Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 September 2021

Cindy Fields
Anchor QEA, LLC
1201 3rd Ave, Suite 2600
Seattle, WA 98101

RE: Lower Duwamish AOC4

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)	Associated SDG ID(s)
21H0263	N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
Date: 2021.09.13 16:49:58 -07'00'

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, Inc.

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.

Susan Dunnihoo, Director, Client Services

Cert# 100006-012

20f0432 / 21H0263 TIER 2

1 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3871

Project/Client Name: Duwamish AOPU
Project Number: 18067-02.02
Contact Name: Amara Vanderwort
Sampled By: Windward

Ship to: ARI
Attn: Amanda Volgardsen
Shipping Date: 6/23/2020
Shipper: Courier
Airbill Number: NA
Form filled out by: B. Quinlisk
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): ARCHIVE							Comments / Instructions (Jar tag number(s))
6/23/2020	6:06	UDW20-IT384	7	Sediment	X							
	7:14	-SC380	6		X							
	8:18	-IT317	7		X							
	9:31	-IT321	7		X							
	9:47	-IT311	7		X							
	11:27	-SC209	6		X							
	11:50	-SC207A	6		X							
	11:50	-SC207Z	6		X							
	12:16	-SC213A	6		X							
	12:16	-SC213Z	6		X							
	13:05	-SC205A	6		X							
	13:05	-SC205B	6		X							
		Total Number of Containers	76	Purchase Order / Statement of Work # CLF-042720a								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Brandi Quinlisk		Print name:	
Signature: Brandi Quinlisk	Company: ARI	Signature:	Company:
Company: Windward		Company:	
Date/Time: 6/23/2020 15:35	Date/Time: 6/23/2020 1535	Date/Time:	Date/Time:

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

To be completed by Laboratory upon sample receipt:

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

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

2040432/21H0263 Tier 2

2 of 2

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3873

Project/Client Name: Duwamish AOCU
Project Number: 160067-02.02
Contact Name: Amara Vanderwort
Sampled By: Windward

Ship to: ARI
Attn: Amanda Volgardsen
Shipper: Courier
Form filled out by: B. Quinlisk

Shipping Date: 6/23/2020
Airbill Number: NA
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): Archive							Comments / Instructions [Jar tag number(s)]
6/23/2020	13:05	LDW20-SC205Z	6	Sediment	X							
		Total Number of Containers	6	Purchase Order / Statement of Work #	CLF-042720a							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Brandi Quinlisk		Print name:	
Signature: Brandi Quinlisk	Company: ARI	Signature:	Company:
Company: Windward		Company:	
Date/Time: 6/23/2020 15:35	Date/Time: 6/23/2020 1535	Date/Time:	Date/Time:

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

Windward environmental LLC
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:	Received by:

Reply all Delete Junk Block ...

Re: LDW20-IT384

"Progress isn't made by early risers. It's made by lazy men trying to find easier ways to do something." – **Robert A. Heinlein**

From: Sue Dunnihoo <limsadm@arilabs.com>
Sent: Friday, August 20, 2021 10:07 AM
To: Sample Receiving <sample-receiving@arilabs.com>
Subject: Fw: LDW20-IT384

21H0263

Please pull referenced sample (20F0432-01) and log for SMS PAH (full-scan) and TOC.

Thanks, Sue

I will be out of the office Tuesday Aug 24 for an NEBC event.

Courier requests will not be guaranteed for same day pick-ups or deliveries.

Susan D. Dunnihoo
Director, Client Services
Analytical Resources, Inc.
sue@arilabs.com
W 206-695-6207 4611 S. 134th Place, Suite 100
Tukwila, WA 98168

https://www.arilabs.com

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

Version changes coming this summer to SW-846 8260 and 8270 analyses, see our recent post explaining the details.

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

Before printing, think about ENVIRONMENTAL responsibility

From: Susan McGroddy <SusanM@windwardenv.com>
Sent: Thursday, August 19, 2021 5:23 PM
To: Sue Dunnihoo <limsadm@arilabs.com>
Cc: Amara Vandervort <amarav@windwardenv.com>; Cindy Fields <cfields@anchorqea.com>; Kim Goffman <KimG@windwardenv.com>
Subject: LDW20-IT384

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Anchor QEA, LLC	Project:	Lower Duwamish AOC4	
1201 3rd Ave, Suite 2600	Project Number:	180067-02.02	**Reported:**
Seattle, WA 98101	Project Manager:	Cindy Fields	09/13/2021 16:33

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
21H0263-01	LDW20-IT384	Solid	06/23/20 06:06	06/23/20 15:35

Anchor QEA, LLC	Project: Lower Duwamish AOC4	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.02	**Reported:**
Seattle WA, 98101	Project Manager: Cindy Fields	13-Sep-2021 16:33

Case Narrative

Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Work Order: 21H0263

Sample receipt

One sample as listed on the preceding page was activated from frozen archive 21-Aug-2021 09:39 under ARI work order 21H0263. For details regarding sample receipt, please refer to the Cooler Receipt Form. The sample had expired recommended holding times and all results have been "H"-flagged.

Semivolatiles - EPA Method SW8270E

The sample(s) were extracted outside holding time as noted above. The prep analyst mistakenly double spiked the surrogates in the matrix spike and matrix spike duplicate, which has been accounted for in the calculations.

The calibration SJI017-CCV1 shows response of perylene-d12 low of control limits. Calibration SJI0174-ICV1 shows response for p-terphenyl-d14 and fluoranthene outside control limits. Associated positive results have been "Q"-flagged.

Internal standard areas were within limits.

The surrogate percent recoveries for p-terphenyl-d14 were high of limits in BJH0655-BLK1. The recoveries for p-terphenyl-d14 and nitrobenzene-d5 were high of limits in BJH0655-BSD1.

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

The blank spike (BS/LCS) percent recoveries for fluoranthene and pyrene were high of limits in BJH0655-BSD1.

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

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

Wet Chemistry

The sample(s) were preparted outside holding time as noted above.

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 recovery was within advisory control limits. The duplicates (DUP1 and DUP2) relative percent difference (RPD) were outside advisory control limits.

QUALIFIERS AND NOTES

Qualifier	Definition
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)
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)
*	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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW20-IT384

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

Laboratory:	Analytical Resources, Inc.				
Client:	Anchor QEA, LLC				
Project:	Lower Duwamish AOC4				
Matrix:	Sediment	Laboratory ID:	21H0263-01 A	SDG:	21H0263
Sampled:	06/23/20 06:06	Prepared:	08/30/21 12:10	File ID:	NT1021091111.D
% Solids:	76.22	Preparation:	EPA 3546 (Microwave)	Analyzed:	09/11/21 16:49
Batch:	BJH0655	Sequence:	SJI0174	Initial/Final:	13.12 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	EH00053
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
91-20-3	Naphthalene	1	20.0	H, U	4.2	20.0
91-57-6	2-Methylnaphthalene	1	20.0	H, U	4.5	20.0
208-96-8	Acenaphthylene	1	20.0	H, U	6.2	20.0
83-32-9	Acenaphthene	1	20.0	H, U	5.2	20.0
86-73-7	Fluorene	1	20.0	H, U	14.6	20.0
85-01-8	Phenanthrene	1	17.9	H, J	8.7	20.0
120-12-7	Anthracene	1	20.0	H, U	7.2	20.0
206-44-0	Fluoranthene	1	48.5	H, Q	6.1	20.0
129-00-0	Pyrene	1	39.9	H	5.7	20.0
56-55-3	Benzo(a)anthracene	1	16.3	H, J	6.0	20.0
218-01-9	Chrysene	1	18.9	H, J	6.1	20.0
	Benzofluoranthenes, Total	1	40.0	H, U	10.0	40.0
50-32-8	Benzo(a)pyrene	1	18.7	H, J	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	15.1	H, J	14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	H, U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	18.2	H, J	13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	999.99	808	80.8	32 - 120	
Nitrobenzene-d5	999.99	938	93.8	30 - 120	
2-Fluorobiphenyl	999.99	937	93.7	35 - 120	
p-Terphenyl-d14	999.99	1020	102	37 - 120	Q

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

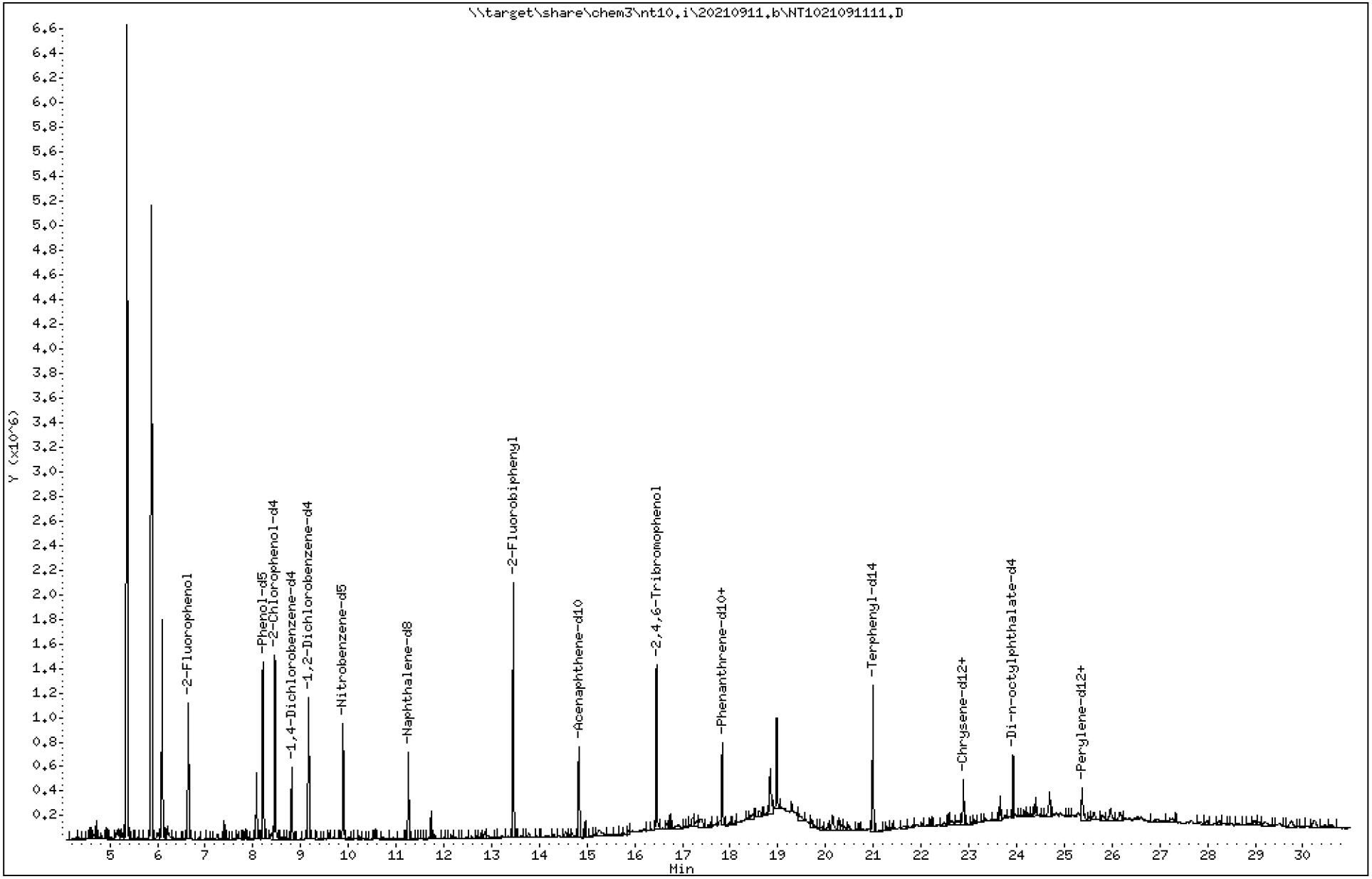
Instrument: nt10.i

Sample Info: 21H0263-01

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

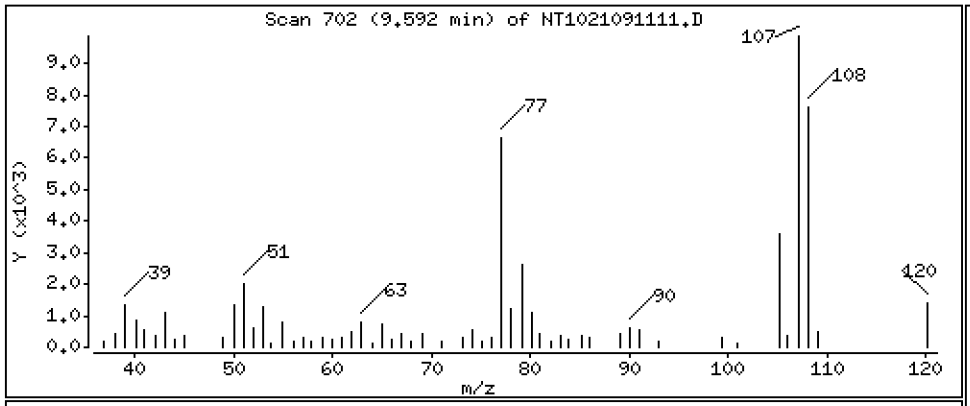
Operator: VTS

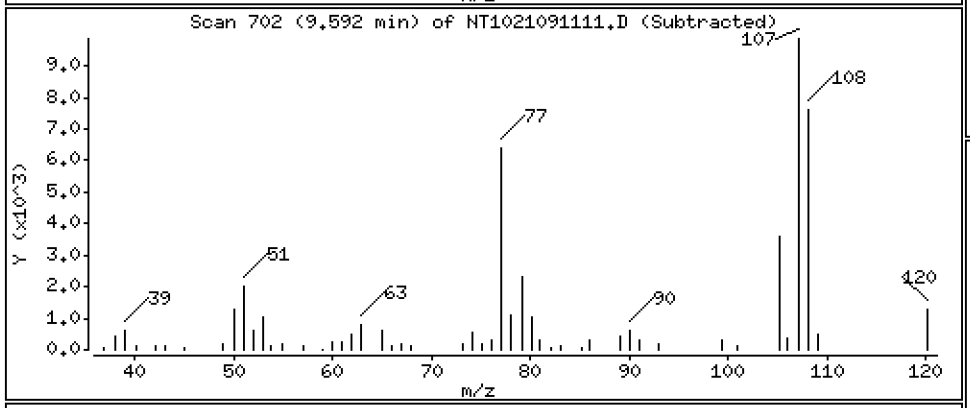
Column phase: ZB-5msi

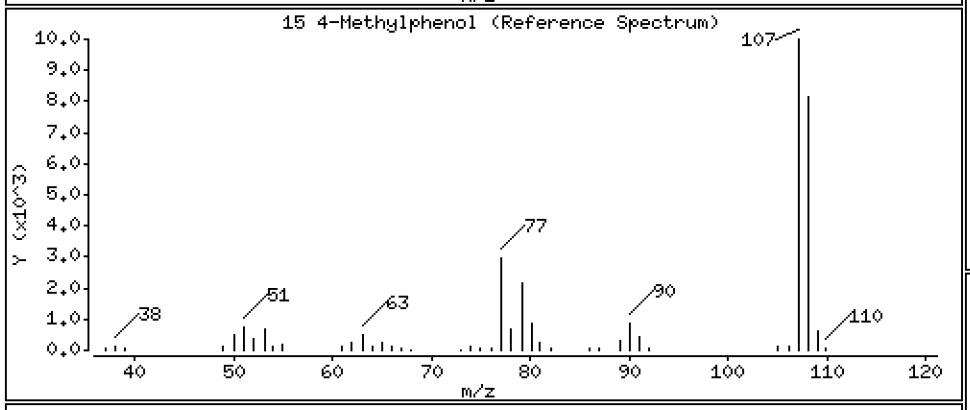
Column diameter: 0.25

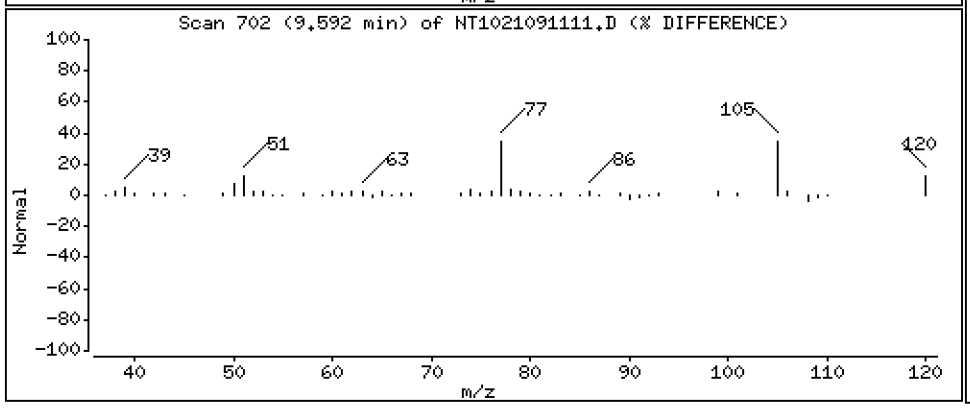
15 4-Methylphenol

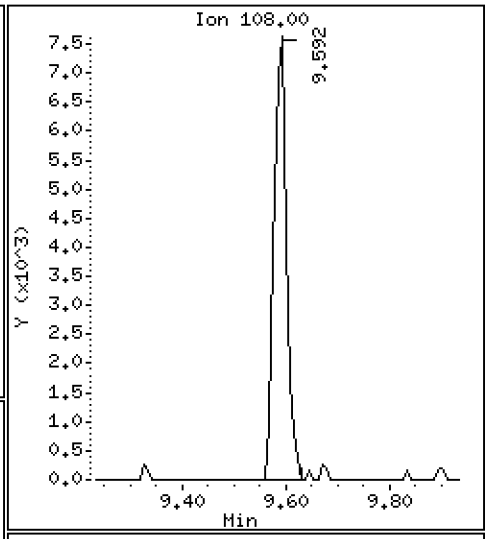
Concentration: 0.2927 ug/mL

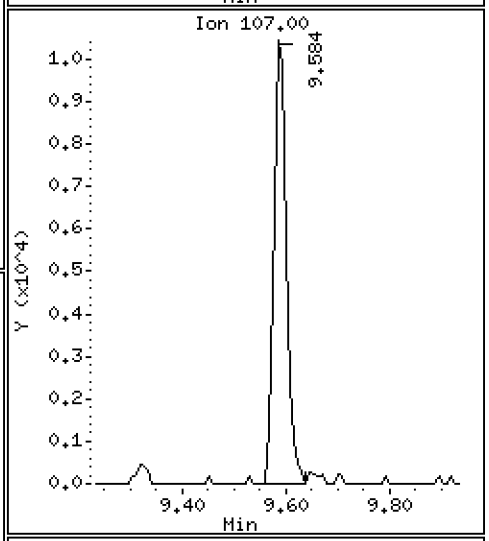


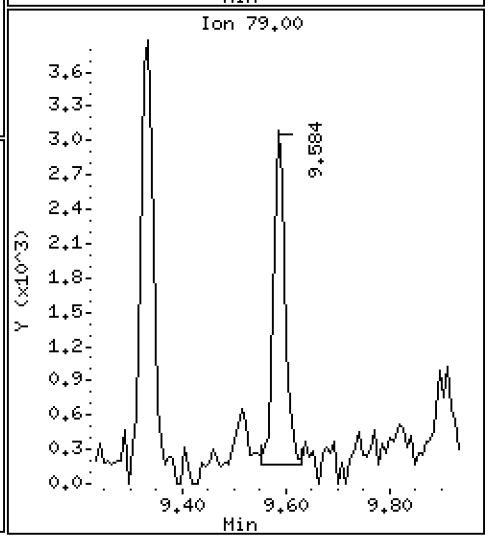












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

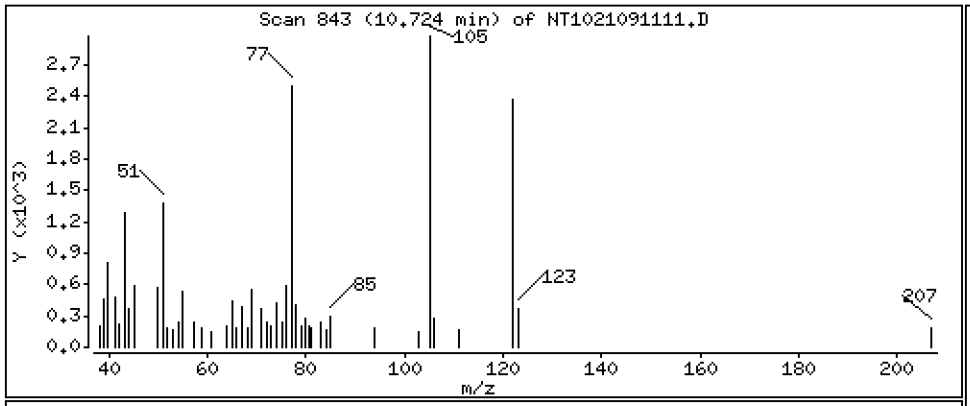
Operator: VTS

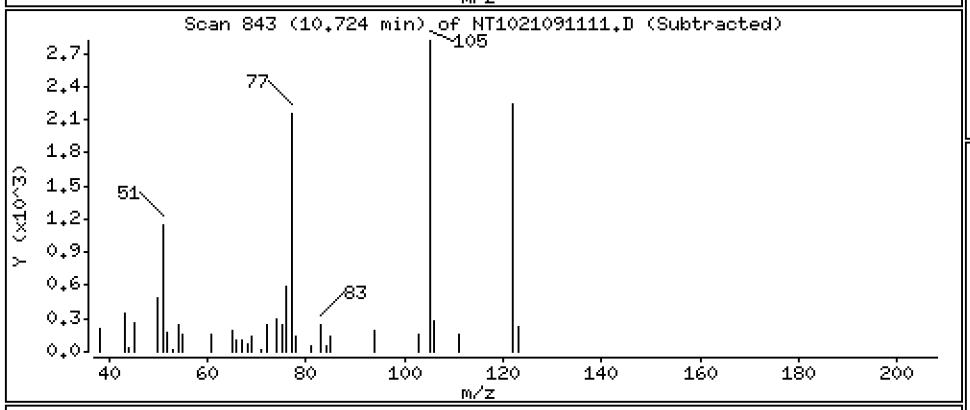
Column phase: ZB-5msi

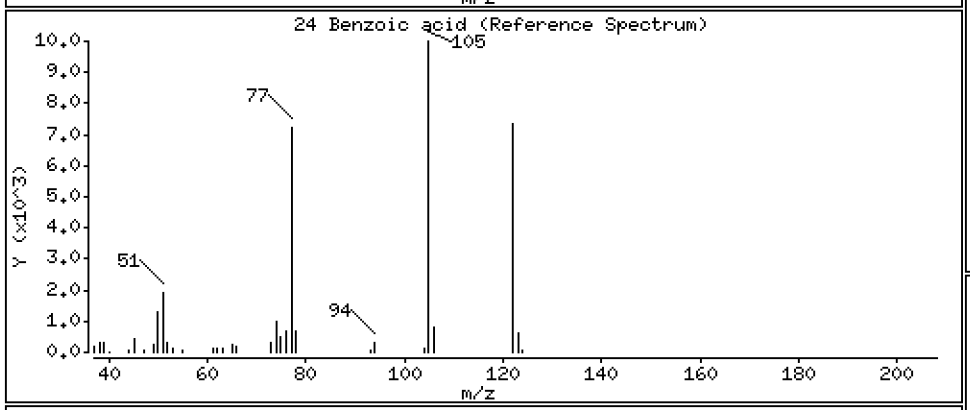
Column diameter: 0.25

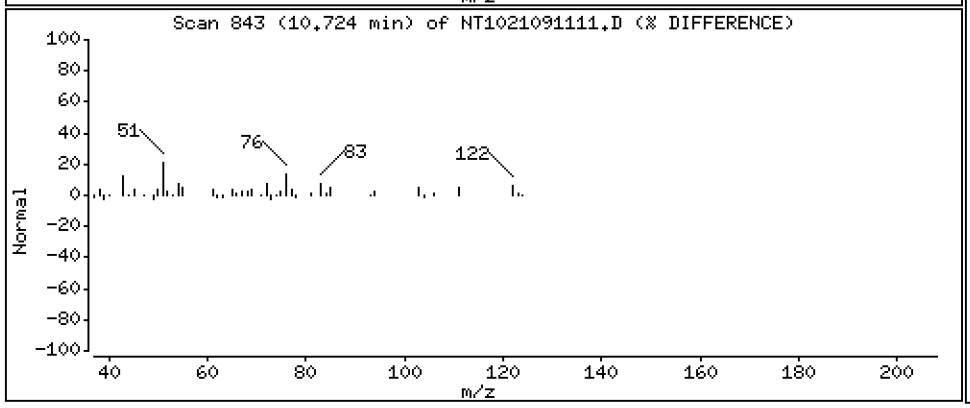
24 Benzoic acid

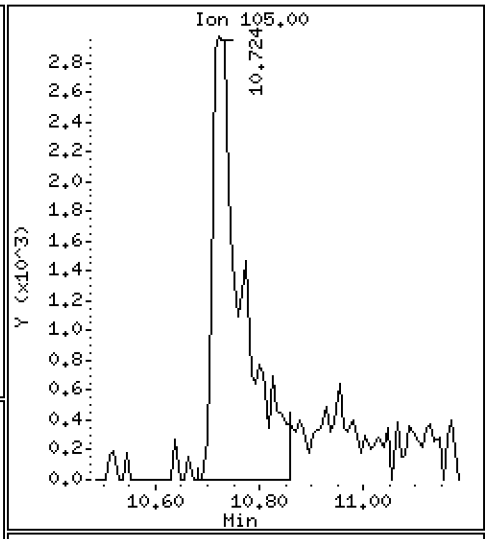
Concentration: 0.5451 ug/mL

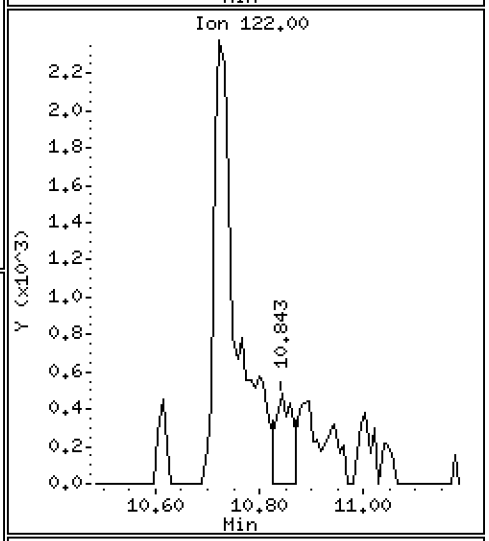


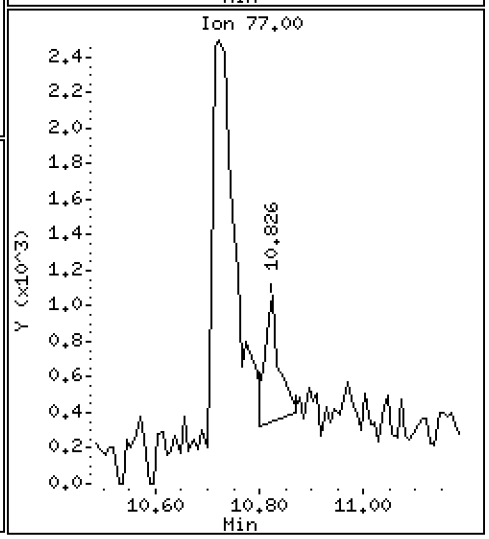












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

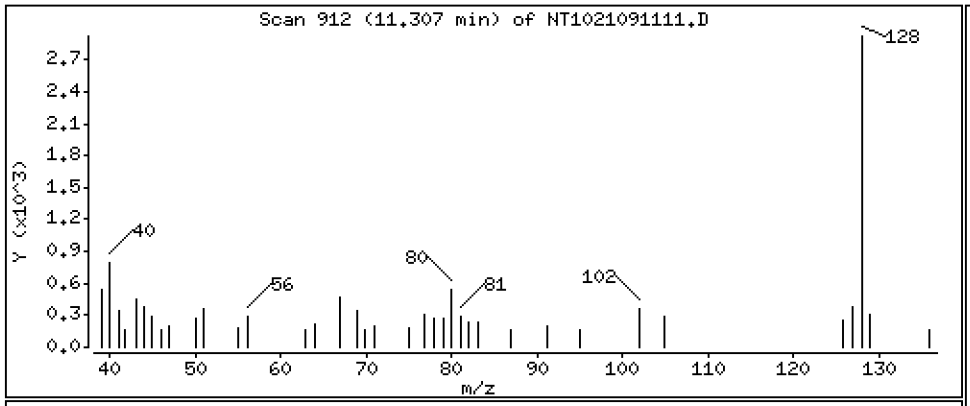
Operator: VTS

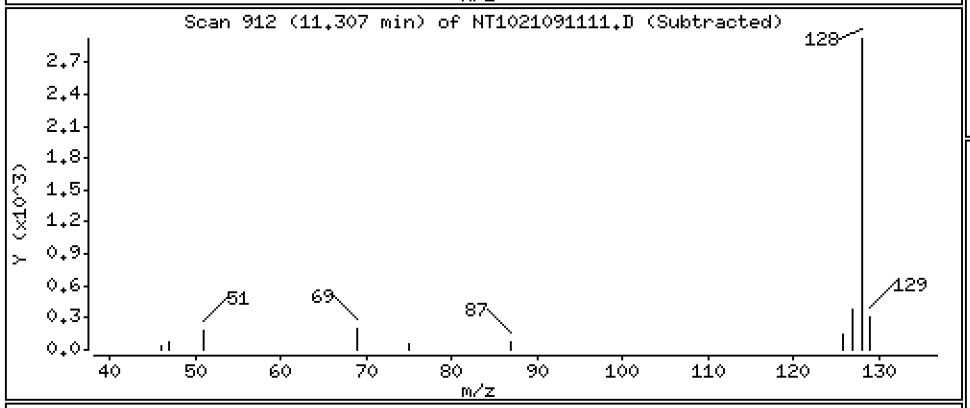
Column phase: ZB-5msi

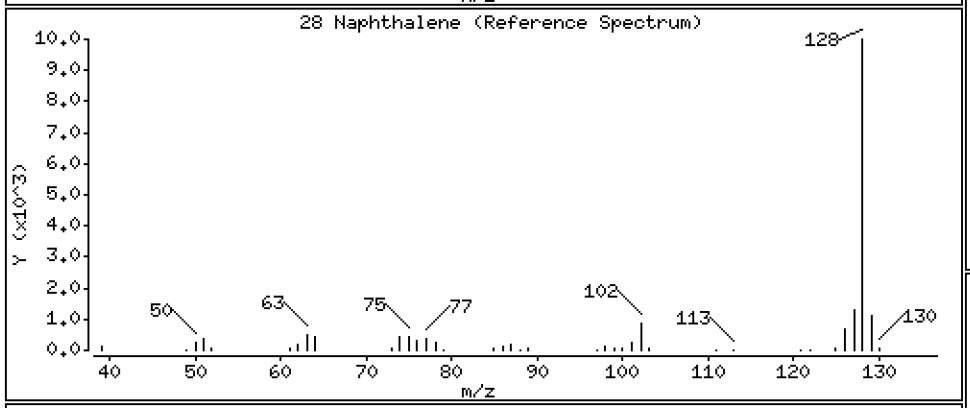
Column diameter: 0.25

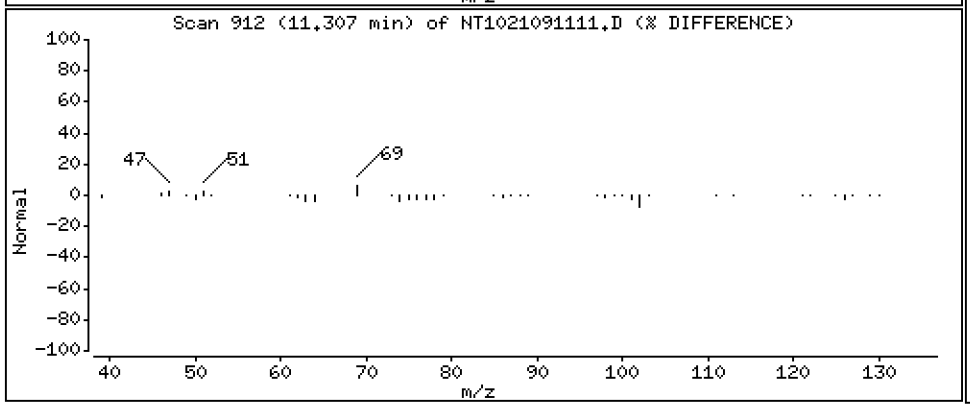
28 Naphthalene

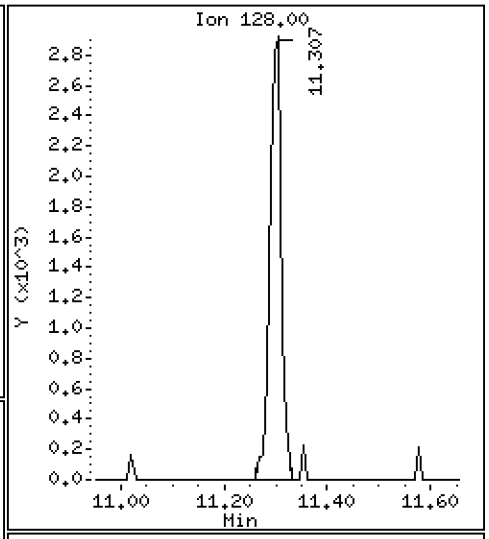
Concentration: 0.03721 ug/mL

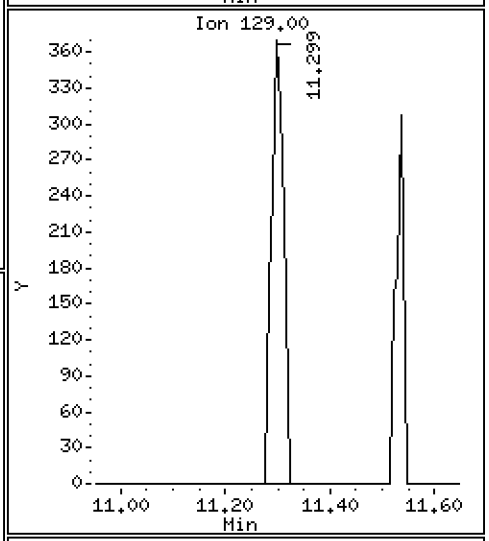


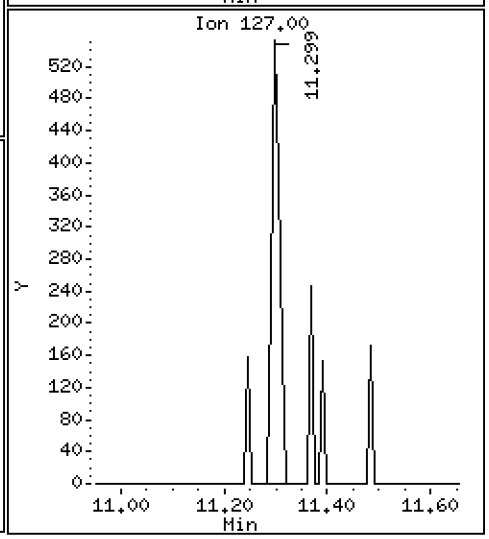












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

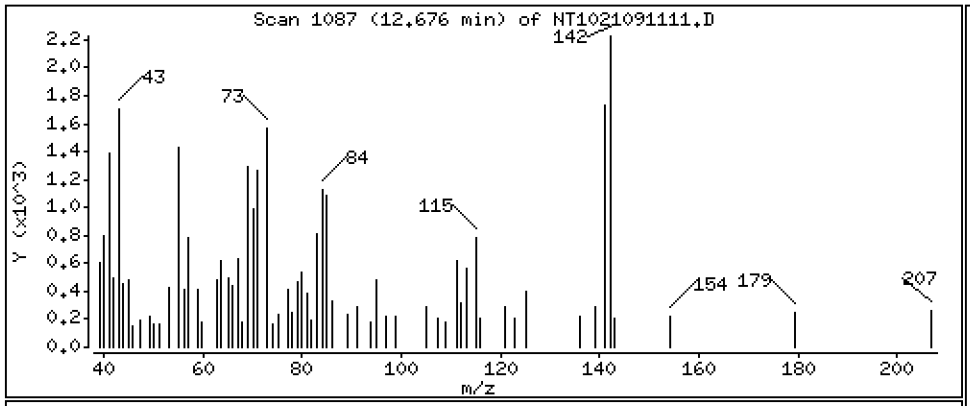
Operator: VTS

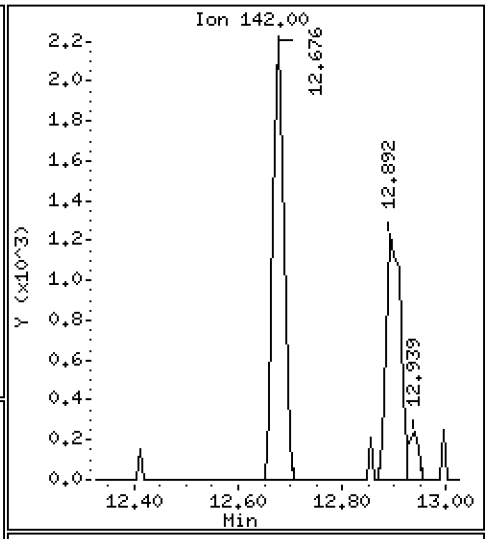
Column phase: ZB-5msi

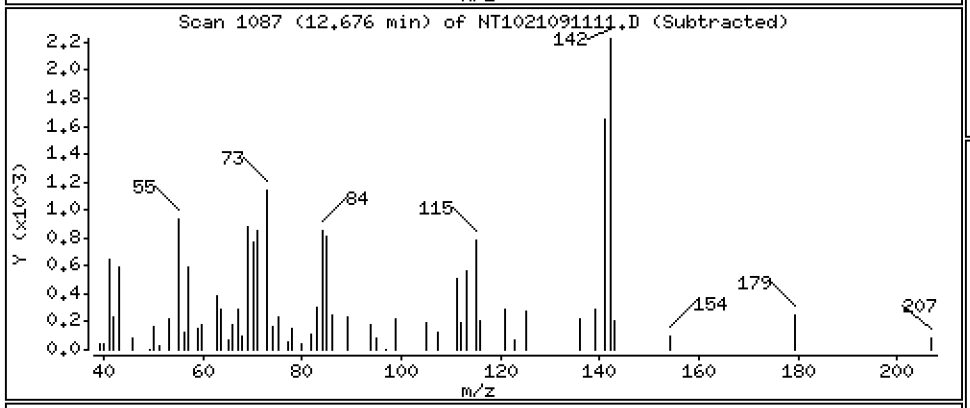
Column diameter: 0.25

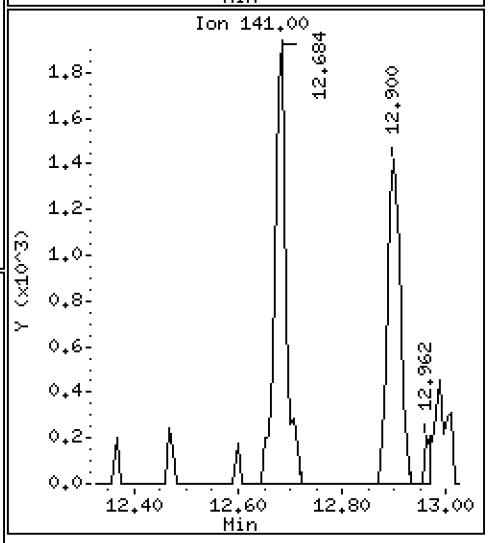
32 2-Methylnaphthalene

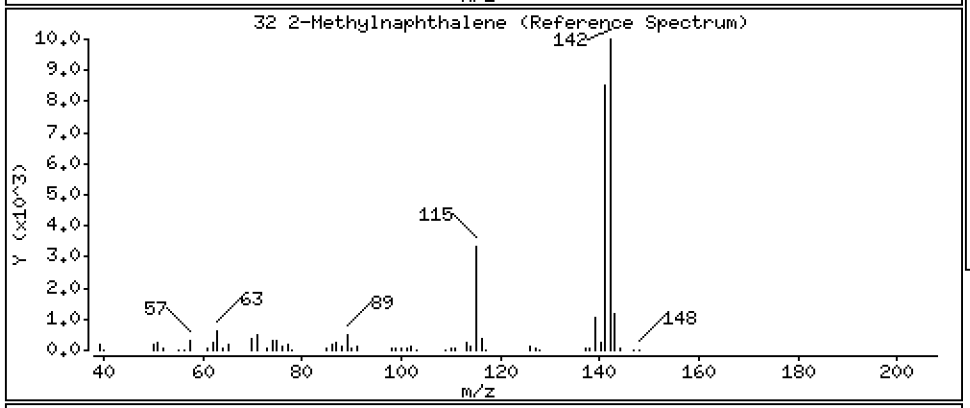
Concentration: 0.02541 ug/mL

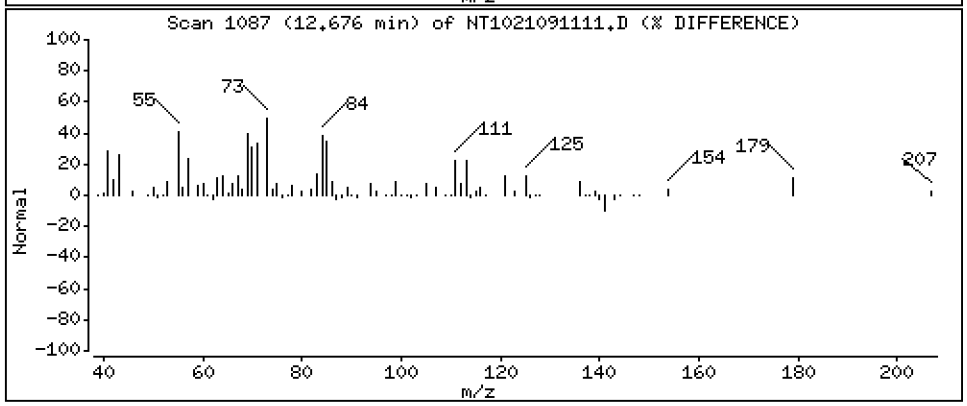












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

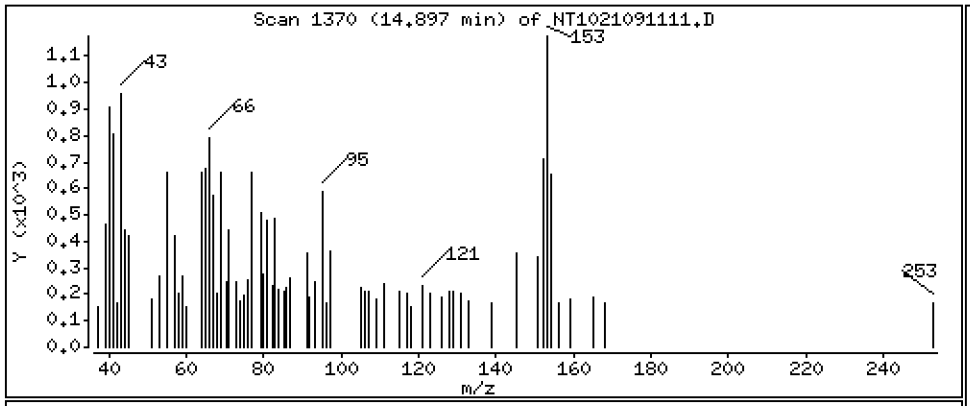
Operator: VTS

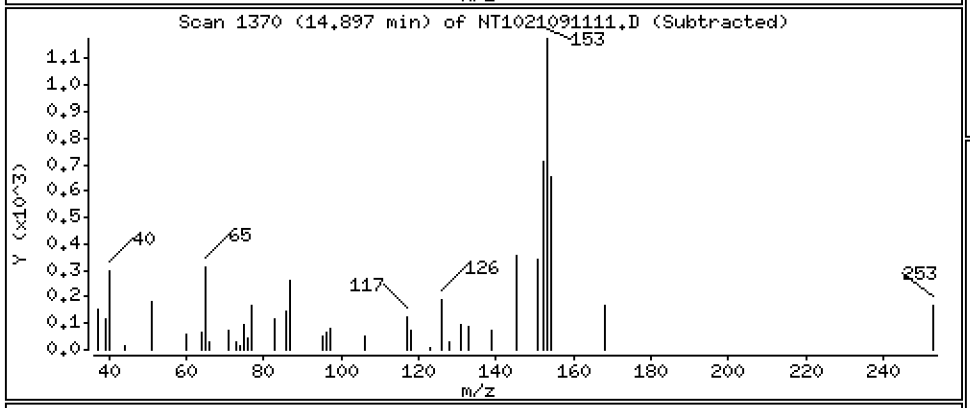
Column phase: ZB-5msi

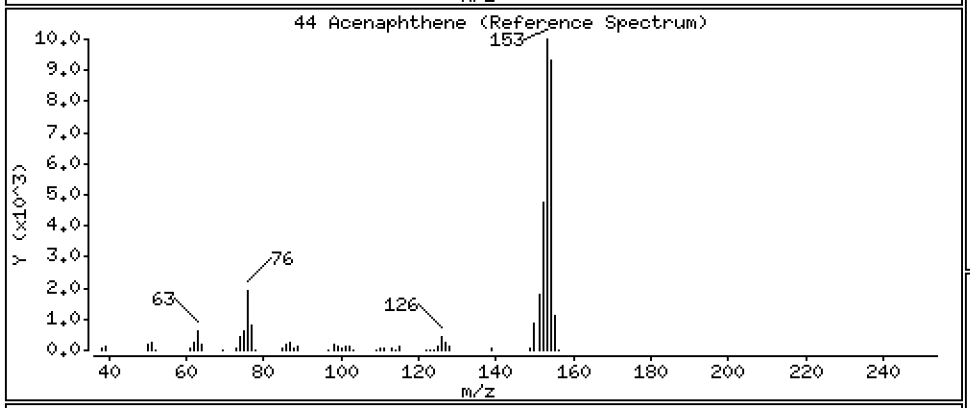
Column diameter: 0.25

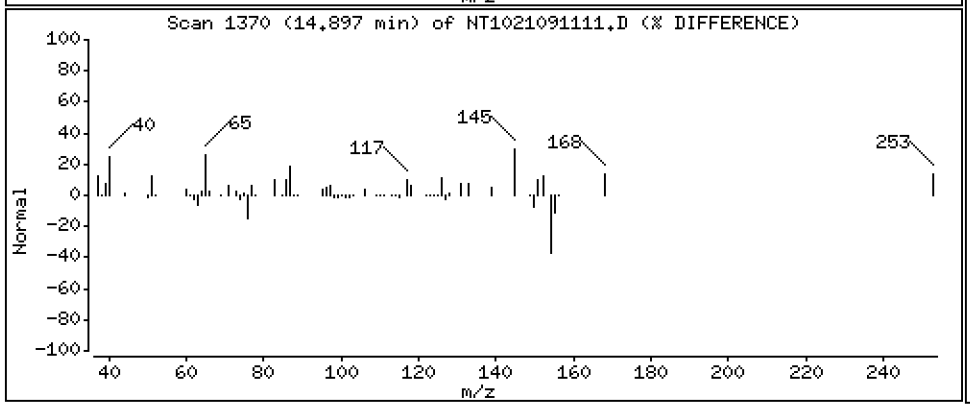
44 Acenaphthene

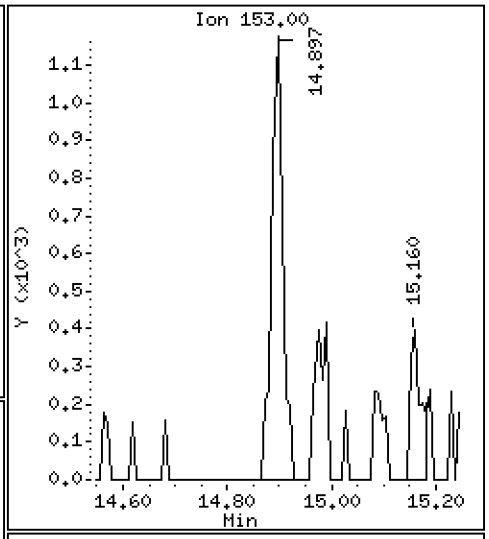
Concentration: 0.02267 ug/mL

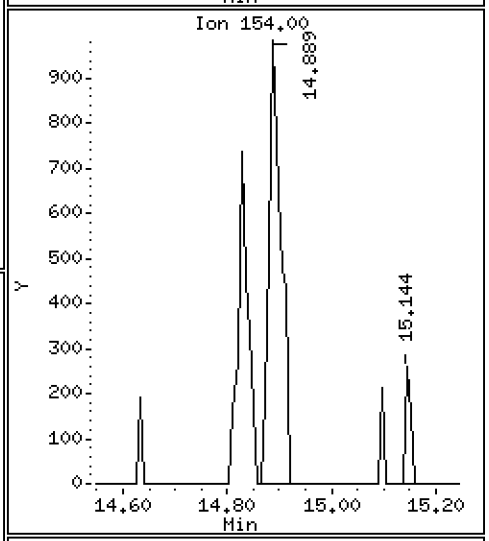


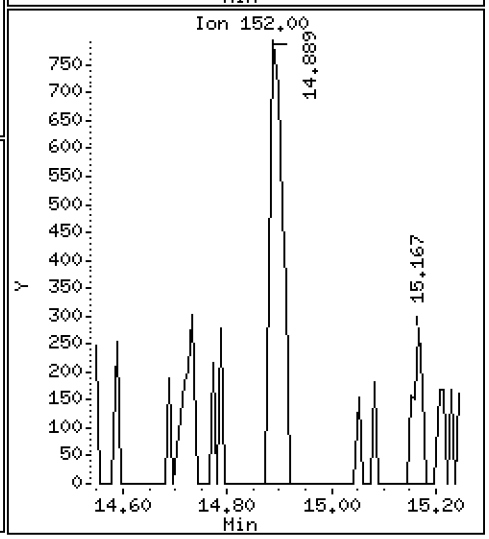












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

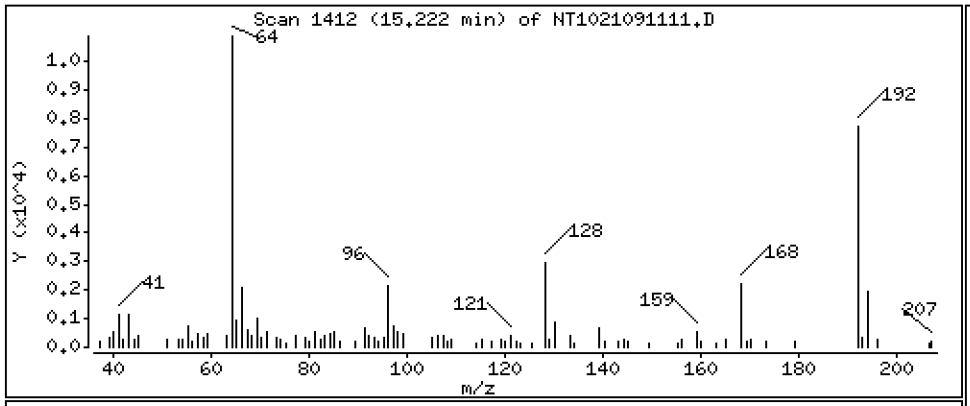
Operator: VTS

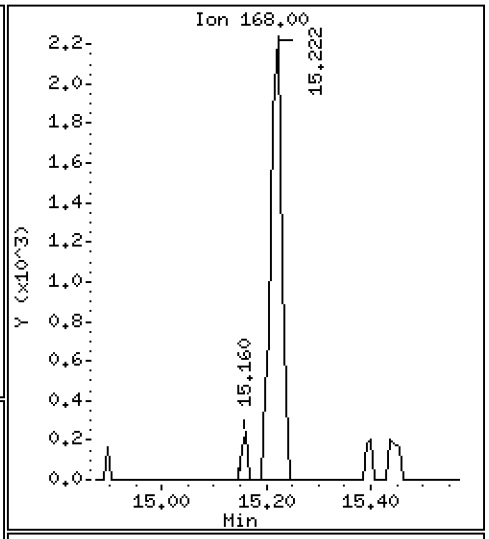
Column phase: ZB-5msi

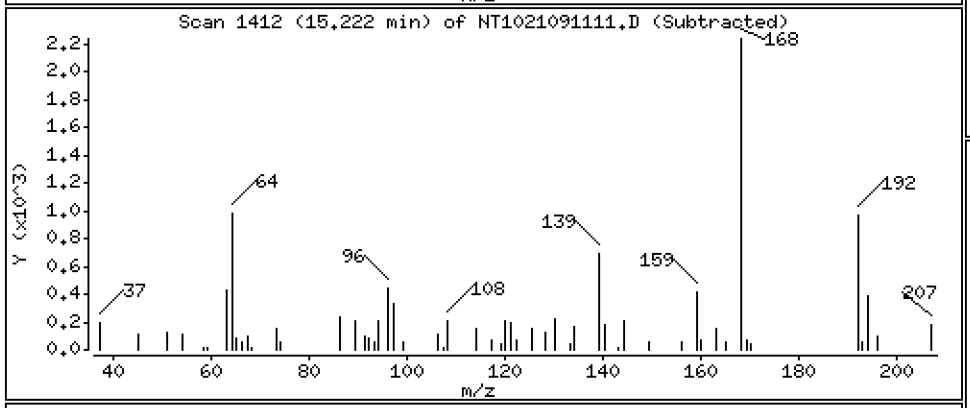
Column diameter: 0.25

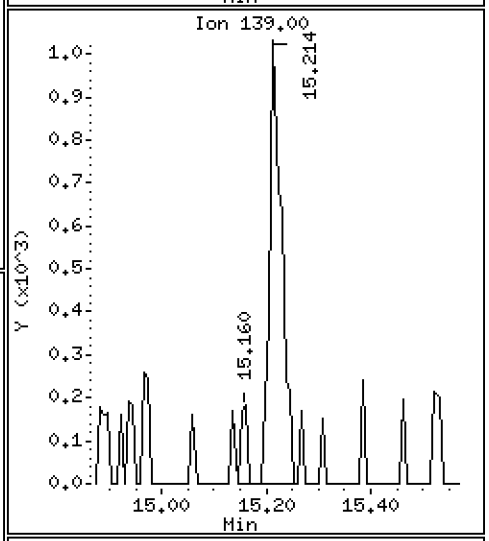
46 Dibenzofuran

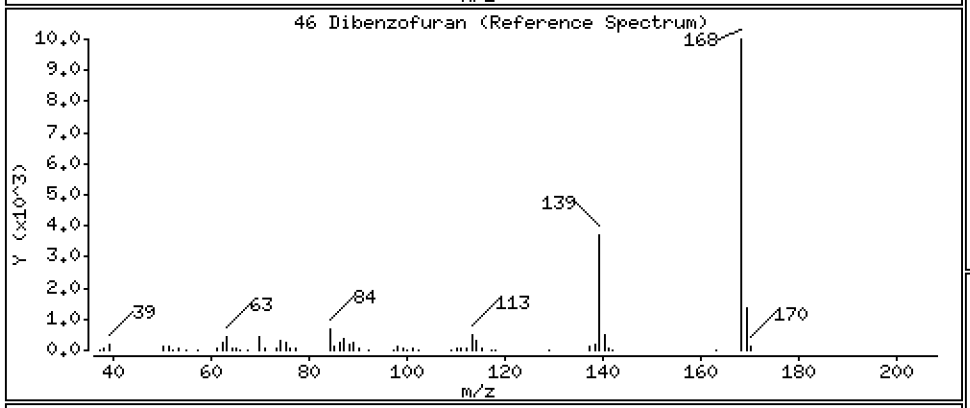
Concentration: 0.02406 ug/mL

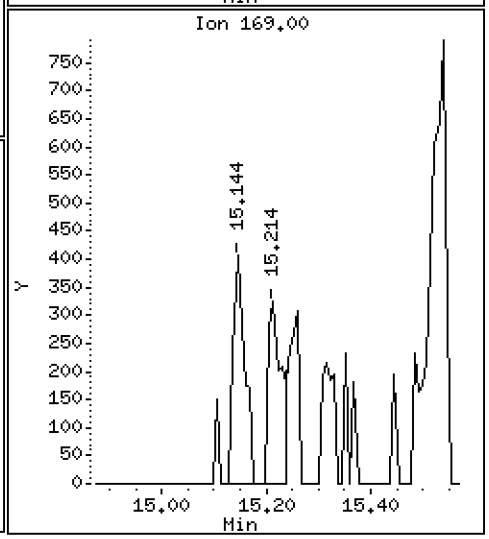


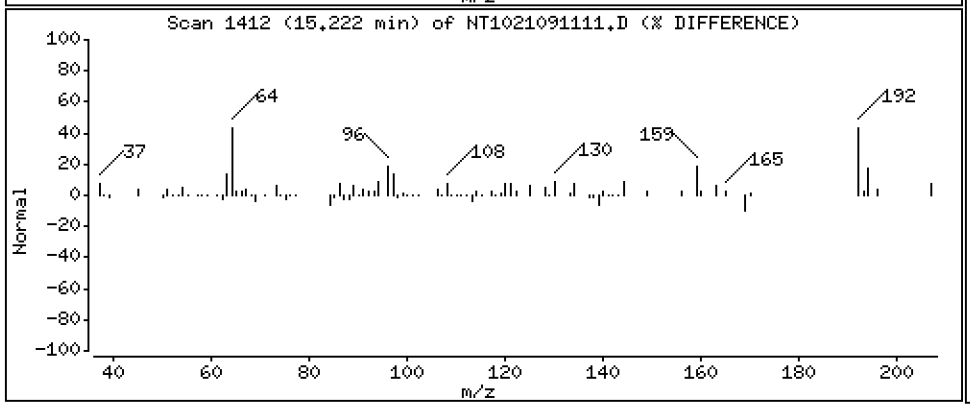












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

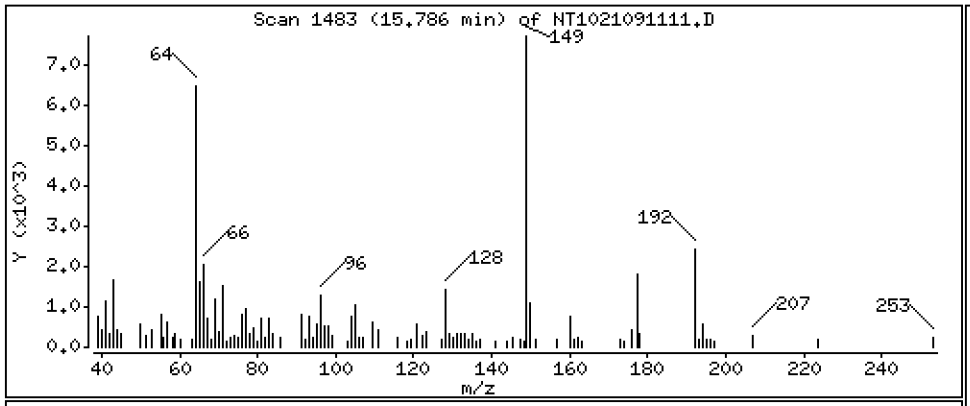
Operator: VTS

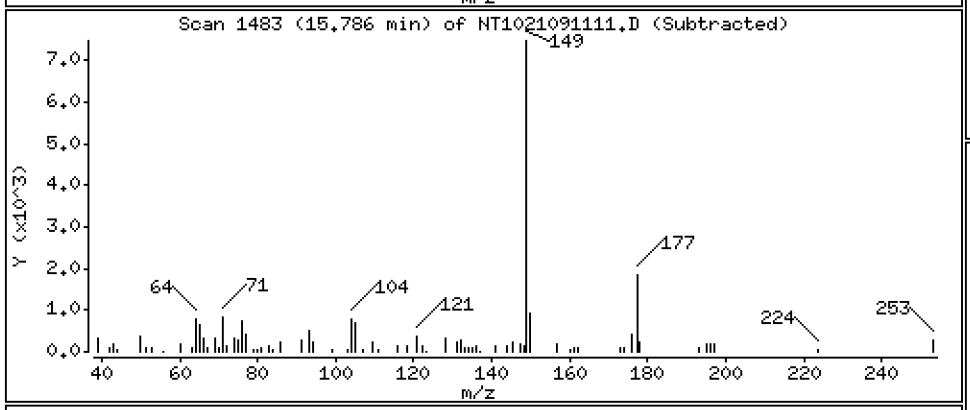
Column phase: ZB-5msi

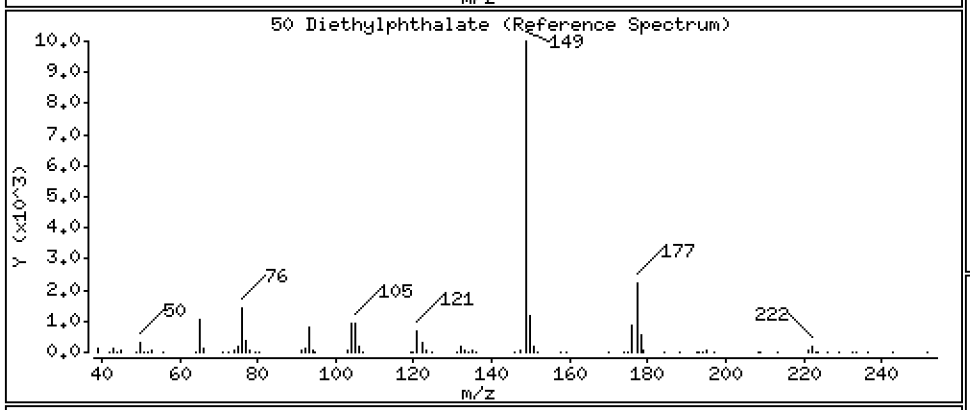
Column diameter: 0.25

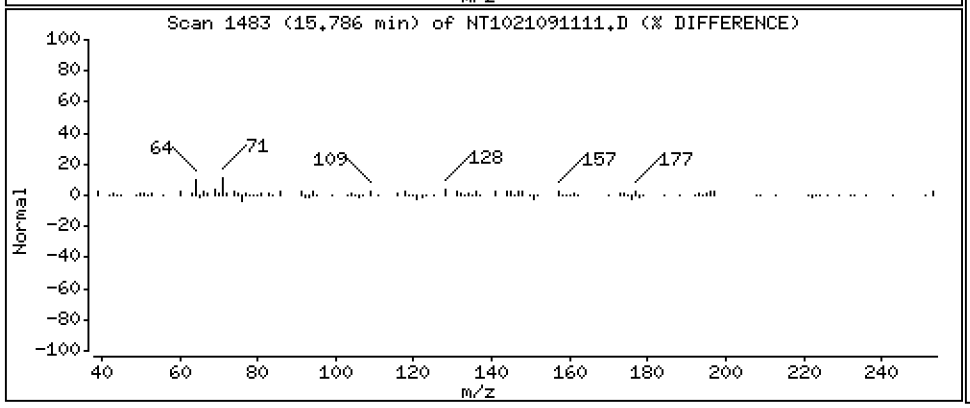
50 Diethylphthalate

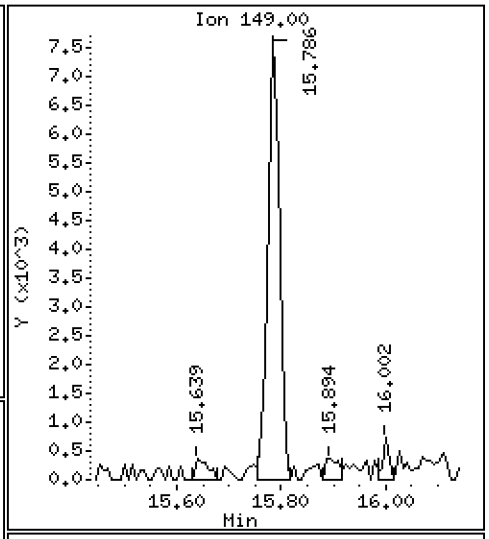
Concentration: 0.1356 ug/mL

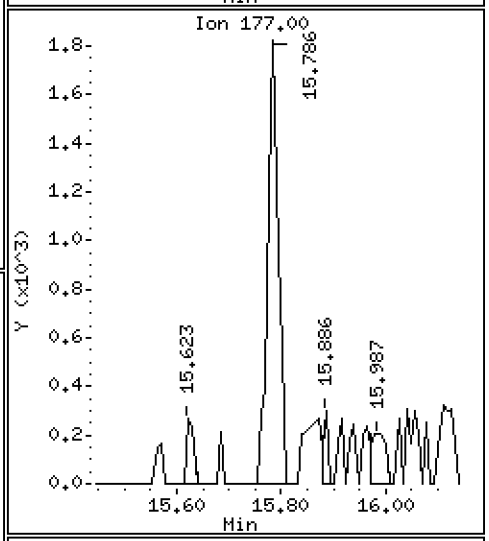


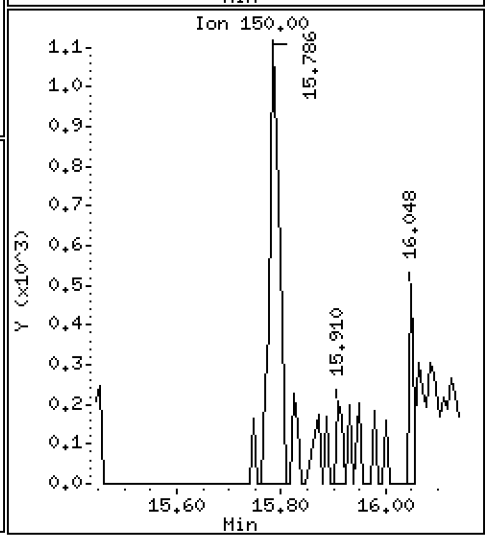












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

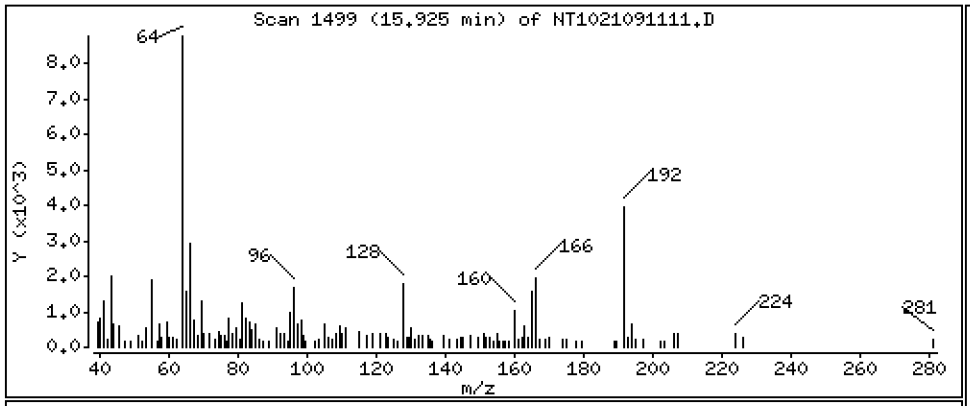
Operator: VTS

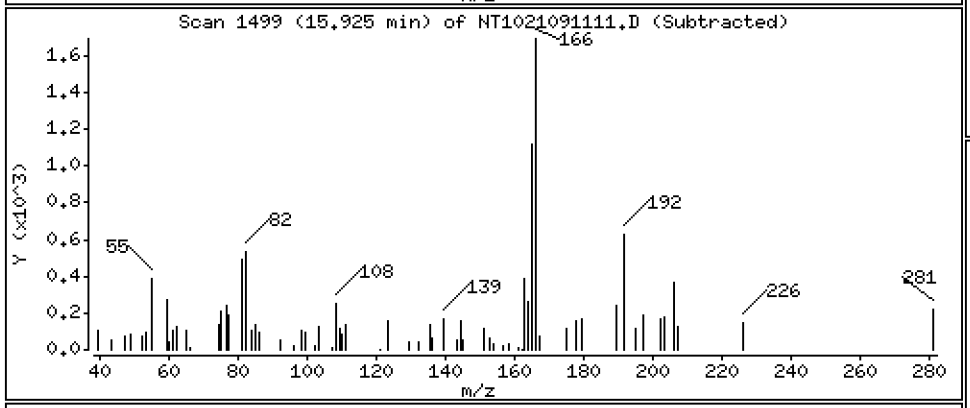
Column phase: ZB-5msi

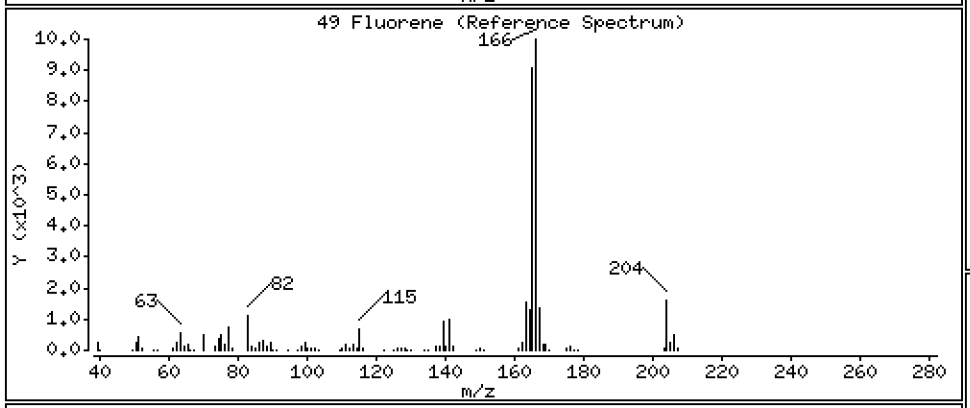
Column diameter: 0.25

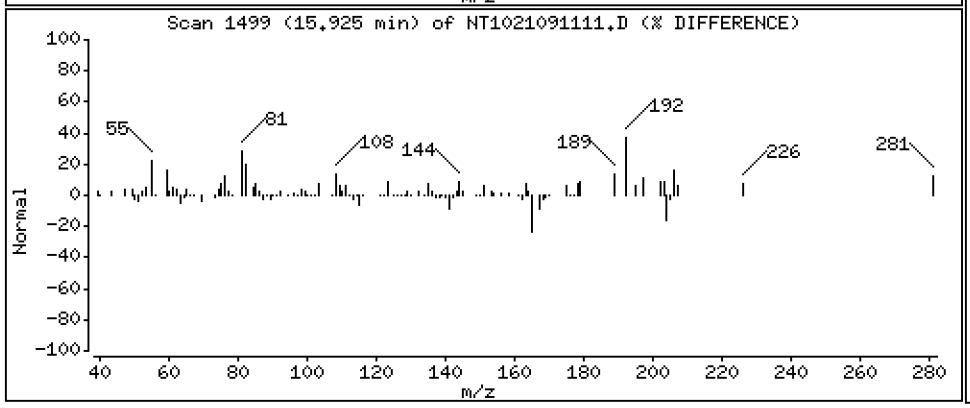
49 Fluorene

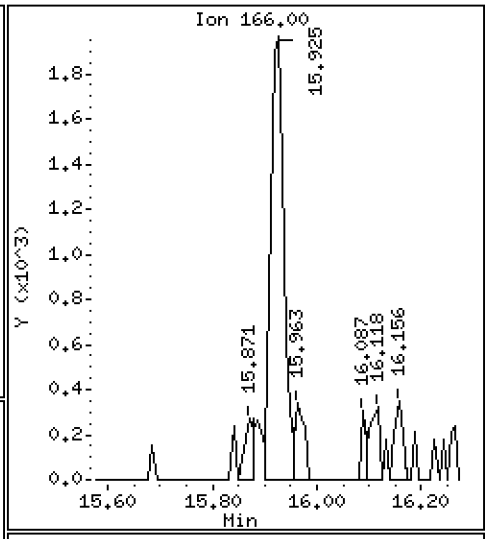
Concentration: 0.02941 ug/mL

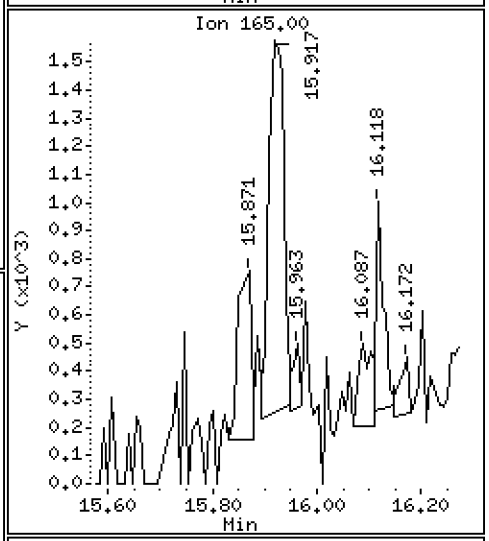


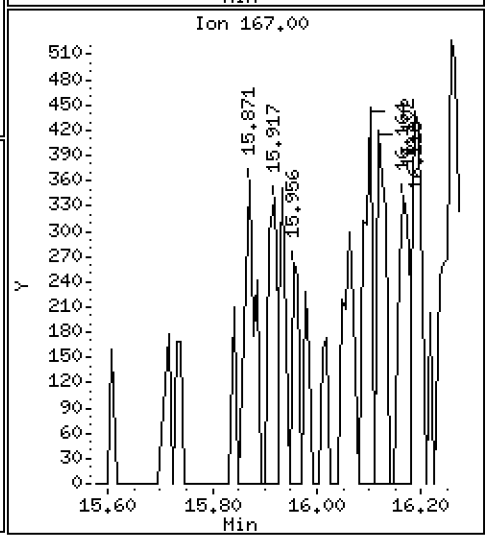












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

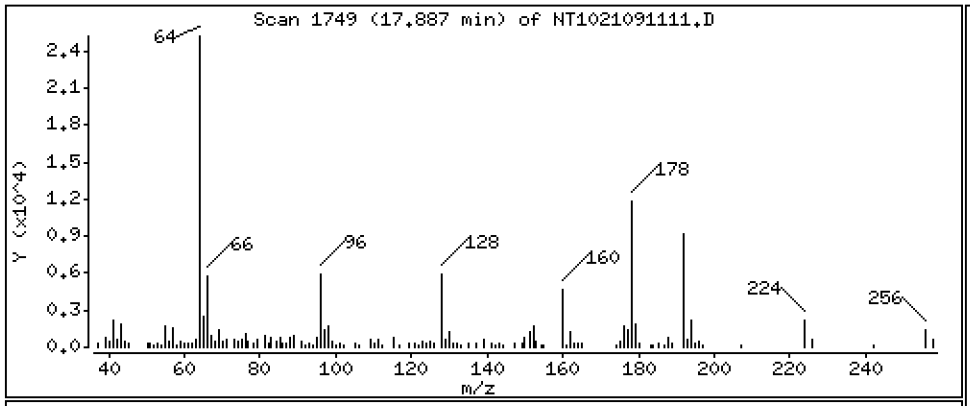
Operator: VTS

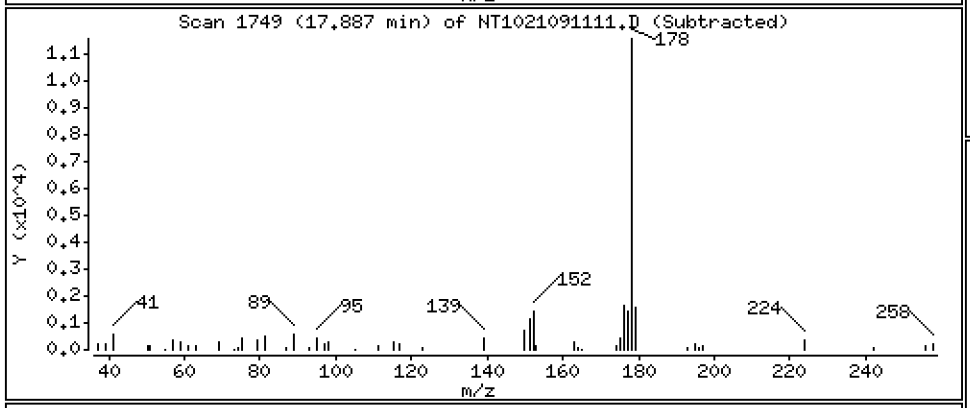
Column phase: ZB-5msi

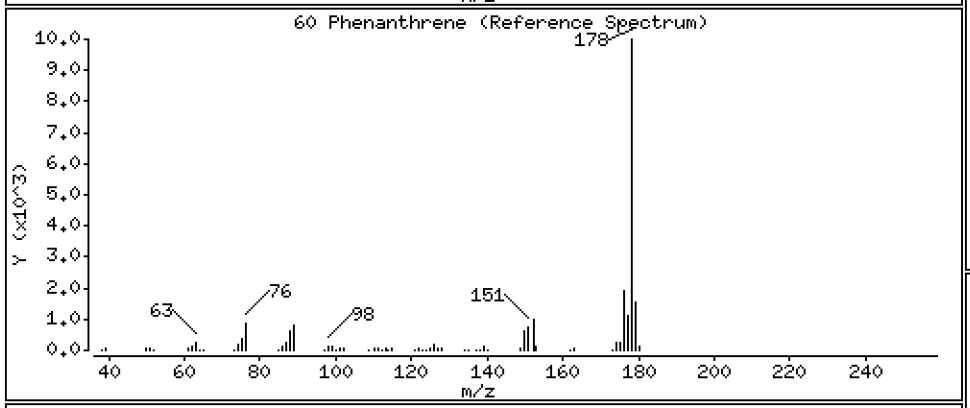
Column diameter: 0.25

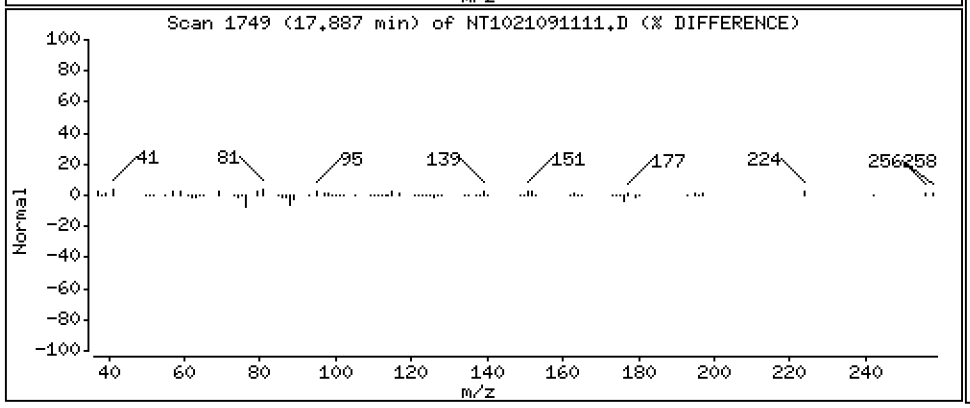
60 Phenanthrene

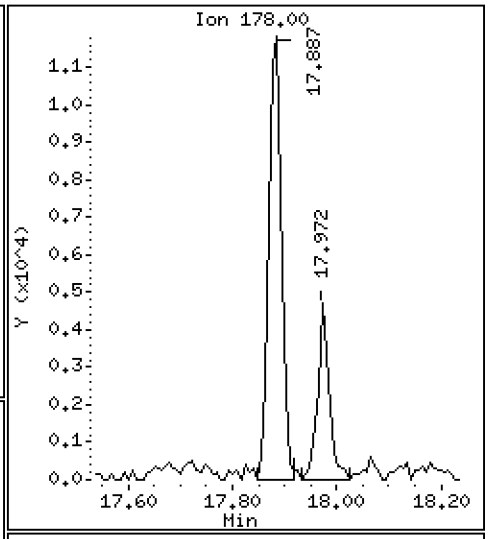
Concentration: 0.1789 ug/mL

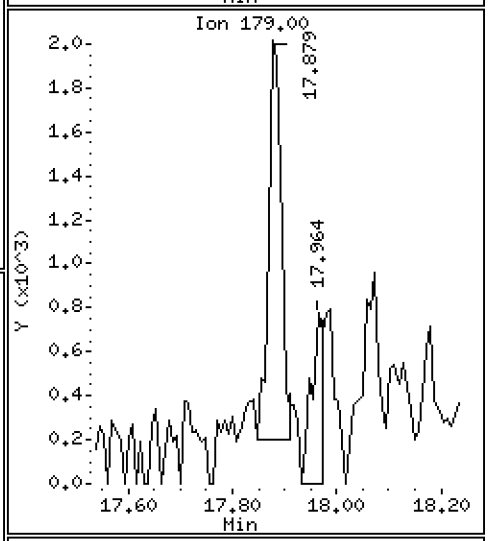


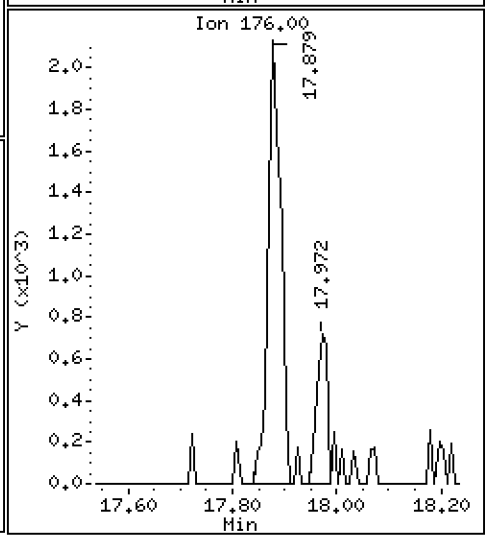












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

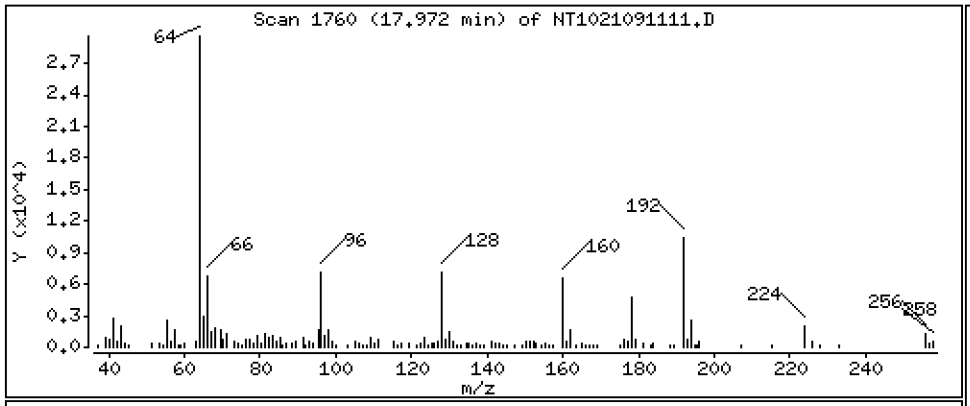
Operator: VTS

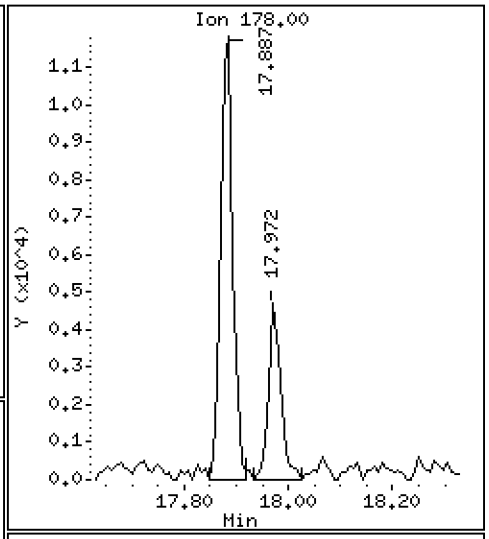
Column phase: ZB-5msi

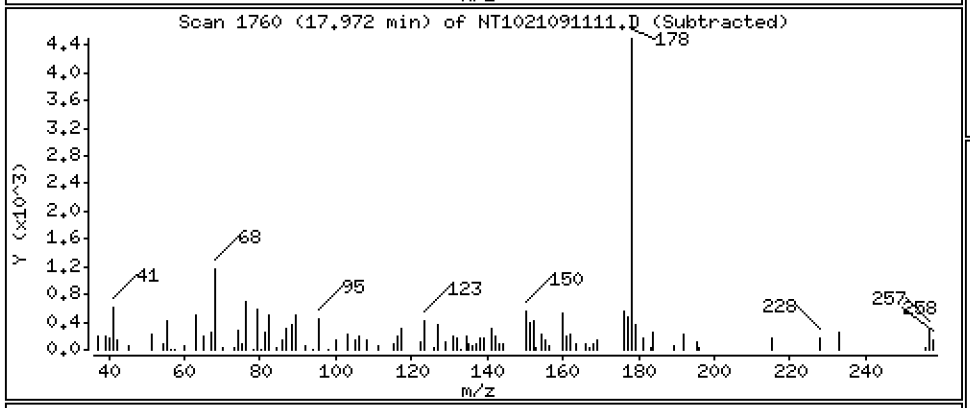
Column diameter: 0.25

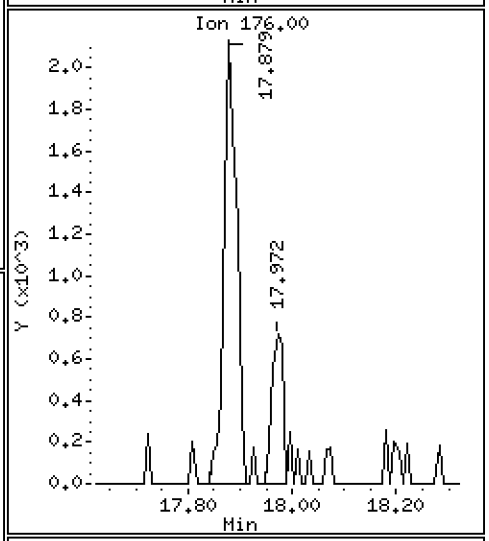
61 Anthracene

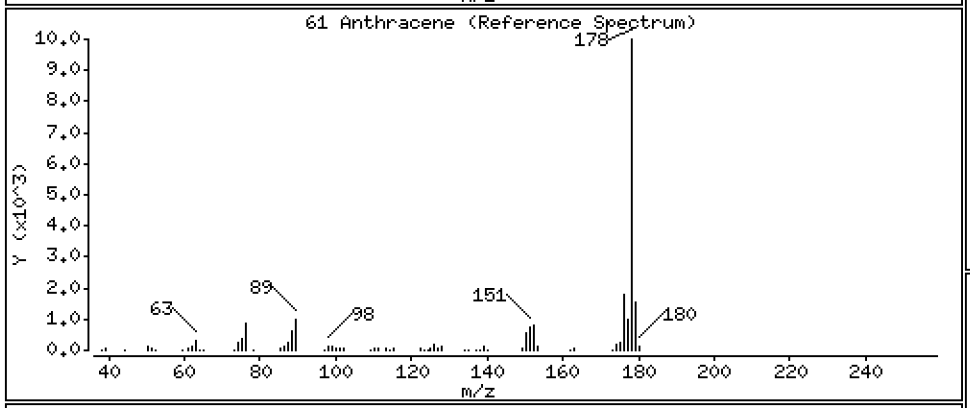
Concentration: 0.06238 ug/mL

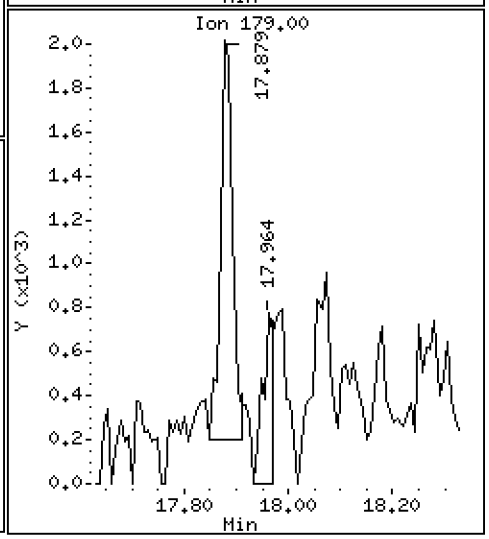


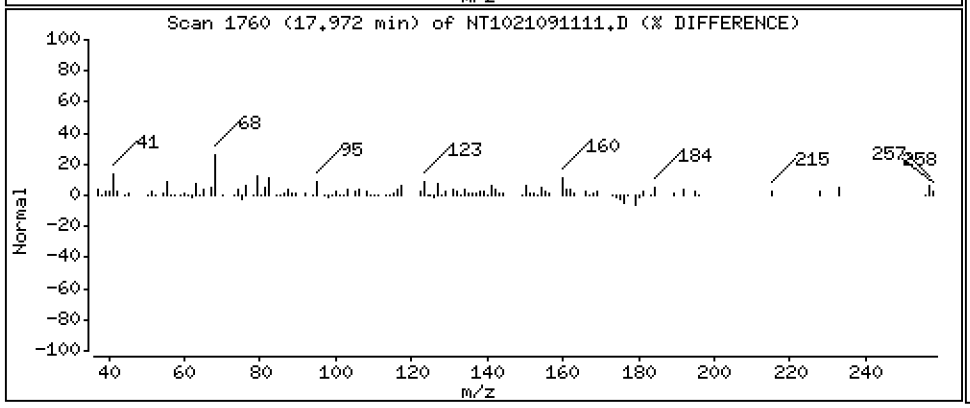












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

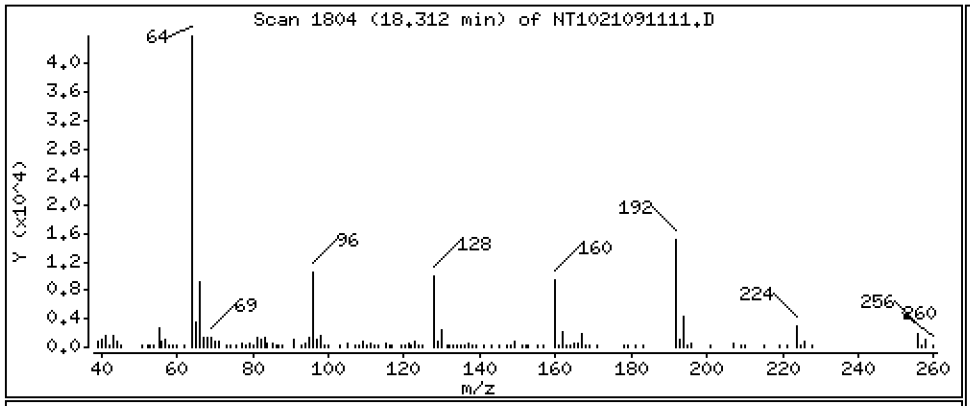
Operator: VTS

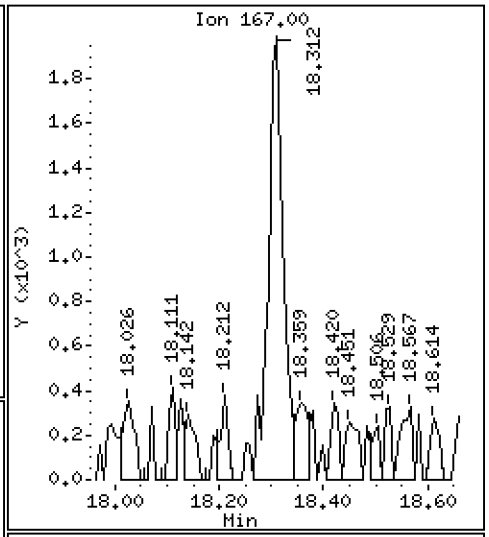
Column phase: ZB-5msi

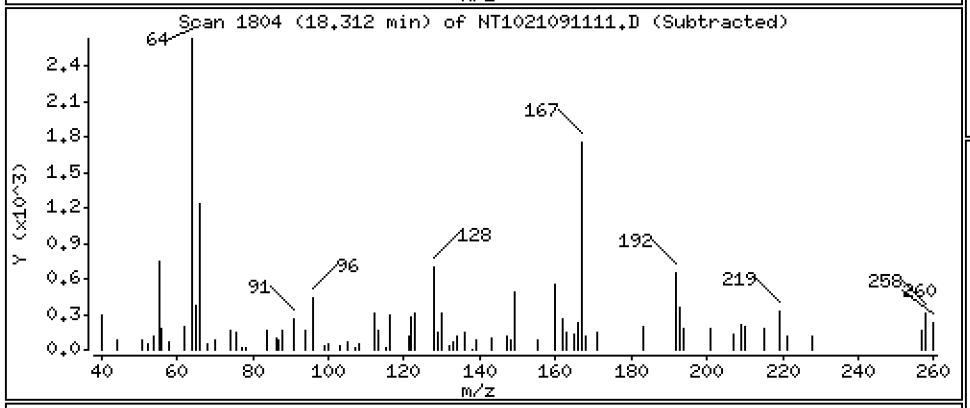
Column diameter: 0.25

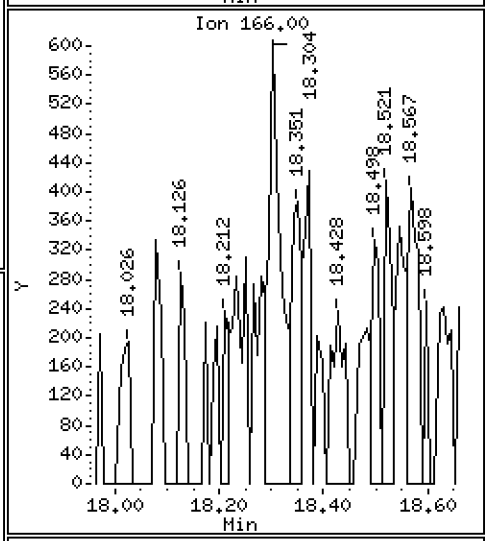
62 Carbazole

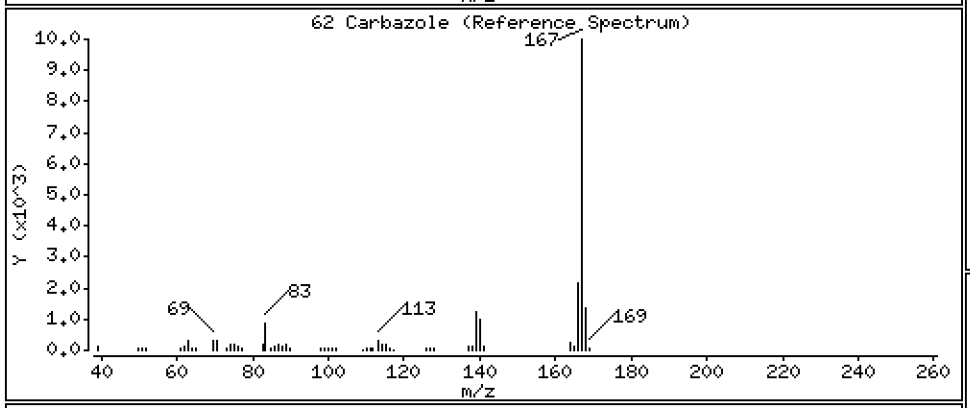
Concentration: 0.03230 ug/mL

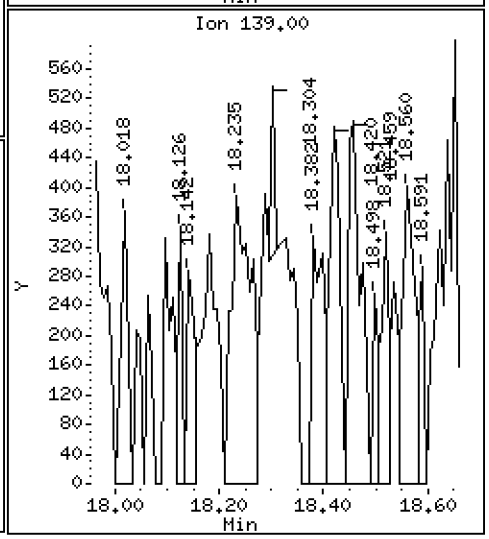


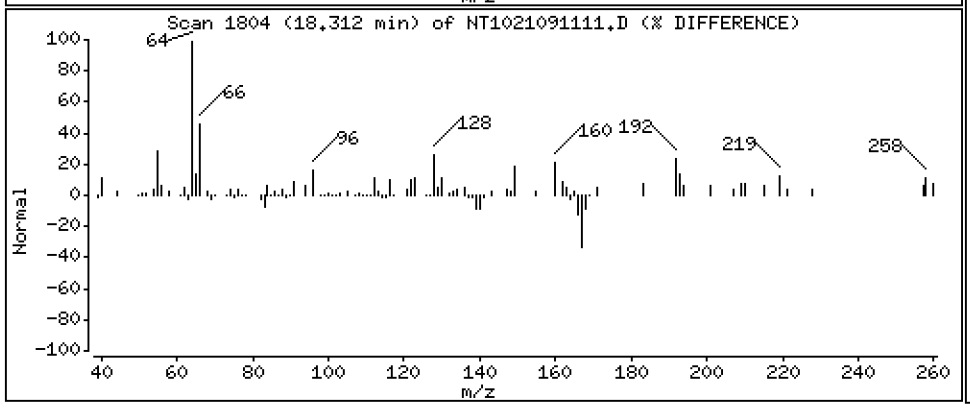












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

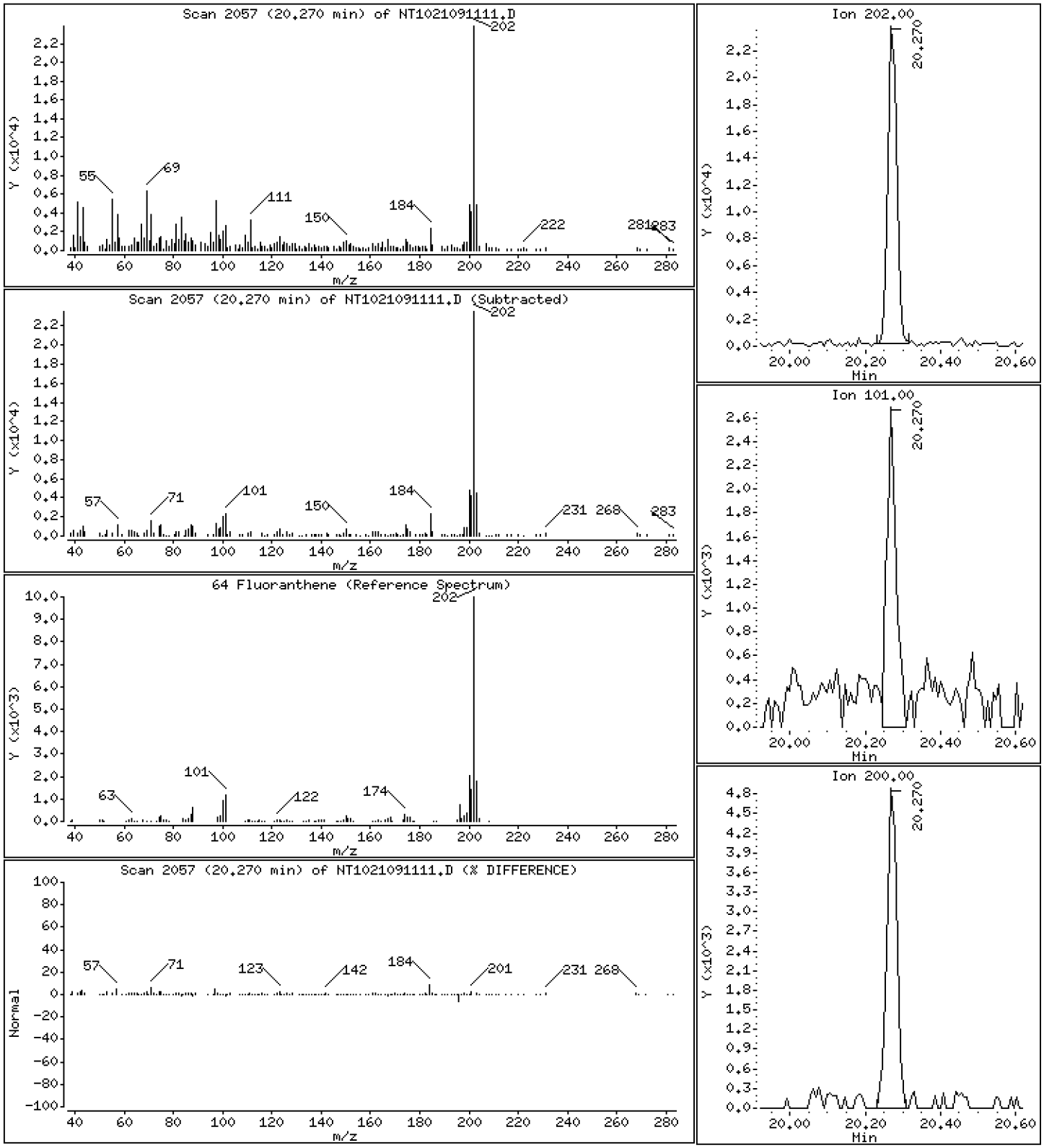
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

64 Fluoranthene

Concentration: 0.4852 ug/mL



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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

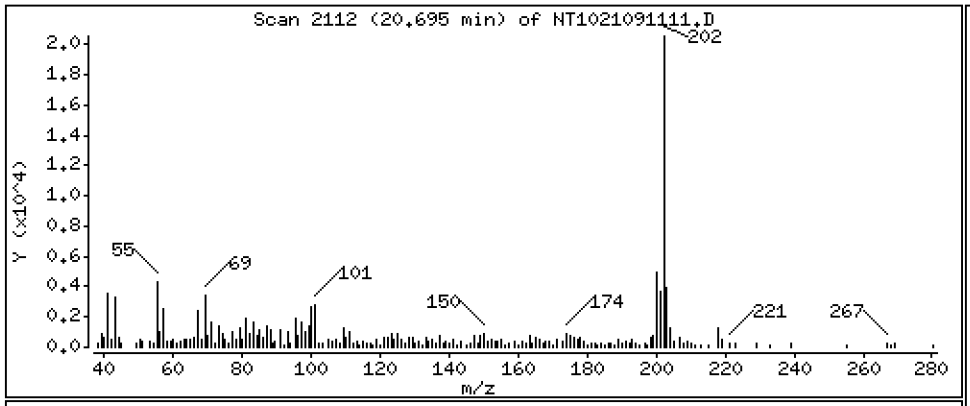
Operator: VTS

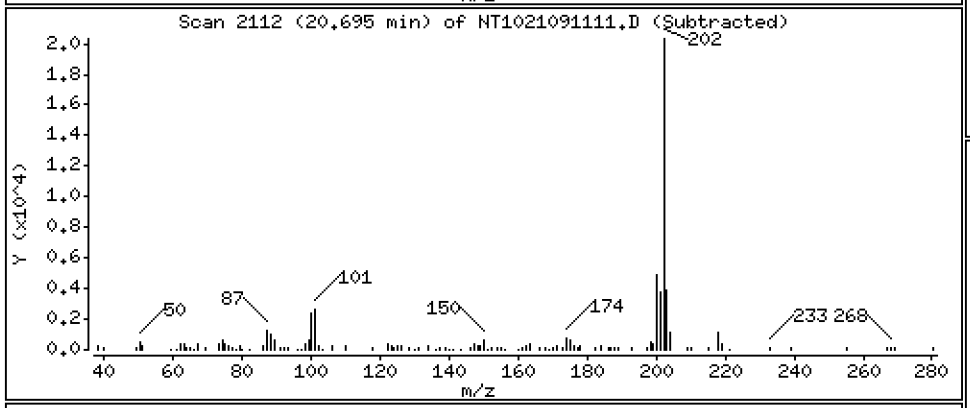
Column phase: ZB-5msi

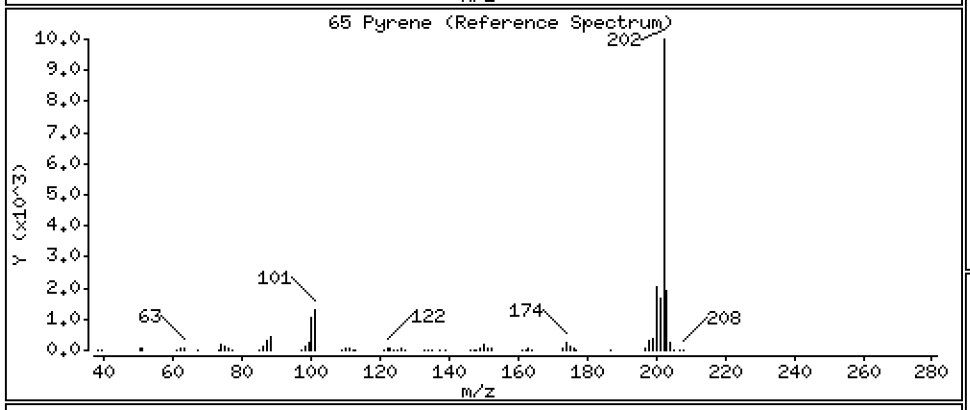
Column diameter: 0.25

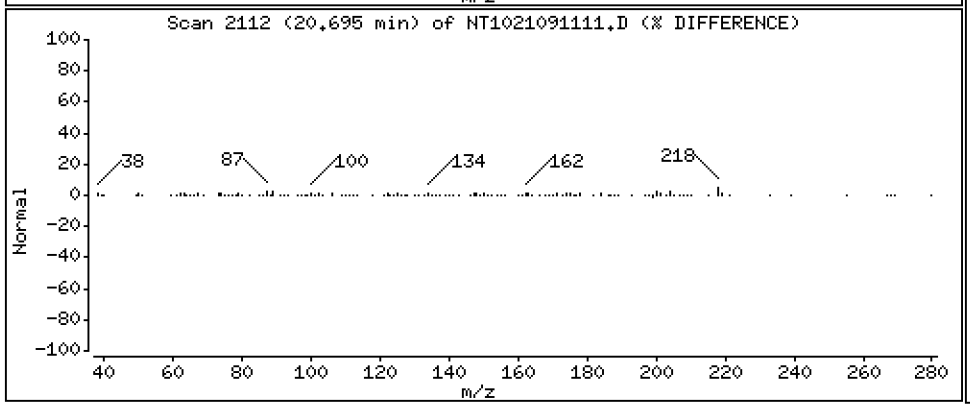
65 Pyrene

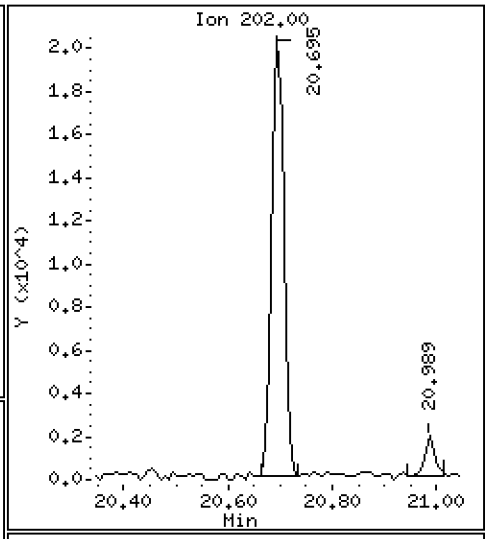
Concentration: 0.3989 ug/mL

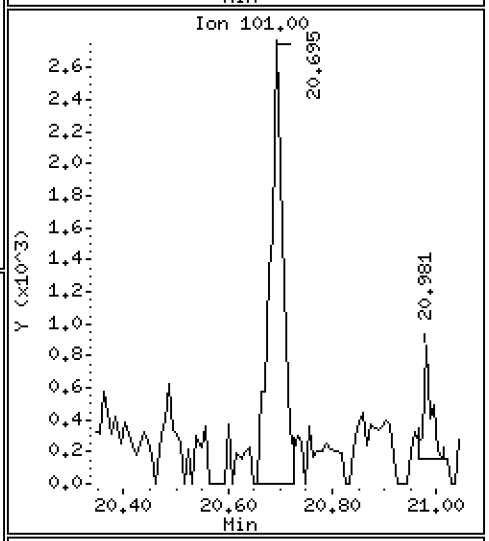


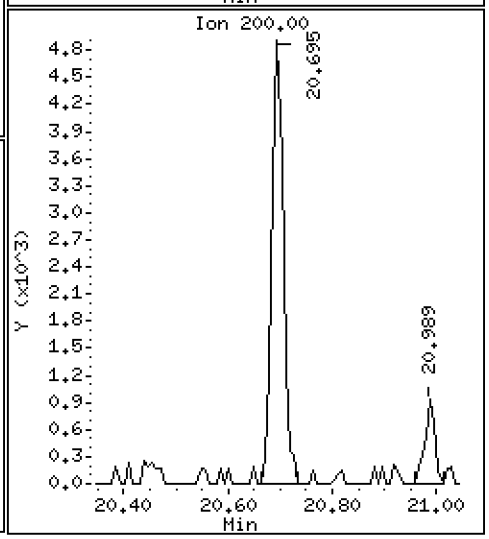












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

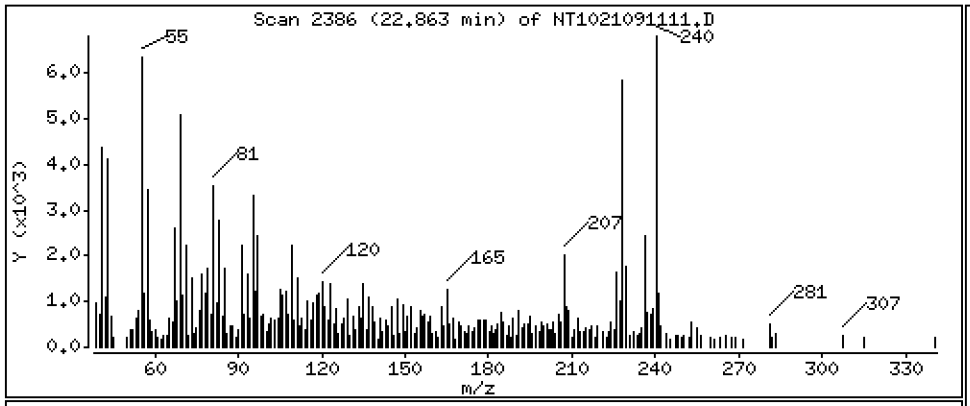
Operator: VTS

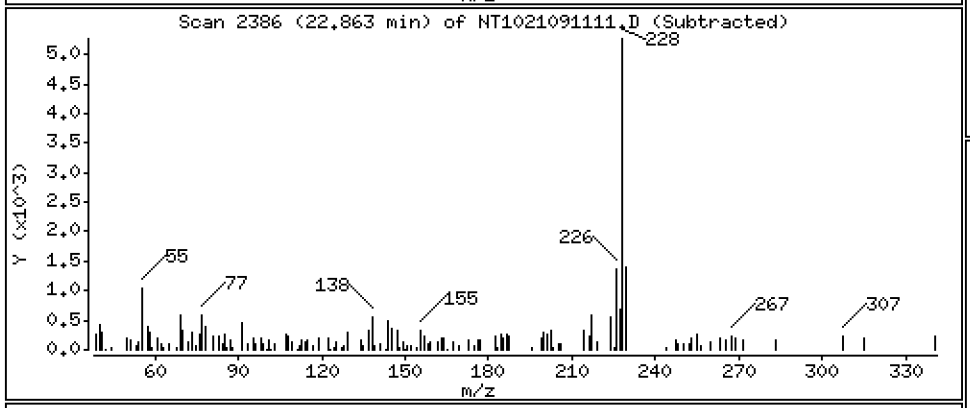
Column phase: ZB-5msi

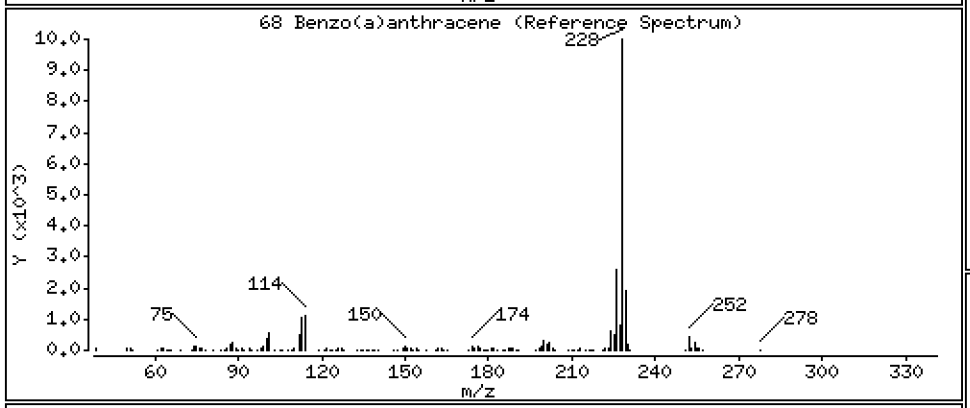
Column diameter: 0.25

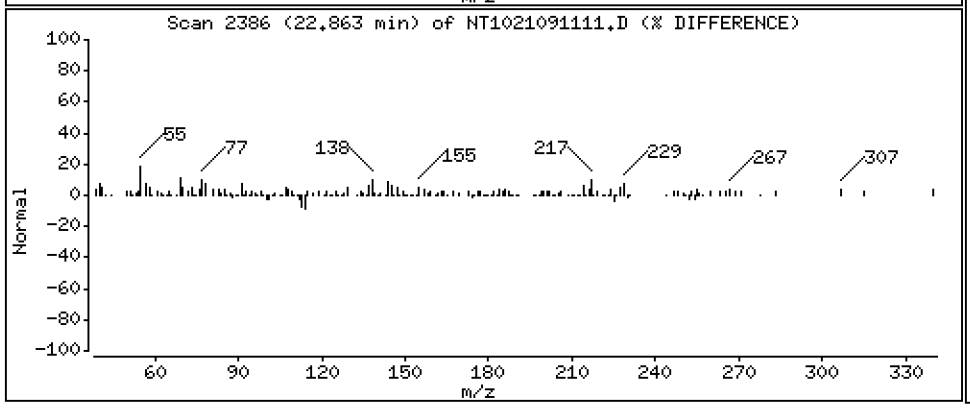
68 Benzo(a)anthracene

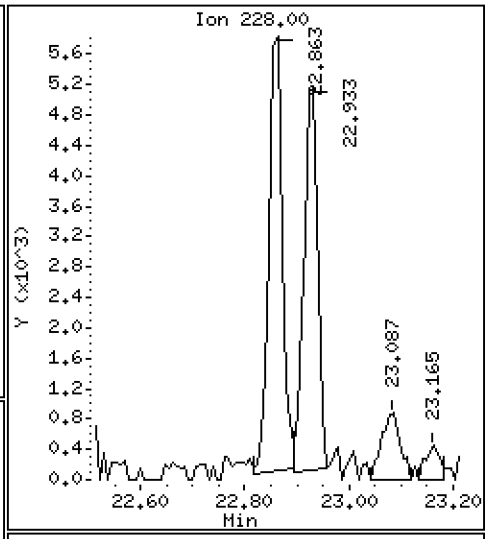
Concentration: 0.1630 ug/mL

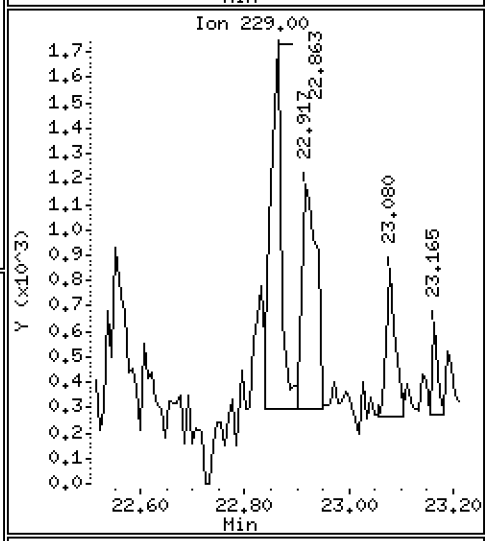


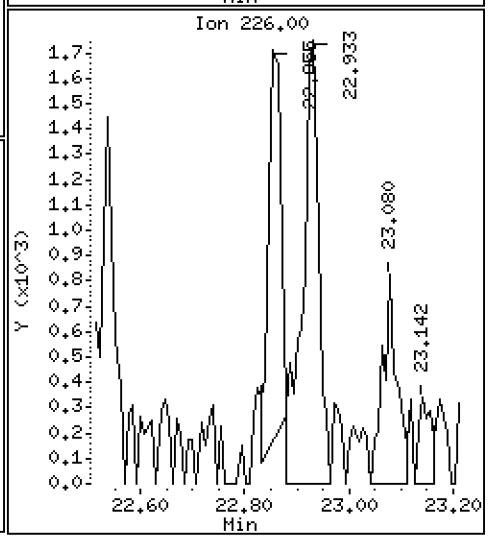












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

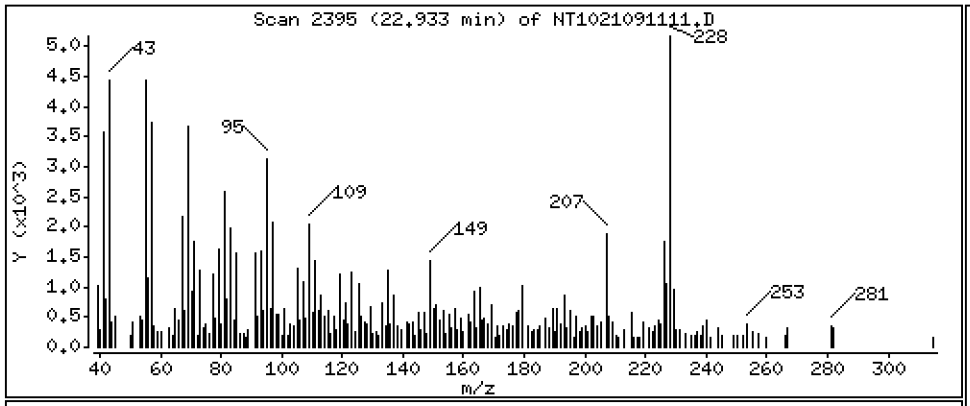
Operator: VTS

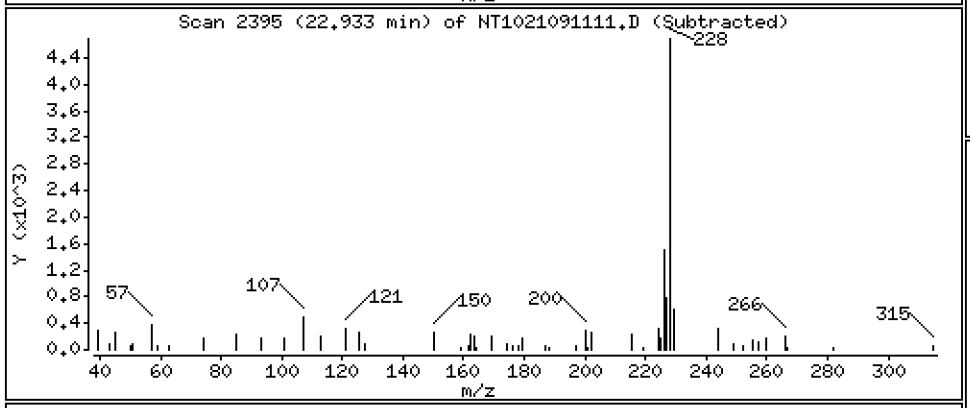
Column phase: ZB-5msi

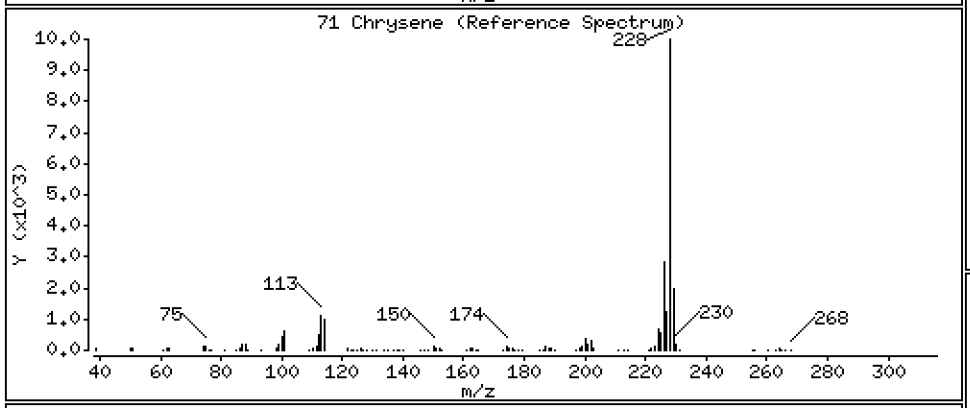
Column diameter: 0.25

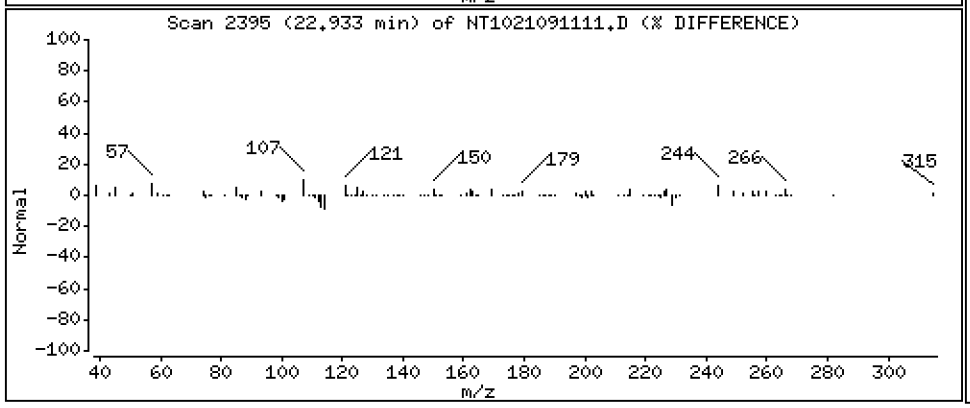
71 Chrysene

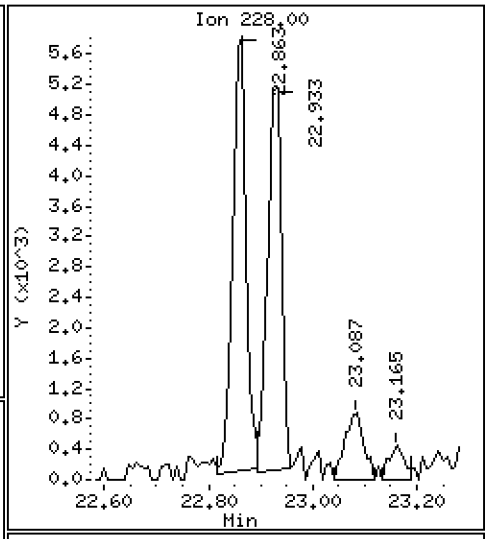
Concentration: 0.1890 ug/mL

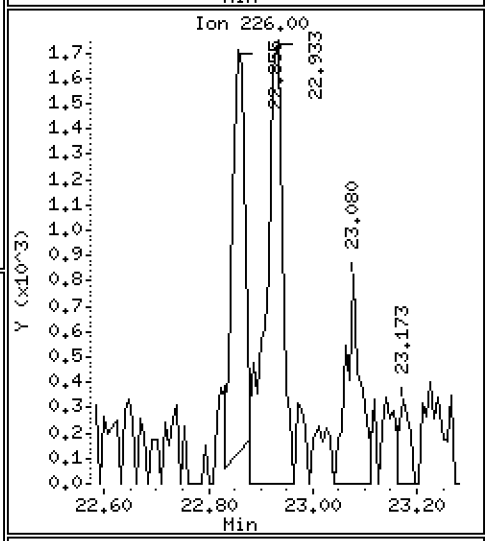


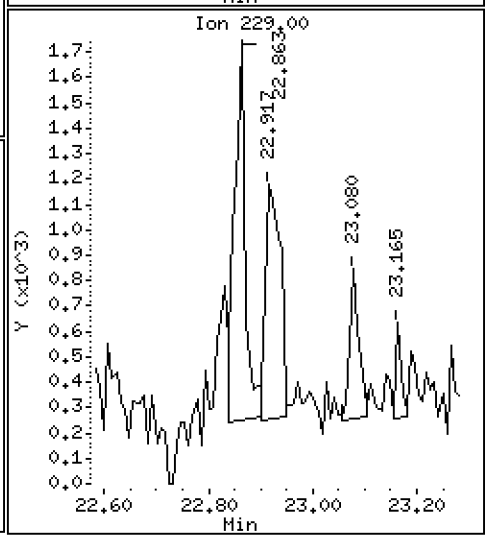












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

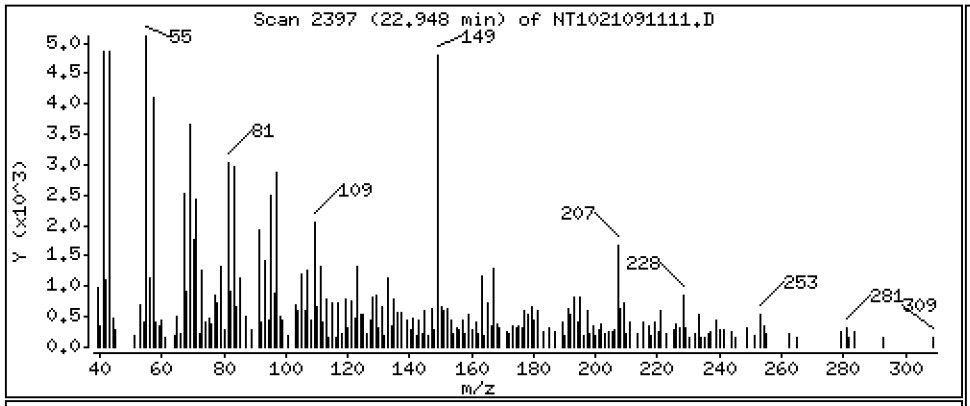
Operator: VTS

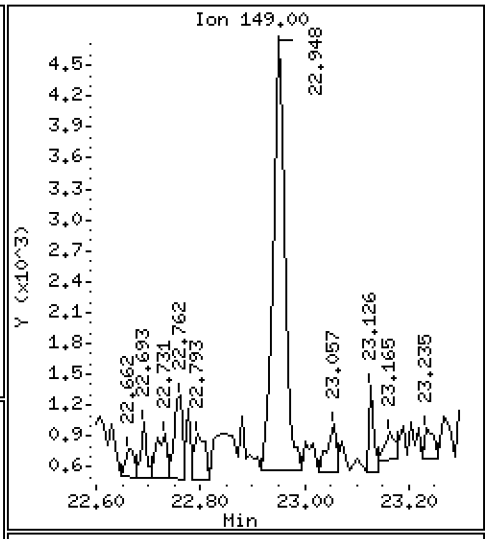
Column phase: ZB-5msi

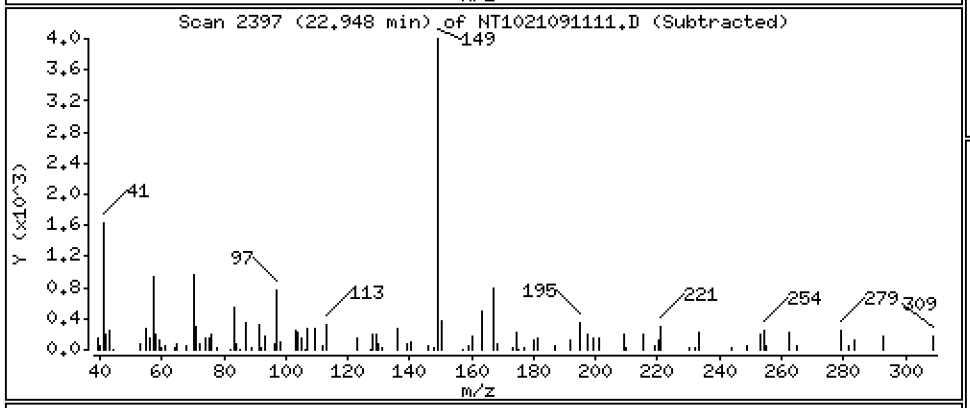
Column diameter: 0.25

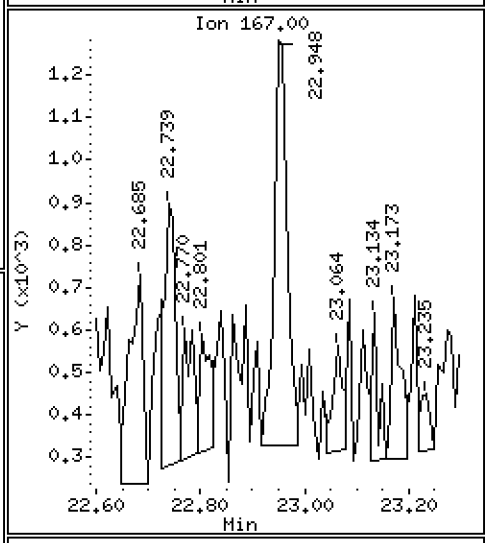
72 bis(2-Ethylhexyl)phthalate

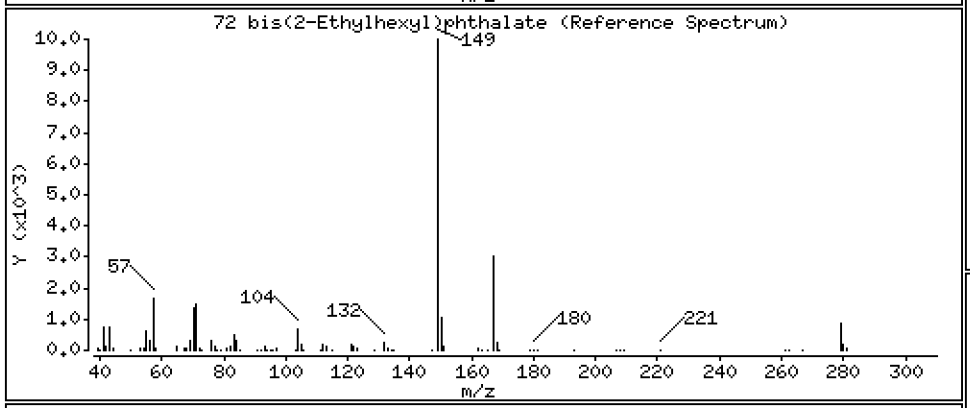
Concentration: 0.1660 ug/mL

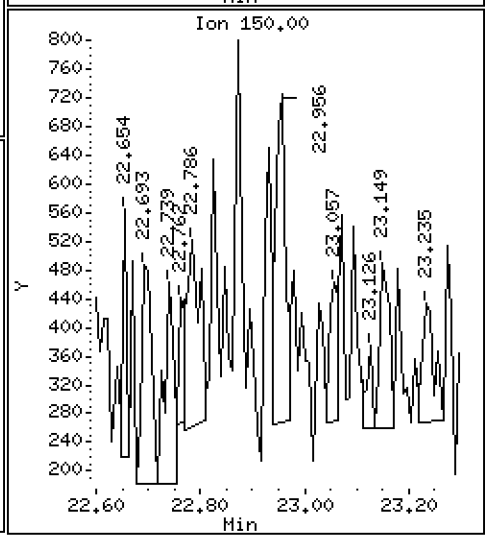


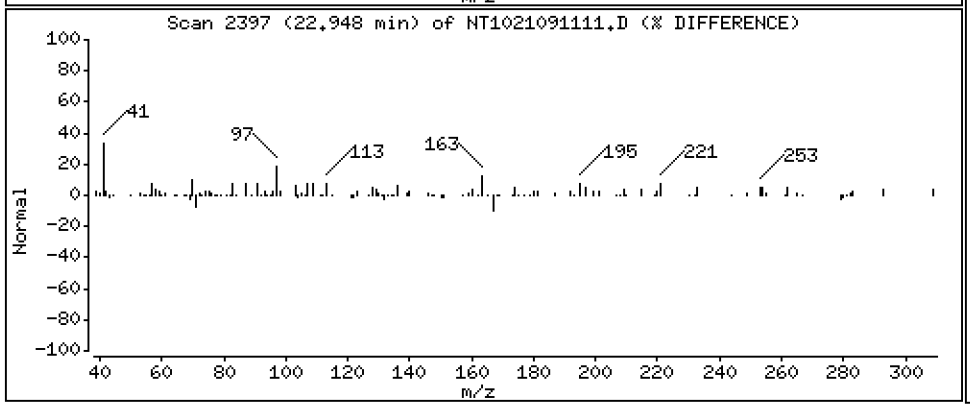












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

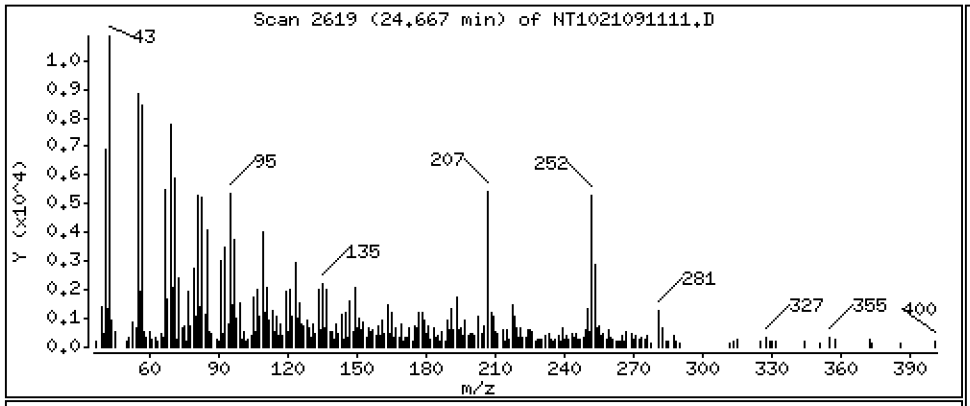
Operator: VTS

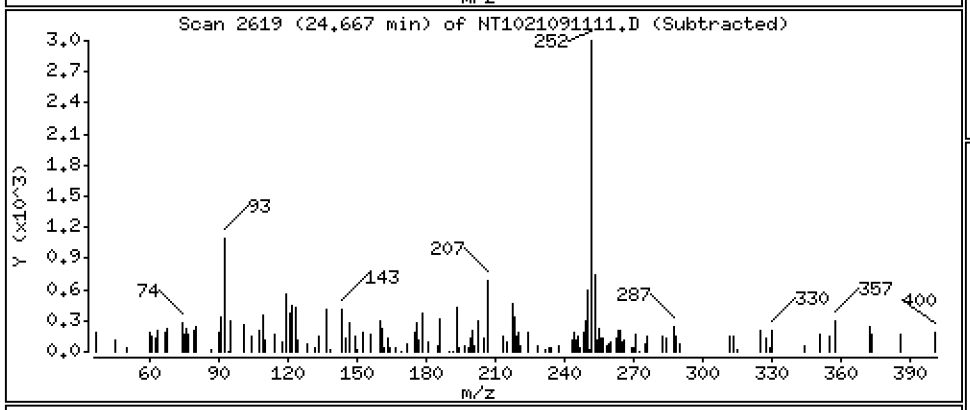
Column phase: ZB-5msi

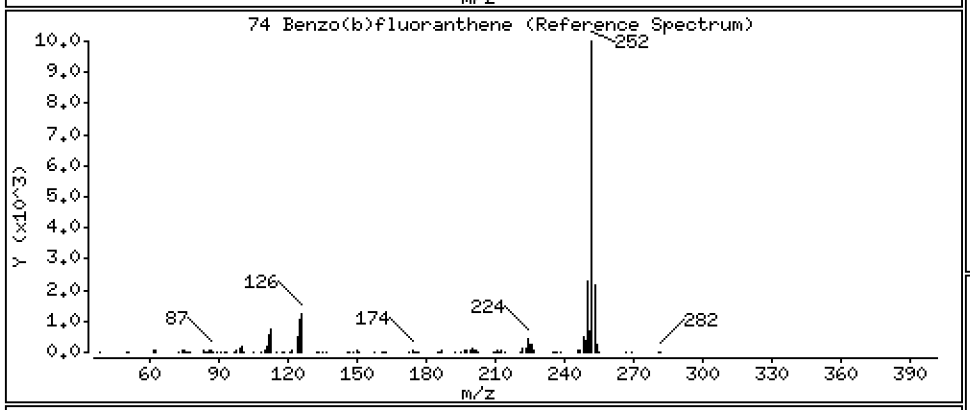
Column diameter: 0.25

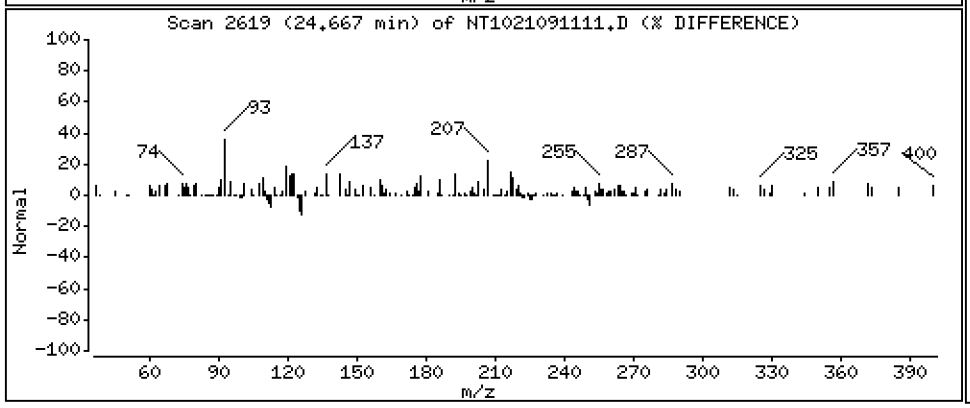
74 Benzo(b)fluoranthene

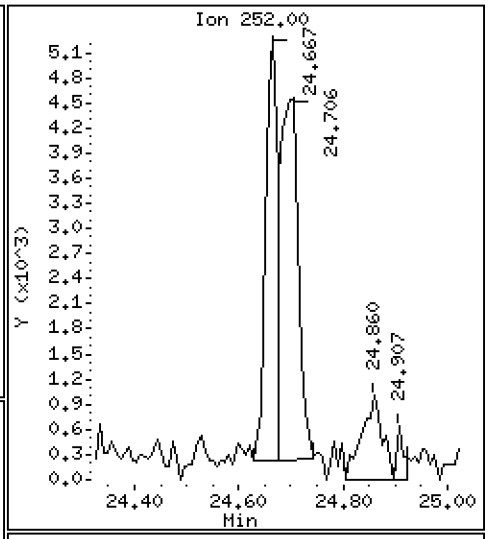
Concentration: 0.1344 ug/mL

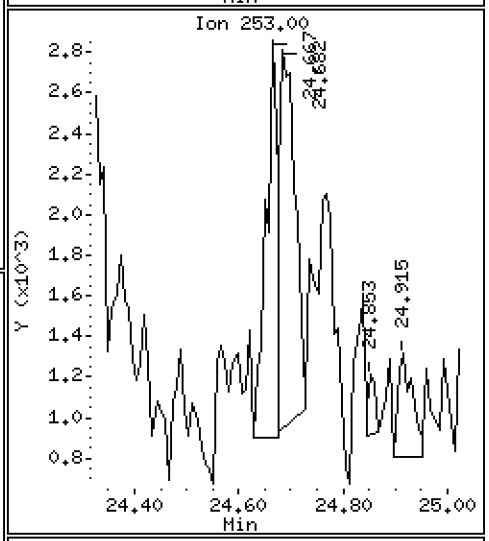


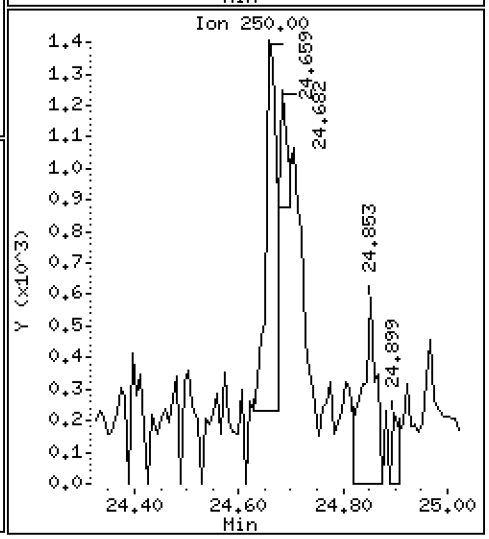












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

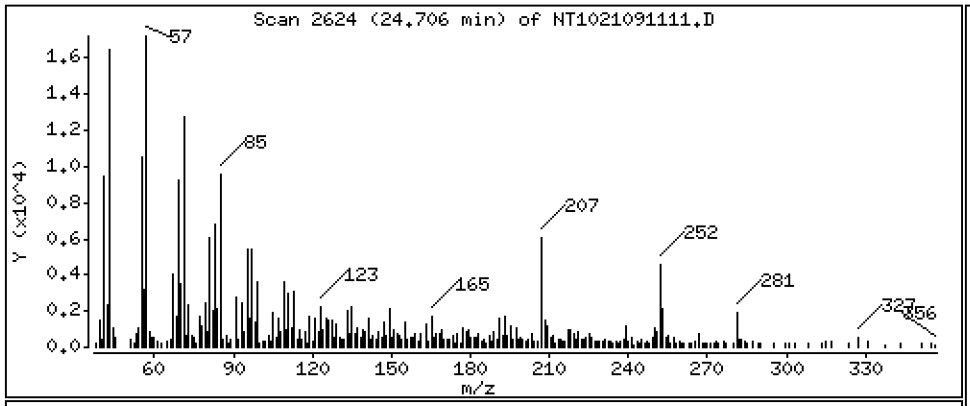
Operator: VTS

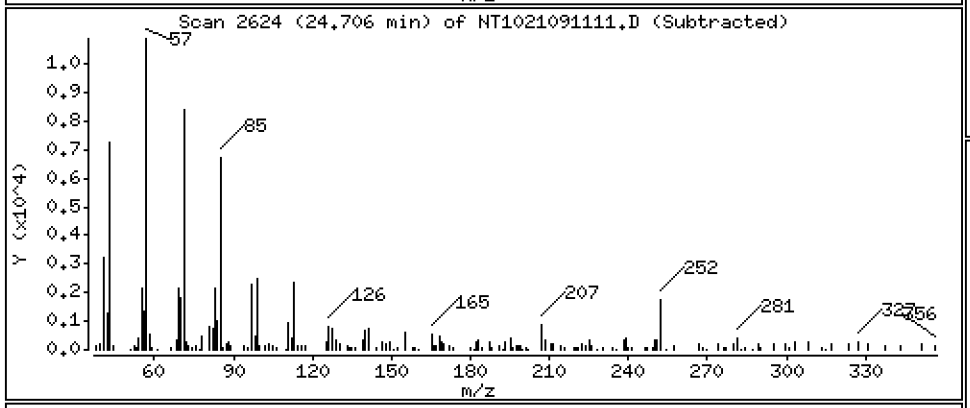
Column phase: ZB-5msi

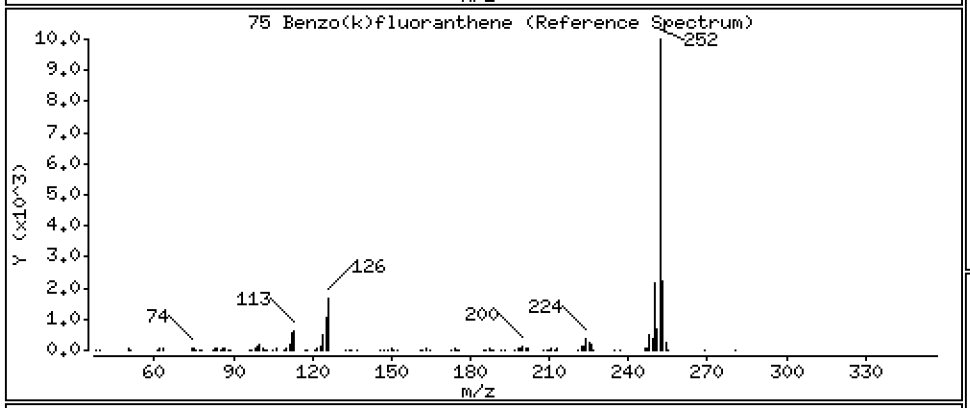
Column diameter: 0.25

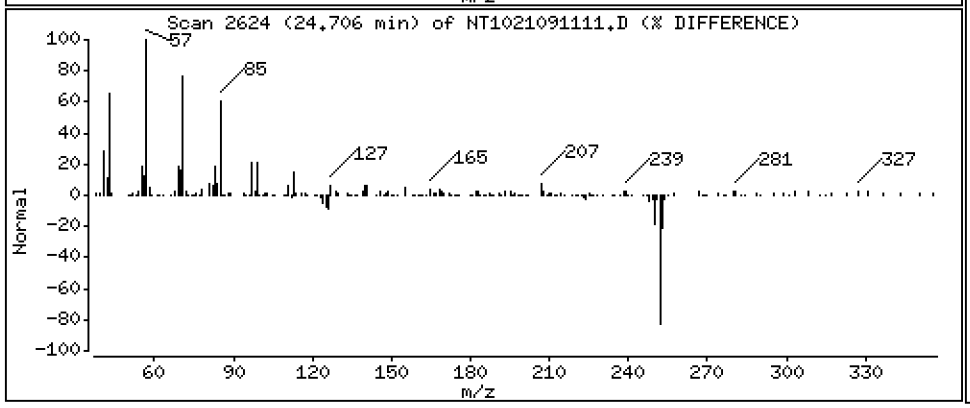
75 Benzo(k)fluoranthene

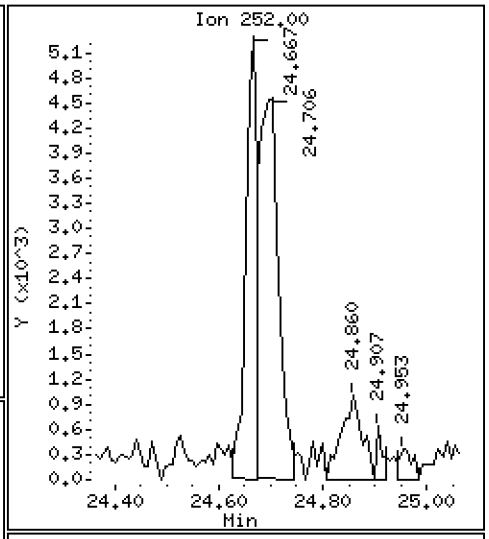
Concentration: 0.2260 ug/mL

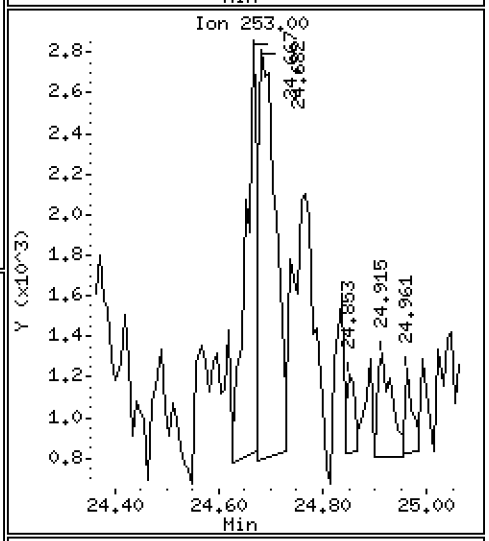


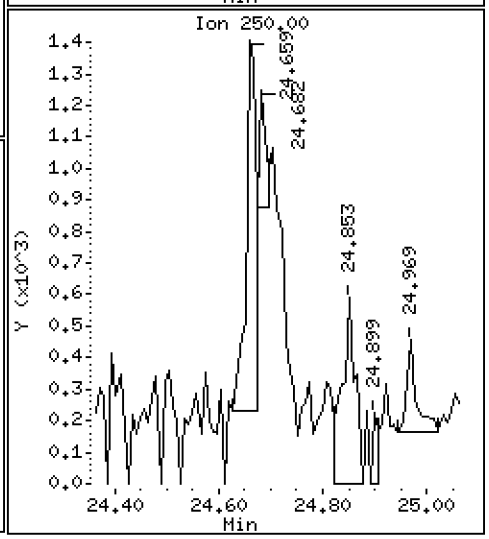












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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

