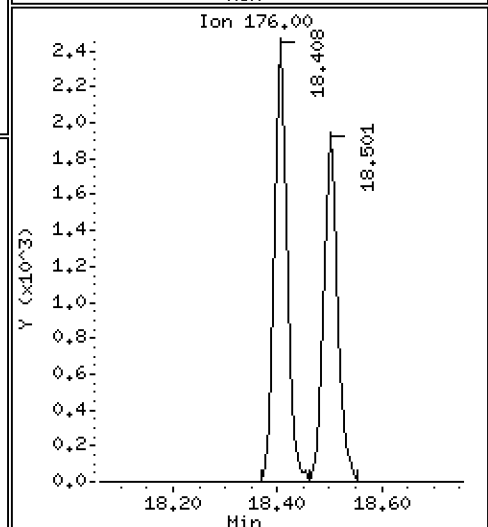
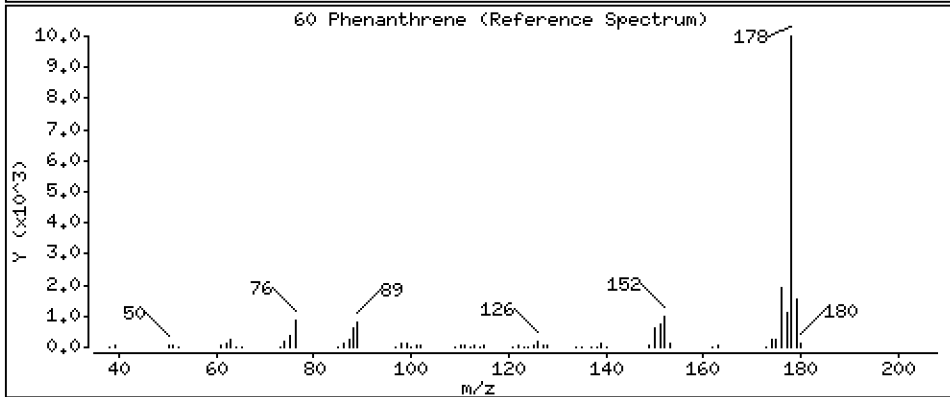
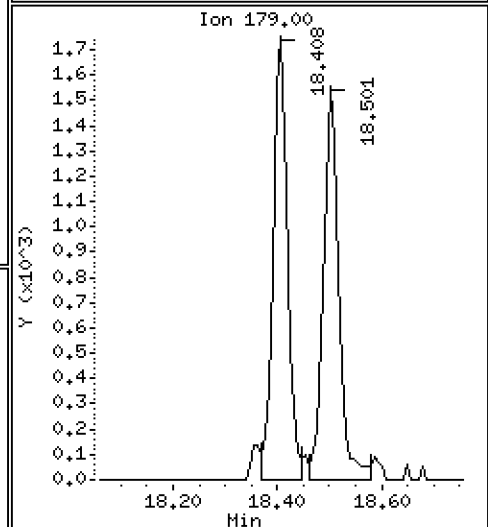
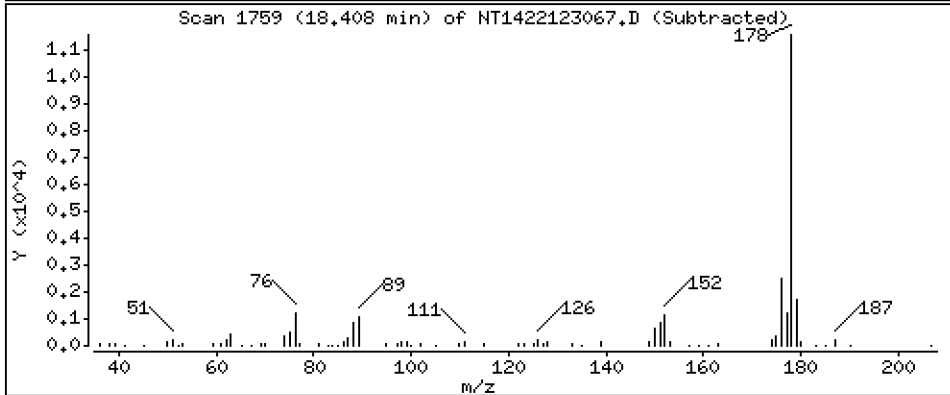
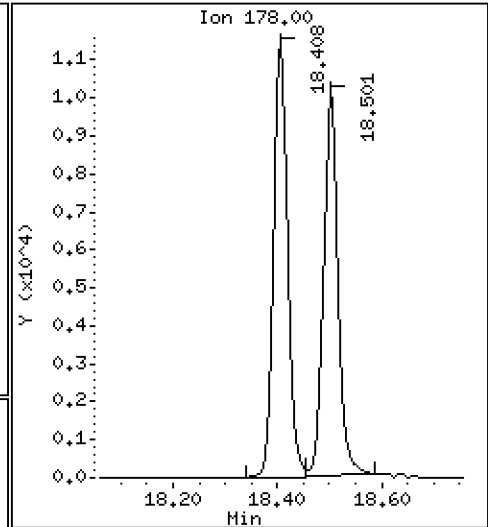
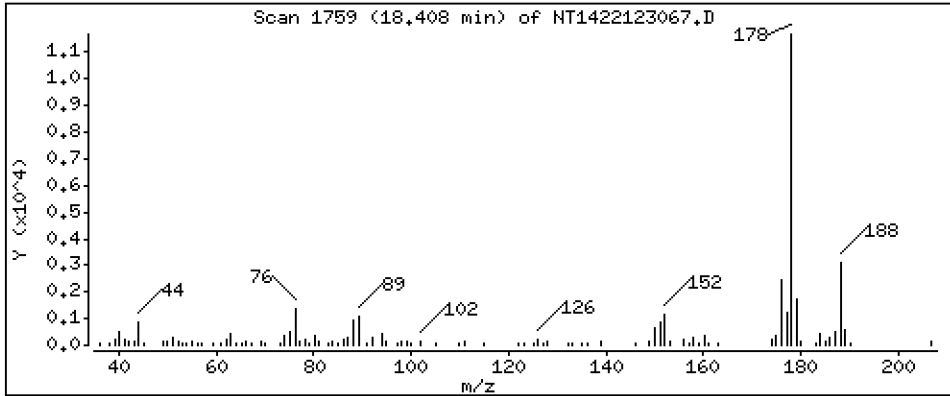
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,2396 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

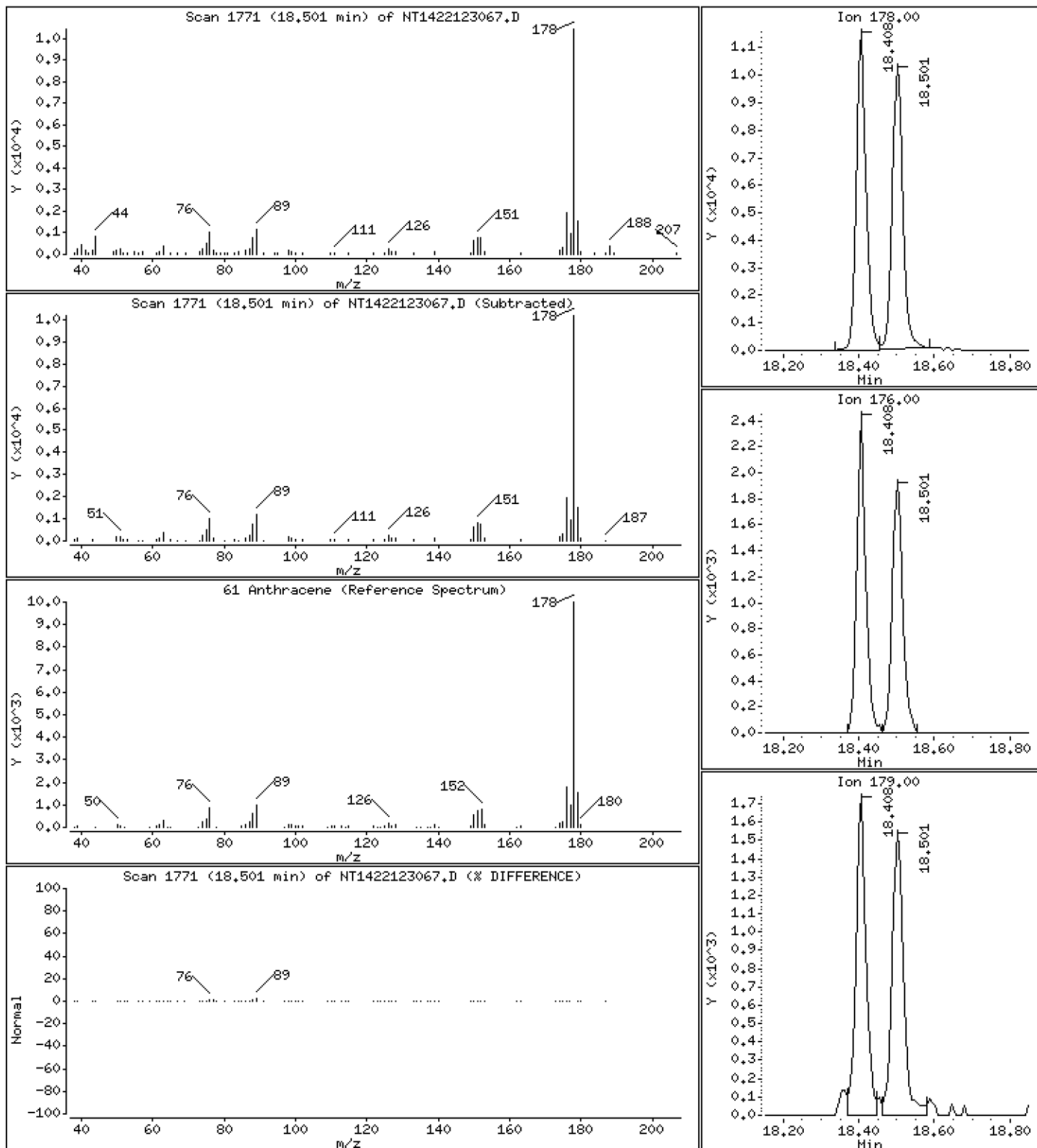
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,2322 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

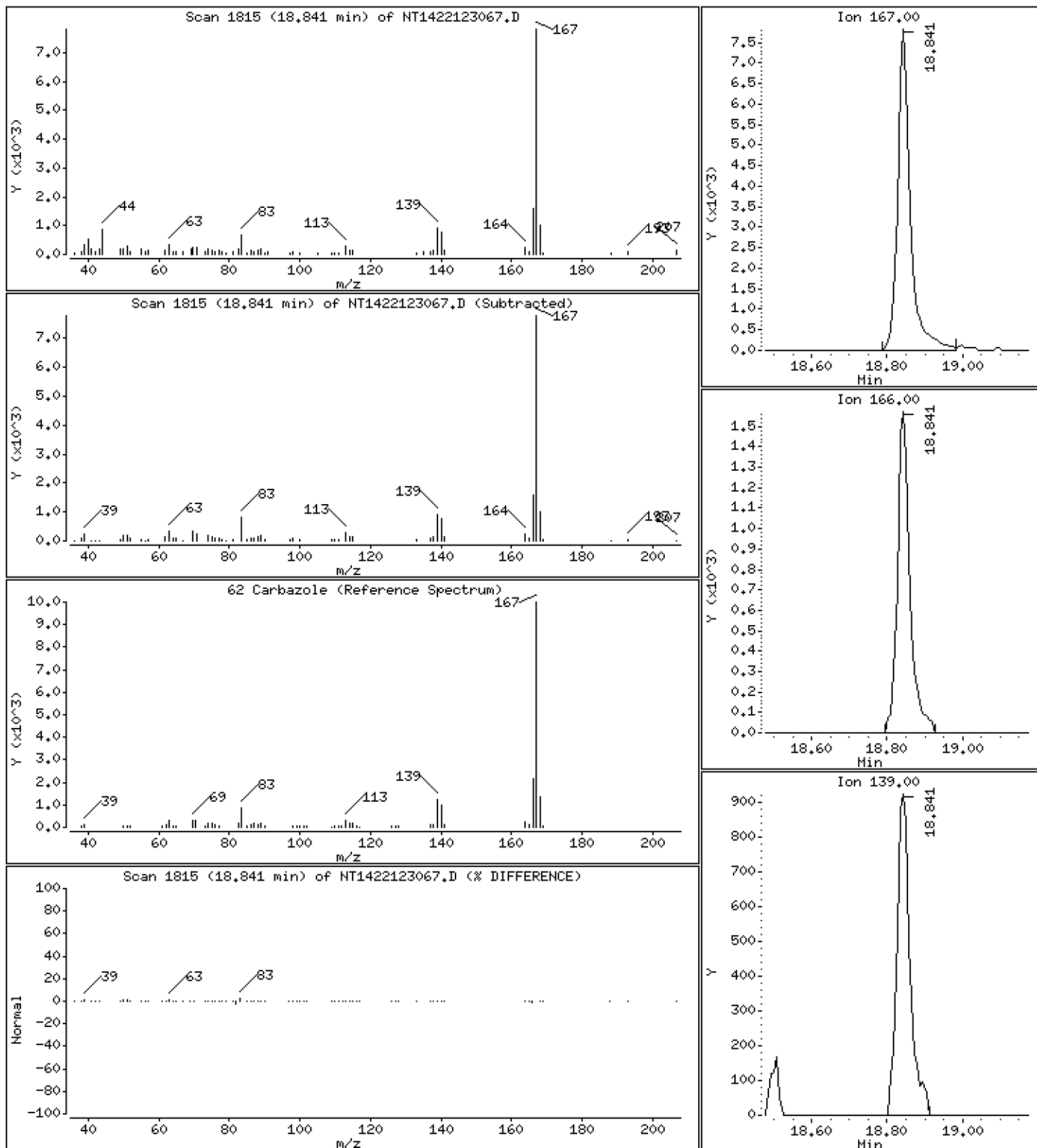
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,2308 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

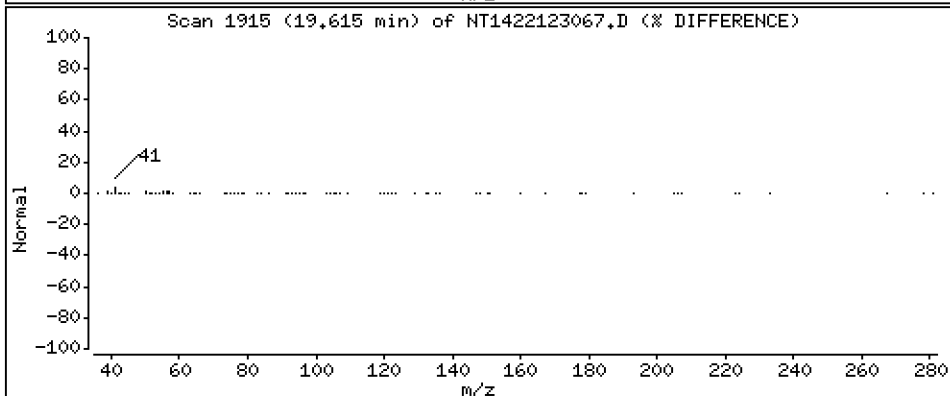
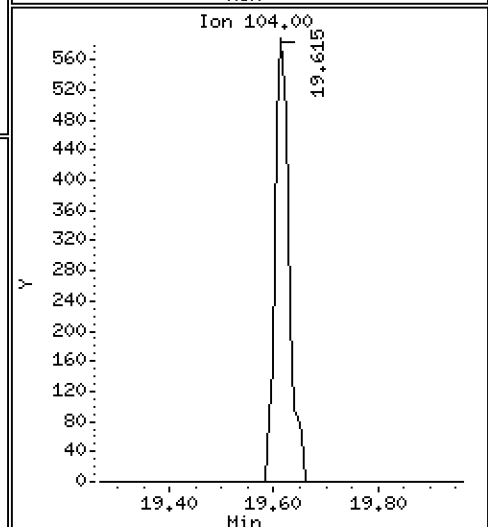
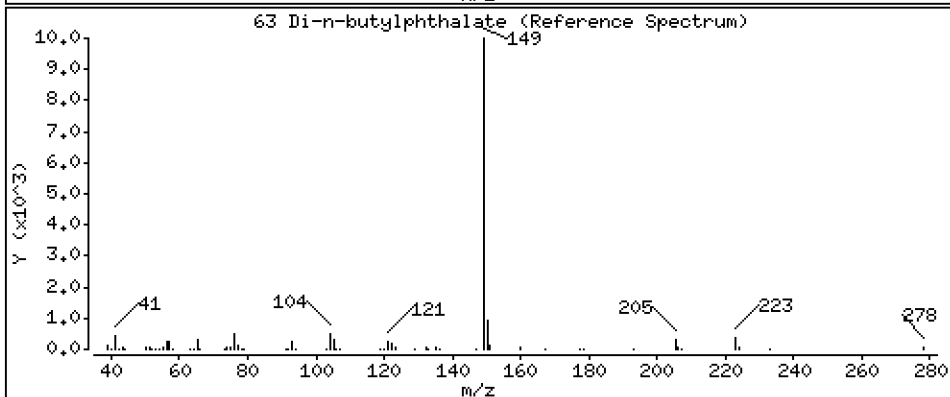
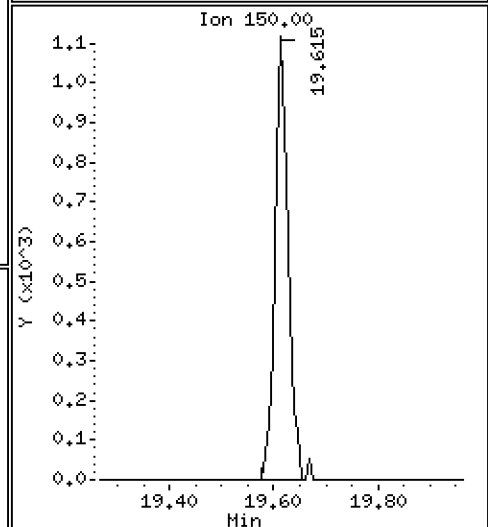
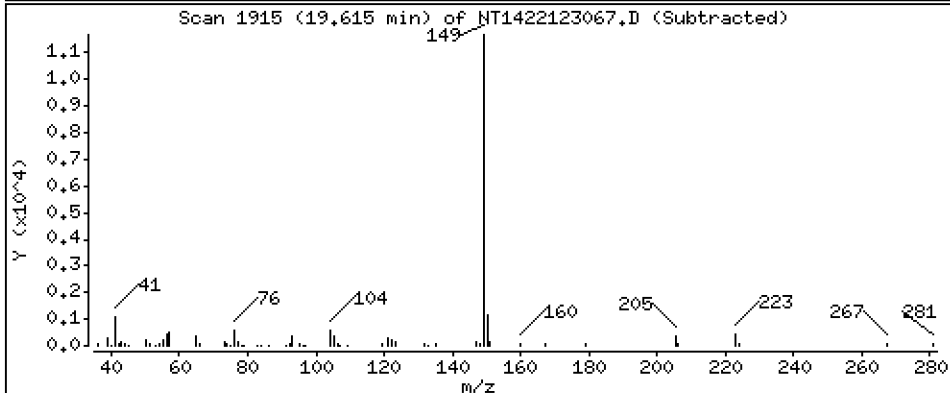
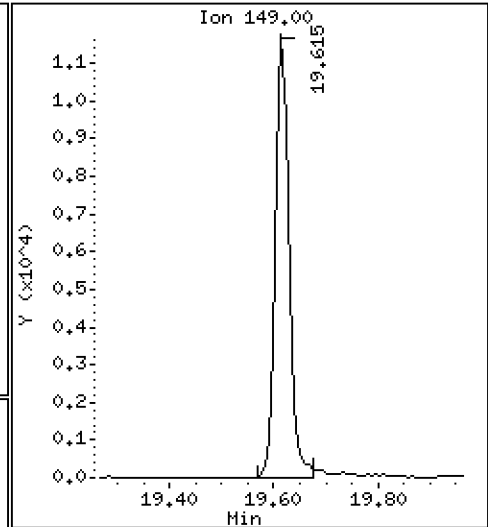
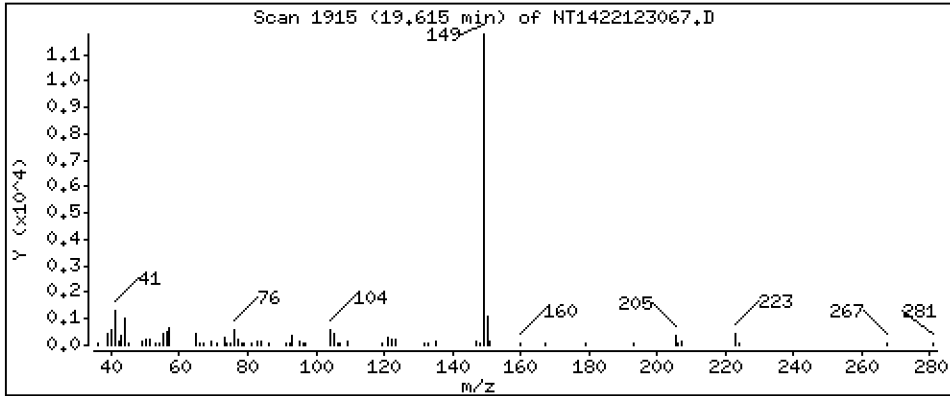
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

63 Di-n-butylphthalate

Concentration: 0.2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

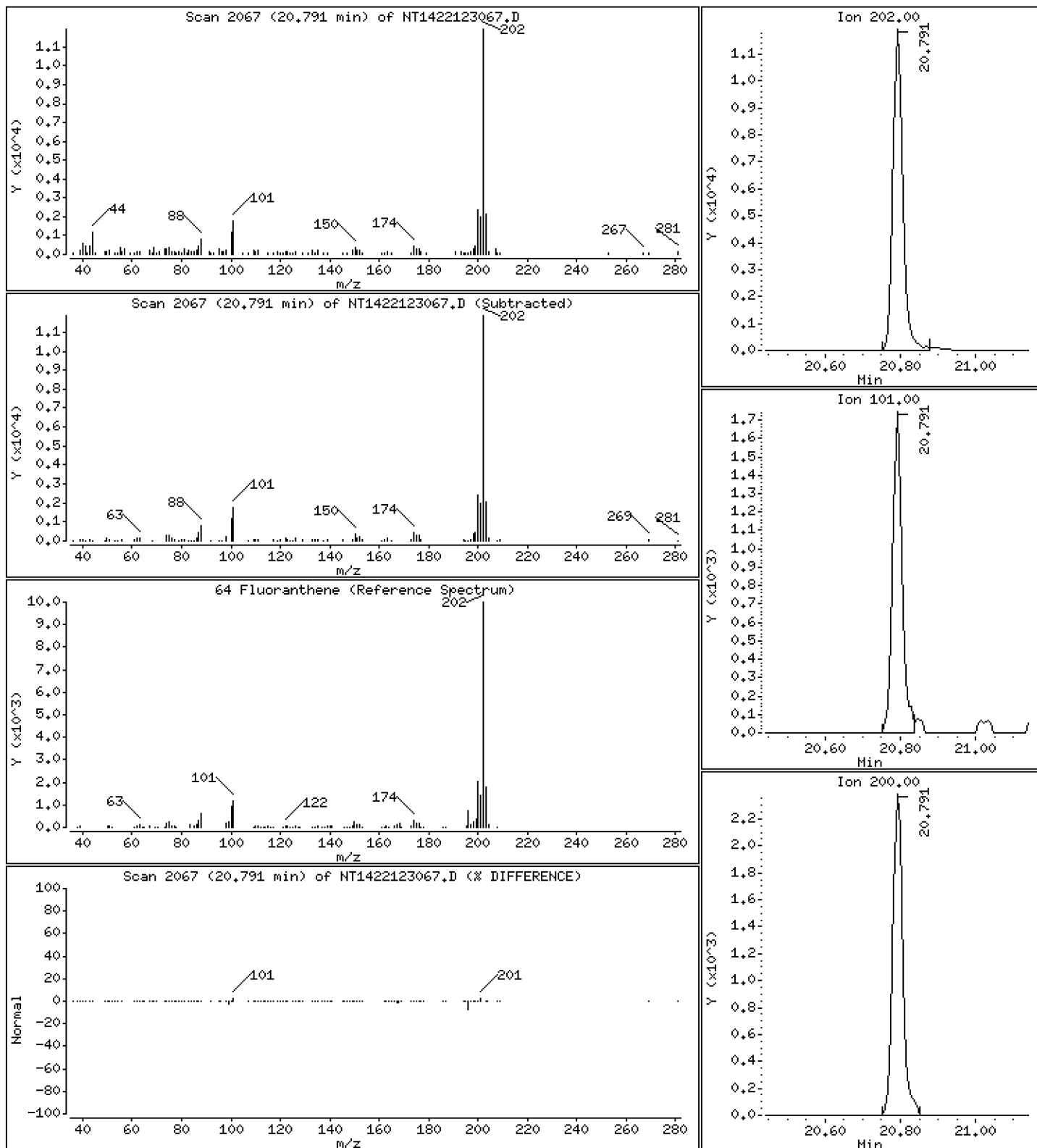
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,2381 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

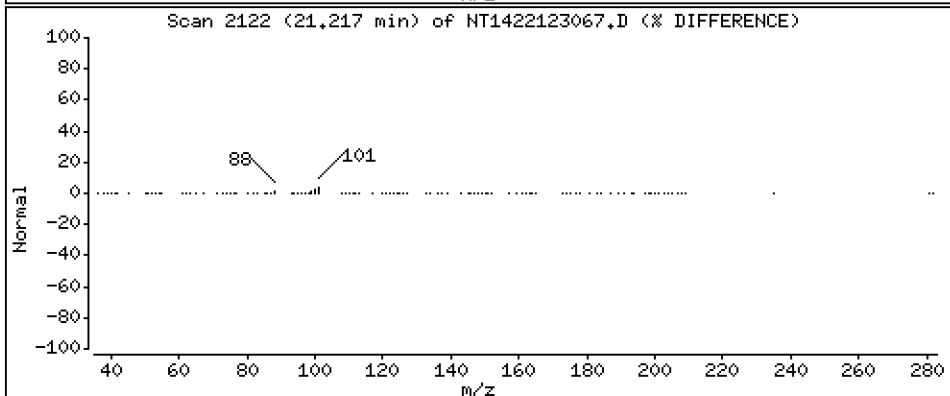
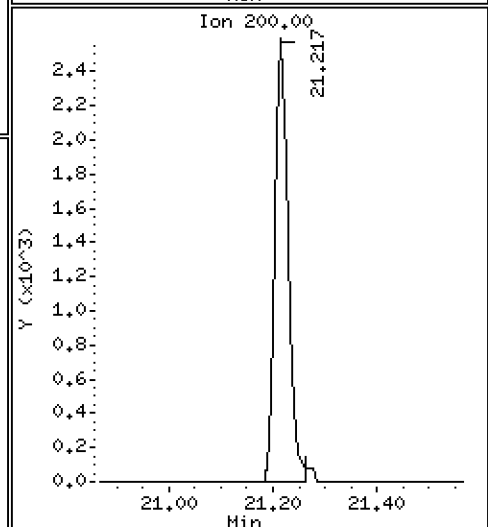
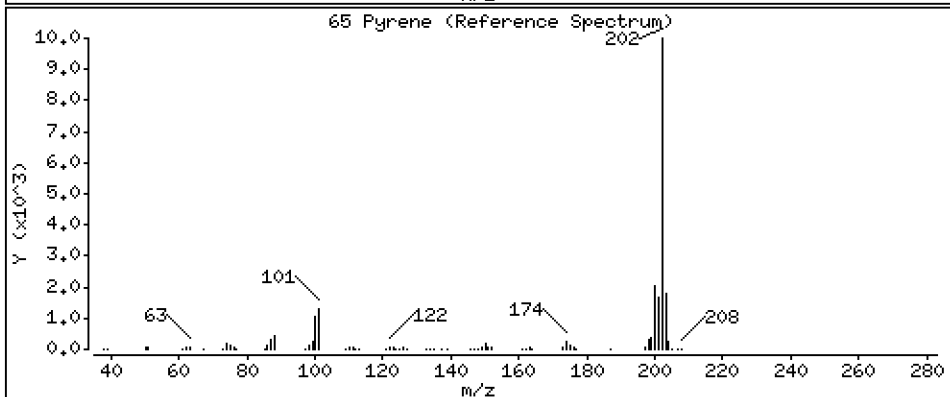
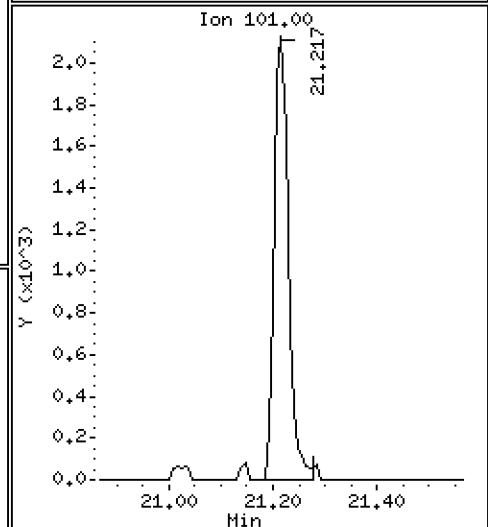
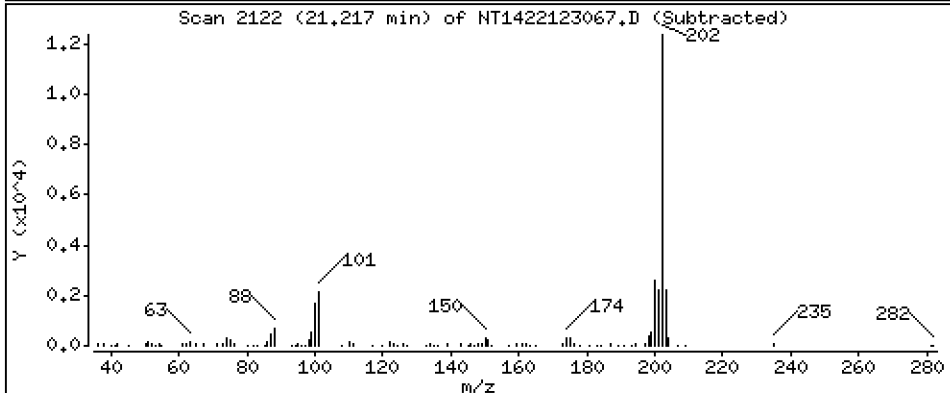
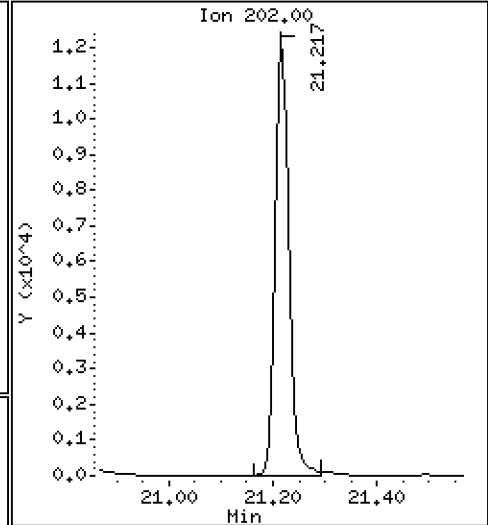
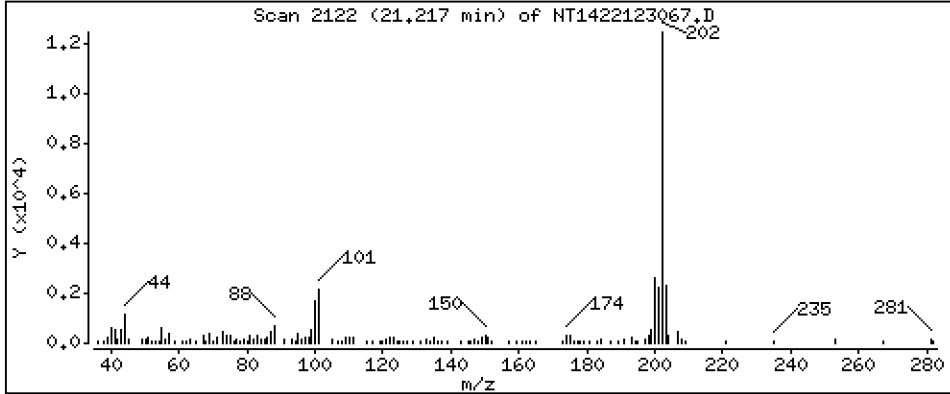
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,2334 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

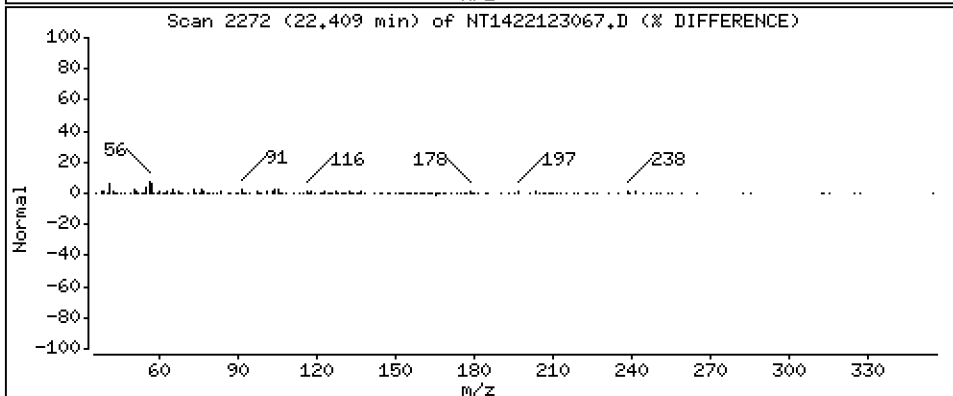
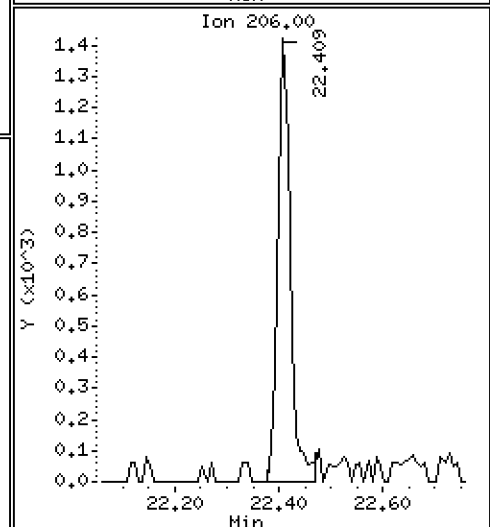
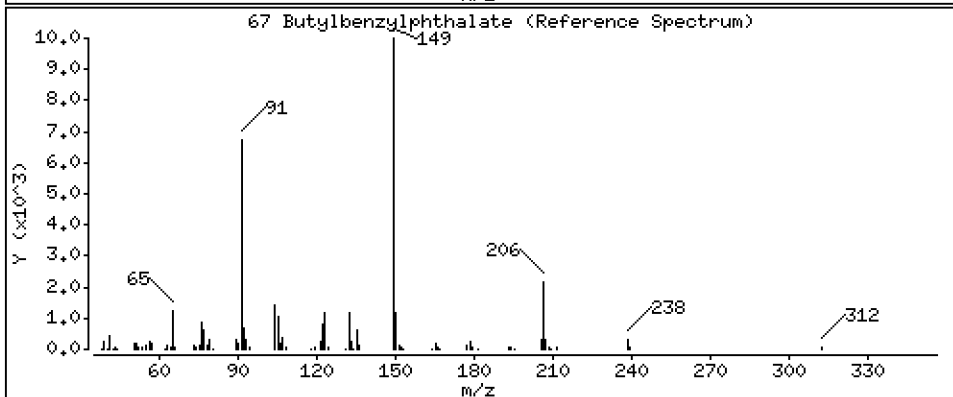
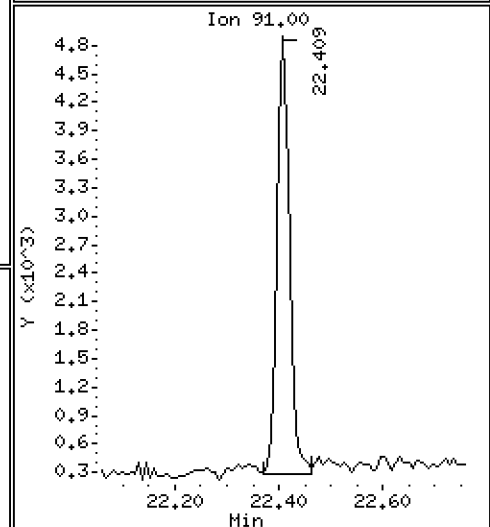
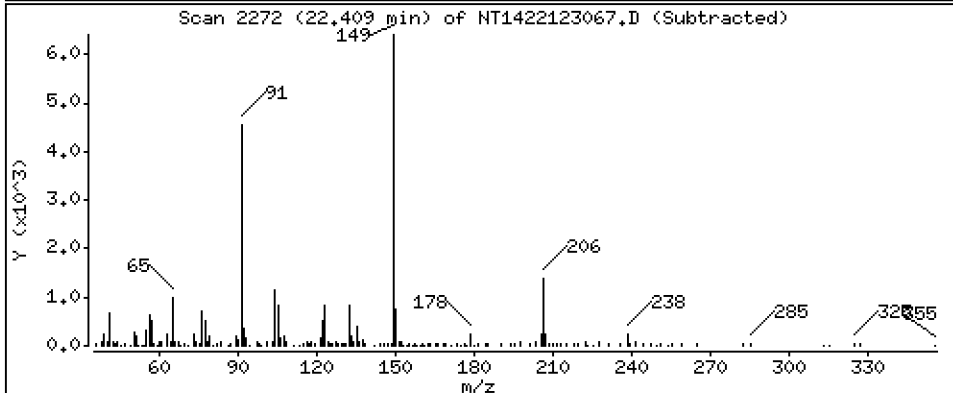
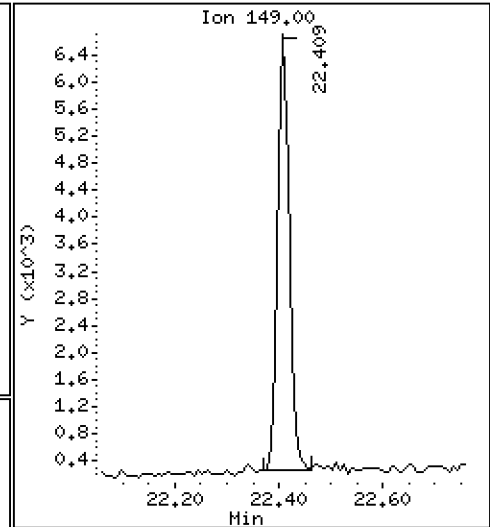
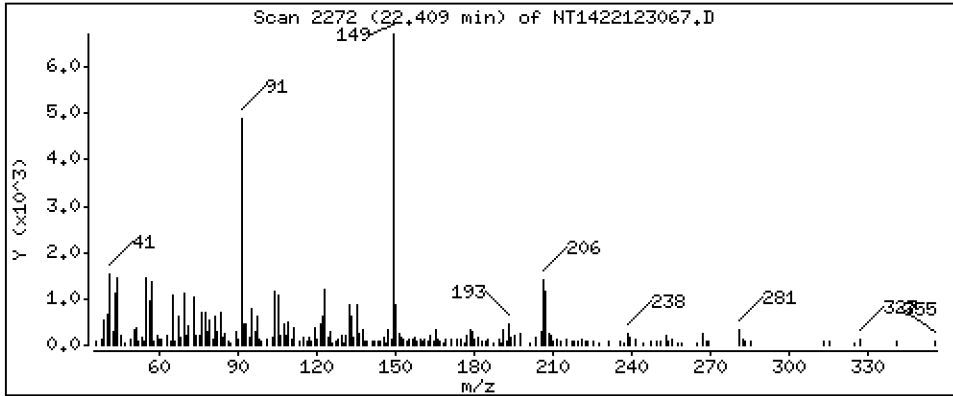
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,2699 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

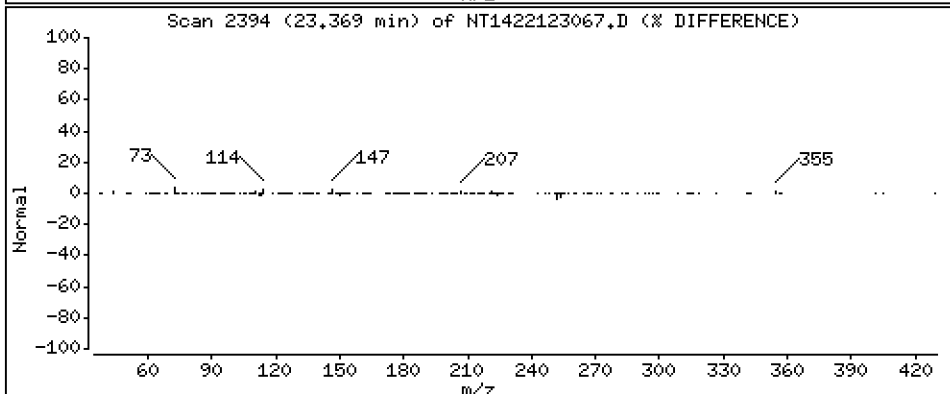
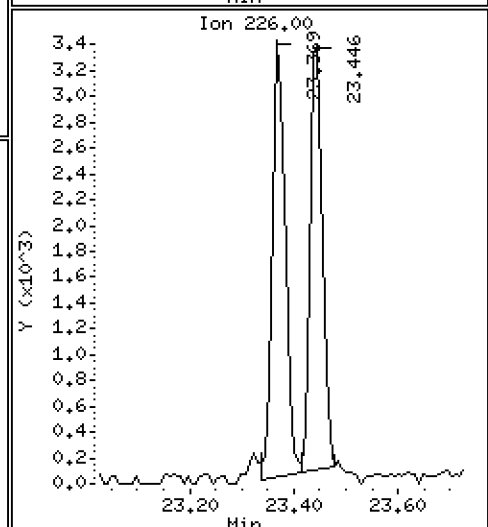
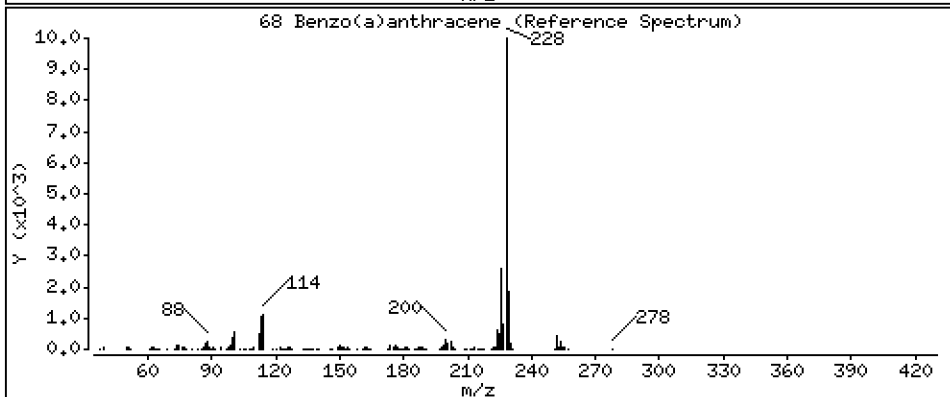
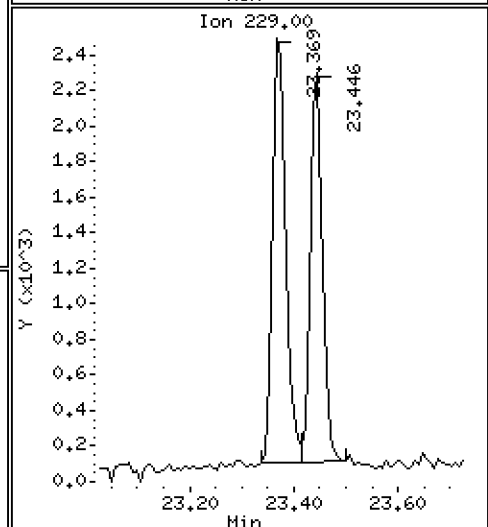
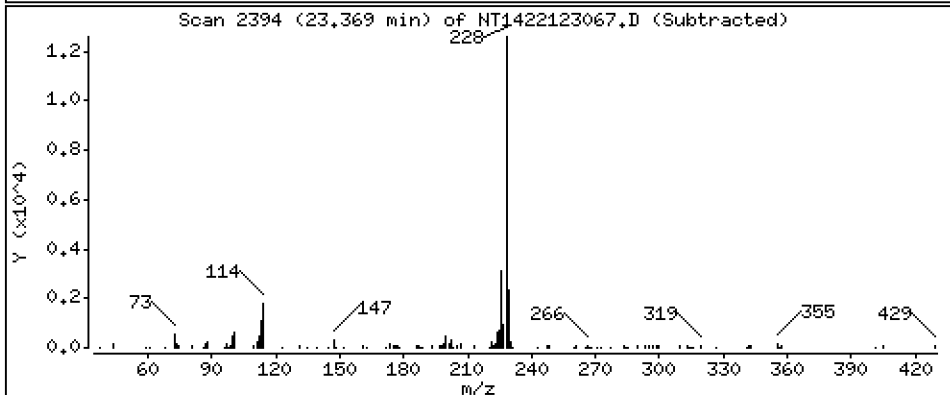
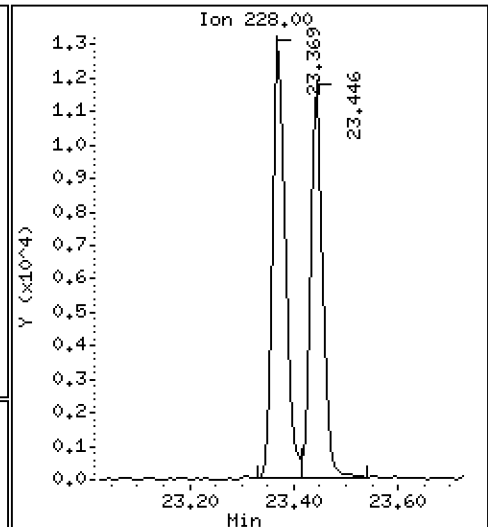
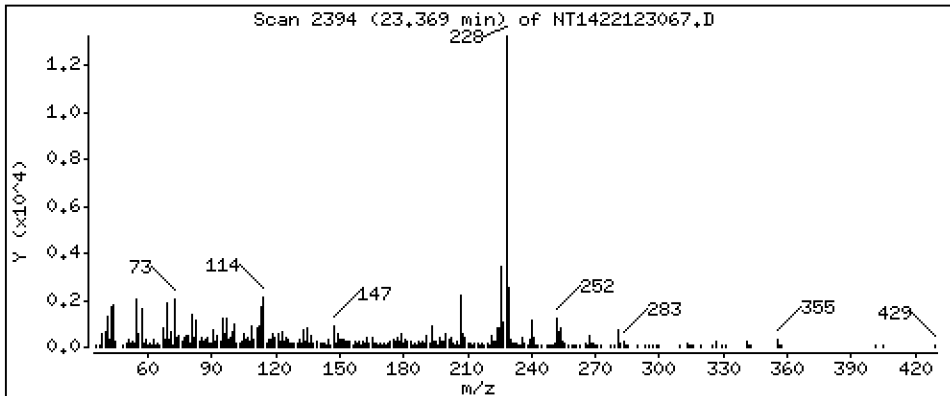
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,2639 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

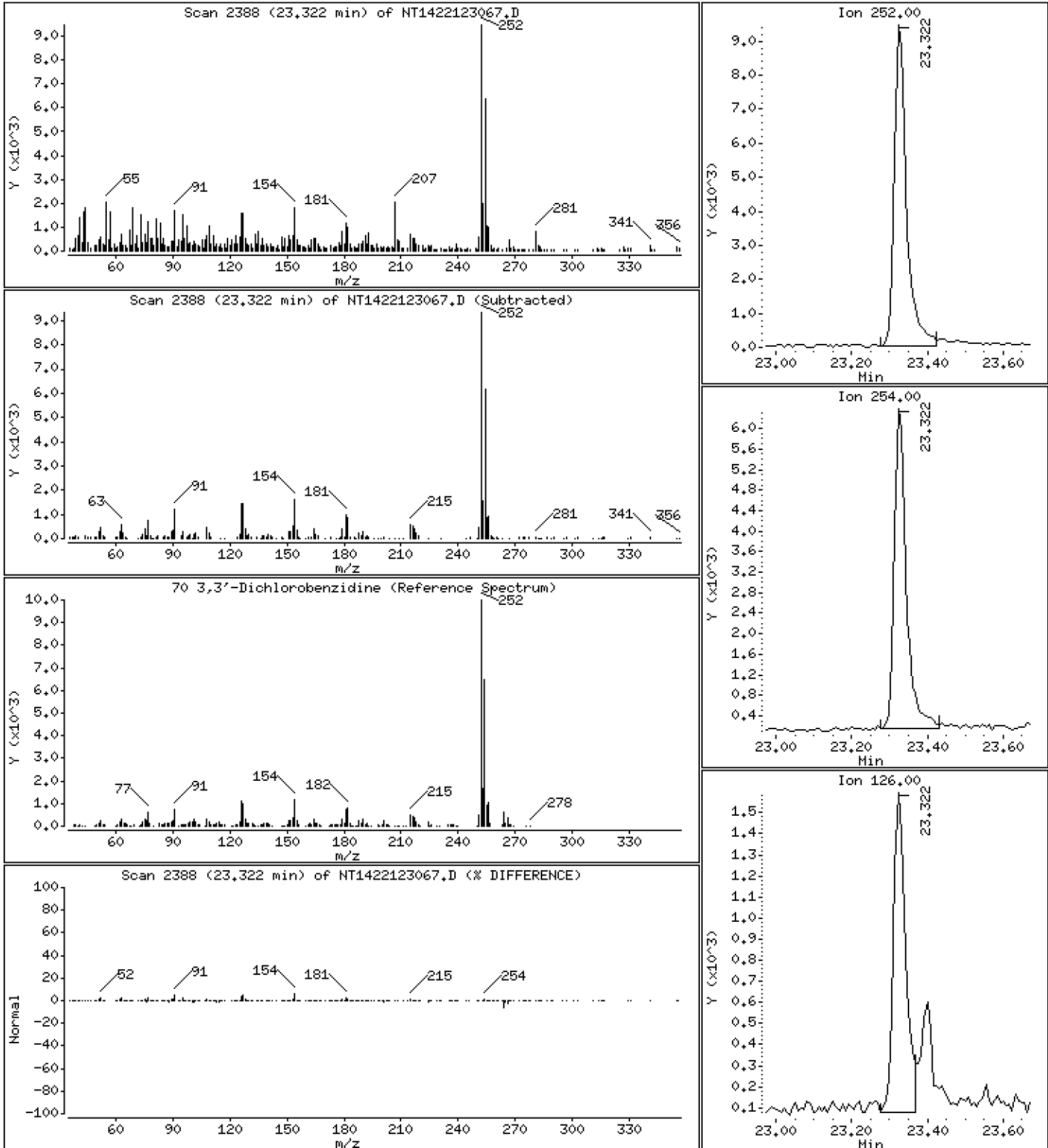
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 0,8193 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

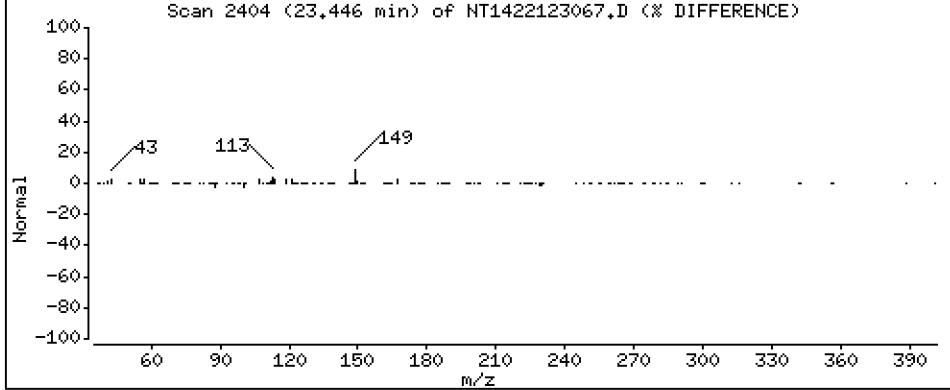
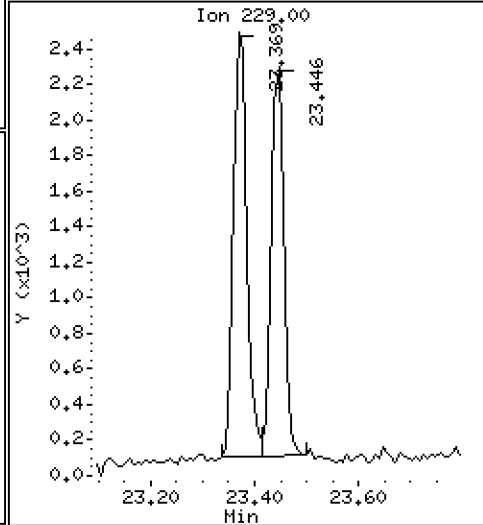
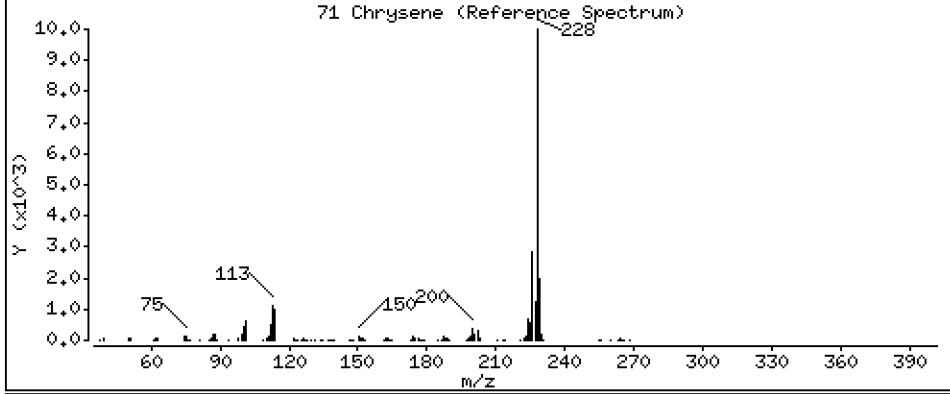
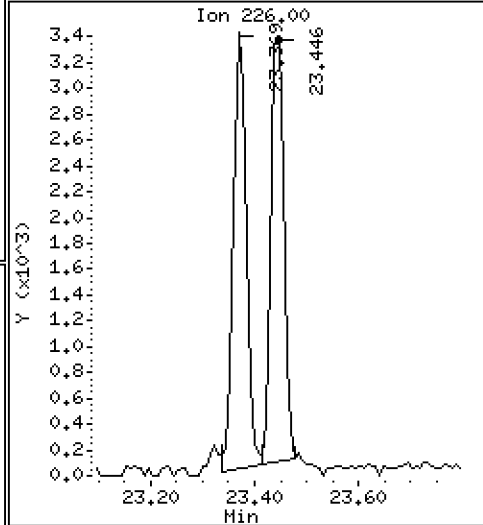
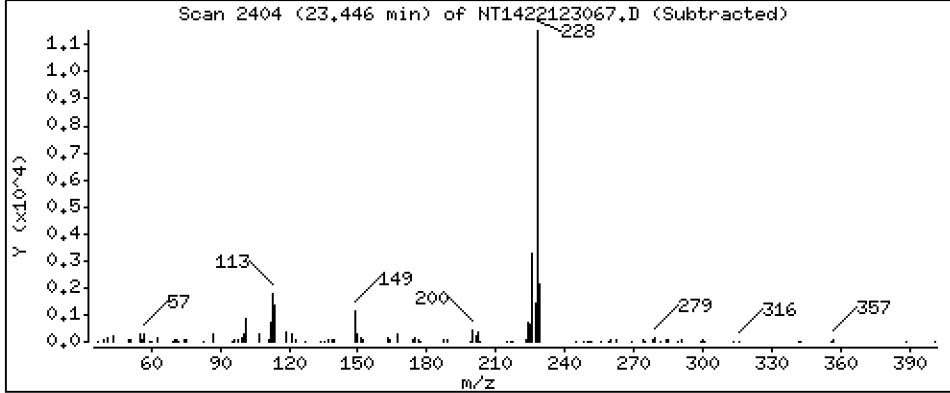
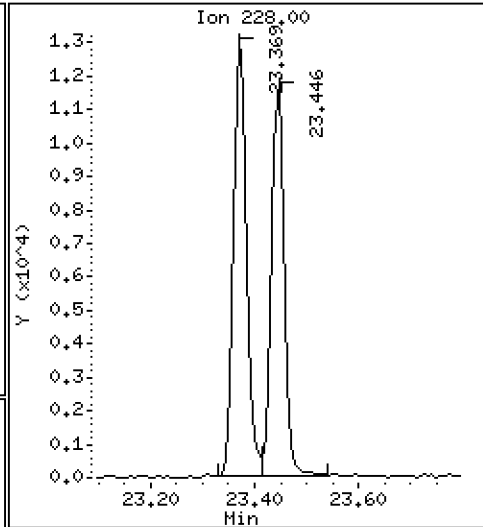
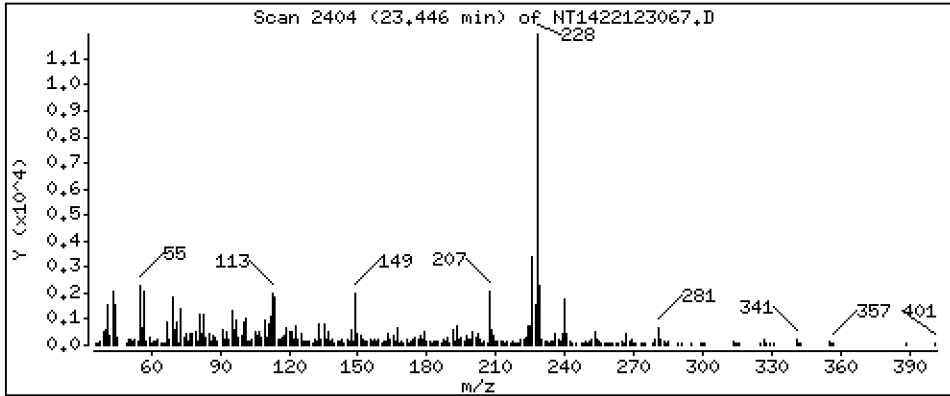
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,2429 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

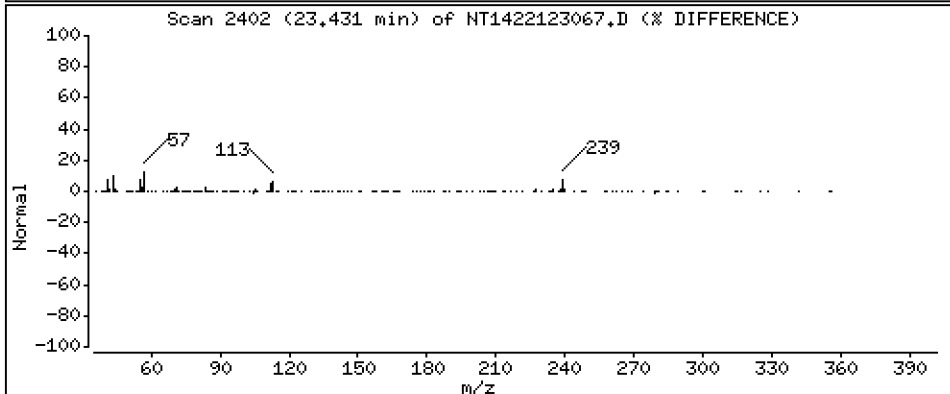
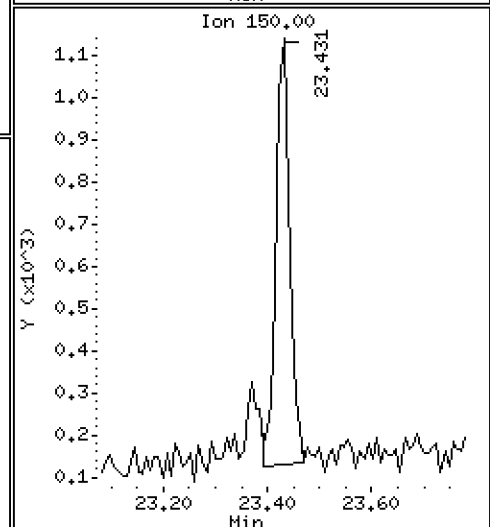
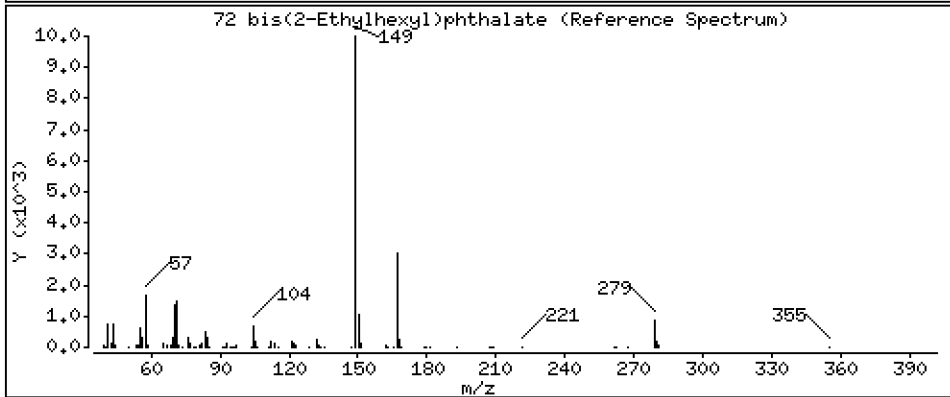
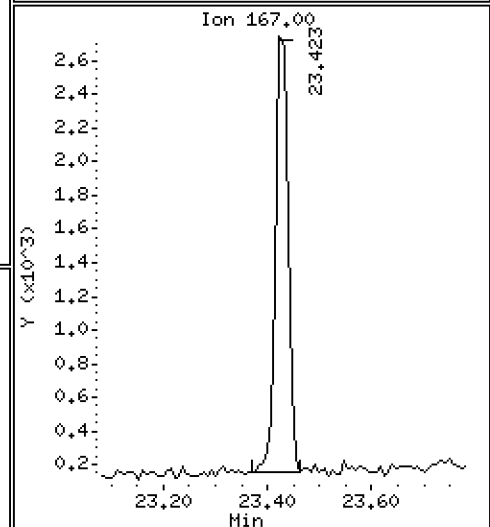
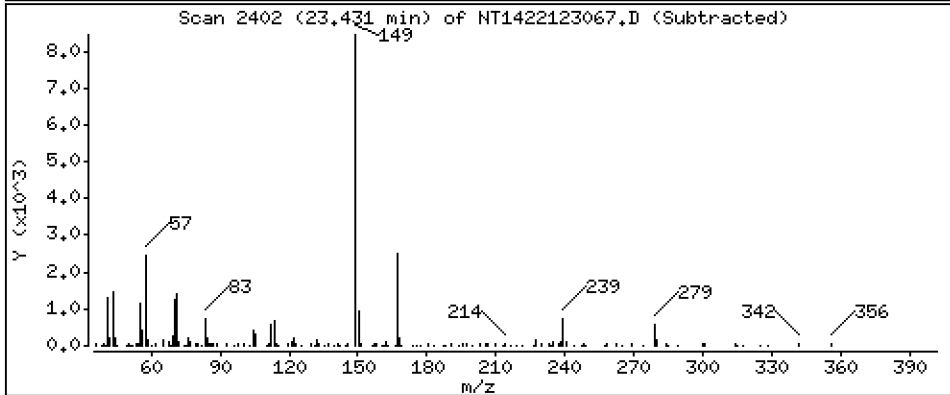
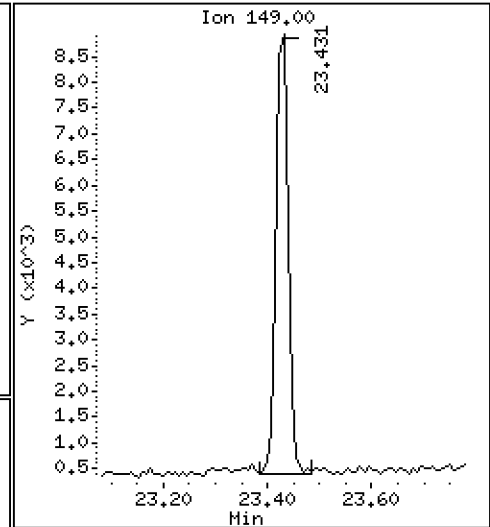
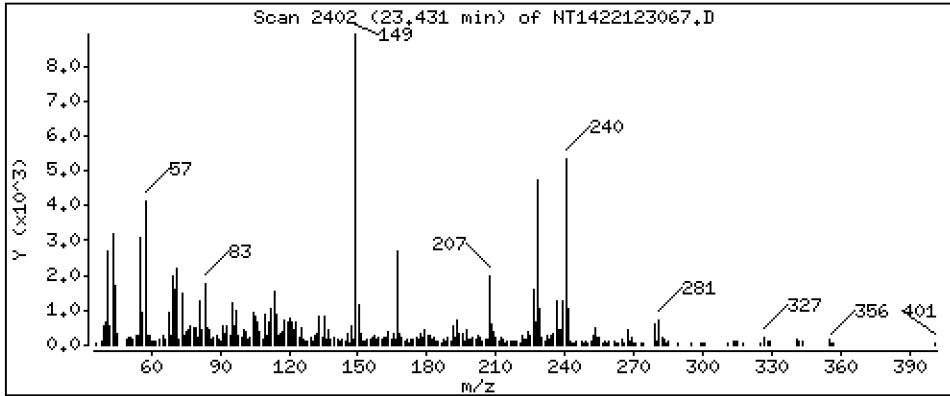
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,2611 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

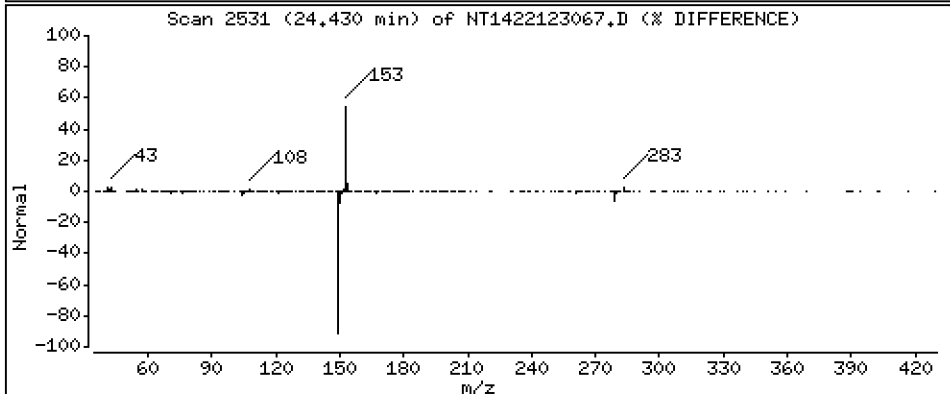
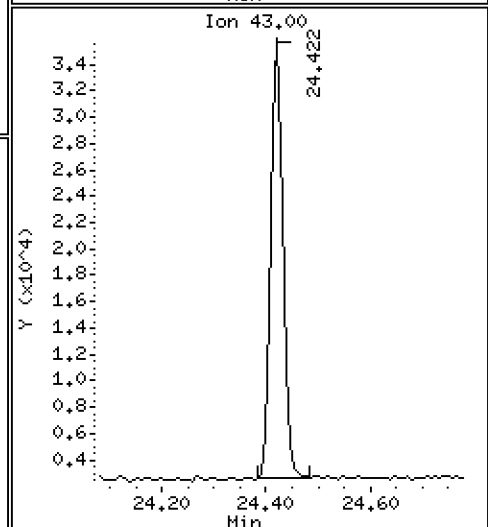
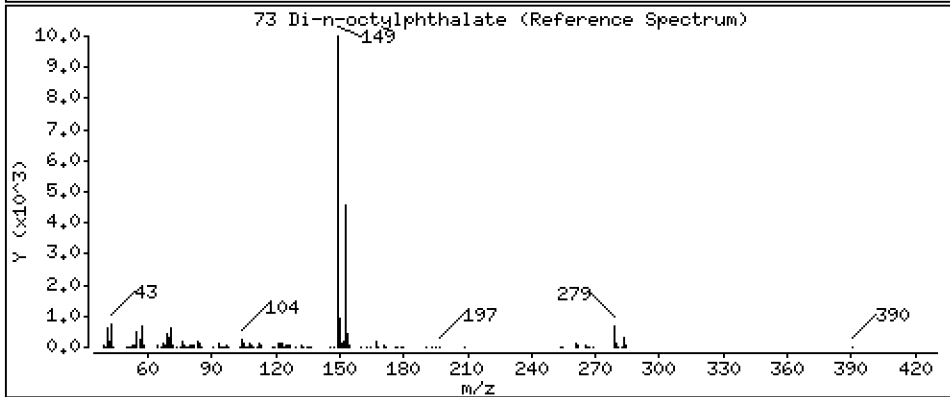
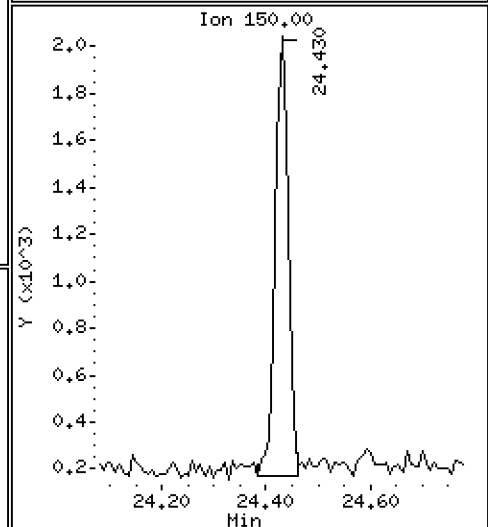
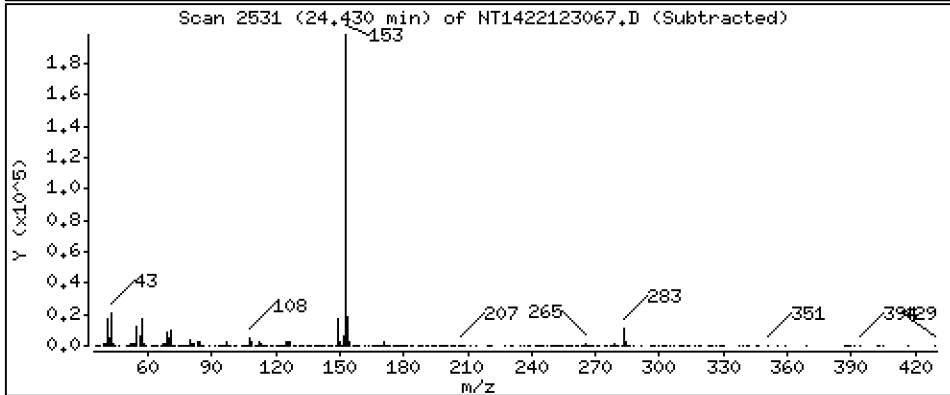
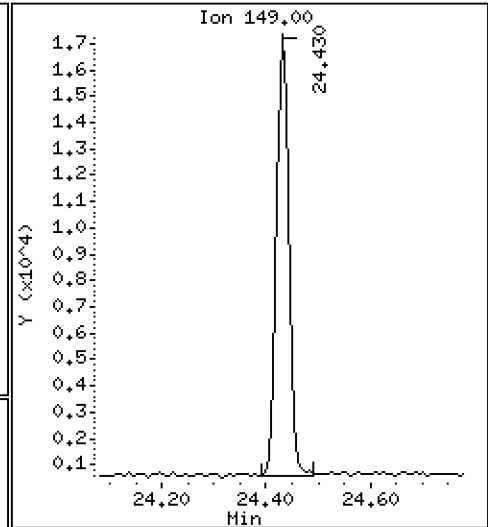
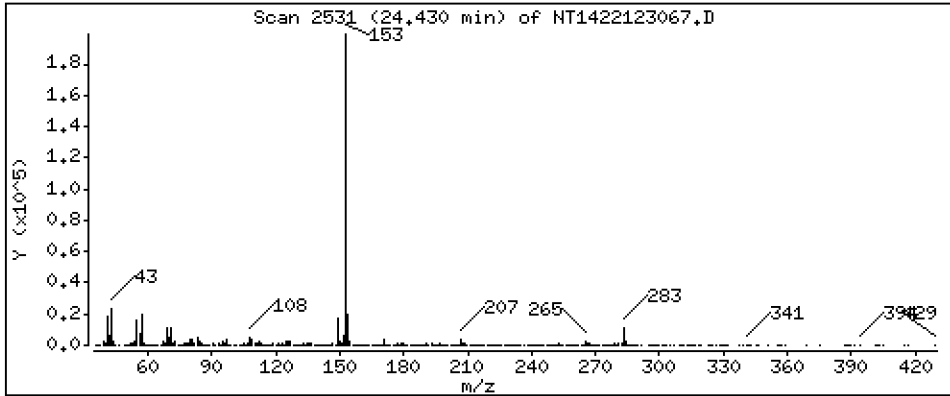
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,2459 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

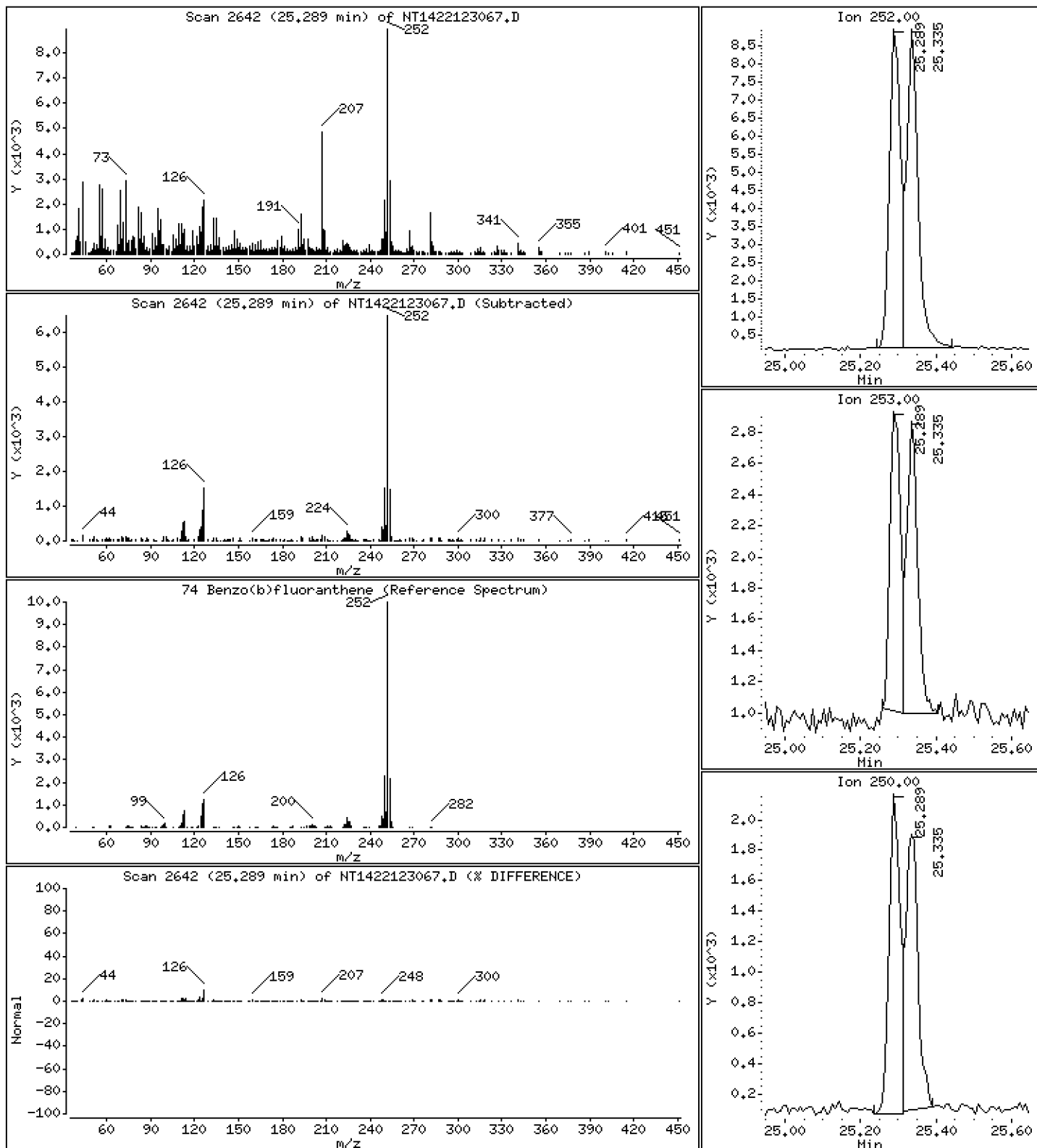
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,2414 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

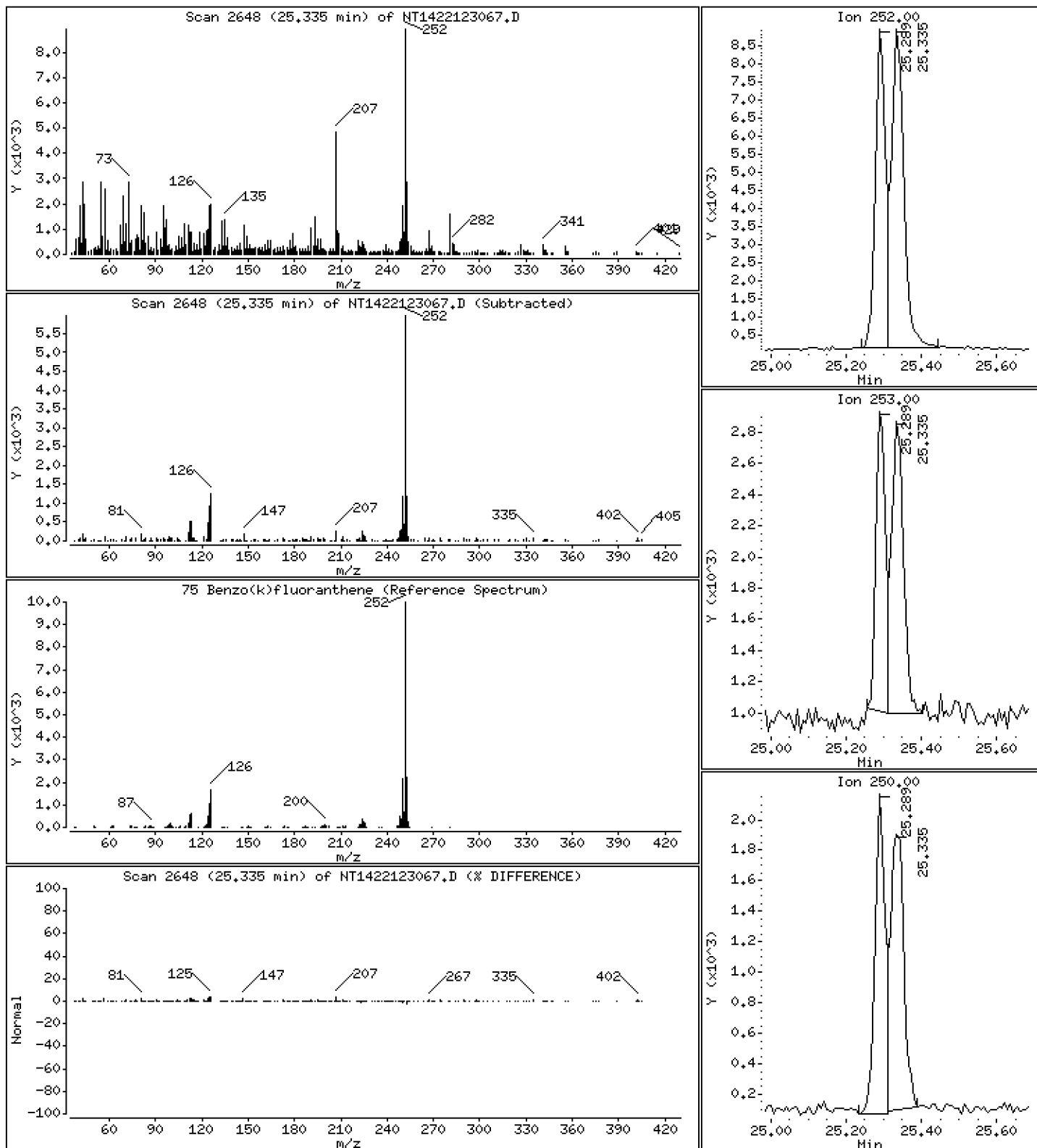
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,2810 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

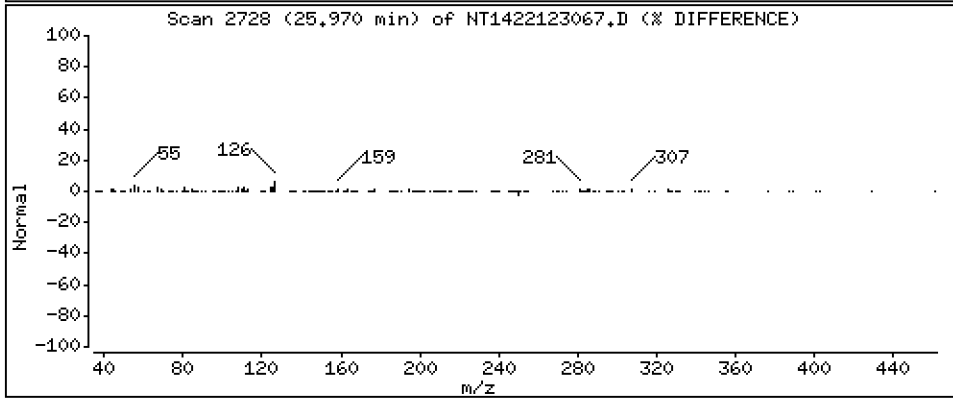
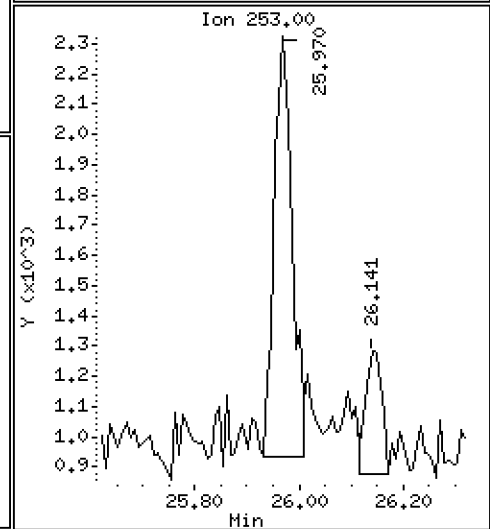
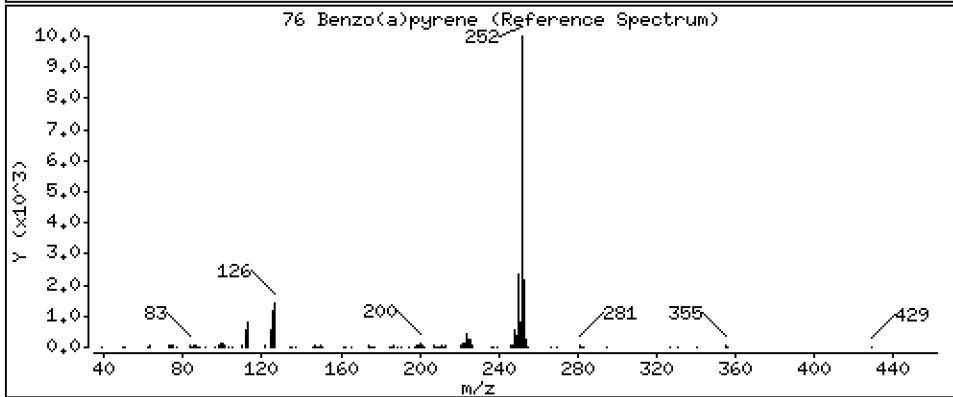
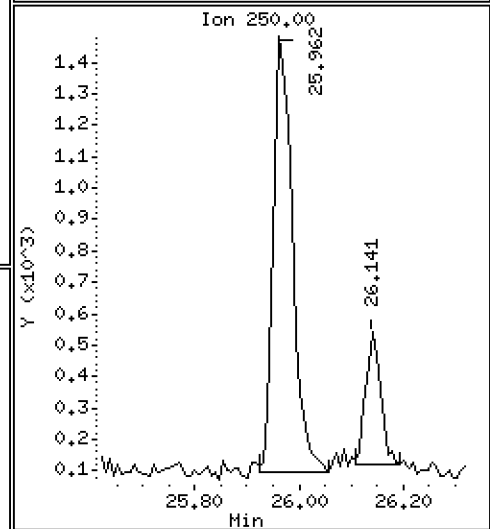
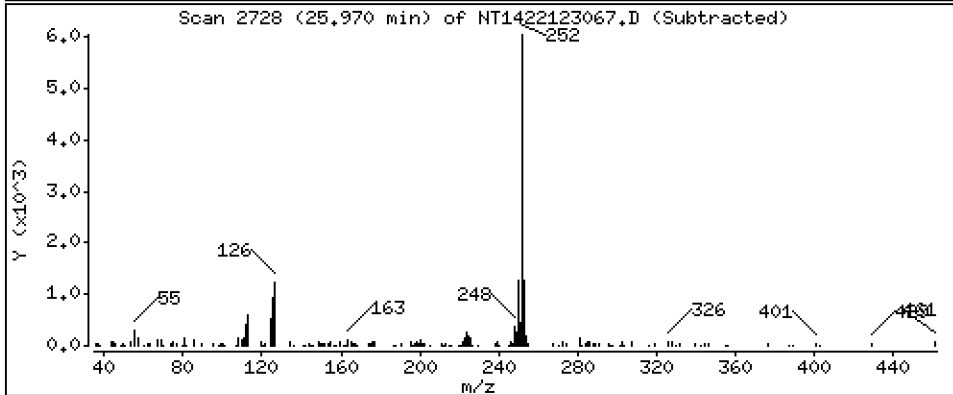
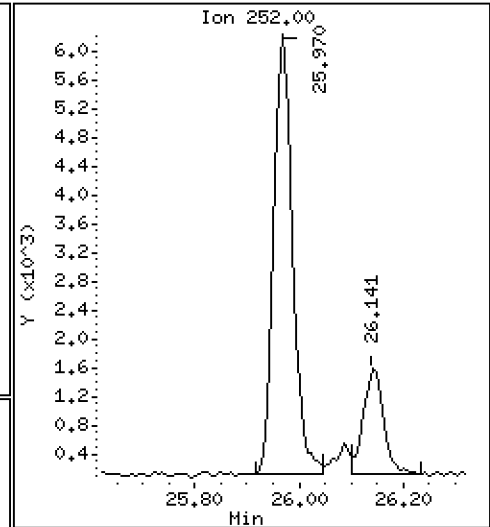
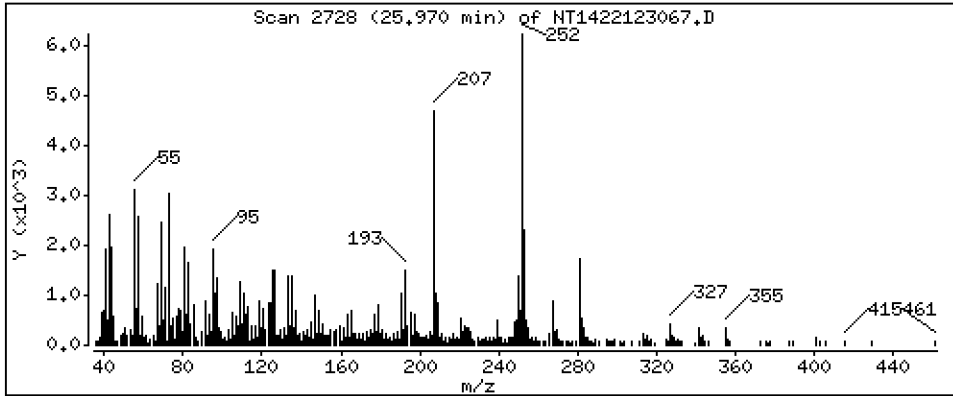
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,2524 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

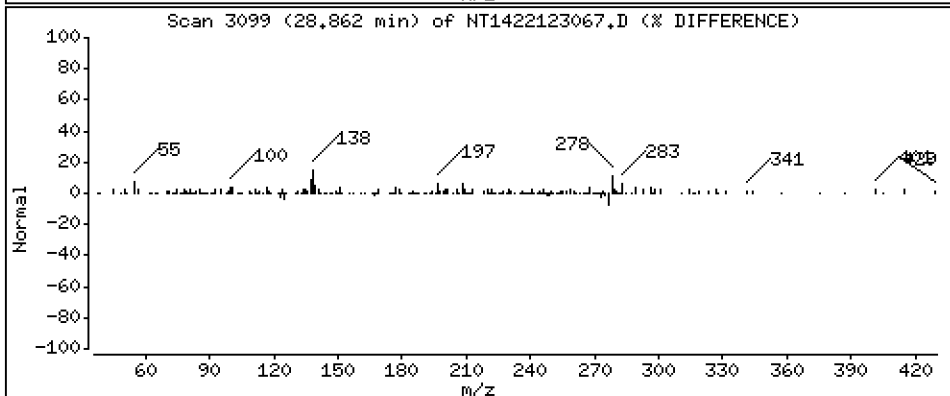
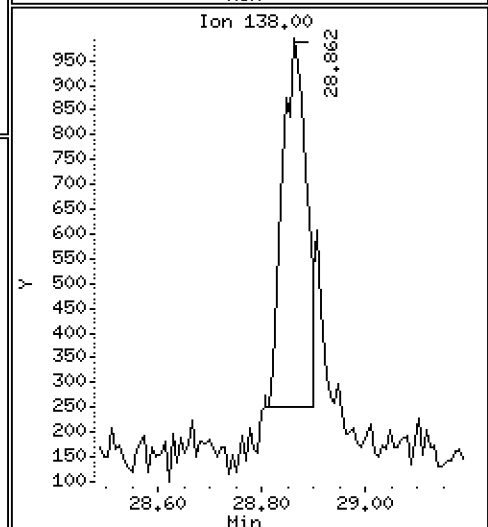
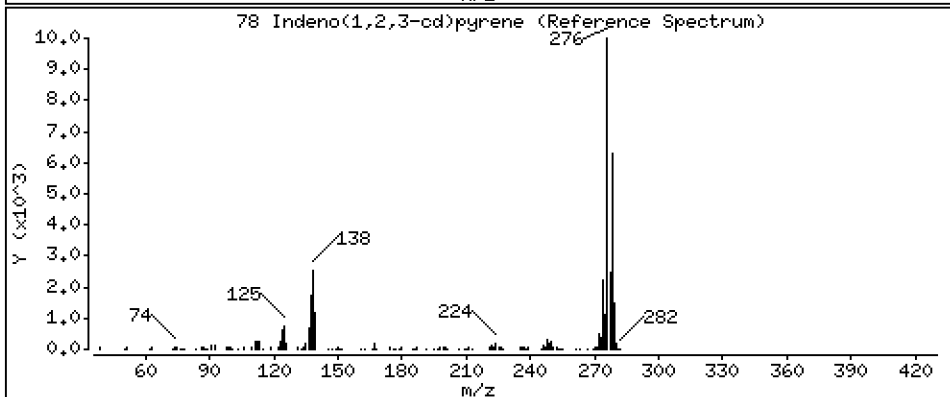
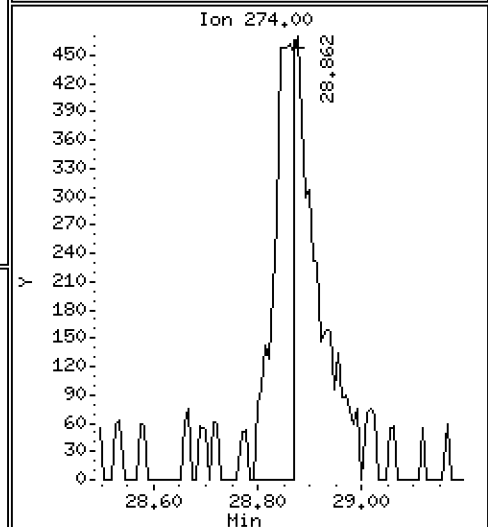
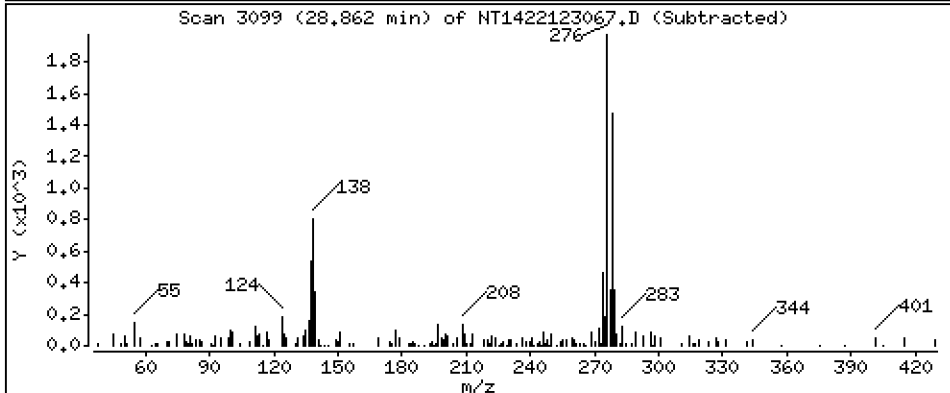
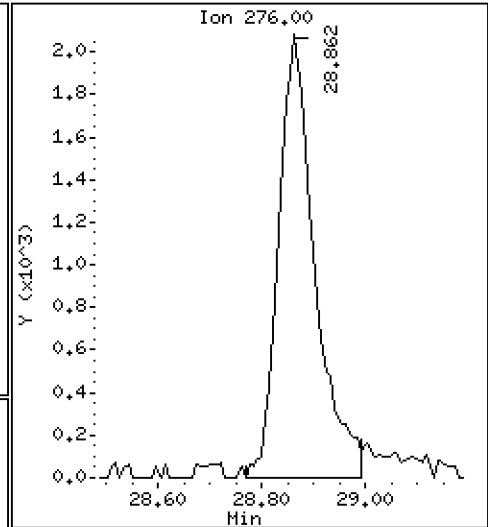
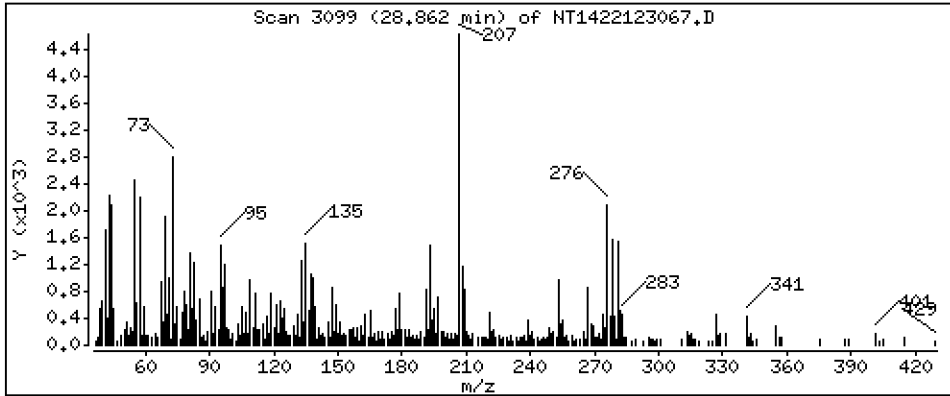
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,1494 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

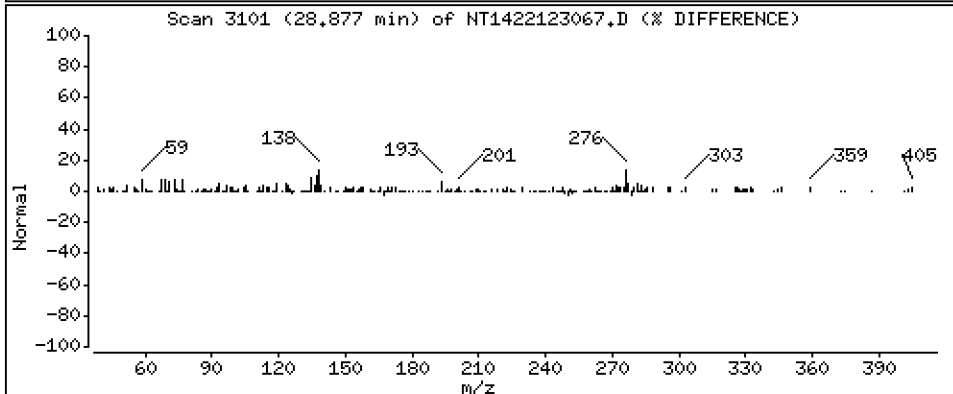
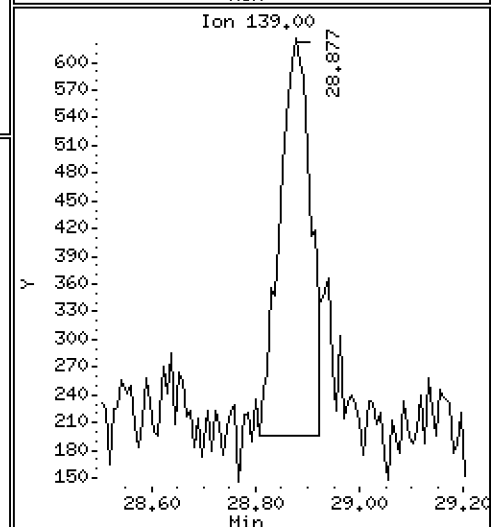
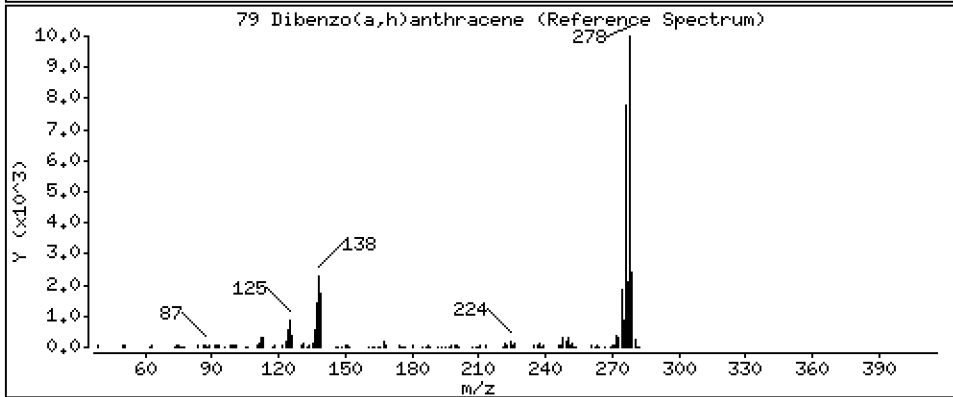
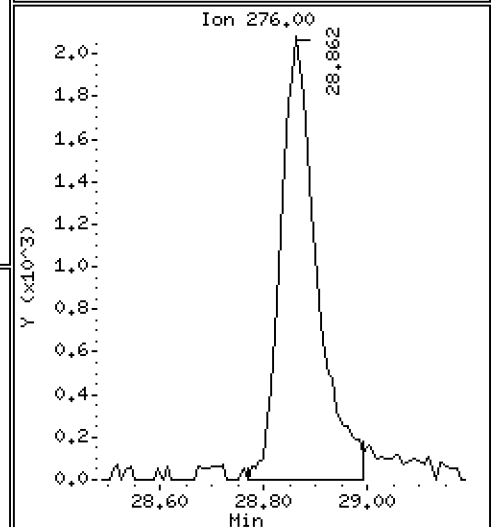
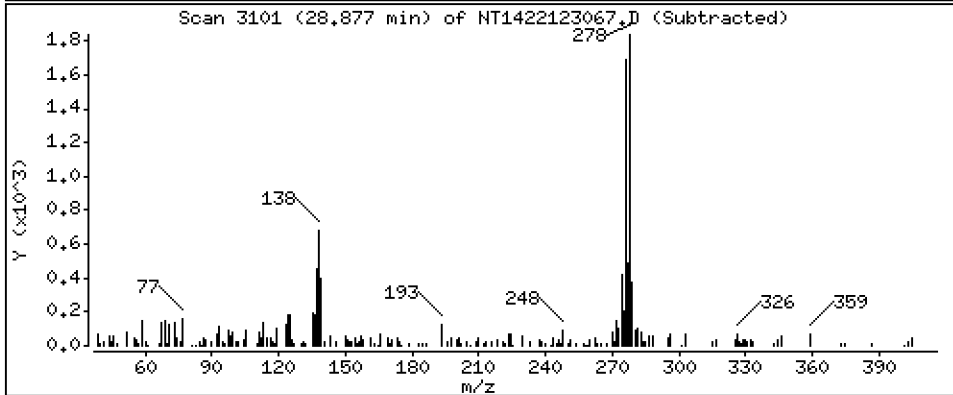
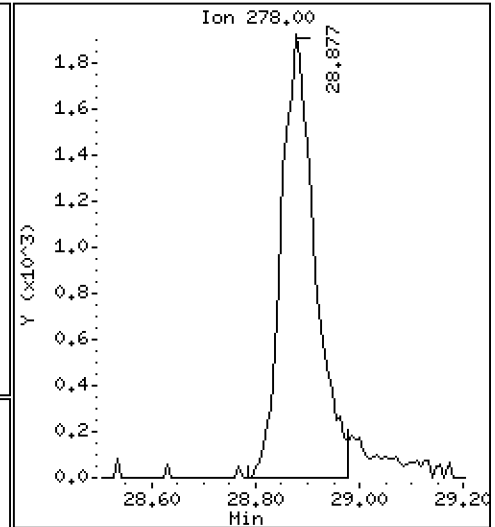
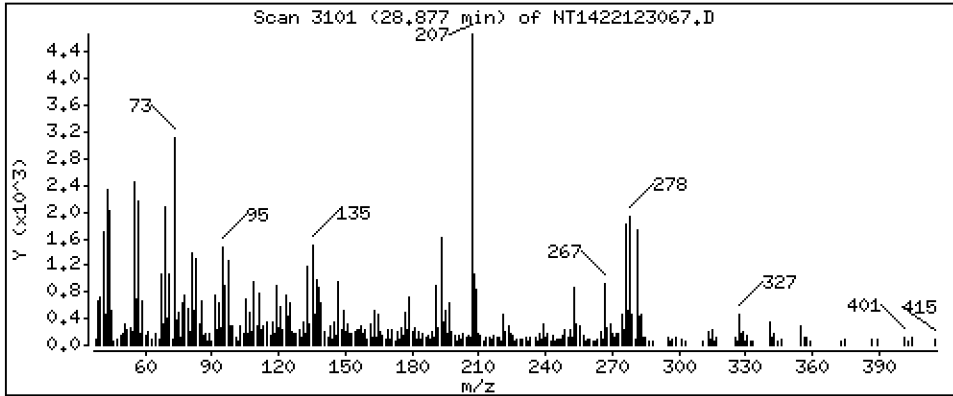
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,1509 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

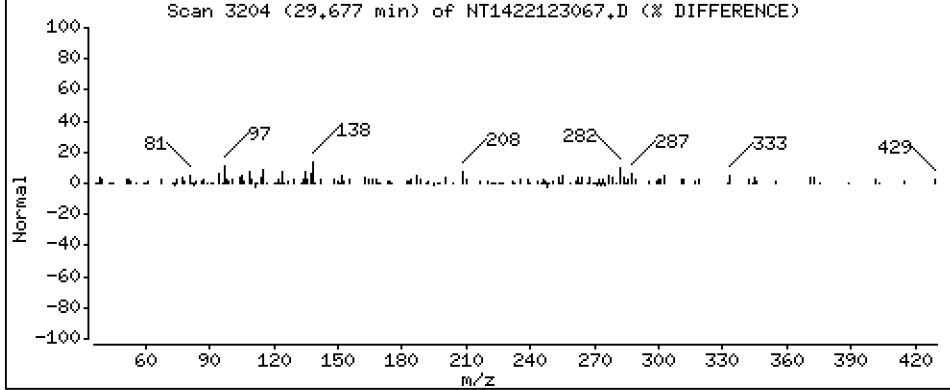
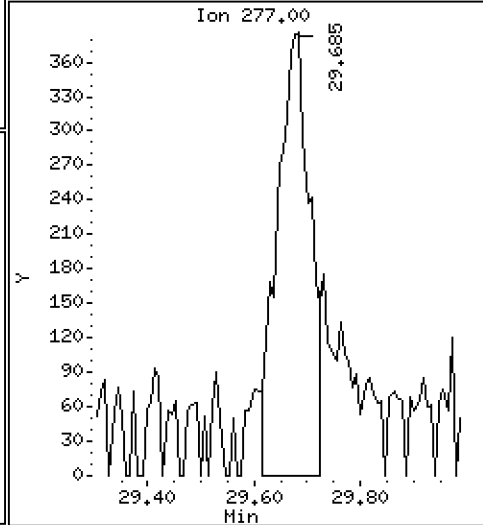
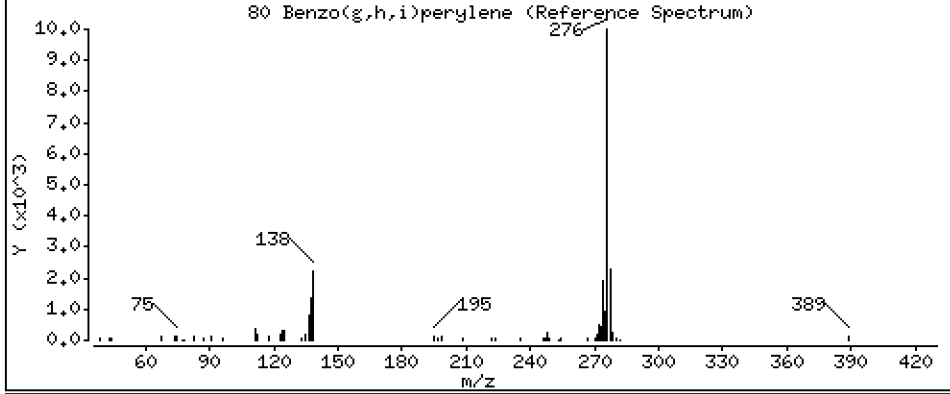
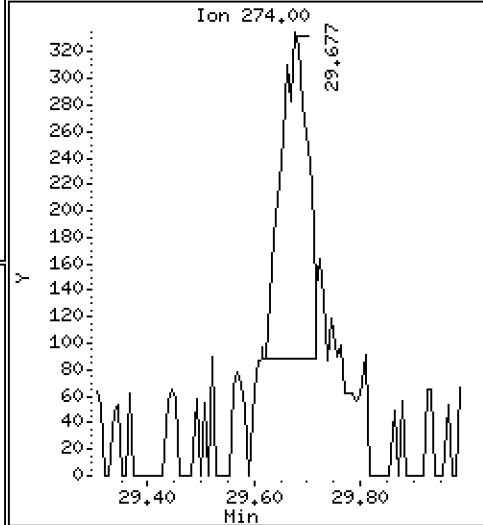
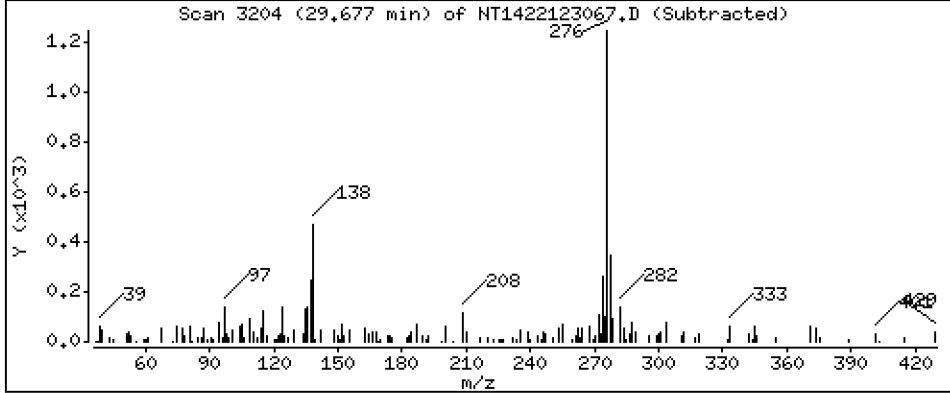
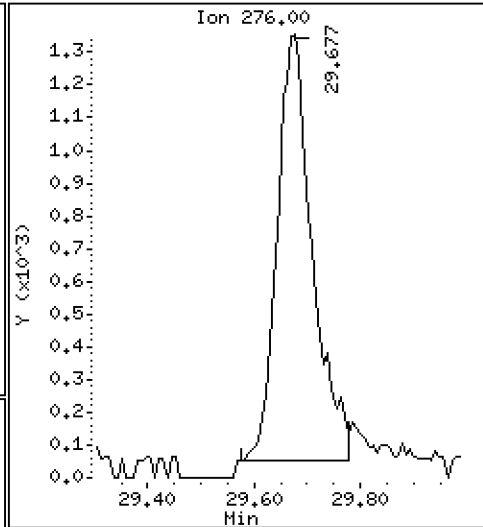
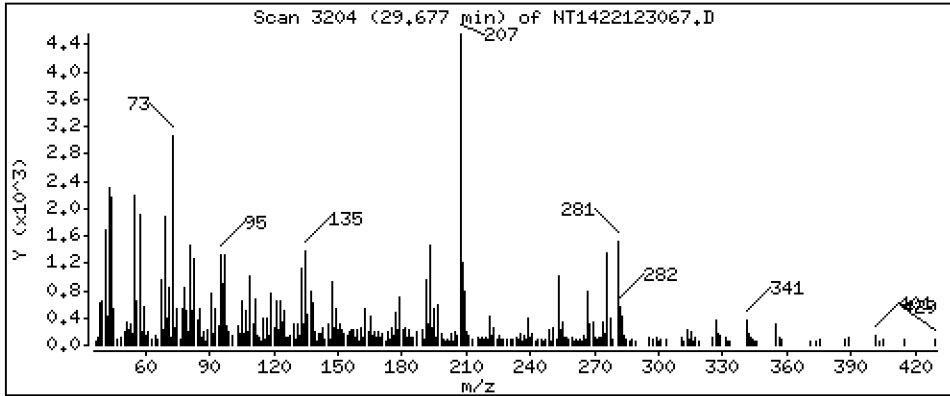
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,1058 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

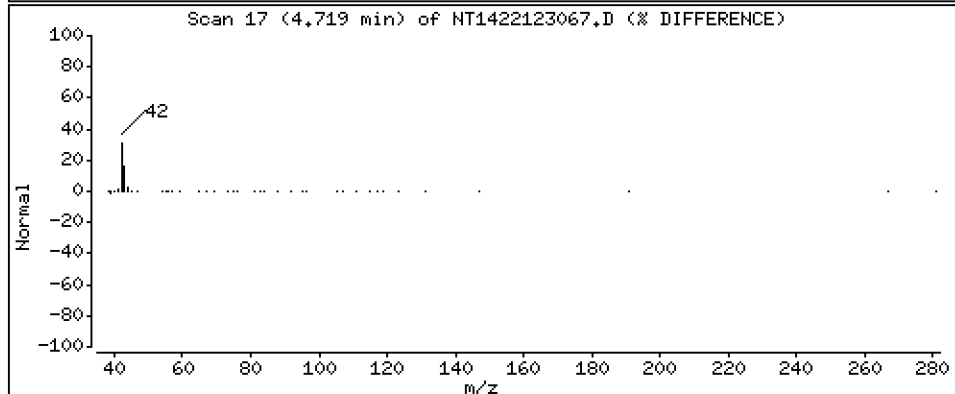
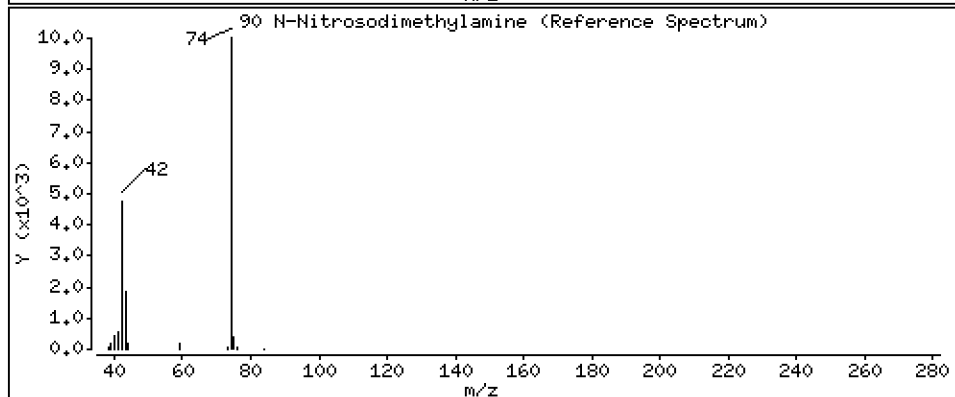
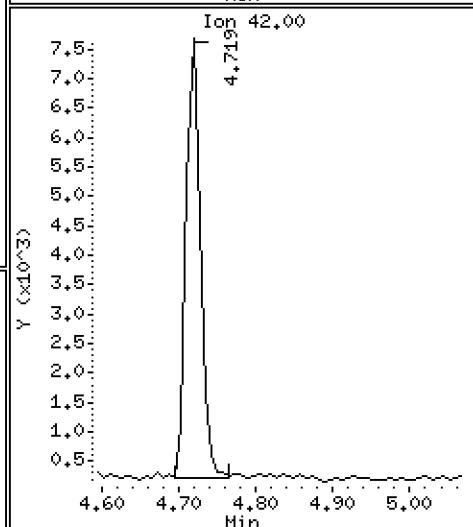
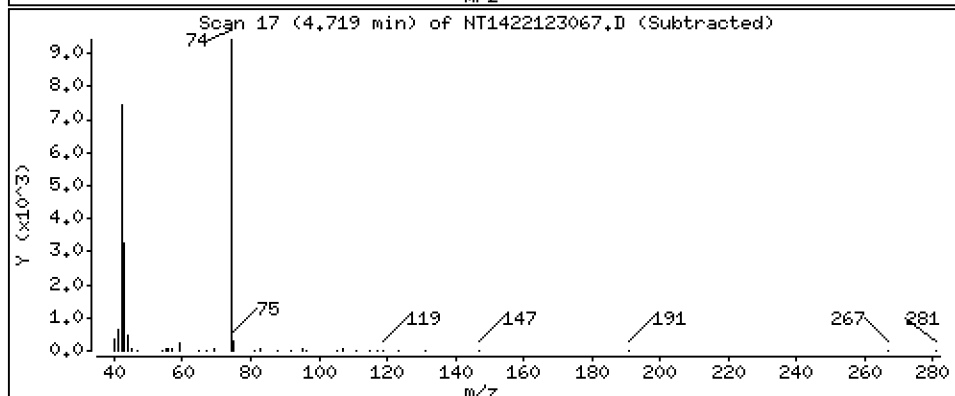
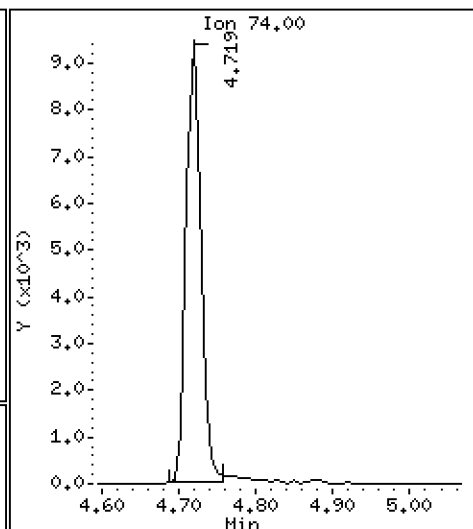
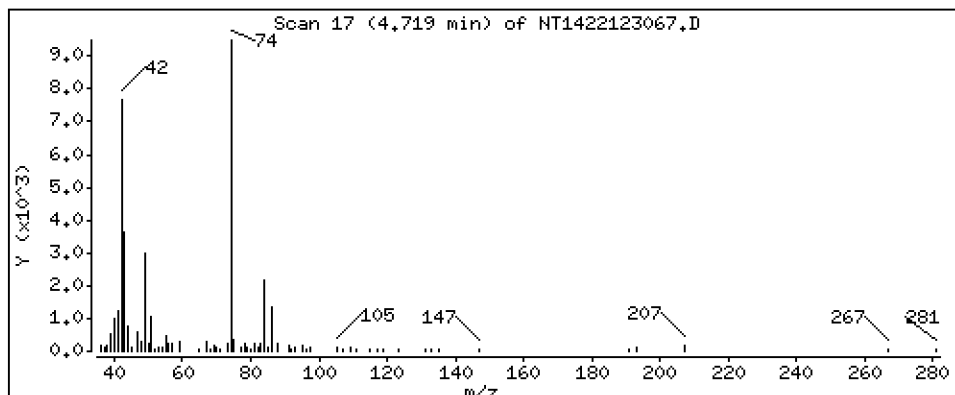
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 0,4928 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

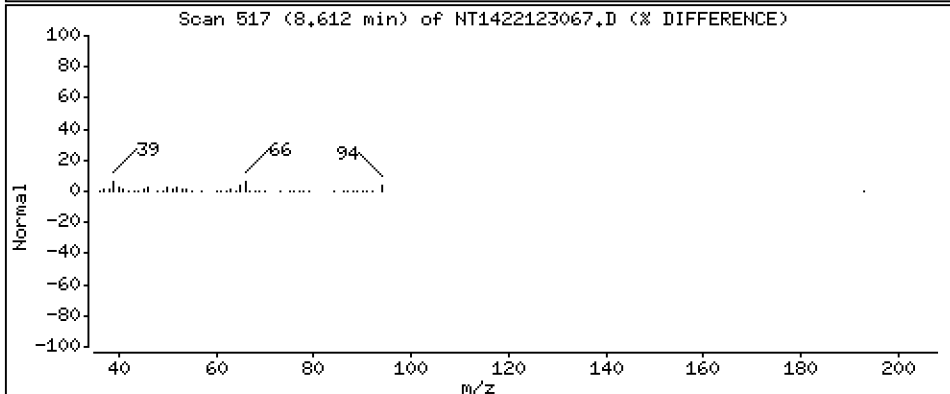
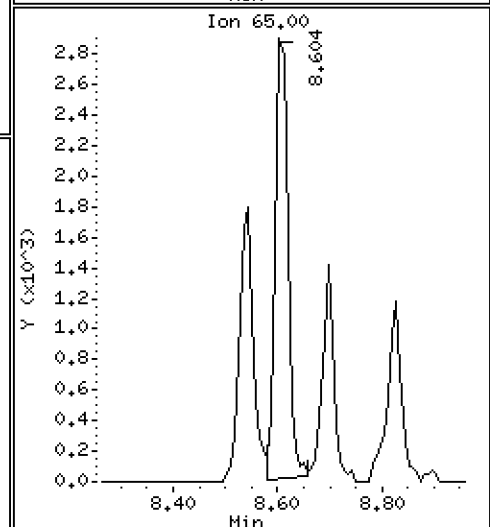
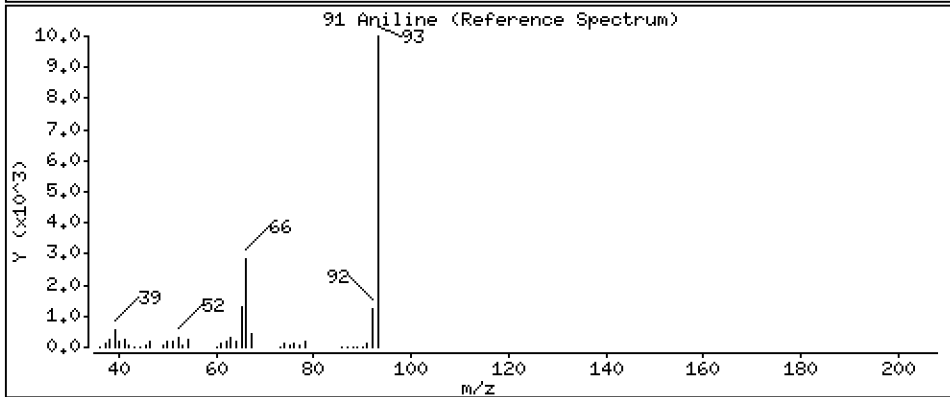
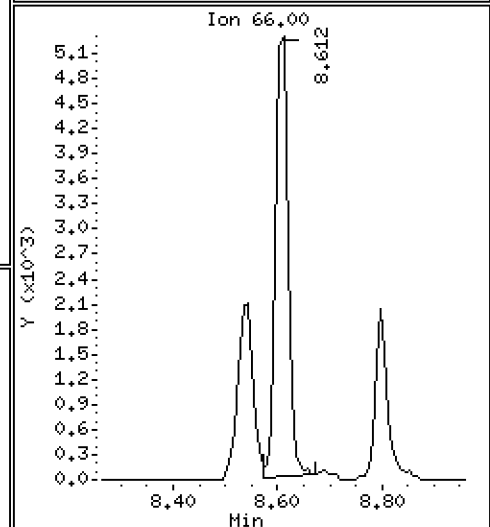
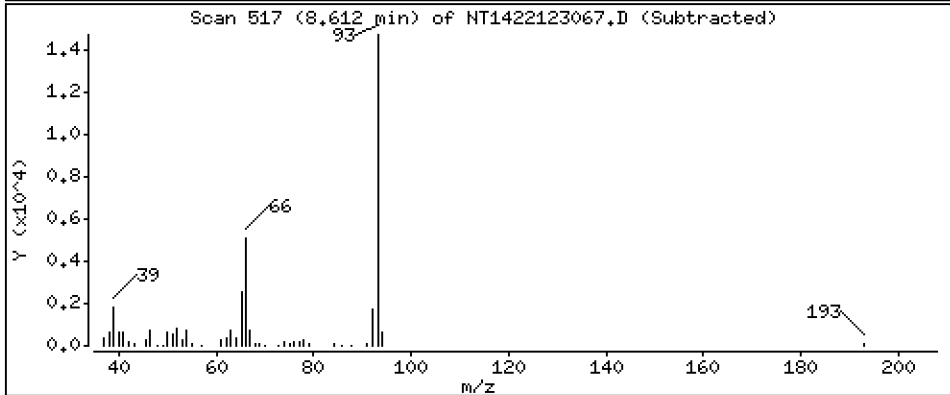
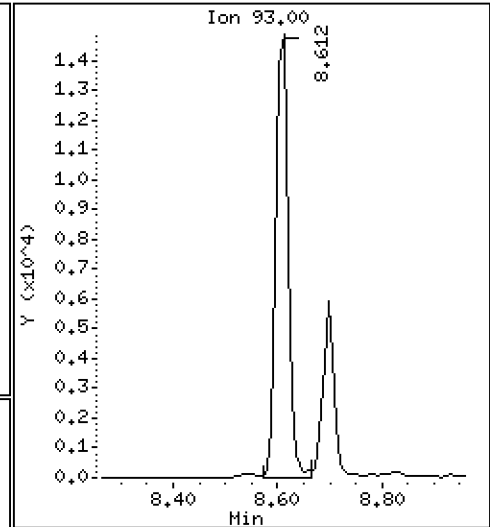
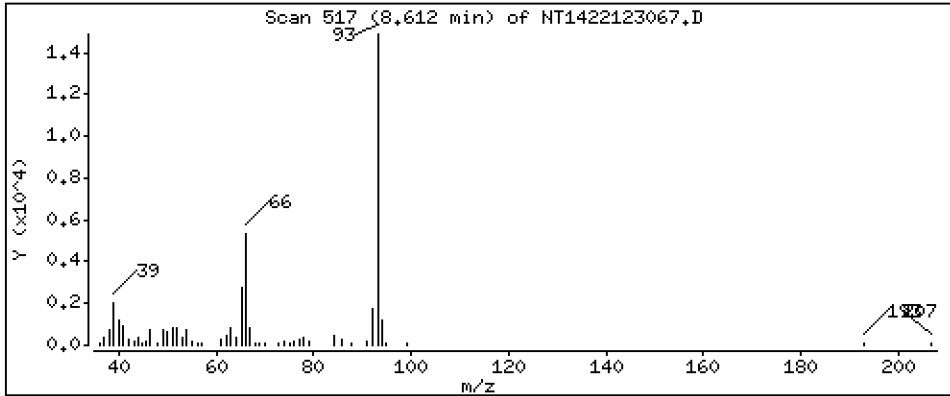
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.4840 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

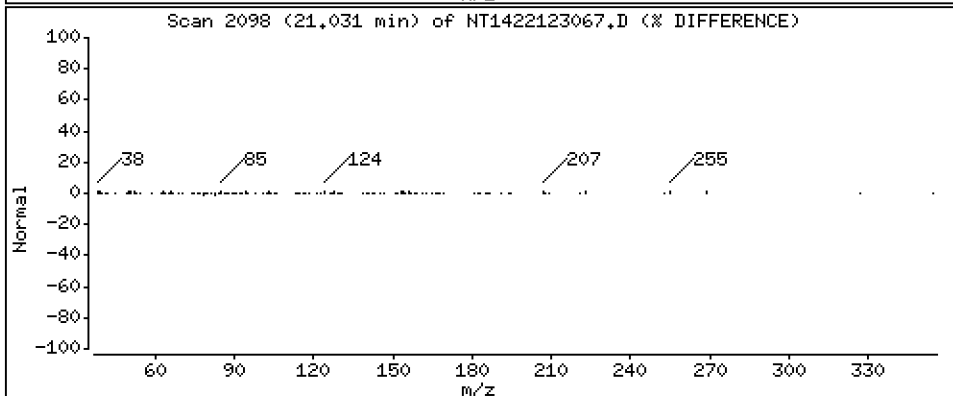
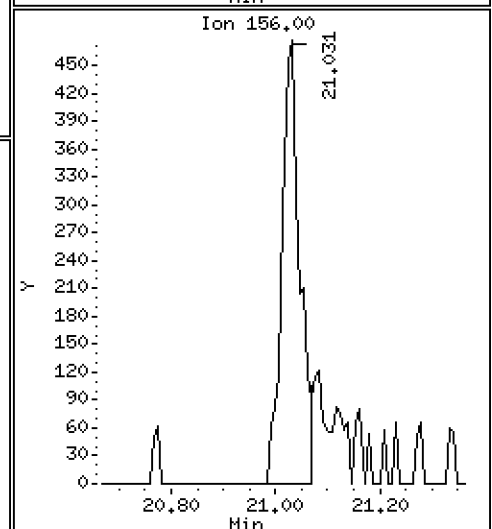
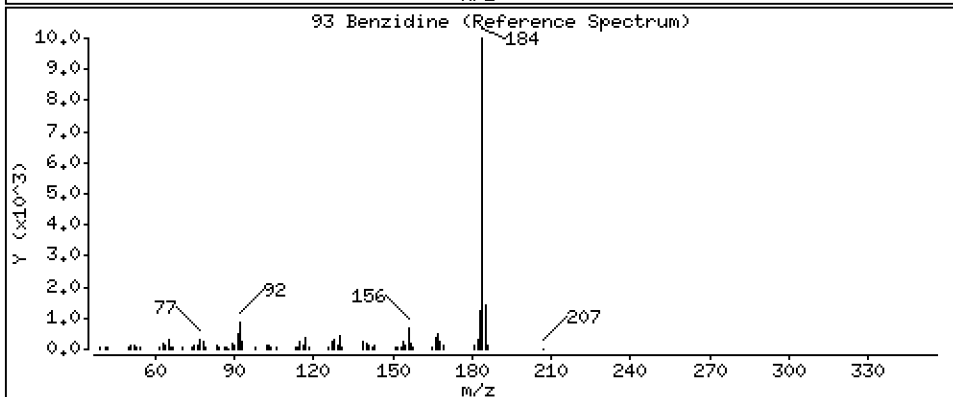
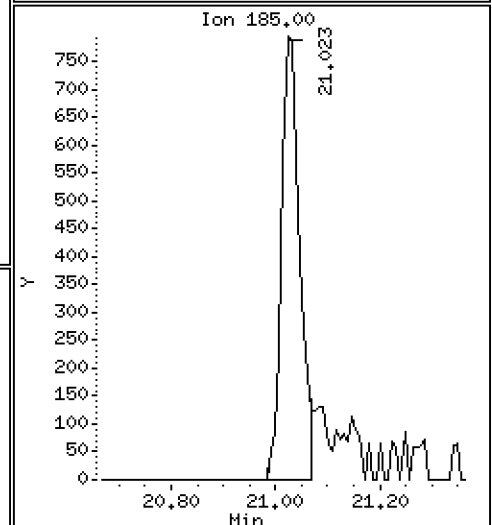
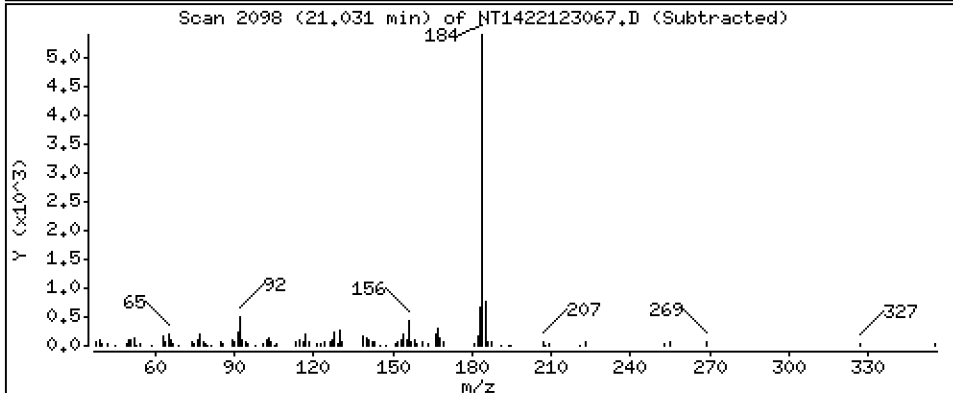
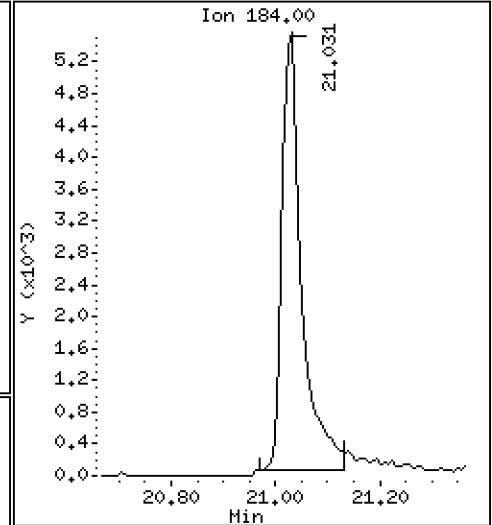
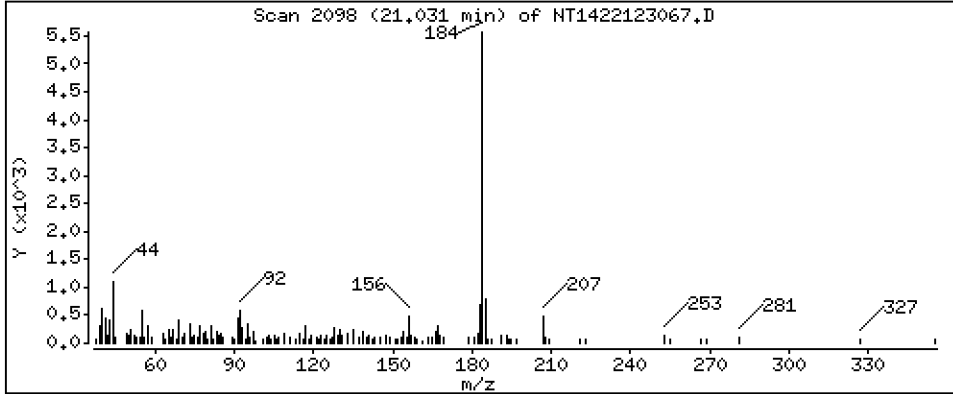
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

Concentration: 0,4312 ug/mL

93 Benzidine



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

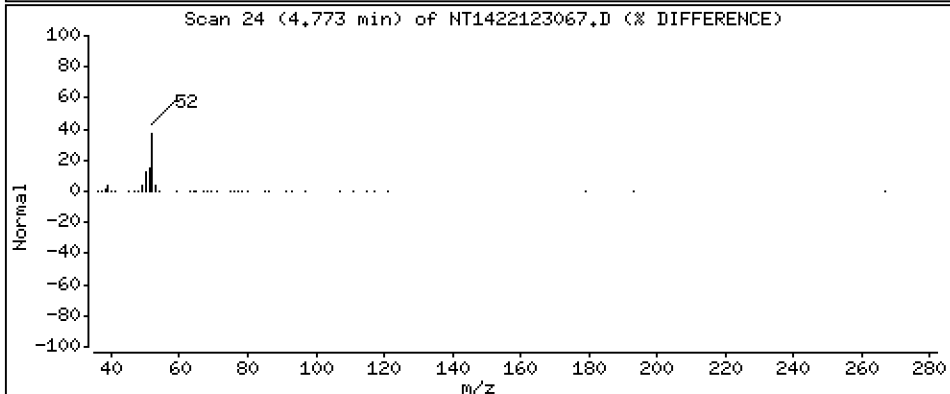
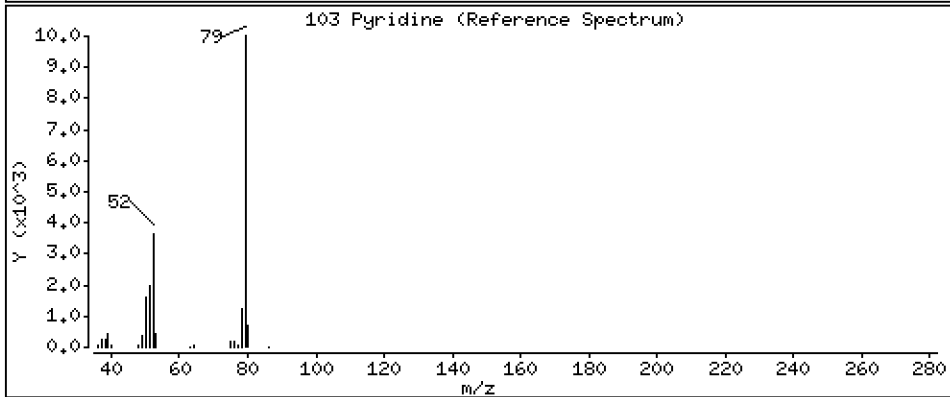
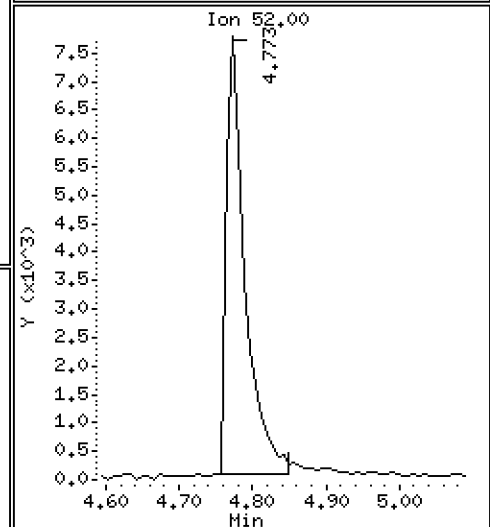
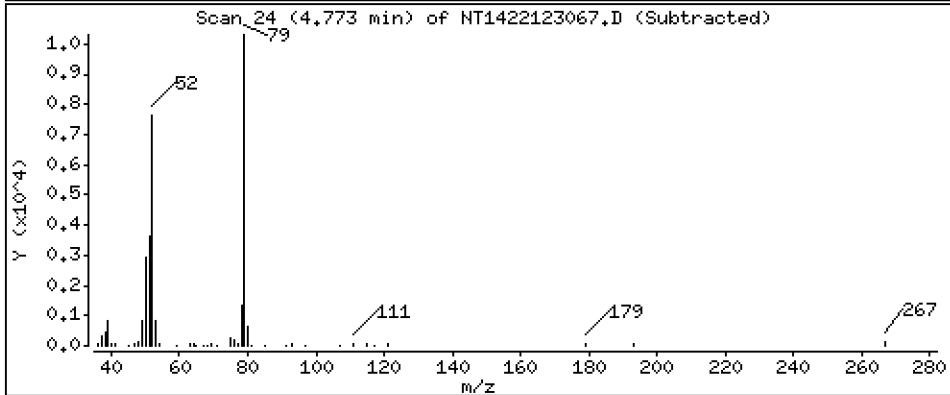
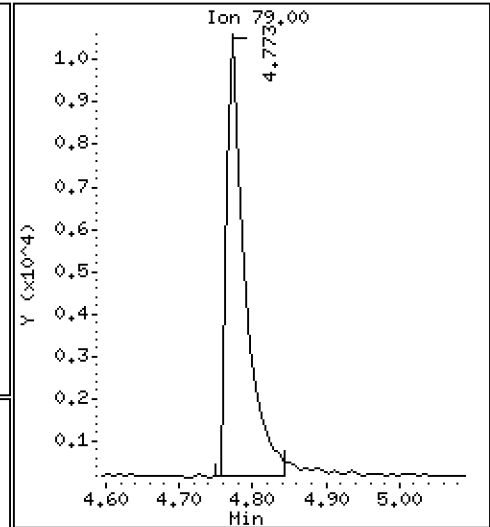
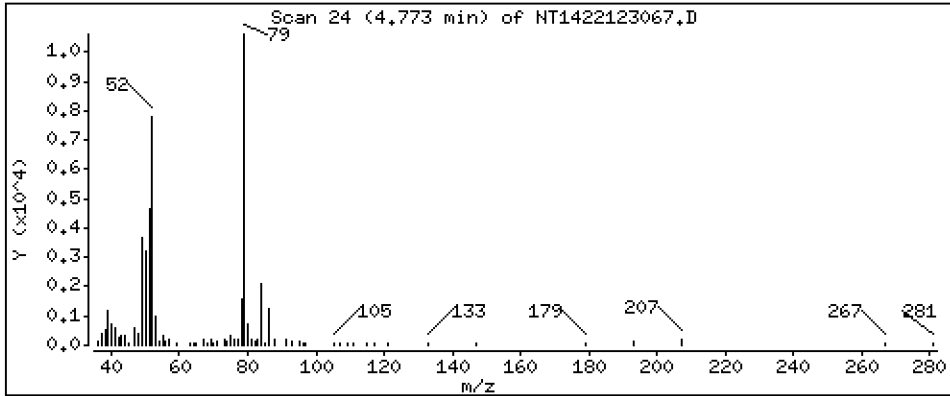
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,2348 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

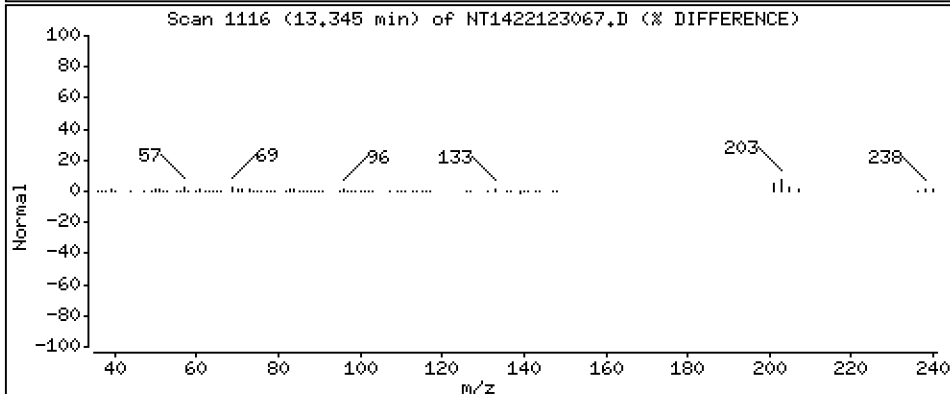
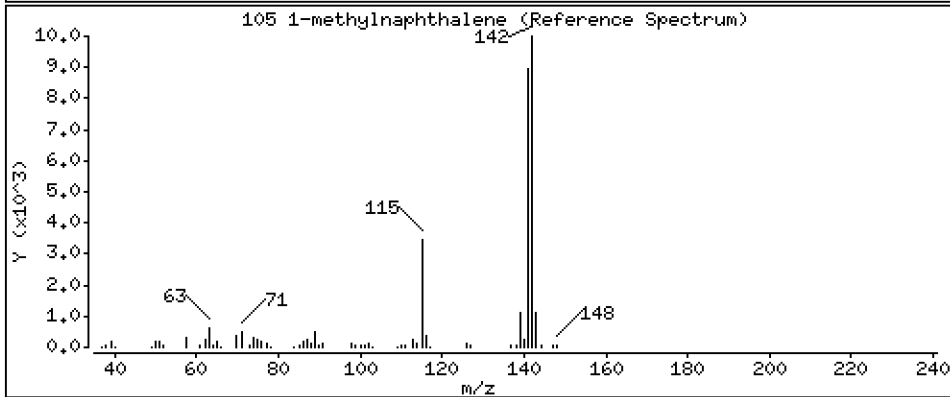
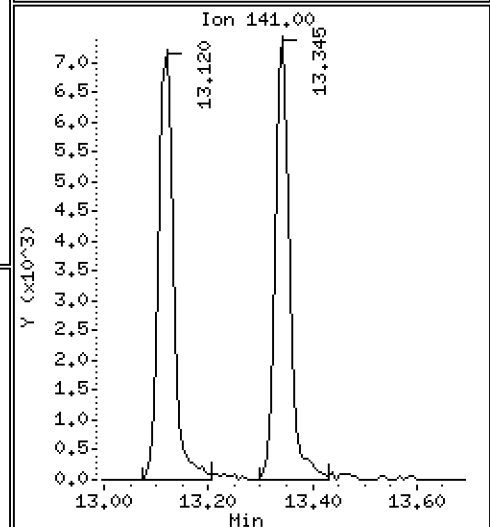
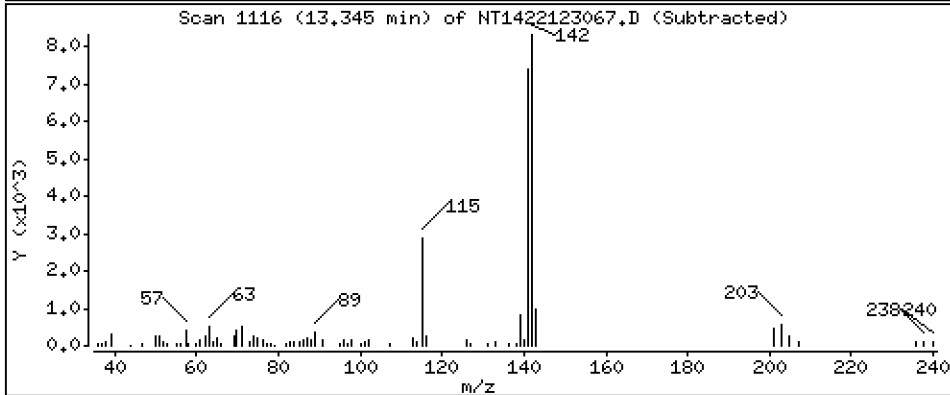
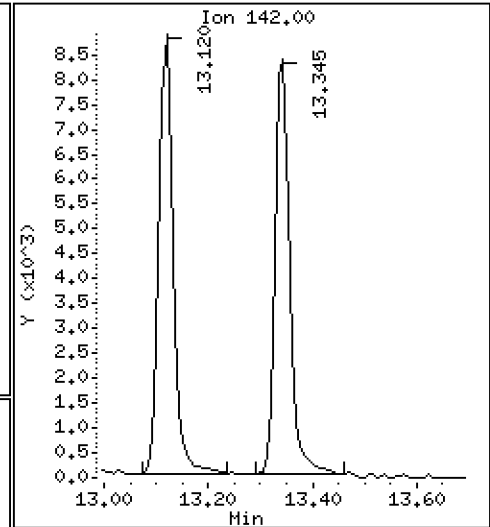
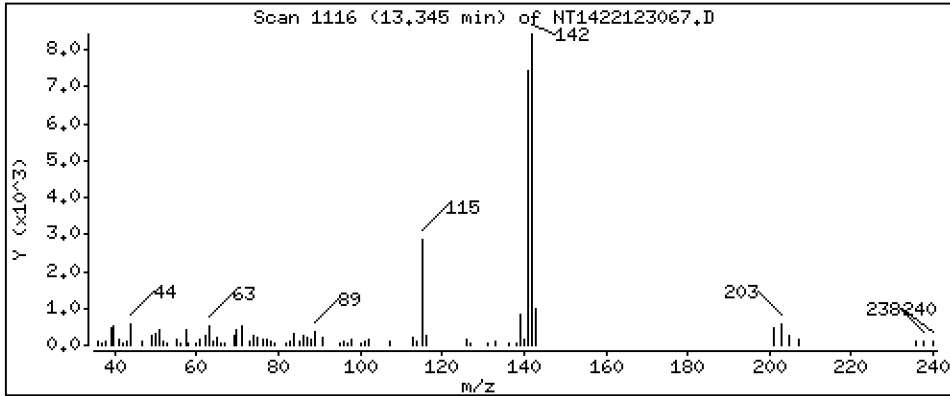
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,2273 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

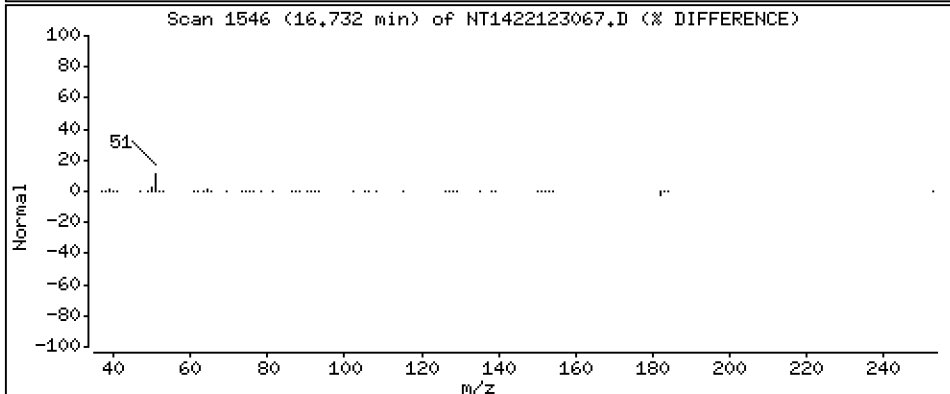
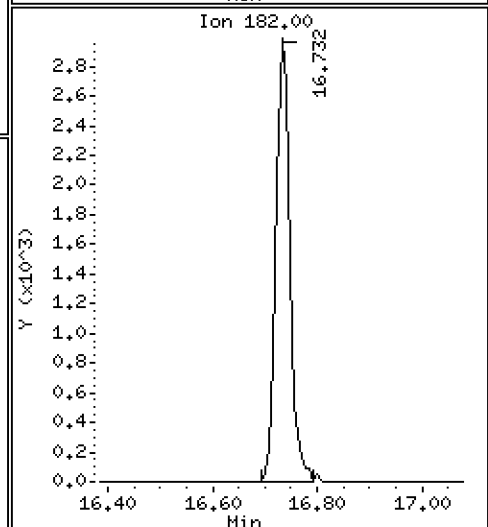
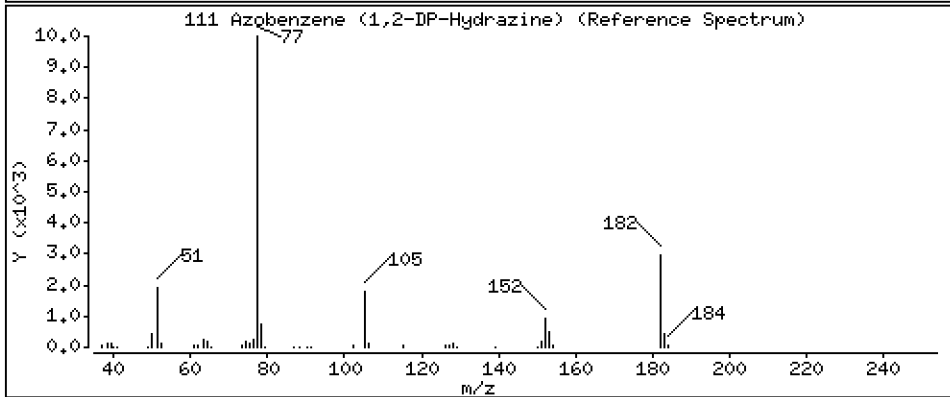
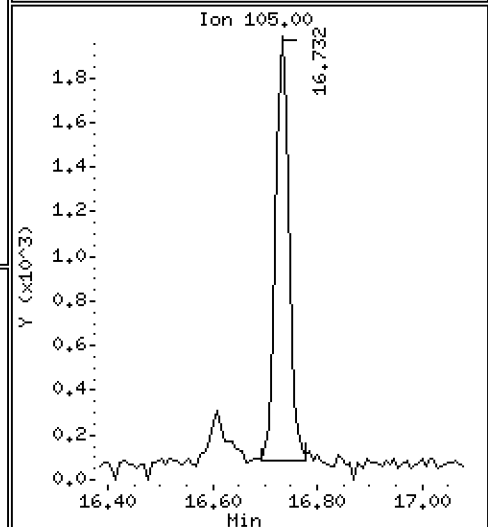
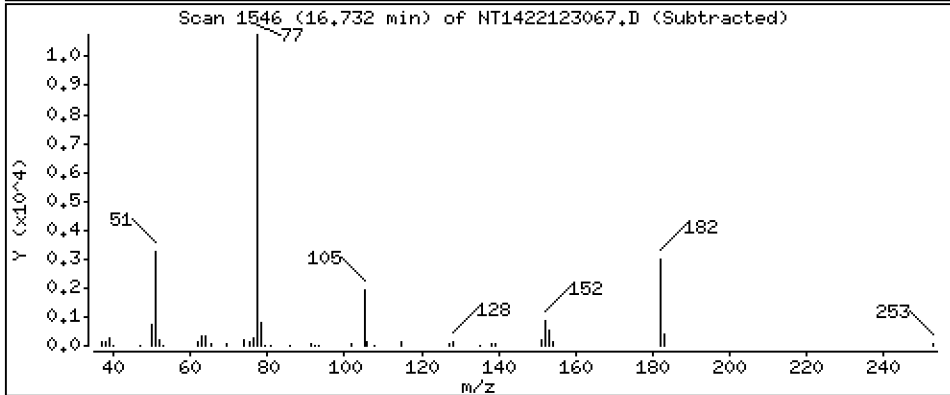
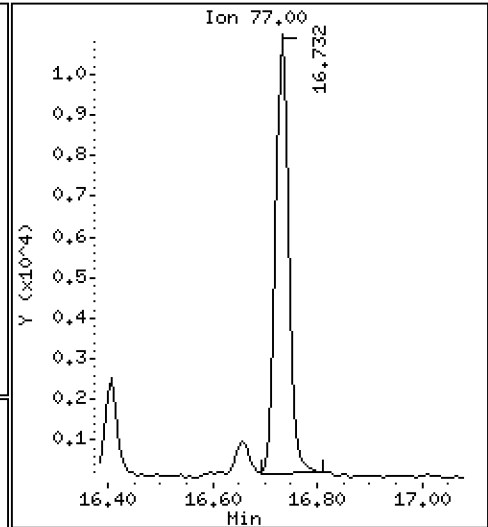
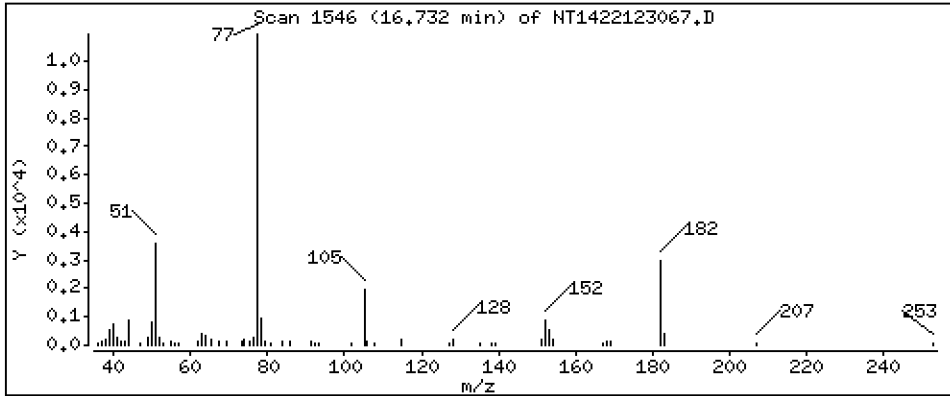
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,2385 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

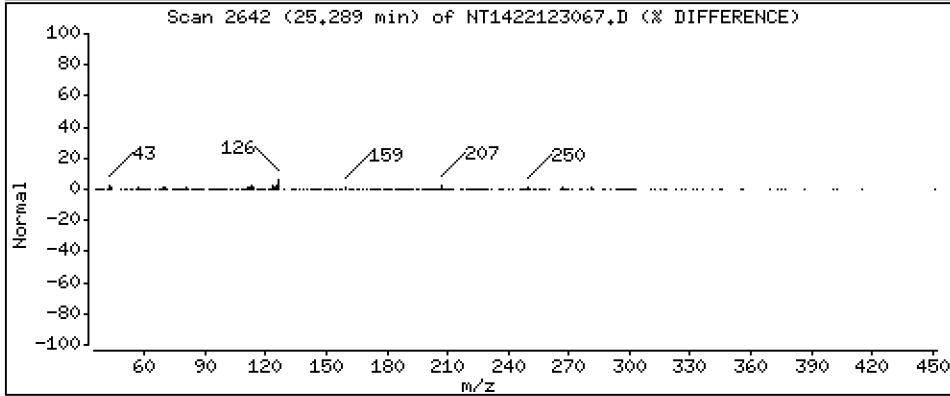
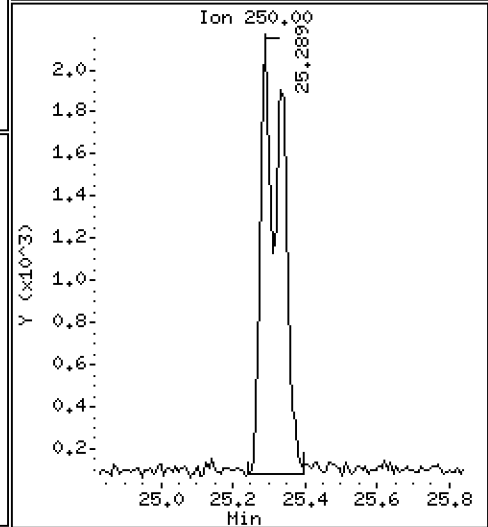
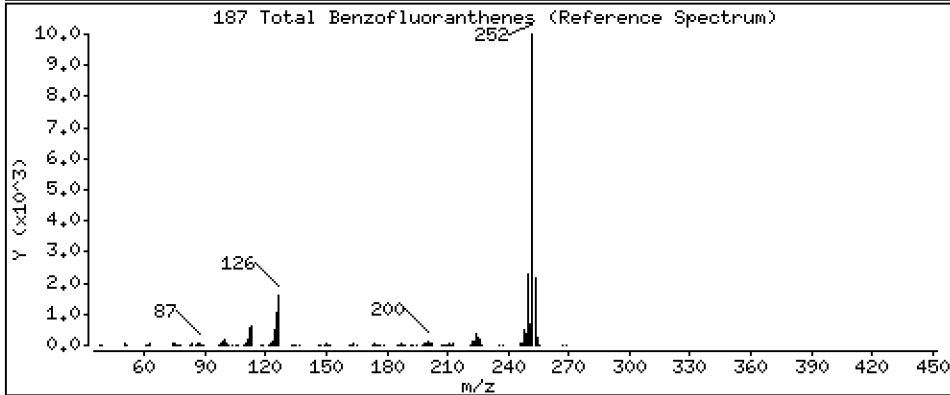
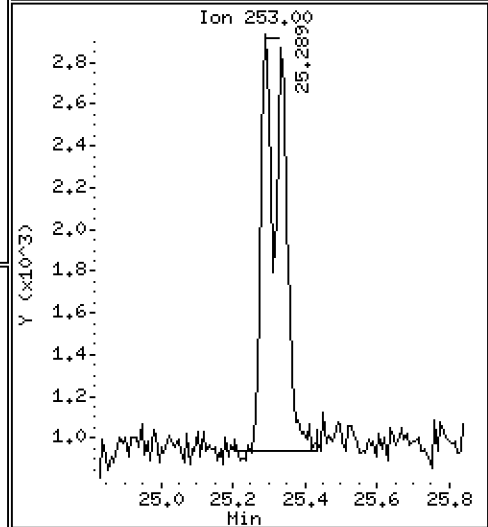
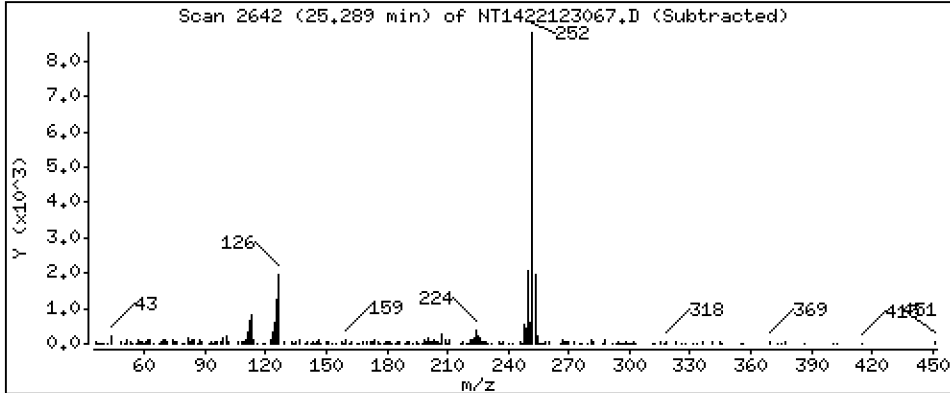
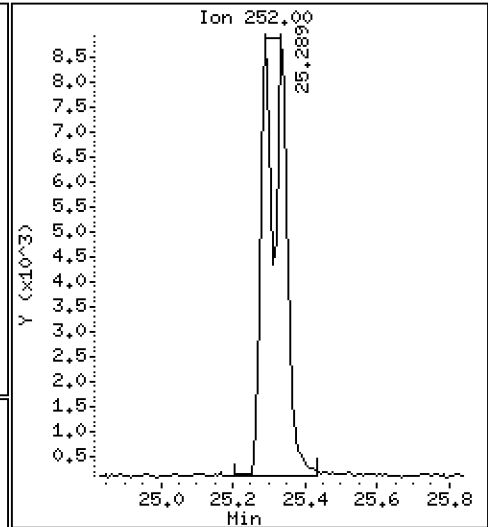
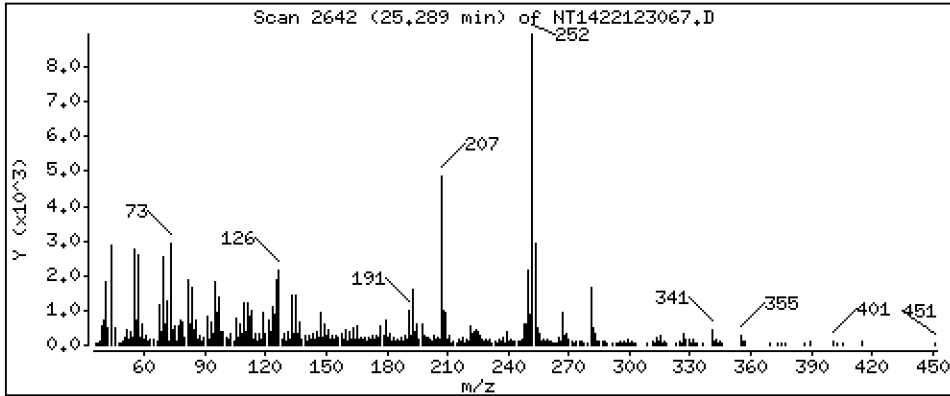
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 0,5264 ug/mL



Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

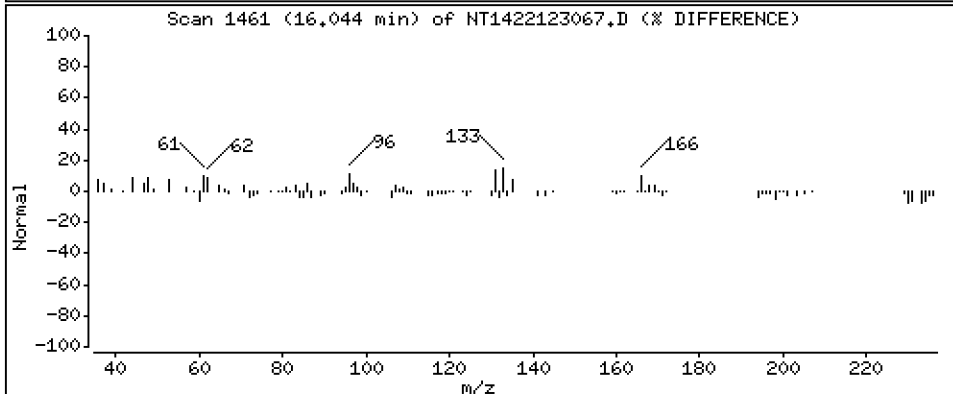
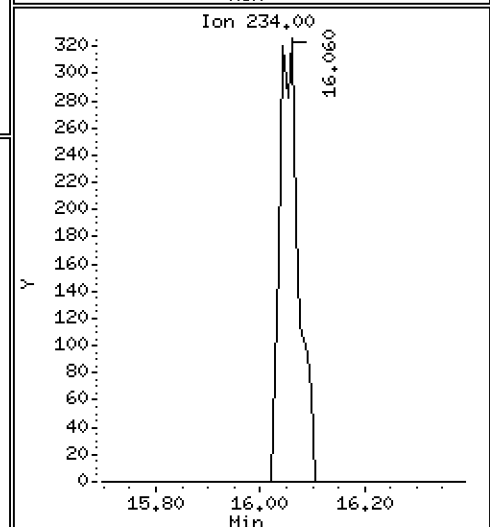
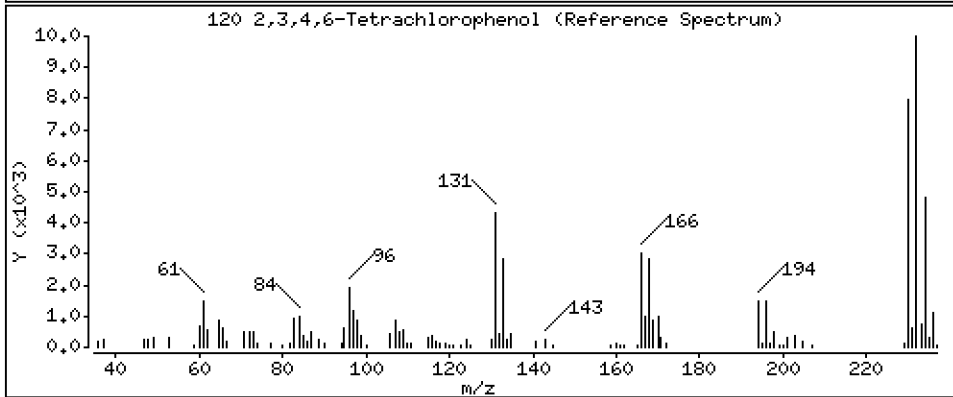
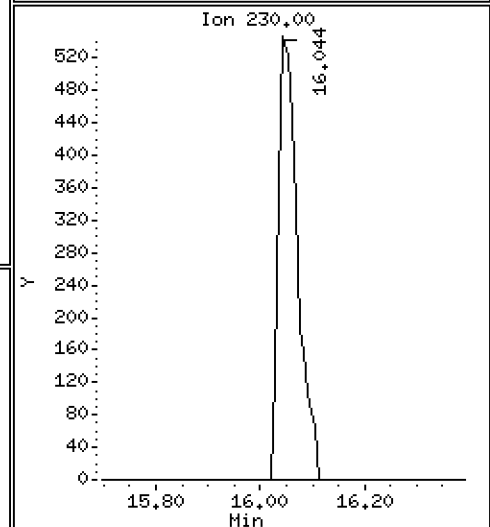
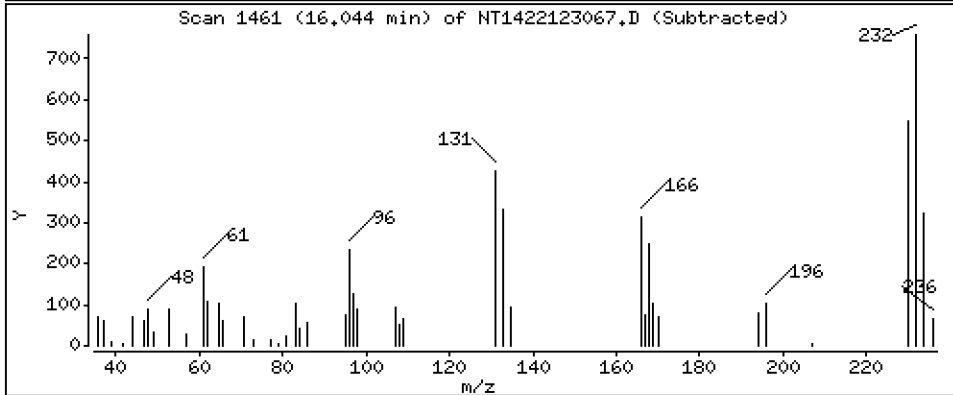
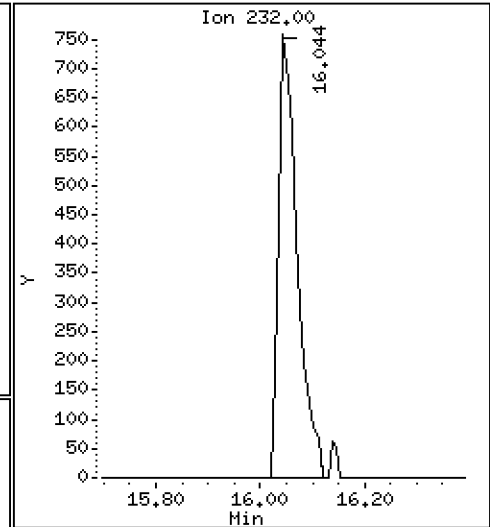
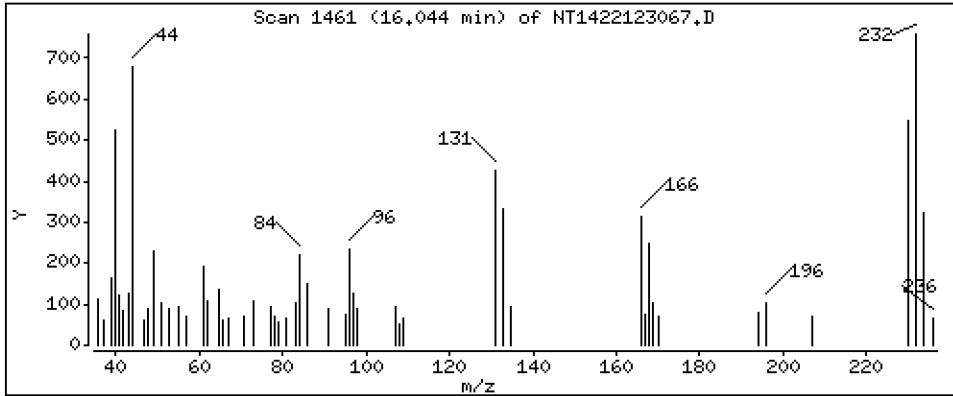
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,1280 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
 Lab Smp Id: SKL0355-LCV3
 Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-LCV3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.919	(0.755)	12469	0.35660	0.3566
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	13476	0.31186	0.3119
3 Phenol	94		8.542	8.542	(0.932)	11161	0.22731	0.2273
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	12221	0.33675	0.3367
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	8093	0.23927	0.2393
6 2-Chlorophenol	128		8.827	8.827	(0.964)	9811	0.24616	0.2462
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	10440	0.24702	0.2470
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	109143	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	10018	0.25020	0.2502
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	5962	0.24036	0.2404
12 1,2-Dichlorobenzene	146		9.556	9.556	(1.043)	9504	0.24203	0.2420
11 Benzyl alcohol	108		9.440	9.440	(1.030)	3613	0.16529	0.1653 (M)
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	2767	0.24305	0.2430
13 2-Methylphenol	108		9.665	9.665	(1.055)	7875	0.22072	0.2207
17 Hexachloroethane	117		10.154	10.154	(1.108)	2915	0.19795	0.1979
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	5112	0.23520	0.2352
15 4-Methylphenol	108		9.936	9.936	(1.085)	7826	0.20792	0.2079
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.880)	7594	0.22651	0.2265
19 Nitrobenzene	77		10.293	10.301	(0.882)	7425	0.22300	0.2230
20 Isophorone	82		10.743	10.751	(0.921)	8370	0.19724	0.1972
21 2-Nitrophenol	139		10.937	10.937	(0.938)	4304	0.21163	0.2116
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	15950	0.45898	0.4590
23 Bis(2-Chloroethoxy)methane	93		11.186	11.186	(0.959)	7789	0.23594	0.2359
24 Benzoic acid	105		11.131	11.209	(0.954)	4437	0.20974	0.2097 (M)
25 2,4-Dichlorophenol	162		11.403	11.395	(0.977)	12011	0.41003	0.4100
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	7605	0.24010	0.2401
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	397029	4.00000	
28 Naphthalene	128		11.712	11.712	(1.004)	23009	0.23549	0.2355
29 4-Chloroaniline	127		11.835	11.835	(1.015)	16324	0.40512	0.4051
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	3740	0.23799	0.2380
31 4-Chloro-3-methylphenol	107		12.826	12.810	(1.099)	11960	0.43265	0.4327
32 2-Methylnaphthalene	142		13.120	13.120	(1.125)	16268	0.22698	0.2270
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.887)	624	0.04042	0.04042

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196		13.754	13.739	(0.898)	5867	0.34421	0.3442	
35 2,4,5-Trichlorophenol	196		13.839	13.816	(0.904)	7090	0.36041	0.3604	
§ 36 2-Fluorobiphenyl	172		13.901	13.901	(0.908)	15298	0.22280	0.2228	
37 2-Chloronaphthalene	162		14.118	14.118	(0.922)	13703	0.23460	0.2346	
38 2-Nitroaniline	65		14.381	14.373	(0.939)	6597	0.42959	0.4296	
39 Dimethylphthalate	163		14.799	14.799	(0.967)	12311	0.21377	0.2138	
40 Acenaphthylene	152		14.993	14.993	(0.979)	20407	0.22913	0.2291	
41 2,6-Dinitrotoluene	165		14.946	14.938	(0.976)	4965	0.38201	0.3820	
* 42 Acenaphthene-d10	164		15.310	15.310	(1.000)	204214	4.00000		
43 3-Nitroaniline	138		15.240	15.225	(0.995)	5629	0.35634	0.3563	
44 Acenaphthene	153		15.372	15.371	(1.004)	13024	0.23577	0.2358	
45 2,4-Dinitrophenol	184		Compound Not Detected.						
46 Dibenzofuran	168		15.704	15.704	(1.026)	19925	0.24053	0.2405	
47 4-Nitrophenol	109		15.665	15.557	(1.023)	2026	0.26799	0.2680 (M)	
48 2,4-Dinitrotoluene	165		15.758	15.750	(1.029)	6043	0.33888	0.3389	
50 Diethylphthalate	149		16.260	16.268	(1.062)	20315	0.25952	0.2595	
49 Fluorene	166		16.423	16.423	(1.073)	20566	0.23337	0.2334	
51 4-Chlorophenyl-phenylether	204		16.407	16.407	(1.072)	9124	0.21148	0.2115	
52 4-Nitroaniline	138		16.531	16.500	(1.080)	7107	0.37385	0.3738 (M)	
53 4,6-Dinitro-2-methylphenol	198		16.608	16.600	(0.905)	1281	0.09261	0.09261	
54 N-Nitrosodiphenylamine	169		16.654	16.654	(0.907)	14191	0.25087	0.2509	
§ 55 2,4,6-Tribromophenol	330		16.955	16.955	(1.107)	2149	0.22461	0.2246	
56 4-Bromophenyl-phenylether	248		17.417	17.410	(0.949)	4781	0.22320	0.2232	
57 Hexachlorobenzene	284		17.734	17.734	(0.966)	5567	0.23683	0.2368	
58 Pentachlorophenol	266		18.106	18.090	(0.986)	206	0.02024	0.02024 (M)	
* 59 Phenanthrene-d10	188		18.361	18.361	(1.000)	329657	4.00000		
60 Phenanthrene	178		18.408	18.408	(1.003)	20593	0.23959	0.2396	
61 Anthracene	178		18.500	18.500	(1.008)	19055	0.23223	0.2322	
62 Carbazole	167		18.841	18.825	(1.026)	18308	0.23080	0.2308	
63 Di-n-butylphthalate	149		19.615	19.614	(1.068)	20354	0.22726	0.2273	
64 Fluoranthene	202		20.791	20.791	(0.889)	20667	0.23809	0.2381	
65 Pyrene	202		21.216	21.216	(0.907)	21300	0.23339	0.2334	
§ 66 Terphenyl-d14	244		21.495	21.495	(0.919)	14382	0.22224	0.2222	
67 Butylbenzylphthalate	149		22.408	22.408	(0.958)	9292	0.26989	0.2699	
68 Benzo(a)anthracene	228		23.368	23.376	(0.999)	21552	0.26391	0.2639	
* 69 Chrysene-d12	240		23.399	23.399	(1.000)	269585	4.00000		
70 3,3'-Dichlorobenzidine	252		23.322	23.322	(0.997)	20482	0.81929	0.8193	
71 Chrysene	228		23.446	23.446	(1.002)	18735	0.24287	0.2429	
72 bis(2-Ethylhexyl)phthalate	149		23.430	23.430	(0.959)	13030	0.26109	0.2611	
* 134 Di-n-octylphthalate-d4	153		24.421	24.421	(1.000)	449369	4.00000		
73 Di-n-octylphthalate	149		24.429	24.429	(1.000)	26527	0.24592	0.2459	
74 Benzo(b)fluoranthene	252		25.288	25.296	(0.969)	17280	0.24137	0.2414	
75 Benzo(k)fluoranthene	252		25.335	25.335	(0.971)	20473	0.28097	0.2810	
76 Benzo(a)pyrene	252		25.970	25.970	(0.996)	15021	0.25240	0.2524	
* 77 Perylene-d12	264		26.086	26.086	(1.000)	227797	4.00000		
78 Indeno(1,2,3-cd)pyrene	276		28.861	28.838	(1.106)	10107	0.14940	0.1494	
79 Dibenzo(a,h)anthracene	278		28.877	28.853	(1.107)	8673	0.15086	0.1509	
80 Benzo(g,h,i)perylene	276		29.677	29.653	(1.138)	5996	0.10580	0.1058	
90 N-Nitrosodimethylamine	74		4.718	4.718	(0.515)	11868	0.49283	0.4928	
91 Aniline	93		8.611	8.611	(0.940)	23141	0.48403	0.4840	
93 Benzidine	184		21.030	21.015	(0.899)	14240	0.43116	0.4312	
103 Pyridine	79		4.772	4.741	(0.521)	17969	0.23482	0.2348	
105 1-methylnaphthalene	142		13.344	13.344	(1.144)	15653	0.22730	0.2273	
111 Azobenzene (1,2-DP-Hydrazine)	77		16.731	16.731	(1.093)	18088	0.23851	0.2385	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123067.D Calibration Time: 23:30
 Lab Smp Id: SKL0355-LCV3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 00:06

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

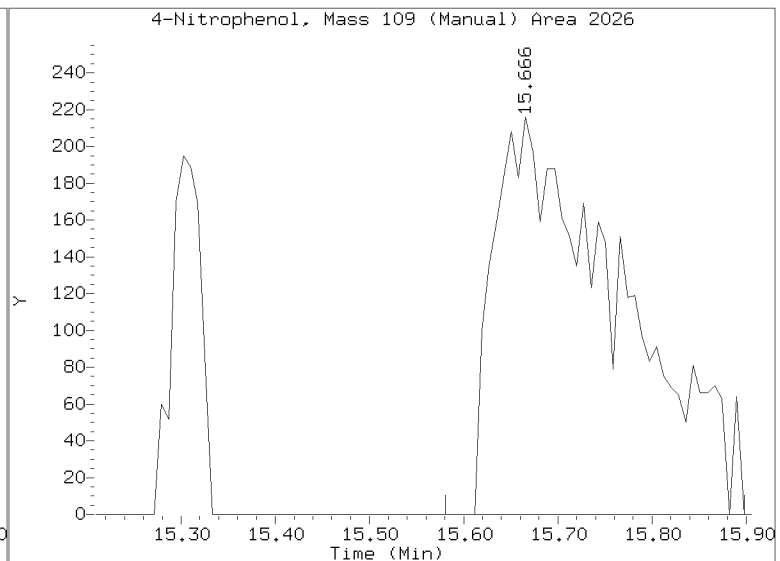
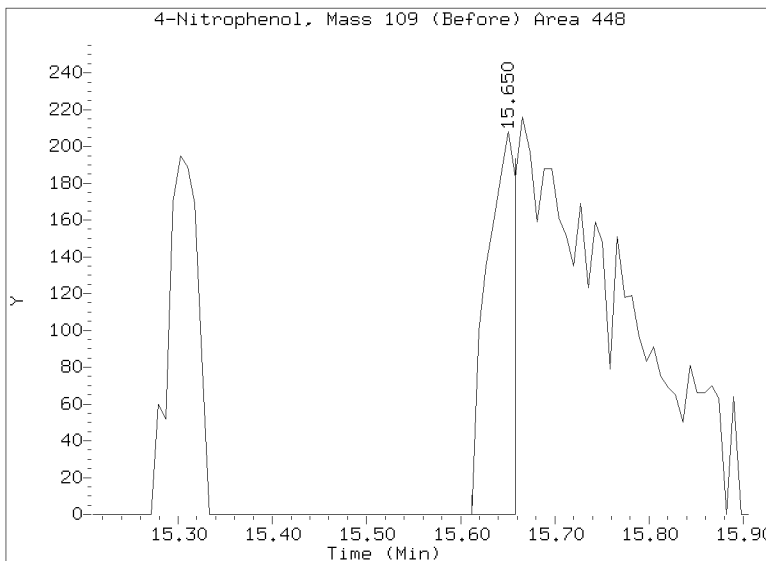
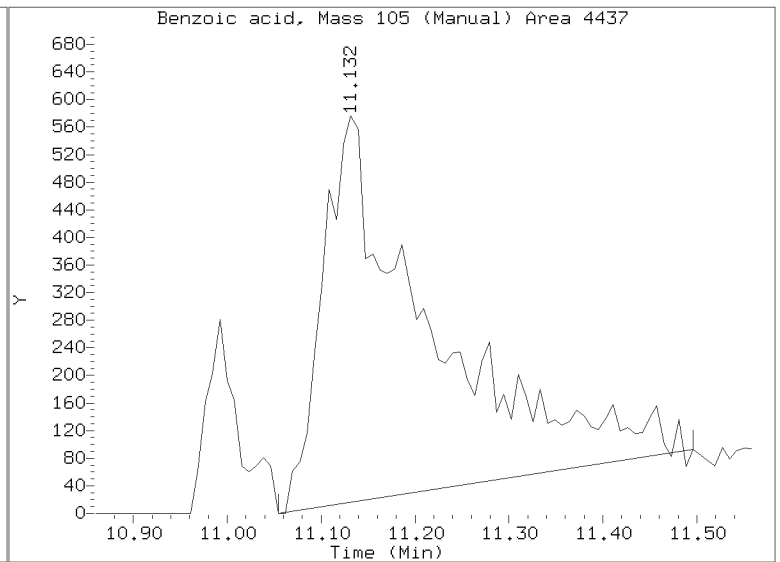
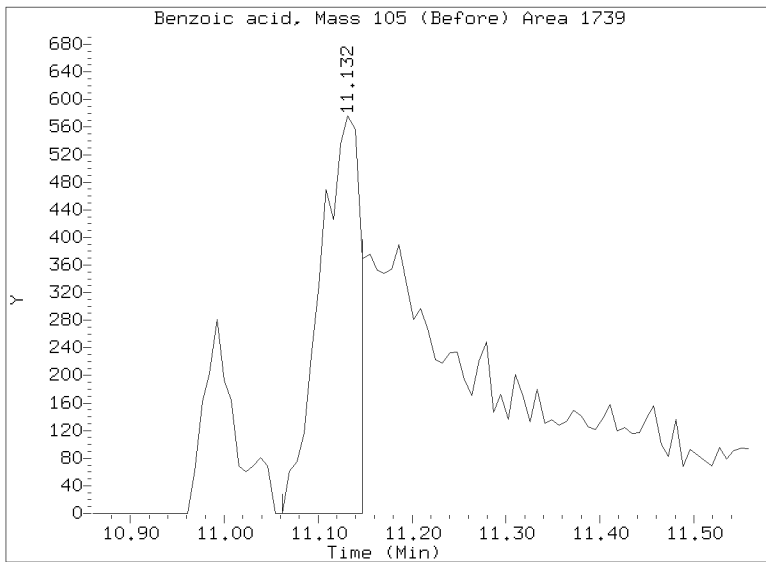
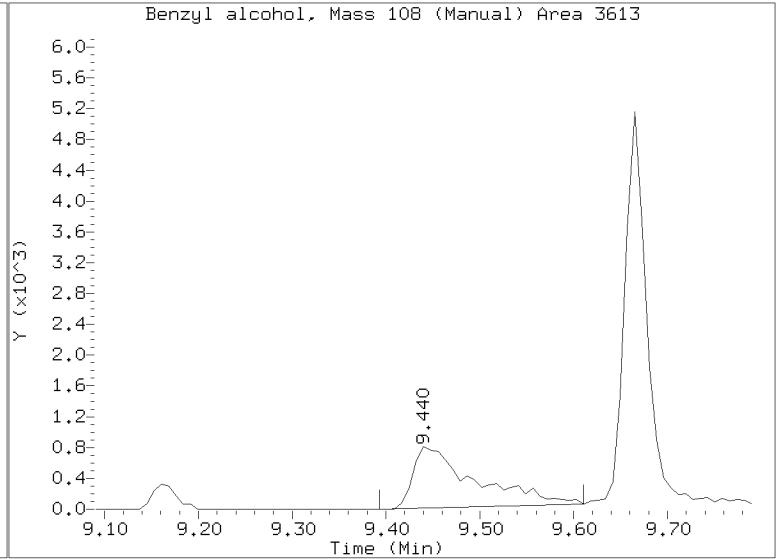
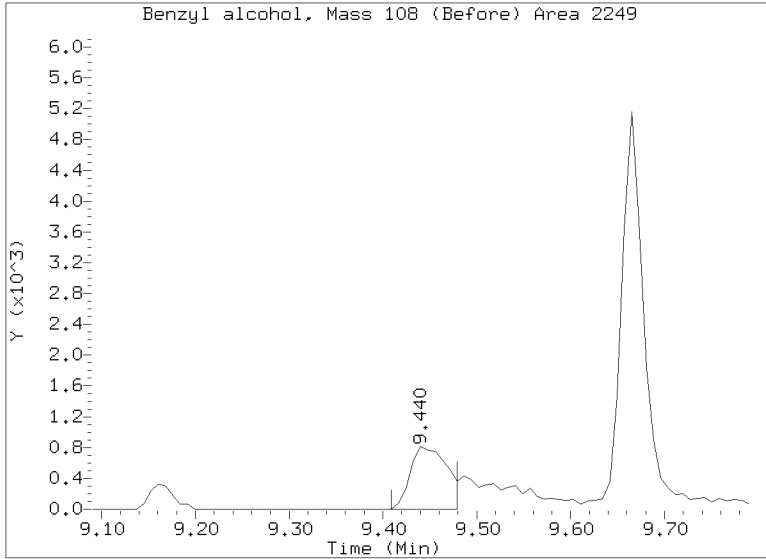
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

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Injection Date: 01-JAN-2023 00:06
Lab ID: SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

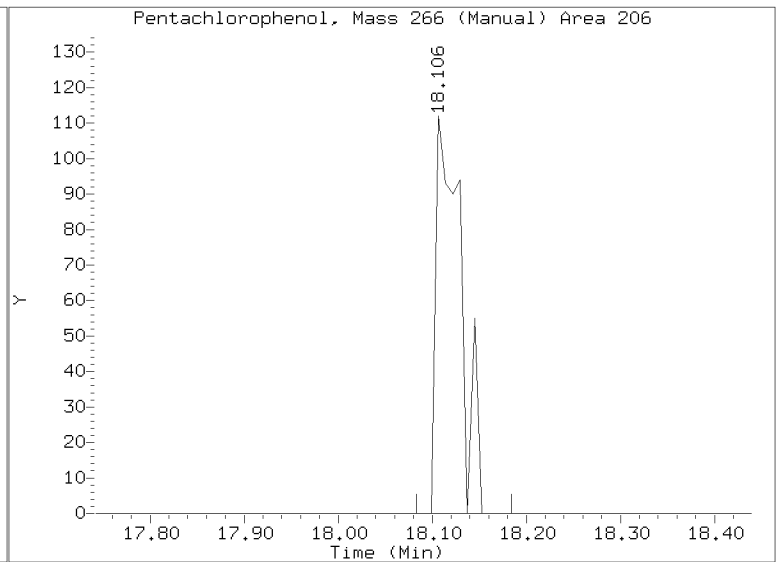
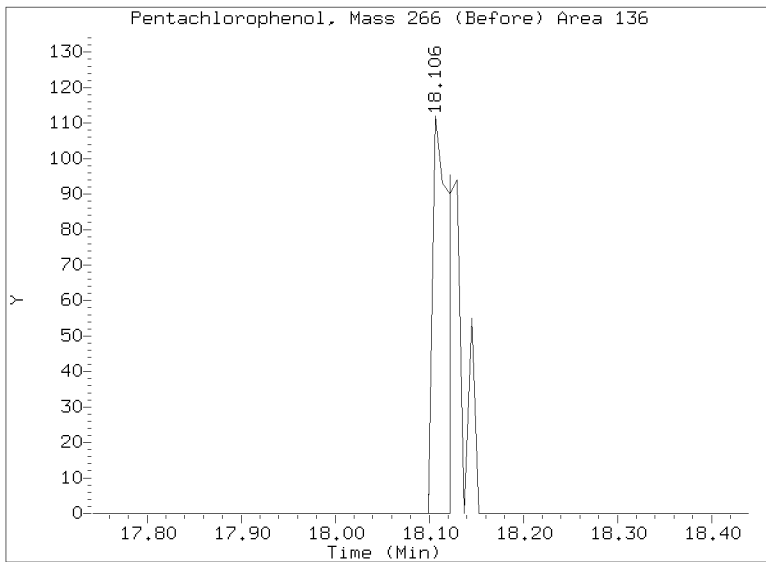
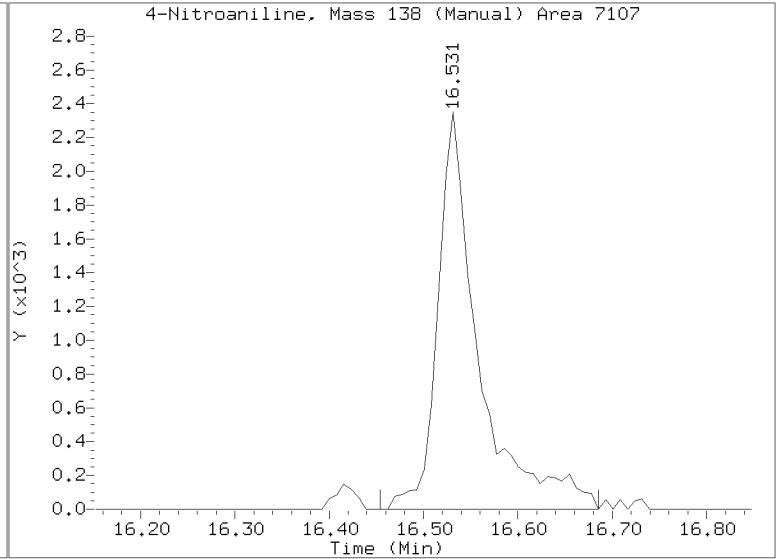
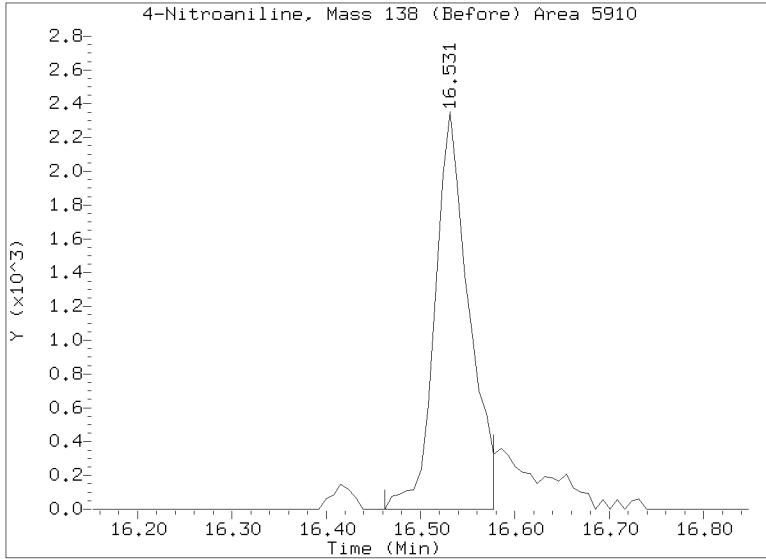
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM



Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123068.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-LCV4

Injection Time: 00:42

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7483010		-2.8	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.1939320		-3.7	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.5084730		3.3	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5429450		-0.4	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4875080		1.4	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.4279910		-0.8	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6198655		-22.6	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3945302		-5.4	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2737810		-2.6	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4453238		-17.5	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.8084773		1.5	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.2838410		-6.9	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3148268		-6.2	+/-50
Isophorone	A	0.50000	0.5	0.4275424	0.3868443		-9.5	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1943328		-5.4	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3420102		-2.3	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3291838		-1.0	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2833035		-4.0	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3120949		-2.2	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9556600		-2.9	+/-50
Benzoic acid	A	2.0000	0.4	0.1508906	0.0477355		-77.6	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3606975		-11.1	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1512812		-4.5	+/-50
4-Chloro-3-Methylphenol	A	1.0000	0.9	0.2785027	0.2644514		-5.0	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6723759		-6.9	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0415226		-86.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2917426		-12.6	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.8	0.3853234	0.3090024		-19.8	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1004810		-3.8	+/-50
2-Nitroaniline	A	1.0000	1.0	0.3007956	0.2969377		-1.3	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.7372870		-0.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.1181020		-0.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2221514		-12.7	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0722410		-0.9	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: NT14

Calibration: FL00066

Lab File ID: NT1422123068.D

Calibration Date: 12/30/2022

Sequence: SKL0355

Injection Date: 01/01/23

Lab Sample ID: SKL0355-LCV4

Injection Time: 00:42

Sequence Name: ABN 0.5

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2625893		-15.1	+/-50
2,4-Dinitrophenol	A	2.0000	0.01	0.1831718	0.0013321		-99.4	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5992840		-1.4	+/-50
4-Nitrophenol	A	1.0000	0.7	0.1384031	0.0995818		-32.8	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2717615		-22.2	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6845370		-2.4	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.8658081		2.5	+/-50
Diethyl phthalate	A	0.50000	0.6	1.5332690	1.7536520		14.4	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.3098778		-16.9	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.4	0.1530278	0.0321223		-80.9	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7021852		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2459767		-5.4	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2779293		-2.6	+/-50
Pentachlorophenol	A	1.0000	0.1	0.1128364	0.0128045		-89.6	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0078070		-3.4	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9654373		-3.0	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.9011810		-6.4	+/-50
Di-n-Butylphthalate	A	0.50000	0.5	1.0394700	1.0429660		-4.2	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.2156890		-5.6	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.3030620		-3.8	+/-50
Butylbenzylphthalate	A	0.50000	0.5	0.4650792	0.5379980		5.2	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.2615680		4.1	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.6	0.3709370	0.4058052		9.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1447600		0.02	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4563126		2.7	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9409763		-2.0	+/-50
Benzofluoranthenes, Total	A	1.0000	1.1	1.2153330	1.3693140		12.7	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.1069130		5.9	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.6834033		-42.5	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.5956232		-41.0	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.2	0.9951726	0.4792214		-51.8	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6579608		-5.2	+/-50
2-Fluorophenol	A	0.75000	0.732	1.2814900	1.2512690		-2.4	+/-50
Phenol-d5	A	0.75000	0.661	1.5836890	1.3948320		-11.9	+/-50

* Values outside of QC limits



**LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>FL00066</u>
Lab File ID:	<u>NT1422123068.D</u>	Calibration Date:	<u>12/30/2022</u>
Sequence:	<u>SKL0355</u>	Injection Date:	<u>01/01/23</u>
Lab Sample ID:	<u>SKL0355-LCV4</u>	Injection Time:	<u>00:42</u>
Sequence Name:	<u>ABN 0.5</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.698	1.3300510	1.2370580		-7.0	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.480	0.9090592	0.8729895		-4.0	+/-50
Nitrobenzene-d5	A	0.50000	0.483	0.3377760	0.3263357		-3.4	+/-50
2-Fluorobiphenyl	A	0.50000	0.472	1.3448860	1.2695780		-5.6	+/-50
2,4,6-Tribromophenol	A	0.75000	0.538	0.1844845	0.1345265		-28.3	+/-50
p-Terphenyl-d14	A	0.50000	0.451	0.9601842	0.8667715		-9.7	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20221230C.B\NT1422123068.D

Date: 01-JAN-2023 00:42

Client ID:

Sample Info: SKL0365-LCV4

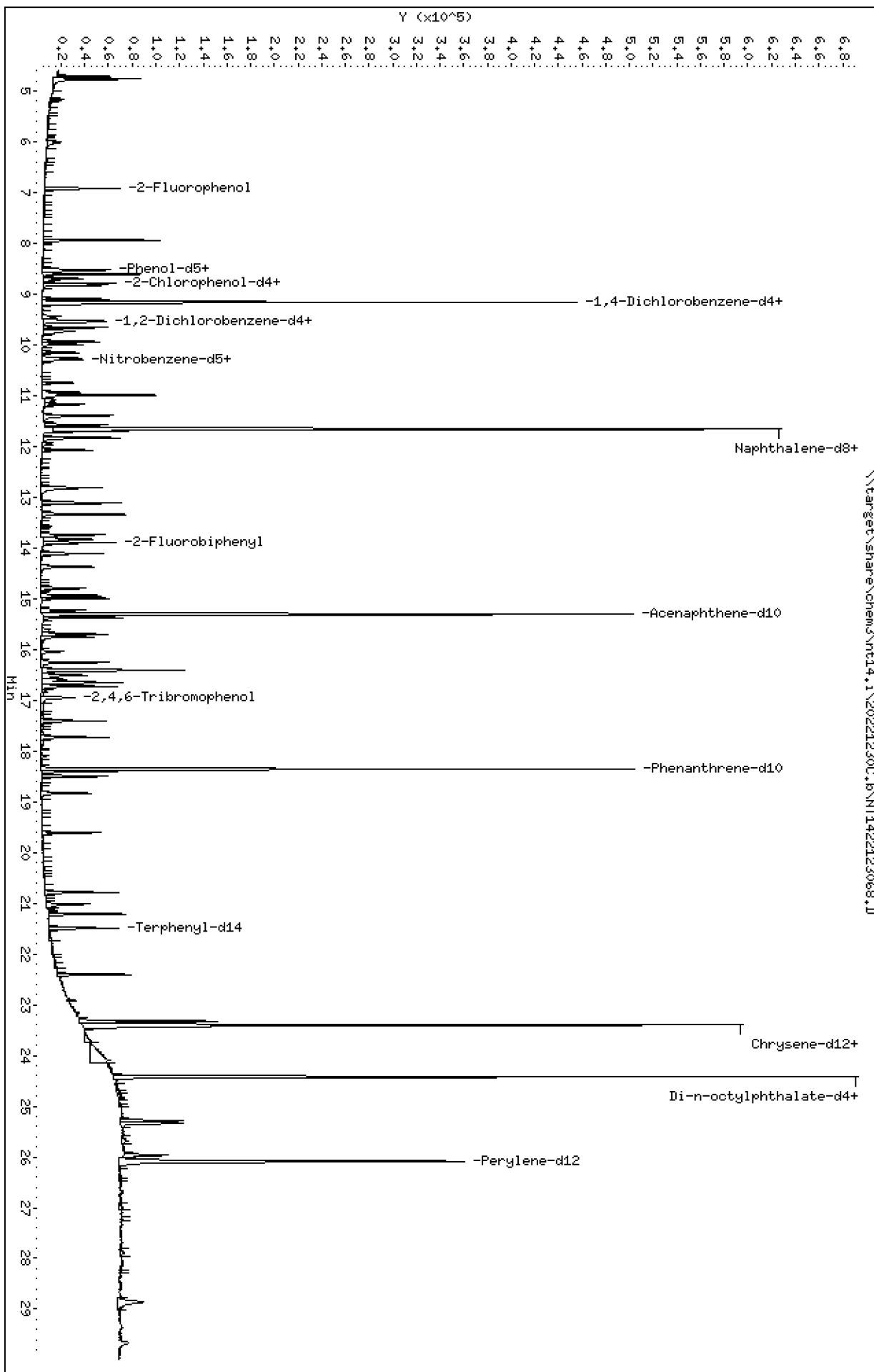
Column phase: ZB-5msi

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

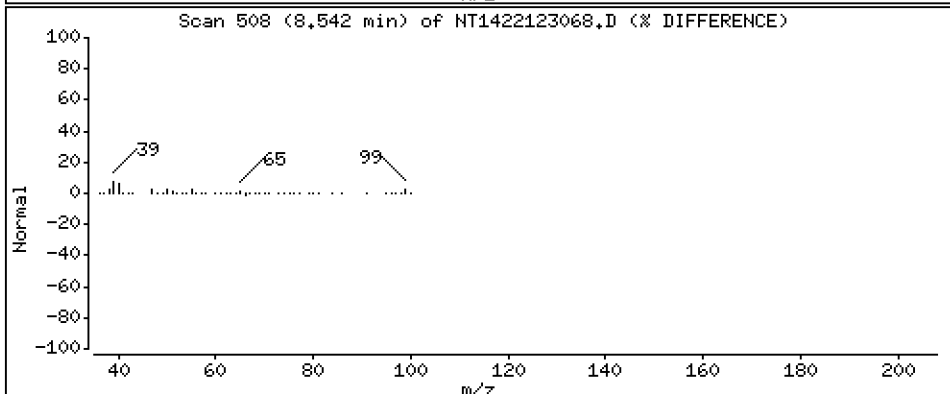
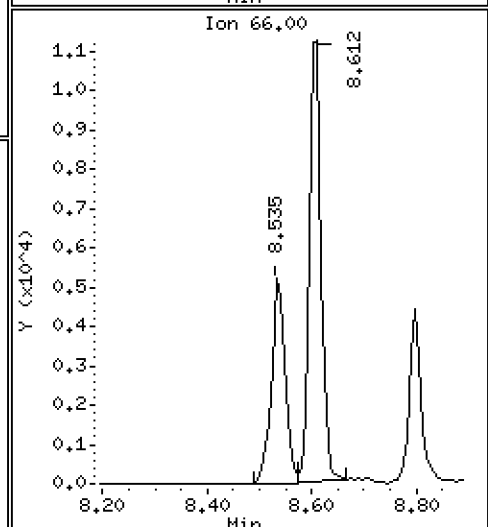
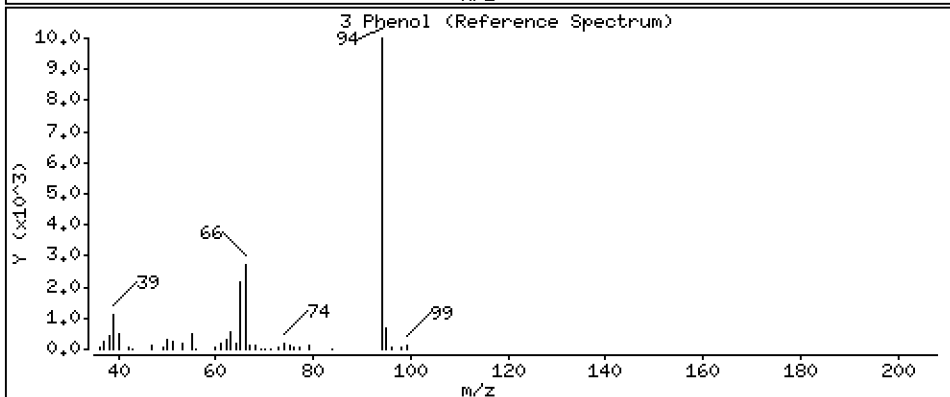
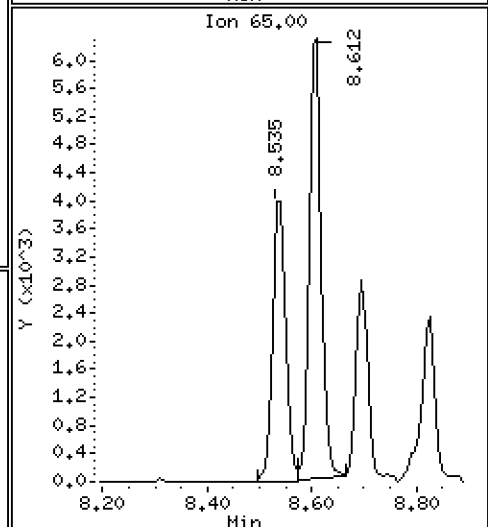
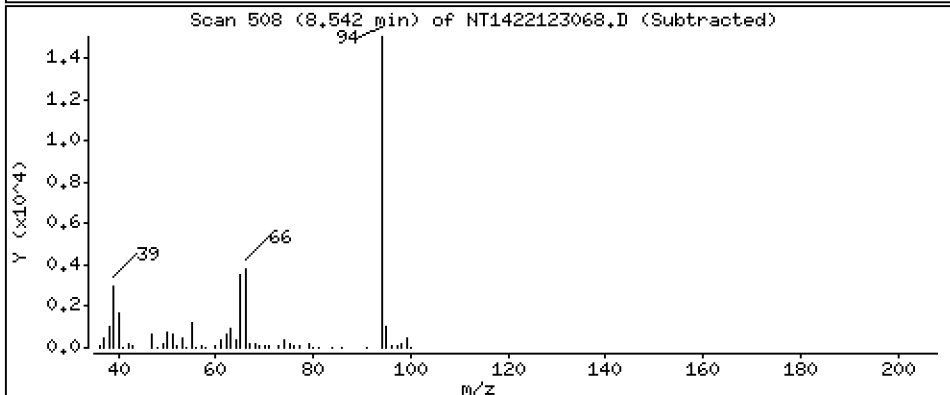
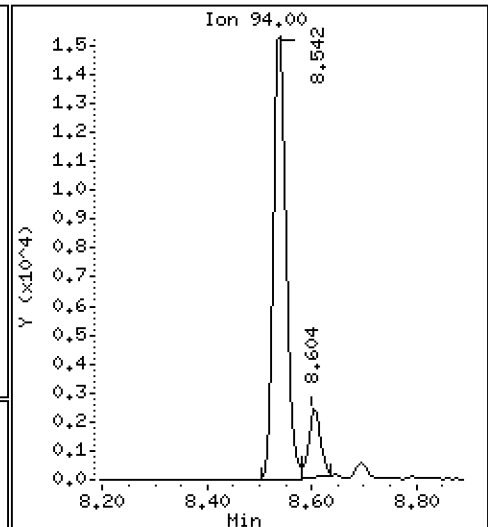
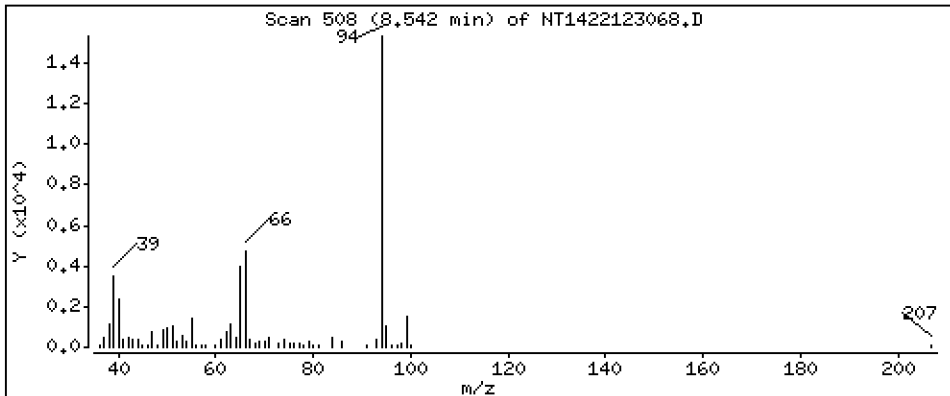
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

3 Phenol

Concentration: 0,4858 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

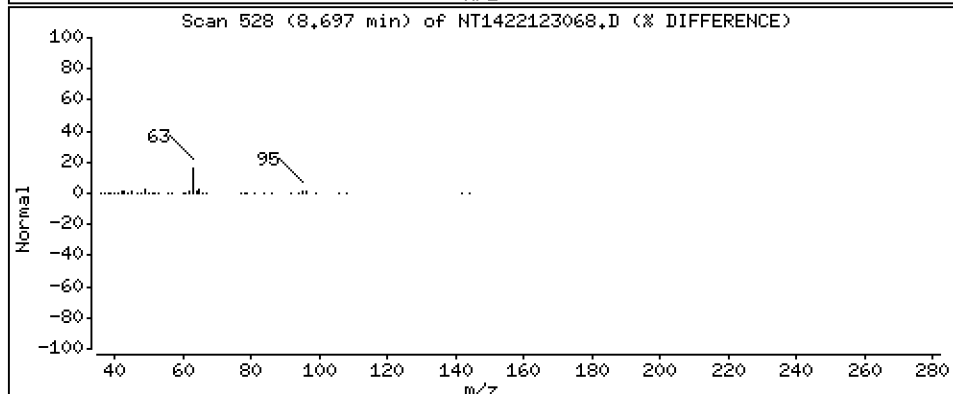
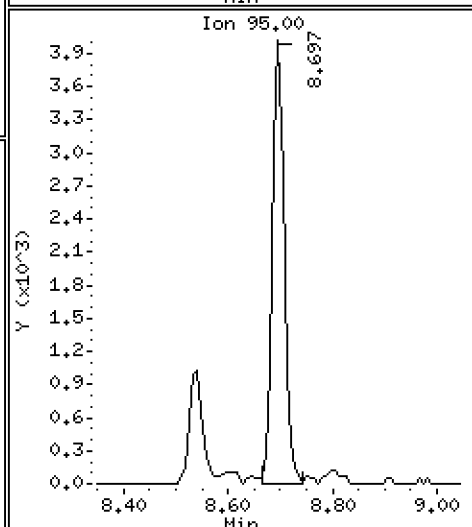
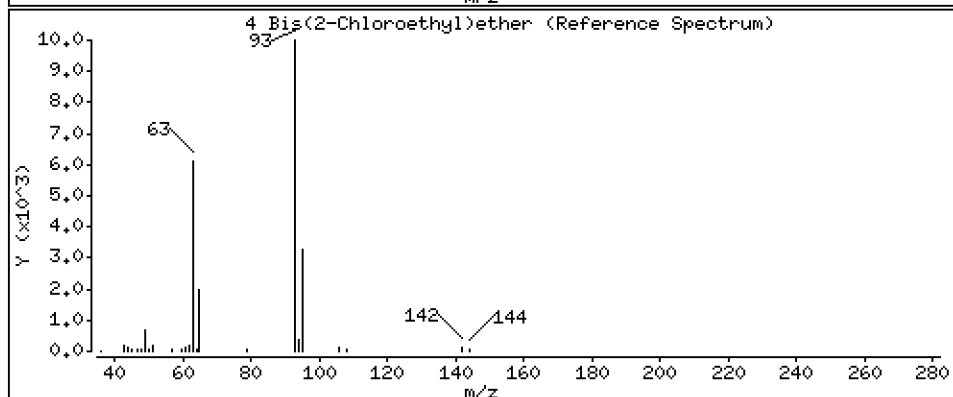
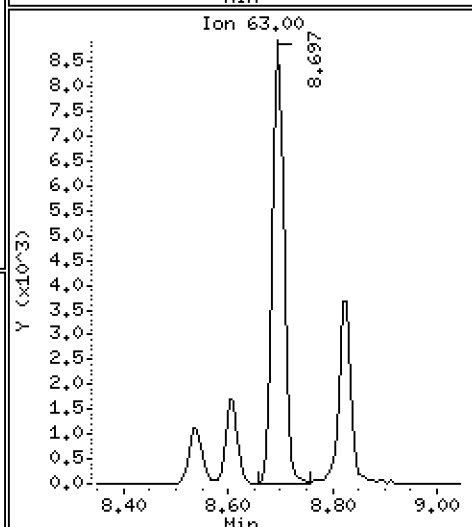
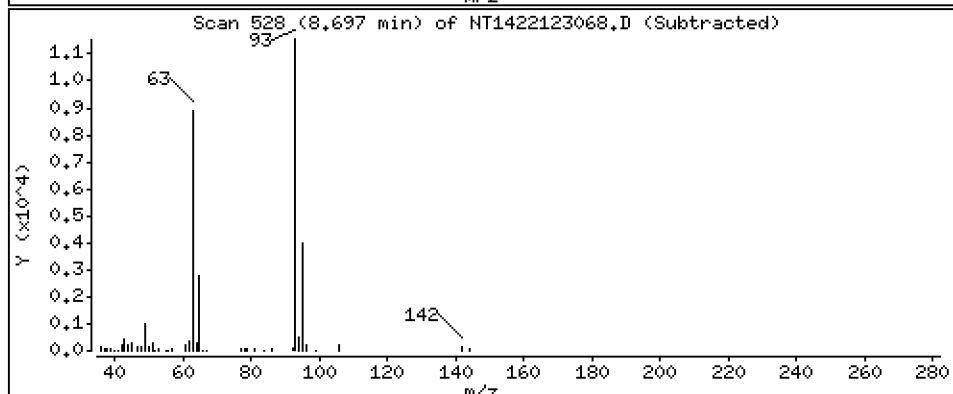
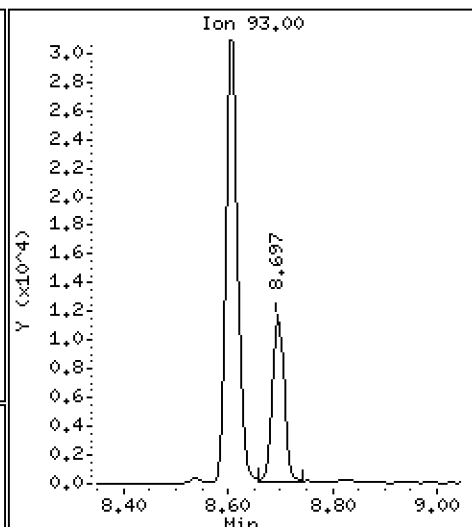
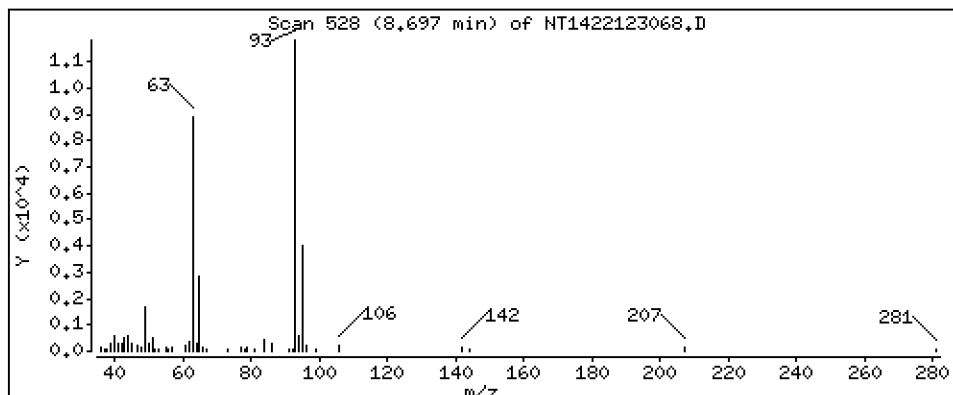
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

4 Bis(2-Chloroethyl)ether

Concentration: 0,4816 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

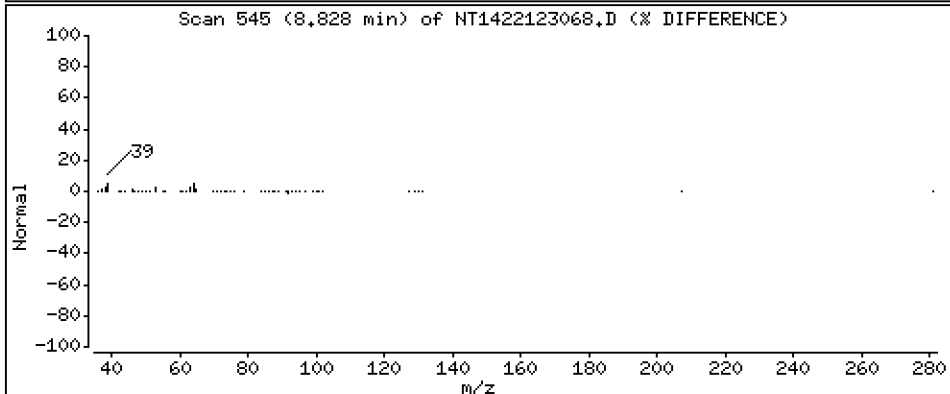
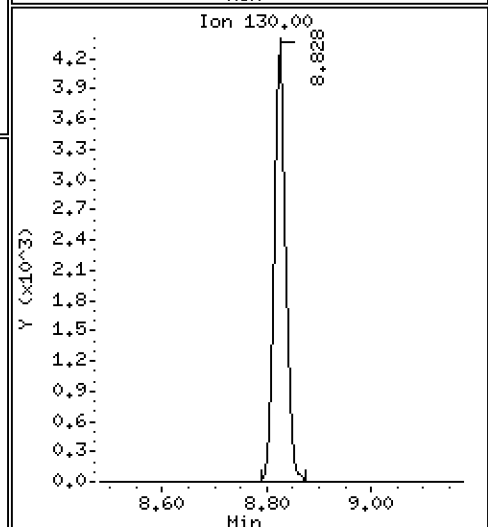
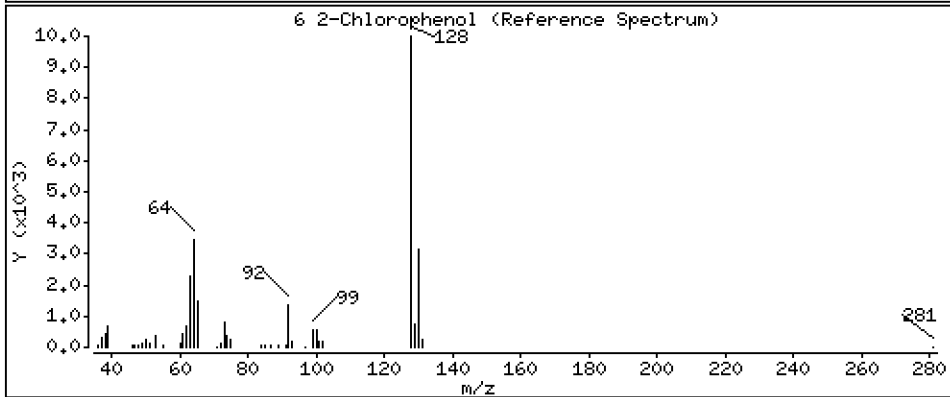
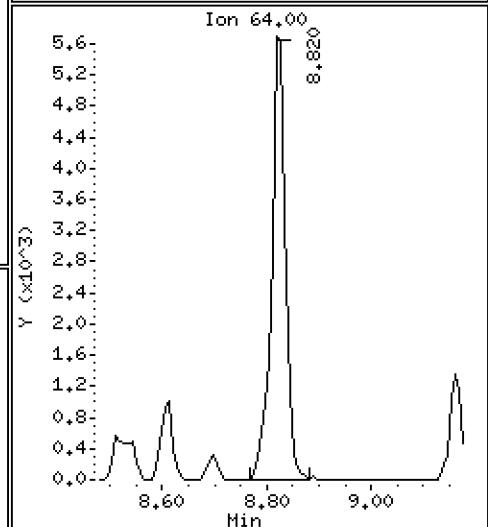
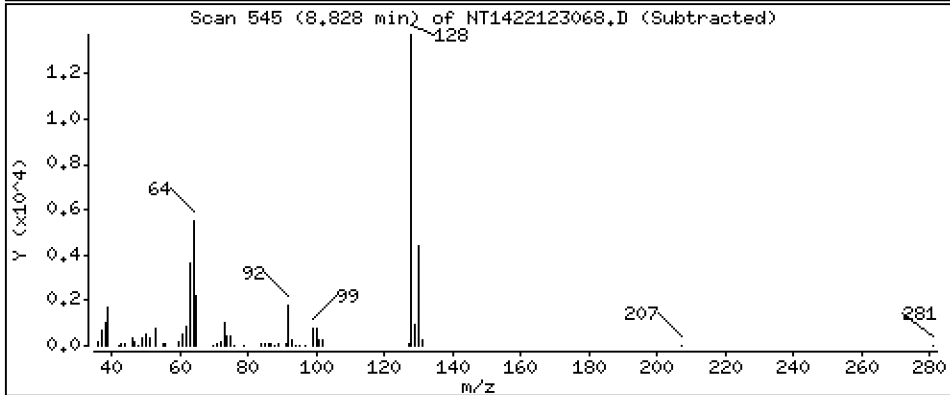
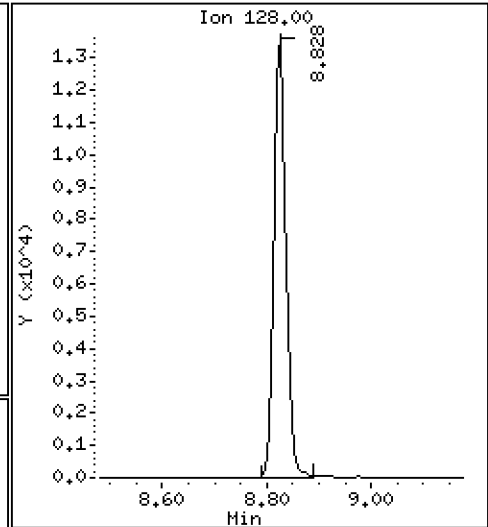
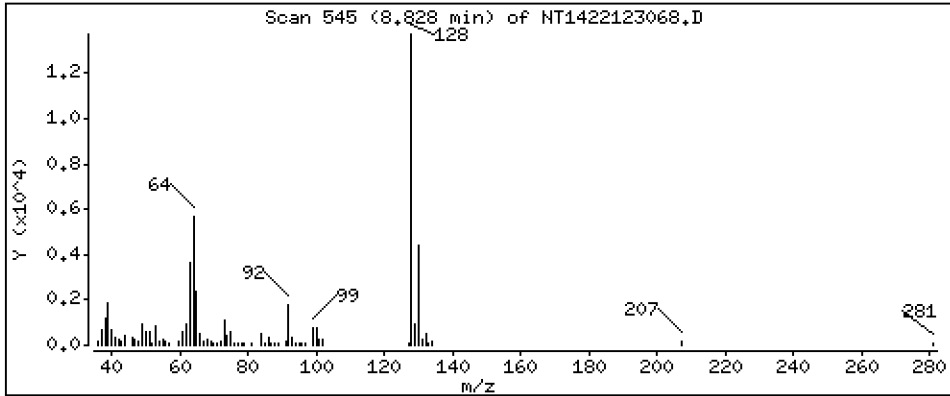
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

6 2-Chlorophenol

Concentration: 0,5163 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

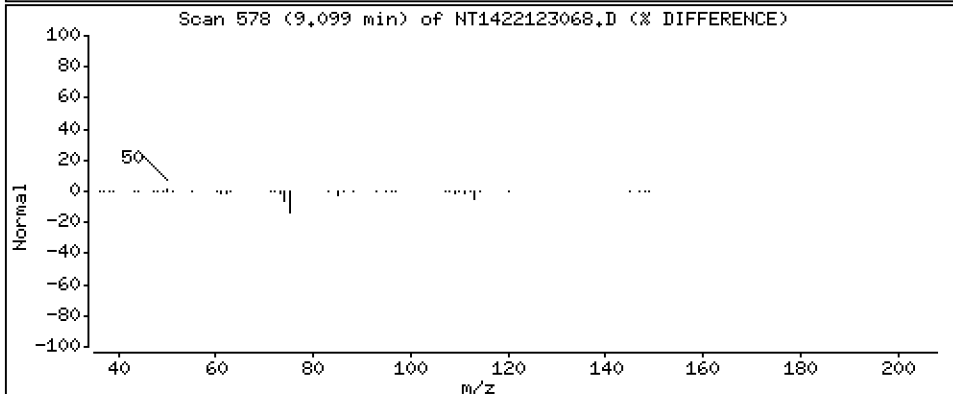
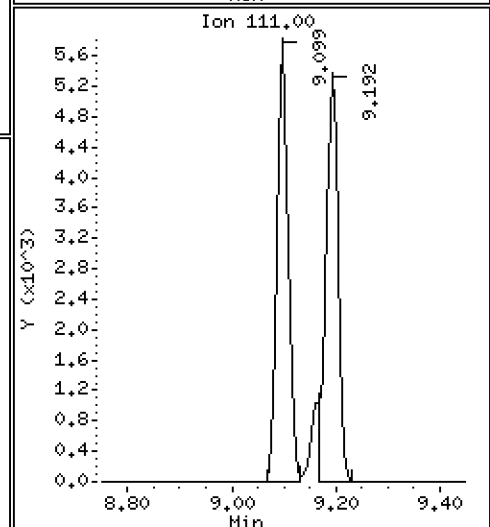
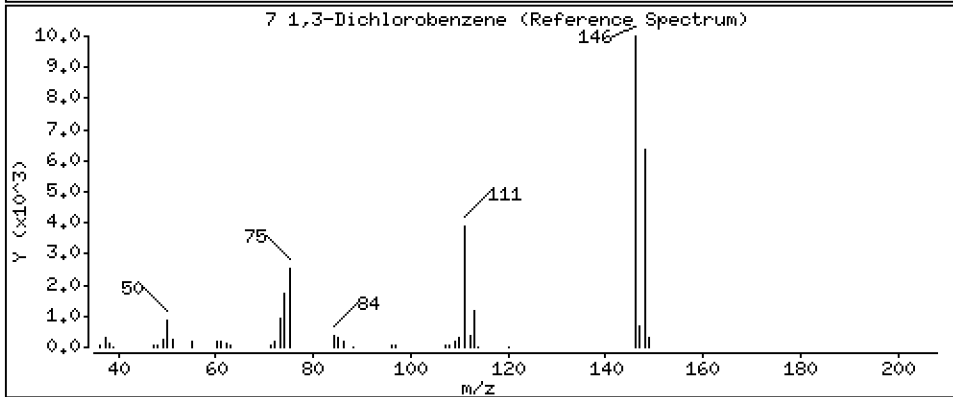
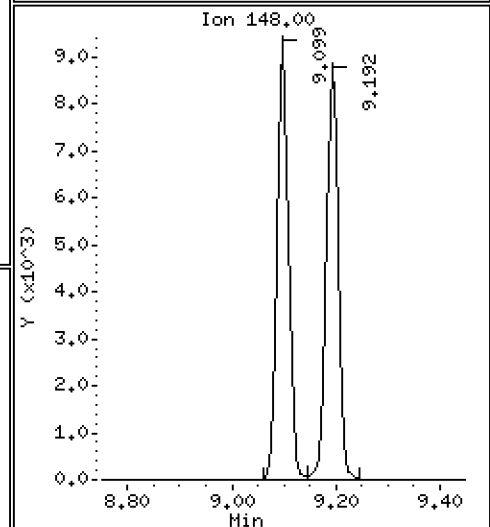
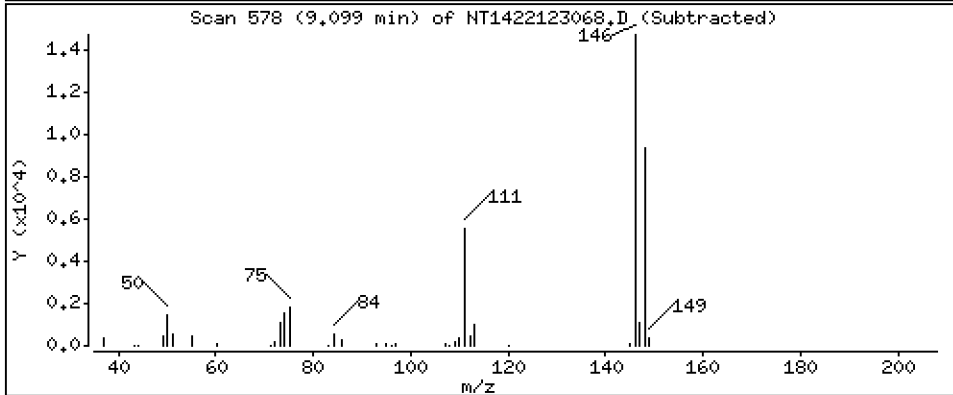
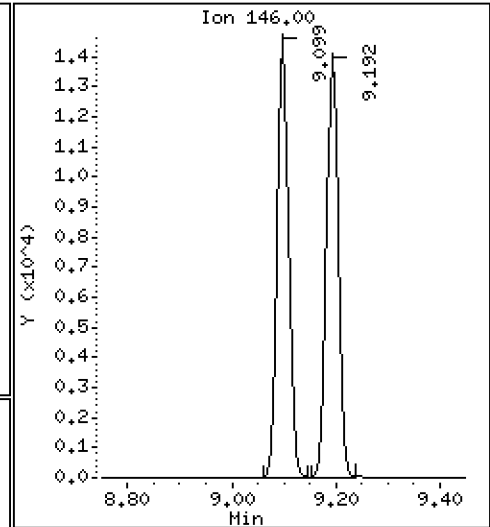
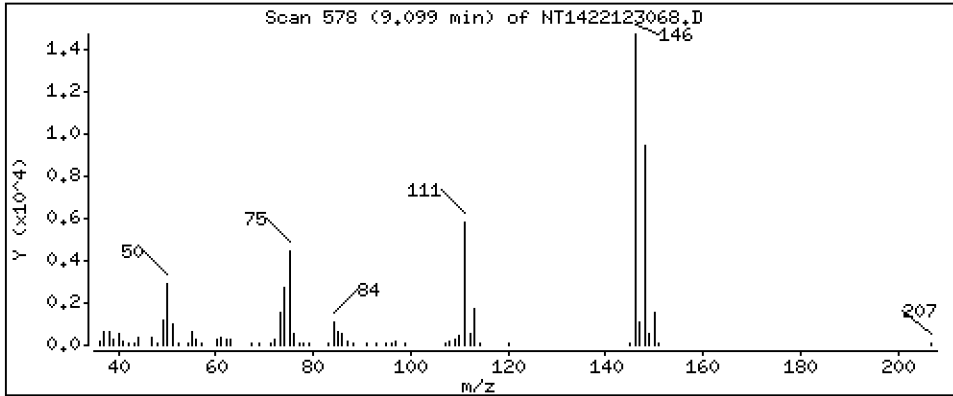
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

7 1,3-Dichlorobenzene

Concentration: 0.4981 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

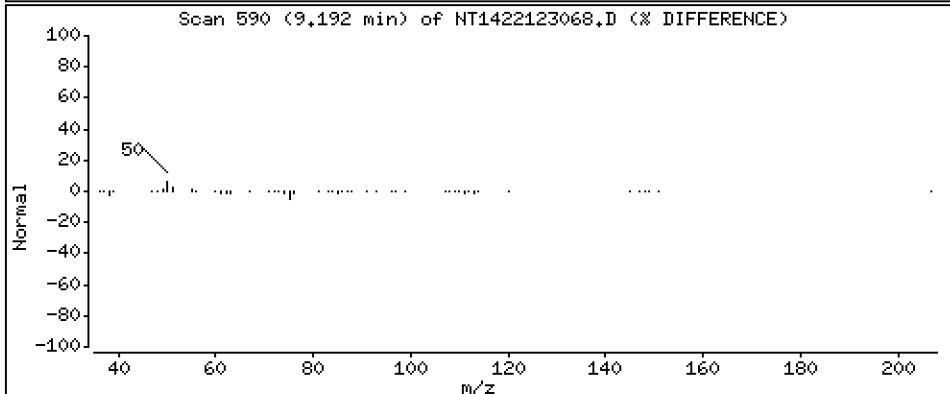
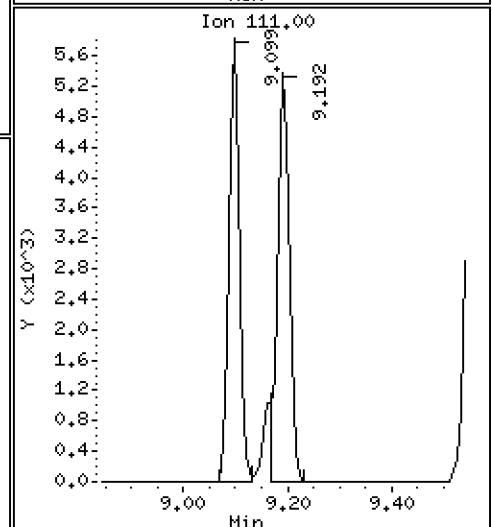
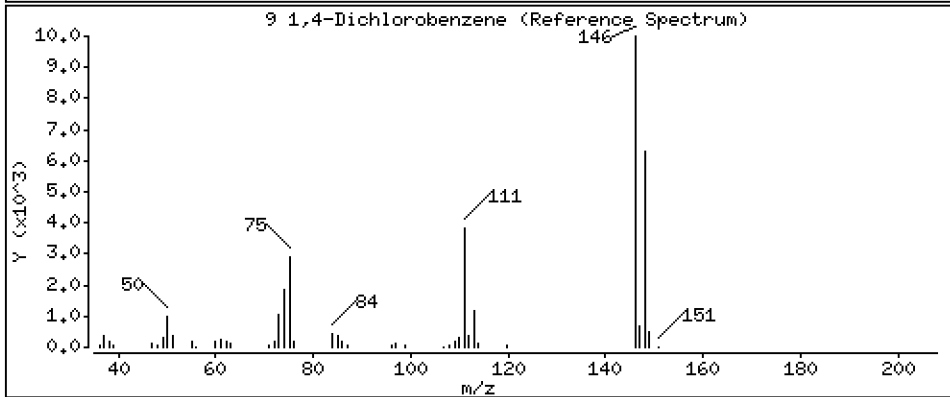
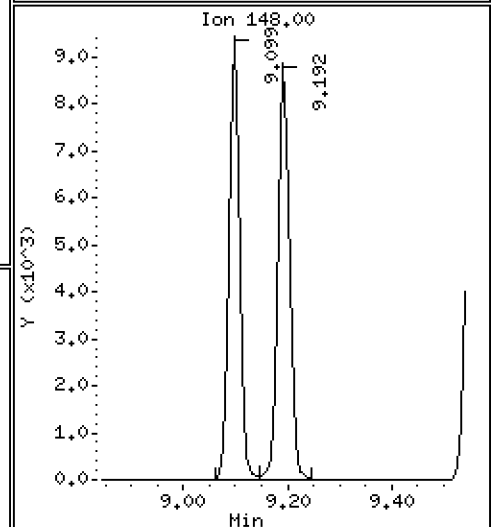
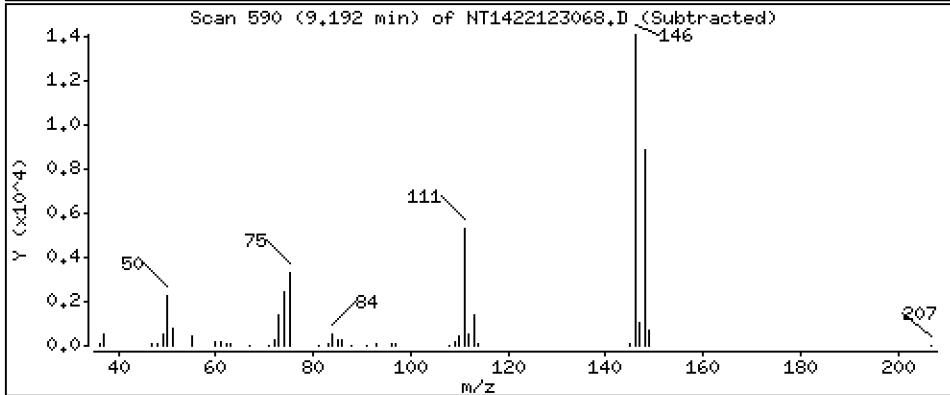
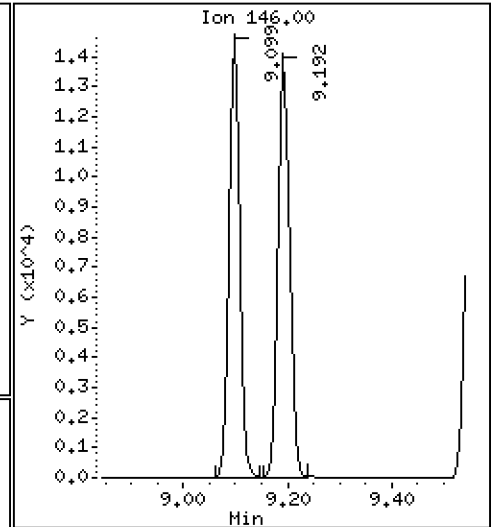
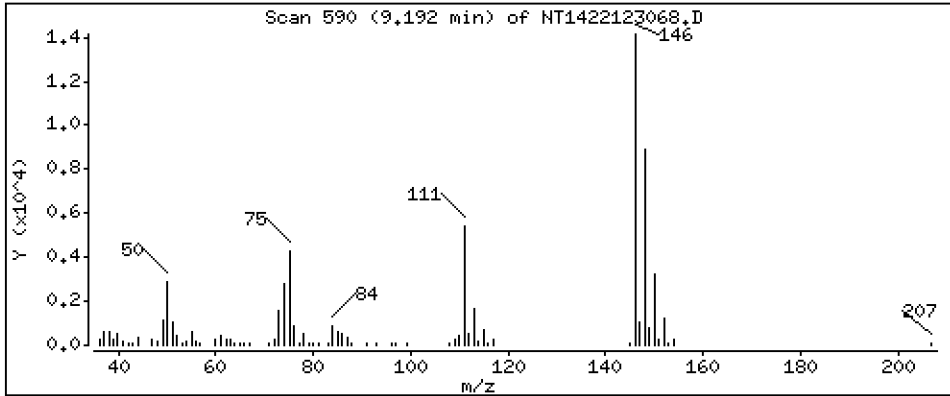
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

9 1,4-Dichlorobenzene

Concentration: 0.5068 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

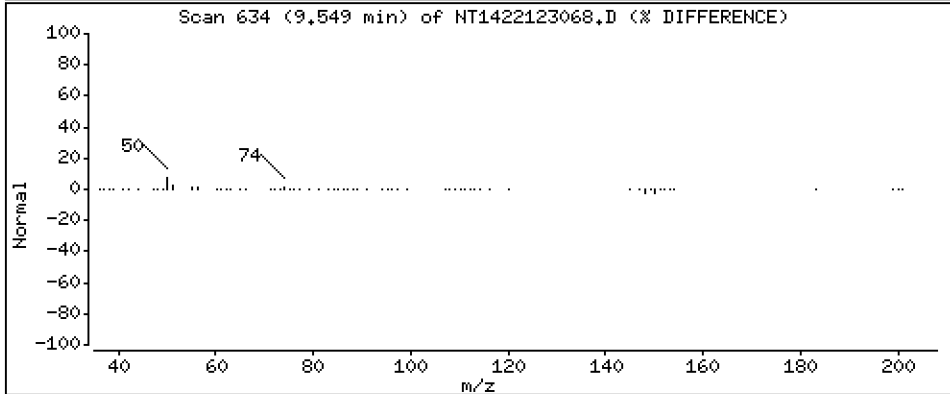
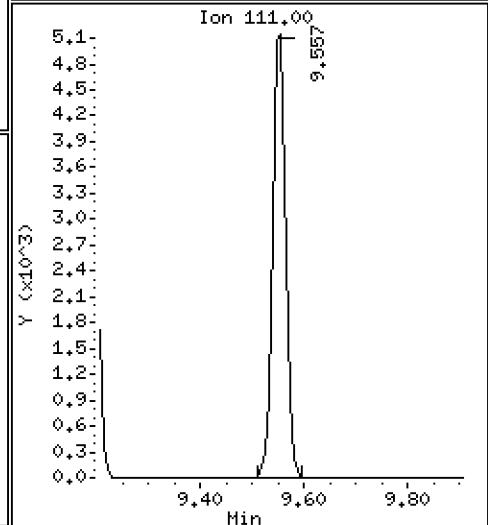
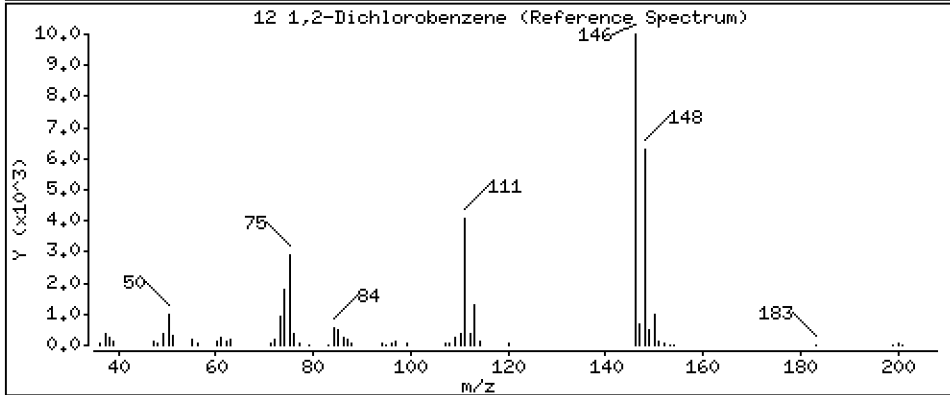
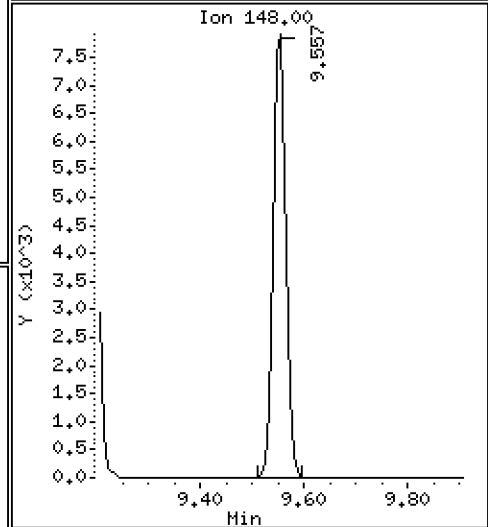
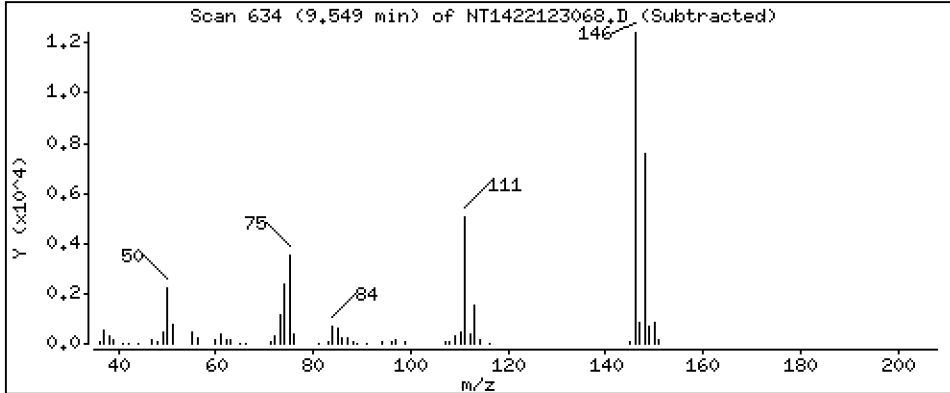
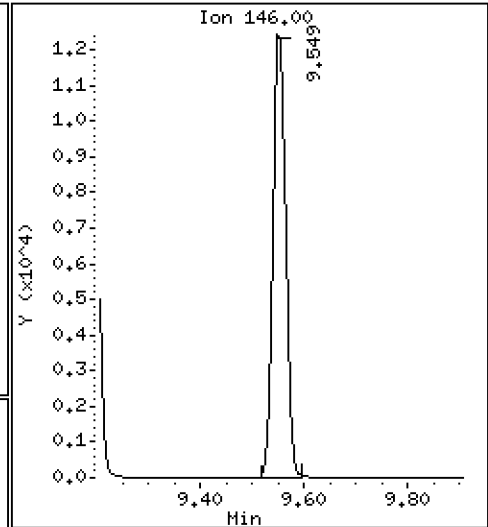
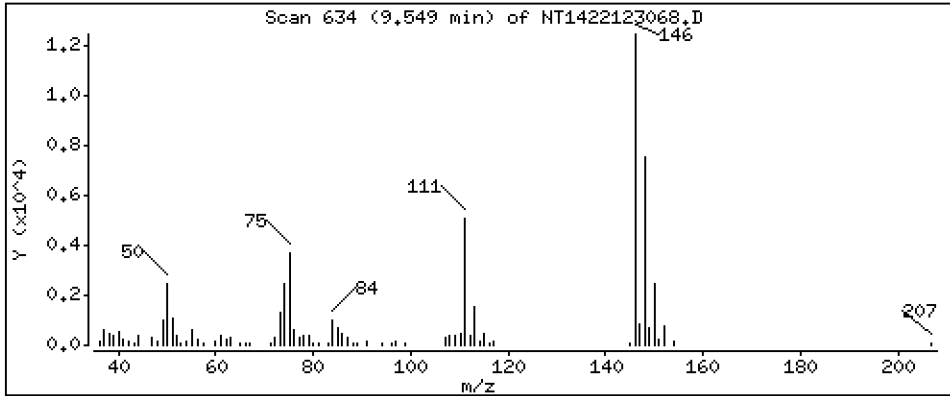
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

12 1,2-Dichlorobenzene

Concentration: 0.4961 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

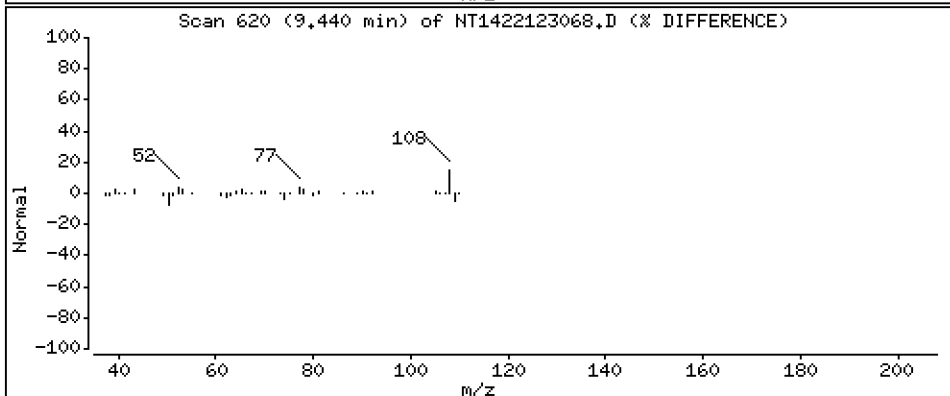
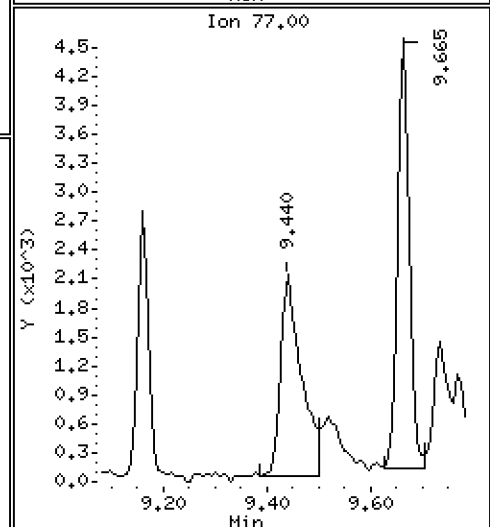
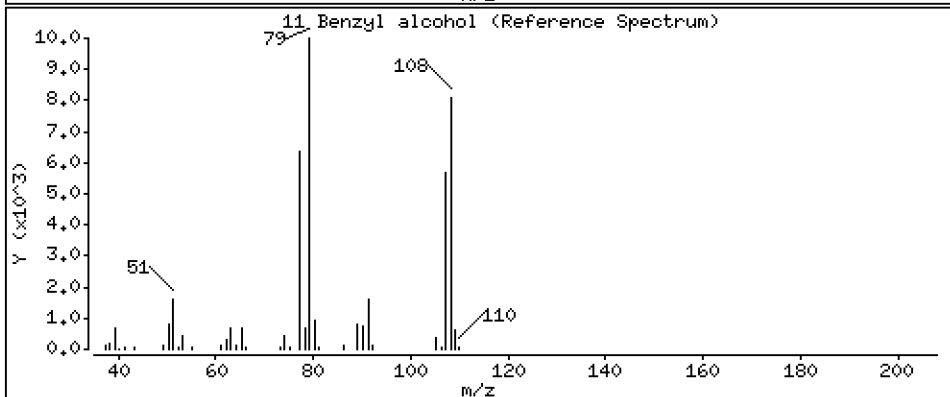
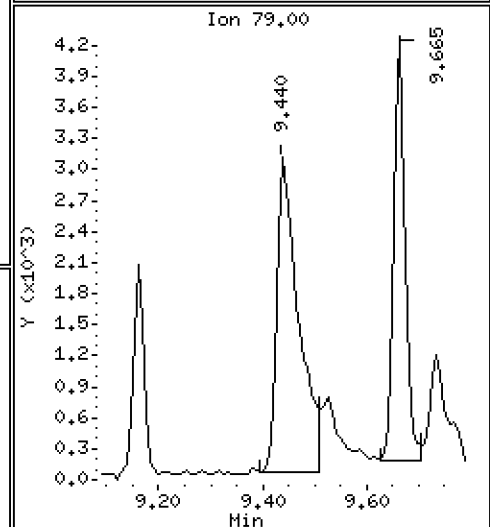
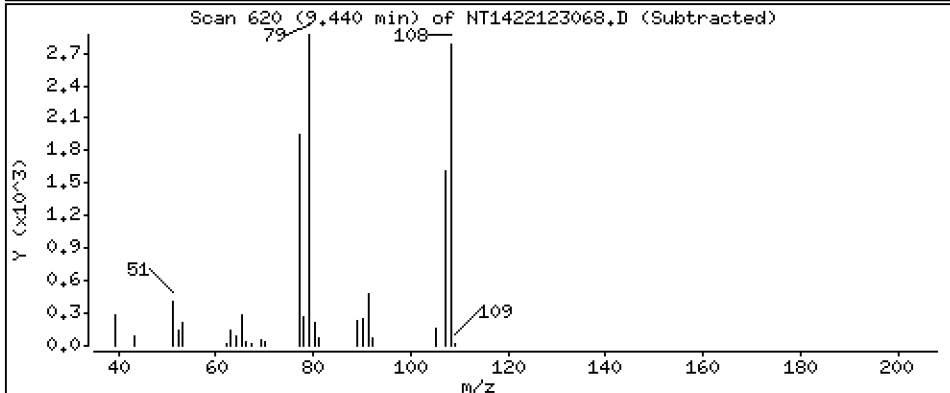
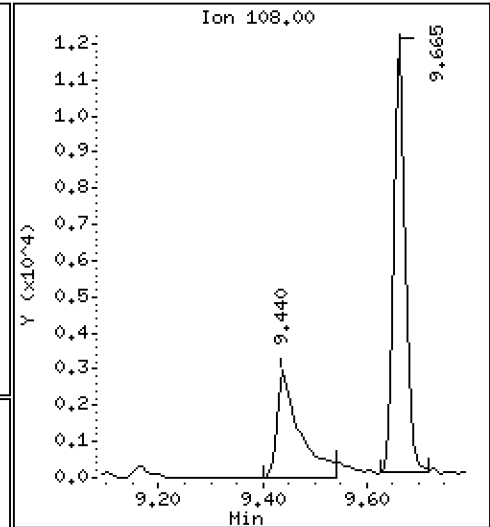
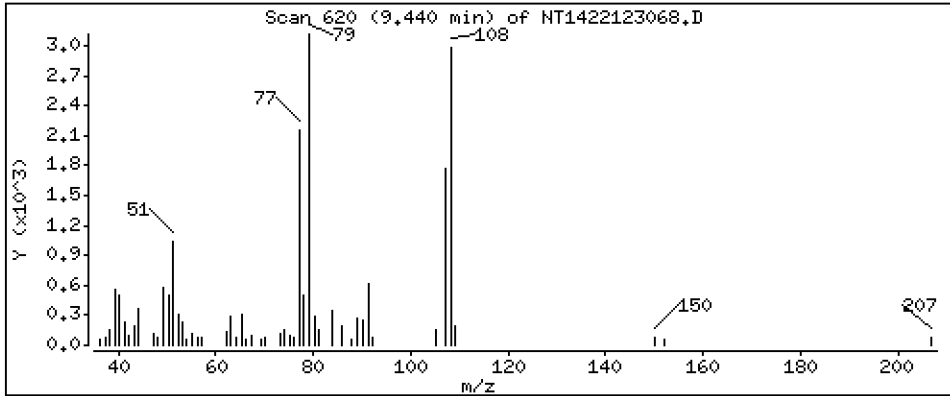
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

11 Benzyl alcohol

Concentration: 0.3869 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

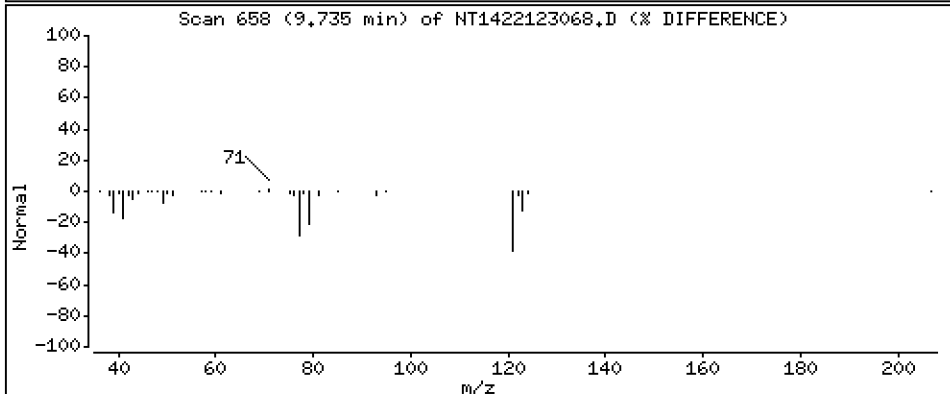
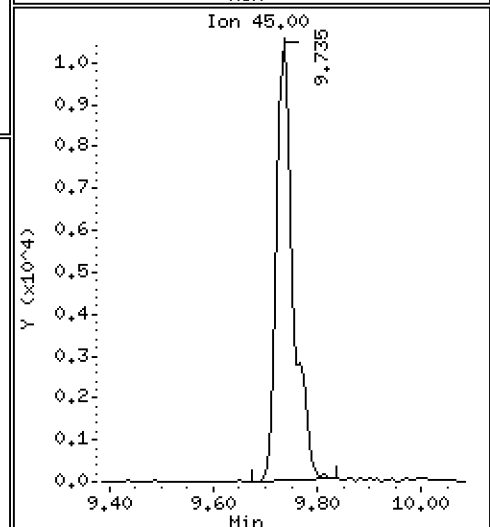
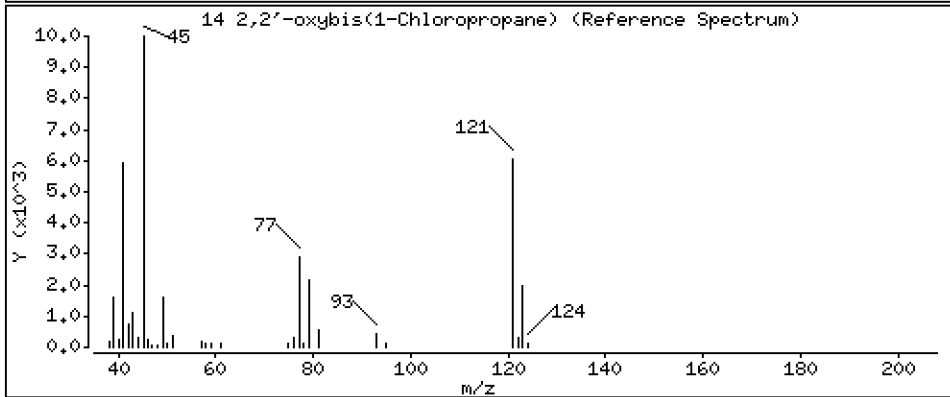
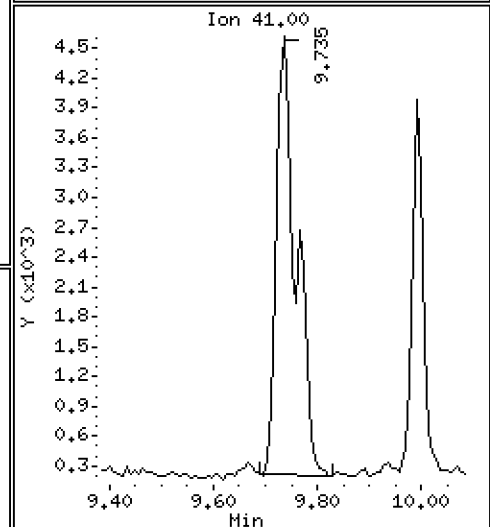
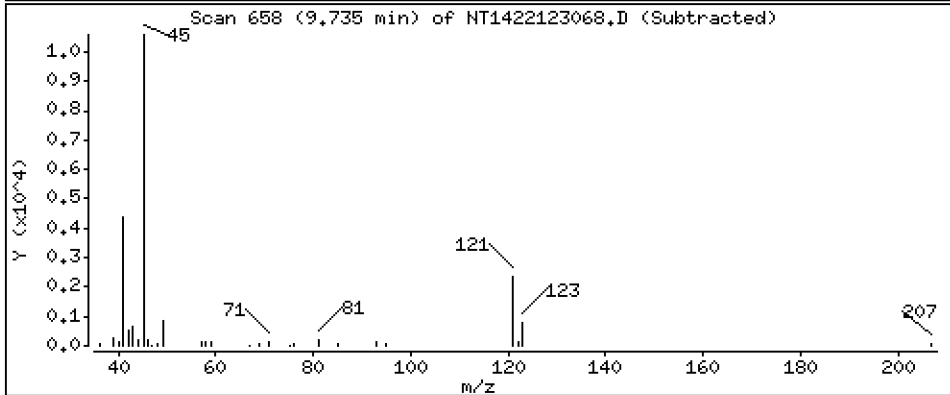
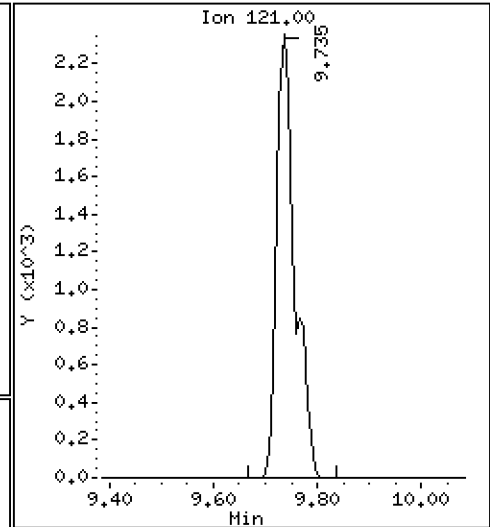
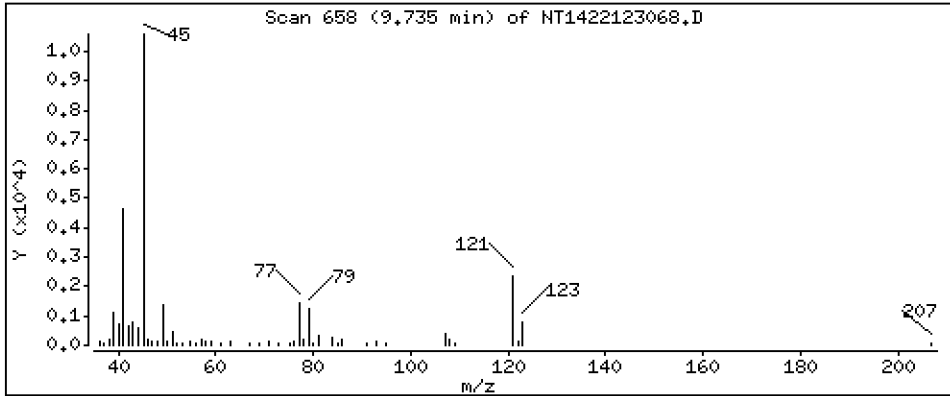
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,4728 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

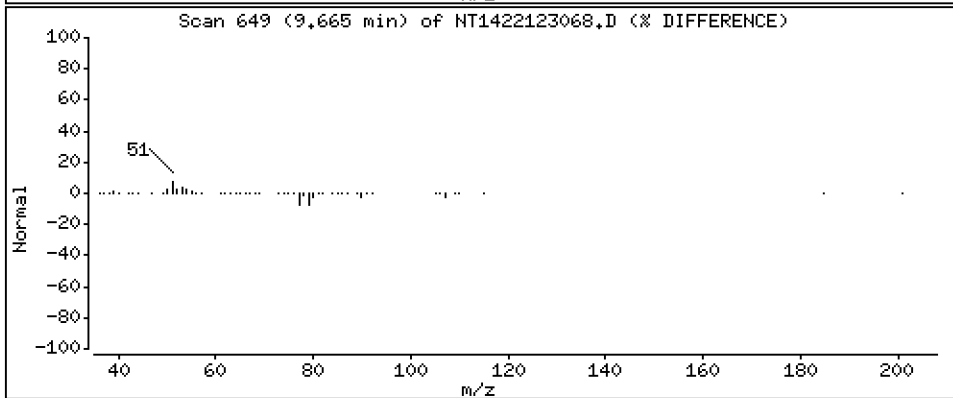
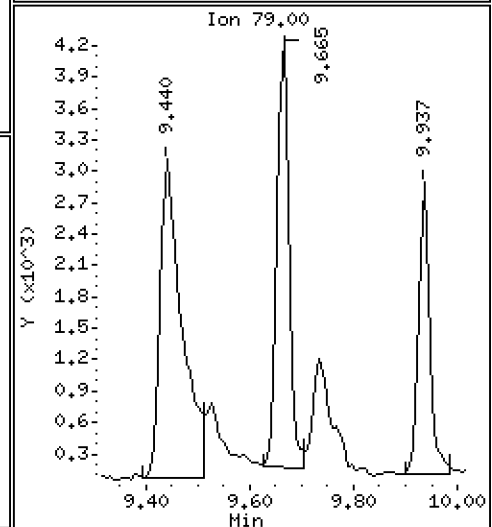
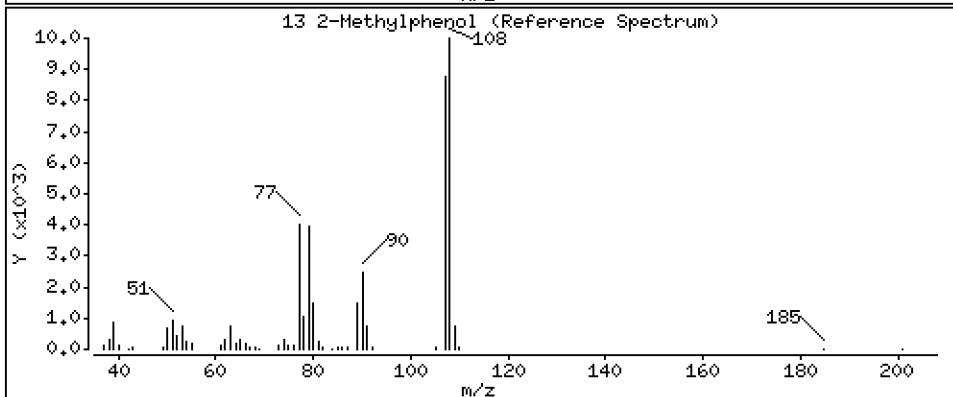
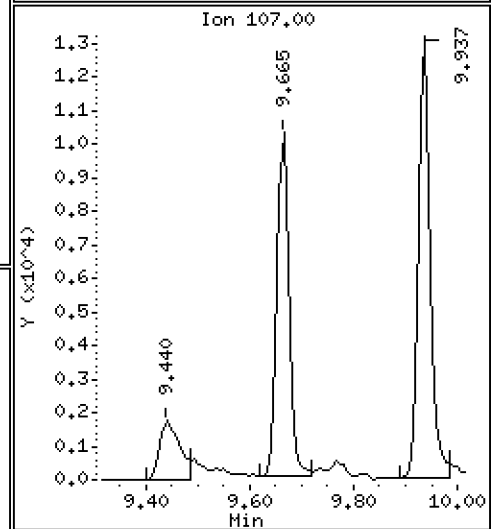
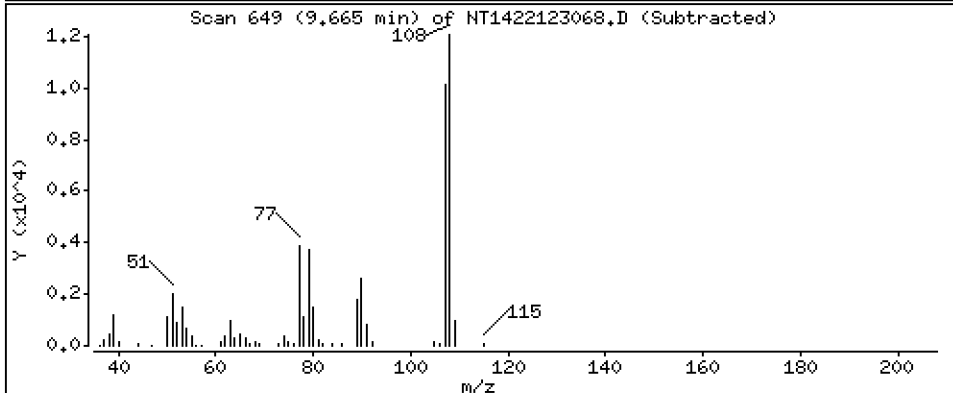
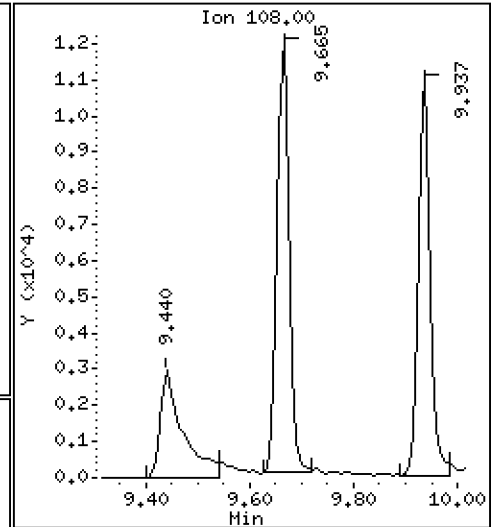
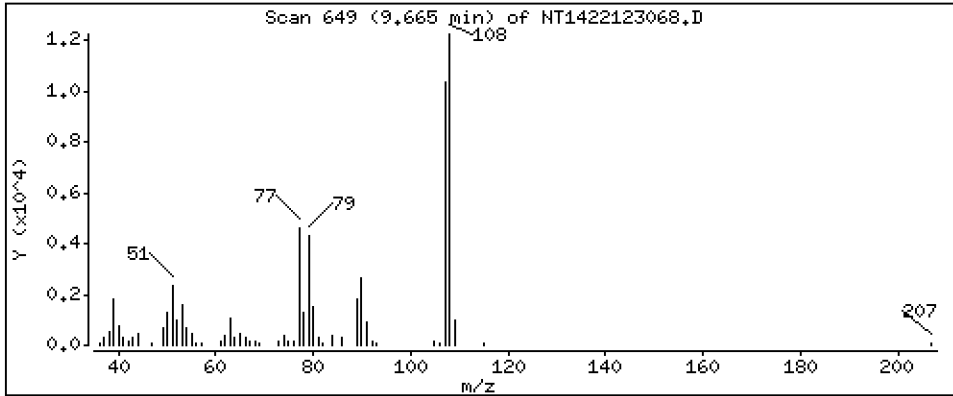
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

Concentration: 0.4871 ug/mL

13 2-Methylphenol



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

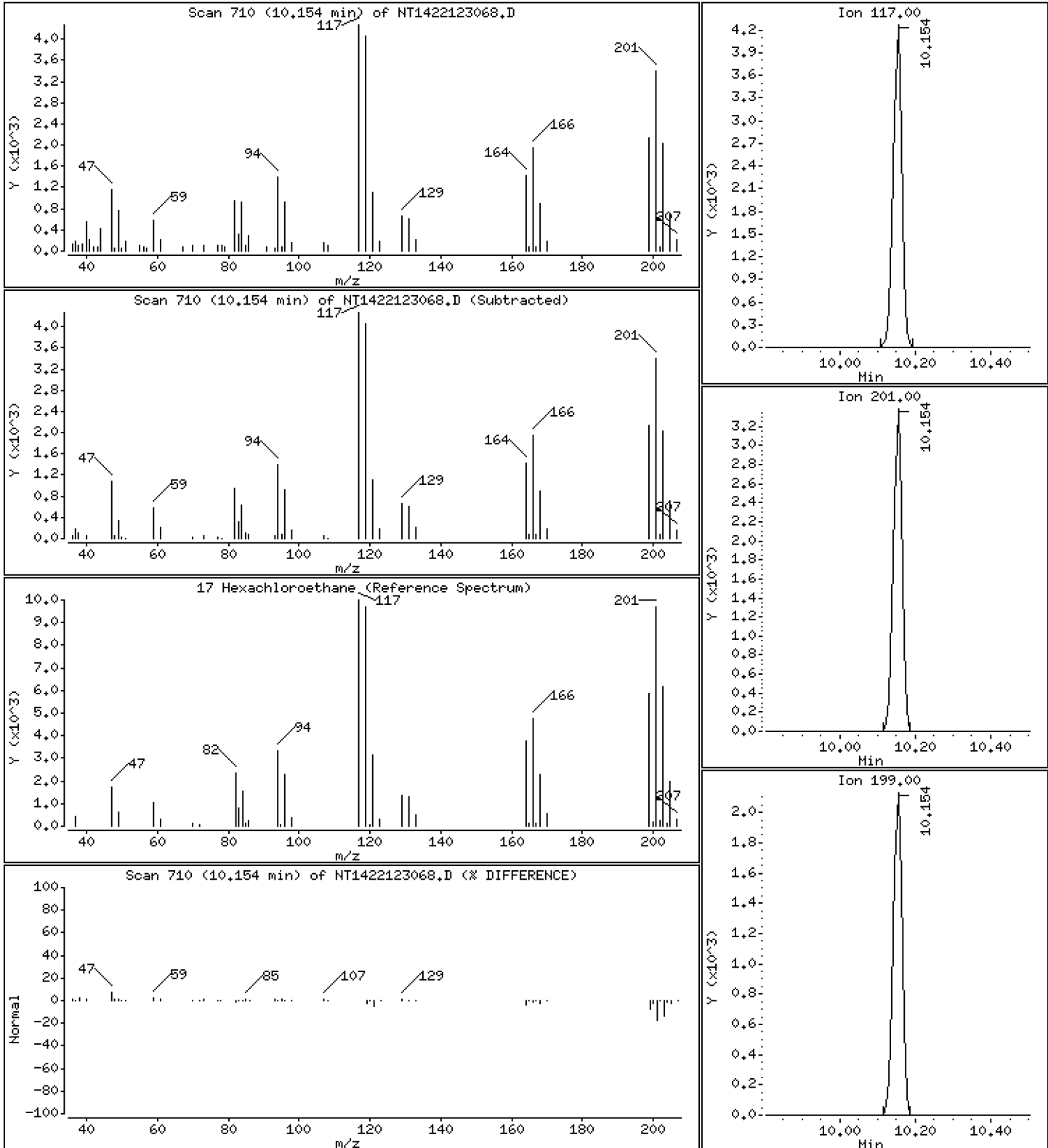
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

17 Hexachloroethane

Concentration: 0,4126 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

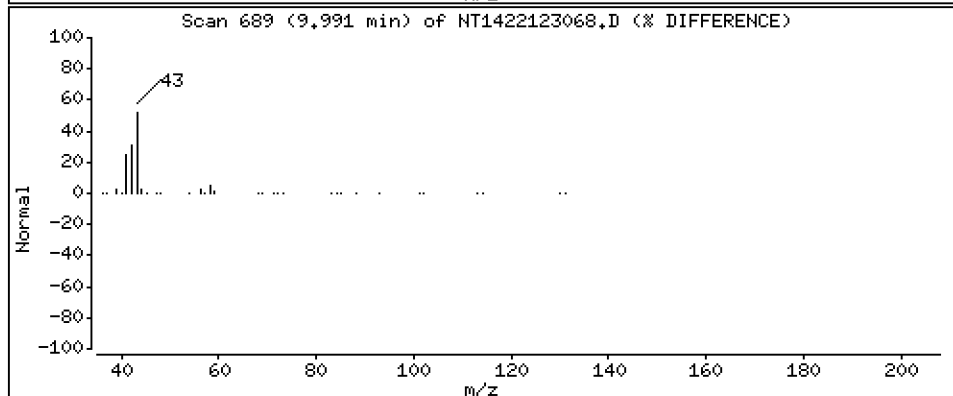
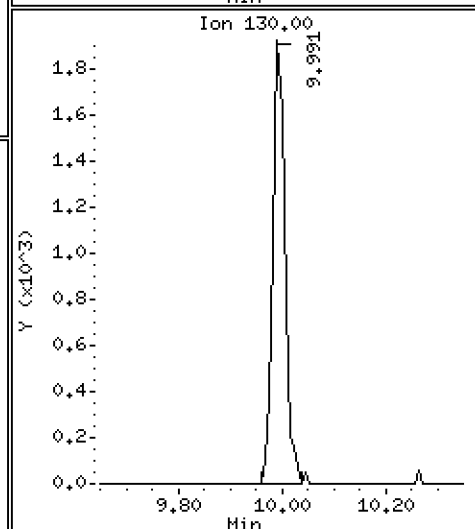
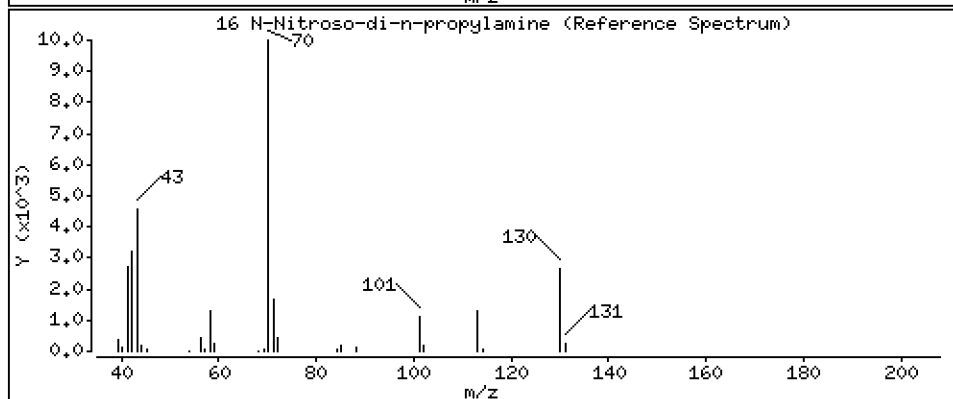
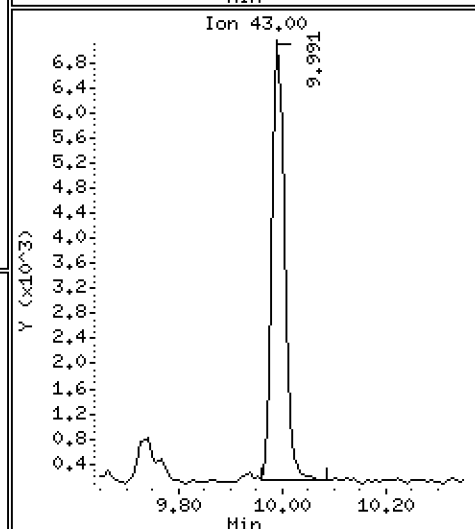
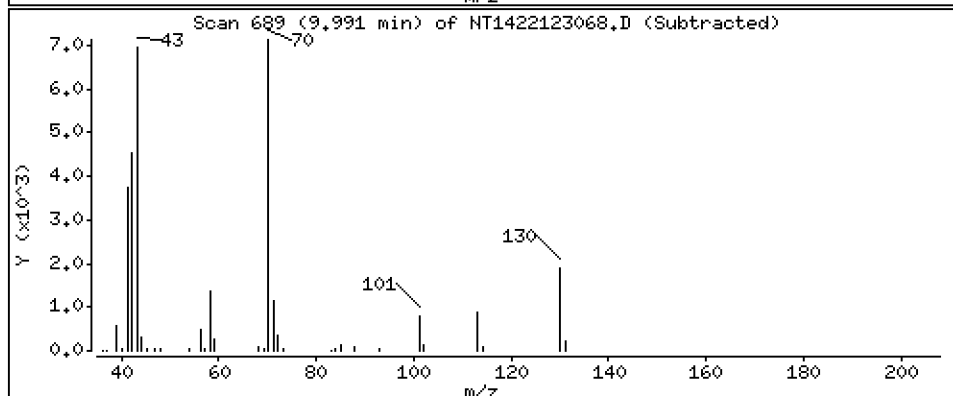
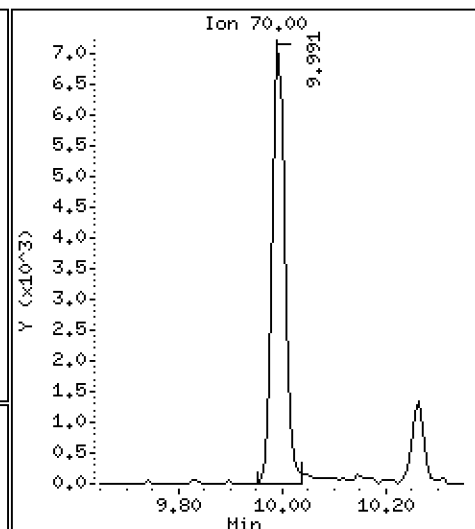
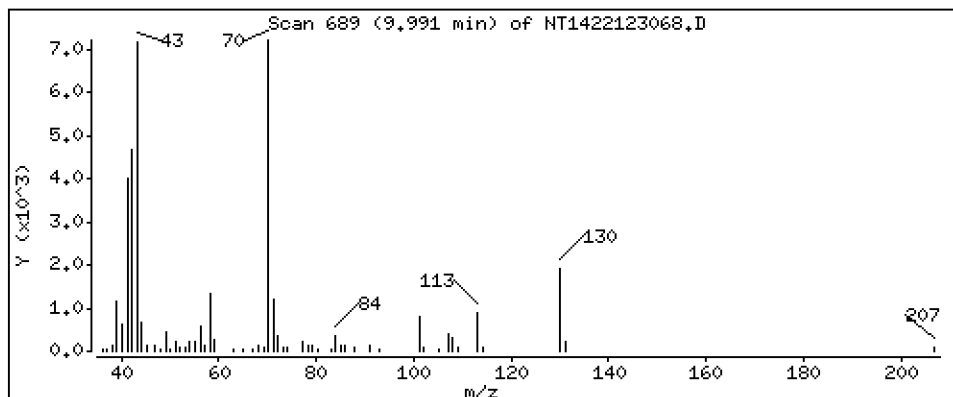
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

16 N-Nitroso-di-n-propylamine

Concentration: 0,5075 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

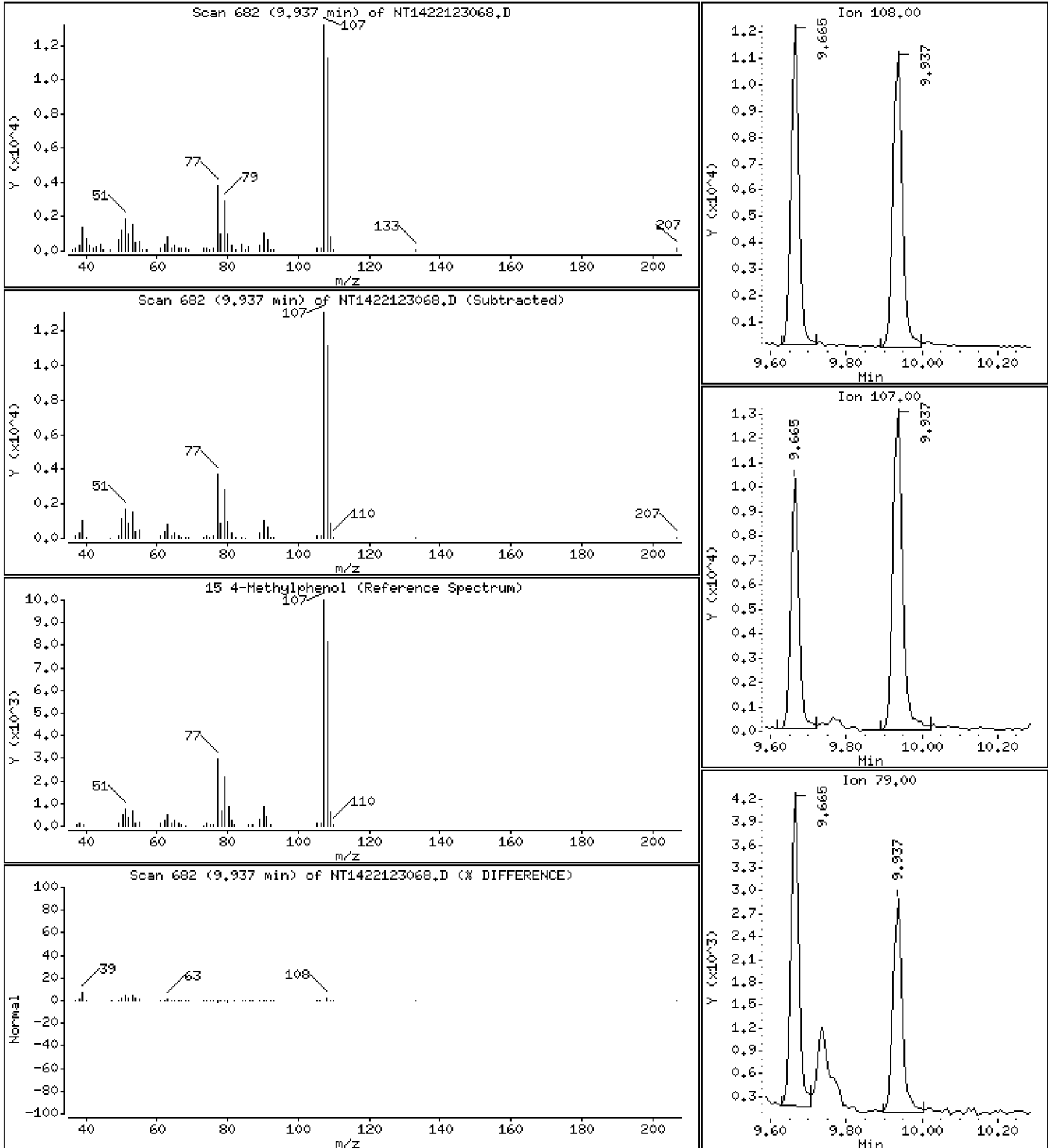
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

15 4-Methylphenol

Concentration: 0.4654 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

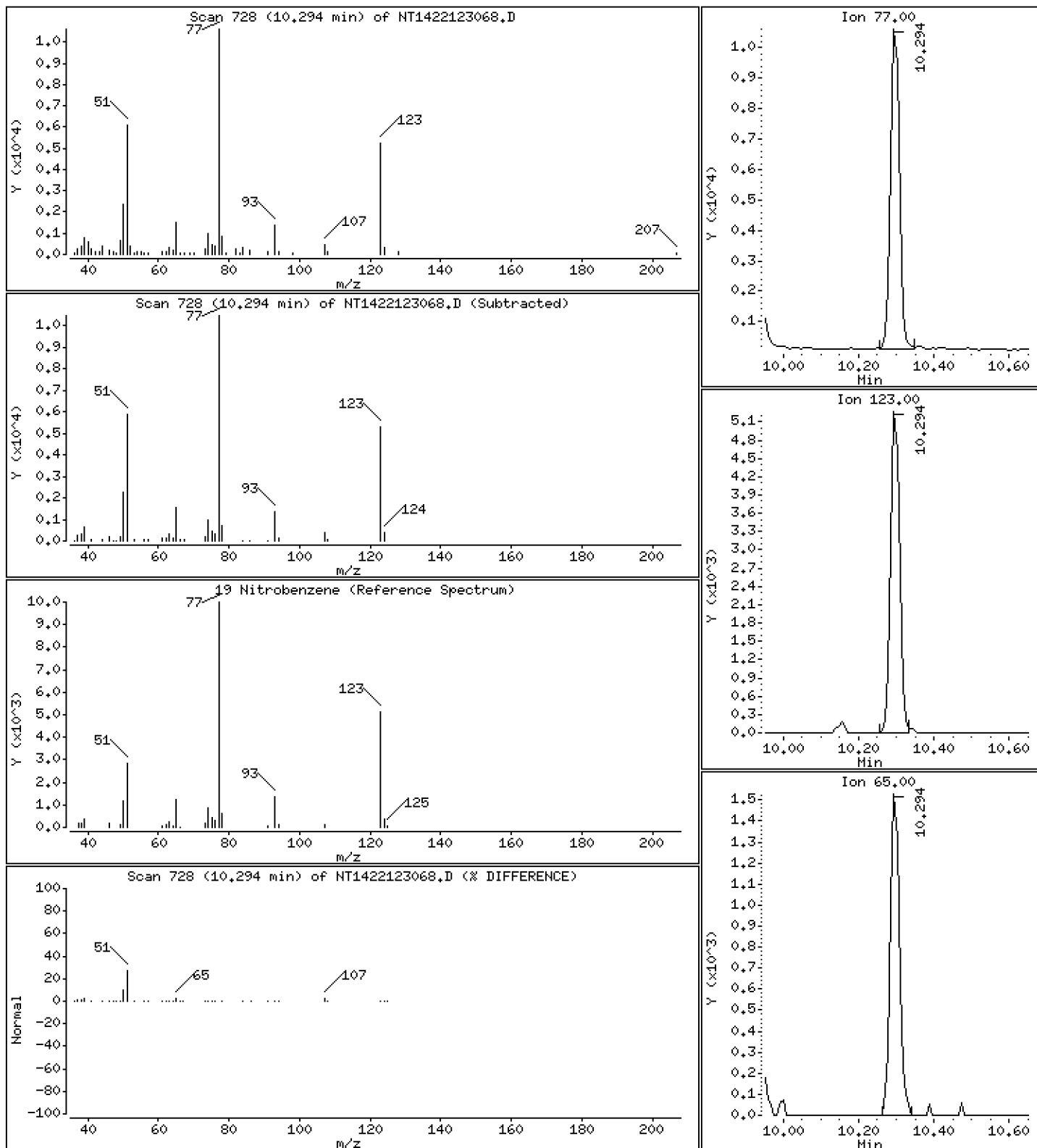
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

19 Nitrobenzene

Concentration: 0,4693 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

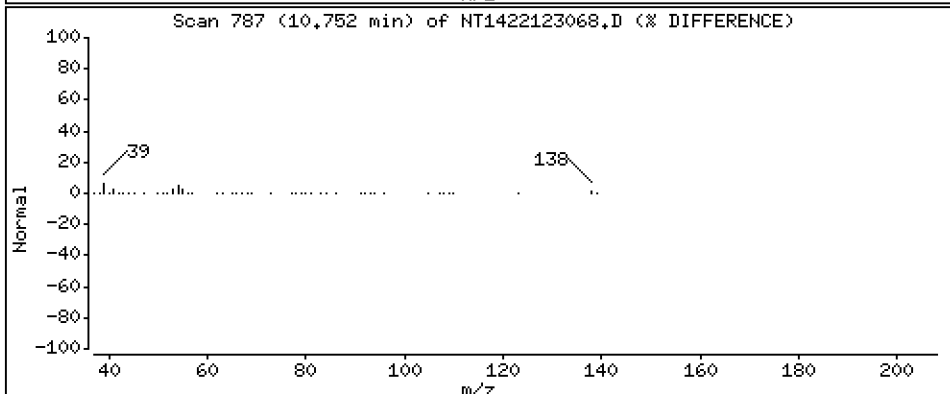
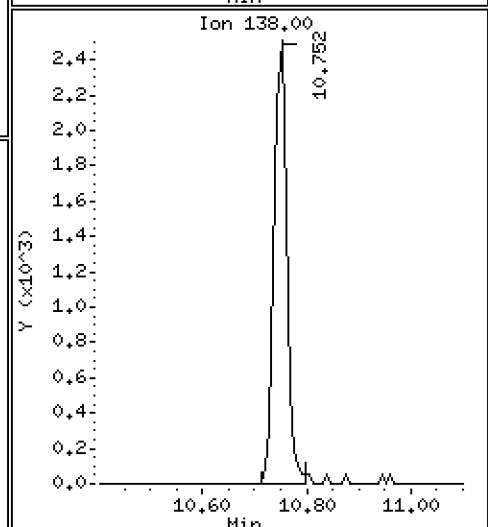
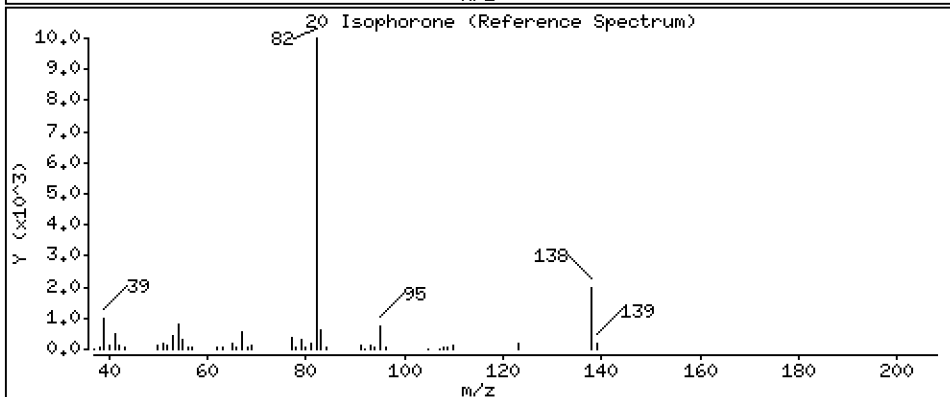
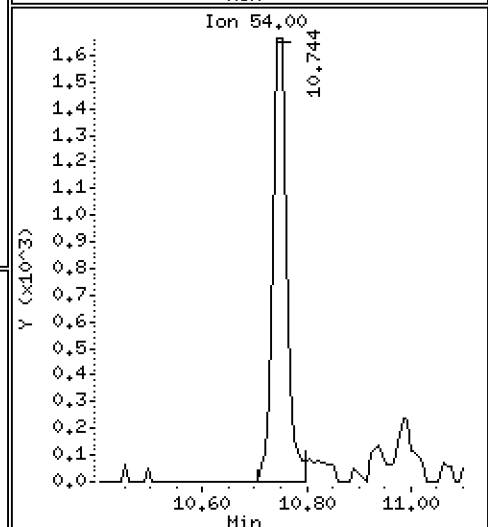
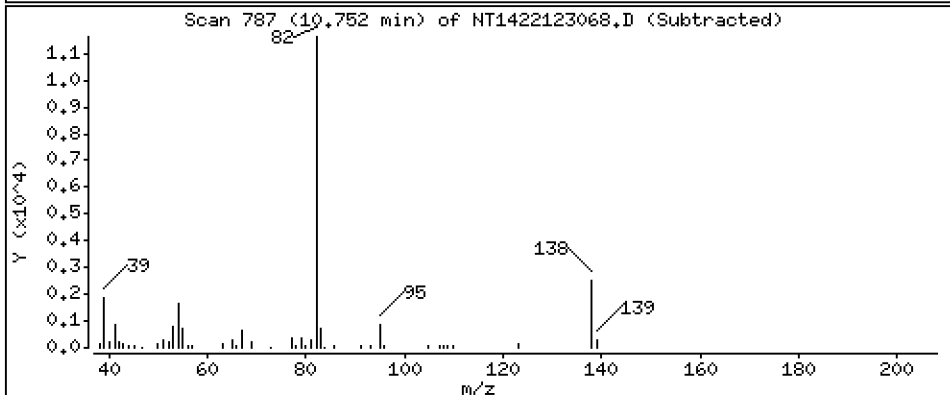
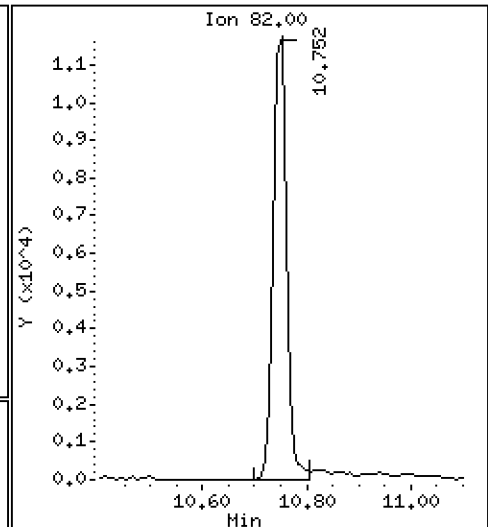
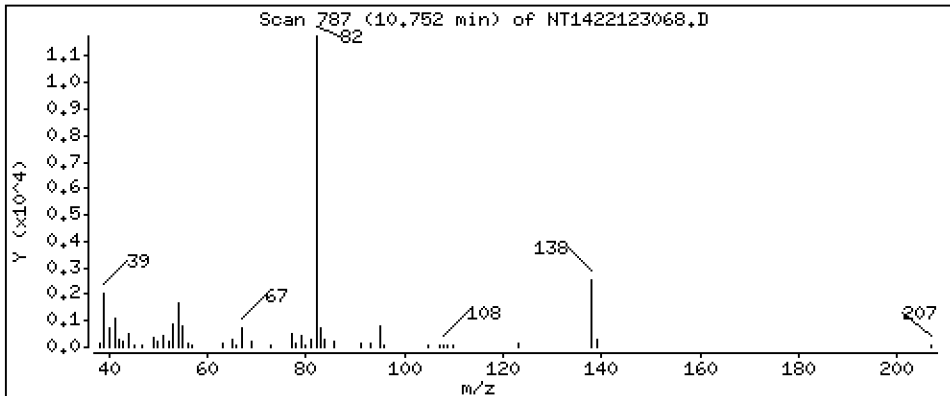
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