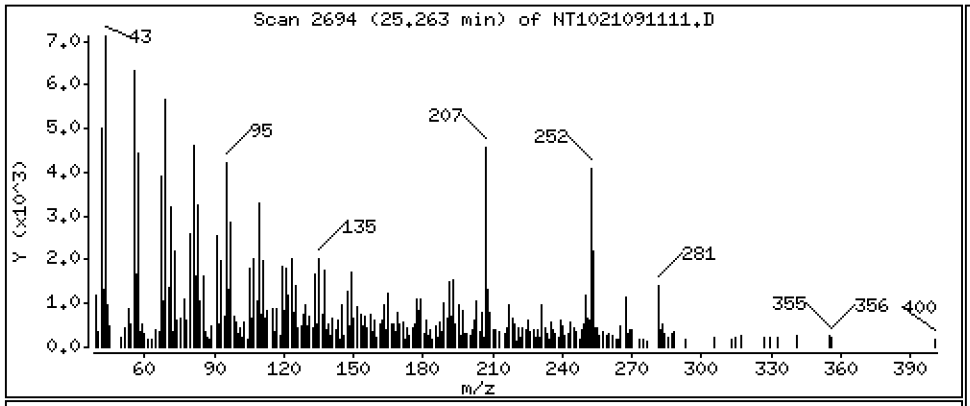
Operator: VTS

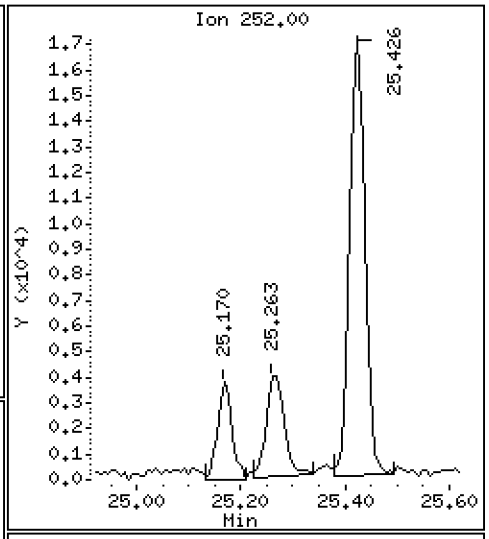
Column phase: ZB-5msi

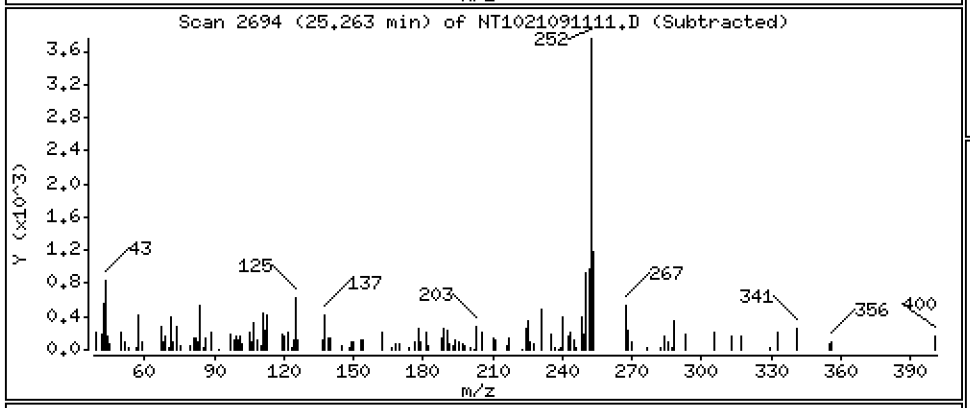
Column diameter: 0.25

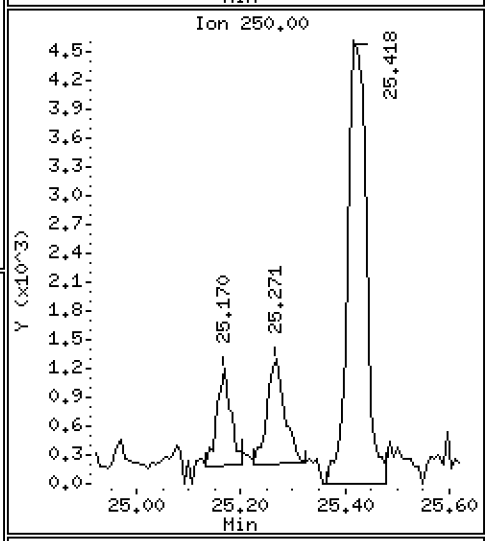
76 Benzo(a)pyrene

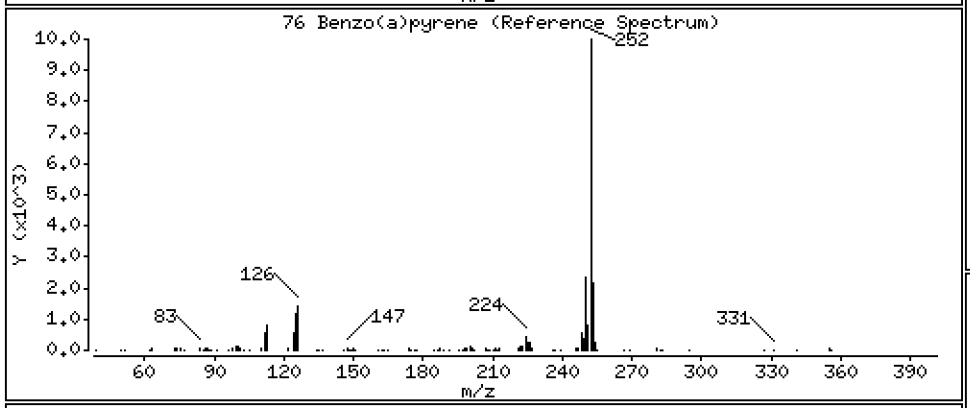
Concentration: 0.1869 ug/mL

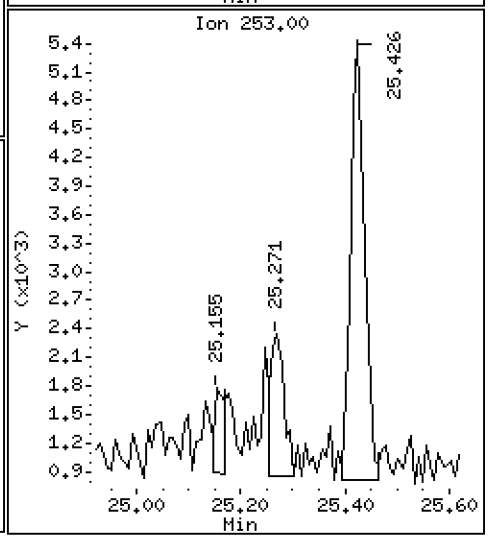


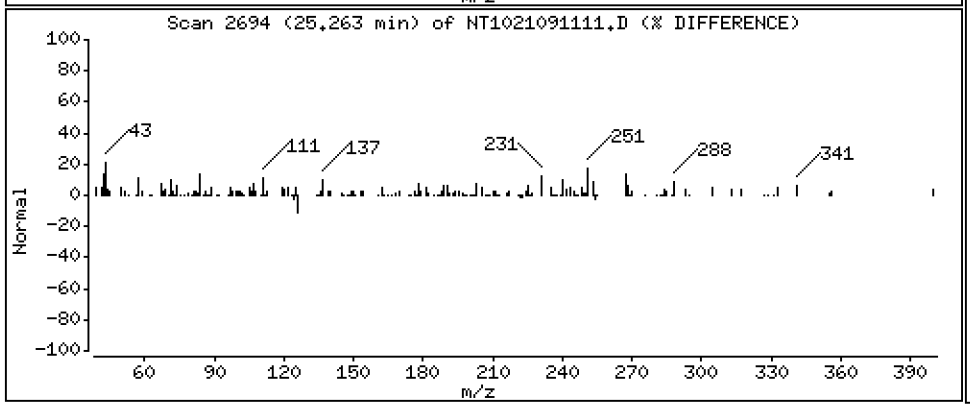












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

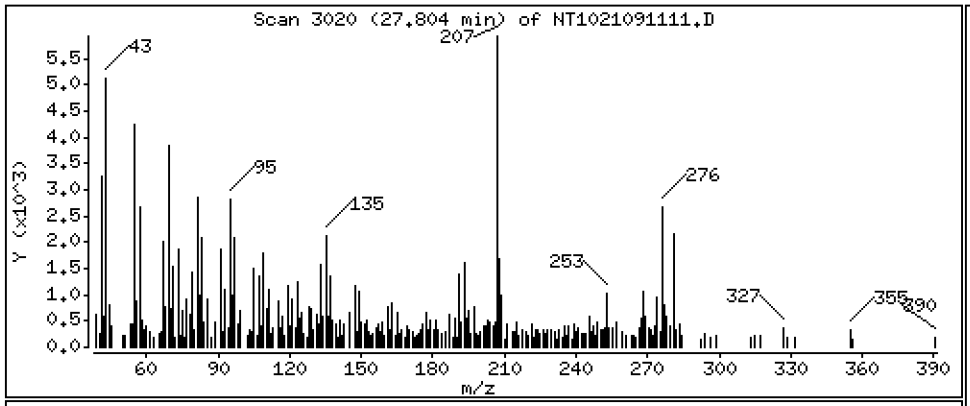
Operator: VTS

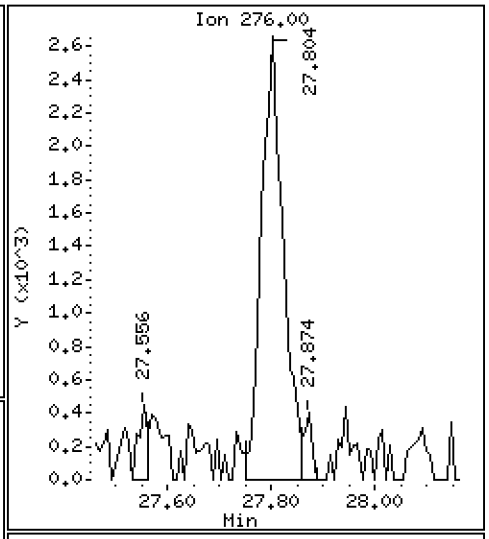
Column phase: ZB-5msi

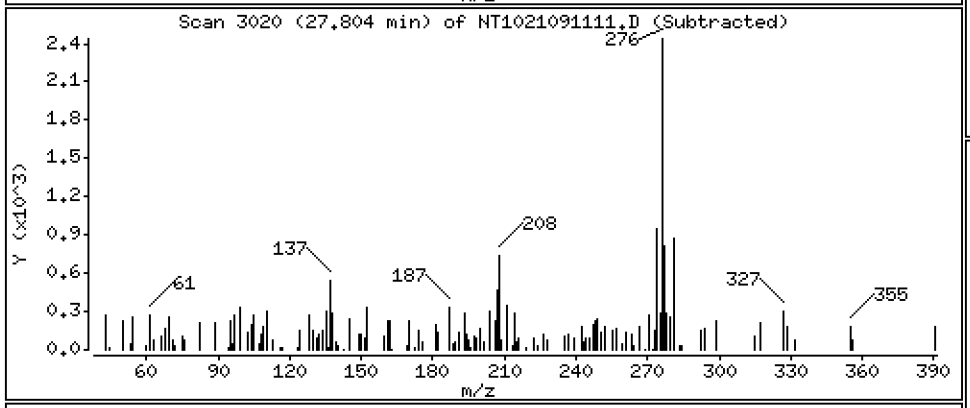
Column diameter: 0.25

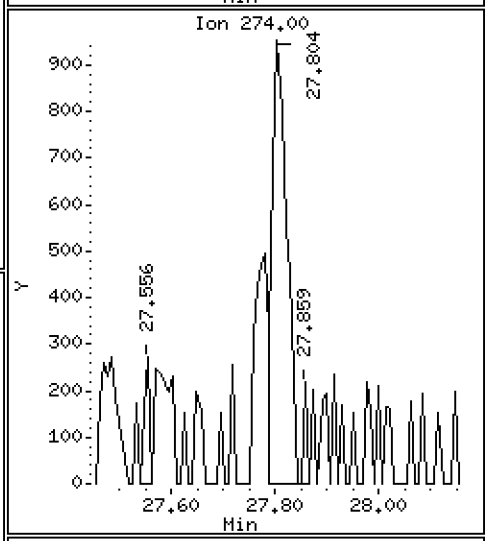
78 Indeno(1,2,3-cd)pyrene

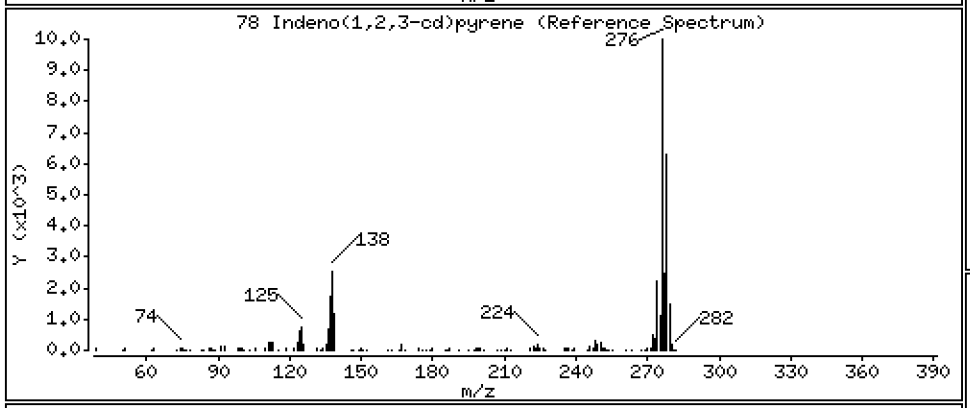
Concentration: 0.1511 ug/mL

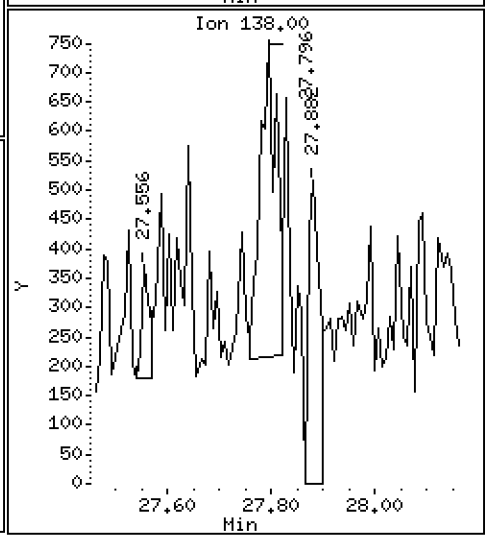


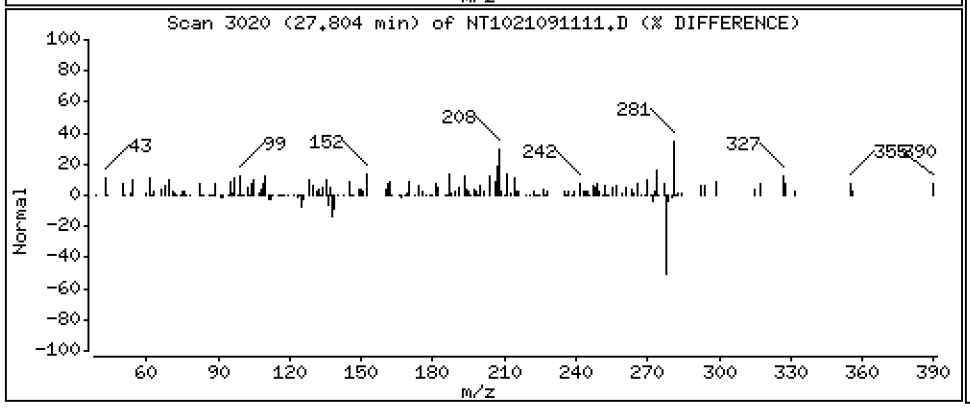












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D

Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

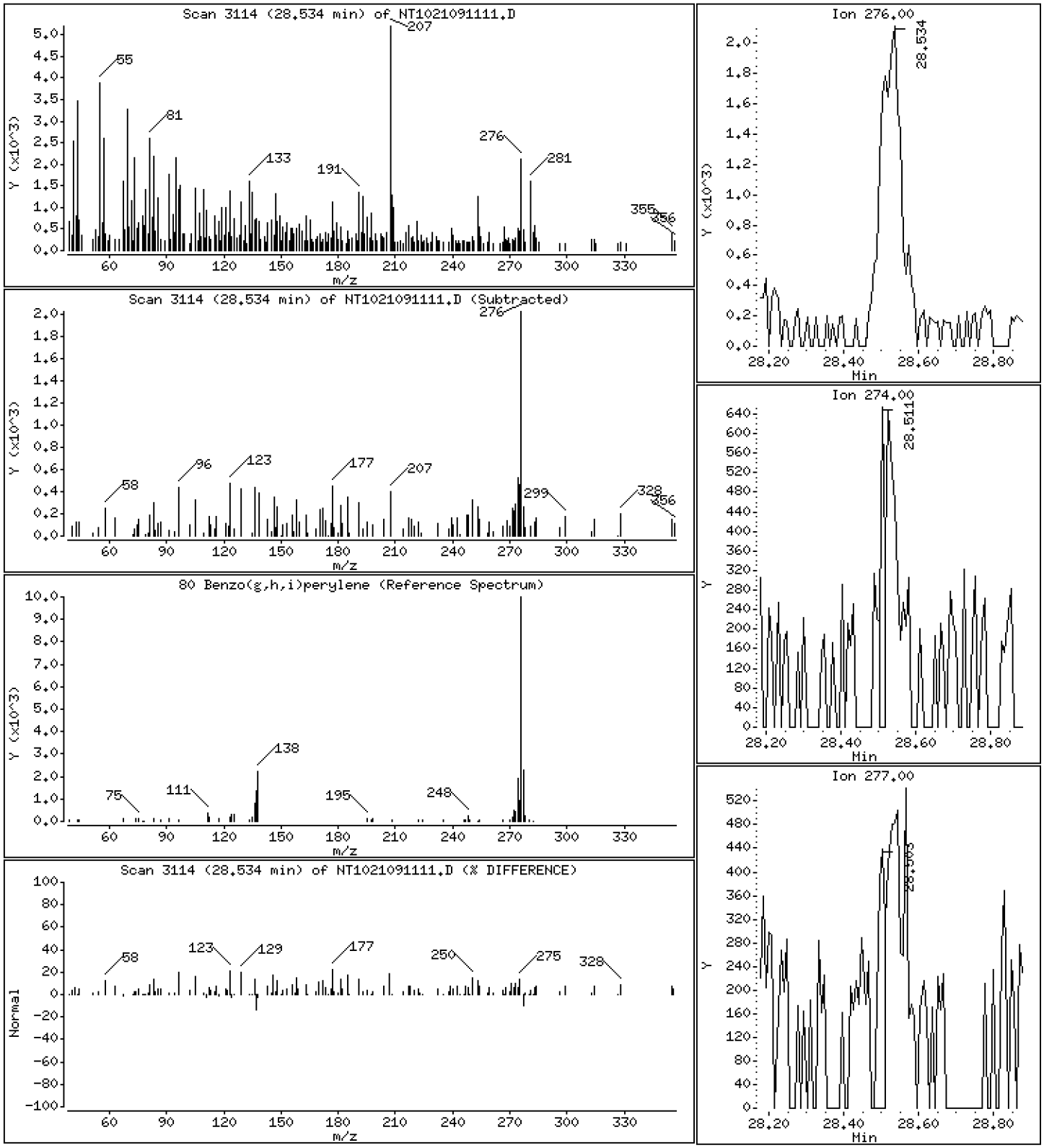
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

80 Benzo(g,h,i)perylene

Concentration: 0.1824 ug/mL



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Date : 11-SEP-2021 16:49

Client ID:

Instrument: nt10.i

Sample Info: 21H0263-01

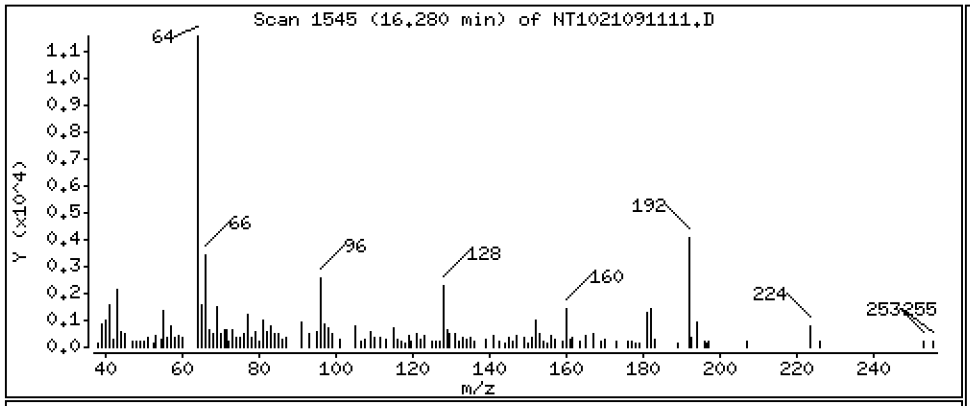
Operator: VTS

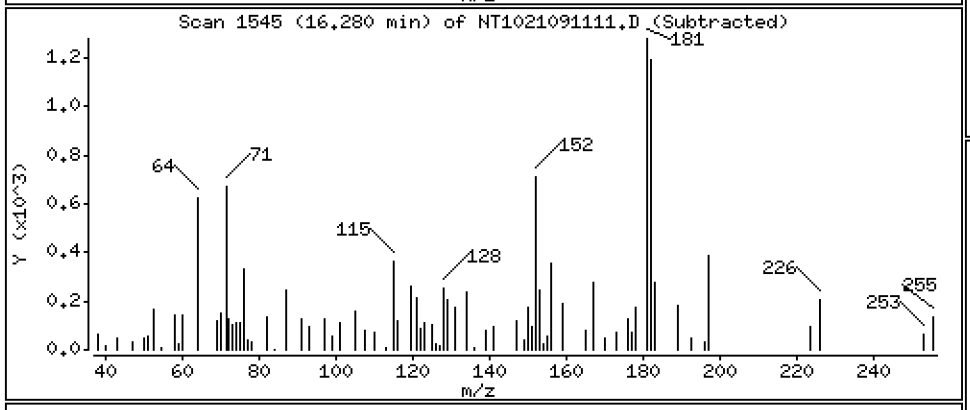
Column phase: ZB-5msi

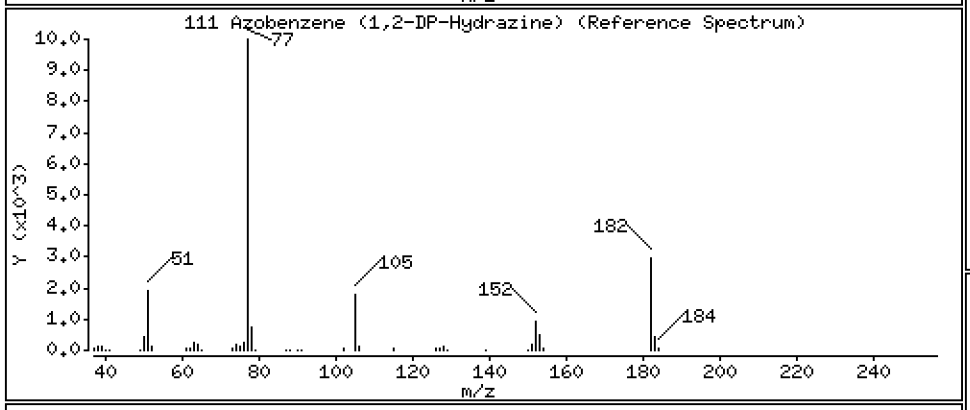
Column diameter: 0.25

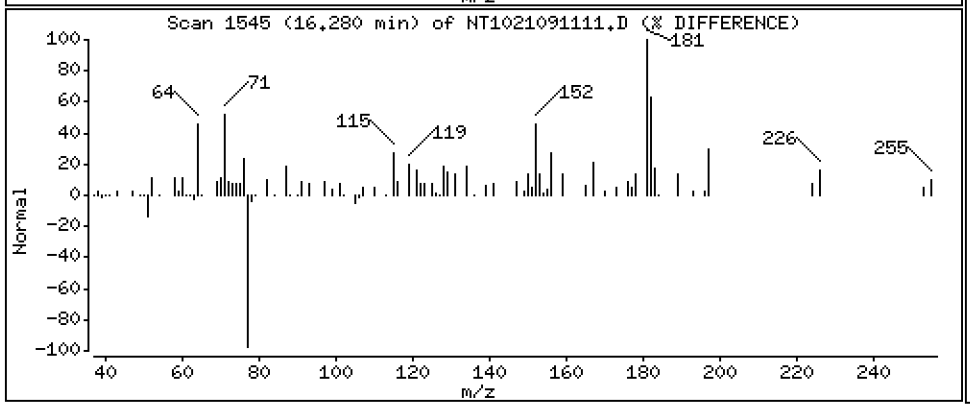
111 Azobenzene (1,2-DP-Hydrazine)

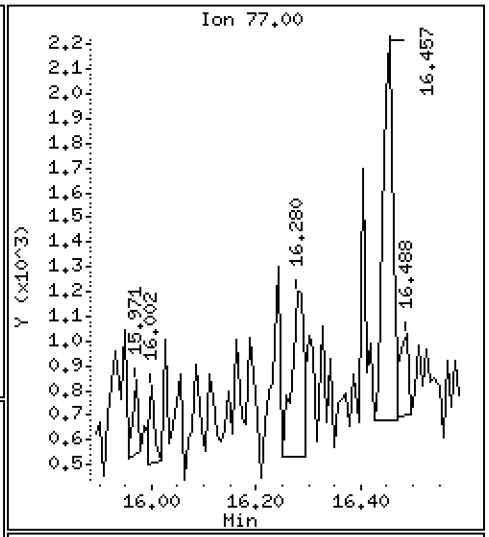
Concentration: 0.01224 ug/mL

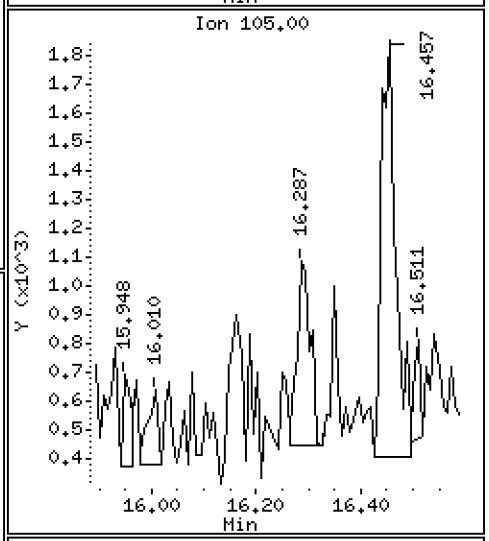


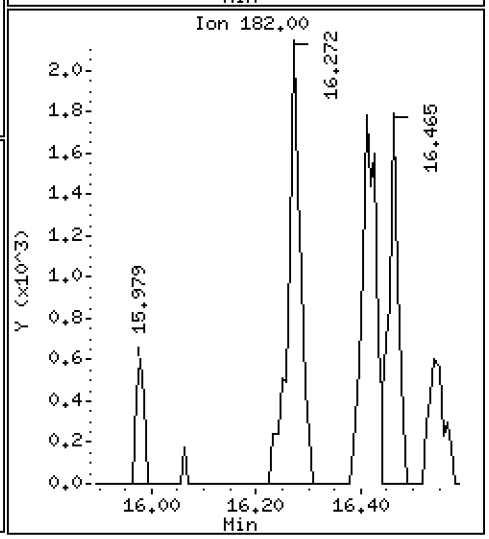












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091111.D
Lab Smp Id: 21H0263-01
Inj Date : 11-SEP-2021 16:49
Operator : VTS Inst ID: nt10.i
Smp Info : 21H0263-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1 2-Fluorophenol	112	6.643	6.635	(0.754)	432346	9.11197	9.112
$ 2 Phenol-d5	99	8.212	8.204	(0.932)	752513	11.0810	11.08
3 Phenol	94	Compound Not Detected.					
$ 5 2-Chlorophenol-d4	132	8.459	8.459	(0.960)	622110	12.8601	12.86
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	8.815	8.815	(1.000)	141922	4.00000	
9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10 1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	265481	8.07908	8.079
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	9.591	9.584	(1.088)	12310	0.29274	0.2927
$ 18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	496045	9.38253	9.383
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	10.724	10.834	(0.952)	11795	0.54512	0.5451(M)
25 2,4-Dichlorophenol	162	Compound Not Detected.					
26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27 Naphthalene-d8	136	11.260	11.260	(1.000)	504939	4.00000	
28 Naphthalene	128	11.306	11.306	(1.004)	4661	0.03721	0.03721
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	12.675	12.675	(1.126)	3038	0.02541	0.02541
33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.908)	1044359	9.36753	9.368
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	14.827	14.835	(1.000)	279049	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	14.896	14.896	(1.005)	1658	0.02267	0.02267
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.221	15.221	(1.027)	3127	0.02406	0.02406
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	15.785	15.793	(1.065)	11190	0.13565	0.1356
	49 Fluorene	166	15.924	15.925	(1.074)	3393	0.02941	0.02941
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.456	16.457	(1.110)	180402	16.5734	16.57
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	17.832	17.832	(1.000)	441318	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	19281	0.17895	0.1789
	61 Anthracene	178	17.971	17.979	(1.008)	7221	0.06238	0.06238
	62 Carbazole	167	18.312	18.312	(1.027)	3851	0.03230	0.03230
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	20.269	20.269	(0.886)	36610	0.48517	0.4852
	65 Pyrene	202	20.695	20.695	(0.904)	30893	0.39890	0.3989
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	498146	10.2363	10.24
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	22.862	22.863	(0.999)	9814	0.16296	0.1630
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	172387	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	22.932	22.932	(1.002)	9026	0.18905	0.1890
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	6154	0.16602	0.1660
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	385159	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	24.666	24.674	(0.972)	7640	0.13442	0.1344
	75 Benzo(k)fluoranthene	252	24.705	24.713	(0.974)	12594	0.22604	0.2260
	76 Benzo(a)pyrene	252	25.263	25.270	(0.996)	9386	0.18694	0.1869
*	77 Perylene-d12	264	25.371	25.379	(1.000)	154485	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.804	27.812	(1.096)	7837	0.15110	0.1511
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	28.534	28.526	(1.125)	8261	0.18238	0.1824(M)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.279	16.241	(1.098)	1165	0.01224	0.01224
	187 Total Benzofluoranthenes	252	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
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: nt10.i
Lab File ID: NT1021091111.D
Lab Smp Id: 21H0263-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	141922	3.06
27 Naphthalene-d8	447216	223608	894432	504939	12.91
42 Acenaphthene-d10	264765	132383	529530	279049	5.39
59 Phenanthrene-d10	428682	214341	857364	441318	2.95
69 Chrysene-d12	221118	110559	442236	172387	-22.04
134 Di-n-octylphthala	404470	202235	808940	385159	-4.77
77 Perylene-d12	154408	77204	308816	154485	0.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	-0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	-0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.83	-0.05
59 Phenanthrene-d10	17.83	17.33	18.33	17.83	-0.00
69 Chrysene-d12	22.89	22.39	23.39	22.89	-0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	-0.00
77 Perylene-d12	25.38	24.88	25.88	25.37	-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 - NT1021091111.D

Lab ID: 21H0263-01
nt10.i, ABN.m, 11-SEP-2021 16:49

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.962	-0.0098	Benzoic acid

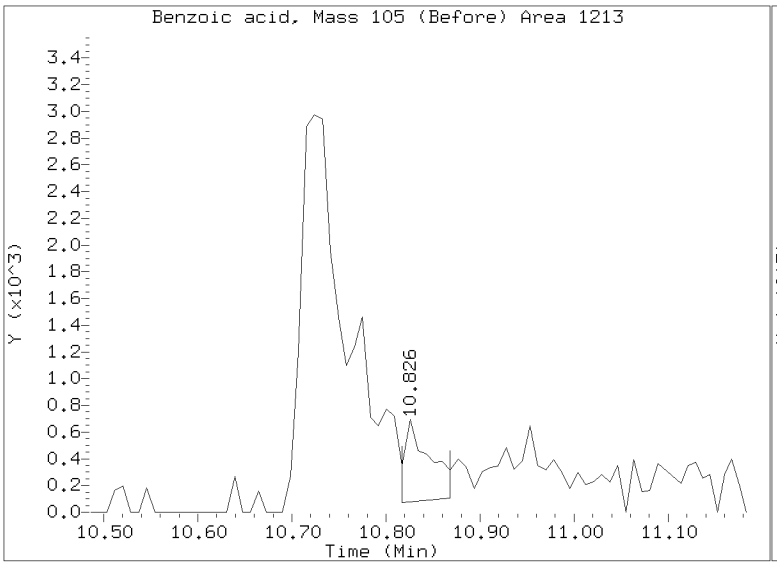
RRT check based on Ccal File: NT1021091106.D

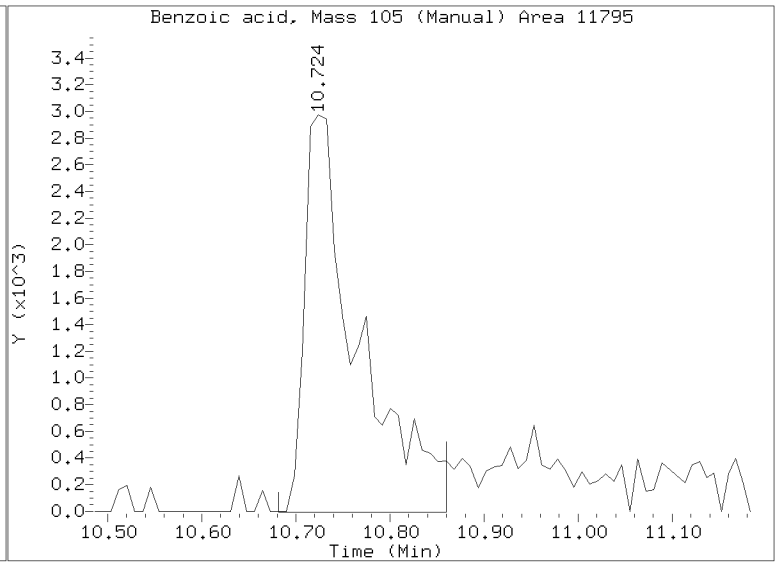
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

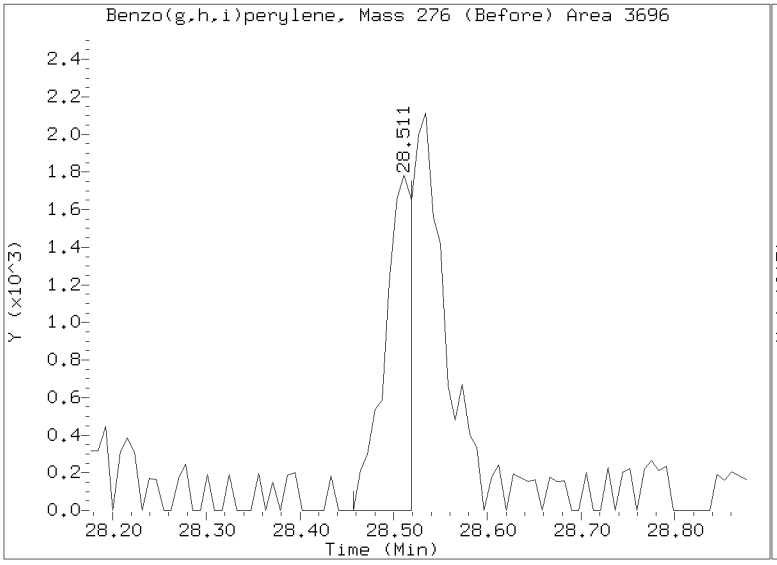
* Only compounds listed in the work order have been verified by the analyst *

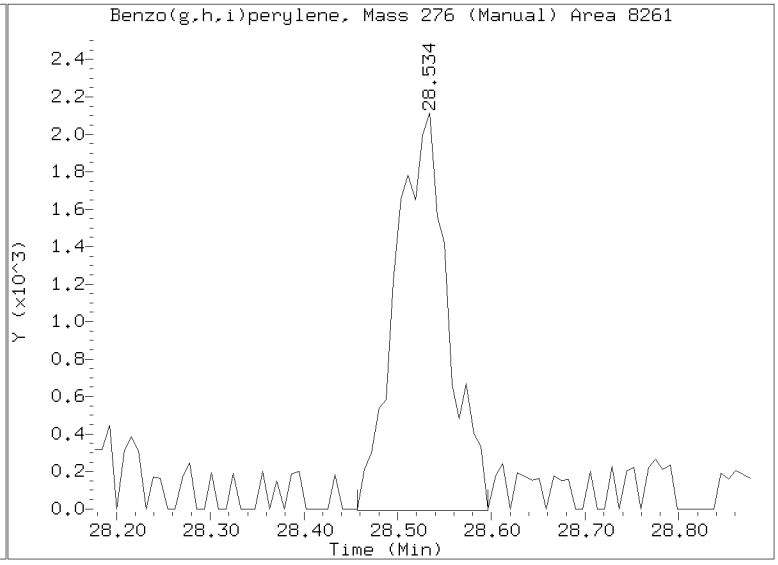
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210911.b/NT1021091111.D
Injection Date: 11-SEP-2021 16:49
Lab ID:21H0263-01 Client ID:
Report Date: 09/12/2021 15:17









Analytical Resources, Incorporated
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Batch:	BJH0655 Batch Matrix: Solid	Preparation:	EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW20-IT384	21H0263-01	NT1021091111.D	08/30/21 12:10	
Blank	BJH0655-BLK1	NT1021091107.D	08/30/21 12:10	
LCS	BJH0655-BS1	NT1021091108.D	08/30/21 12:10	
LCS Dup	BJH0655-BSD1	NT1021091109.D	08/30/21 12:10	
LDW20-IT384	BJH0655-MS1	NT1021091112.D	08/30/21 12:10	
LDW20-IT384	BJH0655-MSD1	NT1021091113.D	08/30/21 12:10	
Reference	BJH0655-SRM1	NT1021091110.D	08/30/21 12:10	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RUSH

ORGANICS PREPARATION BENCH SHEET

Batch: BJH0655

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid **Date Prepared:** 08/30/21 **Balance ID:** B139298002 **Set Up By:** CTO 8/26/21

WO Comments

21H0261: As 6020 followup if 6010 RL is >10 mg/kg.
Grain Size to Amtest. PSEP, no hydro + EDD.
<E>Decant okay</E>

16 oz Extractions, 4 oz share, Ziploc AmTest if other ask
Limited Volume Priority
PCB
Metals
SVOC
TOC
TPHd
Grainsize
21H0262: <E>Decant ok. Dx A/S 2XSur w/GPC. SVOC/PCB 2XSur</E>
<M>ICP/MS follow-up for As if 6010 ND w RL >10 mg/kg</M>

16oz Ext, 4oz share, Ziploc AmTest.
<G>If very wet solids centrifuge, disp H2O. Priority PCB
Met, SVOC, TOC, Dx, Grain Size</G>
21H0263: Copy/Relog from 20F0432. <G> Project batch as mcuh as possible </G> <C> SRM, MS, Rep </C> <M> PS, MS/MSD </M> <E>8270E RM H002055, SIM RM H010158, PCB RM H009325/G00544, MS/MSD </E>
<H> RM H009325, Dup </H>

The following standards may be missing from this batch!

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

DM 9-10-21

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet)	Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
21H0261-02 A	32.6	(30.68)	34.70	1:10 (1:1)	1mL	~~1~~ ~~X~~10	0.5	2x Surrogate
21H0261-03 A	26.8	~~(37.25)~~ (10.00)	10.00	1:10 (1:1)	1mL	~~1~~ ~~X~~10	0.5	
21H0261-04 A	54.2	(18.46)	18.46	1:10 (1:1)	1mL	~~1~~ ~~X~~10	0.5	
21H0262-01 A	42.7	(23.44)	23.45	1:10 (1:1)	1mL	~~1~~ 10	0.5	
21H0263-01 A	76.2	(13.12)	13.12	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet)	Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BJH0655-BLK1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BJH0655-BS1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BJH0655-BSD1	100.0	(10.00)	10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BJH0655-MS1	76.2	(13.12)	13.12	(1:1)	1mL	1	0.5	Use 21H0263-01 2x Sur
BJH0655-MSD1	76.2	(13.12)	13.12	(1:1)	1mL	1	0.5	Use 21H0263-01
BJH0655-SRM1	100.0	~~(10.00)~~ (1.00)	1.00	(1:1)	1mL	1	0.5	Use I005667

+1g DI H2O

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Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BJH0655

Prepared using: EPA 3546 (Microwave)

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

WO Comments

21H0261: As 6020 followup if 6010 RL is >10 mg/kg.
Grain Size to Amtest. PSEP, no hydro + EDD.
<E>Decant okay</E>

16 oz Extractions, 4 oz share, Ziploc AmTest if other ask
Limited Volume Priority
PCB
Metals
SVOC
TOC
TPHd
Grainsize
21H0262: <E>Decant ok. Dx A/S 2XSur w/GPC. SVOC/PCB 2XSur</E>
<M>ICP/MS follow-up for As if 6010 ND w RL >10 mg/kg</M>

16oz Ext, 4oz share, Ziploc AmTest.
<G>If very wet solids centrifuge, disp H2O. Priority PCB
Met, SVOC, TOC, Dx, Grain Size</G>
21H0263: Copy/Relog from 20F0432. <G> Project batch as mcuh as possible </G> <C> SRM, MS, Rep </C> <M> PS, MS/MSD </M> <E>8270E RM H002055, SIM RM H010158, PCB RM H009325/G00544, MS/MSD </E>
<H> RM H009325, Dup </H>

Client ID verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
TW	8/30/21	CTD	9/11/21	8/30/21 12:10

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Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BJH0655

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:SMS PAH)
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WO Comments

21H0261: As 6020 followup if 6010 RL is >10 mg/kg.
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<E>Decant okay</E>

16 oz Extractions, 4 oz share, Ziploc AmTest if other ask
Limited Volume Priority
PCB
Metals
SVOC
TOC
TPHd
Grainsize
21H0262: <E>Decant ok. Dx A/S 2XSur w/GPC. SVOC/PCB 2XSur</E>
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16oz Ext, 4oz share, Ziploc AmTest.
<G>If very wet solids centrifuge, disp H2O. Priority PCB
Met, SVOC, TOC, Dx, Grain Size</G>
21H0263: Copy/Relog from 20F0432. <G> Project batch as mcuh as possible </G> <C> SRM, MS, Rep </C> <M> PS, MS/MSD </M> <E>8270E RM H002055, SIM RM H010158, PCB RM H009325/G00544, MS/MSD </E>
<H> RM H009325, Dup </H>

Prep Steps

Microwave
1 2 3
TW 8/30/21
Analyst/Date

KD 100°C
1 2 3 4 5 6 00
RM/AA 09/09/21
Analyst/Date

TurboVap Pre GPC
1 2 3 4 5
SH 09/14/21
Analyst/Date

GPC Prep Filter (1:1)
9-10-21
DM Analyst/Date

Post GPC KD 80-85°C 00
1 2 3 4 5 6 00
RM 09/11/21
Analyst/Date

TurboVap
1 2 3 4 5
CB 9/11/21
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: TW Date: 8/30/21	
Anhydrous Sodium Sulfate	J009007
1:1 Methylene Chloride/Acetone	J008941
Methylene Chloride	J007764
Pre-Deactivated Glass Wool	J007894
Pre GPC KD Analyst: RM/AA Date: 09/09/21	
Pre-Deactivated Glass Wool	N/A
Anhydrous Sodium Sulfate	J009500
Methylene Chloride	J008916
Hexane	J005194
GPC Filter Prep Analyst: DM Date: 9-10-21	
Methylene Chloride	J008966
GPC Analyst: SH Date: 09/14/21	
Methylene Chloride	J008966
GPC Calibration File	CSM0198
Post GPC KD Analyst: RM Date: 09/11/21	
Methylene Chloride	J008916
Vialing Analyst: CB Date: 9/11/21	

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate	A J008214 TW Exp: 08/09/2022	50µL	TW	
100/150µg/mL	Sample only	100µL	TW	
Full List Spike (Freezer) 100µg/mL	7 J008178 (V) Exp: 01/28/2022 J007898	50µL	TW	
Base Spike 200µg/mL	56 J008178 (V) Exp: 01/28/2022 J004231	50µL	TW	
Acid Spike 100/200µg/mL	38 J008178 (V) Exp: 01/28/2022 J004232	50µL	TW	

(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 inthe 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).

Printed: 8/26/2021 9:04:55AM

3036F

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BJH0655

Prepared using: EPA 3546 (Microwave)

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

WO Comments

21H0261: As 6020 followup if 6010 RL is >10 mg/kg.
Grain Size to Amtest. PSEP, no hydro + EDD.
<E>Decant okay</E>

16 oz Extractions, 4 oz share, Ziploc AmTest if other ask
Limited Volume Priority
PCB
Metals
SVOC
TOC
TPHd
Grainsize
21H0262: <E>Decant ok. Dx A/S 2XSur w/GPC. SVOC/PCB 2XSur</E>
<M>ICP/MS follow-up for As if 6010 ND w RL >10 mg/kg</M>

16oz Ext, 4oz share, Ziploc AmTest.
<G>If very wet solids centrifuge, disp H2O. Priority PCB
Met, SVOC, TOC, Dx, Grain Size</G>
21H0263: Copy/Relog from 20F0432. <G> Project batch as mcuh as possible </G> <C> SRM, MS, Rep </C> <M> PS, MS/MSD </M> <E>8270E RM H002055, SIM RM H010158, PCB RM H009325/G00544, MS/MSD </E>
<H> RM H009325, Dup </H>

Water Wash CTO 9/4/21 **Analyst/Date**	Methylene Chloride	TOB 9/4/21
Vialing CTO 9/11/21 **Analyst/Date**		

Printed: 8/26/2021 9:04:55AM

3036F

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BJH0655

Prepared using: EPA 3546 (Microwave)

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

WO Comments

21H0261: As 6020 followup if 6010 RL is >10 mg/kg.
Grain Size to Amtest. PSEP, no hydro + EDD.
<E>Decant okay</E>

16 oz Extractions, 4 oz share, Ziploc AmTest if other ask
Limited Volume Priority
PCB
Metals
SVOC
TOC
TPHd
Grainsize
21H0262: <E>Decant ok. Dx A/S 2XSur w/GPC. SVOC/PCB 2XSur</E>
<M>ICP/MS follow-up for As if 6010 ND w RL >10 mg/kg</M>

16oz Ext, 4oz share, Ziploc AmTest.
<G>If very wet solids centrifuge, disp H2O. Priority PCB
Met, SVOC, TOC, Dx, Grain Size</G>
21H0263: Copy/Relog from 20F0432. <G> Project batch as mcuh as possible </G> <C> SRM, MS, Rep </C> <M> PS, MS/MSD </M> <E>8270E RM H002055, SIM RM H010158, PCB RM H009325/G00544, MS/MSD </E>
<H> RM H009325, Dup </H>

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. (After GPC) KD at 80°C. 14.TurboVap 15. Vial in DCM. 16. Water Wash Required 17. 0.5mL (1:2) Split to Lab. A. Need Total Solids Y / N B. Archive/Freeze Y / N	

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch BJH0655

Total Solids Batch: BJH0587 Work Order(s): 21H0261

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☑ Standing Water Decanted (Not shared)= Ø2-Ø4	TW 8/25/21
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☑ Organics (Leaves/sticks/grass)= Ø1-Ø4	TW 8/25/21
☑ Oily, obvious fuel/sulfur odors= Ø2-Ø4	TW 8/25/21
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☑ Share Samples (Y) / N 261-Ø1 A	TW 8/25/21
☑ Multiple Jars (Y) / N 261-Ø2,Ø3,Ø4 (2x)	TW 8/25/21
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated
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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch BJH0655

Total Solids Batch: BJH0588 Work Order(s): 21H0262

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☑ Standing Water Decanted (Not shared)= 262-01	TW 8/24/21
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☑ Organics (Leaves/sticks/grass)= 262-01	TW 8/24/21
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☑ Share Samples Y / N	TW 8/24/21
☑ Multiple Jars Y / N	TW 8/24/21
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

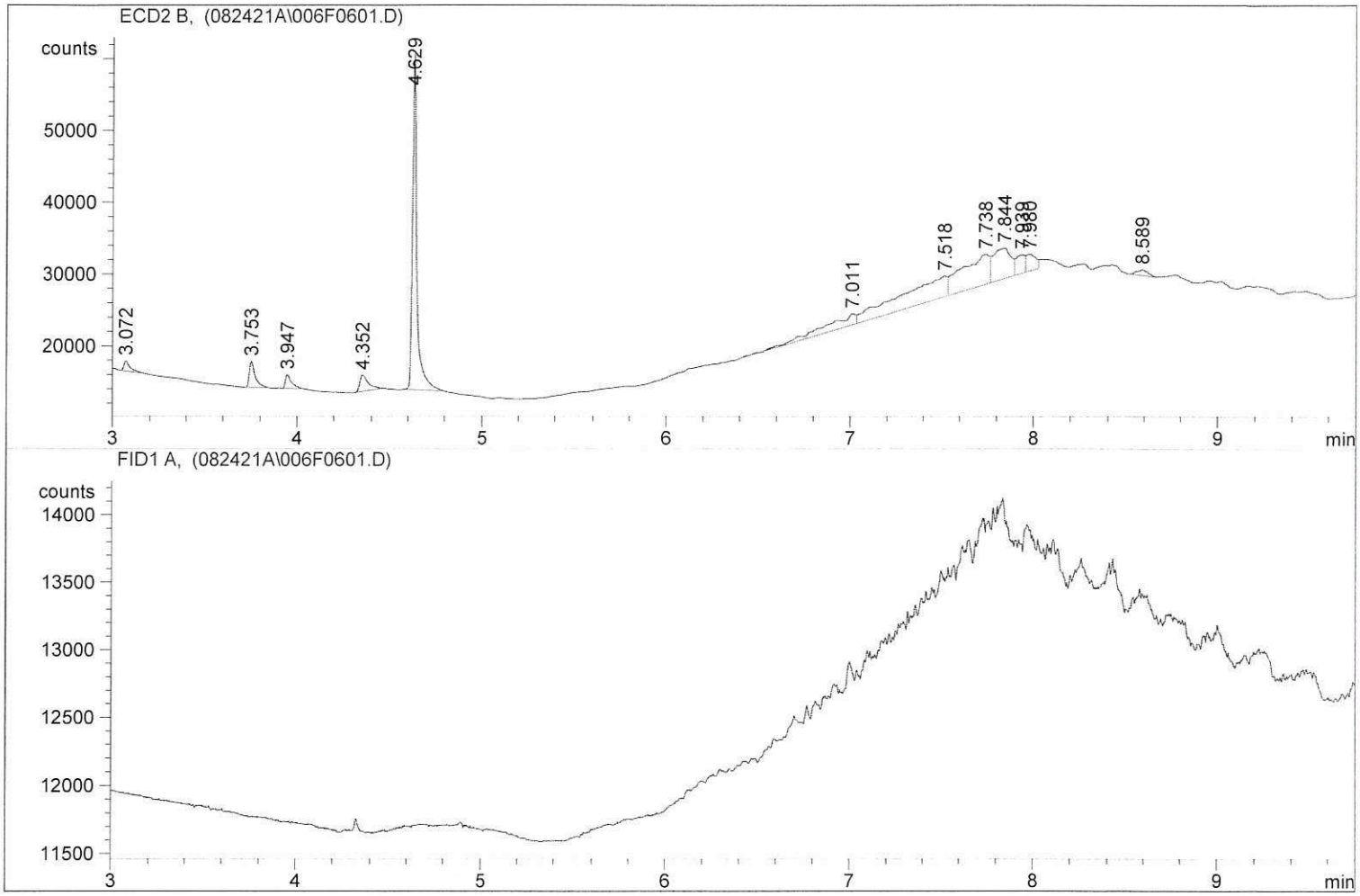
Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch BJH0655

Total Solids Batch: BJH0589 Work Order(s): 21H0263

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☑ Clay/Clumps (Difficult to homogenize)= Clay - 263-01	TW 8/24/21
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☑ Share Samples Y / (N)	TW 8/24/21
☑ Multiple Jars Y / (N)	TW 8/24/21
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

```
==================================================================
Injection Date  : 8/25/2021 9:10:27 AM          Seq. Line :   6
Sample Name     : 21H0263 01                     Location : Vial 6
Acq. Operator   : TW                                  Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\082421A.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==================================================================
```



*** End of Report ***

GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-BLK1

Method : GPC3_BAN

Description : BAN Method

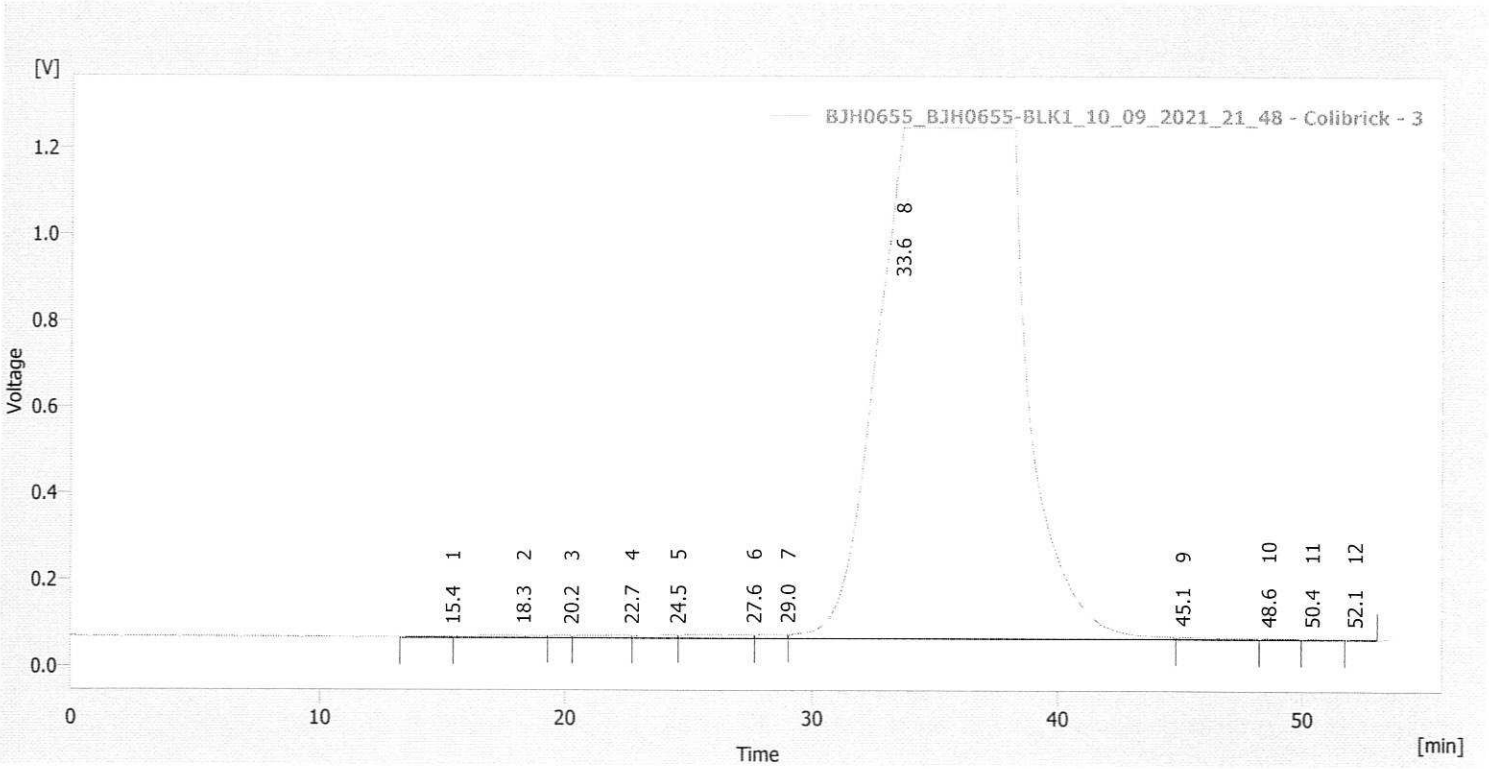
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/10/2021 9:48 PM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-BS1

Method : GPC3_BAN

Description : BAN Method

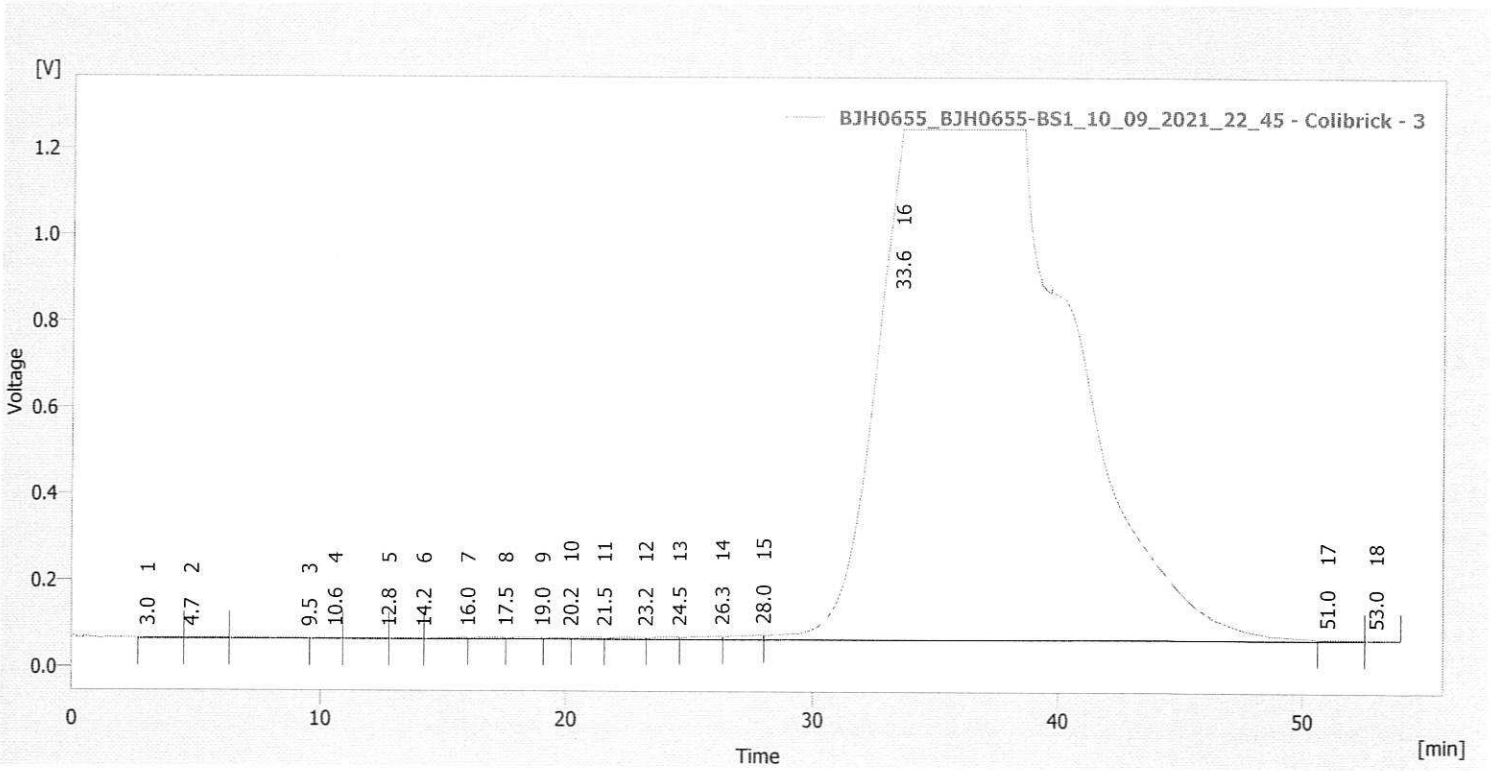
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/10/2021 10:45 PM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-BSD1

Method : GPC3_BAN

Description : BAN Method

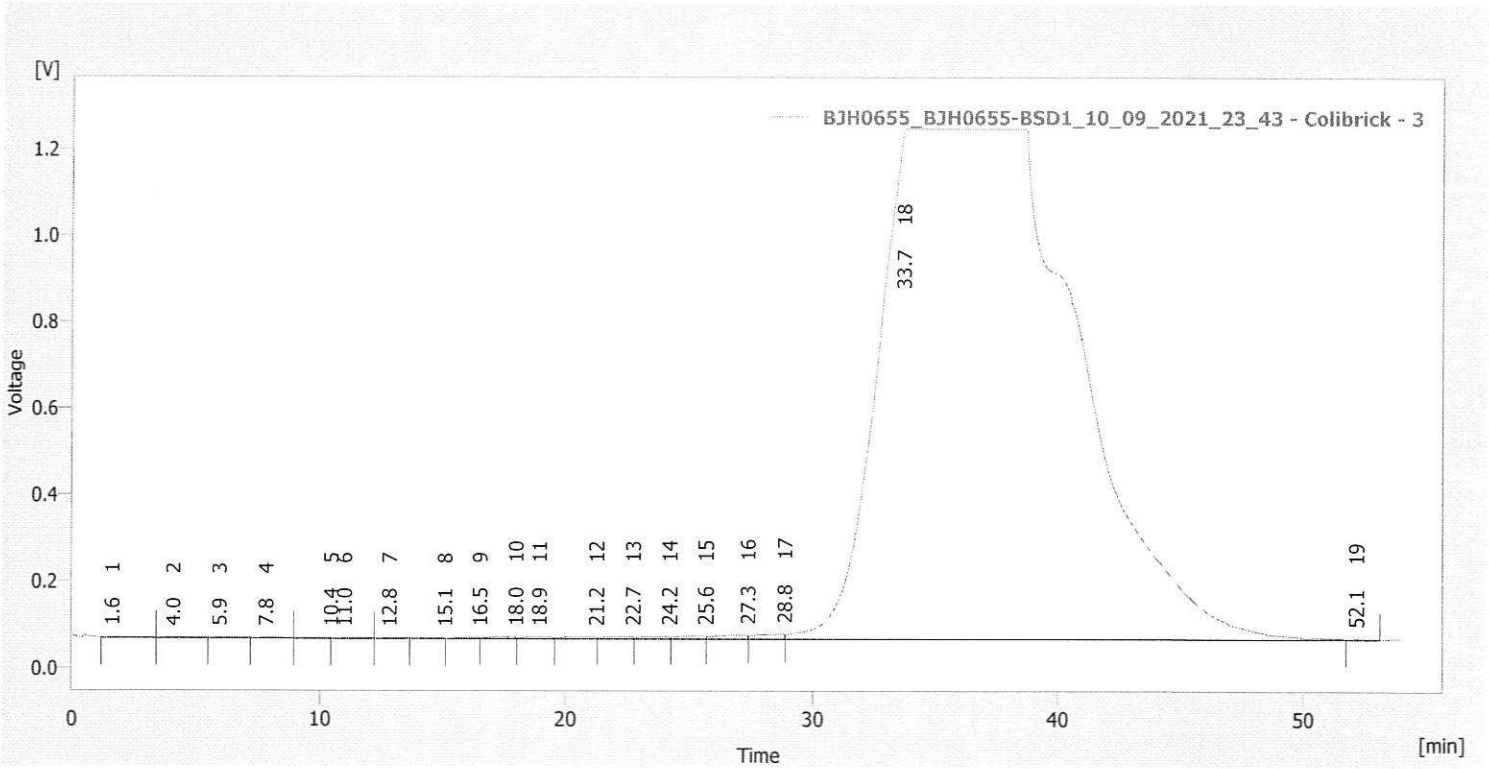
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/10/2021 11:43 PM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-SRM1

Method : GPC3_BAN

Description : BAN Method

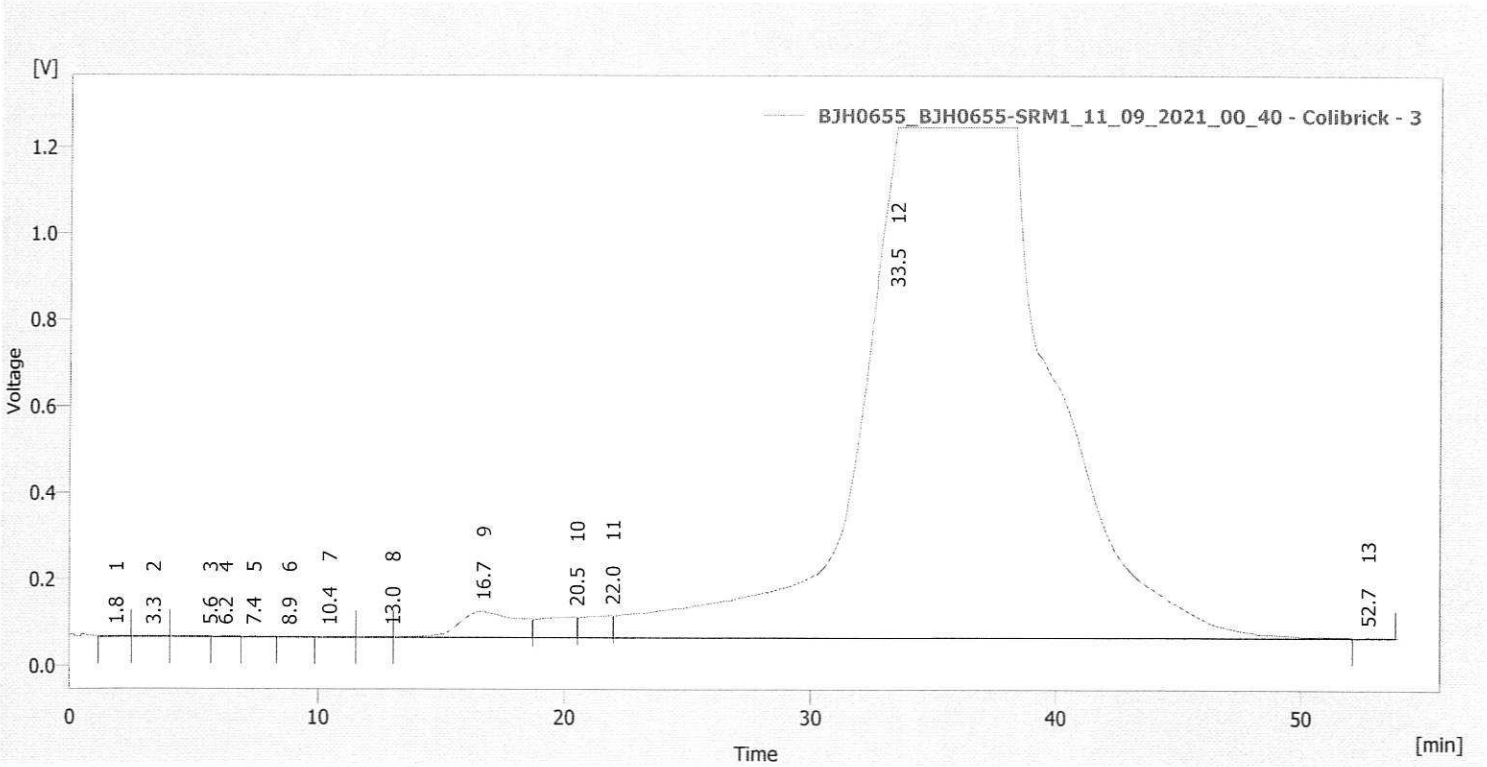
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 12:40 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : 21H0261-02 A 02

Method : GPC3_BAN

Description : BAN Method

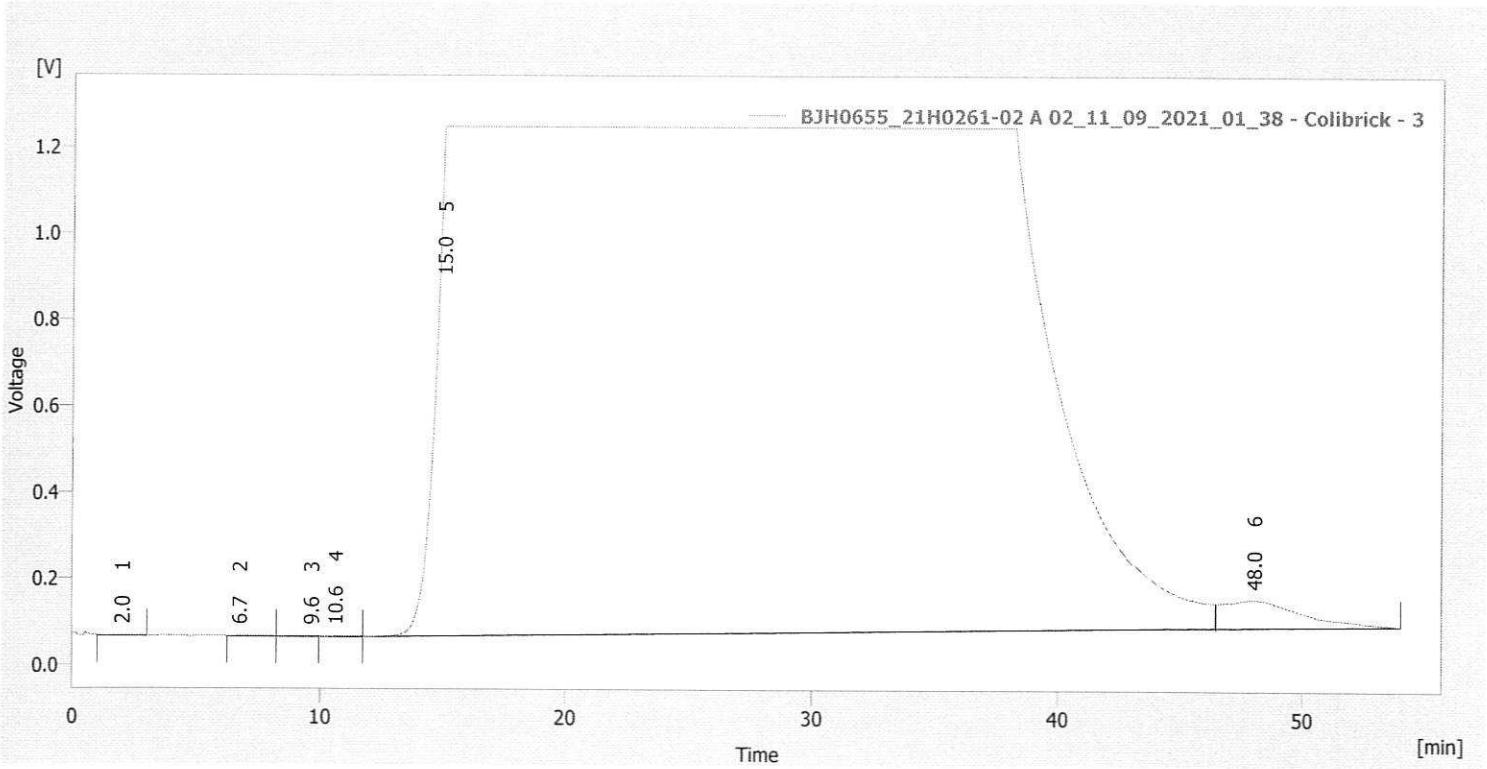
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 1:38 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : 21H0261-03 A 02

Method : GPC3_BAN

Description : BAN Method

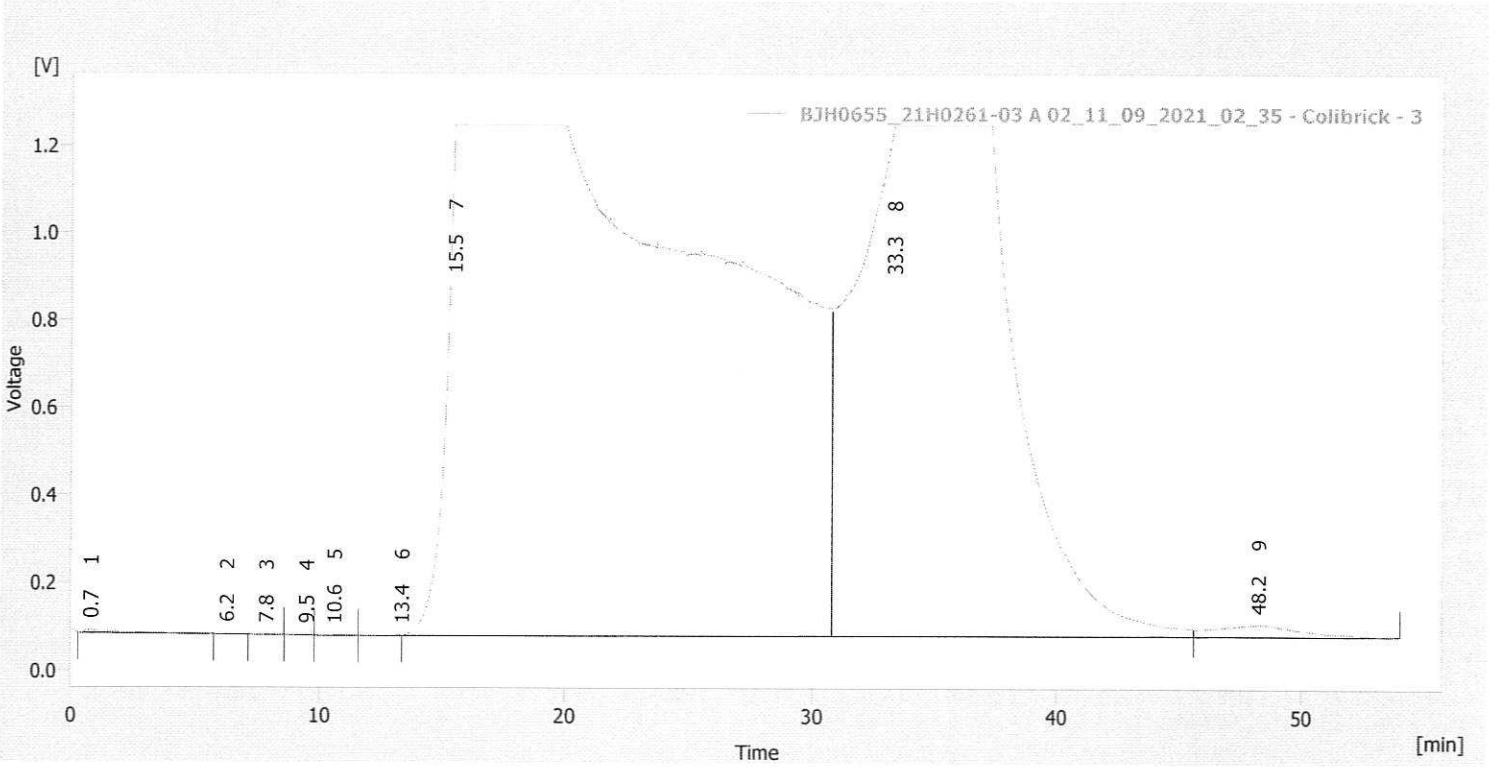
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 2:35 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : 21H0261-04 A 02

Method : GPC3_BAN

Description : BAN Method

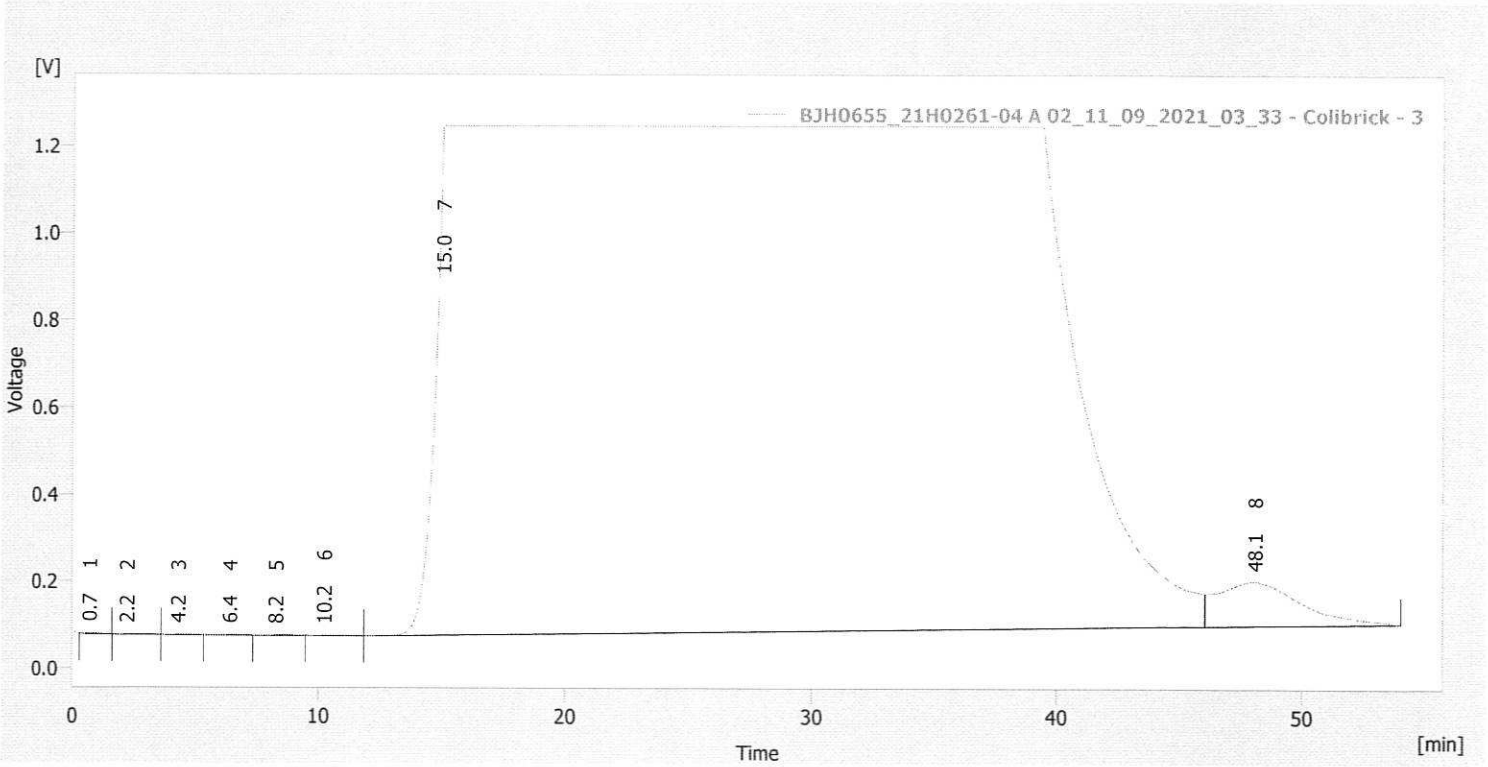
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 3:33 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : 21H0262-01 A 02

Method : GPC3_BAN

Description : BAN Method

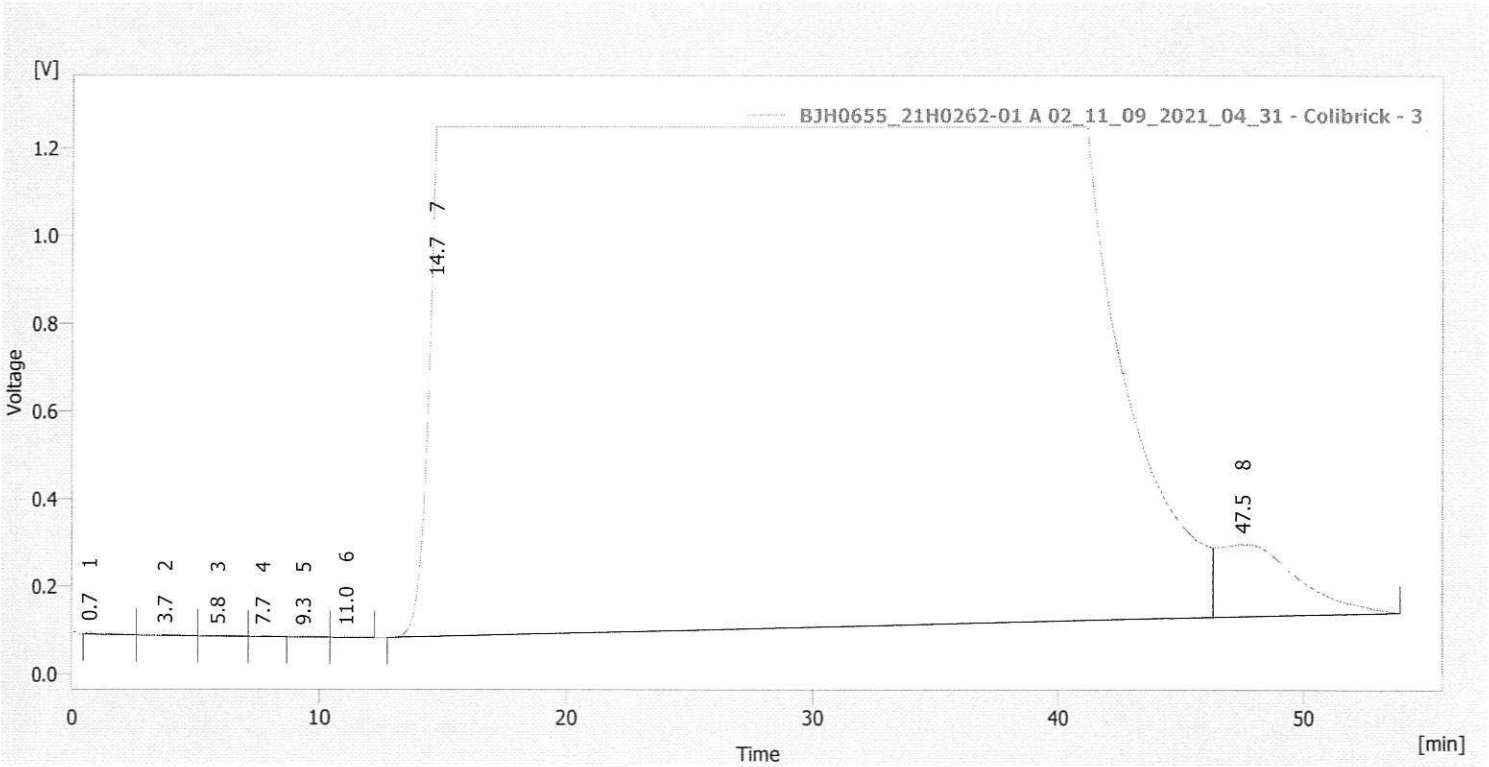
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 4:31 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : 21H0263-01 A 01

Method : GPC3_BAN

Description : BAN Method

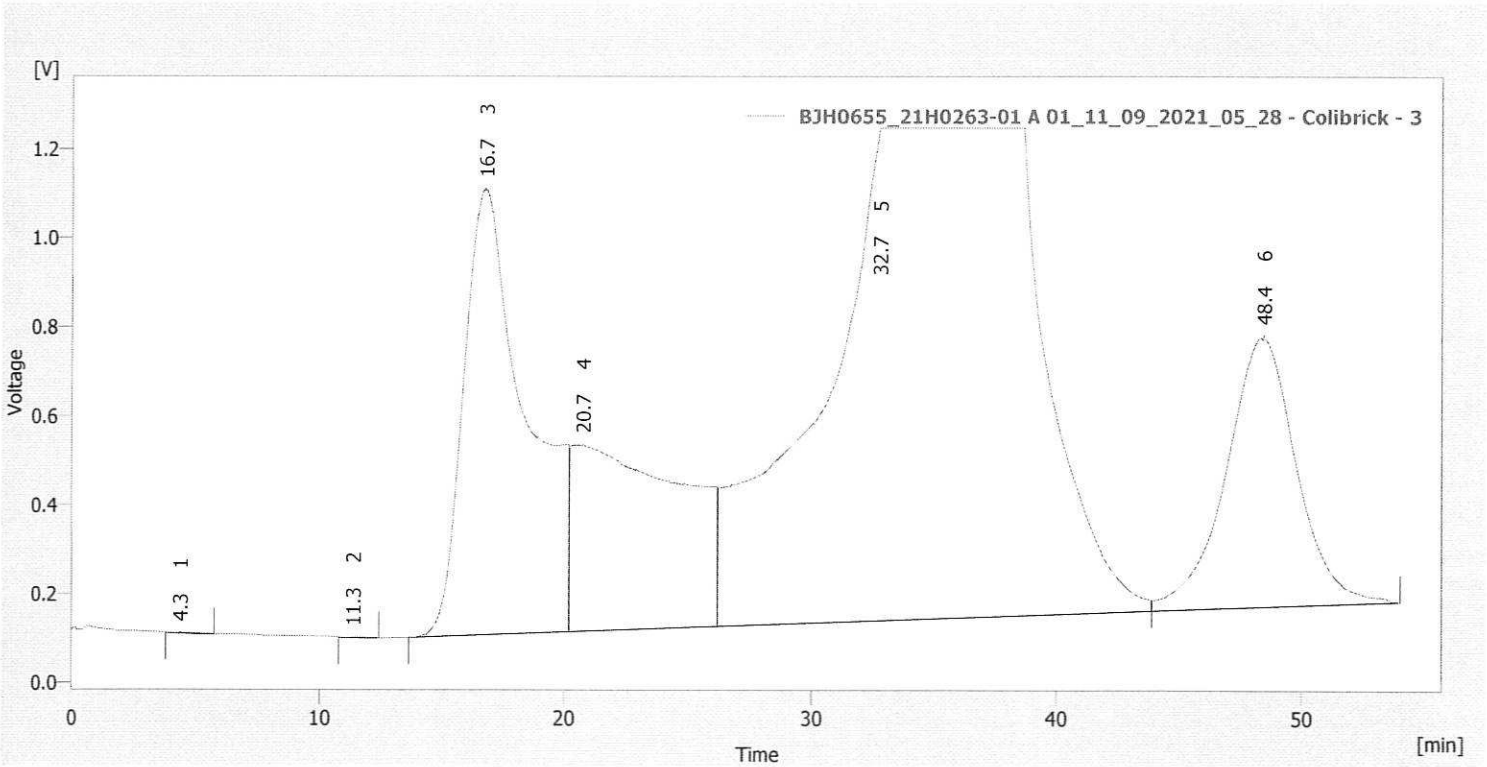
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 5:28 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-MS1

Method : GPC3_BAN

Description : BAN Method

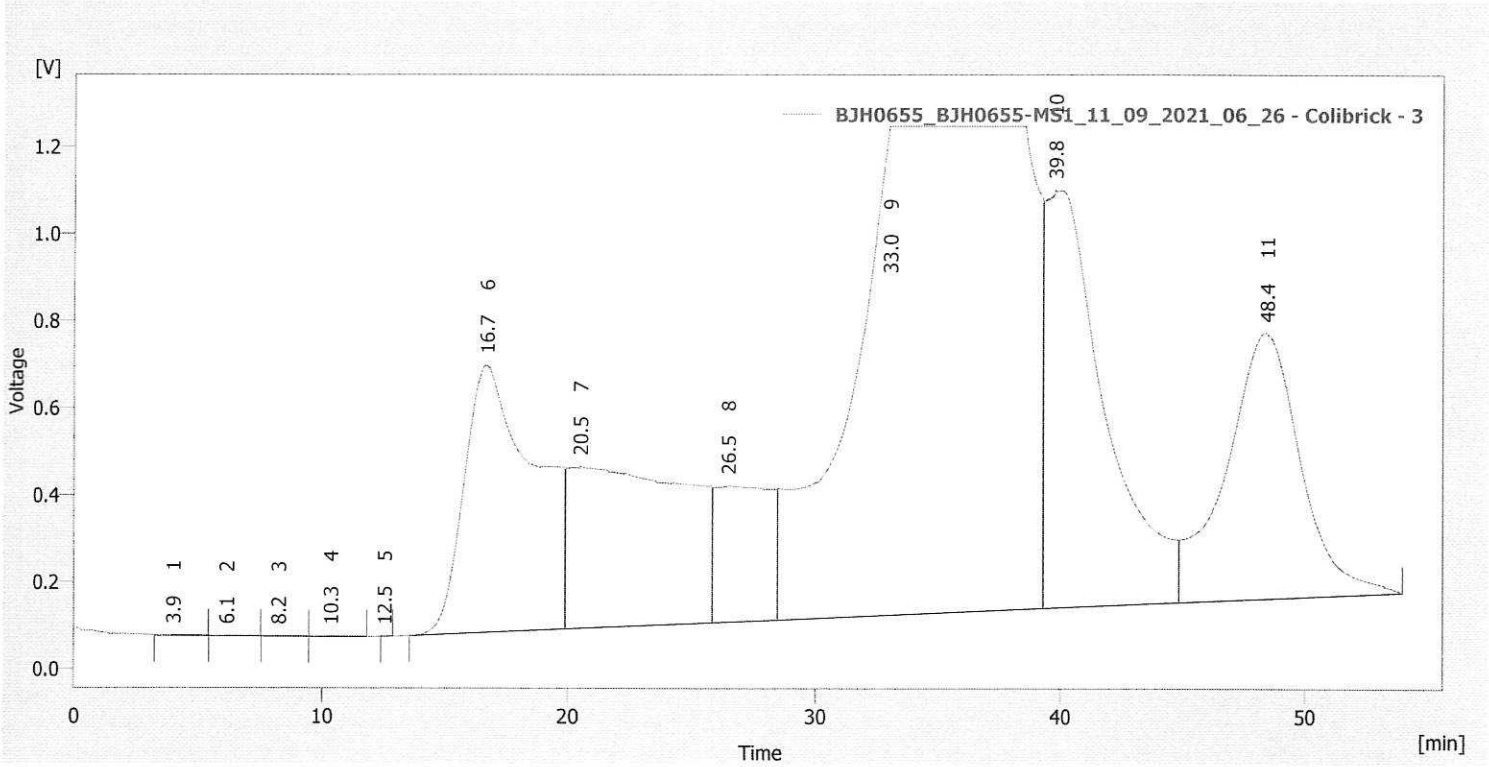
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 6:26 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



GPC3

GPC3_BAN

BJH0655

Sample Description:

Sample ID : BJH0655

Sample : BJH0655-MSD1

Method : GPC3_BAN

Description : BAN Method

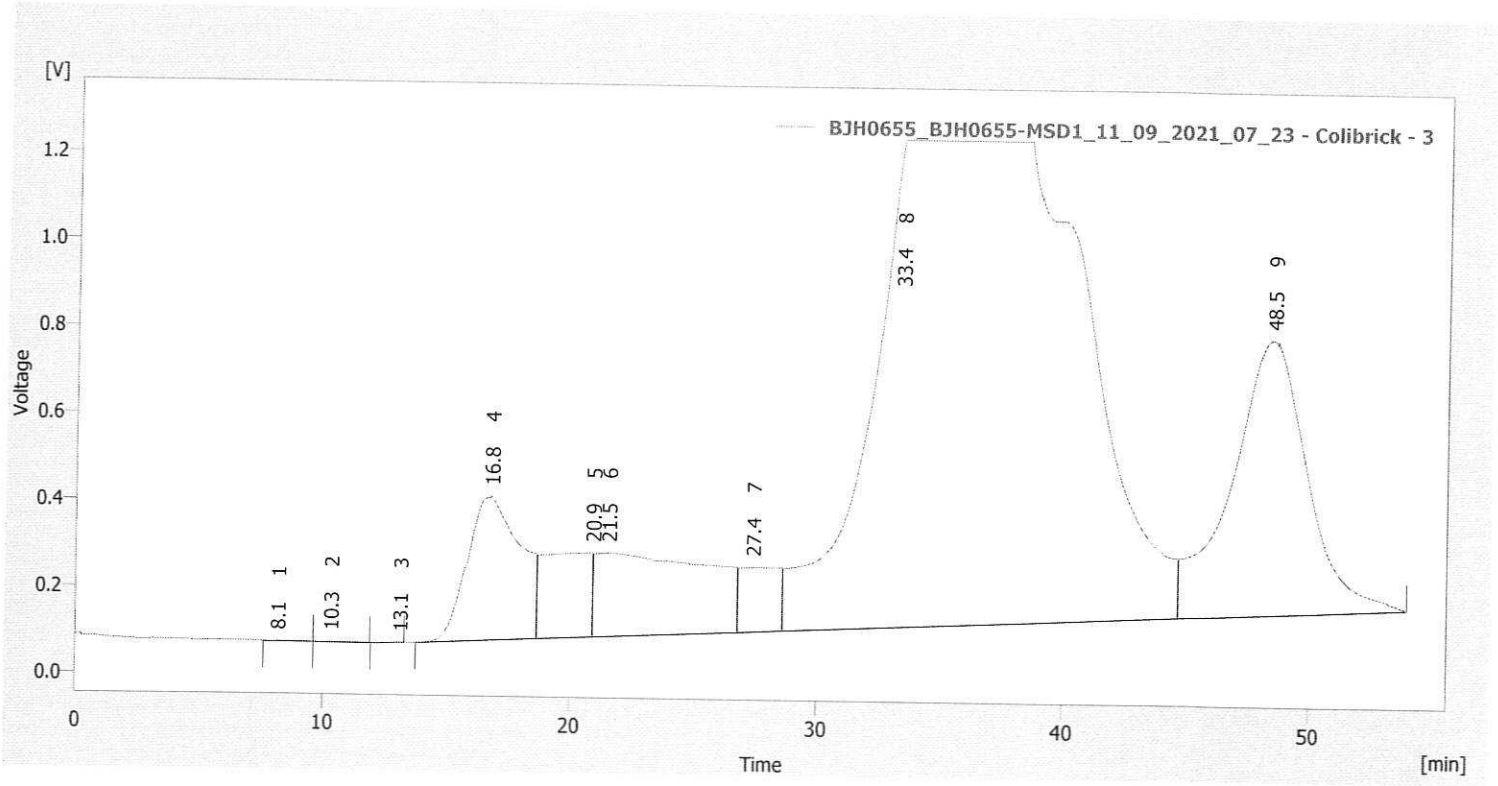
Created : 9/10/2019 1:23 PM

By : cct

Modified : 9/11/2021 7:23 AM

Time and Input Events Table (GPC3_BAN)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc3collect	High	☐
Start_collect	Run Time >	---	---	25.000	min	Colibrick	gpc3collect	Low	☐
Start_dump	Run Time >	---	---	48.000	min	Colibrick	gpc3collect	High	☐
Next_fract	Run Time >	---	---	53.800	min	GPC3fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	70.000	min	Colibrick	GPC3-Poweroff	Low	☐



Analytical Resources, Incorporated
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Cleanup Batch:	CJI0090	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
LDW20-IT384	21H0263-01	NT1021091111.D	09/11/2021	
Blank	BJH0655-BLK1	NT1021091107.D	09/11/2021	
LCS	BJH0655-BS1	NT1021091108.D	09/11/2021	
LCS Dup	BJH0655-BSD1	NT1021091109.D	09/11/2021	
Matrix Spike	BJH0655-MS1	NT1021091112.D	09/11/2021	
Matrix Spike Dup	BJH0655-MSD1	NT1021091113.D	09/11/2021	
Reference	BJH0655-SRM1	NT1021091110.D	09/11/2021	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CJI0090

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Printed: 9/11/2021 11:36:09AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
21H0261-02	A	MKJ-081921-2	A 02	1	1	OC (20ug/kg solid or 0.2ug/L low l	9/11/2021	CTO	
21H0261-03	A	MKJ-081921-3	A 02	1	1	OC (20ug/kg solid or 0.2ug/L low l	9/11/2021	CTO	
21H0261-04	A	MKJ-081921-4	A 02	1	1	OC (20ug/kg solid or 0.2ug/L low l	9/11/2021	CTO	
21H0262-01	A	MKJ-081921-5	A 02	1	1	OC (20ug/kg solid or 0.2ug/L low l	9/11/2021	CTO	
21H0263-01	A	LDW20-IT384	A 01	1	1	OC (20ug/kg solid or 0.2ug/L low l	9/11/2021	CTO	
BJH0655-BLK1	-	Blank	-	1	1	-	9/11/2021	CTO	
BJH0655-BS1	-	LCS	-	1	1	-	9/11/2021	CTO	
BJH0655-BSD1	-	LCS Dup	-	1	1	-	9/11/2021	CTO	
BJH0655-MS1	-	Matrix Spike	-	1	1	-	9/11/2021	CTO	
BJH0655-MSD1	-	Matrix Spike Dup	-	1	1	-	9/11/2021	CTO	
BJH0655-SRM1	-	Reference	-	1	1	-	9/11/2021	CTO	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Form I
METHOD BLANK DATA SHEET
EPA 8270E

Blank

Laboratory:	Analytical Resources, Inc.			SDG:	21H0263
Client:	Anchor QEA, LLC			Project:	Lower Duwamish AOC4
Matrix:	Solid	Laboratory ID:	BJH0655-BLK1	File ID:	NT1021091107.D
Sampled:	N/A	Prepared:	08/30/21 12:10	Analyzed:	09/11/21 14:17
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BJH0655	Sequence:	SJI0174	Calibration:	EH00053
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
91-20-3	Naphthalene	1	20.0	U	4.2	20.0
91-57-6	2-Methylnaphthalene	1	20.0	U	4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
83-32-9	Acenaphthene	1	20.0	U	5.2	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	20.0	U	8.7	20.0
120-12-7	Anthracene	1	20.0	U	7.2	20.0
206-44-0	Fluoranthene	1	20.0	U	6.1	20.0
129-00-0	Pyrene	1	20.0	U	5.7	20.0
56-55-3	Benzo(a)anthracene	1	20.0	U	6.0	20.0
218-01-9	Chrysene	1	20.0	U	6.1	20.0
	Benzofluoranthenes, Total	1	40.0	U	10.0	40.0
50-32-8	Benzo(a)pyrene	1	20.0	U	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	20.0	U	14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	20.0	U	13.6	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
1,2-Dichlorobenzene-d4	500.00	444	88.8	32 - 120	
Nitrobenzene-d5	500.00	523	105	30 - 120	
2-Fluorobiphenyl	500.00	510	102	35 - 120	
p-Terphenyl-d14	500.00	729	146	37 - 120	*

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091107.D

Page 1

Date : 11-SEP-2021 14:17

Client ID:

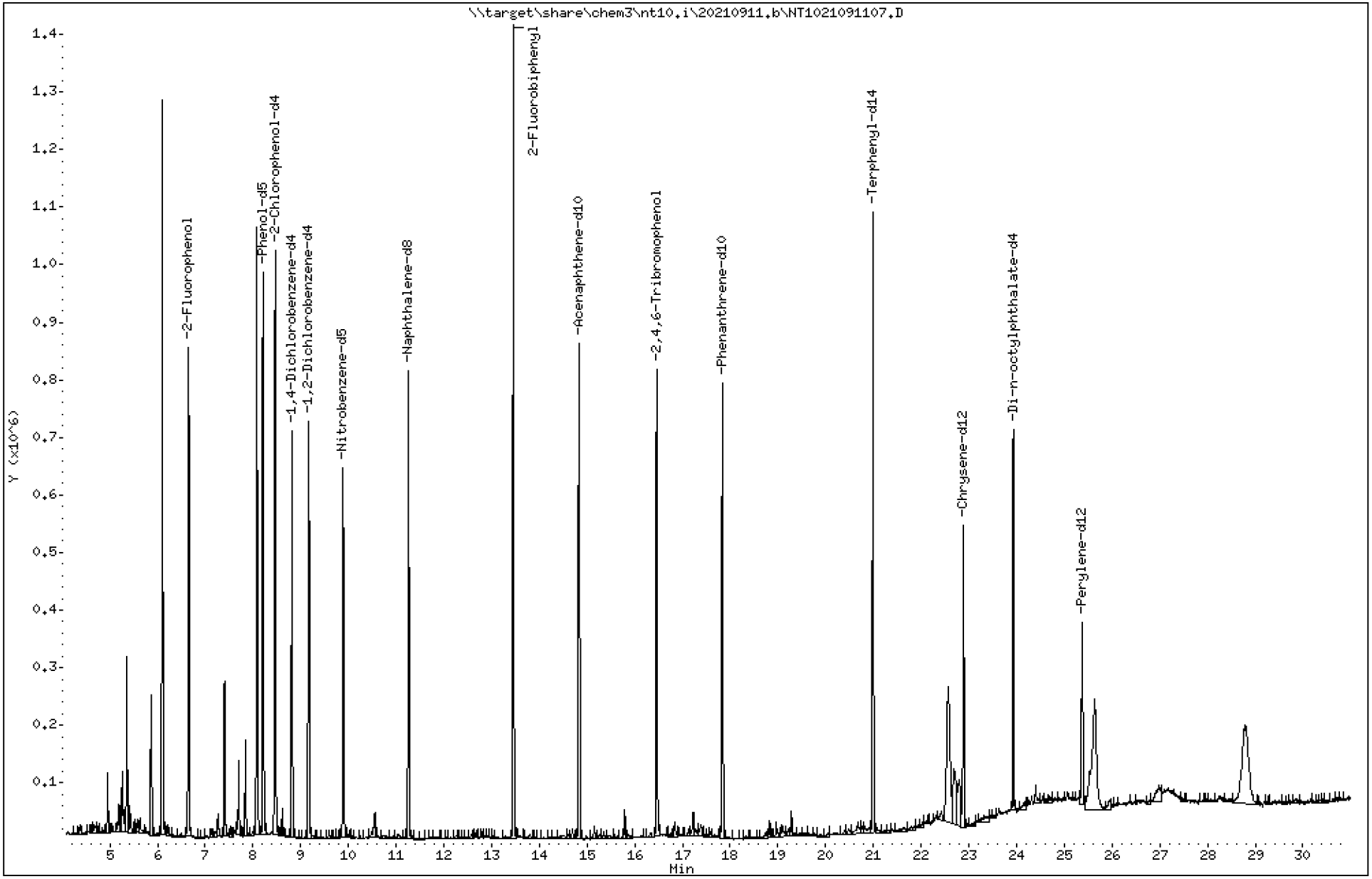
Instrument: nt10.i

Sample Info: BJH0655-BLK1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 14:17

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BLK1

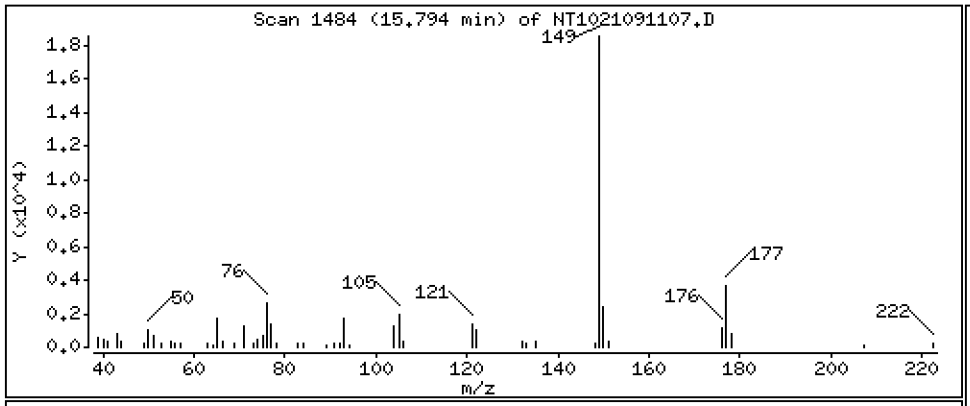
Operator: VTS

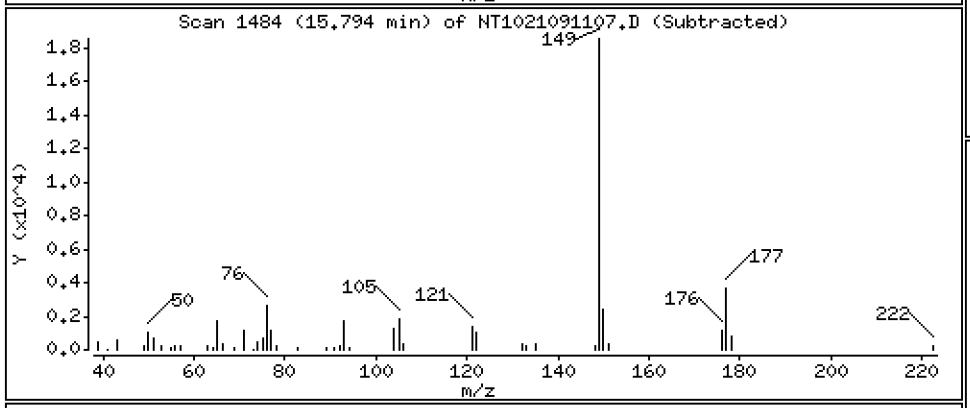
Column phase: ZB-5msi

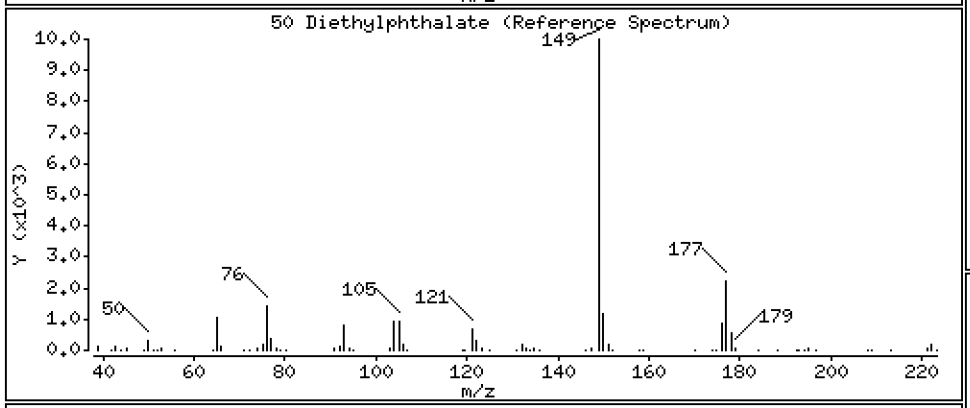
Column diameter: 0.25

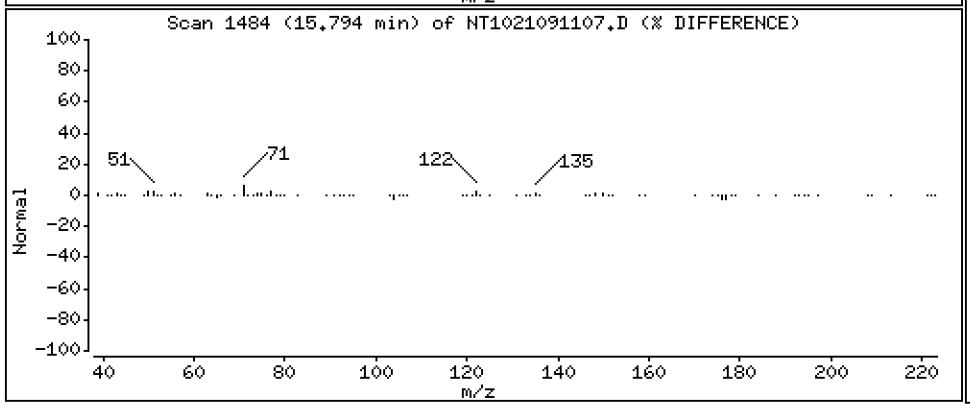
50 Diethylphthalate

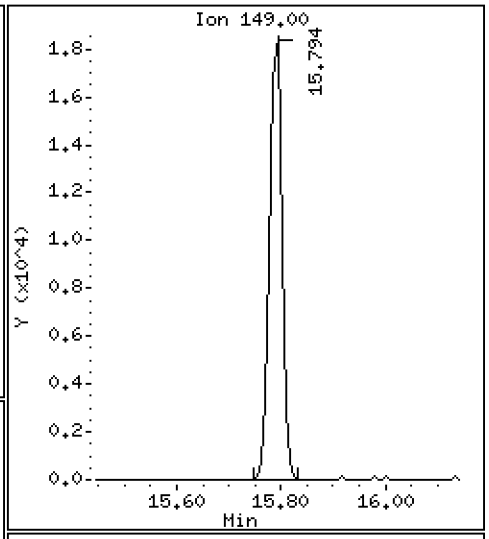
Concentration: 0.3012 ug/mL

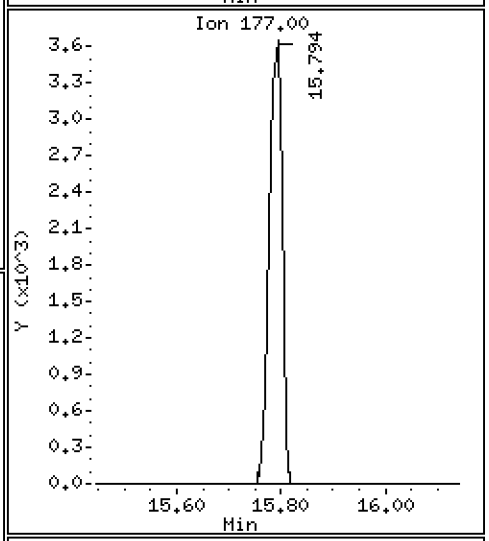


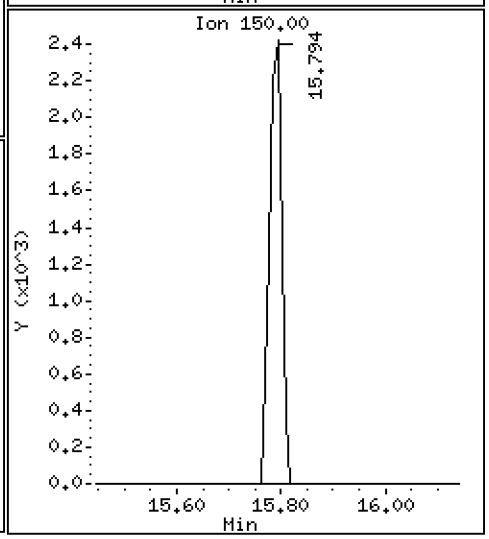












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091107.D
Lab Smp Id: BJH0655-BLK1
Inj Date : 11-SEP-2021 14:17
Operator : VTS Inst ID: nt10.i
Smp Info : BJH0655-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.651	6.635	(0.754)	318631	5.84536	5.845
$	2 Phenol-d5	99	8.212	8.204	(0.932)	464761	5.95715	5.957
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	387714	6.97637	6.976
	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	8.815	8.815	(1.000)	163045	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.172	9.164	(1.040)	167642	4.44072	4.441
	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	9.894	9.894	(0.879)	318726	5.23147	5.231
	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	11.260	11.260	(1.000)	581878	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	662743	5.09699	5.097
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	325452	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	15.793	15.793	(1.065)	28978	0.30119	0.3012
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	98963	7.90712	7.907
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	529932	4.00000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	504874	7.28620	7.286
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	245456	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	Compound Not Detected.					
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	501748	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	25.379	25.379	(1.000)	217537	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS 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: nt10.i
Lab File ID: NT1021091107.D
Lab Smp Id: BJH0655-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	163045	18.40
27 Naphthalene-d8	447216	223608	894432	581878	30.11
42 Acenaphthene-d10	264765	132383	529530	325452	22.92
59 Phenanthrene-d10	428682	214341	857364	529932	23.62
69 Chrysene-d12	221118	110559	442236	245456	11.01
134 Di-n-octylphthala	404470	202235	808940	501748	24.05
77 Perylene-d12	154408	77204	308816	217537	40.88

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091107.D

Lab ID: BJH0655-BLK1
nt10.i, ABN.m, 11-SEP-2021 14:17

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1021091106.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	09/11/21 14:55
Batch:	BJH0655	Laboratory ID:	BJH0655-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Naphthalene	500	408		81.6	43 - 120
2-Methylnaphthalene	500	406		81.1	43 - 120
Acenaphthylene	500	378		75.6	42 - 120
Acenaphthene	500	420		84.1	45 - 120
Fluorene	500	411		82.1	45 - 120
Phenanthrene	500	414		82.8	49 - 120
Anthracene	500	398		79.5	45 - 120
Fluoranthene	500	584	Q	117	53 - 145
Pyrene	500	558		112	52 - 134
Benzo(a)anthracene	500	444		88.8	49 - 120
Chrysene	500	403		80.6	47 - 120
Benzofluoranthenes, Total	1000	845		84.5	30 - 160
Benzo(a)pyrene	500	409		81.8	42 - 120
Indeno(1,2,3-cd)pyrene	500	452		90.3	42 - 163
Dibenzo(a,h)anthracene	500	462		92.4	30 - 133
Benzo(g,h,i)perylene	500	407		81.3	46 - 148

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Naphthalene	500	497		99.4	19.6	30	43 - 120
2-Methylnaphthalene	500	490		97.9	18.7	30	43 - 120
Acenaphthylene	500	450		90.1	17.5	30	42 - 120
Acenaphthene	500	501		100	17.5	30	45 - 120
Fluorene	500	482		96.4	16.0	30	45 - 120
Phenanthrene	500	498		99.6	18.4	30	49 - 120
Anthracene	500	481		96.3	19.0	30	45 - 120
Fluoranthene	500	740	*, Q	148 *	23.6	30	53 - 145
Pyrene	500	726	*	145 *	26.3	30	52 - 134
Benzo(a)anthracene	500	522		104	16.2	30	49 - 120
Chrysene	500	494		98.7	20.2	30	47 - 120
Benzofluoranthenes, Total	1000	978		97.8	14.6	30	30 - 160
Benzo(a)pyrene	500	487		97.4	17.3	30	42 - 120

* Indicates values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	09/11/21 15:33
Batch:	BJH0655	Laboratory ID:	BJH0655-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Indeno(1,2,3-cd)pyrene	500	522		104	14.4	30	42 - 163
Dibenzo(a,h)anthracene	500	527		105	13.1	30	30 - 133
Benzo(g,h,i)perylene	500	486		97.3	17.9	30	46 - 148

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

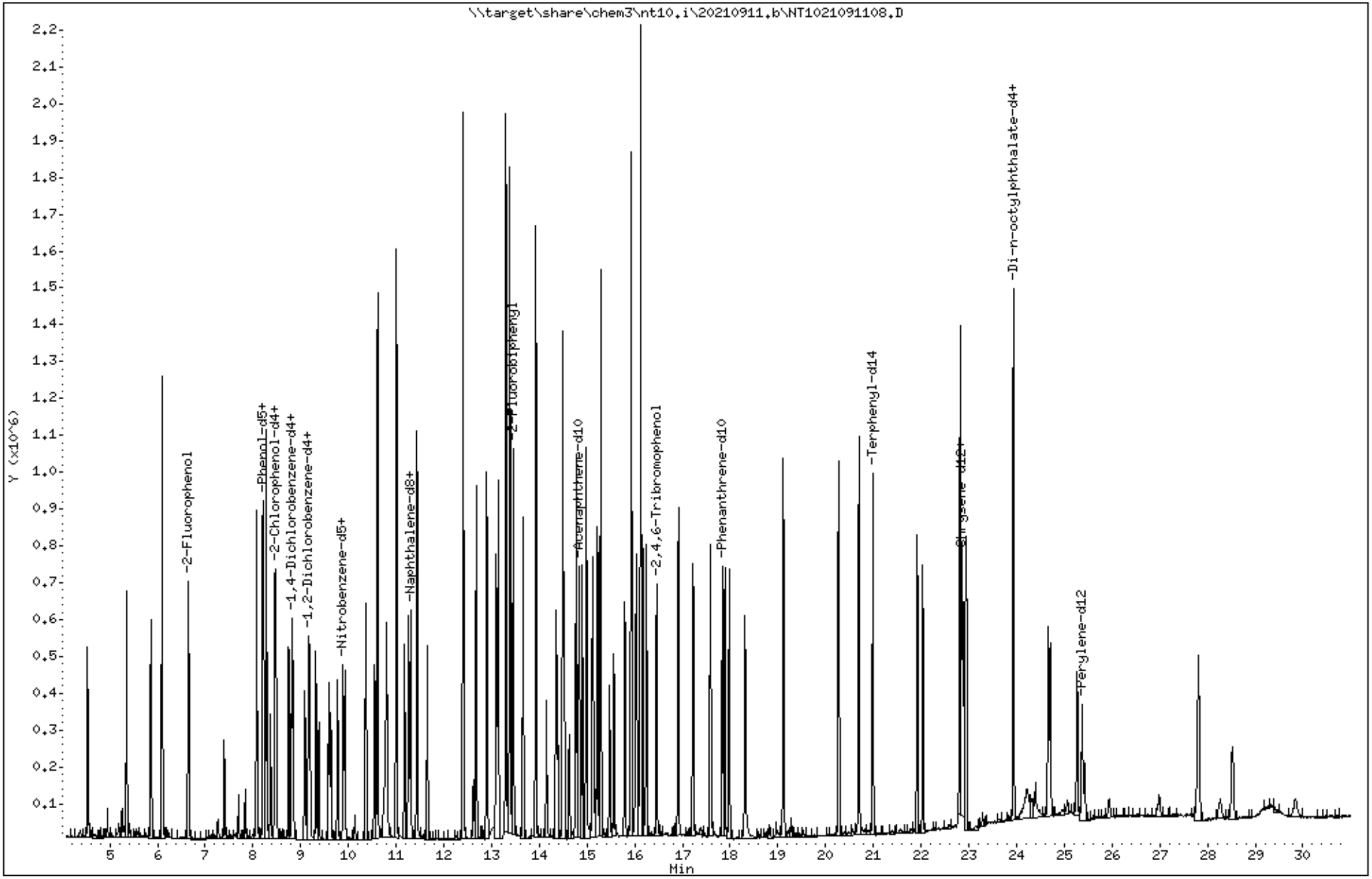
Instrument: nt10.i

Sample Info: BJH0655-BS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

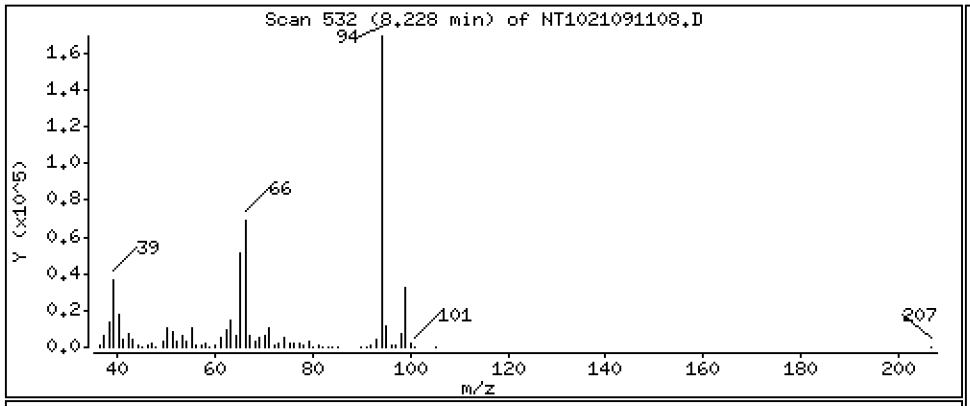
Operator: VTS

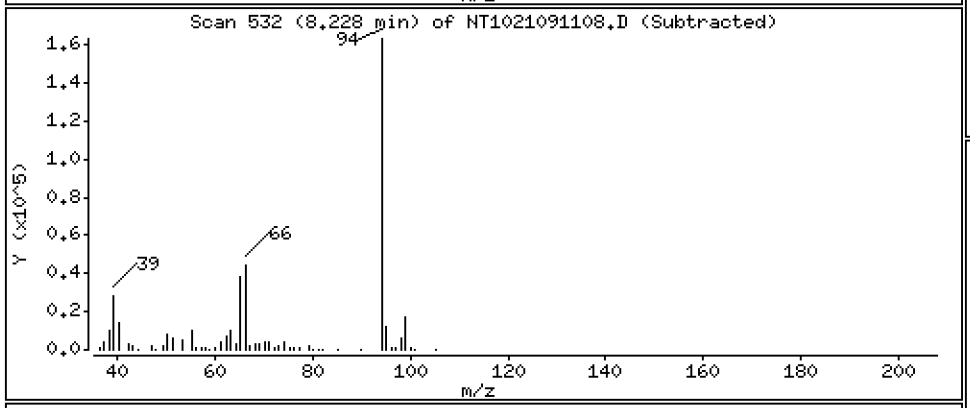
Column phase: ZB-5msi

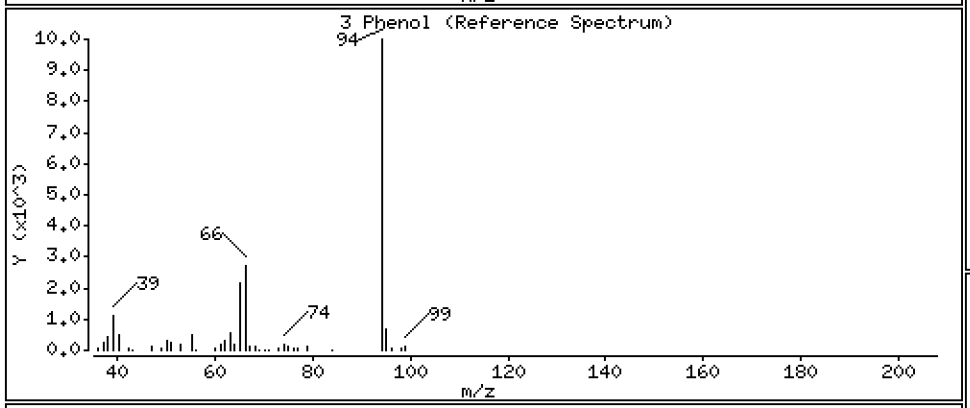
Column diameter: 0.25

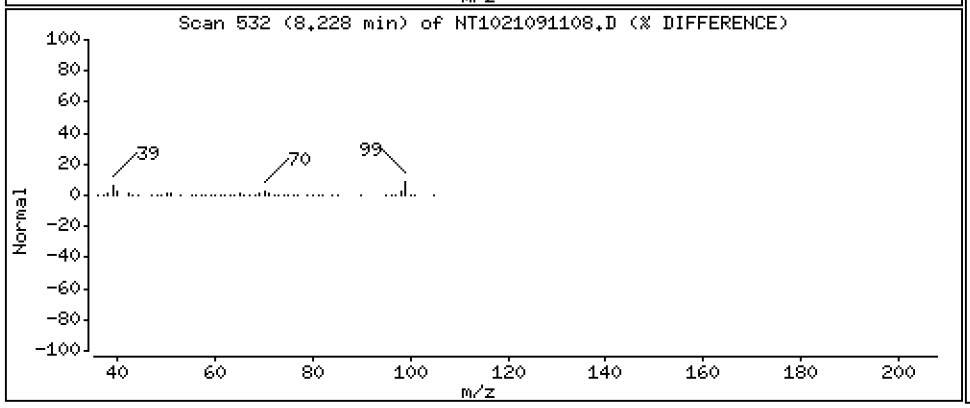
3 Phenol

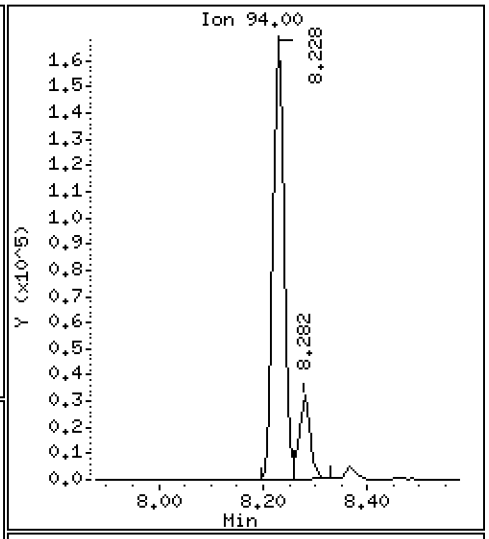
Concentration: 3.833 ug/mL

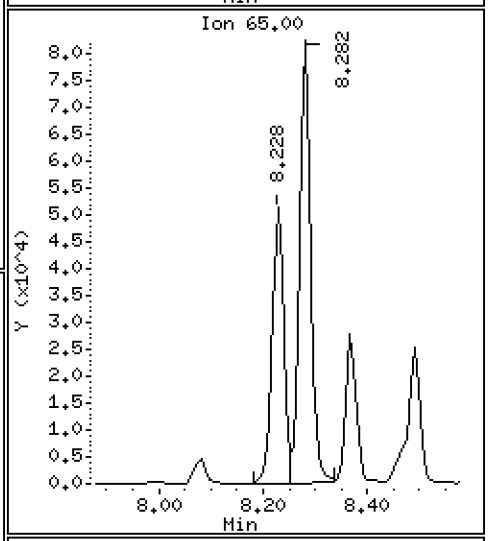


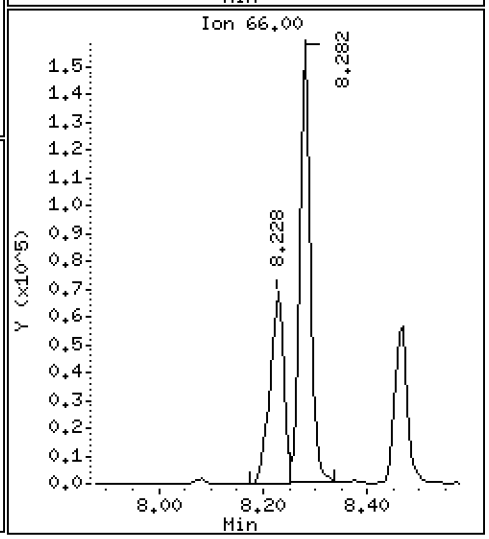












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

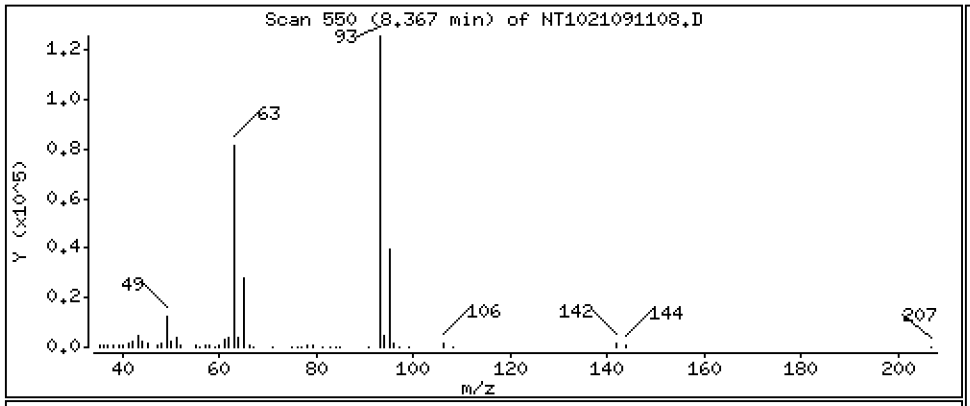
Operator: VTS

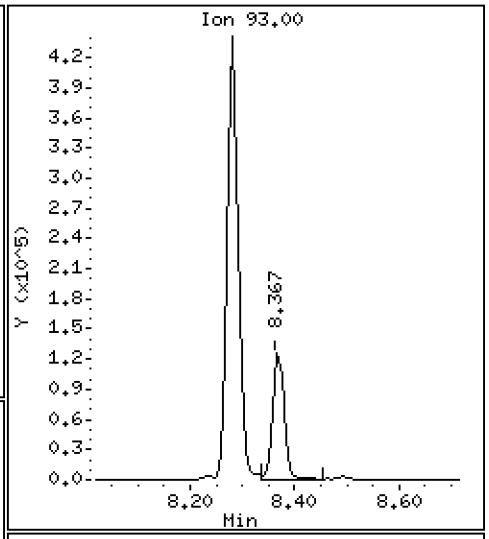
Column phase: ZB-5msi

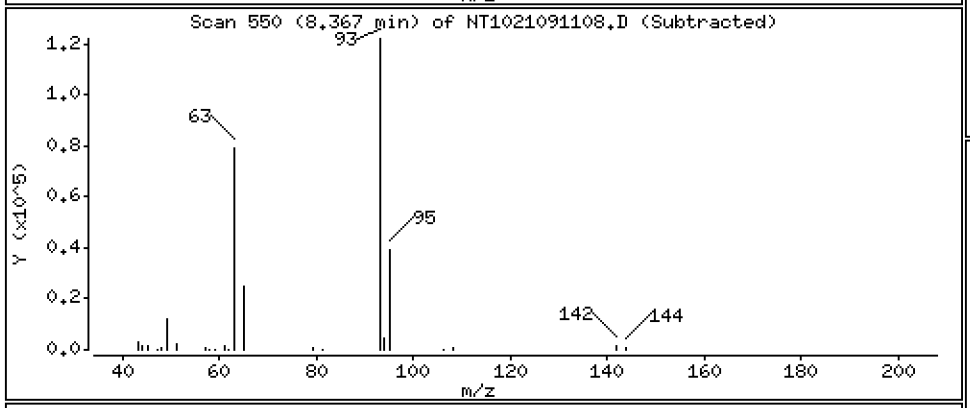
Column diameter: 0.25

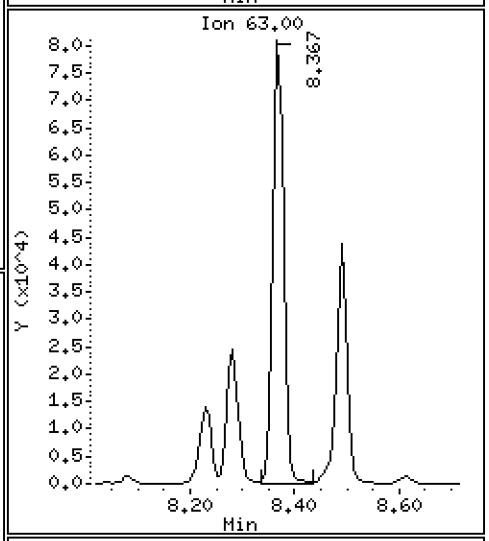
4 Bis(2-Chloroethyl)ether

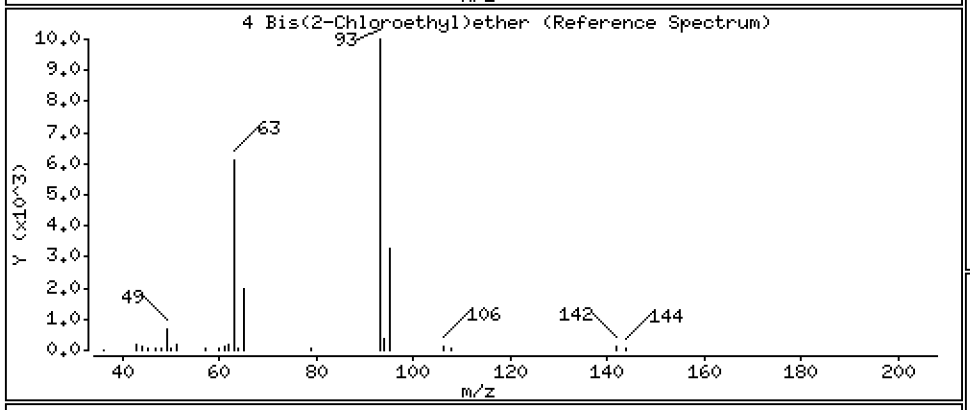
Concentration: 3.944 ug/mL

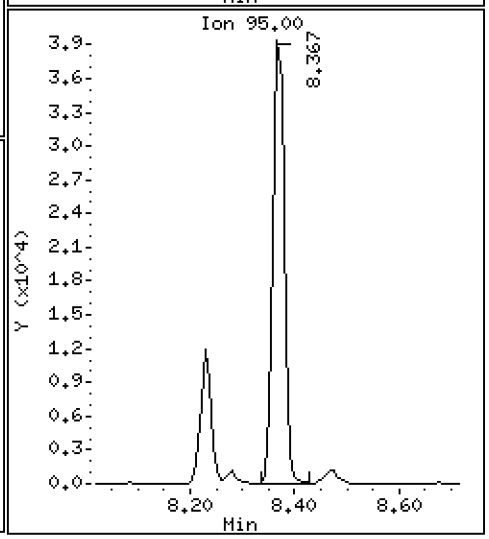


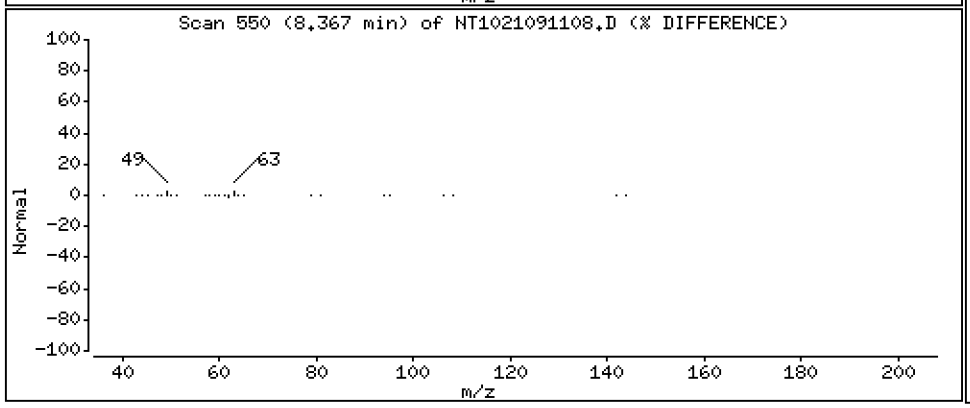












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

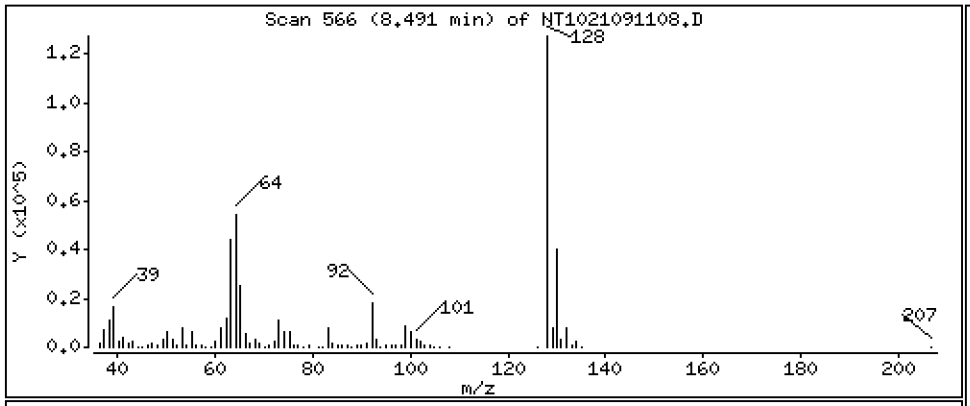
Operator: VTS

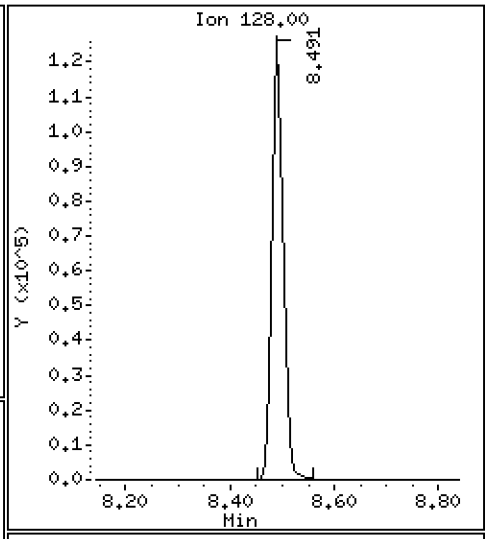
Column phase: ZB-5msi

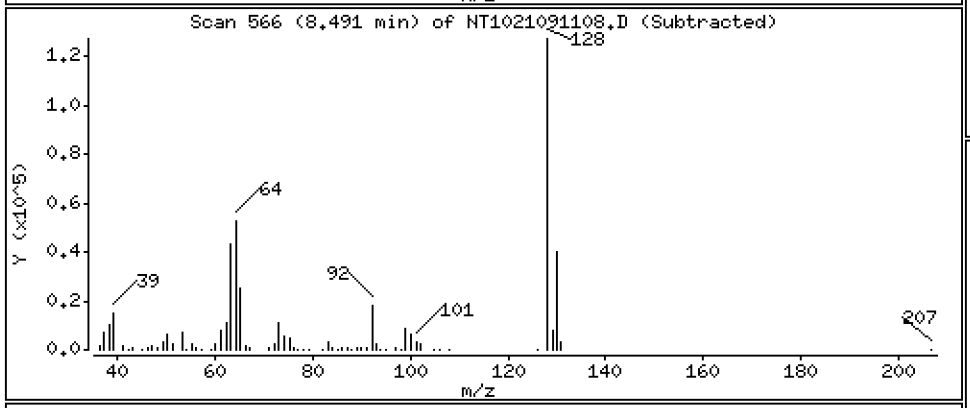
Column diameter: 0.25

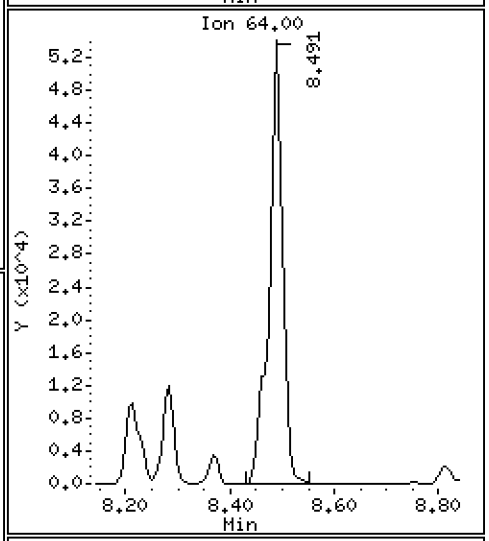
6 2-Chlorophenol

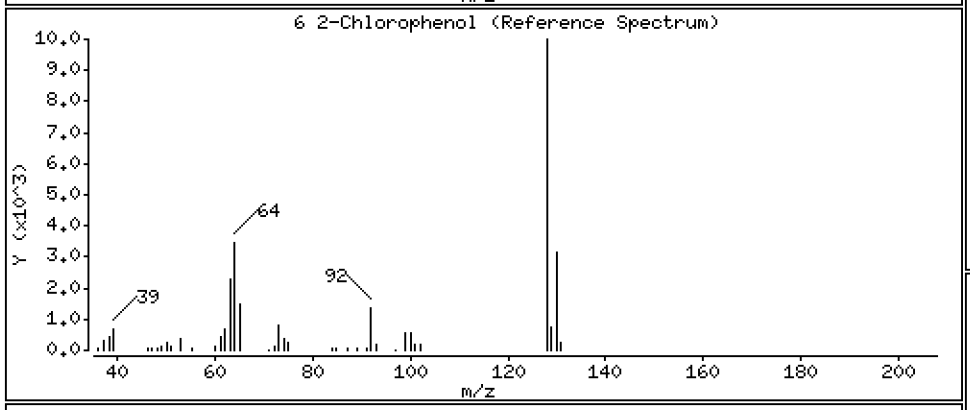
Concentration: 3.664 ug/mL

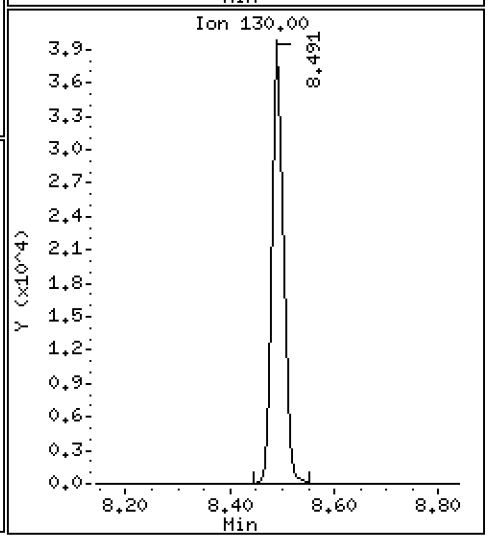


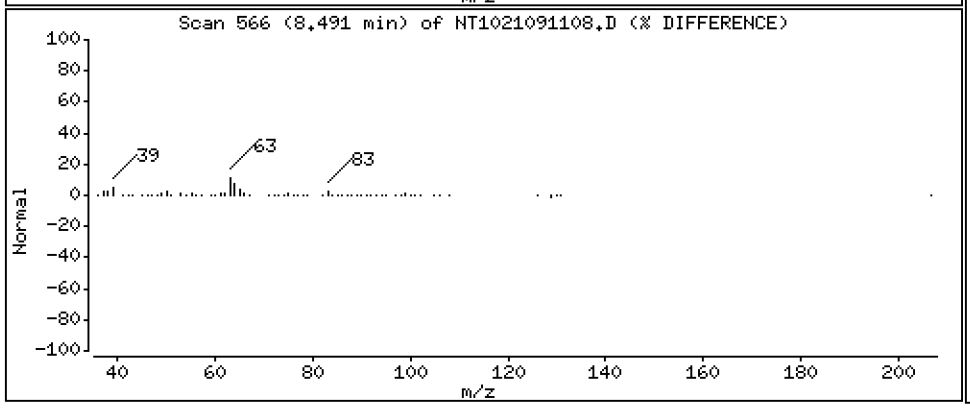












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

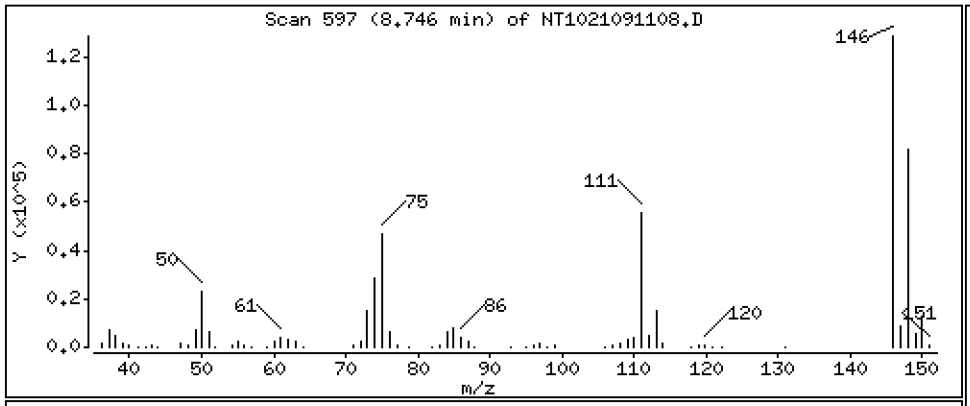
Operator: VTS

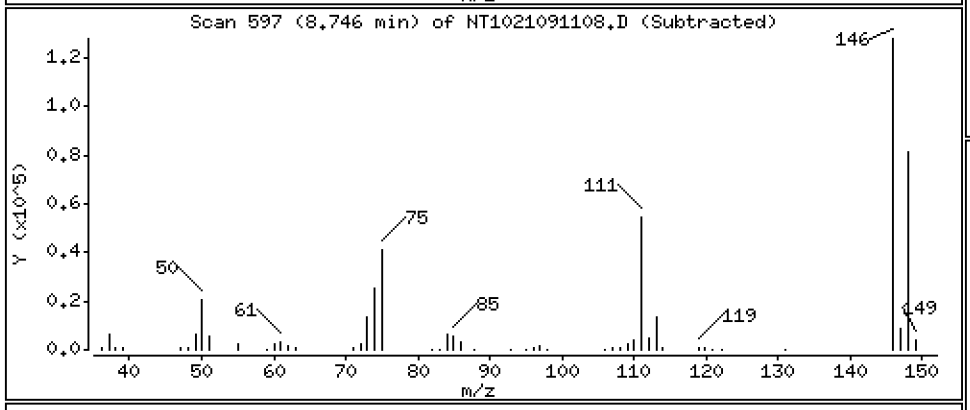
Column phase: ZB-5msi

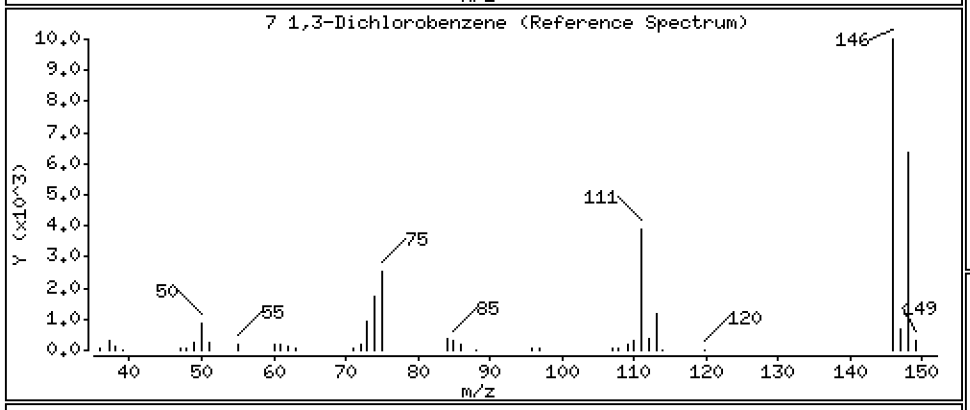
Column diameter: 0.25

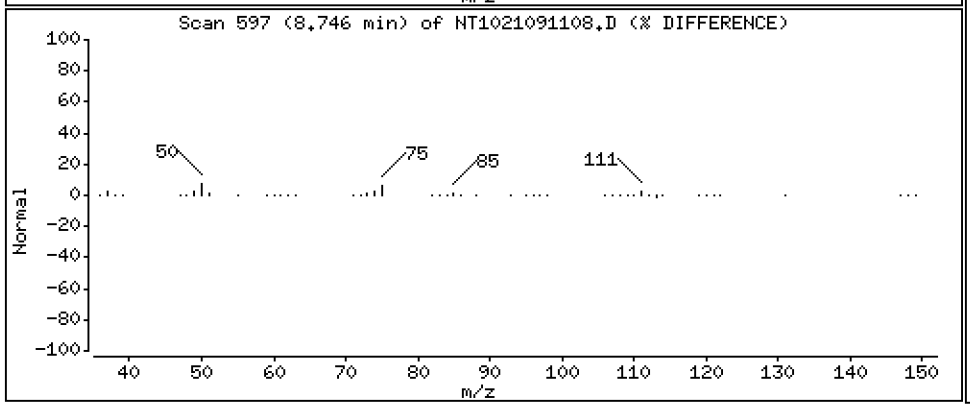
7 1,3-Dichlorobenzene

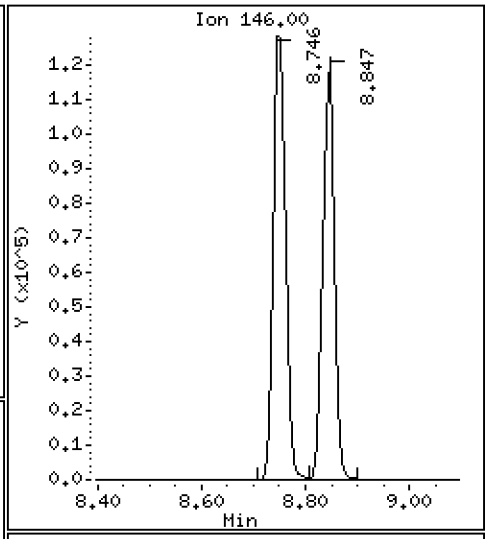
Concentration: 3.848 ug/mL

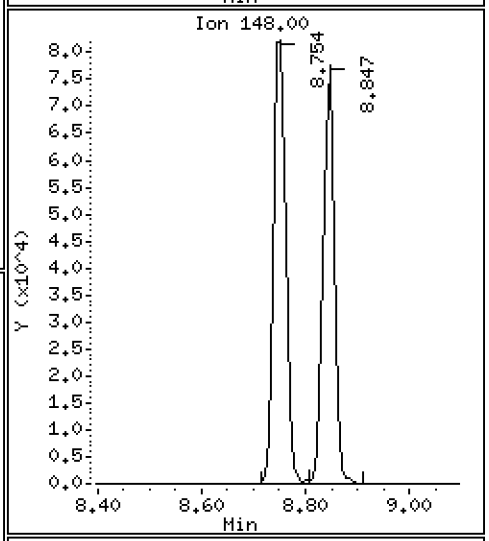


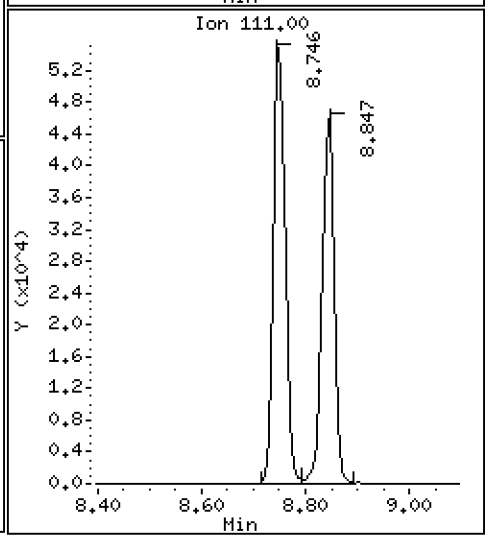












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

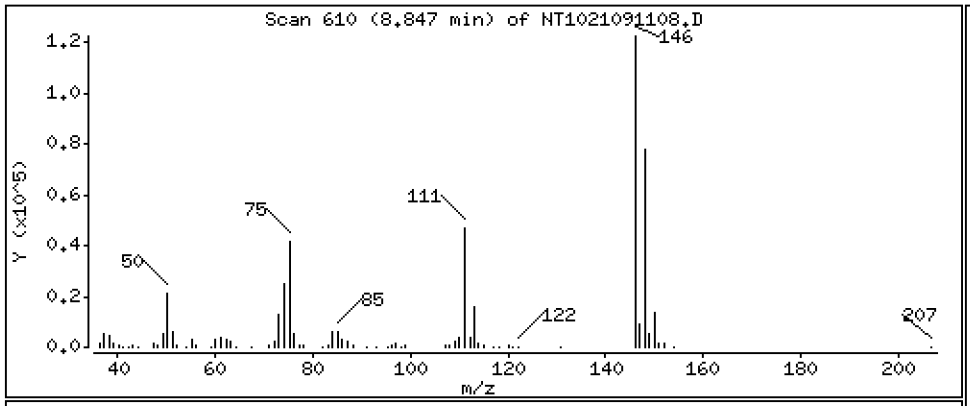
Operator: VTS

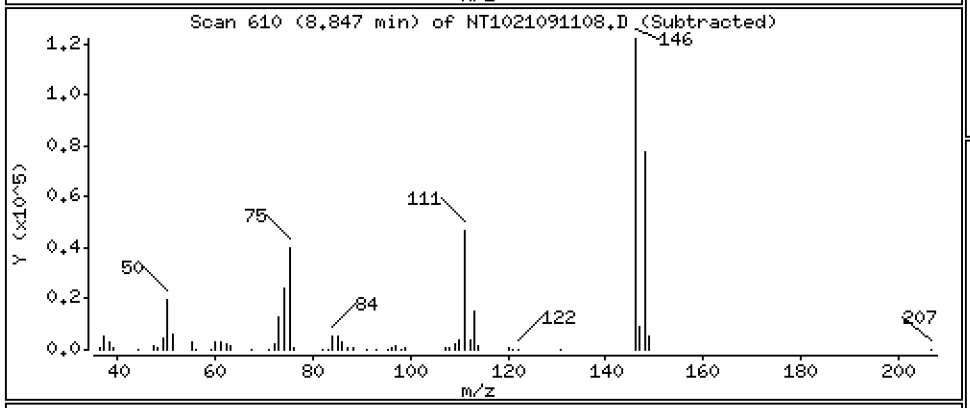
Column phase: ZB-5msi

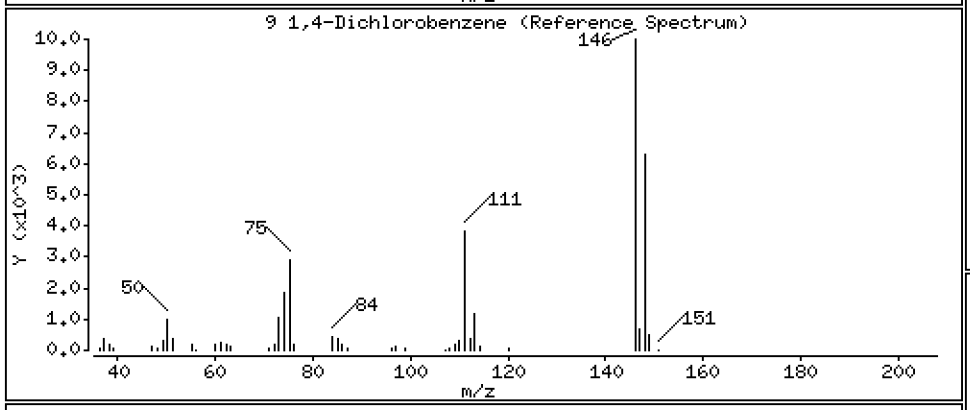
Column diameter: 0.25

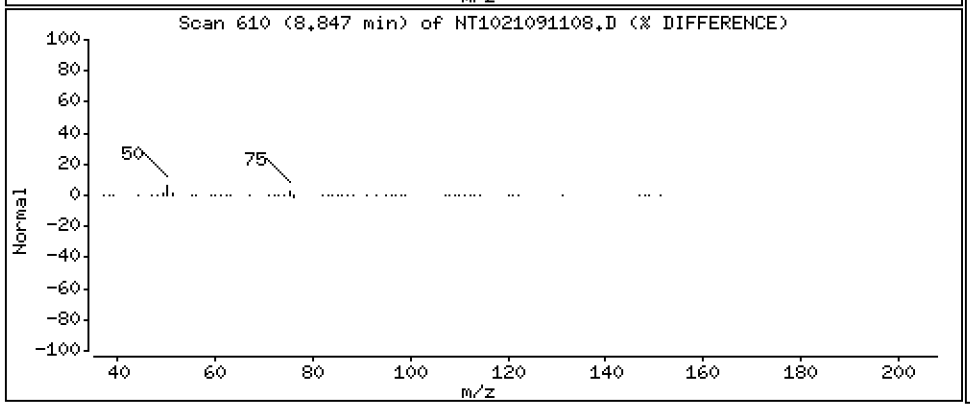
9 1,4-Dichlorobenzene

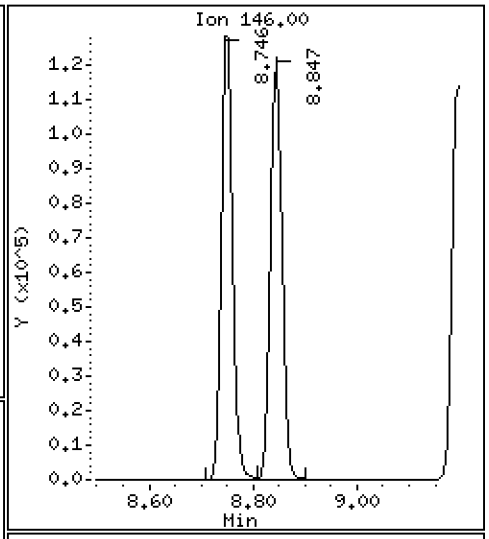
Concentration: 4.512 ug/mL

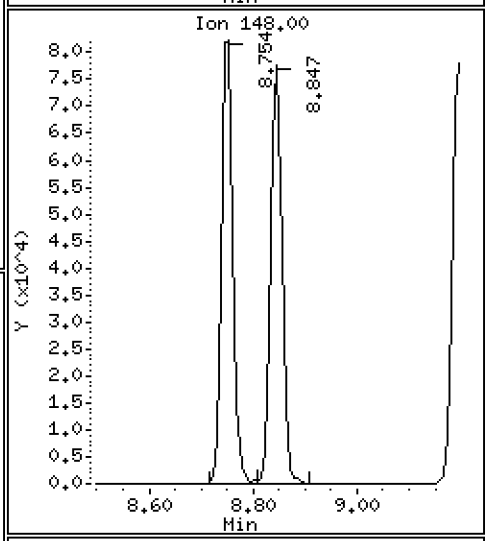


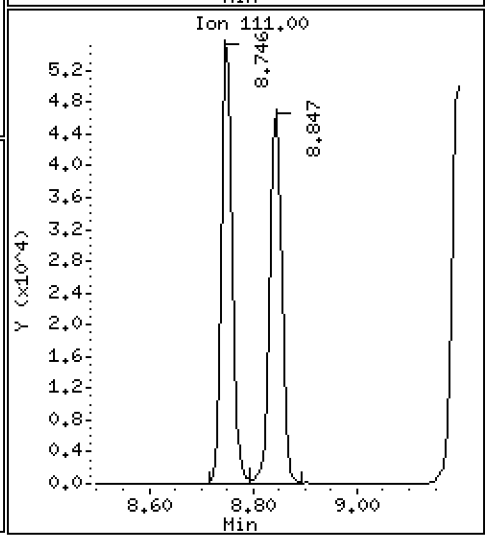












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

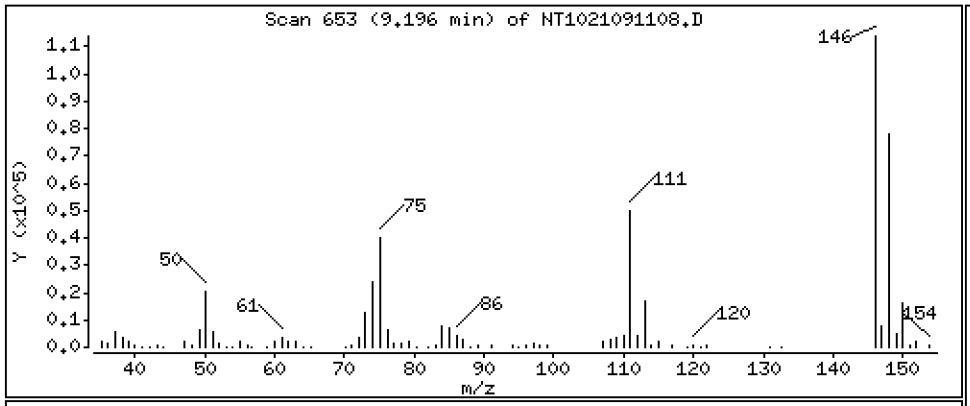
Operator: VTS

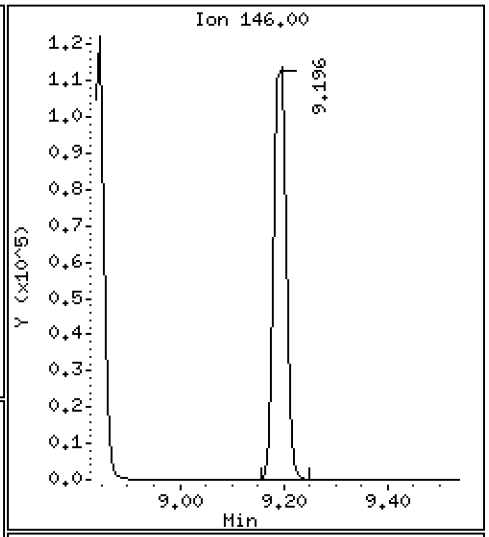
Column phase: ZB-5msi

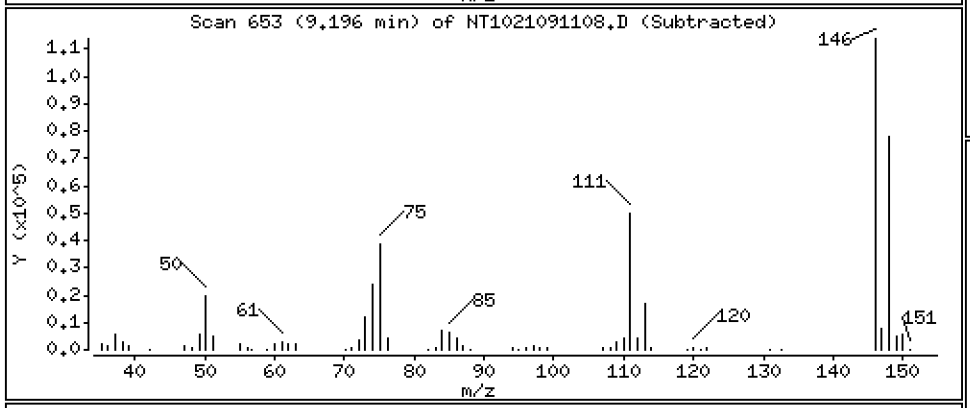
Column diameter: 0.25

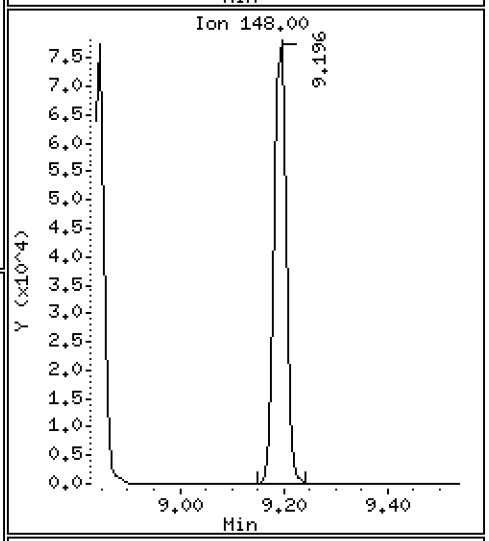
12 1,2-Dichlorobenzene

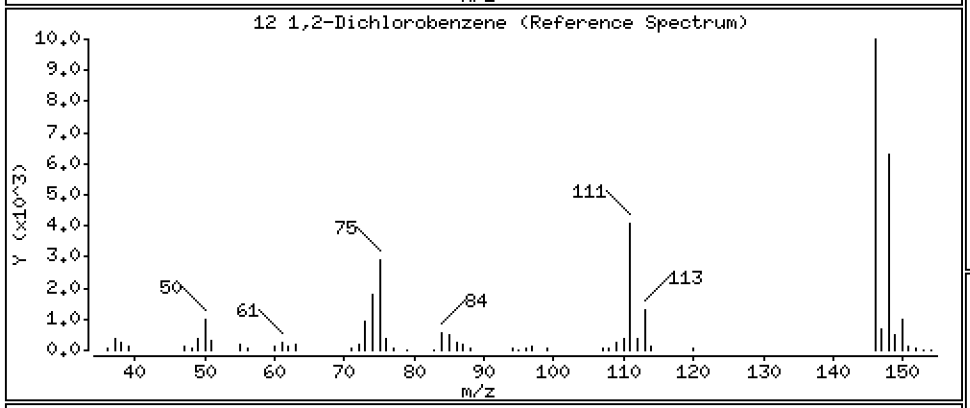
Concentration: 3.981 ug/mL

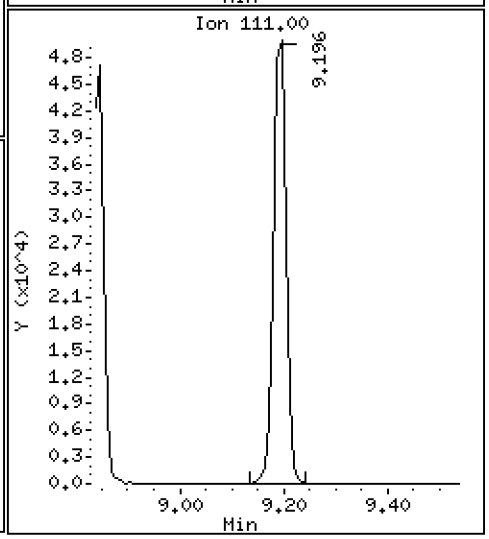


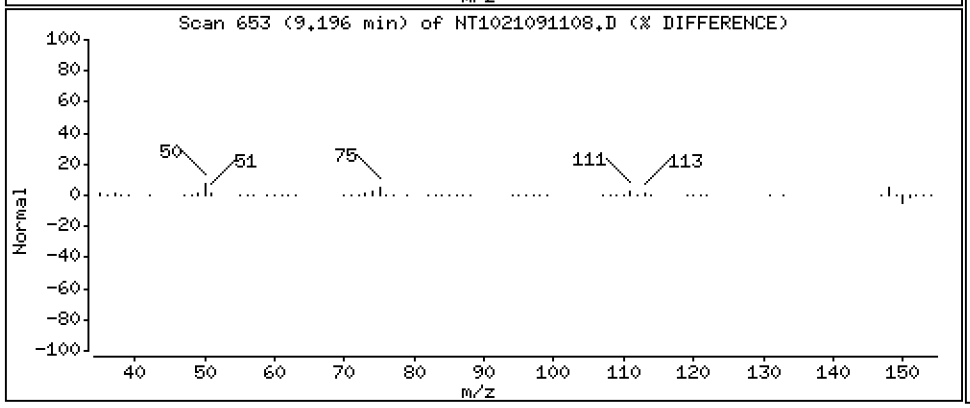












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

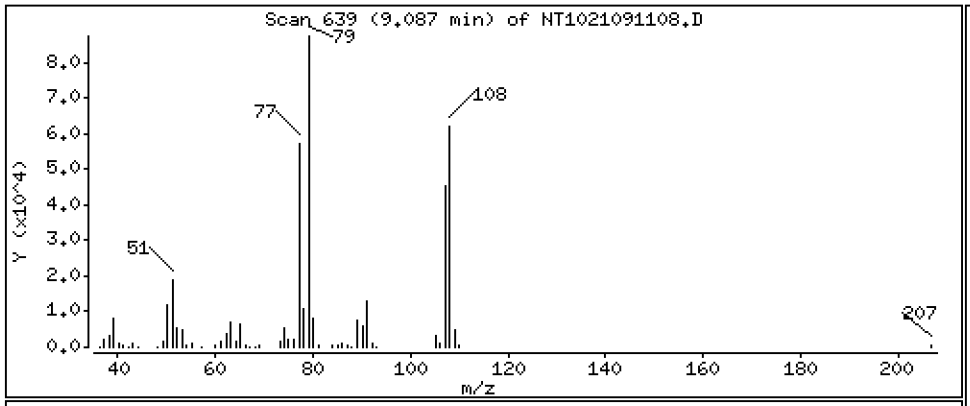
Operator: VTS

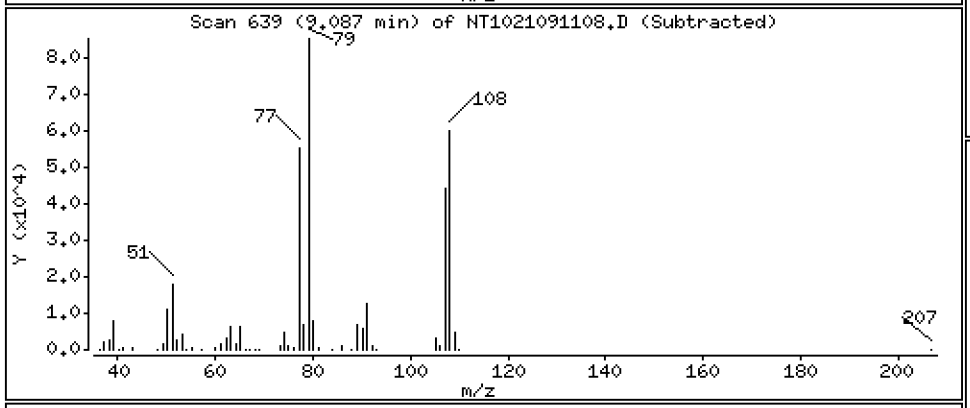
Column phase: ZB-5msi

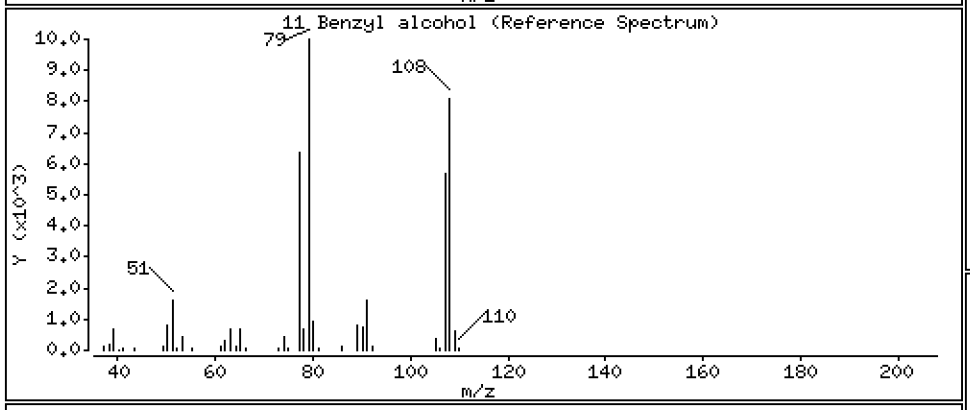
Column diameter: 0.25

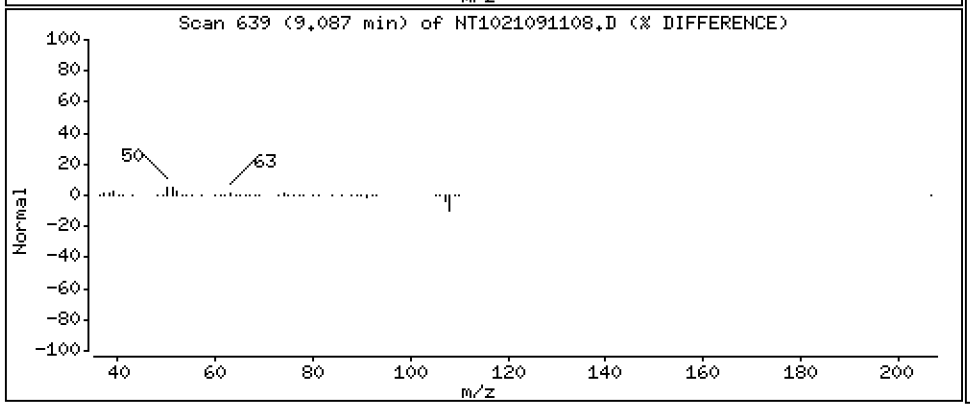
11 Benzyl alcohol

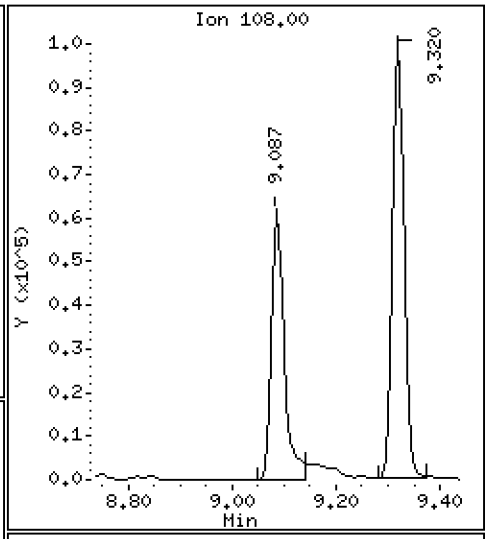
Concentration: 3.600 ug/mL

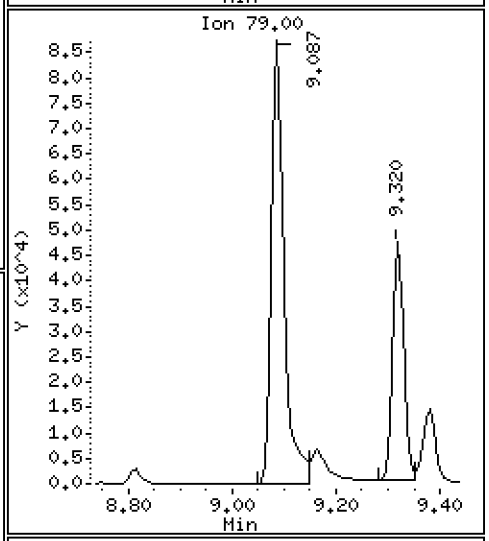


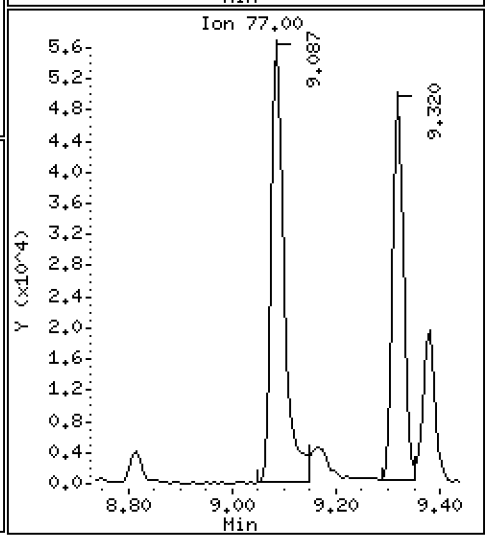












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

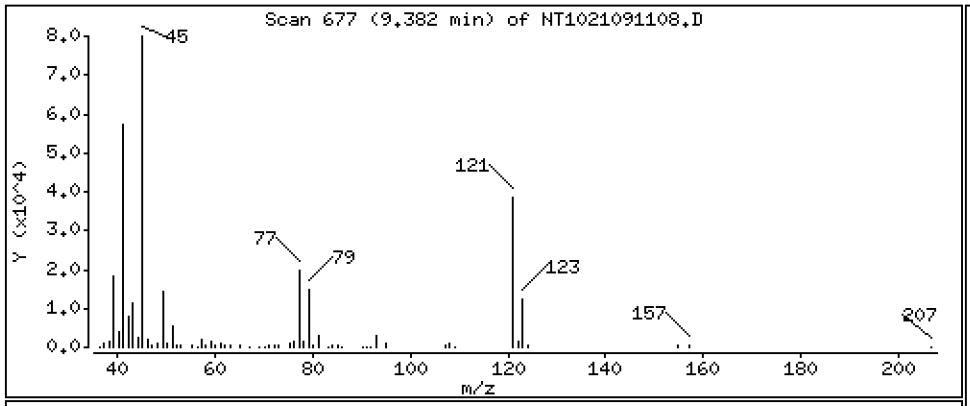
Operator: VTS

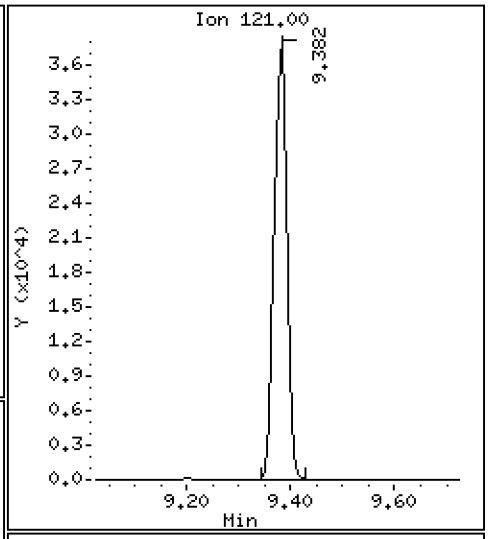
Column phase: ZB-5msi

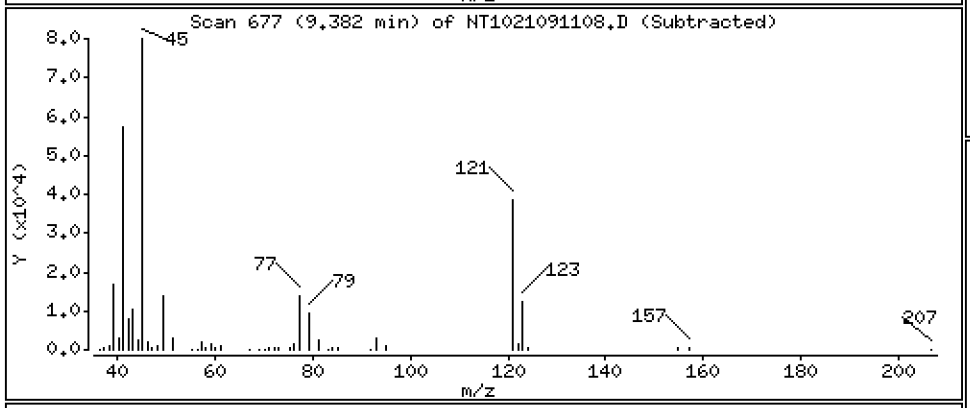
Column diameter: 0.25

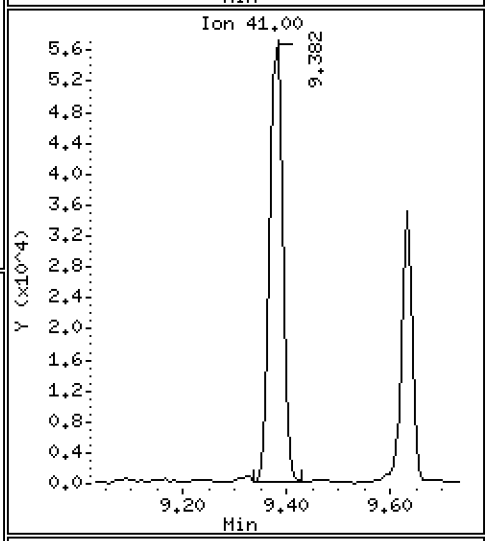
14 2,2'-oxybis(1-Chloropropane)

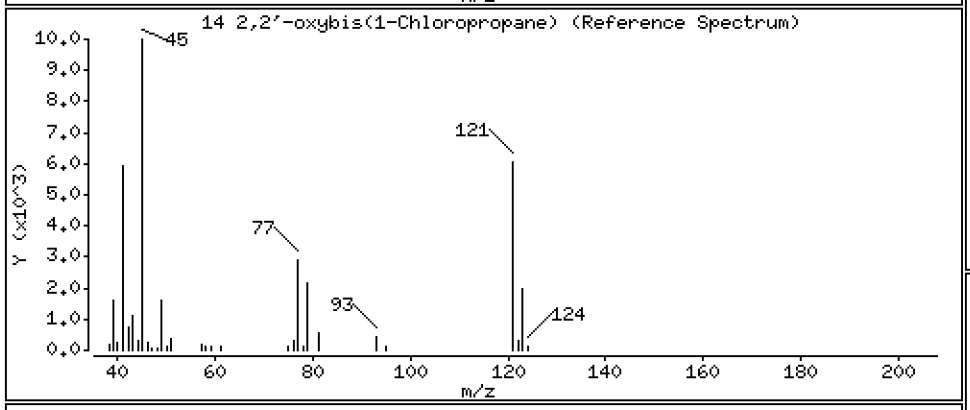
Concentration: 4.690 ug/mL

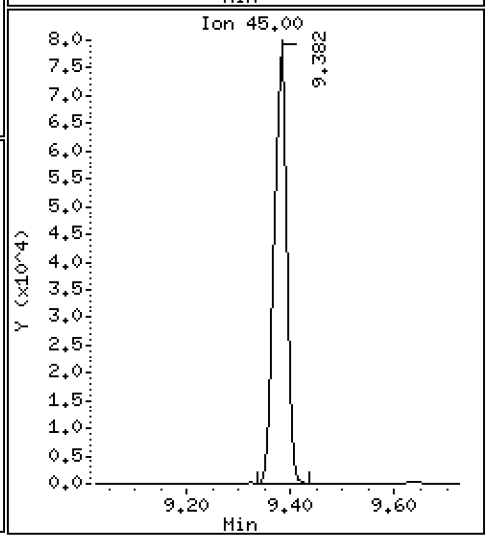


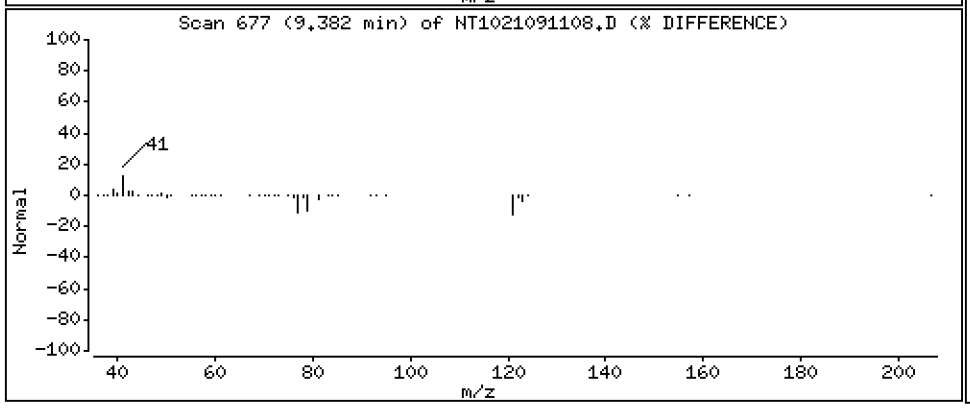












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

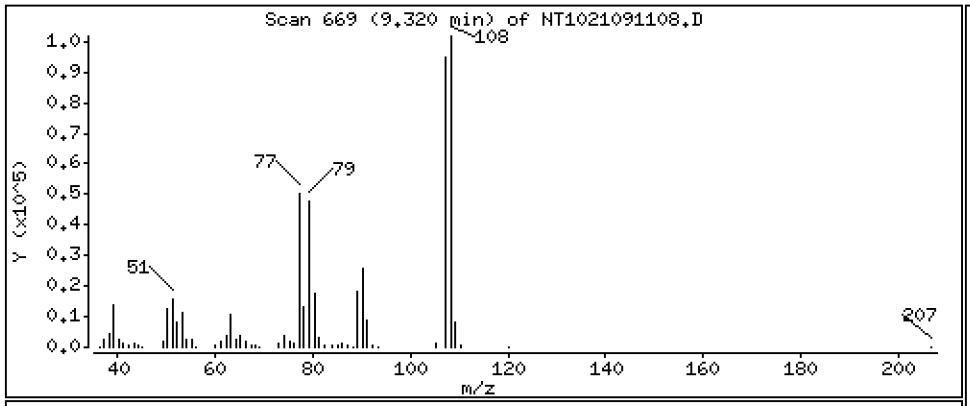
Operator: VTS

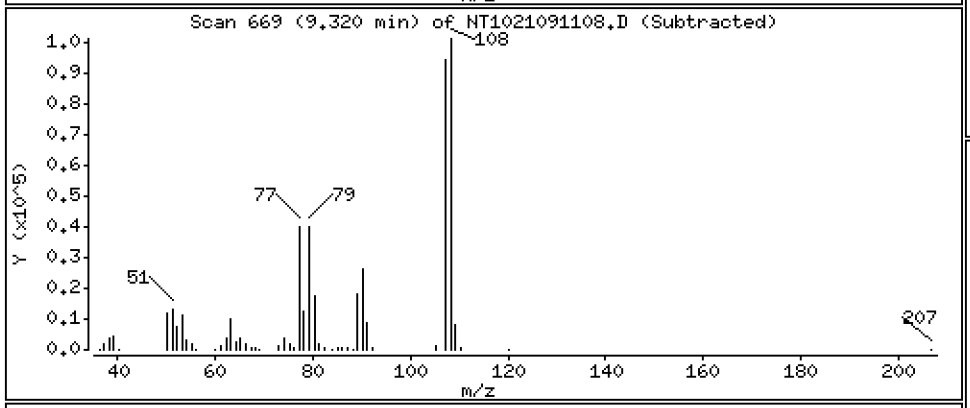
Column phase: ZB-5msi

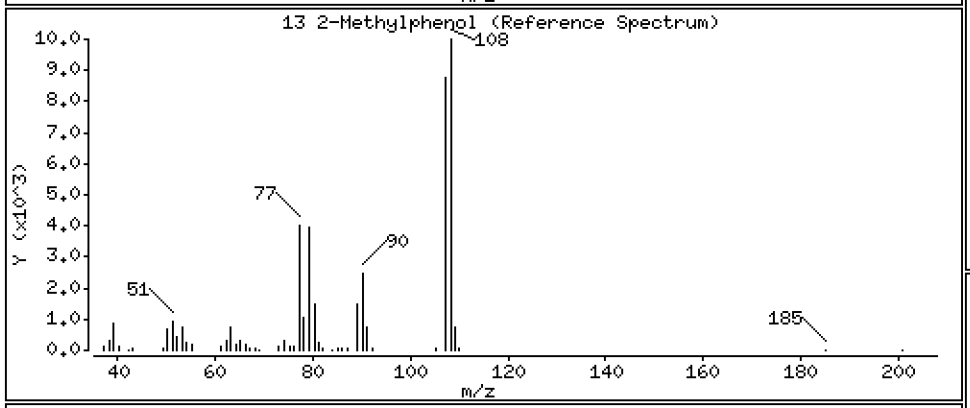
Column diameter: 0.25

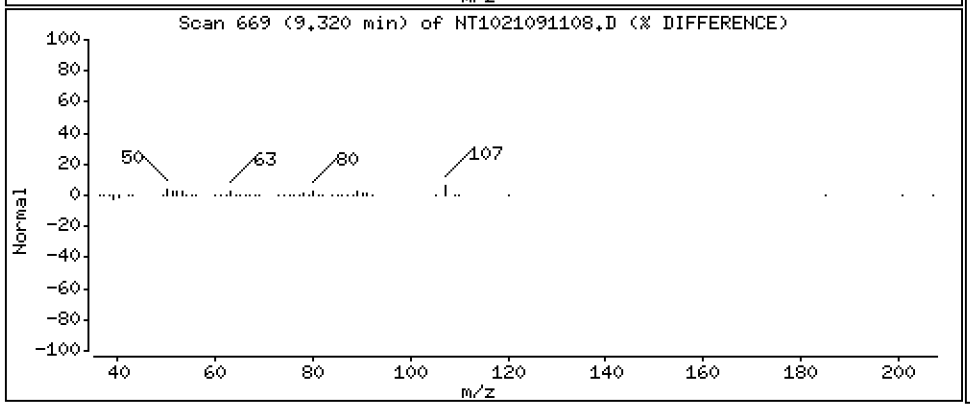
13 2-Methylphenol

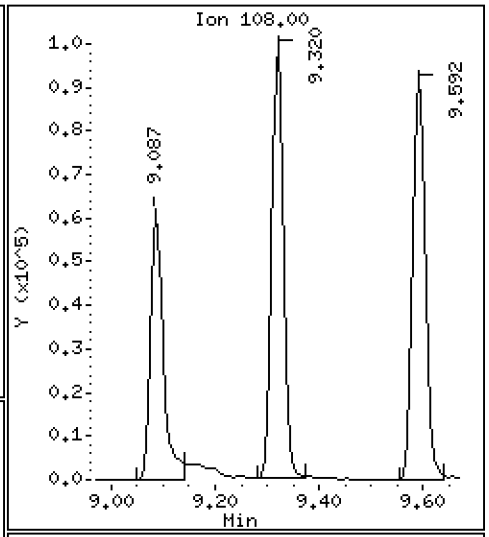
Concentration: 3.754 ug/mL

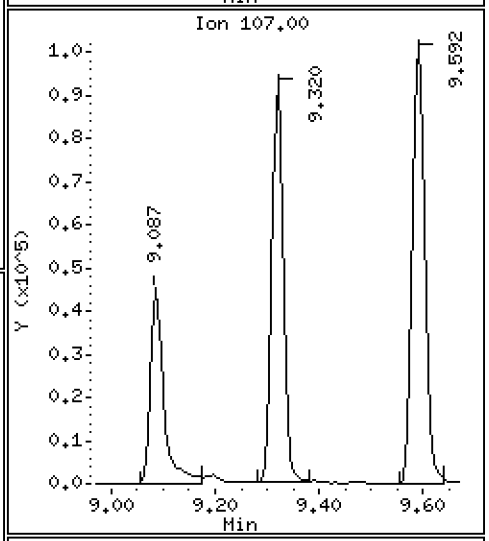


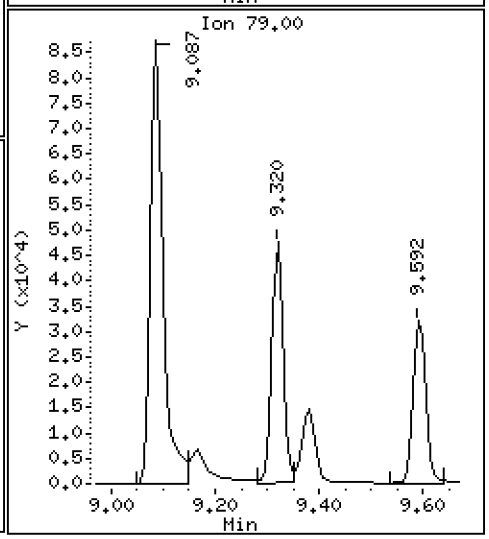












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

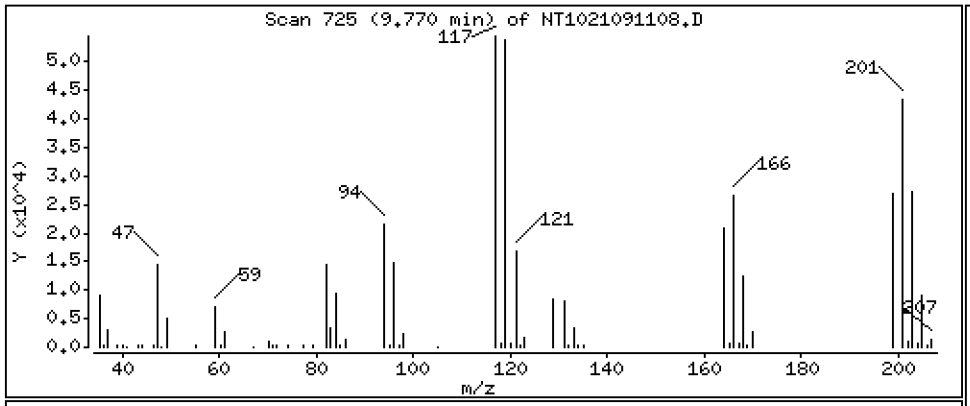
Operator: VTS

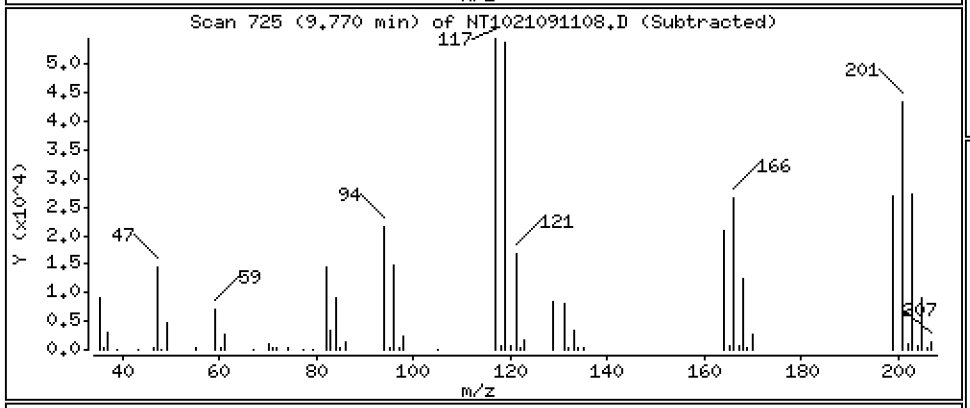
Column phase: ZB-5msi

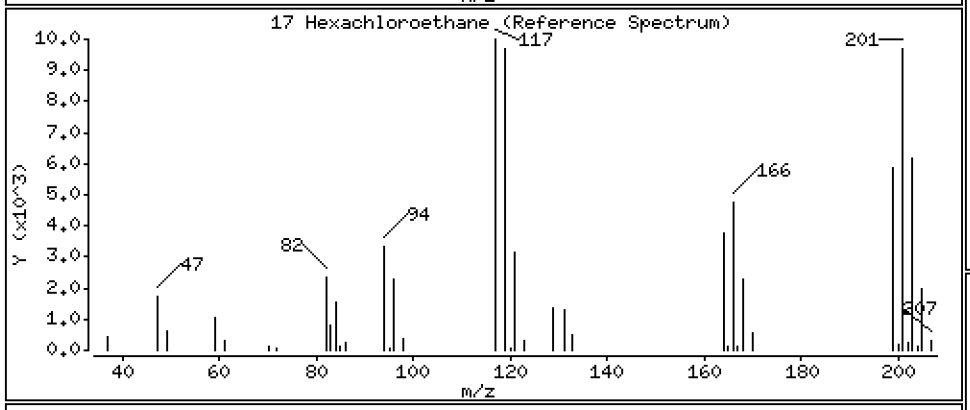
Column diameter: 0.25

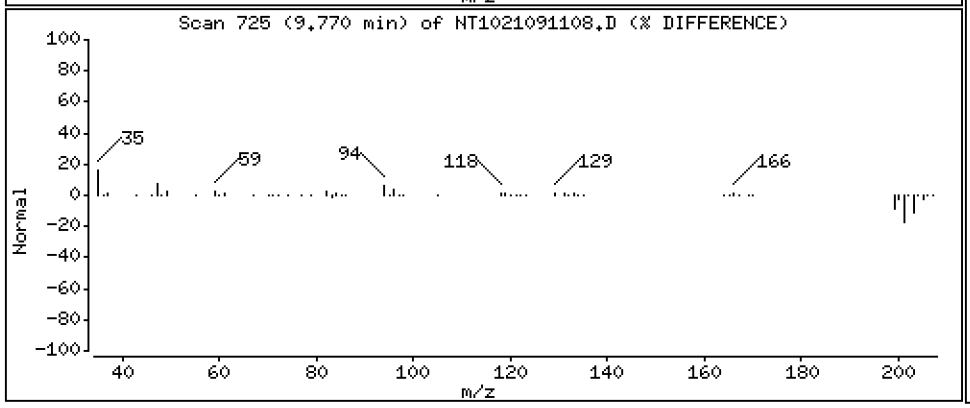
17 Hexachloroethane

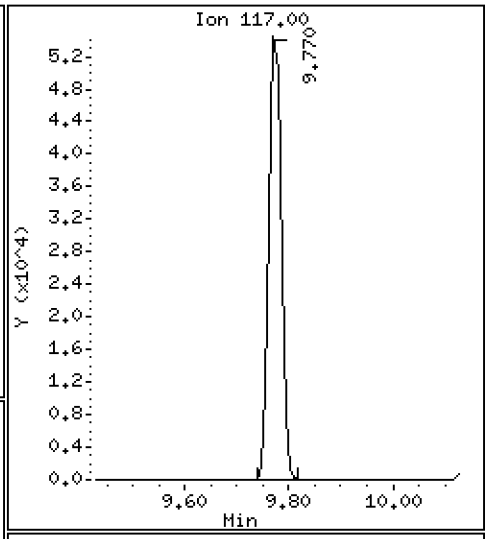
Concentration: 5.036 ug/mL

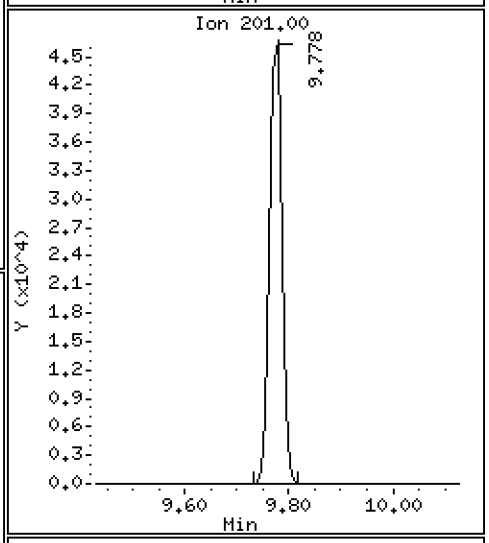


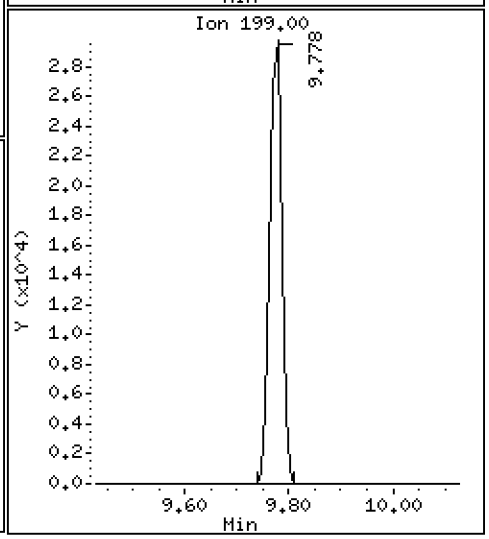












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

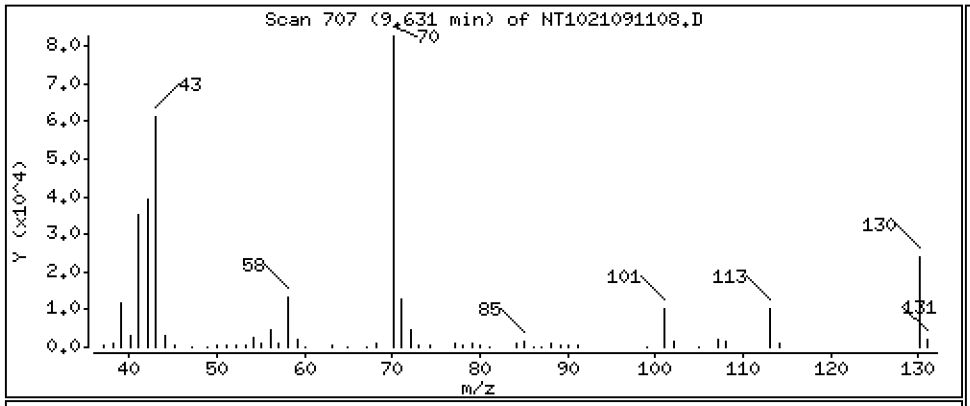
Operator: VTS

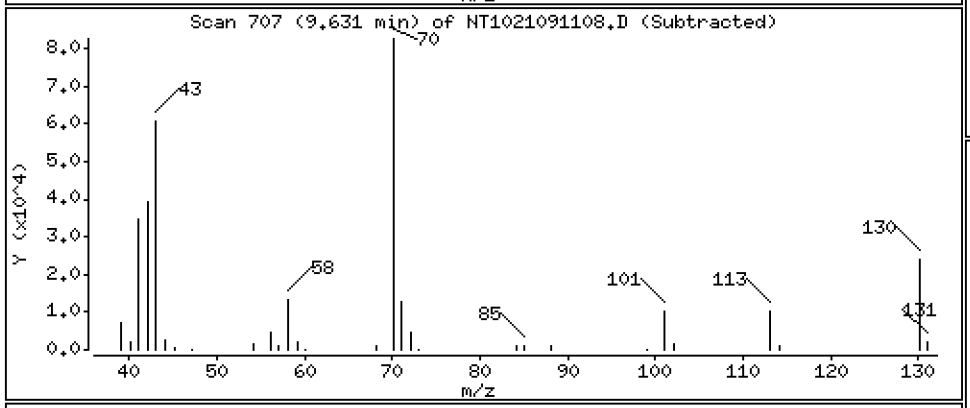
Column phase: ZB-5msi

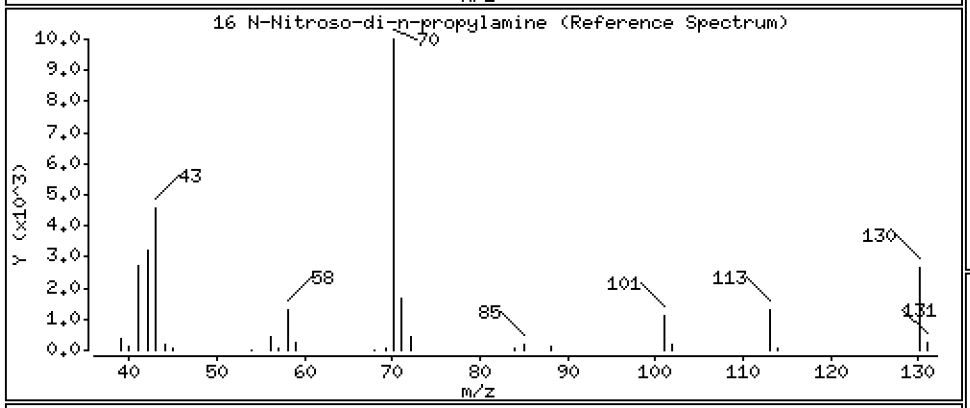
Column diameter: 0.25

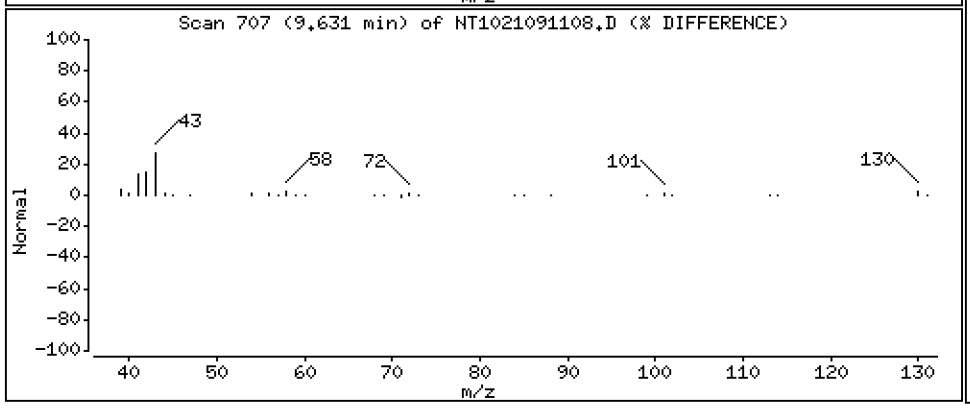
16 N-Nitroso-di-n-propylamine

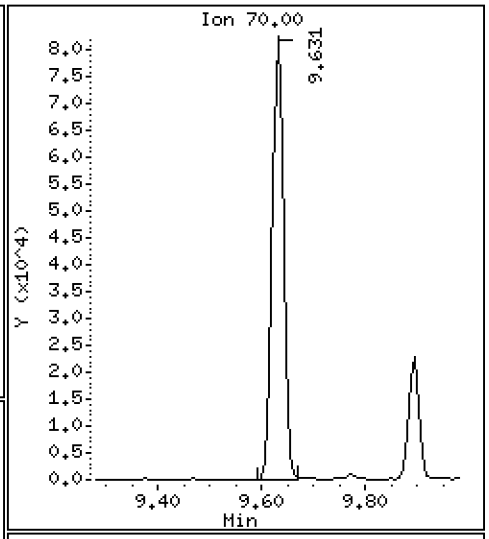
Concentration: 4.400 ug/mL

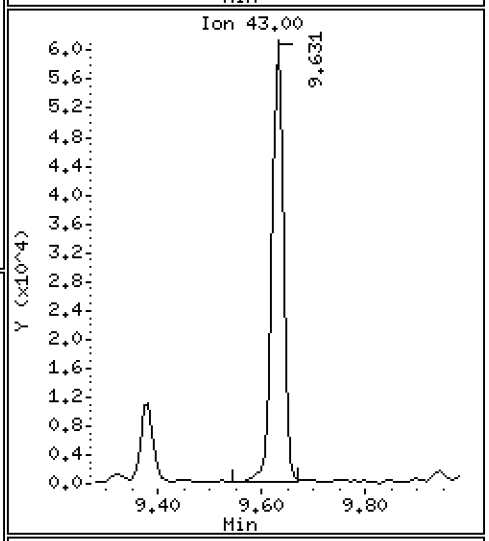


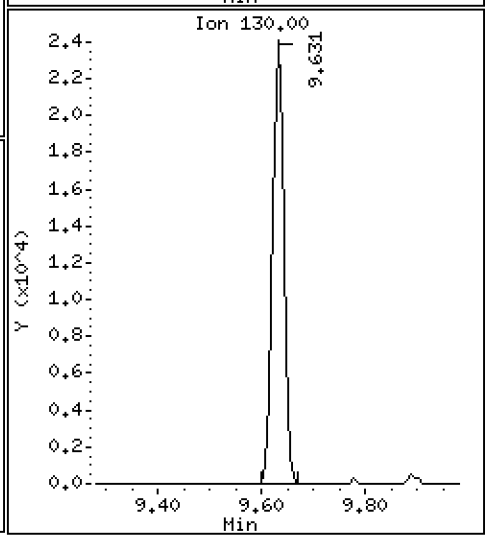












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

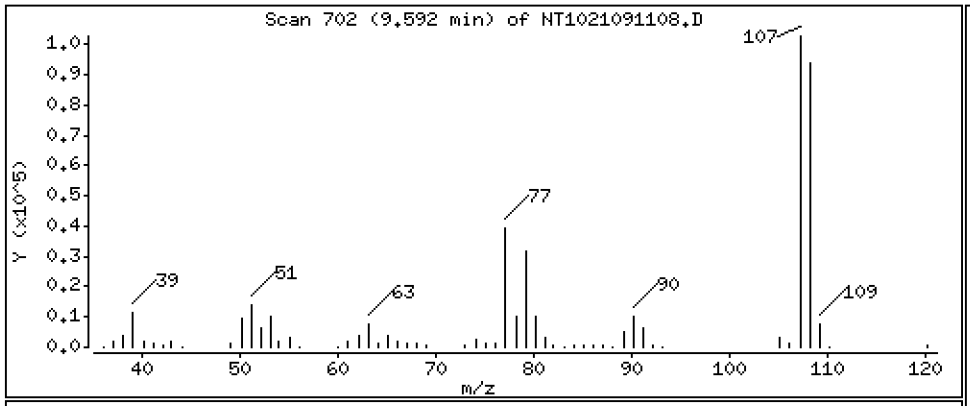
Operator: VTS

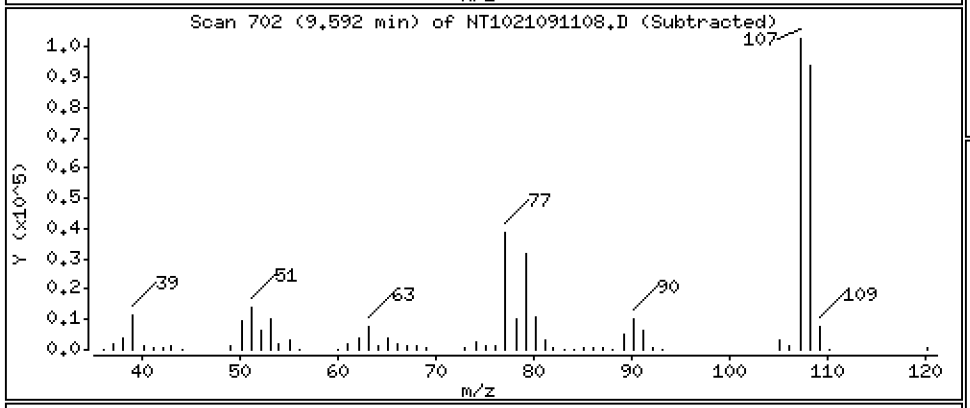
Column phase: ZB-5msi

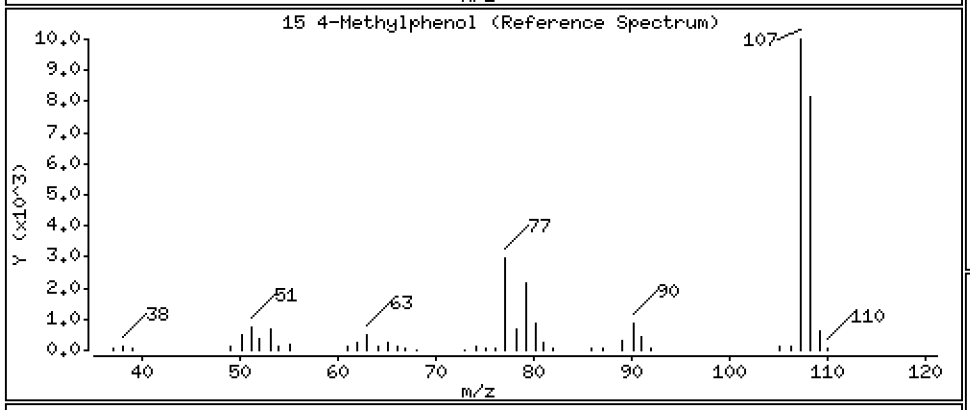
Column diameter: 0.25

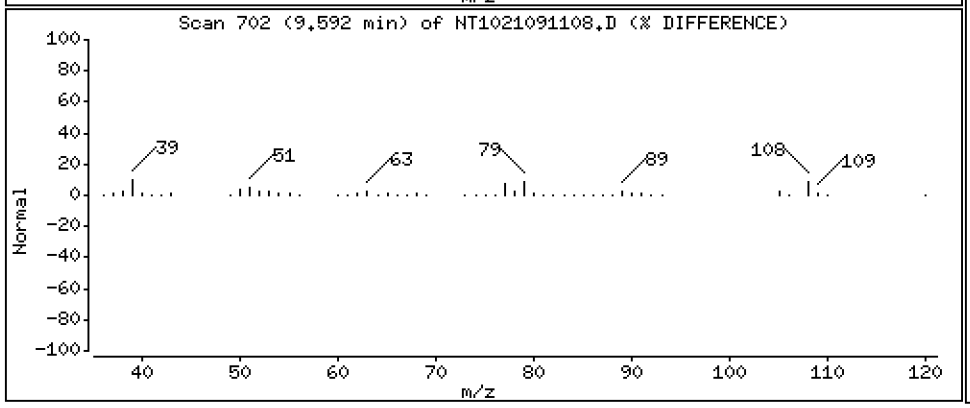
15 4-Methylphenol

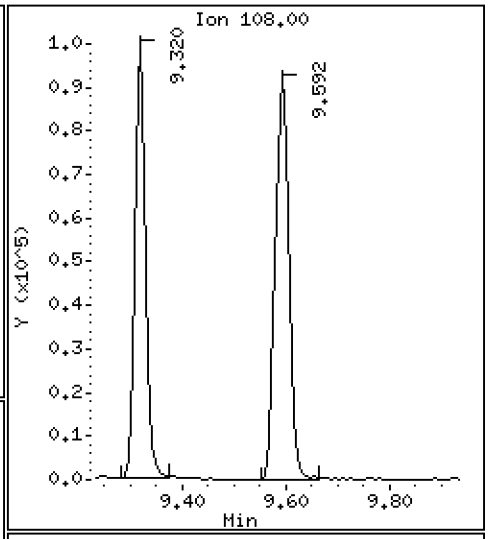
Concentration: 4.072 ug/mL

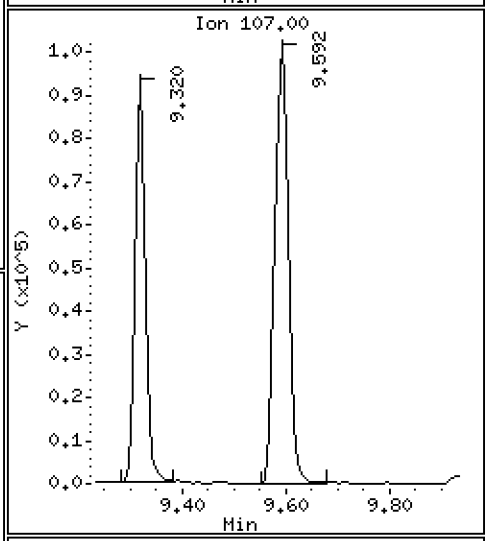


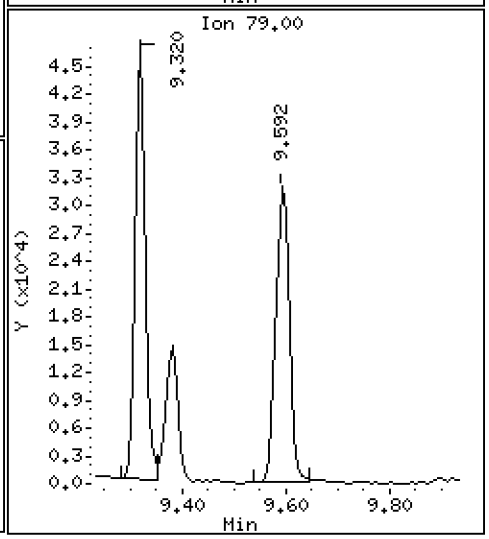












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

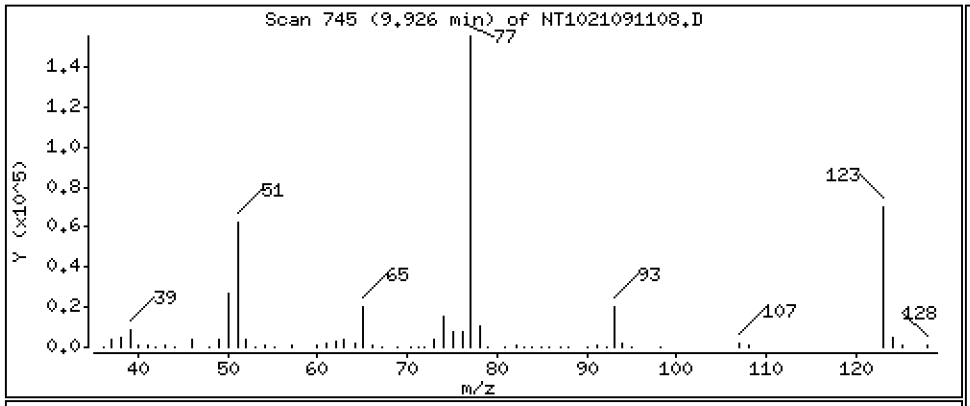
Operator: VTS

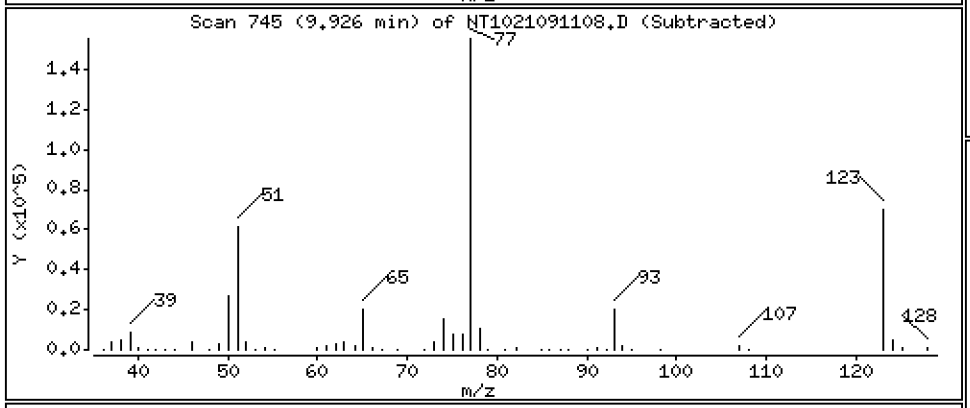
Column phase: ZB-5msi

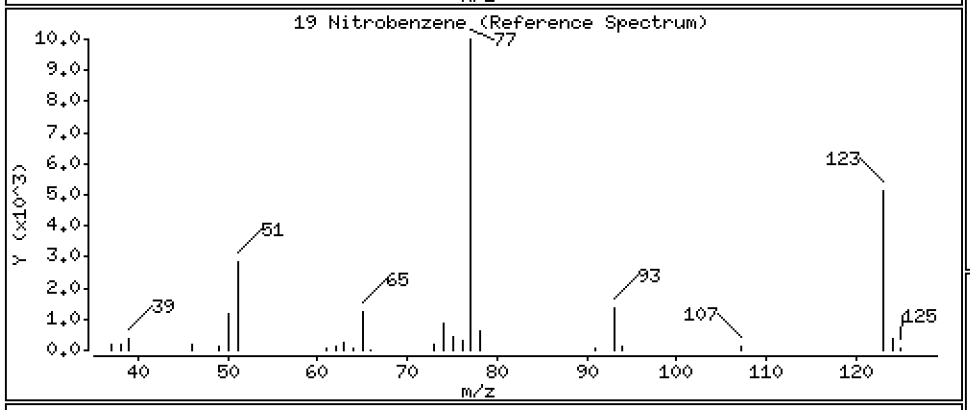
Column diameter: 0.25

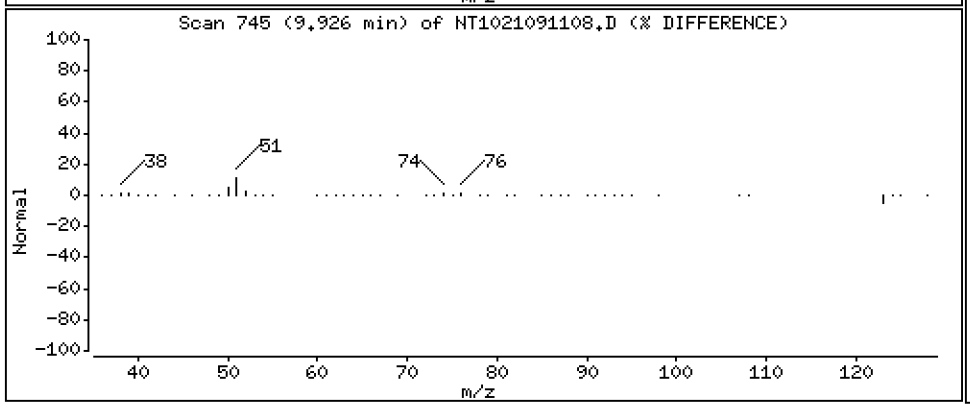
19 Nitrobenzene

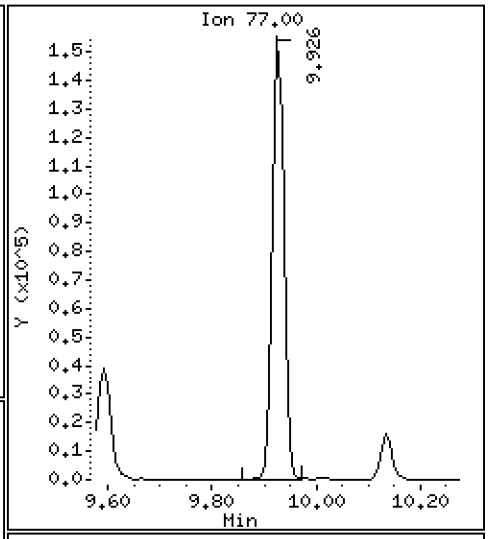
Concentration: 5.153 ug/mL

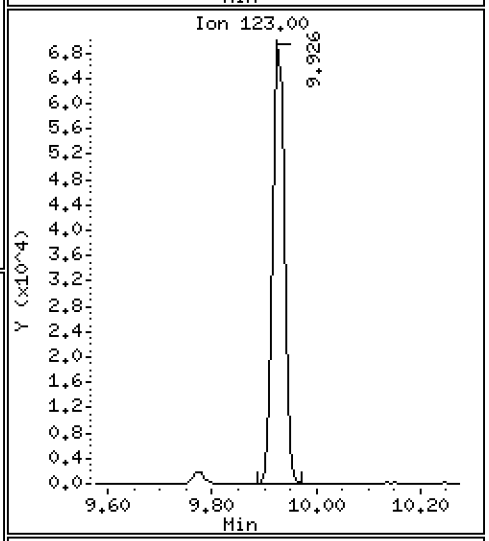


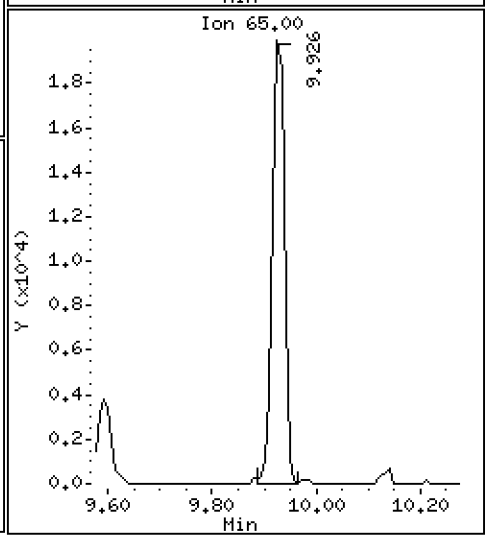












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

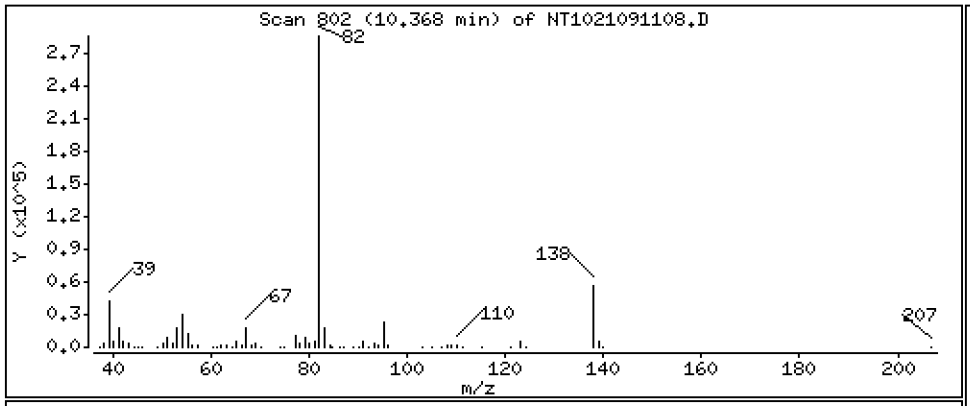
Operator: VTS

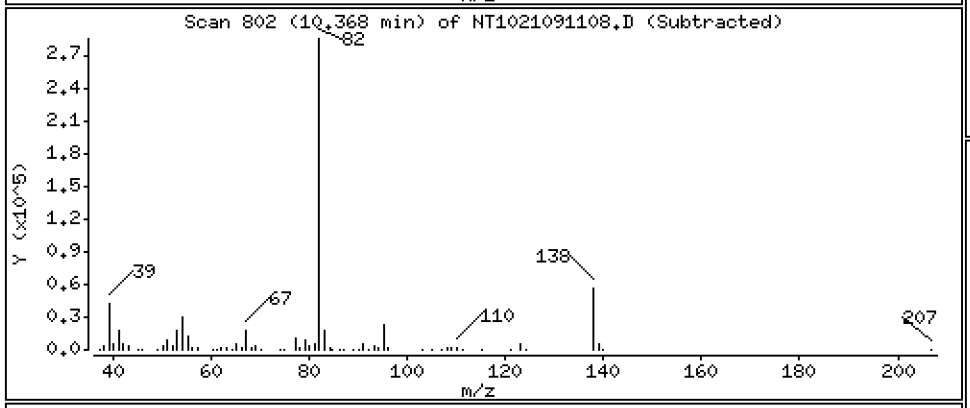
Column phase: ZB-5msi

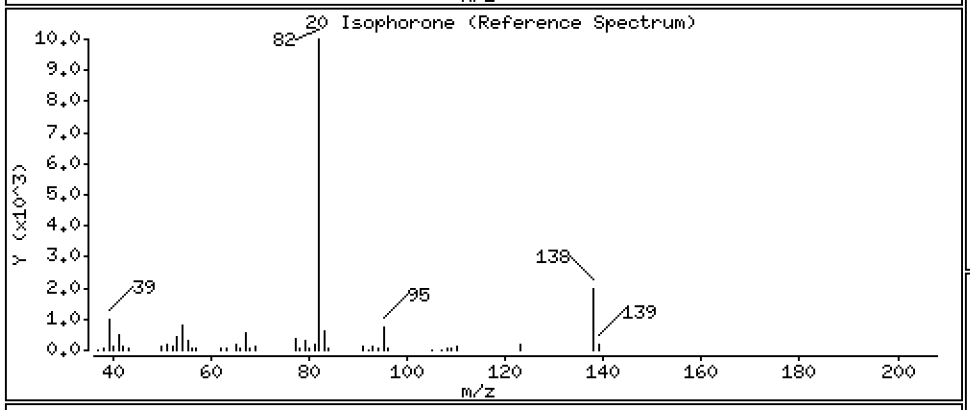
Column diameter: 0.25

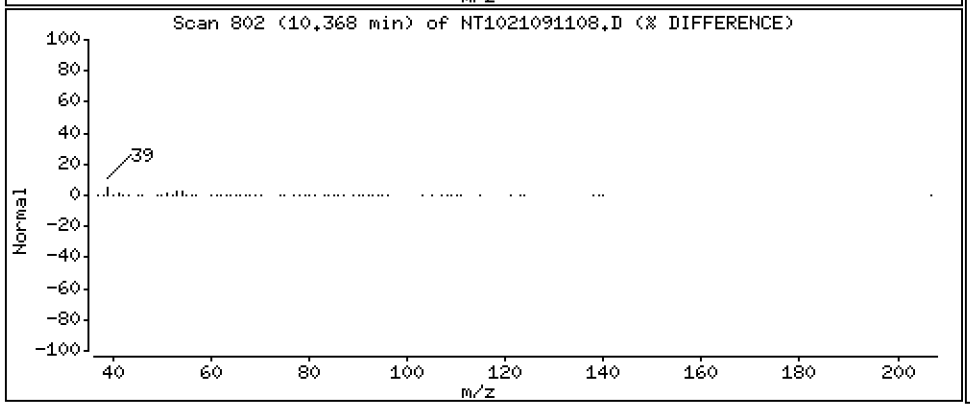
20 Isophorone

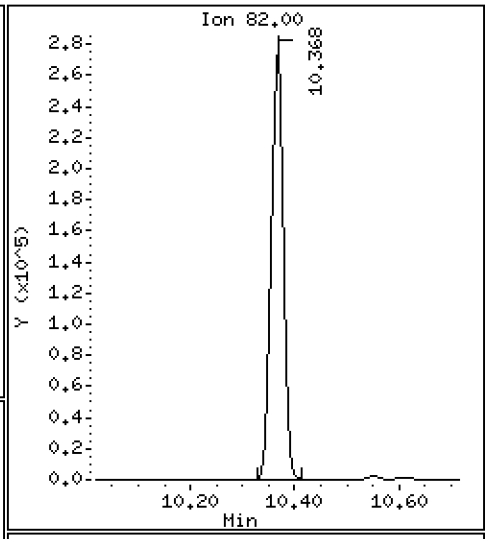
Concentration: 6.411 ug/mL

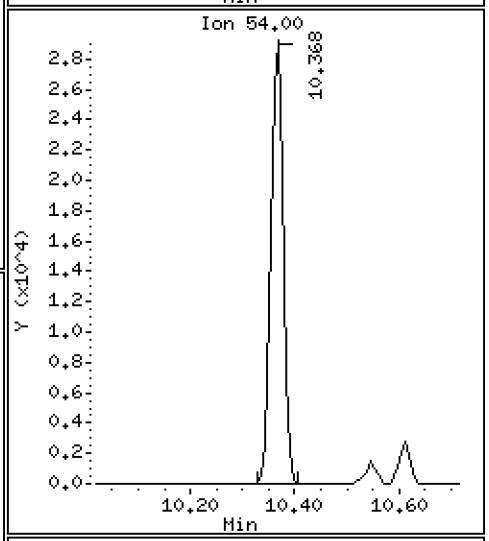


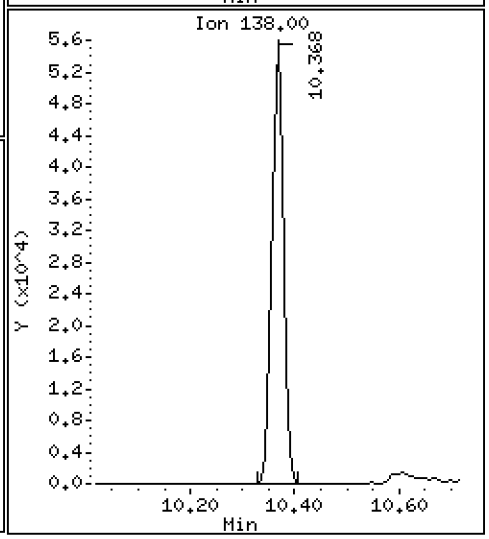












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

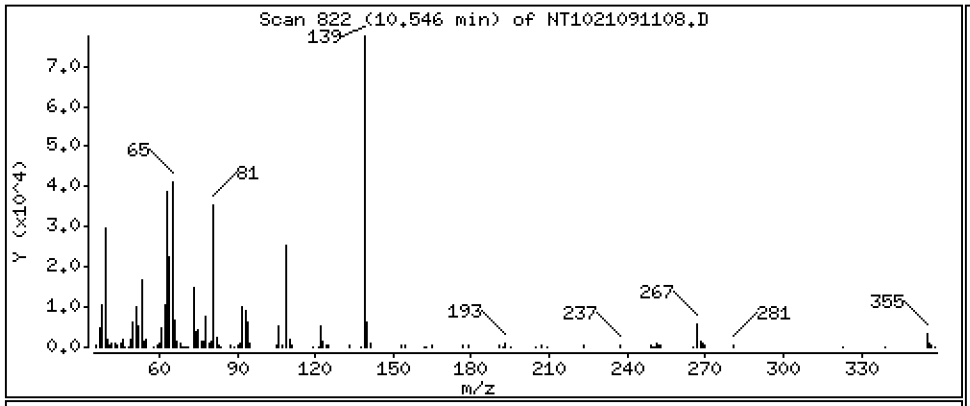
Operator: VTS

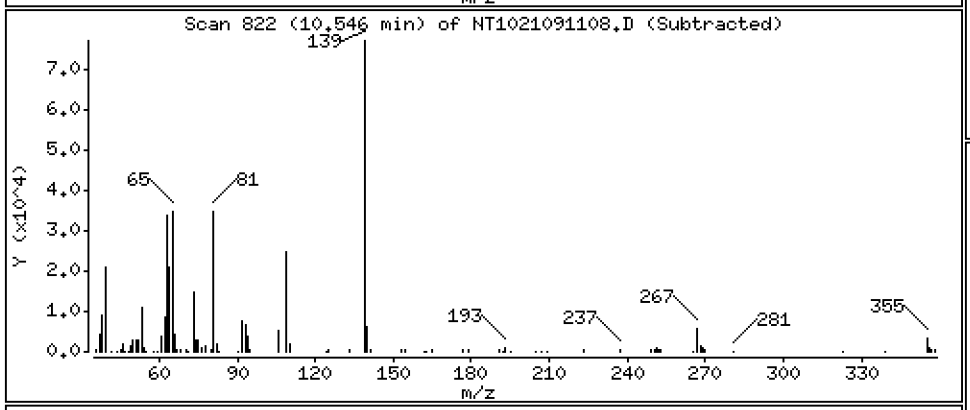
Column phase: ZB-5msi

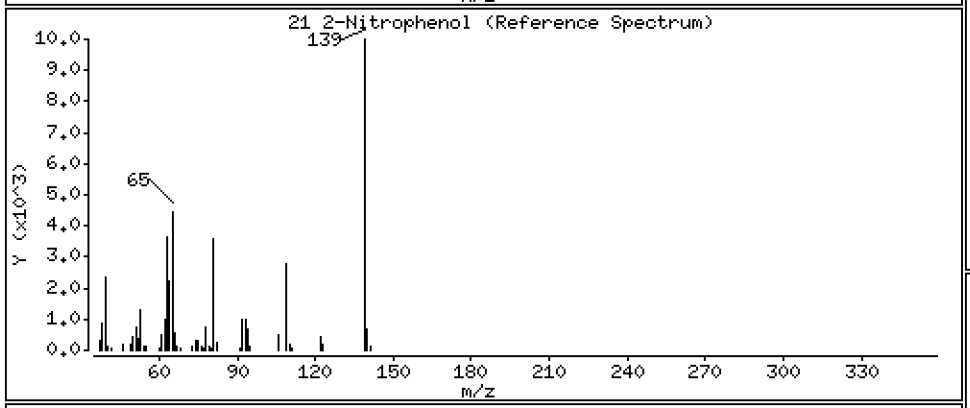
Column diameter: 0.25

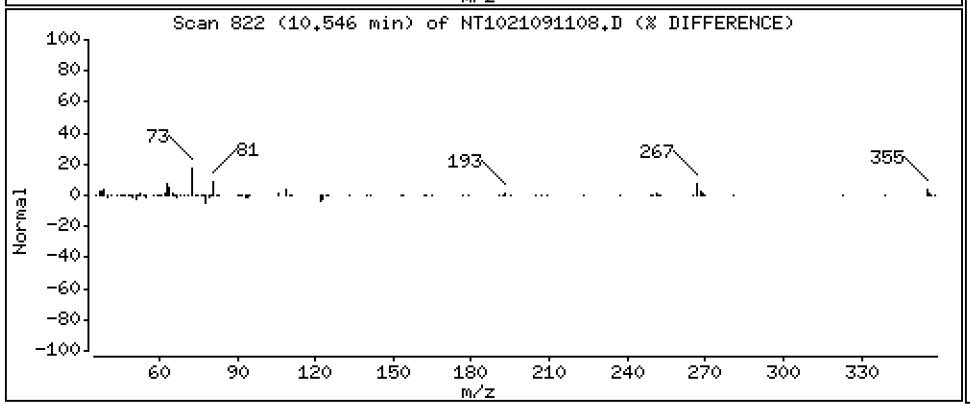
21 2-Nitrophenol

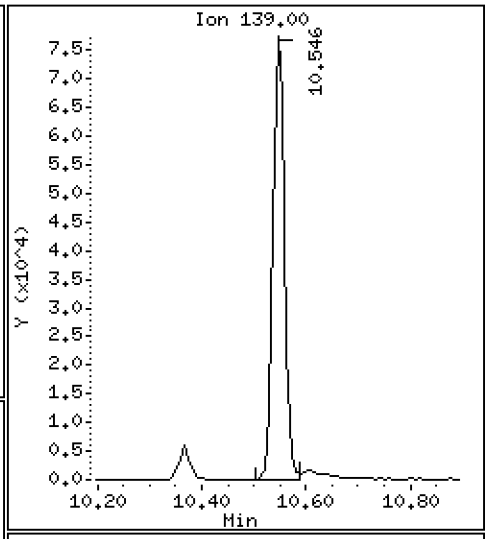
Concentration: 4.750 ug/mL

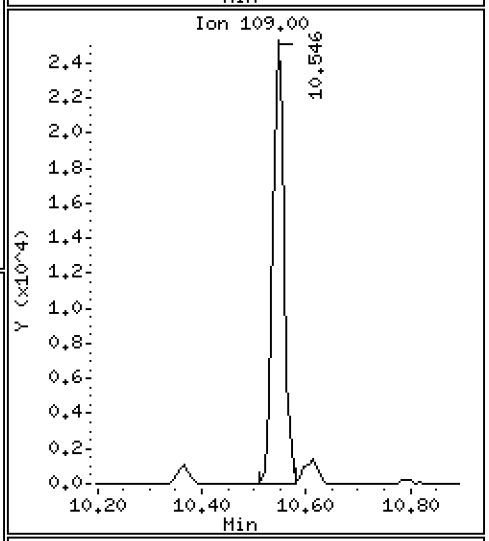


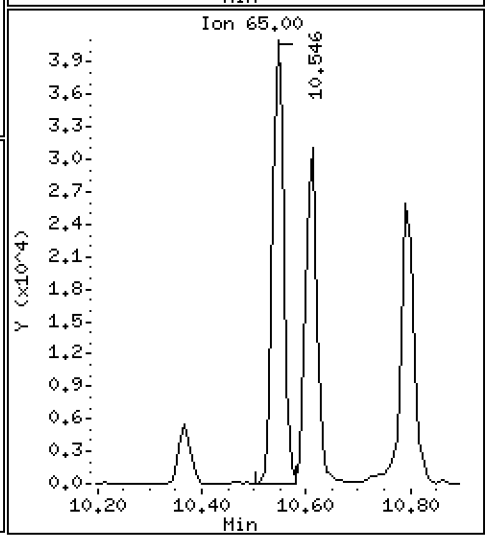












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

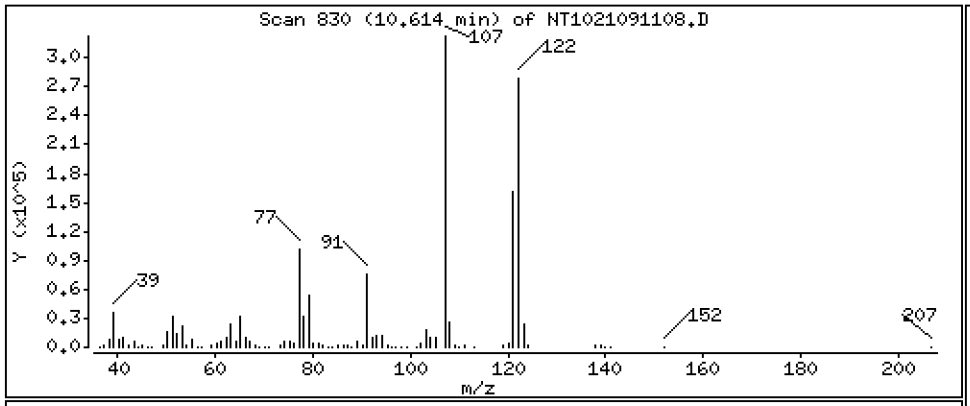
Operator: VTS

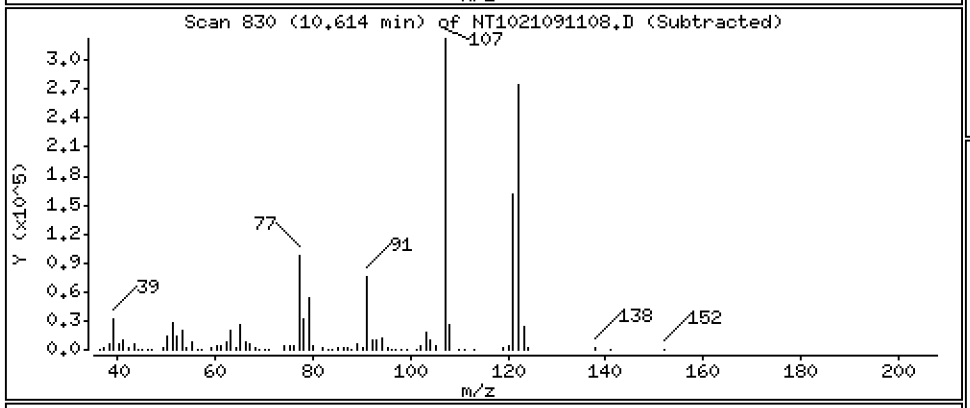
Column phase: ZB-5msi

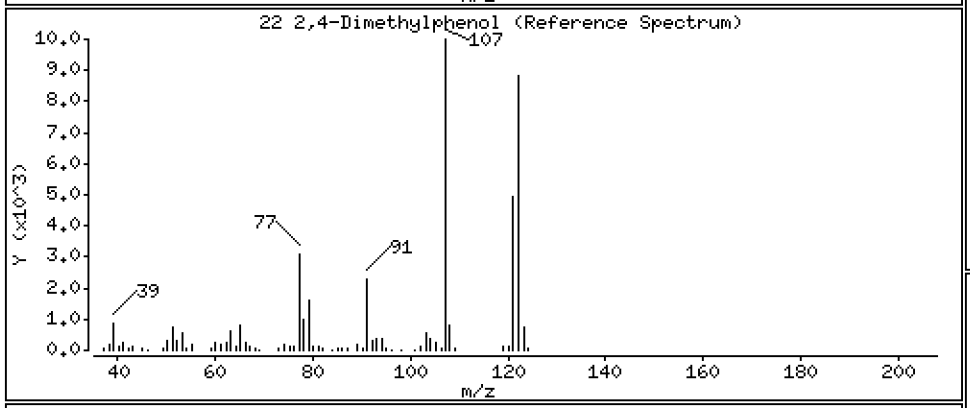
Column diameter: 0.25

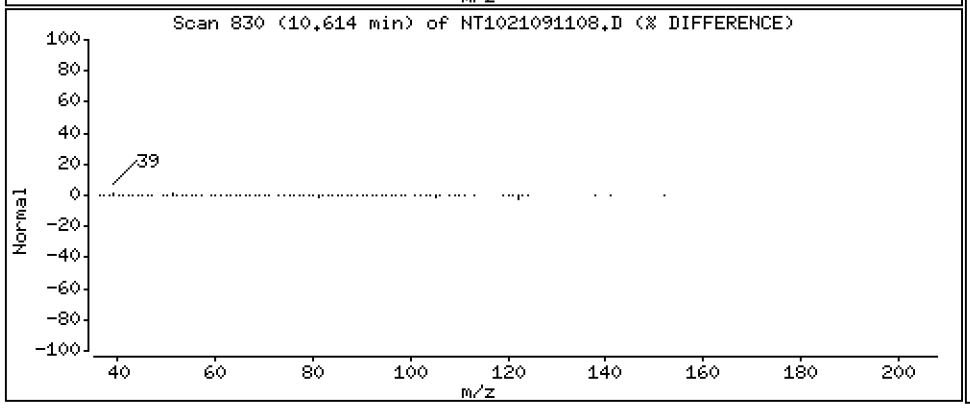
22 2,4-Dimethylphenol

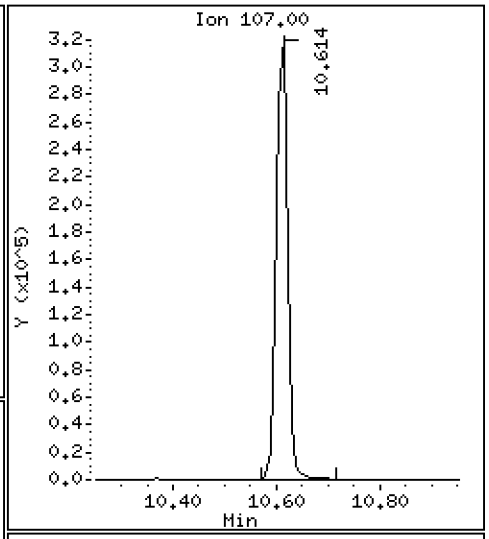
Concentration: 12.64 ug/mL

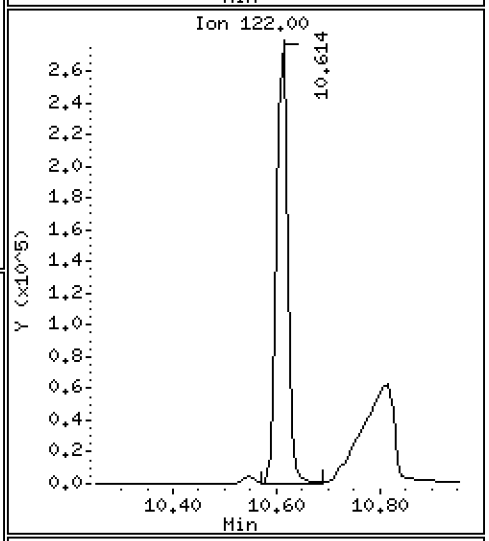


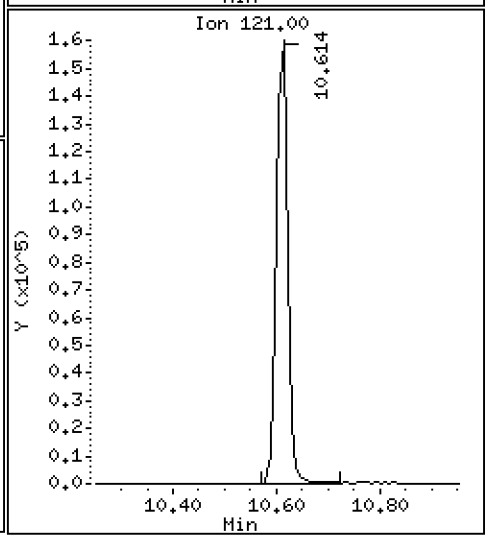












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

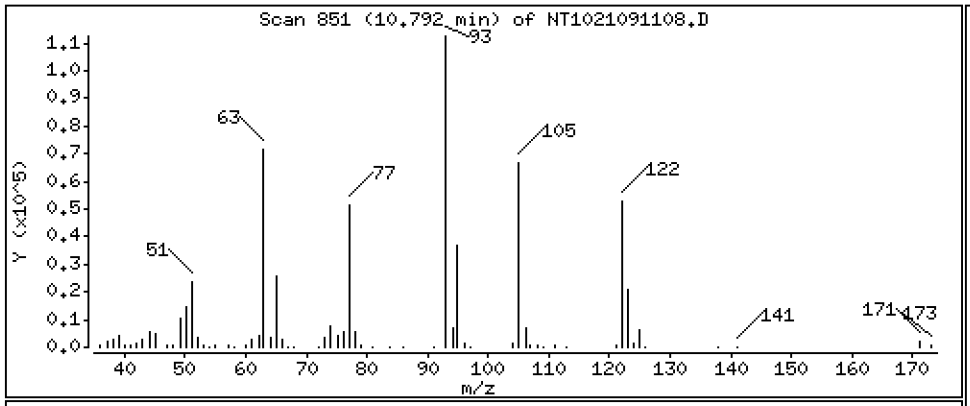
Operator: VTS

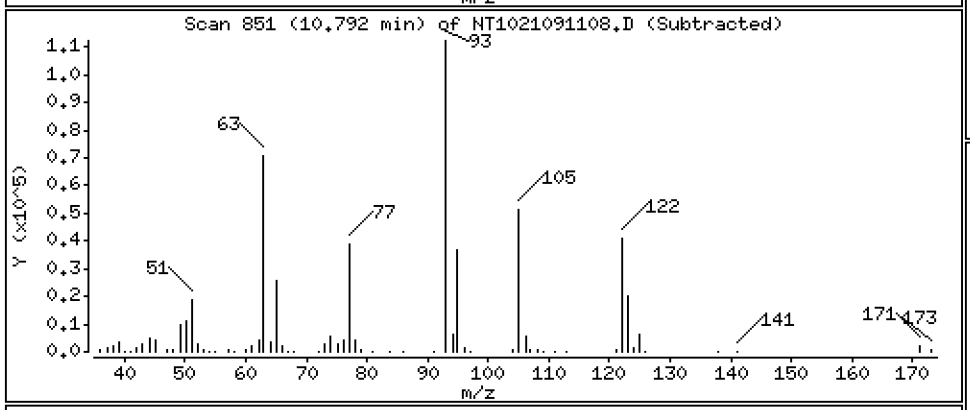
Column phase: ZB-5msi

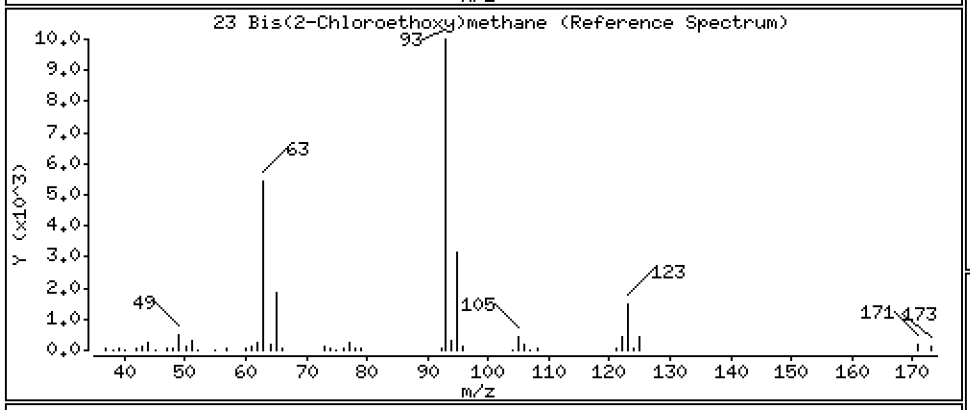
Column diameter: 0.25

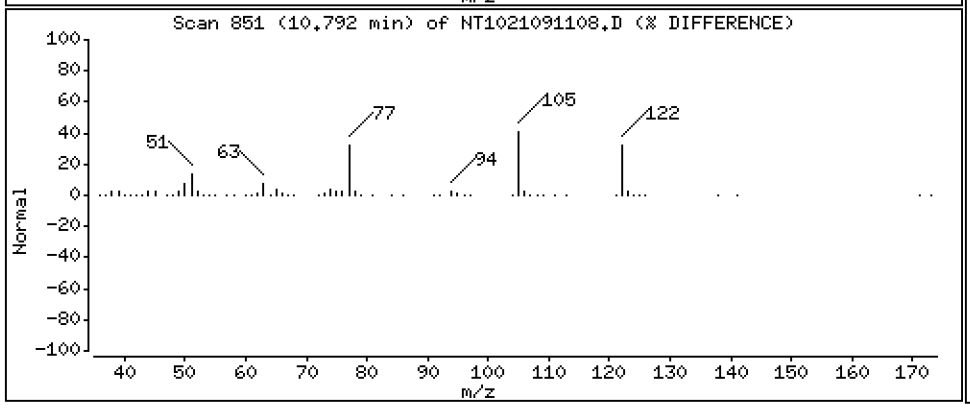
23 Bis(2-Chloroethoxy)methane

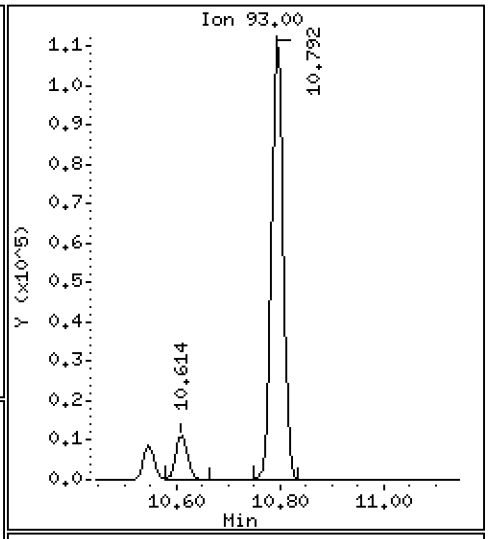
Concentration: 4.294 ug/mL

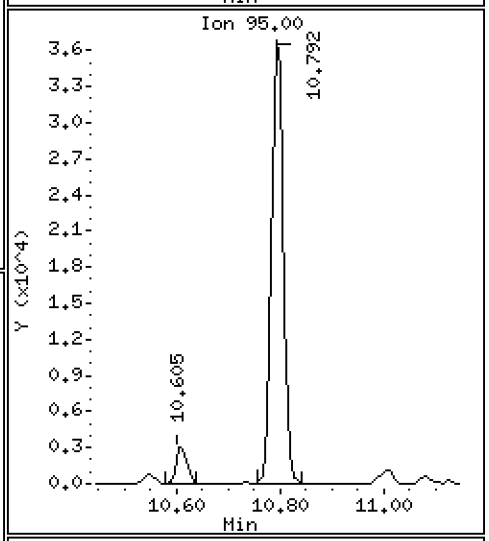


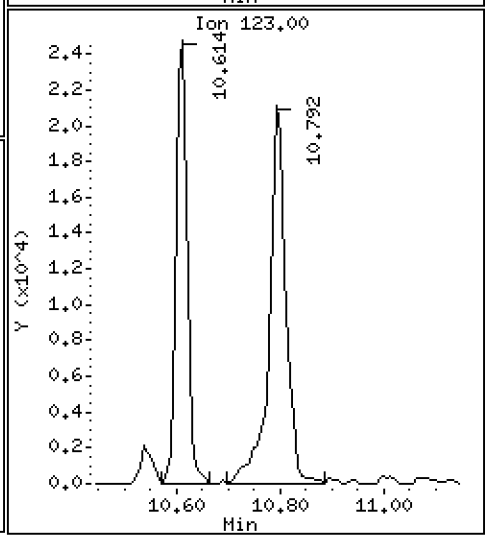












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

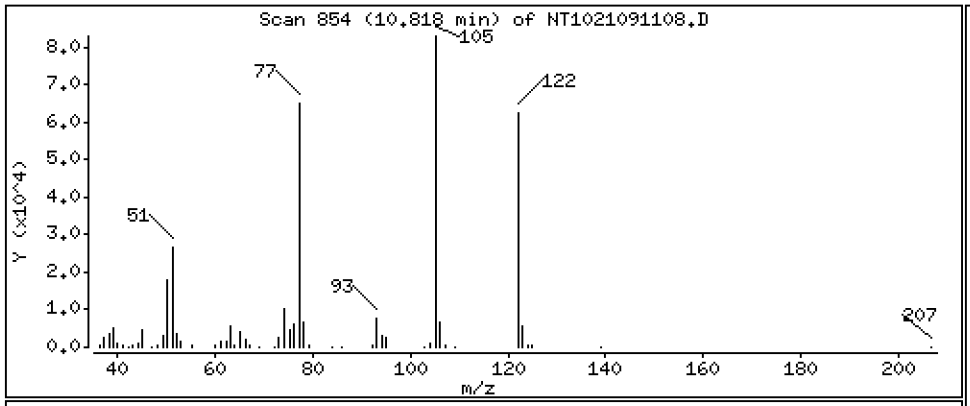
Operator: VTS

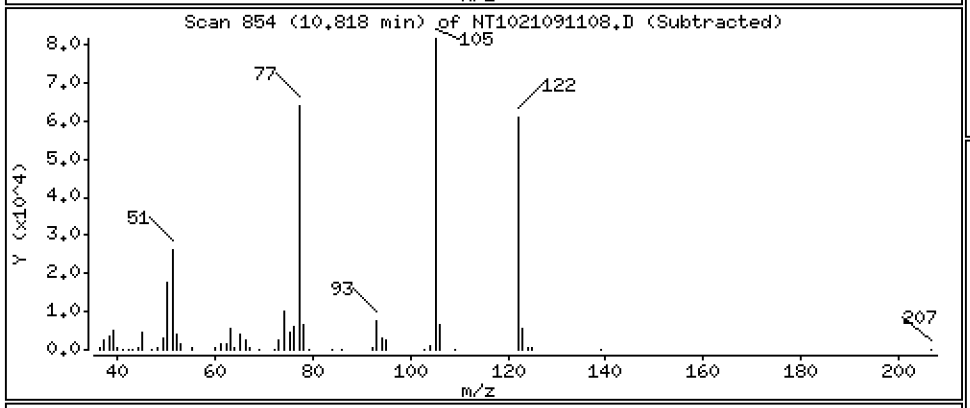
Column phase: ZB-5msi

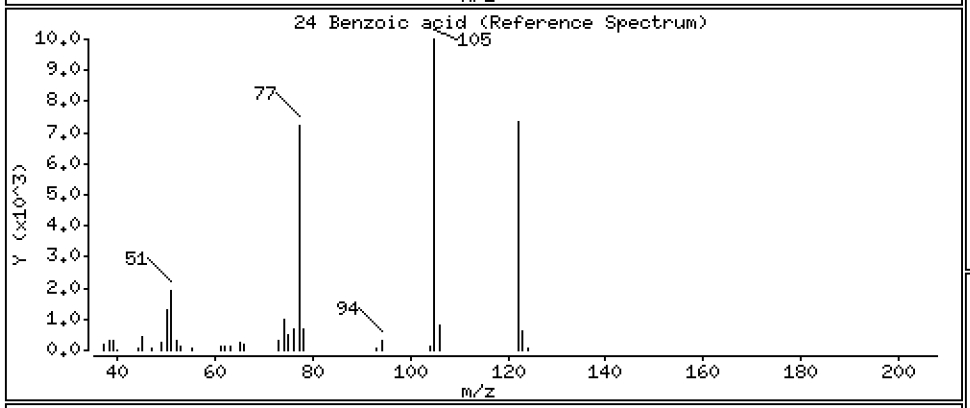
Column diameter: 0.25

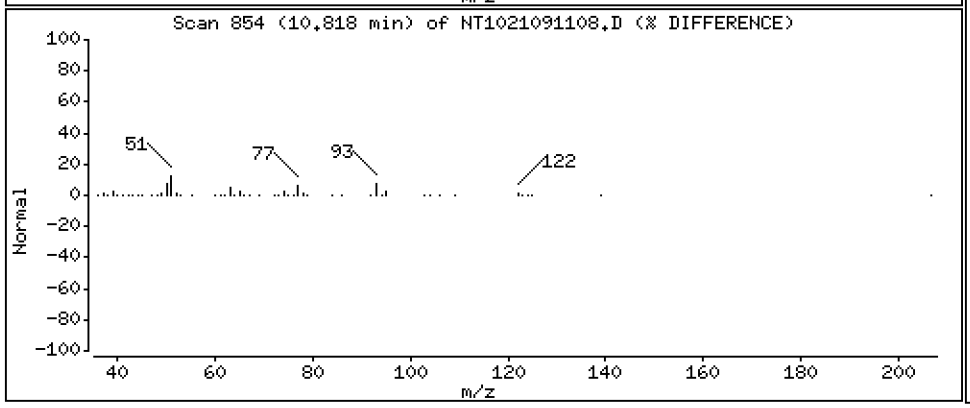
24 Benzoic acid

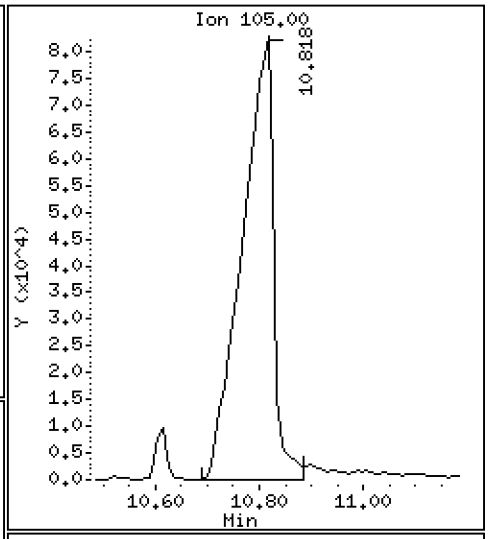
Concentration: 17.46 ug/mL

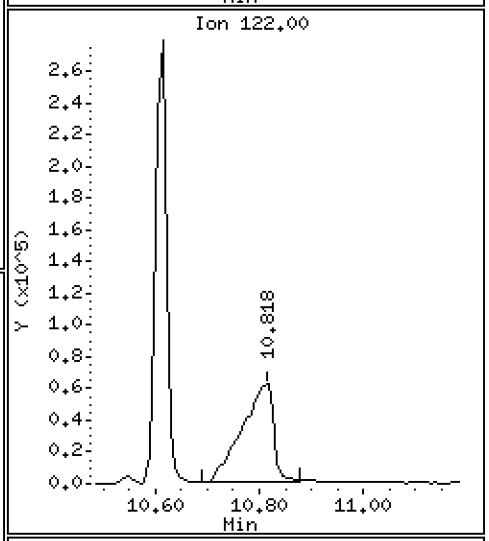


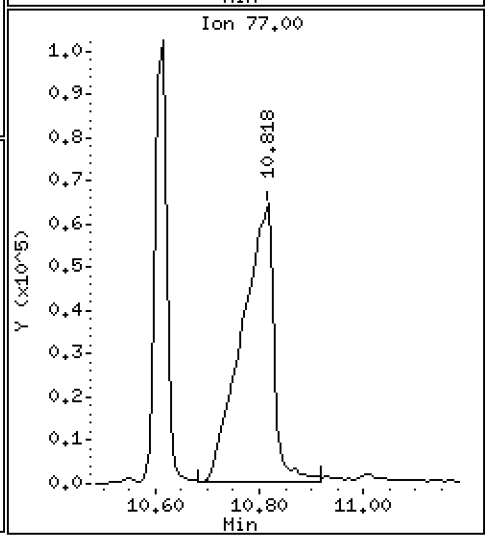












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

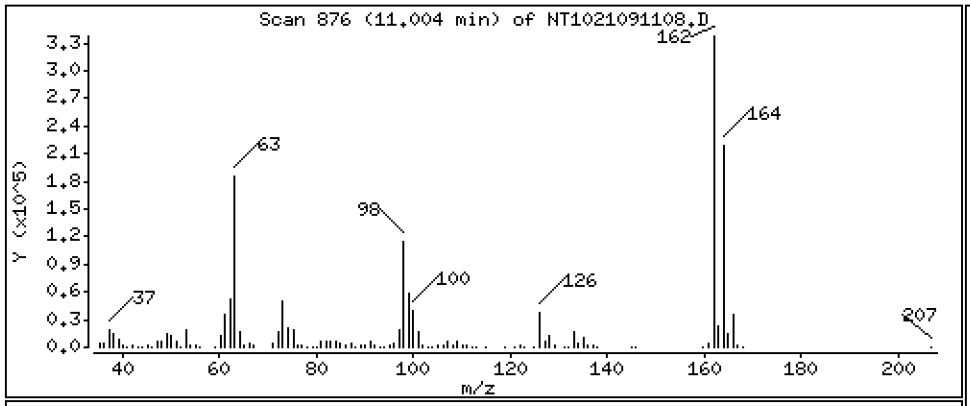
Operator: VTS

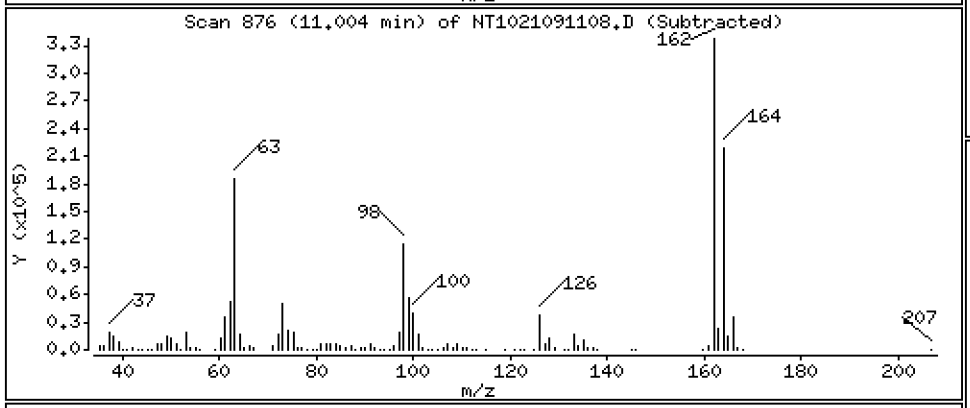
Column phase: ZB-5msi

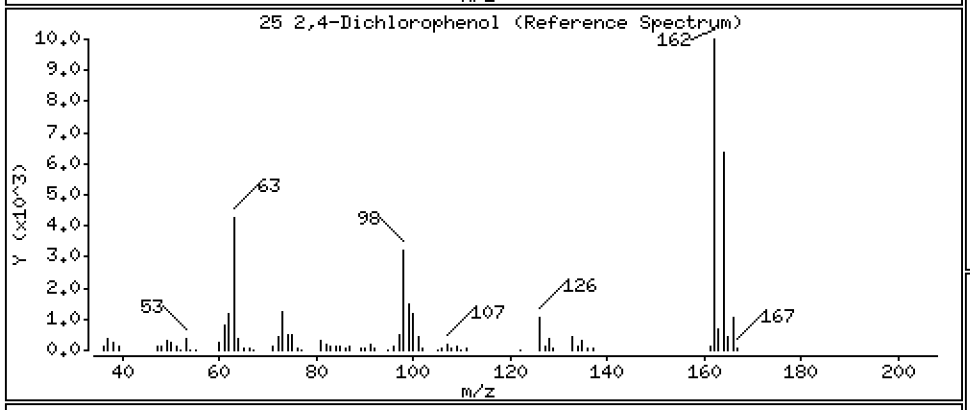
Column diameter: 0.25

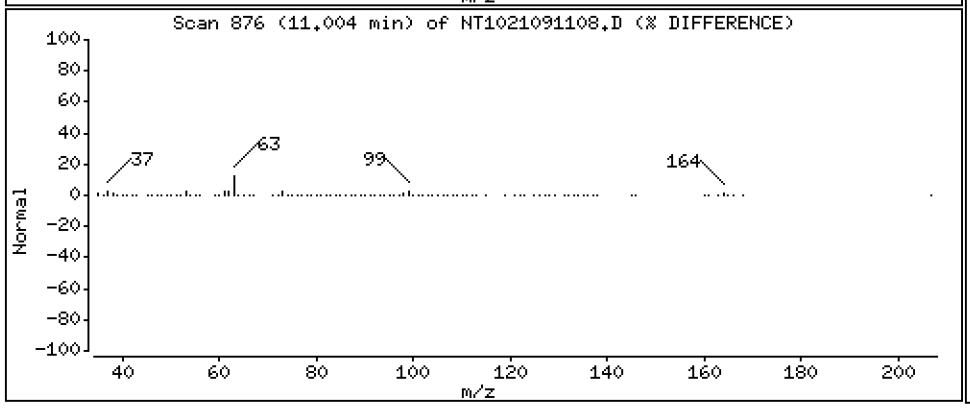
25 2,4-Dichlorophenol

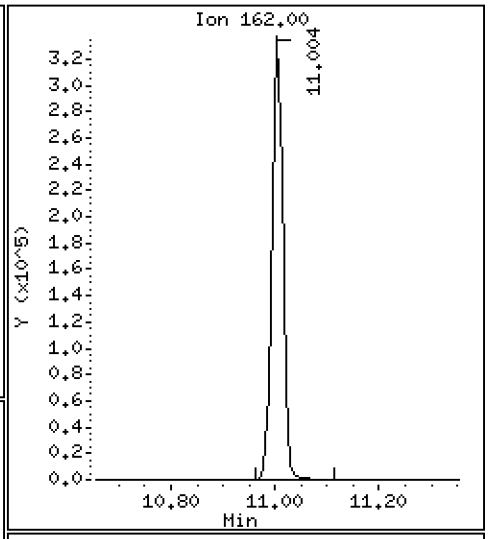
Concentration: 13.68 ug/mL

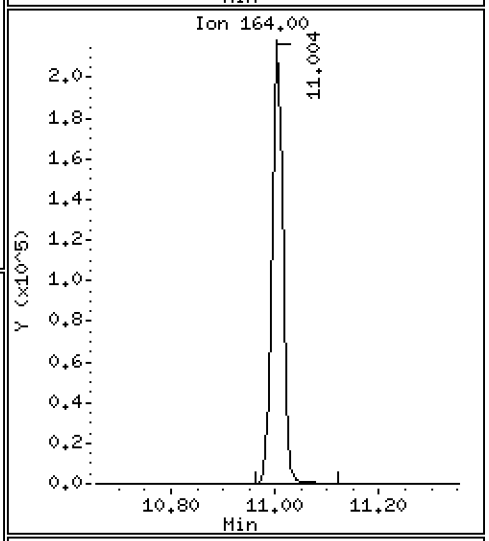


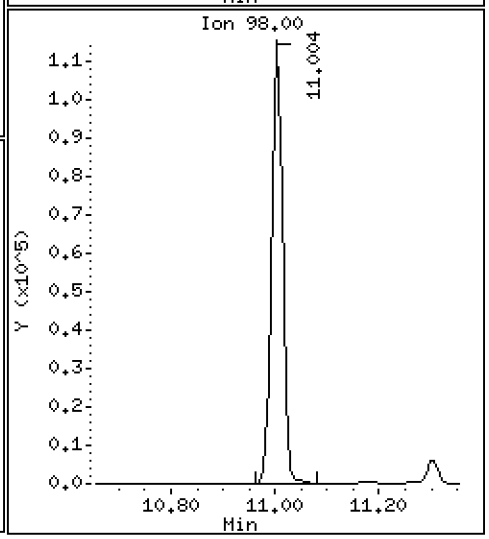












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

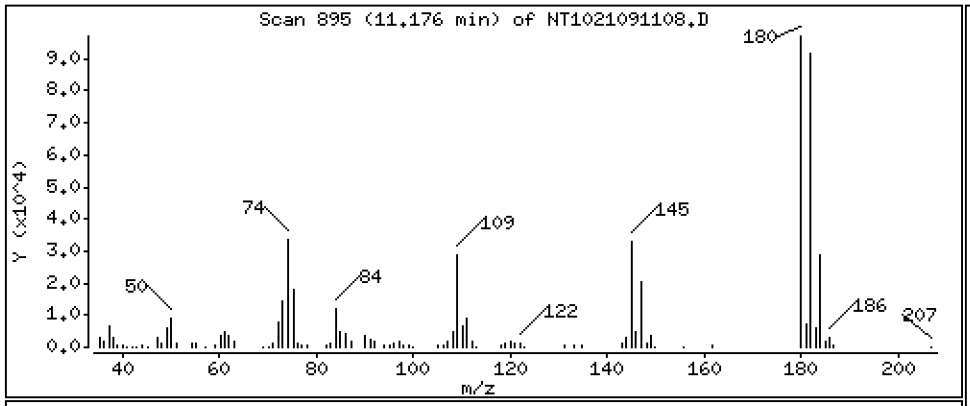
Operator: VTS

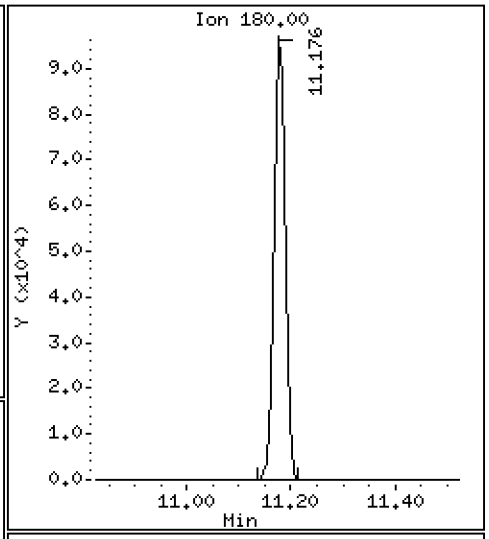
Column phase: ZB-5msi

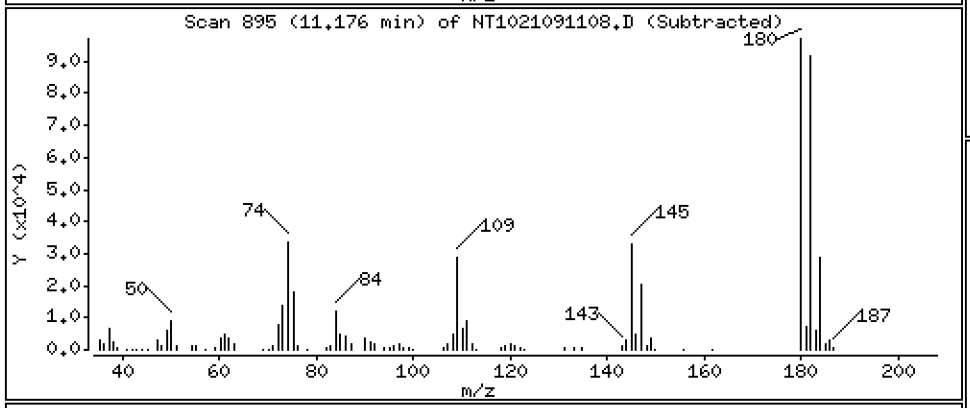
Column diameter: 0.25

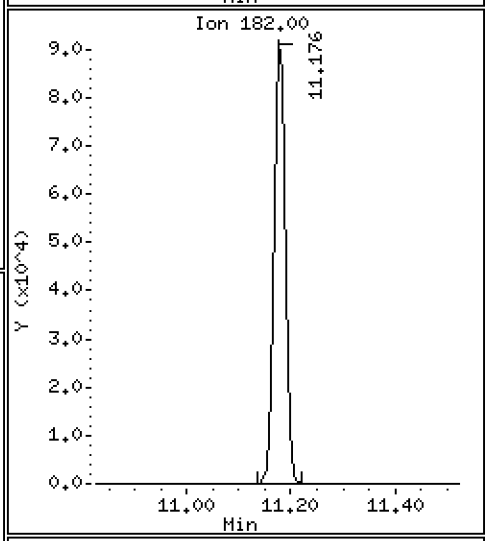
26 1,2,4-Trichlorobenzene

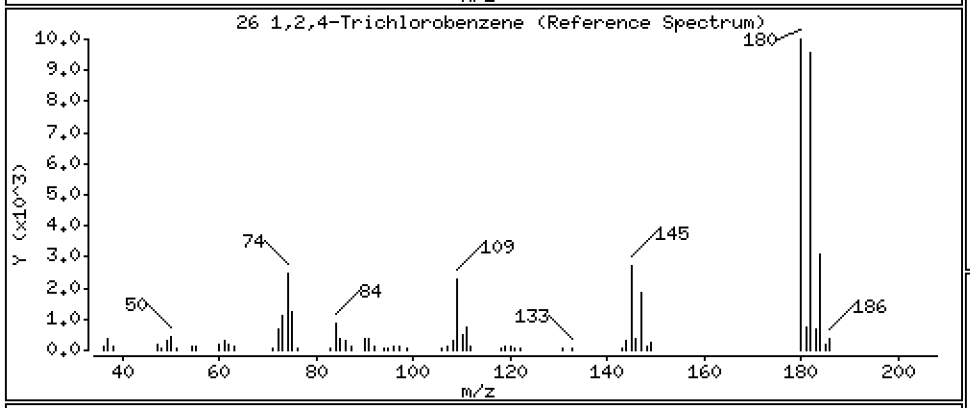
Concentration: 3.959 ug/mL

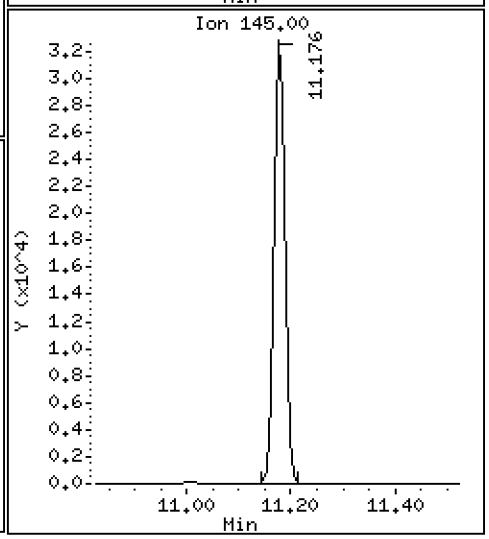


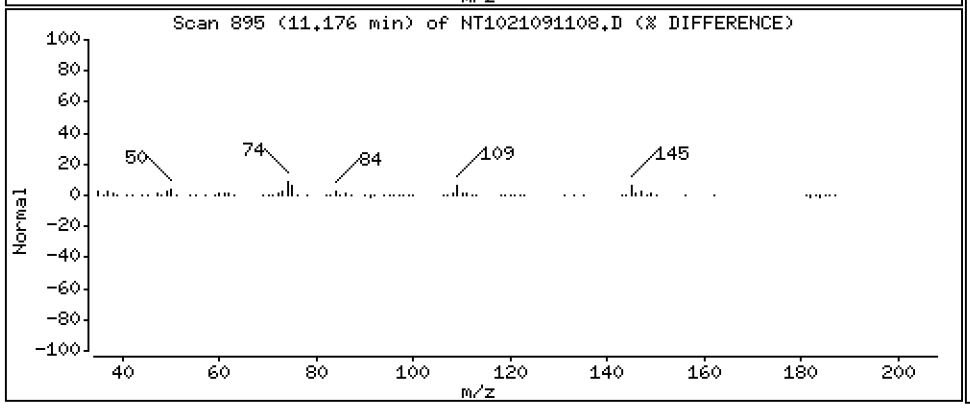












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

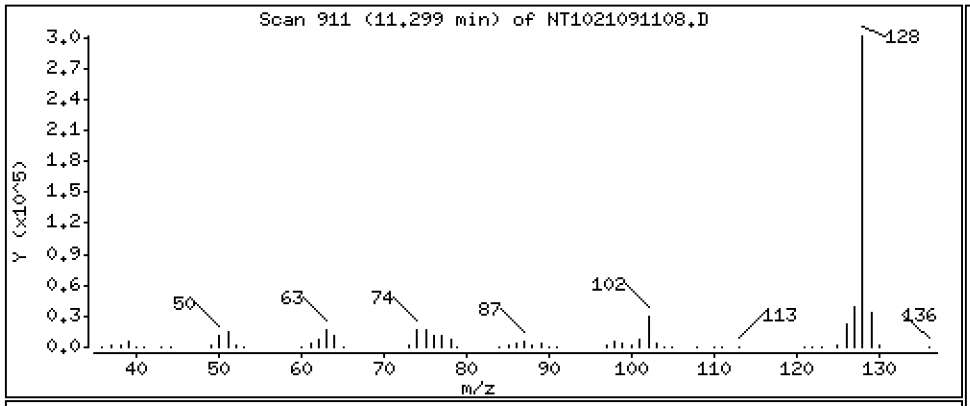
Operator: VTS

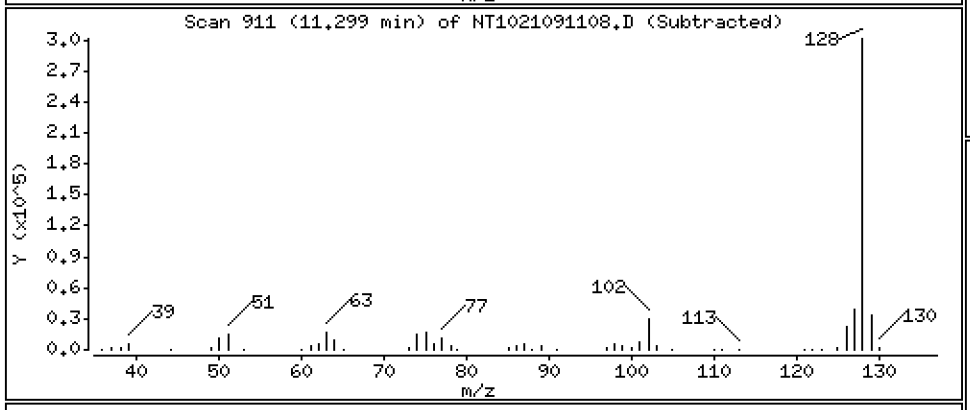
Column phase: ZB-5msi

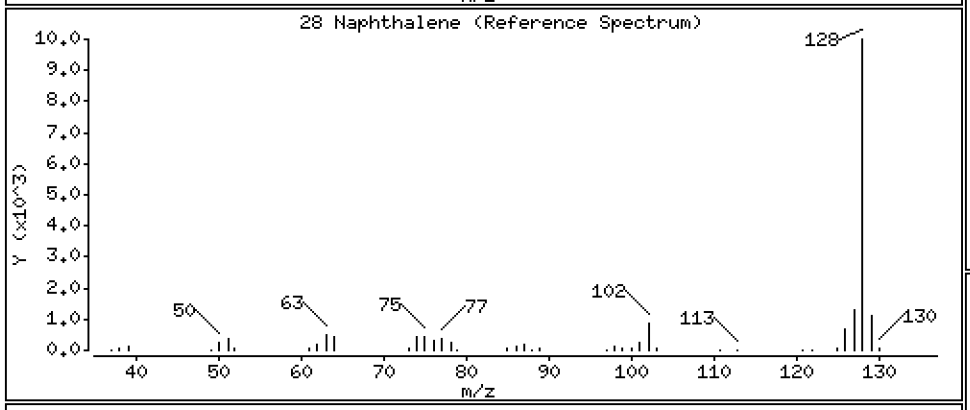
Column diameter: 0.25

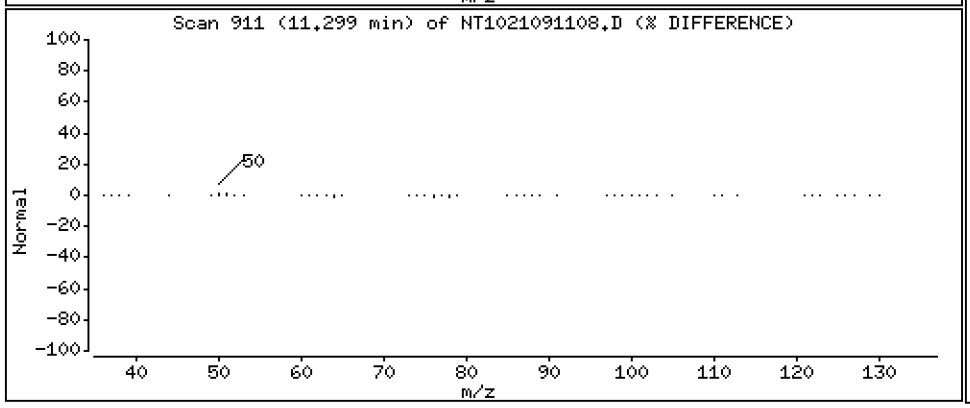
28 Naphthalene

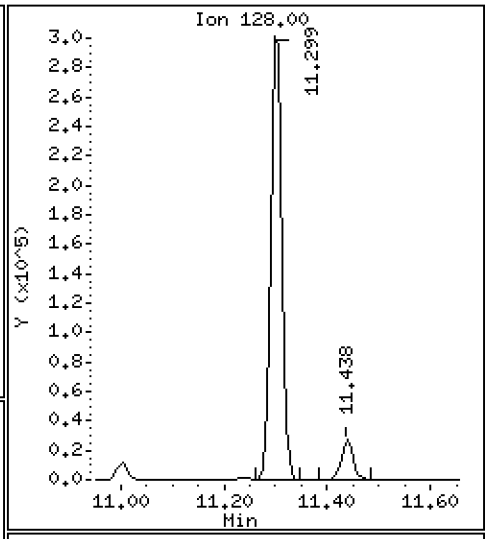
Concentration: 4.082 ug/mL

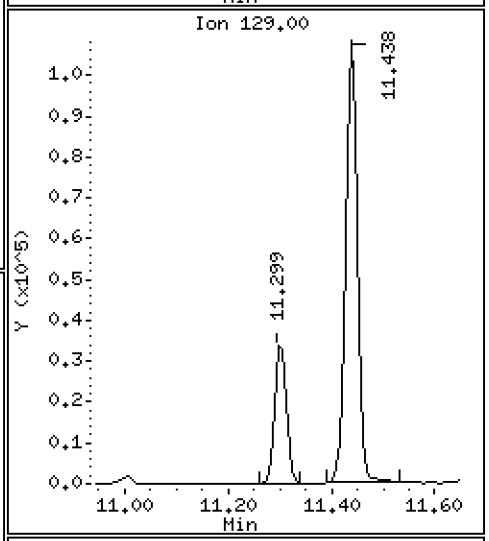


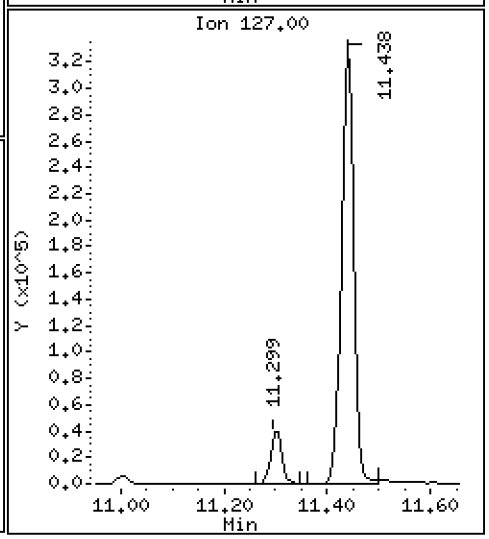












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

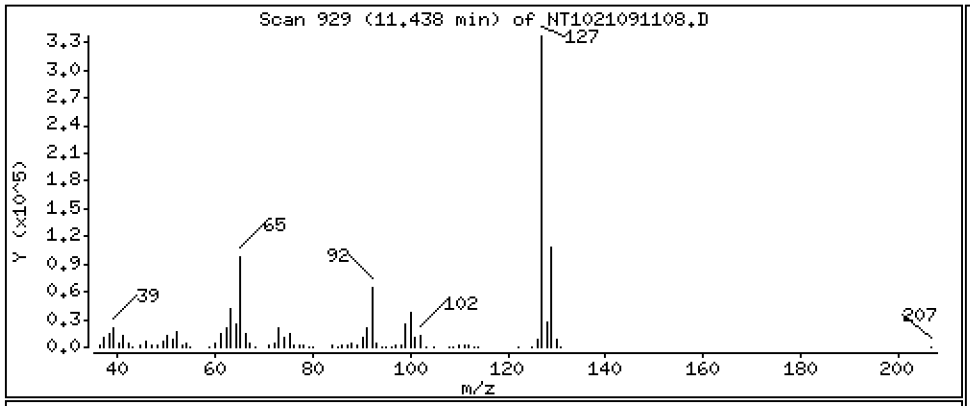
Operator: VTS

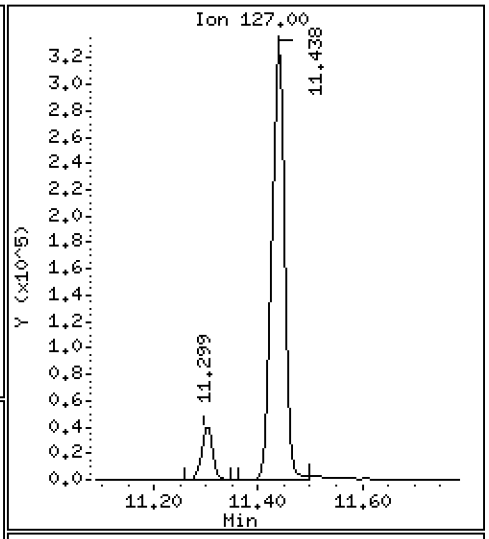
Column phase: ZB-5msi

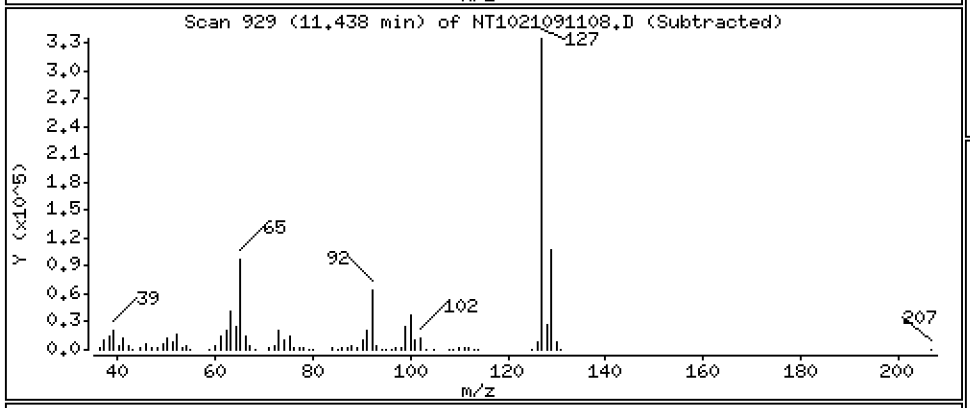
Column diameter: 0.25

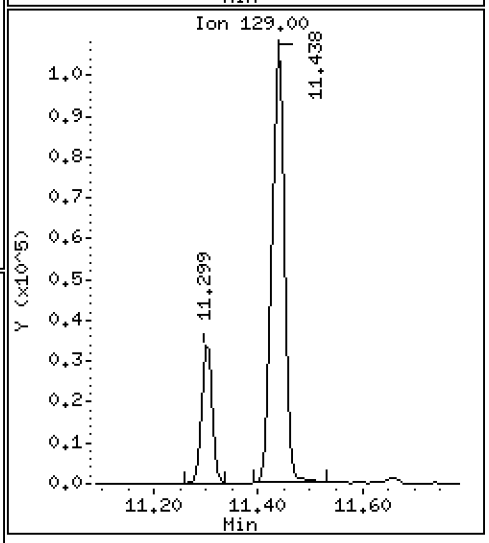
29 4-Chloroaniline

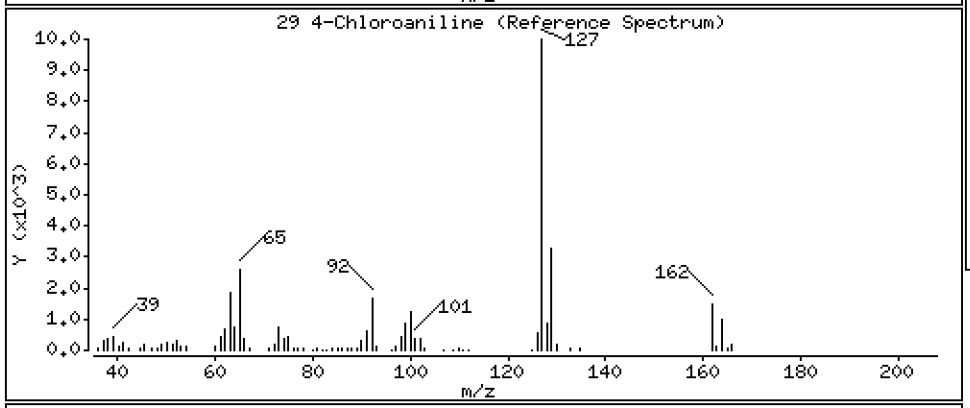
Concentration: 10.07 ug/mL

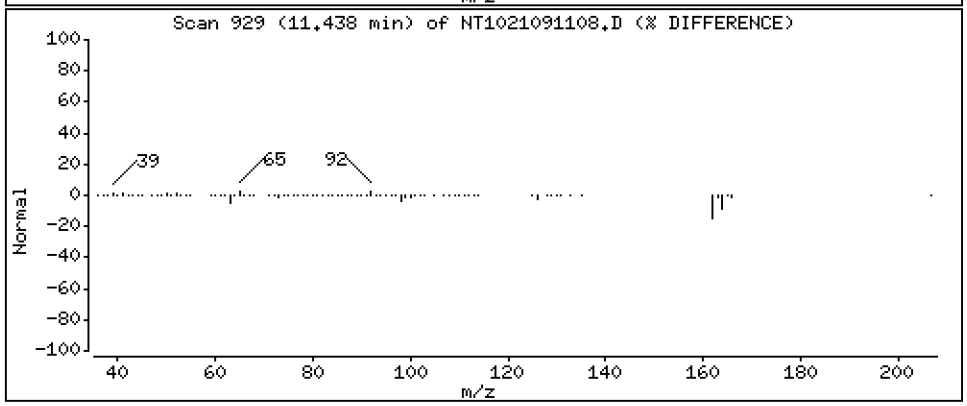












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

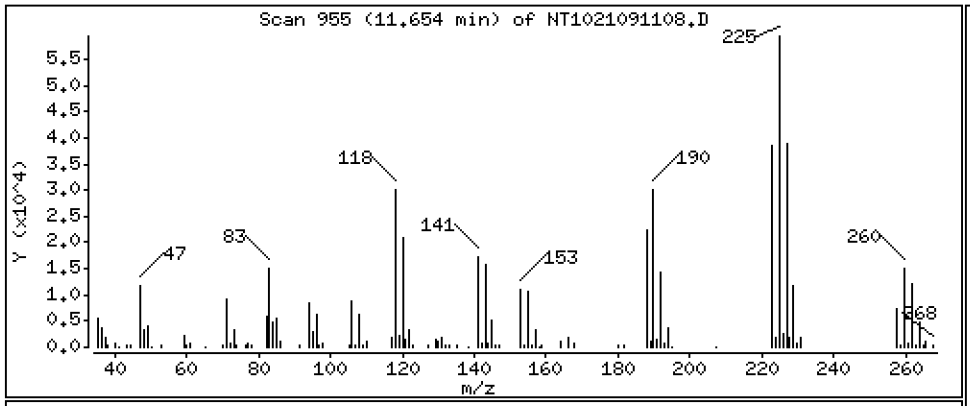
Operator: VTS

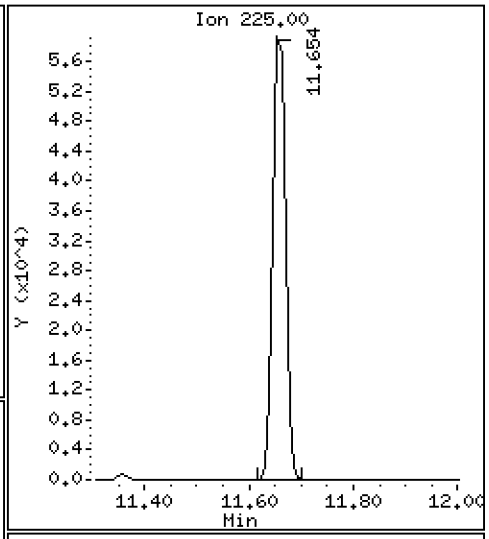
Column phase: ZB-5msi

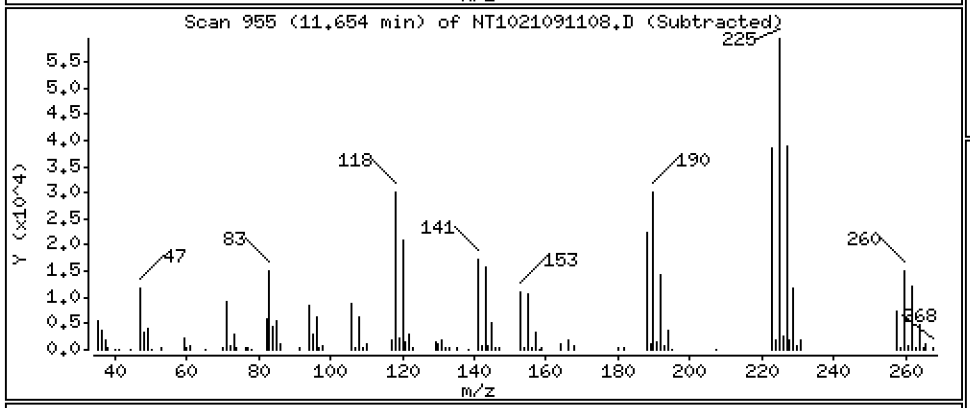
Column diameter: 0.25

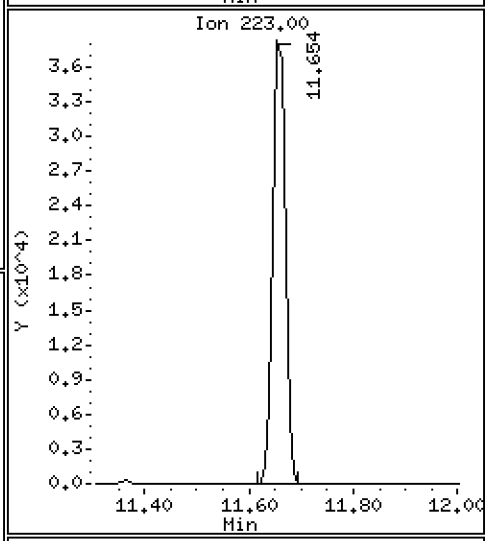
30 Hexachlorobutadiene

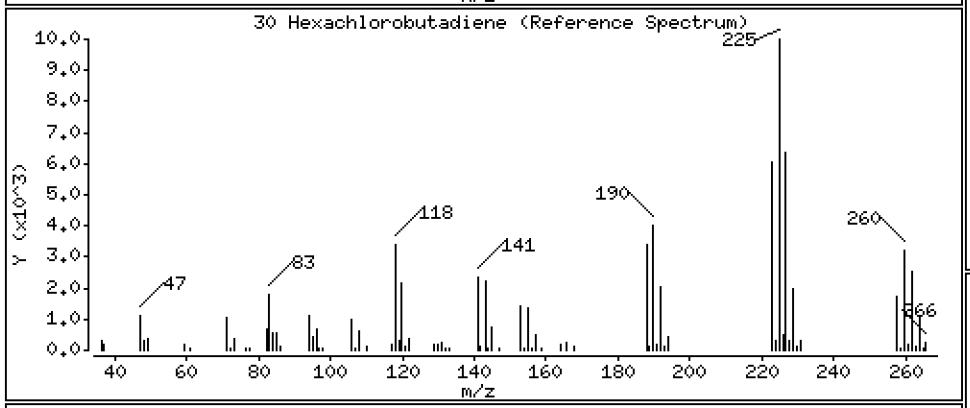
Concentration: 4.538 ug/mL

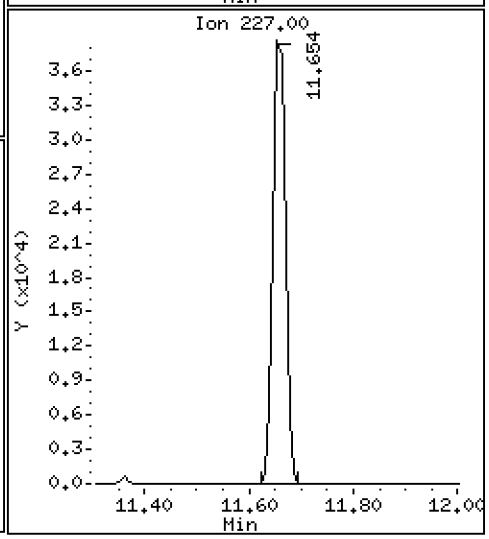


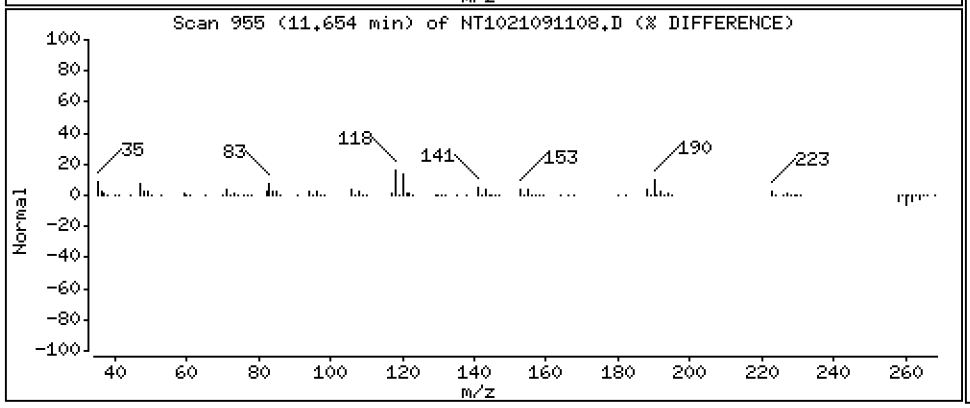












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

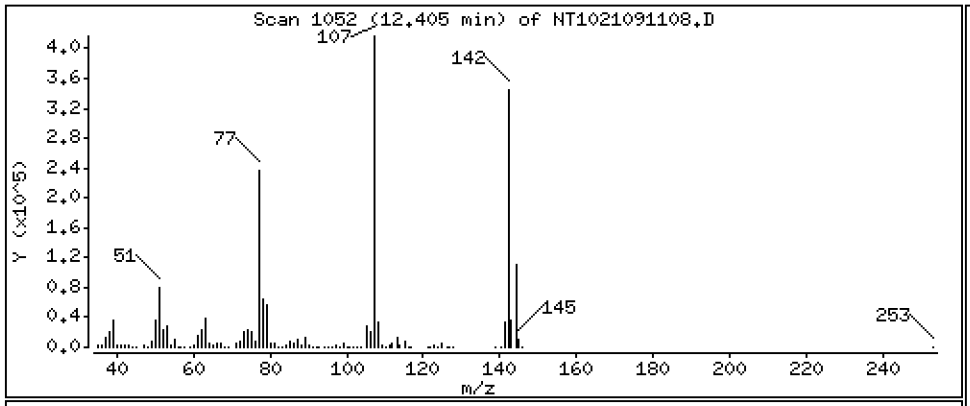
Operator: VTS

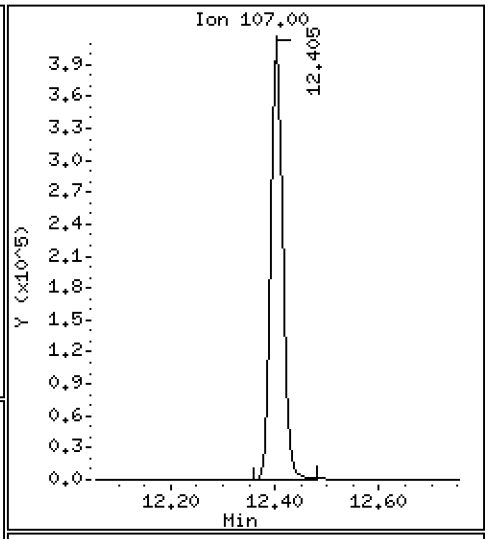
Column phase: ZB-5msi

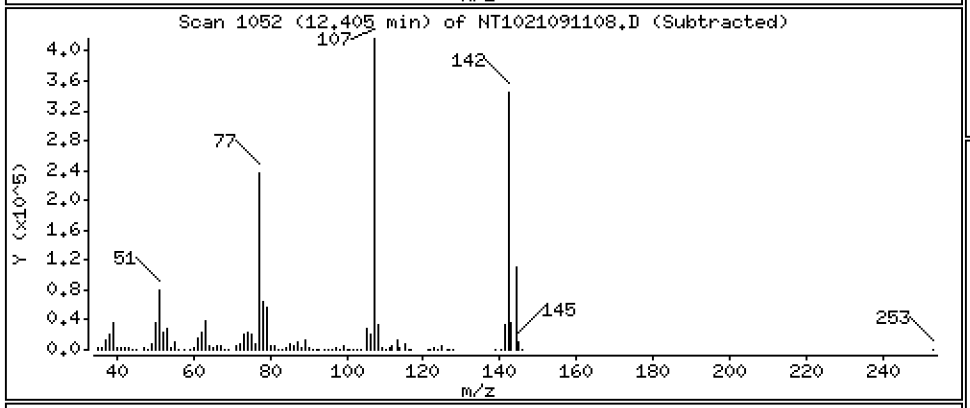
Column diameter: 0.25

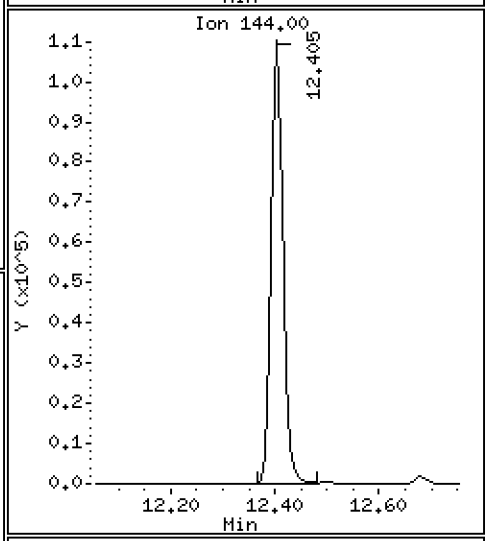
31 4-Chloro-3-methylphenol

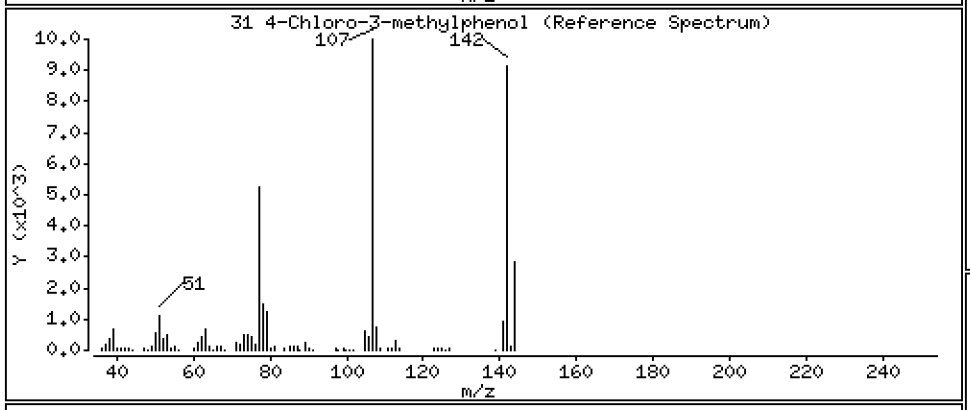
Concentration: 15.51 ug/mL

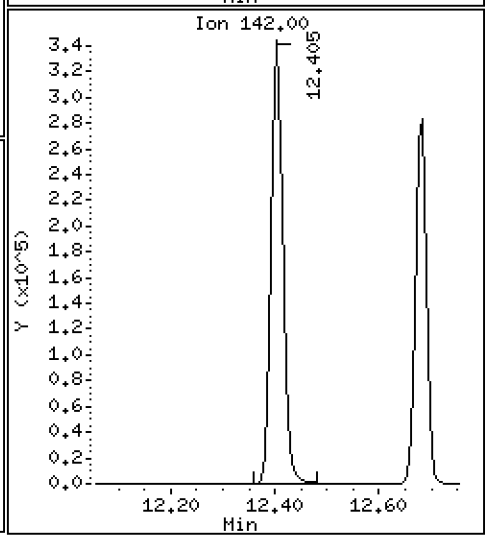


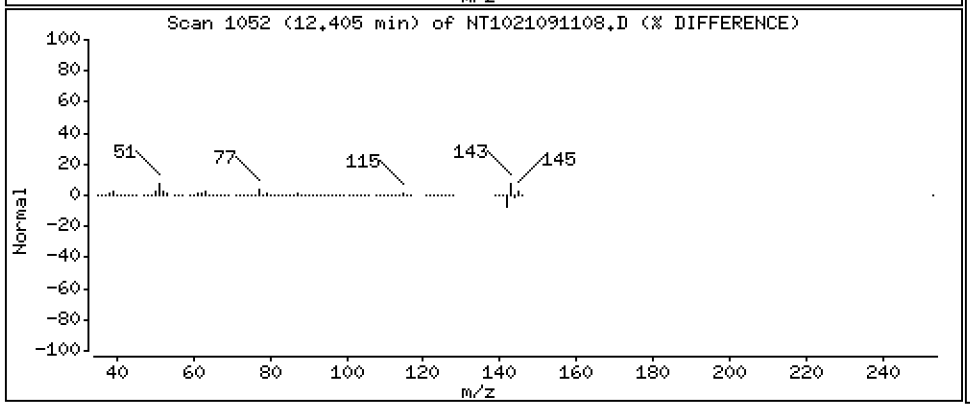












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

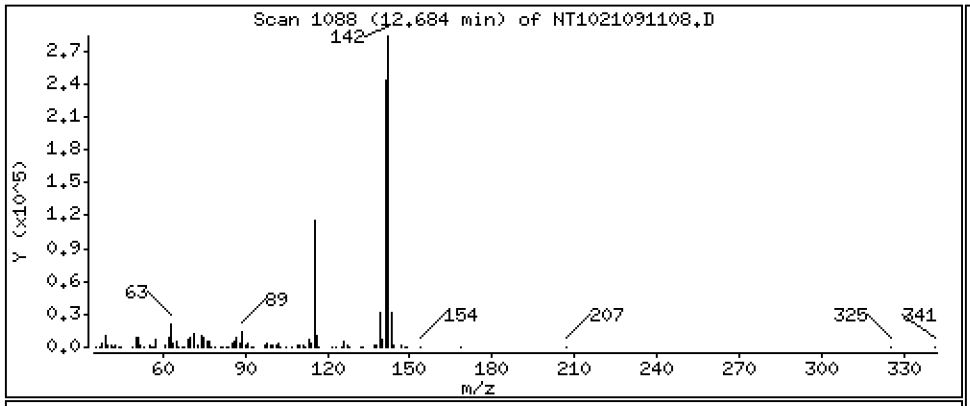
Operator: VTS

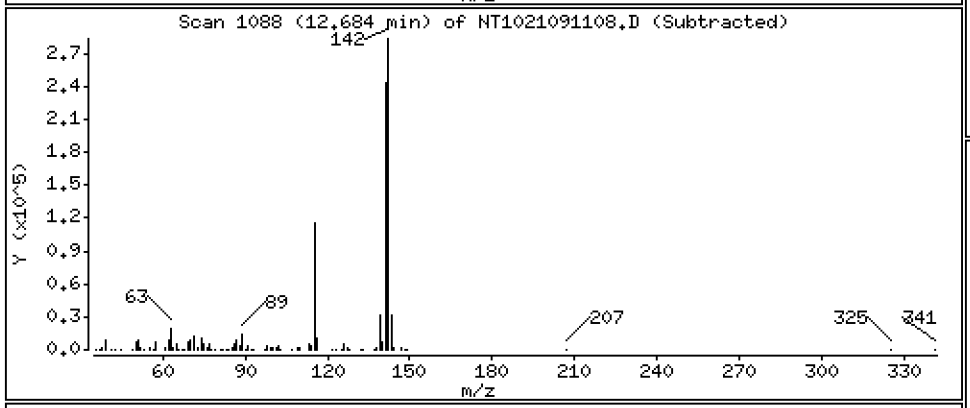
Column phase: ZB-5msi

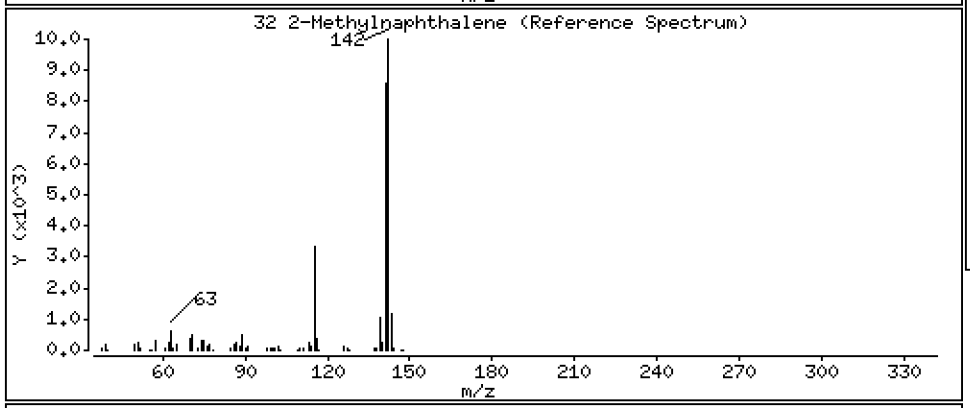
Column diameter: 0.25

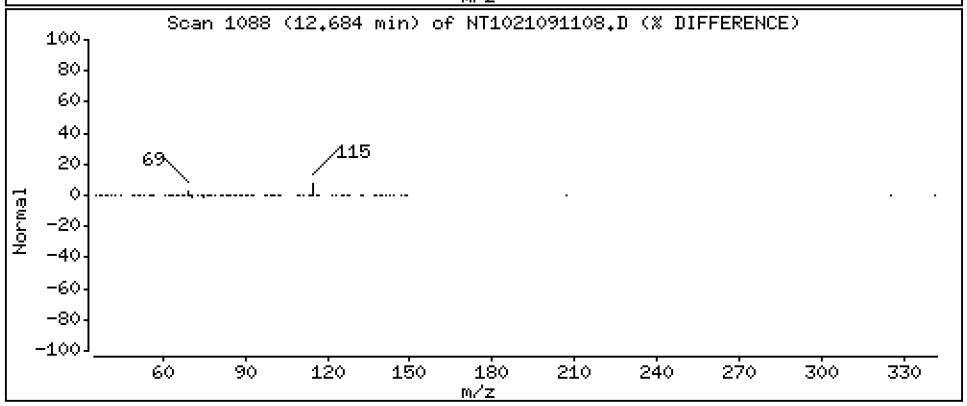
32 2-Methylnaphthalene

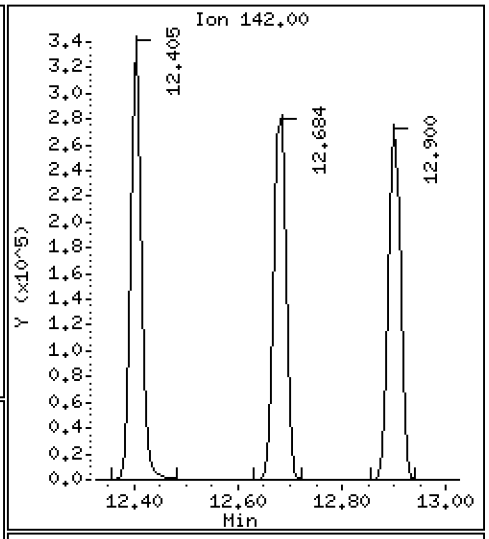
Concentration: 4.057 ug/mL

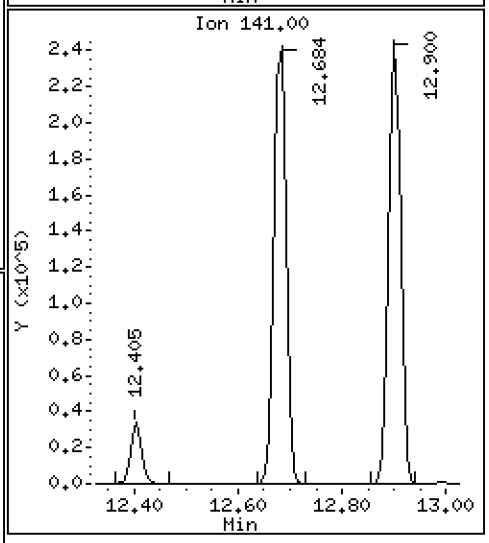












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

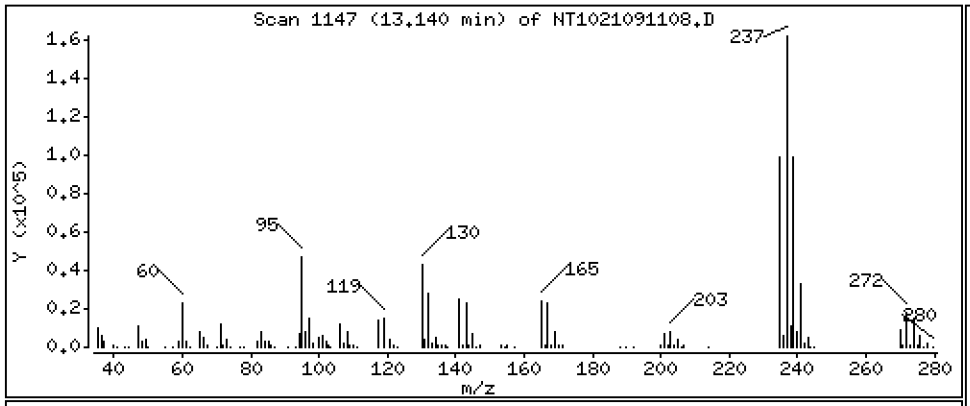
Operator: VTS

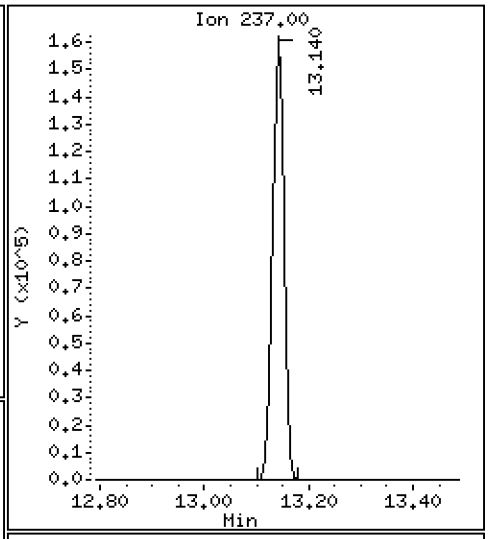
Column phase: ZB-5msi

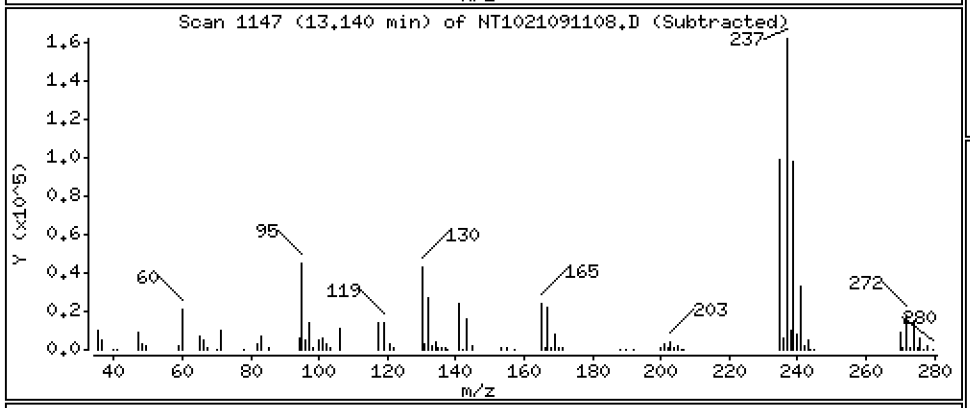
Column diameter: 0.25

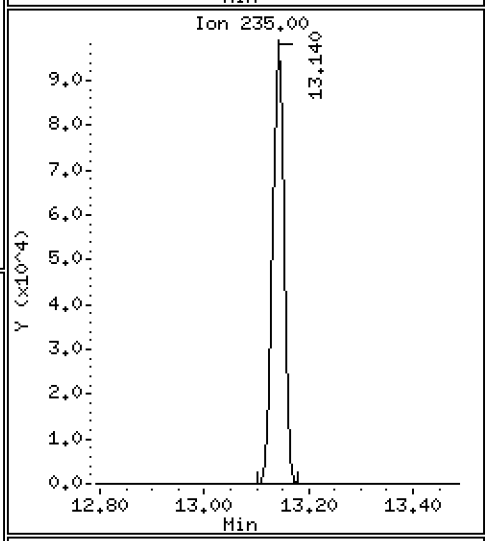
33 Hexachlorocyclopentadiene

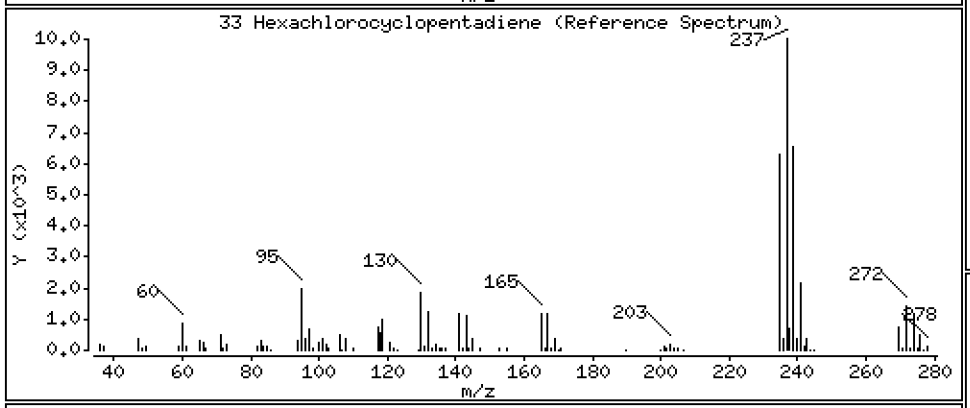
Concentration: 10.82 ug/mL

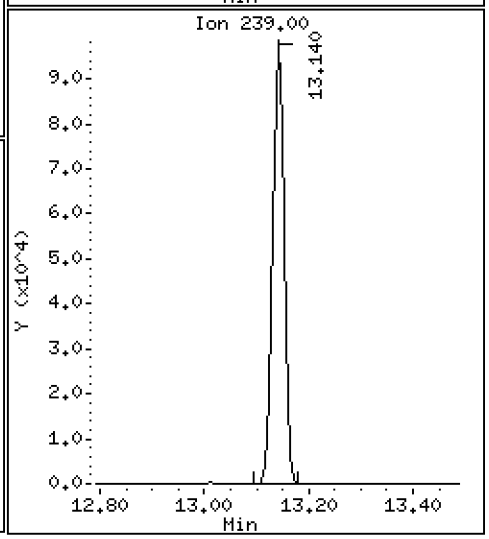


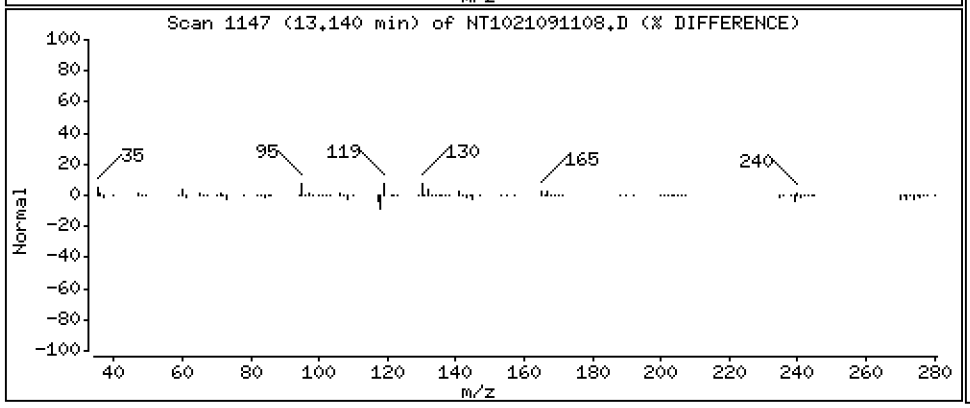












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

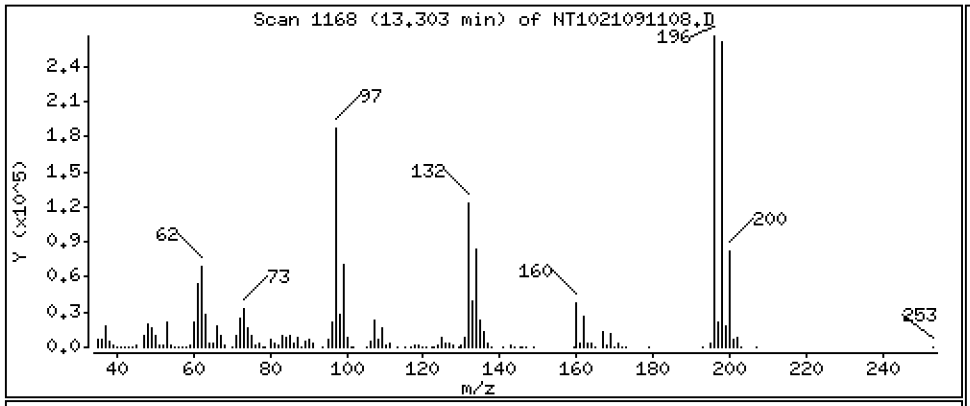
Operator: VTS

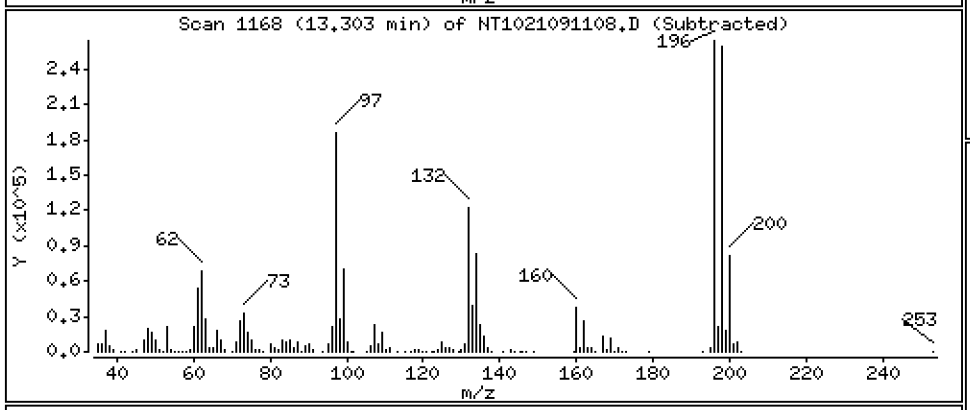
Column phase: ZB-5msi