20 Isophorone

Concentration: 0,4524 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

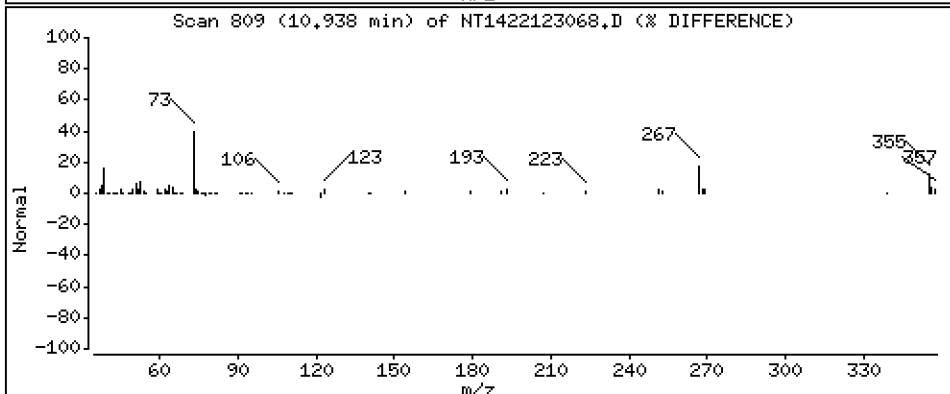
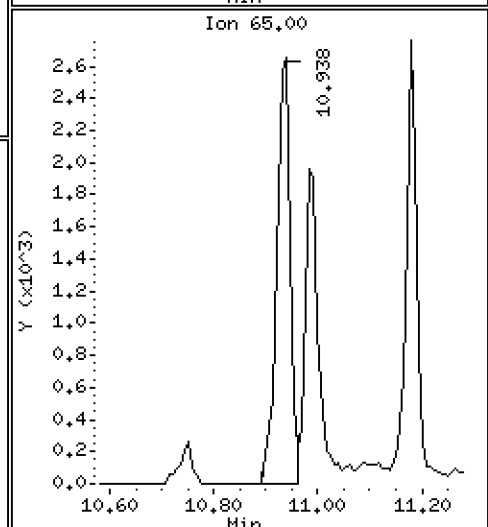
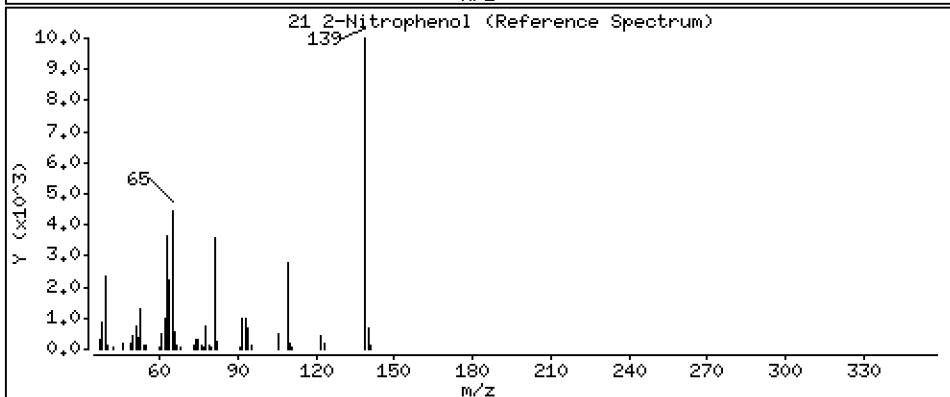
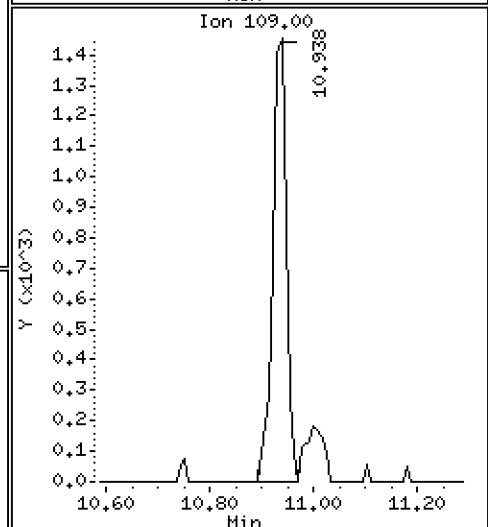
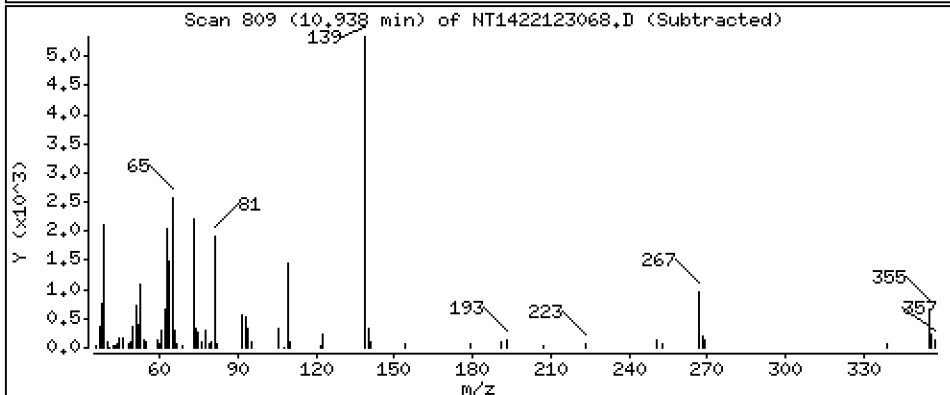
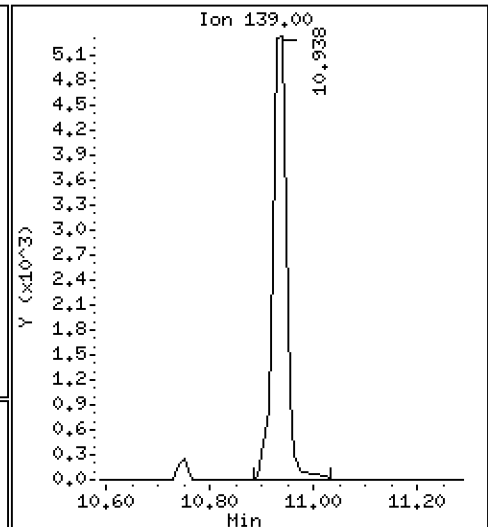
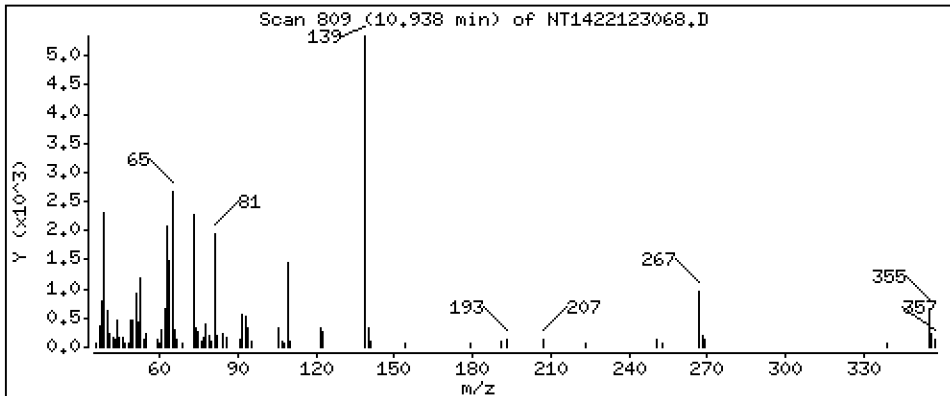
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

21 2-Nitrophenol

Concentration: 0,4732 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

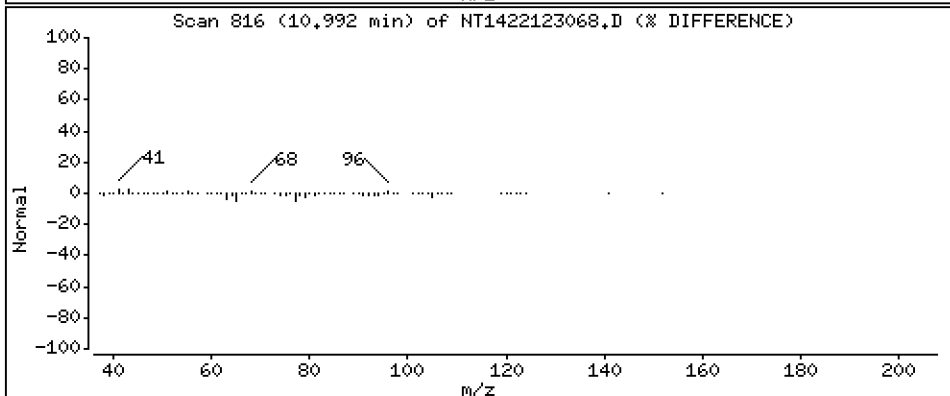
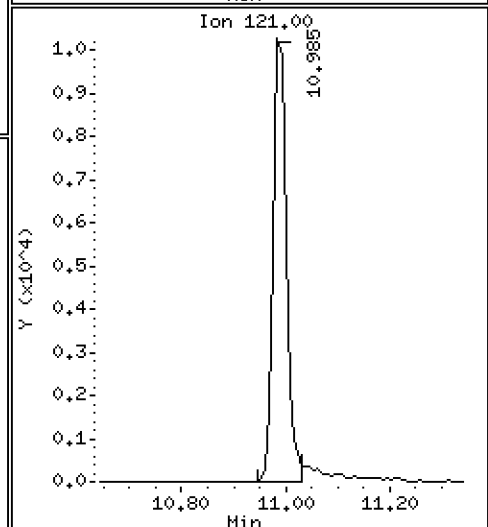
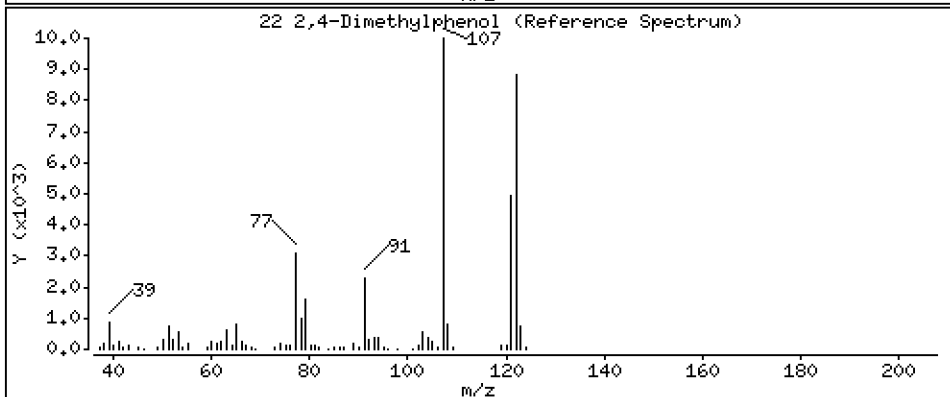
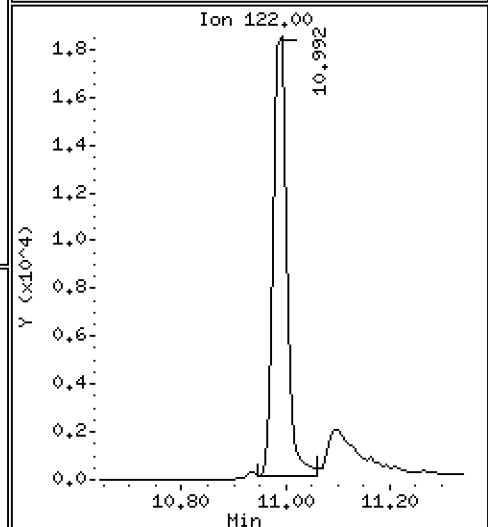
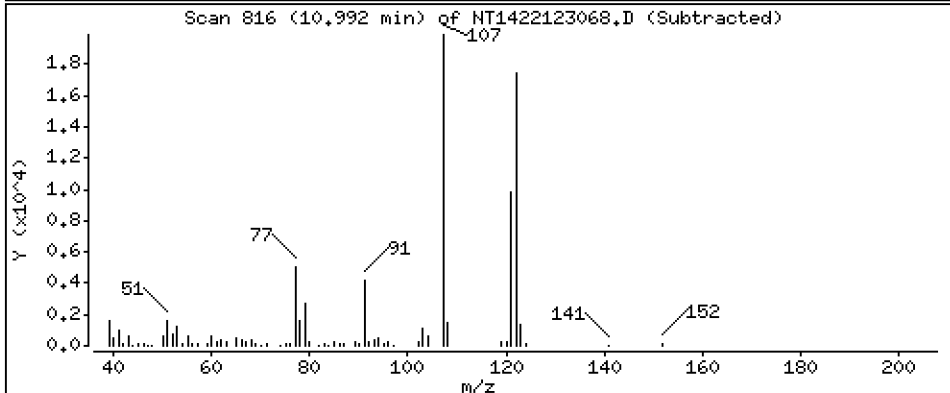
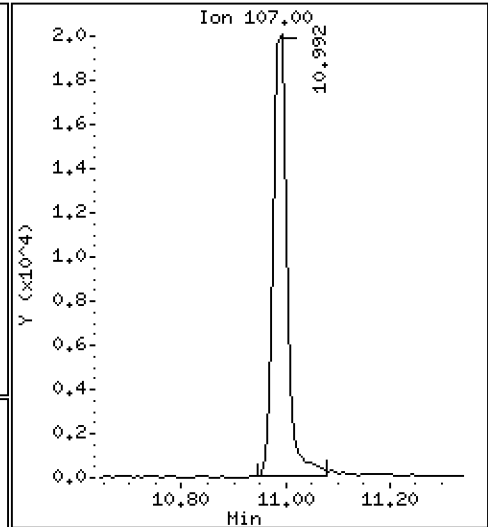
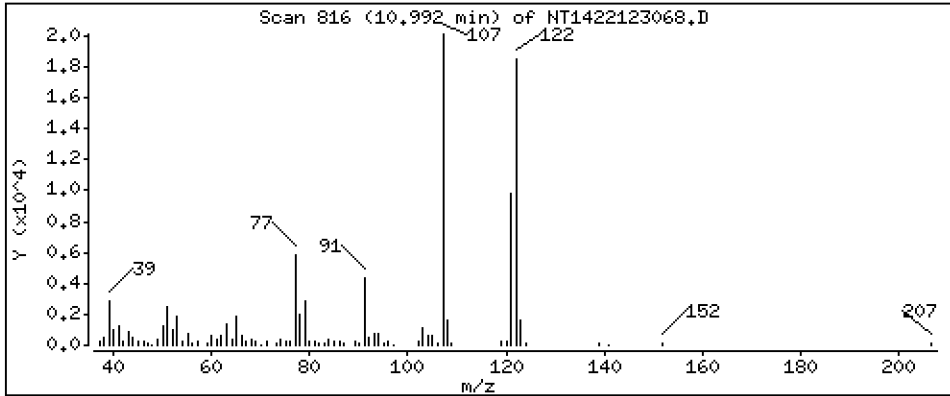
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

22 2,4-Dimethylphenol

Concentration: 0,9769 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

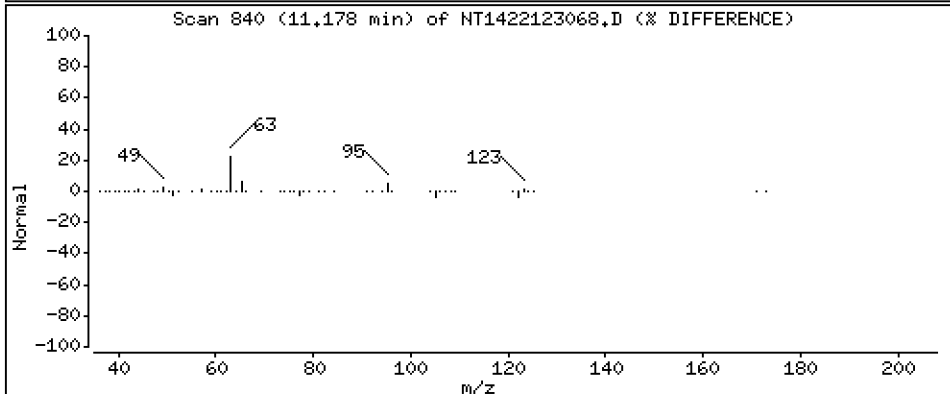
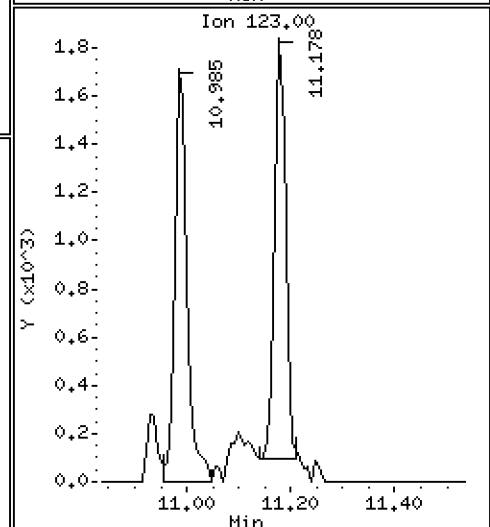
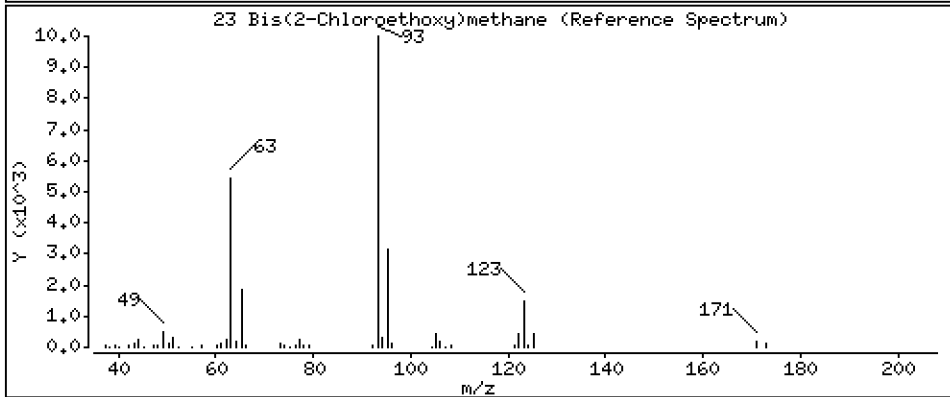
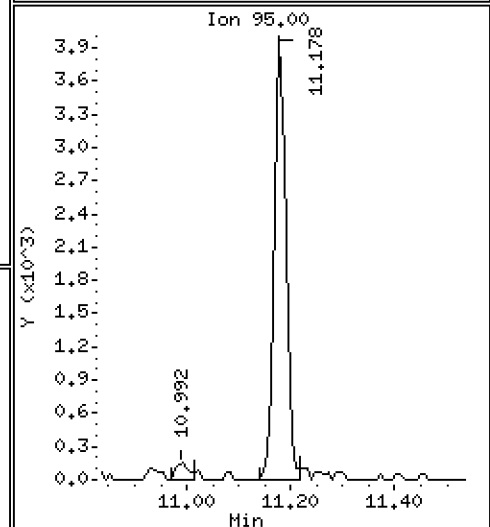
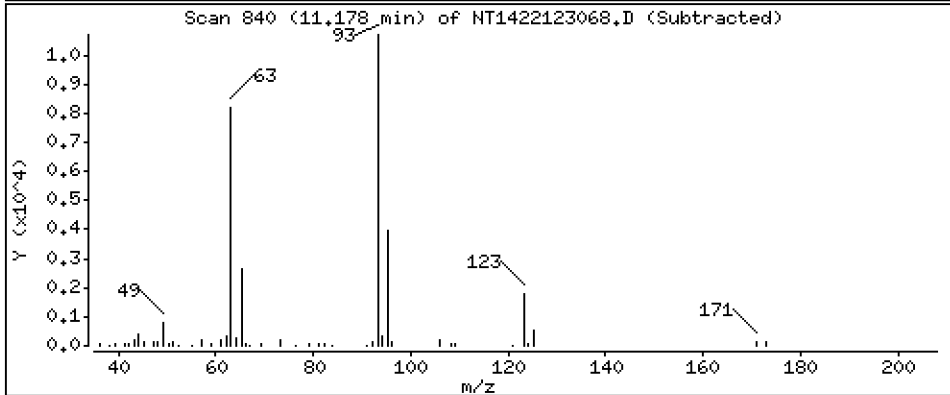
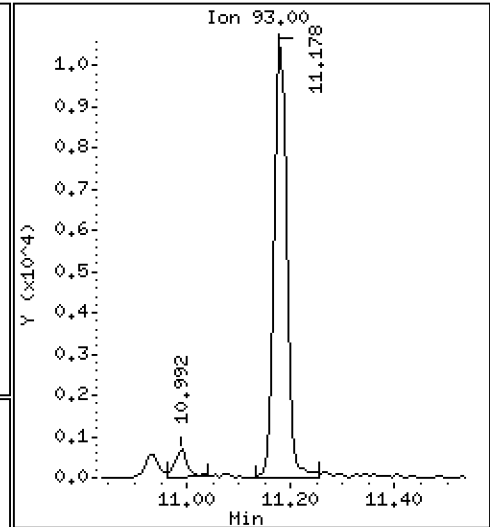
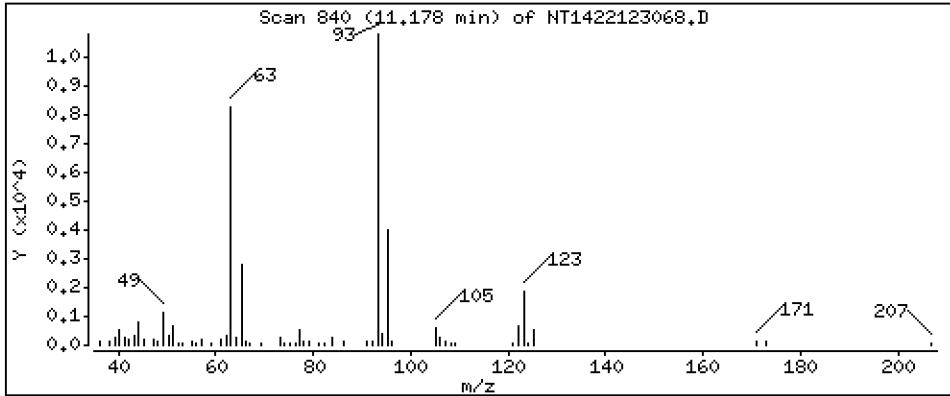
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

23 Bis(2-Chloroethoxy)methane

Concentration: 0.4949 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

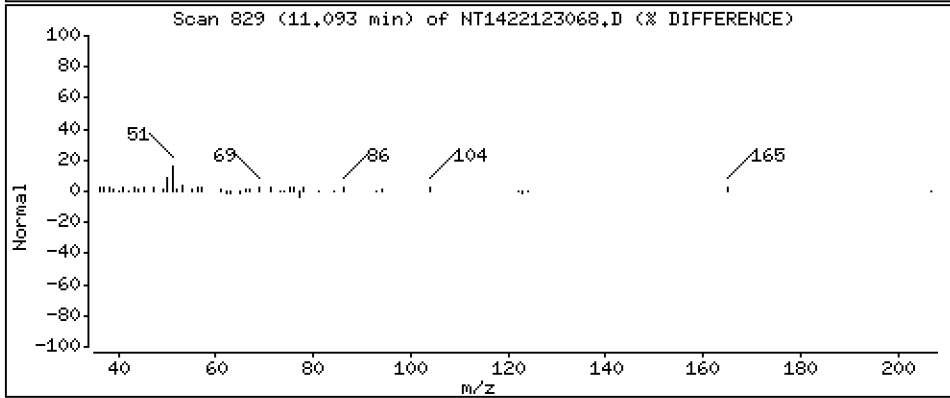
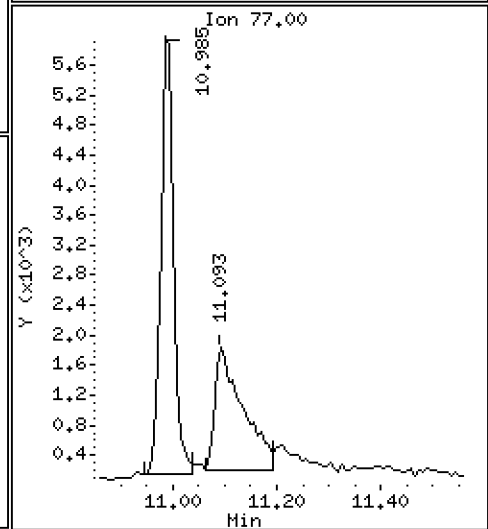
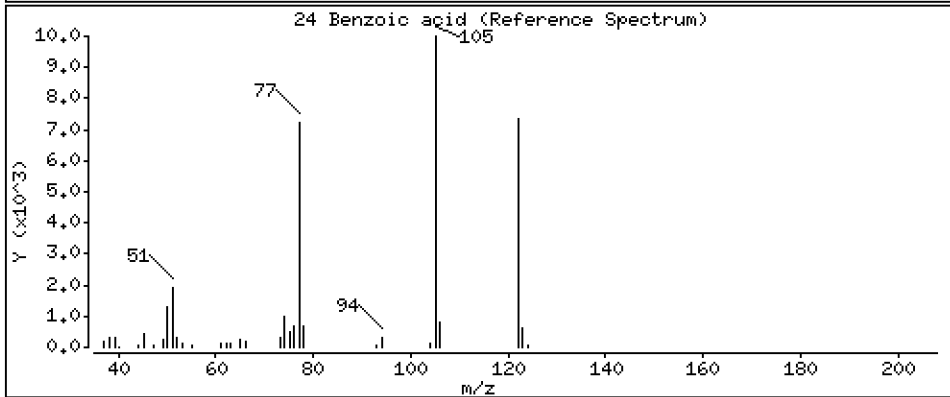
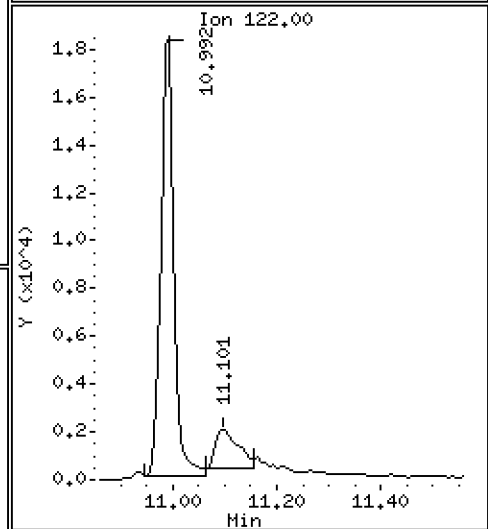
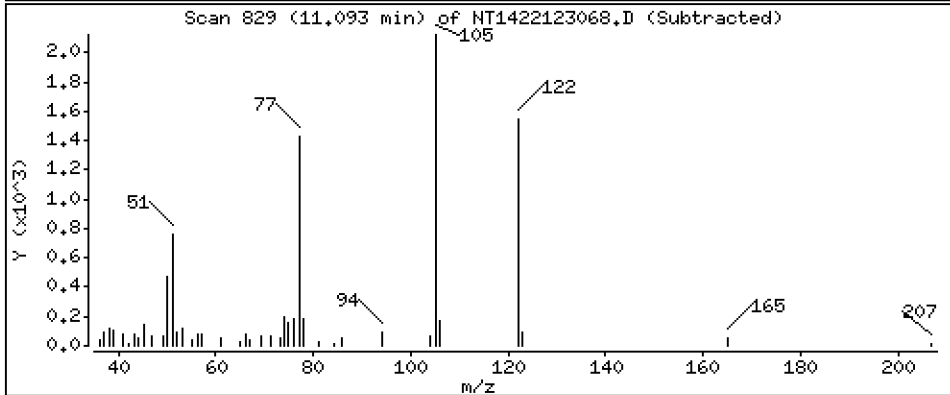
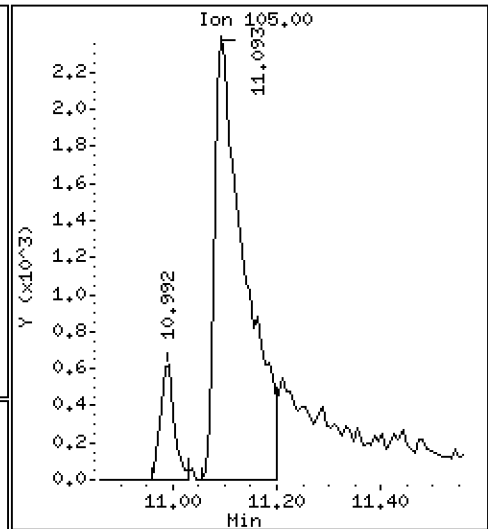
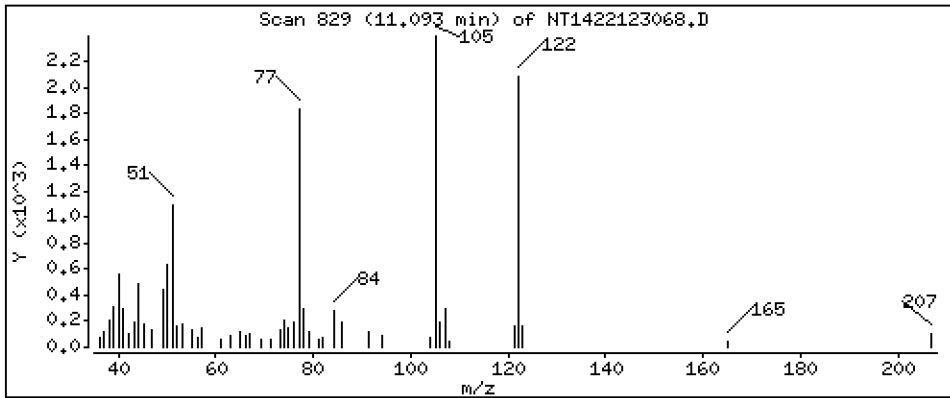
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

24 Benzoic acid

Concentration: 0.4477 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

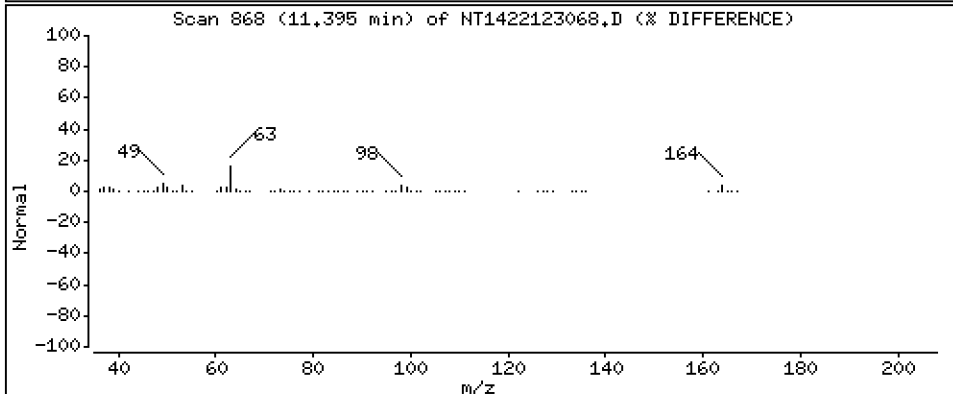
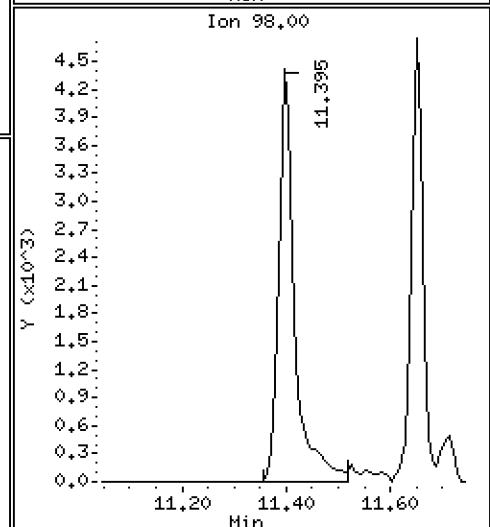
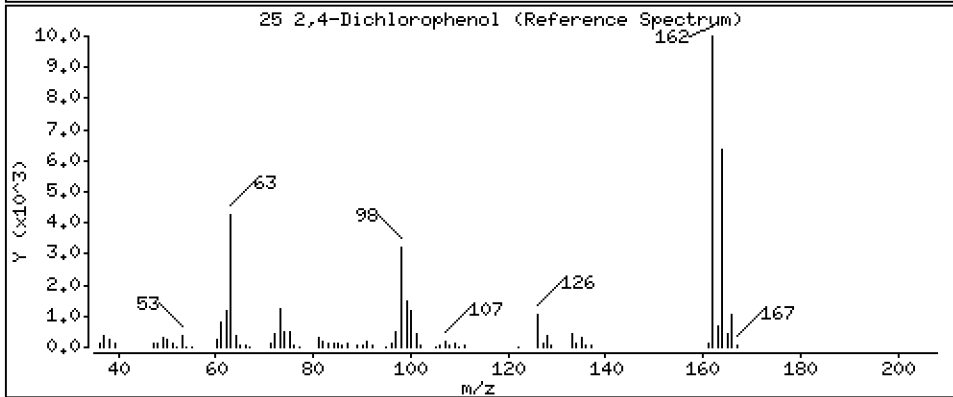
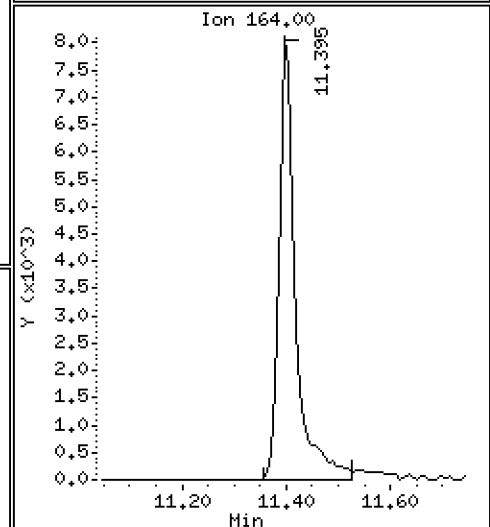
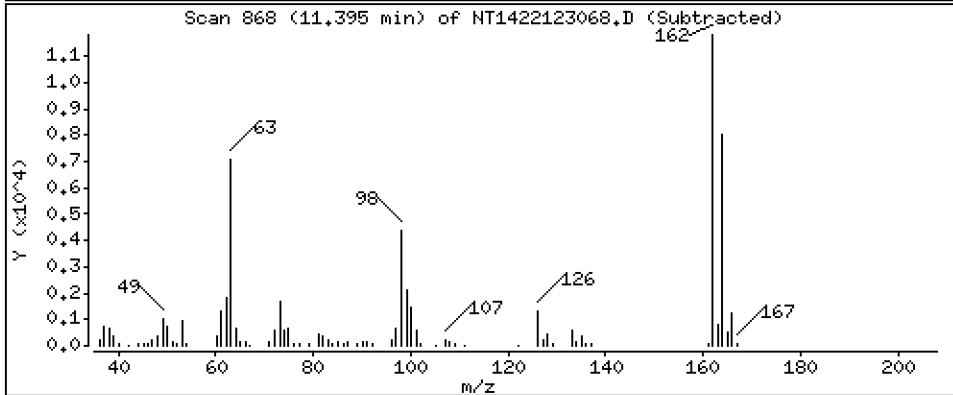
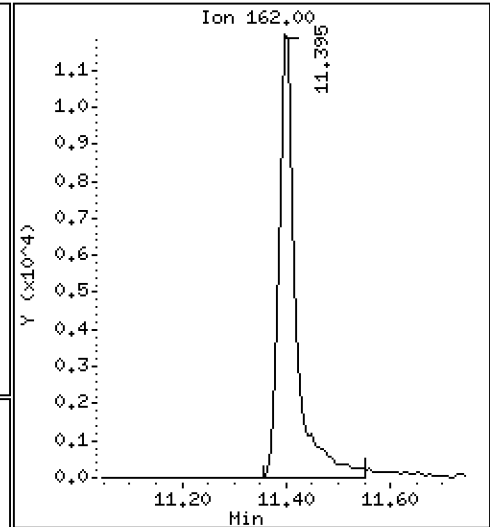
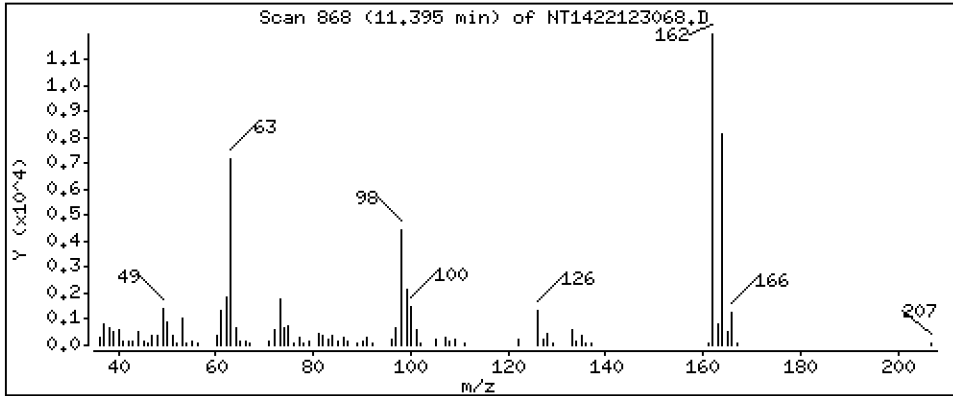
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

25 2,4-Dichlorophenol

Concentration: 0,9599 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

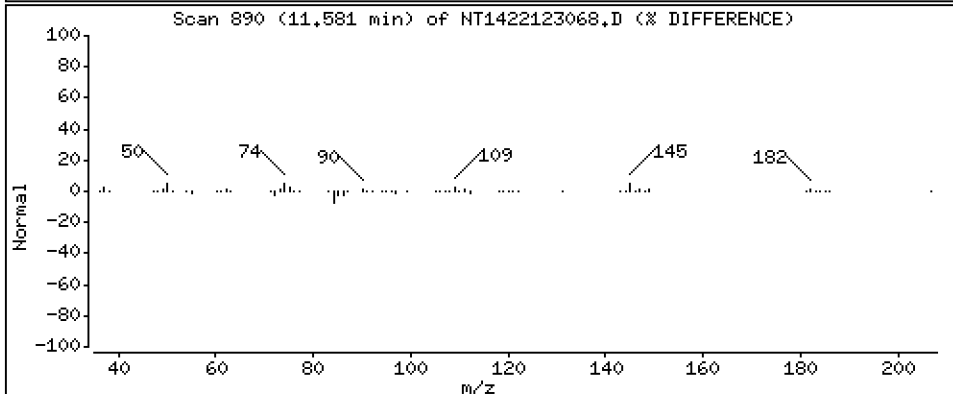
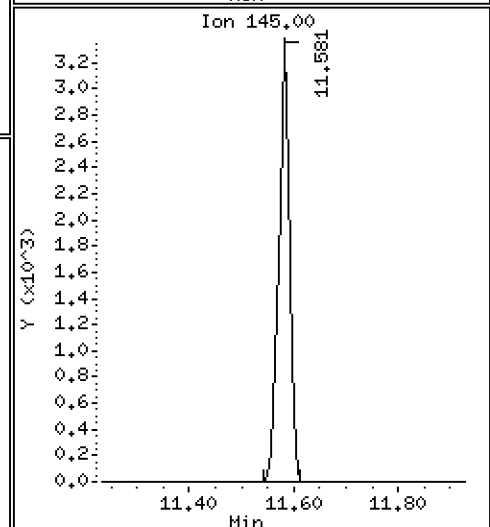
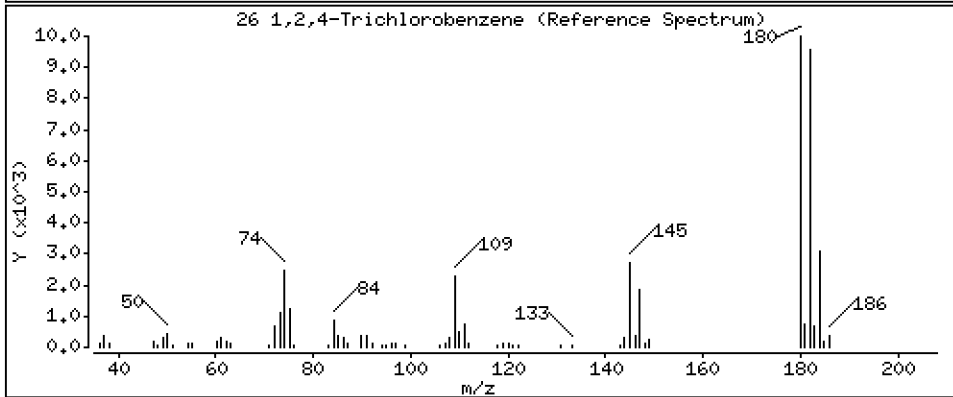
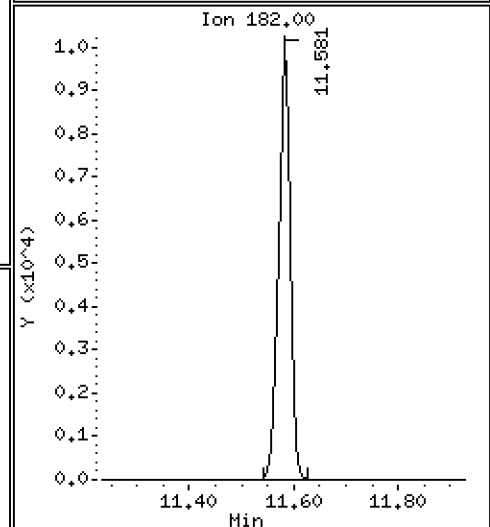
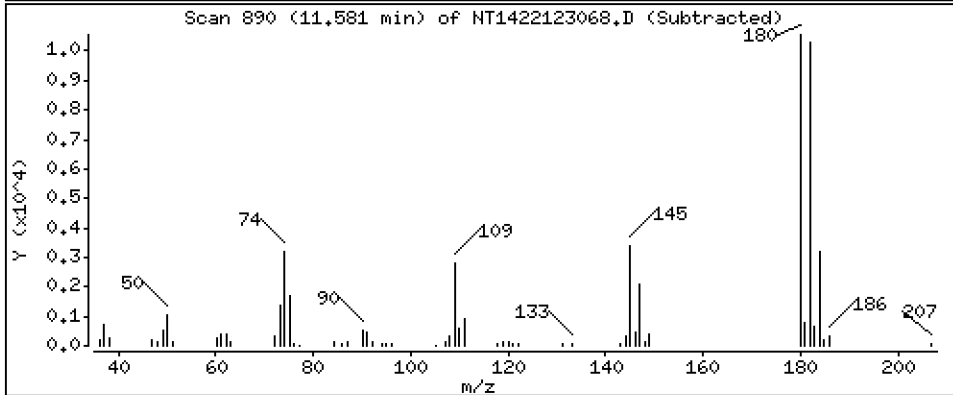
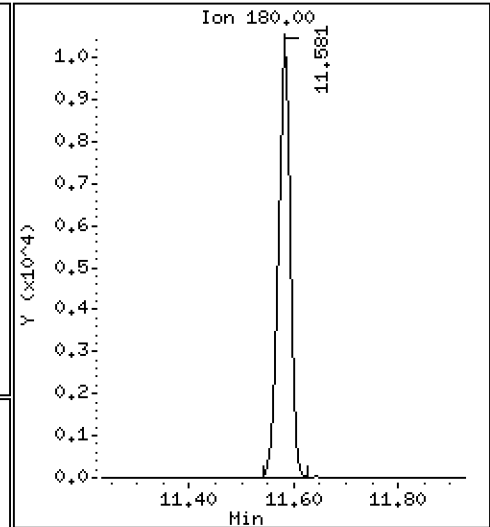
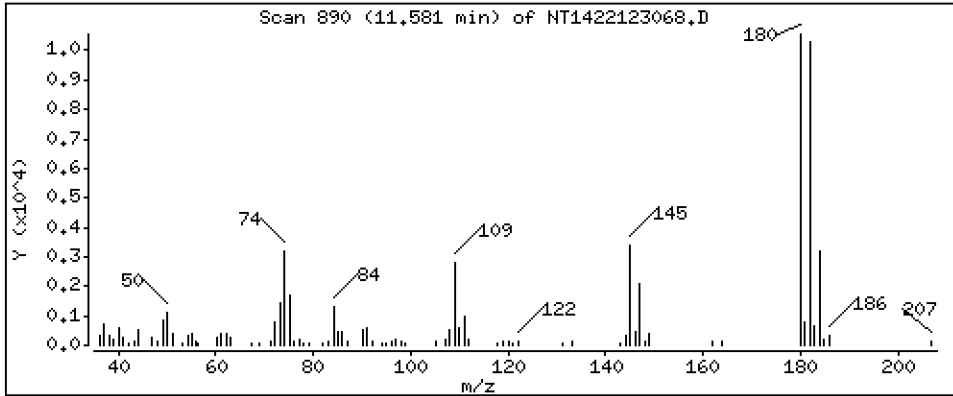
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

26 1,2,4-Trichlorobenzene

Concentration: 0,4890 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

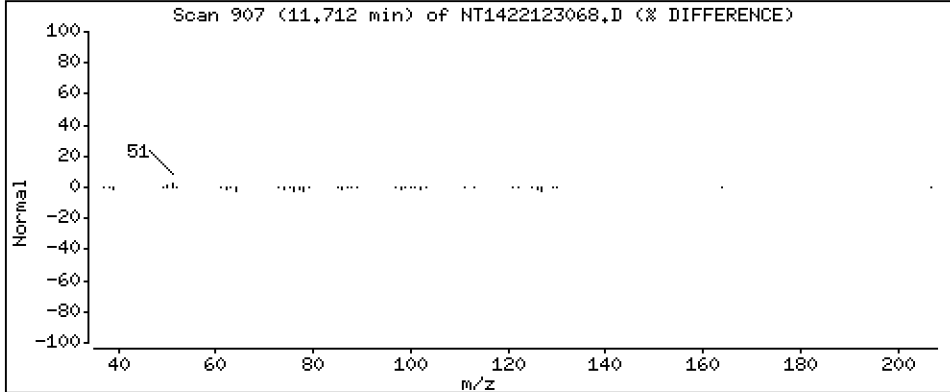
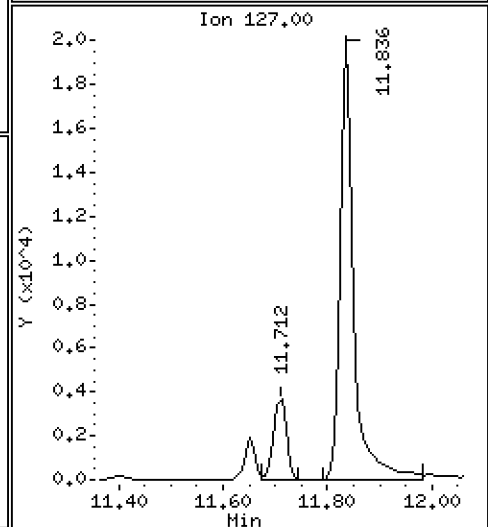
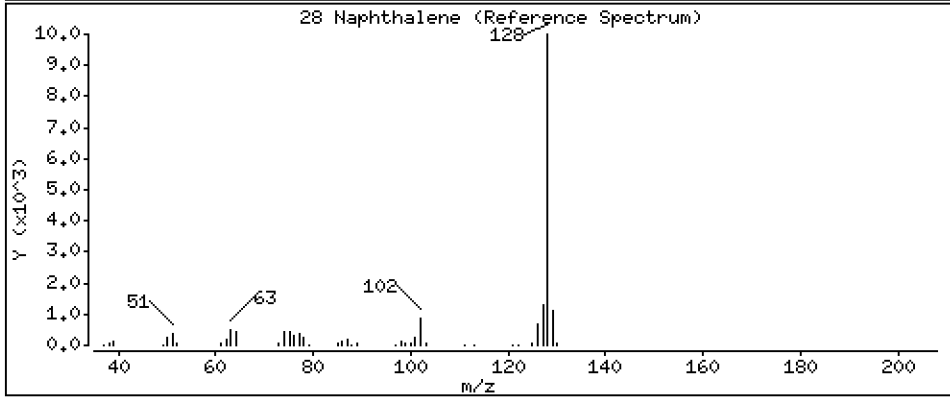
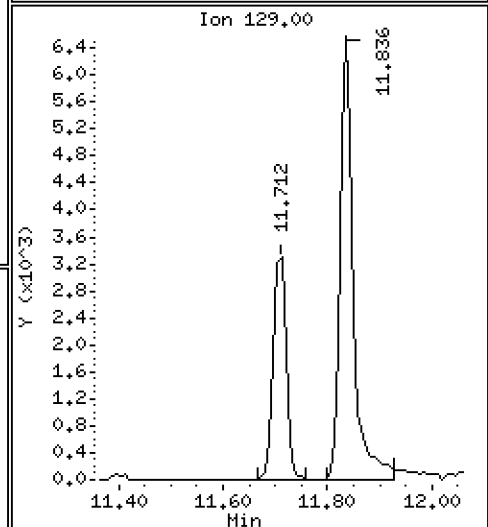
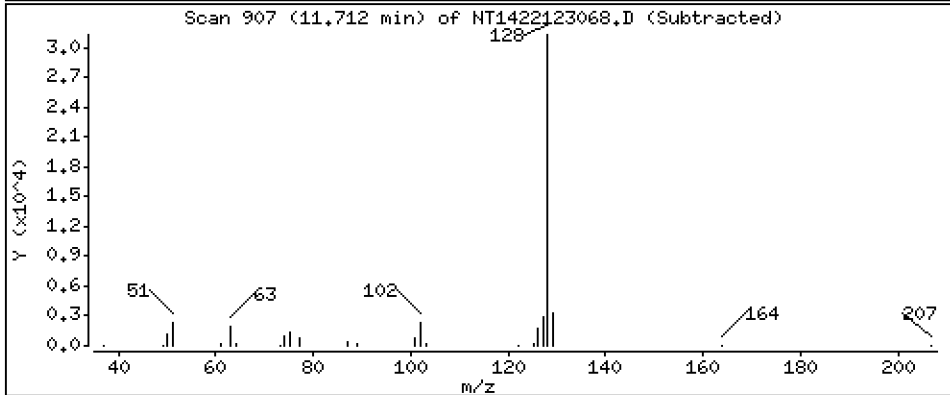
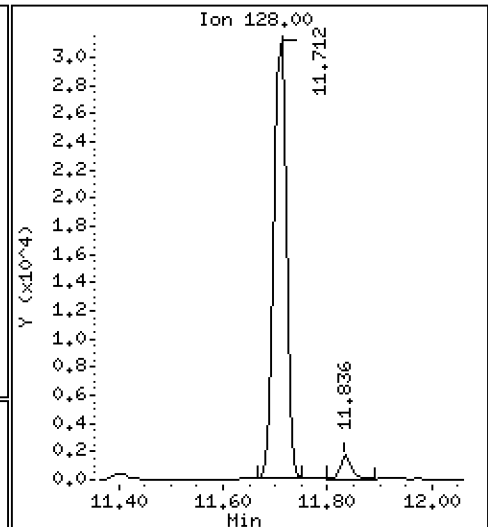
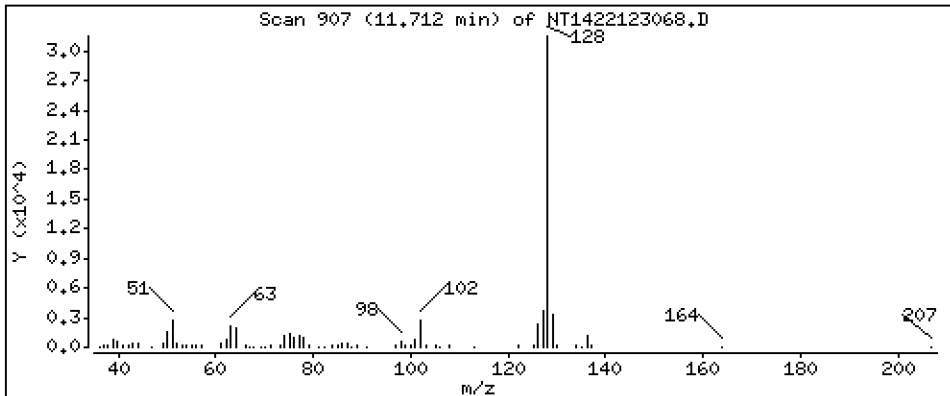
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

28 Naphthalene

Concentration: 0.4854 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

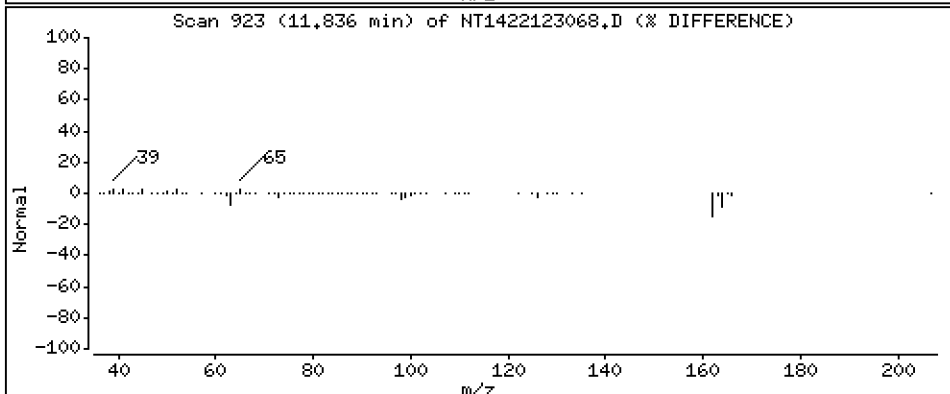
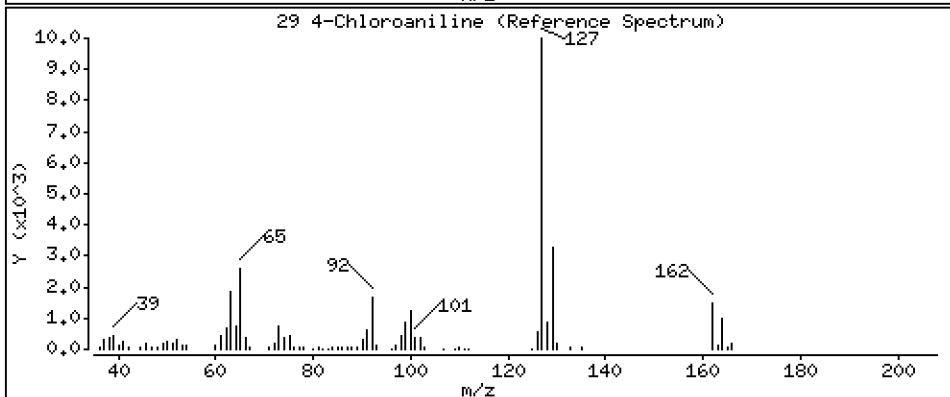
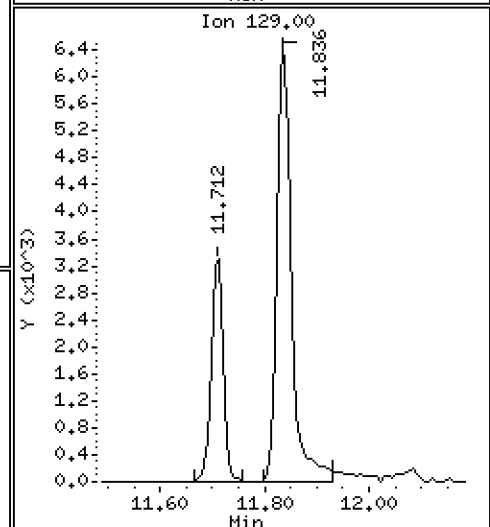
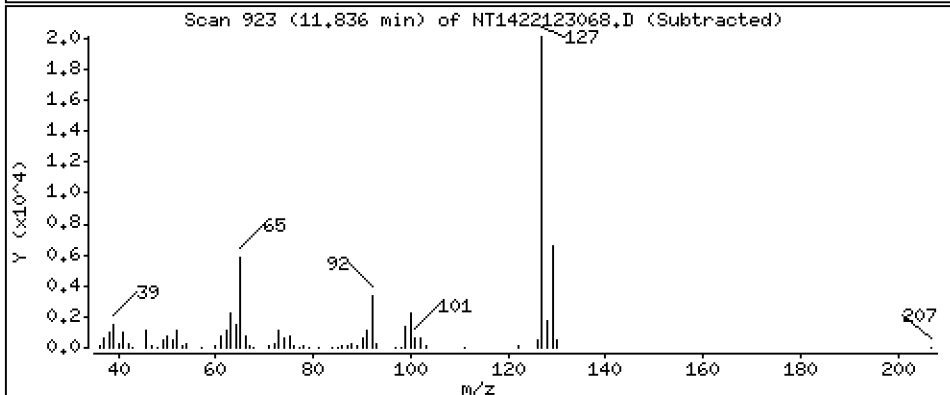
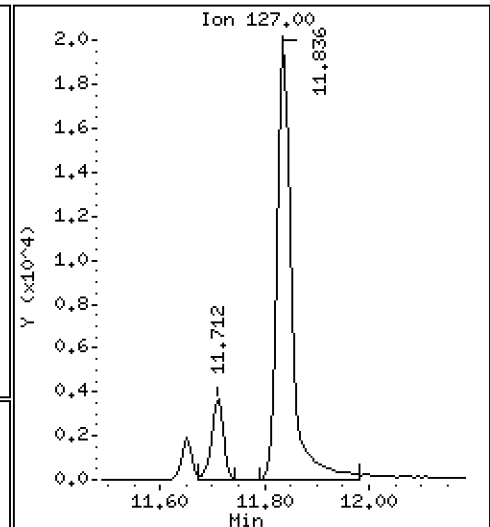
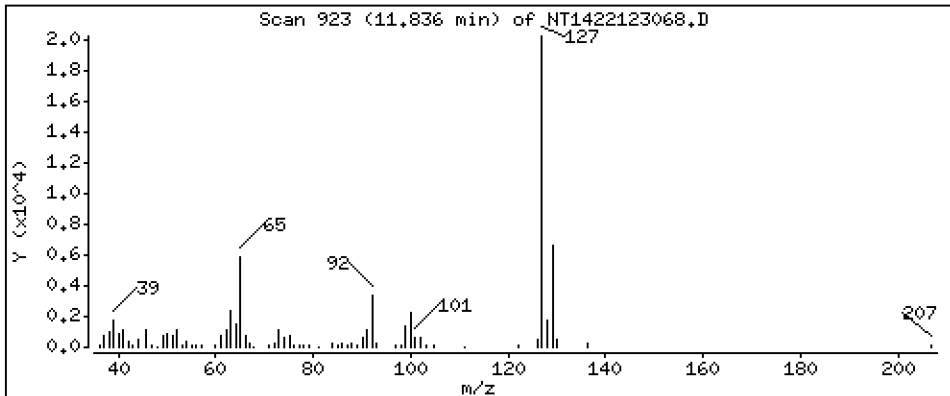
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

29 4-Chloroaniline

Concentration: 0,8885 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

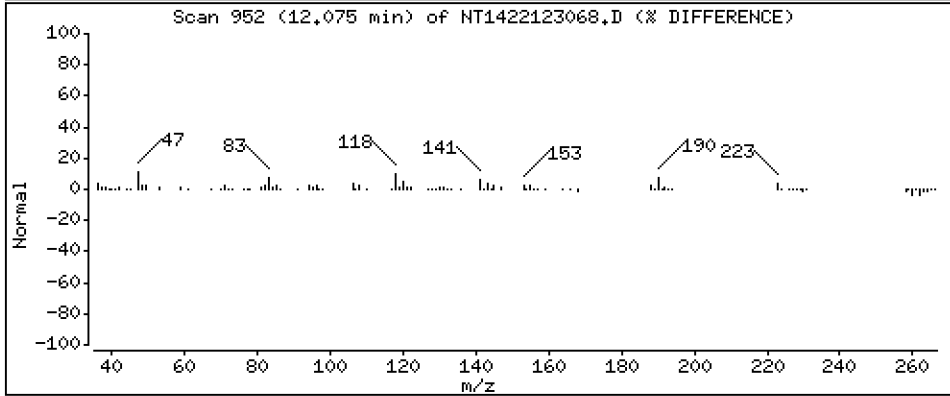
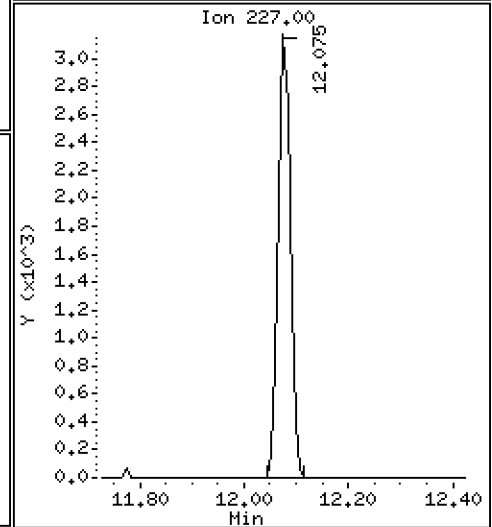
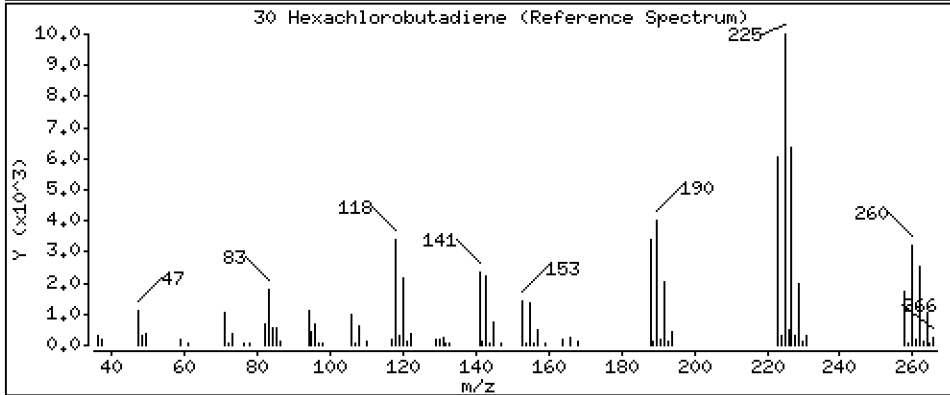
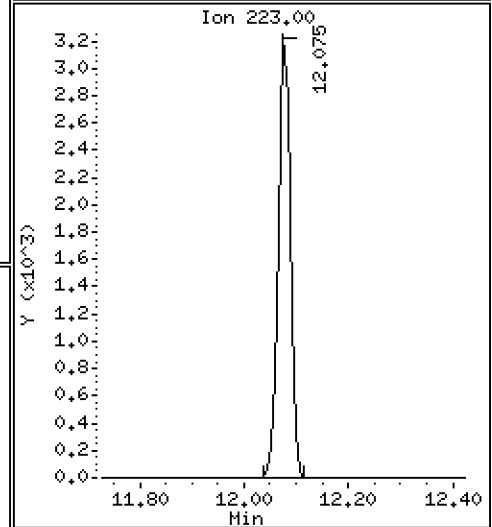
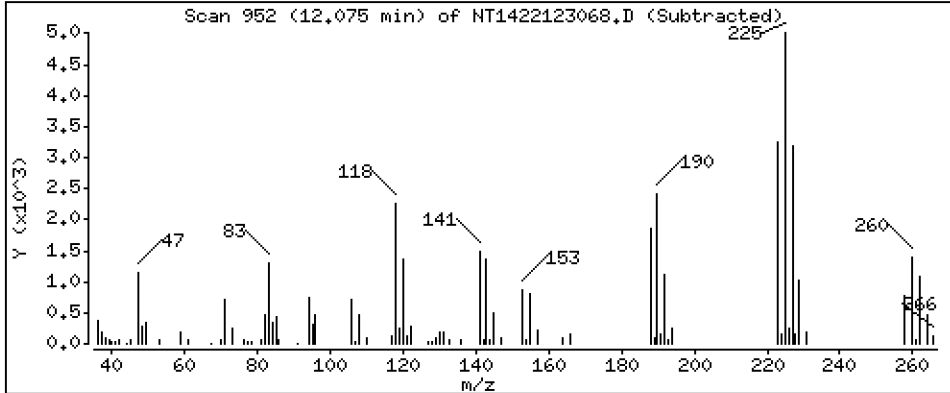
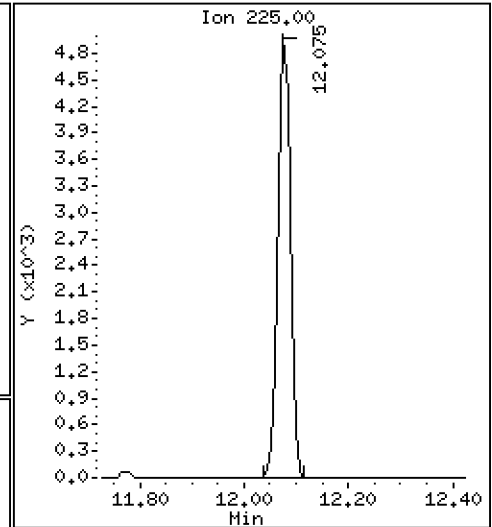
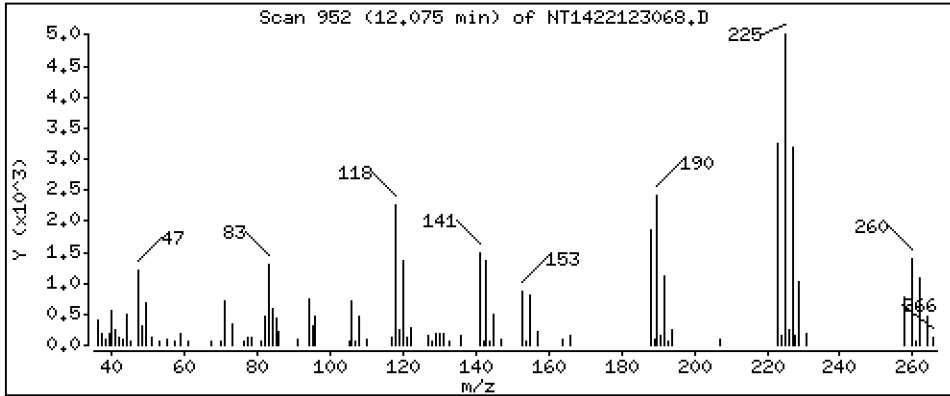
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

30 Hexachlorobutadiene

Concentration: 0,4777 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

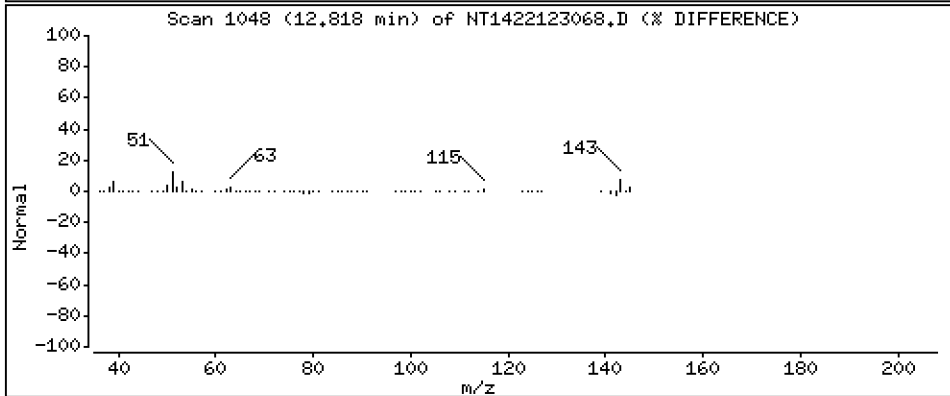
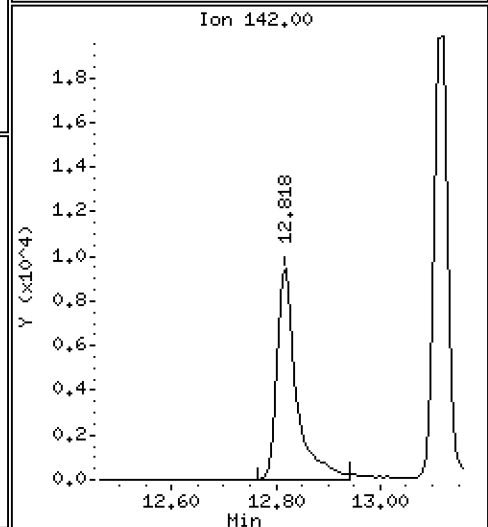
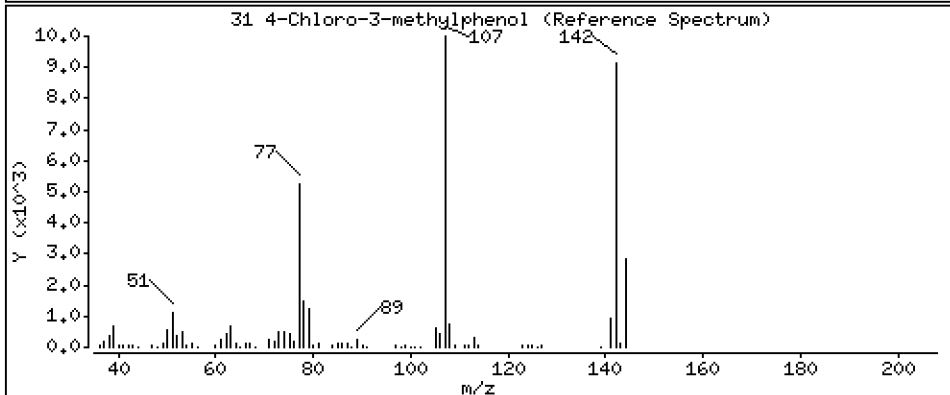
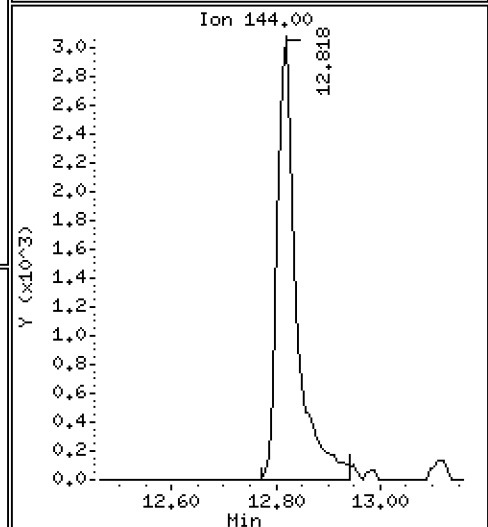
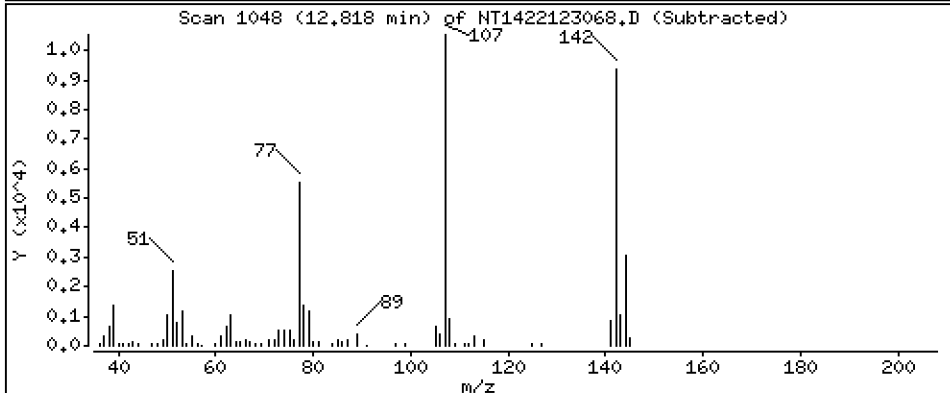
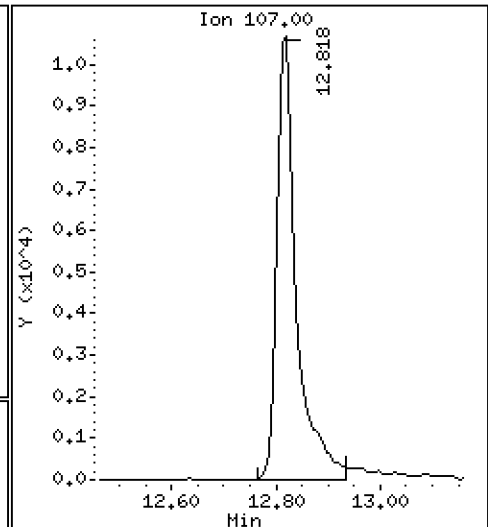
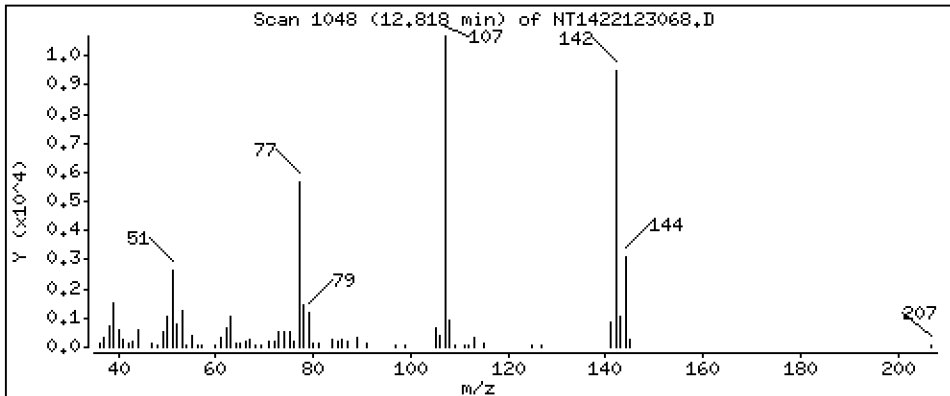
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

31 4-Chloro-3-methylphenol

Concentration: 0,9495 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

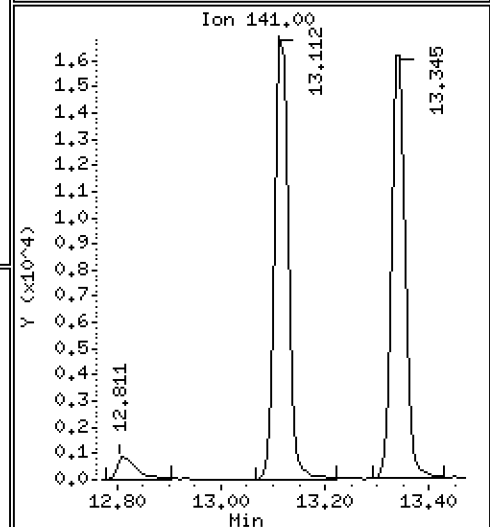
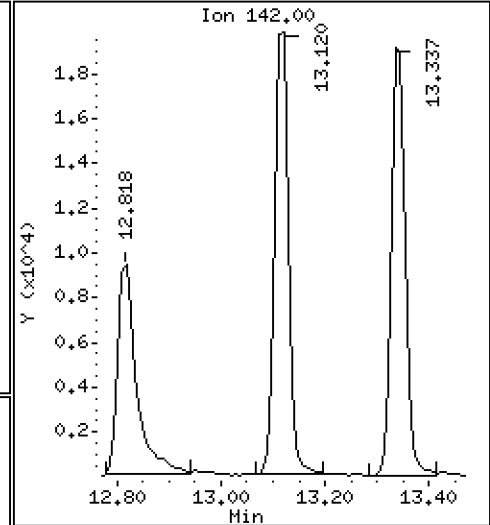
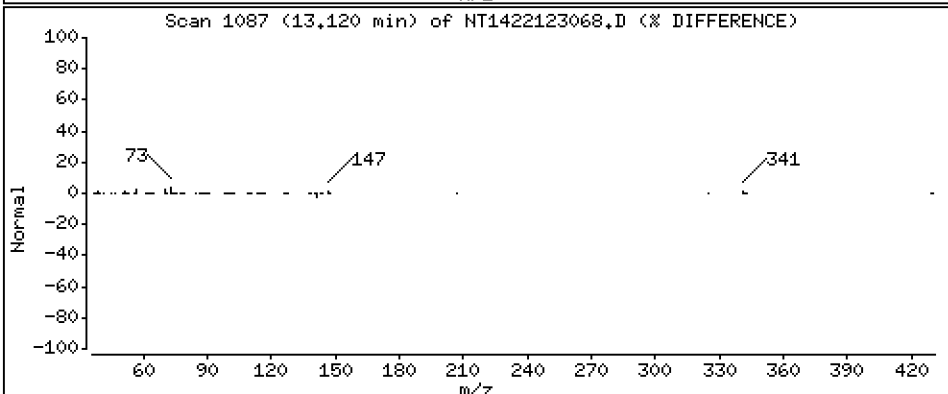
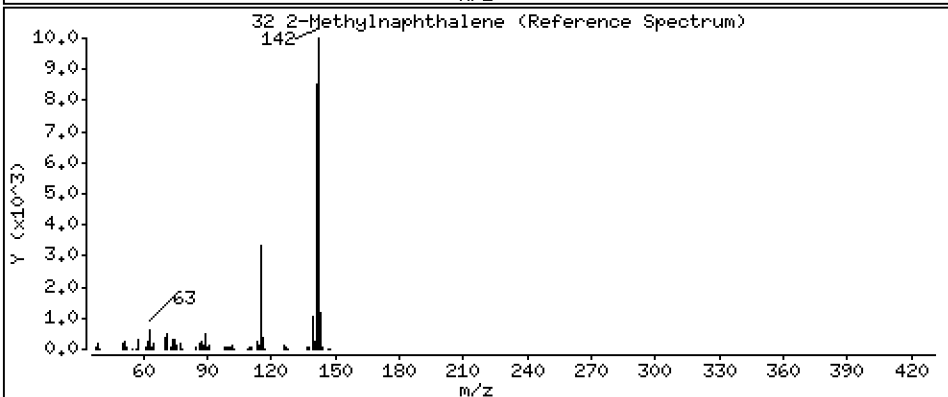
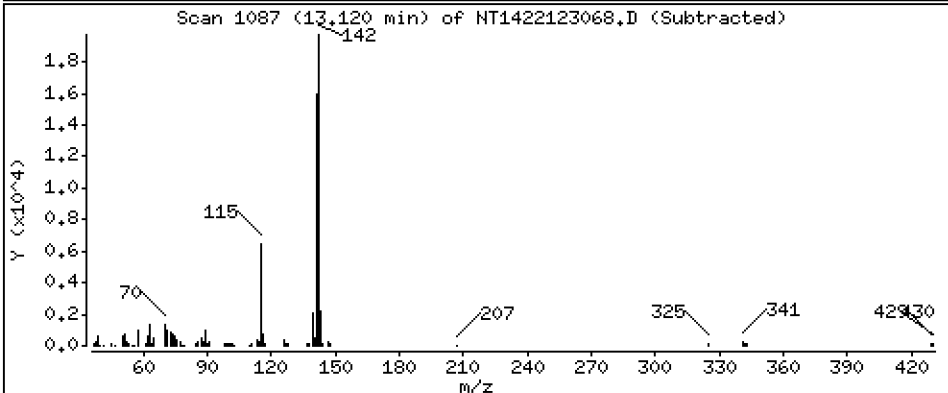
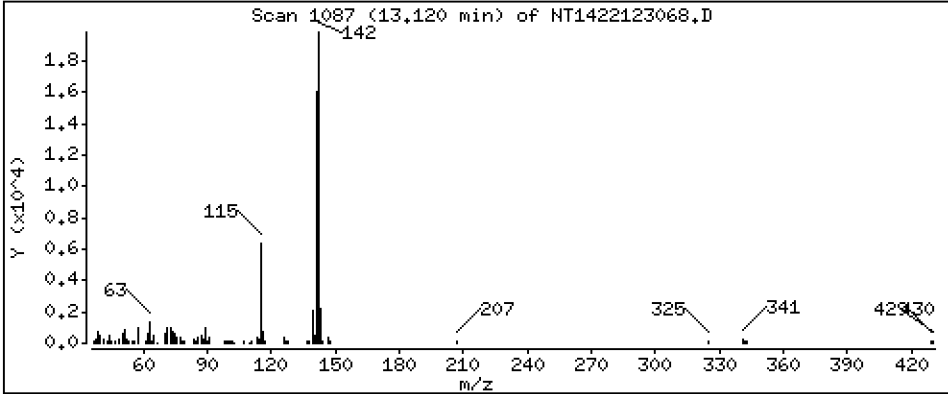
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

32 2-Methylnaphthalene

Concentration: 0,4656 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

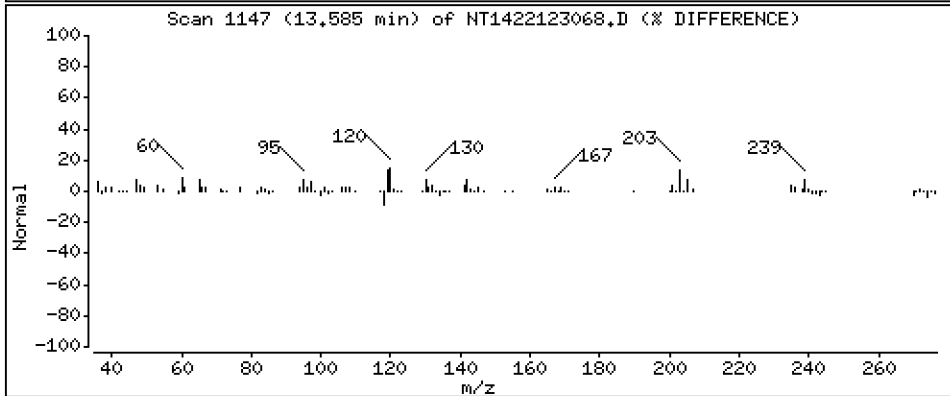
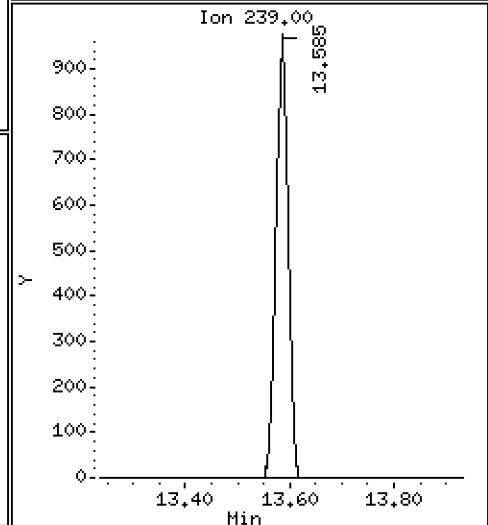
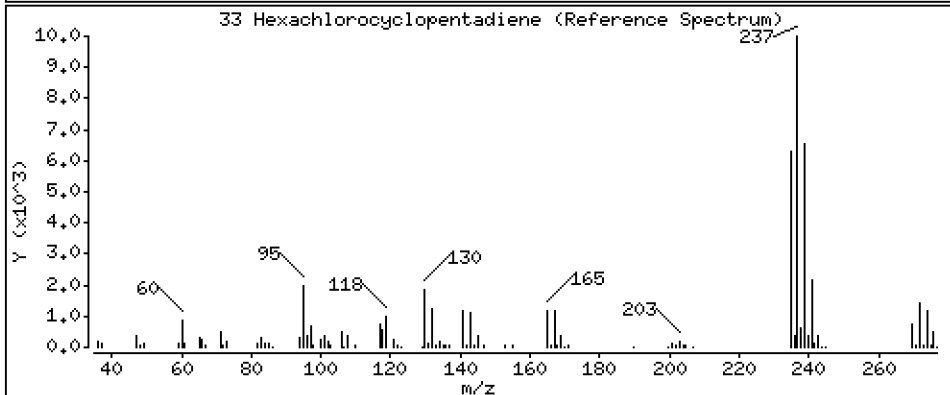
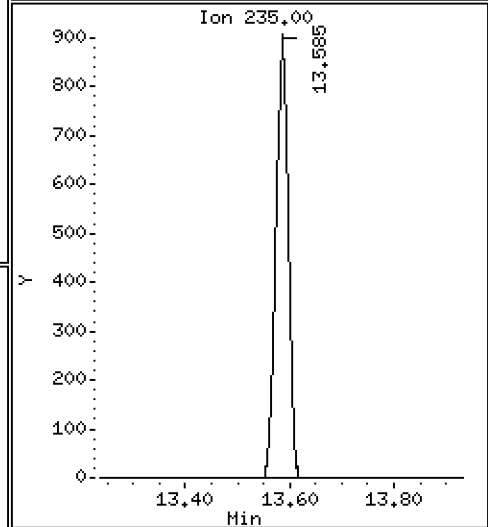
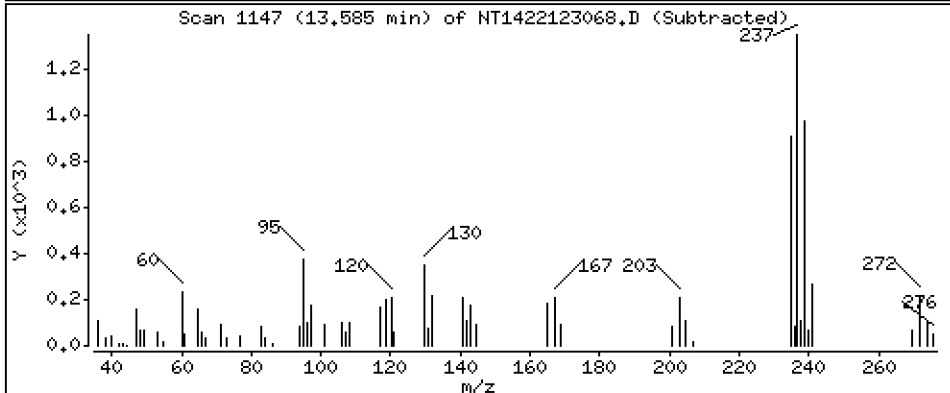
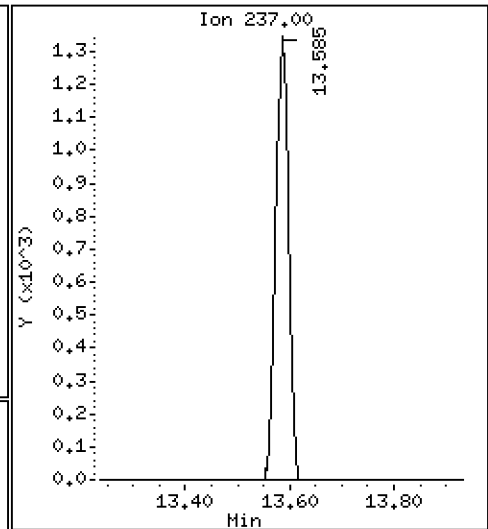
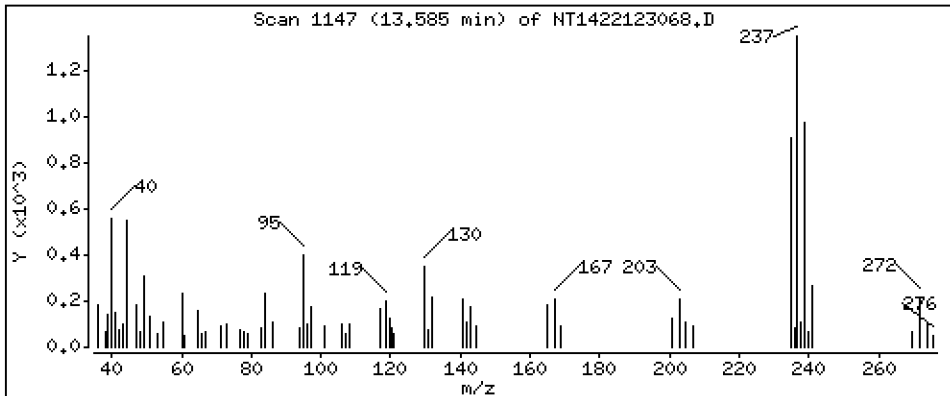
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

33 Hexachlorocyclopentadiene

Concentration: 0,1373 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

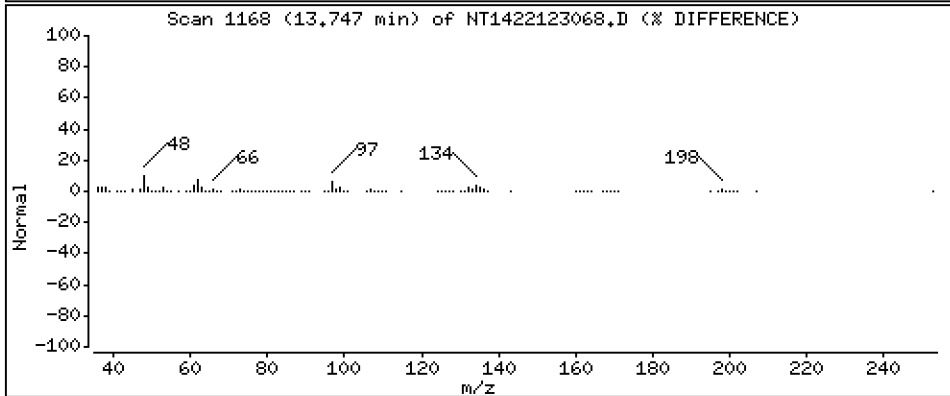
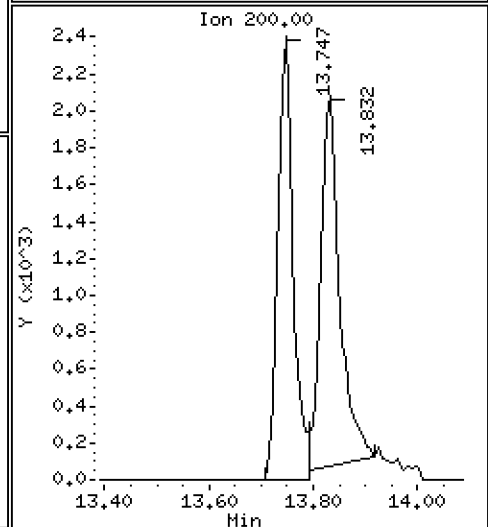
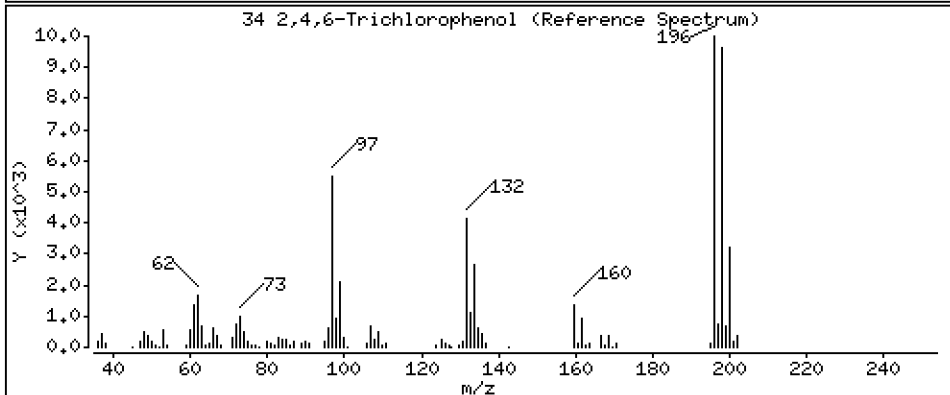
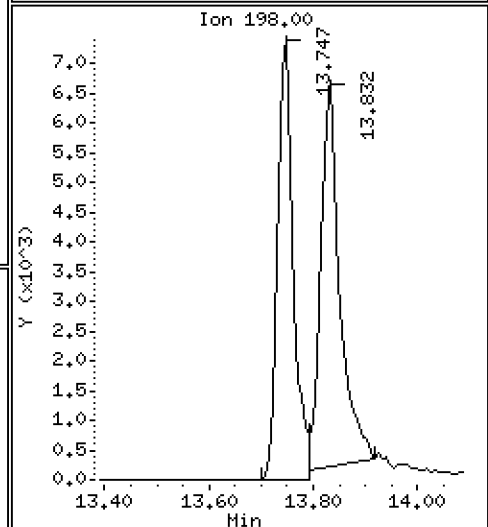
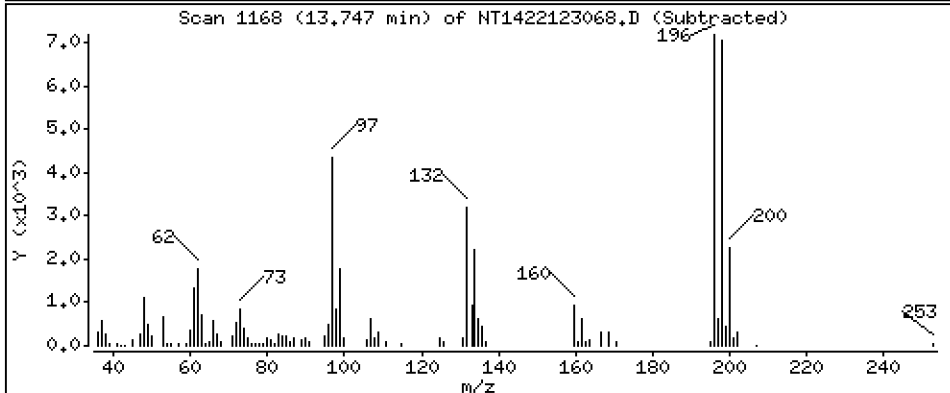
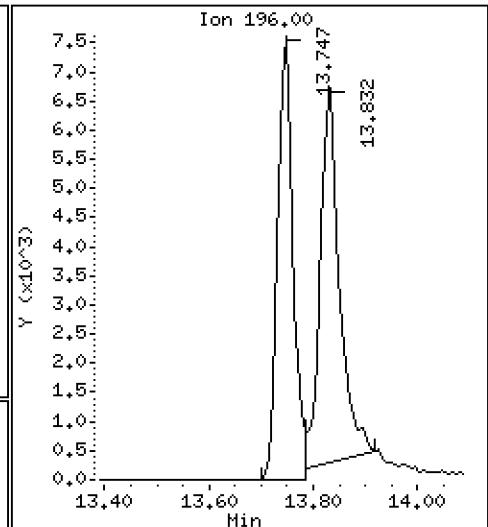
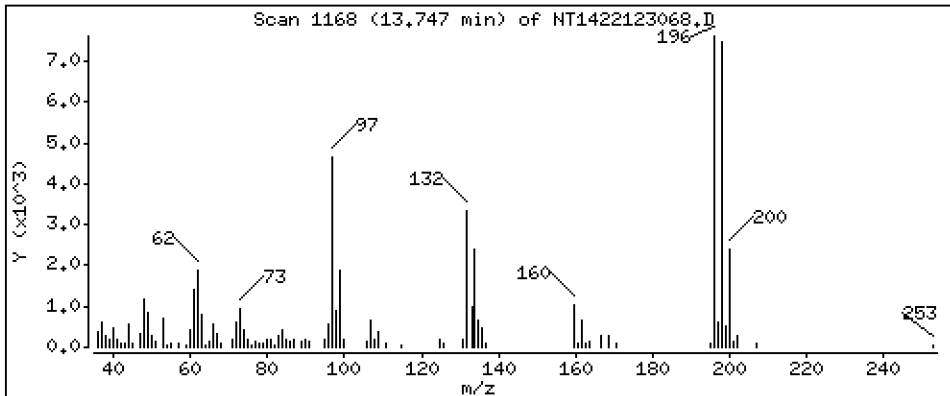
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

34 2,4,6-Trichlorophenol

Concentration: 0,8738 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

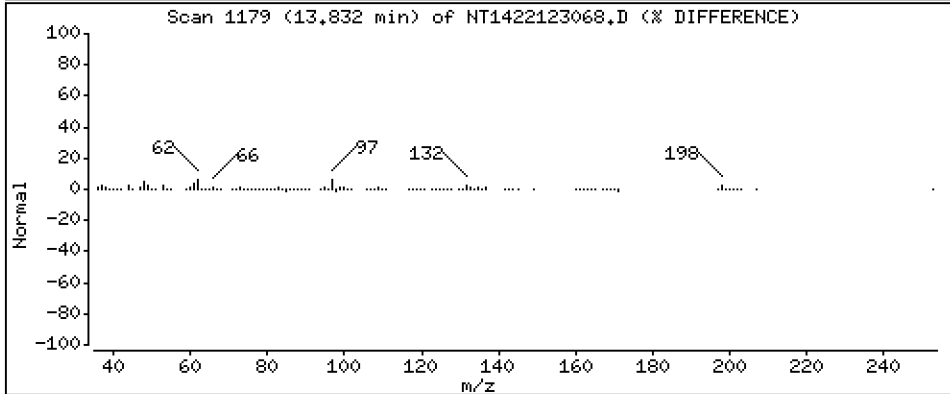
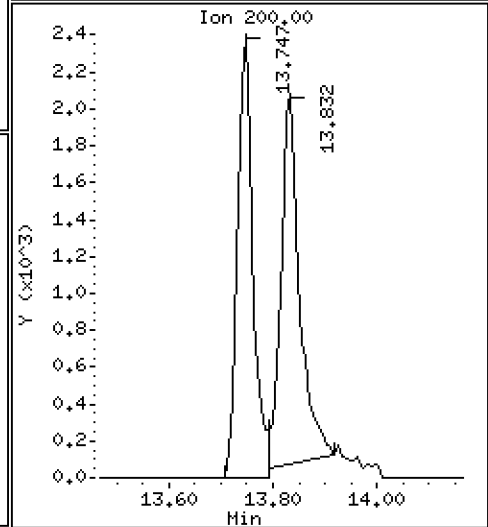
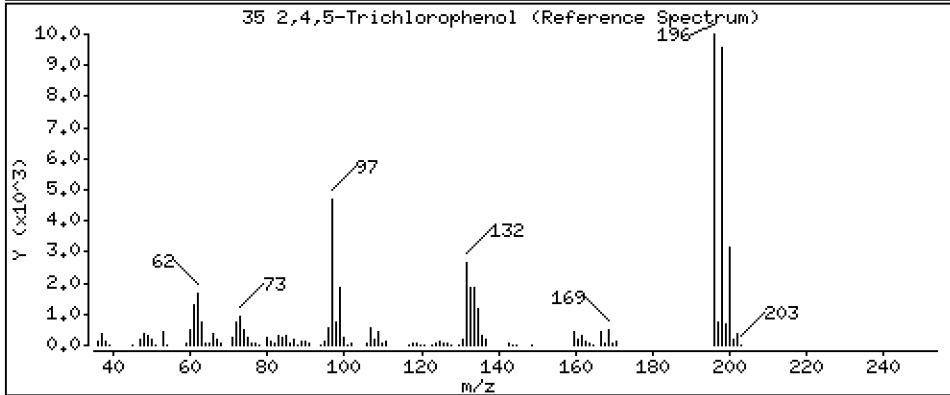
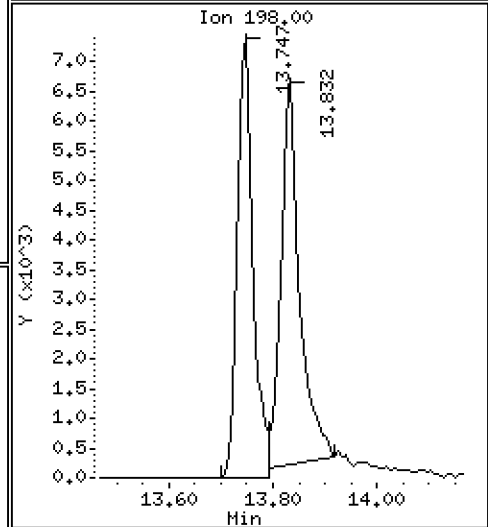
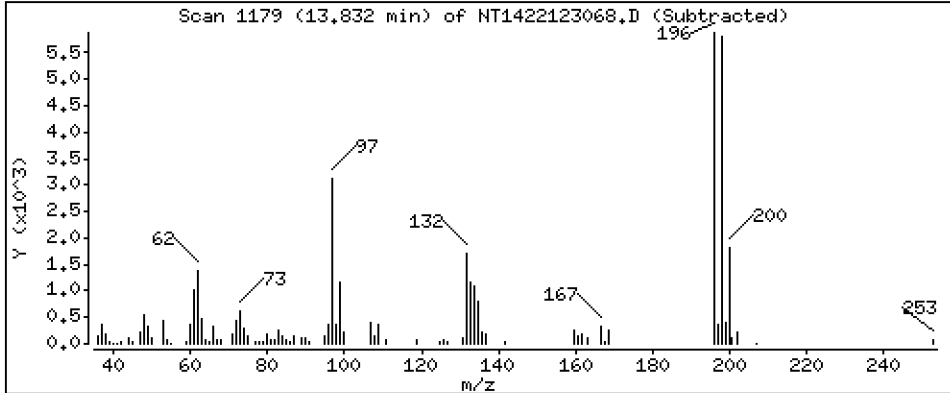
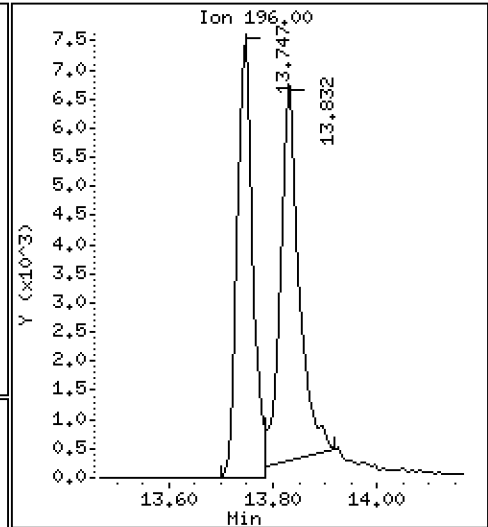
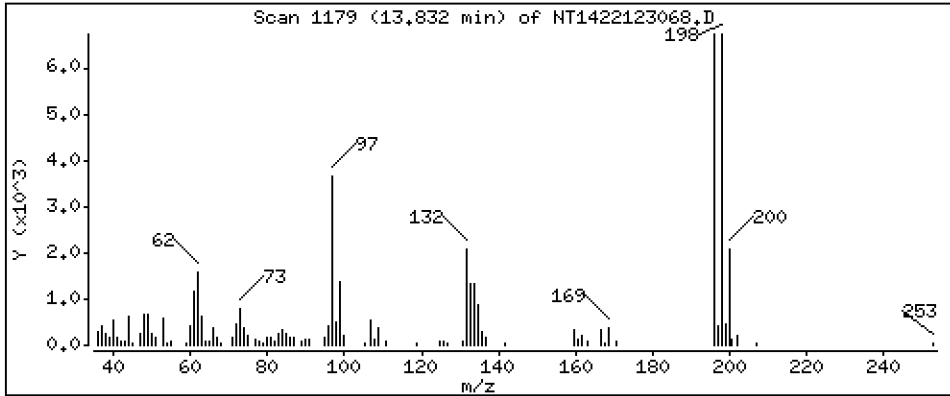
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

35 2,4,5-Trichlorophenol

Concentration: 0,8019 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

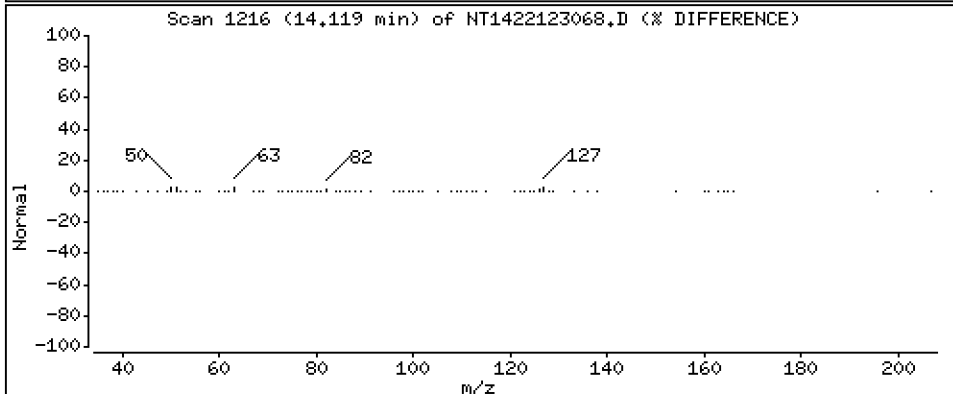
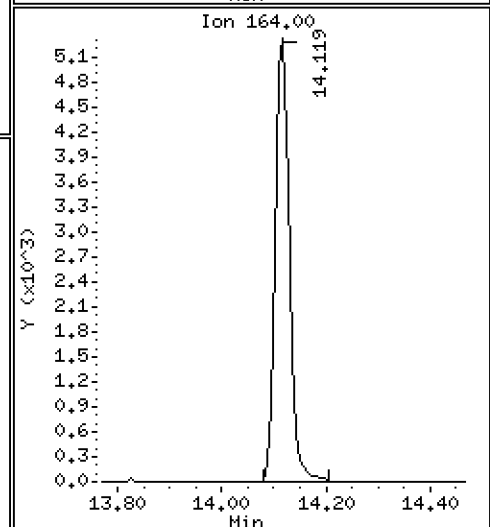
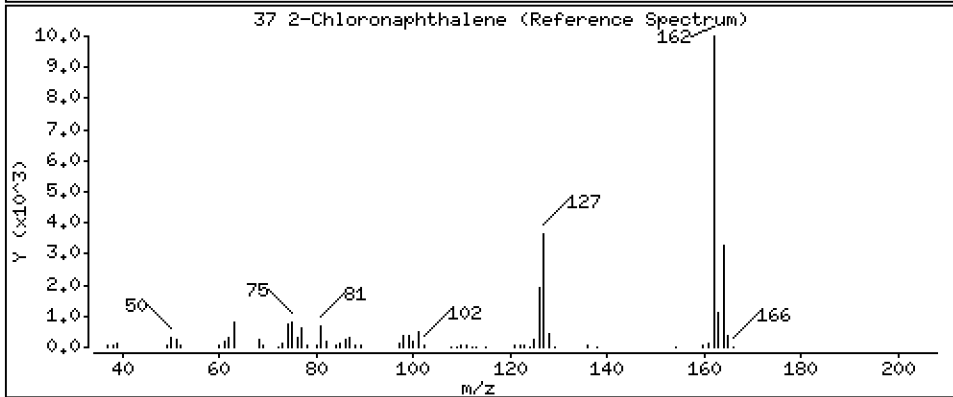
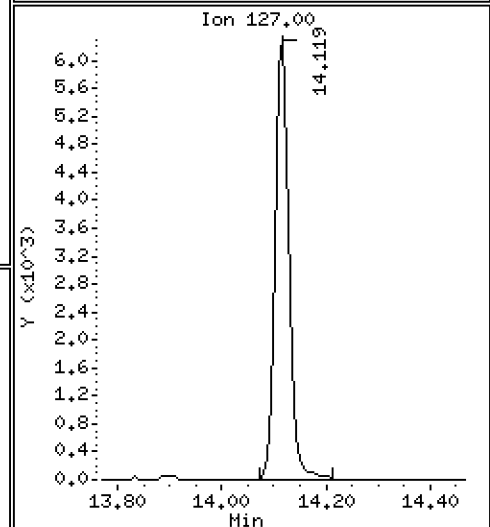
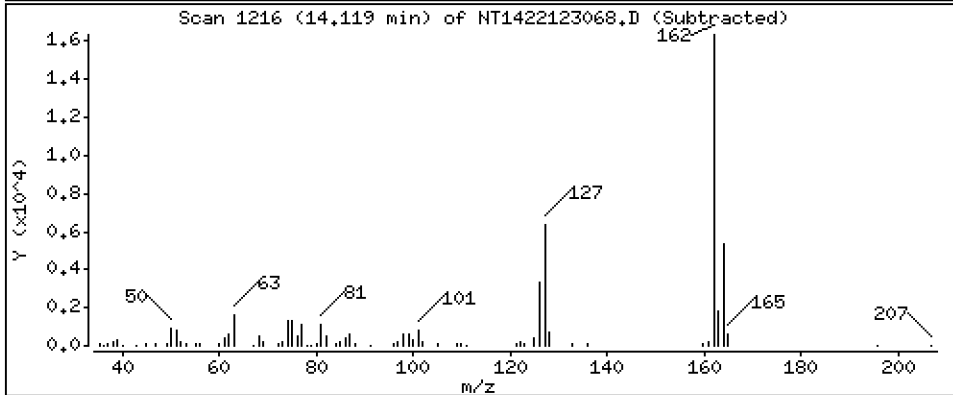
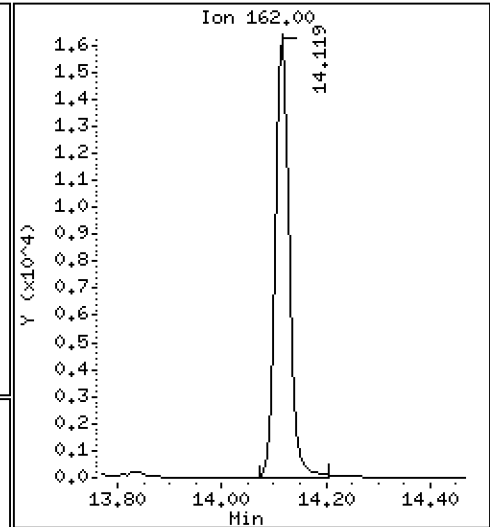
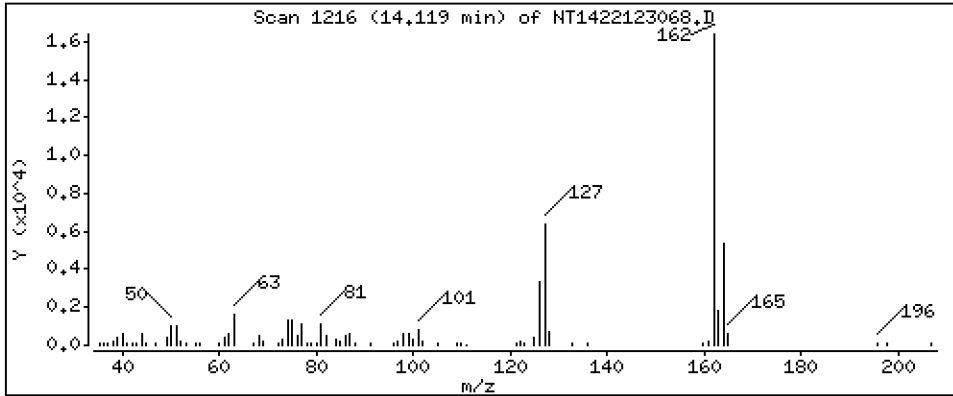
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

37 2-Chloronaphthalene

Concentration: 0,4809 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

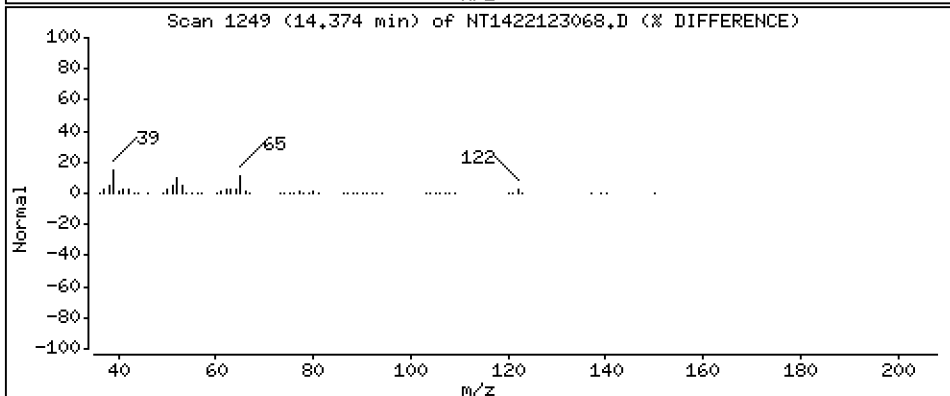
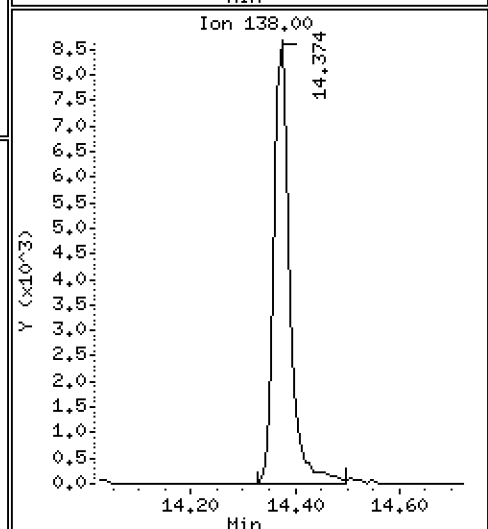
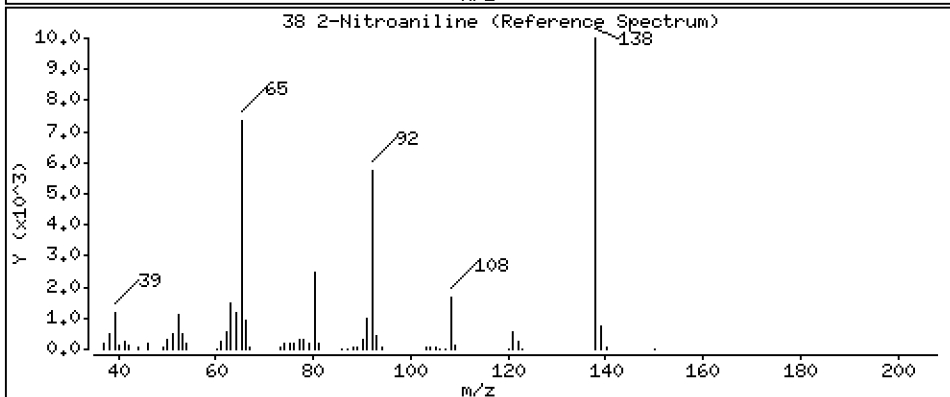
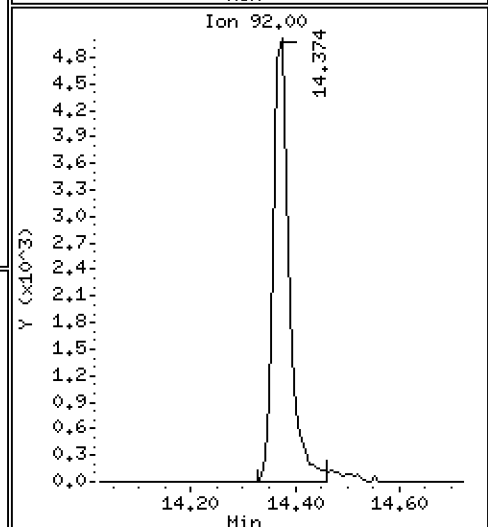
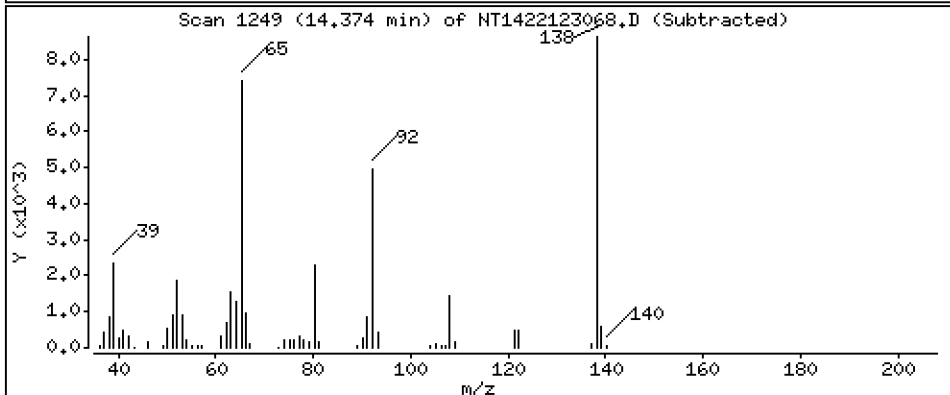
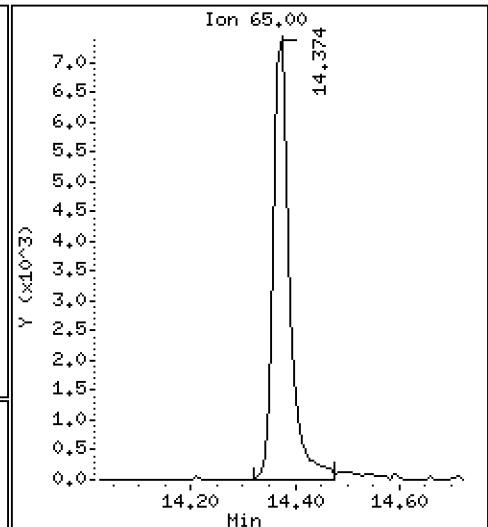
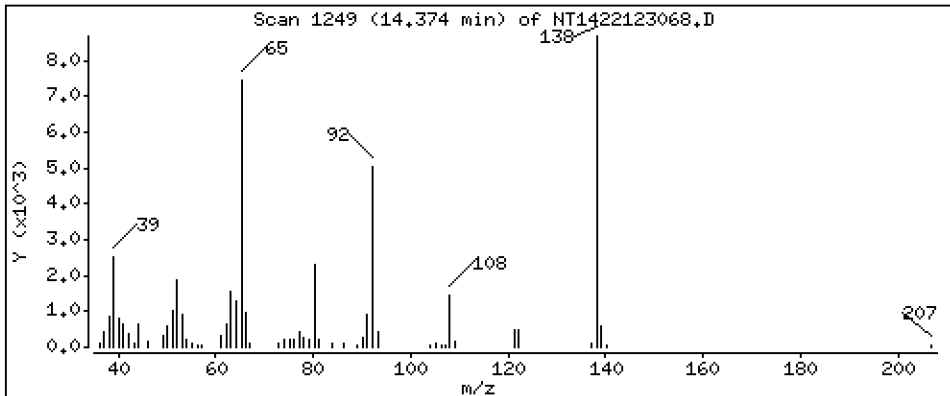
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

38 2-Nitroaniline

Concentration: 0.9872 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

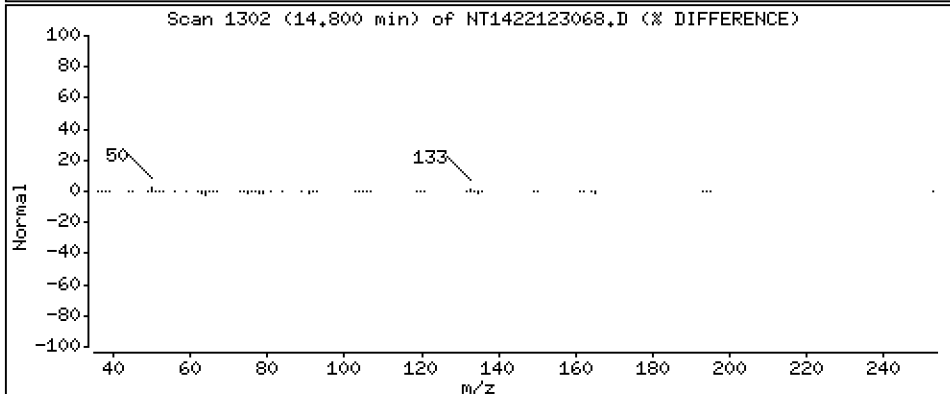
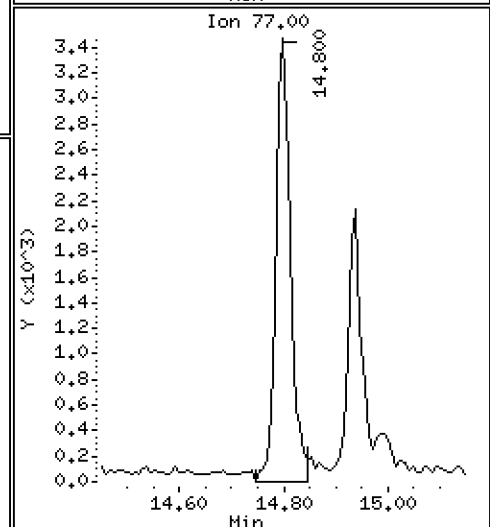
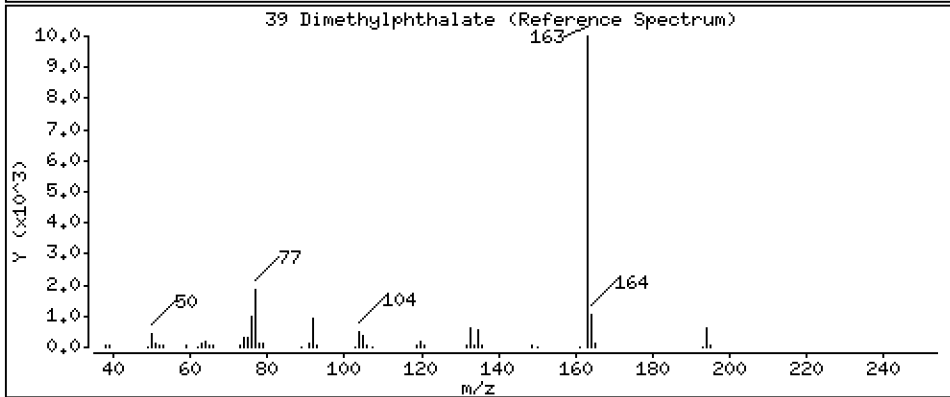
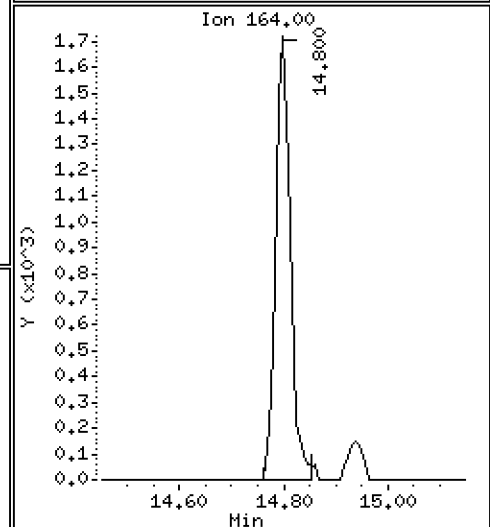
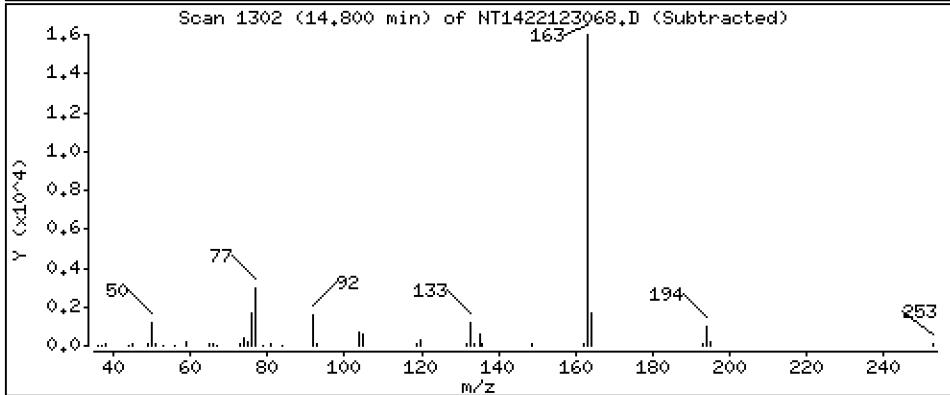
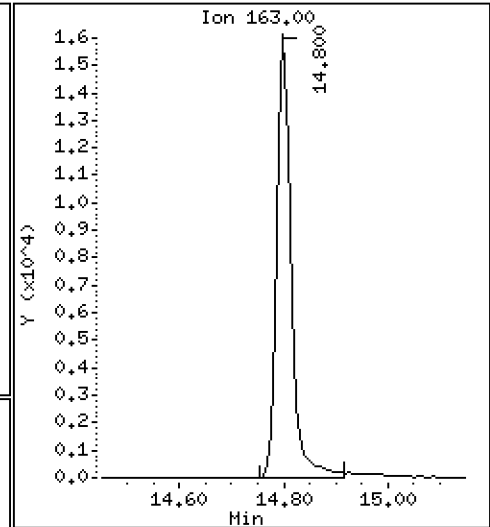
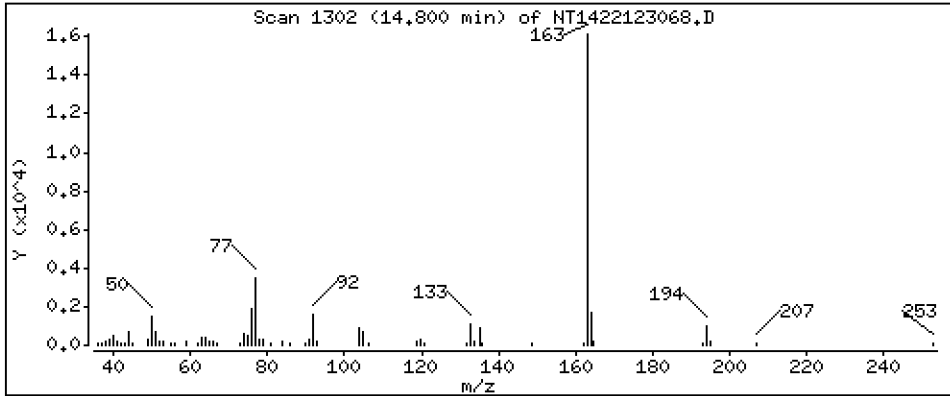
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

39 Dimethylphthalate

Concentration: 0,4956 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

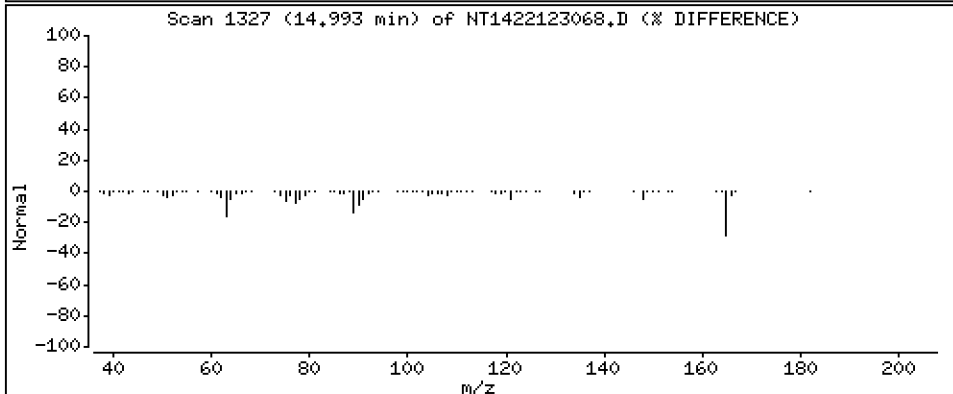
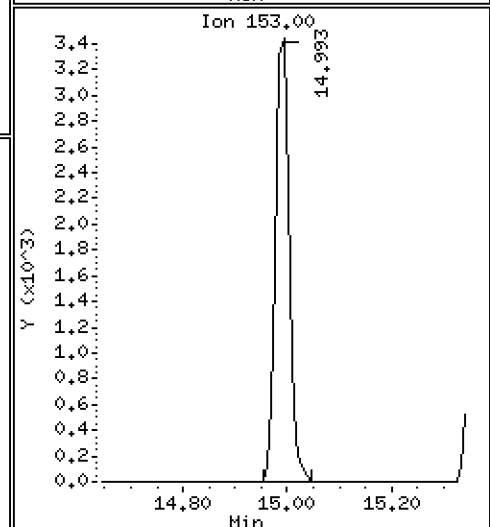
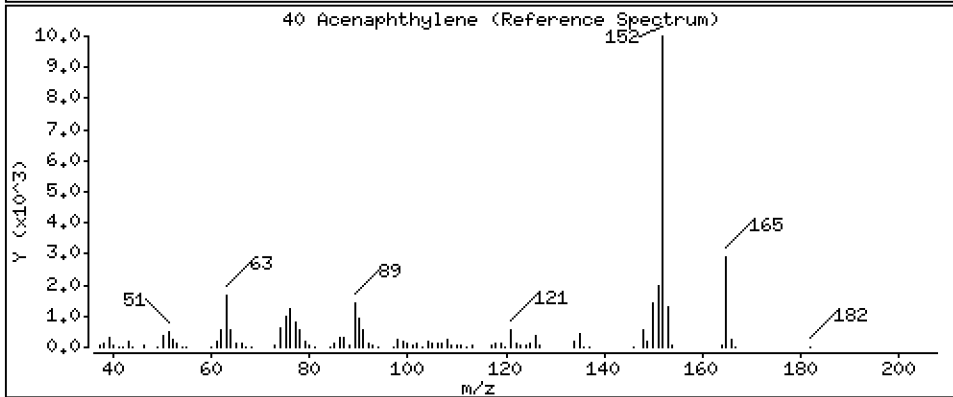
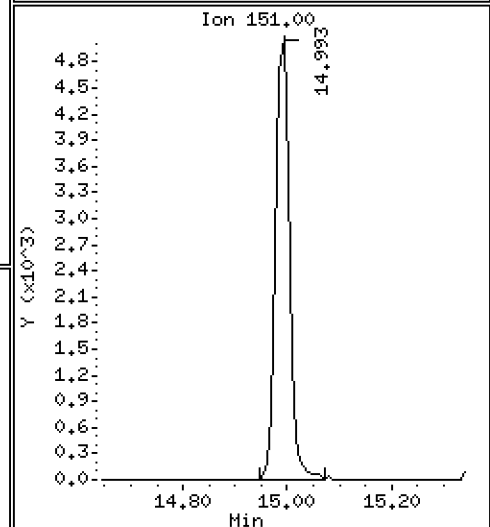
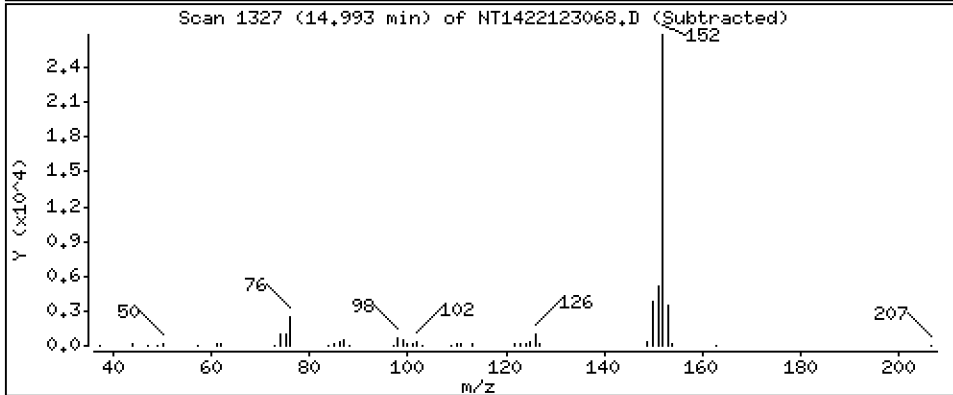
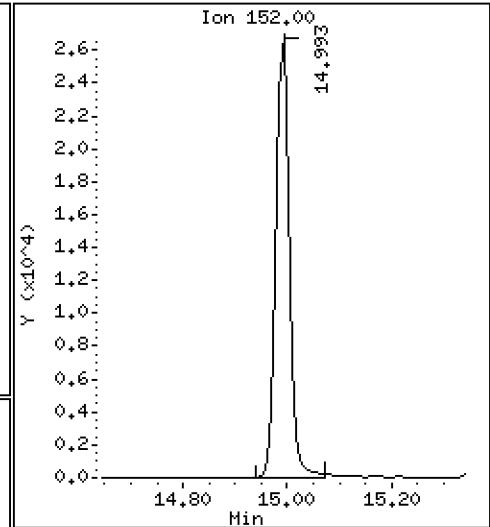
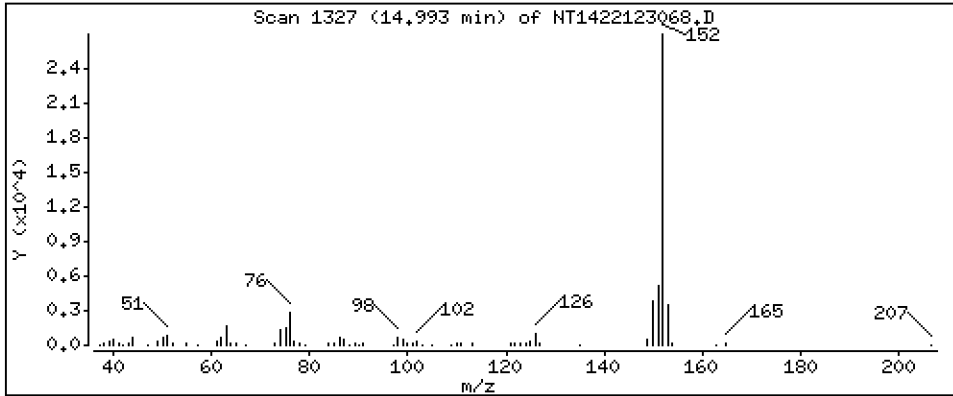
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

40 Acenaphthylene

Concentration: 0,4979 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

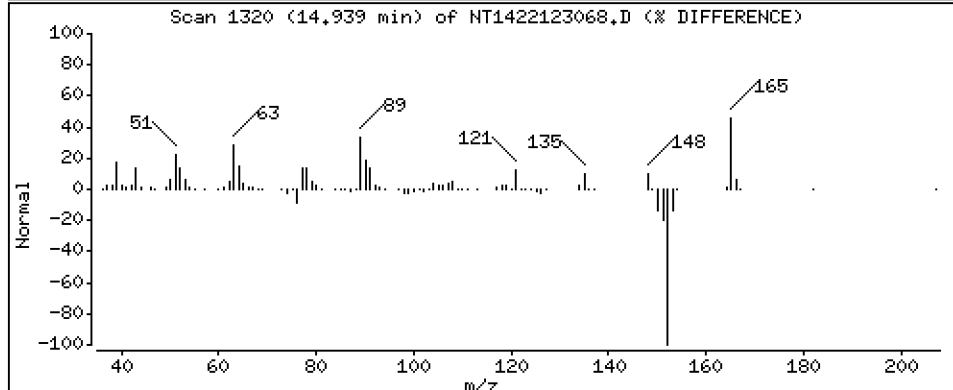
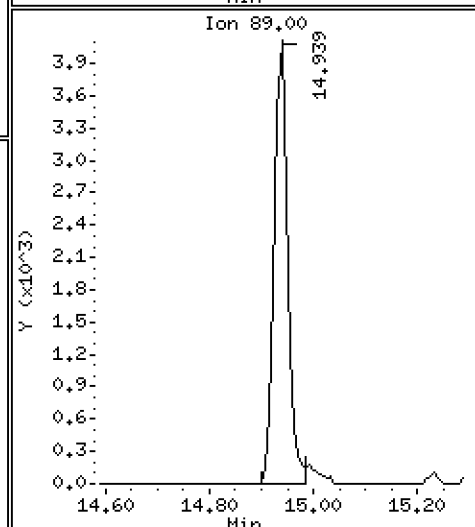
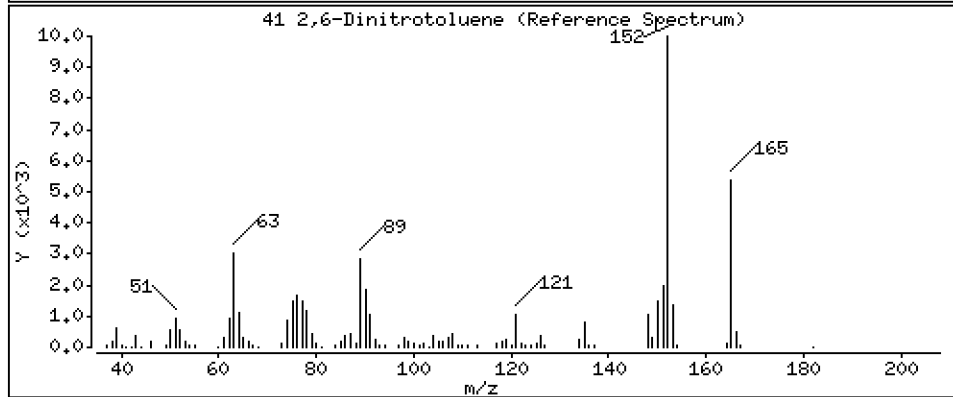
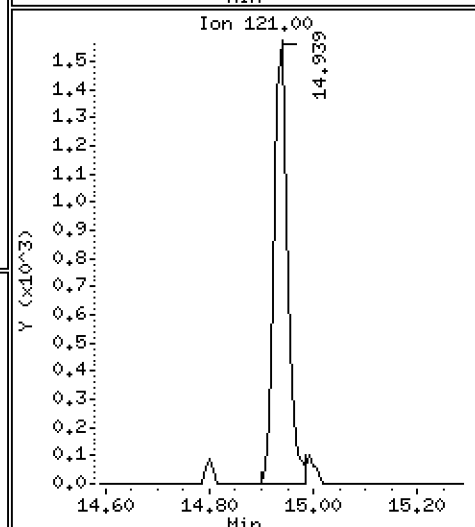
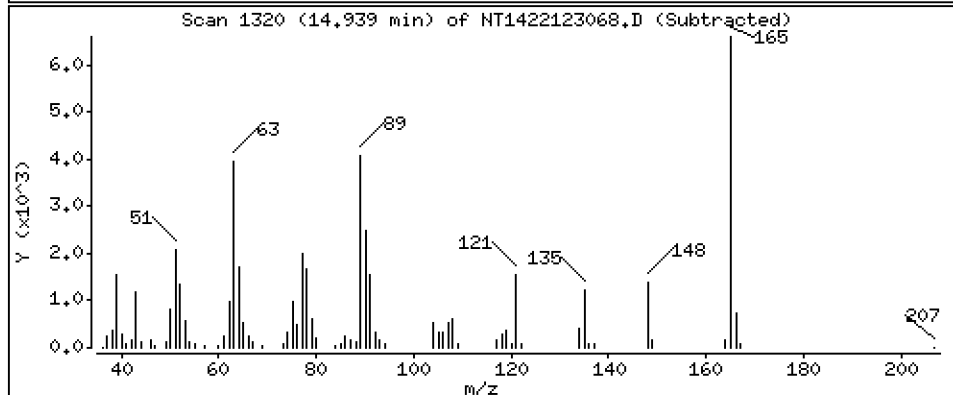
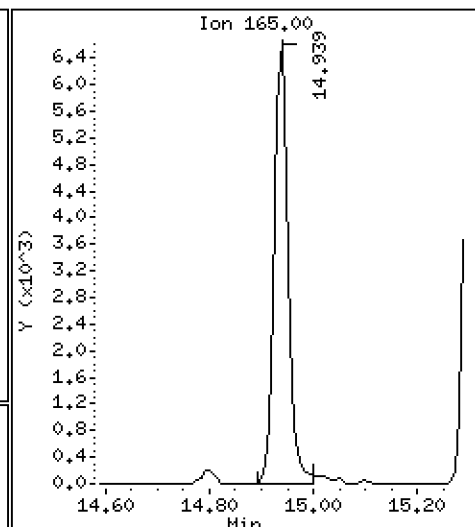
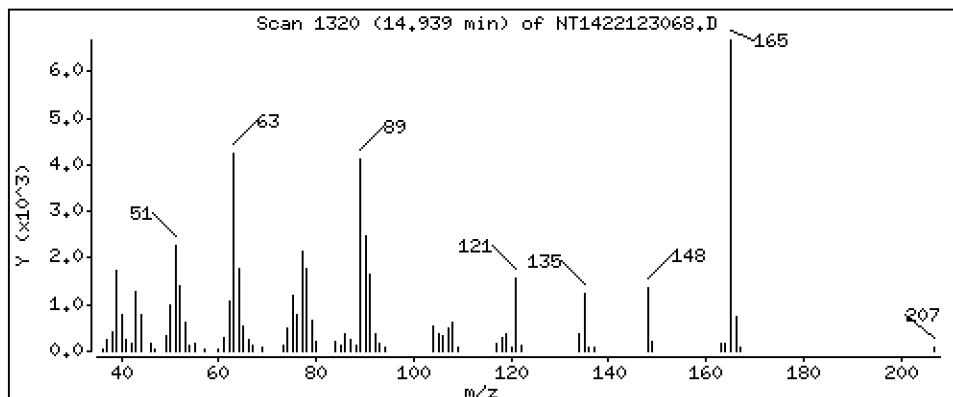
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

41 2,6-Dinitrotoluene

Concentration: 0,8726 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

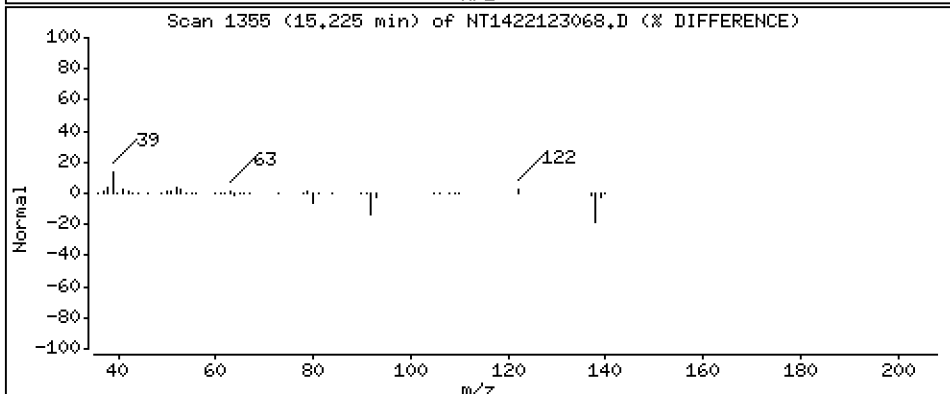
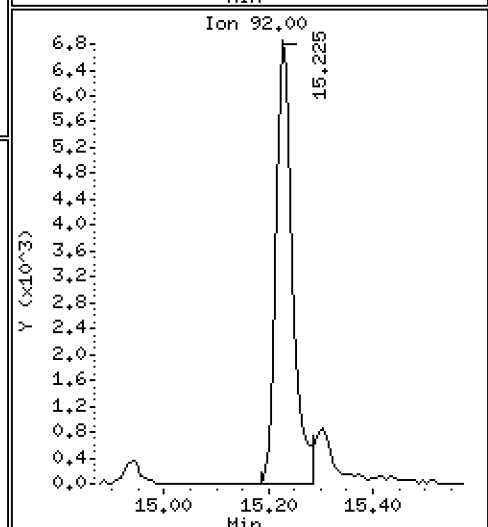
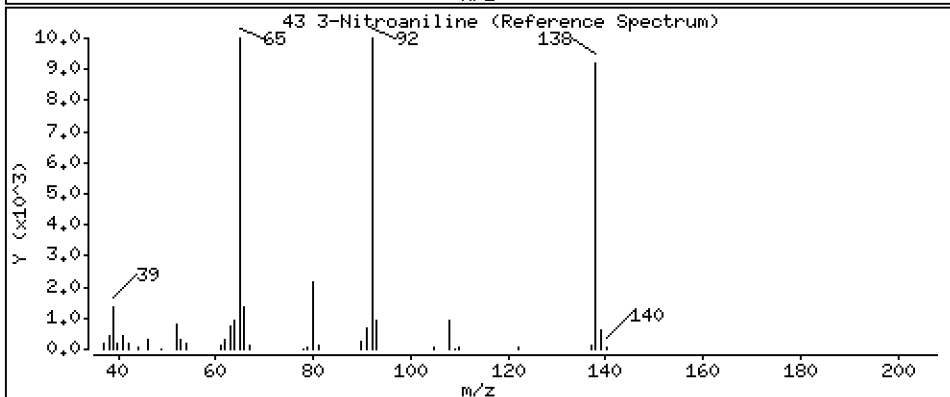
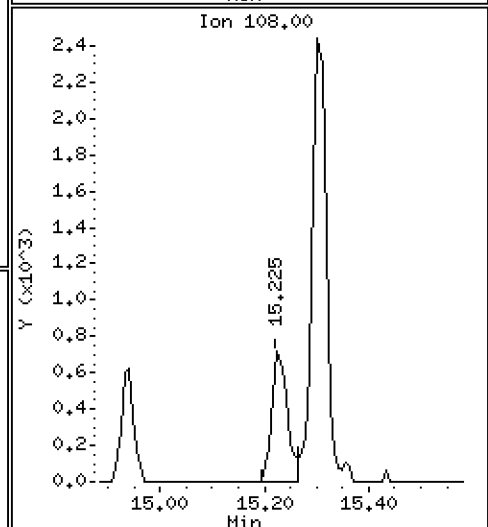
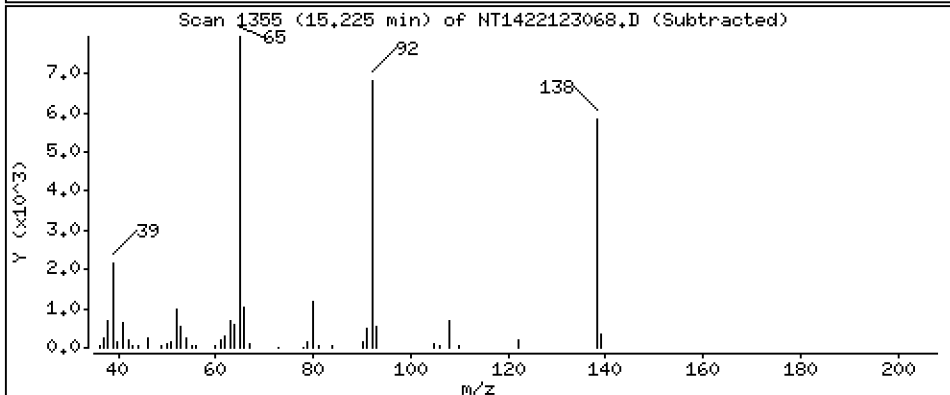
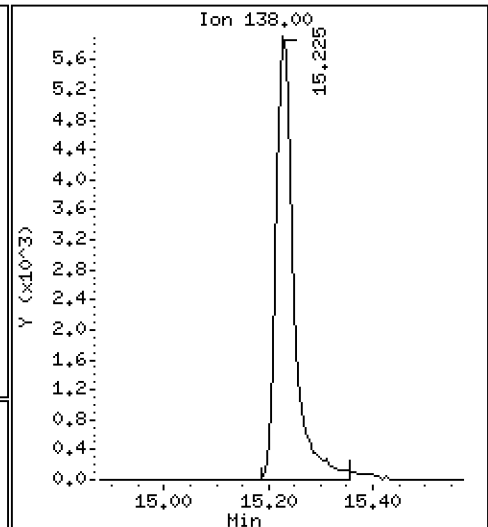
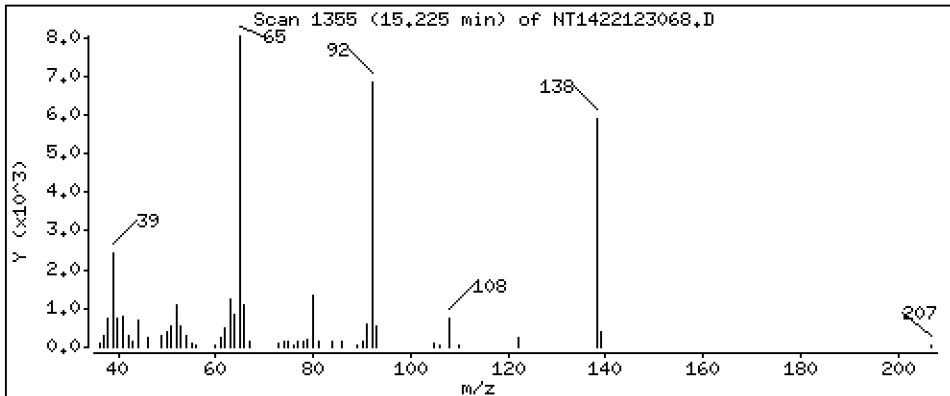
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

43 3-Nitroaniline

Concentration: 0,8487 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

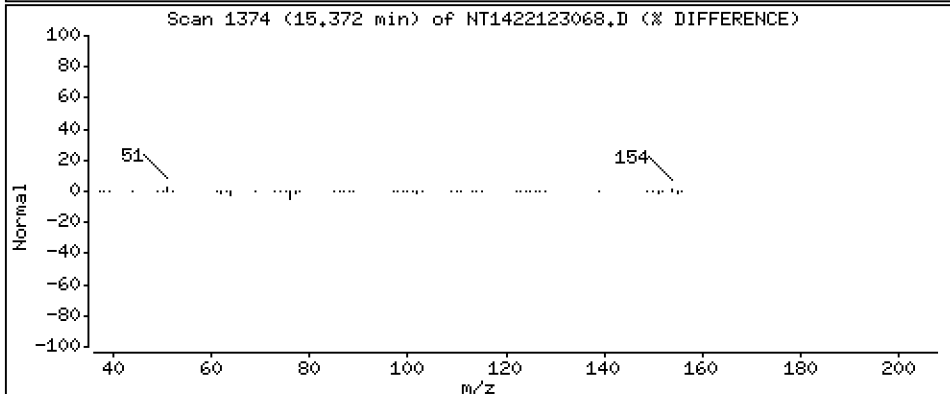
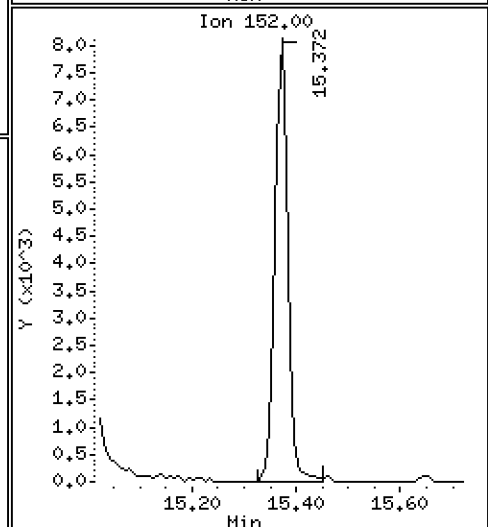
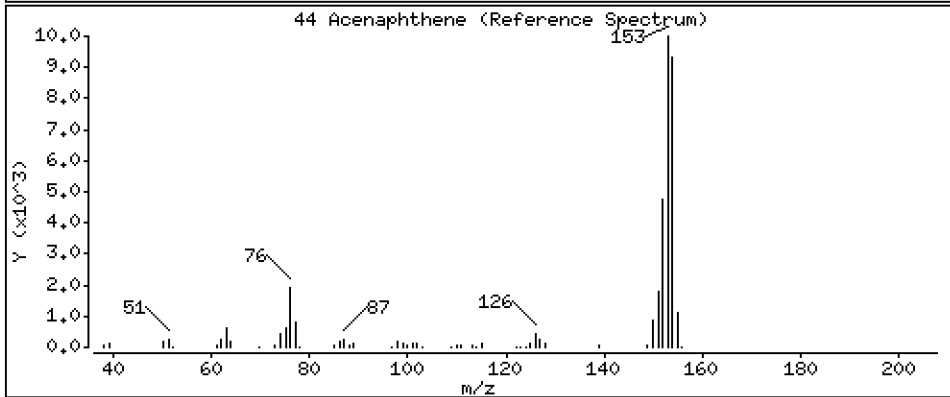
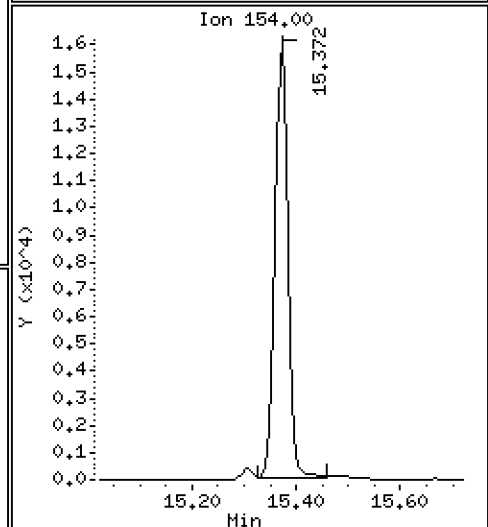
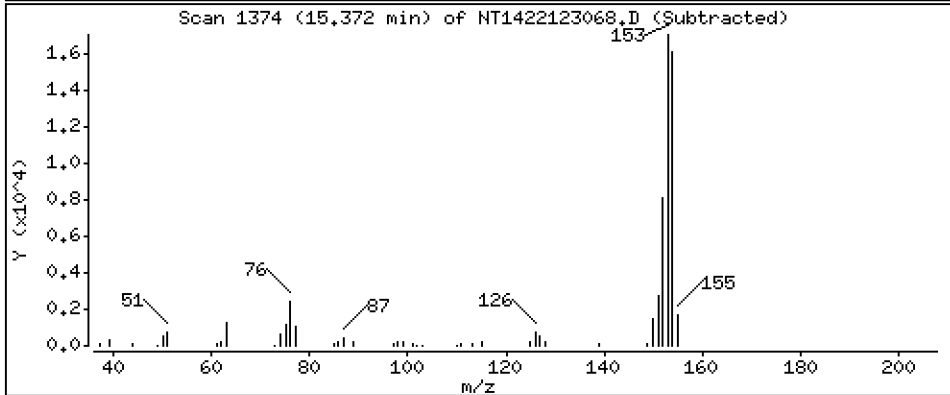
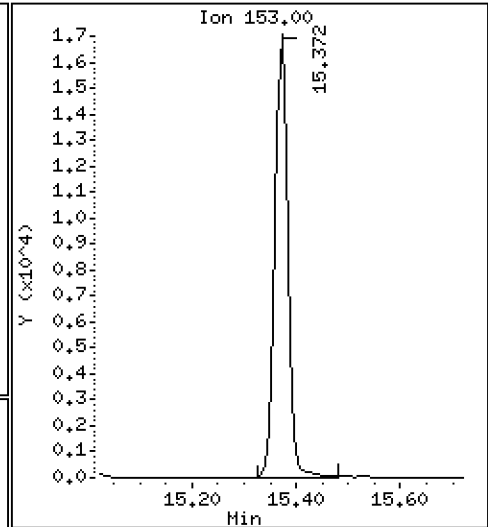
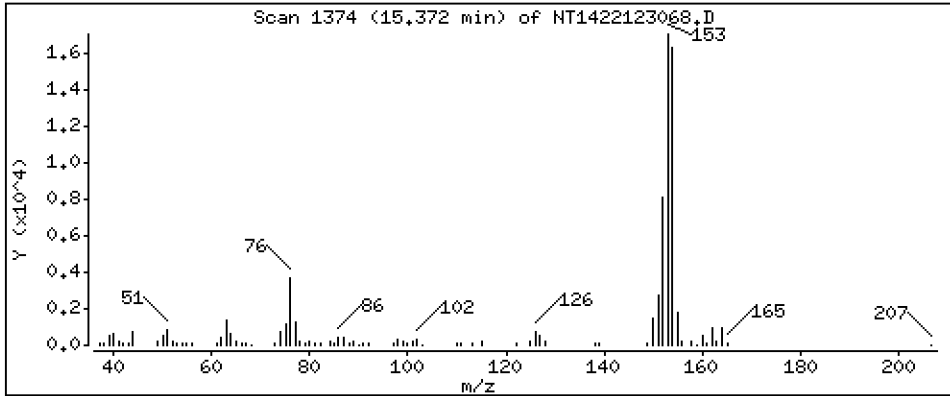
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

44 Acenaphthene

Concentration: 0.4955 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

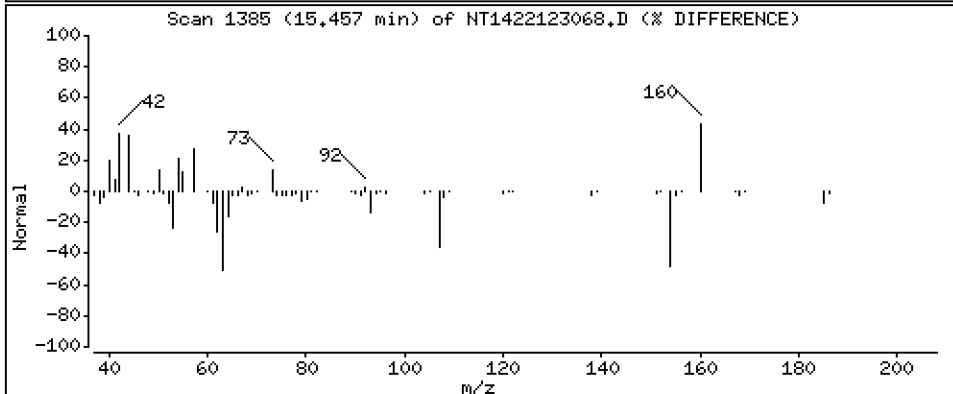
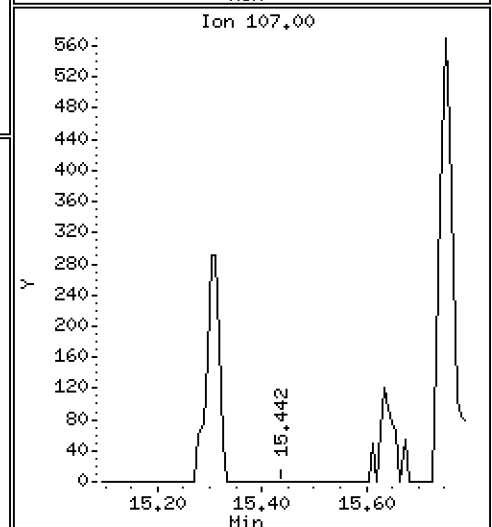
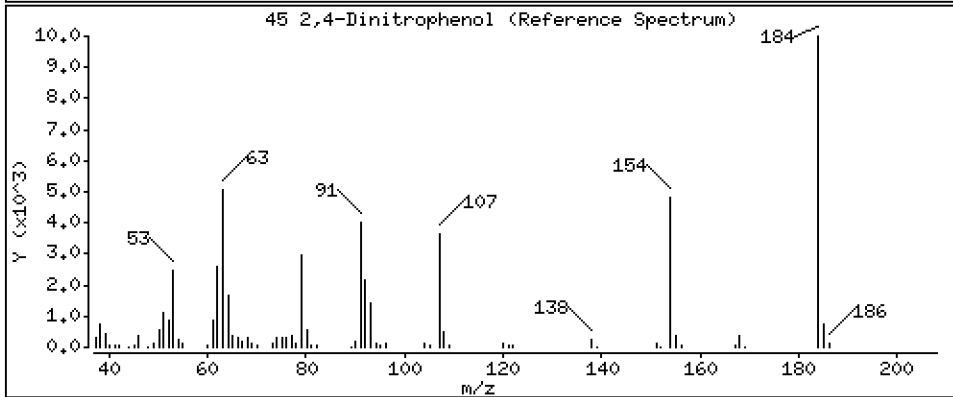
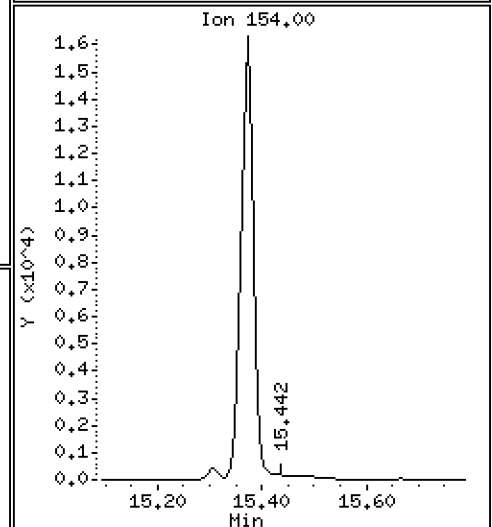
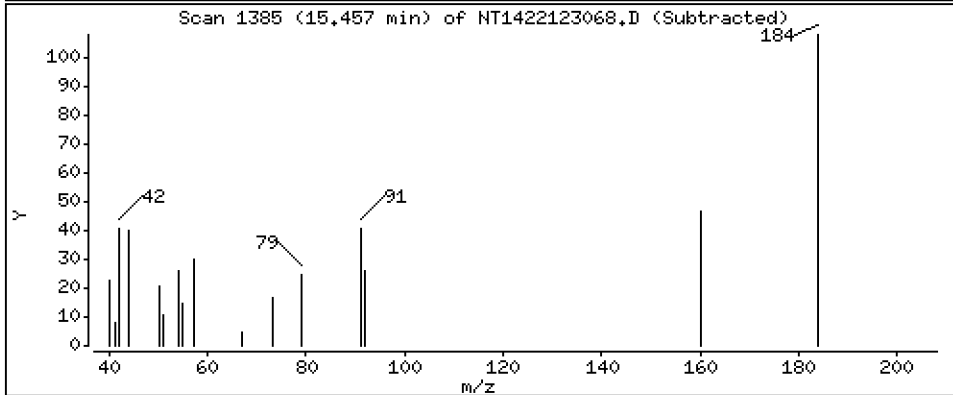
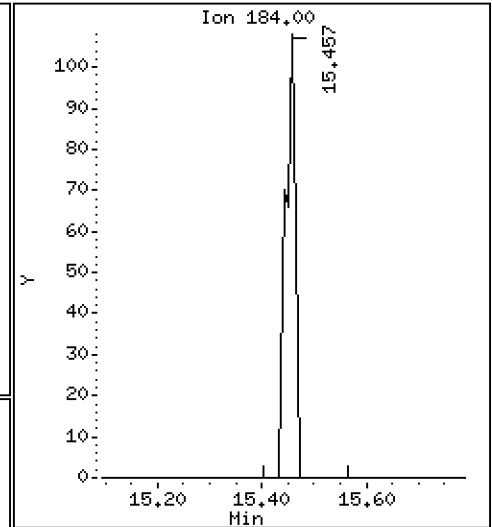
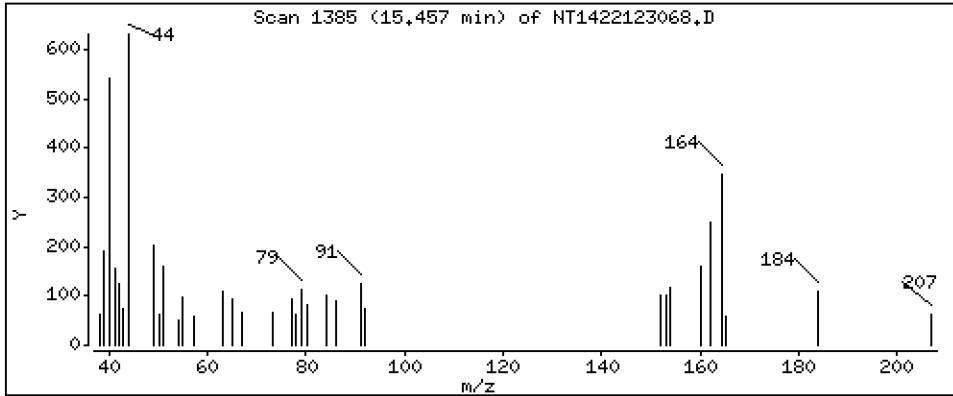
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

45 2,4-Dinitrophenol

Concentration: 0,01232 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

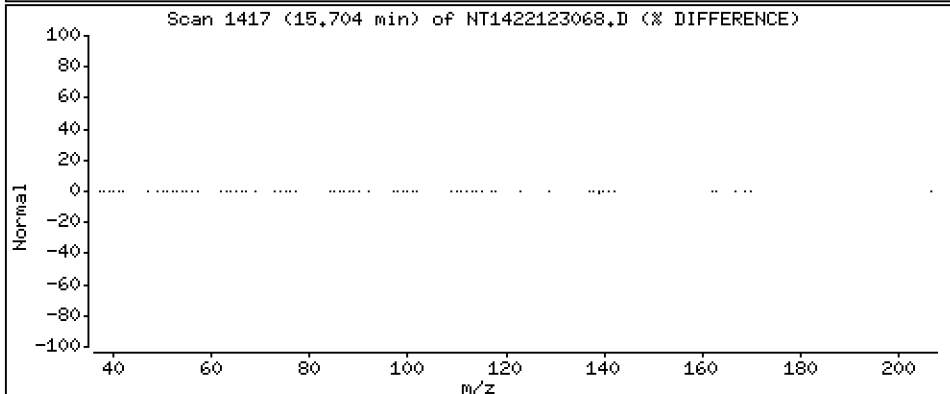
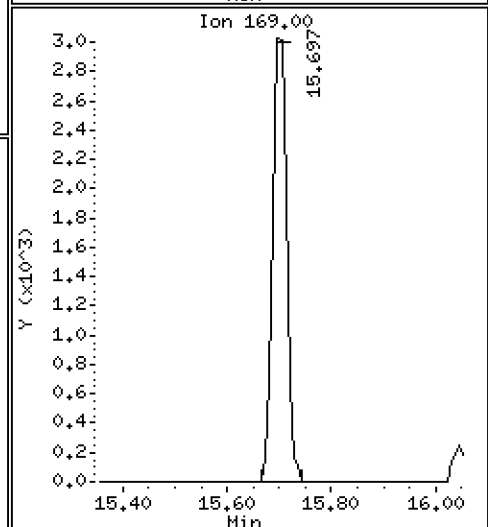
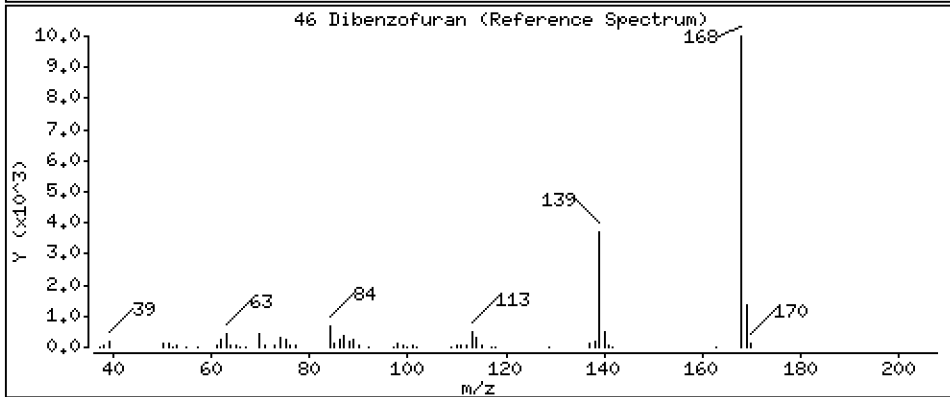
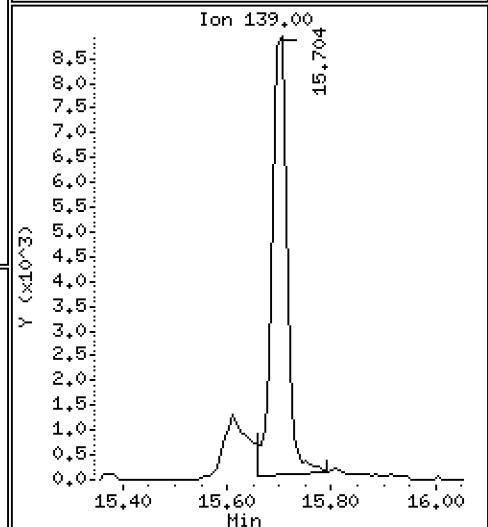
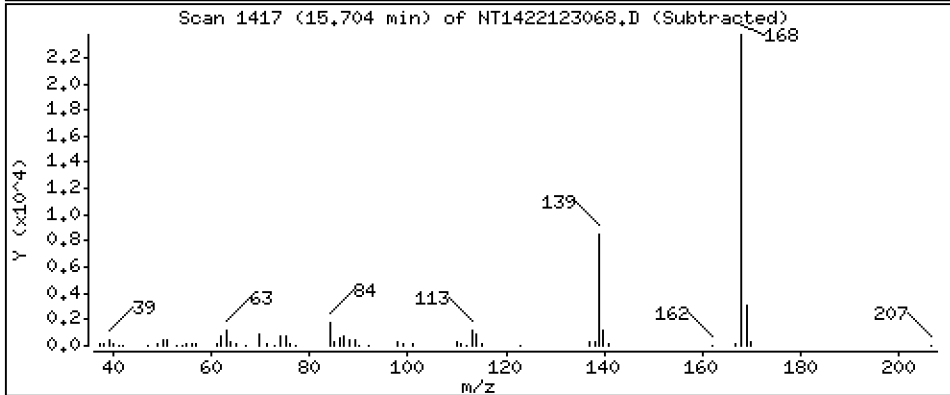
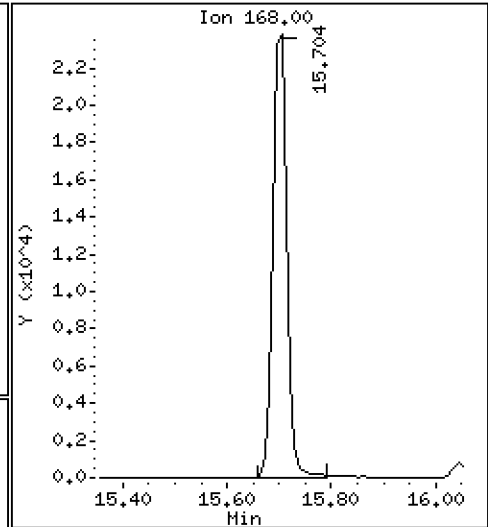
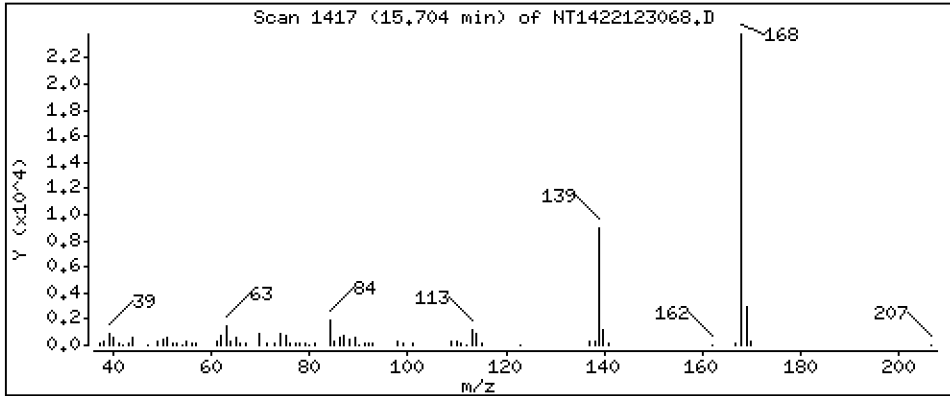
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

46 Dibenzofuran

Concentration: 0,4928 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

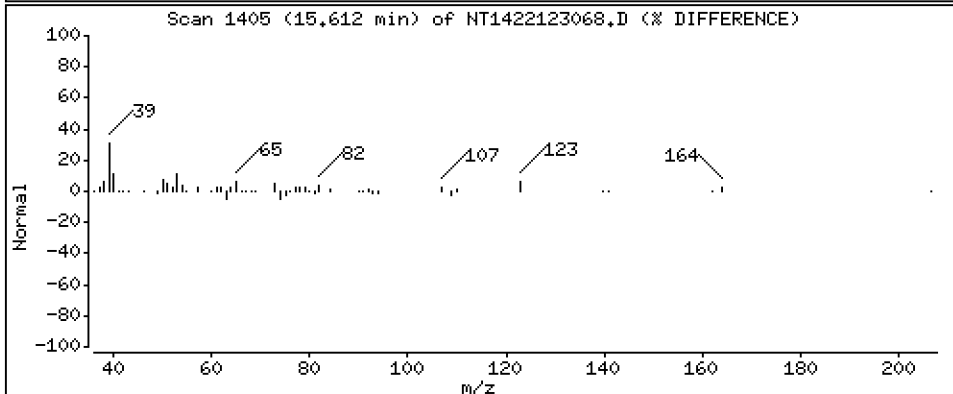
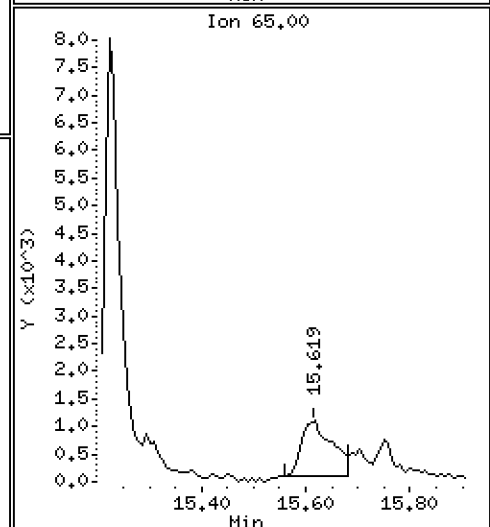
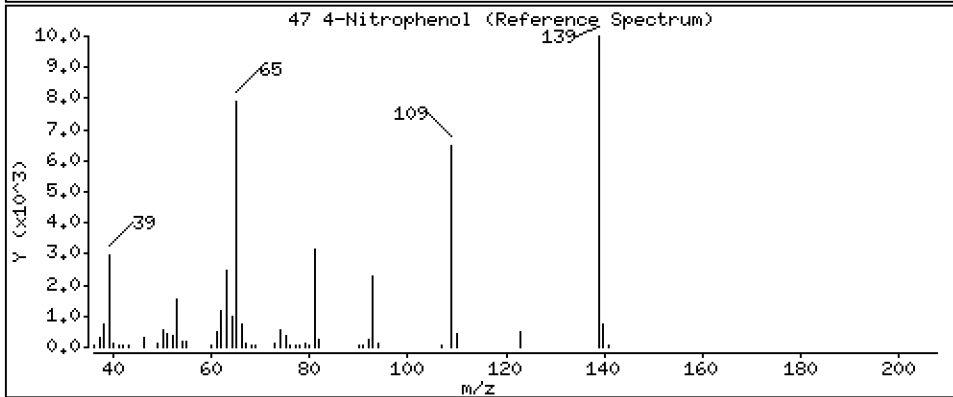
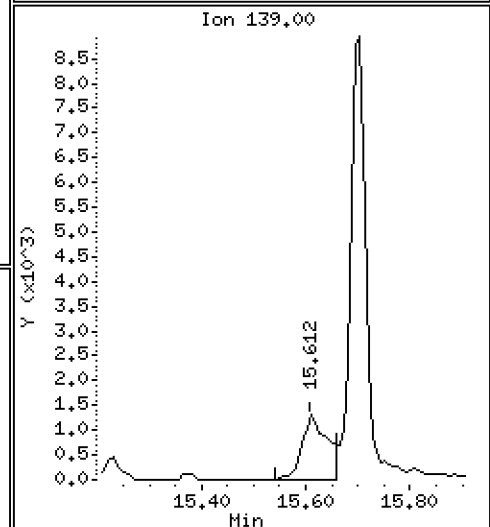
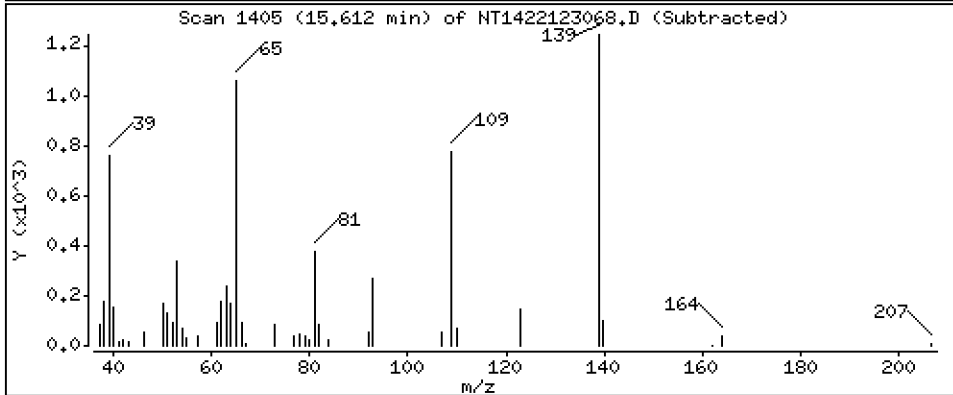
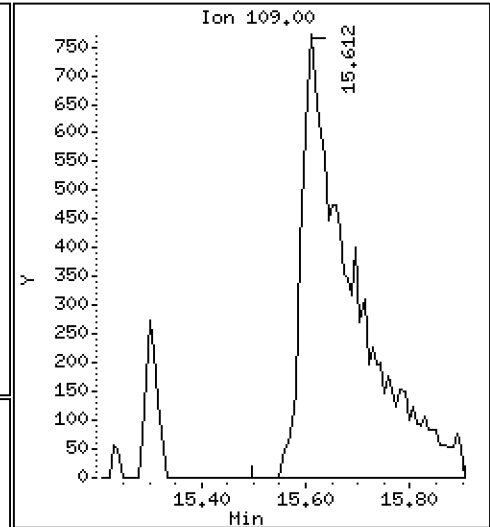
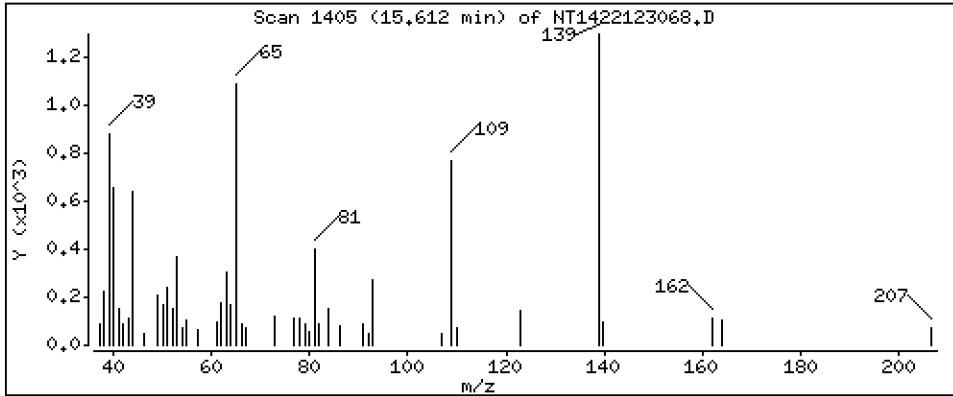
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

47 4-Nitrophenol

Concentration: 0,6719 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

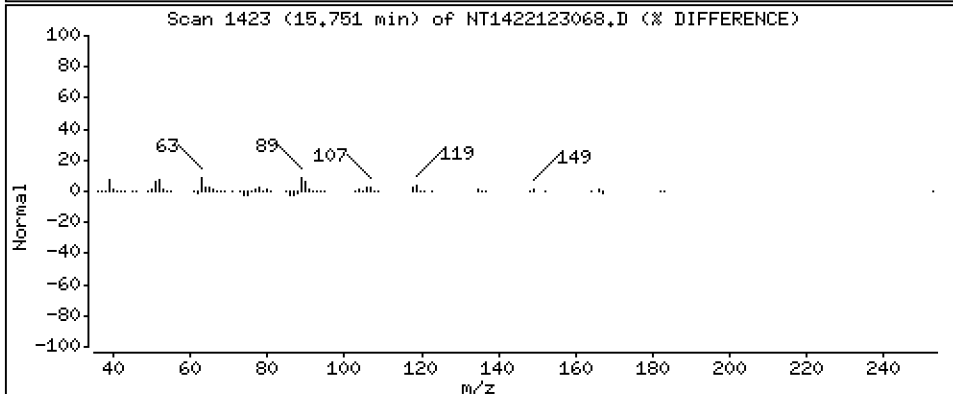
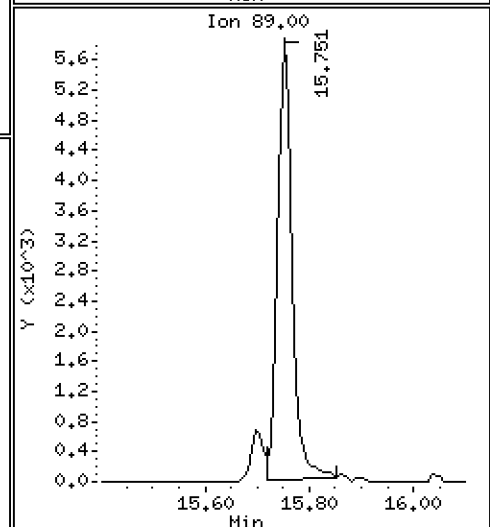
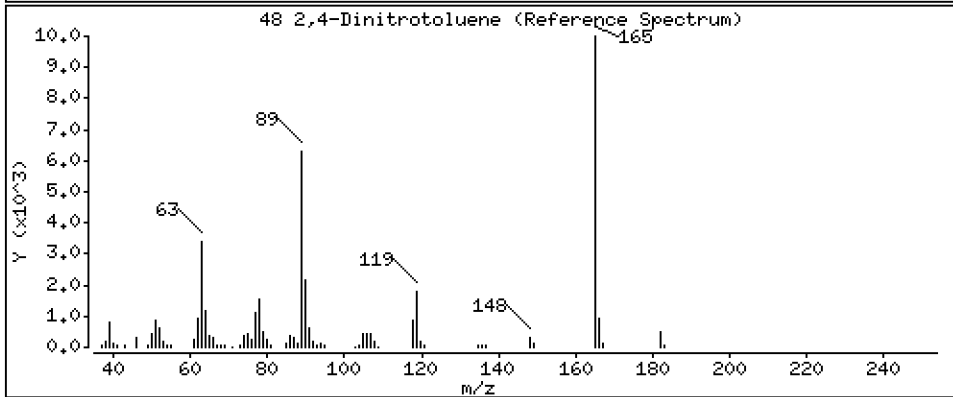
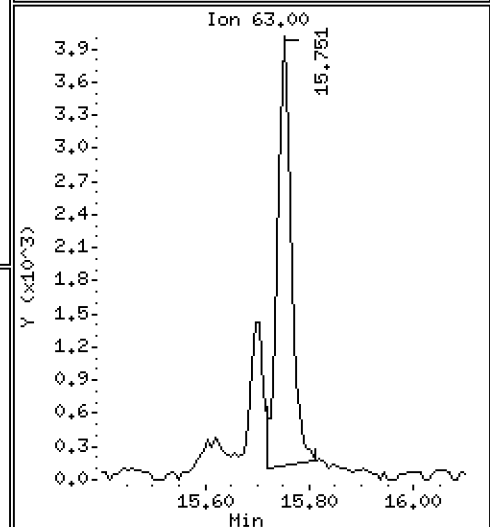
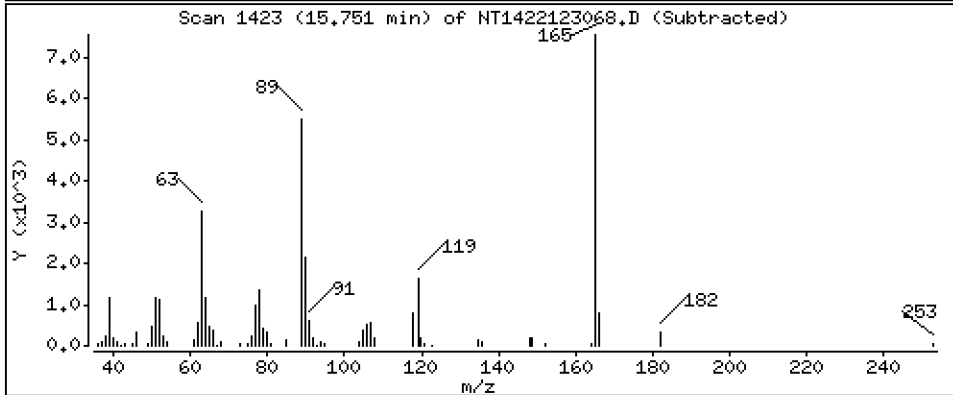
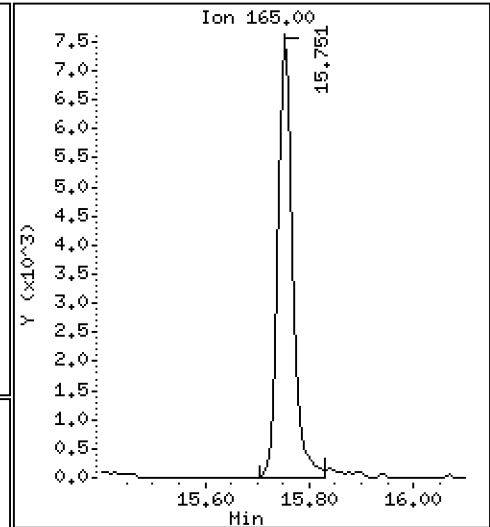
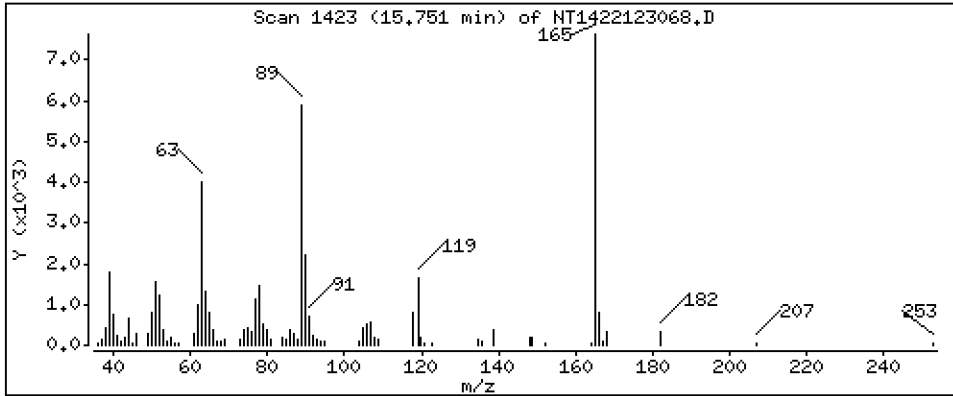
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

48 2,4-Dinitrotoluene

Concentration: 0,7780 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

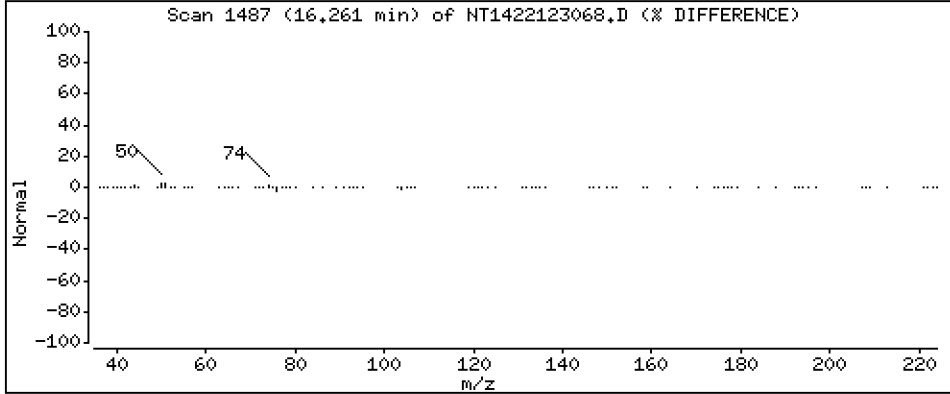
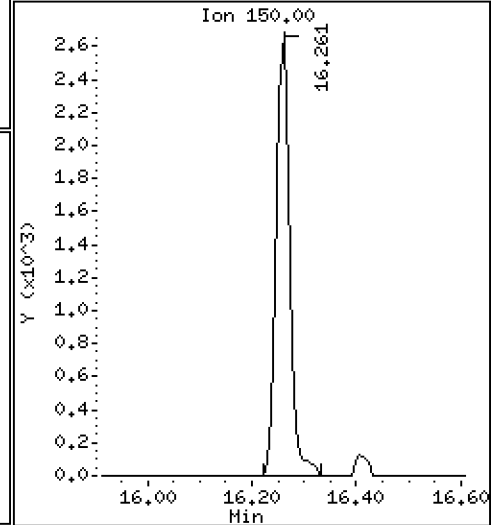
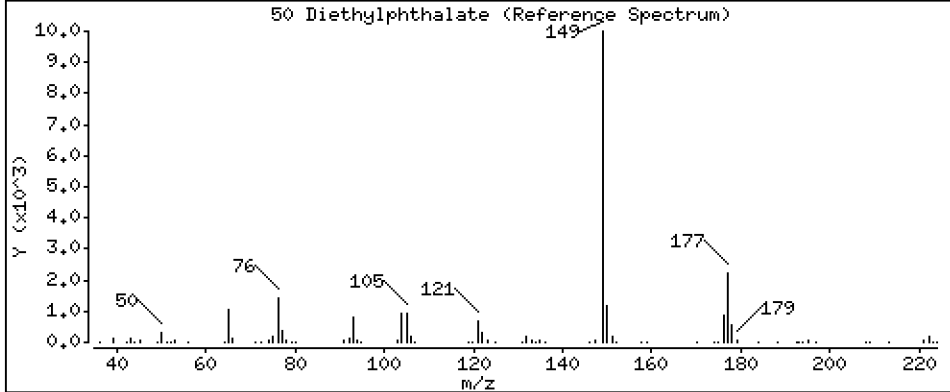
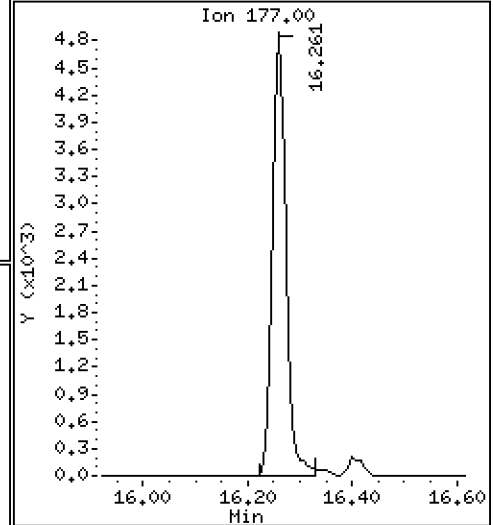
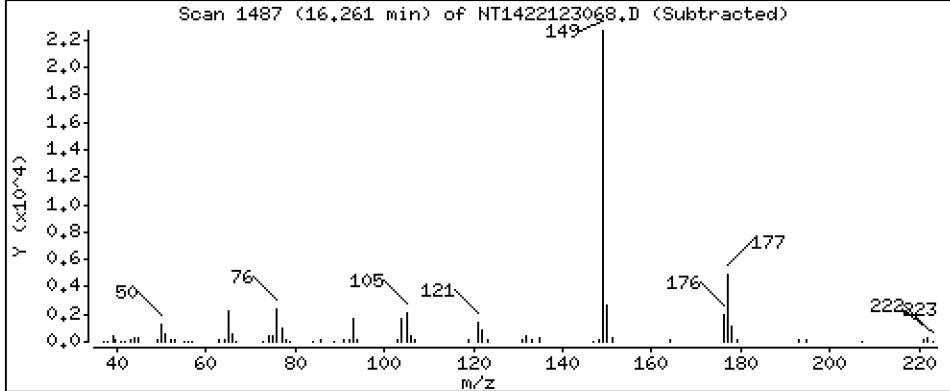
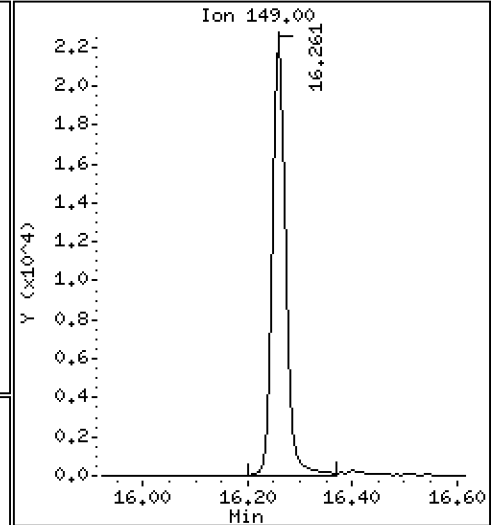
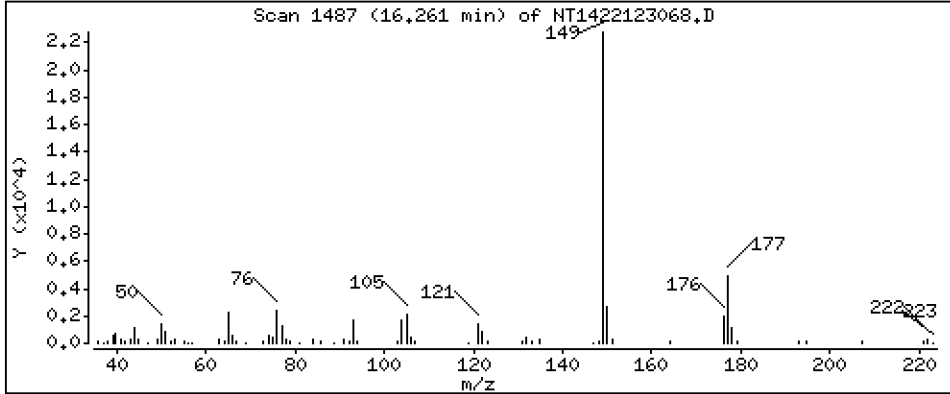
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

50 Diethylphthalate

Concentration: 0.5719 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

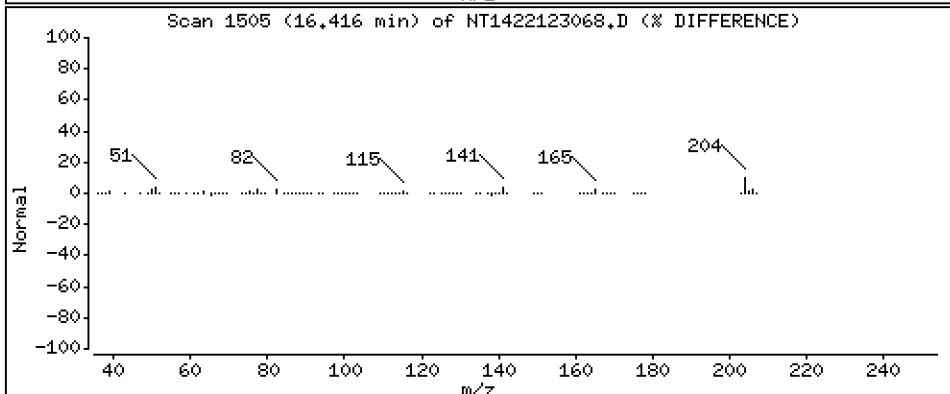
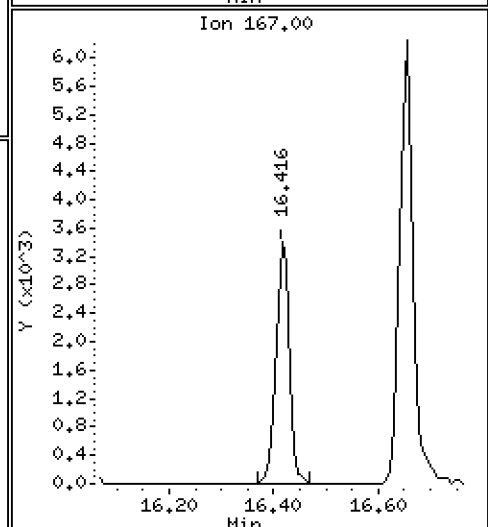
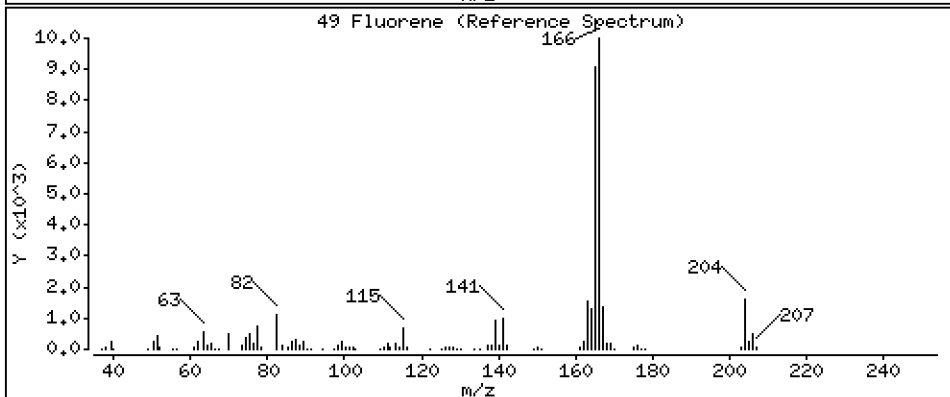
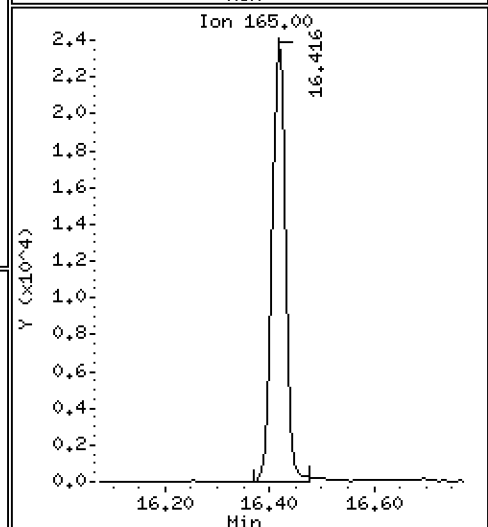
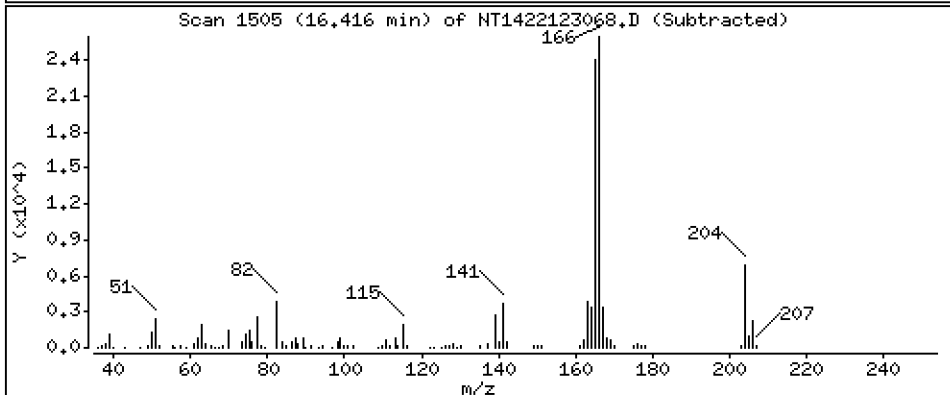
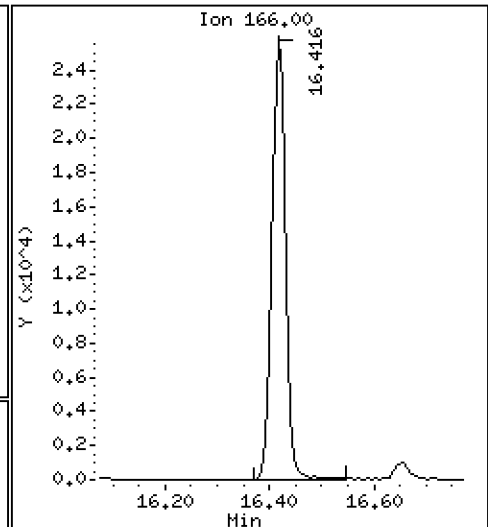
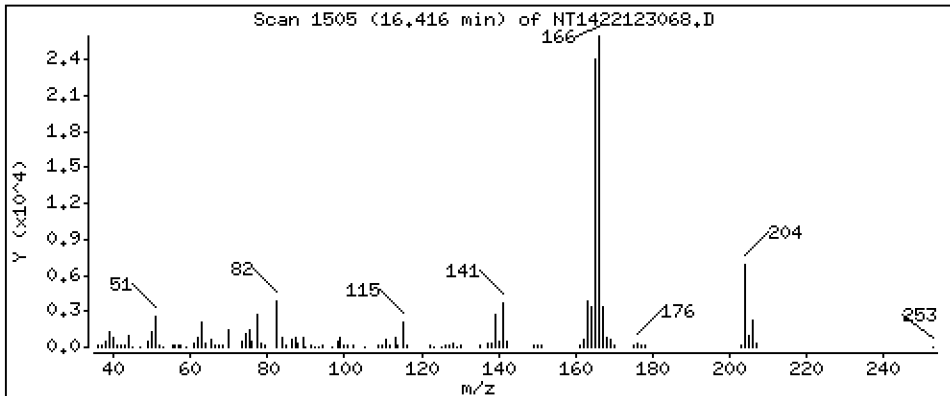
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

49 Fluorene

Concentration: 0,4880 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

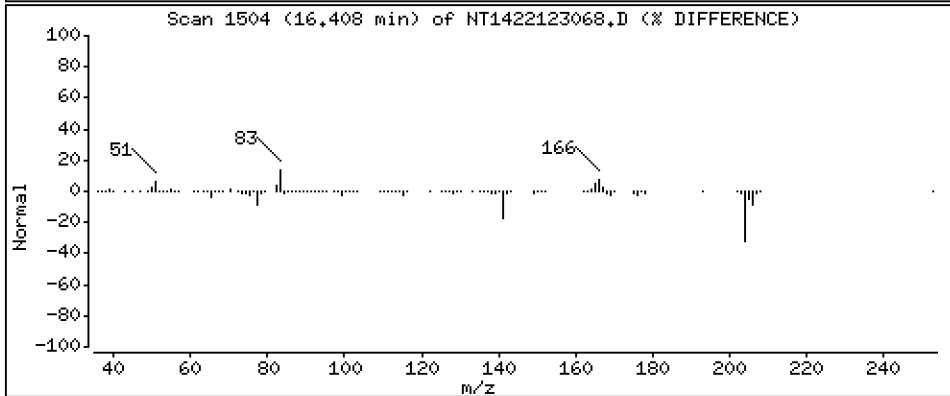
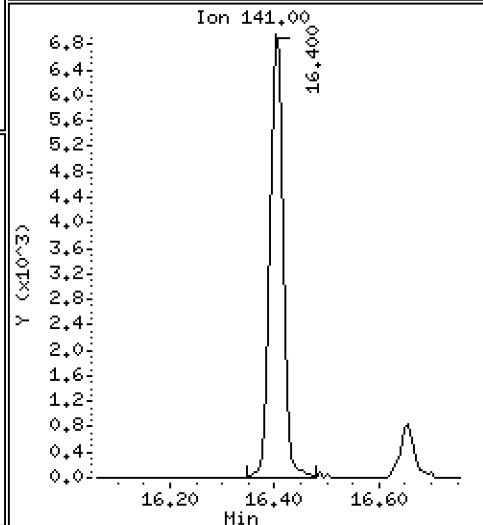
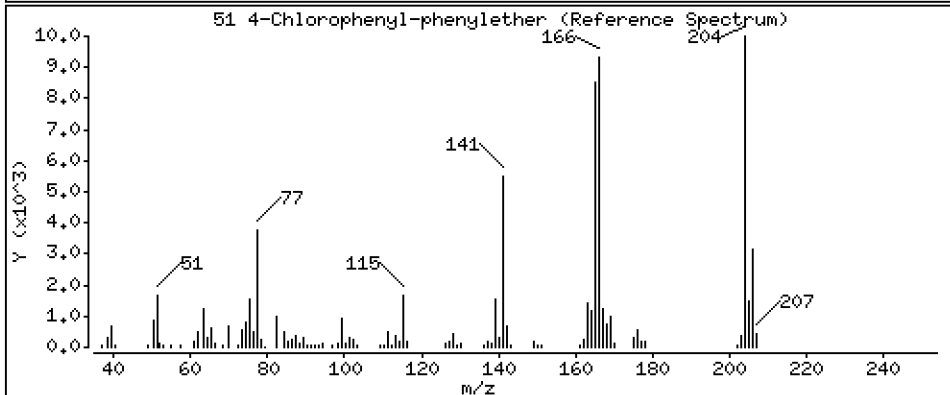
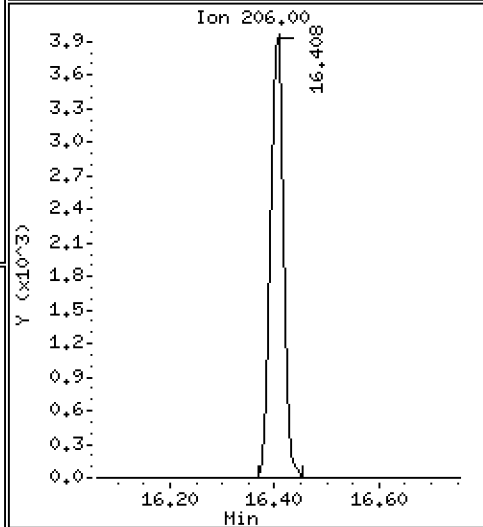
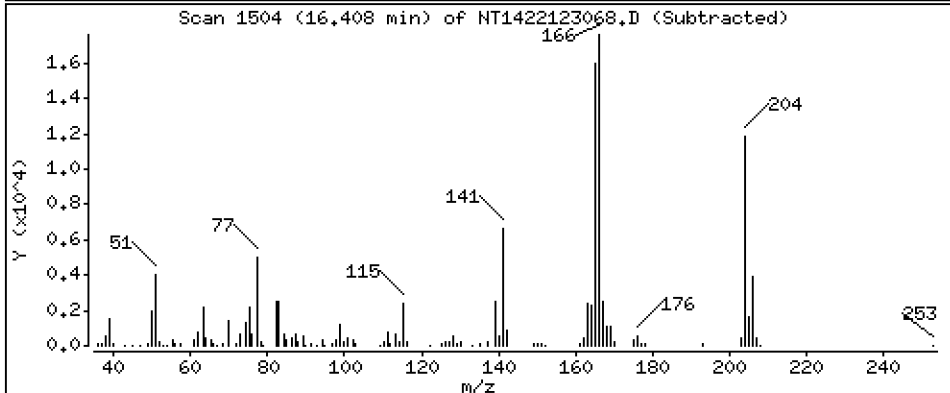
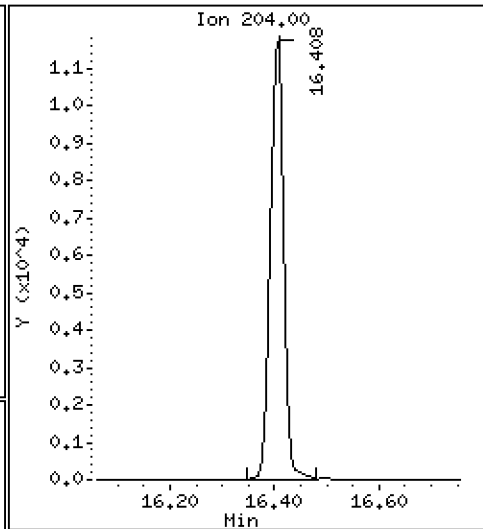
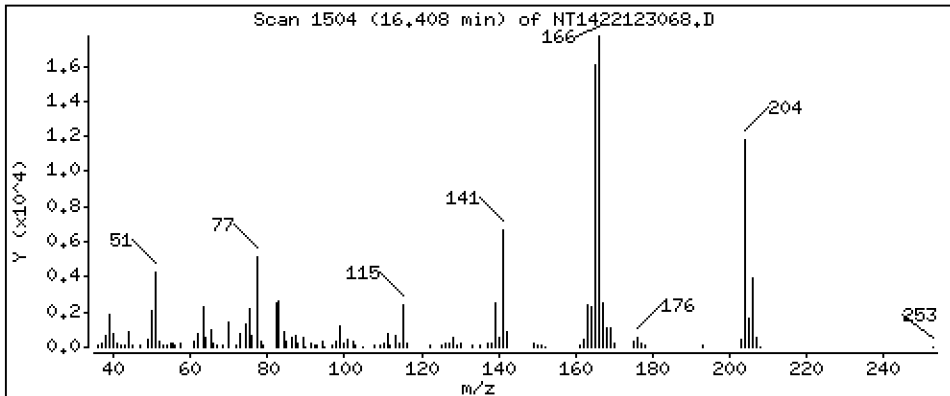
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

51 4-Chlorophenyl-phenylether

Concentration: 0,5123 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

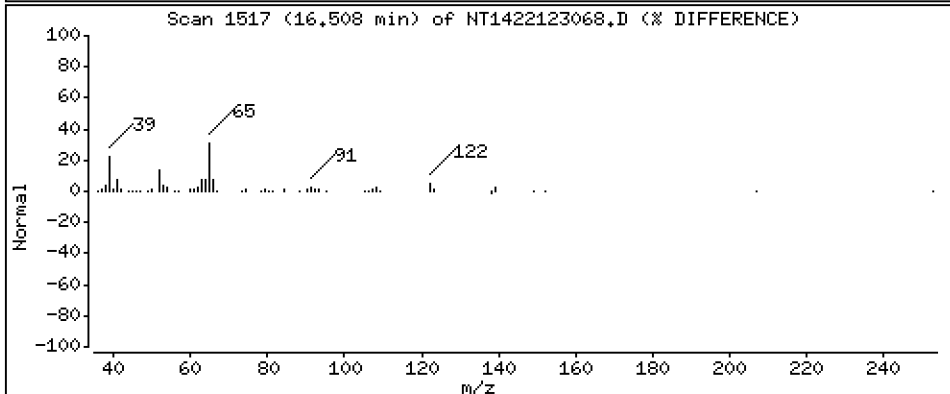
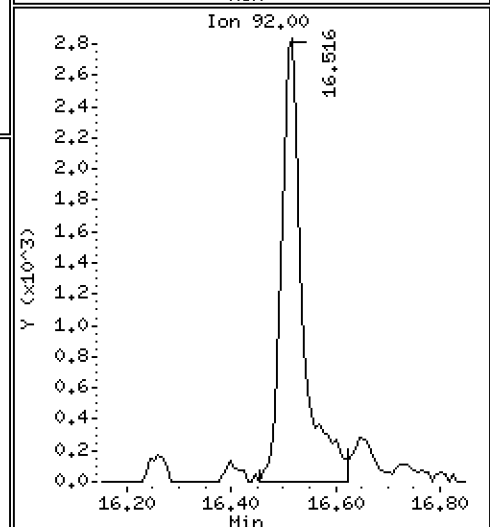
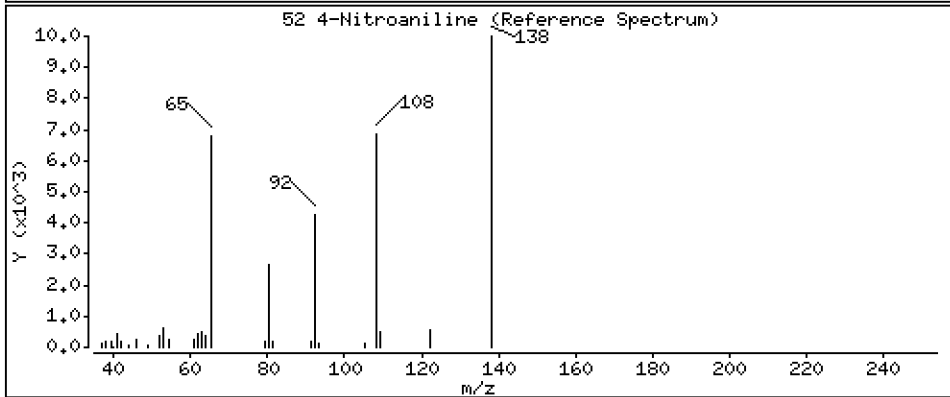
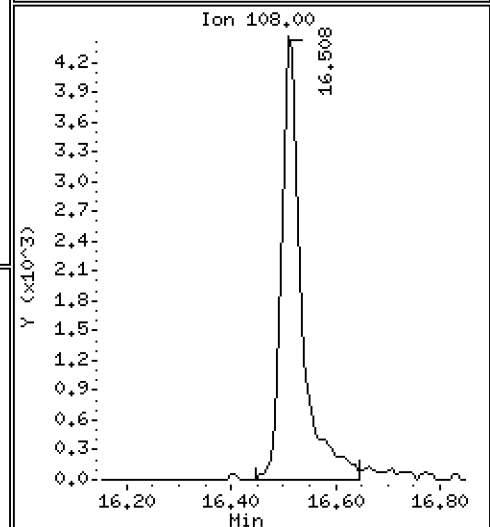
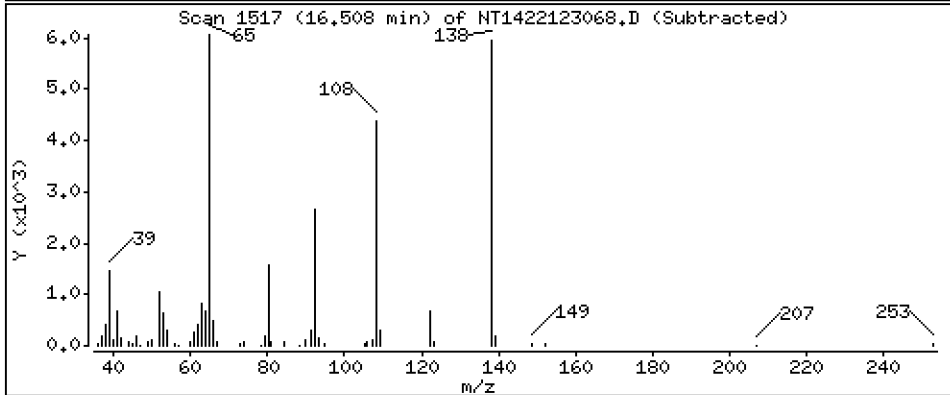
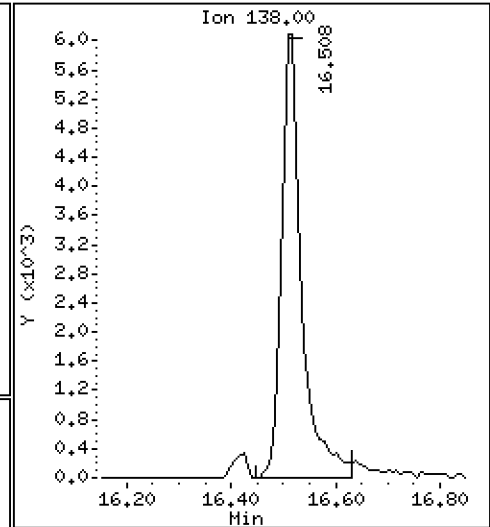
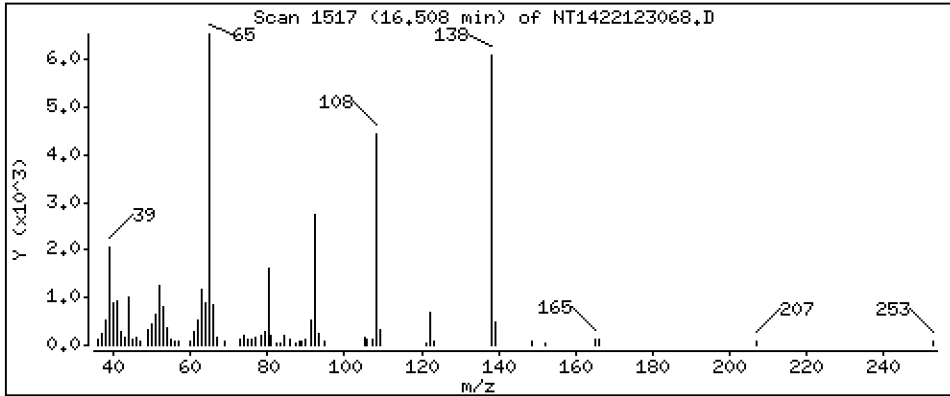
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

52 4-Nitroaniline

Concentration: 0,8313 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

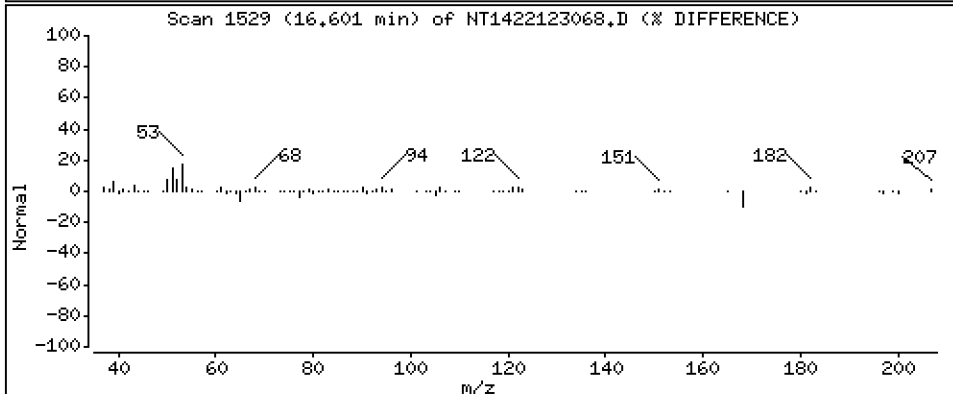
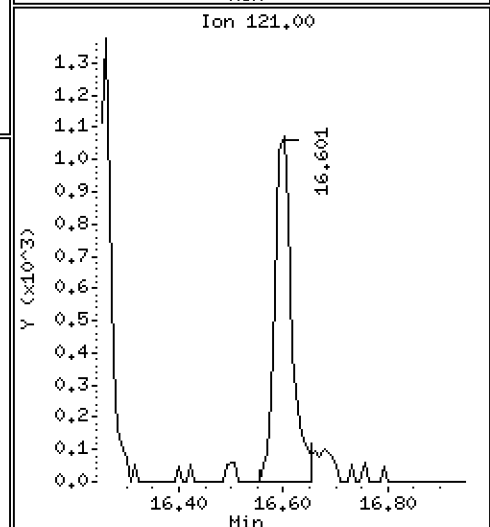
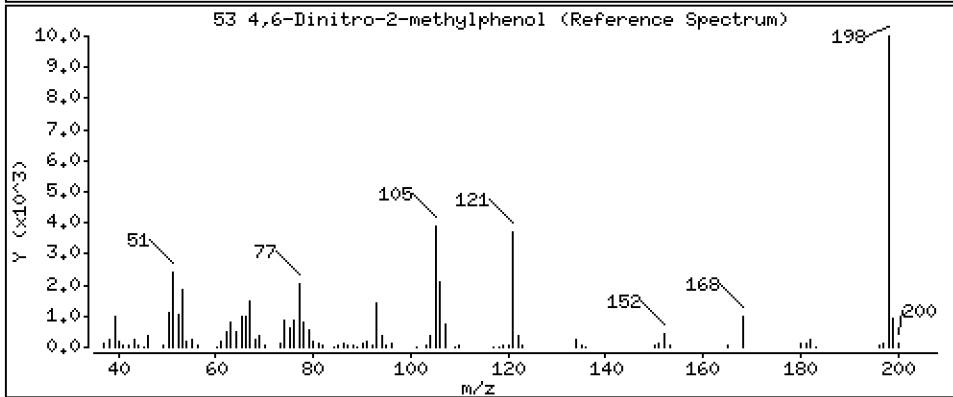
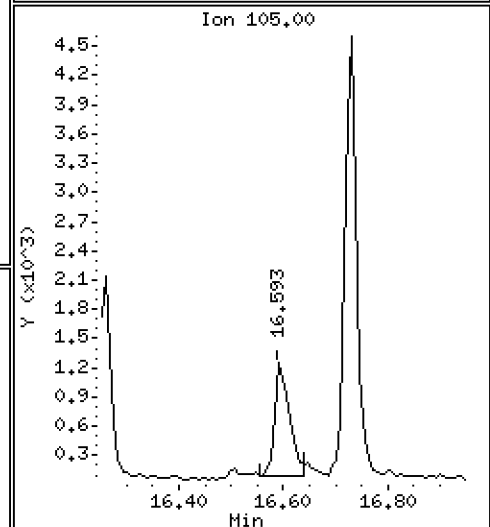
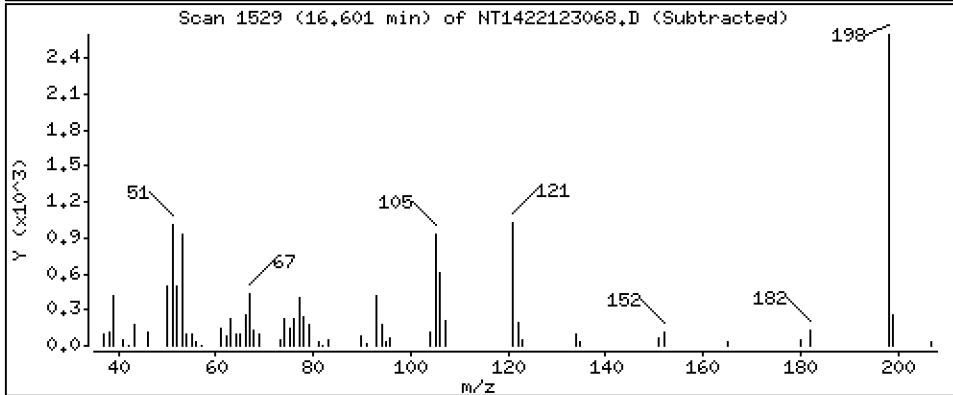
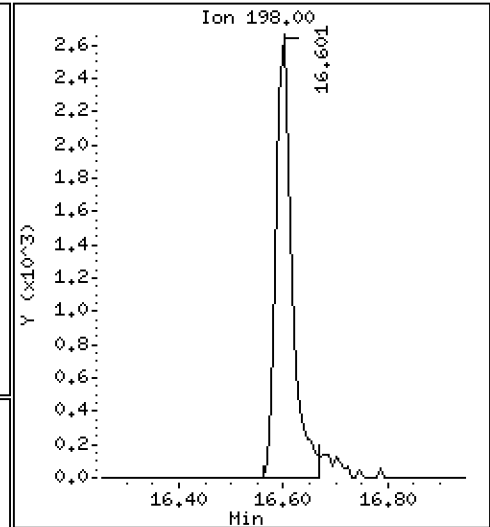
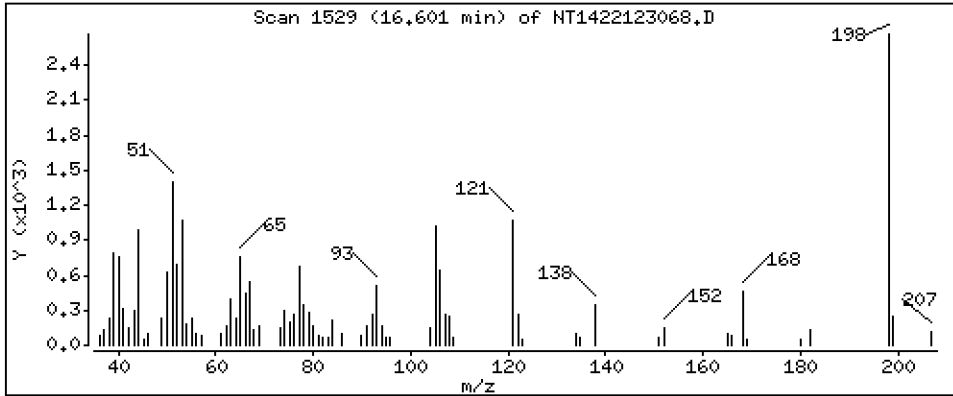
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

53 4,6-Dinitro-2-methylphenol

Concentration: 0,3826 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

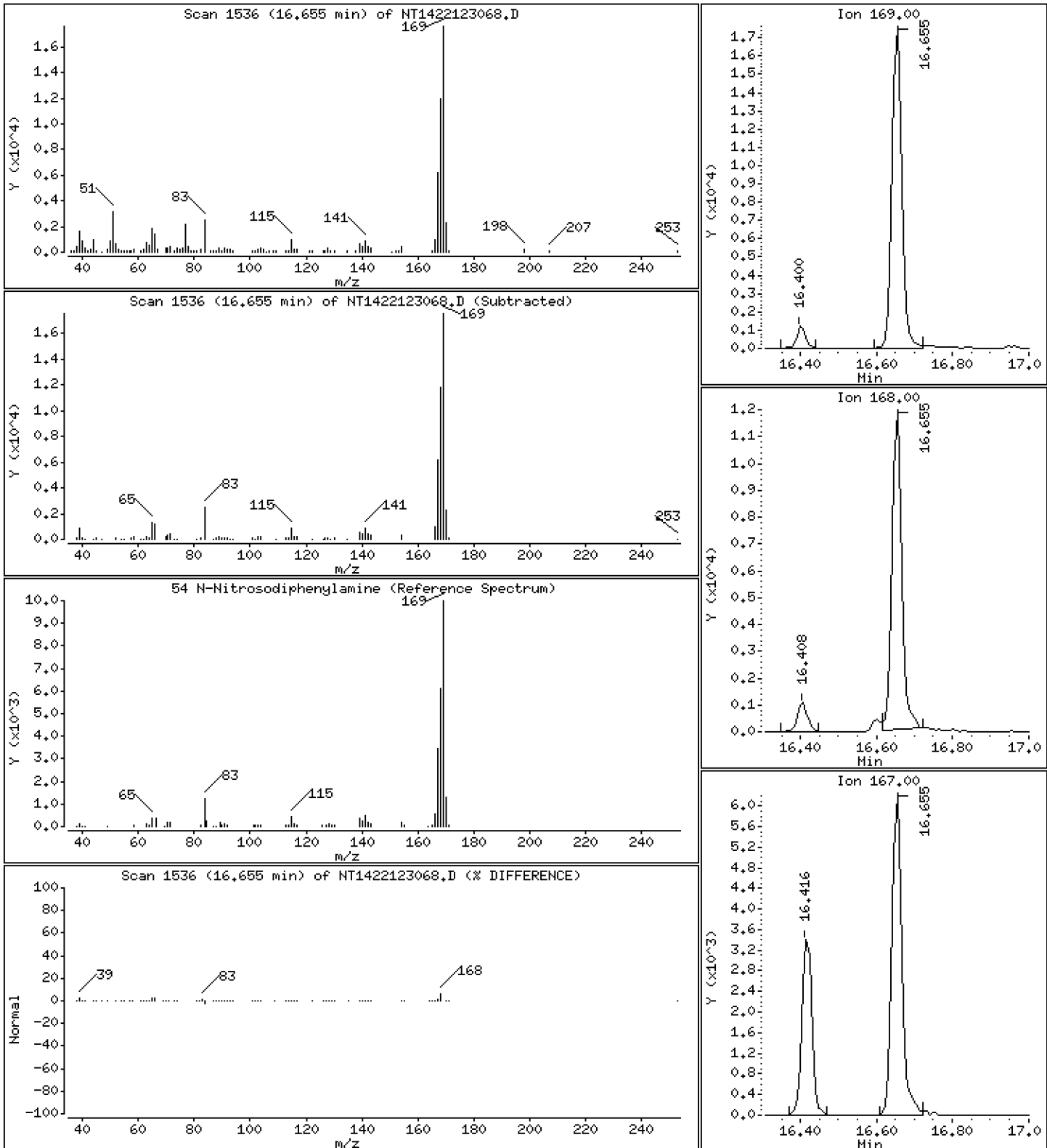
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

54 N-Nitrosodiphenylamine

Concentration: 0.5115 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

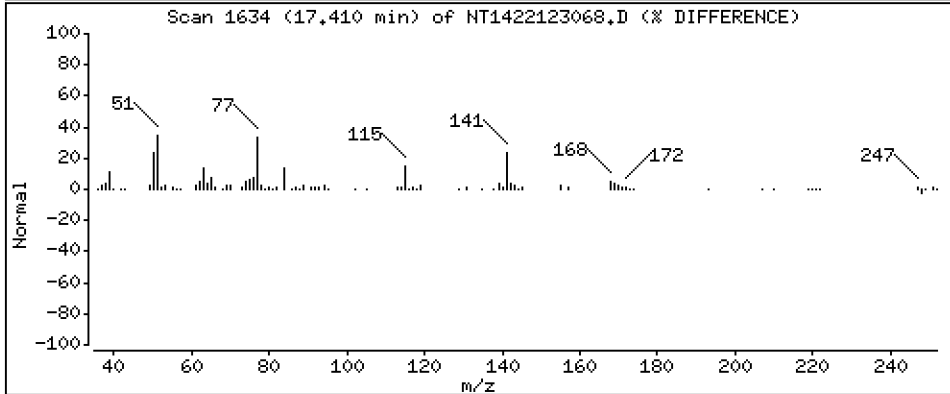
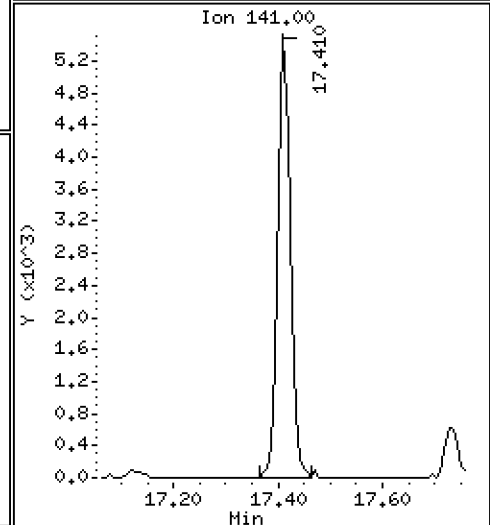
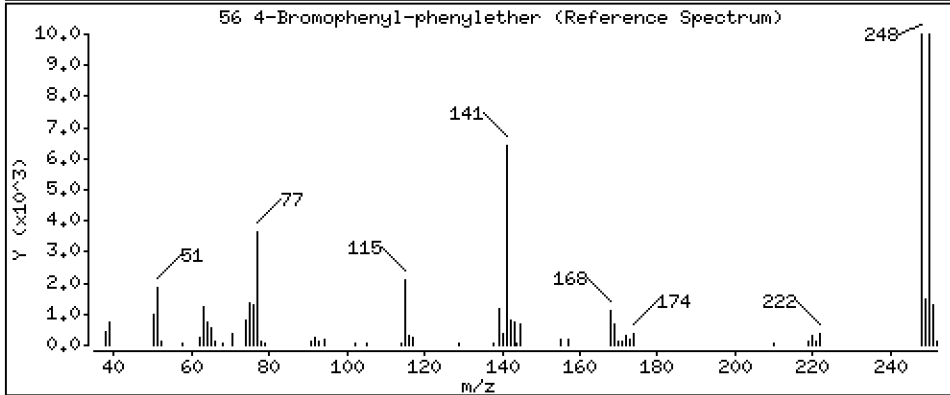
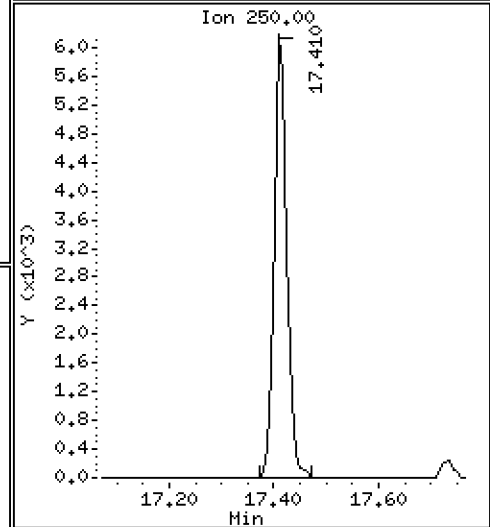
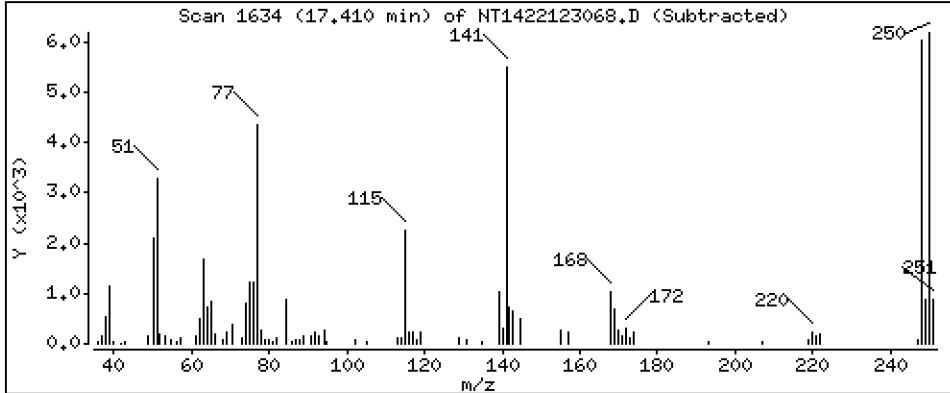
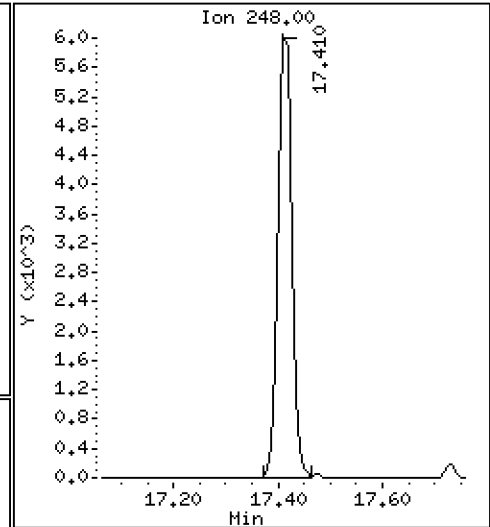
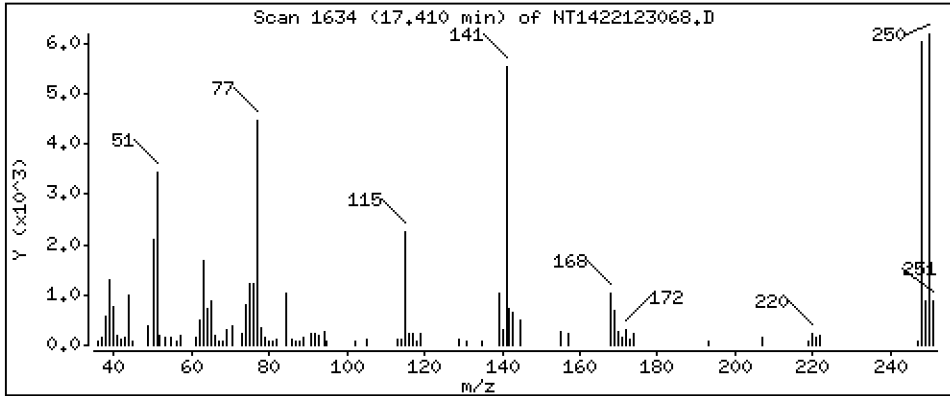
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

56 4-Bromophenyl-phenylether

Concentration: 0,4732 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

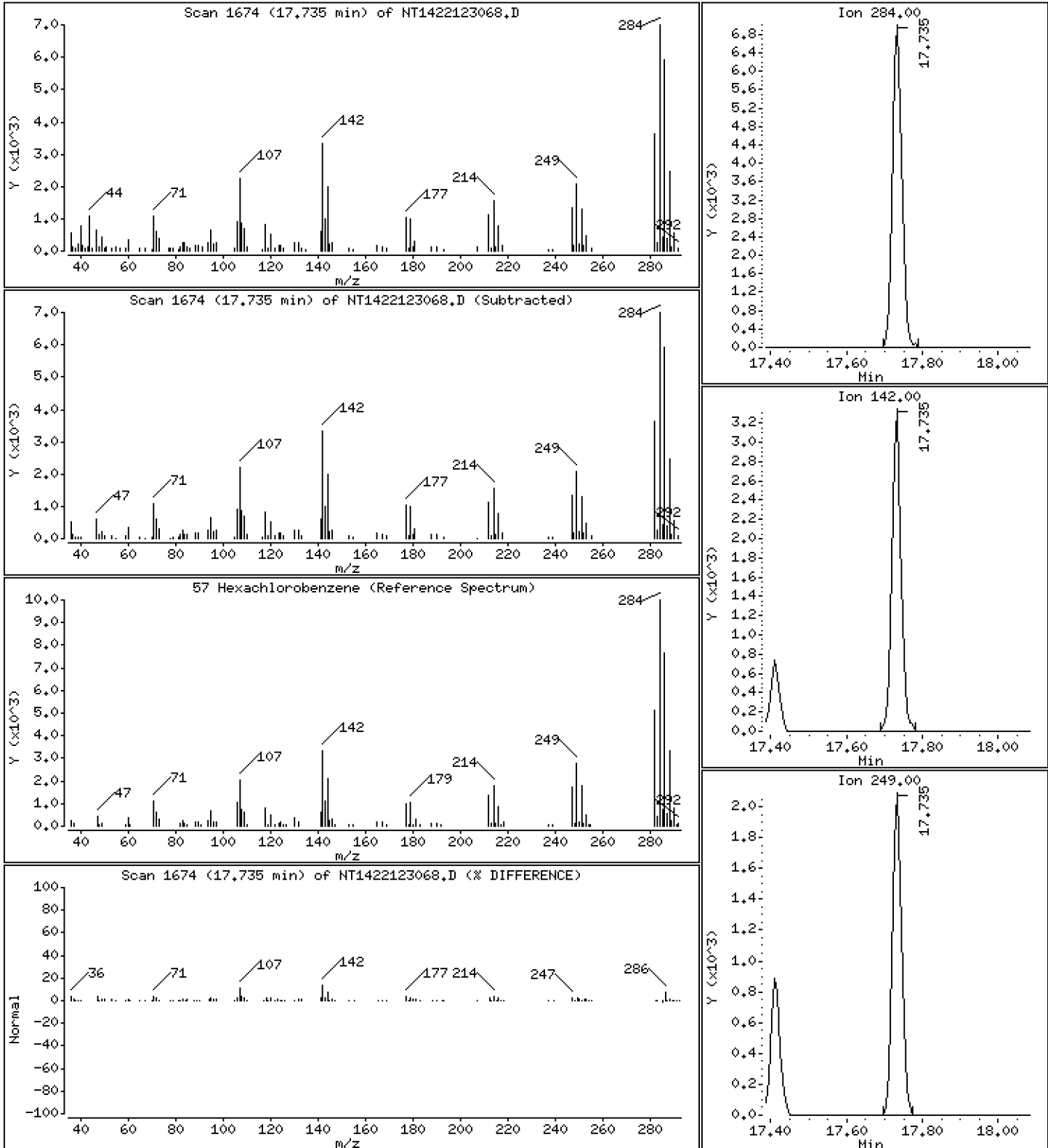
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

57 Hexachlorobenzene

Concentration: 0.4872 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

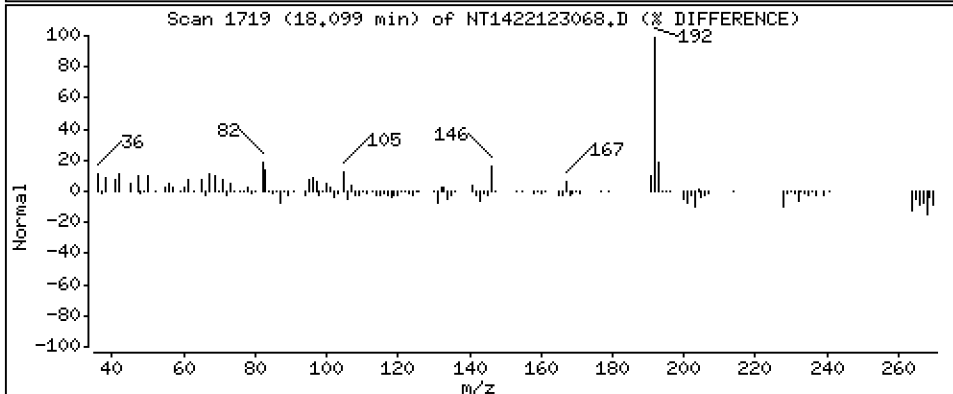
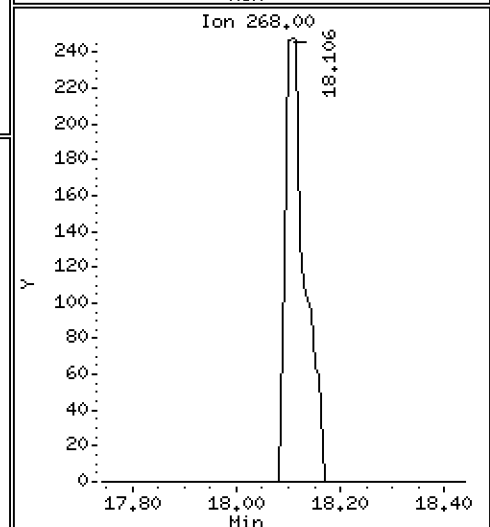
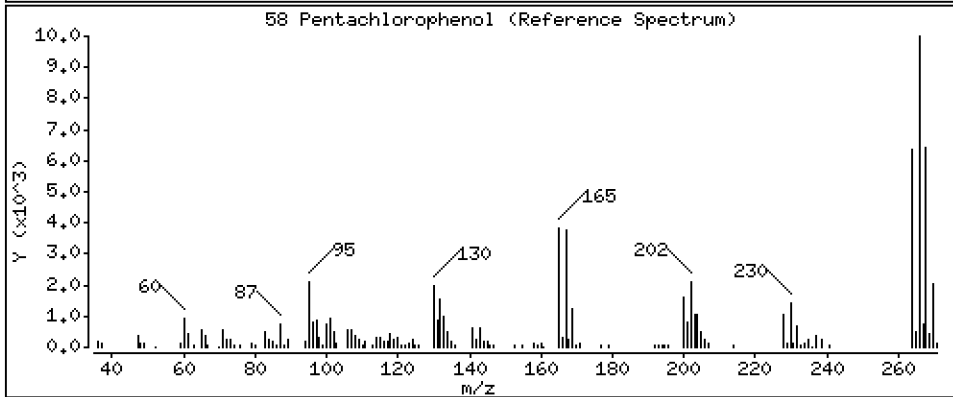
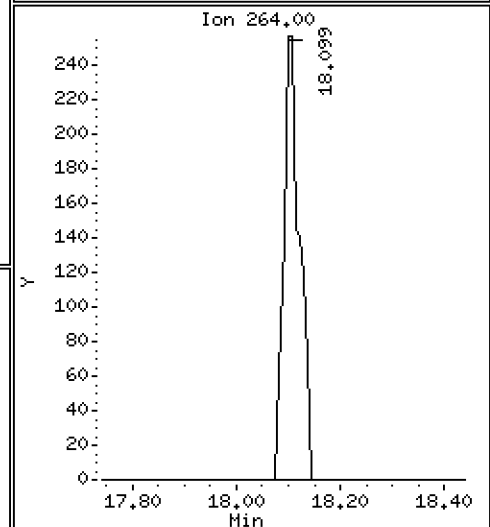
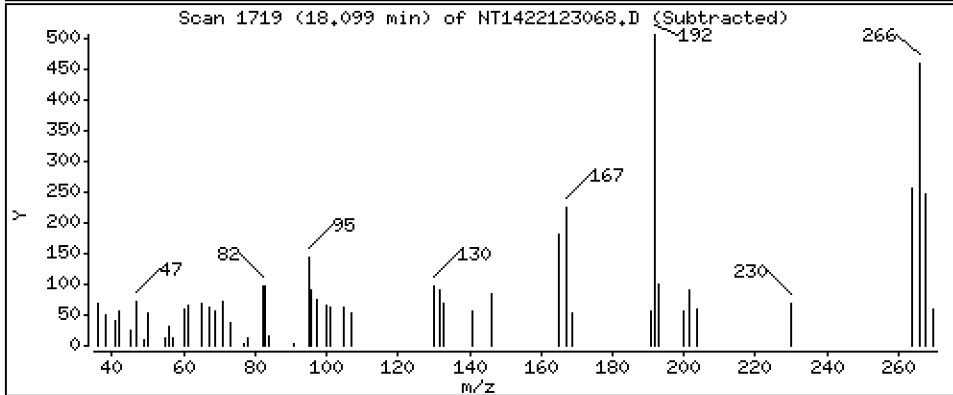
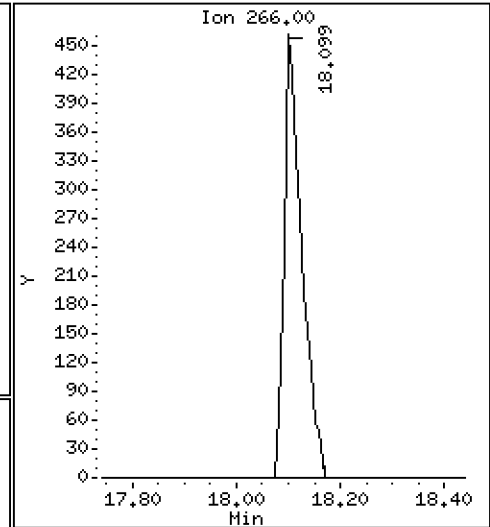
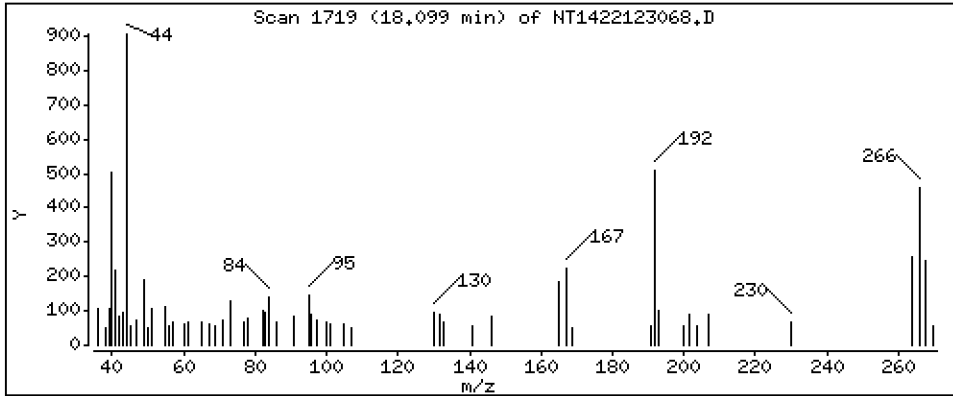
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

58 Pentachlorophenol

Concentration: 0,1037 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

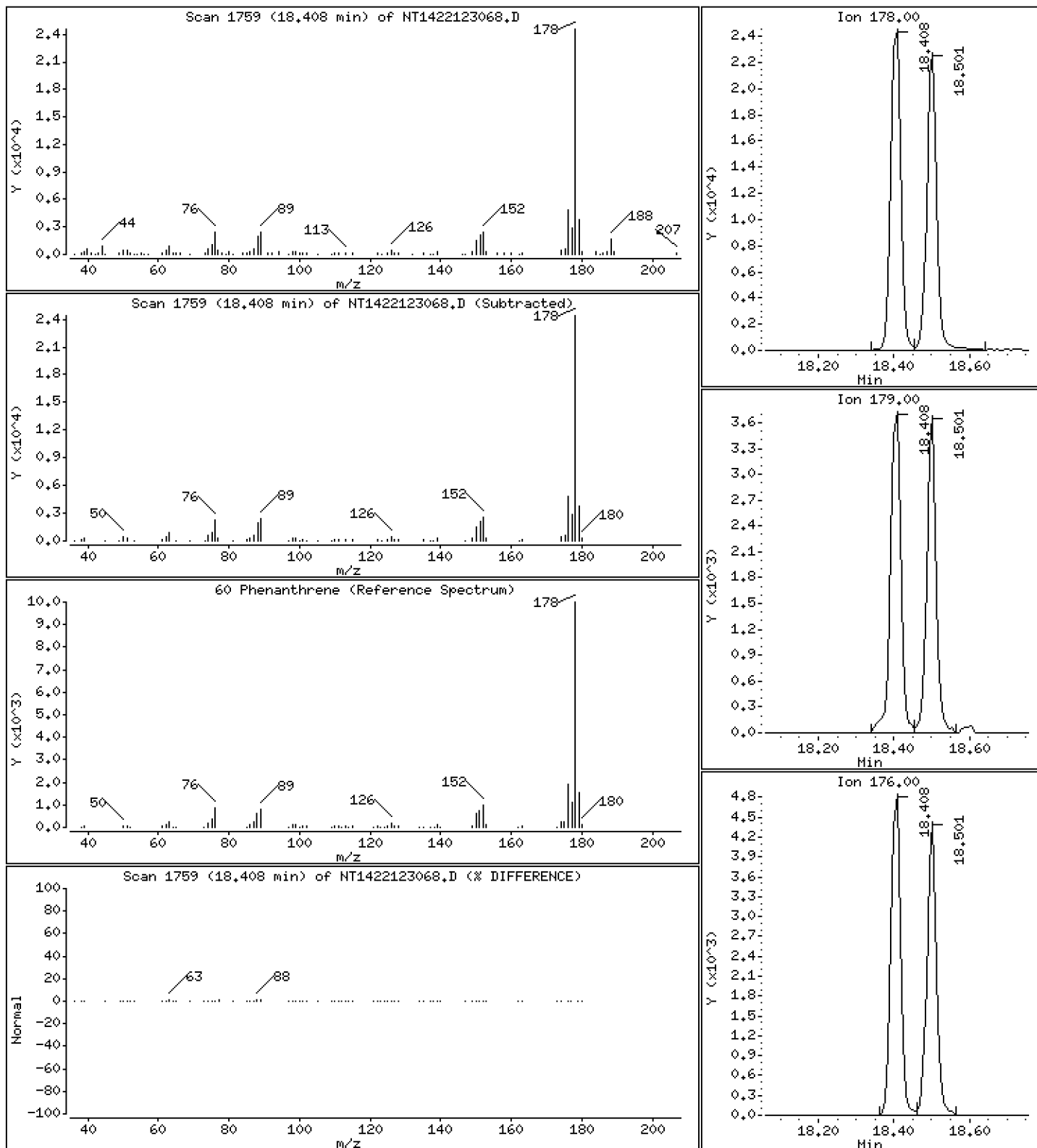
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

60 Phenanthrene

Concentration: 0,4832 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

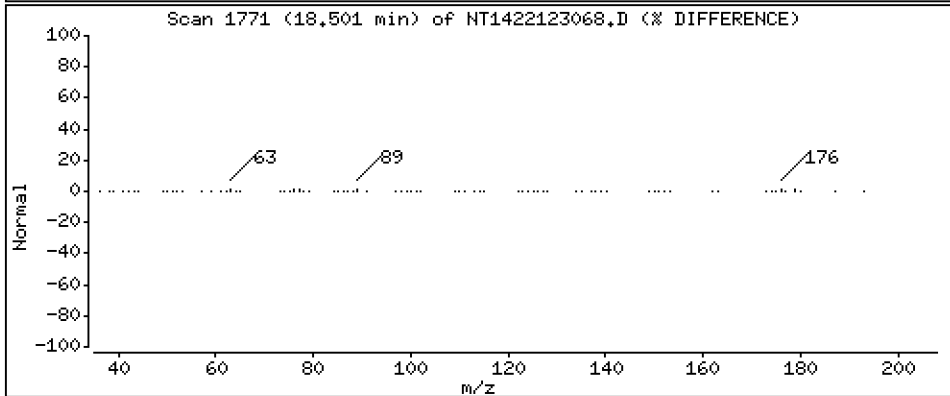
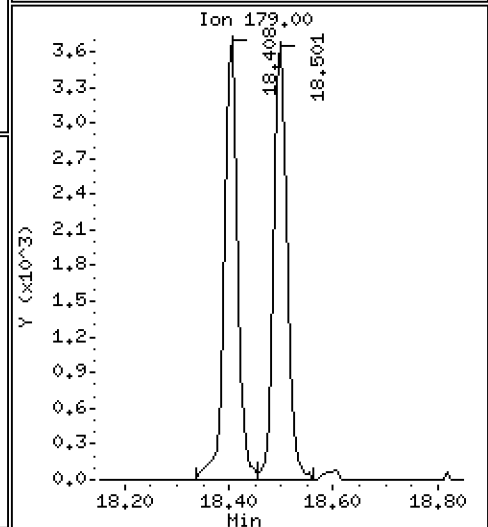
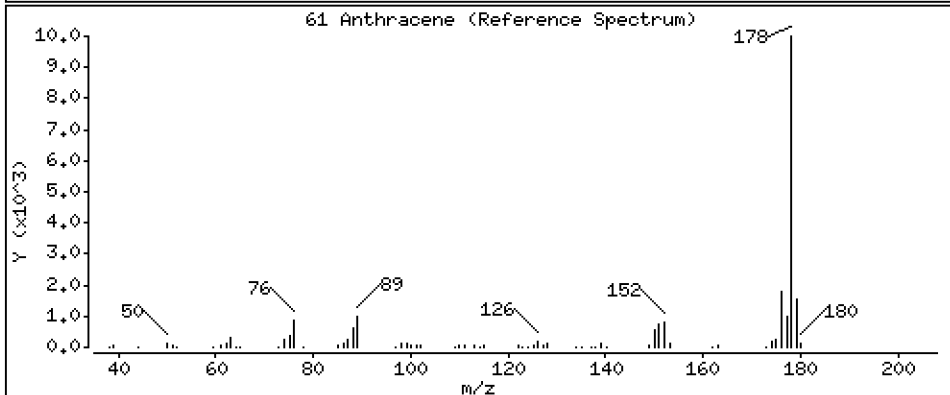
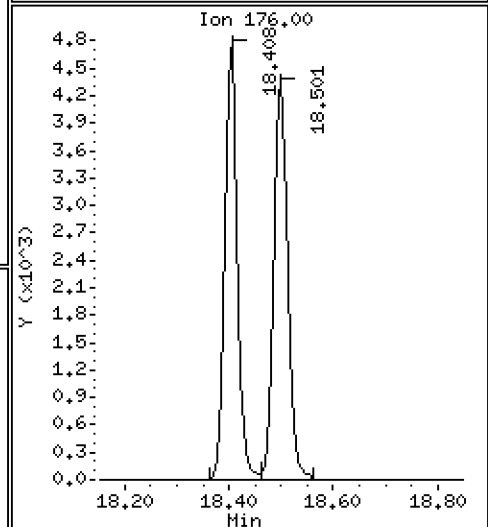
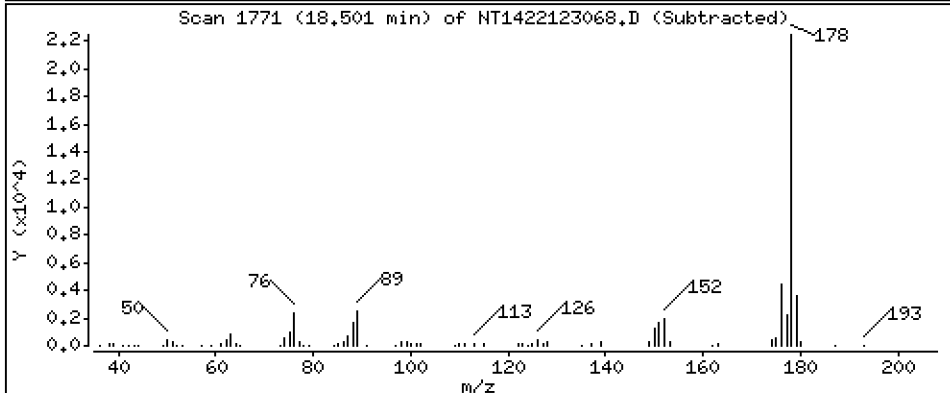
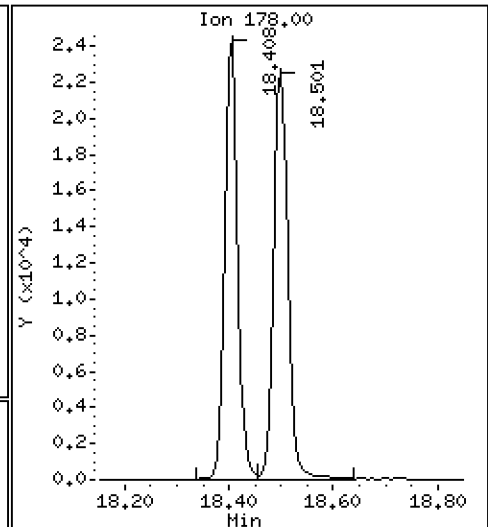
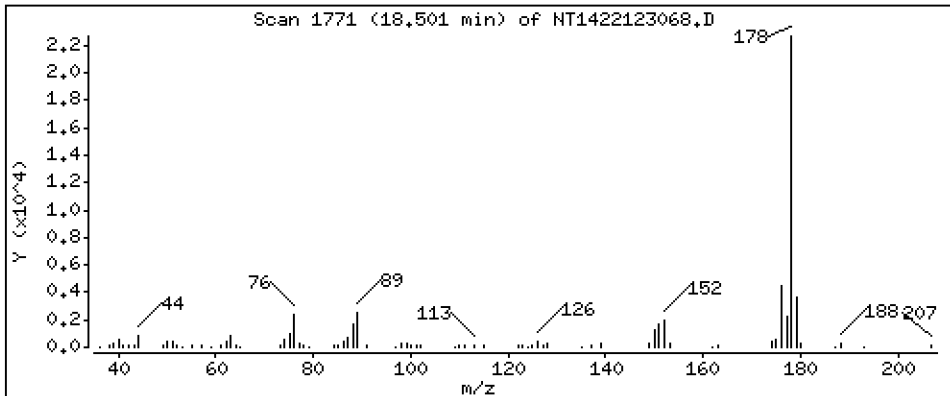
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

61 Anthracene

Concentration: 0,4848 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

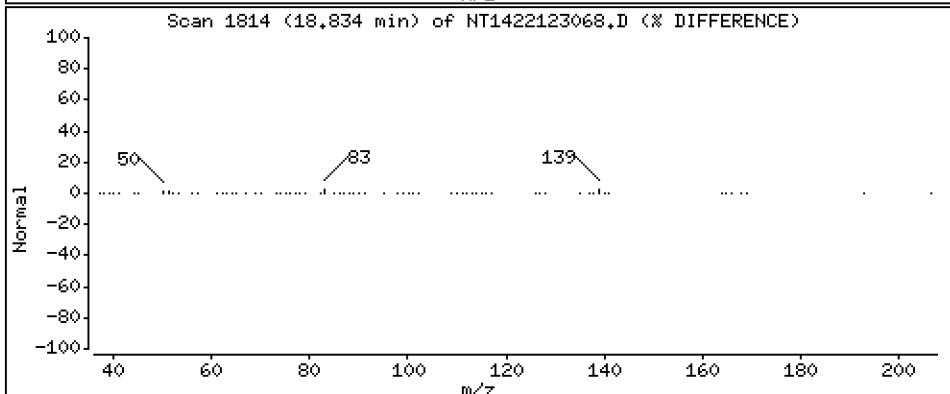
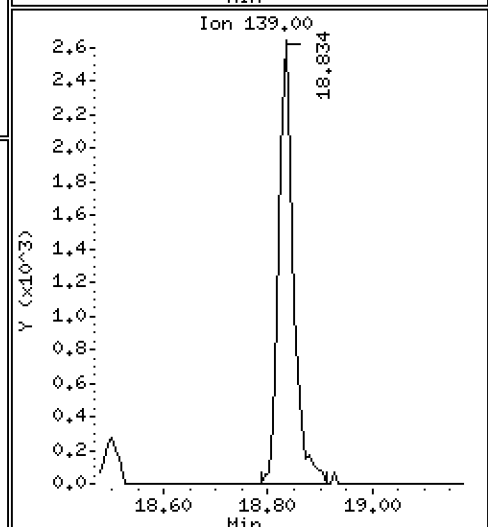
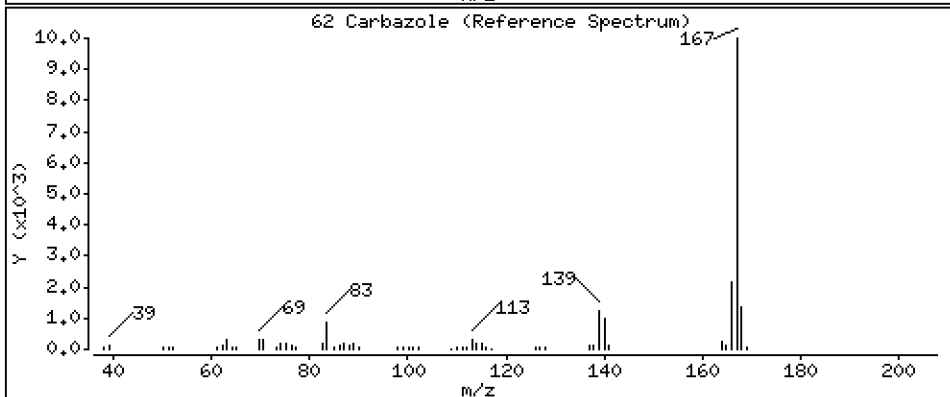
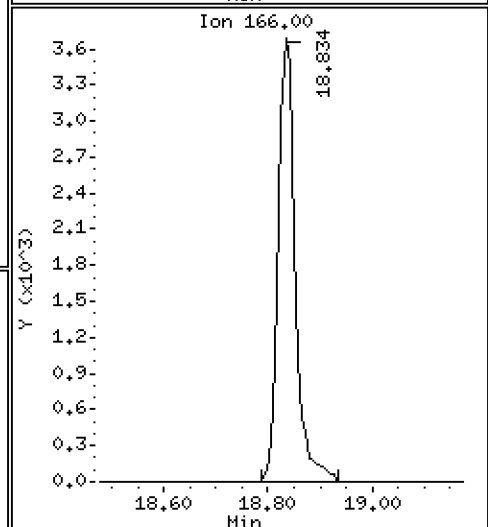
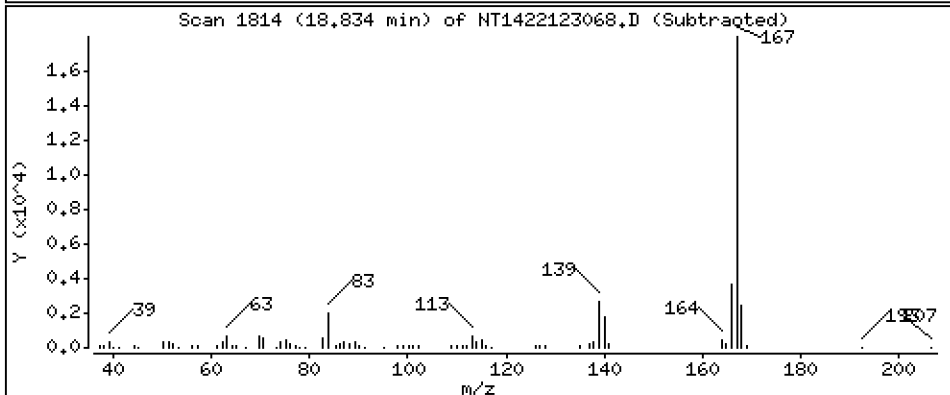
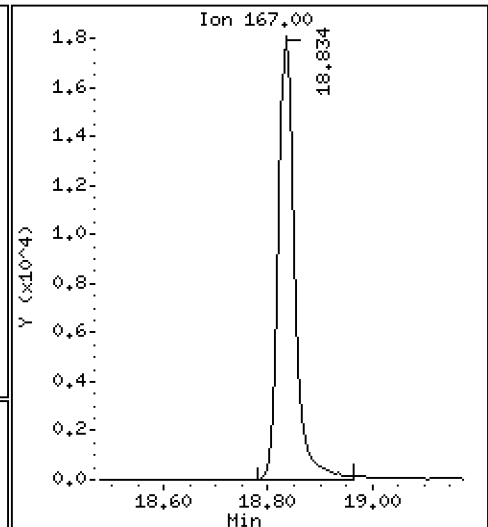
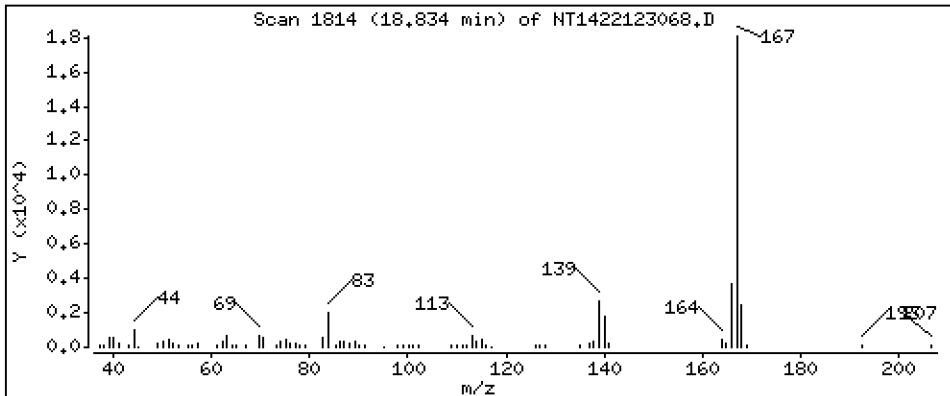
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

62 Carbazole

Concentration: 0,4681 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

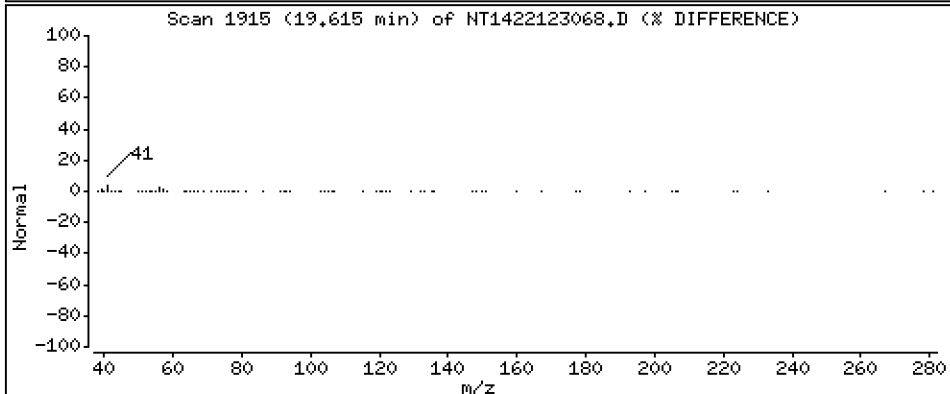
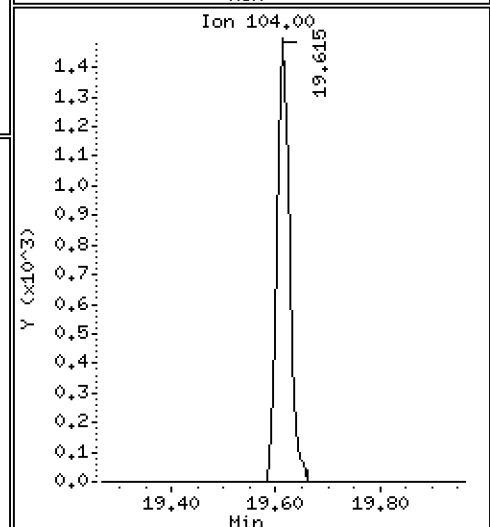
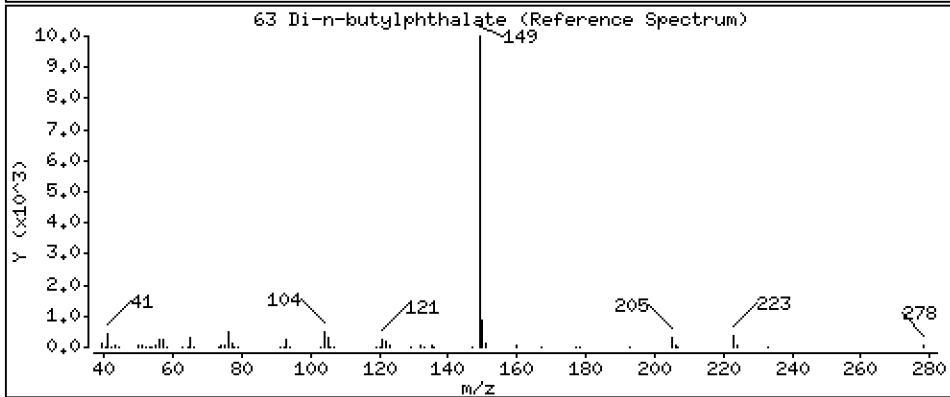
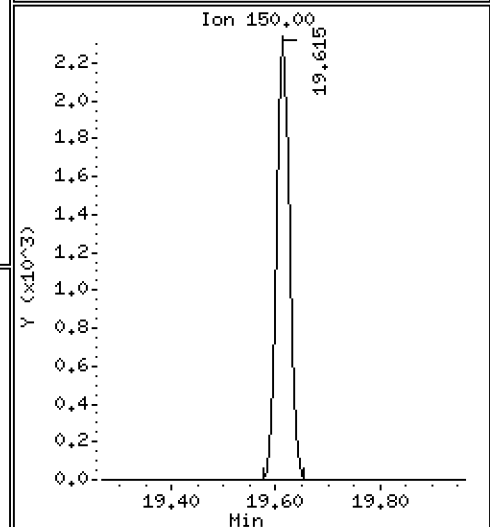
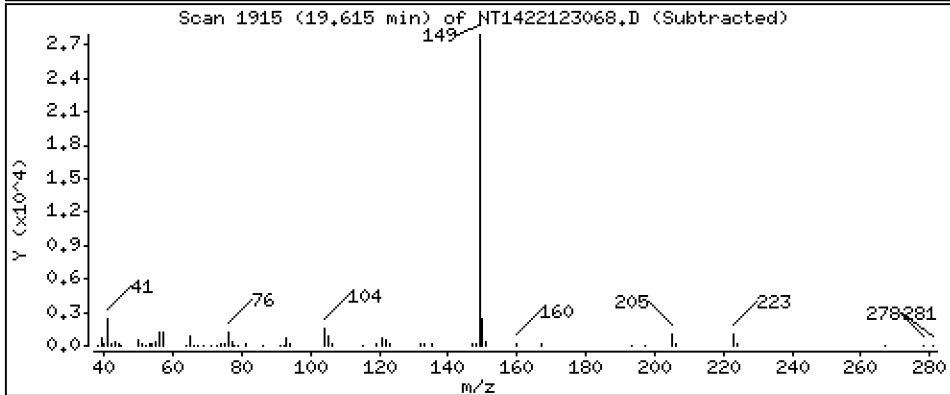
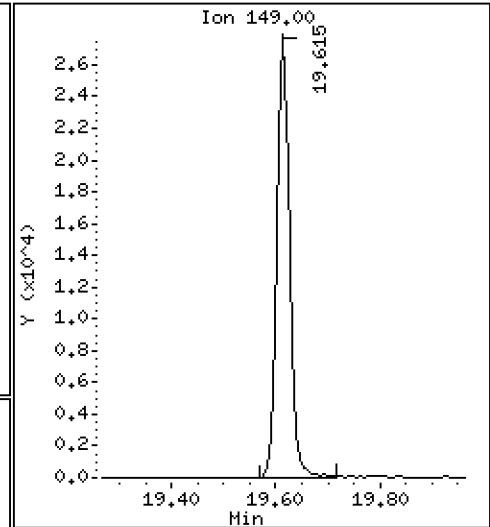
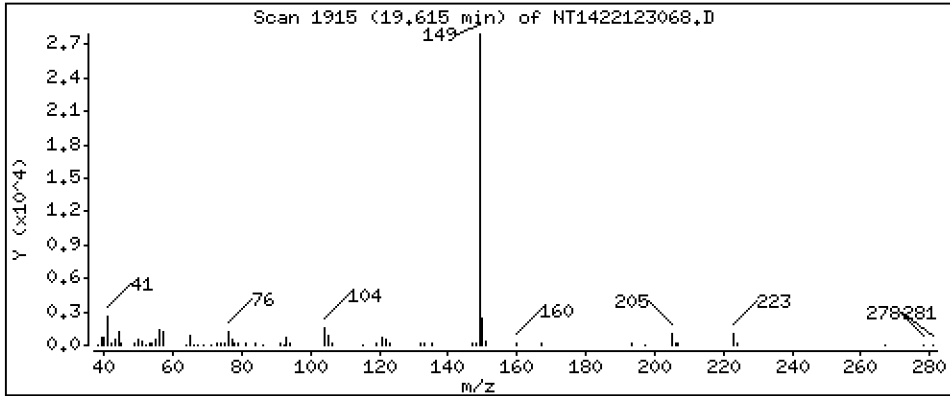
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

63 Di-n-butylphthalate

Concentration: 0,4789 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

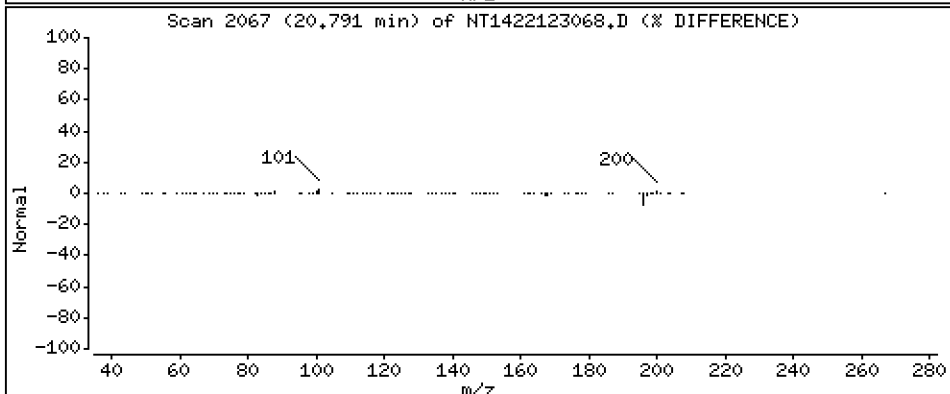
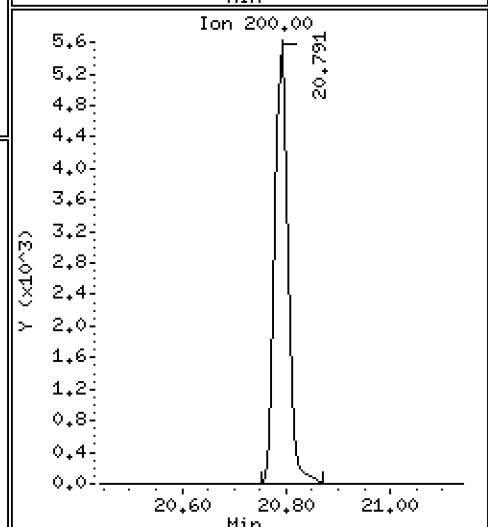
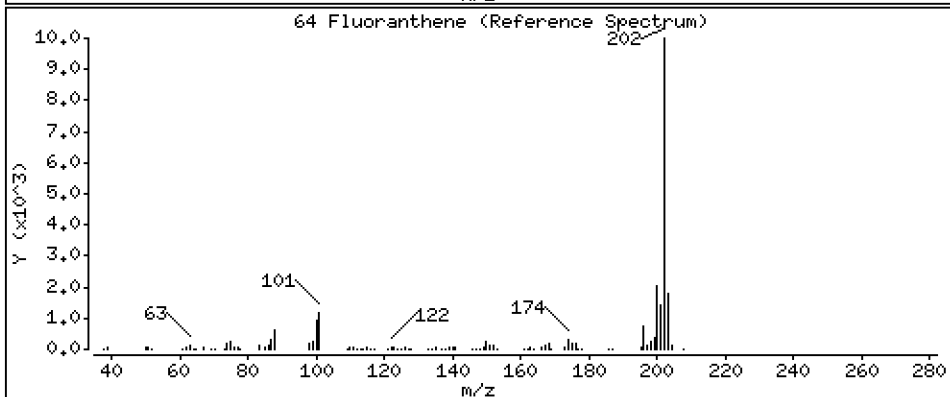
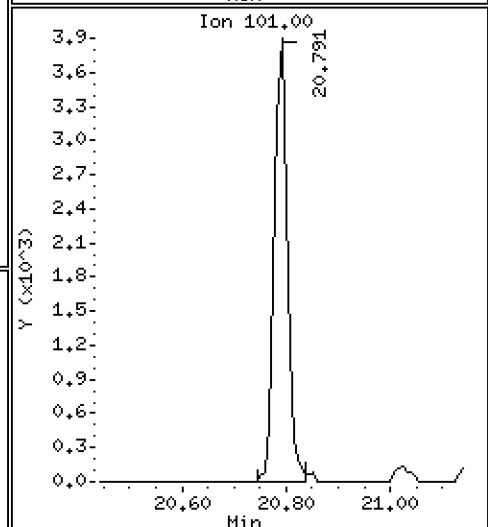
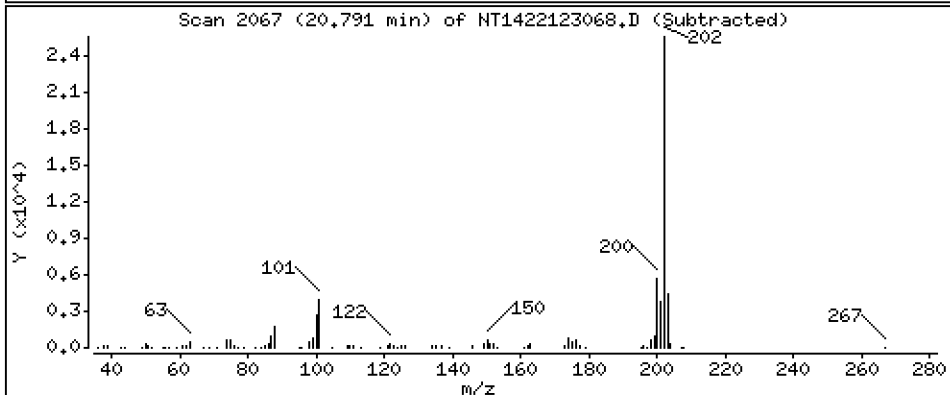
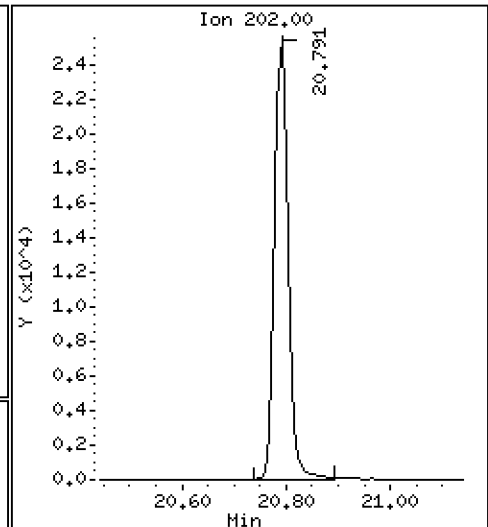
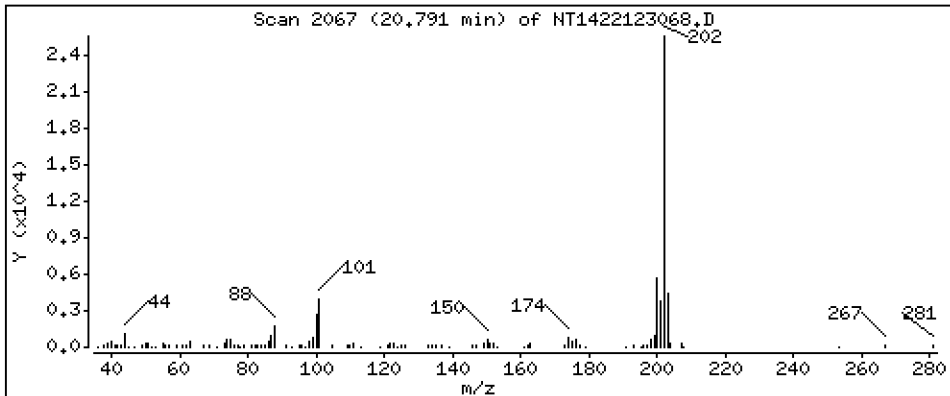
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

64 Fluoranthene

Concentration: 0,4720 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

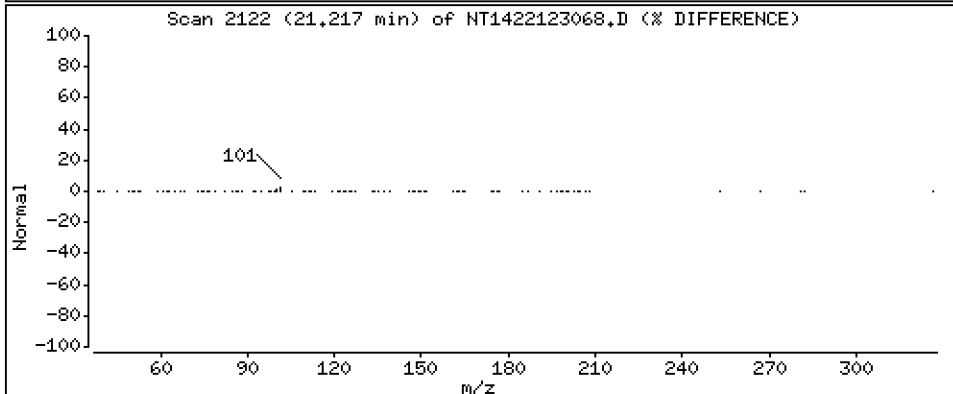
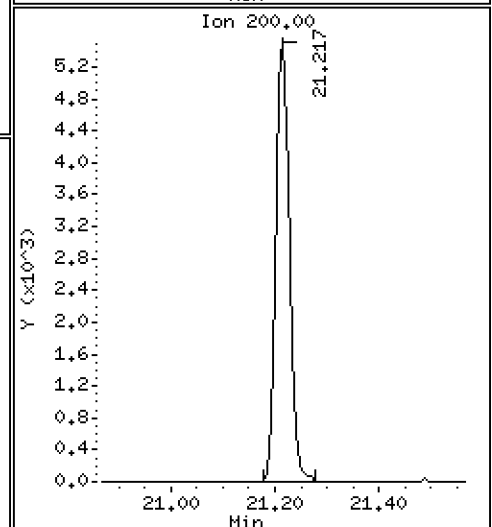
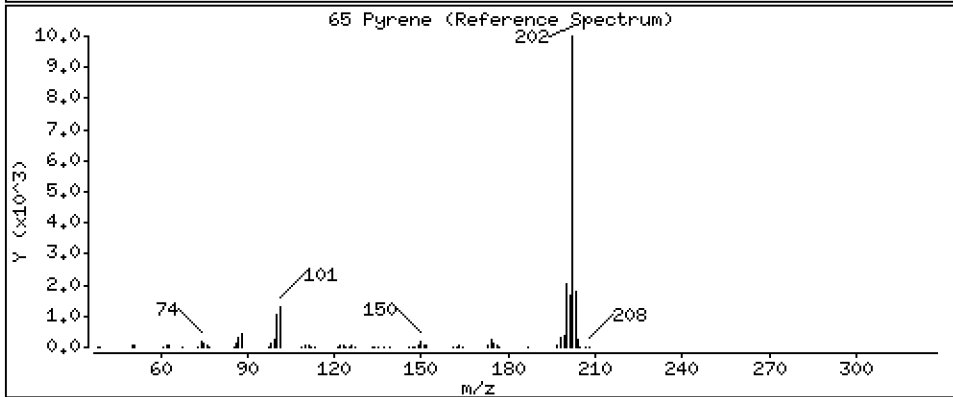
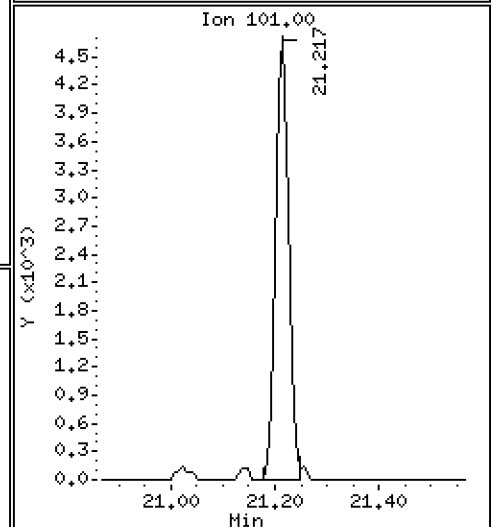
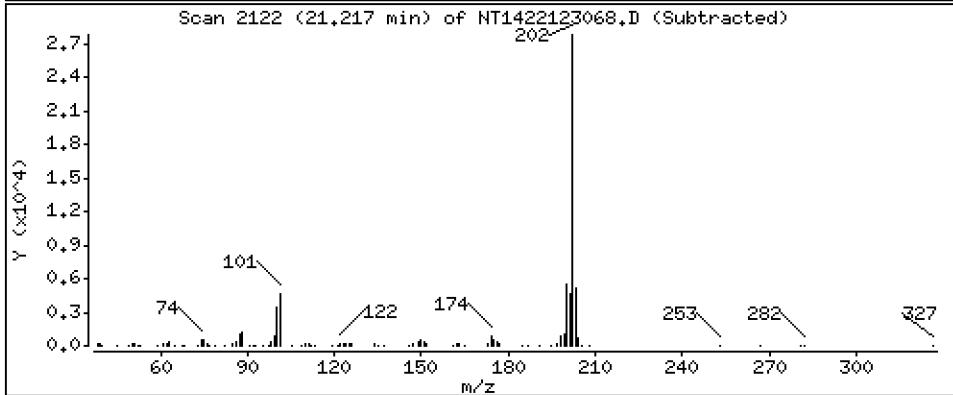
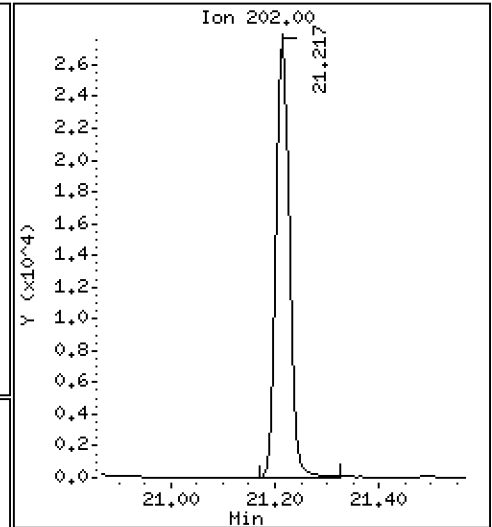
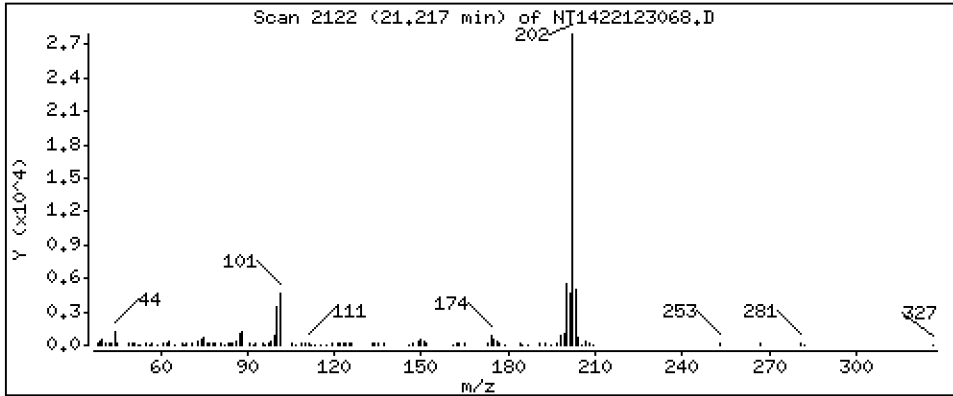
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