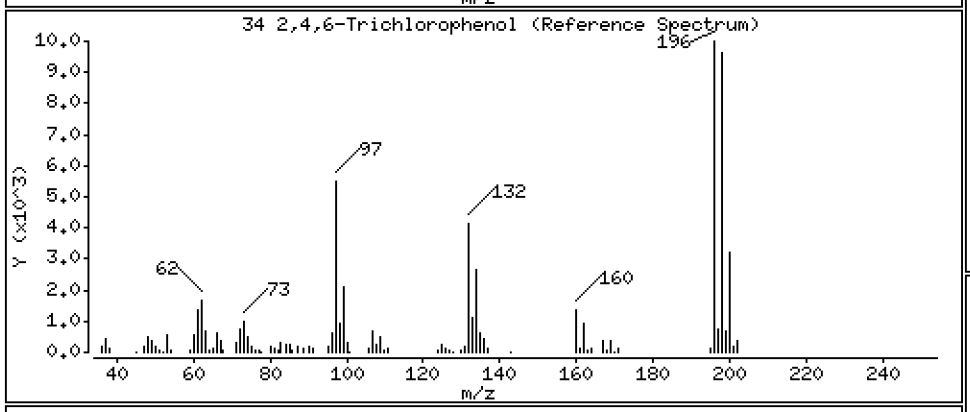
Column diameter: 0.25

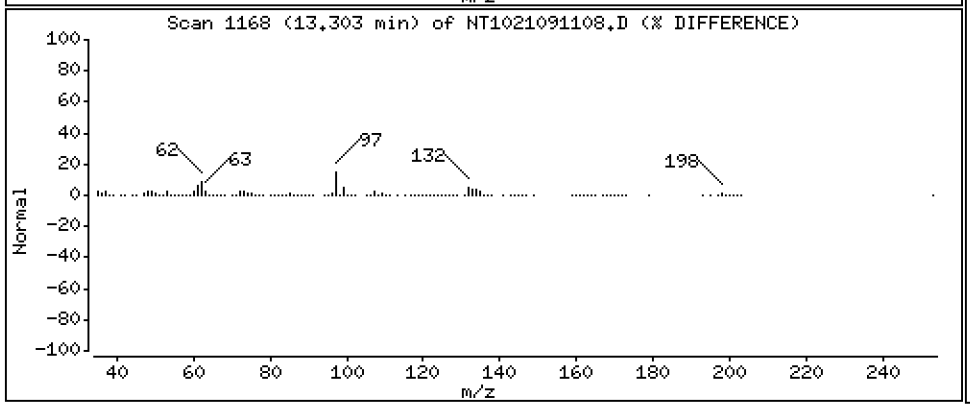
34 2,4,6-Trichlorophenol

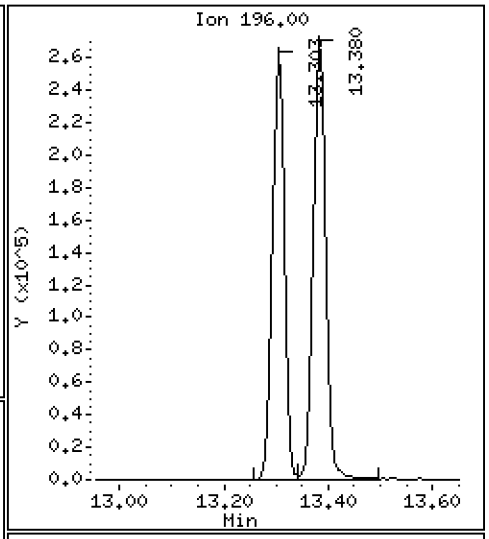
Concentration: 13.65 ug/mL

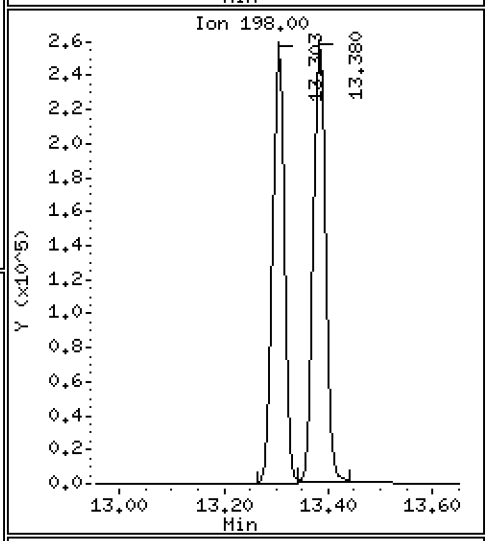


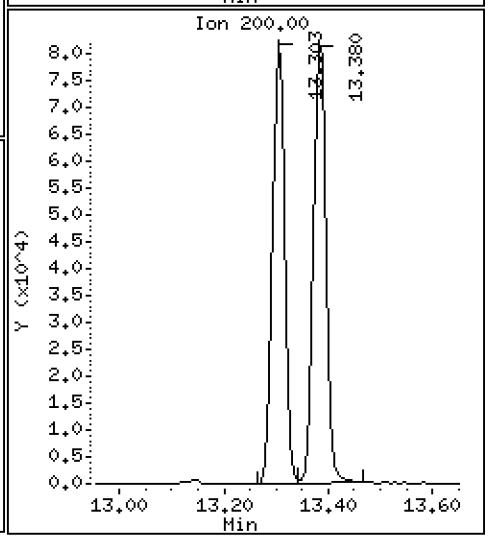












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

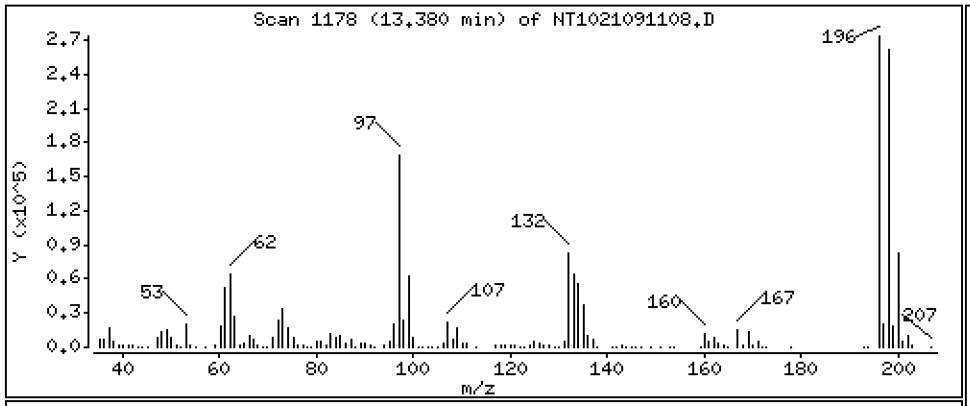
Operator: VTS

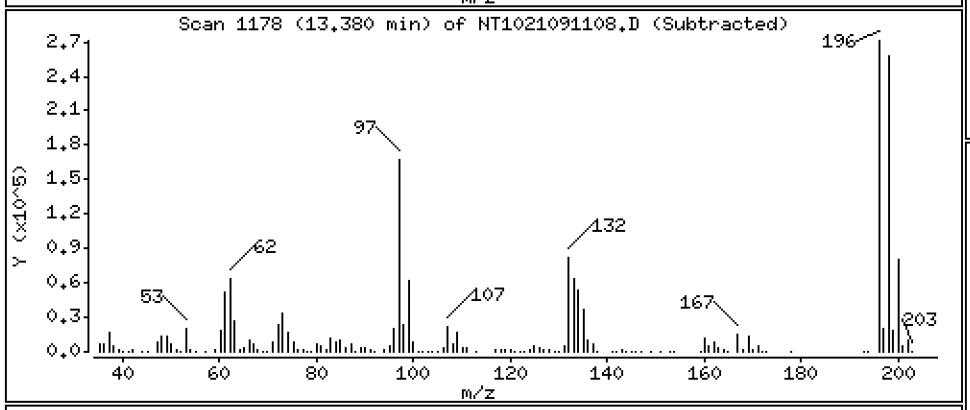
Column phase: ZB-5msi

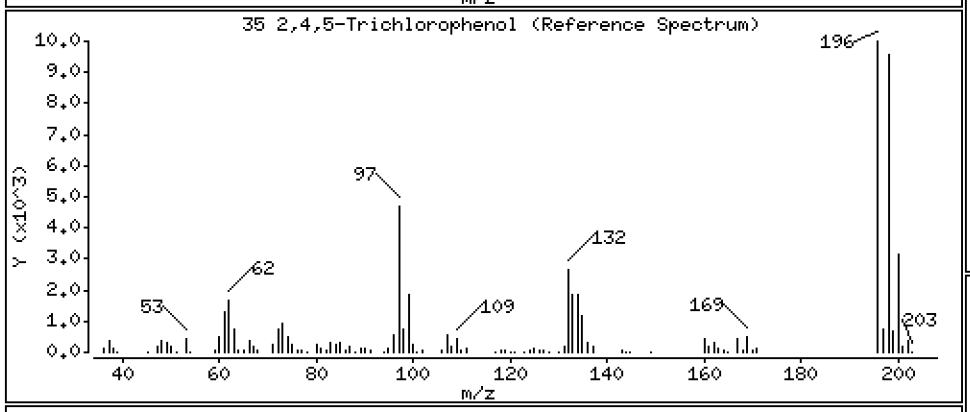
Column diameter: 0.25

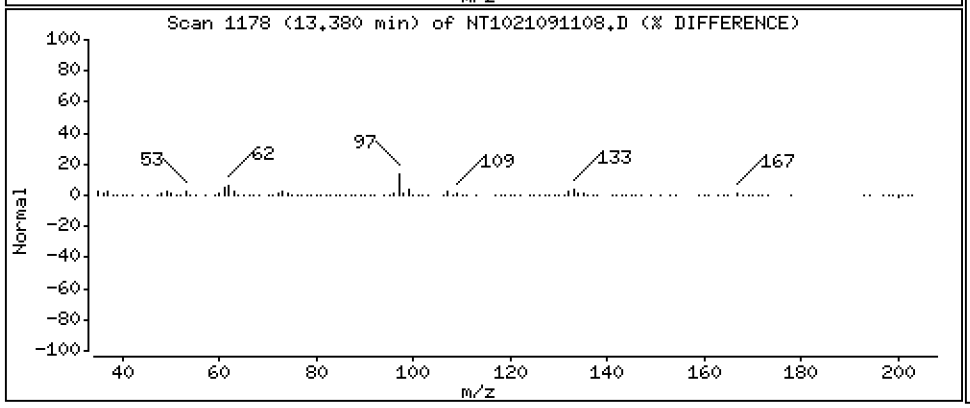
35 2,4,5-Trichlorophenol

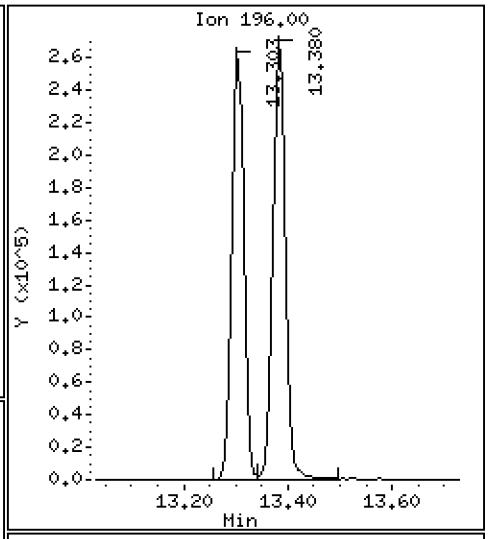
Concentration: 13.93 ug/mL

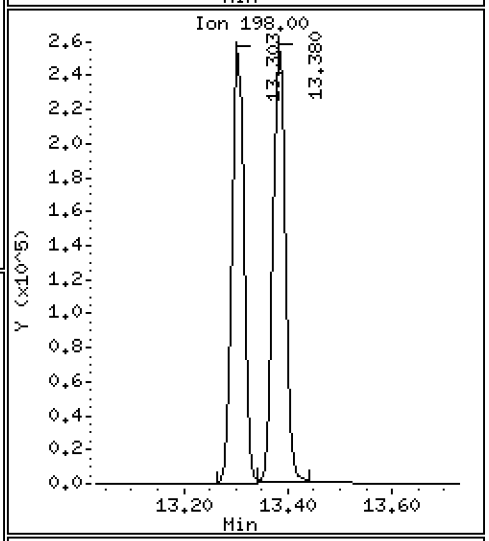


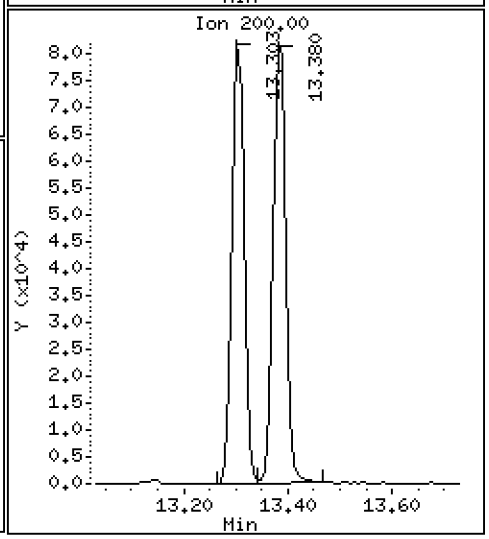












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

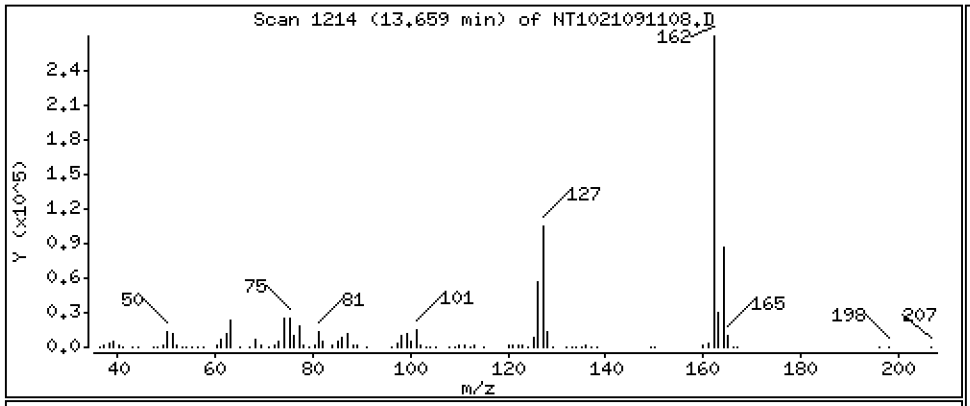
Operator: VTS

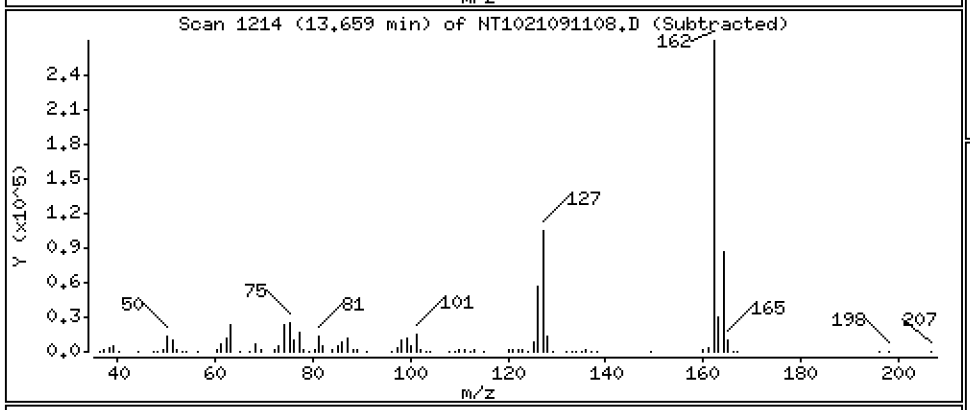
Column phase: ZB-5msi

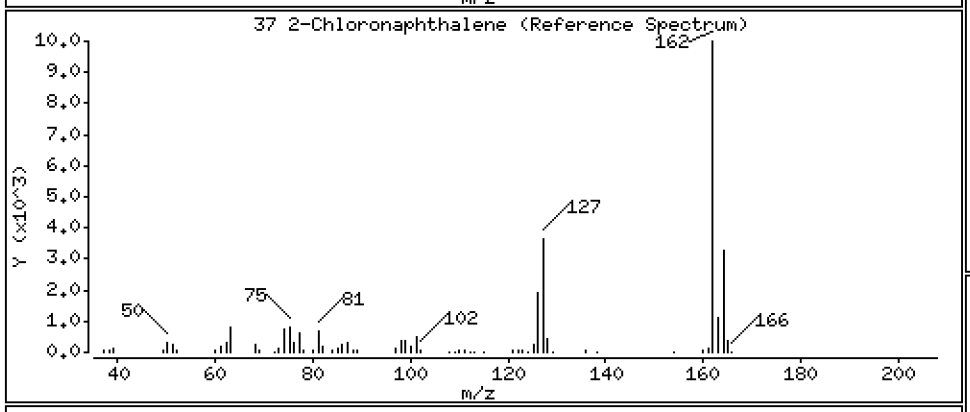
Column diameter: 0.25

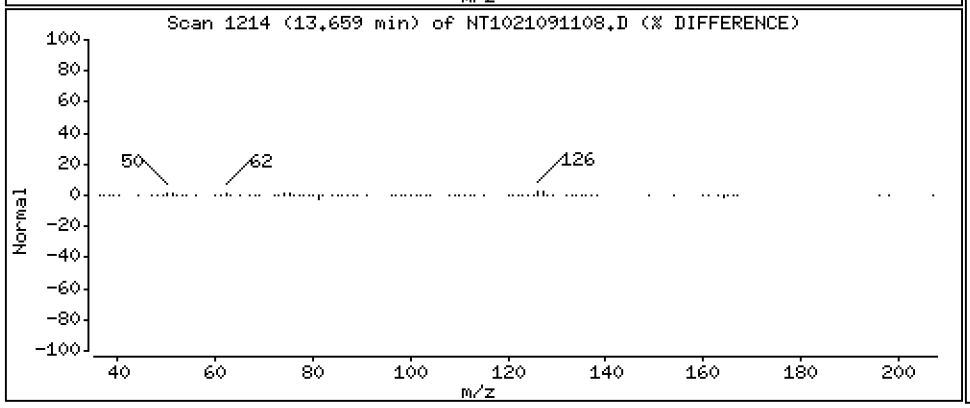
37 2-Chloronaphthalene

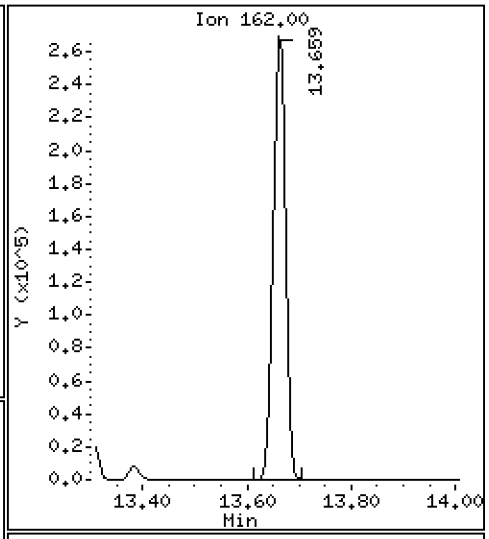
Concentration: 4.623 ug/mL

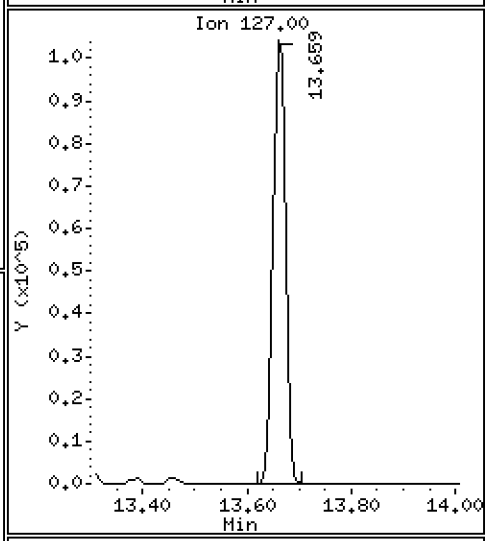


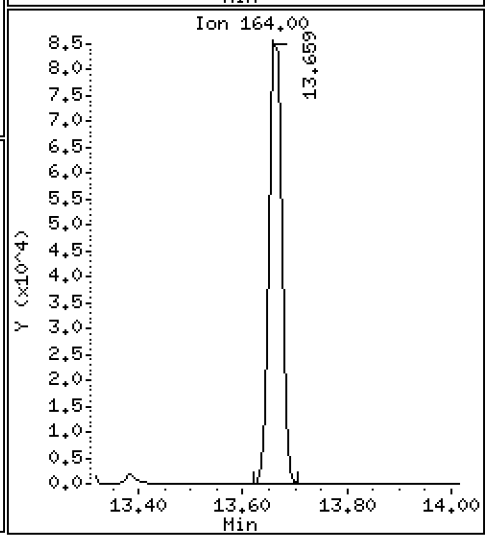












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

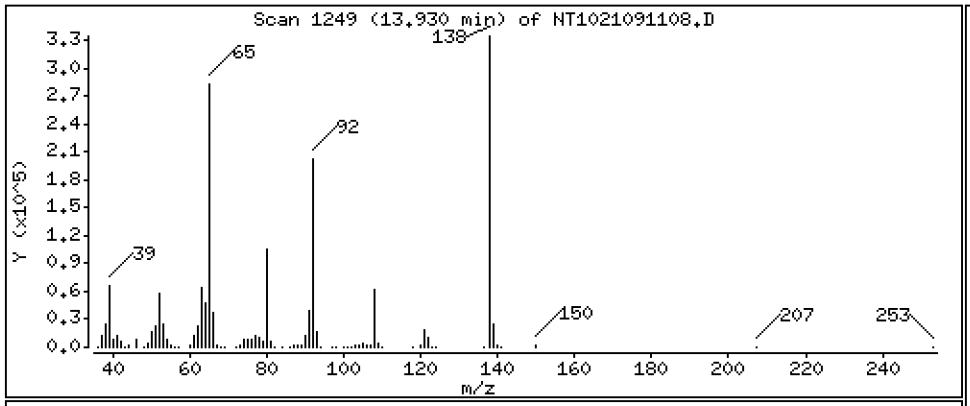
Operator: VTS

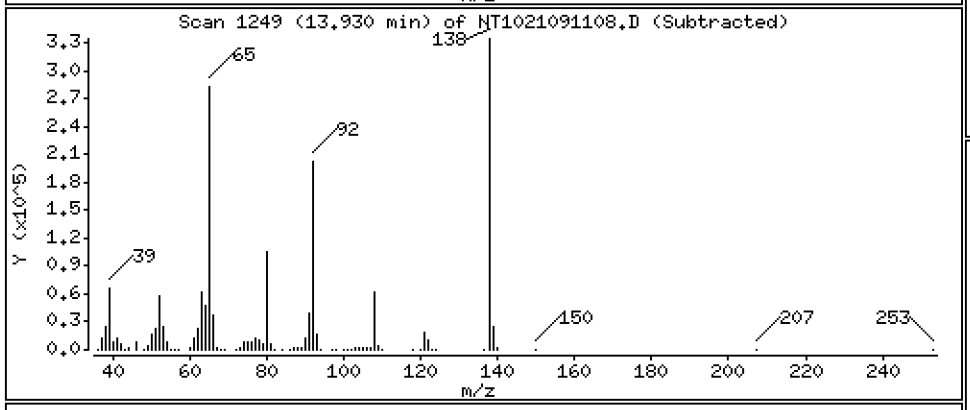
Column phase: ZB-5msi

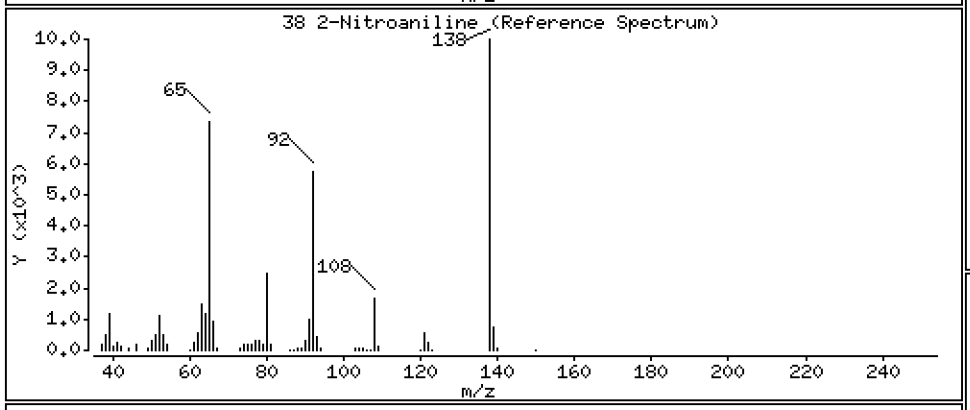
Column diameter: 0.25

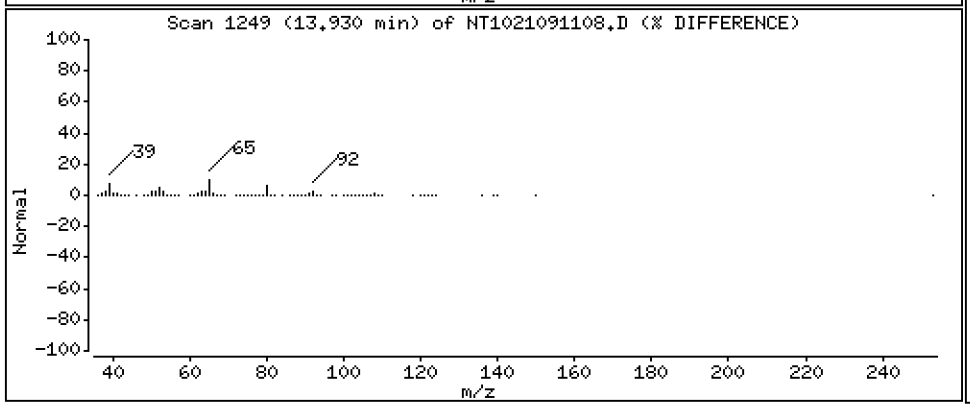
38 2-Nitroaniline

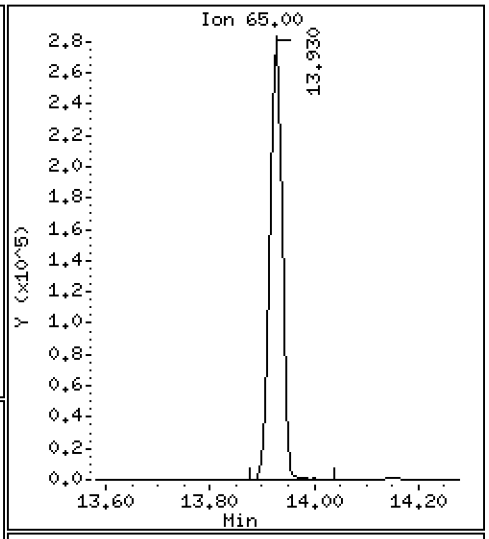
Concentration: 16.08 ug/mL

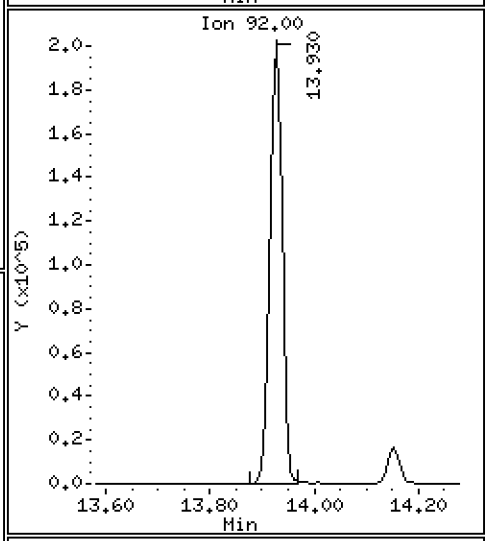


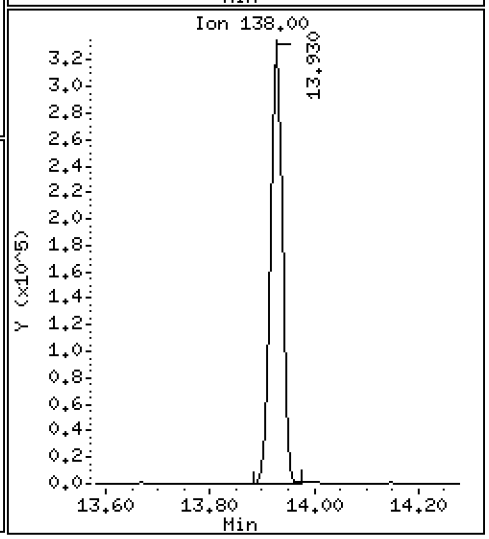












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

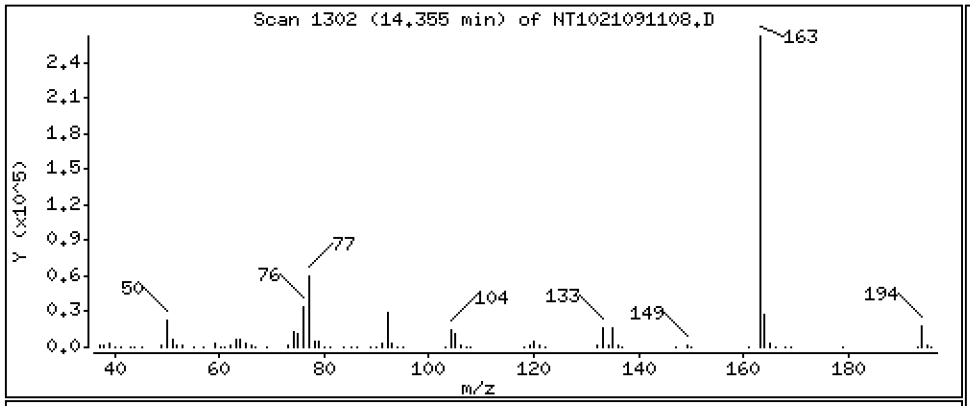
Operator: VTS

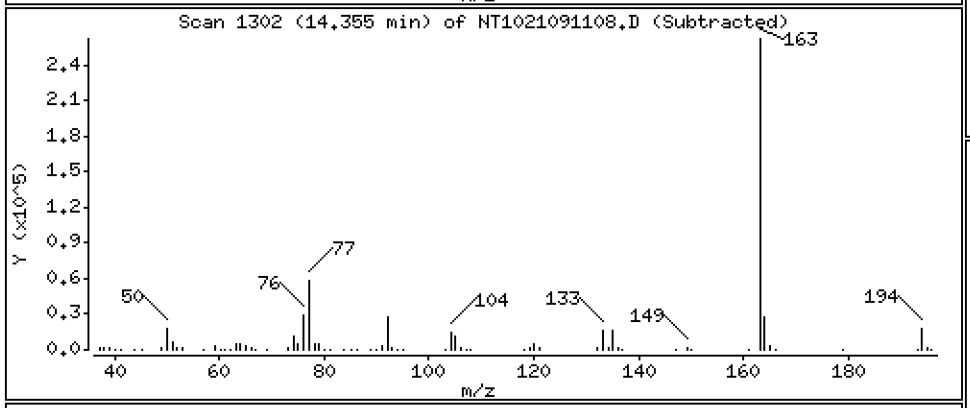
Column phase: ZB-5msi

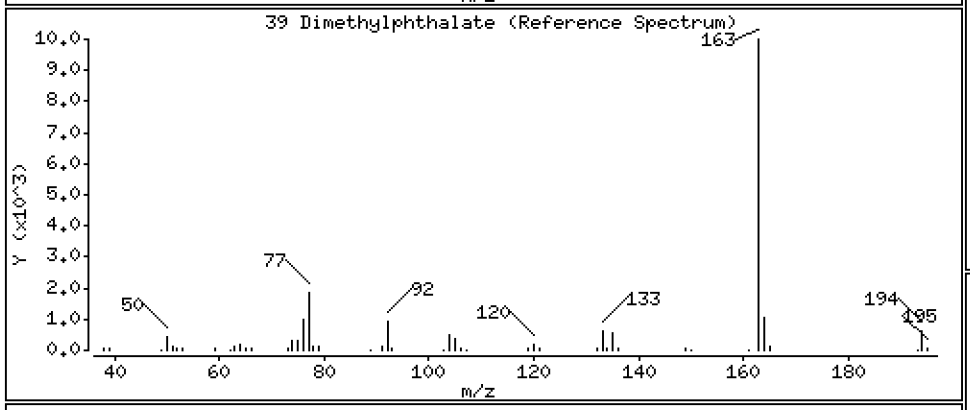
Column diameter: 0.25

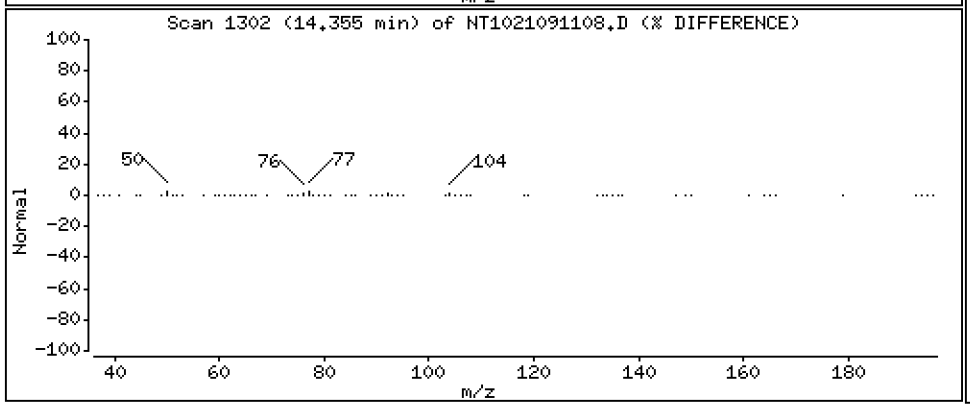
39 Dimethylphthalate

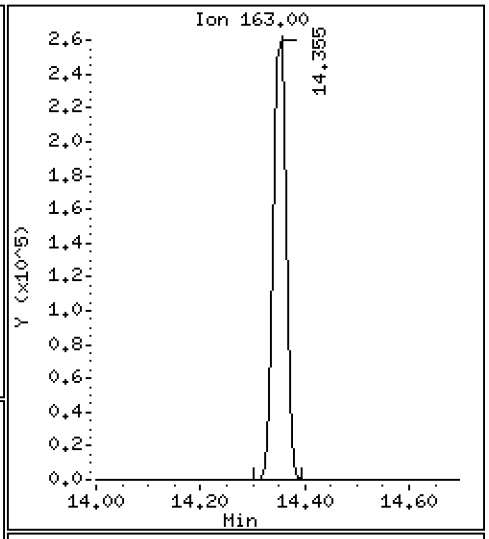
Concentration: 4.513 ug/mL

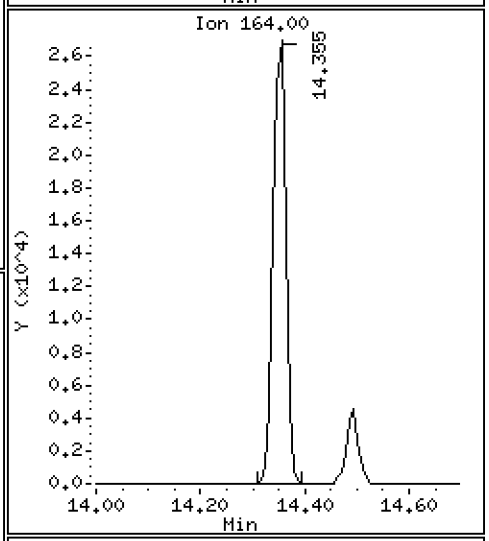


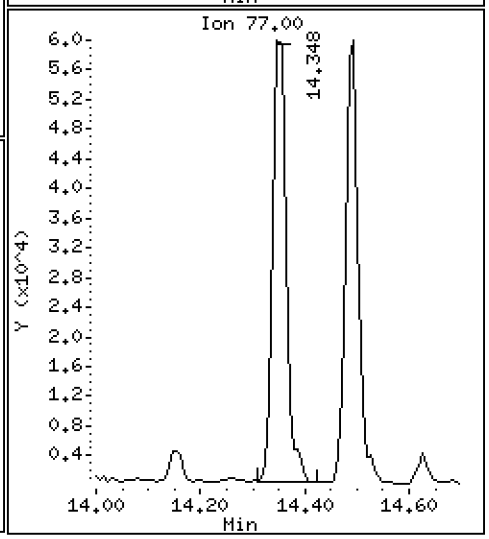












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

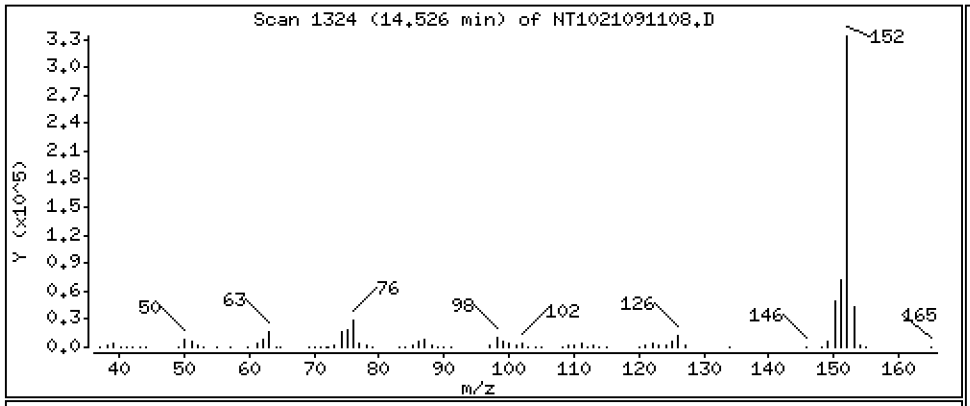
Operator: VTS

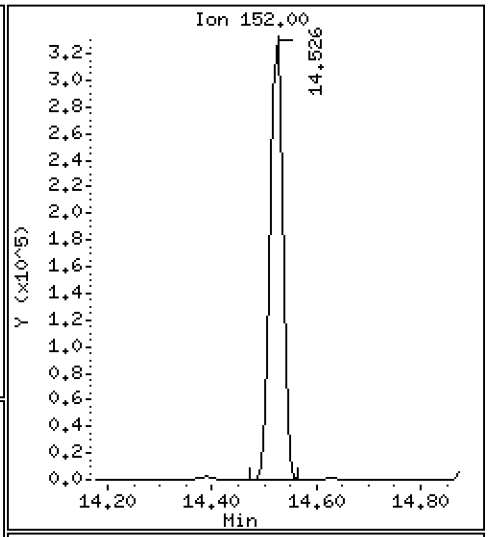
Column phase: ZB-5msi

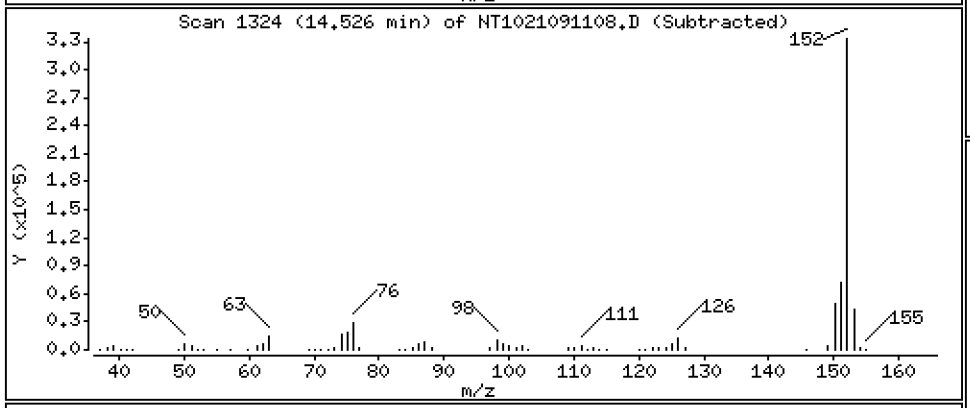
Column diameter: 0.25

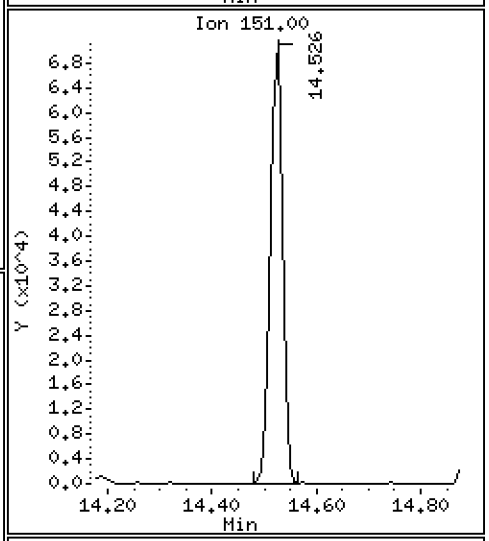
40 Acenaphthylene

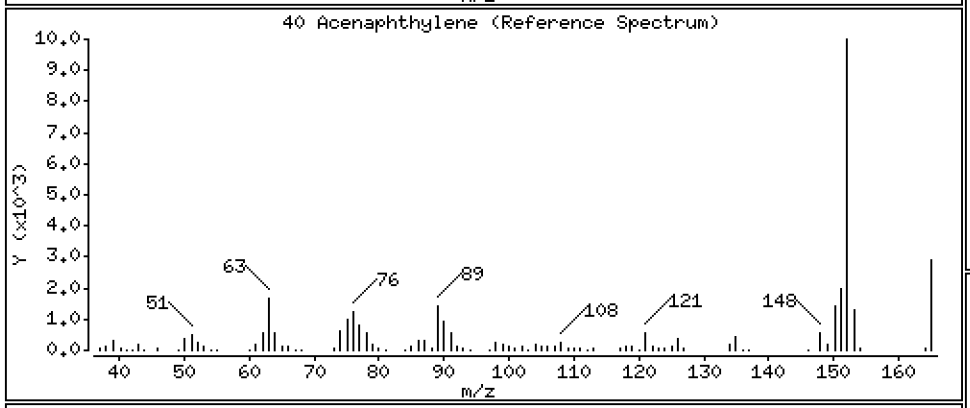
Concentration: 3.778 ug/mL

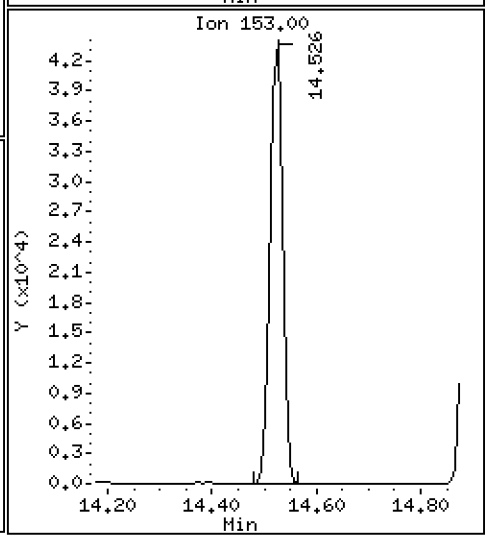


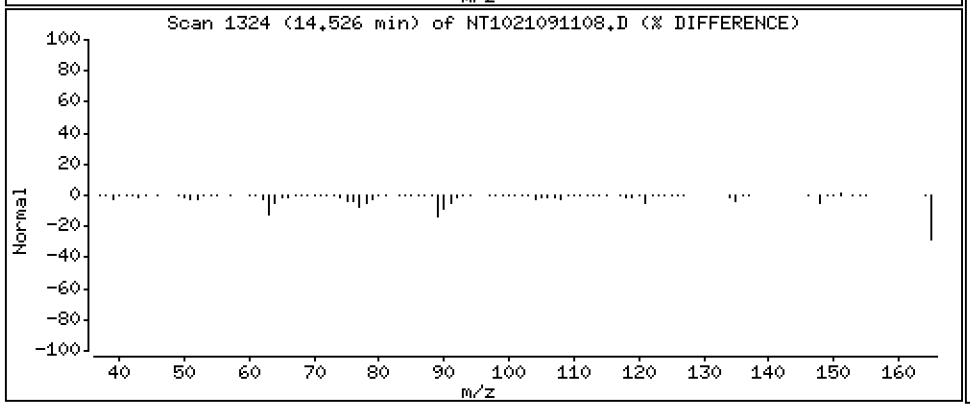












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

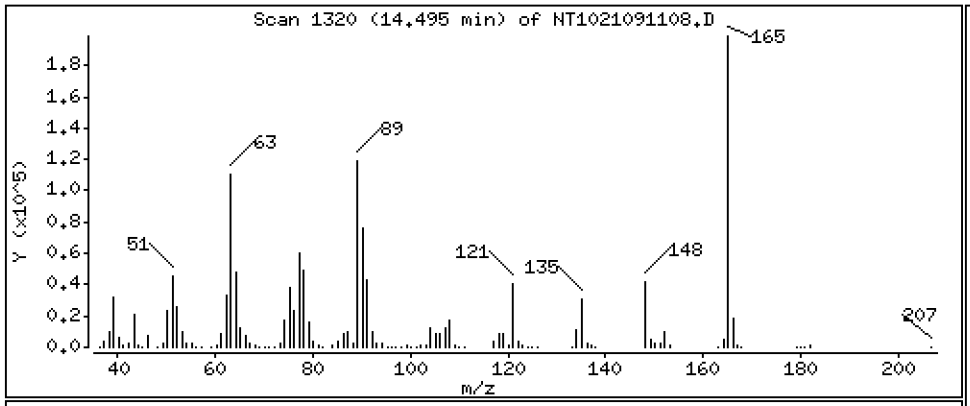
Operator: VTS

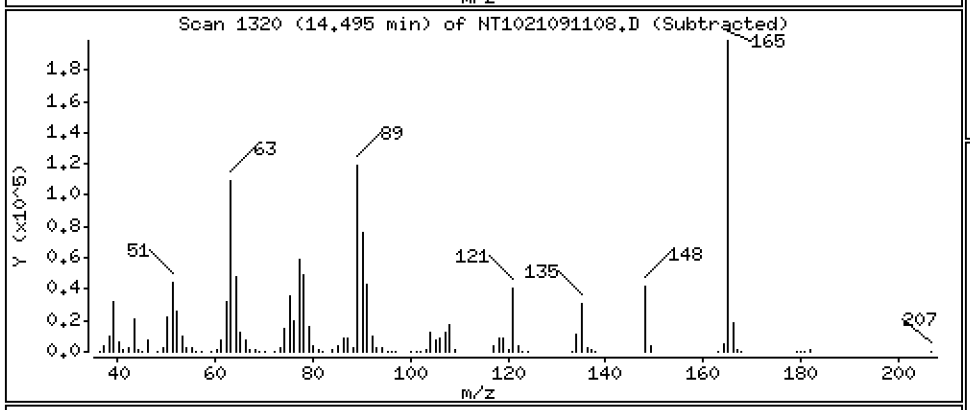
Column phase: ZB-5msi

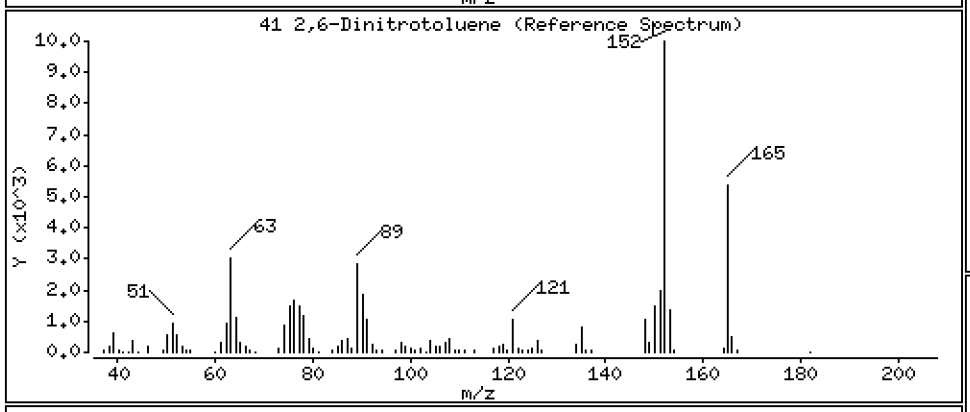
Column diameter: 0.25

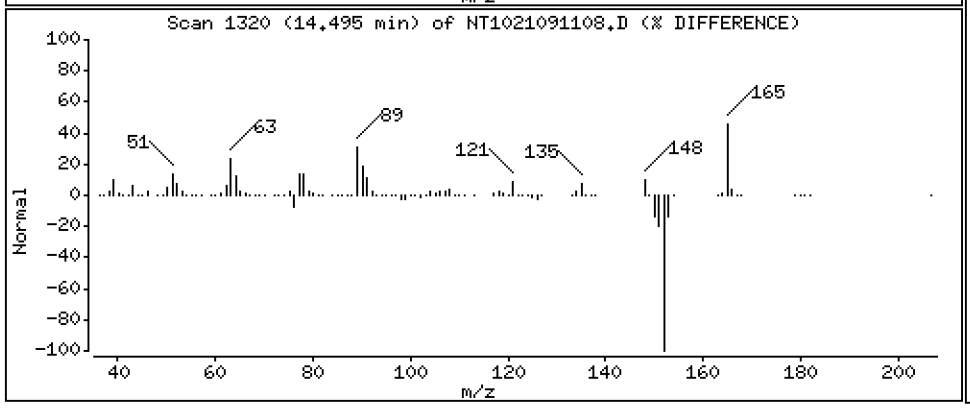
41 2,6-Dinitrotoluene

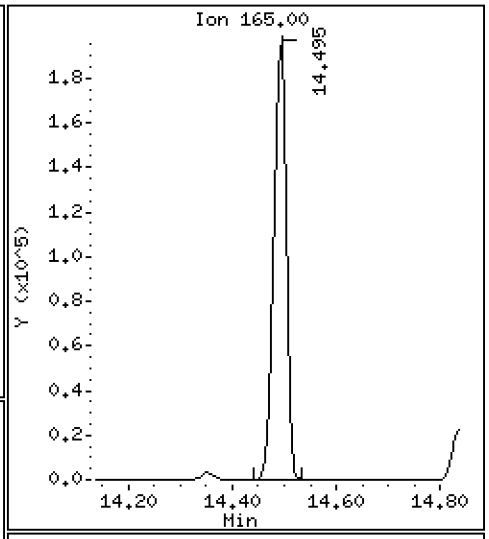
Concentration: 15.24 ug/mL

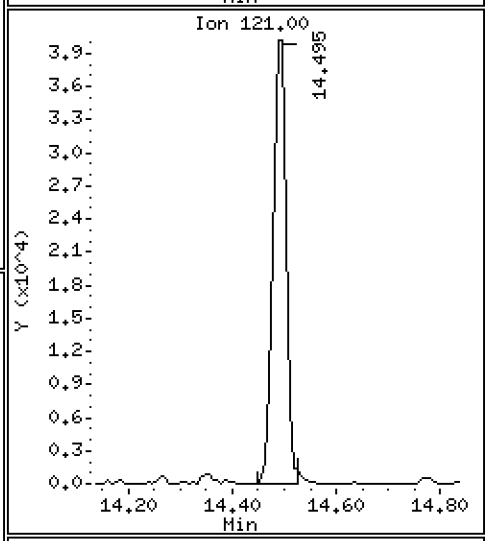


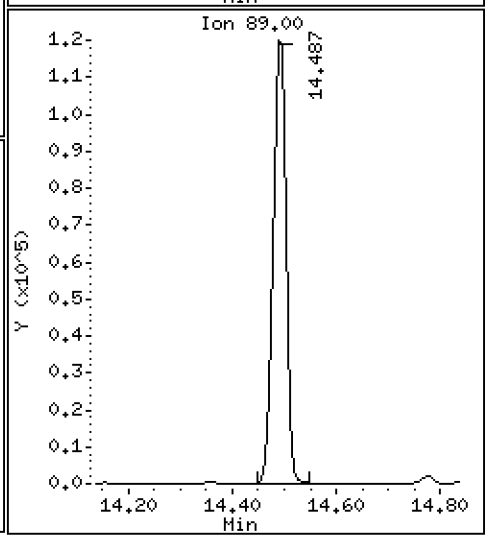












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

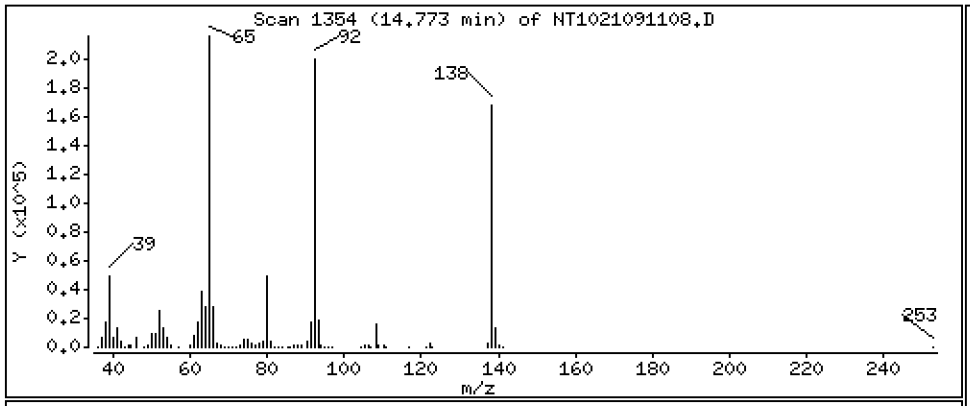
Operator: VTS

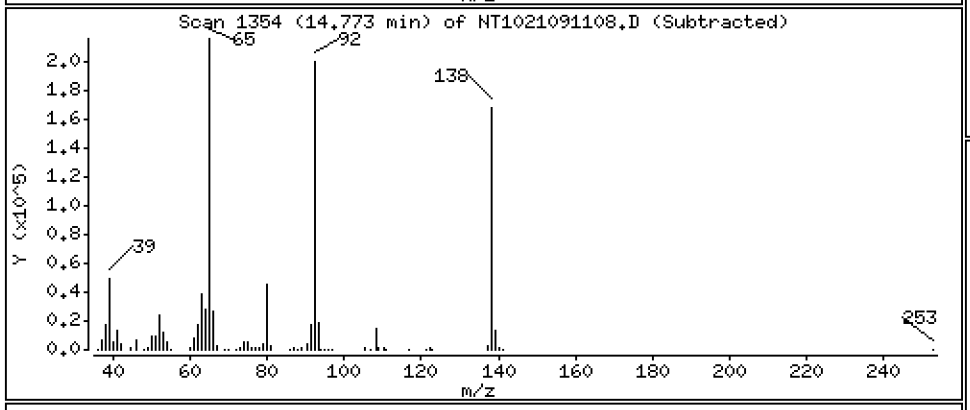
Column phase: ZB-5msi

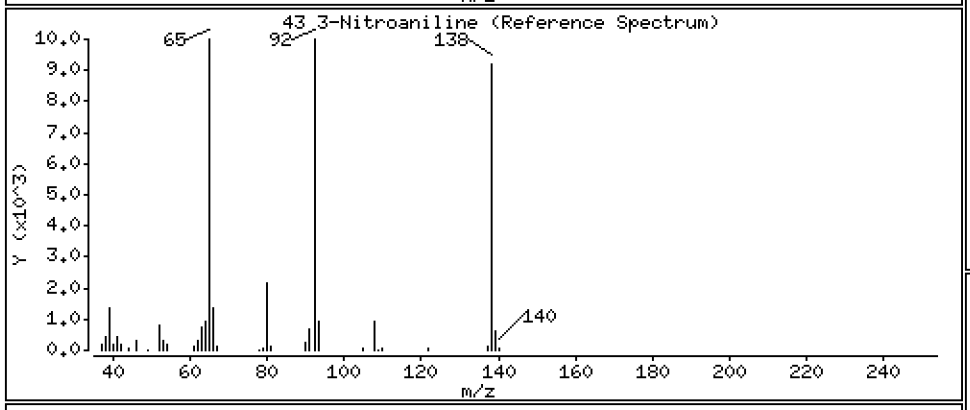
Column diameter: 0.25

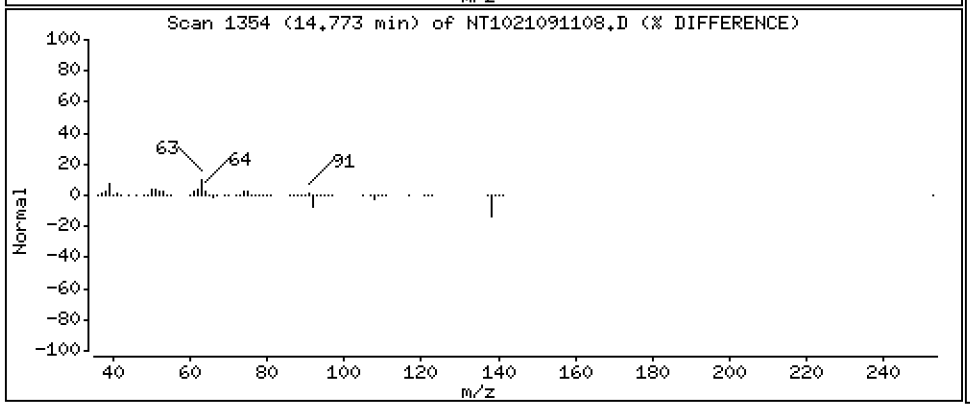
43 3-Nitroaniline

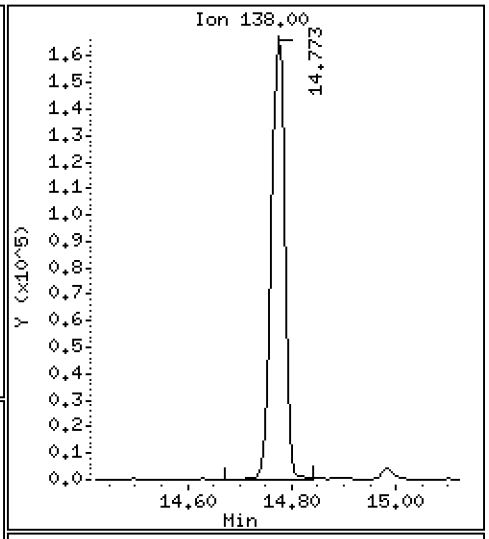
Concentration: 11.31 ug/mL

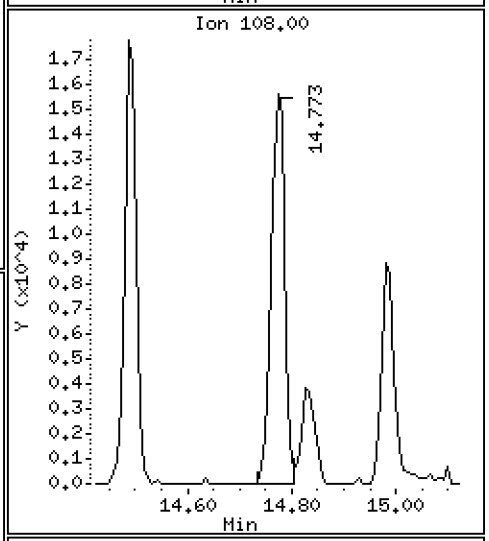


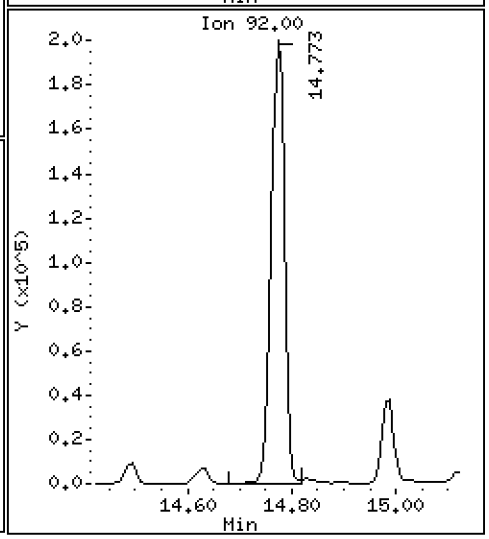












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

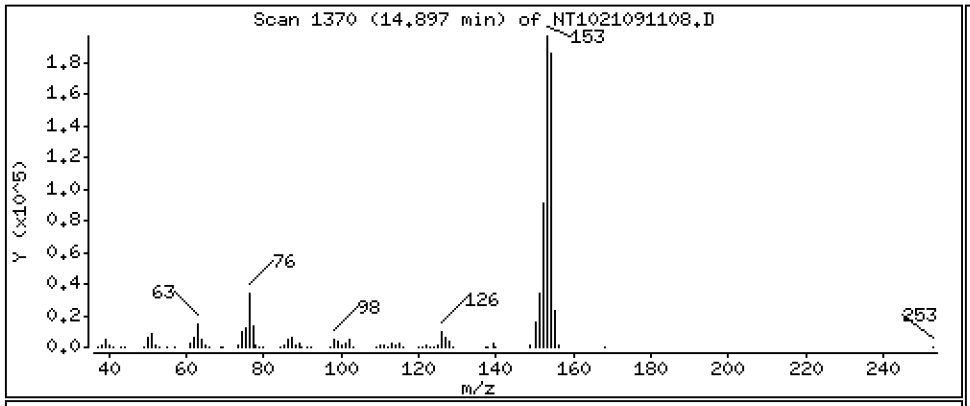
Operator: VTS

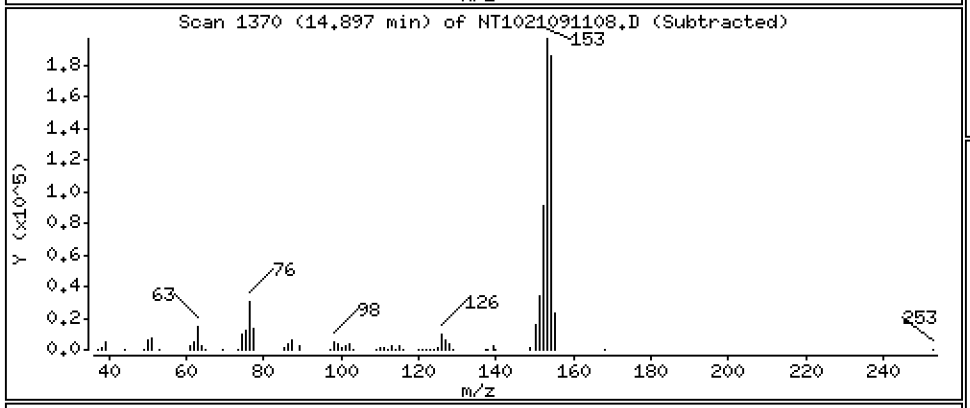
Column phase: ZB-5msi

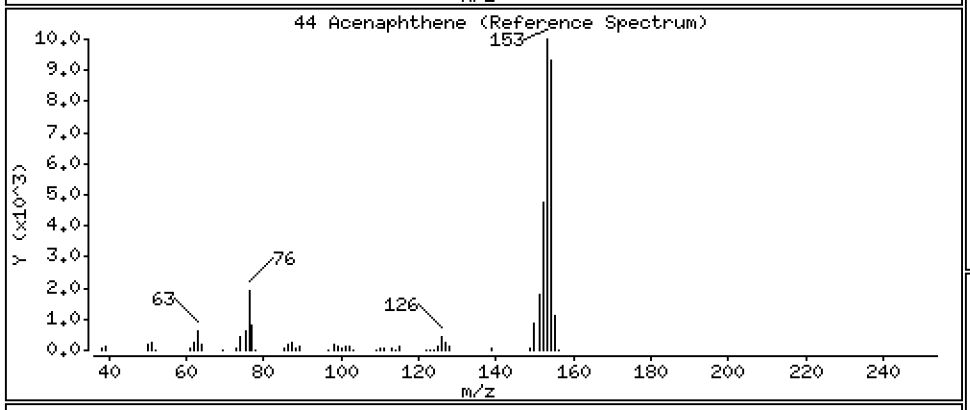
Column diameter: 0.25

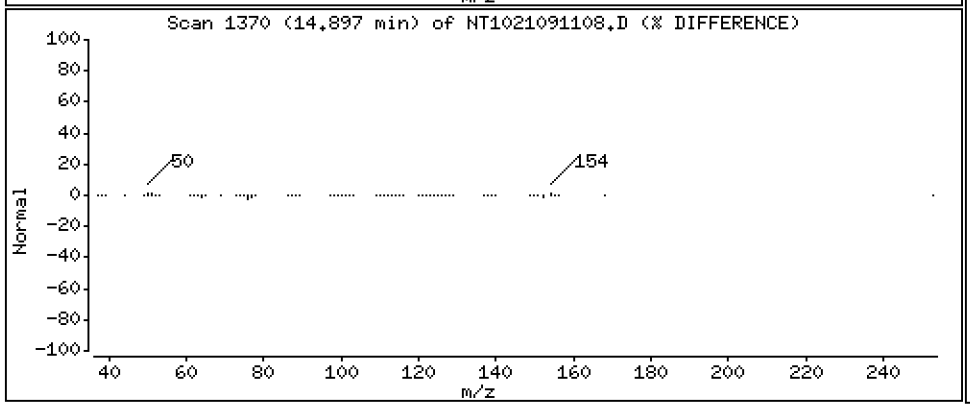
44 Acenaphthene

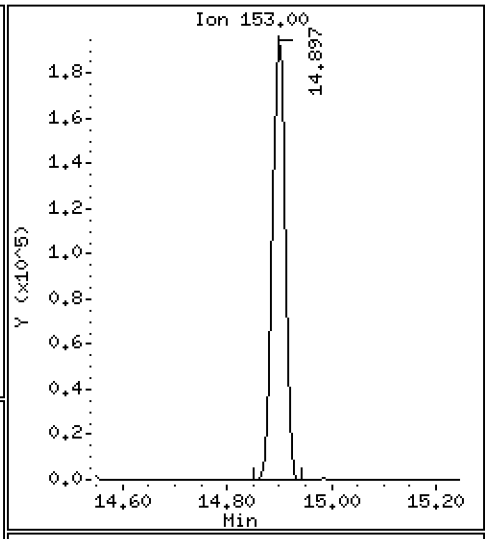
Concentration: 4.203 ug/mL

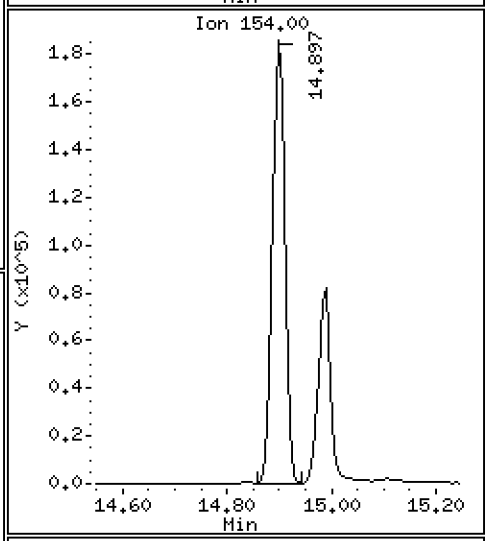


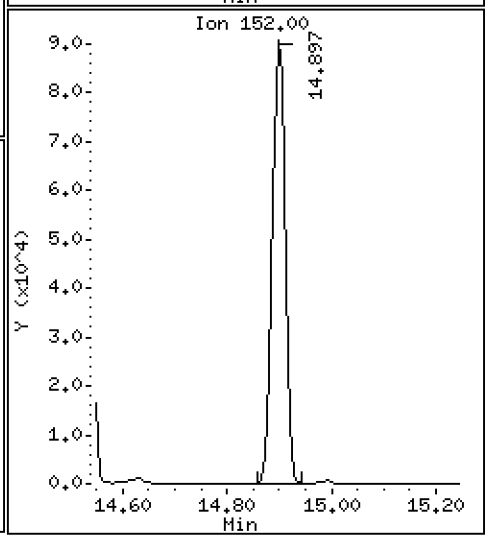












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

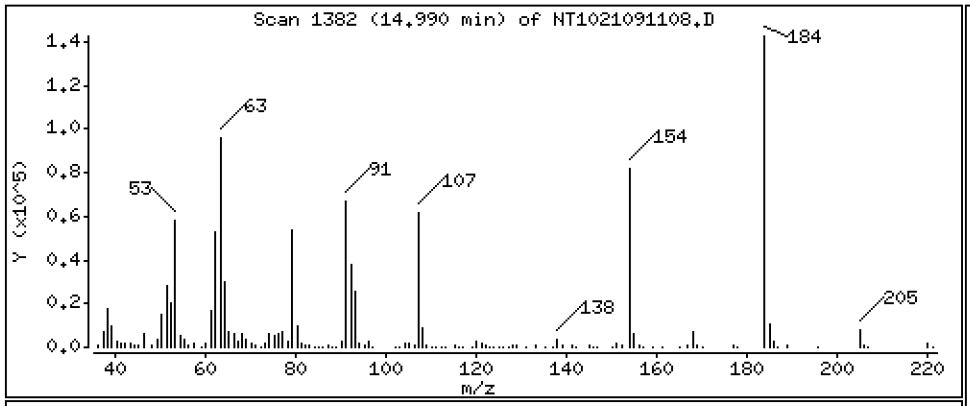
Operator: VTS

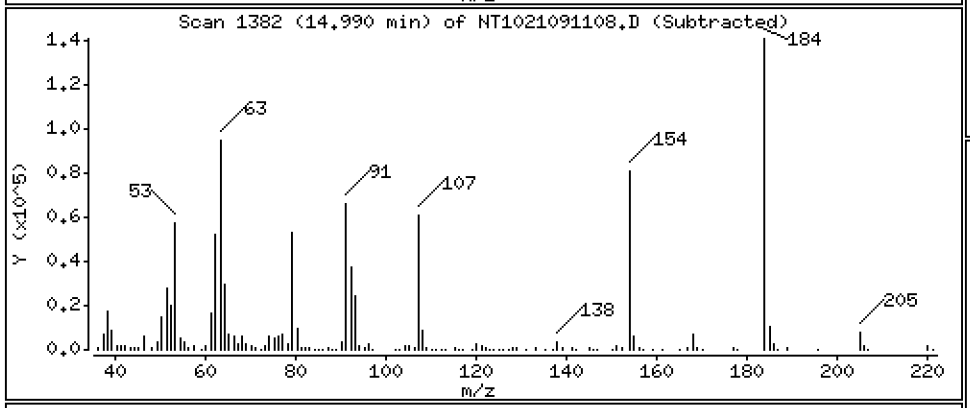
Column phase: ZB-5msi

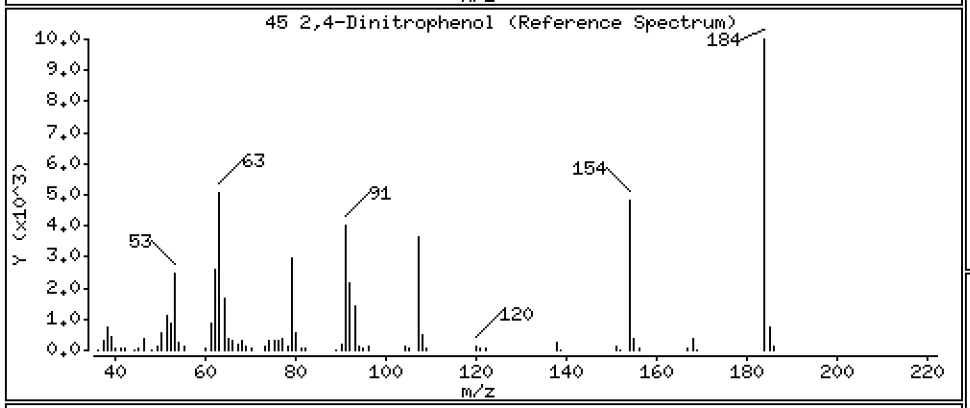
Column diameter: 0.25

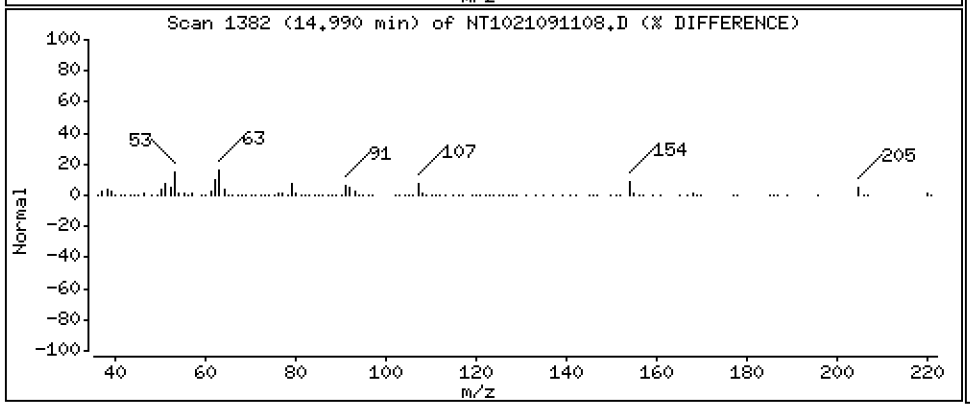
45 2,4-Dinitrophenol

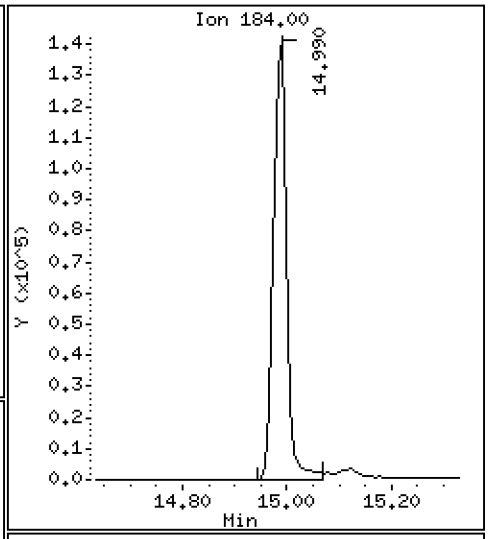
Concentration: 20.90 ug/mL

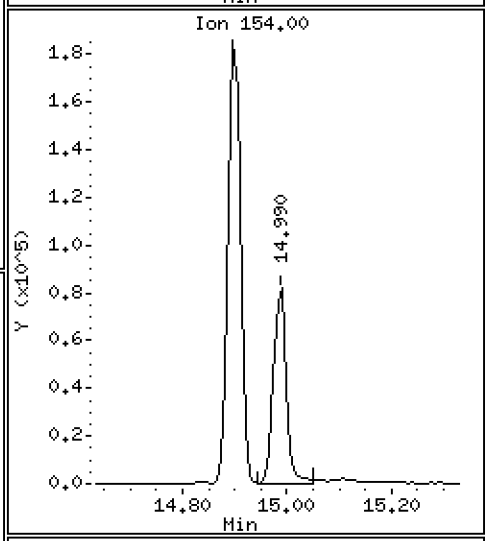


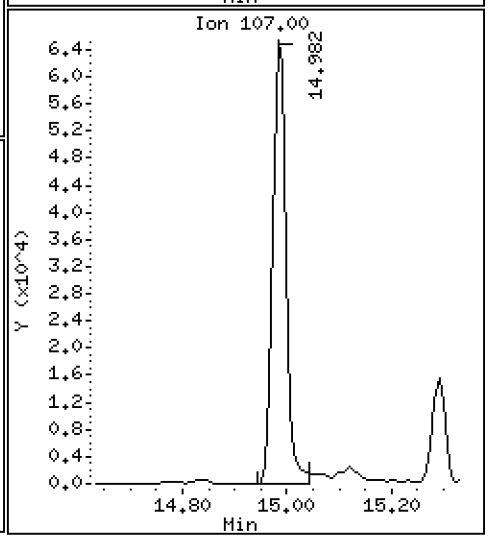












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

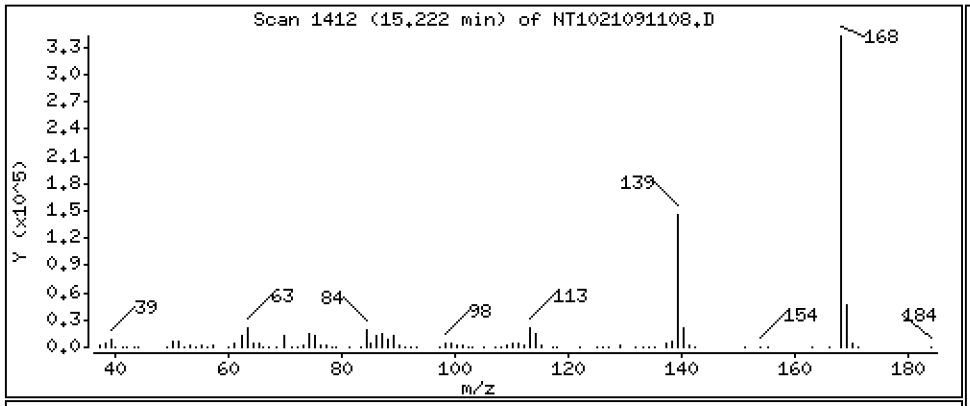
Operator: VTS

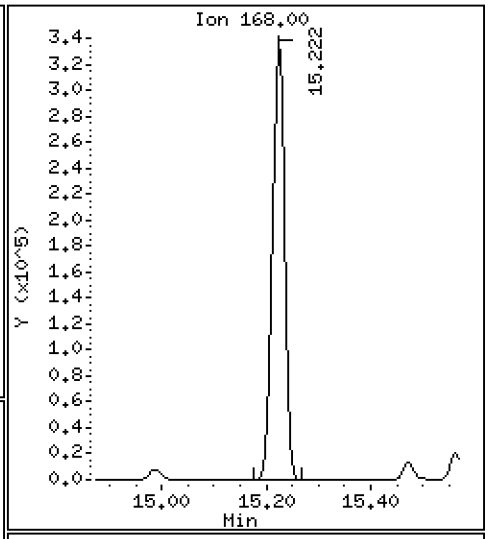
Column phase: ZB-5msi

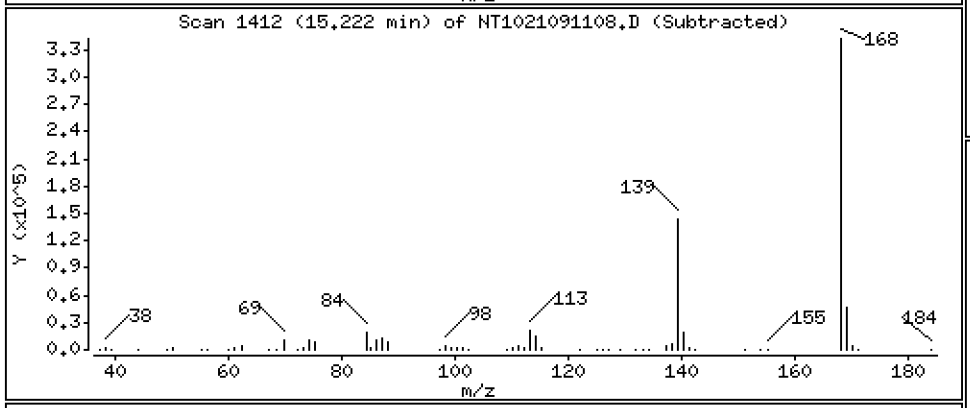
Column diameter: 0.25

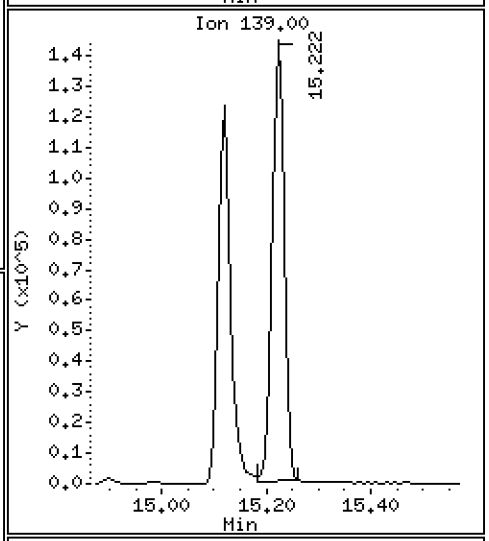
46 Dibenzofuran

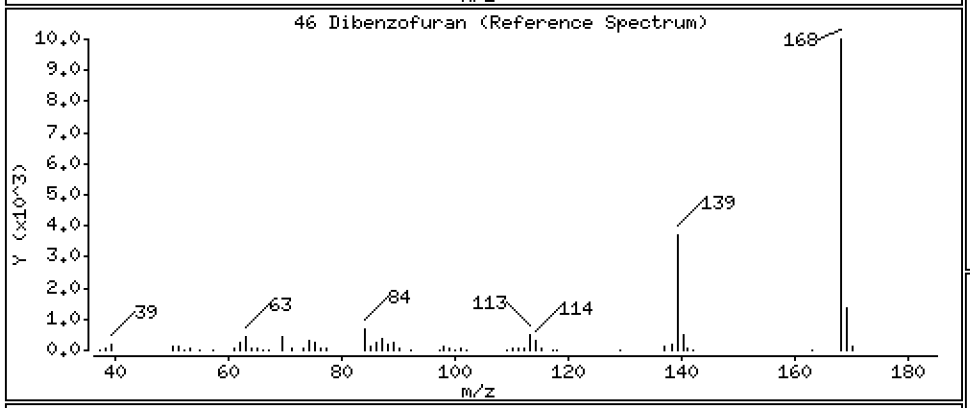
Concentration: 3.862 ug/mL

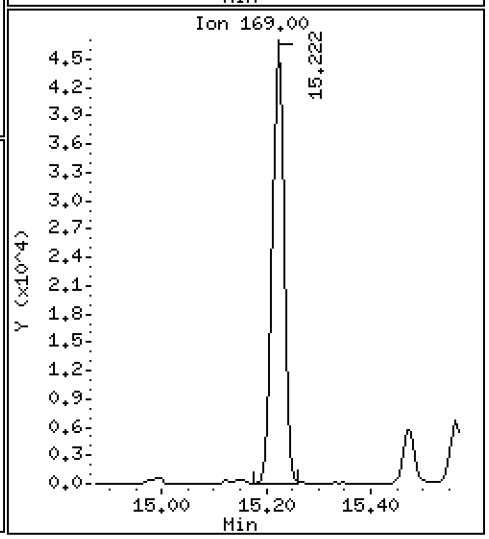


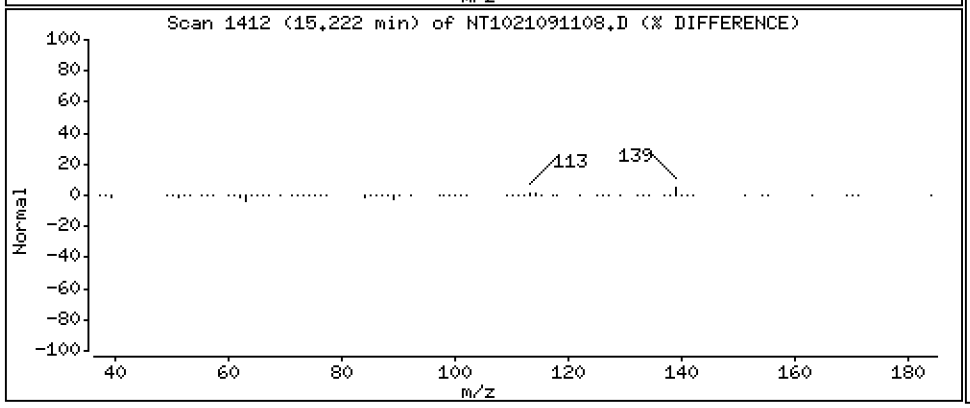












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

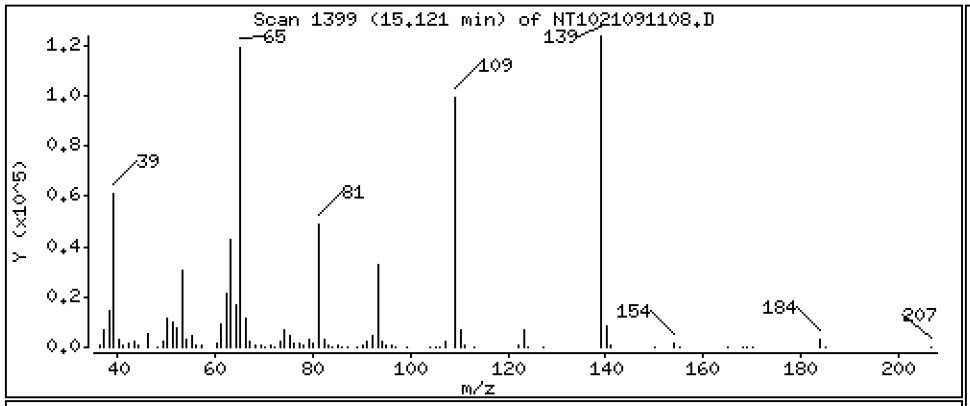
Operator: VTS

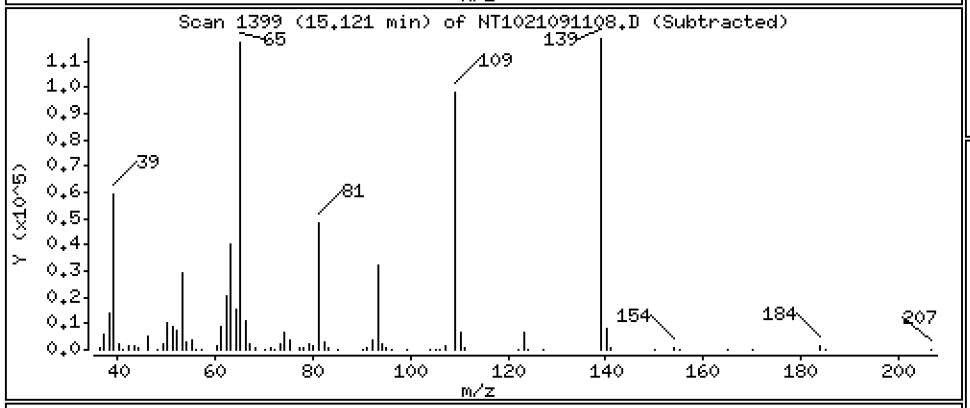
Column phase: ZB-5msi

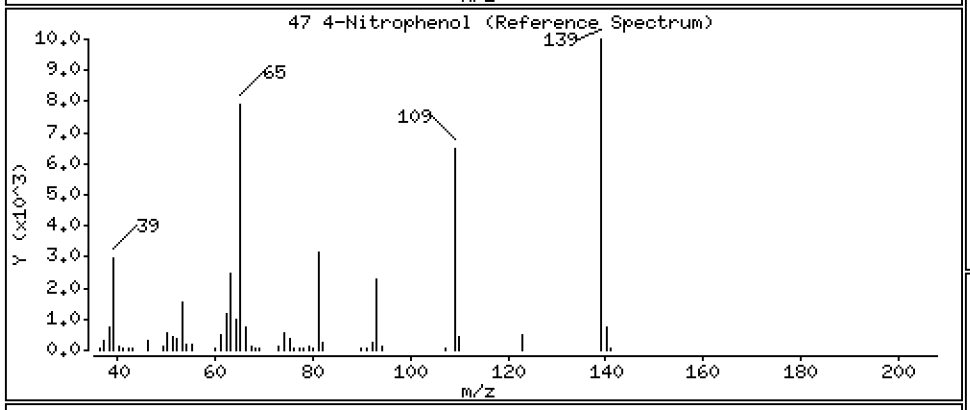
Column diameter: 0.25

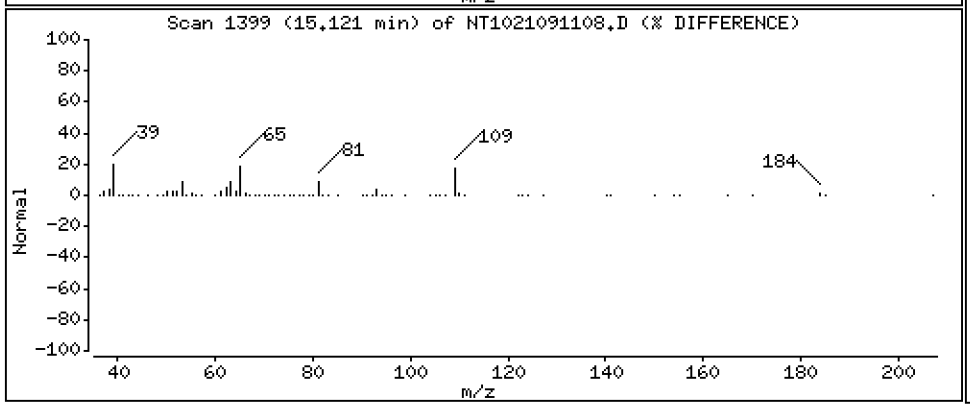
47 4-Nitrophenol

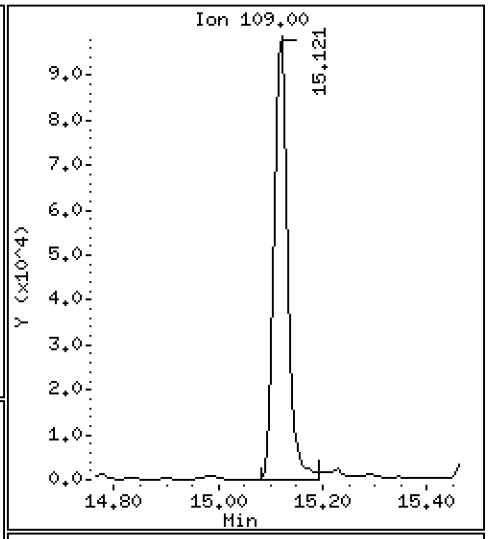
Concentration: 16.92 ug/mL

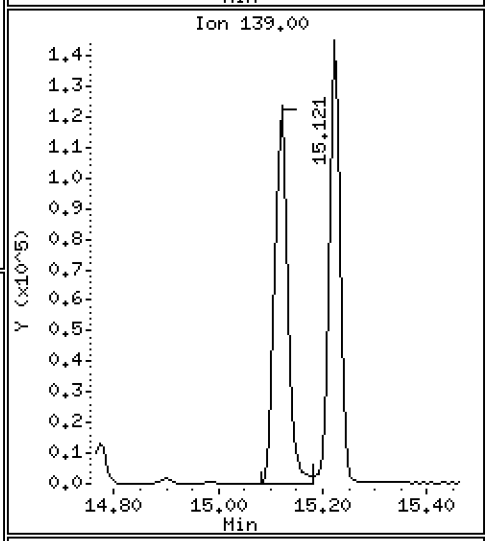


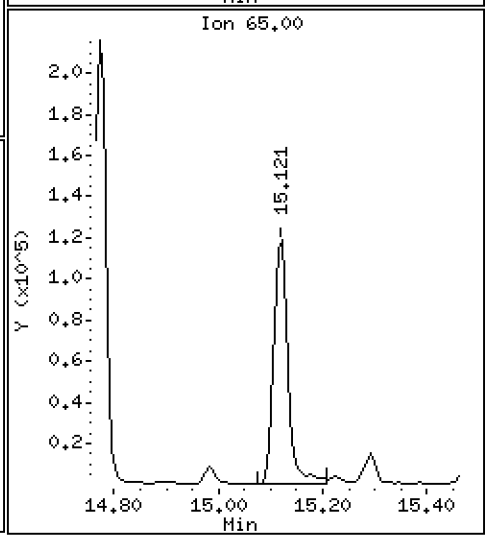












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

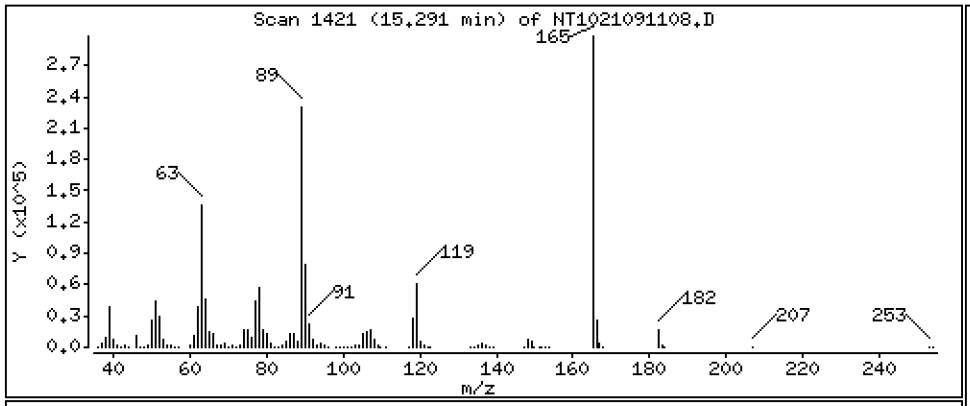
Operator: VTS

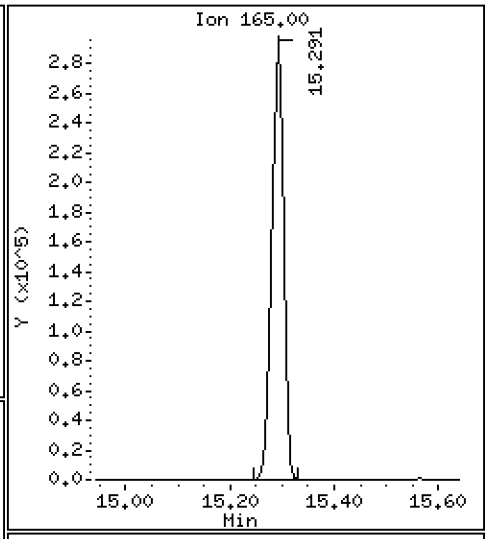
Column phase: ZB-5msi

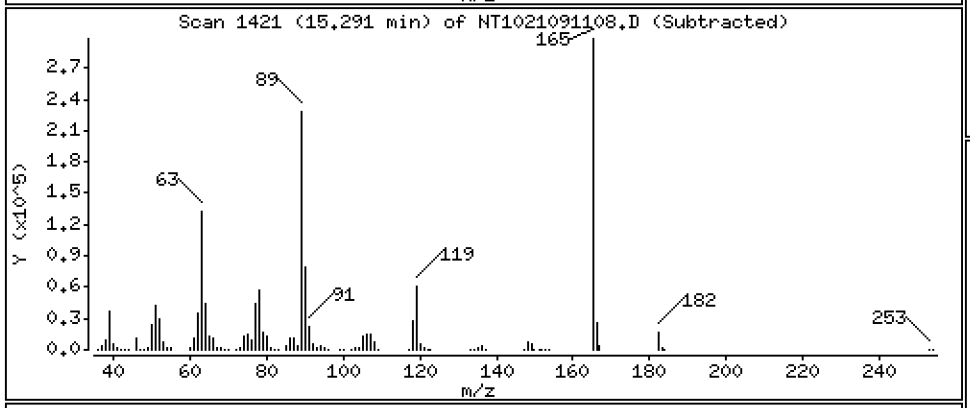
Column diameter: 0.25

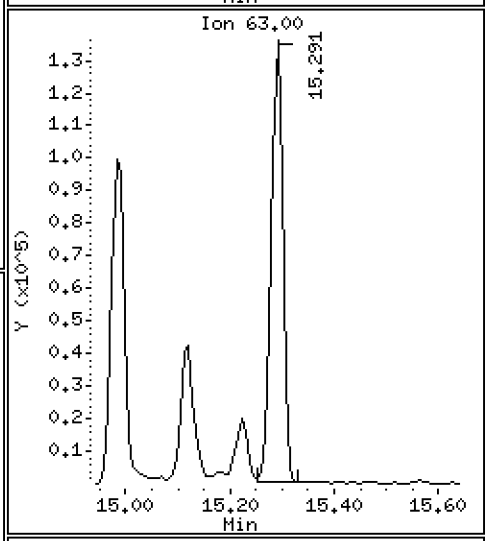
48 2,4-Dinitrotoluene

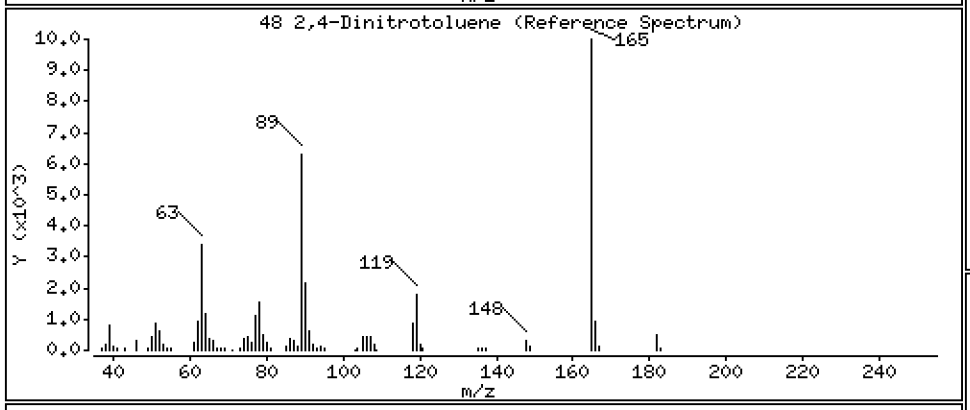
Concentration: 15.05 ug/mL

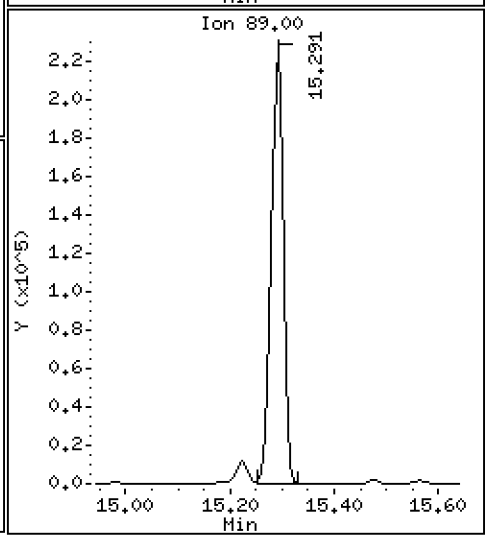


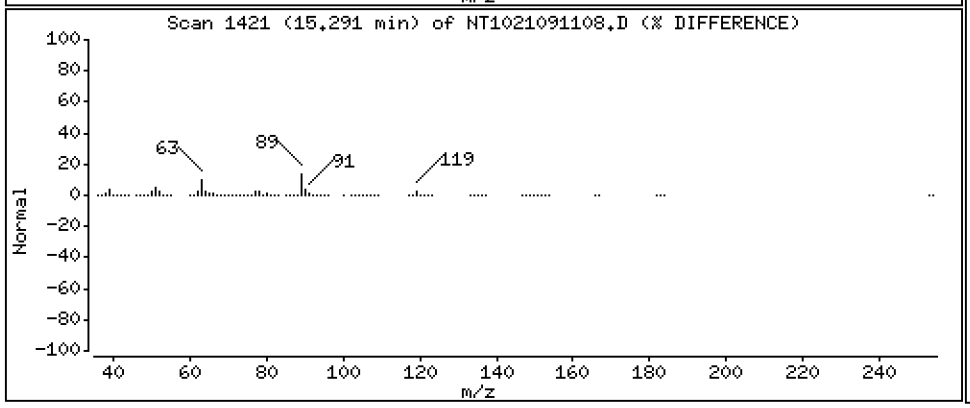












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

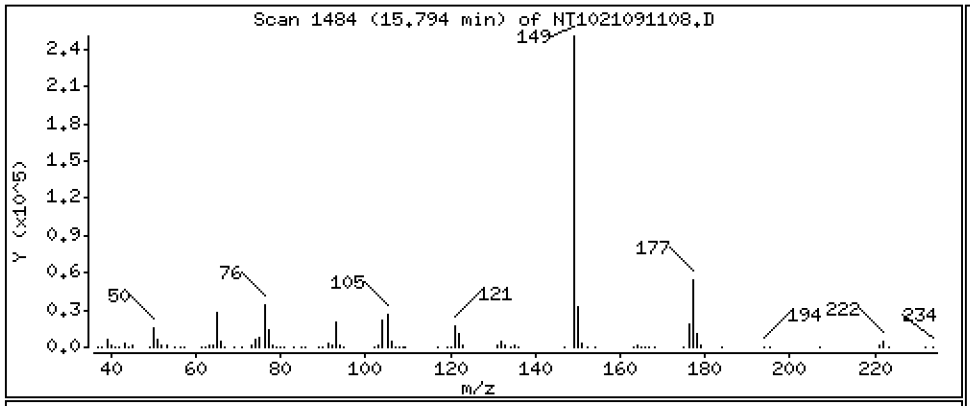
Operator: VTS

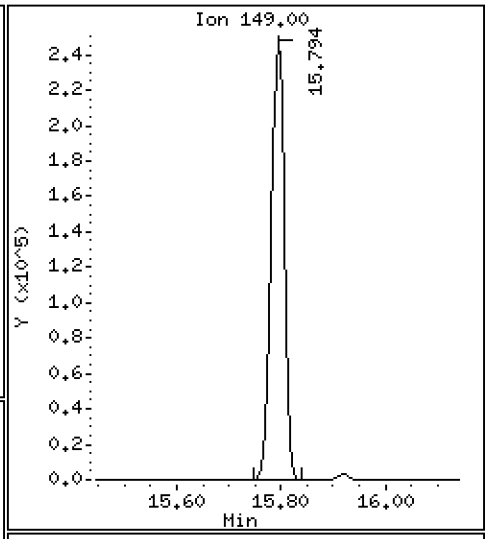
Column phase: ZB-5msi

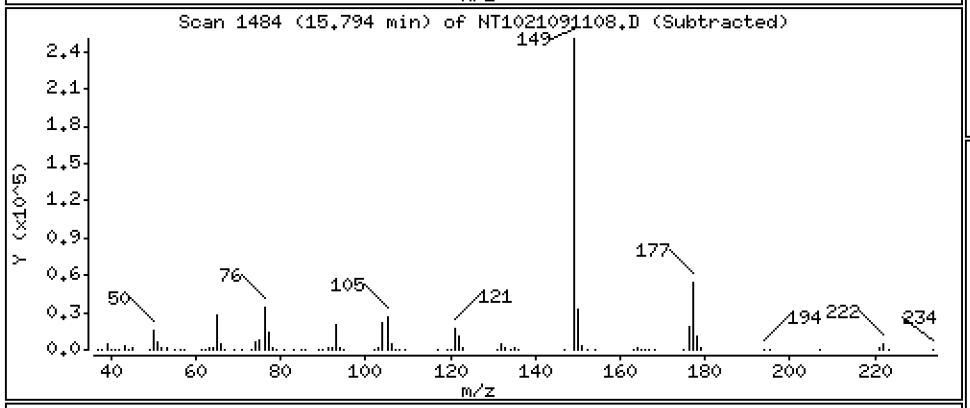
Column diameter: 0.25

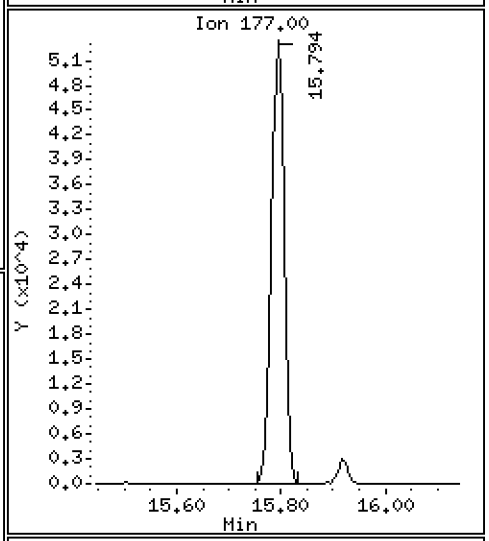
50 Diethylphthalate

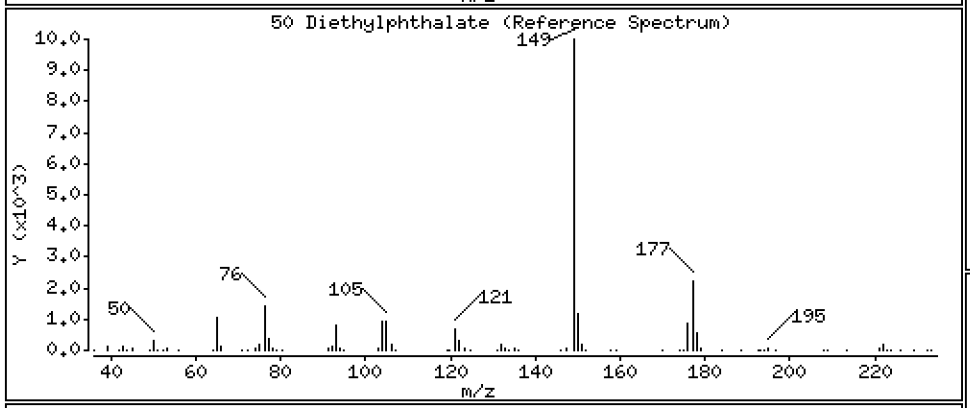
Concentration: 4.856 ug/mL

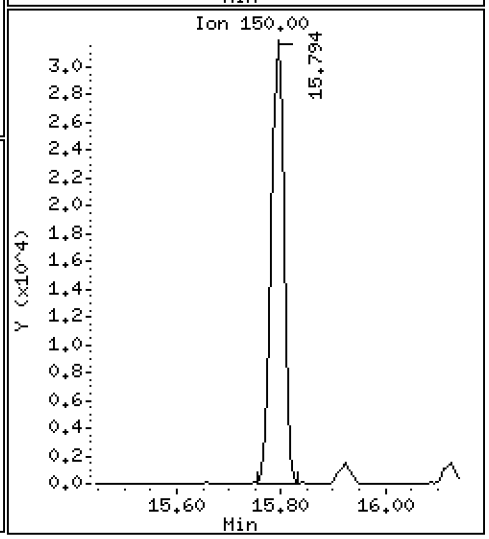


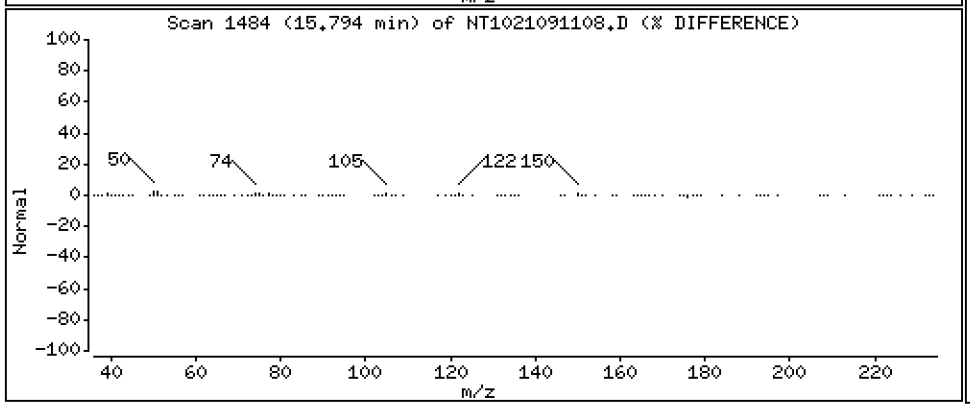












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

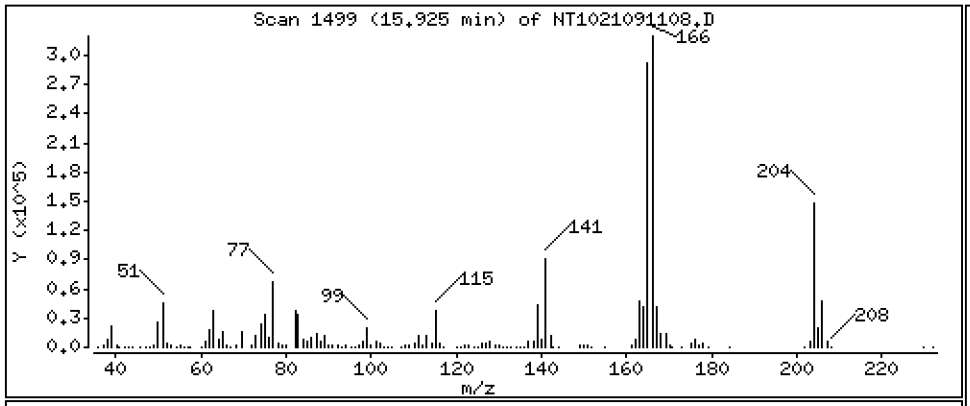
Operator: VTS

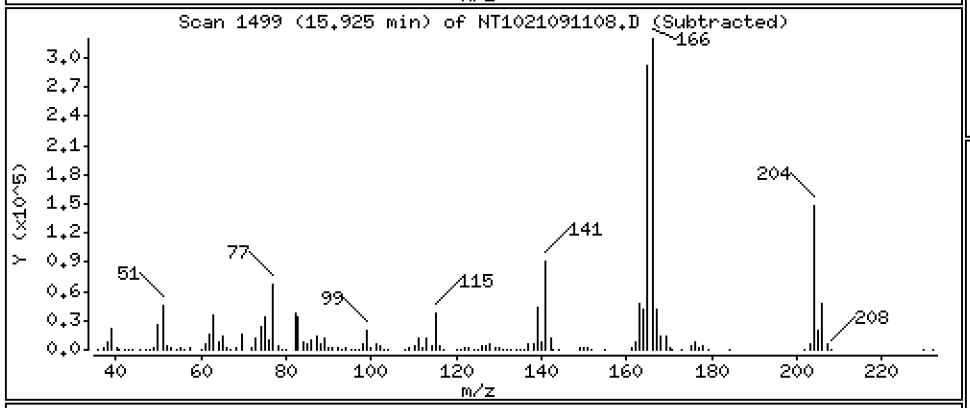
Column phase: ZB-5msi

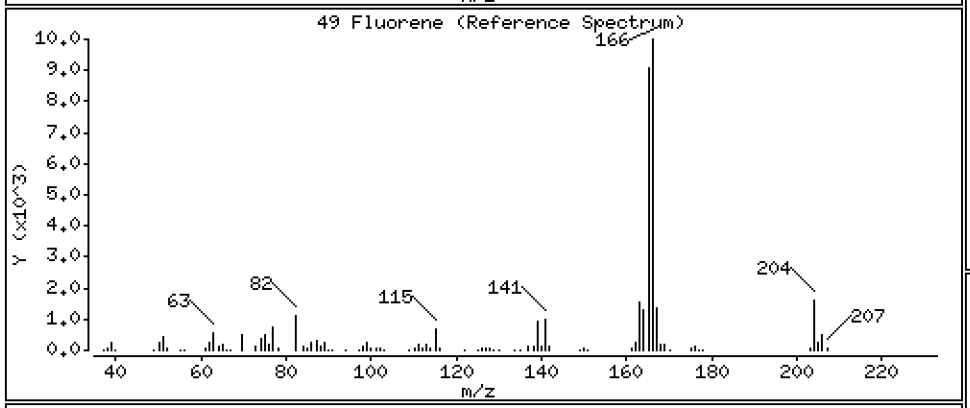
Column diameter: 0.25

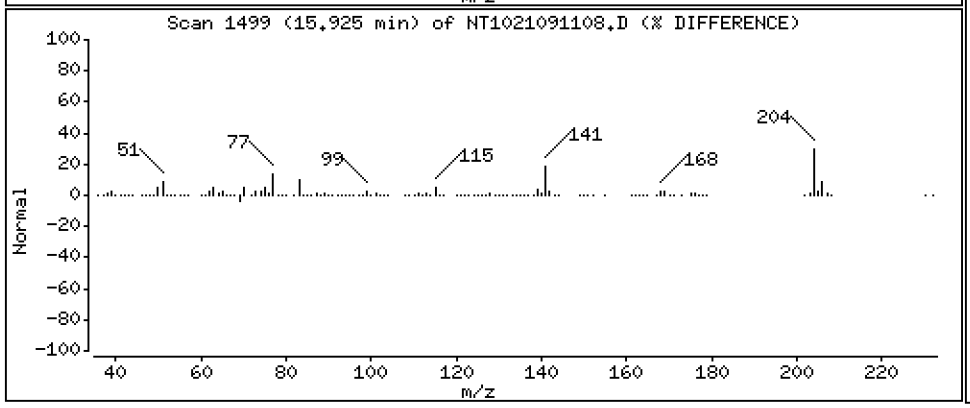
49 Fluorene

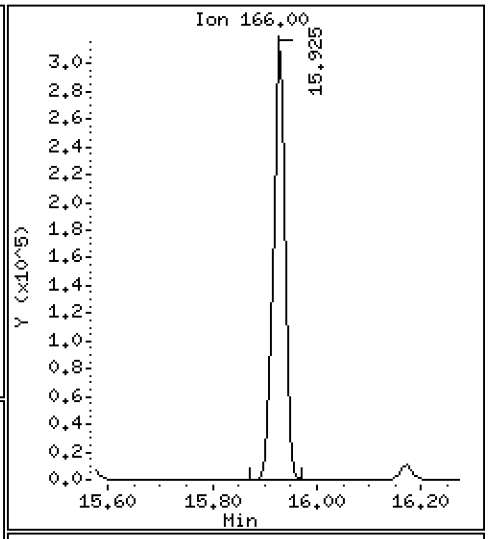
Concentration: 4.107 ug/mL

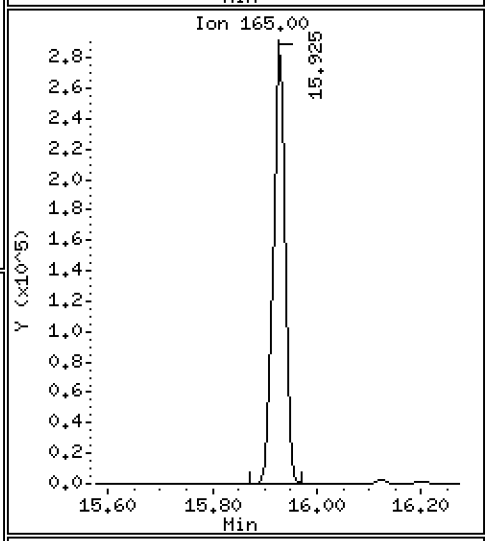


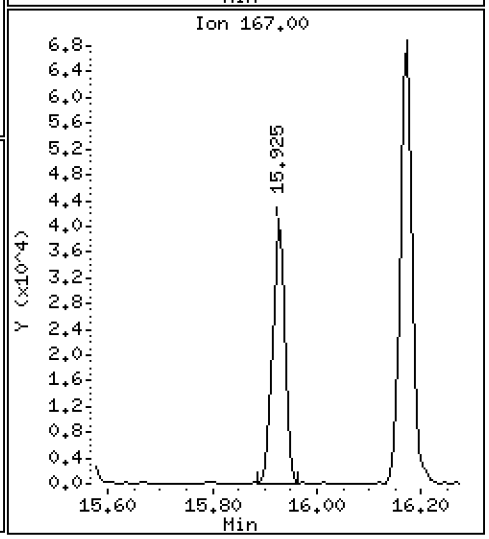












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

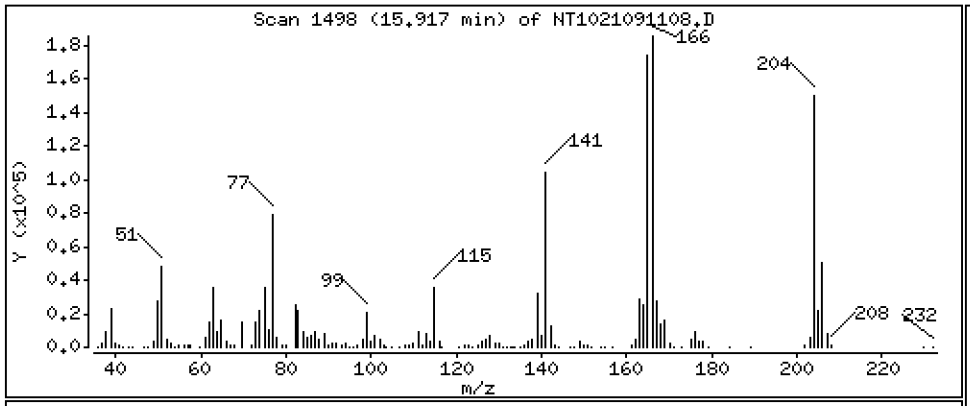
Operator: VTS

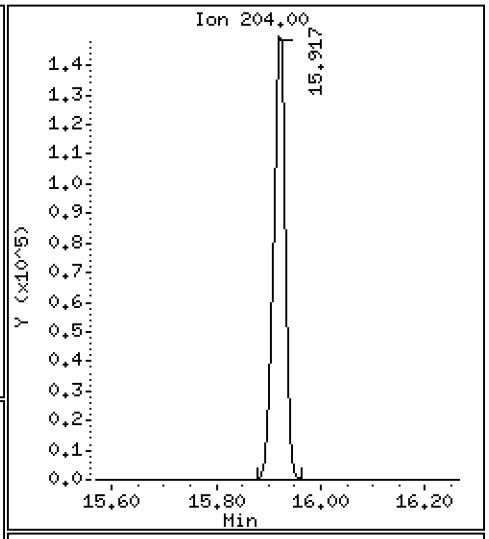
Column phase: ZB-5msi

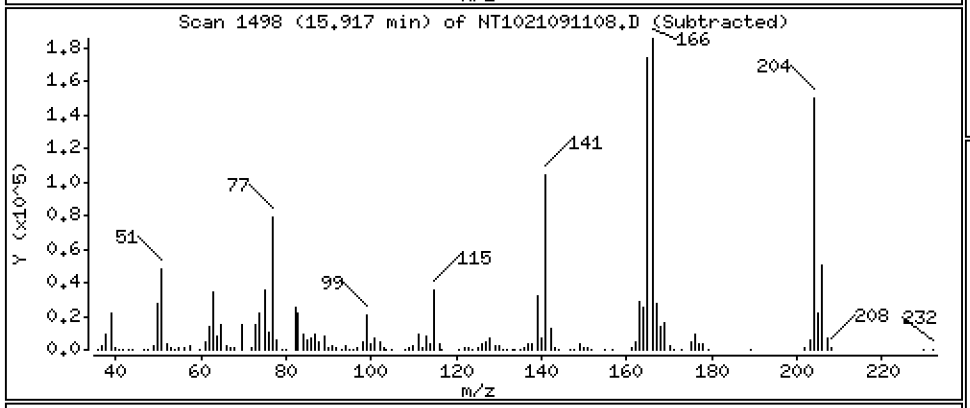
Column diameter: 0.25

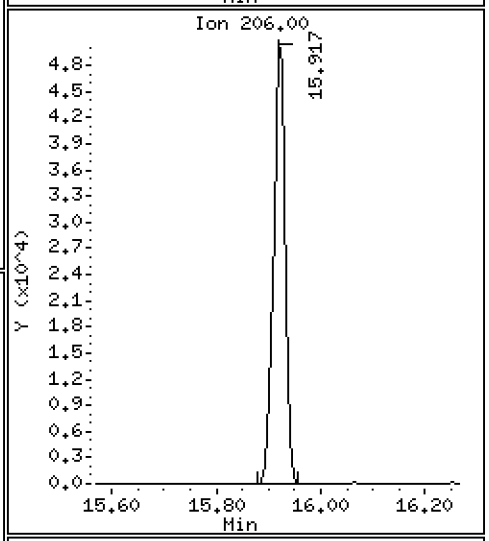
51 4-Chlorophenyl-phenylether

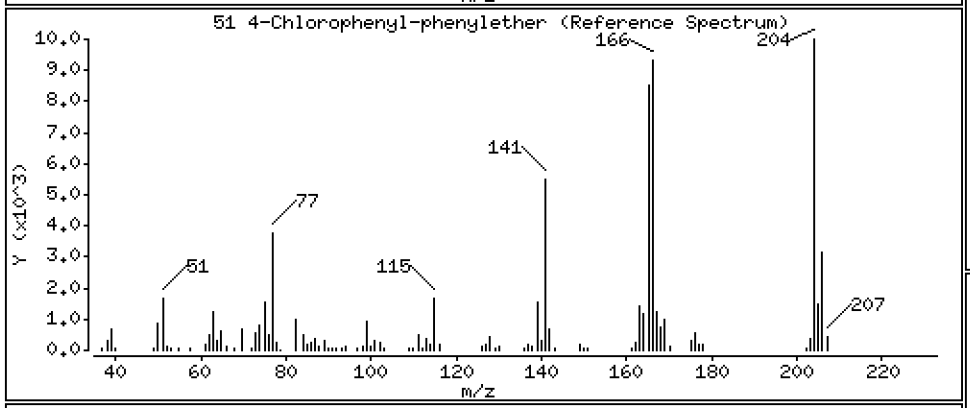
Concentration: 4.433 ug/mL

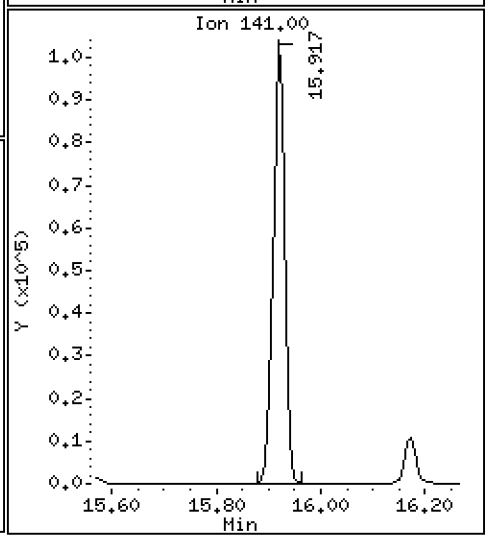


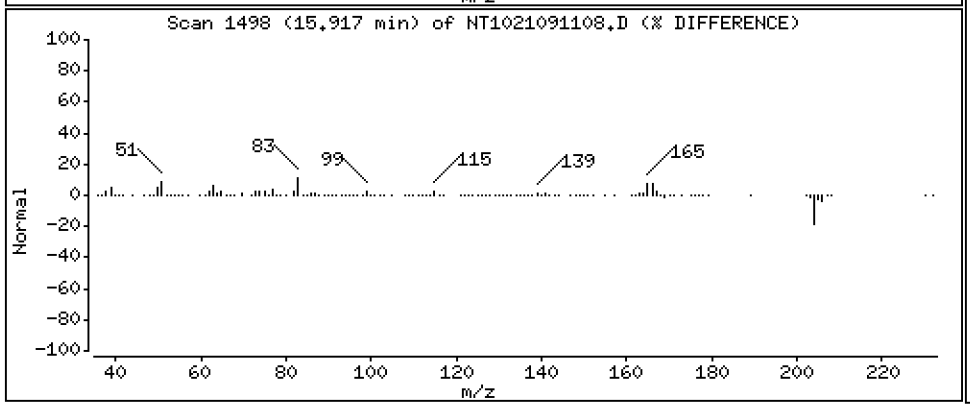












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

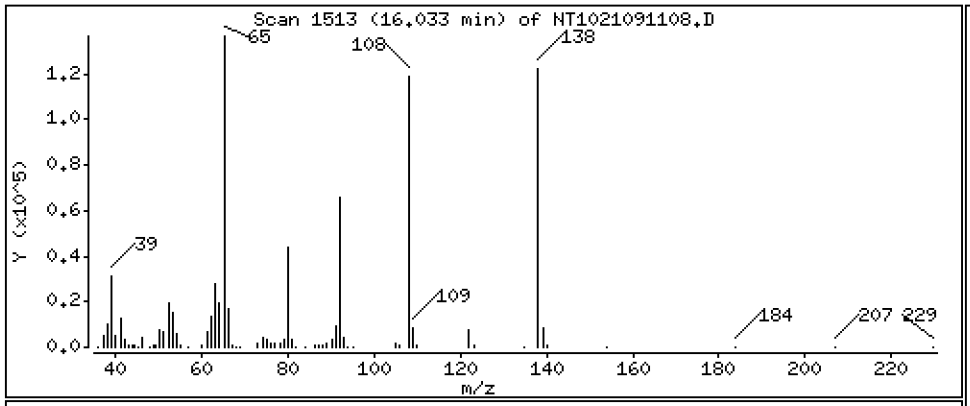
Operator: VTS

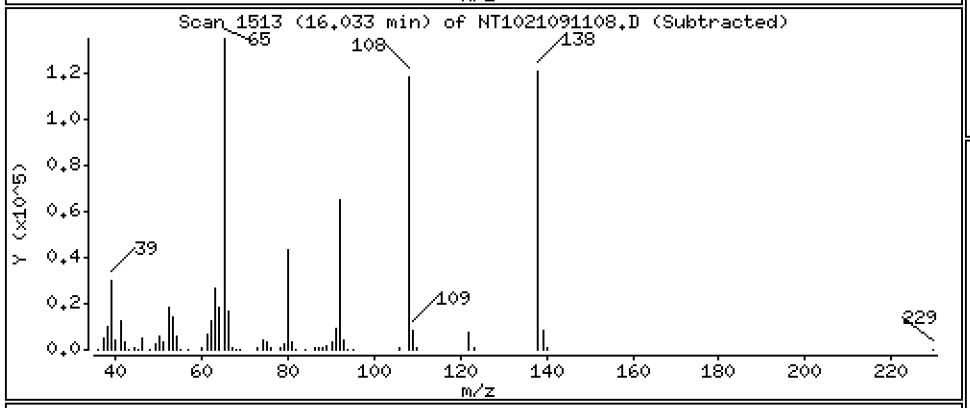
Column phase: ZB-5msi

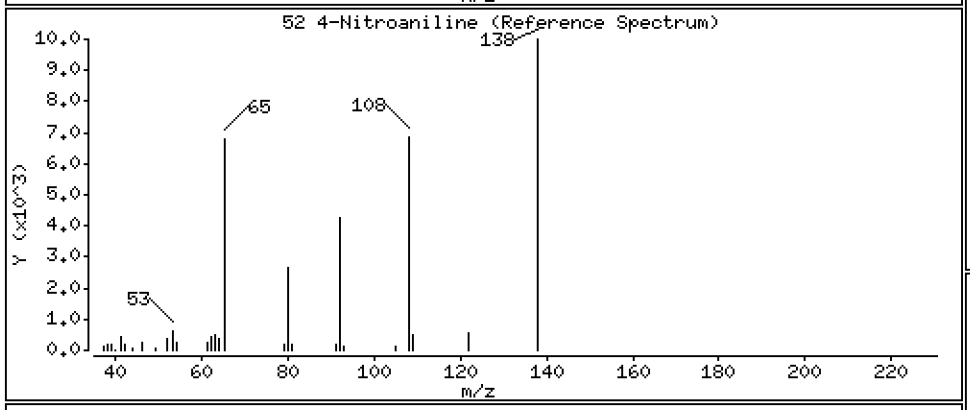
Column diameter: 0.25

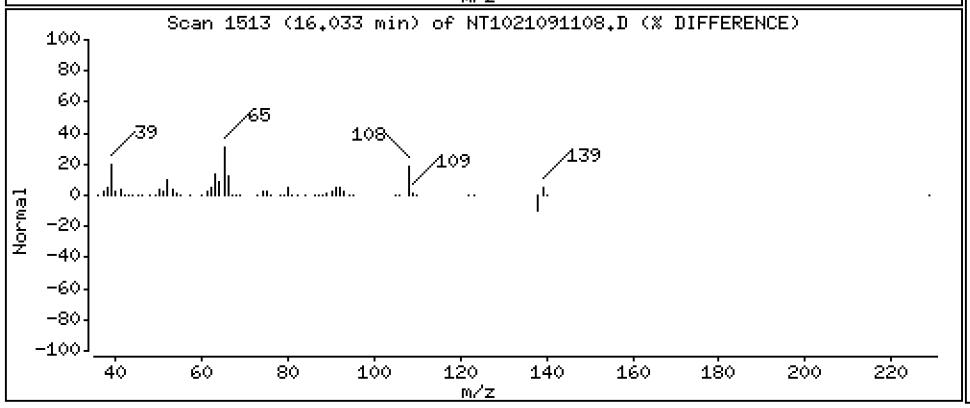
52 4-Nitroaniline

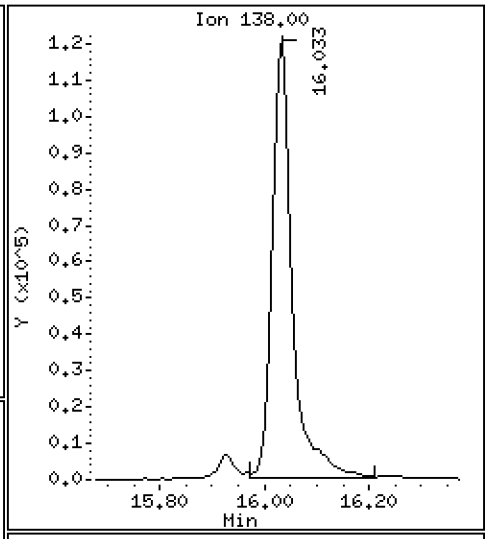
Concentration: 10.86 ug/mL

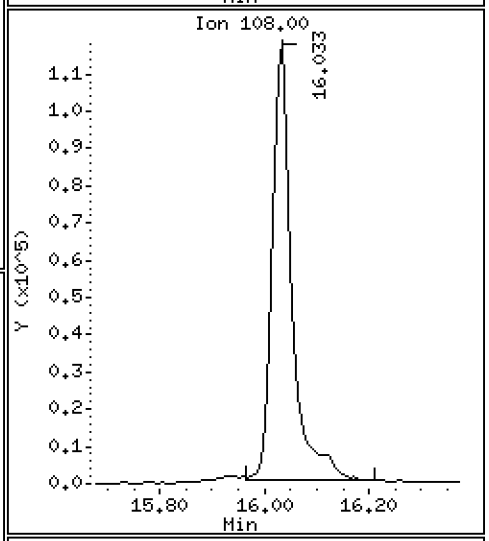


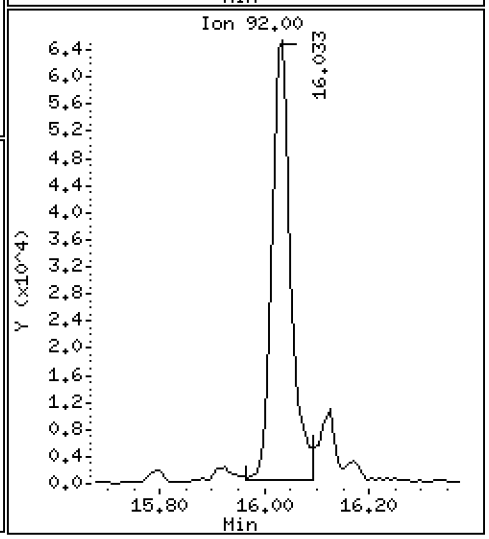












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

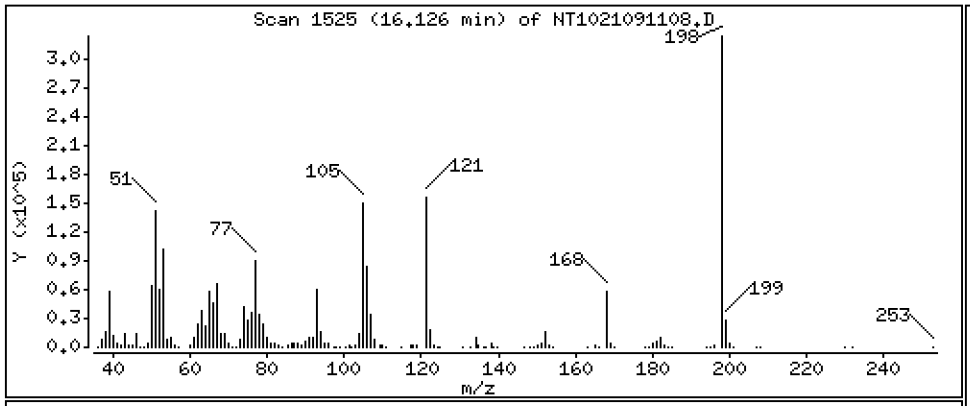
Operator: VTS

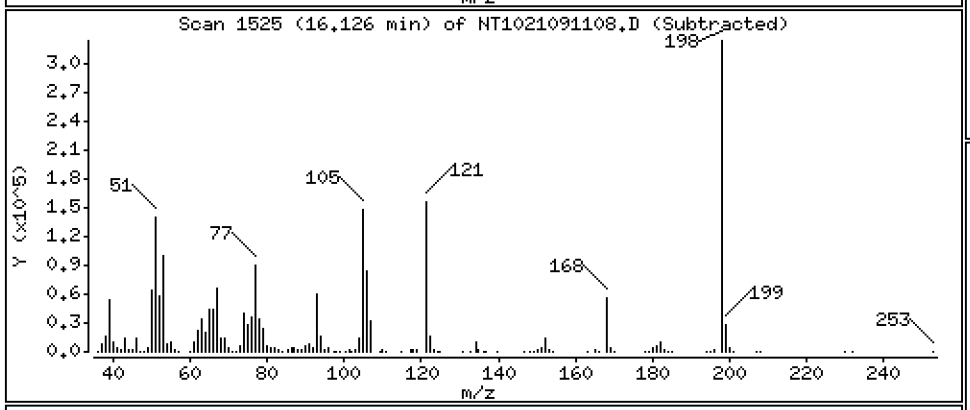
Column phase: ZB-5msi

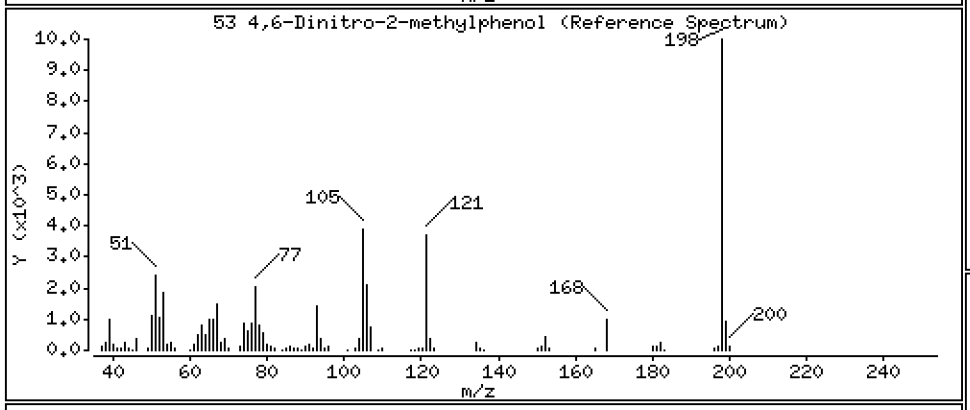
Column diameter: 0.25

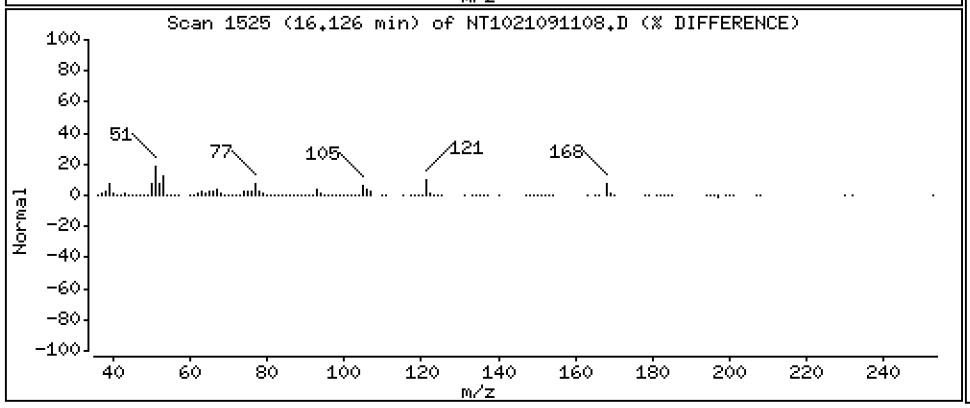
53 4,6-Dinitro-2-methylphenol

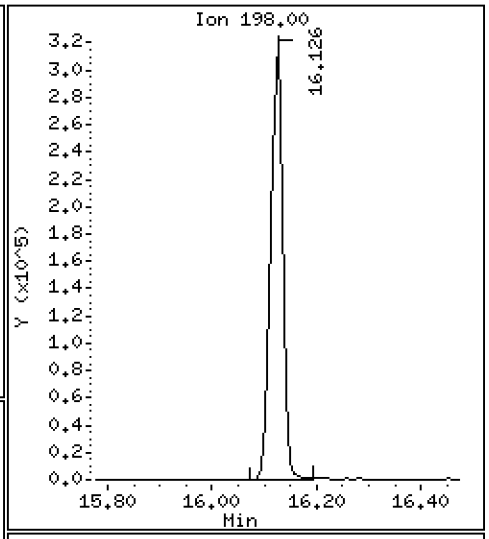
Concentration: 25.19 ug/mL

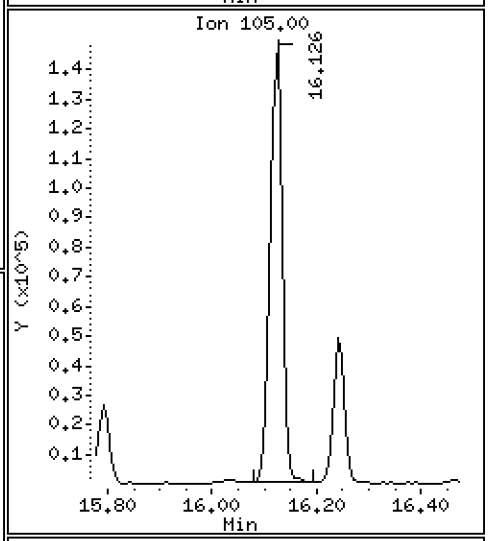


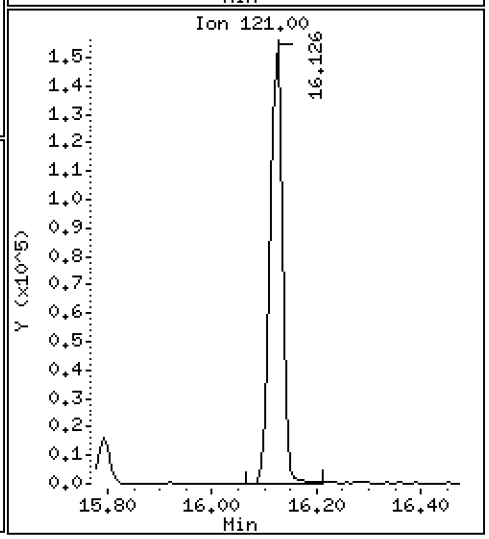












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Date : 11-SEP-2021 14:55

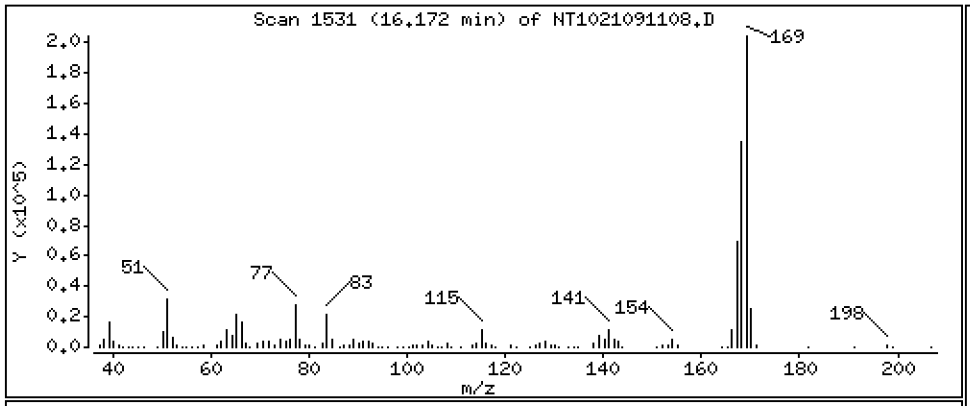
Client ID: Instrument: nt10.i

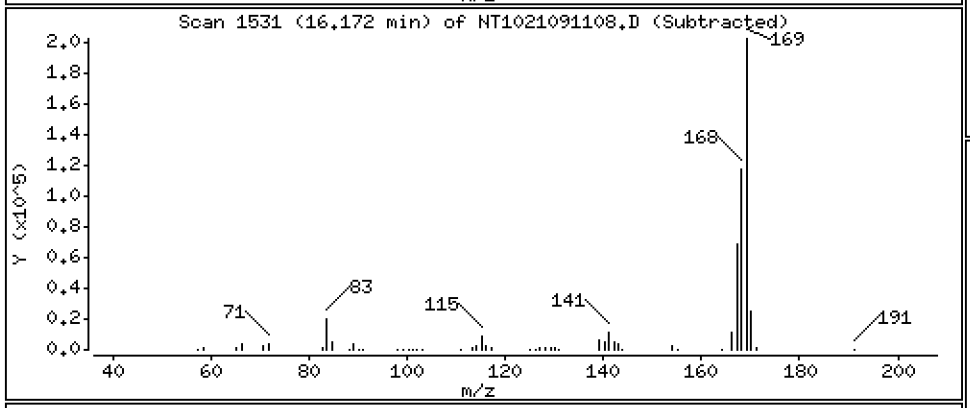
Sample Info: BJH0655-BS1

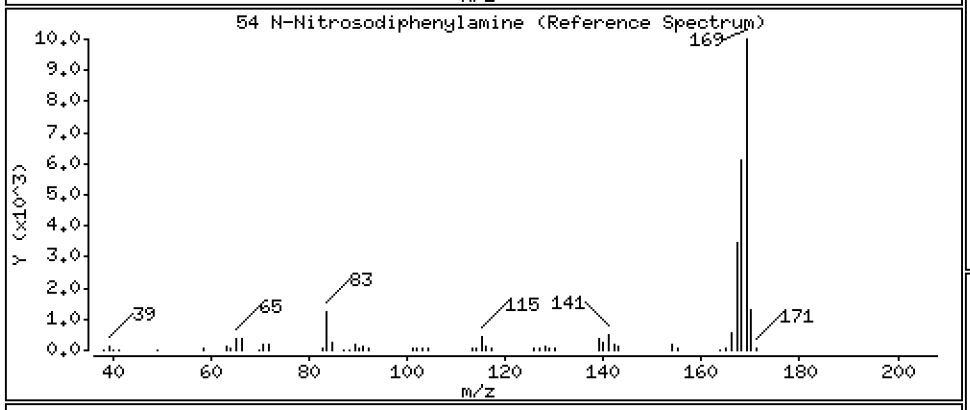
Operator: VTS

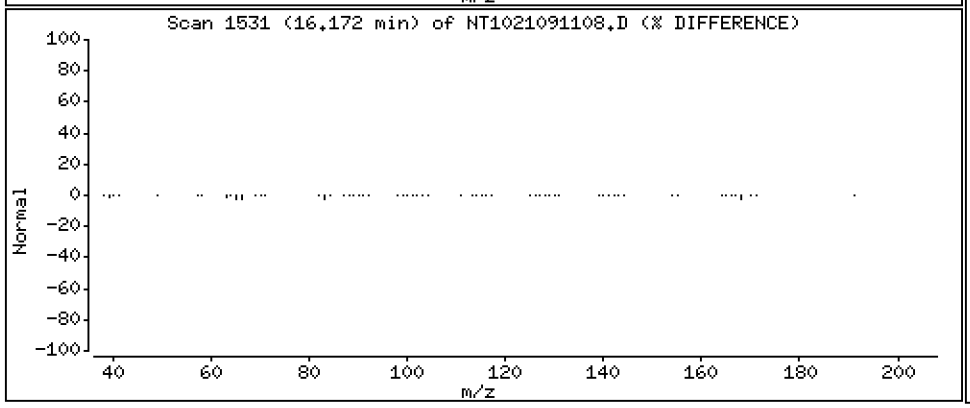
Column phase: ZB-5msi Column diameter: 0.25

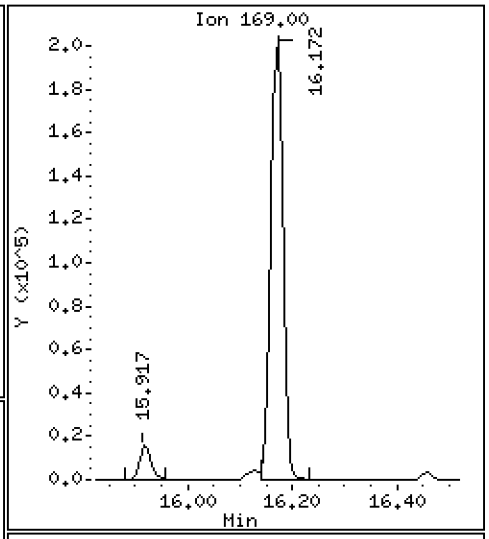
54 N-Nitrosodiphenylamine Concentration: 4.493 ug/mL