65 Pyrene

Concentration: 0,4811 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

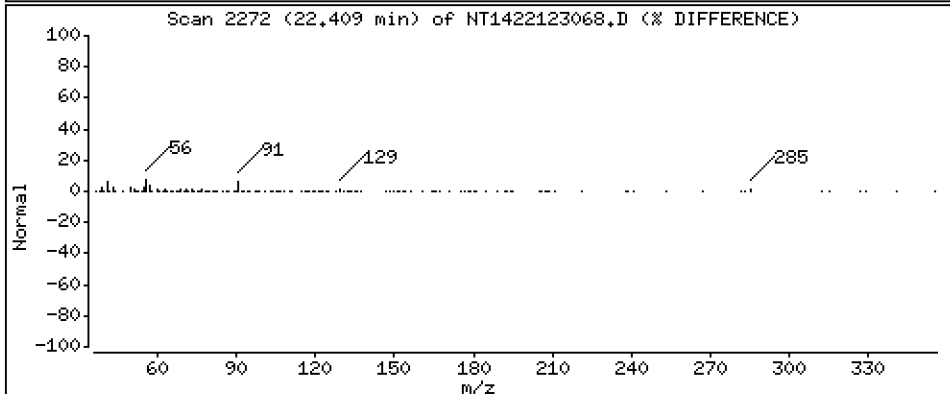
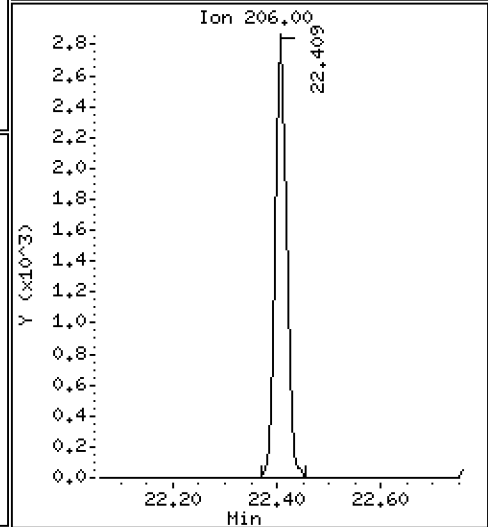
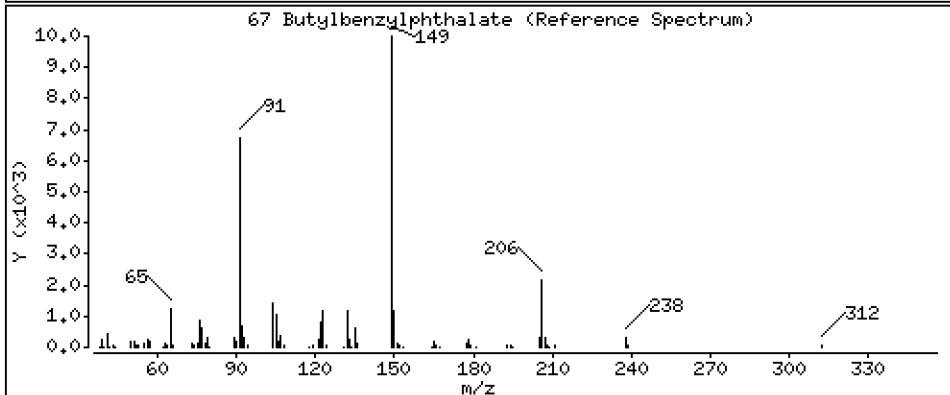
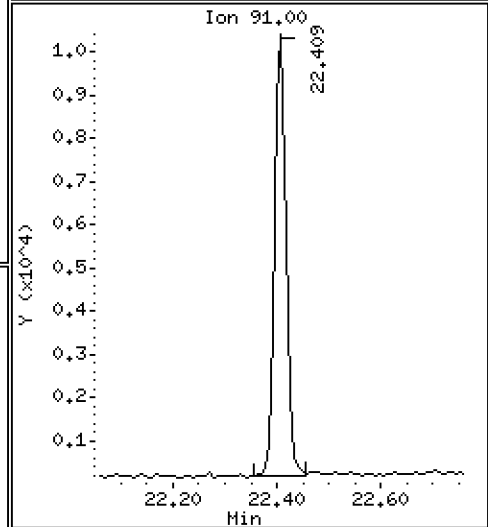
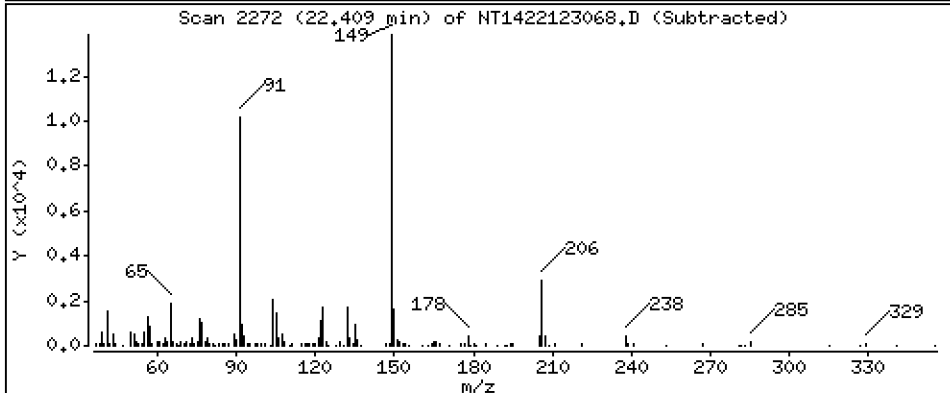
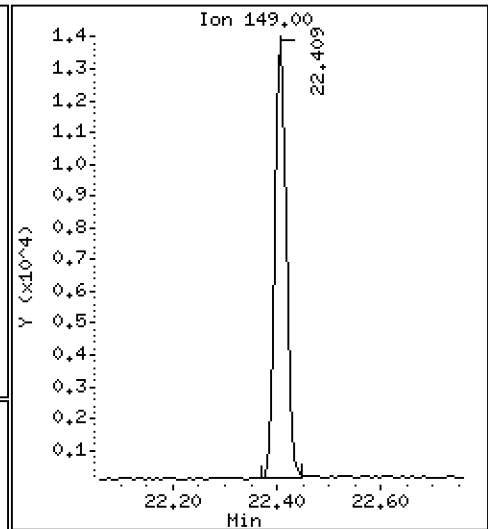
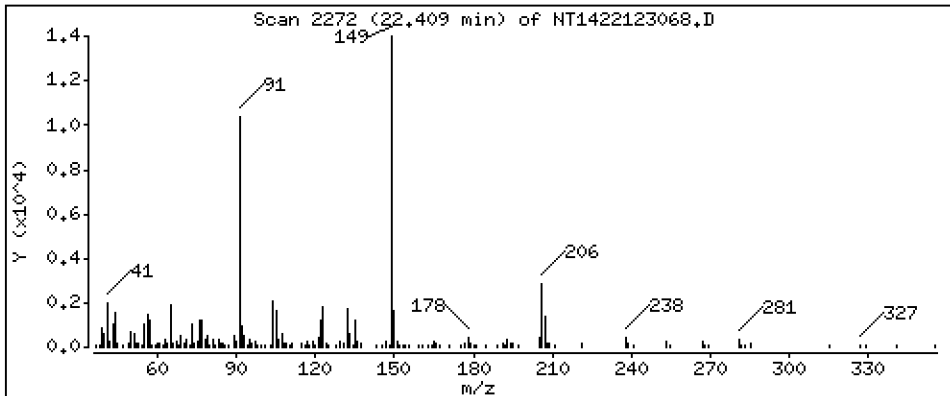
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

67 Butylbenzylphthalate

Concentration: 0,5261 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

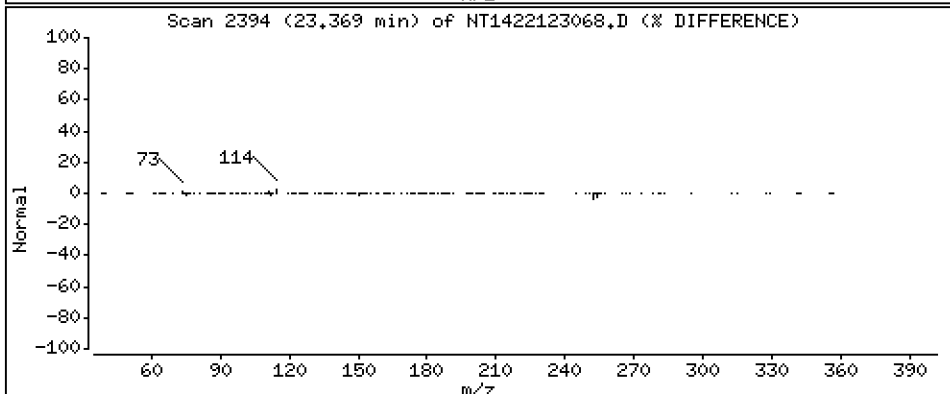
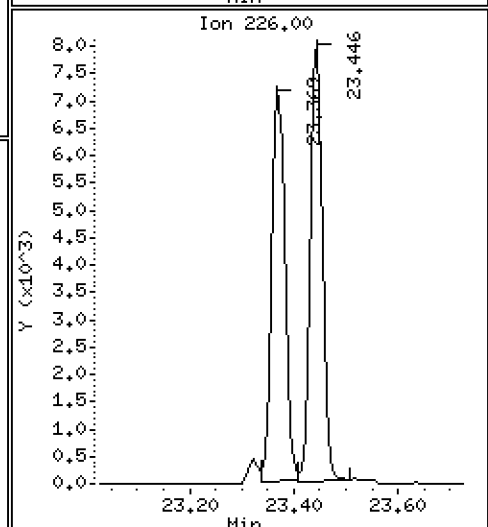
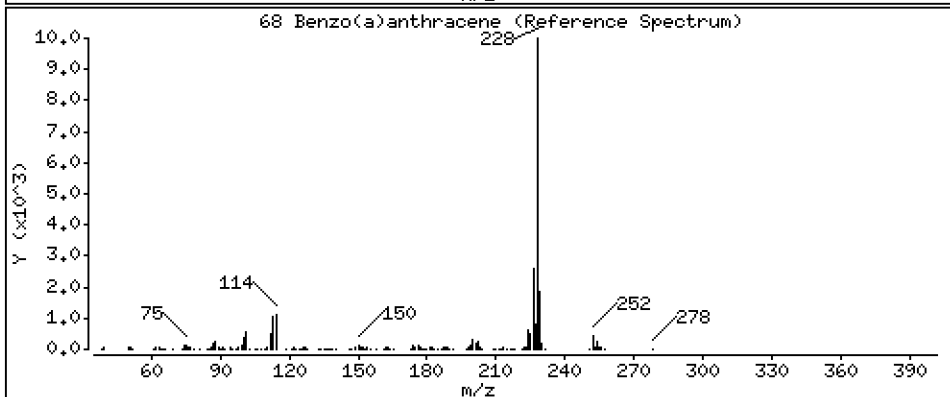
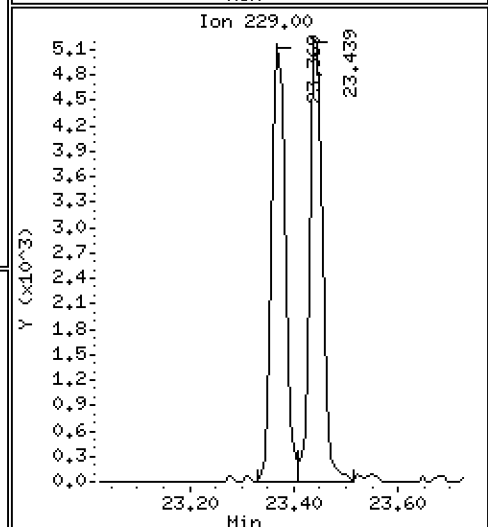
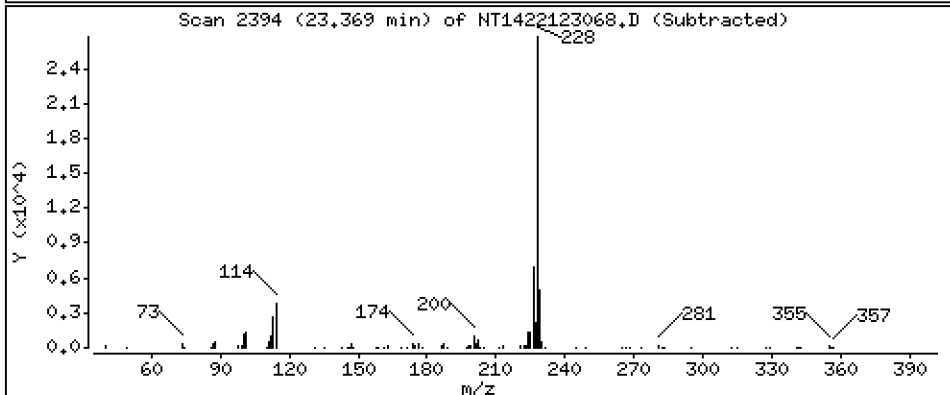
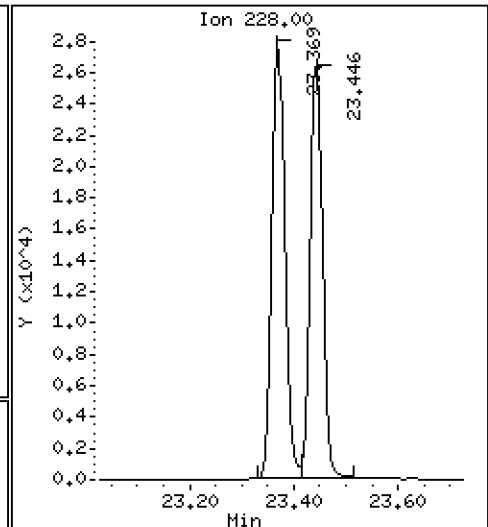
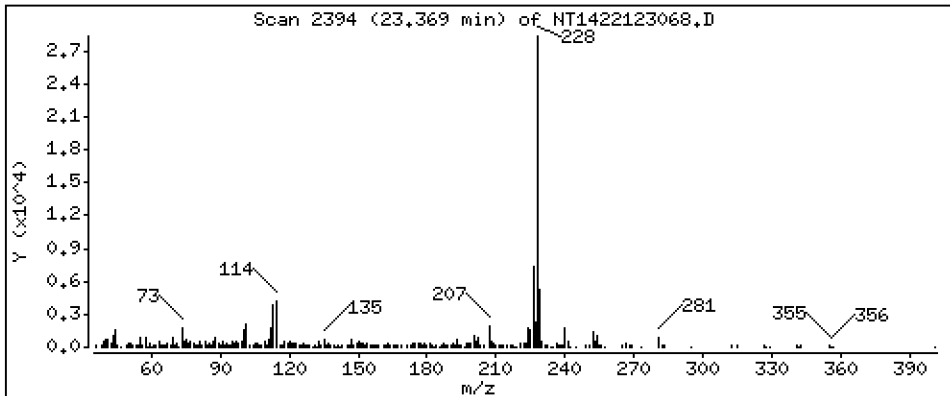
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

68 Benzo(a)anthracene

Concentration: 0,5206 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

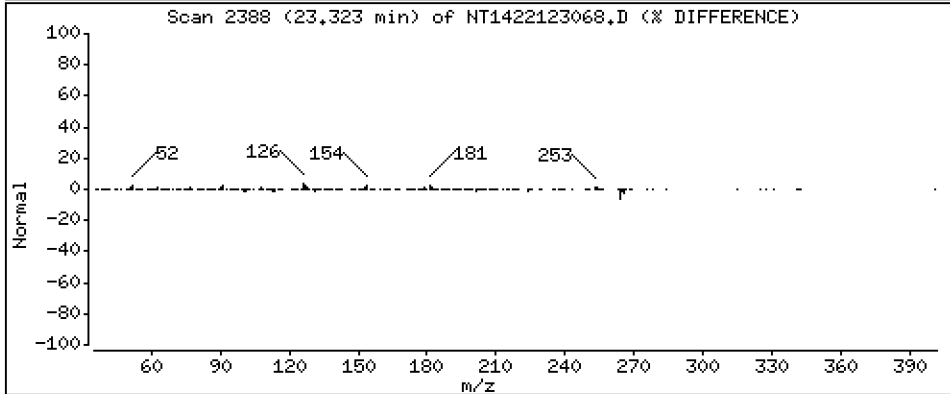
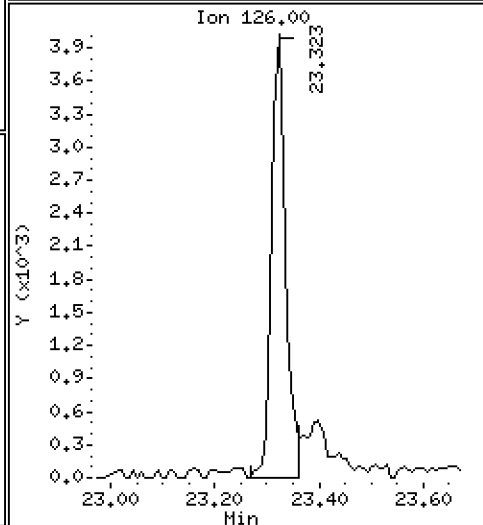
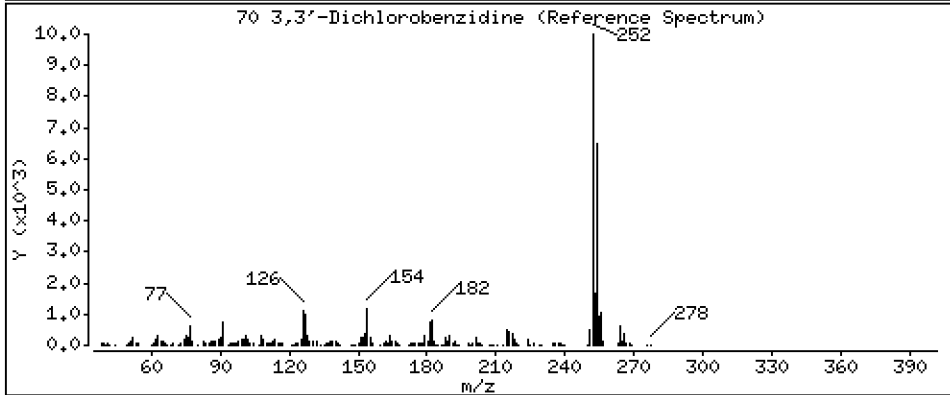
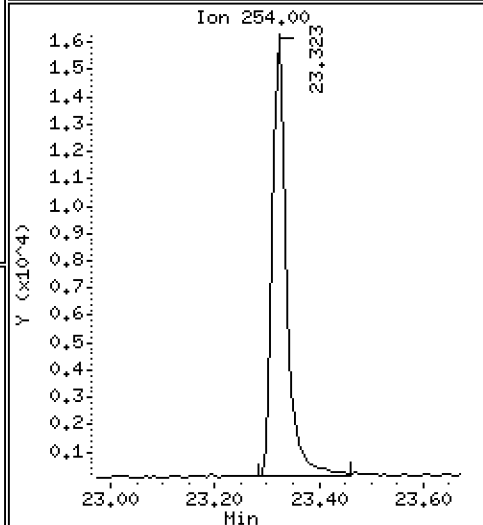
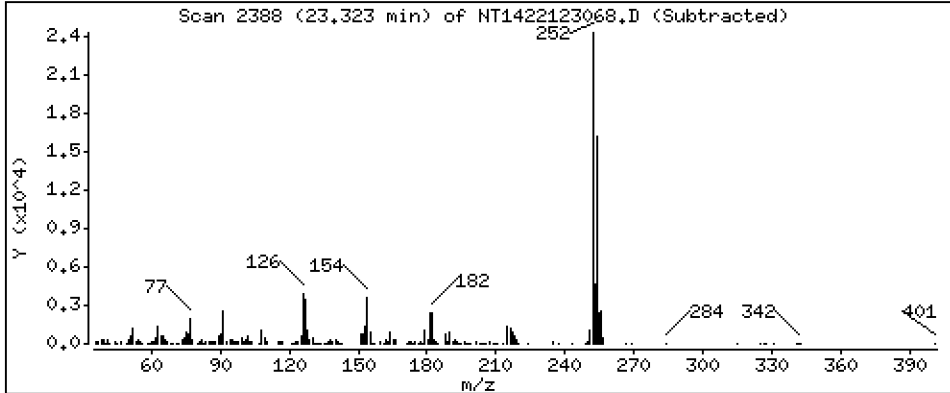
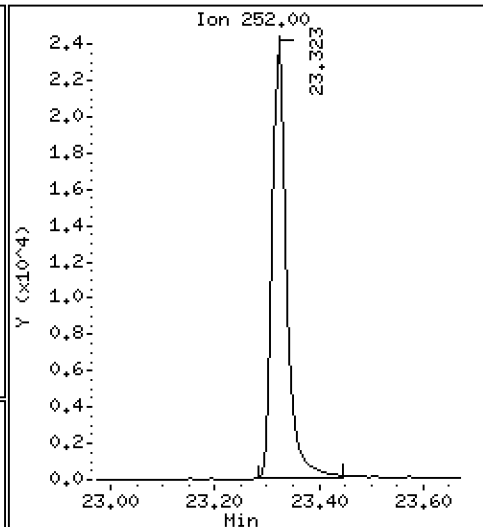
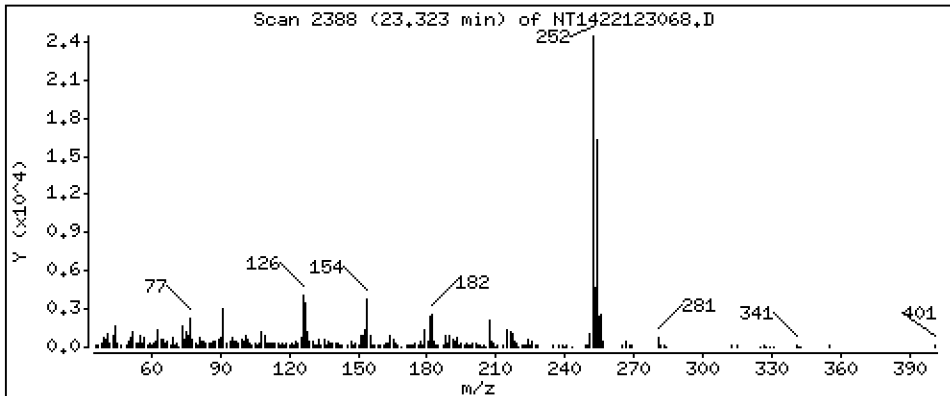
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

70 3,3'-Dichlorobenzidine

Concentration: 1,641 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

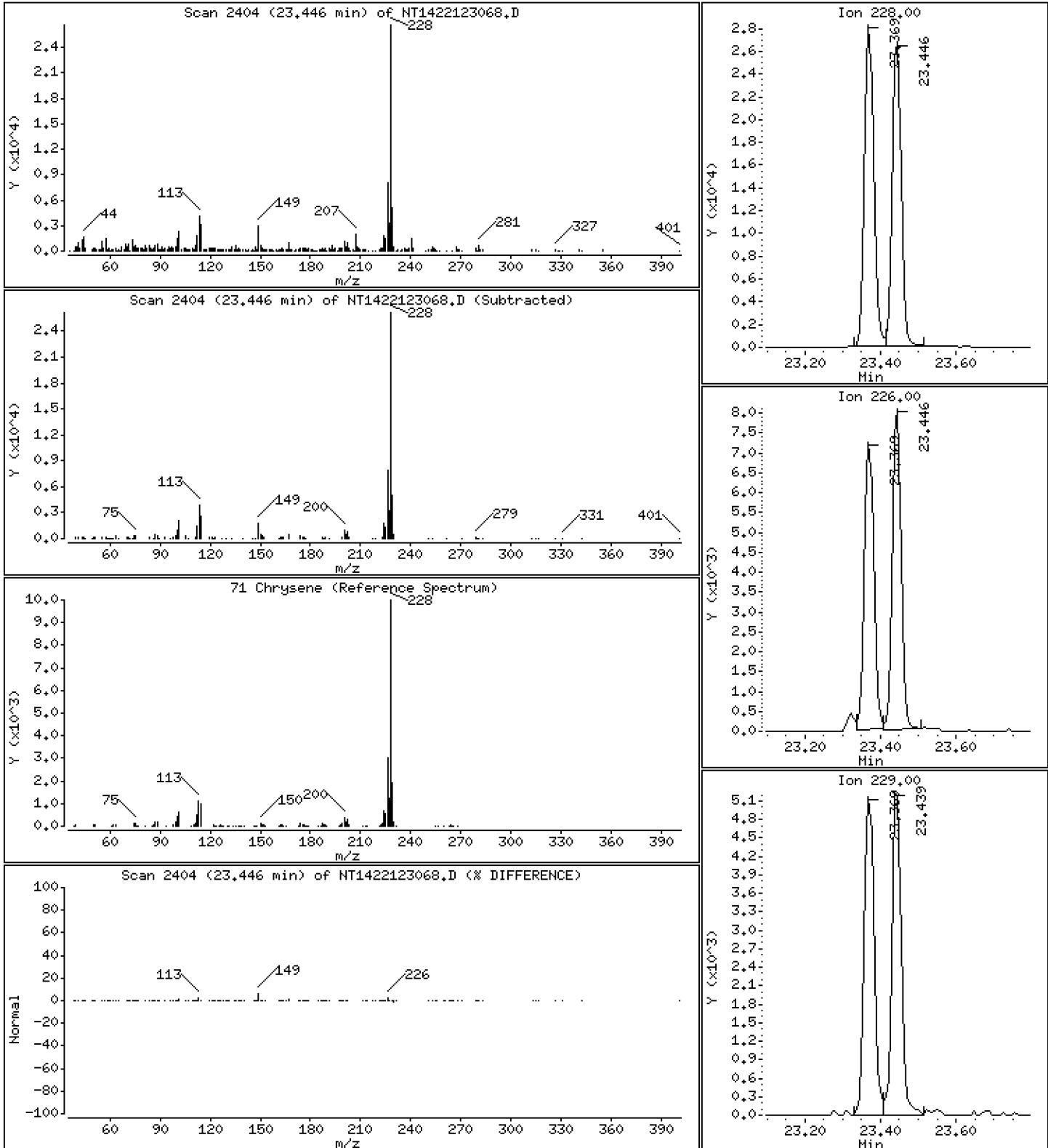
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

71 Chrysene

Concentration: 0,5001 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

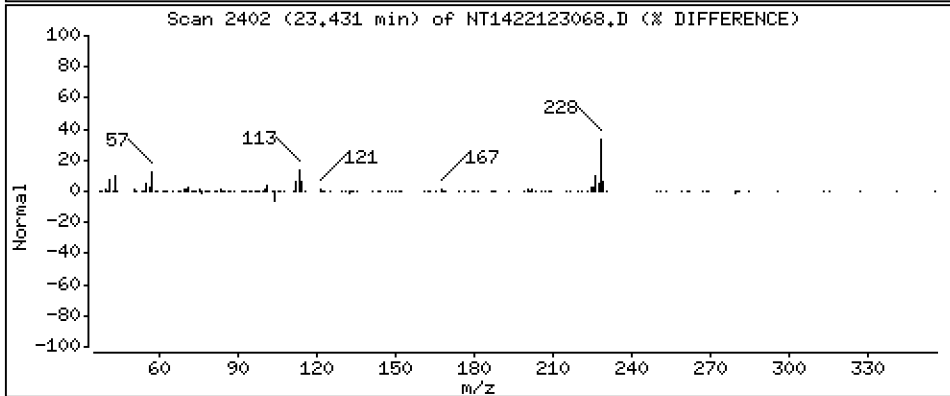
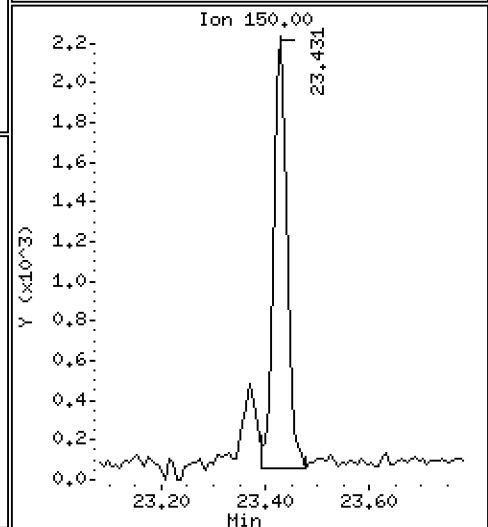
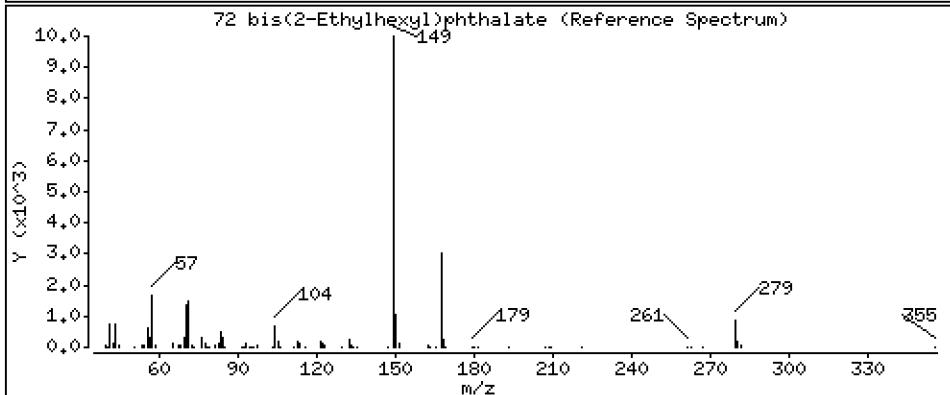
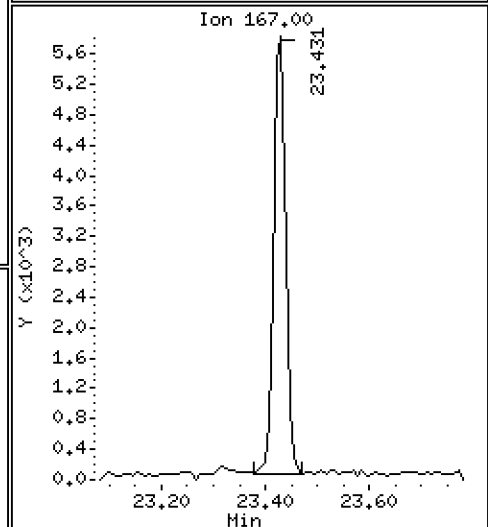
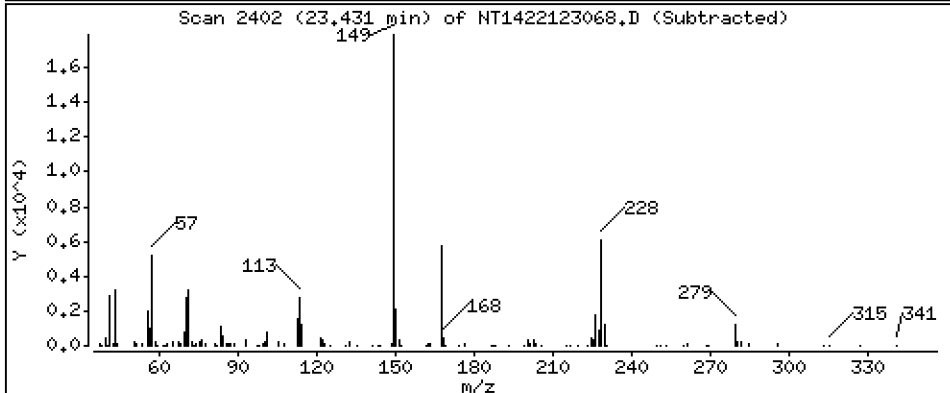
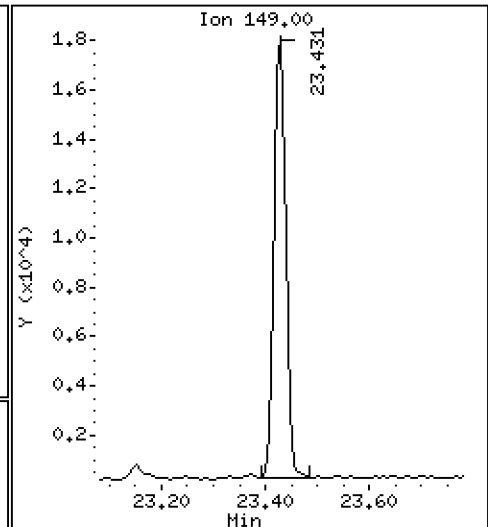
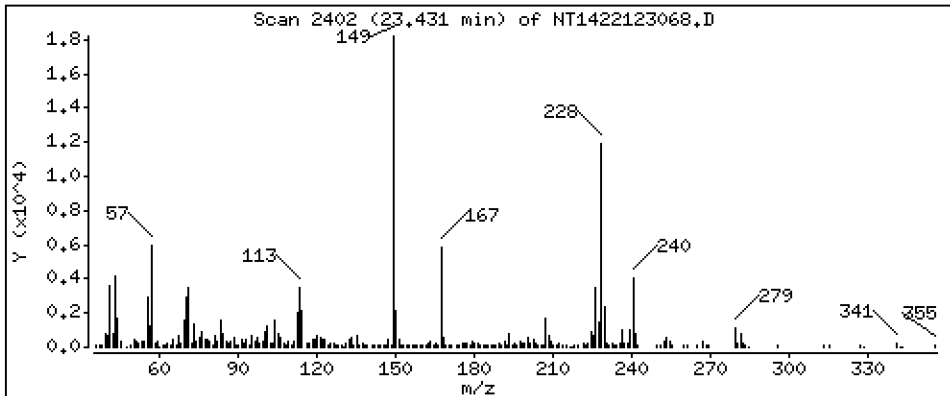
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

72 bis(2-Ethylhexyl)phthalate

Concentration: 0,5136 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

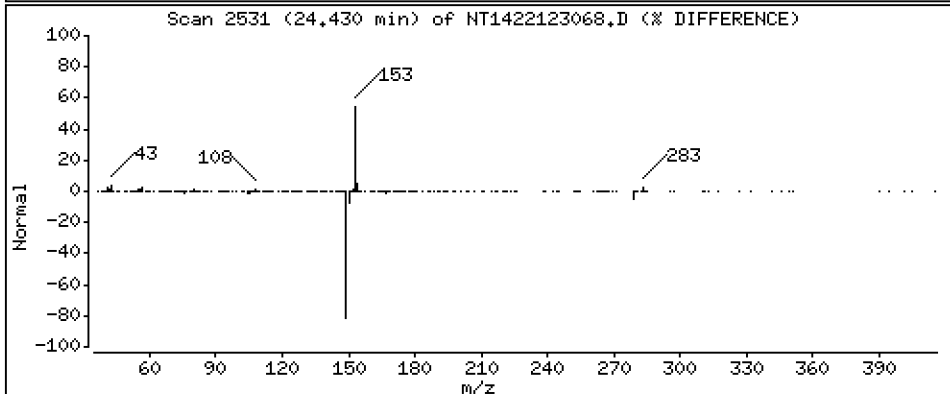
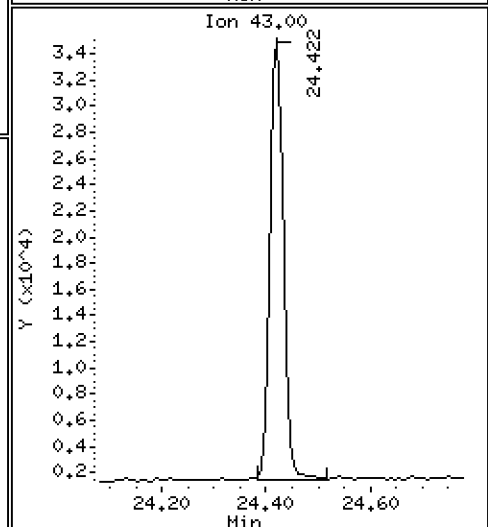
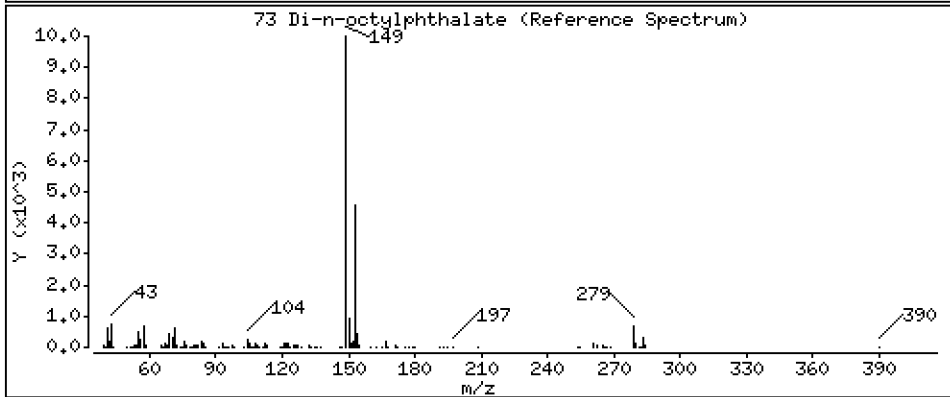
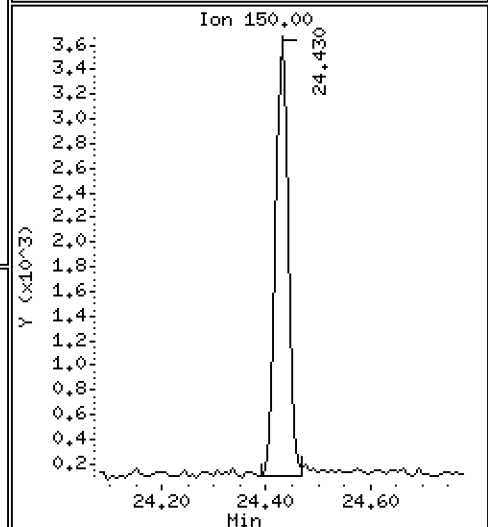
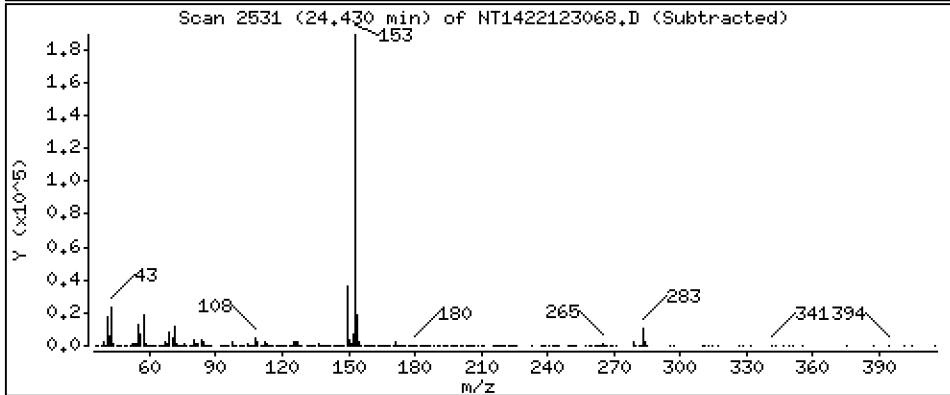
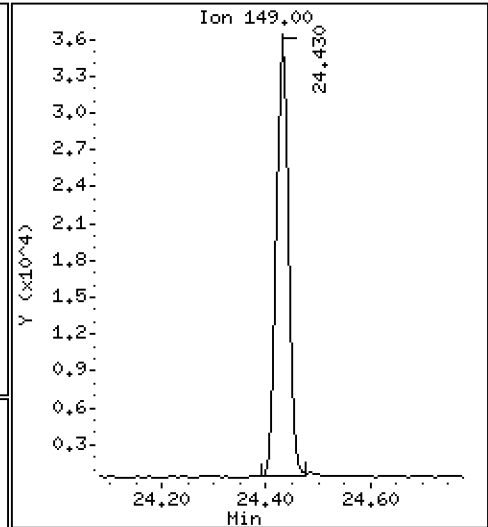
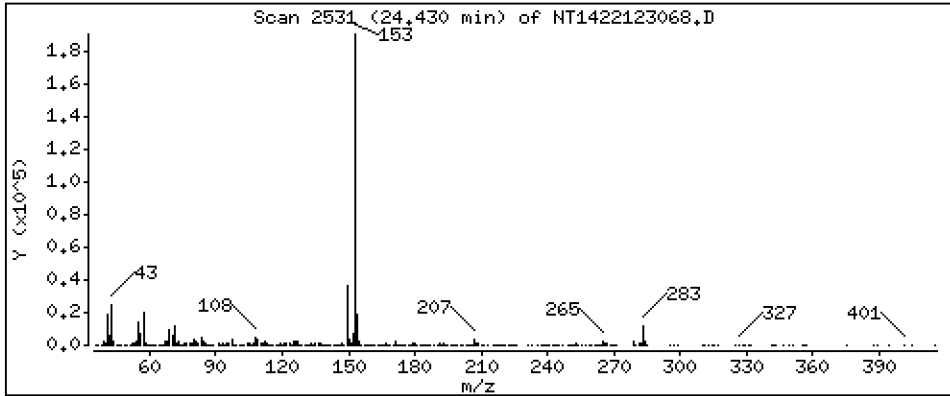
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

73 Di-n-octylphthalate

Concentration: 0,4900 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

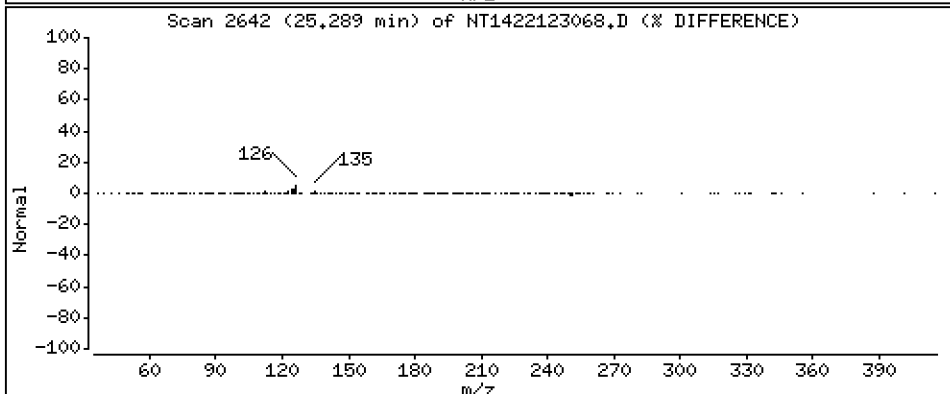
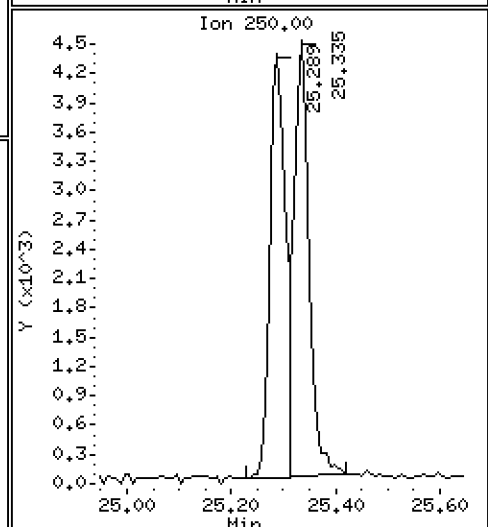
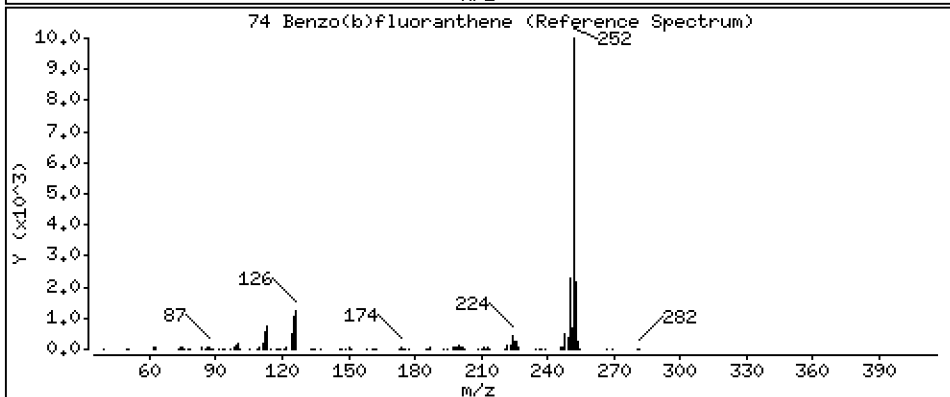
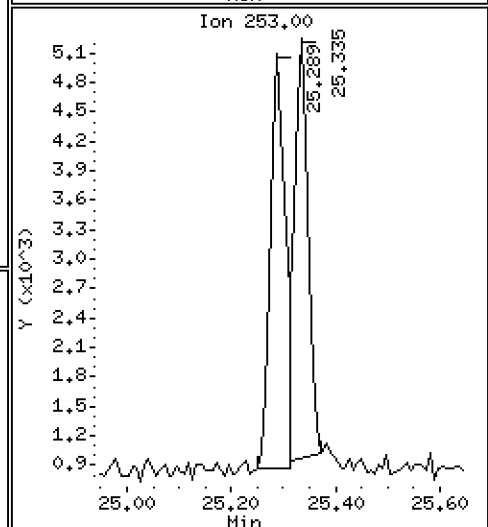
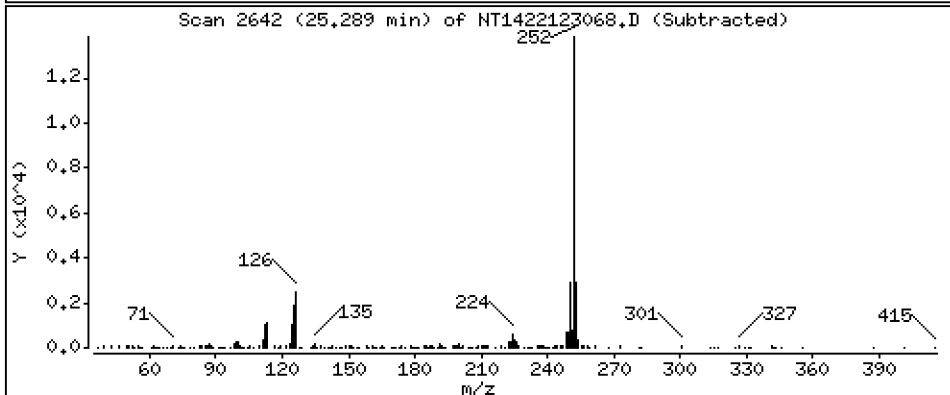
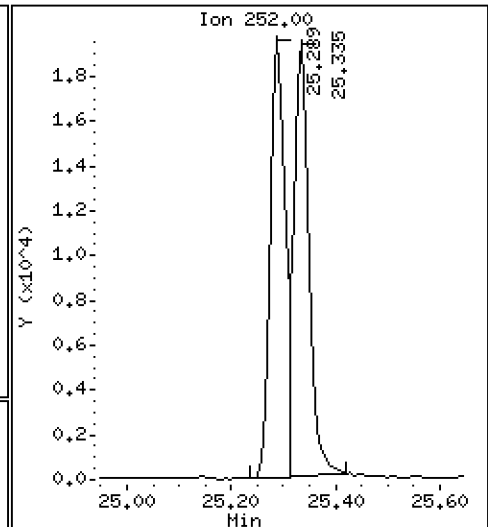
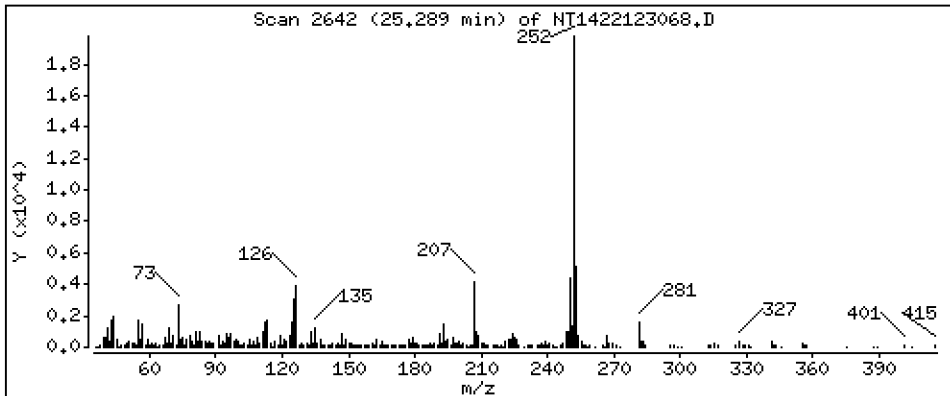
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

74 Benzo(b)fluoranthene

Concentration: 0,5437 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

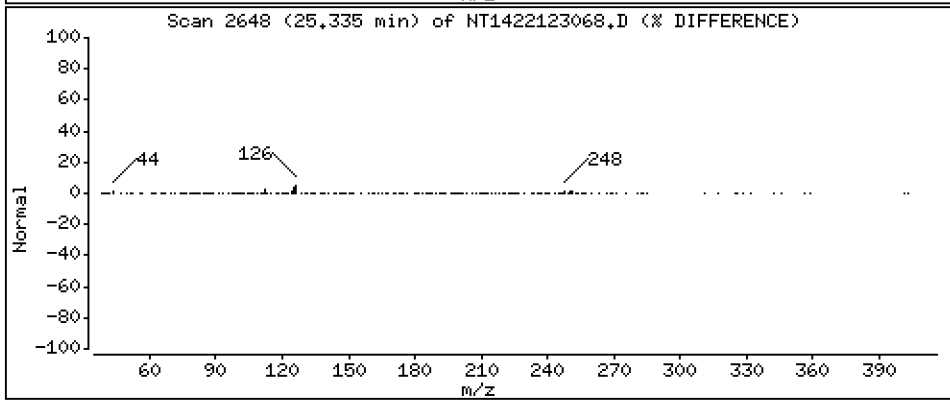
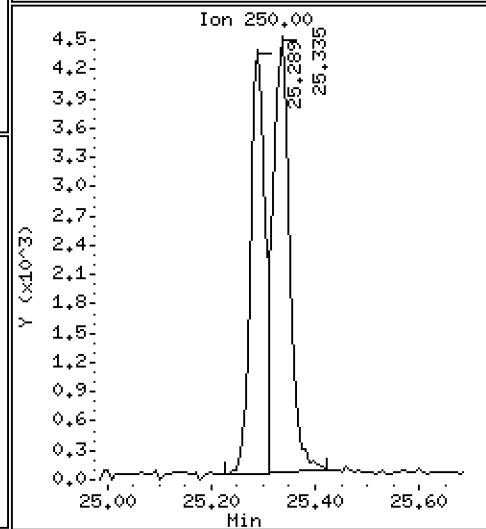
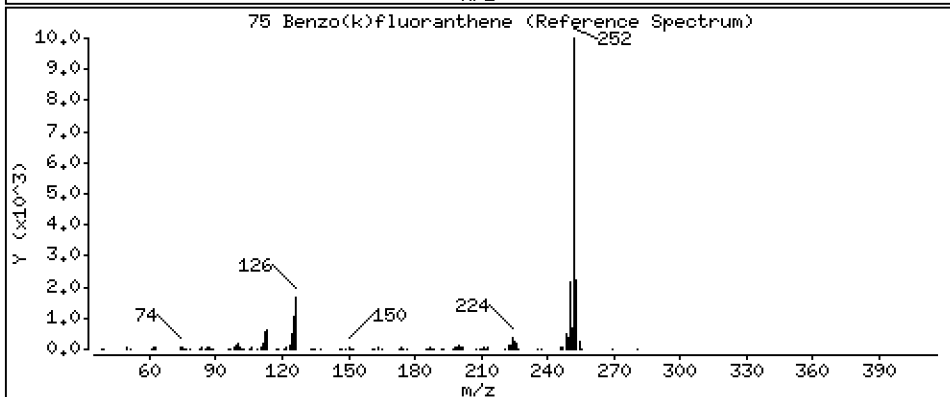
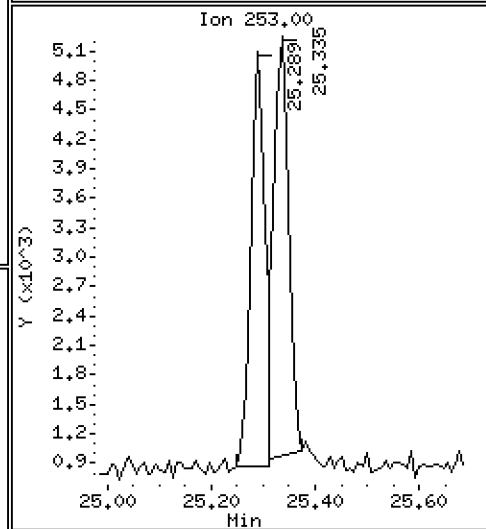
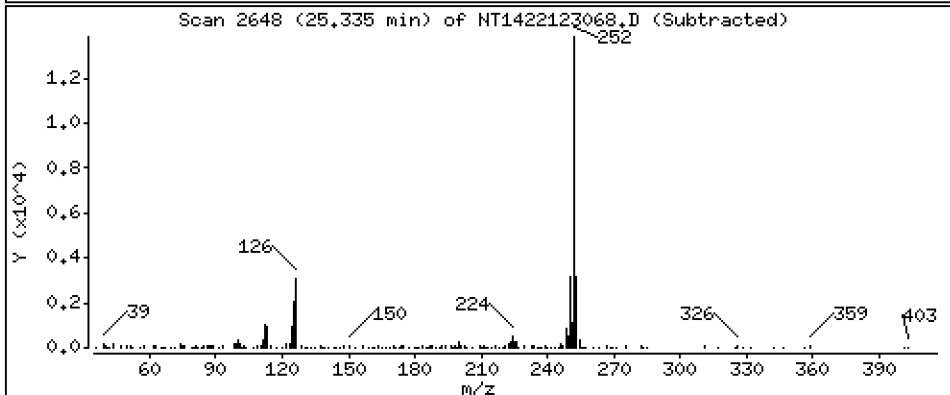
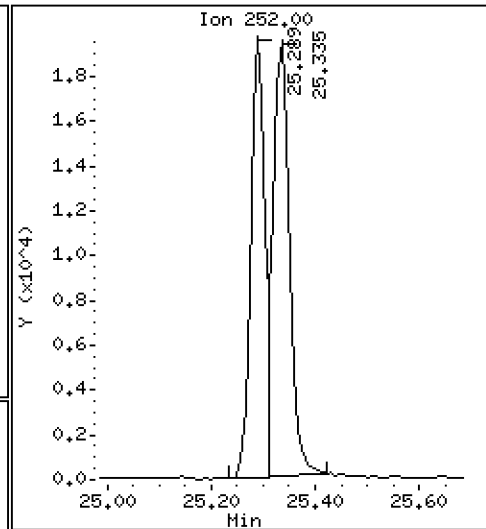
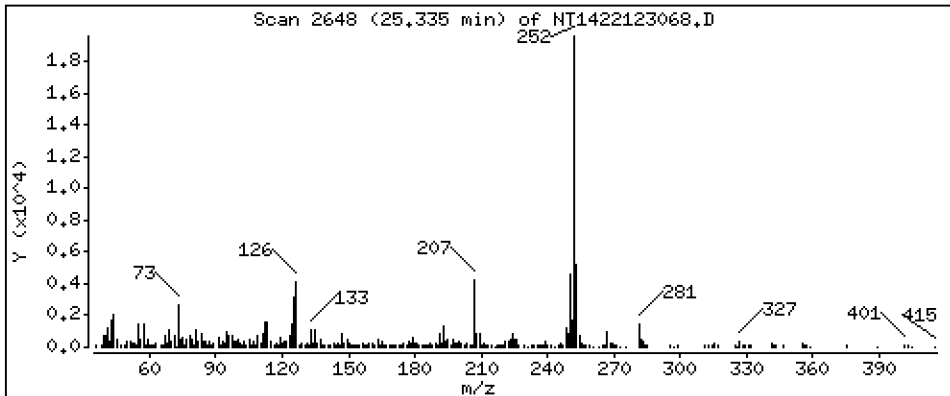
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

75 Benzo(k)fluoranthene

Concentration: 0,5702 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

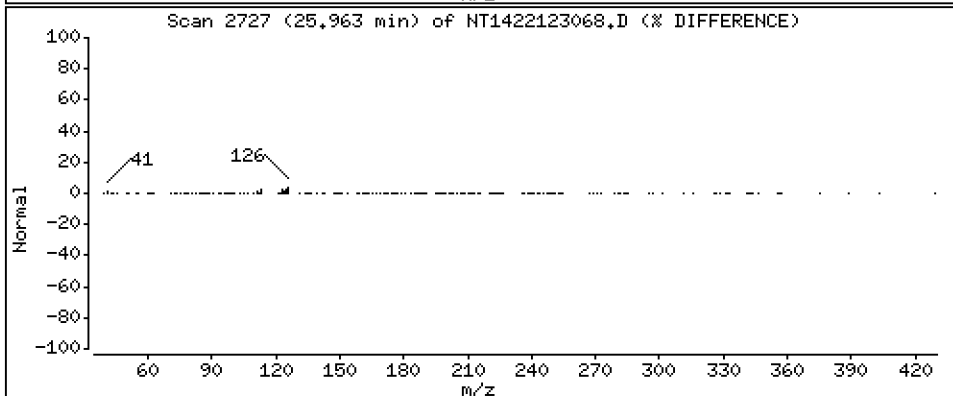
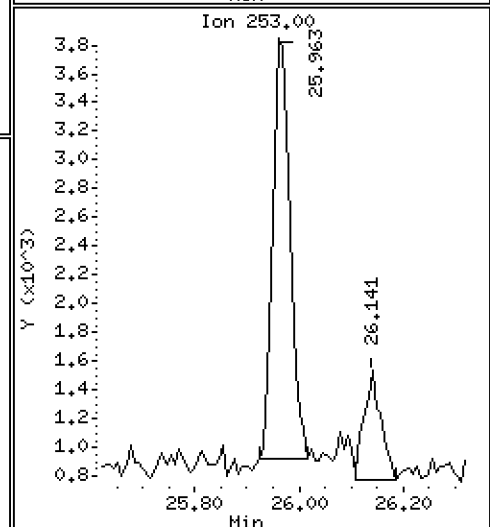
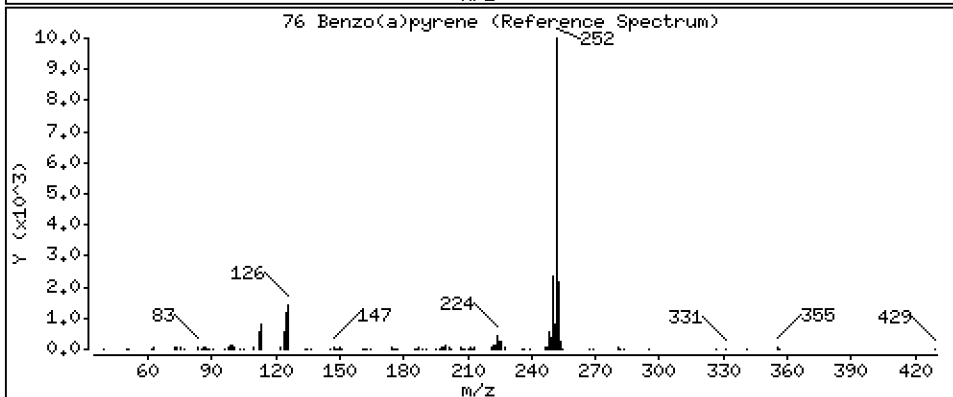
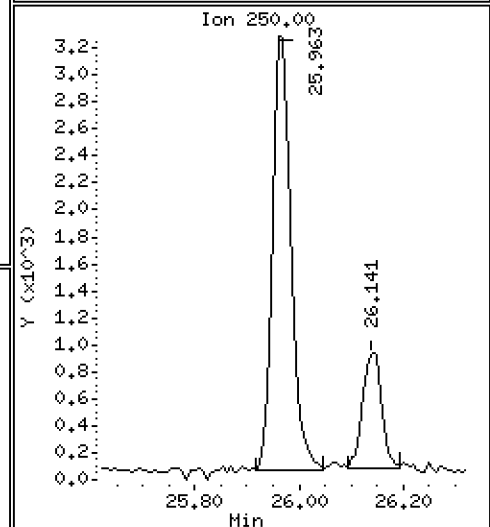
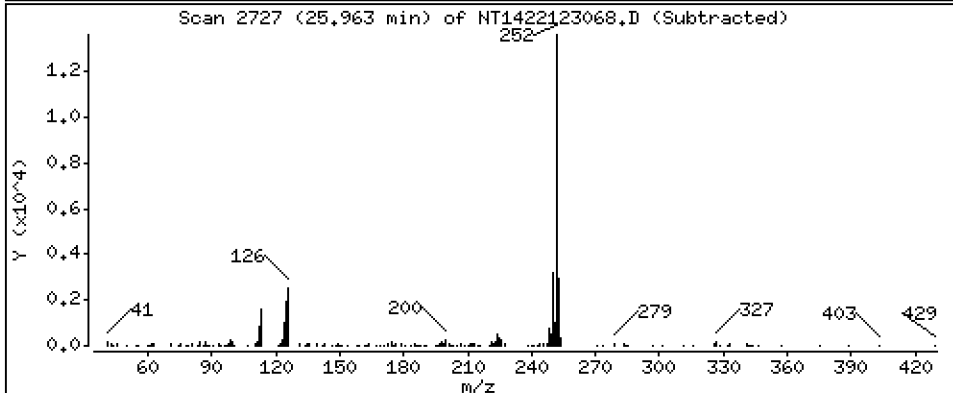
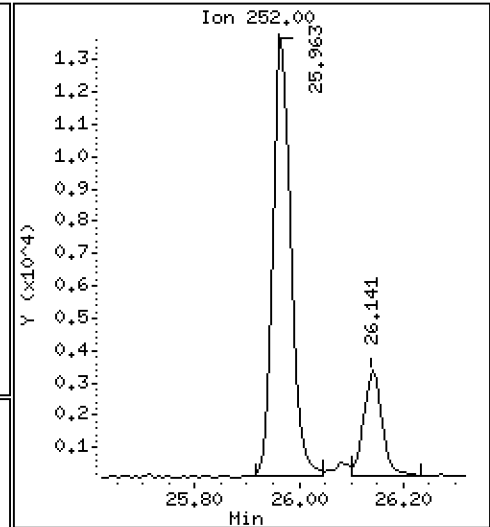
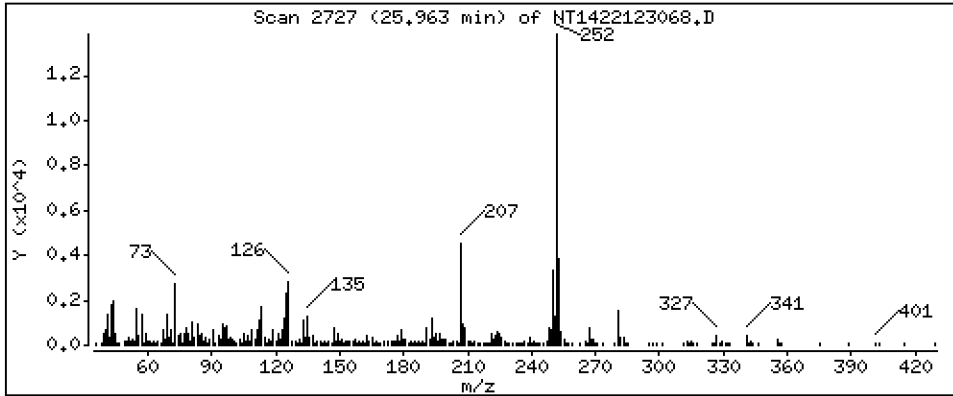
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

76 Benzo(a)pyrene

Concentration: 0,5296 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

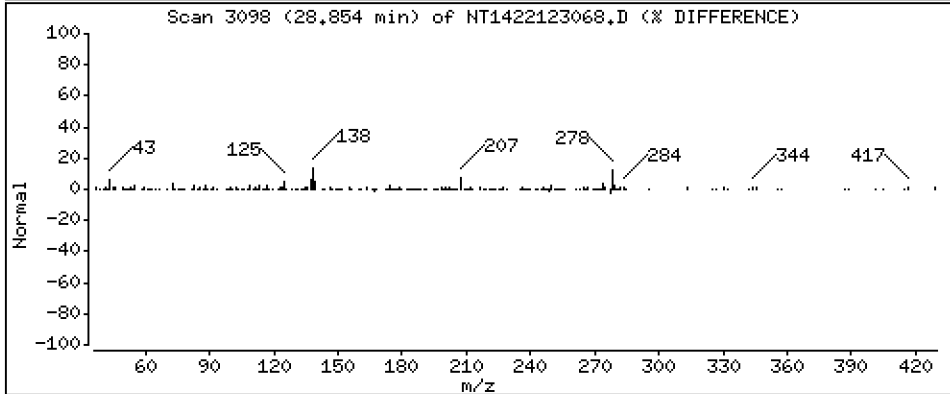
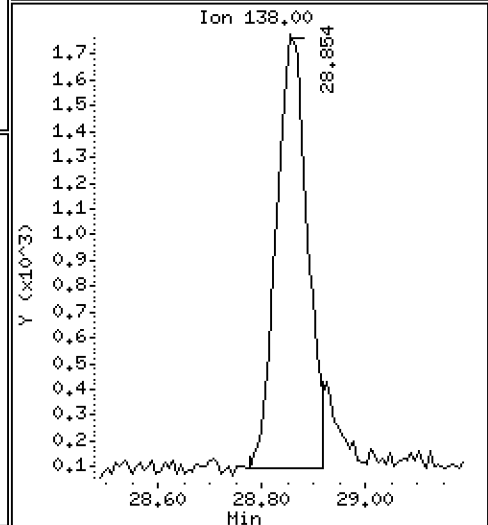
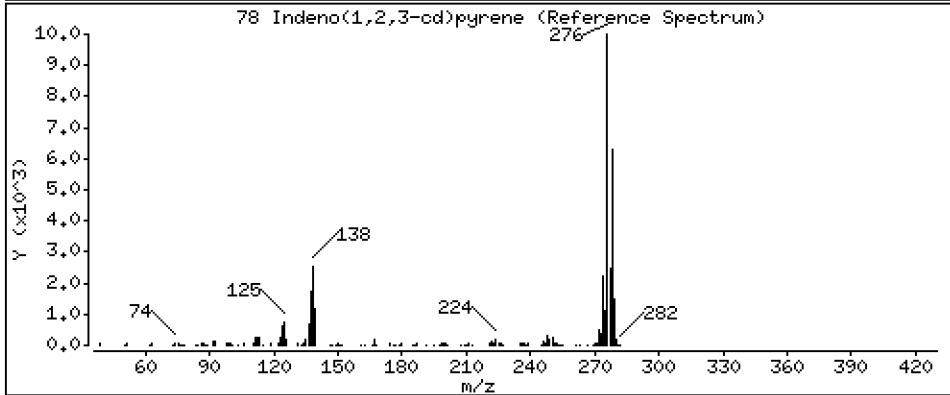
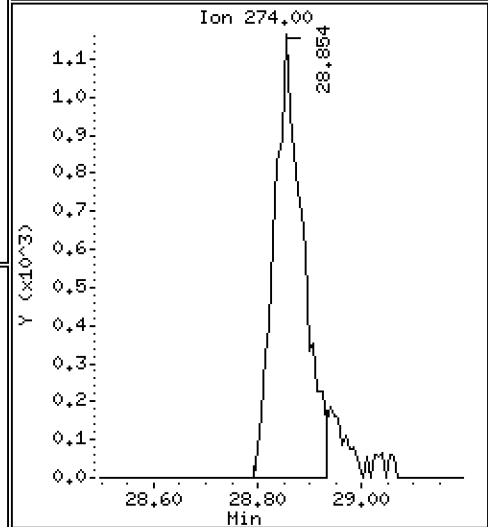
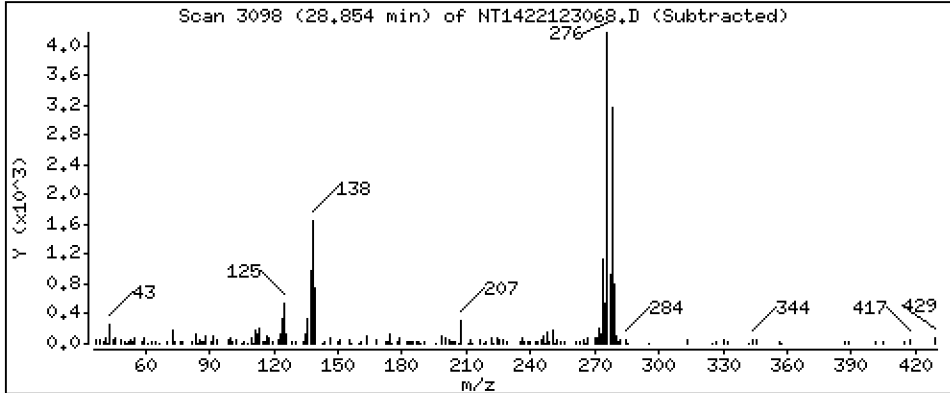
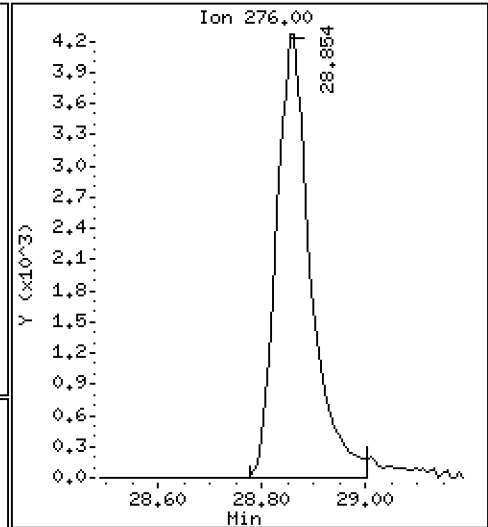
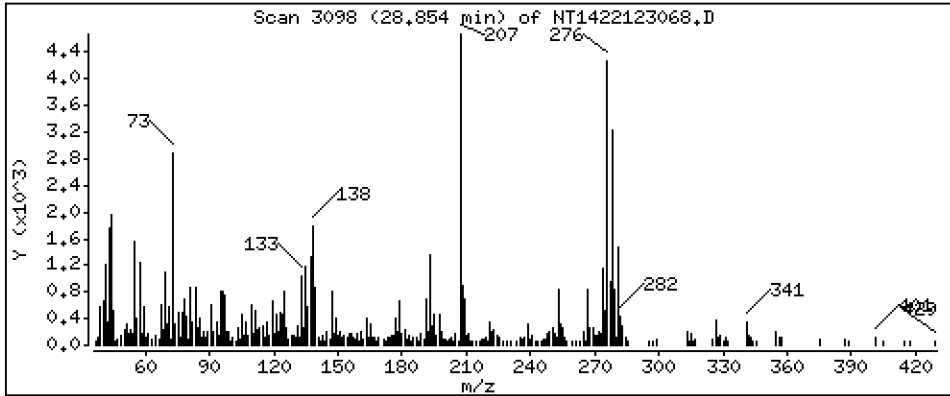
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

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

Concentration: 0,2876 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

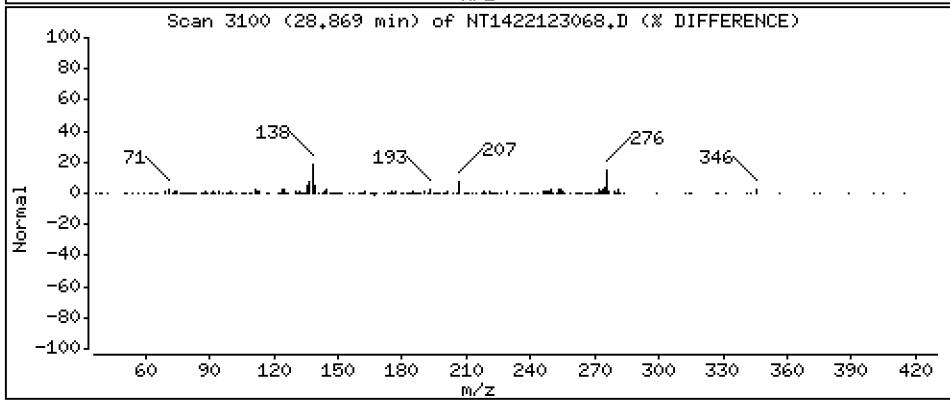
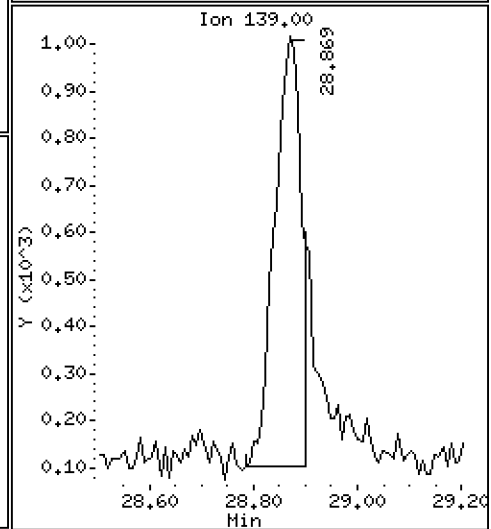
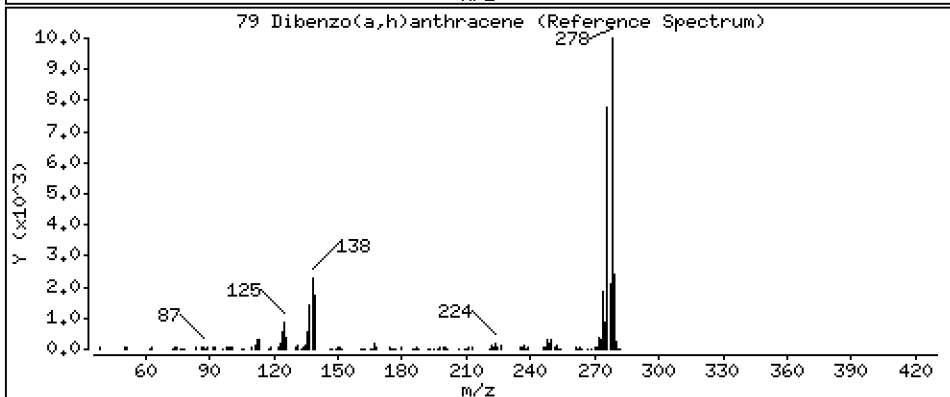
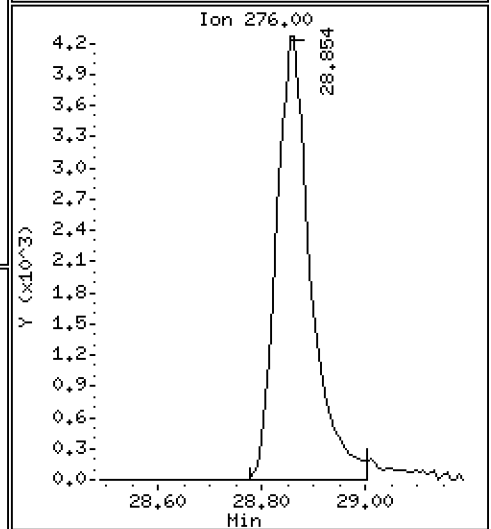
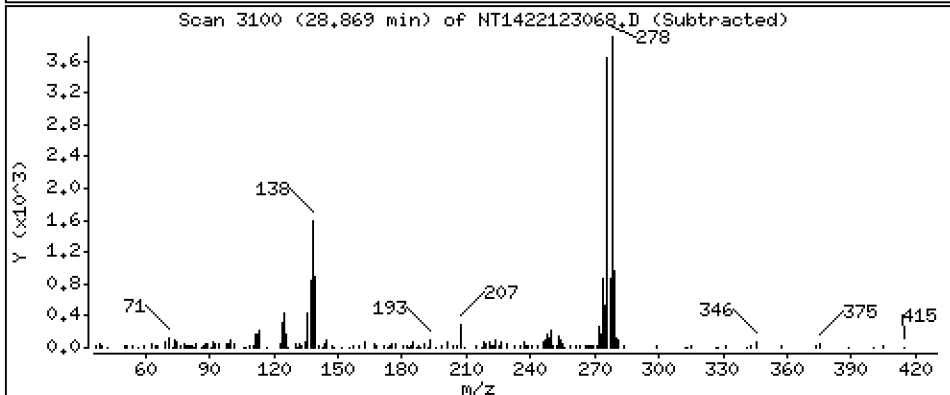
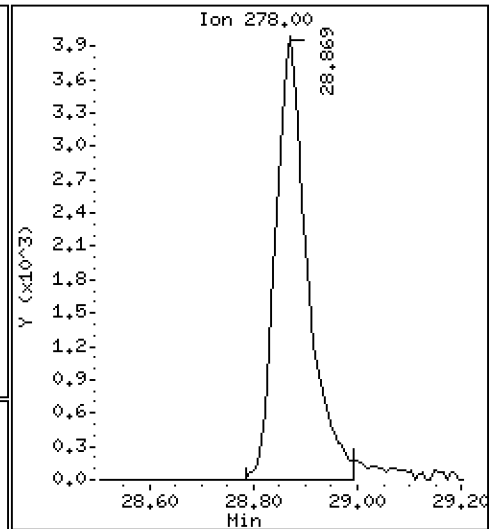
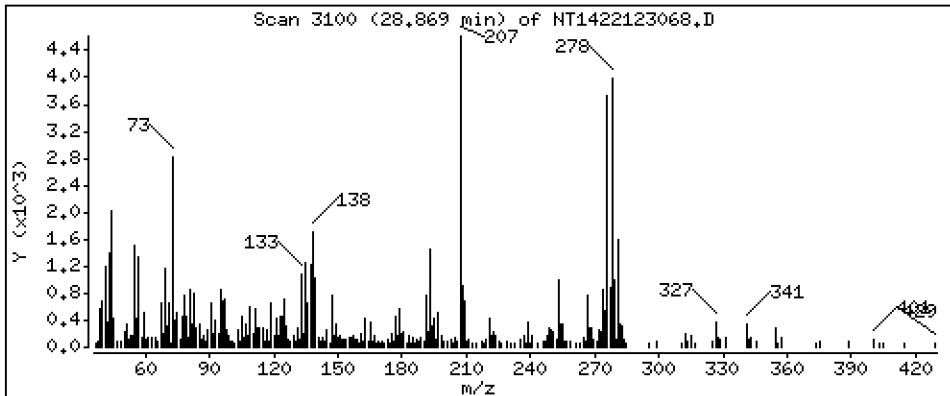
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

79 Dibenzo(a,h)anthracene

Concentration: 0,2950 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

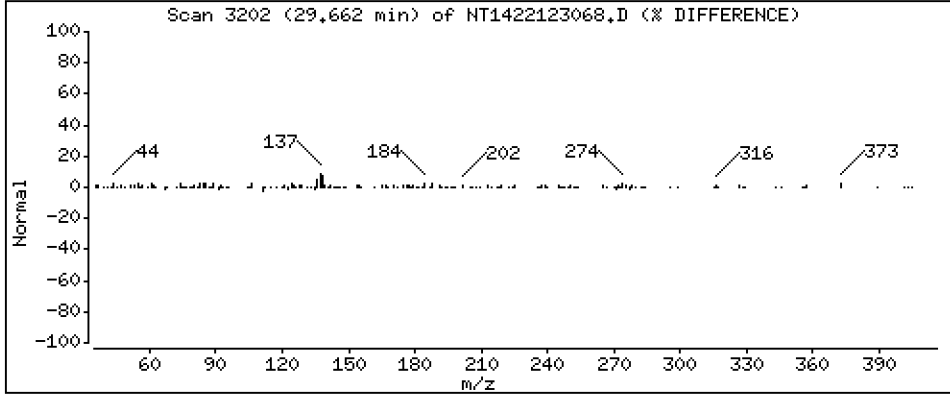
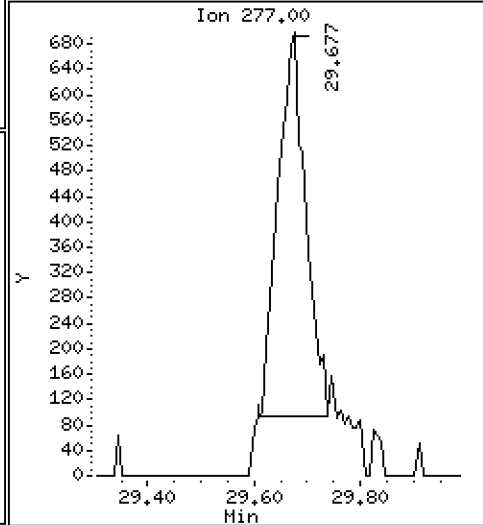
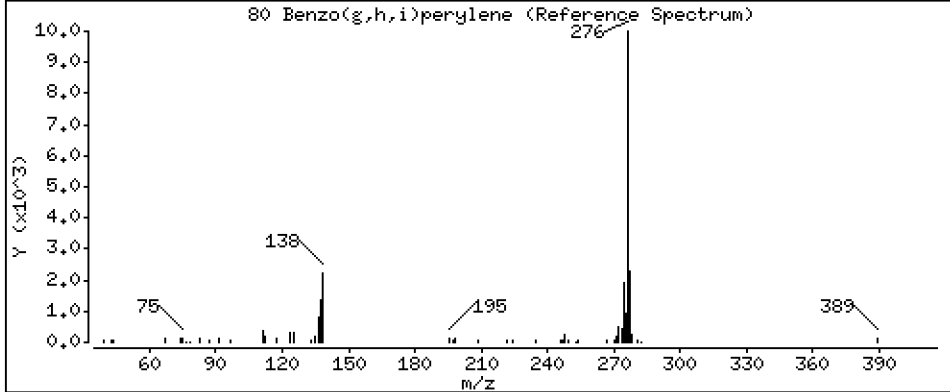
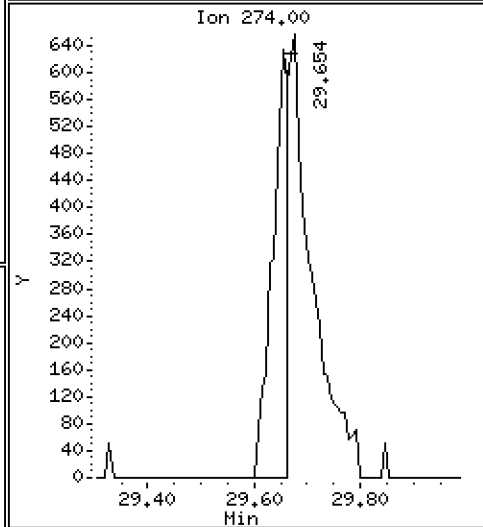
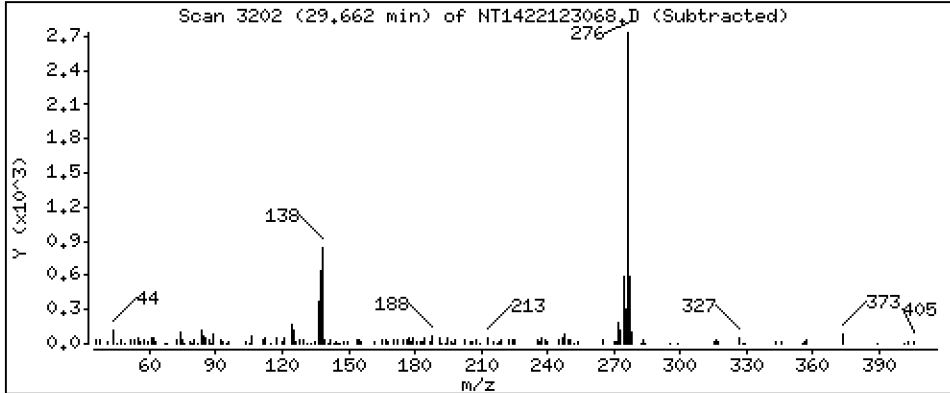
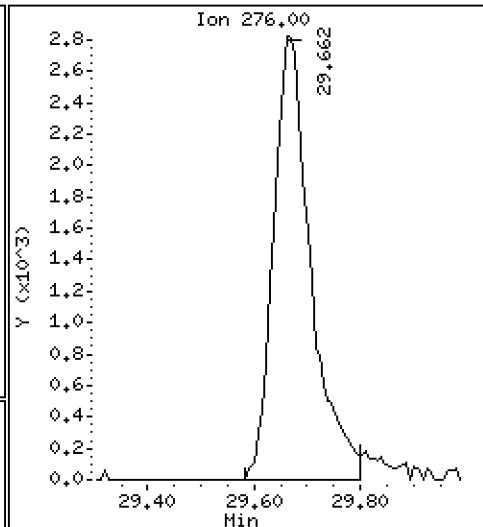
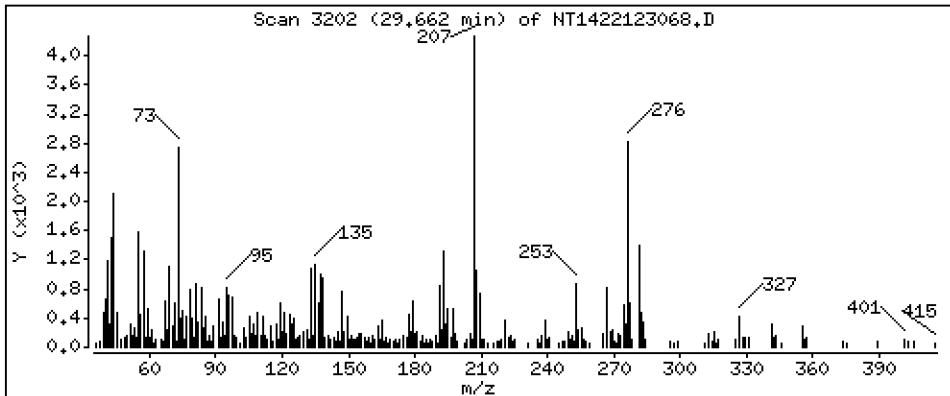
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

80 Benzo(g,h,i)perylene

Concentration: 0,2408 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

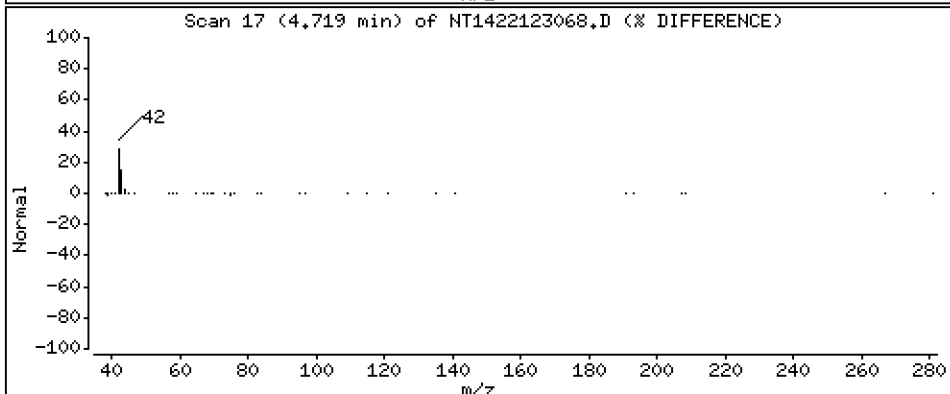
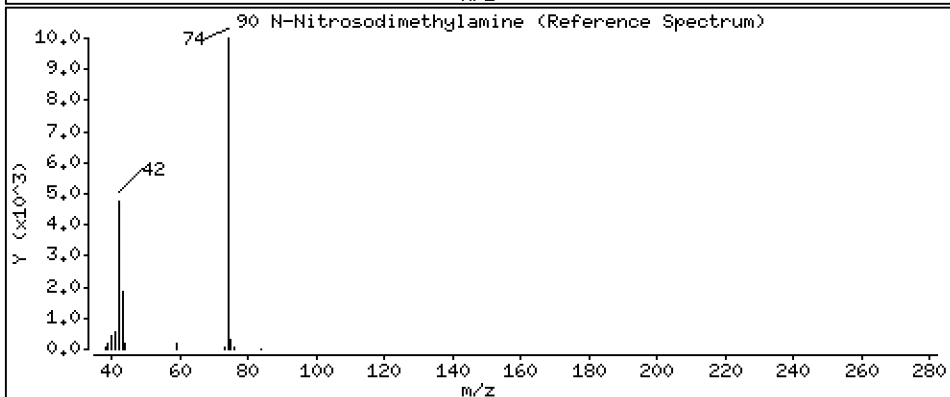
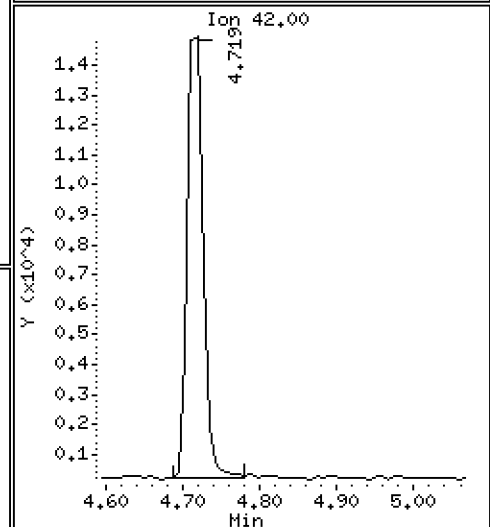
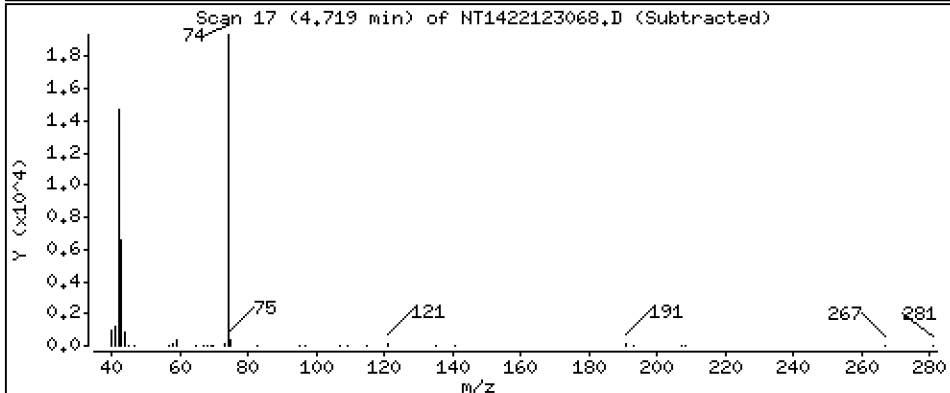
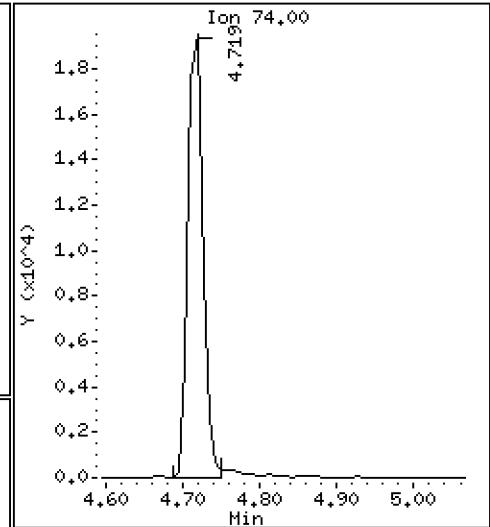
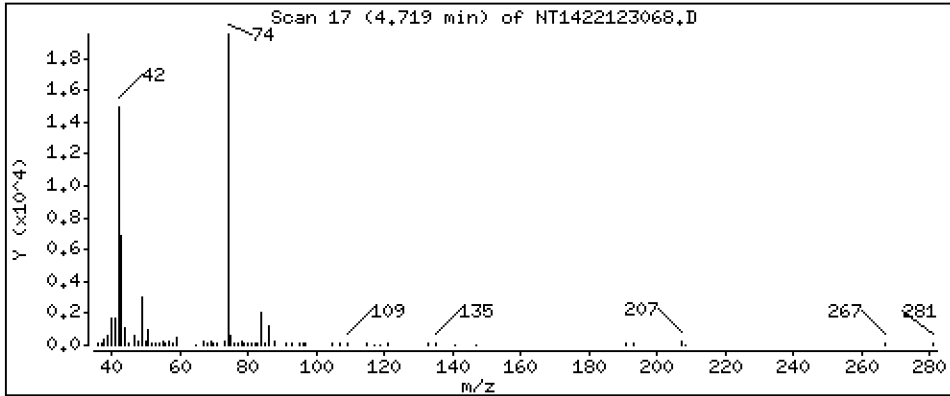
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

90 N-Nitrosodimethylamine

Concentration: 1,011 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

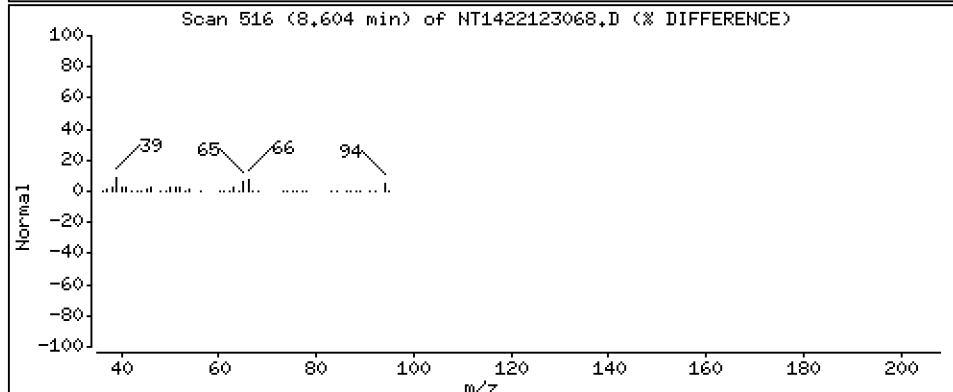
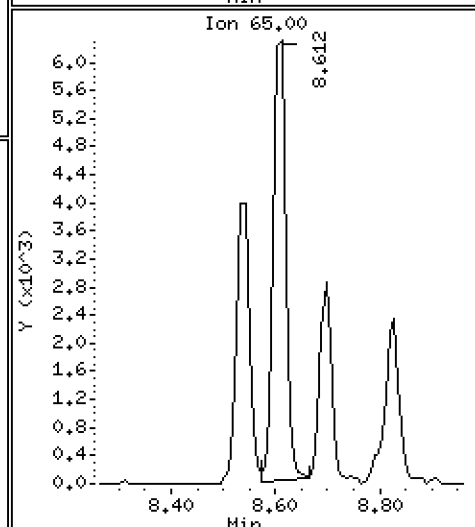
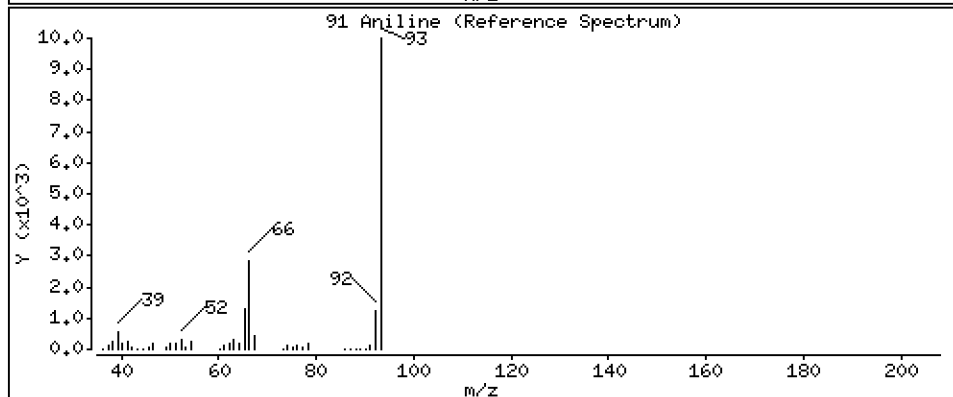
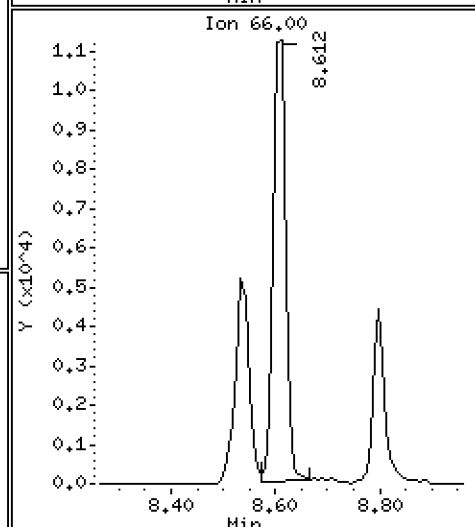
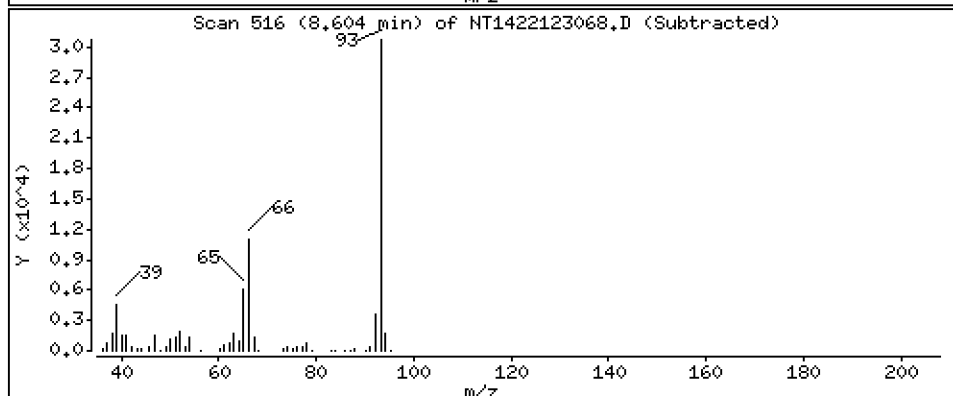
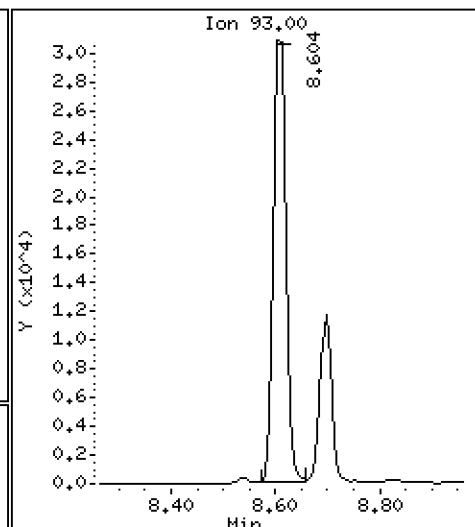
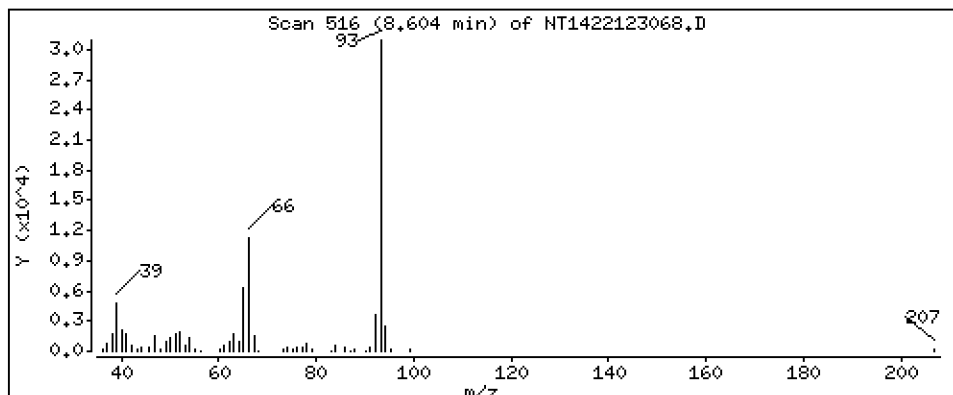
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

91 Aniline

Concentration: 0.9709 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

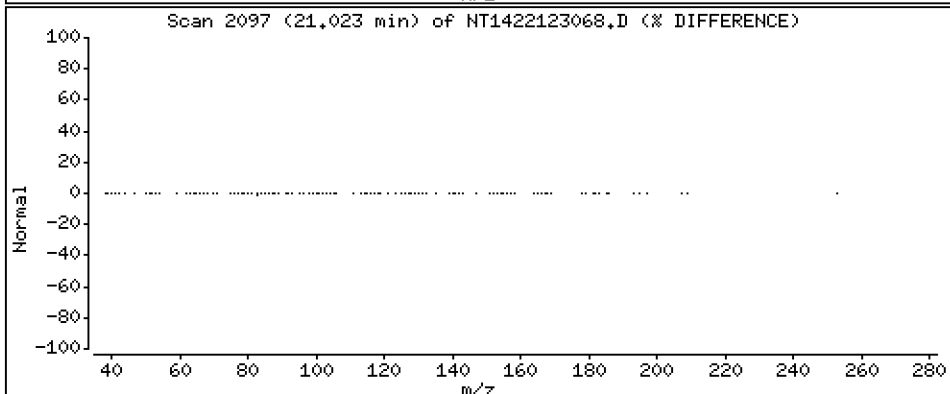
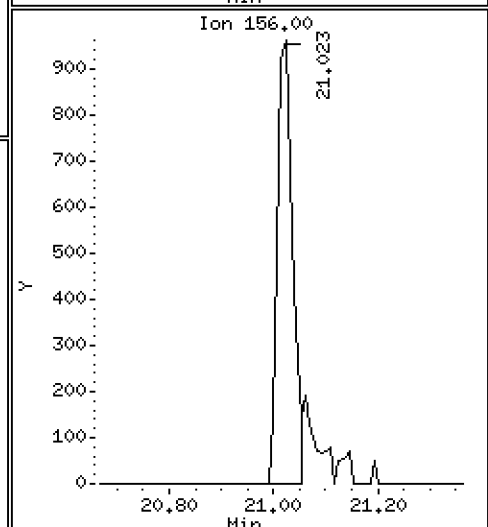
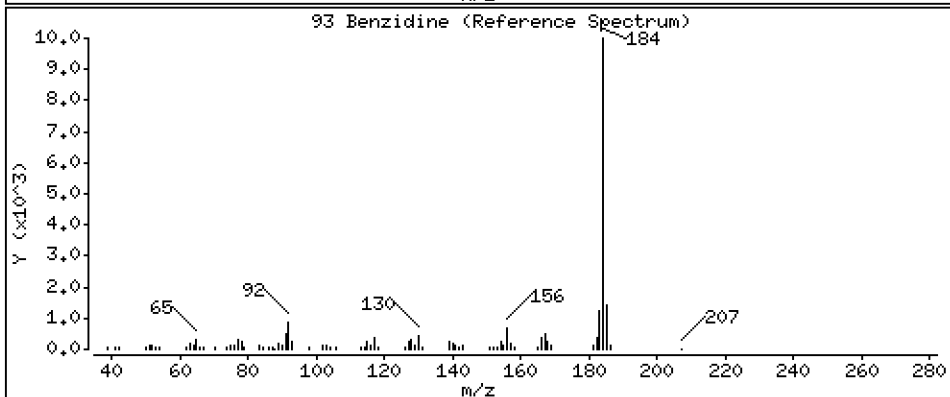
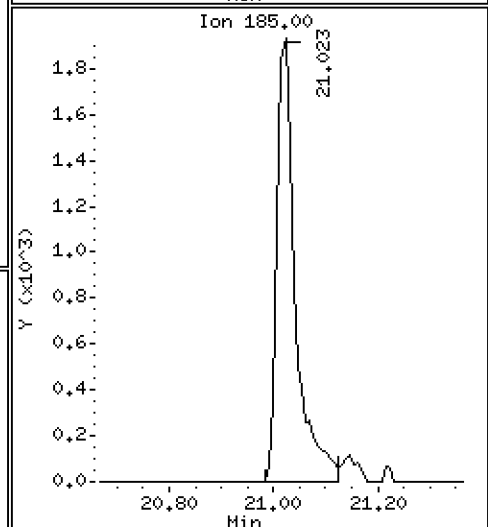
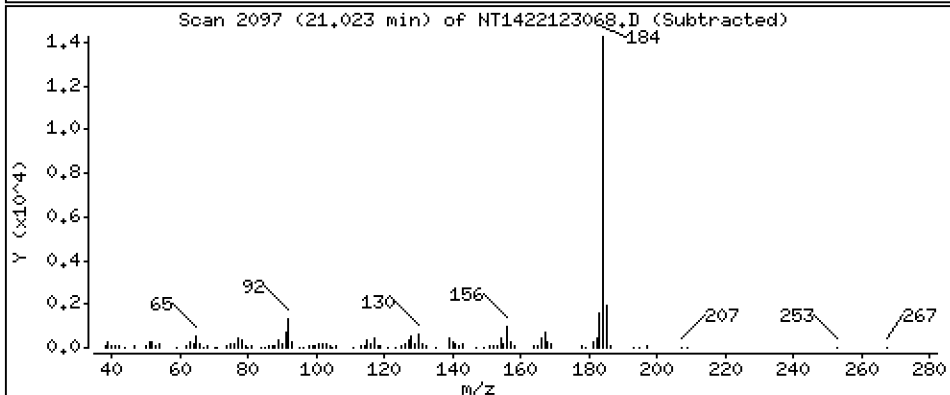
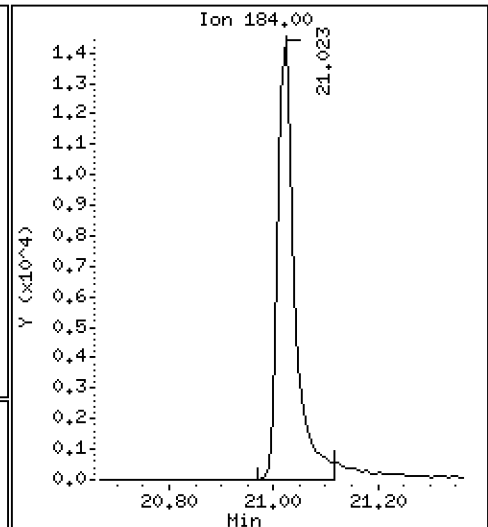
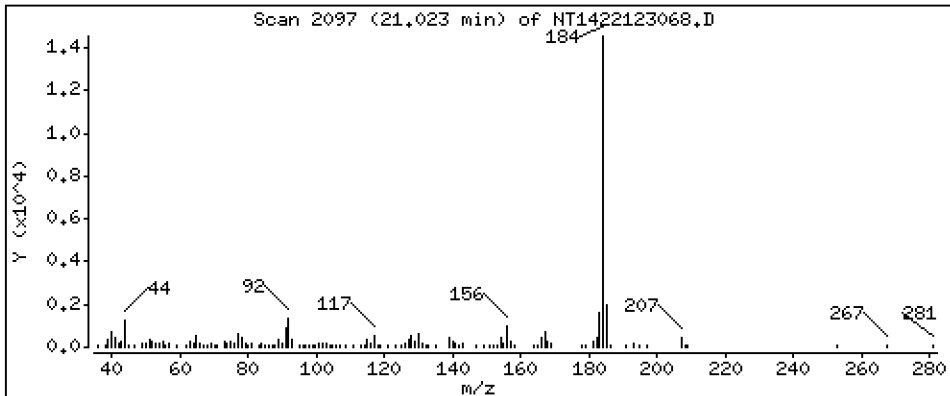
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

93 Benzidine

Concentration: 0,8853 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

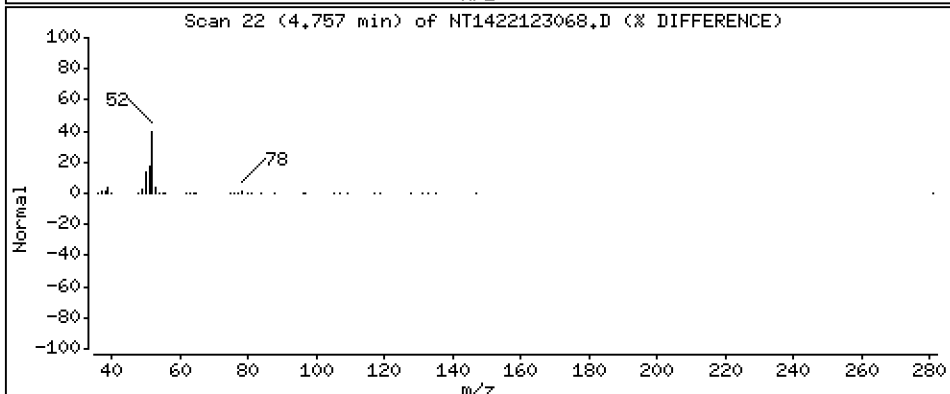
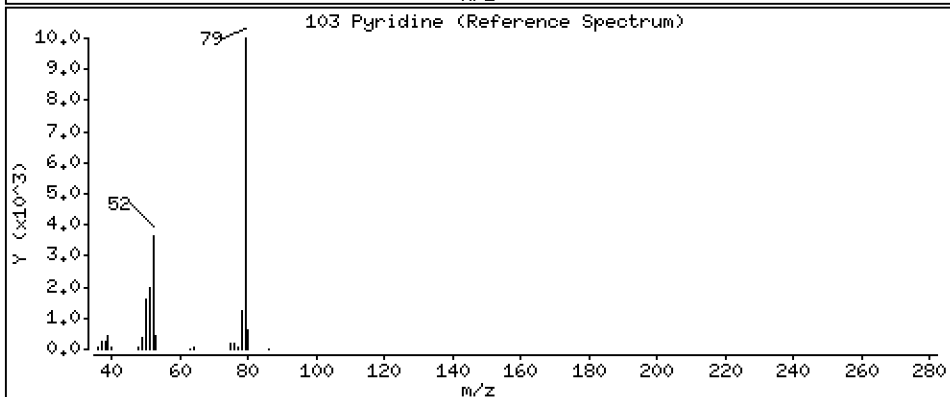
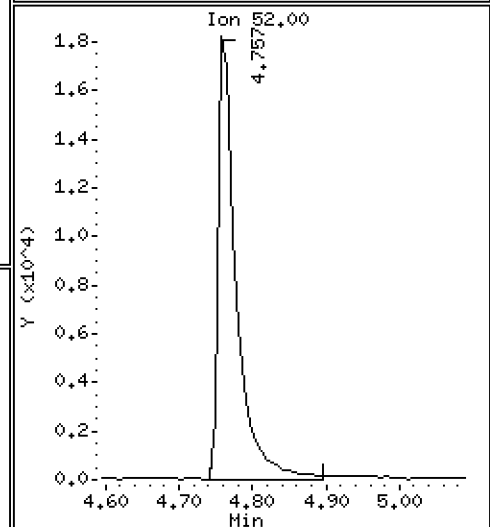
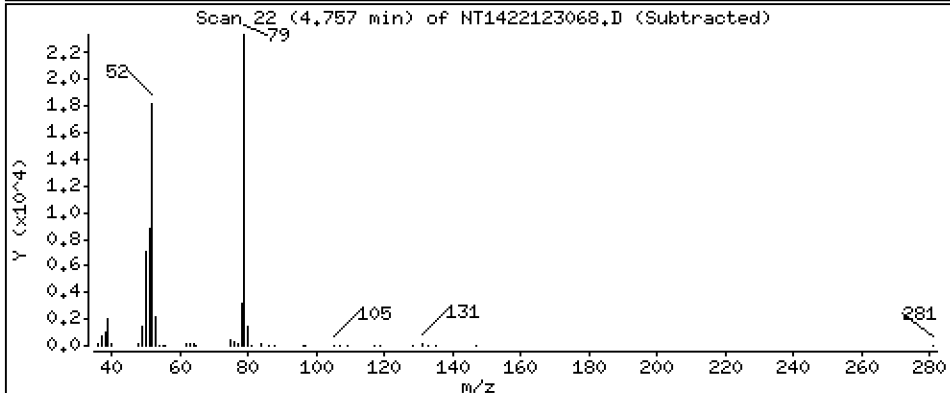
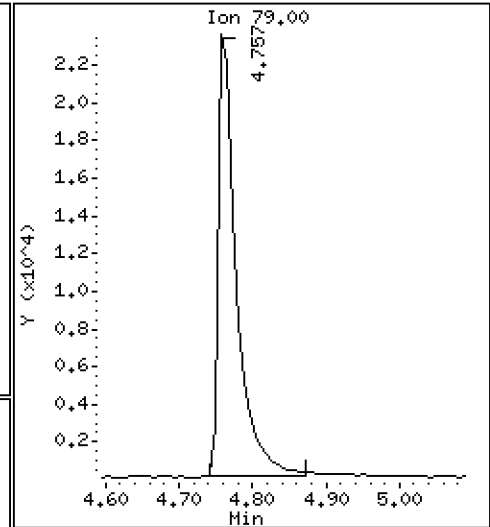
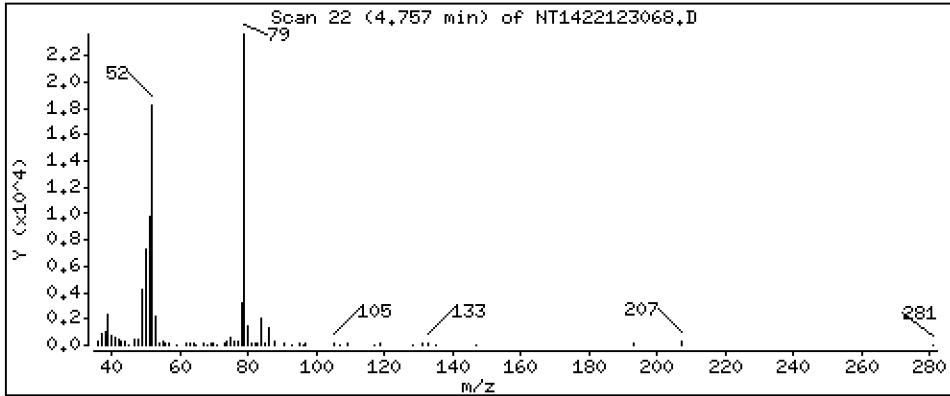
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

103 Pyridine

Concentration: 0,5018 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

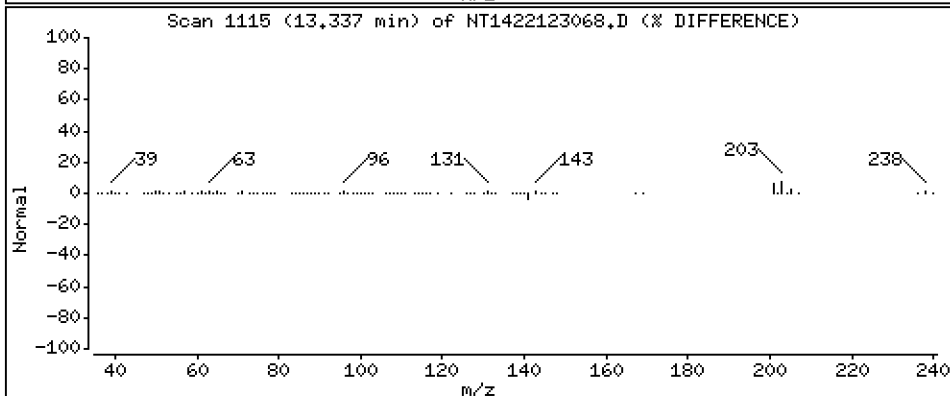
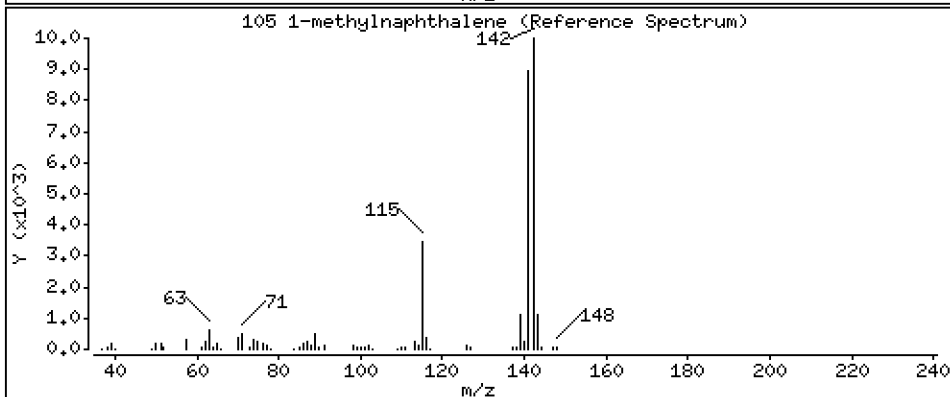
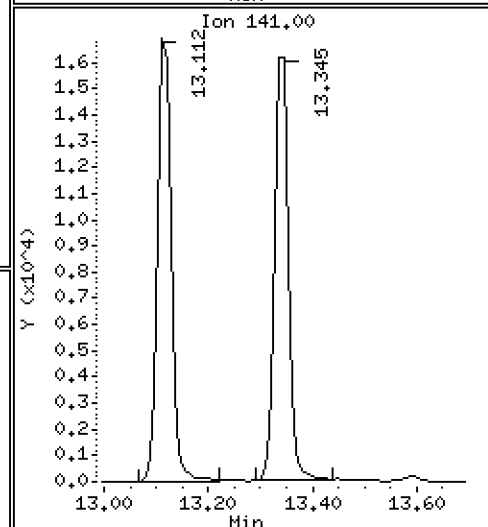
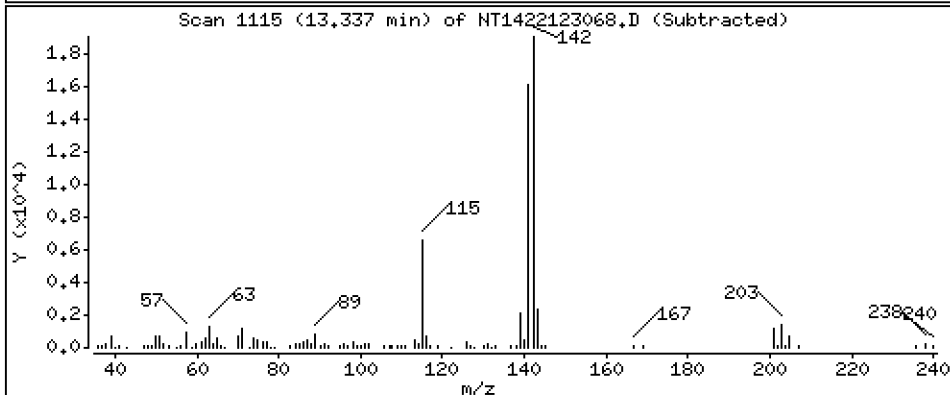
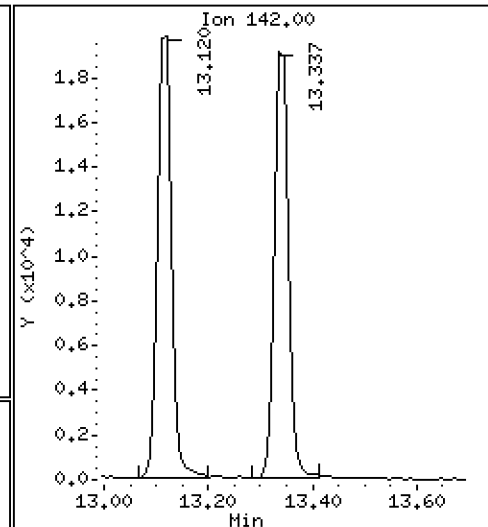
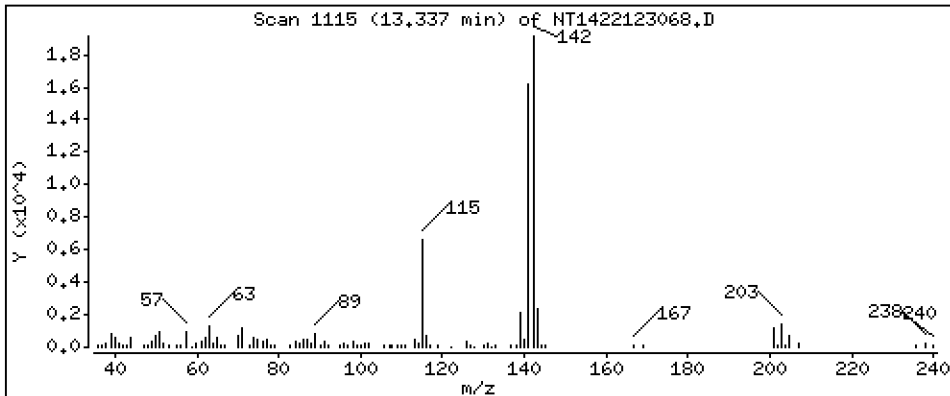
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

105 1-methylnaphthalene

Concentration: 0,4742 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

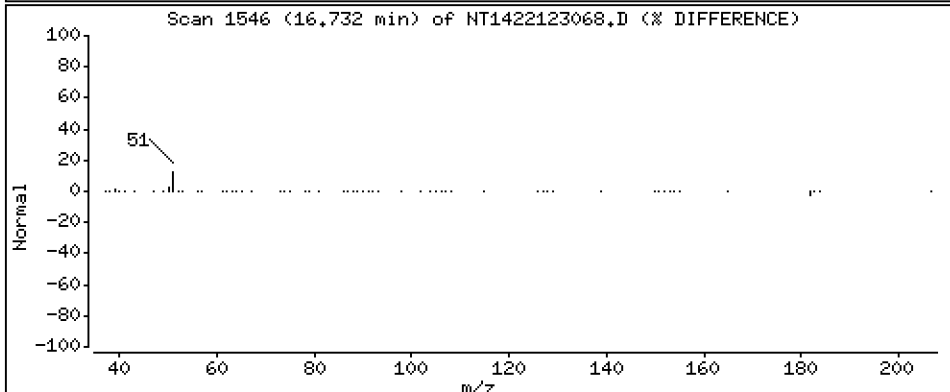
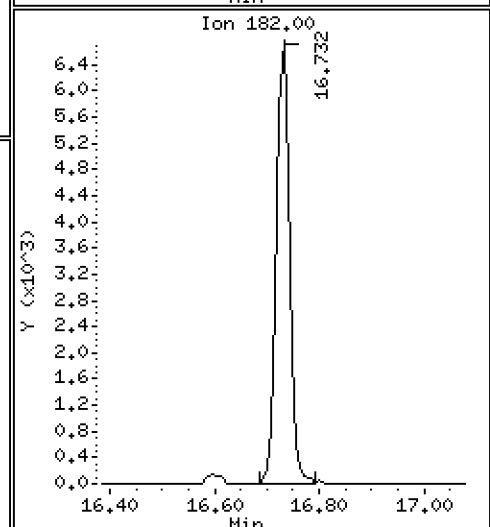
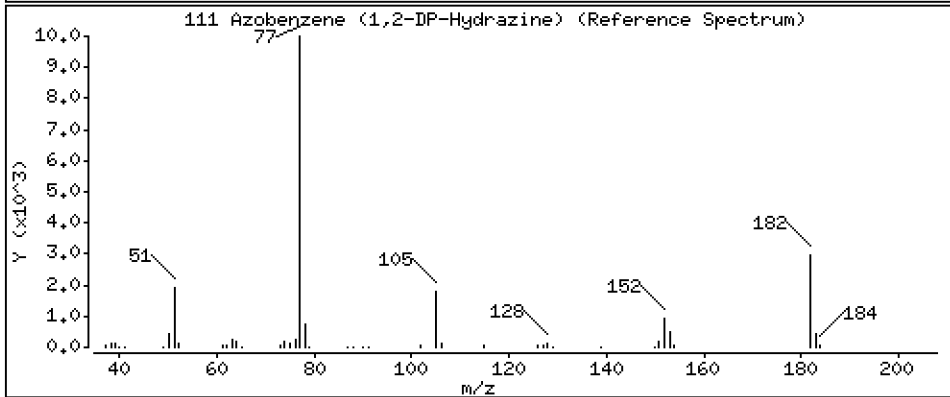
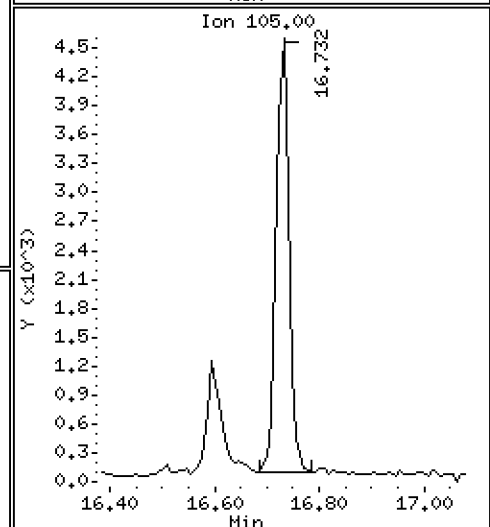
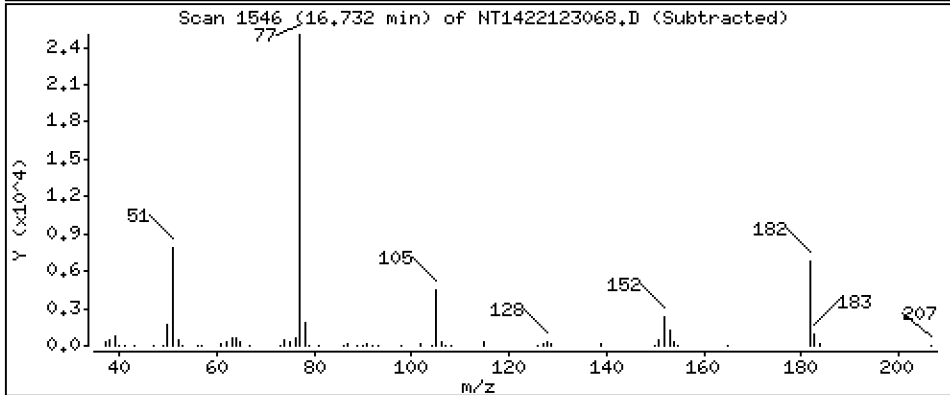
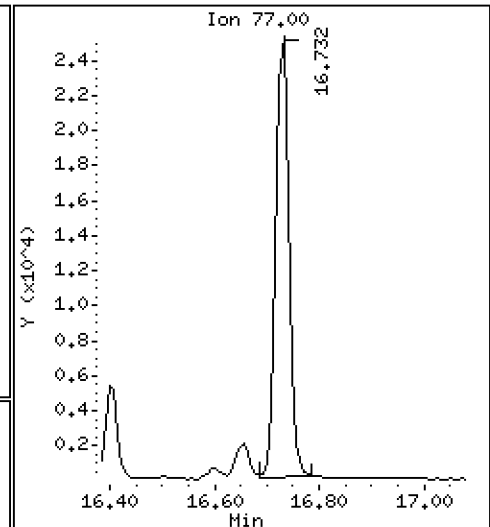
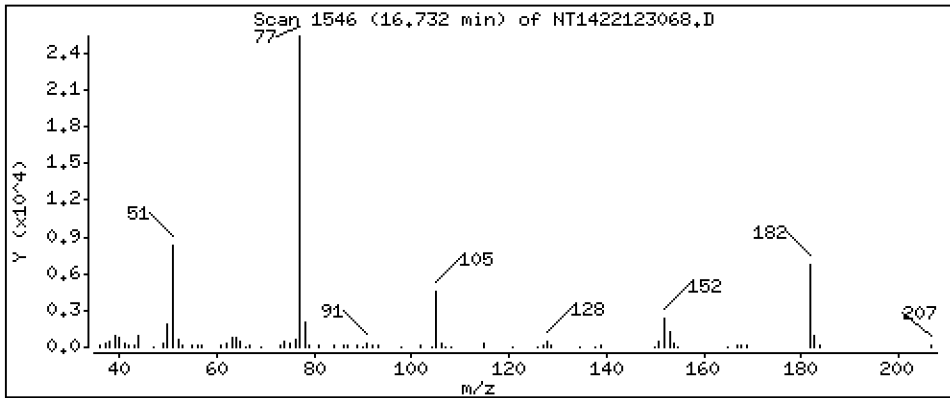
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

111 Azobenzene (1,2-DP-Hydrazine)

Concentration: 0,5334 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

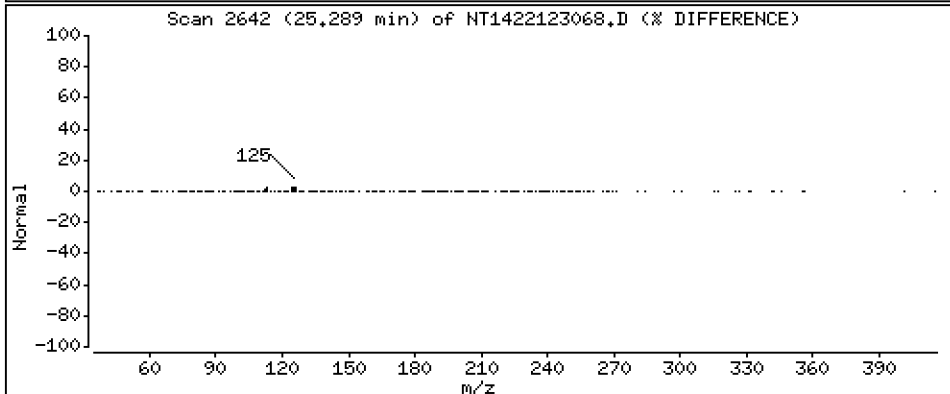
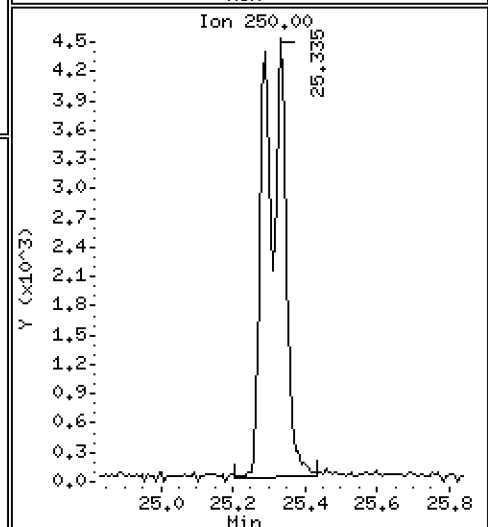
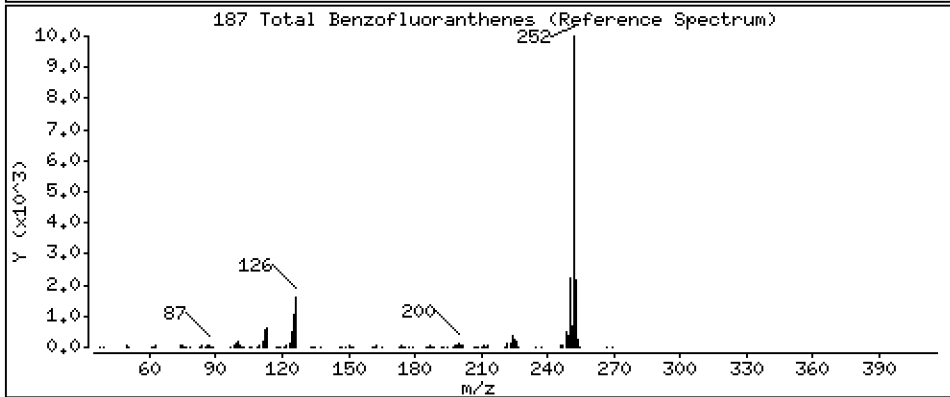
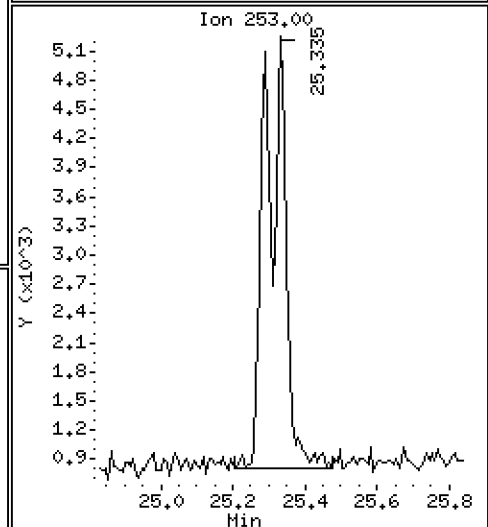
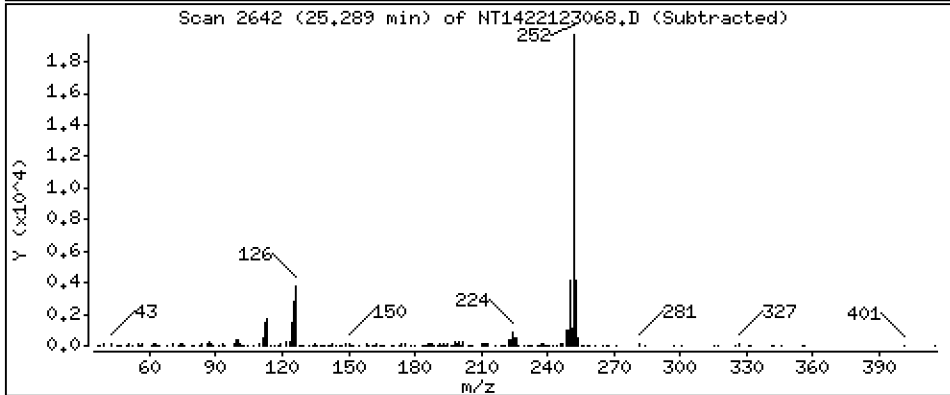
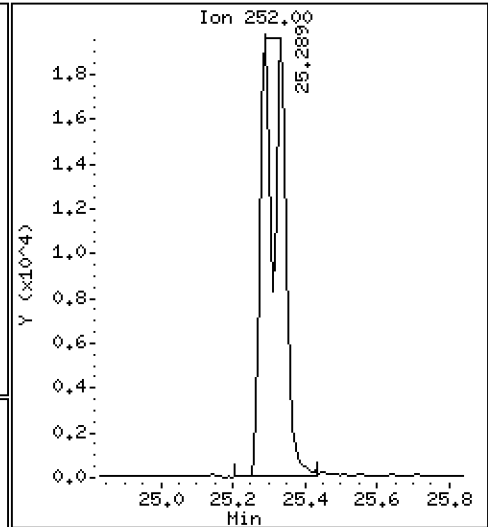
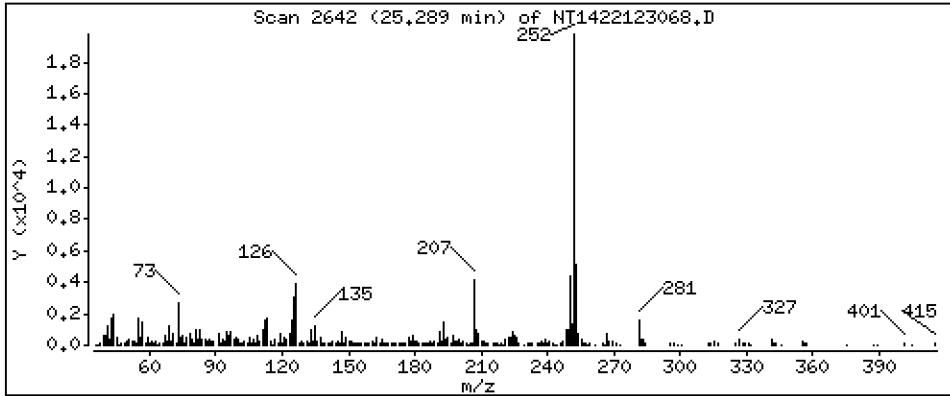
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

187 Total Benzofluoranthenes

Concentration: 1,127 ug/mL



Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

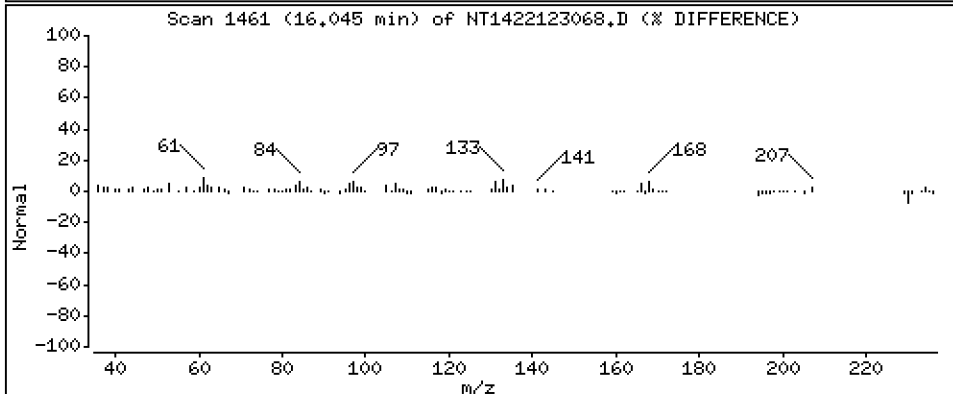
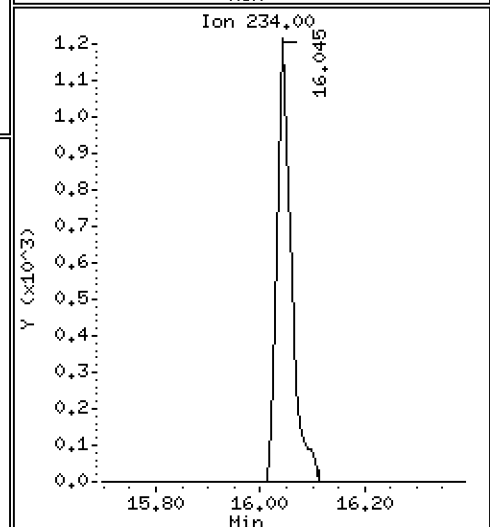
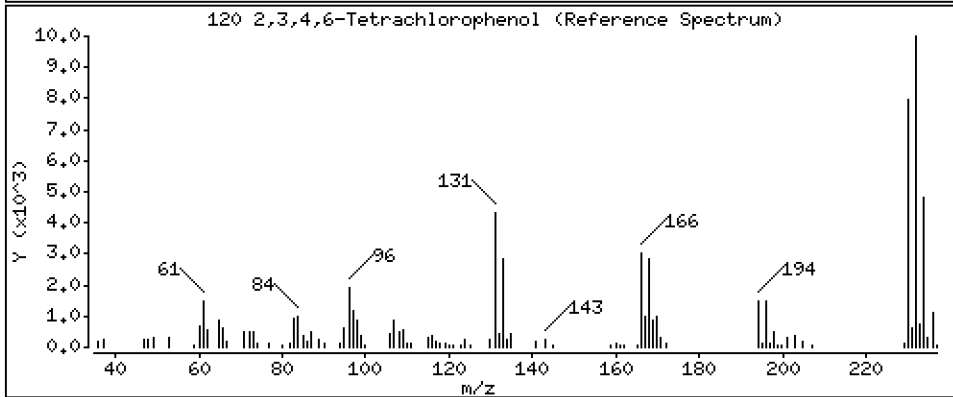
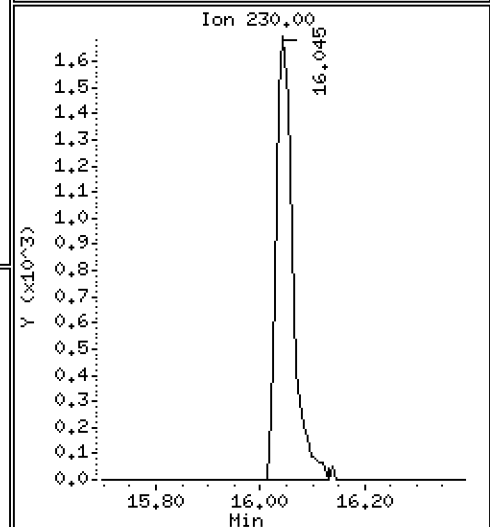
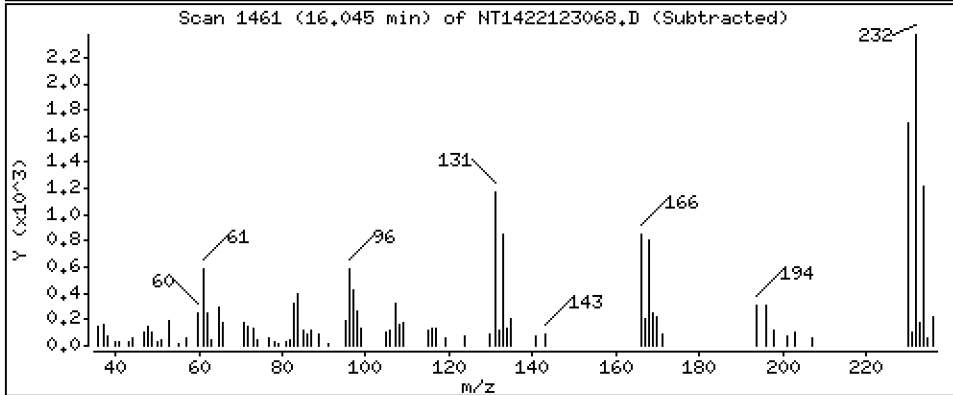
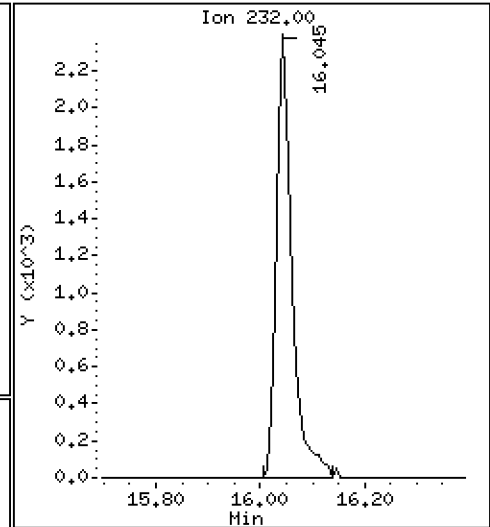
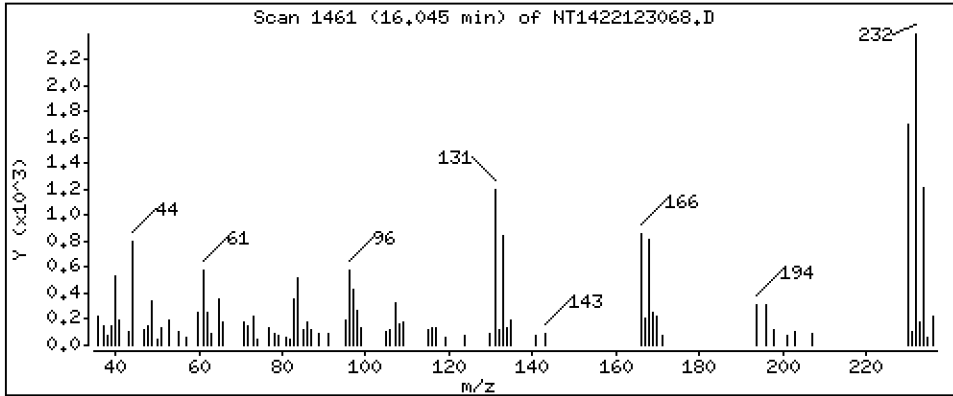
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0,25

120 2,3,4,6-Tetrachlorophenol

Concentration: 0,3210 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
 Lab Smp Id: SKL0355-LCV4
 Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
 Operator : VTS Inst ID: nt14.i
 Smp Info : SKL0355-LCV4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
 Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: ICAL.sub
 Target Version: 4.14
 Processing Host: VANS-201906

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
\$ 1 2-Fluorophenol	112		6.919	6.919	(0.755)	26679	0.73231	0.7323
\$ 2 Phenol-d5	99		8.519	8.519	(0.930)	29740	0.66056	0.6606
3 Phenol	94		8.542	8.542	(0.932)	24851	0.48577	0.4858
\$ 5 2-Chlorophenol-d4	132		8.797	8.797	(0.960)	26376	0.69756	0.6976
4 Bis(2-Chloroethyl)ether	93		8.696	8.696	(0.949)	16971	0.48157	0.4816
6 2-Chlorophenol	128		8.828	8.827	(0.964)	21442	0.51635	0.5163
7 1,3-Dichlorobenzene	146		9.098	9.098	(0.993)	21932	0.49807	0.4981
* 8 1,4-Dichlorobenzene-d4	152		9.160	9.160	(1.000)	113715	4.00000	
9 1,4-Dichlorobenzene	146		9.191	9.191	(1.003)	21144	0.50685	0.5068
\$ 10 1,2-Dichlorobenzene-d4	152		9.525	9.525	(1.040)	12409	0.48016	0.4802
12 1,2-Dichlorobenzene	146		9.548	9.556	(1.042)	20298	0.49614	0.4961
11 Benzyl alcohol	108		9.440	9.440	(1.030)	8811	0.38688	0.3869
14 2,2'-oxybis(1-Chloropropane)	121		9.735	9.735	(1.063)	5608	0.47279	0.4728 (M)
13 2-Methylphenol	108		9.665	9.665	(1.055)	18106	0.48706	0.4871
17 Hexachloroethane	117		10.154	10.154	(1.108)	6330	0.41257	0.4126
16 N-Nitroso-di-n-propylamine	70		9.991	9.998	(1.091)	11492	0.50748	0.5075
15 4-Methylphenol	108		9.937	9.936	(1.085)	18249	0.46535	0.4654
\$ 18 Nitrobenzene-d5	82		10.262	10.262	(0.880)	16843	0.48307	0.4831
19 Nitrobenzene	77		10.293	10.301	(0.882)	16249	0.46925	0.4693
20 Isophorone	82		10.751	10.751	(0.922)	19966	0.45240	0.4524
21 2-Nitrophenol	139		10.938	10.937	(0.938)	10030	0.47315	0.4732
22 2,4-Dimethylphenol	107		10.992	10.992	(0.942)	35304	0.97686	0.9769
23 Bis(2-Chloroethoxy)methane	93		11.178	11.186	(0.958)	16990	0.49487	0.4949
24 Benzoic acid	105		11.093	11.209	(0.951)	9855	0.44771	0.4477
25 2,4-Dichlorophenol	162		11.395	11.395	(0.977)	29244	0.95995	0.9599
26 1,2,4-Trichlorobenzene	180		11.581	11.581	(0.993)	16108	0.48901	0.4890
* 27 Naphthalene-d8	136		11.666	11.673	(1.000)	412900	4.00000	
28 Naphthalene	128		11.712	11.712	(1.004)	49324	0.48541	0.4854
29 4-Chloroaniline	127		11.835	11.835	(1.015)	37233	0.88851	0.8885
30 Hexachlorobutadiene	225		12.075	12.075	(1.035)	7808	0.47774	0.4777
31 4-Chloro-3-methylphenol	107		12.818	12.810	(1.099)	27298	0.94955	0.9495
32 2-Methylnaphthalene	142		13.120	13.120	(1.125)	34703	0.46559	0.4656
33 Hexachlorocyclopentadiene	237		13.584	13.584	(0.888)	2182	0.13732	0.1373

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
34 2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
35 2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
§ 36 2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
37 2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
38 2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
39 Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
40 Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
41 2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
* 42 Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
43 3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
44 Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
45 2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232 (M)
46 Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
47 4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719 (M)
48 2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
50 Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
49 Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
51 4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
52 4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
53 4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
54 N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
§ 55 2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
56 4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
57 Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
58 Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
* 59 Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
60 Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
61 Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
62 Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
63 Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
64 Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
65 Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
§ 66 Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
67 Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
68 Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
* 69 Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
70 3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
71 Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
72 bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
* 134 Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
73 Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
74 Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
75 Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
76 Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
* 77 Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
78 Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
79 Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
80 Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
90 N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
91 Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
93 Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
103 Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
105 1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
111 Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 31-DEC-2022
 Lab File ID: NT1422123068.D Calibration Time: 23:30
 Lab Smp Id: SKL0355-LCV4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

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

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m, 01-JAN-2023 00:42

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

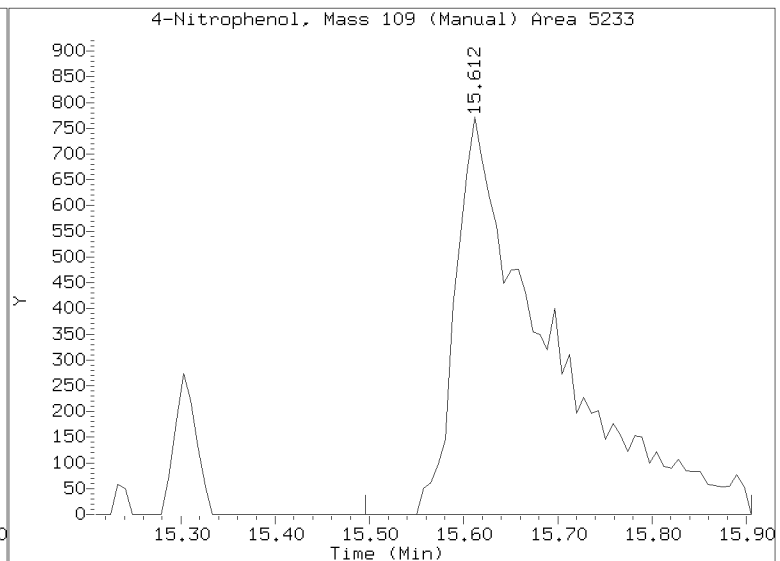
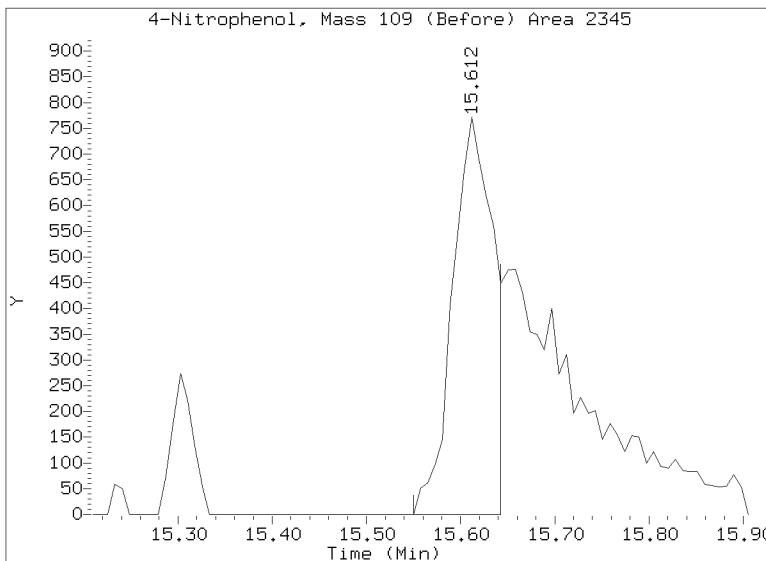
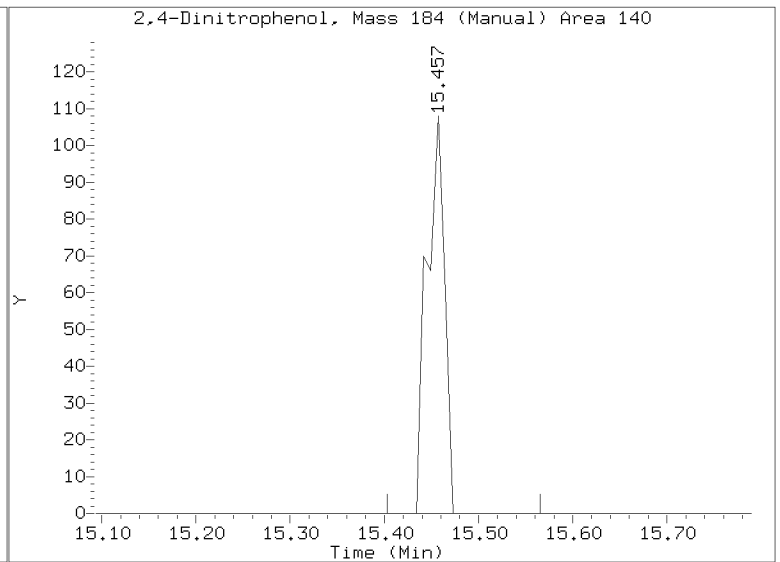
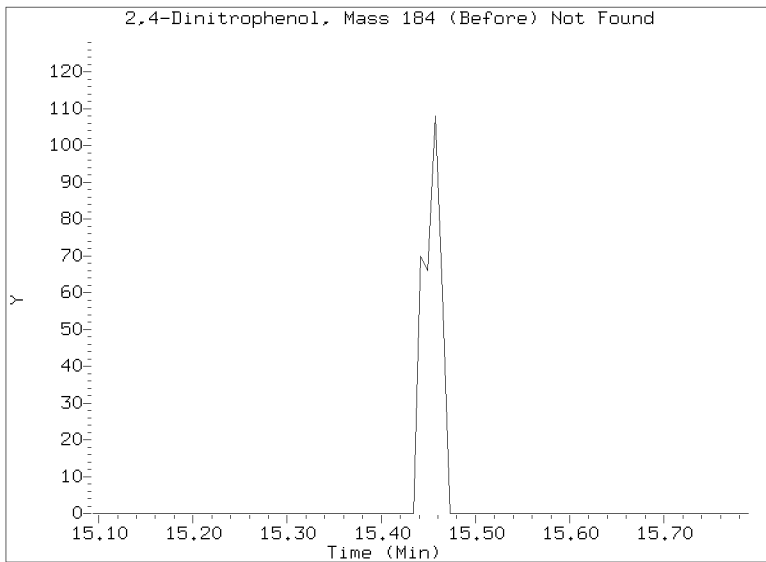
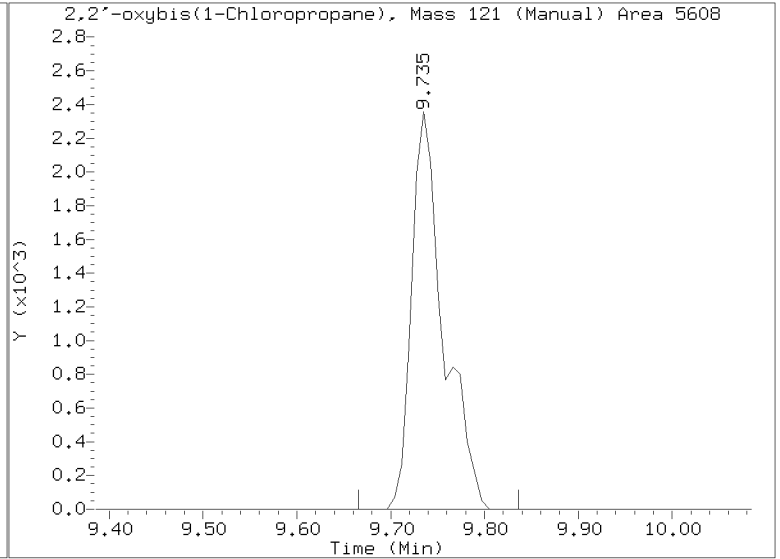
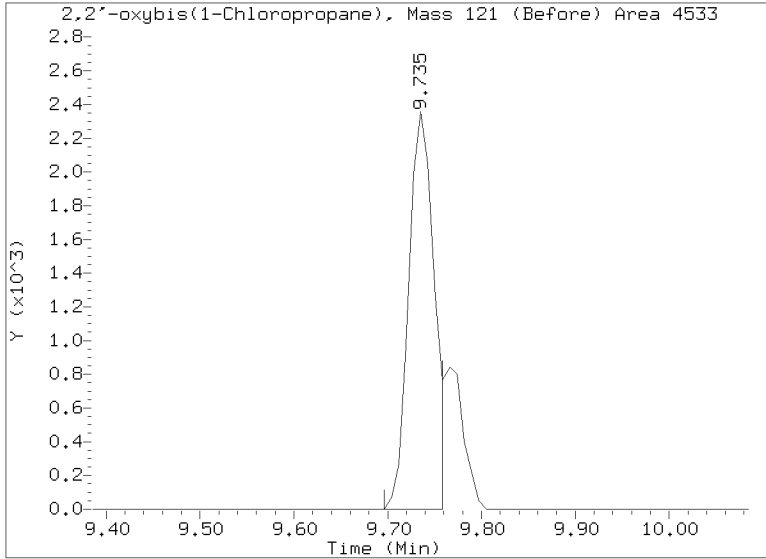
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0355

Instrument: NT14

Calibration: FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ABN 0.2	SKL0355-LCV3	NT1422123067.D	NA	01/01/23 00:06
ABN 0.5	SKL0355-LCV4	NT1422123068.D	NA	01/01/23 00:42
Blank	BKL0193-BLK1	NT1422123069.D	Solid	01/01/23 01:18
LCS	BKL0193-BS1	NT1422123070.D	Solid	01/01/23 01:53
LCS Dup	BKL0193-BSD1	NT1422123071.D	Solid	01/01/23 02:29
Reference	BKL0193-SRM1	NT1422123072.D	Solid	01/01/23 03:05
LDW22-SS773	22L0104-01	NT1422123073.D	Solid	01/01/23 03:41
LDW22-SS774	22L0104-02	NT1422123074.D	Solid	01/01/23 04:17
ZZZZZ	22L0136-01	NT1422123075.D	Solid	01/01/23 04:53
ZZZZZ	22L0136-08	NT1422123076.D	Solid	01/01/23 05:29
ZZZZZ	22L0136-09	NT1422123077.D	Solid	01/01/23 06:05
ZZZZZ	22L0136-10	NT1422123080.D	Solid	01/01/23 07:53
ZZZZZ	22L0136-11	NT1422123081.D	Solid	01/01/23 08:29
ZZZZZ	22L0136-12	NT1422123082.D	Solid	01/01/23 09:05
ABN 5	SKL0355-CCV1	NT1422123083.D	NA	01/01/23 09:41
MS Tune	SKL0355-TUN1	NT1422123001.D	NA	12/30/22 07:53
CAL 5	SKL0355-CAL5	NT1422123002.D	NA	12/30/22 08:06
CAL 20	SKL0355-CAL7	NT1422123003.D	NA	12/30/22 08:42
CAL 0.2	SKL0355-CAL1	NT1422123004.D	NA	12/30/22 09:18
CAL 10	SKL0355-CAL6	NT1422123005.D	NA	12/30/22 09:54
CAL 0.5	SKL0355-CAL2	NT1422123006.D	NA	12/30/22 10:30
CAL 2.5	SKL0355-CAL4	NT1422123007.D	NA	12/30/22 11:07
CAL 1.0	SKL0355-CAL3	NT1422123008.D	NA	12/30/22 11:43
SICV1	SKL0355-ICV1	NT1422123011.D	NA	12/30/22 13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	NA	12/30/22 14:08
ABN 5	SKL0355-ICV2	NT1422123014.D	NA	12/30/22 15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	Solid	12/31/22 06:20
ZZZZZ	22K0399-08RE1	NT1422123039.D	Solid	12/31/22 06:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	Solid	12/31/22 07:32



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0355

Instrument: NT14

Calibration: FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22K0399-22RE1	NT1422123041.D	Solid	12/31/22 08:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	Solid	12/31/22 08:44
ABN 5	SKL0355-ICV4	NT1422123049.D	NA	12/31/22 13:17
ABN 0.2	SKL0355-LCV1	NT1422123051.D	NA	12/31/22 14:29
ABN 0.5	SKL0355-LCV2	NT1422123052.D	NA	12/31/22 15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	Solid	12/31/22 19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	Solid	12/31/22 20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	Solid	12/31/22 21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	Solid	12/31/22 21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	Solid	12/31/22 22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	Solid	12/31/22 22:54
ABN 5	SKL0355-ICV5	NT1422123066.D	NA	12/31/22 23:30



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWGST9-110122	20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
 Calibration ID: FL00066 Tune File: 221222.U
 EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Time	Filename	LabID	ClientId	DF																							
1	0753	NT1422123001.D	SKL0355-TUN1		1		NO	ISTDS	FOUND																		
2	0806	NT1422123002.D	SKL0355-CAL5		1		9.18	151013		11.69	553510		15.33	305411		18.38	491708		23.42	424740		26.10	395150		24.44	684951	
3	0842	NT1422123003.D	SKL0355-CAL7		1		9.18	143300		11.70	507556		15.33	290278		18.38	423275		23.42	399899		26.11	359748		24.44	687276	
4	0918	NT1422123004.D	SKL0355-CAL1		1		9.18	156948		11.69	570074		15.33	297614		18.37	498496		23.41	404183		26.10	371728		24.44	540769	
5	0954	NT1422123005.D	SKL0355-CAL6		1		9.18	144388		11.69	520524		15.33	291597		18.38	457445		23.42	408635		26.10	373712		24.44	652062	
6	1030	NT1422123006.D	SKL0355-CAL2		1		9.18	156057		11.69	571985		15.33	301808		18.37	495600		23.41	403440		26.10	378046		24.44	538411	
7	1107	NT1422123007.D	SKL0355-CAL4		1		9.18	144333		11.69	532256		15.33	287473		18.37	465065		23.41	401380		26.10	368275		24.44	554407	
8	1143	NT1422123008.D	SKL0355-CAL3		1		9.18	148086		11.69	558364		15.33	288519		18.37	472142		23.41	394732		26.10	370479		24.44	526757	
9	1219	NT1422123009.D	SKL0356-CAL1		1		9.18	146141		11.69	533259		15.33	275387		18.37	457503		23.41	370157		26.10	345259		24.44	434329	
10	1255	NT1422123010.D			1		9.18	150179		11.69	554597		15.33	282107		18.37	470125		23.41	374625		26.10	352812		24.44	438400	
11	1331	NT1422123011.D	SKL0355-ICV1		1		9.18	145276		11.69	542519		15.33	292314		18.37	478070		23.42	412507		26.10	379639		24.44	590464	
12	1408	NT1422123012.D	SKL0355-ICB1		1		9.18	174509		11.69	641934		15.33	335436		18.37	560033		23.41	444498		26.10	423100		24.44	541261	
13	1516	NT1422123013.D		NOT USING	1		9.18	146864		11.69	550707		15.33	275006		18.37	643649		23.42	583196		26.11	599166		24.44	900001	
14	1553	NT1422123014.D	SKL0355-ICV2		1		9.18	130476		11.69	484478		15.33	261445		18.37	412822		23.41	349122		26.10	327130		24.44	522046	
15	1629	NT1422123015.D			1		9.18	132066		11.69	499724		15.33	257503		18.37	413048		23.41	335724		26.09	308207		24.44	434247	
16	1705	NT1422123016.D	BKK0733-BLK1		1		9.18	126906		11.69	483124		15.32	256877		18.37	444495		23.41	333261		26.09	320178		24.44	495841	
17	1741	NT1422123017.D	BKK0733-BS1		1		9.18	124003		11.69	465208		15.33	251001		18.37	418062		23.41	342657		26.10	324681		24.44	577170	
18	1818	NT1422123018.D	BKK0733-BSD1		1		9.18	124976		11.69	467689		15.33	258016		18.37	428907		23.41	356316		26.09	340564		24.44	643011	
19	1854	NT1422123019.D	22K0399-01		1		9.18	121953		11.69	458530		15.32	242934		18.37	396367		23.41	291013		26.10	344522		24.44	561675	
20	1930	NT1422123020.D	BKK0733-MS1		1		9.18	115884		11.69	434586		15.33	230677		18.38	374636		23.42	295274		26.11	347439		24.44	560195	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Time	Filename	LabID	ClientId	DF										
21	2006	NT1422123021.D	BKK0733-MSD1		1		9.18	115038 11.69	422786 15.33	231453 18.38	377450 23.42	296619 26.11	342779 24.44	551214
22	2042	NT1422123022.D	22K0399-07		1		9.18	118717 11.69	440463 15.33	235964 18.38	394316 23.42	287701 26.11	334549 24.44	535369
23	2119	NT1422123023.D	22K0399-08		1		9.18	119344 11.69	442541 15.33	234795 18.38	389401 23.42	283797 26.11	329236 24.44	507254
24	2155	NT1422123024.D	22K0399-31		1		9.18	120549 11.69	456717 15.33	235065 18.38	385218 23.42	290921 26.12	332471 24.44	522799
25	2231	NT1422123025.D	22K0399-43		1		9.18	115488 11.69	438973 15.33	230528 18.38	372346 23.42	316873 26.13	312137 24.45	540998
26	2307	NT1422123026.D	22K0399-44		1		9.18	114799 11.69	429093 15.33	225512 18.38	375444 23.42	344033 26.14	334179 24.45	548267
27	2343	NT1422123027.D	BKK0733-SRM1		1		9.18	116509 11.69	420160 15.33	224093 18.38	385101 23.42	308820 26.10	324504 24.44	539884

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123002.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123003.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123004.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123005.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123006.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123007.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123008.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123009.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123010.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123011.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123012.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123013.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123014.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123015.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123016.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123017.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123018.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123019.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123020.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123021.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123022.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123023.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123024.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123025.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123026.D	Data Locked	van,	04-Jan-2023	08:39
NT1422123027.D	Data Locked	van,	04-Jan-2023	08:39



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831	12/31/2022 13:17	NT1422123049.D	VTS	
SKL0355-LCV1	ABN 0.2	QC		19	K011105	K010831	12/31/2022 14:29	NT1422123051.D	VTS	
SKL0355-LCV2	ABN 0.5	QC		20	K011106	K010831	12/31/2022 15:05	NT1422123052.D	VTS	
BKL0091-BLK1	Blank	QC		21		K010831	12/31/2022 16:54	NT1422123055.D	VTS	
BKL0091-BS1	LCS	QC		22		K010831	12/31/2022 17:30	NT1422123056.D	VTS	



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0091-BSD1	LCS Dup	QC		23		K010831	12/31/2022 18:06	NT1422123057.D	VTS	
22L0029-01	SS-12-01-2022	625 SVOC 0.2ug/L	B 01	24		K010831	12/31/2022 18:42	NT1422123058.D	VTS	version
22L0065-03	304881-10	625 SVOC 0.2ug/L	B 01	25		K010831	12/31/2022 19:18	NT1422123059.D	VTS	Version
22K0021-01RE1	EWWT9-110122	20ug/kg solid or 0.2ug/L l	A 02	26		K010831	12/31/2022 19:54	NT1422123060.D	VTS	Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	20ug/kg solid or 0.2ug/L l	A 02	27		K010831	12/31/2022 20:30	NT1422123061.D	VTS	Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	20ug/kg solid or 0.2ug/L l	A 02	28		K010831	12/31/2022 21:06	NT1422123062.D	VTS	Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	20ug/kg solid or 0.2ug/L l	A 02	29		K010831	12/31/2022 21:42	NT1422123063.D	VTS	Added 12/20/2022 by VTS
22K0045-04RE1	304509-04	20ug/kg solid or 0.2ug/L l	A 02	30		K010831	12/31/2022 22:18	NT1422123064.D	VTS	Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	20ug/kg solid or 0.2ug/L l	A 02	31		K010831	12/31/2022 22:54	NT1422123065.D	VTS	Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		32	K011109	K010831	12/31/2022 23:30	NT1422123066.D	VTS	
SKL0355-LCV3	ABN 0.2	QC		33	K011105	K010831	01/01/2023 00:06	NT1422123067.D	VTS	
SKL0355-LCV4	ABN 0.5	QC		34	K011106	K010831	01/01/2023 00:42	NT1422123068.D	VTS	
BKL0193-BLK1	Blank	QC		35		K010831	01/01/2023 01:18	NT1422123069.D	VTS	
BKL0193-BS1	LCS	QC		36		K010831	01/01/2023 01:53	NT1422123070.D	VTS	
BKL0193-BSD1	LCS Dup	QC		37		K010831	01/01/2023 02:29	NT1422123071.D	VTS	
BKL0193-SRM1	Reference	QC		38		K010831	01/01/2023 03:05	NT1422123072.D	VTS	
22L0104-01	LDW22-SS773	20ug/kg solid or 0.2ug/L l	B 02	39		K010831	01/01/2023 03:41	NT1422123073.D	VTS	
22L0104-02	LDW22-SS774	20ug/kg solid or 0.2ug/L l	B 02	40		K010831	01/01/2023 04:17	NT1422123074.D	VTS	If started finish and hold extract
22L0136-01	LDW22-SS823	20ug/kg solid or 0.2ug/L l	A 02	41		K010831	01/01/2023 04:53	NT1422123075.D	VTS	
22L0136-08	LDW22-SS786	20ug/kg solid or 0.2ug/L l	A 02	42		K010831	01/01/2023 05:29	NT1422123076.D	VTS	
22L0136-09	LDW22-SS766	20ug/kg solid or 0.2ug/L l	A 02	43		K010831	01/01/2023 06:05	NT1422123077.D	VTS	
BKL0193-MS1	Matrix Spike	QC		44		K010831	01/01/2023 06:41	NT1422123078.D	VTS	



ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0193-MSD1	Matrix Spike Dup	QC		45		K010831	01/01/2023 07:17	NT1422123079.D	VTS	
22L0136-10	LDW22-SS771	20ug/kg solid or 0.2ug/L l	A 02	46		K010831	01/01/2023 07:53	NT1422123080.D	VTS	
22L0136-11	LDW22-SS771-FD	20ug/kg solid or 0.2ug/L l	A 02	47		K010831	01/01/2023 08:29	NT1422123081.D	VTS	
22L0136-12	LDW22-SS772	20ug/kg solid or 0.2ug/L l	A 02	48		K010831	01/01/2023 09:05	NT1422123082.D	VTS	
SKL0355-CCV1	ABN 5	QC		49	K011109	K010834	01/01/2023 09:41	NT1422123083.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

Time	Filename	LabID	ClientId	DF															
1	0019	NT1422123028.D	SKL0355-ICV2		1	9.18	139712	11.69	509927	15.33	279568	18.38	444668	23.42	371784	26.10	386160	24.44	654073
2	0055	NT1422123029.D	SKL0356-ICV2		1	9.18	135477	11.69	503025	15.33	259166	18.37	415796	23.41	334927	26.10	348615	24.44	562504
3	0131	NT1422123030.D	BKK0560-BLK2		1	11.69	1368	15.33	337	23.86	58	24.43	86						
4	0207	NT1422123031.D	BKK0560-BS2		1	15.33	408	24.44	248										
5	0243	NT1422123032.D	BKK0560-BSD2		1	15.32	355	24.41	132										
6	0320	NT1422123033.D	22K0212-01		1	18.37	113	24.44	52										
7	0356	NT1422123034.D	22K0299-01 2X		1	9.18	66	24.20	49										
8	0432	NT1422123035.D	22K0310-01		1	18.35	706	24.79	110										
9	0508	NT1422123036.D	BKK0560-MS1		1	24.87	52												
10	0544	NT1422123037.D	BKK0560-MSD1		1	[NO ISTDS FOUND]													
11	0620	NT1422123038.D	22K0241-02RE1		4	9.17	121396	11.67	462972	15.29	247816	18.35	397958	23.40	387627	26.10	313553	24.43	659245
12	0656	NT1422123039.D	22K0399-08RE1		2	9.16	163197	11.67	611654	15.30	332237	18.35	559036	23.39	431438	26.08	454922	24.41	747763
13	0732	NT1422123040.D	22K0399-19RE1		10	9.16	139479	11.67	496175	15.30	260663	18.35	447728	23.39	340698	26.08	358481	24.41	585560
14	0808	NT1422123041.D	22K0399-22RE1		5	9.16	139282	11.67	515202	15.29	272578	18.35	446096	23.39	357267	26.08	368491	24.41	604173
15	0844	NT1422123042.D	22K0399-29RE1		2	9.16	153712	11.67	585190	15.30	301218	18.35	479149	23.41	460634	26.13	394133	24.44	610787
16	0940	NT1422123043.D	BKK0560-BLK2		1	9.18	124723	11.68	459190	15.32	231264	18.37	399583	23.41	293112	26.10	289721	24.43	529702
17	1016	NT1422123044.D	BKK0560-BS2		1	9.18	121338	11.68	439511	15.32	229261	18.37	388225	23.41	305397	26.10	293959	24.43	564137
18	1052	NT1422123045.D			1	9.18	115895	11.68	422759	15.32	221759	18.37	374149	23.41	291057	26.09	285161	24.43	525277
19	1128	NT1422123046.D			1	9.18	117710	11.67	436281	15.32	225229	18.36	385966	23.41	283030	26.09	268953	24.43	485056
20	1204	NT1422123047.D			1	9.17	118248	11.67	439268	15.31	226618	18.36	379086	23.41	273873	26.09	271145	24.43	475249

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

Time	Filename	LabID	ClientId	DF										
21	1240	NT1422123048.D			1		9.17	109898 11.68	403485 15.32	213643 18.37	353486 23.41	273228 26.09	276304 24.43	497312

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0019	NT1422123028.D	SKL0355-ICV2	1	2,2'-oxybis(1-Chloropropane),
0055	NT1422123029.D	SKL0356-ICV2	1	NO MANUAL INTEGRATION
0131	NT1422123030.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
0207	NT1422123031.D	BKK0560-BS2	1	NO MANUAL INTEGRATION
0243	NT1422123032.D	BKK0560-BSD2	1	NO MANUAL INTEGRATION
0320	NT1422123033.D	22K0212-01	1	NO MANUAL INTEGRATION
0356	NT1422123034.D	22K0299-01 2X	1	NO MANUAL INTEGRATION
0432	NT1422123035.D	22K0310-01	1	NO MANUAL INTEGRATION
0508	NT1422123036.D	BKK0560-MS1	1	NO MANUAL INTEGRATION
0544	NT1422123037.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
0620	NT1422123038.D	22K0241-02RE1	4	2-Methylphenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
0656	NT1422123039.D	22K0399-08RE1	2	2-Methylphenol,
0732	NT1422123040.D	22K0399-19RE1	10	NO MANUAL INTEGRATION
0808	NT1422123041.D	22K0399-22RE1	5	2-Methylphenol,
0844	NT1422123042.D	22K0399-29RE1	2	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0940	NT1422123043.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
1016	NT1422123044.D	BKK0560-BS2	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
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1052	NT1422123045.D		1	NO MANUAL INTEGRATION
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1128	NT1422123046.D		1	NO MANUAL INTEGRATION
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1204	NT1422123047.D		1	NO MANUAL INTEGRATION
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1240	NT1422123048.D		1	NO MANUAL INTEGRATION
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Security Status Report

Date: 04-Jan-2023 14:50

NT1422123028.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123029.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123030.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123031.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123032.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123033.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123034.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123035.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123036.D	Data Locked	van, 04-Jan-2023 14:50
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NT1422123038.D	Data Locked	van, 04-Jan-2023 14:50
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NT1422123042.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123043.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123044.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123045.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123046.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123047.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123048.D	Data Locked	van, 04-Jan-2023 14:50

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Time	Filename	LabID	ClientId	DF											
1	1317	NT1422123049.D	SKL0355-ICV4		1		9.17	134439 11.68	492388 15.32	270679 18.37	429616 23.41	376030 26.09	336225 24.43	634628	
2	1353	NT1422123050.D	SKL0356-ICV4		1		9.17	126626 11.67	474047 15.31	242925 18.36	394559 23.41	316434 26.09	278983 24.43	504730	
3	1429	NT1422123051.D	SKL0355-LCV1		1		9.17	116397 11.67	425902 15.31	216598 18.36	347572 23.41	288877 26.09	247727 24.43	433122	
4	1505	NT1422123052.D	SKL0355-LCV2		1		9.17	120125 11.67	431181 15.31	221457 18.36	356219 23.41	294883 26.09	255506 24.43	439623	
5	1542	NT1422123053.D	BKK0560-MSD1		1		9.17	99244 11.67	363071 15.32	194217 18.36	318169 23.41	250764 26.09	239534 24.43	452805	
6	1618	NT1422123054.D	SKL0356-CCV1		1		9.17	125371 11.67	466507 15.31	239021 18.36	383047 23.40	322456 26.09	270669 24.42	505735	
7	1654	NT1422123055.D	BKL0091-BLK1		1		9.17	99940 11.67	356917 15.31	176772 18.36	298313 23.41	231661 26.09	199476 24.42	354510	
8	1730	NT1422123056.D	BKL0091-BS1		1		9.17	99350 11.67	352626 15.31	181758 18.36	289259 23.40	244140 26.09	212744 24.42	391584	
9	1806	NT1422123057.D	BKL0091-BSD1		1		9.17	97838 11.67	347207 15.31	180405 18.36	287059 23.40	238168 26.09	211088 24.43	387775	
10	1842	NT1422123058.D	22L0029-01		1		9.17	98638 11.67	383631 15.32	183285 18.37	326543 23.41	257753 26.09	243042 24.43	443851	
11	1918	NT1422123059.D	22L0065-03		1		9.17	103123 11.67	370933 15.31	191942 18.36	315771 23.40	243416 26.09	230791 24.42	429069	
12	1954	NT1422123060.D	22K0021-01RE1		1		9.17	100572 11.67	369922 15.31	198185 18.36	335740 23.42	361646 26.13	299060 24.44	512390	
13	2030	NT1422123061.D	22K0045-01RE1		1		9.17	109934 11.67	397551 15.31	204112 18.36	352470 23.41	303836 26.09	277088 24.42	502168	
14	2106	NT1422123062.D	22K0045-02RE1		1		9.17	103386 11.67	379073 15.31	195673 18.36	336828 23.40	264182 26.09	259801 24.42	460365	
15	2142	NT1422123063.D	22K0045-03RE1		1		9.16	109866 11.67	406488 15.31	210384 18.36	361943 23.40	279423 26.09	266664 24.42	493139	
16	2218	NT1422123064.D	22K0045-04RE1		1		9.16	99529 11.67	362743 15.31	191674 18.36	329098 23.40	257260 26.09	249194 24.42	448541	
17	2254	NT1422123065.D	22K0045-05RE1		1		9.16	111816 11.67	406931 15.31	217553 18.35	374767 23.40	297381 26.09	286134 24.42	520451	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1317	NT1422123049.D	SKL0355-ICV4	1	2,2'-oxybis(1-Chloropropane),
1353	NT1422123050.D	SKL0356-ICV4	1	NO MANUAL INTEGRATION
1429	NT1422123051.D	SKL0355-LCV1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid, 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, 4-Nitrophenol, 2,4,6-Tribromophenol, Pentachlo
1505	NT1422123052.D	SKL0355-LCV2	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,
1542	NT1422123053.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
1618	NT1422123054.D	SKL0356-CCV1	1	NO MANUAL INTEGRATION
1654	NT1422123055.D	BKL0091-BLK1	1	NO MANUAL INTEGRATION
1730	NT1422123056.D	BKL0091-BS1	1	NO MANUAL INTEGRATION
1806	NT1422123057.D	BKL0091-BSD1	1	NO MANUAL INTEGRATION
1842	NT1422123058.D	22L0029-01	1	Benzoic acid,
1918	NT1422123059.D	22L0065-03	1	NO MANUAL INTEGRATION
1954	NT1422123060.D	22K0021-01RE1	1	Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
2030	NT1422123061.D	22K0045-01RE1	1	Benzo(a)anthracene,
2106	NT1422123062.D	22K0045-02RE1	1	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2142	NT1422123063.D	22K0045-03RE1	1	Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene,
2218	NT1422123064.D	22K0045-04RE1	1	Phenol, Benzo(k)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2254	NT1422123065.D	22K0045-05RE1	1	Phenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,

Security Status Report

Date: 04-Jan-2023 14:52

NT1422123049.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123050.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123051.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123052.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123053.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123054.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123055.D	Data Locked	van,	04-Jan-2023	14:51
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NT1422123057.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123058.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123059.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123060.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123061.D	Data Locked	van,	04-Jan-2023	14:51
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NT1422123063.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123064.D	Data Locked	van,	04-Jan-2023	14:51
NT1422123065.D	Data Locked	van,	04-Jan-2023	14:51

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Time	Filename	LabID	ClientId	DF																
1	2330	NT1422123066.D	SKL0355-ICV5		1		9.16	138755	11.67	501723	15.31	275234	18.36	440085	23.40	384795	26.09	336665	24.42	674530
2	0006	NT1422123067.D	SKL0355-LCV3		1		9.16	109143	11.67	397029	15.31	204214	18.36	329657	23.40	269585	26.09	227797	24.42	449369
3	0042	NT1422123068.D	SKL0355-LCV4		1		9.16	113715	11.67	412900	15.30	210199	18.35	341756	23.40	291897	26.09	229756	24.42	463051
4	0118	NT1422123069.D	BKL0193-BLK1		1		9.16	92113	11.67	329342	15.30	165382	18.35	271589	23.40	203703	26.09	177895	24.42	341255
5	0153	NT1422123070.D	BKL0193-BS1		1		9.16	84612	11.67	308541	15.30	159985	18.35	260655	23.40	212958	26.08	183421	24.42	356784
6	0229	NT1422123071.D	BKL0193-BSD1		1		9.16	84823	11.67	309397	15.30	158920	18.35	257888	23.40	212537	26.08	179497	24.41	355260
7	0305	NT1422123072.D	BKL0193-SRM1		1		9.16	86260	11.67	315083	15.30	159935	18.35	269812	23.40	210765	26.08	179115	24.41	355122
8	0341	NT1422123073.D	22L0104-01		1		9.16	87784	11.67	313493	15.30	158263	18.35	272846	23.39	207110	26.08	191935	24.42	367137
9	0417	NT1422123074.D	22L0104-02		1		9.16	89149	11.67	317814	15.30	157290	18.35	268147	23.40	207625	26.09	176715	24.41	362397
10	0453	NT1422123075.D	22L0136-01		1		9.16	86977	11.67	316023	15.30	157738	18.35	264591	23.40	220146	26.09	207692	24.42	390811
11	0529	NT1422123076.D	22L0136-08		1		9.16	90666	11.67	324201	15.30	166361	18.35	280620	23.40	221328	26.09	206533	24.41	398181
12	0605	NT1422123077.D	22L0139-09		1		9.16	89268	11.67	320325	15.30	163472	18.35	273676	23.40	214156	26.08	184962	24.41	378021
13	0641	NT1422123078.D	BKL0193-MS1		1		9.16	84281	11.67	304250	15.30	157987	18.35	258132	23.40	204763	26.08	182161	24.42	376384
14	0717	NT1422123079.D	BKL0193-MSD1		1		9.16	83089	11.67	297062	15.30	153282	18.35	252454	23.40	203015	26.08	180272	24.42	365012
15	0753	NT1422123080.D	22L0136-10		1		9.16	85176	11.67	314063	15.30	159047	18.35	264157	23.40	208161	26.09	193384	24.42	370682
16	0829	NT1422123081.D	22L0136-11		1		9.16	86936	11.67	318066	15.30	160091	18.35	269454	23.40	204439	26.09	187850	24.41	373381
17	0905	NT1422123082.D	22L0136-12		1		9.16	85389	11.67	310291	15.30	157429	18.35	260367	23.40	202993	26.09	188657	24.42	372056
18	0941	NT1422123083.D	SKL0355-CCV1		1		9.16	133778	11.67	496301	15.30	271703	18.35	424221	23.40	389585	26.08	298756	24.41	687974

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2330	NT1422123066.D	SKL0355-ICV5	1	2,2'-oxybis(1-Chloropropane),
0006	NT1422123067.D	SKL0355-LCV3	1	Benzyl alcohol, Benzoic acid, 4-Nitrophenol, 4-Nitroaniline, Pentachlorophenol,
0042	NT1422123068.D	SKL0355-LCV4	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol,
0118	NT1422123069.D	BKL0193-BLK1	1	NO MANUAL INTEGRATION
0153	NT1422123070.D	BKL0193-BS1	1	NO MANUAL INTEGRATION
0229	NT1422123071.D	BKL0193-BSD1	1	NO MANUAL INTEGRATION
0305	NT1422123072.D	BKL0193-SRM1	1	Benzoic acid,
0341	NT1422123073.D	22L0104-01	1	Benzyl alcohol, Benzo(k)fluoranthene,
0417	NT1422123074.D	22L0104-02	1	NO MANUAL INTEGRATION
0453	NT1422123075.D	22L0136-01	1	Benzoic acid, Benzo(k)fluoranthene,
0529	NT1422123076.D	22L0136-08	1	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0605	NT1422123077.D	22L0139-09	1	Benzo(k)fluoranthene,
0641	NT1422123078.D	BKL0193-MS1	1	NO MANUAL INTEGRATION
0717	NT1422123079.D	BKL0193-MSD1	1	NO MANUAL INTEGRATION
0753	NT1422123080.D	22L0136-10	1	2-Methylphenol, Benzoic acid, Dibenzo(a,h)anthracene,
0829	NT1422123081.D	22L0136-11	1	Benzoic acid, Di-n-octylphthalate, Dibenzo(a,h)anthracene,
0905	NT1422123082.D	22L0136-12	1	Benzoic acid, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,

Instrument: nt14.i Date: 01-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0941	NT1422123083.D	SKL0355-CCV1	1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 04-Jan-2023 14:53

NT1422123066.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123067.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123068.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123069.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123070.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123071.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123072.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123073.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123074.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123075.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123076.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123077.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123078.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123079.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123080.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123081.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123082.D	Data Locked	van,	04-Jan-2023	14:53
NT1422123083.D	Data Locked	van,	04-Jan-2023	14:53



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355
Calibration: FL00066

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV4 (Water)		Lab File ID: NT1422123049.D			Analyzed: 12/31/22 13:17			
2-Fluorophenol	7.5000	98.5	80 - 120	6.927	6.935857	-0.0089	N/A	
Phenol-d5	7.5000	99.0	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.8	80 - 120	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.8	80 - 120	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	5.0000	102	80 - 120	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	5.0000	94.1	80 - 120	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	7.5000	92.1	80 - 120	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	5.0000	88.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV1 (Water)		Lab File ID: NT1422123051.D			Analyzed: 12/31/22 14:29			
2-Fluorophenol	0.30000	115	50 - 150	6.927	6.935857	-0.0089	N/A	
Phenol-d5	0.30000	102	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	111	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.20000	121	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.20000	107	50 - 150	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	0.20000	112	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.30000	70.6	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.20000	109	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV2 (Water)		Lab File ID: NT1422123052.D			Analyzed: 12/31/22 15:05			
2-Fluorophenol	0.75000	94.8	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	87.7	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	91.5	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.50000	94.1	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.50000	92.0	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.9	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.75000	71.4	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.50000	90.8	50 - 150	21.495	21.505	-0.0100	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355
Calibration: FL00066

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV5 (Water)		Lab File ID: NT1422123066.D			Analyzed: 12/31/22 23:30			
2-Fluorophenol	7.5000	97.9	80 - 120	6.919	6.935857	-0.0169	N/A	
Phenol-d5	7.5000	97.9	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.4	80 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.6	80 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	104	80 - 120	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	5.0000	95.4	80 - 120	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	7.5000	89.3	80 - 120	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	5.0000	86.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV3 (Water)		Lab File ID: NT1422123067.D			Analyzed: 01/01/23 00:06			
2-Fluorophenol	0.30000	119	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.30000	104	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	112	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.20000	120	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.20000	113	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.20000	111	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.30000	74.9	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.20000	111	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV4 (Water)		Lab File ID: NT1422123068.D			Analyzed: 01/01/23 00:42			
2-Fluorophenol	0.75000	97.6	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	88.1	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	93.0	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.50000	96.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.50000	96.6	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.4	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.75000	71.7	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.50000	90.3	50 - 150	21.495	21.505	-0.0100	N/A	
BKL0193-BLK1 (Solid)		Lab File ID: NT1422123069.D			Analyzed: 01/01/23 01:18			
Phenol-d5	750.00	64.6	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	67.7	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	67.0	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	78.3	30 - 120	10.262	10.28229	-0.0203	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355
Calibration: FL00066

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0193-BS1 (Solid) Lab File ID: NT1422123070.D Analyzed: 01/01/23 01:53								
Phenol-d5	750.00	81.4	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	80.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	74.0	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	87.9	30 - 120	10.255	10.28229	-0.0273	N/A	
BKL0193-BSD1 (Solid) Lab File ID: NT1422123071.D Analyzed: 01/01/23 02:29								
Phenol-d5	750.00	78.5	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	750.00	77.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	500.00	72.5	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	500.00	85.7	30 - 120	10.255	10.28229	-0.0273	N/A	
BKL0193-SRM1 (Solid) Lab File ID: NT1422123072.D Analyzed: 01/01/23 03:05								
Phenol-d5	7500.0	74.7	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	7500.0	76.5	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5000.0	69.5	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5000.0	80.3	30 - 120	10.255	10.28229	-0.0273	N/A	
22L0104-01 (Solid) Lab File ID: NT1422123073.D Analyzed: 01/01/23 03:41								
Phenol-d5	748.59	83.2	29 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	748.59	87.9	31 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	499.06	79.6	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	499.06	97.0	30 - 120	10.255	10.28229	-0.0273	N/A	
22L0104-02 (Solid) Lab File ID: NT1422123074.D Analyzed: 01/01/23 04:17								
Phenol-d5	746.46	63.1	29 - 120	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	746.46	63.6	31 - 120	8.796	8.816429	-0.0204	N/A	
1,2-Dichlorobenzene-d4	497.64	67.2	32 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	497.64	79.2	30 - 120	10.254	10.28229	-0.0283	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	<u>Analytical Resources, LLC</u>	SDG/WO:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0355</u>	Instrument:	<u>NT14</u>
Calibration:	<u>FL00066</u>	Calibration Date:	<u>12/30/2022</u>

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-CCV1 (Water)		Lab File ID: NT1422123083.D			Analyzed: 01/01/23 09:41			
2-Fluorophenol	7.5000	98.9	50 - 150	6.911	6.935857	-0.0249	N/A	
Phenol-d5	7.5000	99.5	50 - 150	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	7.5000	99.1	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	94.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	105	50 - 150	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	5.0000	93.3	50 - 150	13.894	13.91786	-0.0239	N/A	
2,4,6-Tribromophenol	7.5000	89.9	50 - 150	16.947	16.96783	-0.0208	N/A	
p-Terphenyl-d14	5.0000	85.6	50 - 150	21.487	21.505	-0.0180	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355

SDG: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0355-ICV1)		(Water)	Lab File ID: NT1422123011.D			Analyzed: 12/30/22 13:31			
1,4-Dichlorobenzene-d4	145276	9.184	151013	9.183	96	50 - 200	0.001	+/-0.50	
Naphthalene-d8	542519	11.689	553510	11.688	98	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	292314	15.325	305411	15.325	96	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	478070	18.369	491708	18.376	97	50 - 200	-0.007	+/-0.50	
Chrysene-d12	412507	23.415	424740	23.415	97	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	590464	24.437	684951	24.437	86	50 - 200	0.000	+/-0.50	
Perylene-d12	379639	26.102	395150	26.101	96	50 - 200	0.001	+/-0.50	
Initial Cal Blank (SKL0355-ICB1)		(Water)	Lab File ID: NT1422123012.D			Analyzed: 12/30/22 14:08			
1,4-Dichlorobenzene-d4	174509	9.183	151013	9.183	116	50 - 200	0.000	+/-0.50	
Naphthalene-d8	641934	11.688	553510	11.688	116	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	335436	15.325	305411	15.325	110	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	560033	18.369	491708	18.376	114	50 - 200	-0.007	+/-0.50	
Chrysene-d12	444498	23.407	424740	23.415	105	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	541261	24.436	684951	24.437	79	50 - 200	-0.001	+/-0.50	
Perylene-d12	423100	26.101	395150	26.101	107	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0355-ICV2)		(Water)	Lab File ID: NT1422123014.D			Analyzed: 12/30/22 15:53			
1,4-Dichlorobenzene-d4	130476	9.184	151013	9.183	86	50 - 200	0.001	+/-0.50	
Naphthalene-d8	484478	11.689	553510	11.688	88	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	261445	15.325	305411	15.325	86	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	412822	18.369	491708	18.376	84	50 - 200	-0.007	+/-0.50	
Chrysene-d12	349122	23.407	424740	23.415	82	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	522046	24.437	684951	24.437	76	50 - 200	0.000	+/-0.50	
Perylene-d12	327130	26.102	395150	26.101	83	50 - 200	0.001	+/-0.50	
Initial Cal Check (SKL0355-ICV4)		(Water)	Lab File ID: NT1422123049.D			Analyzed: 12/31/22 13:17			
1,4-Dichlorobenzene-d4	134439	9.168	151013	9.183	89	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	492388	11.681	553510	11.688	89	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	270679	15.318	305411	15.325	89	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	429616	18.369	491708	18.376	87	50 - 200	-0.007	+/-0.50	
Chrysene-d12	376030	23.407	424740	23.415	89	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	634628	24.429	684951	24.437	93	50 - 200	-0.008	+/-0.50	
Perylene-d12	336225	26.094	395150	26.101	85	50 - 200	-0.007	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SKL0355

SDG: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV1)		(Water)	Lab File ID: NT1422123051.D			Analyzed: 12/31/22 14:29			
1,4-Dichlorobenzene-d4	116397	9.168	151013	9.183	77	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	425902	11.673	553510	11.688	77	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	216598	15.31	305411	15.325	71	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	347572	18.361	491708	18.376	71	50 - 200	-0.015	+/-0.50	
Chrysene-d12	288877	23.407	424740	23.415	68	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	433122	24.429	684951	24.437	63	50 - 200	-0.008	+/-0.50	
Perylene-d12	247727	26.094	395150	26.101	63	50 - 200	-0.007	+/-0.50	
Low Cal Check (SKL0355-LCV2)		(Water)	Lab File ID: NT1422123052.D			Analyzed: 12/31/22 15:05			
1,4-Dichlorobenzene-d4	120125	9.168	151013	9.183	80	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	431181	11.673	553510	11.688	78	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	221457	15.31	305411	15.325	73	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	356219	18.361	491708	18.376	72	50 - 200	-0.015	+/-0.50	
Chrysene-d12	294883	23.407	424740	23.415	69	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	439623	24.429	684951	24.437	64	50 - 200	-0.008	+/-0.50	
Perylene-d12	255506	26.094	395150	26.101	65	50 - 200	-0.007	+/-0.50	
Initial Cal Check (SKL0355-ICV5)		(Water)	Lab File ID: NT1422123066.D			Analyzed: 12/31/22 23:30			
1,4-Dichlorobenzene-d4	138755	9.16	151013	9.183	92	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	501723	11.673	553510	11.688	91	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	275234	15.31	305411	15.325	90	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	440085	18.361	491708	18.376	90	50 - 200	-0.015	+/-0.50	
Chrysene-d12	384795	23.399	424740	23.415	91	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	674530	24.421	684951	24.437	98	50 - 200	-0.016	+/-0.50	
Perylene-d12	336665	26.086	395150	26.101	85	50 - 200	-0.015	+/-0.50	
Low Cal Check (SKL0355-LCV3)		(Water)	Lab File ID: NT1422123067.D			Analyzed: 01/01/23 00:06			
1,4-Dichlorobenzene-d4	109143	9.16	151013	9.183	72	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	397029	11.666	553510	11.688	72	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	204214	15.31	305411	15.325	67	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	329657	18.361	491708	18.376	67	50 - 200	-0.015	+/-0.50	
Chrysene-d12	269585	23.399	424740	23.415	63	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	449369	24.421	684951	24.437	66	50 - 200	-0.016	+/-0.50	
Perylene-d12	227797	26.086	395150	26.101	58	50 - 200	-0.015	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SKL0355

SDG: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV4)		(Water)	Lab File ID: NT1422123068.D			Analyzed: 01/01/23 00:42			
1,4-Dichlorobenzene-d4	113715	9.16	151013	9.183	75	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	412900	11.666	553510	11.688	75	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	210199	15.302	305411	15.325	69	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	341756	18.354	491708	18.376	70	50 - 200	-0.022	+/-0.50	
Chrysene-d12	291897	23.399	424740	23.415	69	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	463051	24.421	684951	24.437	68	50 - 200	-0.016	+/-0.50	
Perylene-d12	229756	26.086	395150	26.101	58	50 - 200	-0.015	+/-0.50	
Blank (BKL0193-BLK1)		(Solid)	Lab File ID: NT1422123069.D			Analyzed: 01/01/23 01:18			
1,4-Dichlorobenzene-d4	92113	9.16	151013	9.183	61	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	329342	11.666	553510	11.688	60	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	165382	15.302	305411	15.325	54	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	271589	18.353	491708	18.376	55	50 - 200	-0.023	+/-0.50	
Chrysene-d12	203703	23.399	424740	23.415	48	50 - 200	-0.016	+/-0.50	*
Di-n-Octylphthalate-d4	341255	24.421	684951	24.437	50	50 - 200	-0.016	+/-0.50	*
Perylene-d12	177895	26.086	395150	26.101	45	50 - 200	-0.015	+/-0.50	*
LCS (BKL0193-BS1)		(Solid)	Lab File ID: NT1422123070.D			Analyzed: 01/01/23 01:53			
1,4-Dichlorobenzene-d4	84612	9.16	151013	9.183	56	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	308541	11.666	553510	11.688	56	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	159985	15.302	305411	15.325	52	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	260655	18.353	491708	18.376	53	50 - 200	-0.023	+/-0.50	
Chrysene-d12	212958	23.399	424740	23.415	50	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	356784	24.421	684951	24.437	52	50 - 200	-0.016	+/-0.50	
Perylene-d12	183421	26.078	395150	26.101	46	50 - 200	-0.023	+/-0.50	*
LCS Dup (BKL0193-BSD1)		(Solid)	Lab File ID: NT1422123071.D			Analyzed: 01/01/23 02:29			
1,4-Dichlorobenzene-d4	84823	9.16	151013	9.183	56	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	309397	11.666	553510	11.688	56	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	158920	15.302	305411	15.325	52	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	257888	18.353	491708	18.376	52	50 - 200	-0.023	+/-0.50	
Chrysene-d12	212537	23.399	424740	23.415	50	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	355260	24.414	684951	24.437	52	50 - 200	-0.023	+/-0.50	
Perylene-d12	179497	26.078	395150	26.101	45	50 - 200	-0.023	+/-0.50	*



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SKL0355

SDG: 22L0104
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Reference (BKL0193-SRM1)		(Solid)	Lab File ID: NT1422123072.D			Analyzed: 01/01/23 03:05			
1,4-Dichlorobenzene-d4	86260	9.16	151013	9.183	57	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	315083	11.666	553510	11.688	57	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	159935	15.302	305411	15.325	52	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	269812	18.354	491708	18.376	55	50 - 200	-0.022	+/-0.50	
Chrysene-d12	210765	23.4	424740	23.415	50	50 - 200	-0.015	+/-0.50	*
Di-n-Octylphthalate-d4	355122	24.414	684951	24.437	52	50 - 200	-0.023	+/-0.50	
Perylene-d12	179115	26.078	395150	26.101	45	50 - 200	-0.023	+/-0.50	*
LDW22-SS773 (22L0104-01)		(Solid)	Lab File ID: NT1422123073.D			Analyzed: 01/01/23 03:41			
1,4-Dichlorobenzene-d4	87784	9.16	138755	9.16	63	50 - 200	0.000	+/-0.50	
Naphthalene-d8	313493	11.666	501723	11.673	62	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	158263	15.302	275234	15.31	58	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	272846	18.353	440085	18.361	62	50 - 200	-0.008	+/-0.50	
Chrysene-d12	207110	23.392	384795	23.399	54	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	367137	24.421	674530	24.421	54	50 - 200	0.000	+/-0.50	
Perylene-d12	191935	26.078	336665	26.086	57	50 - 200	-0.008	+/-0.50	
LDW22-SS774 (22L0104-02)		(Solid)	Lab File ID: NT1422123074.D			Analyzed: 01/01/23 04:17			
1,4-Dichlorobenzene-d4	89149	9.16	138755	9.16	64	50 - 200	0.000	+/-0.50	
Naphthalene-d8	317814	11.665	501723	11.673	63	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	157290	15.302	275234	15.31	57	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	268147	18.353	440085	18.361	61	50 - 200	-0.008	+/-0.50	
Chrysene-d12	207625	23.399	384795	23.399	54	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	362397	24.413	674530	24.421	54	50 - 200	-0.008	+/-0.50	
Perylene-d12	176715	26.086	336665	26.086	52	50 - 200	0.000	+/-0.50	
Calibration Check (SKL0355-CCV1)		(Water)	Lab File ID: NT1422123083.D			Analyzed: 01/01/23 09:41			
1,4-Dichlorobenzene-d4	133778	9.16	151013	9.183	89	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	496301	11.666	553510	11.688	90	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	271703	15.302	305411	15.325	89	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	424221	18.353	491708	18.376	86	50 - 200	-0.023	+/-0.50	
Chrysene-d12	389585	23.399	424740	23.415	92	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	687974	24.414	684951	24.437	100	50 - 200	-0.023	+/-0.50	
Perylene-d12	298756	26.078	395150	26.101	76	50 - 200	-0.023	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS773 22L0104-01	12/02/22 07:10	12/05/22 17:00	12/09/22 14:39	7	365	01/01/23 03:41	23	40	
LDW22-SS774 22L0104-02	12/02/22 07:20	12/05/22 17:00	12/09/22 14:39	7	365	01/01/23 04:17	23	40	

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**

EPA 8270E

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Instrument: NT14

Analyte	MDL	RL	Units
4-Methylphenol	7.4	20.0	ug/kg



Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941

SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: 644 5021

Purity: 90.29%

Analyst: AB



Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945

SVOC Benzoic Acid
Expires 12/31/2029

Prepared By Jianqing Zhou 12/31/2012

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Benzoic Acid

Manufacturer: ACROS Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: AB



Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948

SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By

Date



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: RB



Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL



B002054

SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:



Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 62-53

Purity: 99%

Analyst: AB

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

J005199

SVOA-ABN BASE STOCK-200-800ug/ml
 Expires 5/31/2023
 Prepared By Jiangqing Zhou 5/18/2021

Analyte	Assigned Value	Units	Raw Material Purity, %	Raw Material Lot
3,3'-DICHLOROBENZIDINE CAS# 91-94-1	802	µg/mL	99.9	LC27068
2,4-DINITROTOLUENE CAS# 121-14-2	802	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	801	µg/mL	99.9	LB79891
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	802	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	801	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	201	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	803	µg/mL	100.0	10126MG
4-CHLOROANILINE CAS# 106-47-8	803	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	802	µg/mL	99.9	LC05068
3-NITROANILINE CAS# 99-09-2	802	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	802	µg/mL	99.9	LC11400
PYRIDINE (LOW WATER) CAS# 110-86-1	802	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.



Health and safety information:

All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date:

12-May-2021



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9813.01	12-May-2021	Original Release Date

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)

J005200
 SVOA-ABN ACID STOCK-200-800ug/ml
 Solvent / Lot: DCM
 Prep: 5/18/2021 by JZ
 Exp: 5/31/2023
 Location:



Analyte	Assigned Value	Units	Raw Material Purity, %	Raw Material Lot
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user's location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.



Certificate of Analysis

J008074

 SVOA PAH STD 2000ug/ml
 Expires 6/30/2023
 Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Issue Date: 11-Jun-2020

Lot Number: 0006540449

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

 ISO 17034 Cert No.
 AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

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www.agilent.com/quality/

 ISO 17025 Cert
 No. AT-1937

Certificate of Analysis

Product Number: US-106N-1

Lot Number: 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:



Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

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www.agilent.com/quality/



ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL16062

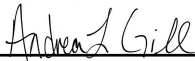
Description: Benzidines Standard

Certification Date: November 19, 2020

Storage: 4 °C

Expiration Date: November 30, 2030

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride



Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310

Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	Units	Certified ^{1,4} Value
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380



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Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	Units	Suggested Acceptance Windows	Standard Deviation
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307



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Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods. This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing. The soil has been sterilized to minimize degradation of the sample. The sample has been sized to 100 mesh. Required storage condition is 4°C. The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4°C. It has been determined to be stable for the duration of the expiration date. After sub-sampling replace cap securely and store remaining sample at 4°C. The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.



Certificate of Analysis

BNAs - Sandy Loam 1

*Certified
Reference
Material*

Description

Product ID CRM143-50G
Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.



Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom, K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence Interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

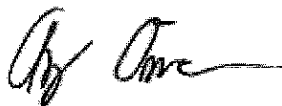
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager



Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021



Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246

Lot Number: CL16693

Description: Benzoic Acid

Certification Date: May 6, 2021

Storage: 4 °C

Expiration Date: April 30, 2031

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 4.383%

K3238



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 25 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



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Company
Certified Reference Materials

Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443

Lot Number: CL17696

Description: Aniline

Certification Date: December 14, 2021

Storage: 4 °C

Expiration Date: December 31, 2029

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.760%

K 3239



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Chemical Testing Laboratory
Certificate No. 2427.03

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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com

Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101291

Lot Number: CL11000

Description: GC/MS Tuning Mix

Certification Date: May 9, 2014

Storage: 4 °C

Expiration Date: December 31, 2023

Provided As: 1 mL in 2 mL Ampoule in Methylene chloride

Revision Date: August 5, 2015

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891

GC/MS Tune solution-1000ug/ml

Solvent / Lot: CL11000

Prep: 4/22/2022 by VS

Exp: 12/31/2023

Location:



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

IL1110612_us



Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1

Lot Issue Date: 02-Jul-2021

Lot Number: 0006620643

Expiration Date: 31-Jul-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544

toxic sub mix#2

Solvent / Lot: methylene chloride

Prep: 5/11/2022 by JZ

Exp: 7/31/2023

Location:

JZ 05/11/22



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No.: 31493 Lot No.: A0181243
Description: CLP 04.1 BNA Surrogate Mix
Container Size: 2 mL Pkg Amt: > 1 mL
Expiration Date: October 31, 2025 Storage: 10°C or colder
Handling: Sonicate prior to use. Ship: Ambient

Handwritten signature and date: 05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Table with 7 columns: Elution Order, Compound, CAS #, Purity, Weight, Concentration, and Method. Contains 7 rows of data for various compounds like 2-Fluorophenol, Phenol-d6, 2-Chlorophenol-d4, 1,2-Dichlorobenzene-d4, Nitrobenzene-d5, 2-Fluorobiphenyl, and 2,4,6-Tribromophenol.

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246

Lot Number: CL17953

Description: Benzoic Acid

Certification Date: January 31, 2022

Storage: 4 °C

Expiration Date: January 31, 2032

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603

Benzoic Acid @2000ug/ml

Solvent / Lot: N/A

Prep: 5/13/2022 by JZ

Exp: 1/31/2032

Location: GC

5/13/22



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
Certificate No. 2427.03

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244

Lot Number: CL17662

Description: Benzidines Standard

Certification Date: December 2, 2021

Storage: 4 °C

Expiration Date: November 30, 2031

Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604

Benzidines std @2000ug/ml
Solvent / Lot: Mecl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

JZ 5/13/22



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

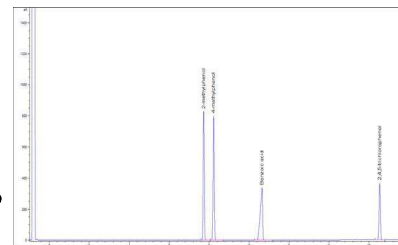


Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

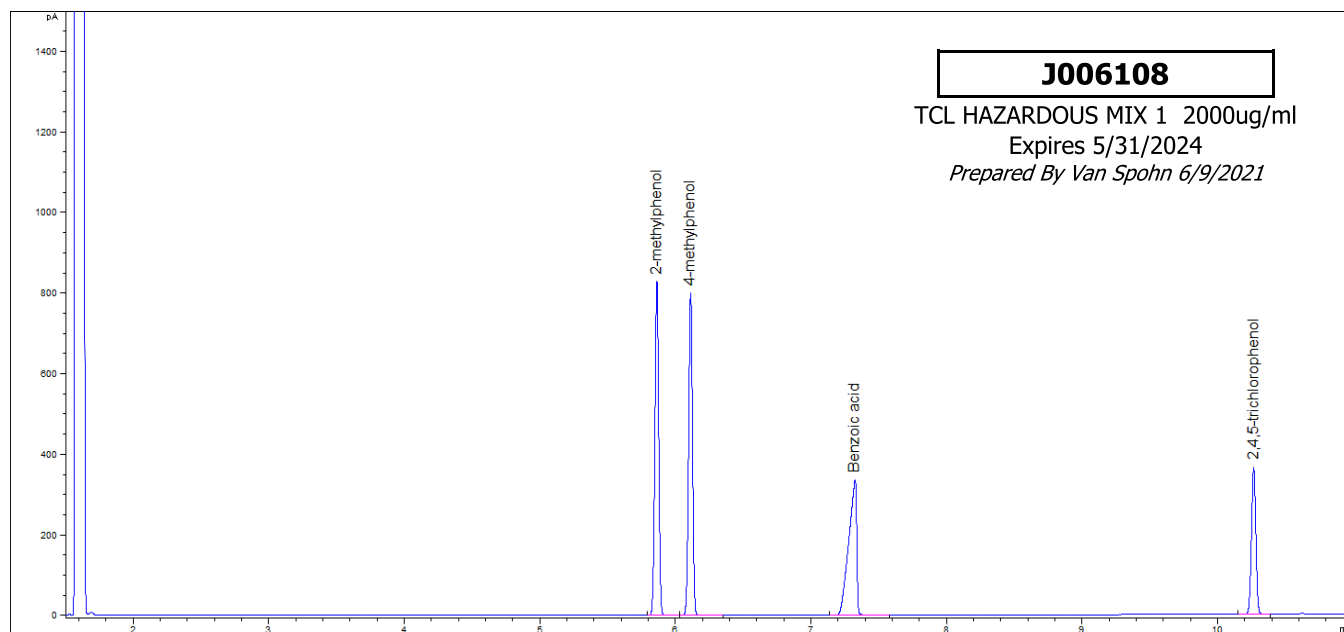
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

Analyte	Certified Value	Units	Raw Material Purity, %	Elution order	Raw Material Lot
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:

Analytical Method Parameters:
 Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
 Carrier Gas: H₂, Flow: 4.5 mL/min
 Inlet Temperature: 170 °C, Injection Volume: 1 µL
 Injection Mode: Split, Split Ratio: 20:1



Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021



Handwritten signature of Andy Ommen in black ink.

Andy Ommen - QC Manager

Handwritten signature of Mark Pooler in black ink.

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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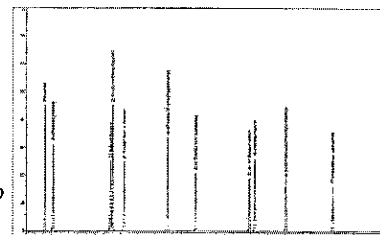
The life science business of Merck KGaA, Darmstadt, Germany
operates as MilliporeSigma in the US and Canada.



Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 (Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)



Certified Values:

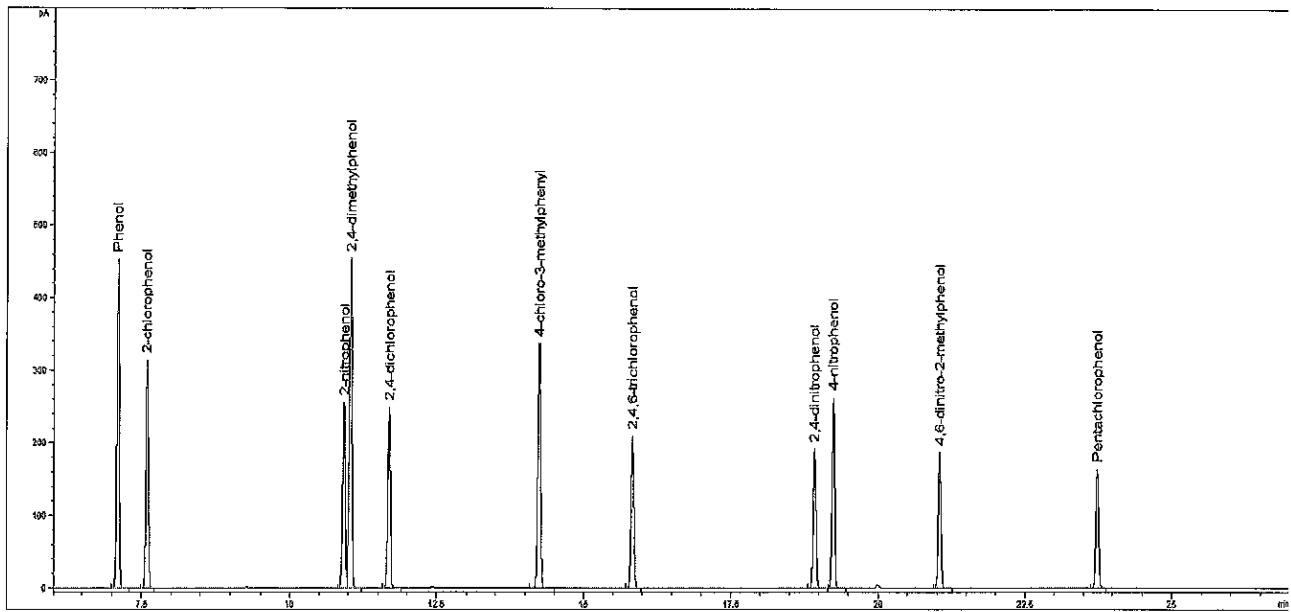
Analyte	Certified Value	Units	Raw Material Purity, %	Raw Material Lot
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597

TCL Phenols Mix 2000ug/ml
 Solvent / Lot: LRAD0139
 Prep: 12/30/2021 by VS
 Exp: 7/31/2024
 Location:





METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m x 0.53 mm I.D., 1.5 µm film thickness

Carrier Gas: H₂ Flow Rate: 4.5 mL/min

Inlet Temperature: 200 °C Injection Volume: 1.0 µL

Injection Mode: 25:1

Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)

Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorophenol
6	14.242	4-chloro-3-methylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021



Andy Ommen

Mark Pooler

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability:

This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty:

Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment:

Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment:

Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.



Certificate of Analysis

Produced by Phenova

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

K007995

SVOA-8270 LCS MIX 1000ug/ml

Solvent / Lot: N/A

Prep: 8/29/2022 by JZ

Exp: 8/31/2023

Location: FREEZER 44



Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

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Catalog No.: AL0-101444

Lot Number: CL18355

Description: 8270 Calibration Standard

Certification Date: July 25, 2022

Storage: -18 °C

Expiration Date: August 31, 2023

Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444 **Lot Number:** CL18355
Description: 8270 Calibration Standard **Certification Date:** July 25, 2022
Storage: -18 °C **Expiration Date:** August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl₂/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroisopropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com

Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = \sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Dual Column

LDW22-SS773

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: 22L0104-01 B

File ID: 12172211ECD7.D

Sampled: 12/02/22 07:10

Prepared: 12/08/22 14:38

Analyzed: 12/17/22 12:49

% Solids: 47.96

Preparation: EPA 3546 (Microwave)

Initial/Final: 26.07 g Wet / 2.5 mL

Batch: BKL0190

Sequence: SKL0280

Calibration: FL00010

Instrument: ECD7

Column 1: ZB5

Column 2: ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	42.0	1.6	4.0	
11096-82-5	Aroclor 1260	1	1	128	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
<i>Decachlorobiphenyl</i>	1	7.9980	8.77	110	40 - 126	
<i>Tetrachlorometaxylene</i>	1	7.9980	6.97	87.1	44 - 120	
<i>Decachlorobiphenyl</i>	2	7.9980	7.30	91.2	40 - 126	
<i>Tetrachlorometaxylene</i>	2	7.9980	6.56	82.0	44 - 120	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172211ECD7.D
Data file 2: /221217.b/221217.b/12172211ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0104-01
Client ID:
Injection Date: 17-DEC-2022 12:49
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col		ZB35 Col			ZB5	ZB35	RPD	Compound/Flag	
RT	Shift	Response	RT	Shift	Response	on col			on col
5.829	-0.007	234354	5.706	-0.005	131371	34.9	32.8	6.0	Tetrachloro-m-xylene
13.898	-0.010	227457	14.127	-0.006	195873	43.9	36.5	18.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	474528	6.0
Hexabromobiphenyl	798898	565695	-29.2

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292066	17.3
Hexabromobiphenyl	362541	378061	4.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	---			0.0	1	---			0.0	
Aroclor-1016	2	---			0.0	2	---			0.0	
Aroclor-1016	3	---			0.0	3	---			0.0	
Aroclor-1016	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1221	1	---			0.0	1	---			0.0	
Aroclor-1221	2	---			0.0	2	---			0.0	
Aroclor-1221	3	---			0.0	3	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1232	1	---			0.0	1	---			0.0	
Aroclor-1232	2	---			0.0	2	---			0.0	
Aroclor-1232	3	---			0.0	3	---			0.0	
Aroclor-1232	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1242	1	---			0.0	1	---			0.0	
Aroclor-1242	2	---			0.0	2	---			0.0	
Aroclor-1242	3	---			0.0	3	---			0.0	
Aroclor-1242	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1248	1	8.414	-0.013	4322	21.2	1	8.318	-0.006	5239	43.9	
Aroclor-1248	2	8.591	-0.014	14772	56.7	2	8.721	-0.010	2826	22.5	
Aroclor-1248	3	9.004	-0.018	33338	71.1	3	9.154	-0.021	6082	39.8	
Aroclor-1248	4	9.305	-0.006	51551	224.5	4	9.548	-0.050	16141	90.1	
Total CollAve (4 peaks):				93.4	Total Col2Ave (4 peaks):				49.1	RPD = 62*	
Corrected Ave (3 peaks):				49.7	Corrected Ave (3 peaks):				35.4	RPD = 33	
Aroclor-1254	1	9.305	-0.016	51551	123.4	1	9.454	-0.010	30569	162.3	
Aroclor-1254	2	9.379	-0.023	14755	90.8	2	9.972	-0.009	16288	107.6	
Aroclor-1254	3	9.679	-0.015	49478	187.5	3	10.122	-0.012	80874	248.5	
Aroclor-1254	4	9.805	-0.026	95333	185.3	4	10.375	-0.007	108617	322.3	
Aroclor-1254	5	10.126	-0.063	167010	479.7	5	10.569	-0.010	134085	824.9	
Total CollAve (5 peaks):				712.1	Total Col2Ave (5 peaks):				553.1	RPD = 44*	
Corrected Ave (4 peaks):				146.8	Corrected Ave (4 peaks):				210.2	RPD = 36	
Aroclor-1260	1	11.048	-0.014	132523	643.6	1	11.658	-0.009	106286	532.6	
Aroclor-1260	2	11.364	-0.013	131556	617.7	2	11.920	-0.010	237987	475.2	
Aroclor-1260	3	11.733	-0.019	320156	572.1	3	12.412	-0.037	229023	1717.5	
Aroclor-1260	4	12.134	-0.024	194154	681.3	4	12.503	-0.011	163754	490.6	
Aroclor-1260	5	12.248	-0.013	79903	684.9	NS	---			----	
Total CollAve (5 peaks):				639.9	Total Col2Ave (4 peaks):				804.0	RPD = 23	
Corrected Ave (4 peaks):				628.7	Corrected Ave (3 peaks):				499.5	RPD = 23	
Aroclor-1262	1	---			0.0	1	---			0.0	
Aroclor-1262	2	---			0.0	2	---			0.0	
Aroclor-1262	3	---			0.0	3	---			0.0	
Aroclor-1262	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						
Aroclor-1268	1	---			0.0	1	---			0.0	
Aroclor-1268	2	---			0.0	2	---			0.0	
Aroclor-1268	3	---			0.0	3	---			0.0	
Aroclor-1268	4	---			0.0	4	---			0.0	
CollAve: <3 Quant Peaks					Col2Ave: <3 Quant Peaks						

Total PCB Area Col1 (5.936 - 13.808) = 4215854 Col1 Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2372088 Col2 Total PCB = 1.1 ppm*

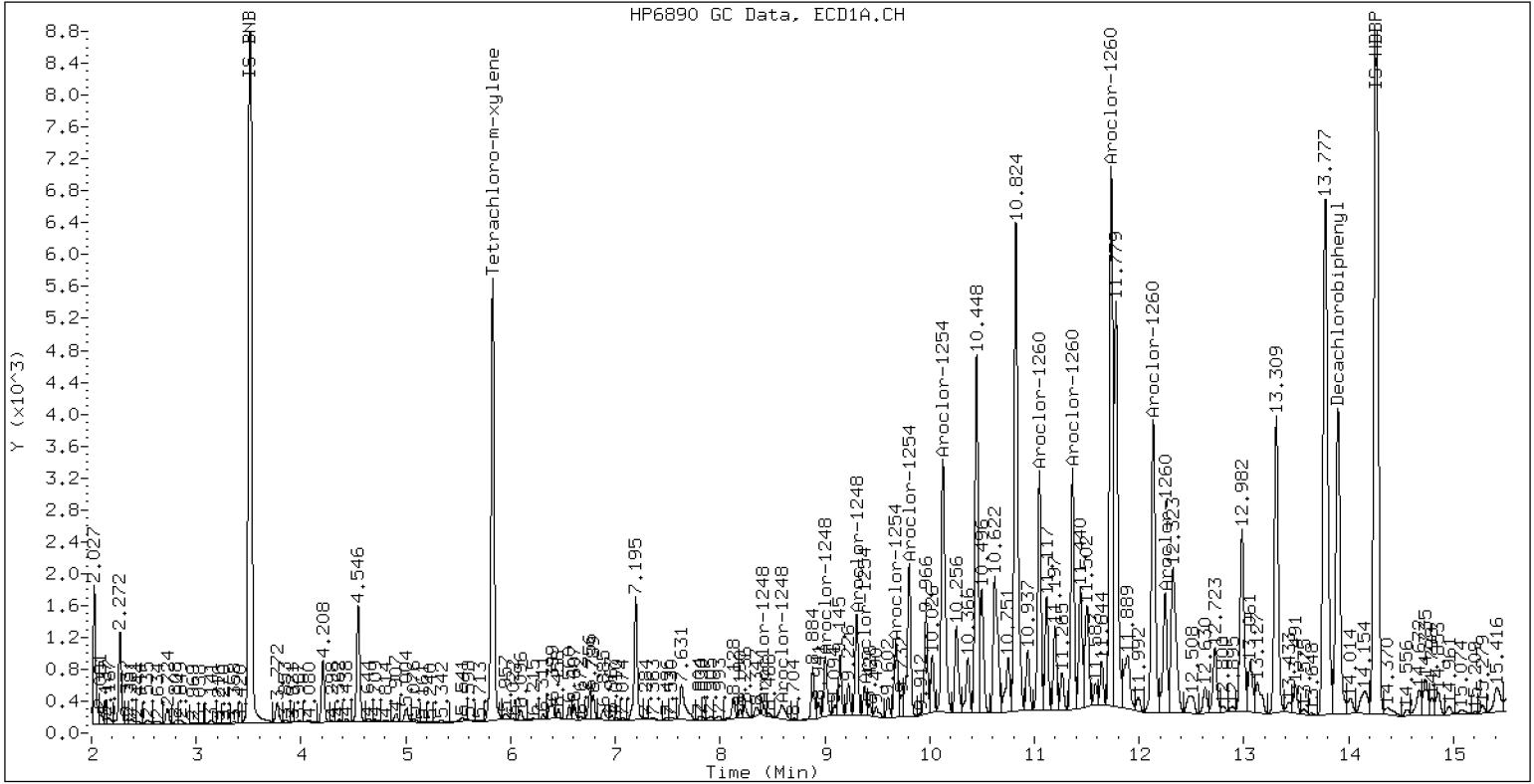
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 22L0104-01

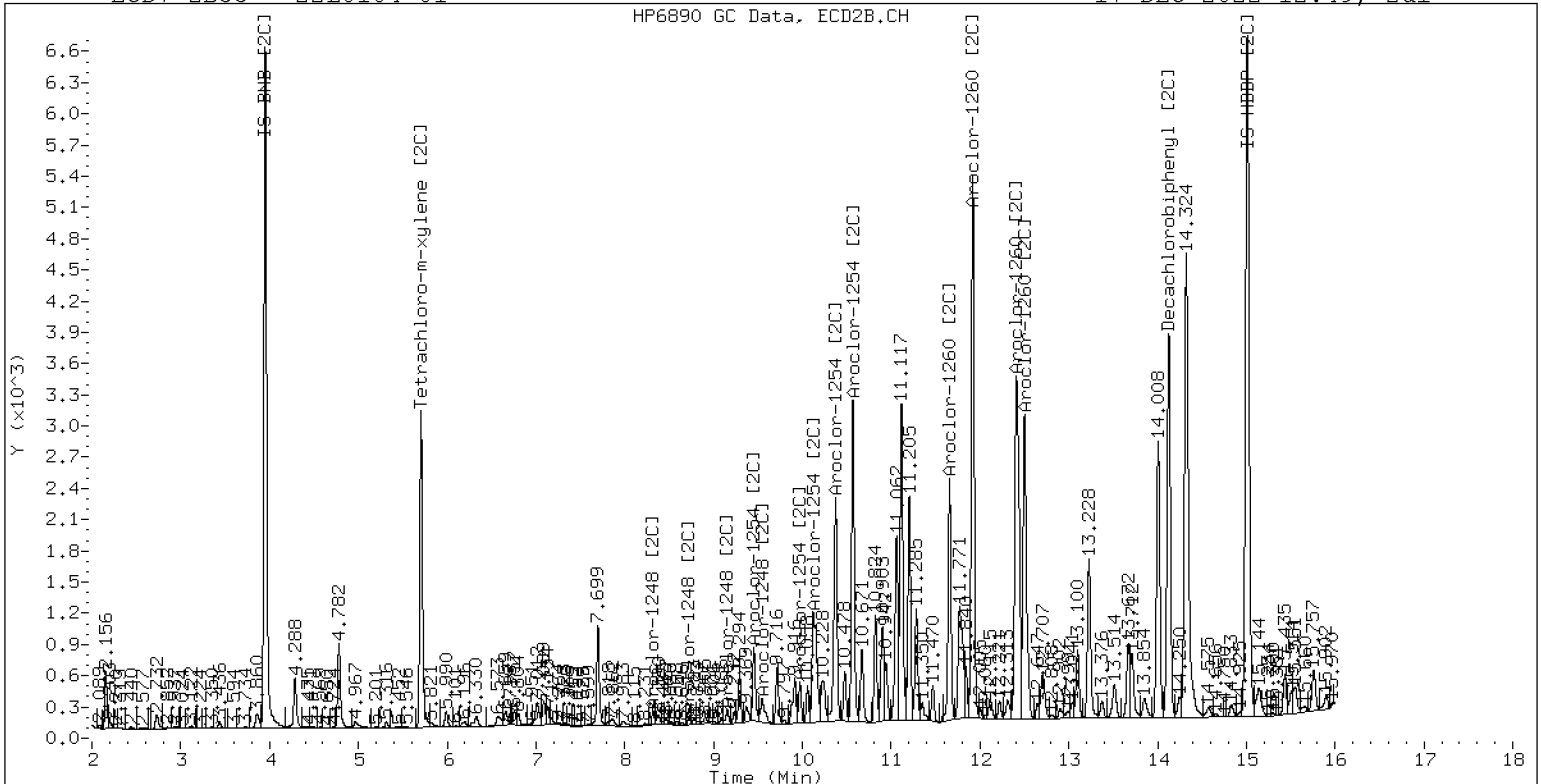
17-DEC-2022 12:49, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0104-01

17-DEC-2022 12:49, 2ul



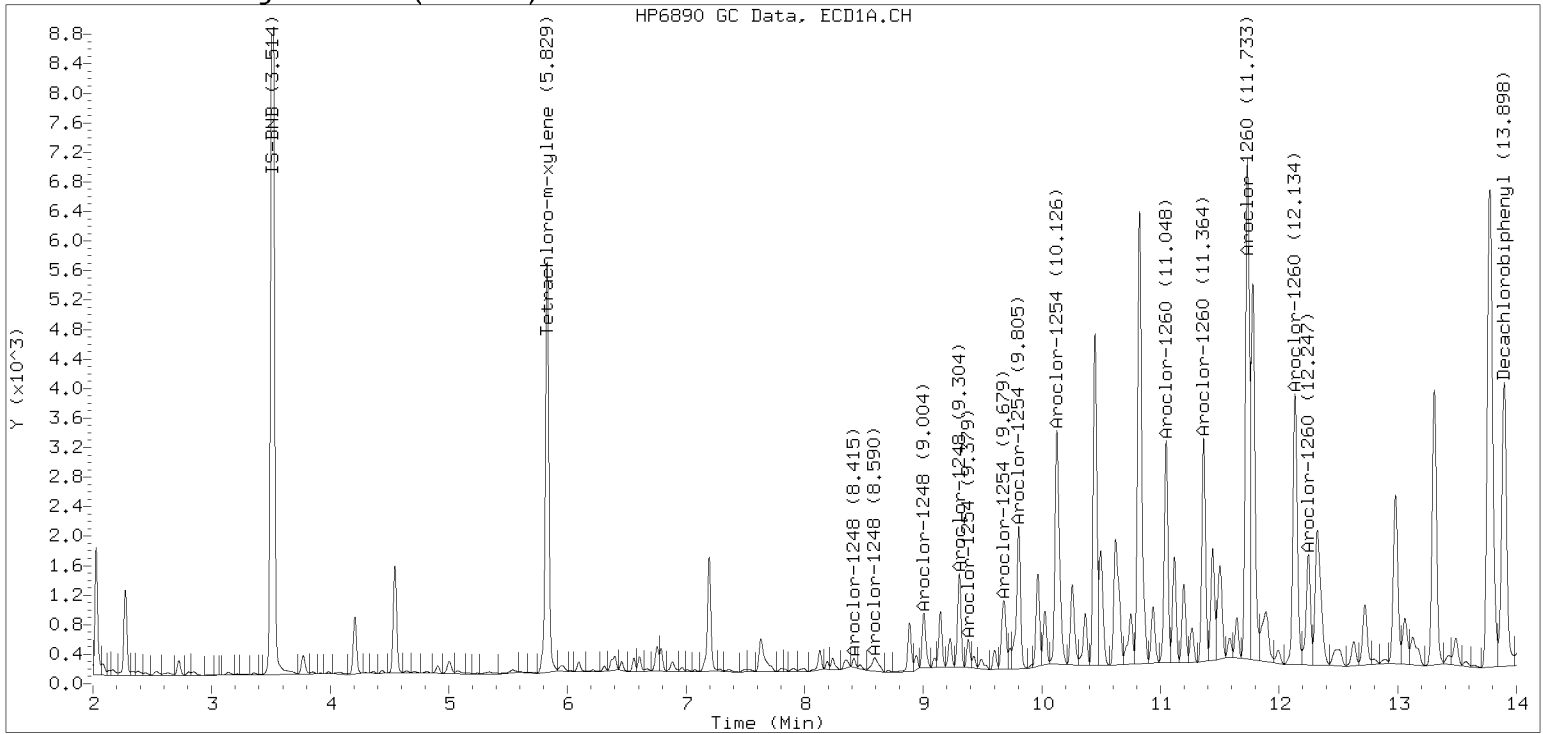
ZB-35 Manual Integration: YES

Manual Peak Adjustment, ZB-5

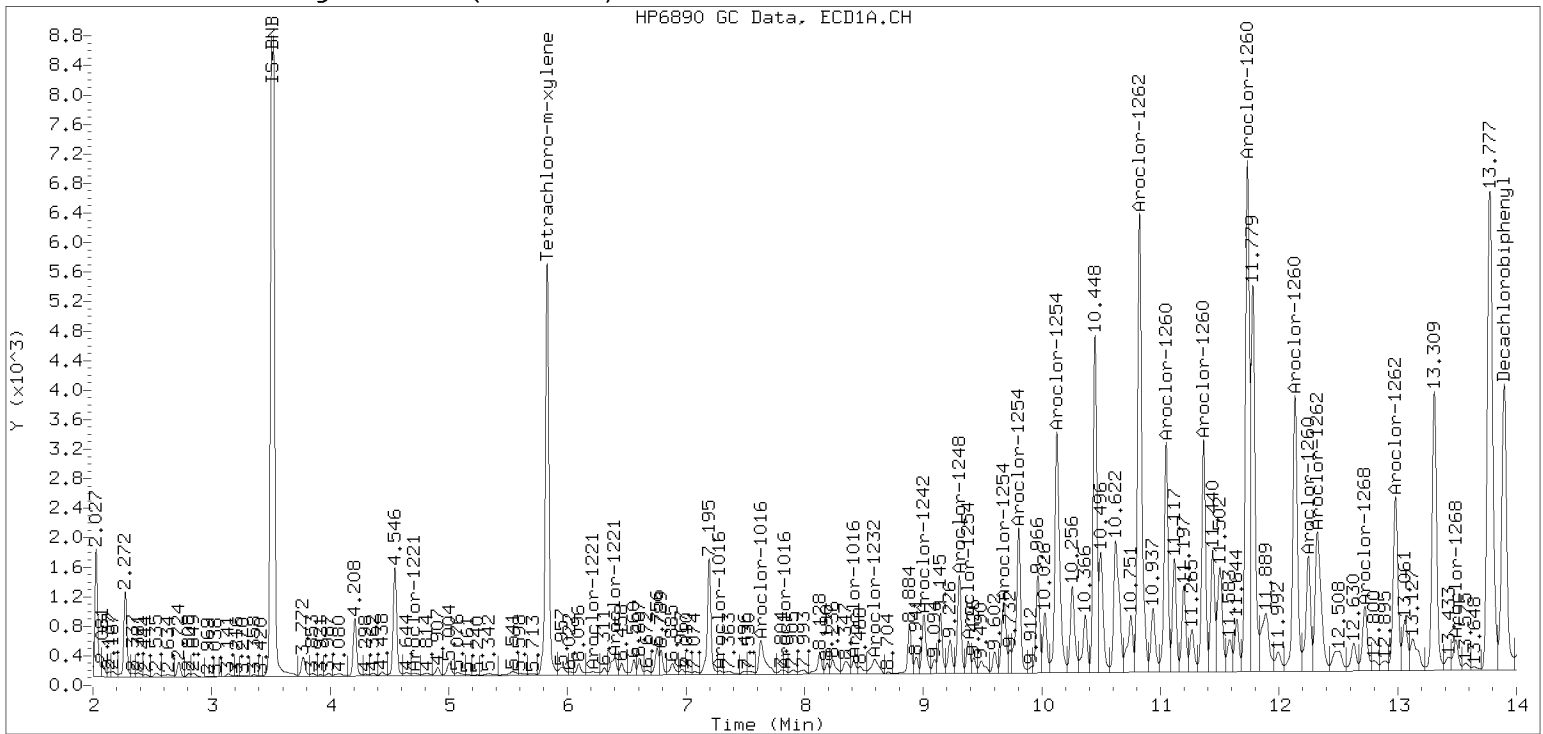
Datafile: ecd7.i/221217.b/12172211ECD7.D

Injection Date: 17-DEC-2022 12:49

Manual Integration (After)



Processed Integration (Before)





LDW22-SS774

Dual Column

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory: <u>Analytical Resources, LLC</u>	SDG: <u>22L0104</u>
Client: <u>Anchor QEA, LLC</u>	
Project: <u>AOC4 UR Phase 3</u>	
Matrix: <u>Solid</u>	Laboratory ID: <u>22L0104-02 B</u>
Sampled: <u>12/02/22 07:20</u>	Prepared: <u>12/08/22 14:38</u>
% Solids: <u>92.86</u>	Preparation: <u>EPA 3546 (Microwave)</u>
Batch: <u>BKL0190</u>	Sequence: <u>SKL0280</u>
Instrument: <u>ECD7</u>	Column 1: <u>ZB5</u>
	Column 2: <u>ZB35</u>
	File ID: <u>12172212ECD7.D</u>
	Analyzed: <u>12/17/22 13:10</u>
	Initial/Final: <u>13.47 g Wet / 2.5 mL</u>
	Calibration: <u>FL00010</u>

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
<i>Decachlorobiphenyl</i>	1	7.9947	8.63	108	40 - 126	
<i>Tetrachlorometaxylene</i>	1	7.9947	7.04	88.0	44 - 120	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172212ECD7.D
Data file 2: /221217.b/221217.b/12172212ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0104-02
Client ID:
Injection Date: 17-DEC-2022 13:10
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	253914	5.711	0.000	141337	35.2	33.9	3.6	Tetrachloro-m-xylene
13.904	-0.004	368543	14.132	-0.001	283110	43.2	40.9	5.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509016	13.7
Hexabromobiphenyl	798898	930694	16.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303737	21.9
Hexabromobiphenyl	362541	486997	34.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Total PCB Area Coll (5.936 - 13.808) = 120183

Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 49316 Col2 Total PCB = 0.0 ppm*

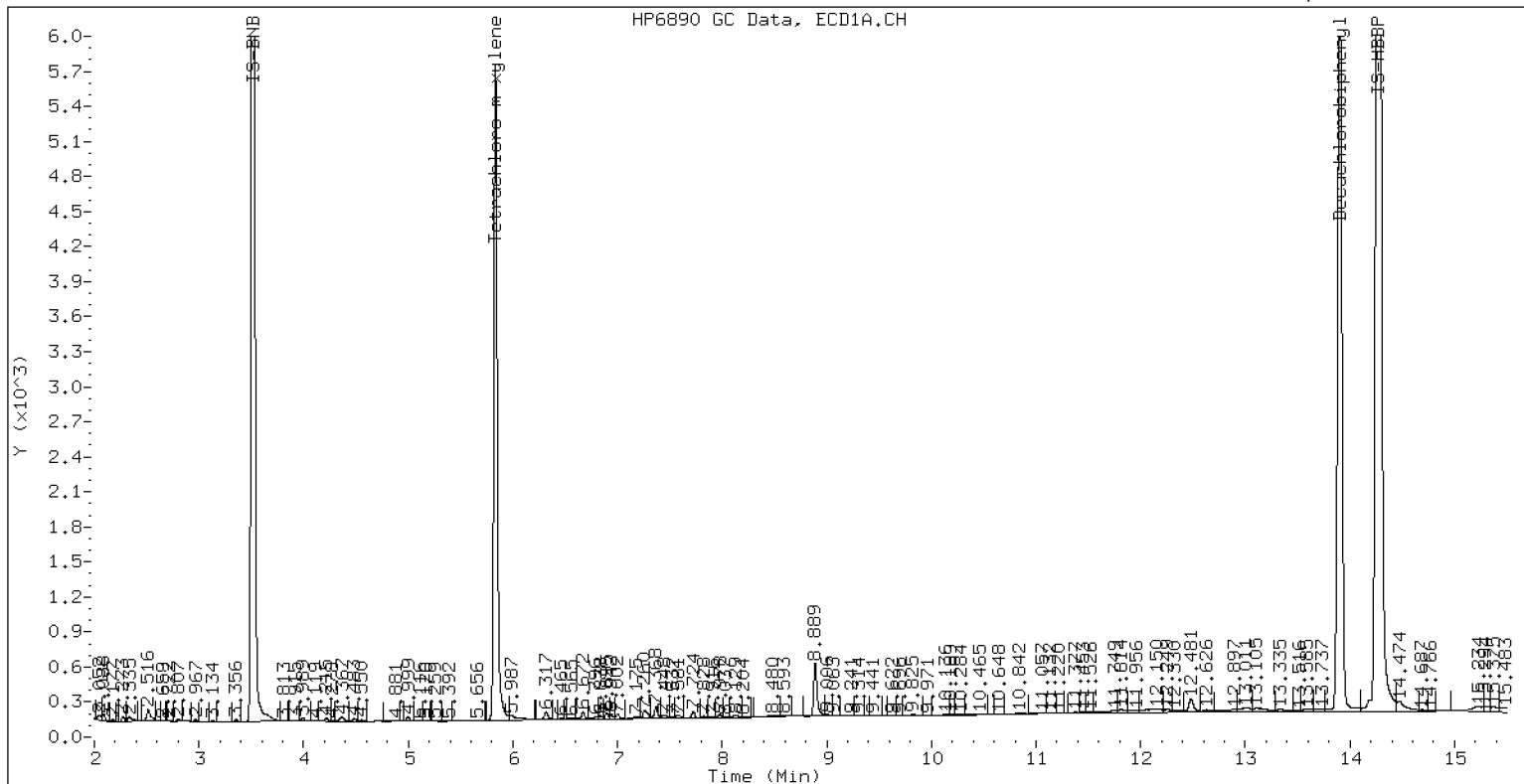
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 22L0104-02

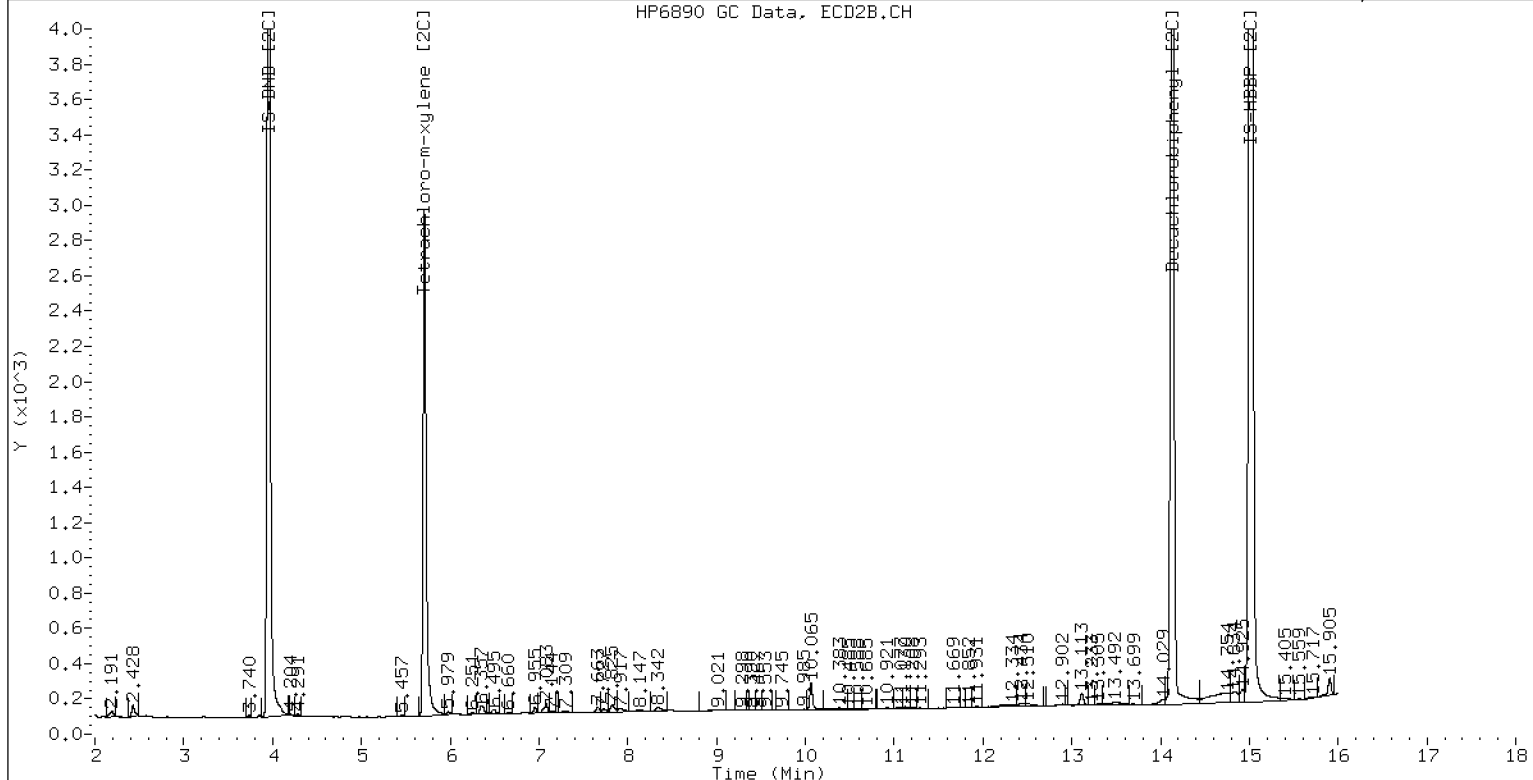
17-DEC-2022 13:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0104-02

17-DEC-2022 13:10, 2ul



ZB-35 Manual Integration: NO



PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0104
Client: Anchor QEA, LLC Project: AOC4 UR Phase 3
Batch: BKL0190 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS773	22L0104-01	12172211ECD7.D	12/08/22 14:38	
LDW22-SS774	22L0104-02	12172212ECD7.D	12/08/22 14:38	
Blank	BKL0190-BLK1	12172205ECD7.D	12/08/22 14:38	
LCS	BKL0190-BS1	12172206ECD7.D	12/08/22 14:38	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/08/22 14:38	
Reference	BKL0190-SRM1	12172208ECD7.D	12/08/22 14:38	



Batch: BKL0190

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid

Date Prepared: 12/18/22

Balance ID: B146462614

Set Up By: GPO 721/8/22

WO Comments
 22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
 <H>BPR J006840-43, 7935-36 Dup </H>
 22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
 <H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g)		(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL)	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 12.5 (Wet)	Actual						
22L0104-01 B	48.0	(26.06)	26.07	5mL	5mL	2mL	2.5	1.0	
22L0104-02 B	92.9	(13.46)	13.47	5mL	5mL	2mL	2.5	1.0	
22L0136-01 A	51.2	(24.41)	24.44	5mL	5mL	2mL	2.5	1.0	
22L0136-02 A	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	
22L0136-03 A	88.3	(14.16)	14.16	5mL	5mL	2mL	2.5	1.0	
22L0136-04 A	72.8	(17.16)	17.19	5mL	5mL	2mL	2.5	1.0	
22L0136-05 A	89.6	(13.95)	13.97	5mL	5mL	2mL	2.5	1.0	
22L0136-06 A	60.8	(20.55)	20.62	5mL	5mL	2mL	2.5	1.0	
22L0136-07 A	47.5	(26.31)	26.33	5mL	5mL	2mL	2.5	1.0	
22L0136-08 A	65.9	(18.96)	18.95	5mL	5mL	2mL	2.5	1.0	
22L0136-09 A	75.5	(16.57)	16.57	5mL	5mL	2mL	2.5	1.0	Corrupt
22L0136-10 A	42.7	(29.30)	29.39	5mL	5mL	2mL	2.5	1.0	
22L0136-11 A	42.5	(29.38)	29.41	5mL	5mL	2mL	2.5	1.0	8.5% of (11A) poured into (09 A)
22L0136-12 A	38.9	(32.13)	32.16	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g)		(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL)	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 12.5 (Wet)	Actual						
BKL0190-BLK1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-BS1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-BSD1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0190-MS1	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	Use 22L0136-02
BKL0190-MSD1	94.7	(13.20)	13.25	5mL	5mL	2mL	2.5	1.0	Use 22L0136-02
BKL0190-SRM1	100.0	(12.50) ^(2.50)	2.50	5mL	5mL	2mL	2.5	1.0	Use K010815

+1g DI WATER

Client verified By: [Signature] 12/18/22

Date

Preparation Reviewed By: JWC 12/16/22

Date

Extraction Date and Time: 12/18/22 14:38



Batch: BKL0190

Prepared using: EPA 3546 (Microwave)
8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments
 22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
 <H>BPR J006840-43, 7935-36 Dup </H>
 22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
 <H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps	Reagents Used	Standard ID	Surrogates & Spike Standards Used				
Microwave	Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
1 2 3 Analyst/Date: <i>GT 12/08/22</i>	Microwave Analyst: <i>GT/ML</i> Date: <i>12/08/22</i> Neutral Glass Wool	<i>K0120266</i>	Surrogate	N <i>K010600</i>	50µL	<i>GT</i>	<i>ML</i>
	1:1 Hexane/Acetone Hexane Anhydrous Sodium Sulfate	<i>K010163</i> <i>K008310</i> <i>K010995</i>	2µg/mL	Exp Date: <i>1/23/2023</i>			
KD 100°C Hexane Exchange (2 X 20 mL) 1 2 3 4 5 6 Analyst/Date: <i>CP 12/13/22</i>	KD Analyst: <i>CP</i> Date: <i>12/13/22</i> Anhydrous Sodium Sulfate Hexane	<i>K011373</i>	Spike	1 <i>K008150</i>	63µL	<i>GT</i>	<i>ML</i>
	Vialing Analyst: <i>TWCLNRS</i> Date: <i>12/16/22</i> Hexane	<i>K011373</i>	20µg/mL	Exp Date: <i>3/15/2023</i>			
TurboVap Pre Cleanups 1 2 3 4 5 Analyst/Date: <i>NKB 12/15/22</i>	Concentrated Sulfuric Acid Silica Gel (SPE) Darts Sodium Sulfite Tetrabutylammonium hydrogensulfate (TBAS)	<i>K009796</i> <i>K005438</i> <i>K003744</i> <i>K010832</i>	MANUALLY ENTER EXPIRATION DATES! (V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards. If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).				
TurboVap Post Cleanups 1 2 3 4 5 Analyst/Date: <i>TWC 12/16/22</i>	Analyst: <i>TWC</i> Date: <i>12/16/22</i> Silica Gel (SPE) Darts Sodium Sulfite Tetrabutylammonium hydrogensulfate (TBAS)	<i>K005438</i> <i>K003744</i> <i>K010832</i>					
Vialing Analyst/Date: <i>TWC 12/16/22</i>							



Batch: BKL0190

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0104: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H>
22L0136: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions

SPECIAL INSTRUCTIONS:

1. Weigh soil/sed into beakers-lightly dry with sodium sulfate.
2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels).
3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization.
4. Add surr/spike.
5. Microwave on appropriate power setting determined by # of samples.
6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool.
7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug.
8. Re-homogenize and rinse with 1:1 Hexane/Acetone.
9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane.
10. KD on 100° bath.
11. Exchange (2 X with 20mL) Hexane.
12. TurboVap.
13. Clean-ups.
14. TurboVap.
15. Vial with Hexane.

A. Need Total Solids Y

B. Archive/Freeze

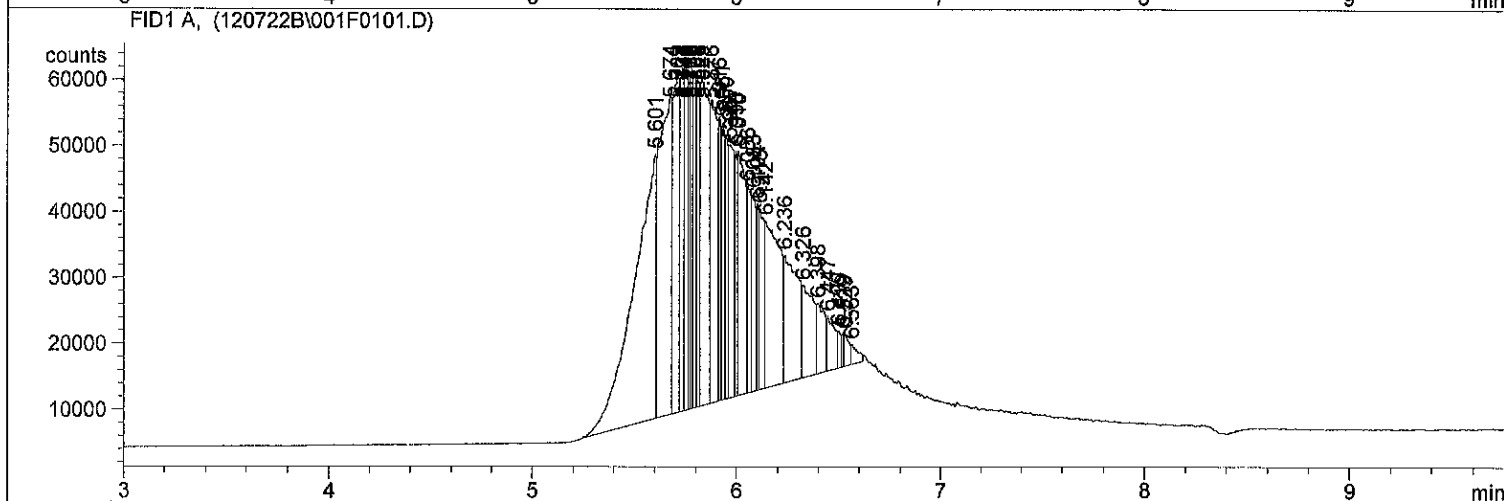
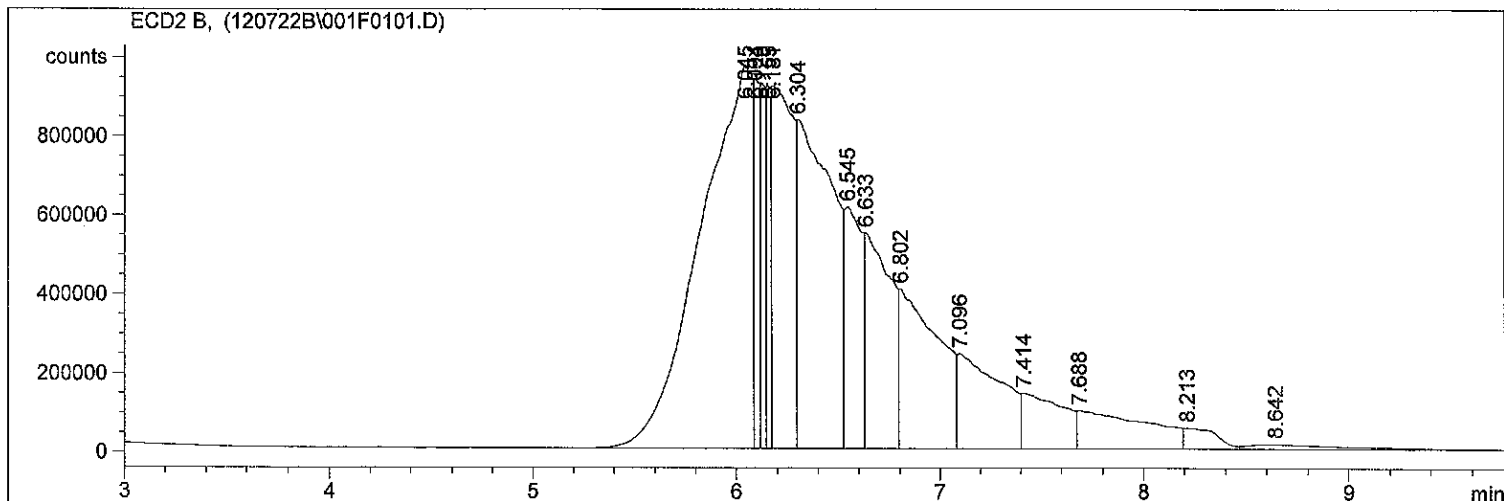


Extraction Parameter: PUB Extraction Batch BKLD190

Total Solids Batch: BKLD132 Work Order(s): 22LD134

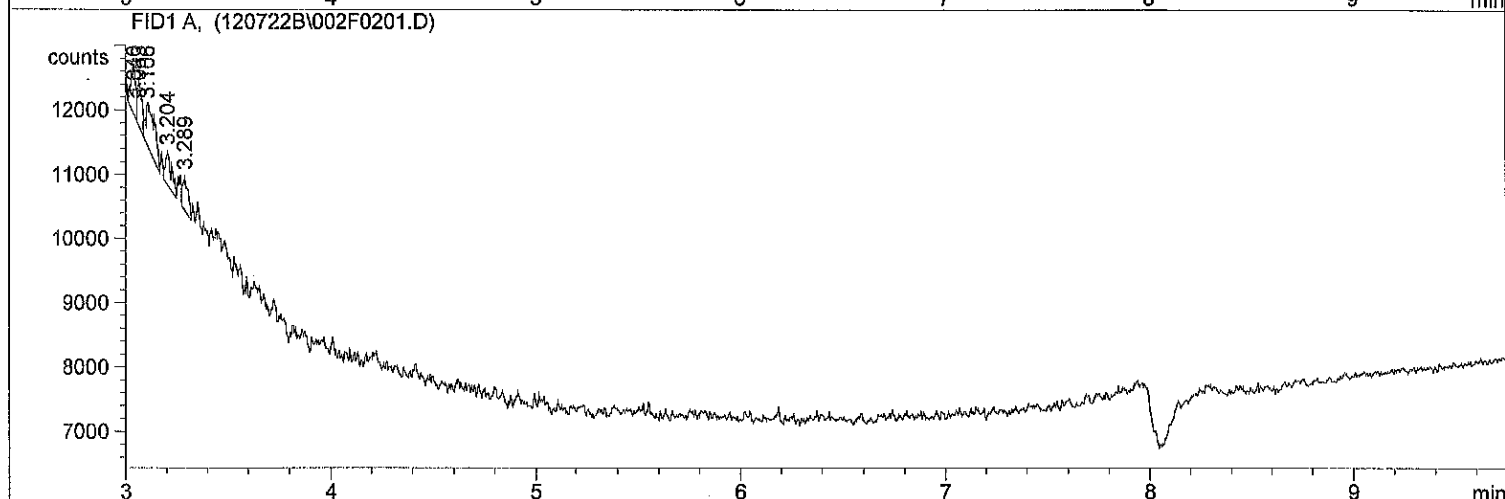
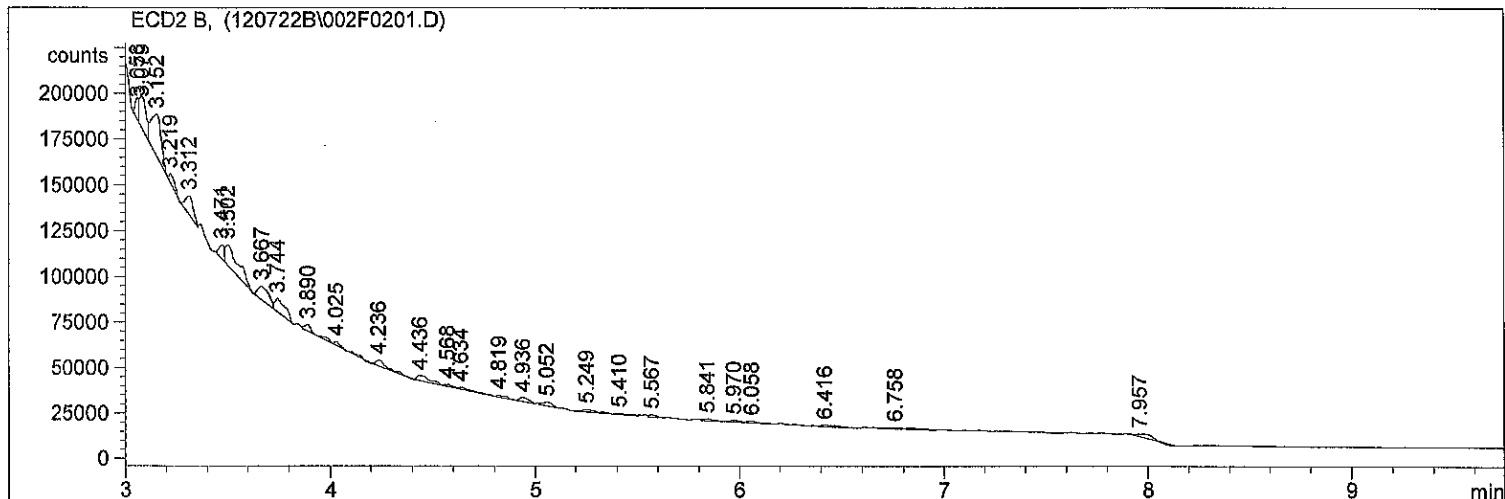
Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>02-</u>	CR 12/16
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? <u>4.1 10.1 = 0.1</u>	CR 12/16
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / N	CR 12/16
<input checked="" type="checkbox"/> Multiple Jars Y / N	CR 12/16
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

=====
Injection Date : 12/7/2022 6:09:53 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***

=====
Injection Date : 12/7/2022 6:24:20 PM Seq. Line : 2
Sample Name : PNA STD 10PPM Location : Vial 2
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



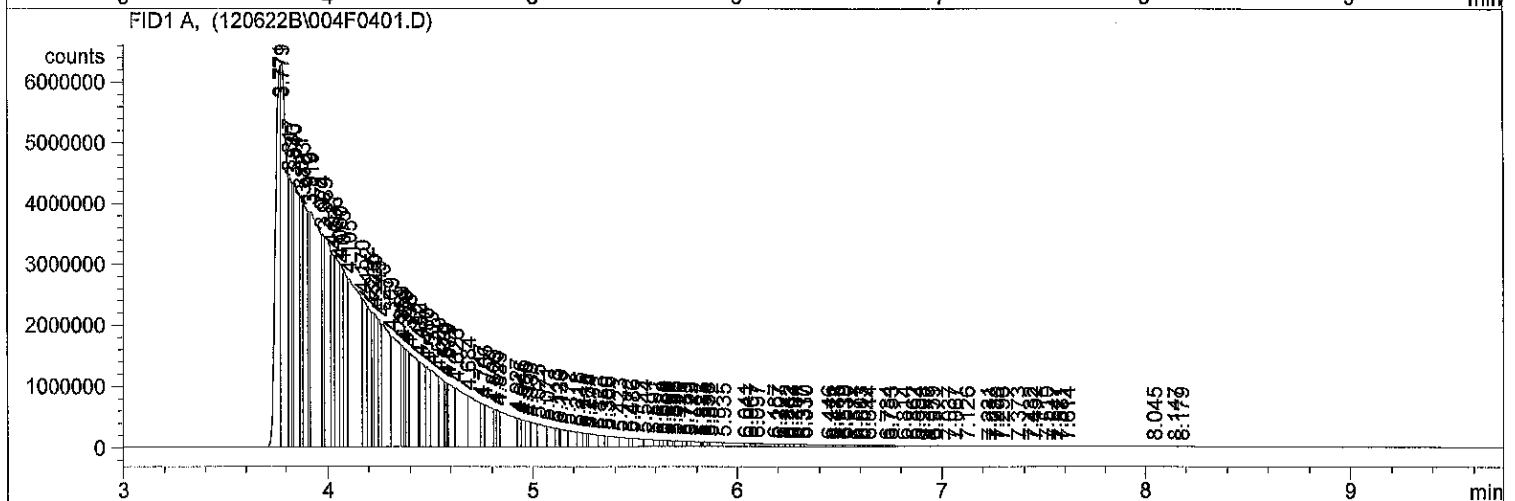
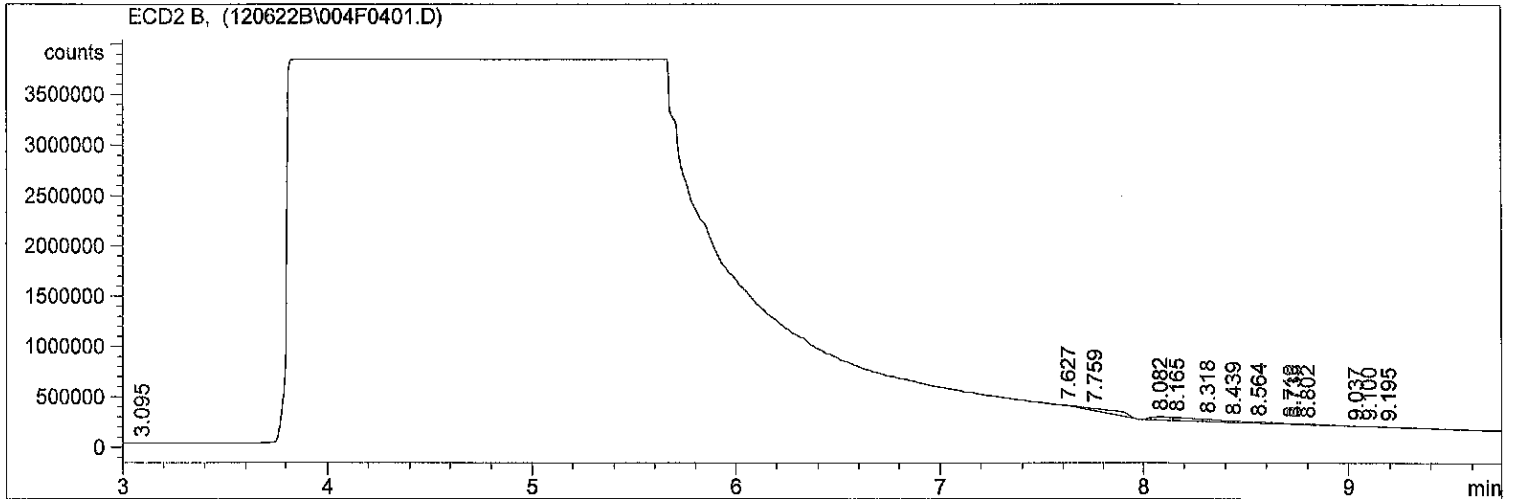
*** End of Report ***

```

=====
Injection Date   : 12/6/2022 6:19:49 PM      Seq. Line :    4
Sample Name     : 22L0104 01                Location  : Vial 4
Acq. Operator  : YL                        Inj      :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\120622B.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====

```



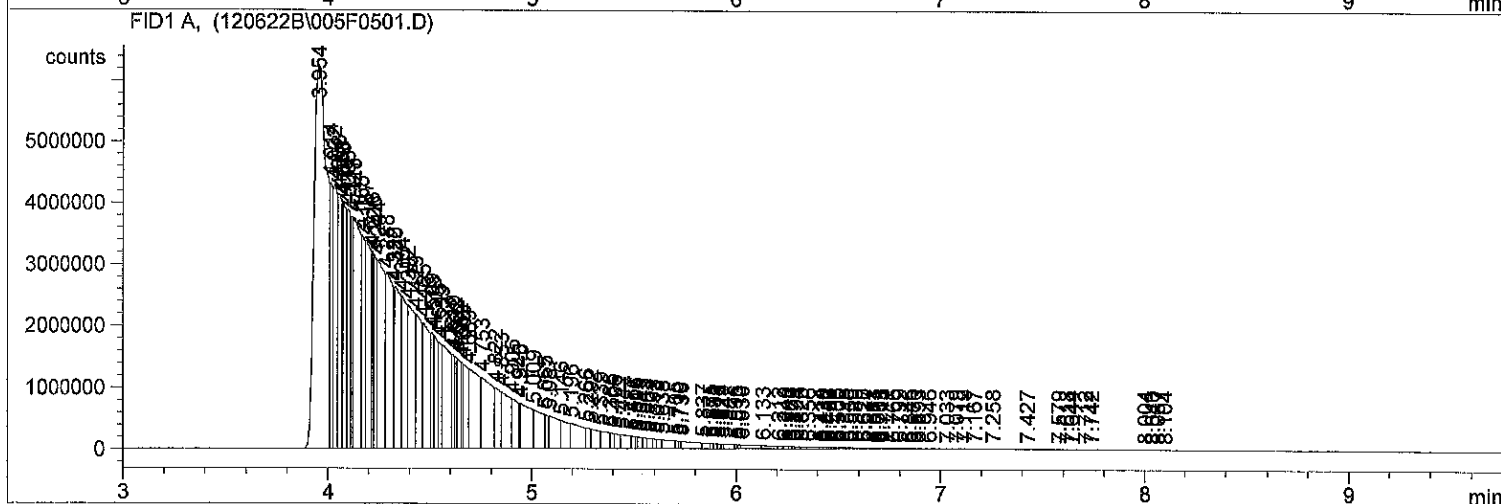
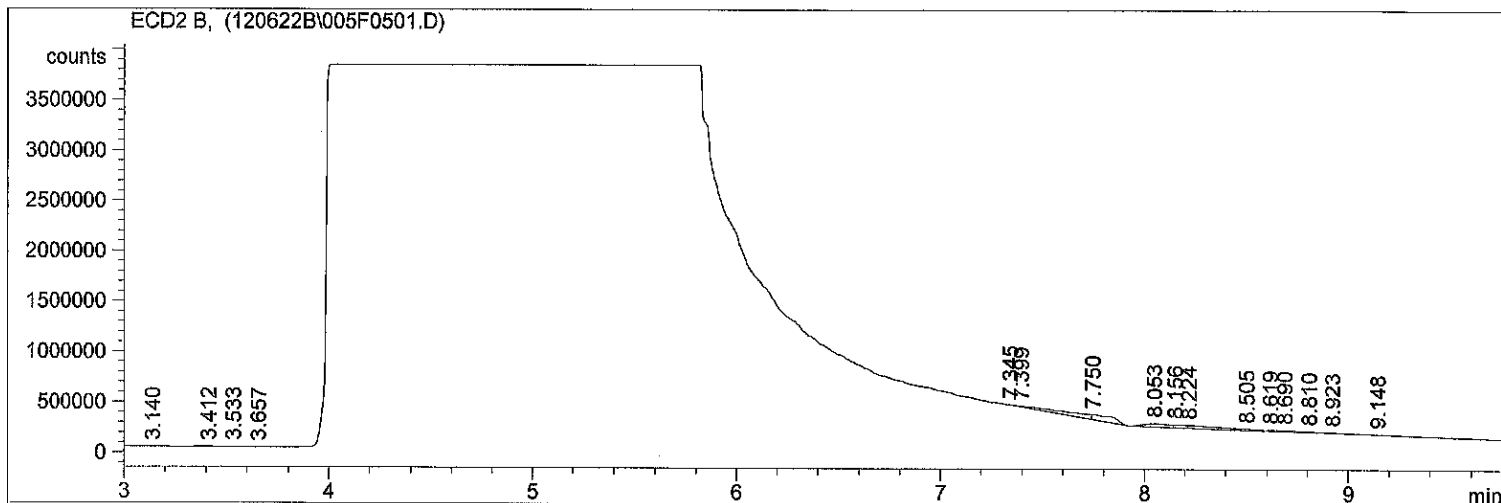
*** End of Report ***

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=====
Injection Date : 12/6/2022 6:33:22 PM      Seq. Line : 5
Sample Name    : 22L0104 02                Location  : Vial 5
Acq. Operator  : YL                        Inj      : 1
                                           Inj Volume: 1 µl

Sequence File  : C:\HPCHEM\1\SEQUENCE\120622B.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====

```



*** End of Report ***

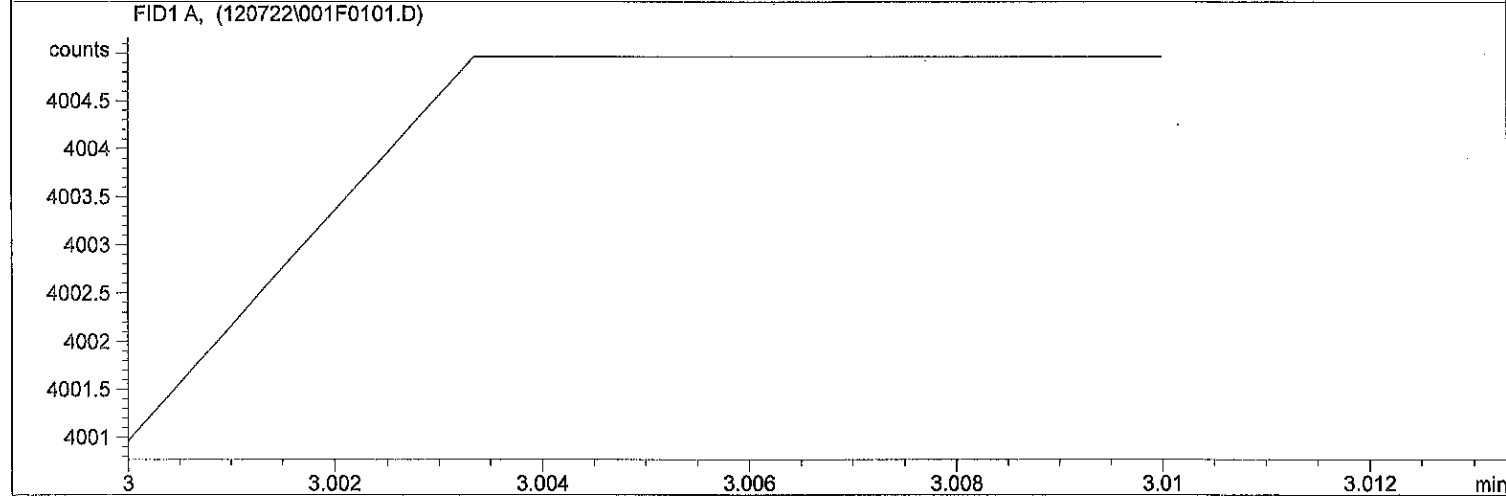
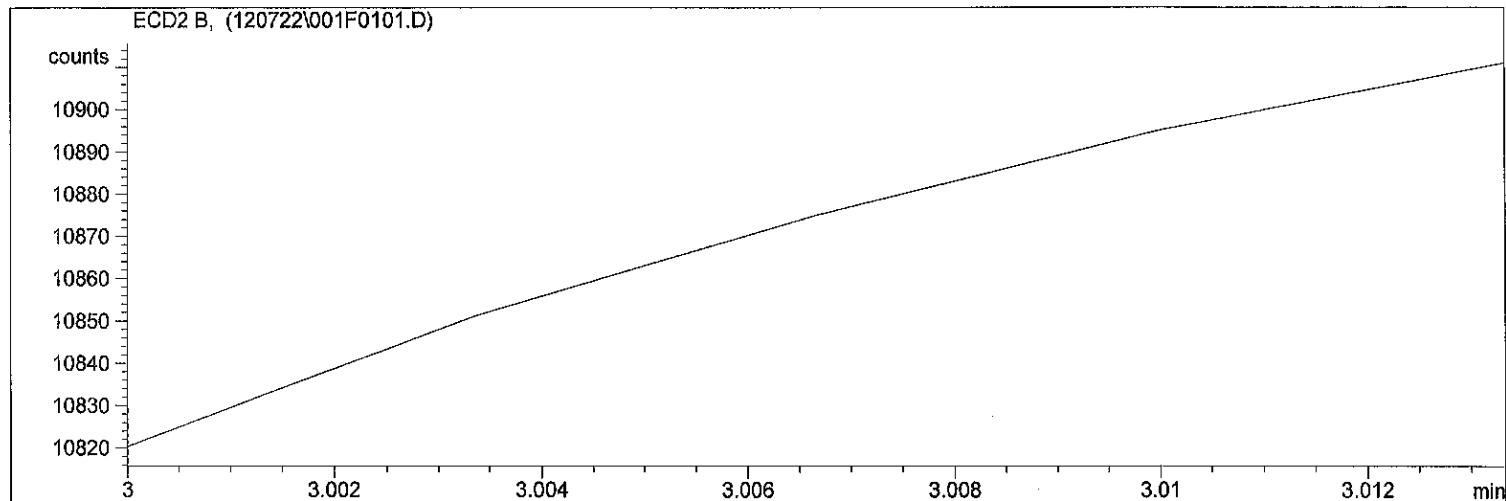


Extraction Parameter: ELB Extraction Batch BKLD190

Total Solids Batch: BKLD191 Work Order(s): 22L0136

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= $\phi 1 - \phi 3, \phi 5 - \phi 7, 9$	\checkmark 12/17/22
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= $\phi 1, \phi 4, 6 - 14$	\checkmark 12/17/22
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? $\frac{1}{4} 5:0/0 = \phi 8$	\checkmark 12/17/22
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= $5:0/0 = \phi 4$ $60:0/0 = 14$	\checkmark 12/17/22
<input checked="" type="checkbox"/> Oily, obvious fuel/sulfur odors= $1\phi - 13$	\checkmark 12/17/22
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input checked="" type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y/N	\checkmark 12/17/22
<input checked="" type="checkbox"/> Multiple Jars Y/N	\checkmark 12/17/22
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

=====
Injection Date : 12/7/2022 6:05:25 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722S.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====

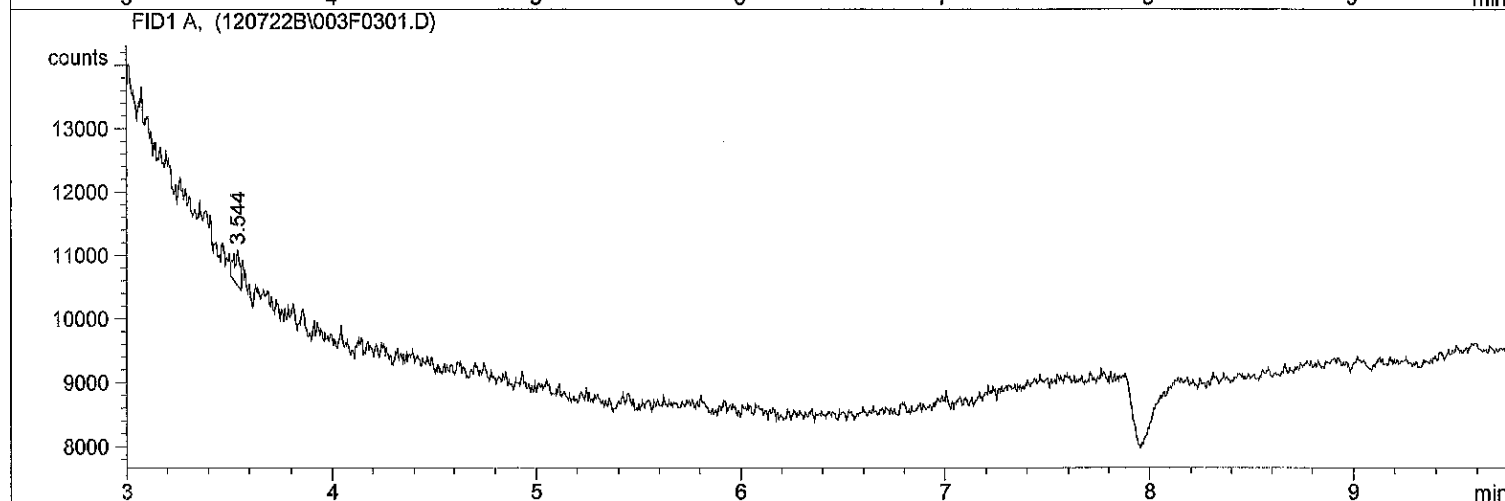
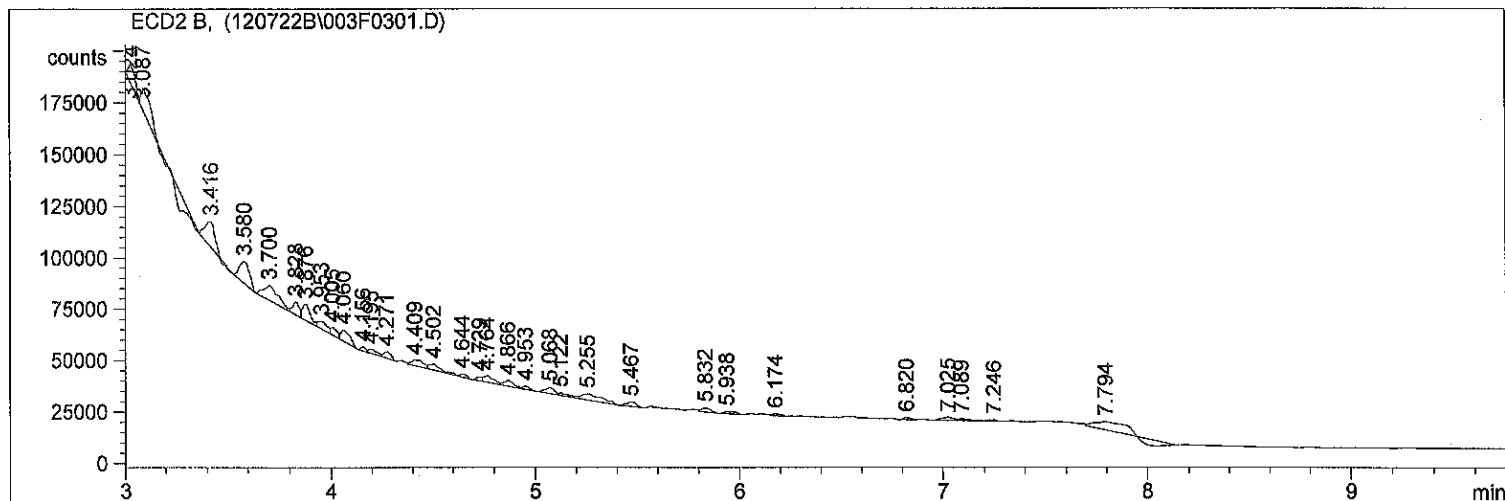


*** End of Report ***

```

=====
Injection Date   : 12/7/2022 6:38:41 PM      Seq. Line   :    3
Sample Name     : AR1660 1PPM                Location    : Vial 3
Acq. Operator  : YL                          Inj         :    1
                                           Inj Volume  : 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====
    
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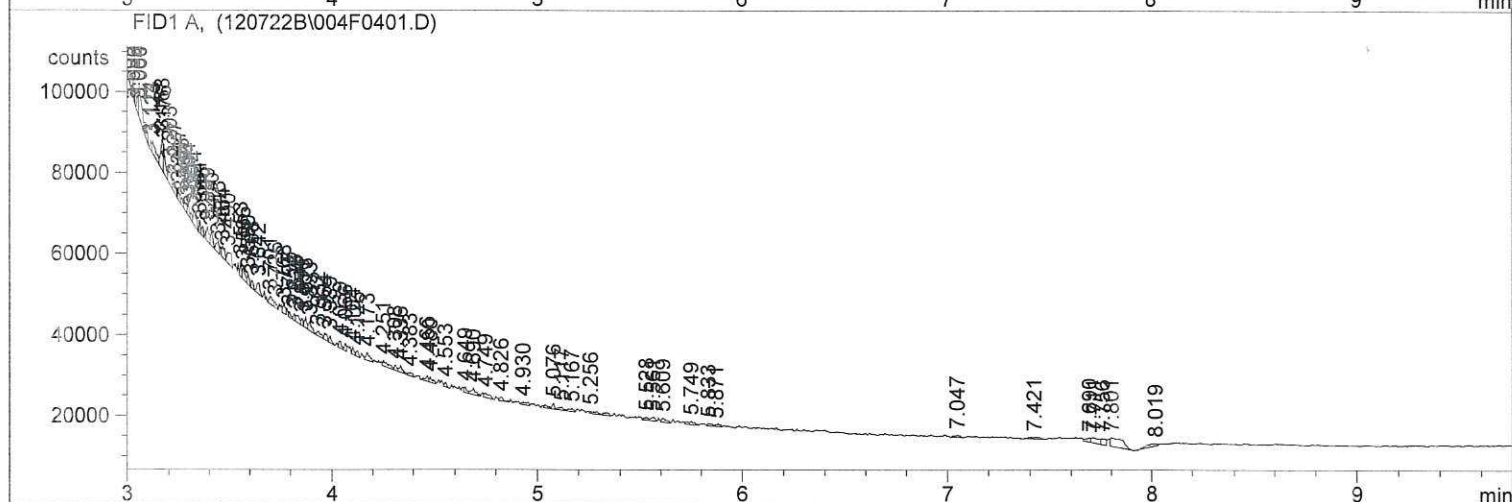
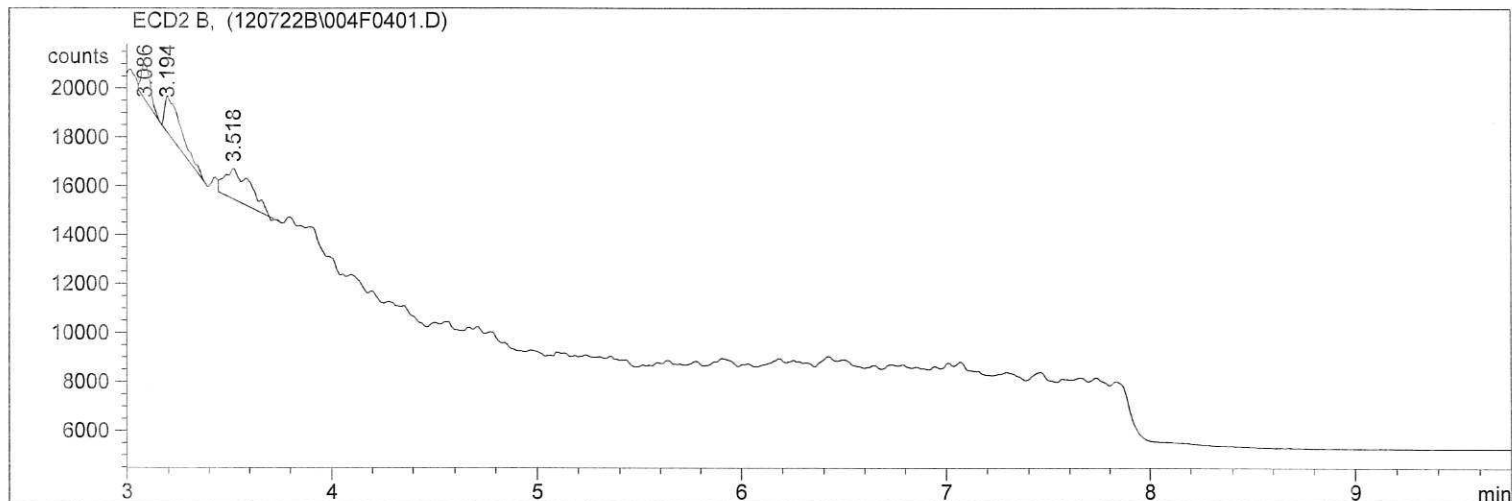


*** End of Report ***

```

=====
Injection Date : 12/7/2022 6:52:15 PM      Seq. Line : 4
Sample Name    : 22L0136 01                Location  : Vial 4
Acq. Operator  : YL                        Inj      : 1
                                           Inj Volume: 1 µl

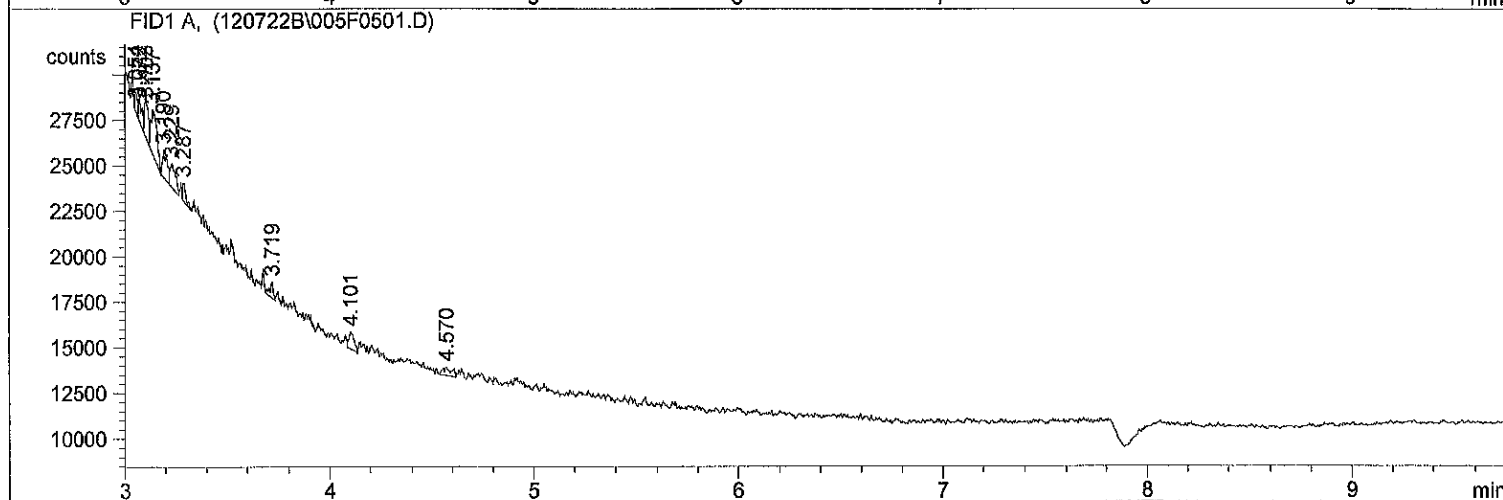
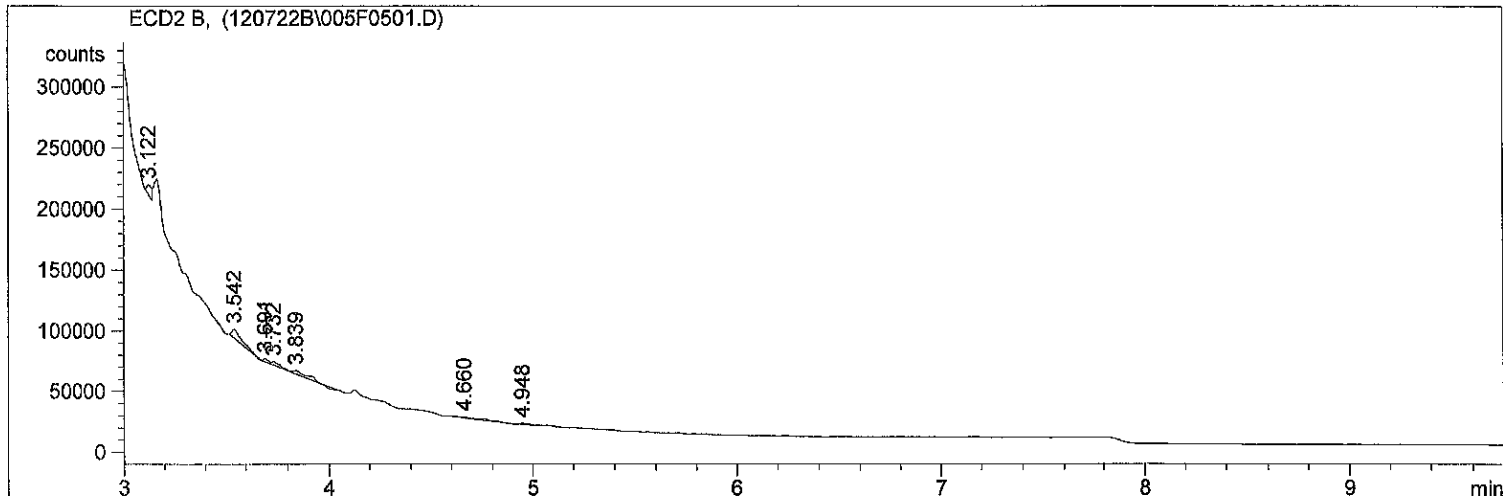
Sequence File  : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====
    
```



*** End of Report ***

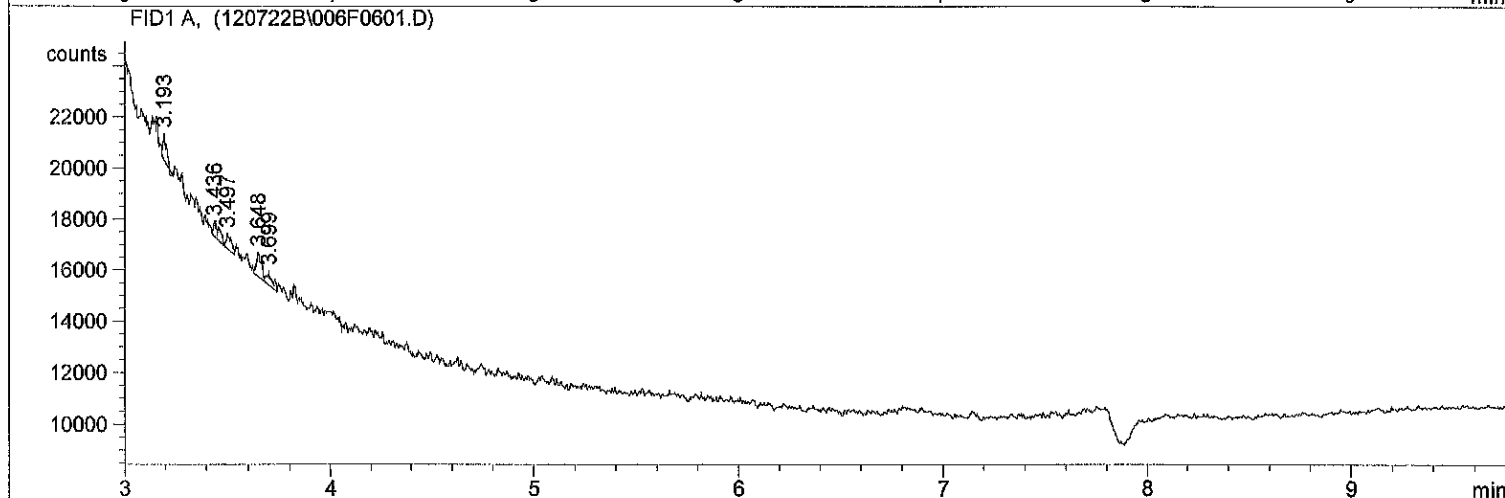
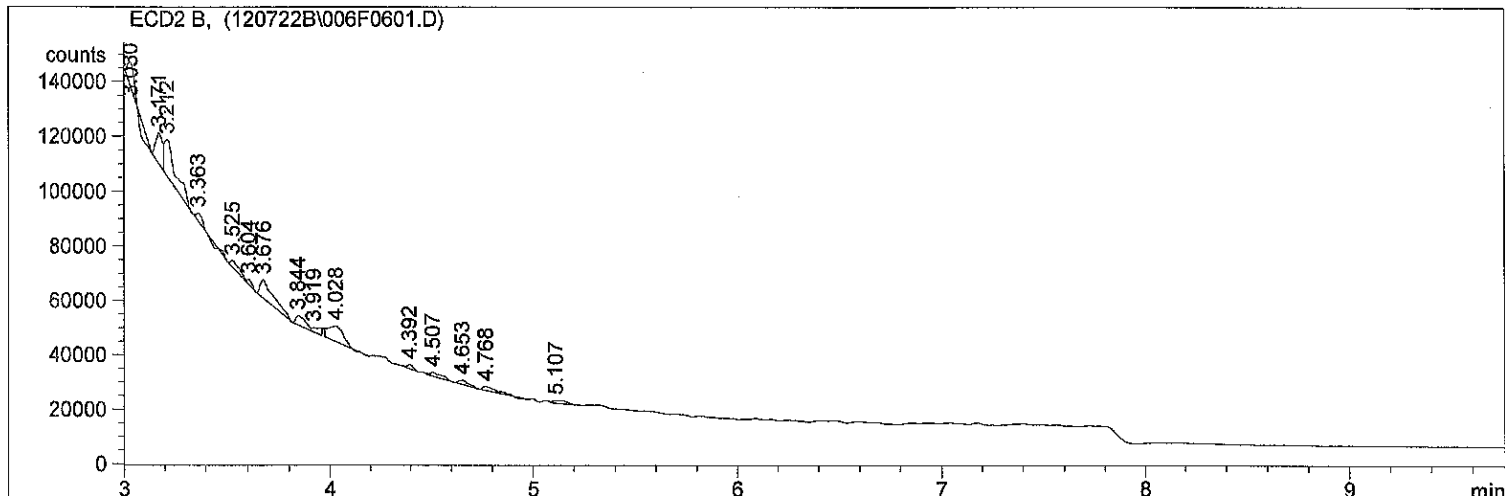
=====
Injection Date : 12/7/2022 7:06:08 PM Seq. Line : 5
Sample Name : 22L0136 02 Location : Vial 5
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***