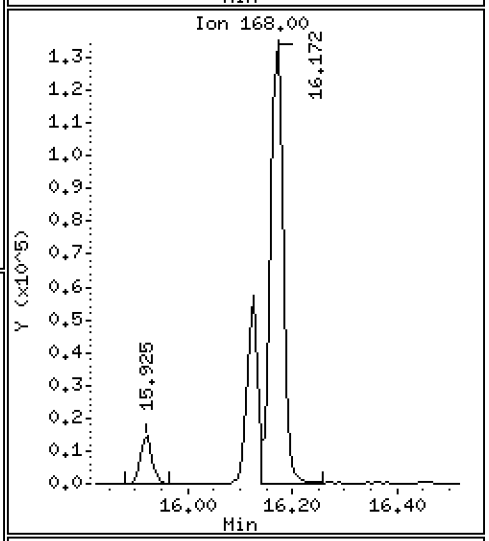


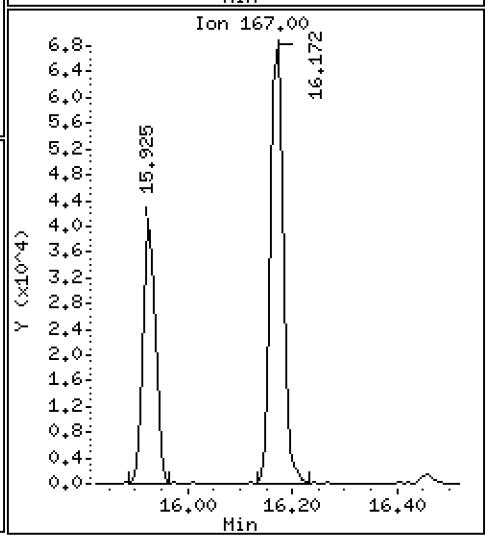












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

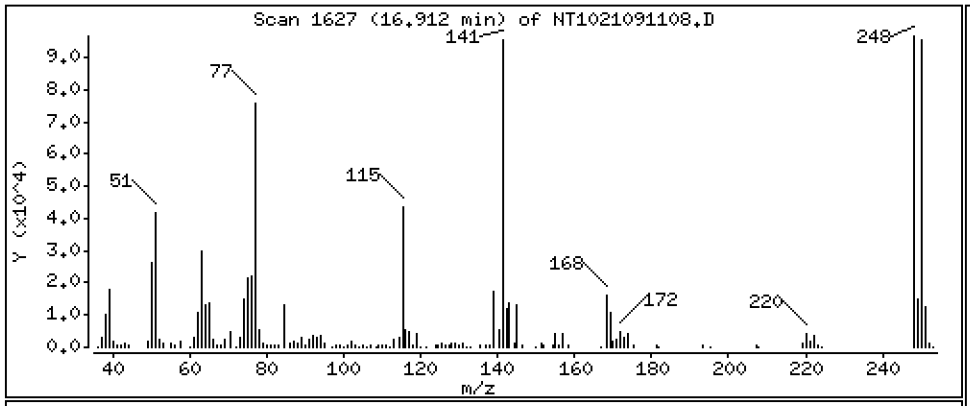
Operator: VTS

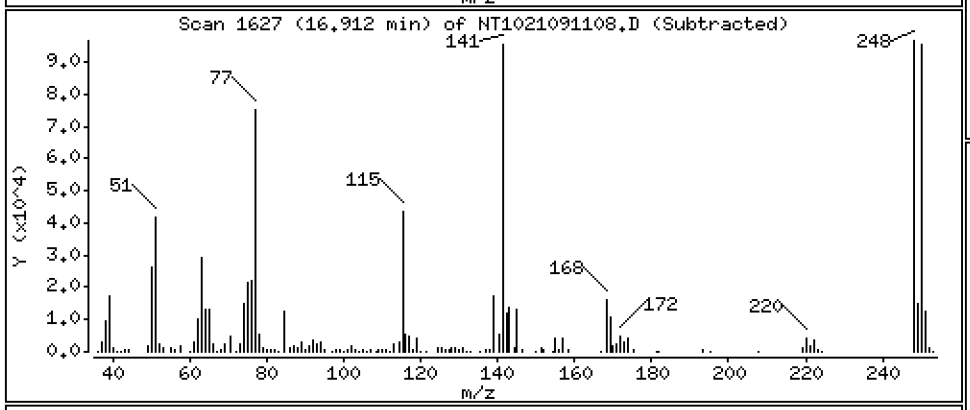
Column phase: ZB-5msi

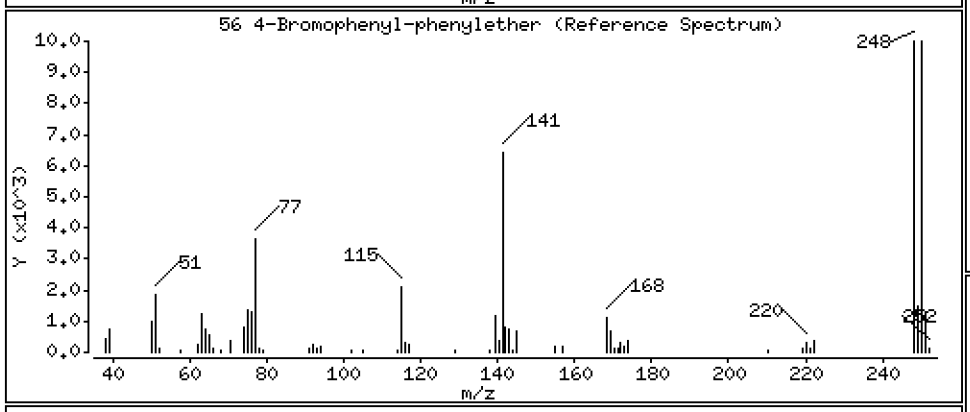
Column diameter: 0.25

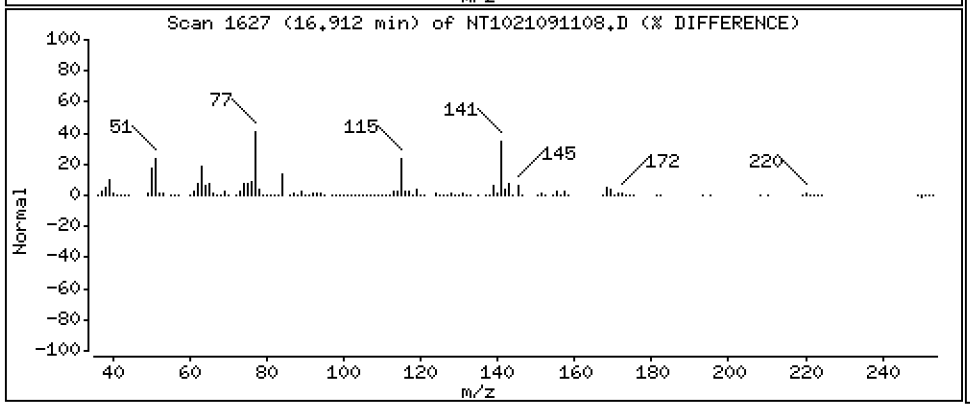
56 4-Bromophenyl-phenylether

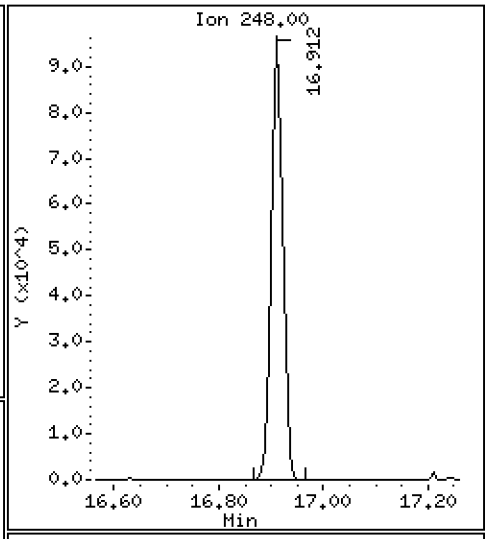
Concentration: 5.206 ug/mL

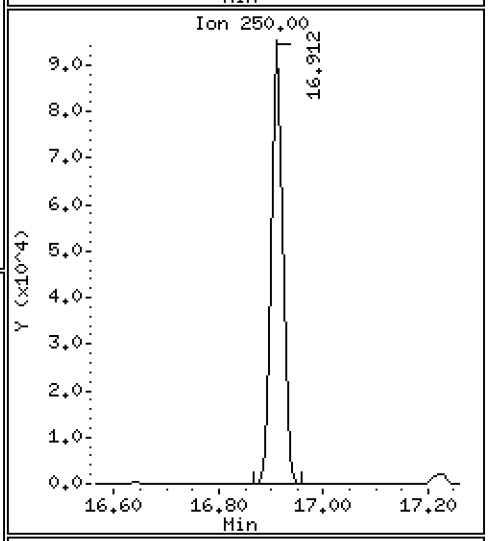


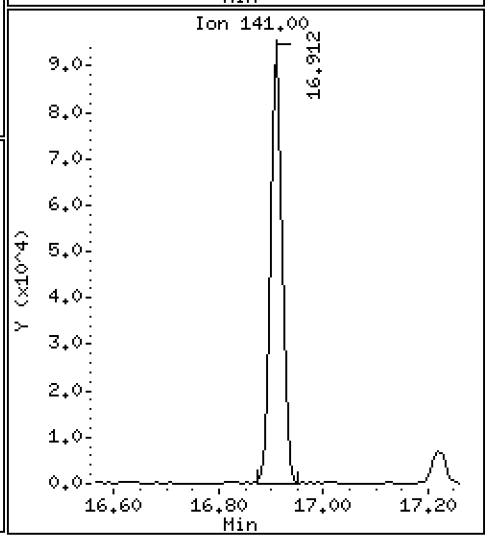












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

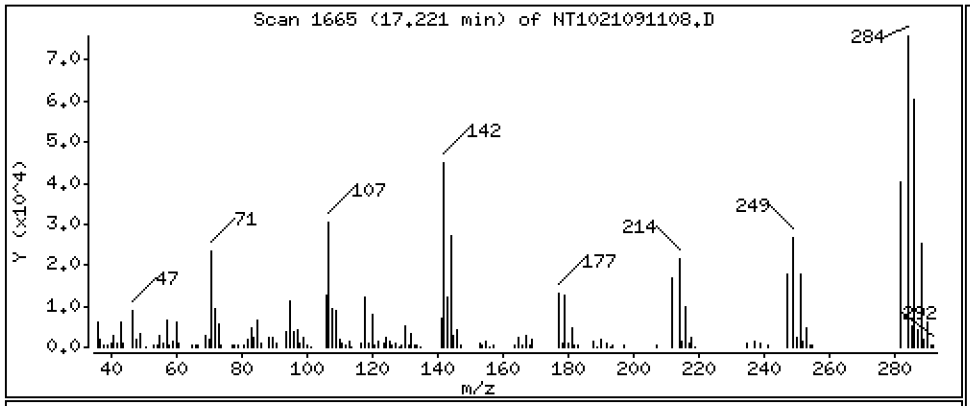
Operator: VTS

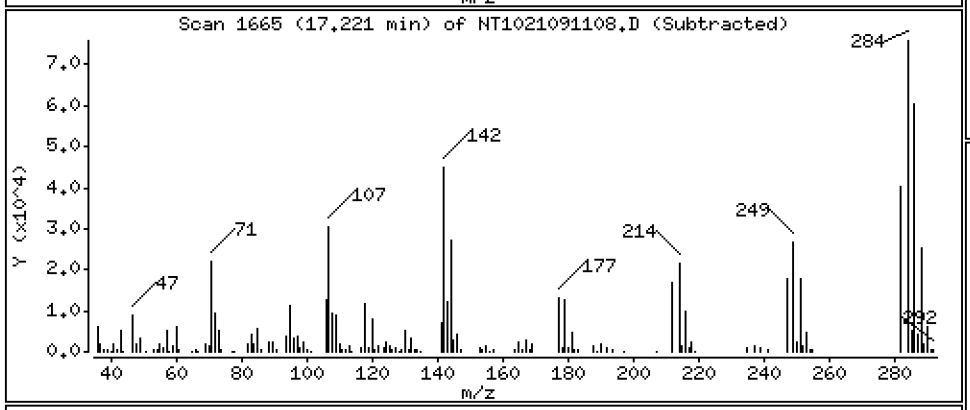
Column phase: ZB-5msi

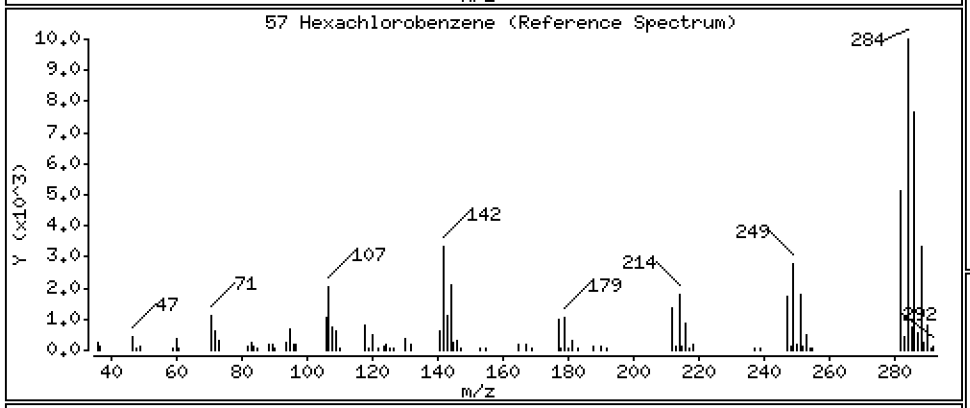
Column diameter: 0.25

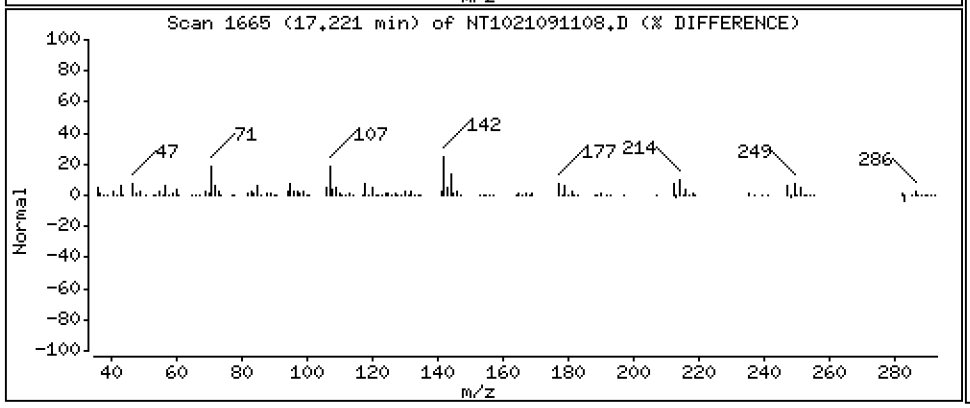
57 Hexachlorobenzene

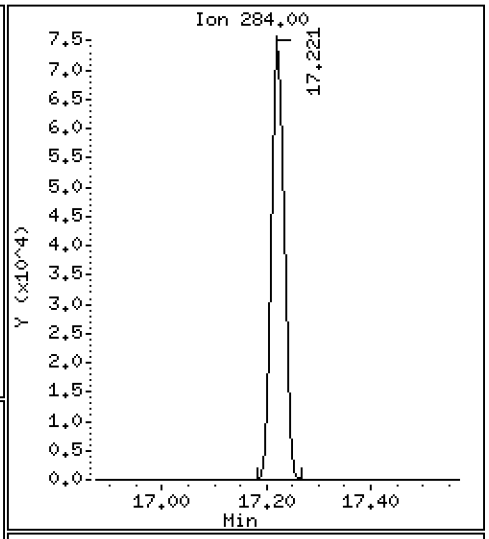
Concentration: 4.751 ug/mL

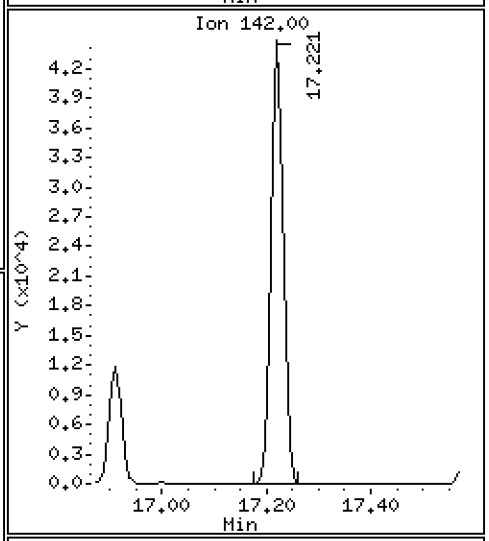


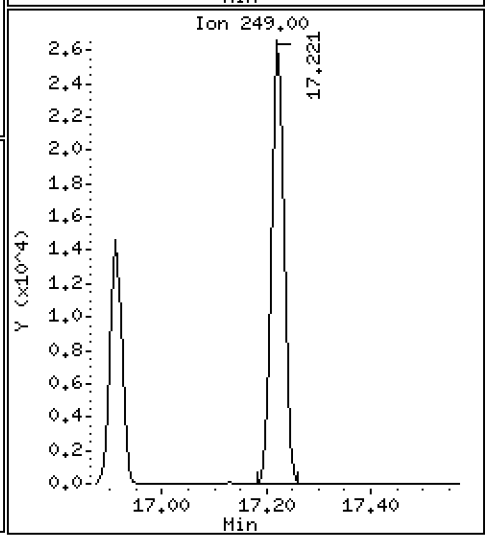












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

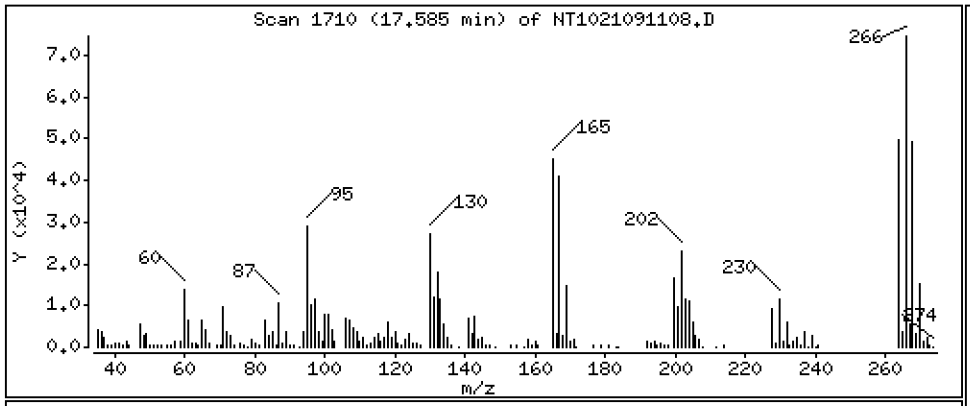
Operator: VTS

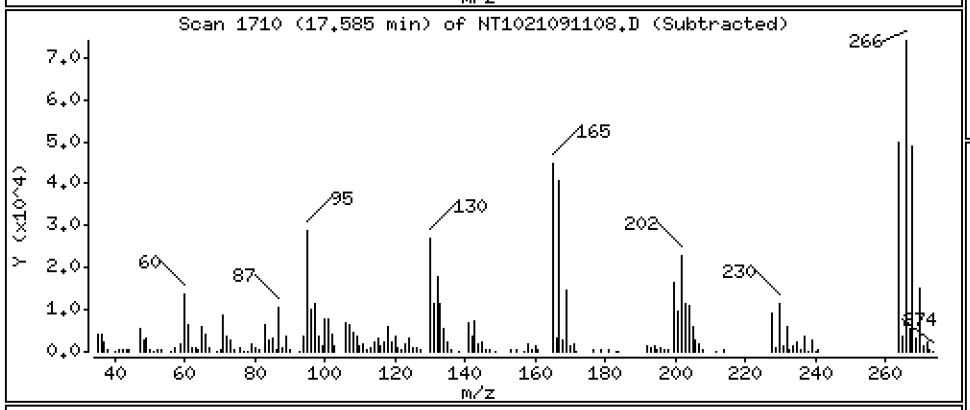
Column phase: ZB-5msi

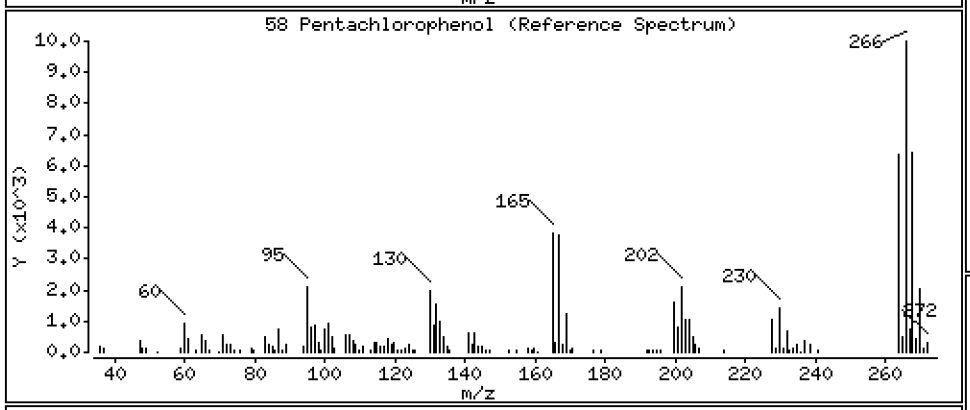
Column diameter: 0.25

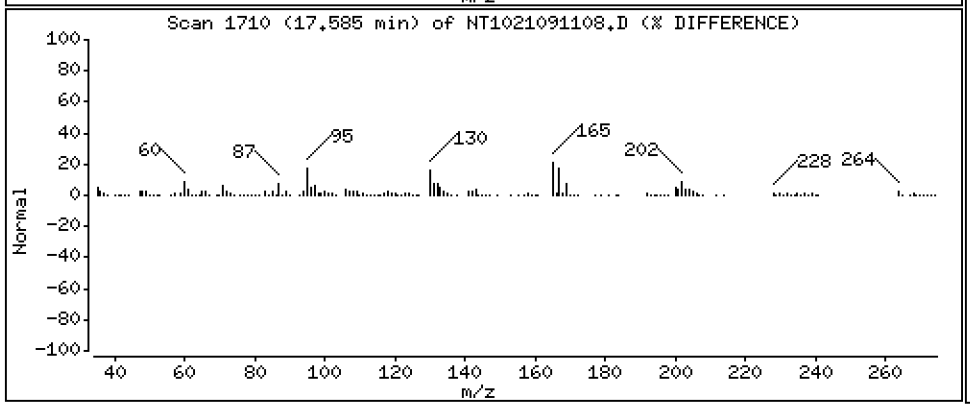
58 Pentachlorophenol

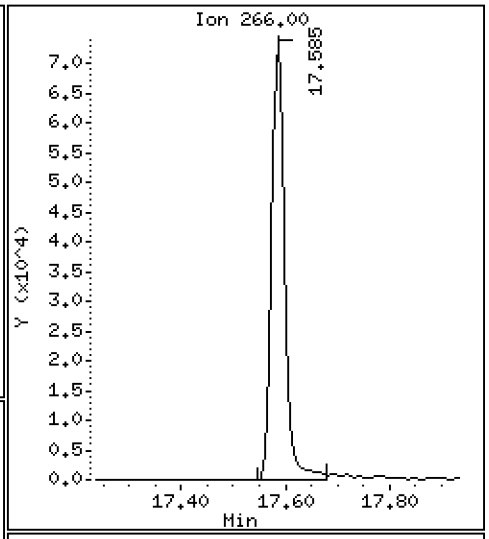
Concentration: 12.19 ug/mL

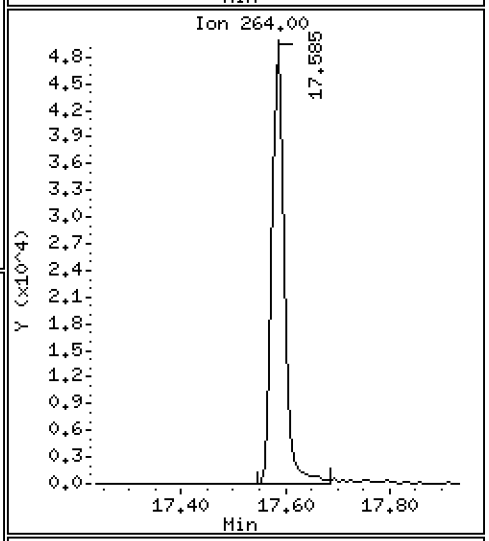


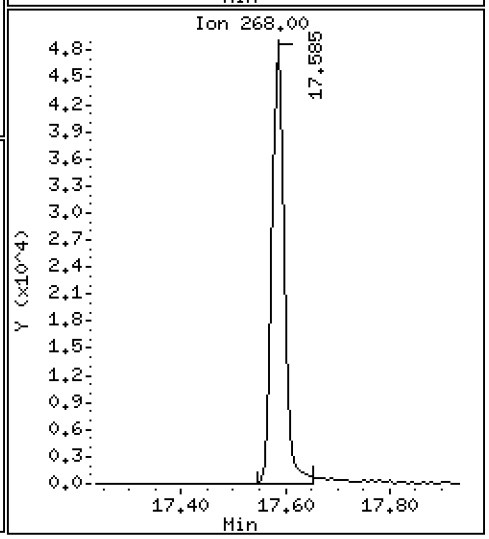












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

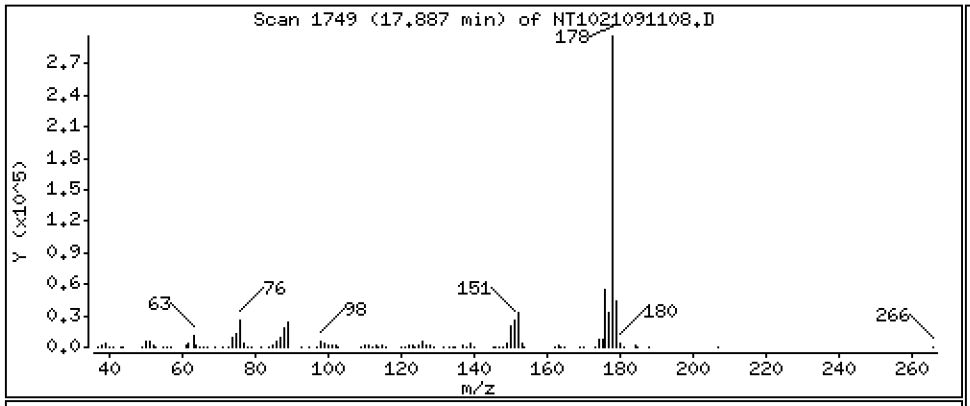
Operator: VTS

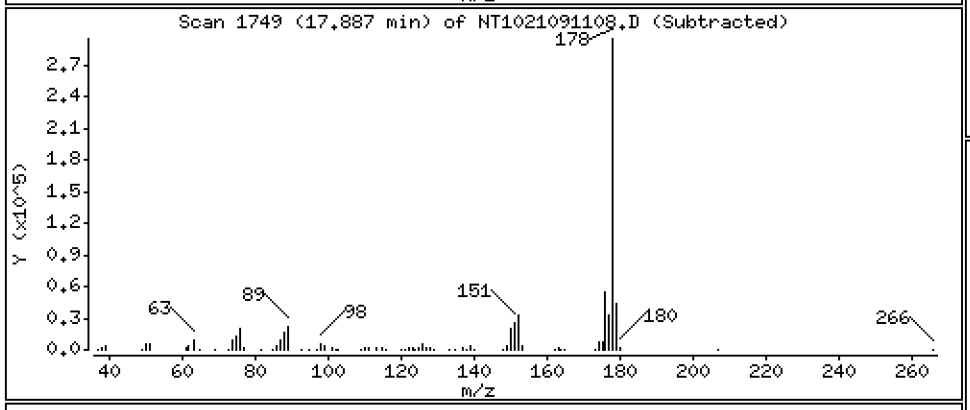
Column phase: ZB-5msi

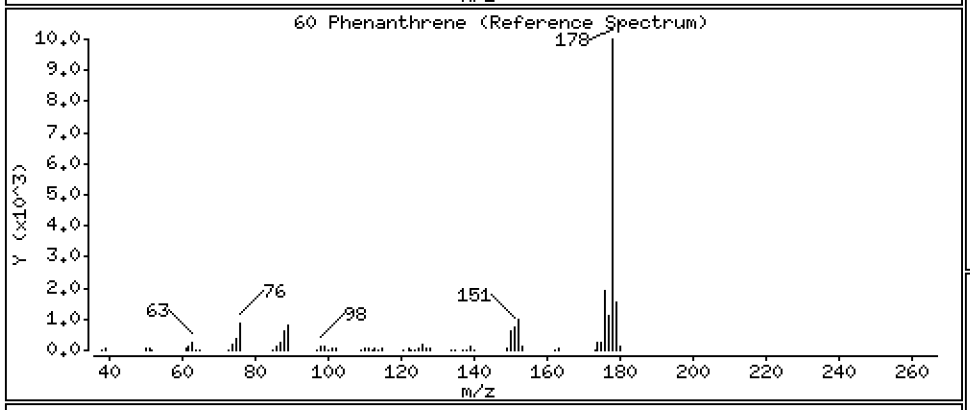
Column diameter: 0.25

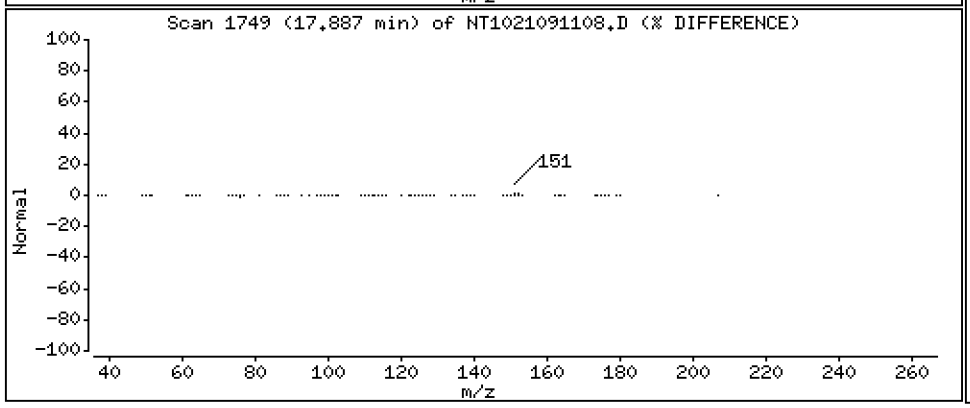
60 Phenanthrene

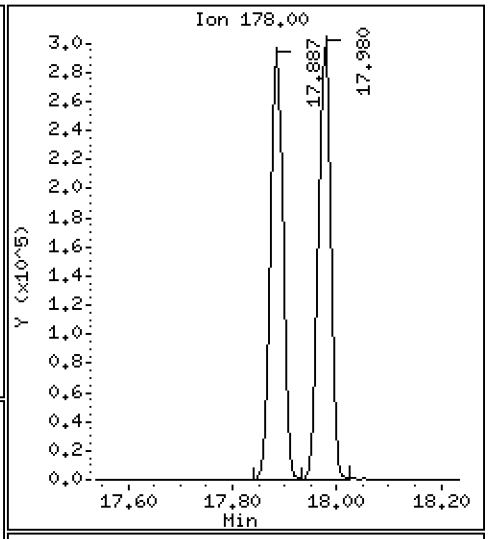
Concentration: 4.142 ug/mL

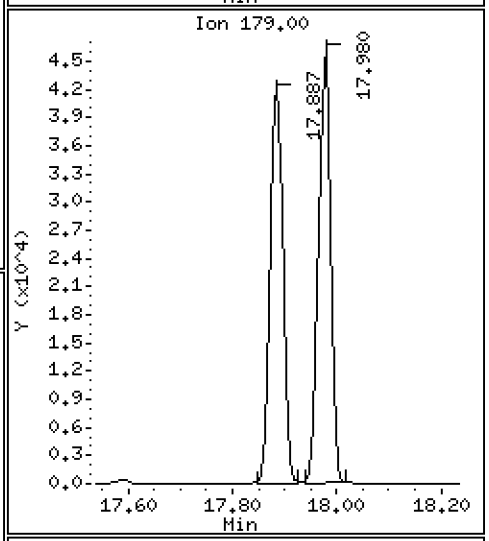


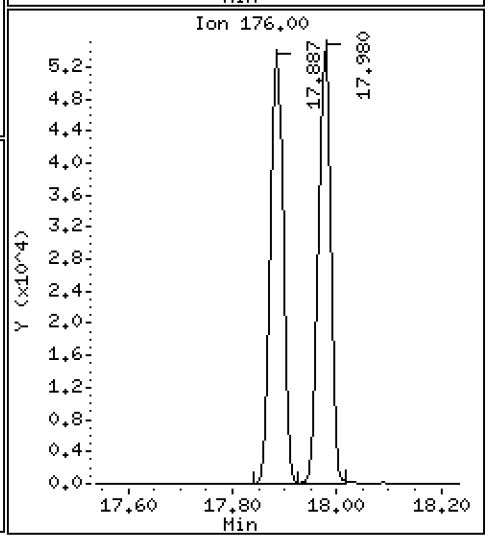












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

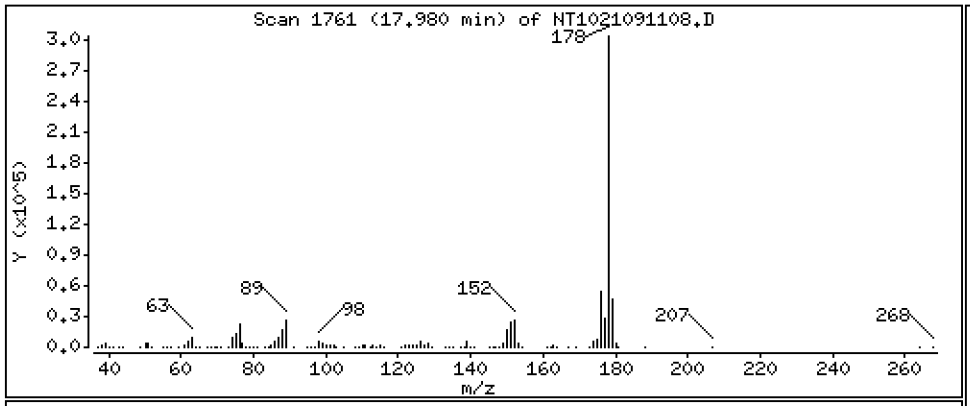
Operator: VTS

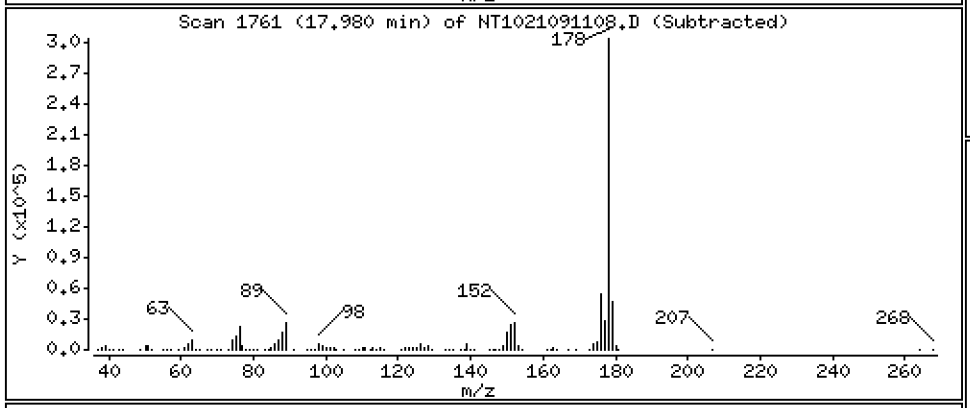
Column phase: ZB-5msi

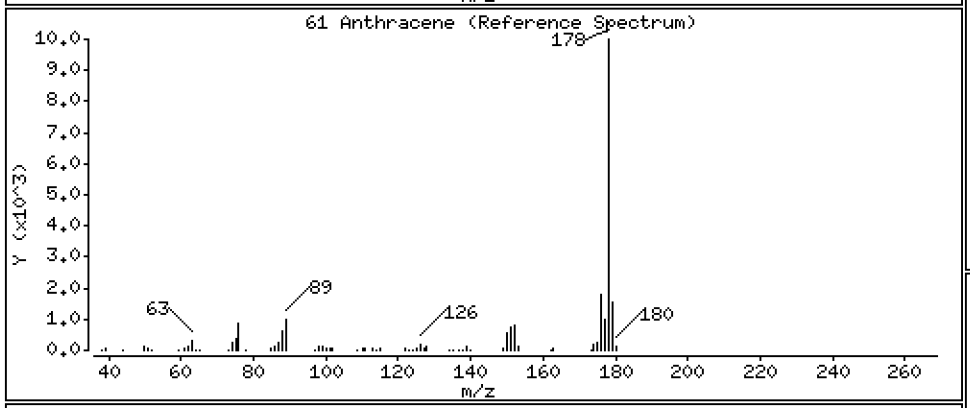
Column diameter: 0.25

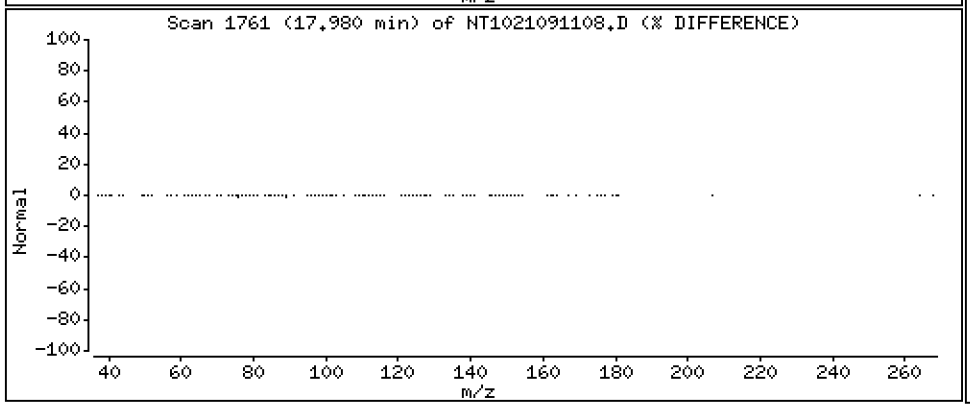
61 Anthracene

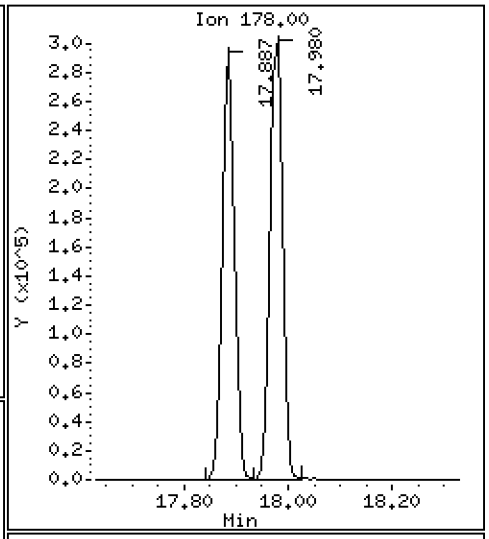
Concentration: 3.976 ug/mL

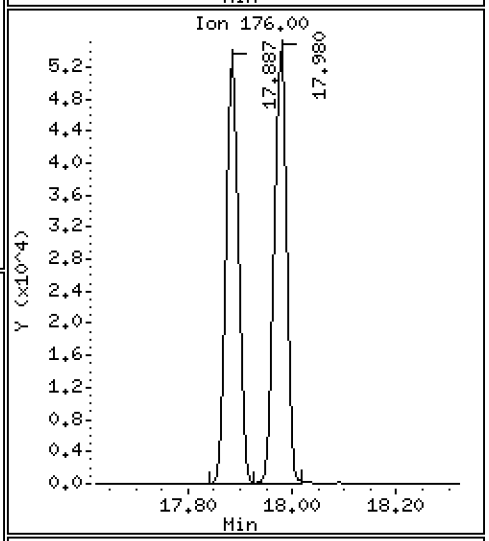


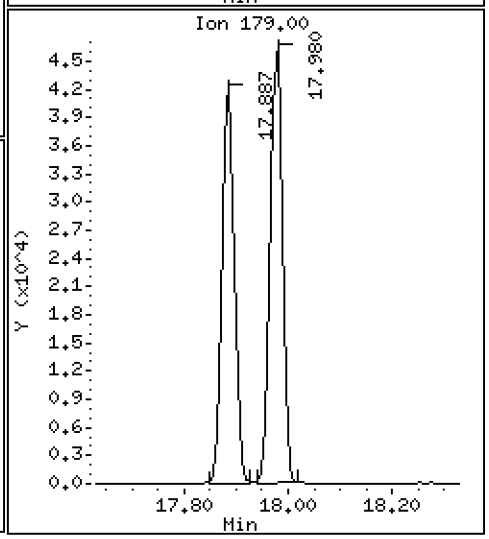












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

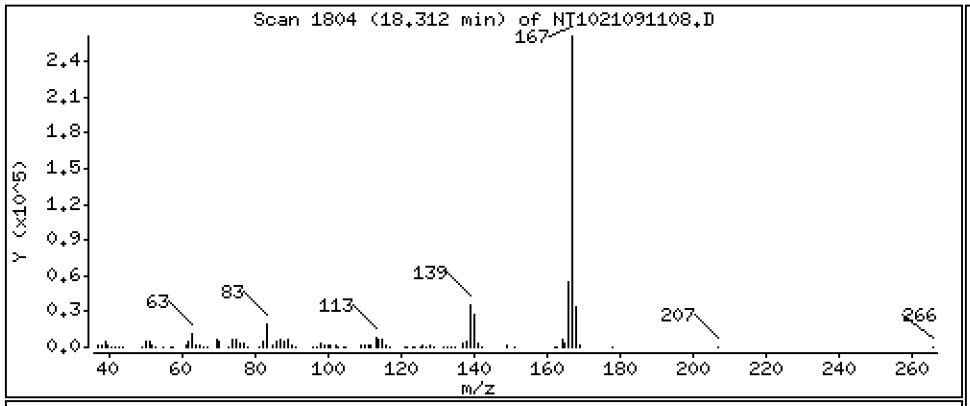
Operator: VTS

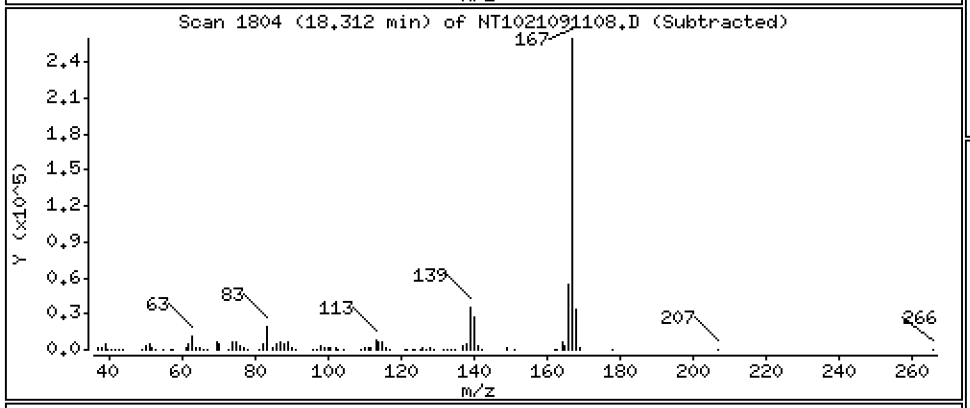
Column phase: ZB-5msi

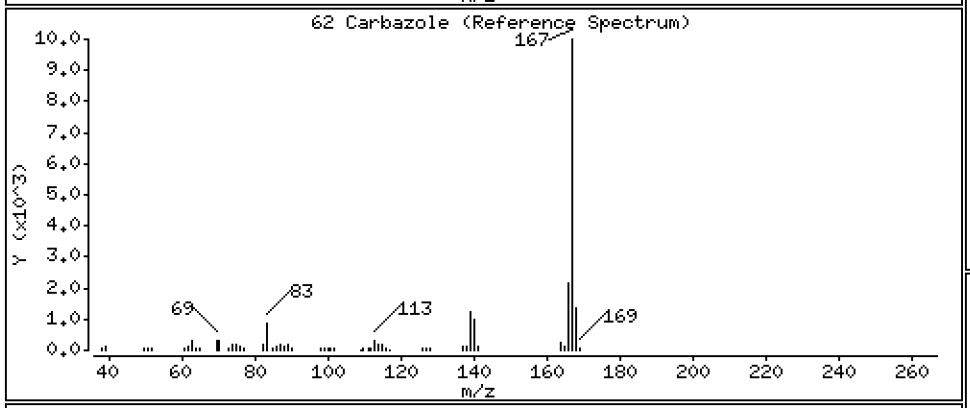
Column diameter: 0.25

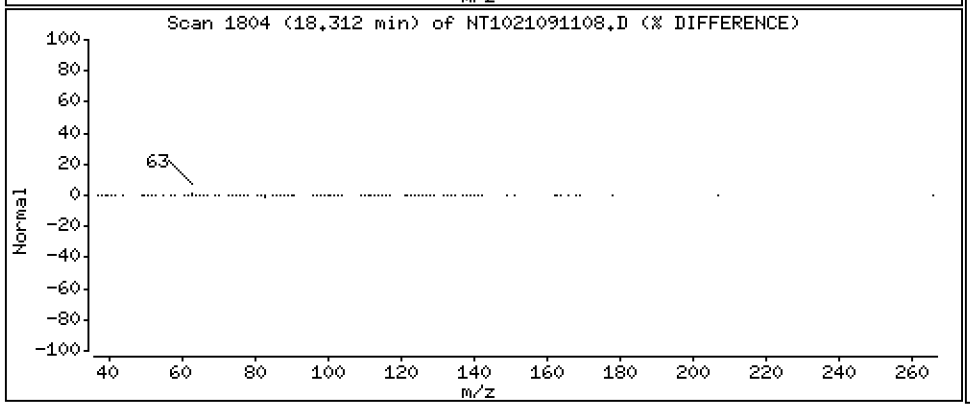
62 Carbazole

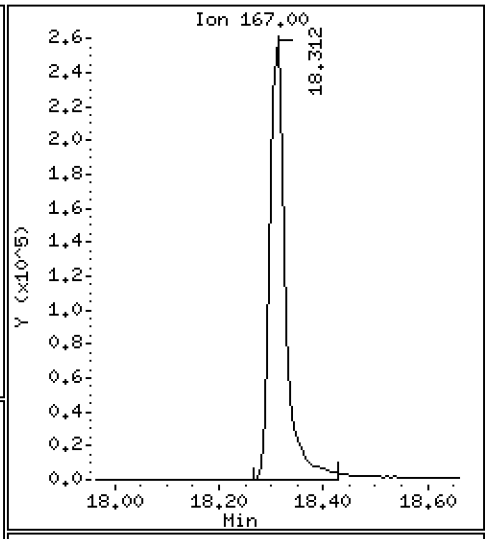
Concentration: 4.153 ug/mL

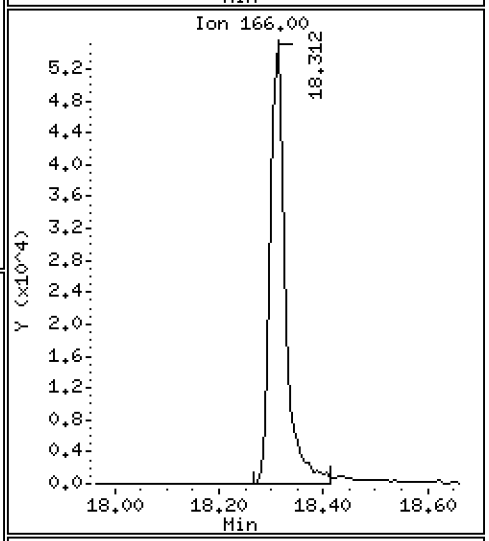


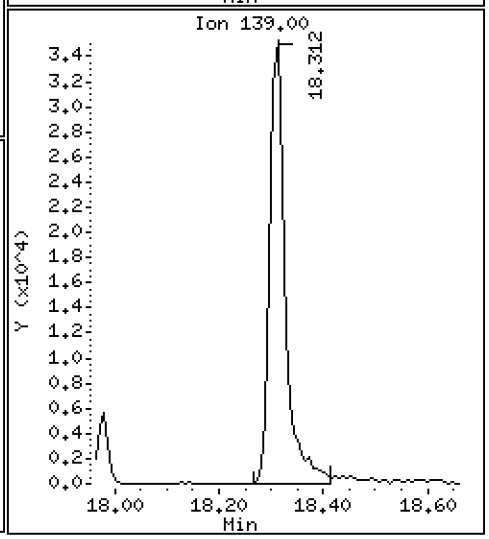












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

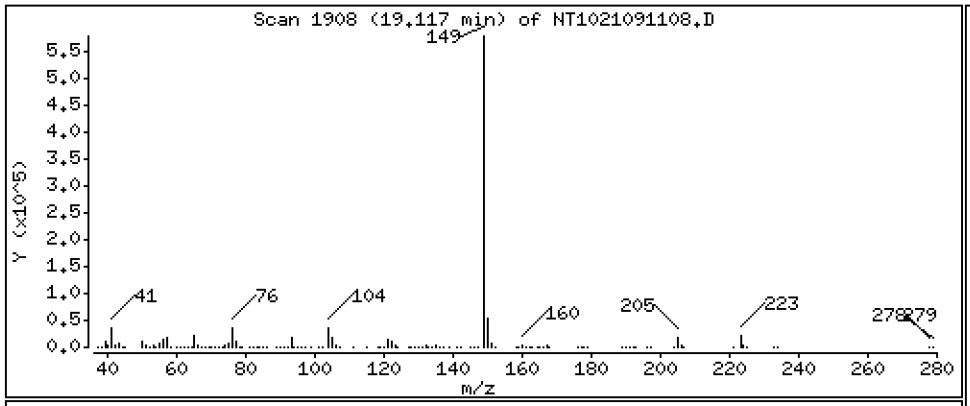
Operator: VTS

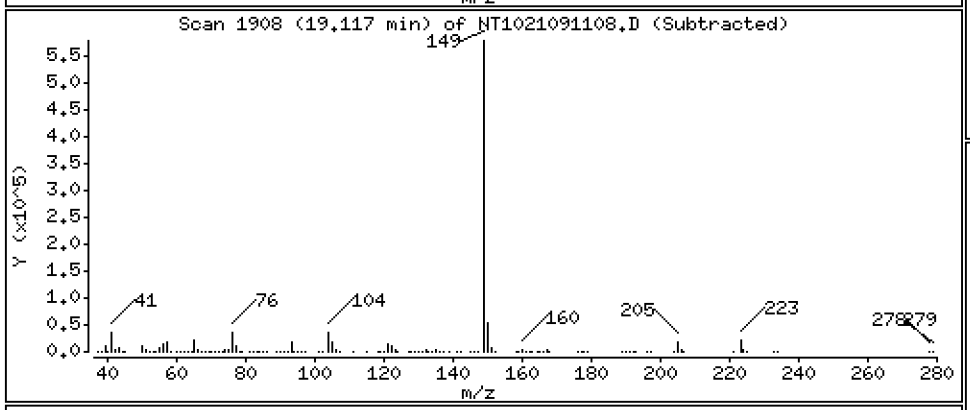
Column phase: ZB-5msi

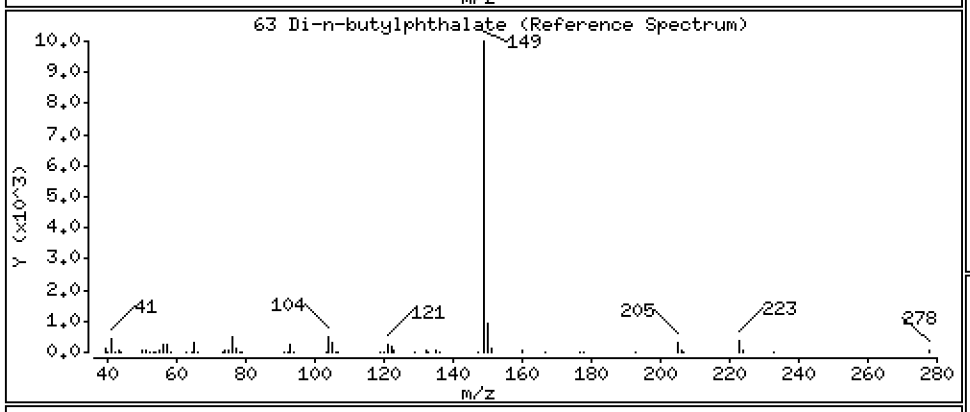
Column diameter: 0.25

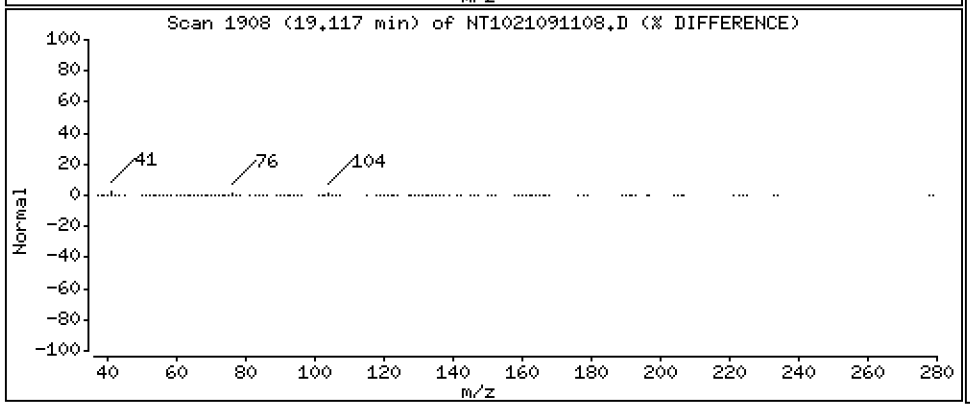
63 Di-n-butylphthalate

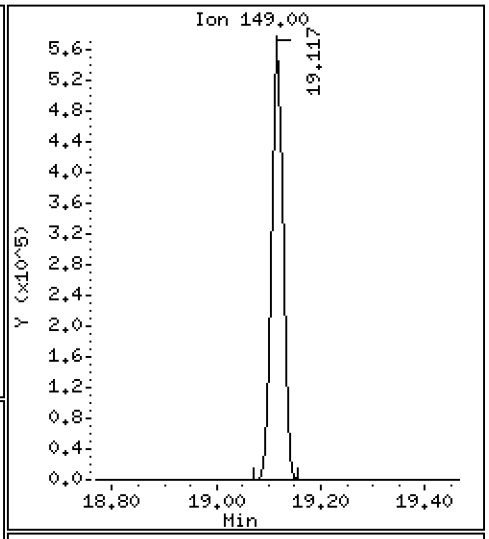
Concentration: 5.253 ug/mL

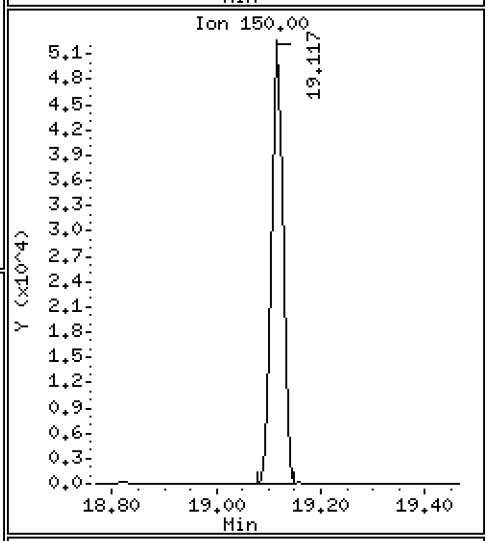


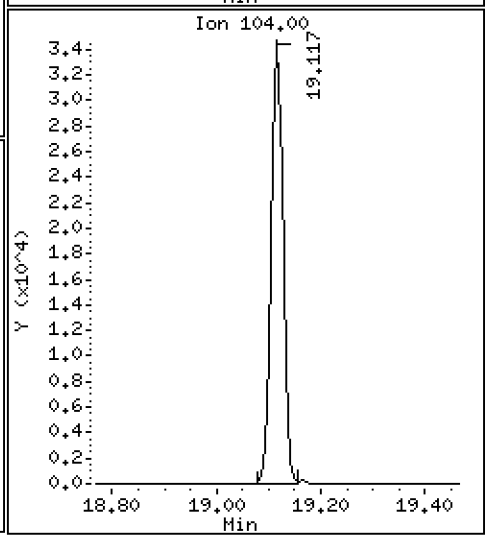












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

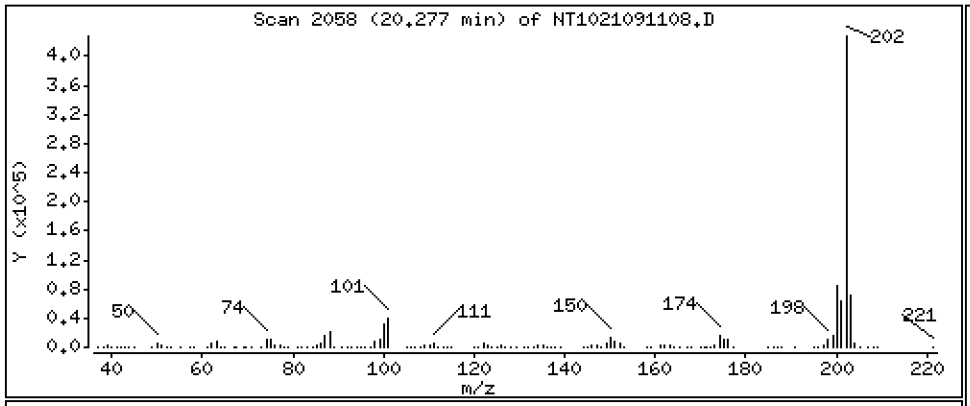
Operator: VTS

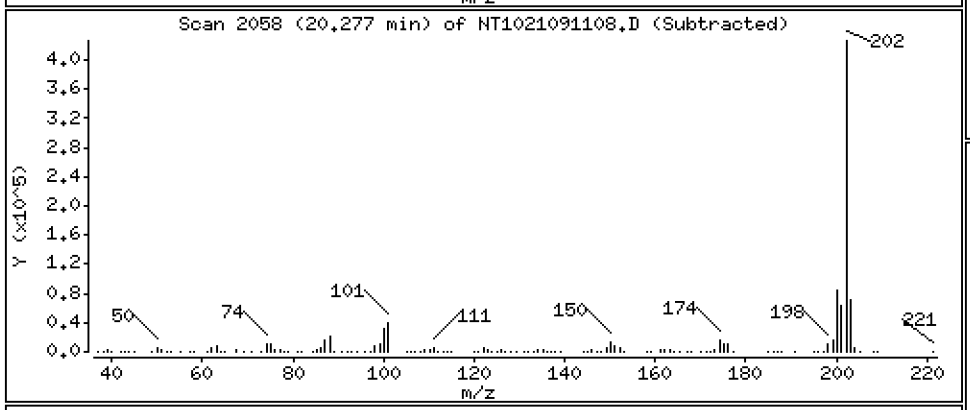
Column phase: ZB-5msi

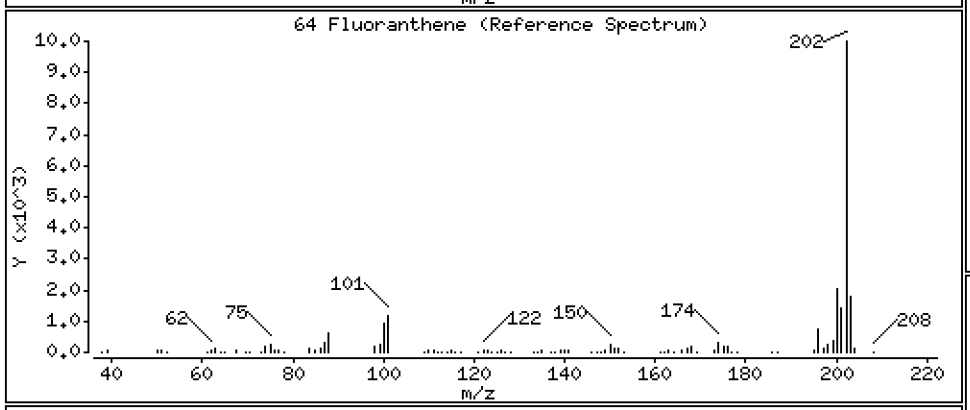
Column diameter: 0.25

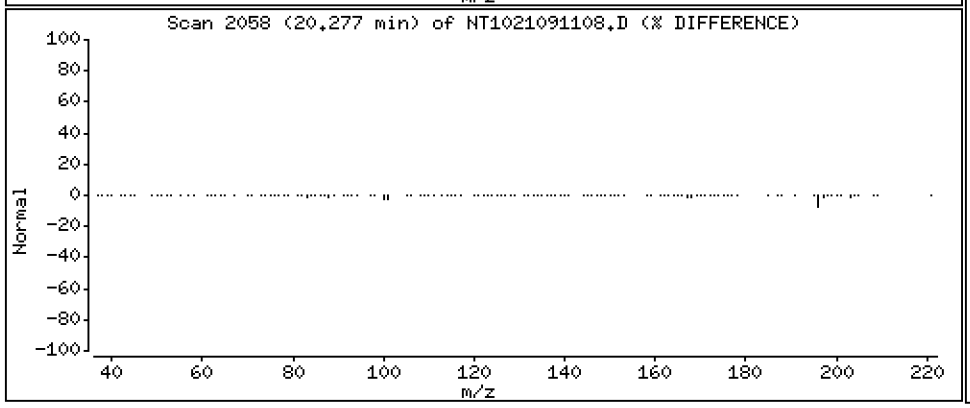
64 Fluoranthene

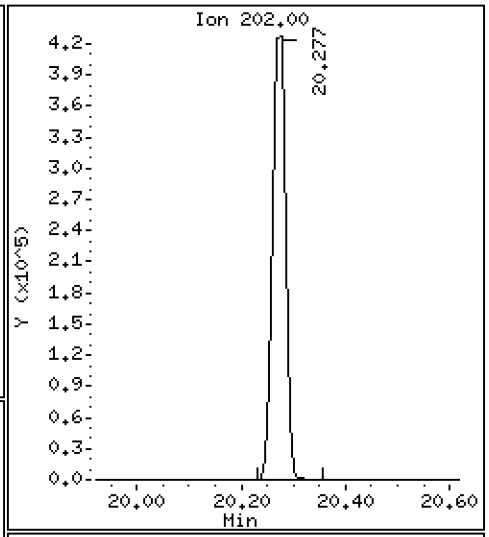
Concentration: 5.839 ug/mL

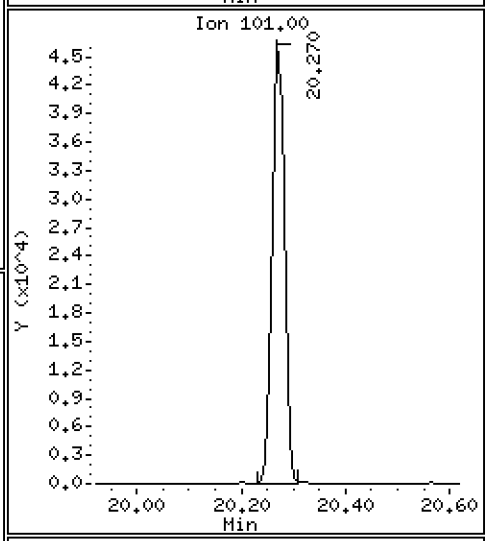


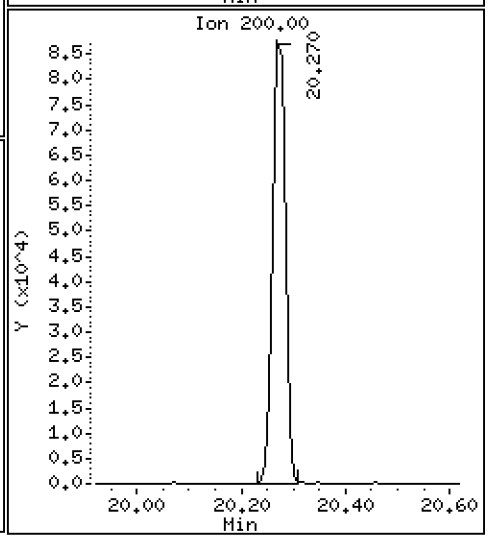












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

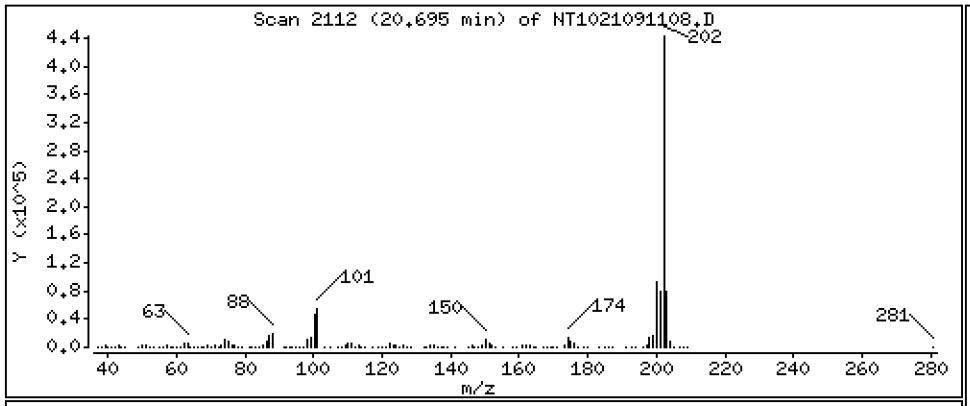
Operator: VTS

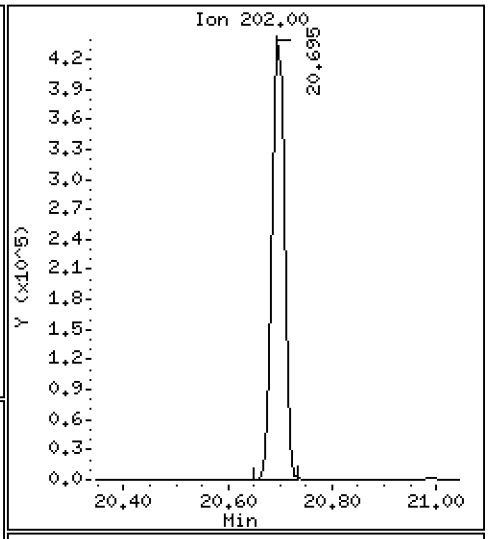
Column phase: ZB-5msi

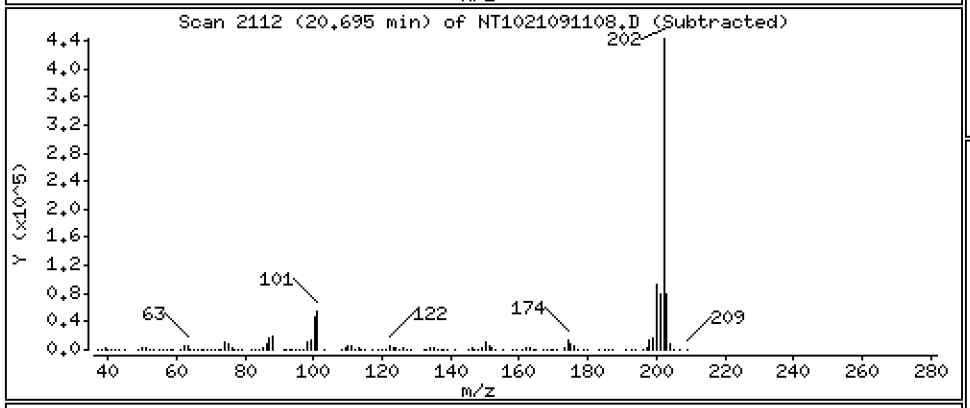
Column diameter: 0.25

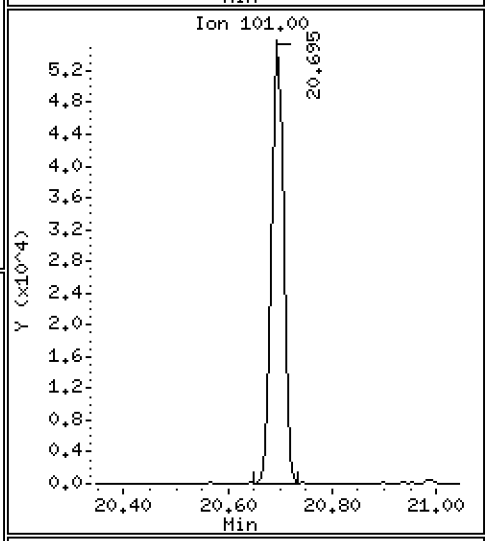
65 Pyrene

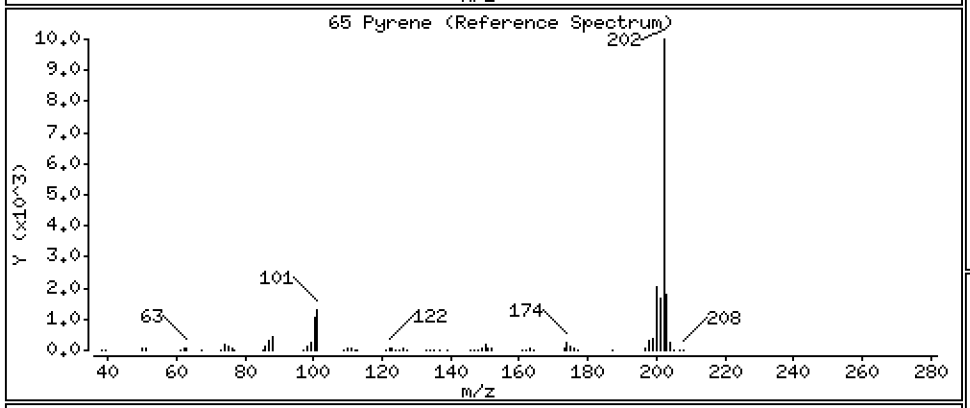
Concentration: 5.578 ug/mL

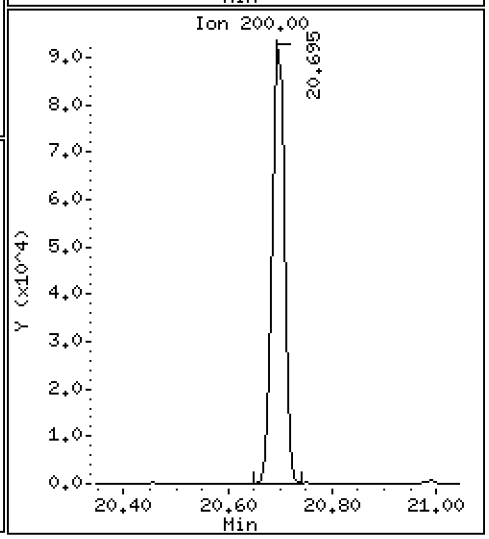


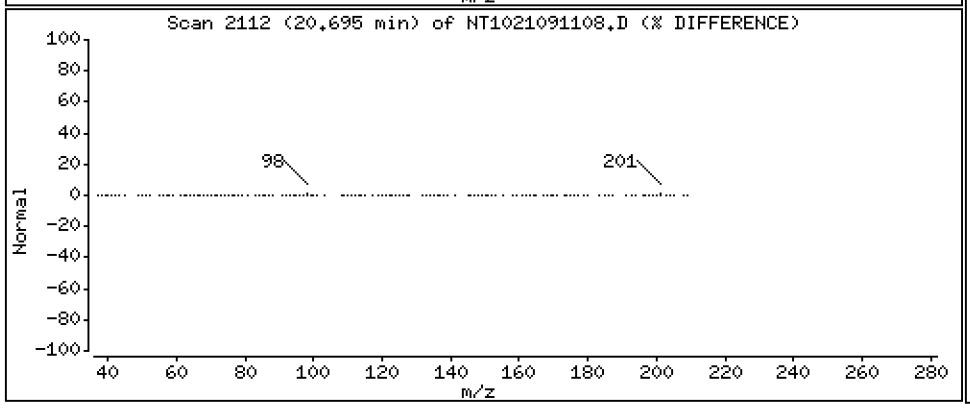












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

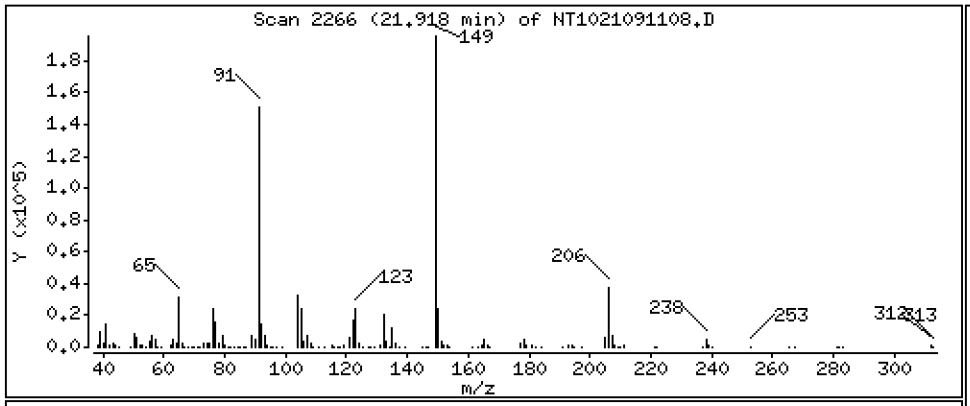
Operator: VTS

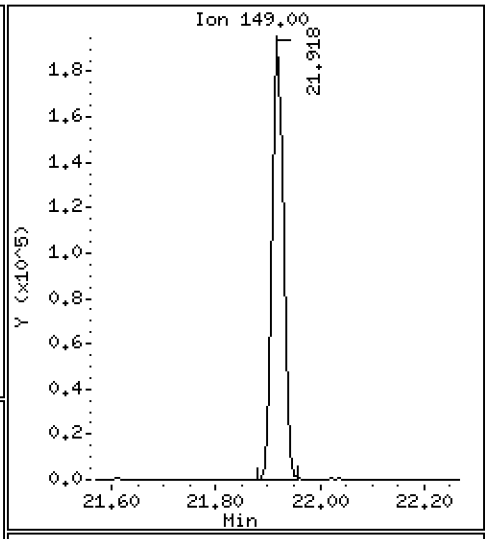
Column phase: ZB-5msi

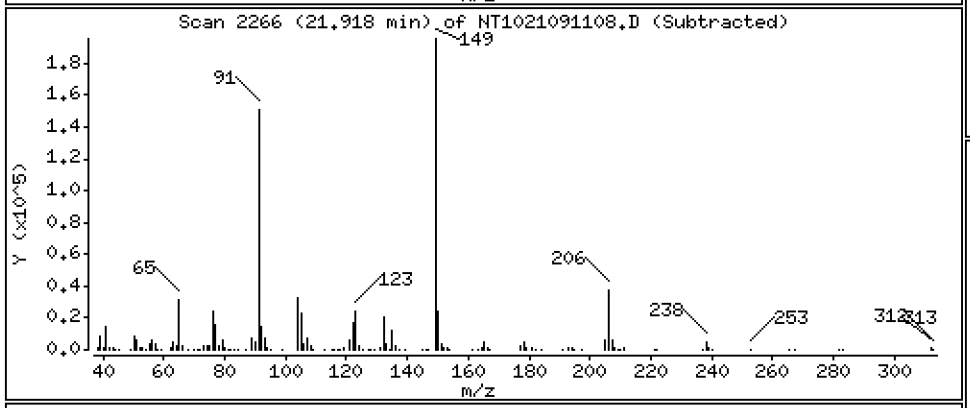
Column diameter: 0.25

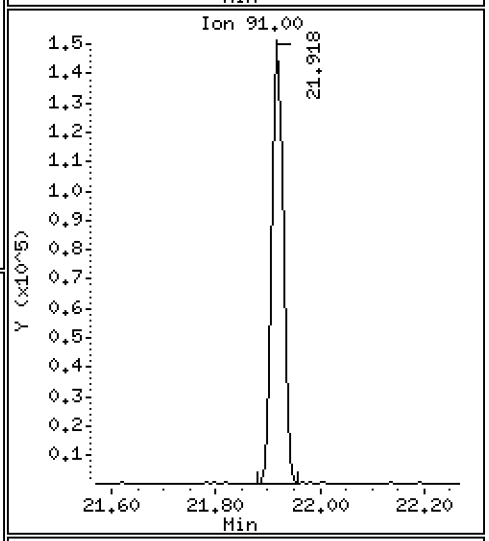
67 Butylbenzylphthalate

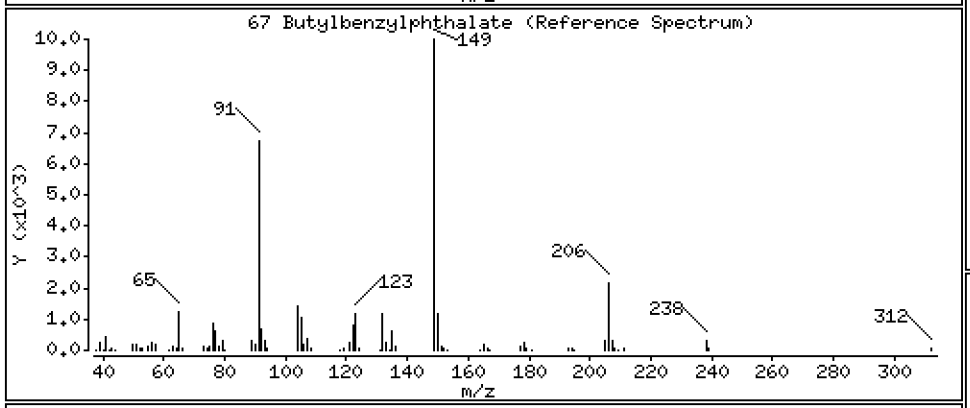
Concentration: 5.604 ug/mL

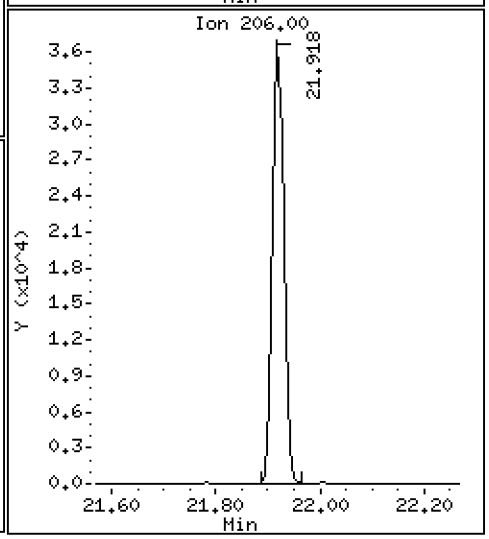


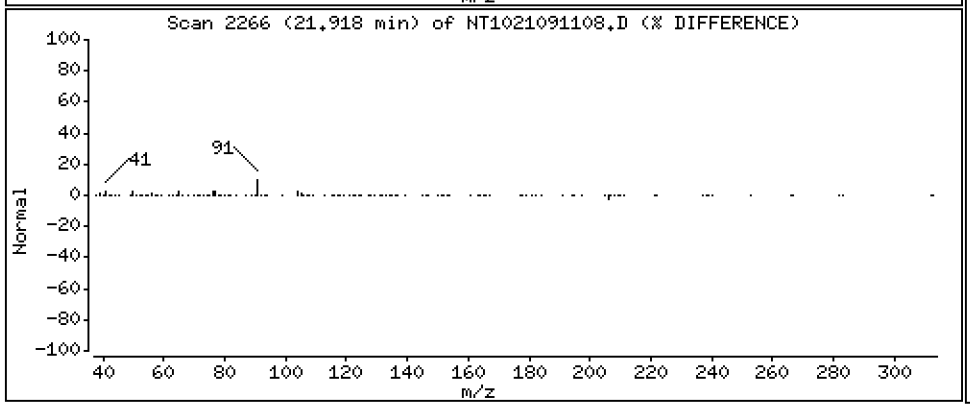












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

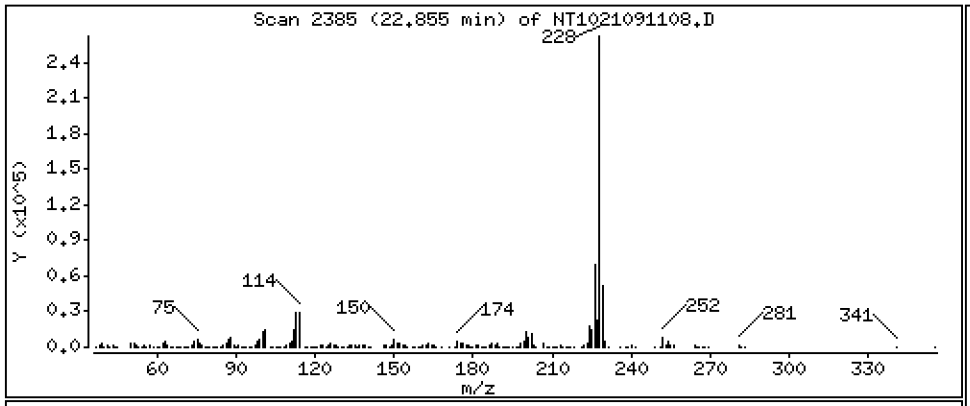
Operator: VTS

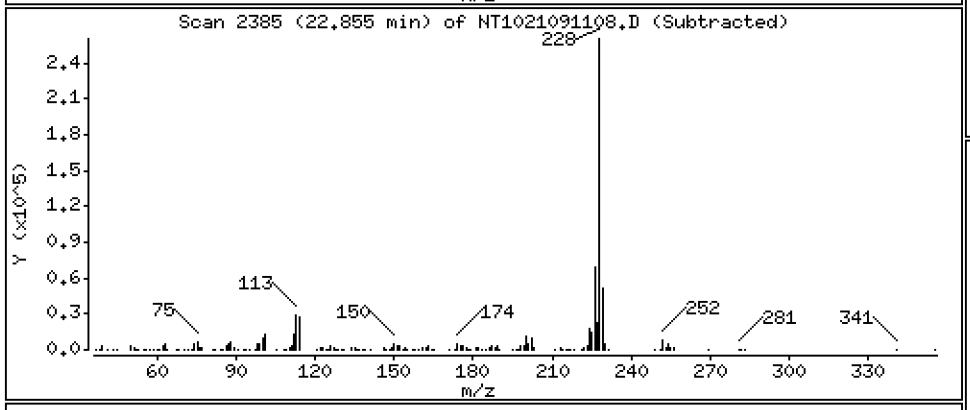
Column phase: ZB-5msi

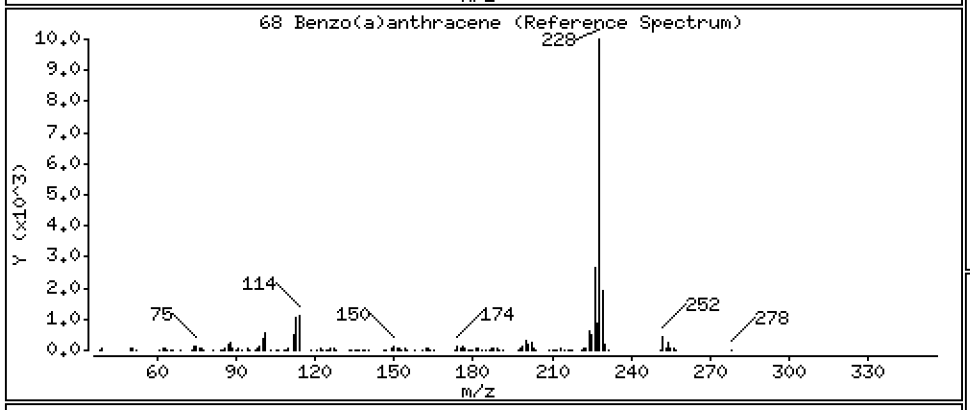
Column diameter: 0.25

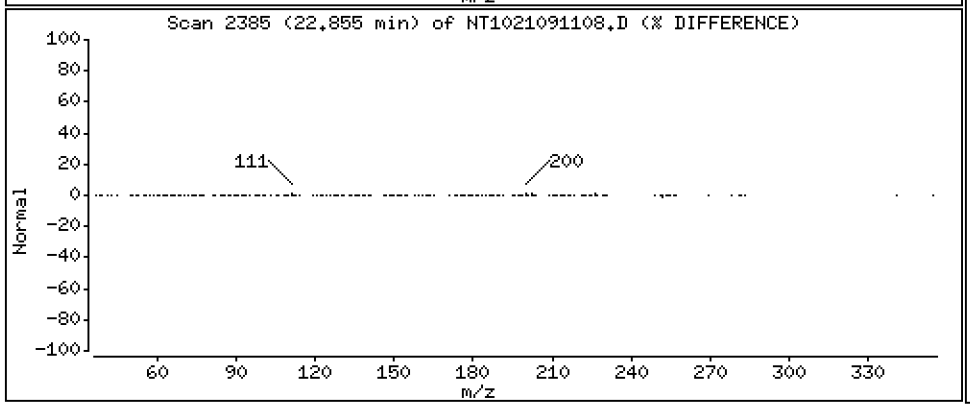
68 Benzo(a)anthracene

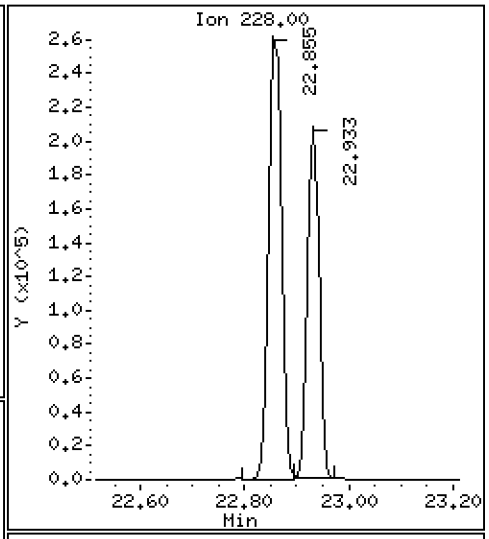
Concentration: 4.440 ug/mL

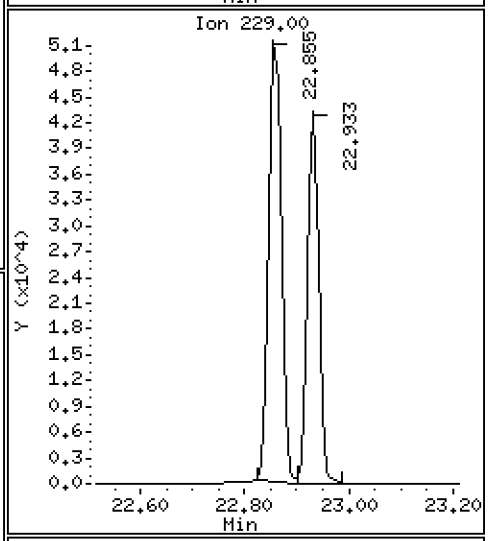


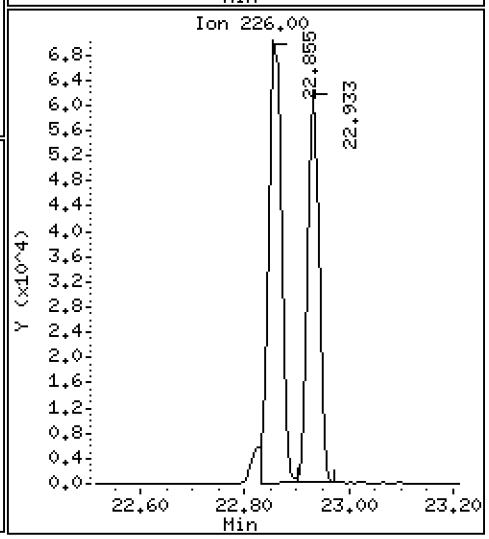












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

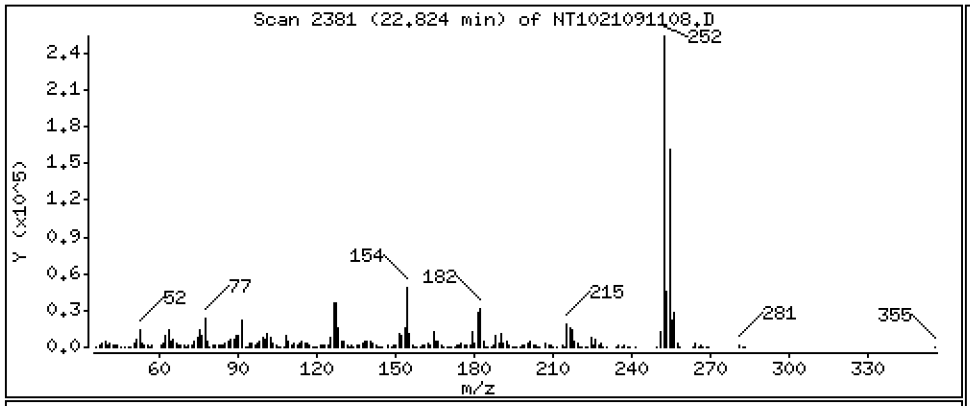
Operator: VTS

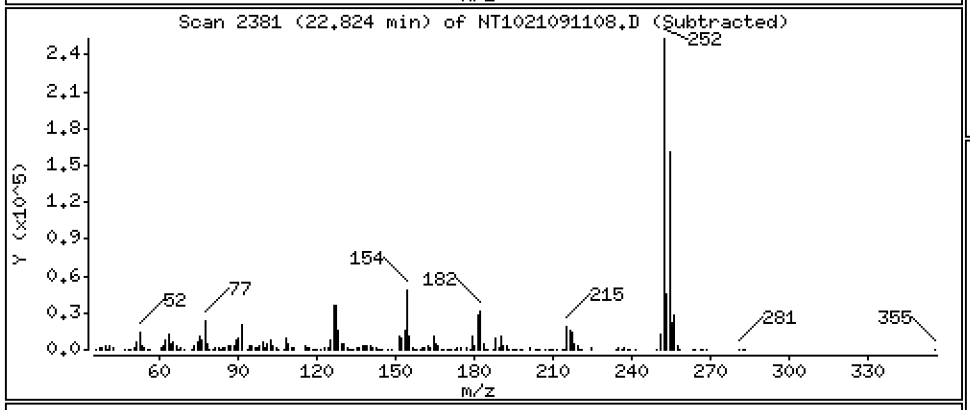
Column phase: ZB-5msi

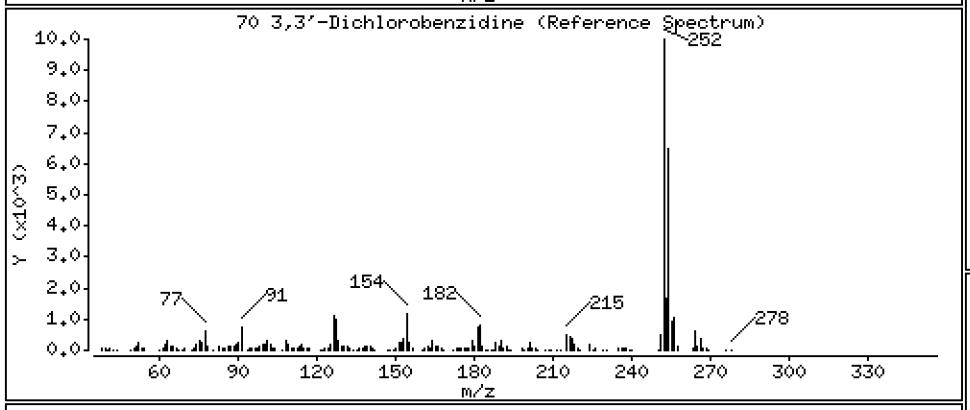
Column diameter: 0.25

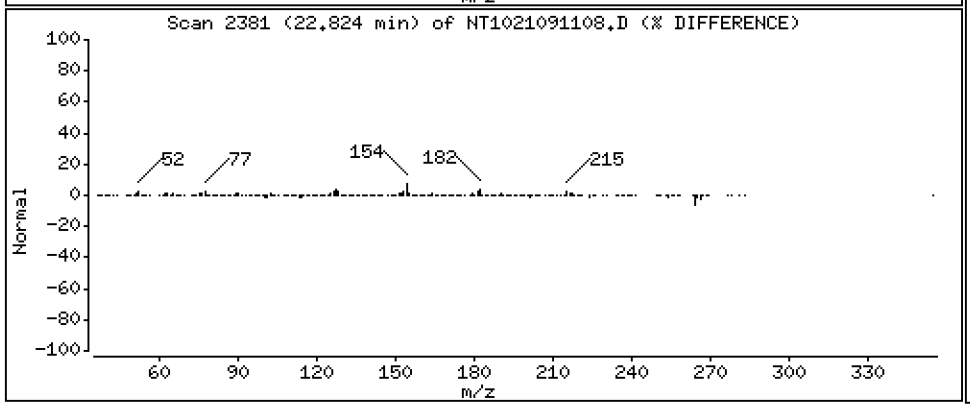
70 3,3'-Dichlorobenzidine

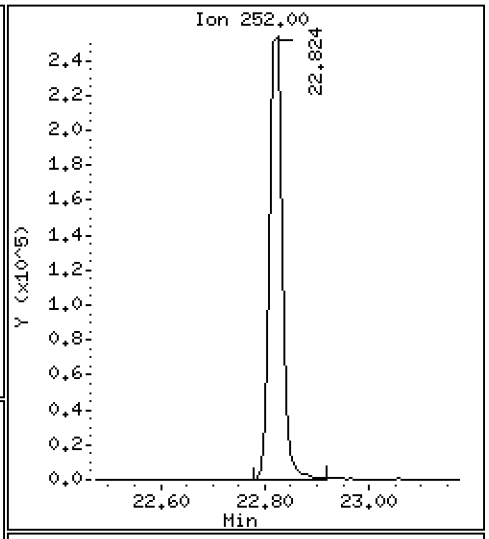
Concentration: 10.65 ug/mL

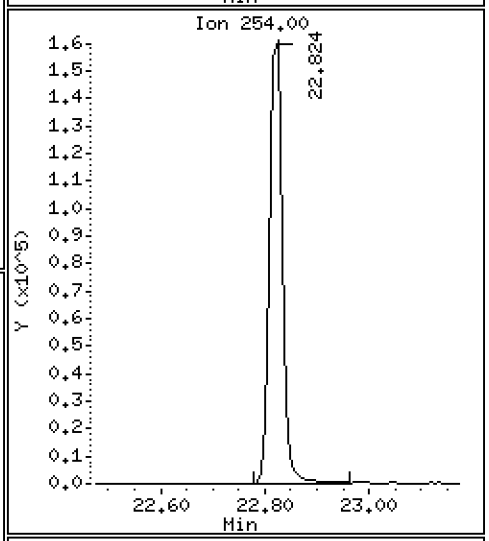


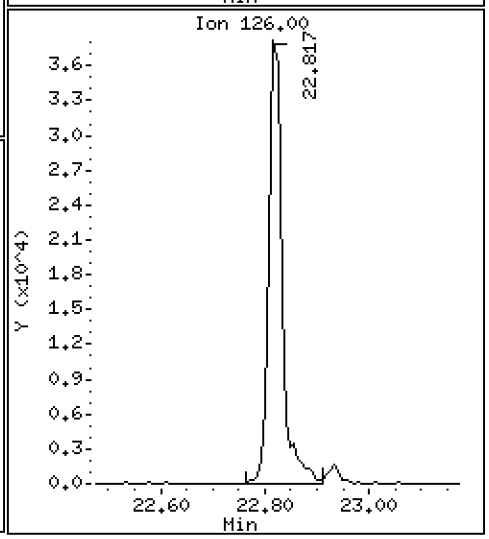












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

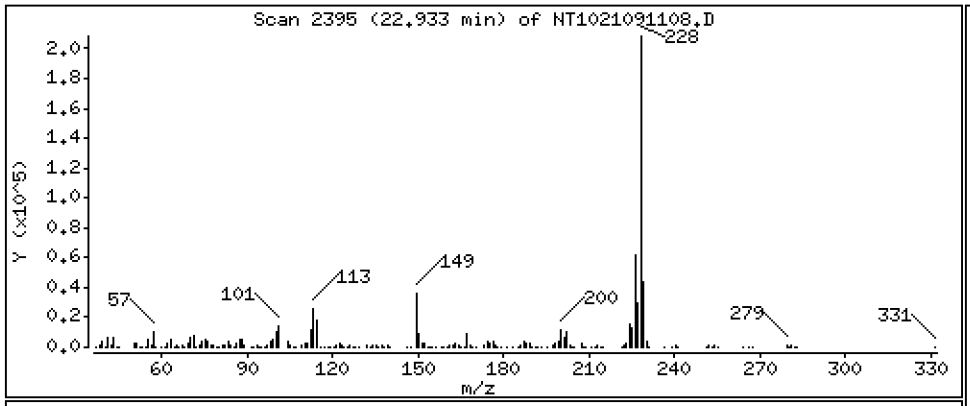
Operator: VTS

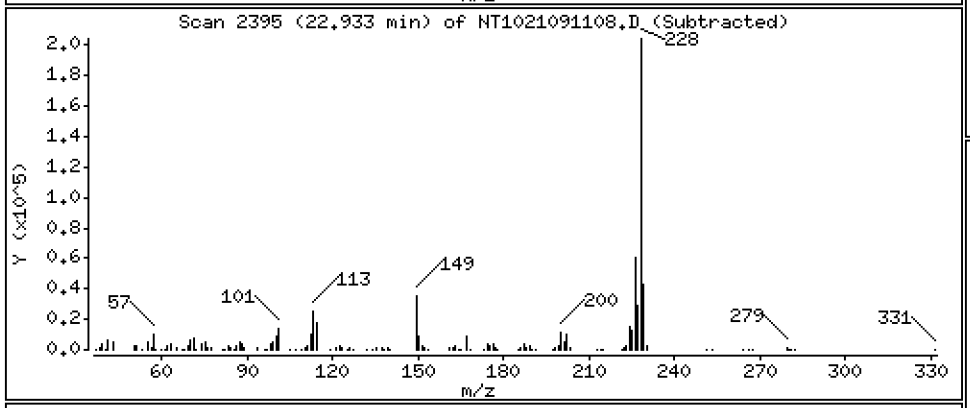
Column phase: ZB-5msi

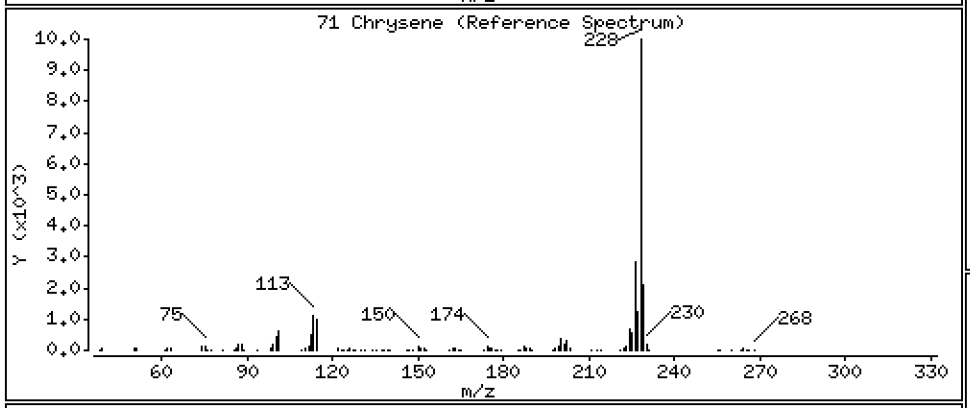
Column diameter: 0.25

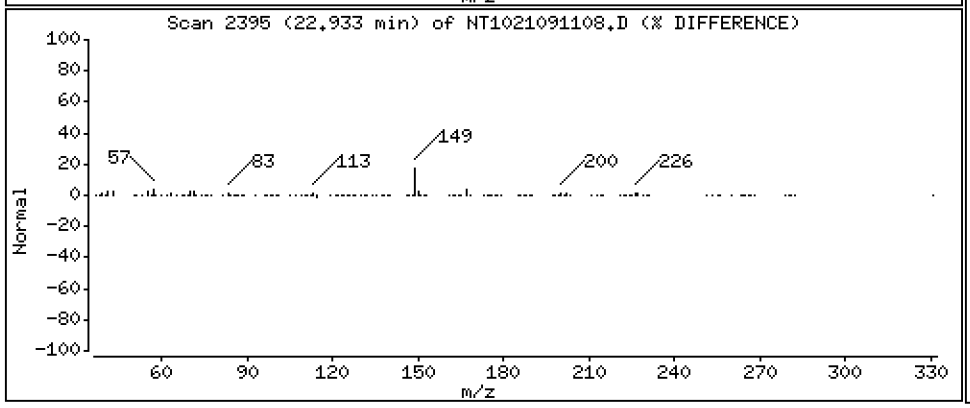
71 Chrysene

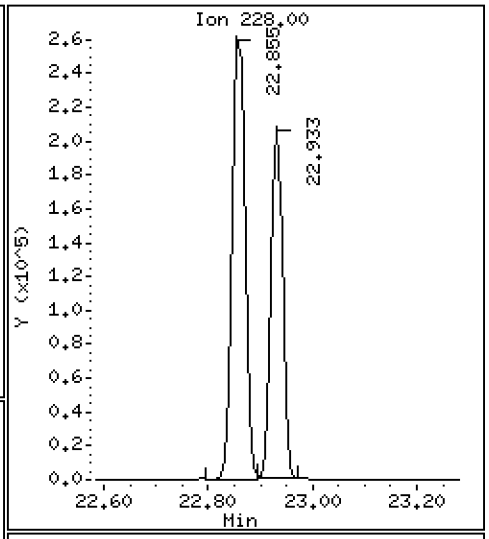
Concentration: 4.030 ug/mL

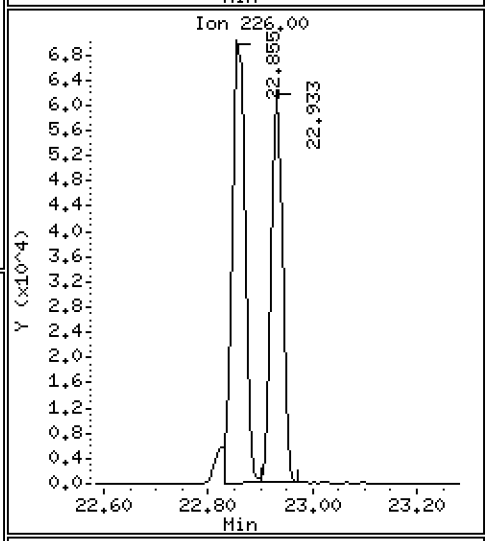


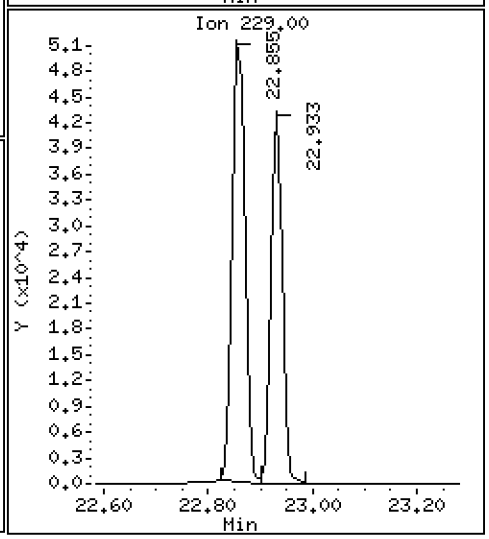












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

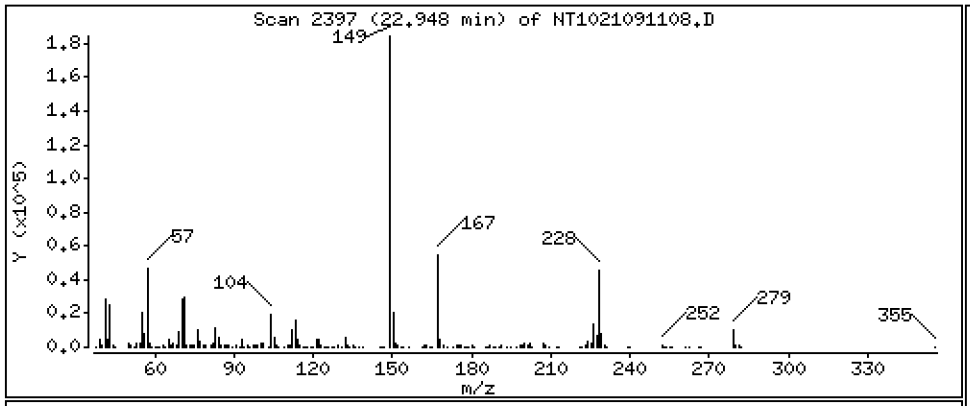
Operator: VTS

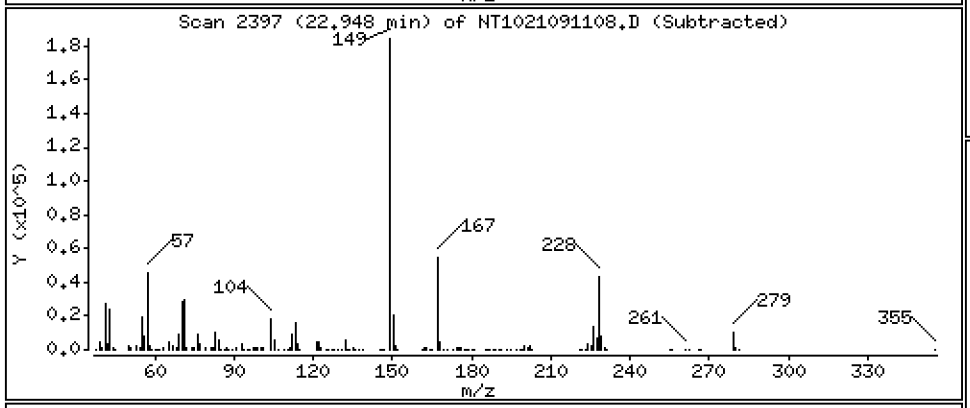
Column phase: ZB-5msi

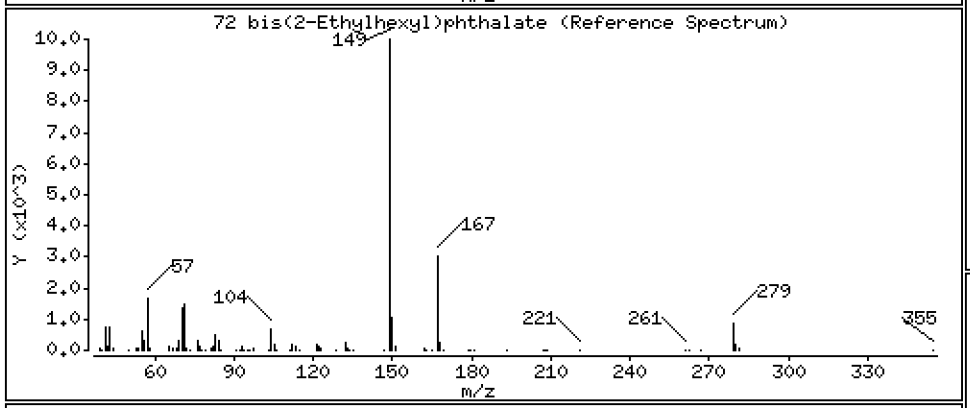
Column diameter: 0.25

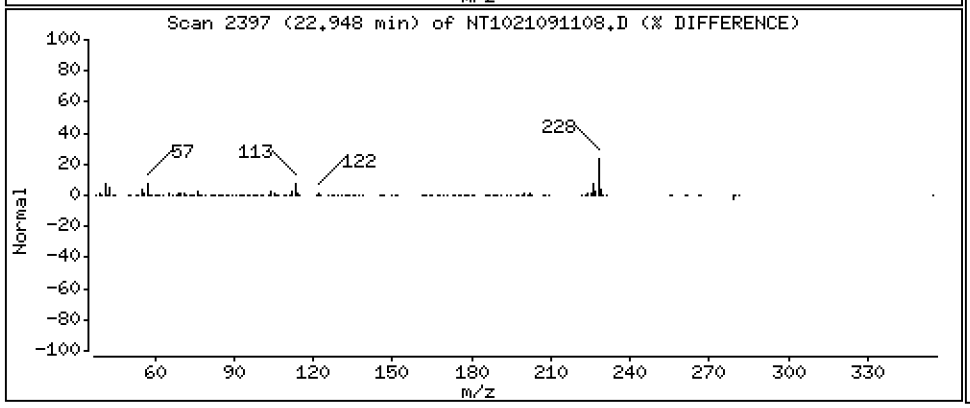
72 bis(2-Ethylhexyl)phthalate

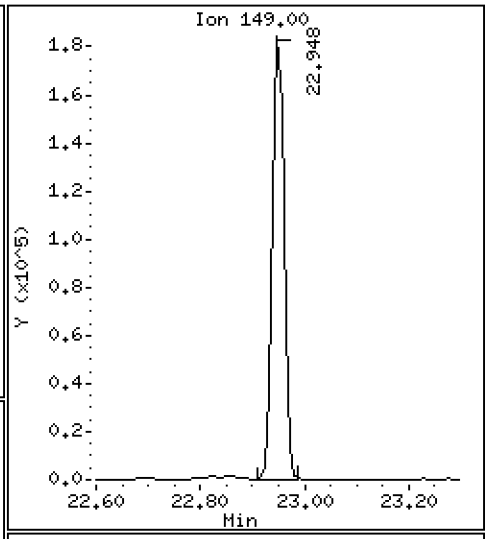
Concentration: 4.821 ug/mL

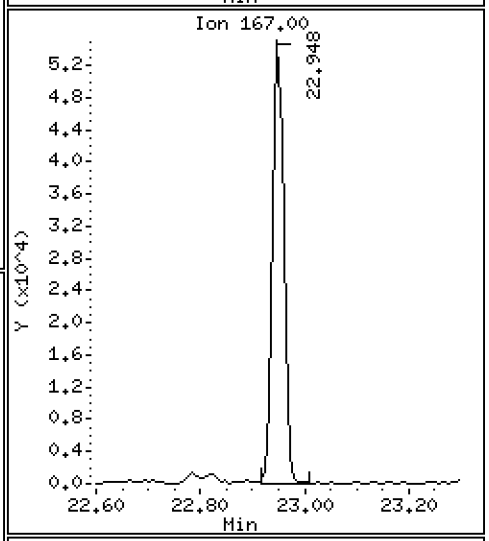


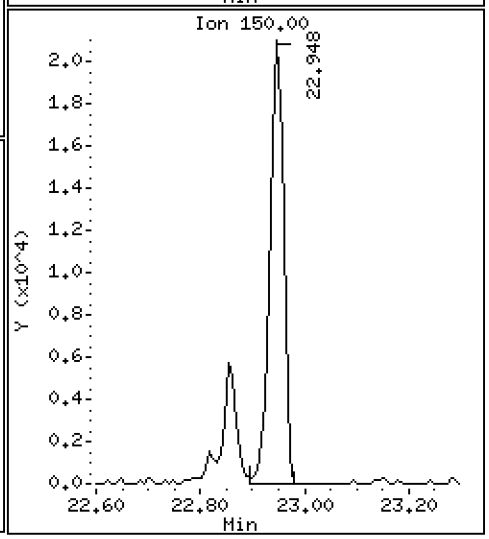












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

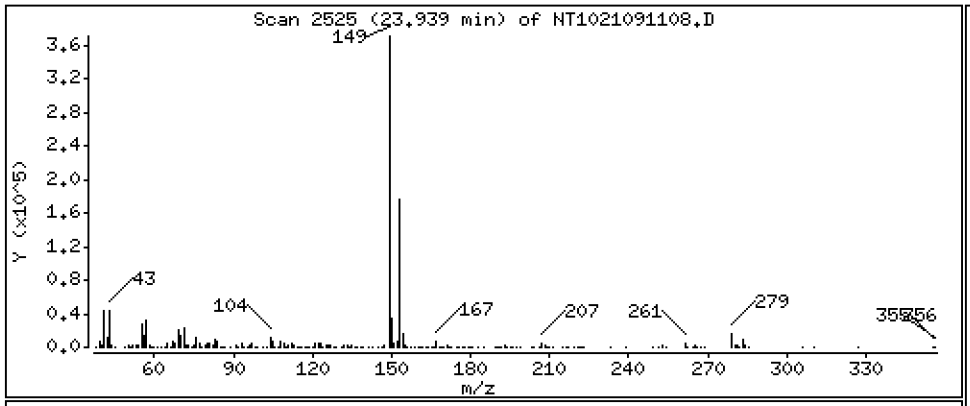
Operator: VTS

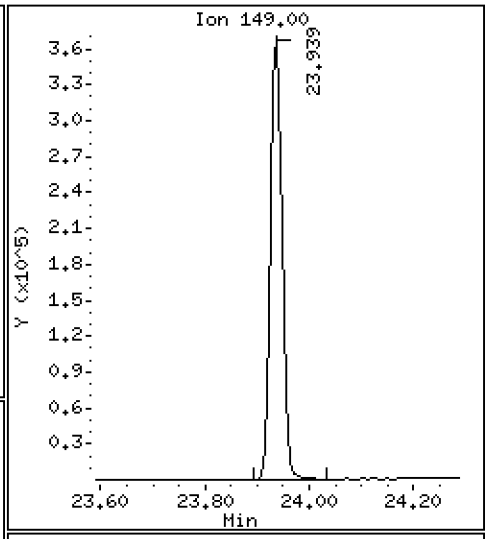
Column phase: ZB-5msi

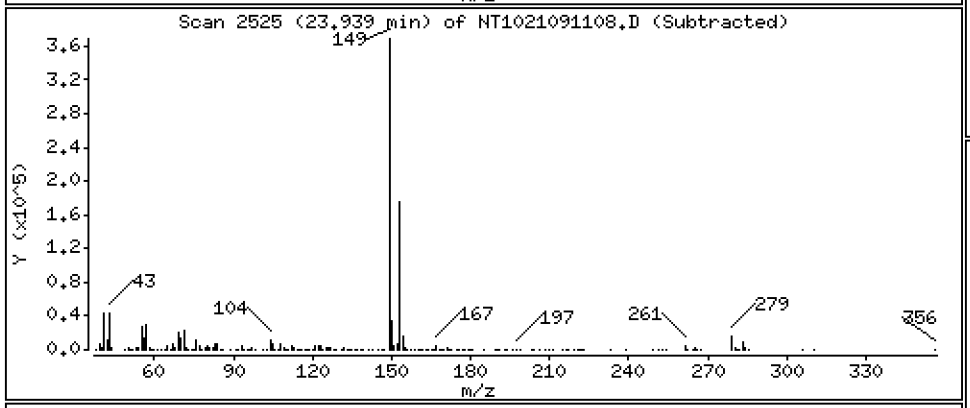
Column diameter: 0.25

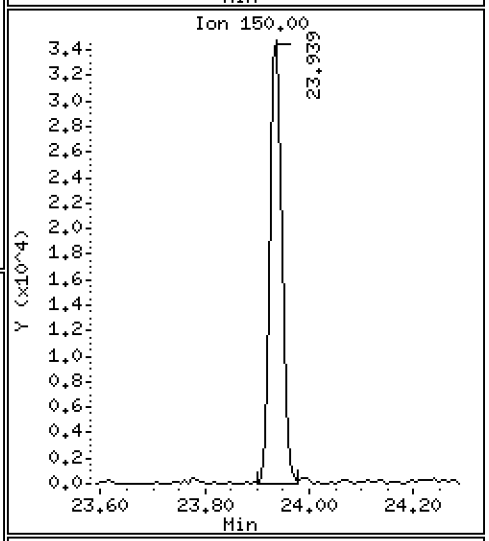
73 Di-n-octylphthalate

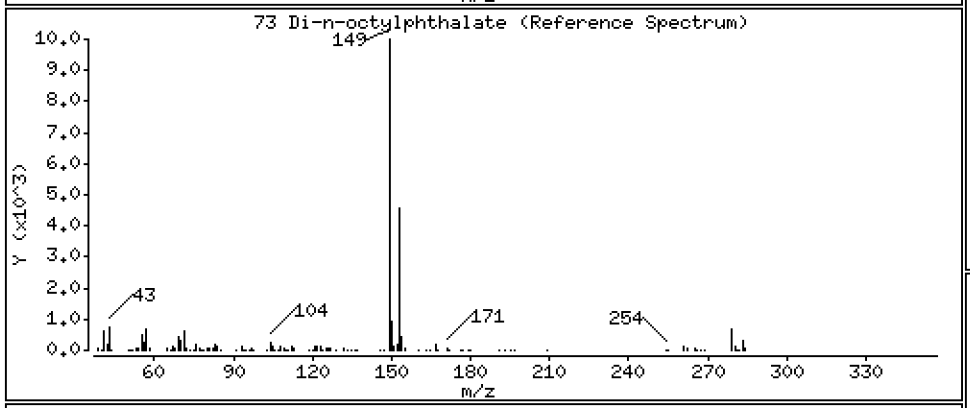
Concentration: 4.233 ug/mL

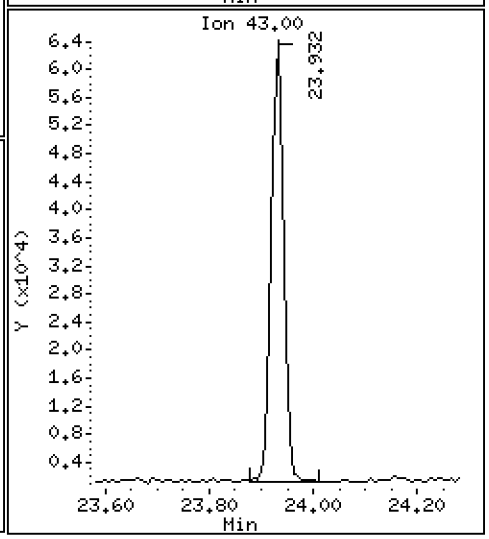


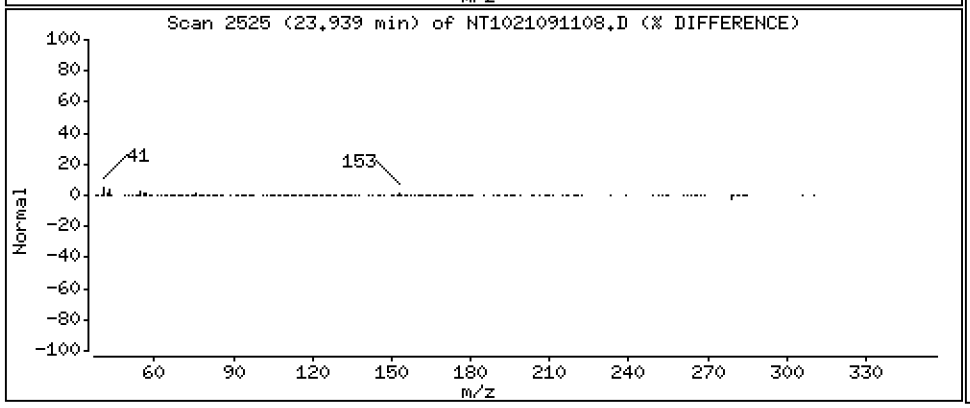












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

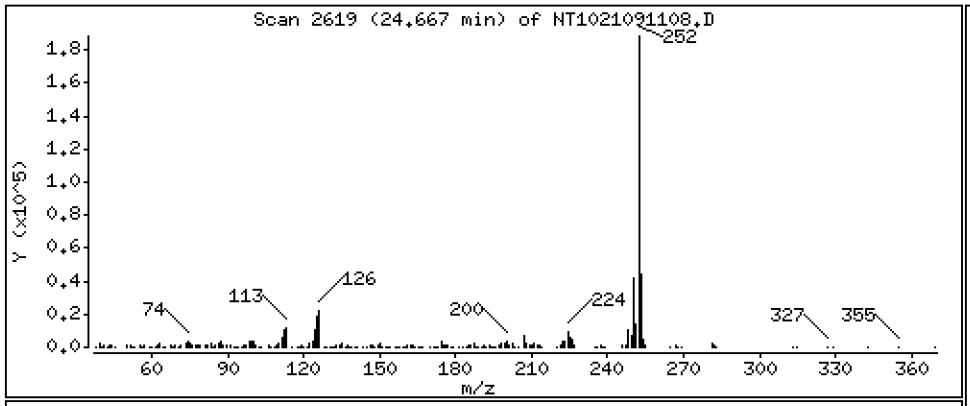
Operator: VTS

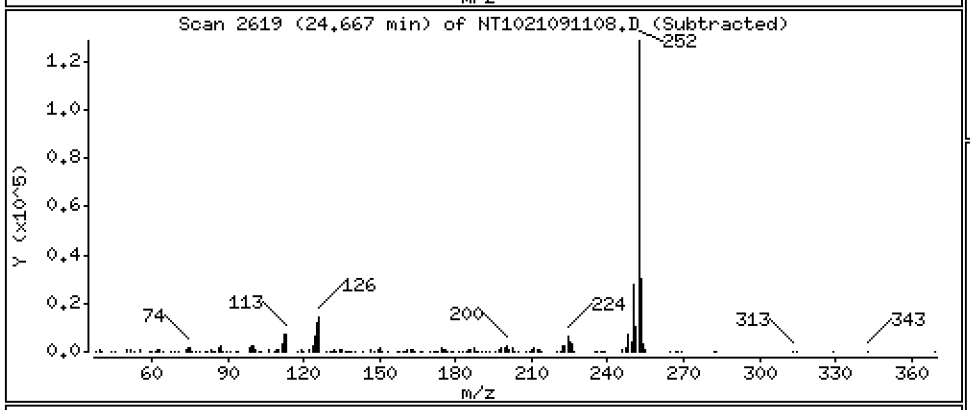
Column phase: ZB-5msi

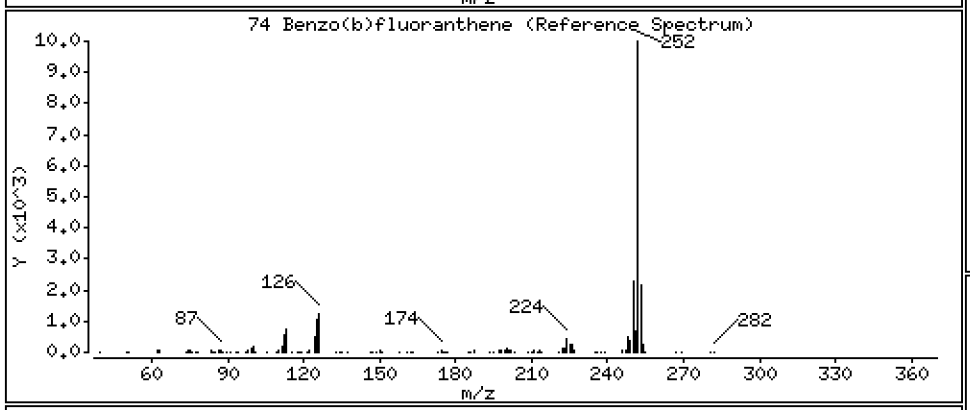
Column diameter: 0.25

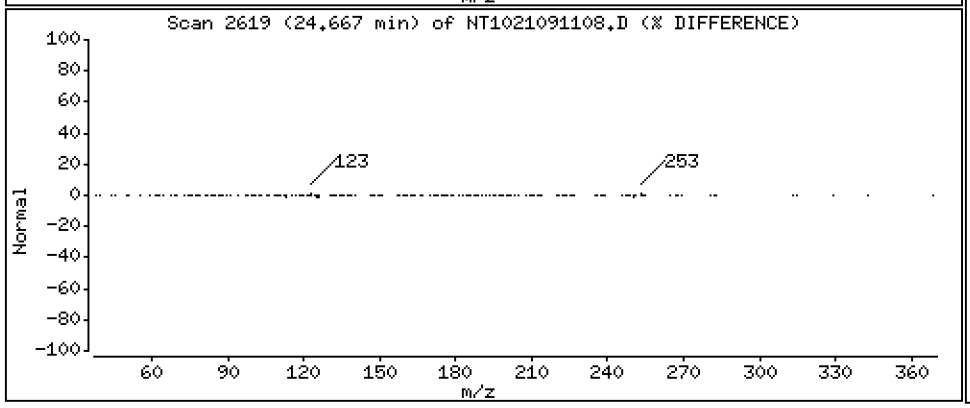
74 Benzo(b)fluoranthene

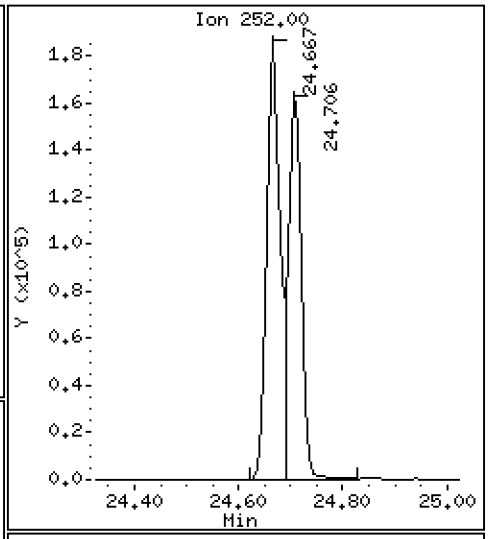
Concentration: 4.512 ug/mL

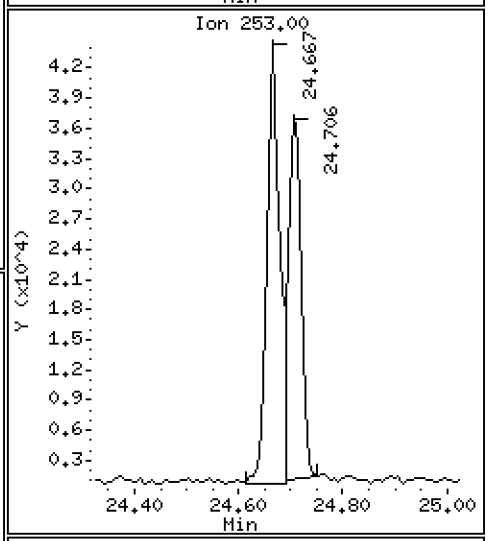


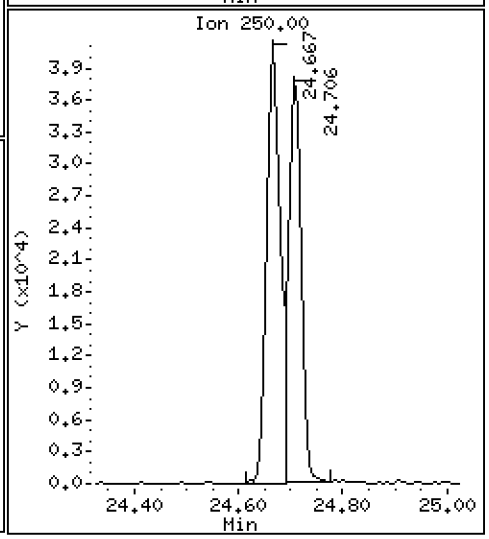












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

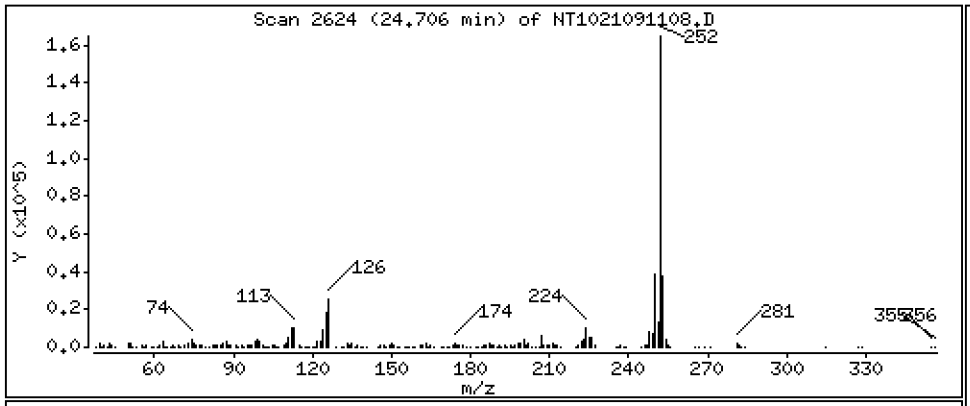
Operator: VTS

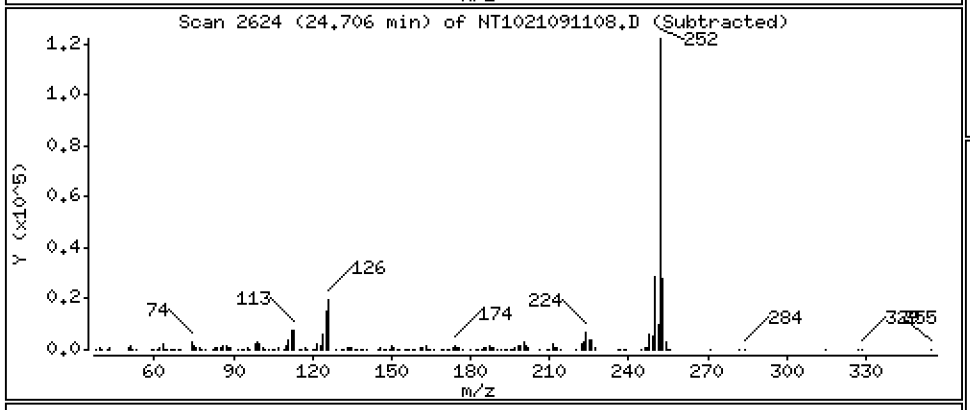
Column phase: ZB-5msi

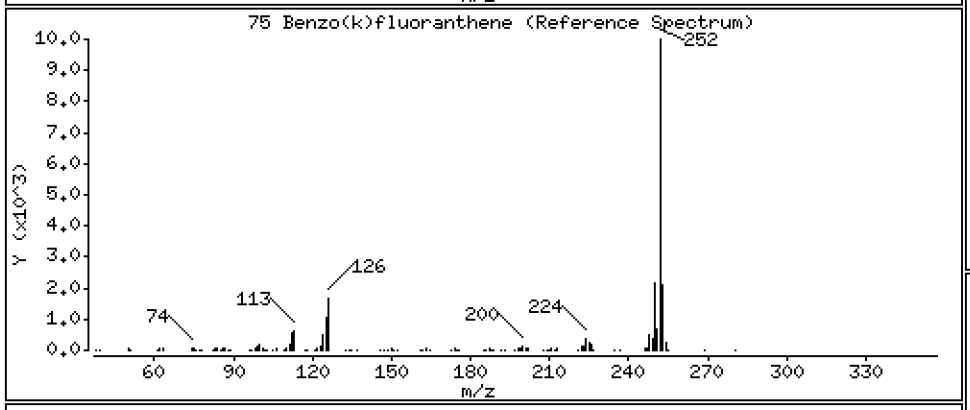
Column diameter: 0.25

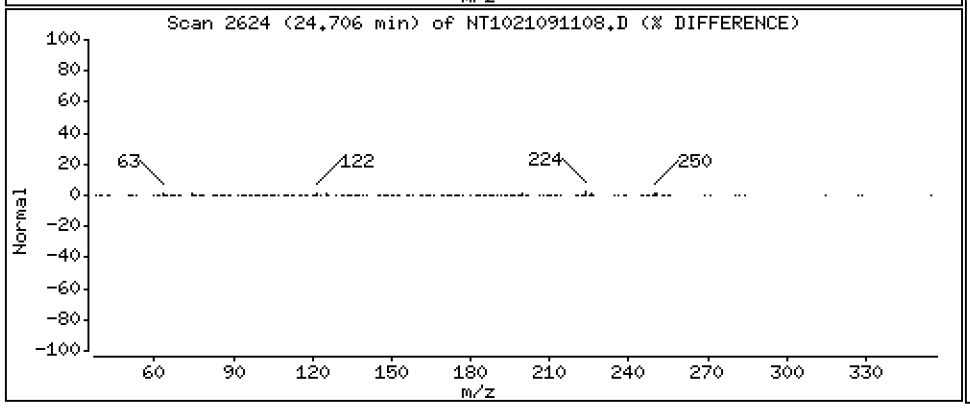
75 Benzo(k)fluoranthene

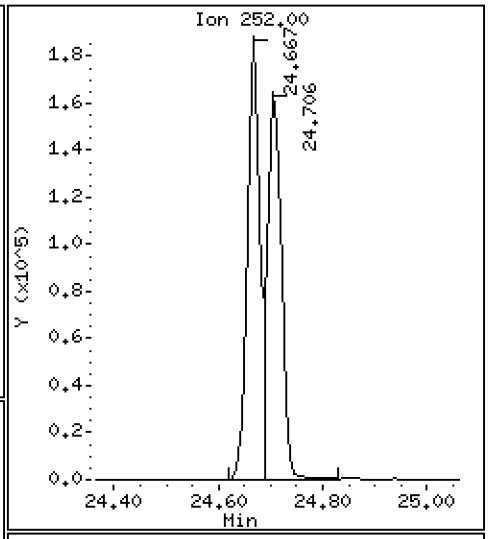
Concentration: 4.054 ug/mL

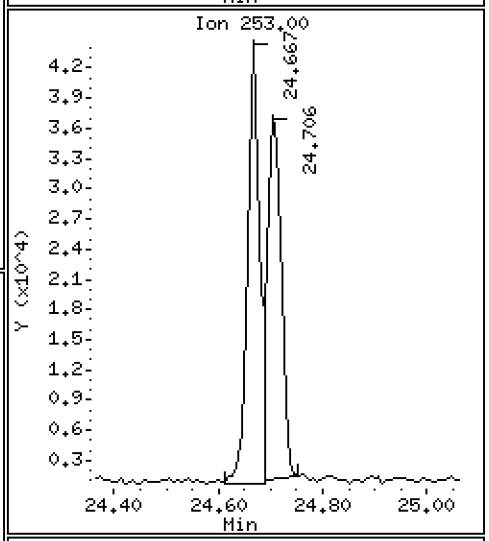


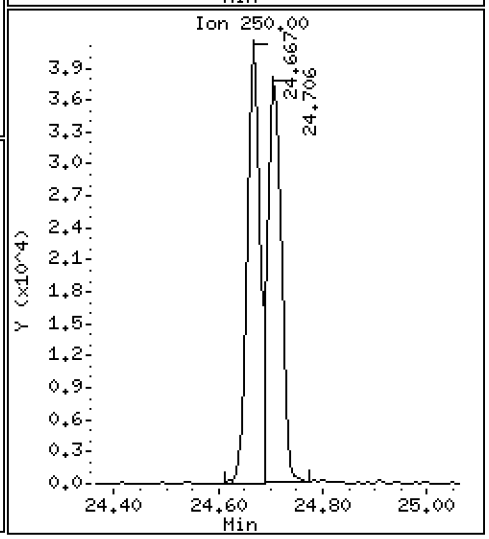












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

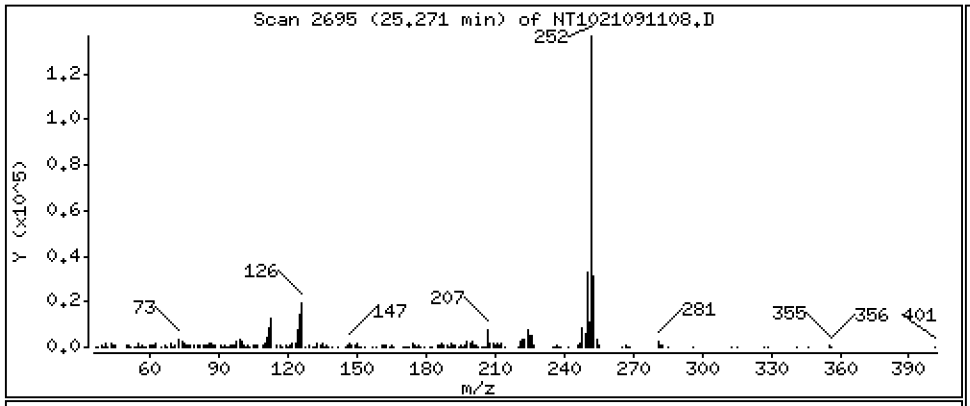
Operator: VTS

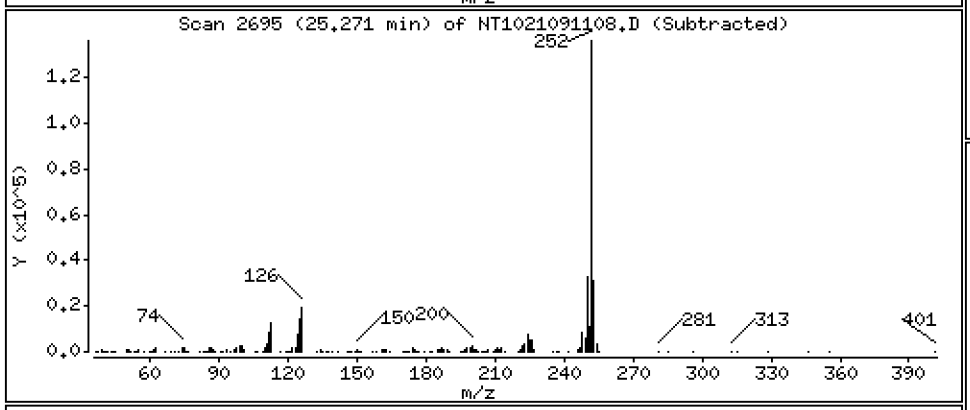
Column phase: ZB-5msi

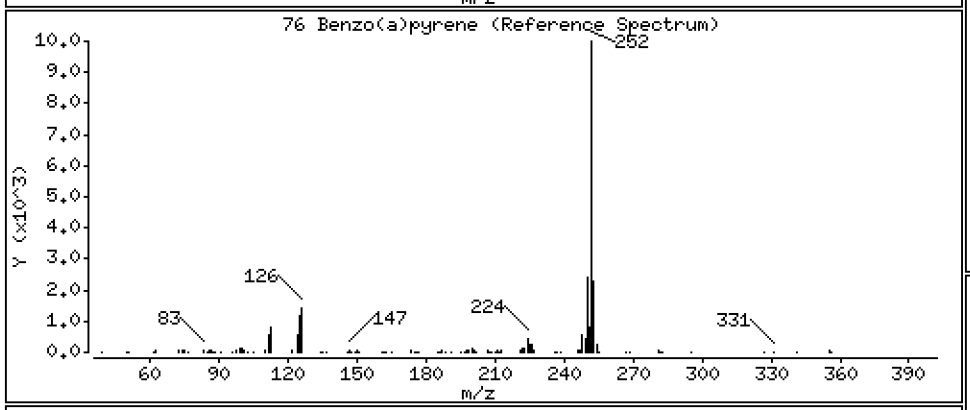
Column diameter: 0.25

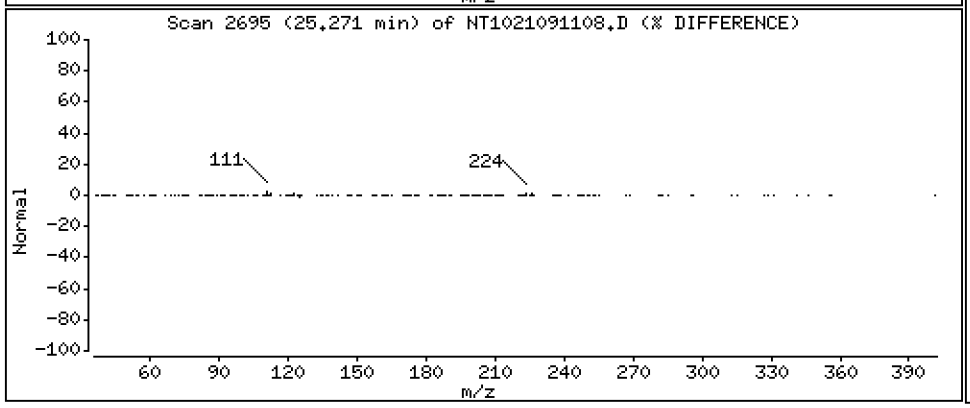
76 Benzo(a)pyrene

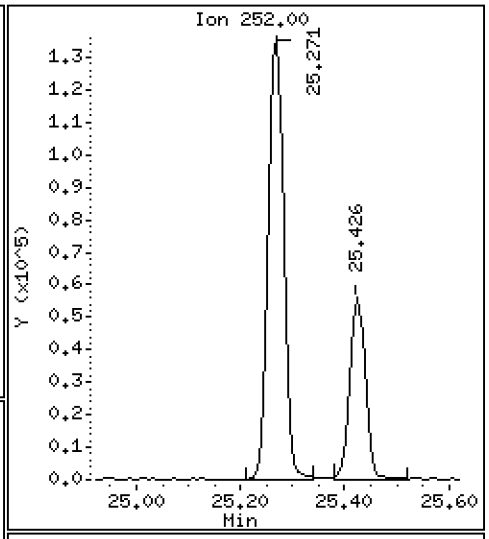
Concentration: 4.092 ug/mL

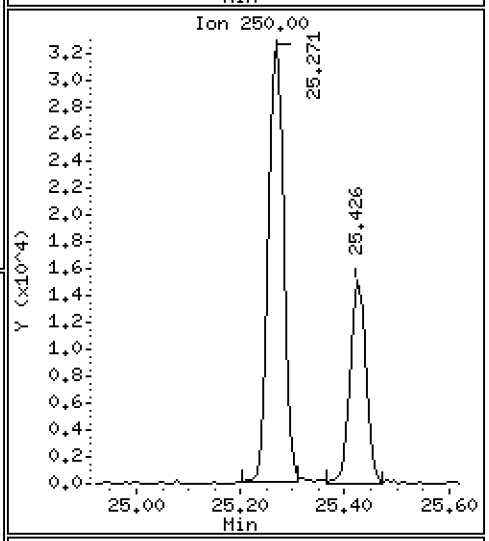


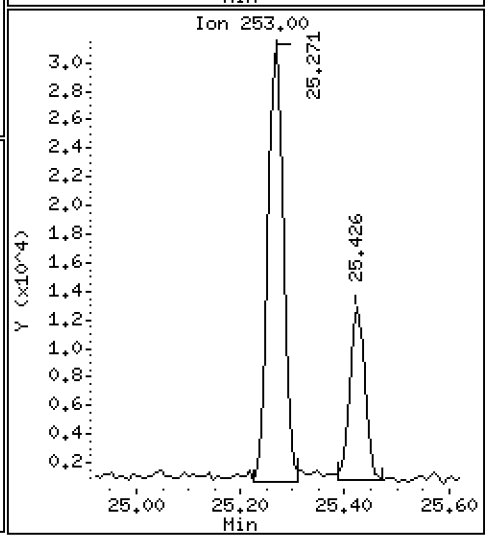












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

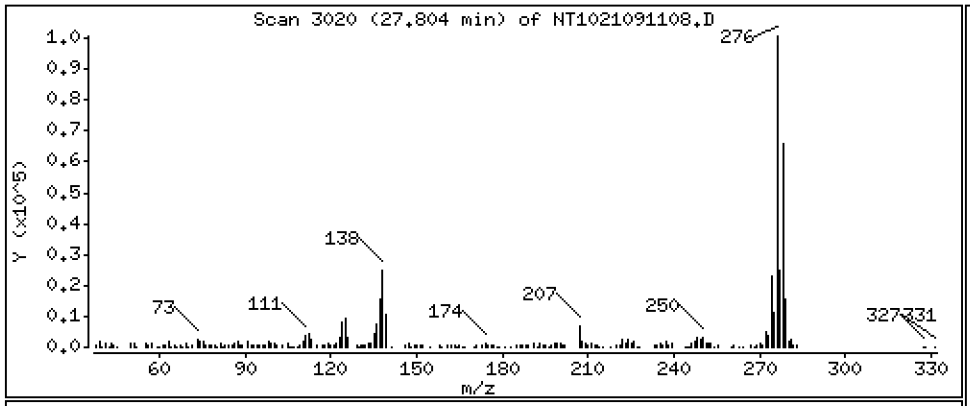
Operator: VTS

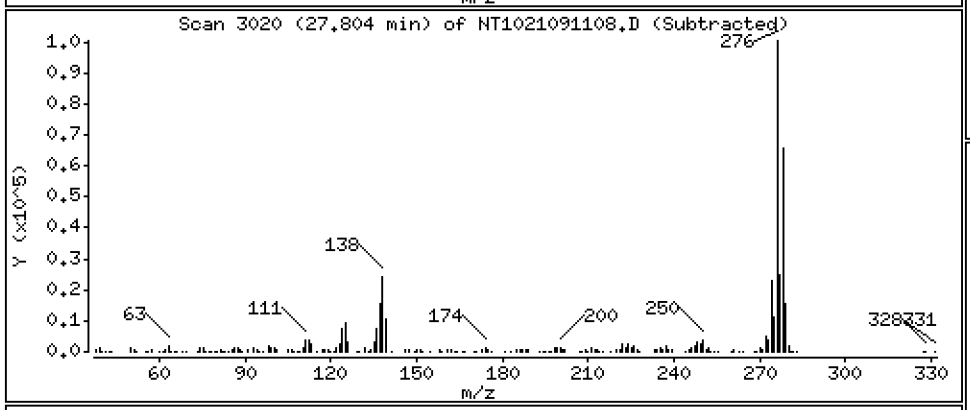
Column phase: ZB-5msi

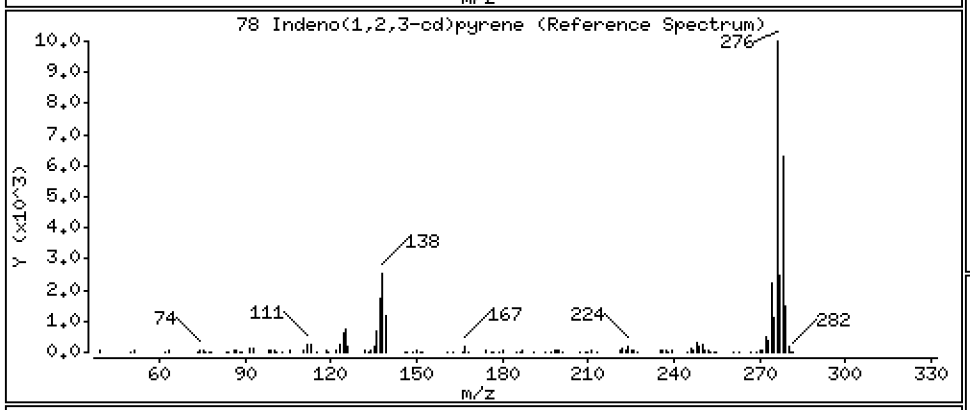
Column diameter: 0.25

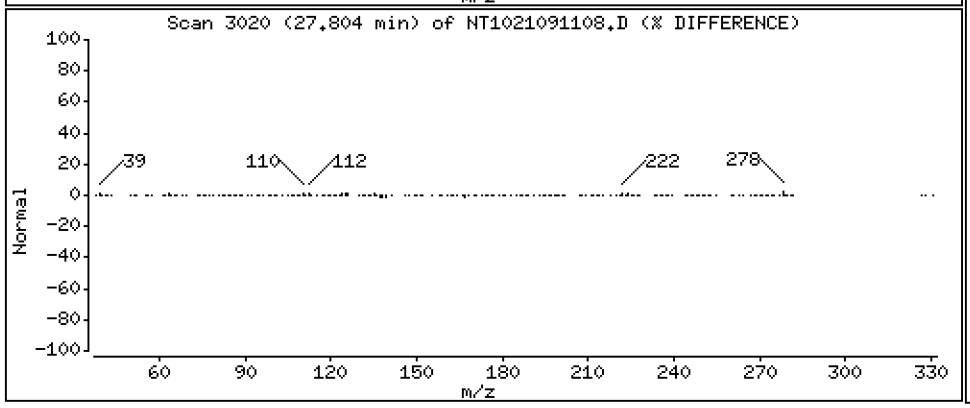
78 Indeno(1,2,3-cd)pyrene

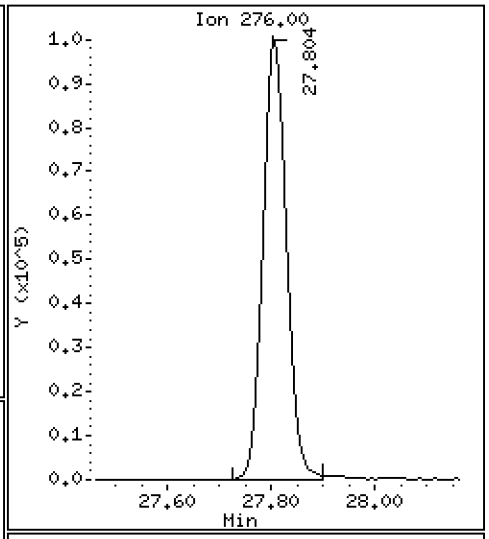
Concentration: 4.517 ug/mL

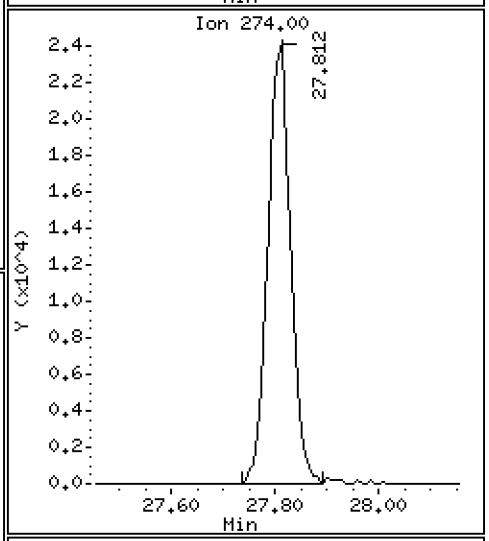


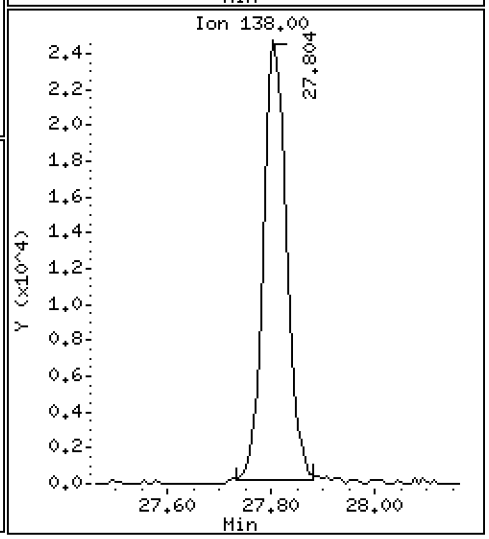












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

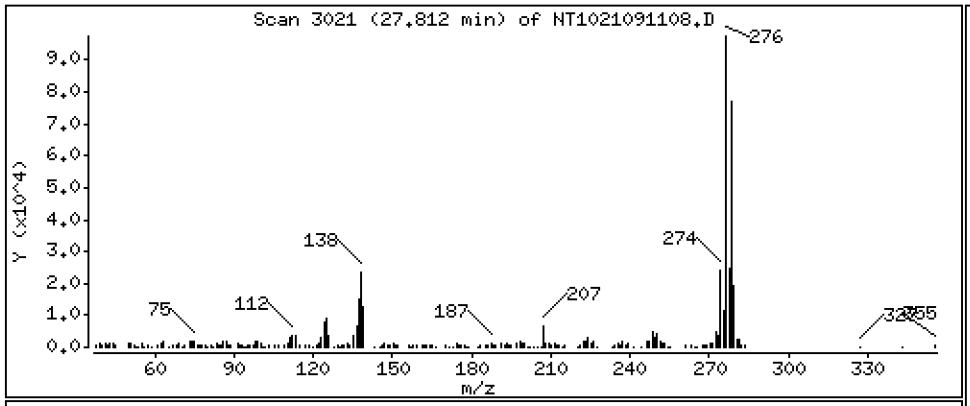
Operator: VTS

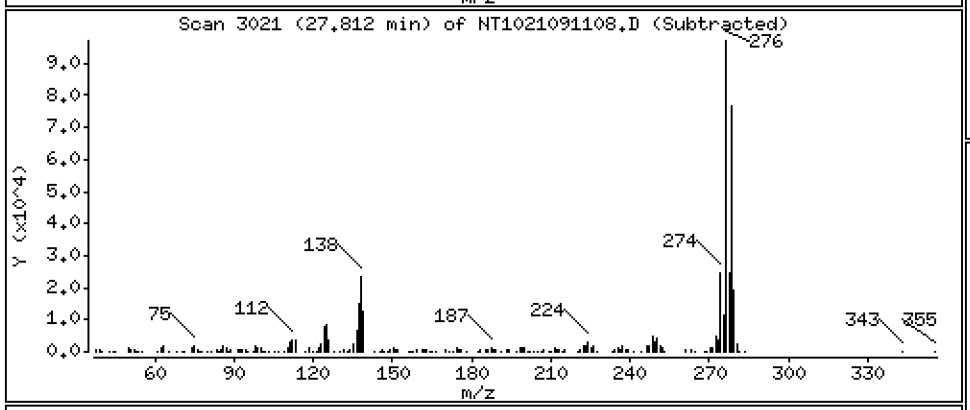
Column phase: ZB-5msi

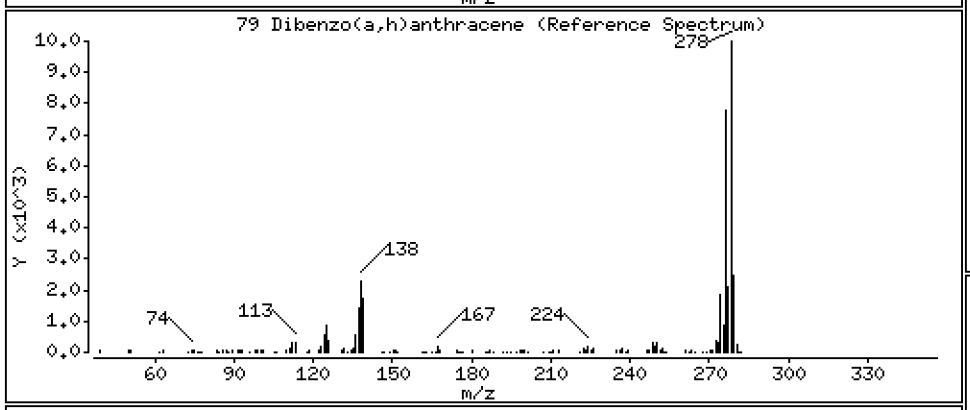
Column diameter: 0.25

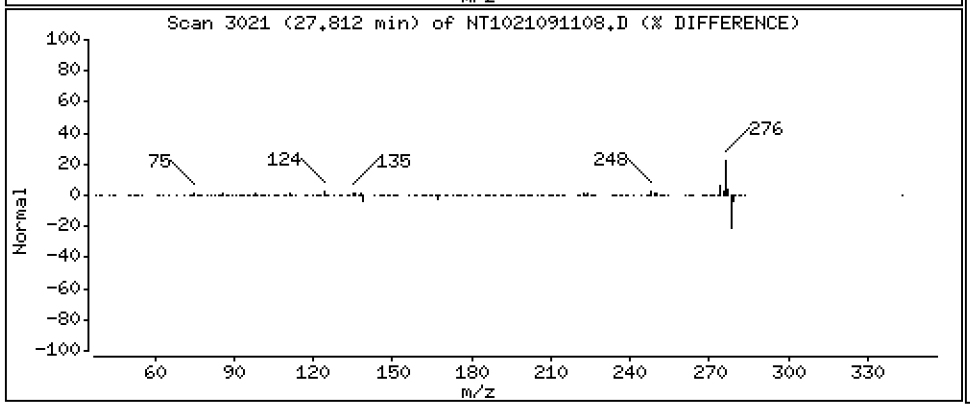
79 Dibenzo(a,h)anthracene

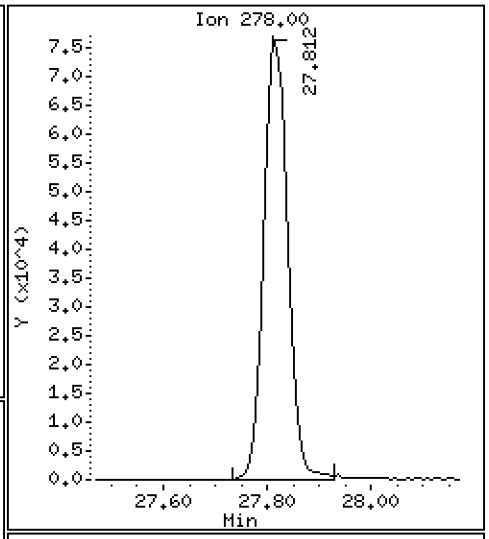
Concentration: 4.621 ug/mL

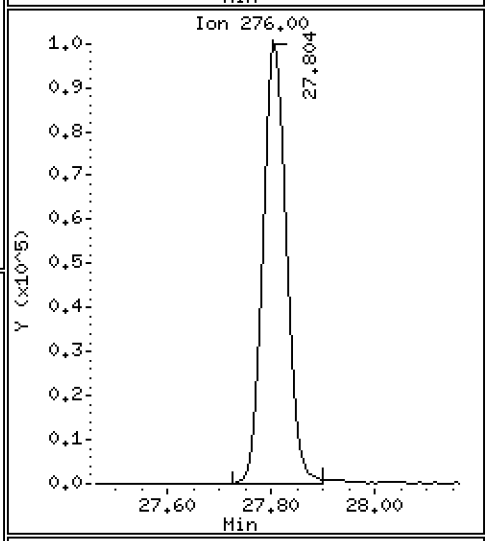


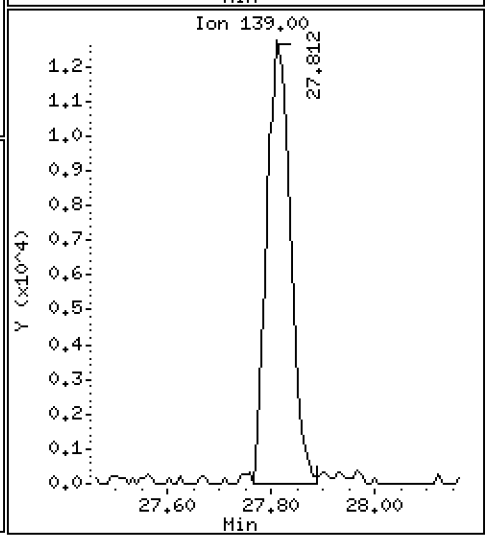












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

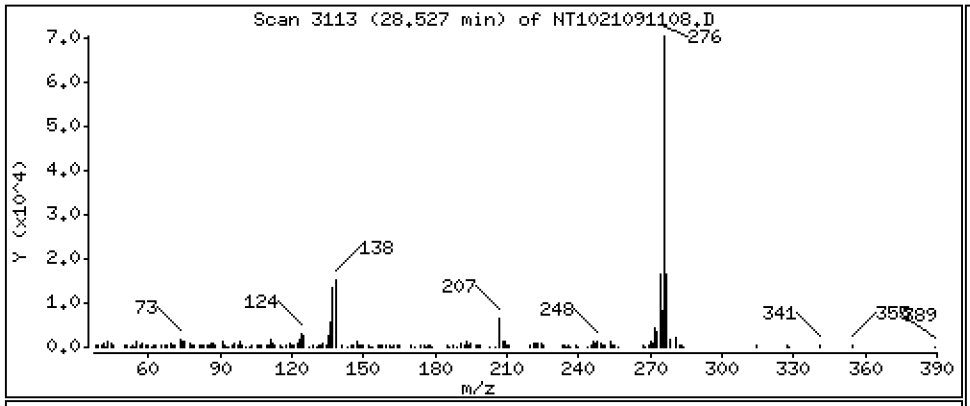
Operator: VTS

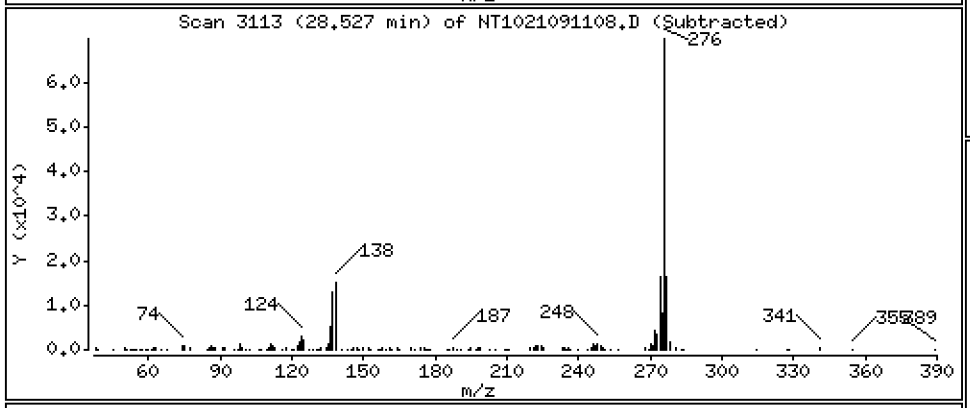
Column phase: ZB-5msi

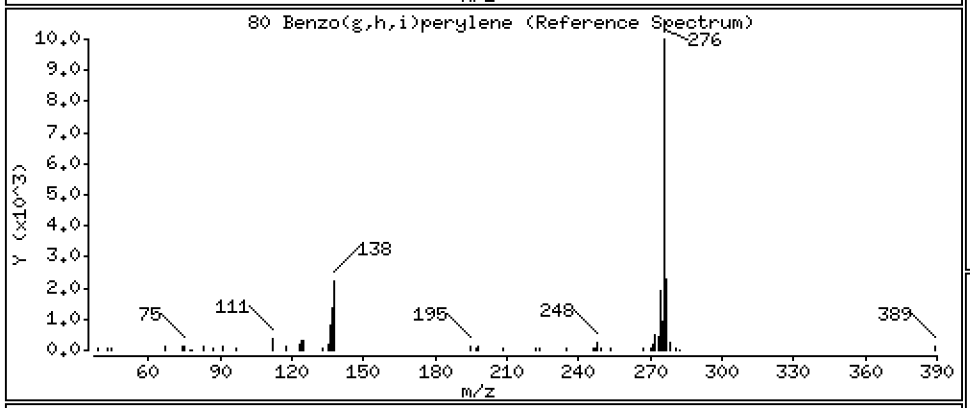
Column diameter: 0.25

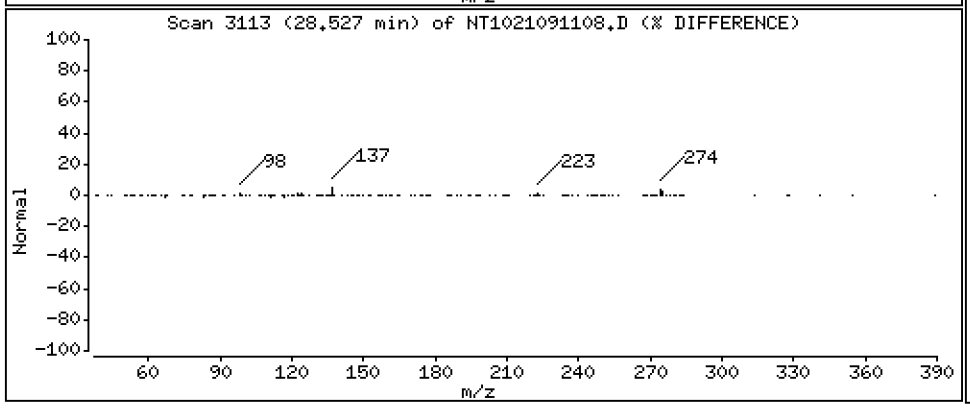
80 Benzo(g,h,i)perylene

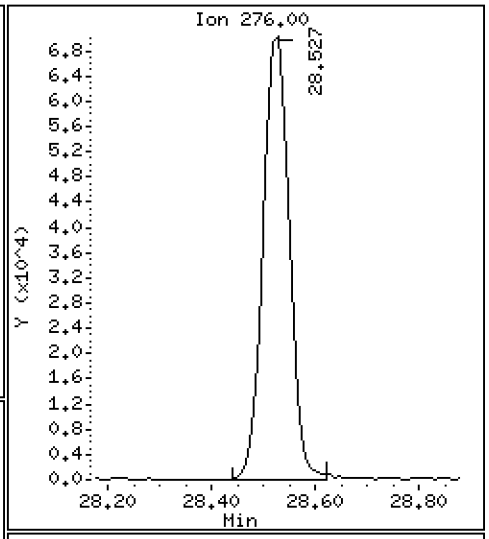
Concentration: 4.066 ug/mL

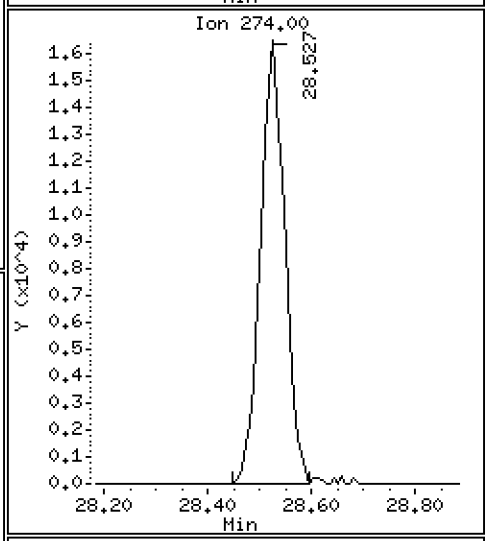


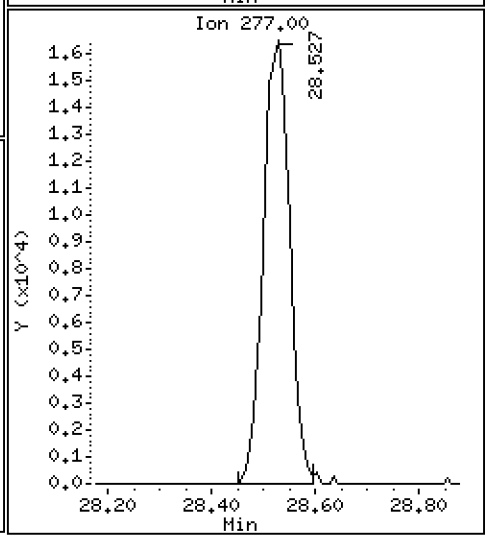












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

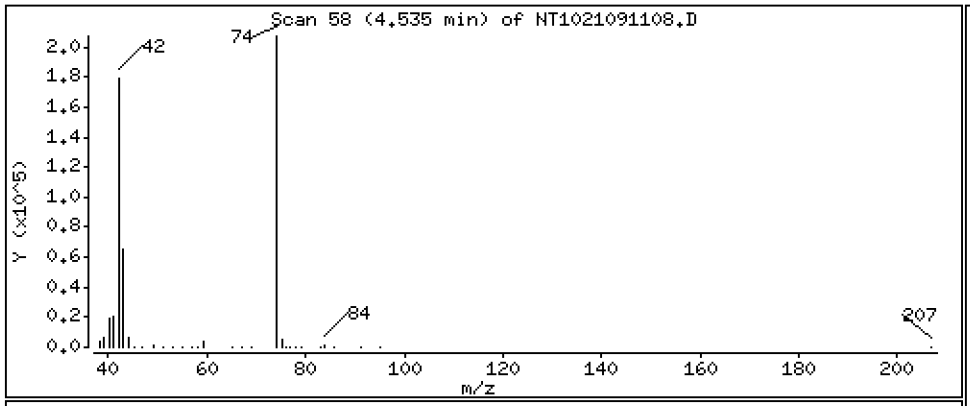
Operator: VTS

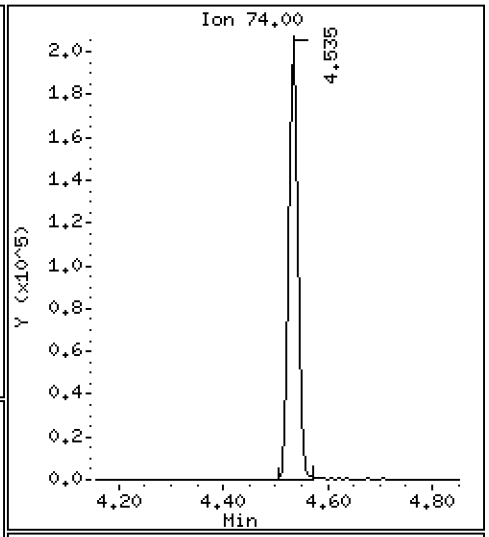
Column phase: ZB-5msi

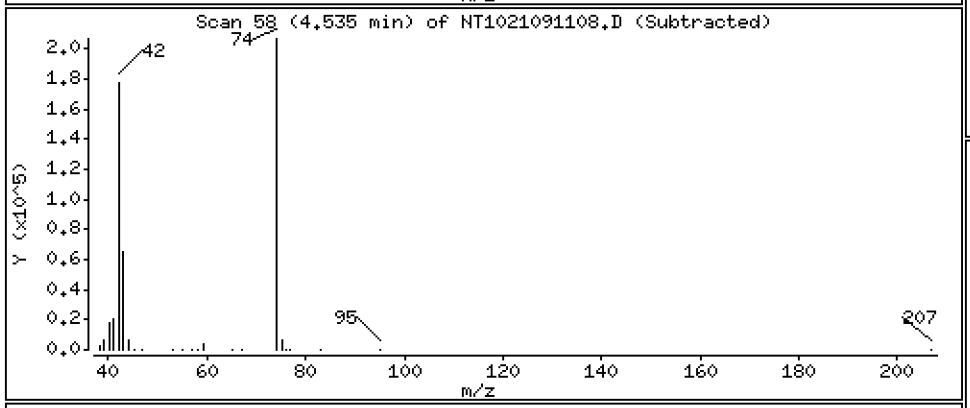
Column diameter: 0.25

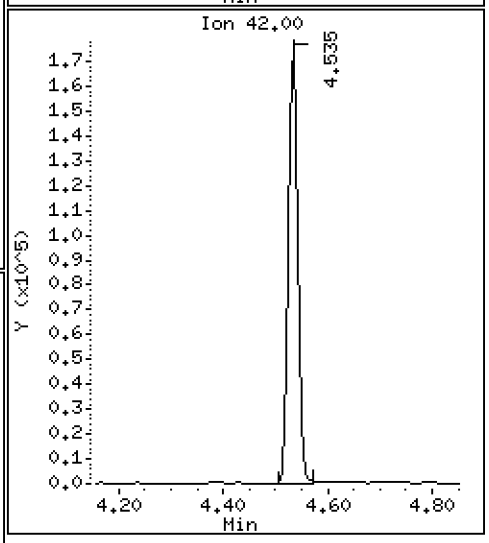
90 N-Nitrosodimethylamine

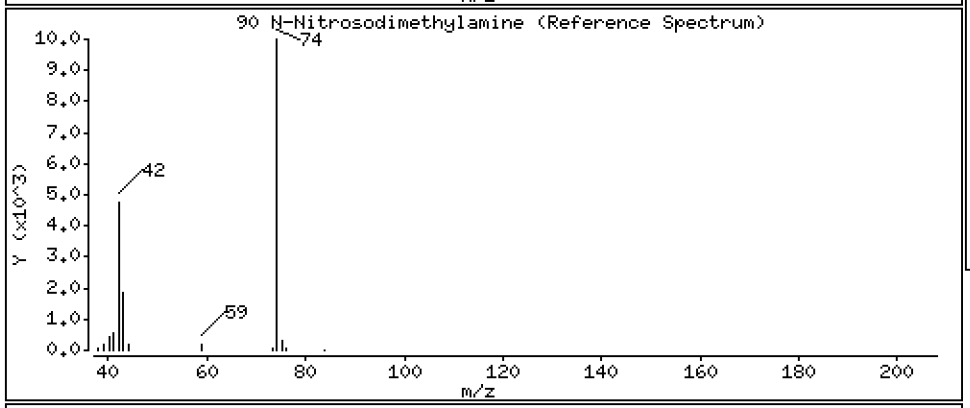
Concentration: 8.855 ug/mL

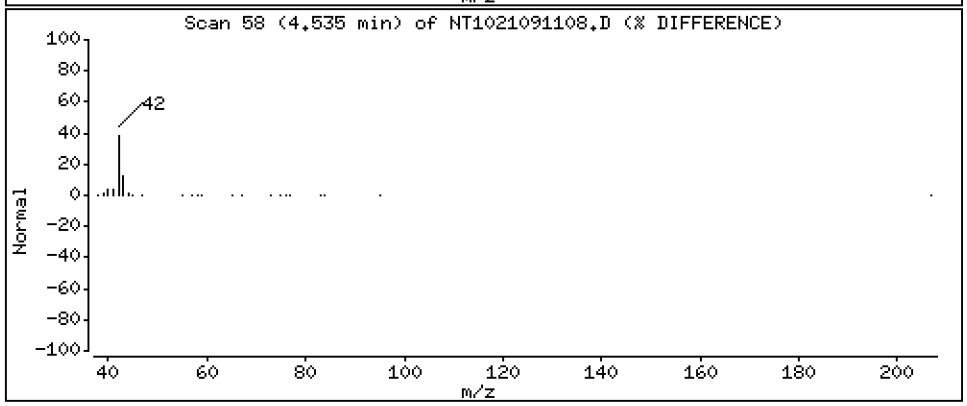












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

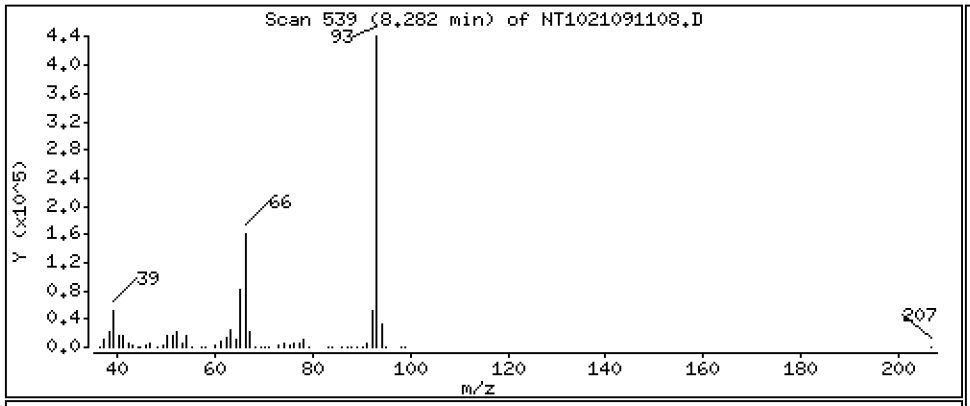
Operator: VTS

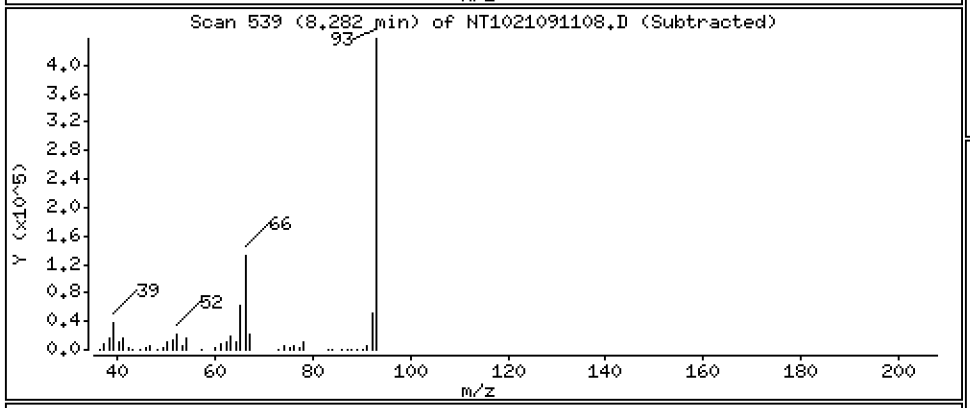
Column phase: ZB-5msi

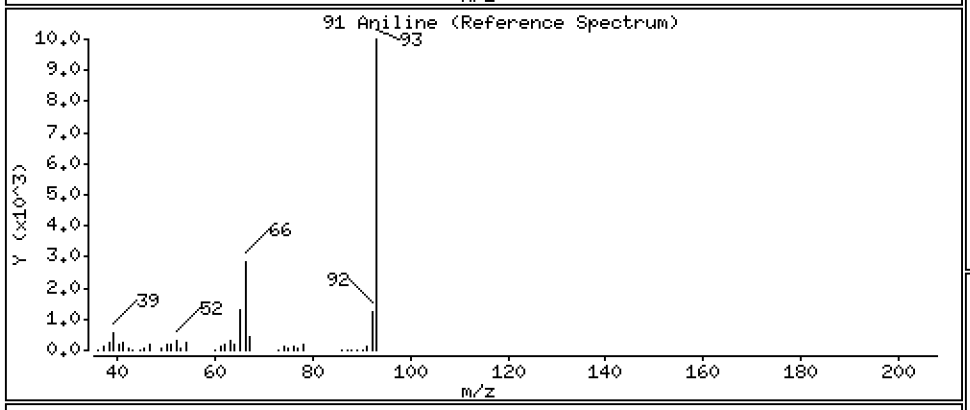
Column diameter: 0.25

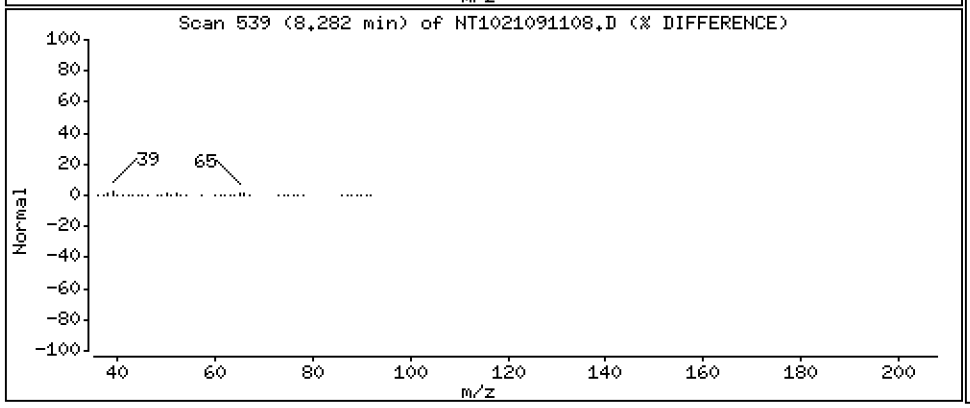
91 Aniline

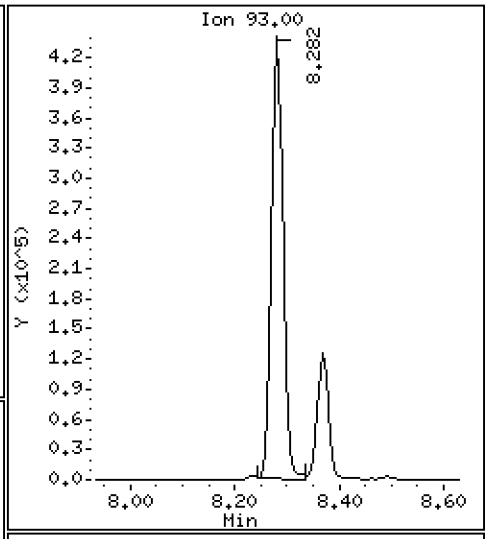
Concentration: 9.176 ug/mL

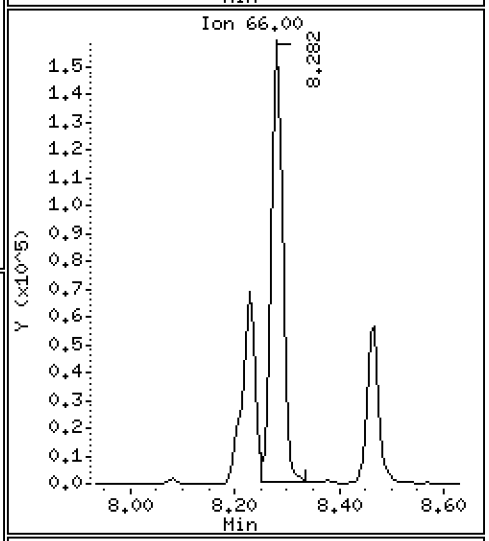


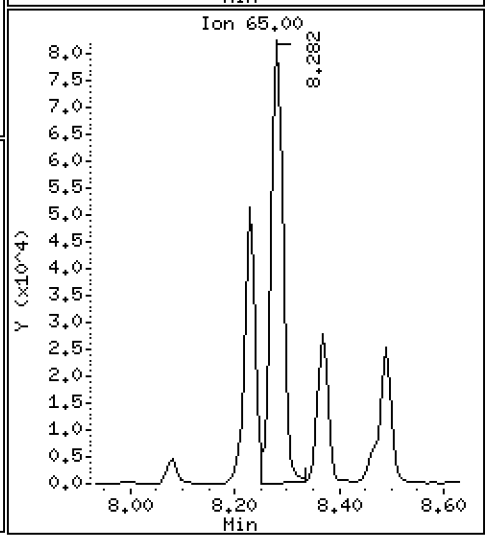












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

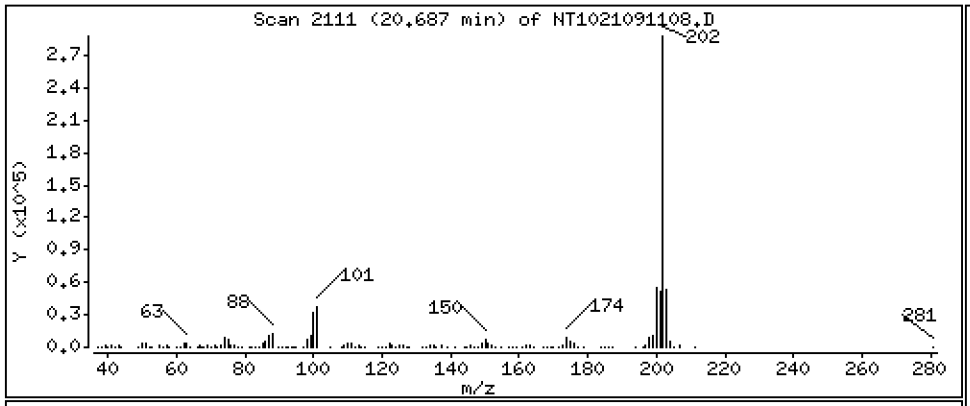
Operator: VTS

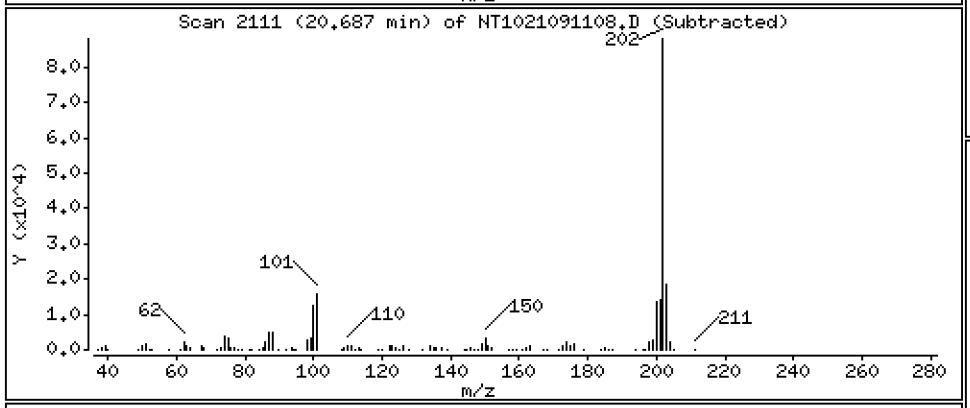
Column phase: ZB-5msi

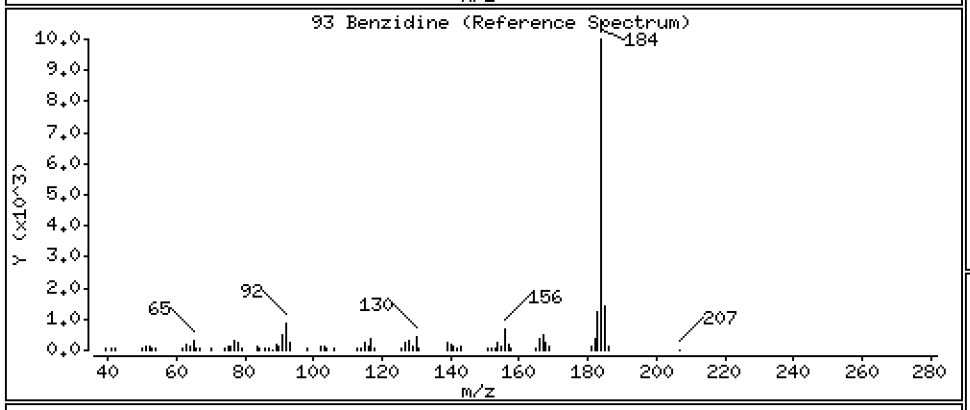
Column diameter: 0.25

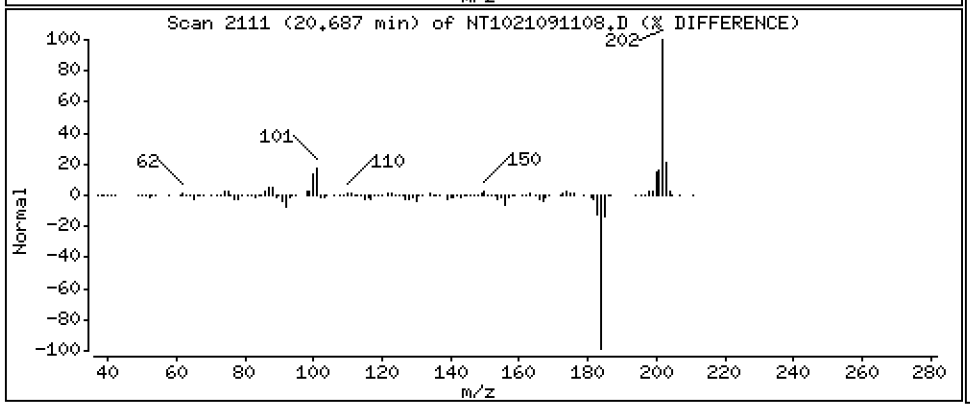
93 Benzidine

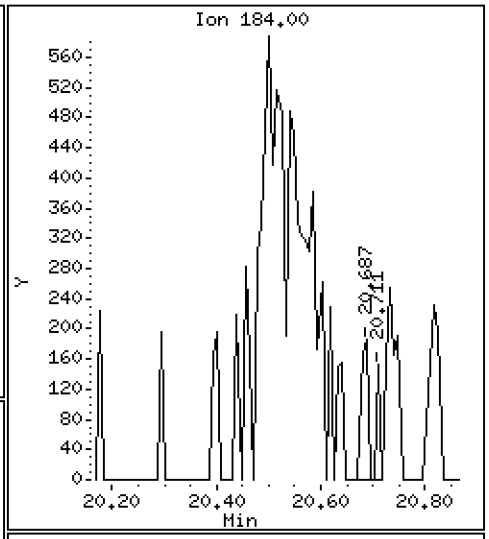
Concentration: 0.003127 ug/mL

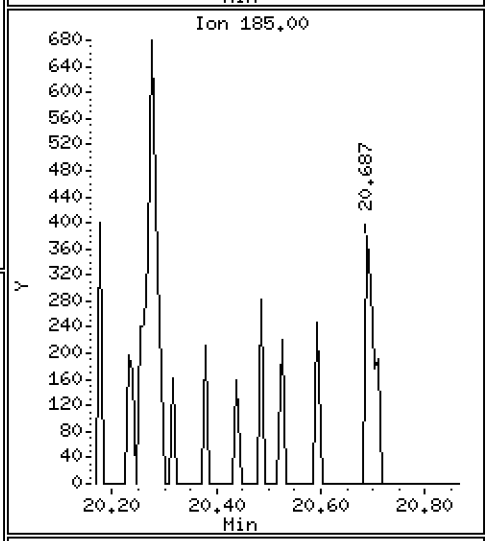


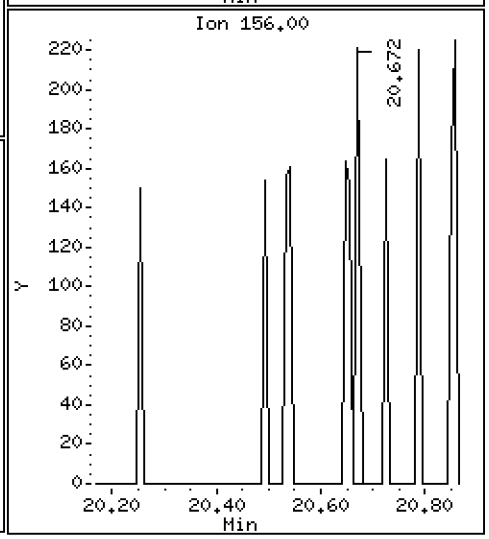












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

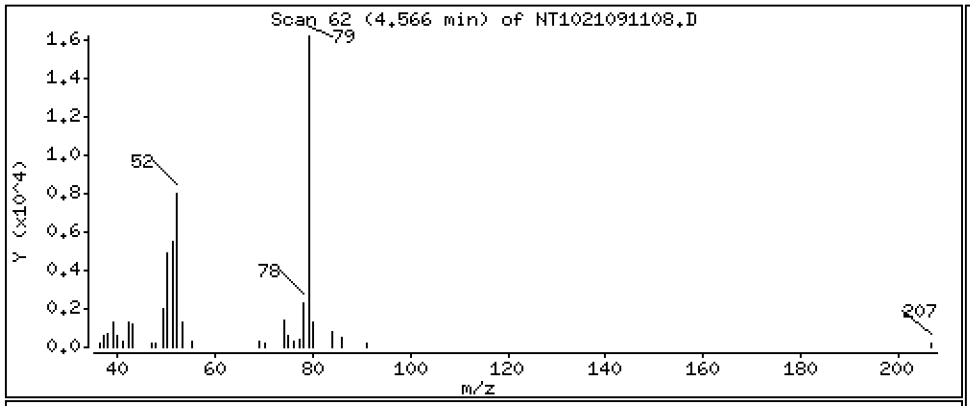
Operator: VTS

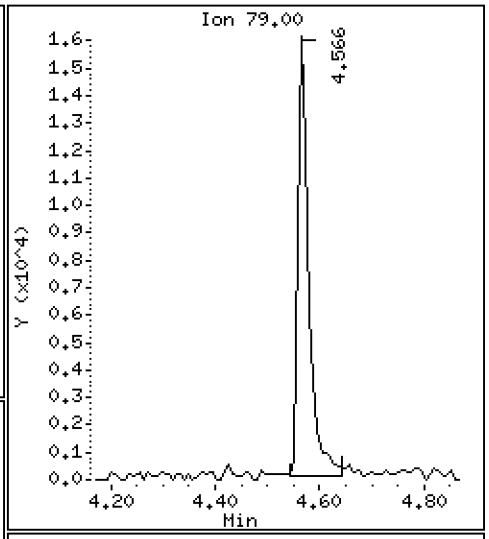
Column phase: ZB-5msi

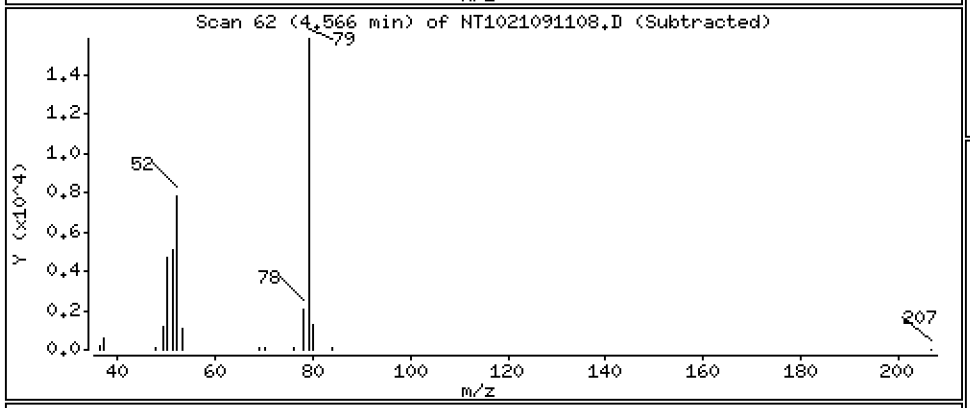
Column diameter: 0.25

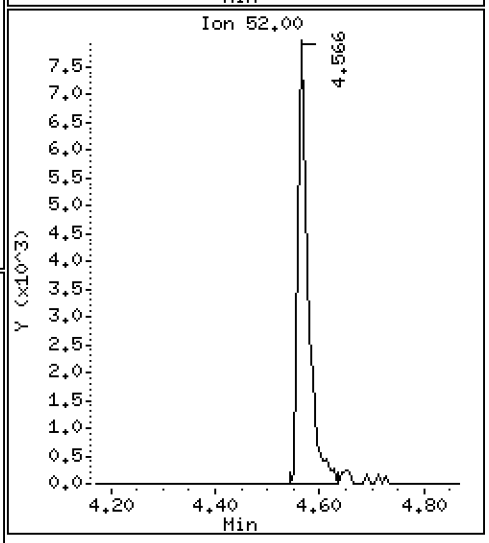
103 Pyridine

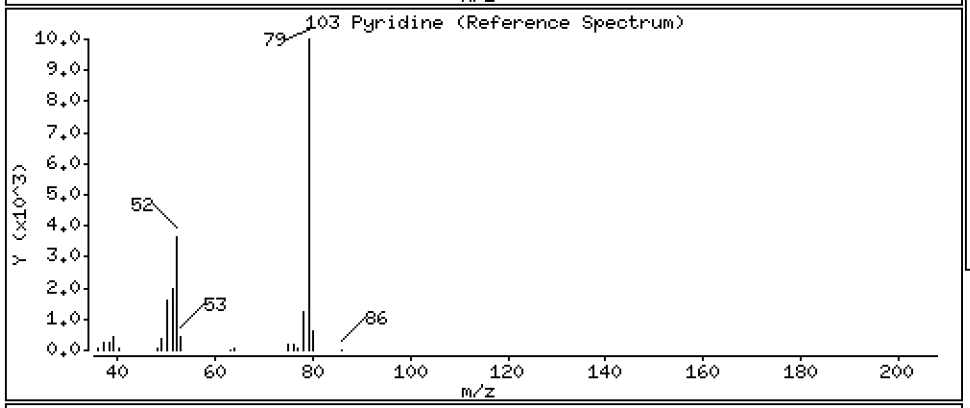
Concentration: 0.2553 ug/mL

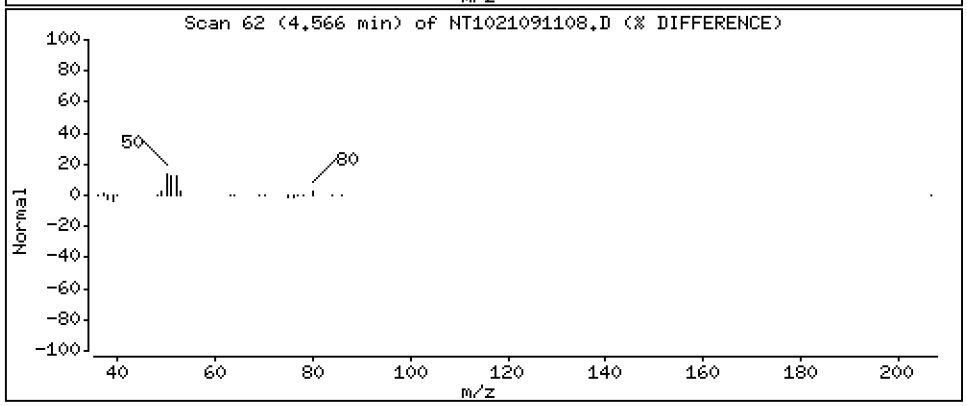












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091108.D

Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

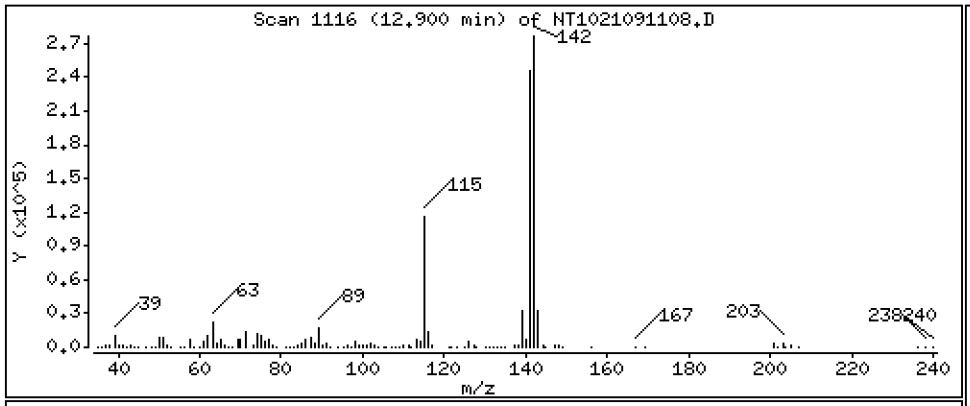
Operator: VTS

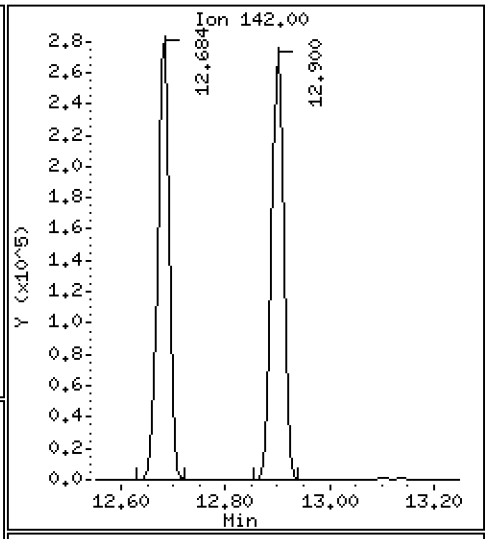
Column phase: ZB-5msi

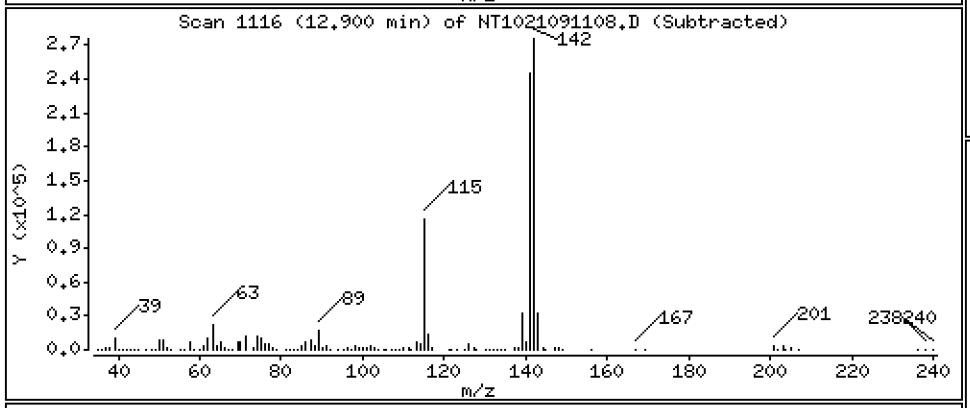
Column diameter: 0.25

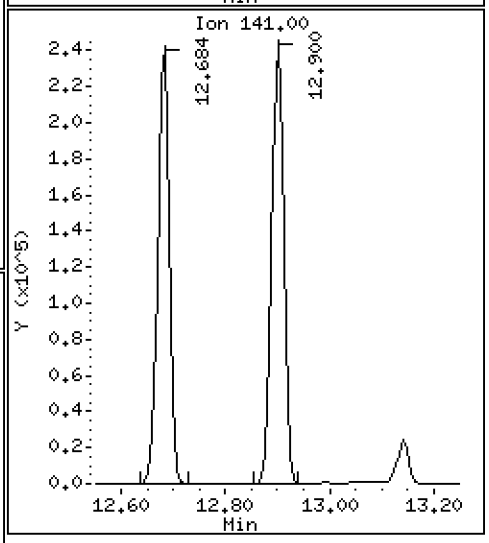
105 1-methylnaphthalene

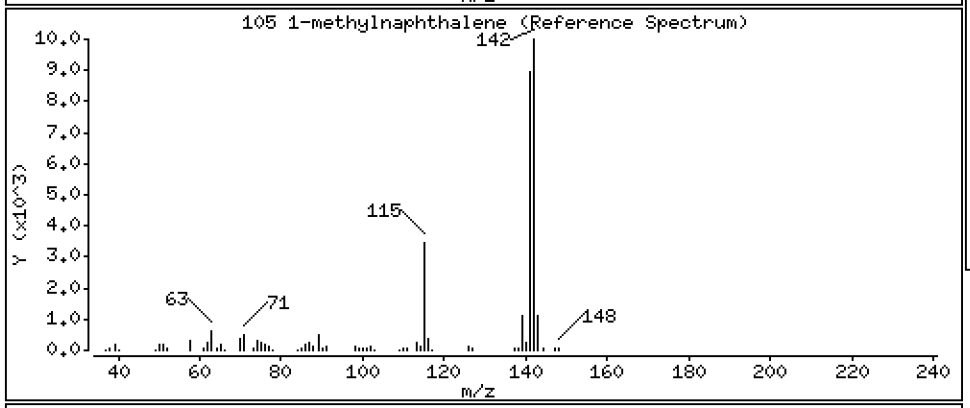
Concentration: 4.038 ug/mL

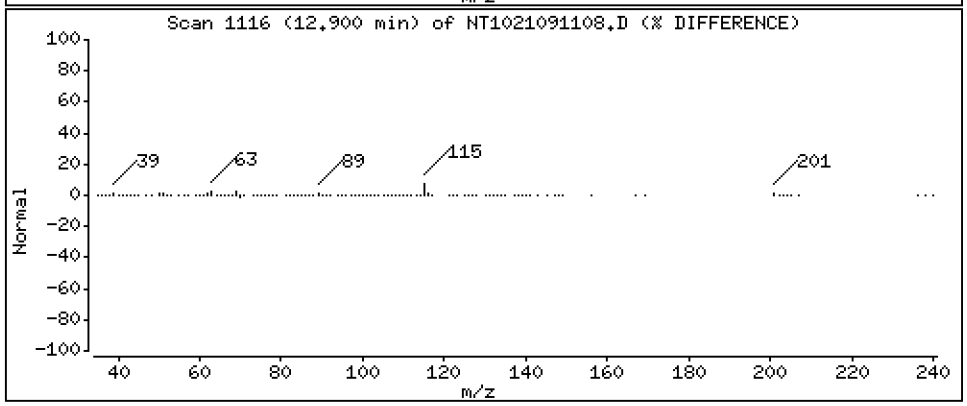












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

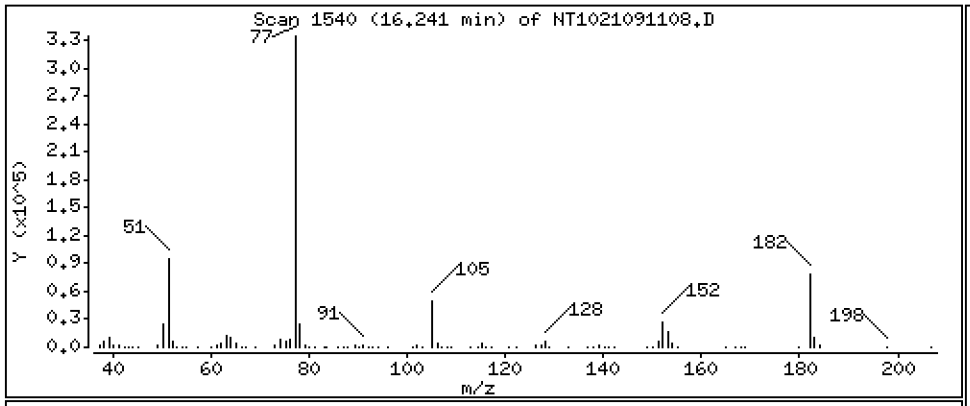
Operator: VTS

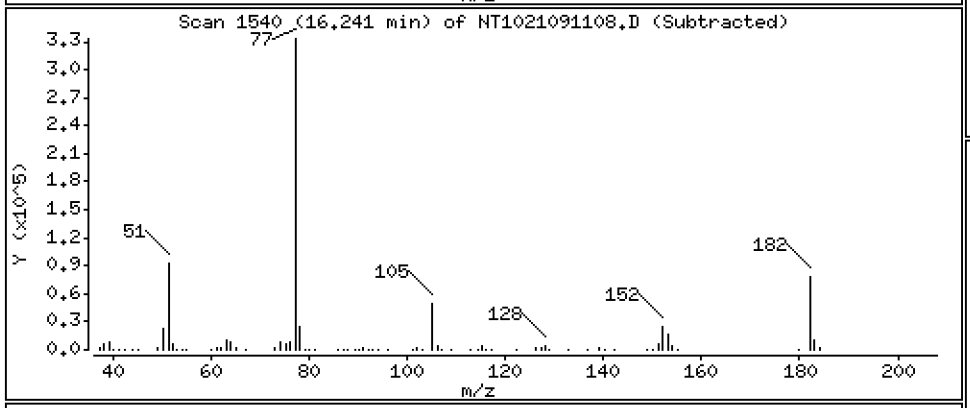
Column phase: ZB-5msi

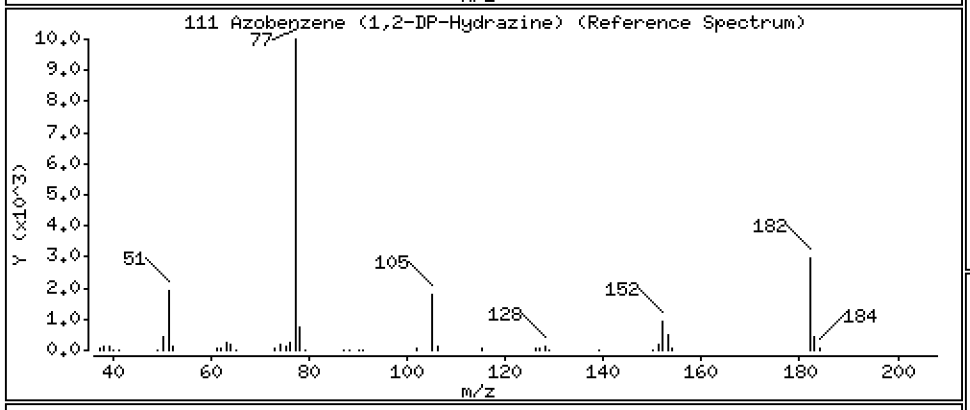
Column diameter: 0.25

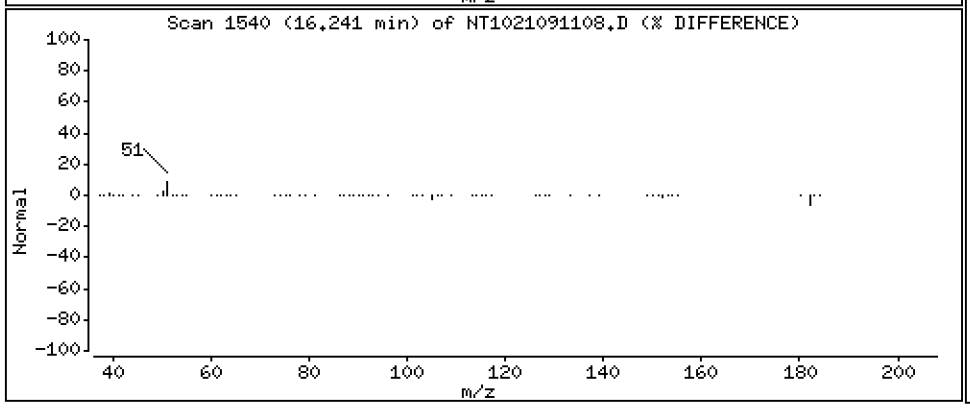
111 Azobenzene (1,2-DP-Hydrazine)

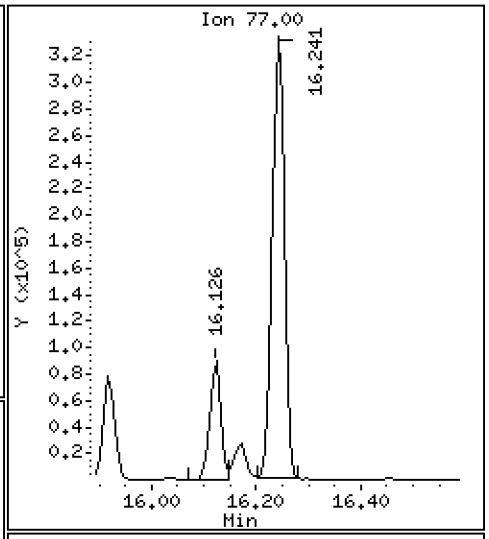
Concentration: 5.190 ug/mL

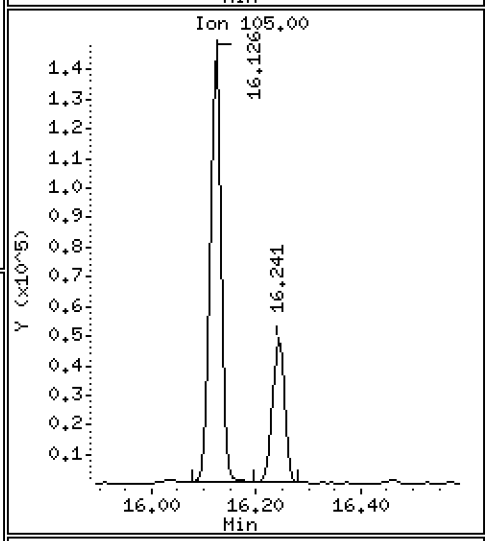


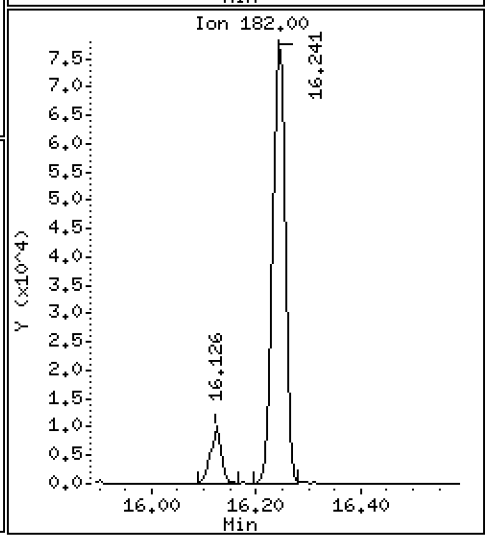












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

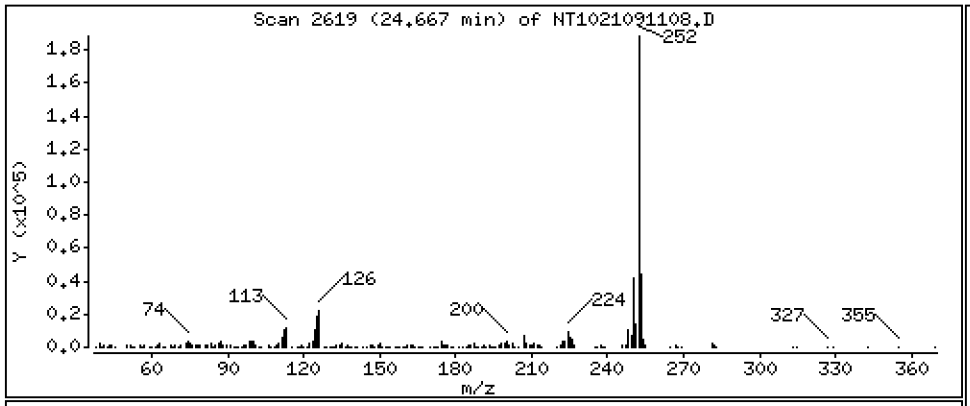
Operator: VTS

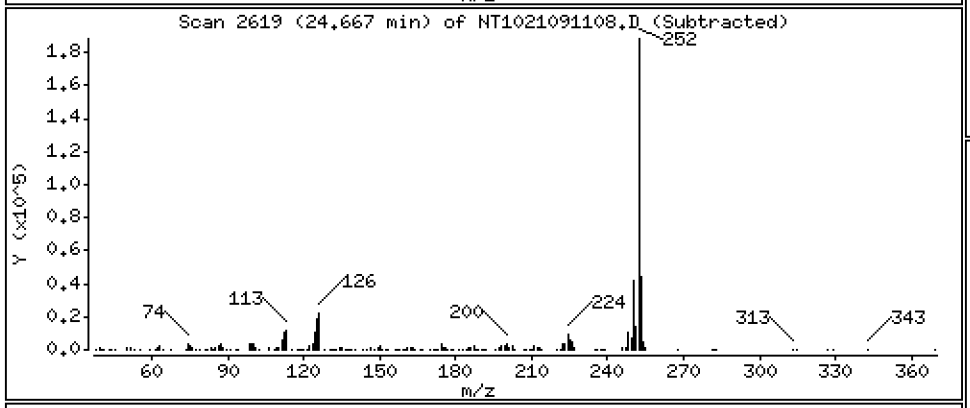
Column phase: ZB-5msi

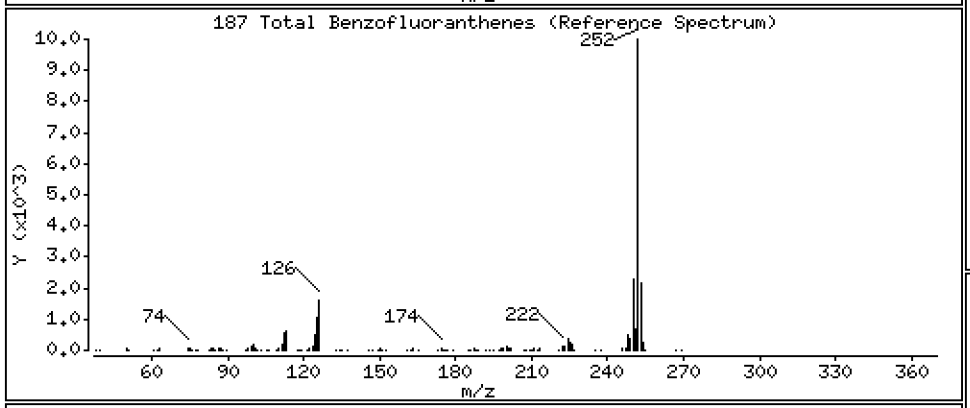
Column diameter: 0.25

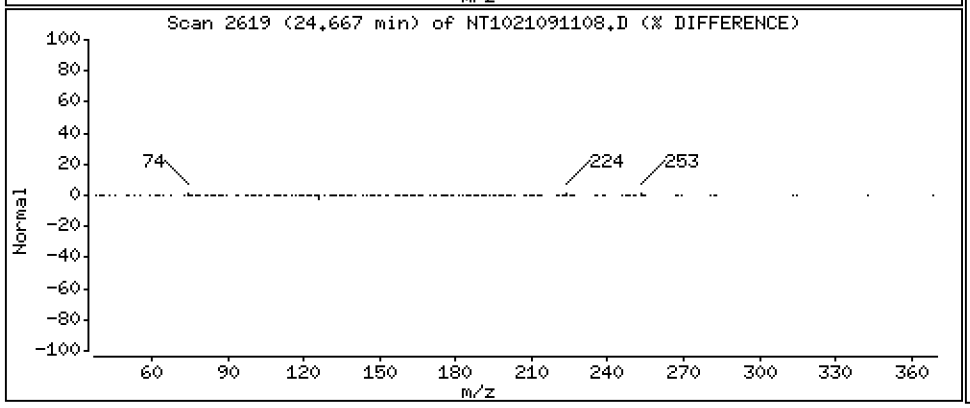
187 Total Benzofluoranthenes

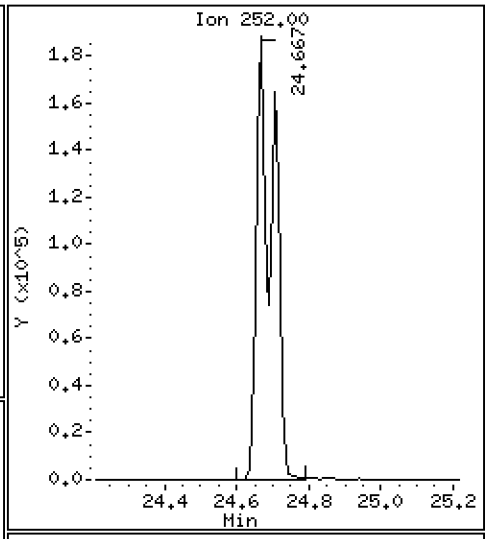
Concentration: 8.451 ug/mL

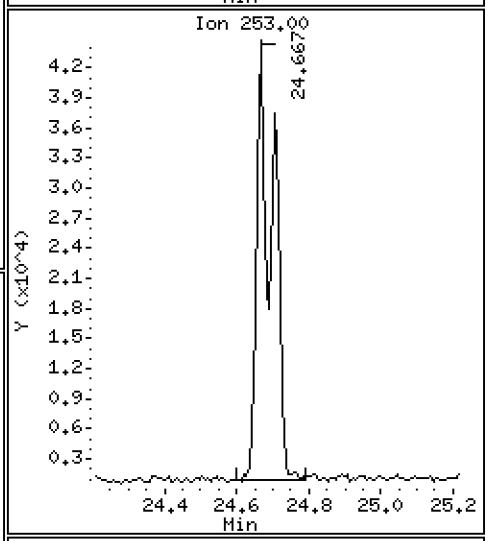


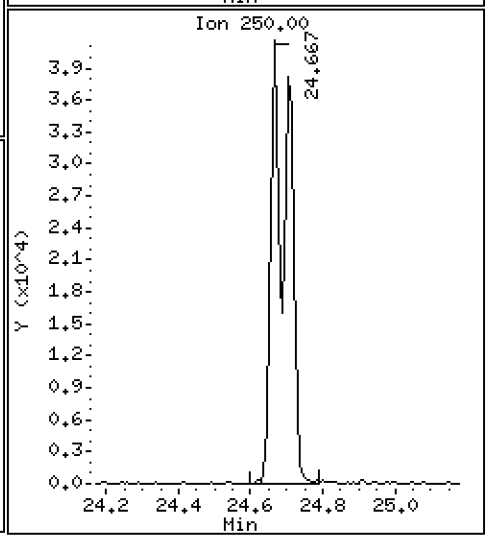












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Date : 11-SEP-2021 14:55

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BS1

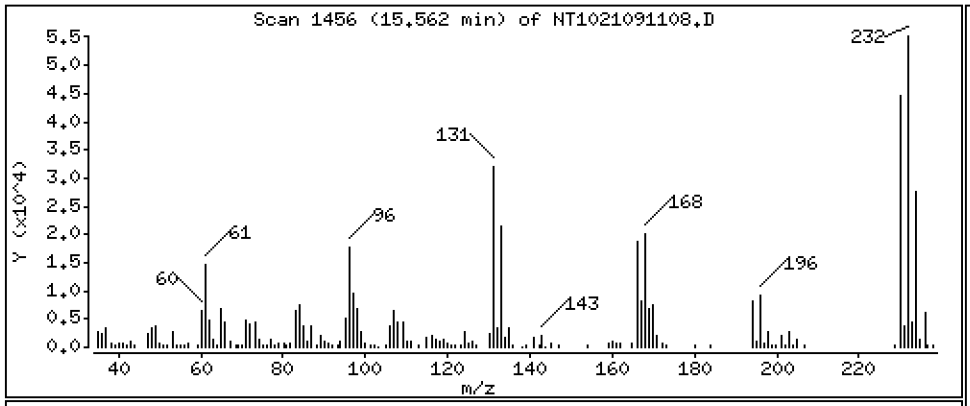
Operator: VTS

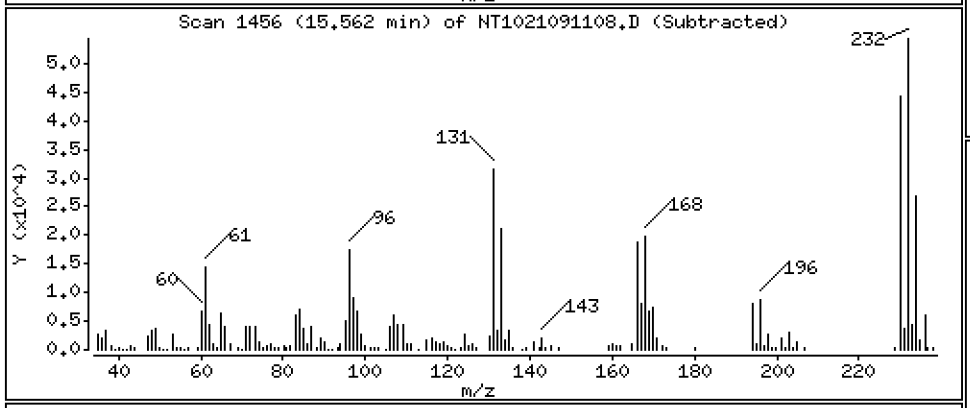
Column phase: ZB-5msi

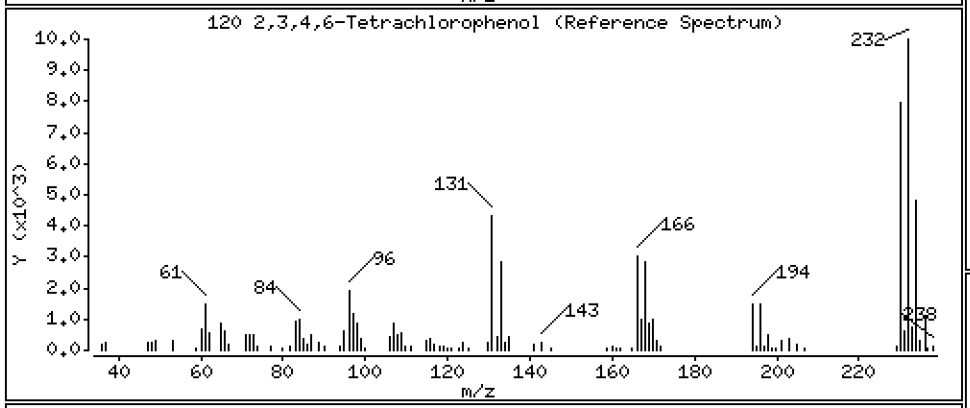
Column diameter: 0.25

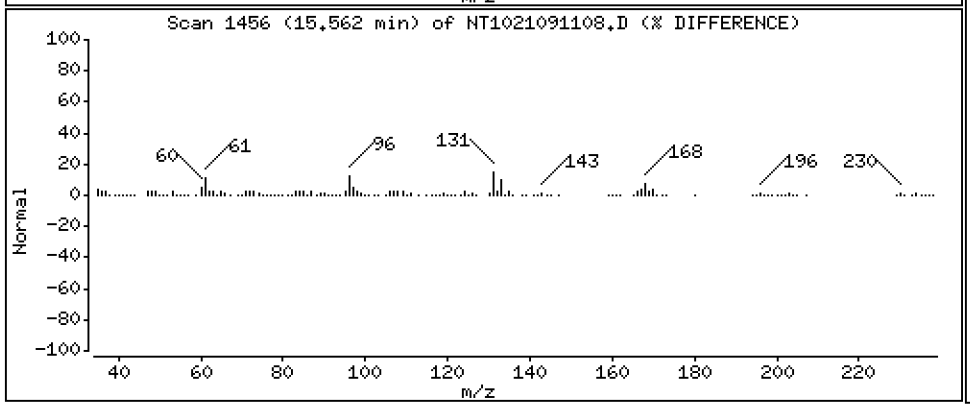
120 2,3,4,6-Tetrachlorophenol

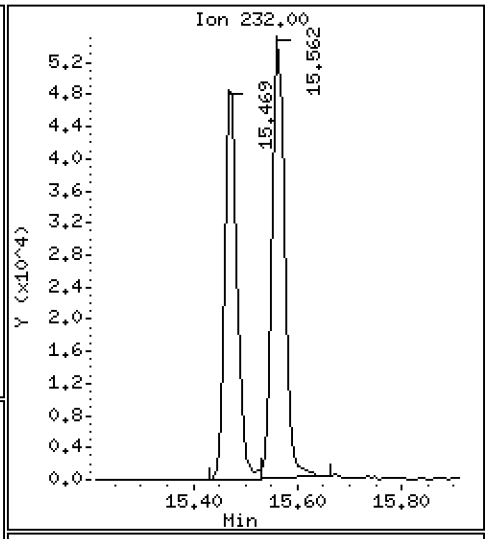
Concentration: 4.156 ug/mL

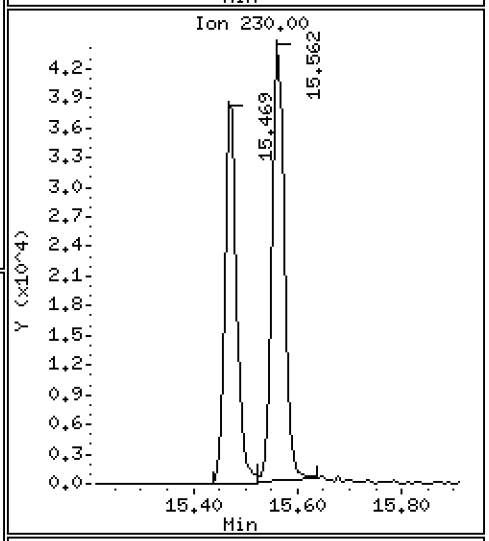


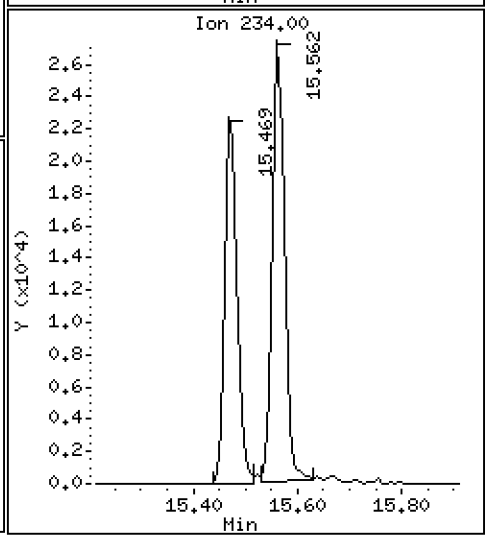












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BJH0655-BS1
Inj Date : 11-SEP-2021 14:55
Operator : VTS Inst ID: nt10.i
Smp Info : BJH0655-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1 2-Fluorophenol	112	6.651	6.635	(0.754)	288788	6.24832	6.248
$ 2 Phenol-d5	99	8.212	8.204	(0.932)	442148	6.68402	6.684
3 Phenol	94	8.227	8.227	(0.933)	232093	3.83344	3.833
$ 5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	300173	6.37017	6.370
4 Bis(2-Chloroethyl)ether	93	8.366	8.366	(0.949)	174725	3.94444	3.944
6 2-Chlorophenol	128	8.490	8.490	(0.963)	184063	3.66379	3.664
7 1,3-Dichlorobenzene	146	8.745	8.745	(0.992)	201012	3.84809	3.848
* 8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	138244	4.00000	
9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	178456	4.51249	4.512
$ 10 1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	129247	4.03787	4.038
12 1,2-Dichlorobenzene	146	9.196	9.188	(1.043)	179152	3.98061	3.981
11 Benzyl alcohol	108	9.087	9.087	(1.031)	100254	3.59982	3.600
14 2,2'-oxybis(1-Chloropropane)	121	9.382	9.374	(1.064)	62598	4.68959	4.690
13 2-Methylphenol	108	9.320	9.320	(1.057)	143946	3.75368	3.754
17 Hexachloroethane	117	9.770	9.778	(1.108)	86129	5.03565	5.036
16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	118349	4.39960	4.400
15 4-Methylphenol	108	9.591	9.584	(1.088)	166778	4.07164	4.072
$ 18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	245695	5.15522	5.155
19 Nitrobenzene	77	9.925	9.925	(0.881)	226412	5.15263	5.153
20 Isophorone	82	10.367	10.367	(0.921)	435360	6.41090	6.411
21 2-Nitrophenol	139	10.545	10.545	(0.937)	118861	4.74979	4.750
22 2,4-Dimethylphenol	107	10.613	10.605	(0.943)	488299	12.6448	12.64
23 Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	172154	4.29436	4.294
24 Benzoic acid	105	10.817	10.834	(0.961)	348802	17.4618	17.46
25 2,4-Dichlorophenol	162	11.004	11.004	(0.977)	541335	13.6785	13.68
26 1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	151655	3.95922	3.959
* 27 Naphthalene-d8	136	11.260	11.260	(1.000)	455184	4.00000	
28 Naphthalene	128	11.299	11.306	(1.003)	460966	4.08207	4.082
29 4-Chloroaniline	127	11.438	11.437	(1.016)	551180	10.0742	10.07
30 Hexachlorobutadiene	225	11.654	11.654	(1.035)	95635	4.53807	4.538
31 4-Chloro-3-methylphenol	107	12.405	12.405	(1.102)	616968	15.5140	15.51
32 2-Methylnaphthalene	142	12.683	12.675	(1.126)	437238	4.05736	4.057
33 Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	229614	10.8239	10.82

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	396790	13.6501	13.65
	35 2,4,5-Trichlorophenol	196	13.380	13.380	(0.902)	425497	13.9333	13.93
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	518944	4.53120	4.531
	37 2-Chloronaphthalene	162	13.658	13.658	(0.921)	421516	4.62323	4.623
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	435218	16.0766	16.08
	39 Dimethylphthalate	163	14.355	14.347	(0.968)	424249	4.51253	4.513
	40 Acenaphthylene	152	14.525	14.525	(0.979)	536688	3.77785	3.778
	41 2,6-Dinitrotoluene	165	14.494	14.486	(0.977)	316460	15.2416	15.24
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	286657	4.00000	
	43 3-Nitroaniline	138	14.773	14.773	(0.996)	316179	11.3098	11.31
	44 Acenaphthene	153	14.897	14.896	(1.004)	315806	4.20282	4.203
	45 2,4-Dinitrophenol	184	14.989	14.982	(1.010)	236718	20.9024	20.90
	46 Dibenzofuran	168	15.221	15.221	(1.026)	515687	3.86210	3.862
	47 4-Nitrophenol	109	15.121	15.113	(1.019)	172711	16.9248	16.92
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	436129	15.0477	15.05
	50 Diethylphthalate	149	15.793	15.793	(1.065)	411477	4.85558	4.856
	49 Fluorene	166	15.925	15.925	(1.073)	486754	4.10745	4.107
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	235159	4.43330	4.433
	52 4-Nitroaniline	138	16.033	16.025	(1.081)	315676	10.8600	10.86
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	479250	25.1915	25.19
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	309730	4.49285	4.493
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	82876	7.52259	7.523
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	143860	5.20625	5.206
	57 Hexachlorobenzene	284	17.221	17.221	(0.965)	124444	4.75077	4.751
	58 Pentachlorophenol	266	17.584	17.584	(0.986)	121446	12.1919	12.19
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	460903	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	466131	4.14237	4.142
	61 Anthracene	178	17.979	17.979	(1.008)	480690	3.97586	3.976
	62 Carbazole	167	18.312	18.312	(1.026)	517097	4.15277	4.153
	63 Di-n-butylphthalate	149	19.116	19.116	(1.072)	809237	5.25315	5.253
	64 Fluoranthene	202	20.277	20.269	(0.886)	703114	5.83897	5.839
	65 Pyrene	202	20.695	20.695	(0.904)	689387	5.57810	5.578
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	427049	5.49898	5.499
	67 Butylbenzylphthalate	149	21.918	21.918	(0.958)	272557	5.60360	5.604
	68 Benzo(a)anthracene	228	22.855	22.863	(0.999)	426760	4.44042	4.440
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	275098	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.824	22.824	(0.997)	407150	10.6479	10.65
	71 Chrysene	228	22.932	22.932	(1.002)	307024	4.02962	4.030
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	268862	4.82097	4.821
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	579481	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	540625	4.23299	4.233
	74 Benzo(b)fluoranthene	252	24.666	24.674	(0.972)	341219	4.51215	4.512
	75 Benzo(k)fluoranthene	252	24.705	24.713	(0.973)	300522	4.05382	4.054
	76 Benzo(a)pyrene	252	25.270	25.270	(0.996)	273356	4.09196	4.092
*	77 Perylene-d12	264	25.379	25.379	(1.000)	205549	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.804	27.812	(1.096)	311753	4.51745	4.517
	79 Dibenzo(a,h)anthracene	278	27.812	27.819	(1.096)	243982	4.62108	4.621
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	245020	4.06560	4.066
	90 N-Nitrosodimethylamine	74	4.535	4.504	(0.514)	263548	8.85464	8.855
	91 Aniline	93	8.281	8.281	(0.939)	634274	9.17640	9.176
	93 Benzidine	184	20.687	20.517	(0.904)	163	0.00313	0.003127
	103 Pyridine	79	4.566	4.519	(0.518)	24005	0.25529	0.2553
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	419724	4.03792	4.038
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.241	16.241	(1.095)	507534	5.19046	5.190

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.666	24.713	(0.972)	609712	8.45110	8.451
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	87601	4.15593	4.156

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091108.D
Lab Smp Id: BJH0655-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	138244	0.39
27 Naphthalene-d8	447216	223608	894432	455184	1.78
42 Acenaphthene-d10	264765	132383	529530	286657	8.27
59 Phenanthrene-d10	428682	214341	857364	460903	7.52
69 Chrysene-d12	221118	110559	442236	275098	24.41
134 Di-n-octylphthala	404470	202235	808940	579481	43.27
77 Perylene-d12	154408	77204	308816	205549	33.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091108.D

Lab ID: BJH0655-BS1
nt10.i, ABN.m, 11-SEP-2021 14:55

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.904	0.896	0.0074	Benzidine
0.518	0.513	0.0052	Pyridine

RRT check based on Ccal File: NT1021091106.D

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

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

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

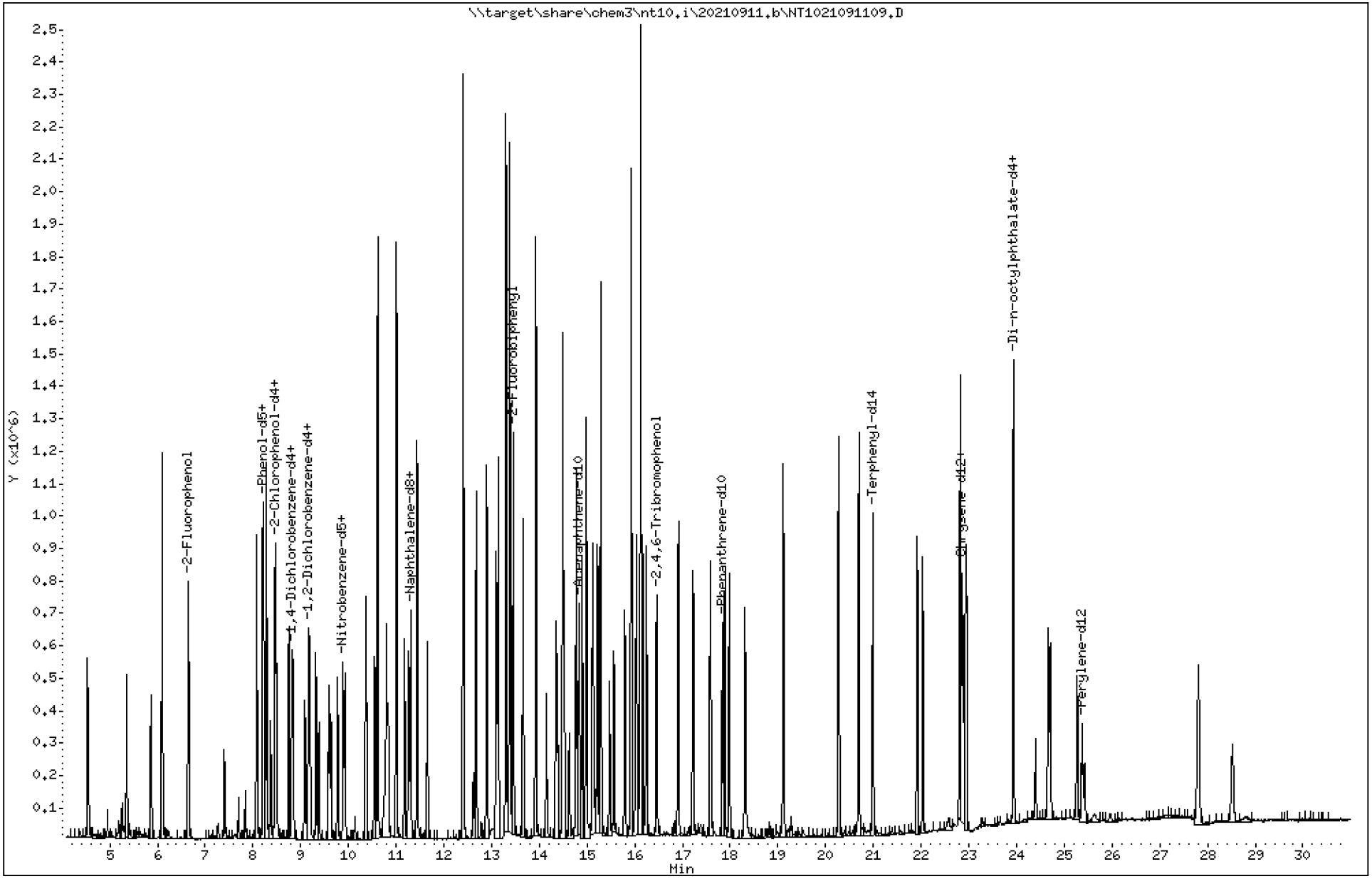
Instrument: nt10.i

Sample Info: BJH0655-BSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

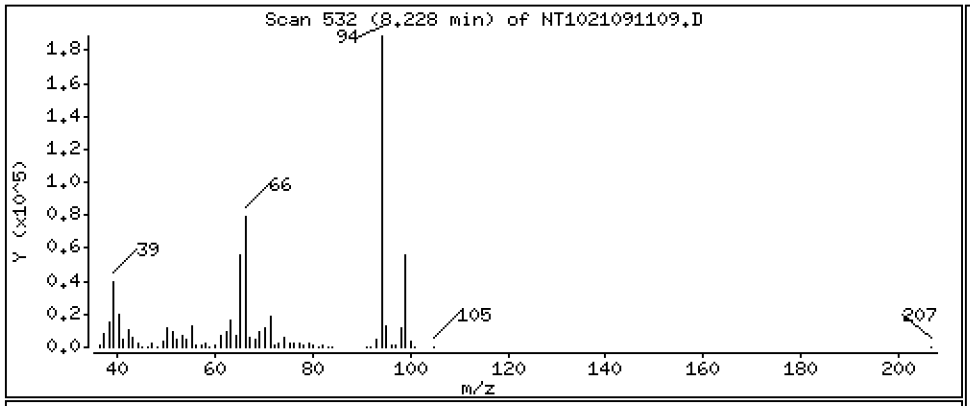
Operator: VTS

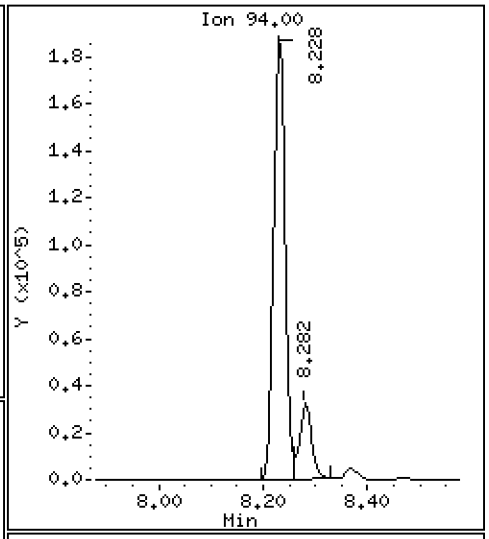
Column phase: ZB-5msi

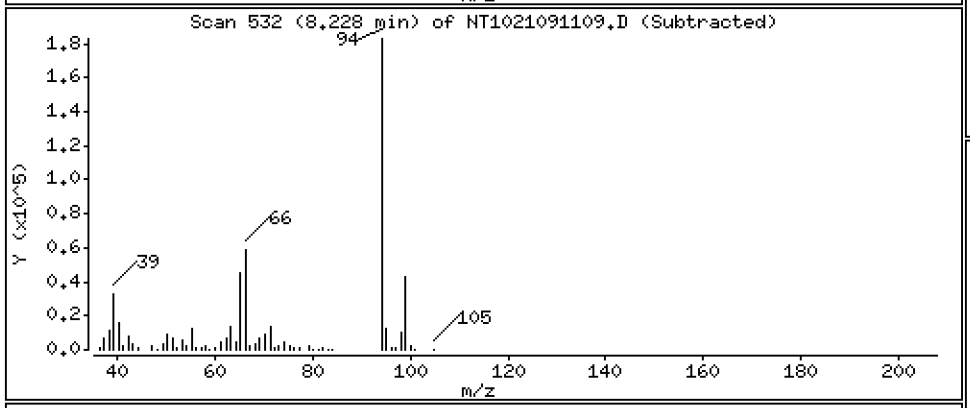
Column diameter: 0.25

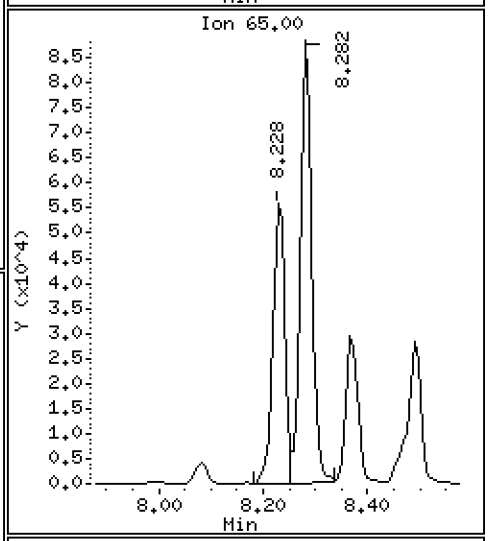
3 Phenol

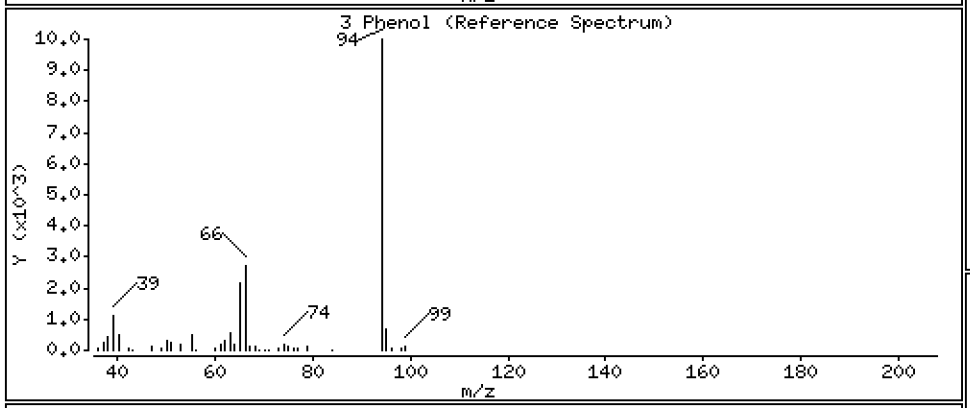
Concentration: 4.600 ug/mL

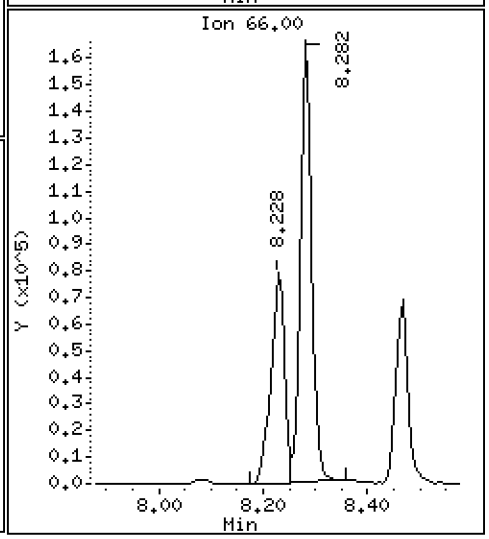


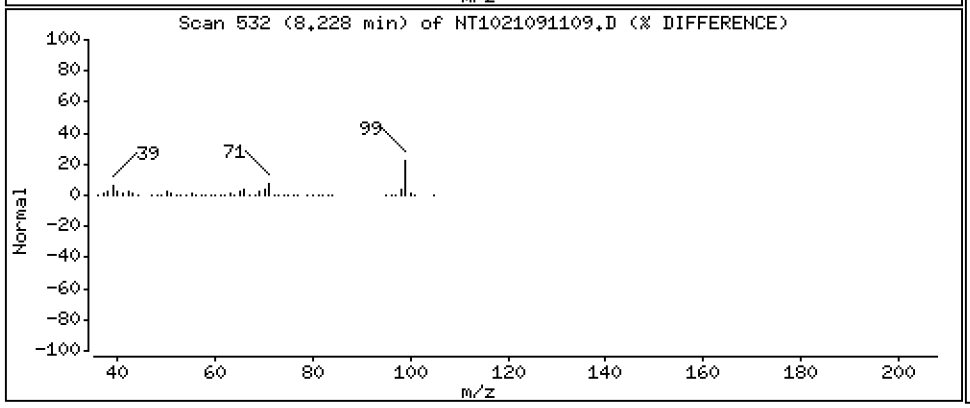












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

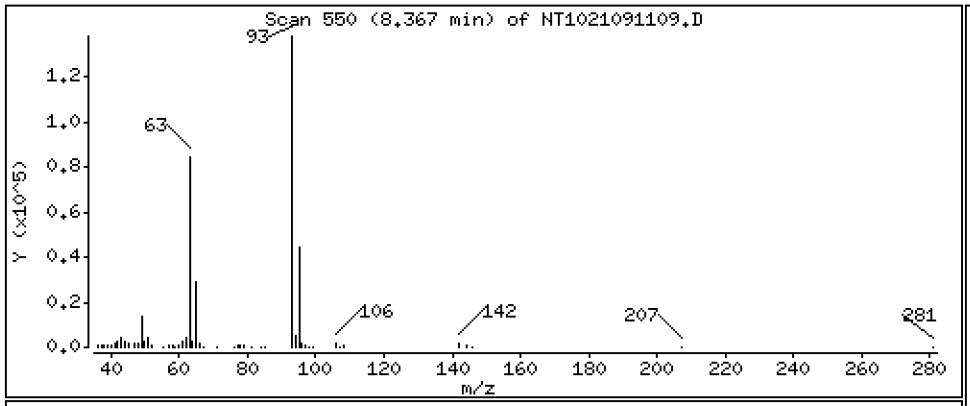
Operator: VTS

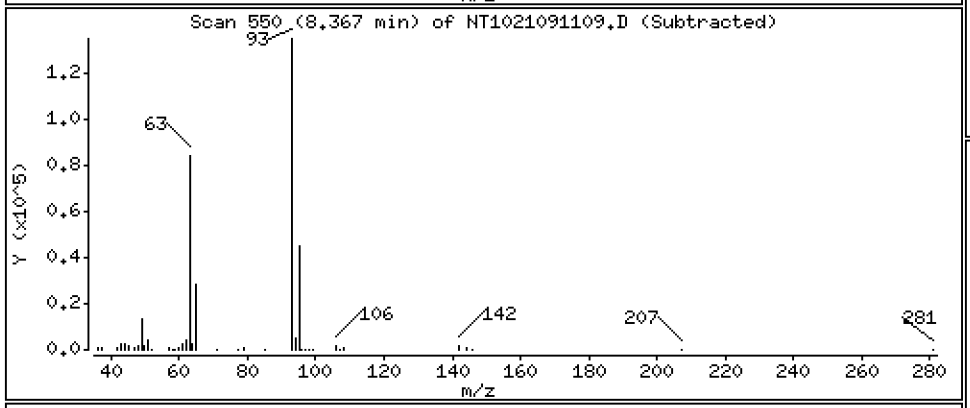
Column phase: ZB-5msi

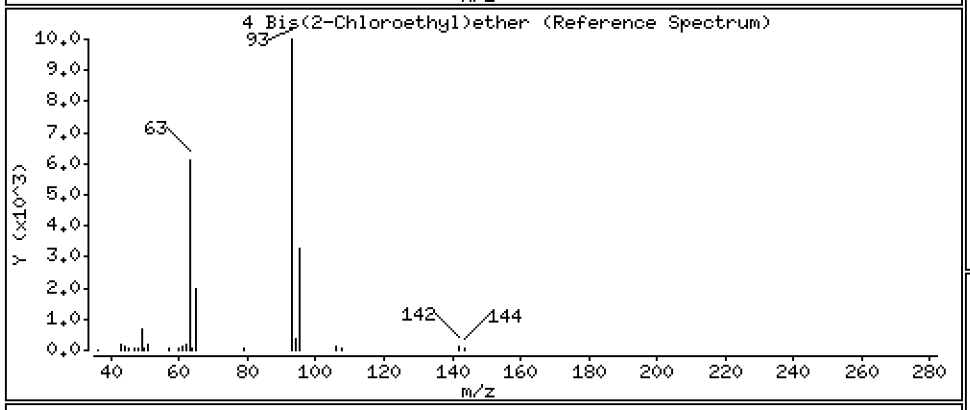
Column diameter: 0.25

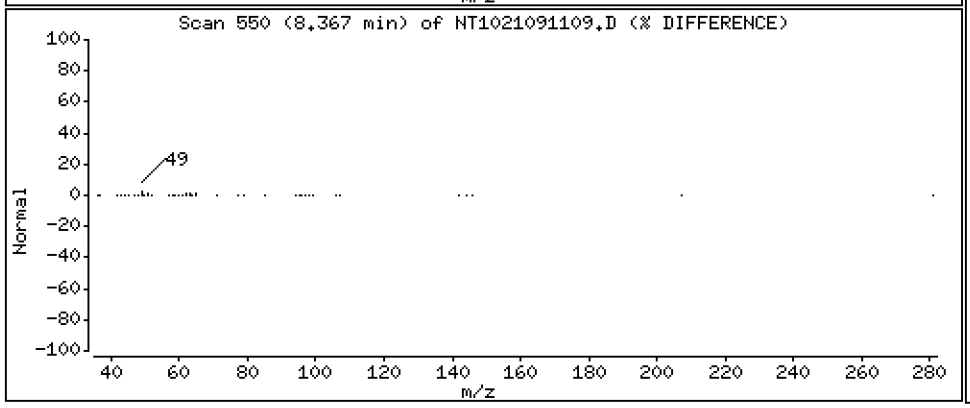
4 Bis(2-Chloroethyl)ether

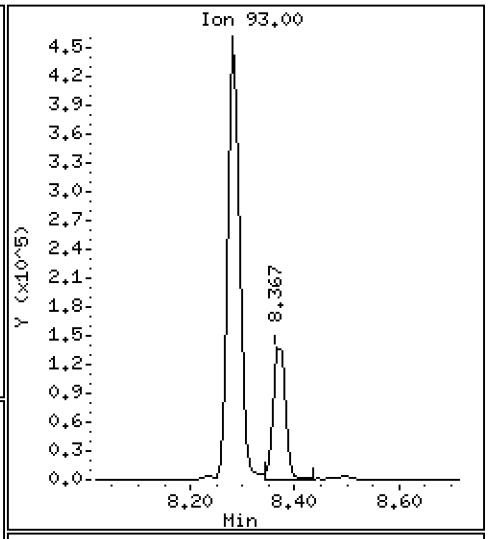
Concentration: 4.783 ug/mL

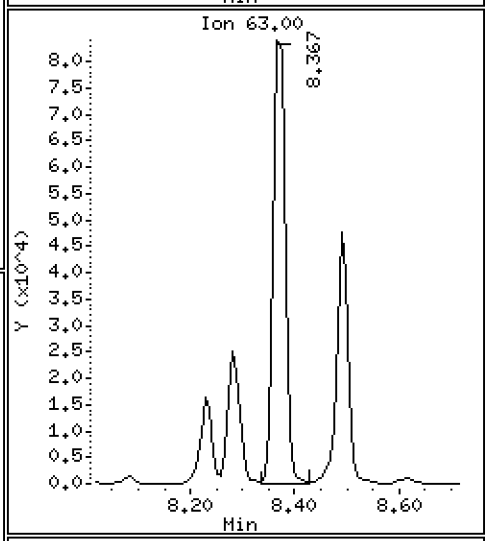


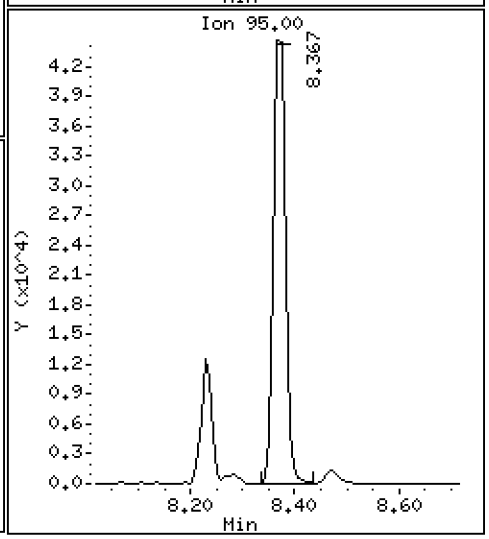












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

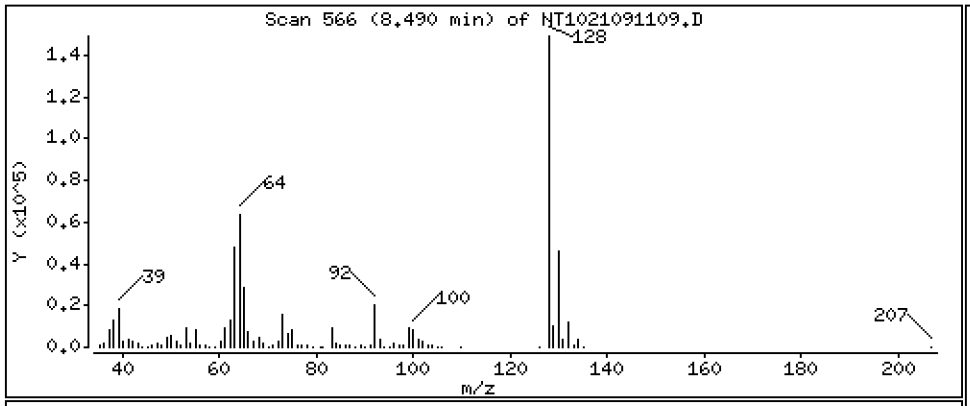
Operator: VTS

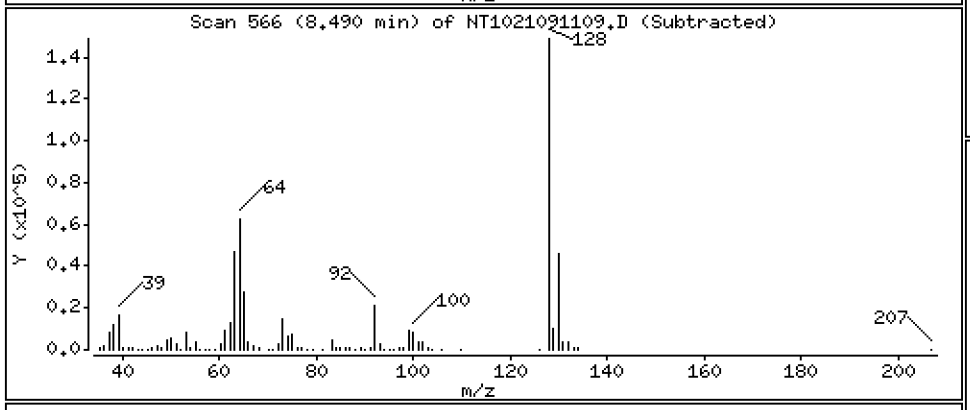
Column phase: ZB-5msi

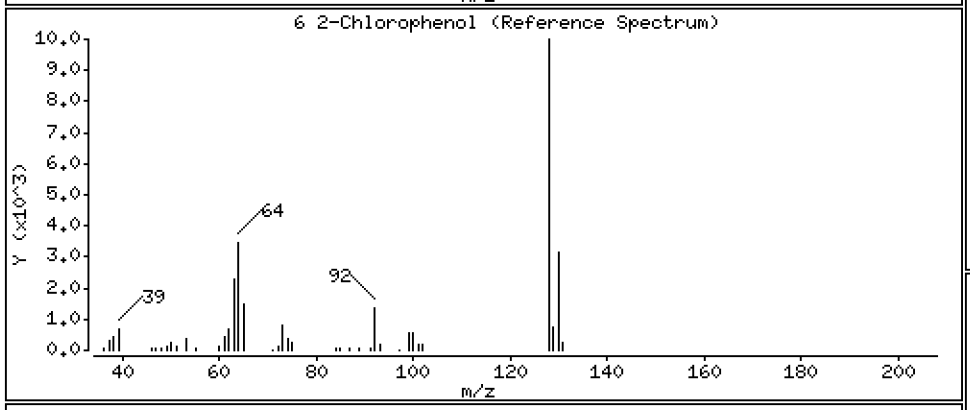
Column diameter: 0.25

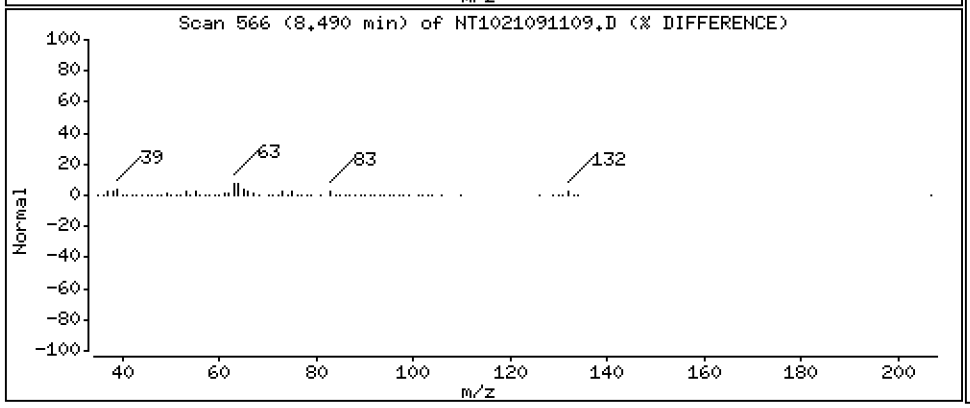
6 2-Chlorophenol

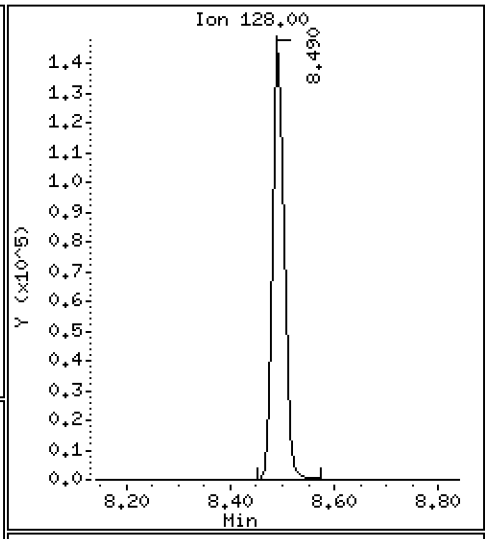
Concentration: 4.498 ug/mL

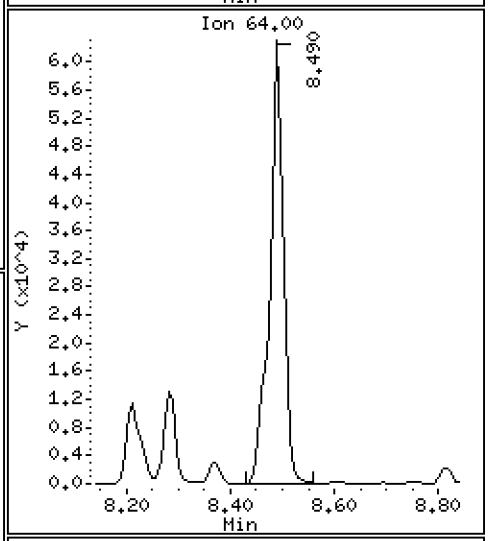


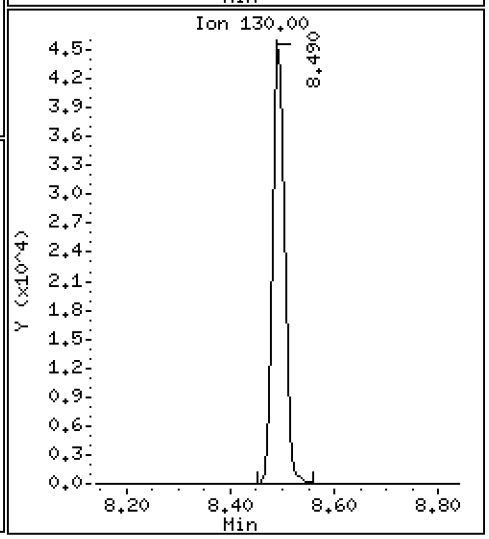












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

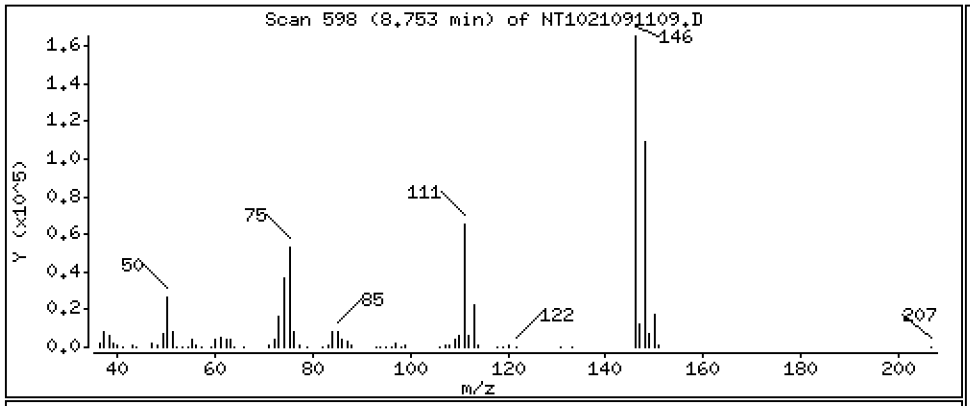
Operator: VTS

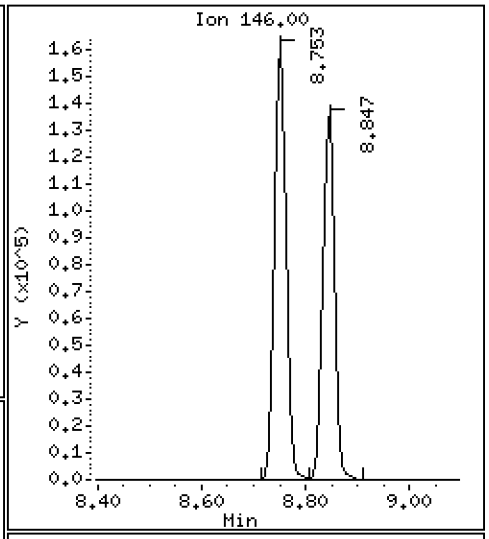
Column phase: ZB-5msi

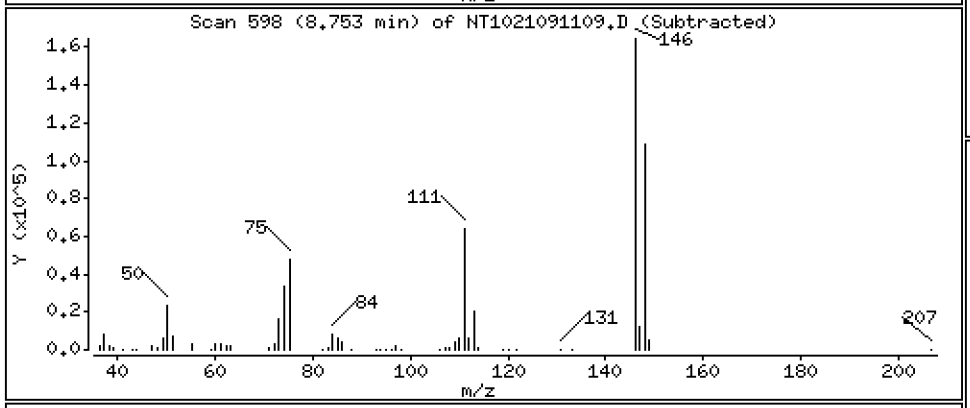
Column diameter: 0.25

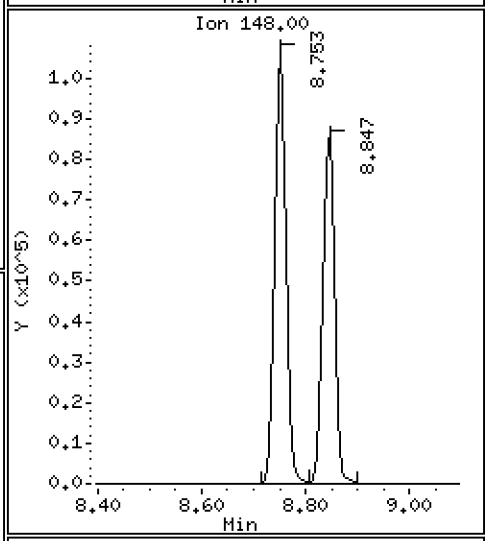
7 1,3-Dichlorobenzene

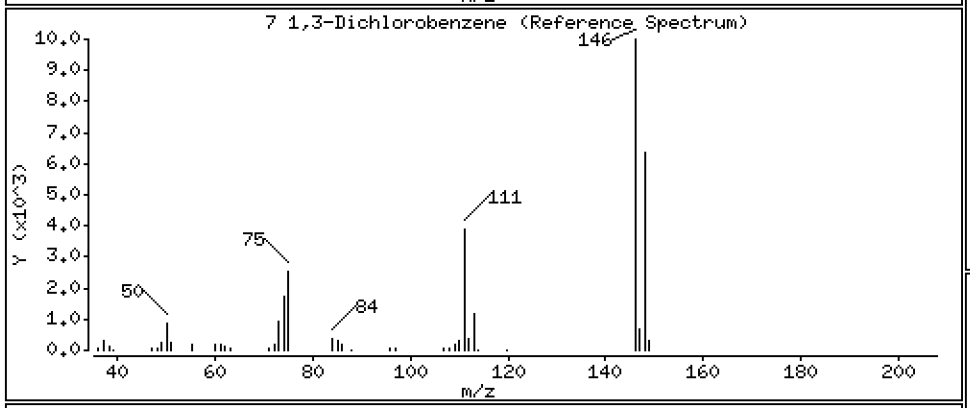
Concentration: 4.685 ug/mL

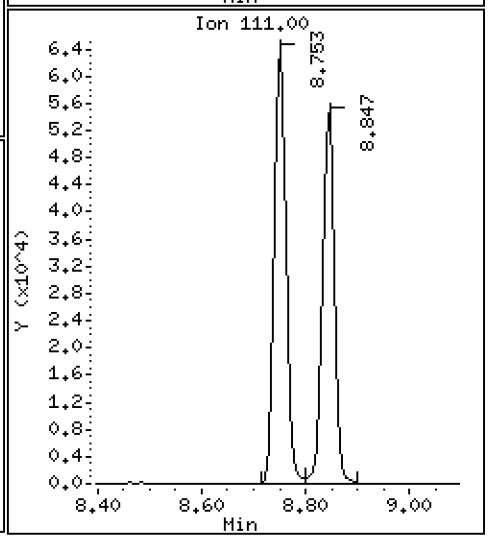


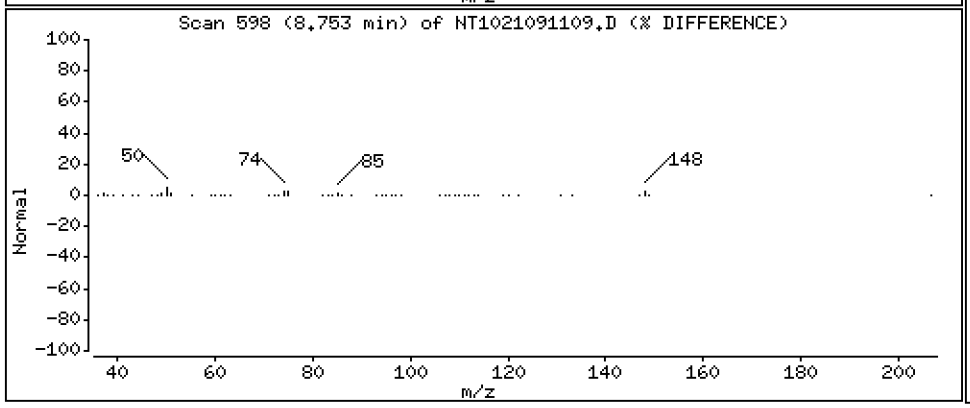












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

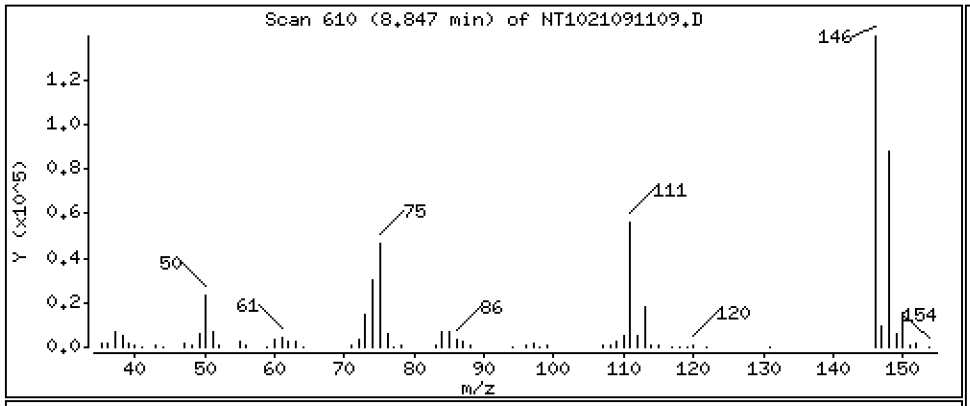
Operator: VTS

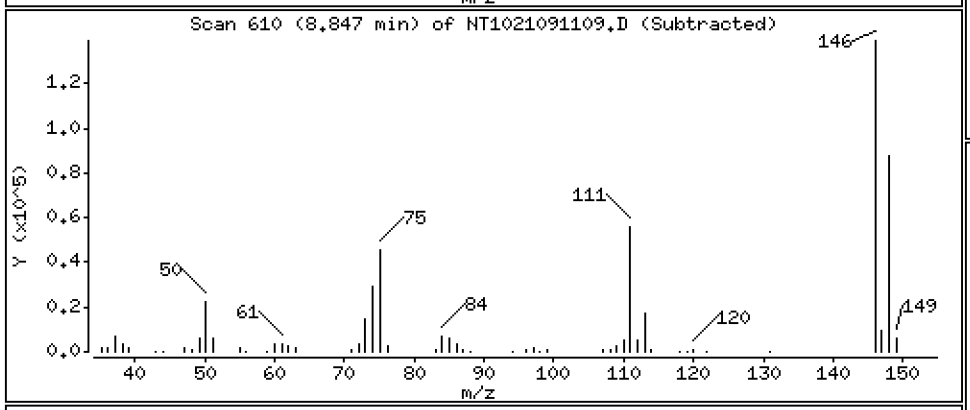
Column phase: ZB-5msi

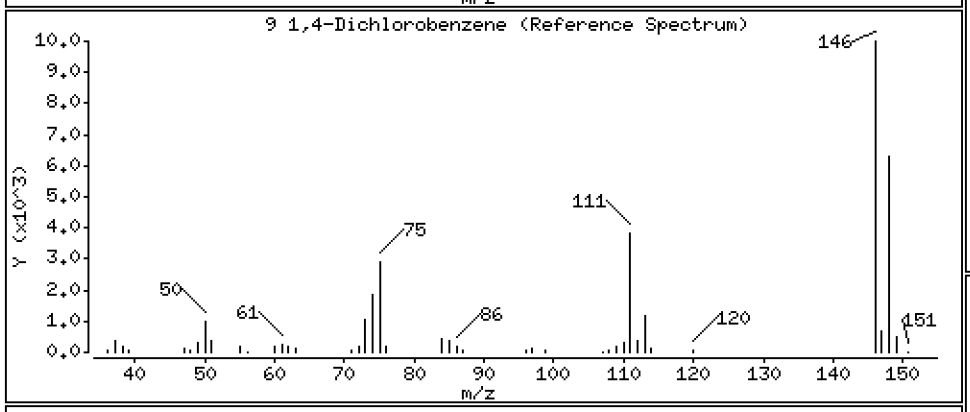
Column diameter: 0.25

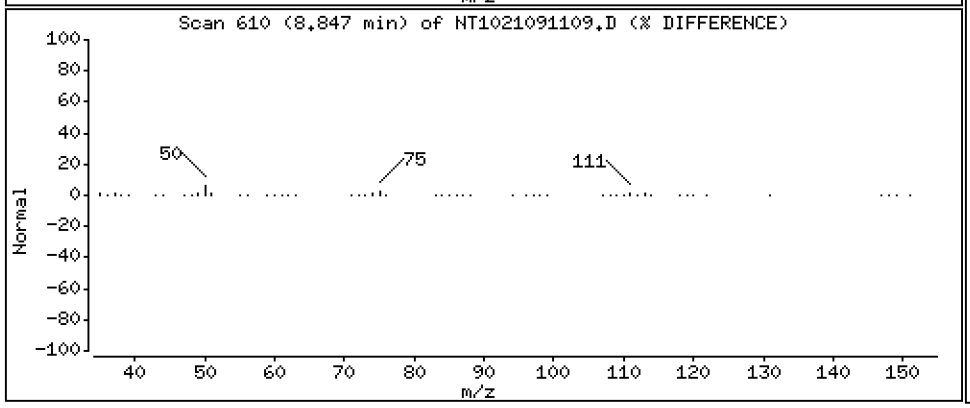
9 1,4-Dichlorobenzene

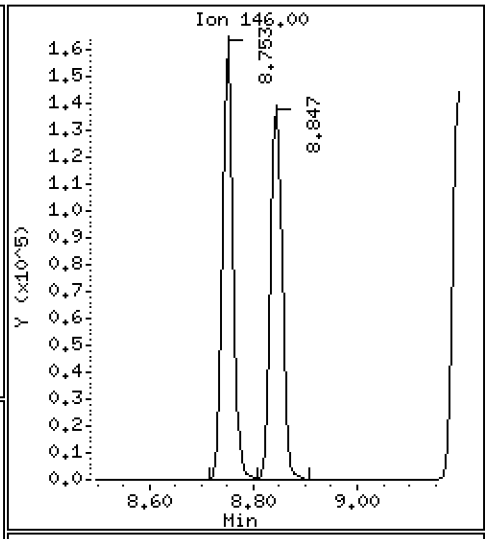
Concentration: 5.386 ug/mL

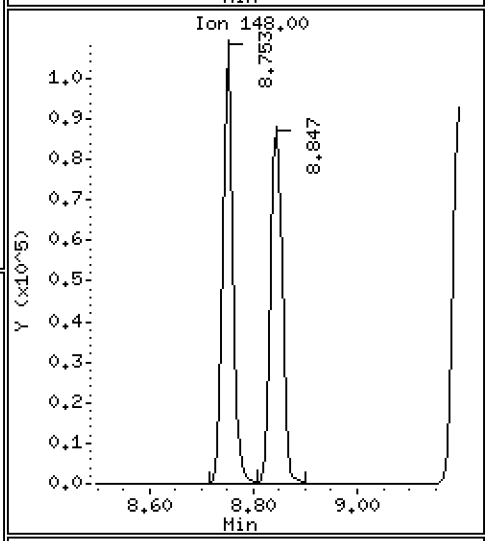


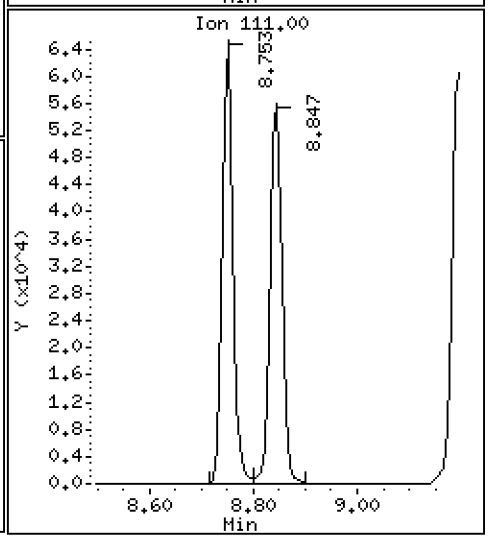












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

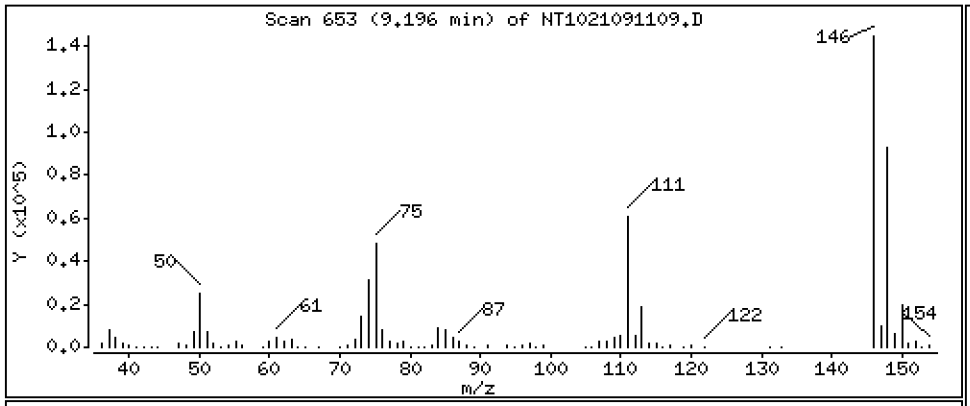
Operator: VTS

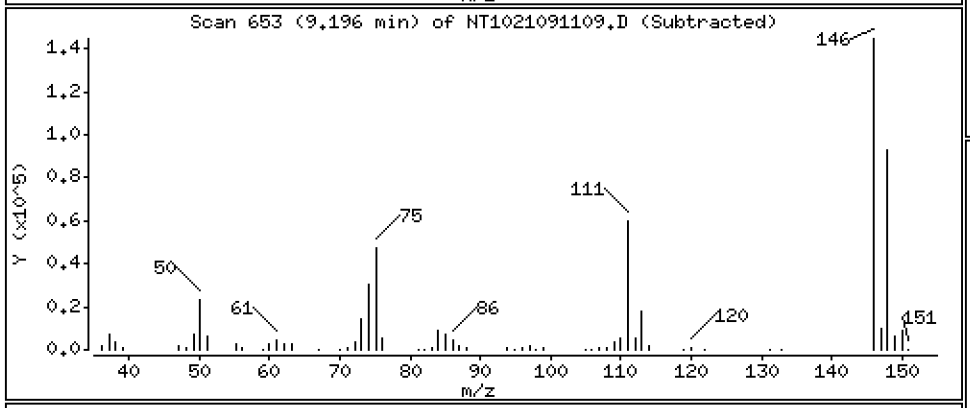
Column phase: ZB-5msi

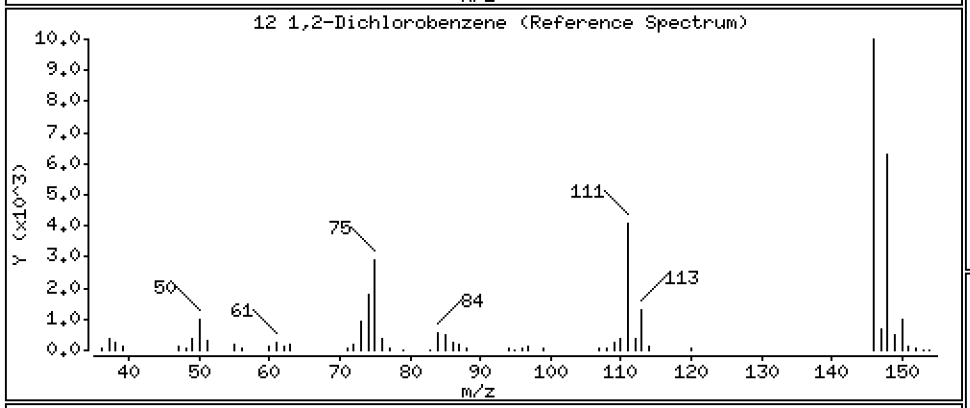
Column diameter: 0.25

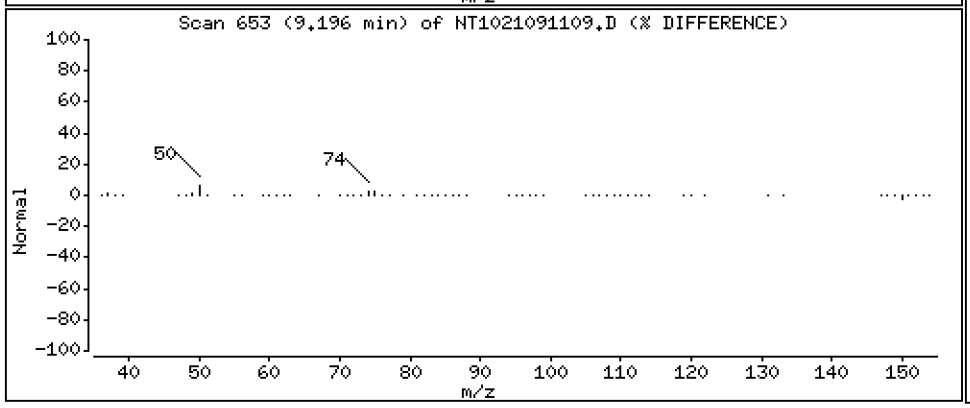
12 1,2-Dichlorobenzene

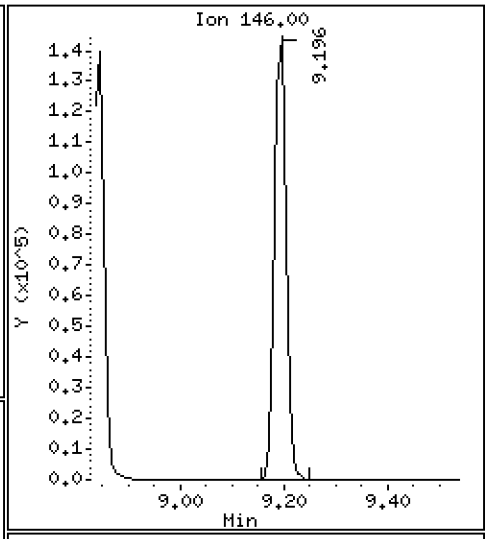
Concentration: 4.858 ug/mL

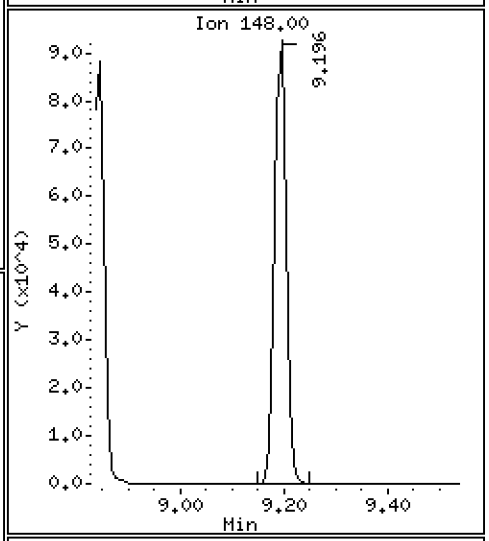


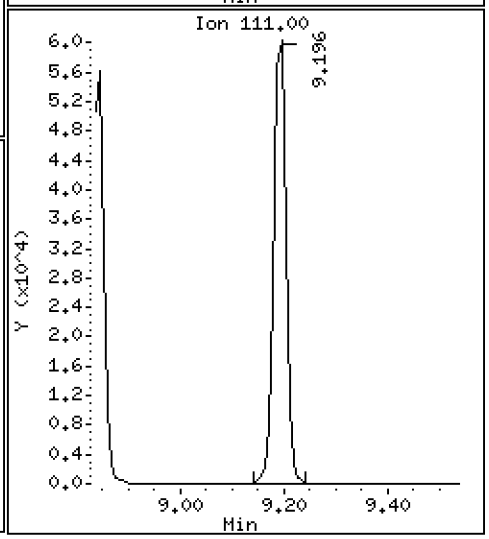












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

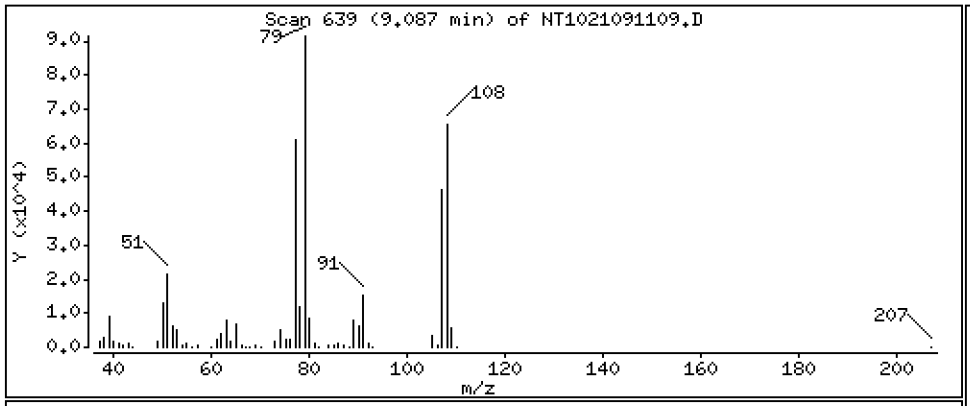
Operator: VTS

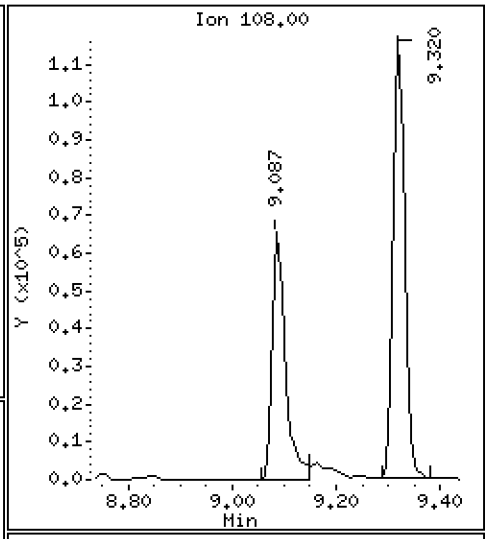
Column phase: ZB-5msi

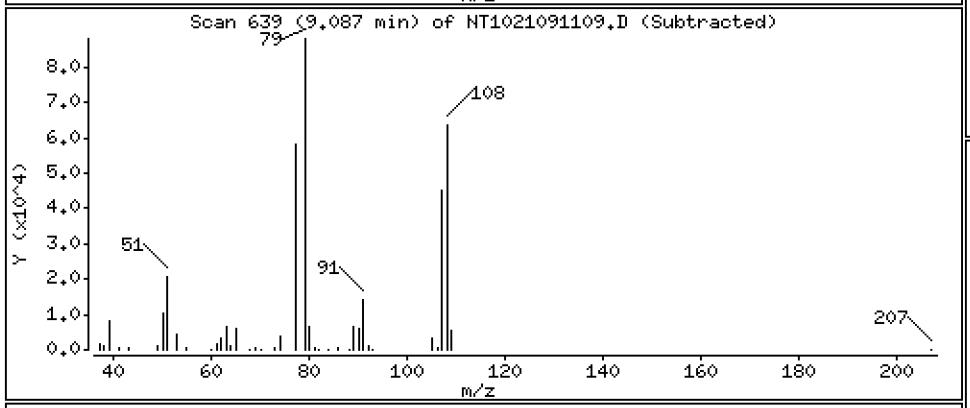
Column diameter: 0.25

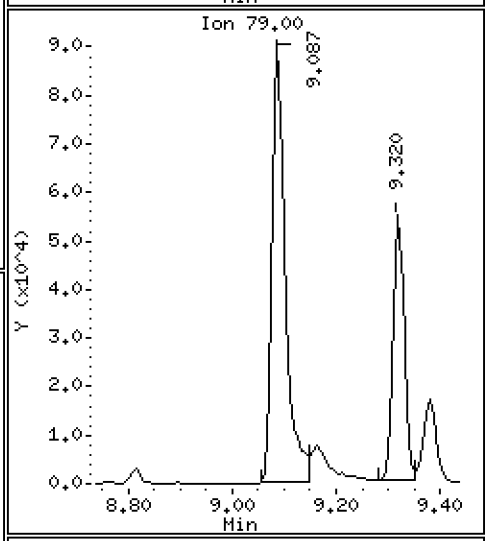
11 Benzyl alcohol

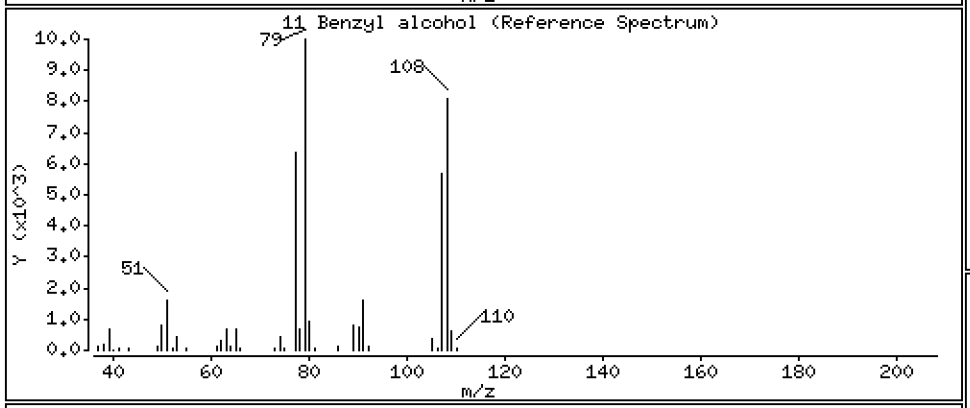
Concentration: 4.100 ug/mL

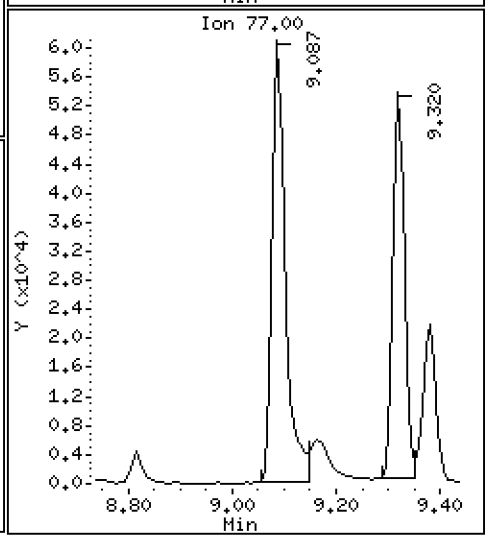


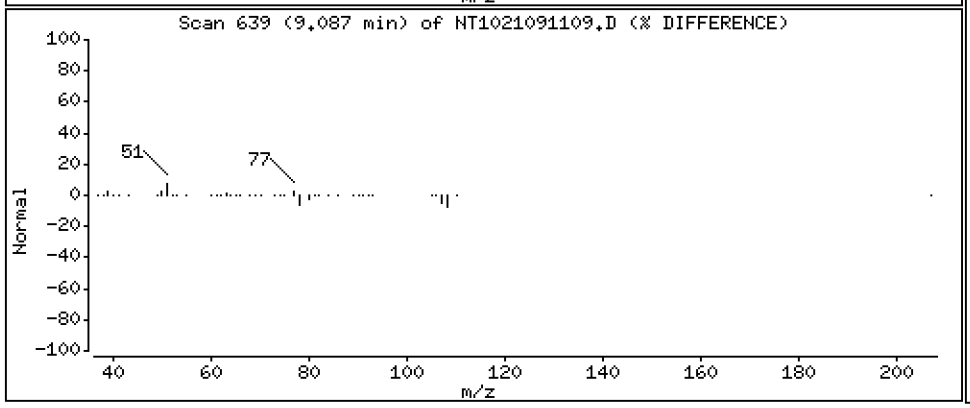












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

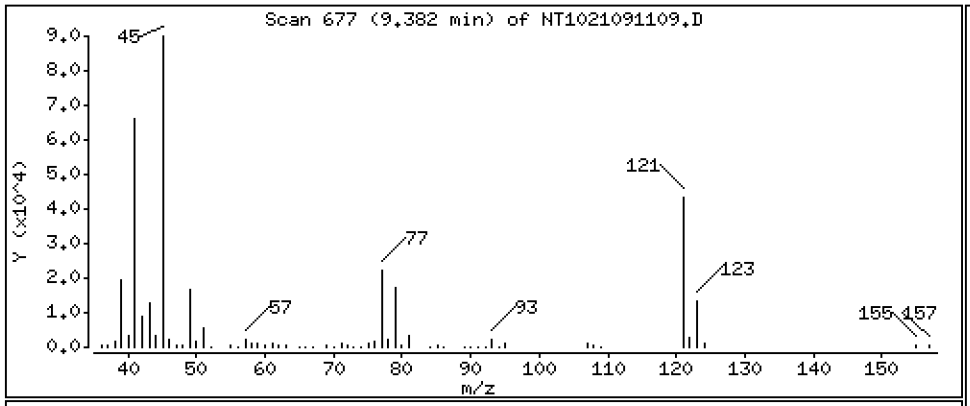
Operator: VTS

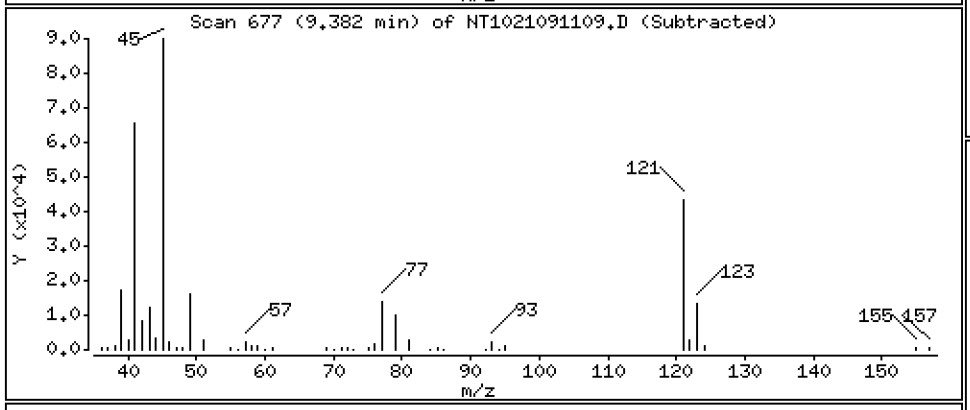
Column phase: ZB-5msi

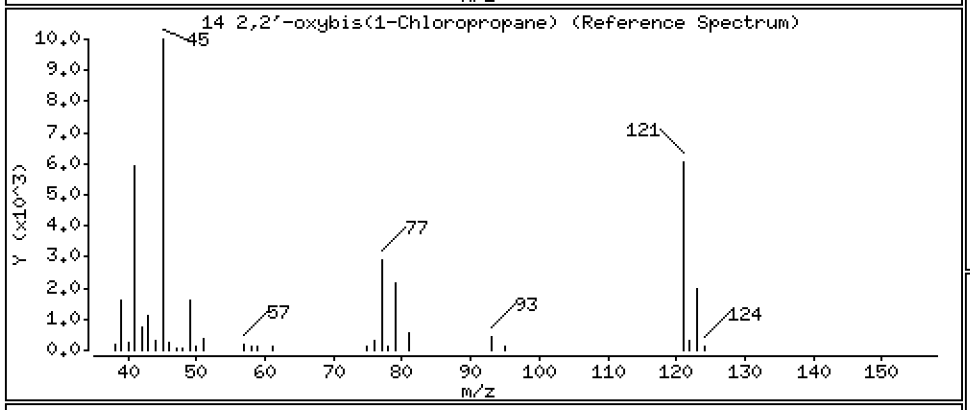
Column diameter: 0.25

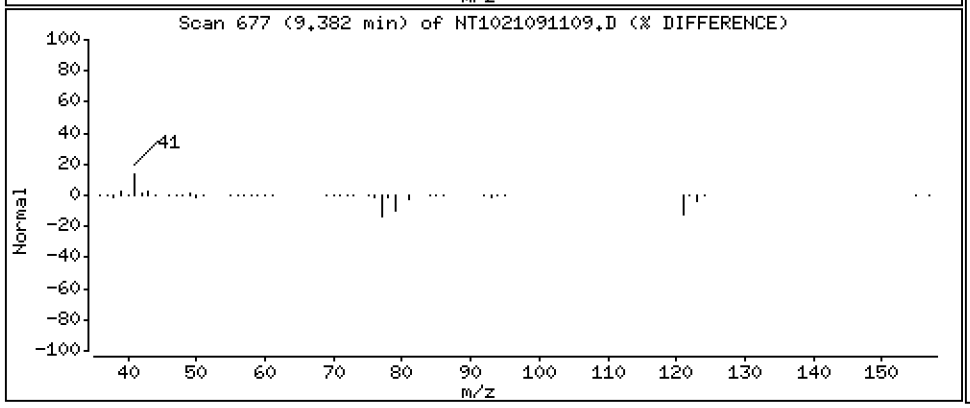
14 2,2'-oxybis(1-Chloropropane)