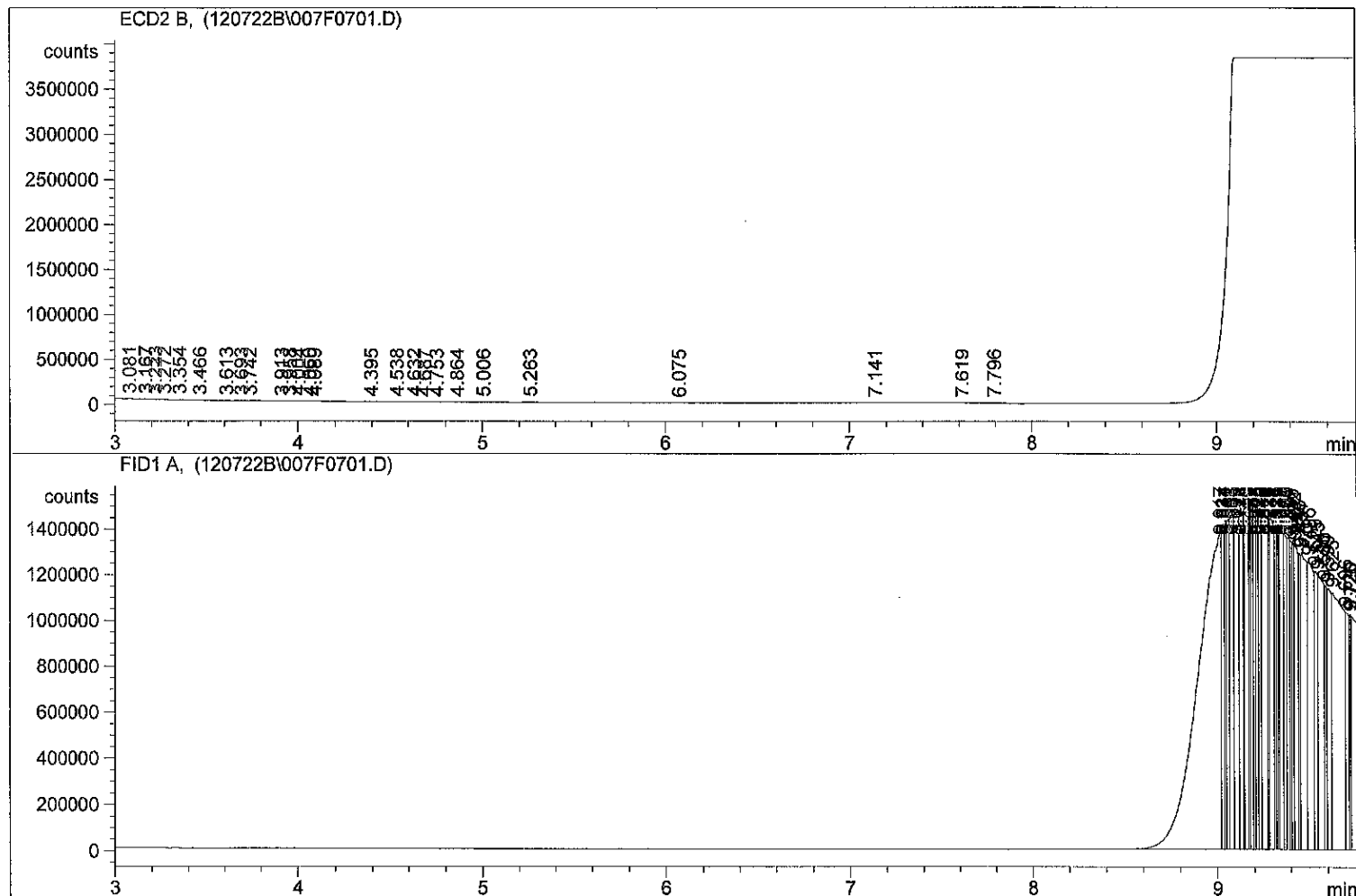
Injection Date : 12/7/2022 7:19:39 PM Seq. Line : 6
Sample Name : 22L0136 03 Location : Vial 6
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

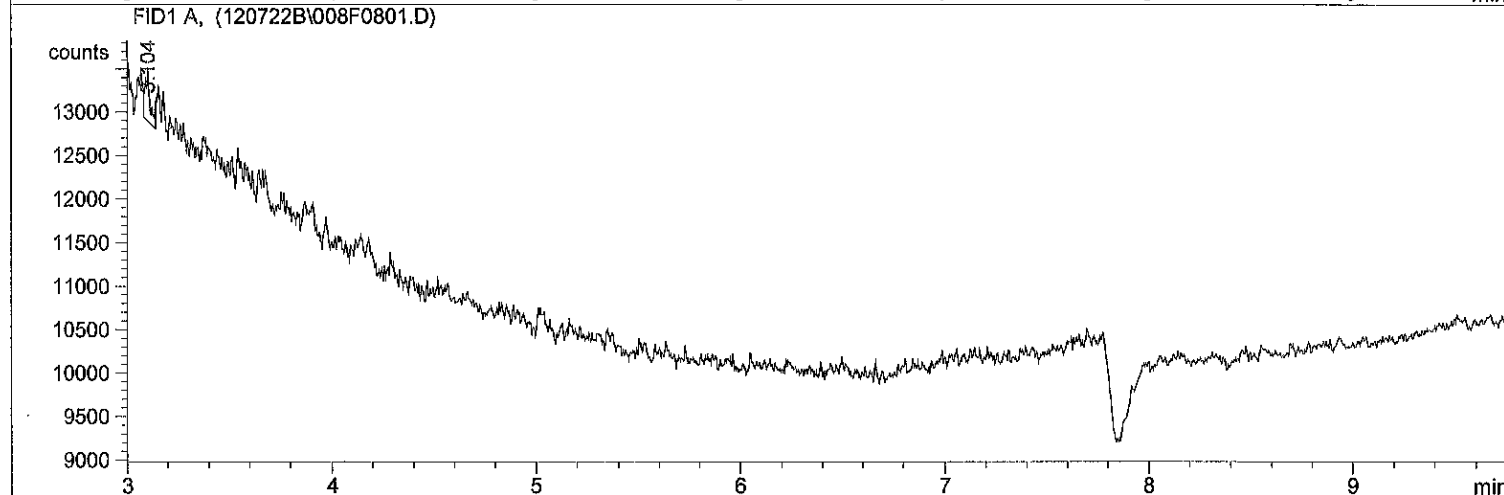
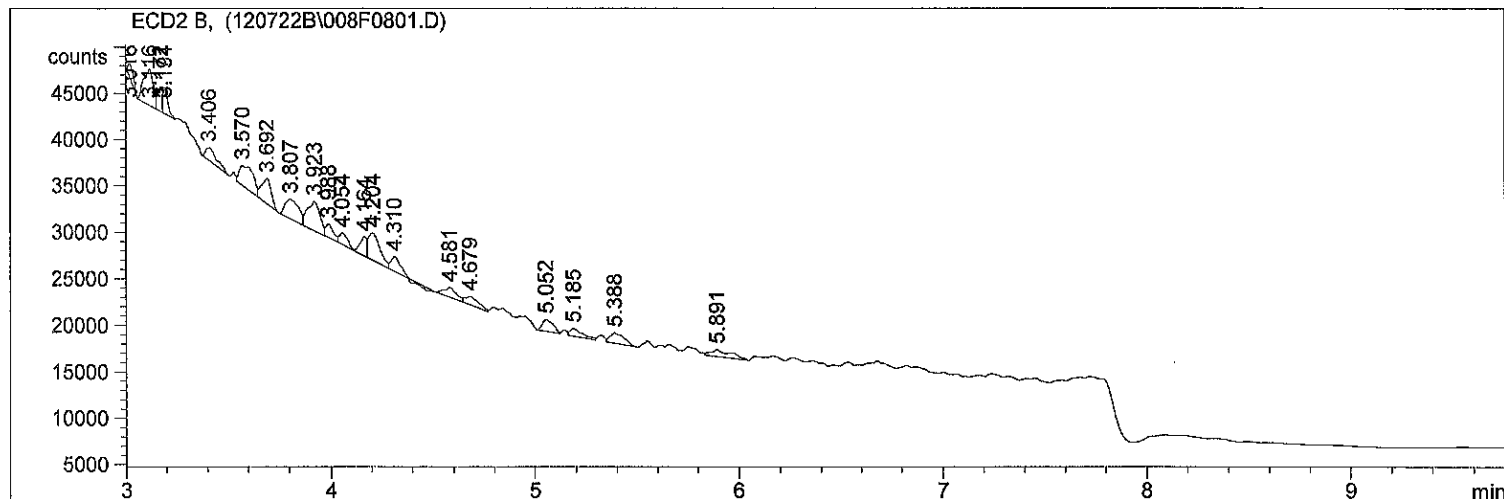
```
=====
Injection Date   : 12/7/2022 7:33:29 PM      Seq. Line :    7
Sample Name     : 22L0136 04                 Location  : Vial 7
Acq. Operator   : YL                          Inj      :    1
                                           Inj Volume: 1 µl

Sequence File   : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method         : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed   : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====
```



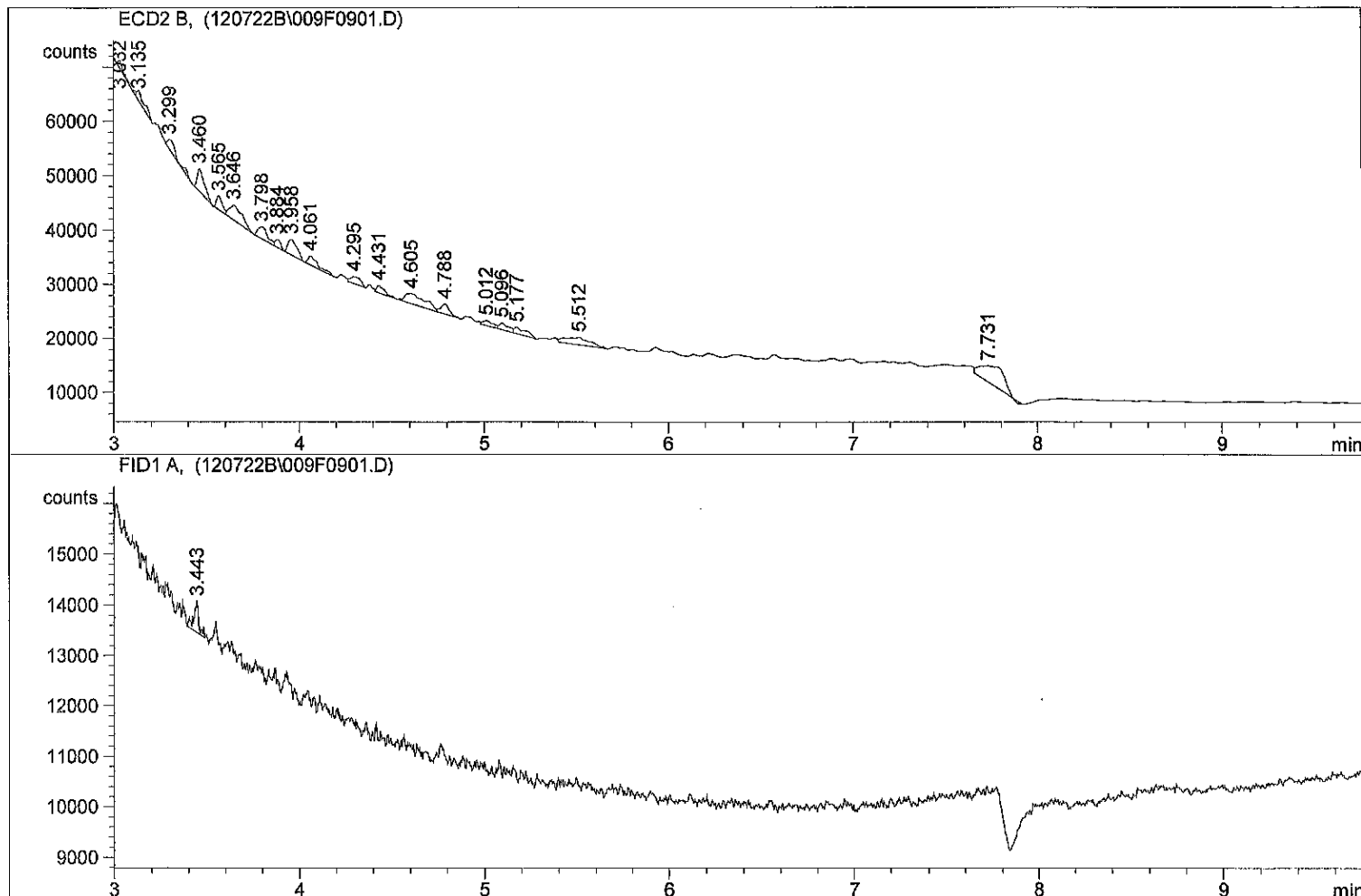
*** End of Report ***

=====
Injection Date : 12/7/2022 7:47:05 PM Seq. Line : 8
Sample Name : 22L0136 05 Location : Vial 8
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



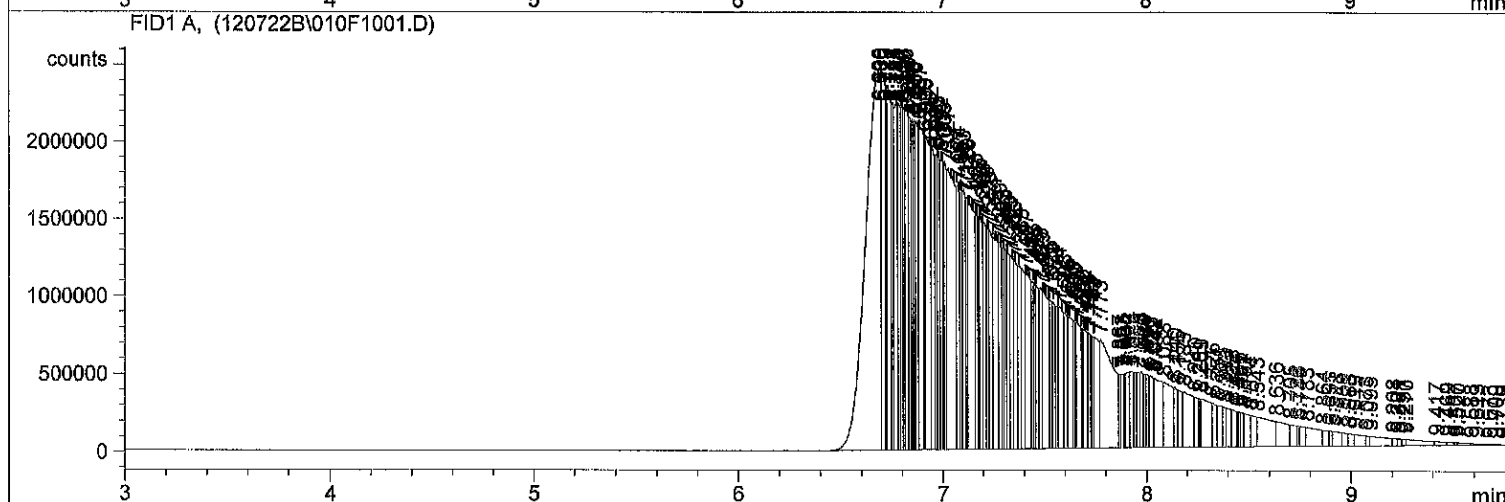
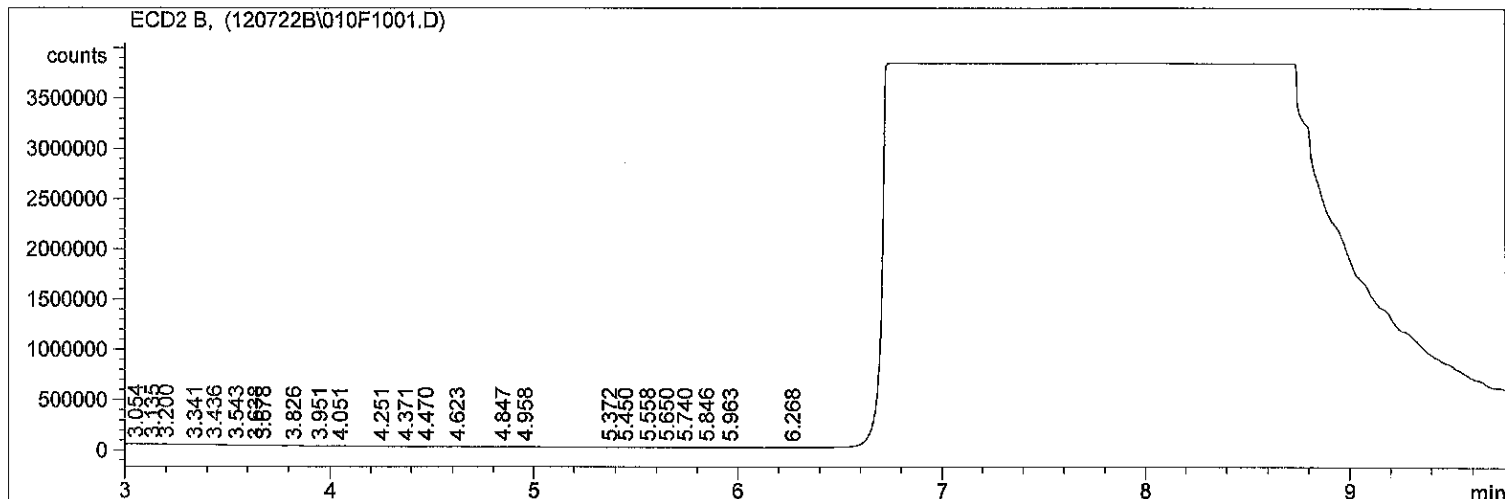
*** End of Report ***

=====
Injection Date : 12/7/2022 8:00:47 PM Seq. Line : 9
Sample Name : 22L0136 06 Location : Vial 9
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



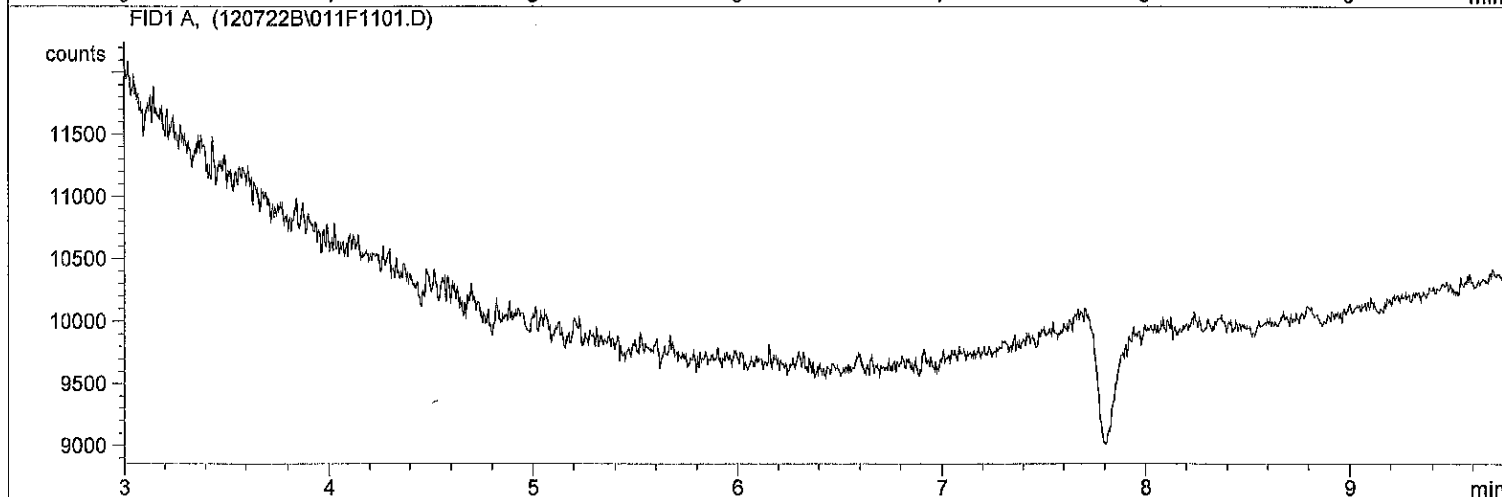
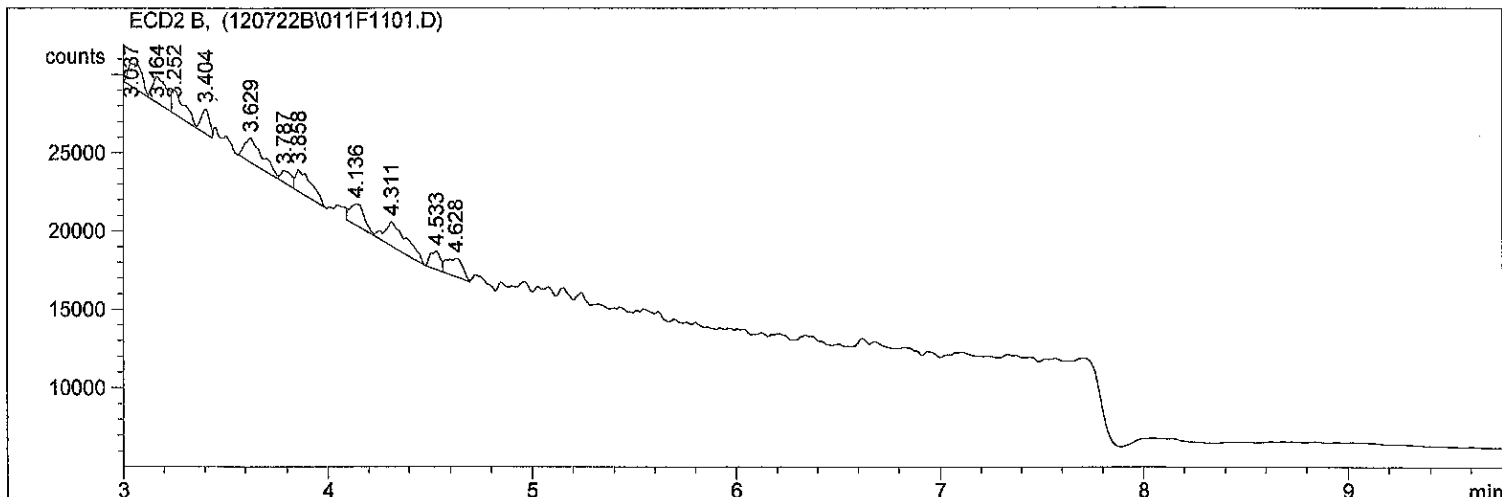
*** End of Report ***

=====
Injection Date : 12/7/2022 8:15:35 PM Seq. Line : 10
Sample Name : 22L0136 07 Location : Vial 10
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



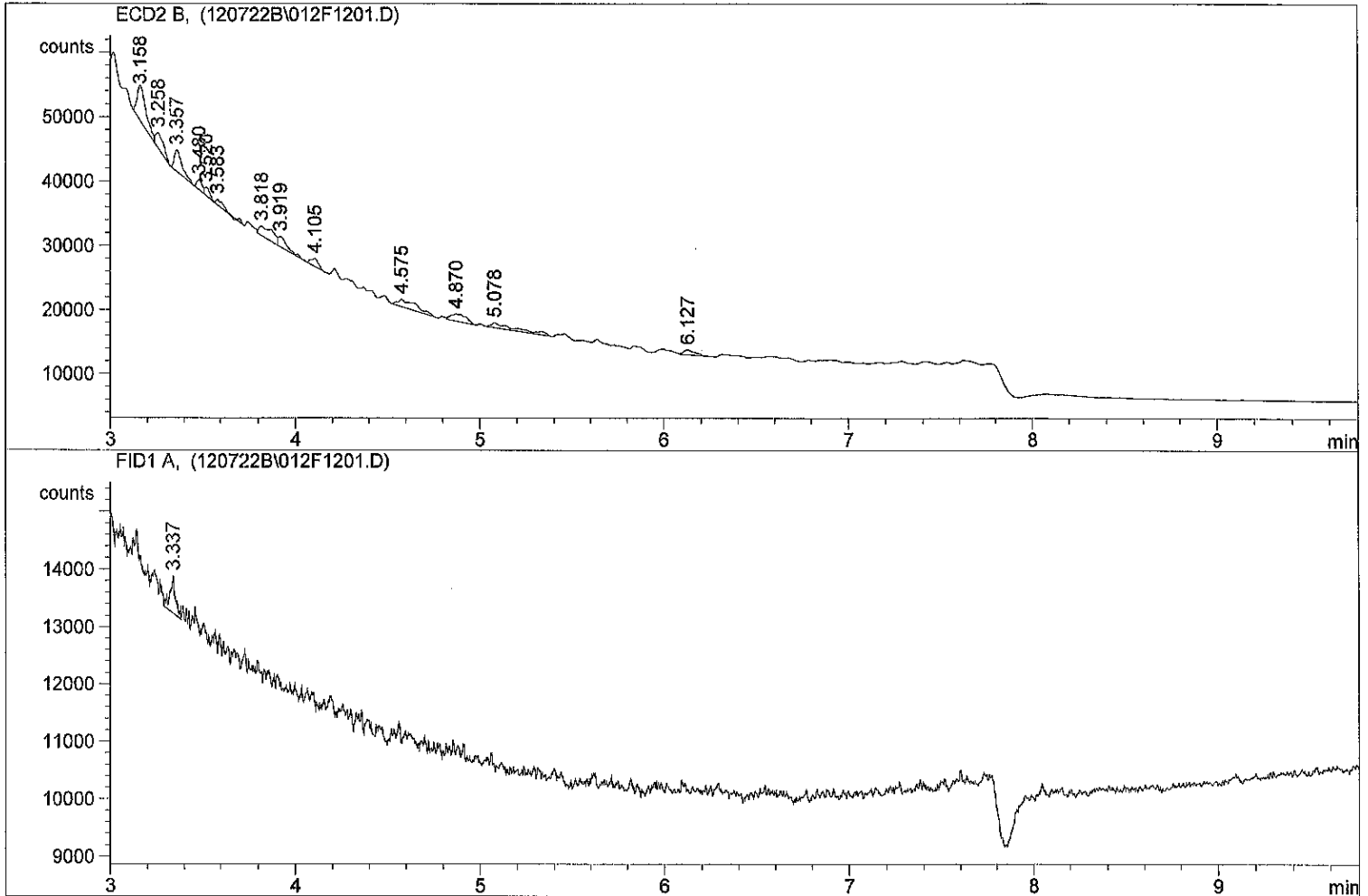
*** End of Report ***

=====
Injection Date : 12/7/2022 8:29:05 PM Seq. Line : 11
Sample Name : 22L0136 08 Location : Vial 11
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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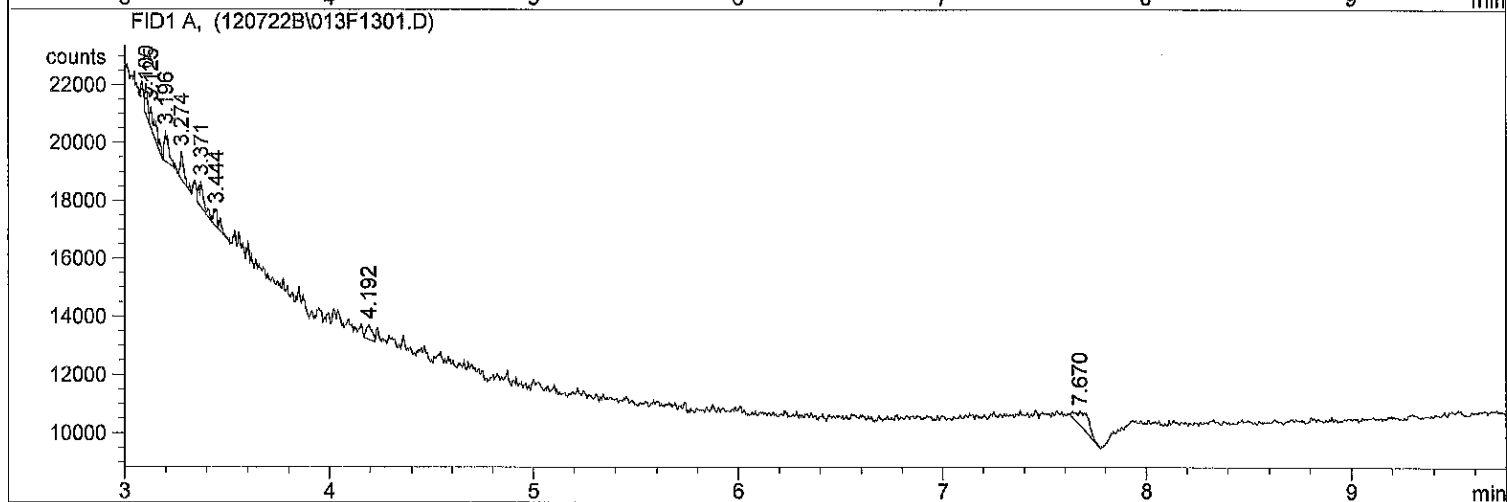
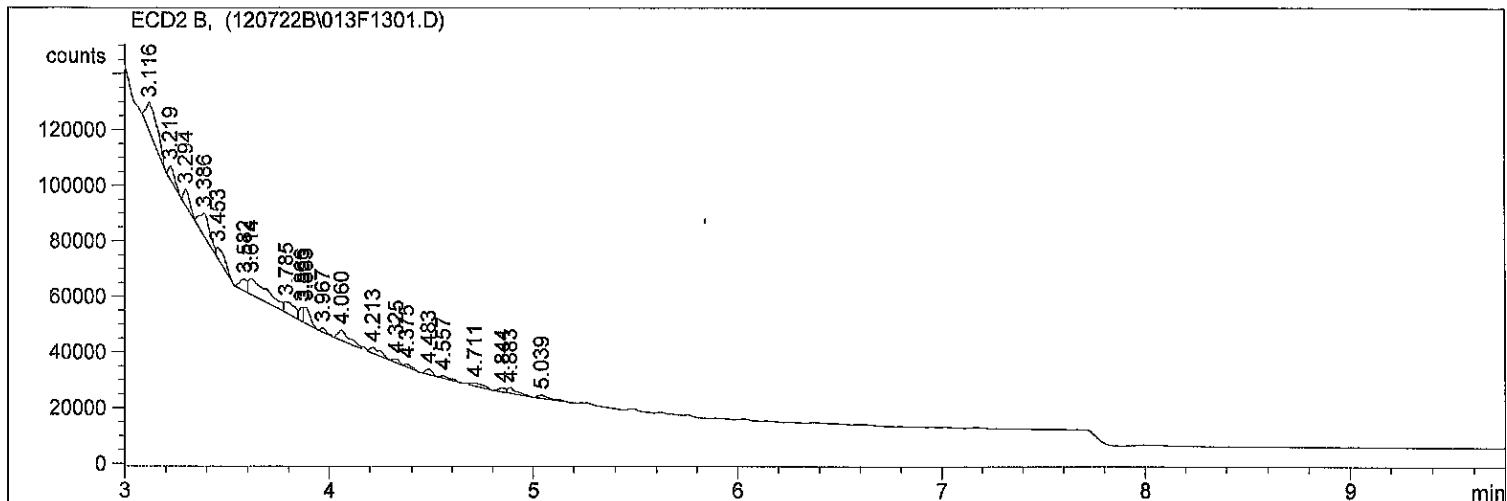
*** End of Report ***

=====
Injection Date : 12/7/2022 8:43:41 PM Seq. Line : 12
Sample Name : 22L0136 09 Location : Vial 12
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



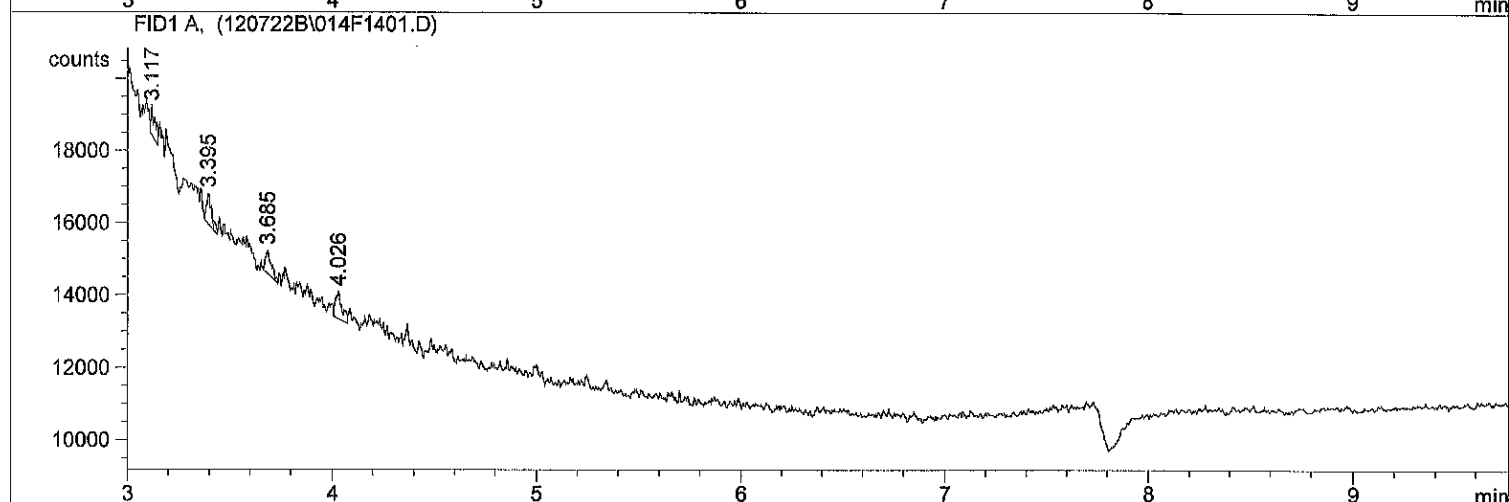
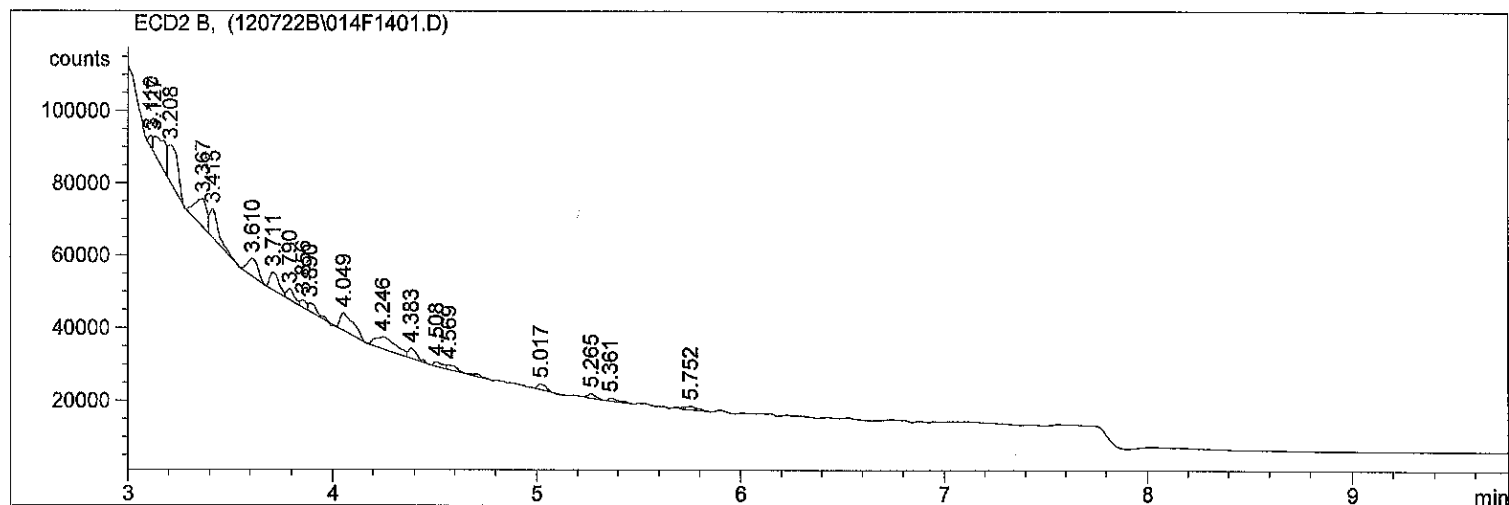
*** End of Report ***

=====
Injection Date : 12/7/2022 8:57:07 PM Seq. Line : 13
Sample Name : 22L0136 10 Location : Vial 13
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



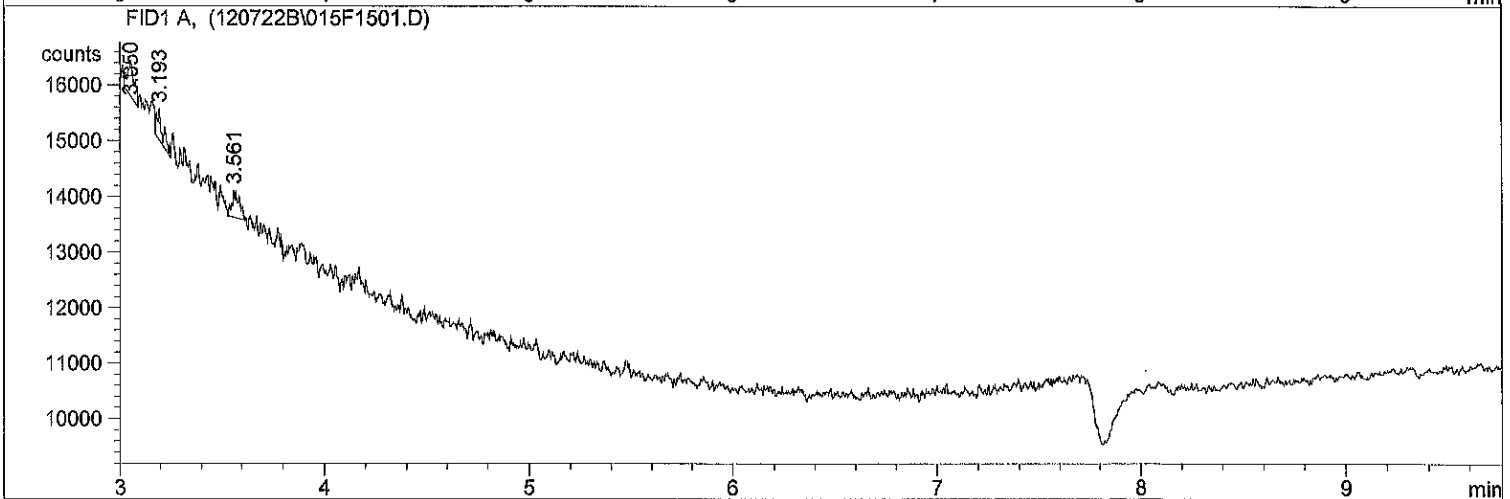
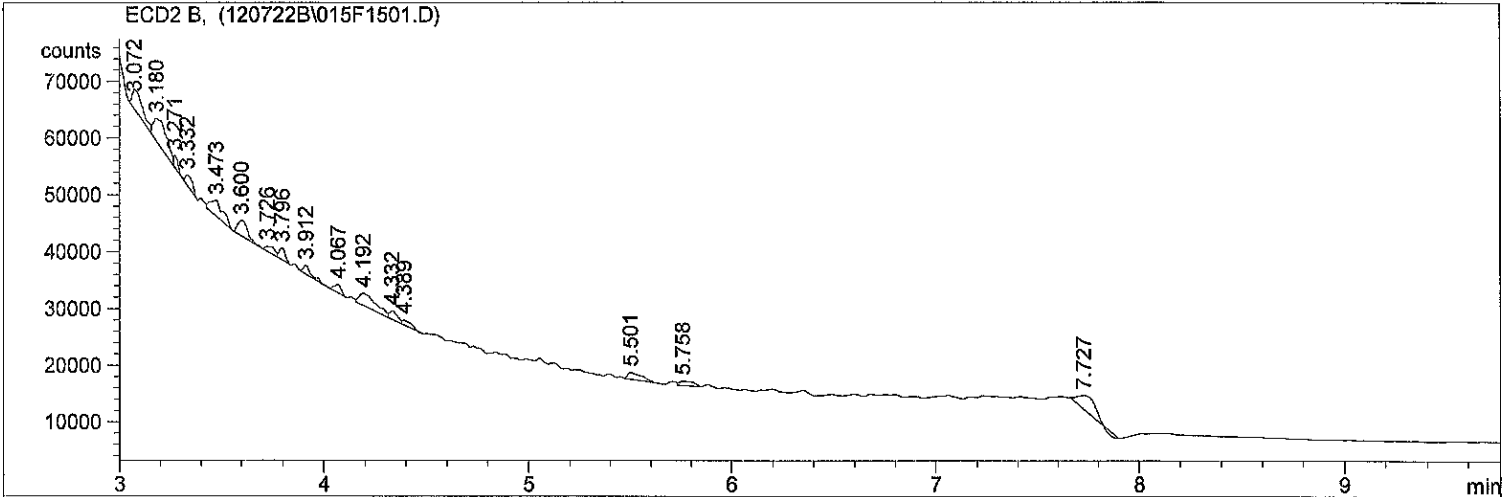
*** End of Report ***

=====
Injection Date : 12/7/2022 9:10:46 PM Seq. Line : 14
Sample Name : 22L0136 11 Location : Vial 14
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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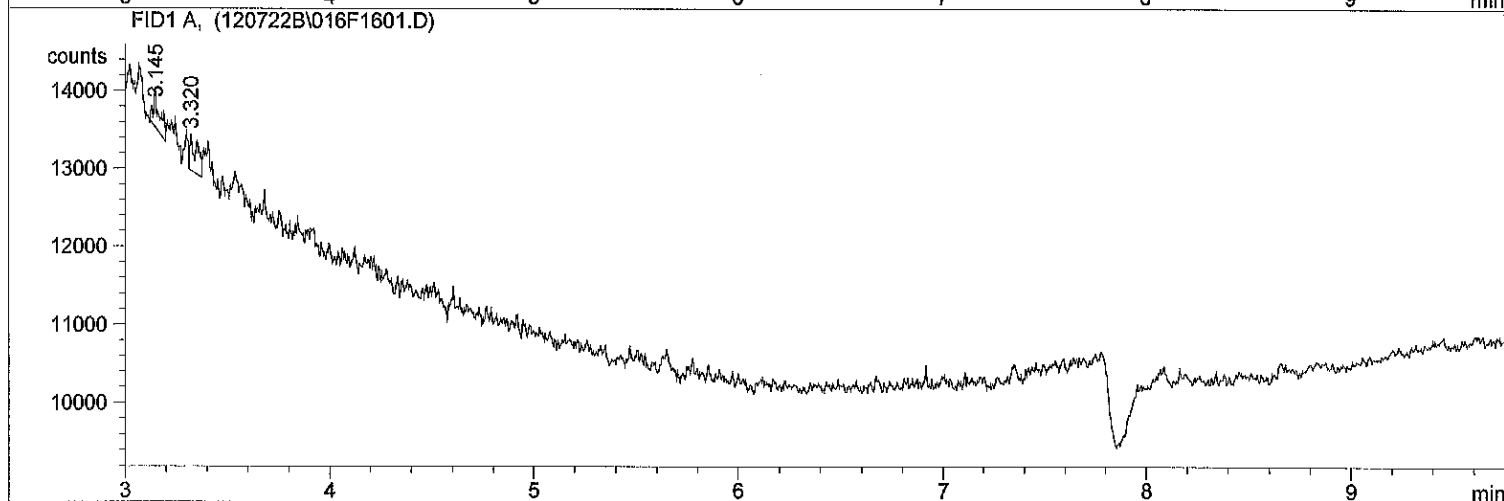
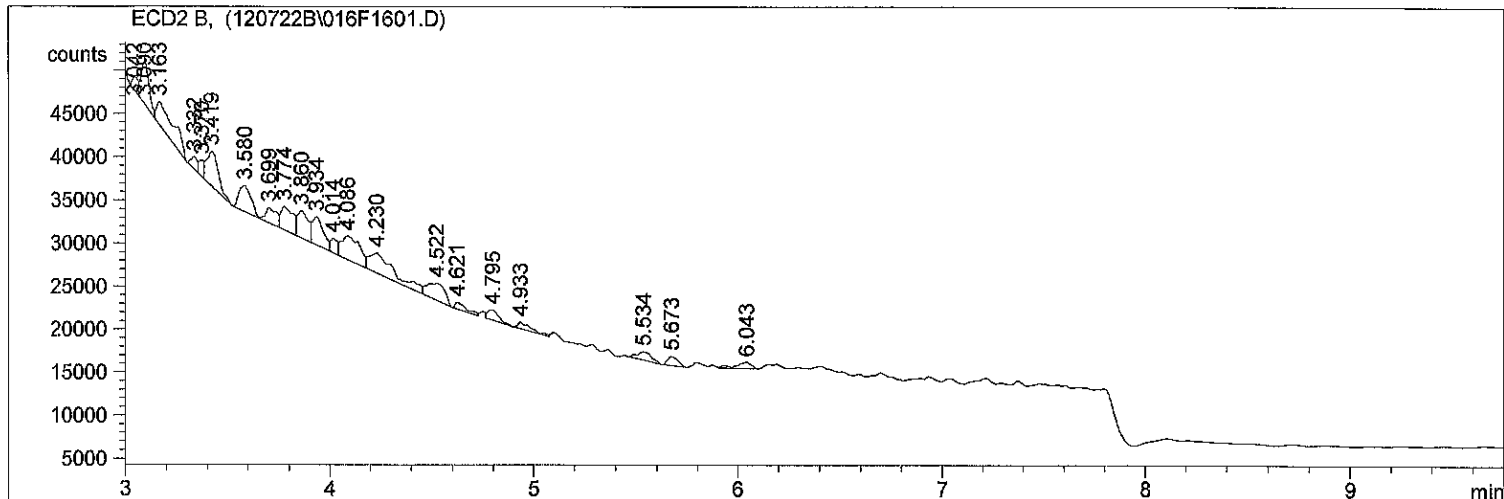
*** End of Report ***

=====
Injection Date : 12/7/2022 9:24:35 PM Seq. Line : 15
Sample Name : 22L0136 12 Location : Vial 15
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



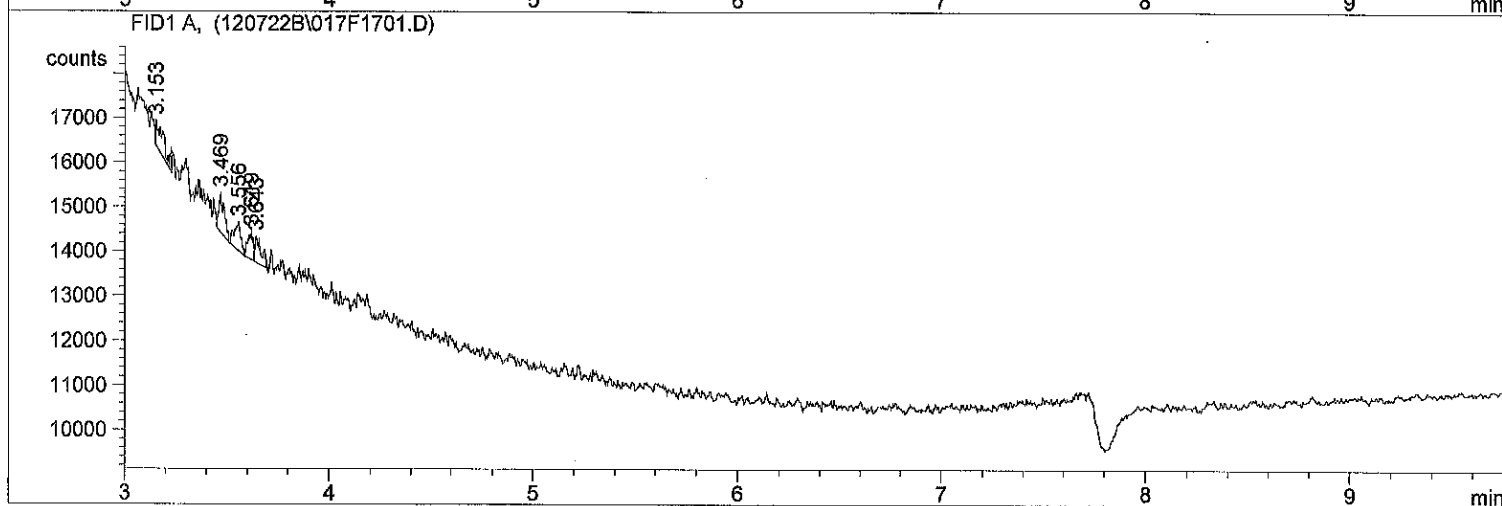
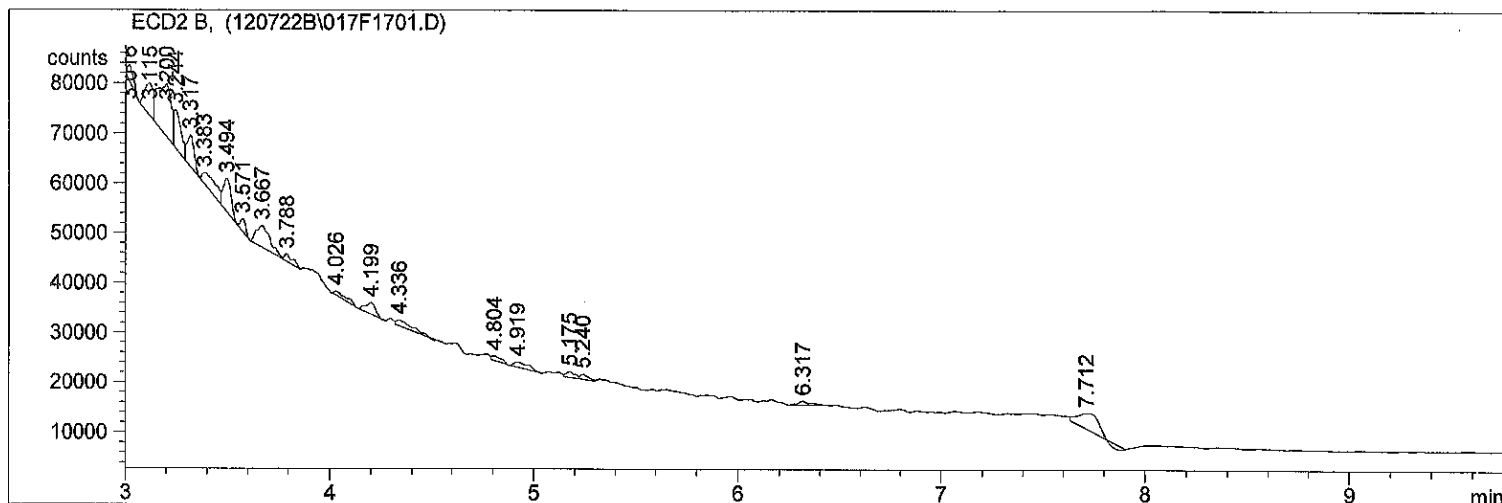
*** End of Report ***

=====
Injection Date : 12/7/2022 9:37:40 PM Seq. Line : 16
Sample Name : 22L0136 13 Location : Vial 16
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***

=====
Injection Date : 12/7/2022 9:52:49 PM Seq. Line : 17
Sample Name : 22L0136 14 Location : Vial 17
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl
Sequence File : C:\HPCHEM\1\SEQUENCE\120722BS.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
=====



*** End of Report ***



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0190

Cleanup Type: Sulfur

Cleanup Method: EPA 3660B Sulfur Cleanup - uL

Analysis: EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/15/2022	
LDW22-SS773	22L0104-01	12172211ECD7.D	12/15/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/15/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/15/2022	
LDW22-SS774	22L0104-02	12172212ECD7.D	12/15/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/15/2022	



CLEANUP BENCH SHEET

CKL0190

Printed: 12/16/2022 2:56:52PM

Matrix: Solid Cleanup using: Organics - EPA 360B Sulfur Cleanup - uL

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
BK0190-BLK1	-	Blank	-	2.5	2.5	-	12/15/2022	NRB	
BK0190-BS1	-	LCS	-	2.5	2.5	-	12/15/2022	NRB	
BK0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/15/2022	NRB	
BK0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/15/2022	NRB	
BK0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/15/2022	NRB	
BK0190-SRM1	-	Reference	-	2.5	2.5	-	12/15/2022	NRB	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0191

Cleanup Type: Sulfuric Acid

Cleanup Method: EPA 3665 Sulfuric Acid Cleanup - uL

Analysis: EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS774	22L0104-02	12172212ECD7.D	12/15/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/15/2022	
LDW22-SS773	22L0104-01	12172211ECD7.D	12/15/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/15/2022	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/15/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/15/2022	



CLEANUP BENCH SHEET

CKL0191

Printed: 12/16/2022 2:57:49PM

Matrix: Solid Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/15/2022	NRB	
BKL0190-BLK1	-	Blank	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BS1	-	LCS	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/15/2022	NRB	
BKL0190-SRM1	-	Reference	-	2.5	2.5	-	12/15/2022	NRB	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Cleanup Batch: CKL0192

Cleanup Type: Silica Gel

Cleanup Method: EPA 3660C Silica Gel Cleanup - uL

Analysis: EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS773	22L0104-01	12172211ECD7.D	12/16/2022	
LDW22-SS774	22L0104-02	12172212ECD7.D	12/16/2022	
LCS	BKL0190-BS1	12172206ECD7.D	12/16/2022	
Reference	BKL0190-SRM1	12172208ECD7.D	12/16/2022	
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12/16/2022	
Blank	BKL0190-BLK1	12172205ECD7.D	12/16/2022	



CLEANUP BENCH SHEET

CKL0192

Printed: 12/16/2022 2:58:20PM

Matrix: Solid Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0104-01	B	LDW22-SS773	B 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0104-02	B	LDW22-SS774	B 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-01	A	LDW22-SS823	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-02	A	LDW22-SS822	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-03	A	LDW22-SS821	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-04	A	LDW22-SS820	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-05	A	LDW22-SS819	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-06	A	LDW22-SS818	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-07	A	LDW22-SS811	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-08	A	LDW22-SS786	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-09	A	LDW22-SS766	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-10	A	LDW22-SS771	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-11	A	LDW22-SS771-FD	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
22L0136-12	A	LDW22-SS772	A 01	2.5	2.5	8082A PCB Solid 4	12/16/2022	TWC	
BKL0190-BLK1	-	Blank	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-BS1	-	LCS	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-BSD1	-	LCS Dup	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-MS1	-	Matrix Spike	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	12/16/2022	TWC	
BKL0190-SRM1	-	Reference	-	2.5	2.5	-	12/16/2022	TWC	



Form I
METHOD BLANK DATA SHEET
EPA 8082A

Blank

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BKL0190-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>12/08/22 14:38</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BKL0190</u>	Sequence:	<u>SKL0280</u>
Instrument:	<u>ECD7</u>	Column:	<u>ZB5</u>
		File ID:	<u>12172205ECD7.D</u>
		Analyzed:	<u>12/17/22 10:41</u>
		Initial/Final:	<u>12.5 g / 2.5 mL</u>
		Calibration:	<u>FL00010</u>
		Cleanups:	<u>Silica Gel, Sulfur, Sulfuric Acid</u>

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	9.02	113	40 - 126	
Tetrachlorometaxylene	8.0000	7.53	94.2	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.26	103	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	7.05	88.1	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172205ECD7.D
Data file 2: /221217.b/221217.b/12172205ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BLK1
Client ID:
Injection Date: 17-DEC-2022 10:41
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	251329	5.712	0.002	136760	37.7	35.2	6.7	Tetrachloro-m-xylene
13.906	-0.002	435505	14.134	0.000	292074	45.1	41.3	8.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470835	5.2
Hexabromobiphenyl	798898	1053859	31.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	283130	13.7
Hexabromobiphenyl	362541	497953	37.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Total PCB Area Coll (5.936 - 13.808) = 53065

Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 12724 Col2 Total PCB = 0.0 ppm*

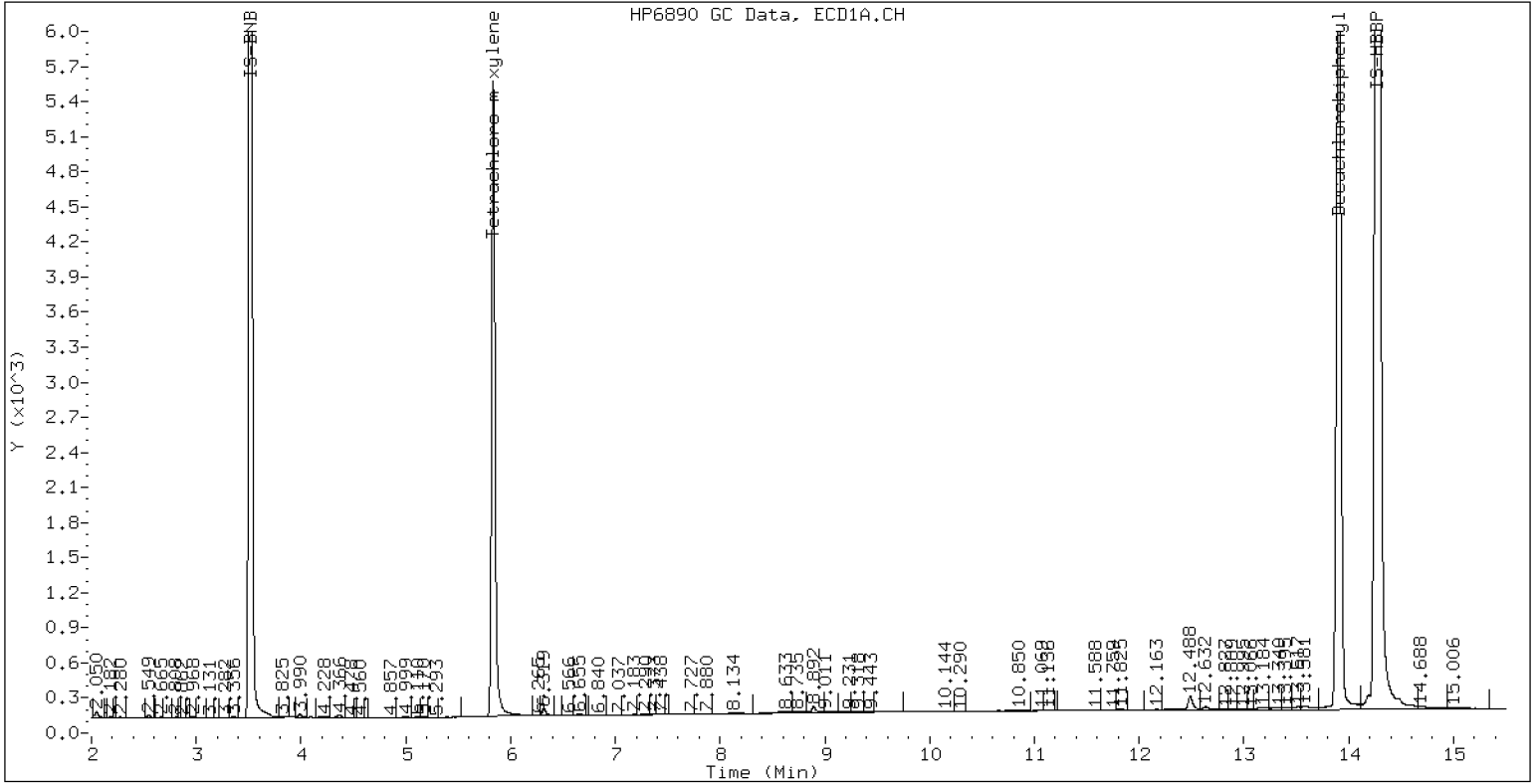
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BLK1

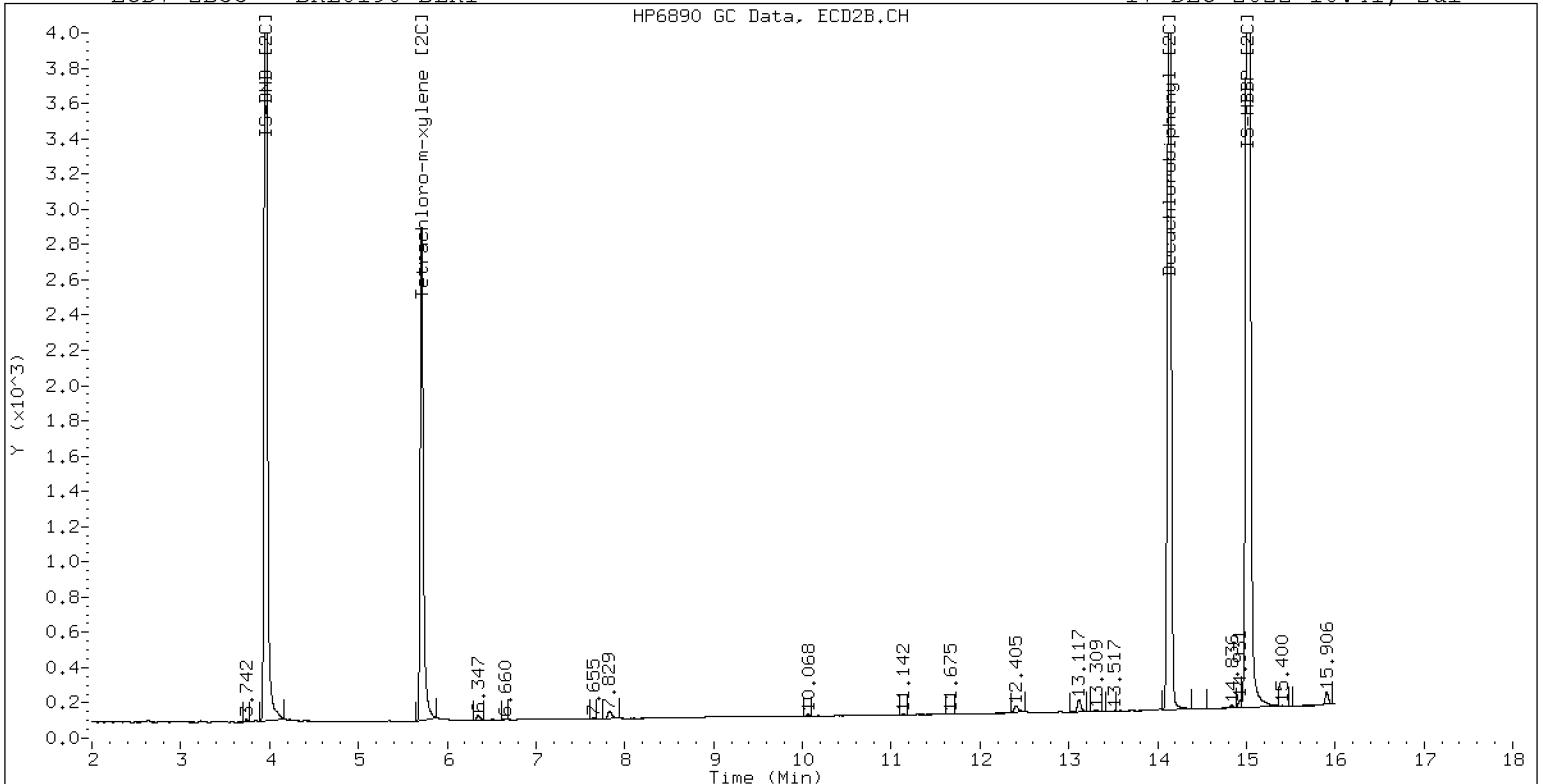
17-DEC-2022 10:41, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BLK1

17-DEC-2022 10:41, 2u1



ZB-35 Manual Integration: NO



LCS / LCS DUPLICATE RECOVERY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Analyzed: 12/17/22 11:03

Batch: BKL0190

Laboratory ID: BKL0190-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 12.5 g / 2.5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	91.1		90.4	56 - 120
Aroclor 1260	101	88.2		87.5	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	91.2		90.4	0.101	30	56 - 120
Aroclor 1260	101	90.2		89.4	2.25	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172206ECD7.D
Data file 2: /221217.b/221217.b/12172206ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BS1
Client ID:
Injection Date: 17-DEC-2022 11:03
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	270831	5.712	0.002	146218	38.2	35.4	7.5	Tetrachloro-m-xylene
13.904	-0.004	452339	14.133	-0.000	309661	42.5	41.0	3.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	500820	11.9
Hexabromobiphenyl	798898	1161515	45.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301209	20.9
Hexabromobiphenyl	362541	531830	46.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.004	75138	449.8	1	7.274	-0.000	64280	417.4
Aroclor-1016	2	7.671	-0.013	251787	466.8	2	7.868	-0.004	146586	441.3
Aroclor-1016	3	7.809	-0.009	103119	421.9	3	8.068	-0.004	59430	416.6
Aroclor-1016	4	8.422	-0.007	75264	483.0	4	8.239	-0.004	35061	467.4
Total CollAve (4 peaks):				455.4		Total Col2Ave (4 peaks):				435.7 RPD = 4
Corrected Ave (3 peaks):				446.2		Corrected Ave (3 peaks):				425.1 RPD = 5
Aroclor-1221	1	4.760	-0.000	549	13.3	1	4.990	0.002	256	10.1
Aroclor-1221	2	6.155	-0.004	9925	136.1	2	6.321	-0.000	6397	132.0
Aroclor-1221	3	6.406	-0.003	48525	288.4	3	6.643	-0.002	28105	344.7
Total CollAve (3 peaks):				145.9		Total Col2Ave (3 peaks):				162.3 RPD = 11
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.760	-0.001	549	22.0	1	4.990	0.000	256	17.5
Aroclor-1232	2	6.155	-0.004	9925	188.6	2	7.274	-0.003	64280	859.4
Aroclor-1232	3	7.671	-0.012	251787	1065.3	3	7.868	-0.008	146586	1002.4
Aroclor-1232	4	8.595	-0.010	97028	967.6	4	8.729	-0.005	44612	1125.2
Total CollAve (4 peaks):				560.9		Total Col2Ave (4 peaks):				751.1 RPD = 29
Corrected Ave (3 peaks):				392.7		Corrected Ave (3 peaks):				626.4 RPD = 46*
Aroclor-1242	1	7.290	-0.005	75138	529.3	1	7.274	-0.001	64280	504.2
Aroclor-1242	2	7.671	-0.014	251787	558.6	2	7.868	-0.005	146586	541.7
Aroclor-1242	3	8.422	-0.008	75264	580.4	3	9.169	-0.006	8218	94.1
Aroclor-1242	4	9.010	-0.021	87669	325.6	4	9.593	-0.005	4314	41.1
Total CollAve (4 peaks):				498.5		Total Col2Ave (4 peaks):				295.3 RPD = 51*
Corrected Ave (3 peaks):				471.2		Corrected Ave (3 peaks):				213.2 RPD = 75*
Aroclor-1248	1	8.422	-0.006	75264	349.5	1	8.323	-0.002	43711	355.2
Aroclor-1248	2	8.595	-0.009	97028	352.9	2	8.729	-0.001	44612	344.7
Aroclor-1248	3	9.010	-0.012	87669	177.3	3	9.169	-0.007	8218	52.2
Aroclor-1248	4	9.314	0.003	79772	329.2	4	9.593	-0.005	4314	23.3
Total CollAve (4 peaks):				302.2		Total Col2Ave (4 peaks):				193.9 RPD = 44*
Corrected Ave (3 peaks):				285.3		Corrected Ave (3 peaks):				140.1 RPD = 68*
Aroclor-1254	1	9.314	-0.007	79772	180.9	1	9.463	-0.001	37949	195.4
Aroclor-1254	2	---			0.0	2	9.982	0.002	8266	52.9
Aroclor-1254	3	9.682	-0.012	15298	54.9	3	10.159	0.025	85546	254.9
Aroclor-1254	4	9.820	-0.011	44838	82.6	4	10.384	0.002	110261	317.2
Aroclor-1254	5	10.134	-0.055	211547	568.5	5	10.580	0.000	147232	878.3
Total CollAve (4 peaks):				221.7		Total Col2Ave (5 peaks):				339.8 RPD = 42*
Corrected Ave (3 peaks):				106.1		Corrected Ave (4 peaks):				205.1 RPD = 64*
Aroclor-1260	1	11.057	-0.005	178543	422.3	1	11.666	-0.001	115753	412.3
Aroclor-1260	2	11.374	-0.004	189583	433.5	2	11.929	-0.001	285634	405.5
Aroclor-1260	3	11.746	-0.006	496686	432.3	3	12.449	-0.000	73366	391.1
Aroclor-1260	4	12.150	-0.008	269761	461.0	4	12.514	0.000	199346	424.5
Aroclor-1260	5	12.256	-0.005	108888	454.6	NS	---			----
Total CollAve (5 peaks):				440.8		Total Col2Ave (4 peaks):				408.4 RPD = 8
Corrected Ave (4 peaks):				435.7		Corrected Ave (3 peaks):				403.0 RPD = 8
Aroclor-1262	1	10.839	-0.009	355856	916.2	1	11.213	-0.005	106034	262.2
Aroclor-1262	2	12.256	-0.006	108888	180.3	2	11.666	-0.005	115753	330.5
Aroclor-1262	3	12.331	-0.006	131042	203.2	3	12.449	-0.003	73366	189.9
Aroclor-1262	4	12.999	-0.006	121717	235.2	4	12.514	-0.006	199346	329.4
Total CollAve (4 peaks):				383.7		Total Col2Ave (4 peaks):				278.0 RPD = 32
Corrected Ave (3 peaks):				206.2		Corrected Ave (3 peaks):				260.5 RPD = 23
Aroclor-1268	1	12.256	-0.006	108888	67.0	1	12.449	-0.001	73366	73.1
Aroclor-1268	2	12.331	-0.004	131042	82.4	2	12.514	-0.004	199346	193.7
Aroclor-1268	3	12.738	0.021	58795	45.1	3	12.905	-0.004	3231	8.5
Aroclor-1268	4	13.500	-0.005	38418	9.7	4	13.721	-0.005	23043	8.4
Total CollAve (4 peaks):				51.1		Total Col2Ave (4 peaks):				70.9 RPD = 33

Corrected Ave (3 peaks): 40.6 Corrected Ave (3 peaks): 30.0 RPD = 30

Total PCB Area Col1 (5.936 - 13.808) = 4943913 Col1 Total PCB = 0.9 ppm*
Total PCB Area Col2 (5.936 - 13.808) = 2717436 Col2 Total PCB = 1.3 ppm*

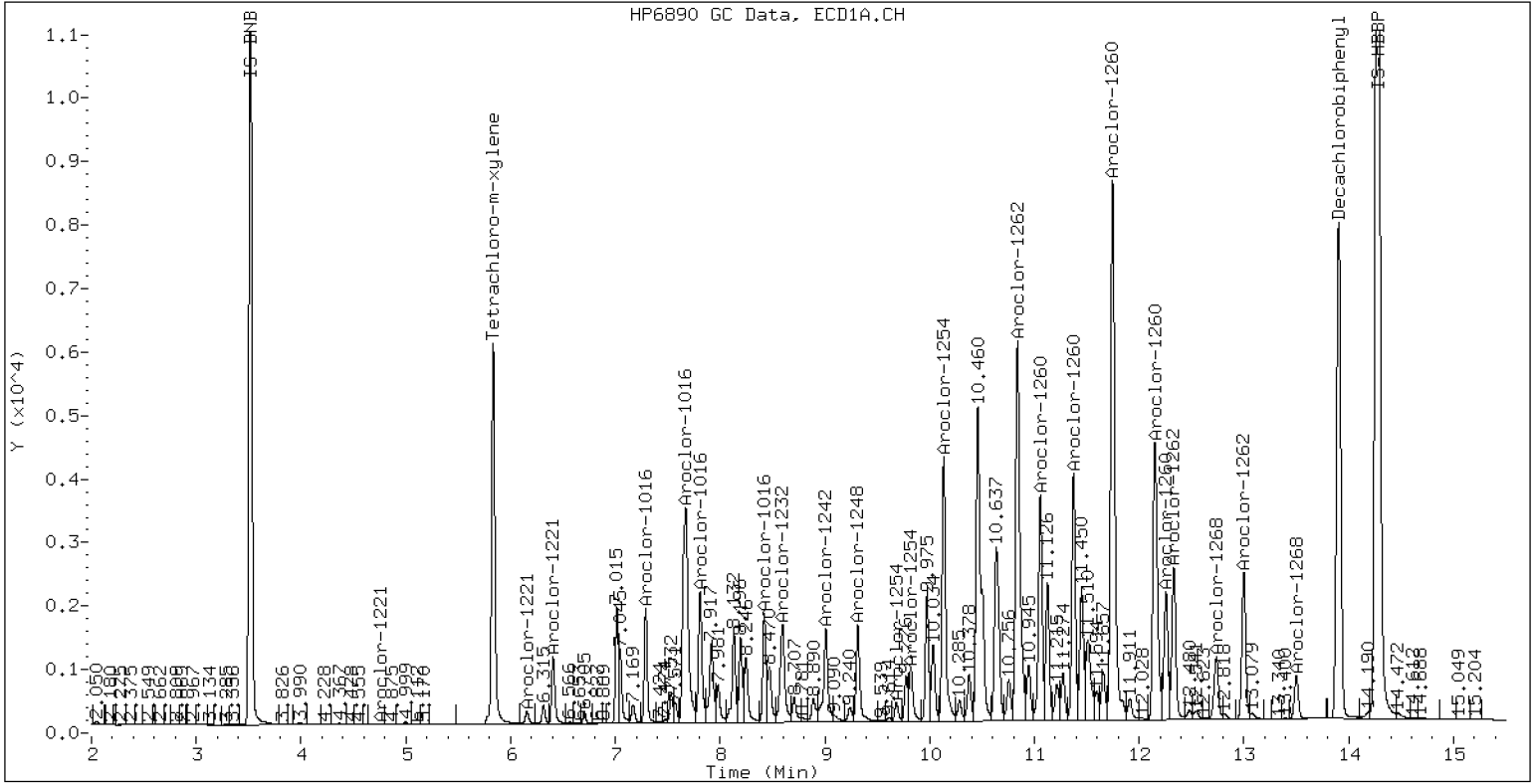
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BS1

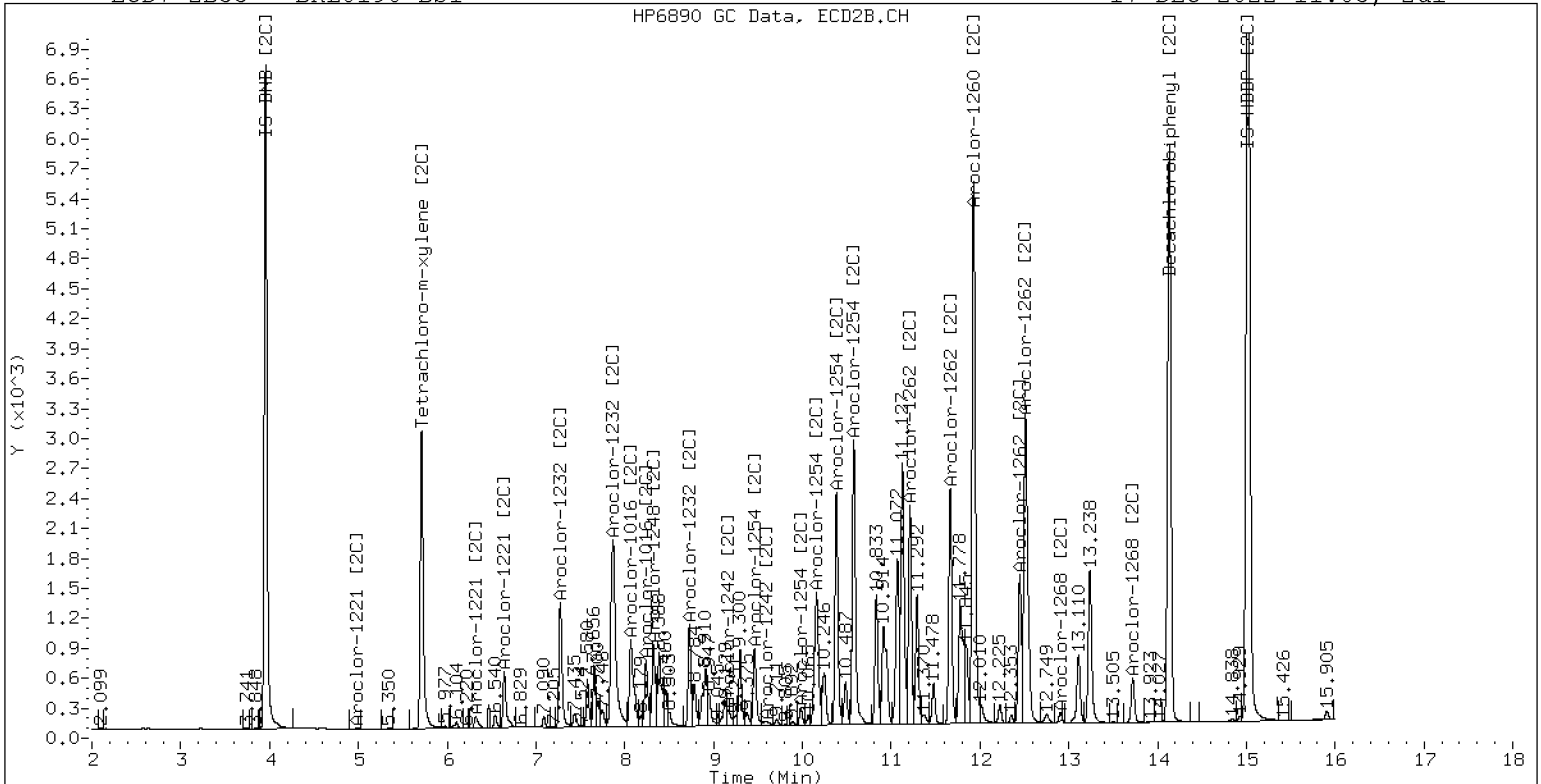
17-DEC-2022 11:03, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BS1

17-DEC-2022 11:03, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172207ECD7.D
Data file 2: /221217.b/221217.b/12172207ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-BSD1
Client ID:
Injection Date: 17-DEC-2022 11:24
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.833	-0.003	256803	5.710	-0.001	138790	36.0	33.3	7.7	Tetrachloro-m-xylene
13.906	-0.002	458515	14.134	0.001	313731	42.3	40.6	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	503514	12.5
Hexabromobiphenyl	798898	1181863	47.9
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	303797	22.0
Hexabromobiphenyl	362541	543761	50.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.289	-0.006	77389	460.8	1	7.273	-0.001	62648	403.3	
Aroclor-1016	2	7.671	-0.013	251968	464.7	2	7.869	-0.004	143811	429.3	
Aroclor-1016	3	7.808	-0.009	103977	423.1	3	8.068	-0.004	58148	404.2	
Aroclor-1016	4	8.421	-0.008	74380	474.8	4	8.239	-0.004	34236	452.6	
Total CollAve (4 peaks):				455.8	Total Col2Ave (4 peaks):				422.3	RPD = 8	
Corrected Ave (3 peaks):				449.5	Corrected Ave (3 peaks):				412.3	RPD = 9	
Aroclor-1221	1	4.758	-0.002	431	10.4	1	4.990	0.003	268	10.5	
Aroclor-1221	2	6.154	-0.004	9300	126.8	2	6.320	-0.002	7630	156.1	
Aroclor-1221	3	6.405	-0.004	47693	281.9	3	6.642	-0.003	27881	339.1	
Total CollAve (3 peaks):				139.7	Total Col2Ave (3 peaks):				168.6	RPD = 19	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						
Aroclor-1232	1	4.758	-0.003	431	17.2	1	4.990	0.000	268	18.1	
Aroclor-1232	2	6.154	-0.005	9300	175.8	2	7.273	-0.004	62648	830.4	
Aroclor-1232	3	7.671	-0.012	251968	1060.3	3	7.869	-0.008	143811	975.1	
Aroclor-1232	4	8.595	-0.010	97701	969.1	4	8.728	-0.006	43580	1089.8	
Total CollAve (4 peaks):				555.6	Total Col2Ave (4 peaks):				728.4	RPD = 27	
Corrected Ave (3 peaks):				387.3	Corrected Ave (3 peaks):				607.9	RPD = 44*	
Aroclor-1242	1	7.289	-0.006	77389	542.3	1	7.273	-0.001	62648	487.2	
Aroclor-1242	2	7.671	-0.014	251968	556.0	2	7.869	-0.004	143811	526.9	
Aroclor-1242	3	8.421	-0.008	74380	570.5	3	9.170	-0.005	8015	91.0	
Aroclor-1242	4	9.010	-0.021	105906	391.2	4	9.594	-0.004	4332	40.9	
Total CollAve (4 peaks):				515.0	Total Col2Ave (4 peaks):				286.5	RPD = 57*	
Corrected Ave (3 peaks):				496.5	Corrected Ave (3 peaks):				206.4	RPD = 83*	
Aroclor-1248	1	8.421	-0.006	74380	343.6	1	8.322	-0.002	43073	347.1	
Aroclor-1248	2	8.595	-0.009	97701	353.5	2	8.728	-0.002	43580	333.9	
Aroclor-1248	3	9.010	-0.012	105906	213.0	3	9.170	-0.006	8015	50.5	
Aroclor-1248	4	9.315	0.004	81357	334.0	4	9.594	-0.004	4332	23.2	
Total CollAve (4 peaks):				311.0	Total Col2Ave (4 peaks):				188.7	RPD = 49*	
Corrected Ave (3 peaks):				296.8	Corrected Ave (3 peaks):				135.9	RPD = 74*	
Aroclor-1254	1	9.315	-0.006	81357	183.5	1	9.463	-0.001	38689	197.5	
Aroclor-1254	2	---			0.0	2	9.984	0.003	8530	54.2	
Aroclor-1254	3	9.683	-0.011	15447	55.2	3	10.159	0.025	87648	258.9	
Aroclor-1254	4	9.821	-0.010	46020	84.3	4	10.384	0.002	113689	324.3	
Aroclor-1254	5	10.134	-0.055	221289	591.5	5	10.579	-0.000	152447	901.6	
Total CollAve (4 peaks):				228.6	Total Col2Ave (5 peaks):				347.3	RPD = 41*	
Corrected Ave (3 peaks):				107.7	Corrected Ave (4 peaks):				208.7	RPD = 64*	
Aroclor-1260	1	11.058	-0.004	186994	434.7	1	11.667	0.000	120585	420.1	
Aroclor-1260	2	11.375	-0.002	198339	445.8	2	11.931	0.001	297508	413.1	
Aroclor-1260	3	11.748	-0.004	517236	442.4	3	12.450	0.001	75332	392.8	
Aroclor-1260	4	12.152	-0.006	278891	468.4	4	12.515	0.002	206875	430.9	
Aroclor-1260	5	12.258	-0.004	112754	462.6	NS	---			----	
Total CollAve (5 peaks):				450.8	Total Col2Ave (4 peaks):				414.2	RPD = 8	
Corrected Ave (4 peaks):				446.4	Corrected Ave (3 peaks):				408.7	RPD = 9	
Aroclor-1262	1	10.840	-0.009	371861	940.9	1	11.213	-0.004	110715	267.8	
Aroclor-1262	2	12.258	-0.005	112754	183.5	2	11.667	-0.003	120585	336.7	
Aroclor-1262	3	12.333	-0.003	136411	207.9	3	12.450	-0.001	75332	190.7	
Aroclor-1262	4	13.000	-0.005	126287	239.8	4	12.515	-0.004	206875	334.4	
Total CollAve (4 peaks):				393.0	Total Col2Ave (4 peaks):				282.4	RPD = 33	
Corrected Ave (3 peaks):				210.4	Corrected Ave (3 peaks):				264.3	RPD = 23	
Aroclor-1268	1	12.258	-0.005	112754	68.2	1	12.450	0.001	75332	73.4	
Aroclor-1268	2	12.333	-0.002	136411	84.3	2	12.515	-0.002	206875	196.6	
Aroclor-1268	3	12.739	0.023	60471	45.6	3	12.907	-0.003	3427	8.8	
Aroclor-1268	4	13.502	-0.004	38114	9.4	4	13.722	-0.004	24093	8.6	
Total CollAve (4 peaks):				51.9	Total Col2Ave (4 peaks):				71.8	RPD = 32	

Corrected Ave (3 peaks): 41.1 Corrected Ave (3 peaks): 30.3 RPD = 30

Total PCB Area Col1 (5.936 - 13.808) = 5088746 Col1 Total PCB = 0.9 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2782595 Col2 Total PCB = 1.3 ppm*

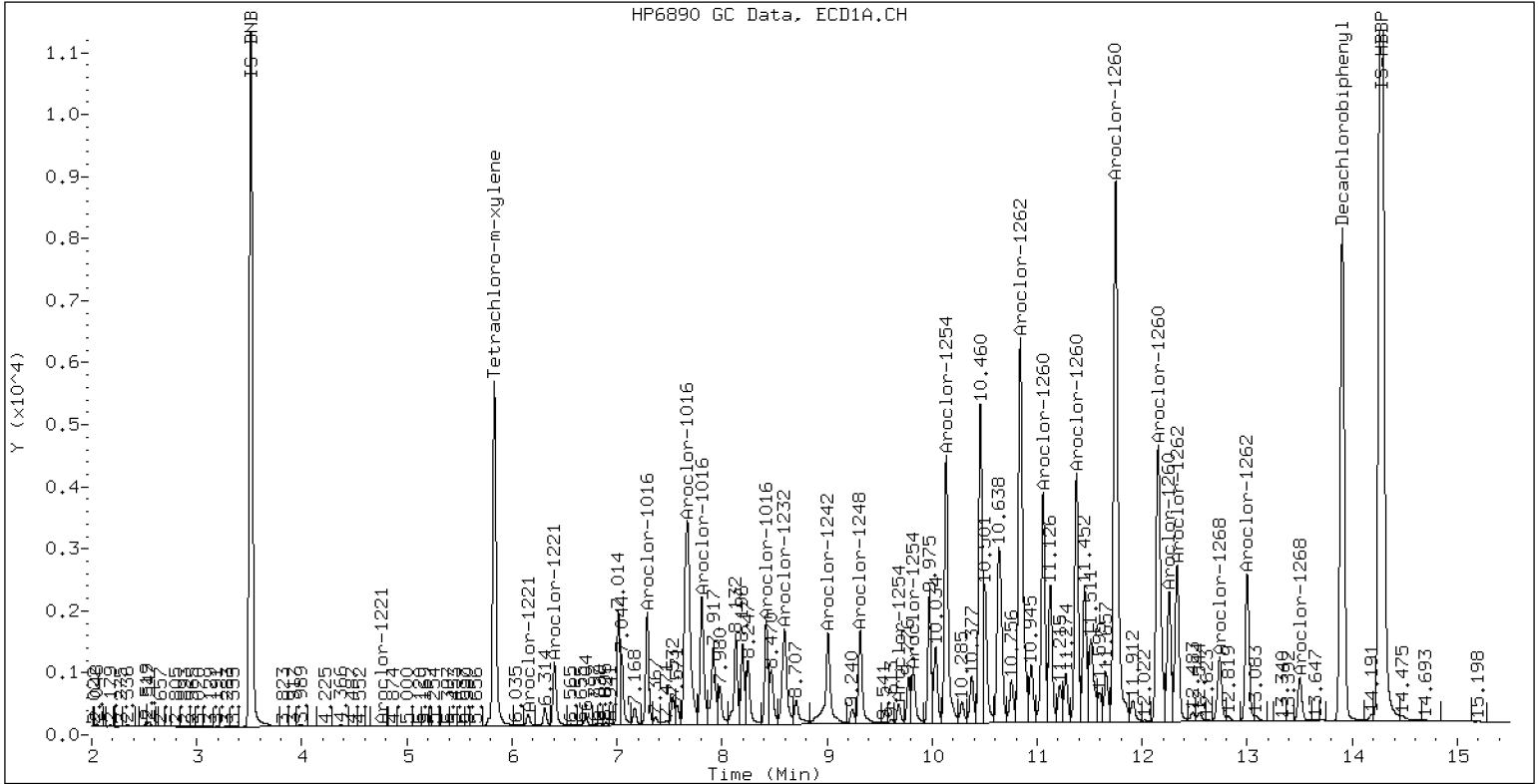
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-BSD1

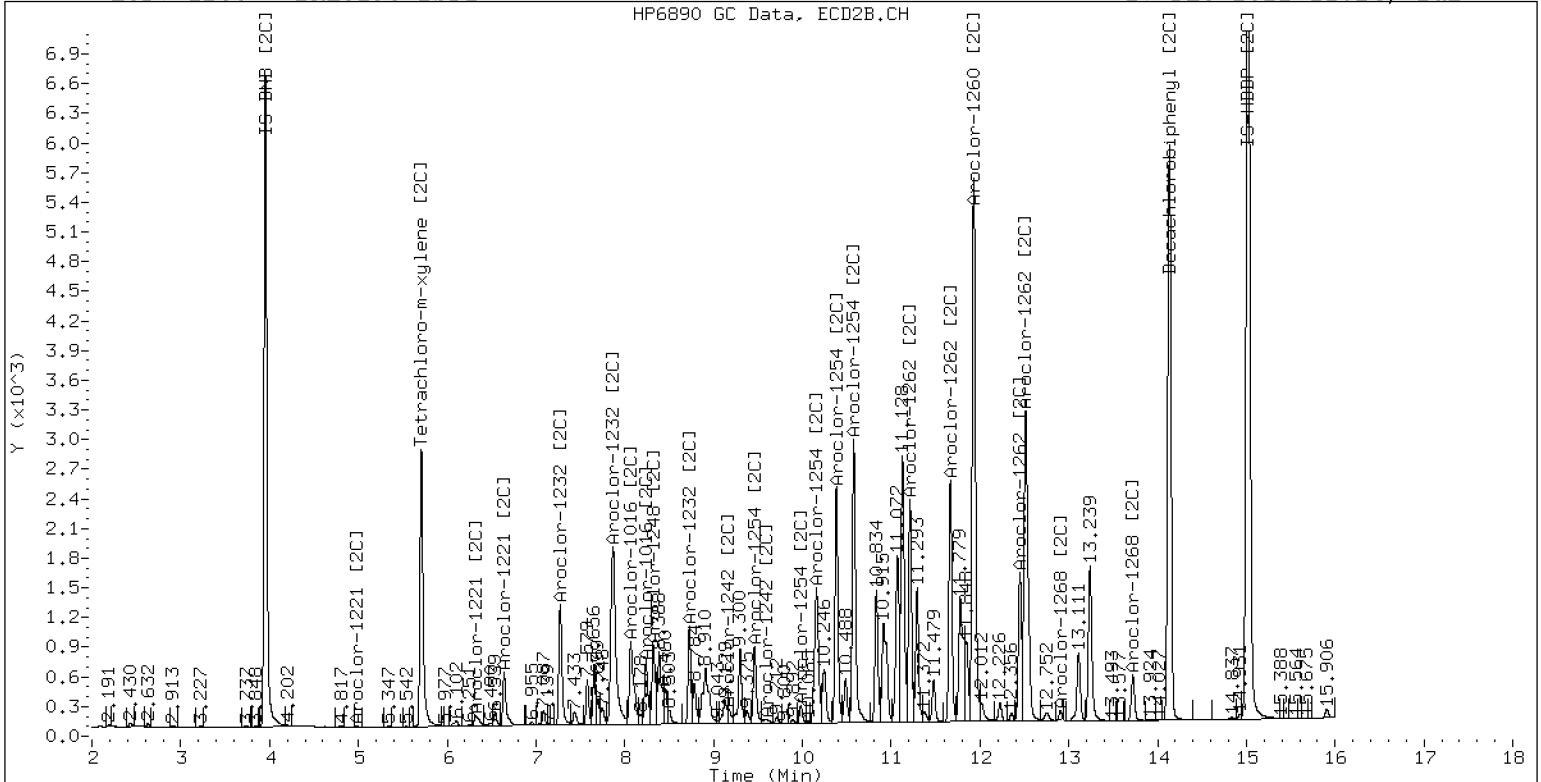
17-DEC-2022 11:24, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0190-BSD1

17-DEC-2022 11:24, 2u1



ZB-35 Manual Integration: NO



STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0190-SRM1

Batch: BKL0190

Initial/Final: 2.5 g / 2.5 mL

Preparation: EPA 3546 (Microwave)

Analyzed: 12/17/2022 11:45

Standard ID: K010815

Expires: 05/17/2023

Standard Lot#: PSRM0164

Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	121	2.9	20.0		112	38 - 167
Aroclor 1260 [2C]	108.00	112	2.9	20.0		103	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172208ECD7.D
Data file 2: /221217.b/221217.b/12172208ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0190-SRM1
Client ID:
Injection Date: 17-DEC-2022 11:45
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.832	-0.004	233242	5.710	-0.001	130252	32.3	32.4	0.4	Tetrachloro-m-xylene
13.900	-0.008	272624	14.129	-0.004	217251	40.6	35.1	14.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	509622	13.8
Hexabromobiphenyl	798898	733042	-8.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292895	17.6
Hexabromobiphenyl	362541	435524	20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.258	-0.036	9256	54.4	1	7.279	0.005	4718	31.5	
Aroclor-1016	2	7.668	-0.017	8085	14.7	2	7.864	-0.008	9432	29.2	
Aroclor-1016	3	7.811	-0.006	4725	19.0	3	8.065	-0.007	1765	12.7	
Aroclor-1016	4	8.418	-0.011	11125	70.2	4	8.234	-0.010	1524	20.9	
Total CollAve (4 peaks):				39.6	Total Col2Ave (4 peaks):				23.6	RPD = 51*	
Corrected Ave (3 peaks):				29.4	Corrected Ave (3 peaks):				20.9	RPD = 34	
Aroclor-1221	1	4.764	0.004	159	3.8	1	4.972	-0.015	442	17.9	
Aroclor-1221	2	6.143	-0.016	921	12.4	2	6.363	0.042	5766	122.4	
Aroclor-1221	3	6.415	0.006	1879	11.0	3	6.659	0.014	1429	18.0	
Total CollAve (3 peaks):				9.1	Total Col2Ave (3 peaks):				52.8	RPD = 141*	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						
Aroclor-1232	1	4.764	0.002	159	6.3	1	4.972	-0.018	442	31.0	
Aroclor-1232	2	6.143	-0.017	921	17.2	2	7.279	0.002	4718	64.9	
Aroclor-1232	3	7.668	-0.016	8085	33.6	3	7.864	-0.012	9432	66.3	
Aroclor-1232	4	8.588	-0.018	8358	81.9	4	8.726	-0.008	4705	122.0	
Total CollAve (4 peaks):				34.7	Total Col2Ave (4 peaks):				71.1	RPD = 69*	
Corrected Ave (3 peaks):				19.0	Corrected Ave (3 peaks):				54.1	RPD = 96*	
Aroclor-1242	1	7.258	-0.037	9256	64.1	1	7.279	0.005	4718	38.1	
Aroclor-1242	2	7.668	-0.017	8085	17.6	2	7.864	-0.009	9432	35.8	
Aroclor-1242	3	8.418	-0.012	11125	84.3	3	9.161	-0.013	6602	77.8	
Aroclor-1242	4	9.005	-0.026	19714	71.9	4	9.553	-0.045	10068	98.7	
Total CollAve (4 peaks):				59.5	Total Col2Ave (4 peaks):				62.6	RPD = 5	
Corrected Ave (3 peaks):				51.2	Corrected Ave (3 peaks):				50.6	RPD = 1	
Aroclor-1248	1	8.418	-0.009	11125	50.8	1	8.320	-0.005	5964	49.8	
Aroclor-1248	2	8.588	-0.016	8358	29.9	2	8.726	-0.005	4705	37.4	
Aroclor-1248	3	9.005	-0.017	19714	39.2	3	9.161	-0.014	6602	43.1	
Aroclor-1248	4	9.306	-0.005	27543	111.7	4	9.553	-0.045	10068	56.0	
Total CollAve (4 peaks):				57.9	Total Col2Ave (4 peaks):				46.6	RPD = 22	
Corrected Ave (3 peaks):				39.9	Corrected Ave (3 peaks):				43.5	RPD = 8	
Aroclor-1254	1	9.306	-0.015	27543	61.4	1	9.457	-0.007	15288	81.0	
Aroclor-1254	2	9.382	-0.020	10844	62.1	2	9.975	-0.006	7451	49.1	
Aroclor-1254	3	9.677	-0.018	16639	58.7	3	10.127	-0.007	29291	89.8	
Aroclor-1254	4	9.808	-0.023	37325	67.6	4	10.377	-0.006	36847	109.0	
Aroclor-1254	5	10.128	-0.061	59694	157.6	5	10.571	-0.008	37322	229.0	
Total CollAve (5 peaks):				81.5	Total Col2Ave (5 peaks):				111.6	RPD = 31	
Corrected Ave (4 peaks):				62.5	Corrected Ave (4 peaks):				82.2	RPD = 27	
Aroclor-1260	1	11.050	-0.012	34723	130.1	1	11.660	-0.007	24528	106.7	
Aroclor-1260	2	11.363	-0.014	28467	103.2	2	11.921	-0.009	58150	100.8	
Aroclor-1260	3	11.735	-0.017	90828	125.3	3	12.440	-0.009	21126	137.5	
Aroclor-1260	4	12.136	-0.022	46451	125.8	4	12.504	-0.009	39212	102.0	
Aroclor-1260	5	12.250	-0.012	18431	121.9	NS	---			----	
Total CollAve (5 peaks):				121.3	Total Col2Ave (4 peaks):				111.7	RPD = 8	
Corrected Ave (4 peaks):				119.0	Corrected Ave (3 peaks):				103.2	RPD = 14	
Aroclor-1262	1	10.827	-0.021	79475	324.2	1	11.206	-0.011	22924	69.2	
Aroclor-1262	2	12.250	-0.013	18431	48.4	2	11.660	-0.010	24528	85.5	
Aroclor-1262	3	12.322	-0.014	22681	55.7	3	12.440	-0.012	21126	66.8	
Aroclor-1262	4	12.987	-0.018	21775	66.7	4	12.504	-0.015	39212	79.1	
Total CollAve (4 peaks):				123.7	Total Col2Ave (4 peaks):				75.2	RPD = 49*	
Corrected Ave (3 peaks):				56.9	Corrected Ave (3 peaks):				71.7	RPD = 23	
Aroclor-1268	1	12.250	-0.013	18431	18.0	1	12.440	-0.010	21126	25.7	
Aroclor-1268	2	12.322	-0.013	22681	22.6	2	12.504	-0.013	39212	46.5	
Aroclor-1268	3	12.727	0.010	11185	13.6	3	12.901	-0.008	718	2.3	
Aroclor-1268	4	13.492	-0.013	4282	1.7	4	13.715	-0.012	4586	2.0	
Total CollAve (4 peaks):				14.0	Total Col2Ave (4 peaks):				19.1	RPD = 31	

Corrected Ave (3 peaks): 11.1 Corrected Ave (3 peaks): 10.0 RPD = 10

Total PCB Area Col1 (5.936 - 13.808) = 1062611 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 661965 Col2 Total PCB = 0.3 ppm*

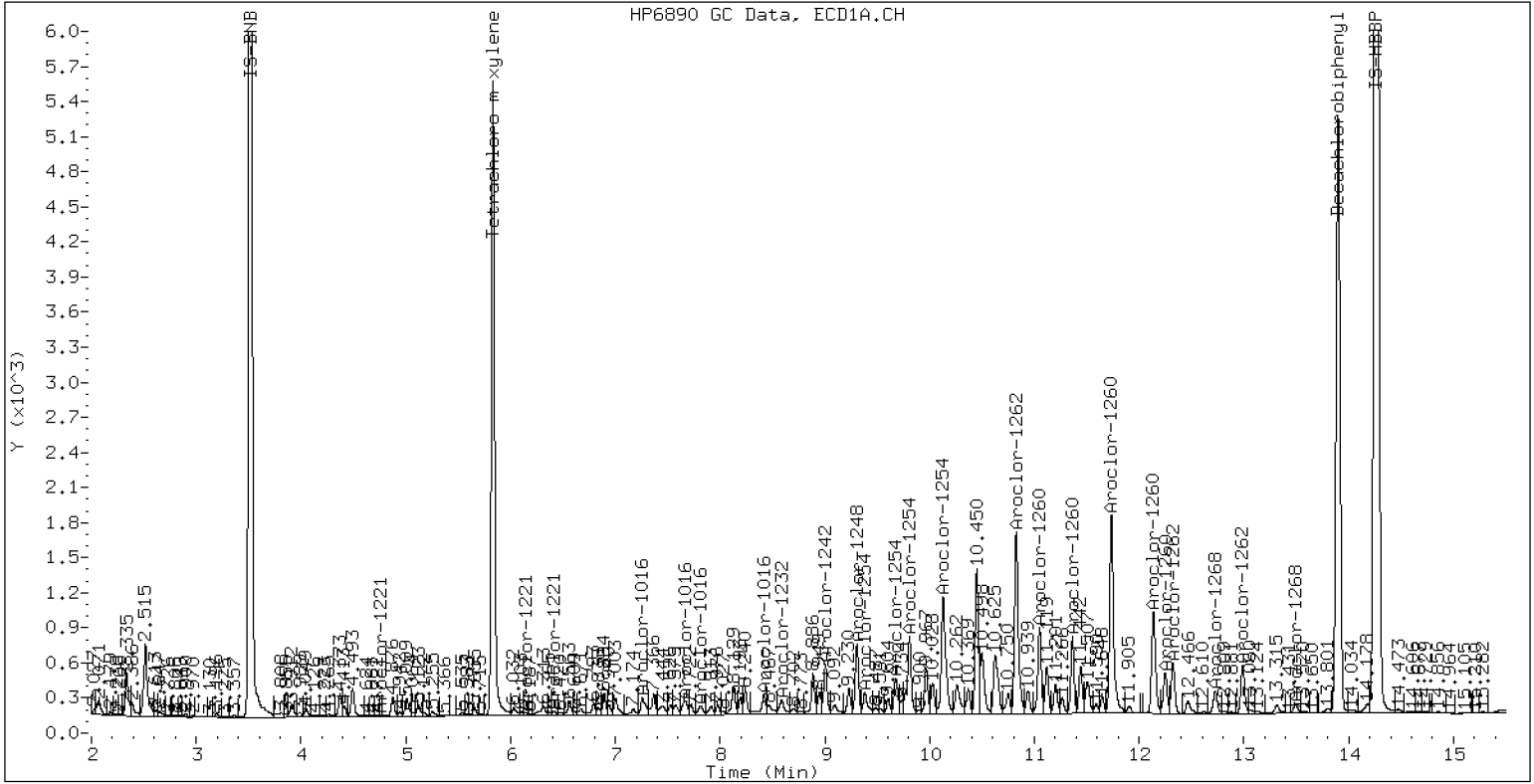
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0190-SRM1

17-DEC-2022 11:45, 2u1





INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.441976E-02				
Aroclor-1262 (4)							250	0.0356499				
Aroclor 1268									250	0.1462909		
Aroclor-1268 (1)									250	0.1119264		
Aroclor-1268 (2)									250	0.1094959		
Aroclor-1268 (3)									250	8.974437E-02		
Aroclor-1268 (4)									250	0.2739969		



INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	0.0441939	6.9			RSD (20)	
Aroclor-1016 (1)	0.026686	8.1			RSD (20)	
Aroclor-1016 (2)	8.615718E-02	5.0			RSD (20)	
Aroclor-1016 (3)	3.904252E-02	13.0			RSD (20)	
Aroclor-1016 (4)	2.488989E-02	4.4			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	0.0390342	3.8			RSD (20)	



INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.912011E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.011807E-02	3.6			RSD (20)	
Aroclor-1260 (3)	7.913511E-02	4.3			RSD (20)	
Aroclor-1260 (4)	0.0403003	3.2			RSD (20)	
Aroclor-1260 (5)	1.649739E-02	3.9			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7333327	8.6			RSD (20)	
Tetrachlorometaxylene	1.133671	3.2			RSD (20)	



INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	4.673103E-02	7.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.090297E-02	8.9			RSD (20)	
Aroclor-1016 (2) [2C]	8.821535E-02	6.9			RSD (20)	
Aroclor-1016 (3) [2C]	0.0378846	10.9			RSD (20)	
Aroclor-1016 (4) [2C]	1.992121E-02	3.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.176189E-02	6.4			RSD (20)	



INITIAL CALIBRATION DATA
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0104
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.222833E-02	7.8			RSD (20)	
Aroclor-1260 (2) [2C]	0.1059643	6.9			RSD (20)	
Aroclor-1260 (3) [2C]	2.821732E-02	3.9			RSD (20)	
Aroclor-1260 (4) [2C]	7.063759E-02	6.3			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.135818	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.096608	4.4			RSD (20)	



ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7
Calibration ID: FL00010

Element Column ID:

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022	17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022	18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022	18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022	19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022	19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022	19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022	20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022	20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022	20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022	21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022	21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022	21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022	22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022	22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022	22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022	23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022	23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022	23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022	00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022	00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022	01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022	01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022	01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022	02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022	02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022	02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022	03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022	03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022	03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022	04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022	04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022	04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022	05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022	05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022	06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022	06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022	06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022	07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022	07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022	07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022	08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022	08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022	08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022	09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022	09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022	09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022	10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
CollAve: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				

Total PCB Area Coll (5.936 - 13.808) = 14711

Coll Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 6305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032211ECD7.D
Data file 2: /221203.b/221203.b/12032211ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:19
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	255851	5.713	-0.000	137407	40.3	40.2	0.2	Tetrachloro-m-xylene
13.908	-0.001	282218	14.135	-0.001	204430	38.5	39.7	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447645	0.0
Hexabromobiphenyl	798898	798898	0.0

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	249094	0.0
Hexabromobiphenyl	362541	362541	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	37624	252.0	1	7.277	0.002	31793	249.6
Aroclor-1016	2	7.679	0.005	121929	252.9	2	7.873	0.002	68340	248.8
Aroclor-1016	3	7.813	0.003	53937	246.9	3	8.072	0.002	28420	240.9
Aroclor-1016	4	8.426	0.002	35116	252.1	4	8.243	0.002	15828	255.2
Total CollAve (4 peaks):				251.0		Total Col2Ave (4 peaks):				248.6 RPD = 1
Corrected Ave (3 peaks):				250.3		Corrected Ave (3 peaks):				246.5 RPD = 2

CalAmt %D: 0.4

CalAmt %D: -0.5

Aroclor-1260	1	11.062	0.001	73858	254.0	1	11.670	0.001	47881	250.2
Aroclor-1260	2	11.378	0.000	76426	254.1	2	11.933	0.000	122823	255.8
Aroclor-1260	3	11.752	0.002	198339	251.0	3	12.452	0.001	31682	247.8
Aroclor-1260	4	12.156	0.002	101327	251.8	4	12.518	0.001	79568	248.6
Aroclor-1260	5	12.262	0.002	41048	249.2	NS	---			----
Total CollAve (5 peaks):				252.0		Total Col2Ave (4 peaks):				250.6 RPD = 1
Corrected Ave (4 peaks):				251.5		Corrected Ave (3 peaks):				248.8 RPD = 1

CalAmt %D: 0.8

CalAmt %D: 0.2

Total PCB Area Coll (5.936 - 13.808) = 2139467 Coll Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1168134 Col2 Total PCB = 0.7 ppm*

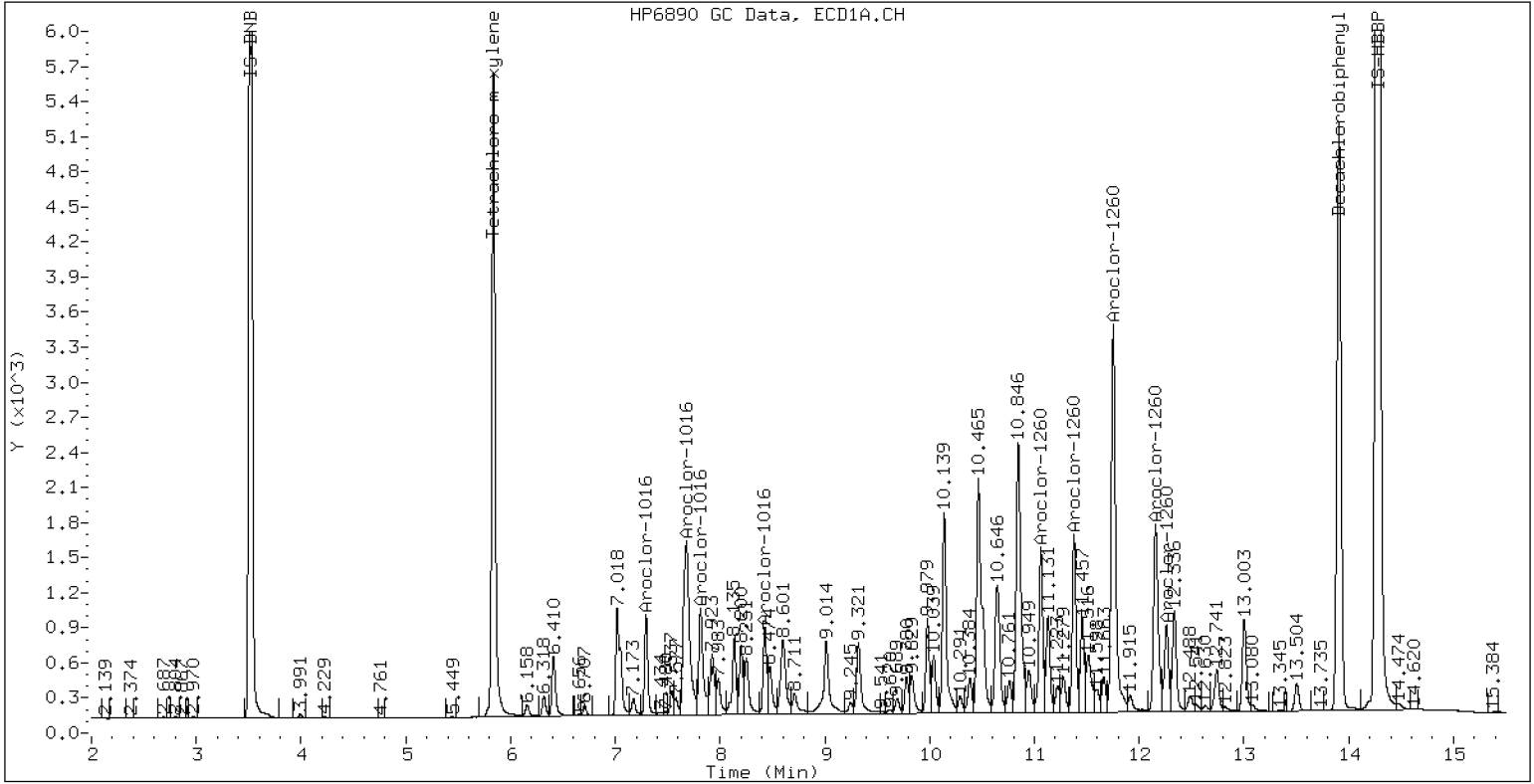
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPAR1660

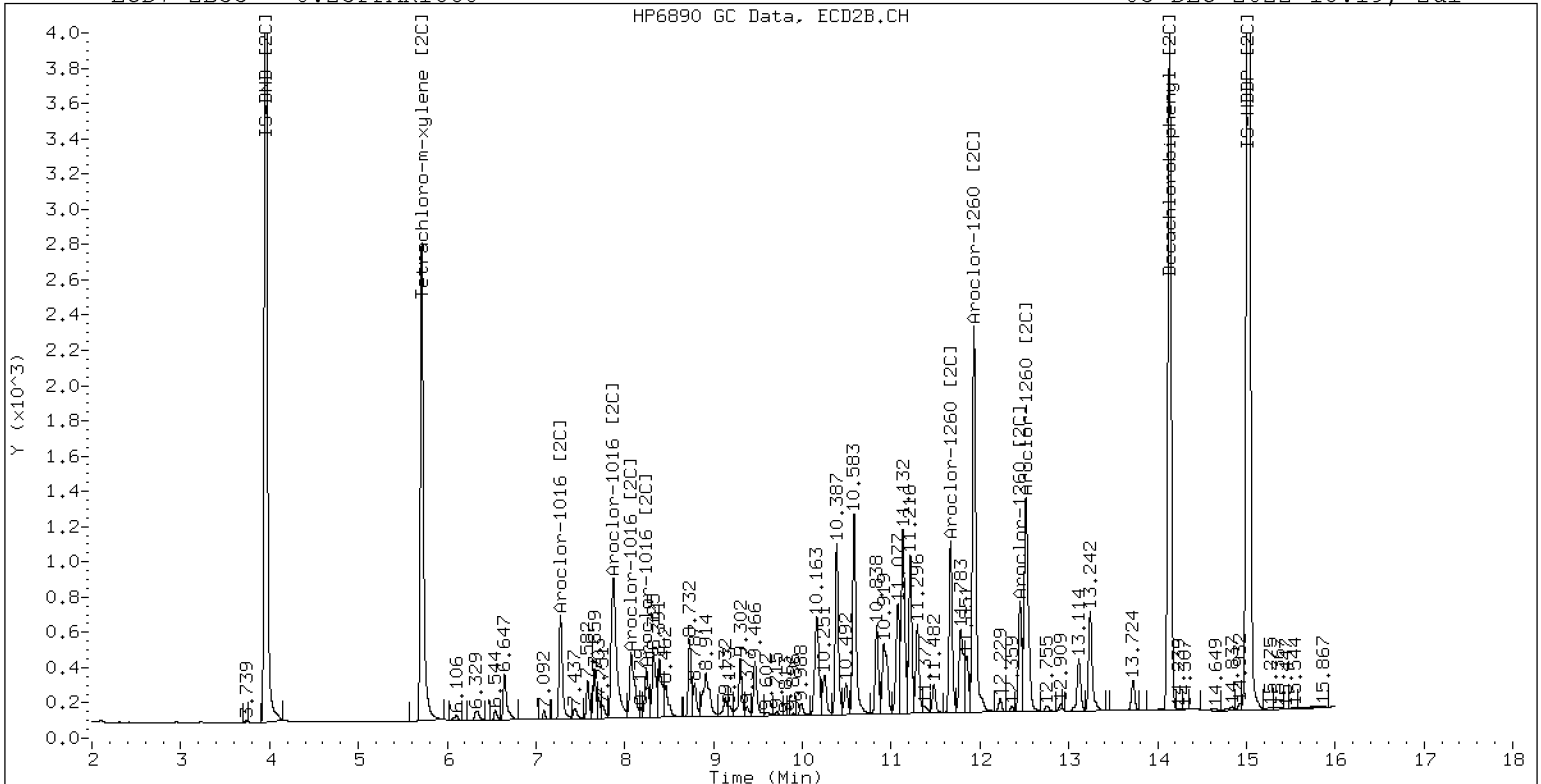
03-DEC-2022 18:19, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPAR1660

03-DEC-2022 18:19, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032212ECD7.D
Data file 2: /221203.b/221203.b/12032212ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:40
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.001	21148	5.713	-0.000	11703	3.3	3.4	2.8	Tetrachloro-m-xylene
13.907	-0.002	27903	14.135	-0.002	17860	3.7	3.4	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456831	2.1
Hexabromobiphenyl	798898	833597	4.3
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254070	2.0
Hexabromobiphenyl	362541	372232	2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.294	0.002	3234	21.2	1	7.276	0.001	2808	21.6	
Aroclor-1016	2	7.687	0.013	10166	20.7	2	7.879	0.009	5797	20.7	
Aroclor-1016	3	7.819	0.009	4988	22.4	3	8.077	0.007	2653	22.1	
Aroclor-1016	4	8.430	0.006	2807	19.7	4	8.249	0.008	1173	18.5	
Total CollAve (4 peaks):				21.0	Total Col2Ave (4 peaks):				20.7	RPD = 1	
Corrected Ave (3 peaks):				20.5	Corrected Ave (3 peaks):				20.3	RPD = 1	
CalAmt %D:				5.0	CalAmt %D:				3.6		
Aroclor-1260	1	11.066	0.004	6255	20.6	1	11.672	0.003	4216	21.5	
Aroclor-1260	2	11.382	0.004	6329	20.2	2	11.937	0.005	10262	20.8	
Aroclor-1260	3	11.758	0.008	16621	20.2	3	12.453	0.002	2734	20.8	
Aroclor-1260	4	12.162	0.008	8146	19.4	4	12.521	0.004	6997	21.3	
Aroclor-1260	5	12.264	0.004	3406	19.8	NS	---			----	
Total CollAve (5 peaks):				20.0	Total Col2Ave (4 peaks):				21.1	RPD = 5	
Corrected Ave (4 peaks):				19.9	Corrected Ave (3 peaks):				21.0	RPD = 5	
CalAmt %D:				0.2	CalAmt %D:				5.5		

Total PCB Area Col1 (5.936 - 13.808) = 188011 Col1 Total PCB = 0.0 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 100527 Col2 Total PCB = 0.1 ppm*

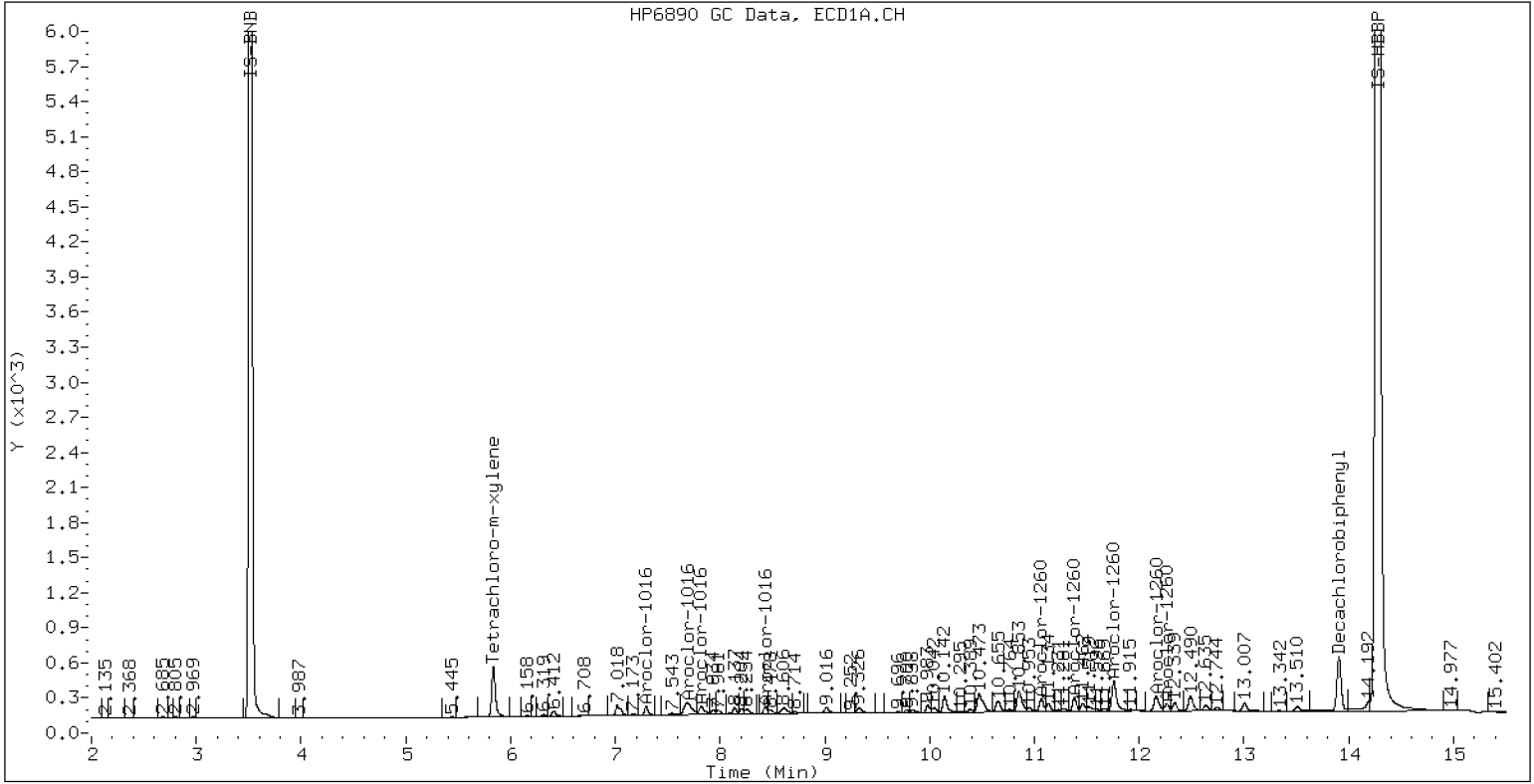
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPAR1660

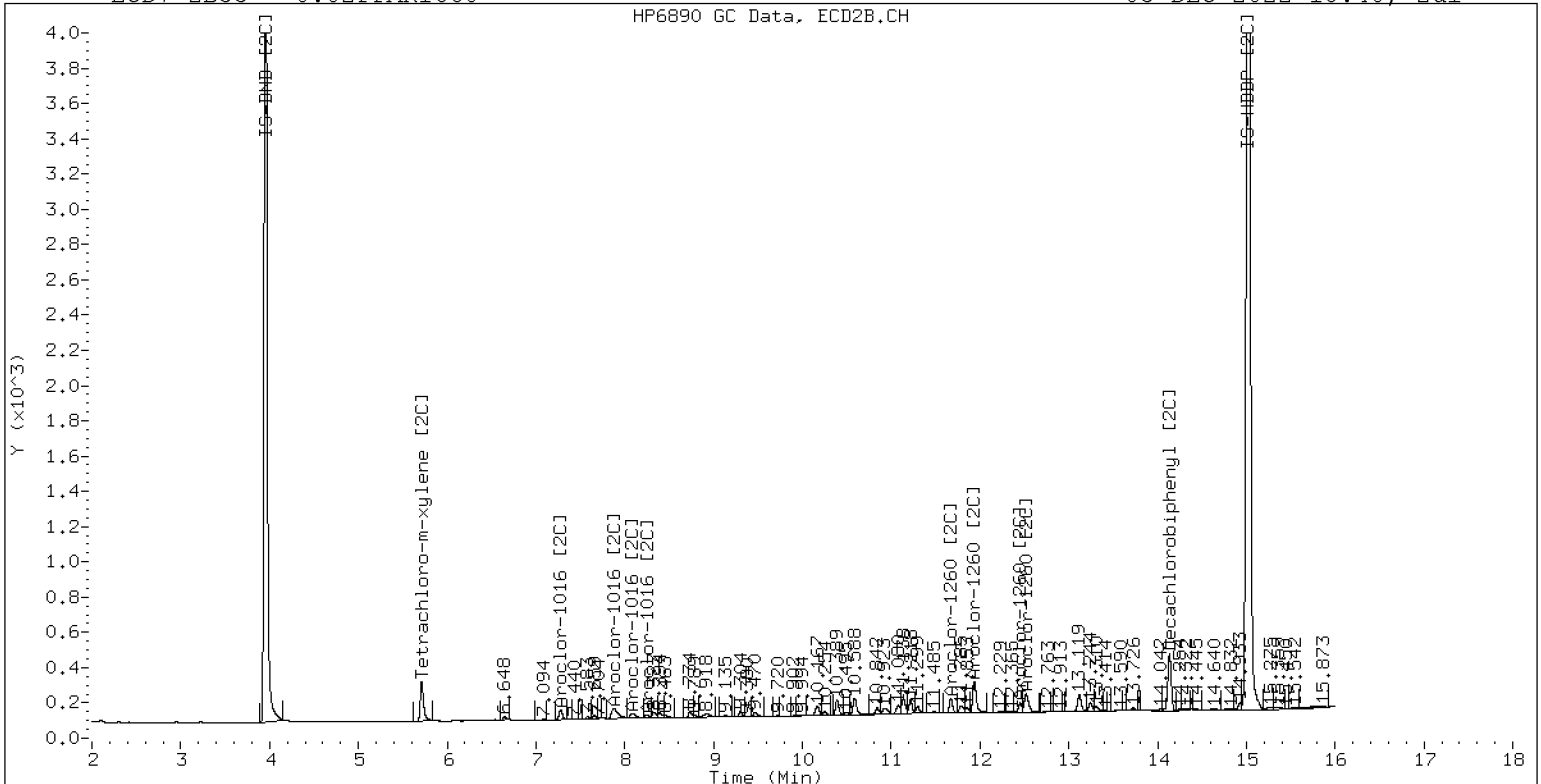
03-DEC-2022 18:40, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPAR1660

03-DEC-2022 18:40, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032213ECD7.D
 Data file 2: /221203.b/221203.b/12032213ECD7.D
 Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
 Compound Sublist: AR1660.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: 0.05PPAR1660
 Client ID:
 Injection Date: 03-DEC-2022 19:01
 Report Date: 12/05/2022 13:28
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	51078	5.713	-0.000	27008	8.0	7.8	1.5	Tetrachloro-m-xylene
13.907	-0.001	63325	14.137	-0.000	42829	8.2	8.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453269	1.3
Hexabromobiphenyl	798898	840633	5.2
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251466	1.0
Hexabromobiphenyl	362541	378380	4.4

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.294	0.002	7743	51.2	1	7.277	0.002	6704	52.1	
Aroclor-1016	2	7.686	0.012	24543	50.3	2	7.879	0.008	14768	53.3	
Aroclor-1016	3	7.818	0.008	12052	54.5	3	8.078	0.007	6672	56.0	
Aroclor-1016	4	8.429	0.005	7291	51.7	4	8.249	0.007	3185	50.9	
Total CollAve (4 peaks):				51.9	Total Col2Ave (4 peaks):				53.1	RPD = 2	
Corrected Ave (3 peaks):				51.1	Corrected Ave (3 peaks):				52.1	RPD = 2	
CalAmt %D:				3.8	CalAmt %D:				6.1		
Aroclor-1260	1	11.066	0.004	15578	50.9	1	11.673	0.003	10647	53.3	
Aroclor-1260	2	11.382	0.005	16010	50.6	2	11.937	0.004	25845	51.6	
Aroclor-1260	3	11.757	0.007	42278	50.8	3	12.454	0.002	6703	50.2	
Aroclor-1260	4	12.160	0.006	20971	49.5	4	12.520	0.004	17174	51.4	
Aroclor-1260	5	12.263	0.004	8785	50.7	NS	---			----	
Total CollAve (5 peaks):				50.5	Total Col2Ave (4 peaks):				51.6	RPD = 2	
Corrected Ave (4 peaks):				50.4	Corrected Ave (3 peaks):				51.1	RPD = 1	
CalAmt %D:				1.0	CalAmt %D:				3.3		

Total PCB Area Coll (5.936 - 13.808) = 457627 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 253240 Col2 Total PCB = 0.1 ppm*

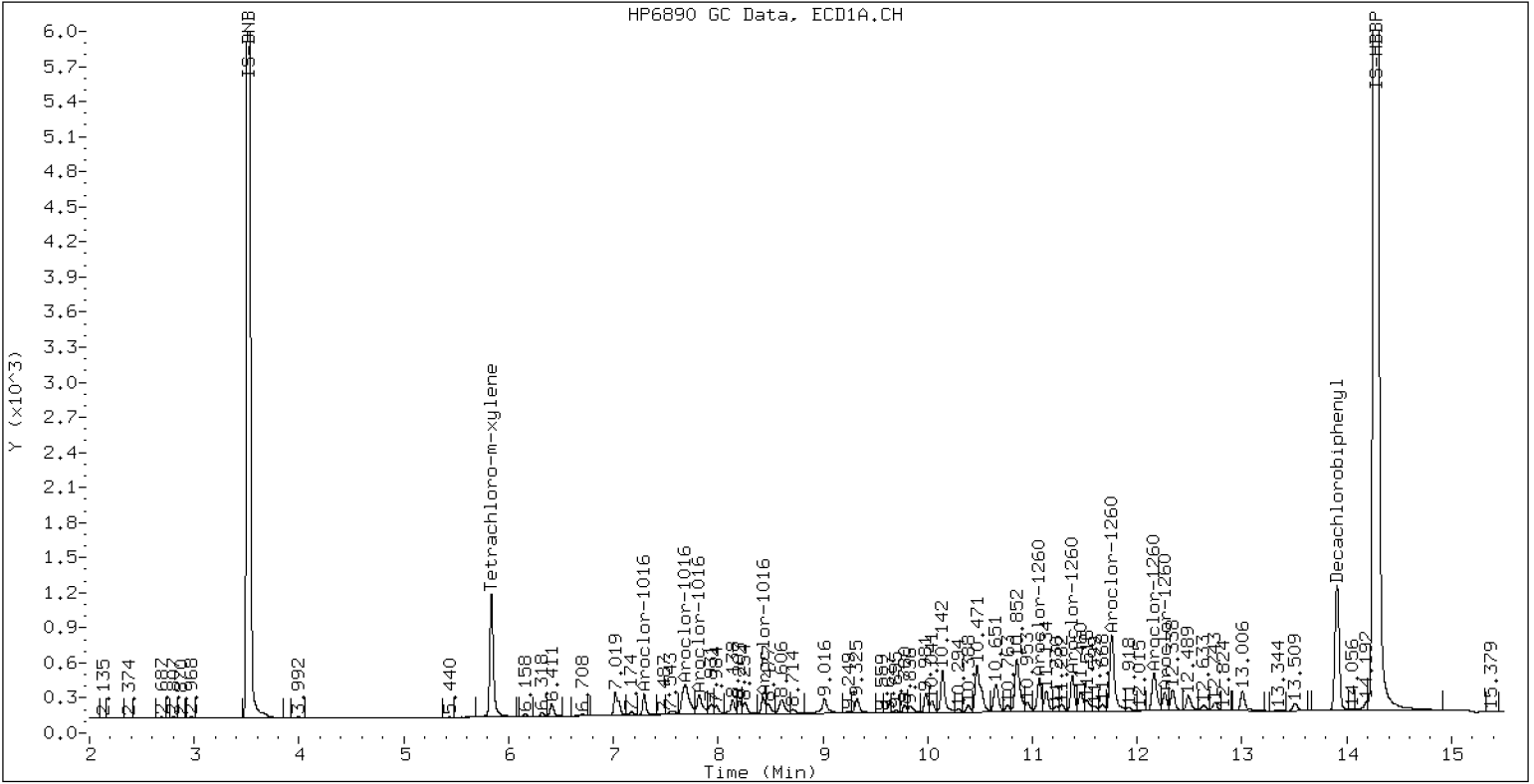
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPAR1660

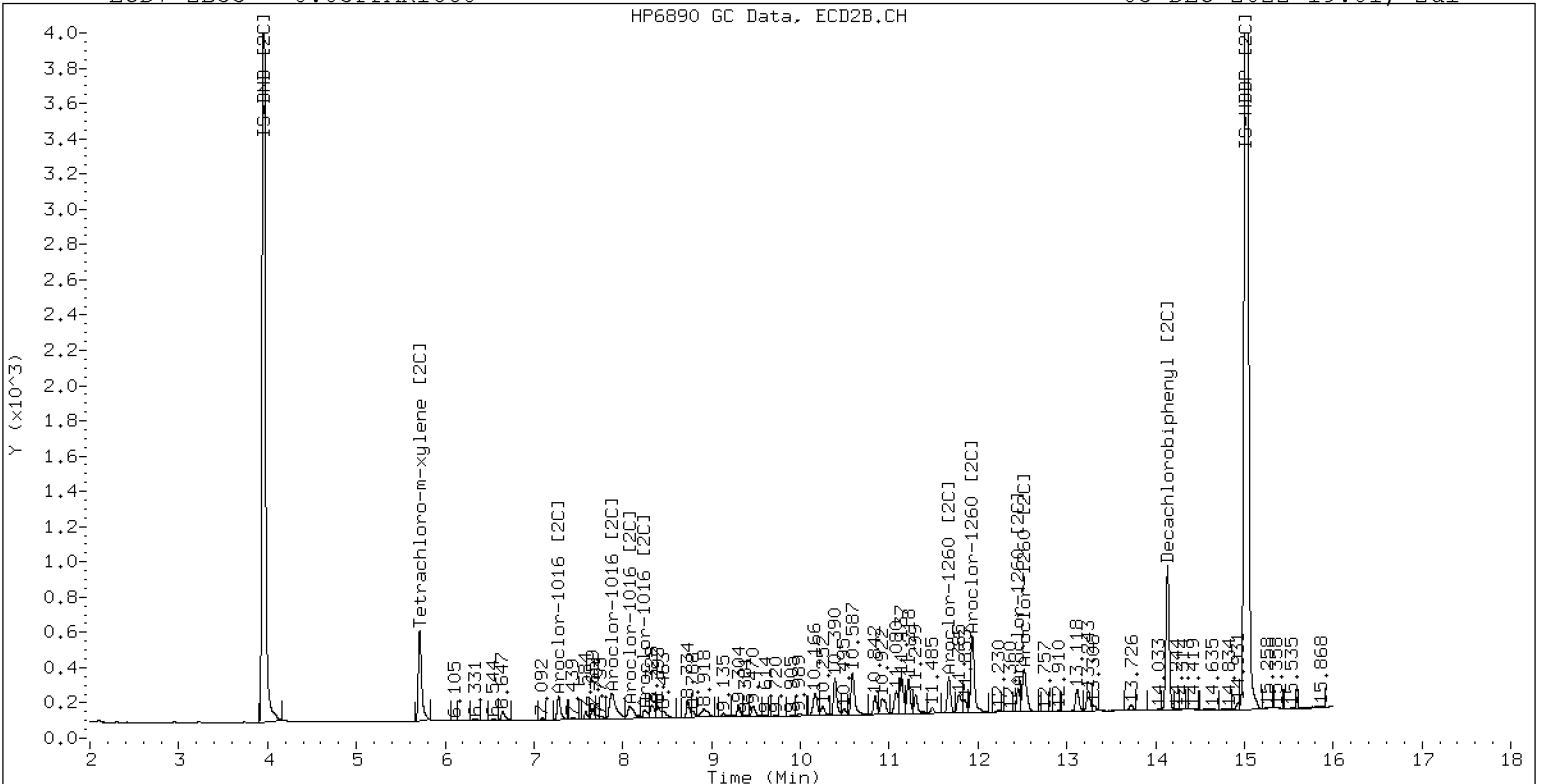
03-DEC-2022 19:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPAR1660

03-DEC-2022 19:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032214ECD7.D
 Data file 2: /221203.b/221203.b/12032214ECD7.D
 Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
 Compound Sublist: AR1660.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: 1PPMAR1660
 Client ID:
 Injection Date: 03-DEC-2022 19:23
 Report Date: 12/05/2022 13:28
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.001	1010529	5.712	-0.002	531708	152.6	150.7	1.3	Tetrachloro-m-xylene
13.908	-0.001	1103073	14.137	-0.000	836962	144.8	153.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467179	4.4
Hexabromobiphenyl	798898	830915	4.0

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257438	3.3
Hexabromobiphenyl	362541	385067	6.2

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.291	-0.001	135017	866.4	1	7.276	0.001	112973	858.3	
Aroclor-1016	2	7.671	-0.003	458351	911.0	2	7.869	-0.001	252319	888.8	
Aroclor-1016	3	7.807	-0.003	183320	804.0	3	8.068	-0.002	103219	846.7	
Aroclor-1016	4	8.423	-0.001	135184	930.1	4	8.239	-0.002	63199	985.9	
Total CollAve (4 peaks):				877.9		Total Col2Ave (4 peaks):				894.9	RPD = 2
Corrected Ave (3 peaks):				860.5		Corrected Ave (3 peaks):				864.6	RPD = 0

CalAmt %D: -12.2

CalAmt %D: -10.5

Aroclor-1260	1	11.058	-0.003	277616	917.9	1	11.668	-0.002	180676	888.9	
Aroclor-1260	2	11.375	-0.002	293627	938.6	2	11.930	-0.002	450760	883.8	
Aroclor-1260	3	11.748	-0.002	769872	936.7	3	12.449	-0.002	129799	955.7	
Aroclor-1260	4	12.151	-0.003	405939	969.8	4	12.514	-0.002	308791	908.2	
Aroclor-1260	5	12.259	-0.001	161370	941.8	NS	---			----	
Total CollAve (5 peaks):				941.0		Total Col2Ave (4 peaks):				909.1	RPD = 3
Corrected Ave (4 peaks):				933.7		Corrected Ave (3 peaks):				893.6	RPD = 4

CalAmt %D: -5.9

CalAmt %D: -9.1

Total PCB Area Coll (5.936 - 13.808) = 7995465 Coll Total PCB = 1.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 4426537 Col2 Total PCB = 2.4 ppm*

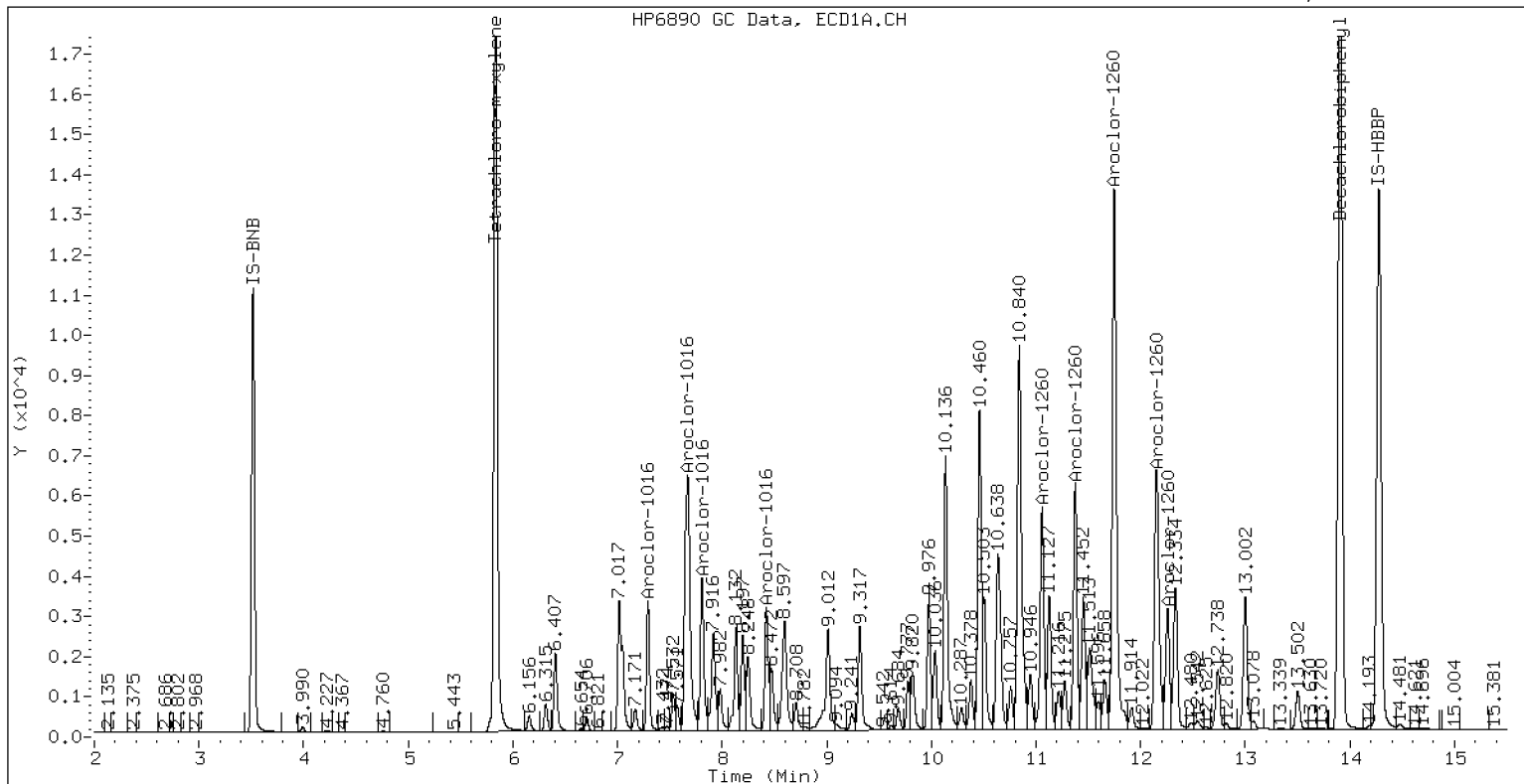
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 1PPMAR1660

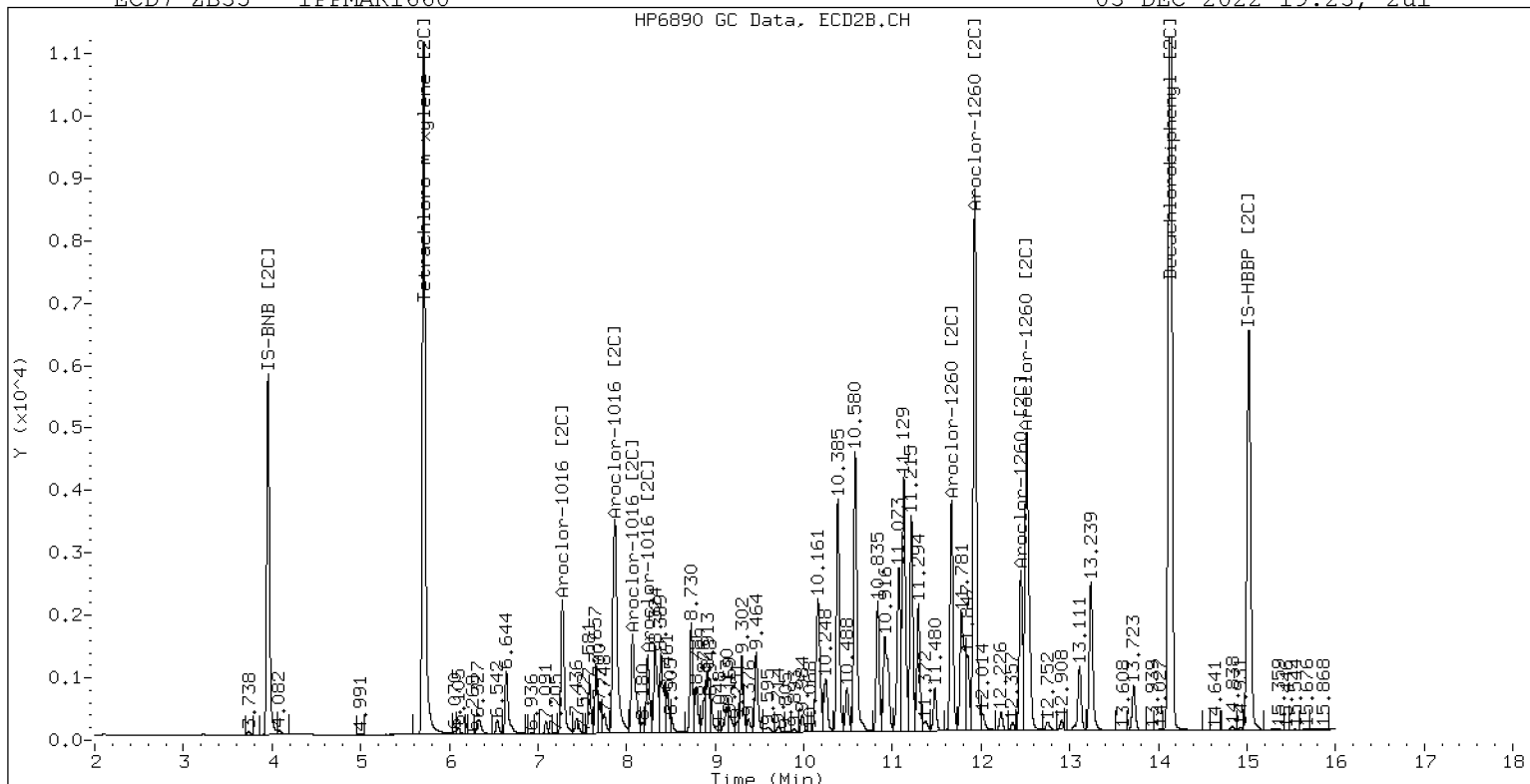
03-DEC-2022 19:23, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 1PPMAR1660

03-DEC-2022 19:23, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032215ECD7.D
Data file 2: /221203.b/221203.b/12032215ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:44
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	108416	5.713	-0.000	58717	16.7	16.8	0.6	Tetrachloro-m-xylene
13.907	-0.002	126876	14.136	-0.001	91231	16.5	16.6	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457669	2.2
Hexabromobiphenyl	798898	837264	4.8
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254712	2.3
Hexabromobiphenyl	362541	387892	7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.293	0.001	16631	108.9	1	7.277	0.001	14117	108.4	
Aroclor-1016	2	7.680	0.007	52058	105.6	2	7.876	0.006	29792	106.1	
Aroclor-1016	3	7.816	0.006	24753	110.8	3	8.076	0.005	12664	105.0	
Aroclor-1016	4	8.428	0.004	15027	105.5	4	8.247	0.006	6540	103.1	
Total CollAve (4 peaks):				107.7		Total Col2Ave (4 peaks):				105.6	RPD = 2
Corrected Ave (3 peaks):				106.7		Corrected Ave (3 peaks):				104.7	RPD = 2

CalAmt %D: 7.7

CalAmt %D: 5.6

Aroclor-1260	1	11.064	0.003	31860	104.5	1	11.671	0.002	21501	105.0	
Aroclor-1260	2	11.381	0.003	32914	104.4	2	11.935	0.003	54902	106.9	
Aroclor-1260	3	11.756	0.006	88153	106.4	3	12.453	0.002	14336	104.8	
Aroclor-1260	4	12.159	0.005	44477	105.5	4	12.520	0.004	36244	105.8	
Aroclor-1260	5	12.262	0.002	18369	106.4	NS	---			----	
Total CollAve (5 peaks):				105.4		Total Col2Ave (4 peaks):				105.6	RPD = 0
Corrected Ave (4 peaks):				105.2		Corrected Ave (3 peaks):				105.2	RPD = 0

CalAmt %D: 5.4

CalAmt %D: 5.6

Total PCB Area Coll (5.936 - 13.808) = 933356 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 523507 Col2 Total PCB = 0.3 ppm*

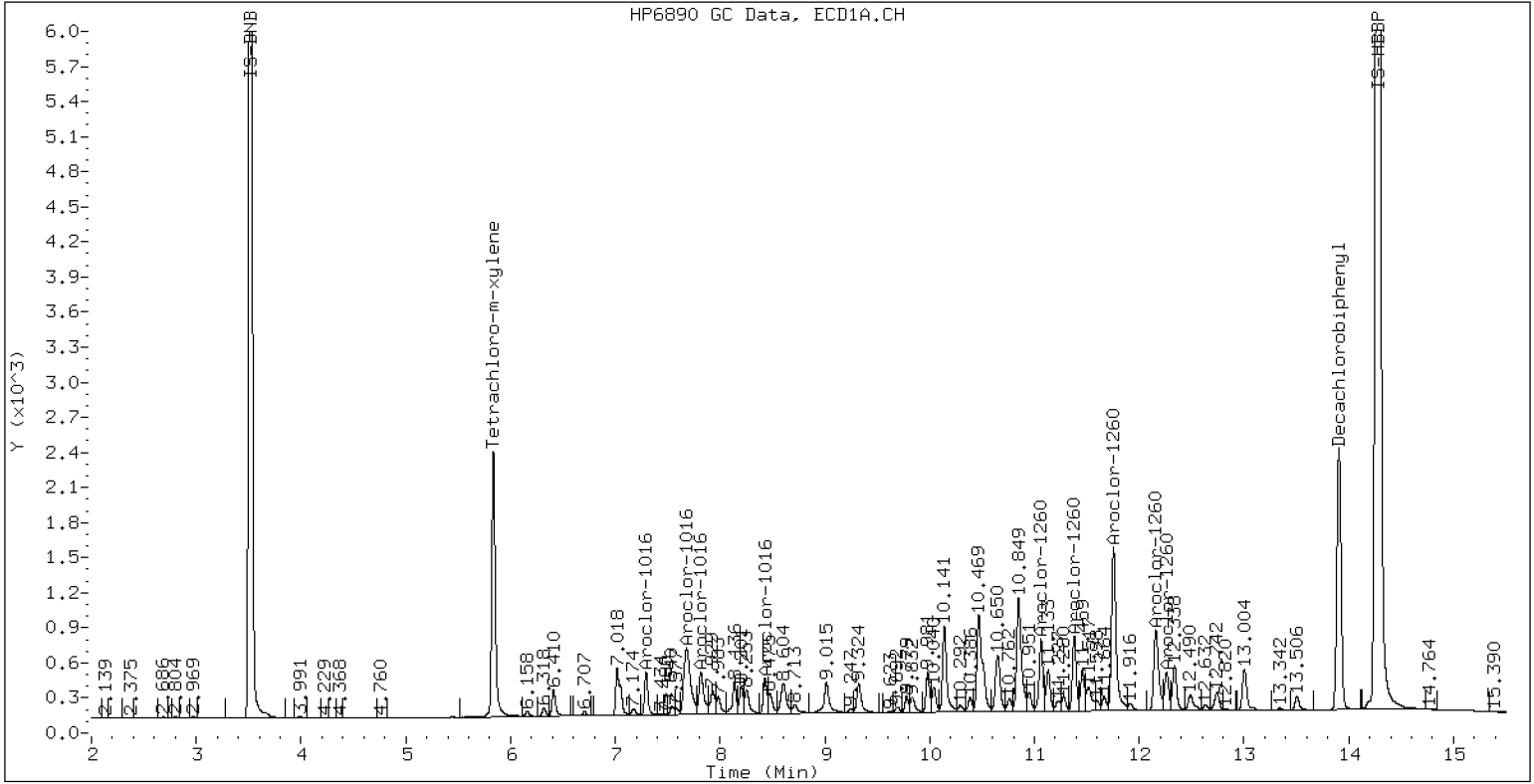
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660

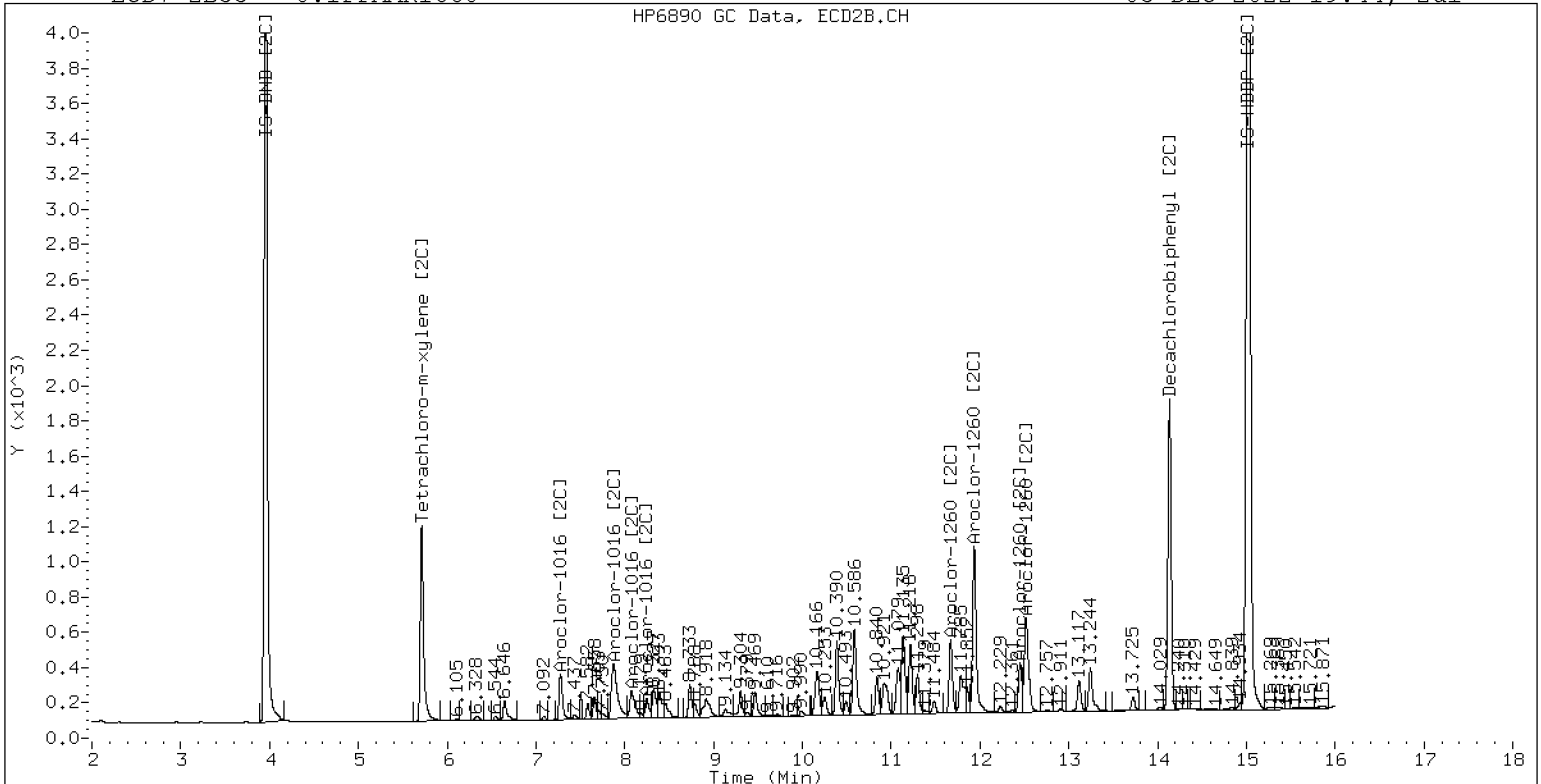
03-DEC-2022 19:44, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660

03-DEC-2022 19:44, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032216ECD7.D
Data file 2: /221203.b/221203.b/12032216ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 20:05
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	510310	5.711	-0.002	273850	78.2	77.7	0.7	Tetrachloro-m-xylene
13.908	-0.001	570893	14.137	-0.000	431489	74.4	77.0	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460250	2.8
Hexabromobiphenyl	798898	837210	4.8
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257013	3.2
Hexabromobiphenyl	362541	394788	8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.292	0.000	73008	475.5	1	7.275	0.000	61467	467.8	
Aroclor-1016	2	7.674	0.000	243498	491.2	2	7.870	0.000	135395	477.7	
Aroclor-1016	3	7.810	0.000	100165	445.9	3	8.070	0.000	55783	458.3	
Aroclor-1016	4	8.424	0.000	70493	492.3	4	8.241	0.000	32578	509.0	
Total CollAve (4 peaks):				476.3		Total Col2Ave (4 peaks):				478.2	RPD = 0
Corrected Ave (3 peaks):				470.9		Corrected Ave (3 peaks):				467.9	RPD = 1
CalAmt %D:				-4.7		CalAmt %D:				-4.4	
Aroclor-1260	1	11.062	0.000	148089	485.9	1	11.669	0.000	95983	460.6	
Aroclor-1260	2	11.377	0.000	154542	490.3	2	11.933	0.000	249045	476.3	
Aroclor-1260	3	11.750	0.000	401802	485.2	3	12.451	0.000	66824	479.9	
Aroclor-1260	4	12.154	0.000	212604	504.1	4	12.517	0.000	165020	473.4	
Aroclor-1260	5	12.260	0.000	85762	496.7	NS	---			----	
Total CollAve (5 peaks):				492.5		Total Col2Ave (4 peaks):				472.5	RPD = 4
Corrected Ave (4 peaks):				489.5		Corrected Ave (3 peaks):				470.1	RPD = 4
CalAmt %D:				-1.5		CalAmt %D:				-5.5	

Total PCB Area Coll (5.936 - 13.808) = 4267475 Coll Total PCB = 0.8 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2352394 Col2 Total PCB = 1.3 ppm*

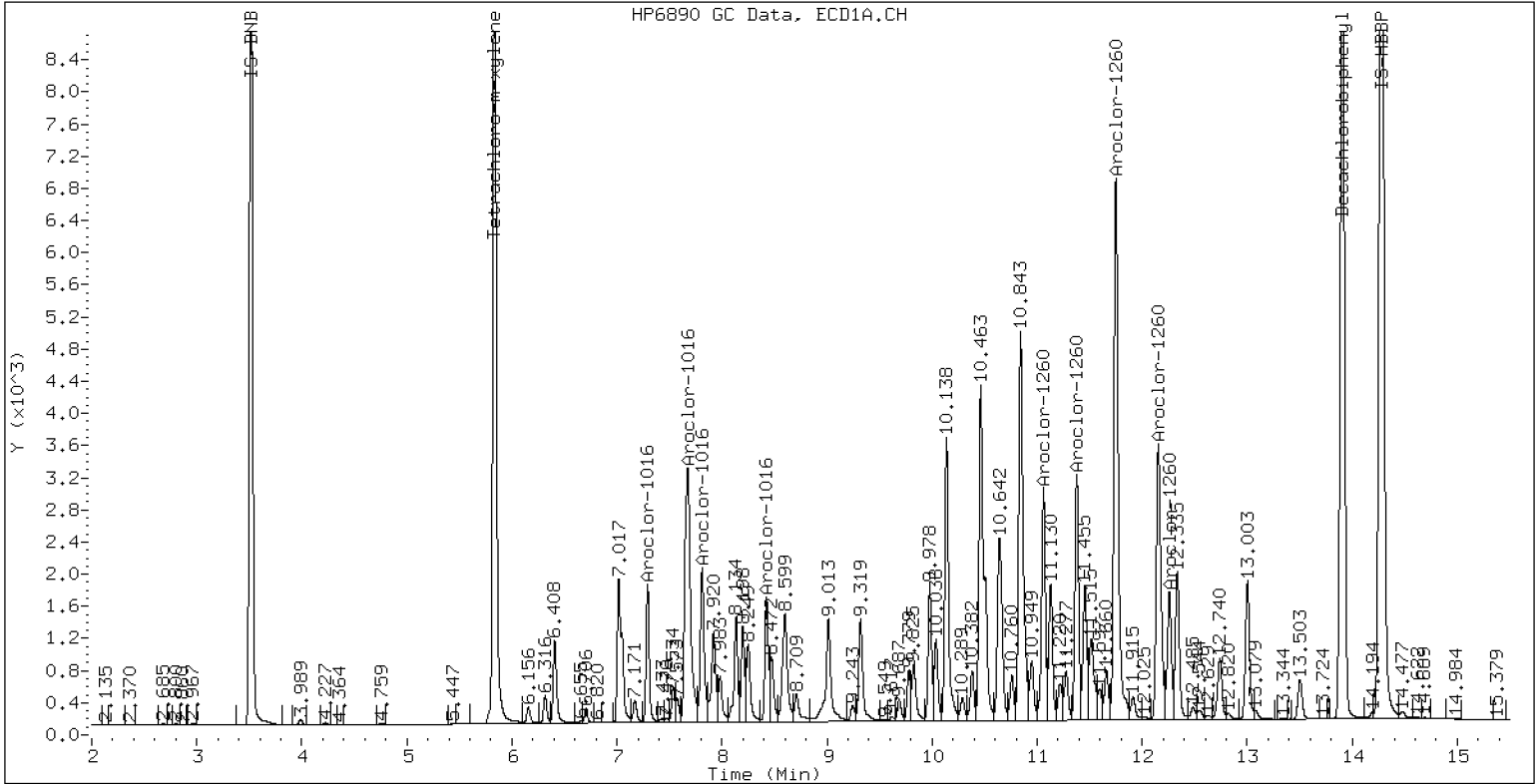
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660

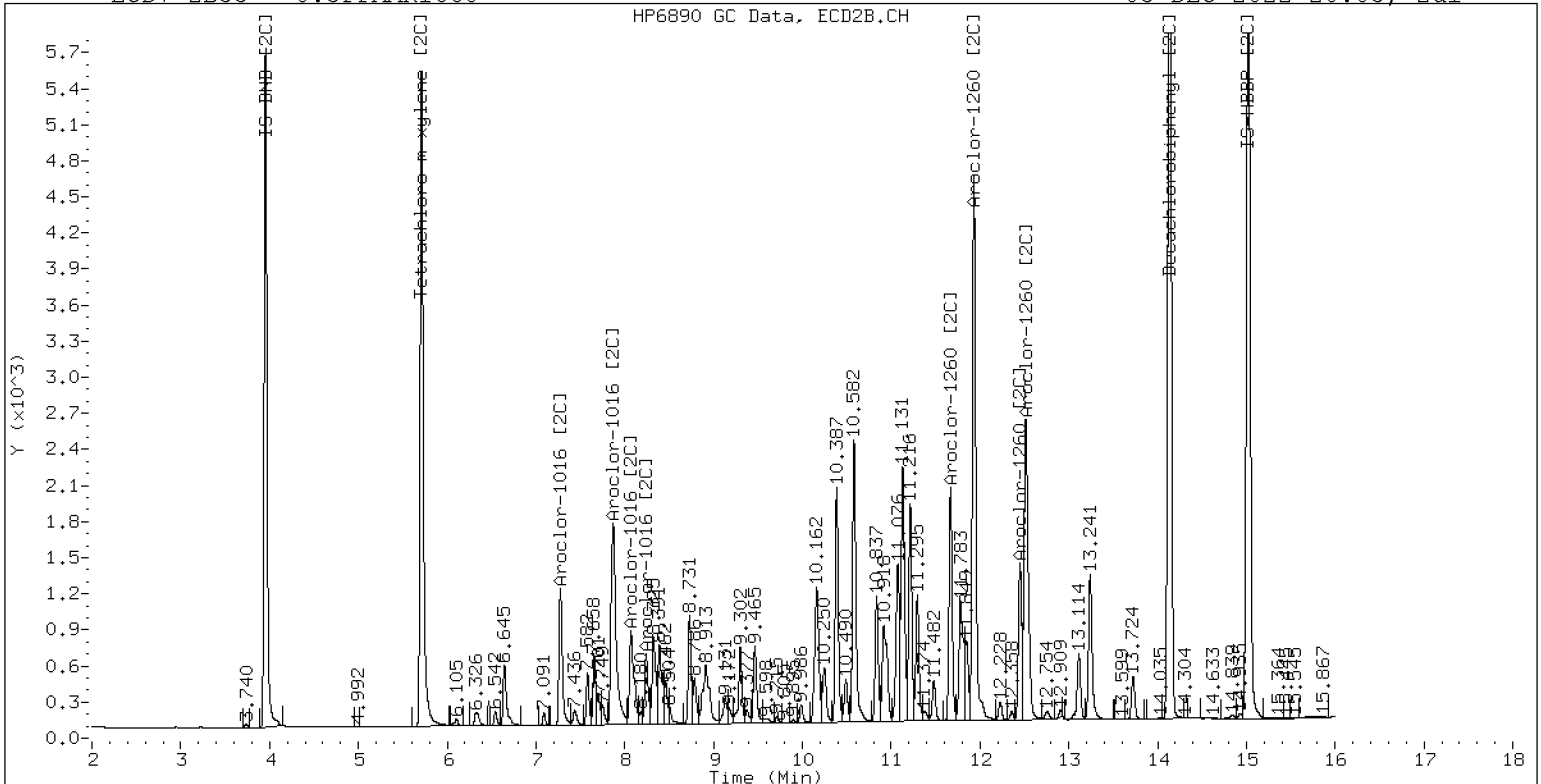
03-DEC-2022 20:05, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660

03-DEC-2022 20:05, 2u1



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032217ECD7.D ARI ID: AR1242
 Data file 2: /221203.b/221203.b/12032217ECD7.D Client ID:
 Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m Injection Date: 03-DEC-2022 20:26
 Compound Sublist: AR1242.sub Report Date: 12/05/2022 13:28
 Instrument, Inj. Vol.: ecd7.i, 2ul Matrix: NONE
 Quant Method: Internal Std Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	243461	5.713	-0.000	130768	37.3	37.1	0.4	Tetrachloro-m-xylene
13.908	-0.001	300671	14.137	0.000	218277	38.5	38.4	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461030	3.0
Hexabromobiphenyl	798898	851899	6.6

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257053	3.2
Hexabromobiphenyl	362541	400012	10.3

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	32669	250.0	1	7.277	0.000	27198	250.0
Aroclor-1242	2	7.680	0.000	103727	250.0	2	7.875	0.000	57737	250.0
Aroclor-1242	3	8.427	0.000	29844	250.0	3	9.178	0.000	18627	250.0
Aroclor-1242	4	9.030	0.000	61970	250.0	4	9.605	0.000	22388	250.0
Total CollAve (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

Total PCB Area Coll (5.936 - 13.808) = 766457 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 407128 Col2 Total PCB = 0.2 ppm*

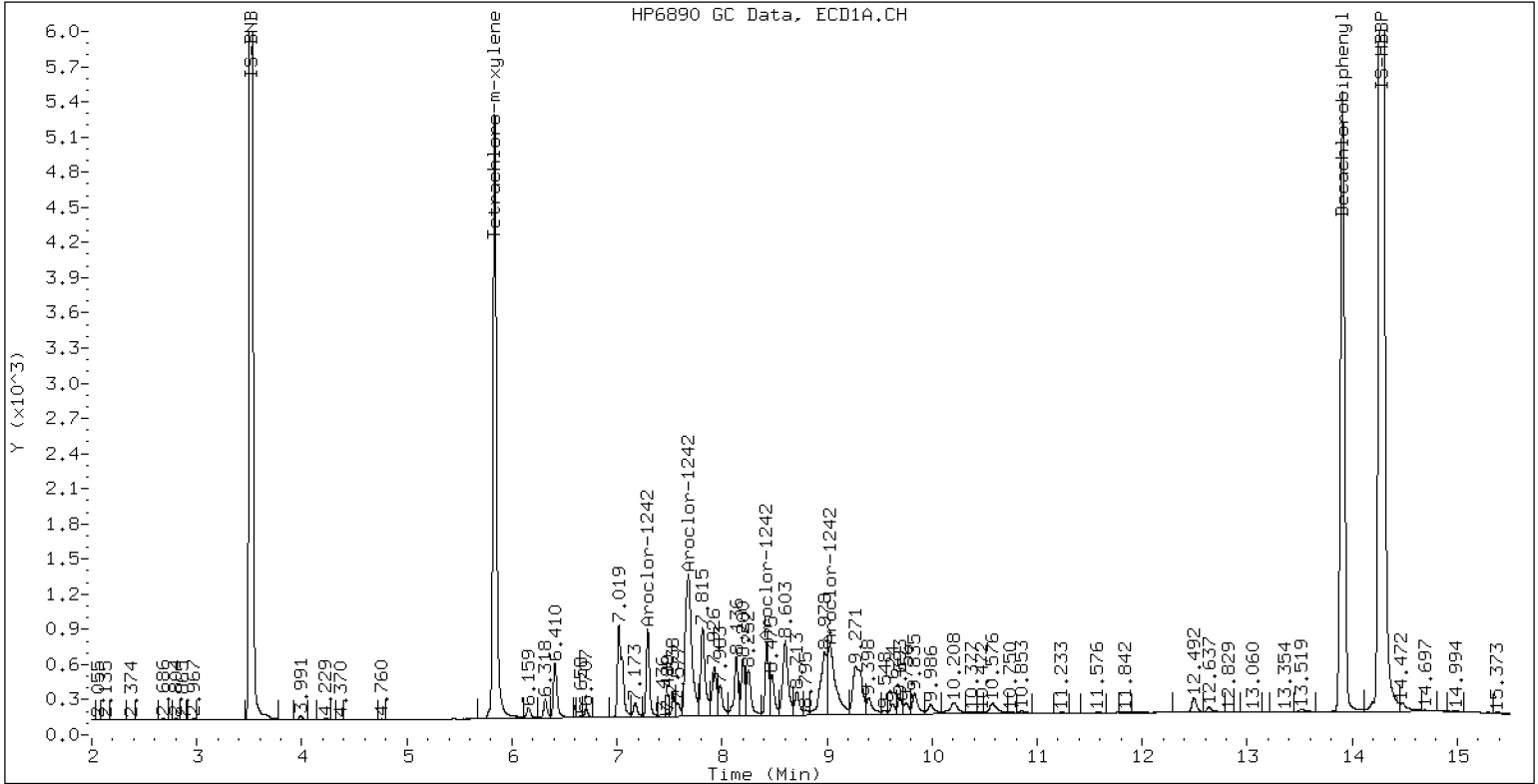
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242

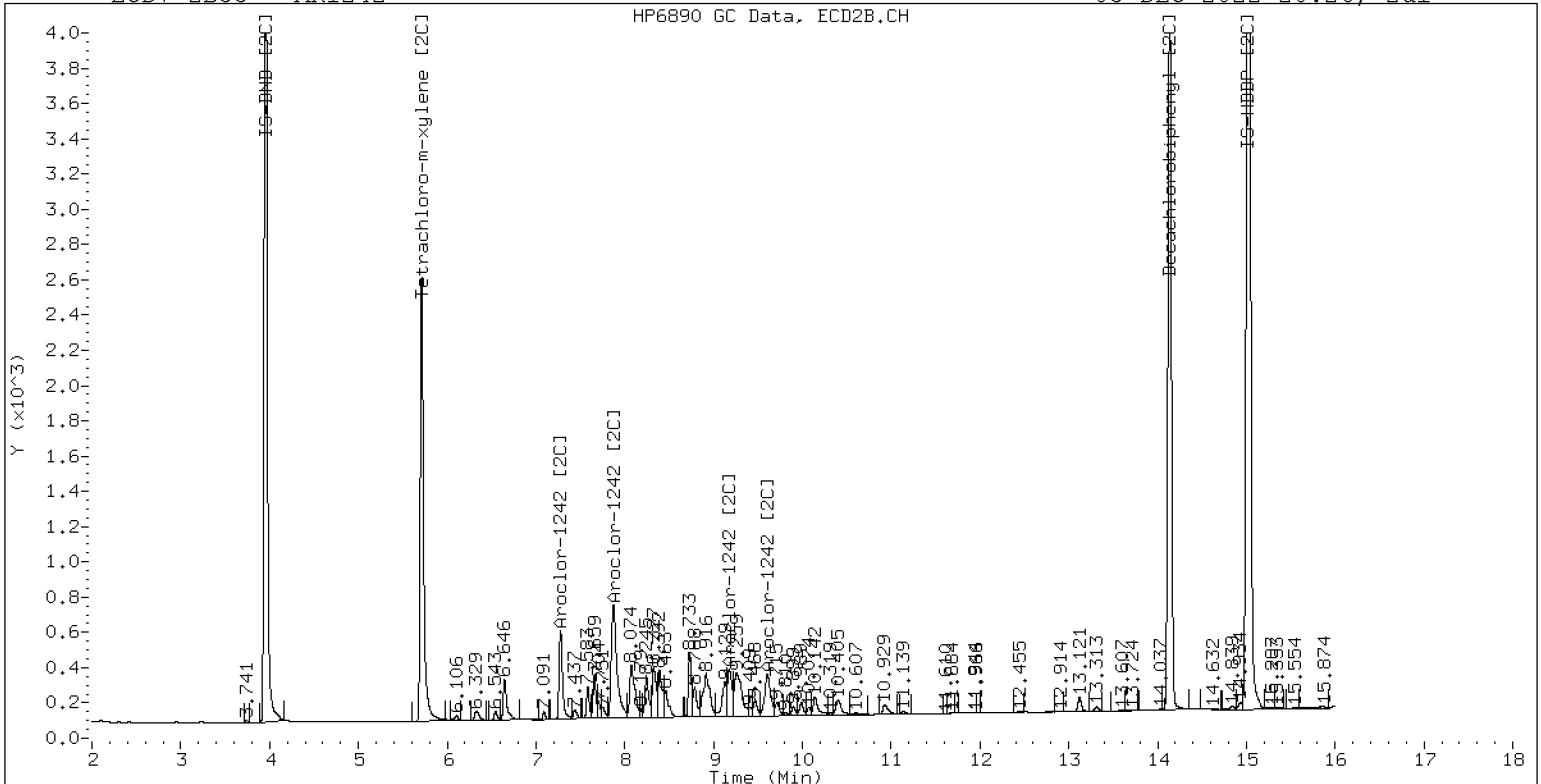
03-DEC-2022 20:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242

03-DEC-2022 20:26, 2ul

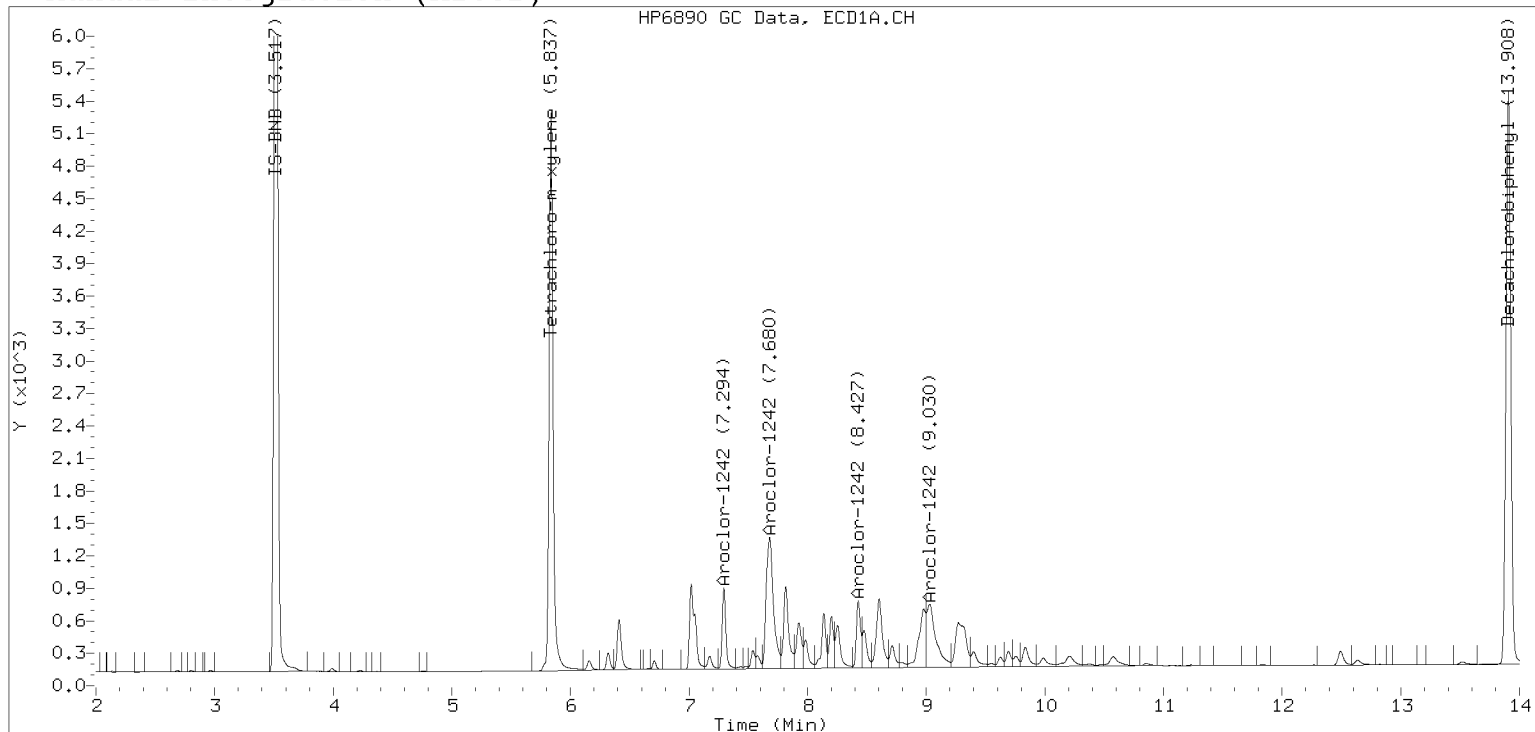


ZB-35 Manual Integration: YES

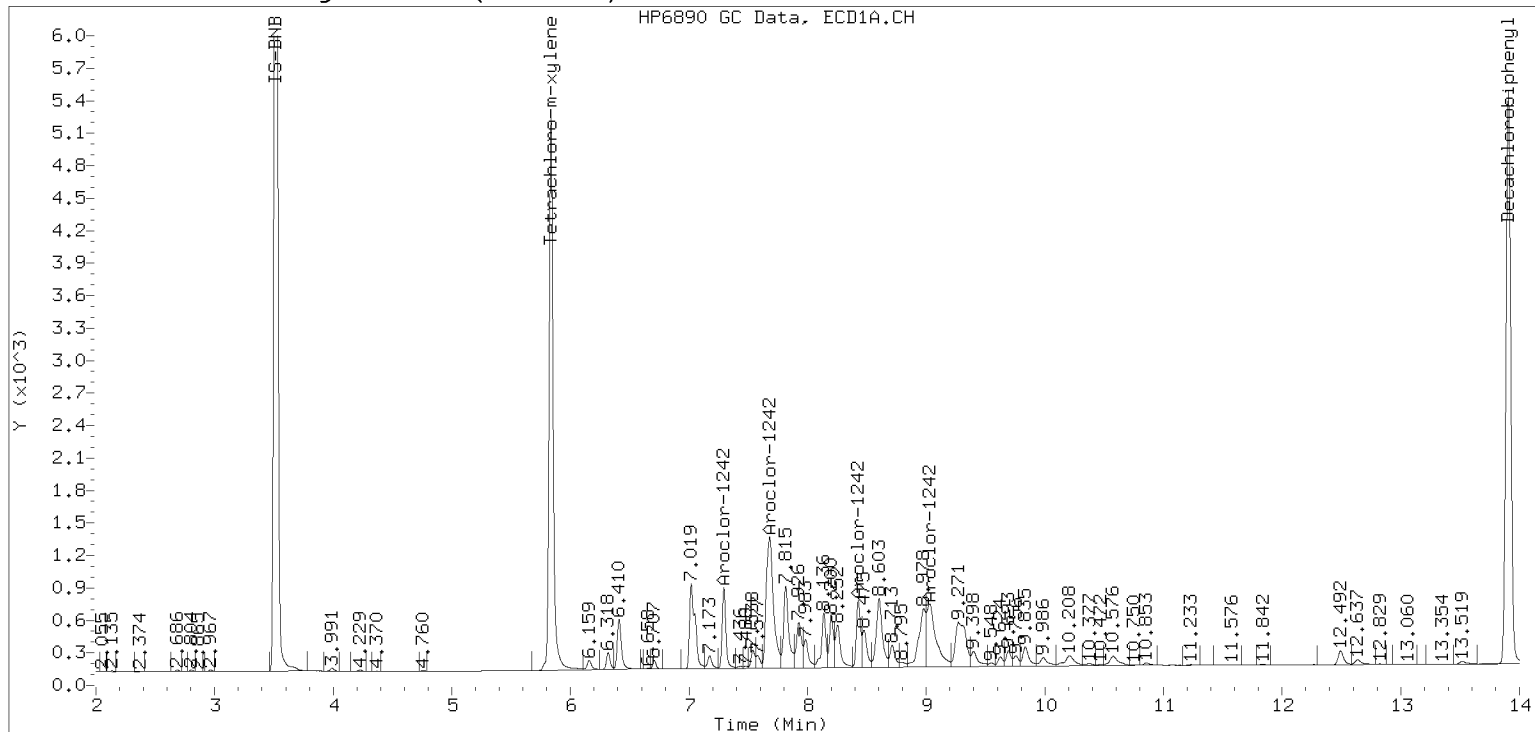
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221203.b/12032217ECD7.D Injection Date: 03-DEC-2022 20:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032218ECD7.D ARI ID: AR1248
 Data file 2: /221203.b/221203.b/12032218ECD7.D Client ID:
 Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m Injection Date: 03-DEC-2022 20:48
 Compound Sublist: AR1248.sub Report Date: 12/05/2022 13:28
 Instrument, Inj. Vol.: ecd7.i, 2ul Matrix: NONE
 Quant Method: Internal Std Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag			
5.836	-0.001	231737	5.713	-0.000	124430	36.1	35.8	0.8	Tetrachloro-m-xylene
13.907	-0.001	296478	14.137	0.000	215774	38.9	38.1	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453370	1.3
Hexabromobiphenyl	798898	832030	4.1
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	253684	1.8
Hexabromobiphenyl	362541	398468	9.9

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	0.000	48733	250.0	1	8.326	0.000	25909	250.0
Aroclor-1248	2	8.603	0.000	62221	250.0	2	8.733	0.000	27250	250.0
Aroclor-1248	3	9.023	0.000	111933	250.0	3	9.177	0.000	33147	250.0
Aroclor-1248	4	9.315	0.000	54837	250.0	4	9.602	0.000	38911	250.0
Total CollAve (4 peaks):				250.0	Total Col2Ave (4 peaks):				250.0	RPD = 0
Corrected Ave (3 peaks):				250.0	Corrected Ave (3 peaks):				250.0	RPD = 0

Total PCB Area Coll (5.936 - 13.808) = 964384 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 514558 Col2 Total PCB = 0.3 ppm*

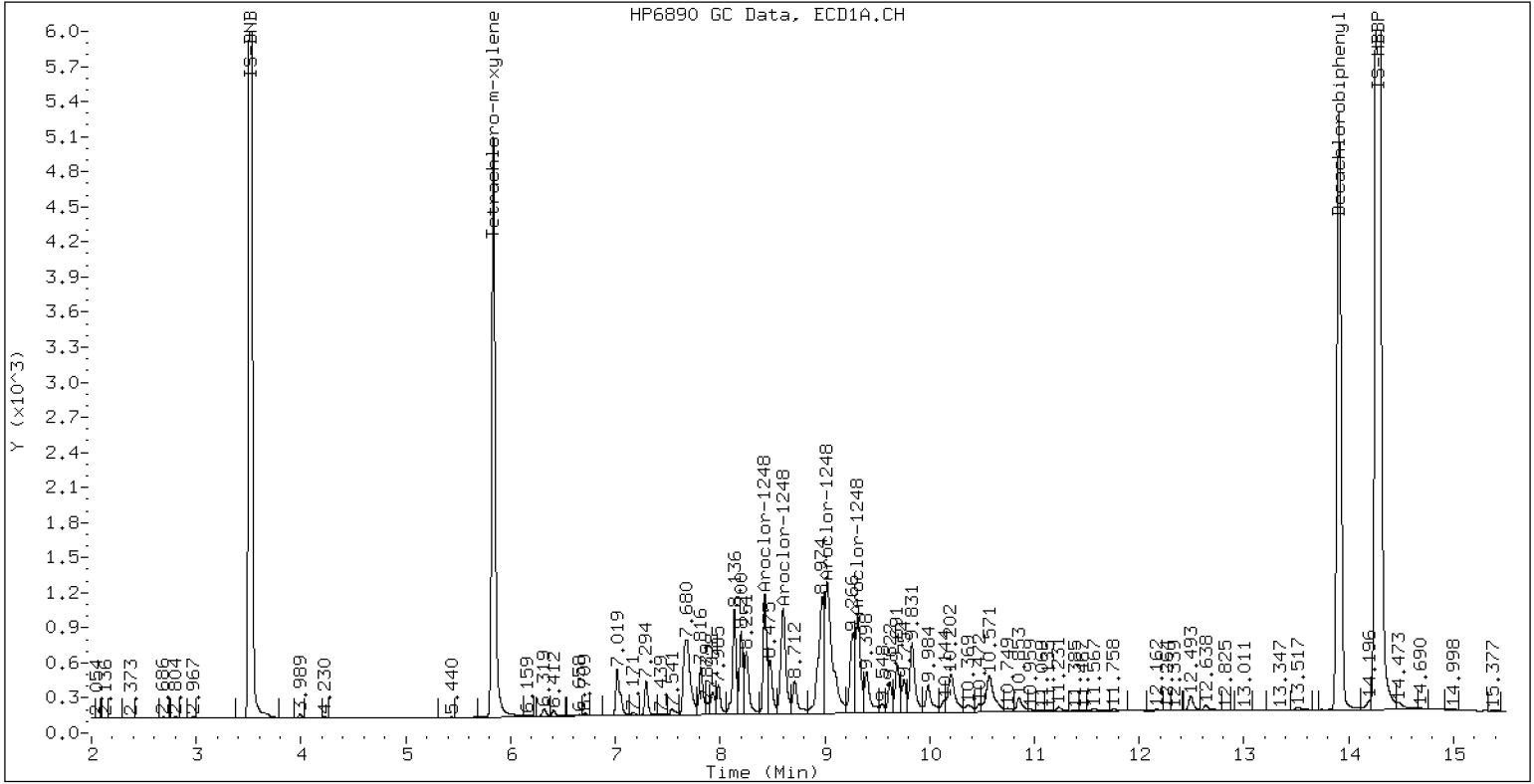
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248

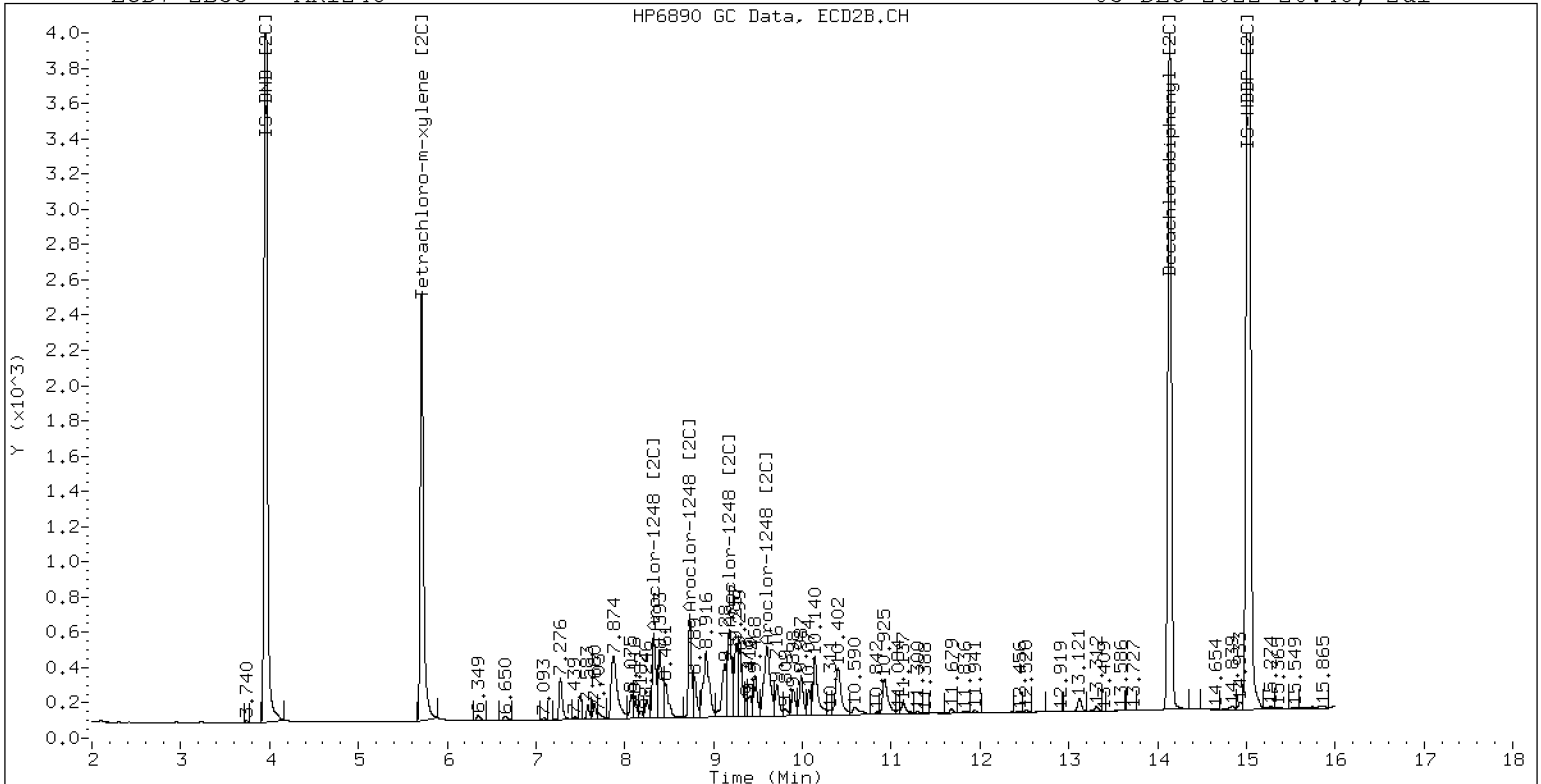
03-DEC-2022 20:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248

03-DEC-2022 20:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032219ECD7.D
Data file 2: /221203.b/221203.b/12032219ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 03-DEC-2022 21:09
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift Response	ZB35 Col Shift Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000 235742	5.713 -0.000 129532	36.3	36.8	1.4	Tetrachloro-m-xylene
13.908	-0.000 304424	14.136 -0.001 220843	39.5	38.4	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458200	2.4
Hexabromobiphenyl	798898	841638	5.3
Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	256547	3.0
Hexabromobiphenyl	362541	405063	11.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	0.000	100858	250.0	1	9.467	0.000	41352	250.0
Aroclor-1254	2	9.397	0.000	39224	250.0	2	9.987	0.000	33246	250.0
Aroclor-1254	3	9.688	0.000	63702	250.0	3	10.139	0.000	71462	250.0
Aroclor-1254	4	9.828	0.000	124170	250.0	4	10.389	0.000	74009	250.0
Aroclor-1254	5	10.194	0.000	85117	250.0	5	10.586	0.000	35695	250.0
Total CollAve (5 peaks):				250.0		Total Col2Ave (5 peaks):				250.0 RPD = 0
Corrected Ave (4 peaks):				250.0		Corrected Ave (4 peaks):				250.0 RPD = 0

Total PCB Area Coll (5.936 - 13.808) = 1310899 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 697760 Col2 Total PCB = 0.4 ppm*

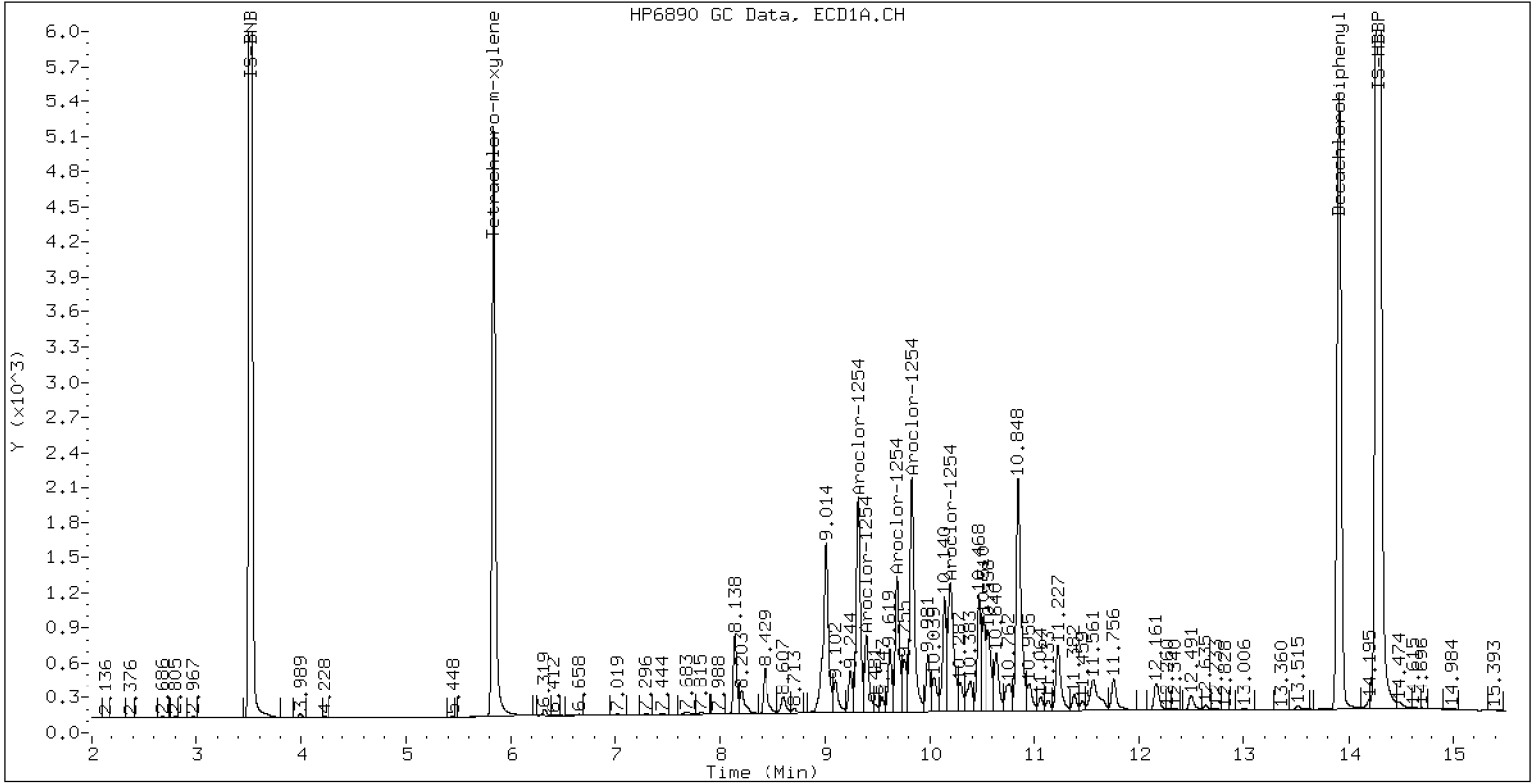
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254

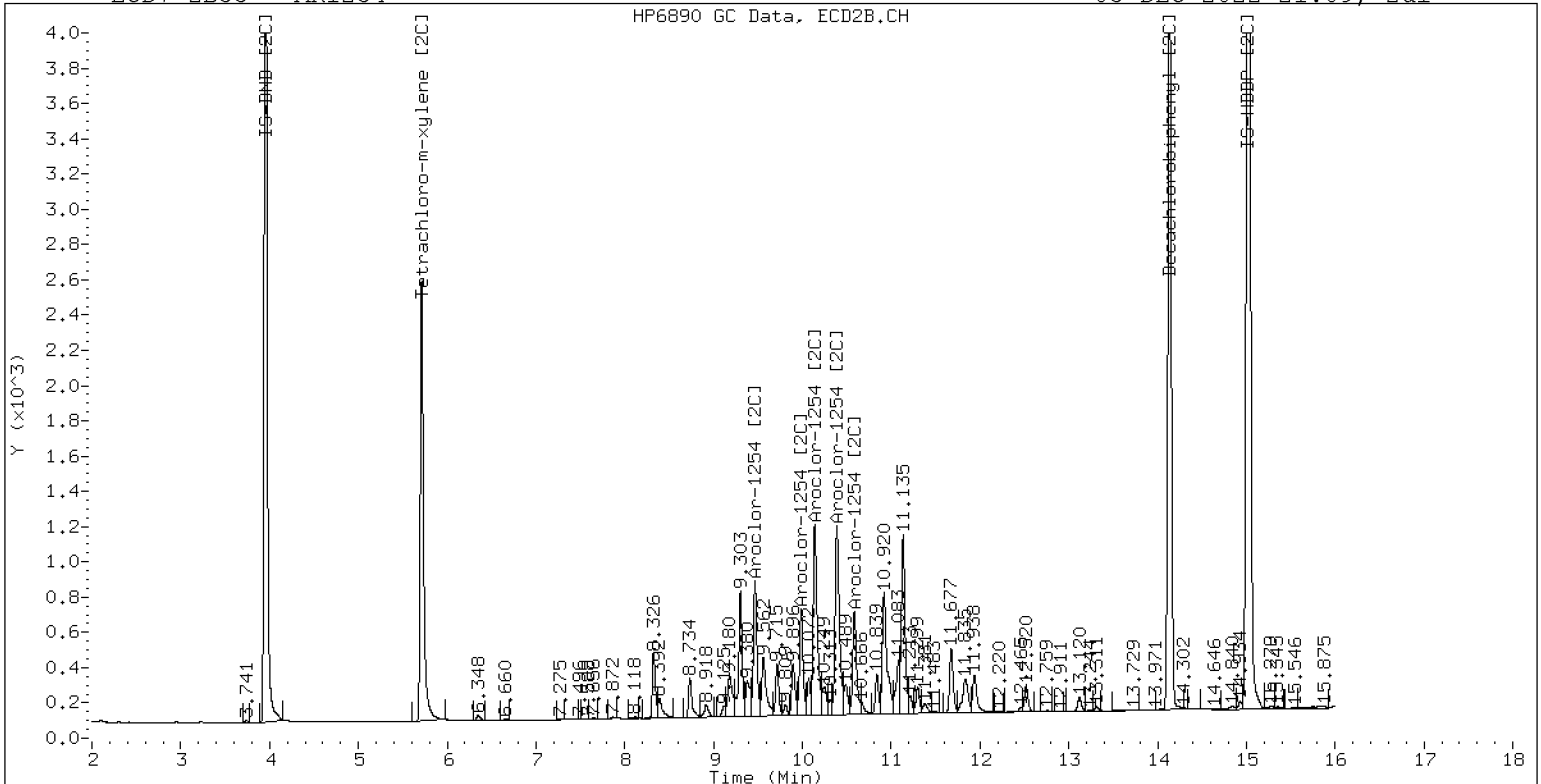
03-DEC-2022 21:09, 2u1



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254

03-DEC-2022 21:09, 2u1



ZB-35 Manual Integration: YES

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032220ECD7.D
 Data file 2: /221203.b/221203.b/12032220ECD7.D
 Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
 Compound Sublist: AR2162.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: AR2162
 Client ID:
 Injection Date: 03-DEC-2022 21:30
 Report Date: 12/05/2022 13:28
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	241351	5.713	-0.001	129143	36.5	36.2	0.7	Tetrachloro-m-xylene
13.908	0.000	313862	14.136	-0.001	226219	40.2	38.7	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466944	4.3
Hexabromobiphenyl	798898	850987	6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	260026	4.4
Hexabromobiphenyl	362541	412003	13.6

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.760	0.000	9650	250.0	1	4.987	0.000	5486	250.0
Aroclor-1221	2	6.159	0.000	17000	250.0	2	6.322	0.000	10456	250.0
Aroclor-1221	3	6.409	0.000	39219	250.0	3	6.645	0.000	17596	250.0
Total CollAve (3 peaks):				250.0		Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				

Aroclor-1262	1	10.848	0.000	71145	250.0	1	11.217	0.000	78317	250.0
Aroclor-1262	2	12.263	0.000	110609	250.0	2	11.670	0.000	67831	250.0
Aroclor-1262	3	12.337	0.000	118127	250.0	3	12.451	0.000	74822	250.0
Aroclor-1262	4	13.005	0.000	94805	250.0	4	12.519	0.000	117202	250.0
Total CollAve (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Coll (5.936 - 13.808) = 1878739 Coll Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1073324 Col2 Total PCB = 0.6 ppm*

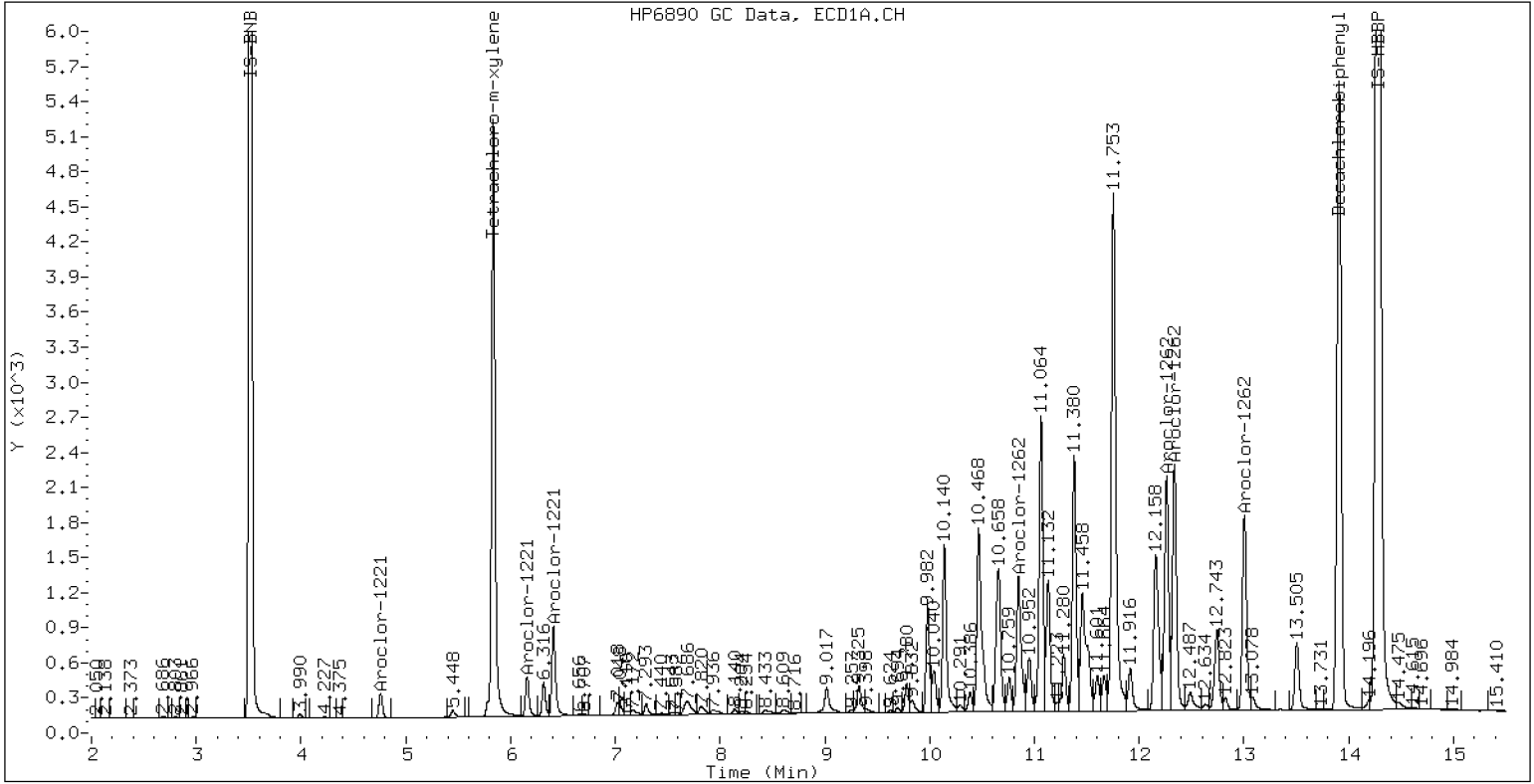
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR2162

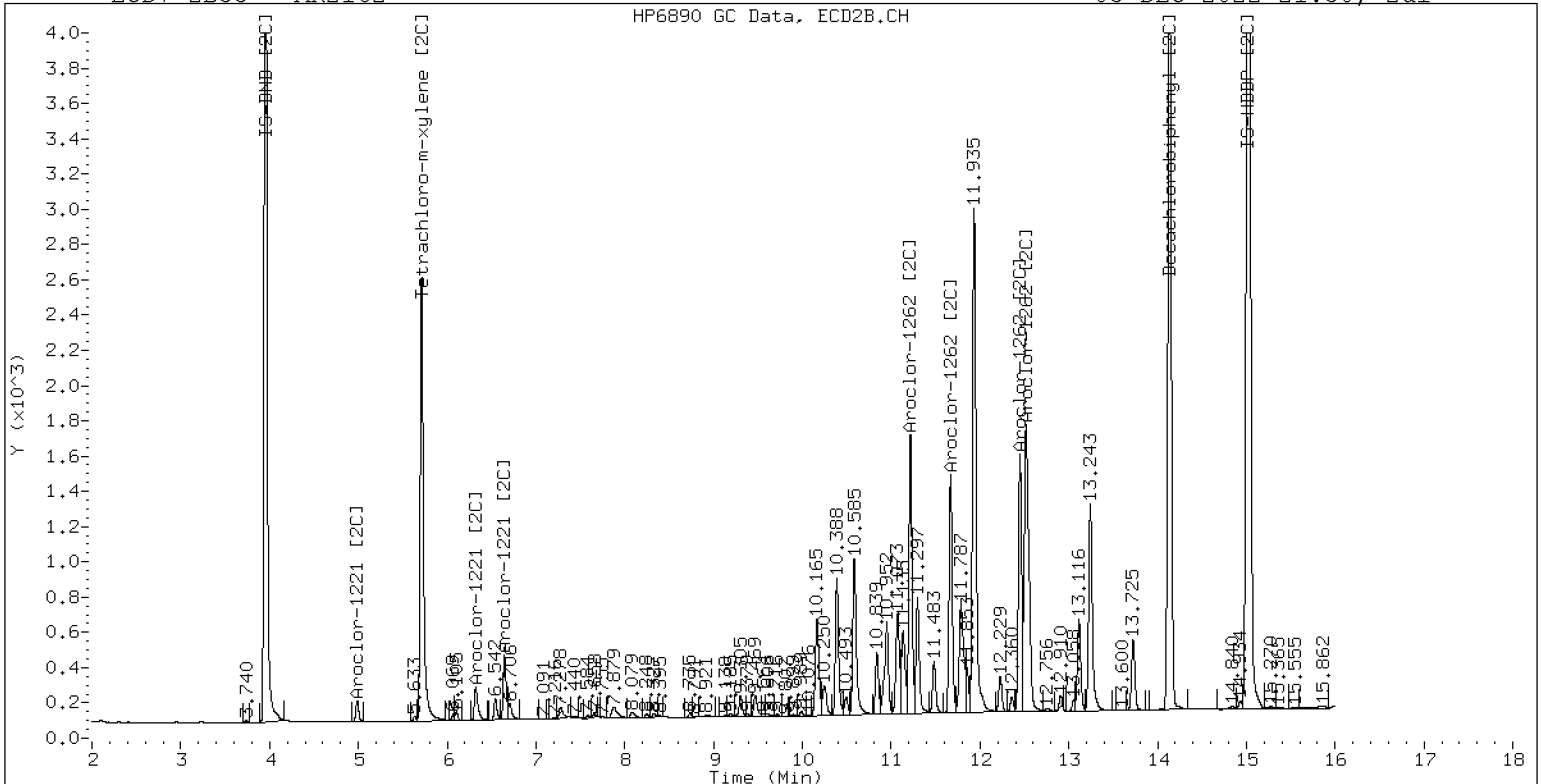
03-DEC-2022 21:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162

03-DEC-2022 21:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032221ECD7.D
Data file 2: /221203.b/221203.b/12032221ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-DEC-2022 21:52
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	243663	5.713	0.000	131067	37.5	37.4	0.3	Tetrachloro-m-xylene
13.908	0.000	449152	14.137	0.000	328563	57.2	55.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458589	2.4
Hexabromobiphenyl	798898	855928	7.1

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255655	2.6
Hexabromobiphenyl	362541	413793	14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.761	0.000	5704	250.0	1	4.989	0.000	3108	250.0
Aroclor-1232	2	6.160	0.000	12048	250.0	2	7.277	0.000	15872	250.0
Aroclor-1232	3	7.684	0.000	54107	250.0	3	7.876	0.000	31029	250.0
Aroclor-1232	4	8.606	0.000	22956	250.0	4	8.734	0.000	8413	250.0
Total CollAve (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.262	0.000	299378	250.0	1	12.450	0.000	195273	250.0
Aroclor-1268	2	12.335	0.000	292877	250.0	2	12.517	0.000	200224	250.0
Aroclor-1268	3	12.716	0.000	240046	250.0	3	12.910	0.000	74248	250.0
Aroclor-1268	4	13.505	0.000	732880	250.0	4	13.726	0.000	534323	250.0
Total CollAve (4 peaks):				250.0		Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):				250.0		Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Coll (5.936 - 13.808) = 2400701 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1468669 Col2 Total PCB = 0.8 ppm*

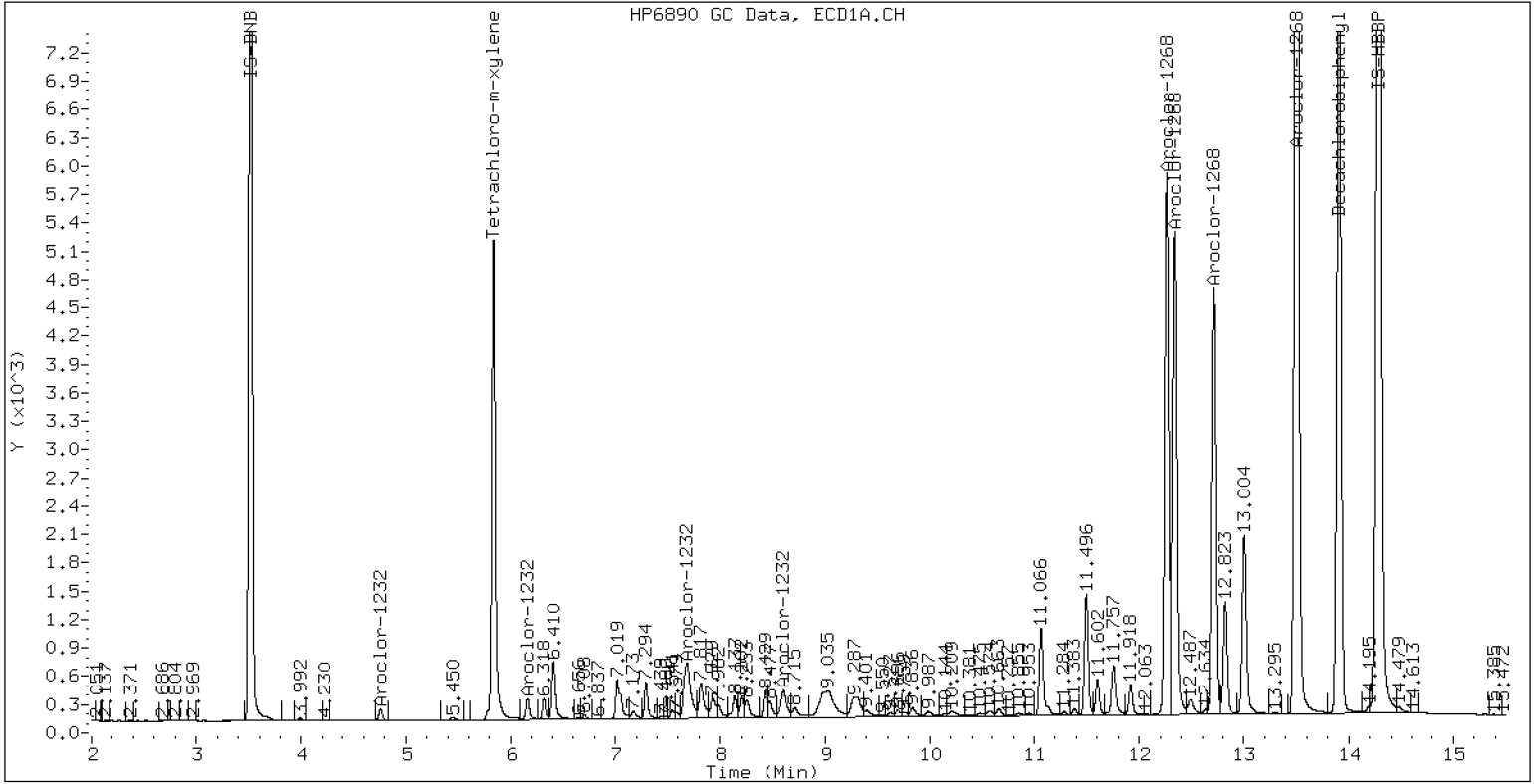
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268

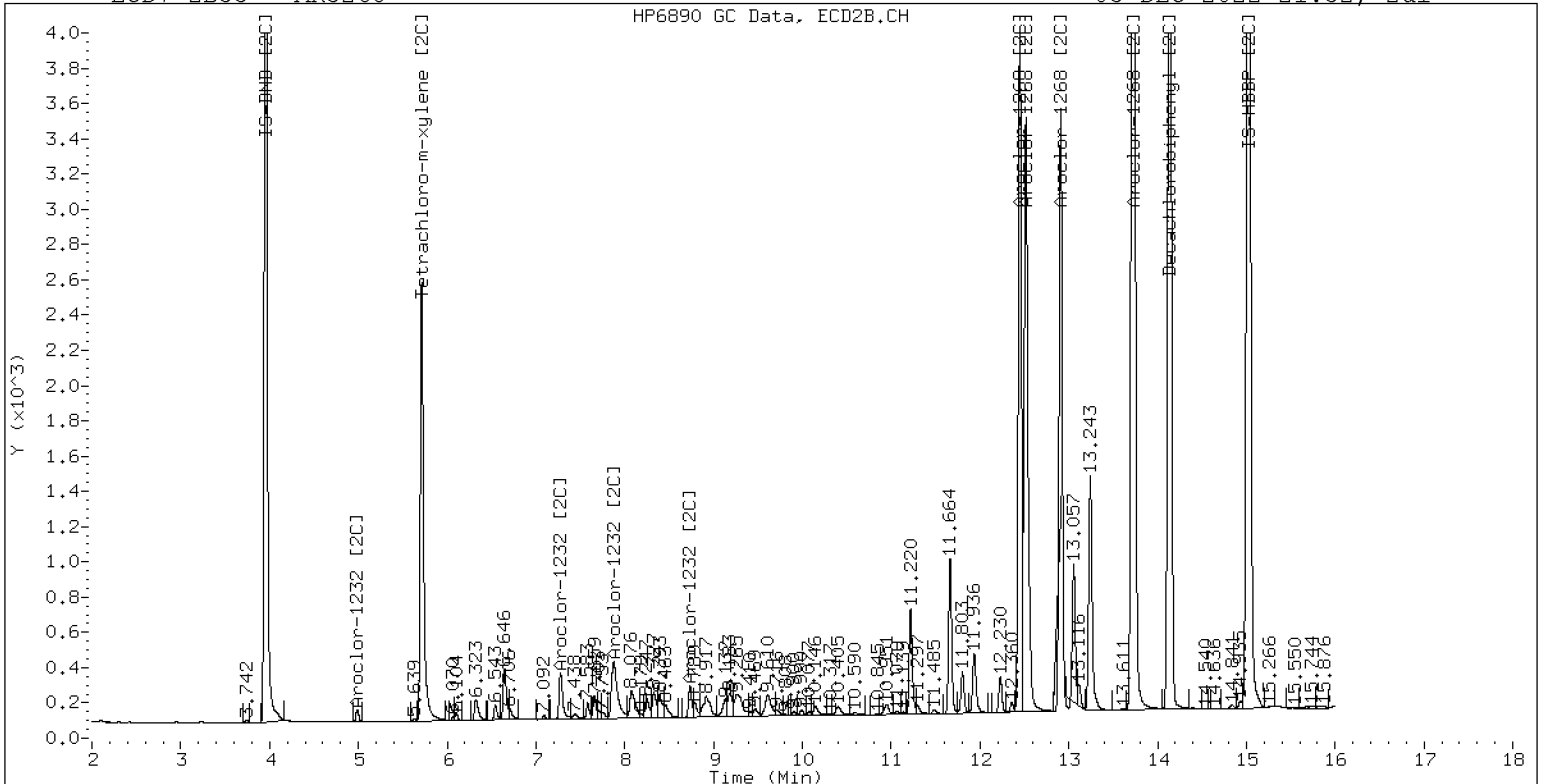
03-DEC-2022 21:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268

03-DEC-2022 21:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total CollAve (4 peaks):				223.3		Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):				222.5		Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total CollAve (5 peaks):				285.1		Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):				280.8		Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

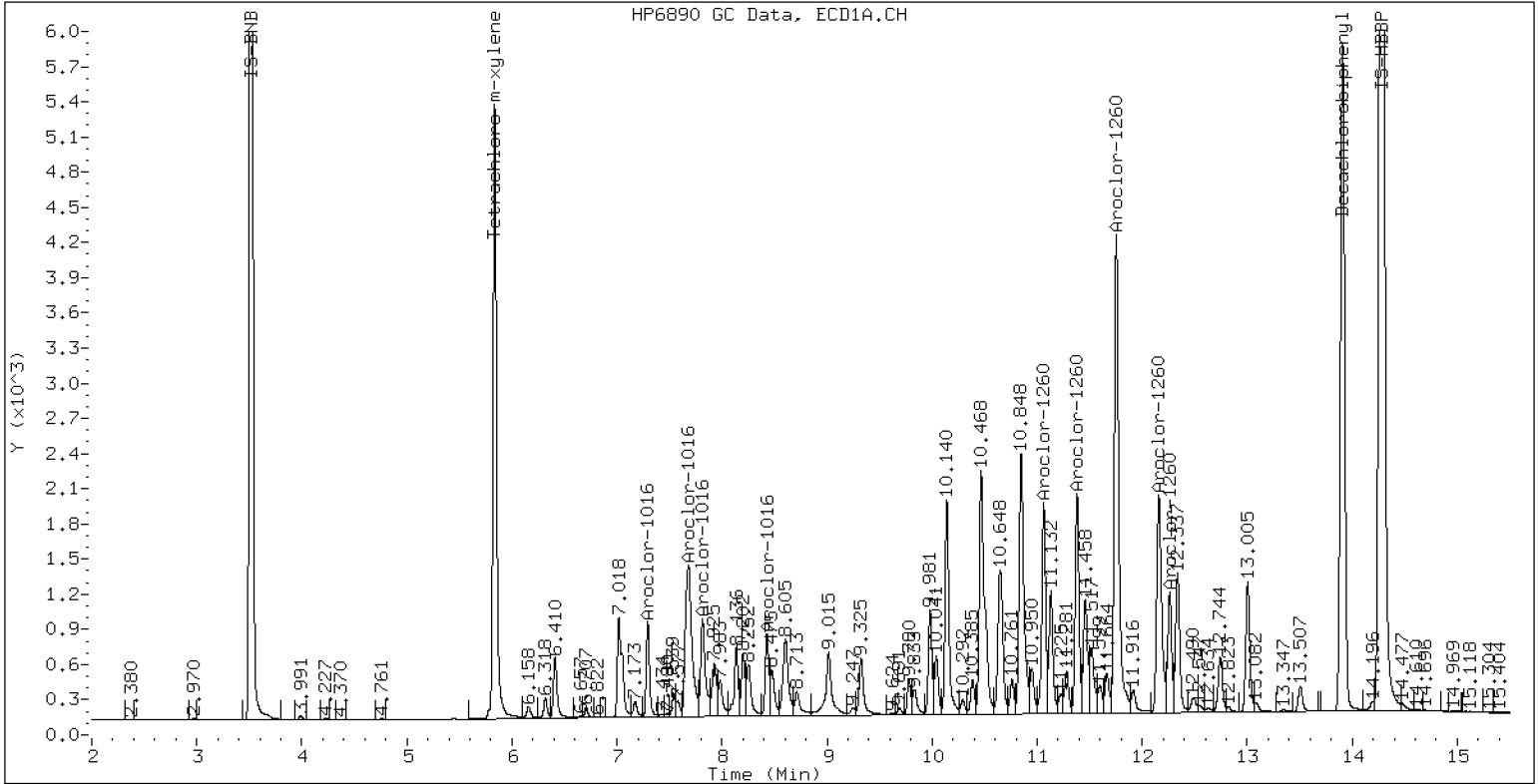
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1

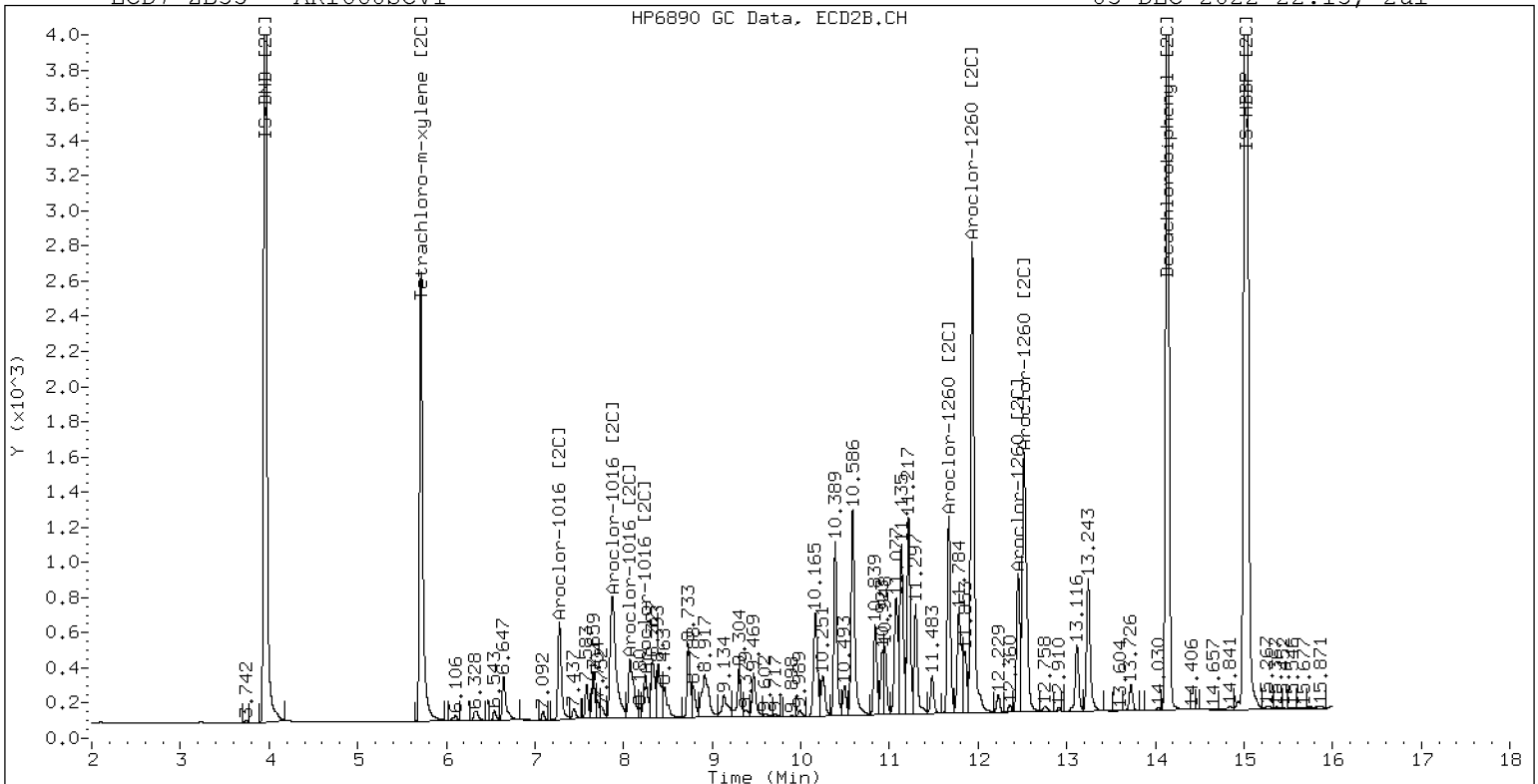
03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1

03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7	
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9	
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4	
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4	
Total CollAve (4 peaks):				206.7	Total Col2Ave (4 peaks):				225.1	RPD = 9	
Corrected Ave (3 peaks):				203.9	Corrected Ave (3 peaks):				216.3	RPD = 6	

Total PCB Area Coll (5.936 - 13.808) = 731052 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

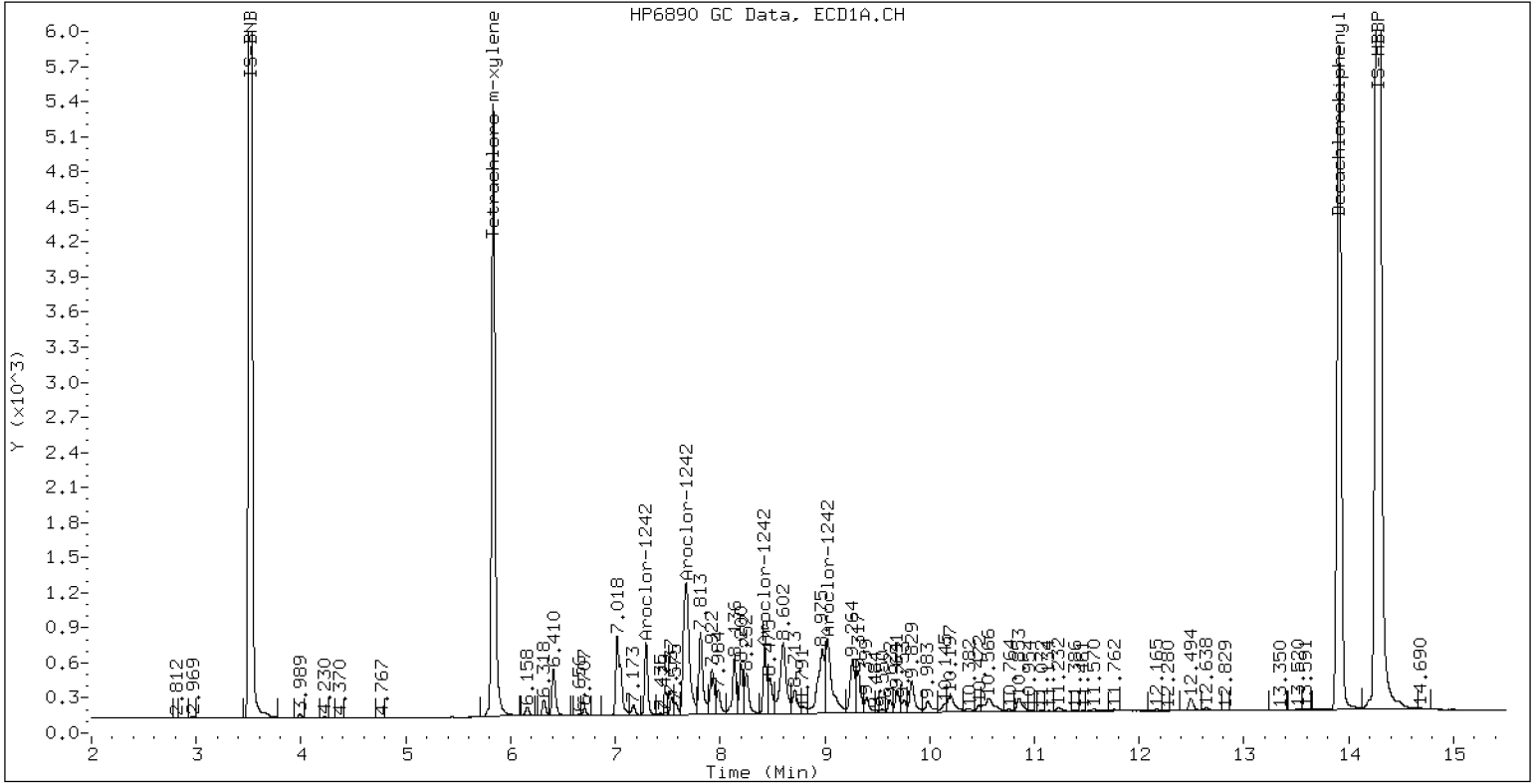
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2

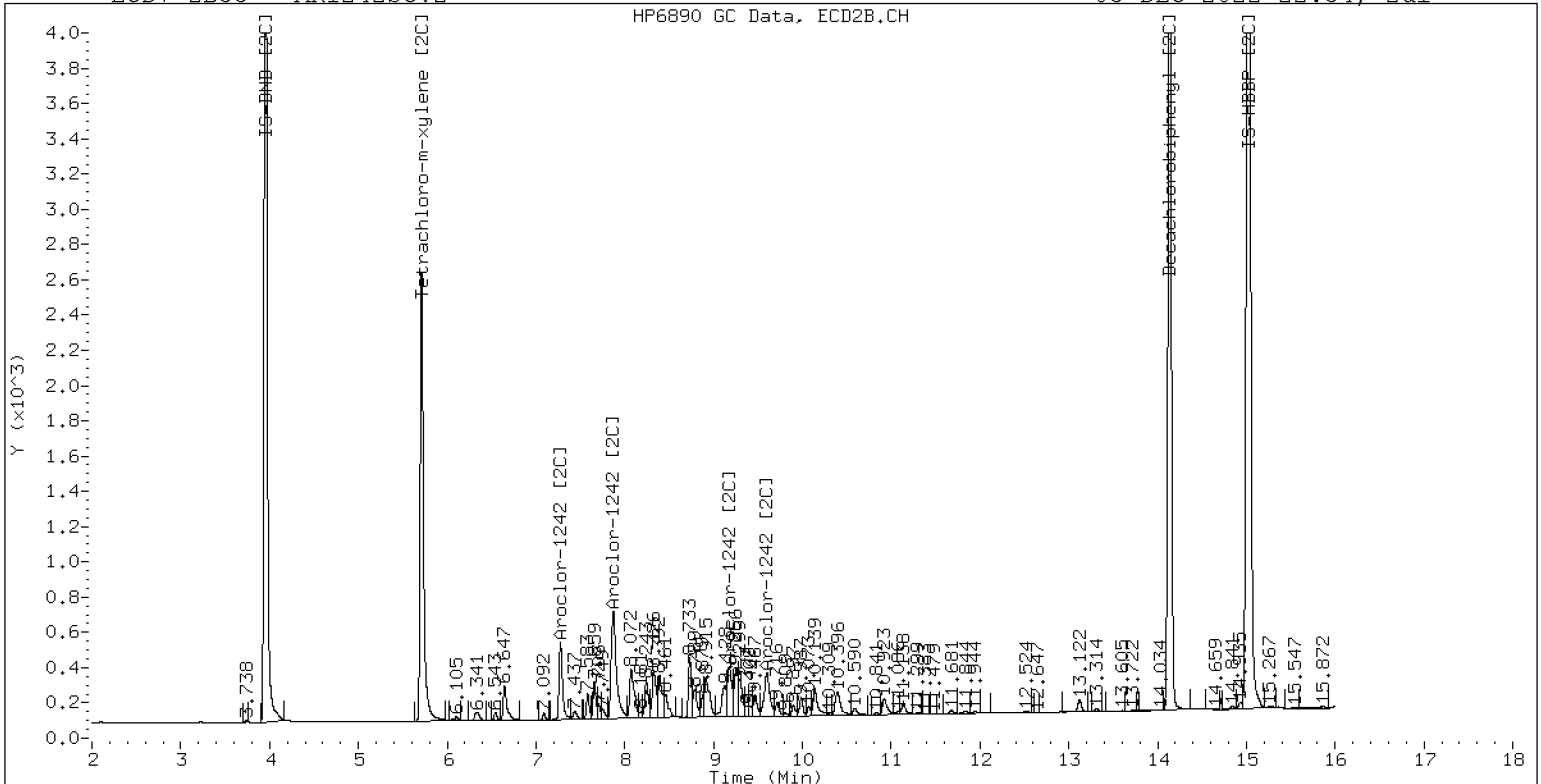
03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2

03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8	
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5	
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9	
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7	
Total Col1Ave (4 peaks):				245.5	Total Col2Ave (4 peaks):				230.2	RPD = 6	
Corrected Ave (3 peaks):				238.8	Corrected Ave (3 peaks):				230.0	RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

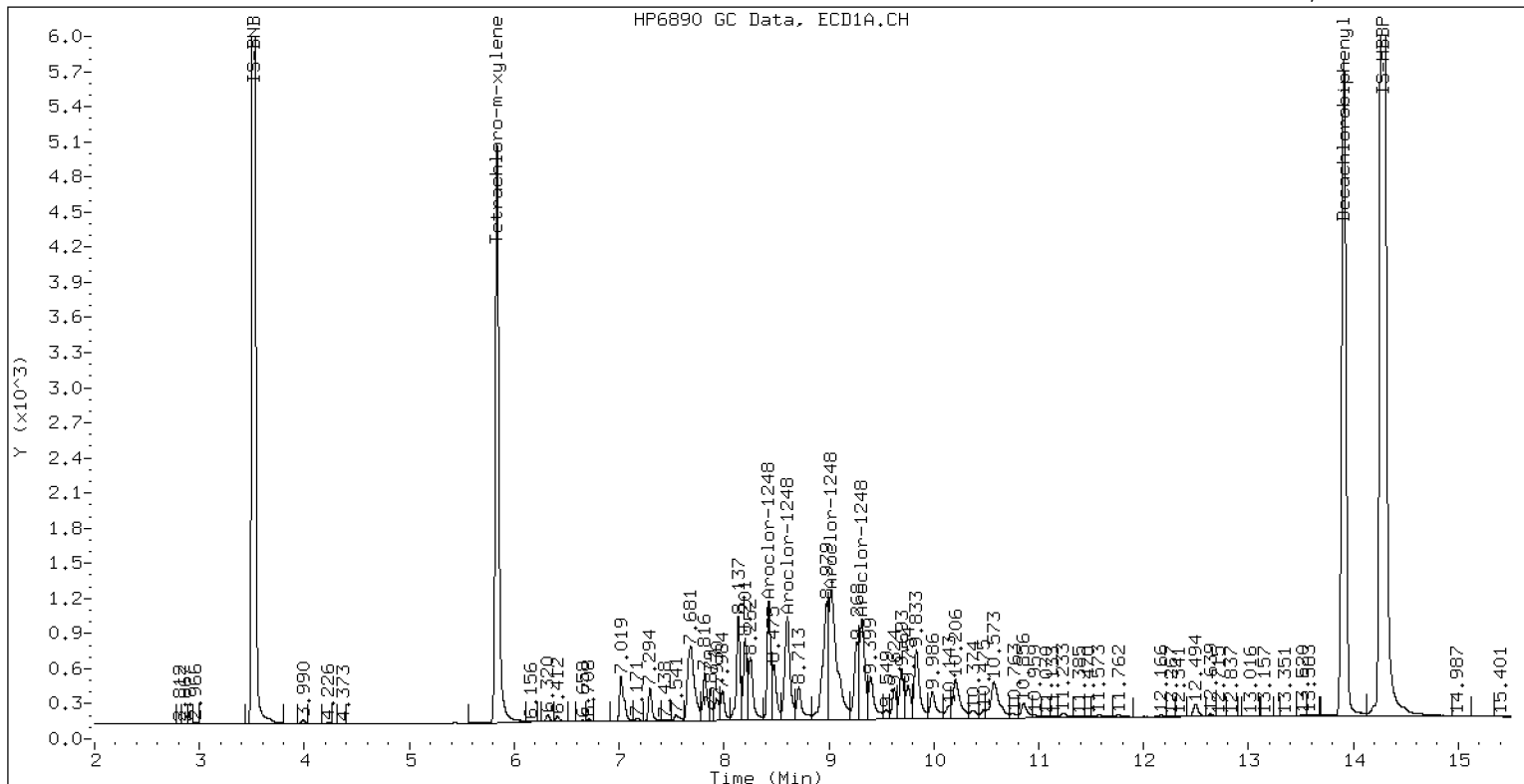
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3

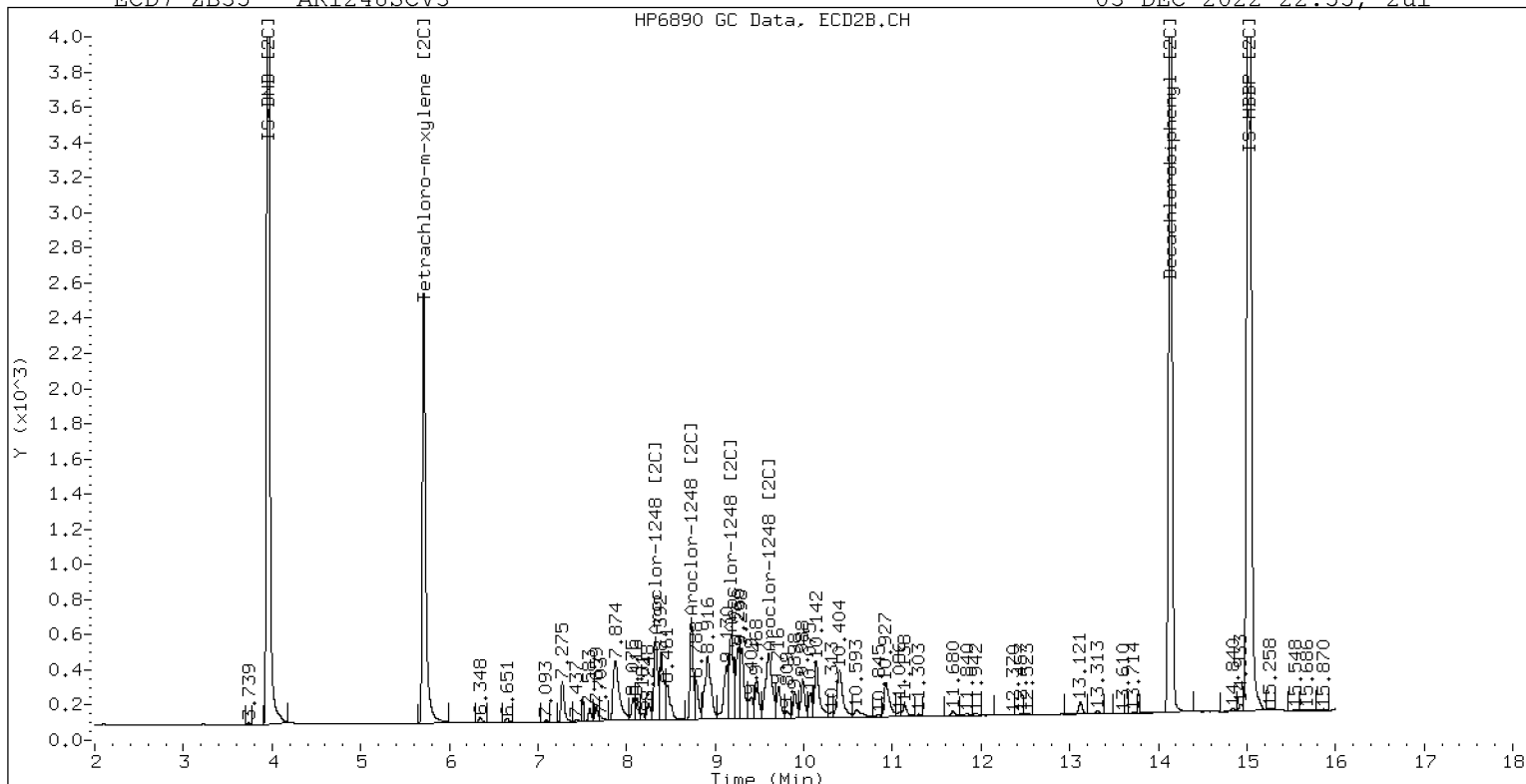
03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3

03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7	
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8	
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6	
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3	
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2	
Total CollAve (5 peaks):				227.9	Total Col2Ave (5 peaks):				230.7	RPD = 1	
Corrected Ave (4 peaks):				222.9	Corrected Ave (4 peaks):				223.4	RPD = 0	

Total PCB Area Coll (5.936 - 13.808) = 1261470 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

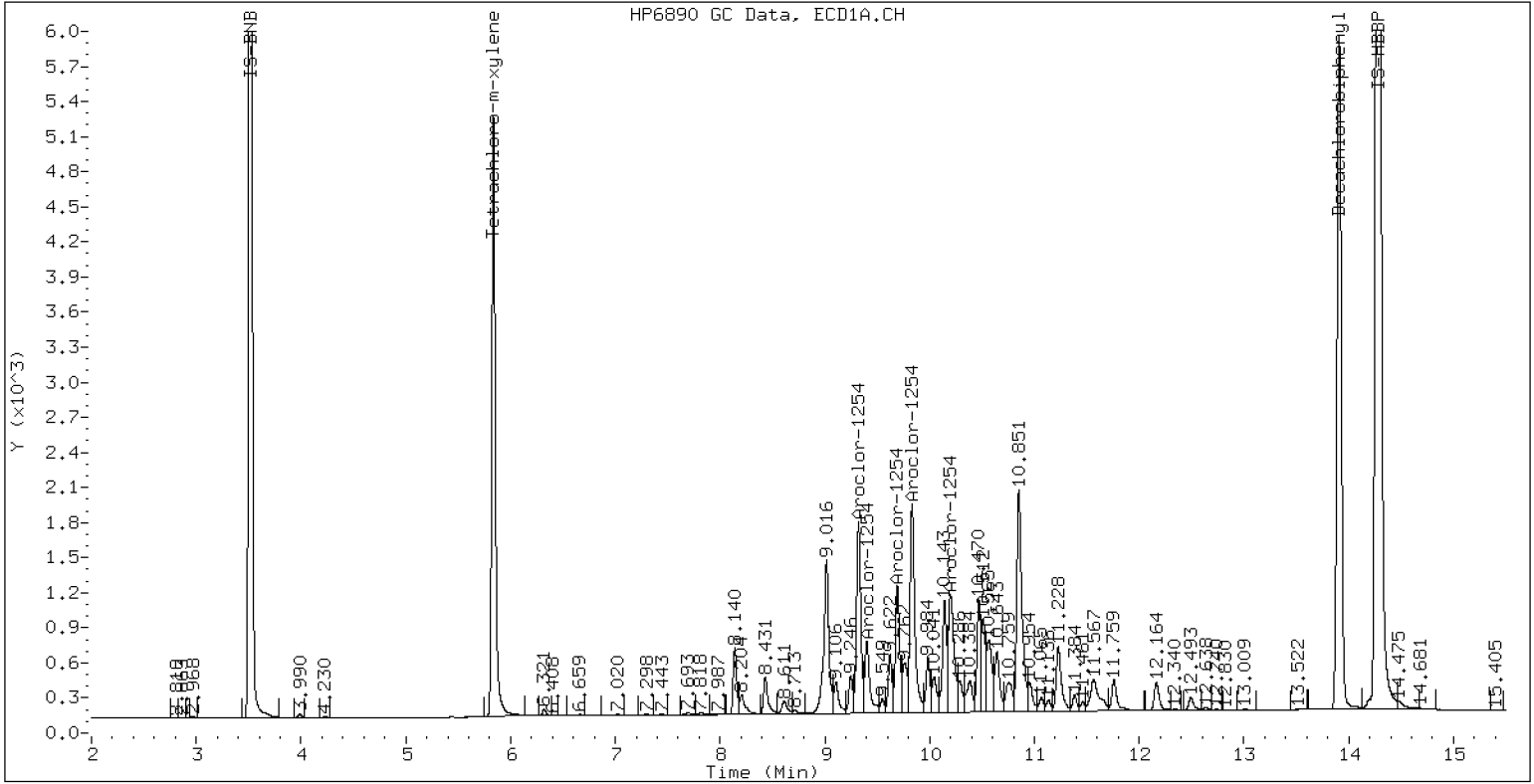
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4

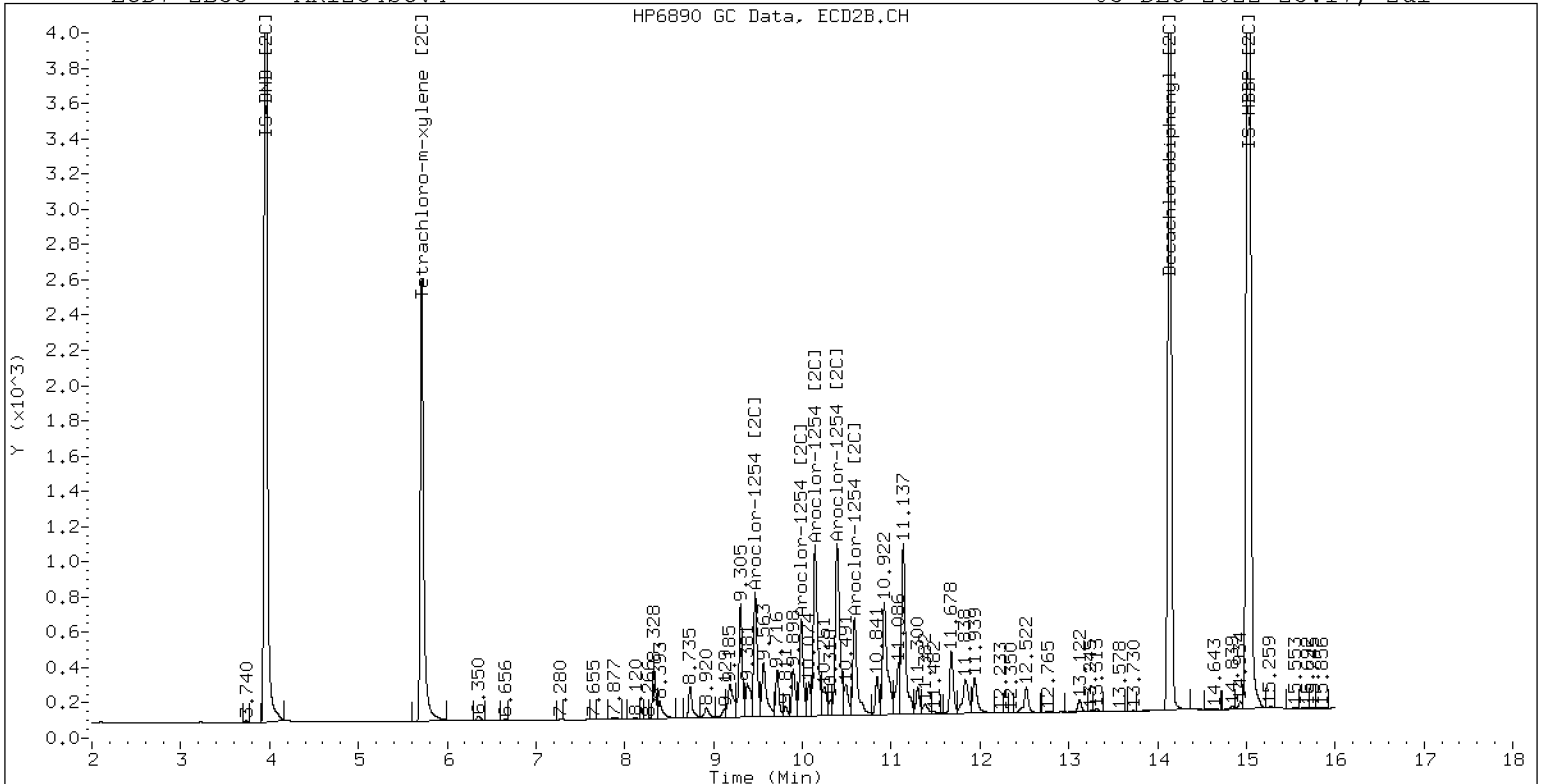
03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4

03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7	
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3	
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1	
Total CollAve (3 peaks):				236.8	Total Col2Ave (3 peaks):				235.7	RPD = 0	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3	
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9	
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8	
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1	
Total CollAve (4 peaks):				469.1	Total Col2Ave (4 peaks):				464.3	RPD = 1	
Corrected Ave (3 peaks):				466.9	Corrected Ave (3 peaks):				462.4	RPD = 1	

Total PCB Area Coll (5.936 - 13.808) = 3654831 Coll Total PCB = 0.7 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

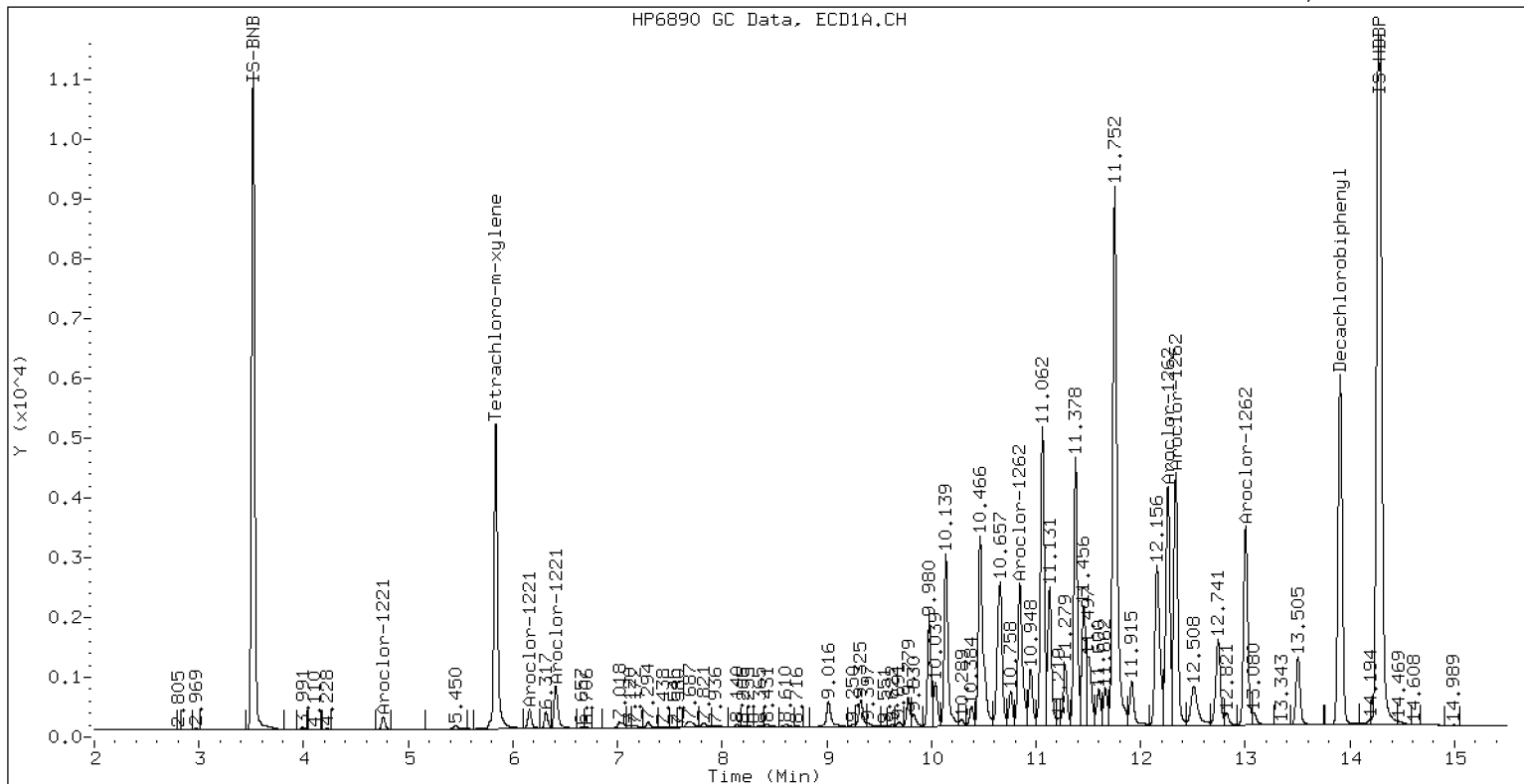
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5

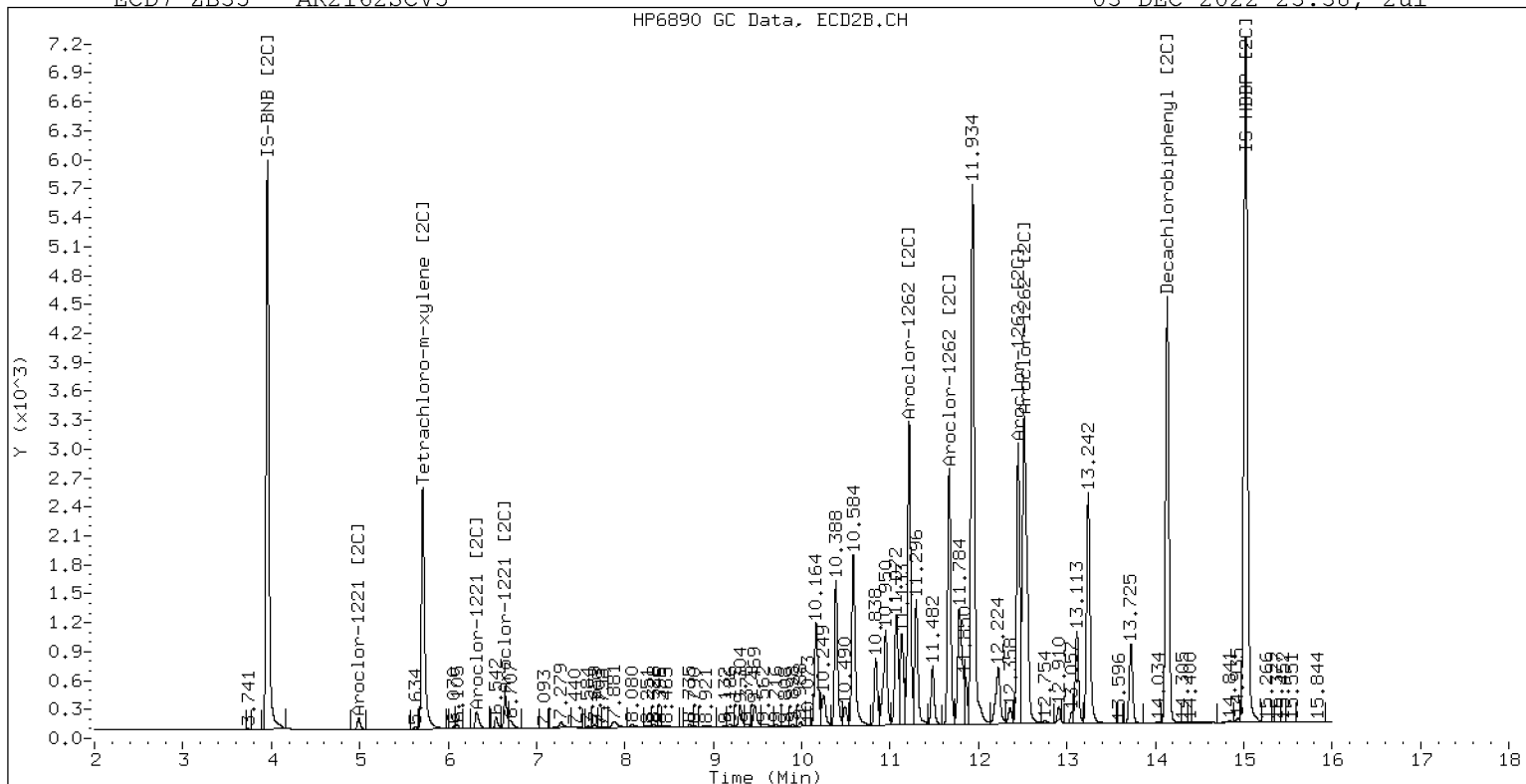
03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5

03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total CollAve (4 peaks):				216.5		Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):				213.6		Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total CollAve (4 peaks):				231.2		Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):				230.4		Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

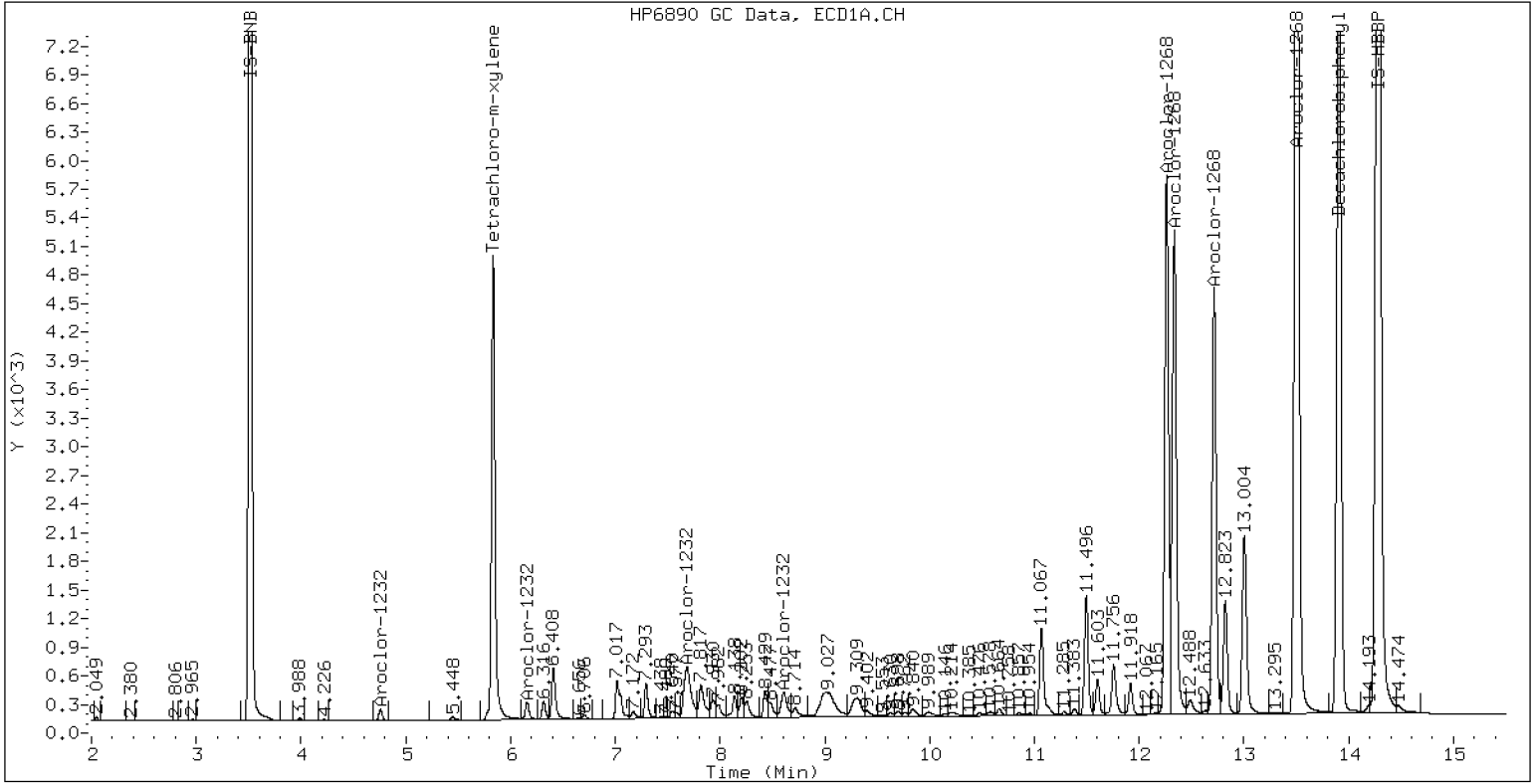
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6

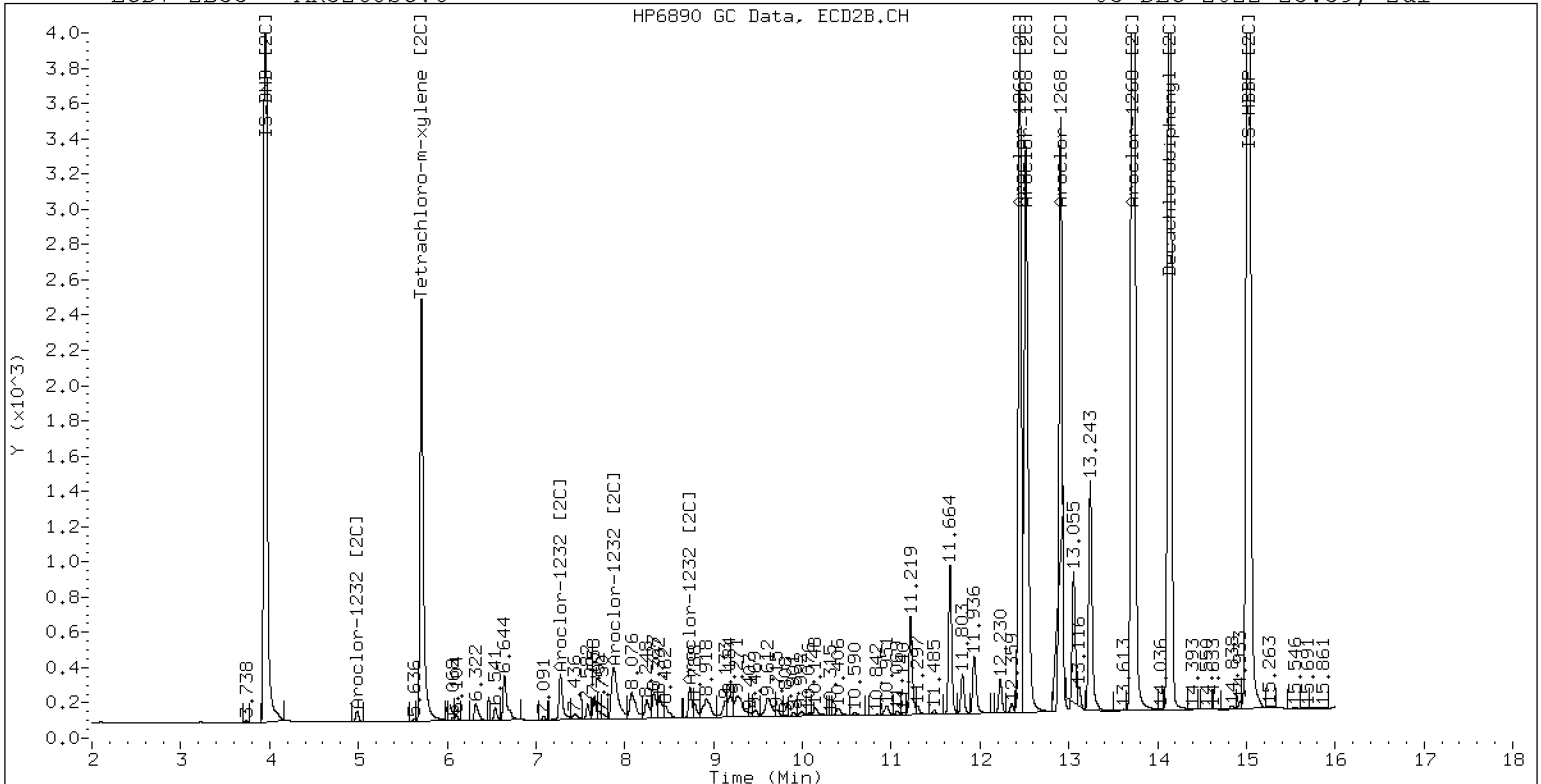
03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6

03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV1

Sequence: SKL0048

Sequence Name: AR1660SCV1

Standard ID: K007655

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	223	-10.7	20.00
Aroclor 1016 [2C]	250.00	216	-13.5	20.00
Aroclor 1260	250.00	285	14.1	20.00
Aroclor 1260 [2C]	250.00	263	5.1	20.00
Decachlorobiphenyl	40.000	39.8	-0.5	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	38.2	-4.6	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total CollAve (4 peaks):				223.3		Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):				222.5		Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total CollAve (5 peaks):				285.1		Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):				280.8		Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

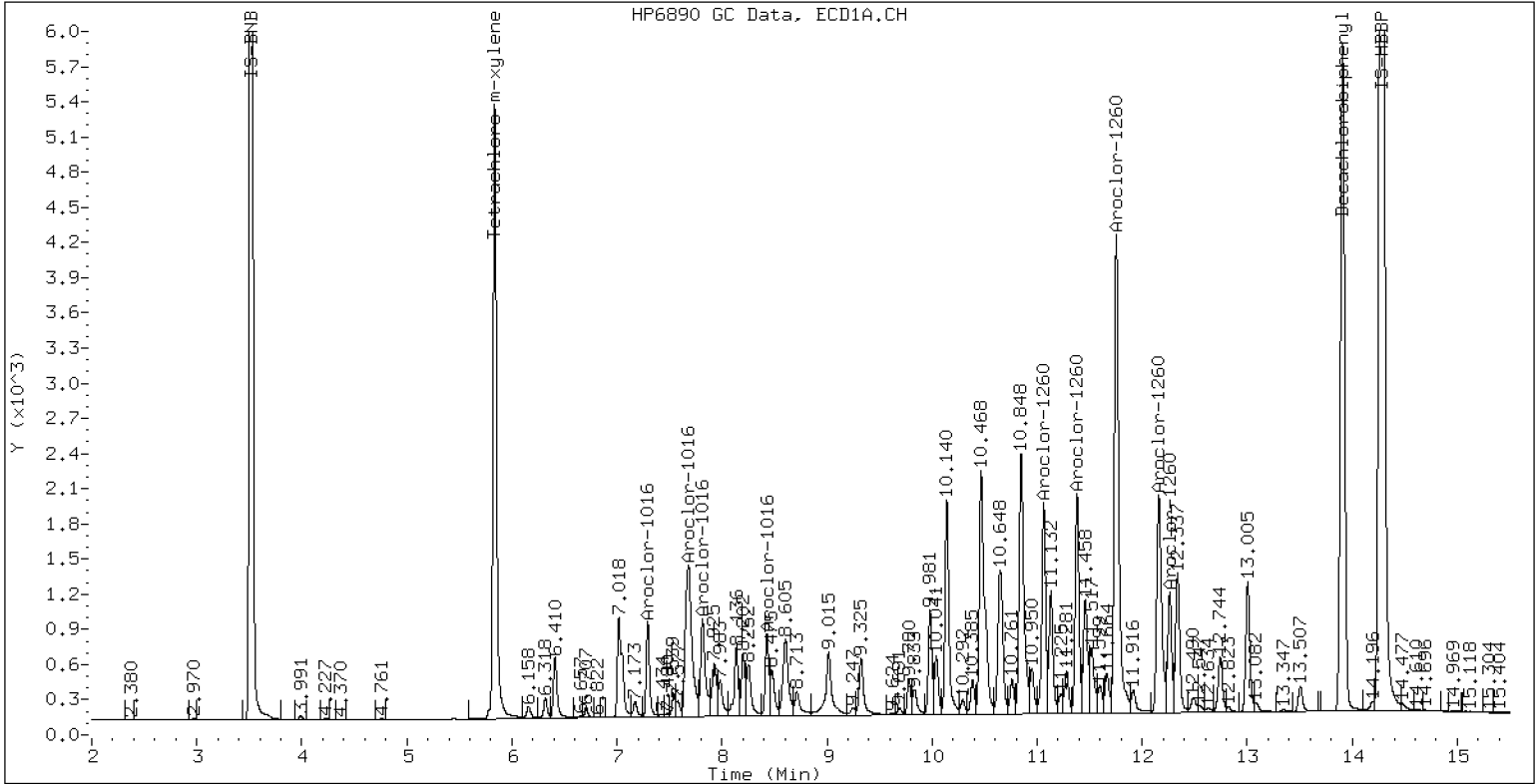
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1

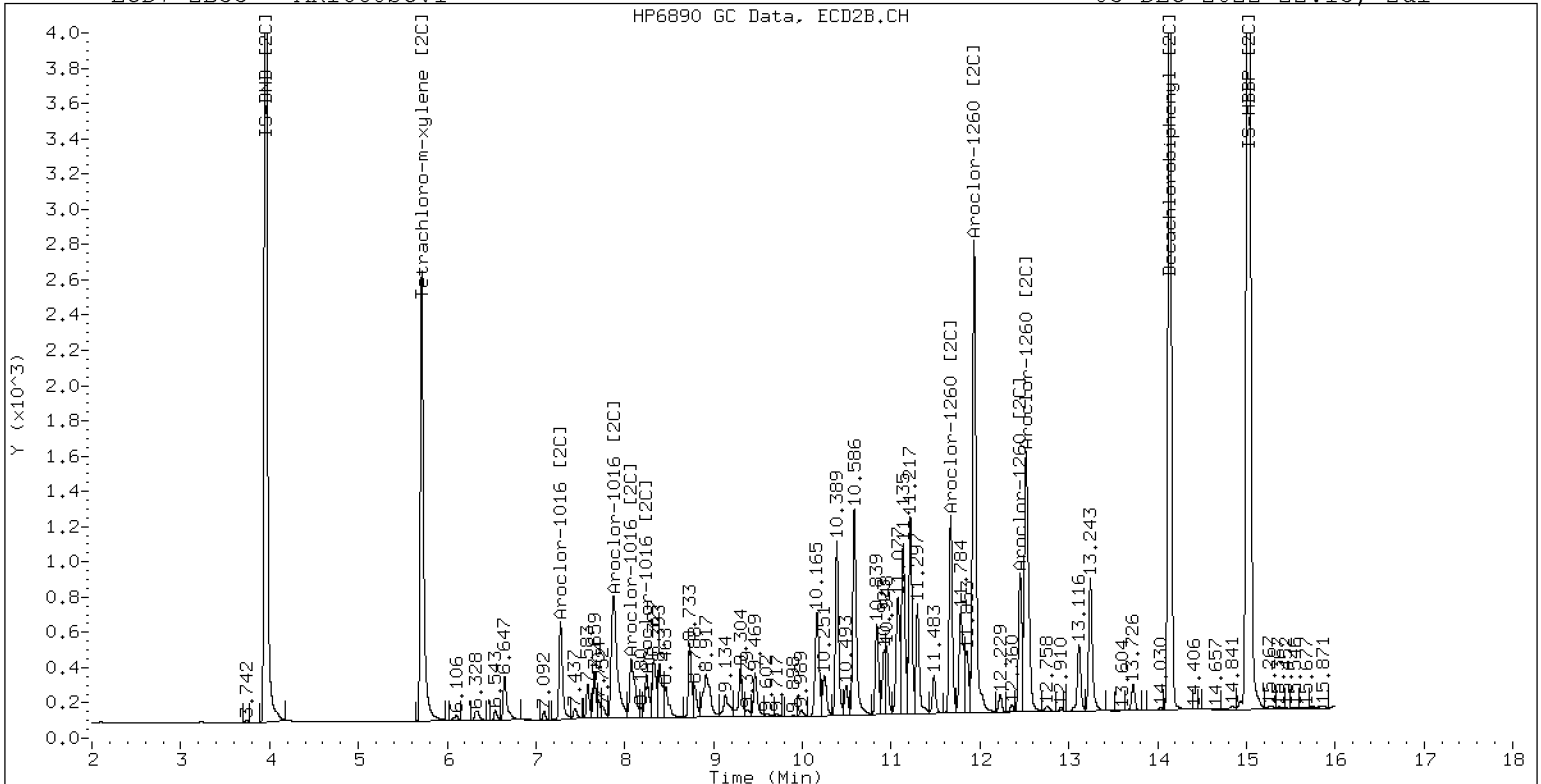
03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1

03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV2

Sequence: SKL0048

Sequence Name: AR1242SCV2

Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	207	-17.3	20.00
Aroclor 1242 [2C]	250.00	225	-10.0	20.00
Decachlorobiphenyl	40.000	39.1	-2.1	20.00
Tetrachlorometaxylene	40.000	35.6	-11.1	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.0	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.5	20.00

* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7	
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9	
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4	
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4	
Total CollAve (4 peaks):				206.7	Total Col2Ave (4 peaks):				225.1	RPD = 9	
Corrected Ave (3 peaks):				203.9	Corrected Ave (3 peaks):				216.3	RPD = 6	

Total PCB Area Coll (5.936 - 13.808) = 731052 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV3

Sequence: SKL0048

Sequence Name: AR1248SCV3

Standard ID: K007657

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	246	-1.8	20.00
Aroclor 1248 [2C]	250.00	230	-7.9	20.00
Decachlorobiphenyl	40.000	39.3	-1.7	20.00
Tetrachlorometaxylene	40.000	34.7	-13.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	35.1	-12.3	20.00

* Indicates values outside of QC limits

[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8	
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5	
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9	
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7	
Total Col1Ave (4 peaks):				245.5	Total Col2Ave (4 peaks):				230.2	RPD = 6	
Corrected Ave (3 peaks):				238.8	Corrected Ave (3 peaks):				230.0	RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

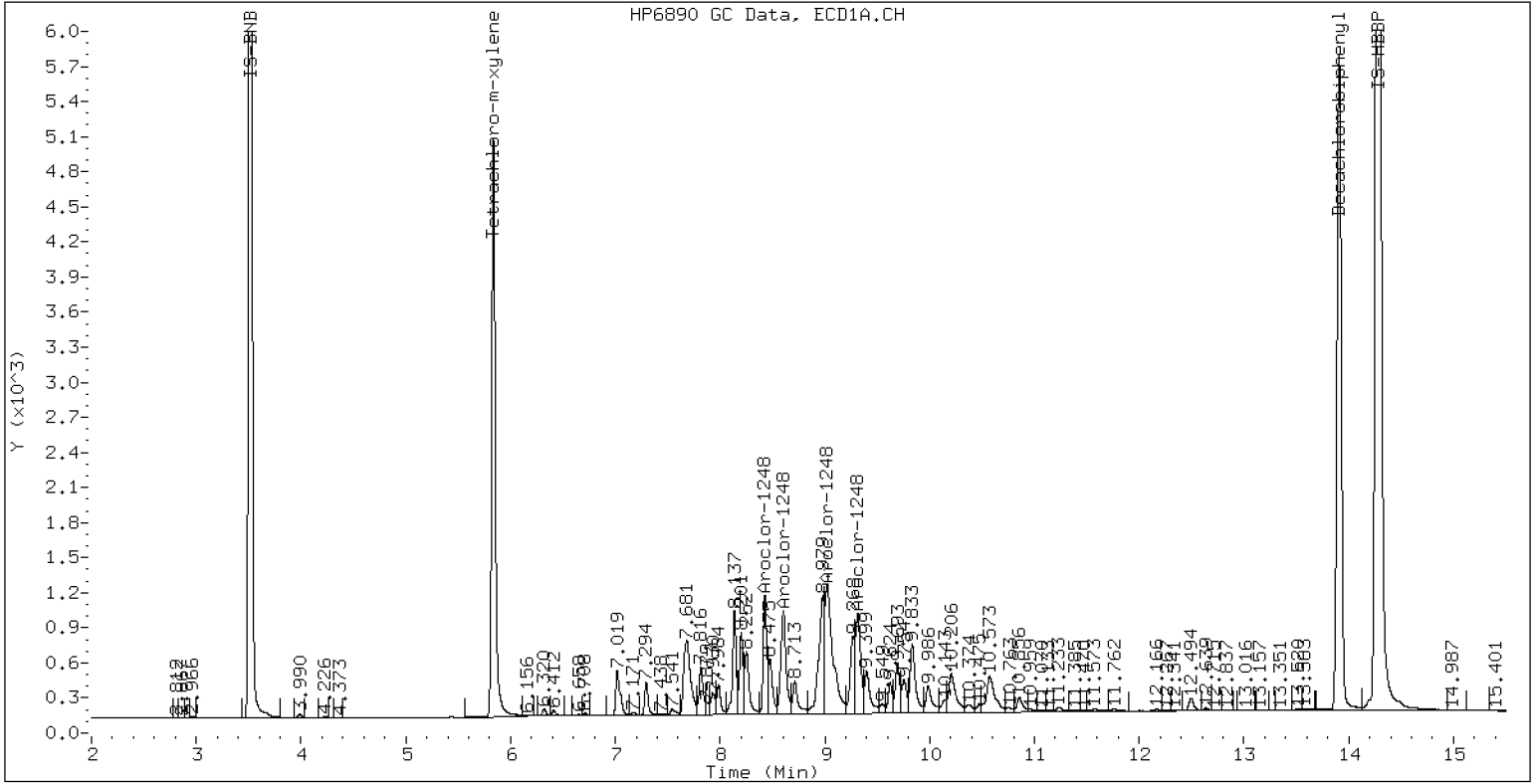
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3

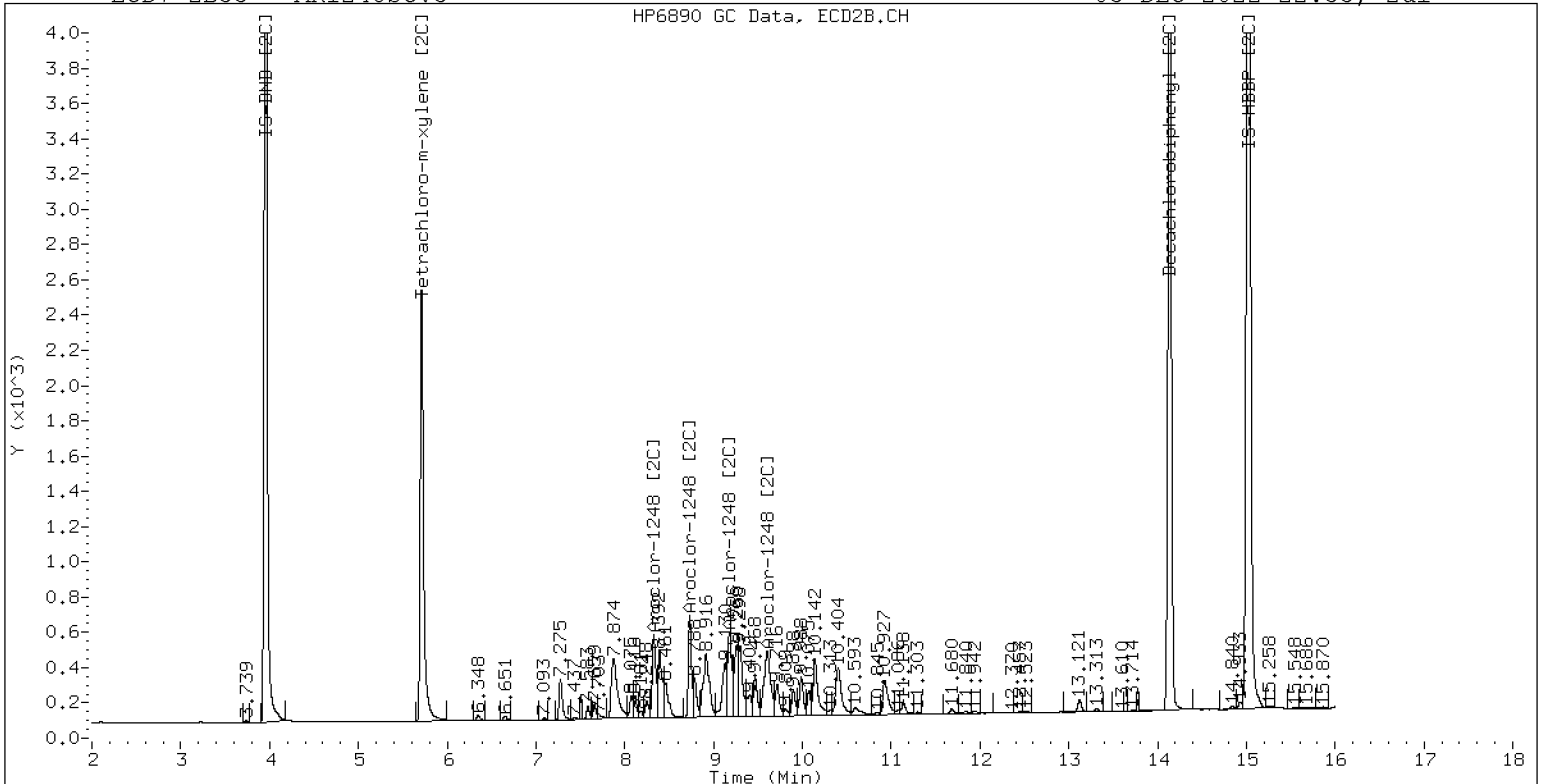
03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3

03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV4

Sequence: SKL0048

Sequence Name: AR1254SCV4

Standard ID: K007658

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	228	-8.8	20.00
Aroclor 1254 [2C]	250.00	231	-7.7	20.00
Decachlorobiphenyl	40.000	39.5	-1.1	20.00
Tetrachlorometaxylene	40.000	35.5	-11.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	36.0	-10.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7	
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8	
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6	
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3	
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2	
Total CollAve (5 peaks):				227.9	Total Col2Ave (5 peaks):				230.7	RPD = 1	
Corrected Ave (4 peaks):				222.9	Corrected Ave (4 peaks):				223.4	RPD = 0	

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

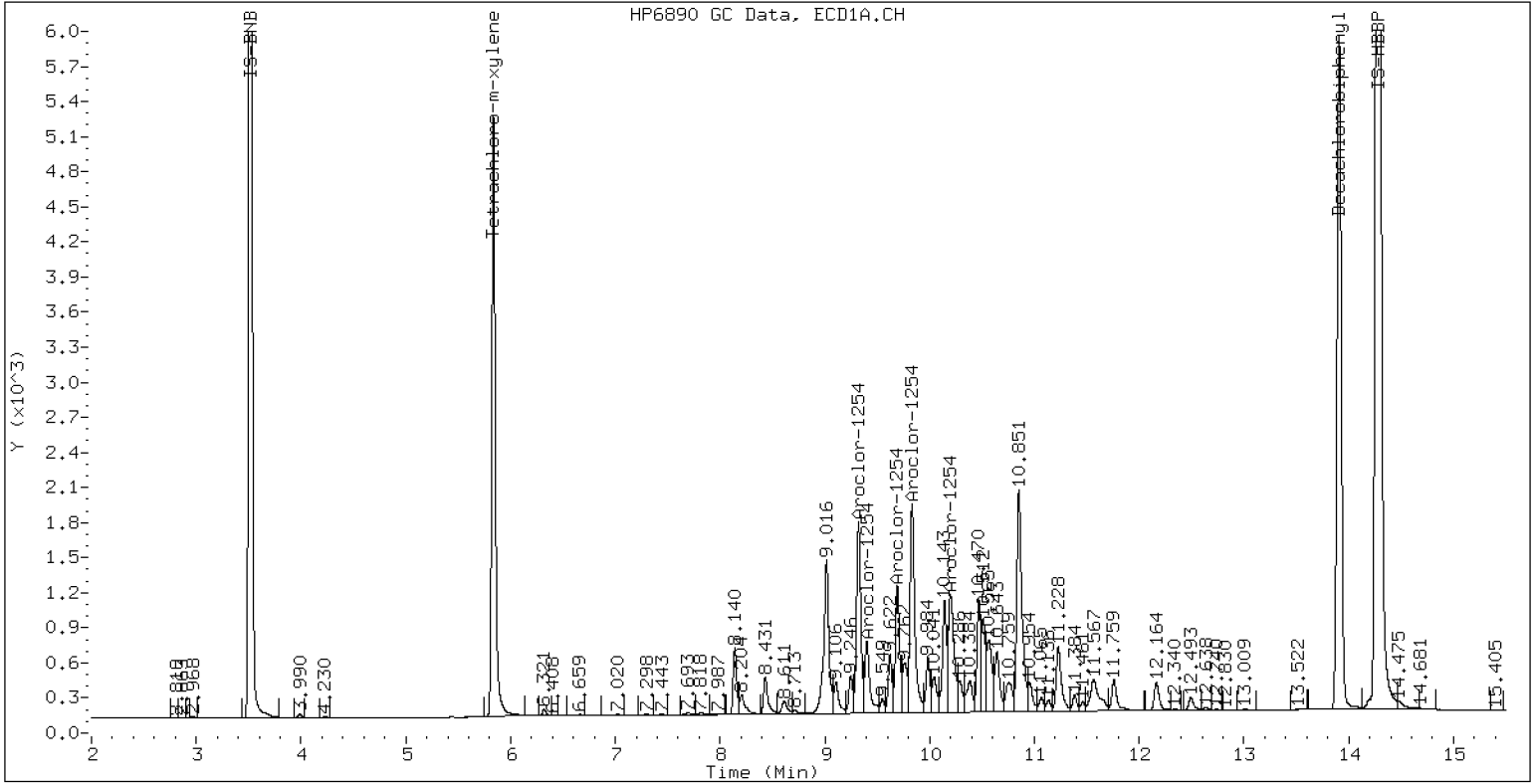
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4

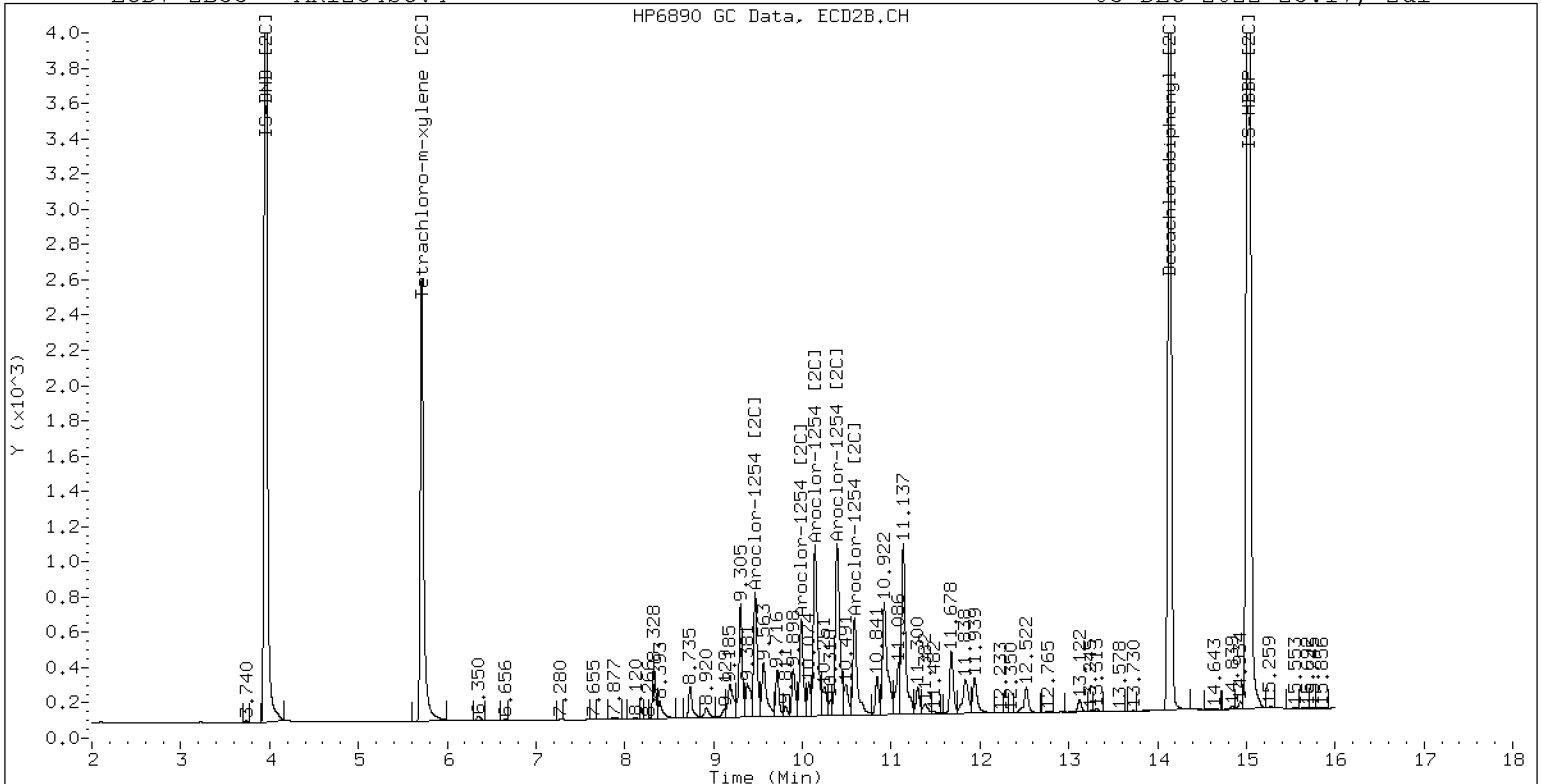
03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4

03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV5

Sequence: SKL0048

Sequence Name: AR2162SCV5

Standard ID: K007659

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	237	-5.3	20.00
Aroclor 1221 [2C]	250.00	236	-5.7	20.00
Aroclor 1262	500.00	469	-6.2	20.00
Aroclor 1262 [2C]	500.00	464	-7.1	20.00
Decachlorobiphenyl	40.000	40.0	-0.04	20.00
Tetrachlorometaxylene	40.000	36.1	-9.8	20.00
Decachlorobiphenyl [2C]	40.000	38.4	-3.9	20.00
Tetrachlorometaxylene [2C]	40.000	35.7	-10.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7	
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3	
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1	
Total CollAve (3 peaks):				236.8	Total Col2Ave (3 peaks):				235.7	RPD = 0	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3	
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9	
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8	
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1	
Total CollAve (4 peaks):				469.1	Total Col2Ave (4 peaks):				464.3	RPD = 1	
Corrected Ave (3 peaks):				466.9	Corrected Ave (3 peaks):				462.4	RPD = 1	

Total PCB Area Coll (5.936 - 13.808) = 3654831 Coll Total PCB = 0.7 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

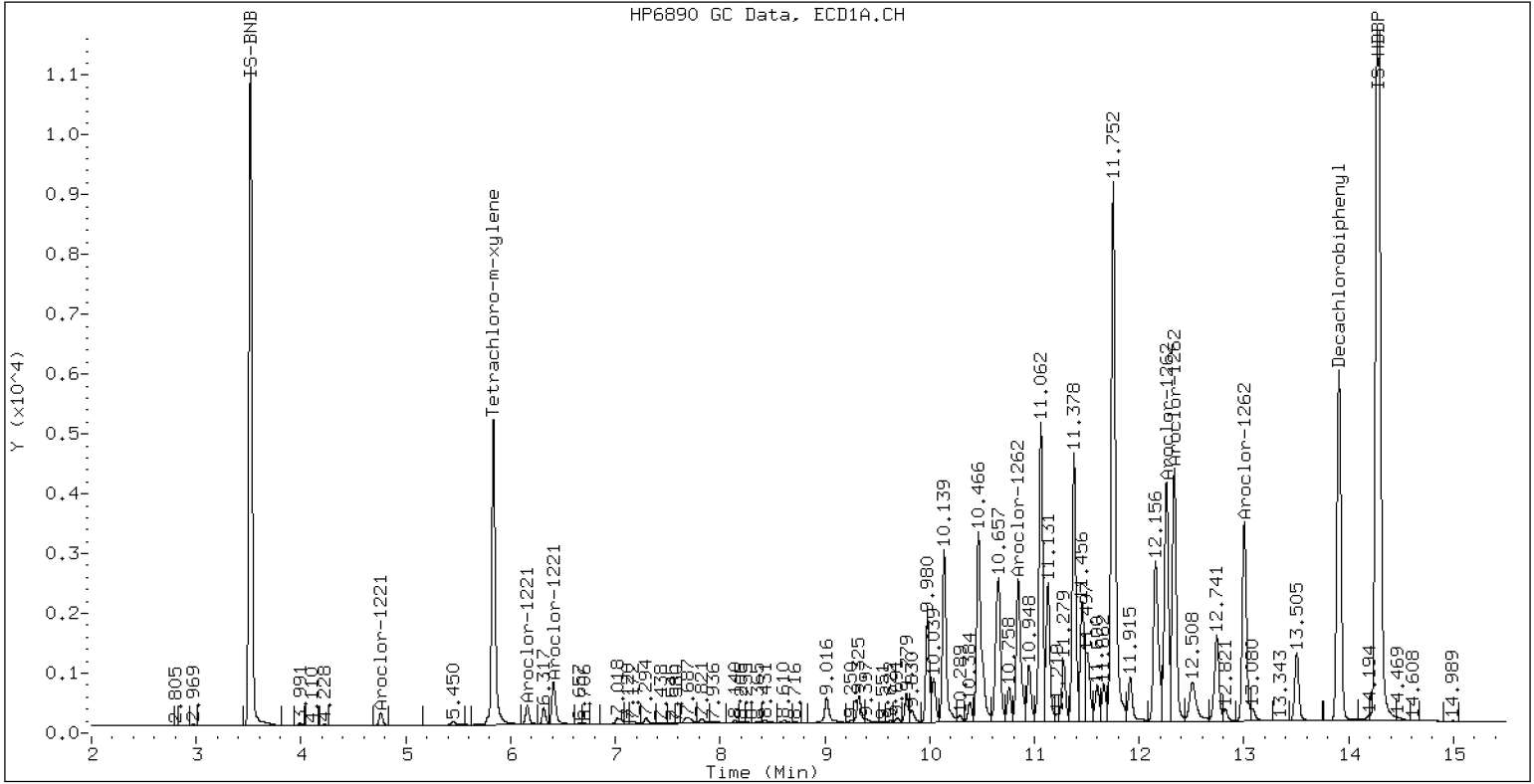
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5

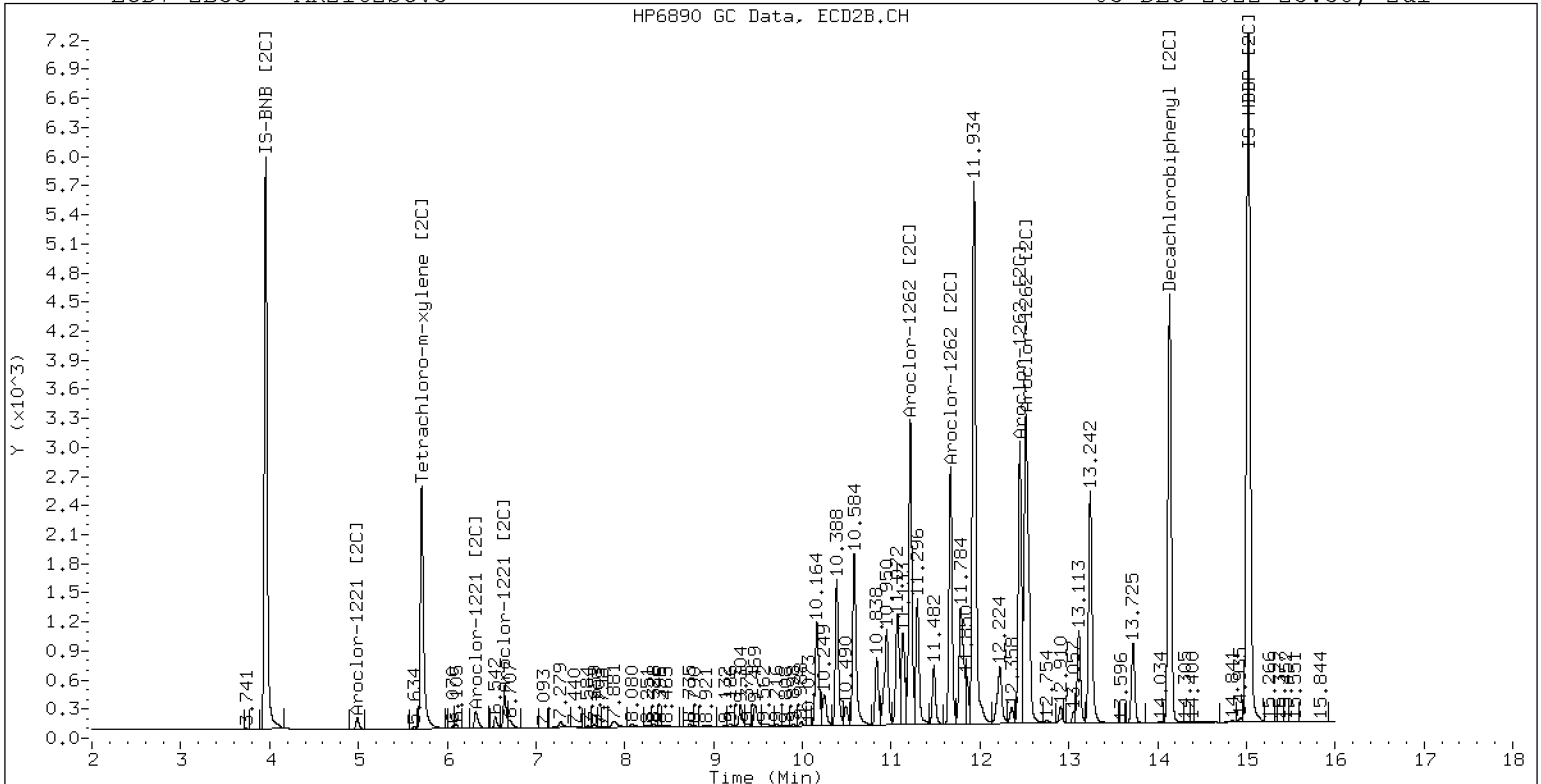
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ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5

03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FL00010

Laboratory ID: SKL0048-SCV6

Sequence: SKL0048

Sequence Name: AR3268SCV6

Standard ID: K007660

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	217	-13.4	20.00
Aroclor 1232 [2C]	250.00	230	-7.9	20.00
Aroclor 1268	250.00	231	-7.5	20.00
Aroclor 1268 [2C]	250.00	228	-8.9	20.00
Decachlorobiphenyl	40.000	56.2	40.4	20.00
Tetrachlorometaxylene	40.000	34.5	-13.8	20.00
Decachlorobiphenyl [2C]	40.000	54.9	37.3	20.00
Tetrachlorometaxylene [2C]	40.000	34.2	-14.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total CollAve (4 peaks):				216.5		Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):				213.6		Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total CollAve (4 peaks):				231.2		Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):				230.4		Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

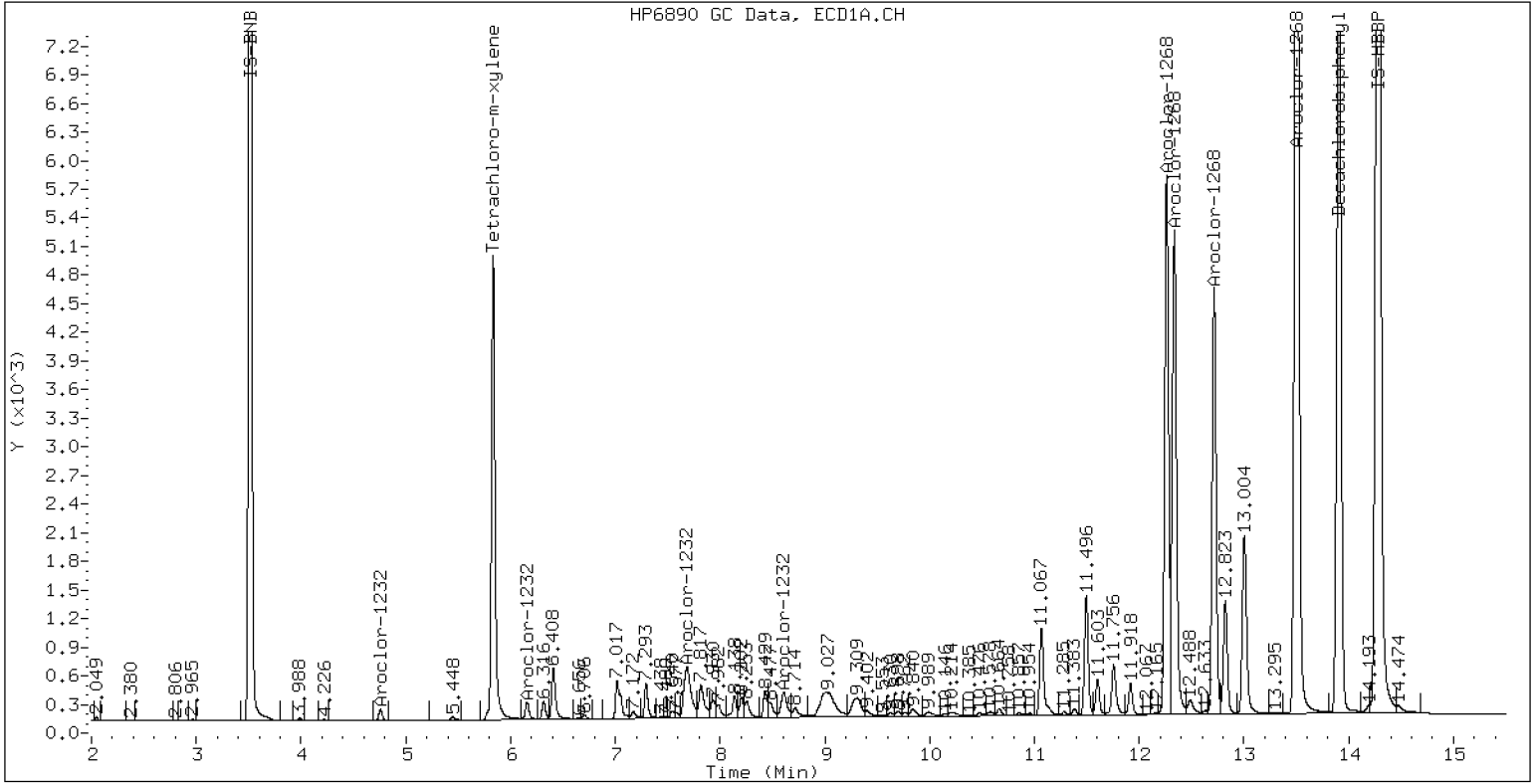
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6

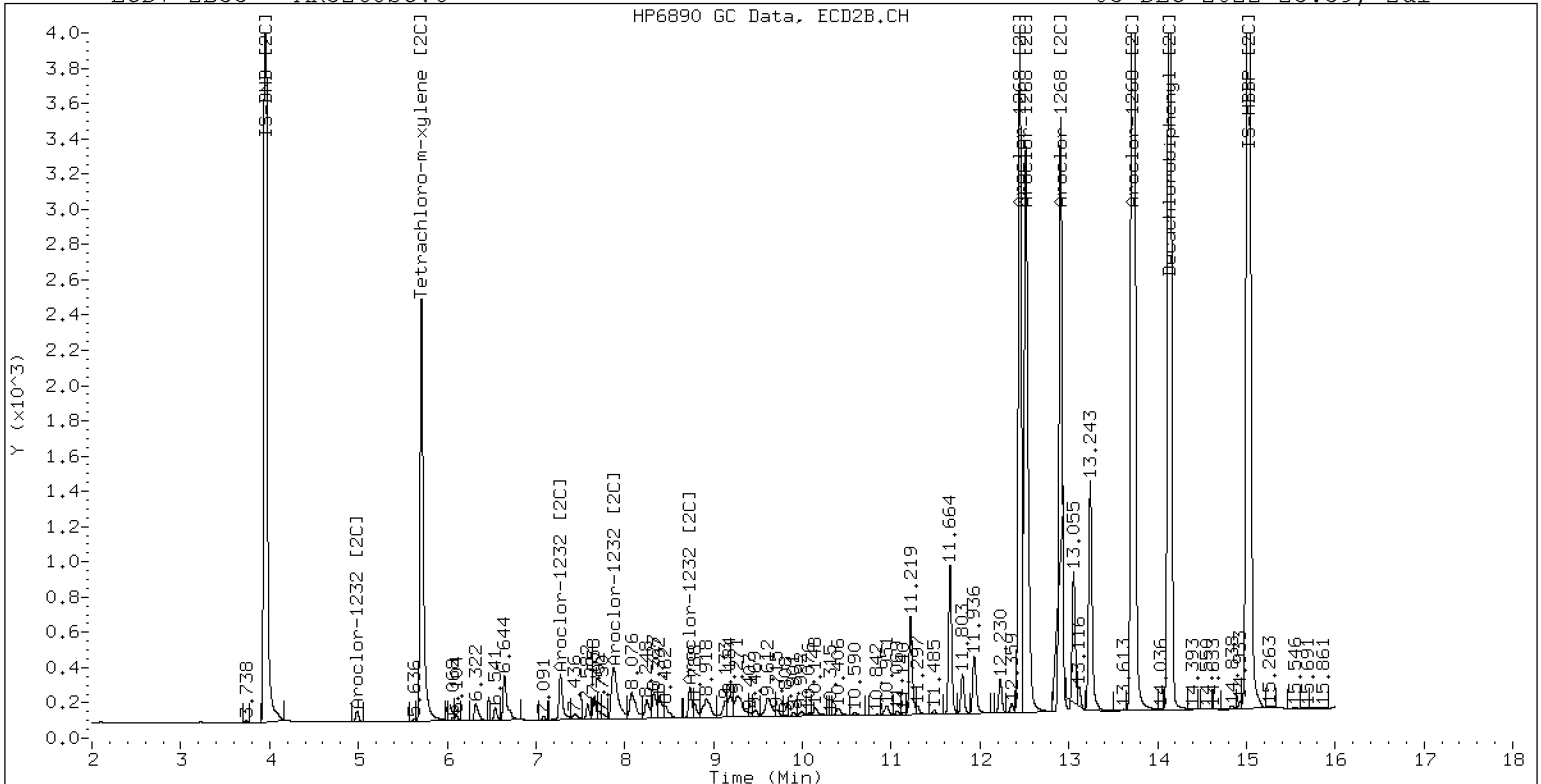
03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6

03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC
 Client: Anchor OEA, LLC
 Instrument ID: ECD7
 Lab File ID: 12172203ECD7.D
 Sequence: SKL0280
 Lab Sample ID: SKL0280-ICV1
 Sequence Name: AR1254ICV1

SDG: 22L0104
 Project: AOC4 UR Phase 3
 Calibration: FL00010
 Calibration Date: 12/03/2022
 Injection Date: 12/17/22
 Injection Time: 09:59

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	273	0.0576965	0.0640173		9.1	+/-20
Aroclor-1254 (1)	A	250.00	280	0.0704377	0.0789482			
Aroclor-1254 (2)	A	250.00	292	0.0273935	0.0320037			
Aroclor-1254 (3)	A	250.00	191	0.0444885	0.0339349			
Aroclor-1254 (4)	A	250.00	295	0.0867185	0.1023397			
Aroclor-1254 (5)	A	250.00	306	0.0594444	0.0728599			
Aroclor 1254 [2C]	A	250.00	253	0.0638047	0.0652171		1.3	+/-20
Aroclor-1254 (1) [2C]	A	250.00	263	0.0515798	0.0542031			
Aroclor-1254 (2) [2C]	A	250.00	205	0.0414689	0.0340182			
Aroclor-1254 (3) [2C]	A	250.00	243	0.0891370	0.0868021			
Aroclor-1254 (4) [2C]	A	250.00	274	0.0923140	0.1010644			
Aroclor-1254 (5) [2C]	A	250.00	281	0.0445236	0.0499976			
Decachlorobiphenyl	A	40.000	41.8	0.7333327	0.7666939		4.5	+/-20
Tetrachlorometaxylene	A	40.000	37.9	1.1336710	1.0737050		-5.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.8	1.1358180	1.1020210		-3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.2	1.0966080	1.0193470		-7.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172203ECD7.D
Data file 2: /221217.b/221217.b/12172203ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 17-DEC-2022 09:59
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	226665	5.712	0.002	128134	37.9	37.2	1.9	Tetrachloro-m-xylene
13.908	-0.000	375864	14.135	0.002	244560	41.8	38.8	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	422211	-5.7
Hexabromobiphenyl	798898	980480	22.7
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251404	0.9
Hexabromobiphenyl	362541	443839	22.4

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.319	-0.002	104165	280.2	1	9.466	0.002	42584	262.7	
Aroclor-1254	2	9.399	-0.003	42226	292.1	2	9.983	0.002	26726	205.1	
Aroclor-1254	3	9.693	-0.001	44774	190.7	3	10.137	0.003	68195	243.5	
Aroclor-1254	4	9.827	-0.004	135028	295.0	4	10.385	0.003	79400	273.7	
Aroclor-1254	5	10.186	-0.003	96132	306.4	5	10.581	0.002	39280	280.7	
Total CollAve (5 peaks):				272.9		Total Col2Ave (5 peaks):				253.1	RPD = 8
Corrected Ave (4 peaks):				264.5		Corrected Ave (4 peaks):				246.2	RPD = 7
CalAmt %D:				9.2		CalAmt %D:				1.3	

Total PCB Area Col1 (5.936 - 13.808) = 1420446 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 727604 Col2 Total PCB = 0.4 ppm*

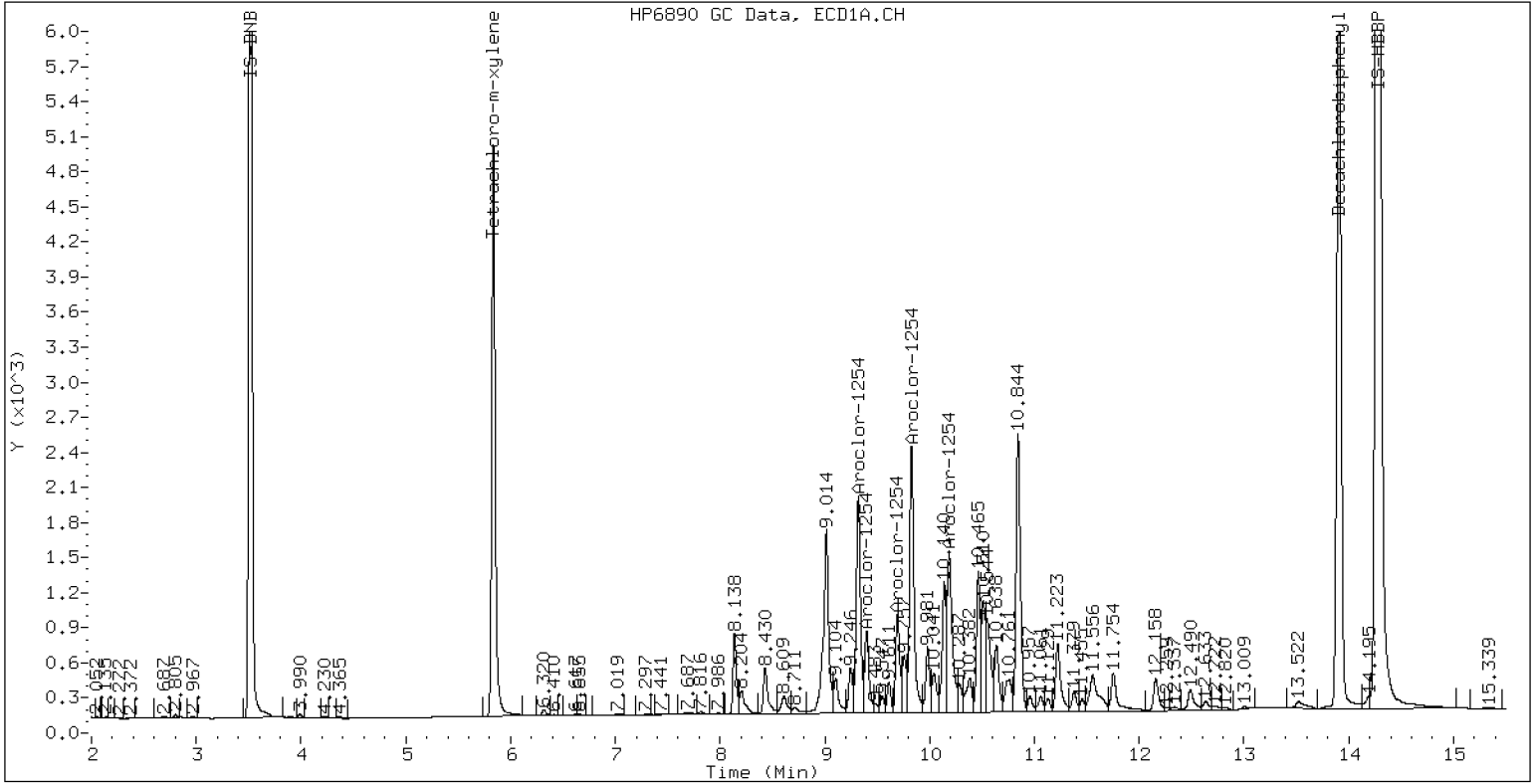
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1

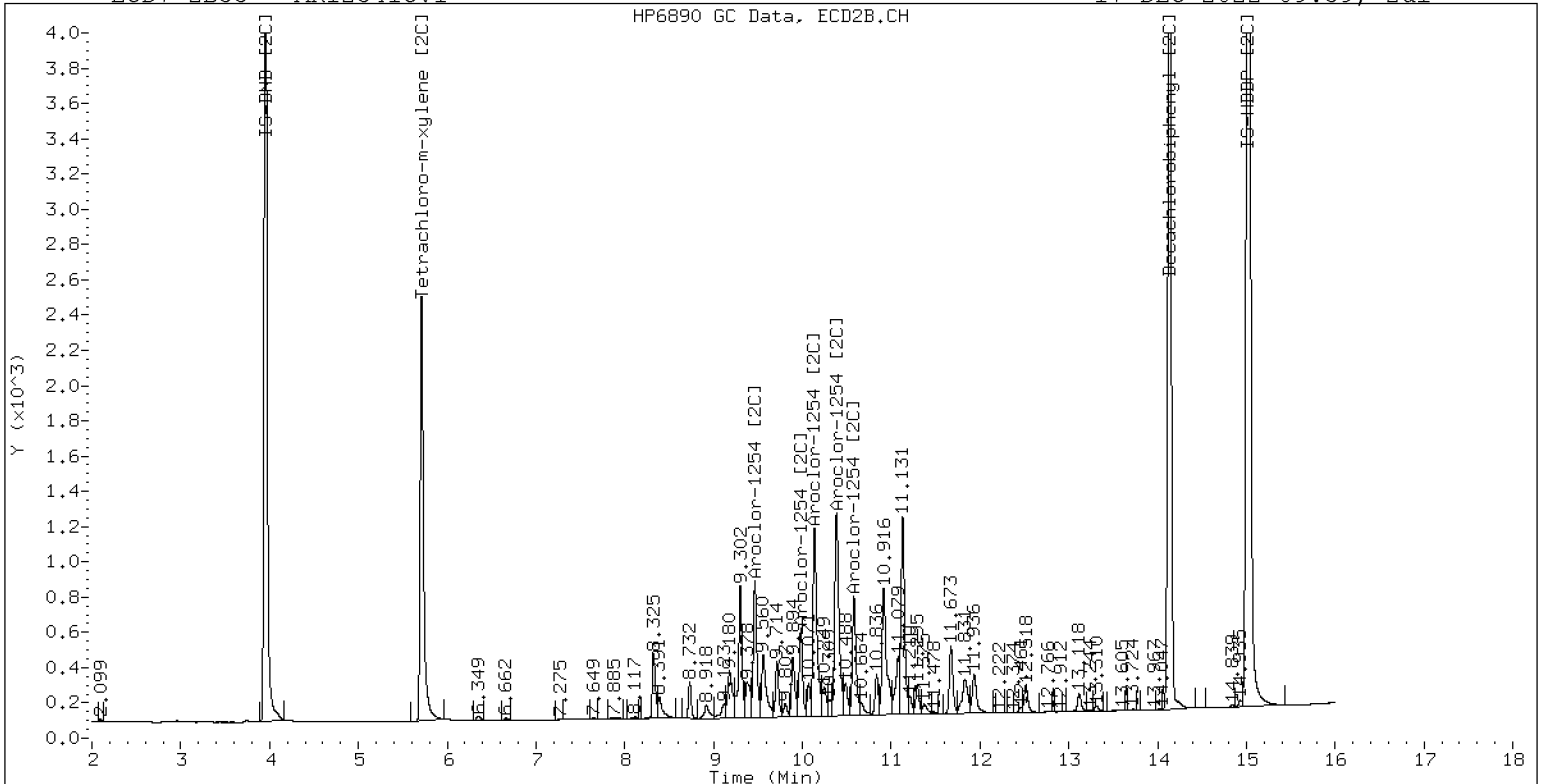
17-DEC-2022 09:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1

17-DEC-2022 09:59, 2ul



ZB-35 Manual Integration: NO



INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172204ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/17/22

Lab Sample ID: SKL0280-ICV2

Injection Time: 10:20

Sequence Name: AR1660ICV2

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	285	0.0441939	0.0495552		13.9	+/-20
Aroclor-1016 (1)	A	250.00	276	0.0266860	0.0294632		10.4	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0930307		8.0	
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459871		17.6	
Aroclor-1016 (4)	A	250.00	299	0.0248899	0.0297395		19.6	
Aroclor 1016 [2C]	A	250.00	245	0.0467310	0.0450736		-2.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	247	0.0409030	0.0404894		-1.2	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0827982		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365832		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	256	0.0199212	0.0204237		2.4	
Aroclor 1260	A	250.00	252	0.0390342	0.0392048		1.0	+/-20
Aroclor-1260 (1)	A	250.00	247	0.0291201	0.0287555		-1.2	
Aroclor-1260 (2)	A	250.00	255	0.0301181	0.0306758		2.0	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804670		1.6	
Aroclor-1260 (4)	A	250.00	238	0.0403003	0.0384280		-4.8	
Aroclor-1260 (5)	A	250.00	268	0.0164974	0.0176979		7.2	
Aroclor 1260 [2C]	A	250.00	207	0.0617619	0.0510026		-17.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	201	0.0422283	0.0339109		-19.6	
Aroclor-1260 (2) [2C]	A	250.00	202	0.1059643	0.0858582		-19.2	
Aroclor-1260 (3) [2C]	A	250.00	213	0.0282173	0.0240257		-14.8	
Aroclor-1260 (4) [2C]	A	250.00	213	0.0706376	0.0602156		-14.8	
Decachlorobiphenyl	A	40.000	42.7	0.7333327	0.7832462		6.8	+/-20
Tetrachlorometaxylene	A	40.000	40.7	1.1336710	1.1529790		1.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0833480		-4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.0966080	1.0661210		-2.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172204ECD7.D
Data file 2: /221217.b/221217.b/12172204ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 17-DEC-2022 10:20
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.001	204987	5.714	0.004	114849	40.7	38.9	4.5	Tetrachloro-m-xylene
13.907	-0.000	340839	14.135	0.001	216012	42.7	38.2	11.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	355578	-20.6
Hexabromobiphenyl	798898	870324	8.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	215452	-13.5
Hexabromobiphenyl	362541	398786	10.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	-0.000	32739	276.0	1	7.277	0.003	27261	247.5
Aroclor-1016	2	7.681	-0.003	103374	269.9	2	7.876	0.003	55747	234.6
Aroclor-1016	3	7.816	-0.001	51100	294.5	3	8.076	0.003	24631	241.4
Aroclor-1016	4	8.428	-0.001	33046	298.7	4	8.246	0.003	13751	256.3
Total CollAve (4 peaks):				284.8		Total Col2Ave (4 peaks):				245.0 RPD = 15
Corrected Ave (3 peaks):				280.1		Corrected Ave (3 peaks):				241.2 RPD = 15
CalAmt %D:				13.9		CalAmt %D:				-2.0
Aroclor-1260	1	11.062	-0.001	78208	246.9	1	11.669	0.002	42260	200.8
Aroclor-1260	2	11.377	-0.000	83431	254.6	2	11.932	0.002	106997	202.6
Aroclor-1260	3	11.752	-0.000	218851	254.2	3	12.451	0.002	29941	212.9
Aroclor-1260	4	12.158	-0.001	104515	238.4	4	12.516	0.003	75041	213.1
Aroclor-1260	5	12.261	-0.001	48134	268.2	NS	---			----
Total CollAve (5 peaks):				252.5		Total Col2Ave (4 peaks):				207.3 RPD = 20
Corrected Ave (4 peaks):				248.5		Corrected Ave (3 peaks):				205.4 RPD = 19
CalAmt %D:				1.0		CalAmt %D:				-17.1

Total PCB Area Coll (5.936 - 13.808) = 2330657 Coll Total PCB = 0.6 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1047864 Col2 Total PCB = 0.7 ppm*

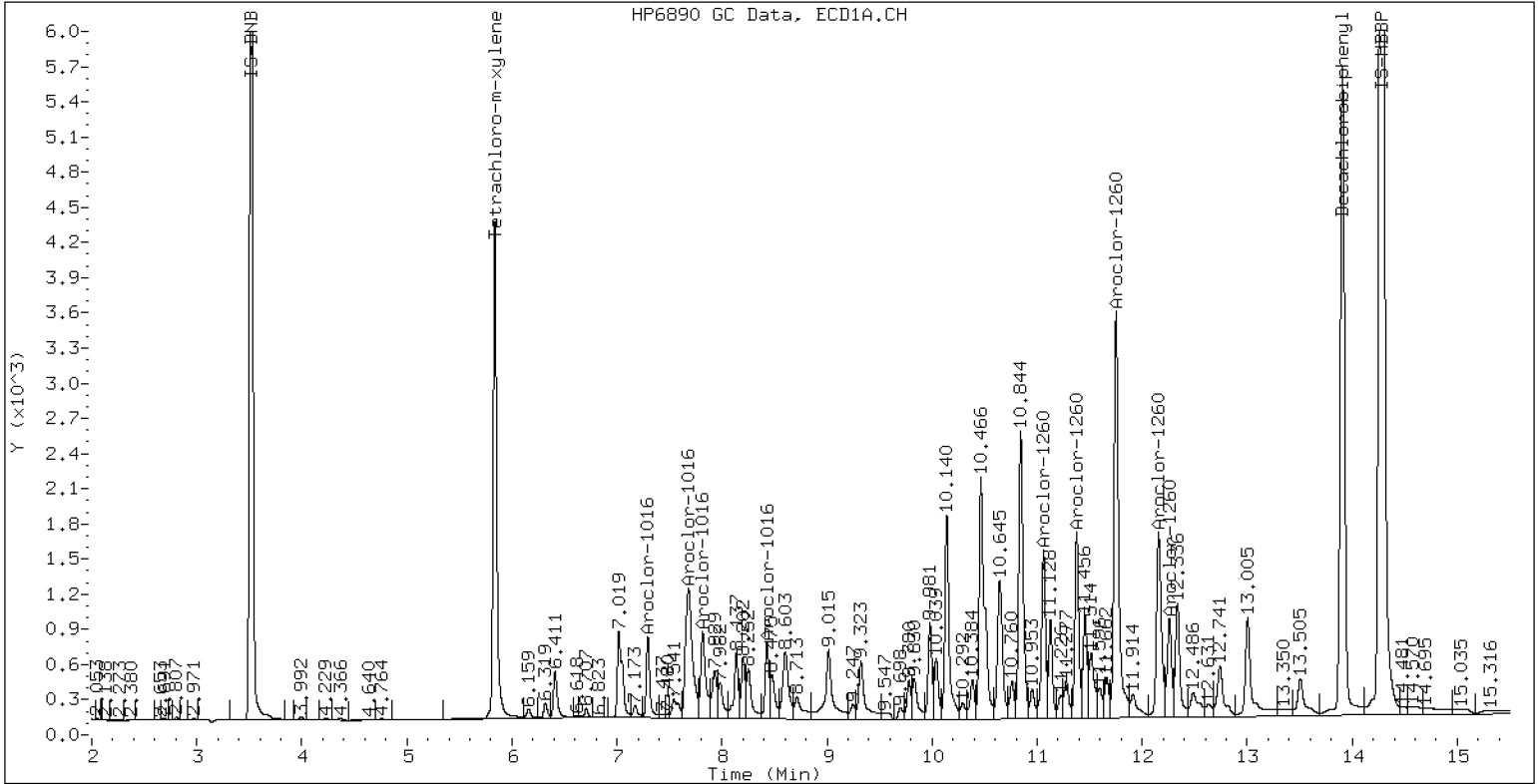
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2

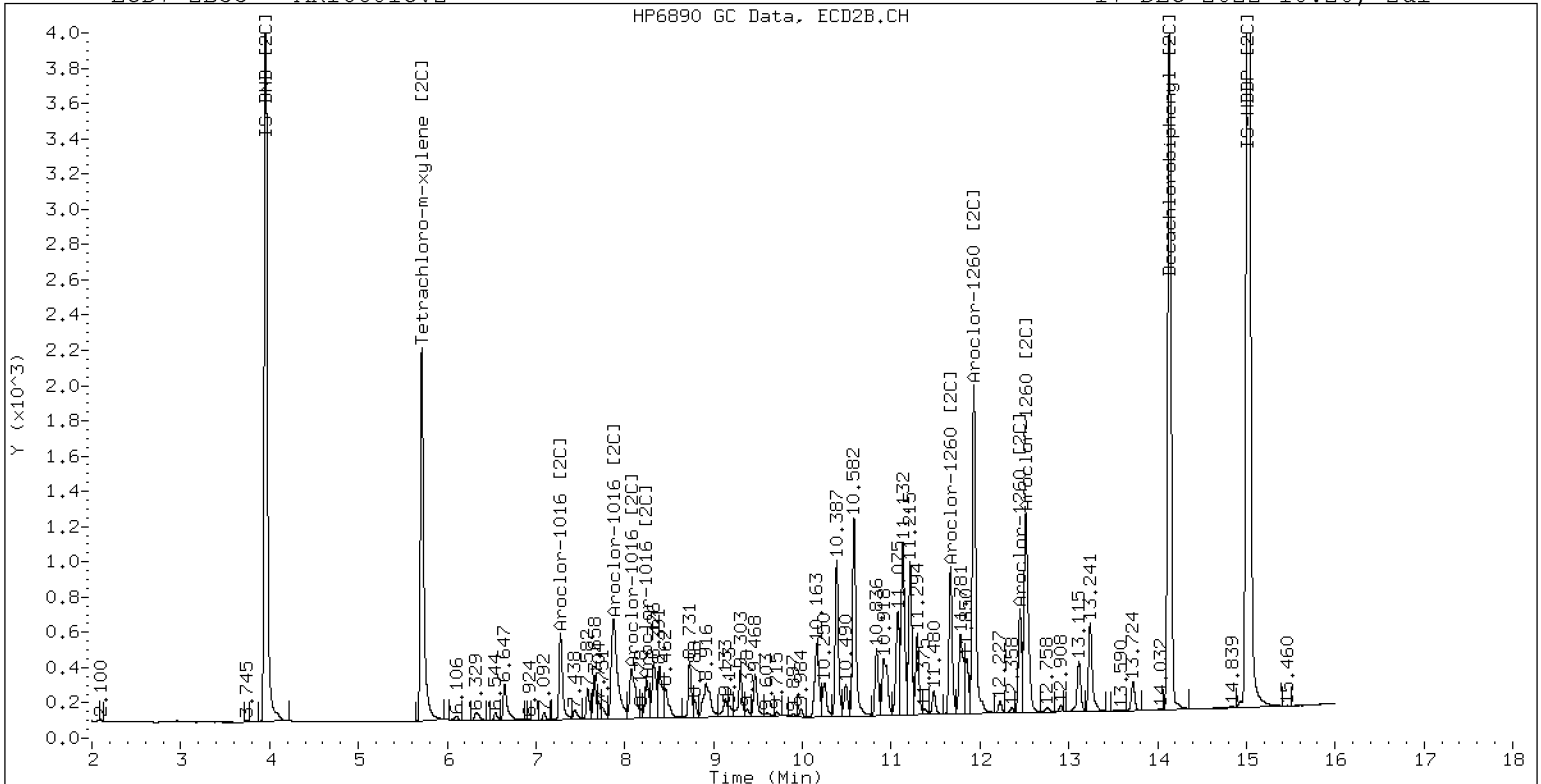
17-DEC-2022 10:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2

17-DEC-2022 10:20, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12032222ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0048</u>	Injection Date:	<u>12/03/22</u>
Lab Sample ID:	<u>SKL0048-SCV1</u>	Injection Time:	<u>22:13</u>
Sequence Name:	<u>AR1660SCV1</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	223	0.0441939	0.0392295		-10.7	+/-20
Aroclor 1016 [2C]	A	250.00	216	0.0467310	0.0403426		-13.5	+/-20
Aroclor 1260	A	250.00	285	0.0390342	0.0441447		14.1	+/-20
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0651122		5.1	+/-20
Decachlorobiphenyl	A	40.000	39.8	0.7333327	0.7297174		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0237520		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0840850		-4.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9886519		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total CollAve (4 peaks):				223.3		Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):				222.5		Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total CollAve (5 peaks):				285.1		Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):				280.8		Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

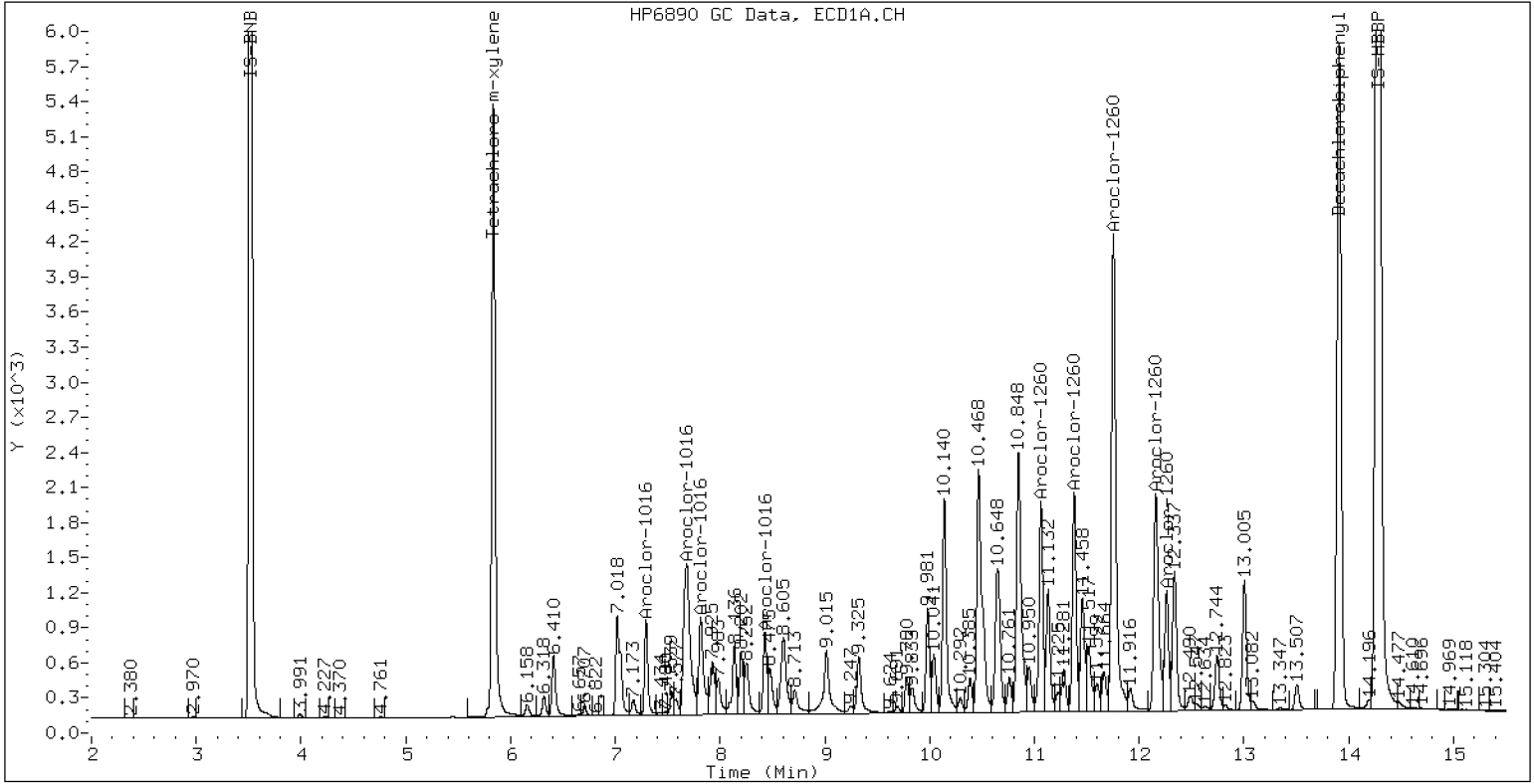
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1

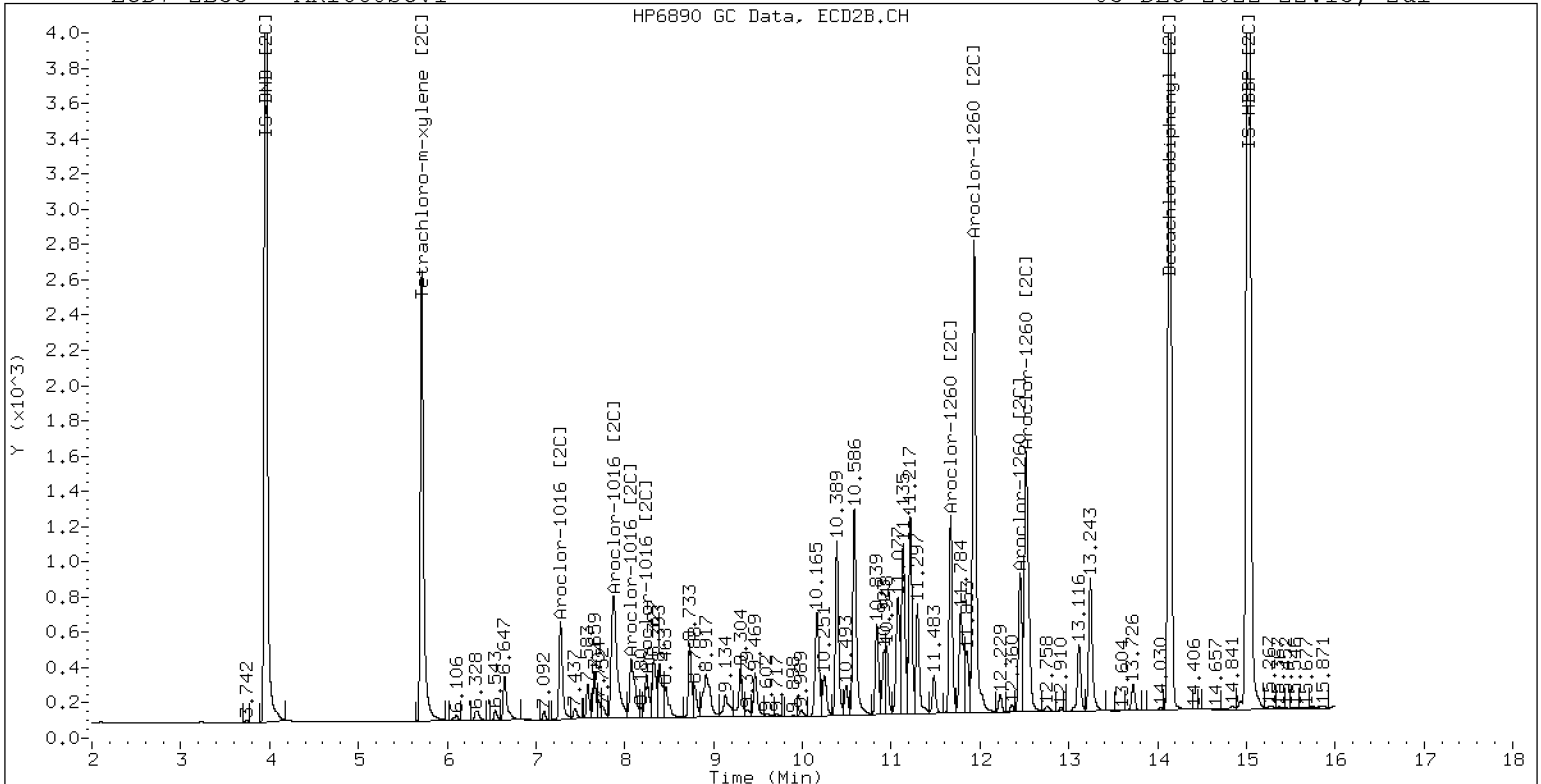
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ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1

03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12032223ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0048</u>	Injection Date:	<u>12/03/22</u>
Lab Sample ID:	<u>SKL0048-SCV2</u>	Injection Time:	<u>22:34</u>
Sequence Name:	<u>AR1242SCV2</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	207	0.0396000	0.0328545		-17.3	+/-20
Aroclor 1242 [2C]	A	250.00	225	0.0391981	0.0342776		-10.0	+/-20
Decachlorobiphenyl	A	40.000	39.1	0.7333327	0.7176455		-2.1	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0081550		-11.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0793200		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.0966080	0.9816931		-10.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3

Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total CollAve (4 peaks):				206.7		Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):				203.9		Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Coll (5.936 - 13.808) = 731052 Coll Total PCB = 0.1 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

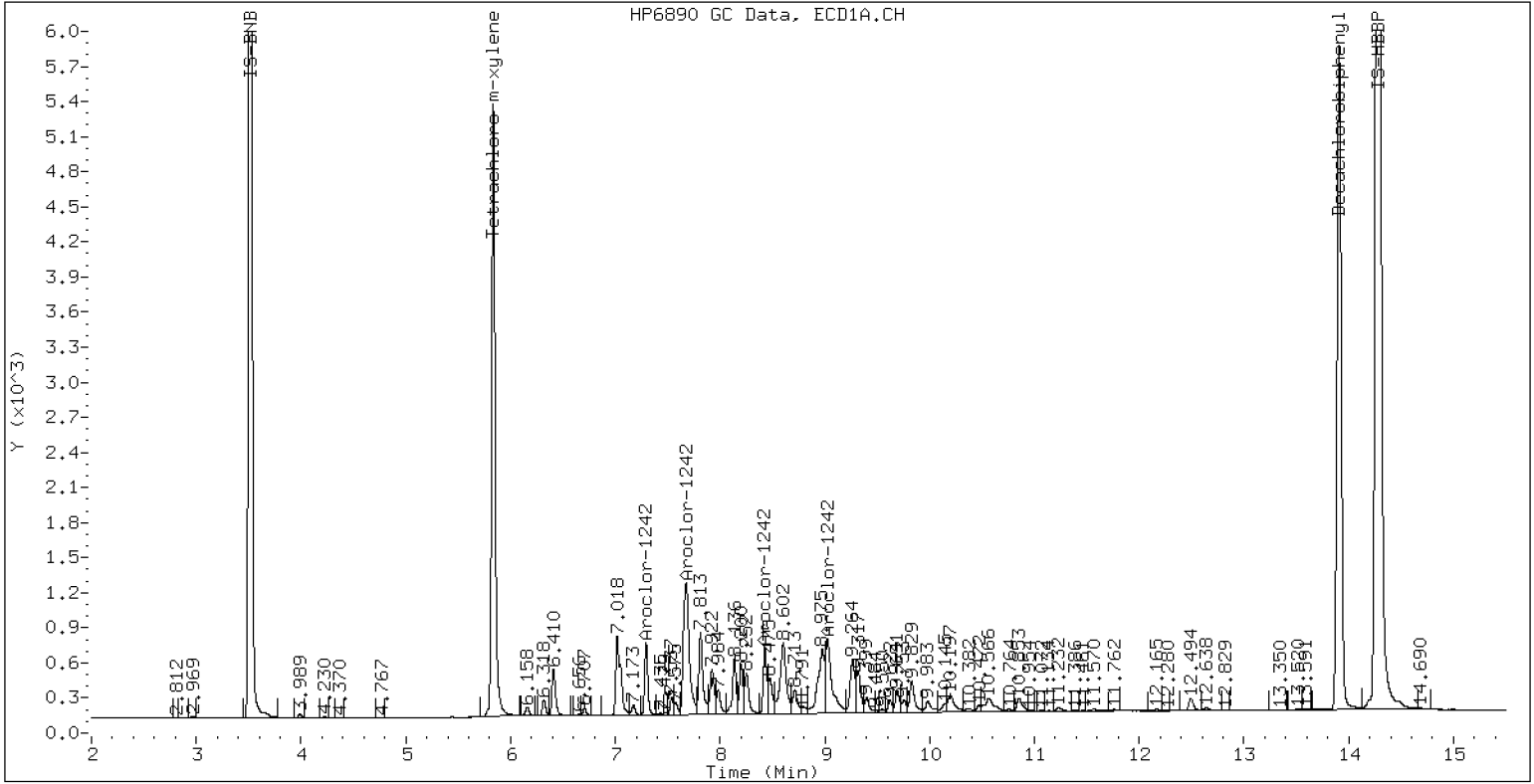
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2

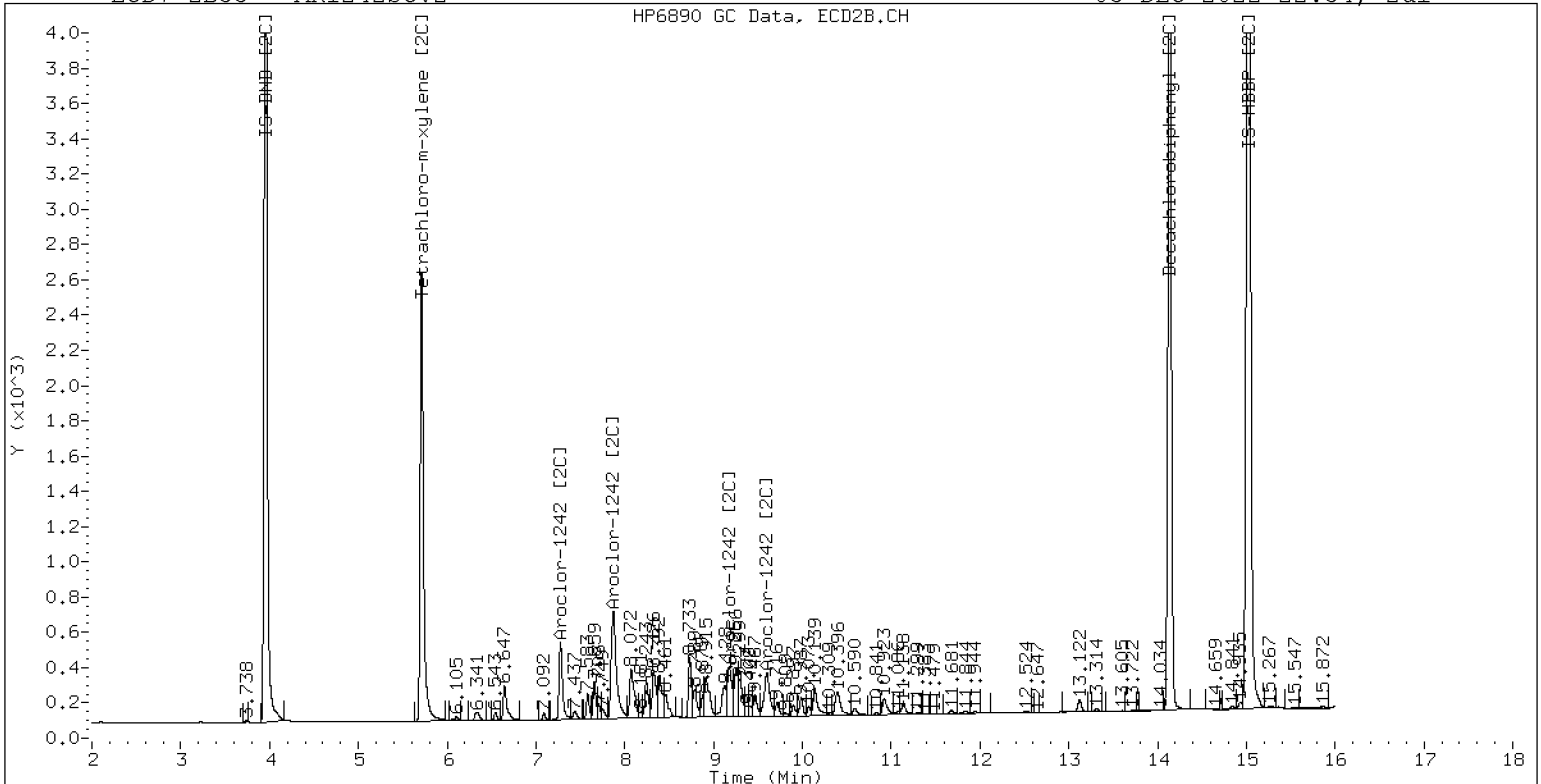
03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2

03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12032224ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0048</u>	Injection Date:	<u>12/03/22</u>
Lab Sample ID:	<u>SKL0048-SCV3</u>	Injection Time:	<u>22:55</u>
Sequence Name:	<u>AR1248SCV3</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	246	0.0490062	0.0480752		-1.8	+/-20
Aroclor 1248 [2C]	A	250.00	230	0.0394876	0.0363529		-7.9	+/-20
Decachlorobiphenyl	A	40.000	39.3	0.7333327	0.7205014		-1.7	+/-20
Tetrachlorometaxylene	A	40.000	34.7	1.1336710	0.9836260		-13.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0816130		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.1	1.0966080	0.9613644		-12.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8	
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5	
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9	
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7	
Total Col1Ave (4 peaks):				245.5	Total Col2Ave (4 peaks):				230.2	RPD = 6	
Corrected Ave (3 peaks):				238.8	Corrected Ave (3 peaks):				230.0	RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

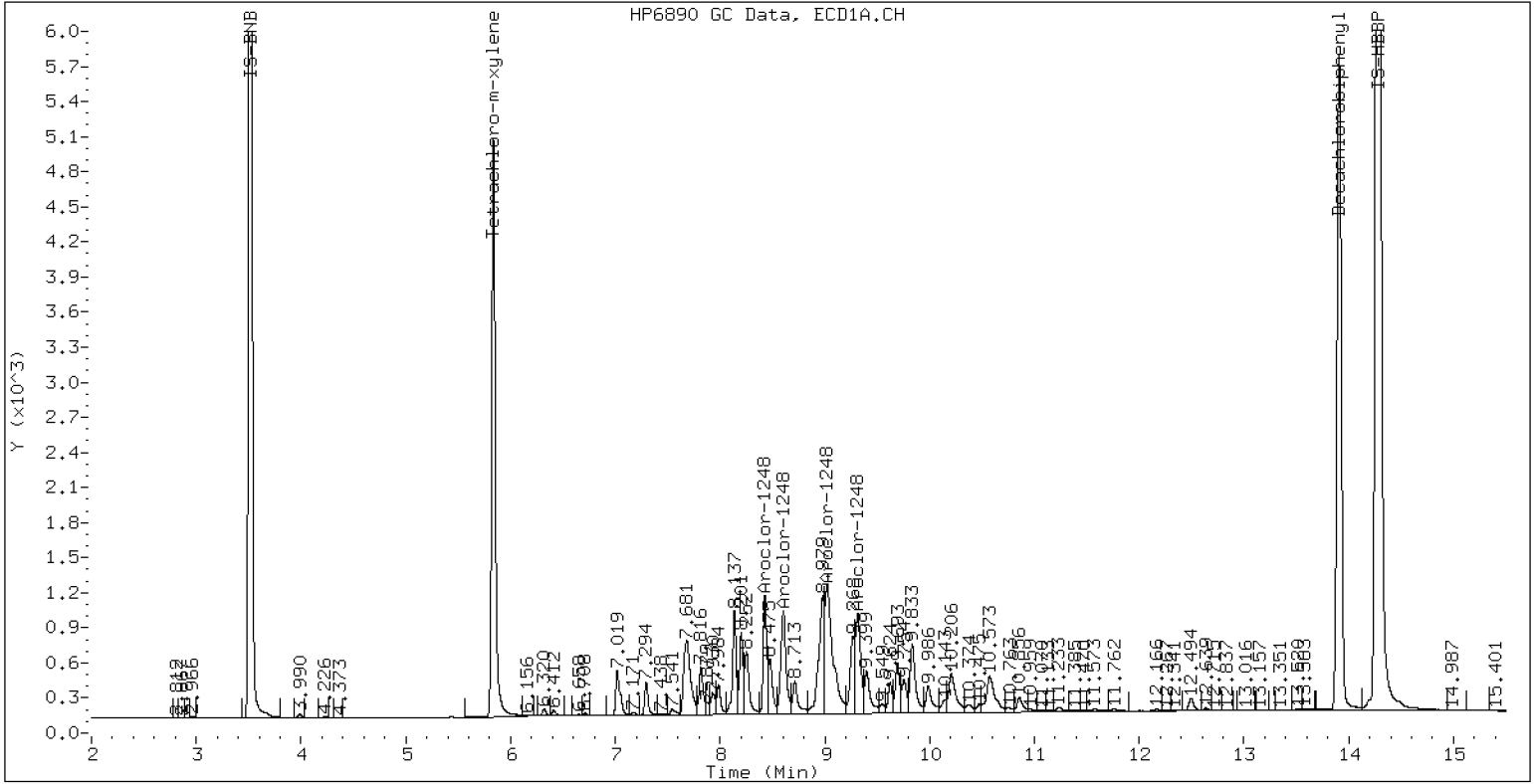
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3

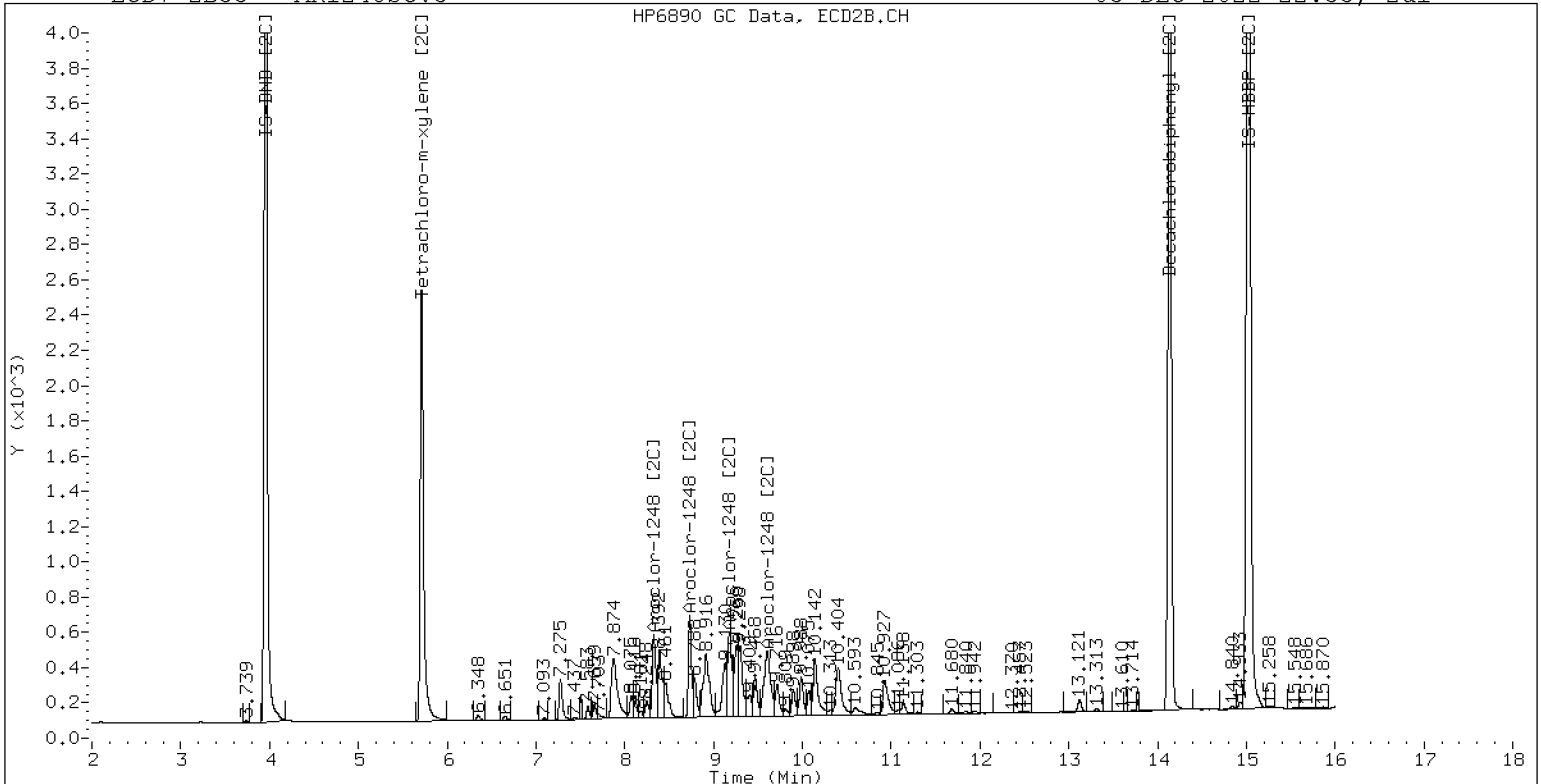
03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3

03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12032225ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0048</u>	Injection Date:	<u>12/03/22</u>
Lab Sample ID:	<u>SKL0048-SCV4</u>	Injection Time:	<u>23:17</u>
Sequence Name:	<u>AR1254SCV4</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	228	0.0576965	0.0519120		-8.8	+/-20
Aroclor 1254 [2C]	A	250.00	231	0.0638047	0.0582302		-7.7	+/-20
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7250146		-1.1	+/-20
Tetrachlorometaxylene	A	40.000	35.5	1.1336710	1.0063630		-11.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0811430		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.0	1.0966080	0.9868455		-10.0	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7	
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8	
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6	
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3	
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2	
Total CollAve (5 peaks):				227.9	Total Col2Ave (5 peaks):				230.7	RPD = 1	
Corrected Ave (4 peaks):				222.9	Corrected Ave (4 peaks):				223.4	RPD = 0	

Total PCB Area Coll (5.936 - 13.808) = 1261470 Coll Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

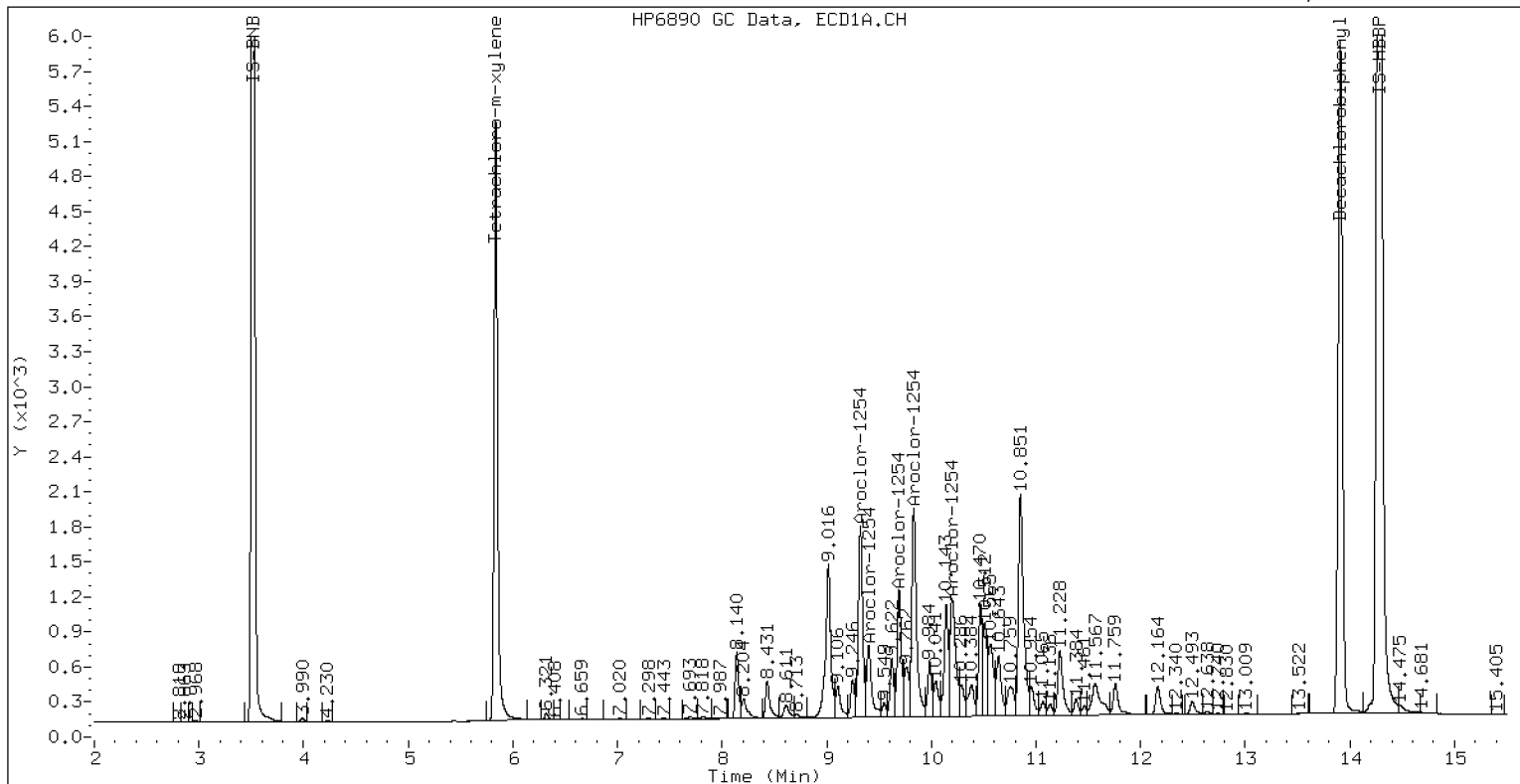
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4

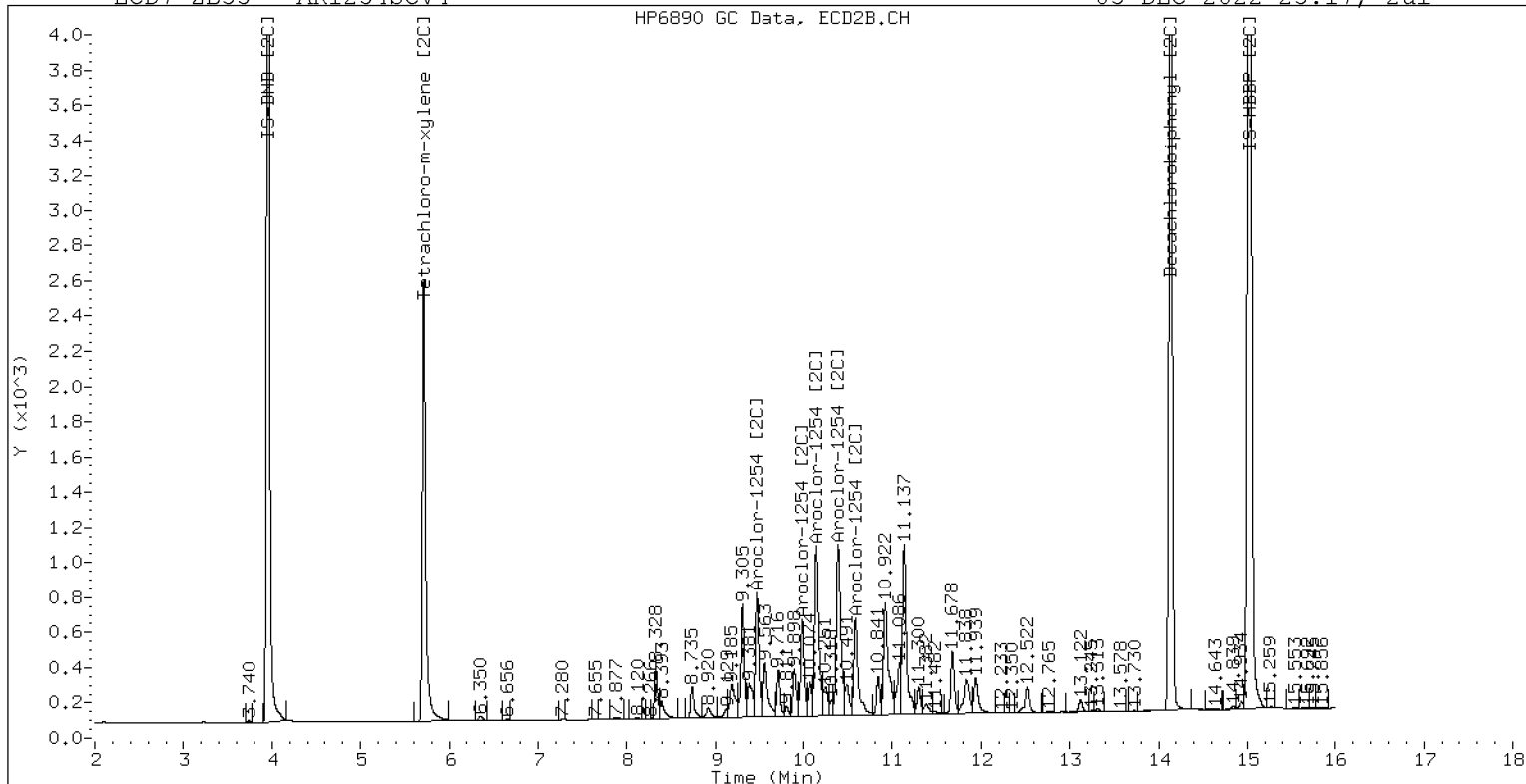
03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4

03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12032226ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0048</u>	Injection Date:	<u>12/03/22</u>
Lab Sample ID:	<u>SKL0048-SCV5</u>	Injection Time:	<u>23:38</u>
Sequence Name:	<u>AR2162SCV5</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	237	0.0150468	0.0142259		-5.3	+/-20
Aroclor 1221 [2C]	A	250.00	236	0.0137578	0.0128521		-5.7	+/-20
Aroclor 1262	A	500.00	469	0.0371038	0.0347825		-6.2	+/-20
Aroclor 1262 [2C]	A	500.00	464	0.0656640	0.0610321		-7.1	+/-20
Decachlorobiphenyl	A	40.000	40.0	0.7333327	0.7330667		-0.04	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0221760		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	1.1358180	1.0912900		-3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.0966080	0.9776713		-10.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7	
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3	
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1	
Total CollAve (3 peaks):				236.8	Total Col2Ave (3 peaks):				235.7	RPD = 0	
Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks						

Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3	
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9	
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8	
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1	
Total CollAve (4 peaks):				469.1	Total Col2Ave (4 peaks):				464.3	RPD = 1	
Corrected Ave (3 peaks):				466.9	Corrected Ave (3 peaks):				462.4	RPD = 1	

Total PCB Area Coll (5.936 - 13.808) = 3654831 Coll Total PCB = 0.7 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

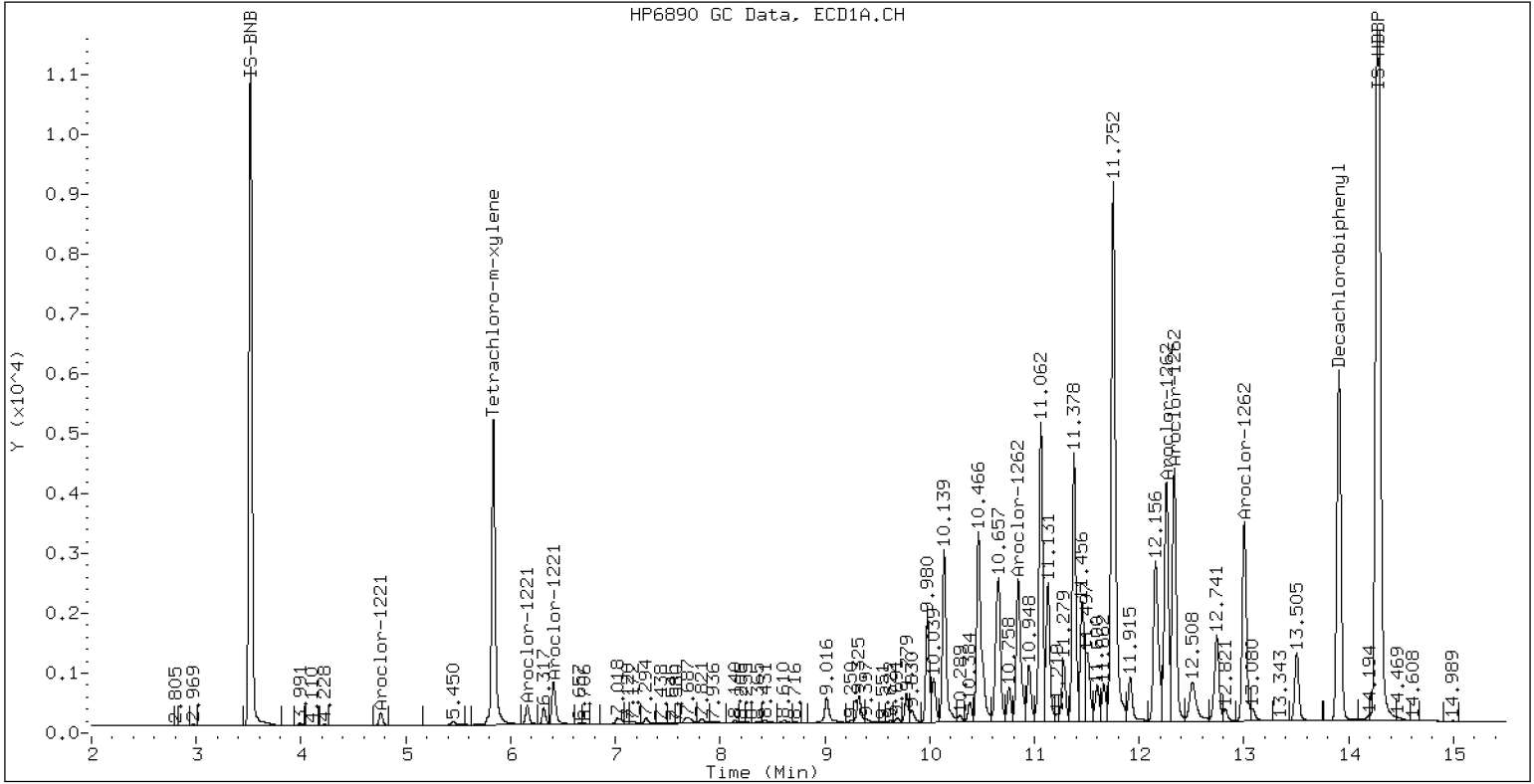
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5

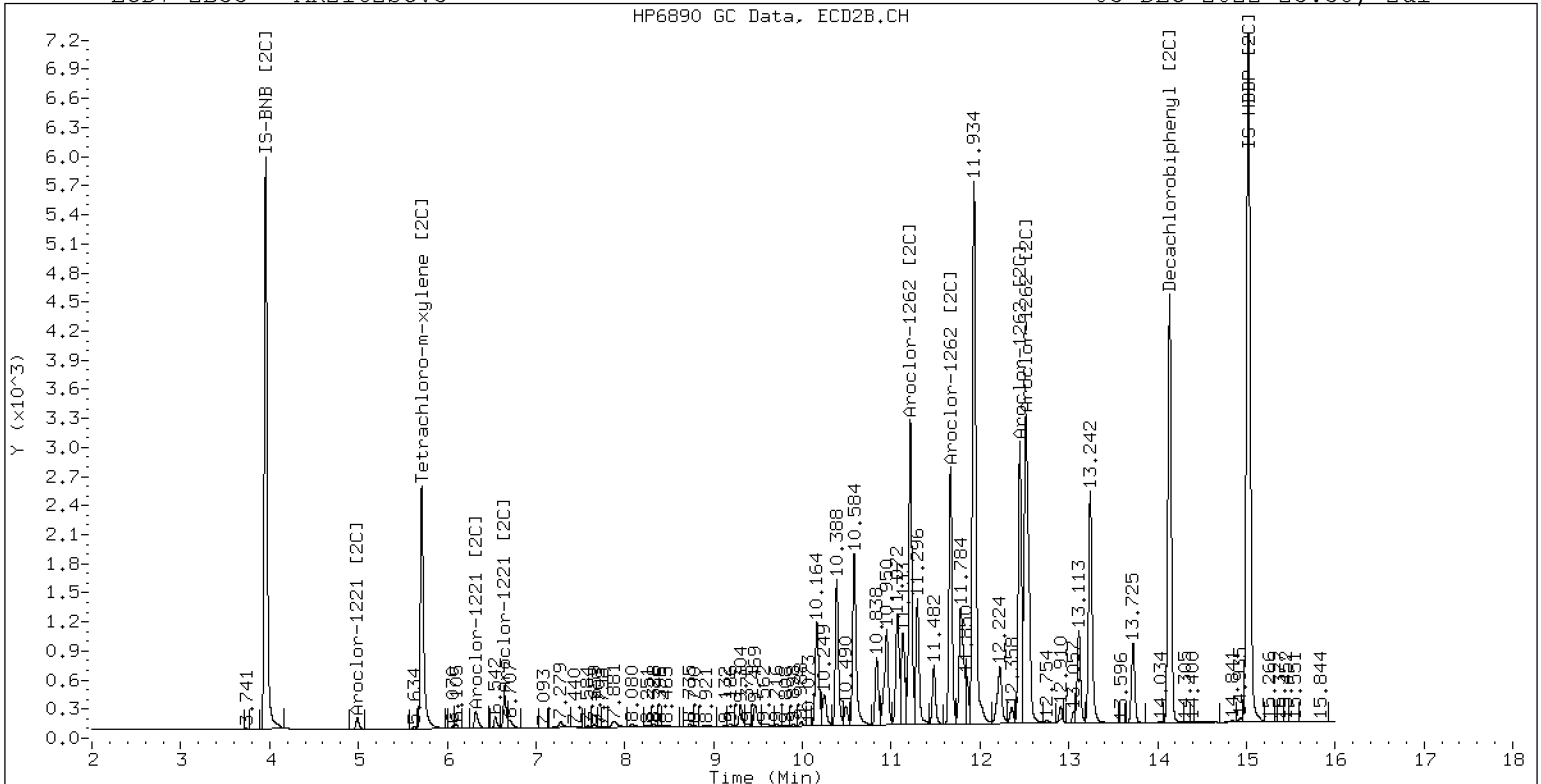
03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5

03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO



**SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12032227ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0048

Injection Date: 12/03/22

Lab Sample ID: SKL0048-SCV6

Injection Time: 23:59

Sequence Name: AR3268SCV6

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	217	0.0165403	0.0146227		-13.4	+/-20
Aroclor 1232 [2C]	A	250.00	230	0.0182815	0.0167216		-7.9	+/-20
Aroclor 1268	A	250.00	231	0.1462909	0.1351224		-7.5	+/-20
Aroclor 1268 [2C]	A	250.00	228	0.1941199	0.1796657		-8.9	+/-20
Decachlorobiphenyl	A	40.000	56.2	0.7333327	1.0299650		40.4	+/-20
Tetrachlorometaxylene	A	40.000	34.5	1.1336710	0.9771642		-13.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	54.9	1.1358180	1.5591590		37.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.2	1.0966080	0.9385176		-14.4	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total CollAve (4 peaks):				216.5		Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):				213.6		Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total CollAve (4 peaks):				231.2		Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):				230.4		Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

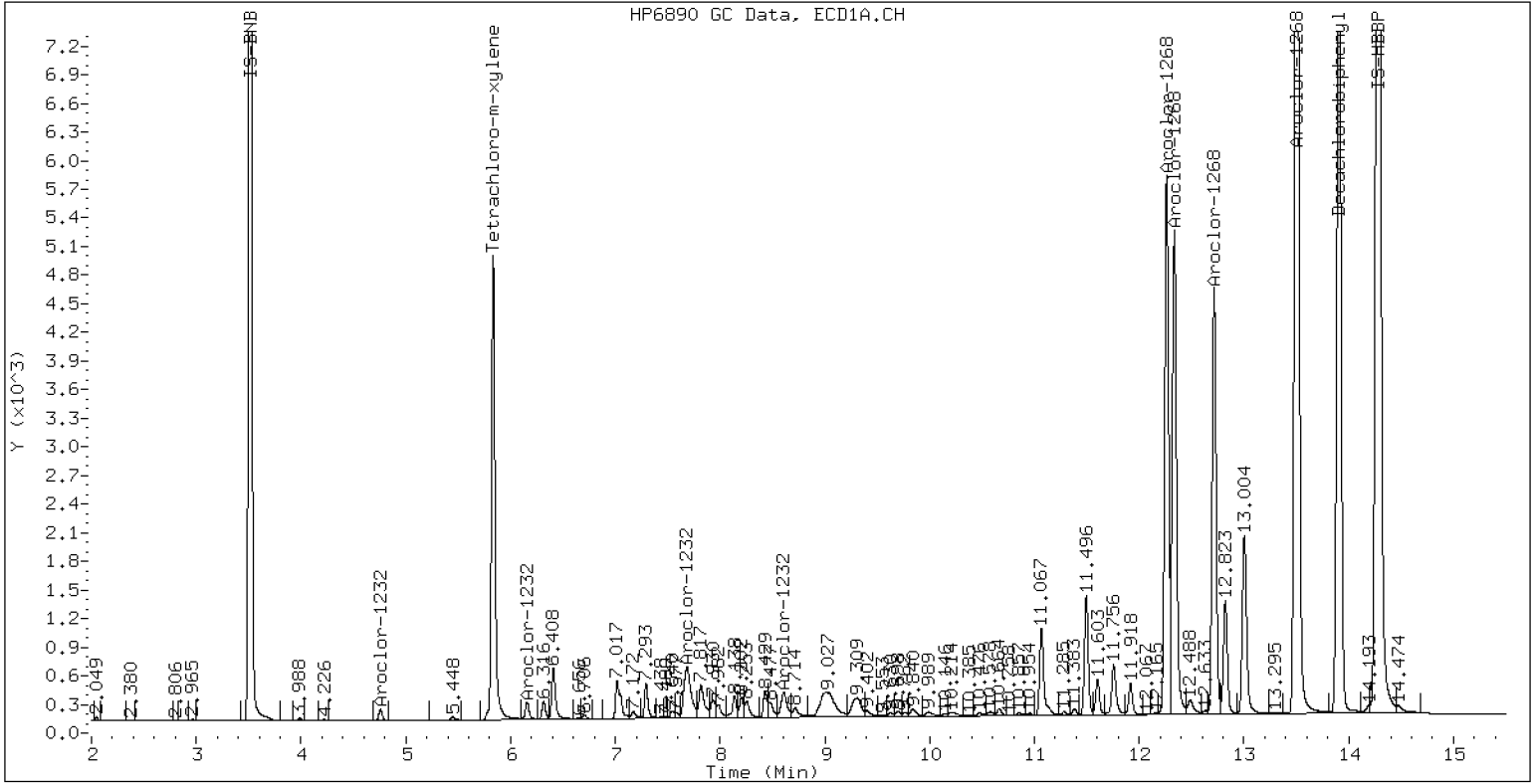
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6

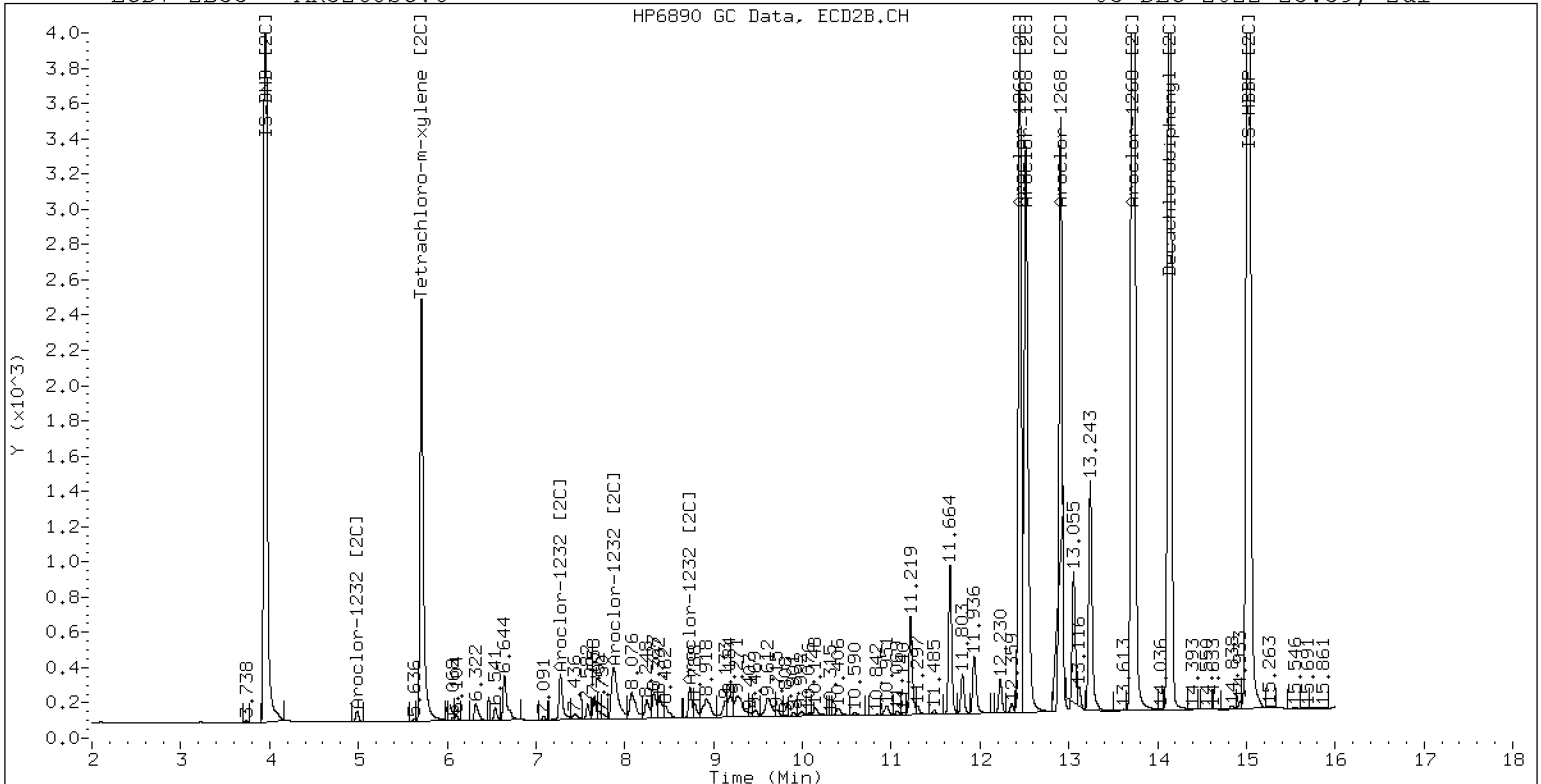
03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6

03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12172215ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0280</u>	Injection Date:	<u>12/17/22</u>
Lab Sample ID:	<u>SKL0280-CCV1</u>	Injection Time:	<u>14:14</u>
Sequence Name:	<u>AR1248CCV1</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	257	0.0490062	0.0520958		2.8	+/-20
Aroclor-1248 (1)	A	250.00	266		0.0365674			
Aroclor-1248 (2)	A	250.00	289		0.0508317			
Aroclor-1248 (3)	A	250.00	296		0.0935629			
Aroclor-1248 (4)	A	250.00	177		0.0274210			
Aroclor 1248 [2C]	A	250.00	244	0.0394876	0.0386833		-2.5	+/-20
Aroclor-1248 (1) [2C]	A	250.00	252		0.0330109			
Aroclor-1248 (2) [2C]	A	250.00	214		0.0294777			
Aroclor-1248 (3) [2C]	A	250.00	267		0.0446832			
Aroclor-1248 (4) [2C]	A	250.00	242		0.0475613			
Decachlorobiphenyl	A	40.000	42.6	0.7333327	0.7813275		6.5	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0557270		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.1358180	1.0753700		-5.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.6	1.0966080	1.0027760		-8.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172215ECD7.D
Data file 2: /221217.b/221217.b/12172215ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 17-DEC-2022 14:14
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	235784	5.712	0.002	131506	37.2	36.6	1.8	Tetrachloro-m-xylene
13.907	-0.001	328649	14.134	0.001	227493	42.6	37.9	11.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446676	-0.2
Hexabromobiphenyl	798898	841258	5.3
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	262284	5.3
Hexabromobiphenyl	362541	423097	16.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1248	1	8.428	0.001	51043	265.8	1	8.326	0.001	27057	252.5	
Aroclor-1248	2	8.605	0.001	70954	289.4	2	8.732	0.002	24161	214.4	
Aroclor-1248	3	9.022	0.000	130601	296.1	3	9.178	0.003	36624	267.2	
Aroclor-1248	4	9.313	0.002	38276	177.1	4	9.602	0.004	38983	242.3	
Total CollAve (4 peaks):				257.1	Total Col2Ave (4 peaks):				244.1	RPD = 5	
Corrected Ave (3 peaks):				244.1	Corrected Ave (3 peaks):				236.4	RPD = 3	
CalAmt %D:				2.8	CalAmt %D:				-2.4		

Total PCB Area Col1 (5.936 - 13.808) = 1147716 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 510632 Col2 Total PCB = 0.3 ppm*

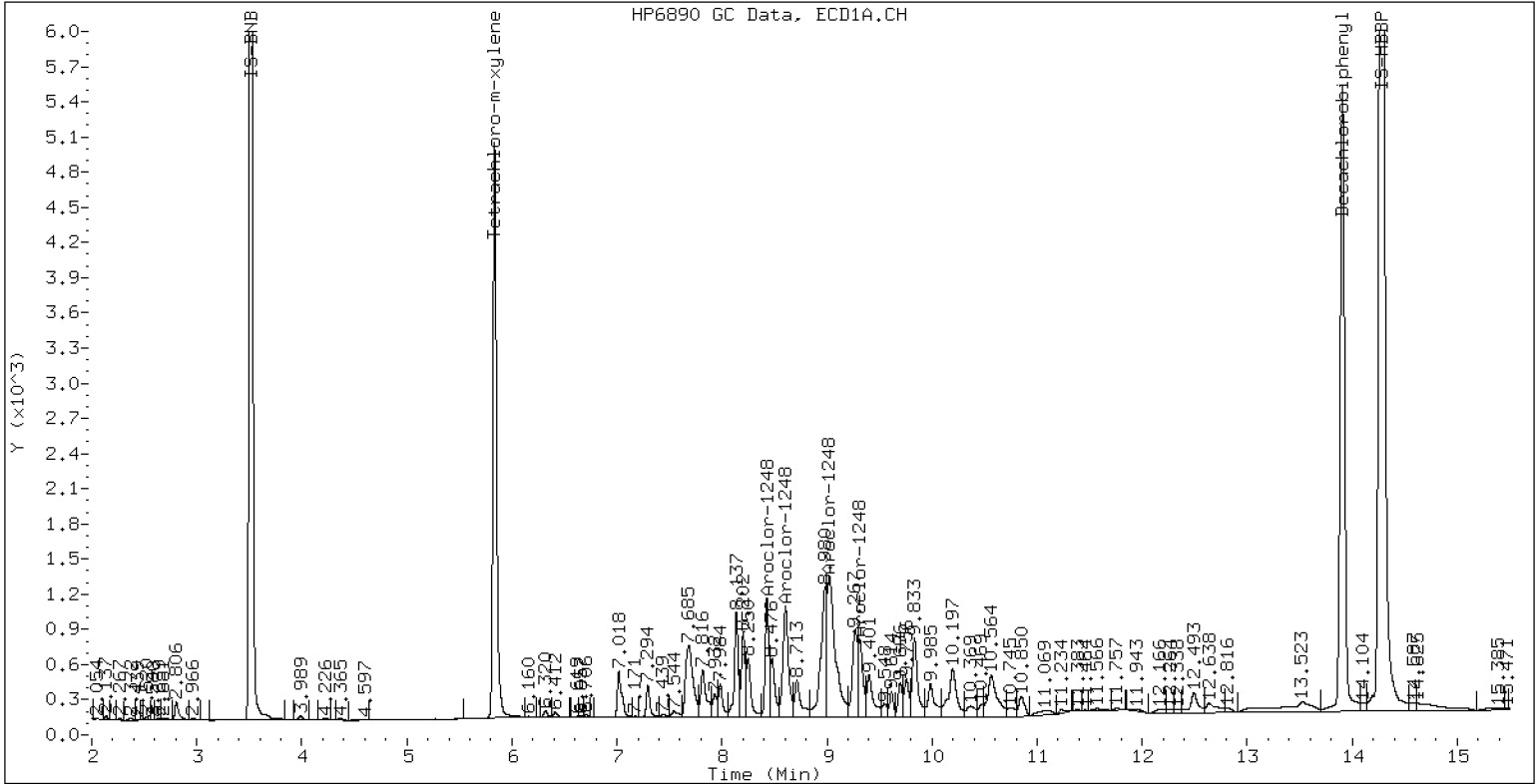
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1

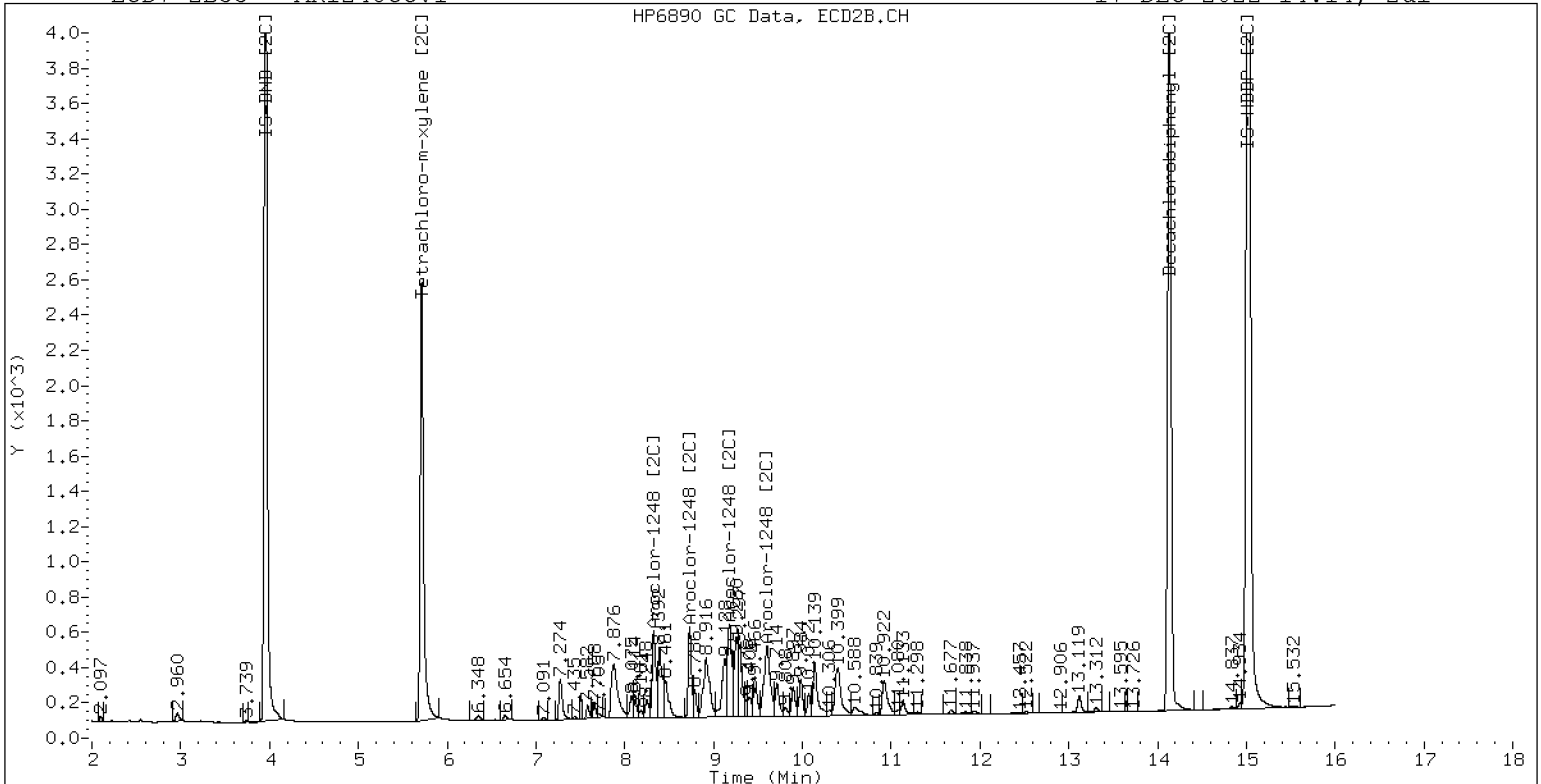
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ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1

17-DEC-2022 14:14, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172216ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/17/22

Lab Sample ID: SKL0280-CCV2

Injection Time: 14:35

Sequence Name: AR1660CCV2

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	293	0.0441939	0.0507098		17.1	+/-20
Aroclor-1016 (1)	A	250.00	297	0.0266860	0.0316907		18.8	
Aroclor-1016 (2)	A	250.00	274	0.0861572	0.0943956		9.6	
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0469096		20.0	
Aroclor-1016 (4)	A	250.00	300	0.0248899	0.0298432		20.0	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0446358		-3.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	245	0.0409030	0.0401138		-2.0	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0828552		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356846		-6.0	
Aroclor-1016 (4) [2C]	A	250.00	250	0.0199212	0.0198895		0.0	
Aroclor 1260	A	250.00	264	0.0390342	0.0410662		5.4	+/-20
Aroclor-1260 (1)	A	250.00	263	0.0291201	0.0306415		5.2	
Aroclor-1260 (2)	A	250.00	270	0.0301181	0.0325711		8.0	
Aroclor-1260 (3)	A	250.00	268	0.0791351	0.0849073		7.2	
Aroclor-1260 (4)	A	250.00	242	0.0403003	0.0390577		-3.2	
Aroclor-1260 (5)	A	250.00	275	0.0164974	0.0181533		10.0	
Aroclor 1260 [2C]	A	250.00	212	0.0617619	0.0523790		-15.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	204	0.0422283	0.0345566		-18.4	
Aroclor-1260 (2) [2C]	A	250.00	209	0.1059643	0.0886550		-16.4	
Aroclor-1260 (3) [2C]	A	250.00	217	0.0282173	0.0245355		-13.2	
Aroclor-1260 (4) [2C]	A	250.00	219	0.0706376	0.0617688		-12.4	
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7946229		8.3	+/-20
Tetrachlorometaxylene	A	40.000	41.7	1.1336710	1.1820460		4.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0784860		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.3	1.0966080	1.0769520		-1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172216ECD7.D
Data file 2: /221217.b/221217.b/12172216ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 17-DEC-2022 14:35
Report Date: 12/20/2022 15:07
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	218867	5.711	0.001	118889	41.7	39.3	6.0	Tetrachloro-m-xylene
13.906	-0.002	315215	14.133	-0.000	203774	43.3	38.0	13.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	370319	-17.3
Hexabromobiphenyl	798898	793370	-0.7

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220788	-11.4
Hexabromobiphenyl	362541	377889	4.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	-0.002	36674	296.9	1	7.275	0.001	27677	245.2
Aroclor-1016	2	7.682	-0.002	109239	273.9	2	7.876	0.004	57167	234.8
Aroclor-1016	3	7.816	-0.002	54286	300.4	3	8.074	0.002	24621	235.5
Aroclor-1016	4	8.427	-0.002	34536	299.8	4	8.246	0.003	13723	249.6
Total CollAve (4 peaks):				292.7		Total Col2Ave (4 peaks):				241.3 RPD = 19
Corrected Ave (3 peaks):				290.2		Corrected Ave (3 peaks):				238.5 RPD = 20

CalAmt %D: 17.1

CalAmt %D: -3.5

Aroclor-1260	1	11.061	-0.001	75969	263.1	1	11.668	0.001	40808	204.6
Aroclor-1260	2	11.377	-0.000	80753	270.4	2	11.931	0.001	104693	209.2
Aroclor-1260	3	11.751	-0.001	210509	268.2	3	12.450	0.001	28974	217.4
Aroclor-1260	4	12.157	-0.001	96835	242.3	4	12.515	0.002	72943	218.6
Aroclor-1260	5	12.260	-0.001	45007	275.1	NS	---			----
Total CollAve (5 peaks):				263.8		Total Col2Ave (4 peaks):				212.4 RPD = 22
Corrected Ave (4 peaks):				261.0		Corrected Ave (3 peaks):				210.4 RPD = 21

CalAmt %D: 5.5

CalAmt %D: -15.0

Total PCB Area Coll (5.936 - 13.808) = 2300291 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1028628 Col2 Total PCB = 0.7 ppm*

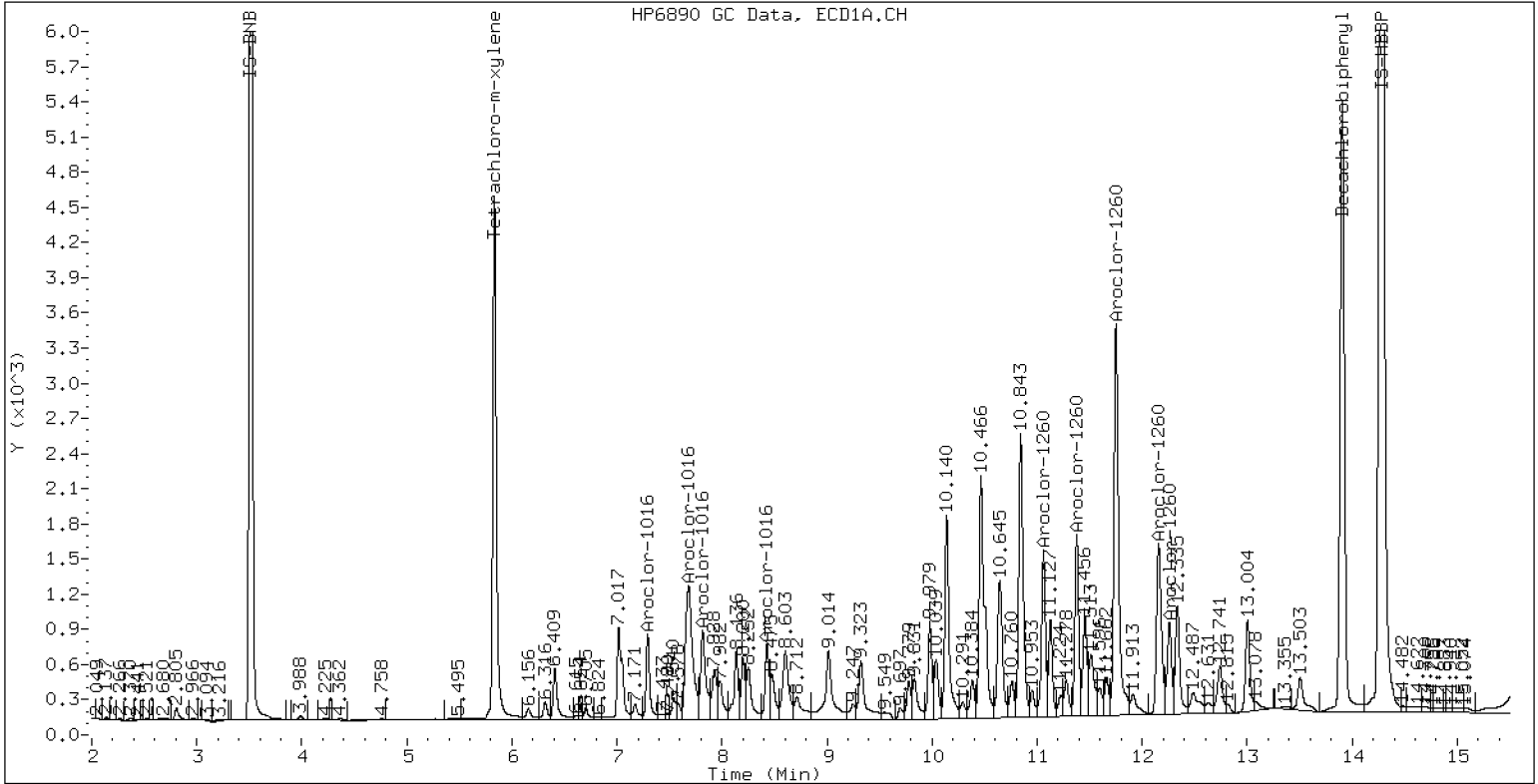
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2

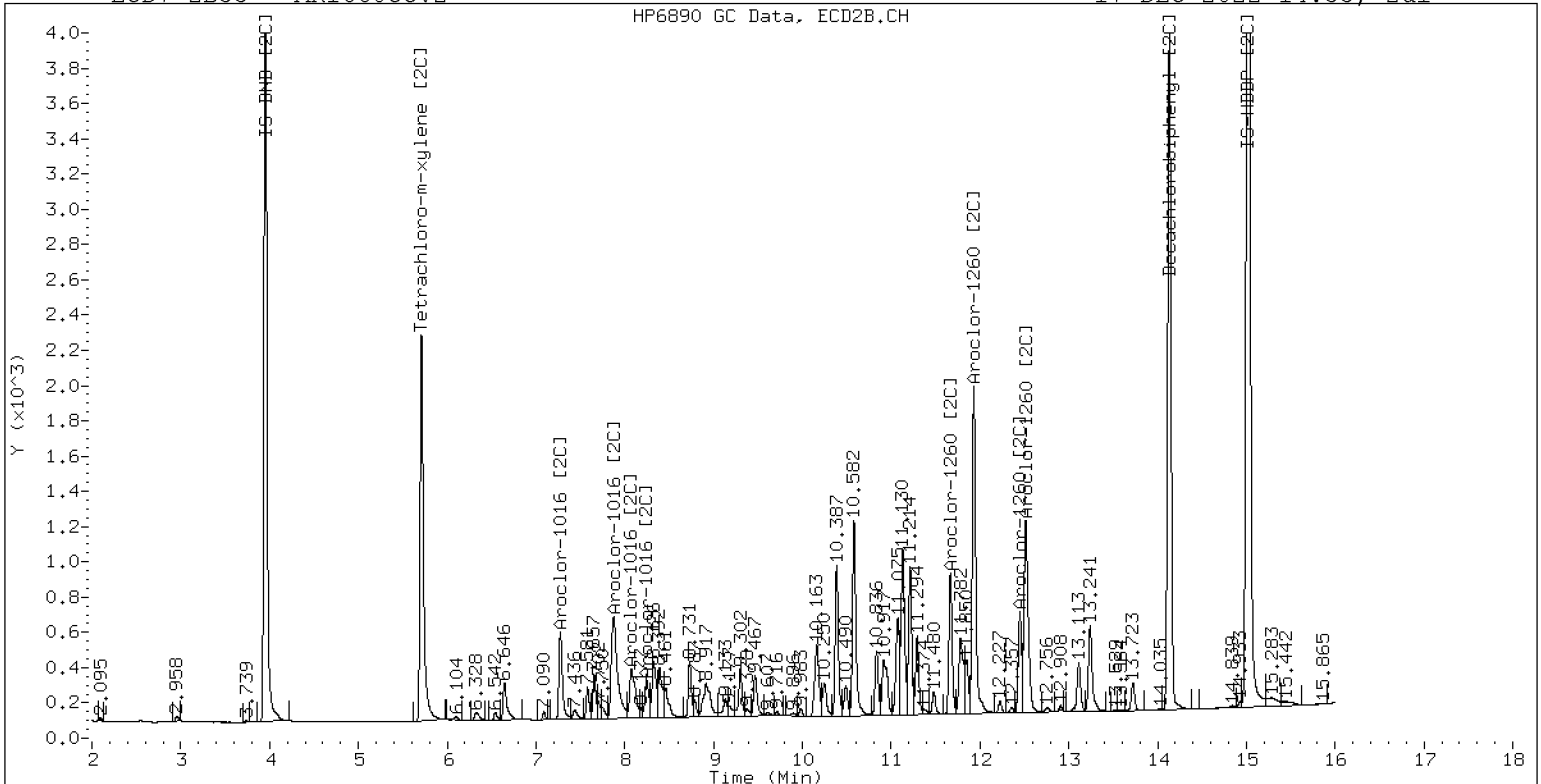
17-DEC-2022 14:35, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2

17-DEC-2022 14:35, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12172227ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0280</u>	Injection Date:	<u>12/17/22</u>
Lab Sample ID:	<u>SKL0280-CCV3</u>	Injection Time:	<u>18:29</u>
Sequence Name:	<u>AR1242CCV3</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	276	0.0396000	0.0435459		10.4	+/-20
Aroclor-1242 (1)	A	250.00	260		0.0236265			
Aroclor-1242 (2)	A	250.00	266		0.0764970			
Aroclor-1242 (3)	A	250.00	285		0.0235837			
Aroclor-1242 (4)	A	250.00	293		0.0504765			
Aroclor 1242 [2C]	A	250.00	247	0.0391981	0.0375823		-1.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	247		0.0334222			
Aroclor-1242 (2) [2C]	A	250.00	223		0.0641787			
Aroclor-1242 (3) [2C]	A	250.00	270		0.0250664			
Aroclor-1242 (4) [2C]	A	250.00	248		0.0276618			
Decachlorobiphenyl	A	40.000	42.8	0.7333327	0.7854166		7.0	+/-20
Tetrachlorometaxylene	A	40.000	38.0	1.1336710	1.0771850		-5.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.4	1.1358180	1.0613770		-6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.0966080	1.0370560		-5.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172227ECD7.D
Data file 2: /221217.b/221217.b/12172227ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 17-DEC-2022 18:29
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	229581	5.712	0.002	129969	38.0	37.8	0.5	Tetrachloro-m-xylene
13.906	-0.002	285841	14.132	-0.001	200855	42.8	37.4	13.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	426261	-4.8
Hexabromobiphenyl	798898	727871	-8.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	250650	0.6
Hexabromobiphenyl	362541	378480	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.292	-0.002	31472	260.5	1	7.275	0.001	26179	246.8
Aroclor-1242	2	7.681	-0.004	101899	265.6	2	7.873	0.000	50270	223.2
Aroclor-1242	3	8.427	-0.003	31415	284.6	3	9.178	0.003	19634	270.2
Aroclor-1242	4	9.031	-0.001	67238	293.4	4	9.601	0.003	21667	248.1
Total CollAve (4 peaks):				276.0	Total Col2Ave (4 peaks):				247.1	RPD = 11
Corrected Ave (3 peaks):				270.2	Corrected Ave (3 peaks):				239.4	RPD = 12
CalAmt %D:				10.4	CalAmt %D:				-1.2	

Total PCB Area Col1 (5.936 - 13.808) = 981854 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 392251 Col2 Total PCB = 0.2 ppm*

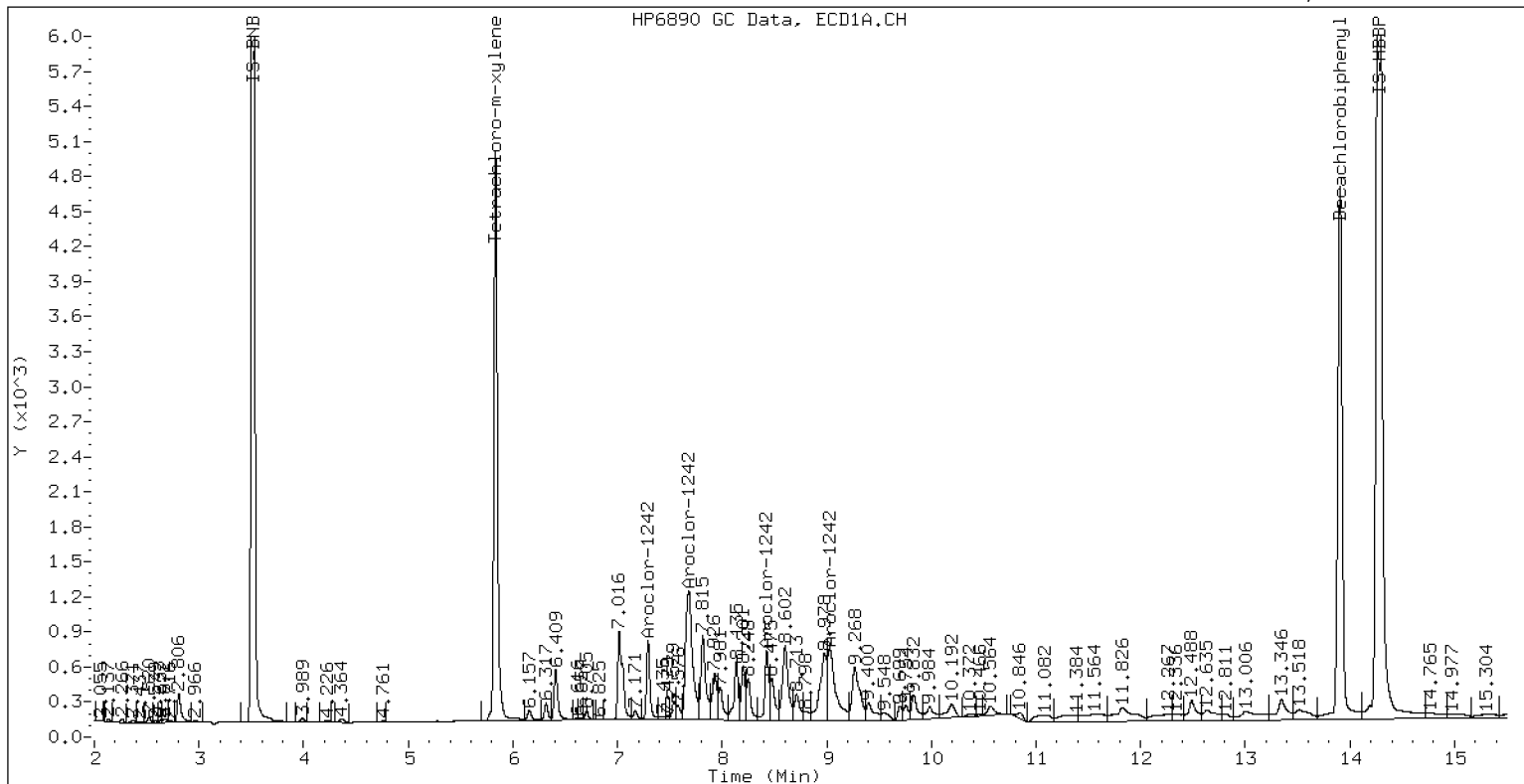
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3

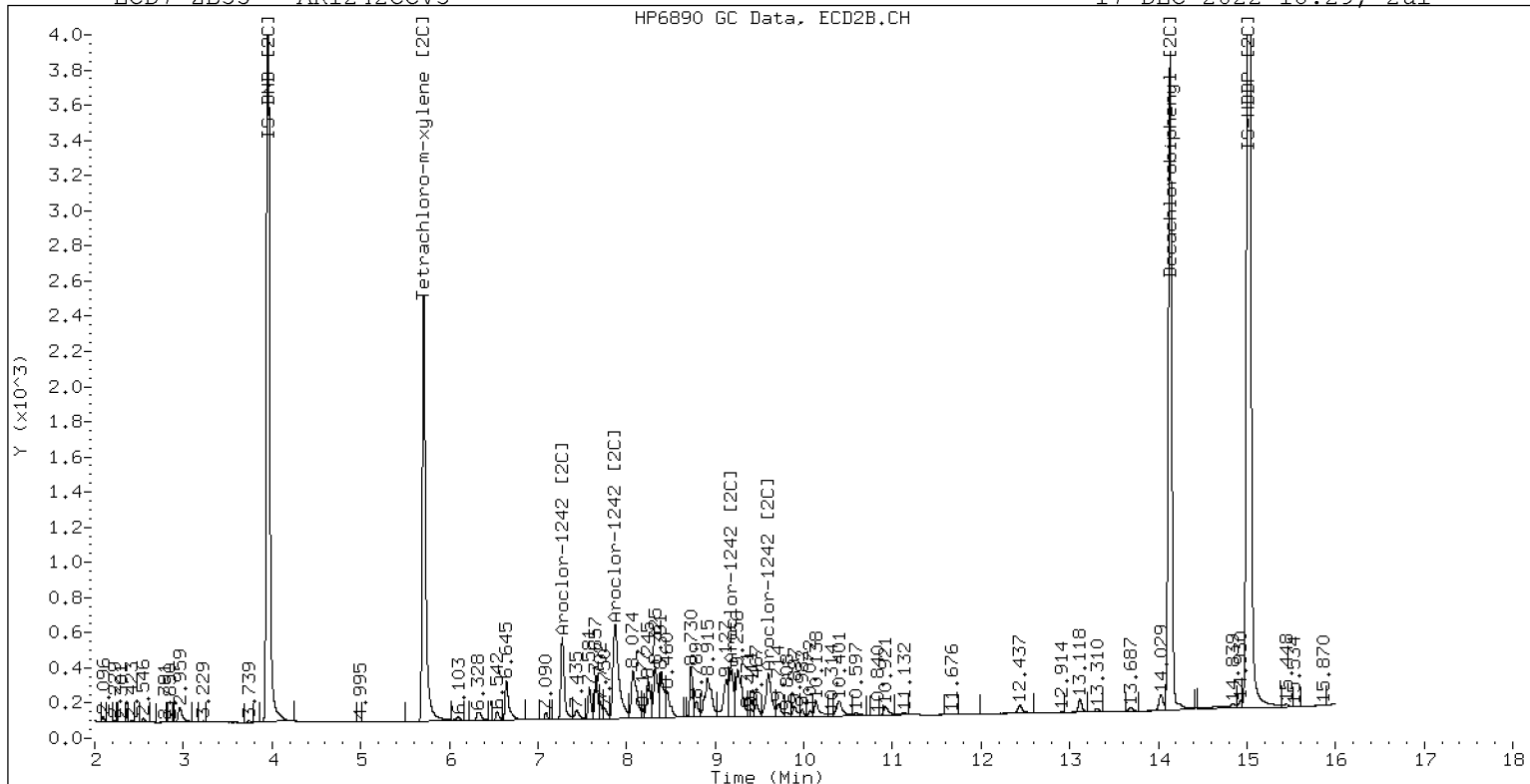
17-DEC-2022 18:29, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3

17-DEC-2022 18:29, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172228ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/17/22

Lab Sample ID: SKL0280-CCV4

Injection Time: 18:50

Sequence Name: AR1660CCV4

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	283	0.0441939	0.0491277		13.3	+/-20
Aroclor-1016 (1)	A	250.00	274	0.0266860	0.0292443		9.6	
Aroclor-1016 (2)	A	250.00	268	0.0861572	0.0922498		7.2	
Aroclor-1016 (3)	A	250.00	286	0.0390425	0.0446718		14.4	
Aroclor-1016 (4)	A	250.00	305	0.0248899	0.0303449		22.0	
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0443280		-3.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399732		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	232	0.0882154	0.0817522		-7.2	
Aroclor-1016 (3) [2C]	A	250.00	234	0.0378846	0.0355467		-6.4	
Aroclor-1016 (4) [2C]	A	250.00	251	0.0199212	0.0200398		0.4	
Aroclor 1260	A	250.00	299	0.0390342	0.0464859		19.5	+/-20
Aroclor-1260 (1)	A	250.00	301	0.0291201	0.0350211		20.4	
Aroclor-1260 (2)	A	250.00	304	0.0301181	0.0366365		21.6	
Aroclor-1260 (3)	A	250.00	302	0.0791351	0.0955913		20.8	
Aroclor-1260 (4)	A	250.00	277	0.0403003	0.0447259		10.8	
Aroclor-1260 (5)	A	250.00	310	0.0164974	0.0204547		24.0	
Aroclor 1260 [2C]	A	250.00	217	0.0617619	0.0530776		-13.2	+/-20
Aroclor-1260 (1) [2C]	A	250.00	212	0.0422283	0.0359094		-15.2	
Aroclor-1260 (2) [2C]	A	250.00	210	0.1059643	0.0888759		-16.0	
Aroclor-1260 (3) [2C]	A	250.00	226	0.0282173	0.0254742		-9.6	
Aroclor-1260 (4) [2C]	A	250.00	220	0.0706376	0.0620508		-12.0	
Decachlorobiphenyl	A	40.000	44.7	0.7333327	0.8203660		11.8	+/-20
Tetrachlorometaxylene	A	40.000	40.9	1.1336710	1.1602140		2.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0842320		-4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.2	1.0966080	1.0756620		-2.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172228ECD7.D
Data file 2: /221217.b/221217.b/12172228ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 17-DEC-2022 18:50
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	ZB5 Col Response	RT	ZB35 Col Shift	ZB35 Col Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	212521	5.712	0.001	116370	40.9	39.2	4.2	Tetrachloro-m-xylene
13.905	-0.003	275451	14.133	-0.001	189282	44.7	38.2	15.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	366348	-18.2
Hexabromobiphenyl	798898	671532	-15.9

Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	216369	-13.1
Hexabromobiphenyl	362541	349154	-3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.292	-0.003	33480	274.0	1	7.275	0.001	27028	244.3	
Aroclor-1016	2	7.681	-0.004	105611	267.7	2	7.874	0.002	55277	231.7	
Aroclor-1016	3	7.814	-0.003	51142	286.0	3	8.073	0.001	24035	234.6	
Aroclor-1016	4	8.427	-0.003	34740	304.8	4	8.244	0.001	13550	251.5	
Total CollAve (4 peaks):				283.1		Total Col2Ave (4 peaks):				240.5	RPD = 16
Corrected Ave (3 peaks):				275.9		Corrected Ave (3 peaks):				236.9	RPD = 15
CalAmt %D:				13.2		CalAmt %D:				-3.8	
Aroclor-1260	1	11.060	-0.002	73493	300.7	1	11.667	0.000	39181	212.6	
Aroclor-1260	2	11.376	-0.001	76883	304.1	2	11.930	-0.000	96973	209.7	
Aroclor-1260	3	11.750	-0.002	200602	302.0	3	12.449	0.000	27795	225.7	
Aroclor-1260	4	12.154	-0.005	93859	277.5	4	12.514	0.001	67704	219.6	
Aroclor-1260	5	12.259	-0.002	42925	310.0	NS	---			----	
Total CollAve (5 peaks):				298.8		Total Col2Ave (4 peaks):				216.9	RPD = 32
Corrected Ave (4 peaks):				296.1		Corrected Ave (3 peaks):				214.0	RPD = 32
CalAmt %D:				19.5		CalAmt %D:				-13.2	

Total PCB Area Col1 (5.936 - 13.808) = 2188261 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 984749 Col2 Total PCB = 0.6 ppm*

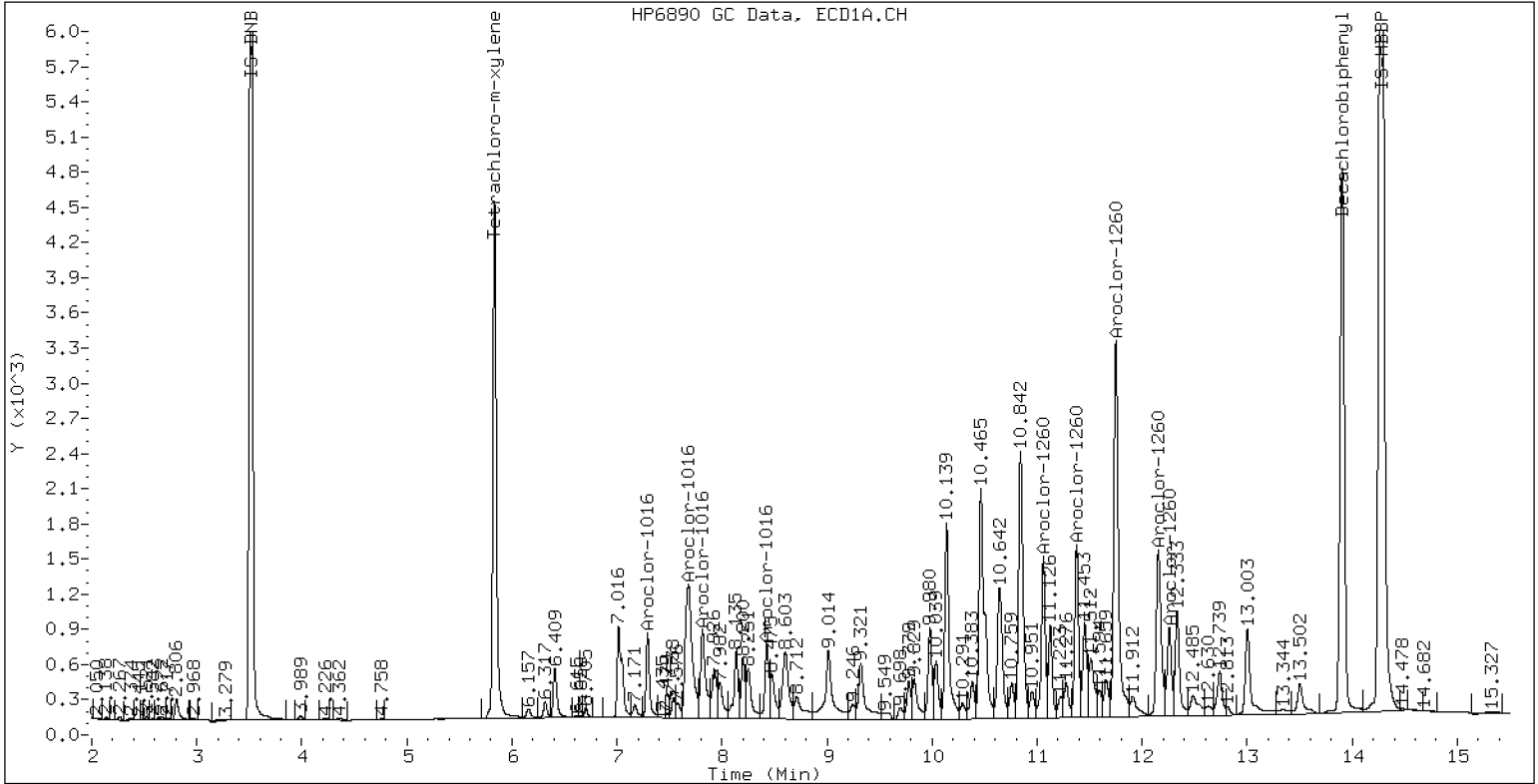
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4

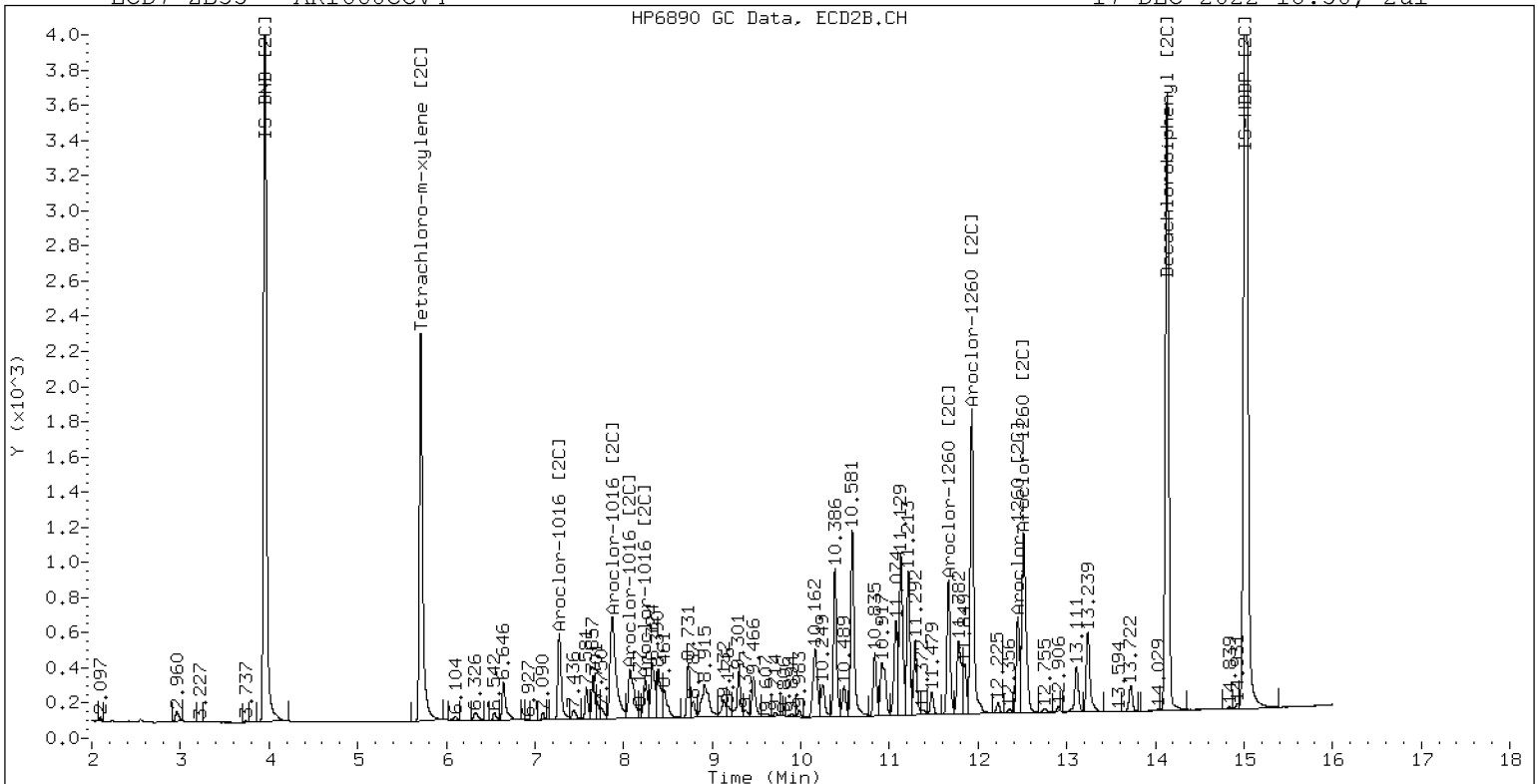
17-DEC-2022 18:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4

17-DEC-2022 18:50, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172237ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/17/22

Lab Sample ID: SKL0280-CCV5

Injection Time: 22:01

Sequence Name: AR1254CCV5

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	259	0.0576965	0.0609948		3.8	+/-20
Aroclor-1254 (1)	A	250.00	268		0.0755710			
Aroclor-1254 (2)	A	250.00	276		0.0302327			
Aroclor-1254 (3)	A	250.00	178		0.0317040			
Aroclor-1254 (4)	A	250.00	280		0.0972457			
Aroclor-1254 (5)	A	250.00	295		0.0702207			
Aroclor 1254 [2C]	A	250.00	245	0.0638047	0.0630650		-2.2	+/-20
Aroclor-1254 (1) [2C]	A	250.00	252		0.0519676			
Aroclor-1254 (2) [2C]	A	250.00	197		0.0326846			
Aroclor-1254 (3) [2C]	A	250.00	238		0.0848118			
Aroclor-1254 (4) [2C]	A	250.00	264		0.0974105			
Aroclor-1254 (5) [2C]	A	250.00	272		0.0484506			
Decachlorobiphenyl	A	40.000	40.9	0.7333327	0.7505966		2.3	+/-20
Tetrachlorometaxylene	A	40.000	36.7	1.1336710	1.0390660		-8.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0830860		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9957673		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172237ECD7.D
Data file 2: /221217.b/221217.b/12172237ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 17-DEC-2022 22:01
Report Date: 12/20/2022 15:08
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.836	0.000	223167	5.713	0.002	124803	36.7	36.3	0.9	Tetrachloro-m-xylene
13.907	-0.001	338614	14.134	0.000	229500	40.9	38.1	7.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	429553	-4.0
Hexabromobiphenyl	798898	902253	12.9

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	250667	0.6
Hexabromobiphenyl	362541	423789	16.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.319	-0.002	101443	268.2	1	9.466	0.002	40708	251.9	
Aroclor-1254	2	9.399	-0.003	40583	275.9	2	9.983	0.002	25603	197.0	
Aroclor-1254	3	9.693	-0.001	42558	178.2	3	10.137	0.003	66436	237.9	
Aroclor-1254	4	9.827	-0.003	130538	280.3	4	10.384	0.002	76305	263.8	
Aroclor-1254	5	10.185	-0.004	94261	295.3	5	10.581	0.002	37953	272.0	
Total CollAve (5 peaks):				259.6		Total Col2Ave (5 peaks):				244.5	RPD = 6
Corrected Ave (4 peaks):				250.7		Corrected Ave (4 peaks):				237.6	RPD = 5
CalAmt %D:				3.8		CalAmt %D:				-2.2	

Total PCB Area Col1 (5.936 - 13.808) = 1363315 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 700189 Col2 Total PCB = 0.4 ppm*

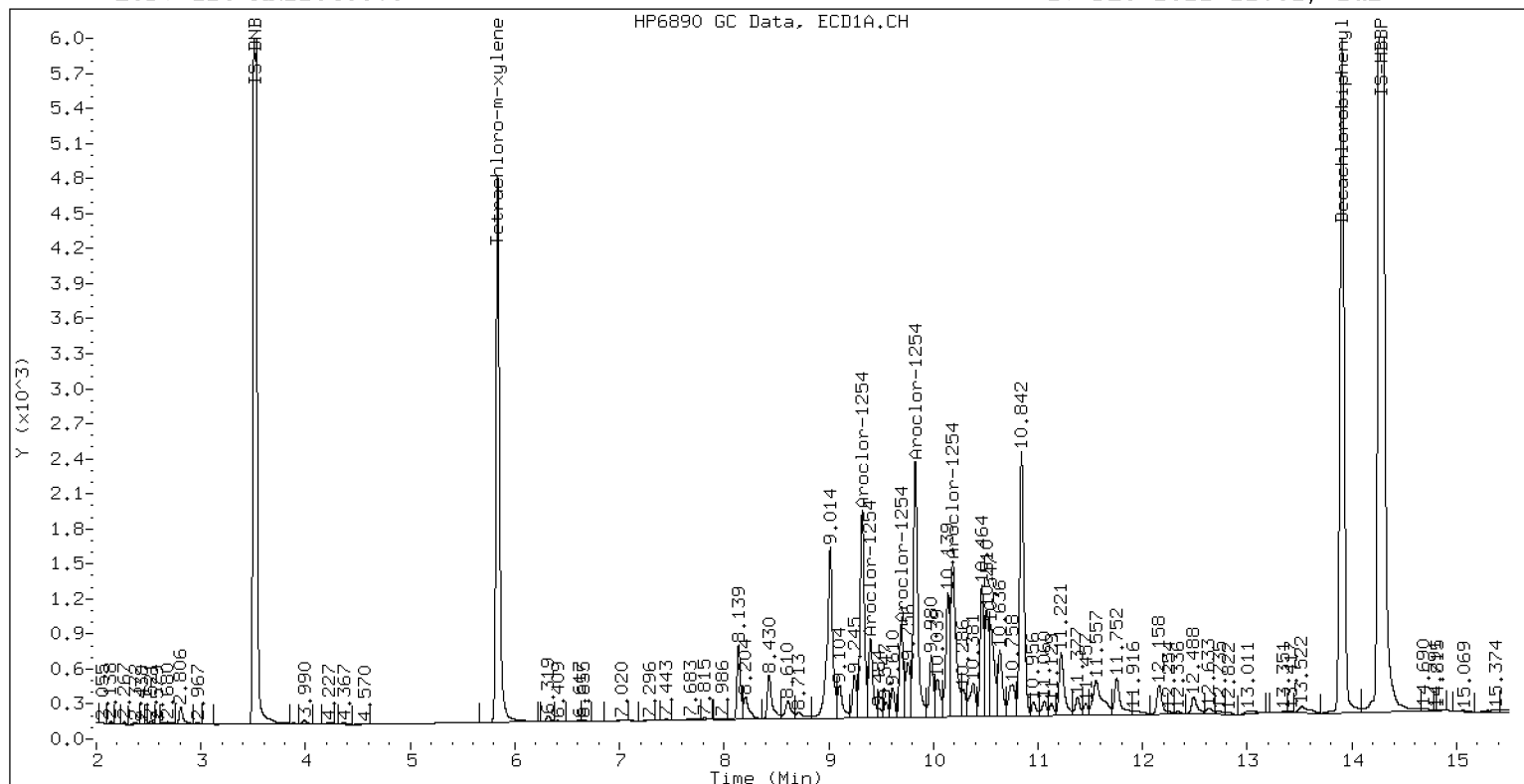
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5

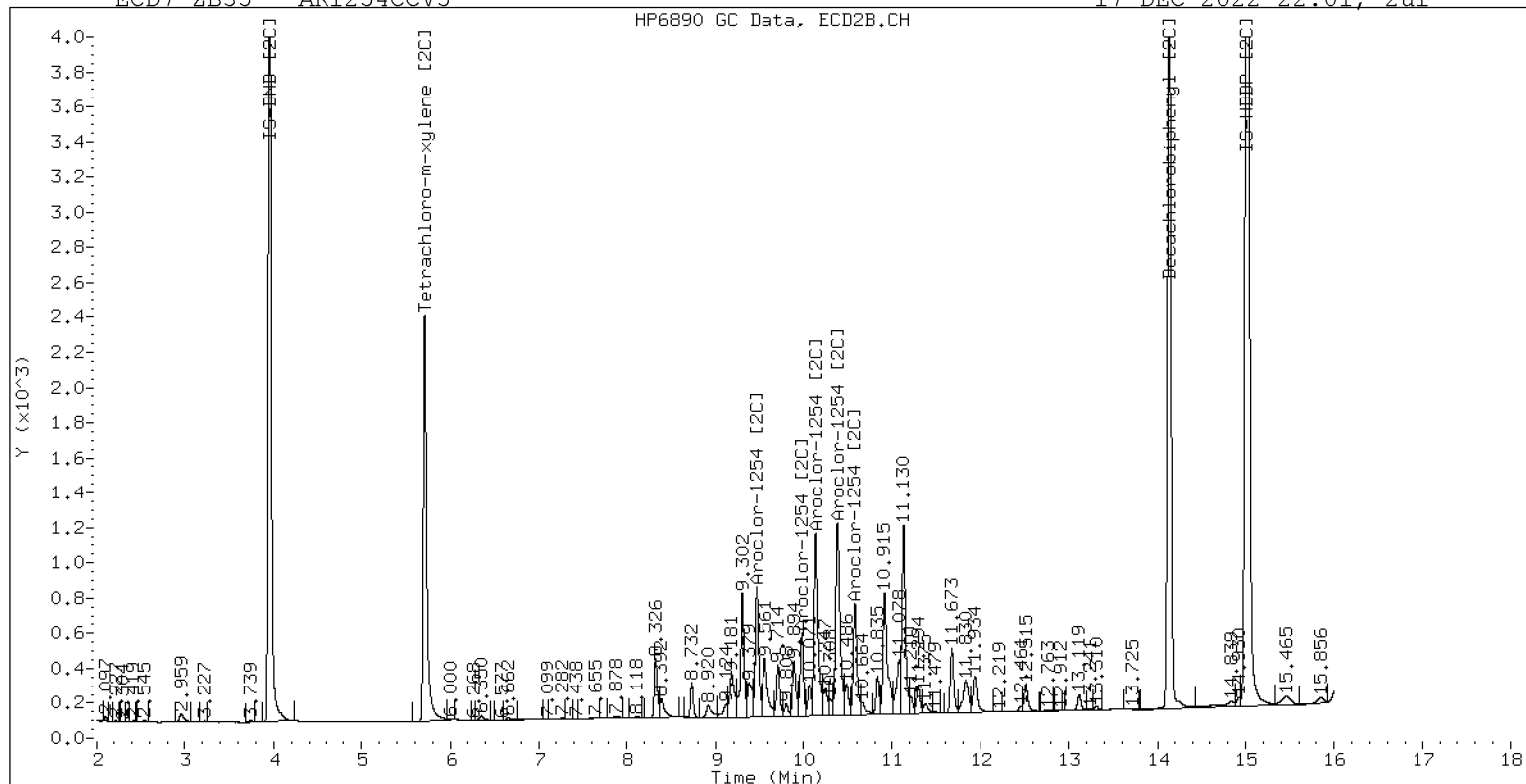
17-DEC-2022 22:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5

17-DEC-2022 22:01, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172238ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/17/22

Lab Sample ID: SKL0280-CCV6

Injection Time: 22:22

Sequence Name: AR1660CCV6

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	279	0.0441939	0.0485790		11.5	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290200		8.8	
Aroclor-1016 (2)	A	250.00	265	0.0861572	0.0914266		6.0	
Aroclor-1016 (3)	A	250.00	286	0.0390425	0.0447486		14.4	
Aroclor-1016 (4)	A	250.00	292	0.0248899	0.0291207		16.8	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0444793		-3.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	245	0.0409030	0.0401480		-2.0	
Aroclor-1016 (2) [2C]	A	250.00	233	0.0882154	0.0821400		-6.8	
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356529		-6.0	
Aroclor-1016 (4) [2C]	A	250.00	251	0.0199212	0.0199765		0.4	
Aroclor 1260	A	250.00	249	0.0390342	0.0389341		-0.2	+/-20
Aroclor-1260 (1)	A	250.00	250	0.0291201	0.0291165		0.0	
Aroclor-1260 (2)	A	250.00	255	0.0301181	0.0307562		2.0	
Aroclor-1260 (3)	A	250.00	254	0.0791351	0.0804781		1.6	
Aroclor-1260 (4)	A	250.00	232	0.0403003	0.0374380		-7.2	
Aroclor-1260 (5)	A	250.00	256	0.0164974	0.0168816		2.4	
Aroclor 1260 [2C]	A	250.00	205	0.0617619	0.0502257		-17.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	199	0.0422283	0.0336873		-20.4	
Aroclor-1260 (2) [2C]	A	250.00	197	0.1059643	0.0836544		-21.2	
Aroclor-1260 (3) [2C]	A	250.00	215	0.0282173	0.0242809		-14.0	
Aroclor-1260 (4) [2C]	A	250.00	210	0.0706376	0.0592801		-16.0	
Decachlorobiphenyl	A	40.000	42.5	0.7333327	0.7793703		6.3	+/-20
Tetrachlorometaxylene	A	40.000	40.6	1.1336710	1.1494320		1.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.4	1.1358180	1.0622980		-6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.4	1.0966080	1.0801490		-1.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172238ECD7.D
 Data file 2: /221217.b/221217.b/12172238ECD7.D
 Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
 Compound Sublist: AR1660.sub
 Instrument, Inj. Vol.: ecd7.i, 2ul
 Quant Method: Internal Std

ARI ID: AR1660CCV6
 Client ID:
 Injection Date: 17-DEC-2022 22:22
 Report Date: 12/20/2022 15:08
 Matrix: NONE
 Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.834	-0.002	213707	5.711	0.001	116958	40.6	39.4	2.9	Tetrachloro-m-xylene
13.905	-0.002	331730	14.134	0.000	203786	42.5	37.4	12.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	371848	-16.9
Hexabromobiphenyl	798898	851277	6.6
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	216559	-13.1
Hexabromobiphenyl	362541	383670	5.8

* Standard Areas taken from Initial Cal Level 3
 Initial Calibration Date: 03-DEC-2022
 <- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.291	-0.003	33722	271.9	1	7.276	0.001	27170	245.4	
Aroclor-1016	2	7.680	-0.004	106240	265.3	2	7.874	0.002	55588	232.8	
Aroclor-1016	3	7.816	-0.002	51999	286.5	3	8.074	0.002	24128	235.3	
Aroclor-1016	4	8.427	-0.003	33839	292.5	4	8.245	0.002	13519	250.7	
Total CollAve (4 peaks):				279.0		Total Col2Ave (4 peaks):				241.0	RPD = 15
Corrected Ave (3 peaks):				274.6		Corrected Ave (3 peaks):				237.8	RPD = 14
CalAmt %D:				11.6		CalAmt %D:				-3.6	
Aroclor-1260	1	11.060	-0.002	77457	250.0	1	11.668	0.001	40390	199.4	
Aroclor-1260	2	11.377	-0.001	81819	255.3	2	11.931	0.001	100299	197.4	
Aroclor-1260	3	11.750	-0.002	214091	254.2	3	12.450	0.001	29112	215.1	
Aroclor-1260	4	12.156	-0.003	99594	232.2	4	12.515	0.002	71075	209.8	
Aroclor-1260	5	12.259	-0.003	44909	255.8	NS	---			----	
Total CollAve (5 peaks):				249.5		Total Col2Ave (4 peaks):				205.4	RPD = 19
Corrected Ave (4 peaks):				247.9		Corrected Ave (3 peaks):				202.2	RPD = 20
CalAmt %D:				-0.2		CalAmt %D:				-17.8	

Total PCB Area Coll (5.936 - 13.808) = 2274699 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1009951 Col2 Total PCB = 0.7 ppm*

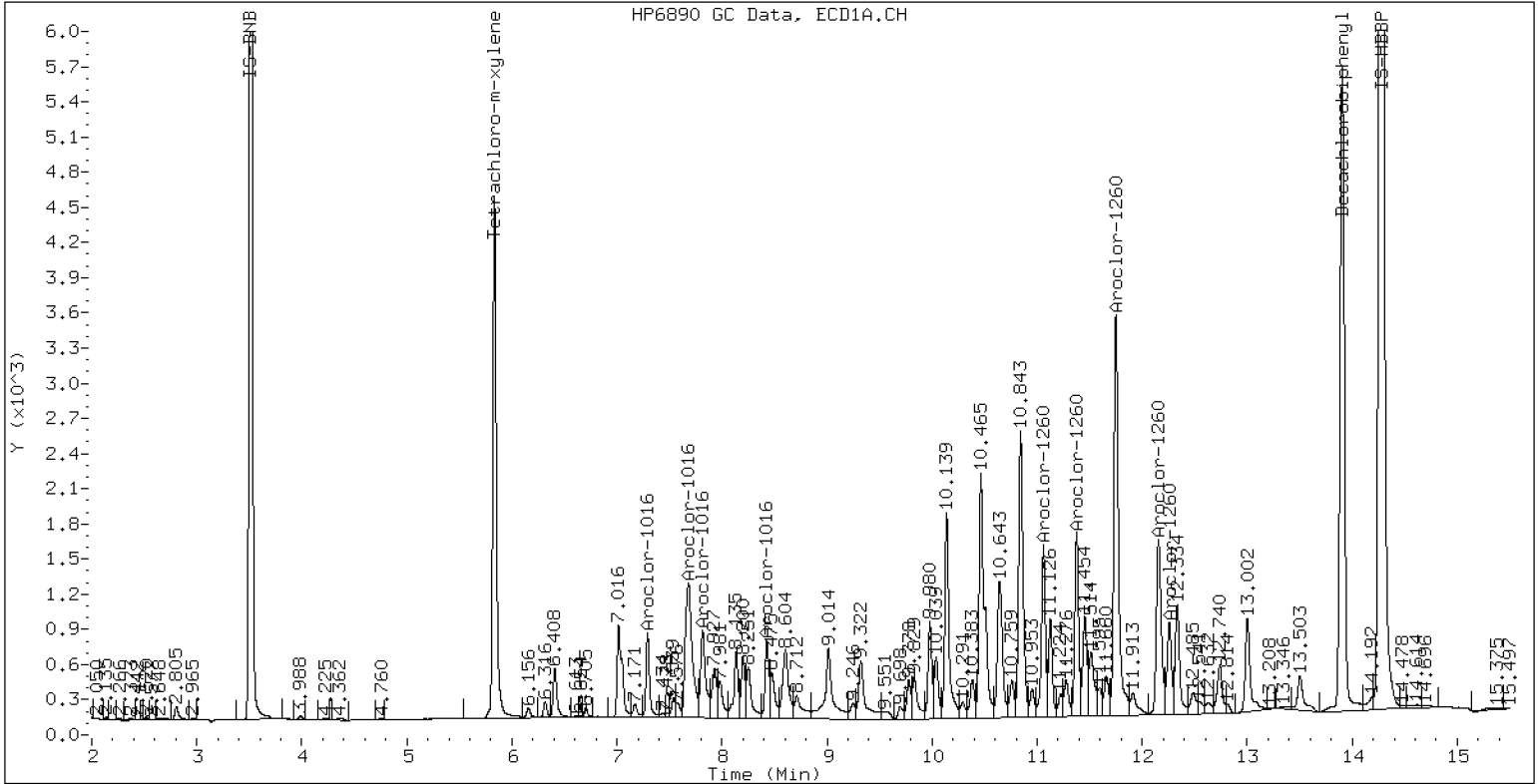
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6

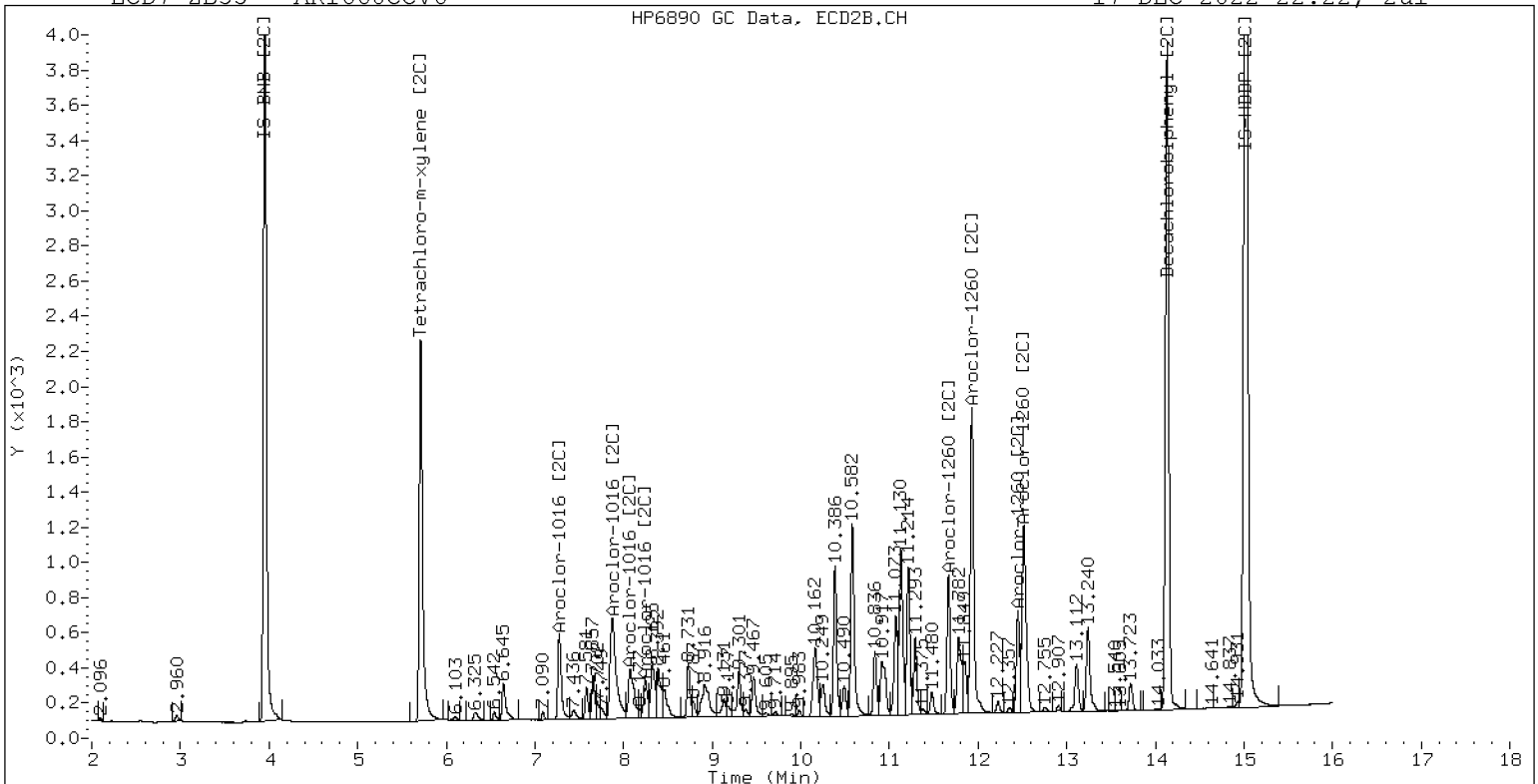
17-DEC-2022 22:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6

17-DEC-2022 22:22, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12172252ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0280</u>	Injection Date:	<u>12/18/22</u>
Lab Sample ID:	<u>SKL0280-CCV7</u>	Injection Time:	<u>03:20</u>
Sequence Name:	<u>AR1248CCV7</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	241	0.0490062	0.0481549		-3.7	+/-20
Aroclor-1248 (1)	A	250.00	263		0.0361547			
Aroclor-1248 (2)	A	250.00	278		0.0488627			
Aroclor-1248 (3)	A	250.00	263		0.0830110			
Aroclor-1248 (4)	A	250.00	159		0.0245912			
Aroclor 1248 [2C]	A	250.00	235	0.0394876	0.0372155		-5.9	+/-20
Aroclor-1248 (1) [2C]	A	250.00	249		0.0325984			
Aroclor-1248 (2) [2C]	A	250.00	205		0.0281481			
Aroclor-1248 (3) [2C]	A	250.00	254		0.0424289			
Aroclor-1248 (4) [2C]	A	250.00	233		0.0456865			
Decachlorobiphenyl	A	40.000	43.3	0.7333327	0.7940714		8.3	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0585410		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.8	1.1358180	1.1303120		-0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.0966080	1.0163000		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172252ECD7.D
Data file 2: /221217.b/221217.b/12172252ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 18-DEC-2022 03:20
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col		ZB35 Col			ZB5	ZB35	RPD	Compound/Flag	
RT	Shift	Response	RT	Shift	Response	on col			on col
5.835	-0.001	233658	5.711	0.001	132926	37.3	37.1	0.7	Tetrachloro-m-xylene
13.905	-0.003	225768	14.133	-0.001	183409	43.3	39.8	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	441472	-1.4
Hexabromobiphenyl	798898	568634	-28.8

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	261588	5.0
Hexabromobiphenyl	362541	324528	-10.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.426	-0.002	49879	262.8	1	8.325	0.000	26648	249.4
Aroclor-1248	2	8.601	-0.003	67411	278.2	2	8.730	0.000	23010	204.7
Aroclor-1248	3	9.020	-0.002	114522	262.7	3	9.175	0.000	34684	253.7
Aroclor-1248	4	9.311	-0.000	33926	158.8	4	9.598	0.000	37347	232.7
Total Col1Ave (4 peaks):				240.6	Total Col2Ave (4 peaks):				235.1	RPD = 2
Corrected Ave (3 peaks):				228.1	Corrected Ave (3 peaks):				228.9	RPD = 0
CalAmt %D:				-3.8	CalAmt %D:				-6.0	

Total PCB Area Col1 (5.936 - 13.808) = 1040946 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 498717 Col2 Total PCB = 0.3 ppm*

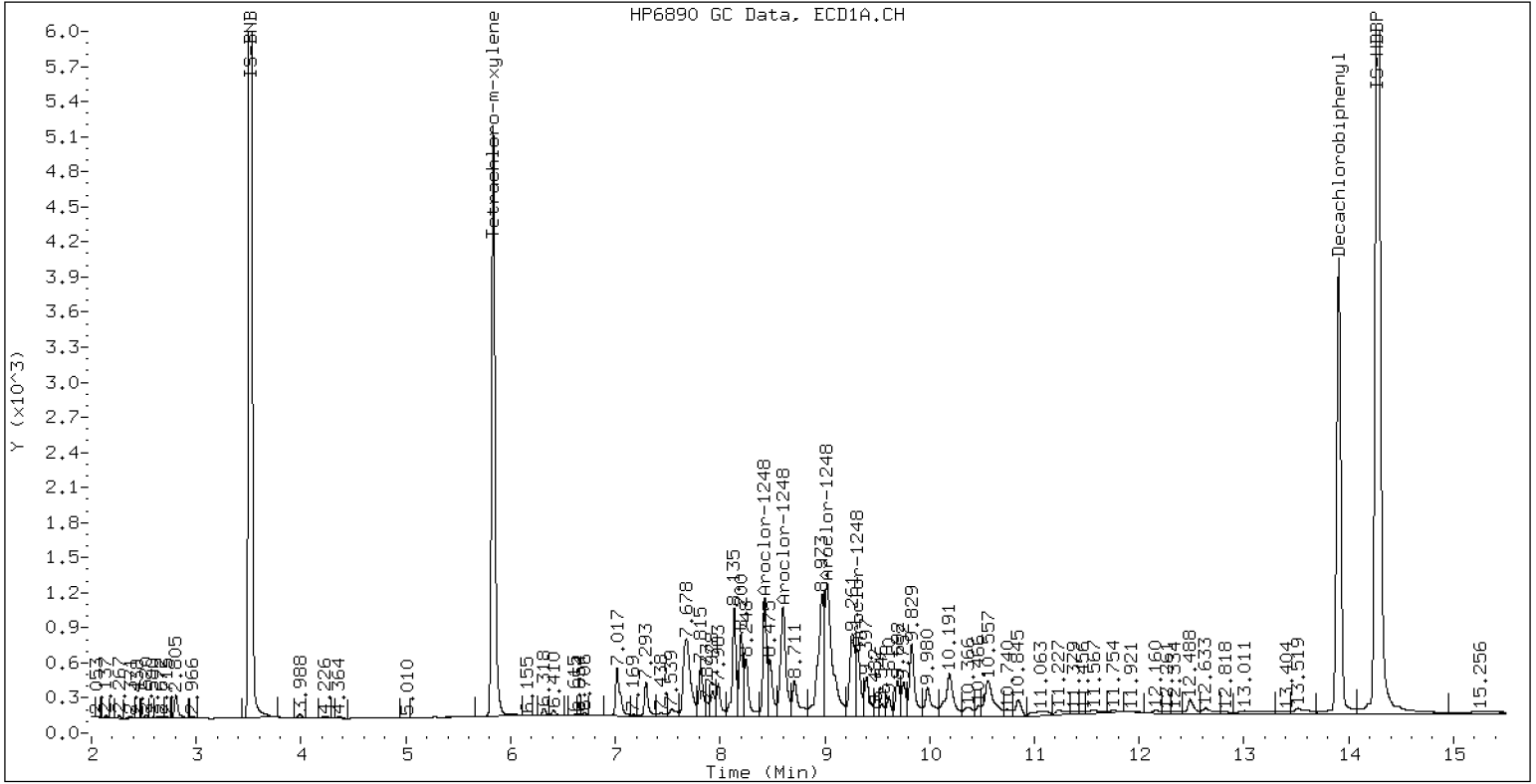
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7

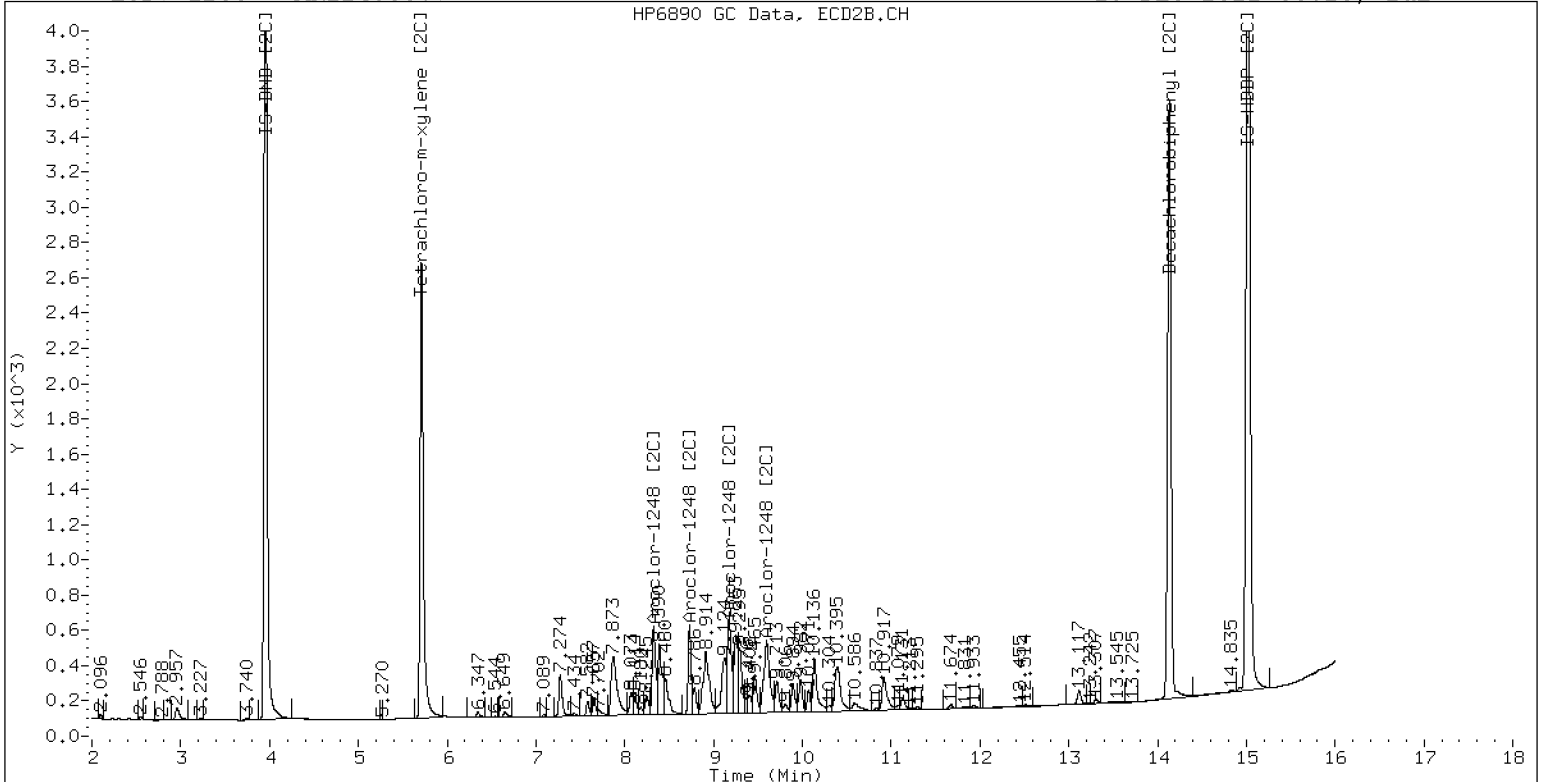
18-DEC-2022 03:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7

18-DEC-2022 03:20, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172253ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/18/22

Lab Sample ID: SKL0280-CCV8

Injection Time: 03:41

Sequence Name: AR1660CCV8

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	293	0.0441939	0.0508705		17.2	+/-20
Aroclor-1016 (1)	A	250.00	297	0.0266860	0.0316857		18.8	
Aroclor-1016 (2)	A	250.00	277	0.0861572	0.0956265		10.8	
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459226		17.6	
Aroclor-1016 (4)	A	250.00	304	0.0248899	0.0302473		21.6	
Aroclor 1016 [2C]	A	250.00	243	0.0467310	0.0446274		-2.7	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407891		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	232	0.0882154	0.0817161		-7.2	
Aroclor-1016 (3) [2C]	A	250.00	234	0.0378846	0.0354306		-6.4	
Aroclor-1016 (4) [2C]	A	250.00	258	0.0199212	0.0205737		3.2	
Aroclor 1260	A	250.00	322	0.0390342	0.0500154		28.6	+/-20 *
Aroclor-1260 (1)	A	250.00	327	0.0291201	0.0380842		30.8	
Aroclor-1260 (2)	A	250.00	329	0.0301181	0.0396188		31.6	
Aroclor-1260 (3)	A	250.00	323	0.0791351	0.1023584		29.2	
Aroclor-1260 (4)	A	250.00	300	0.0403003	0.0483100		20.0	
Aroclor-1260 (5)	A	250.00	329	0.0164974	0.0217057		31.6	
Aroclor 1260 [2C]	A	250.00	237	0.0617619	0.0576139		-5.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	236	0.0422283	0.0398084		-5.6	
Aroclor-1260 (2) [2C]	A	250.00	227	0.1059643	0.0961333		-9.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279376		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	236	0.0706376	0.0665763		-5.6	
Decachlorobiphenyl	A	40.000	45.0	0.7333327	0.8245397		12.5	+/-20
Tetrachlorometaxylene	A	40.000	42.2	1.1336710	1.1954880		5.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.3	1.1358180	1.1451770		0.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0933540		-0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172253ECD7.D
Data file 2: /221217.b/221217.b/12172253ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 18-DEC-2022 03:41
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	221011	5.712	0.002	120597	42.2	39.9	5.6	Tetrachloro-m-xylene
13.905	-0.003	247331	14.132	-0.001	181703	45.0	40.3	10.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	369742	-17.4
Hexabromobiphenyl	798898	599925	-24.9
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220600	-11.4
Hexabromobiphenyl	362541	317336	-12.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.292	-0.003	36611	296.8	1	7.275	0.000	28119	249.3	
Aroclor-1016	2	7.679	-0.006	110491	277.5	2	7.873	-0.000	56333	231.6	
Aroclor-1016	3	7.813	-0.004	53061	294.1	3	8.073	0.001	24425	233.8	
Aroclor-1016	4	8.426	-0.003	34949	303.8	4	8.244	0.001	14183	258.2	
Total CollAve (4 peaks):				293.0		Total Col2Ave (4 peaks):				243.2	RPD = 19
Corrected Ave (3 peaks):				289.5		Corrected Ave (3 peaks):				238.2	RPD = 19
CalAmt %D:				17.2		CalAmt %D:				-2.7	
Aroclor-1260	1	11.059	-0.003	71399	327.0	1	11.667	-0.000	39477	235.7	
Aroclor-1260	2	11.375	-0.002	74276	328.9	2	11.929	-0.001	95333	226.8	
Aroclor-1260	3	11.749	-0.003	191898	323.4	3	12.449	-0.000	27705	247.5	
Aroclor-1260	4	12.153	-0.005	90570	299.7	4	12.514	0.001	66022	235.6	
Aroclor-1260	5	12.258	-0.003	40693	328.9	NS	---			----	
Total CollAve (5 peaks):				321.6		Total Col2Ave (4 peaks):				236.4	RPD = 31
Corrected Ave (4 peaks):				319.7		Corrected Ave (3 peaks):				232.7	RPD = 32
CalAmt %D:				28.6		CalAmt %D:				-5.4	

Total PCB Area Coll (5.936 - 13.808) = 2169464 Coll Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 996999 Col2 Total PCB = 0.6 ppm*

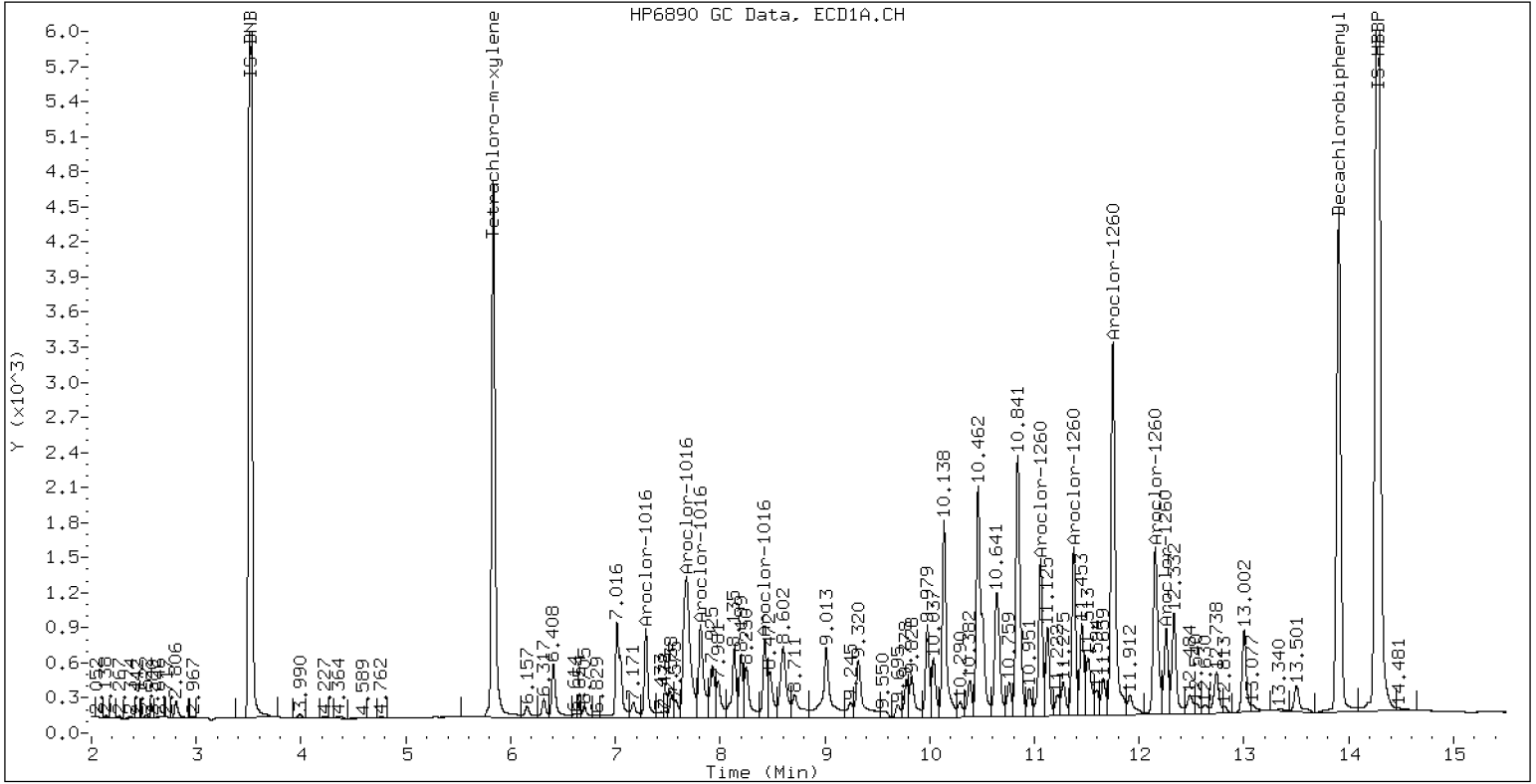
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8

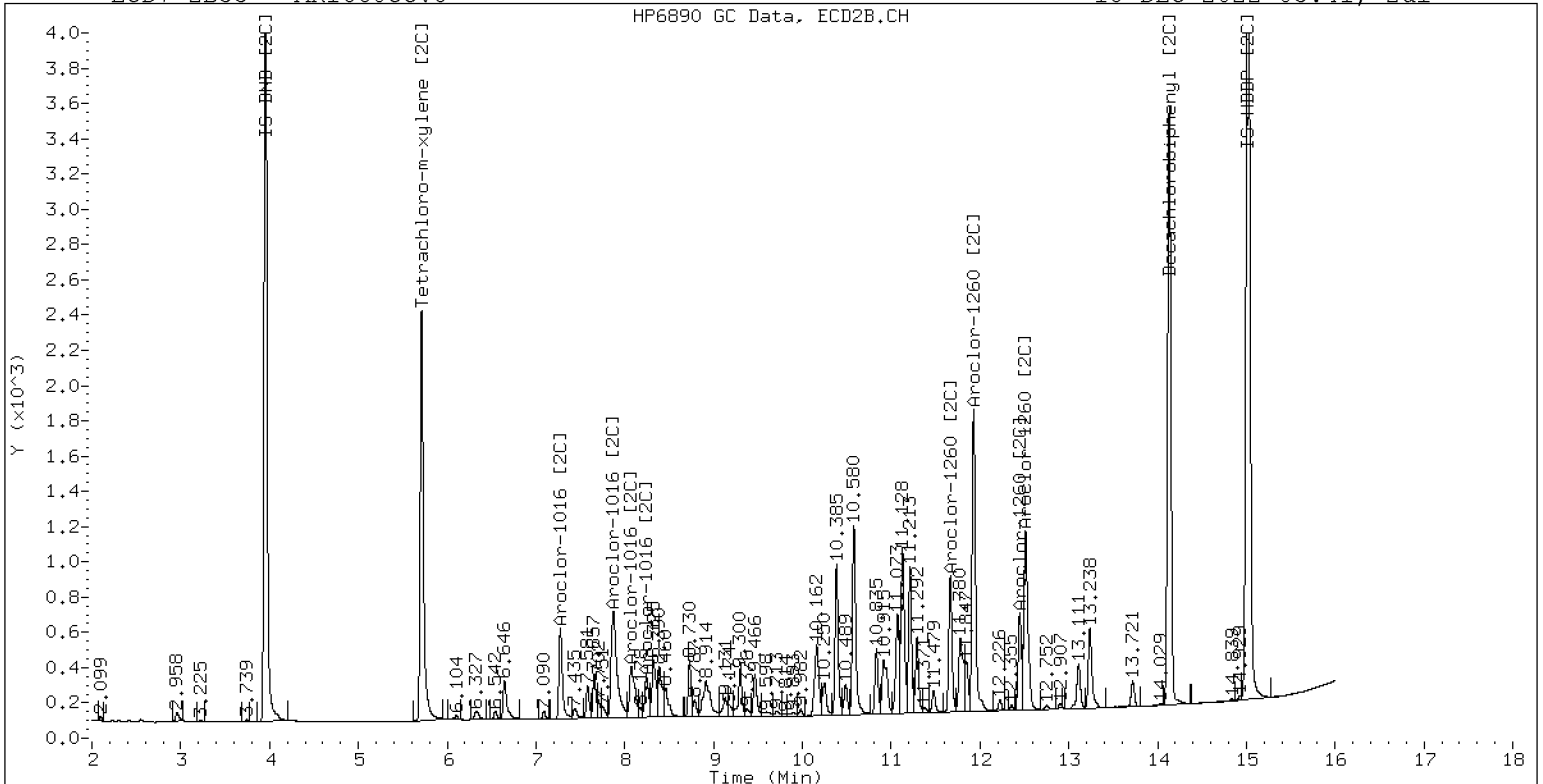
18-DEC-2022 03:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8

18-DEC-2022 03:41, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172264ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/18/22

Lab Sample ID: SKL0280-CCV9

Injection Time: 07:35

Sequence Name: AR1242CCV9

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	281	0.0396000	0.0441469		12.2	+/-20
Aroclor-1242 (1)	A	250.00	260		0.0236025			
Aroclor-1242 (2)	A	250.00	270		0.0776419			
Aroclor-1242 (3)	A	250.00	297		0.0245779			
Aroclor-1242 (4)	A	250.00	295		0.0507653			
Aroclor 1242 [2C]	A	250.00	253	0.0391981	0.0380867		1.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	249		0.0336731			
Aroclor-1242 (2) [2C]	A	250.00	221		0.0634525			
Aroclor-1242 (3) [2C]	A	250.00	282		0.0261181			
Aroclor-1242 (4) [2C]	A	250.00	261		0.0291029			
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8140956		11.0	+/-20
Tetrachlorometaxylene	A	40.000	37.6	1.1336710	1.0646340		-6.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1482680		1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0157000		-7.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172264ECD7.D
Data file 2: /221217.b/221217.b/12172264ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 18-DEC-2022 07:35
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.002	234014	5.712	0.002	132850	37.6	37.0	1.4	Tetrachloro-m-xylene
13.904	-0.003	284734	14.133	-0.000	204491	44.4	40.4	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439614	-1.8
Hexabromobiphenyl	798898	699510	-12.4

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	261593	5.0
Hexabromobiphenyl	362541	356173	-1.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col						ZB35 Col					
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1242	1	7.291	-0.003	32425	260.2	1	7.275	0.000	27527	248.6	
Aroclor-1242	2	7.678	-0.007	106664	269.6	2	7.873	0.000	51871	220.7	
Aroclor-1242	3	8.425	-0.005	33765	296.6	3	9.175	0.000	21351	281.6	
Aroclor-1242	4	9.026	-0.005	69741	295.1	4	9.598	0.000	23791	261.1	
Total CollAve (4 peaks):				280.4	Total Col2Ave (4 peaks):				253.0	RPD = 10	
Corrected Ave (3 peaks):				275.0	Corrected Ave (3 peaks):				243.5	RPD = 12	
CalAmt %D:				12.2	CalAmt %D:				1.2		

Total PCB Area Col1 (5.936 - 13.808) = 894196 Col1 Total PCB = 0.2 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 418139 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172265ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/18/22

Lab Sample ID: SKL0280-CCVA

Injection Time: 07:56

Sequence Name: AR1660CCVA

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	284	0.0441939	0.0494436		13.7	+/-20
Aroclor-1016 (1)	A	250.00	276	0.0266860	0.0294999		10.4	
Aroclor-1016 (2)	A	250.00	272	0.0861572	0.0935956		8.8	
Aroclor-1016 (3)	A	250.00	282	0.0390425	0.0441255		12.8	
Aroclor-1016 (4)	A	250.00	307	0.0248899	0.0305532		22.8	
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0445560		-2.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407707		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	230	0.0882154	0.0810585		-8.0	
Aroclor-1016 (3) [2C]	A	250.00	235	0.0378846	0.0356022		-6.0	
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0207926		4.4	
Aroclor 1260	A	250.00	309	0.0390342	0.0481082		23.8	+/-20 *
Aroclor-1260 (1)	A	250.00	317	0.0291201	0.0369434		26.8	
Aroclor-1260 (2)	A	250.00	316	0.0301181	0.0380768		26.4	
Aroclor-1260 (3)	A	250.00	310	0.0791351	0.0981726		24.0	
Aroclor-1260 (4)	A	250.00	289	0.0403003	0.0465614		15.6	
Aroclor-1260 (5)	A	250.00	315	0.0164974	0.0207871		26.0	
Aroclor 1260 [2C]	A	250.00	239	0.0617619	0.0577912		-4.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	239	0.0422283	0.0403970		-4.4	
Aroclor-1260 (2) [2C]	A	250.00	225	0.1059643	0.0954271		-10.0	
Aroclor-1260 (3) [2C]	A	250.00	255	0.0282173	0.0287657		2.0	
Aroclor-1260 (4) [2C]	A	250.00	236	0.0706376	0.0665750		-5.6	
Decachlorobiphenyl	A	40.000	46.3	0.7333327	0.8486500		15.8	+/-20
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1669220		3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1461390		1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.2	1.0966080	1.1029420		0.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172265ECD7.D
Data file 2: /221217.b/221217.b/12172265ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 18-DEC-2022 07:56
Report Date: 12/20/2022 15:09
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	217670	5.712	0.002	123497	41.2	40.2	2.3	Tetrachloro-m-xylene
13.904	-0.003	272782	14.133	-0.001	184608	46.3	40.4	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	373067	-16.7
Hexabromobiphenyl	798898	642861	-19.5

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223941	-10.1
Hexabromobiphenyl	362541	322139	-11.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.291	-0.003	34392	276.4	1	7.275	0.000	28532	249.2	
Aroclor-1016	2	7.679	-0.005	109117	271.6	2	7.872	-0.000	56726	229.7	
Aroclor-1016	3	7.813	-0.004	51443	282.5	3	8.072	0.000	24915	234.9	
Aroclor-1016	4	8.425	-0.004	35620	306.9	4	8.243	-0.000	14551	260.9	
Total CollAve (4 peaks):				284.3		Total Col2Ave (4 peaks):				243.7	RPD = 15
Corrected Ave (3 peaks):				276.8		Corrected Ave (3 peaks):				237.9	RPD = 15
CalAmt %D:				13.7		CalAmt %D:				-2.5	
Aroclor-1260	1	11.058	-0.004	74217	317.2	1	11.667	-0.000	40667	239.2	
Aroclor-1260	2	11.375	-0.003	76494	316.1	2	11.929	-0.001	96065	225.1	
Aroclor-1260	3	11.748	-0.004	197223	310.1	3	12.449	-0.000	28958	254.9	
Aroclor-1260	4	12.152	-0.006	93539	288.8	4	12.512	-0.001	67020	235.6	
Aroclor-1260	5	12.257	-0.004	41760	315.0	NS	---			----	
Total CollAve (5 peaks):				309.4		Total Col2Ave (4 peaks):				238.7	RPD = 26
Corrected Ave (4 peaks):				307.5		Corrected Ave (3 peaks):				233.3	RPD = 27
CalAmt %D:				23.8		CalAmt %D:				-4.5	

Total PCB Area Col1 (5.936 - 13.808) = 2175382 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 1015287 Col2 Total PCB = 0.6 ppm*

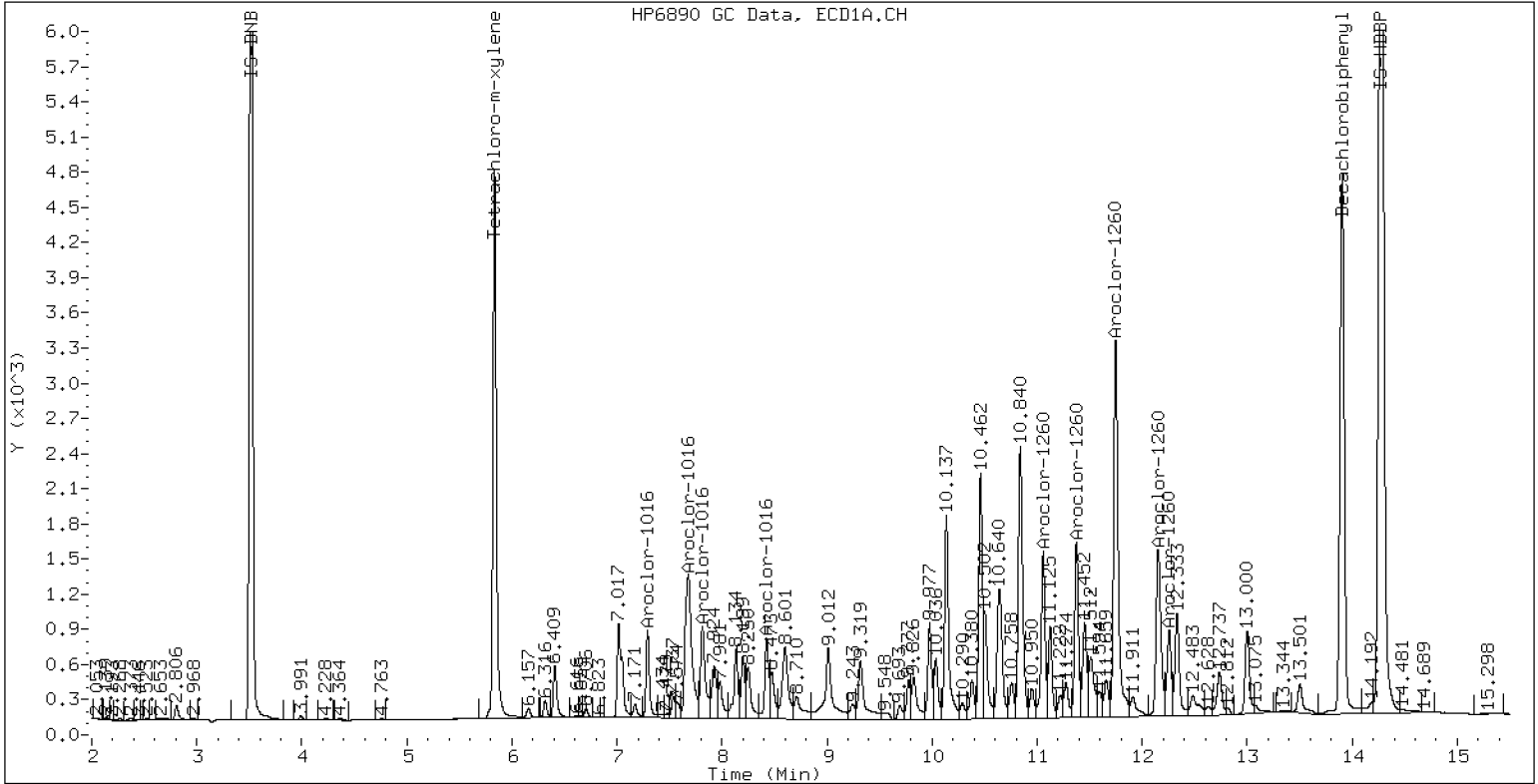
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA

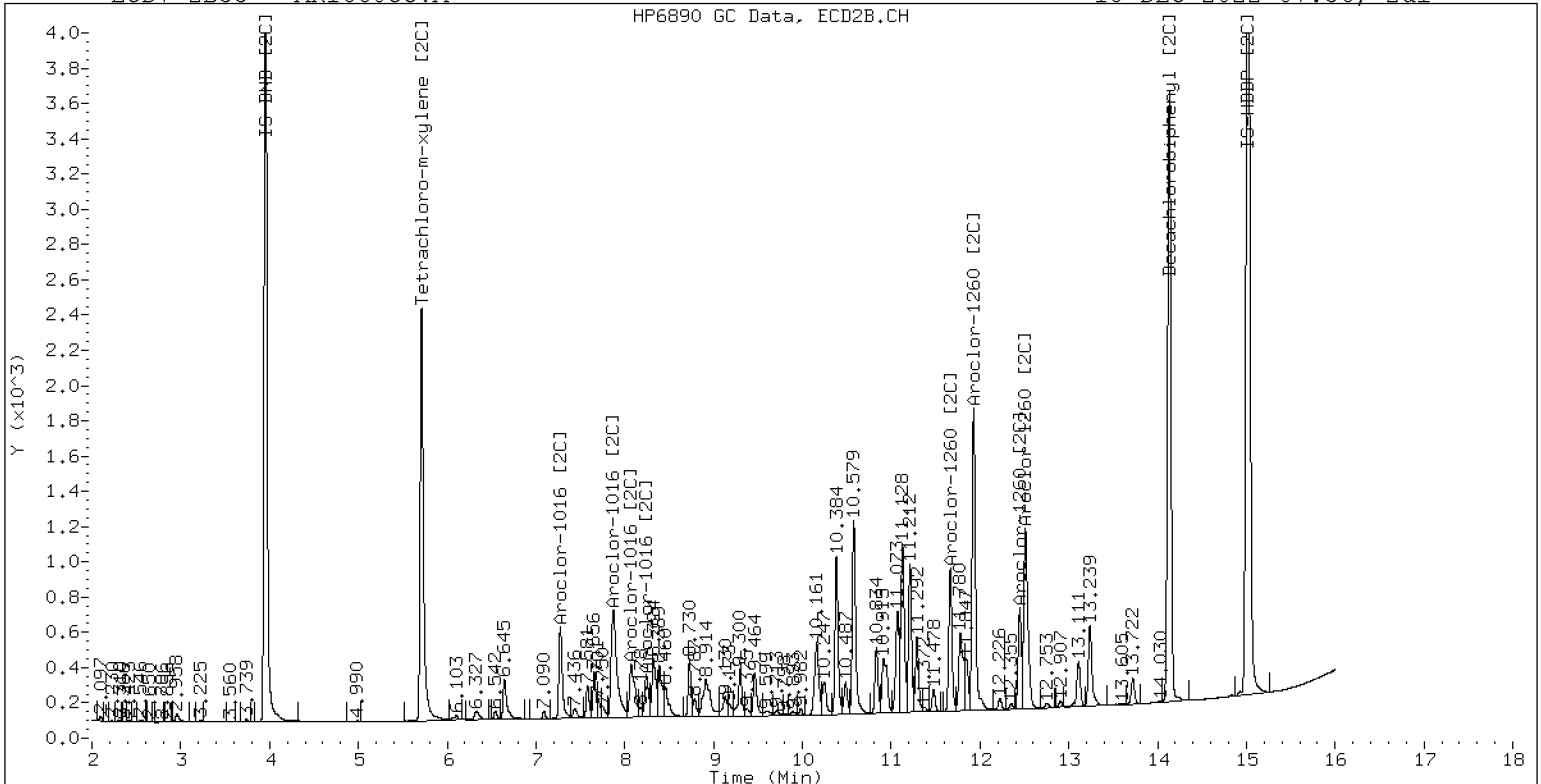
18-DEC-2022 07:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA

18-DEC-2022 07:56, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Instrument ID:	<u>ECD7</u>	Calibration:	<u>FL00010</u>
Lab File ID:	<u>12172279ECD7.D</u>	Calibration Date:	<u>12/03/2022</u>
Sequence:	<u>SKL0280</u>	Injection Date:	<u>12/18/22</u>
Lab Sample ID:	<u>SKL0280-CCVB</u>	Injection Time:	<u>12:54</u>
Sequence Name:	<u>AR1254CCVB</u>		

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	265	0.0576965	0.0622616		6.1	+/-20
Aroclor-1254 (1)	A	250.00	269		0.0758909			
Aroclor-1254 (2)	A	250.00	280		0.0307114			
Aroclor-1254 (3)	A	250.00	188		0.0333939			
Aroclor-1254 (4)	A	250.00	285		0.0989986			
Aroclor-1254 (5)	A	250.00	304		0.0723133			
Aroclor 1254 [2C]	A	250.00	241	0.0638047	0.0623188		-3.5	+/-20
Aroclor-1254 (1) [2C]	A	250.00	250		0.0515827			
Aroclor-1254 (2) [2C]	A	250.00	191		0.0317388			
Aroclor-1254 (3) [2C]	A	250.00	235		0.0837859			
Aroclor-1254 (4) [2C]	A	250.00	262		0.0967232			
Aroclor-1254 (5) [2C]	A	250.00	268		0.0477633			
Decachlorobiphenyl	A	40.000	40.9	0.7333327	0.7502408		2.3	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0536220		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.4	1.1358180	1.1183640		-1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9949294		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172279ECD7.D
Data file 2: /221217.b/221217.b/12172279ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 18-DEC-2022 12:54
Report Date: 12/20/2022 15:10
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.835	-0.001	239376	5.712	0.001	131955	37.2	36.3	2.4	Tetrachloro-m-xylene
13.904	-0.003	370350	14.132	-0.002	240875	40.9	39.4	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	454387	1.5
Hexabromobiphenyl	798898	987283	23.6
Column 2			
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	265255	6.5
Hexabromobiphenyl	362541	430763	18.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022

<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1254	1	9.317	-0.004	107762	269.4	1	9.464	0.000	42758	250.0	
Aroclor-1254	2	9.396	-0.005	43609	280.3	2	9.981	0.000	26309	191.3	
Aroclor-1254	3	9.690	-0.004	47418	187.7	3	10.134	0.000	69452	235.0	
Aroclor-1254	4	9.826	-0.005	140574	285.4	4	10.382	0.000	80176	261.9	
Aroclor-1254	5	10.182	-0.007	102682	304.1	5	10.579	0.000	39592	268.2	
Total CollAve (5 peaks):				265.4		Total Col2Ave (5 peaks):				241.3	RPD = 10
Corrected Ave (4 peaks):				255.7		Corrected Ave (4 peaks):				234.6	RPD = 9
CalAmt %D:				6.1		CalAmt %D:				-3.5	

Total PCB Area Col1 (5.936 - 13.808) = 1491519 Col1 Total PCB = 0.3 ppm*

Total PCB Area Col2 (5.936 - 13.808) = 733927 Col2 Total PCB = 0.4 ppm*

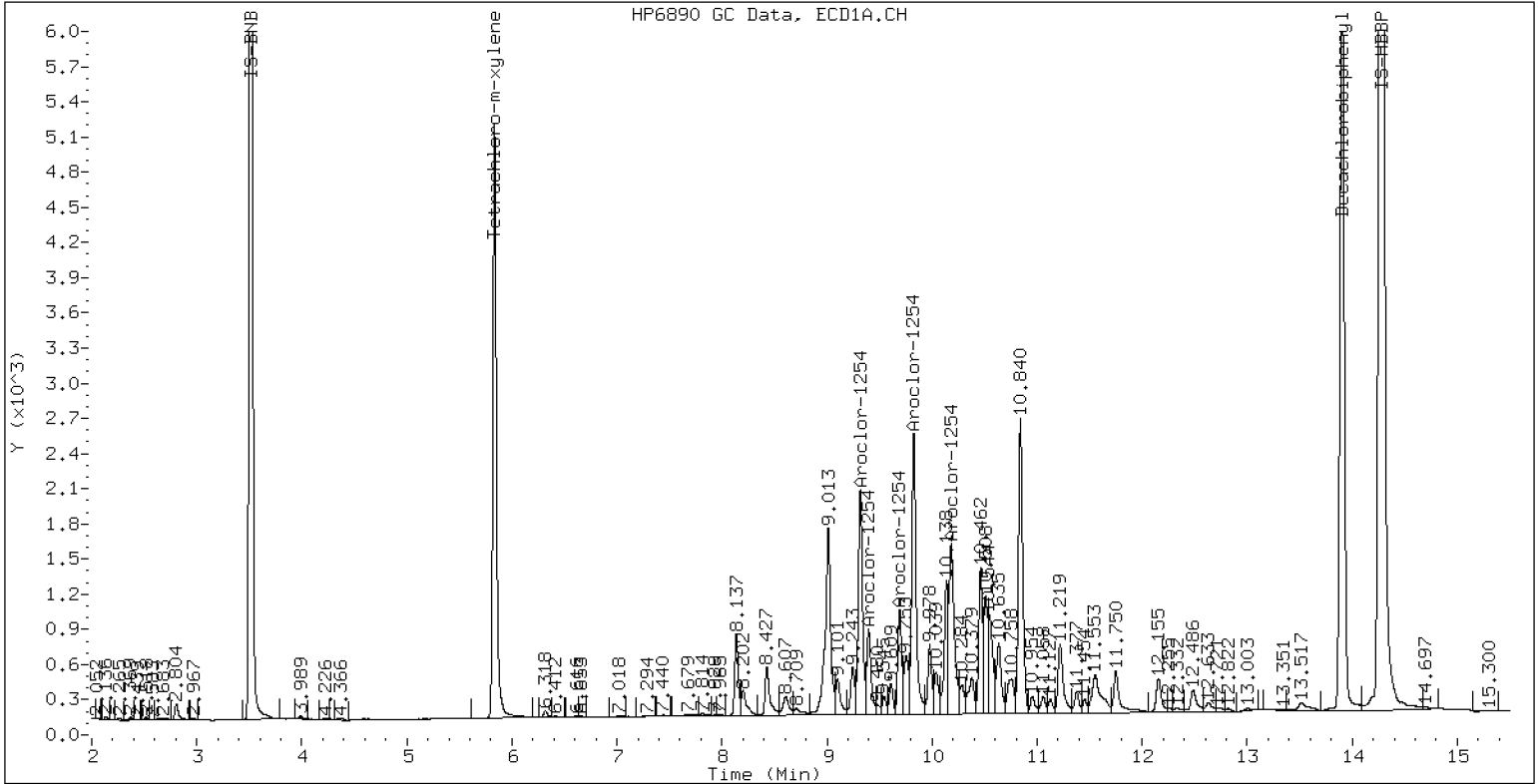
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB

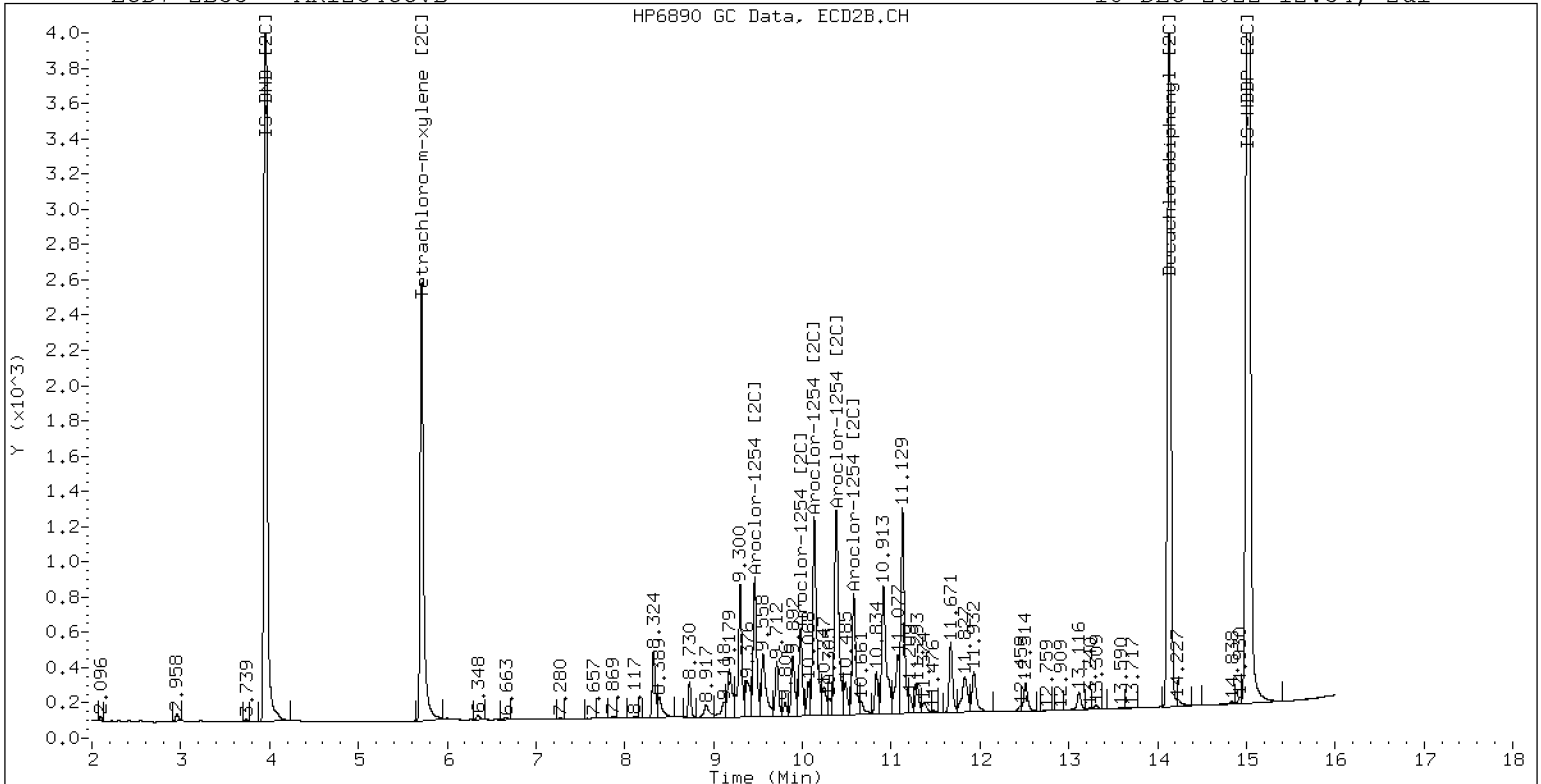
18-DEC-2022 12:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB

18-DEC-2022 12:54, 2ul



ZB-35 Manual Integration: NO



CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: ECD7

Calibration: FL00010

Lab File ID: 12172280ECD7.D

Calibration Date: 12/03/2022

Sequence: SKL0280

Injection Date: 12/18/22

Lab Sample ID: SKL0280-CCVC

Injection Time: 13:15

Sequence Name: AR1660CCVC

COMPOUND	TYPE	CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	288	0.0441939	0.0498279		15.0	+/-20
Aroclor-1016 (1)	A	250.00	296	0.0266860	0.0315831		18.4	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0933001		8.4	
Aroclor-1016 (3)	A	250.00	288	0.0390425	0.0450132		15.2	
Aroclor-1016 (4)	A	250.00	295	0.0248899	0.0294150		18.0	
Aroclor 1016 [2C]	A	250.00	247	0.0467310	0.0453106		-1.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0408820		0.0	
Aroclor-1016 (2) [2C]	A	250.00	235	0.0882154	0.0828502		-6.0	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365520		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	263	0.0199212	0.0209581		5.2	
Aroclor 1260	A	250.00	259	0.0390342	0.0403131		3.8	+/-20
Aroclor-1260 (1)	A	250.00	254	0.0291201	0.0296059		1.6	
Aroclor-1260 (2)	A	250.00	260	0.0301181	0.0313060		4.0	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0828737		4.8	
Aroclor-1260 (4)	A	250.00	246	0.0403003	0.0396524		-1.6	
Aroclor-1260 (5)	A	250.00	275	0.0164974	0.0181274		10.0	
Aroclor 1260 [2C]	A	250.00	213	0.0617619	0.0514896		-15.0	+/-20
Aroclor-1260 (1) [2C]	A	250.00	209	0.0422283	0.0352562		-16.4	
Aroclor-1260 (2) [2C]	A	250.00	199	0.1059643	0.0844559		-20.4	
Aroclor-1260 (3) [2C]	A	250.00	228	0.0282173	0.0257880		-8.8	
Aroclor-1260 (4) [2C]	A	250.00	214	0.0706376	0.0604581		-14.4	
Decachlorobiphenyl	A	40.000	42.6	0.7333327	0.7805072		6.5	+/-20
Tetrachlorometaxylene	A	40.000	41.8	1.1336710	1.1851010		4.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.2	1.1358180	1.1130920		-2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.0966080	1.1002740		0.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221217.b/12172280ECD7.D
Data file 2: /221217.b/221217.b/12172280ECD7.D
Method: \\target\share\chem4\ecd7.i\221217.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 18-DEC-2022 13:15
Report Date: 12/20/2022 15:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

RT	ZB5 Col Shift	Response	RT	ZB35 Col Shift	Response	ZB5 on col	ZB35 on col	RPD	Compound/Flag
5.833	0.000	241302	5.710	0.000	128517	41.8	40.1	4.1	Tetrachloro-m-xylene
13.905	0.000	359038	14.134	0.000	220263	42.6	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Standard Cpnd	Column 1		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	407226	-9.0
Hexabromobiphenyl	798898	920012	15.2

Standard Cpnd	Column 2		
	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	233609	-6.2
Hexabromobiphenyl	362541	395768	9.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

ZB5 Col					ZB35 Col						
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount	
Aroclor-1016	1	7.291	0.000	40192	295.9	1	7.274	0.000	29845	249.9	
Aroclor-1016	2	7.678	0.000	118732	270.7	2	7.873	0.000	60483	234.8	
Aroclor-1016	3	7.813	0.000	57283	288.2	3	8.072	0.000	26684	241.2	
Aroclor-1016	4	8.424	0.000	37433	295.5	4	8.243	0.000	15300	263.0	
Total CollAve (4 peaks):				287.6		Total Col2Ave (4 peaks):				247.2	RPD = 15
Corrected Ave (3 peaks):				284.8		Corrected Ave (3 peaks):				242.0	RPD = 16
CalAmt %D:				15.0		CalAmt %D:				-1.1	
Aroclor-1260	1	11.058	0.000	85118	254.2	1	11.667	0.000	43604	208.7	
Aroclor-1260	2	11.375	0.000	90006	259.9	2	11.930	0.000	104453	199.3	
Aroclor-1260	3	11.749	0.000	238265	261.8	3	12.449	0.000	31894	228.5	
Aroclor-1260	4	12.154	0.000	114002	246.0	4	12.513	0.000	74773	214.0	
Aroclor-1260	5	12.259	0.000	52117	274.7	NS	---			----	
Total CollAve (5 peaks):				259.3		Total Col2Ave (4 peaks):				212.6	RPD = 20
Corrected Ave (4 peaks):				255.5		Corrected Ave (3 peaks):				207.3	RPD = 21
CalAmt %D:				3.7		CalAmt %D:				-15.0	

Total PCB Area Col1 (5.933 - 13.805) = 2576947 Col1 Total PCB = 0.5 ppm*

Total PCB Area Col2 (5.933 - 13.805) = 1094790 Col2 Total PCB = 0.7 ppm*

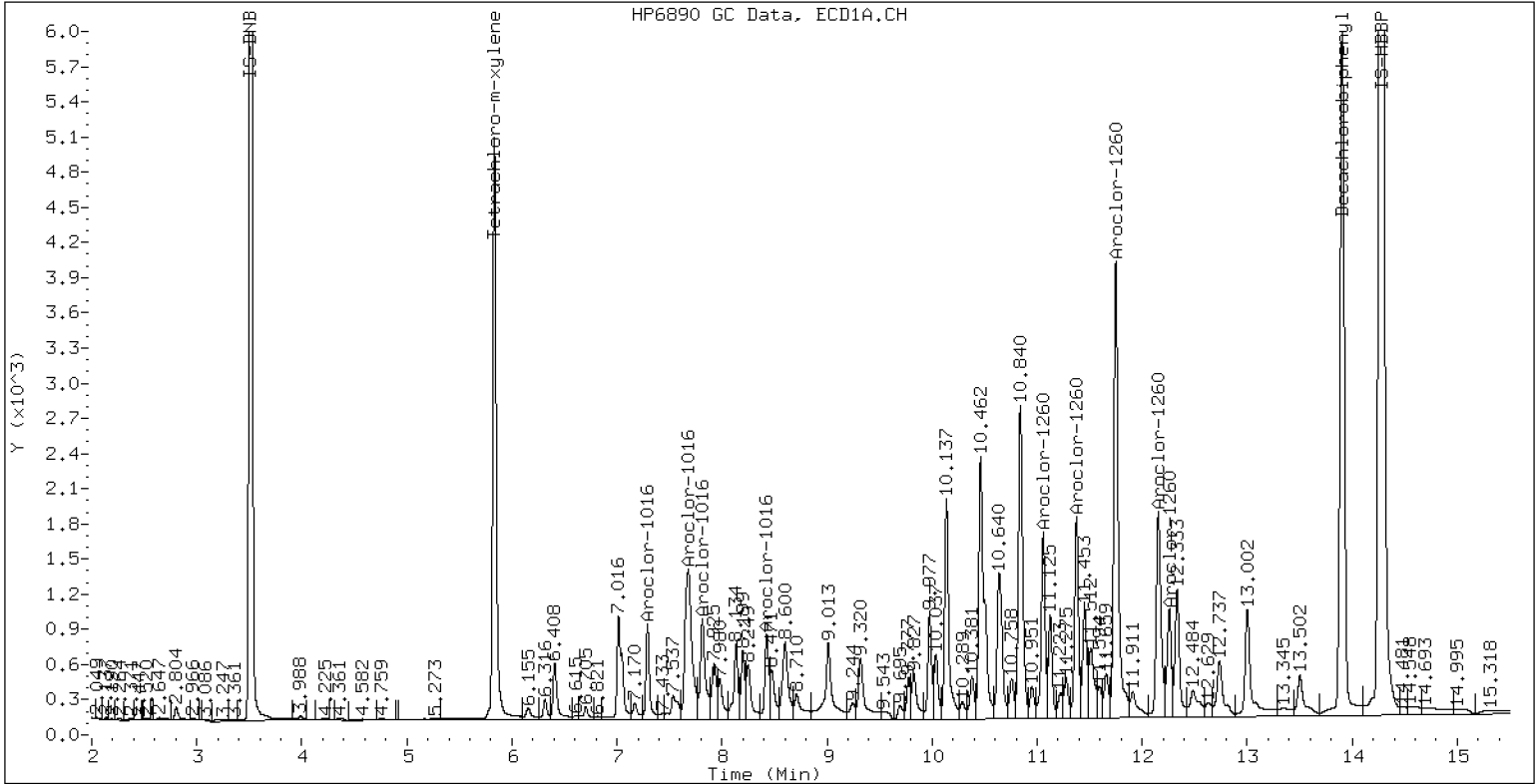
* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC

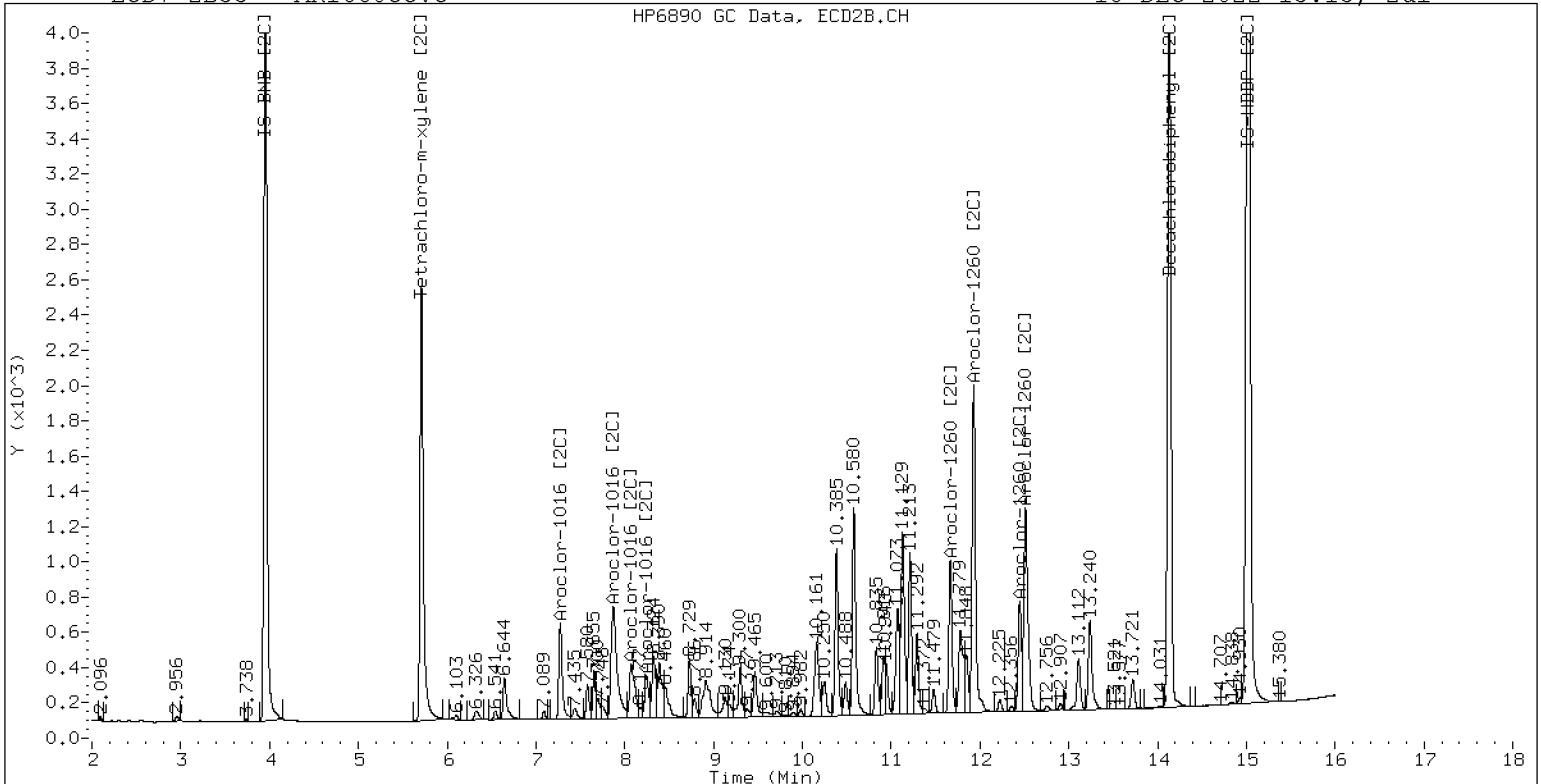
18-DEC-2022 13:15, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCVC

18-DEC-2022 13:15, 2ul



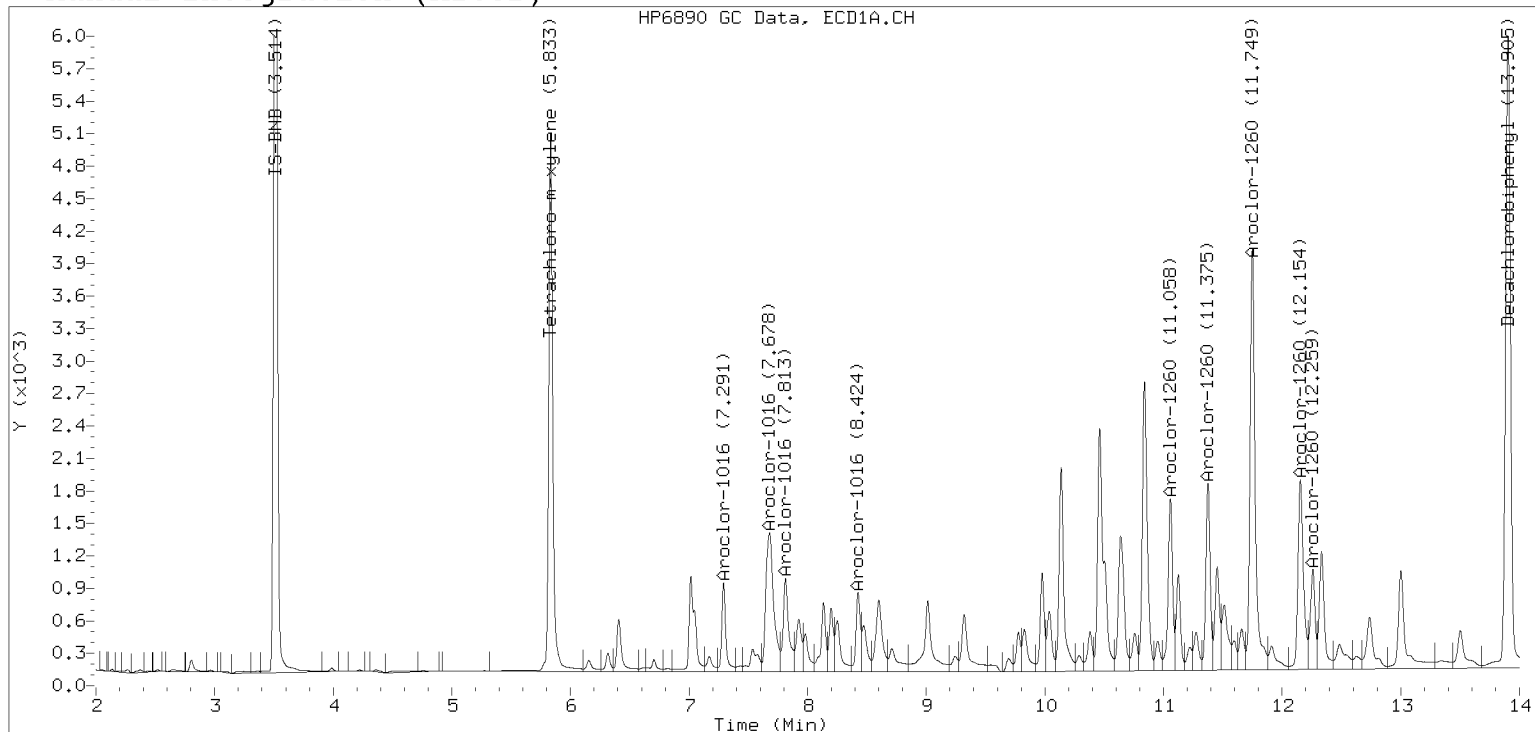
ZB-35 Manual Integration: NO

Manual Peak Adjustment, ZB-5

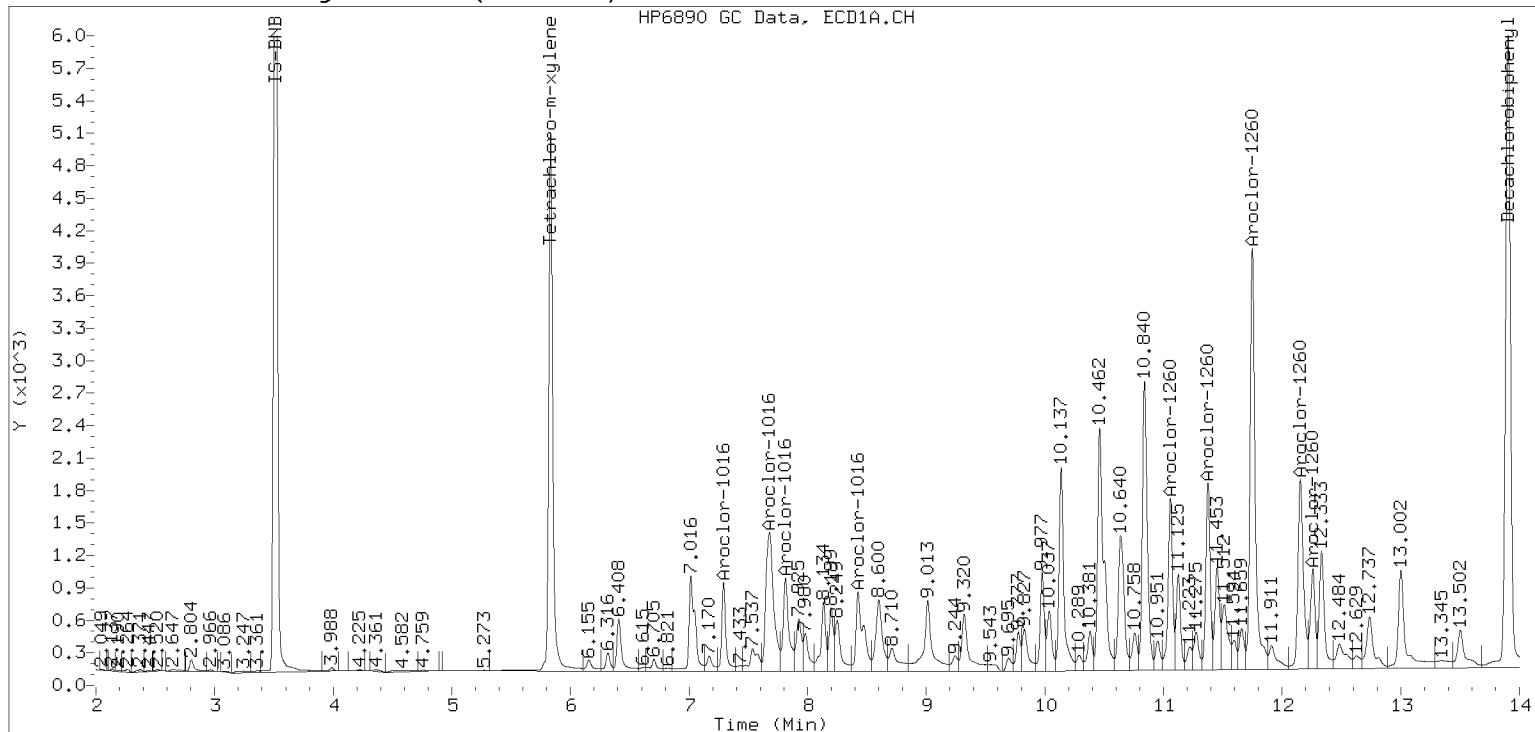
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Injection Date: 18-DEC-2022 13:15

Manual Integration (After)



Processed Integration (Before)





Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0048

Instrument: ECD7

Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SKL0048-CAL1	12032211ECD7.D	12032211ECD7.D	NA	12/03/22 18:19
Cal Standard	SKL0048-CAL2	12032212ECD7.D	12032212ECD7.D	NA	12/03/22 18:40
Cal Standard	SKL0048-CAL3	12032213ECD7.D	12032213ECD7.D	NA	12/03/22 19:01
Cal Standard	SKL0048-CAL4	12032214ECD7.D	12032214ECD7.D	NA	12/03/22 19:23
Cal Standard	SKL0048-CAL5	12032215ECD7.D	12032215ECD7.D	NA	12/03/22 19:44
Cal Standard	SKL0048-CAL6	12032216ECD7.D	12032216ECD7.D	NA	12/03/22 20:05
Cal Standard	SKL0048-CAL7	12032217ECD7.D	12032217ECD7.D	NA	12/03/22 20:26
Cal Standard	SKL0048-CAL8	12032218ECD7.D	12032218ECD7.D	NA	12/03/22 20:48
Cal Standard	SKL0048-CAL9	12032219ECD7.D	12032219ECD7.D	NA	12/03/22 21:09
Cal Standard	SKL0048-CALA	12032220ECD7.D	12032220ECD7.D	NA	12/03/22 21:30
Cal Standard	SKL0048-CALB	12032221ECD7.D	12032221ECD7.D	NA	12/03/22 21:52
Secondary Cal Check	SKL0048-SCV1	12032222ECD7.D	12032222ECD7.D	NA	12/03/22 22:13
Secondary Cal Check	SKL0048-SCV2	12032223ECD7.D	12032223ECD7.D	NA	12/03/22 22:34
Secondary Cal Check	SKL0048-SCV3	12032224ECD7.D	12032224ECD7.D	NA	12/03/22 22:55
Secondary Cal Check	SKL0048-SCV4	12032225ECD7.D	12032225ECD7.D	NA	12/03/22 23:17
Secondary Cal Check	SKL0048-SCV5	12032226ECD7.D	12032226ECD7.D	NA	12/03/22 23:38
Secondary Cal Check	SKL0048-SCV6	12032227ECD7.D	12032227ECD7.D	NA	12/03/22 23:59



ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7
Calibration ID: FL00010

Element Column ID:

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION



Dual Column
ANALYSIS BATCH (SEQUENCE) SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0280

Instrument: ECD7

Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0280-ICV1	12172203ECD7.D	12172203ECD7.D	NA	12/17/22 09:59
Initial Cal Check	SKL0280-ICV2	12172204ECD7.D	12172204ECD7.D	NA	12/17/22 10:20
Blank	BKL0190-BLK1	12172205ECD7.D	12172205ECD7.D	Solid	12/17/22 10:41
LCS	BKL0190-BS1	12172206ECD7.D	12172206ECD7.D	Solid	12/17/22 11:03
LCS Dup	BKL0190-BSD1	12172207ECD7.D	12172207ECD7.D	Solid	12/17/22 11:24
Reference	BKL0190-SRM1	12172208ECD7.D	12172208ECD7.D	Solid	12/17/22 11:45
LDW22-SS773	22L0104-01	12172211ECD7.D	12172211ECD7.D	Solid	12/17/22 12:49
LDW22-SS774	22L0104-02	12172212ECD7.D	12172212ECD7.D	Solid	12/17/22 13:10
Calibration Check	SKL0280-CCV1	12172215ECD7.D	12172215ECD7.D	NA	12/17/22 14:14
Calibration Check	SKL0280-CCV2	12172216ECD7.D	12172216ECD7.D	NA	12/17/22 14:35
Calibration Check	SKL0280-CCV3	12172227ECD7.D	12172227ECD7.D	NA	12/17/22 18:29
Calibration Check	SKL0280-CCV4	12172228ECD7.D	12172228ECD7.D	NA	12/17/22 18:50
Calibration Check	SKL0280-CCV5	12172237ECD7.D	12172237ECD7.D	NA	12/17/22 22:01
Calibration Check	SKL0280-CCV6	12172238ECD7.D	12172238ECD7.D	NA	12/17/22 22:22
Calibration Check	SKL0280-CCV7	12172252ECD7.D	12172252ECD7.D	NA	12/18/22 03:20
Calibration Check	SKL0280-CCV8	12172253ECD7.D	12172253ECD7.D	NA	12/18/22 03:41
Calibration Check	SKL0280-CCV9	12172264ECD7.D	12172264ECD7.D	NA	12/18/22 07:35
Calibration Check	SKL0280-CCVA	12172265ECD7.D	12172265ECD7.D	NA	12/18/22 07:56
Calibration Check	SKL0280-CCVB	12172279ECD7.D	12172279ECD7.D	NA	12/18/22 12:54
Calibration Check	SKL0280-CCVC	12172280ECD7.D	12172280ECD7.D	NA	12/18/22 13:15



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-ICV1	QC		1		K006957	K006953		
SKL0280-ICV2	QC		2		K006954	K006953		
BKL0190-BLK1	QC		3			K006953		
BKL0190-BS1	QC		4			K006953		
BKL0190-BSD1	QC		5			K006953		
BKL0190-SRM1	QC		6			K006953		
BKL0190-MS1	QC		7			K006953		
BKL0190-MSD1	QC		8			K006953		
22L0104-01	8082A PCB Solid 4	B 02	9			K006953	Anchor QEA, LLC	
22L0104-02	8082A PCB Solid 4	B 02	10			K006953	Anchor QEA, LLC	Finsh extract and hold
22L0136-01	8082A PCB Solid 4	A 01	11			K006953	Anchor QEA, LLC	
22L0136-02	8082A PCB Solid 4	A 01	12			K006953	Anchor QEA, LLC	
SKL0280-CCV1	QC		13		K006956	K006953		
SKL0280-CCV2	QC		14		K006954	K006953		
22L0136-03	8082A PCB Solid 4	A 01	15			K006953	Anchor QEA, LLC	
22L0136-04	8082A PCB Solid 4	A 01	16			K006953	Anchor QEA, LLC	
22L0136-05	8082A PCB Solid 4	A 01	17			K006953	Anchor QEA, LLC	
22L0136-06	8082A PCB Solid 4	A 01	18			K006953	Anchor QEA, LLC	
22L0136-07	8082A PCB Solid 4	A 01	19			K006953	Anchor QEA, LLC	
22L0136-08	8082A PCB Solid 4	A 01	20			K006953	Anchor QEA, LLC	
22L0136-09	8082A PCB Solid 4	A 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0136-10	8082A PCB Solid 4	A 01	22			K006953	Anchor QEA, LLC	
22L0136-11	8082A PCB Solid 4	A 01	23			K006953	Anchor QEA, LLC	
22L0136-12	8082A PCB Solid 4	A 01	24			K006953	Anchor QEA, LLC	
SKL0280-CCV3	QC		25		K006955	K006953		
SKL0280-CCV4	QC		26		K006954	K006953		
BKL0224-BLK1	QC		27			K006953		
BKL0224-BS1	QC		28			K006953		
BKL0224-BSD1	QC		29			K006953		
22L0174-01	8082A PCB Water 0.01	A 01	30			K006953	The Boeing Company [BDS Stormwaters]	
22L0174-02	8082A PCB Water 0.01	A 01	31			K006953	The Boeing Company [BDS Stormwaters]	
22L0192-01	8082A PCB Water 0.01	A 01	32			K006953	The Boeing Company [North Boeing Field]	
22L0207-01	8082A PCB Water 0.01	A 01	33			K006953	DH Environmental Inc	
SKL0280-CCV5	QC		34		K006957	K006953		
SKL0280-CCV6	QC		35		K006954	K006953		
BKL0158-BLK1	QC		36			K006953		
BKL0158-BS1	QC		37			K006953		
BKL0158-BSD1	QC		38			K006953		
BKL0158-SRM1	QC		39			K006953		
BKL0158-MS1	QC		40			K006953		
BKL0158-MSD1	QC		41			K006953		
SKL0280-CCV7	QC		42		K006956	K006953		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/20/2022 3:47:50PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-CCV8	QC		43		K006954	K006953		
SKL0280-CCV9	QC		44		K006955	K006953		
SKL0280-CCVA	QC		45		K006954	K006953		
BKK0730-BLK1	QC		46			K006953		
BKK0730-BS1	QC		47			K006953		
BKK0730-BSD1	QC		48			K006953		
BKK0730-MS1	QC		49			K006953		
BKK0730-MSD1	QC		50			K006953		
22K0471-01	8082A PCB Water 0.01	B 01	51			K006953	Aspect Consulting, LLC.	
22K0471-03	8082A PCB Water 0.01	AB 01	52			K006953	Aspect Consulting, LLC.	
22K0471-05	8082A PCB Water 0.01	B 01	53			K006953	Aspect Consulting, LLC.	
22K0471-07	8082A PCB Water 0.01	B 01	54			K006953	Aspect Consulting, LLC.	
22K0471-09	8082A PCB Water 0.01	B 01	55			K006953	Aspect Consulting, LLC.	
22K0471-11	8082A PCB Water 0.01	B 01	56			K006953	Aspect Consulting, LLC.	
22K0471-13	8082A PCB Water 0.01	B 01	57			K006953	Aspect Consulting, LLC.	
22K0471-15	8082A PCB Water 0.01	B 01	58			K006953	Aspect Consulting, LLC.	
SKL0280-CCVB	QC		59		K006957	K006953		
SKL0280-CCVC	QC		60		K006954	K006953		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	17-DEC-2022	09:16	12172201.D	1	DDTS	
2	17-DEC-2022	09:38	12172202.D	1	BD	
3	17-DEC-2022	09:59	12172203.D	1	AR1254ICV1	
4	17-DEC-2022	10:20	12172204.D	1	AR1660ICV2	
5	17-DEC-2022	10:41	12172205.D	1	BKL0190-BLK1	
6	17-DEC-2022	11:03	12172206.D	1	BKL0190-BS1	
7	17-DEC-2022	11:24	12172207.D	1	BKL0190-BSD1	
8	17-DEC-2022	11:45	12172208.D	1	BKL0190-SRM1	
9	17-DEC-2022	12:07	12172209.D	1	BKL0190-MS1	
10	17-DEC-2022	12:28	12172210.D	1	BKL0190-MSD1	
11	17-DEC-2022	12:49	12172211.D	1	22L0104-01	
12	17-DEC-2022	13:10	12172212.D	1	22L0104-02	
13	17-DEC-2022	13:31	12172213.D	1	22L0136-01	
14	17-DEC-2022	13:53	12172214.D	1	22L0136-02	
15	17-DEC-2022	14:14	12172215.D	1	AR1248CCV1	
16	17-DEC-2022	14:35	12172216.D	1	AR1660CCV2	
17	17-DEC-2022	14:56	12172217.D	1	22L0136-03	
18	17-DEC-2022	15:18	12172218.D	1	22L0136-04	
19	17-DEC-2022	15:39	12172219.D	1	22L0136-05	
20	17-DEC-2022	16:00	12172220.D	1	22L0136-06	
21	17-DEC-2022	16:21	12172221.D	1	22L0136-07	
22	17-DEC-2022	16:42	12172222.D	1	22L0136-08	
23	17-DEC-2022	17:04	12172223.D	1	22L0136-09	
24	17-DEC-2022	17:25	12172224.D	1	22L0136-10	
25	17-DEC-2022	17:46	12172225.D	1	22L0136-11	
26	17-DEC-2022	18:07	12172226.D	1	22L0136-12	
27	17-DEC-2022	18:29	12172227.D	1	AR1242CCV3	
28	17-DEC-2022	18:50	12172228.D	1	AR1660CCV4	
29	17-DEC-2022	19:11	12172229.D	1	BKL0224-BLK1	
30	17-DEC-2022	19:32	12172230.D	1	BKL0224-BS1	
31	17-DEC-2022	19:54	12172231.D	1	BKL0224-BSD1	
32	17-DEC-2022	20:15	12172232.D	1	22L0174-01	
33	17-DEC-2022	20:36	12172233.D	1	22L0174-02	
34	17-DEC-2022	20:57	12172234.D	1	22L0192-01	
35	17-DEC-2022	21:19	12172235.D	1	22L0207-01	
36	17-DEC-2022	21:40	12172236.D	1	22L0268-01	
37	17-DEC-2022	22:01	12172237.D	1	AR1254CCV5	
38	17-DEC-2022	22:22	12172238.D	1	AR1660CCV6	
39	17-DEC-2022	22:44	12172239.D	1	BKL0156-BLK1	
40	17-DEC-2022	23:05	12172240.D	1	BKL0156-BS1	
41	17-DEC-2022	23:26	12172241.D	1	BKL0156-BSD1	
42	17-DEC-2022	23:47	12172242.D	1	BKL0156-SRM1	
43	18-DEC-2022	00:09	12172243.D	1	BKL0156-MS1	
44	18-DEC-2022	00:30	12172244.D	1	BKL0156-MSD1	
45	18-DEC-2022	00:51	12172245.D	1	22L0105-17	
46	18-DEC-2022	01:12	12172246.D	1	22L0105-18	
47	18-DEC-2022	01:34	12172247.D	1	22L0105-19	
48	18-DEC-2022	01:55	12172248.D	1	22L0105-20	
49	18-DEC-2022	02:16	12172249.D	1	22L0105-21	
50	18-DEC-2022	02:37	12172250.D	1	22L0105-22	

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	18-DEC-2022	02:58	12172251.D	1	22L0105-23	
52	18-DEC-2022	03:20	12172252.D	1	AR1248CCV7	
53	18-DEC-2022	03:41	12172253.D	1	AR1660CCV8	
54	18-DEC-2022	04:02	12172254.D	1	22L0105-24	
55	18-DEC-2022	04:24	12172255.D	1	22L0105-25	
56	18-DEC-2022	04:45	12172256.D	1	22L0105-26	
57	18-DEC-2022	05:06	12172257.D	1	22L0105-27	
58	18-DEC-2022	05:27	12172258.D	1	22L0105-28	
59	18-DEC-2022	05:49	12172259.D	1	22L0105-29	
60	18-DEC-2022	06:10	12172260.D	1	22L0105-30	
61	18-DEC-2022	06:31	12172261.D	1	22L0105-31	
62	18-DEC-2022	06:52	12172262.D	1	22L0105-32	
63	18-DEC-2022	07:14	12172263.D	1	22L0105-33	
64	18-DEC-2022	07:35	12172264.D	1	AR1242CCV9	
65	18-DEC-2022	07:56	12172265.D	1	AR1660CCVA	
66	18-DEC-2022	08:17	12172266.D	1	BKK0730-BLK1	
67	18-DEC-2022	08:39	12172267.D	1	BKK0730-BS1	
68	18-DEC-2022	09:00	12172268.D	1	BKK0730-BSD1	
69	18-DEC-2022	09:21	12172269.D	1	BKK0730-MS1	
70	18-DEC-2022	09:43	12172270.D	1	BKK0730-MSD1	
71	18-DEC-2022	10:04	12172271.D	1	22K0471-01	
72	18-DEC-2022	10:25	12172272.D	1	22K0471-03	
73	18-DEC-2022	10:46	12172273.D	1	22K0471-05	
74	18-DEC-2022	11:08	12172274.D	1	22K0471-07	
75	18-DEC-2022	11:29	12172275.D	1	22K0471-09	
76	18-DEC-2022	11:50	12172276.D	1	22K0471-11	
77	18-DEC-2022	12:11	12172277.D	1	22K0471-13	
78	18-DEC-2022	12:33	12172278.D	1	22K0471-15	
79	18-DEC-2022	12:54	12172279.D	1	AR1254CCVB	
80	18-DEC-2022	13:15	12172280.D	1	AR1660CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 17-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0916	12172201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0938	12172202ECD7.D	BD		1	NO MANUAL INTEGRATION
0959	12172203ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1020	12172204ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1041	12172205ECD7.D	BKL0190-BLK1		1	NO MANUAL INTEGRATION
1103	12172206ECD7.D	BKL0190-BS1		1	NO MANUAL INTEGRATION
1124	12172207ECD7.D	BKL0190-BSD1		1	NO MANUAL INTEGRATION
1145	12172208ECD7.D	BKL0190-SRM1		1	NO MANUAL INTEGRATION
1207	12172209ECD7.D	BKL0190-MS1		1	NO MANUAL INTEGRATION
1228	12172210ECD7.D	BKL0190-MSD1		1	NO MANUAL INTEGRATION
1249	12172211ECD7.D	22L0104-01		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
1310	12172212ECD7.D	22L0104-02		1	NO MANUAL INTEGRATION
1331	12172213ECD7.D	22L0136-01		1	NO MANUAL INTEGRATION
1353	12172214ECD7.D	22L0136-02		1	NO MANUAL INTEGRATION
1414	12172215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1435	12172216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1456	12172217ECD7.D	22L0136-03		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1518	12172218ECD7.D	22L0136-04		1	IS-BNB, Tetrachloro-m-xylene,
1539	12172219ECD7.D	22L0136-05		1	NO MANUAL INTEGRATION
1600	12172220ECD7.D	22L0136-06		1	Aroclor-1254,
1621	12172221ECD7.D	22L0136-07		1	NO MANUAL INTEGRATION
1642	12172222ECD7.D	22L0136-08		1	NO MANUAL INTEGRATION
1704	12172223ECD7.D	22L0136-09		1	Aroclor-1248, Tetrachloro-m-xylene,
1725	12172224ECD7.D	22L0136-10		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-BNB, Tetrachloro-m-xylene,
1746	12172225ECD7.D	22L0136-11		1	NO MANUAL INTEGRATION
1807	12172226ECD7.D	22L0136-12		1	NO MANUAL INTEGRATION
1829	12172227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1850	12172228ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1911	12172229ECD7.D	BKL0224-BLK1		1	NO MANUAL INTEGRATION
1932	12172230ECD7.D	BKL0224-BS1		1	NO MANUAL INTEGRATION
1954	12172231ECD7.D	BKL0224-BSD1		1	NO MANUAL INTEGRATION
2015	12172232ECD7.D	22L0174-01		1	NO MANUAL INTEGRATION
2036	12172233ECD7.D	22L0174-02		1	NO MANUAL INTEGRATION
2057	12172234ECD7.D	22L0192-01		1	NO MANUAL INTEGRATION
2119	12172235ECD7.D	22L0207-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2140	12172236ECD7.D	22L0268-01		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Aroclor-1260, Aroclor-1262, Aroclor-1268, IS-BNB, IS-HBBP, Tetrachloro-m-xylene, Decachlorobiphenyl,
2201	12172237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2222	12172238ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2244	12172239ECD7.D	BKL0156-BLK1		1	NO MANUAL INTEGRATION
2305	12172240ECD7.D	BKL0156-BS1		1	NO MANUAL INTEGRATION
2326	12172241ECD7.D	BKL0156-BSD1		1	NO MANUAL INTEGRATION
2347	12172242ECD7.D	BKL0156-SRM1		1	NO MANUAL INTEGRATION
0009	12172243ECD7.D	BKL0156-MS1		1	NO MANUAL INTEGRATION
0030	12172244ECD7.D	BKL0156-MSD1		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0051	12172245ECD7.D	22L0105-17		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0112	12172246ECD7.D	22L0105-18		1	NO MANUAL INTEGRATION
0134	12172247ECD7.D	22L0105-19		1	NO MANUAL INTEGRATION
0155	12172248ECD7.D	22L0105-20		1	NO MANUAL INTEGRATION
0216	12172249ECD7.D	22L0105-21		1	NO MANUAL INTEGRATION
0237	12172250ECD7.D	22L0105-22		1	NO MANUAL INTEGRATION
0258	12172251ECD7.D	22L0105-23		1	Aroclor-1016, Aroclor-1221, Aroclor-1232, Aroclor-1242, Aroclor-1248, Aroclor-1254, Tetrachloro-m-xylene,
0320	12172252ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0341	12172253ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0402	12172254ECD7.D	22L0105-24		1	NO MANUAL INTEGRATION
0424	12172255ECD7.D	22L0105-25		1	NO MANUAL INTEGRATION
0445	12172256ECD7.D	22L0105-26		1	NO MANUAL INTEGRATION
0506	12172257ECD7.D	22L0105-27		1	NO MANUAL INTEGRATION
0527	12172258ECD7.D	22L0105-28		1	NO MANUAL INTEGRATION
0549	12172259ECD7.D	22L0105-29		1	NO MANUAL INTEGRATION
0610	12172260ECD7.D	22L0105-30		1	NO MANUAL INTEGRATION
0631	12172261ECD7.D	22L0105-31		1	NO MANUAL INTEGRATION
0652	12172262ECD7.D	22L0105-32		1	NO MANUAL INTEGRATION
0714	12172263ECD7.D	22L0105-33		1	NO MANUAL INTEGRATION
0735	12172264ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0756	12172265ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
0817	12172266ECD7.D	BKK0730-BLK1		1	NO MANUAL INTEGRATION
0839	12172267ECD7.D	BKK0730-BS1		1	NO MANUAL INTEGRATION
0900	12172268ECD7.D	BKK0730-BSD1		1	NO MANUAL INTEGRATION
0921	12172269ECD7.D	BKK0730-MS1		1	NO MANUAL INTEGRATION
0943	12172270ECD7.D	BKK0730-MSD1		1	NO MANUAL INTEGRATION
1004	12172271ECD7.D	22K0471-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1025	12172272ECD7.D	22K0471-03		1	NO MANUAL INTEGRATION
1046	12172273ECD7.D	22K0471-05		1	NO MANUAL INTEGRATION
1108	12172274ECD7.D	22K0471-07		1	NO MANUAL INTEGRATION
1129	12172275ECD7.D	22K0471-09		1	NO MANUAL INTEGRATION
1150	12172276ECD7.D	22K0471-11		1	NO MANUAL INTEGRATION
1211	12172277ECD7.D	22K0471-13		1	NO MANUAL INTEGRATION
1233	12172278ECD7.D	22K0471-15		1	NO MANUAL INTEGRATION
1254	12172279ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1315	12172280ECD7.D	AR1660CCVC		1	Aroclor-1016,
0916	12172201ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0938	12172202ECD7.D	BD		1	NO MANUAL INTEGRATION
0959	12172203ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1020	12172204ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1041	12172205ECD7.D	BKL0190-BLK1		1	NO MANUAL INTEGRATION
1103	12172206ECD7.D	BKL0190-BS1		1	NO MANUAL INTEGRATION
1124	12172207ECD7.D	BKL0190-BSD1		1	NO MANUAL INTEGRATION
1145	12172208ECD7.D	BKL0190-SRM1		1	NO MANUAL INTEGRATION
1207	12172209ECD7.D	BKL0190-MS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1228	12172210ECD7.D	BKL0190-MSD1		1	NO MANUAL INTEGRATION
1249	12172211ECD7.D	22L0104-01		1	Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1260 [2C], Tetrachloro-m-xylene [2C],
1310	12172212ECD7.D	22L0104-02		1	NO MANUAL INTEGRATION
1331	12172213ECD7.D	22L0136-01		1	NO MANUAL INTEGRATION
1353	12172214ECD7.D	22L0136-02		1	NO MANUAL INTEGRATION
1414	12172215ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1435	12172216ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1456	12172217ECD7.D	22L0136-03		1	NO MANUAL INTEGRATION
1518	12172218ECD7.D	22L0136-04		1	Aroclor-1254 [2C], IS-BNB [2C], Tetrachloro-m-xylene [2C],
1539	12172219ECD7.D	22L0136-05		1	NO MANUAL INTEGRATION
1600	12172220ECD7.D	22L0136-06		1	Aroclor-1260 [2C],
1621	12172221ECD7.D	22L0136-07		1	NO MANUAL INTEGRATION
1642	12172222ECD7.D	22L0136-08		1	NO MANUAL INTEGRATION
1704	12172223ECD7.D	22L0136-09		1	NO MANUAL INTEGRATION
1725	12172224ECD7.D	22L0136-10		1	NO MANUAL INTEGRATION
1746	12172225ECD7.D	22L0136-11		1	NO MANUAL INTEGRATION
1807	12172226ECD7.D	22L0136-12		1	NO MANUAL INTEGRATION
1829	12172227ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1850	12172228ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1911	12172229ECD7.D	BKL0224-BLK1		1	NO MANUAL INTEGRATION
1932	12172230ECD7.D	BKL0224-BS1		1	NO MANUAL INTEGRATION
1954	12172231ECD7.D	BKL0224-BSD1		1	NO MANUAL INTEGRATION
2015	12172232ECD7.D	22L0174-01		1	NO MANUAL INTEGRATION
2036	12172233ECD7.D	22L0174-02		1	NO MANUAL INTEGRATION
2057	12172234ECD7.D	22L0192-01		1	NO MANUAL INTEGRATION
2119	12172235ECD7.D	22L0207-01		1	NO MANUAL INTEGRATION
2140	12172236ECD7.D	22L0268-01		1	NO MANUAL INTEGRATION
2201	12172237ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2222	12172238ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2244	12172239ECD7.D	BKL0156-BLK1		1	NO MANUAL INTEGRATION
2305	12172240ECD7.D	BKL0156-BS1		1	NO MANUAL INTEGRATION
2326	12172241ECD7.D	BKL0156-BSD1		1	NO MANUAL INTEGRATION
2347	12172242ECD7.D	BKL0156-SRM1		1	NO MANUAL INTEGRATION
0009	12172243ECD7.D	BKL0156-MS1		1	NO MANUAL INTEGRATION
0030	12172244ECD7.D	BKL0156-MSD1		1	Aroclor-1016 [2C], Aroclor-1221 [2C], Aroclor-1232 [2C], Aroclor-1242 [2C], Aroclor-1248 [2C], Aroclor-1254 [2C], Aroclor-1262 [2C], Tetrachloro-m-xylene [2C],
0051	12172245ECD7.D	22L0105-17		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0112	12172246ECD7.D	22L0105-18		1	NO MANUAL INTEGRATION
0134	12172247ECD7.D	22L0105-19		1	NO MANUAL INTEGRATION
0155	12172248ECD7.D	22L0105-20		1	NO MANUAL INTEGRATION
0216	12172249ECD7.D	22L0105-21		1	NO MANUAL INTEGRATION
0237	12172250ECD7.D	22L0105-22		1	Aroclor-1260 [2C],
0258	12172251ECD7.D	22L0105-23		1	NO MANUAL INTEGRATION
0320	12172252ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0341	12172253ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0402	12172254ECD7.D	22L0105-24		1	NO MANUAL INTEGRATION
0424	12172255ECD7.D	22L0105-25		1	NO MANUAL INTEGRATION
0445	12172256ECD7.D	22L0105-26		1	NO MANUAL INTEGRATION
0506	12172257ECD7.D	22L0105-27		1	NO MANUAL INTEGRATION
0527	12172258ECD7.D	22L0105-28		1	NO MANUAL INTEGRATION
0549	12172259ECD7.D	22L0105-29		1	NO MANUAL INTEGRATION
0610	12172260ECD7.D	22L0105-30		1	NO MANUAL INTEGRATION
0631	12172261ECD7.D	22L0105-31		1	NO MANUAL INTEGRATION
0652	12172262ECD7.D	22L0105-32		1	NO MANUAL INTEGRATION
0714	12172263ECD7.D	22L0105-33		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221217.b\221217.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0735	12172264ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
0756	12172265ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
0817	12172266ECD7.D	BKK0730-BLK1		1	NO MANUAL INTEGRATION
0839	12172267ECD7.D	BKK0730-BS1		1	NO MANUAL INTEGRATION
0900	12172268ECD7.D	BKK0730-BSD1		1	NO MANUAL INTEGRATION
0921	12172269ECD7.D	BKK0730-MS1		1	NO MANUAL INTEGRATION
0943	12172270ECD7.D	BKK0730-MSD1		1	NO MANUAL INTEGRATION
1004	12172271ECD7.D	22K0471-01		1	NO MANUAL INTEGRATION
1025	12172272ECD7.D	22K0471-03		1	NO MANUAL INTEGRATION
1046	12172273ECD7.D	22K0471-05		1	NO MANUAL INTEGRATION
1108	12172274ECD7.D	22K0471-07		1	NO MANUAL INTEGRATION
1129	12172275ECD7.D	22K0471-09		1	NO MANUAL INTEGRATION
1150	12172276ECD7.D	22K0471-11		1	NO MANUAL INTEGRATION
1211	12172277ECD7.D	22K0471-13		1	NO MANUAL INTEGRATION
1233	12172278ECD7.D	22K0471-15		1	NO MANUAL INTEGRATION
1254	12172279ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1315	12172280ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 20-Dec-2022 15:37

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12172275ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37
12172276ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37
12172277ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37
12172278ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37
12172279ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37
12172280ECD7.D	Data Locked	richardl, 20-Dec-2022 15:37



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-ICV1	QC		1		K006957	K006953		
SKL0280-ICV2	QC		2		K006954	K006953		
BKL0190-BLK1	QC		3			K006953		
BKL0190-BS1	QC		4			K006953		
BKL0190-BSD1	QC		5			K006953		
BKL0190-SRM1	QC		6			K006953		
BKL0190-MS1	QC		7			K006953		
BKL0190-MSD1	QC		8			K006953		
22L0104-01	8082A PCB Solid 4	B 02	9			K006953	Anchor QEA, LLC	
22L0104-02	8082A PCB Solid 4	B 02	10			K006953	Anchor QEA, LLC	Finsh extract and hold
22L0136-01	8082A PCB Solid 4	A 01	11			K006953	Anchor QEA, LLC	
22L0136-02	8082A PCB Solid 4	A 01	12			K006953	Anchor QEA, LLC	
SKL0280-CCV1	QC		13		K006956	K006953		
SKL0280-CCV2	QC		14		K006954	K006953		
22L0136-03	8082A PCB Solid 4	A 01	15			K006953	Anchor QEA, LLC	
22L0136-04	8082A PCB Solid 4	A 01	16			K006953	Anchor QEA, LLC	
22L0136-05	8082A PCB Solid 4	A 01	17			K006953	Anchor QEA, LLC	
22L0136-06	8082A PCB Solid 4	A 01	18			K006953	Anchor QEA, LLC	
22L0136-07	8082A PCB Solid 4	A 01	19			K006953	Anchor QEA, LLC	
22L0136-08	8082A PCB Solid 4	A 01	20			K006953	Anchor QEA, LLC	
22L0136-09	8082A PCB Solid 4	A 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0136-10	8082A PCB Solid 4	A 01	22			K006953	Anchor QEA, LLC	
22L0136-12	8082A PCB Solid 4	A 01	23			K006953	Anchor QEA, LLC	
SKL0280-CCV3	QC		24		K006955	K006953		
SKL0280-CCV4	QC		25		K006954	K006953		
BKL0224-BLK1	QC		26			K006953		
BKL0224-BS1	QC		27			K006953		
BKL0224-BSD1	QC		28			K006953		
22L0174-01	8082A PCB Water 0.01	A 01	29			K006953	The Boeing Company [BDS Stormwaters]	
22L0174-02	8082A PCB Water 0.01	A 01	30			K006953	The Boeing Company [BDS Stormwaters]	
22L0192-01	8082A PCB Water 0.01	A 01	31			K006953	The Boeing Company [North Boeing Field]	
22L0207-01	8082A PCB Water 0.01	A 01	32			K006953	DH Environmental Inc	
SKL0280-CCV5	QC		33		K006957	K006953		
SKL0280-CCV6	QC		34		K006954	K006953		
BKL0158-BLK1	QC		35			K006953		
BKL0158-BS1	QC		36			K006953		
BKL0158-BSD1	QC		37			K006953		
BKL0158-SRM1	QC		38			K006953		
BKL0158-MS1	QC		39			K006953		
22L0105-20	8082A PCB Solid 4	A 01	40			K006953	Anchor QEA, LLC	
22L0105-21	8082A PCB Solid 4	A 01	41			K006953	Anchor QEA, LLC	
22L0105-22	8082A PCB Solid 4	A 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SKL0280

Instrument: ECD7
Calibration ID: FL00010

Printed: 12/30/2022 9:33:40AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SKL0280-CCV7	QC		43		K006956	K006953		
SKL0280-CCV8	QC		44		K006954	K006953		
SKL0280-CCV9	QC		45		K006955	K006953		
SKL0280-CCVA	QC		46		K006954	K006953		
BKK0730-BLK1	QC		47			K006953		
BKK0730-BS1	QC		48			K006953		
BKK0730-BSD1	QC		49			K006953		
BKK0730-MS1	QC		50			K006953		
BKK0730-MSD1	QC		51			K006953		
22K0471-01	8082A PCB Water 0.01	B 01	52			K006953	Aspect Consulting, LLC.	
22K0471-03	8082A PCB Water 0.01	AB 01	53			K006953	Aspect Consulting, LLC.	
22K0471-05	8082A PCB Water 0.01	B 01	54			K006953	Aspect Consulting, LLC.	
22K0471-07	8082A PCB Water 0.01	B 01	55			K006953	Aspect Consulting, LLC.	
22K0471-09	8082A PCB Water 0.01	B 01	56			K006953	Aspect Consulting, LLC.	
22K0471-11	8082A PCB Water 0.01	B 01	57			K006953	Aspect Consulting, LLC.	
22K0471-13	8082A PCB Water 0.01	B 01	58			K006953	Aspect Consulting, LLC.	
22K0471-15	8082A PCB Water 0.01	B 01	59			K006953	Aspect Consulting, LLC.	
SKL0280-CCVB	QC		60		K006957	K006953		
SKL0280-CCVC	QC		61		K006954	K006953		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

Security Status Report

Date: 30-Dec-2022 09:31

12172201ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172202ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172203ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172204ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172205ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172206ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172207ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172208ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172209ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172210ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172274ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172275ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172276ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
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12172278ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172279ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31
12172280ECD7.D	Data Locked	richardl, 30-Dec-2022 09:31



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	<u>Analytical Resources, LLC</u>	SDG/WO:	<u>22L0104</u>
Client:	<u>Anchor OEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0048</u>	Instrument:	<u>ECD7</u>
Calibration:	<u>FL00010</u>	Calibration Date:	<u>12/03/2022</u>

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0048-SCV1 (Water)				Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13	
Decachlorobiphenyl	40.000	99.5	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.4	80 - 120	14.137	14.13533	0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV2 (Water)				Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34	
Decachlorobiphenyl	40.000	97.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.9	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV3 (Water)				Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55	
Decachlorobiphenyl	40.000	98.3	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	86.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	87.7	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV4 (Water)				Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17	
Decachlorobiphenyl	40.000	98.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	90.0	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV5 (Water)				Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38	
Decachlorobiphenyl	40.000	100	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	90.2	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	96.1	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV6 (Water)				Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59	
Decachlorobiphenyl	40.000	140	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	86.2	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	137	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	85.6	80 - 120	5.711	5.712333	-0.0013	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor OEA, LLC
Sequence: SKL0280
Calibration: FL00010

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0280-ICV1 (Solid) Lab File ID: 12172203ECD7.D Analyzed: 12/17/22 09:59								
Decachlorobiphenyl	40.000	105	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	94.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	97.0	80 - 120	14.135	14.13533	-0.0003	N/A	
Tetrachlorometaxylene [2C]	40.000	93.0	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-ICV2 (Solid) Lab File ID: 12172204ECD7.D Analyzed: 12/17/22 10:20								
Decachlorobiphenyl	40.000	107	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.837	5.835333	0.0017	N/A	
Decachlorobiphenyl [2C]	40.000	95.5	80 - 120	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	80 - 120	5.714	5.712333	0.0017	N/A	
BKL0190-BLK1 (Solid) Lab File ID: 12172205ECD7.D Analyzed: 12/17/22 10:41								
Decachlorobiphenyl	8.0000	113	40 - 126	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	8.0000	94.2	44 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	8.0000	88.1	44 - 120	5.712	5.712333	-0.0003	N/A	
BKL0190-BS1 (Solid) Lab File ID: 12172206ECD7.D Analyzed: 12/17/22 11:03								
Decachlorobiphenyl	8.0000	106	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	95.4	44 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	8.0000	88.5	44 - 120	5.712	5.712333	-0.0003	N/A	
BKL0190-BSD1 (Solid) Lab File ID: 12172207ECD7.D Analyzed: 12/17/22 11:24								
Decachlorobiphenyl	8.0000	106	40 - 126	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	8.0000	90.0	44 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	8.0000	102	40 - 126	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	8.0000	83.3	44 - 120	5.709	5.712333	-0.0033	N/A	
BKL0190-SRM1 (Solid) Lab File ID: 12172208ECD7.D Analyzed: 12/17/22 11:45								
Decachlorobiphenyl	40.000	101	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	40.000	80.7	44 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	87.8	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	81.1	44 - 120	5.709	5.712333	-0.0033	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0280
Calibration: FL00010

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0104-01 (Solid) Lab File ID: 12172211ECD7.D Analyzed: 12/17/22 12:49								
Decachlorobiphenyl	7.9980	110	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9980	87.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9980	91.2	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	7.9980	82.0	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0104-02 (Solid) Lab File ID: 12172212ECD7.D Analyzed: 12/17/22 13:10								
Decachlorobiphenyl	7.9947	108	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	7.9947	88.0	44 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	7.9947	102	40 - 126	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	7.9947	84.9	44 - 120	5.71	5.712333	-0.0023	N/A	
SKL0280-CCV1 (Solid) Lab File ID: 12172215ECD7.D Analyzed: 12/17/22 14:14								
Decachlorobiphenyl	40.000	107	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	94.8	80 - 120	14.134	14.13533	-0.0013	N/A	
Tetrachlorometaxylene [2C]	40.000	91.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV2 (Solid) Lab File ID: 12172216ECD7.D Analyzed: 12/17/22 14:35								
Decachlorobiphenyl	40.000	108	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	98.3	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCV3 (Solid) Lab File ID: 12172227ECD7.D Analyzed: 12/17/22 18:29								
Decachlorobiphenyl	40.000	107	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	95.0	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	93.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV4 (Solid) Lab File ID: 12172228ECD7.D Analyzed: 12/17/22 18:50								
Decachlorobiphenyl	40.000	112	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	98.0	80 - 120	5.711	5.712333	-0.0013	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0280
Calibration: FL00010

SDG/WO: 22L0104
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0280-CCV5 (Solid)		Lab File ID: 12172237ECD7.D			Analyzed: 12/17/22 22:01			
Decachlorobiphenyl	40.000	102	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	91.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.3	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV6 (Solid)		Lab File ID: 12172238ECD7.D			Analyzed: 12/17/22 22:22			
Decachlorobiphenyl	40.000	106	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	102	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	93.5	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	98.5	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCV7 (Solid)		Lab File ID: 12172252ECD7.D			Analyzed: 12/18/22 03:20			
Decachlorobiphenyl	40.000	108	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	99.5	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	92.8	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCV8 (Solid)		Lab File ID: 12172253ECD7.D			Analyzed: 12/18/22 03:41			
Decachlorobiphenyl	40.000	113	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	106	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCV9 (Solid)		Lab File ID: 12172264ECD7.D			Analyzed: 12/18/22 07:35			
Decachlorobiphenyl	40.000	111	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	94.0	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	92.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0280-CCVA (Solid)		Lab File ID: 12172265ECD7.D			Analyzed: 12/18/22 07:56			
Decachlorobiphenyl	40.000	116	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.132	14.13533	-0.0033	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.712	5.712333	-0.0003	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG/WO: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0280

Instrument: ECD7

Calibration: FL00010

Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0280-CCVB (Solid)		Lab File ID: 12172279ECD7.D			Analyzed: 12/18/22 12:54			
Decachlorobiphenyl	40.000	102	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.834	5.835333	-0.0013	N/A	
Decachlorobiphenyl [2C]	40.000	98.5	80 - 120	14.131	14.13533	-0.0043	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.711	5.712333	-0.0013	N/A	
SKL0280-CCVC (Solid)		Lab File ID: 12172280ECD7.D			Analyzed: 12/18/22 13:15			
Decachlorobiphenyl	40.000	107	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	105	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	98.0	80 - 120	14.133	14.13533	-0.0023	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.71	5.712333	-0.0023	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0048

Instrument: ECD7

Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SKL0048-SCV1)		(Water)	Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13			
1-Bromo-2-Nitrobenzene	483506	3.518	457669	3.516	106	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	892033	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270882	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432562	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV2)		(Water)	Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34			
1-Bromo-2-Nitrobenzene	480791	3.515	457669	3.516	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	896515	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270117	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	422729	15.023	387892	15.021	109	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV3)		(Water)	Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55			
1-Bromo-2-Nitrobenzene	484977	3.515	457669	3.516	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	915518	14.281	837264	14.278	109	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	272055	3.955	254712	3.955	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	426674	15.023	387892	15.021	110	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV4)		(Water)	Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17			
1-Bromo-2-Nitrobenzene	484642	3.516	457669	3.516	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	917405	14.28	837264	14.278	110	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270782	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	431238	15.024	387892	15.021	111	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV5)		(Water)	Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38			
1-Bromo-2-Nitrobenzene	482097	3.517	457669	3.516	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	913775	14.28	837264	14.278	109	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268757	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	434790	15.024	387892	15.021	112	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV6)		(Water)	Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59			
1-Bromo-2-Nitrobenzene	483276	3.514	457669	3.516	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	920878	14.281	837264	14.278	110	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270175	3.953	254712	3.955	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	435731	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0280

SDG: 22L0104
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0280-ICV1)		(Solid)	Lab File ID: 12172203ECD7.D			Analyzed: 12/17/22 09:59			
1-Bromo-2-Nitrobenzene	422211	3.516	422211	3.516	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	980480	14.28	980480	14.28	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	251404	3.954	251404	3.954	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	443839	15.022	443839	15.022	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0280-ICV2)		(Solid)	Lab File ID: 12172204ECD7.D			Analyzed: 12/17/22 10:20			
1-Bromo-2-Nitrobenzene	355578	3.517	422211	3.516	84	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	870324	14.28	980480	14.28	89	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	215452	3.956	251404	3.954	86	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	398786	15.022	443839	15.022	90	50 - 200	0.000	+/-0.50	
Blank (BKL0190-BLK1)		(Solid)	Lab File ID: 12172205ECD7.D			Analyzed: 12/17/22 10:41			
1-Bromo-2-Nitrobenzene	470835	3.517	422211	3.516	112	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1053859	14.276	980480	14.28	107	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	283130	3.955	251404	3.954	113	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	497953	15.019	443839	15.022	112	50 - 200	-0.003	+/-0.50	
LCS (BKL0190-BS1)		(Solid)	Lab File ID: 12172206ECD7.D			Analyzed: 12/17/22 11:03			
1-Bromo-2-Nitrobenzene	500820	3.517	422211	3.516	119	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1161515	14.277	980480	14.28	118	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301209	3.955	251404	3.954	120	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	531830	15.021	443839	15.022	120	50 - 200	-0.001	+/-0.50	
LCS Dup (BKL0190-BSD1)		(Solid)	Lab File ID: 12172207ECD7.D			Analyzed: 12/17/22 11:24			
1-Bromo-2-Nitrobenzene	503514	3.515	422211	3.516	119	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1181863	14.277	980480	14.28	121	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303797	3.953	251404	3.954	121	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	543761	15.02	443839	15.022	123	50 - 200	-0.002	+/-0.50	
Reference (BKL0190-SRM1)		(Solid)	Lab File ID: 12172208ECD7.D			Analyzed: 12/17/22 11:45			
1-Bromo-2-Nitrobenzene	509622	3.516	422211	3.516	121	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	733042	14.265	980480	14.28	75	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	292895	3.955	251404	3.954	117	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	435524	15.013	443839	15.022	98	50 - 200	-0.009	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor OEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKL0280

Instrument: ECD7

Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SS773 (22L0104-01)		(Solid)	Lab File ID: 12172211ECD7.D			Analyzed: 12/17/22 12:49			
1-Bromo-2-Nitrobenzene	474528	3.513	422211	3.516	112	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	565695	14.26	870324	14.28	65	50 - 200	-0.020	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	292066	3.951	251404	3.954	116	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	378061	15.011	398786	15.022	95	50 - 200	-0.011	+/-0.50	
LDW22-SS774 (22L0104-02)		(Solid)	Lab File ID: 12172212ECD7.D			Analyzed: 12/17/22 13:10			
1-Bromo-2-Nitrobenzene	509016	3.517	422211	3.516	121	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	930694	14.273	870324	14.28	107	50 - 200	-0.007	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	303737	3.954	251404	3.954	121	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	486997	15.017	398786	15.022	122	50 - 200	-0.005	+/-0.50	



DUAL COLUMN CONFIRMATION SUMMARY

Laboratory: Analytical Resources, LLC SDG: 22L0104
Client: Anchor OEA, LLC Project: AOC4 UR Phase 3
Matrix: Sediment Laboratory ID: 22L0104-01 File ID: 12172211ECD7.D
Sampled: 12/02/22 07:10 Prepared: 12/08/22 14:38 Analyzed: 12/17/22 12:49
Solids: 47.96 Preparation: EPA 3546 (Microwave) Instrument: ECD7
Batch: BKL0190 Sequence: SKL0280
GC Column(1): ZB5 GC Column(2): ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.304	9.318	0.014	75625.4	29.4	35.3
	* 2	9.453	9.466	0.013	74086.6	42.0	
Aroclor 1260	* 1	11.048	11.0625	0.0145	171658.4	128	24.7
	2	11.658	11.66983	0.0118	184262.5	99.9	

* Column used for quantitation



HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS773 22L0104-01	12/02/22 07:10	12/05/22 17:00	12/08/22 14:38	6	365	12/17/22 12:49	9	40	
LDW22-SS774 22L0104-02	12/02/22 07:20	12/05/22 17:00	12/08/22 14:38	6	365	12/17/22 13:10	9	40	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: Refer to SDS for complete safety information

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)



Signal Word: Warning

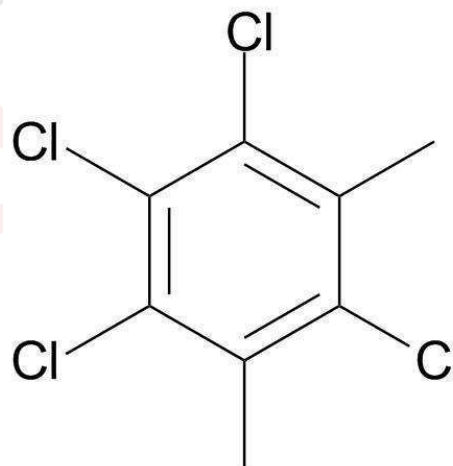
Certified Reference Material



Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration ¹
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C₈H₆Cl₄
Molecular weight: 243.94



C000147

tetrachlorometaxylene

Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

¹ The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:

Larry Decker, Organic QC Manager



AccuStandard

125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N

EXPIRATION: Jul 28, 2015

DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl

LOT #: 990521LB-AC

SOLVENT: N/A

This product is guaranteed accurate to $\pm 0.5\%$ of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration ¹	Certified Analyte Concentration ²
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

2;

C000148

decachlorobiphenyl
Expires 1/15/2020

Prepared By Joshua Rains 1/15/2014

** I 1768 A*

Certified by: *R. Cooper*

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
 2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is $\pm 0.5\%$ which is the Combined Uncertainty $u_c(y)$. It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is $U_c(y) * K$ where K is the coverage factor at the 95% confidence level ($K=2$).
 3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

** Recertified ~ 4-6-09*



Analytical Standard Record
Standard ID: C000148

Printed: 4/23/2015 11:54:44AM

Description:	decachlorobiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	9905211b-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By

Date

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468

Lot Number: CL14017

Description: Aroclor 1221

Certification Date: August 20, 2019

Storage: 4 °C

Expiration Date: August 31, 2027

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

I 10155



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Chemical Testing Laboratory
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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469

Lot Number: CL14914

Description: Aroclor 1232

Certification Date: January 31, 2020

Storage: 4 °C

Expiration Date: January 31, 2028

Provided As: 1 mL in 2 mL Ampoule in Isooctane



Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

I 010156



Reference Material Producer
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2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470

Lot Number: CL14018

Description: Aroclor 1242

Certification Date: August 20, 2019

Storage: 4 °C

Expiration Date: August 31, 2027

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

I 010157



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3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101471

Lot Number: CL15384

Description: Aroclor 1248

Certification Date: June 19, 2020

Storage: 4 °C

Expiration Date: June 30, 2028

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill

Andrea Gill, Certified Reference Materials Manager

<u>Component</u>	<u>CAS #</u>	<u>Certified Value µg/mL</u>	<u>Expanded Uncertainty</u>
Aroclor 1248	12672-29-6	1000	± 0.520%

I 010158



Reference Material Producer
Certificate No. 2427.02



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Chemical Testing Laboratory
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2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.

³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101472

Lot Number: CL13055

Description: Aroclor 1254

Certification Date: November 29, 2018

Storage: 4 °C

Expiration Date: November 30, 2026

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.247%

I 010159



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



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2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit: kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- ³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101474

Lot Number: CL11330

Description: Aroclor 1262

Certification Date: May 15, 2015

Storage: 4 °C

Expiration Date: April 30, 2023

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Revision Date: April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

I 10160



Reference Material Producer
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3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- ³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101475

Lot Number: CL11331

Description: Aroclor 1268

Certification Date: May 15, 2015

Storage: 4 °C

Expiration Date: April 30, 2023

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Revision Date: April 2, 2018

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

I 010161



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
- ³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Produced by Phenova

6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462

Lot Number: CL16516

Description: Aroclor 1260

Certification Date: March 4, 2021

Storage: 4 °C

Expiration Date: February 28, 2029

Provided As: 1 mL in 2 mL Ampoule in Hexane

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

J006465



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467

Lot Number: CL16555

Description: Aroclor 1016

Certification Date: June 22, 2021

Storage: 4 °C

Expiration Date: February 28, 2029

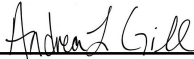
Provided As: 1 mL in 2 mL Ampoule in Isooctane

J012591

AROCLOR 1016

Expires 2/28/2029

Prepared By Joshua Rains 11/26/2021



Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.310%

Certificate of Analysis

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1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. **Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. **Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



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Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462

Lot Number: CL16516

Description: Aroclor 1260

Certification Date: March 4, 2021

Storage: 4 °C

Expiration Date: February 28, 2029

Provided As: 1 mL in 2 mL Ampoule in Hexane

J012592

AROCLOR 1260

Expires 2/28/2029

Prepared By Joshua Rains 11/26/2021



Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. Quality Standards: Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
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Chemical Testing Laboratory
Certificate No. 2427.03



Certificate of Analysis

Aroclor 1016 Solution

Product Number: PP-282

Page: 1 of 1

Lot Number: CR-0761

Lot Issue Date: 28-Feb-2017

Expiration Date: 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

*K1254
Recd JP
02/05/17*

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 9001
Registered
TUV USA, Inc.

John Russo
President

Monica Bourgeois
Director of QA/RA



Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1

Lot Issue Date: 20-Jan-2021

Lot Number: 0006582048

Expiration Date: 28-Feb-2025

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

K 1255

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Certificate of Analysis ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312

Page: 1 of 1

Lot Number: CS-6293

Lot Issue Date: 04-Jan-2019

Expiration Date: 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937

ISO 17034



Agilent

Trusted Answers

Reference Material Certificate

Product Name: Aroclor 1248 Standard **Lot Number:** 0006626997
Product Number: PP-342-1 **Lot Issue Date:** 17-Aug-2021
Storage Conditions: Store at Room Temperature (15° to 30°C). **Expiration Date:** 30-Sep-2025

Component Name	CERTIFIED VALUES			CAS#	Analyte Lot
	Concentration	Expanded Uncertainty			
Aroclor 1248	100.3	± 0.5 µg/mL		012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.



Certificate of Analysis

Aroclor 1254 Solution

Product Number: PP-352

Page: 1 of 1

Lot Number: CS-2321

Lot Issue Date: 04-May-2018

Expiration Date: 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

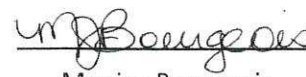
K-1250

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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TUV USA, Inc.


John Russo
President


Monica Bourgeois
Director of QA/RA



Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1

Lot Issue Date: 28-Apr-2020

Lot Number: 0006535333

Expiration Date: 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

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CSD-QA-015.1



ISO 17025 Cert
No. AT-1937



Certificate of Analysis ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1

Page: 1 of 1

Lot Number: 0006499800

Lot Issue Date: 04-Nov-2019

Expiration Date: 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO 17025 Cert No.
AT-1937



Certificate of Analysis ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1

Page: 1 of 1

Lot Number: CF-2197A

Lot Issue Date: 05-Jul-2016

Expiration Date: 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

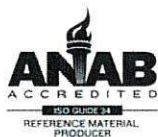
Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO17025 Cert No.
AT-1937



Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1

Lot Issue Date: 09-Feb-2021

Lot Number: 0006587800

Expiration Date: 31-Mar-2029

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative



ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 1

www.agilent.com/quality/
CSD-QA-015.1



ISO 17025 Cert
No. AT-1937

Certificate of Analysis



Phenova Certified Reference Materials are sold by Phenomenex.

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Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467

Lot Number: CL12975

Description: Aroclor 1016

Certification Date: November 19, 2018

Storage: 4 °C

Expiration Date: October 31, 2026

Provided As: 1 mL in 2 mL Ampoule in Isooctane

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

12975



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC-MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



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Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. **Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
2. **Quality Standards:** Phenova is accredited by A2LA to ISO Guide 34³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
3. **Intended Use:** The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.
4. **Instruction:** Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.
5. **Hazardous Situation:** The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.
6. **Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
7. **Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
8. **Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
9. **Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$u_{CRM} = k \sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. **Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
11. **Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.
12. **Period of Validity:** The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

¹ ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.

² ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.

³ ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.

⁴ ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.

⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

IL111063_US

Certificate of Analysis

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462

Lot Number: CL18021

Description: Aroclor 1260

Certification Date: February 14, 2022

Storage: 4 °C

Expiration Date: February 28, 2030

Provided As: 1 mL in 2 mL Ampoule in Hexane

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis



Page 2 of 2

Produced by Phenova

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

- Quality Document:** This Certificate of Analysis has been created in accordance with ISO Guide 31¹ and ISO Guide 35.²
- Quality Standards:** Phenova is accredited by A2LA to ISO 17034³ and ISO/IEC 17025⁴ as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.
- Intended Use:** The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.
- Handling and Usage Notes:** Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.
- Hazardous Situation:** The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.
- Level of Homogeneity:** The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.
- Certified Value:** Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.
- Raw Materials and Purity:** Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.
- Expanded Uncertainty:** The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98⁵ and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).
$$u_{CRM} = k\sqrt{u_M^2 + u_H^2 + u_{LTS}^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.
- Metrological Traceability:** The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.
- Values Obtained During Product Testing:** This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.
- Period of Validity:** The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

- ¹ ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
- ² ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
- ³ ISO 17034 – General Requirements for the Competence of Reference Material Producers.
- ⁴ ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
- ⁵ ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)



Reference Material Producer
Certificate No. 2427.02



Phenova is an accredited ISO/IEC 17034 Reference Material
Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.



Chemical Testing Laboratory
Certificate No. 2427.03

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15546

Order Number: CB014961

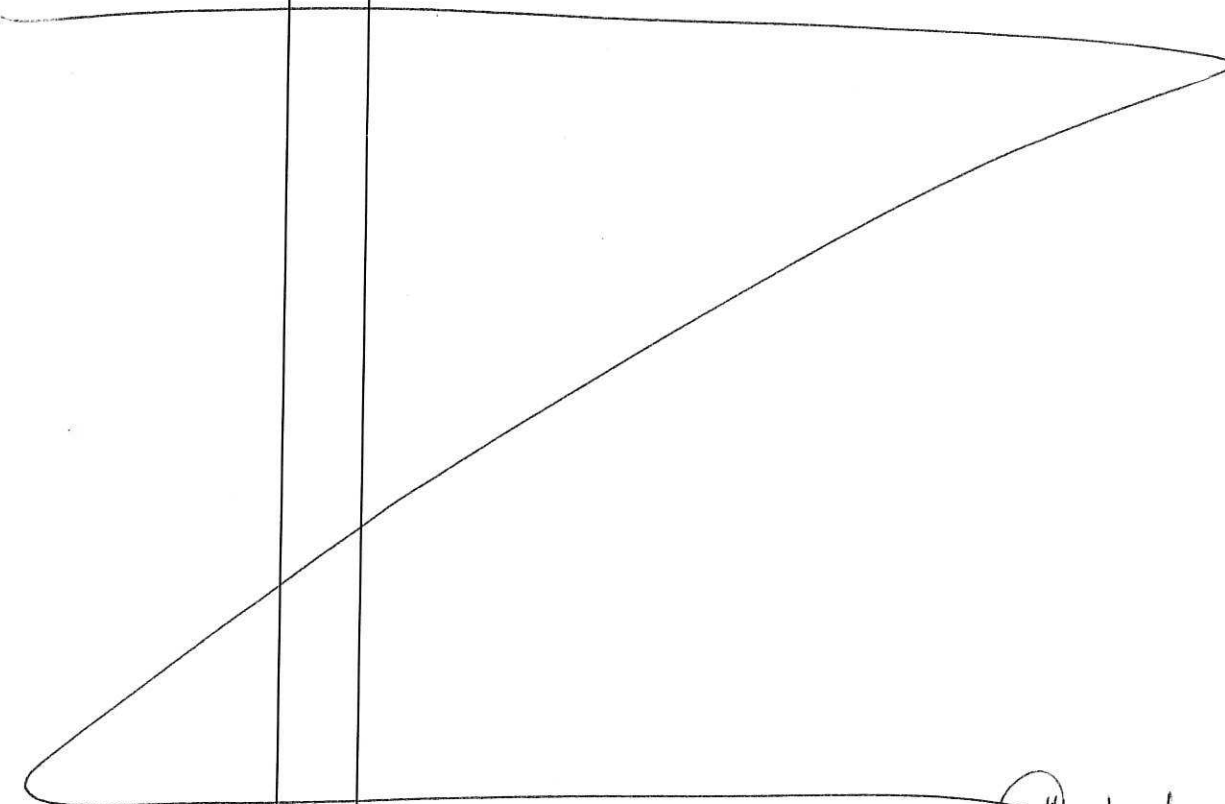
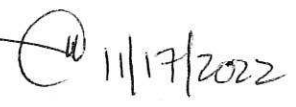
Date Shipped: 11/17/2022

AirBill No(s):

From: QATS LABORATORY
 2700 CHANDLER AVENUE, BLDG. B
 LAS VEGAS, NV 89120
 PHONE: 1-702-895-8712

To: Kelly Bottem
 Analytical Resources, Inc.
 4611 S. 134th Place SUITE 100
 Tukwila WA 98168
 206-695-6211

519204142414

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
<i>K&L 0815</i> PSRM0164	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
<i>K&L 0816</i> PSRM0165	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
<i>K&L 0817</i> PSRM0166	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
				
				
PUGET SOUND SRM FOR THE LOCKHEED WEST SEATTLE SF SITE 5-YEAR REVIEW MONITORING.				