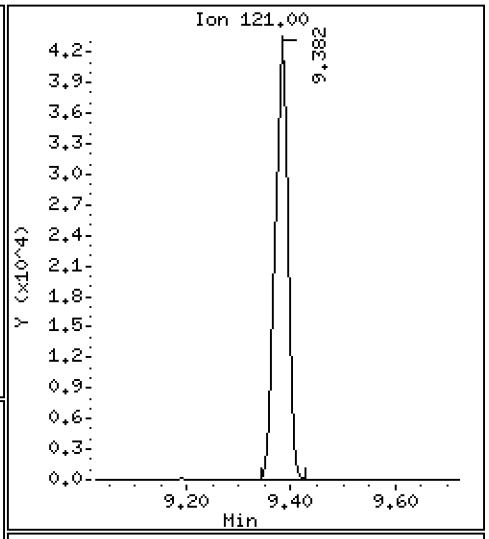
Concentration: 5.589 ug/mL

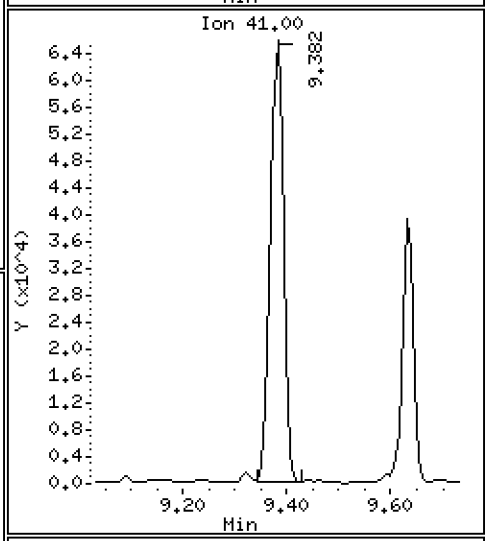


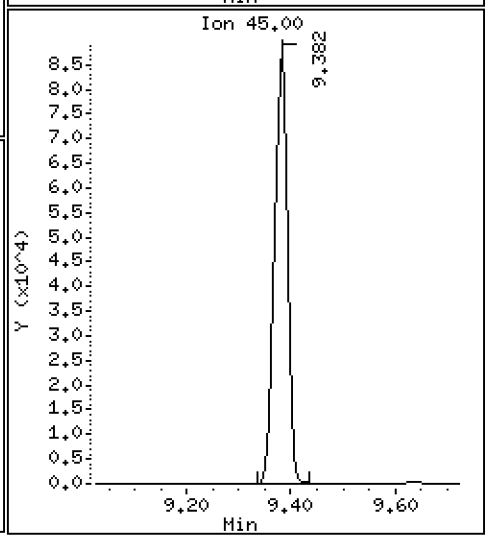












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

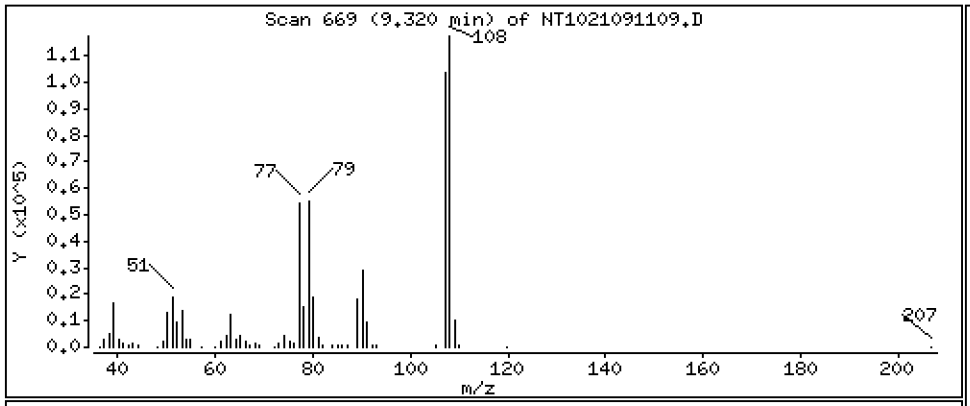
Operator: VTS

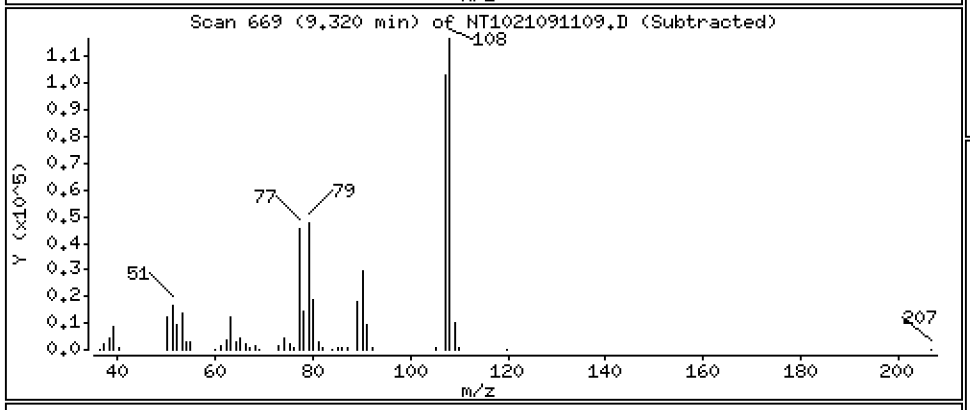
Column phase: ZB-5msi

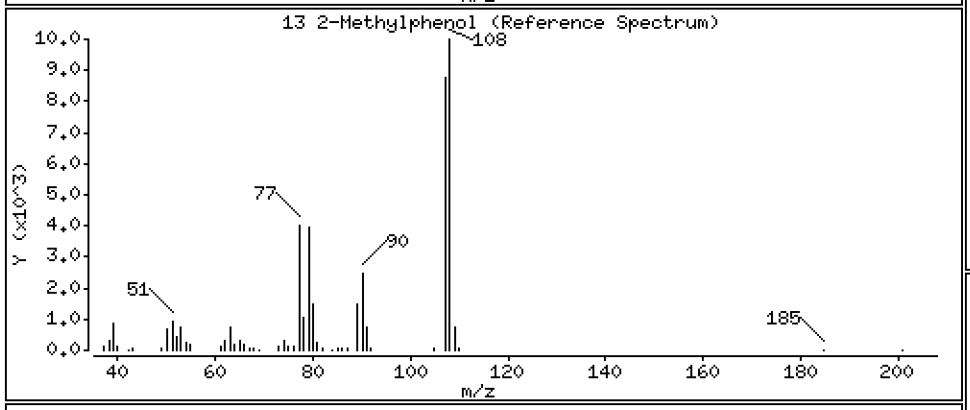
Column diameter: 0.25

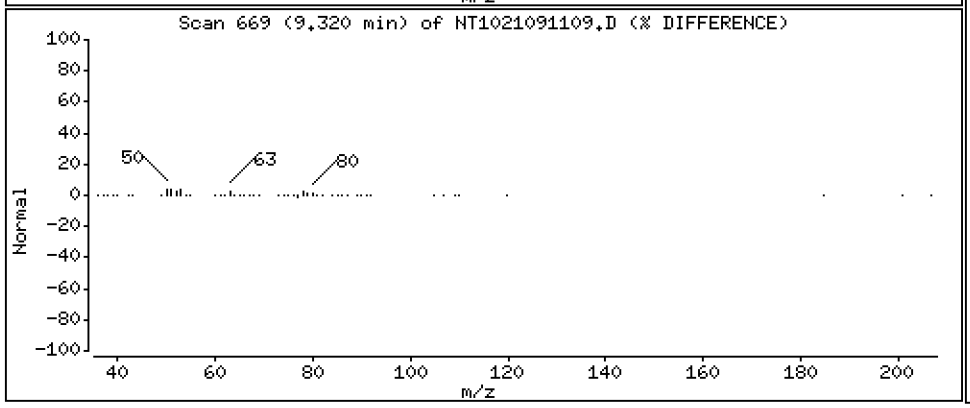
13 2-Methylphenol

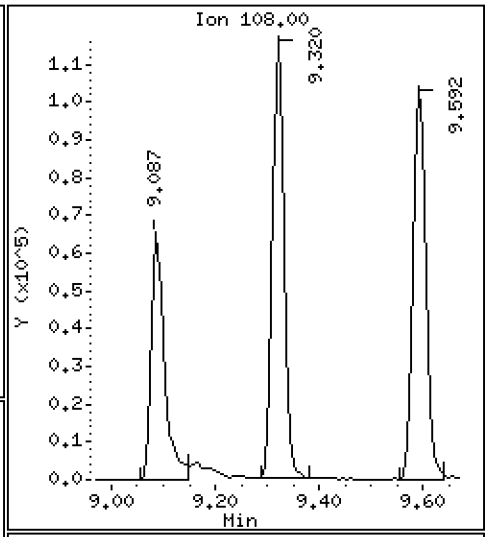
Concentration: 4.511 ug/mL

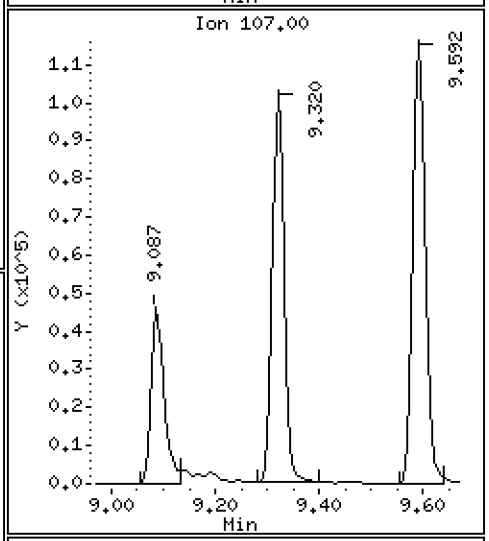


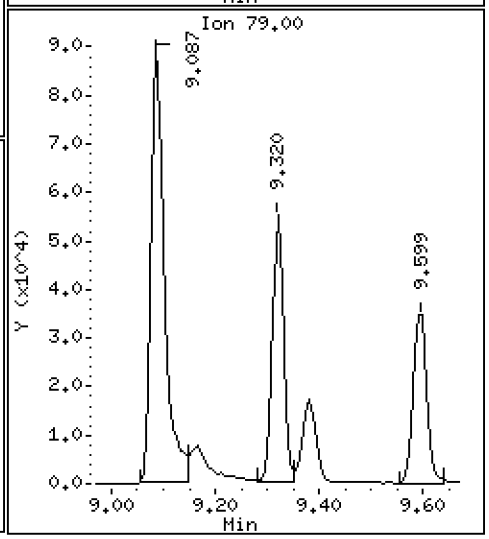












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

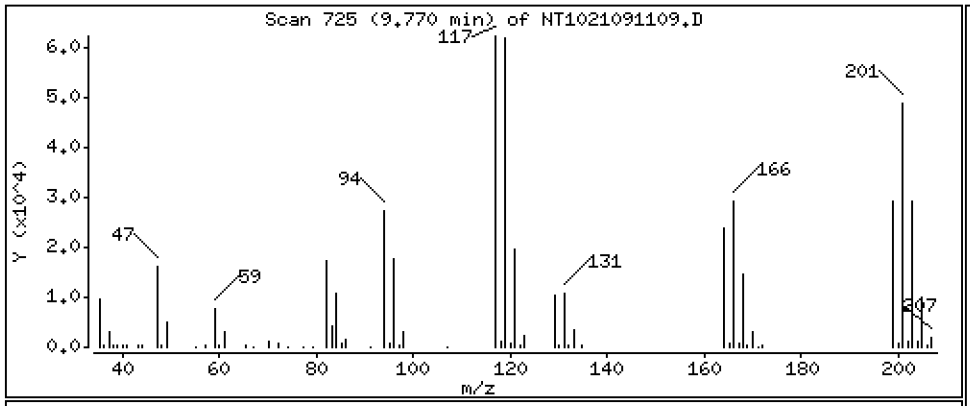
Operator: VTS

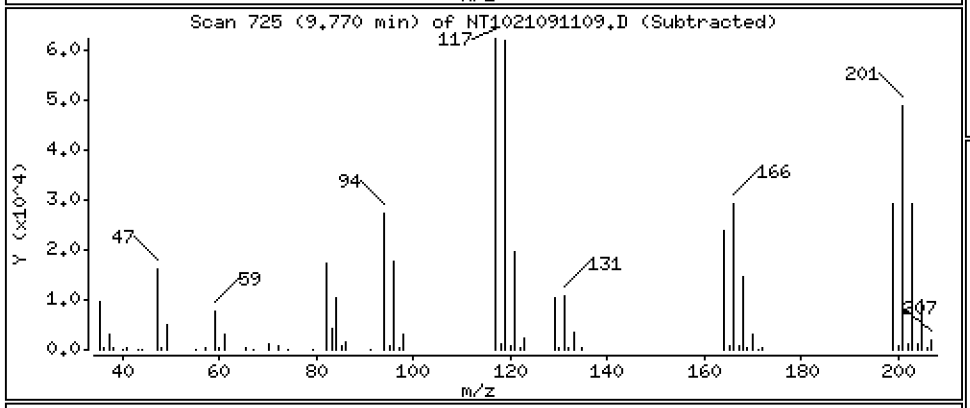
Column phase: ZB-5msi

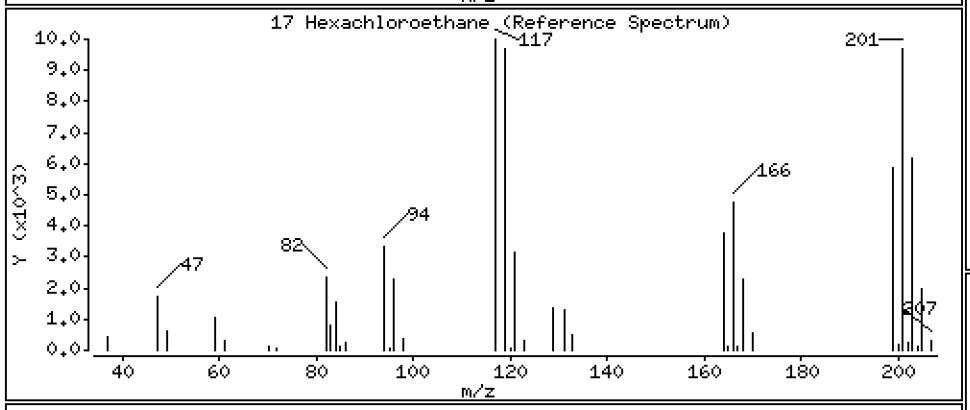
Column diameter: 0.25

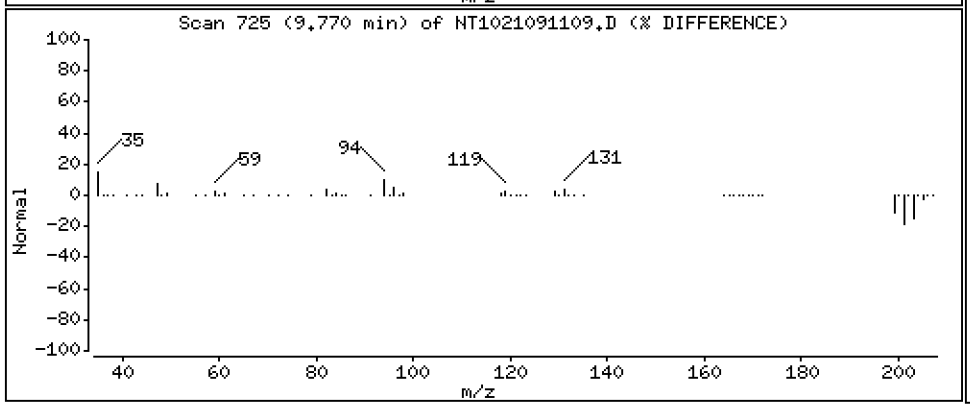
17 Hexachloroethane

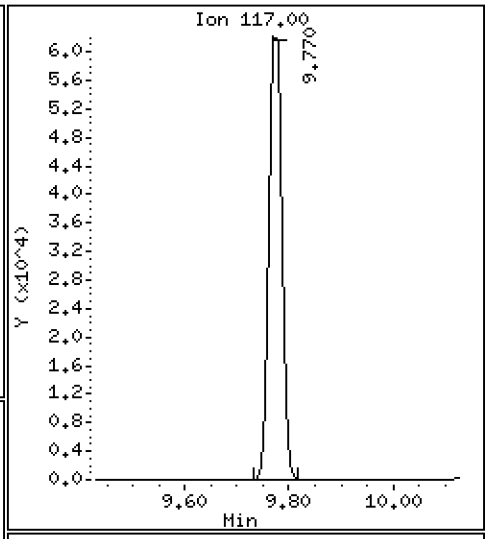
Concentration: 6.137 ug/mL

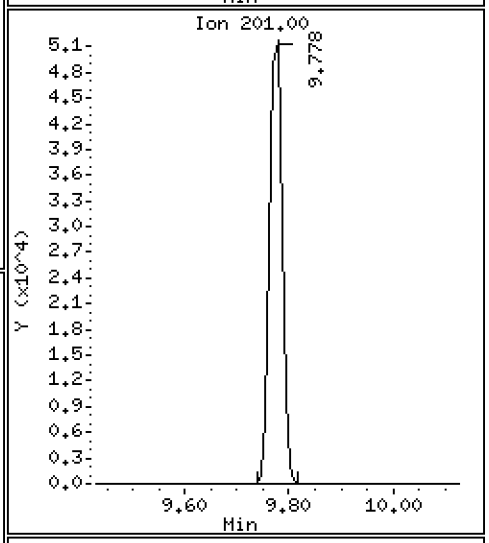


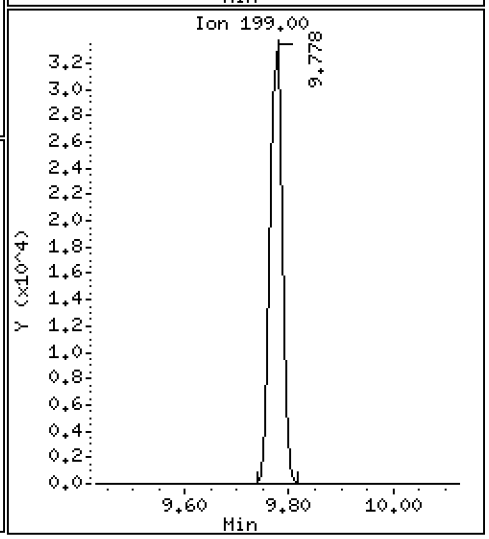












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

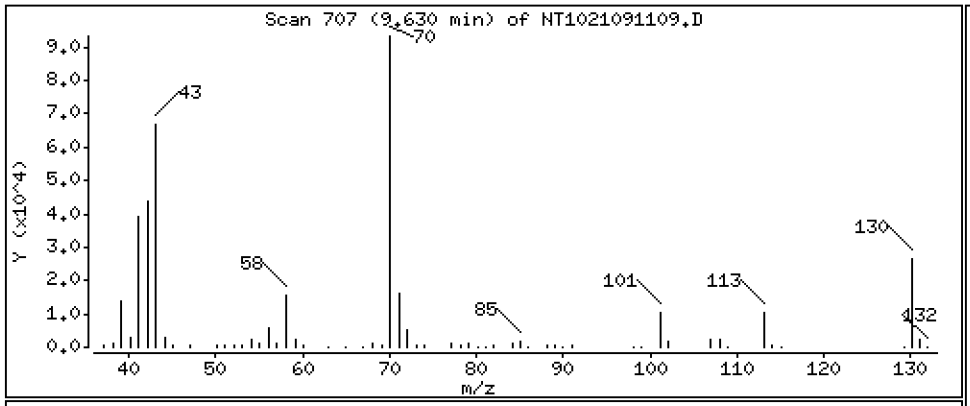
Operator: VTS

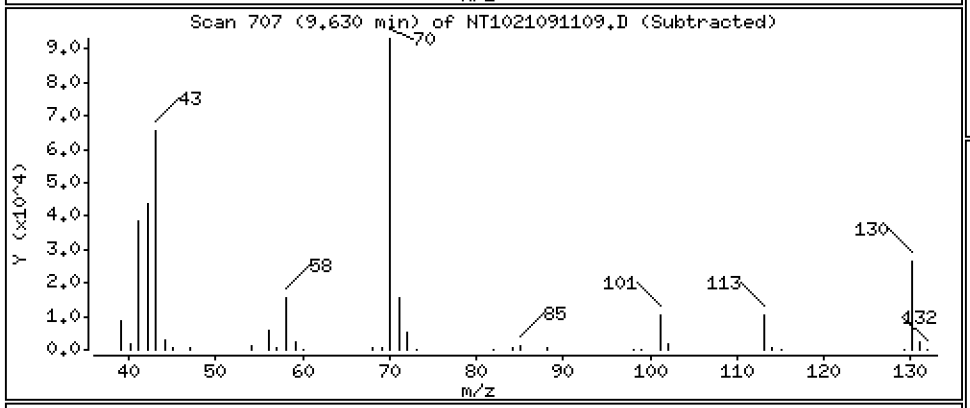
Column phase: ZB-5msi

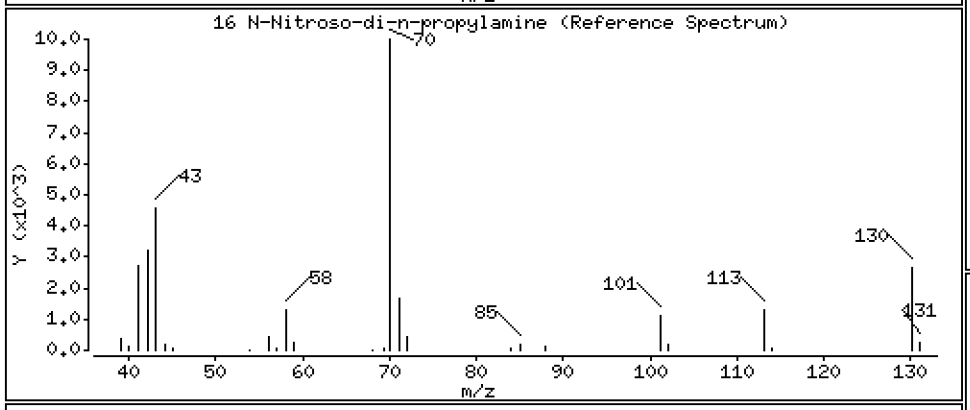
Column diameter: 0.25

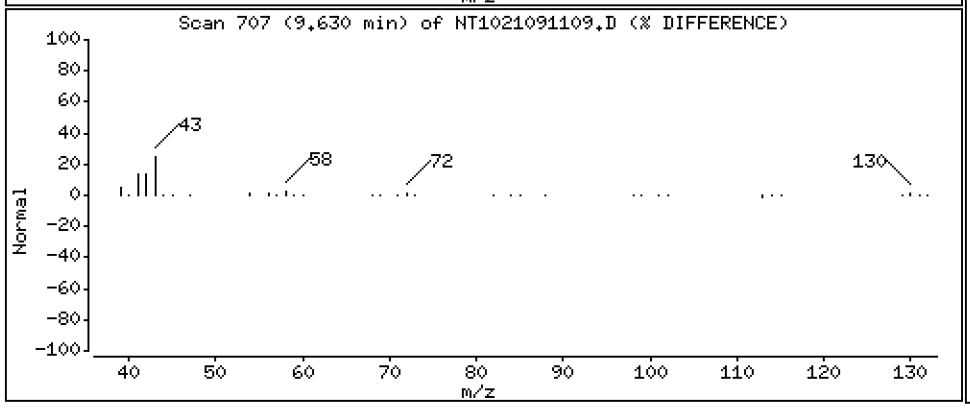
16 N-Nitroso-di-n-propylamine

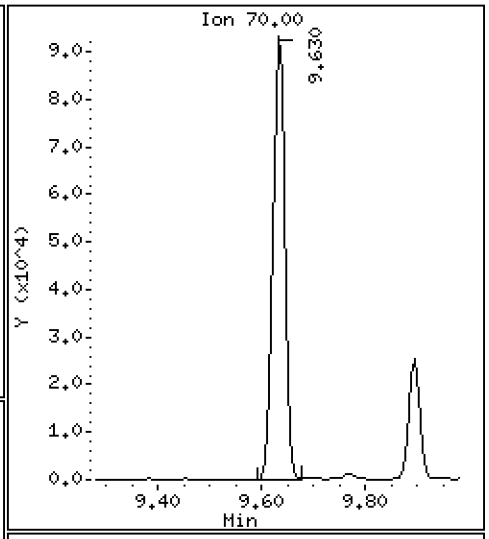
Concentration: 5.357 ug/mL

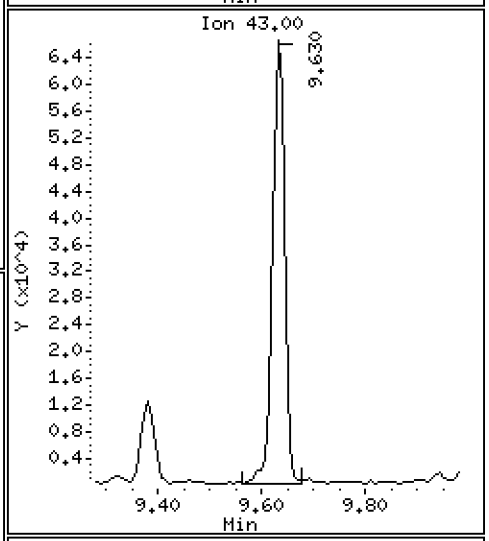


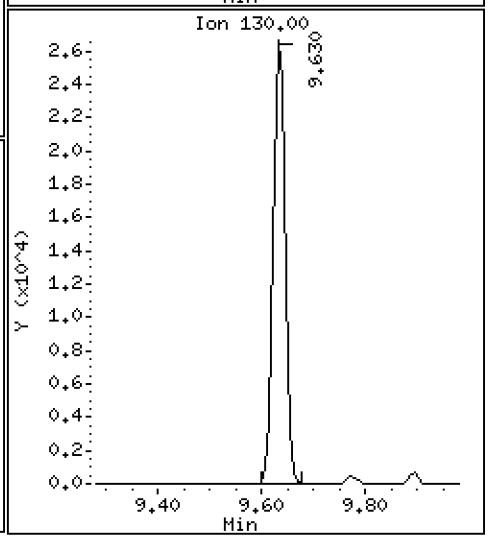












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

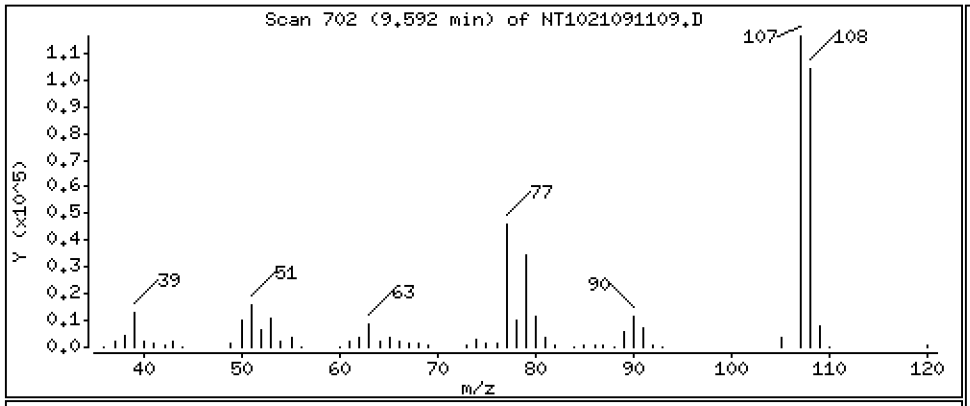
Operator: VTS

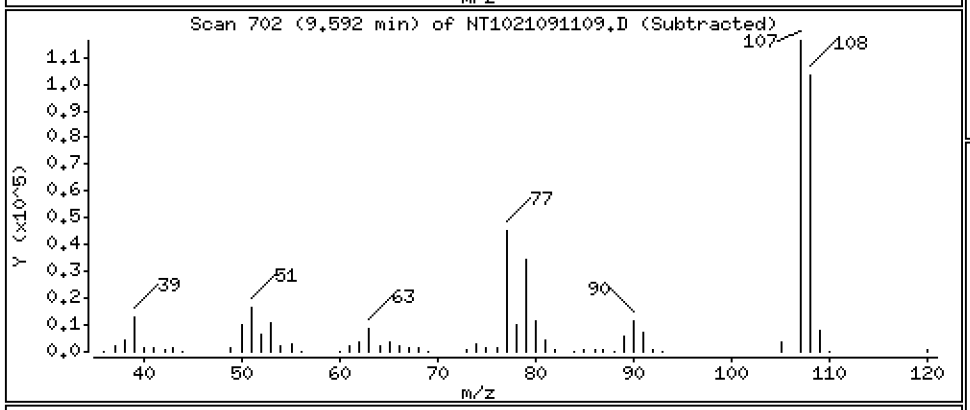
Column phase: ZB-5msi

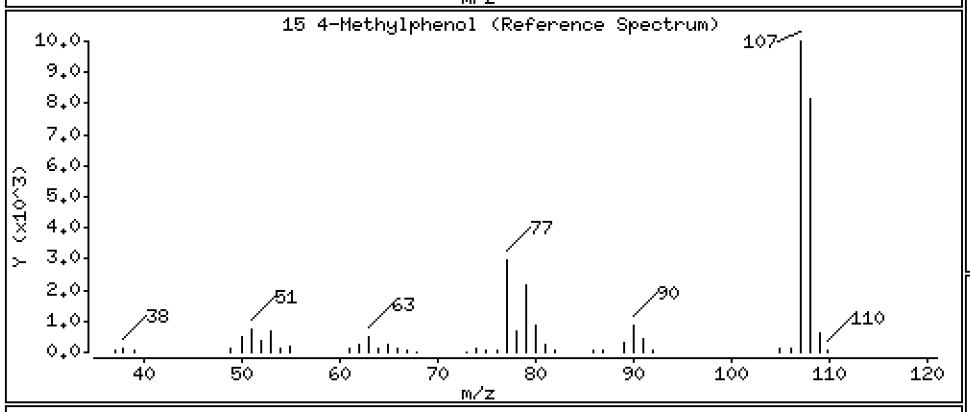
Column diameter: 0.25

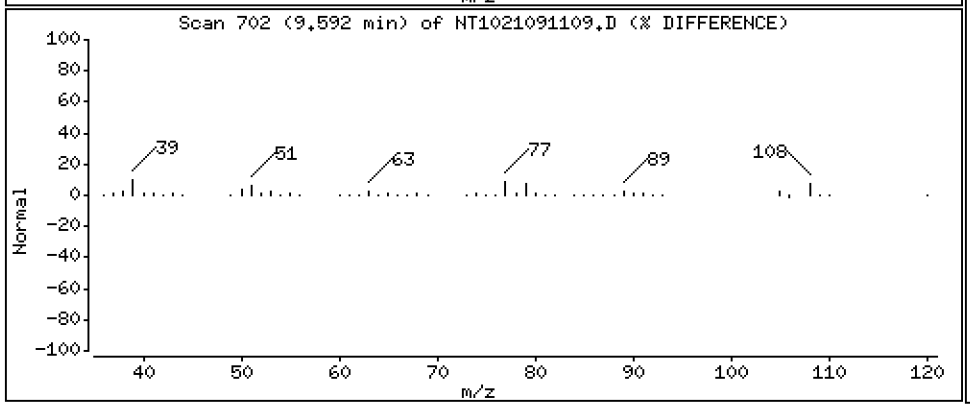
15 4-Methylphenol

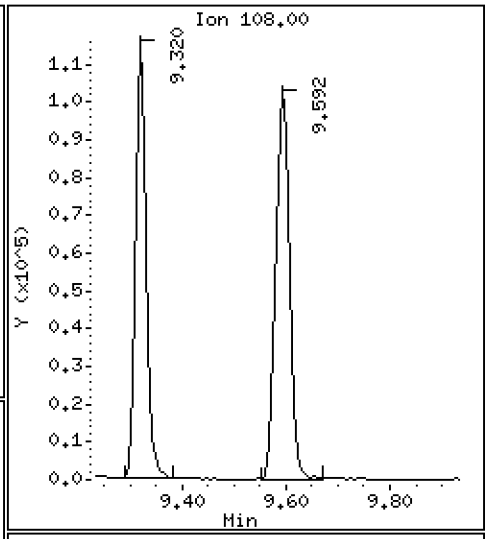
Concentration: 4.730 ug/mL

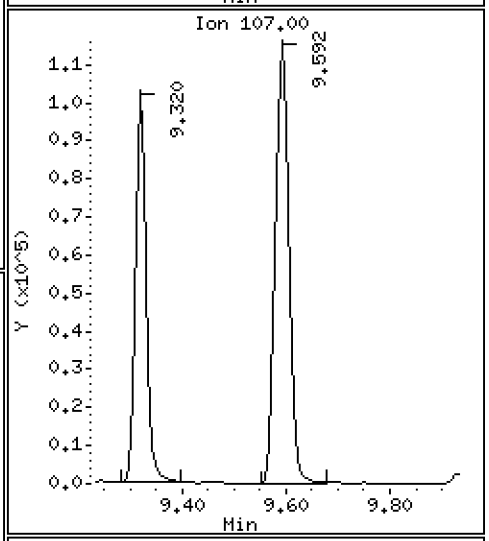


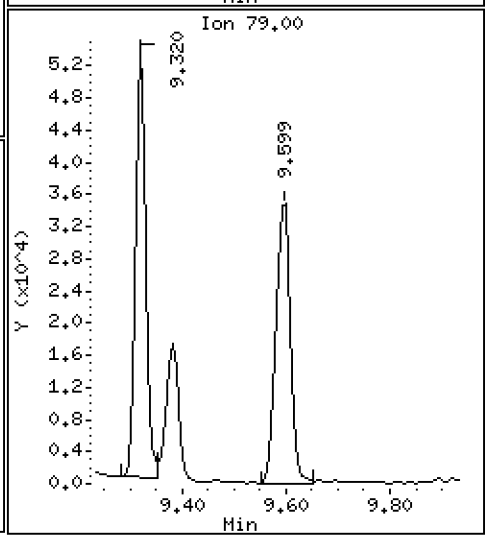












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

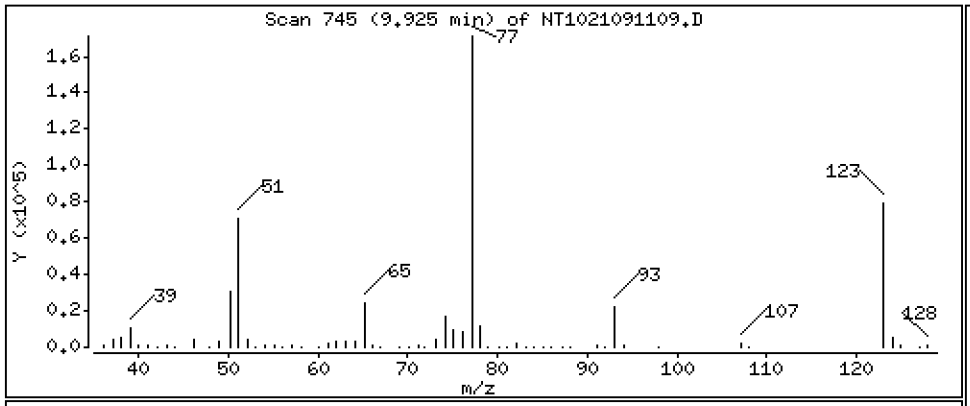
Operator: VTS

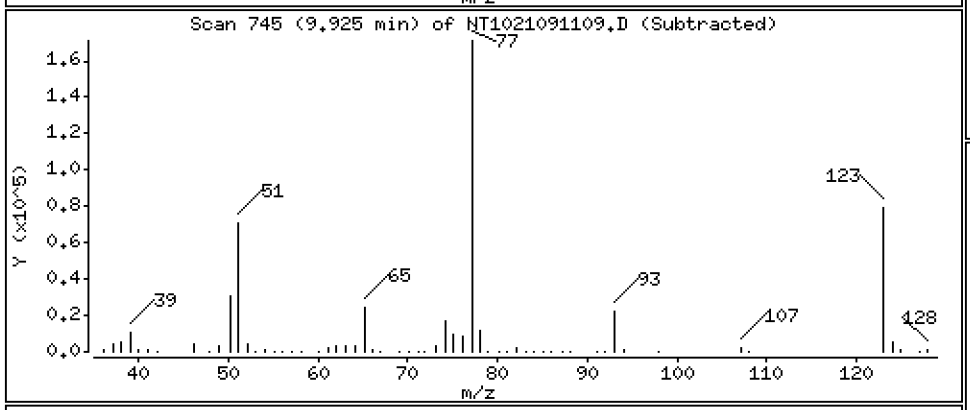
Column phase: ZB-5msi

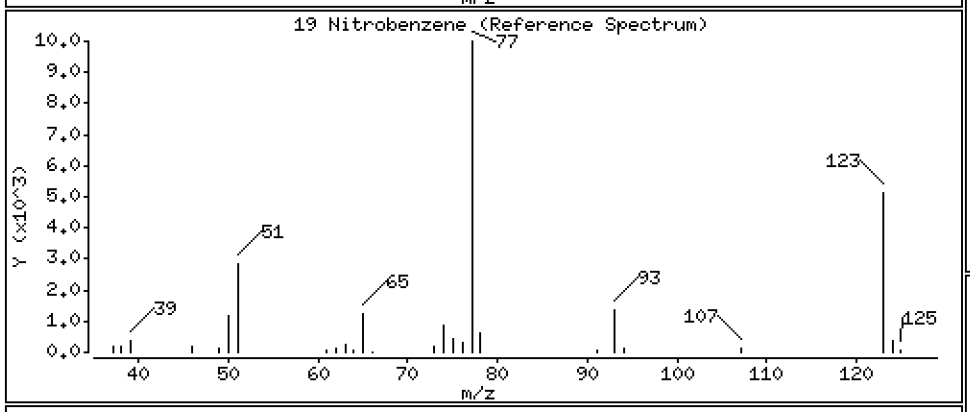
Column diameter: 0.25

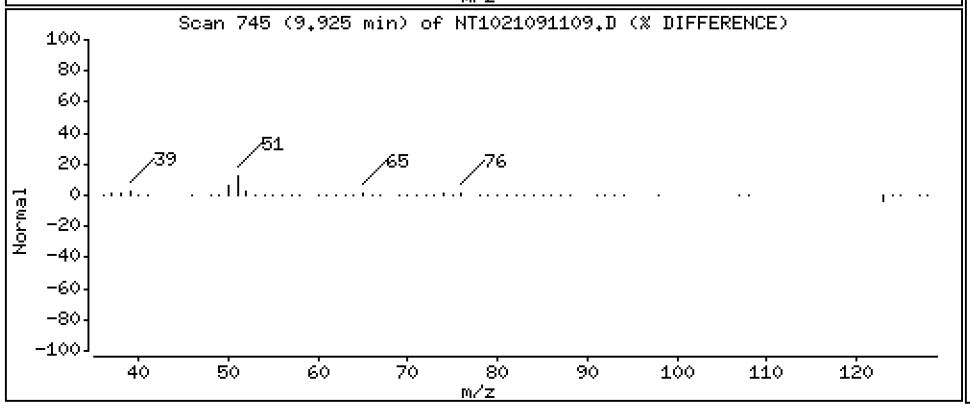
19 Nitrobenzene

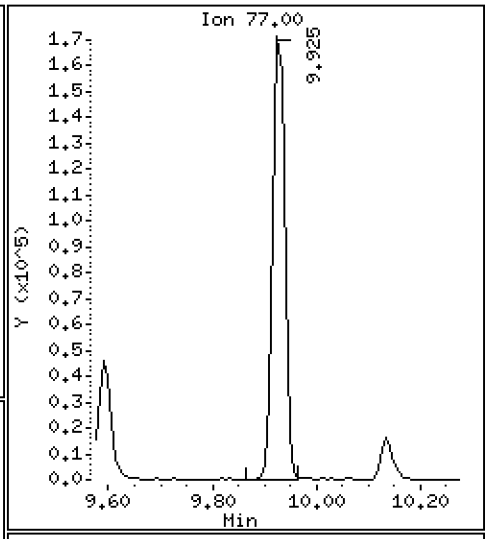
Concentration: 6.249 ug/mL

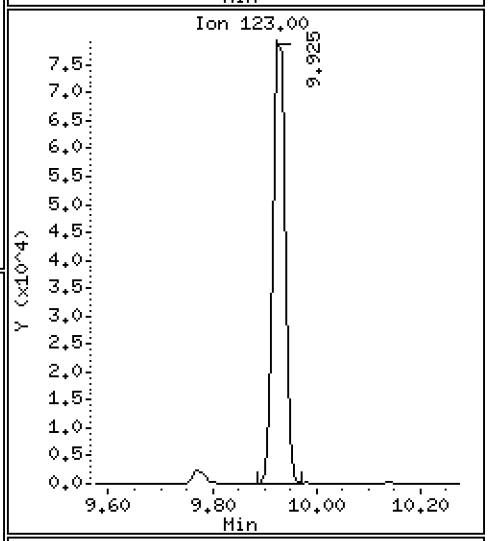


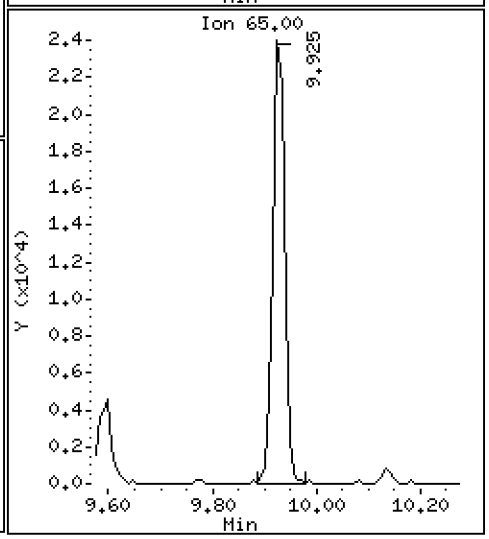












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

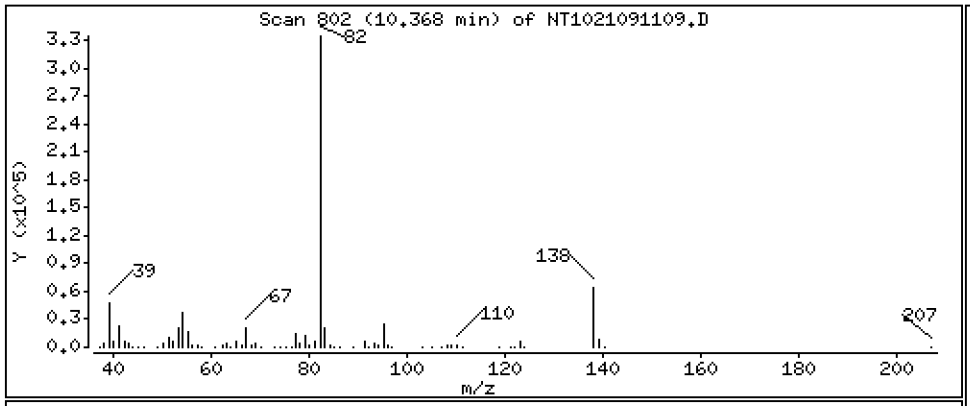
Operator: VTS

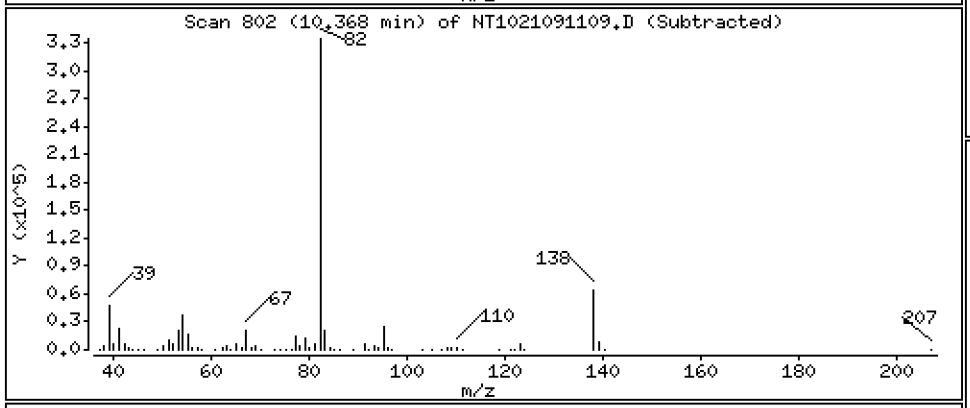
Column phase: ZB-5msi

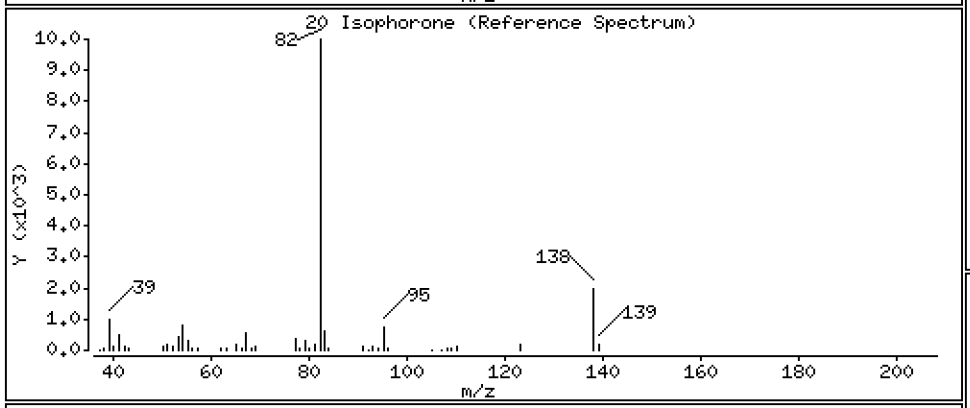
Column diameter: 0.25

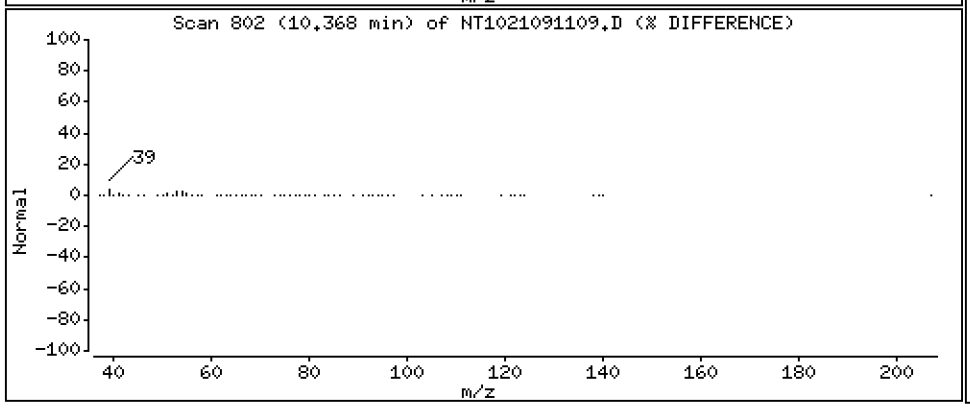
20 Isophorone

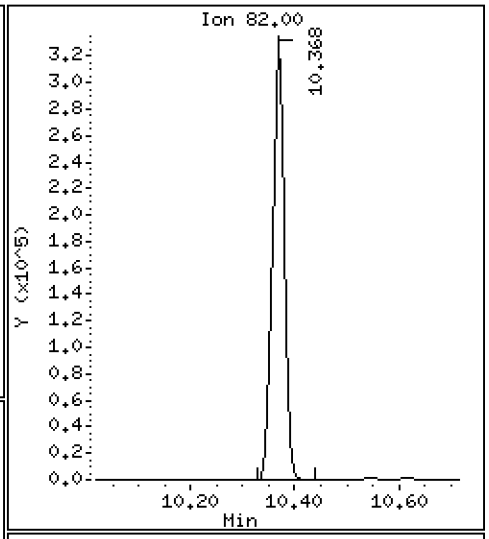
Concentration: 7.810 ug/mL

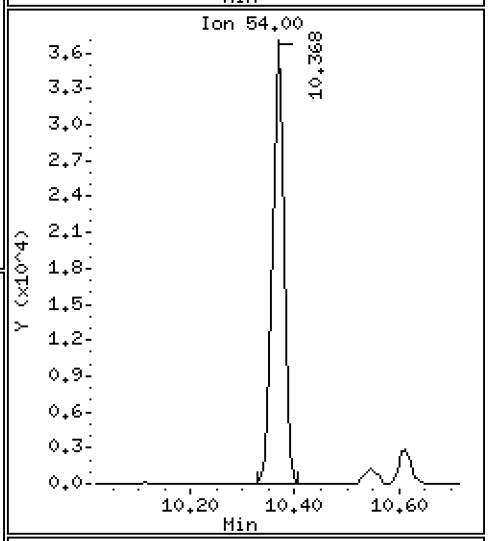


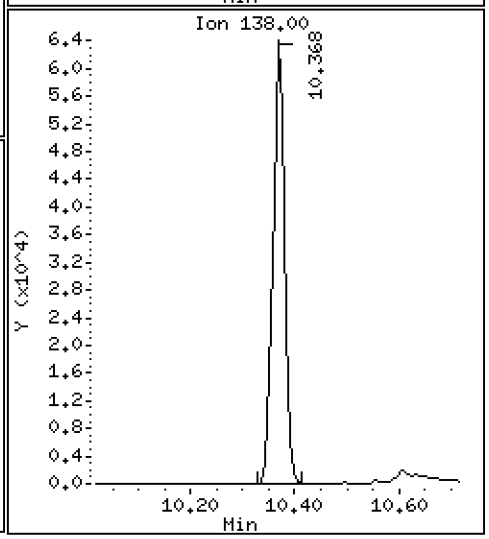












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

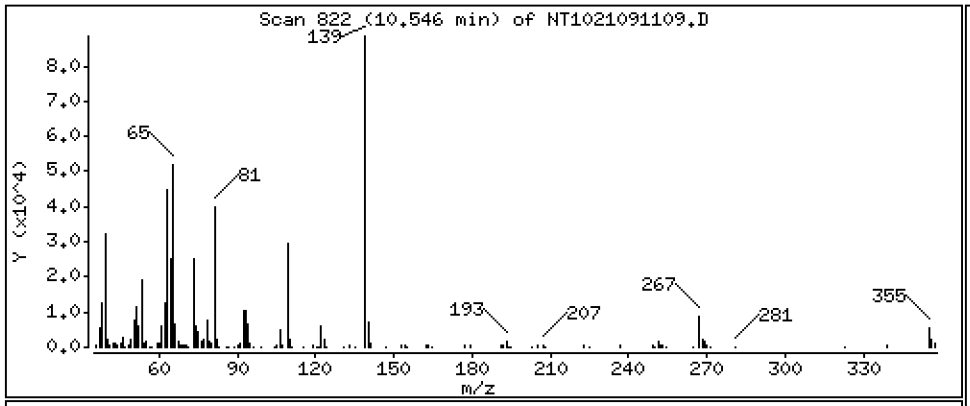
Operator: VTS

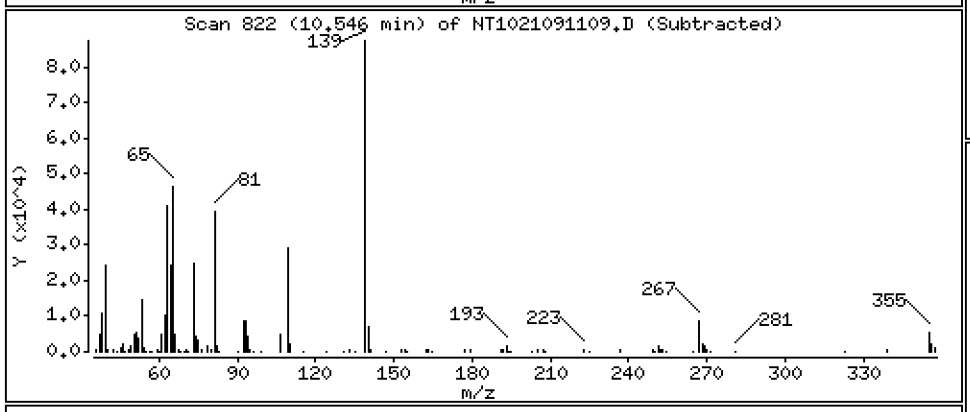
Column phase: ZB-5msi

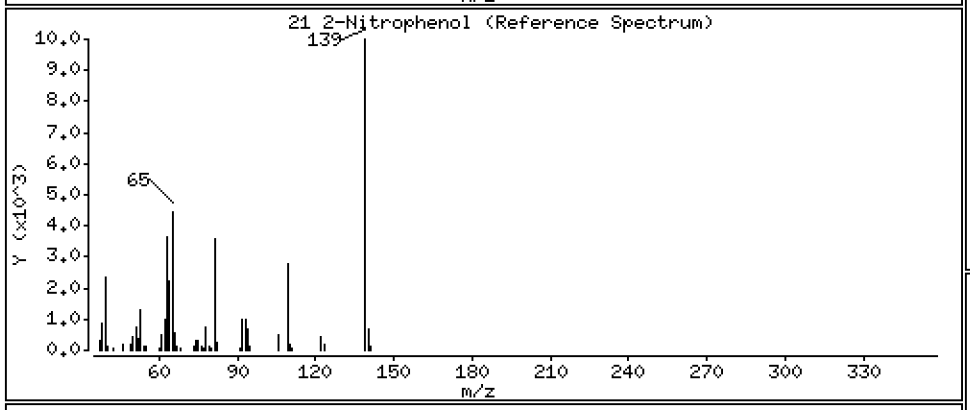
Column diameter: 0.25

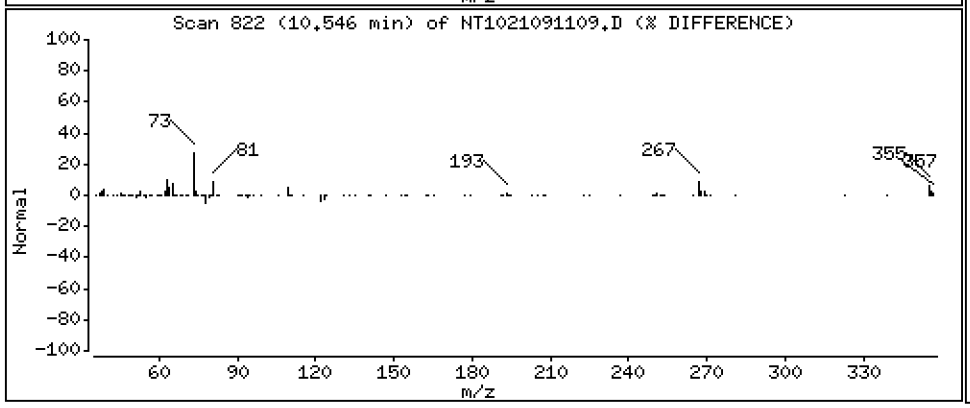
21 2-Nitrophenol

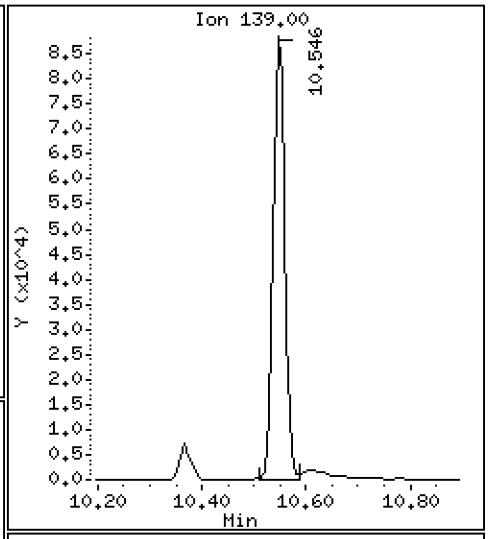
Concentration: 5.675 ug/mL

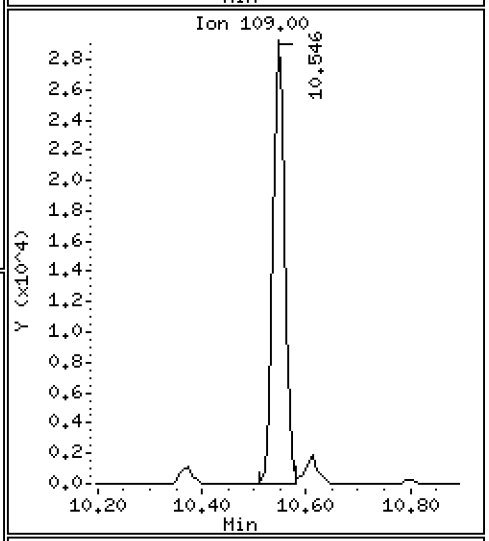


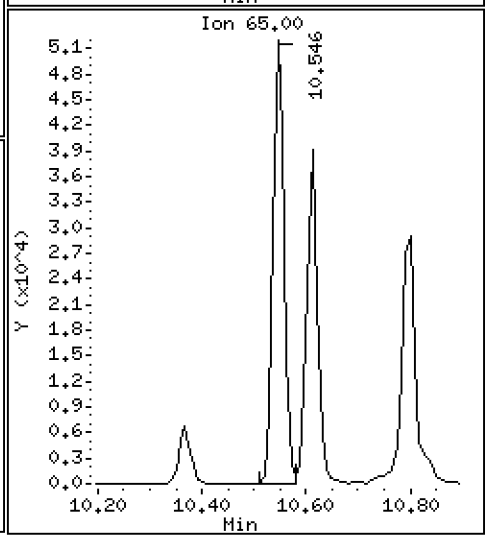












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

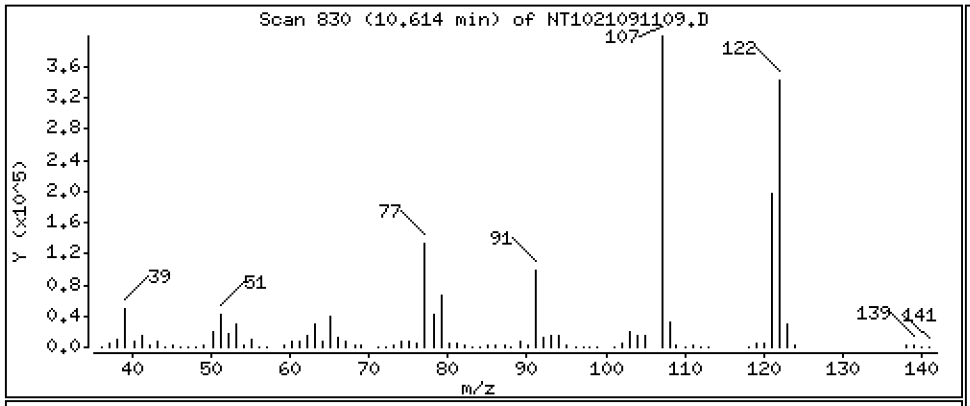
Operator: VTS

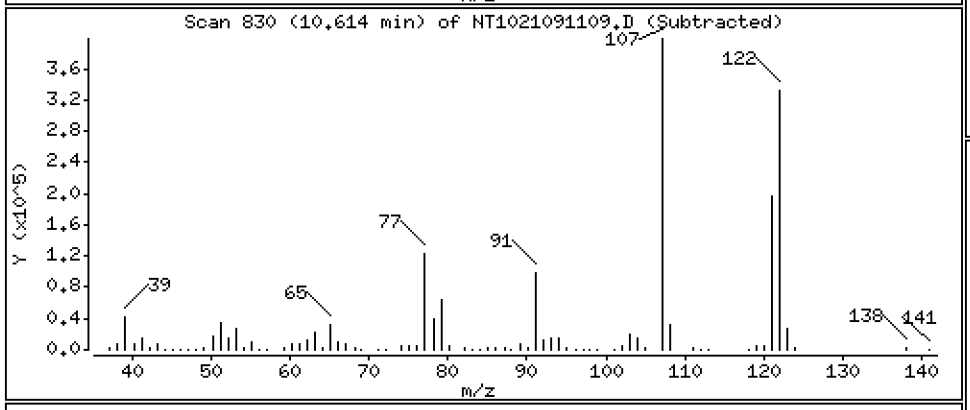
Column phase: ZB-5msi

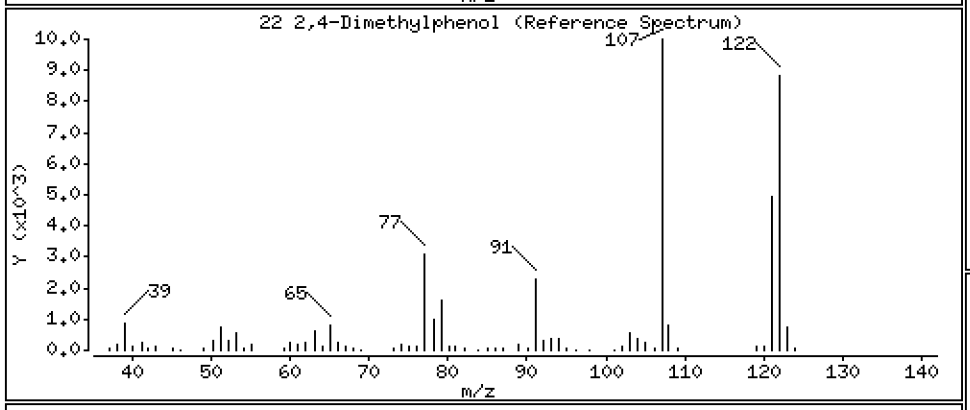
Column diameter: 0.25

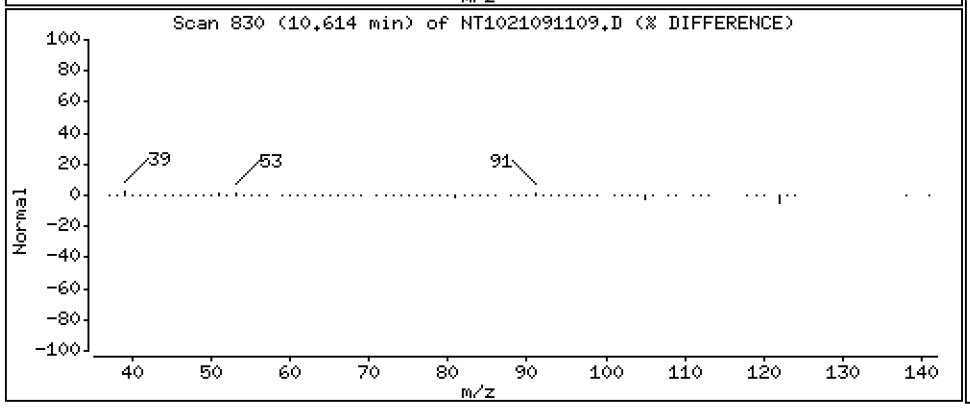
22 2,4-Dimethylphenol

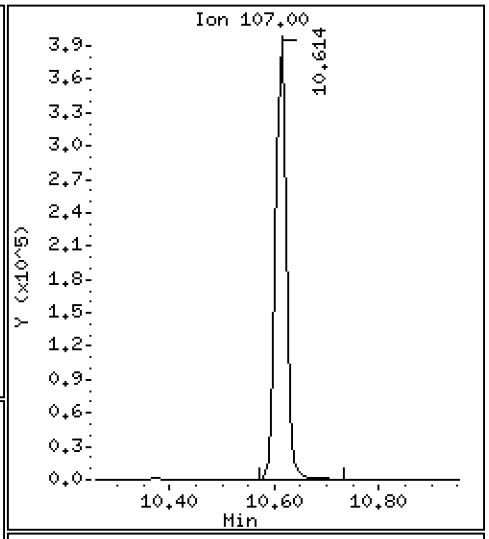
Concentration: 15.65 ug/mL

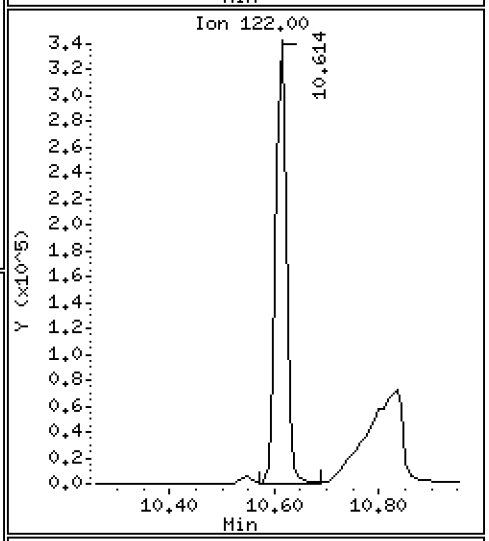


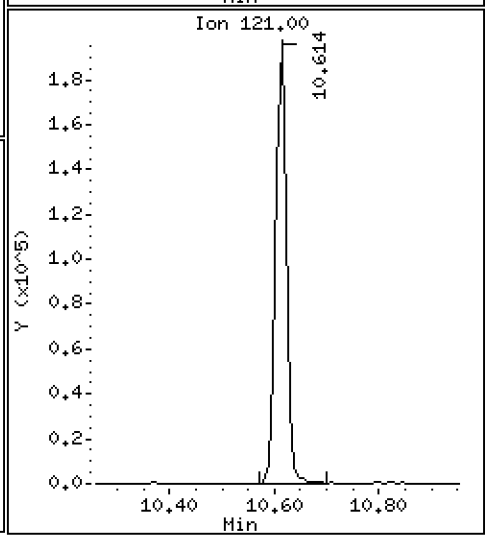












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

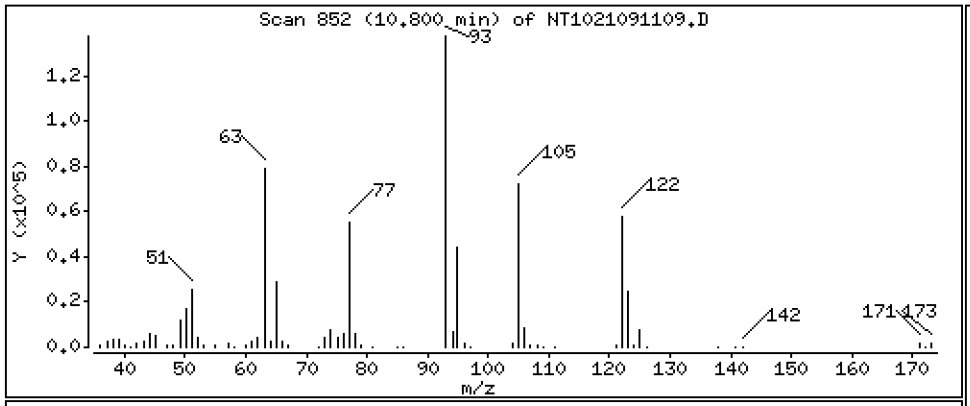
Operator: VTS

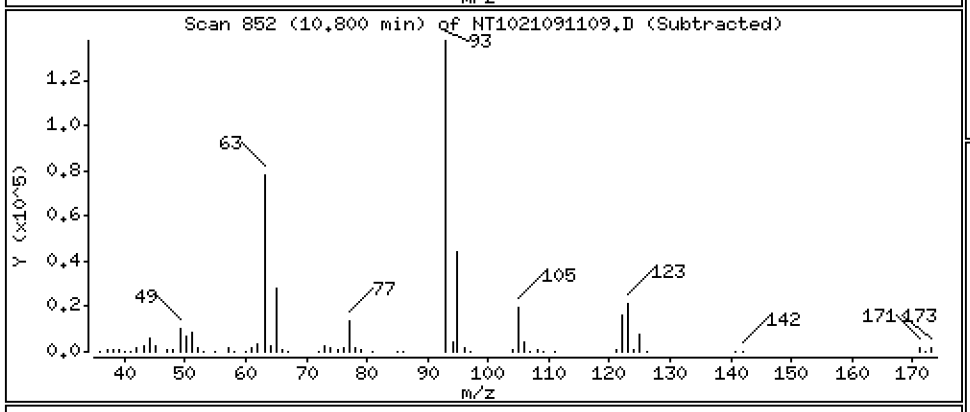
Column phase: ZB-5msi

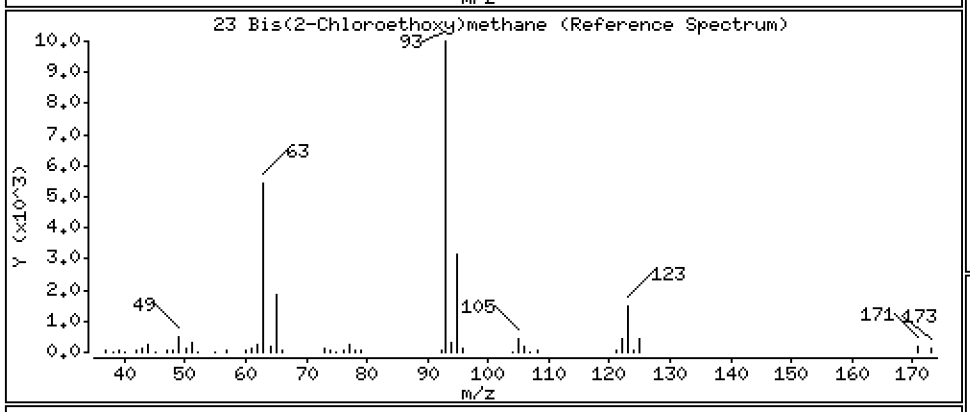
Column diameter: 0.25

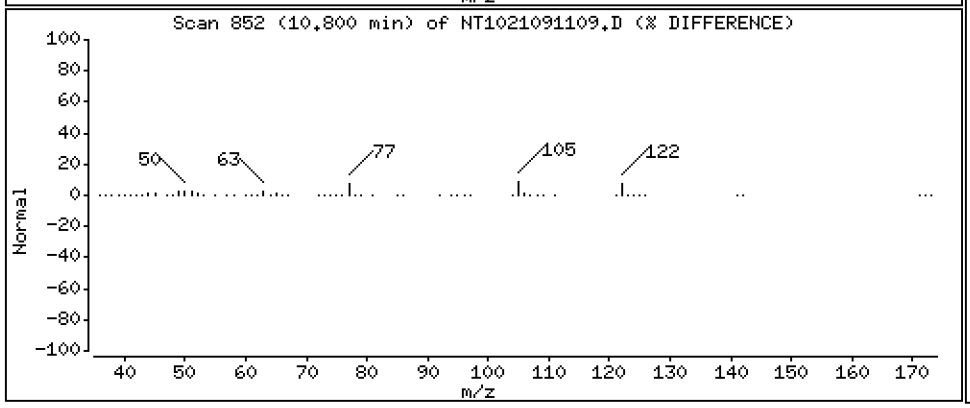
23 Bis(2-Chloroethoxy)methane

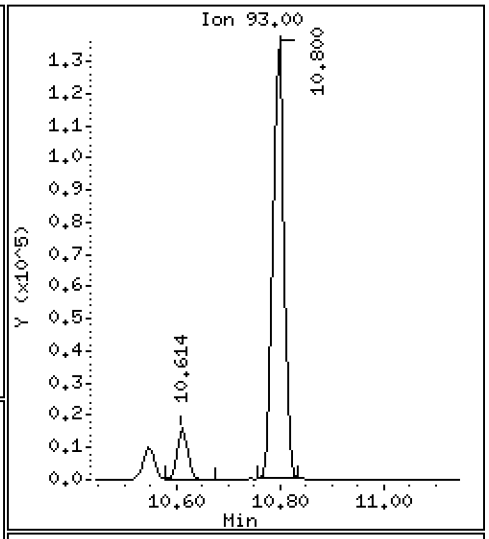
Concentration: 5.215 ug/mL

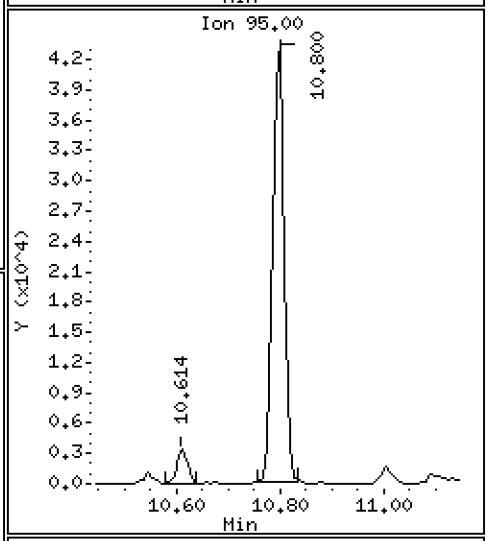


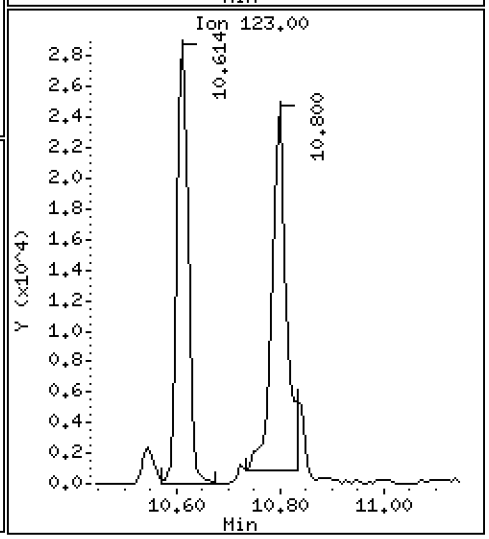












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

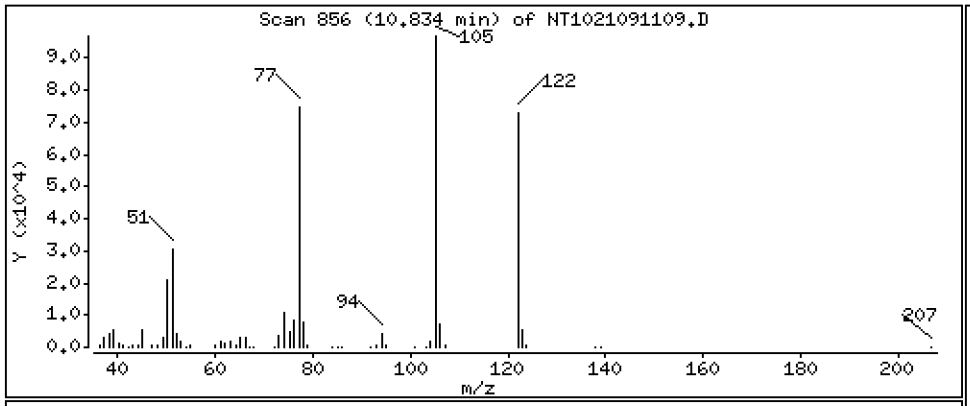
Operator: VTS

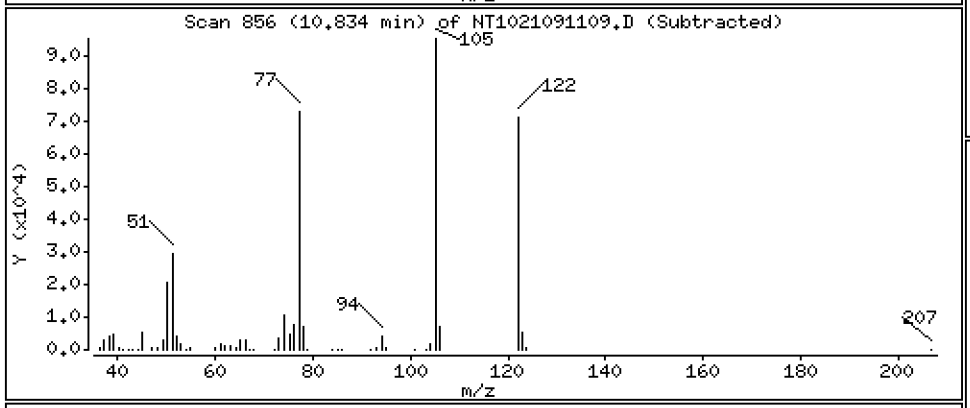
Column phase: ZB-5msi

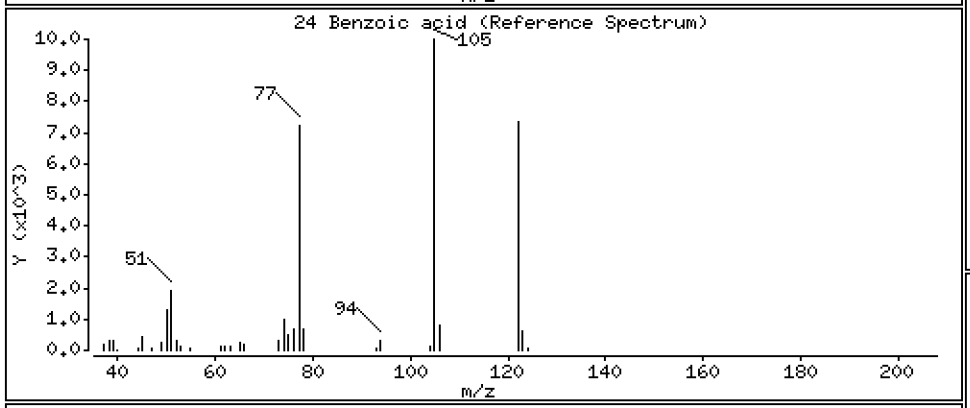
Column diameter: 0.25

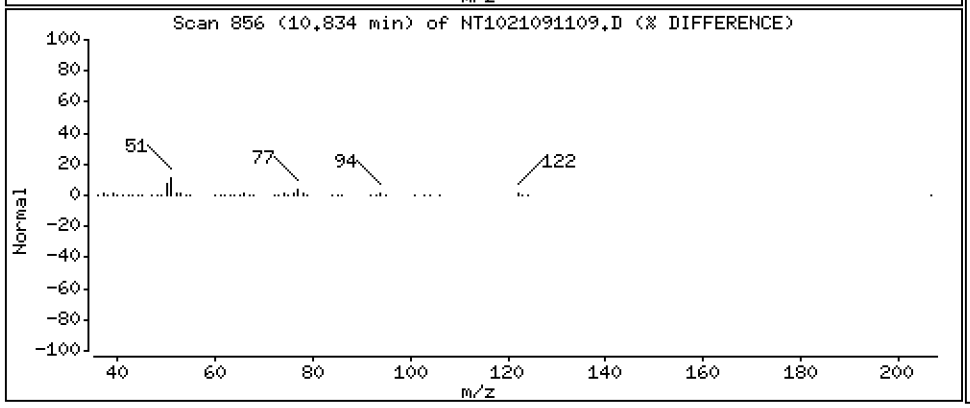
24 Benzoic acid

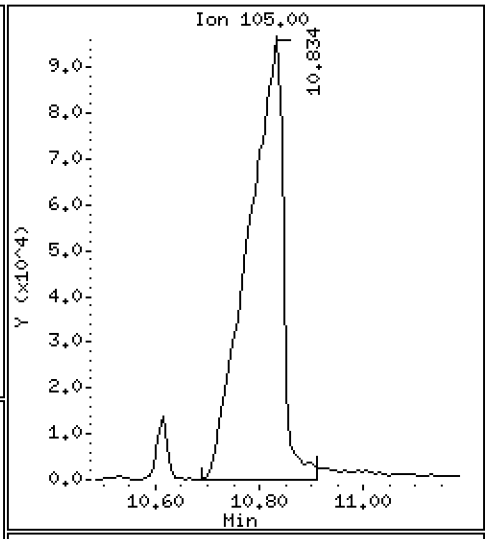
Concentration: 23.41 ug/mL

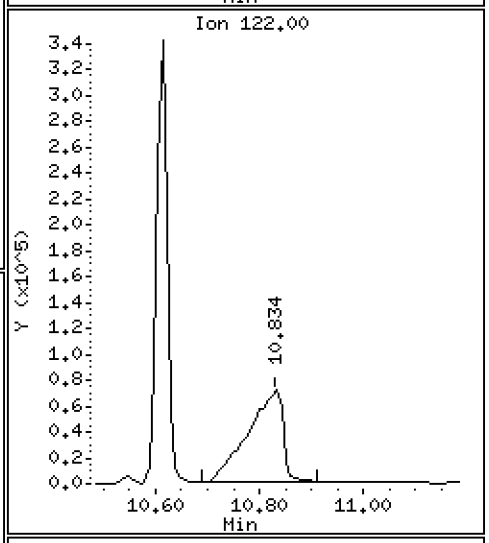


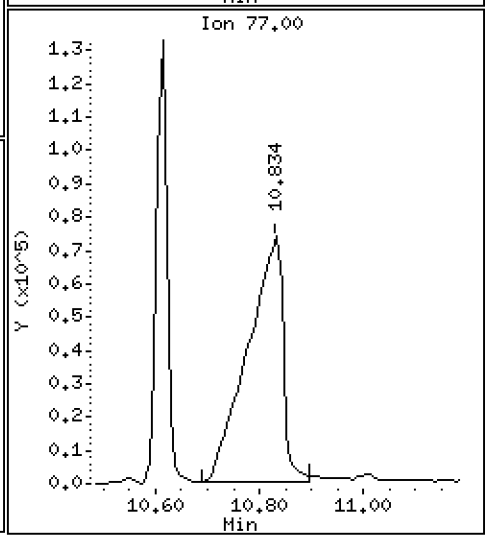












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

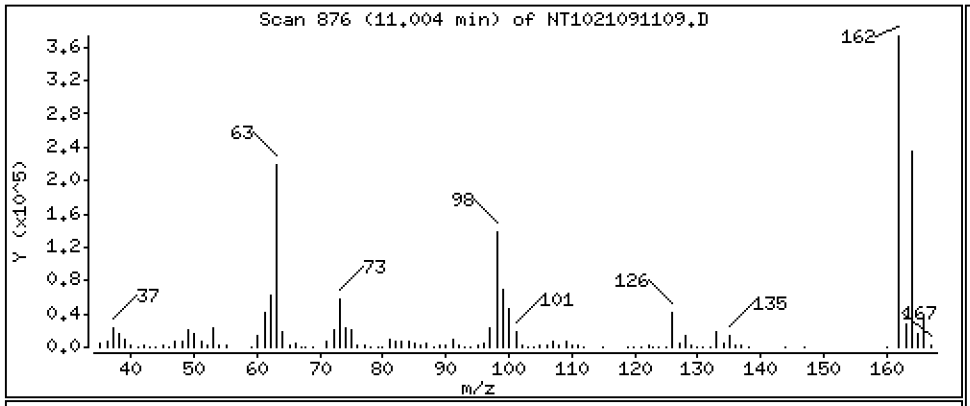
Operator: VTS

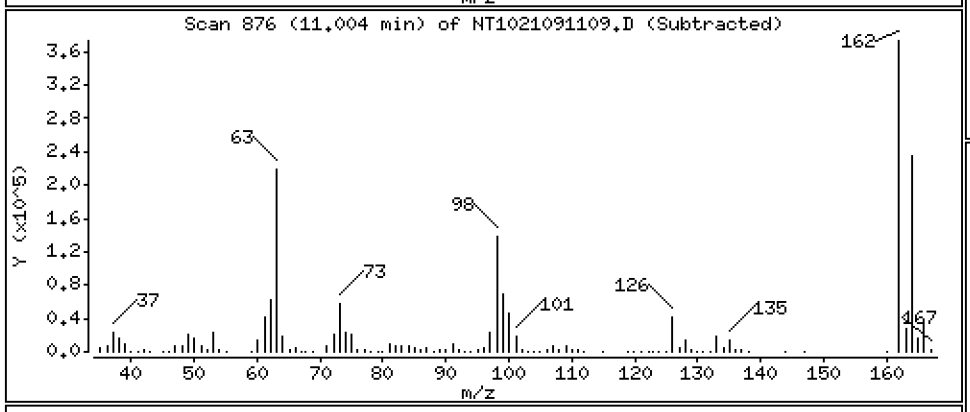
Column phase: ZB-5msi

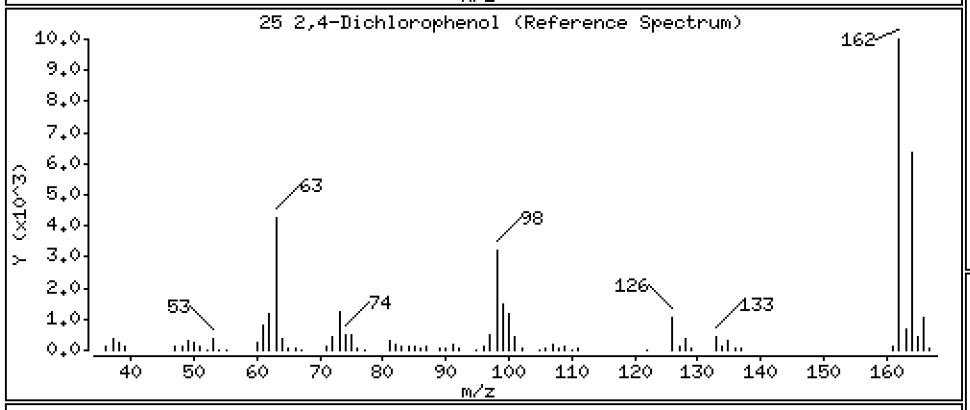
Column diameter: 0.25

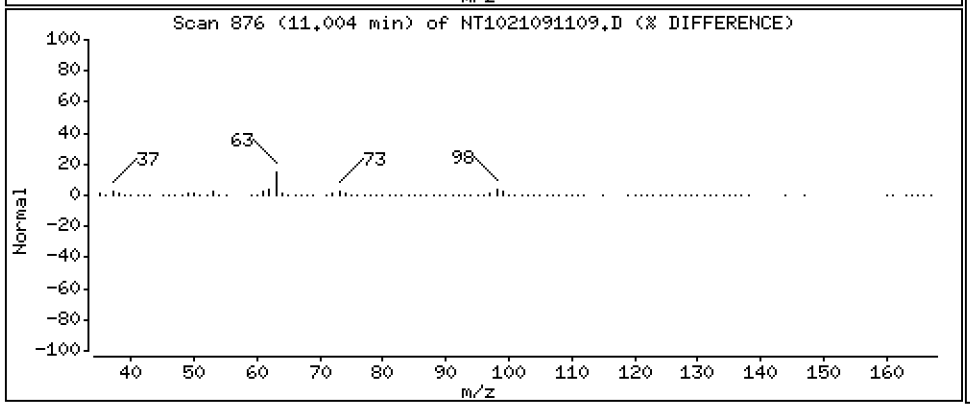
25 2,4-Dichlorophenol

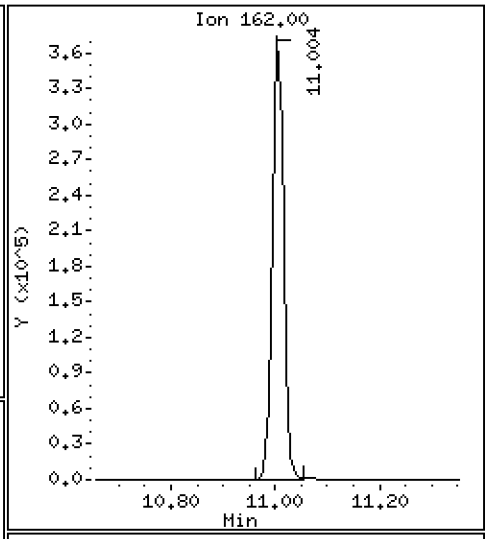
Concentration: 14.57 ug/mL

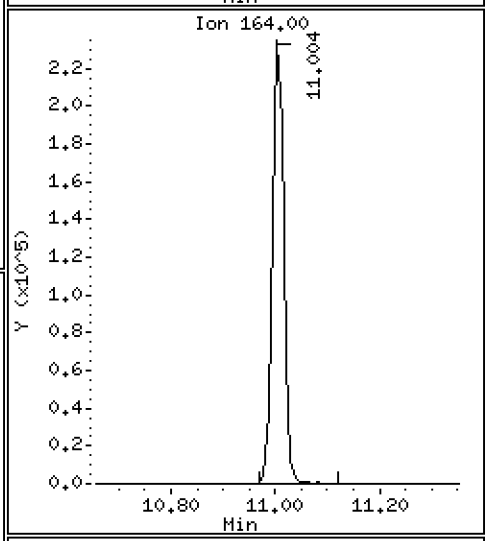


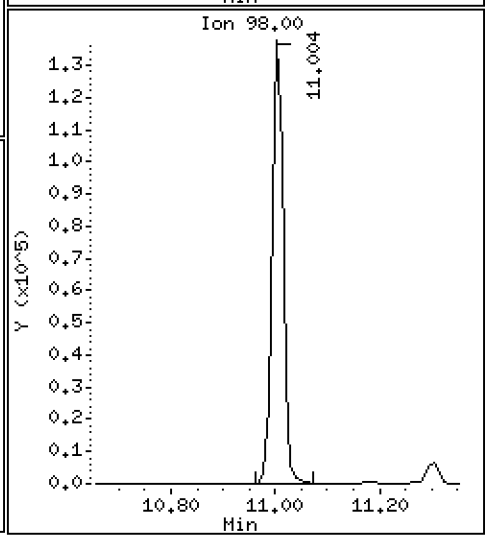












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

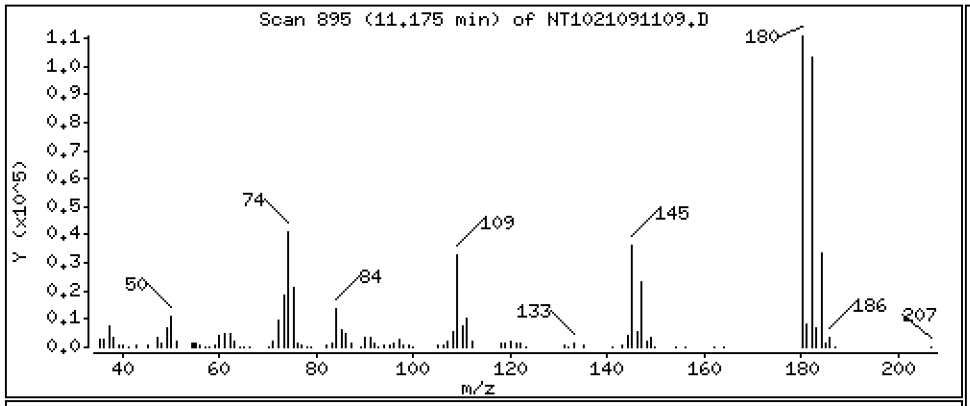
Operator: VTS

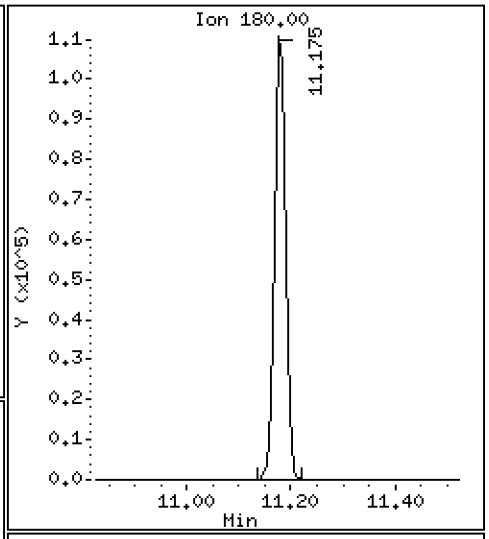
Column phase: ZB-5msi

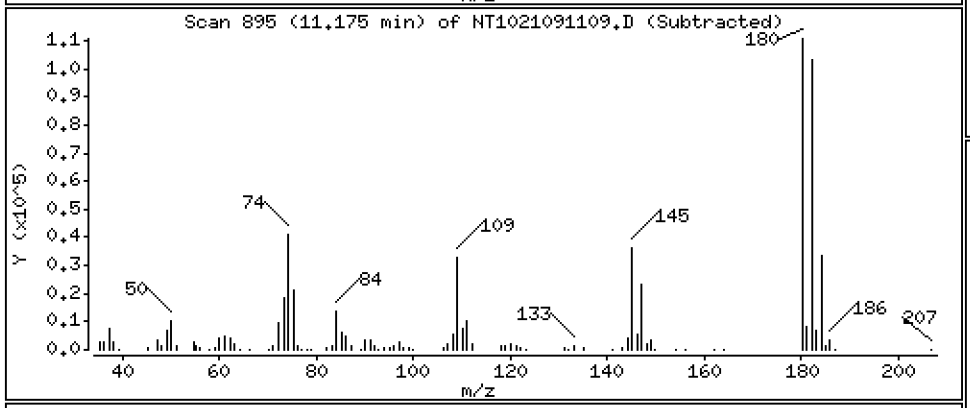
Column diameter: 0.25

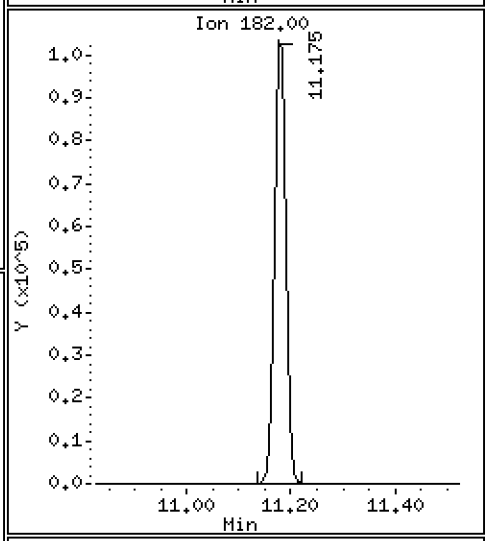
26 1,2,4-Trichlorobenzene

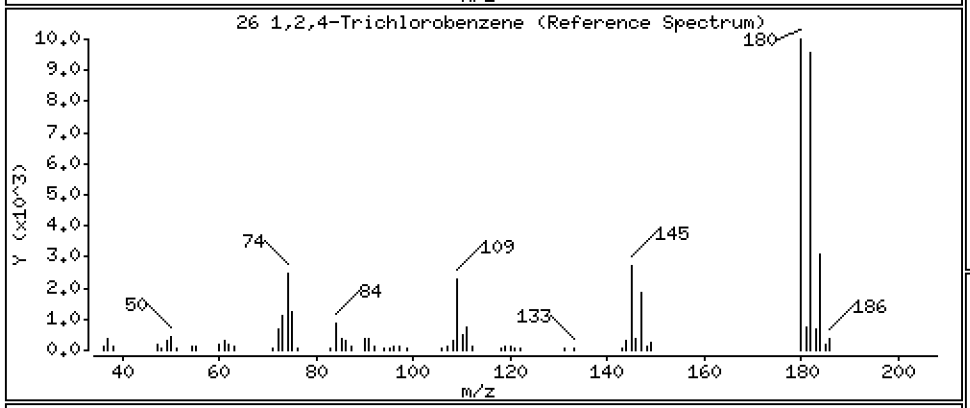
Concentration: 4.673 ug/mL

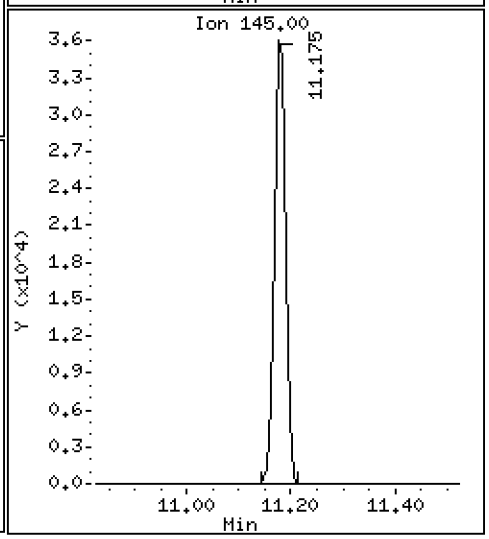


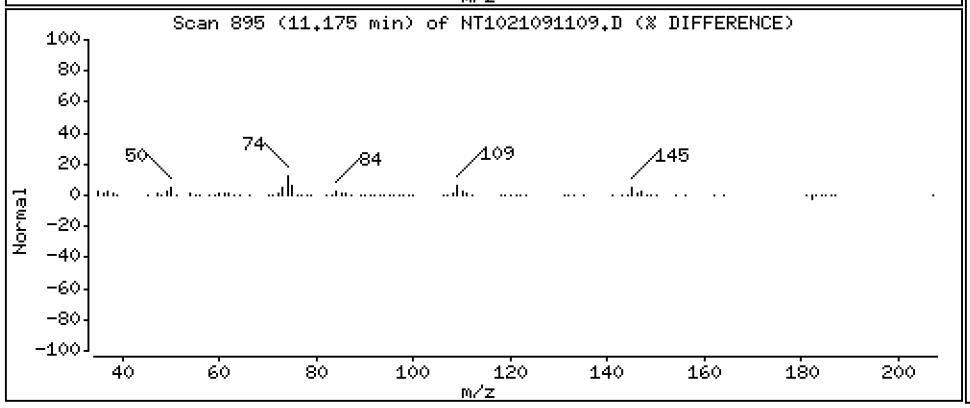












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

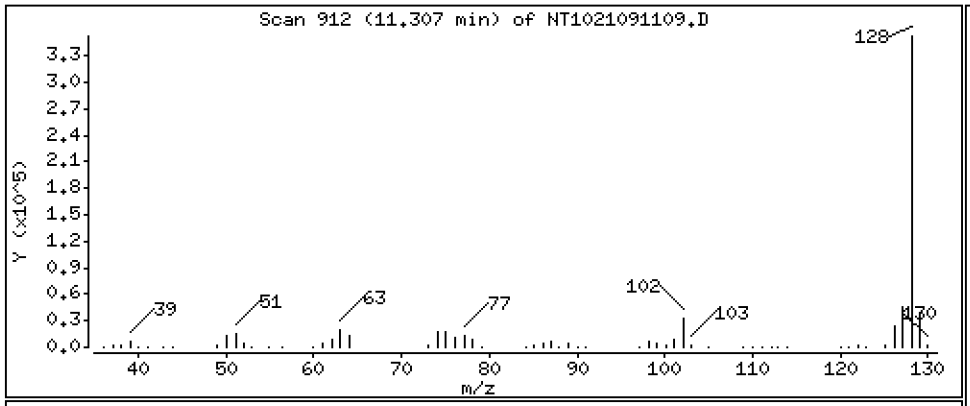
Operator: VTS

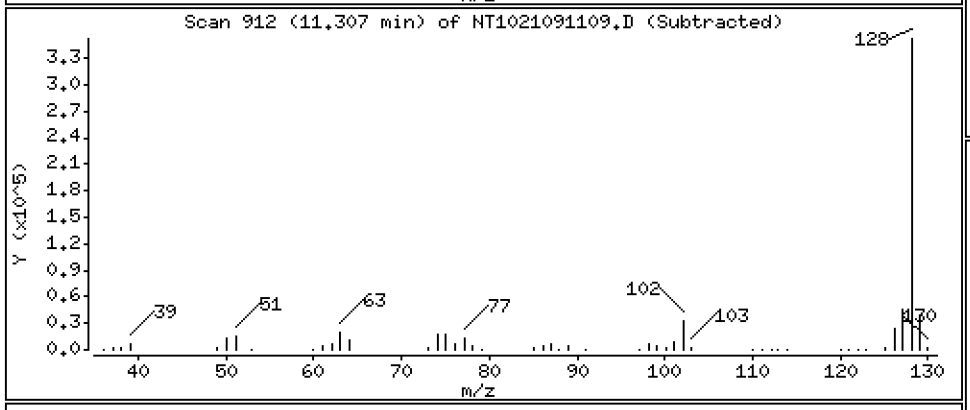
Column phase: ZB-5msi

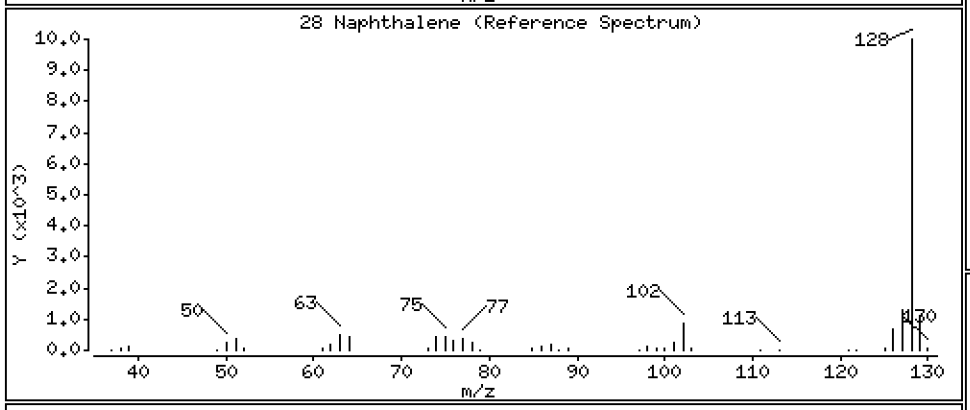
Column diameter: 0.25

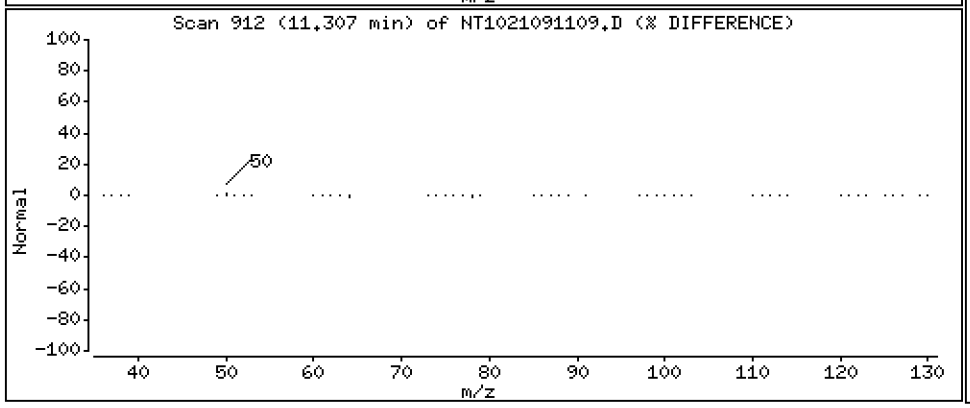
28 Naphthalene

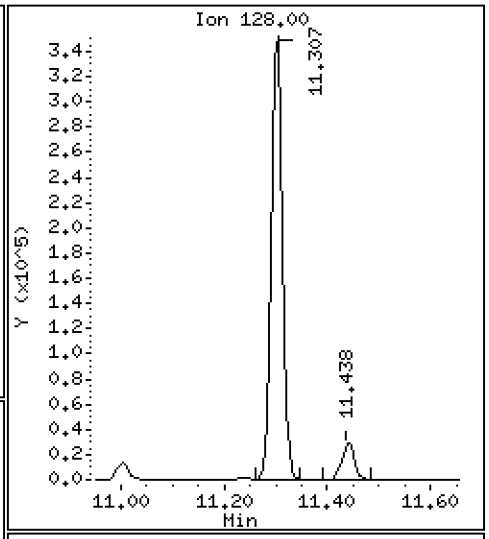
Concentration: 4.970 ug/mL

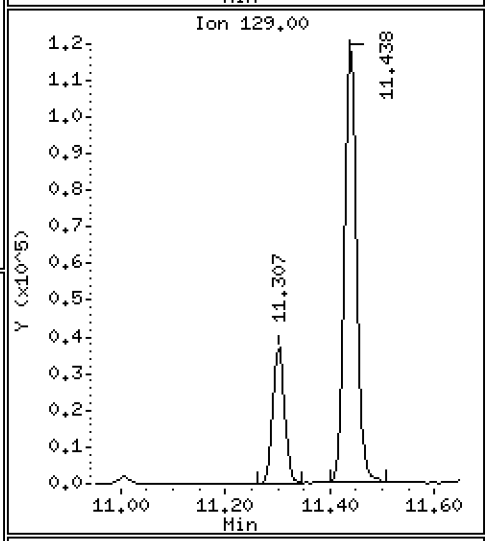


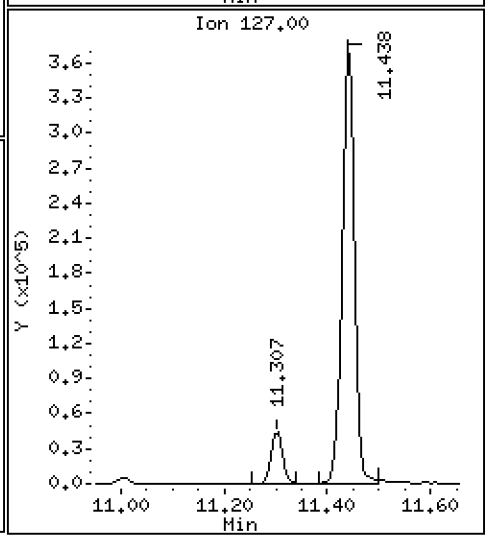












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

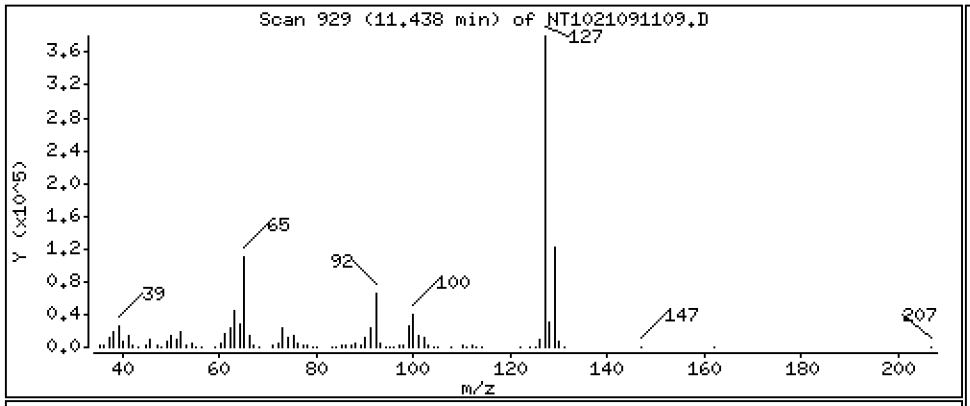
Operator: VTS

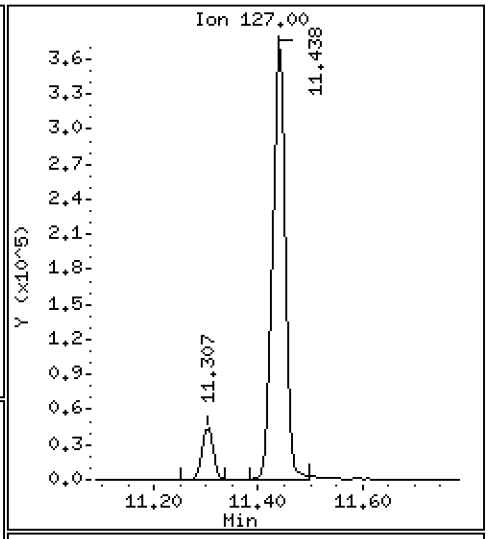
Column phase: ZB-5msi

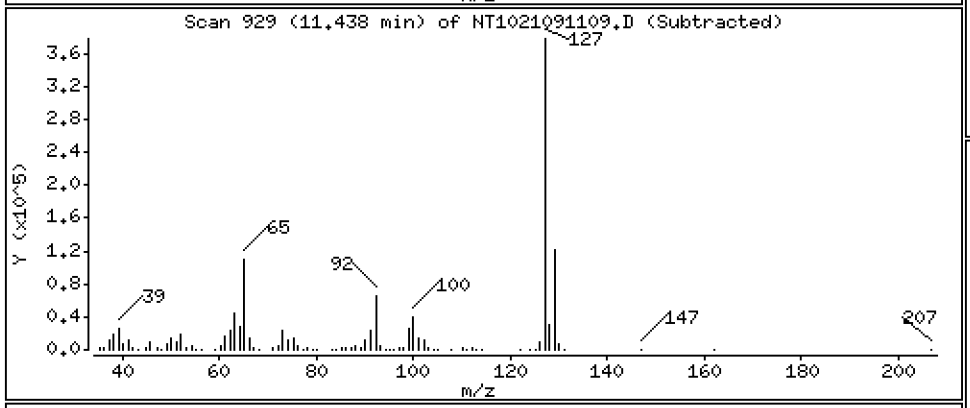
Column diameter: 0.25

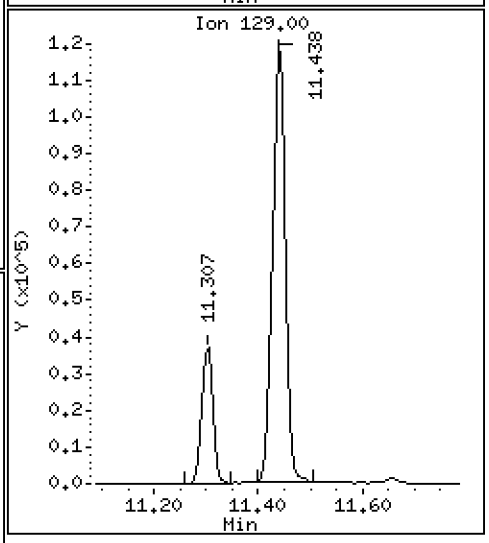
29 4-Chloroaniline

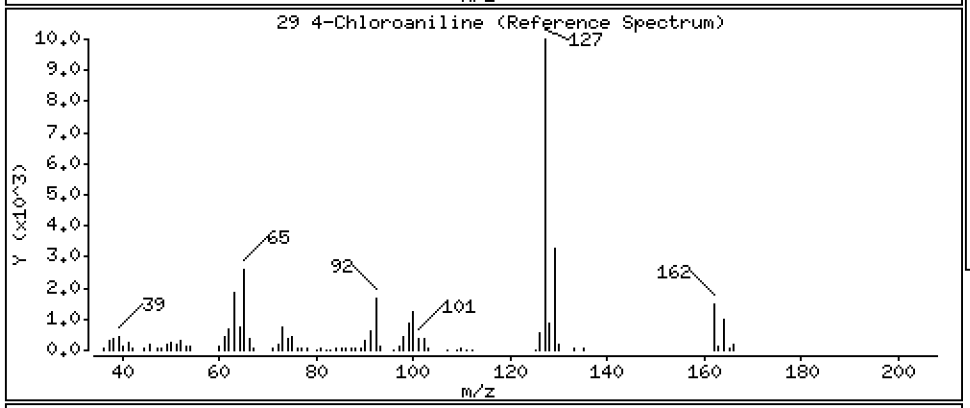
Concentration: 11.87 ug/mL

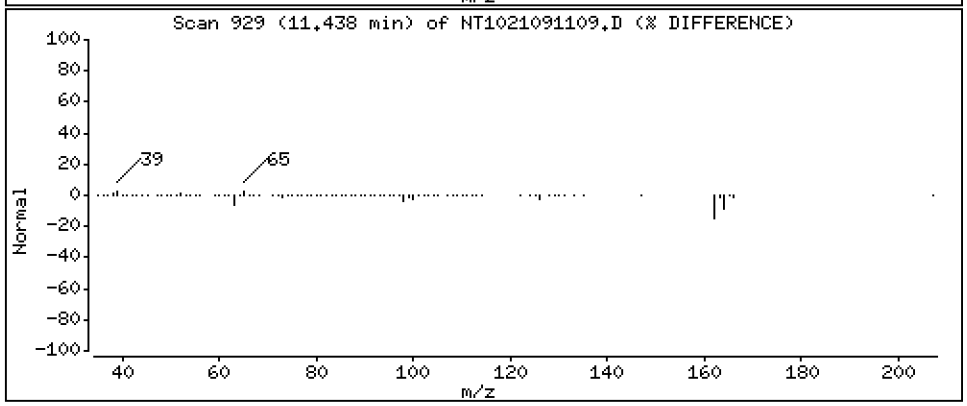












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

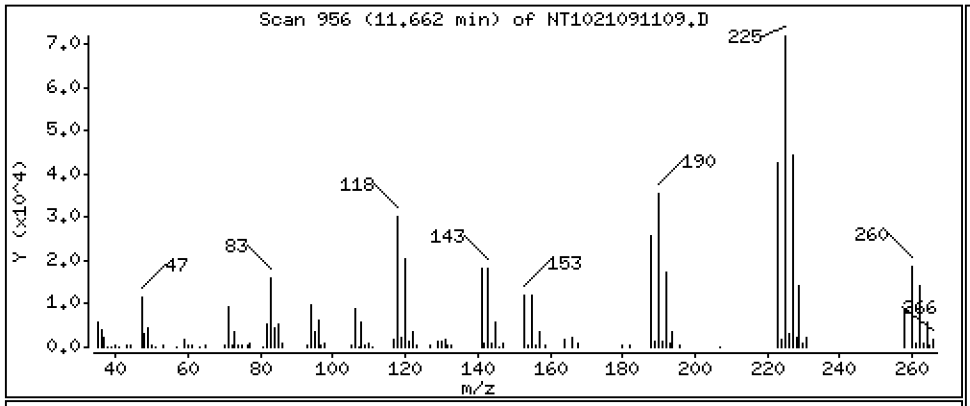
Operator: VTS

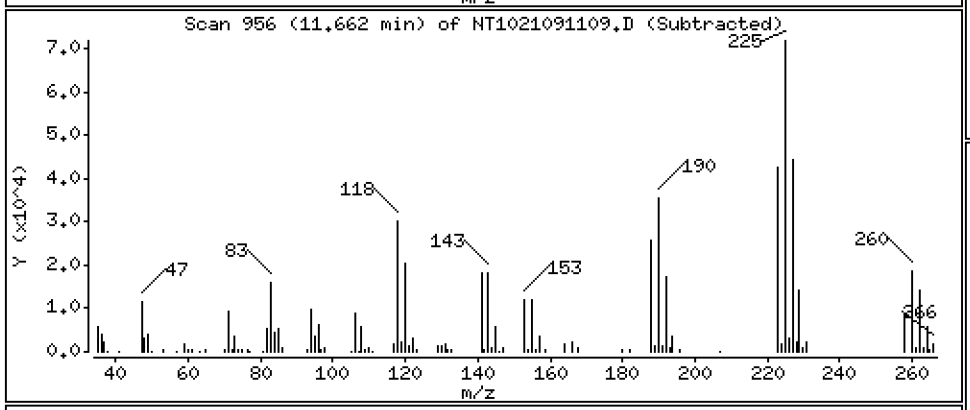
Column phase: ZB-5msi

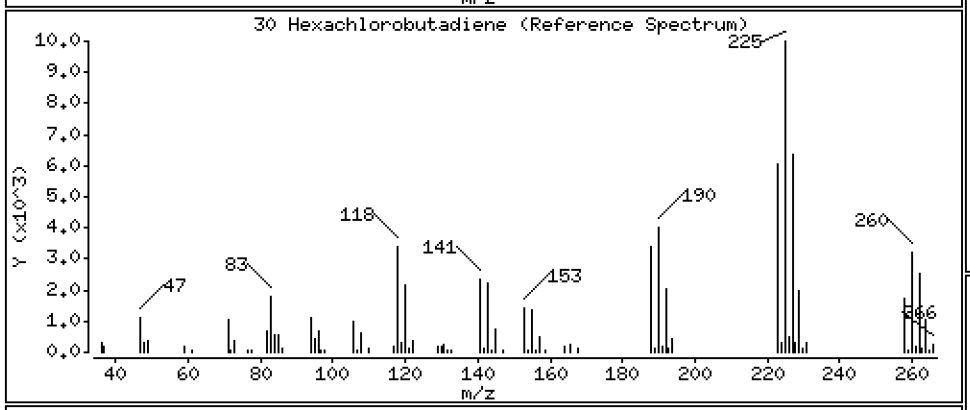
Column diameter: 0.25

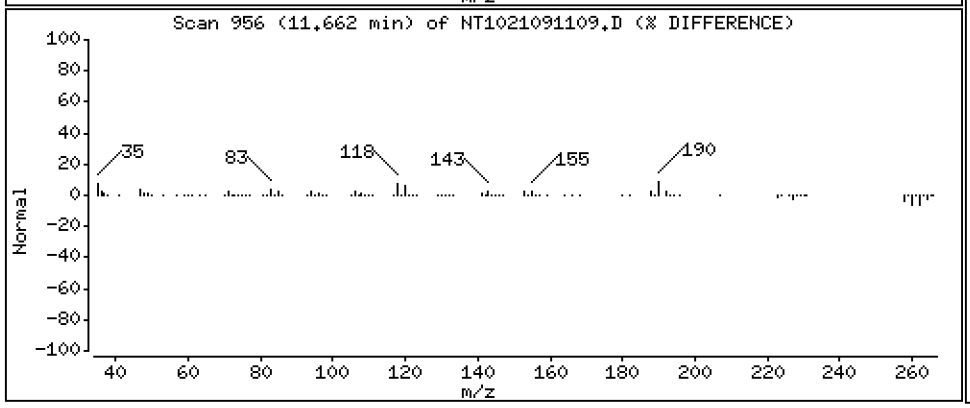
30 Hexachlorobutadiene

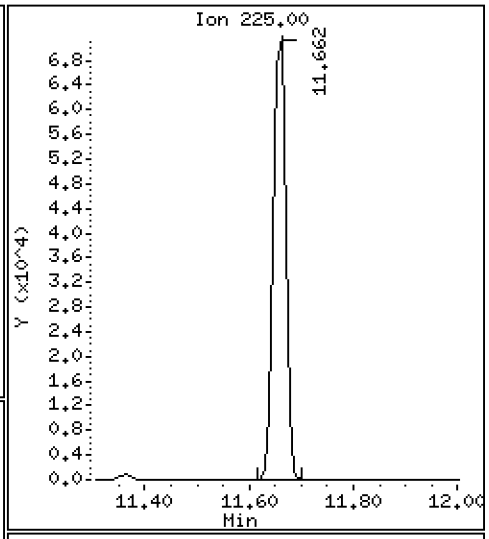
Concentration: 5.593 ug/mL

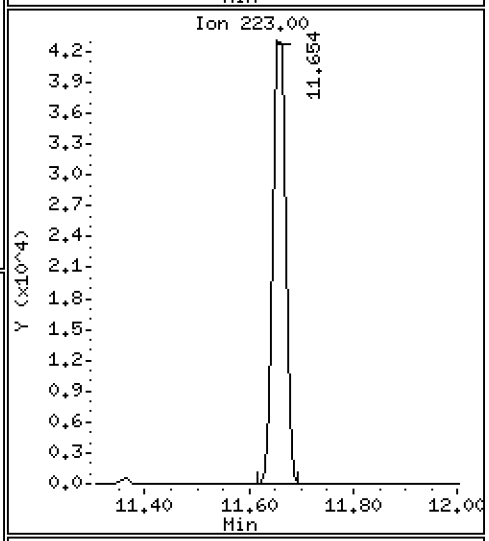


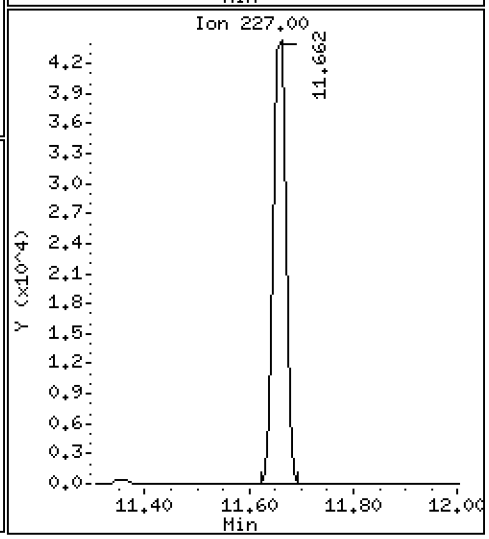












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

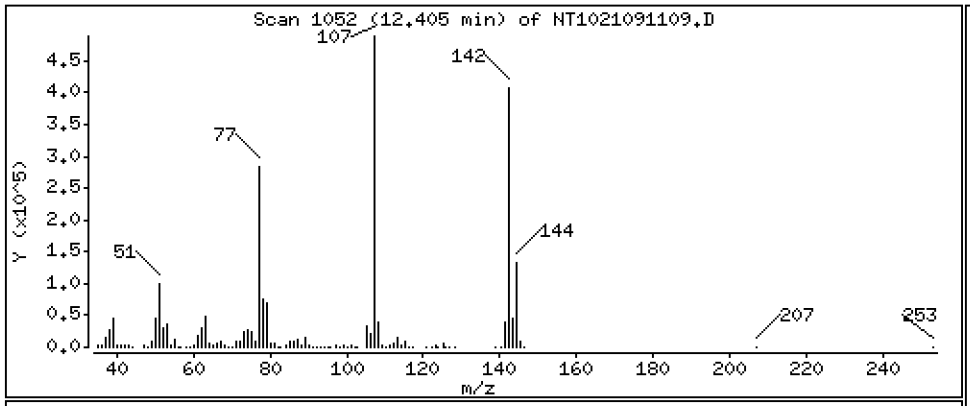
Operator: VTS

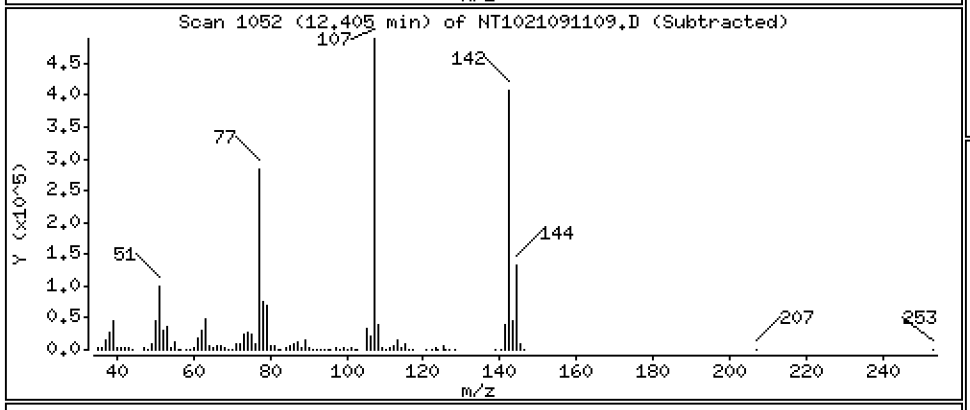
Column phase: ZB-5msi

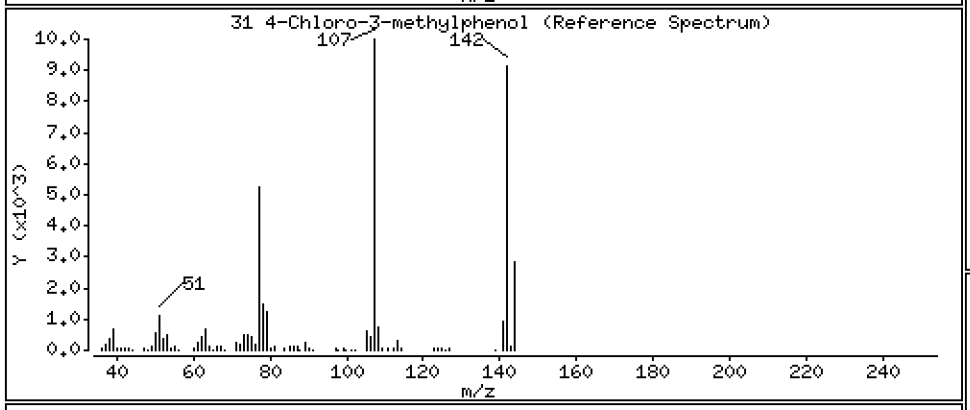
Column diameter: 0.25

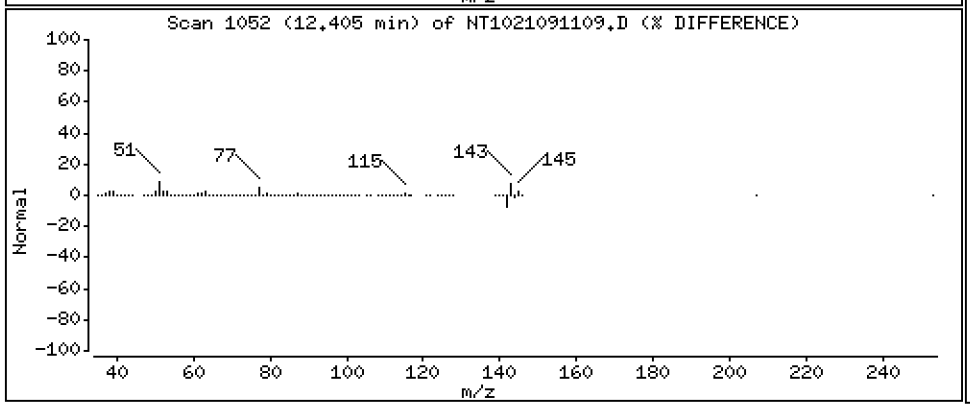
31 4-Chloro-3-methylphenol

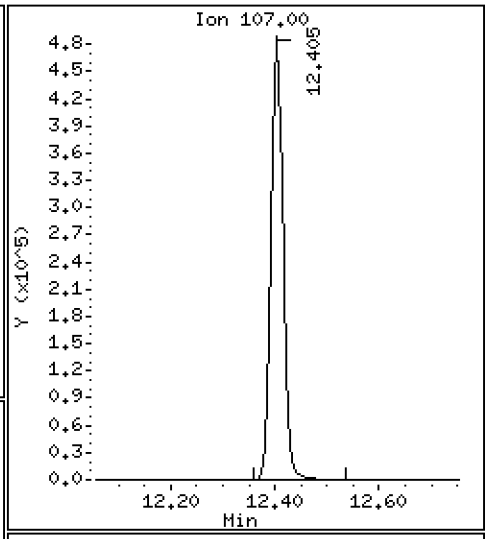
Concentration: 19.24 ug/mL

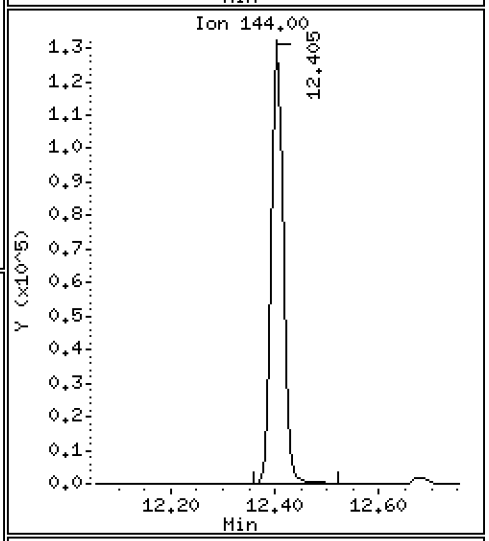


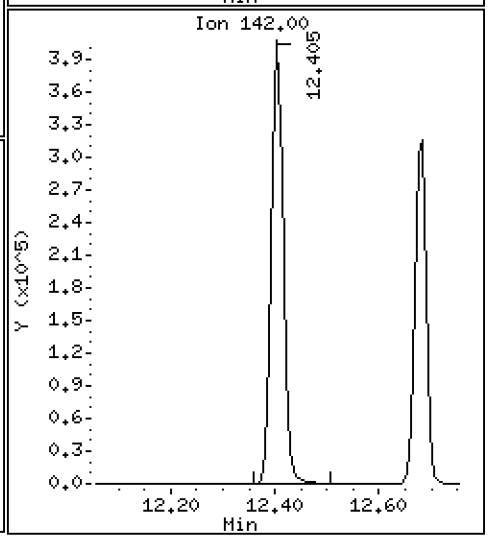












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

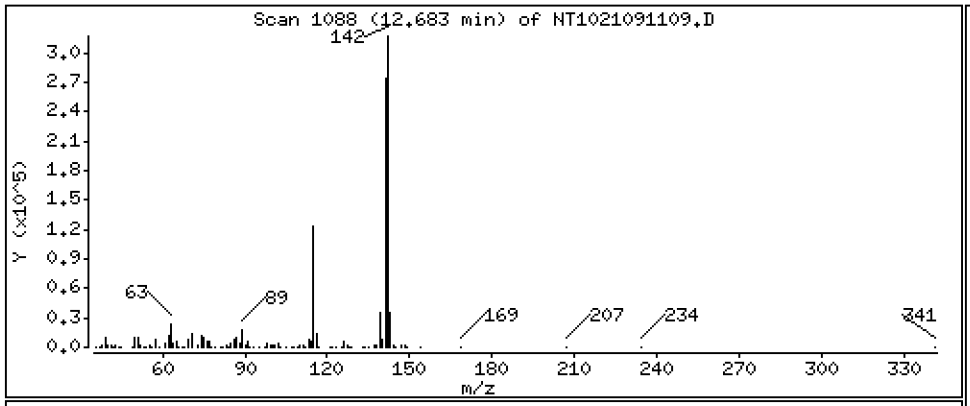
Operator: VTS

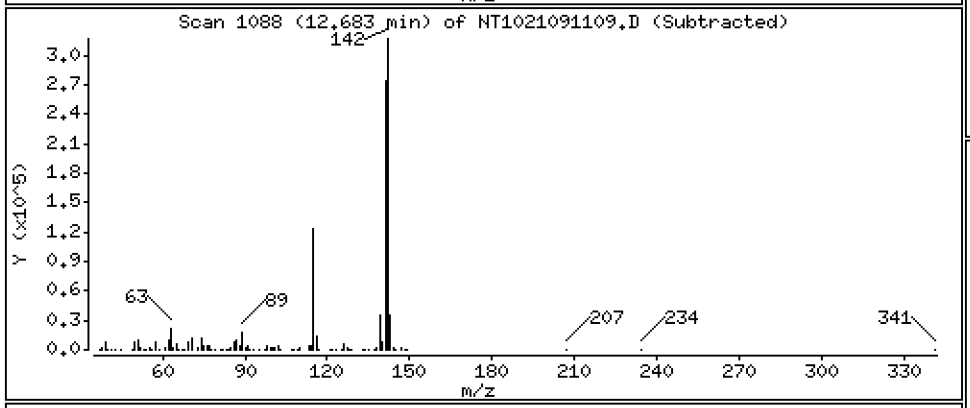
Column phase: ZB-5msi

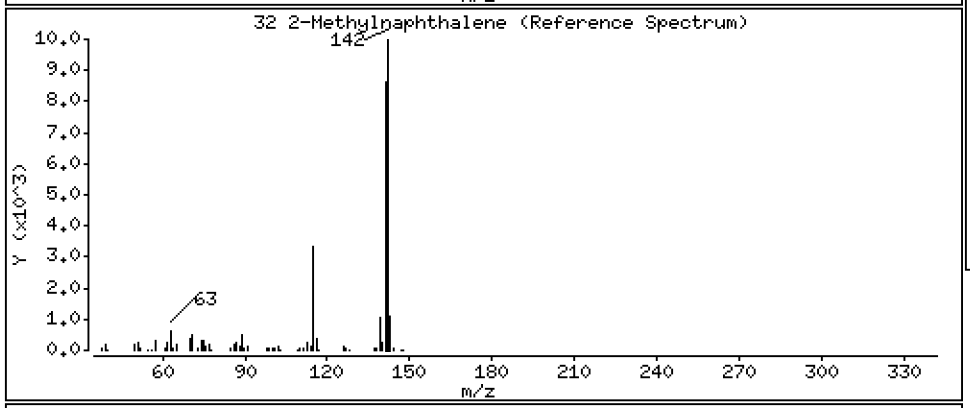
Column diameter: 0.25

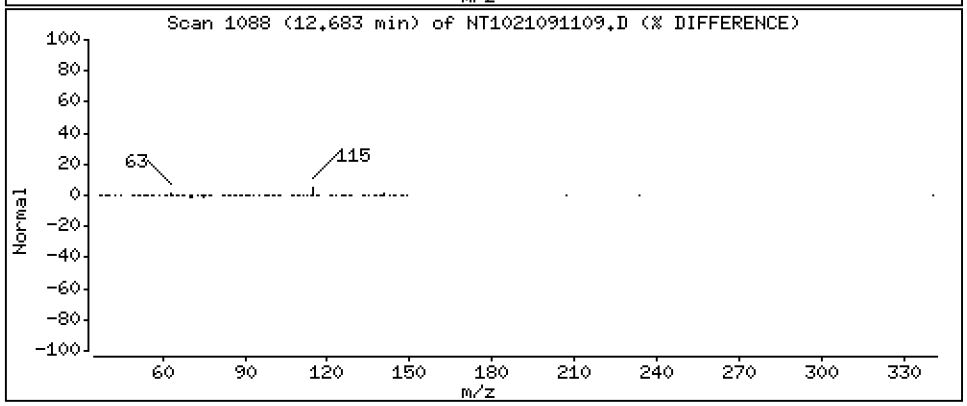
32 2-Methylnaphthalene

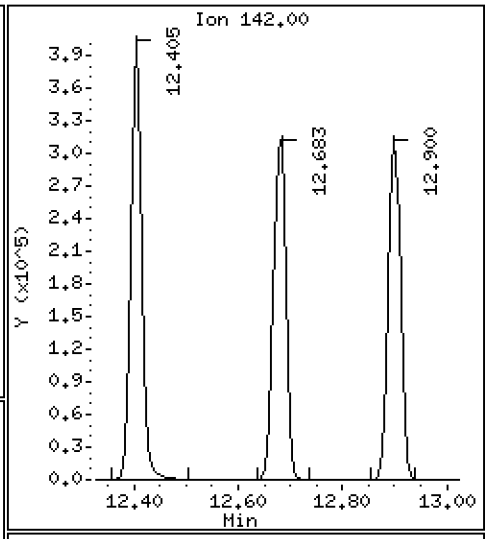
Concentration: 4.896 ug/mL

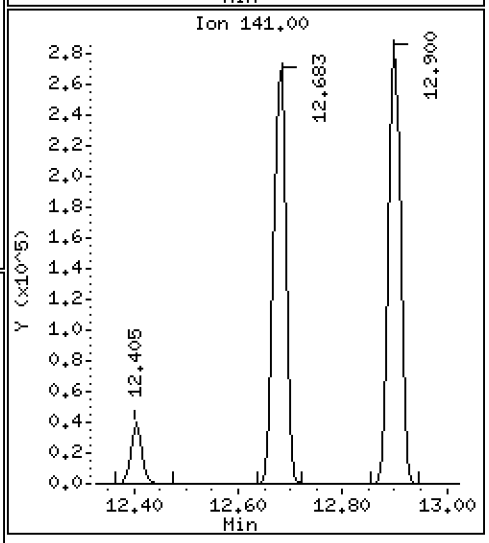












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

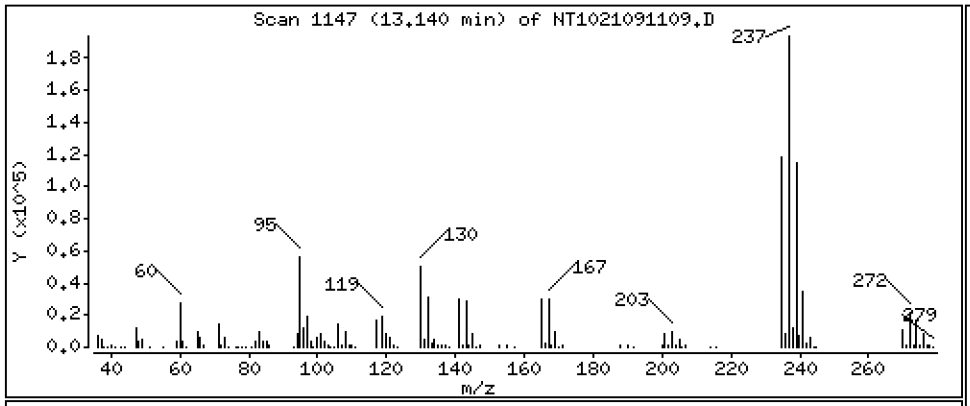
Operator: VTS

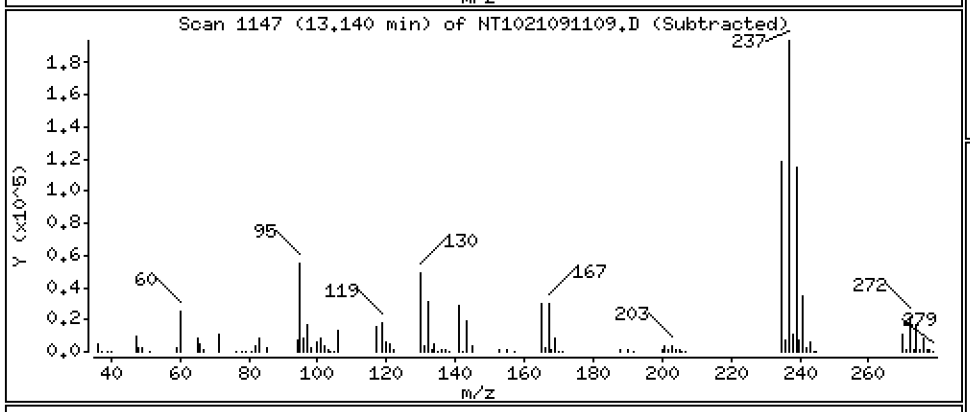
Column phase: ZB-5msi

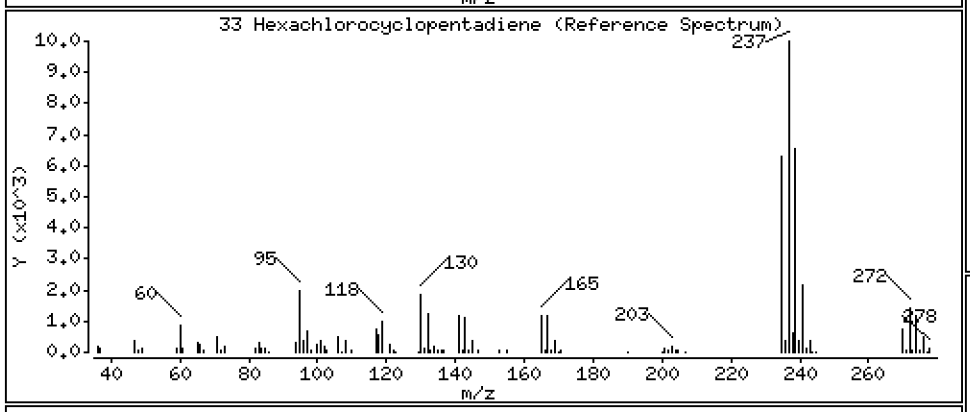
Column diameter: 0.25

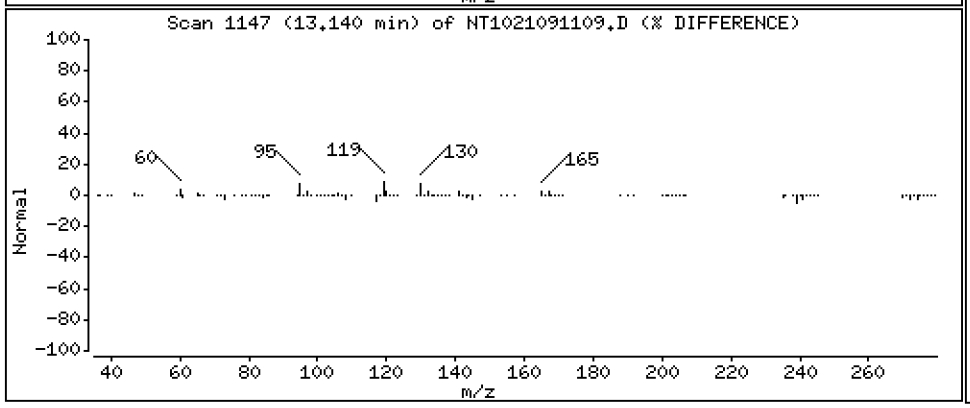
33 Hexachlorocyclopentadiene

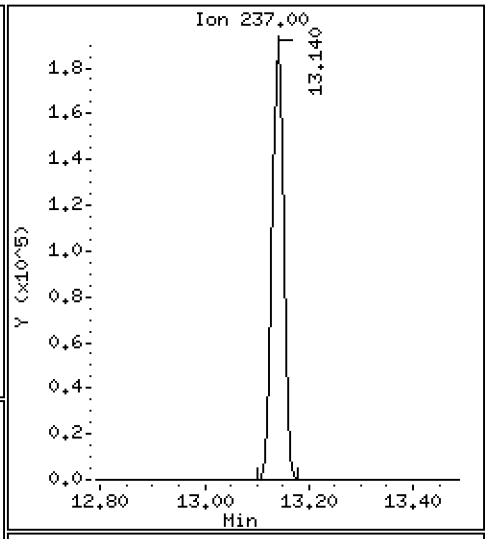
Concentration: 13.58 ug/mL

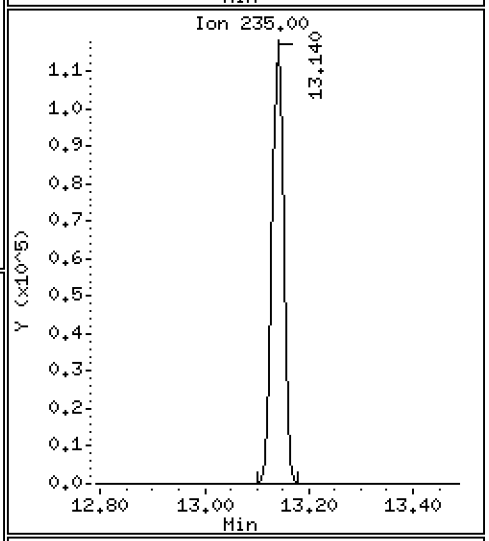


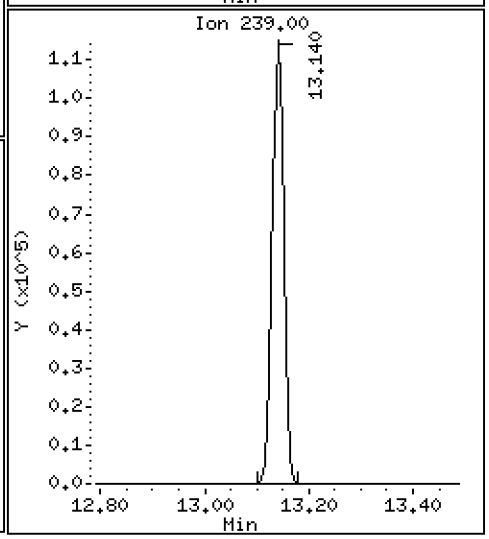












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

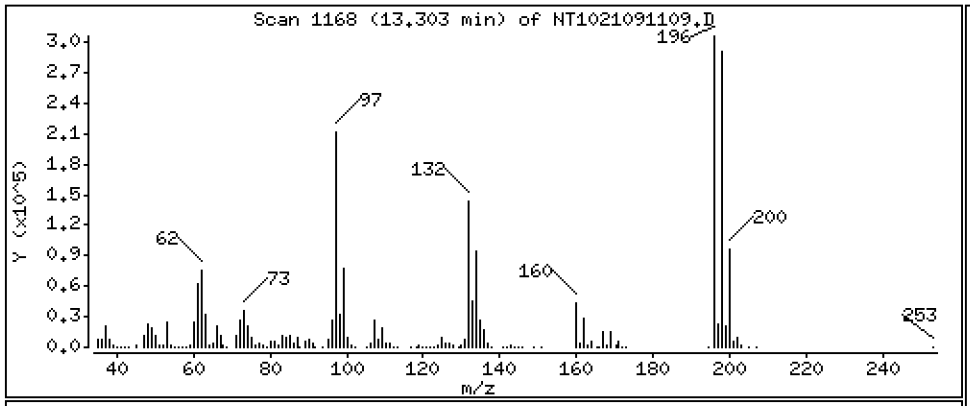
Operator: VTS

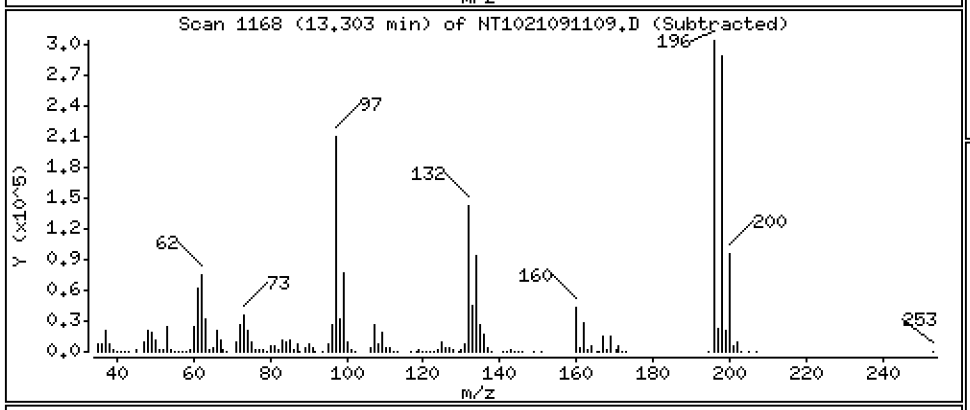
Column phase: ZB-5msi

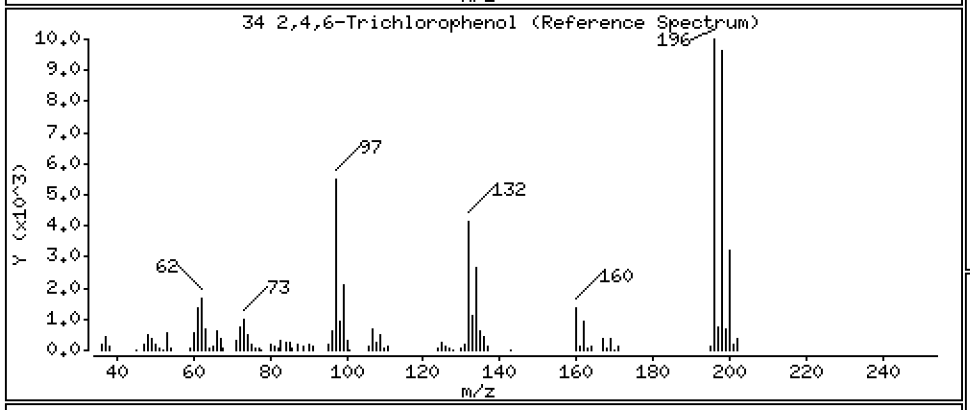
Column diameter: 0.25

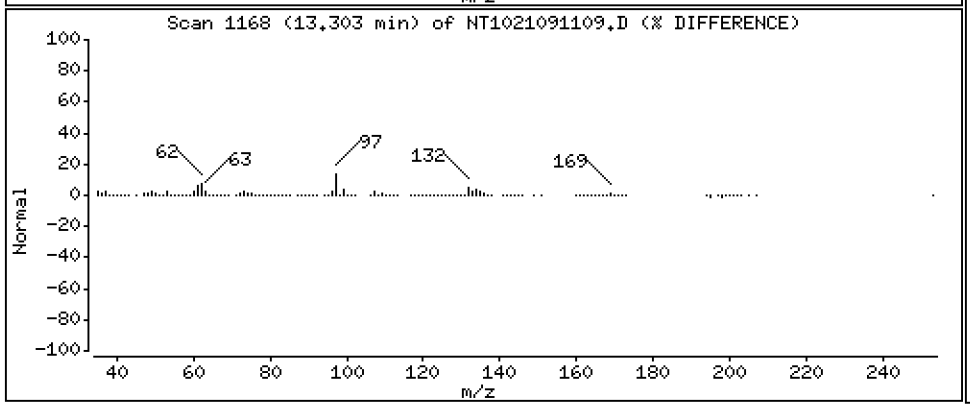
34 2,4,6-Trichlorophenol

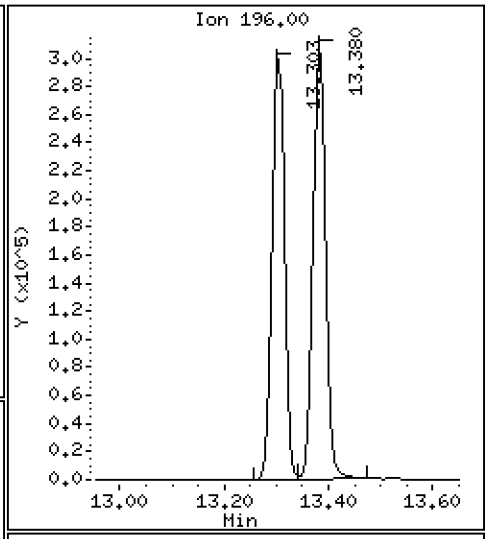
Concentration: 16.91 ug/mL

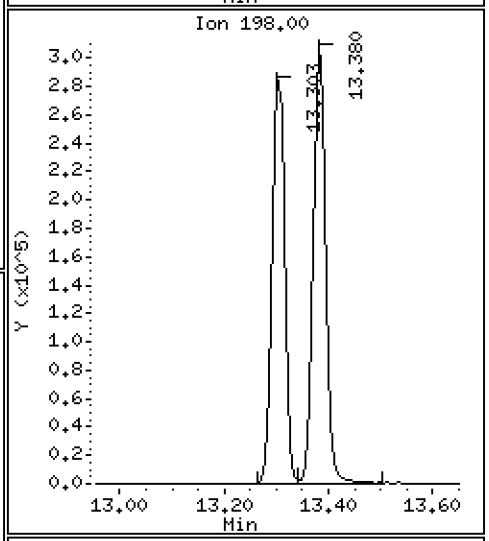


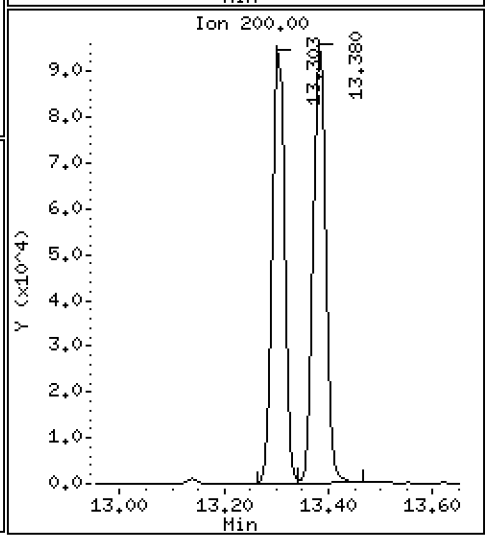












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

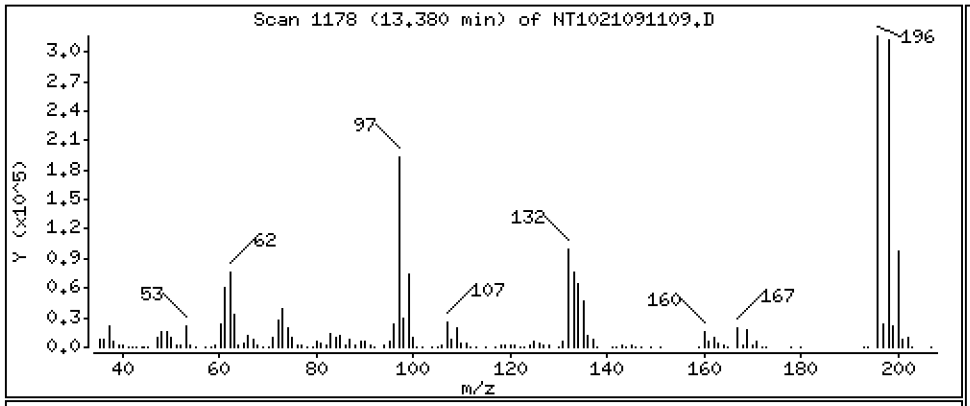
Operator: VTS

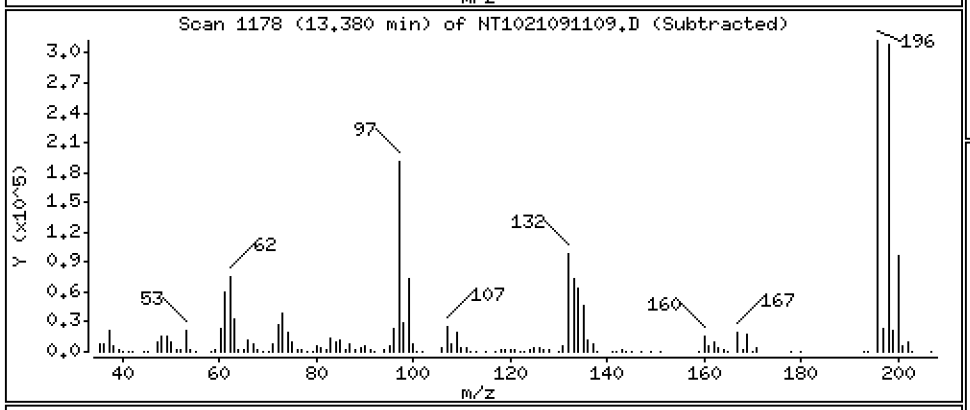
Column phase: ZB-5msi

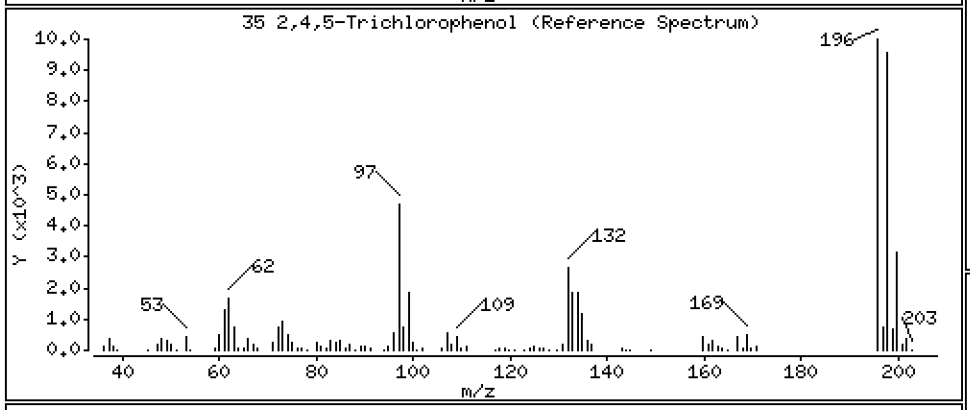
Column diameter: 0.25

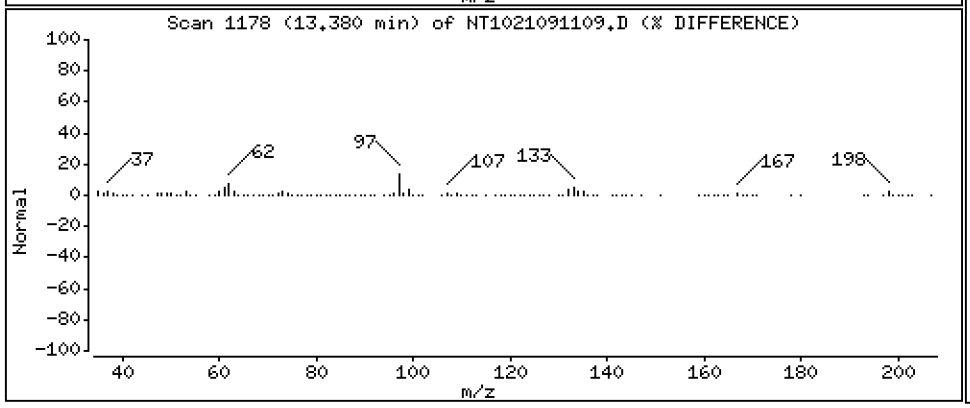
35 2,4,5-Trichlorophenol

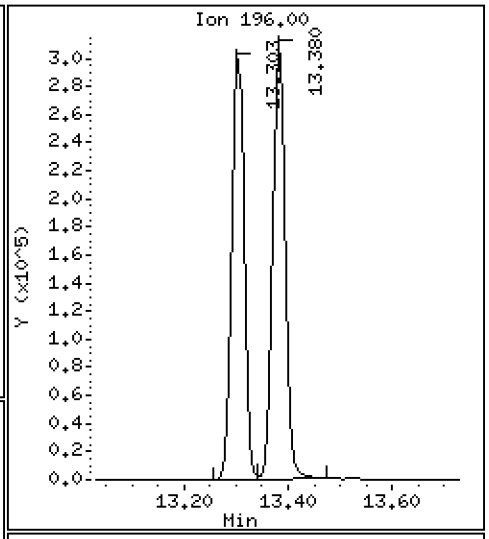
Concentration: 16.82 ug/mL

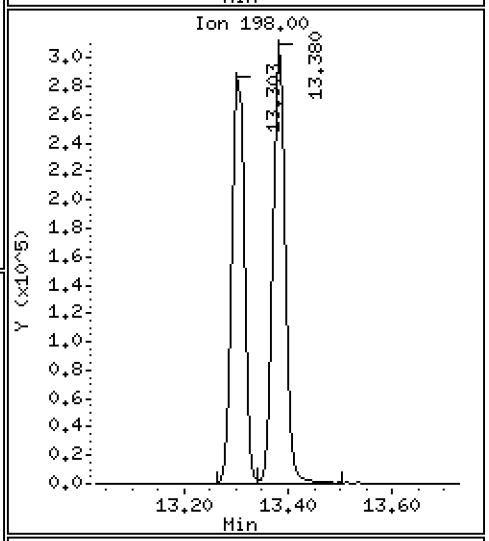


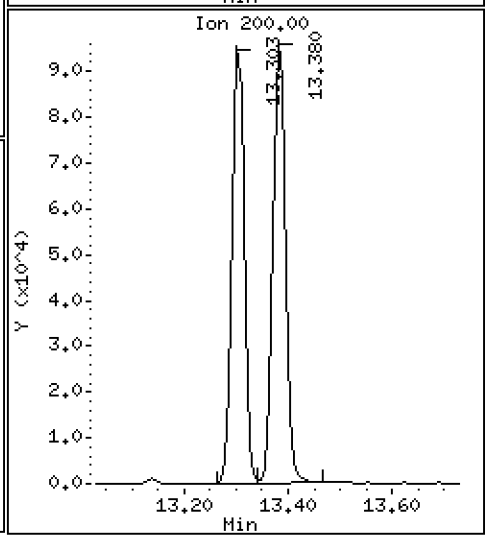












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

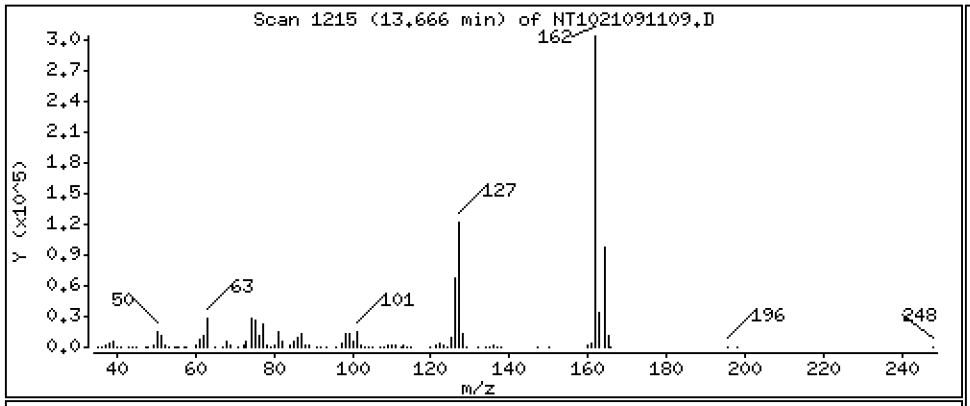
Operator: VTS

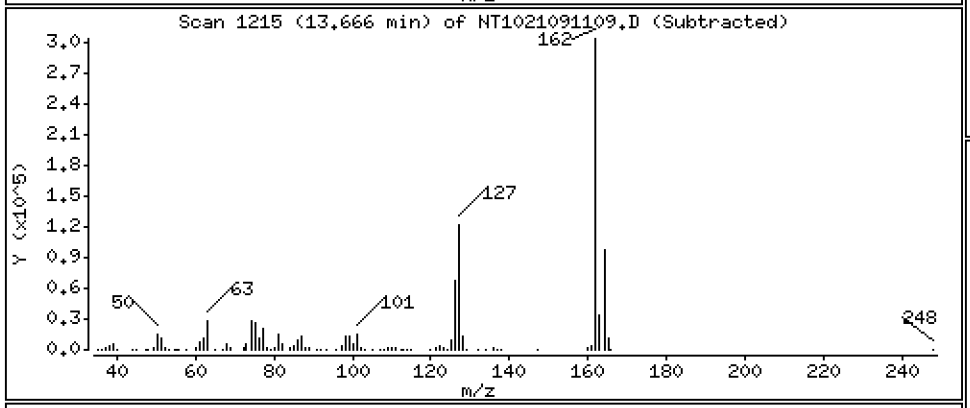
Column phase: ZB-5msi

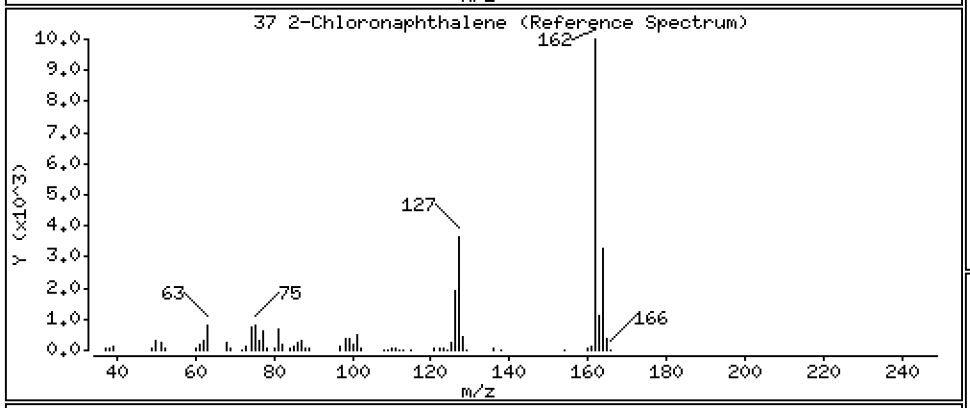
Column diameter: 0.25

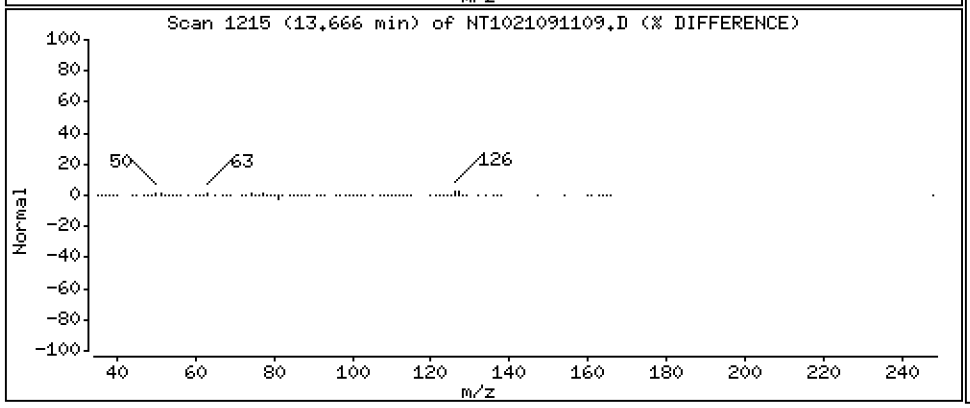
37 2-Chloronaphthalene

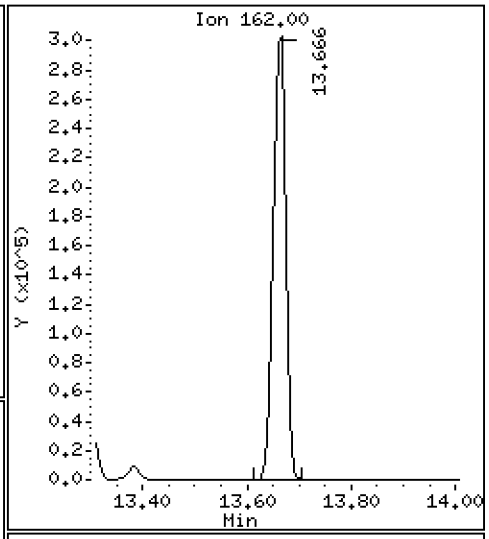
Concentration: 5.568 ug/mL