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature) <i>[Signature]</i>	Date/Time (1400) <i>11/17/2022</i>	Received by: (Signature) <i>[Signature]</i>	Date/Time <i>10:22</i> <i>11/18/22</i>
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS773

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Sediment Laboratory ID: 22L0104-01 B SDG: 22L0104

Sampled: 12/02/22 07:10 Prepared: 12/10/22 10:00 File ID: CubeData_12272022@1337-149

% Solids: 48.06 Preparation: Plumb 1981 Analyzed: 12/12/22 16:18

Batch: BKL0237 Sequence: SKL0152 Initial/Final: 0.1394 g Wet / 0.1394 g

Instrument: TOC Cube Calibration: FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.46	1	0.02	0.02	



Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SS774

Laboratory: Analytical Resources, LLC
 Client: Anchor QEA, LLC
 Project: AOC4 UR Phase 3
 Matrix: Sediment Laboratory ID: 22L0104-02 B SDG: 22L0104
 Sampled: 12/02/22 07:20 Prepared: 12/10/22 10:00 File ID: CubeData_12272022@1337-183
 % Solids: 92.54 Preparation: Plumb 1981 Analyzed: 12/12/22 18:49
 Batch: BKL0237 Sequence: SKL0152 Initial/Final: 0.5042 g Wet / 0.5042 g
 Instrument: TOC Cube Calibration: FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.05	1	0.02	0.02	



Form I
METHOD BLANK DATA SHEET
EPA 9060A m
TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Batch: BKL0237

Laboratory ID: BKL0237-BLK1

Prepared: 12/10/22 10:00

Matrix: Solid

Preparation: Plumb 1981

Analyzed: 12/12/22 12:16

Sequence: SKL0152

Calibration: FD00070

Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U



DUPLICATES
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0237-DUP2

Batch: BKL0237

Lab Source ID: 22L0104-01

Preparation: Plumb 1981

Initial/Final: 0.1241 g / 0.1241 g

Source Sample Name: LDW22-SS773

% Solids: 48.06

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	2.46	2.39	2.92	

*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor OEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Matrix:	<u>Solid</u>	Analyzed:	<u>12/12/22 18:19</u>
Batch:	<u>BKL0237</u>	Laboratory ID:	<u>BKL0237-MS2</u>
Preparation:	<u>Plumb 1981</u>	Sequence Name:	<u>Matrix Spike</u>
Initial/Final:	<u>0.1954 g / 0.1954 g</u>	Source Sample:	<u>LDW22-SS773</u>

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	5.11	2.46		7.65		102	75 - 125

* Values outside of QC limits



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sequence: SKD0371

Instrument: TOC Cube

Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	<u>Analytical Resources, LLC</u>	SDG:	<u>22L0104</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>AOC4 UR Phase 3</u>
Sequence:	<u>SKL0152</u>	Instrument:	<u>TOC Cube</u>
		Calibration:	<u>FD00070</u>

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0152-ICV1	CubeData_12272022@1337-039	NA	12/12/22 10:45
Initial Cal Blank	SKL0152-ICB1	CubeData_12272022@1337-051	NA	12/12/22 11:15
MRL Check	BKL0237-MRL1	CubeData_12272022@1337-061	Solid	12/12/22 11:45
Blank	BKL0237-BLK1	CubeData_12272022@1337-074	Solid	12/12/22 12:16
LCS	BKL0237-BS1	CubeData_12272022@1337-080	Solid	12/12/22 12:46
Reference	BKL0237-SRM1	CubeData_12272022@1337-092	Solid	12/12/22 13:16
LDW22-SS773	22L0104-01	CubeData_12272022@1337-149	Solid	12/12/22 16:18
Calibration Check	SKL0152-CCV1	CubeData_12272022@1337-156	NA	12/12/22 16:48
Calibration Blank	SKL0152-CCB1	CubeData_12272022@1337-162	NA	12/12/22 17:19
LDW22-SS773	BKL0237-DUP2	CubeData_12272022@1337-168	Solid	12/12/22 17:49
LDW22-SS773	BKL0237-MS2	CubeData_12272022@1337-176	Solid	12/12/22 18:19
LDW22-SS774	22L0104-02	CubeData_12272022@1337-183	Solid	12/12/22 18:49
Calibration Check	SKL0152-CCV2	CubeData_12272022@1337-234	NA	12/12/22 22:53
Calibration Blank	SKL0152-CCB2	CubeData_12272022@1337-240	NA	12/12/22 23:23
Calibration Check	SKL0152-CCV3	CubeData_12272022@1337-313	NA	12/13/22 04:57
Calibration Blank	SKL0152-CCB3	CubeData_12272022@1337-318	NA	12/13/22 05:28
Calibration Check	SKL0152-CCV4	CubeData_12272022@1337-384	NA	12/13/22 11:03
Calibration Blank	SKL0152-CCB4	CubeData_12272022@1337-388	NA	12/13/22 11:33
Calibration Check	SKL0152-CCV5	CubeData_12272022@1337-457	NA	12/13/22 17:07
Calibration Blank	SKL0152-CCB5	CubeData_12272022@1337-461	NA	12/13/22 17:37
Calibration Check	SKL0152-CCV6	CubeData_12272022@1337-530	NA	12/13/22 23:11
Calibration Blank	SKL0152-CCB6	CubeData_12272022@1337-539	NA	12/13/22 23:42
Calibration Check	SKL0152-CCV7	CubeData_12272022@1337-610	NA	12/14/22 05:17
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Calibration Check	SKL0152-CCV9	CubeData_12272022@1337-201	NA	12/14/22 17:24
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Calibration Check	SKL0152-CCVA	CubeData_12272022@1337-280	NA	12/14/22 23:30



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

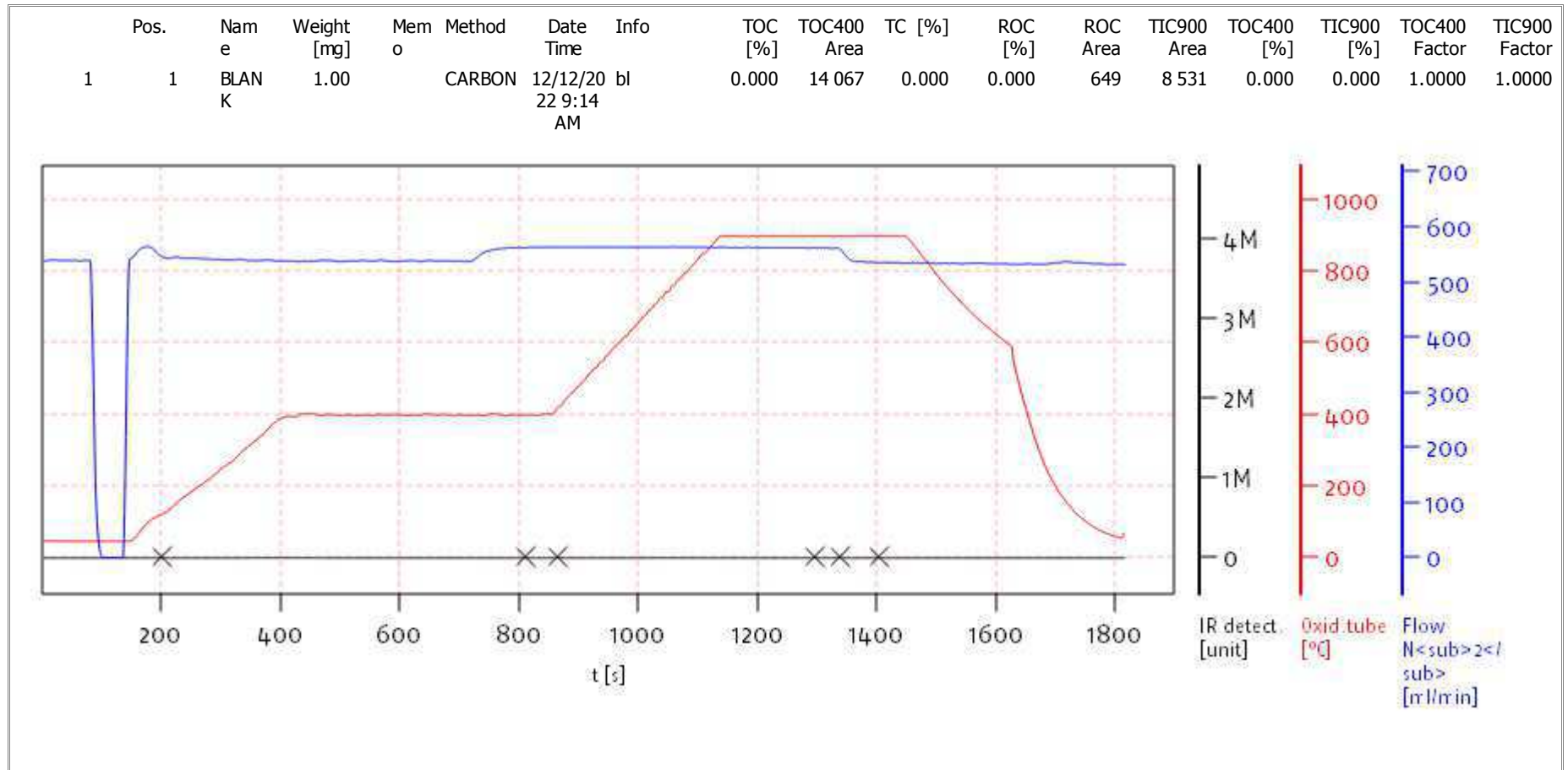
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Instrument: TOC Cube

Calibration: FD00070

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Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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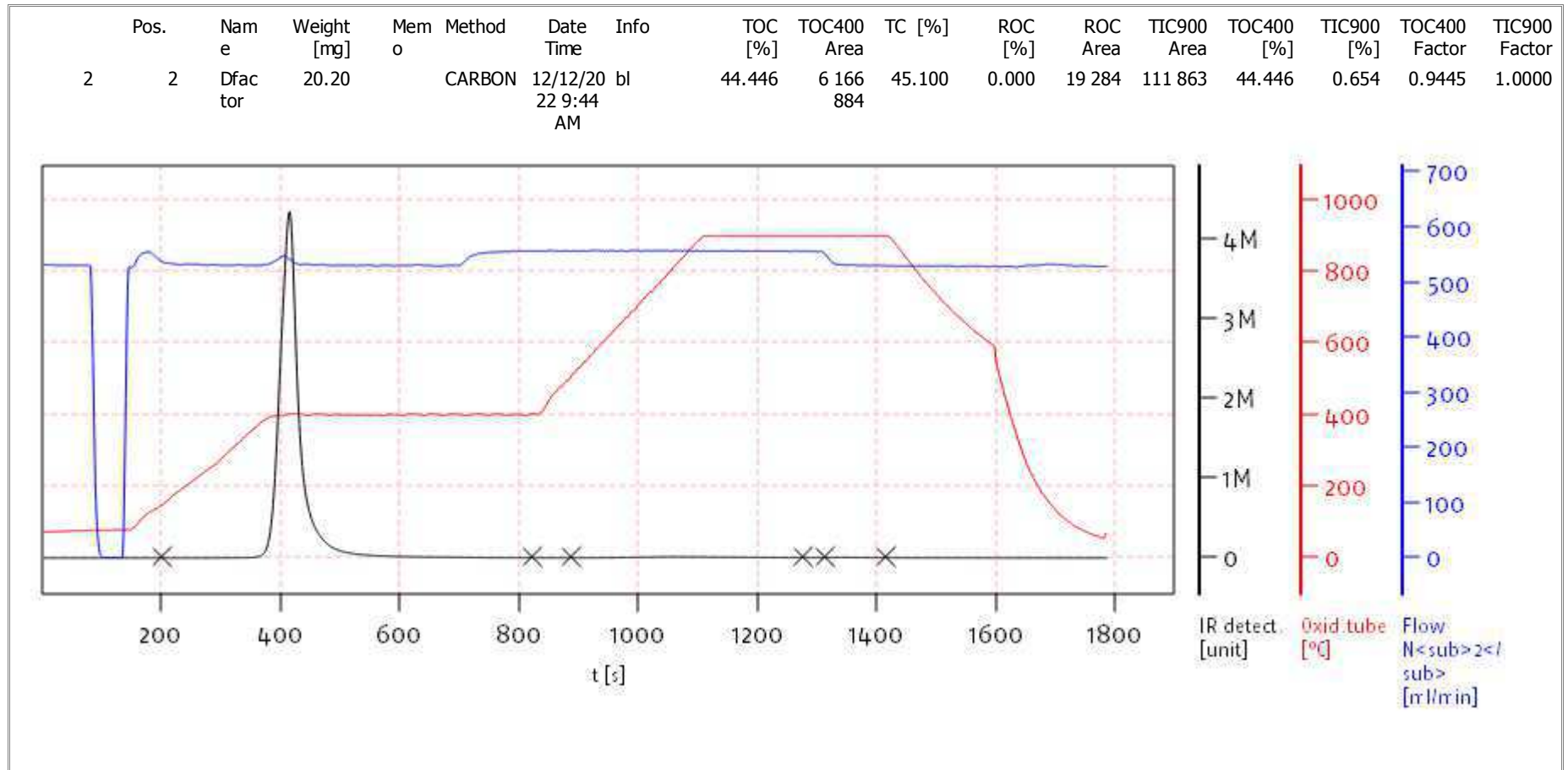
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Date: Fri Dec 16 09:43:23 2022



soliTOC V2.0.2 (31015f9) 2018-11-19
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 Mode CCC

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 Analyst: DOE



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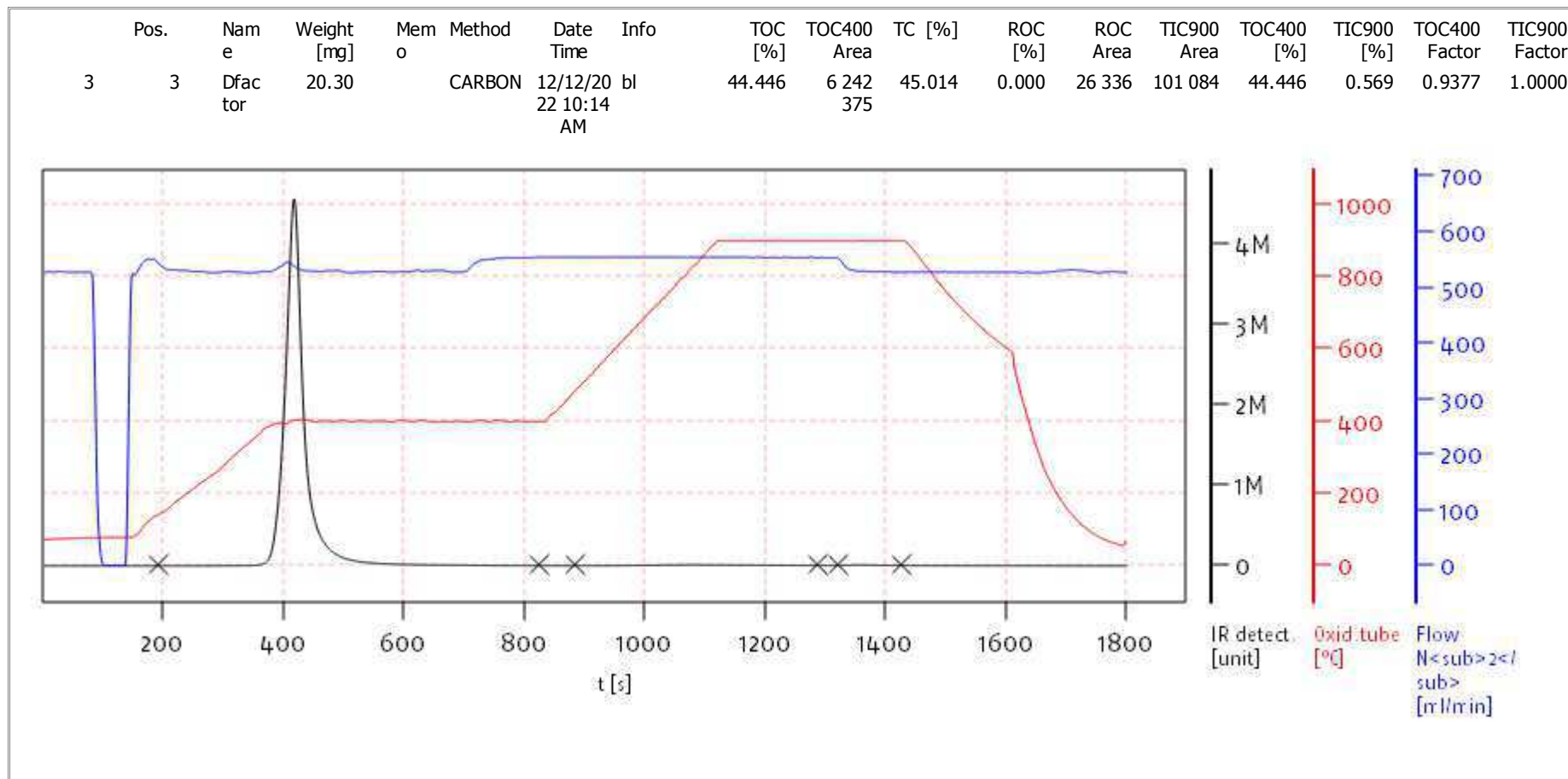
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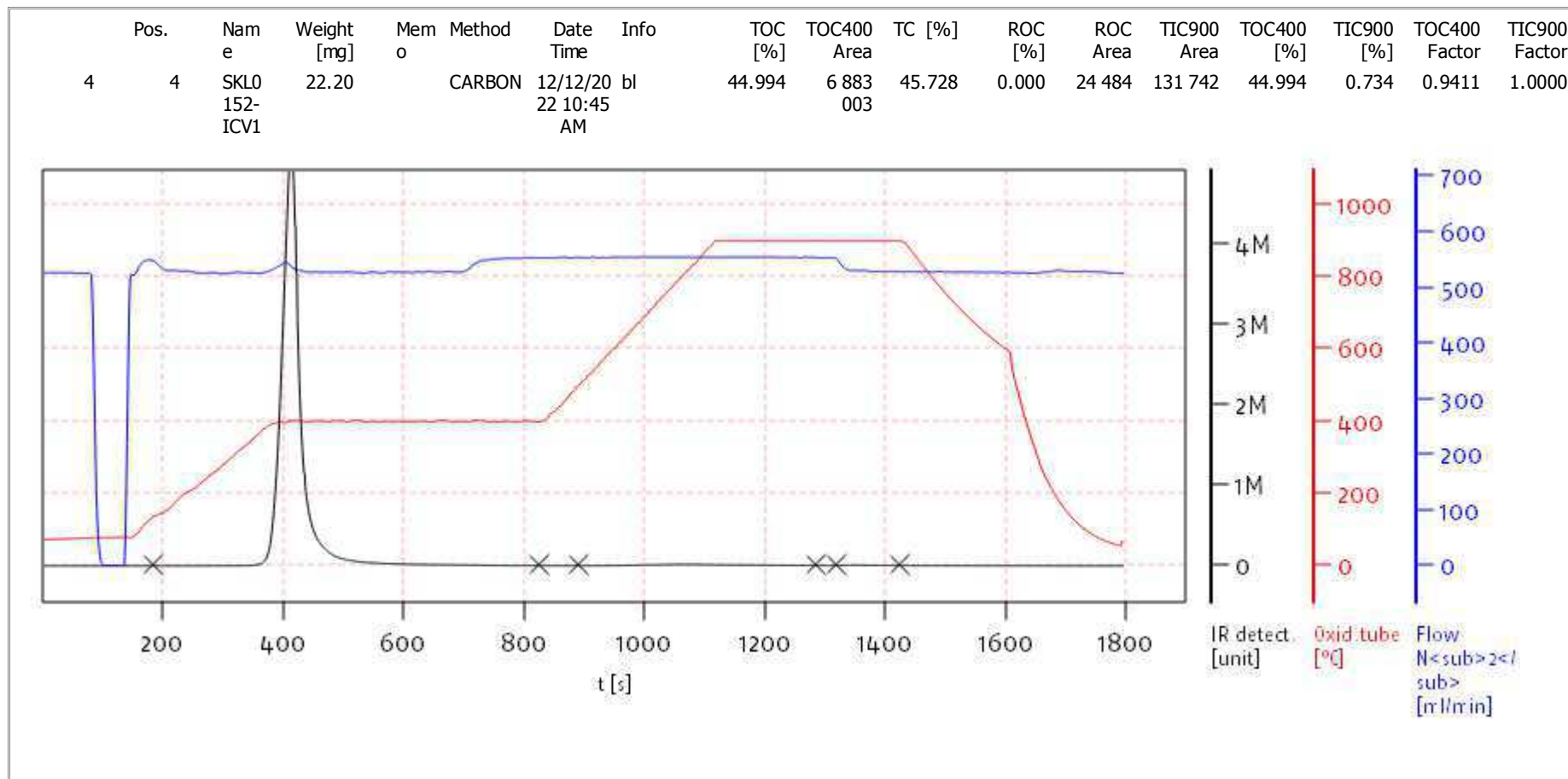
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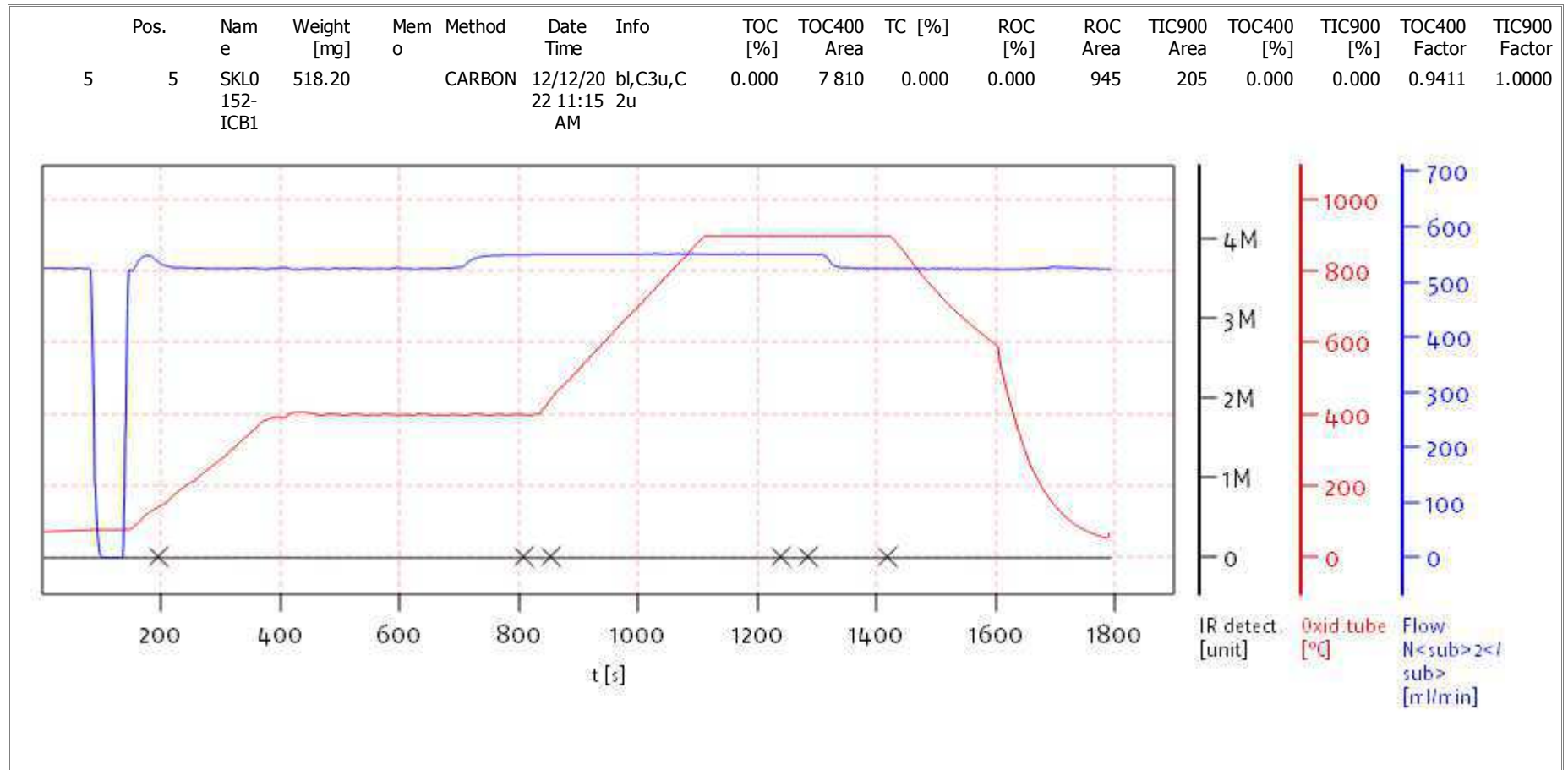
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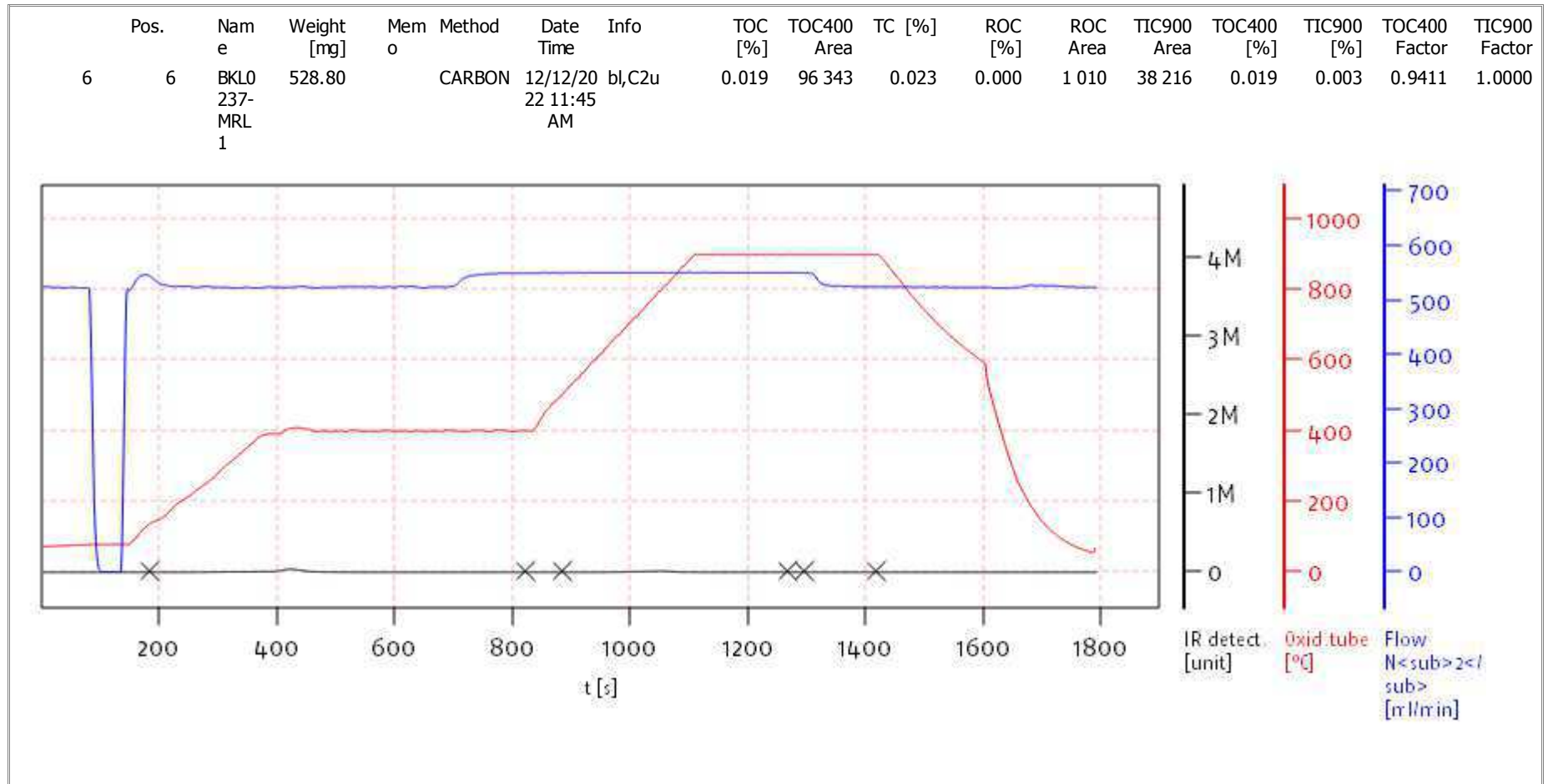
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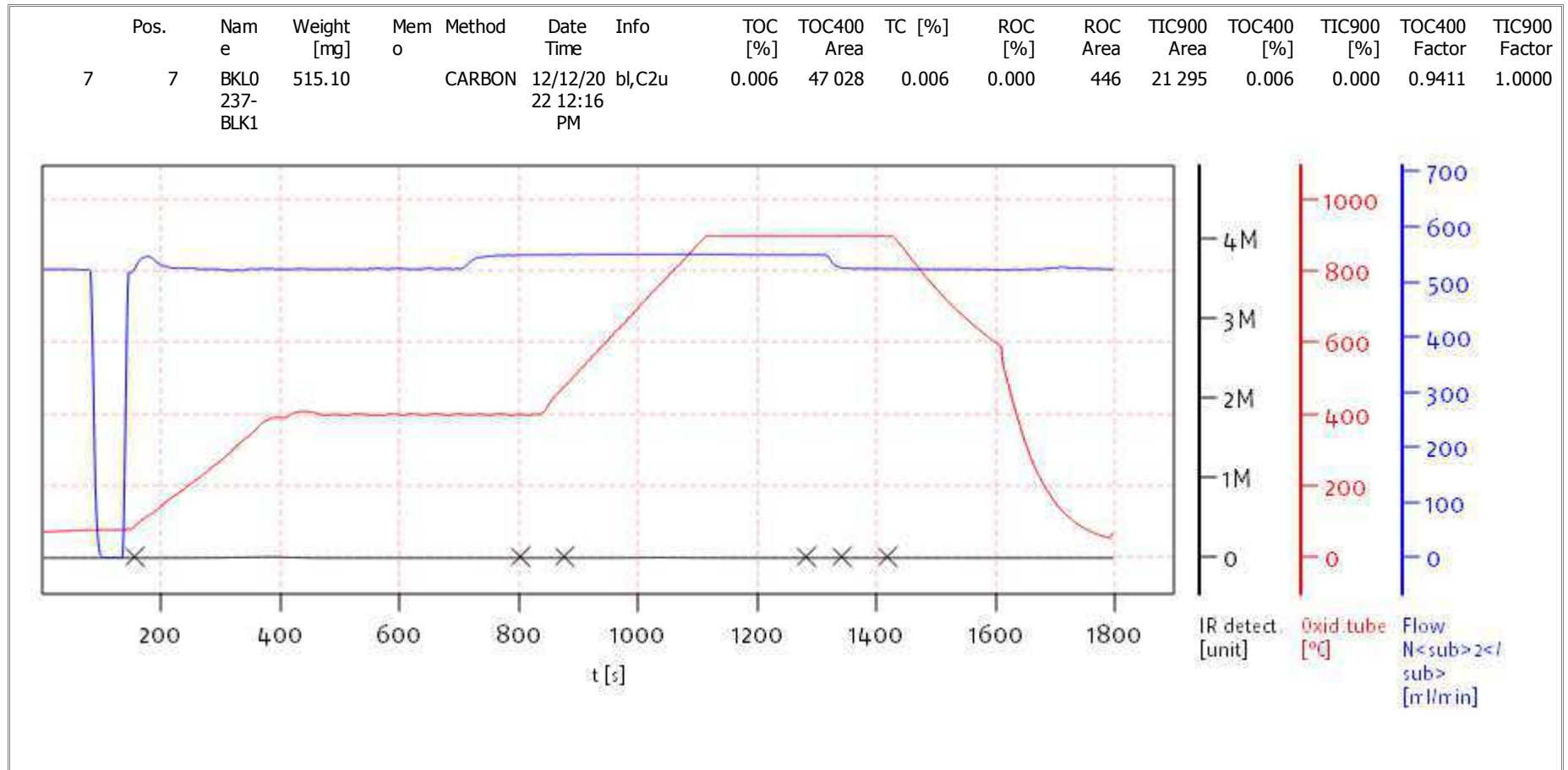
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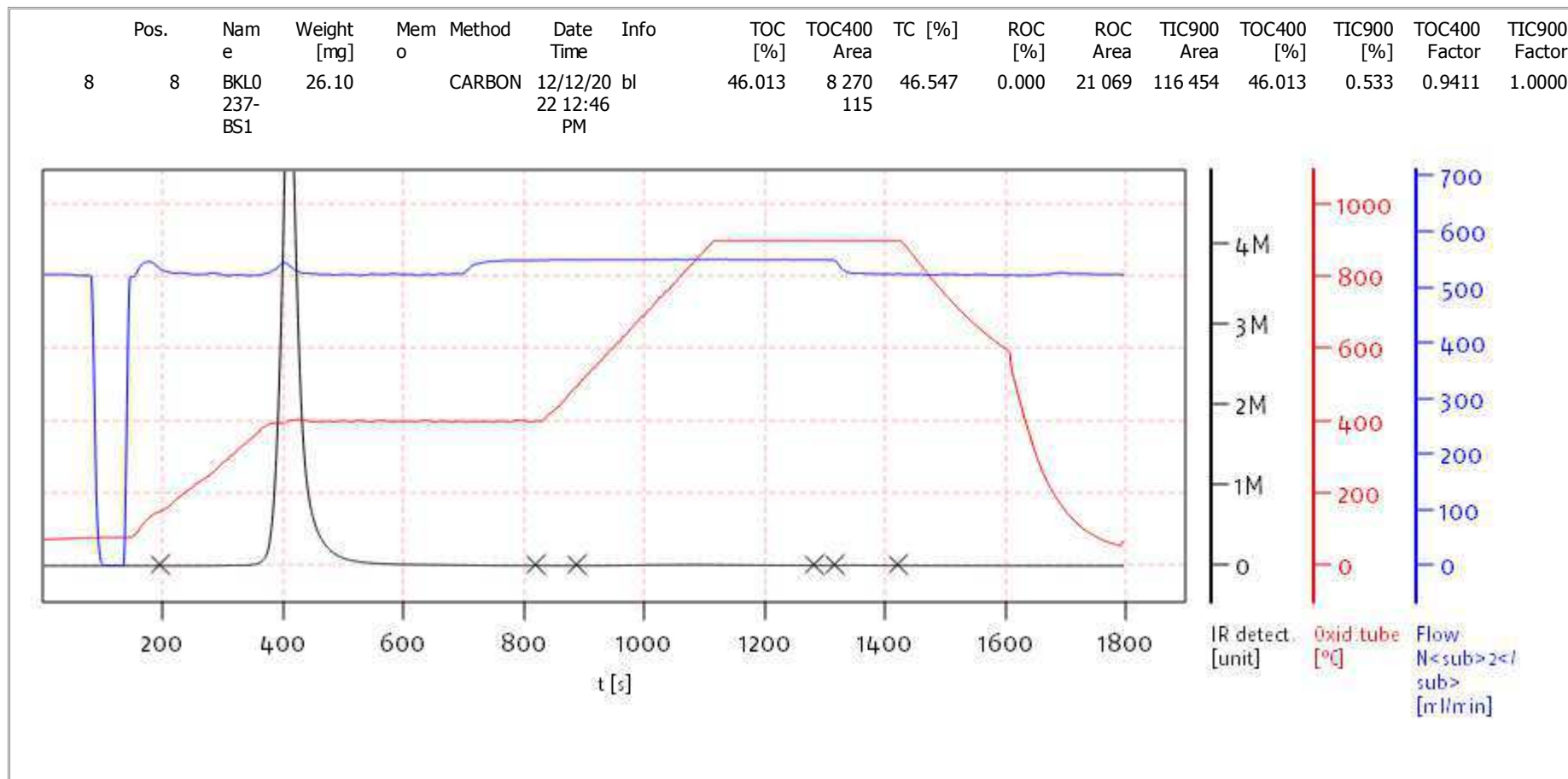
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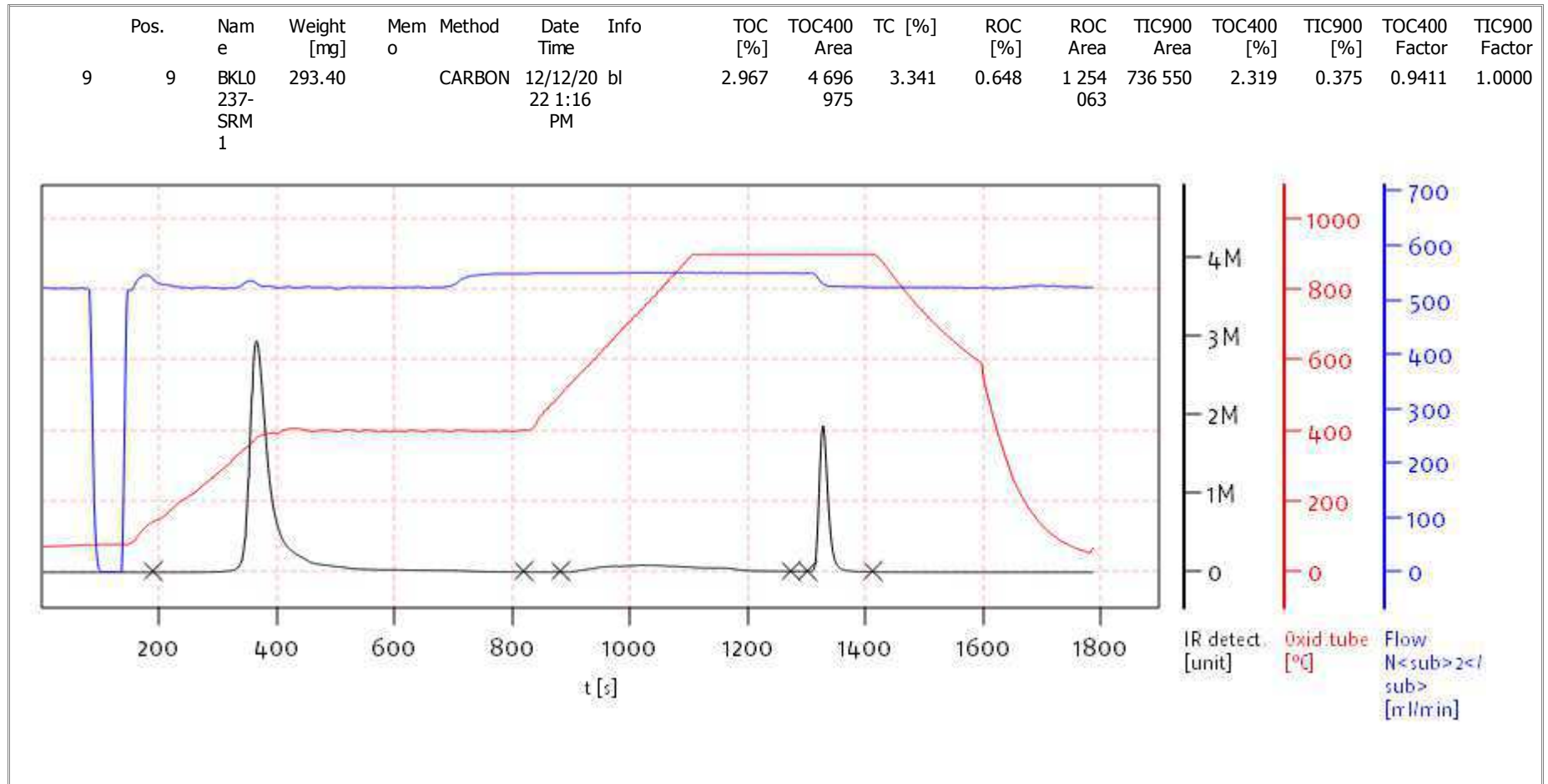
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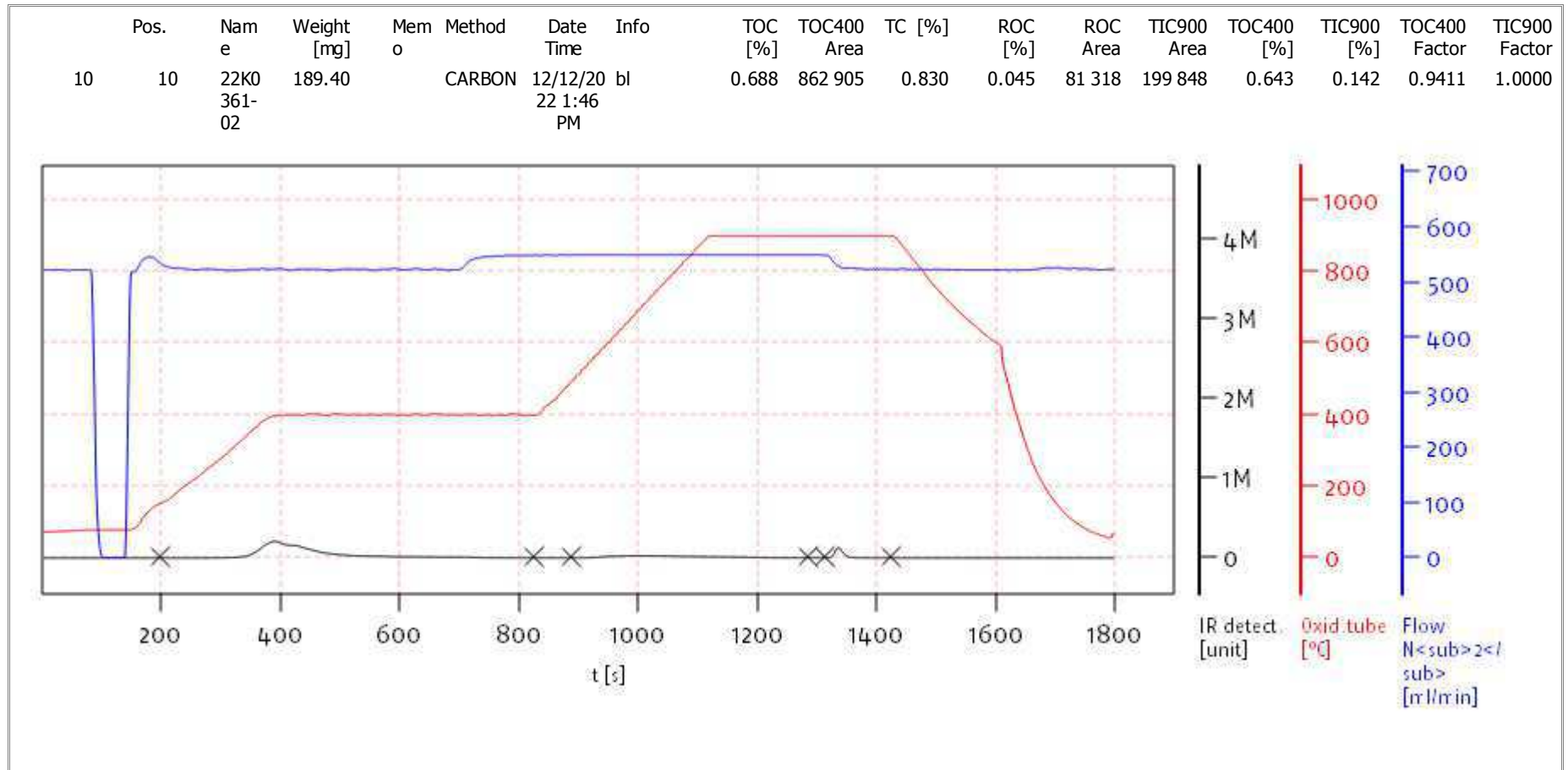
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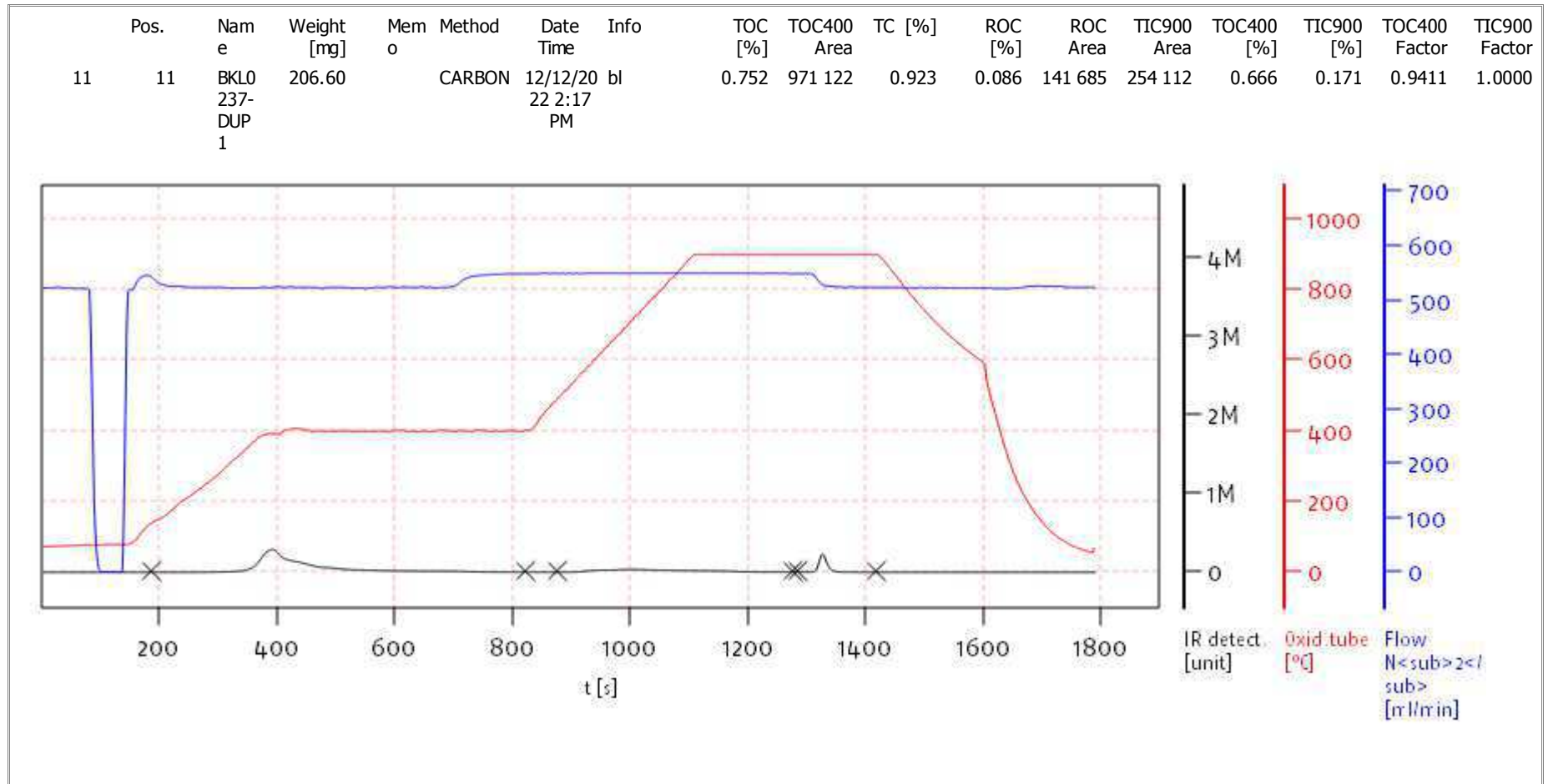
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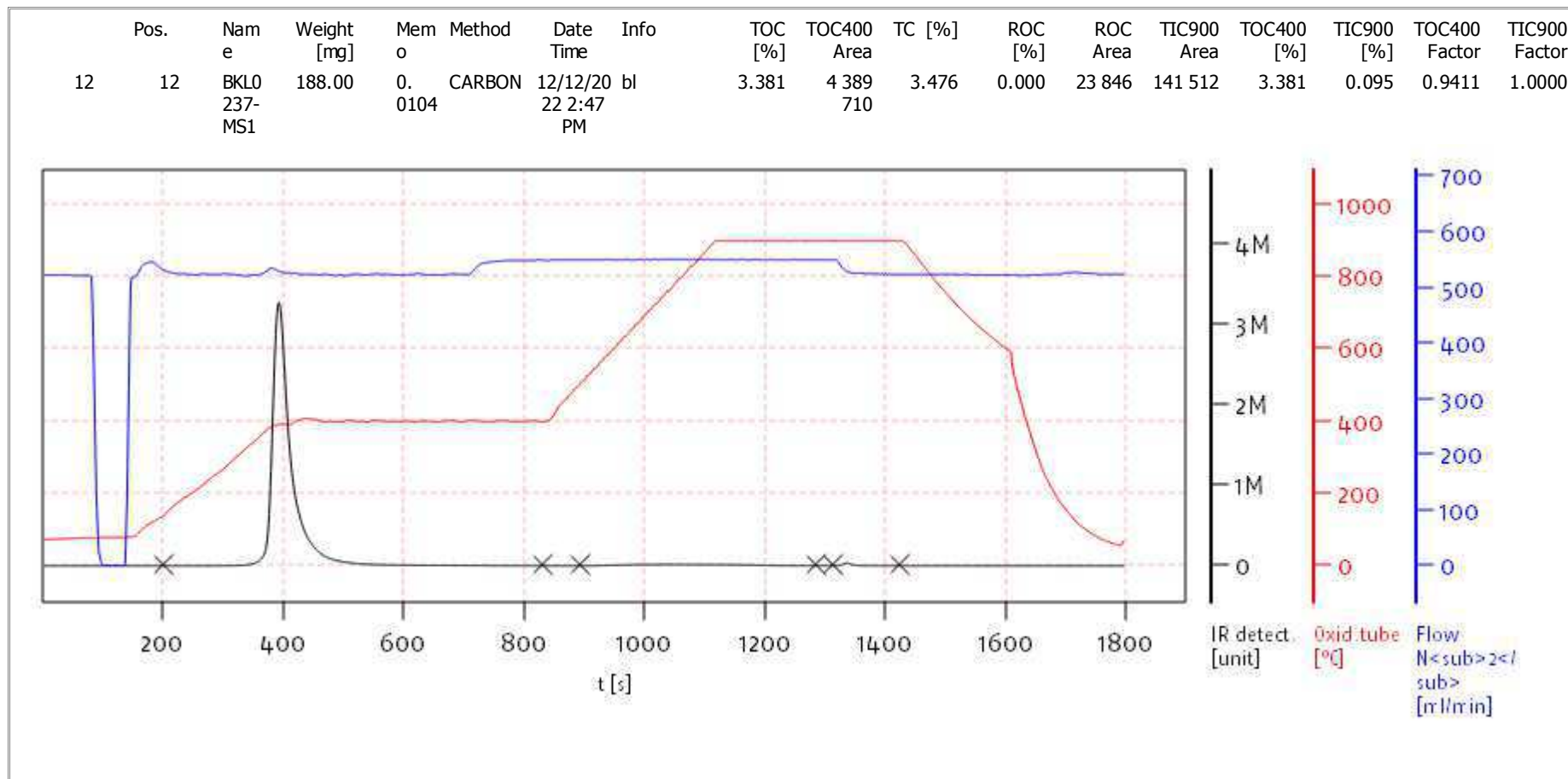
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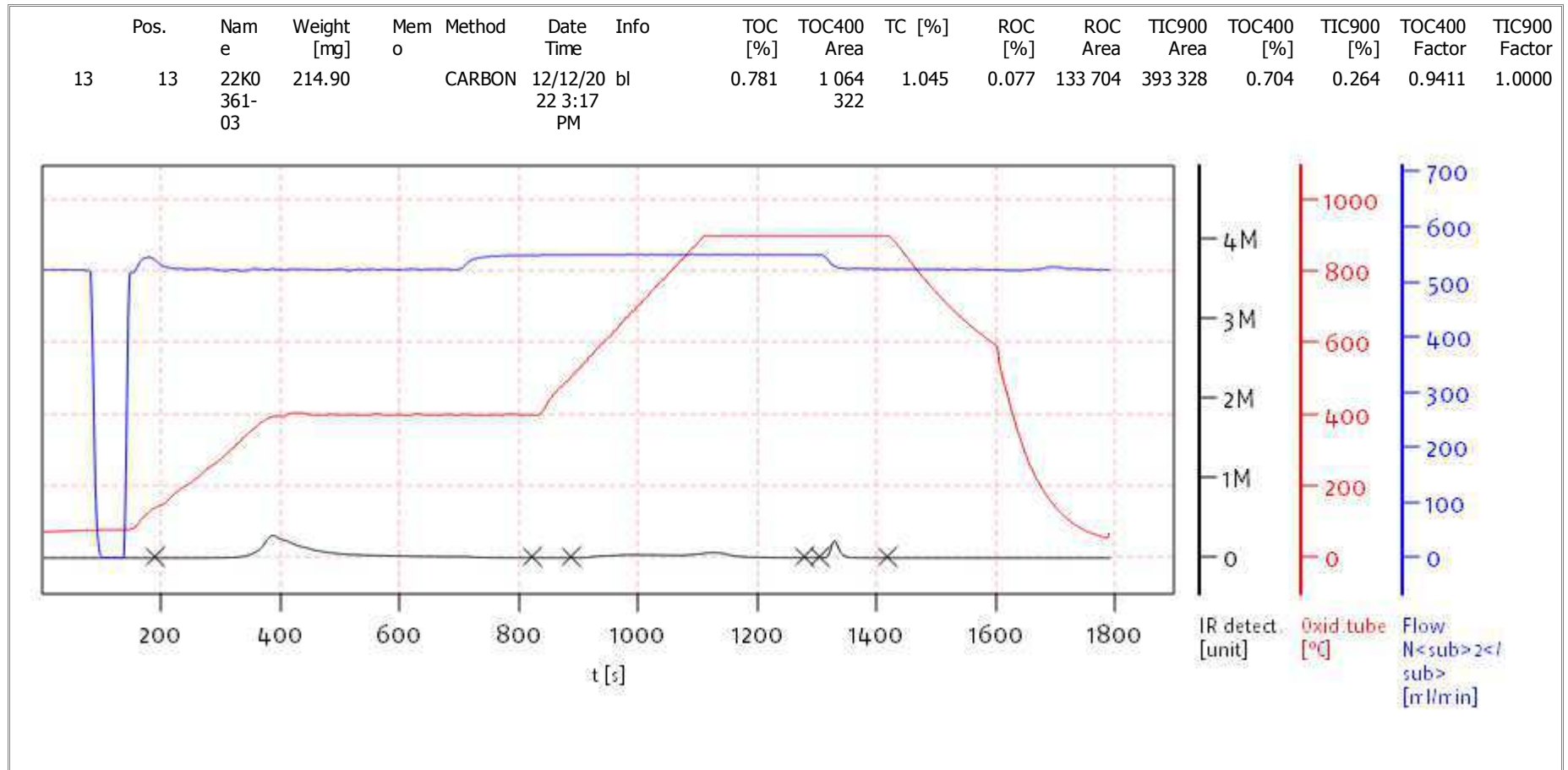
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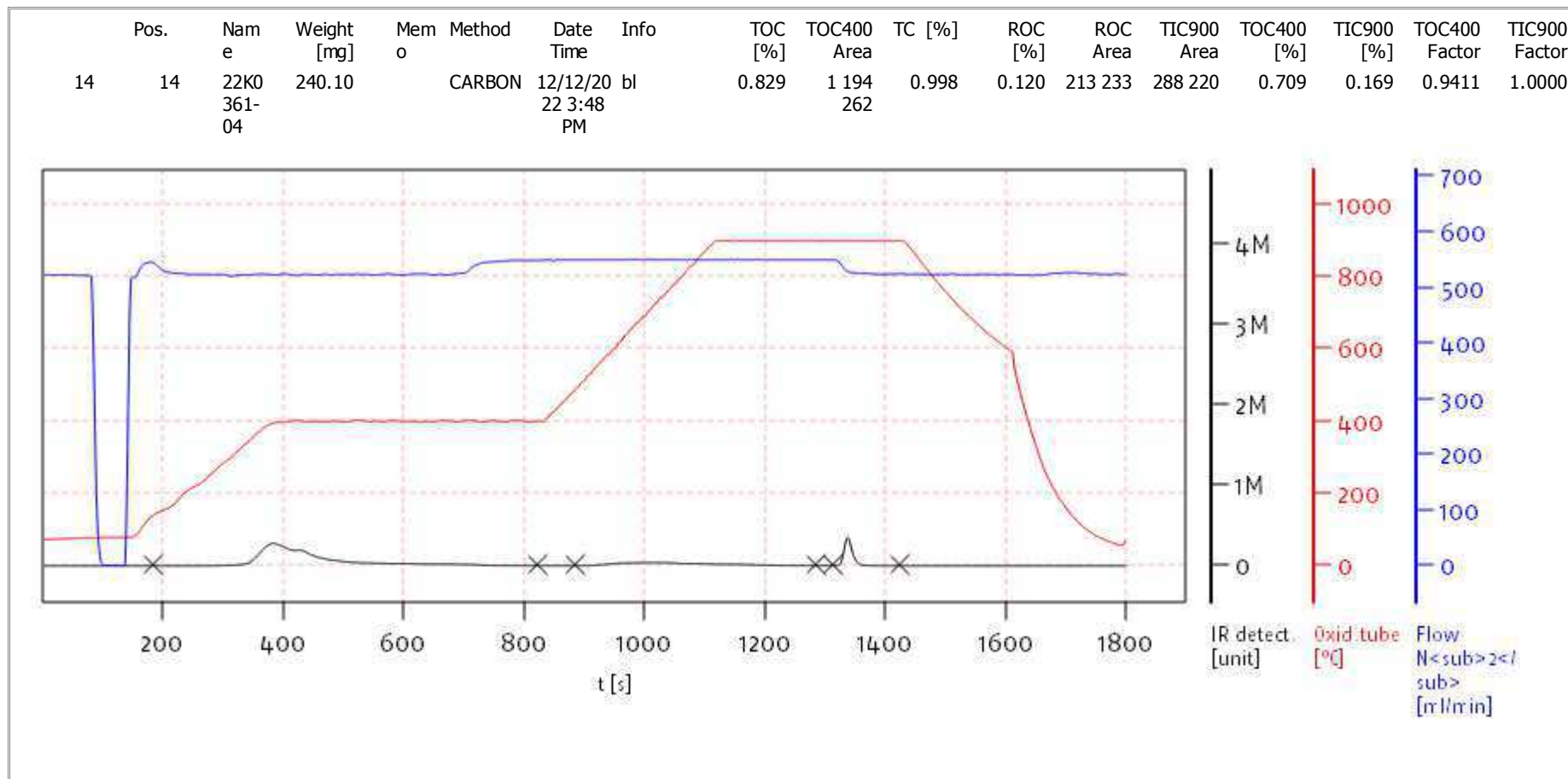
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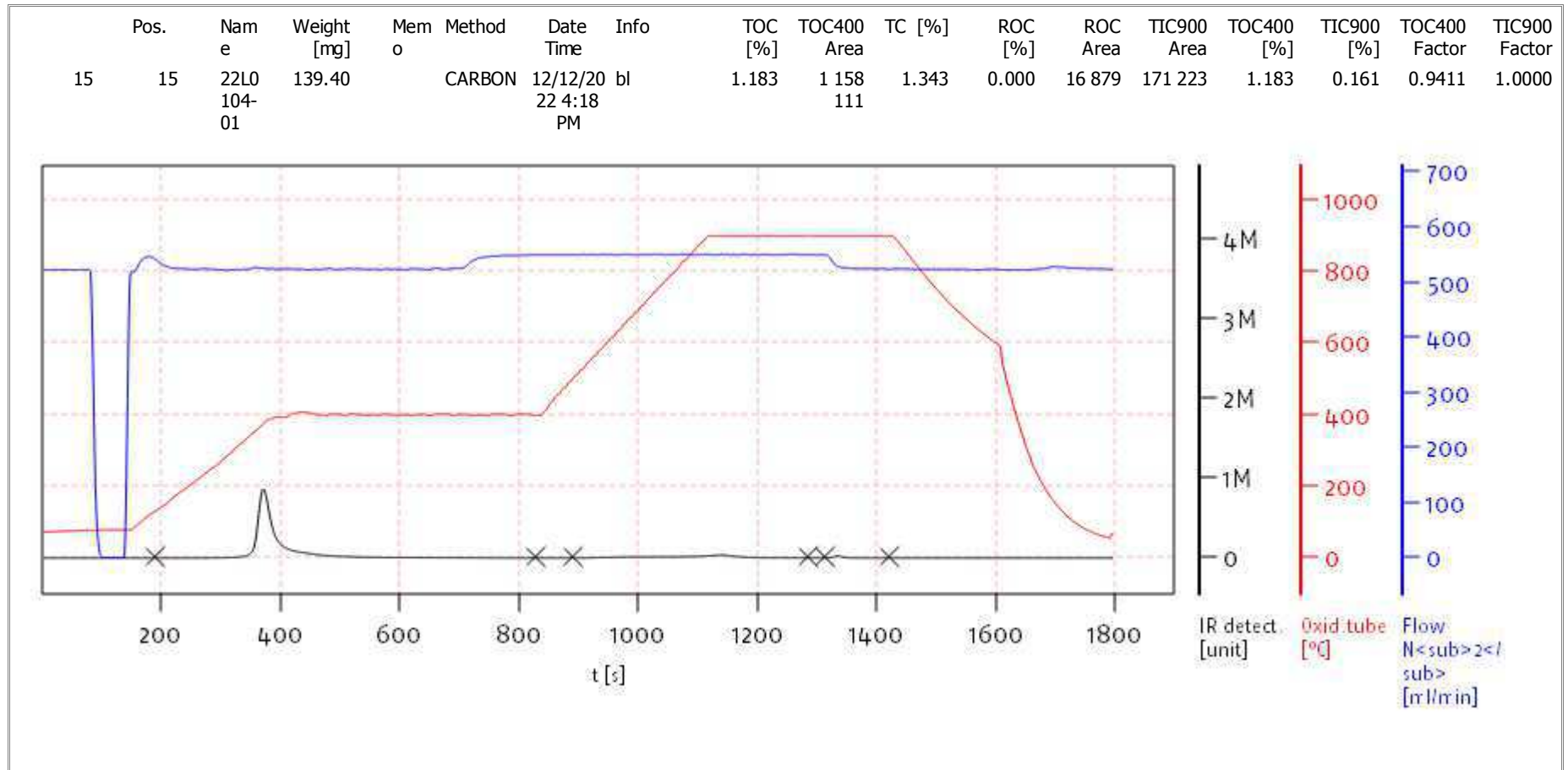
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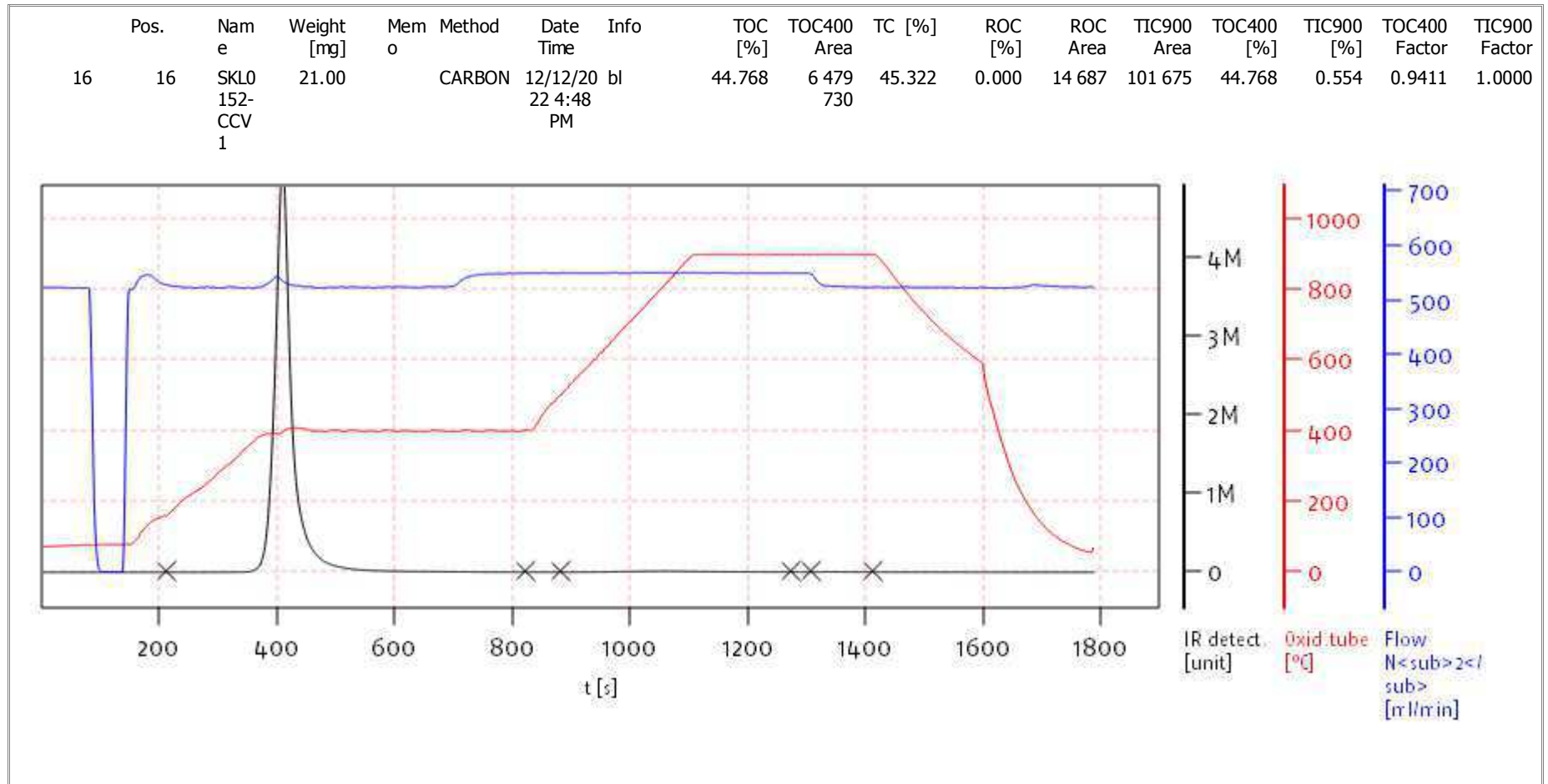
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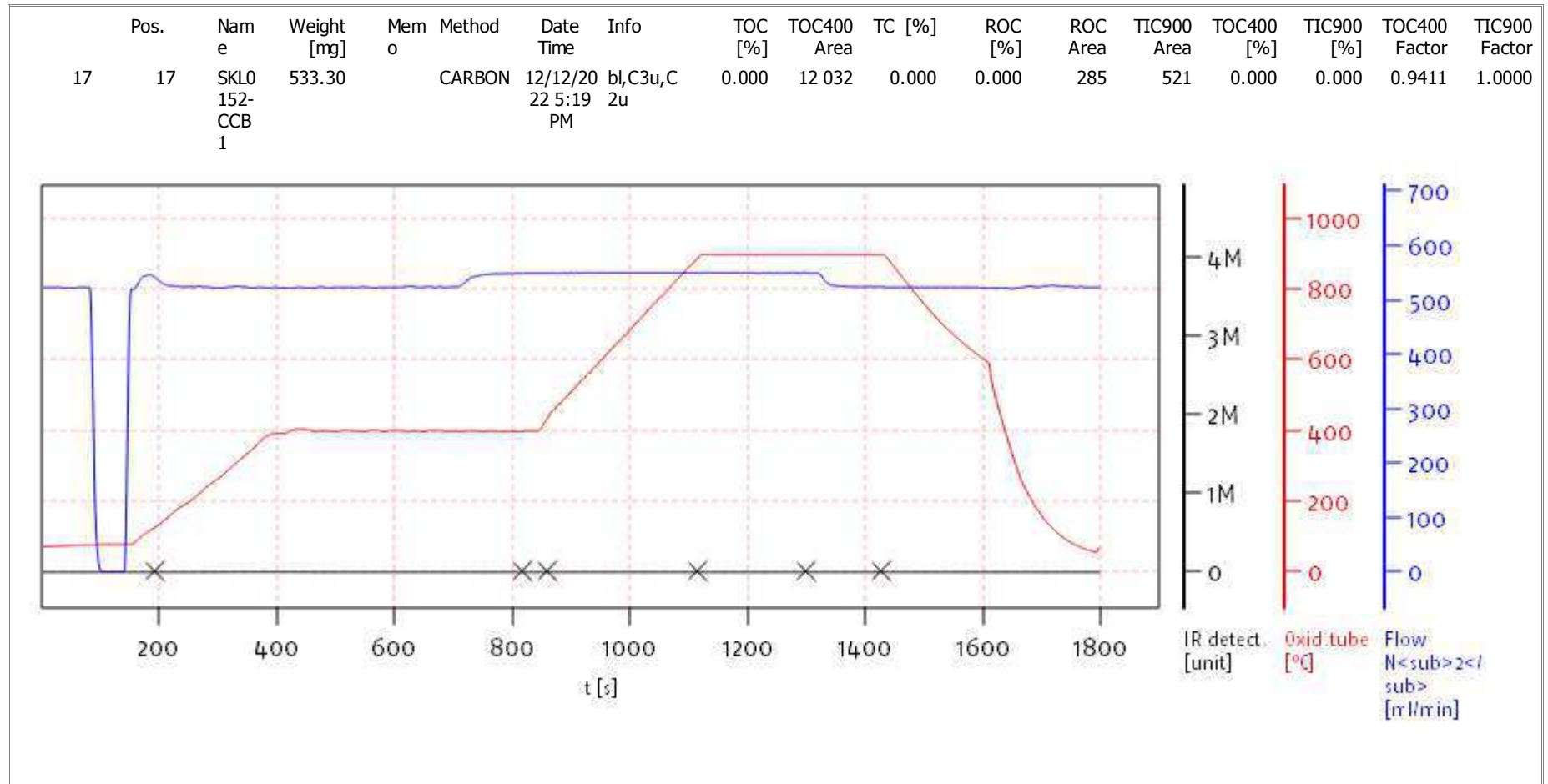
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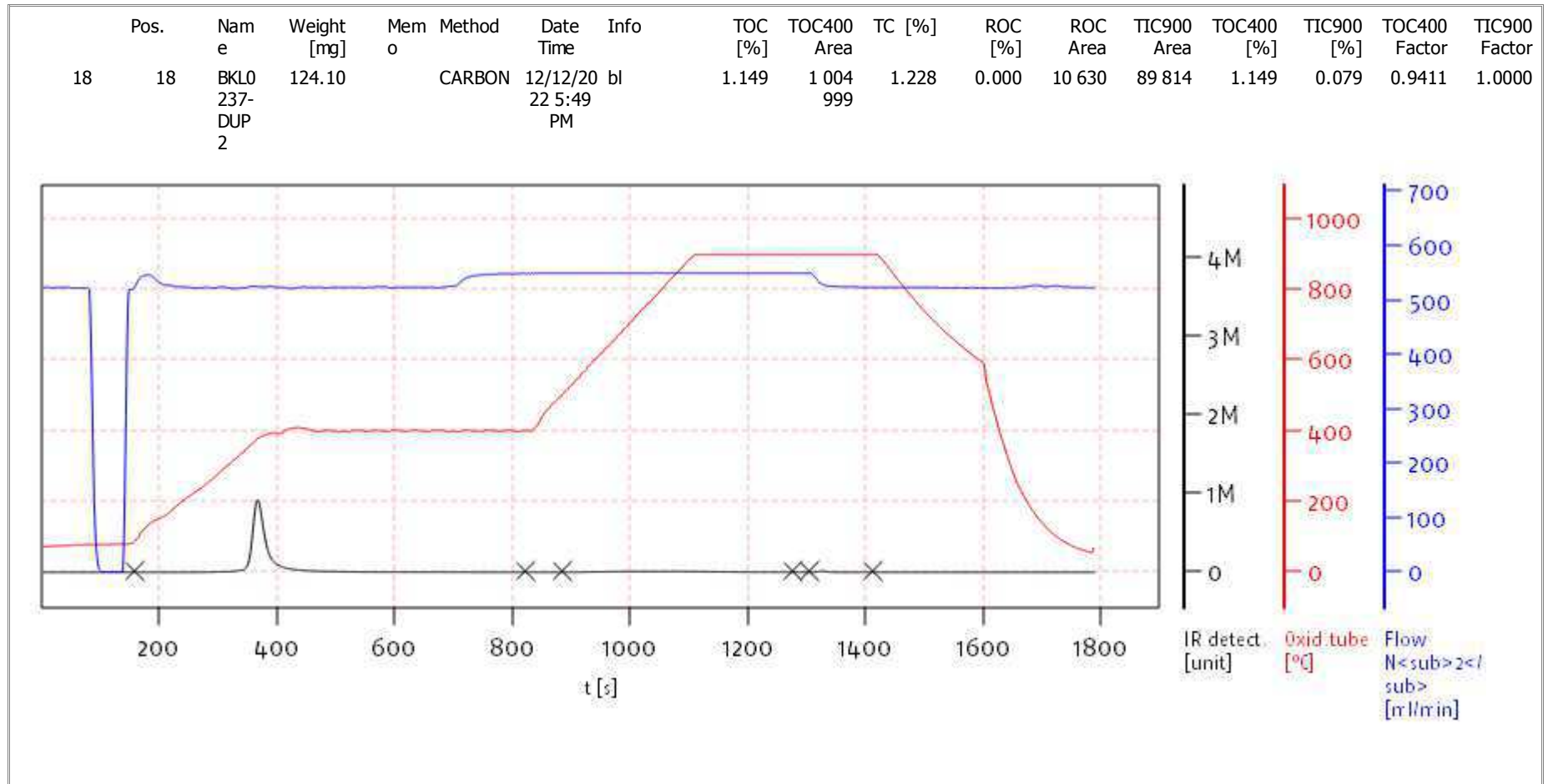
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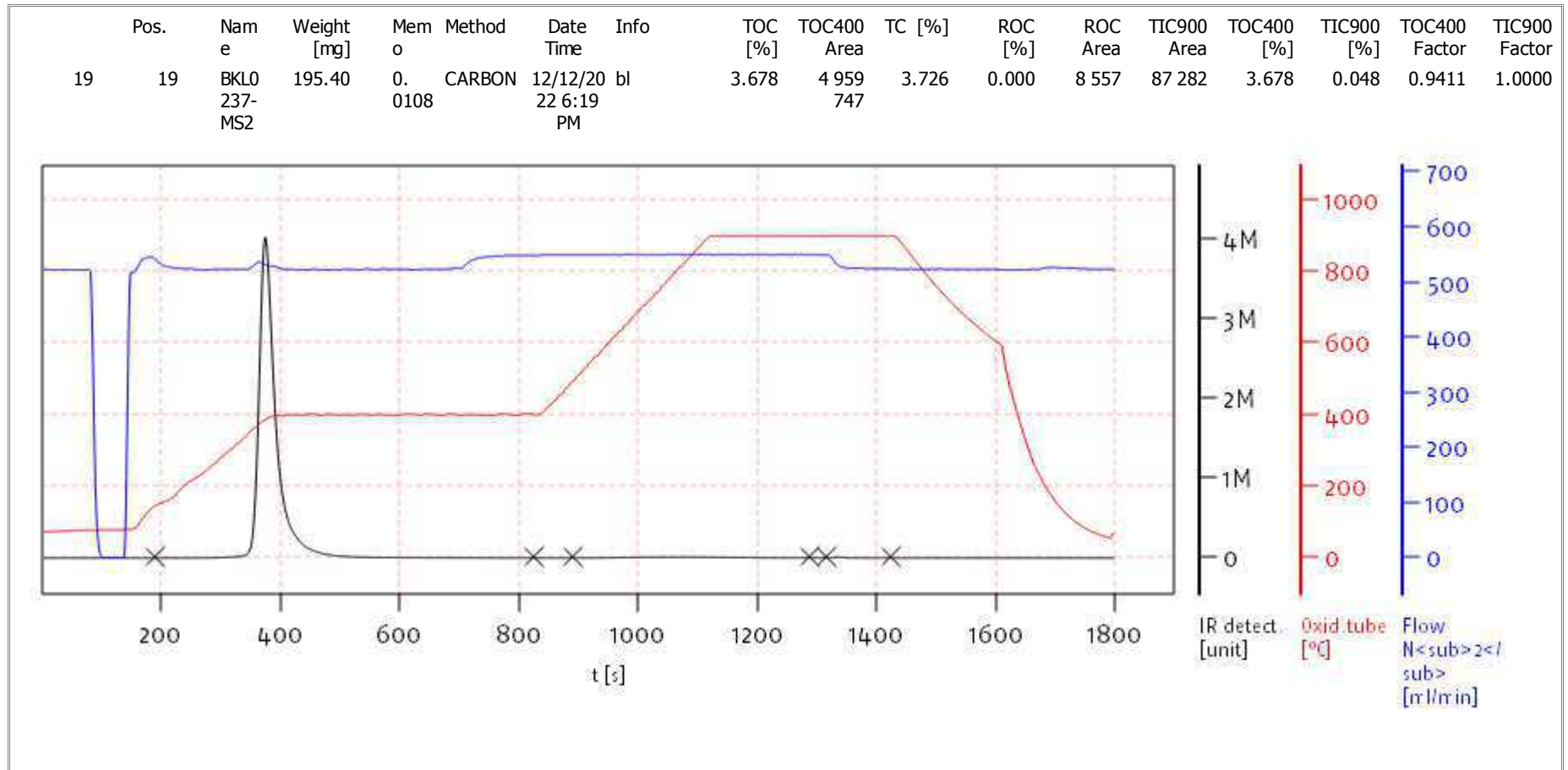
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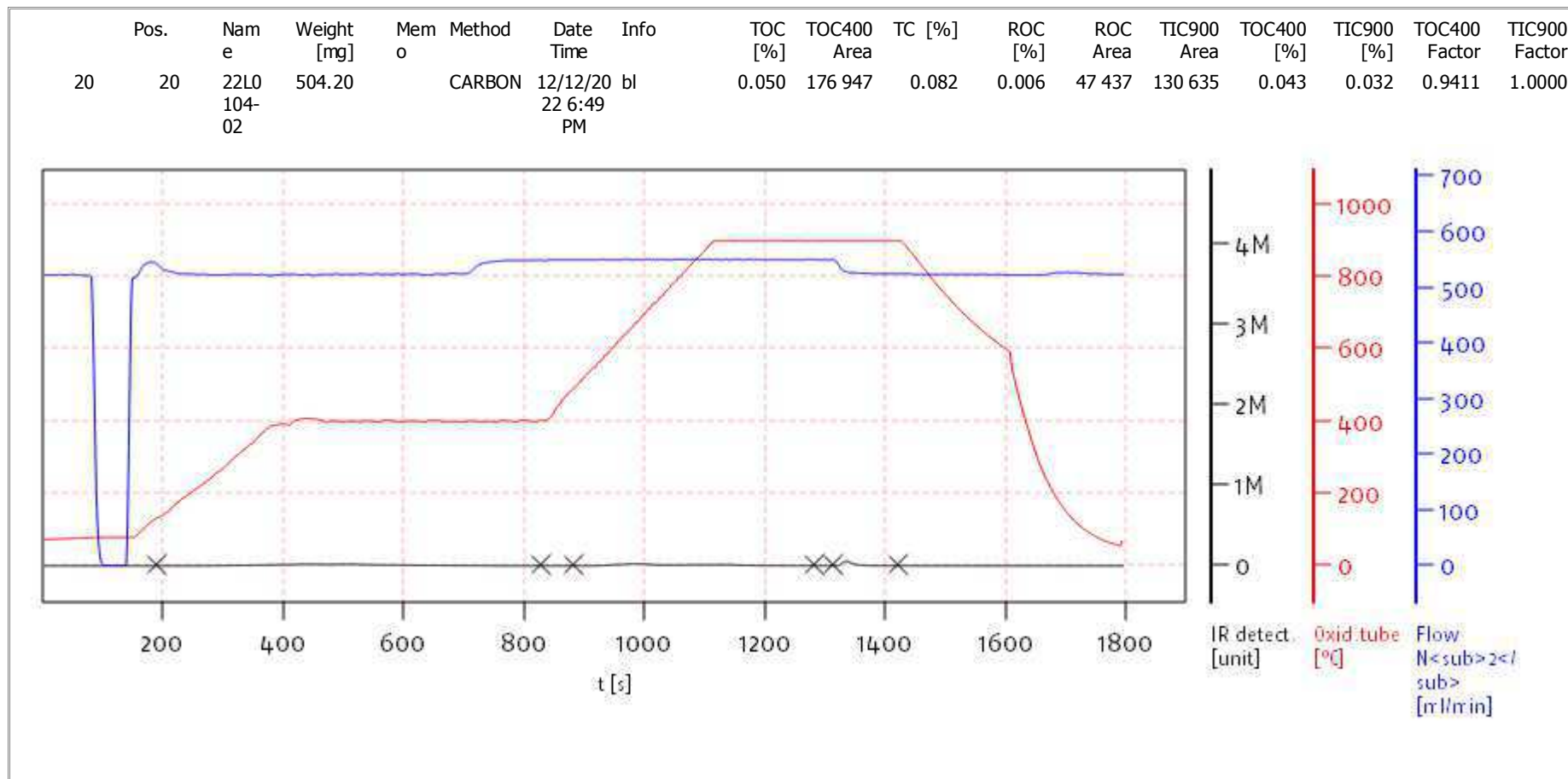
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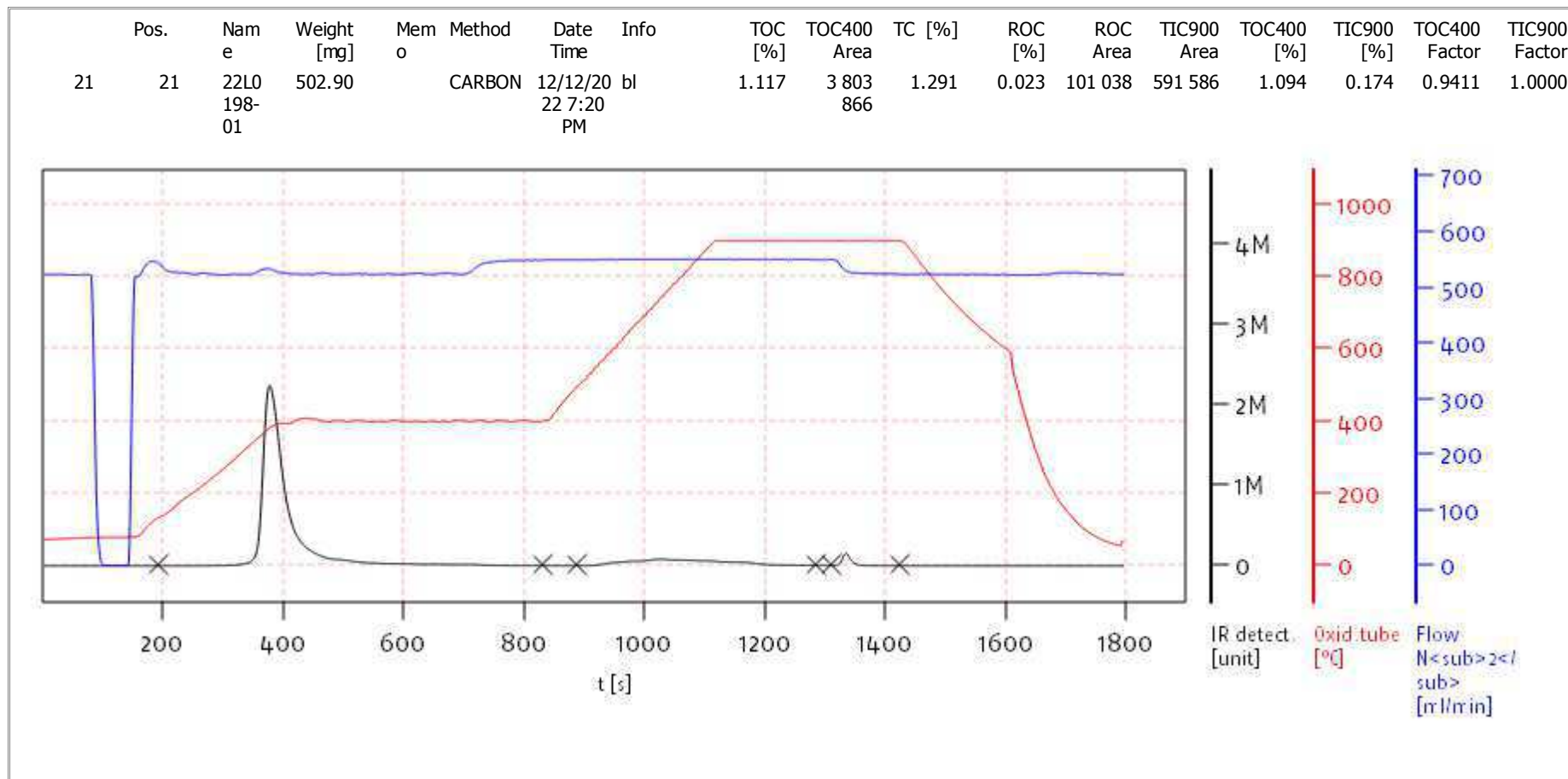
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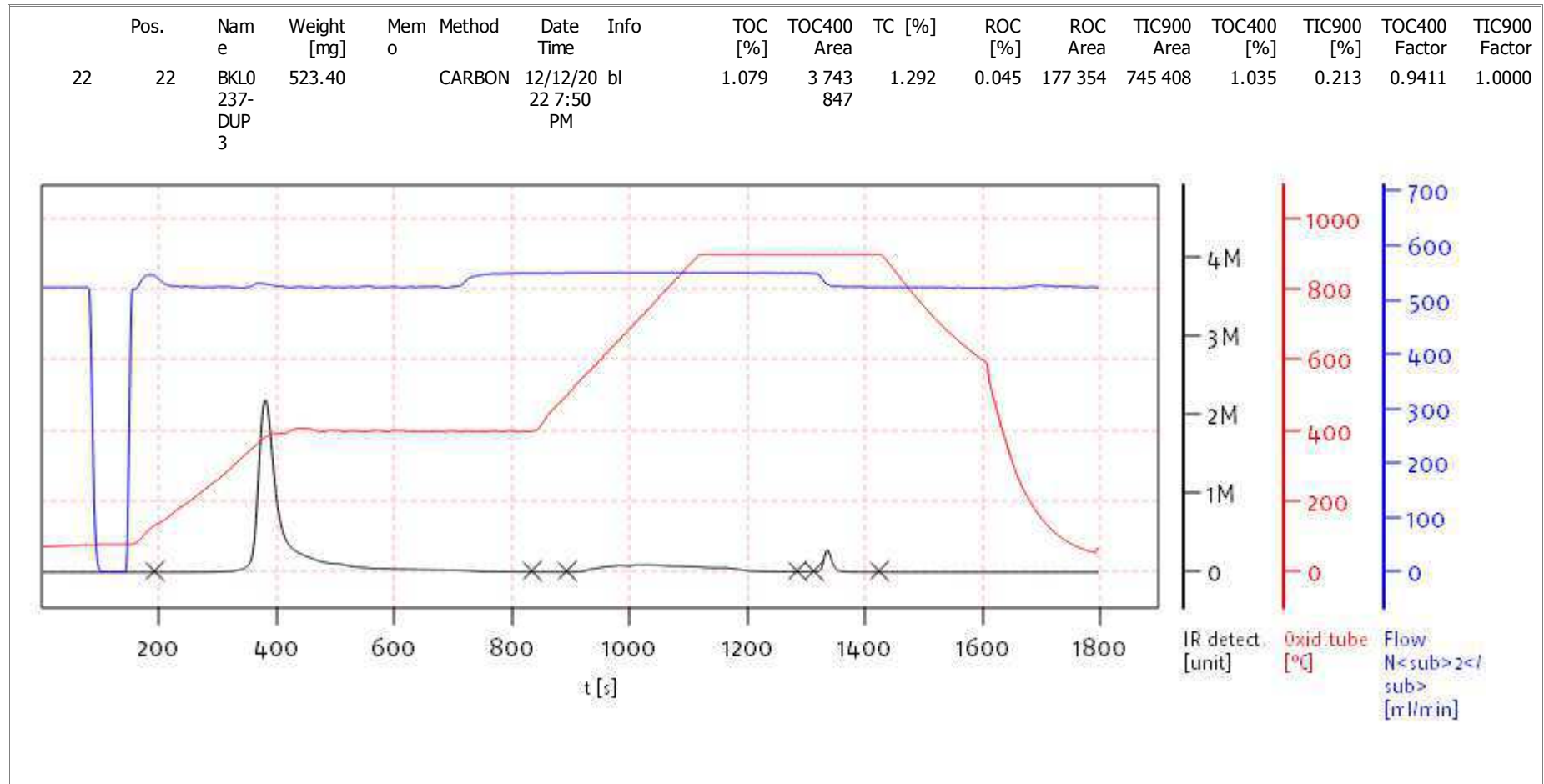
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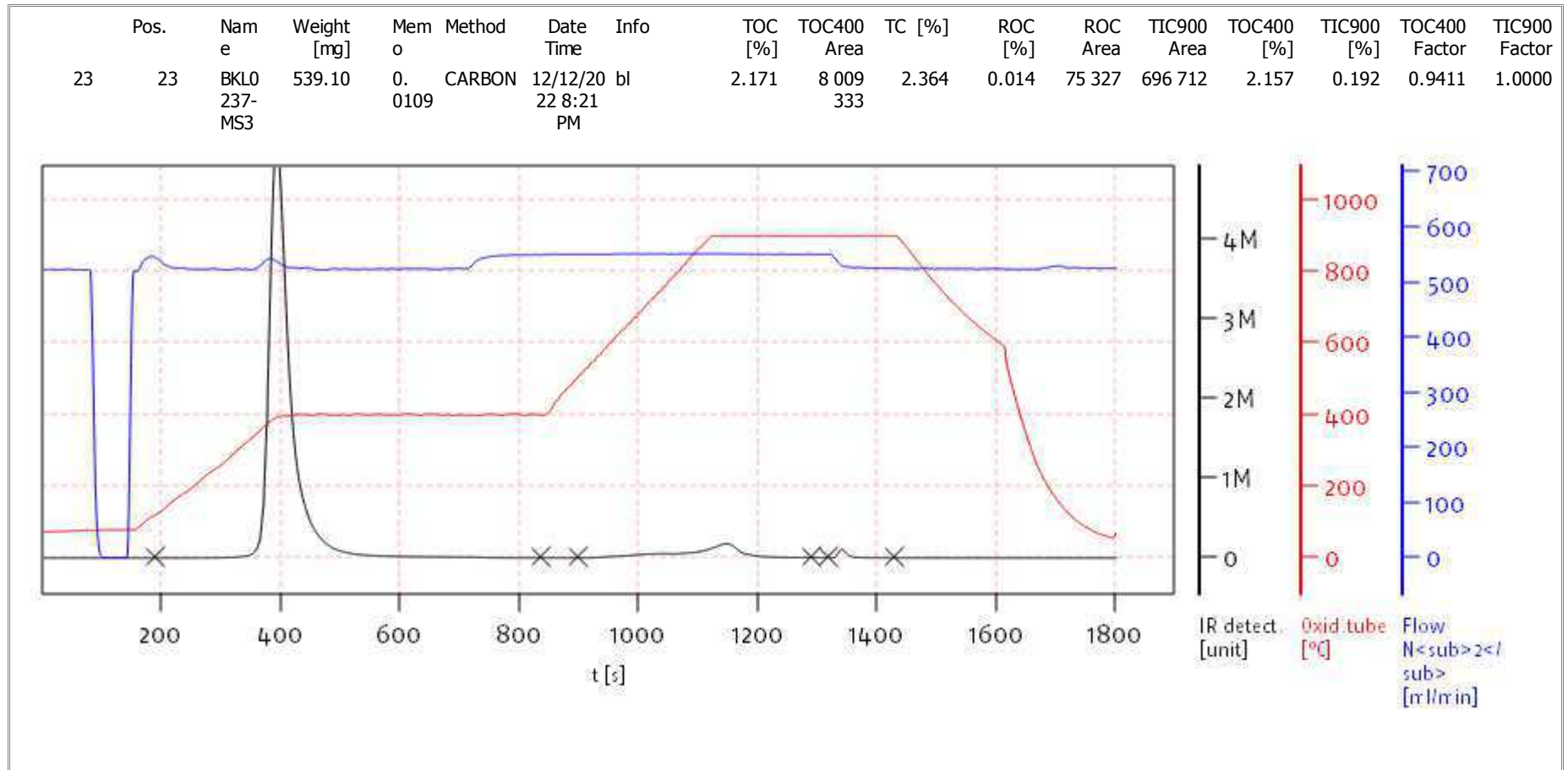
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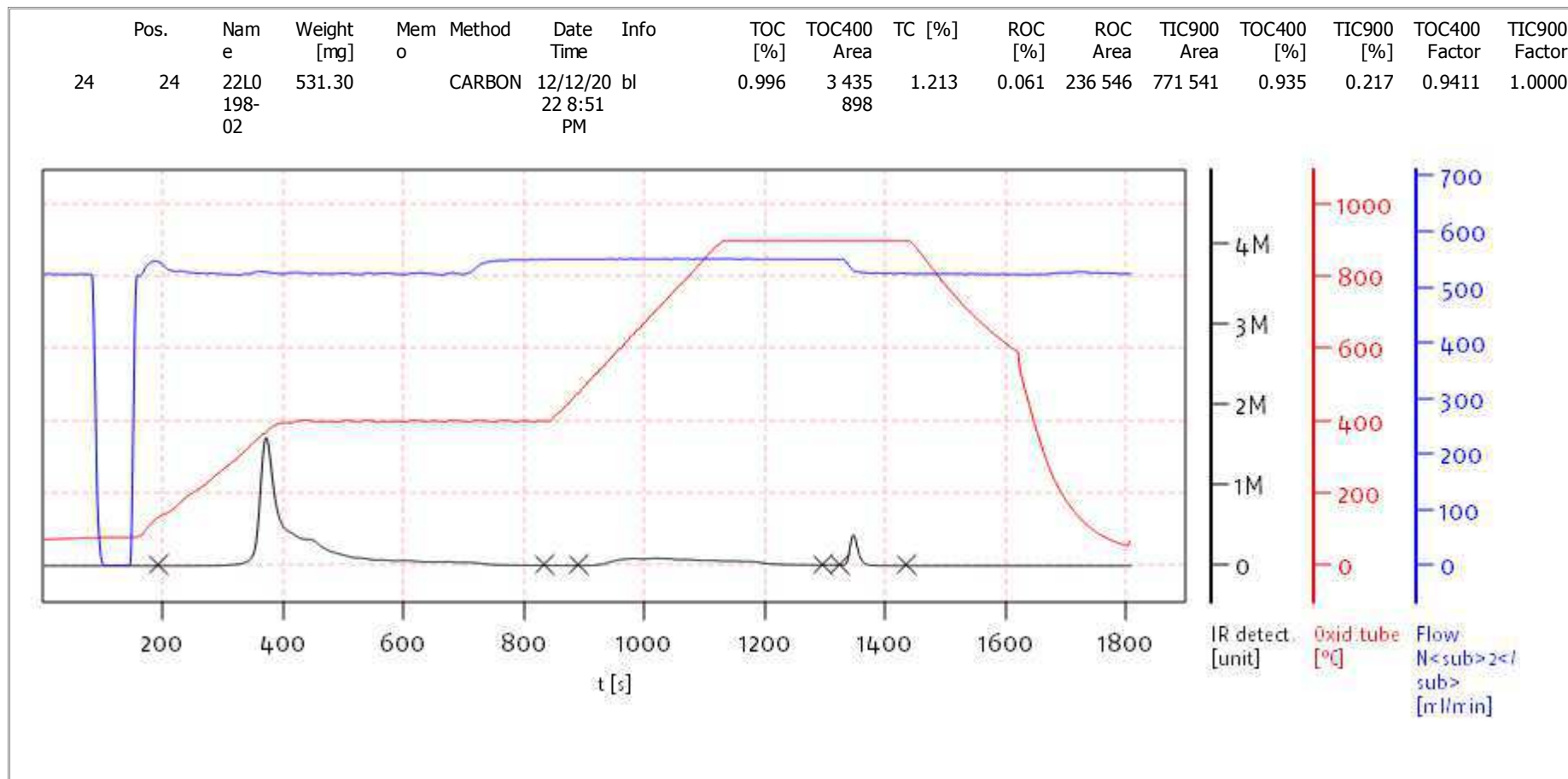
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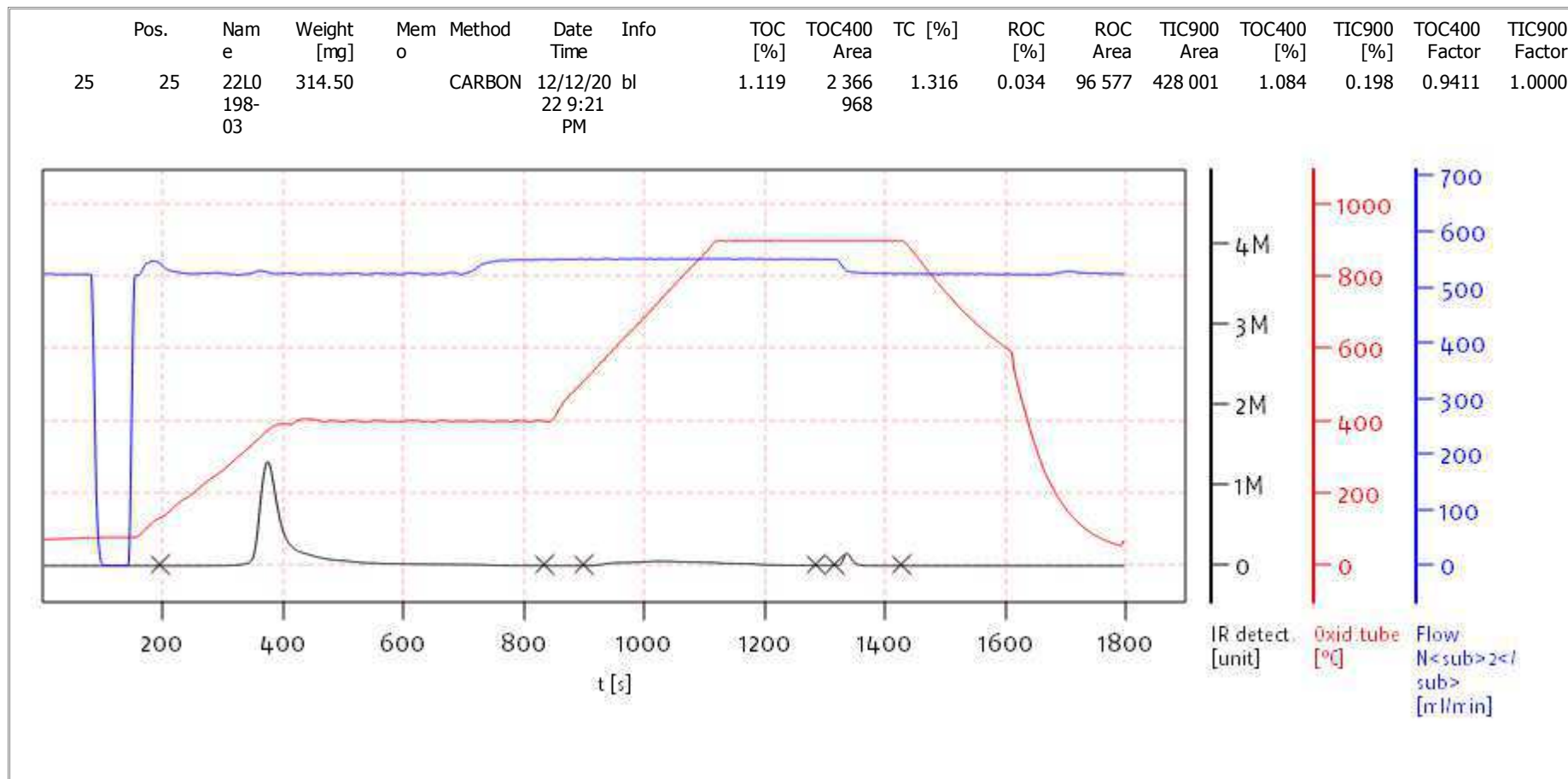
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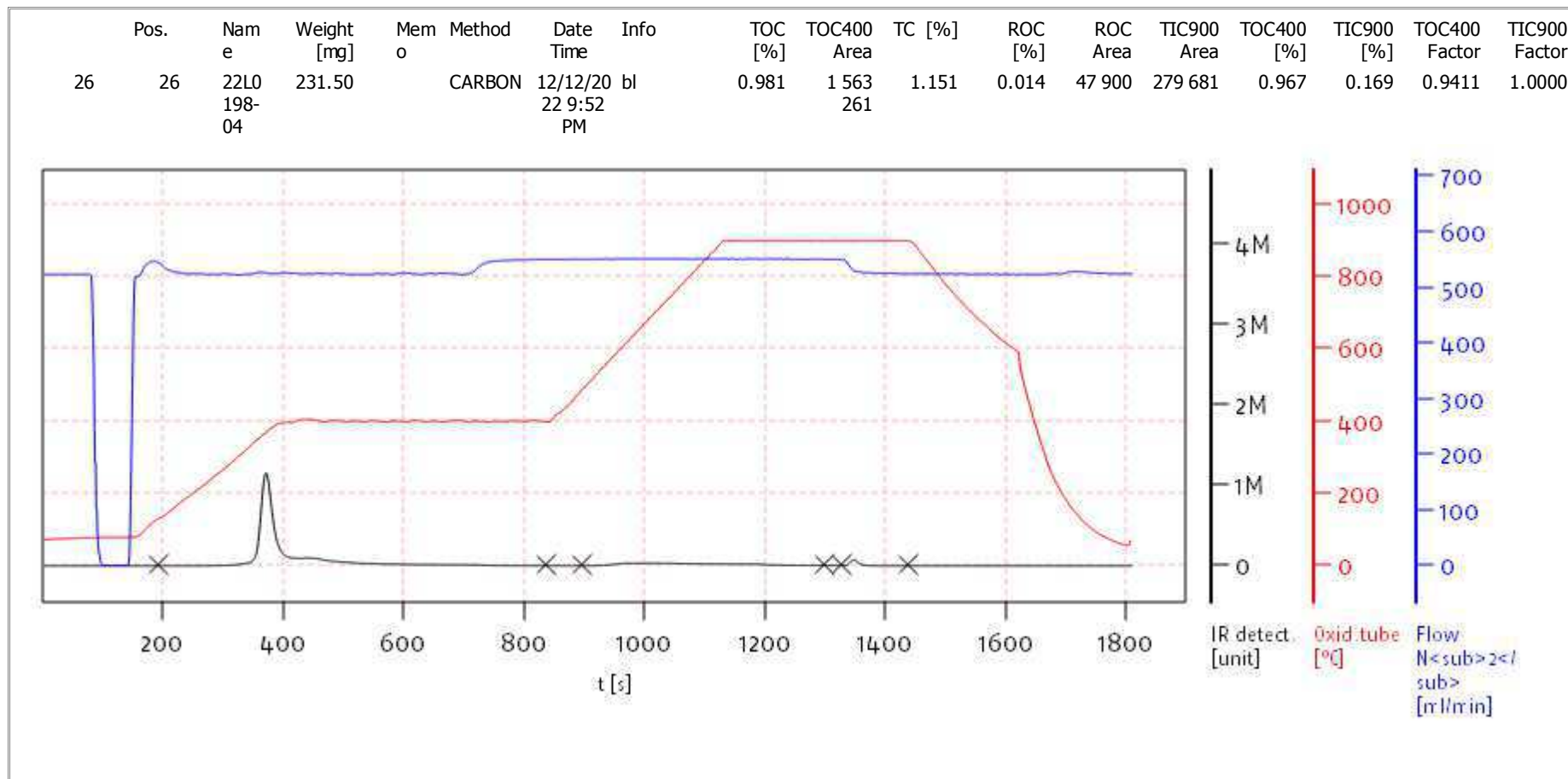
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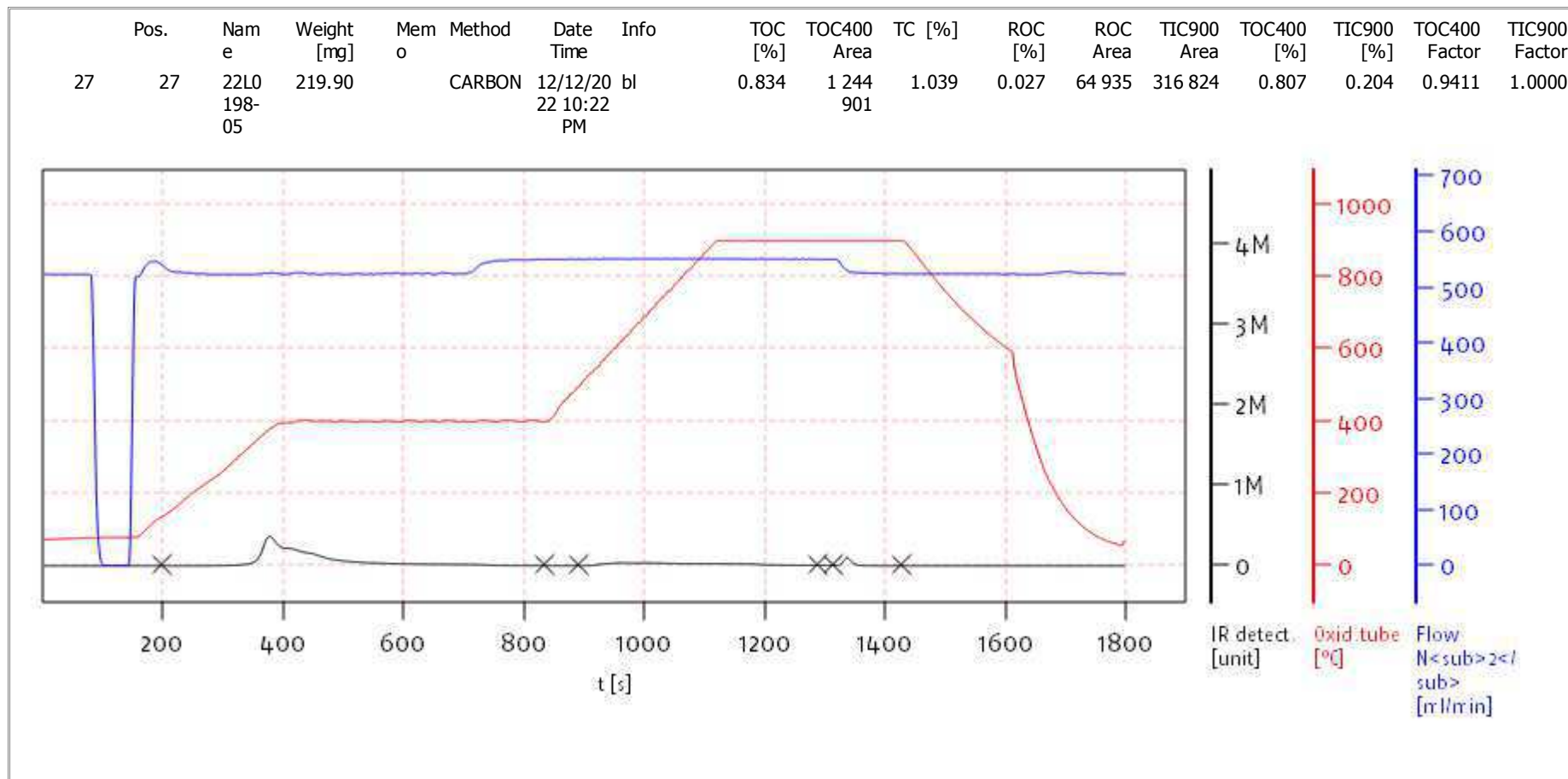
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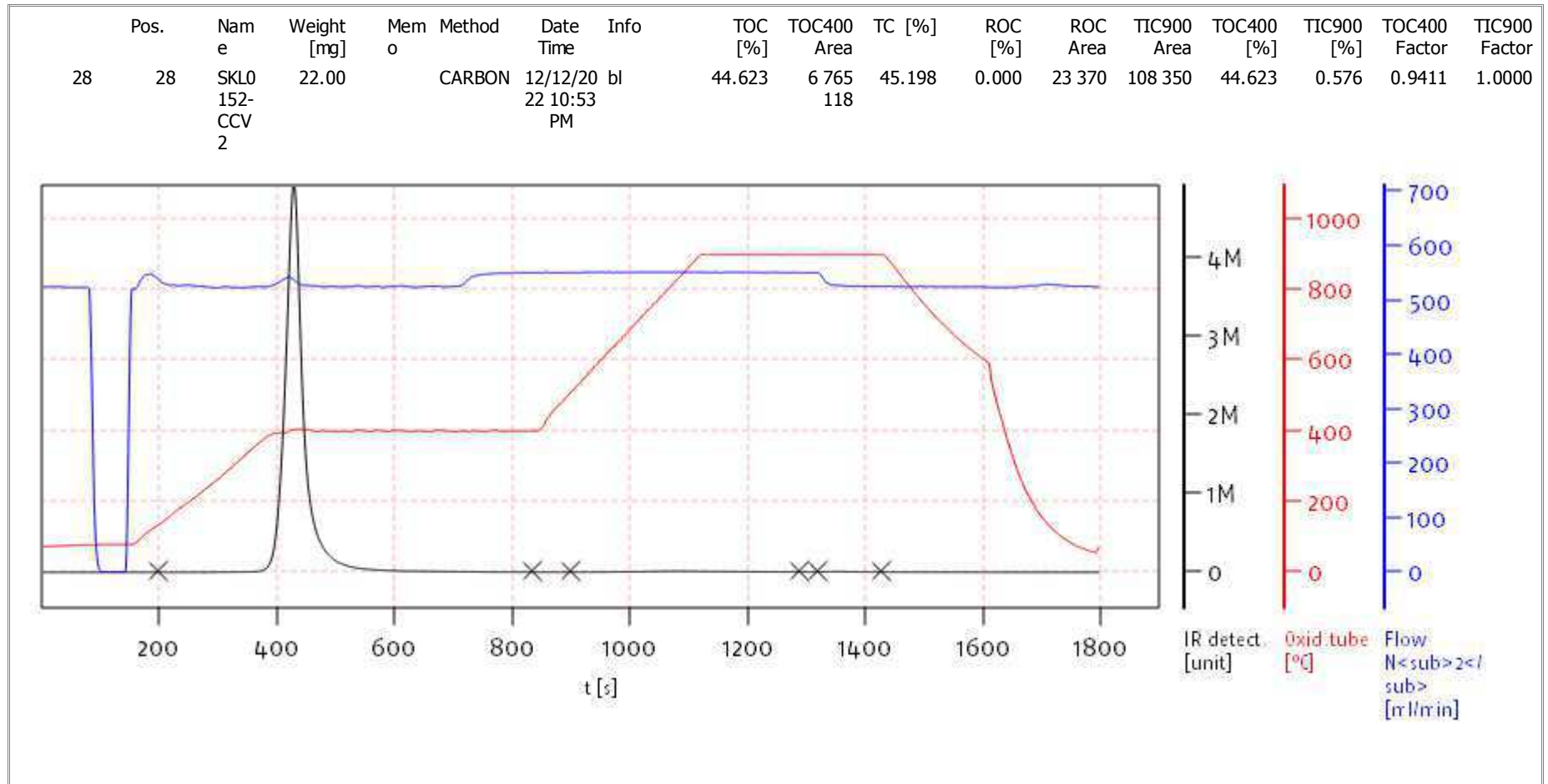
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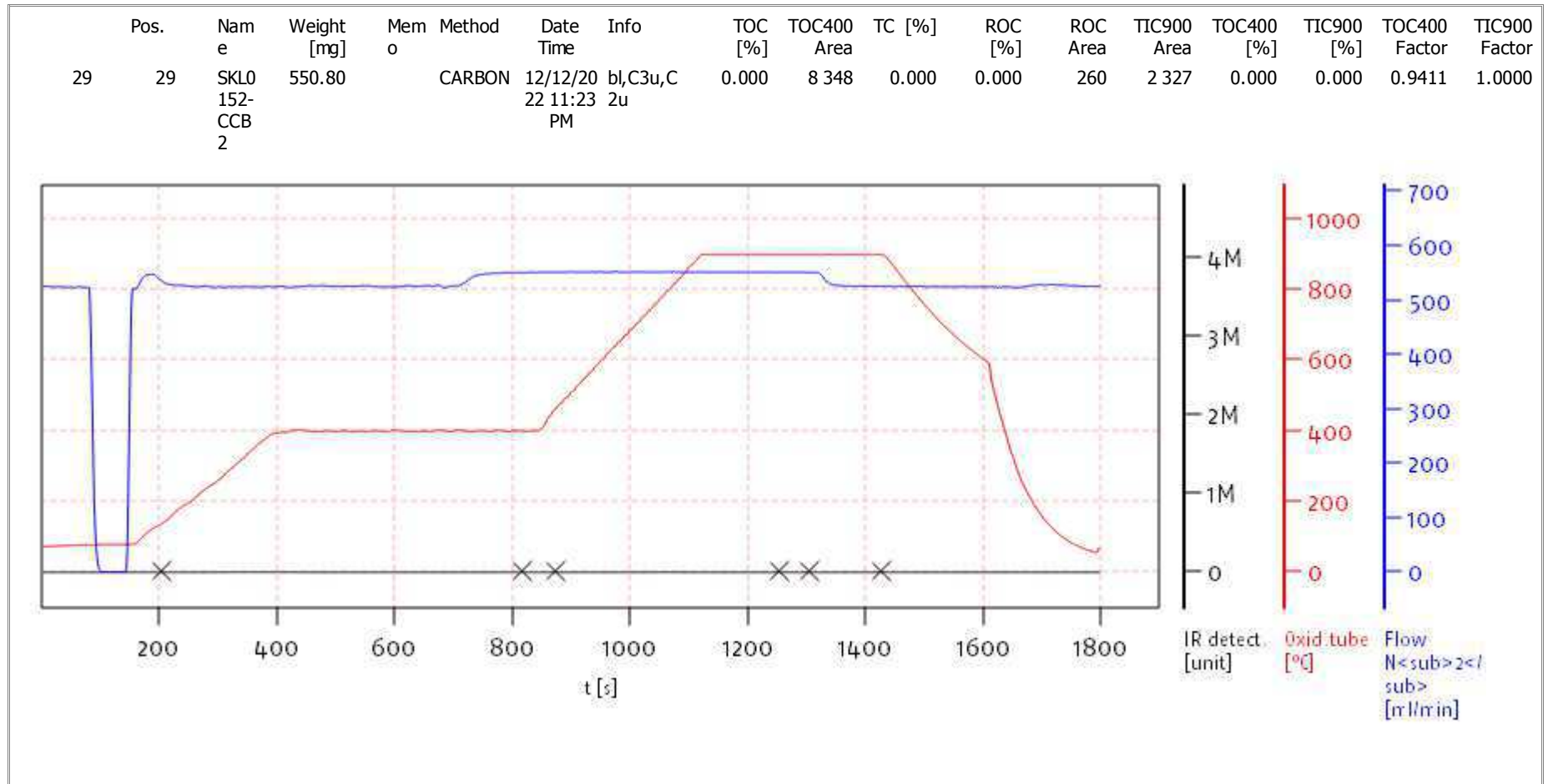
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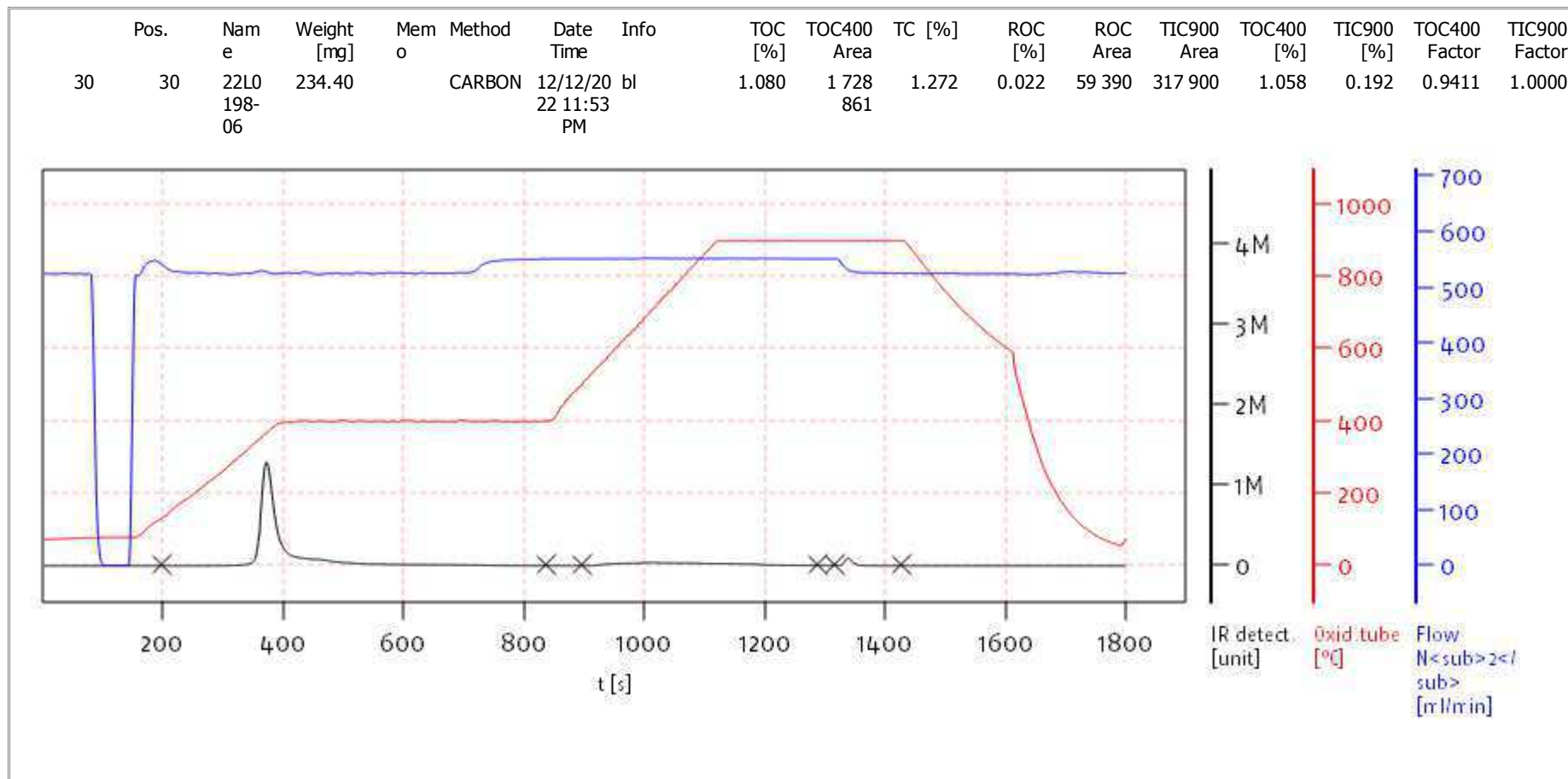
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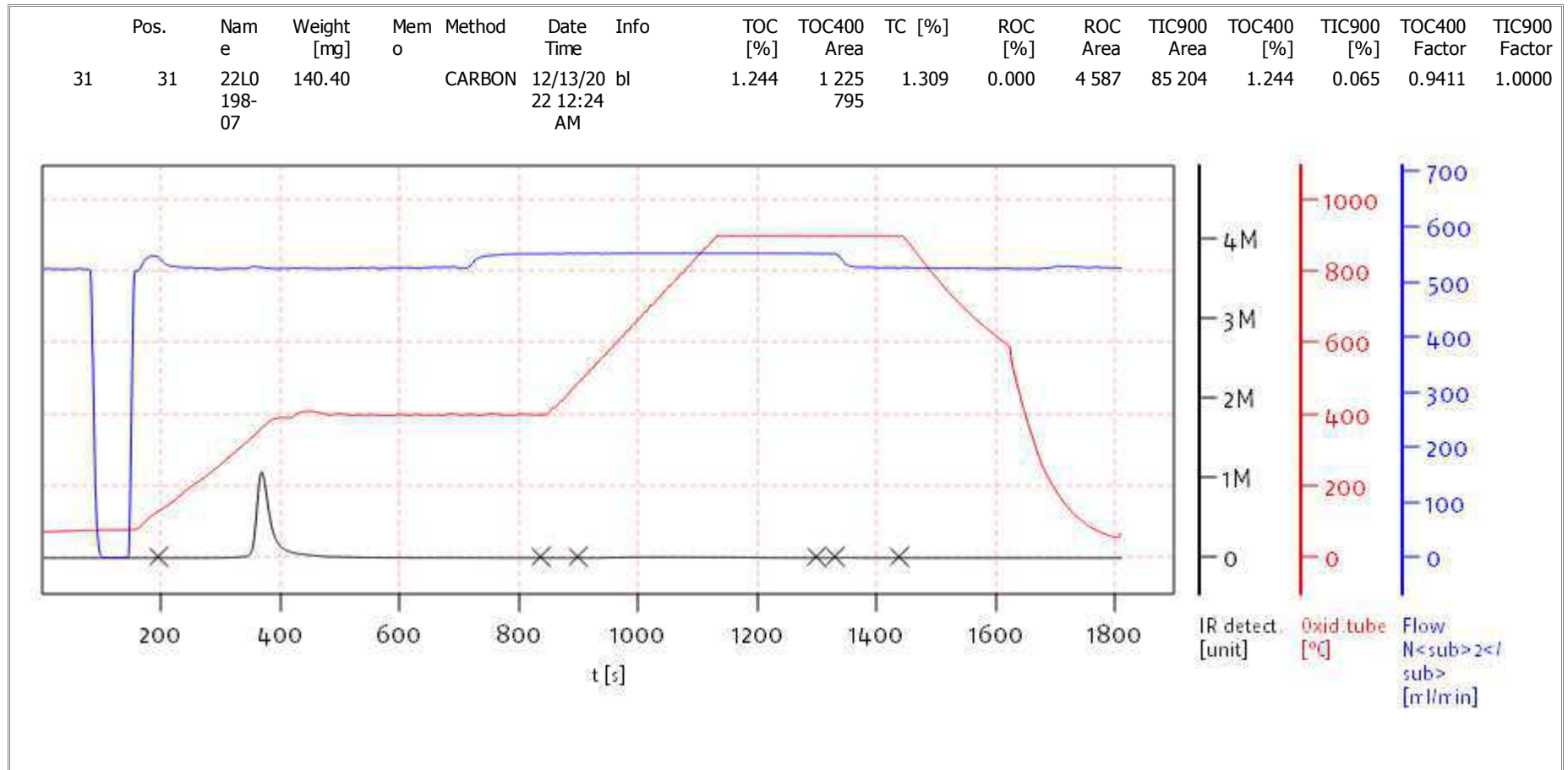
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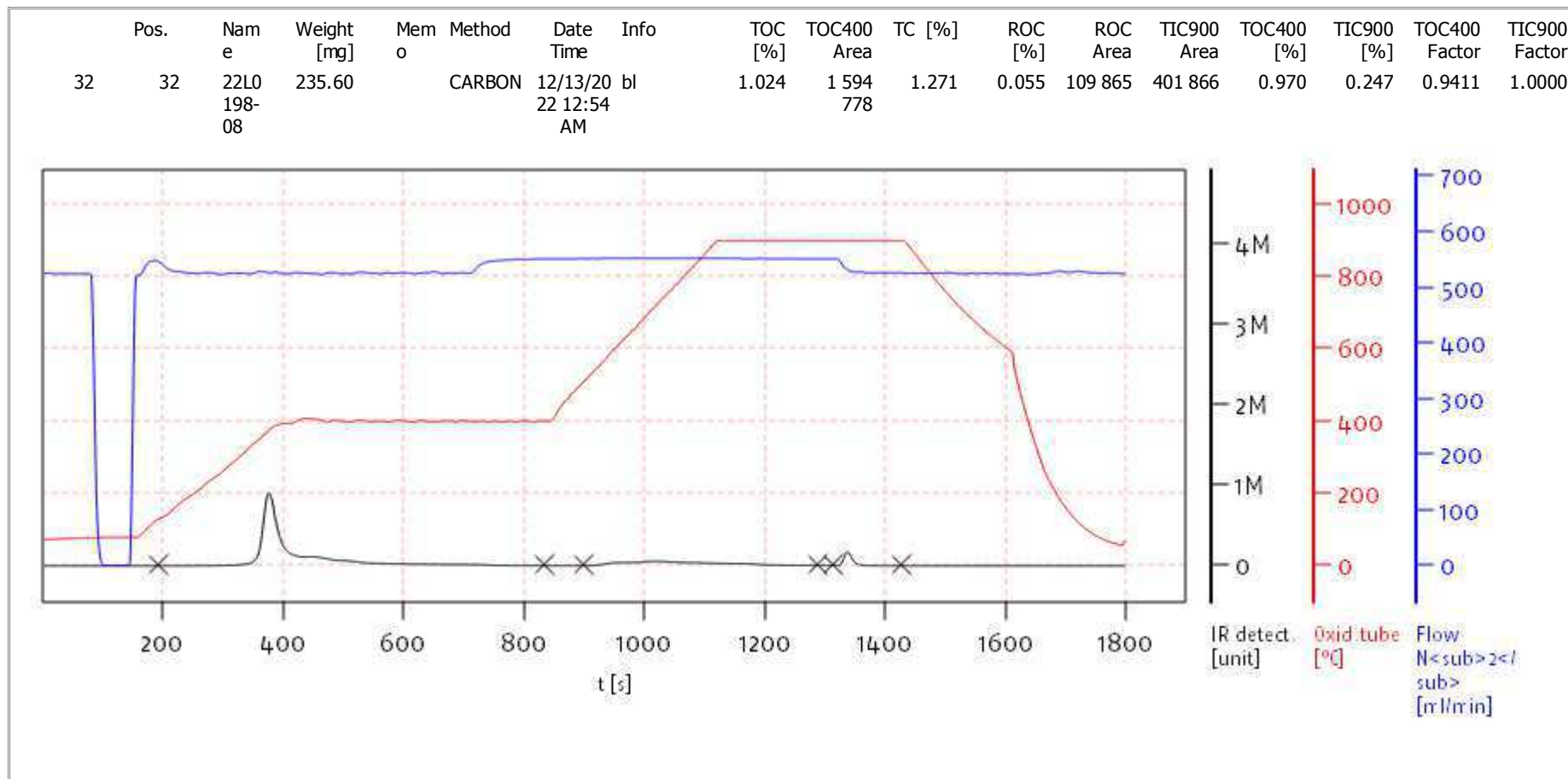
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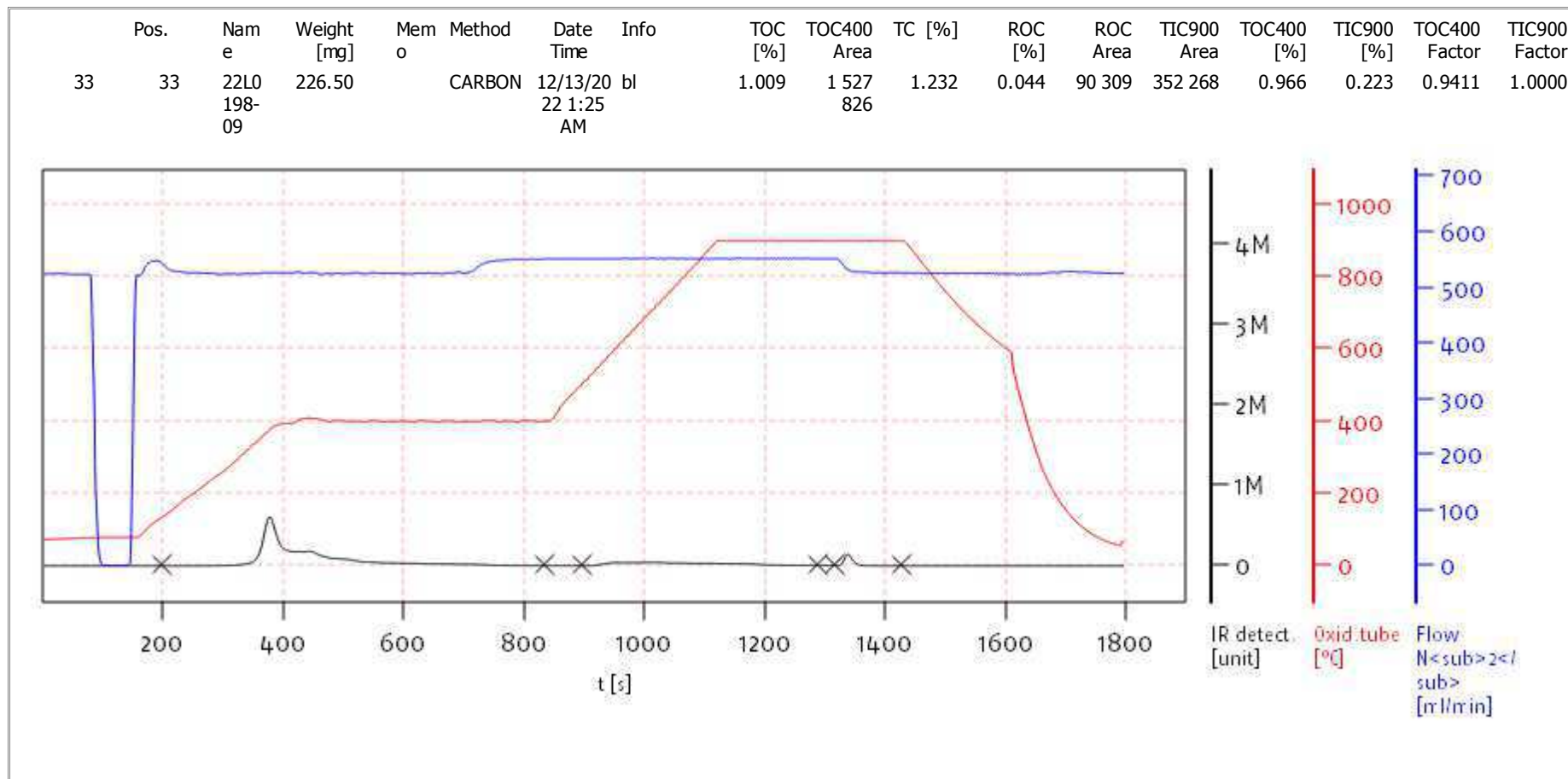
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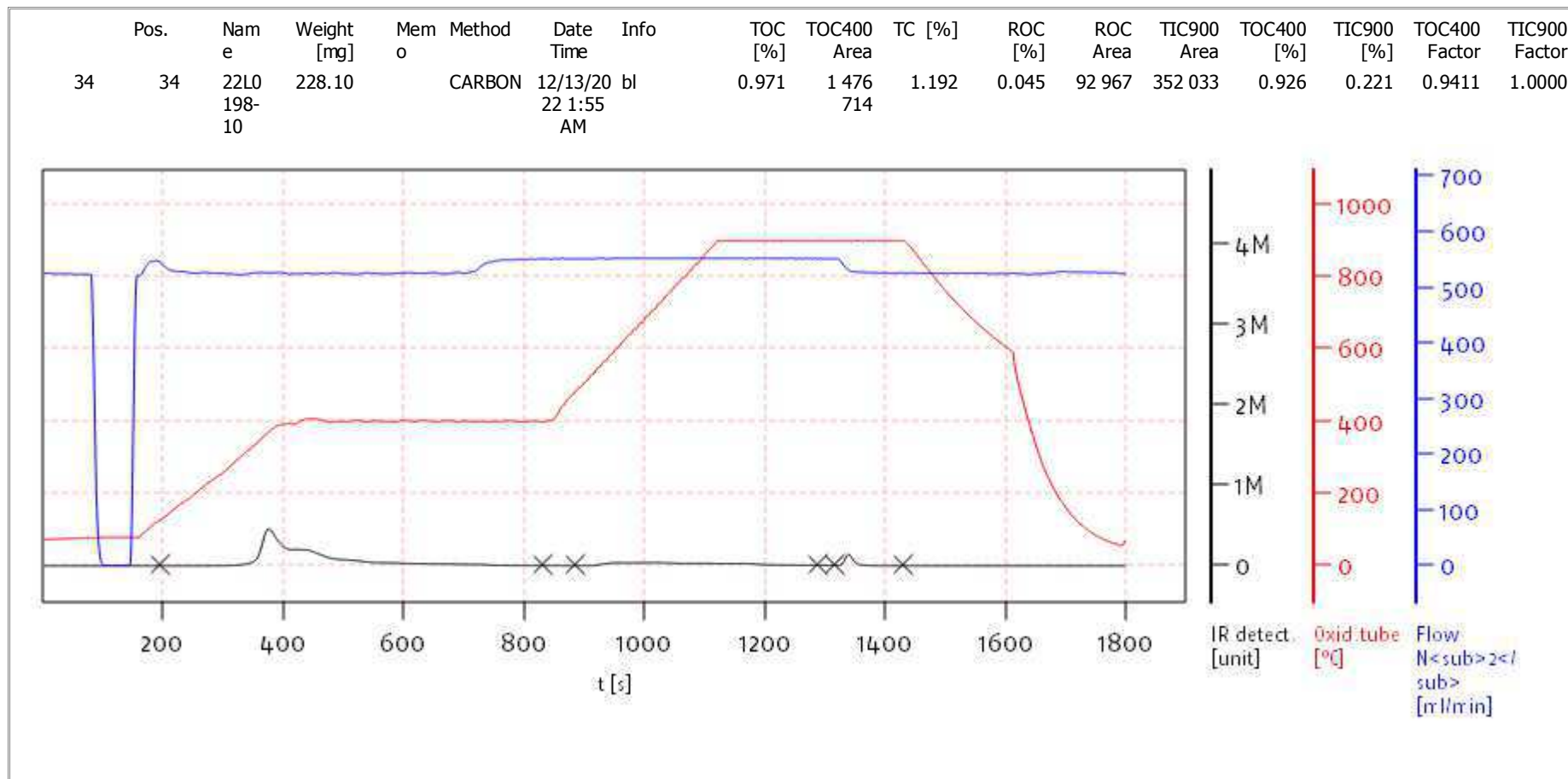
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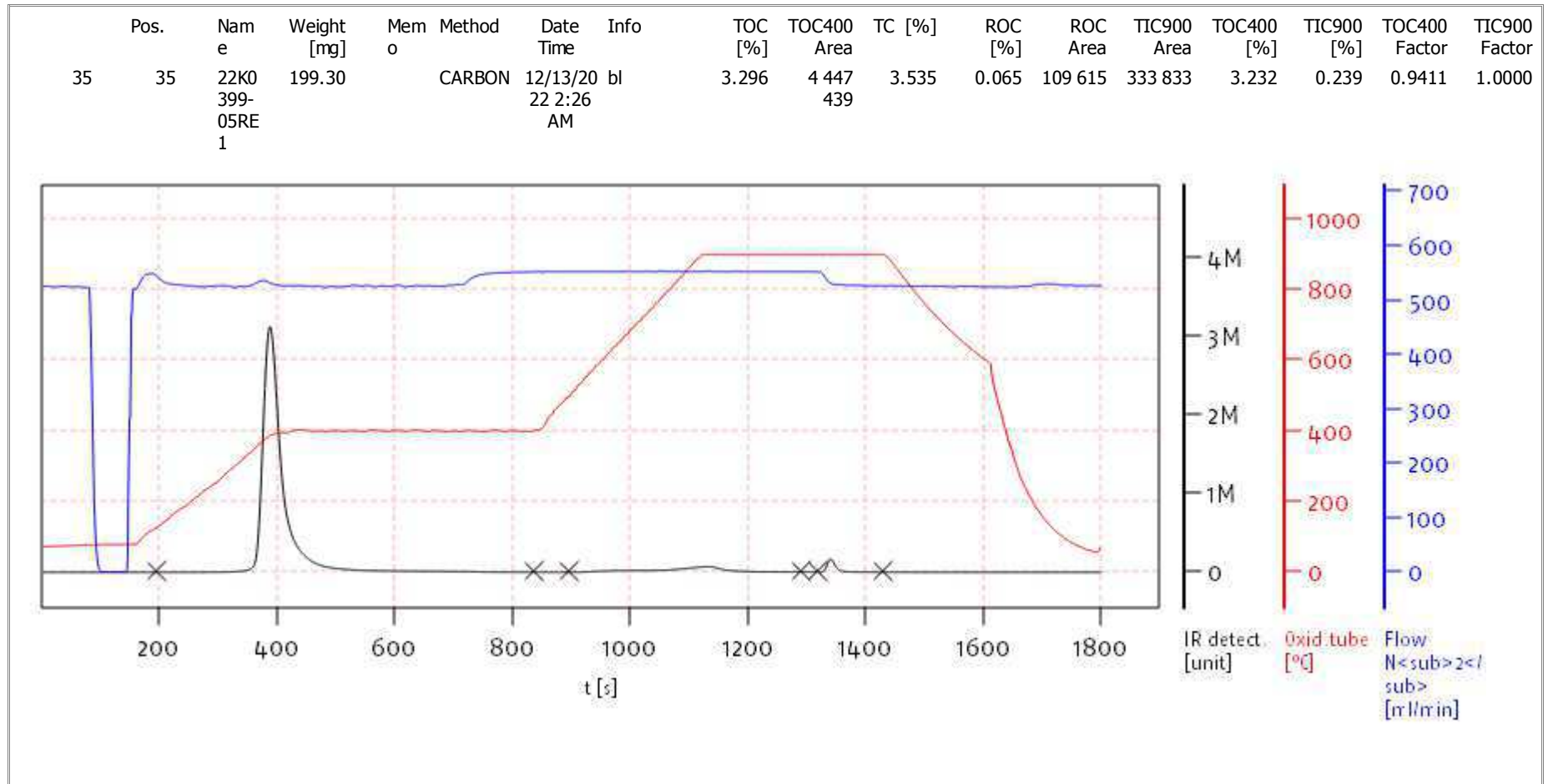
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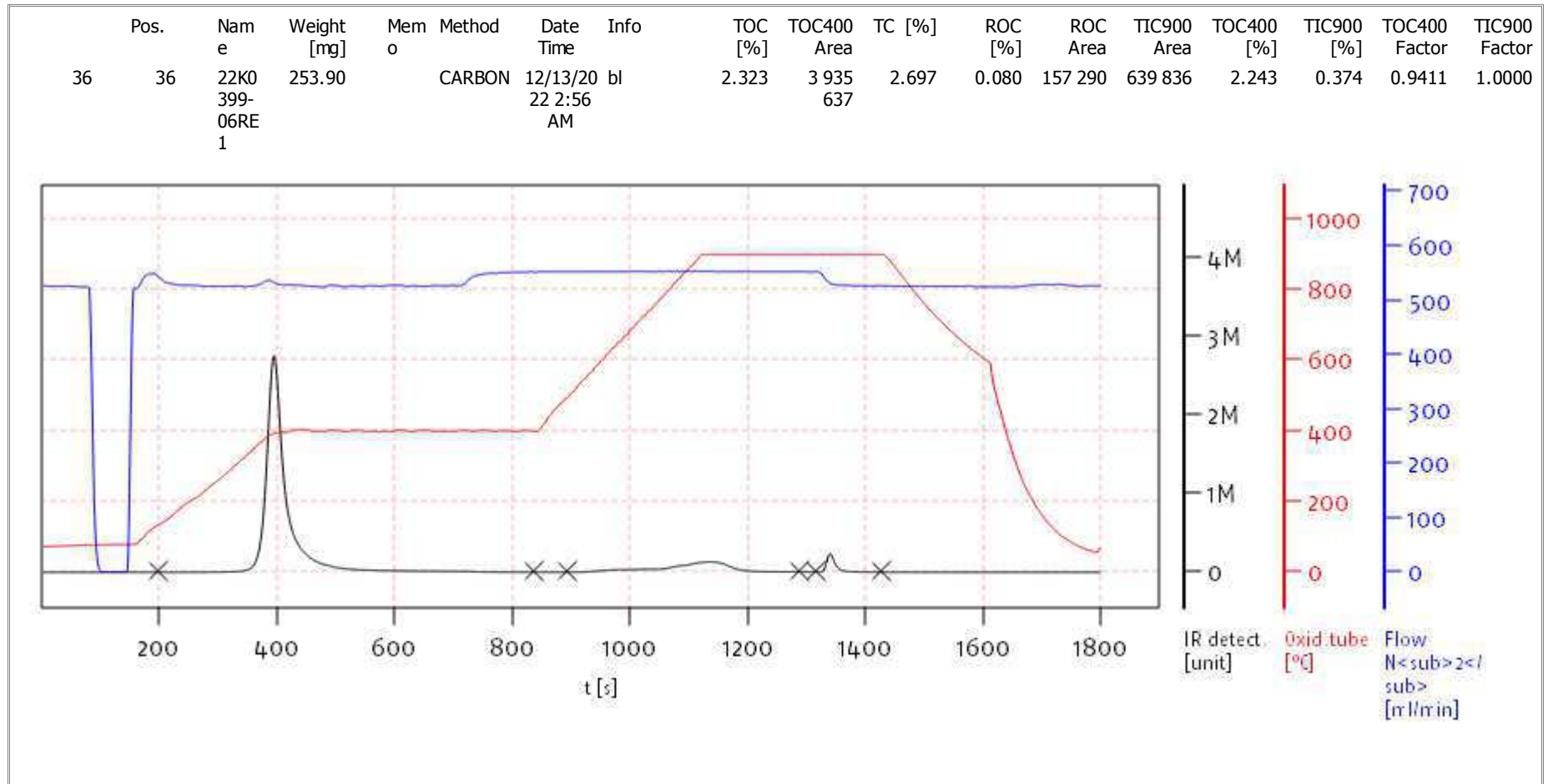
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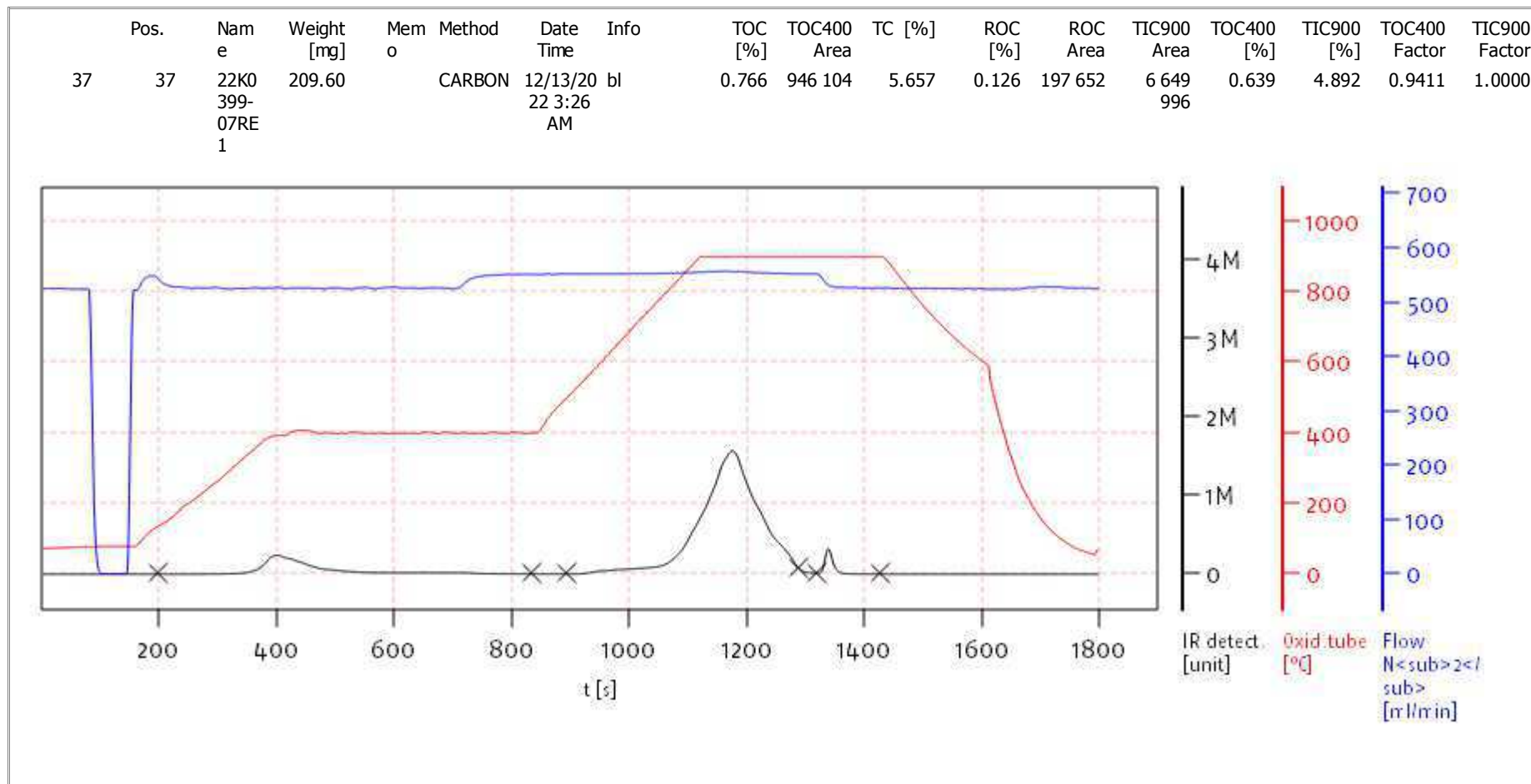
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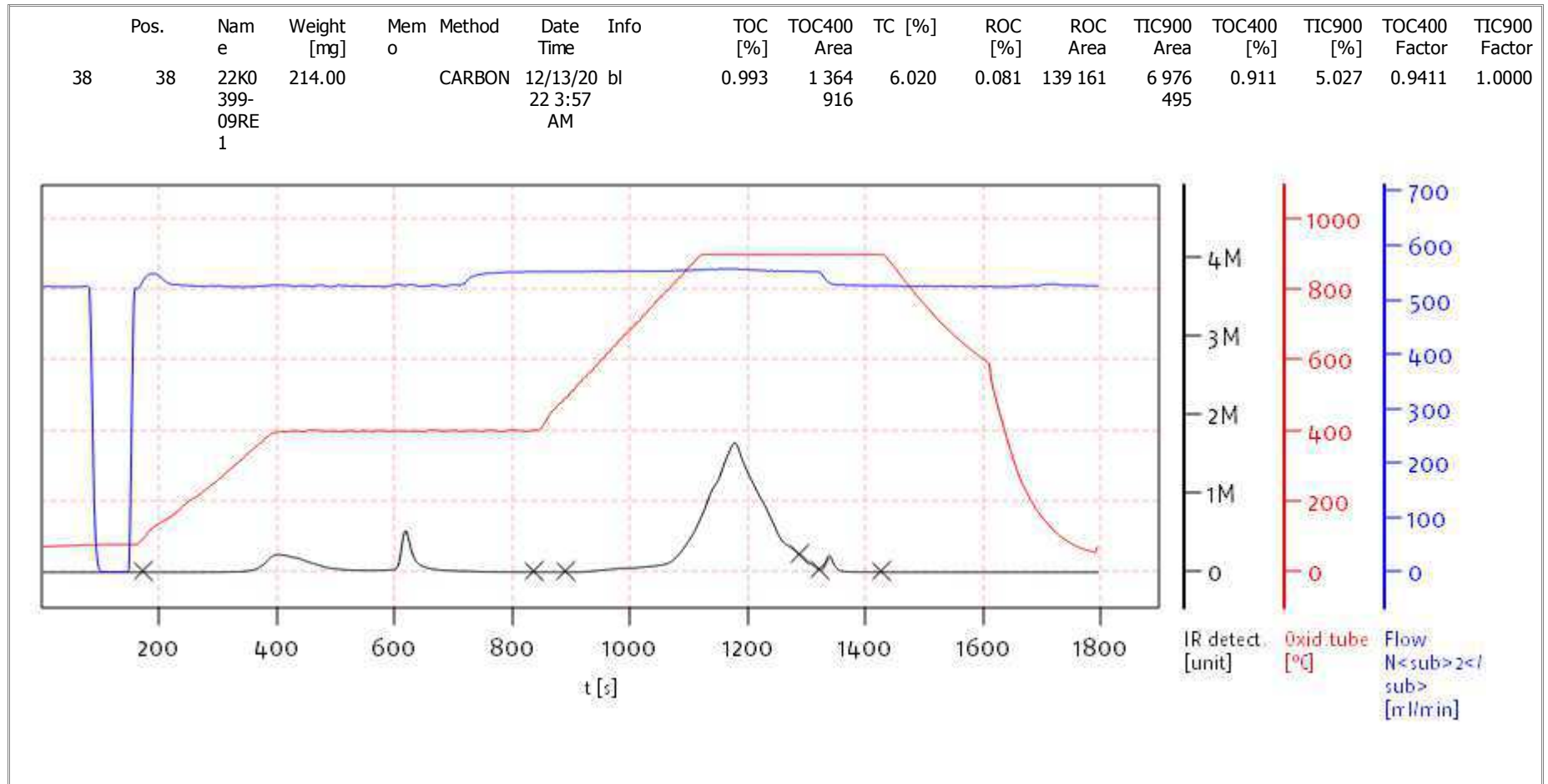
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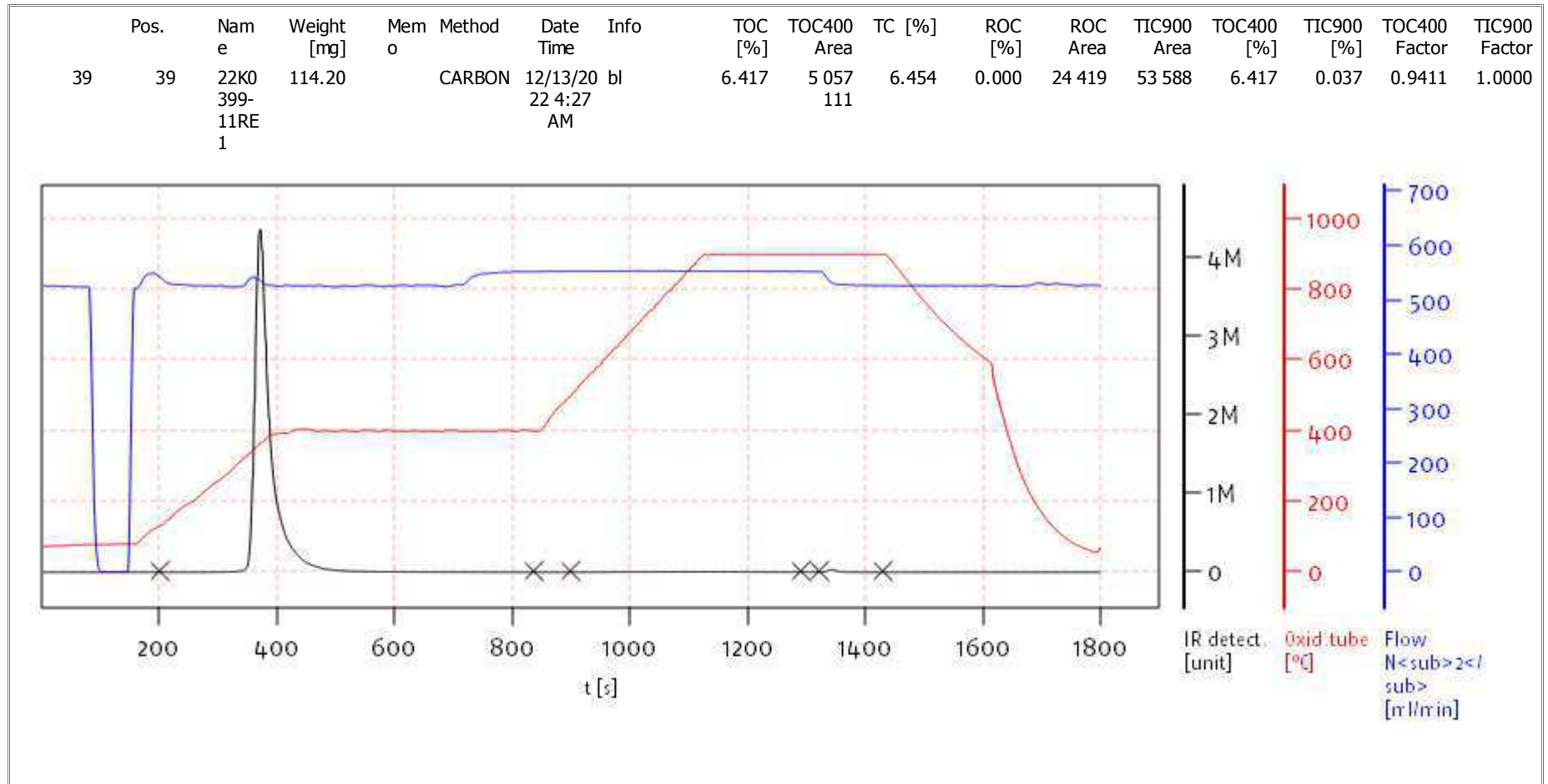
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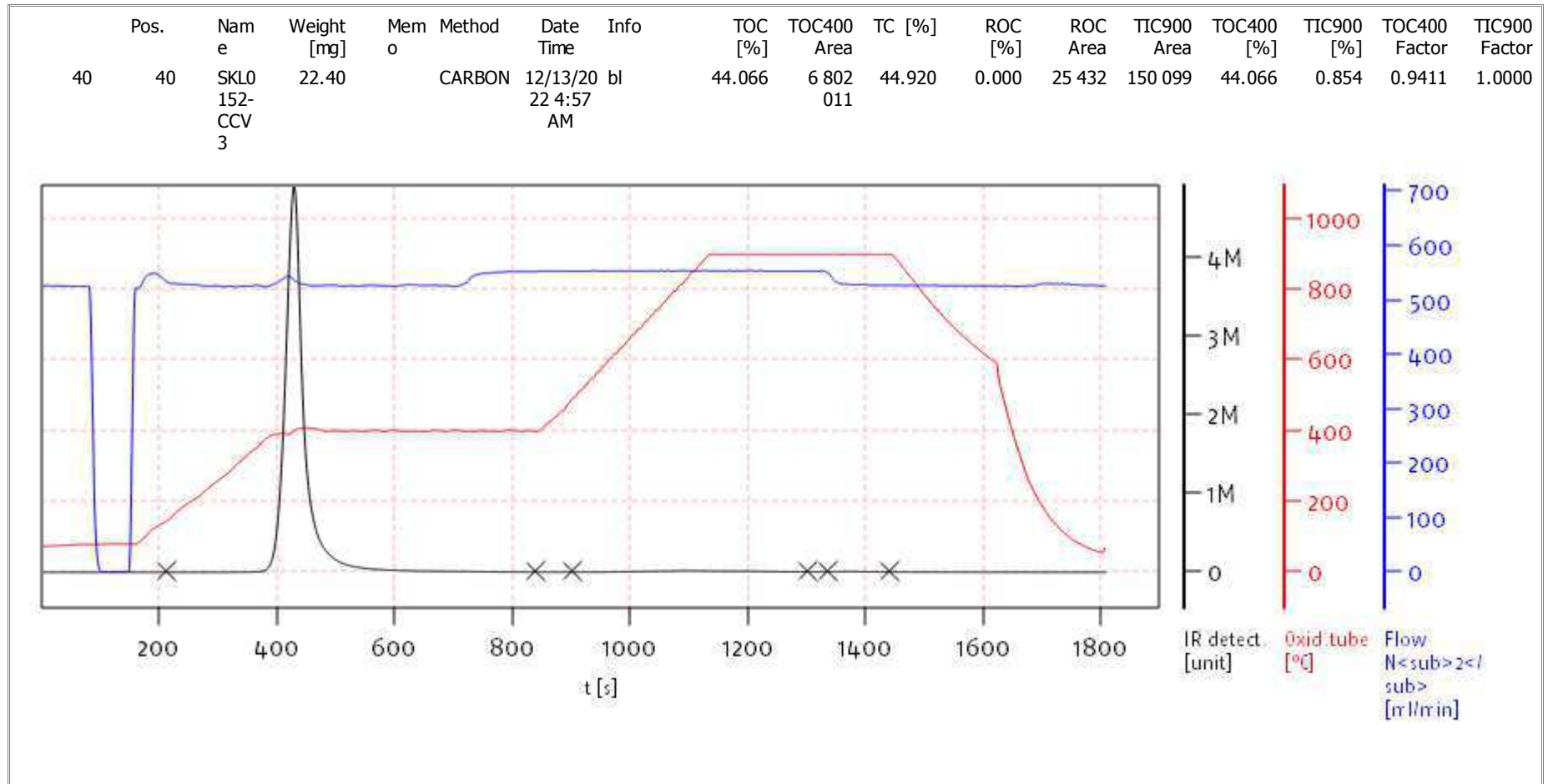
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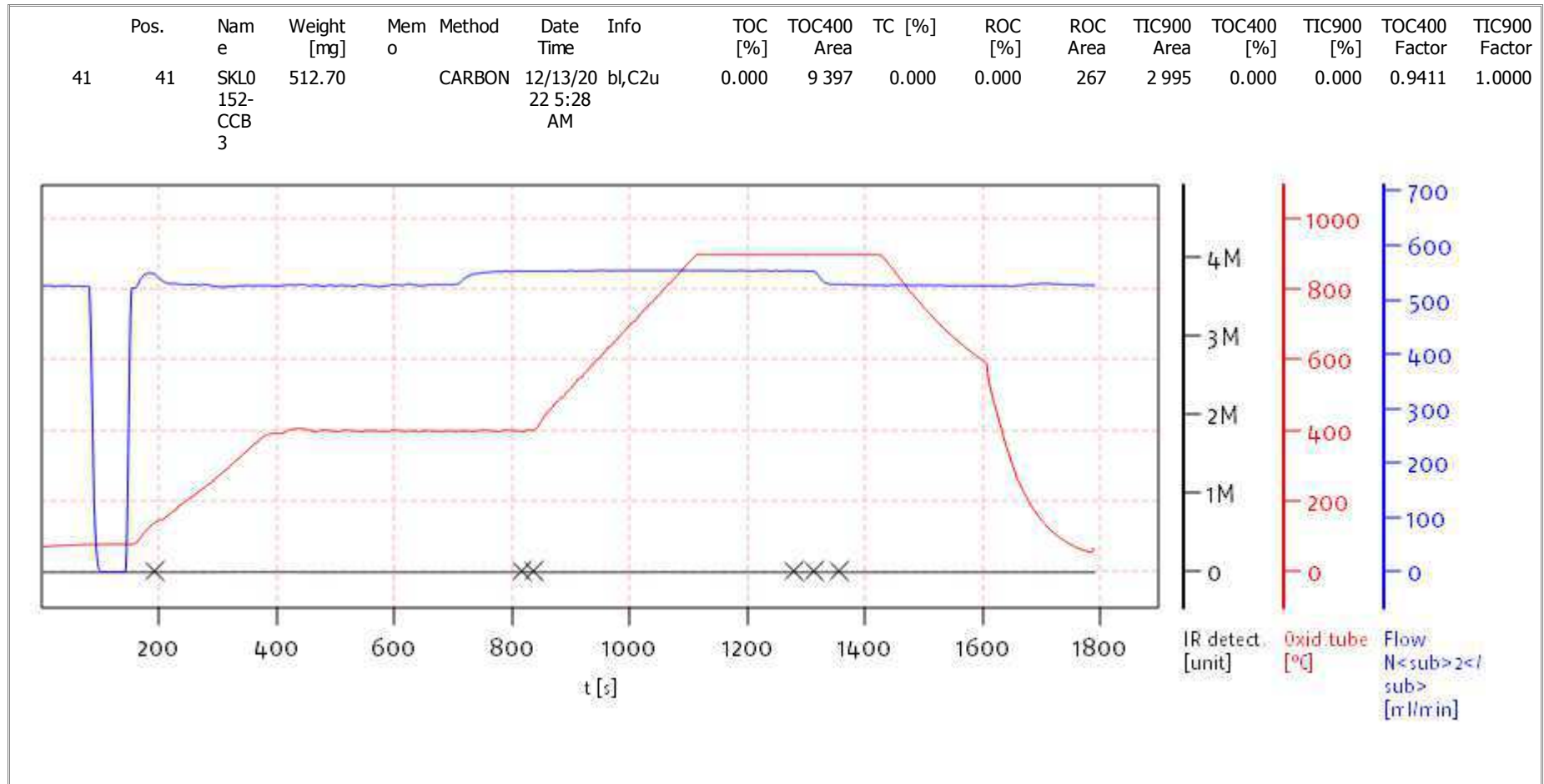
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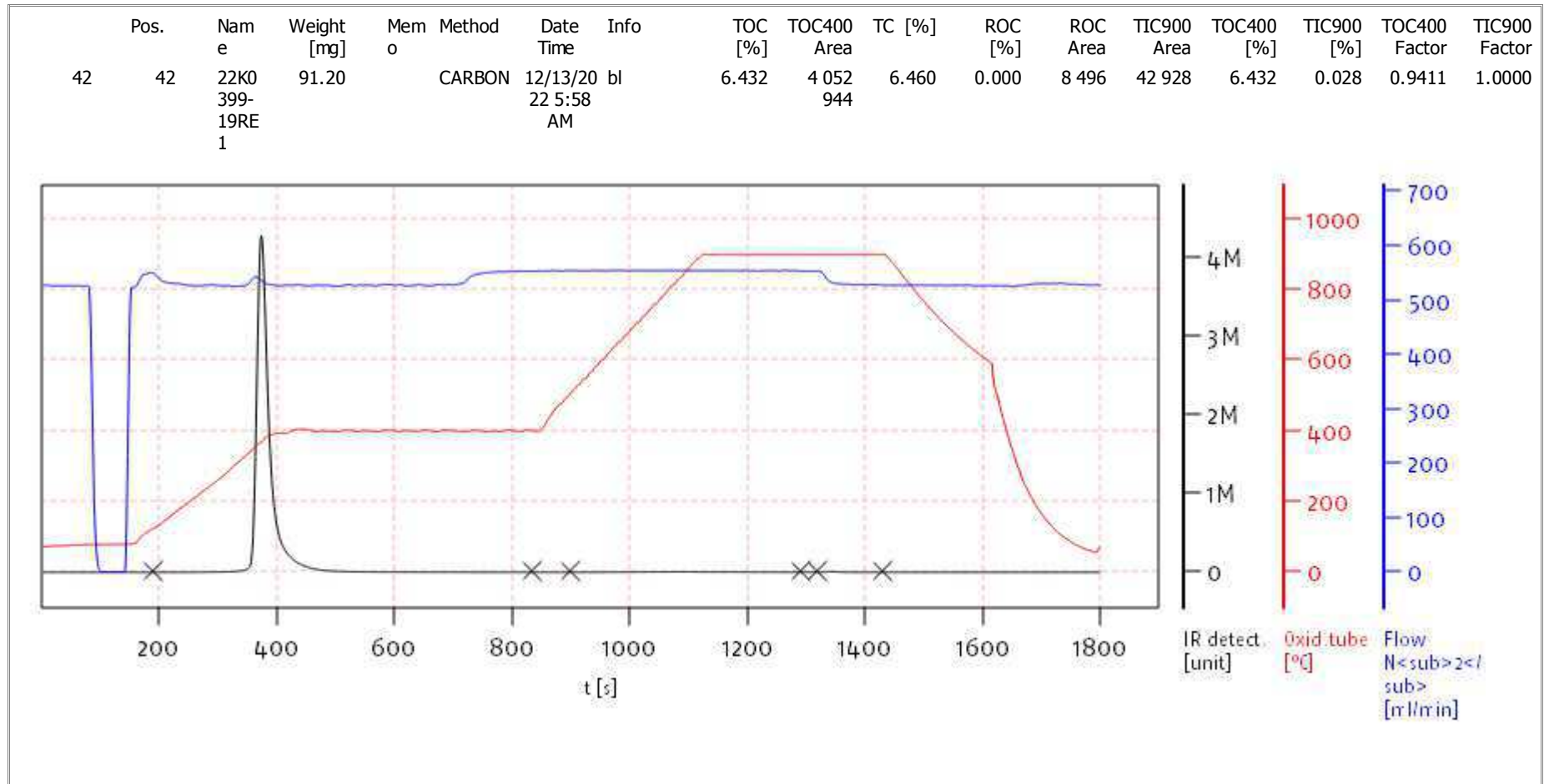
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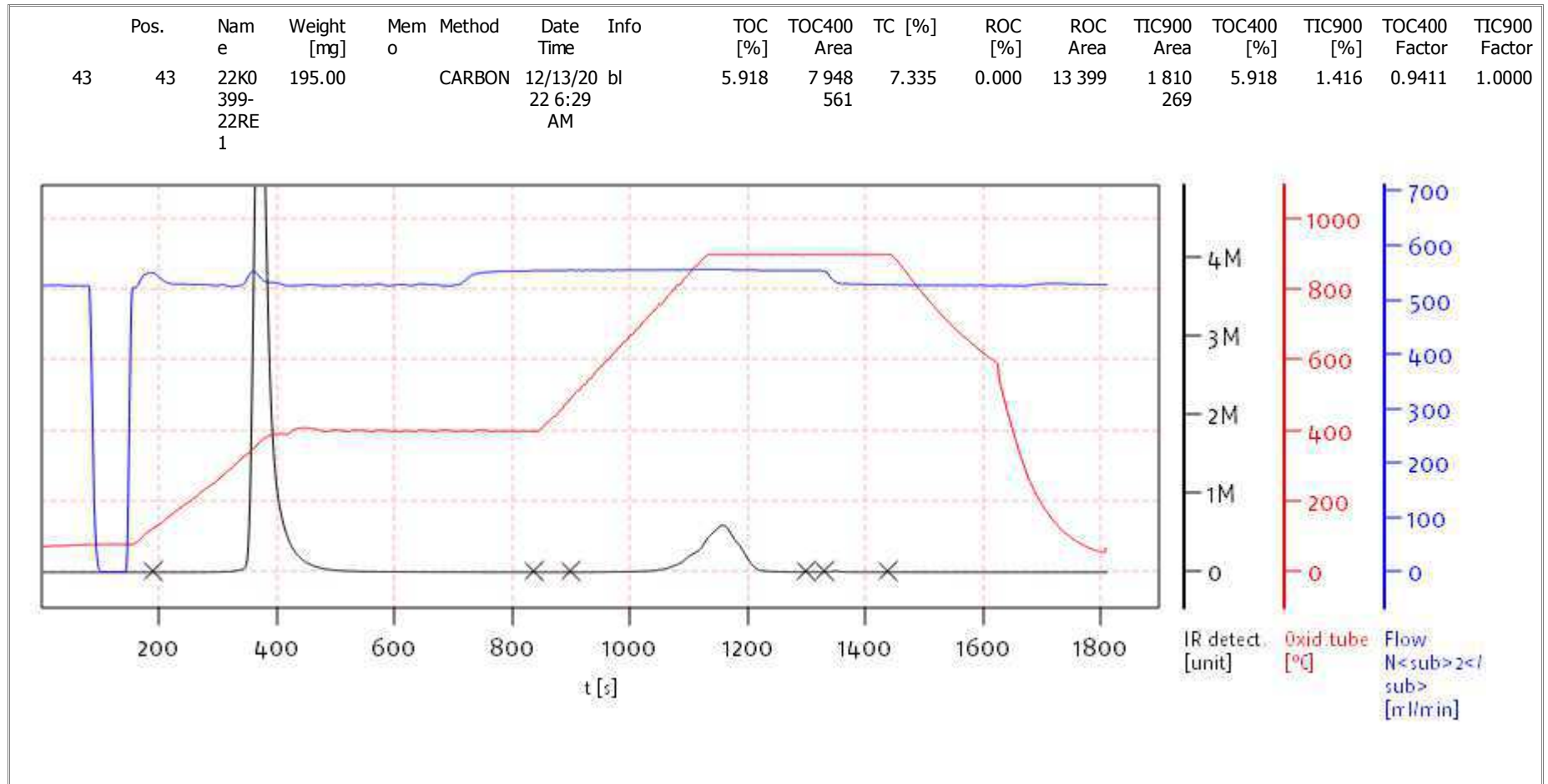
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Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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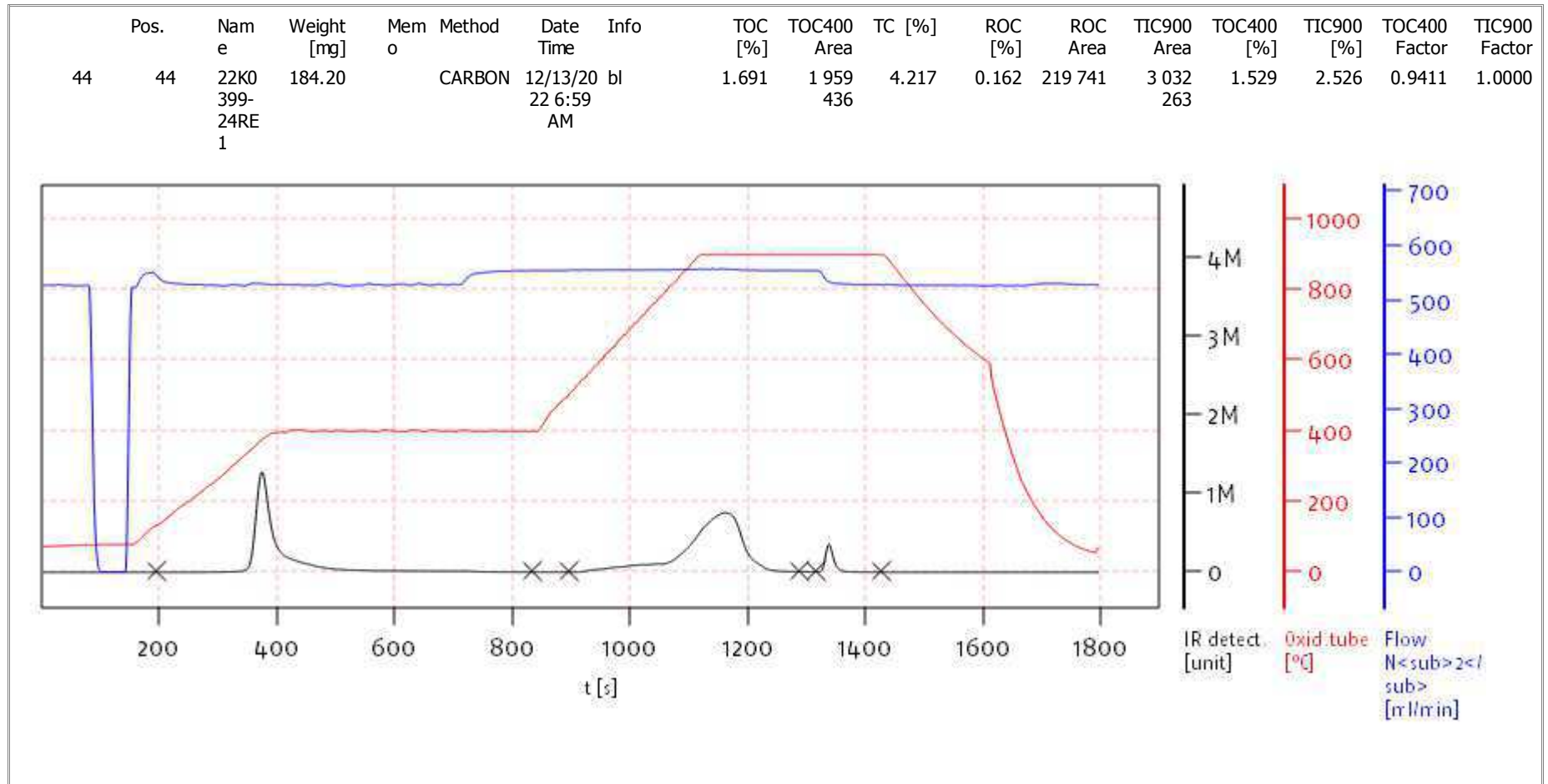
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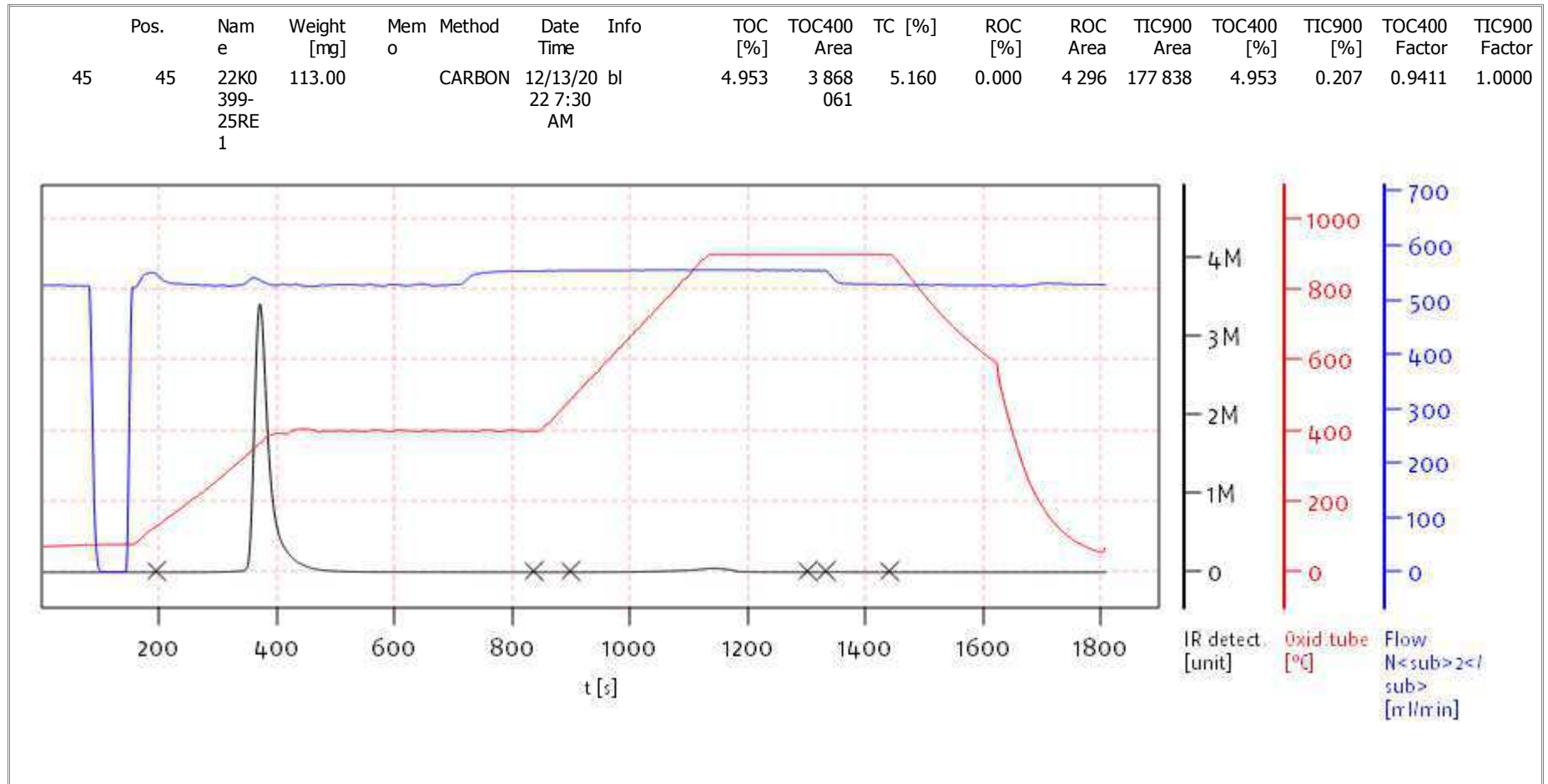
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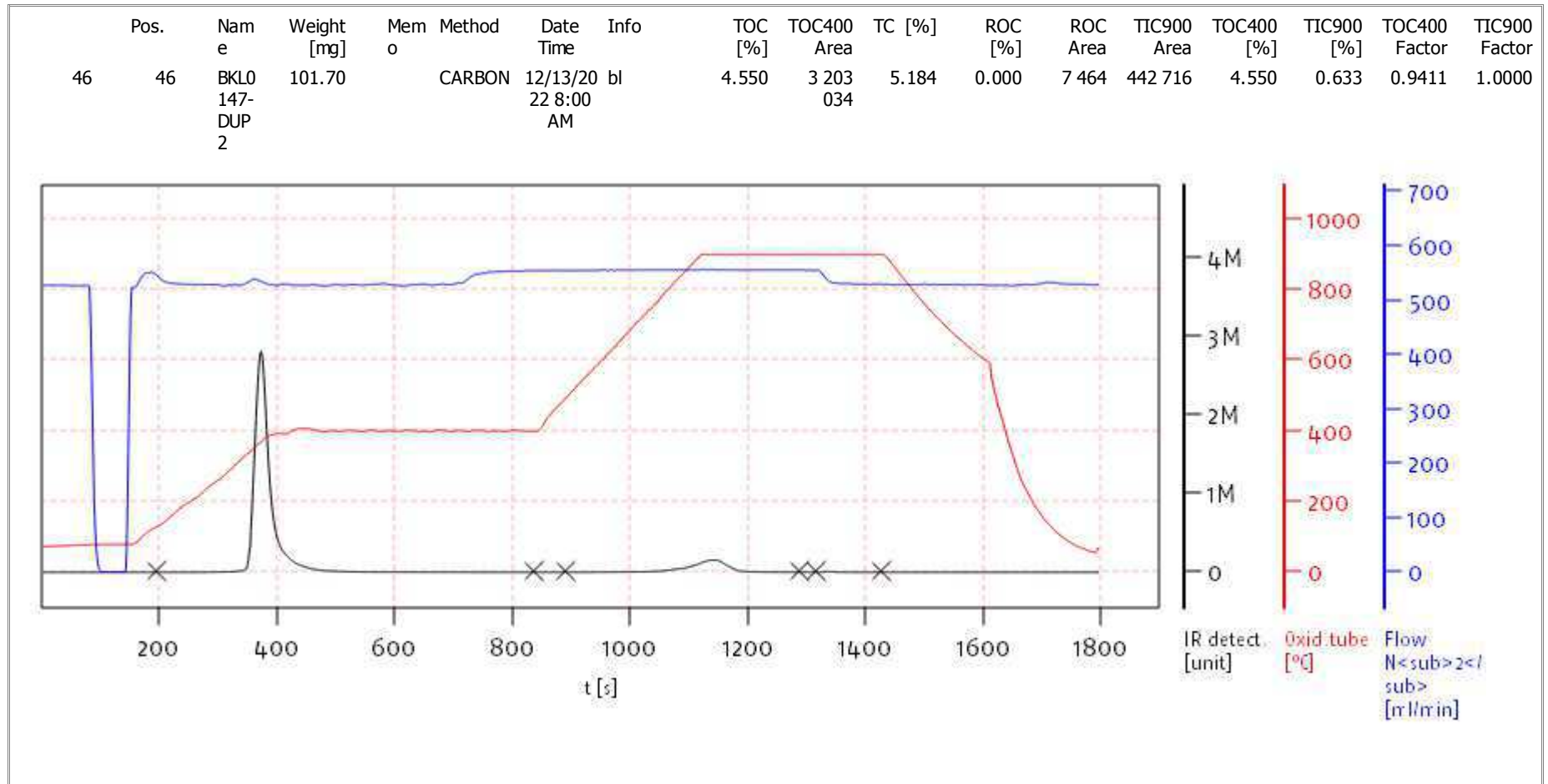
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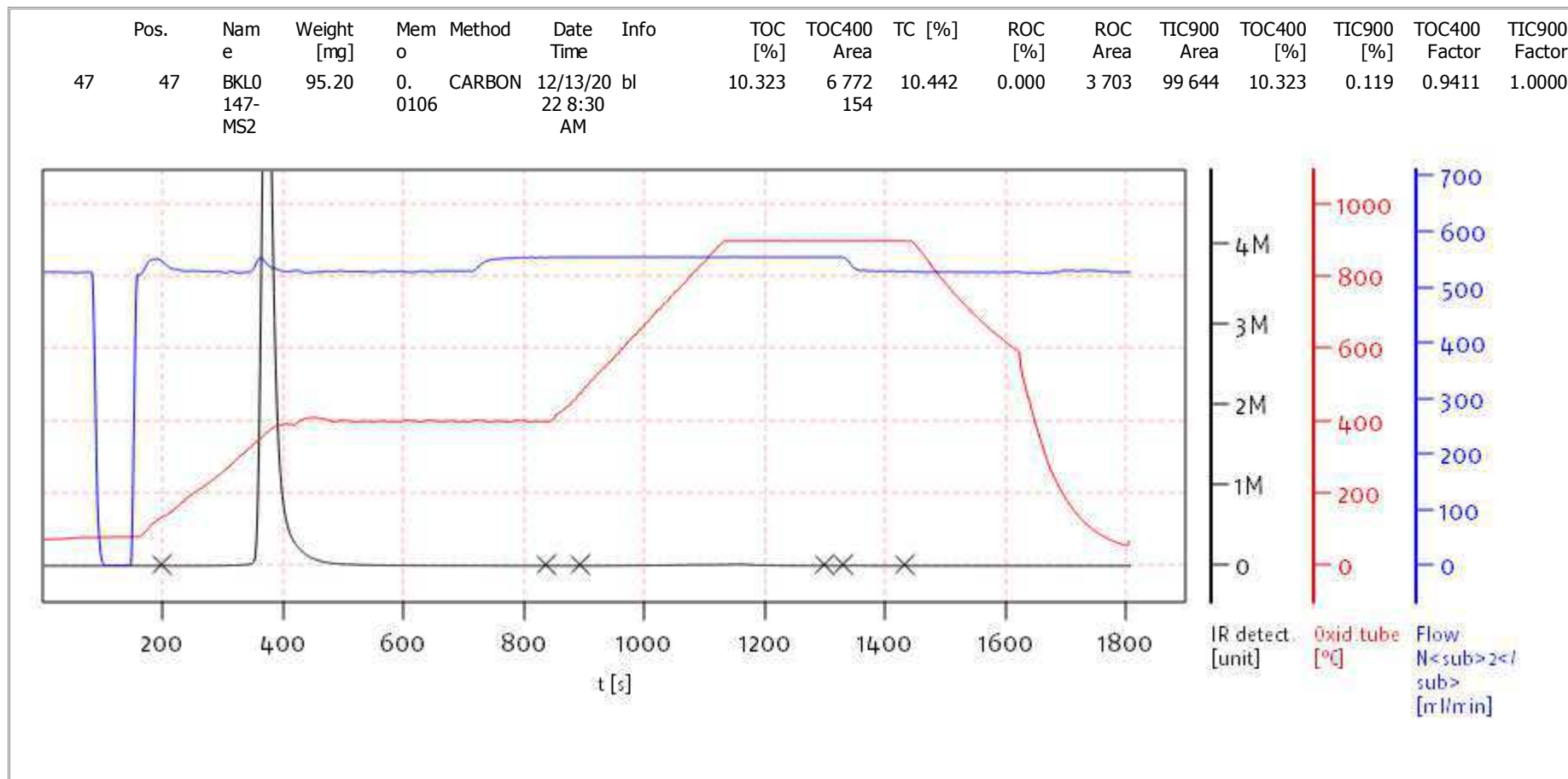
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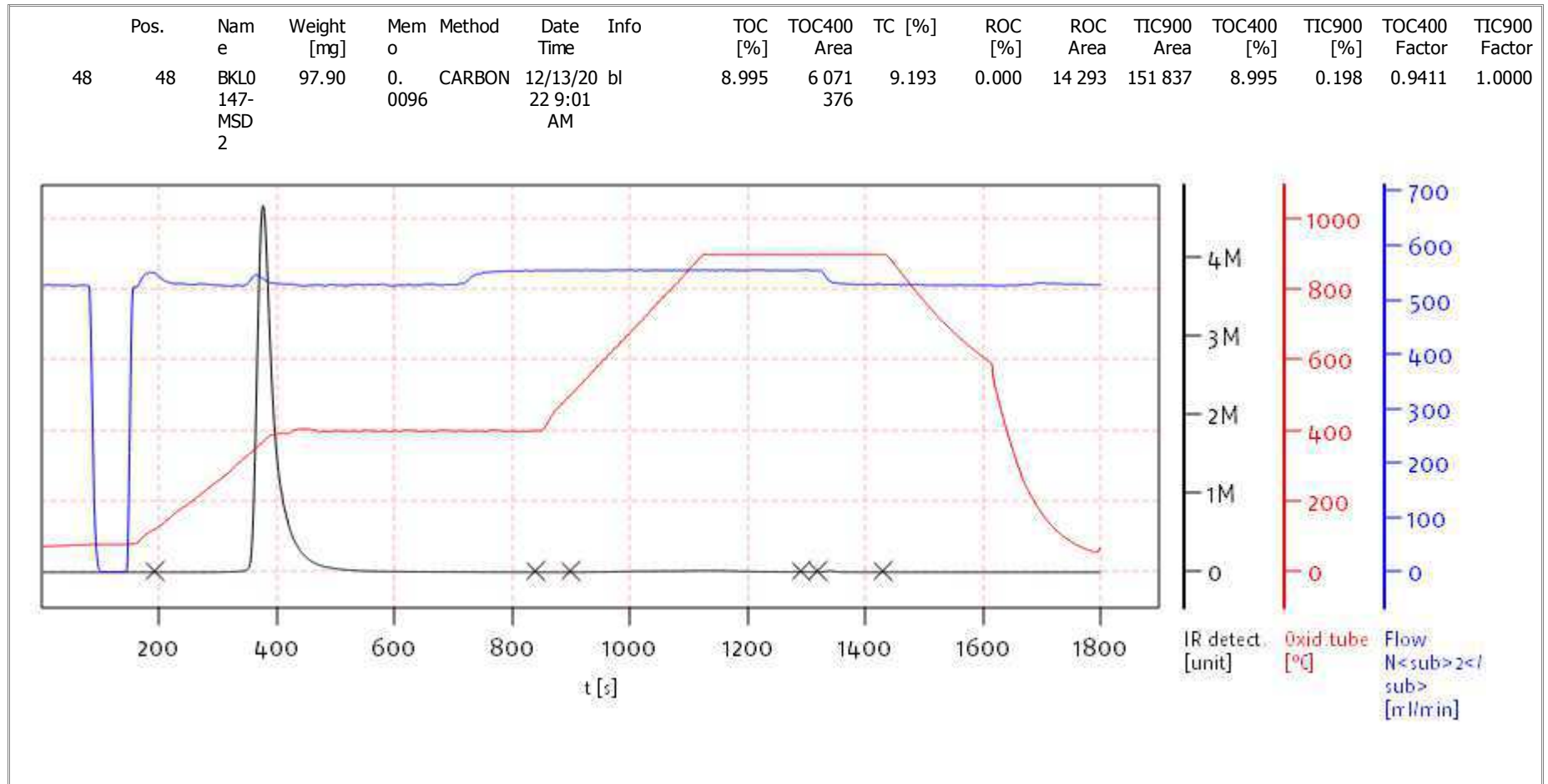
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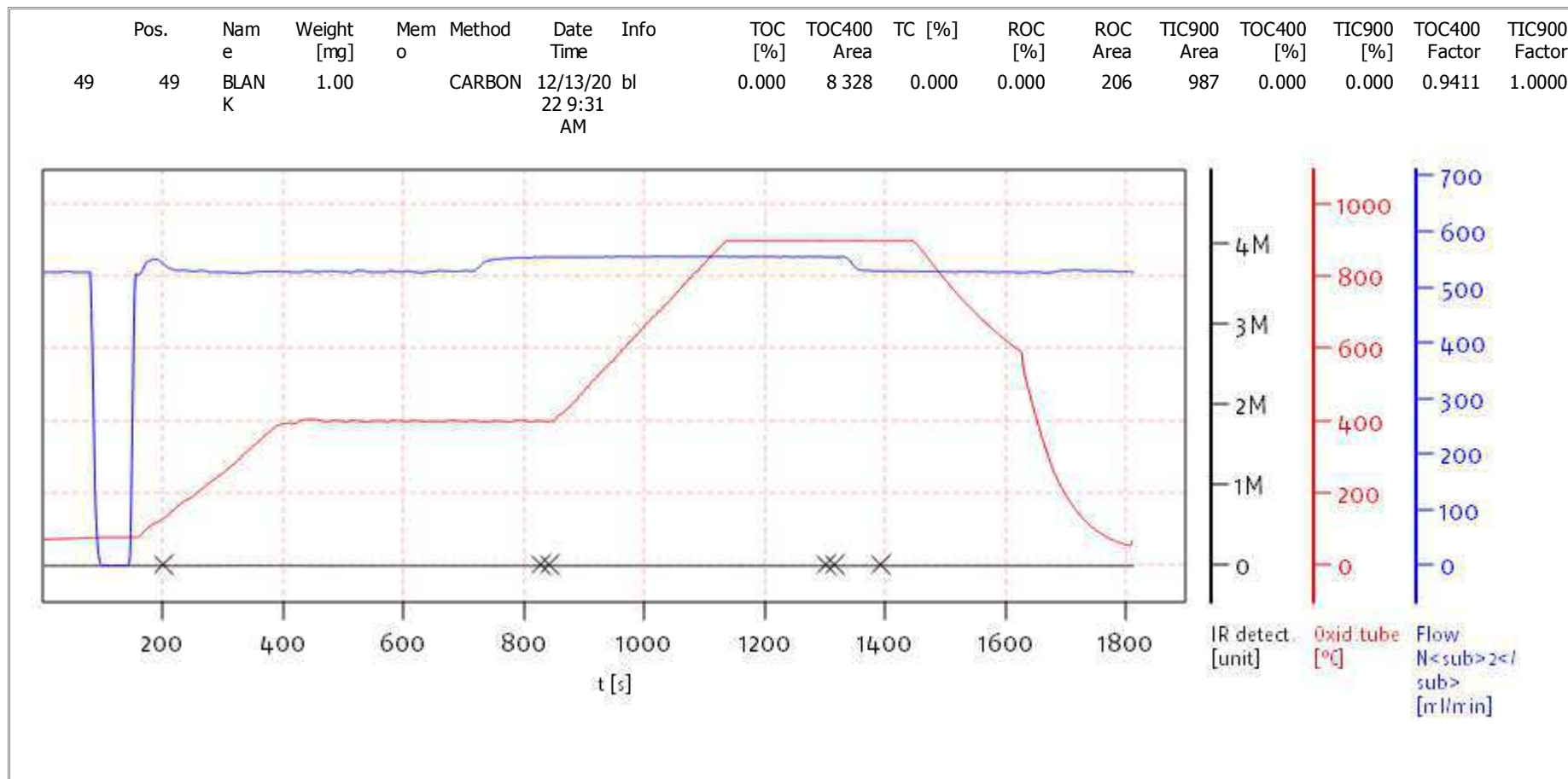
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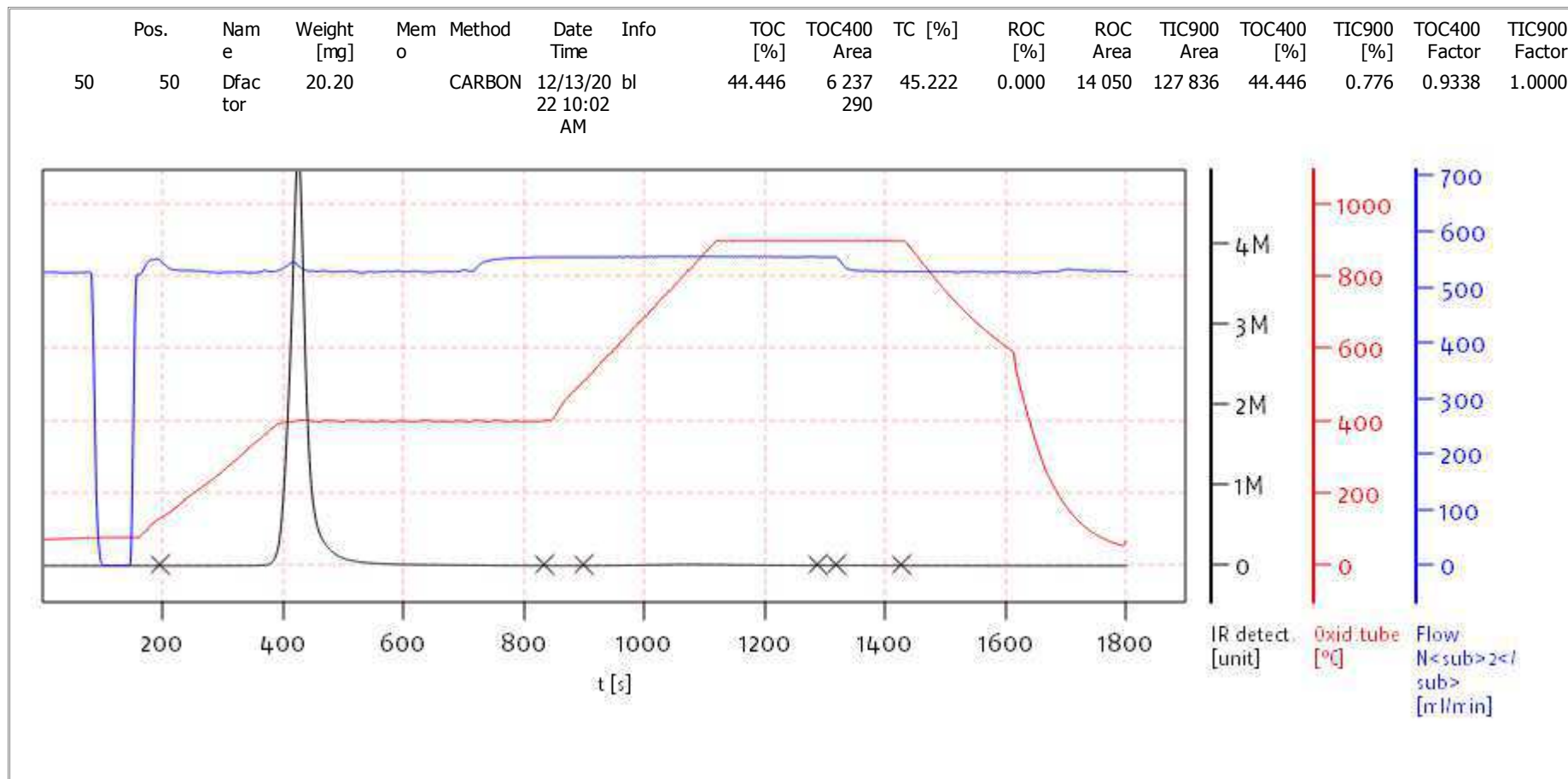
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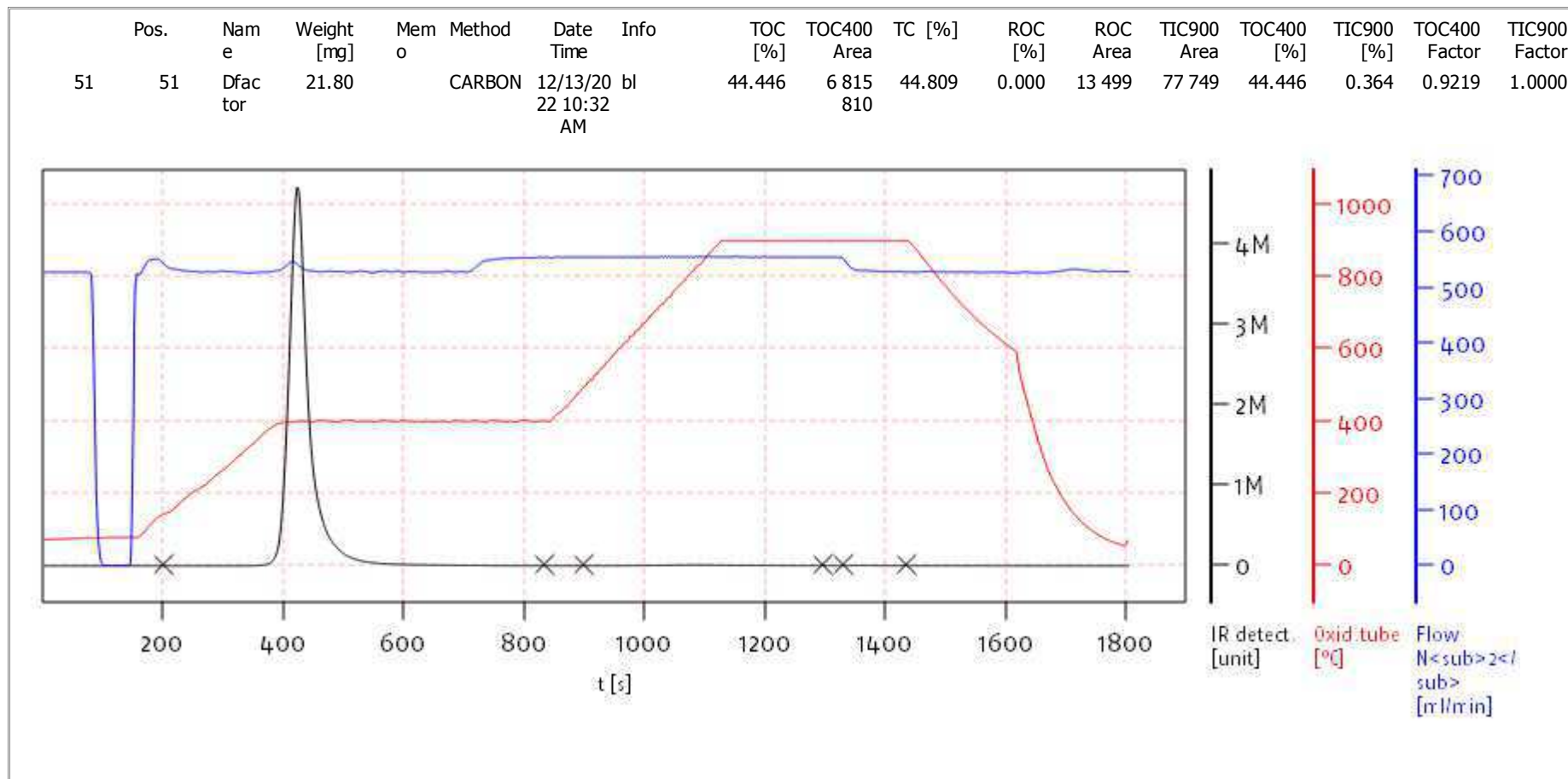
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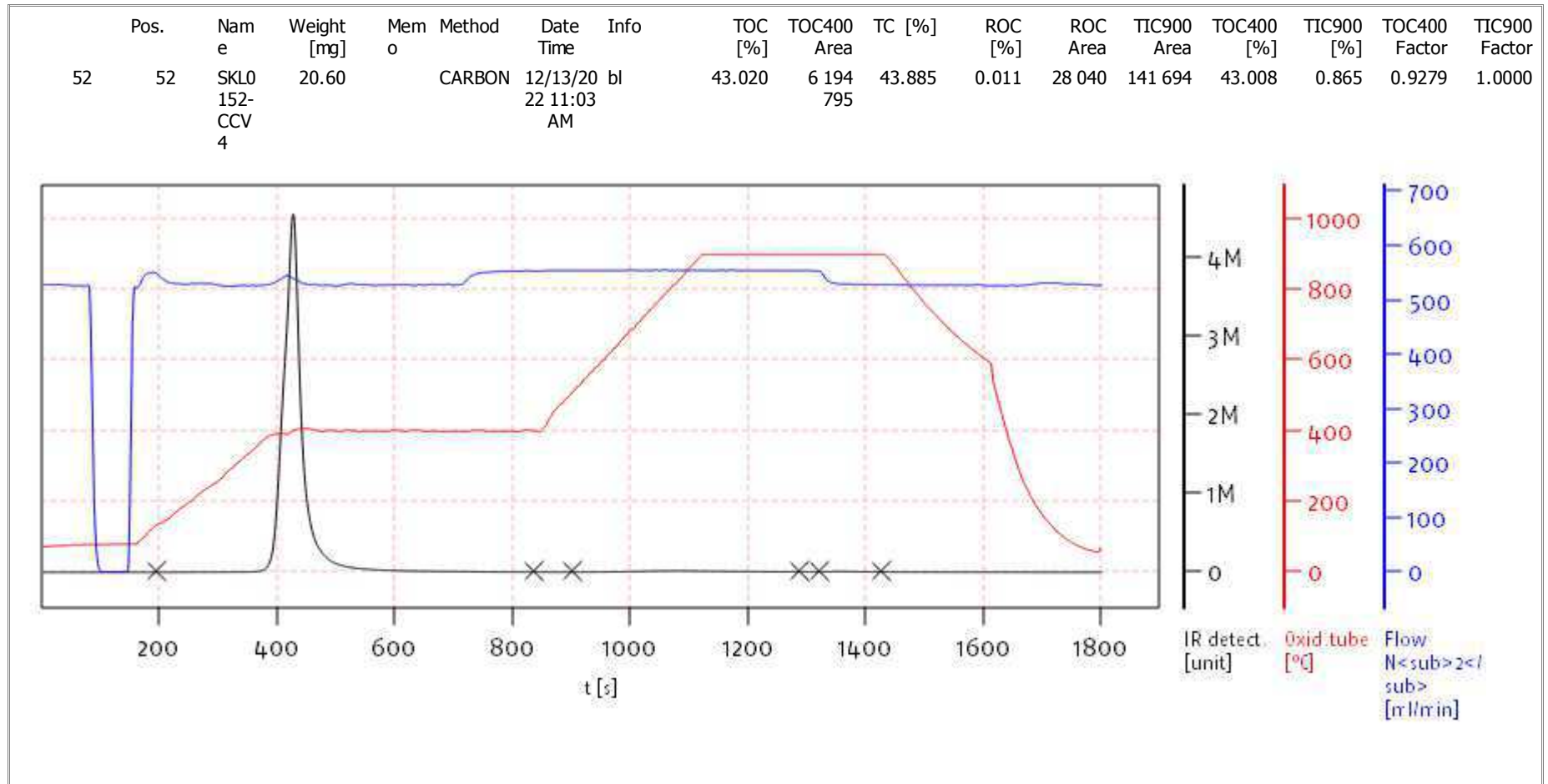
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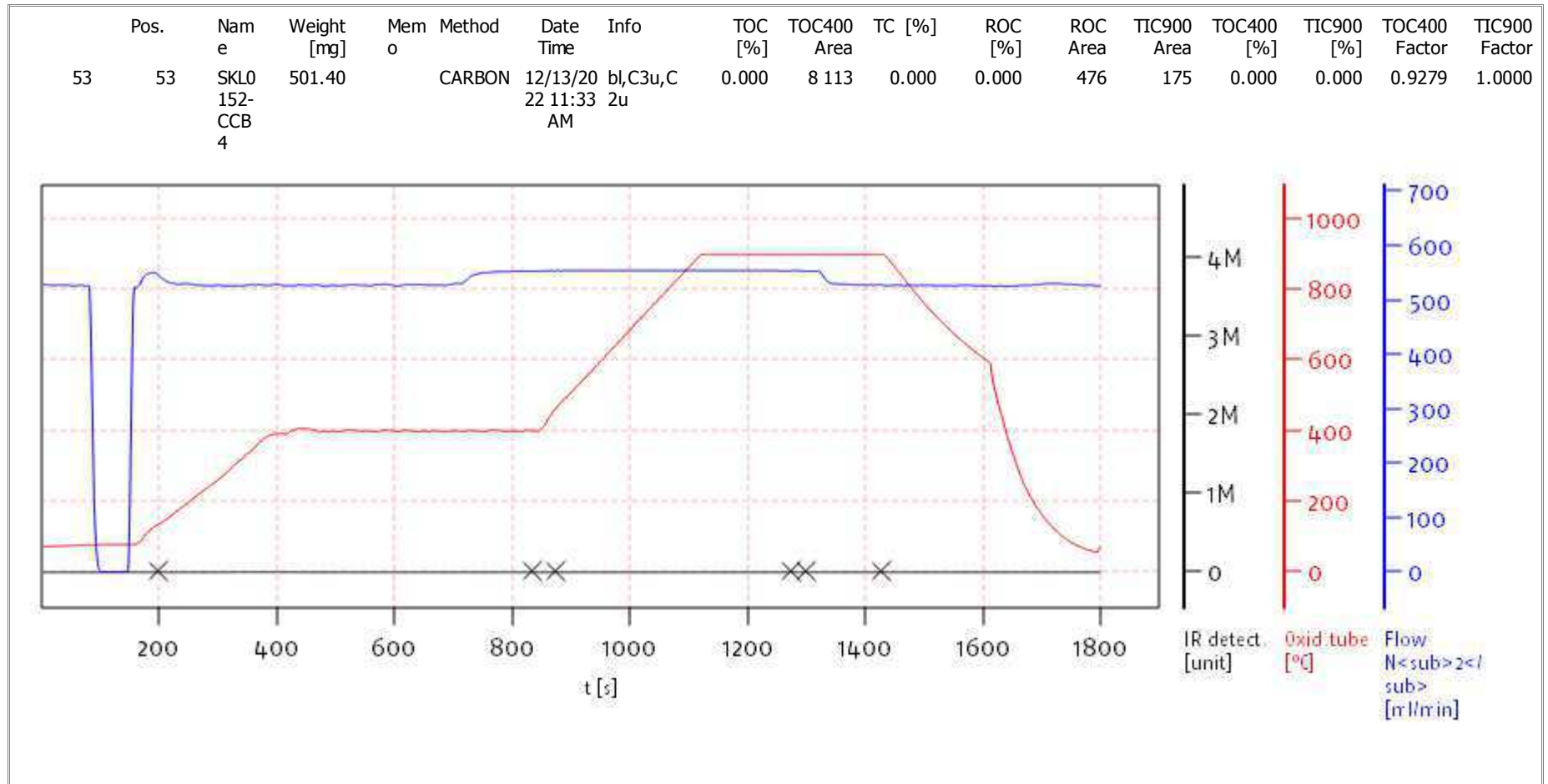
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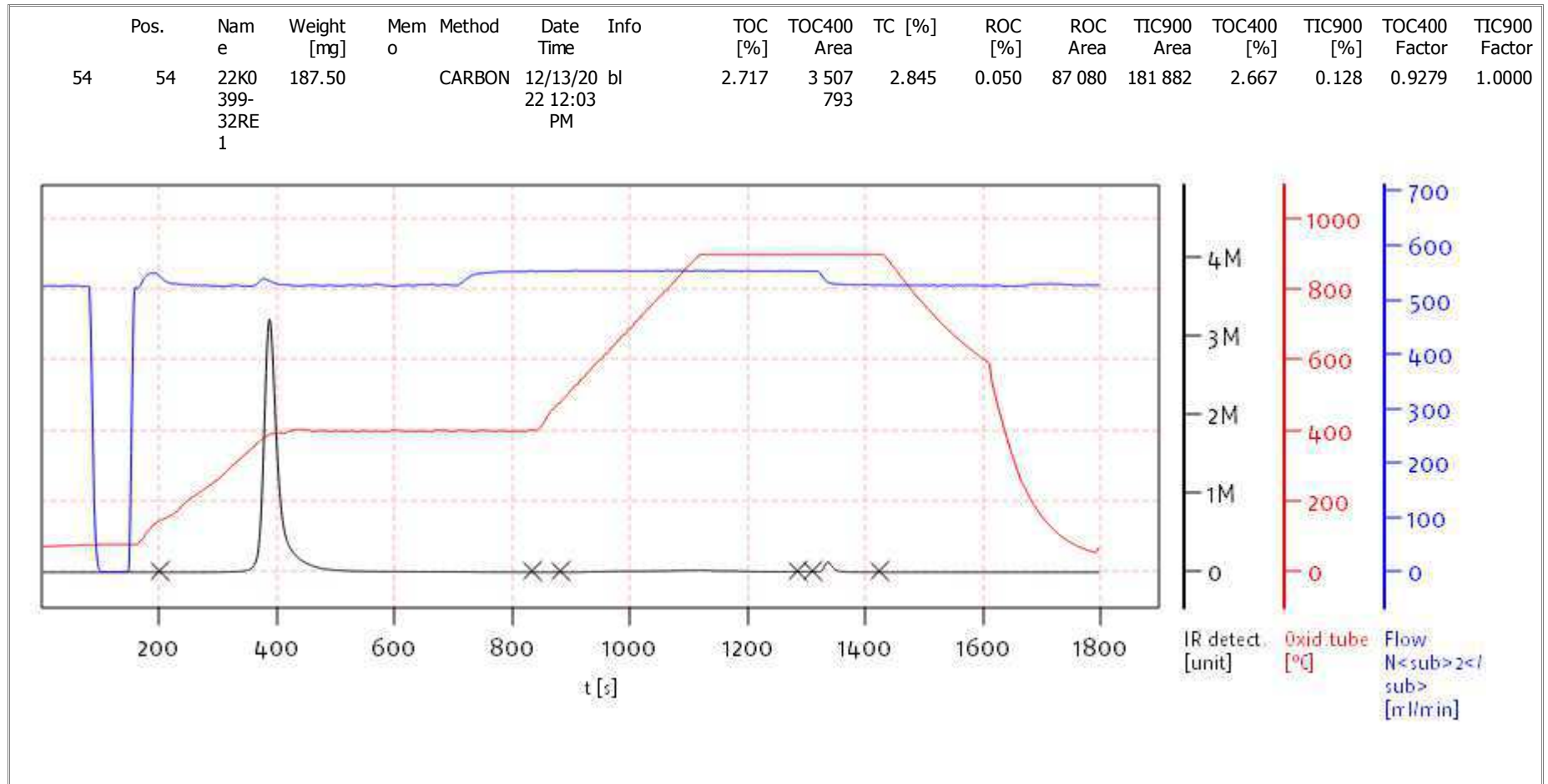
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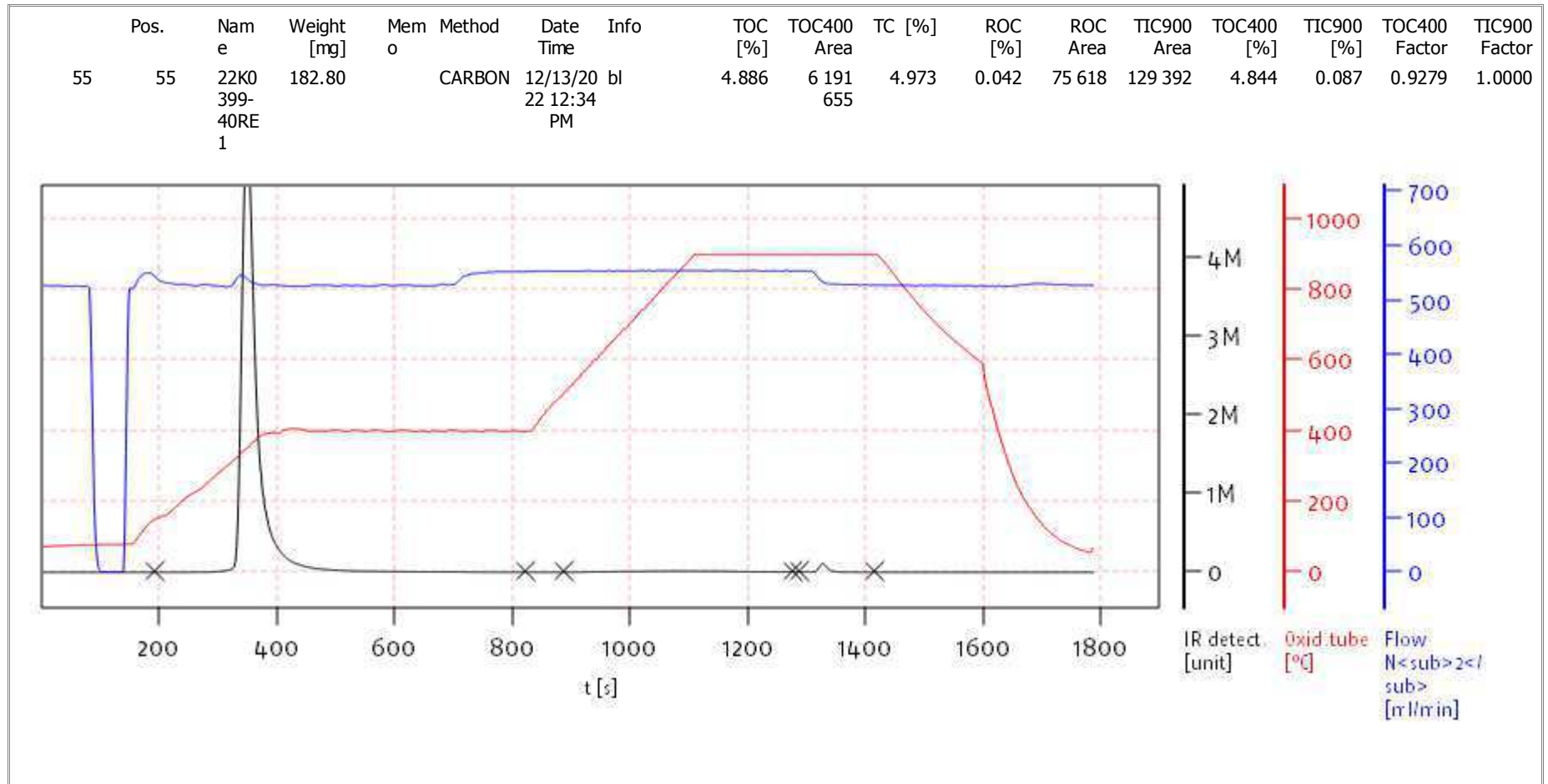
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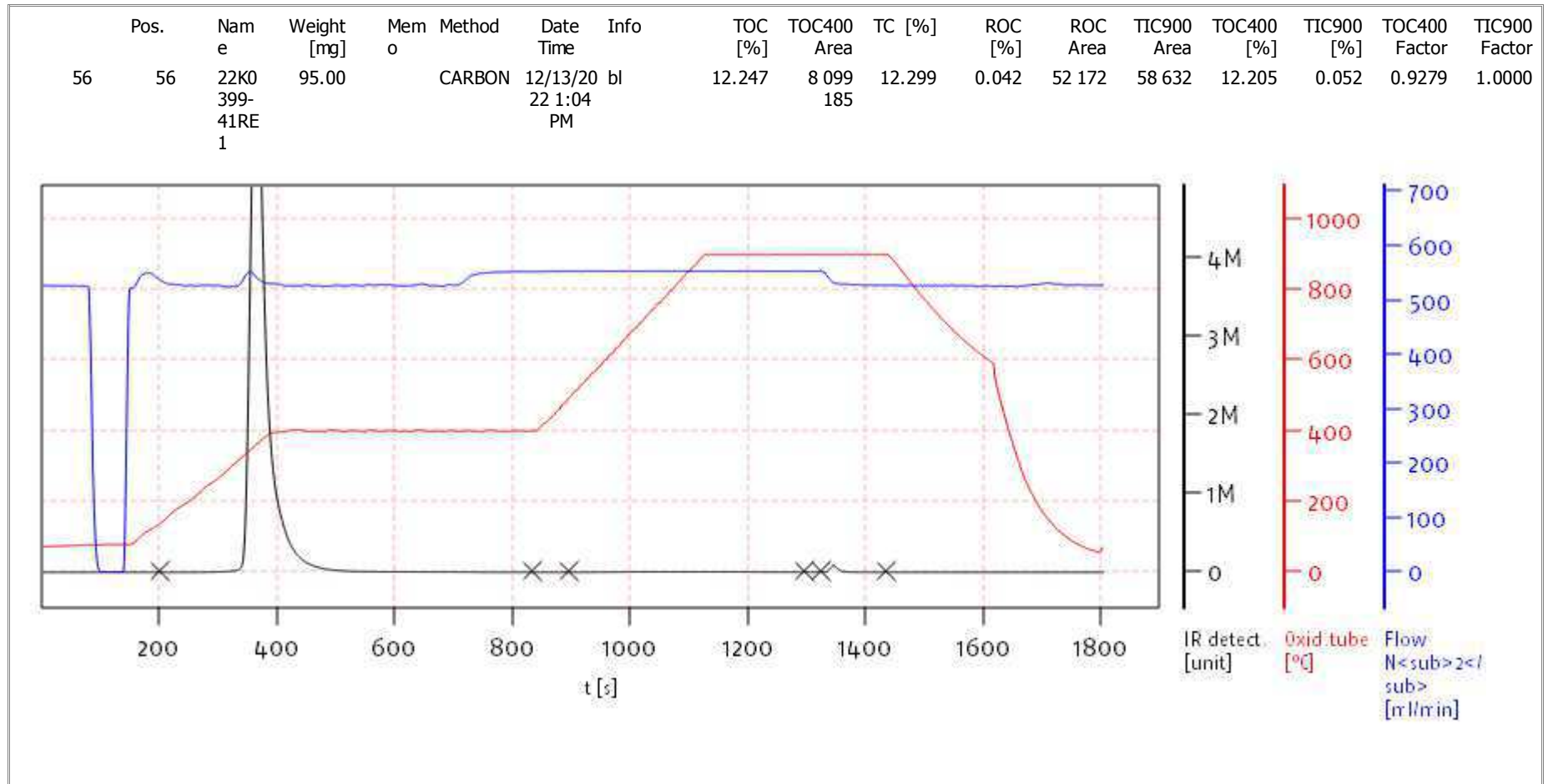
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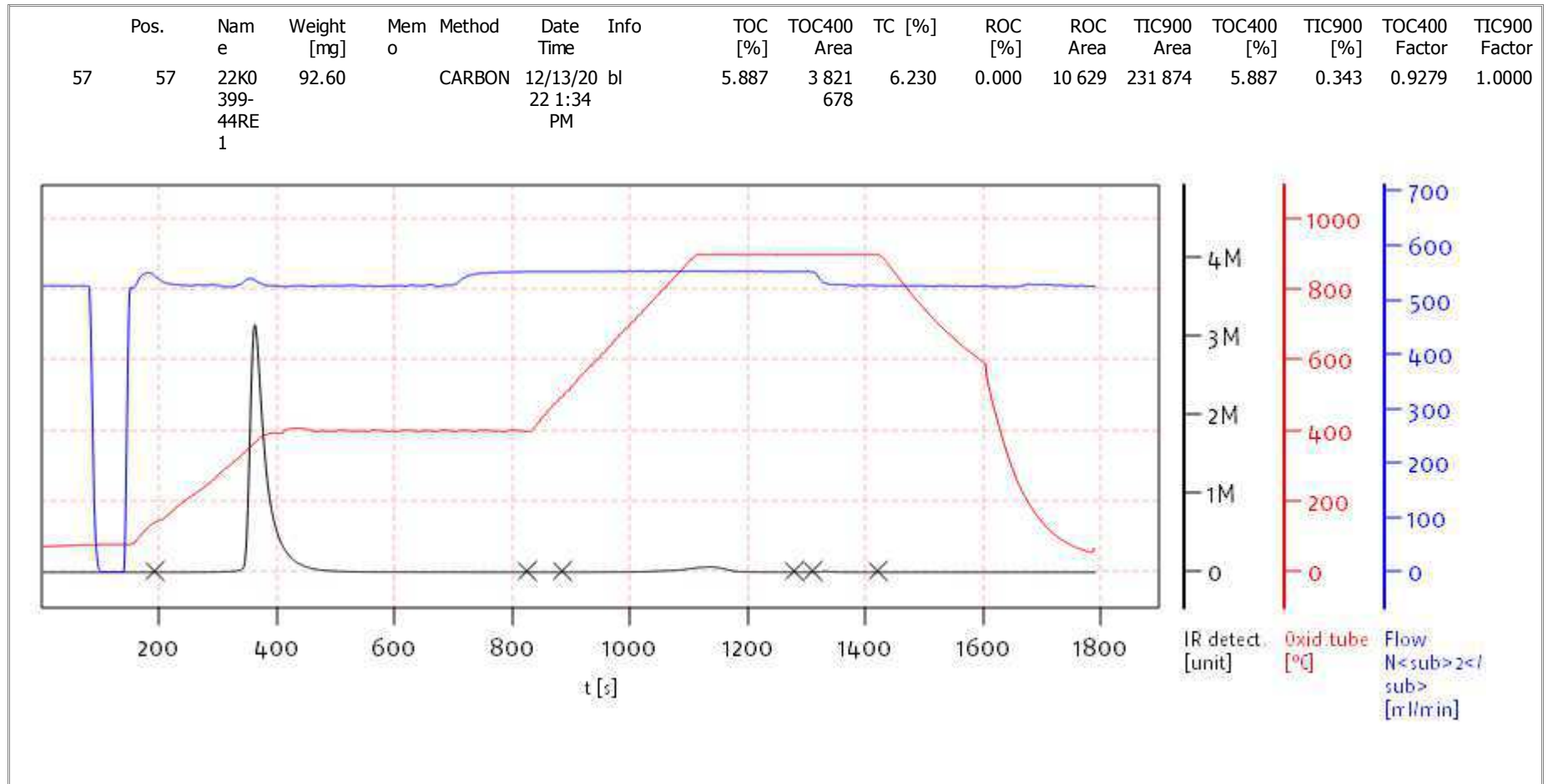
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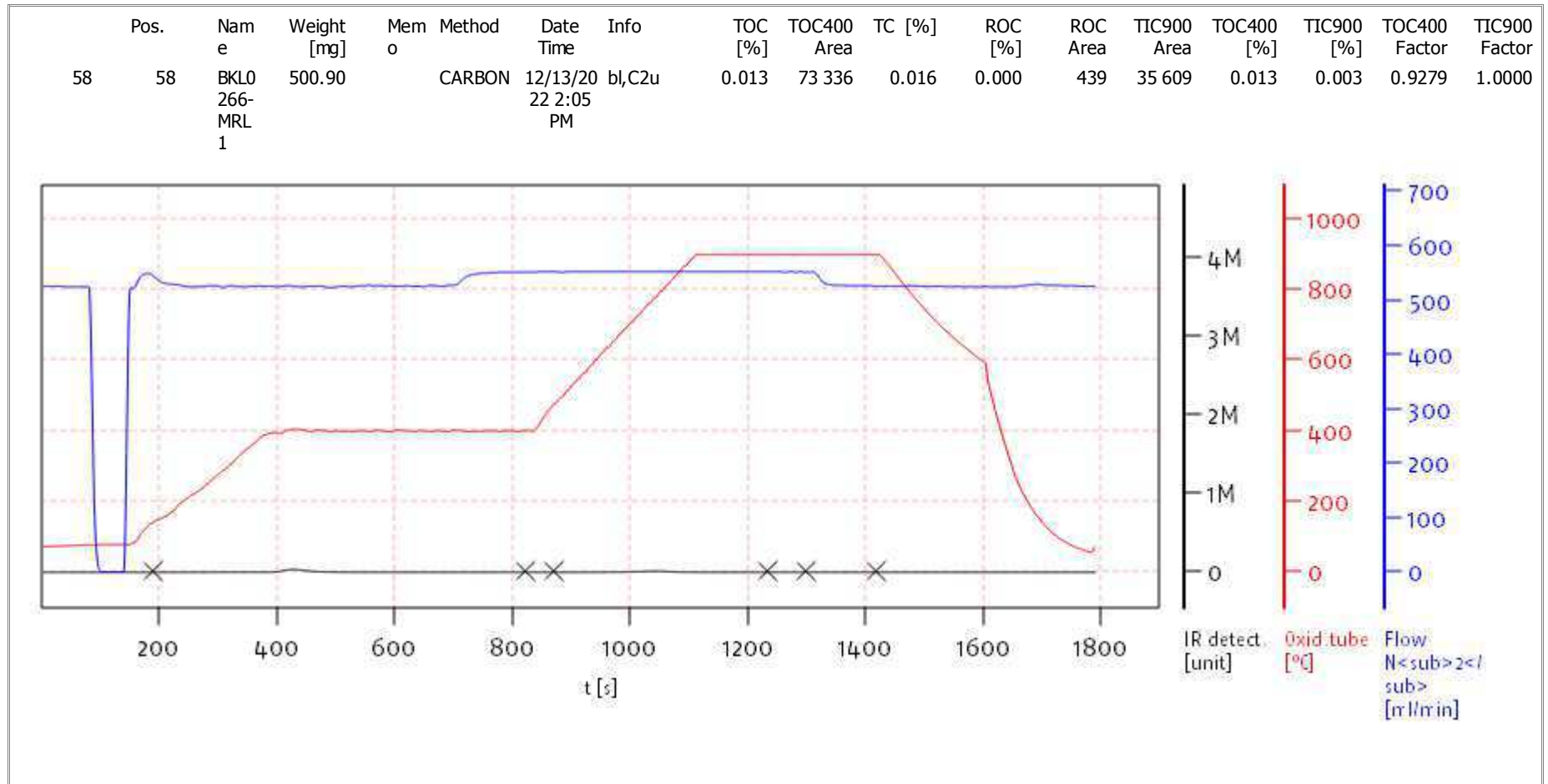
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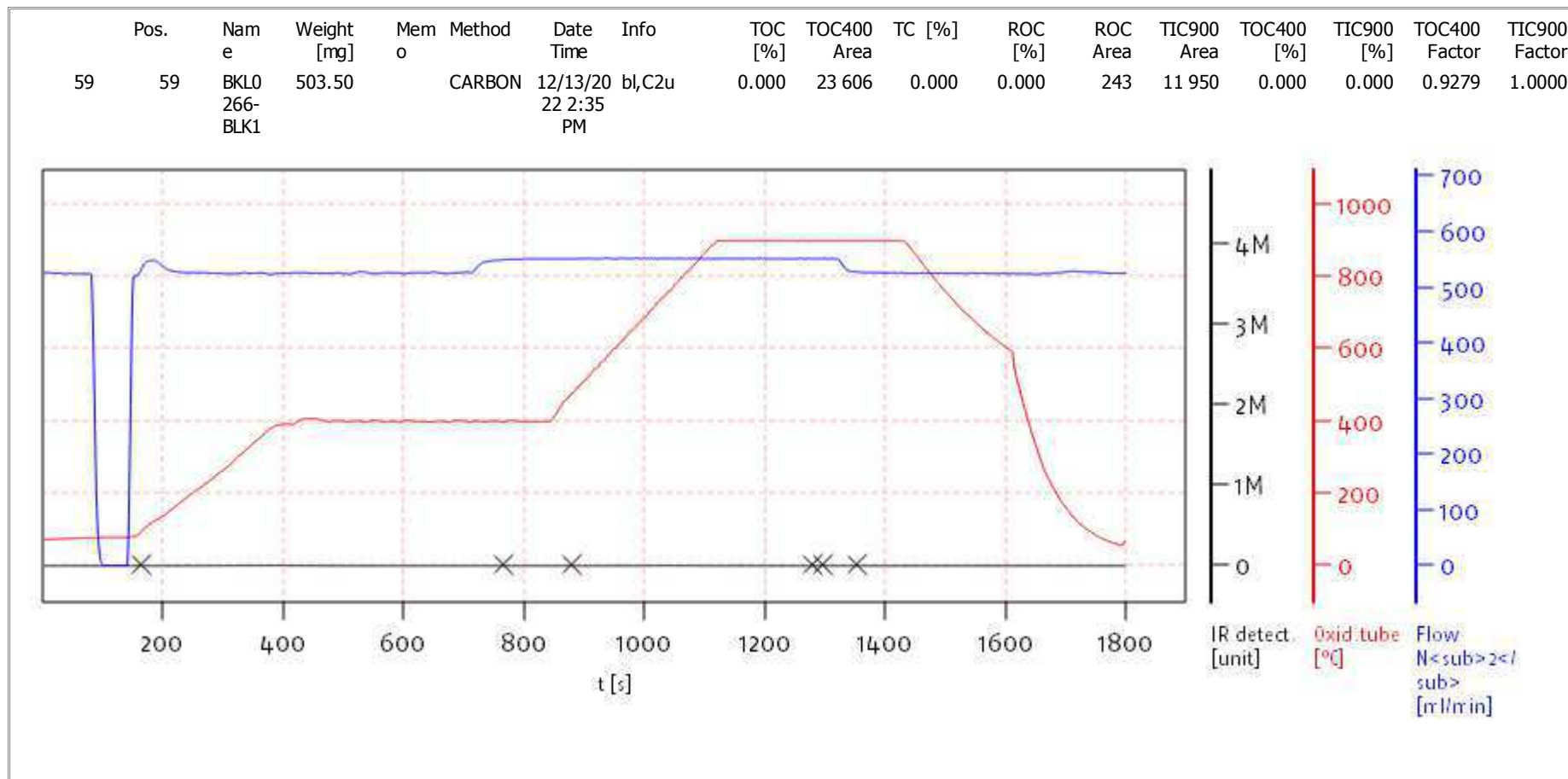
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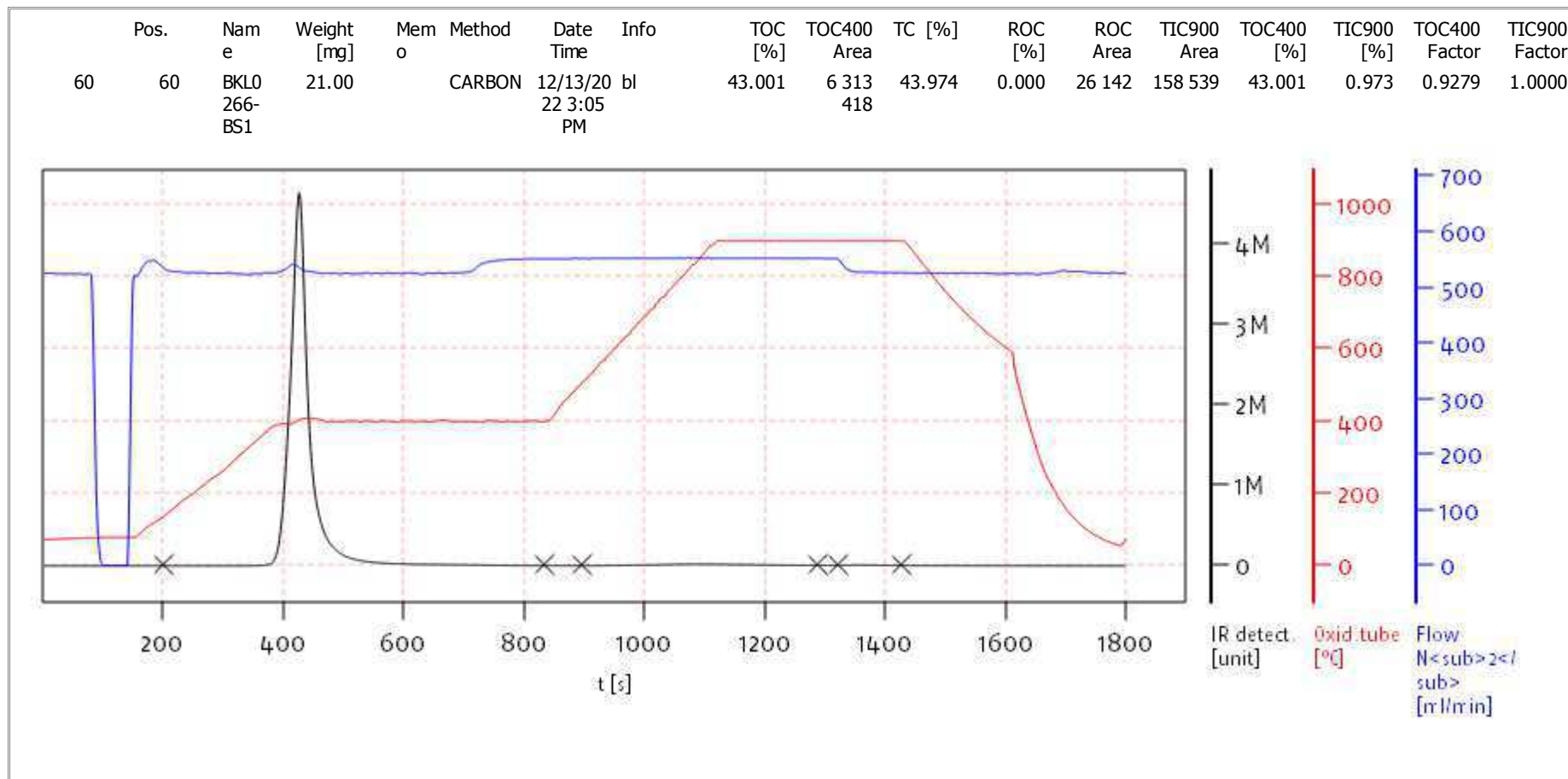
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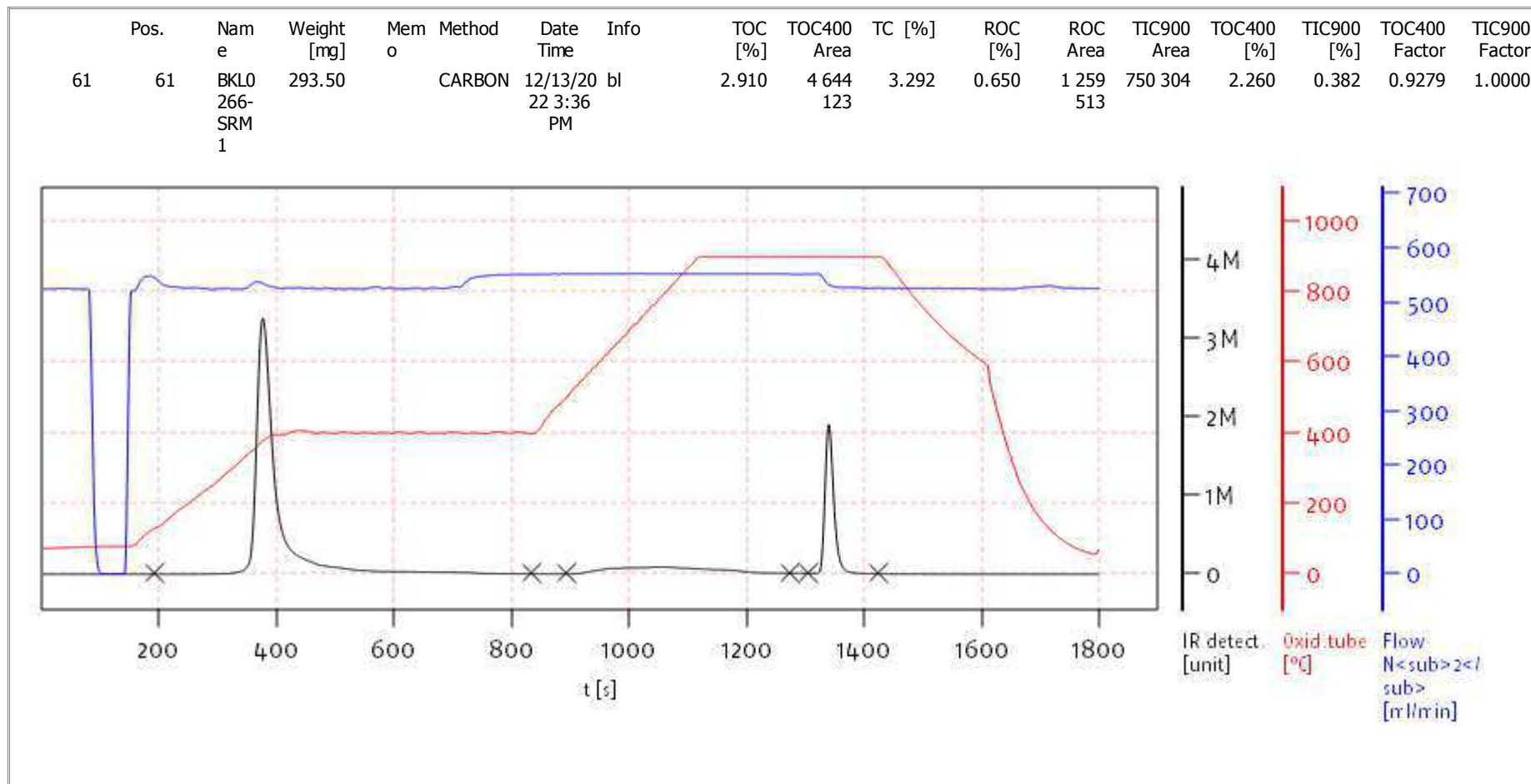
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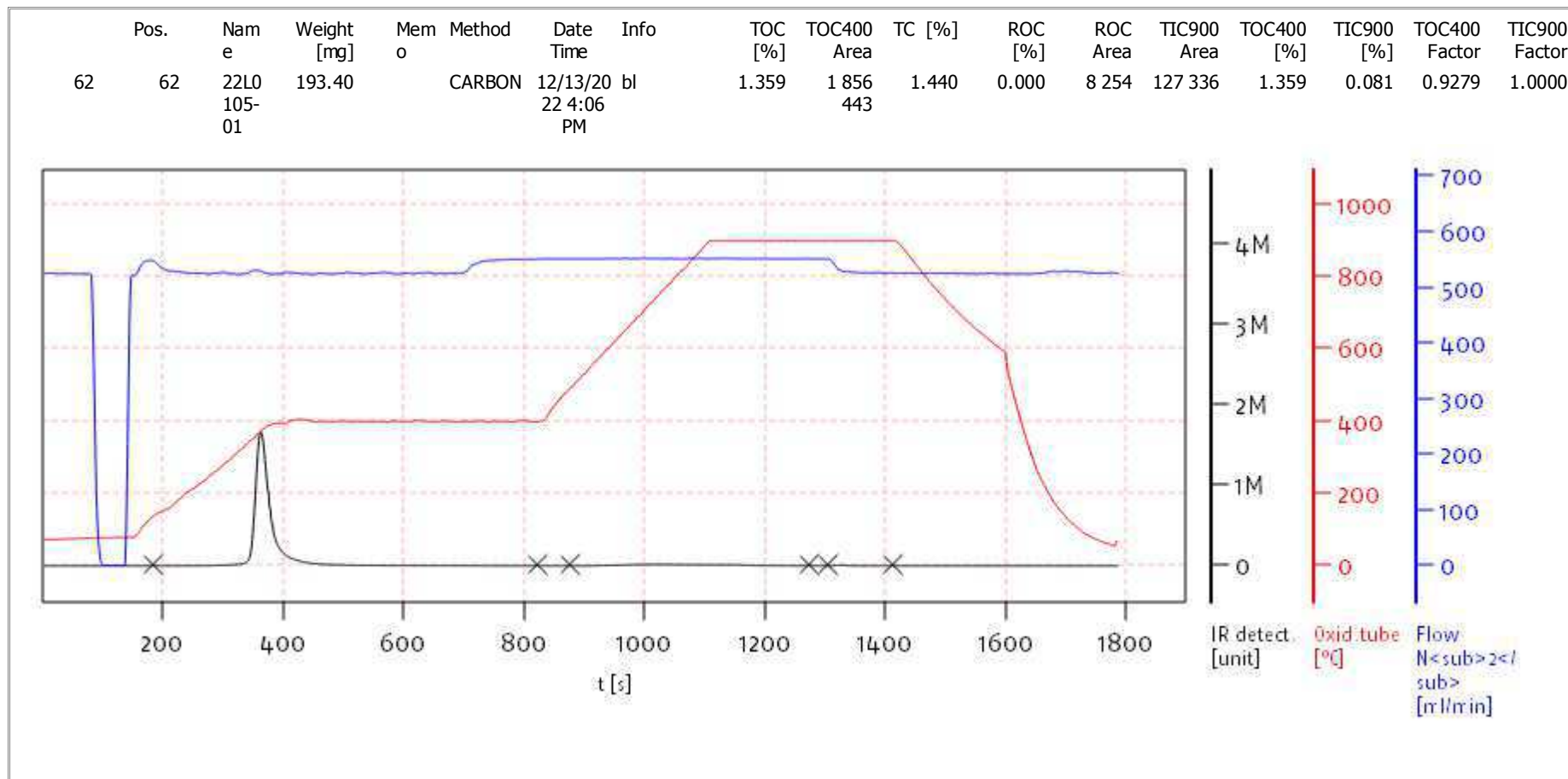
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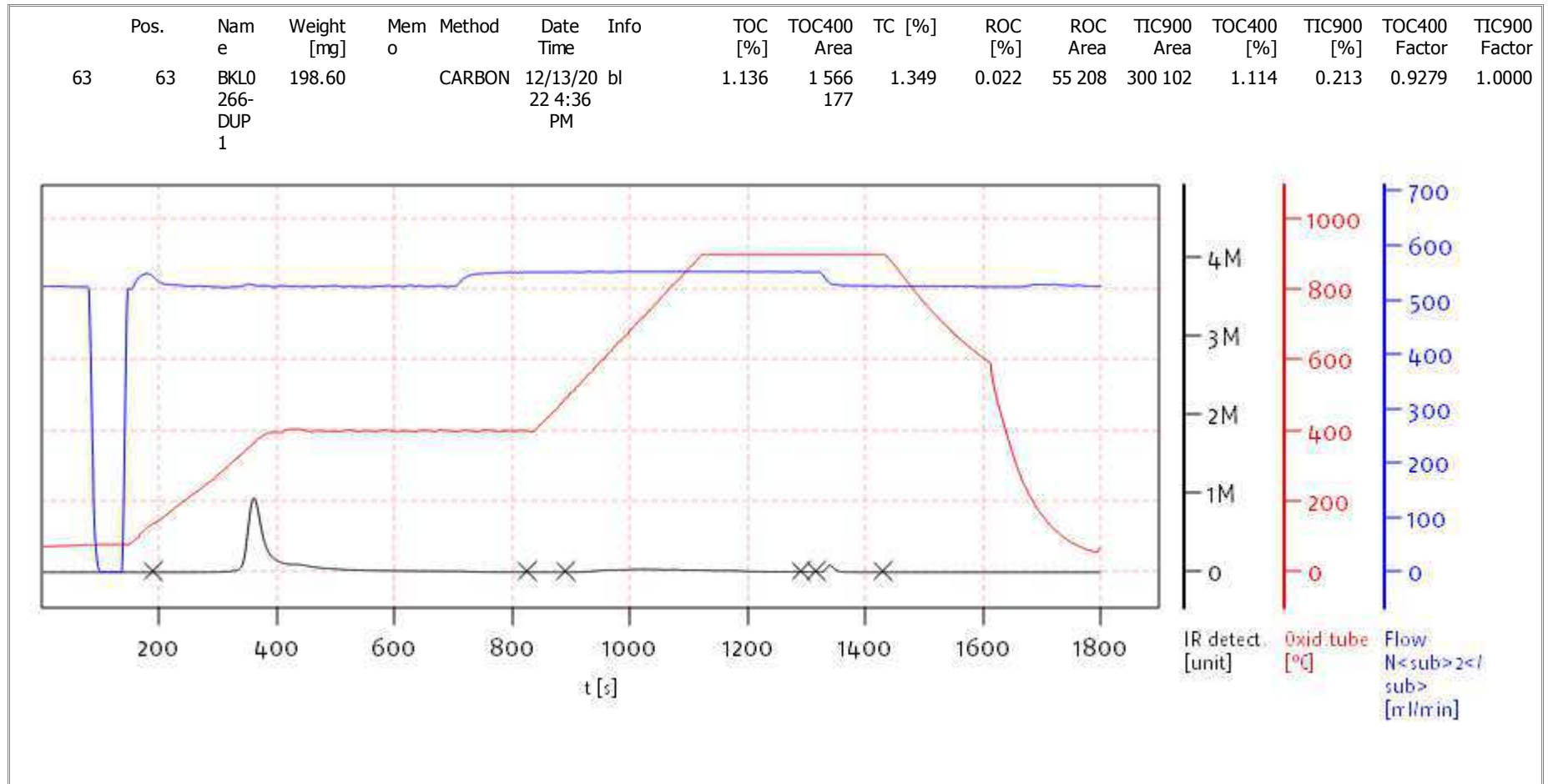
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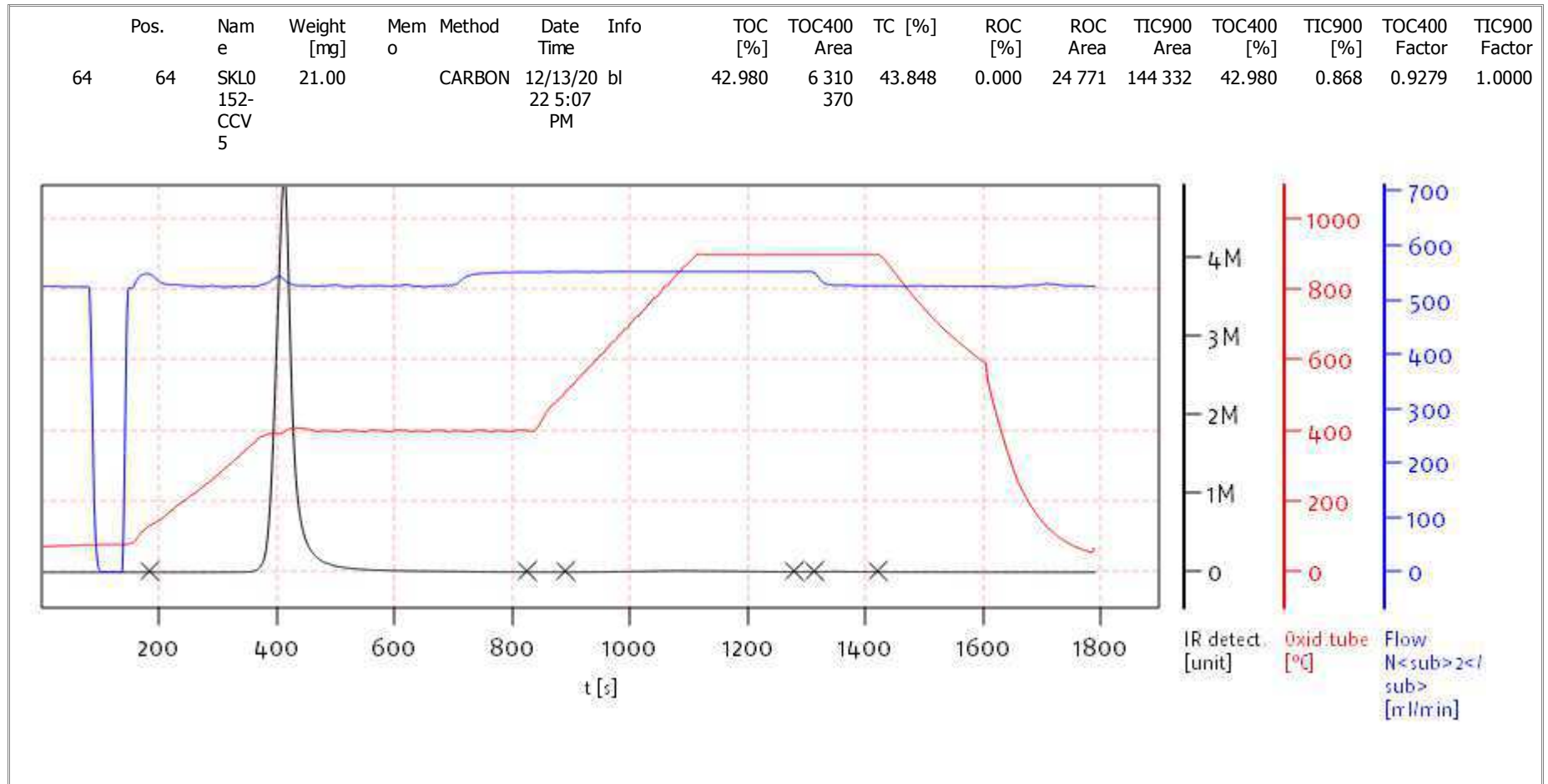
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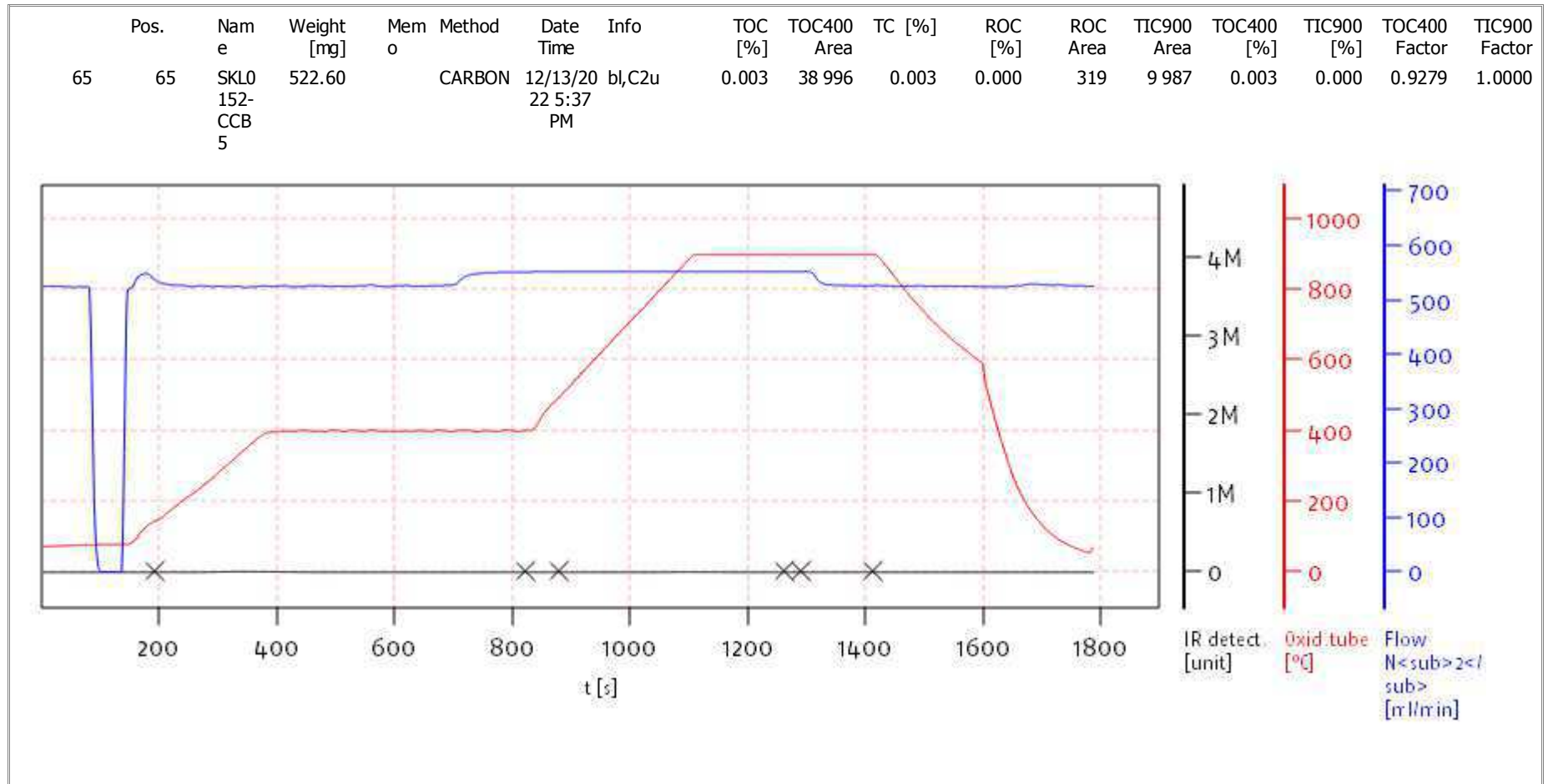
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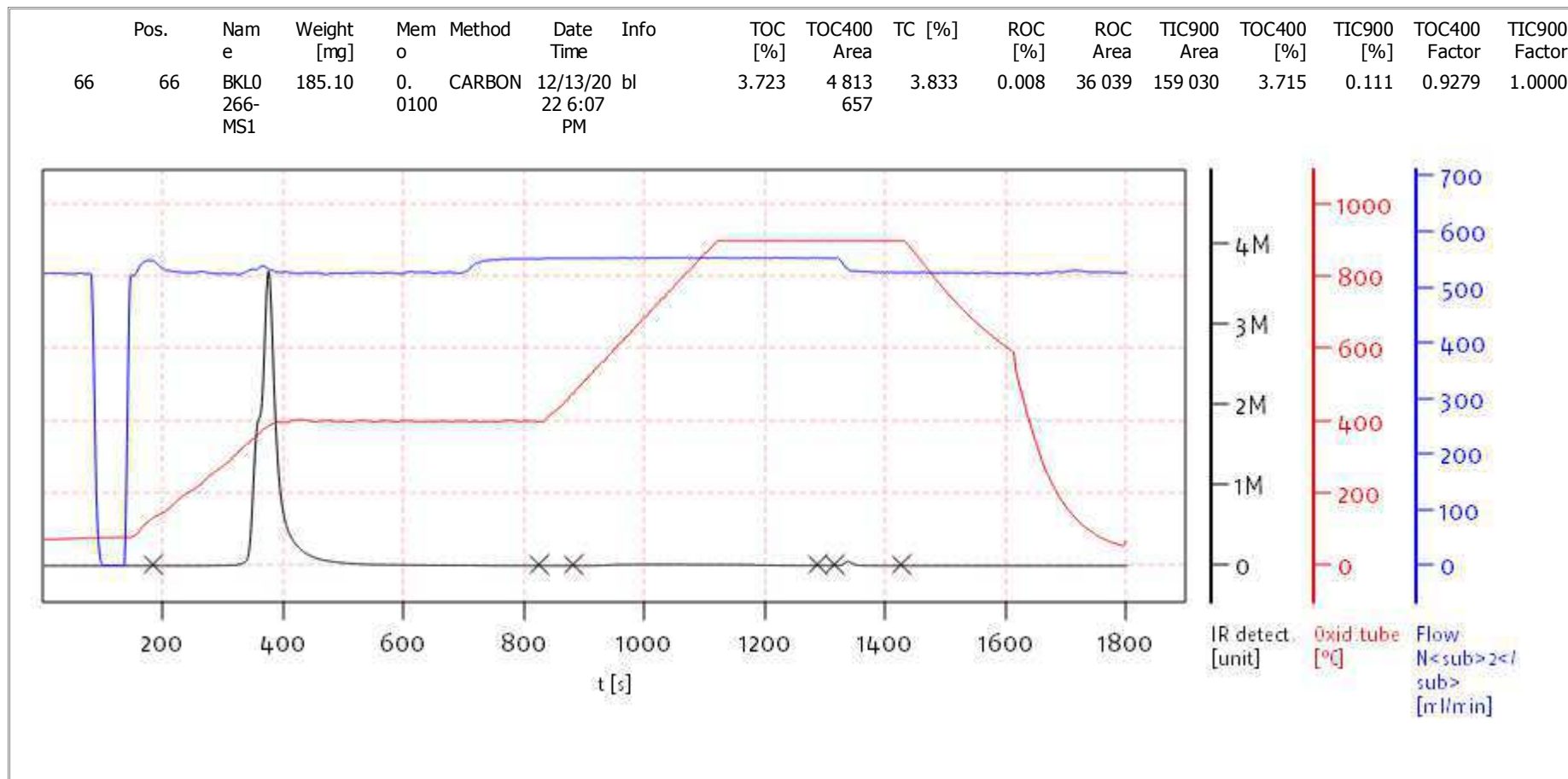
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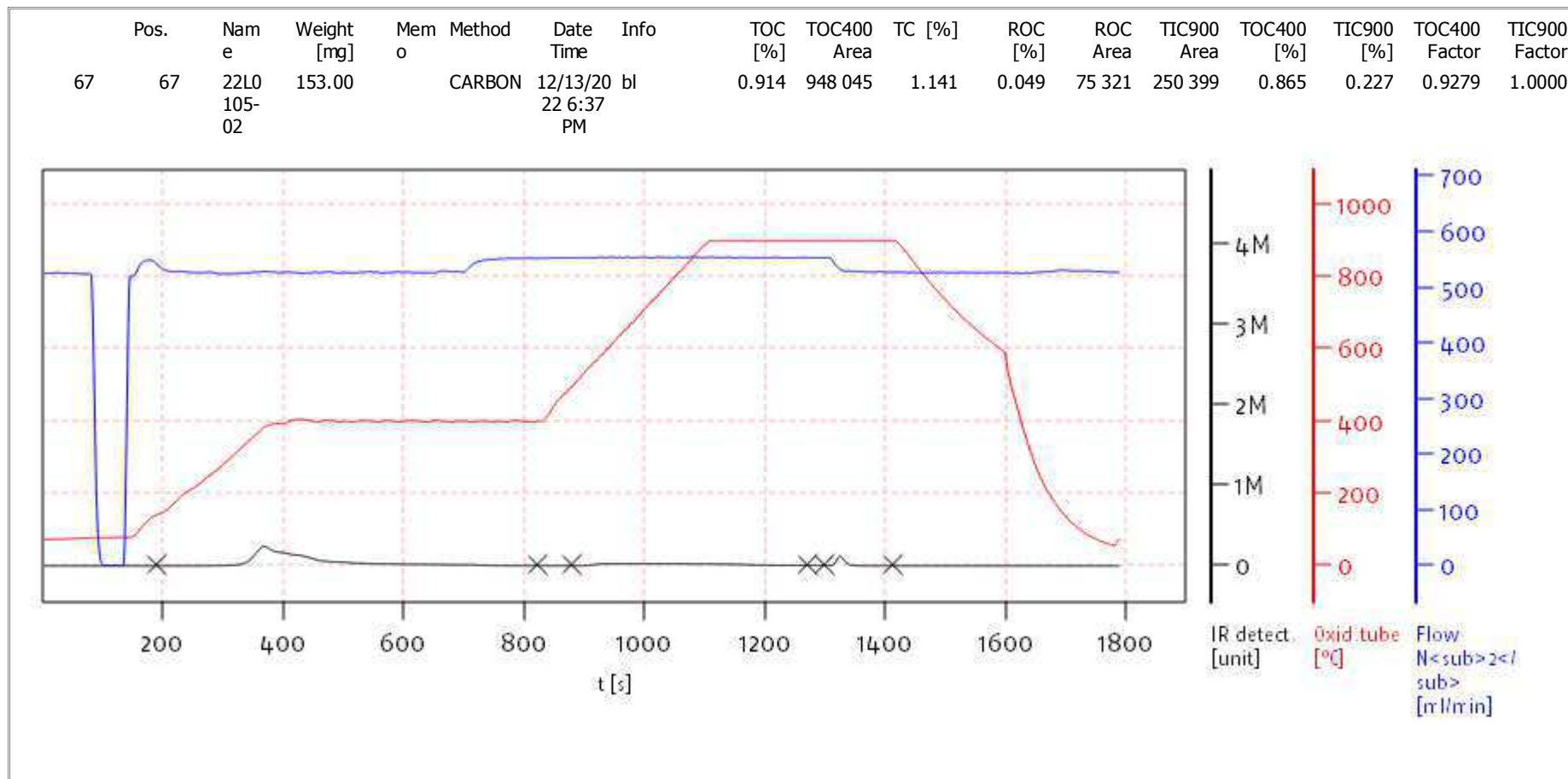
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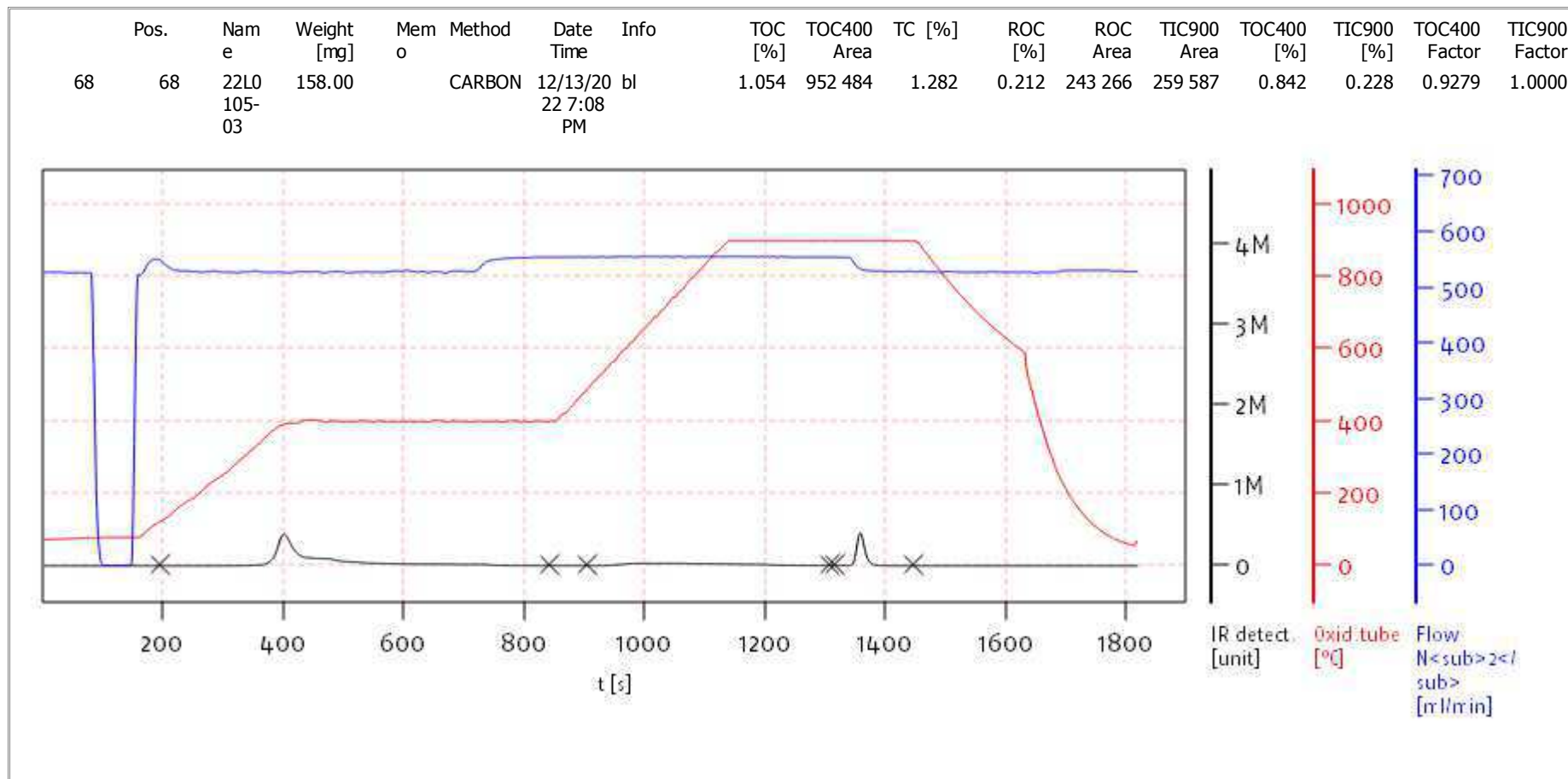
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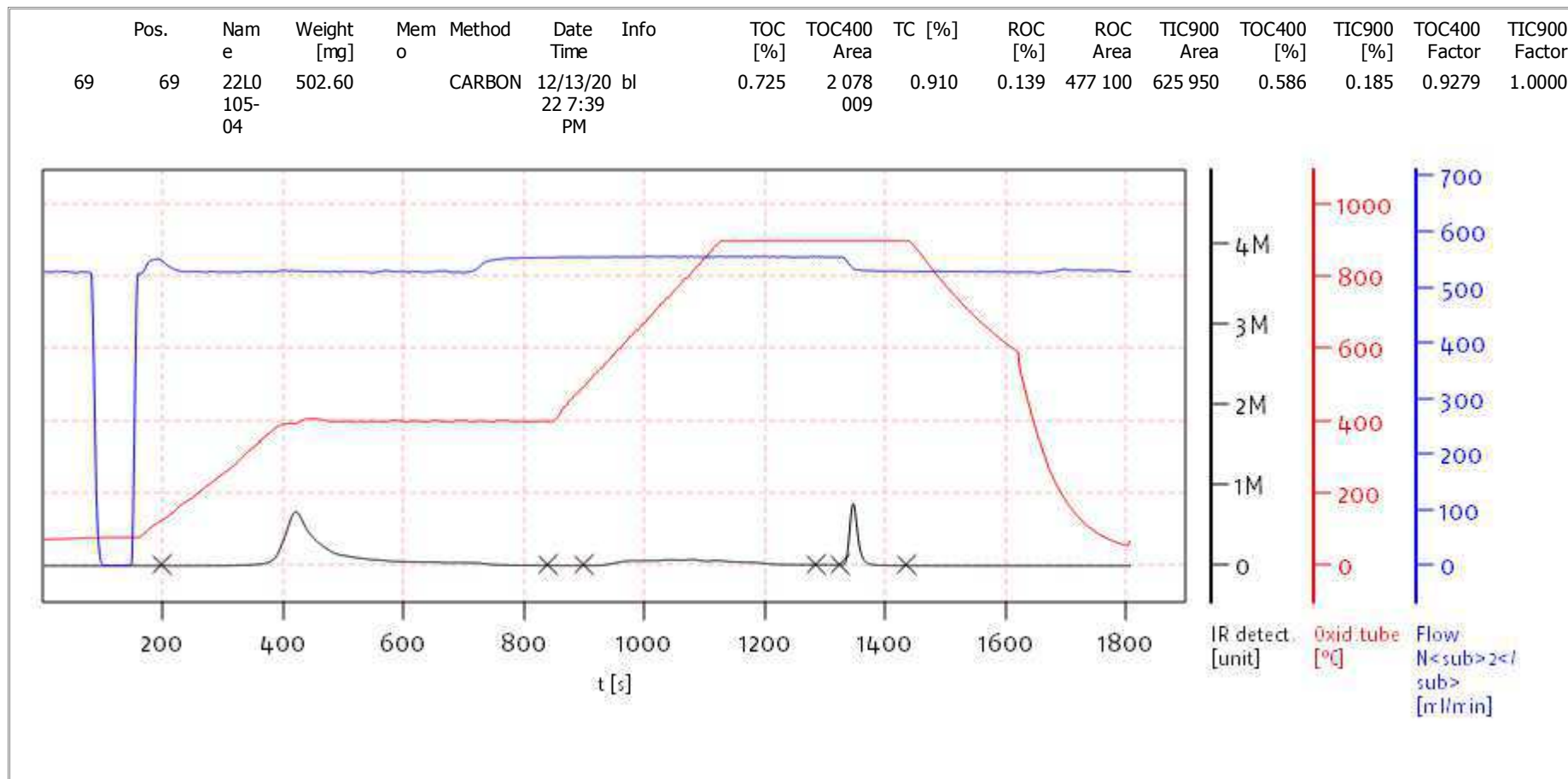
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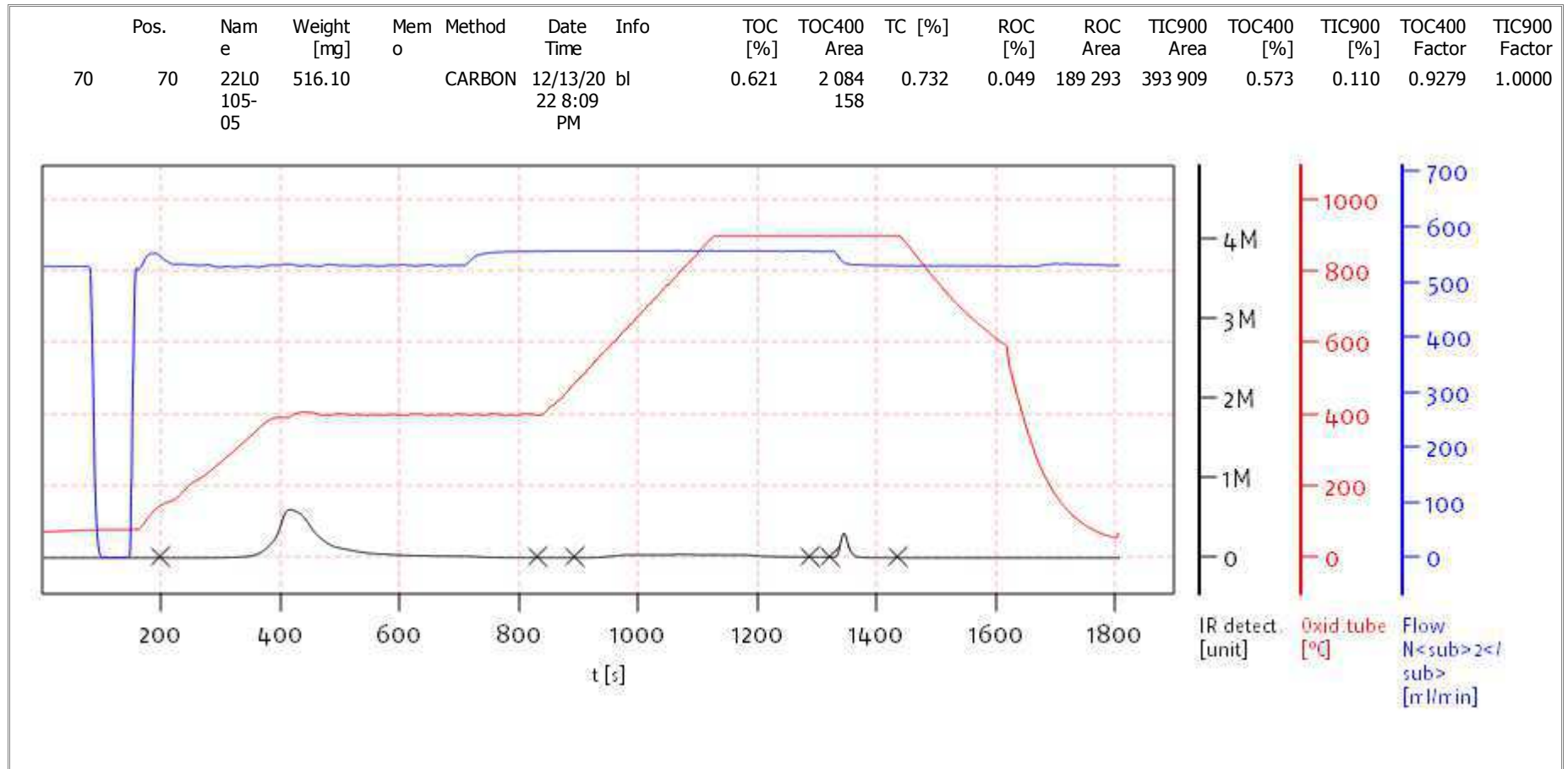
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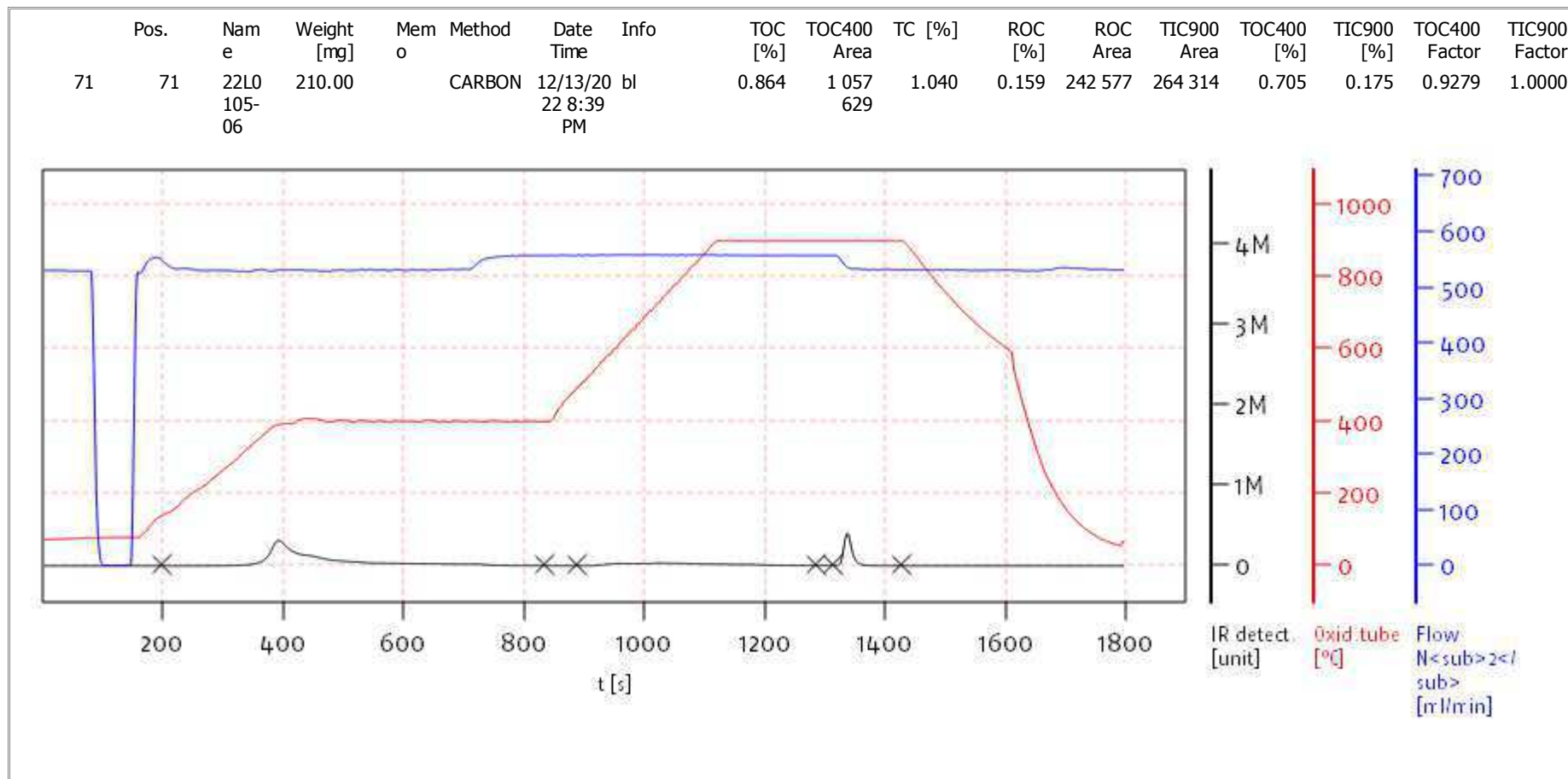
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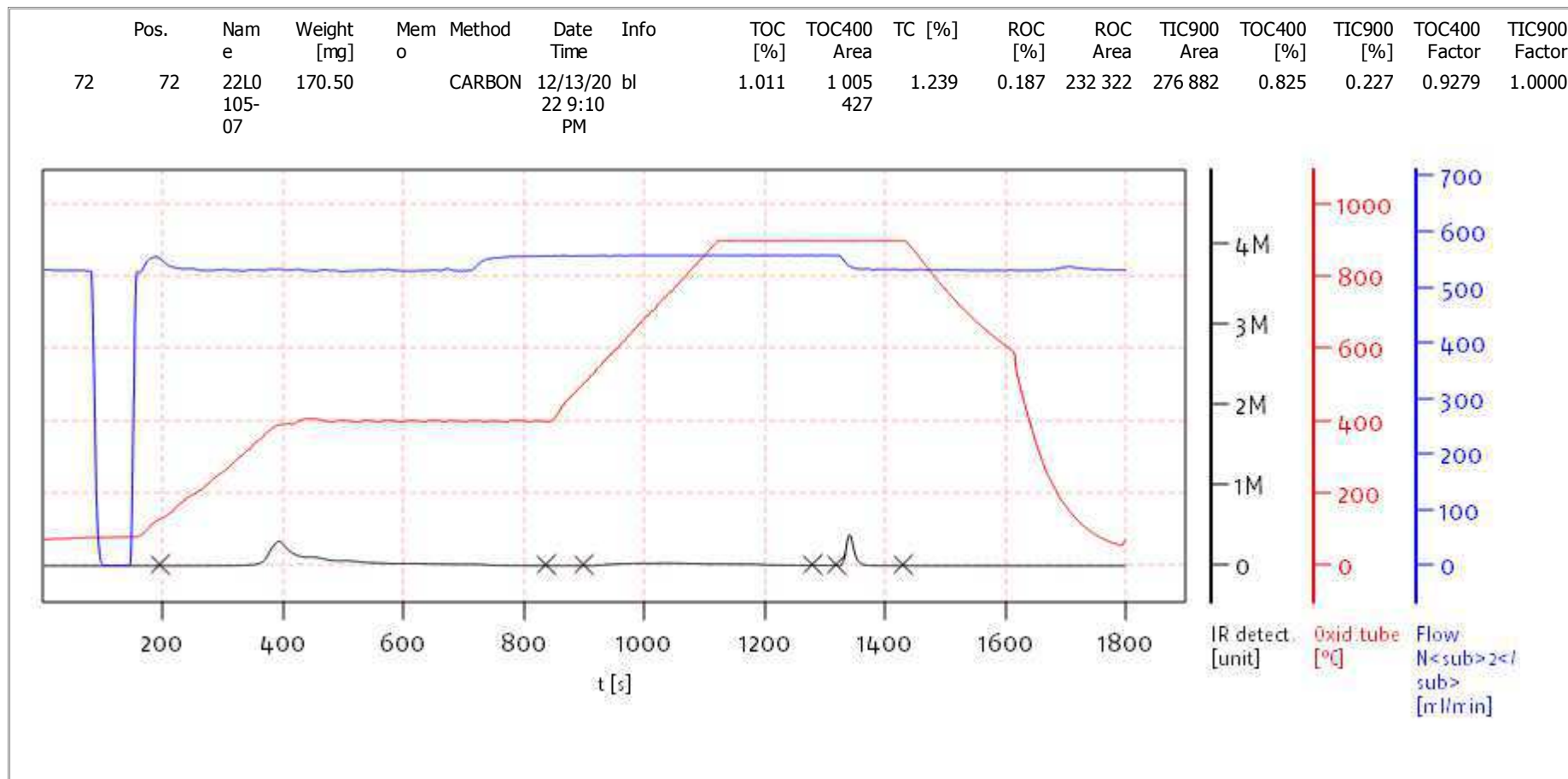
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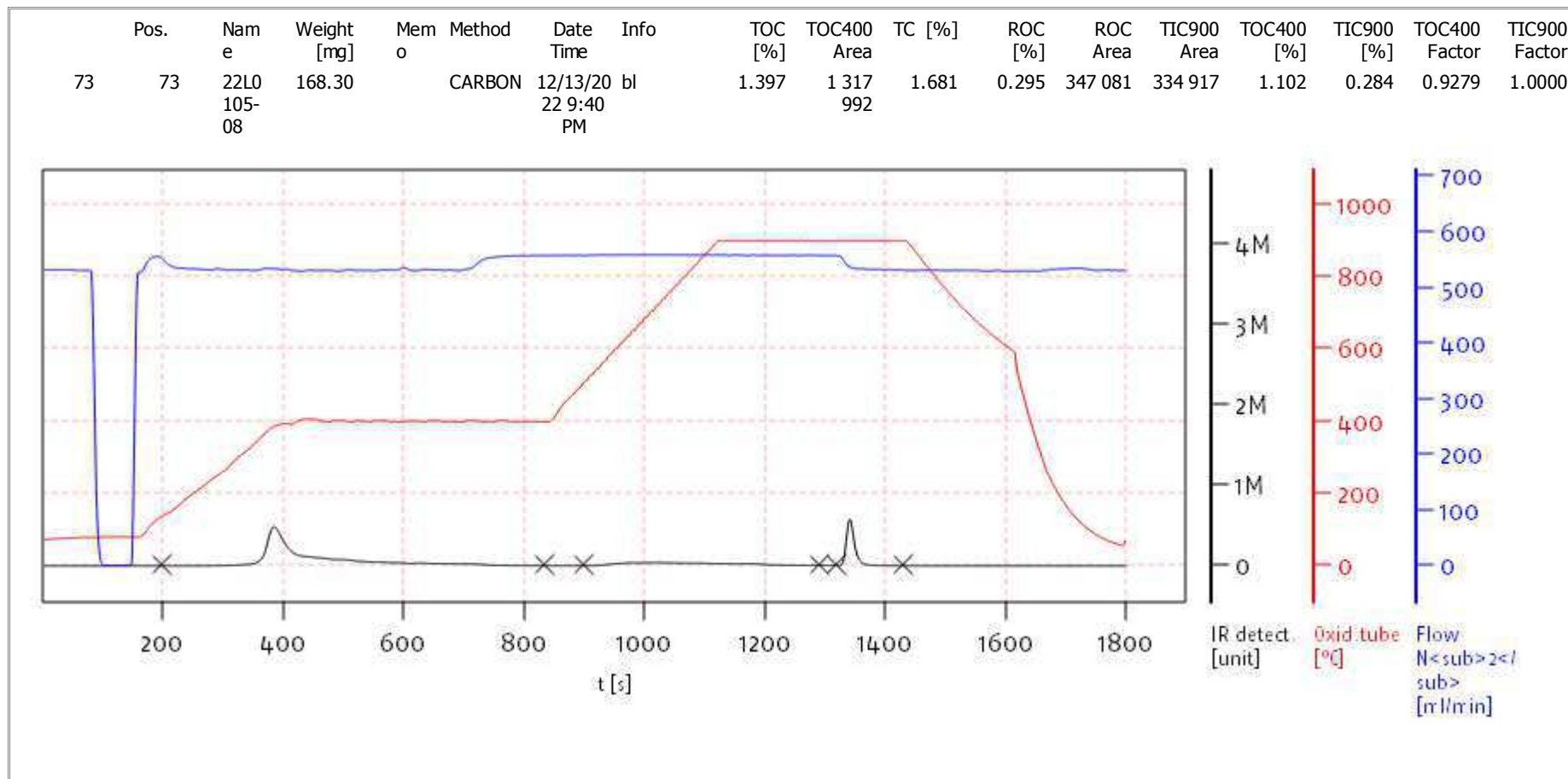
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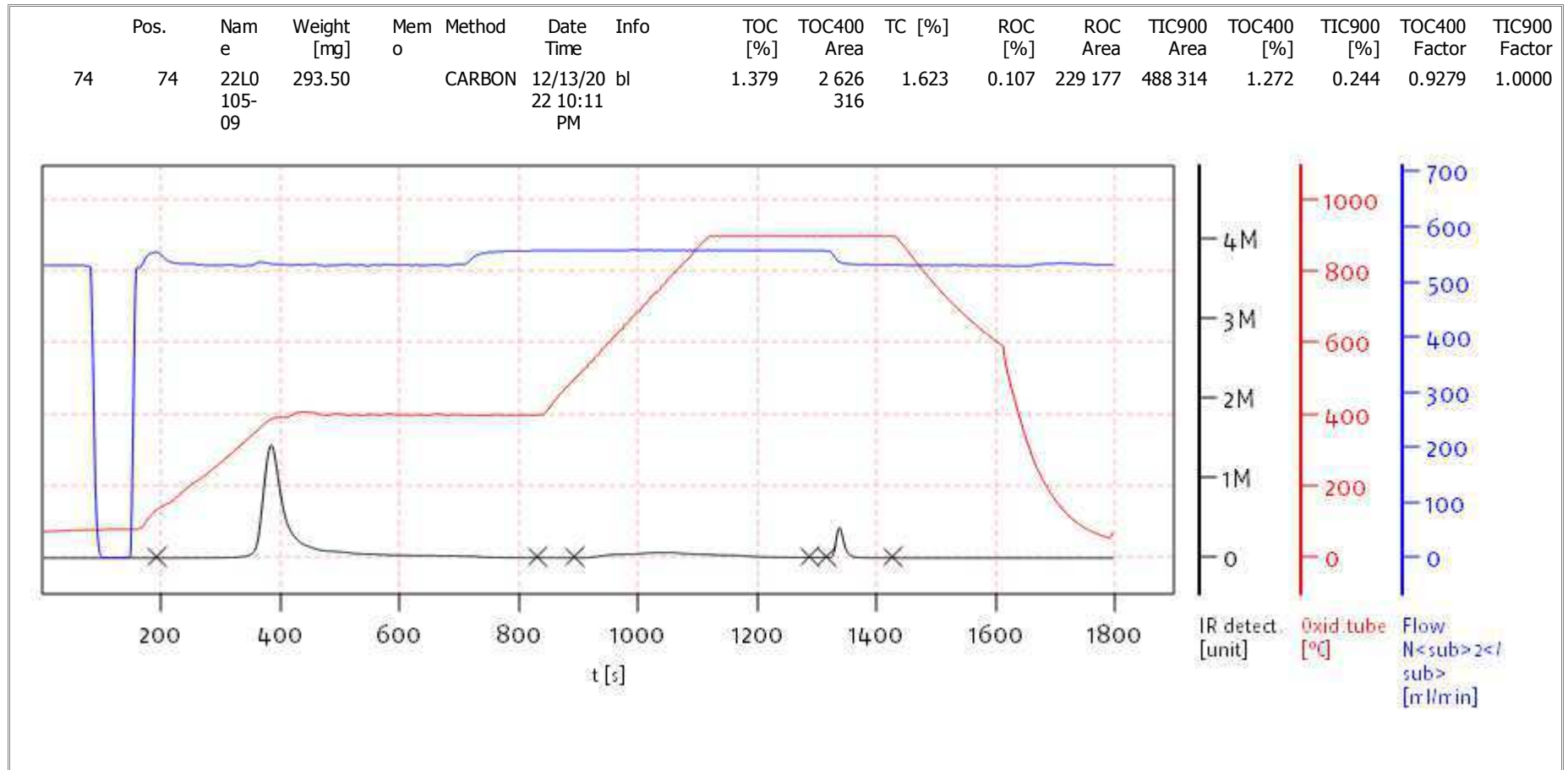
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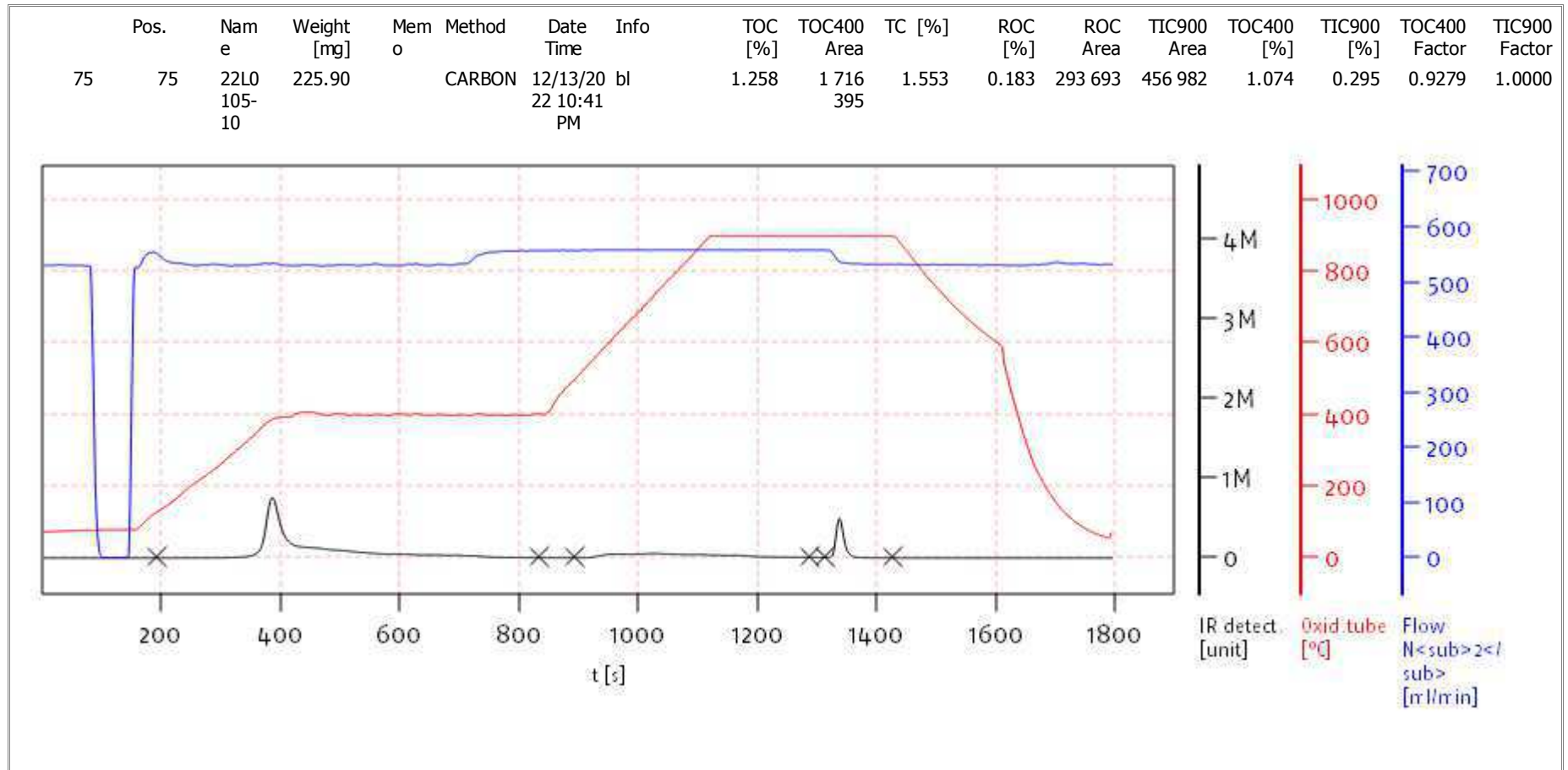
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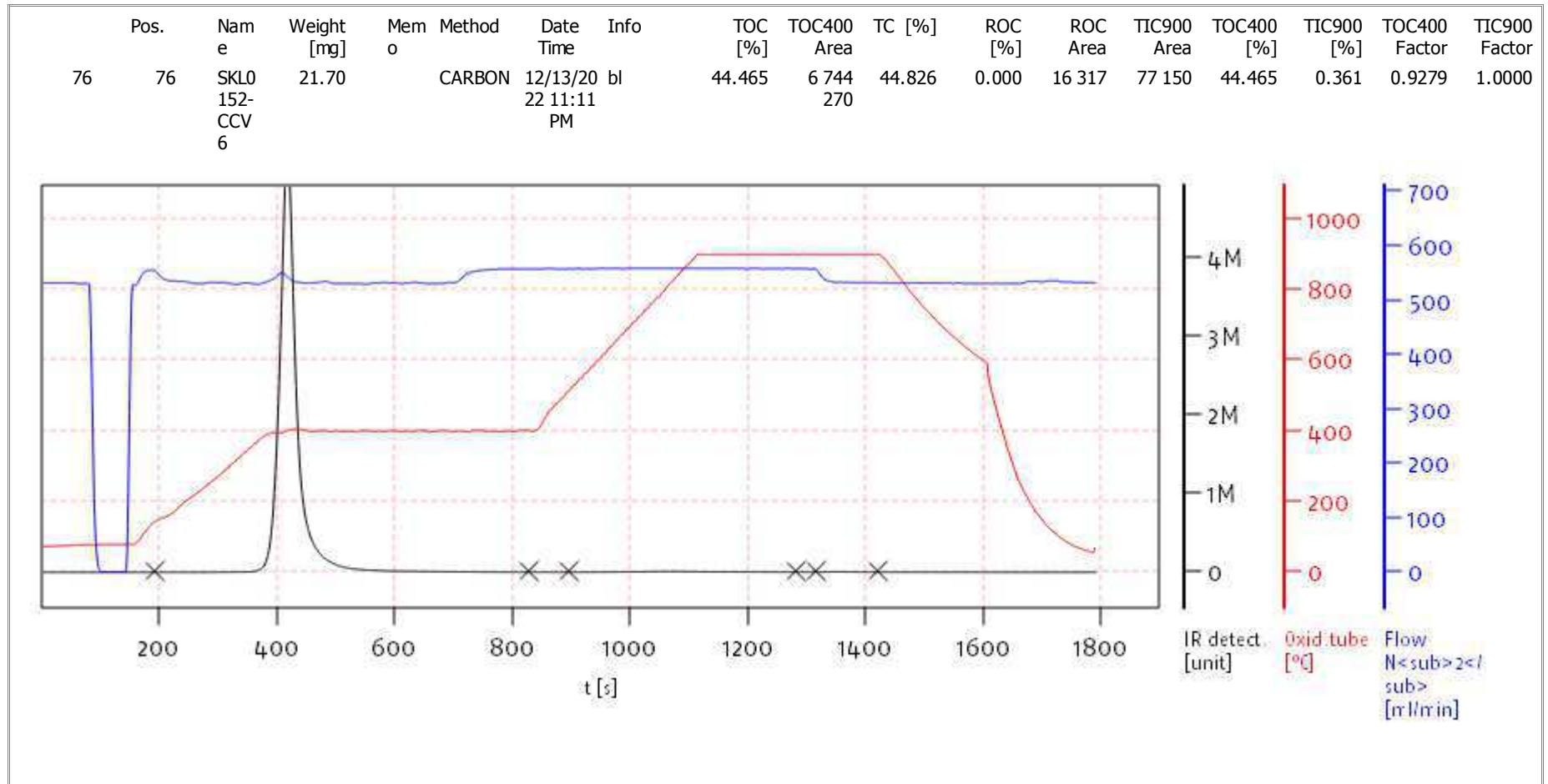
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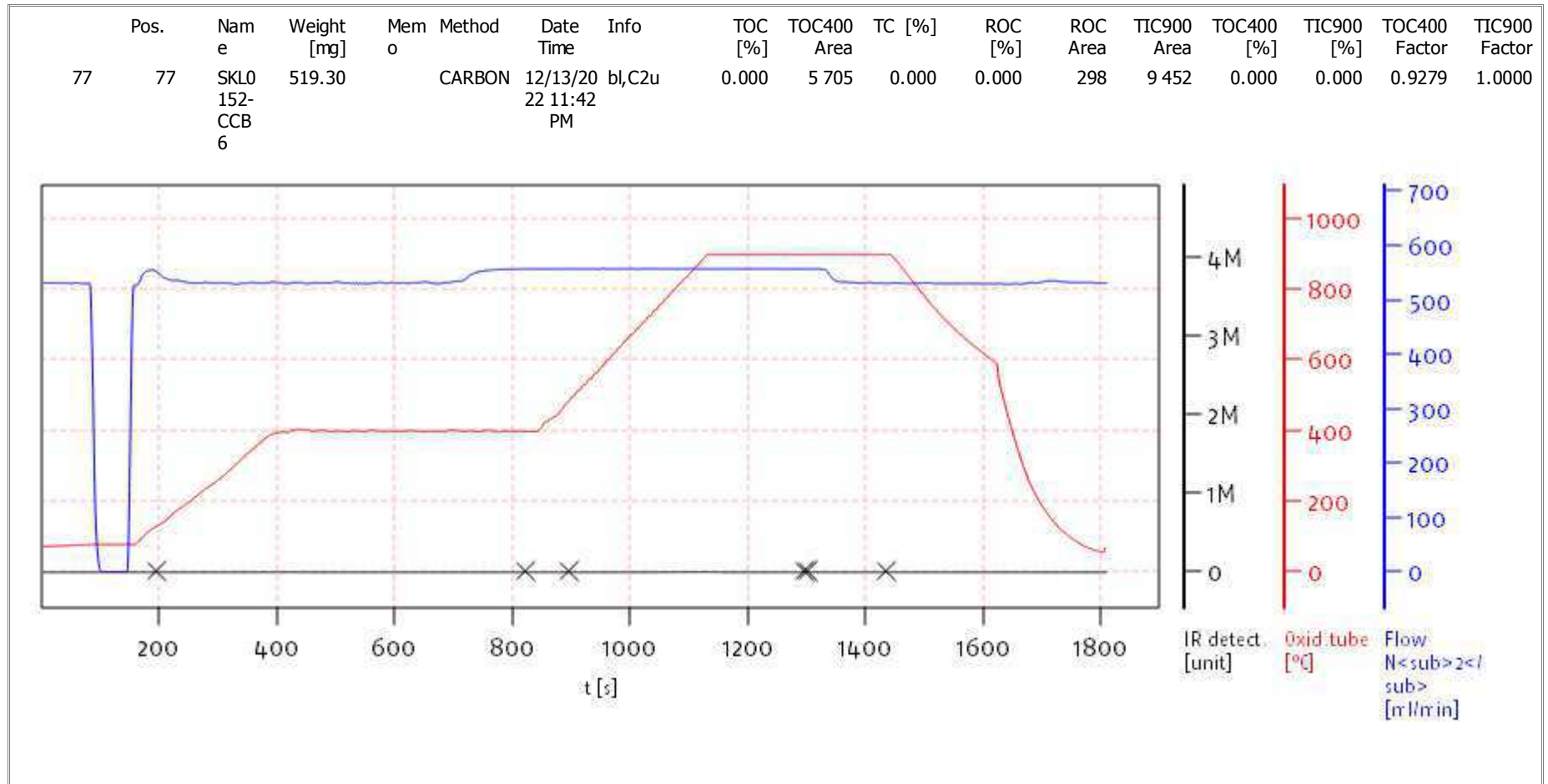
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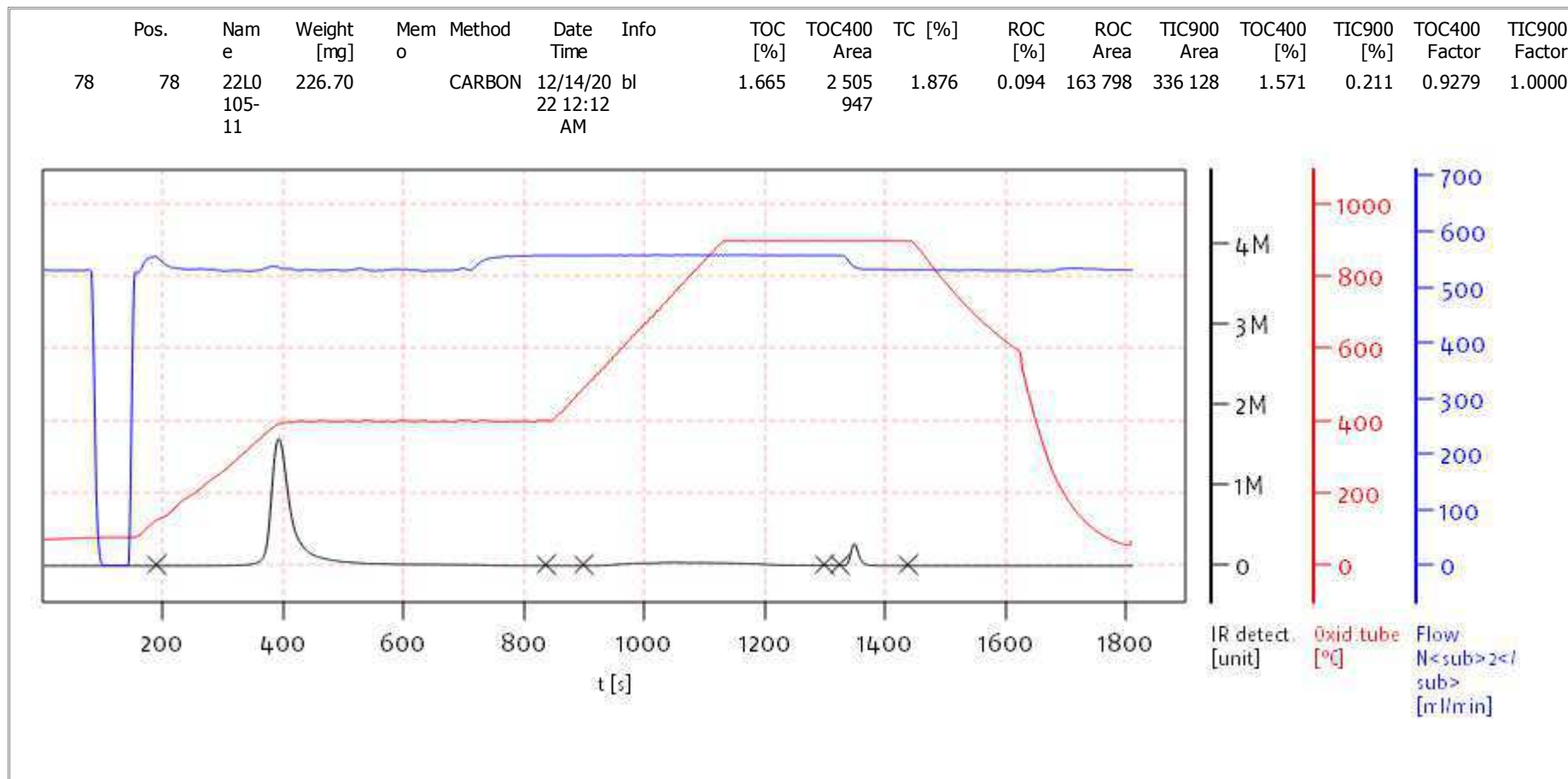
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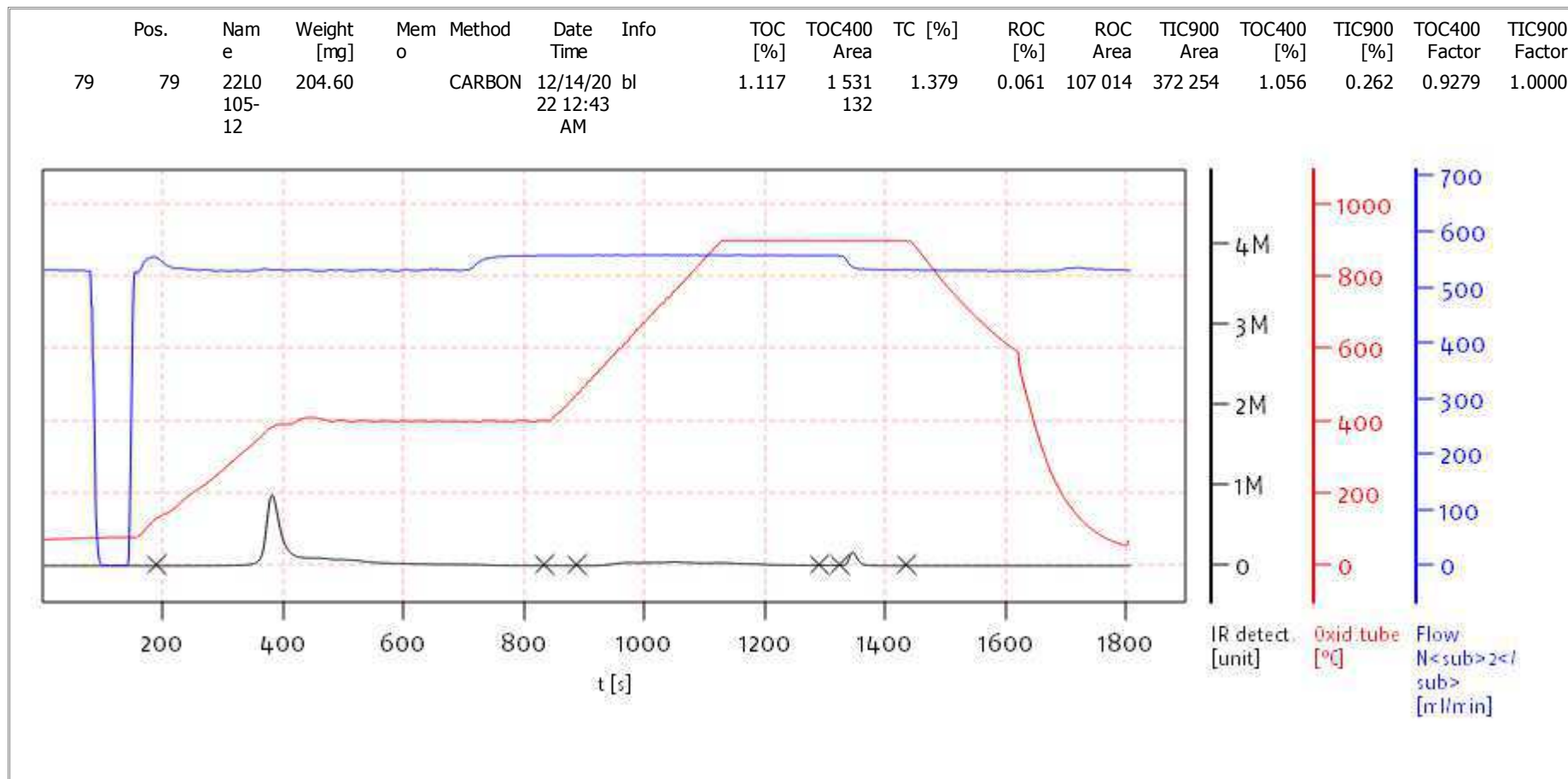
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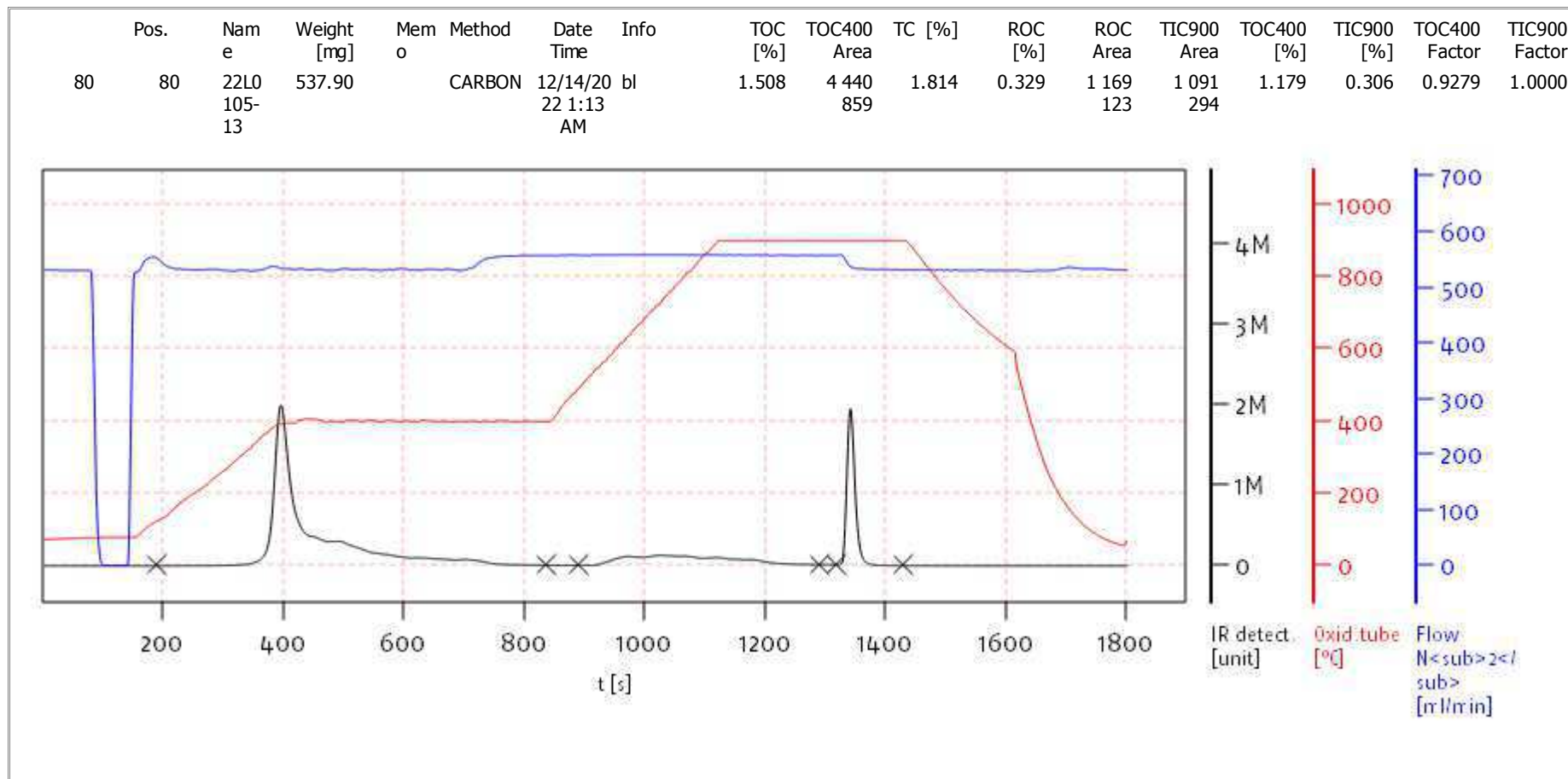
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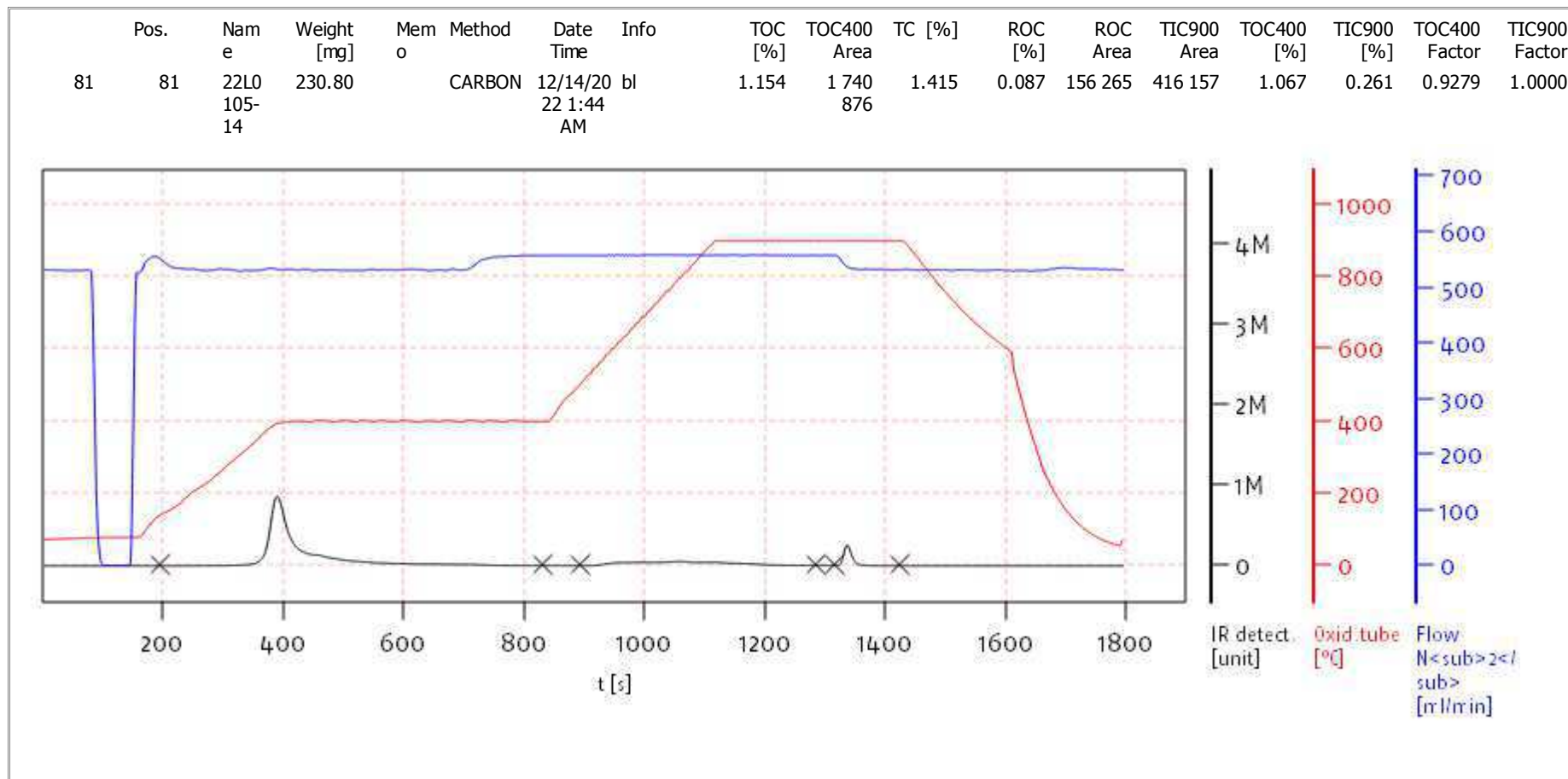
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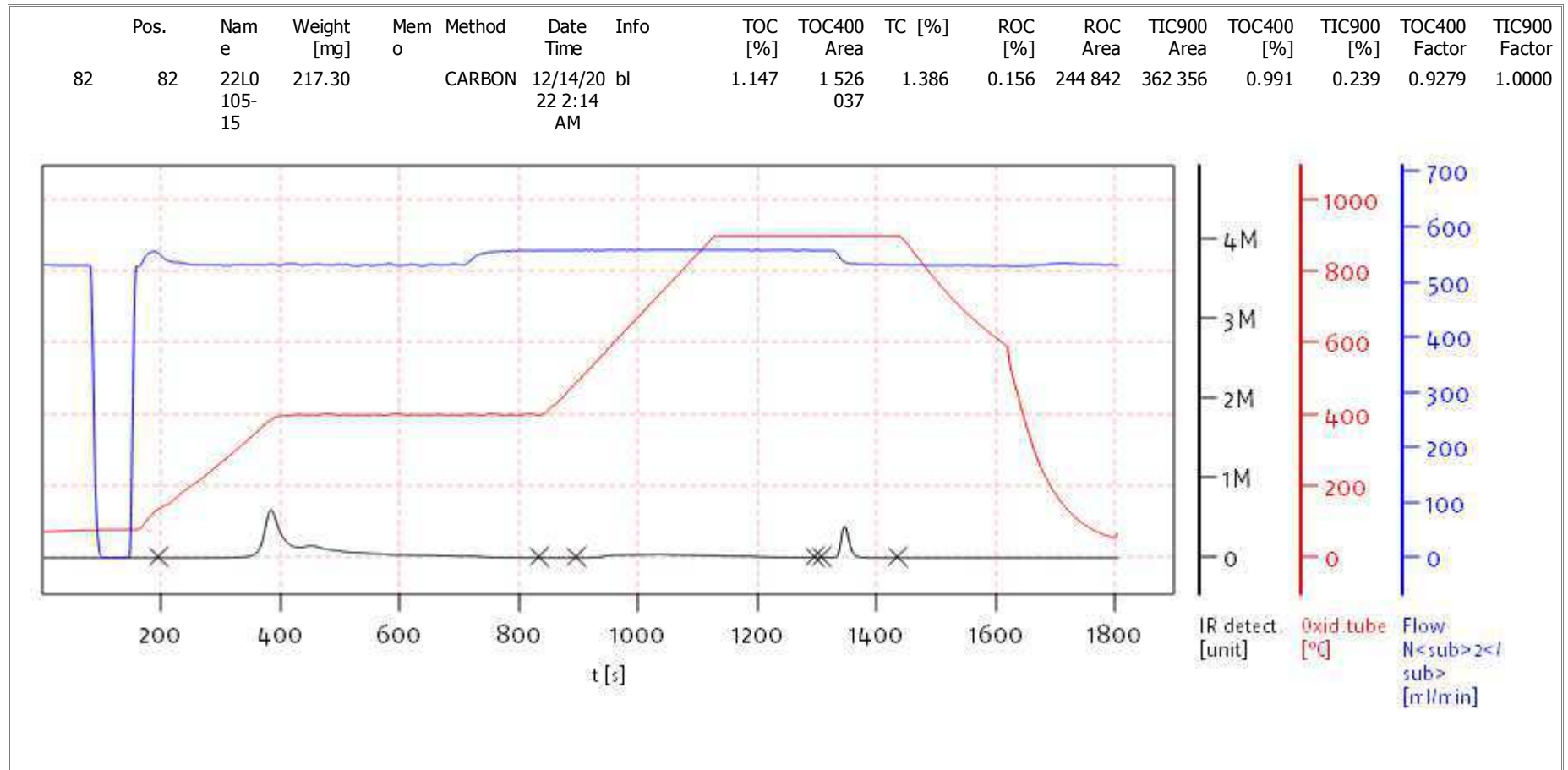
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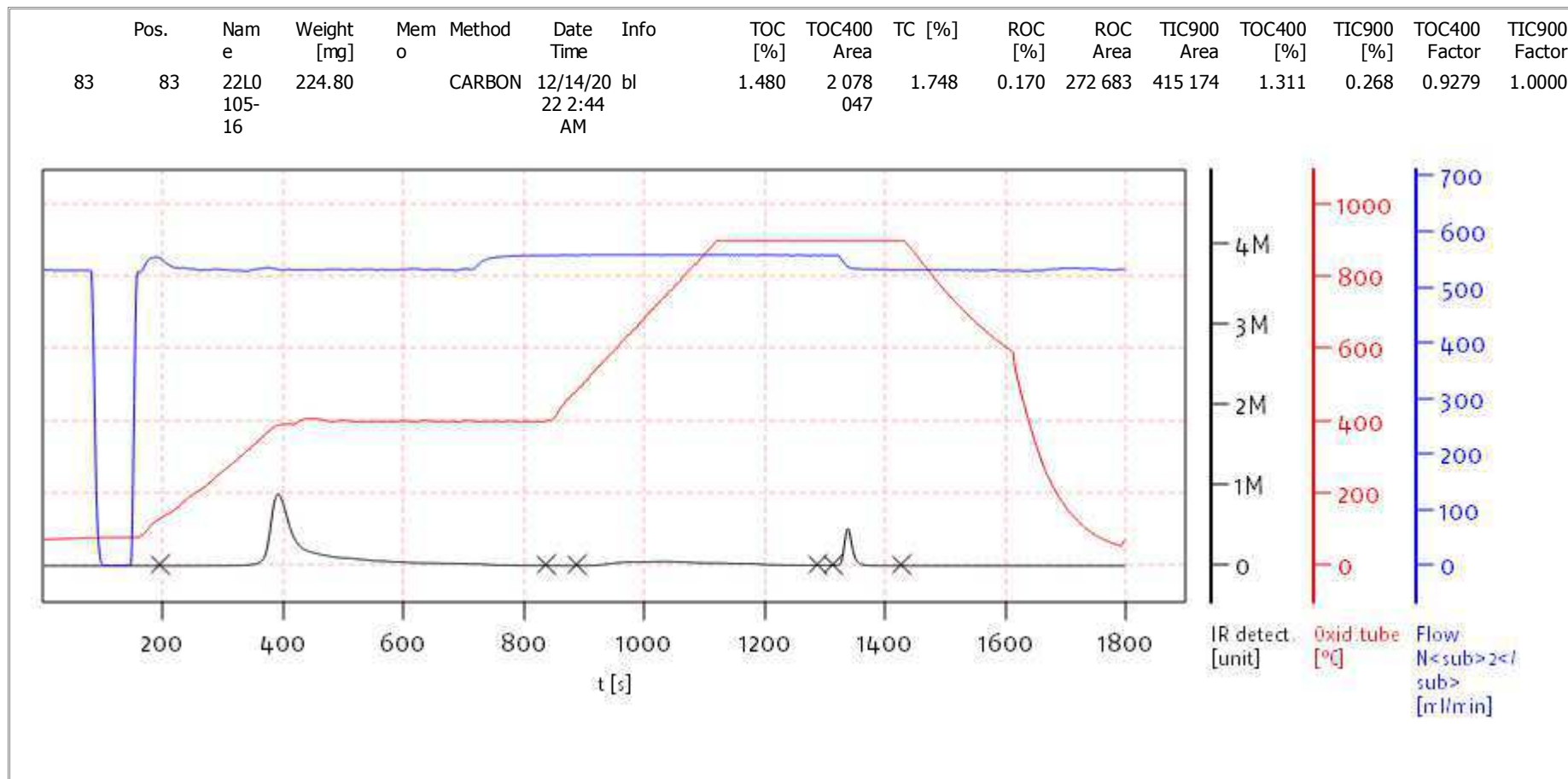
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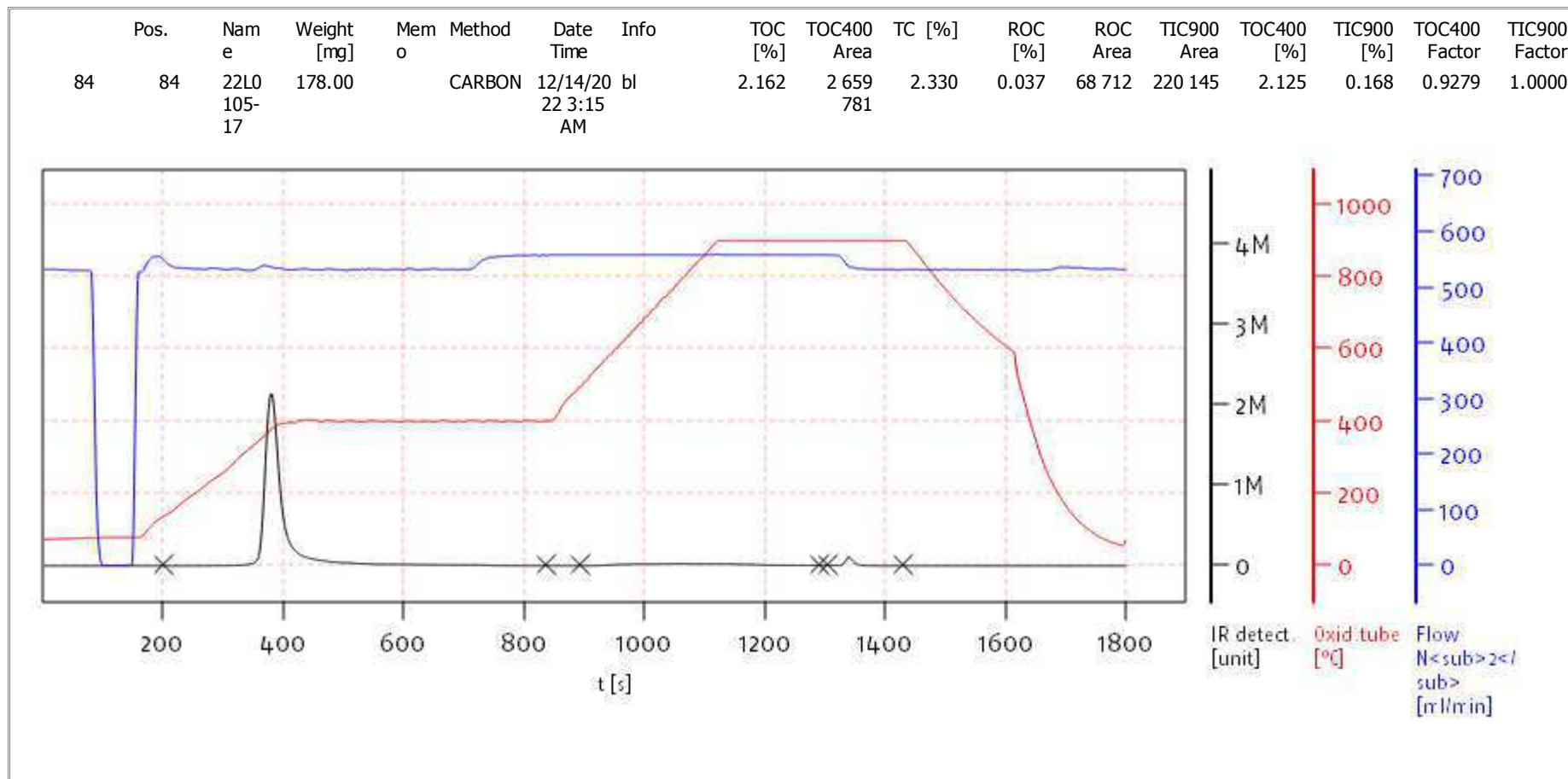
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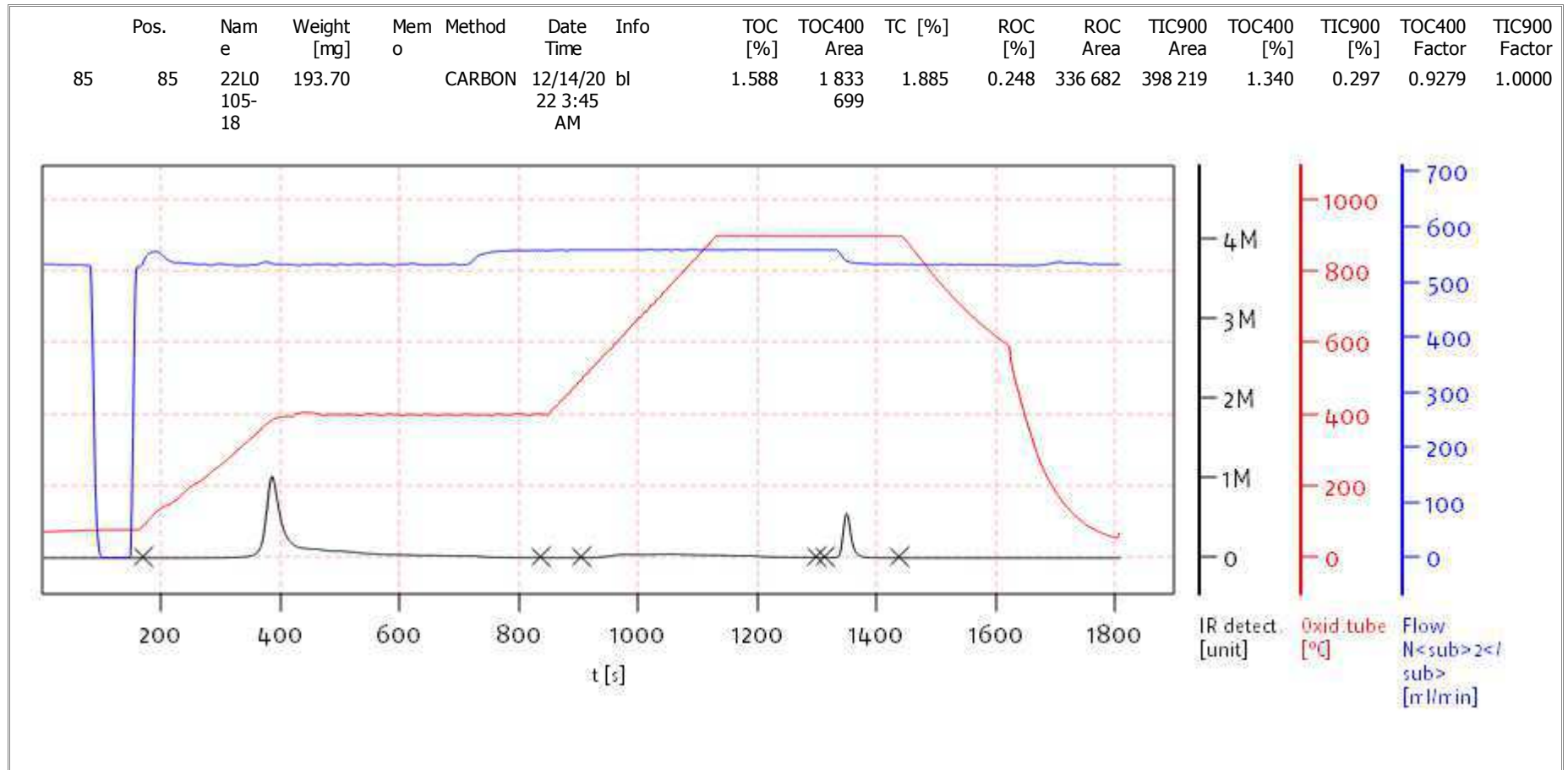
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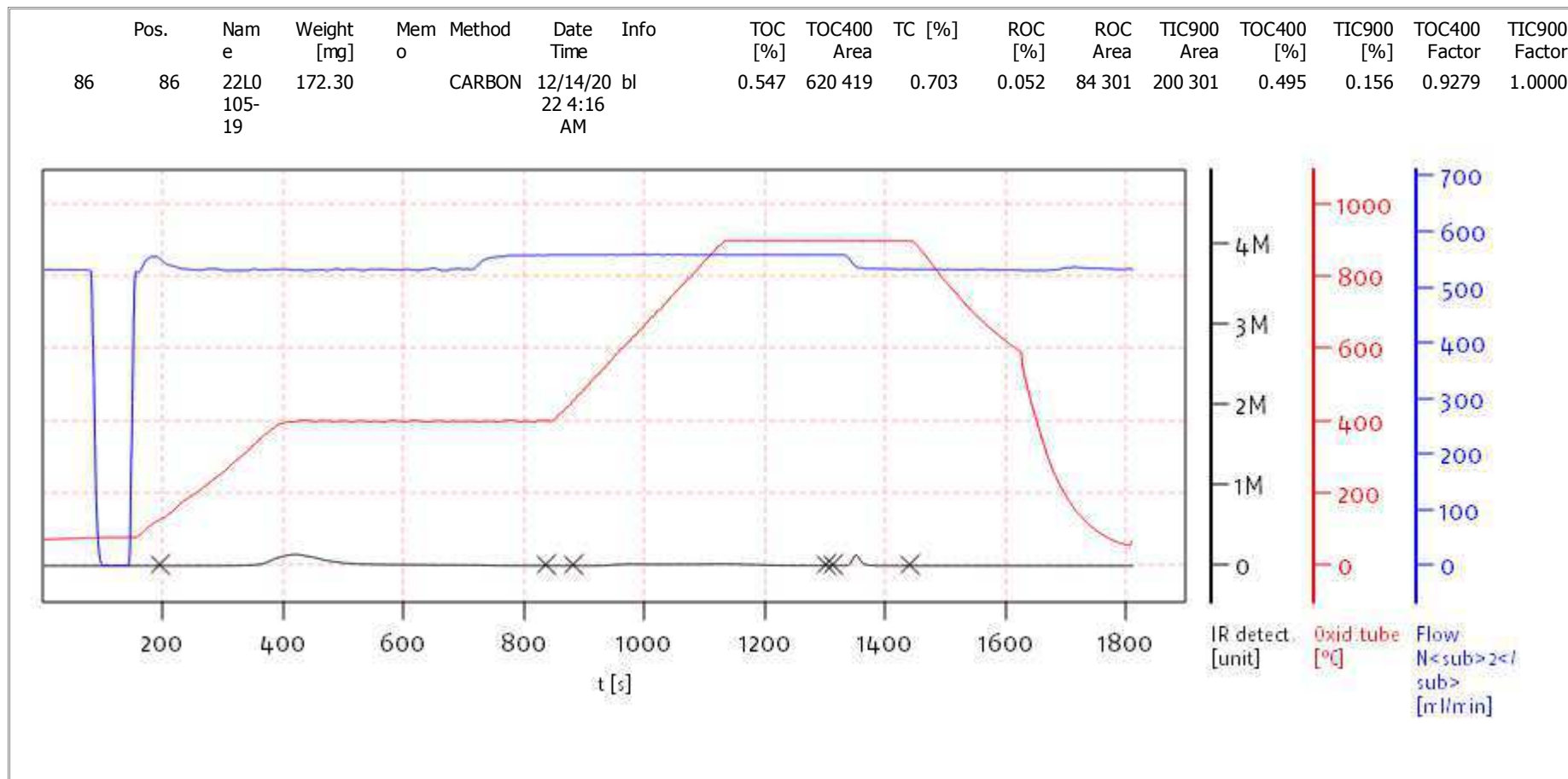
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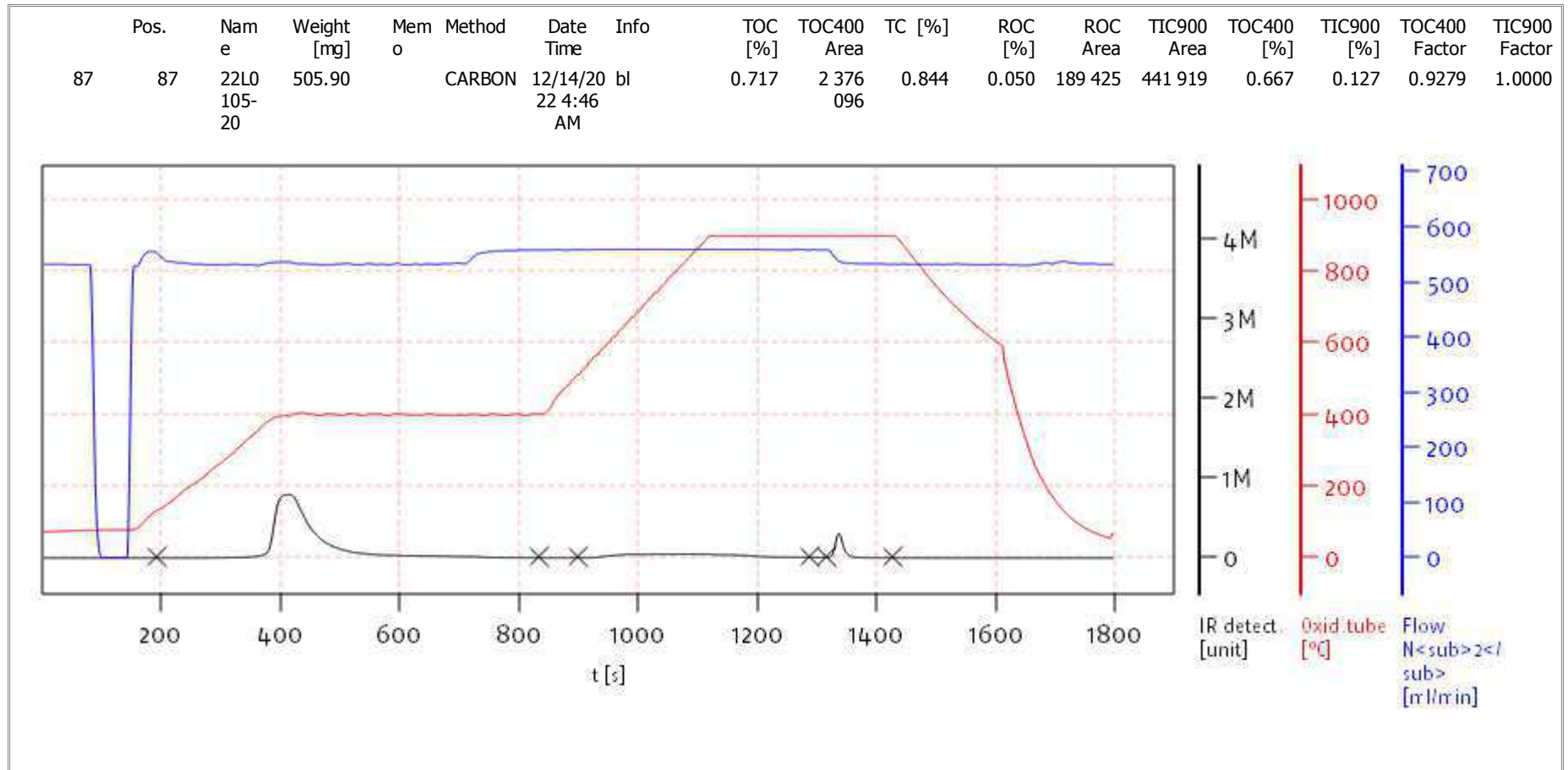
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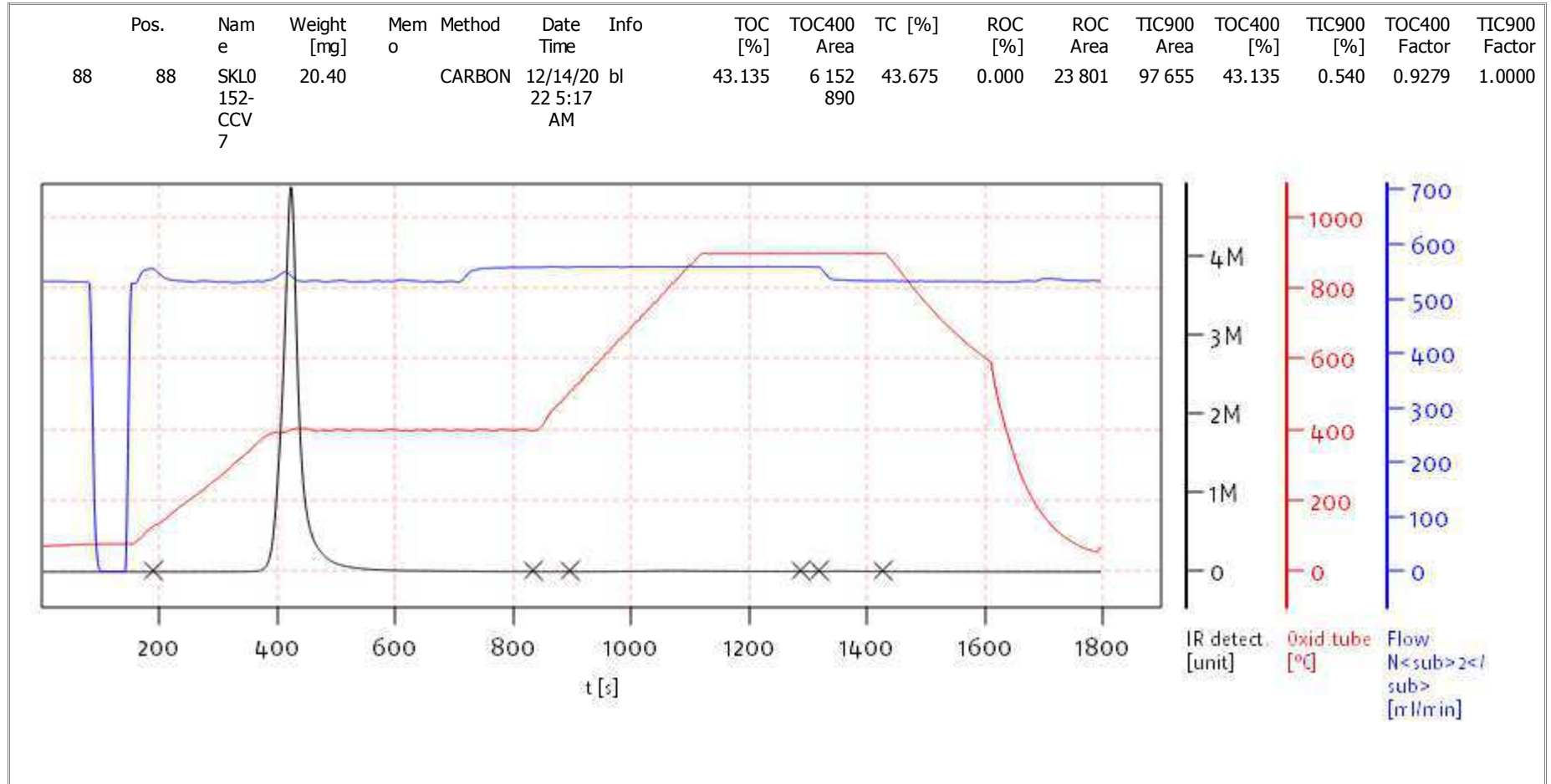
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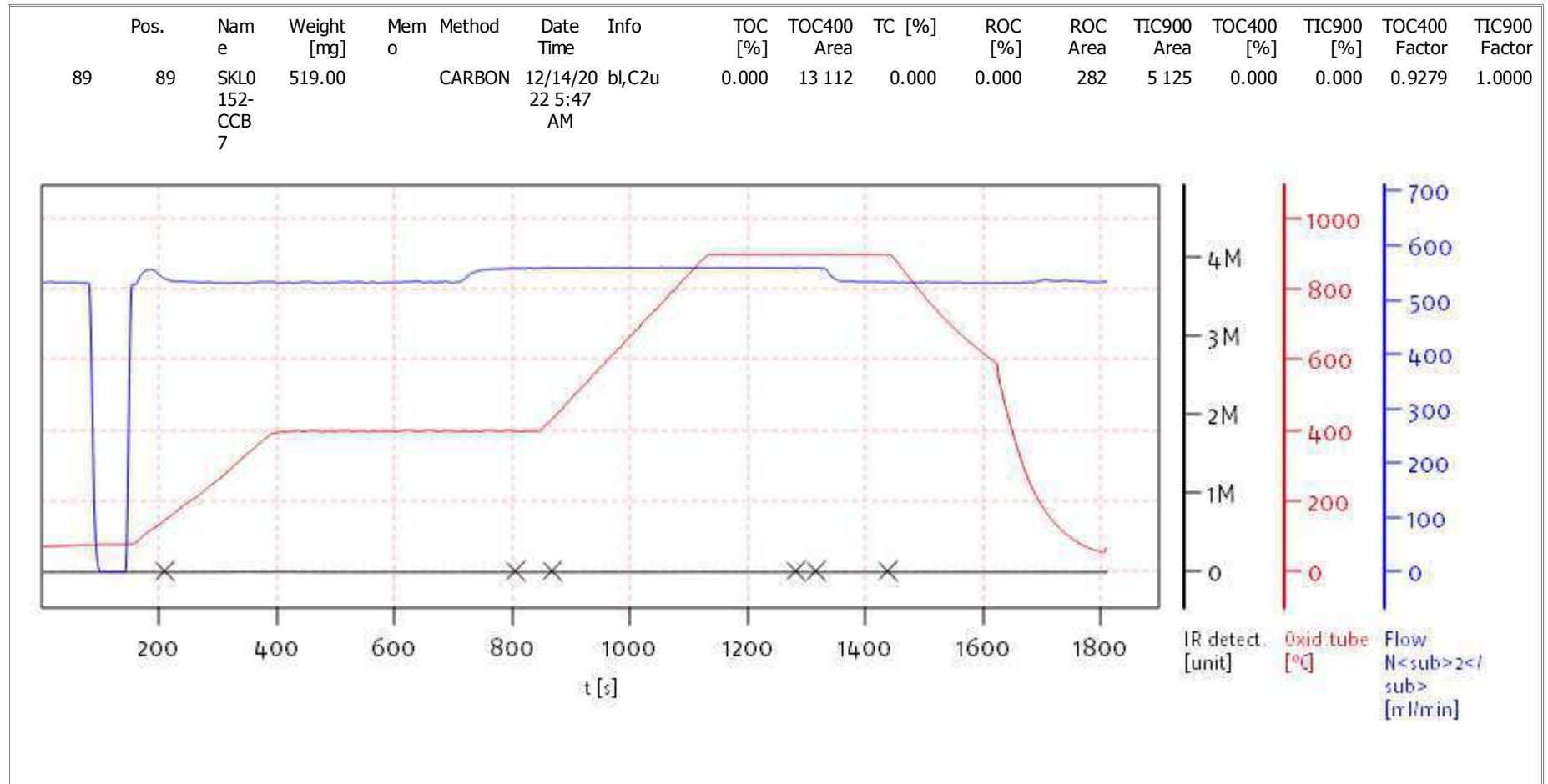
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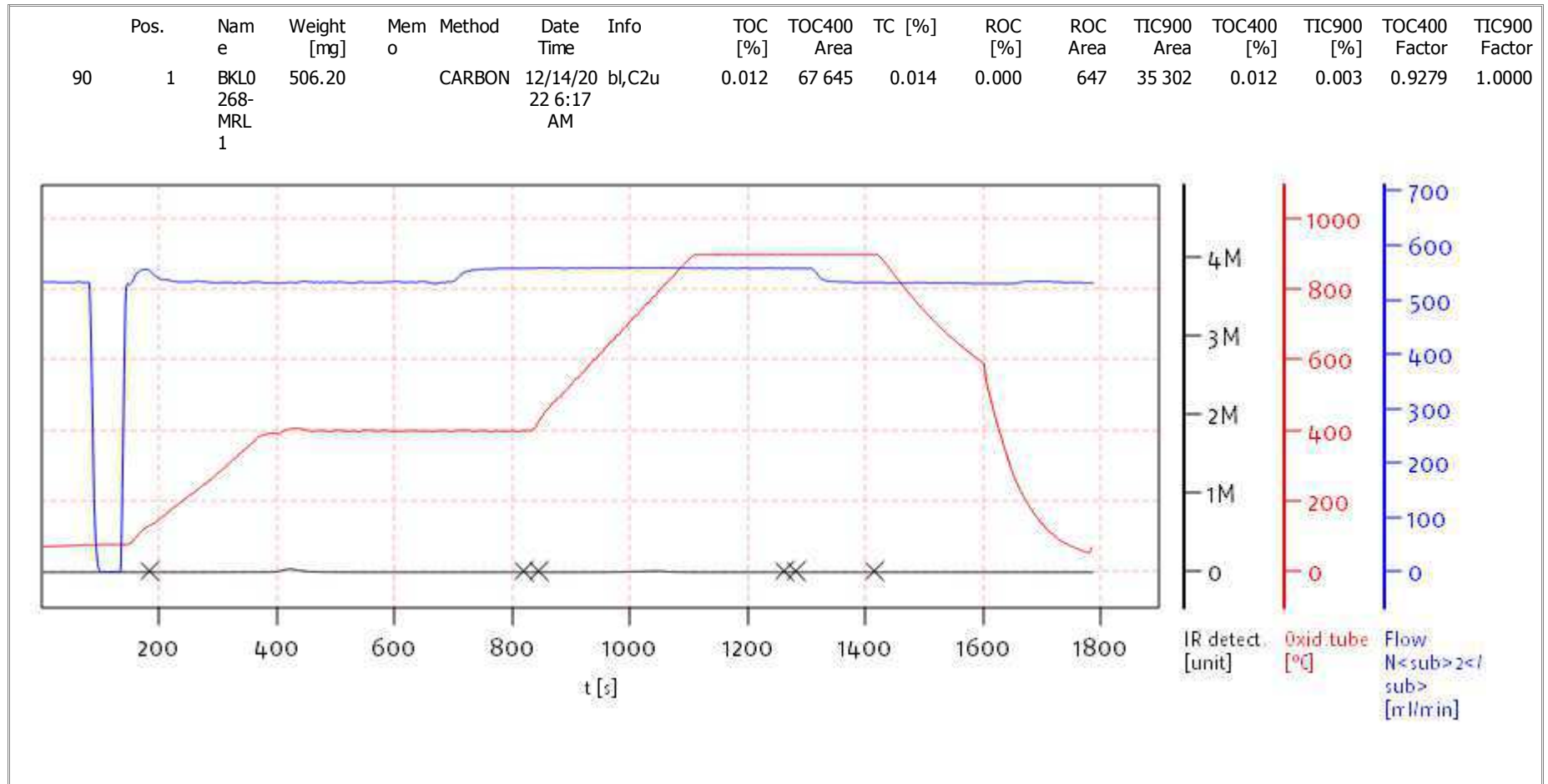
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



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Balance: BAL3
Analyst: DOE



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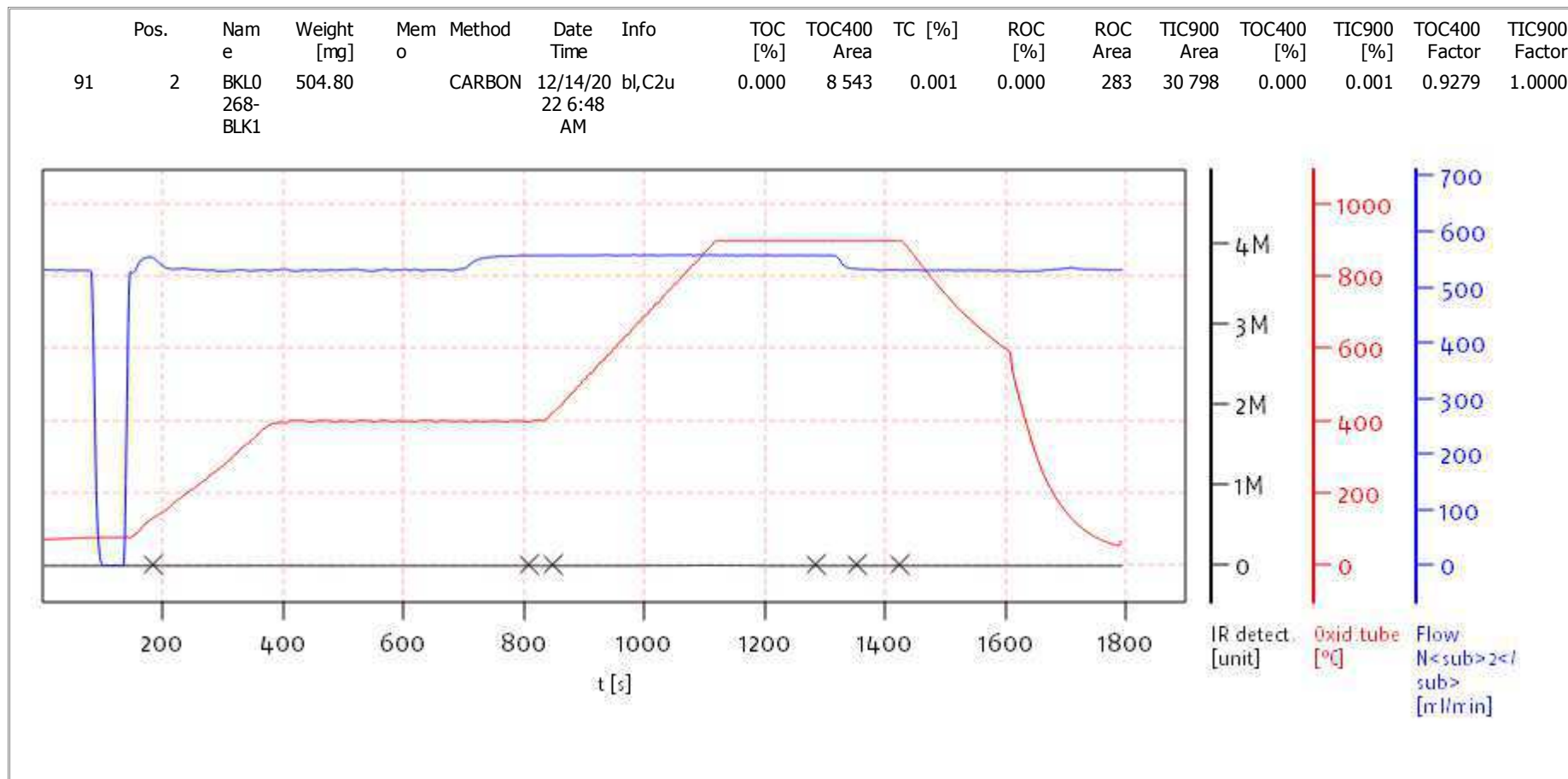
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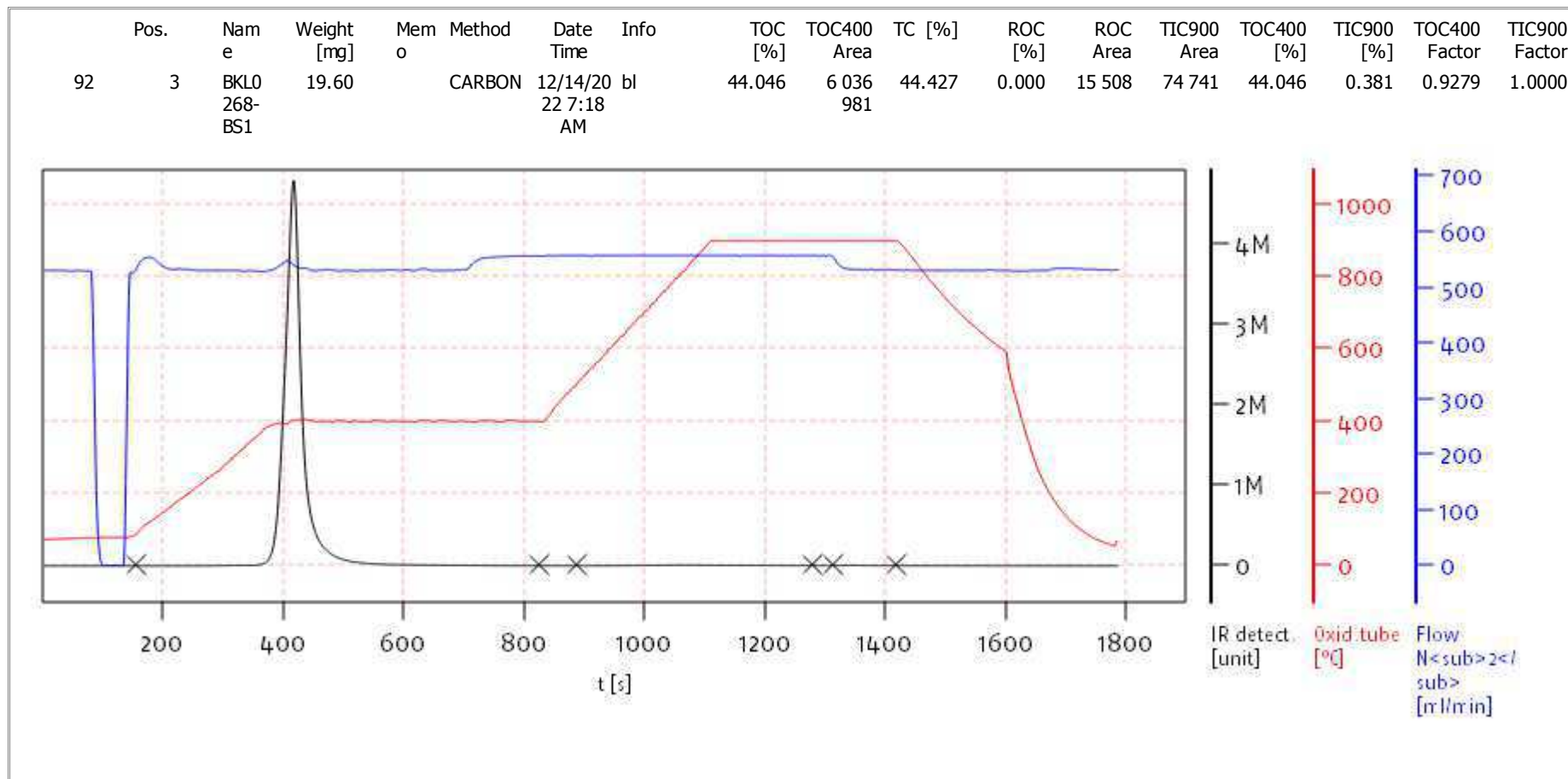
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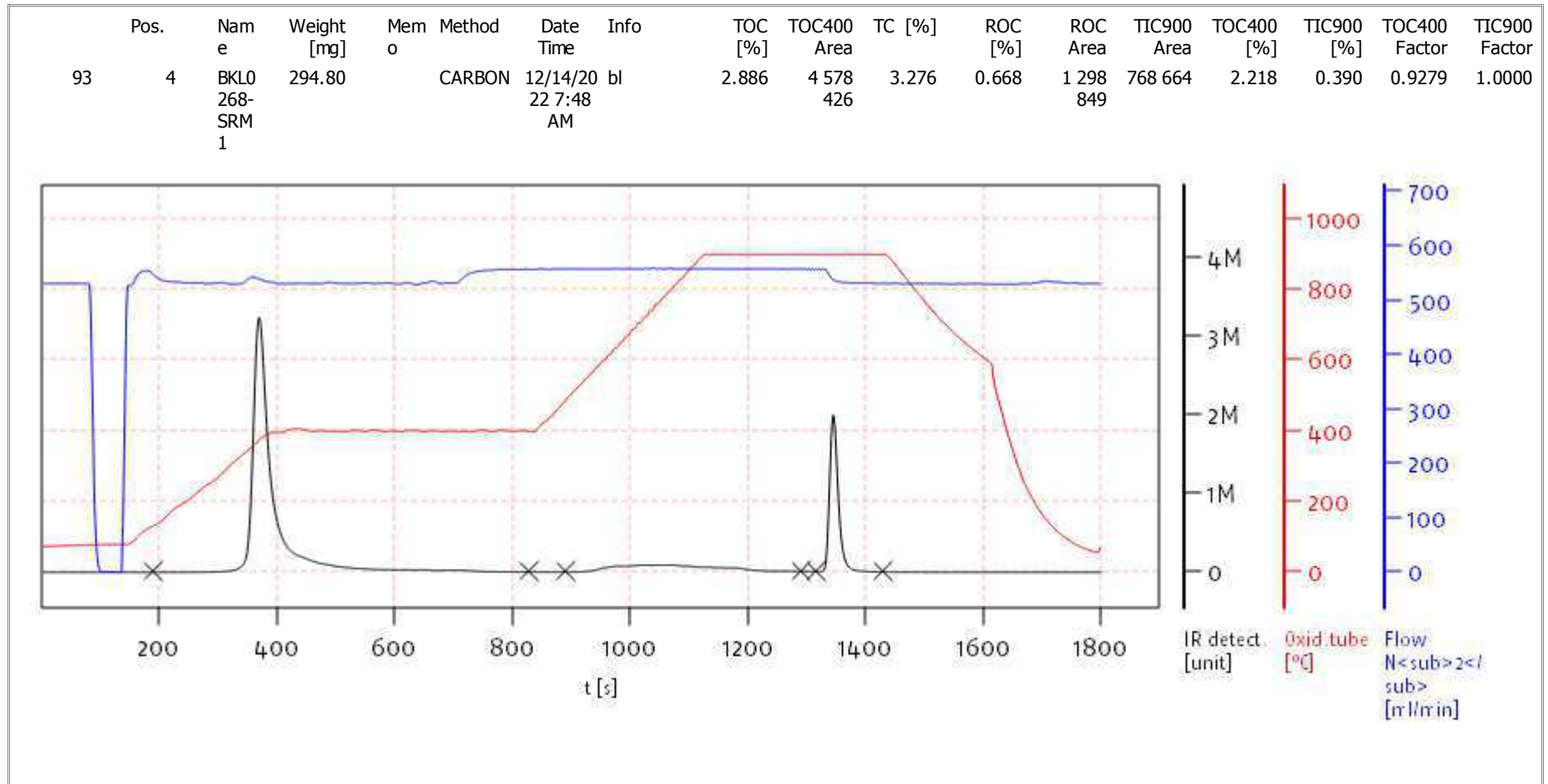
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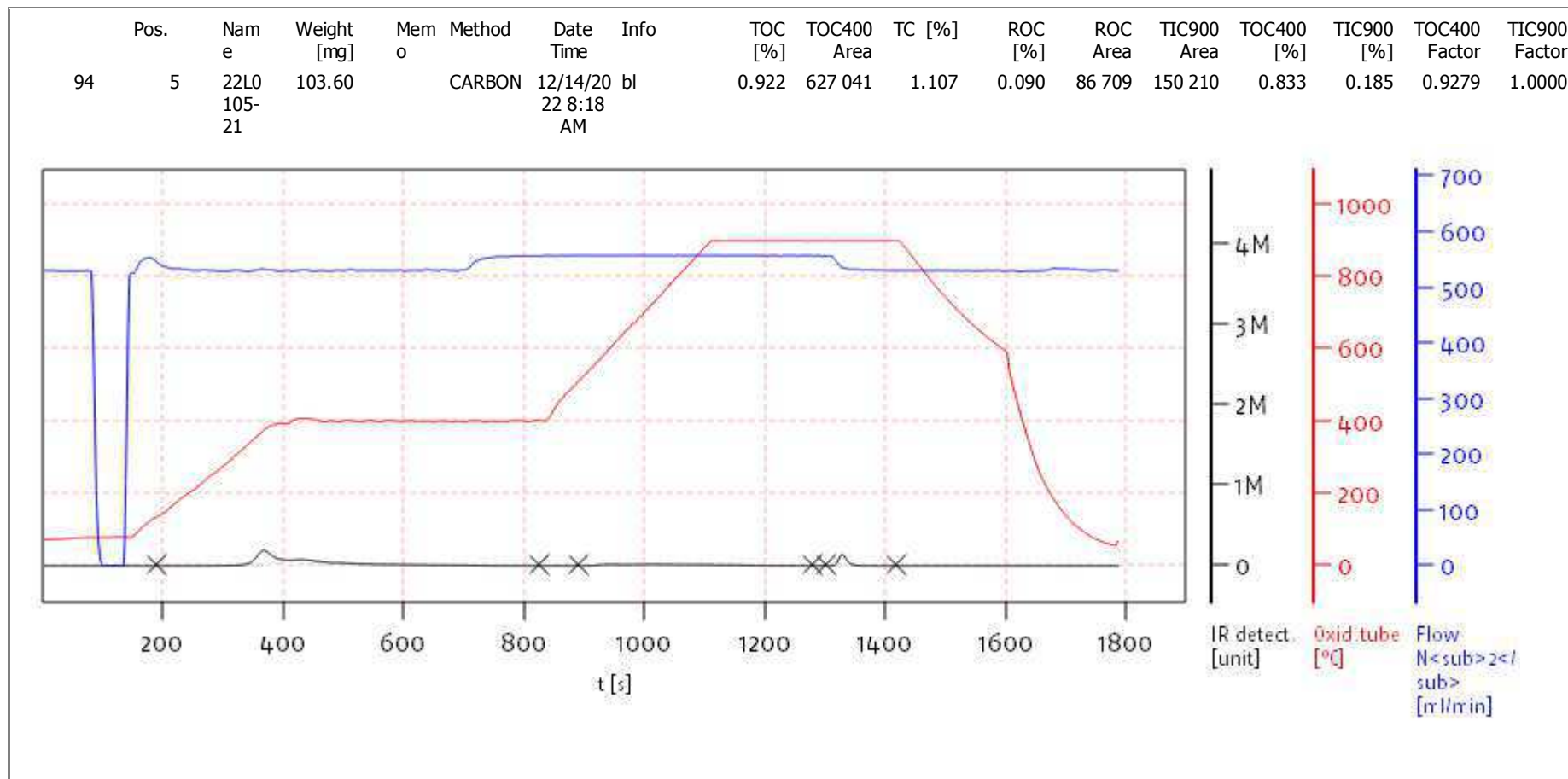
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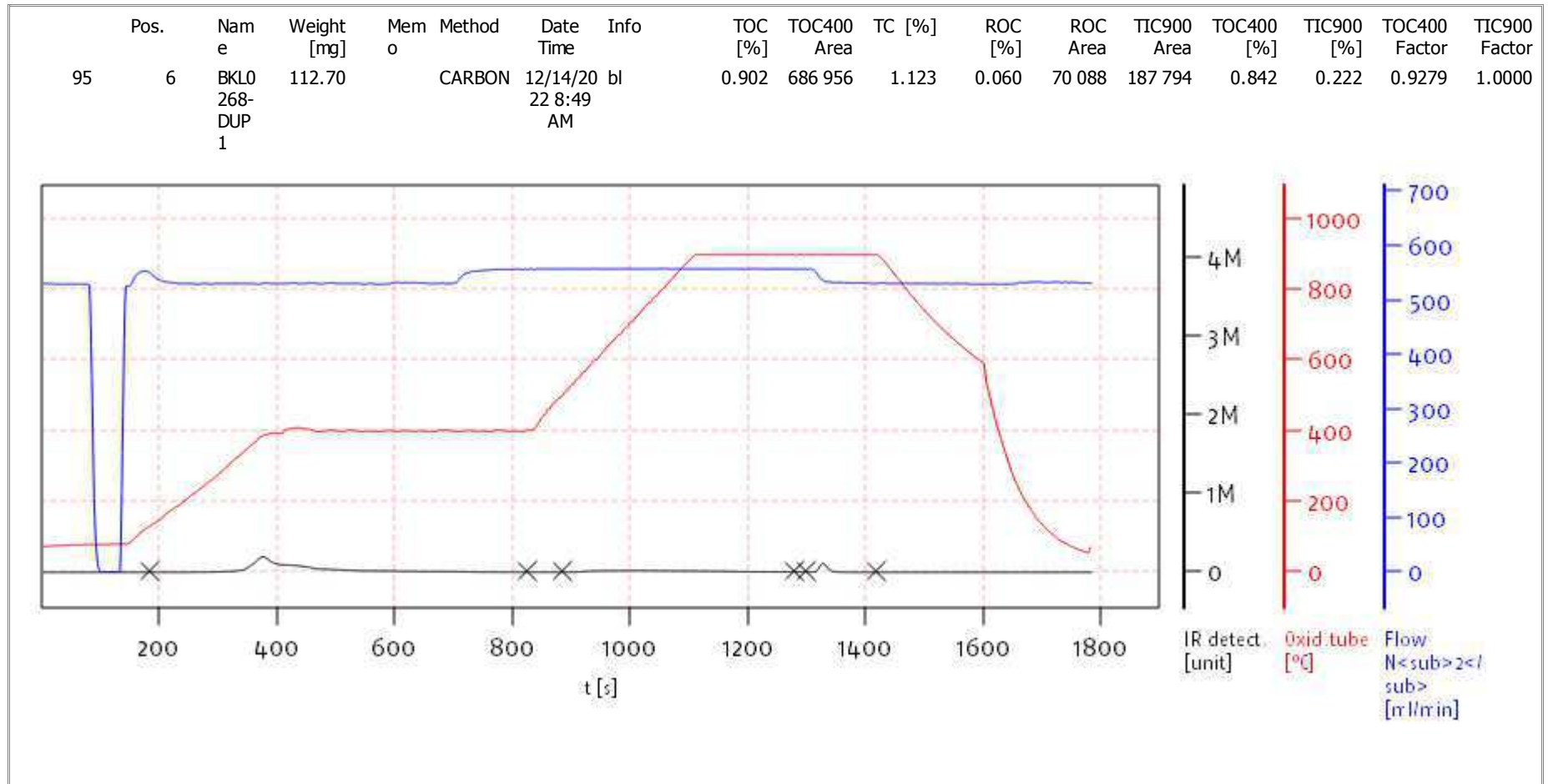
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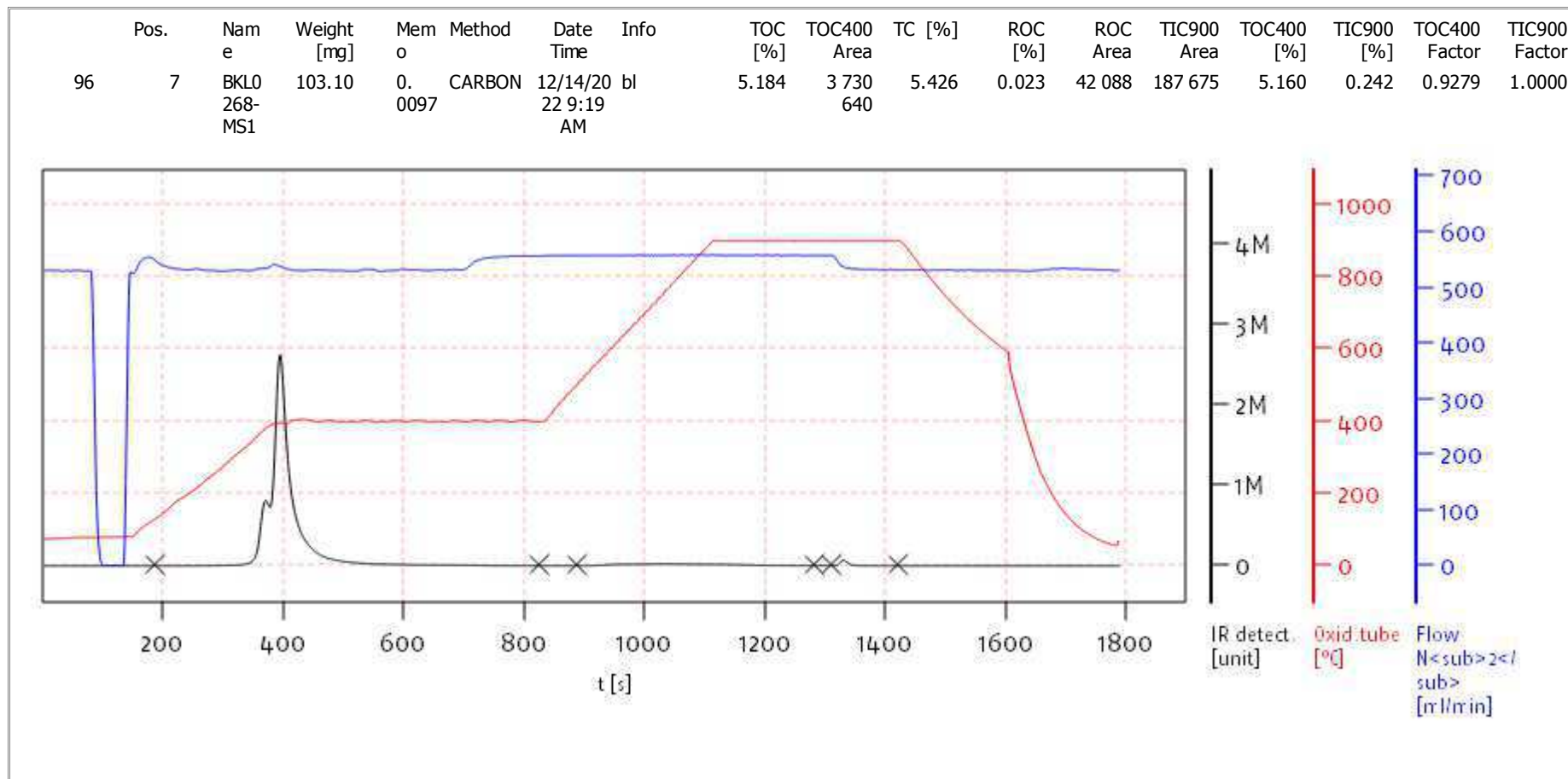
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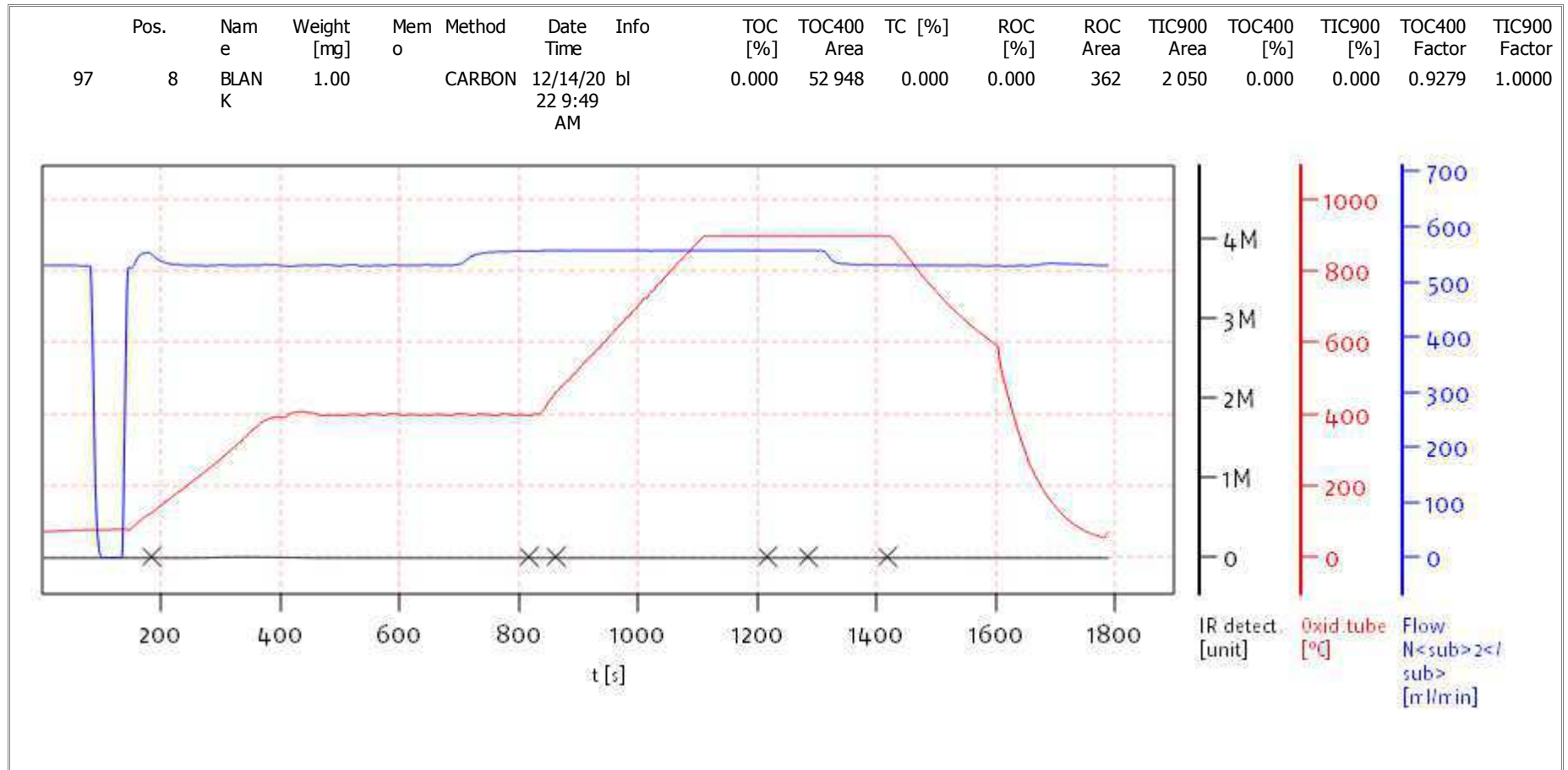
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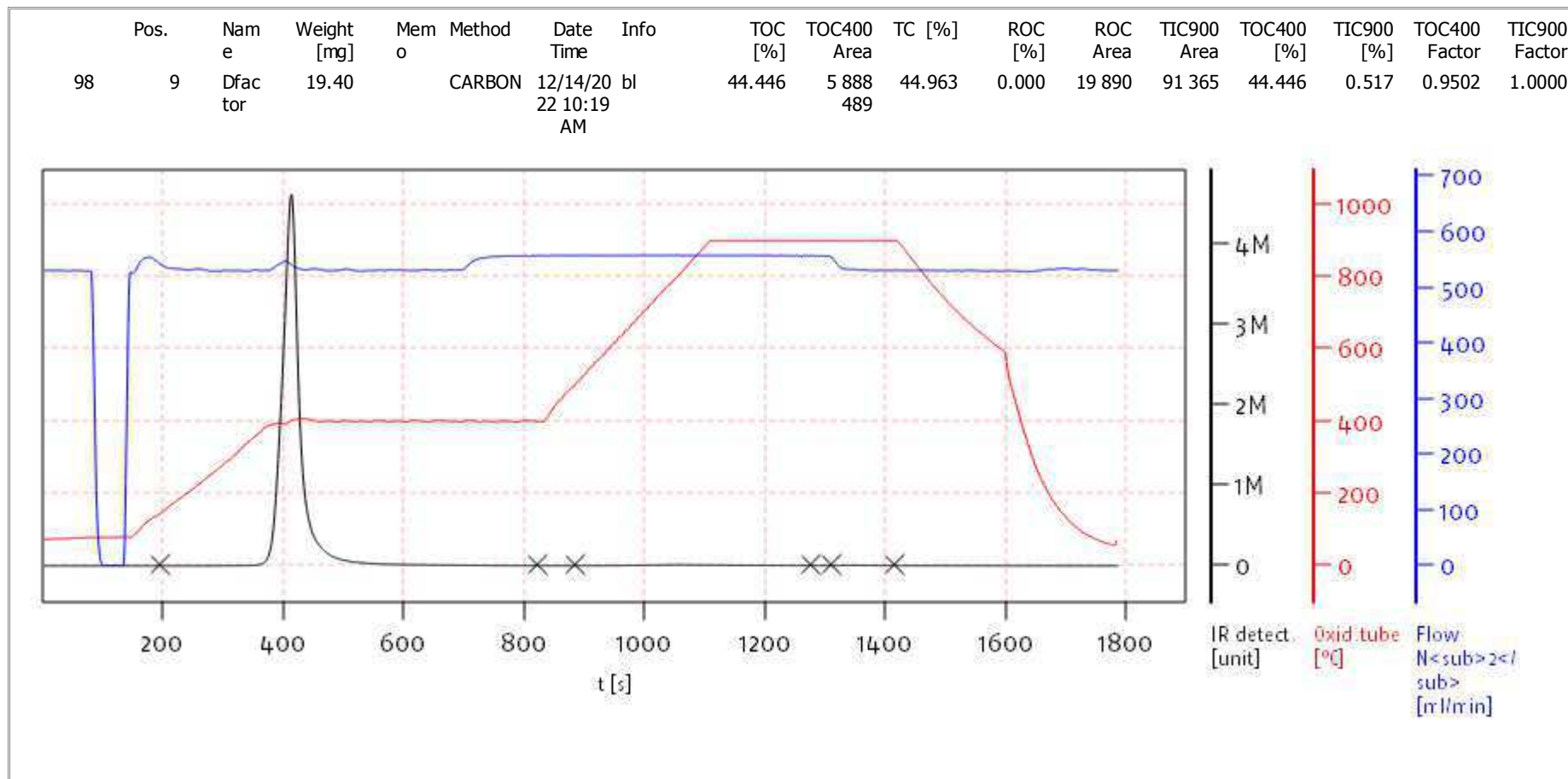
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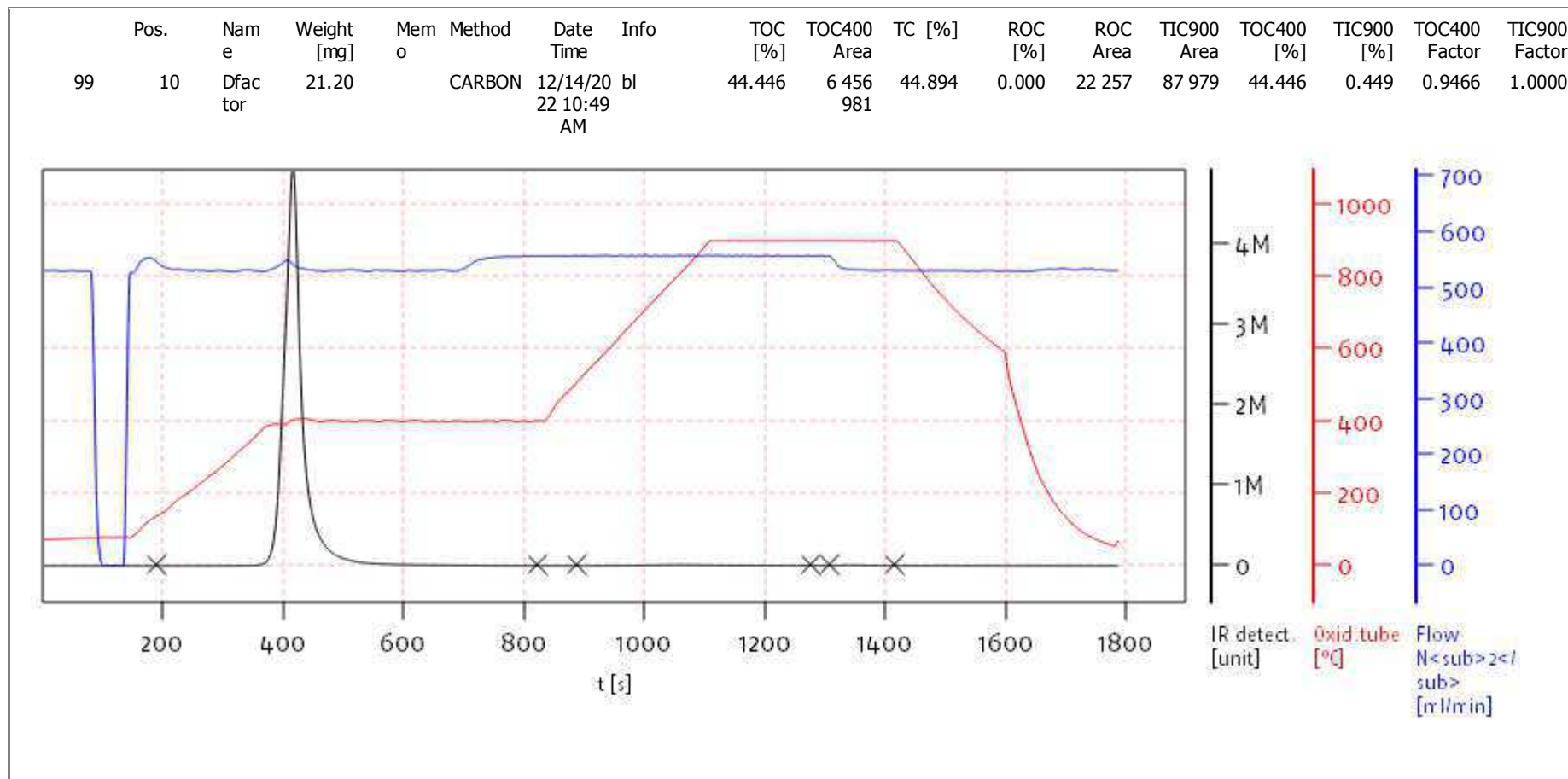
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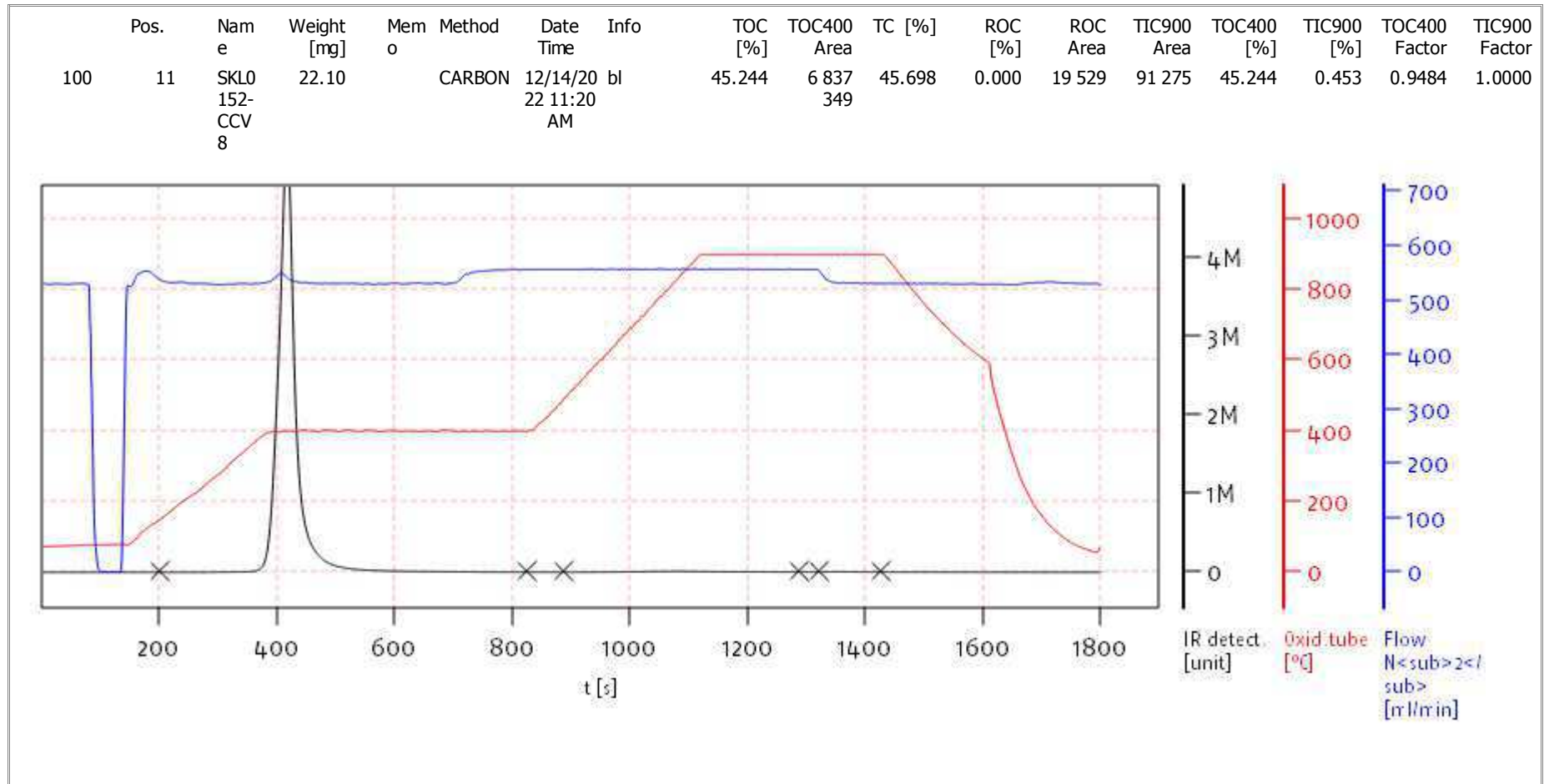
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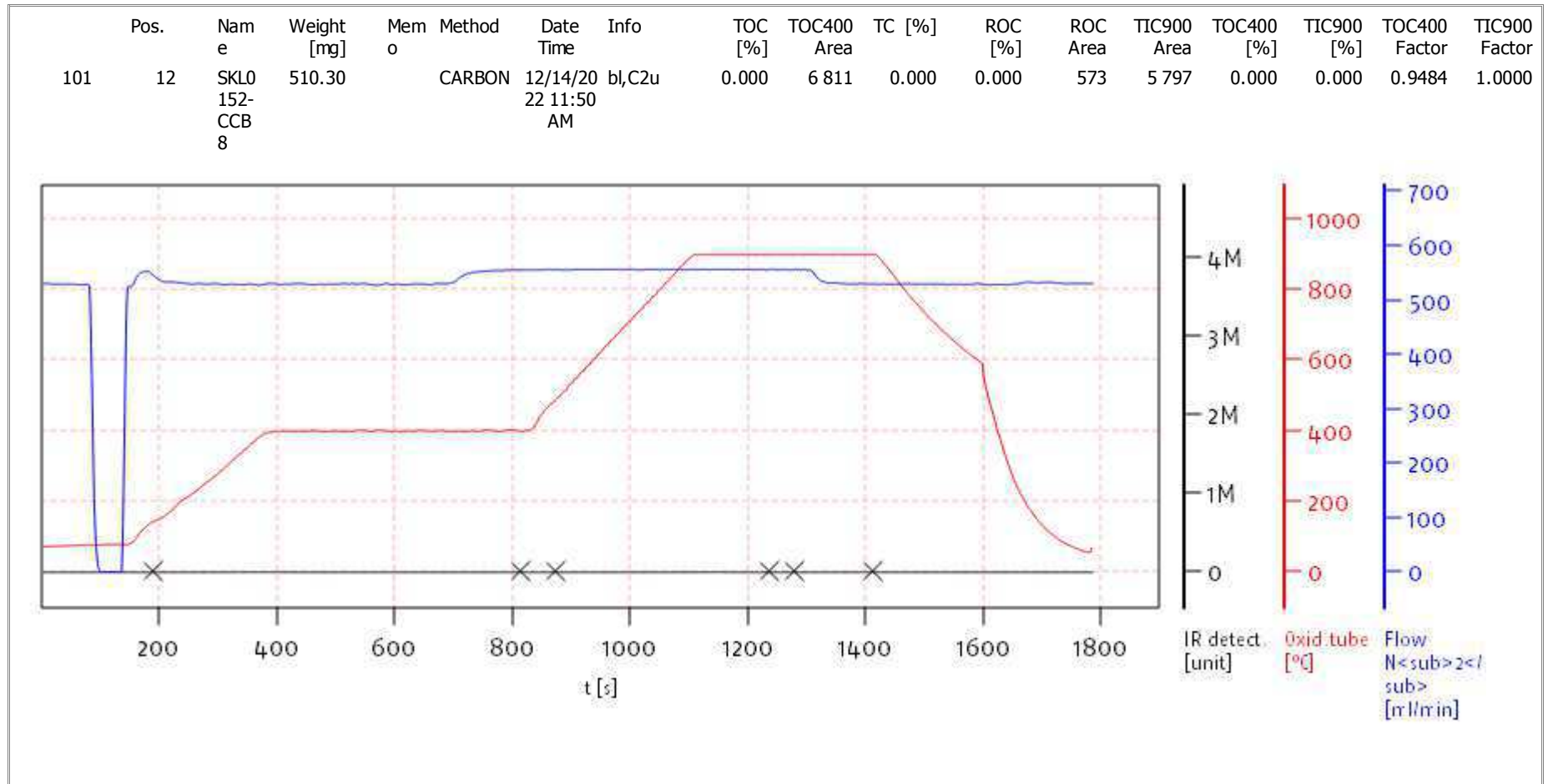
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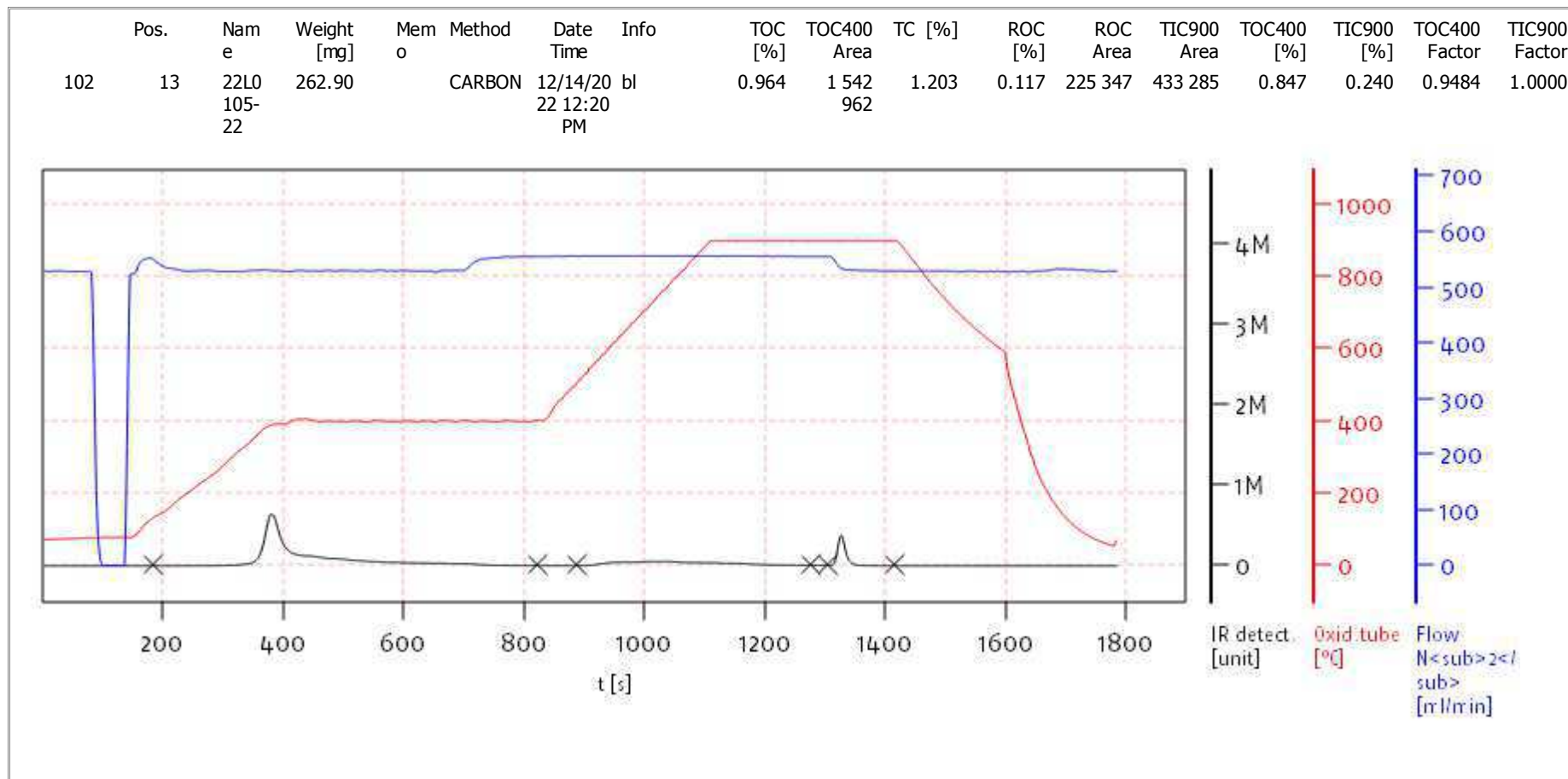
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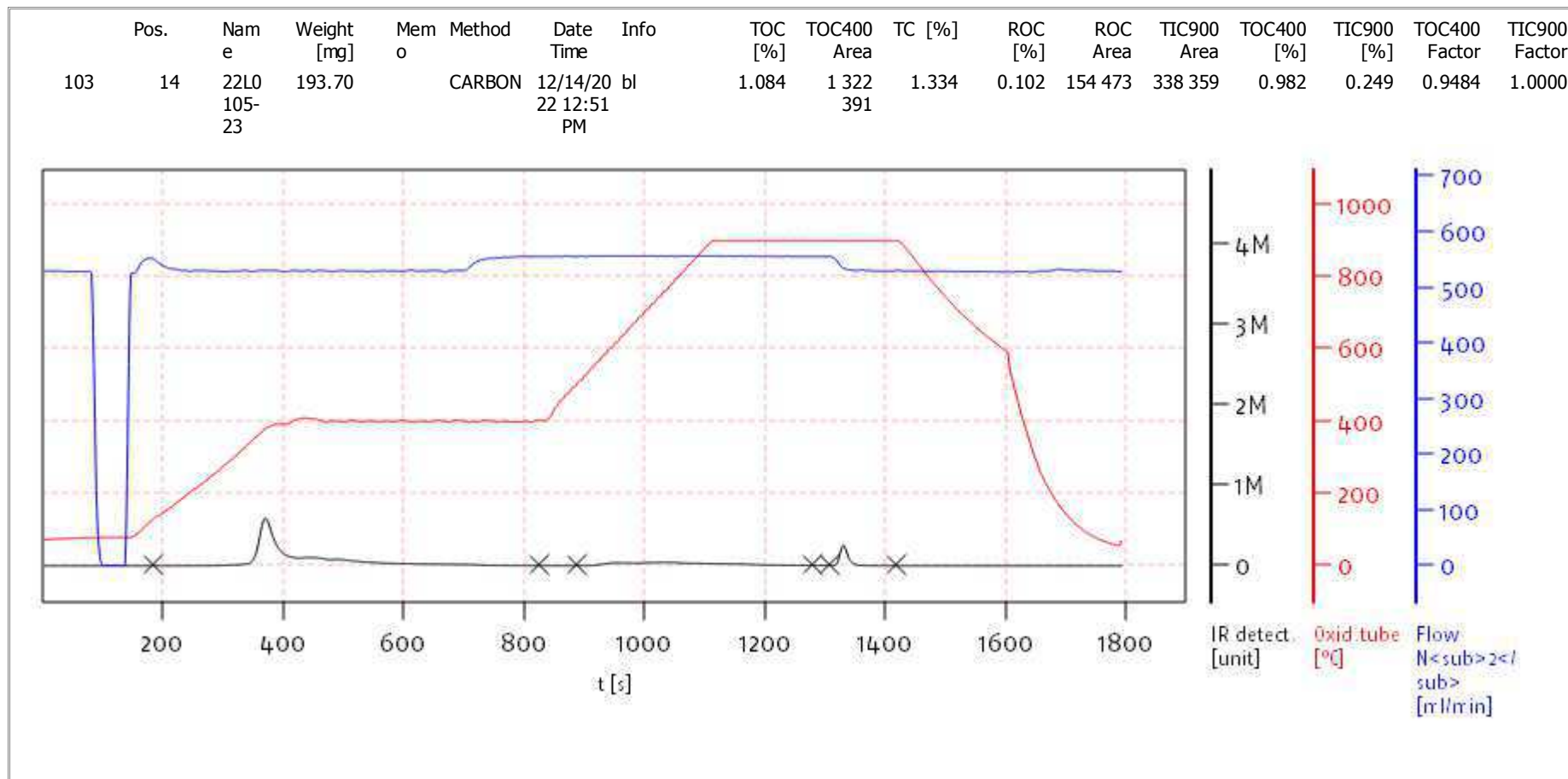
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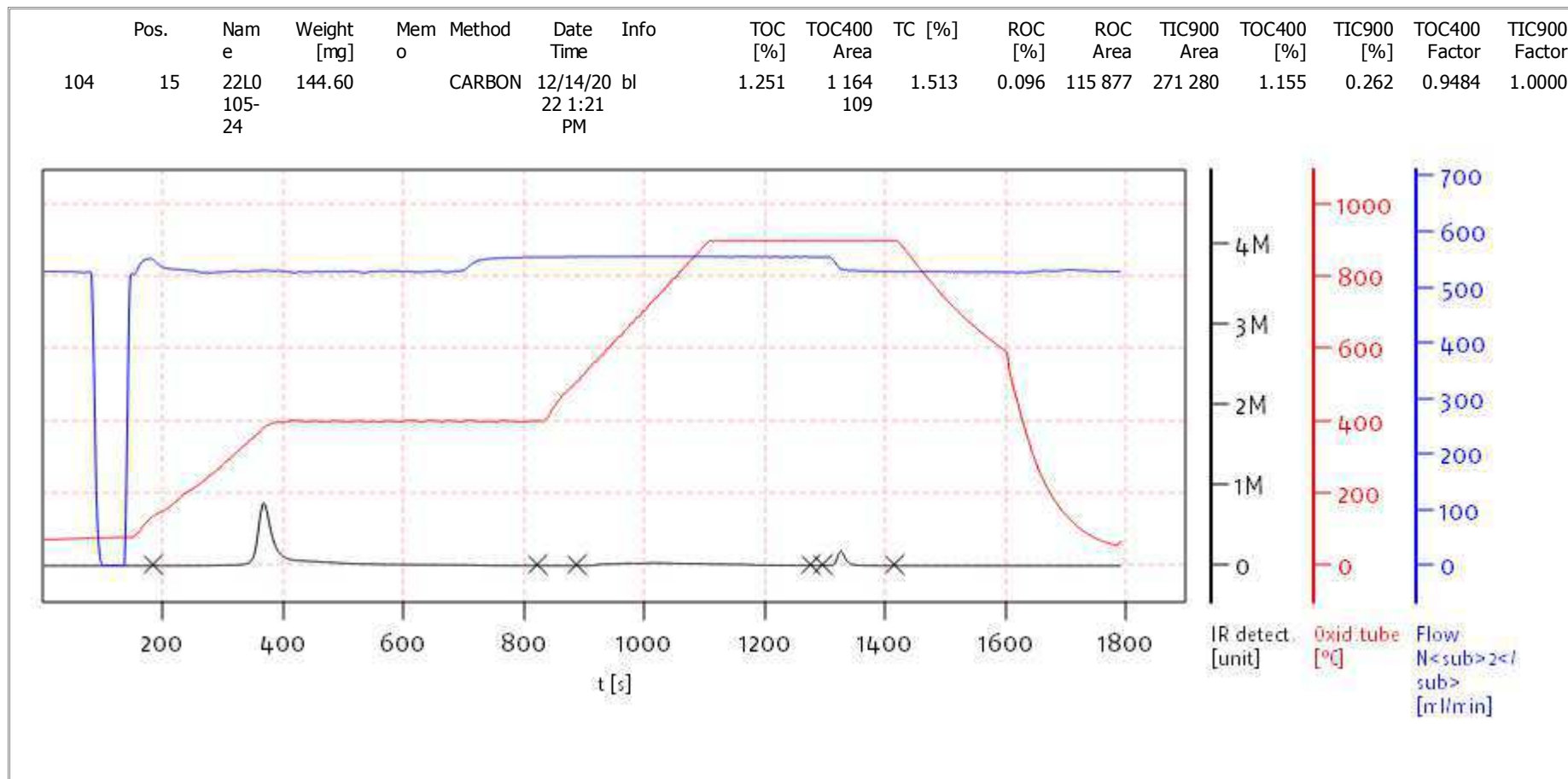
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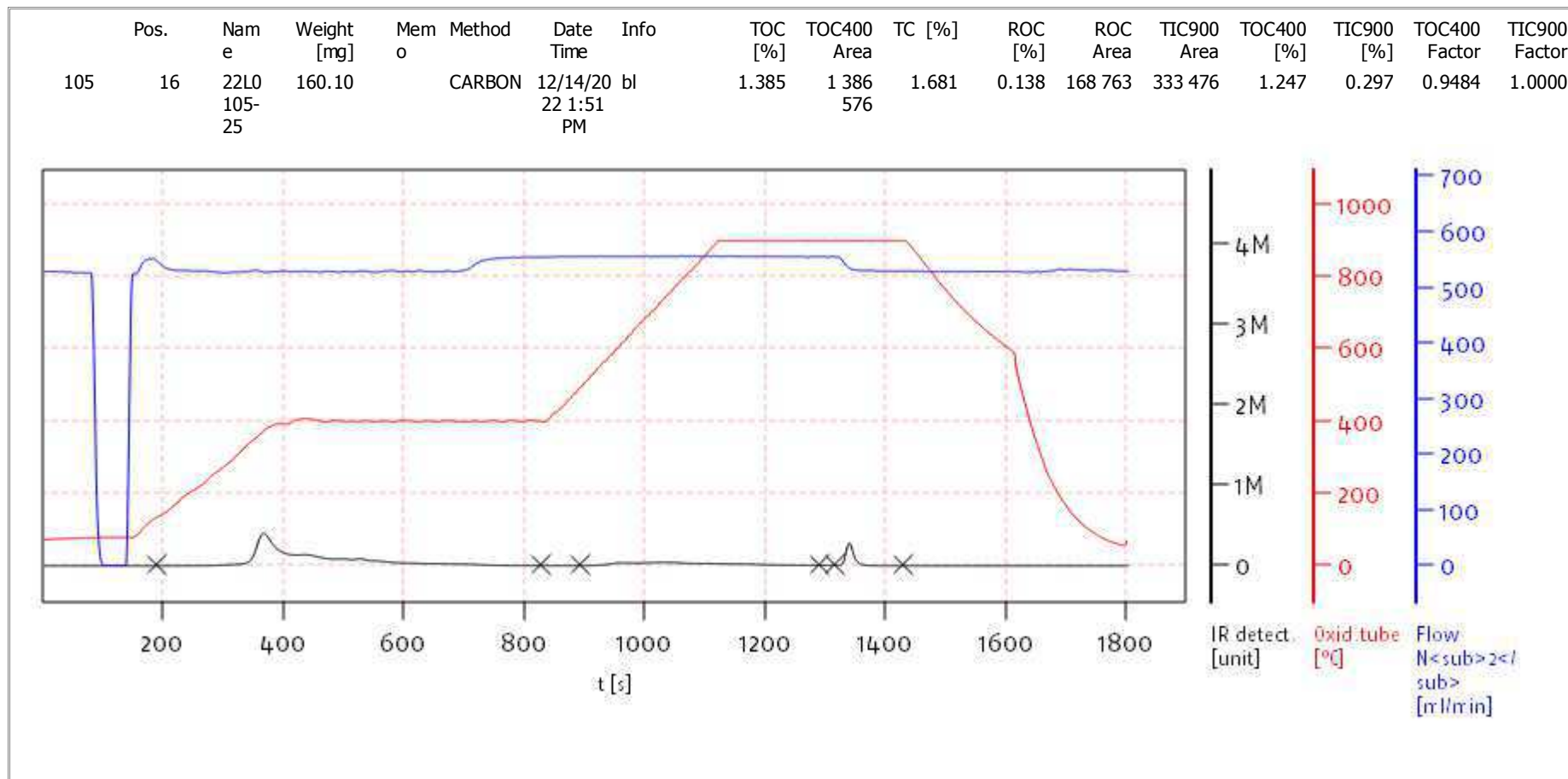
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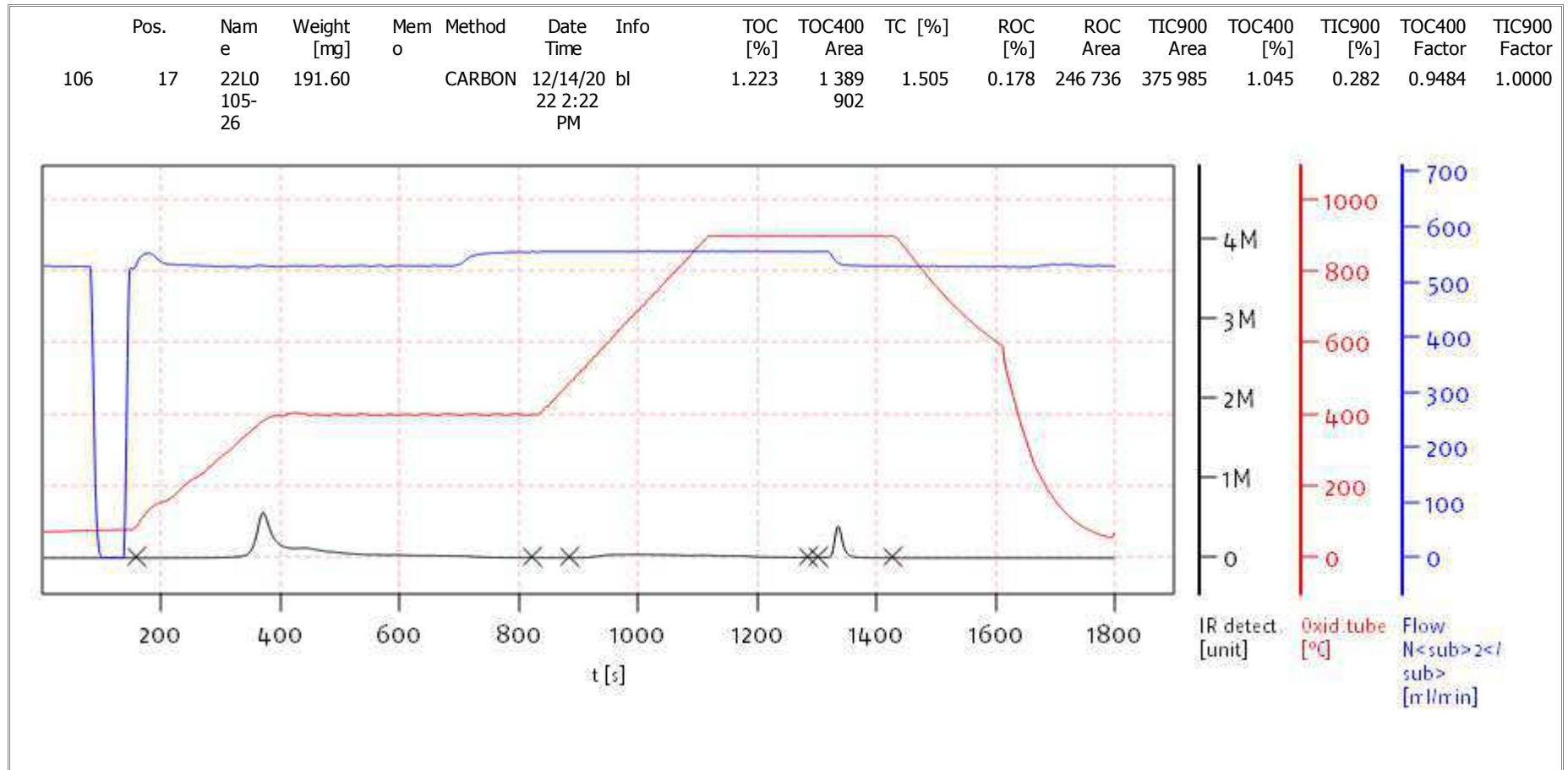
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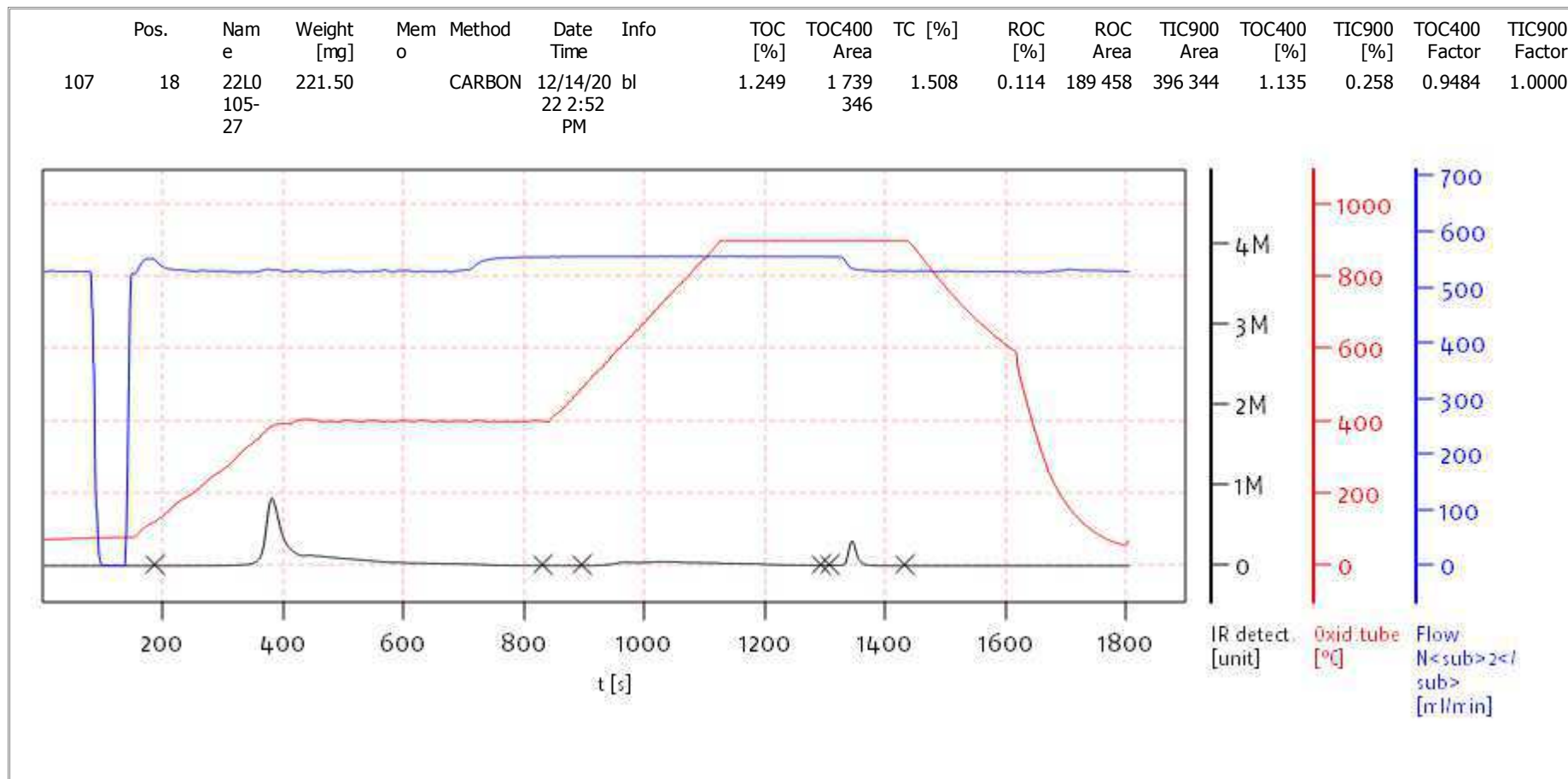
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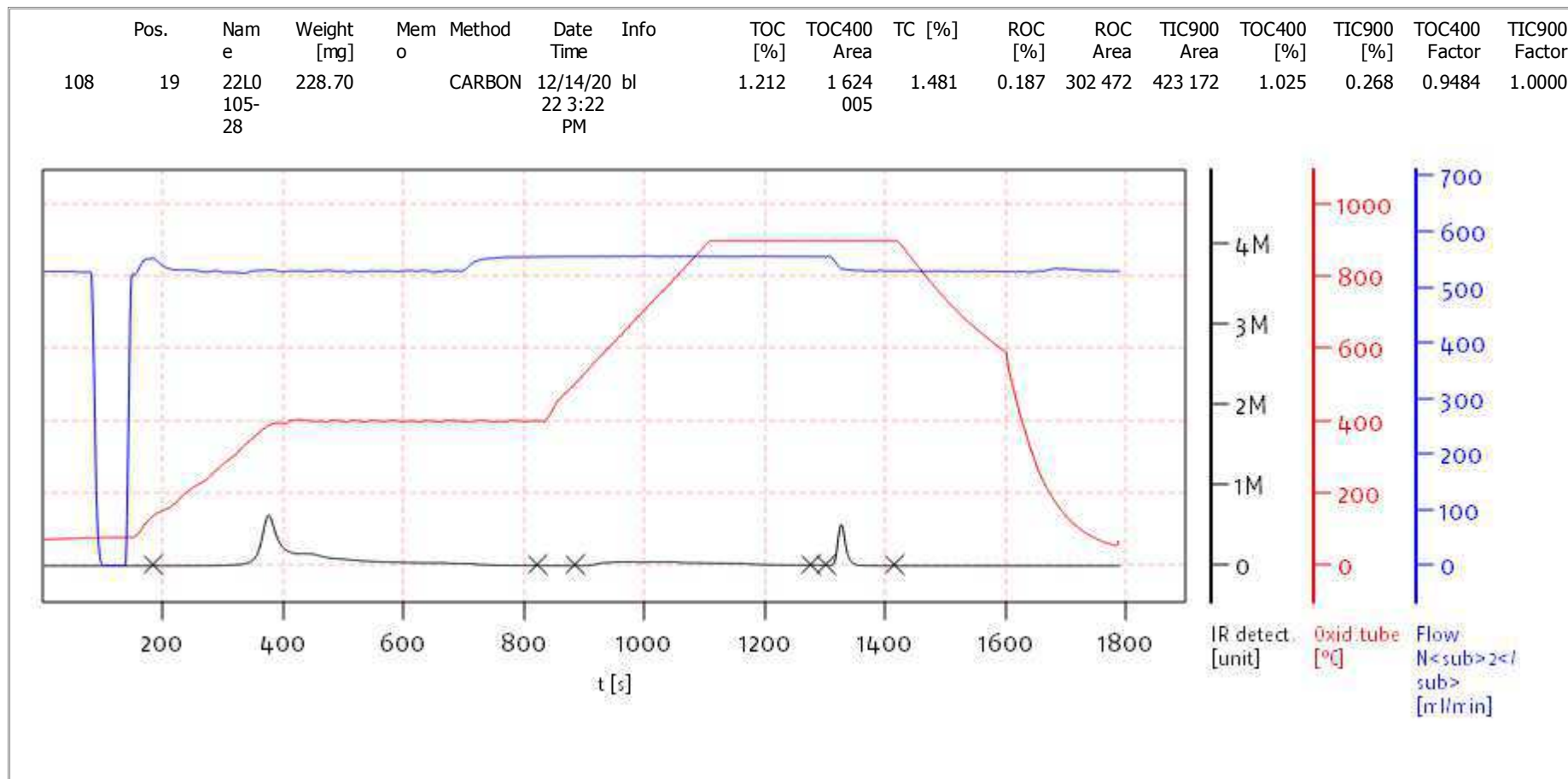
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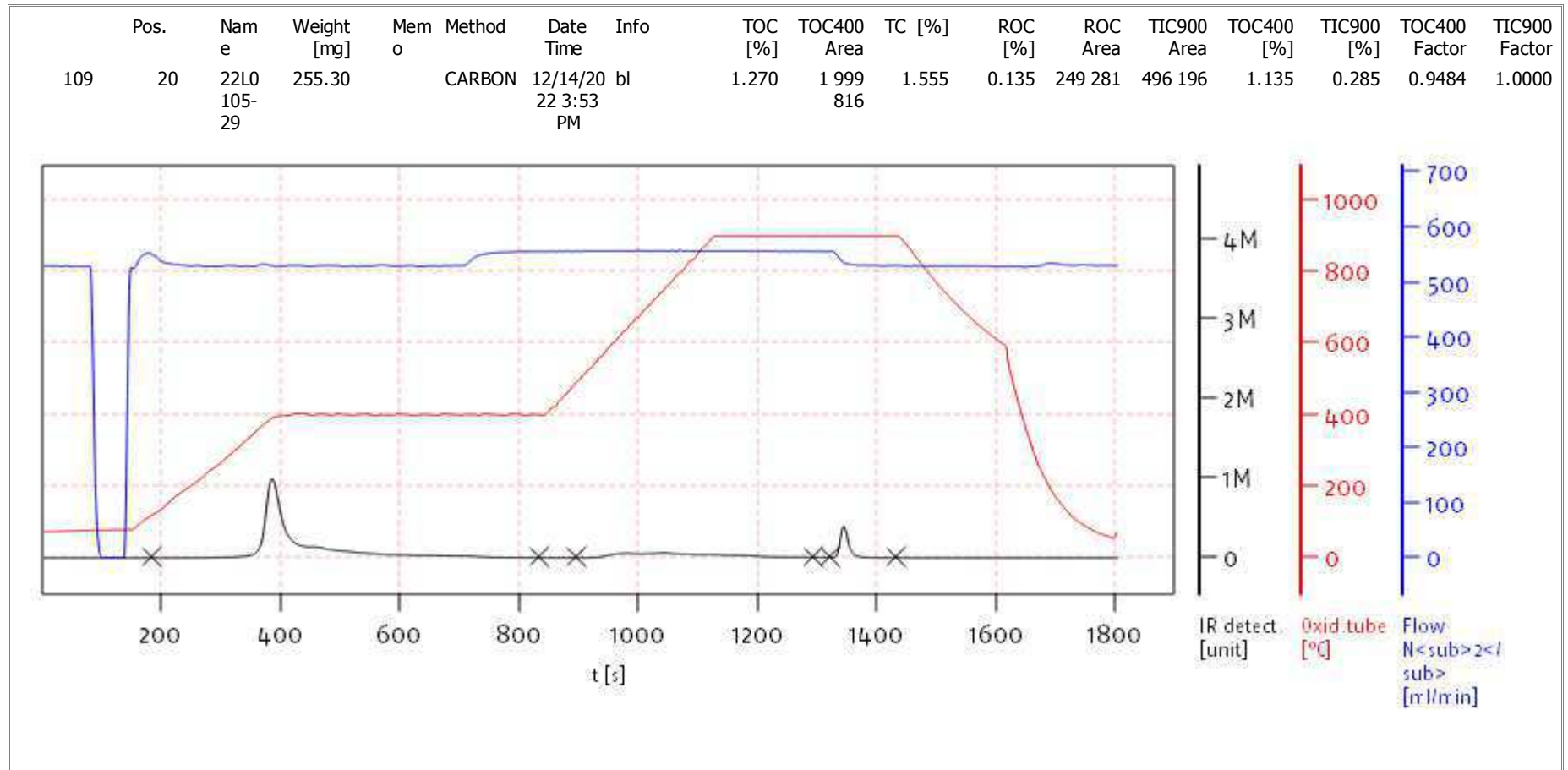
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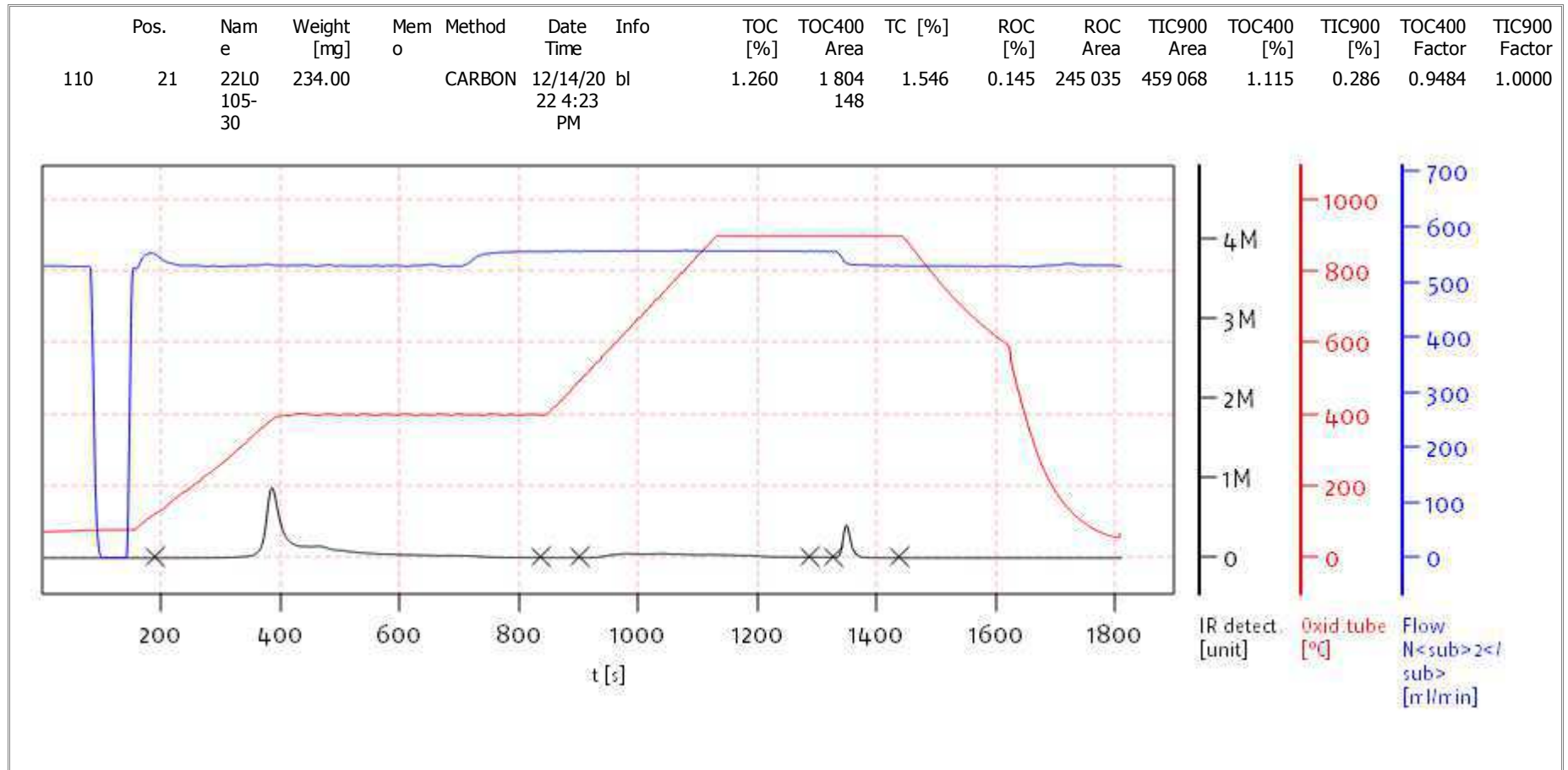
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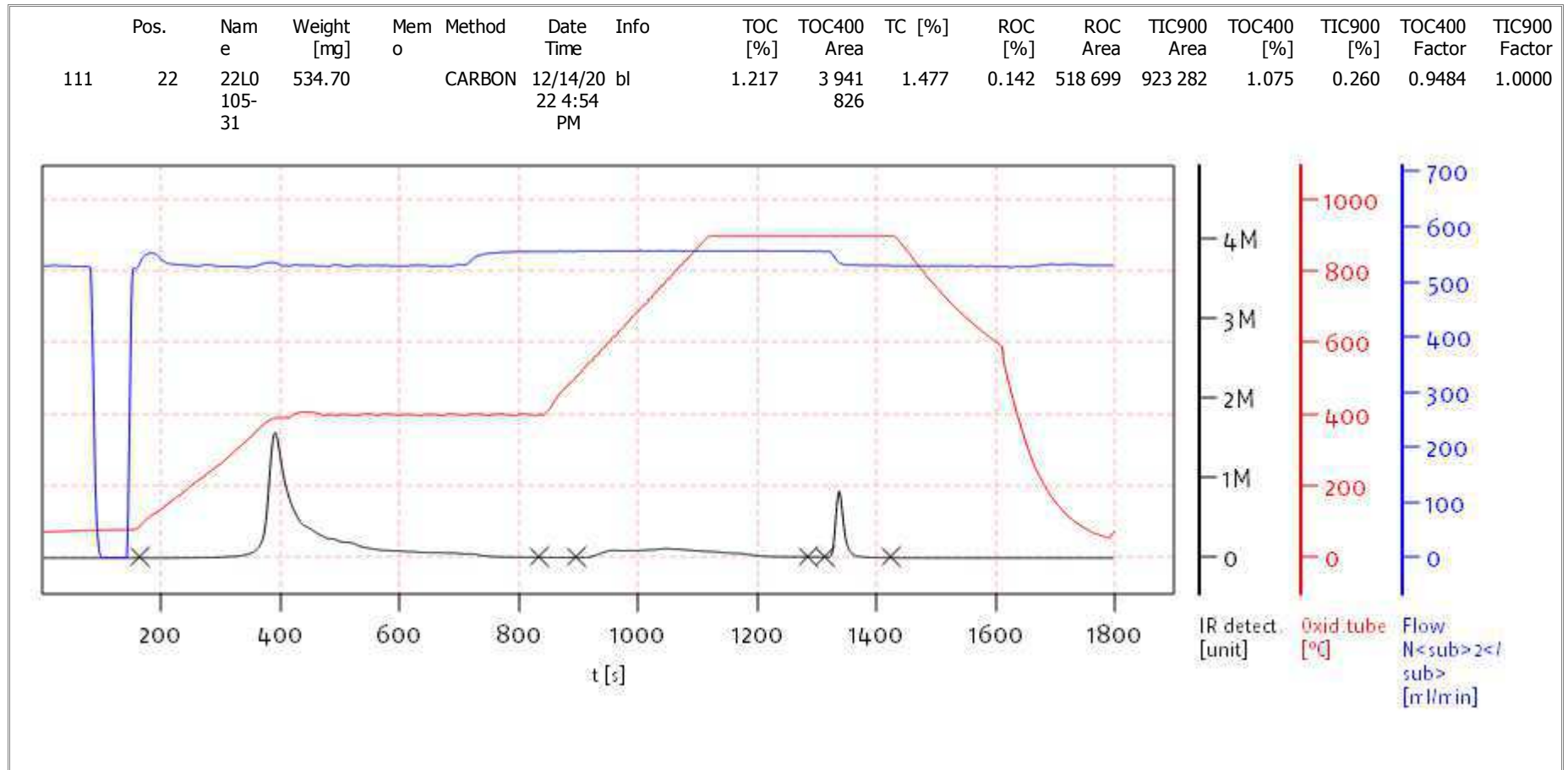
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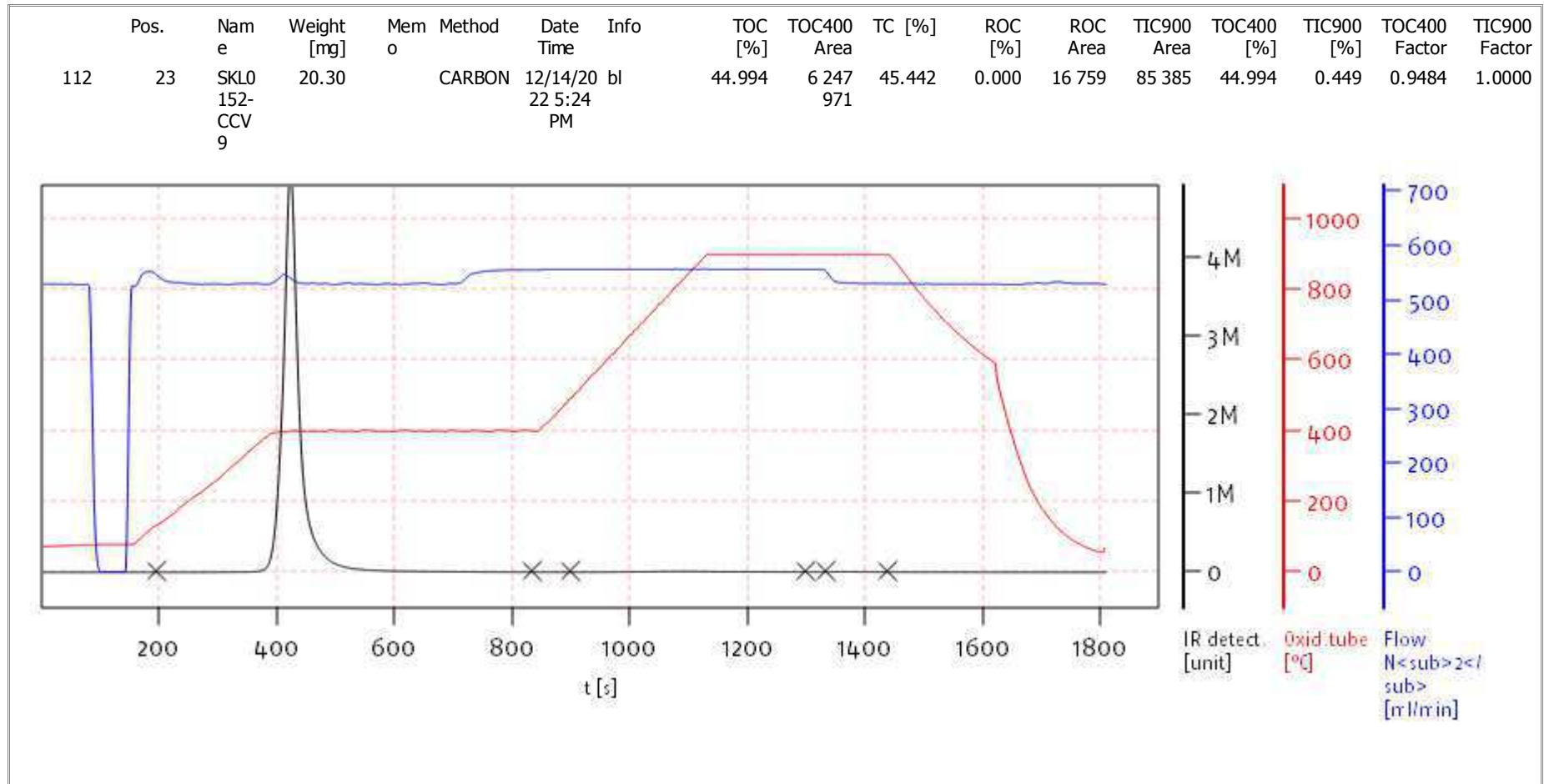
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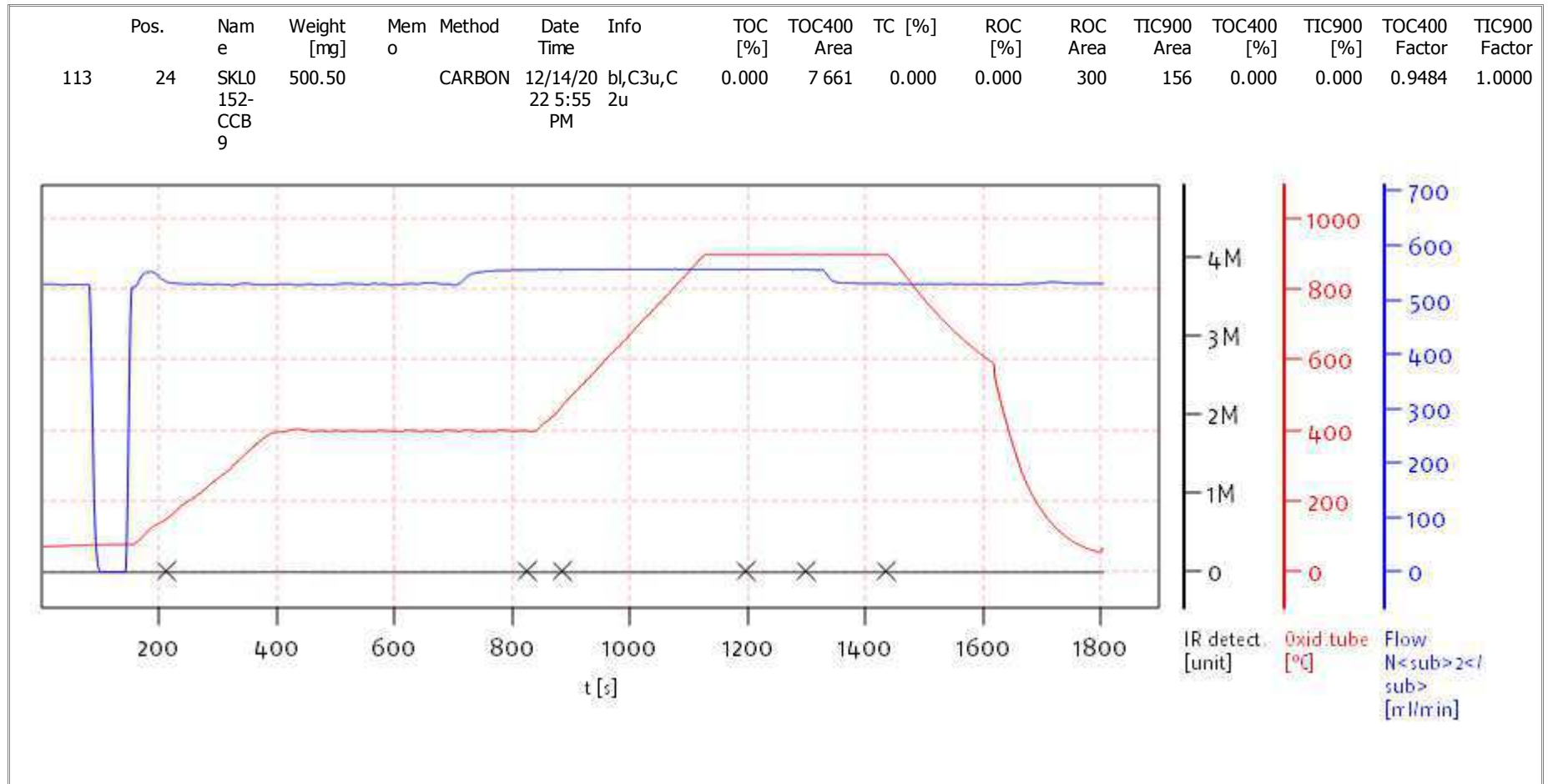
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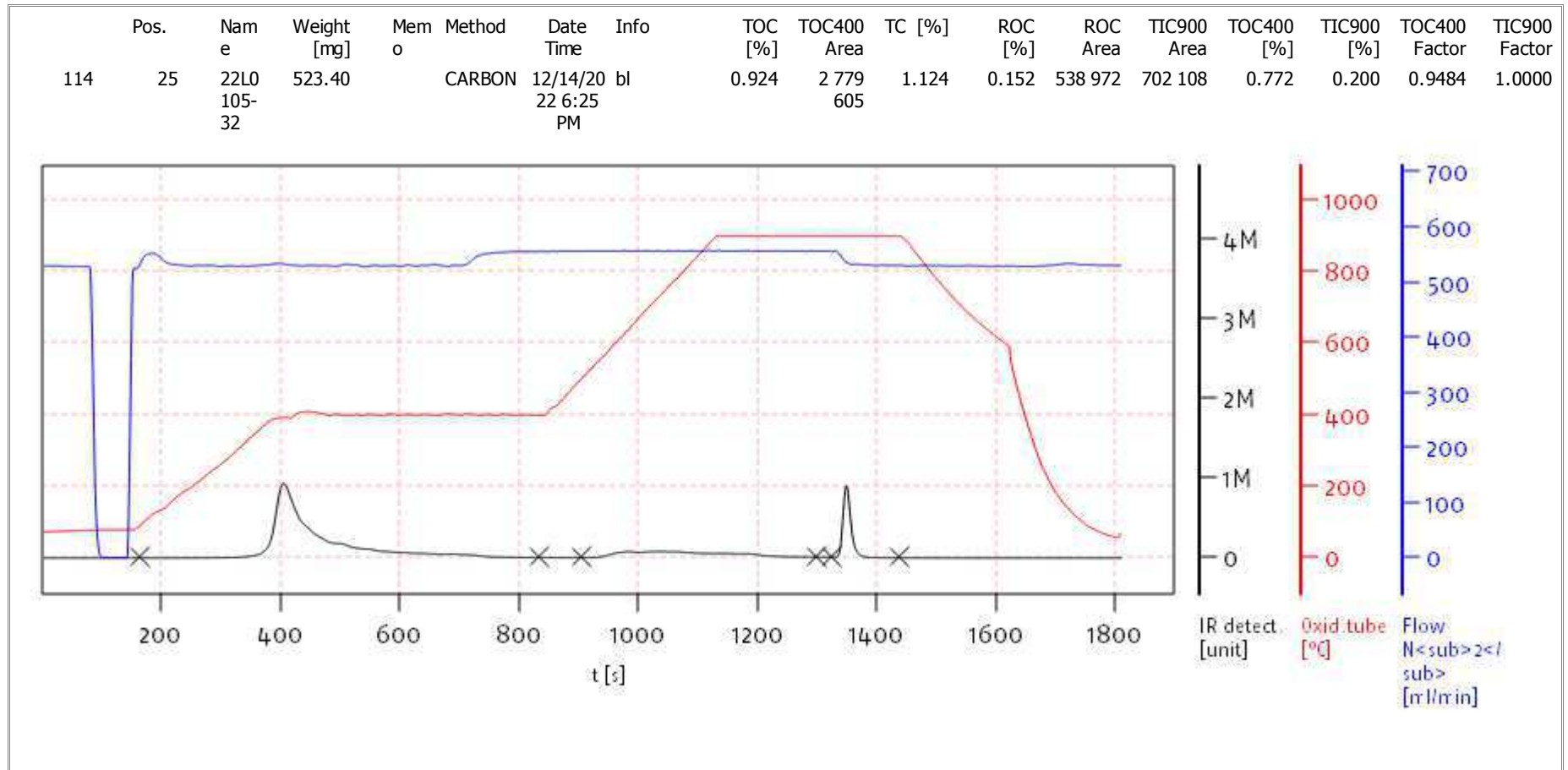
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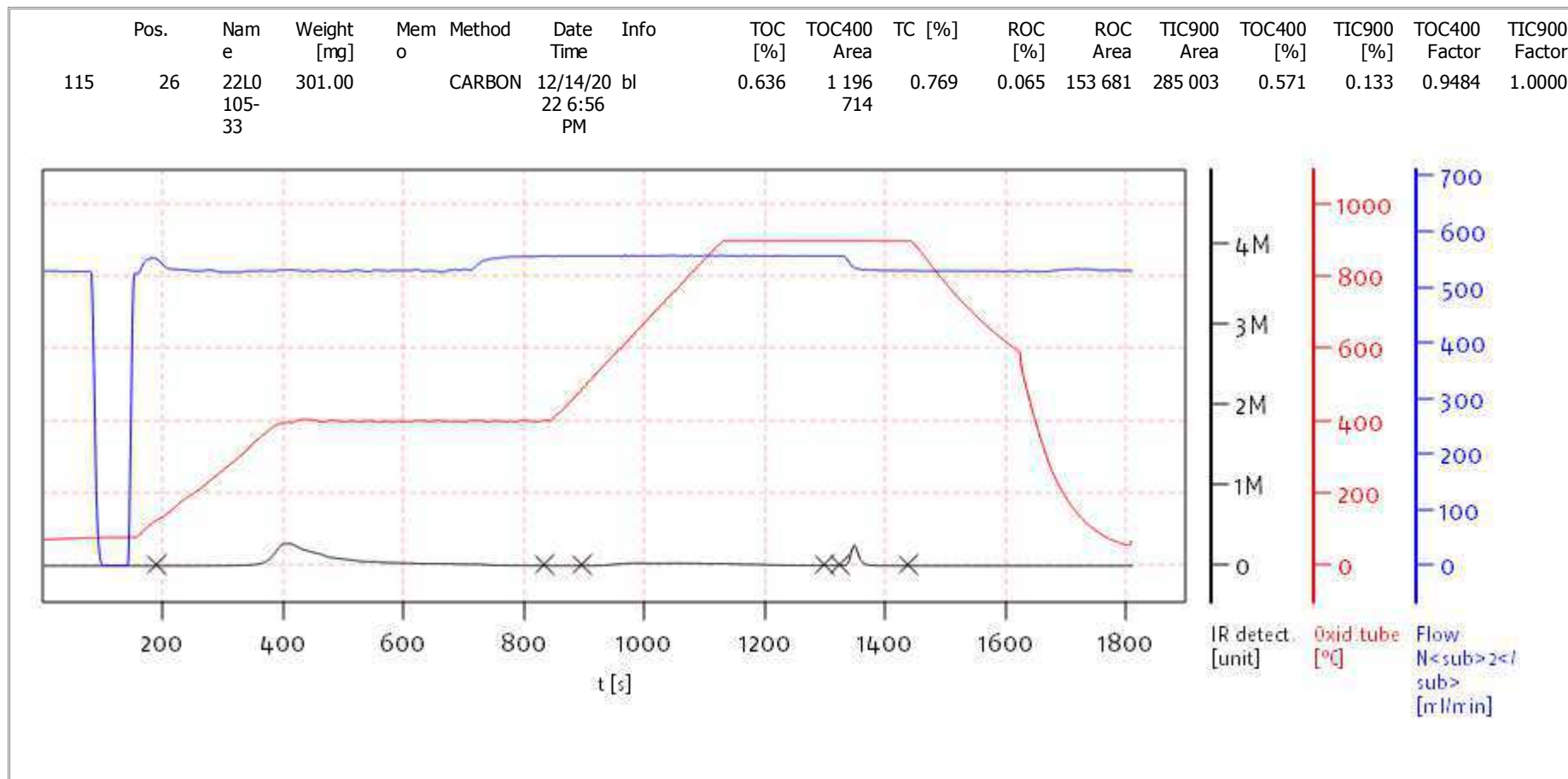
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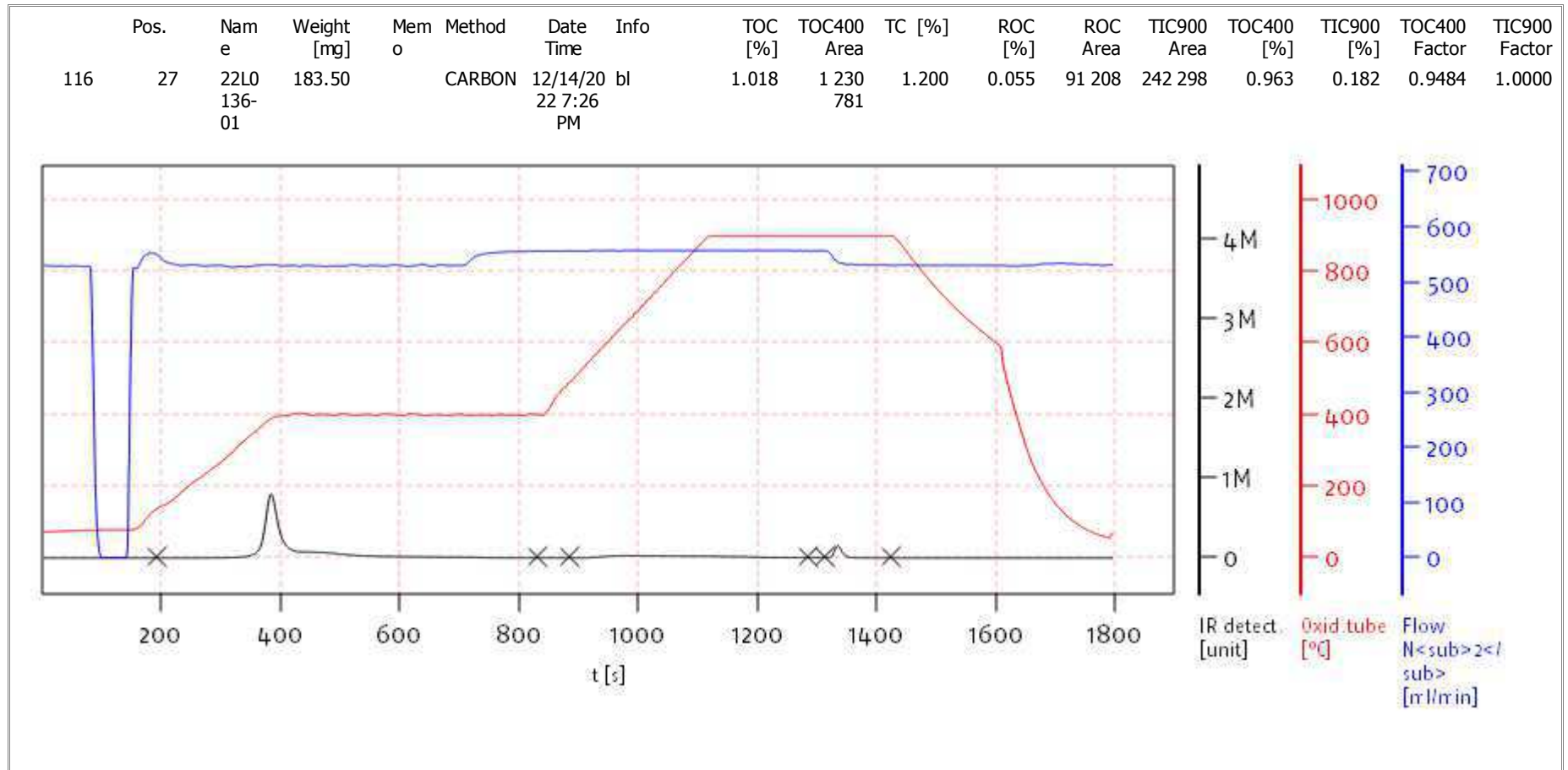
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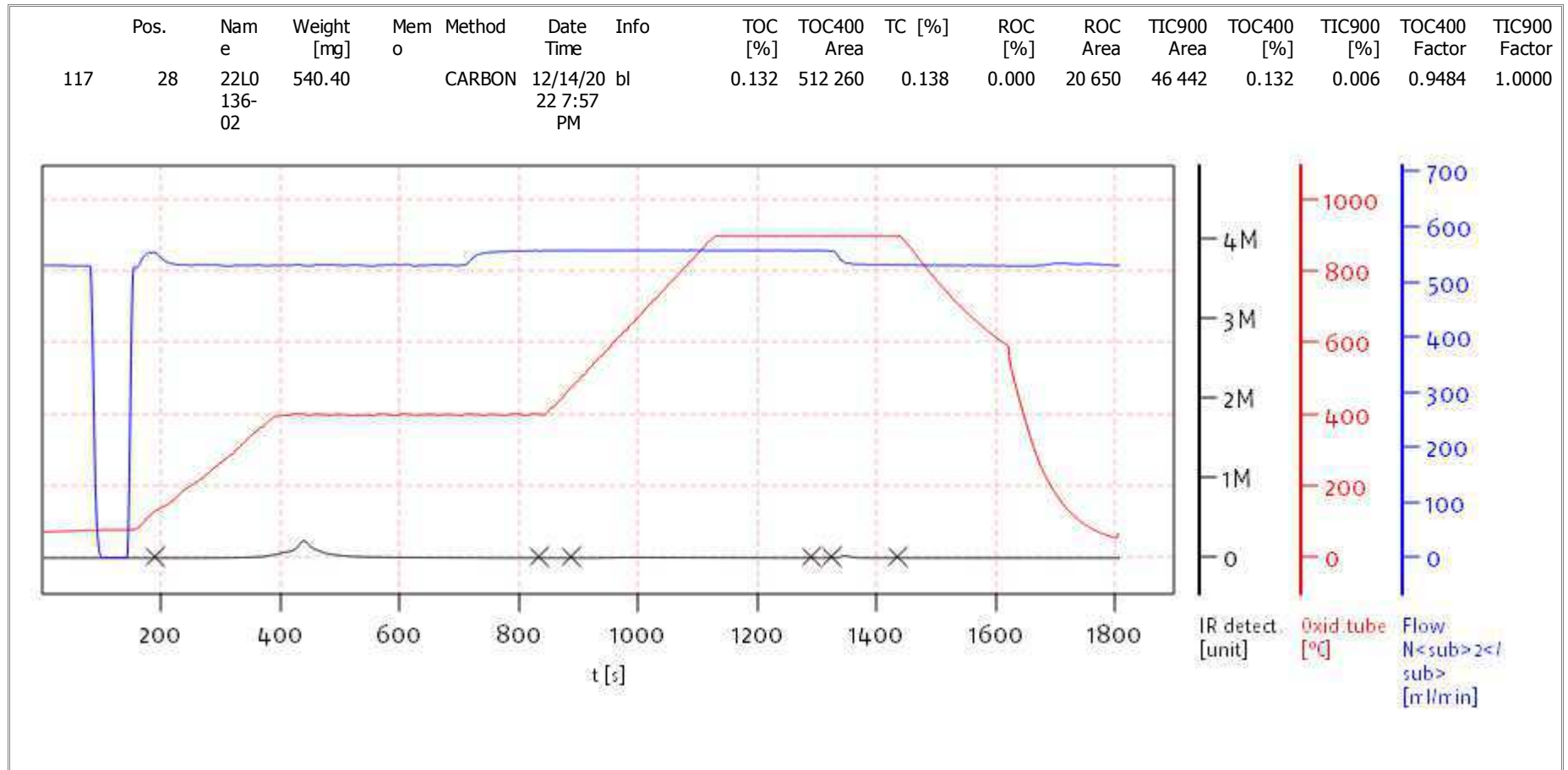
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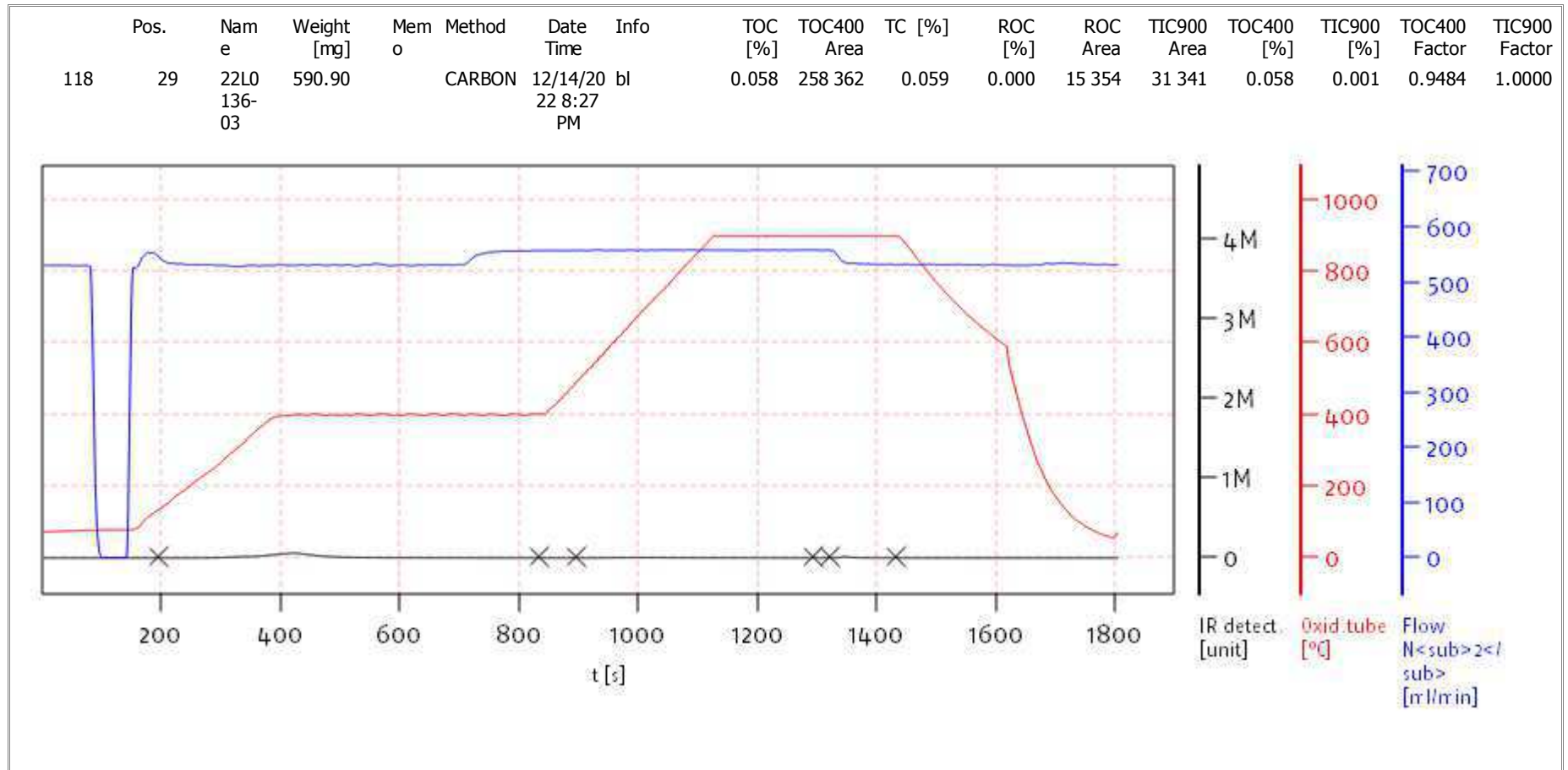
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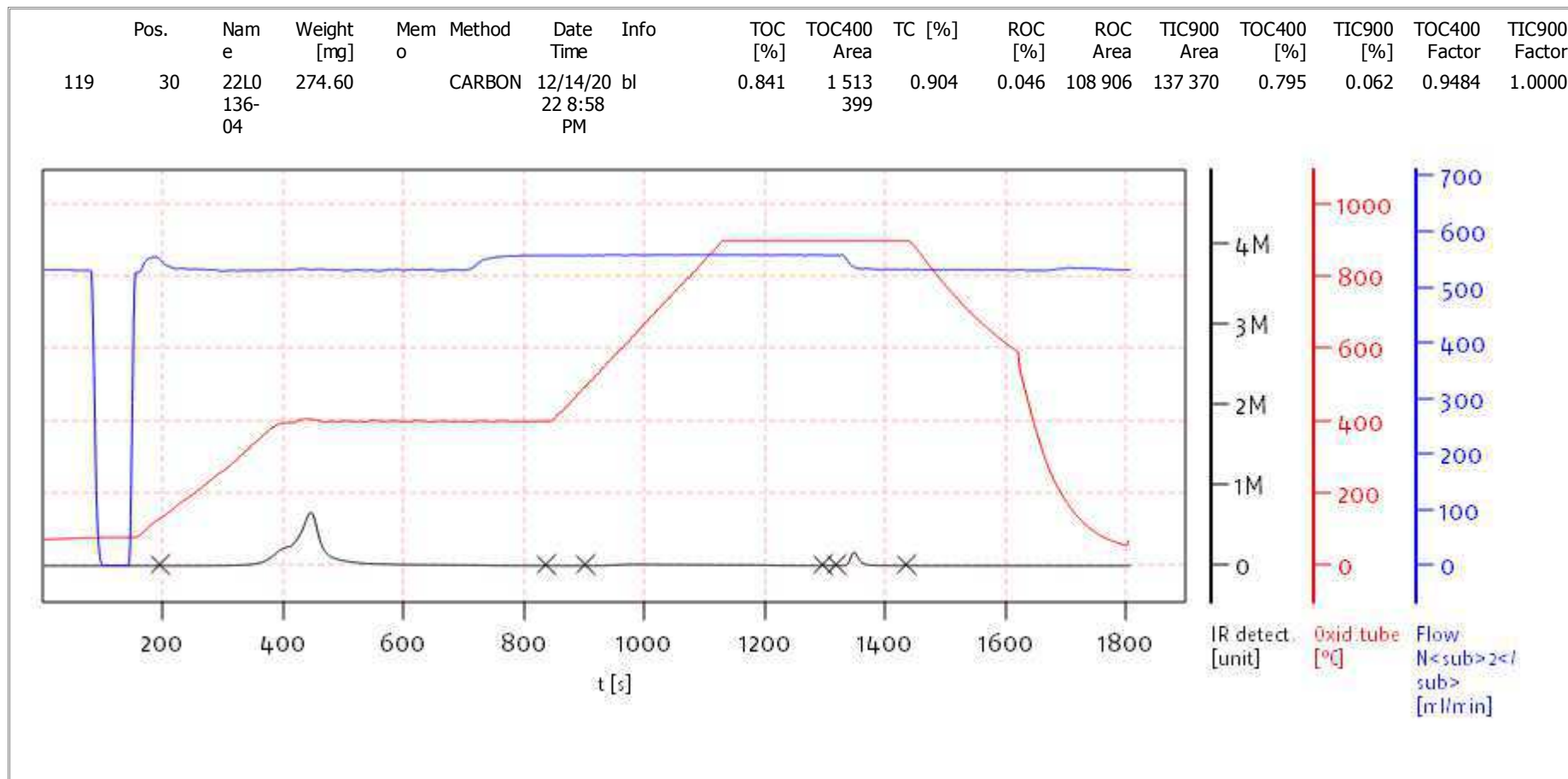
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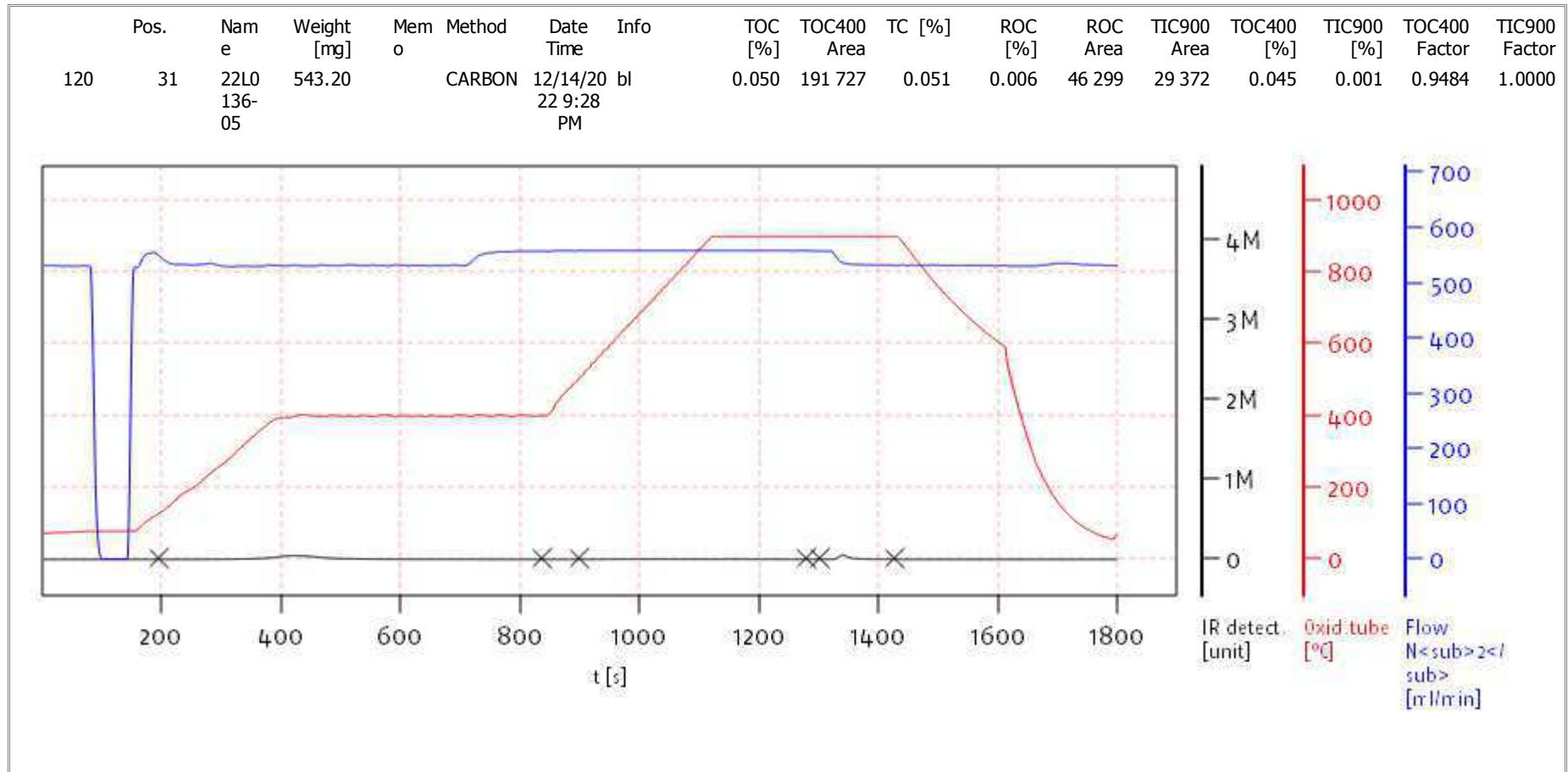
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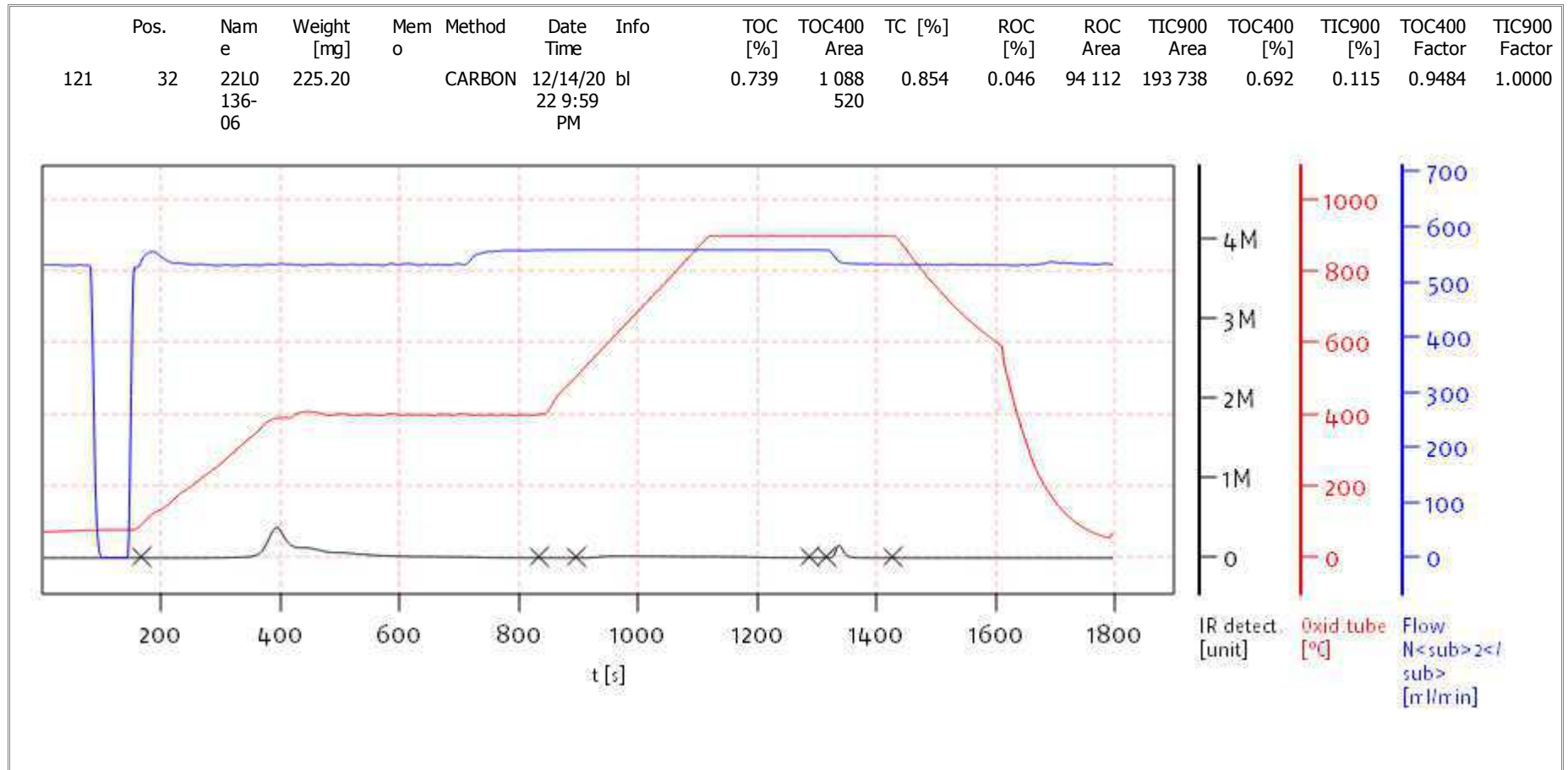
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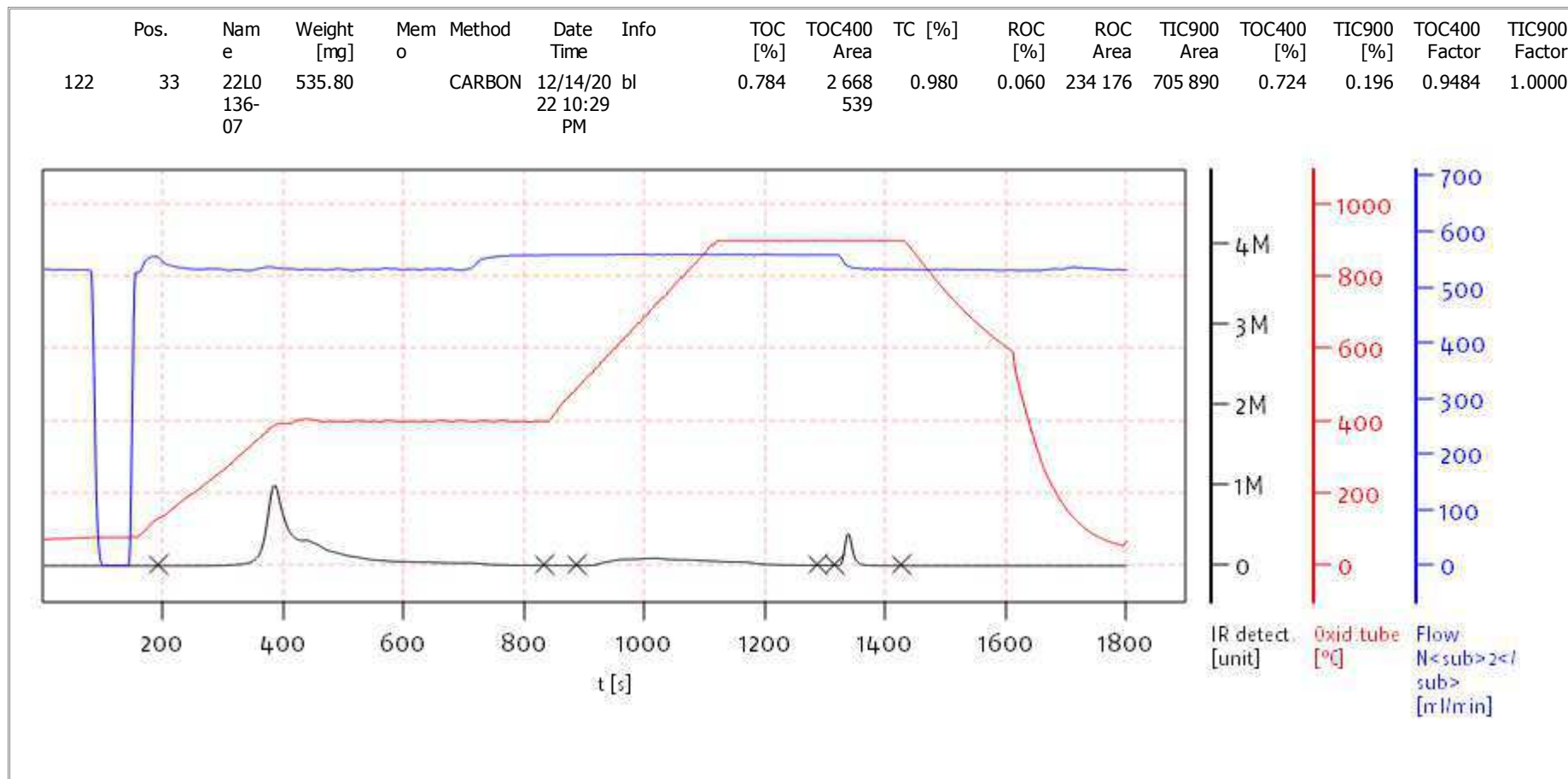
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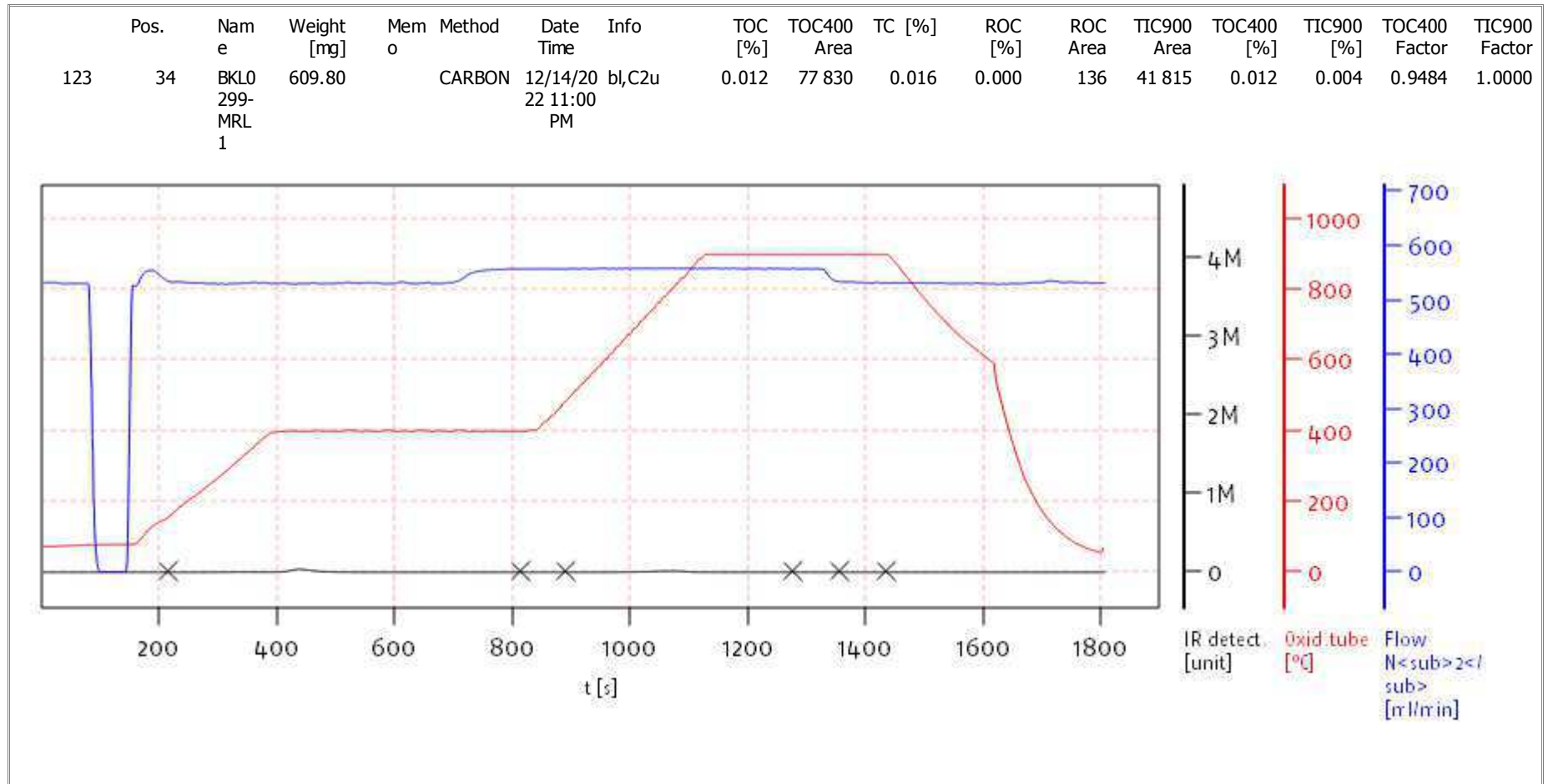
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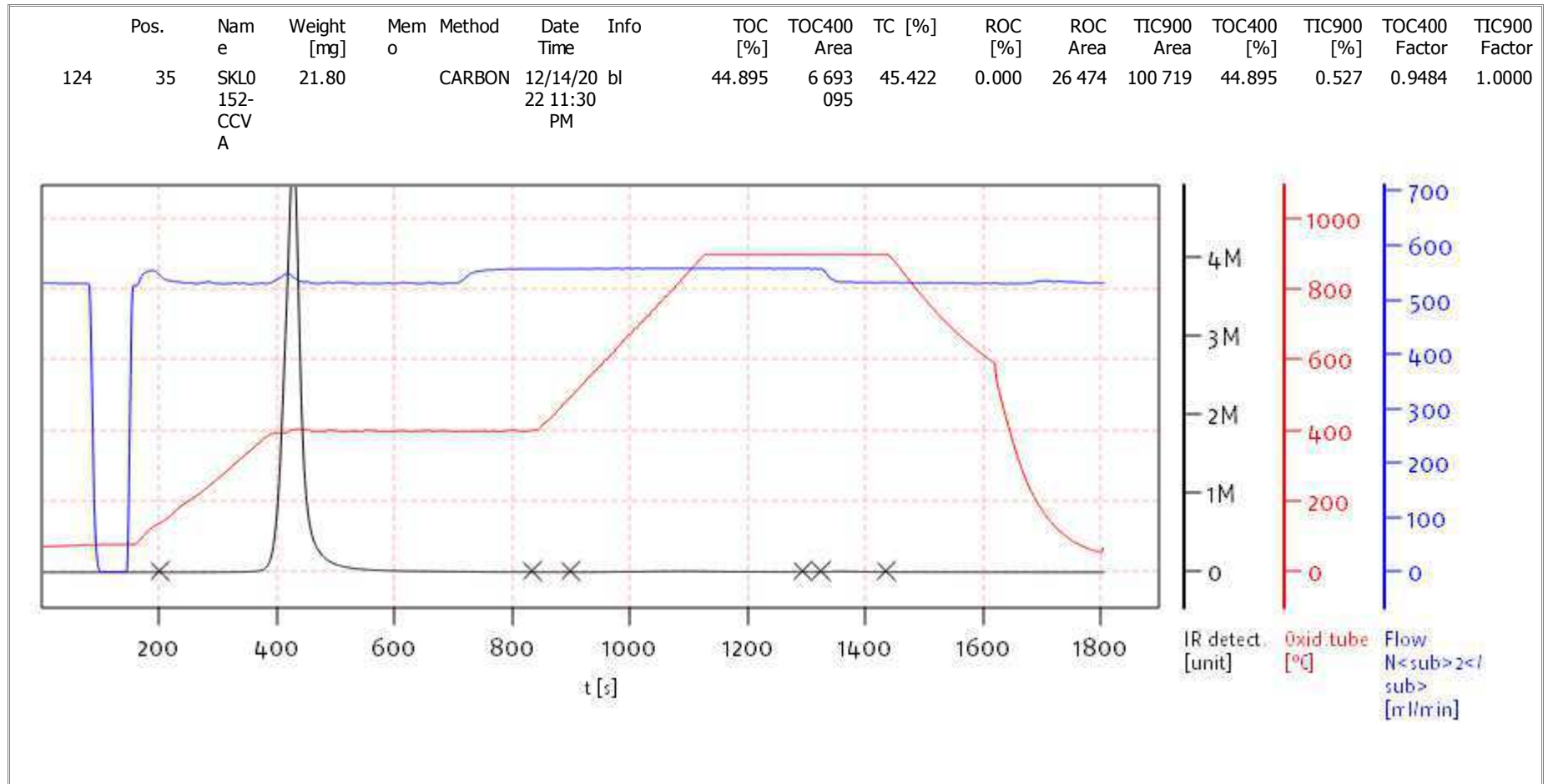
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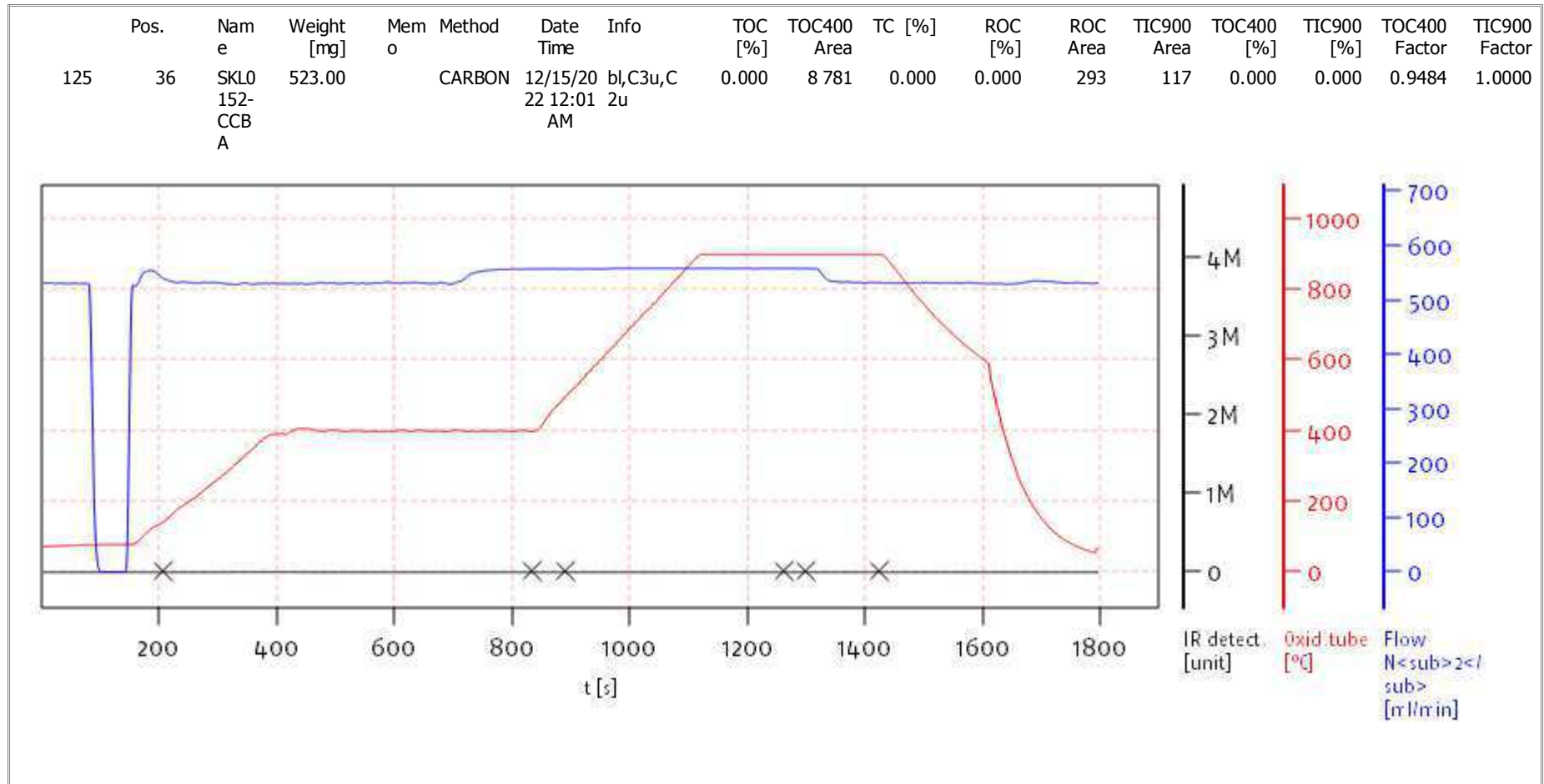
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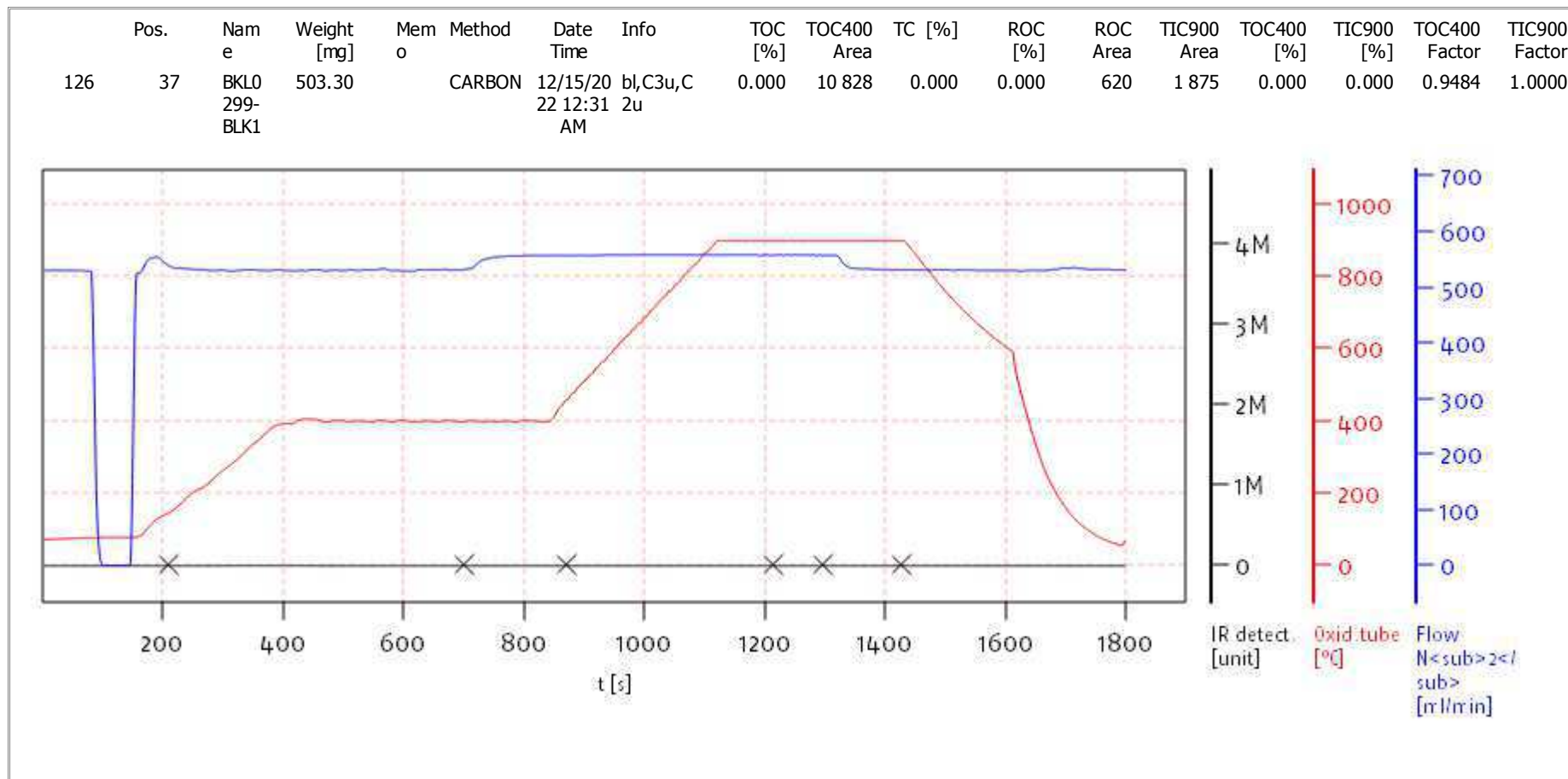
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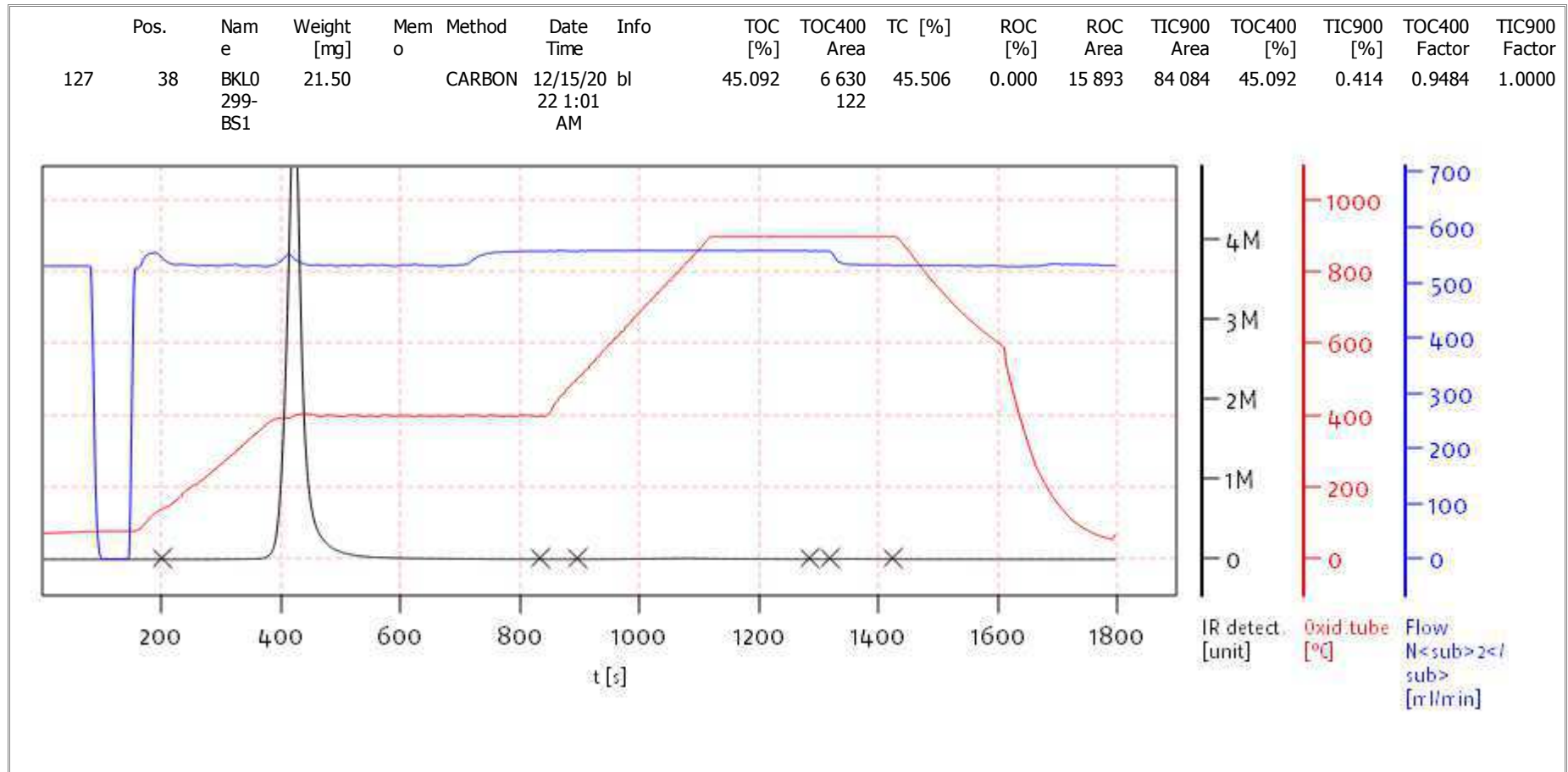
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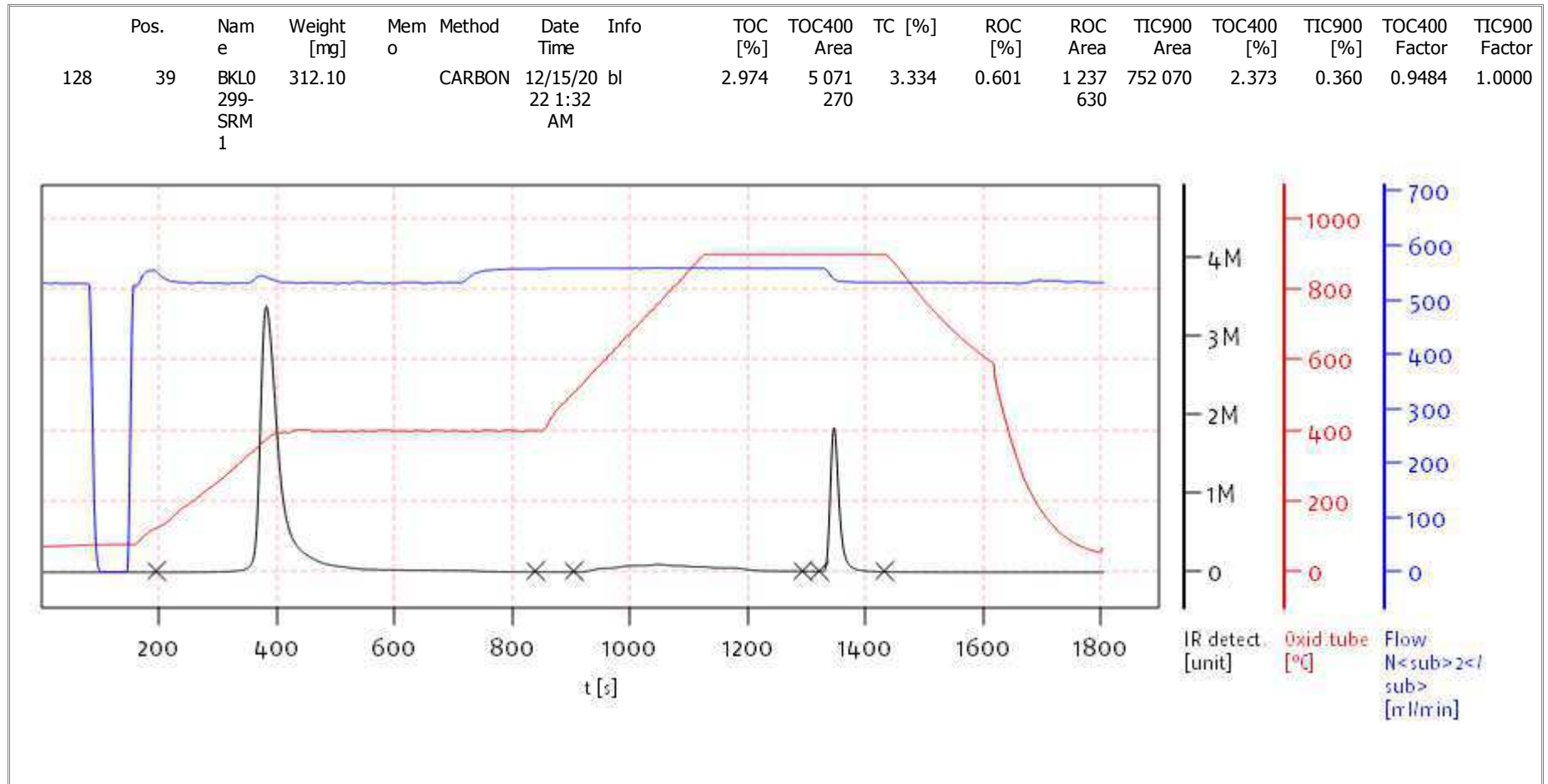
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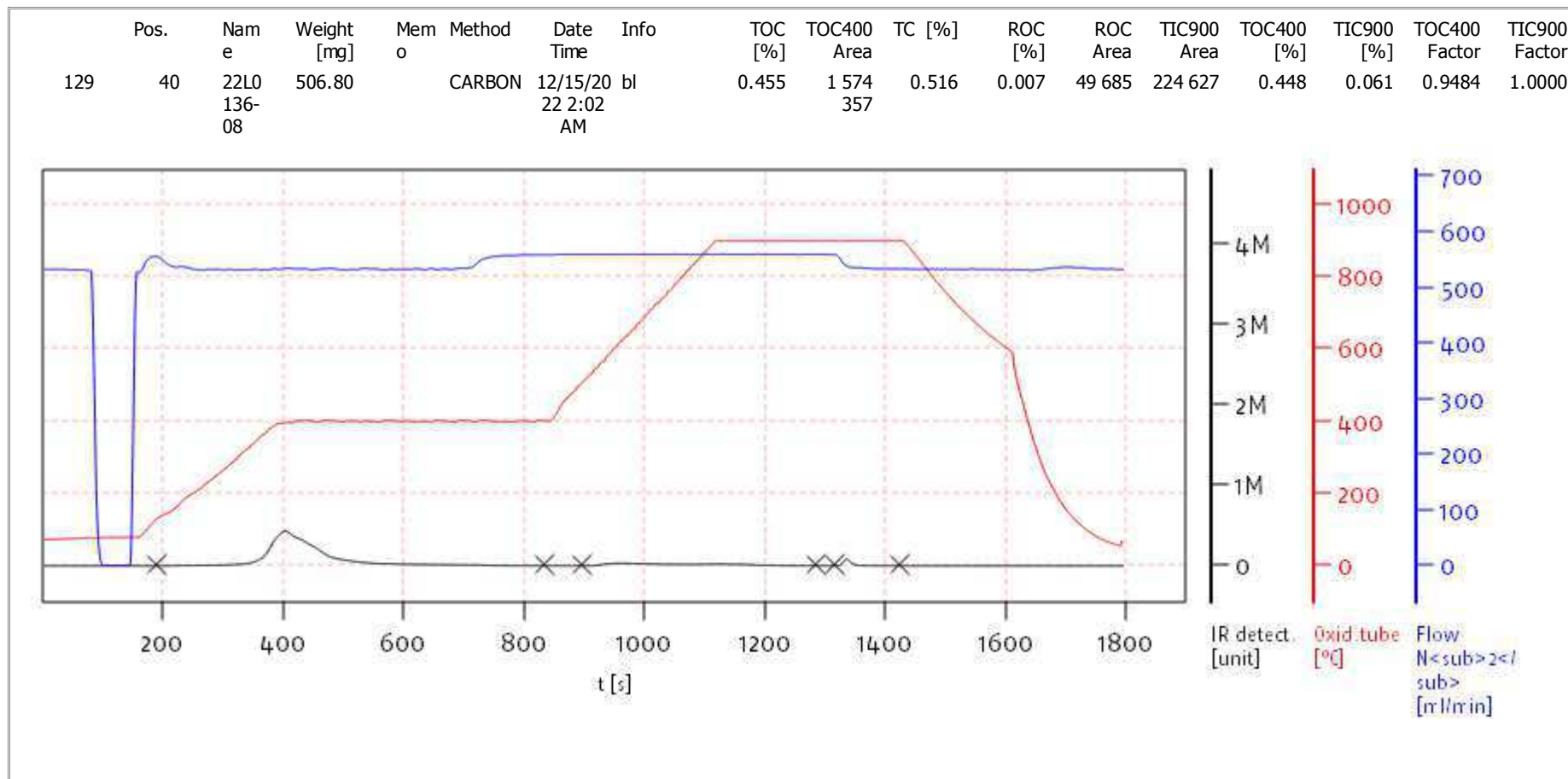
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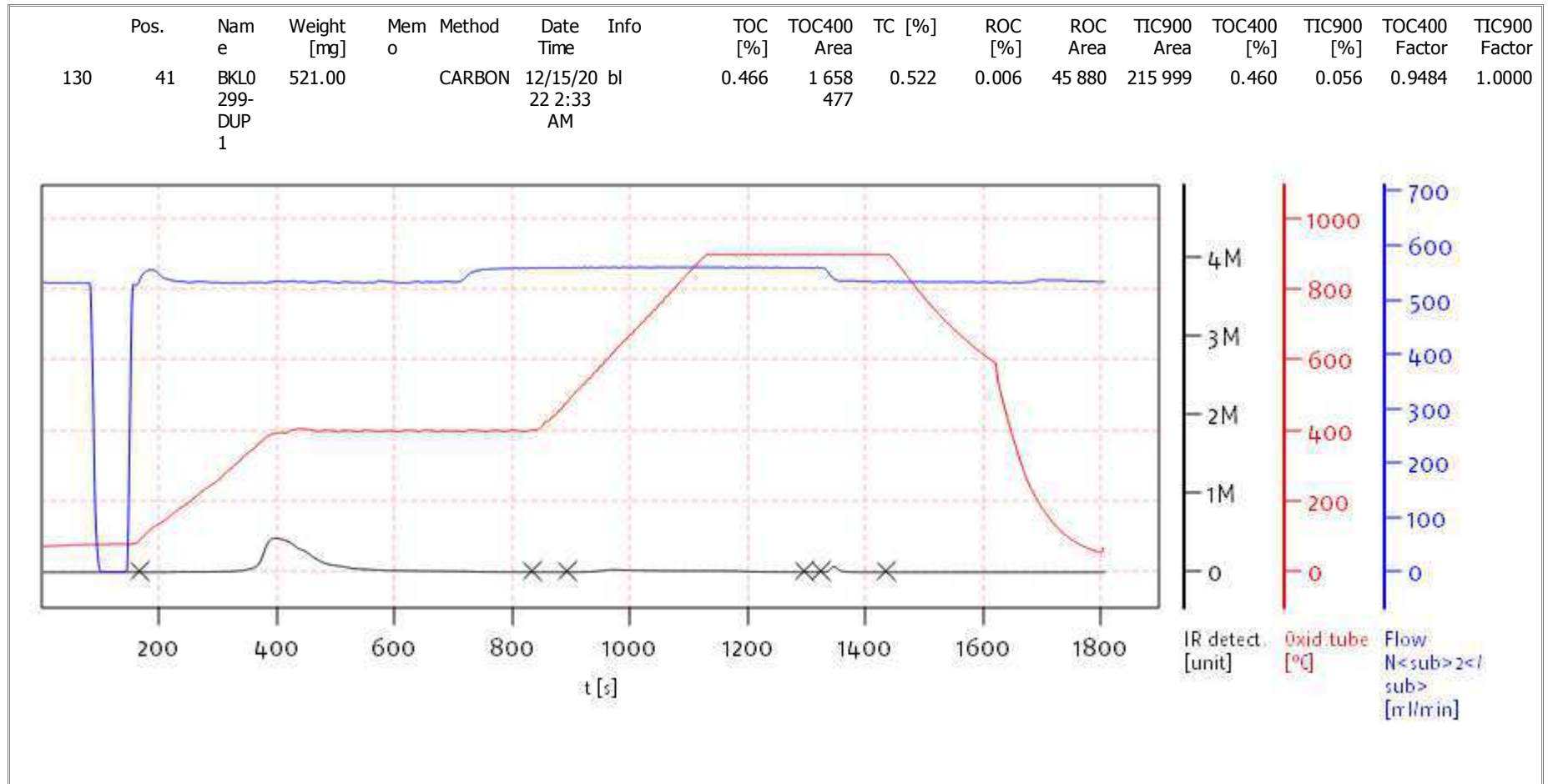
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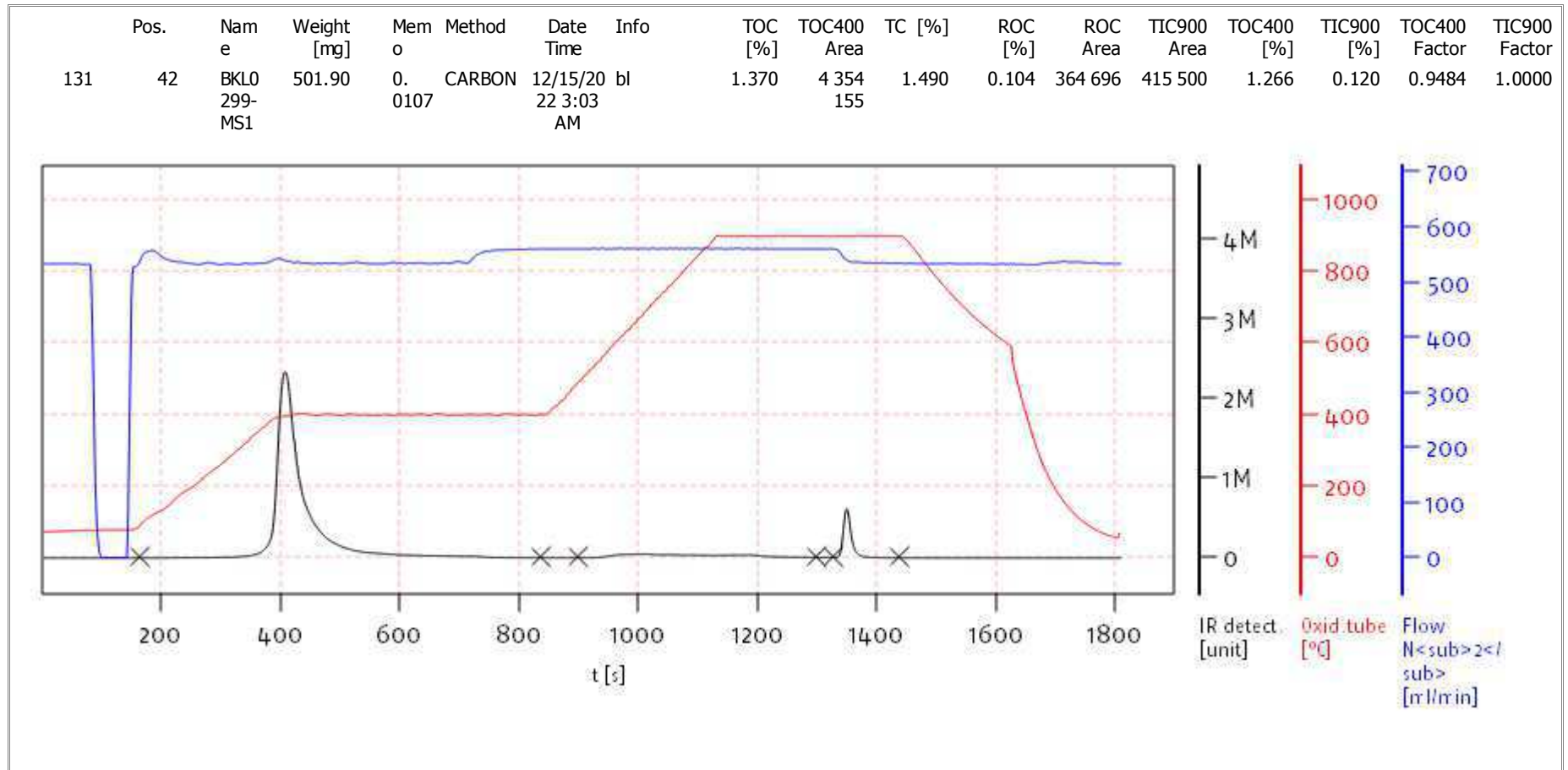
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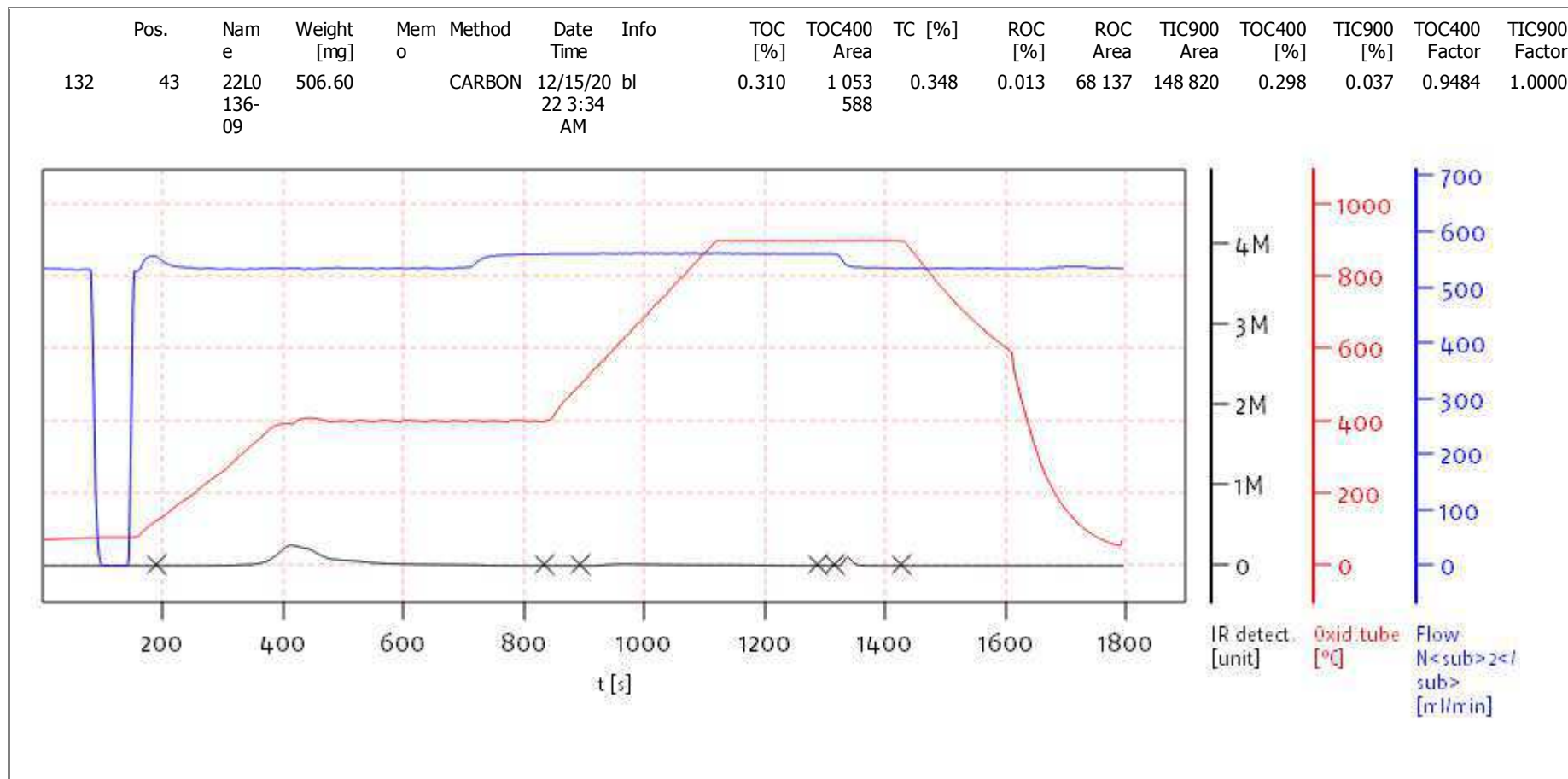
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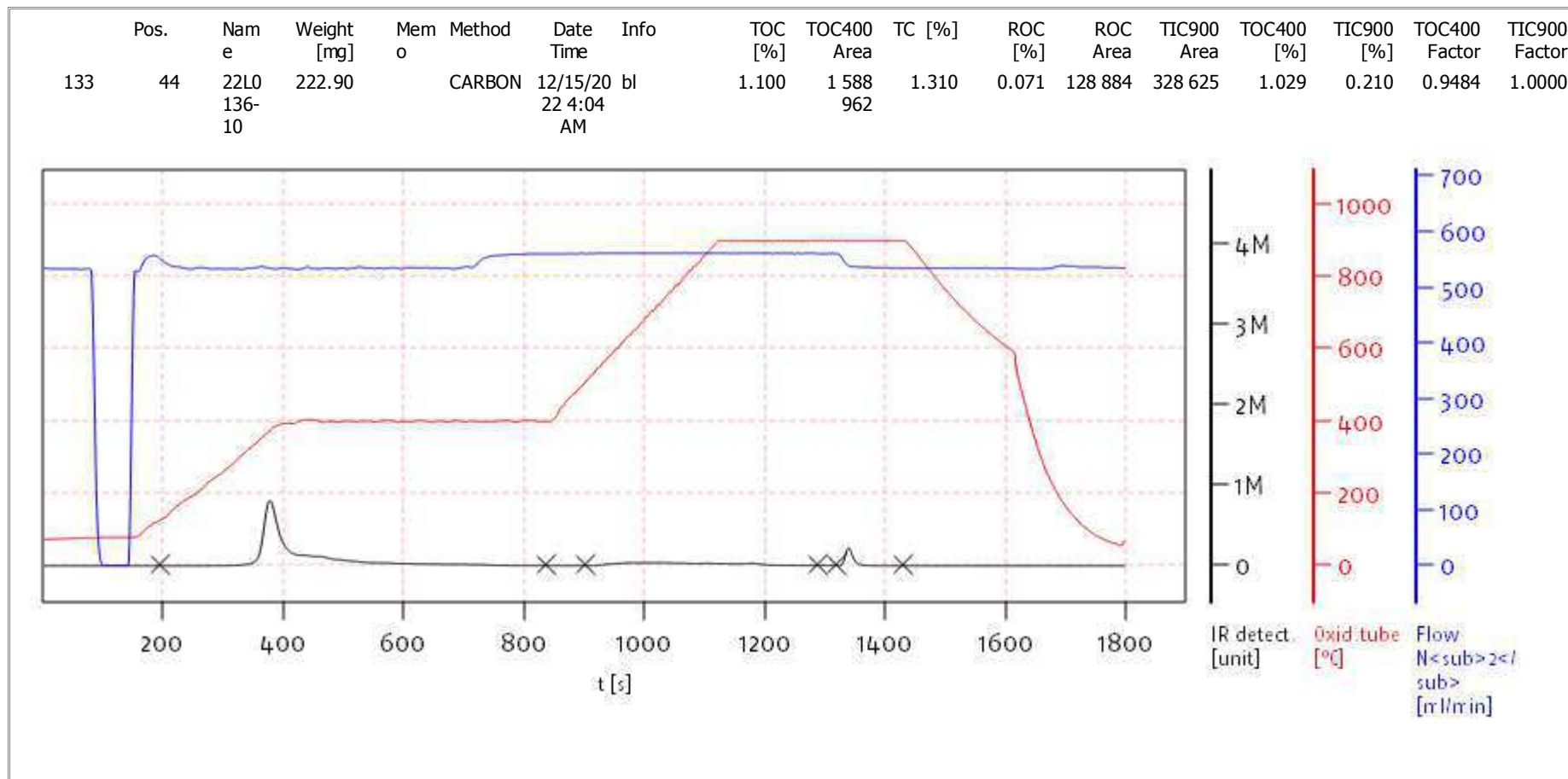
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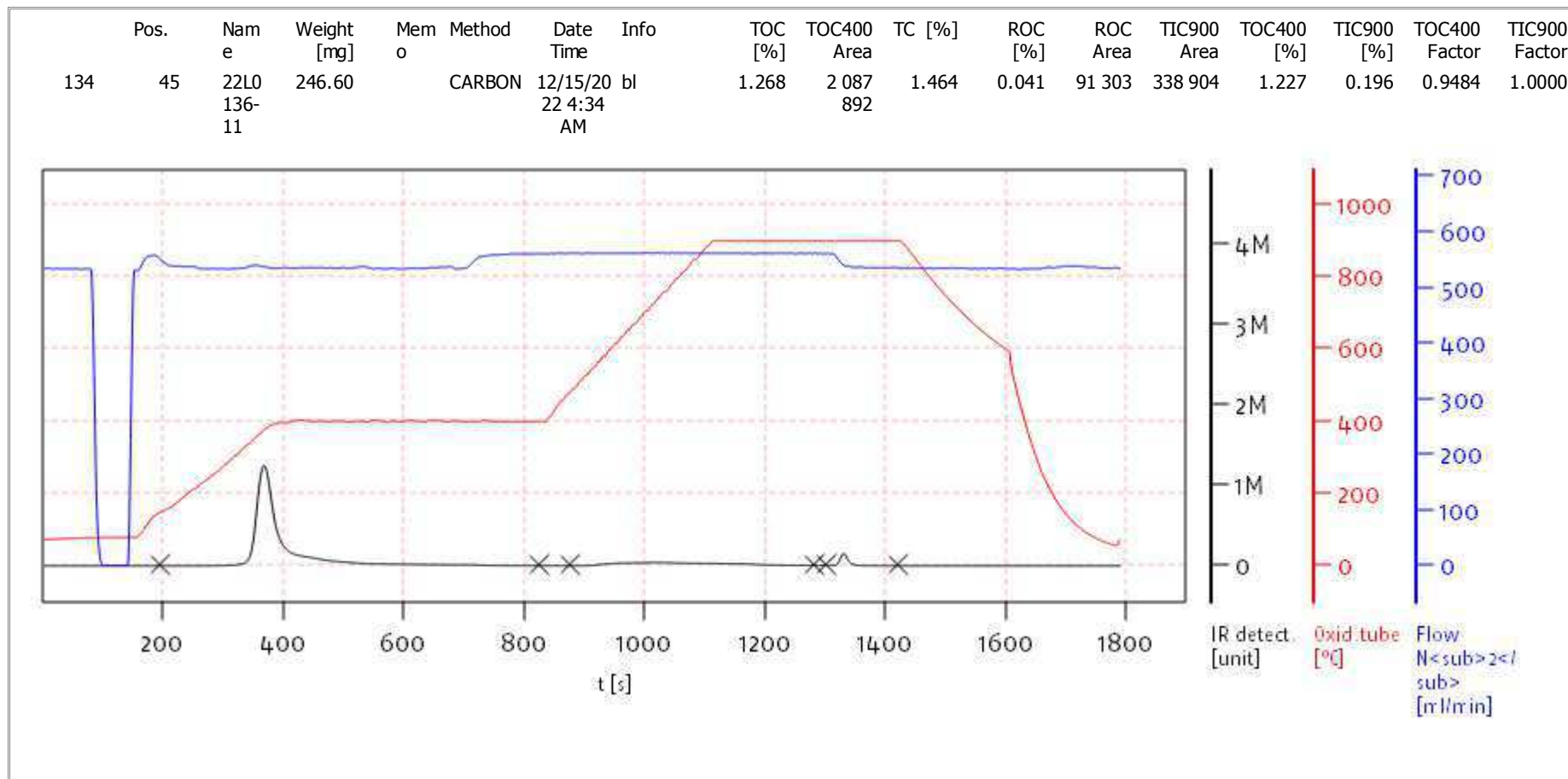
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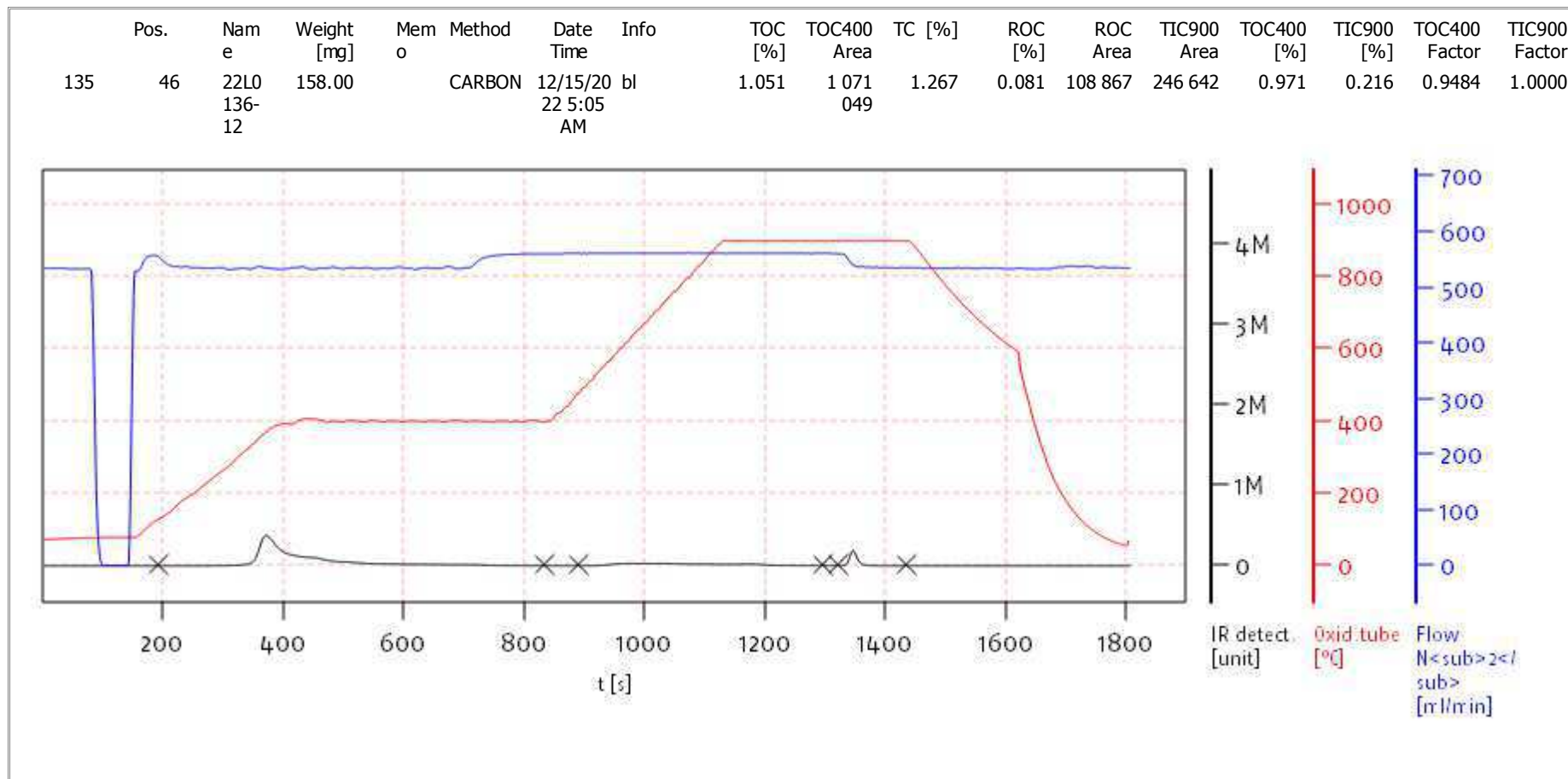
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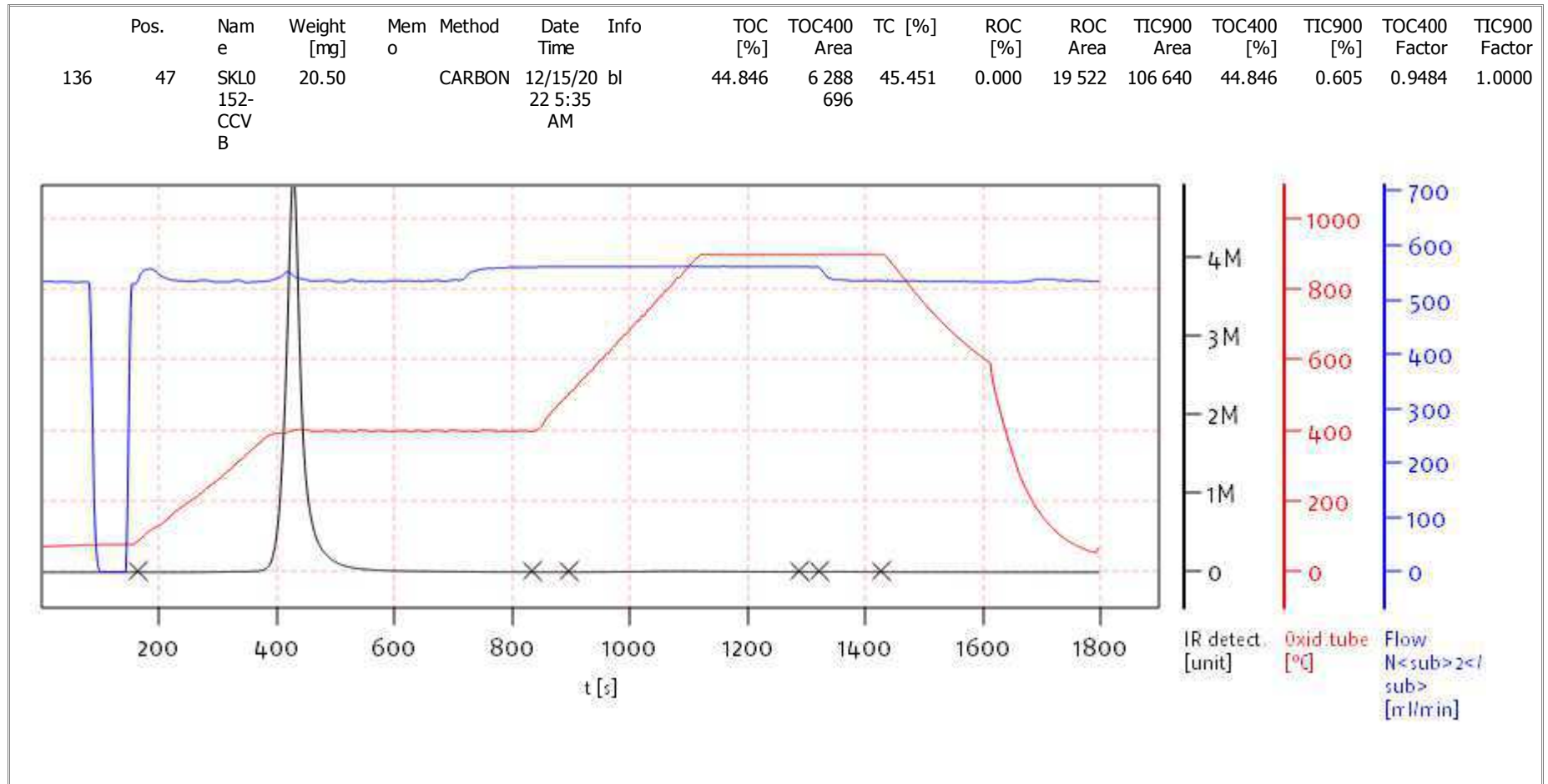
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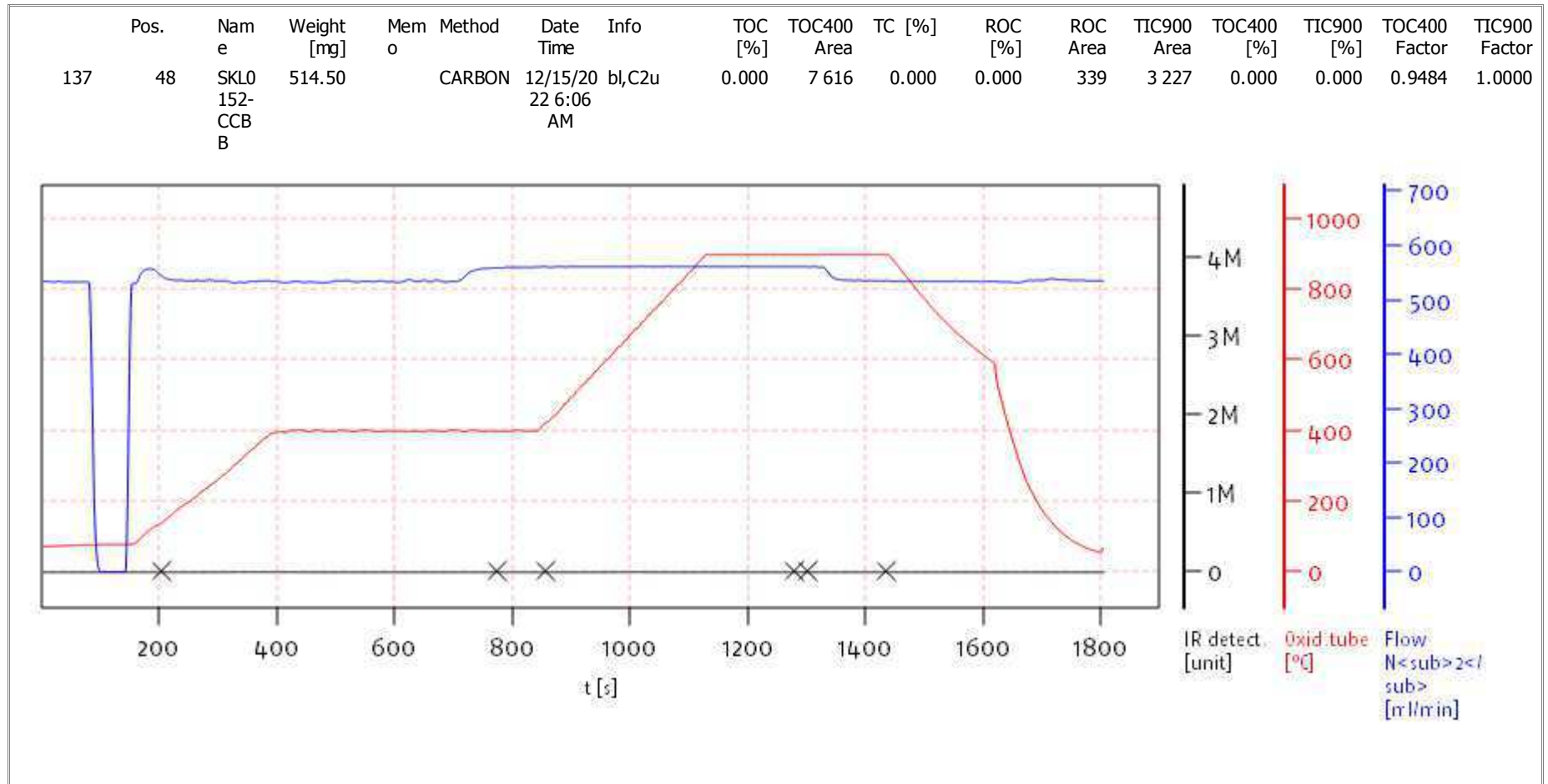
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 Serial No: 0300.181017
 Mode CCC

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 Balance: BAL3
 Analyst: DOE



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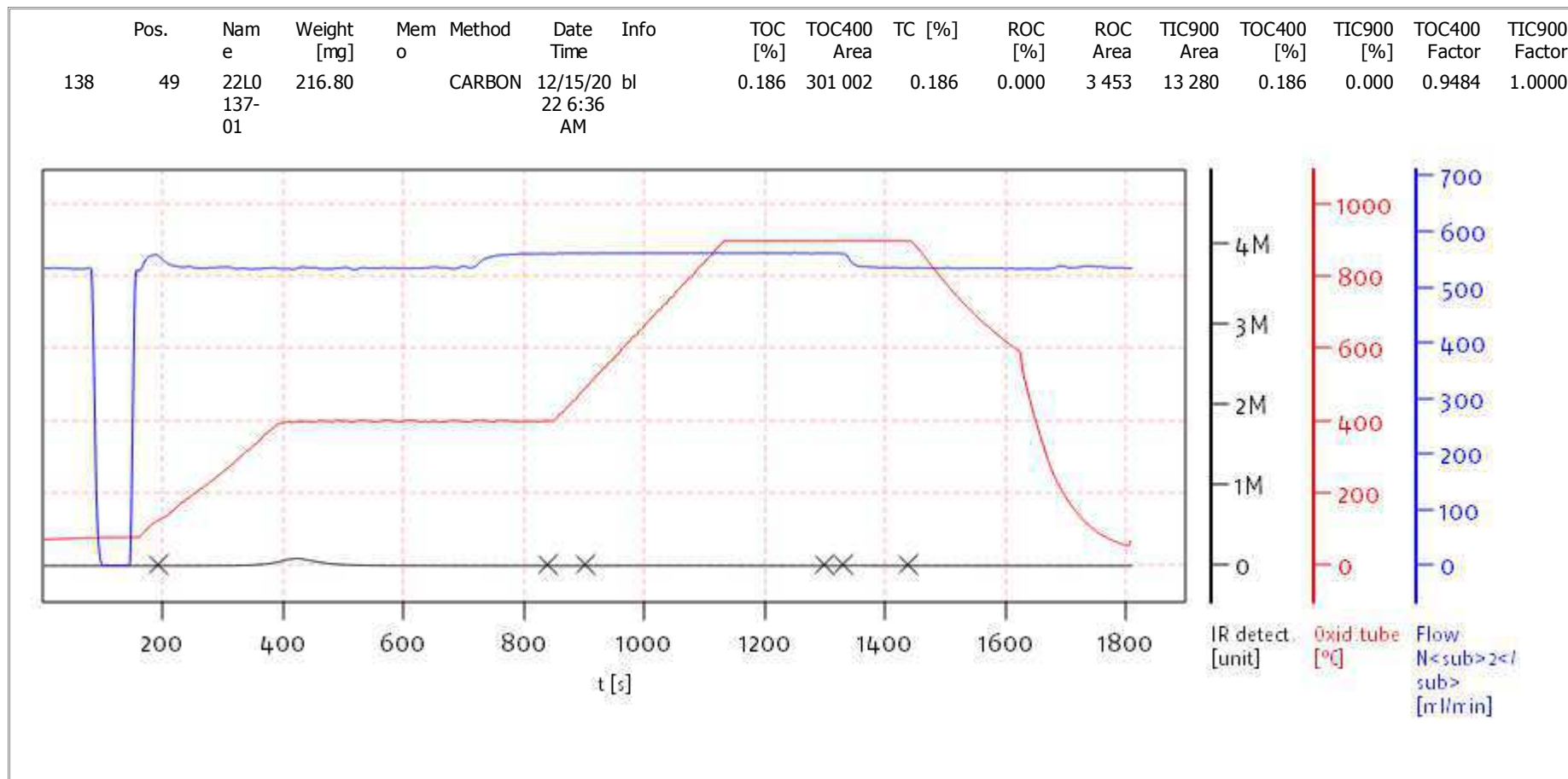
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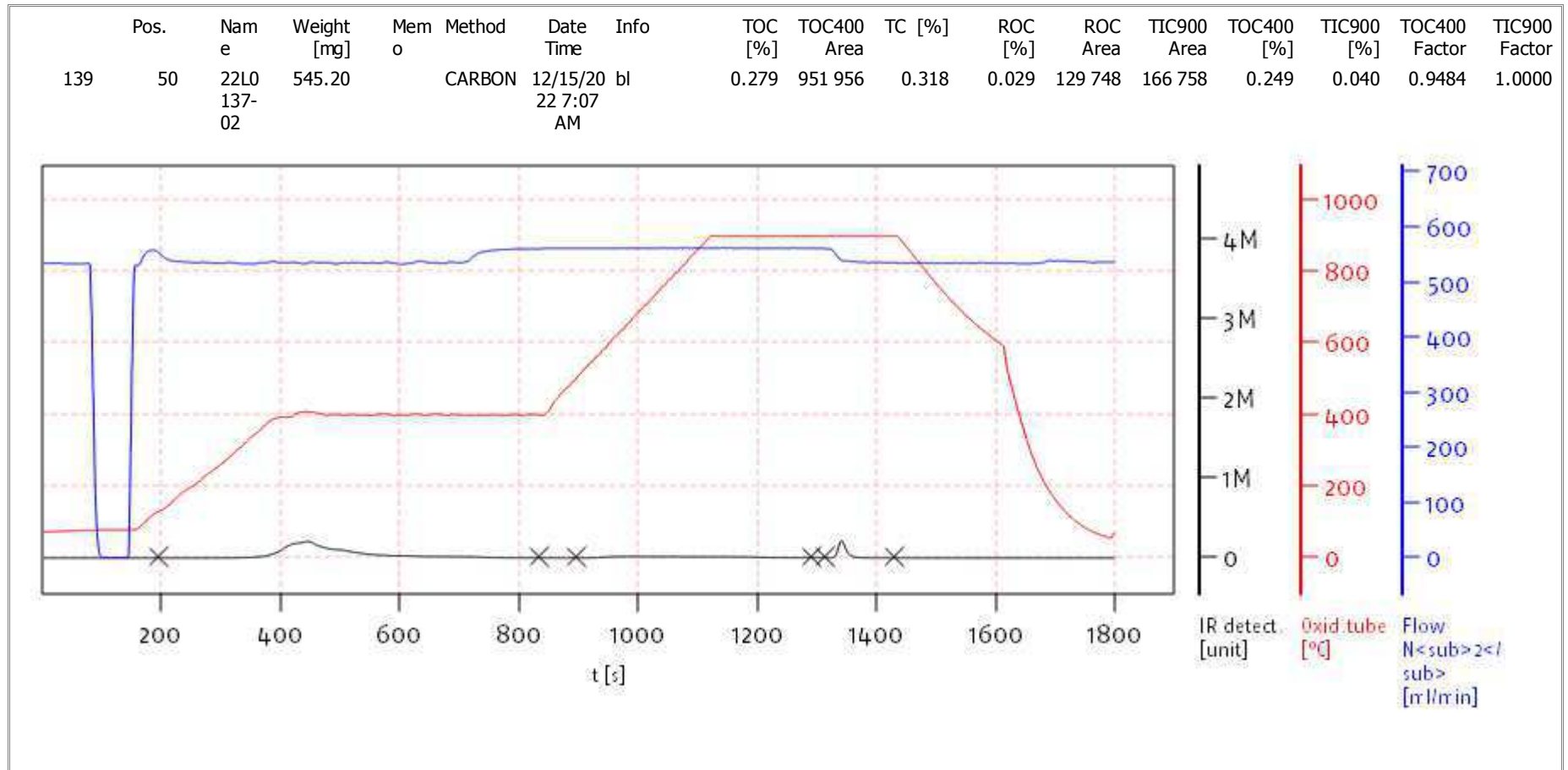
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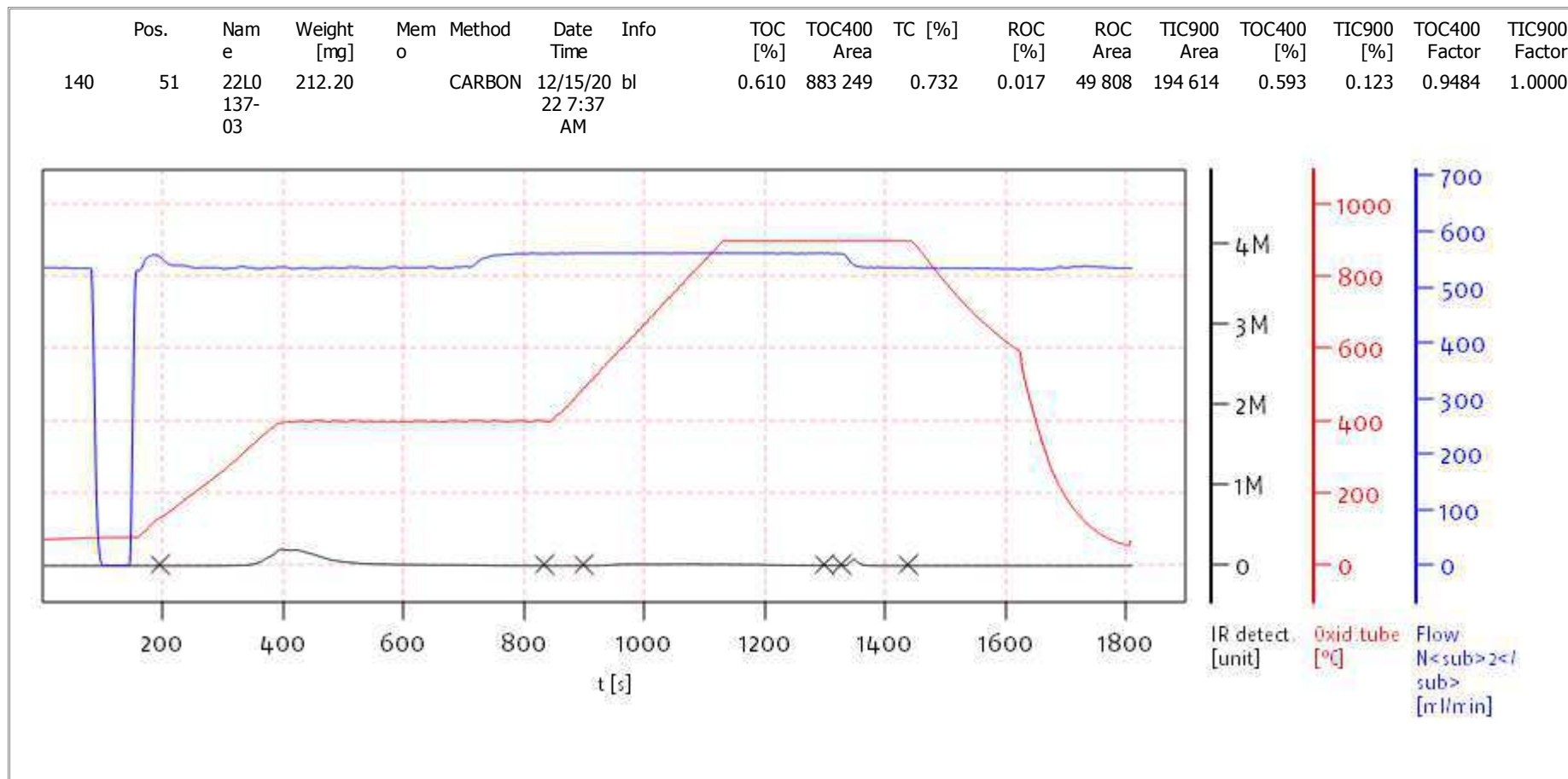
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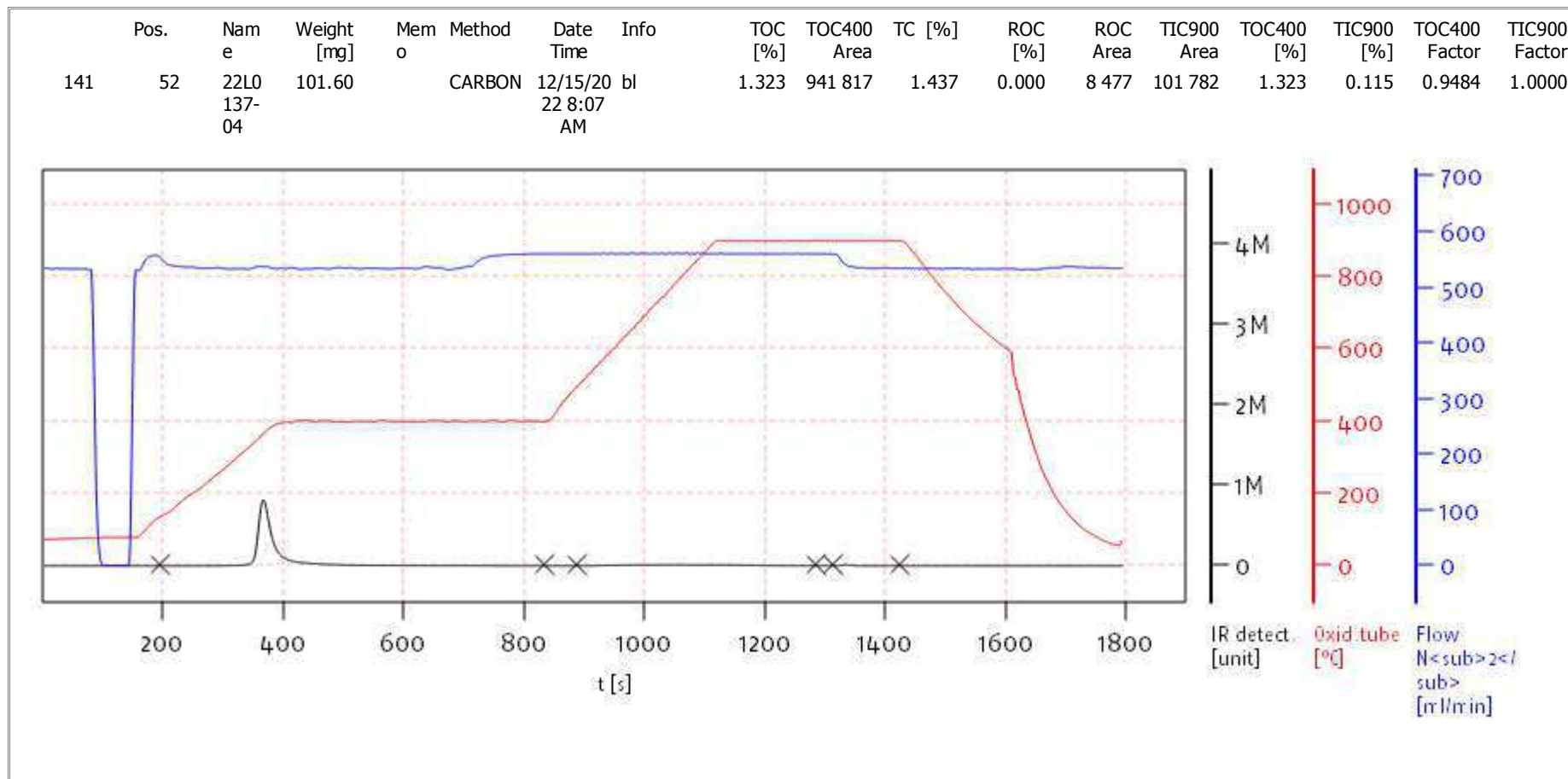
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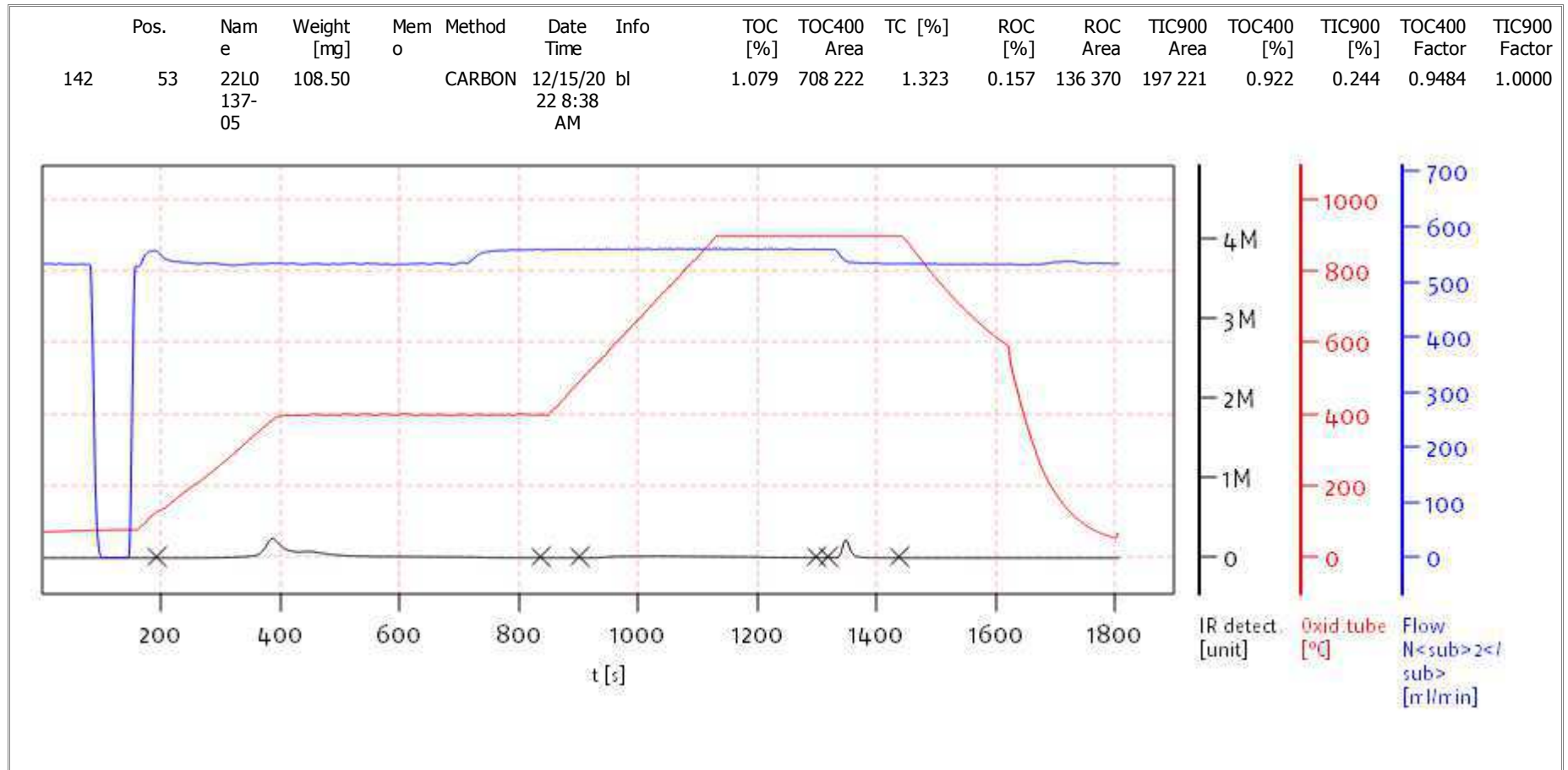
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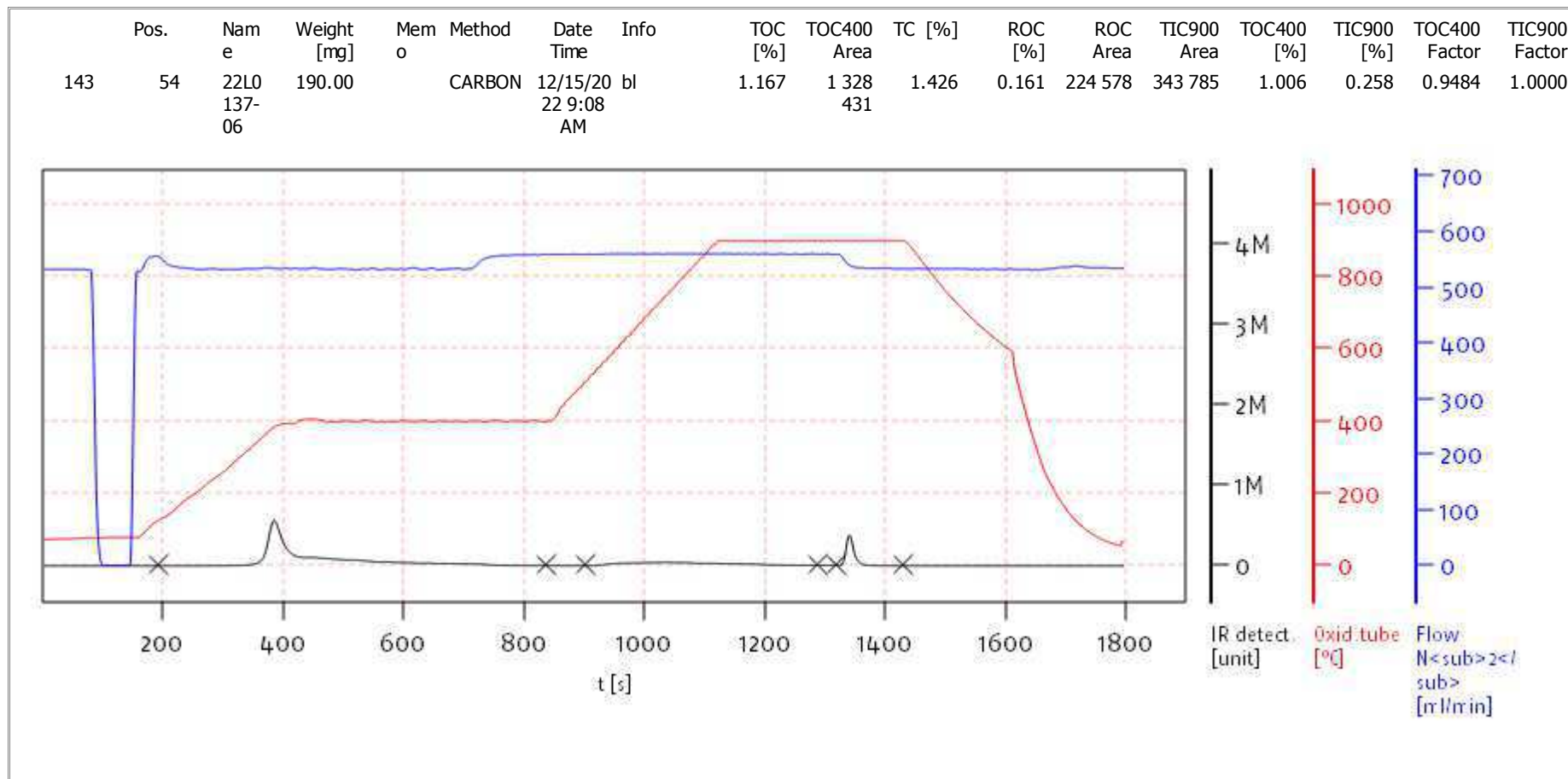
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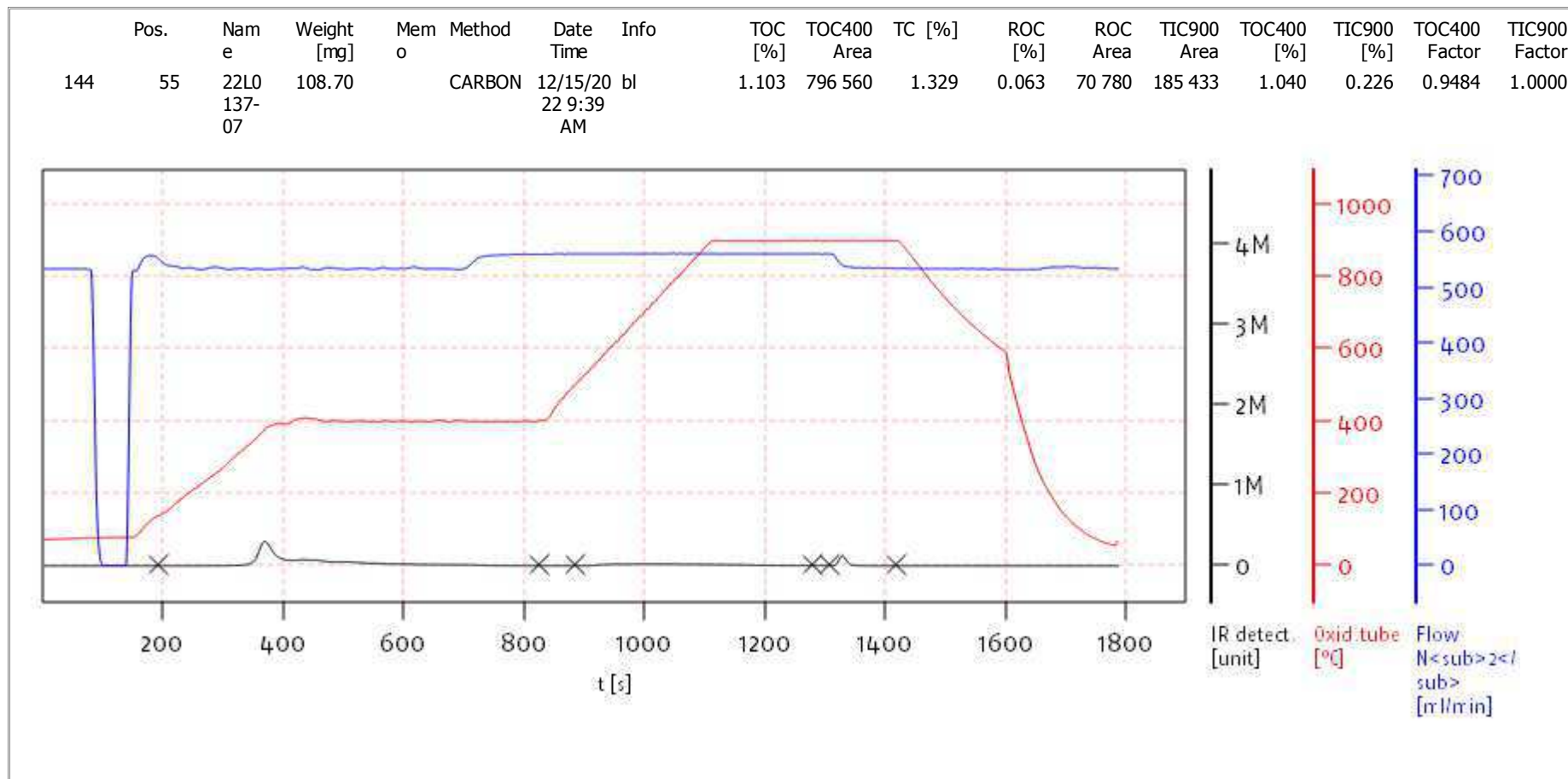
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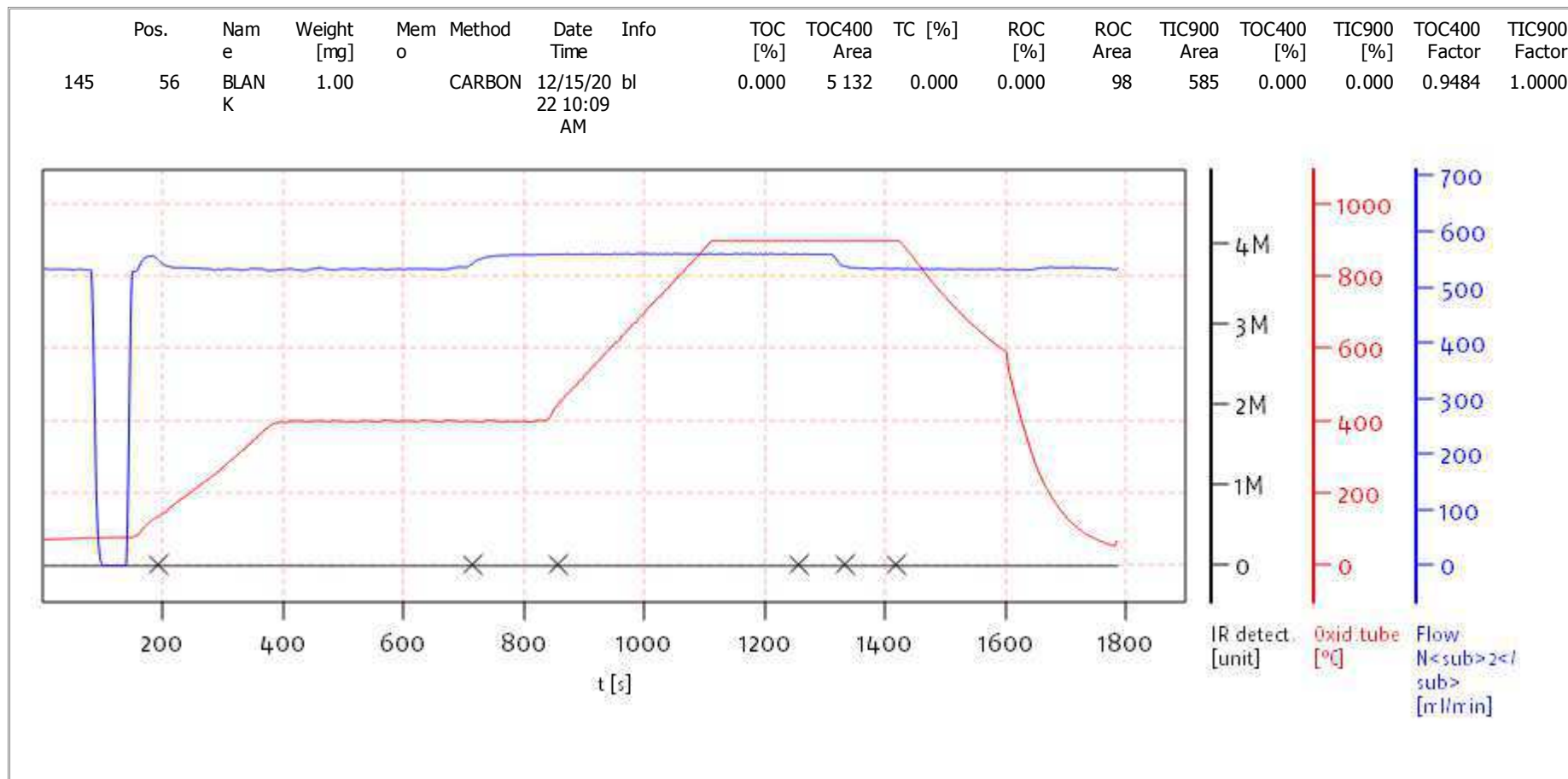
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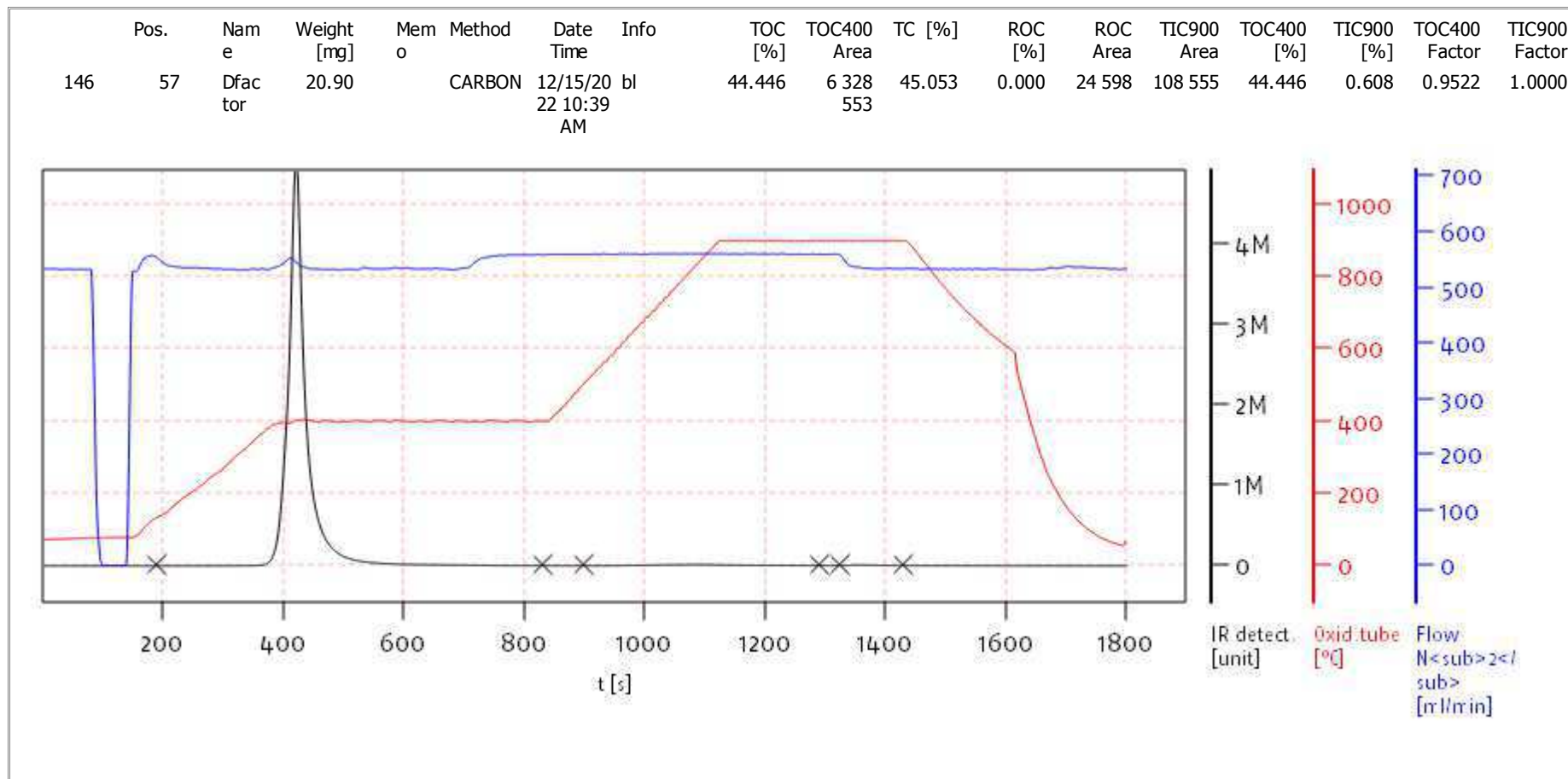
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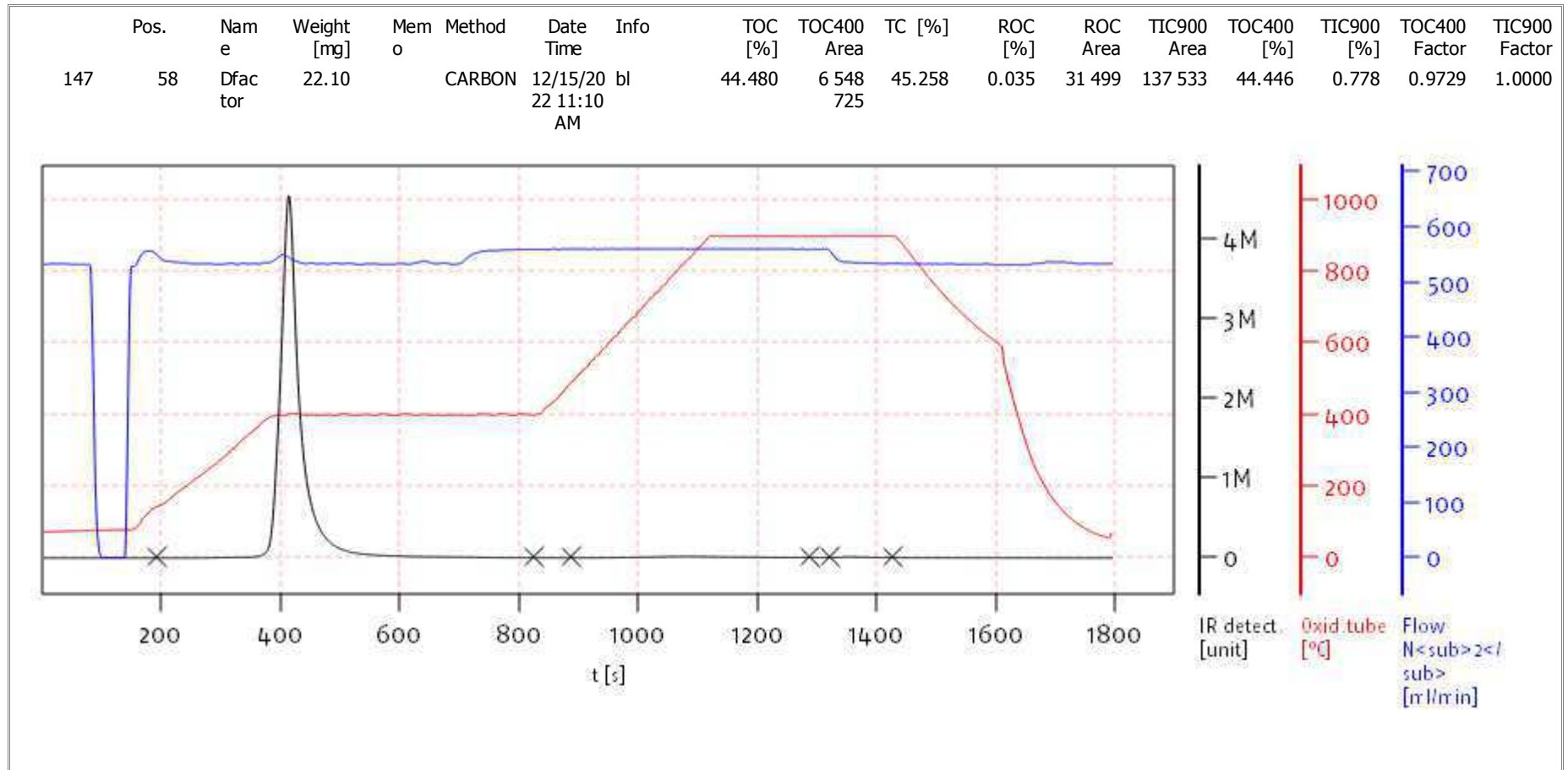
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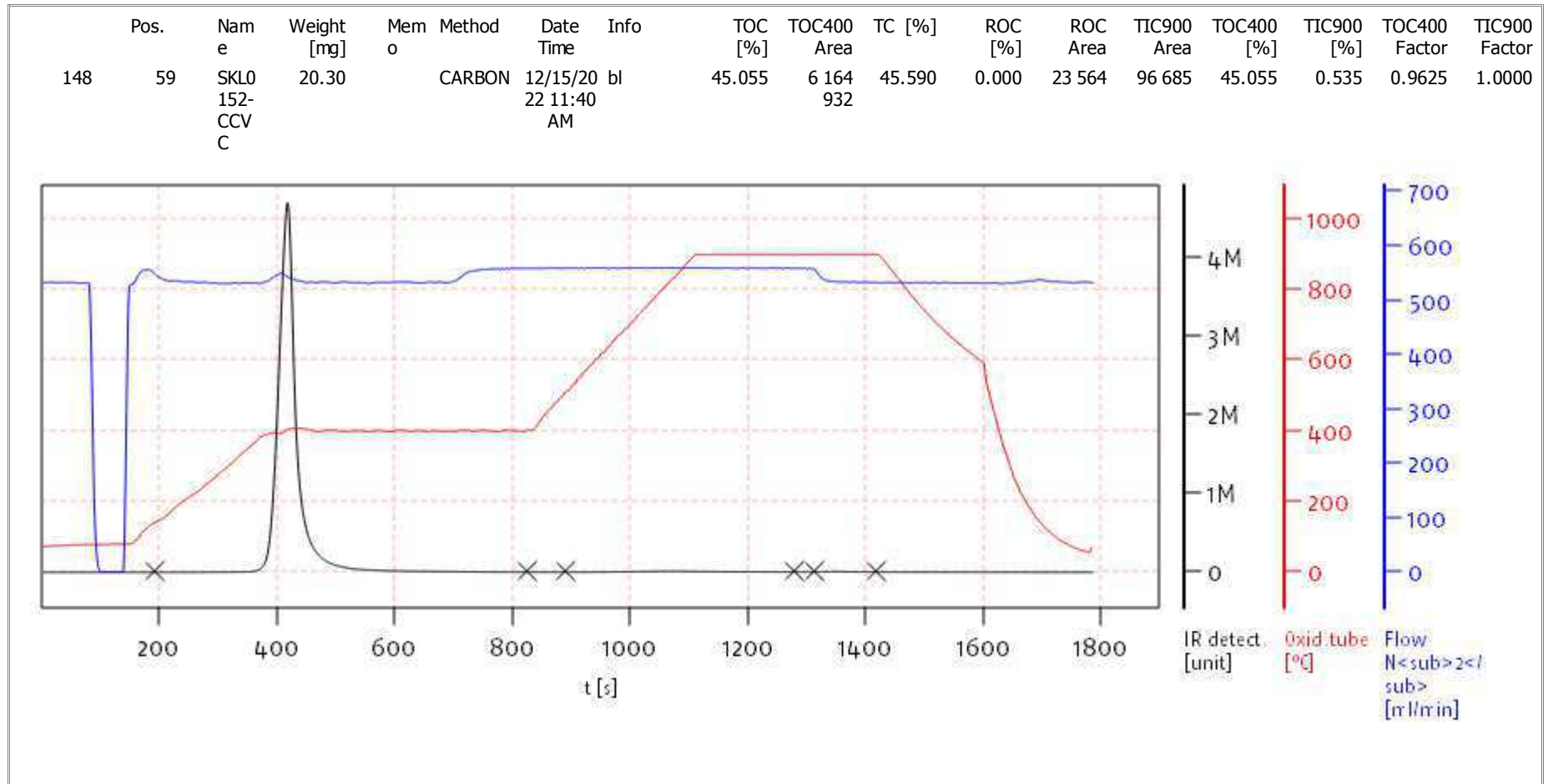
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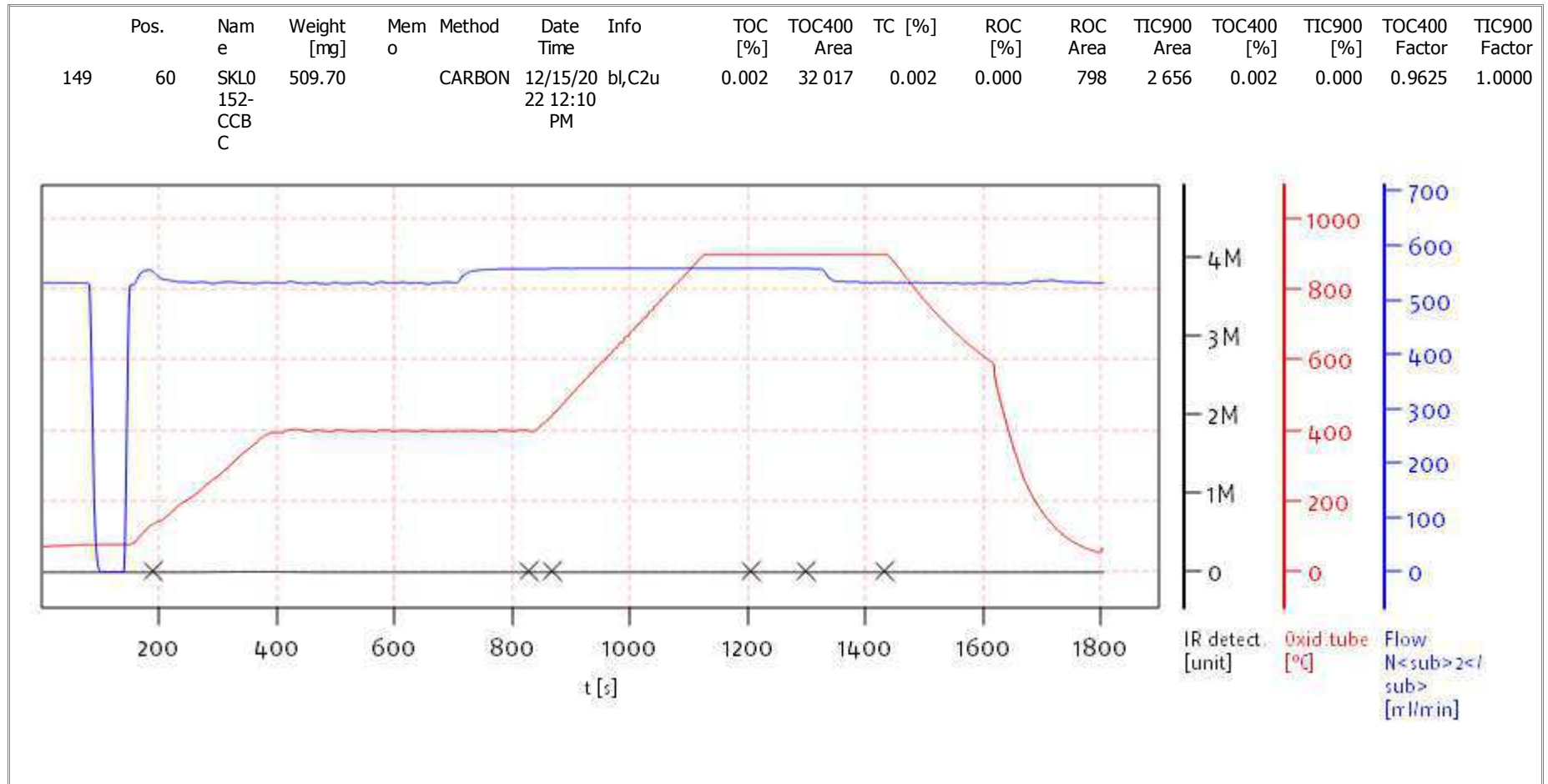
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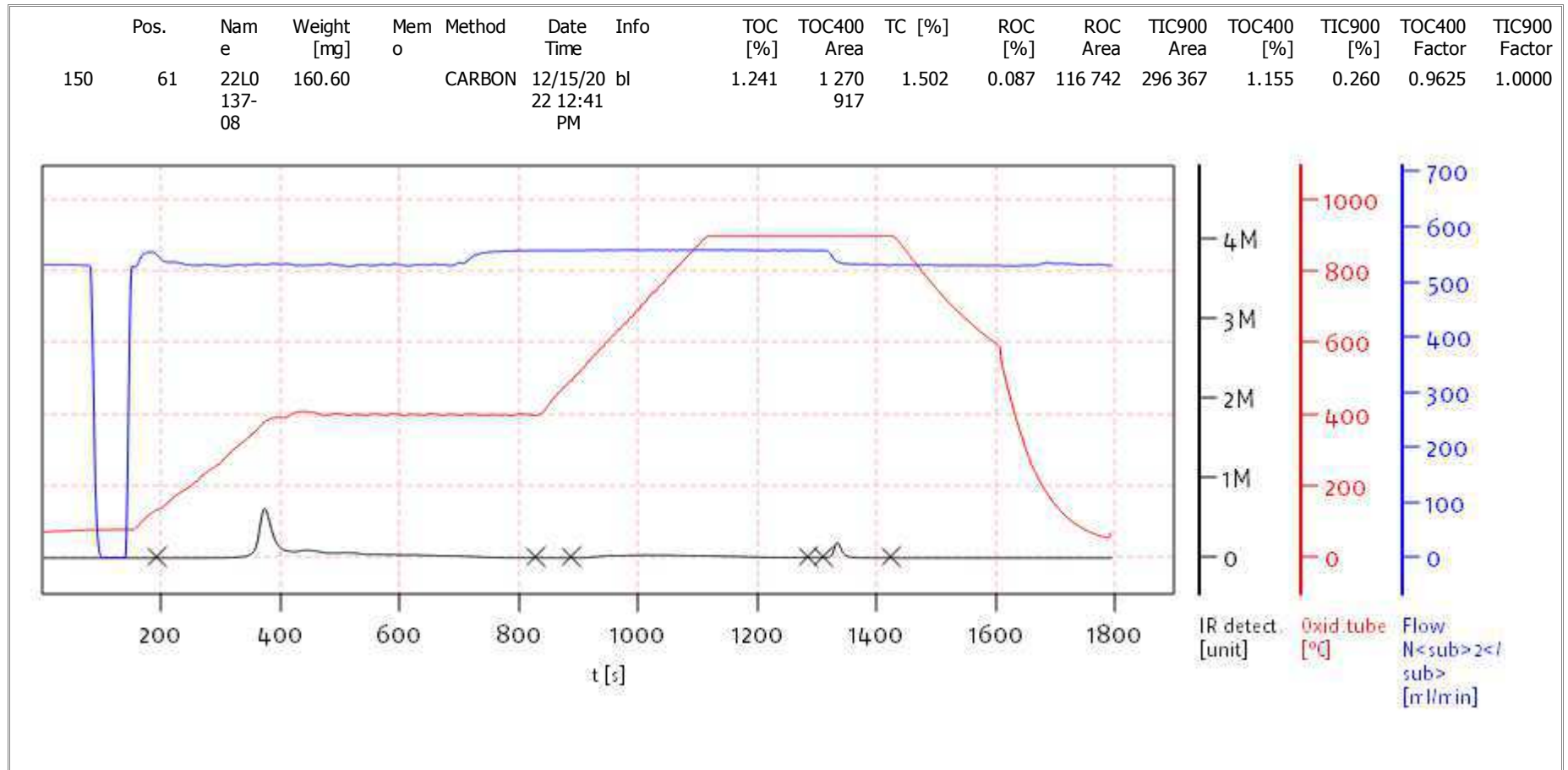
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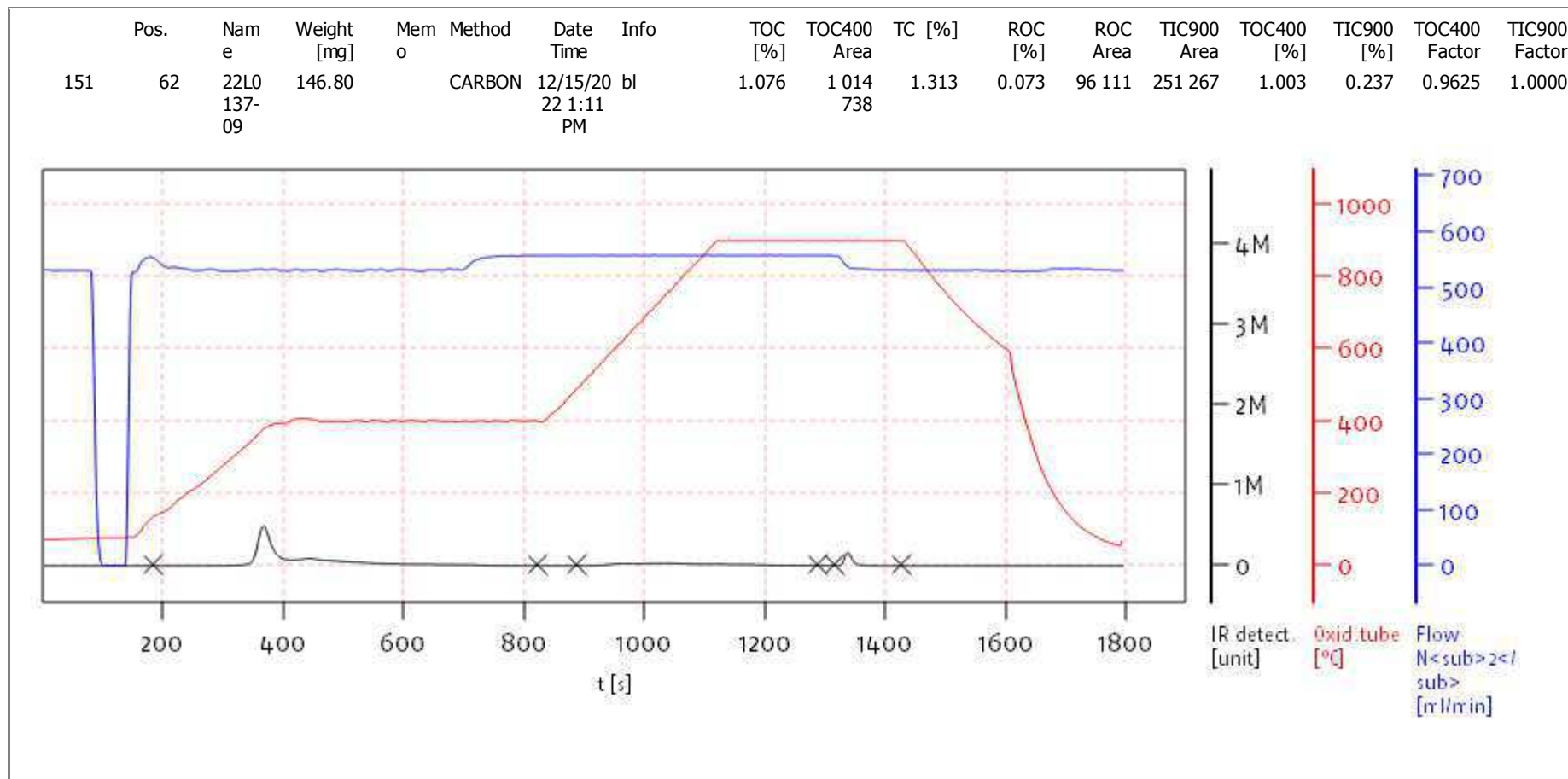
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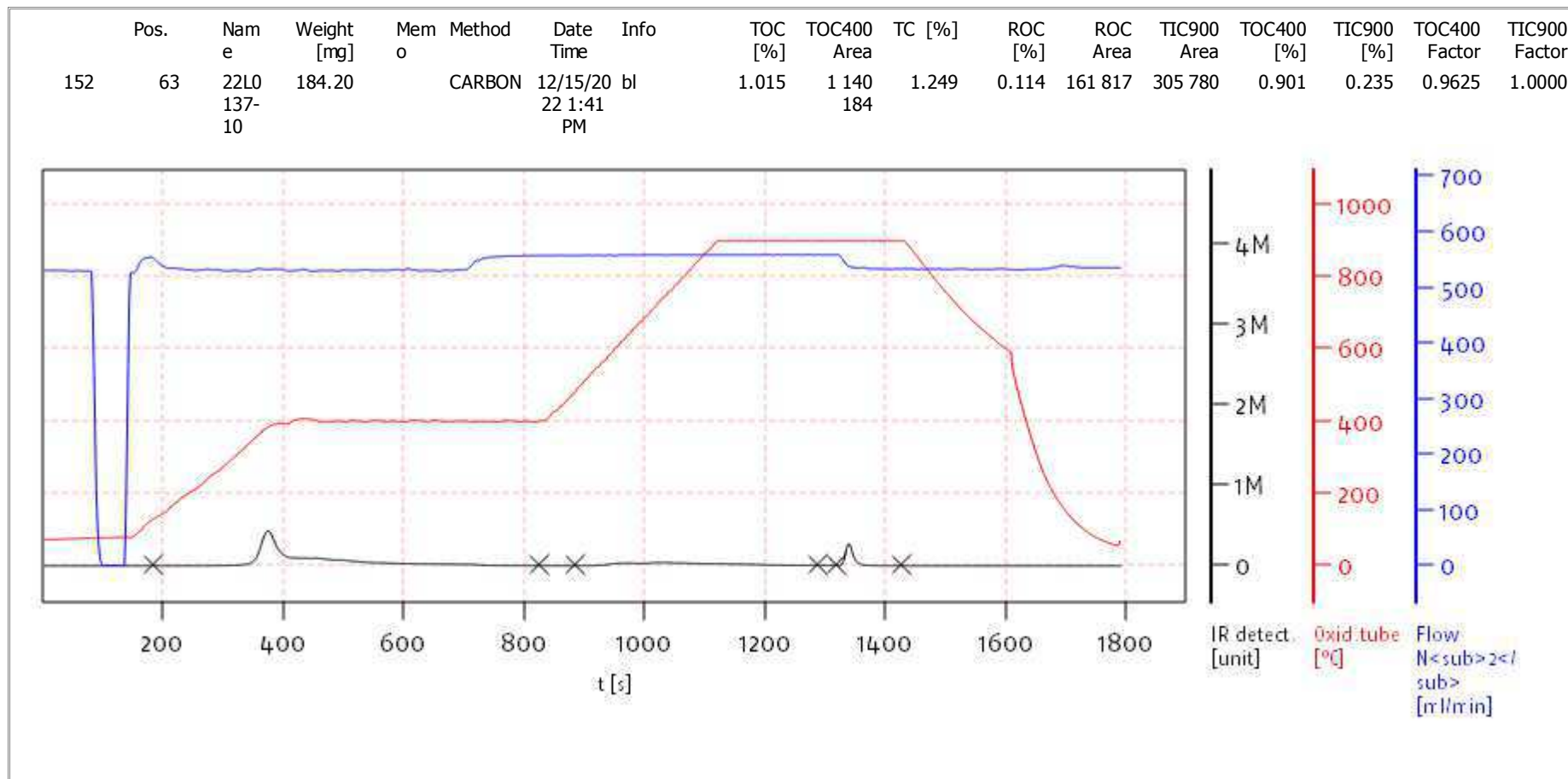
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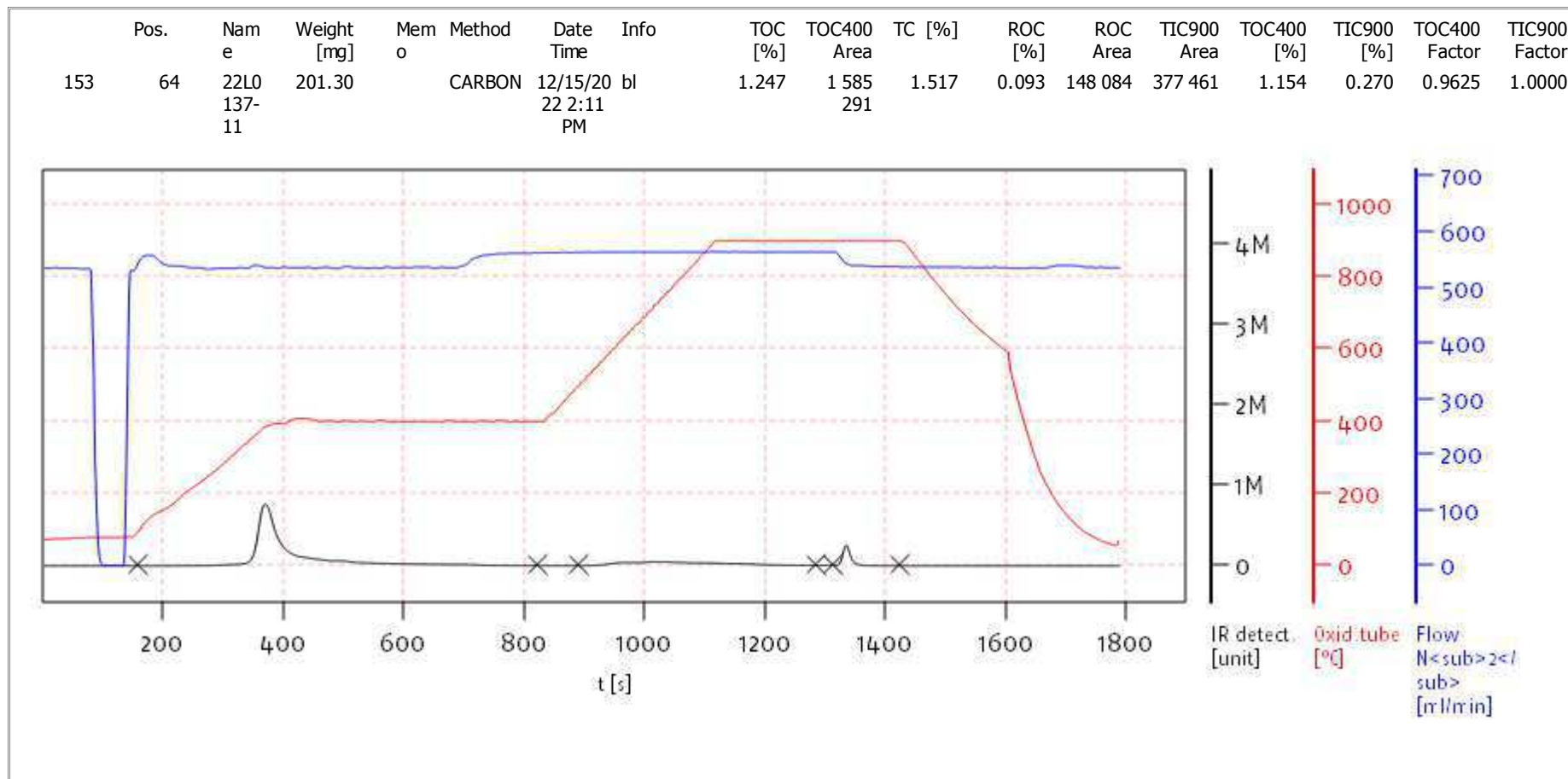
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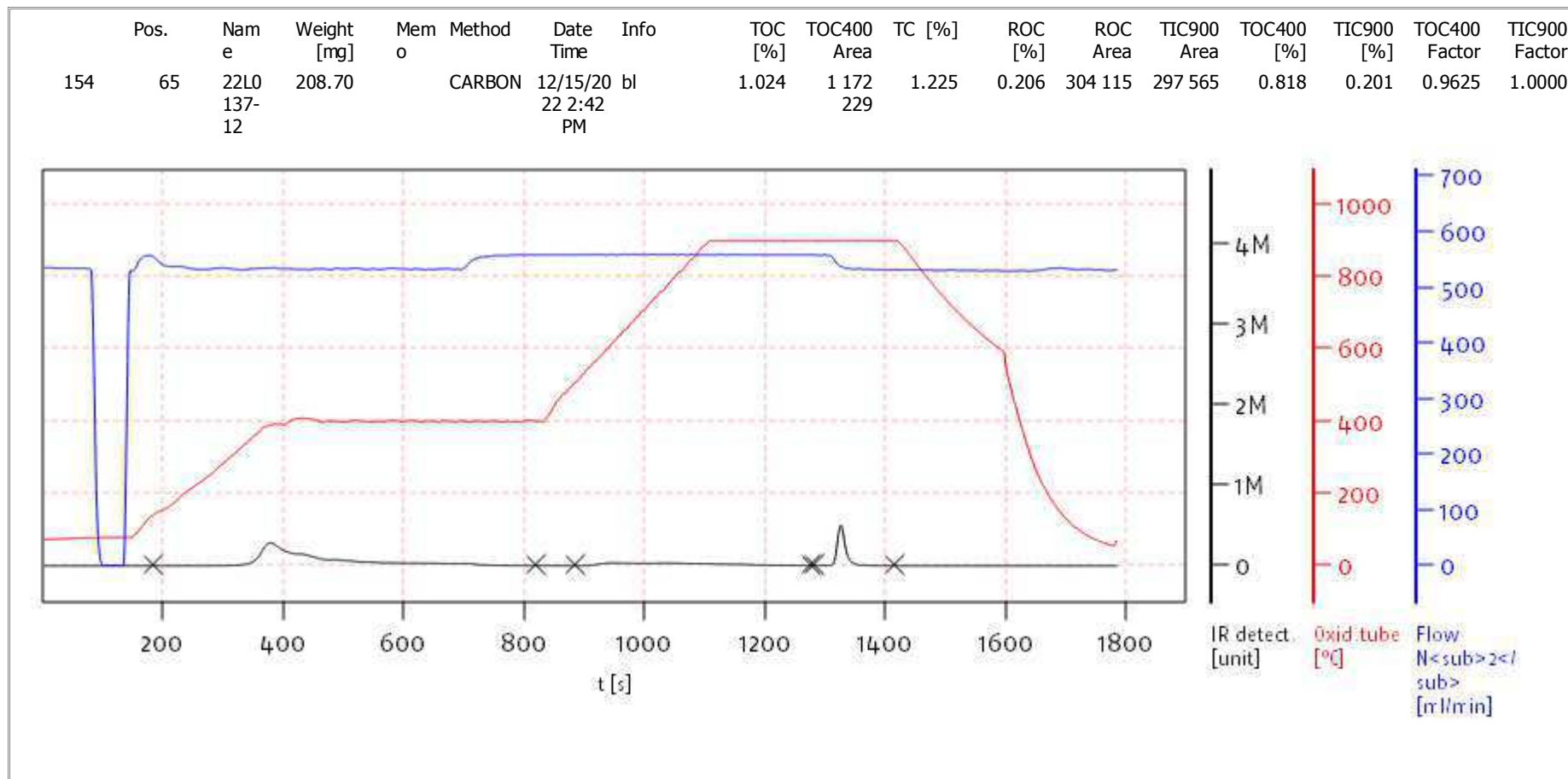
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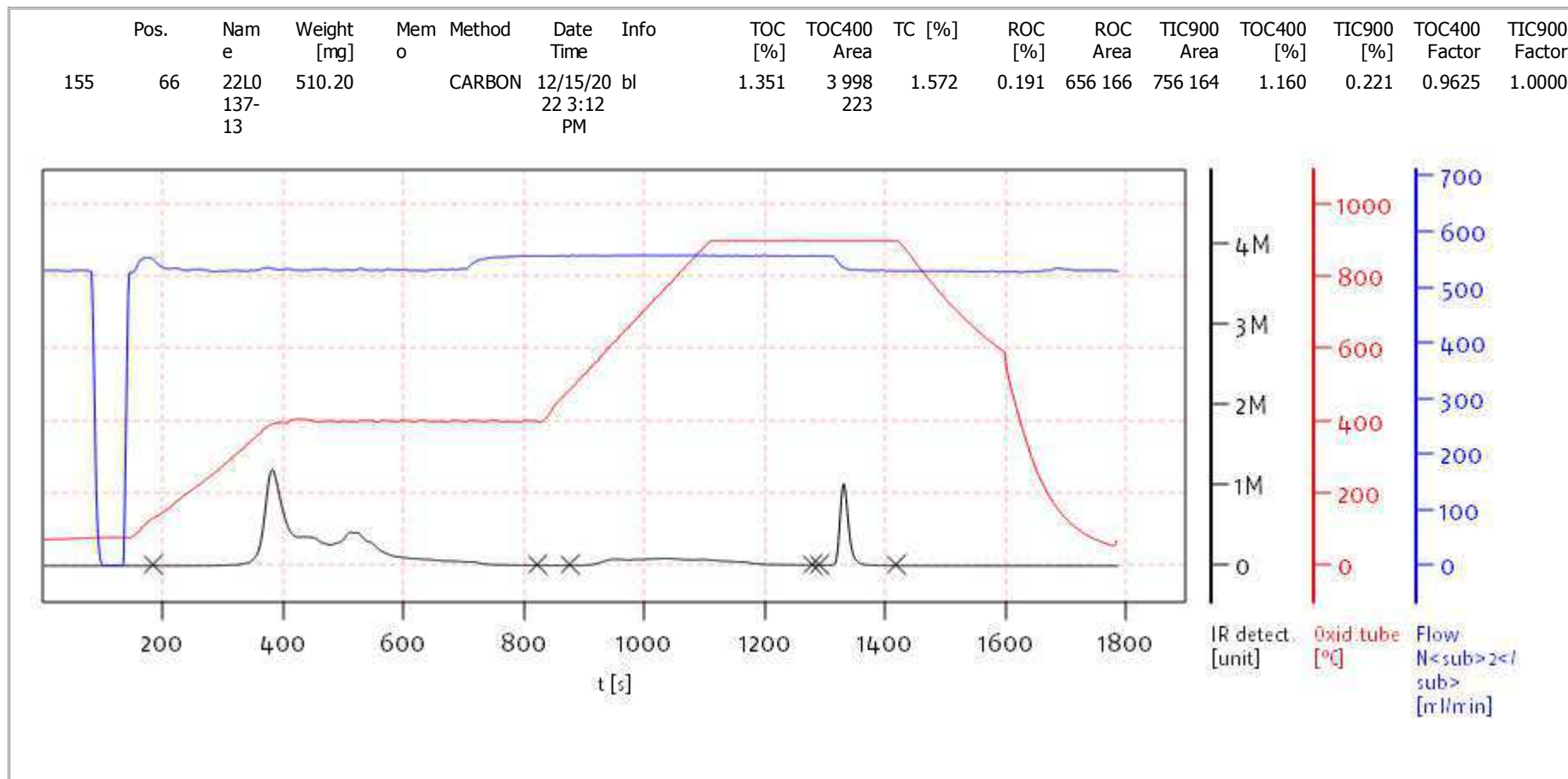
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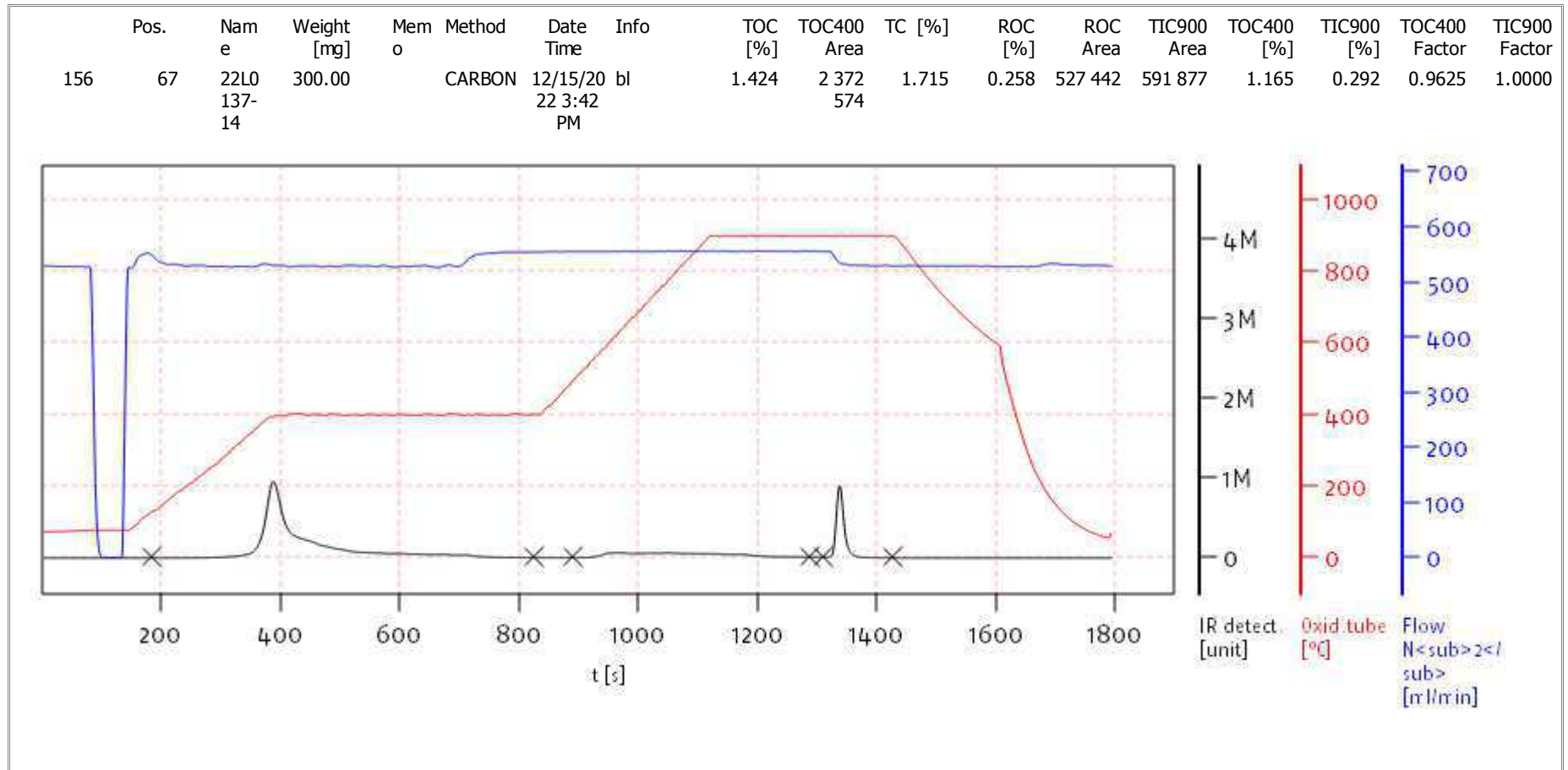
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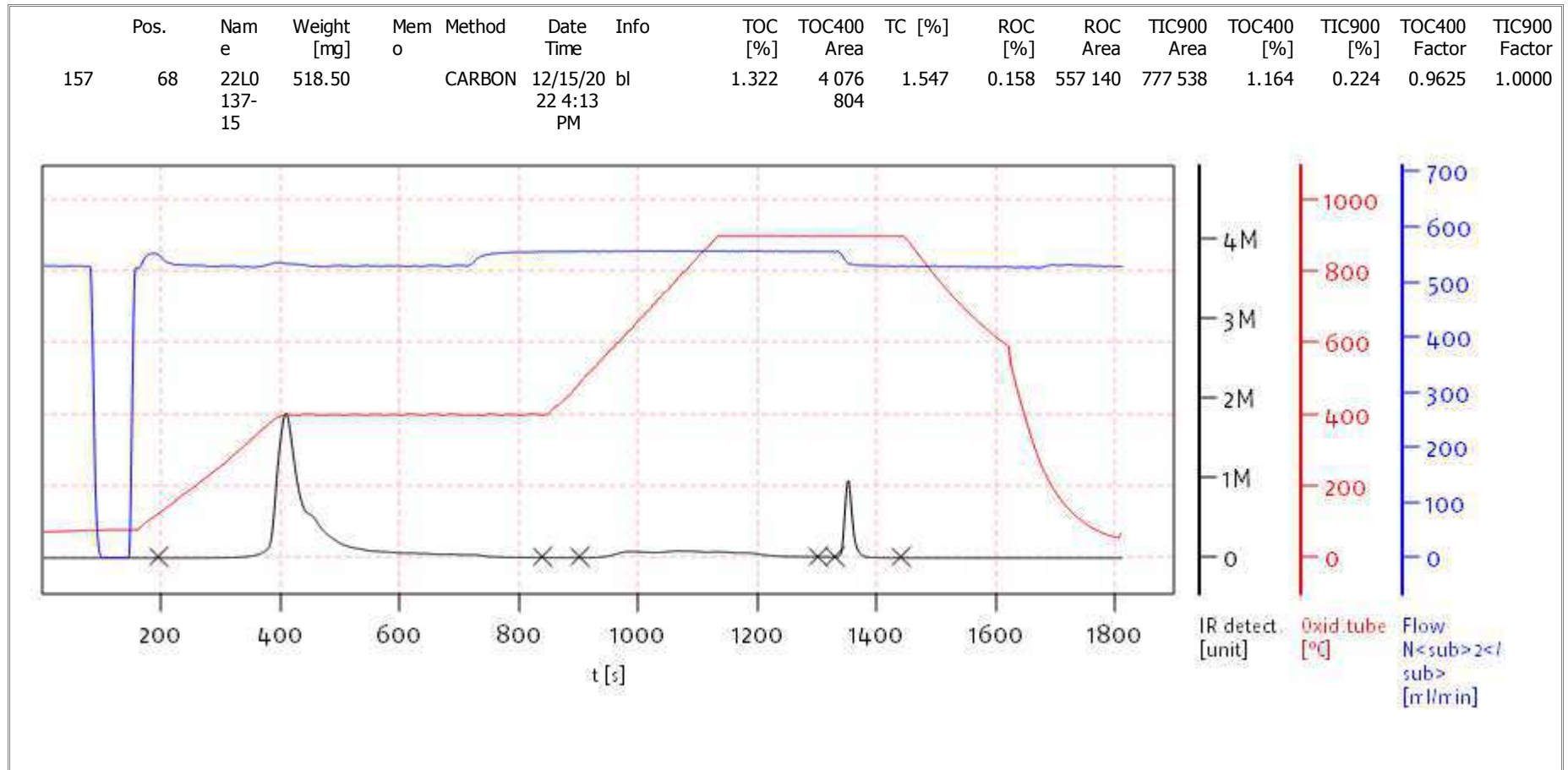
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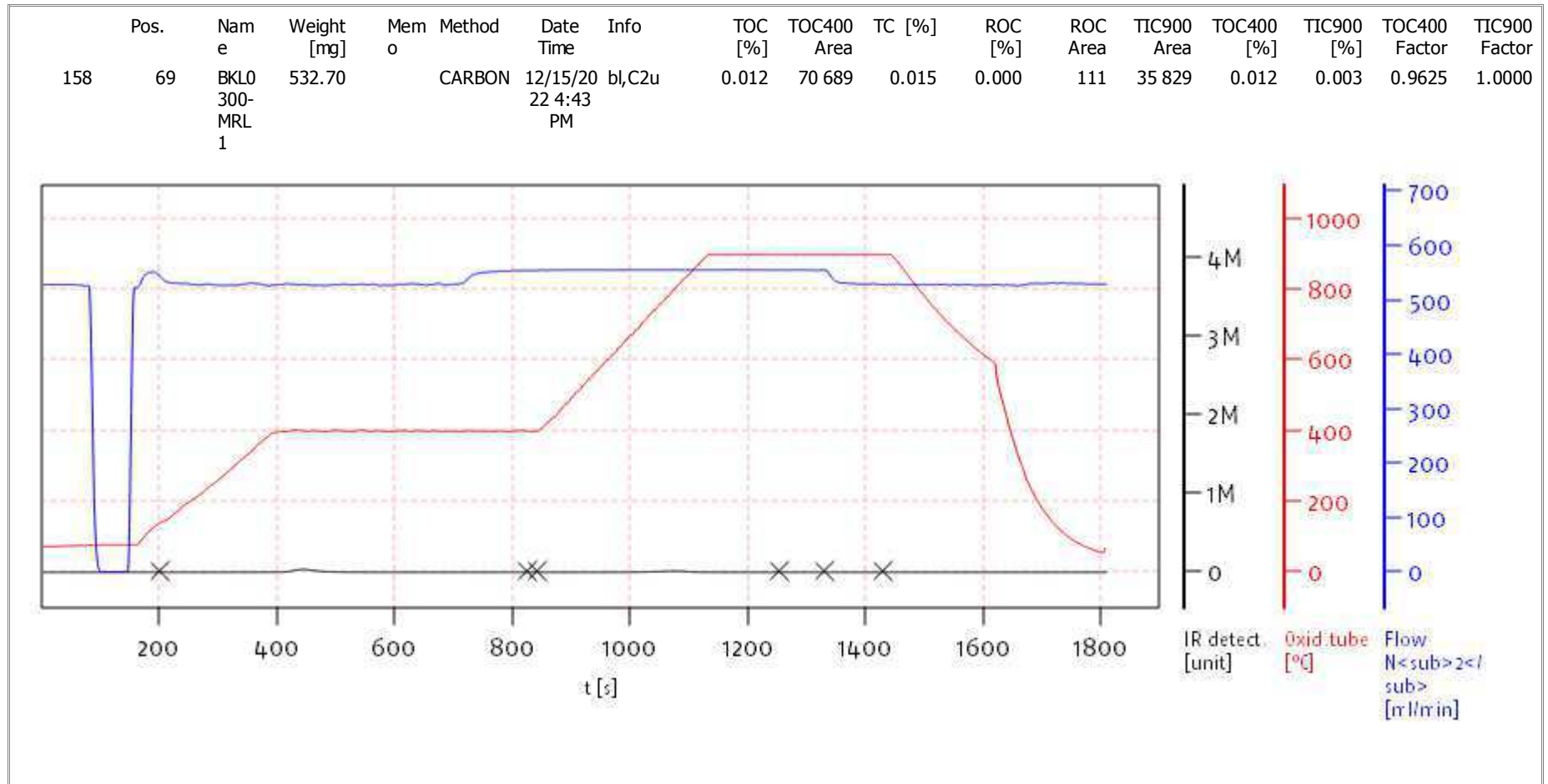
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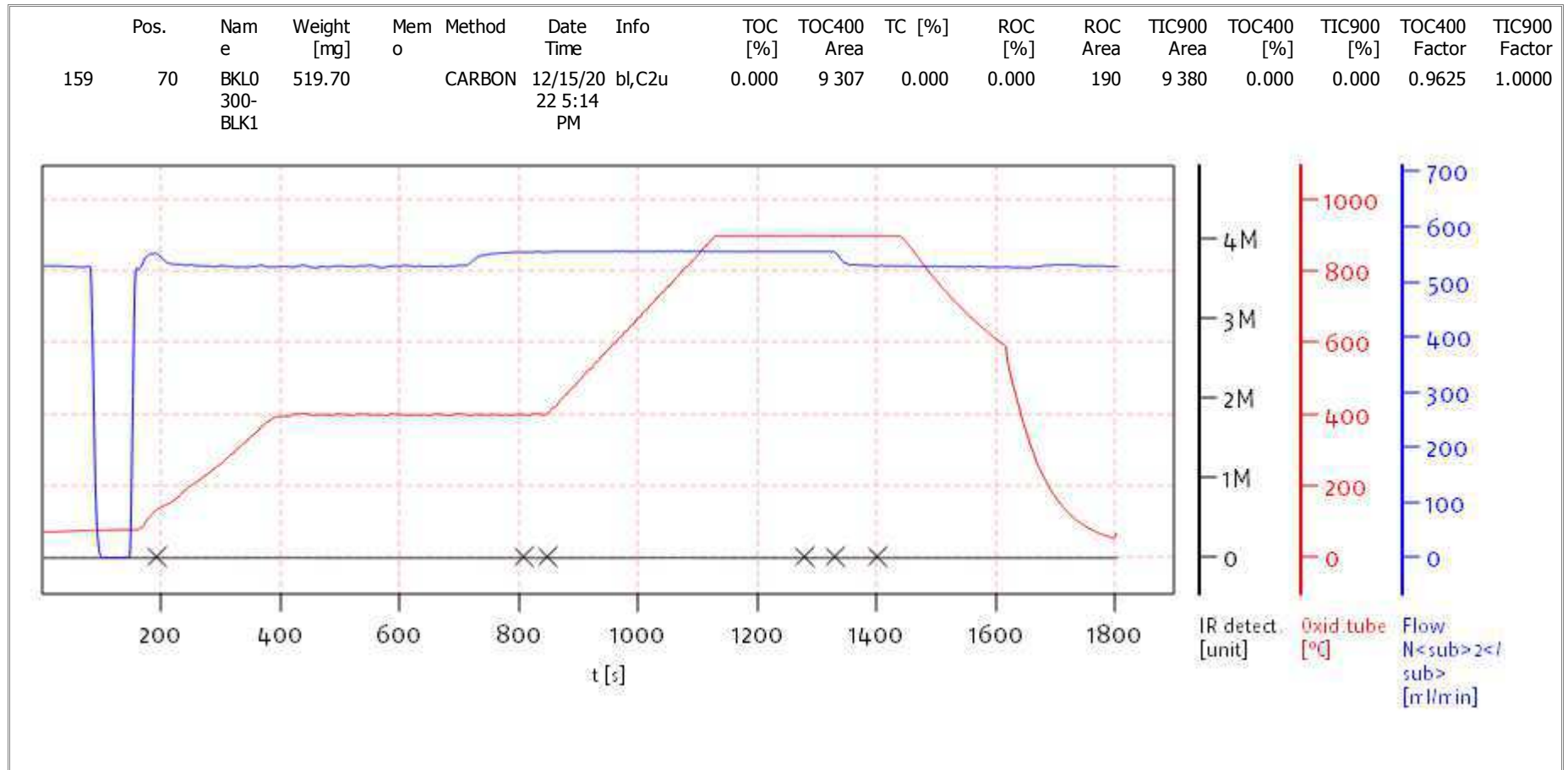
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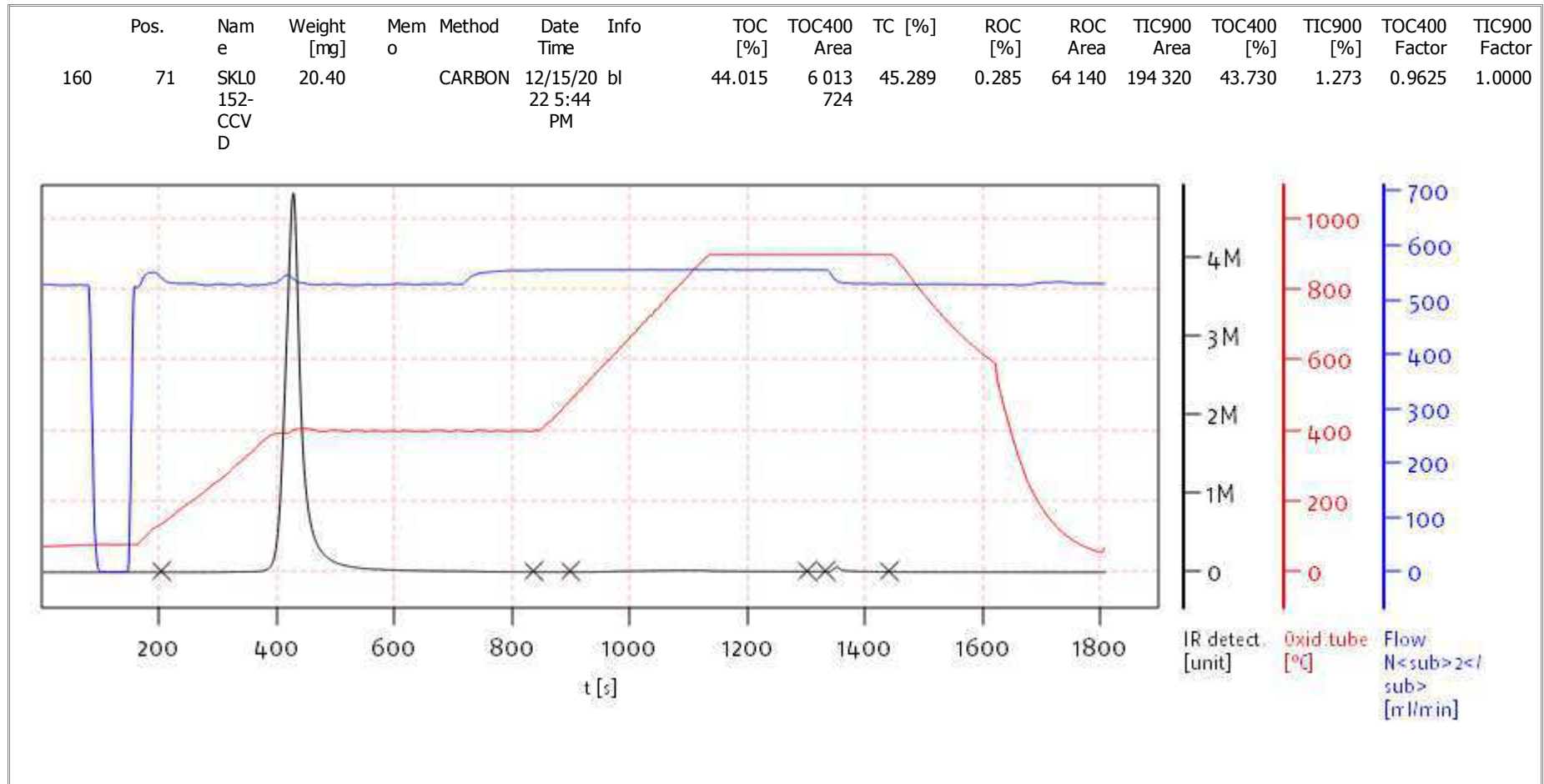
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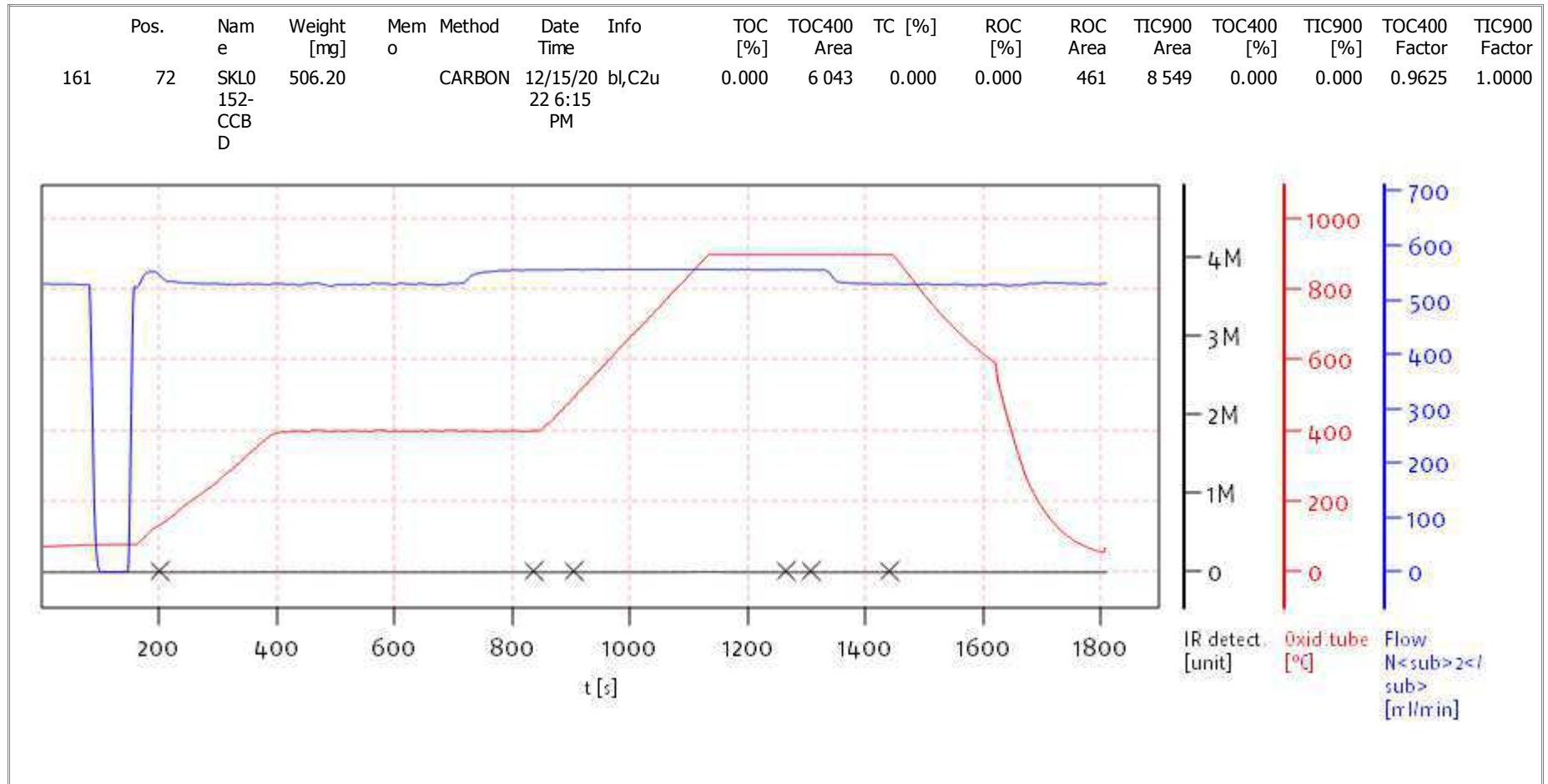
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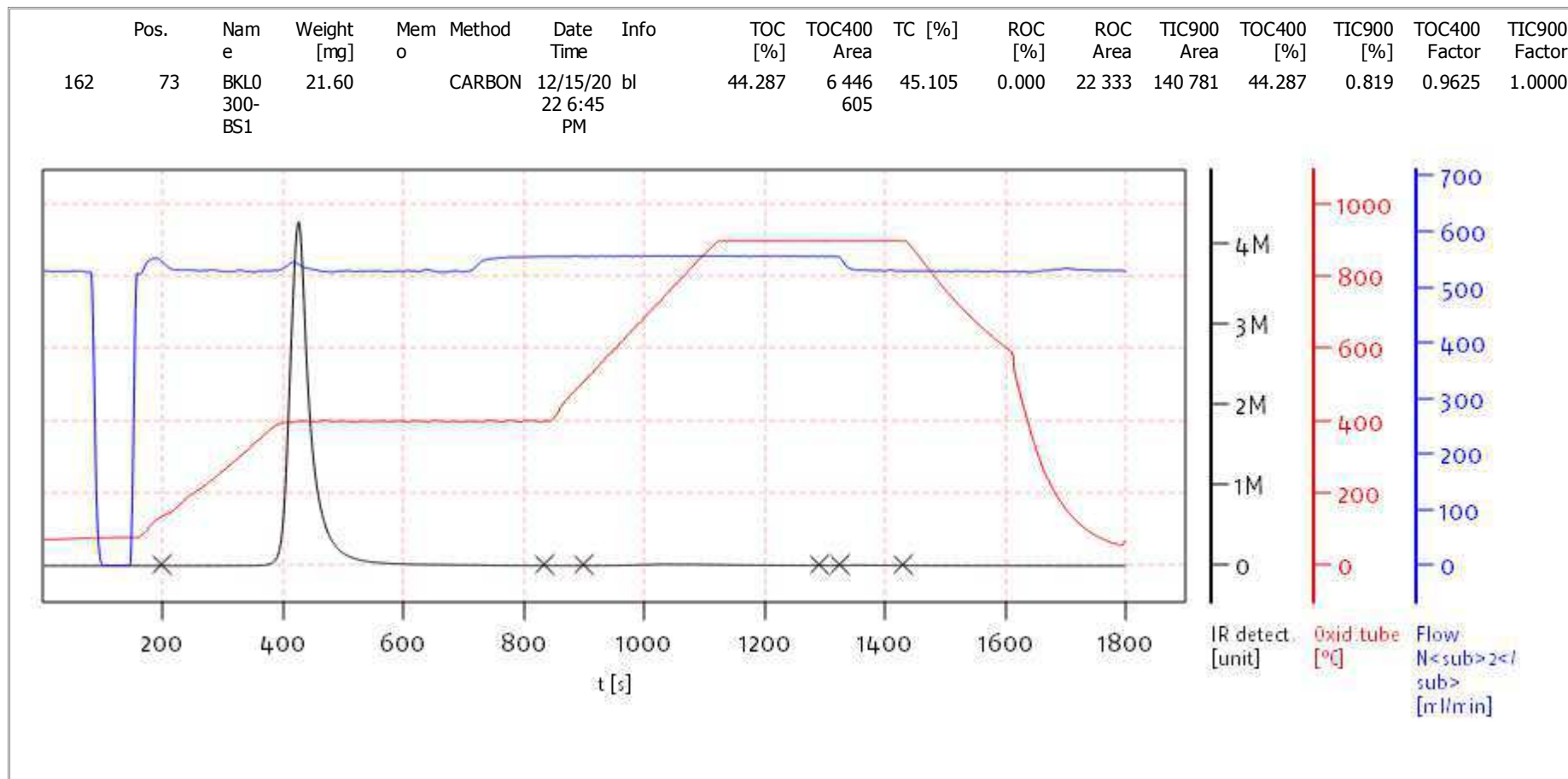
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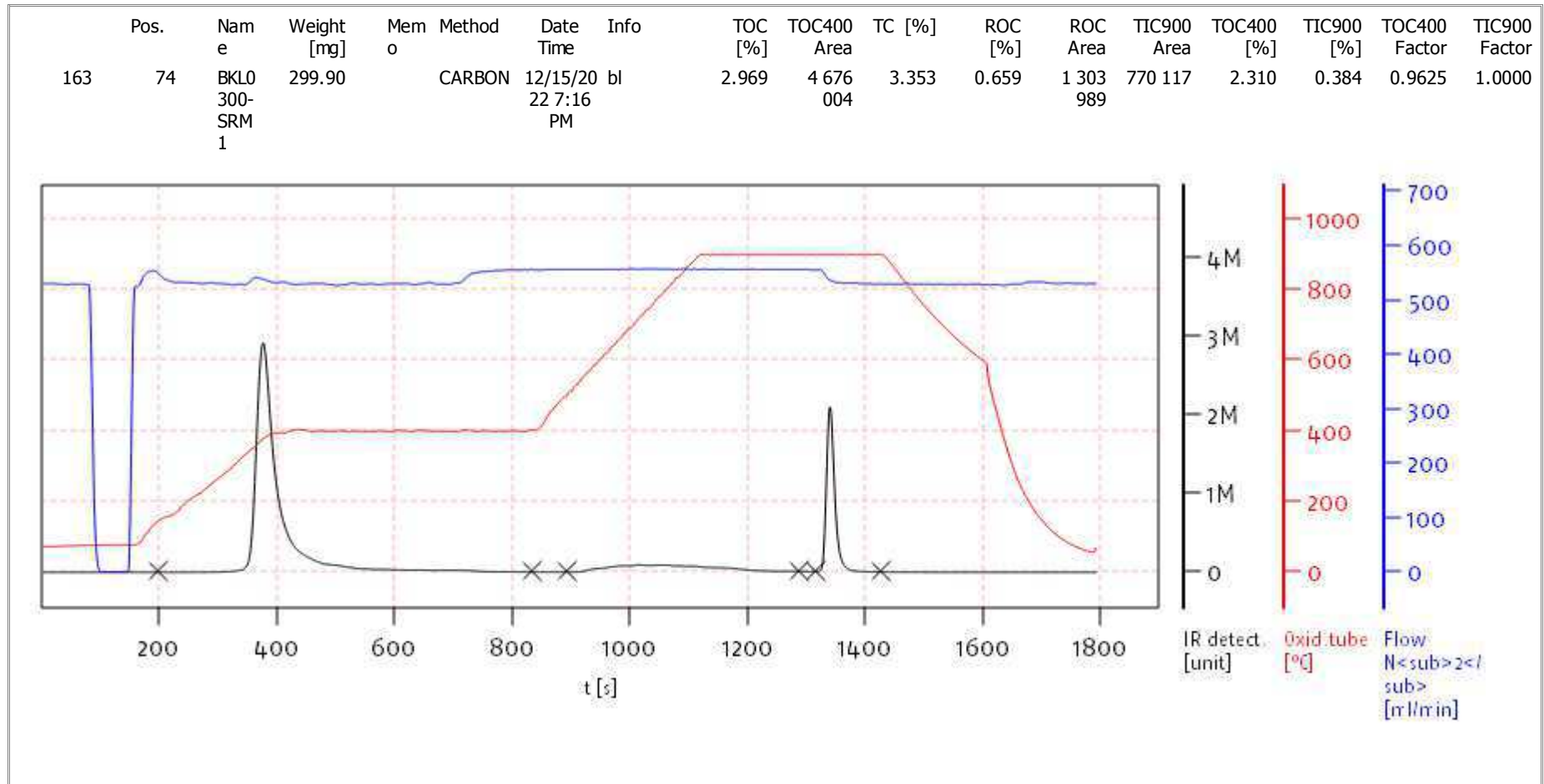
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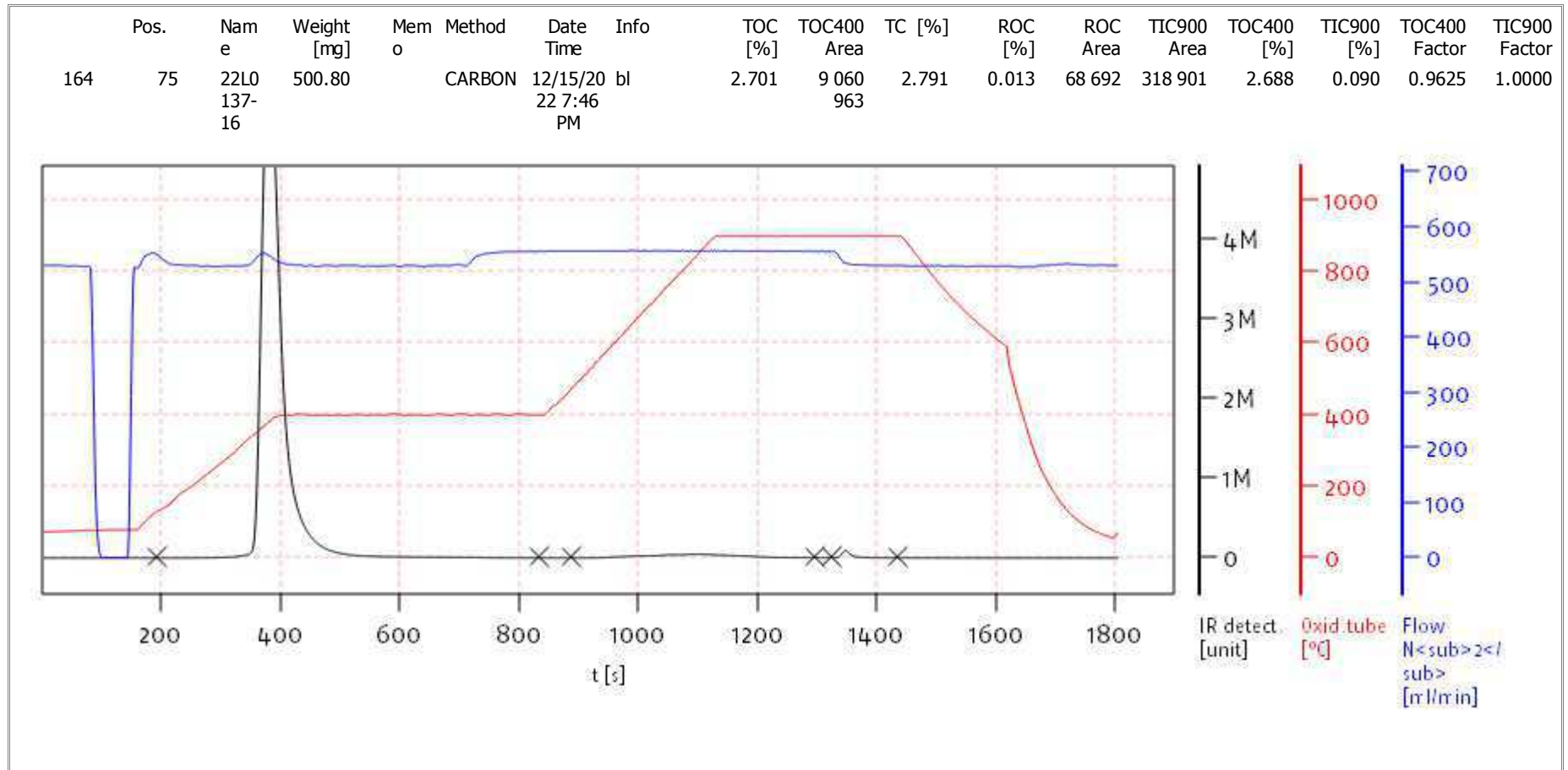
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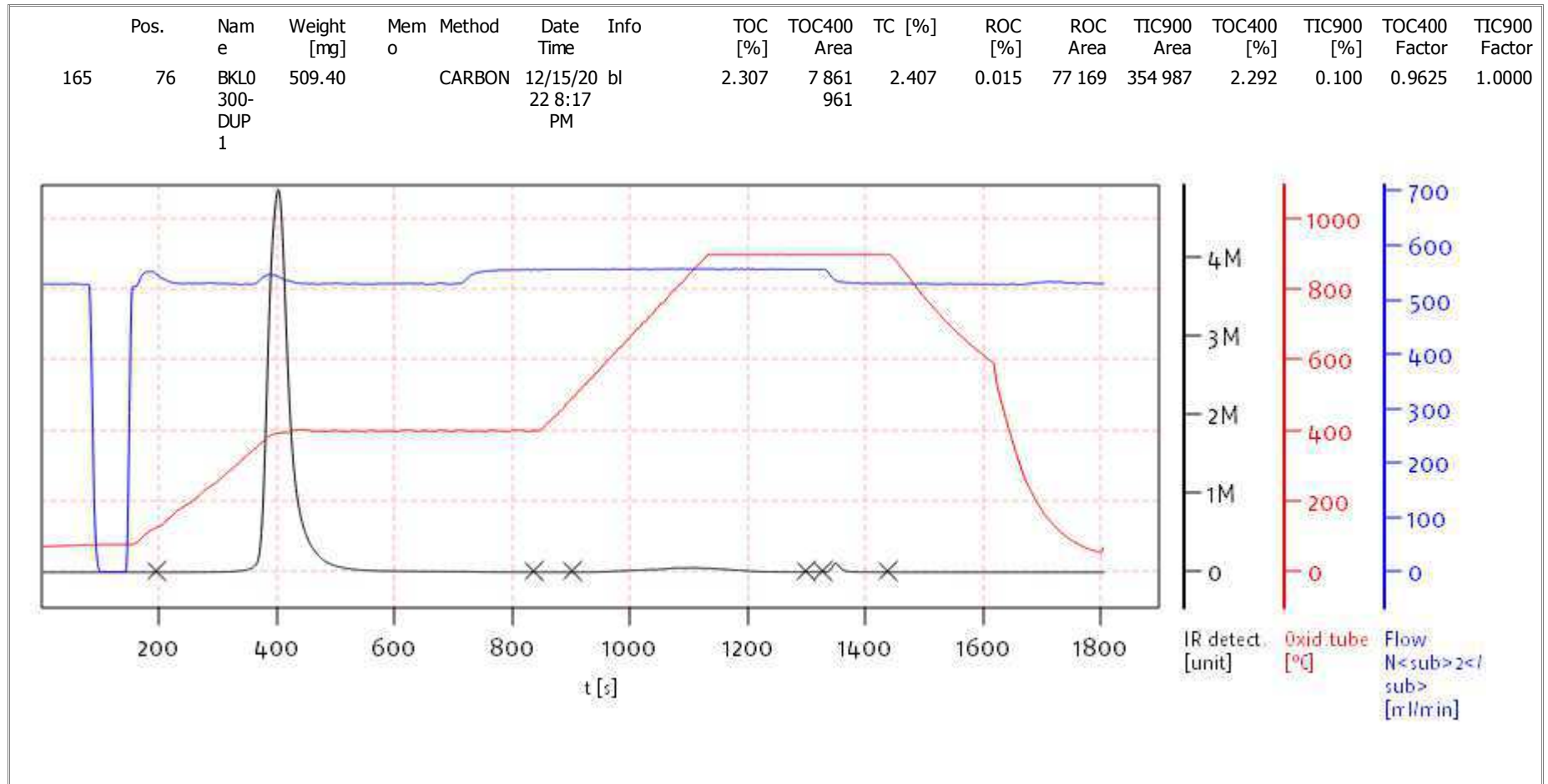
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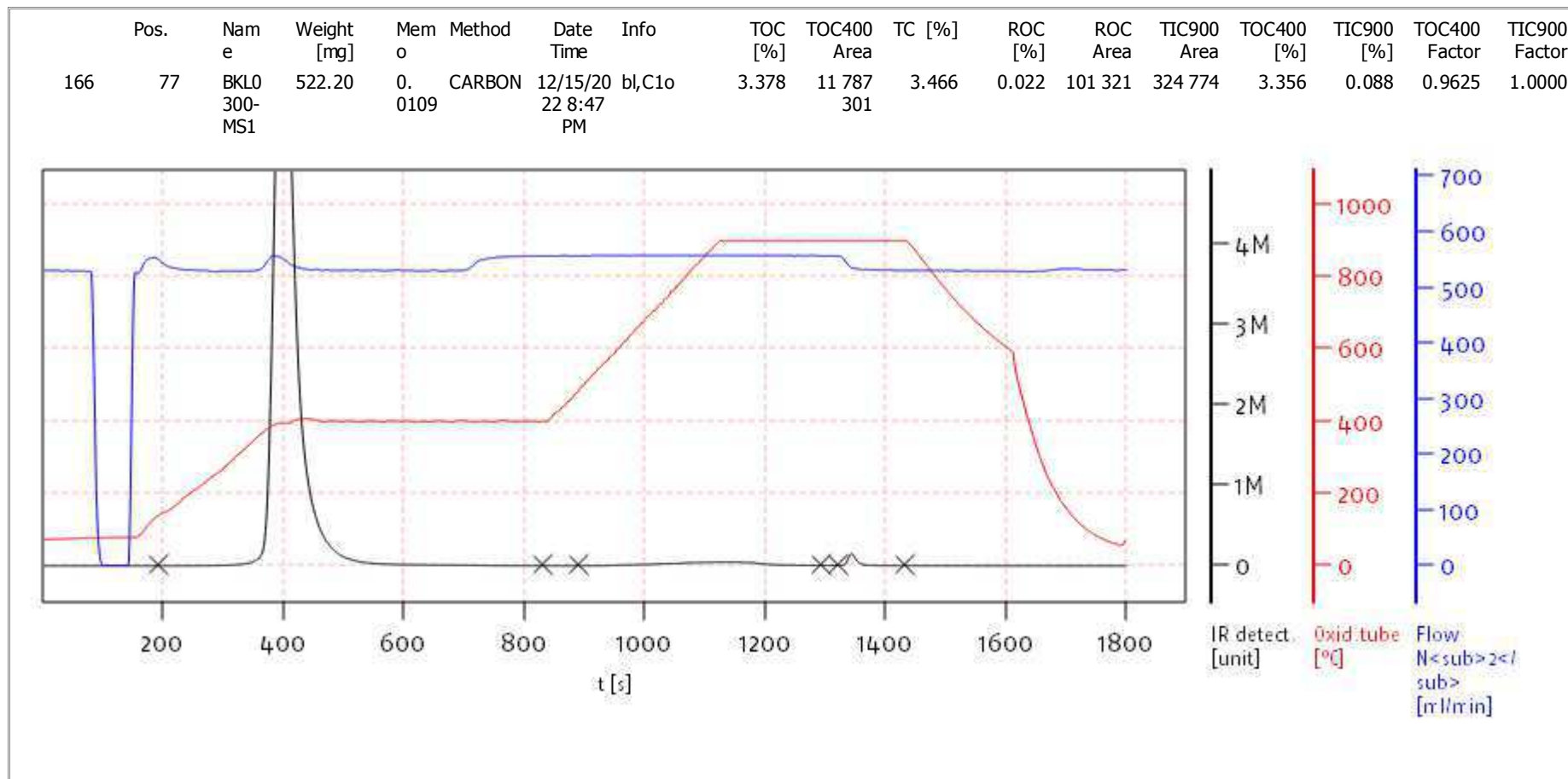
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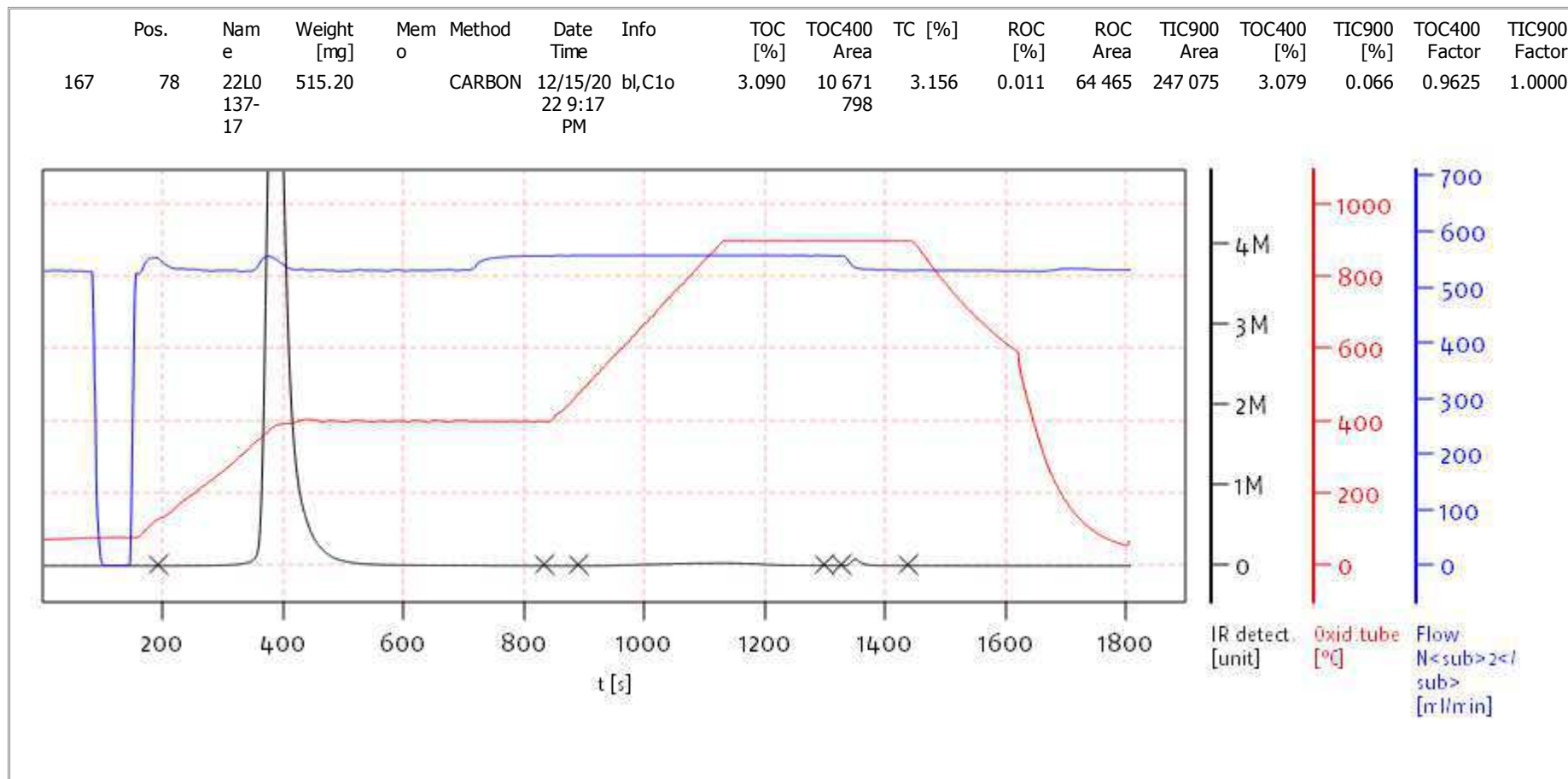
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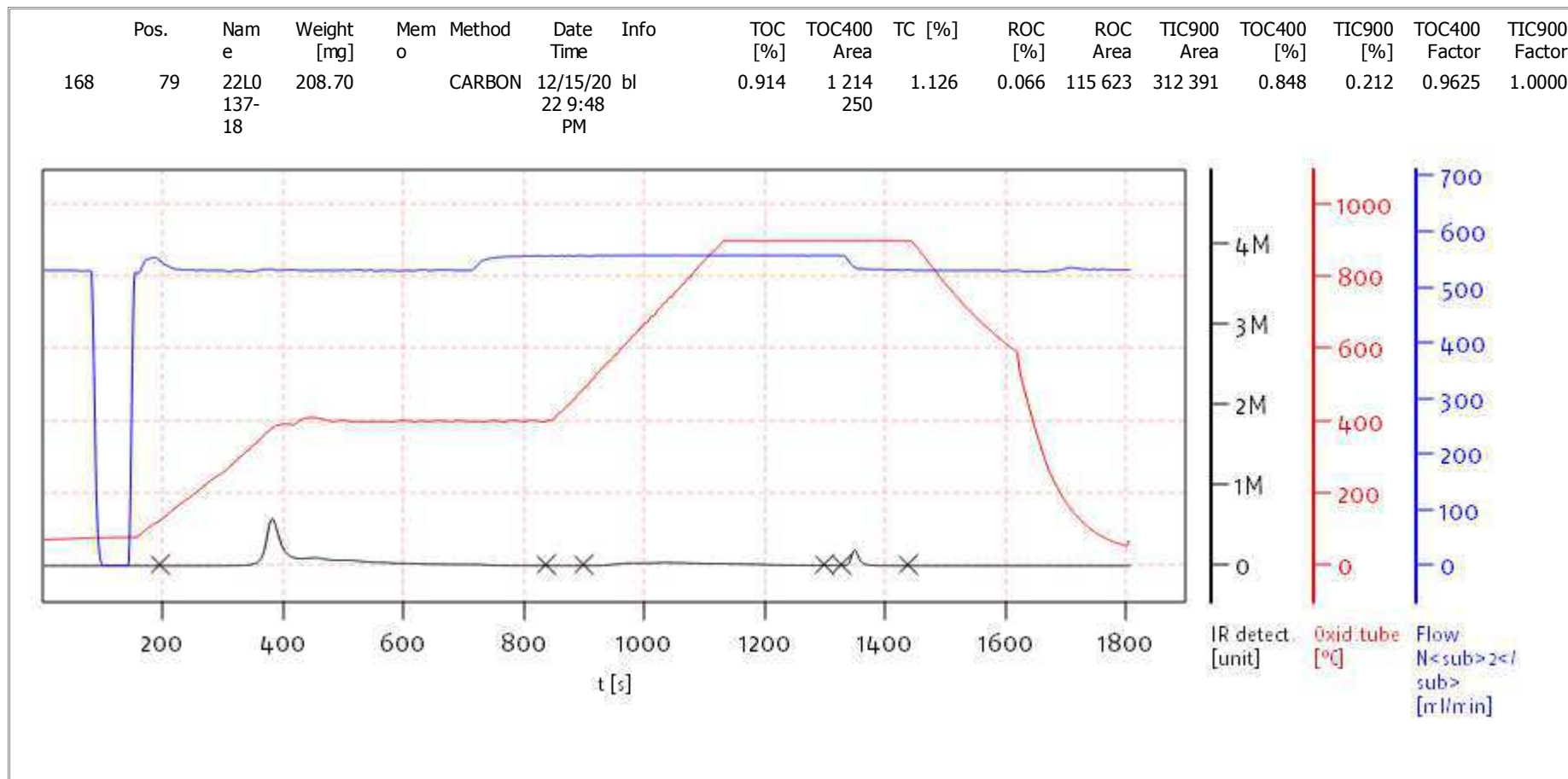
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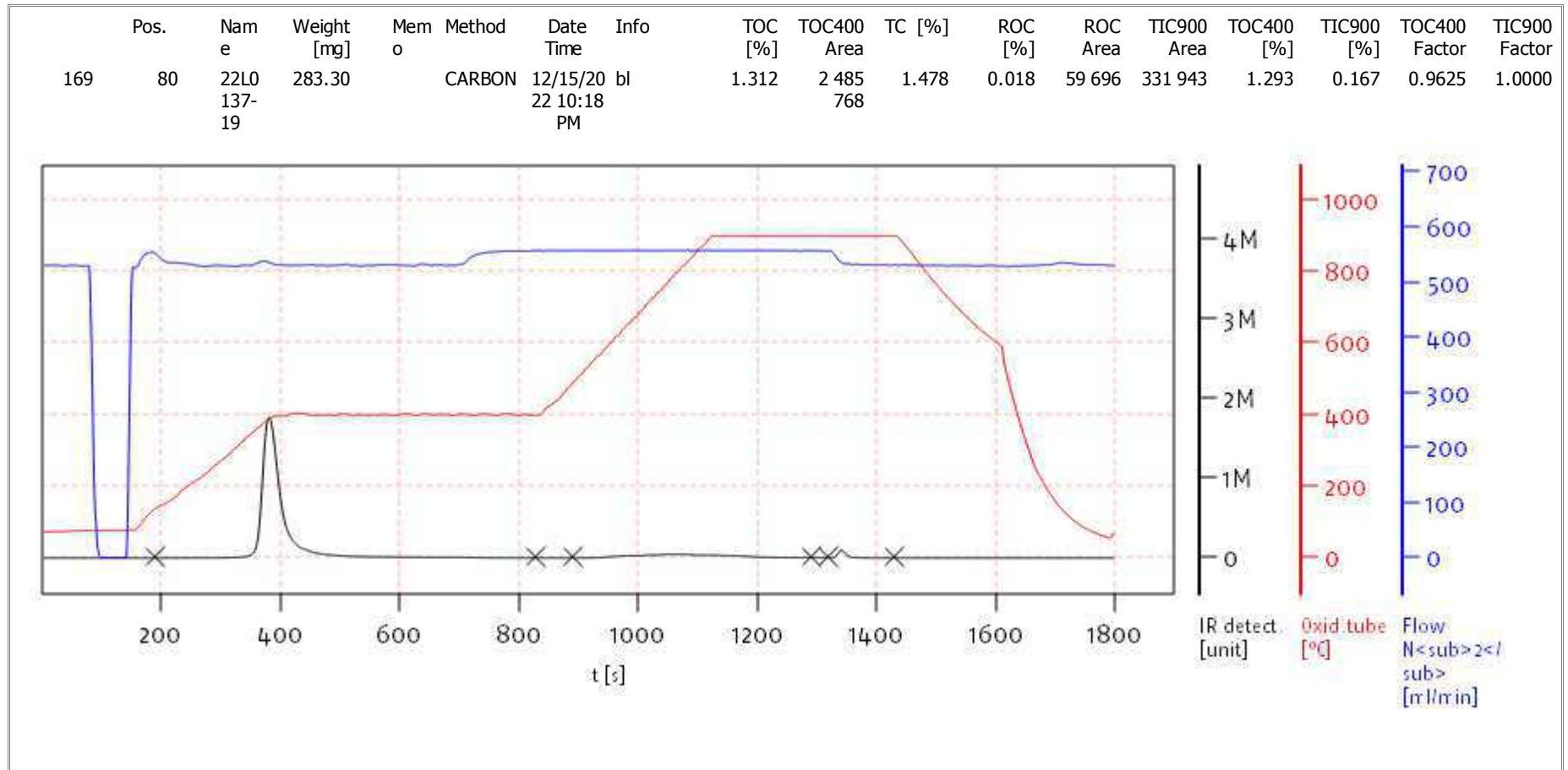
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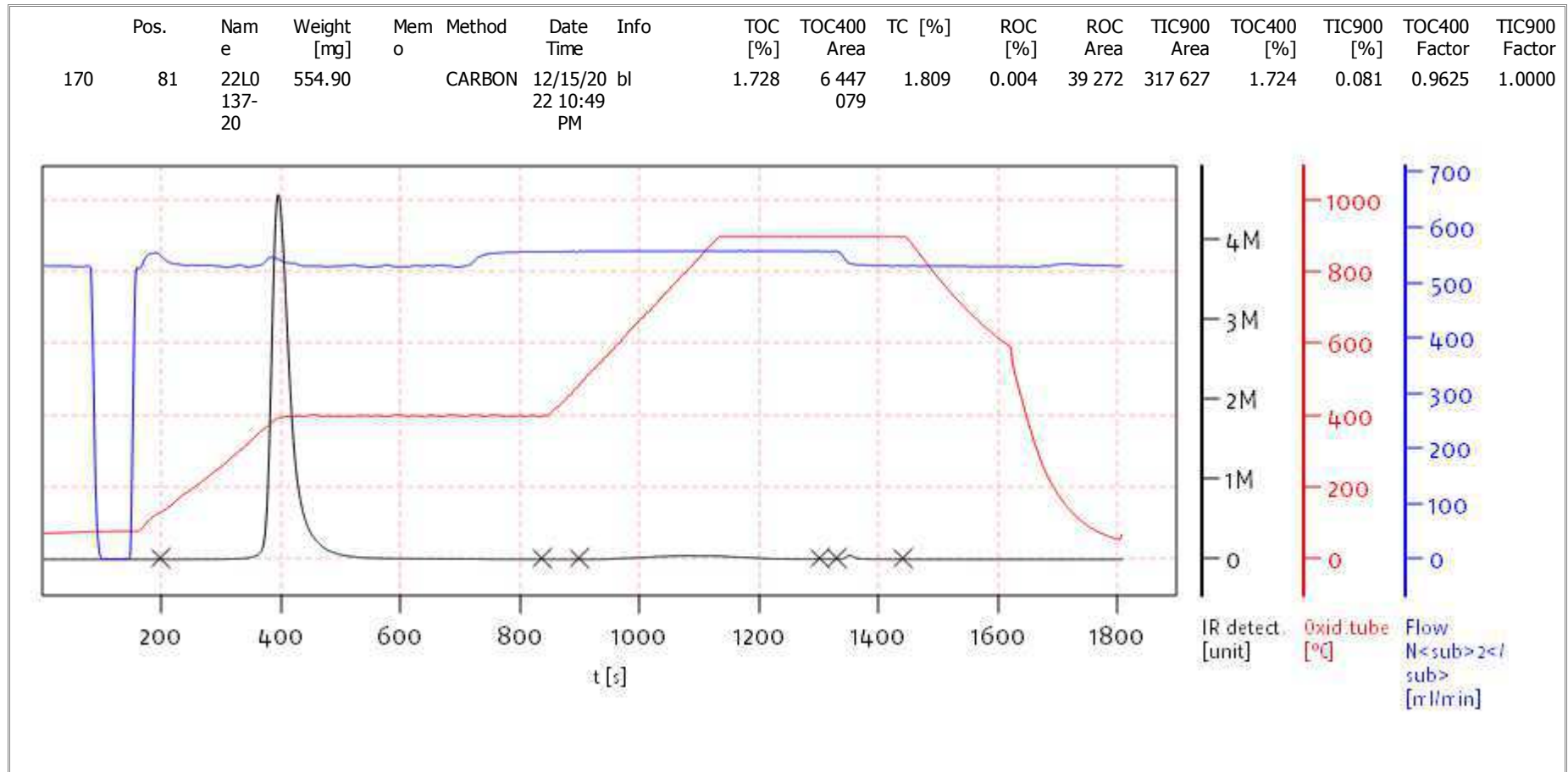
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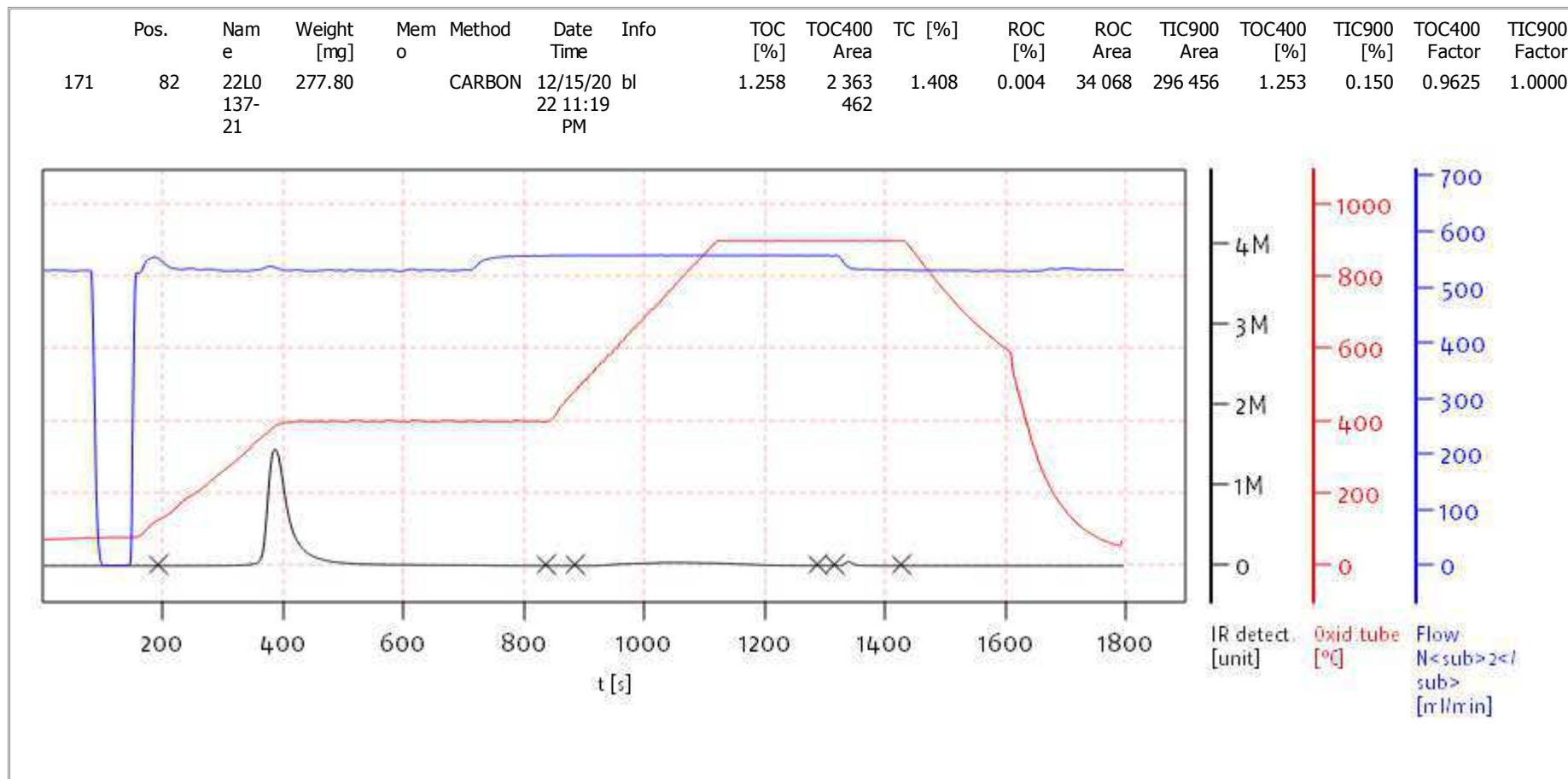
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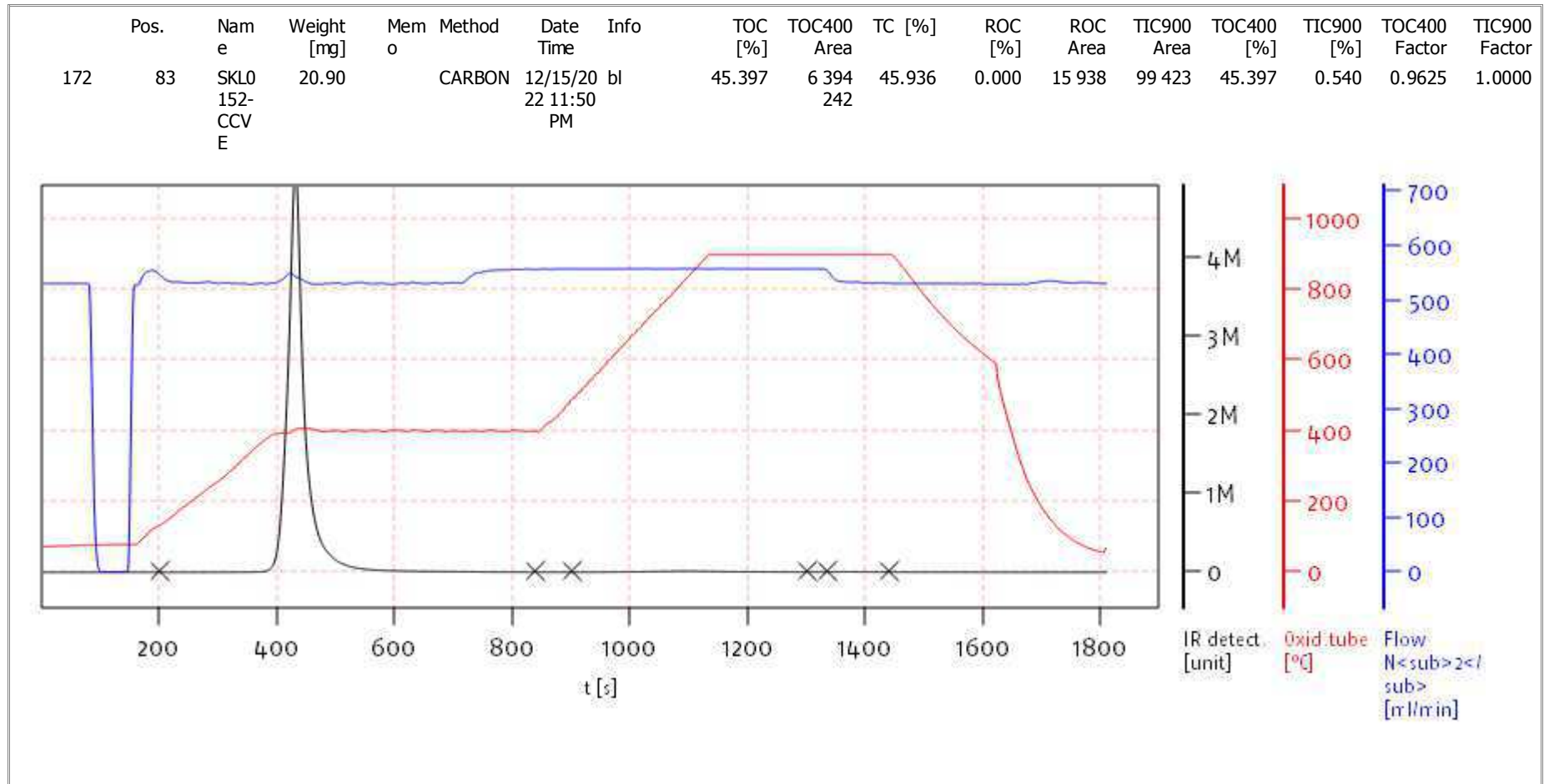
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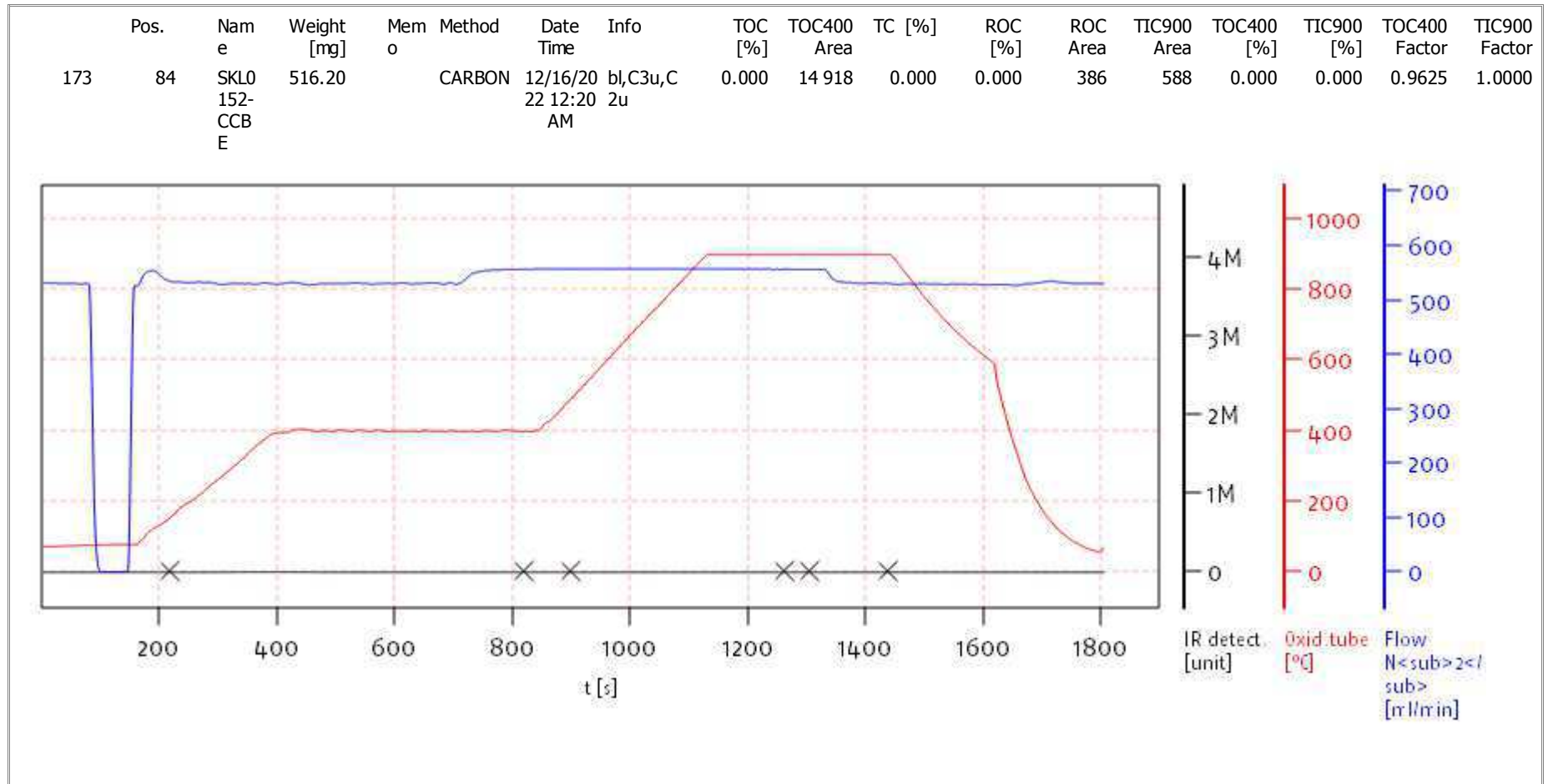
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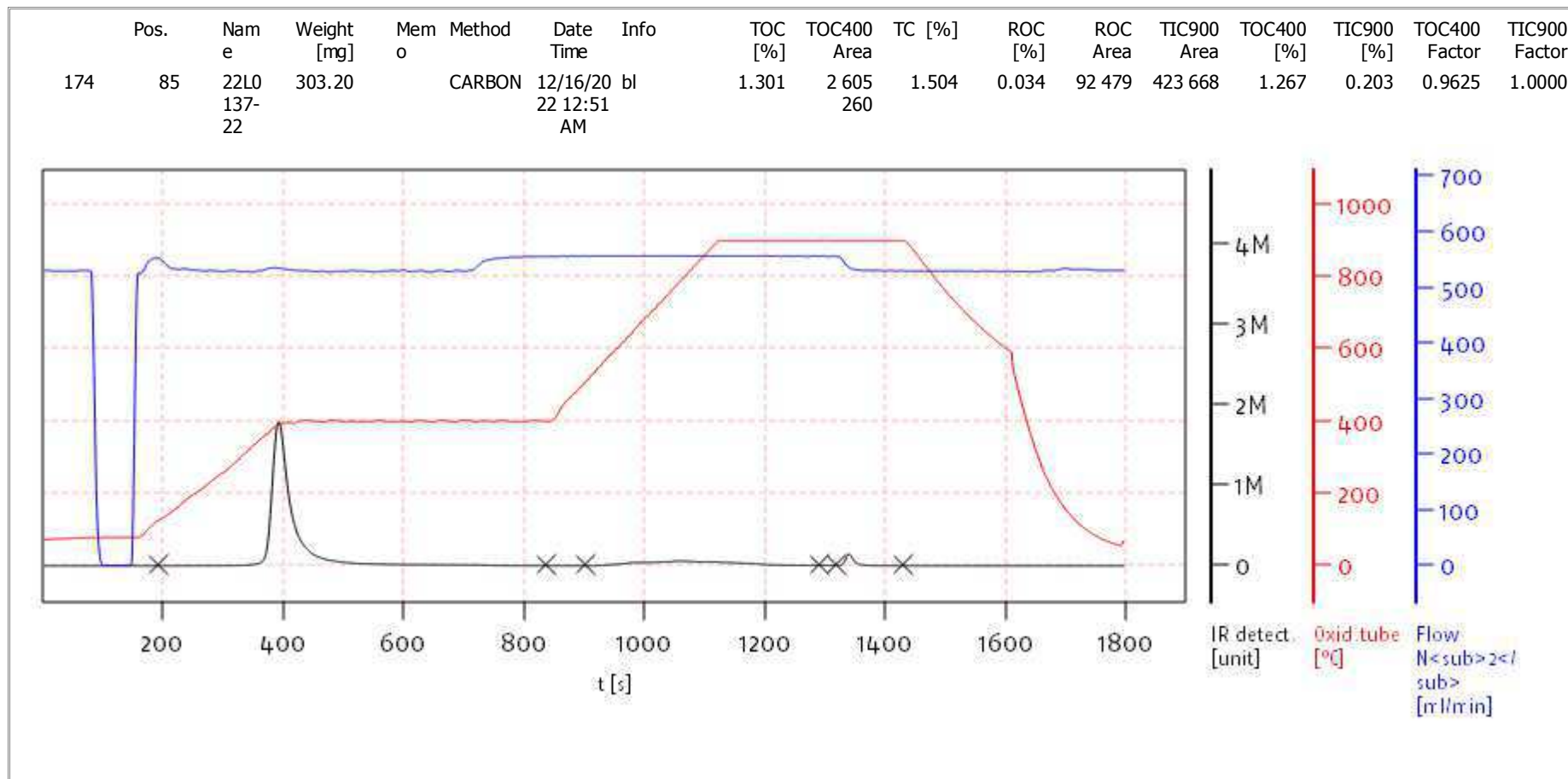
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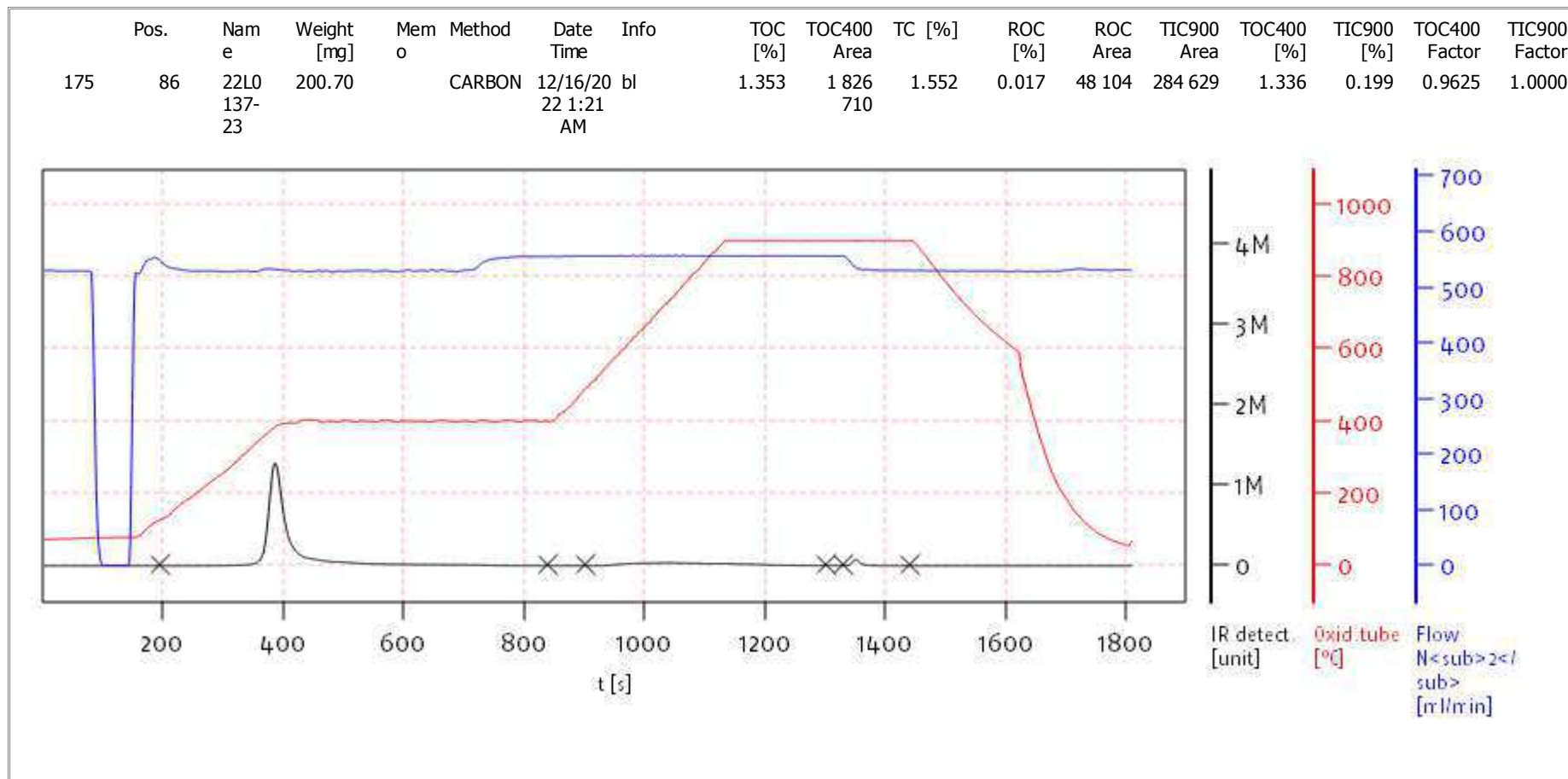
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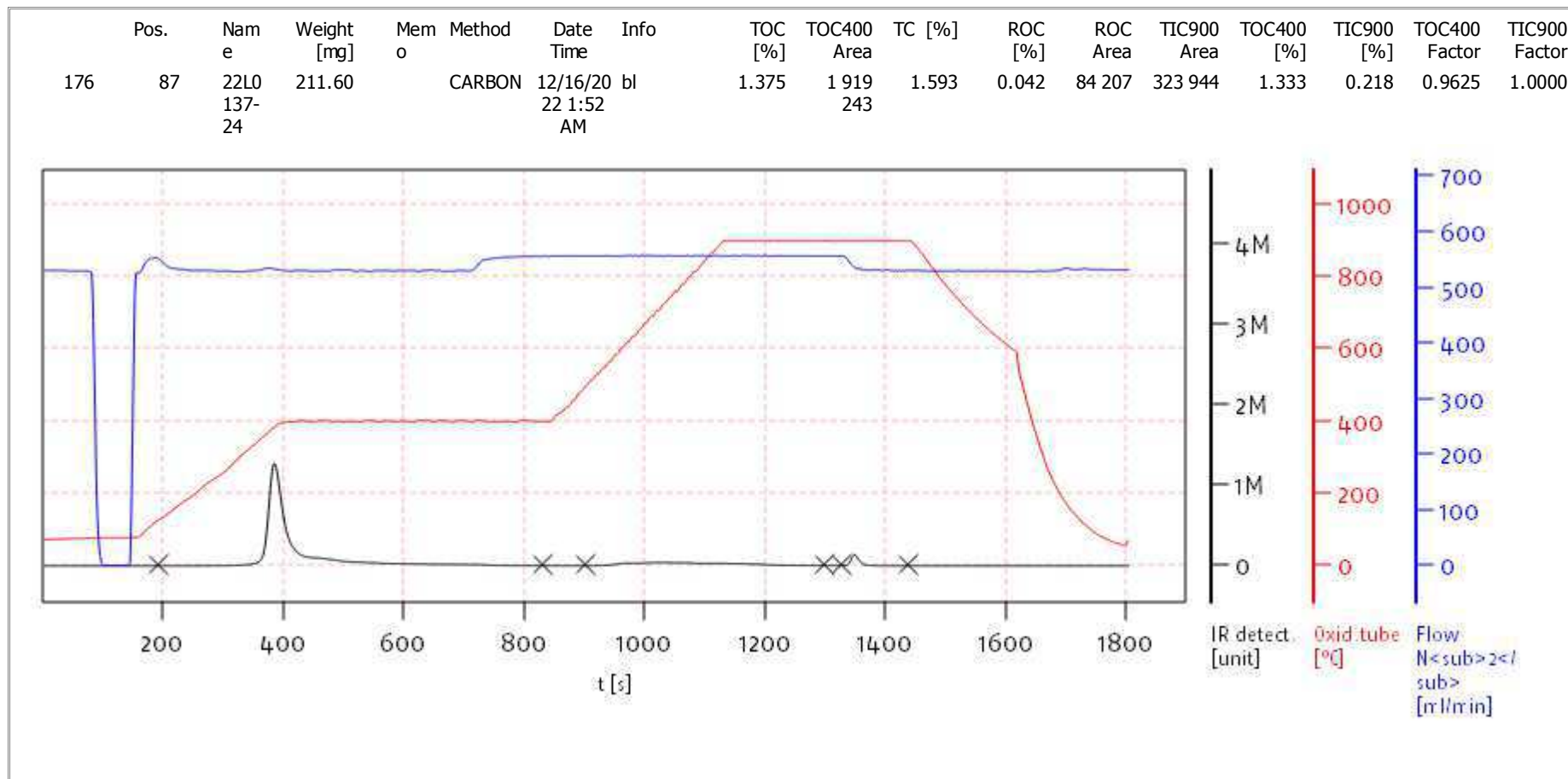
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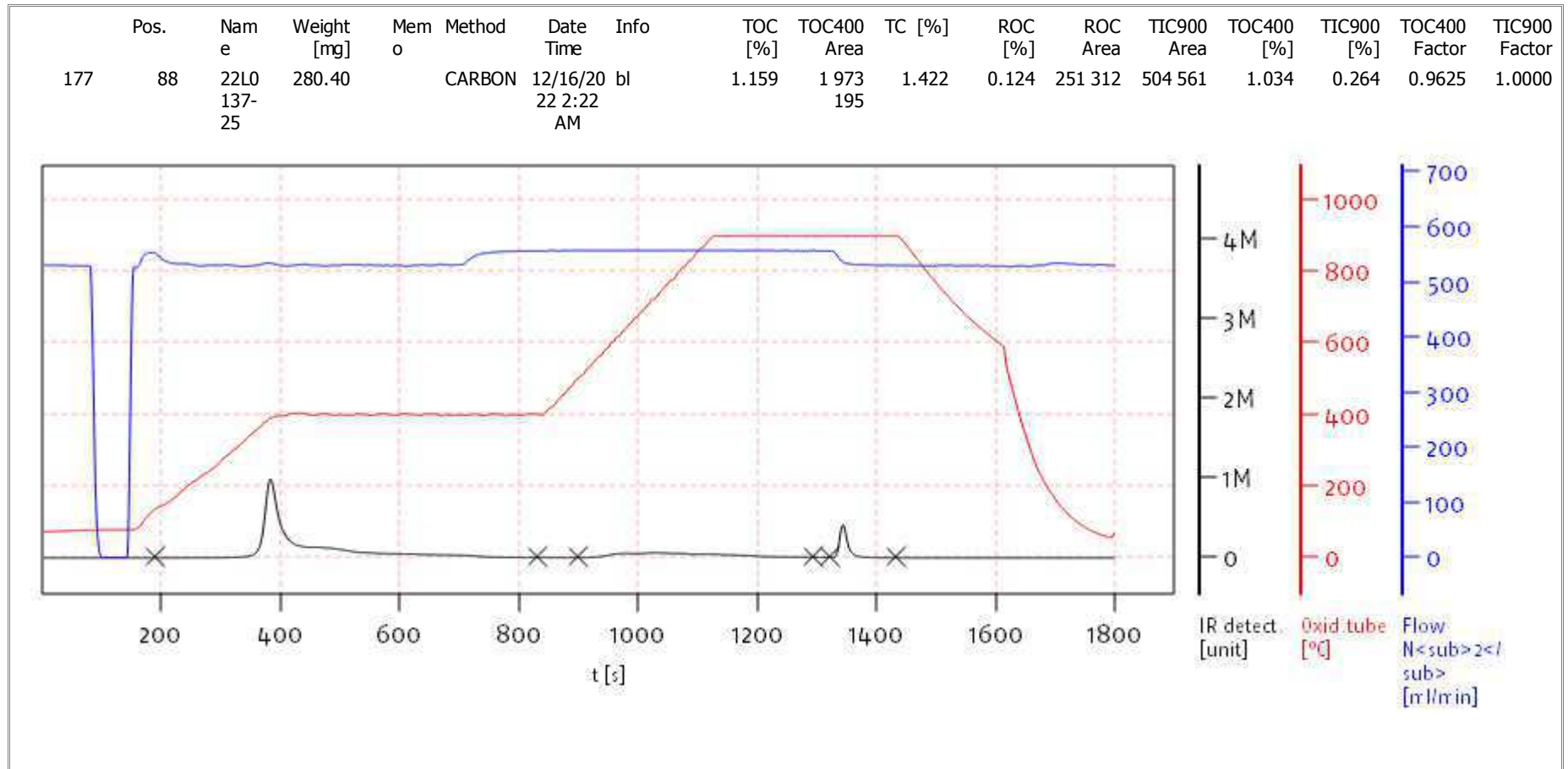
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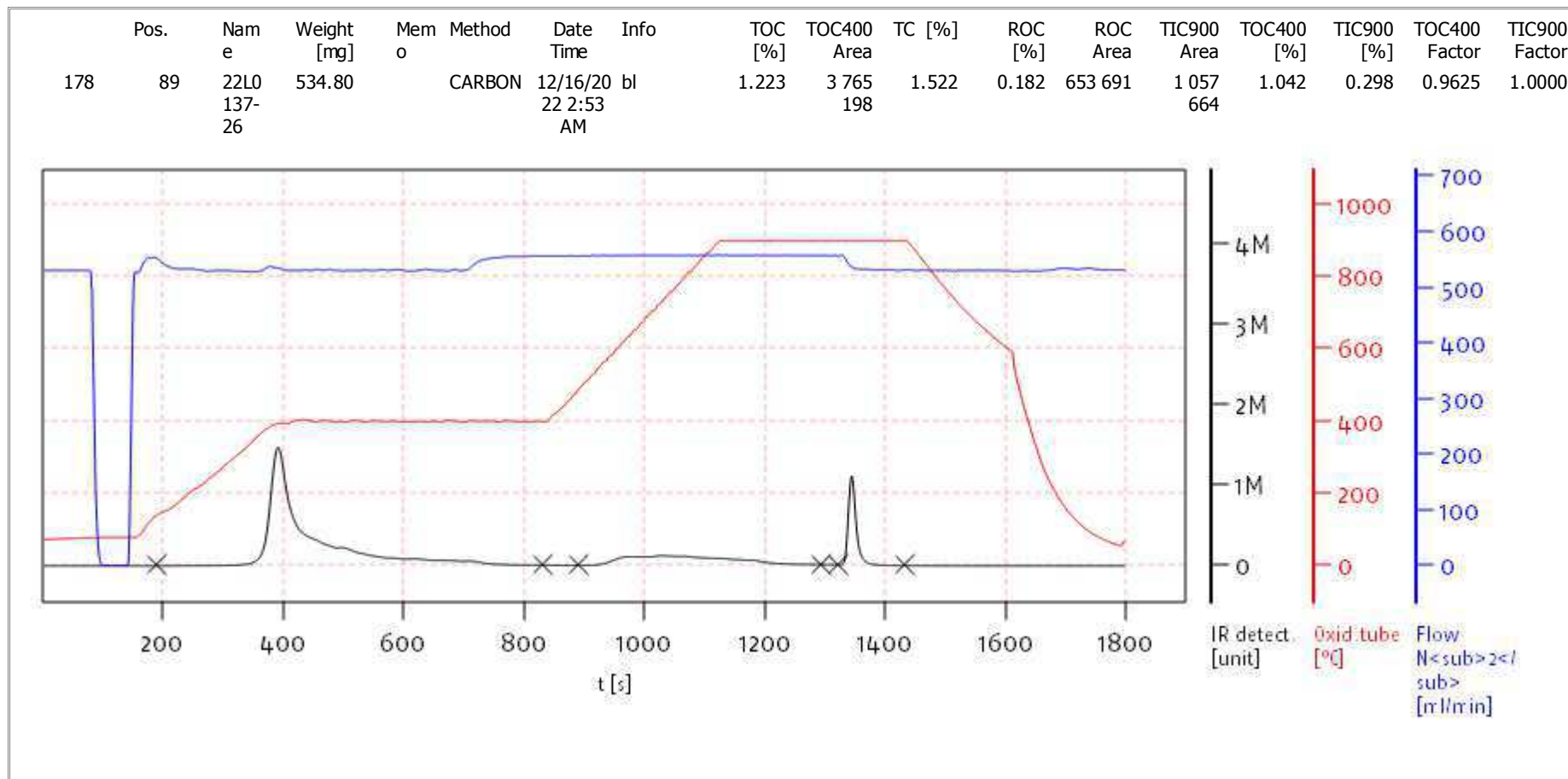
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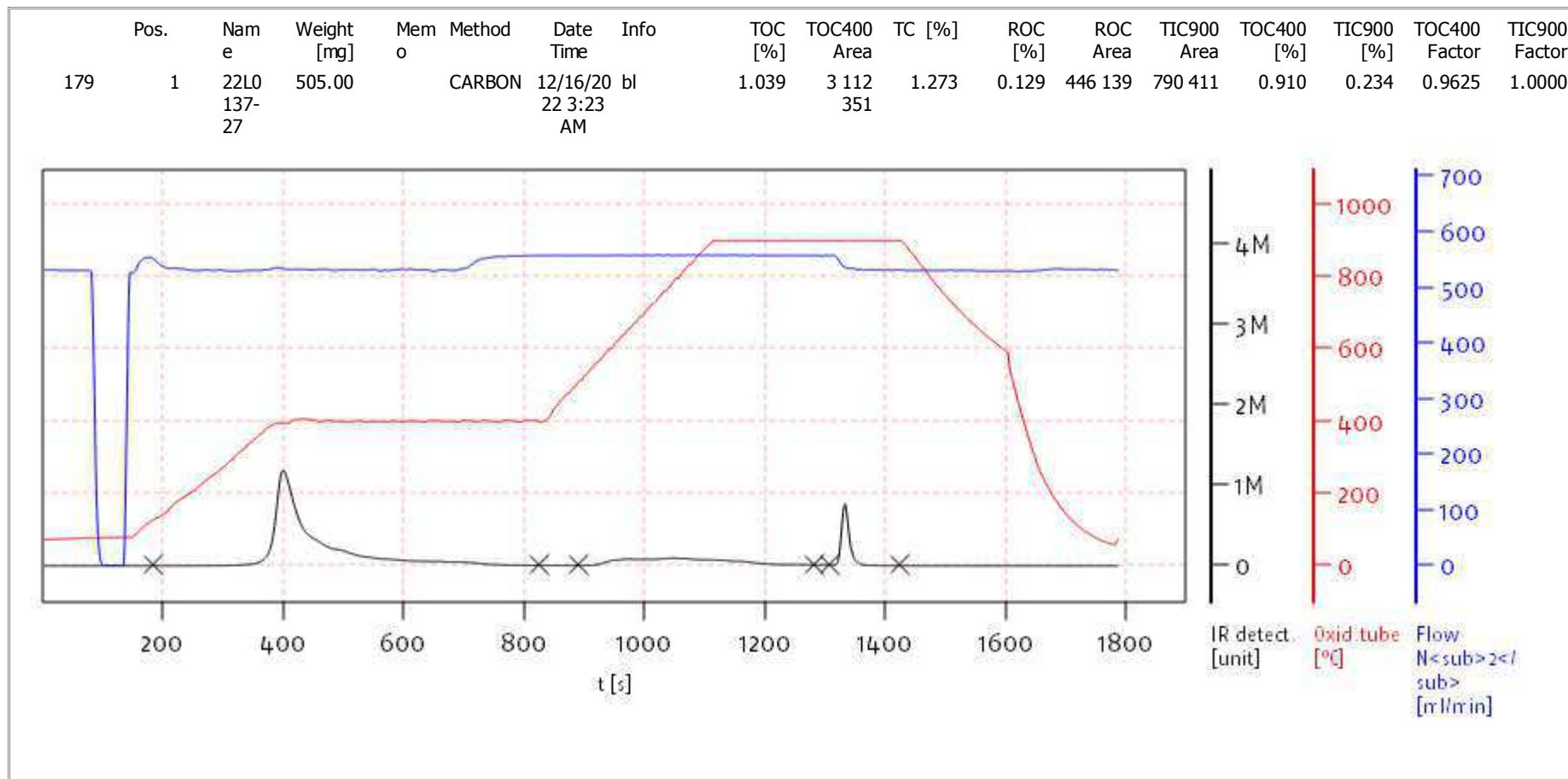
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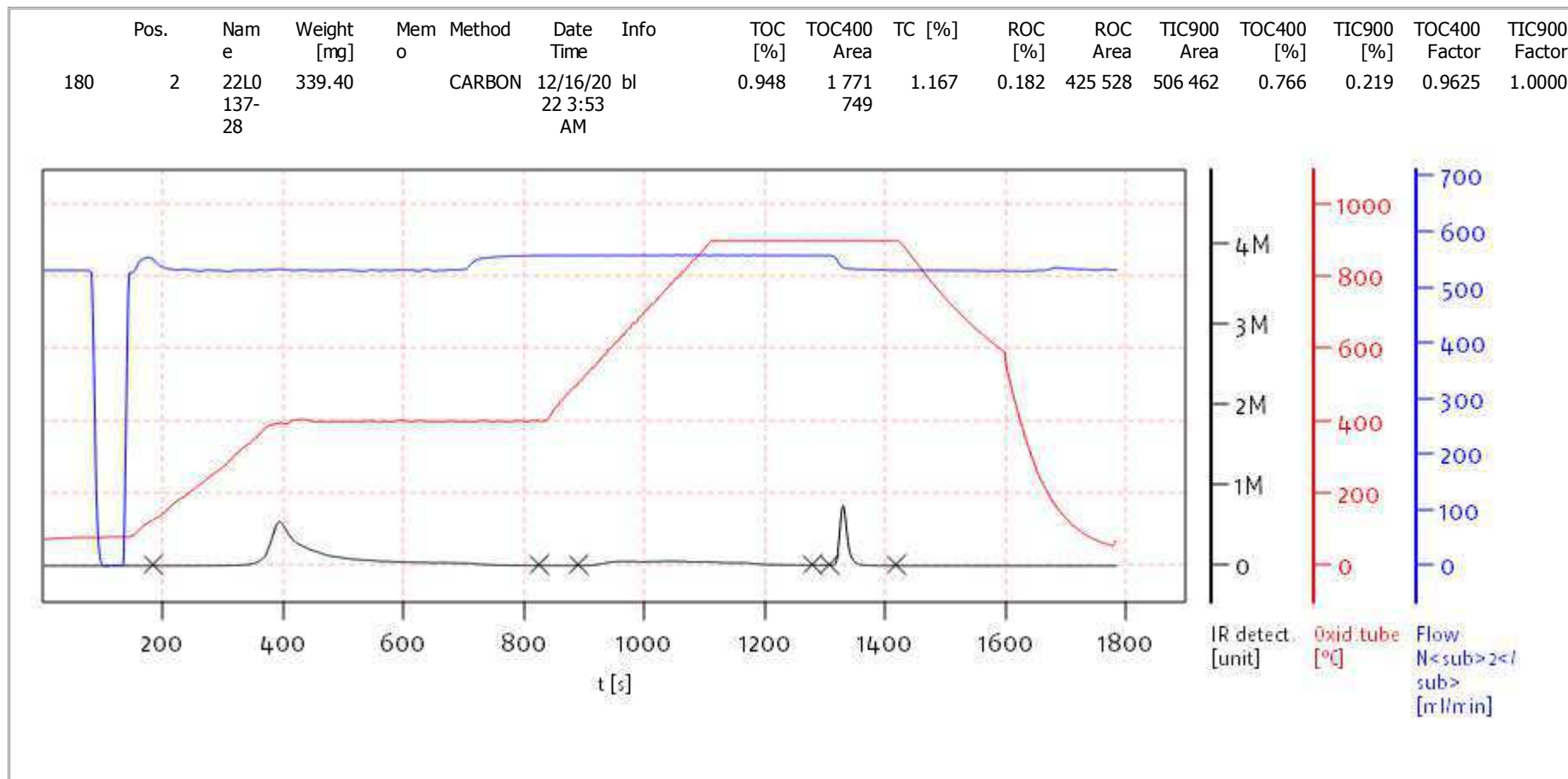
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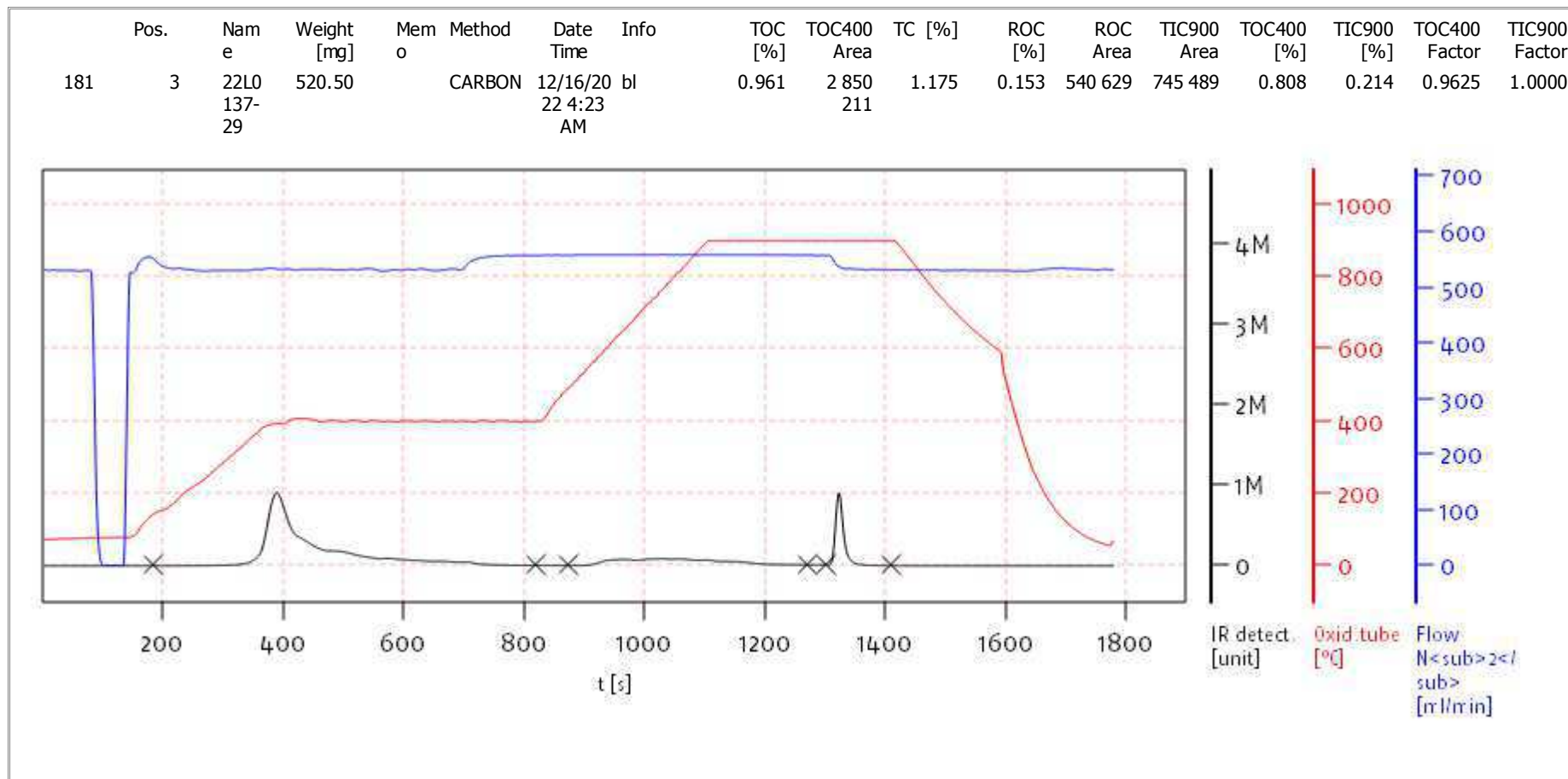
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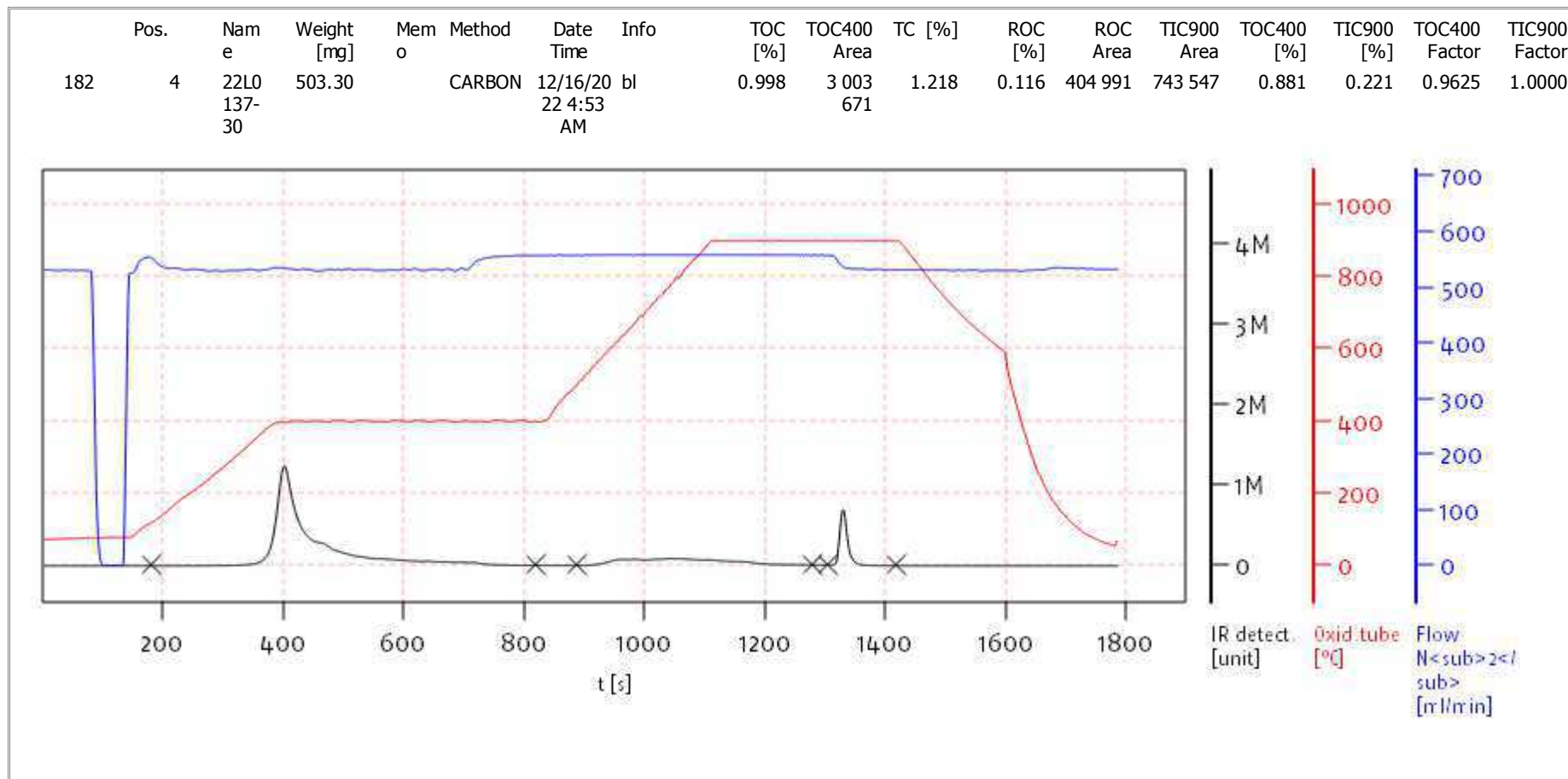
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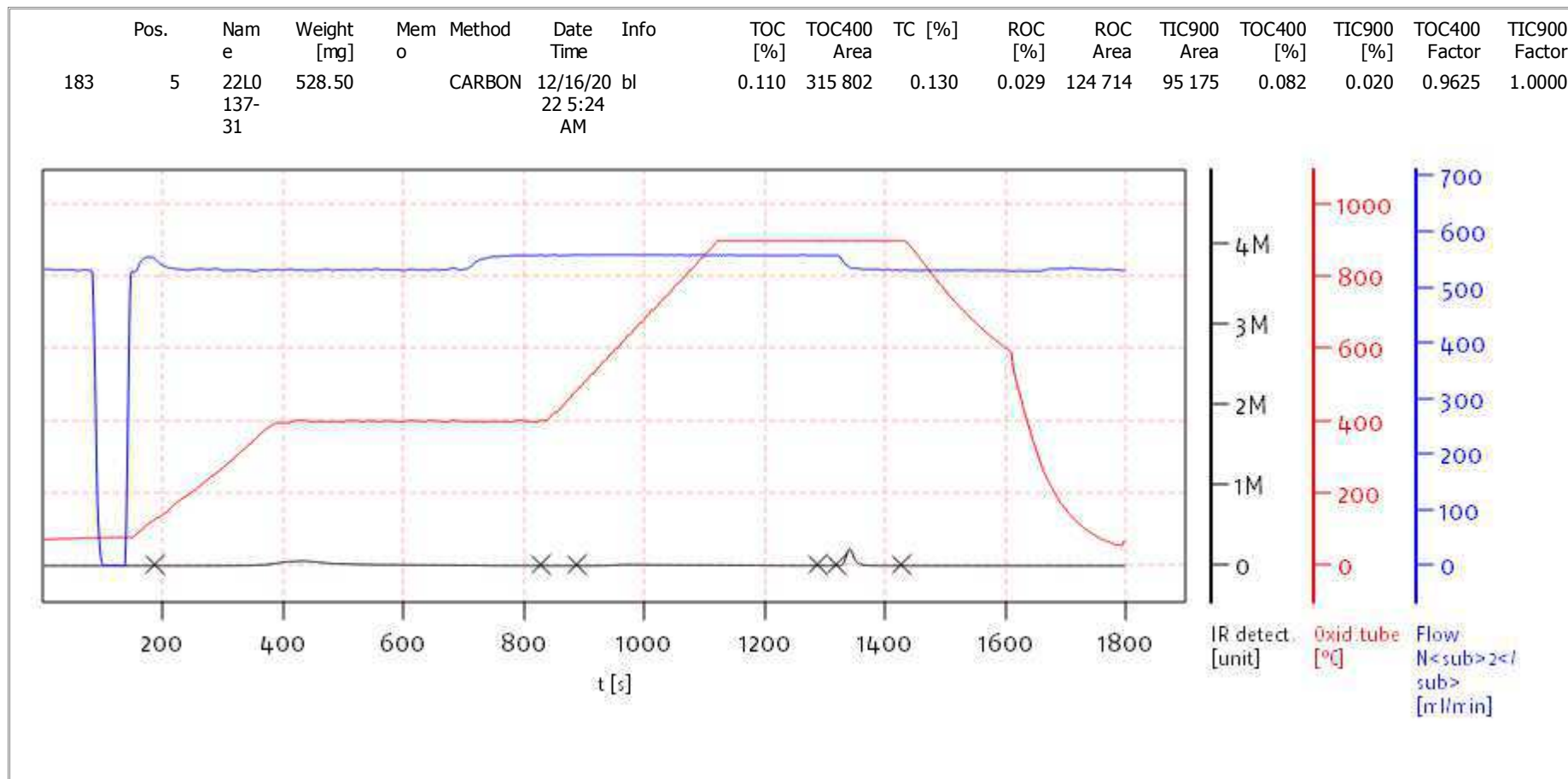
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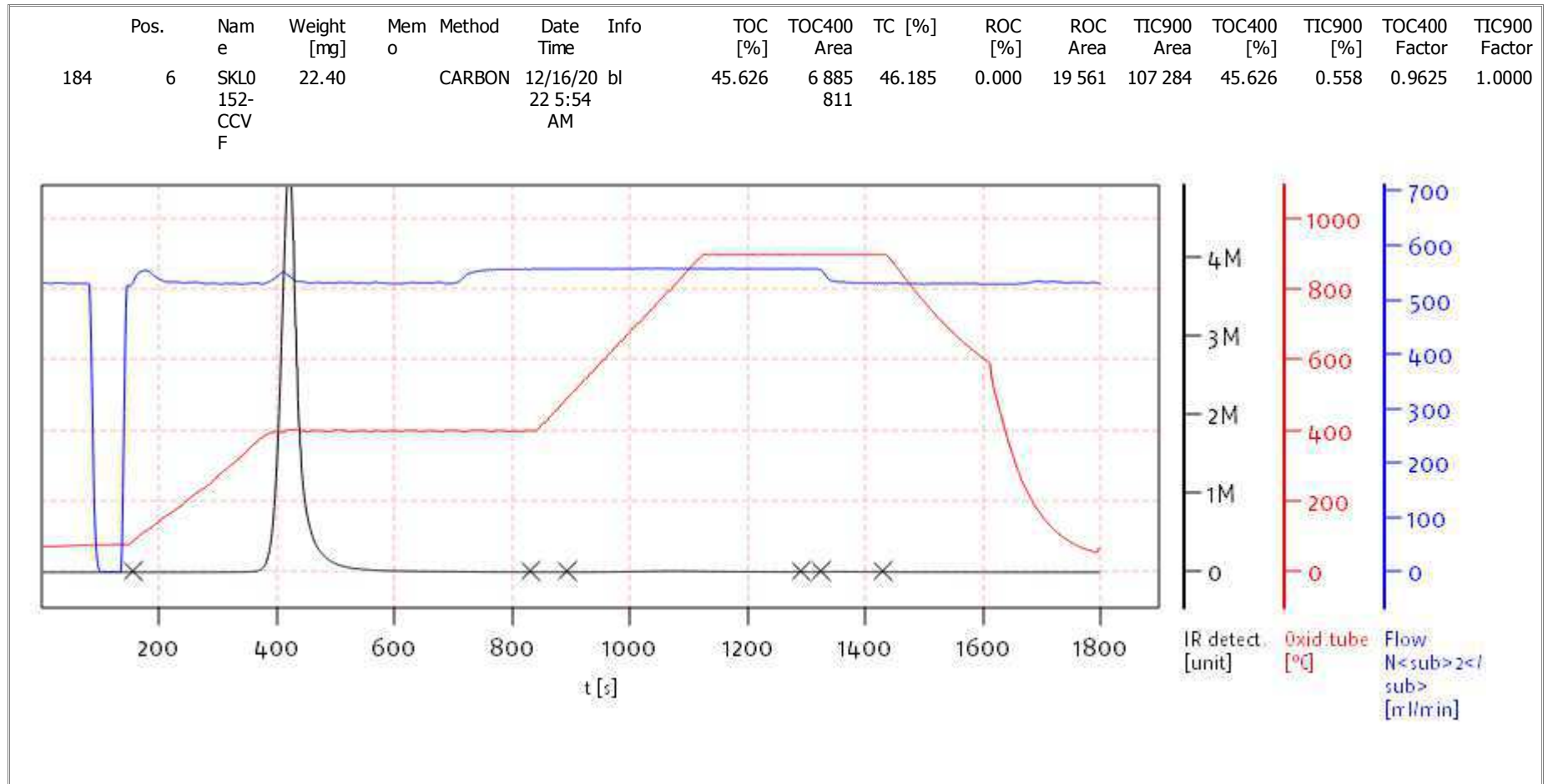
Date: Fri Dec 16 09:43:23 2022



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

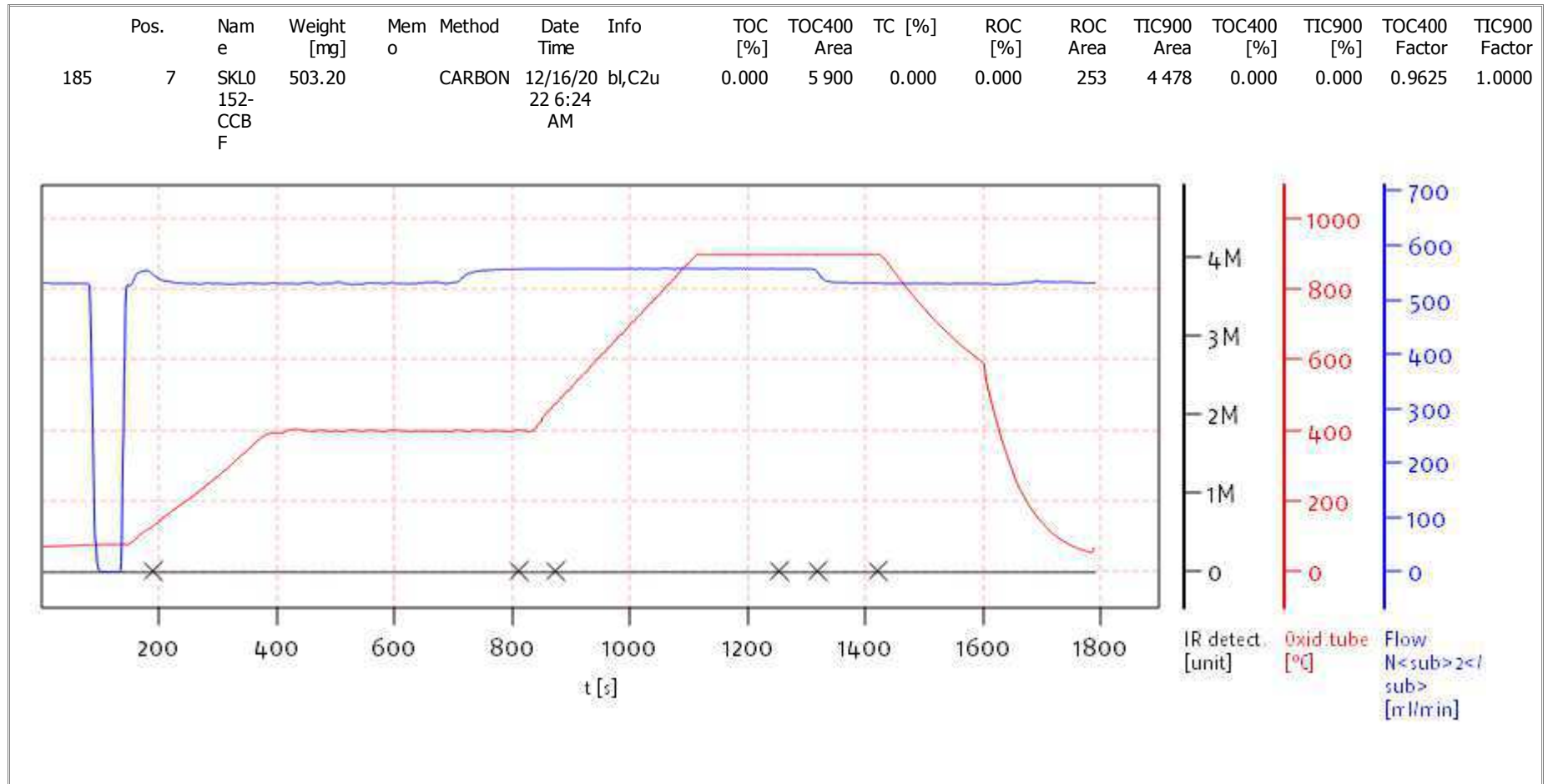
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solITOC V2.0.2 (31015f9) 2018-11-19
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 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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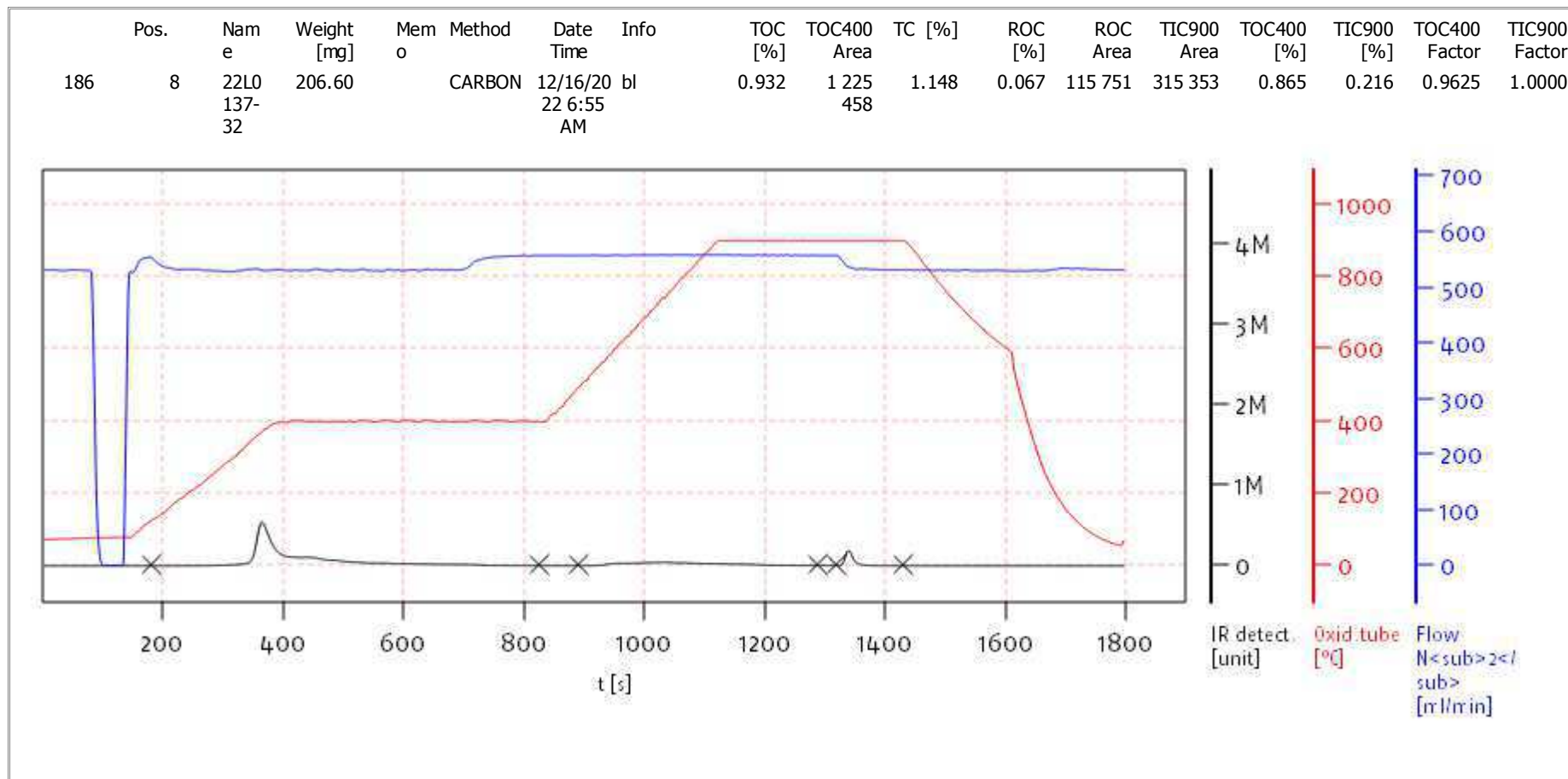
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solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC

Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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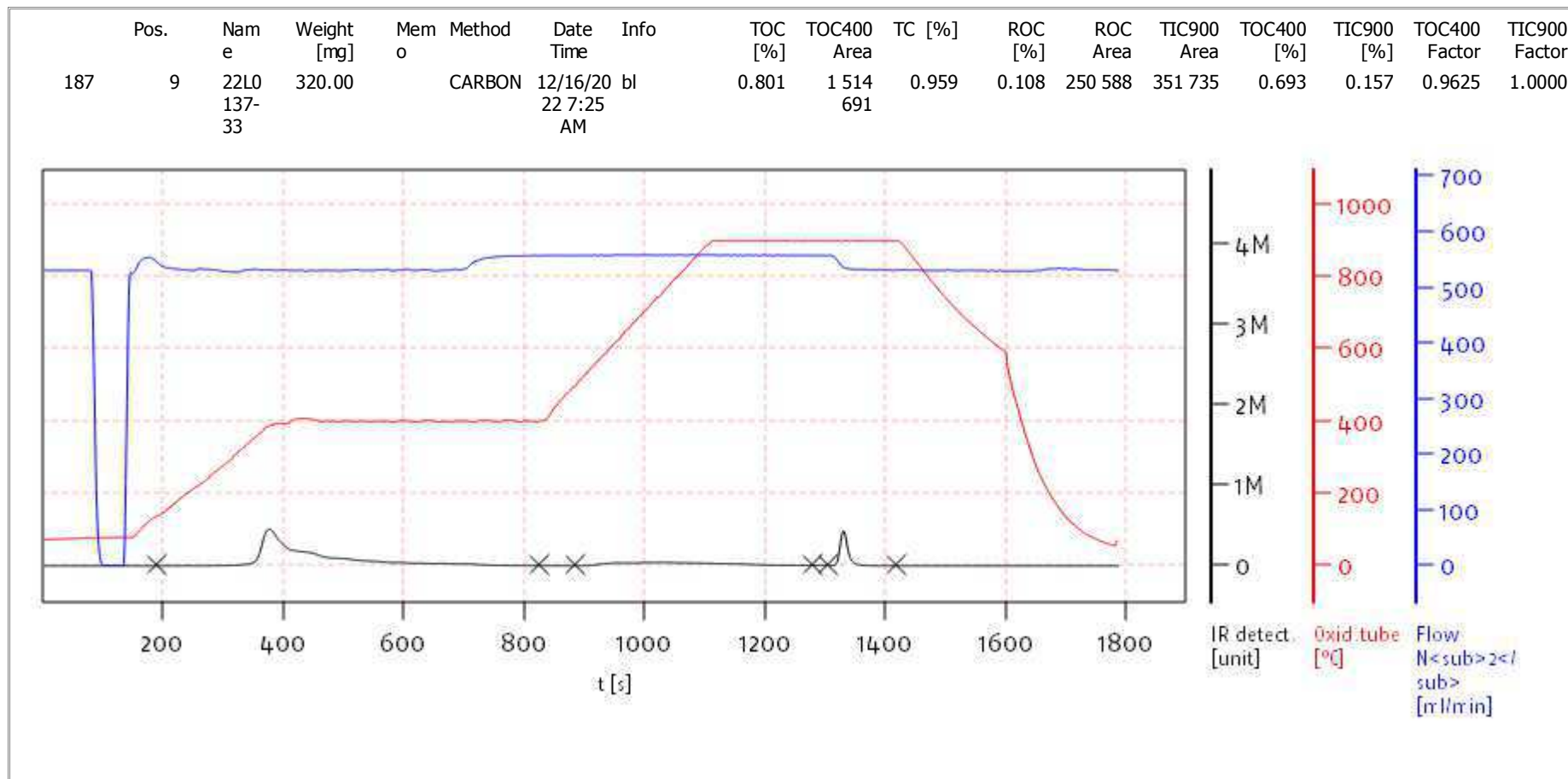
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Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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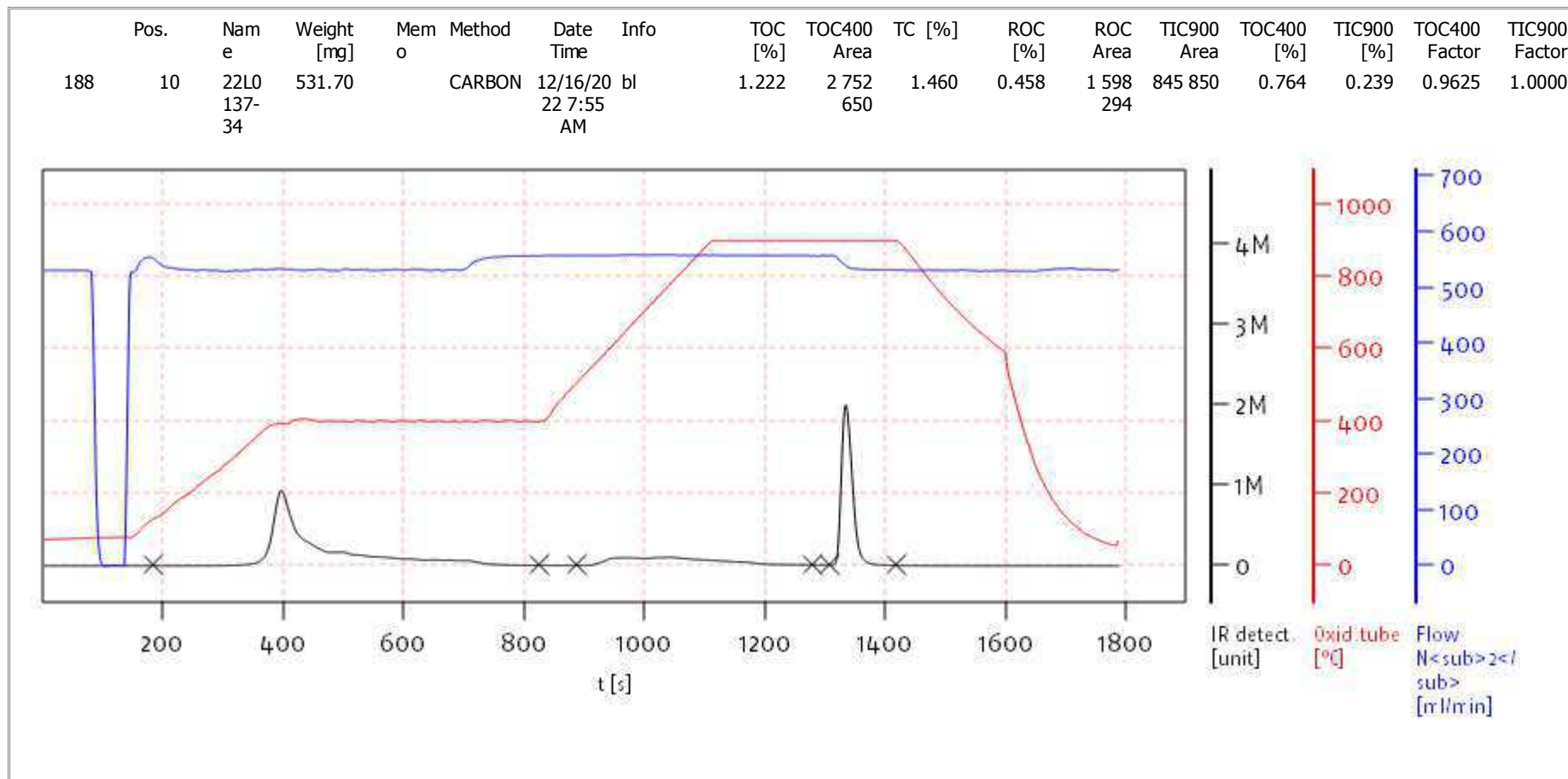
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Soli TOC Cube, Carbon
 Balance: BAL3
 Analyst: DOE



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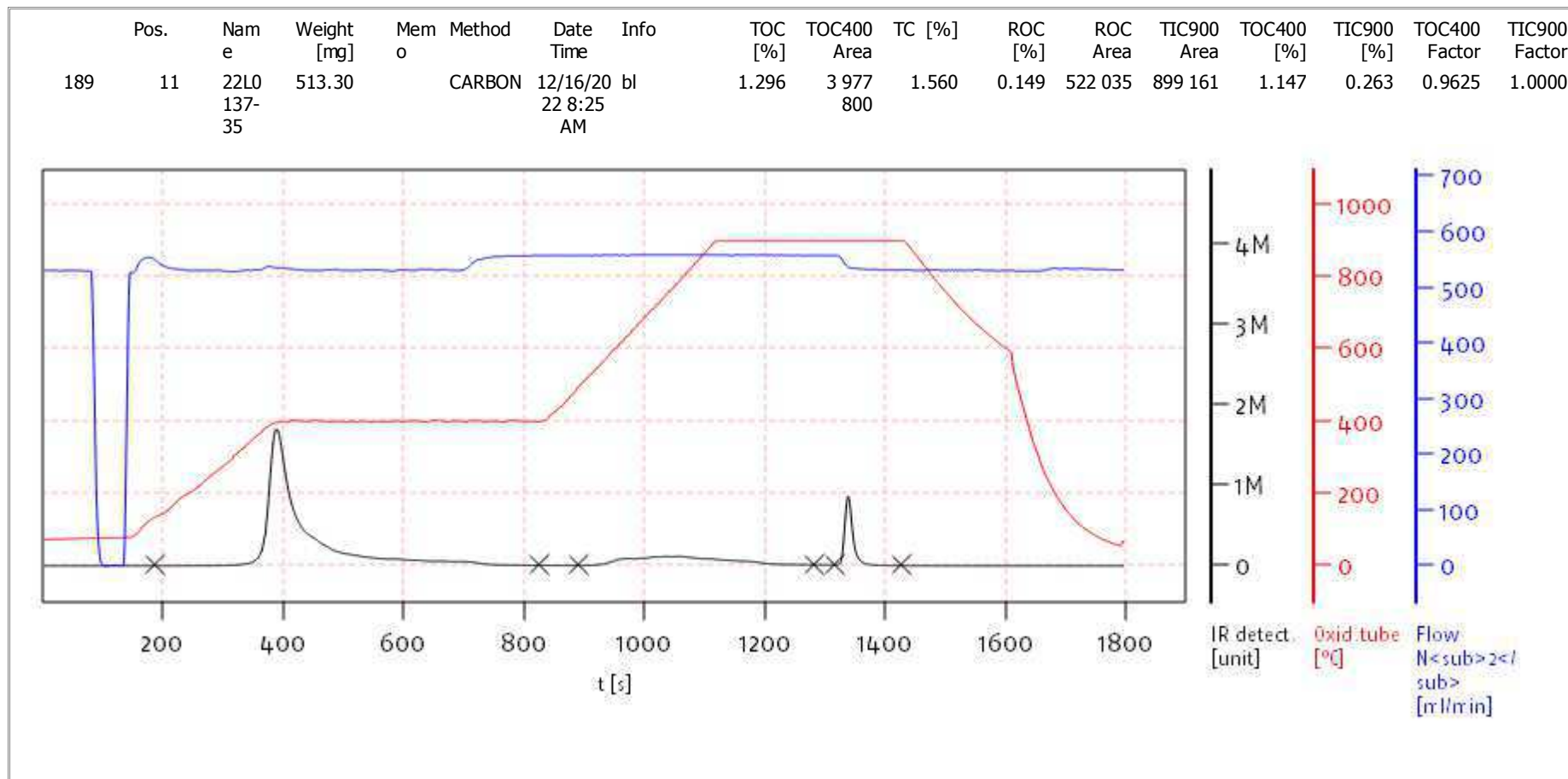
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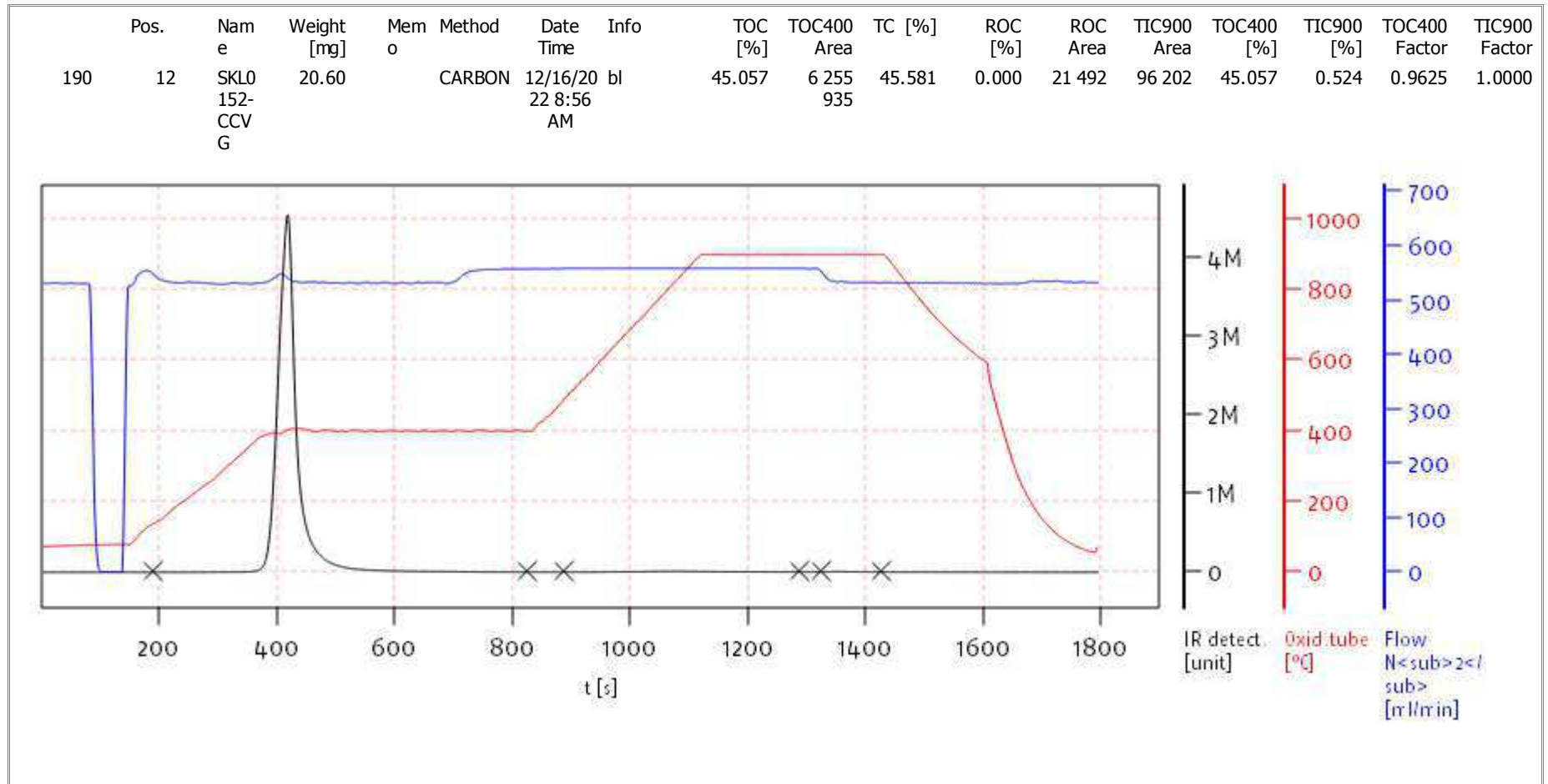
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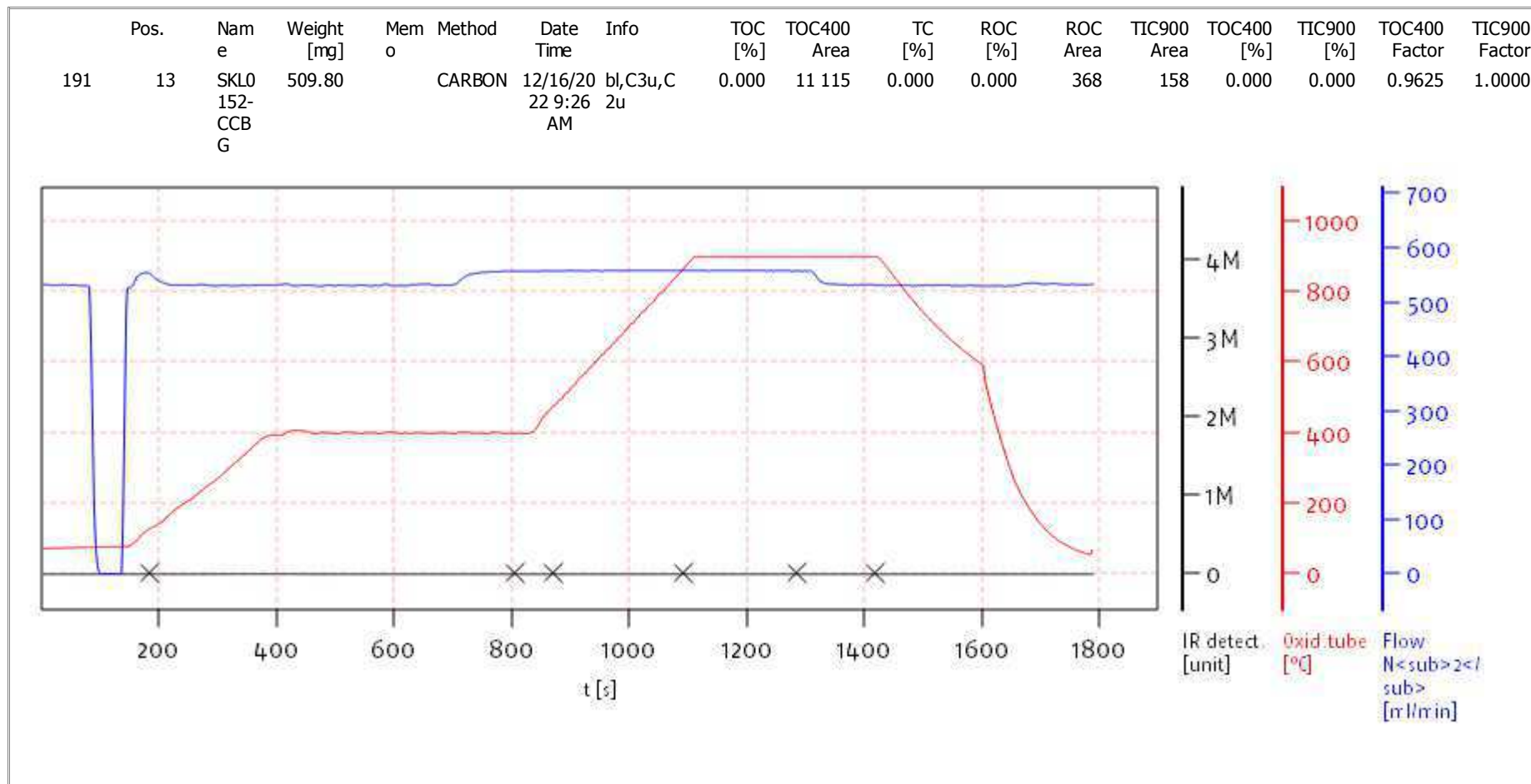
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Soli TOC Cube, Carbon
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 Analyst: DOE



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Access: soliTOC superuser

Date: Fri Dec 16 09:43:23 2022



soliTOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FD00070

Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408



INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Calibration: FD00070

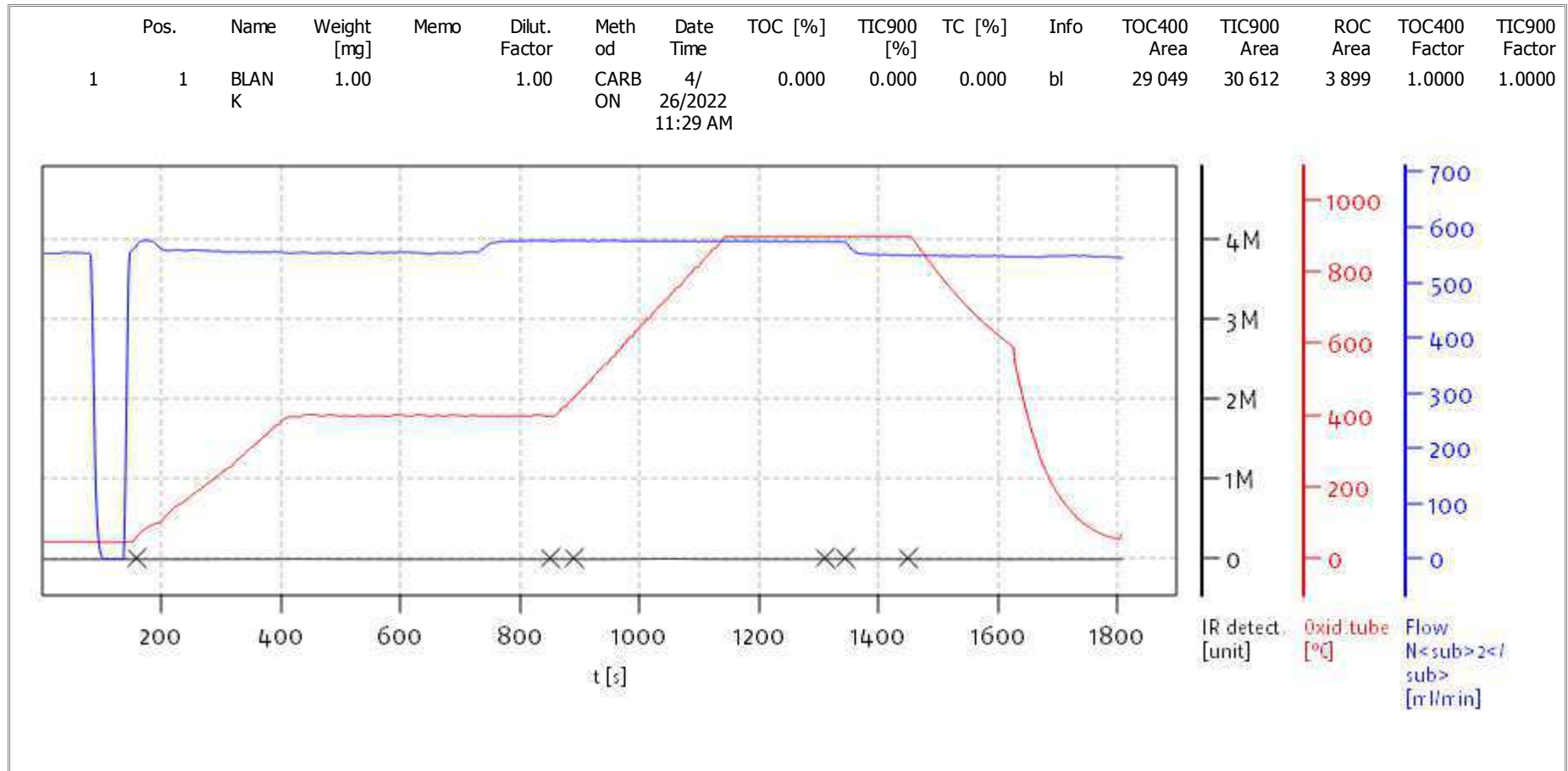
Instrument: TOC Cube

Calibration Date: 04/26/2022 11:29

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

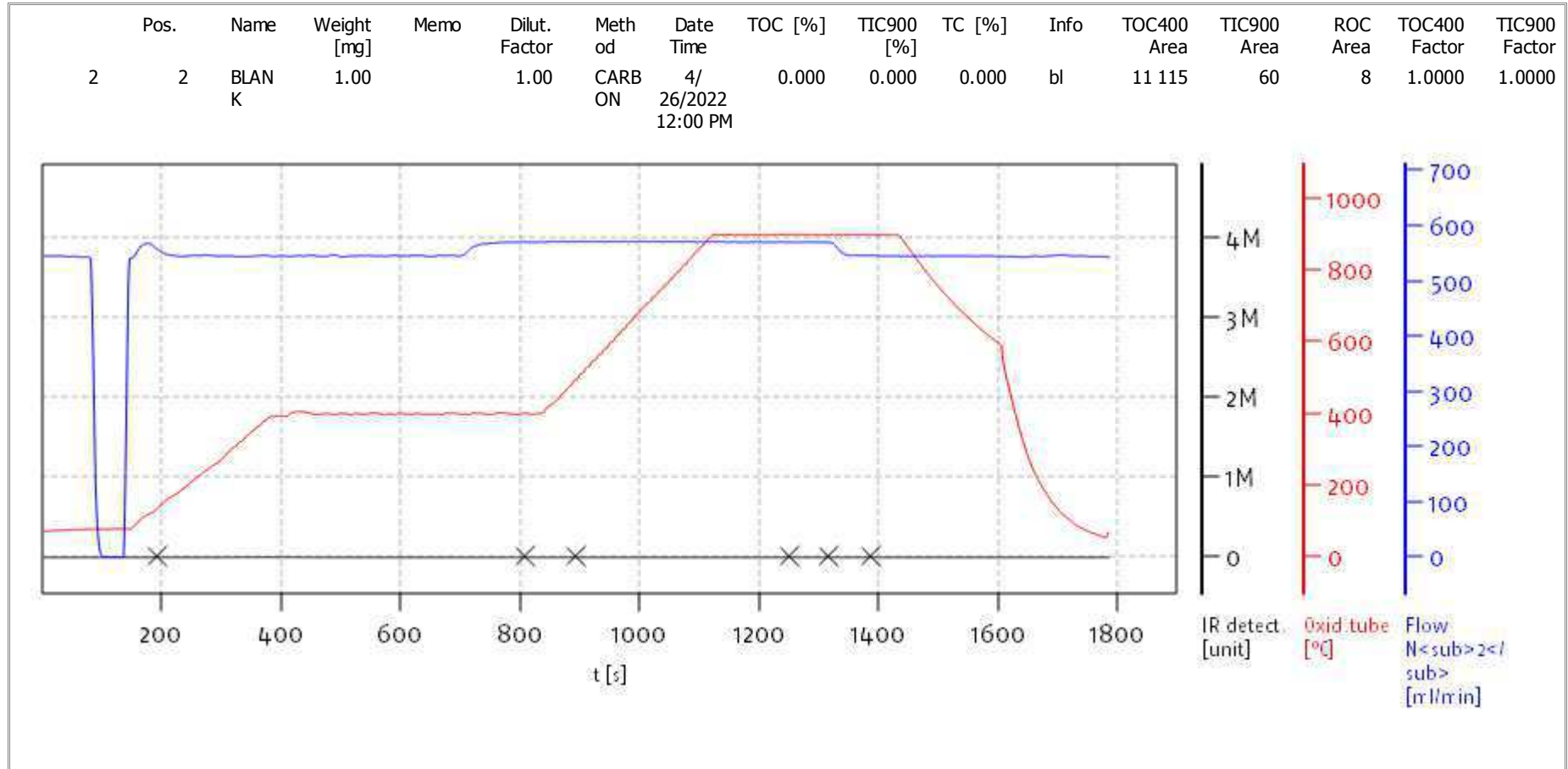
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solITOC V2.0.2 (31015f9) 2018-11-19
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

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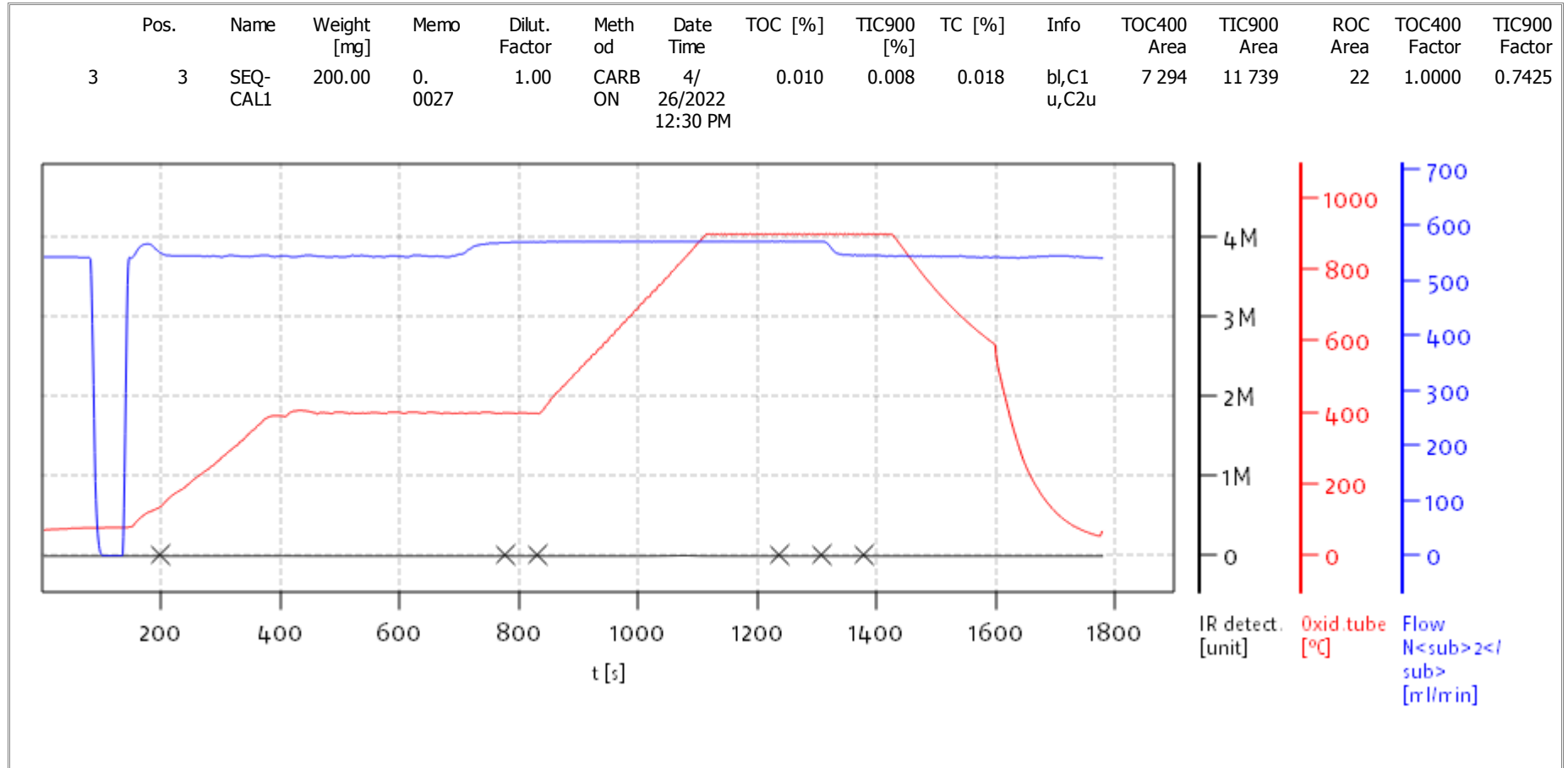
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Soli TOC Cube, Carbon
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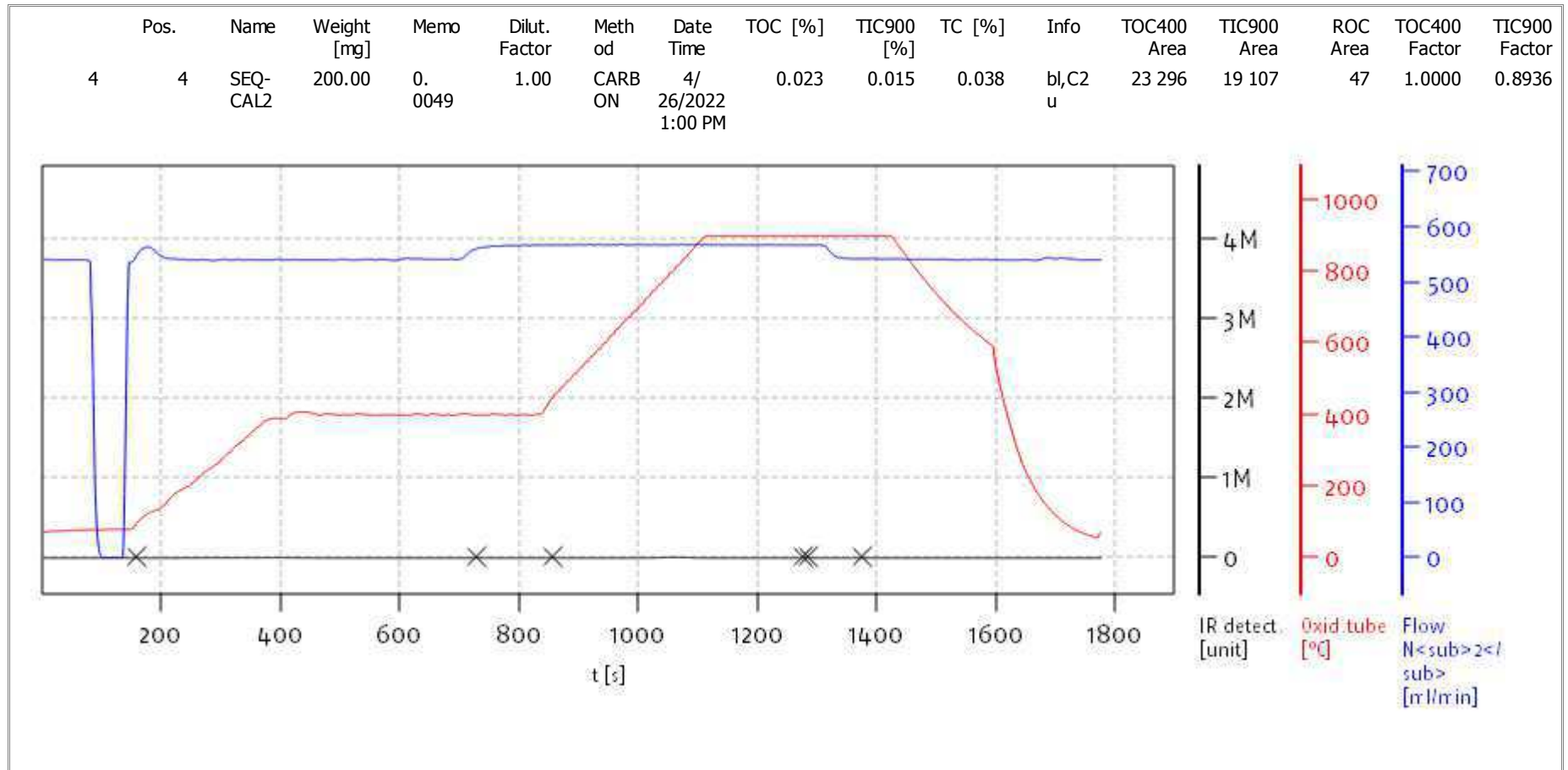
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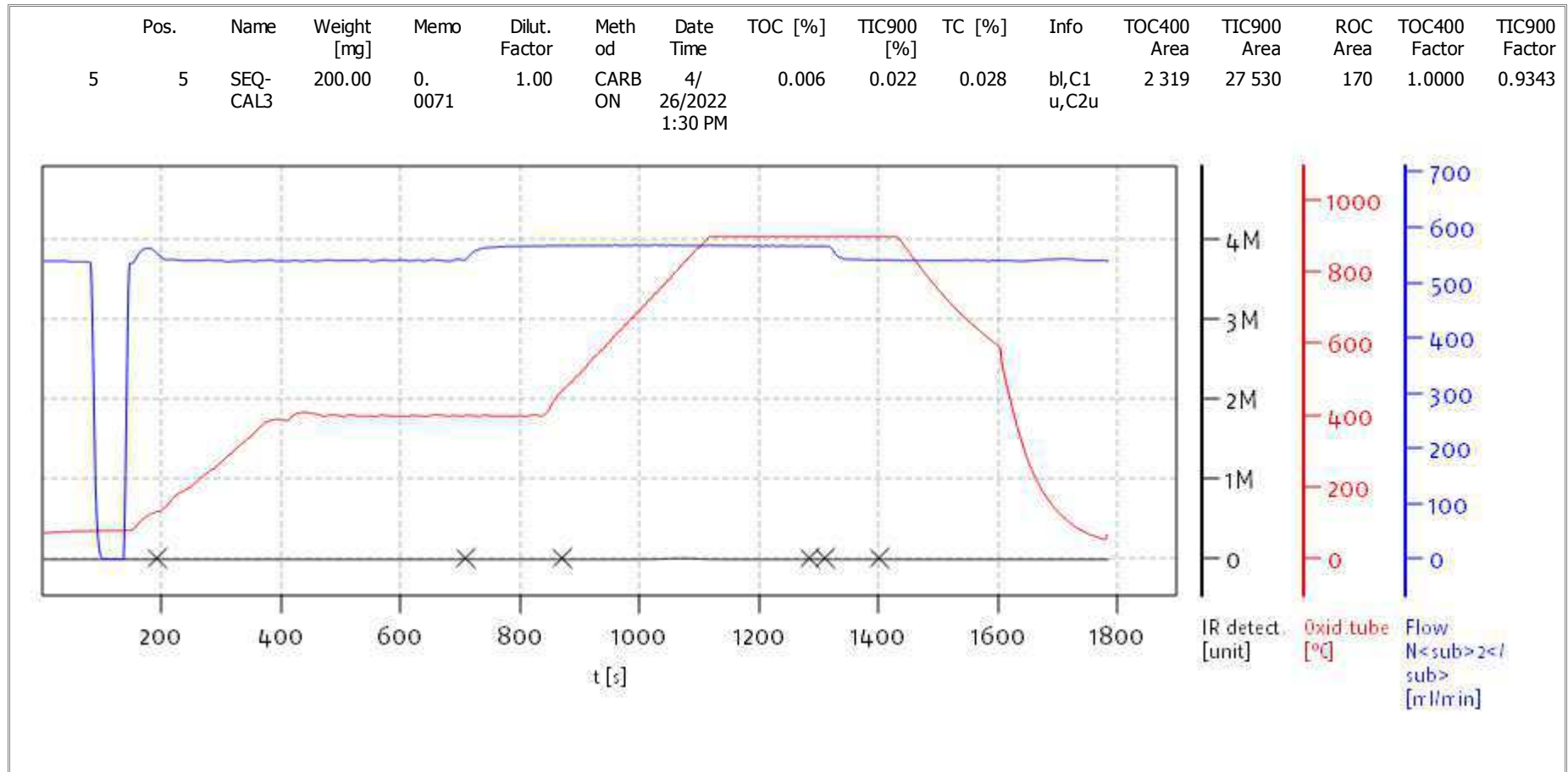
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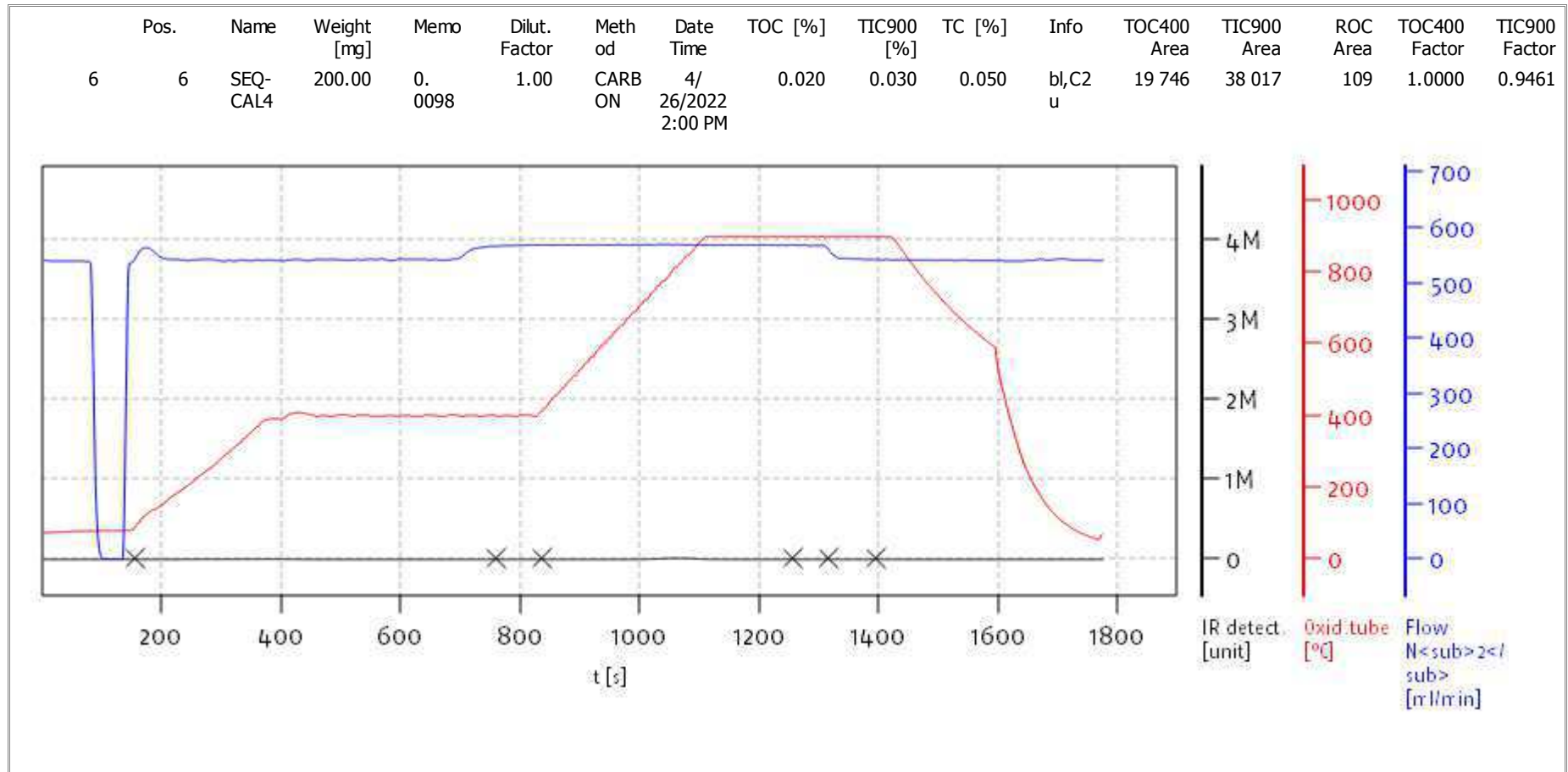
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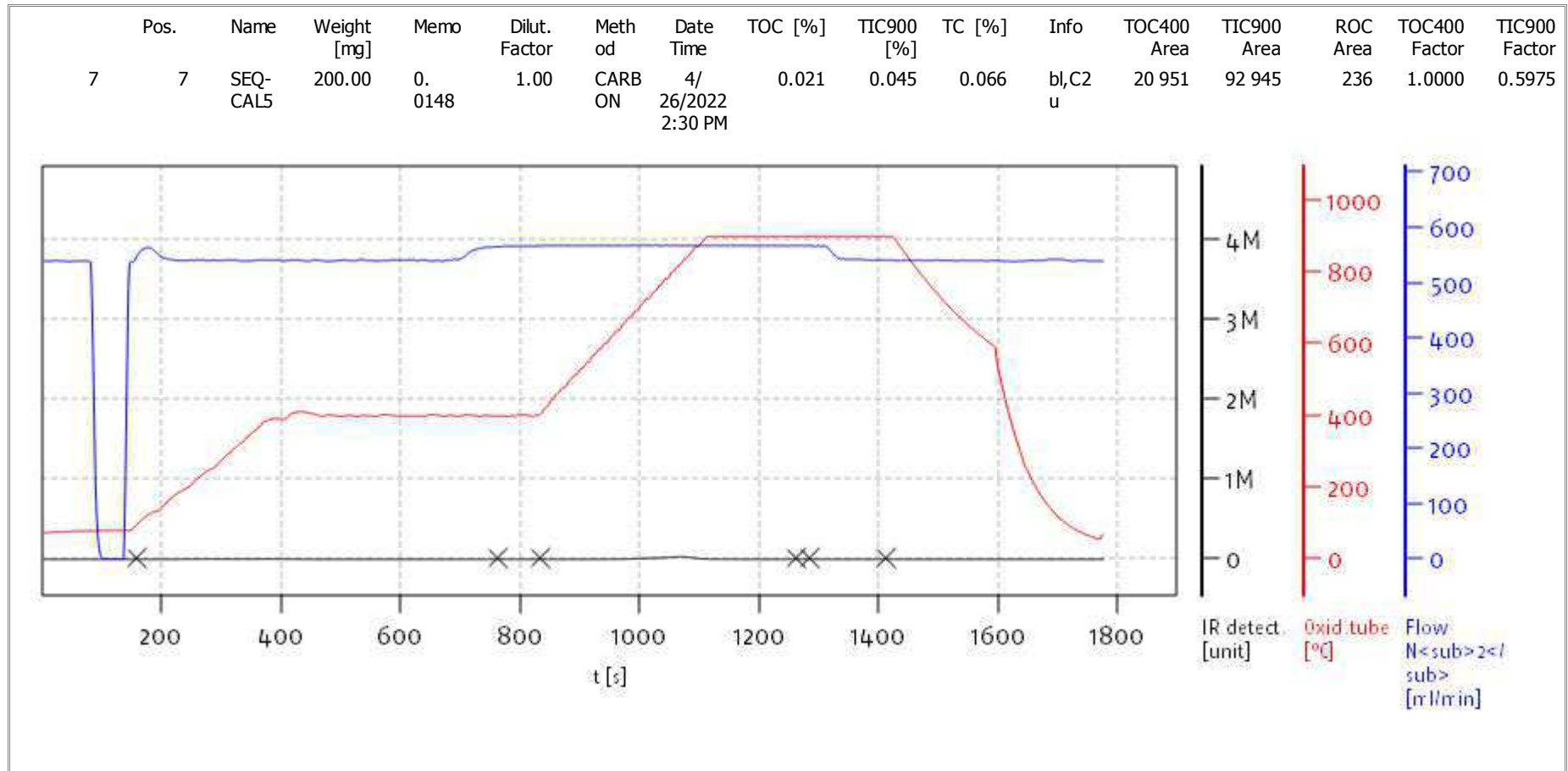
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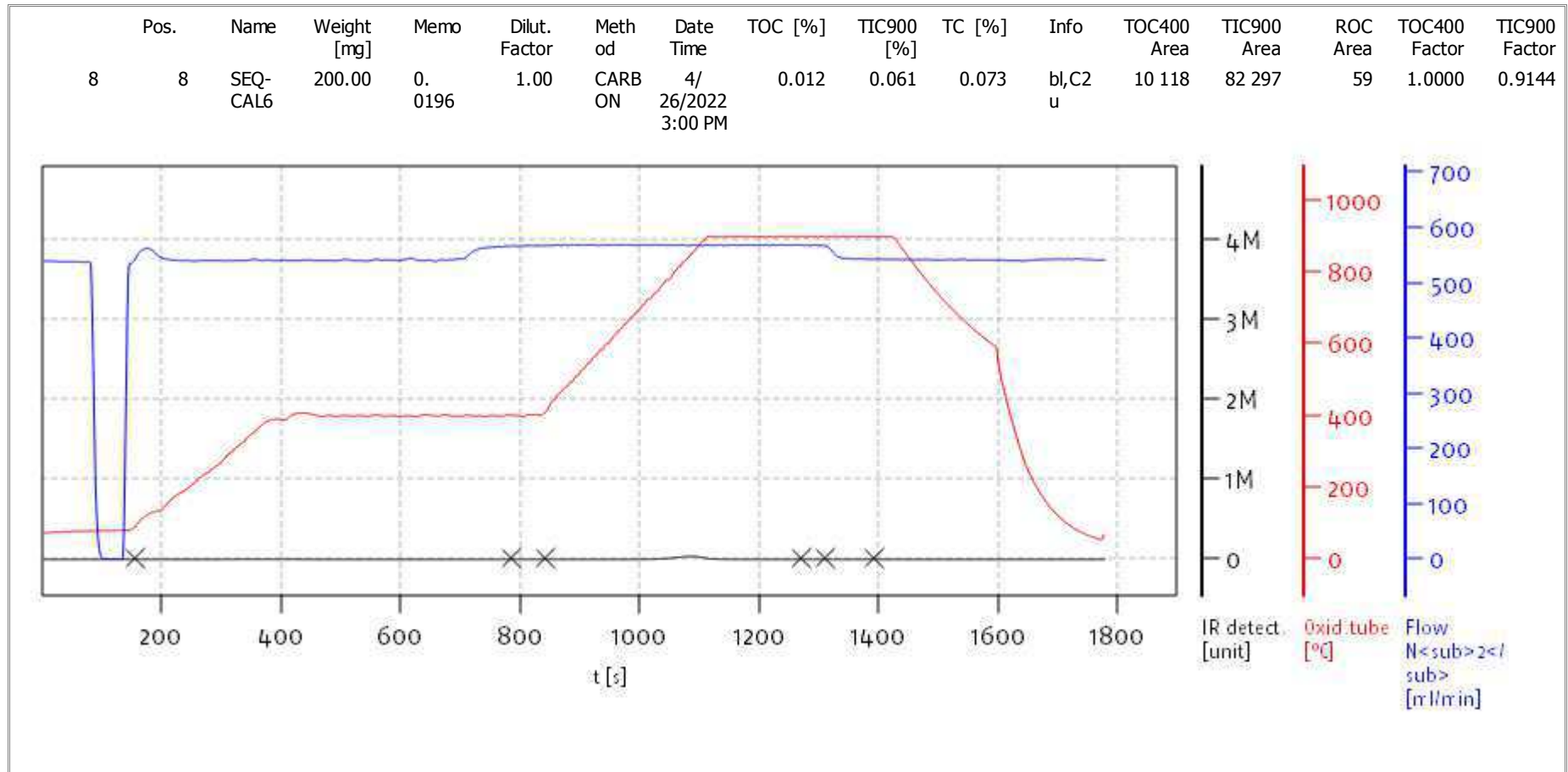
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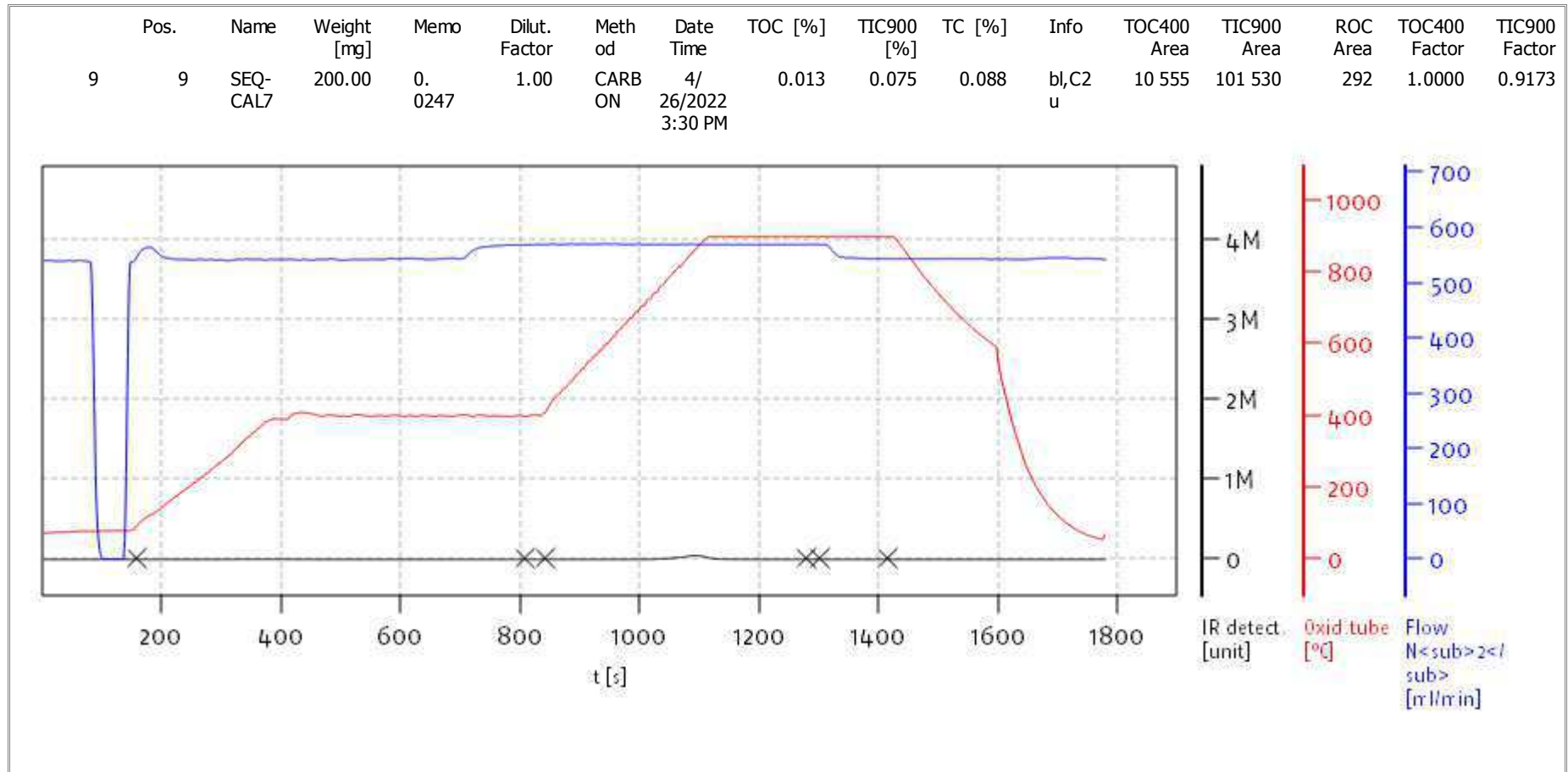
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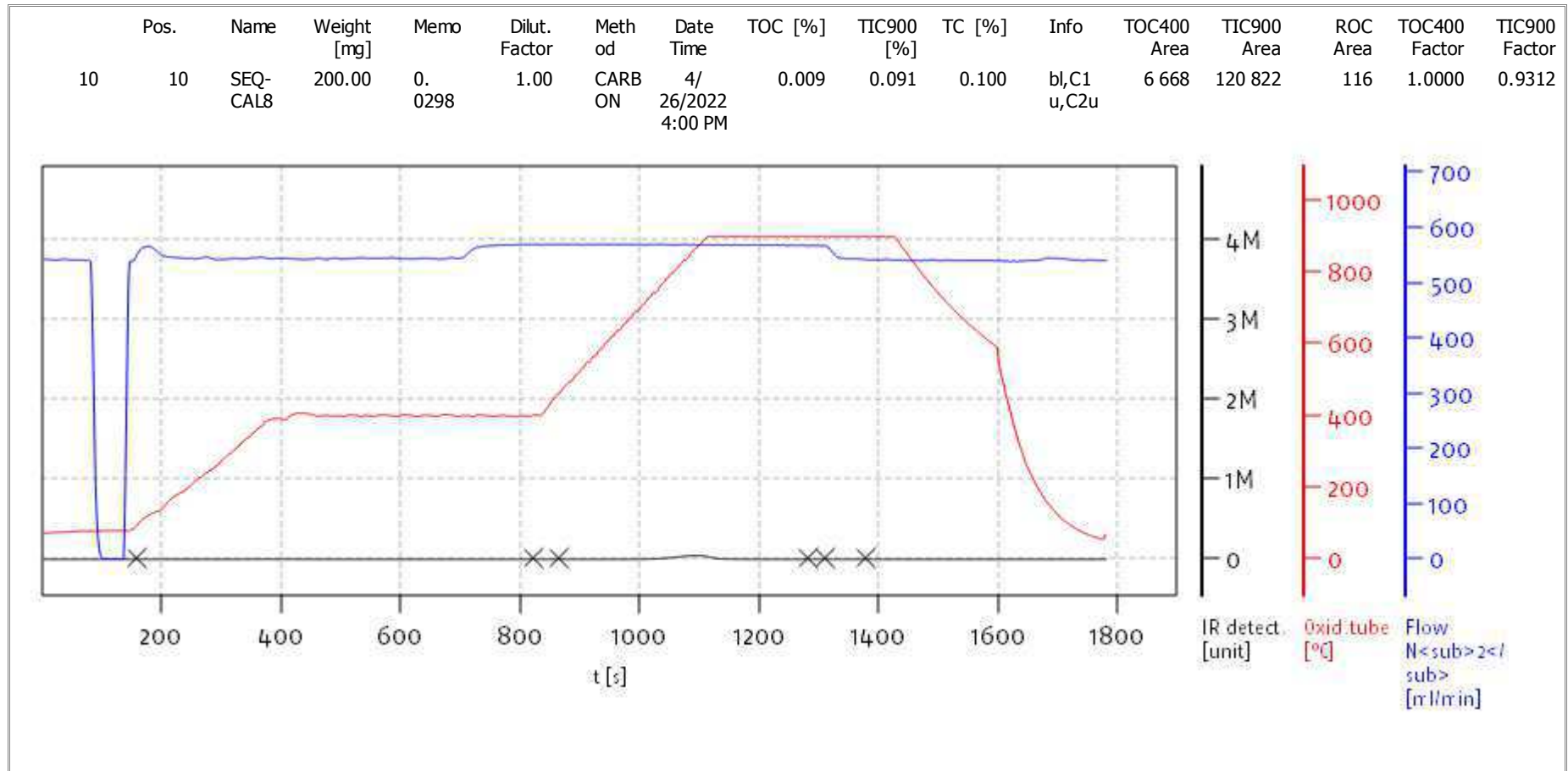
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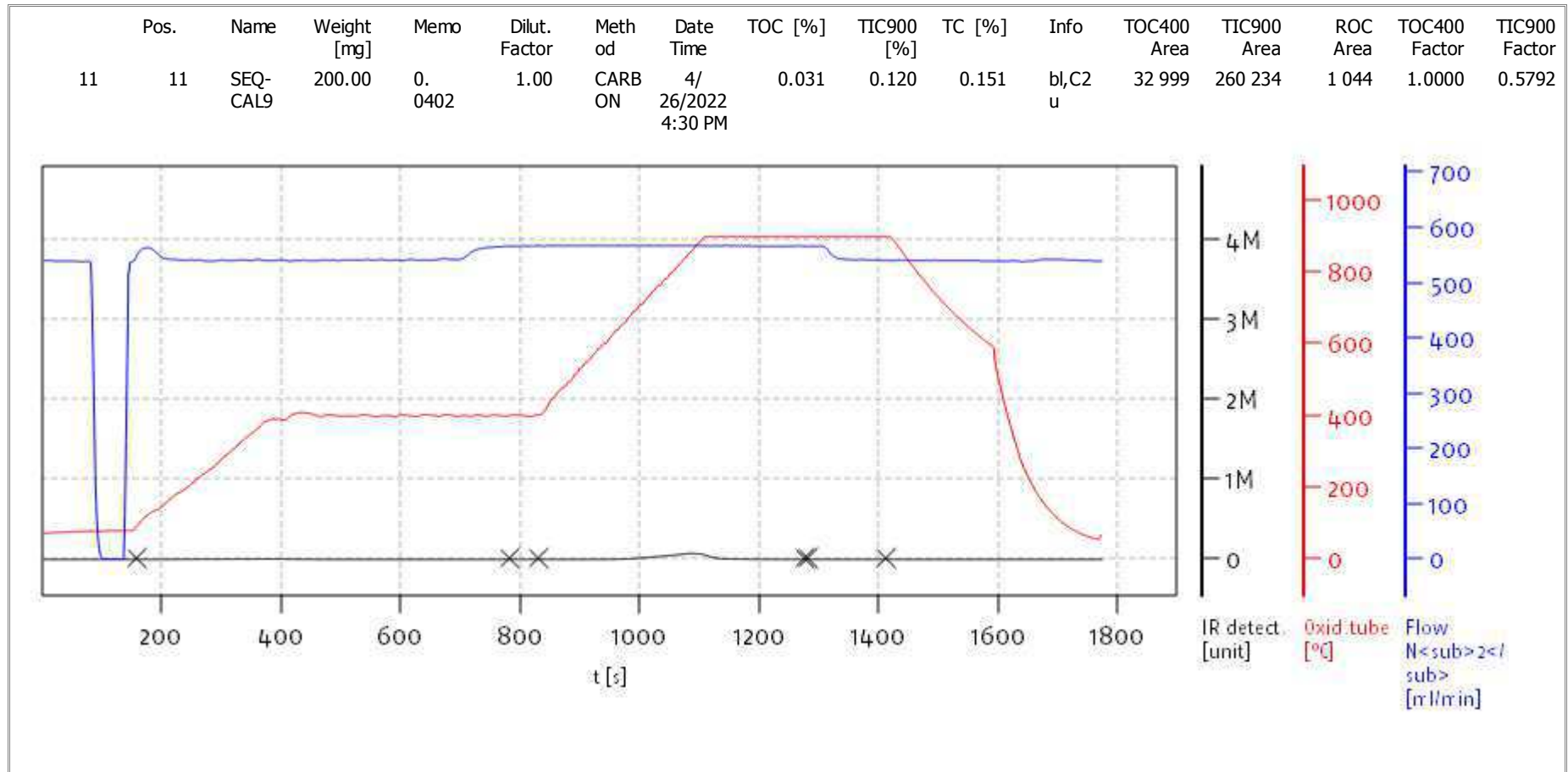
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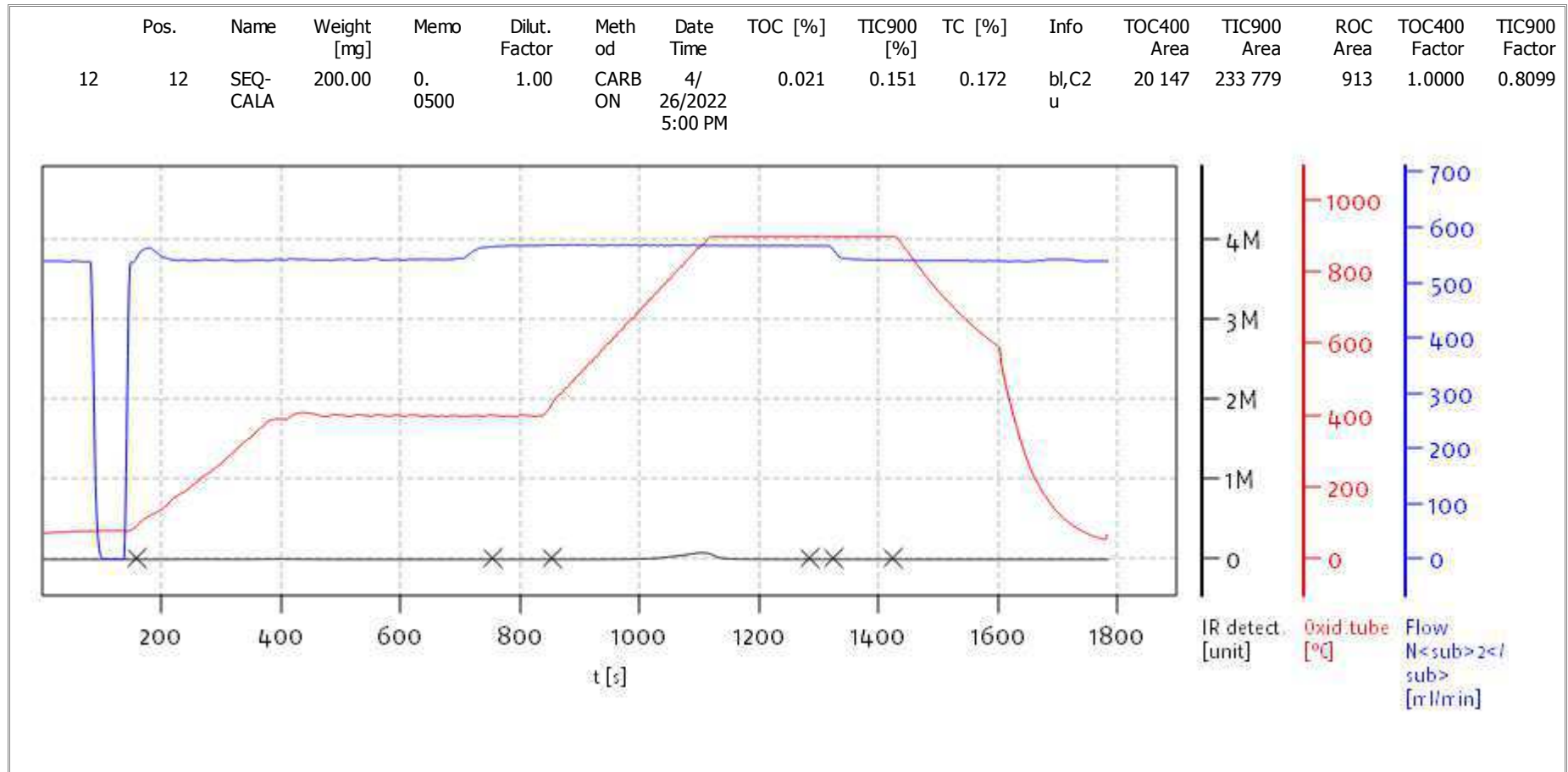
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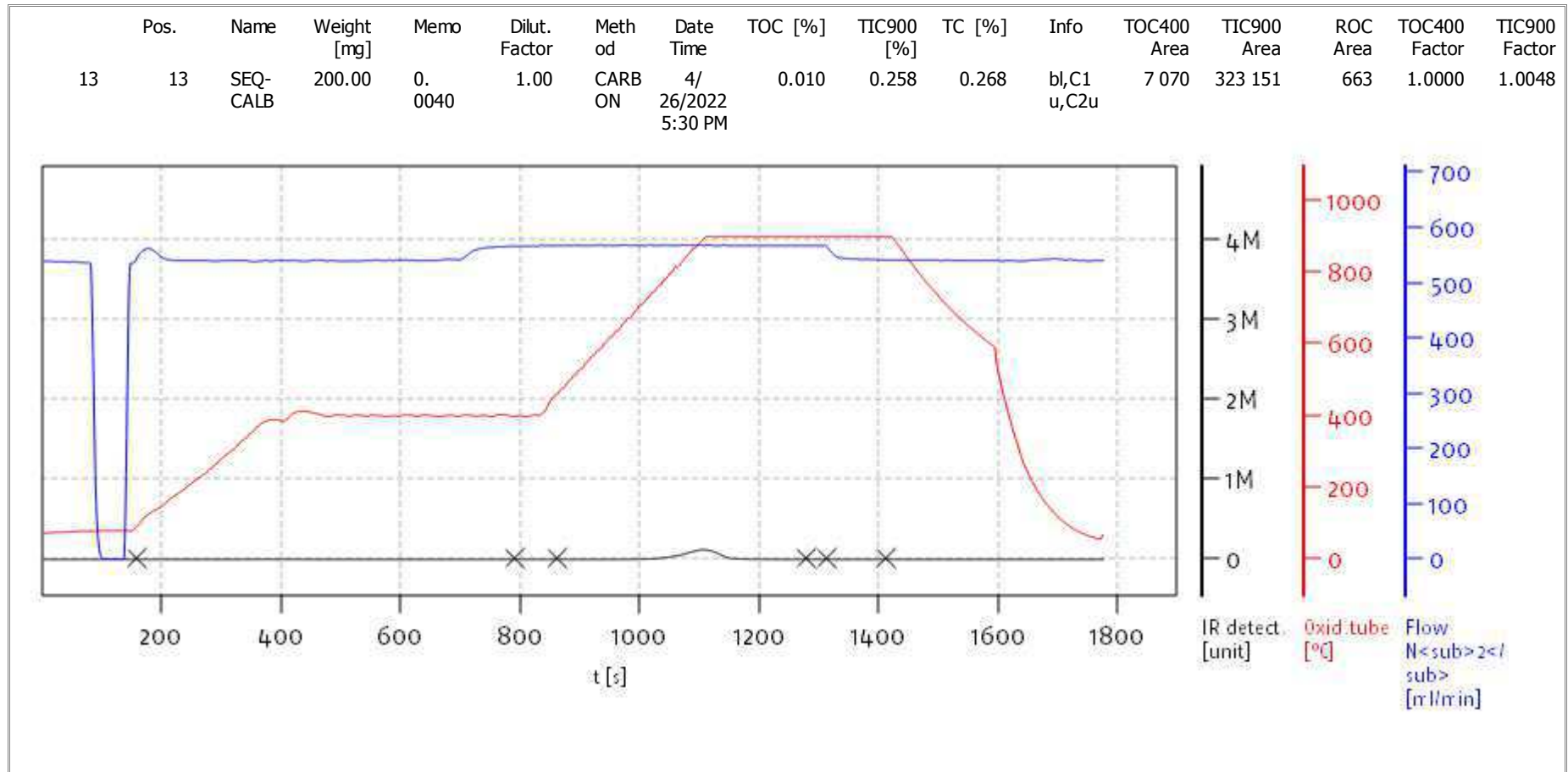
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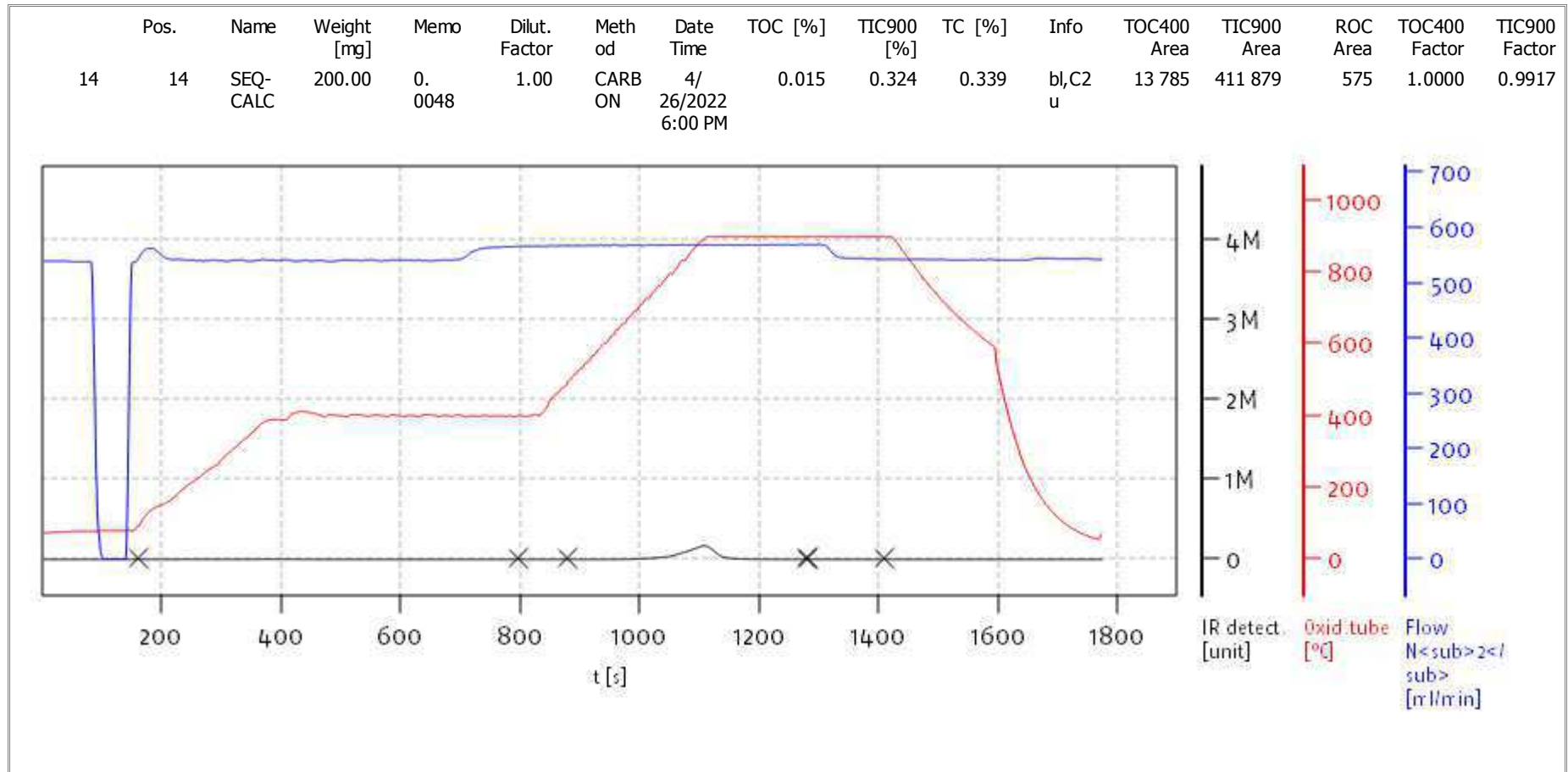
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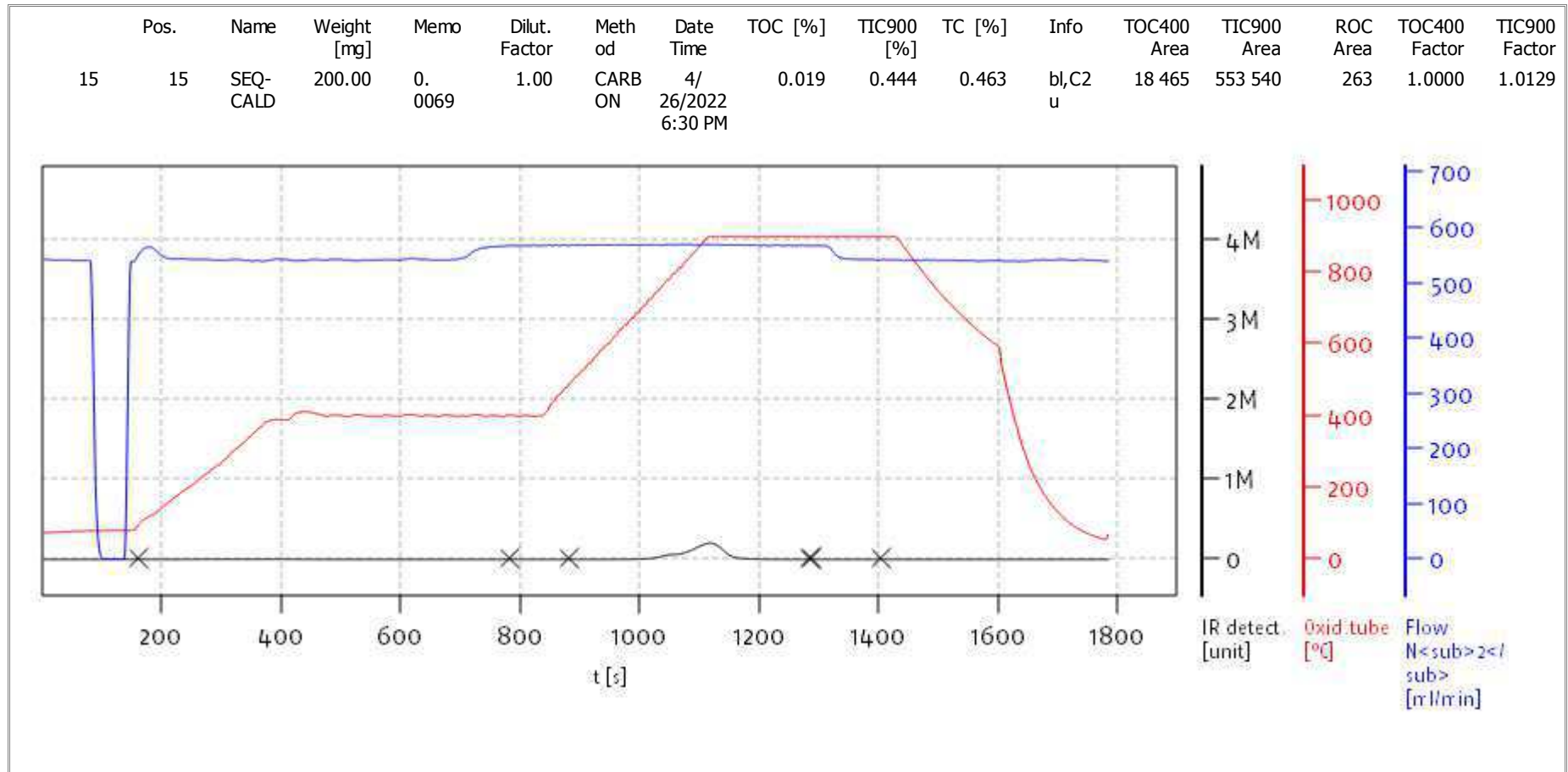
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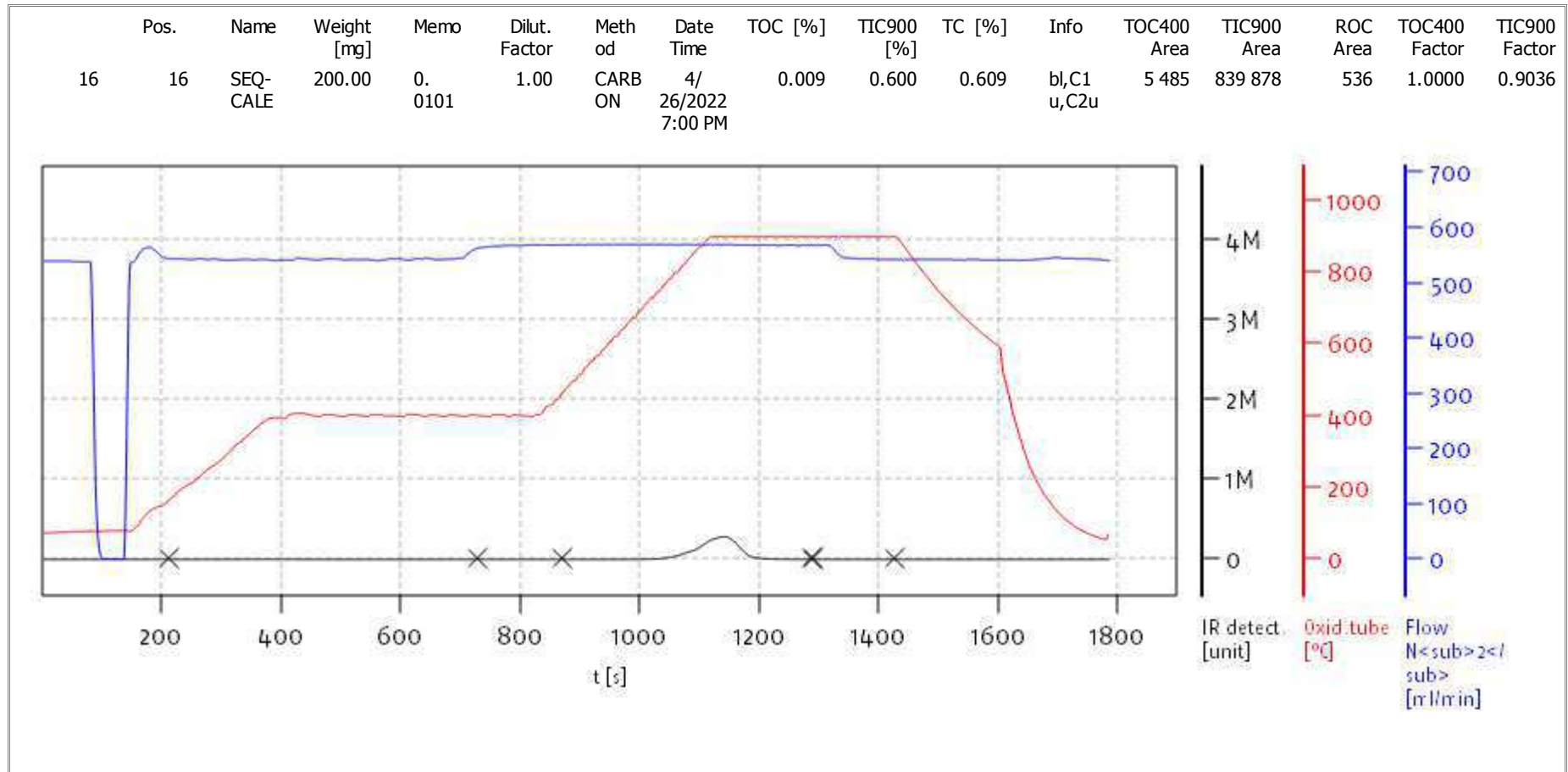
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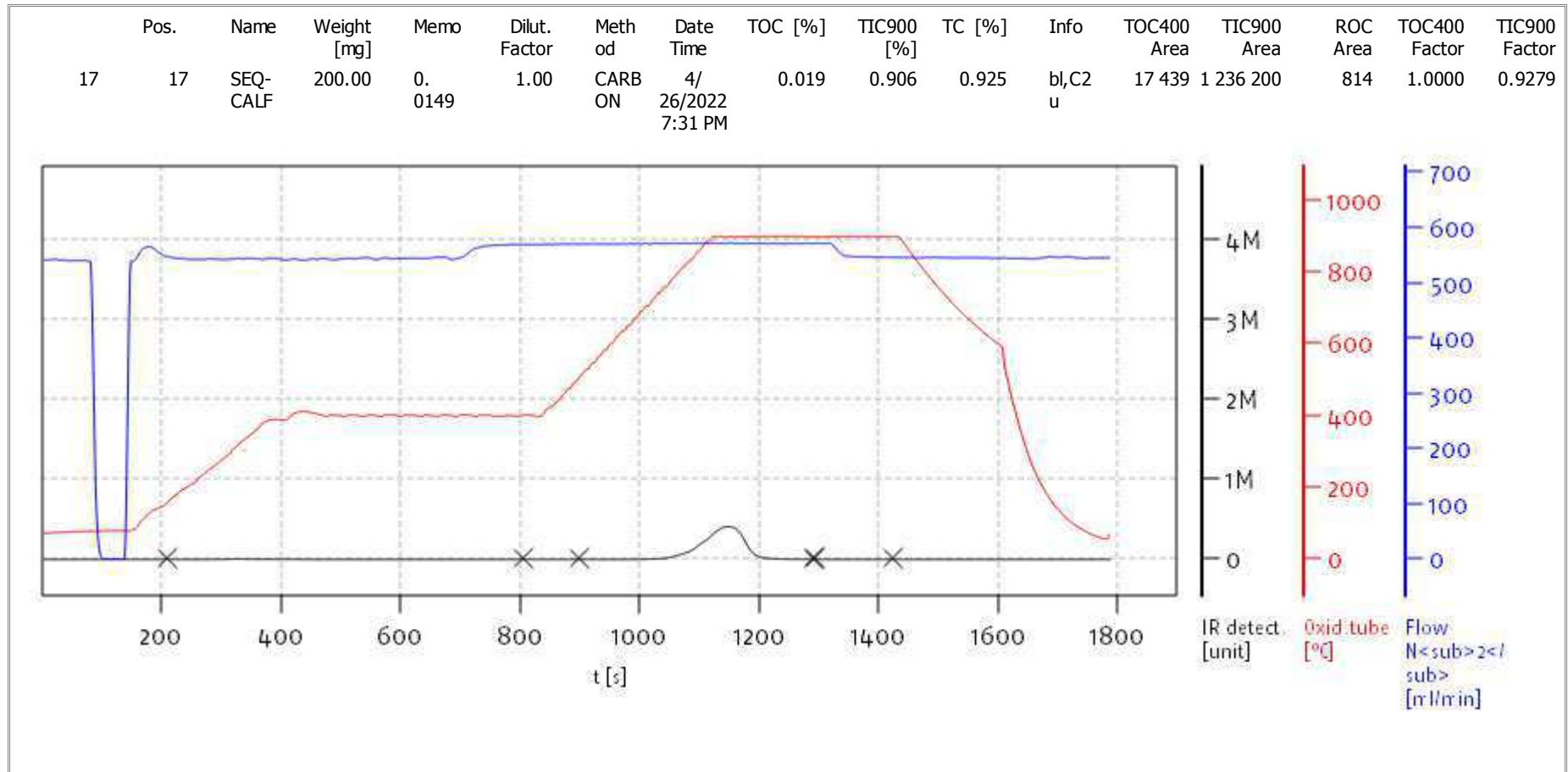
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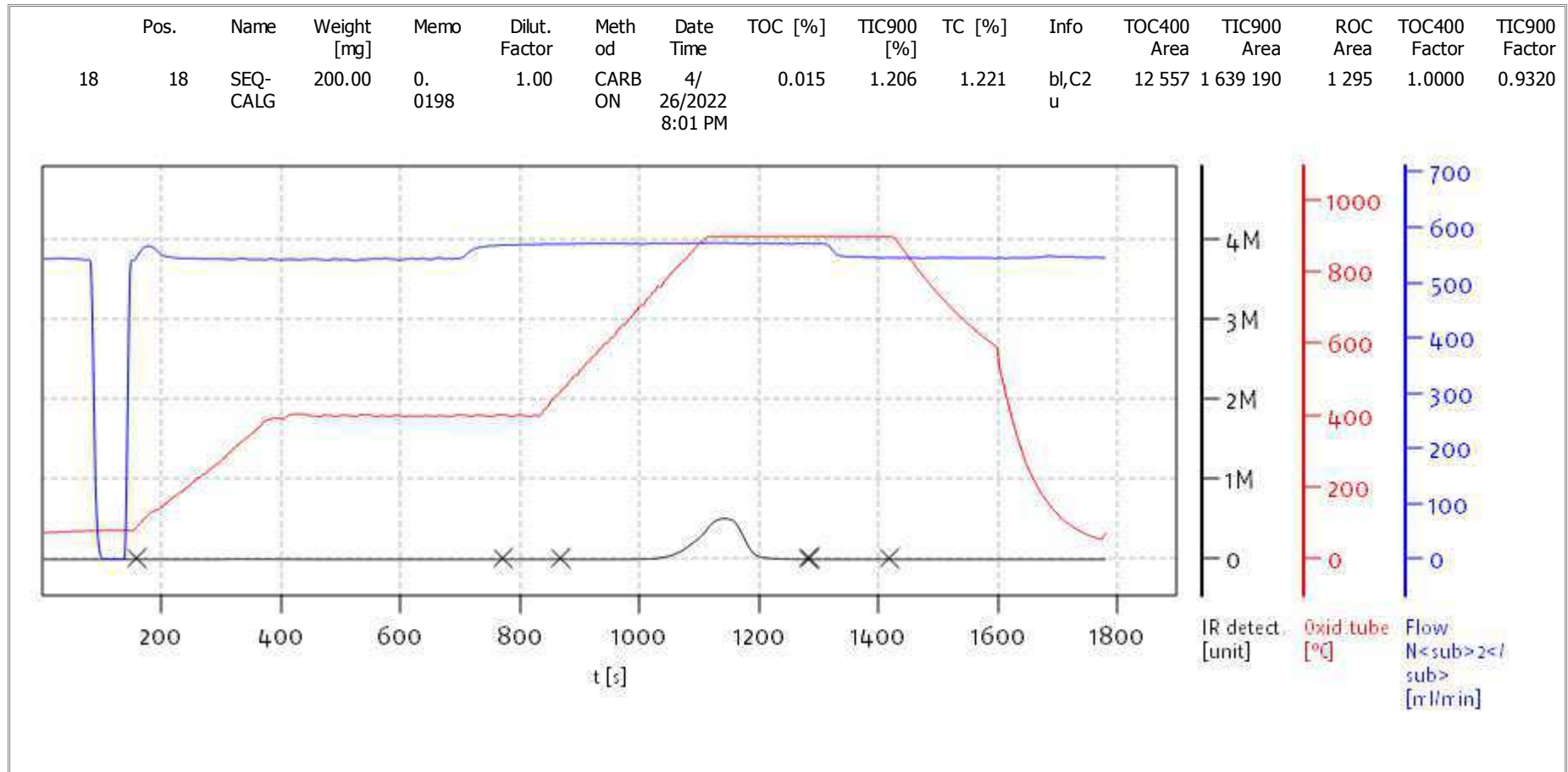
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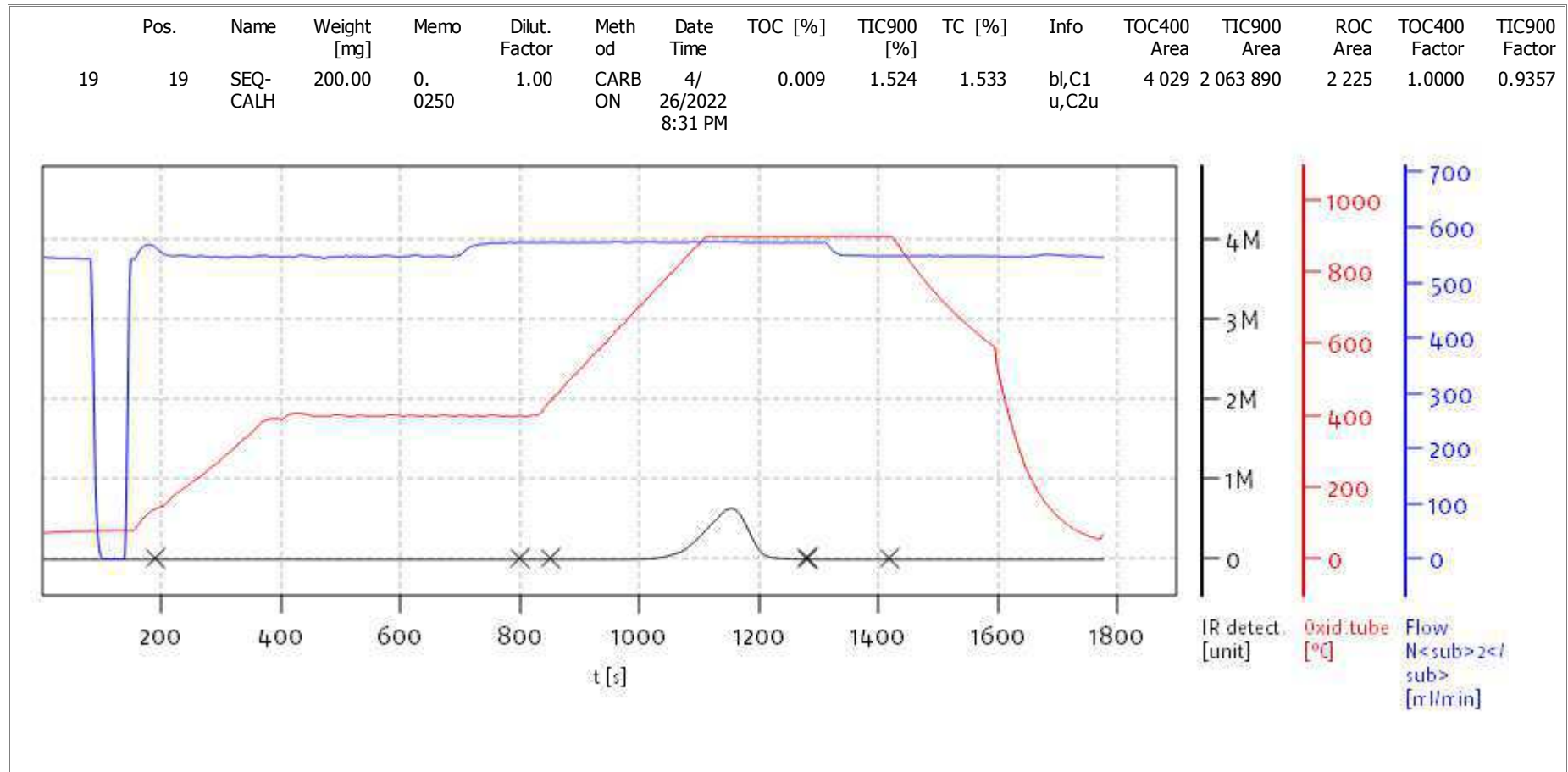
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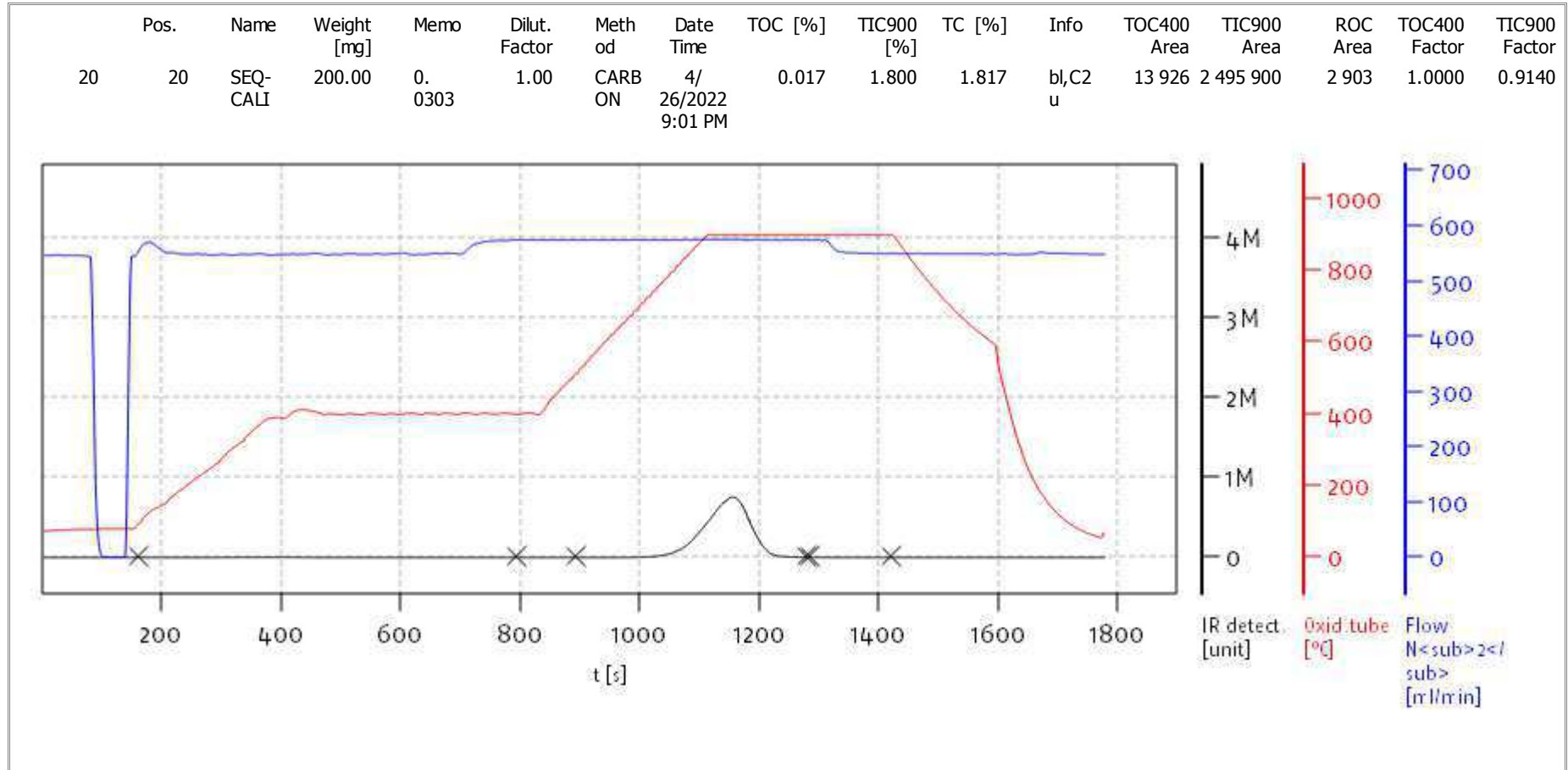
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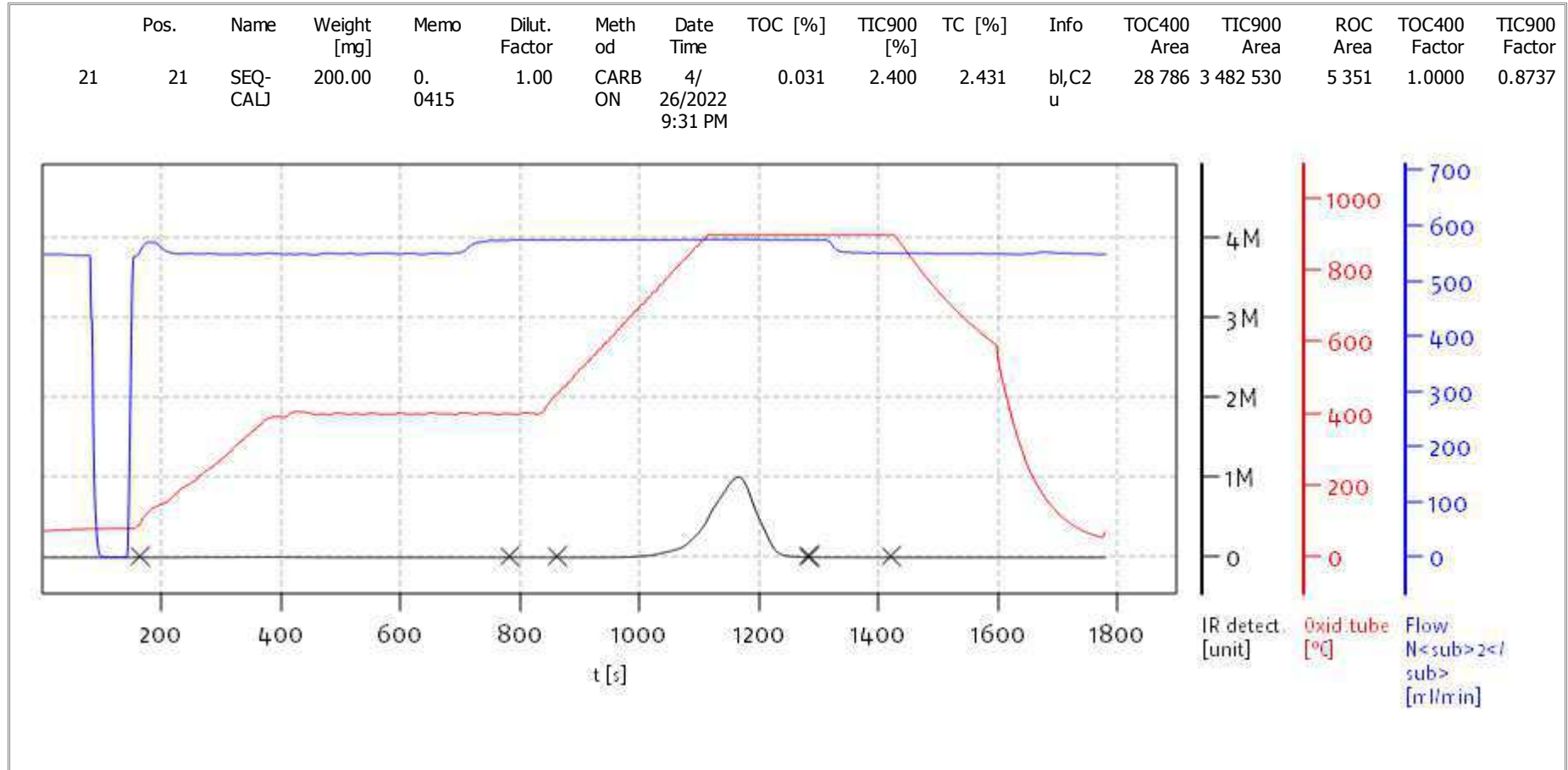
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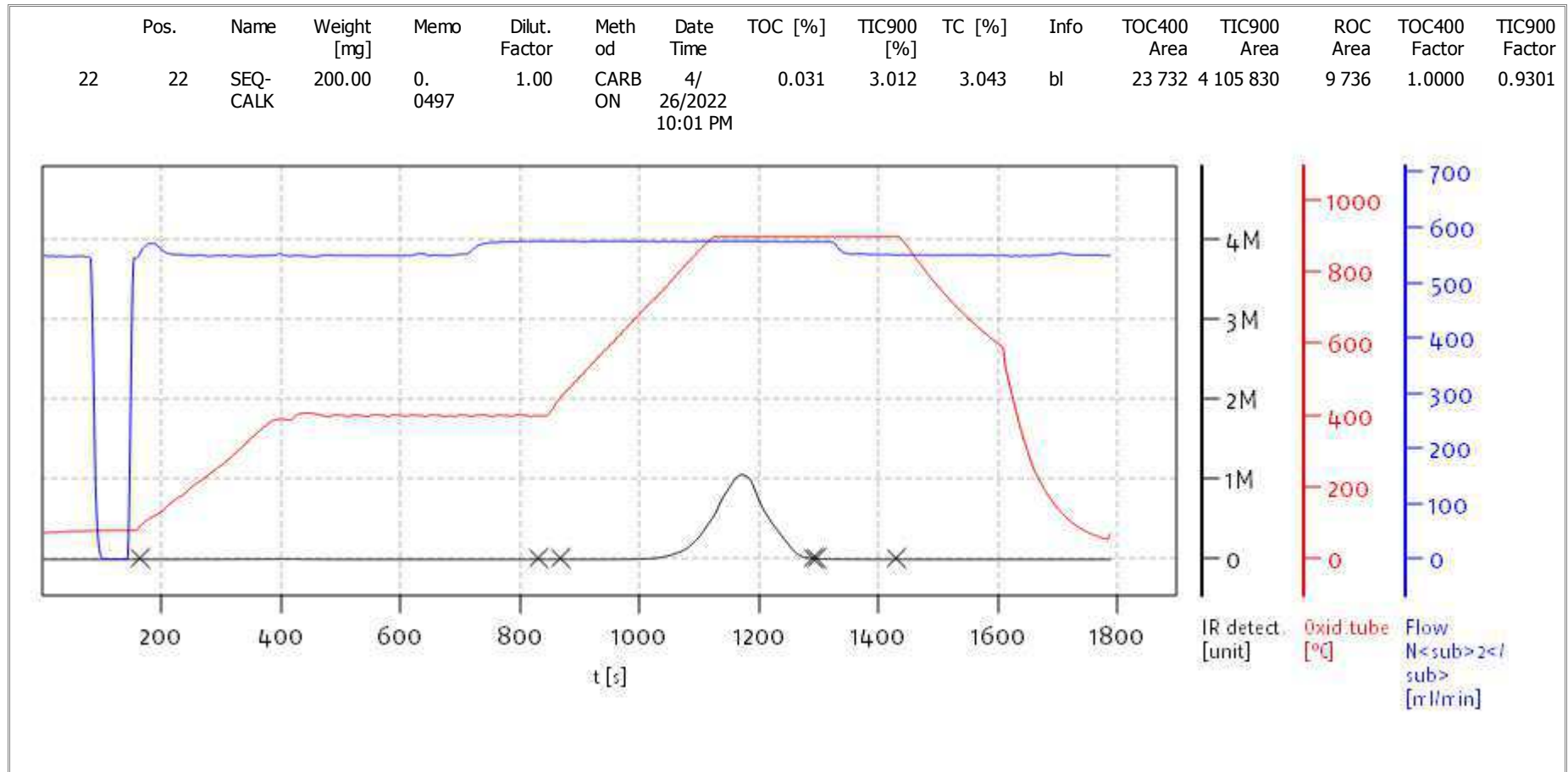
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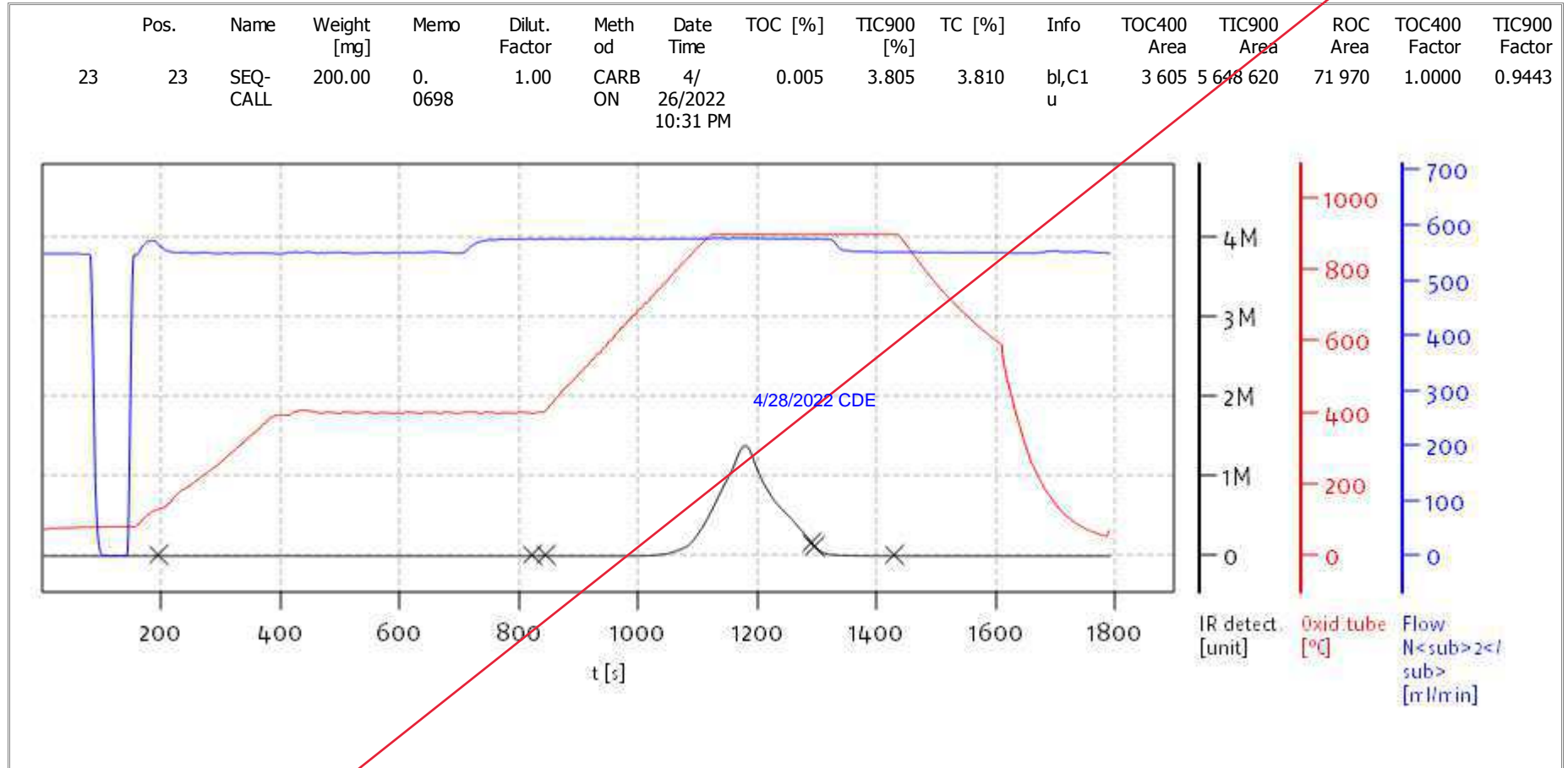
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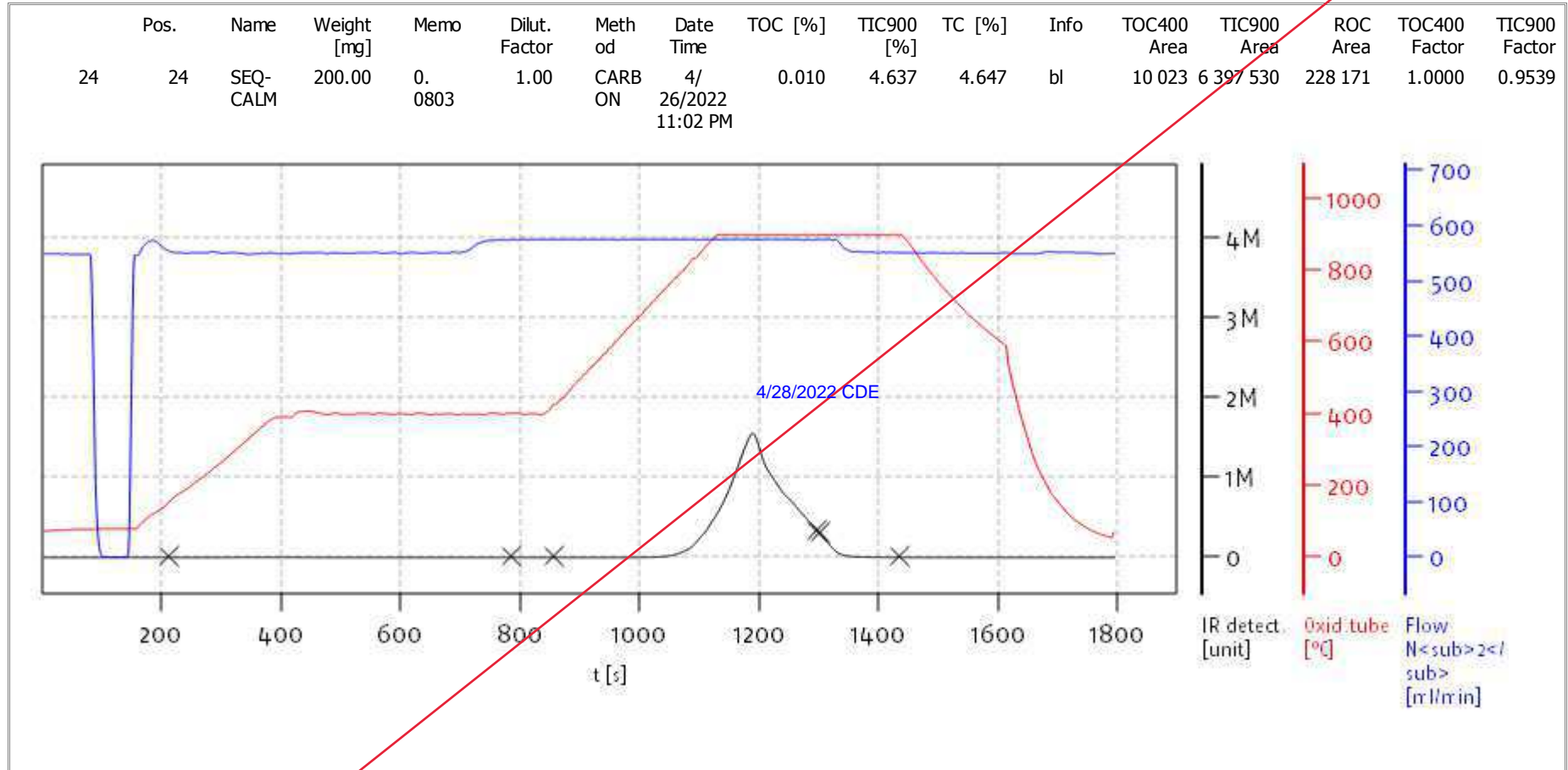
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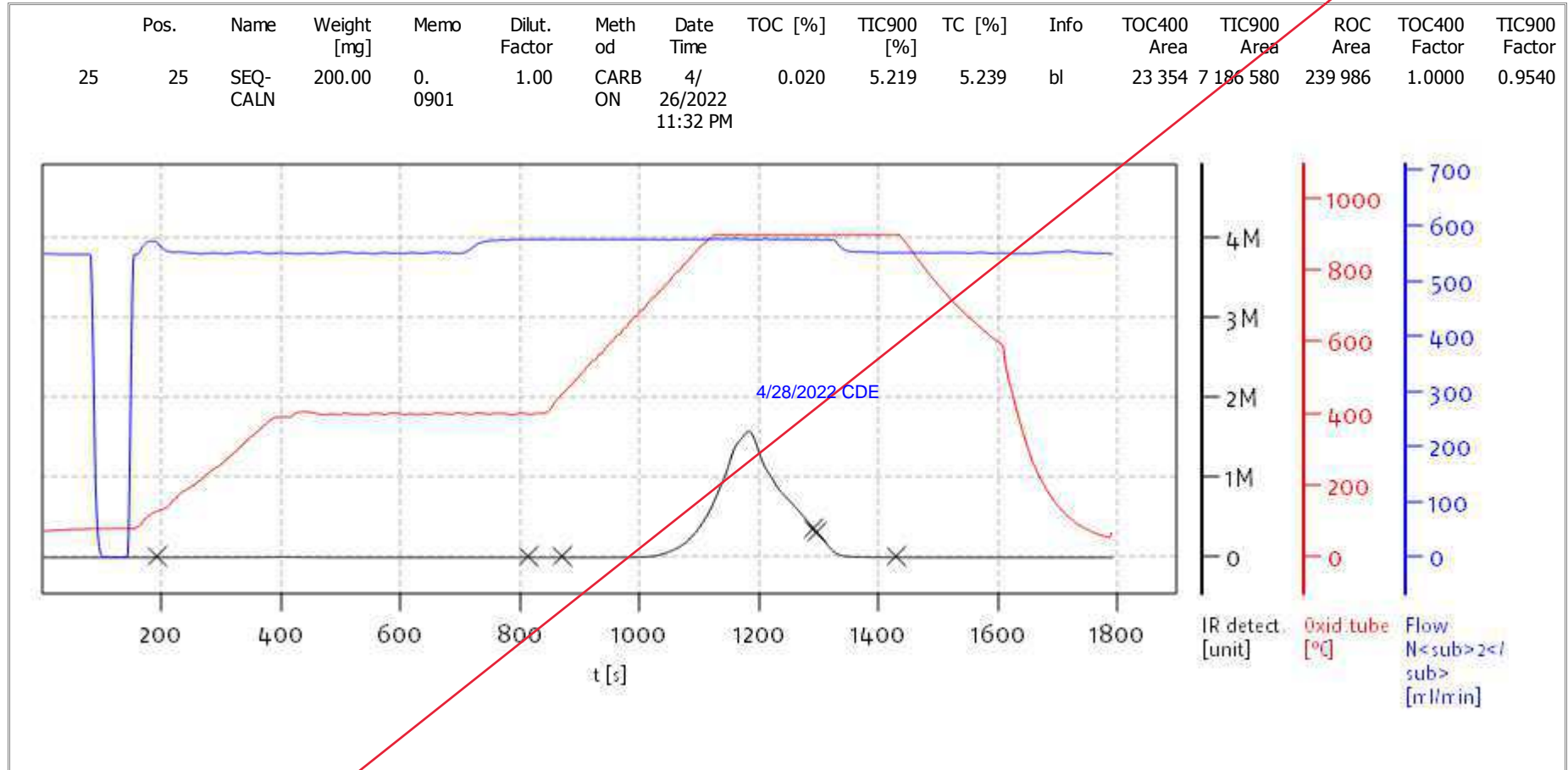
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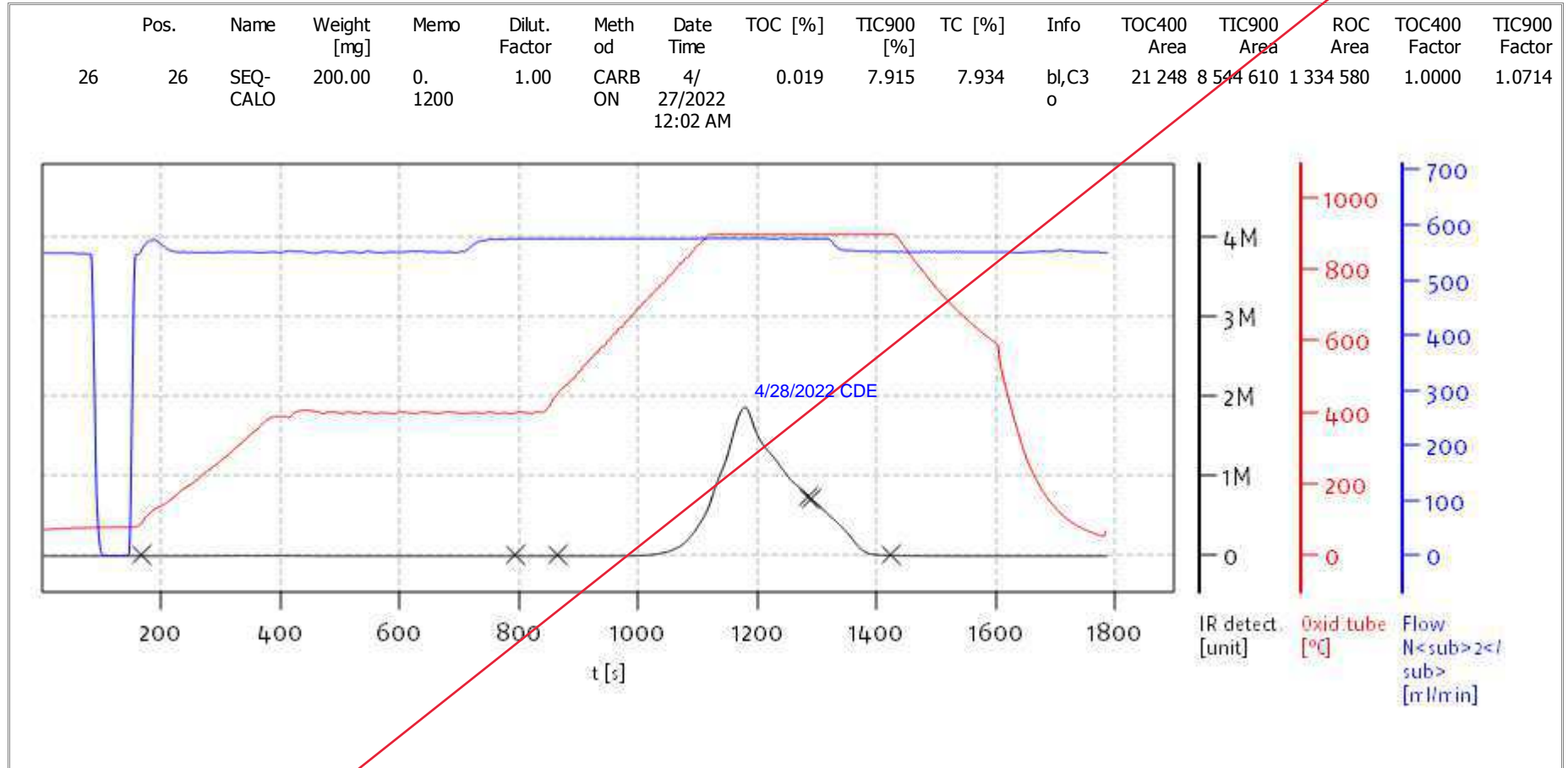
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

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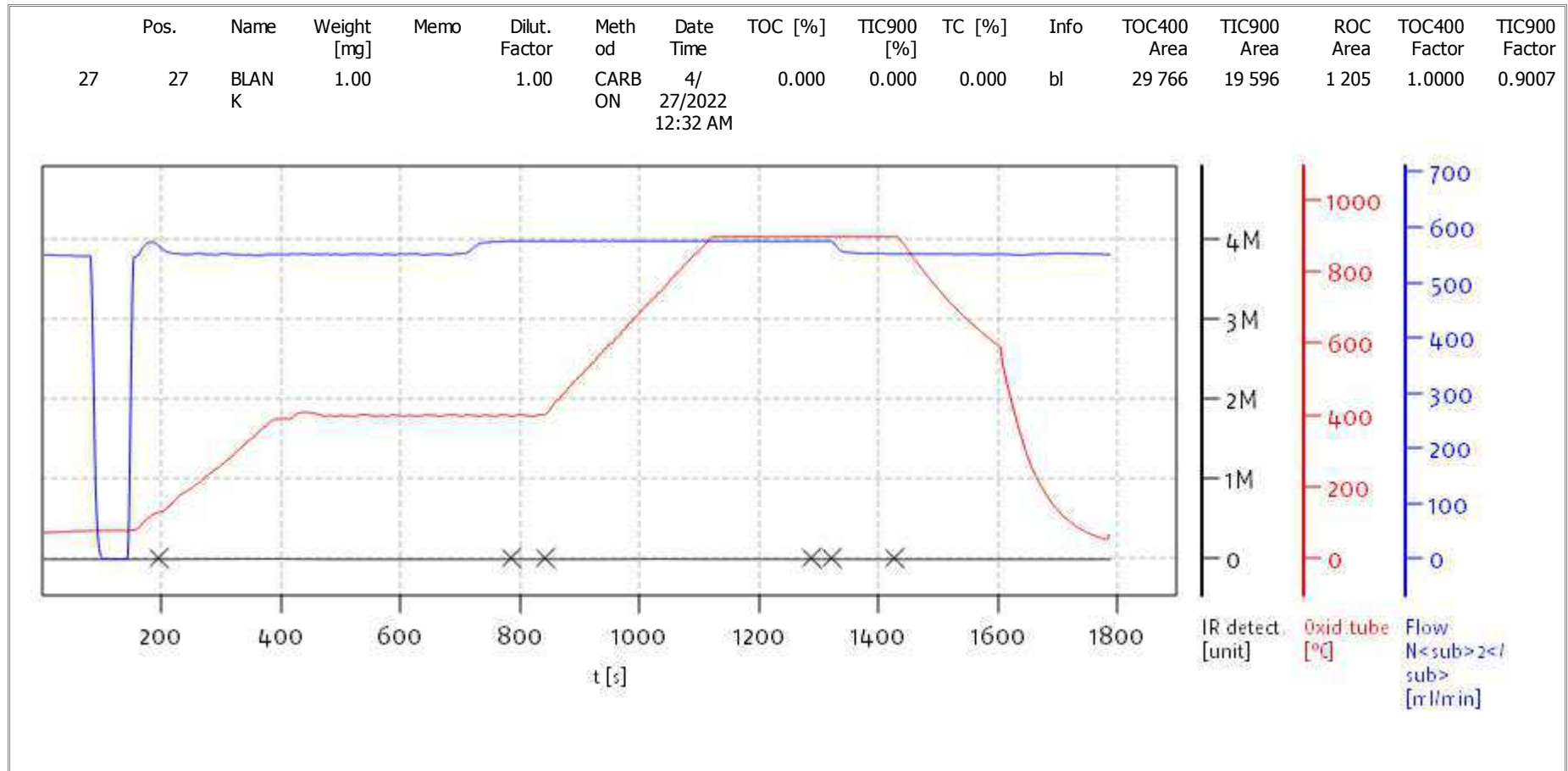
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Soli TOC Cube, Carbon
Balance: BAL3
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Name:

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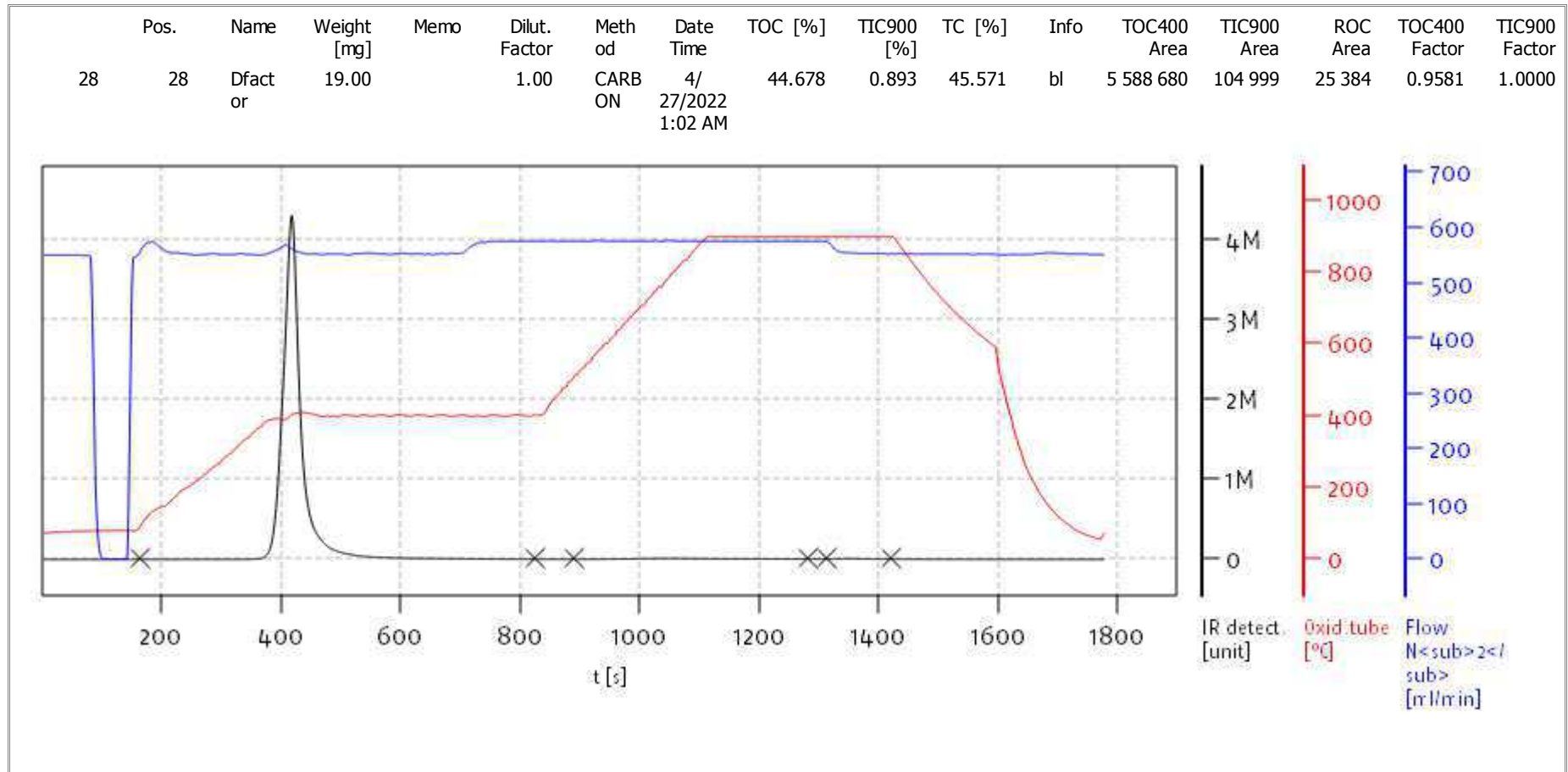
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Soli TOC Cube, Carbon
Balance: BAL3
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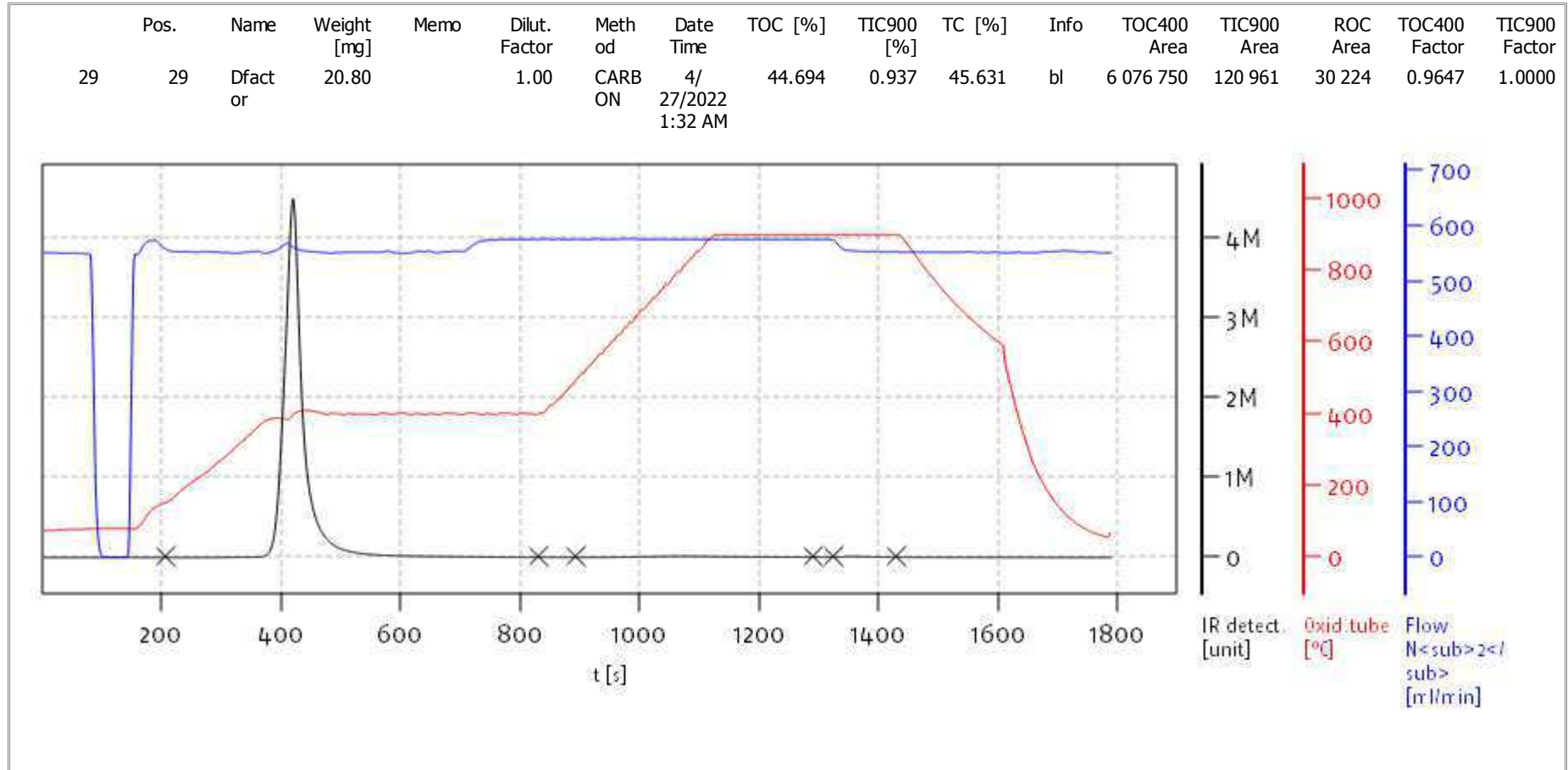
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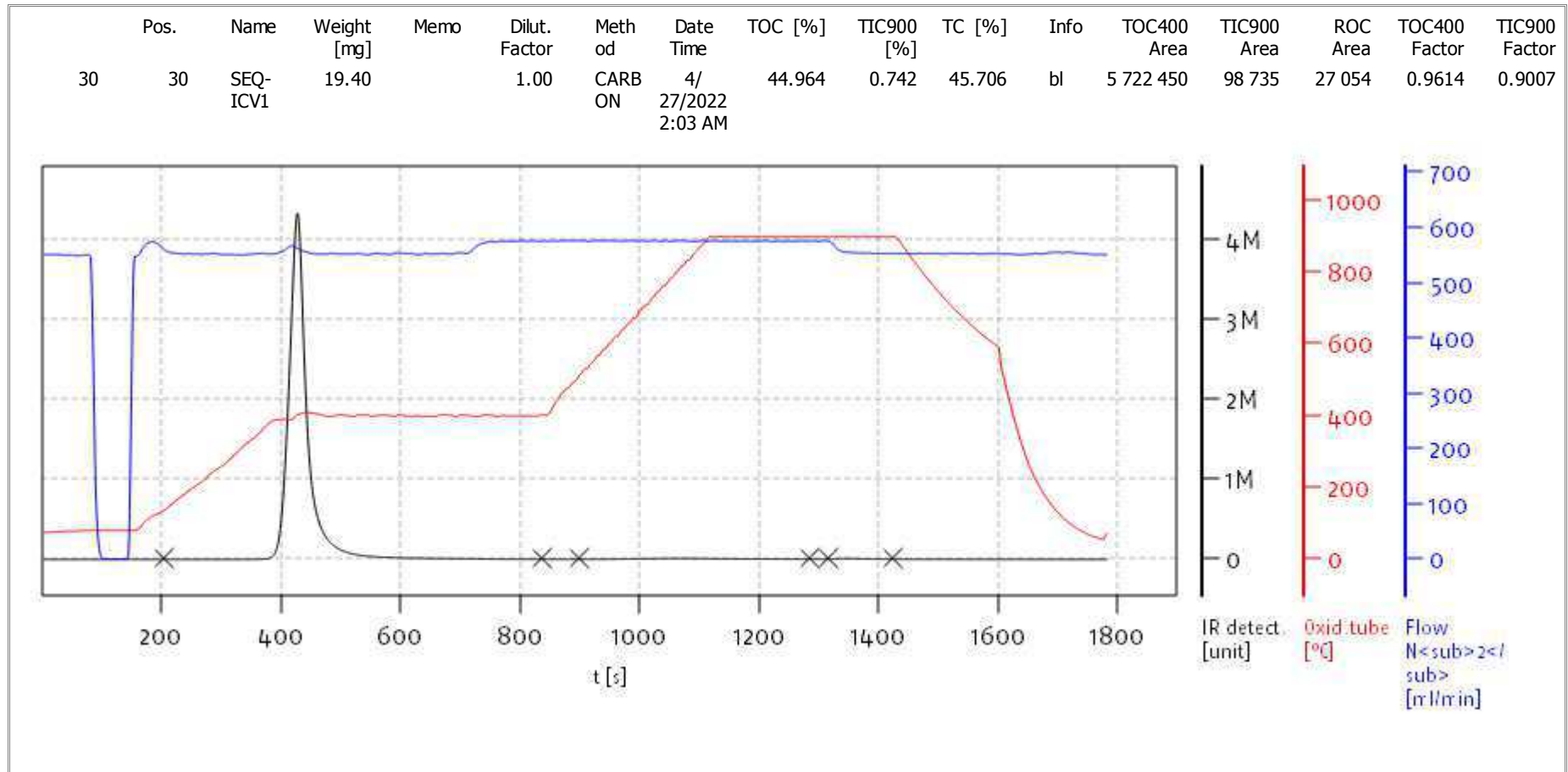
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solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

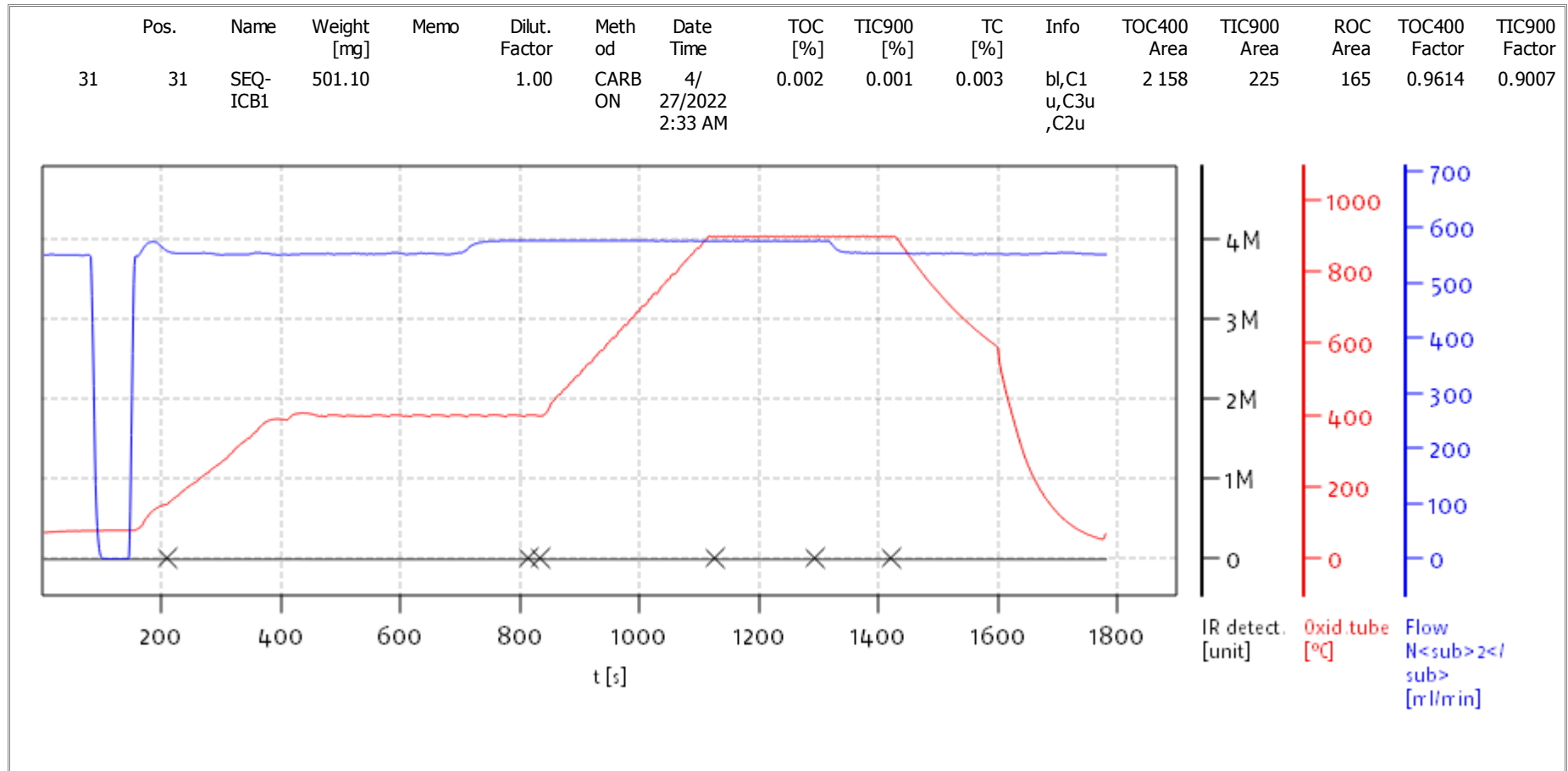
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

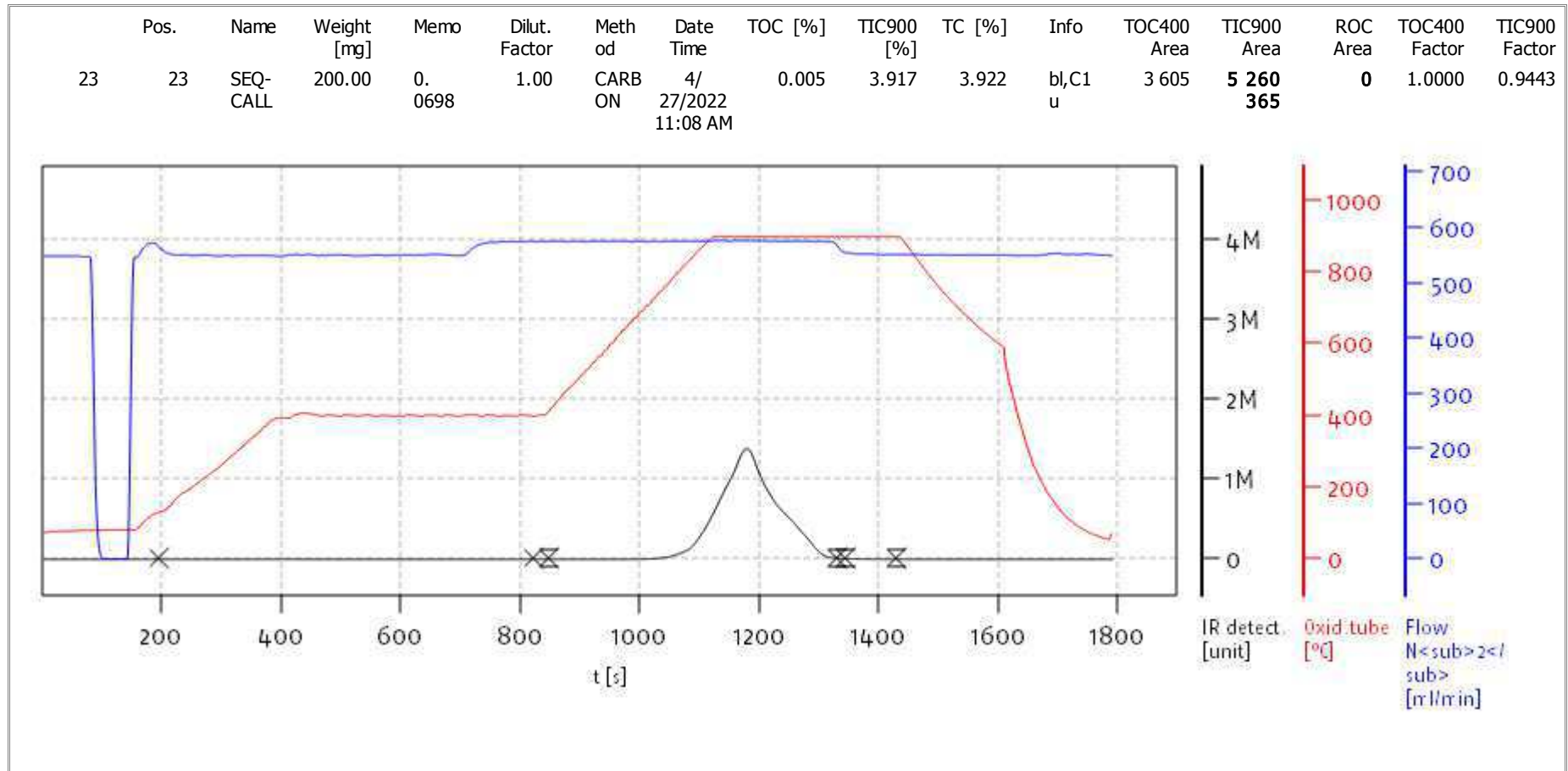
Date: Wed Apr 27 11:07:12 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

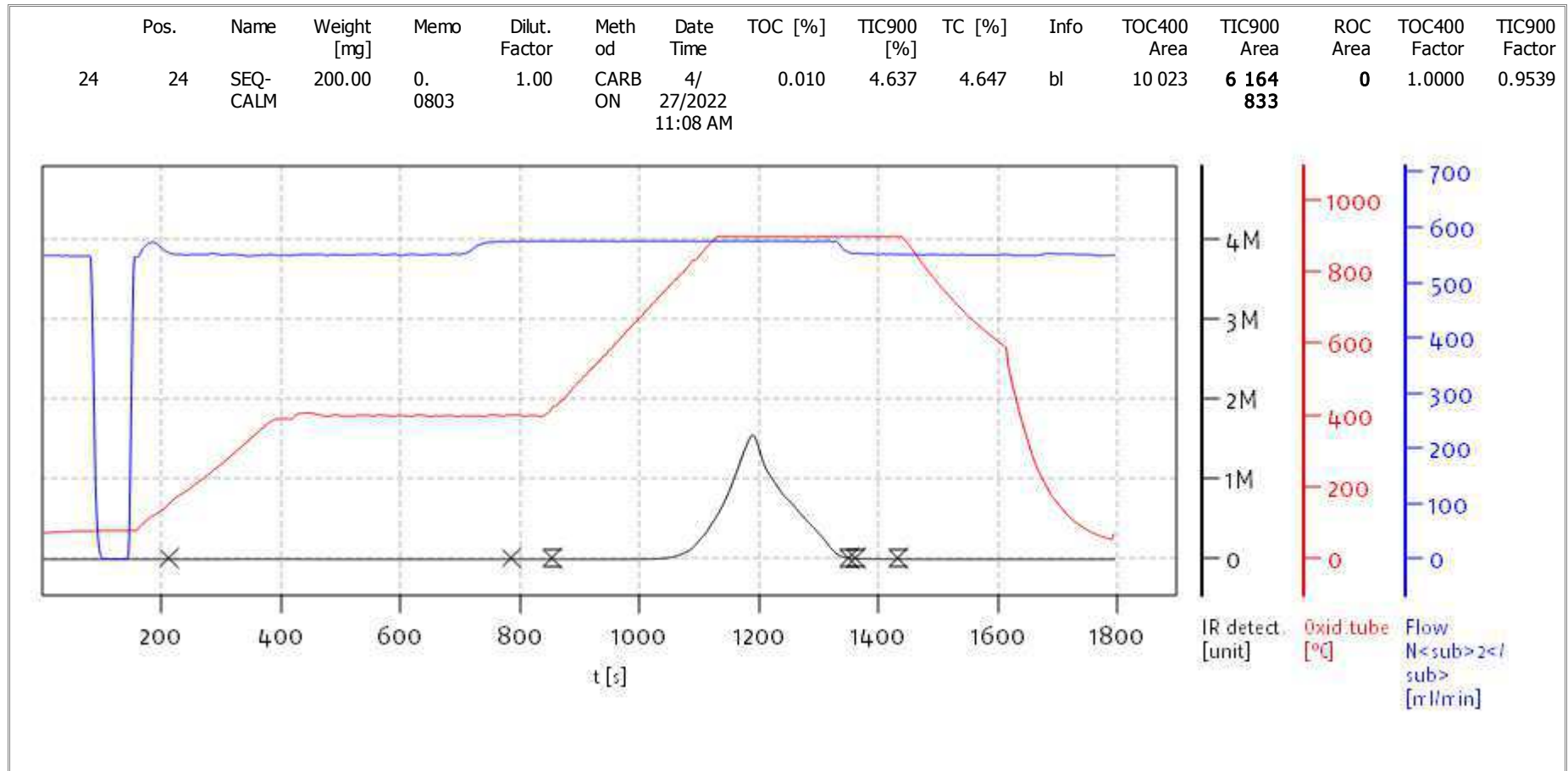
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

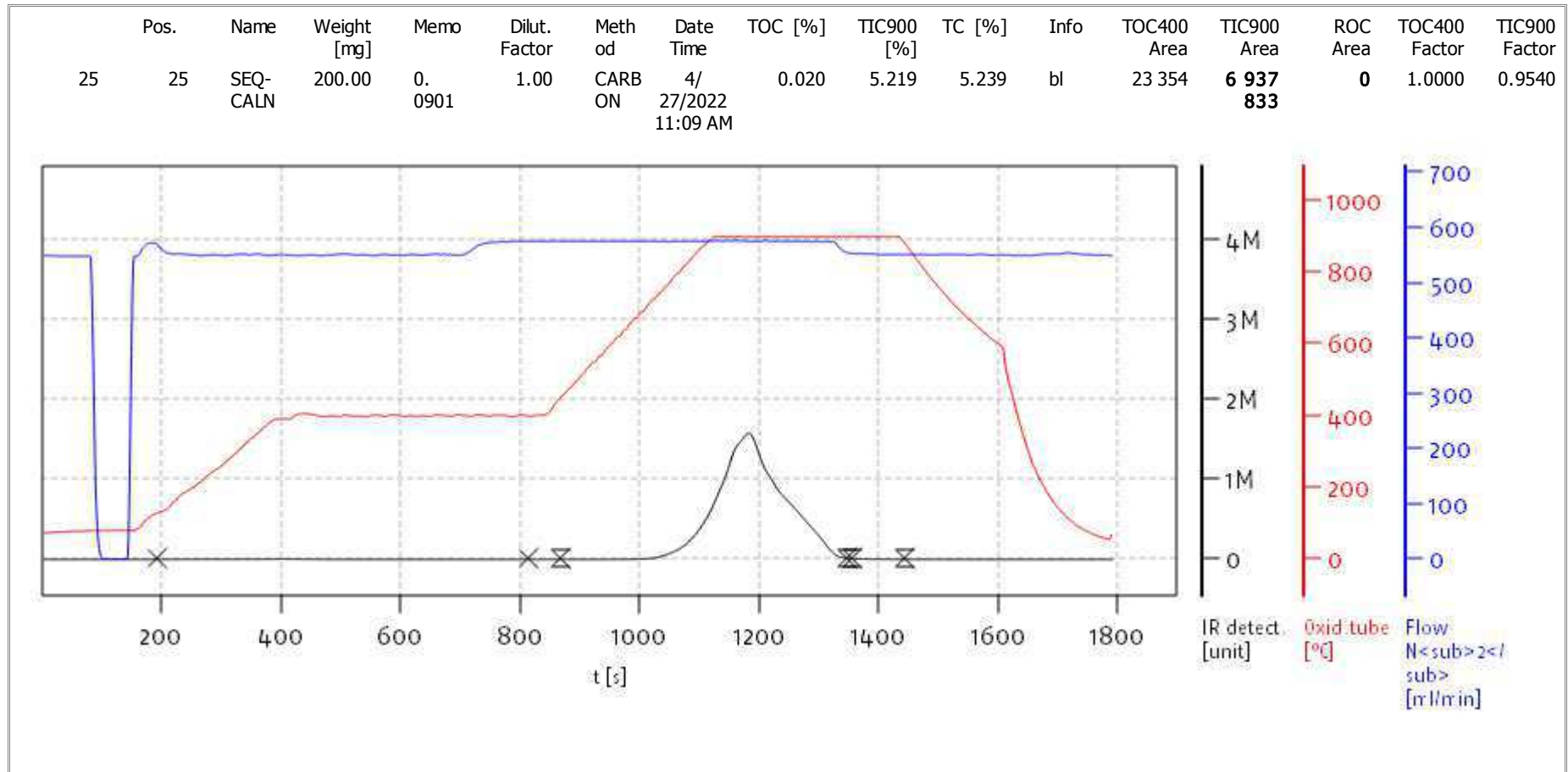
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

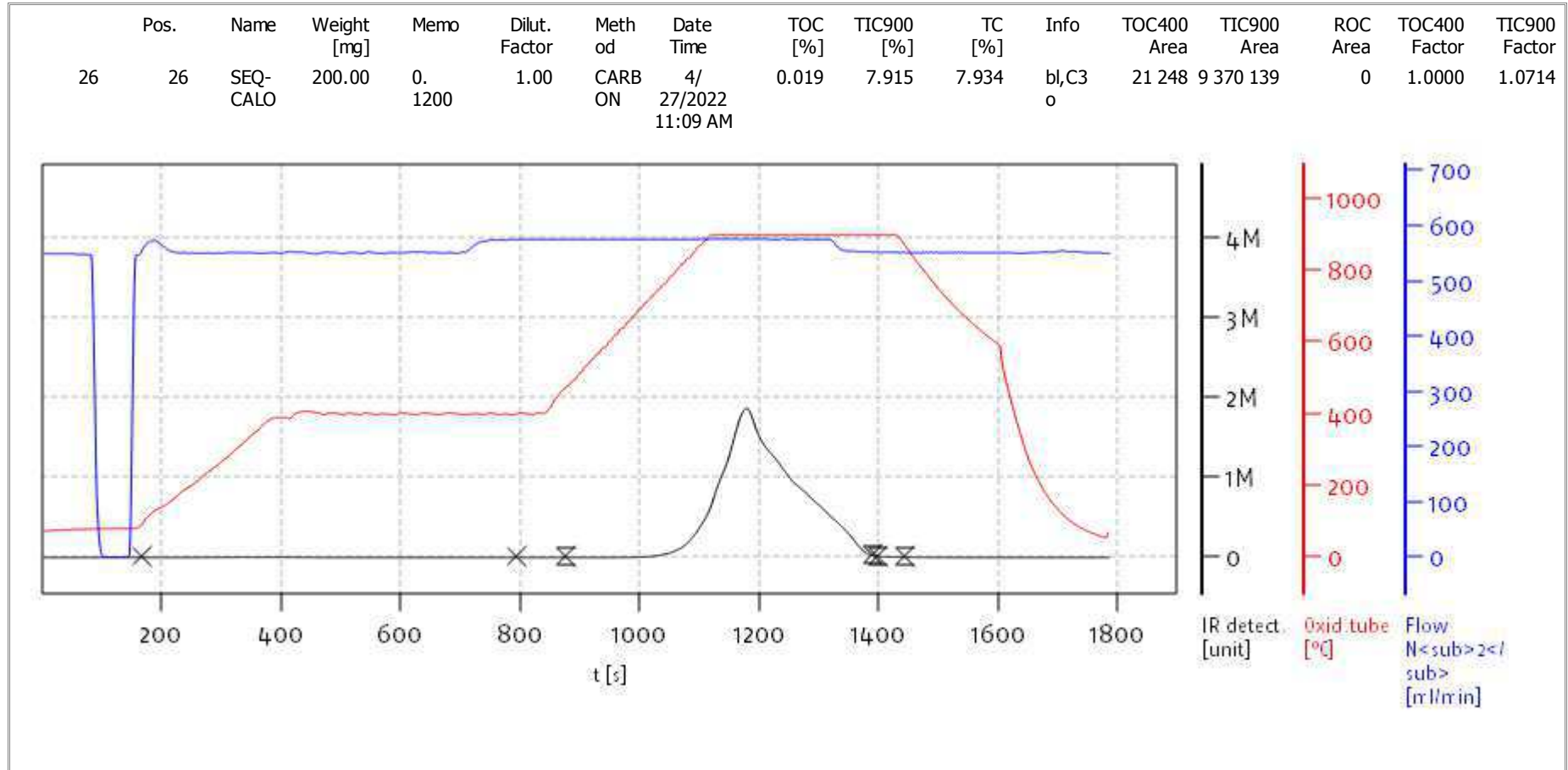
Date: Wed Apr 27 11:10:16 2022



solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC



Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:10:16 2022

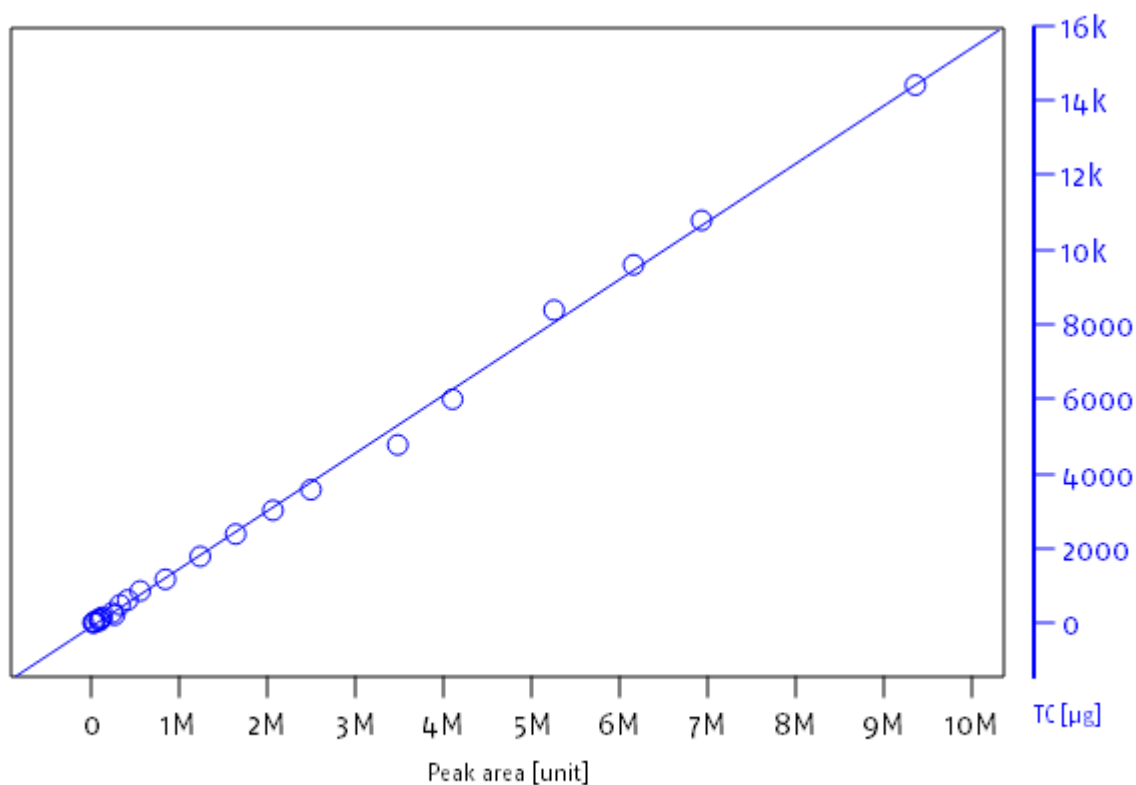


solITOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



Name:

Access: solITOC superuser

Date: Wed Apr 27 11:19:56 2022



solITOC V2.0.2 (31015f9) 2018-11-19
 Serial No: 0300.181017
 Mode CCC



Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SKD0371

Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: TOC Cube

Calibration: FD00070

Sequence: SKL0152

Date Analyzed: 12/12/22 11:15

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0152-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB5	Total Organic Carbon	0.003	0.02	0.02	%	
SKL0152-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBC	Total Organic Carbon	0.002	0.02	0.02	%	
SKL0152-CCBD	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBF	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0152-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits



**INITIAL AND CONTINUING
CALIBRATION CHECK
EPA 9060A m**

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Instrument ID: TOC Cube

Calibration: FD00070

Control Limit: +/- 10.00%

Sequence: SKL0152

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0152-ICV1	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0152-CCV1	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0152-CCV2	Total Organic Carbon	44.446	44.6	100	%	EPA 9060A m
SKL0152-CCV3	Total Organic Carbon	44.446	44.1	99.1	%	EPA 9060A m
SKL0152-CCV4	Total Organic Carbon	44.446	43.0	96.8	%	EPA 9060A m
SKL0152-CCV5	Total Organic Carbon	44.446	43.0	96.7	%	EPA 9060A m
SKL0152-CCV6	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0152-CCV7	Total Organic Carbon	44.446	43.1	97.1	%	EPA 9060A m
SKL0152-CCV8	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SKL0152-CCV9	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0152-CCVA	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SKL0152-CCVB	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0152-CCVC	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m
SKL0152-CCVD	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m
SKL0152-CCVE	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
SKL0152-CCVF	Total Organic Carbon	44.446	45.6	103	%	EPA 9060A m
SKL0152-CCVG	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m

* Values outside of QC limits



STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0237-SRM1

Batch: BKL0237

Initial/Final: 0.2934 g / 0.2934 g

Preparation: Plumb 1981

Analyzed: 12/12/2022 13:16

Standard ID: K003456

Expires: 12/12/2079

Standard Lot#: NA

Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.97	0.02	0.02		99.2	80 - 120

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS773 22L0104-01	12/02/22 07:10	12/05/22 17:00	12/10/22 10:00	8	14	12/12/22 16:18			
LDW22-SS774 22L0104-02	12/02/22 07:20	12/05/22 17:00	12/10/22 10:00	8	14	12/12/22 18:49			
Duplicate BKL0237-DUP2	12/02/22 07:10	12/05/22 17:00	12/10/22 10:00	8	14	12/12/22 17:49			
Matrix Spike BKL0237-MS2	12/02/22 07:10	12/05/22 17:00	12/10/22 10:00	8	14	12/12/22 18:19			

* Indicates hold time exceedance.



**METHOD DETECTION
AND REPORTING LIMITS**

EPA 9060A m

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%



National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of SRM 1941b is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS⁽¹⁾

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 µm (100 % passing), homogenized in a cone blender, radiation sterilized (⁶⁰Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a -10 °C shelf temperature and a -50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

⁽¹⁾ Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards and Technology.

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH₂, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C₁₈) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM, 1,1,1-trichloroethane, and hexane.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-*d*₄, 4,4'-DDE-*d*₈, 4,4'-DD-*d*₈, and 4,4'-DDT-*d*₈ were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions ^(a) ($\mu\text{g}/\text{kg}$)	
Naphthalene ^(b,c,d,e,f,g)	848	$\pm 95^{(h)}$
Fluorene ^(b,c,d,e,f,g)	85	$\pm 15^{(h)}$
Phenanthrene ^(b,c,d,e,f,g)	406	$\pm 44^{(h)}$
Anthracene ^(b,c,d,e,f,g)	184	$\pm 18^{(h)}$
3-Methylphenanthrene ^(b,c,d)	105	$\pm 13^{(h)}$
2-Methylphenanthrene ^(b,c,d)	128	$\pm 14^{(h)}$
1-Methylphenanthrene ^(b,c,d,g)	73.2	$\pm 5.9^{(h)}$
Fluoranthene ^(b,c,d,e,f,g)	651	$\pm 50^{(h)}$
Pyrene ^(b,c,d,e,f,g)	581	$\pm 39^{(h)}$
Benz[<i>a</i>]anthracene ^(b,c,d,e,f,g)	335	$\pm 25^{(h)}$
Chrysene ^(d,f)	291	$\pm 31^{(h)}$
Triphenylene ^(d,f)	108	$\pm 5^{(i)}$
Benzo[<i>b</i>]fluoranthene ^(c,e)	453	$\pm 21^{(h)}$
Benzo[<i>k</i>]fluoranthene ^(b,c,d,e)	225	$\pm 18^{(h)}$
Benzo[<i>e</i>]pyrene ^(b,c,d,g)	325	$\pm 25^{(h)}$
Benzo[<i>a</i>]pyrene ^(b,c,d,f,g)	358	$\pm 17^{(h)}$
Perylene ^(b,c,d,f,g)	397	$\pm 45^{(h)}$
Benzo[<i>ghi</i>]perylene ^(b,c,d,f,g)	307	$\pm 45^{(h)}$
Indeno[1,2,3- <i>cd</i>]pyrene ^(b,c,d,f,g)	341	$\pm 57^{(h)}$
Dibenz[<i>a,j</i>]anthracene ^(b,c,d,f)	48.9	$\pm 4.6^{(h)}$
Dibenz[<i>a,c</i>]anthracene ^(c,f)	36.7	$\pm 5.2^{(h)}$
Dibenz[<i>a,h</i>]anthracene ^(c,f)	53	$\pm 10^{(h)}$
Benzo[<i>b</i>]chrysene ^(b,c,d,f)	53	$\pm 12^{(h)}$
Picene ^(b,c,d)	46.6	$\pm 4.7^{(h)}$

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(c) GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(d) GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(e) LC-FL (total) of total PAH fraction after PFE with DCM.

^(f) LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.

^(g) 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.

^(h) Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

⁽ⁱ⁾ The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners^(a) in SRM 1941b

PCB Congeners		Mass Fractions ^(b) ($\mu\text{g}/\text{kg}$)
PCB	8 (2,4'-Dichlorobiphenyl) ^(c,d,e,f,g)	1.65 \pm 0.19 ^(h)
PCB	18 (2,2',5-Trichlorobiphenyl) ^(c,d,e,f,g)	2.39 \pm 0.29 ^(h)
PCB	28 (2,4,4'-Trichlorobiphenyl) ^(c,d,e,f,g)	4.52 \pm 0.57 ^(h)
PCB	31 (2,4',5-Trichlorobiphenyl) ^(c,e,f)	3.18 \pm 0.41 ^(h)
PCB	44 (2,2'3,5'-Tetrachlorobiphenyl) ^(c,d,e,f,g)	3.85 \pm 0.20 ⁽ⁱ⁾
PCB	49 (2,2'4,5'-Tetrachlorobiphenyl) ^(c,d,e,f)	4.34 \pm 0.28 ⁽ⁱ⁾
PCB	52 (2,2',5,5'-Tetrachlorobiphenyl) ^(c,d,e,f,g)	5.24 \pm 0.28 ⁽ⁱ⁾
PCB	66 (2,3',4,4'-Tetrachlorobiphenyl) ^(c,e,f,g,j)	4.96 \pm 0.53 ⁽ⁱ⁾
PCB	87 (2,2',3,4,5'-Pentachlorobiphenyl) ^(c,d,f,j)	1.14 \pm 0.16 ^(h)
PCB	95 (2,2',3,5',6-Pentachlorobiphenyl) ^(c,e,f,g)	3.93 \pm 0.62 ⁽ⁱ⁾
PCB	99 (2,2',4,4',5-Pentachlorobiphenyl) ^(c,d,e,f,g)	2.90 \pm 0.36 ⁽ⁱ⁾
PCB	101 (2,2',4,5,5'-Pentachlorobiphenyl) ^(c,e,f,g,j)	5.11 \pm 0.34 ⁽ⁱ⁾
PCB	105 (2,3,3',4,4'-Pentachlorobiphenyl) ^(c,d,e,f,g,j)	1.43 \pm 0.10 ⁽ⁱ⁾
PCB	110 (2,3,3',4',6-Pentachlorobiphenyl) ^(c,e,f,j)	4.62 \pm 0.36 ⁽ⁱ⁾
PCB	118 (2,3',4,4',5-Pentachlorobiphenyl) ^(c,d,e,f,g,j)	4.23 \pm 0.19 ⁽ⁱ⁾
PCB	128 (2,2',3,3',4,4'-Hexachlorobiphenyl) ^(c,d,e,f,g,j)	0.696 \pm 0.044 ⁽ⁱ⁾
PCB	138 (2,2',3,4,4',5'-Hexachlorobiphenyl) ^(c,e,f,j)	3.60 \pm 0.28 ⁽ⁱ⁾
PCB	149 (2,2',3,4',5,6-Hexachlorobiphenyl) ^(c,d,e,j)	4.35 \pm 0.26 ^(h)
PCB	153 (2,2',4,4',5,5'-Hexachlorobiphenyl) ^(c,d,e,f,g,j)	5.47 \pm 0.32 ⁽ⁱ⁾
PCB	156 (2,3,3',4,4',5-Hexachlorobiphenyl) ^(c,d,e,f,j)	0.507 \pm 0.090 ^(h)
PCB	170 (2,2',3,3',4,4',5-Heptachlorobiphenyl) ^(c,d,e,f,g,j)	1.35 \pm 0.09 ⁽ⁱ⁾
PCB	180 (2,2',3,4,4',5,5'-Heptachlorobiphenyl) ^(c,d,e,f,g,j)	3.24 \pm 0.51 ⁽ⁱ⁾
PCB	183 (2,2',3,4,4',5,6-Heptachlorobiphenyl) ^(c,d,e,j)	0.979 \pm 0.087 ^(h)
PCB	187 (2,2',3,4',5,5',6-Heptachlorobiphenyl) ^(c,d,e,f,g,j)	2.17 \pm 0.22 ⁽ⁱ⁾
PCB	194 (2,2',3,3',4,4',5,5'-Octachlorobiphenyl) ^(c,d,e,j)	1.04 \pm 0.06 ^(h)
PCB	195 (2,2',3,3',4,4',5,6-Octachlorobiphenyl) ^(c,e,g,j)	0.645 \pm 0.060 ⁽ⁱ⁾
PCB	201 (2,2',3,3',4,5',6,6'-Octachlorobiphenyl) ^(c,e,j)	0.777 \pm 0.034 ^(h)
PCB	206 (2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl) ^(c,e,f,g,j)	2.42 \pm 0.19 ⁽ⁱ⁾
PCB	209 Decachlorobiphenyl ^(c,d,e,f,g,j)	4.86 \pm 0.45 ⁽ⁱ⁾

^(a) PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

^(b) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(c) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(d) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(e) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(f) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(g) 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

^(h) Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

⁽ⁱ⁾ Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(j) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions ^(a) ($\mu\text{g}/\text{kg}$)
Hexachlorobenzene ^(b,c,d,e)	5.83 \pm 0.38 ^(f)
<i>cis</i> -Chlordane ^(b,c,d,e,g)	0.85 \pm 0.11 ^(h)
<i>trans</i> -Chlordane ^(b,c,e)	0.566 \pm 0.093 ^(f)
<i>cis</i> -Nonachlor ^(b,e,g)	0.378 \pm 0.053 ^(h)
<i>trans</i> -Nonachlor ^(b,c,d,e,g)	0.438 \pm 0.073 ^(f)
4,4'-DDE ^(b,d,e,g)	3.22 \pm 0.28 ^(h)
4,4'-DDD ^(b,d,e,g)	4.66 \pm 0.46 ^(h)

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(c) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(d) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(e) 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.

^(f) Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(g) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(h) Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions ^(a)		
	(µg/kg)		
1-Methylnaphthalene ^(b,c,d,e)	127	±	14 ^(f)
2-Methylnaphthalene ^(b,c,d,e)	276	±	53 ^(f)
2,6-Dimethylnaphthalene ^(b,c,d,e)	75.9	±	4.5 ^(f)
2,3,5-Trimethylnaphthalene ^(b,c,d,e)	25.5	±	5.1 ^(f)
Biphenyl ^(b,c,d,e)	74.0	±	8.0 ^(f)
Acenaphthylene ^(b,c,d,e)	53.3	±	6.4 ^(f)
Acenaphthene ^(b,c,d,e)	38.4	±	5.2 ^(f)
9-Methylphenanthrene ^(c)	63.5	±	2.5 ^(g)
4-Methylphenanthrene and 9-Methylphenanthrene ^(b,d)	80.1	±	4.8 ^(f)
2-Methylanthracene ^(c,d)	36	±	15 ^(f)
8-Methylfluoranthene ^(b)	49.5	±	2.7 ^(g)
7-Methylfluoranthene ^(b)	45.4	±	1.5 ^(g)
1-Methylfluoranthene ^(b)	42.4	±	2.1 ^(g)
3-Methylfluoranthene ^(b)	28.8	±	1.3 ^(g)
2-Methylpyrene ^(b)	78.7	±	4.0 ^(g)
4-Methylpyrene ^(b)	66.4	±	2.6 ^(g)
1-Methylpyrene ^(b)	52.5	±	2.3 ^(g)
Acephenanthrene ^(d)	30.5	±	1.9 ^(g)
Benzo[<i>c</i>]phenanthrene ^(b,c,d)	58	±	15 ^(f)
Benzo[<i>a</i>]fluoranthene ^(b,c,d)	73	±	18 ^(f)
Benzo[<i>j</i>]fluoranthene ^(c)	217	±	5 ^(g)
Indeno[1,2,3- <i>cd</i>]fluoranthene ^(d)	9.63	±	0.34 ^(g)
Pentaphene ^(d)	25.3	±	1.0 ^(g)

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(c) GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

^(d) GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(e) 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

^(f) Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(g) Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions ^(a,b,c) ($\mu\text{g}/\text{kg}$)
Coronene	72.6 \pm 4.7
Dibenzo[<i>b,e</i>]fluoranthene	10.3 \pm 0.3
Naphtho[1,2- <i>b</i>]fluoranthene	91.0 \pm 3.1
Naphtho[1,2- <i>k</i>]fluoranthene and Naphtho[2,3- <i>j</i>]fluoranthene	79.8 \pm 2.5
Naphtho[2,3- <i>b</i>]fluoranthene	23.5 \pm 0.3
Dibenzo[<i>b,k</i>]fluoranthene	95.6 \pm 3.1
Dibenzo[<i>a,k</i>]fluoranthene	26.6 \pm 0.4
Dibenzo[<i>j,l</i>]fluoranthene	63.8 \pm 1.8
Dibenzo[<i>a,l</i>]pyrene	11.1 \pm 1.0
Naphtho[2,3- <i>k</i>]fluoranthene	10.7 \pm 0.6
Naphtho[1,2- <i>a</i>]pyrene	16.7 \pm 1.4
Naphtho[2,3- <i>e</i>]pyrene	33.2 \pm 2.3
Dibenzo[<i>a,e</i>]pyrene	76.1 \pm 3.6
Naphtho[2,1- <i>a</i>]pyrene	59.2 \pm 1.8
Dibenzo[<i>e,i</i>]pyrene	35.0 \pm 2.4
Naphtho[2,3- <i>a</i>]pyrene	16.5 \pm 0.6
Benzo[<i>b</i>]perylene	38.2 \pm 1.2
Dibenzo[<i>a,i</i>]pyrene	25.5 \pm 1.0
Dibenzo[<i>a,h</i>]pyrene	6.94 \pm 0.29

^(a) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicated. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(c) GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners^(a) in SRM 1941b

PCB Congeners			Mass Fractions ^(b,c) ($\mu\text{g}/\text{kg}$)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl) ^(d,e)	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl) ^(d,f,g)	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl) ^(e,f,g)	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl) ^(e,f,g)	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl) ^(e,f,g)	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl) ^(h)	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl) ^(d,e,f,g)	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl) ^(d,f,g)	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl) ^(e,f,g)	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl) ^(d,e,f,g)	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl) ^(e,f,g)	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl) ^(d,e,f,g)	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl) ^(d,e,f,g)	0.292	±	0.075

^(a) PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

^(b) Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(c) For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k , is determined from the Student's t -distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

^(d) GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

^(e) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(f) GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

^(g) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(h) GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions ^(a,b) ($\mu\text{g}/\text{kg}$)
2,4'-DDE ^(c,d)	0.38 \pm 0.12
4,4'-DDT ^(e,f)	1.12 \pm 0.42

^(a) Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

^(b) The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

^(c) GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

^(d) GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

^(e) GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

^(f) 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction ^(a,b) ($\mu\text{g}/\text{kg}$)
C2-decalins	18 \pm 5
C4-decalins	41 \pm 4
C2-naphthalenes	187 \pm 53
C3-naphthalenes	158 \pm 42
C1-benzothiophenes	25 \pm 14
C2-benzothiophenes	20 \pm 11
C3-benzothiophenes	22 \pm 13
C4-benzothiophenes	18 \pm 5
C1-fluorenes	57 \pm 18
C2-fluorenes	122 \pm 43
C3-fluorenes	128 \pm 31
C1-phenanthrenes/anthracenes	313 \pm 99
C2-phenanthrenes/anthracenes	247 \pm 62
C3-phenanthrenes/anthracenes	165 \pm 46
C4-phenanthrenes/anthracenes	87 \pm 36
C1-dibenzothiophenes	54 \pm 13
C2-dibenzothiophenes	91 \pm 18
C3-dibenzothiophenes	84 \pm 15
C4-dibenzothiophenes	57 \pm 13
C1-fluoranthenes/pyrenes	252 \pm 48
C2-fluoranthenes/pyrenes	205 \pm 38
C3-fluoranthenes/pyrenes	102 \pm 22
C4-fluoranthenes/pyrenes	121 \pm 59
C1-benzanthracenes/chrysenes/triphenylenes	208 \pm 43
C2-benzanthracenes/chrysenes/triphenylenes	120 \pm 24
C3-benzanthracenes/chrysenes/triphenylenes	73 \pm 31
C4-benzanthracenes/chrysenes/triphenylenes	41 \pm 11

^(a) The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.

^(b) Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction ^(a,b) (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

- ^(a) The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U , is calculated as $U = k u_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
- ^(b) Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 % ^(a,b)
----------------------------	----------------------------------

- ^(a) Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
- ^(b) The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicated. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions ^(a) (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

- ^(a) Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at <http://www.nist.gov/srm>.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigaciones Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axy's Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA



Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. SUBSTANCE AND SOURCE IDENTIFICATION

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: <http://www.nist.gov/srm>

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. HAZARDS IDENTIFICATION

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements

Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. COMPOSITION AND INFORMATION ON HAZARDOUS INGREDIENTS

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration
Marine Sediment	Not available	Not available	22L0104 CLPLIKE (Rev 1) - Page 2123 of 2143 100

4. FIRST AID MEASURES

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:

Suitable: Use extinguishing media appropriate for surrounding fire.

Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1

Fire = 0

Reactivity = 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. HANDLING AND STORAGE

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m³ (TWA, total particulates not otherwise regulated)

OSHA (PEL) 5 mg/m³ (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m³ (TWA, total particulates not otherwise regulated, 8 h)

NIOSH (REL): 5 mg/m³ (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: Inhalation Skin Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen Yes No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH: No.
CHRONIC HEALTH: No.
FIRE: No.
REACTIVE: No.
PRESSURE: No.

State Regulations:

California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:

WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

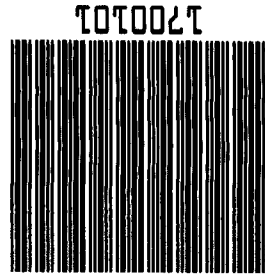
Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at <http://www.cdc.gov/niosh/npg/npgd0480.html> (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the Internet at <http://www.nist.gov/srm>.



Weight	
# of pieces	
Packed by	
Picked by	

9/21/16 04:04 PM

NOT FOR HUMAN CONSUMPTION,
LABORATORY USE ONLY.

1 / EACH

Organics in Marine Sediment

Total qty:

1941B

0 EACH

0

1 EACH

1

1 EACH

1

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
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Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

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Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: (C₆H₁₀O₅)_n

CAS #: 9004-34-6

Physical Description: White Powder

Formula Weight: N/A

Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh	Wt %	
+60 mesh	<8%	<1%
+200 mesh	>45%	55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822

Microcrystalline Cellulose Powder (TOC)

Expires 11/30/2022

Prepared By Casey English 2/22/2019

Identification A & B: Passes

Bulk Density: 0.29 g/ml

Bulk Density (graduated cylinder): 0.31 g/ml

Conductivity: 18 µS/cm

Starch: Negative

Ether Soluble Substances: 0.01%

Total Aerobic microbial Count: 100 cfu/g

Total Mold and Yeast Count: 20 cfu/g

Staphylococcus aureus: Absent/1 g


Pseudomonas aeruginosa: Absent/1 g

E. coli: Absent/1 g

Salmonella: Absent/10 g

Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um
TUP: <9/600 cm²
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022



07/26/2018 - John Huang, PhD
MP Biomedicals, LLC.
Quality Control Manager

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MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: (C₆H₁₀O₅)_n
CAS #: 9004-34-6
Physical Description: White Powder

Formula Weight: N/A
Storage: 15 - 30°C


Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh	Wt %	
+60 mesh	<8%	<1%
+200 mesh	>45%	55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822

Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um
TUP: <9/600 cm²
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022



07/26/2018 - John Huang, PhD
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Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: (C₆H₁₀O₅)_n

CAS #: 9004-34-6

Physical Description: White Powder

Formula Weight: N/A

Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh	Wt %	
+60 mesh	<8%	<1%
+200 mesh	>45%	55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822

Microcrystalline Cellulose Powder (TOC)

Expires 11/30/2022

Prepared By Casey English 2/22/2019

Identification A & B: Passes

Bulk Density: 0.29 g/ml

Bulk Density (graduated cylinder): 0.31 g/ml

Conductivity: 18 µS/cm

Starch: Negative

Ether Soluble Substances: 0.01%

Total Aerobic microbial Count: 100 cfu/g

Total Mold and Yeast Count: 20 cfu/g

Staphylococcus aureus: Absent/1 g


Pseudomonas aeruginosa: Absent/1 g

E. coli: Absent/1 g

Salmonella: Absent/10 g

Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um
TUP: <9/600 cm²
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022



07/26/2018 - John Huang, PhD
MP Biomedicals, LLC.
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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS773

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Sediment Laboratory ID: 22L0104-01 C SDG: 22L0104

Sampled: 12/02/22 07:10 Prepared: 12/06/22 14:09 File ID:

% Solids: 48.06 Preparation: No Prep Wet Chem Analyzed: 12/06/22 14:12

Batch: BKL0134 Sequence:

Instrument: BAL2 Calibration: 5 g Wet / 5 g

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	48.06	1	0.04	0.04	



Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SS774

Laboratory: Analytical Resources, LLC

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Sediment Laboratory ID: 22L0104-02 C SDG: 22L0104

Sampled: 12/02/22 07:20 Prepared: 12/06/22 14:09 File ID:

% Solids: 92.54 Preparation: No Prep Wet Chem Analyzed: 12/06/22 14:12

Batch: BKL0134 Sequence: Initial/Final: 5 g Wet / 5 g

Instrument: BAL2 Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	92.54	1	0.04	0.04	



PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0104
Client: Anchor QEA, LLC Project: AOC4 UR Phase 3
Batch: BKL0134 Batch Matrix: Solid Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SS773	22L0104-01		12/06/22 14:09	
LDW22-SS774	22L0104-02		12/06/22 14:09	
Blank	BKL0134-BLK1		12/06/22 14:09	
LDW22-SS773	BKL0134-DUP1		12/06/22 14:09	
LDW22-SS773	BKL0134-DUP2		12/06/22 14:09	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples													Batch: BKL0134								
Method: PSEP 1986, SM2540, EPA 160.1													Date: 12/6/2022 14:12								
(dry at 104 (12-24 hr) then combust at 550 (30 min))													Analyst: UW								
Instrumentation			Drying Ovens: 1			Analytical Balance: BAL2			Muffle Furnace: 2												
Batch drying time			TS (%) calculated as:			Oven Temps, °C			TVS (mg/kg dry wt) calculated as:												
record times as mm/dd/yy hh:mm			Final dry wt (g) = (Dry Wt - Tare Wt)			Start Temp 84			Final ash wt (g) = (min ash wt - tare wt)												
date/time in oven: 12/6/2022 15:00			TS = (Final Dry Wt)/(grams Sample-Tare)			Dry Cycle 1 89			TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000												
date/time out: 12/7/2022 8:35						Dry Cycle 2			if ash wt > dry wt, "Chk for Err"												
elapsed hrs = 17.6 OK						Dry Cycle 3			if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000												
Balance Calibration Check																					
Record weights to 4 places													CV-02			CV-02			CV-02		
Cal Weight ID: CV-02			CV-02			CV-02			CV-02			CV-02									
Date & Time: 12/6/22 14:00			12/6/22 14:20			12/7/22 9:20															
Cal Wt (g): 10.0000			9.9999			10.0000															
Cal OK!			Cal OK!			Cal OK!															
Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams)			dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams)			Ash Wt (g)	TVS		Notes					
				1	2	3				1	2	3		(mg/kg)	(%)						
BKL0134-BLK1	1	0.8310	0.0000	0.8304			-0.0006	0.07%													
22L0104-01	2	0.8167	5.6444	3.1367			2.3200	48.06%													
BKL0134-DUP1	3	0.7796	5.0824	2.7858			2.0062	46.63%	RPD=3												
BKL0134-DUP2	4	0.7961	4.8796	2.6700			1.8739	45.89%	RSD=2.4												
22L0104-02	5	0.8133	6.6920	6.2537			5.4404	92.54%													
22L0105-01	6	0.8253	6.8159	3.2126			2.3873	39.85%													
22L0105-02	7	0.8088	7.4235	3.8887			3.0799	46.56%													
22L0105-03	8	0.8100	9.9675	6.2183			5.4083	59.06%													
22L0105-04	9	0.8267	9.6429	6.7372			5.9105	67.04%													
22L0105-05	10	0.8188	7.5336	5.7020			4.8832	72.72%													
22L0105-06	11	0.8221	7.6478	4.5793			3.7572	55.04%													
22L0105-07	12	0.8318	6.9452	4.1249			3.2931	53.87%													
22L0105-08	13	0.8149	6.8098	4.0355			3.2206	53.72%													
22L0105-09	14	0.7663	7.7060	4.5304			3.7641	54.24%													
22L0105-10	15	0.7992	8.1863	5.1401			4.3409	58.76%													
22L0105-11	16	0.8141	7.2814	4.5342			3.7201	57.52%													
22L0105-12	17	0.8127	7.3365	4.5475			3.7348	57.25%													
22L0105-13	18	0.8374	7.1220	4.5137			3.6763	58.50%													
22L0105-14	19	0.8411	7.1755	4.4608			3.6197	57.14%													
22L0105-15	20	0.8279	7.8547	5.0786			4.2507	60.49%													
22L0105-16	21	0.8319	7.7179	5.0574			4.2255	61.36%													
22L0105-17	22	0.7974	7.6302	4.6672			3.8698	56.64%													
22L0105-18	23	0.7786	7.2293	4.6785			3.8999	60.46%													



Form I
METHOD BLANK DATA SHEET
SM 2540 G-97
TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Batch: BKL0134

Laboratory ID: BKL0134-BLK1

Prepared: 12/06/22 14:09

Matrix: Solid

Preparation: No Prep Wet Chem

Analyzed: 12/06/22 14:12

Sequence:

Calibration:

Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	0.07	1	0.04	0.04	



DUPLICATES
SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0134-DUP1

Batch: BKL0134

Lab Source ID: 22L0104-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW22-SS773

% Solids: 48.06

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	48.06	46.63	3.02	

*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



DUPLICATES
SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Laboratory ID: BKL0134-DUP2

Batch: BKL0134

Lab Source ID: 22L0104-01

Preparation: No Prep Wet Chem

Initial/Final: 5 g / 5 g

Source Sample Name: LDW22-SS773

% Solids: 48.06

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	48.06	45.89	4.61	

*: Values outside of QC limits

L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD



HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SS773 22L0104-01	12/02/22 07:10	12/05/22 17:00	12/06/22 14:09	4	28	12/06/22 14:12	4	28	
LDW22-SS774 22L0104-02	12/02/22 07:20	12/05/22 17:00	12/06/22 14:09	4	28	12/06/22 14:12	4	28	
Duplicate BKL0134-DUP1	12/02/22 07:10	12/05/22 17:00	12/06/22 14:09	4	28	12/06/22 14:12	4	28	
Duplicate BKL0134-DUP2	12/02/22 07:10	12/05/22 17:00	12/06/22 14:09	4	28	12/06/22 14:12	4	28	

* Indicates hold time exceedance.



Analytical Resources, LLC
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC

SDG: 22L0104

Client: Anchor QEA, LLC

Project: AOC4 UR Phase 3

Matrix: Solid

Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%