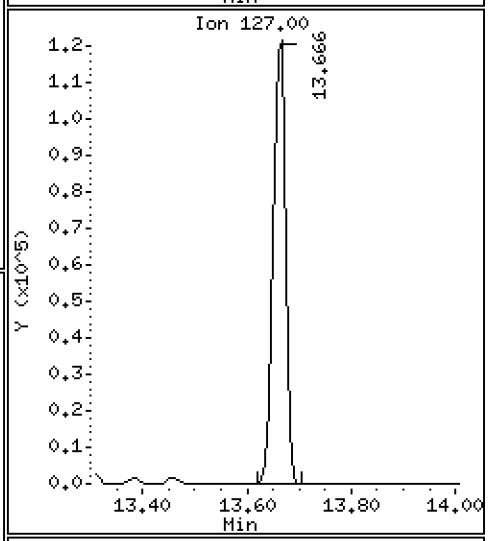


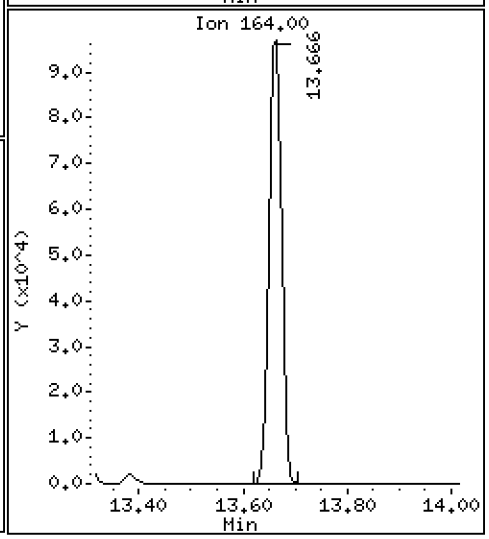












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

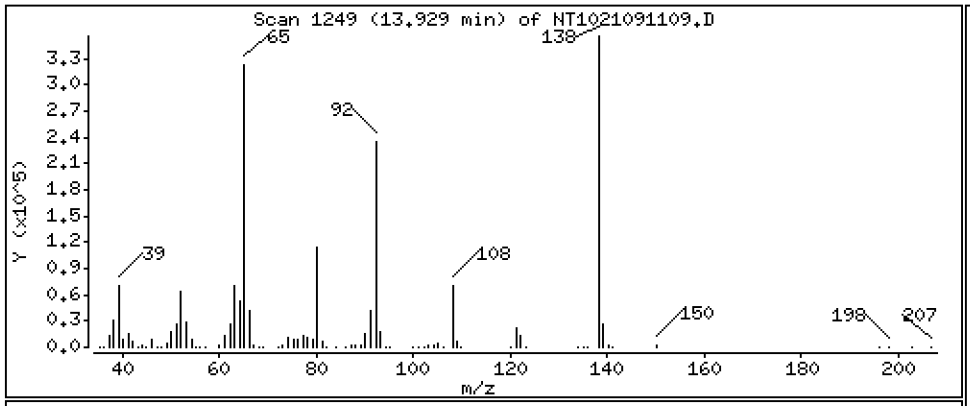
Operator: VTS

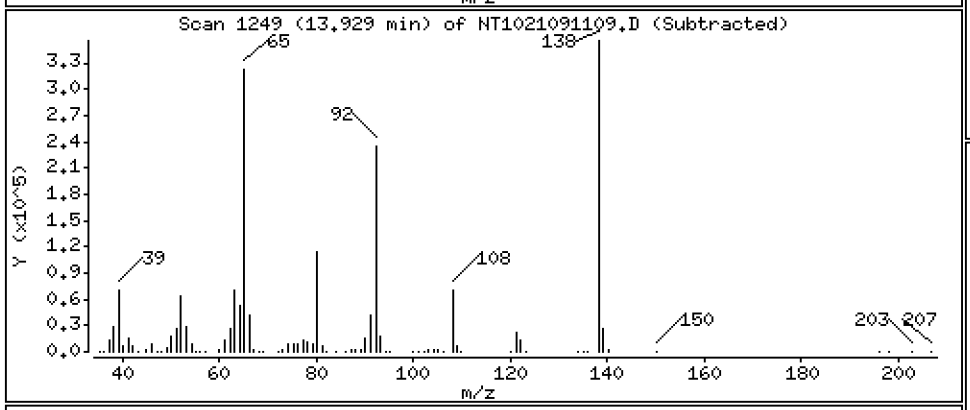
Column phase: ZB-5msi

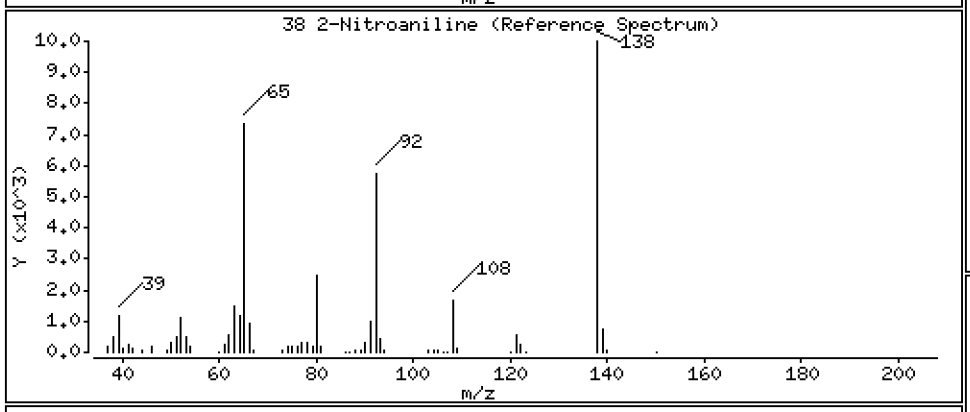
Column diameter: 0.25

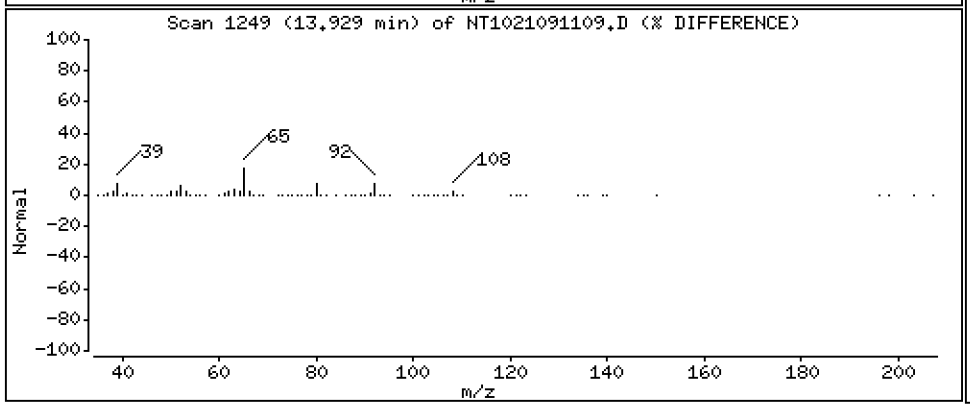
38 2-Nitroaniline

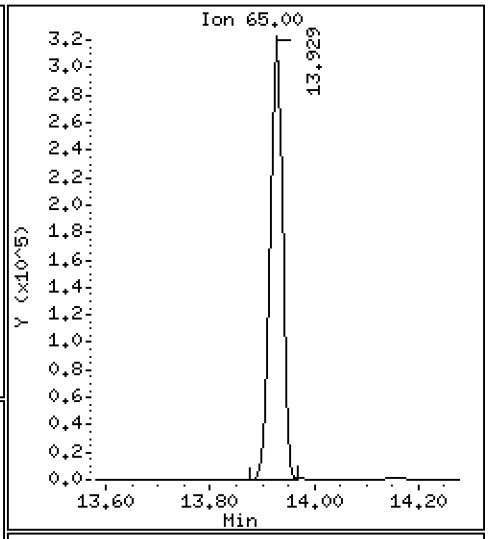
Concentration: 19.37 ug/mL

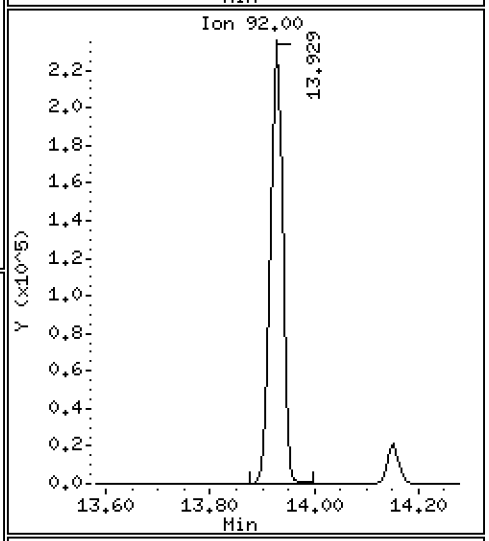


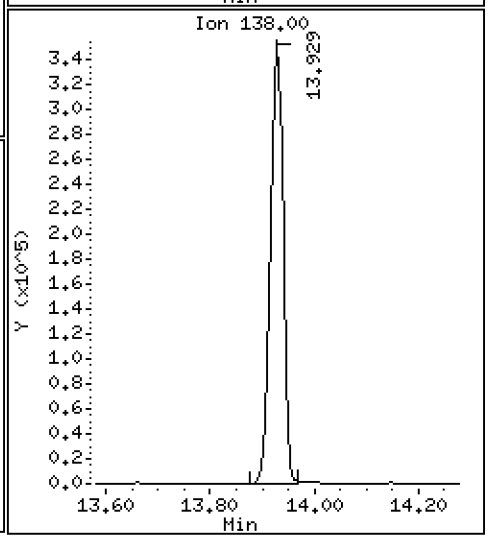












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

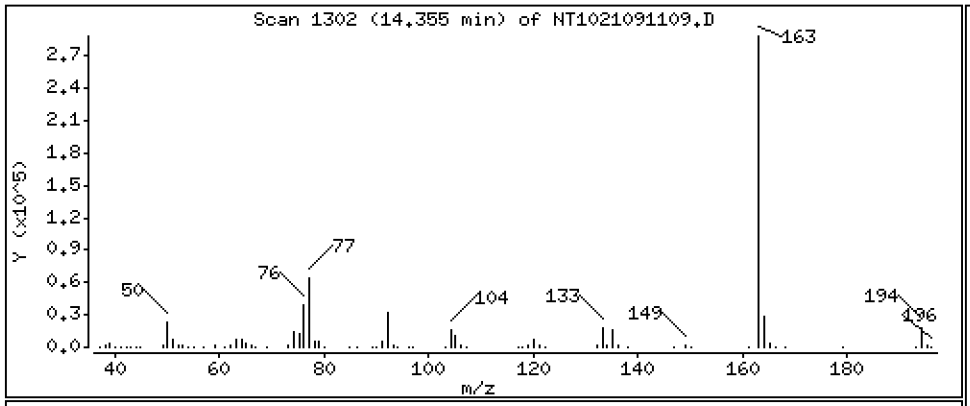
Operator: VTS

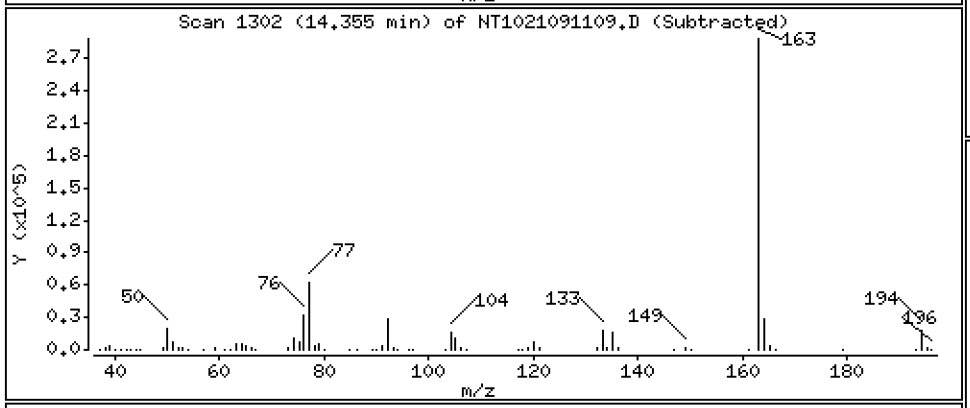
Column phase: ZB-5msi

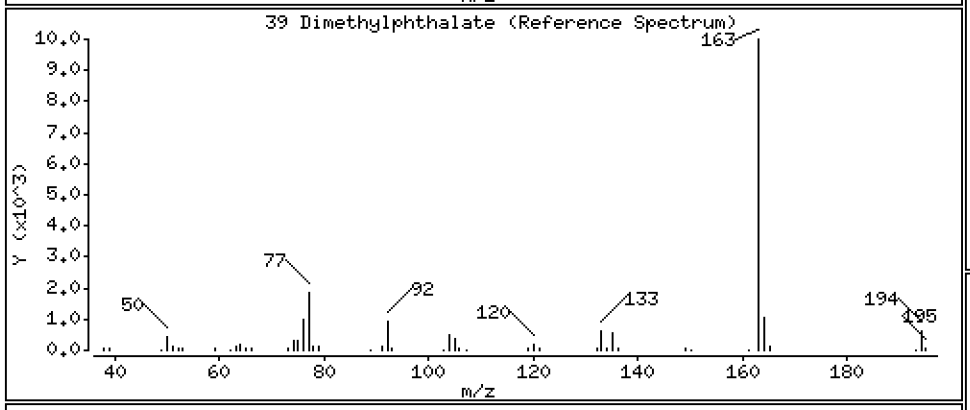
Column diameter: 0.25

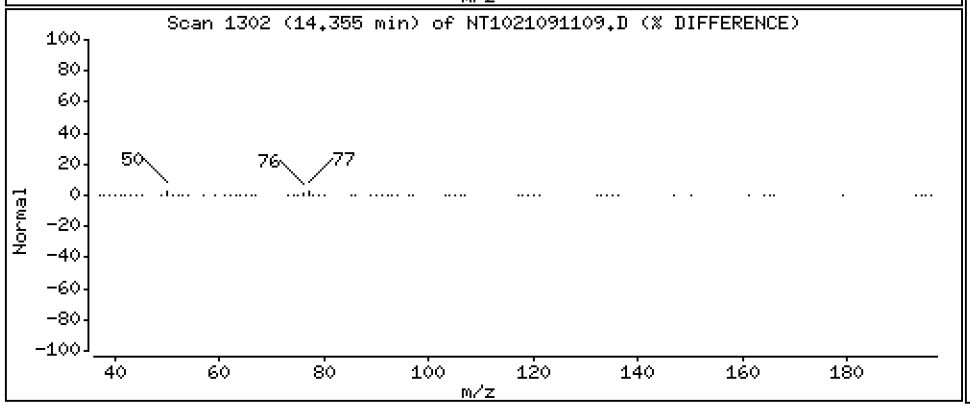
39 Dimethylphthalate

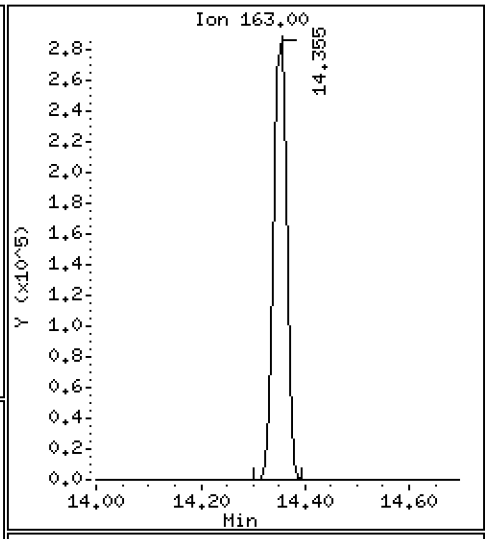
Concentration: 5.326 ug/mL

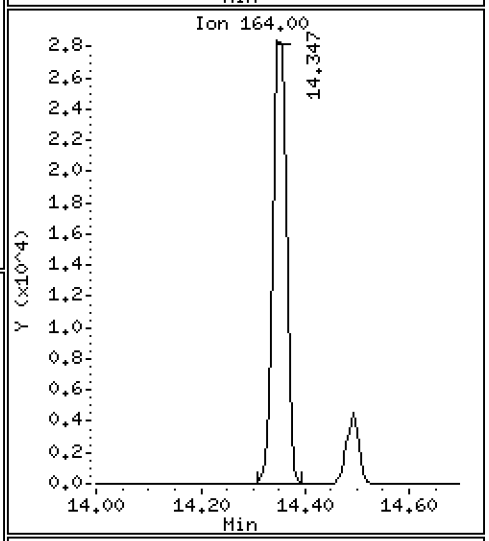


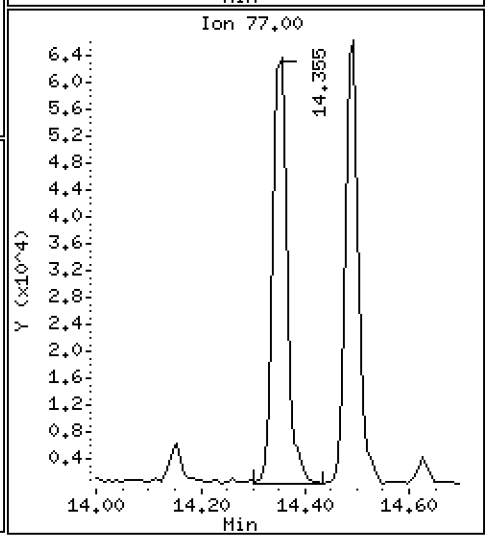












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

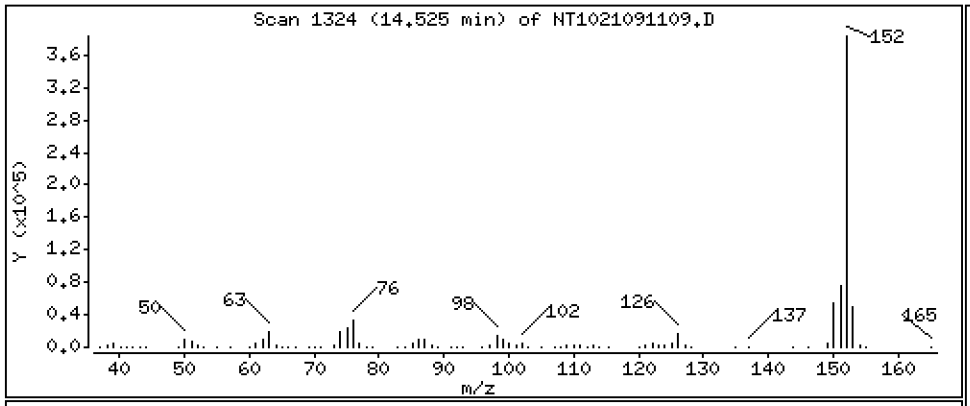
Operator: VTS

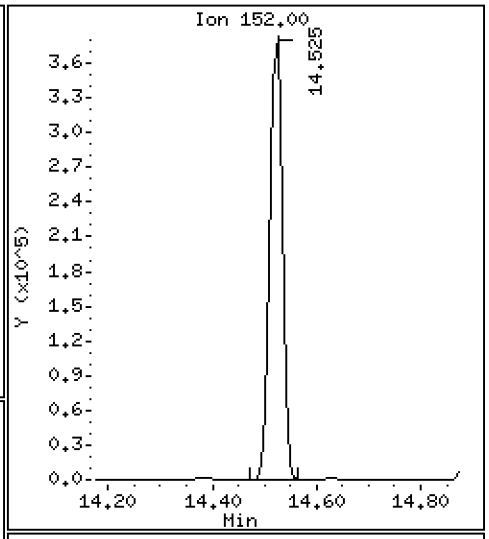
Column phase: ZB-5msi

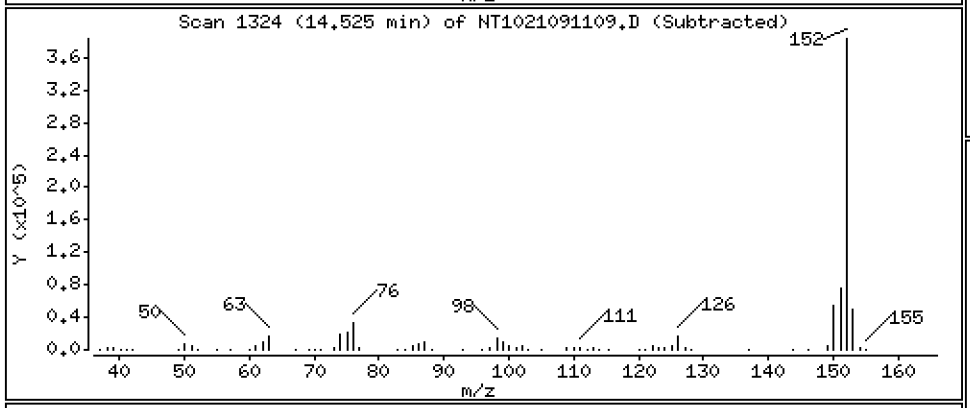
Column diameter: 0.25

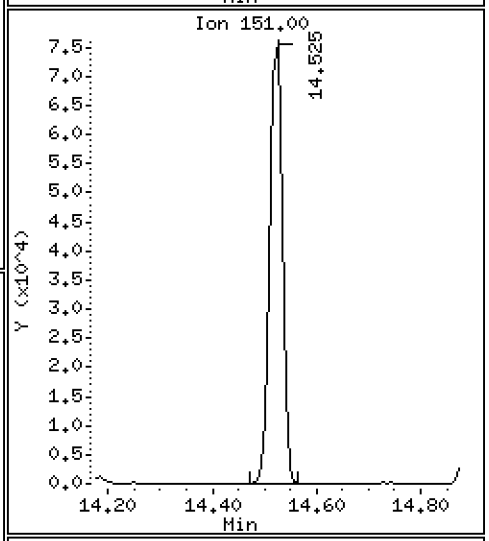
40 Acenaphthylene

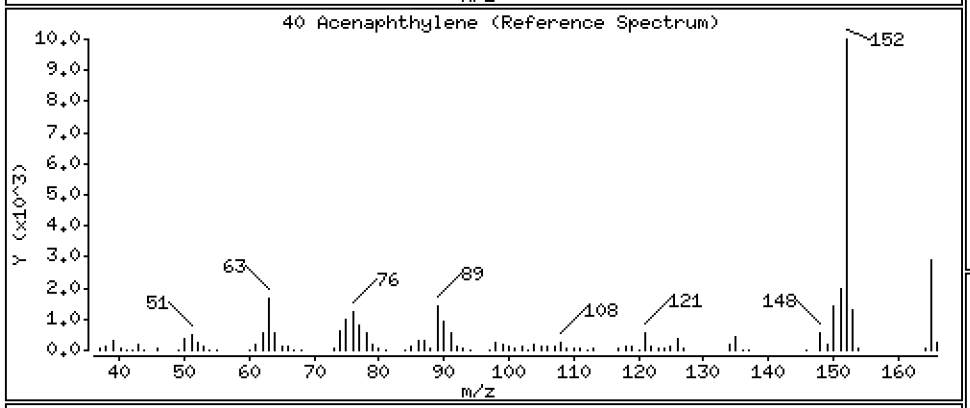
Concentration: 4.503 ug/mL

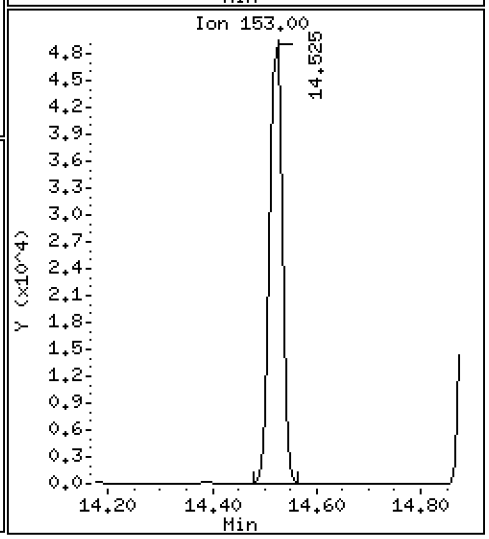


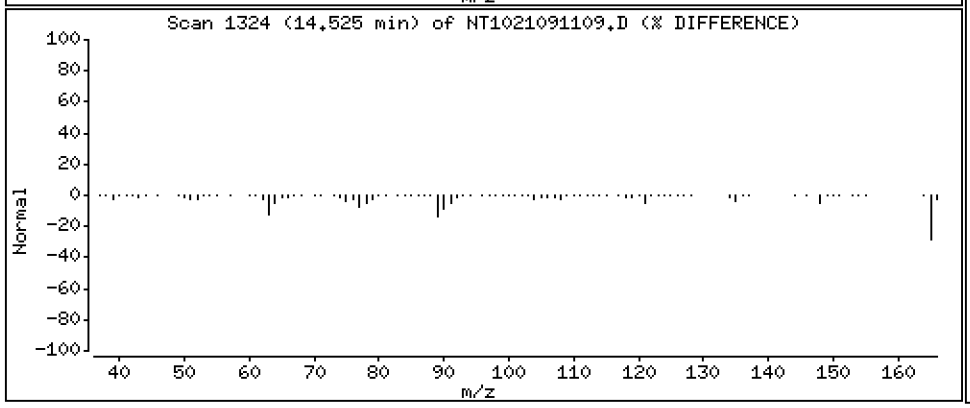












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

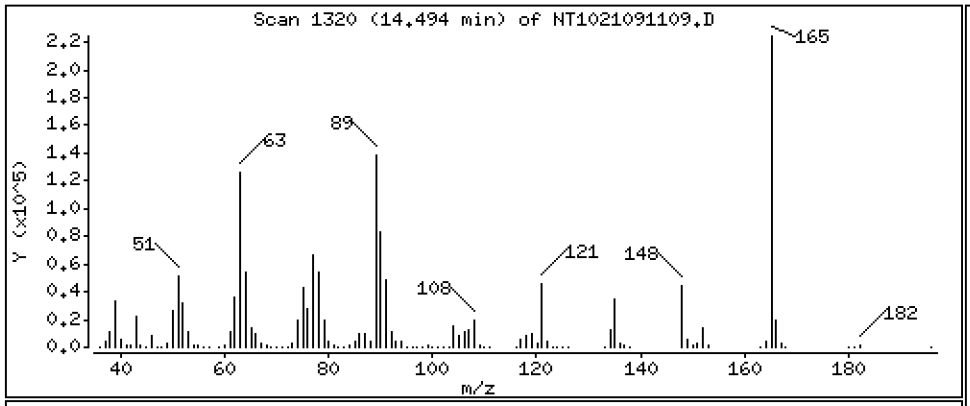
Operator: VTS

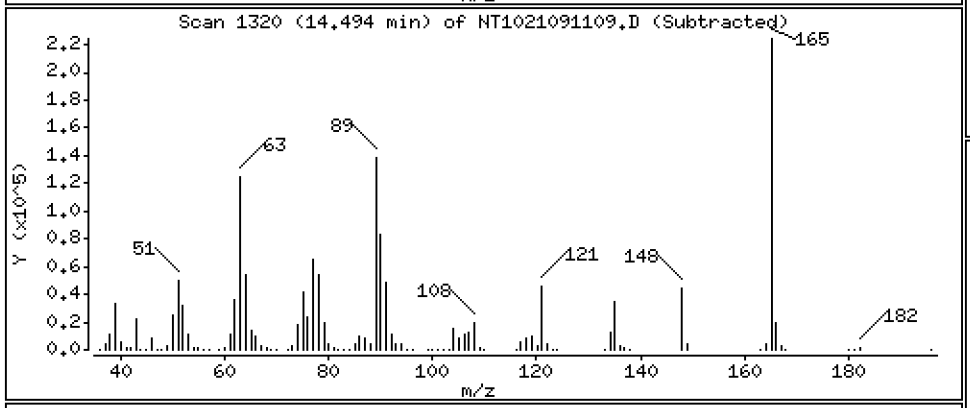
Column phase: ZB-5msi

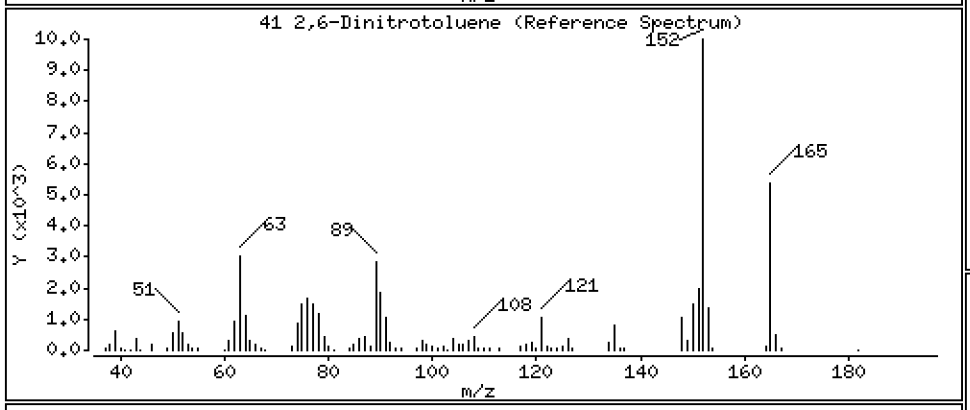
Column diameter: 0.25

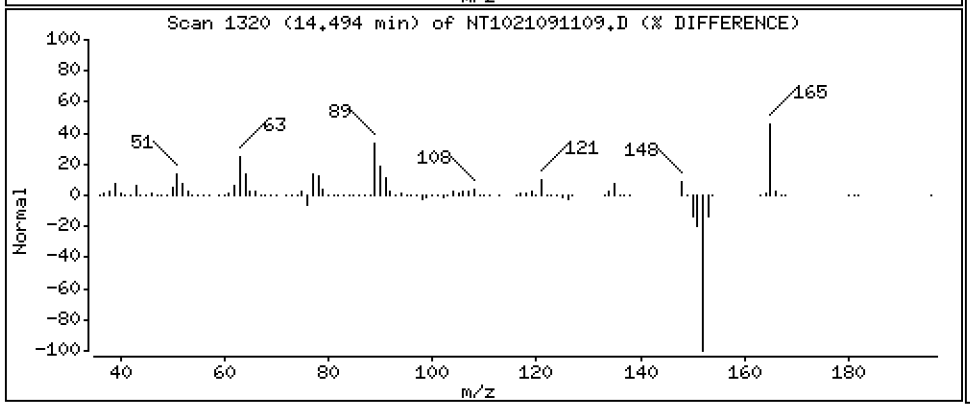
41 2,6-Dinitrotoluene

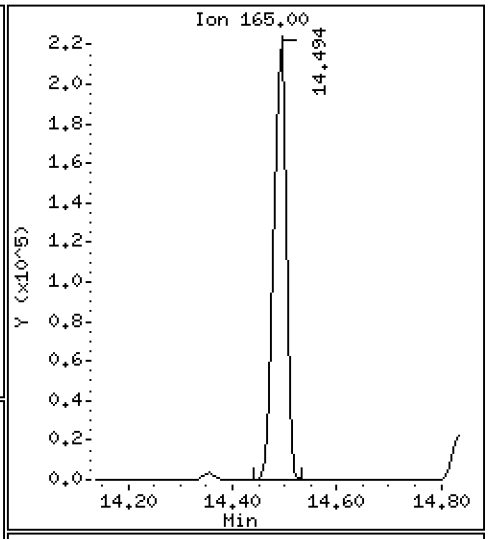
Concentration: 18.07 ug/mL

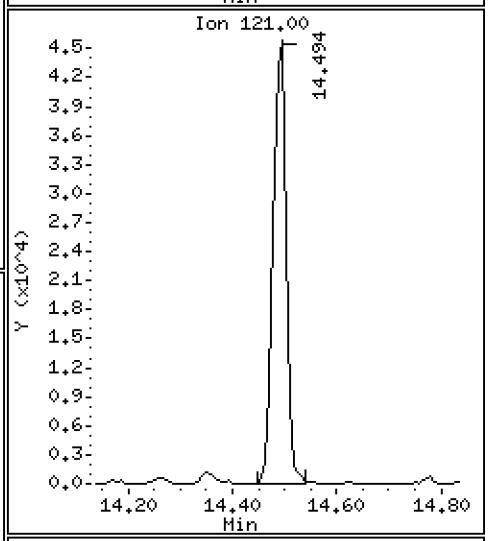


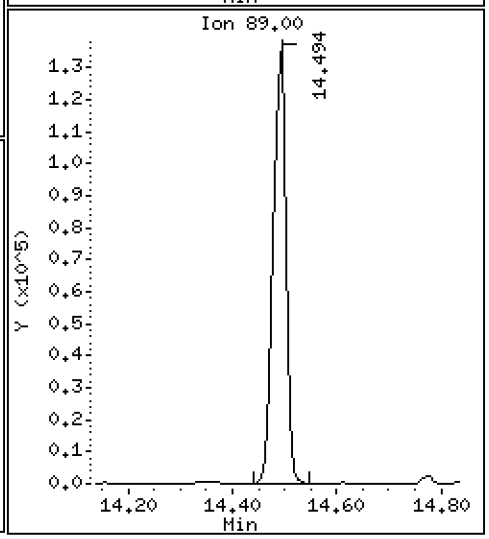












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

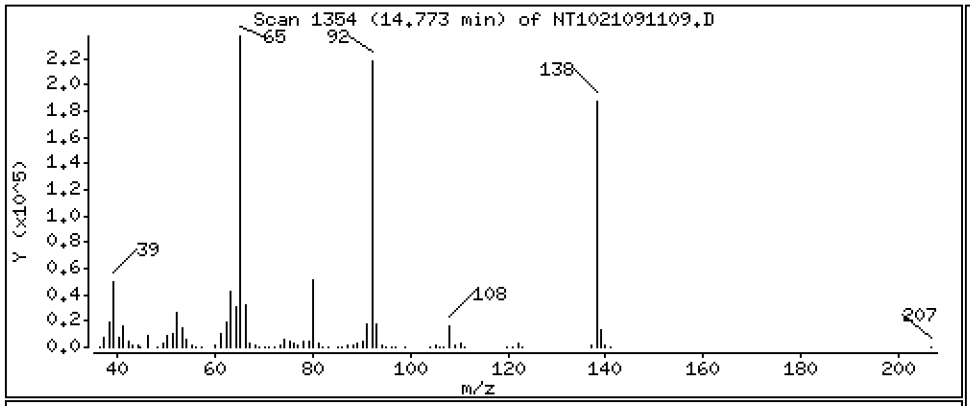
Operator: VTS

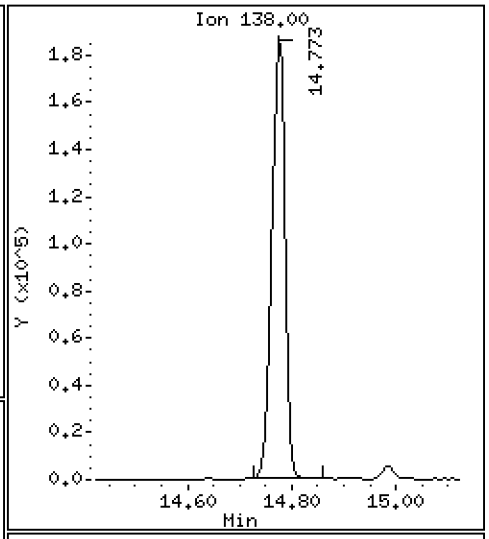
Column phase: ZB-5msi

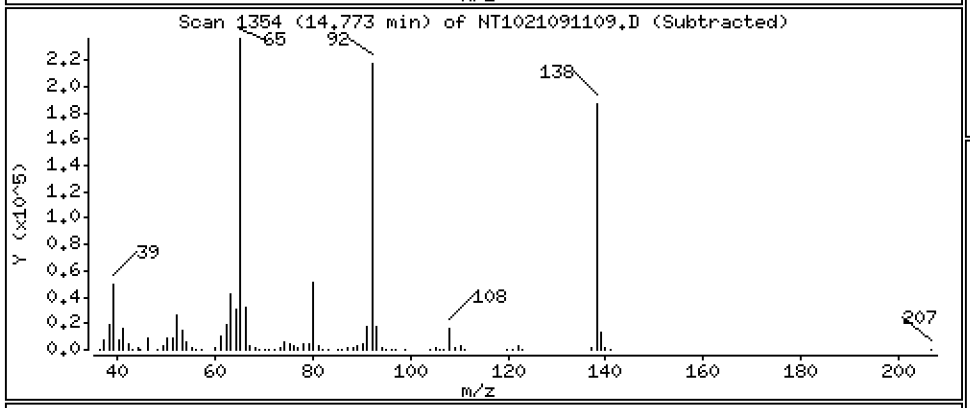
Column diameter: 0.25

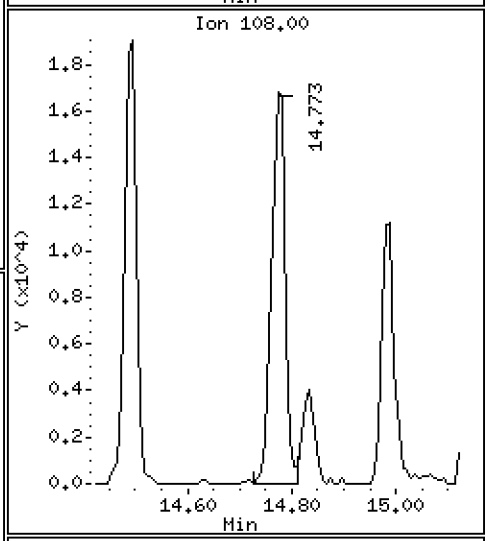
43 3-Nitroaniline

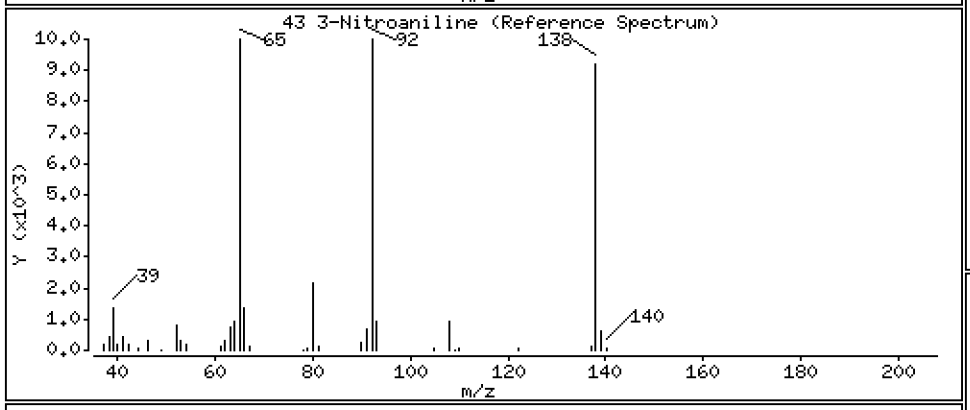
Concentration: 11.64 ug/mL

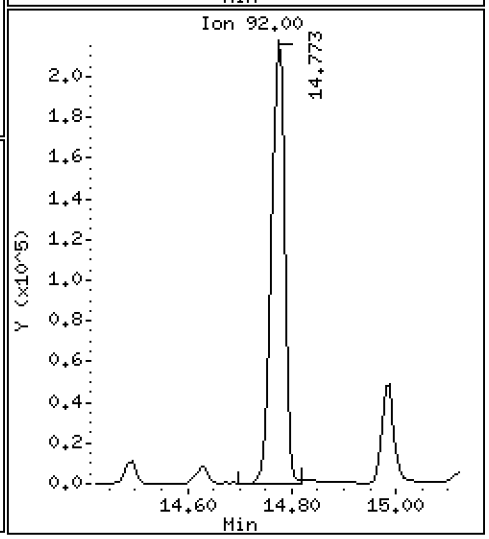


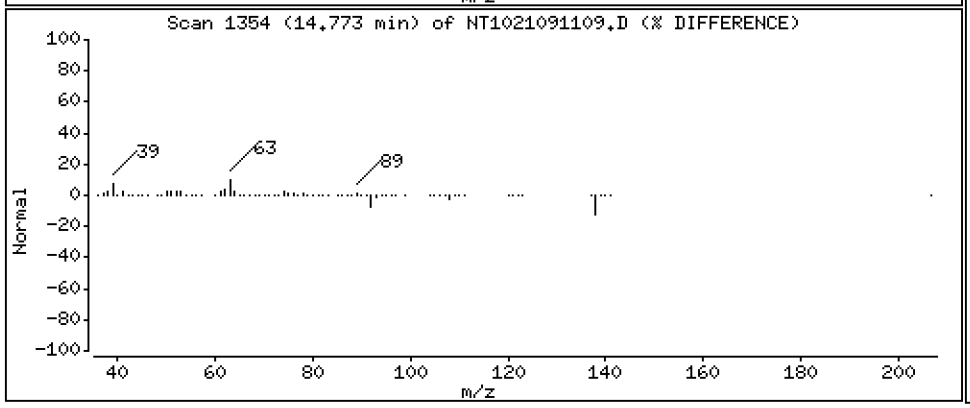












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

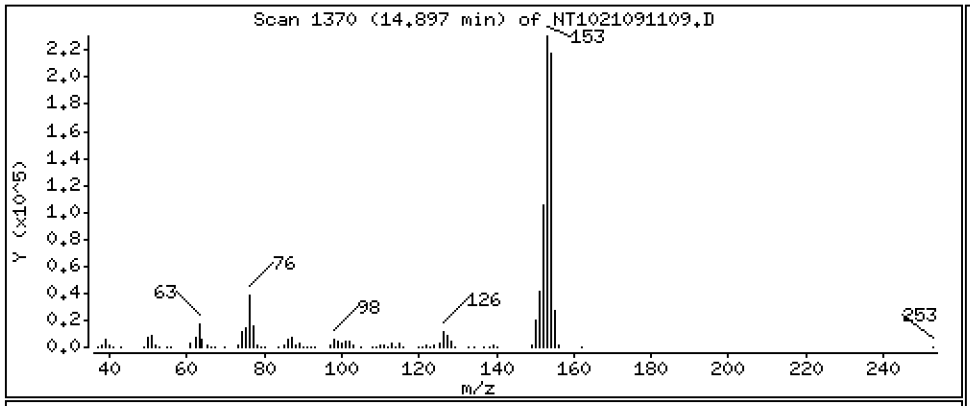
Operator: VTS

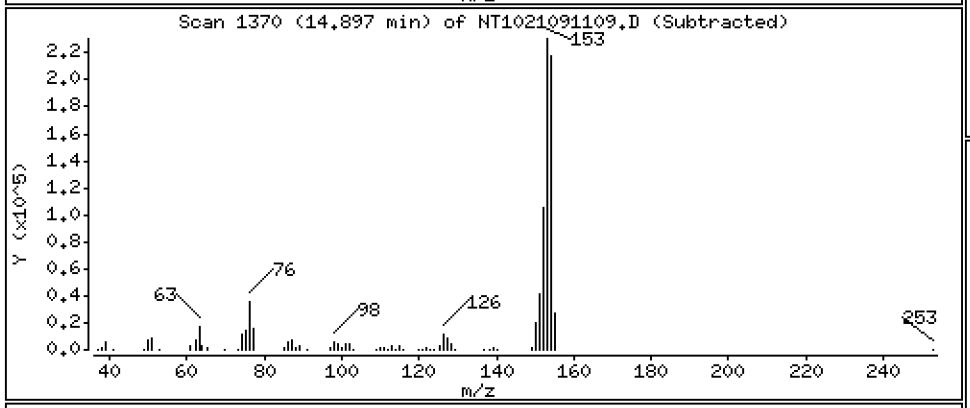
Column phase: ZB-5msi

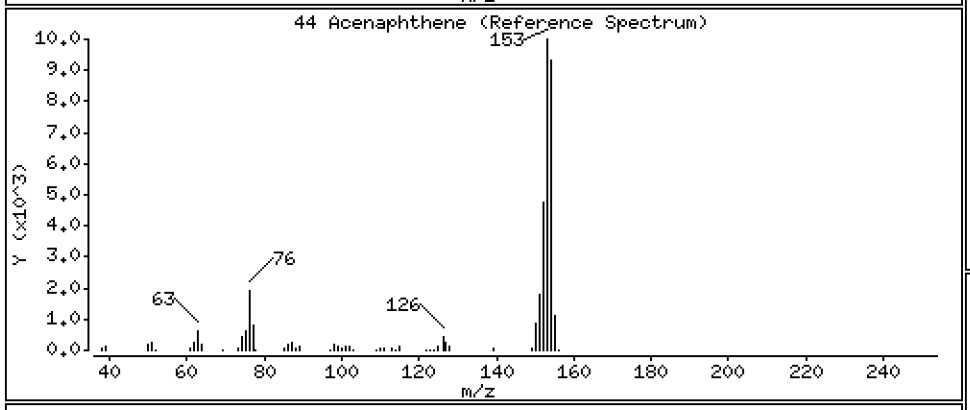
Column diameter: 0.25

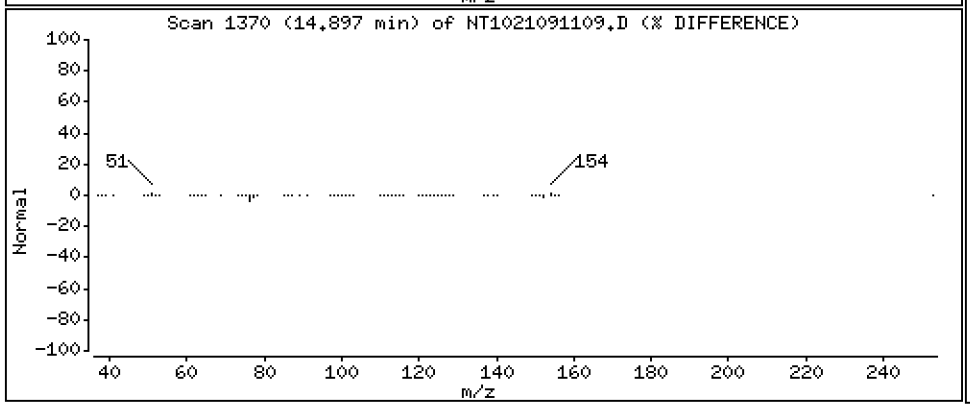
44 Acenaphthene

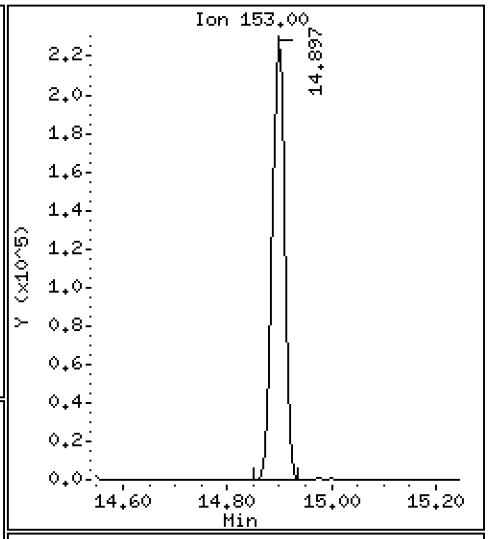
Concentration: 5.011 ug/mL

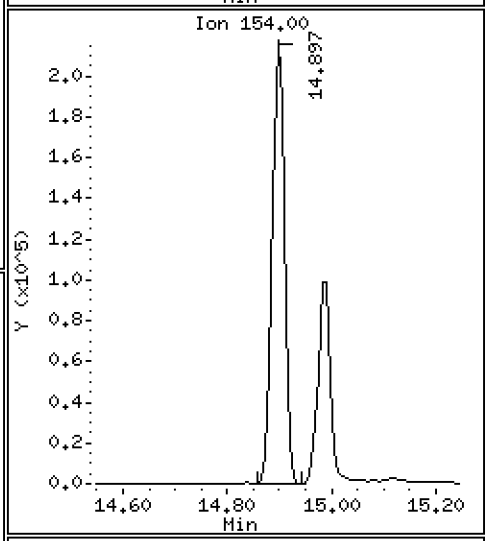


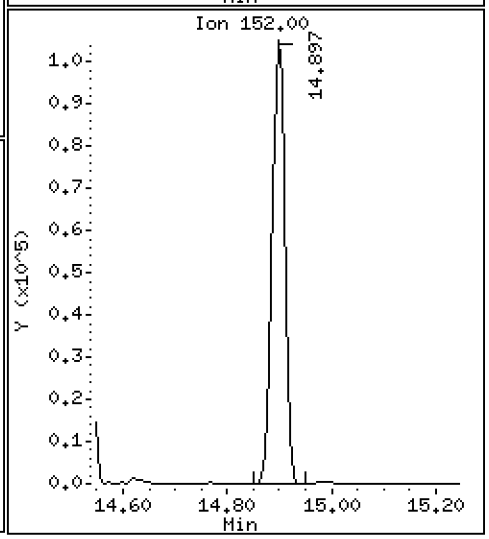












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

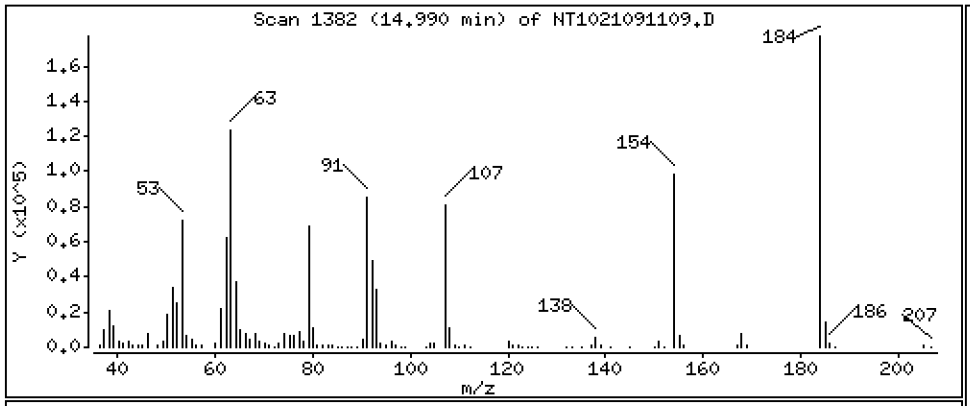
Operator: VTS

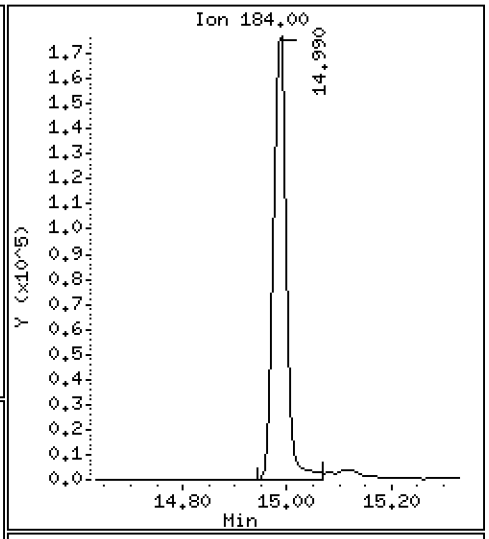
Column phase: ZB-5msi

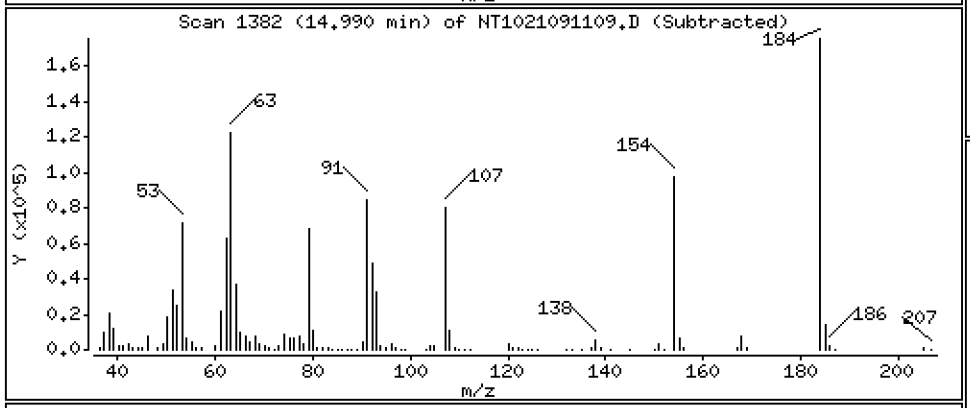
Column diameter: 0.25

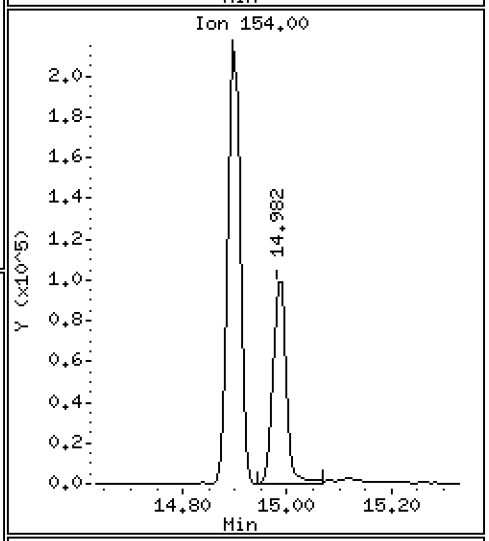
45 2,4-Dinitrophenol

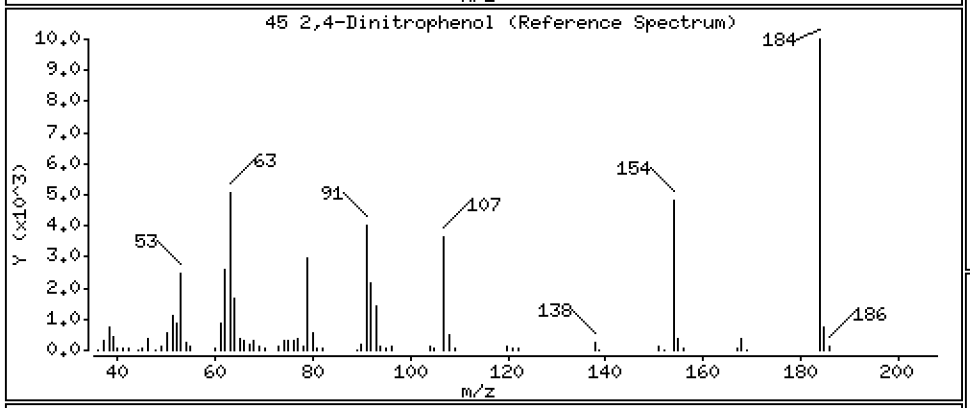
Concentration: 26.93 ug/mL

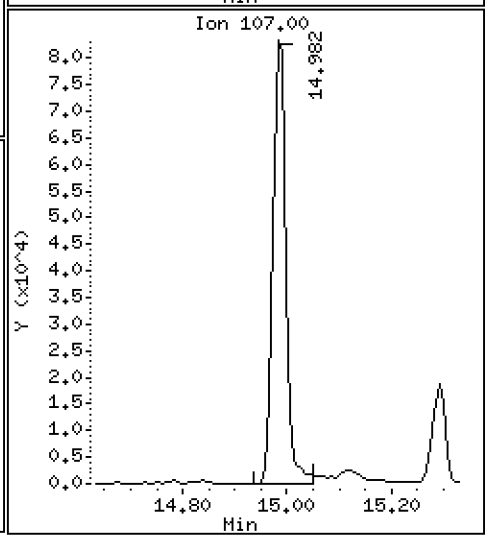


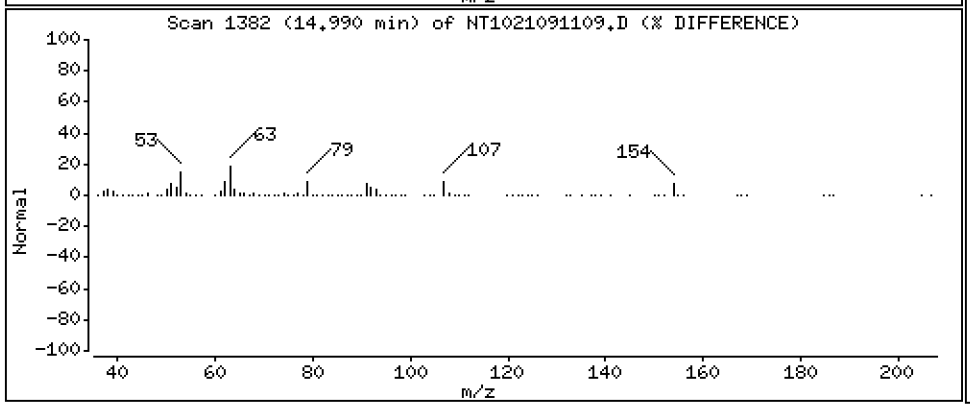












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

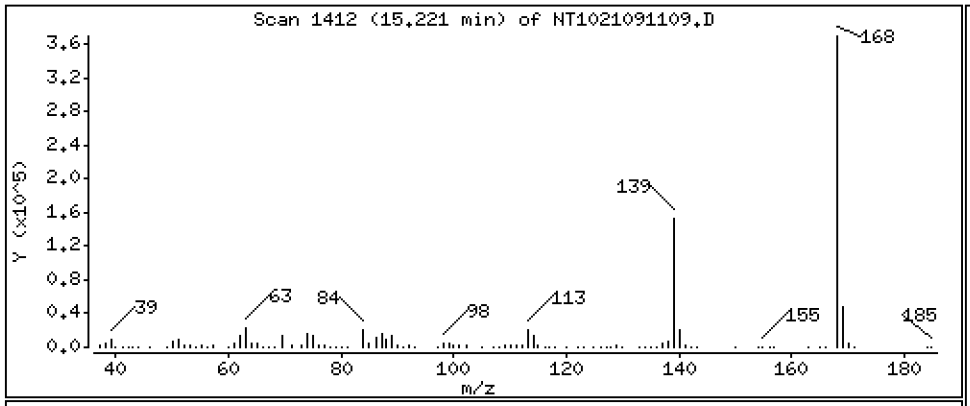
Operator: VTS

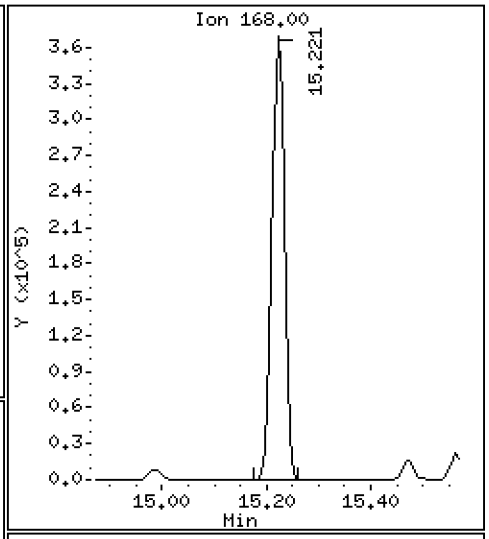
Column phase: ZB-5msi

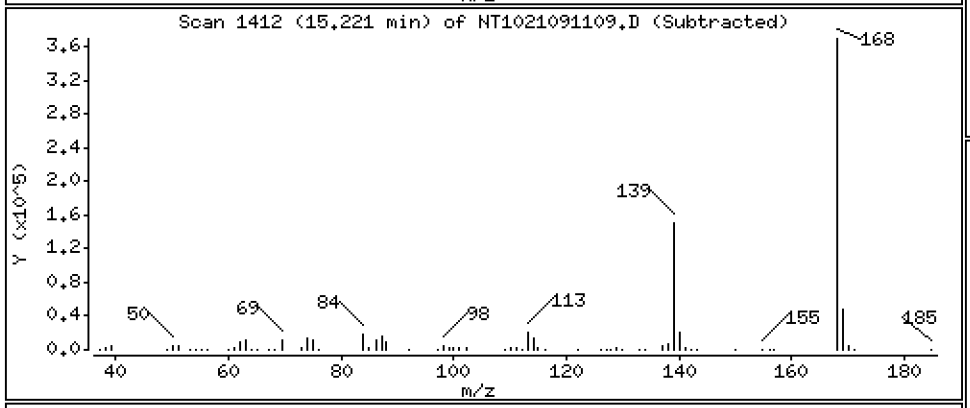
Column diameter: 0.25

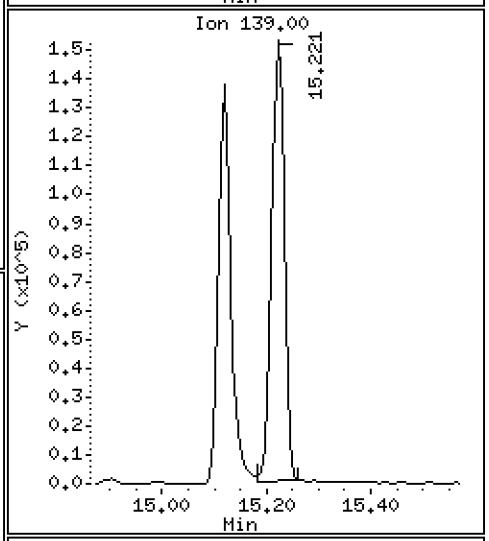
46 Dibenzofuran

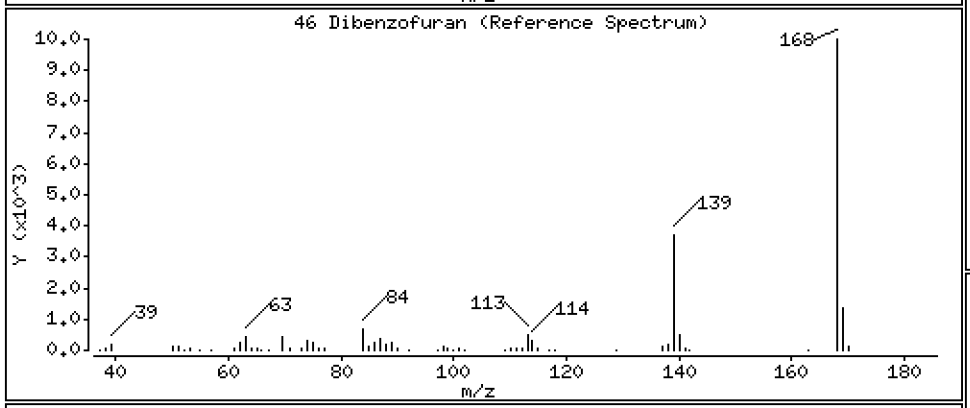
Concentration: 4.608 ug/mL

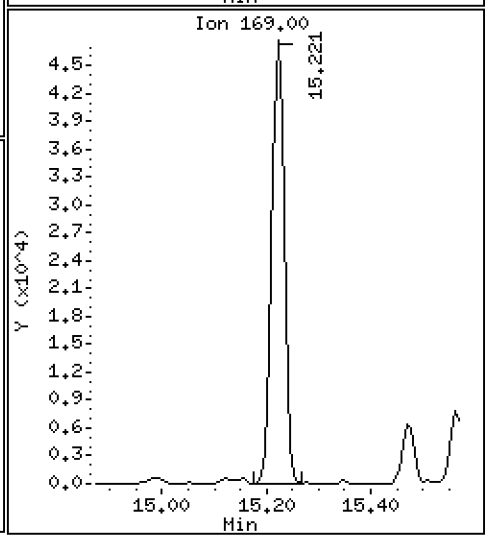


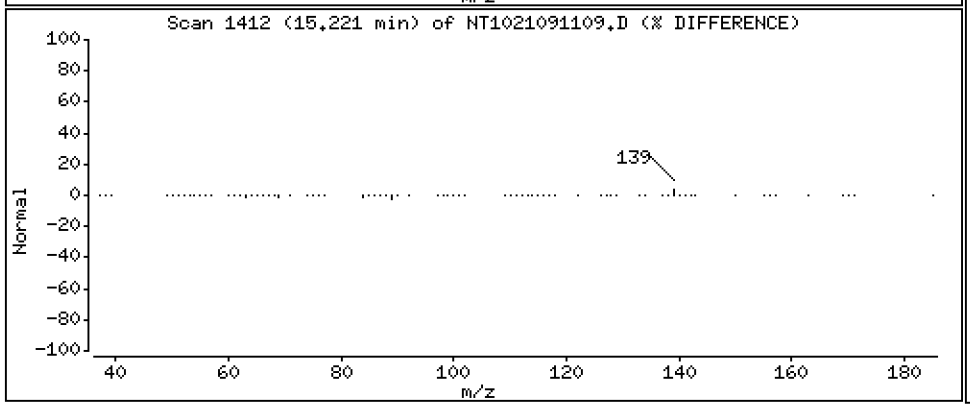












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

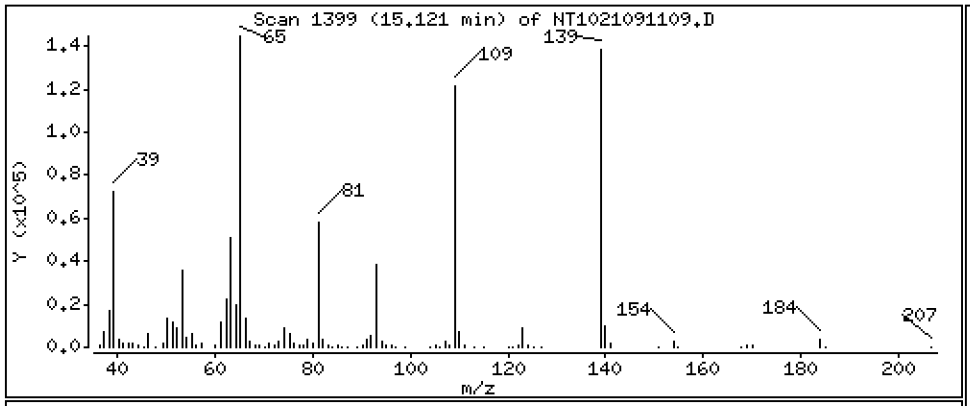
Operator: VTS

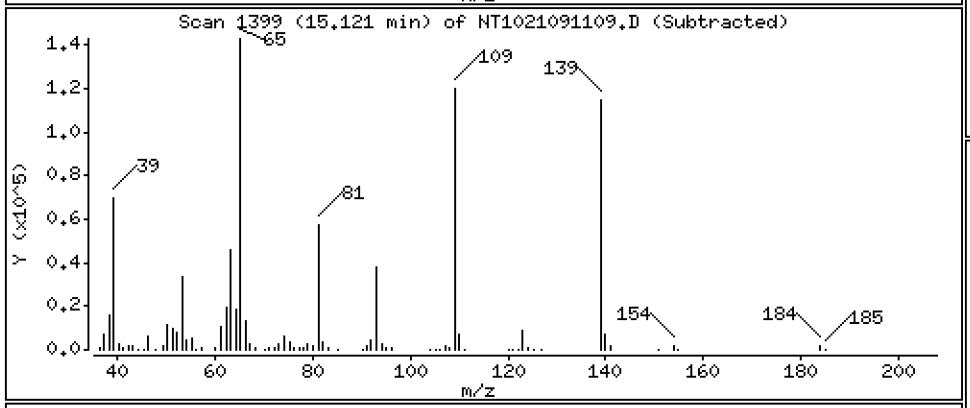
Column phase: ZB-5msi

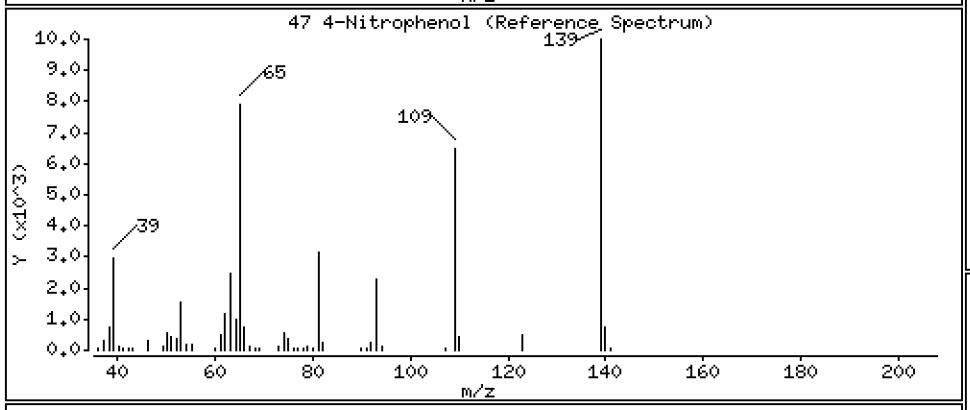
Column diameter: 0.25

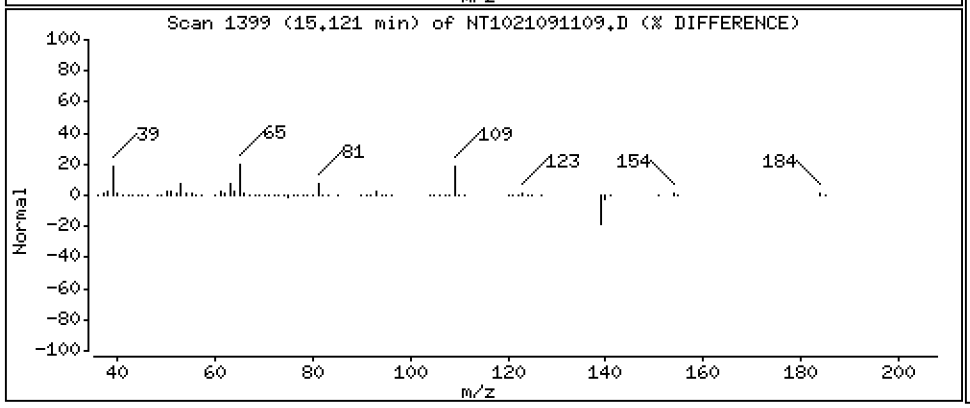
47 4-Nitrophenol

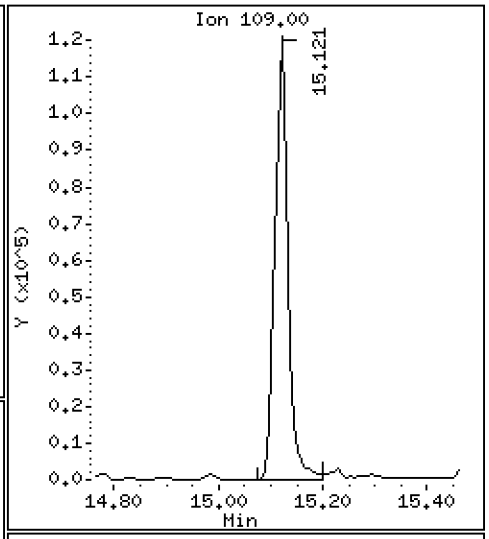
Concentration: 20.91 ug/mL

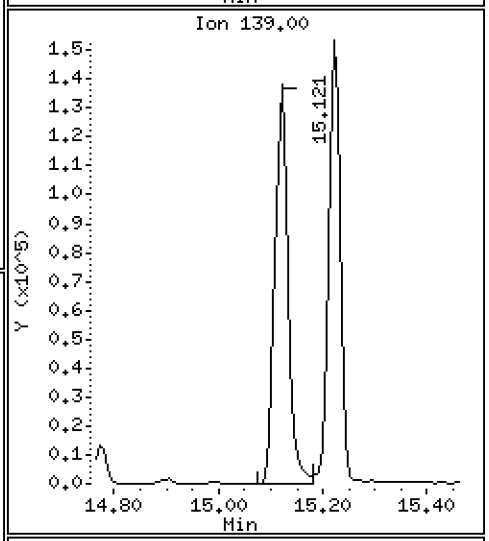


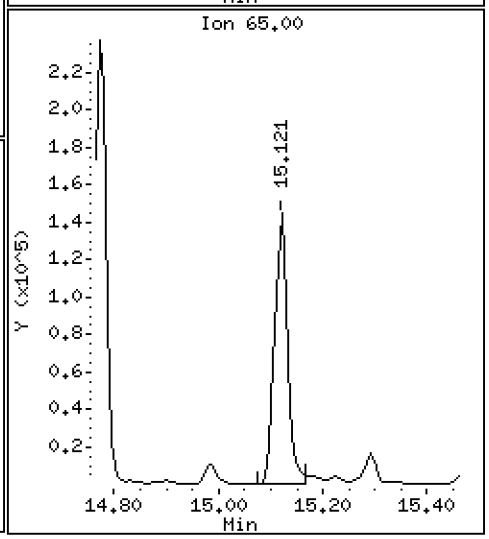












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

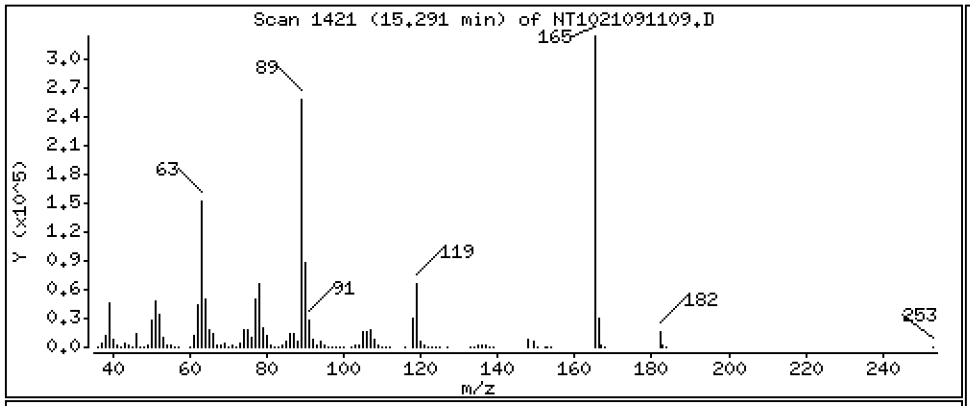
Operator: VTS

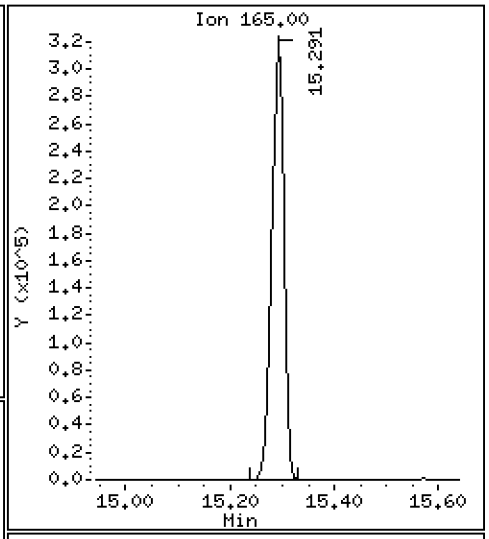
Column phase: ZB-5msi

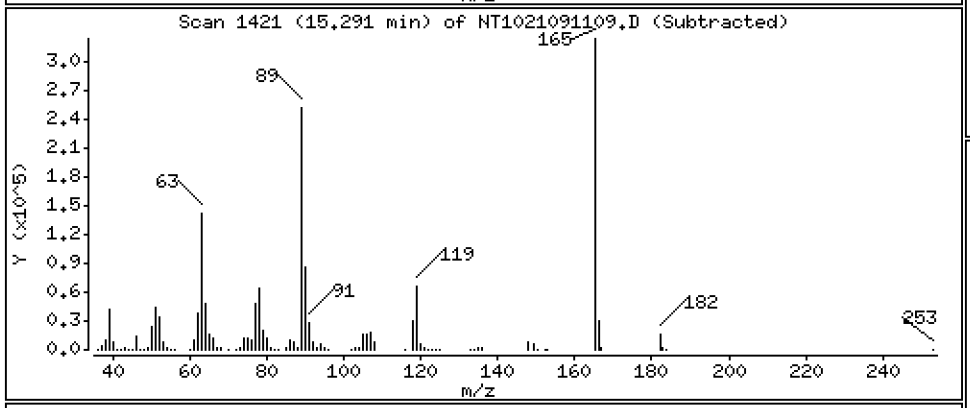
Column diameter: 0.25

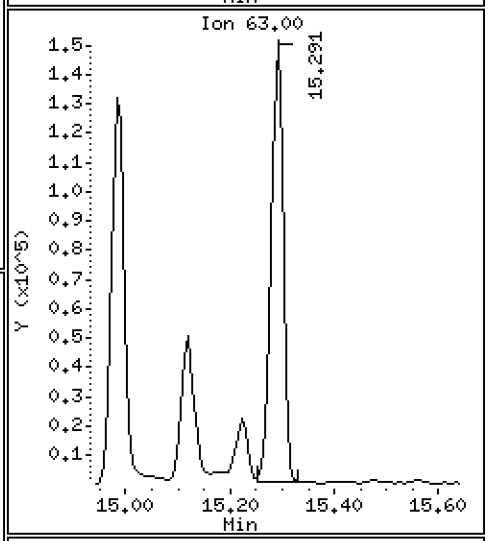
48 2,4-Dinitrotoluene

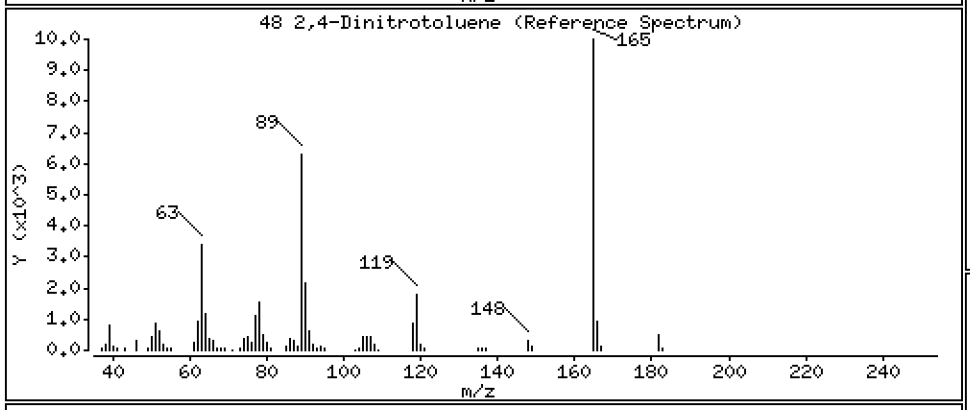
Concentration: 17.71 ug/mL

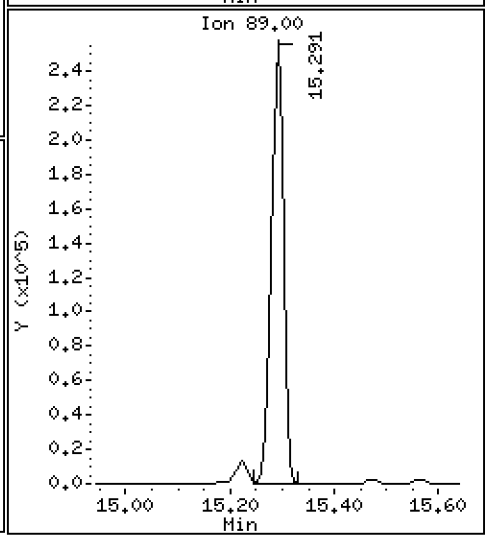


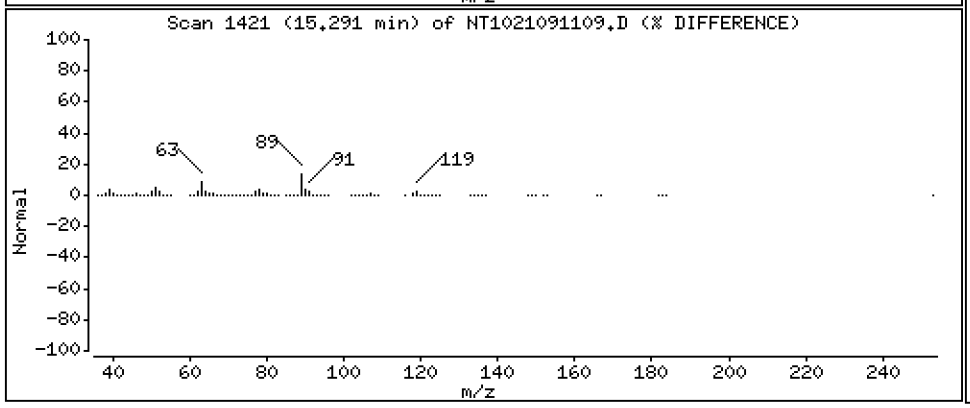












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

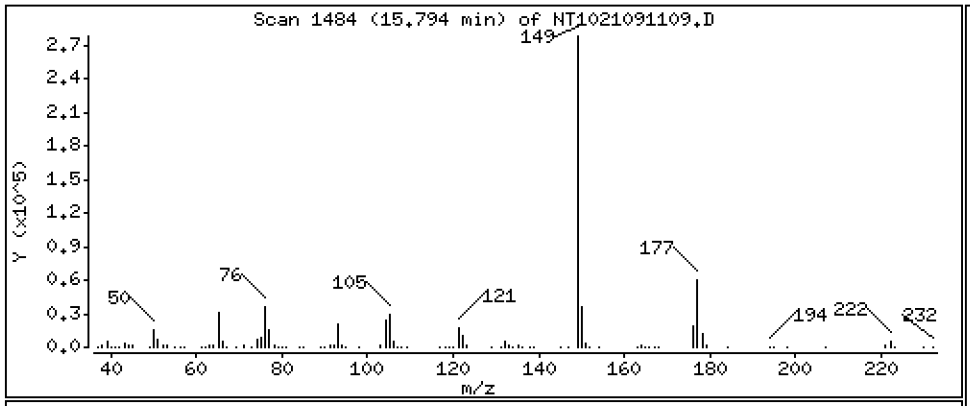
Operator: VTS

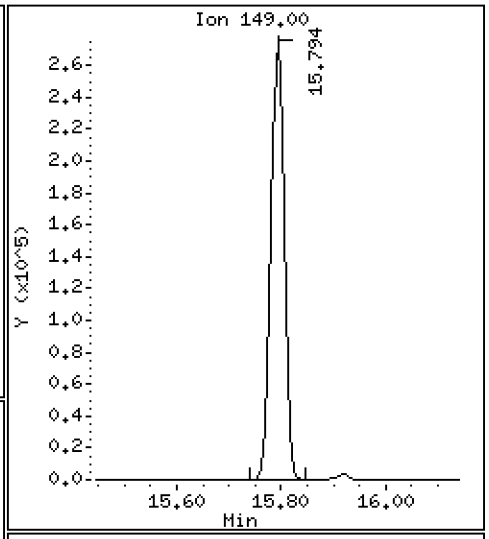
Column phase: ZB-5msi

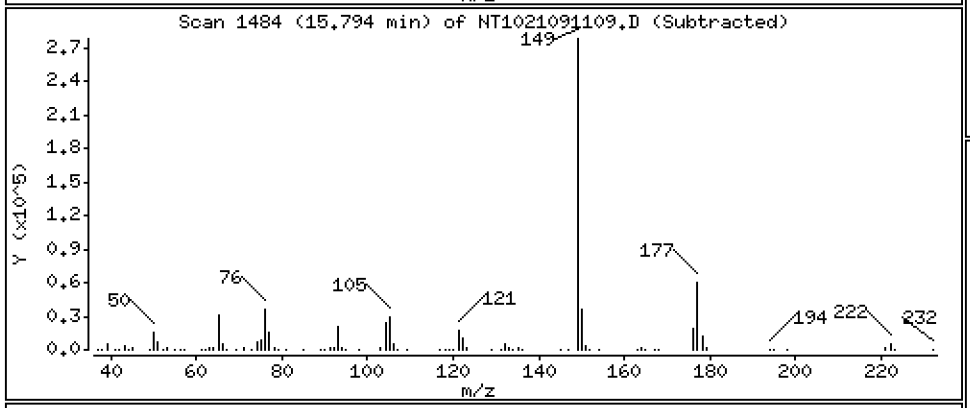
Column diameter: 0.25

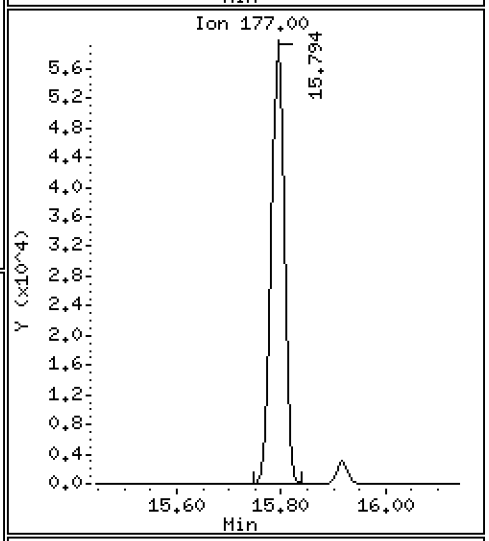
50 Diethylphthalate

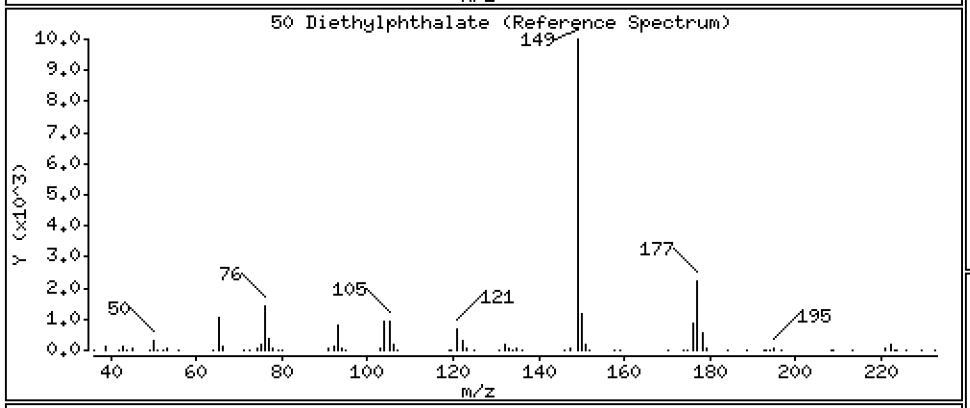
Concentration: 5.797 ug/mL

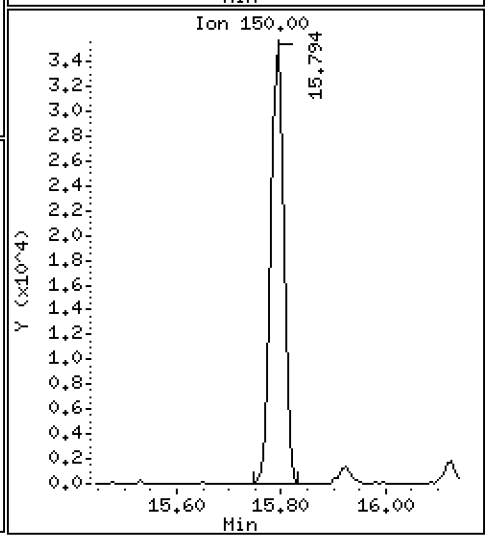


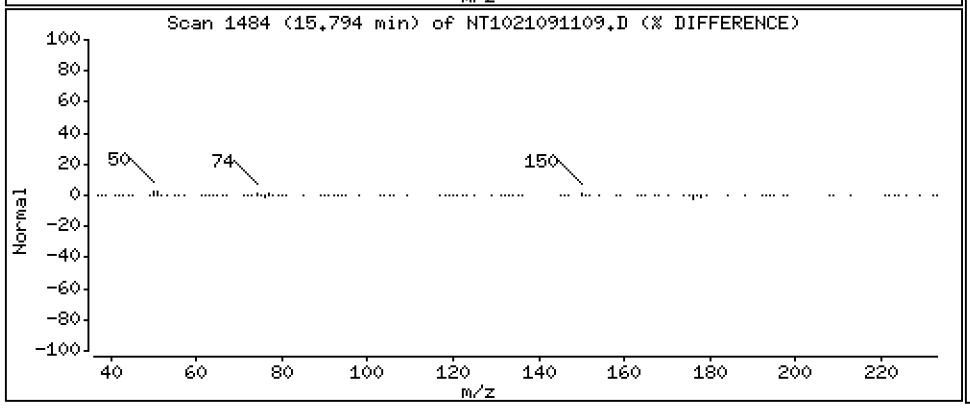












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

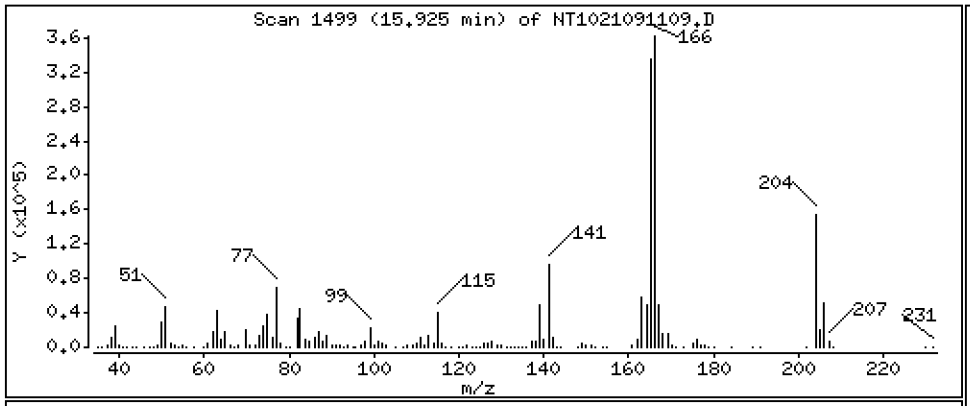
Operator: VTS

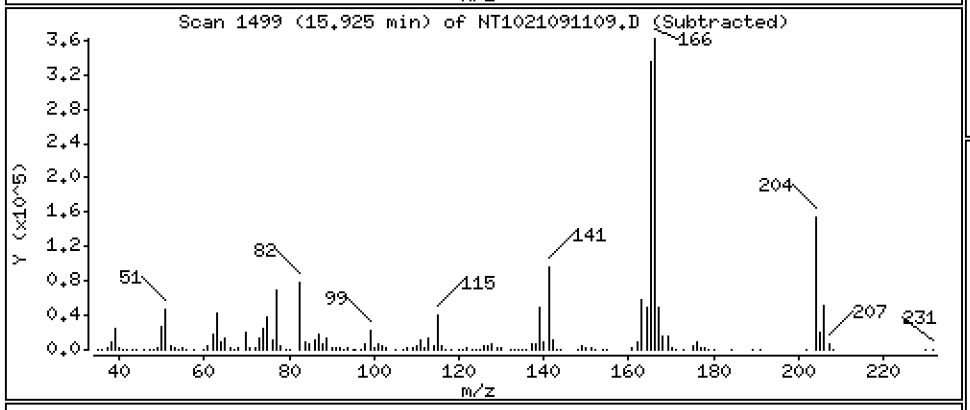
Column phase: ZB-5msi

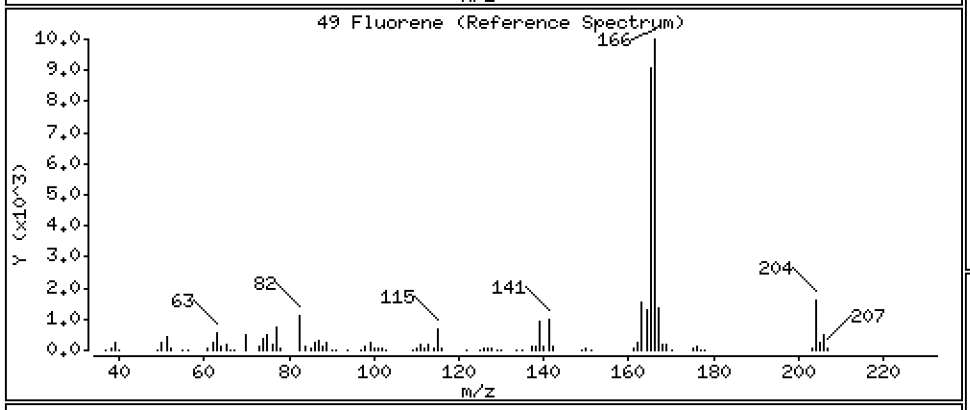
Column diameter: 0.25

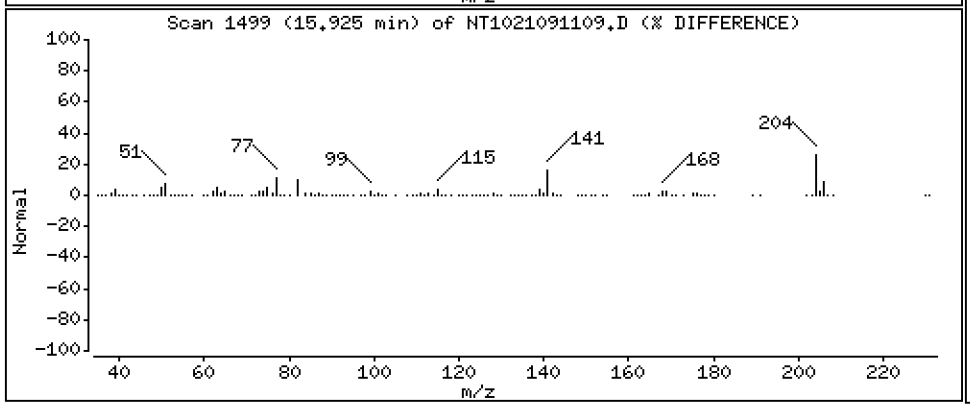
49 Fluorene

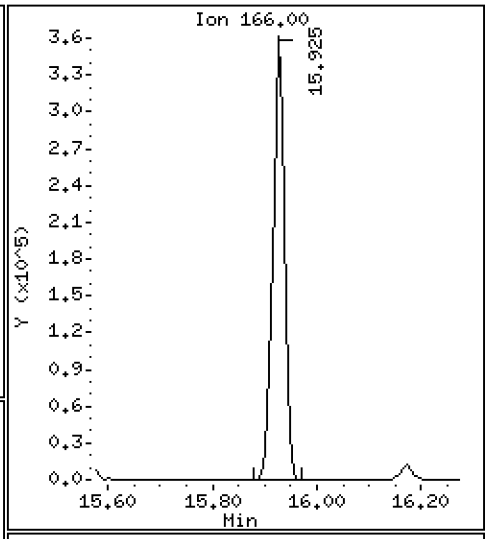
Concentration: 4.822 ug/mL

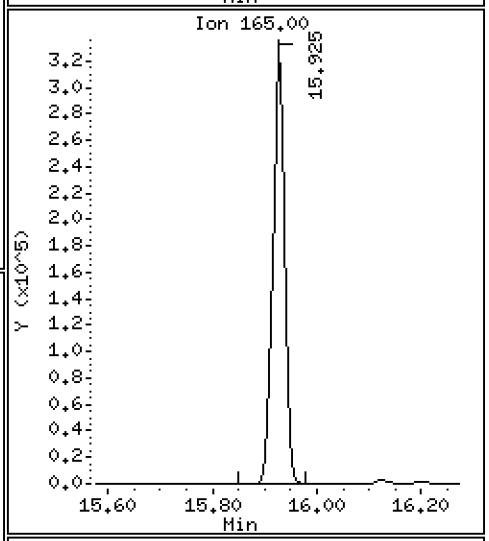


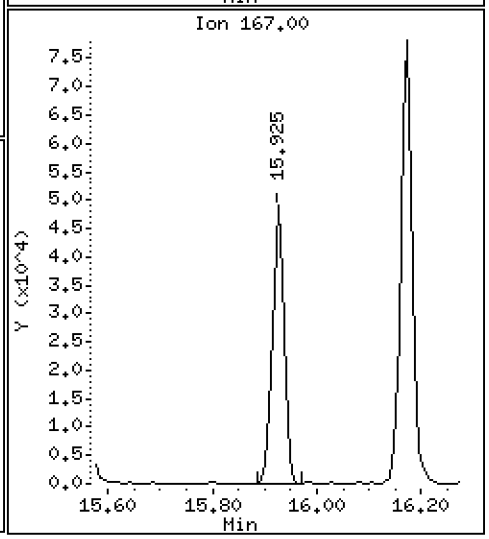












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

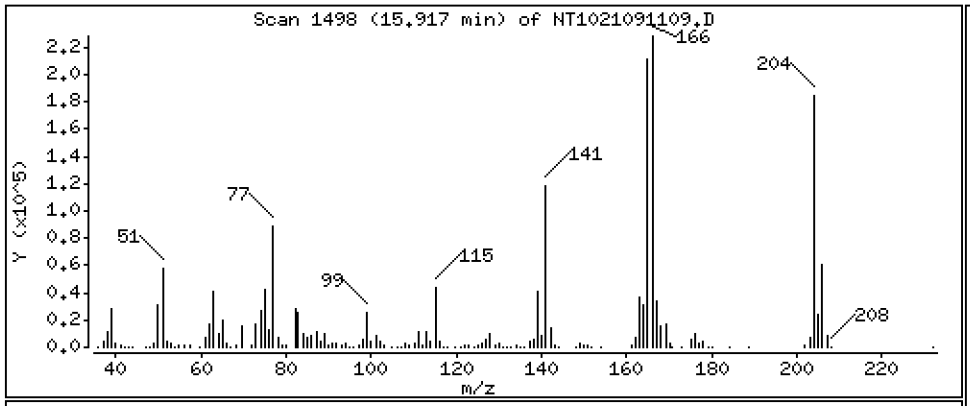
Operator: VTS

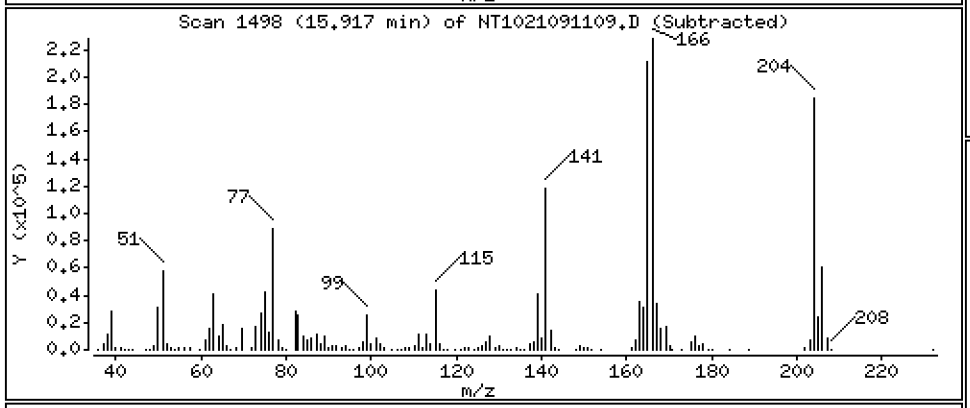
Column phase: ZB-5msi

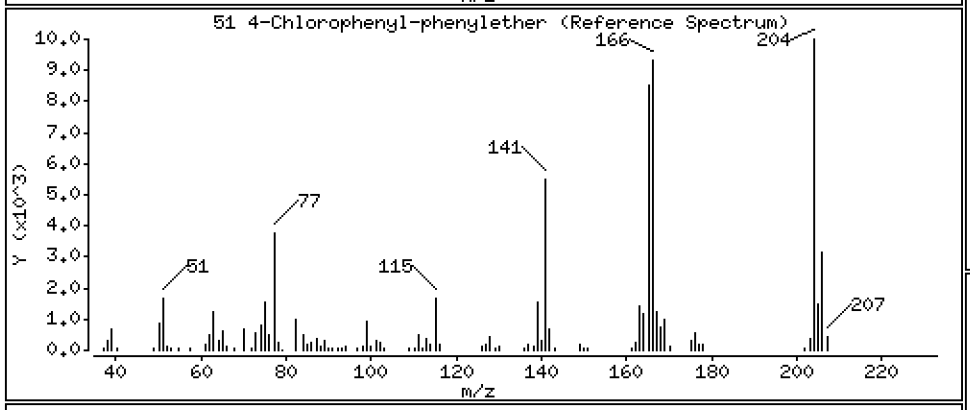
Column diameter: 0.25

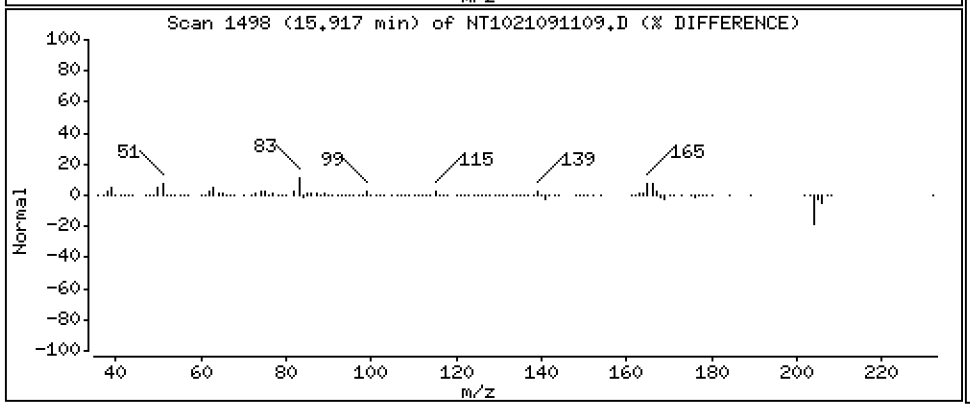
51 4-Chlorophenyl-phenylether

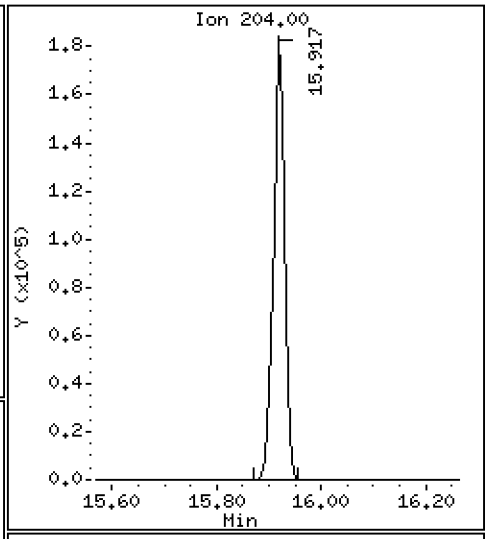
Concentration: 5.278 ug/mL

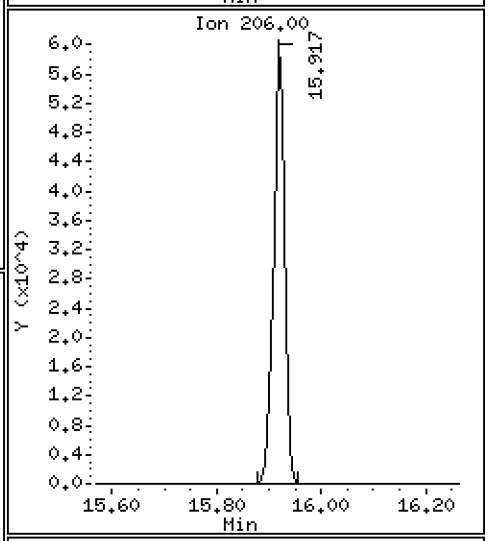


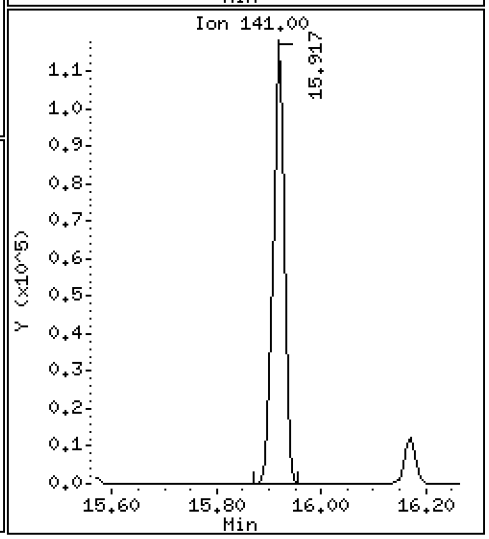












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

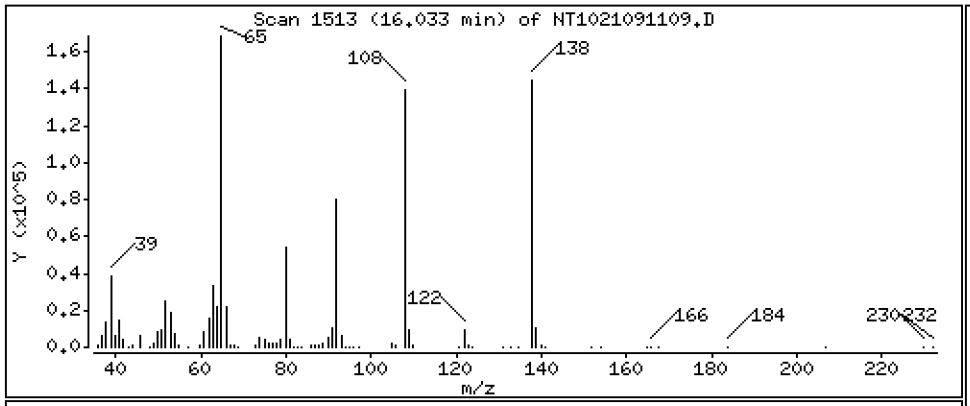
Operator: VTS

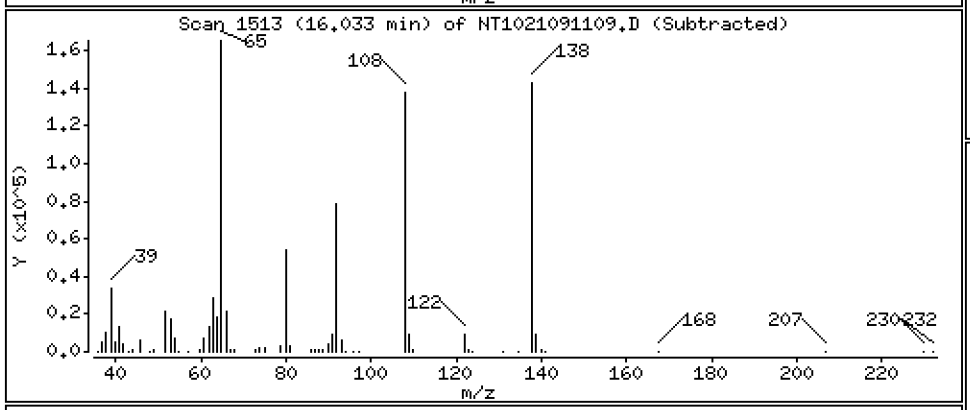
Column phase: ZB-5msi

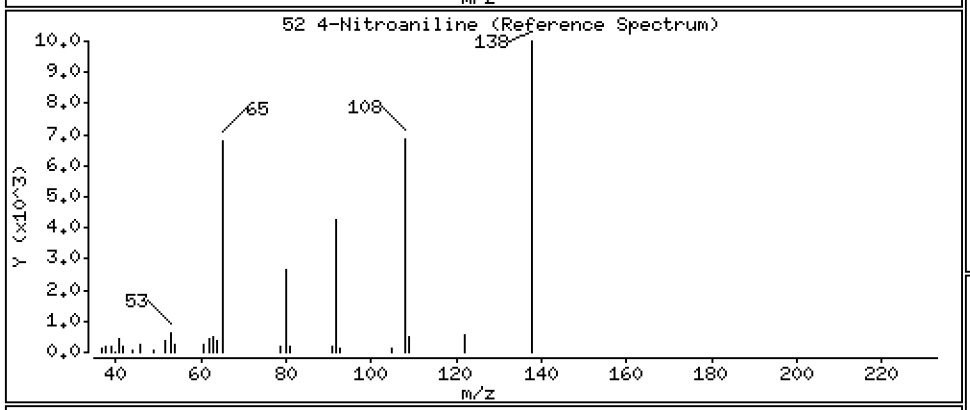
Column diameter: 0.25

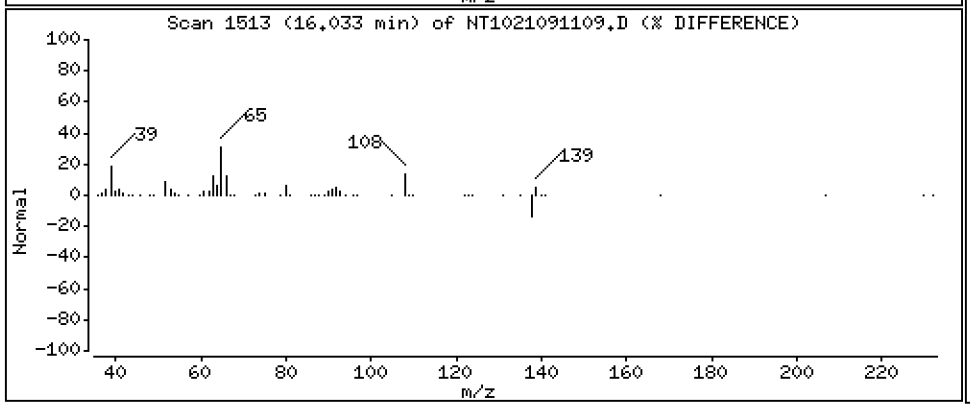
52 4-Nitroaniline

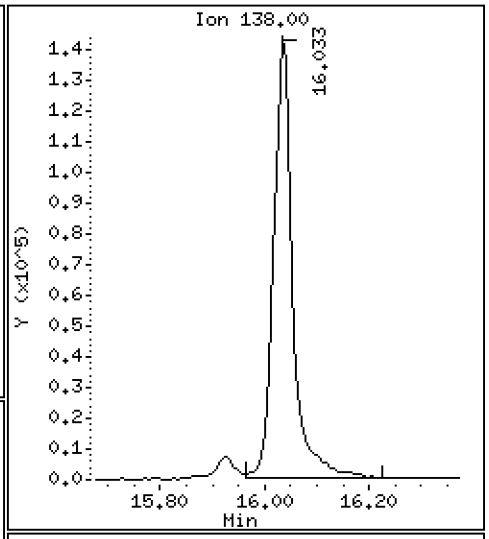
Concentration: 12.92 ug/mL

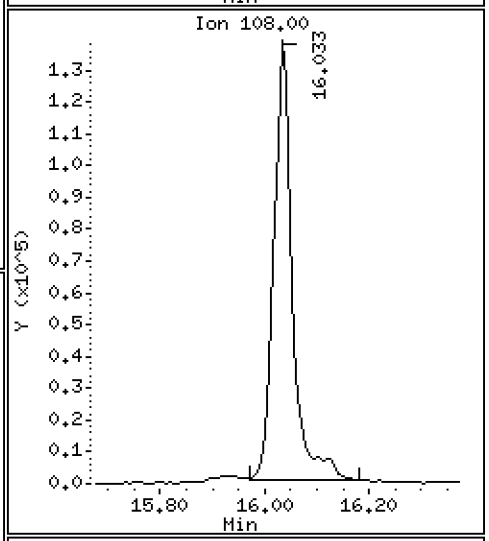


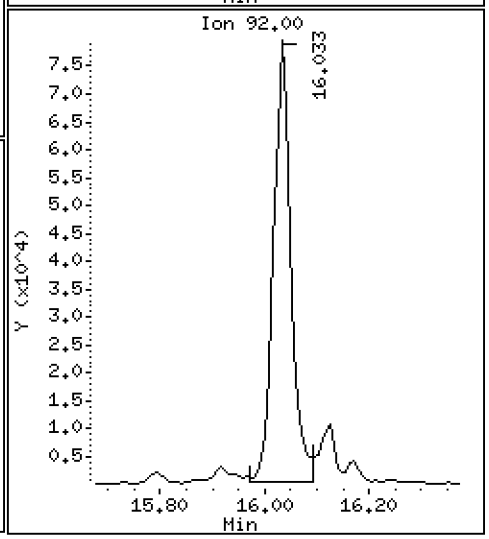












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

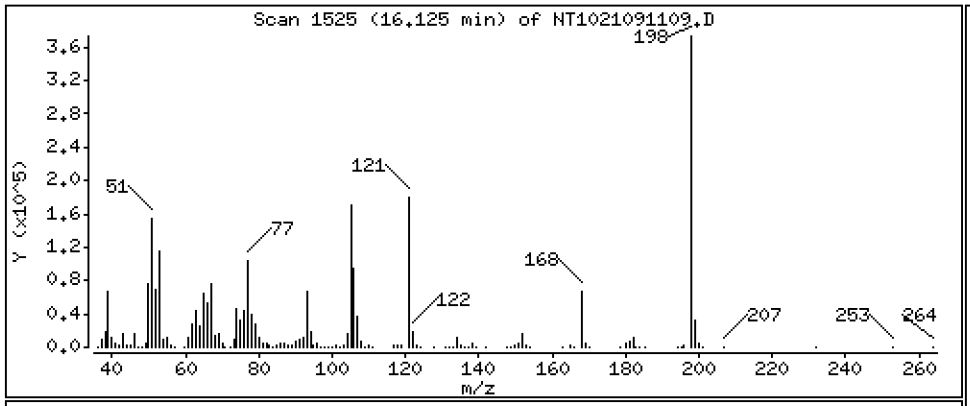
Operator: VTS

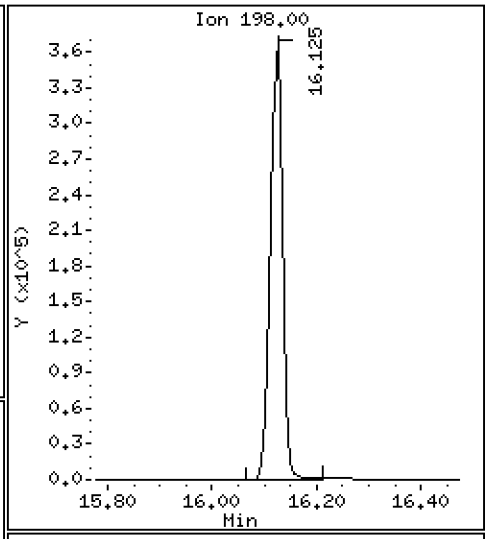
Column phase: ZB-5msi

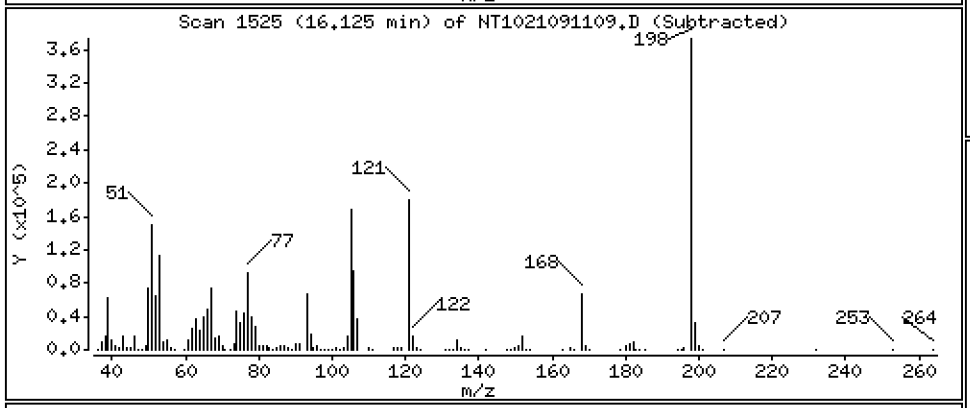
Column diameter: 0.25

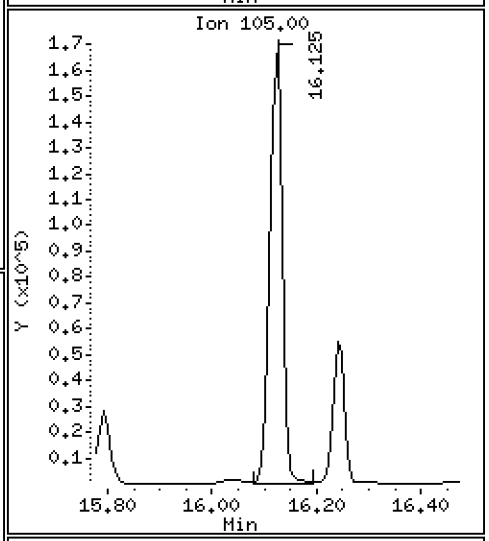
53 4,6-Dinitro-2-methylphenol

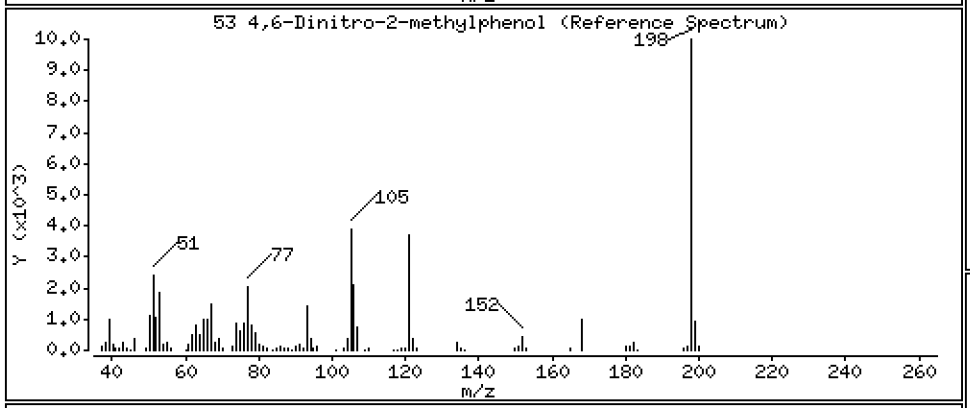
Concentration: 32.00 ug/mL

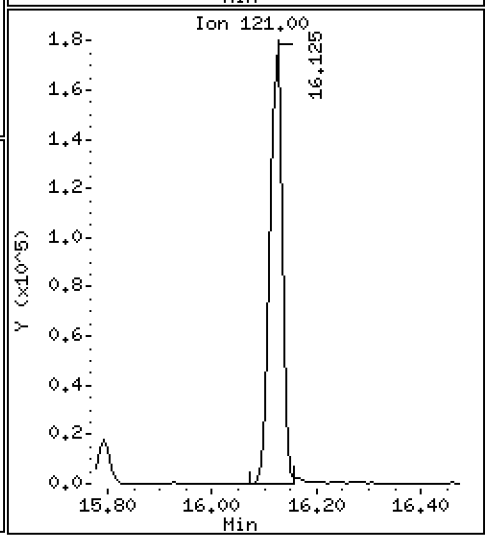


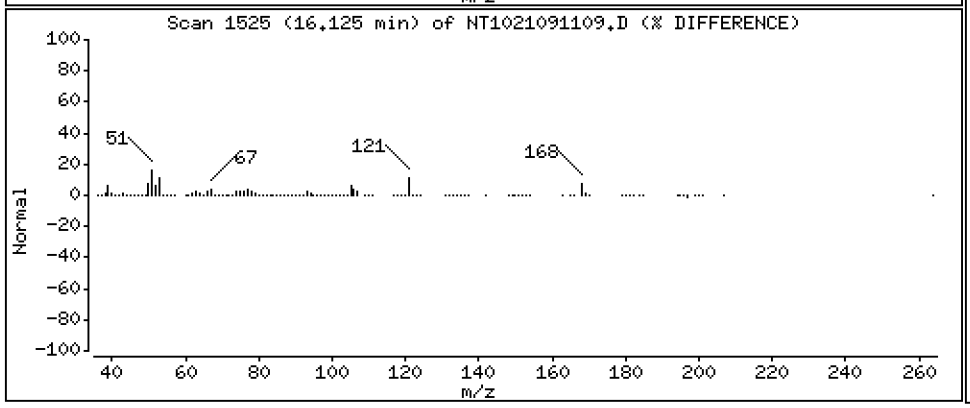












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

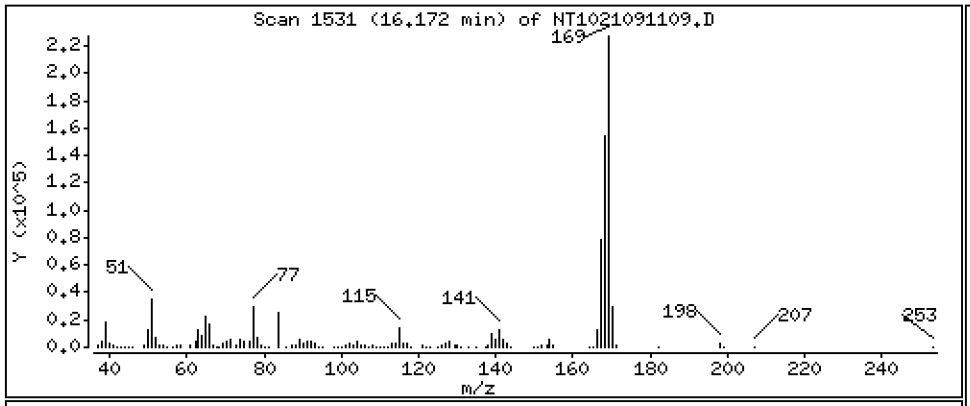
Operator: VTS

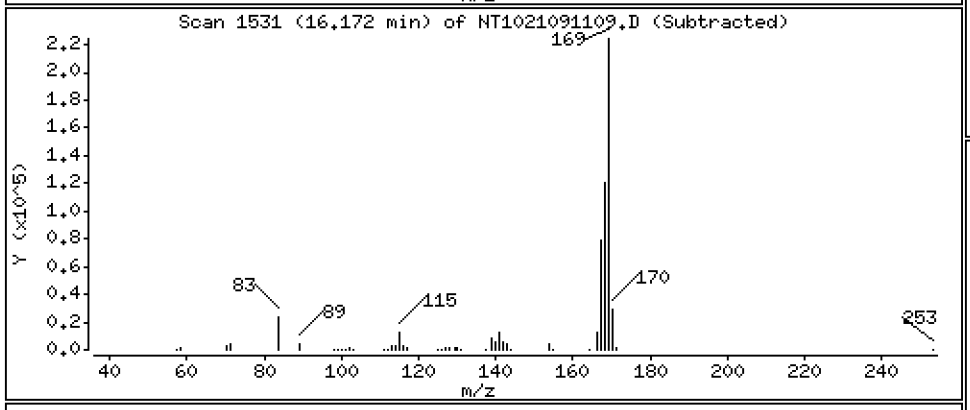
Column phase: ZB-5msi

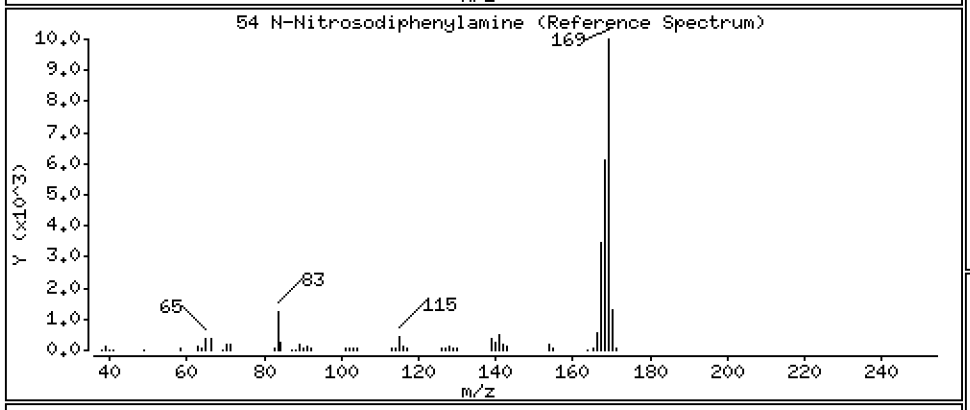
Column diameter: 0.25

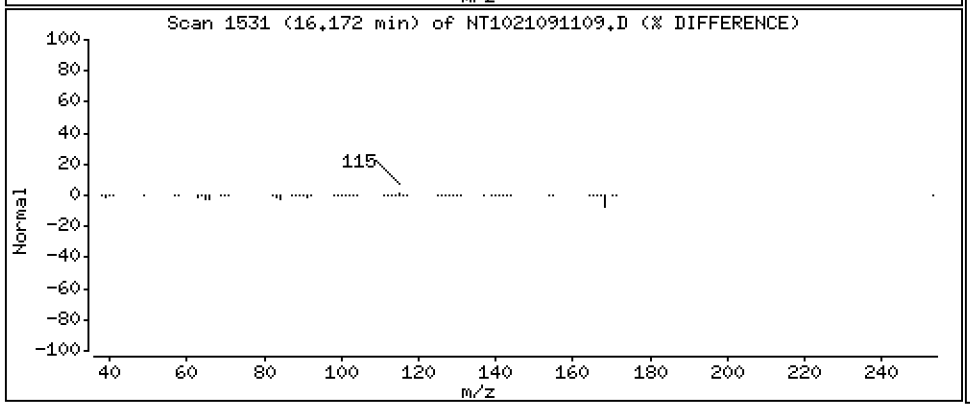
54 N-Nitrosodiphenylamine

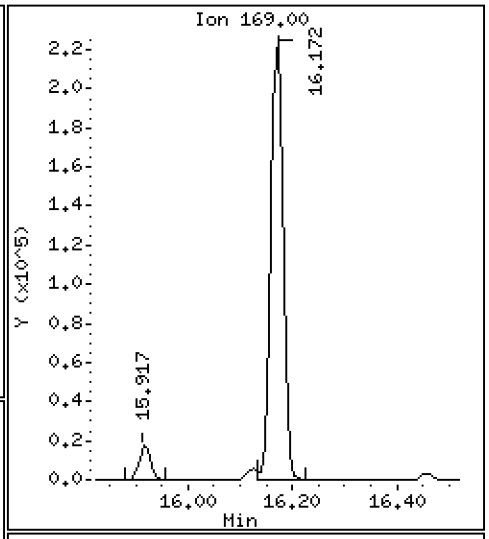
Concentration: 5.469 ug/mL

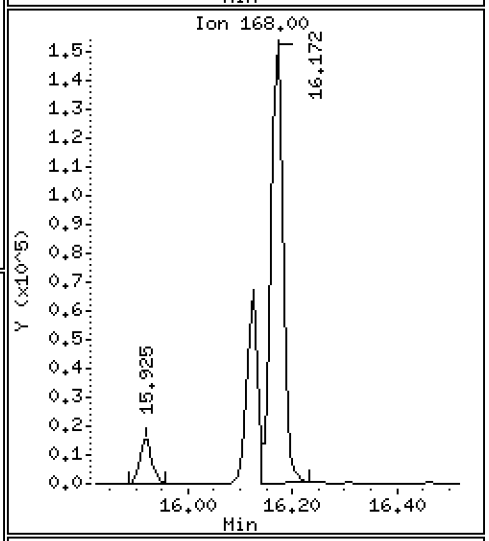


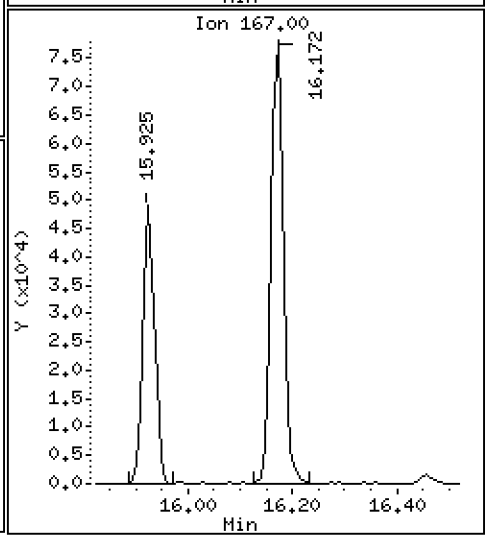












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

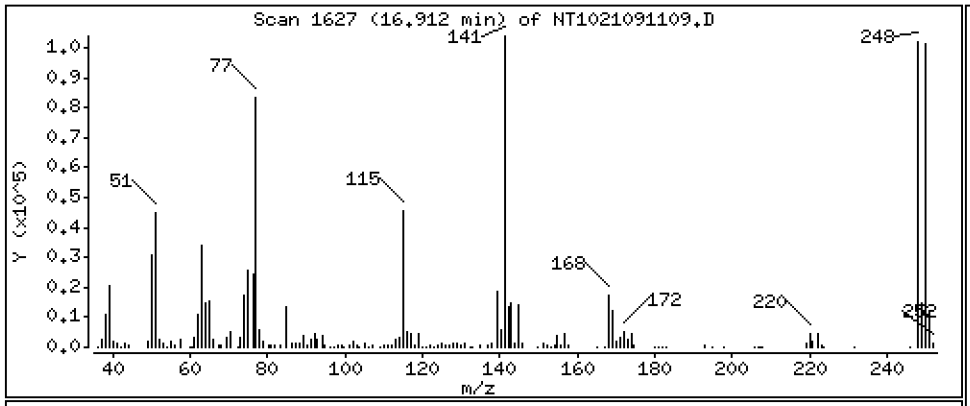
Operator: VTS

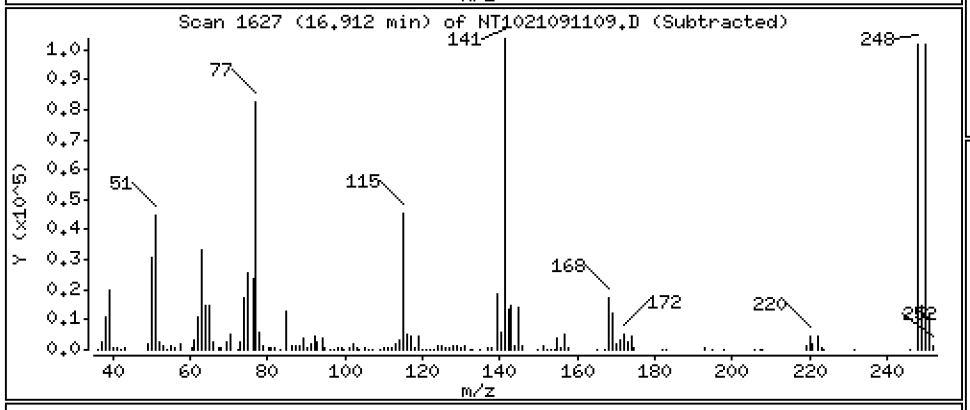
Column phase: ZB-5msi

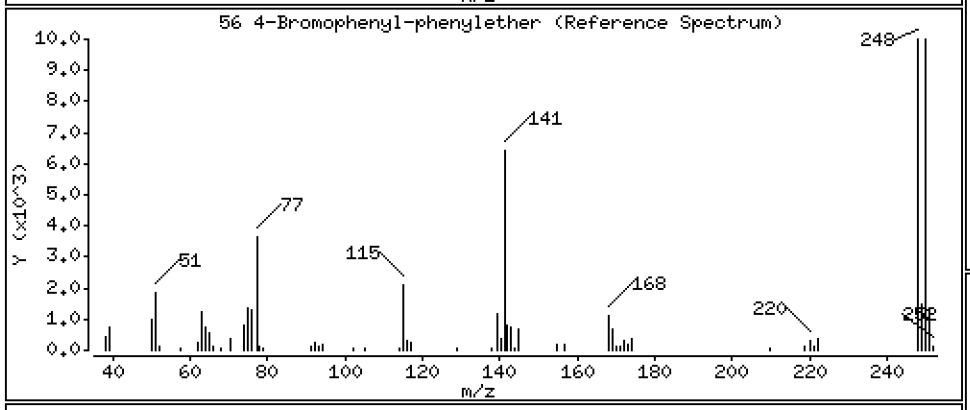
Column diameter: 0.25

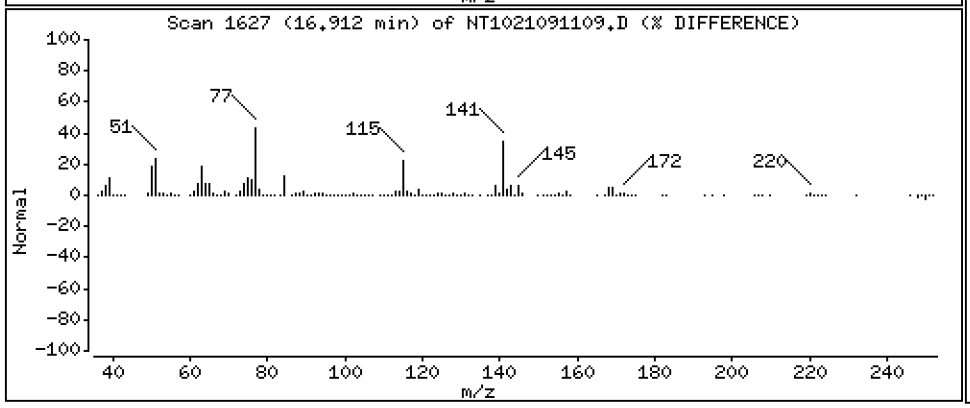
56 4-Bromophenyl-phenylether

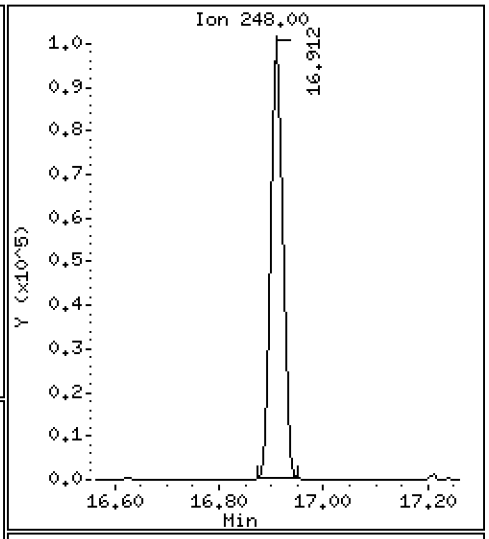
Concentration: 6.208 ug/mL

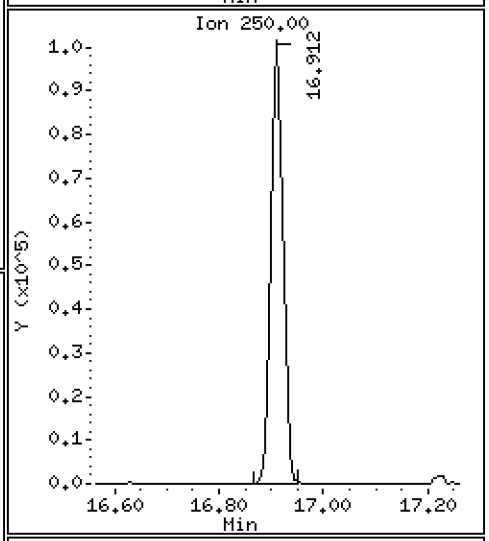


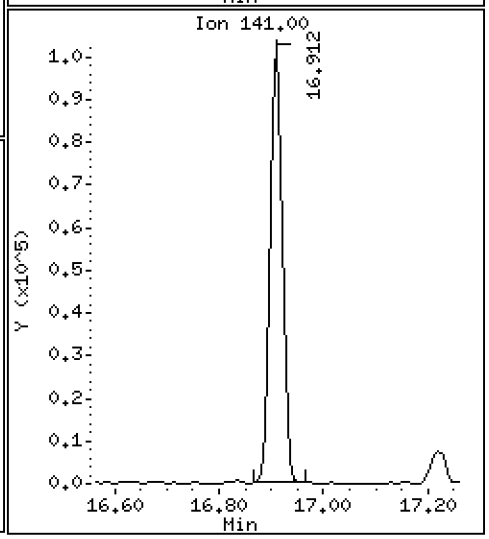












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

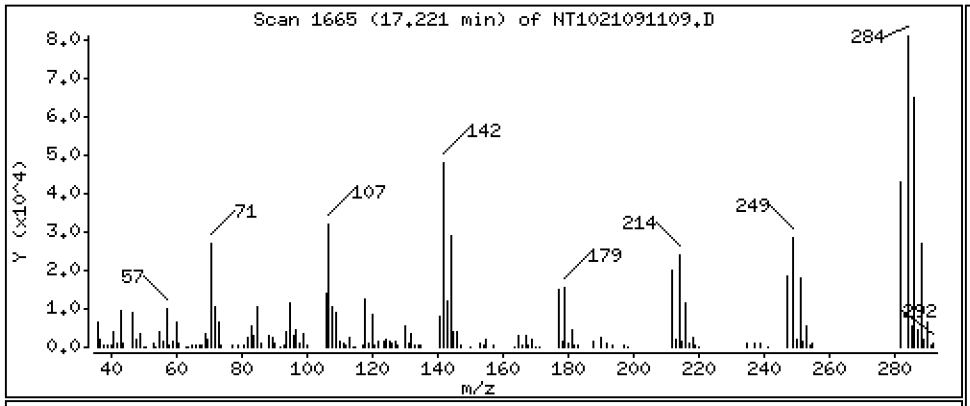
Operator: VTS

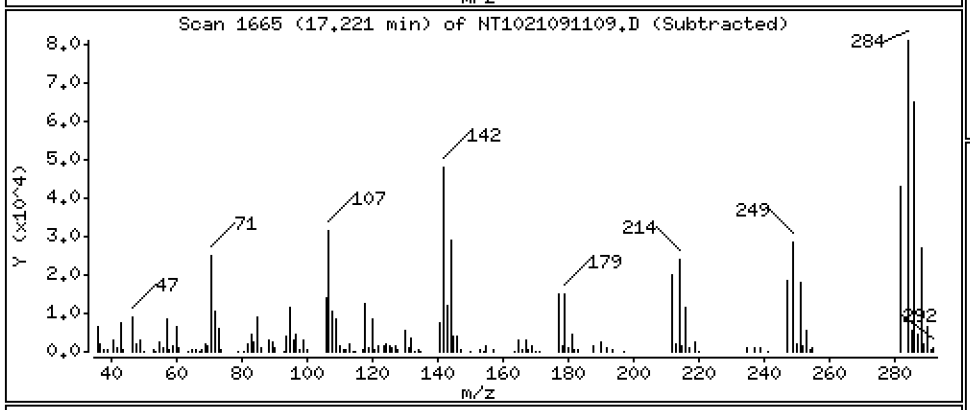
Column phase: ZB-5msi

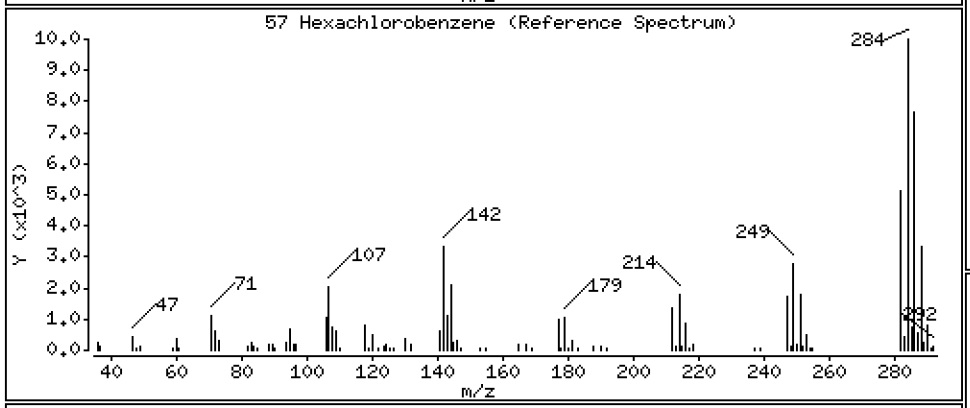
Column diameter: 0.25

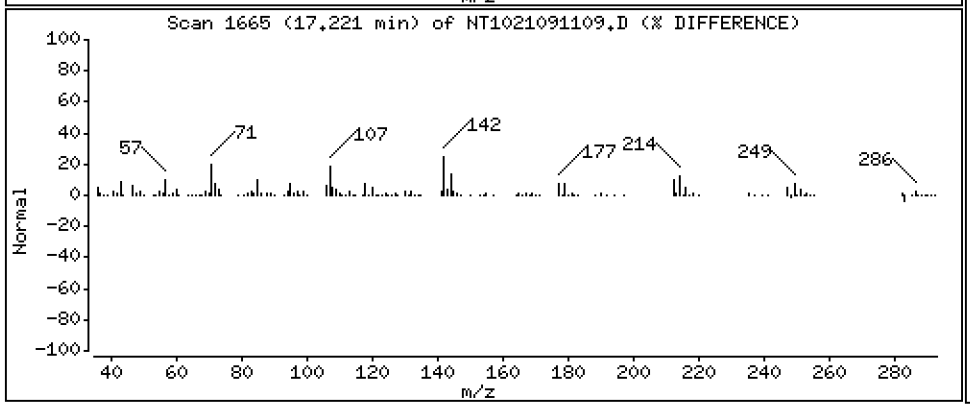
57 Hexachlorobenzene

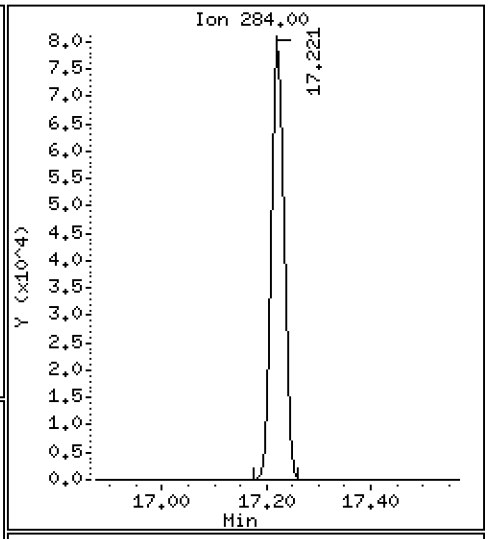
Concentration: 5.494 ug/mL

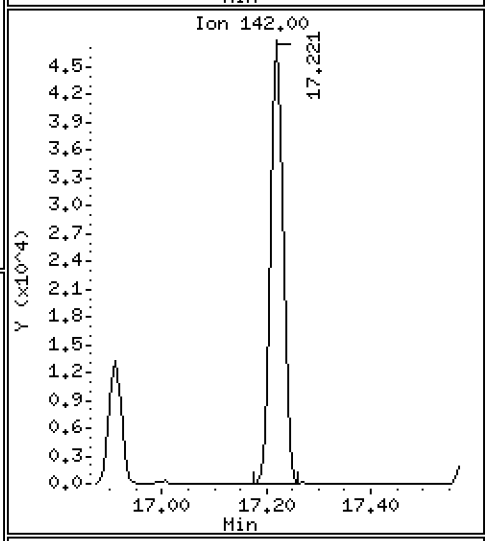


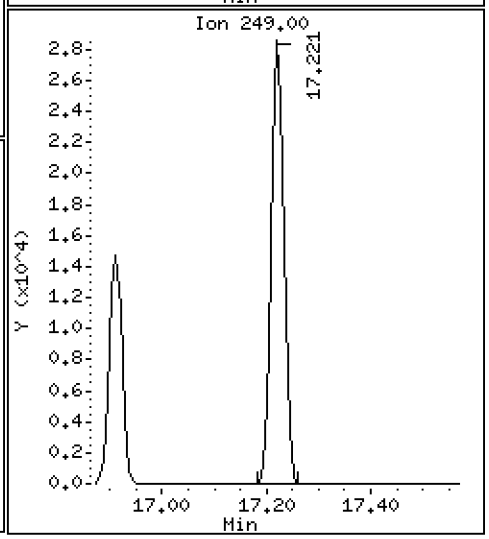












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

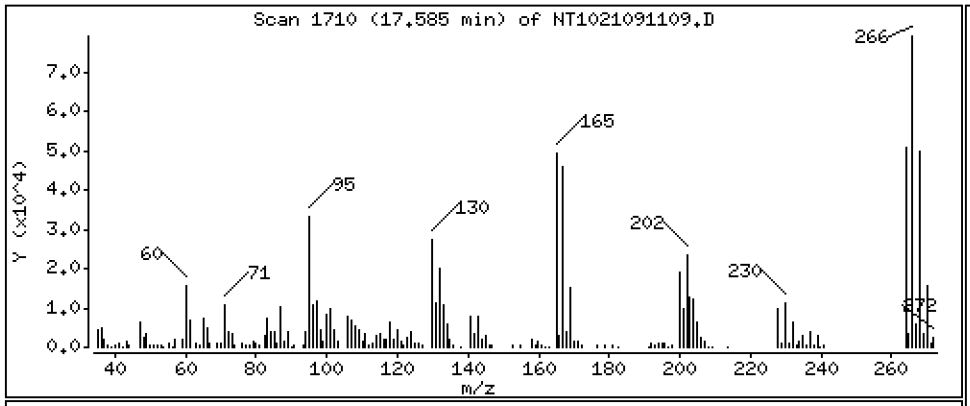
Operator: VTS

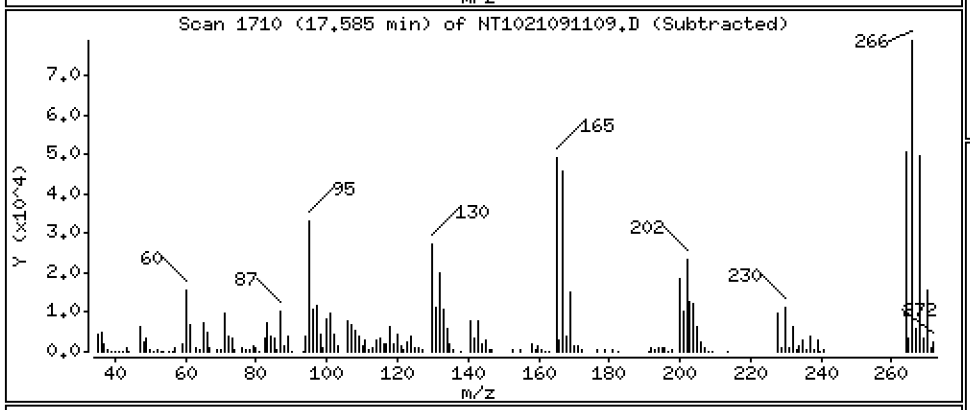
Column phase: ZB-5msi

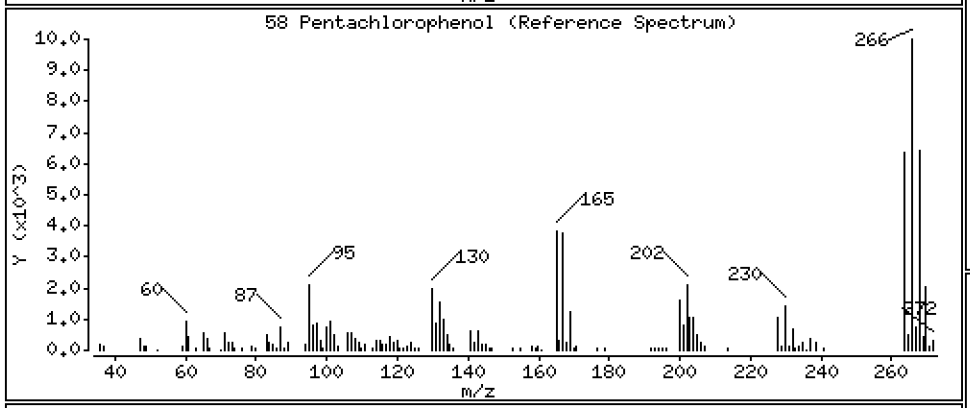
Column diameter: 0.25

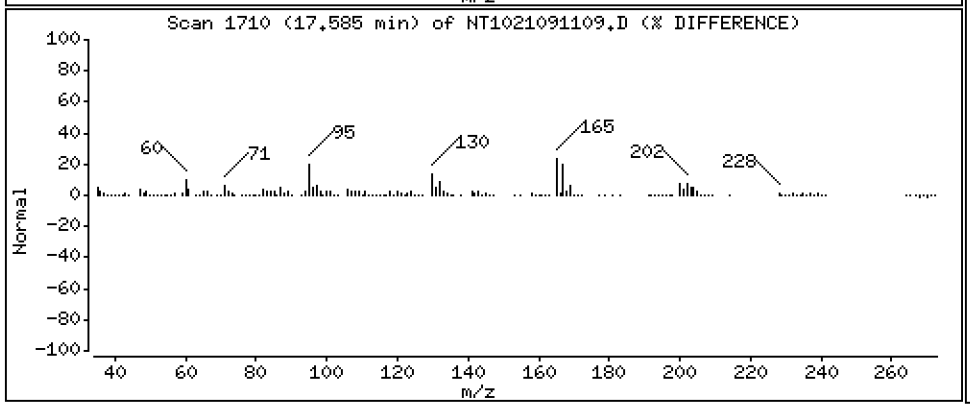
58 Pentachlorophenol

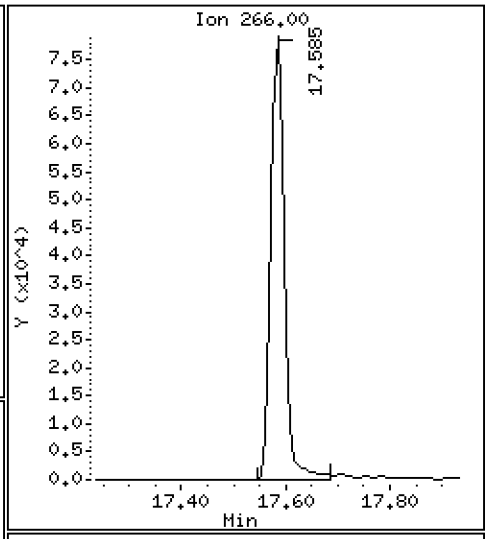
Concentration: 14.77 ug/mL

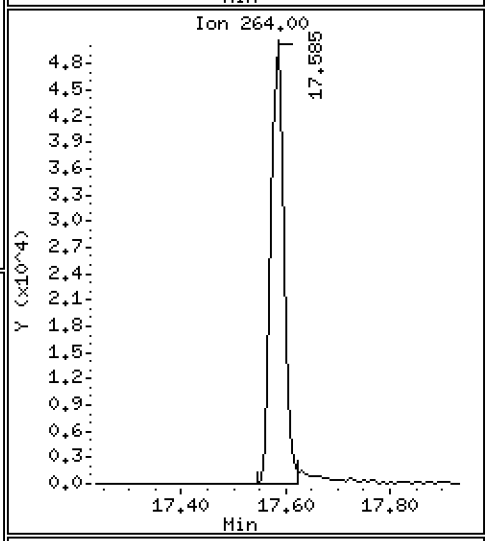


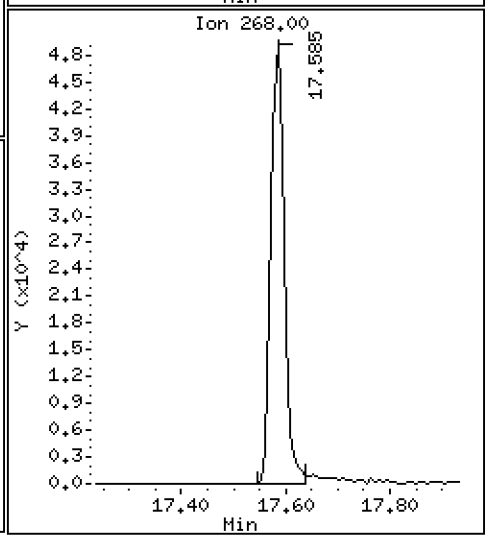












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

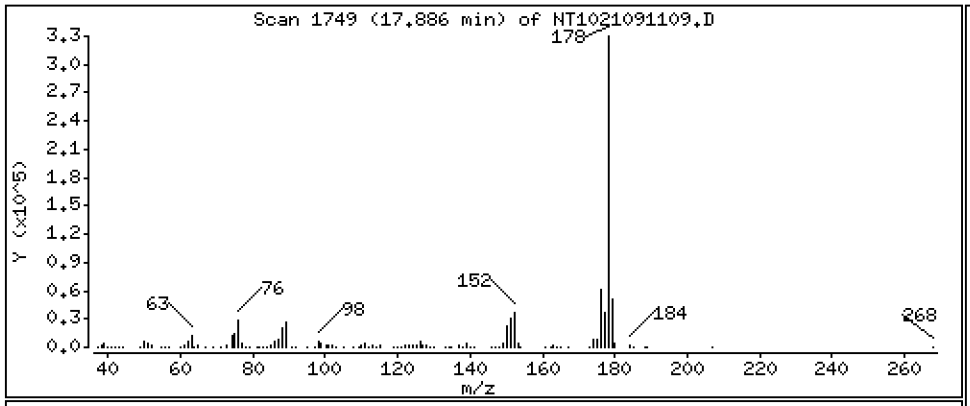
Operator: VTS

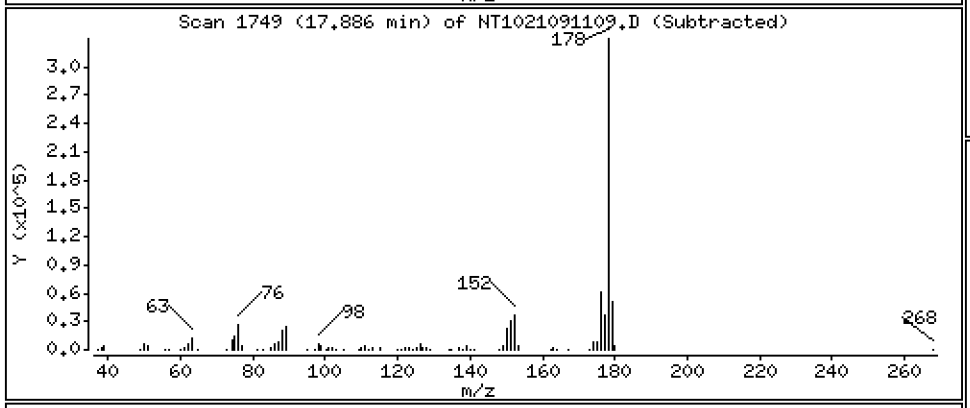
Column phase: ZB-5msi

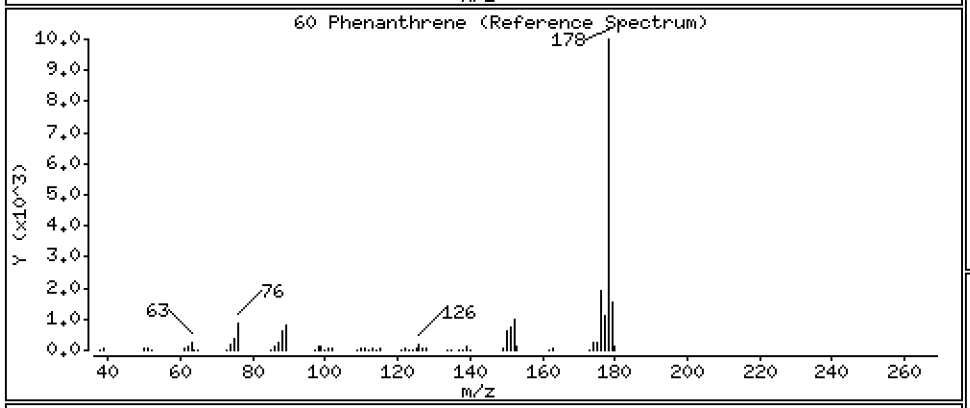
Column diameter: 0.25

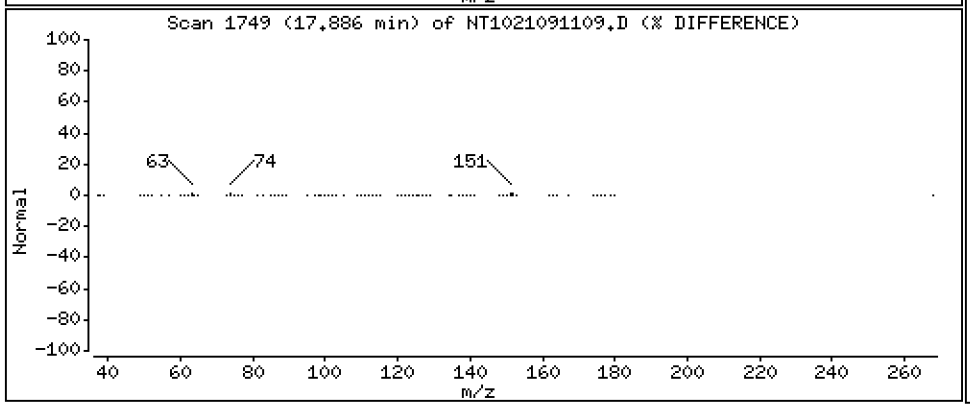
60 Phenanthrene

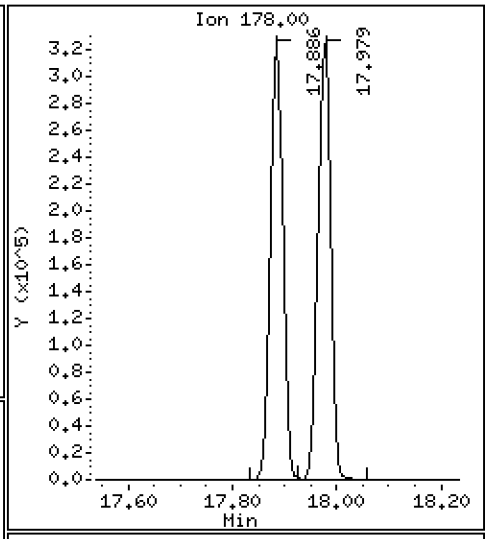
Concentration: 4.979 ug/mL

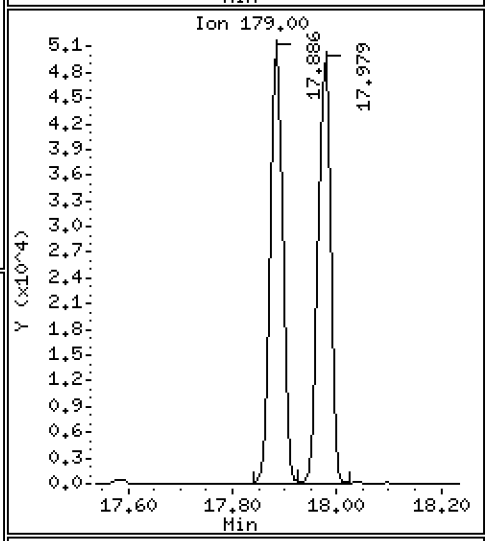


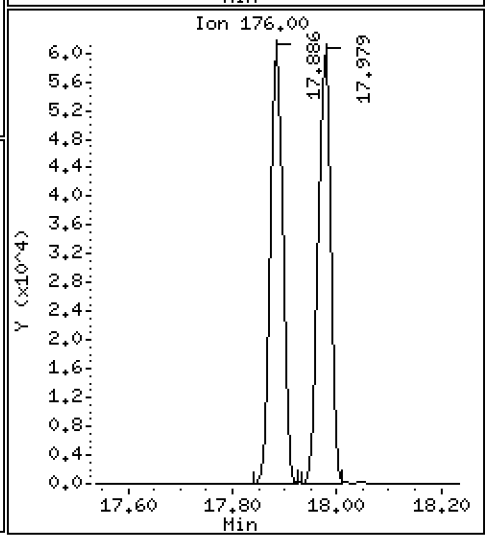












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

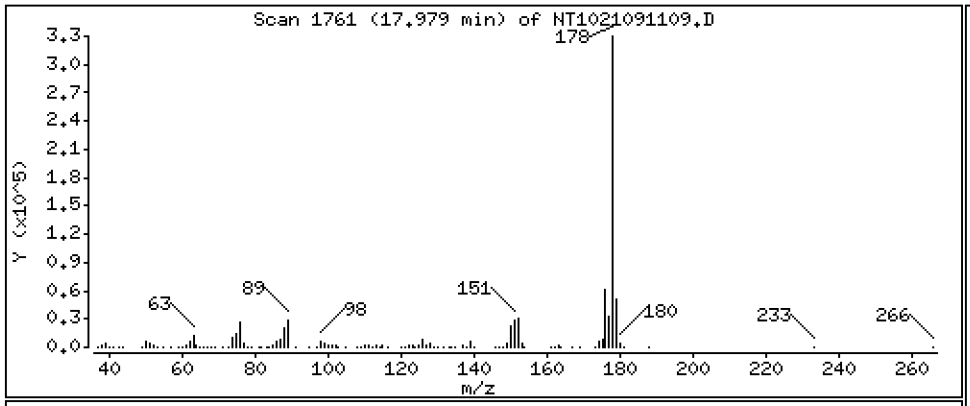
Operator: VTS

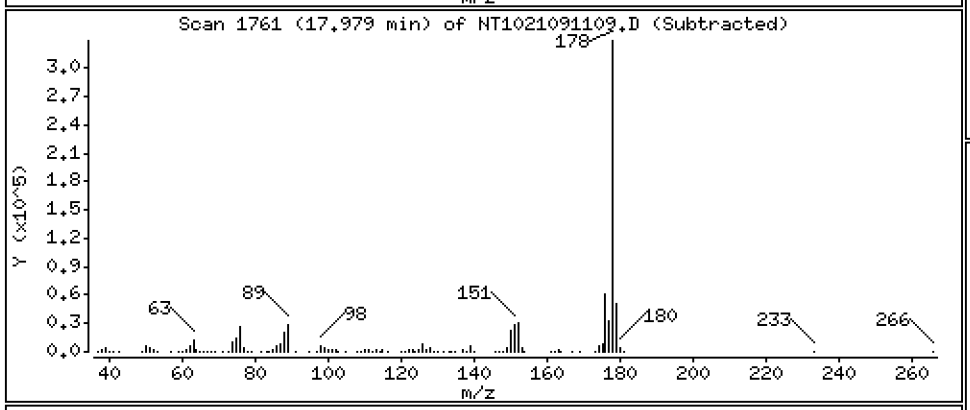
Column phase: ZB-5msi

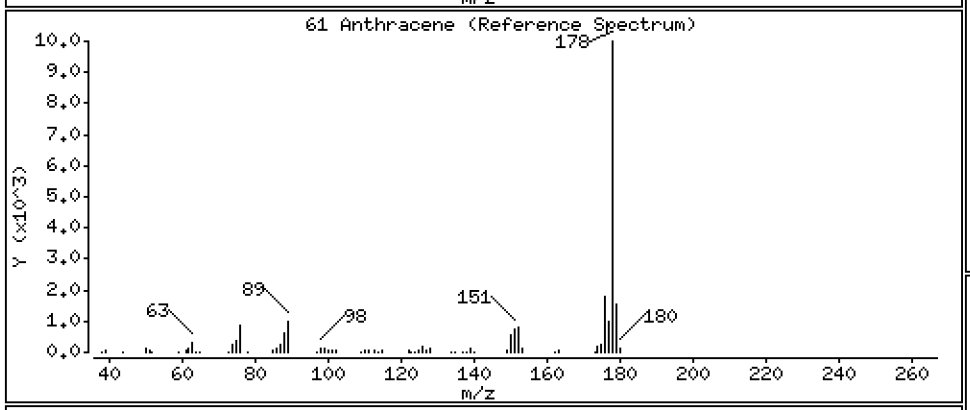
Column diameter: 0.25

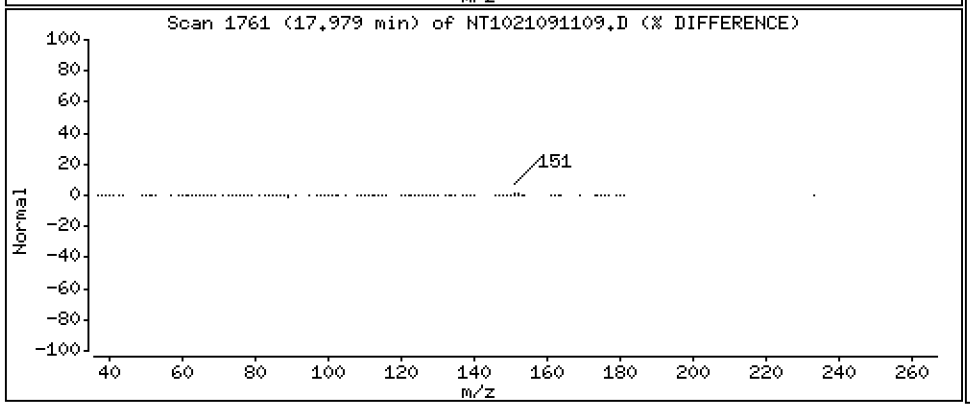
61 Anthracene

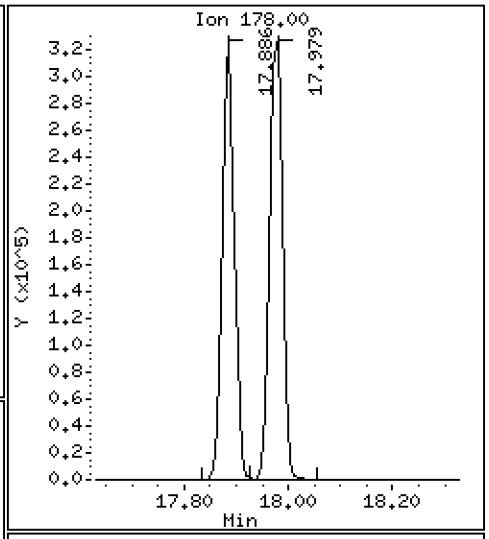
Concentration: 4.813 ug/mL

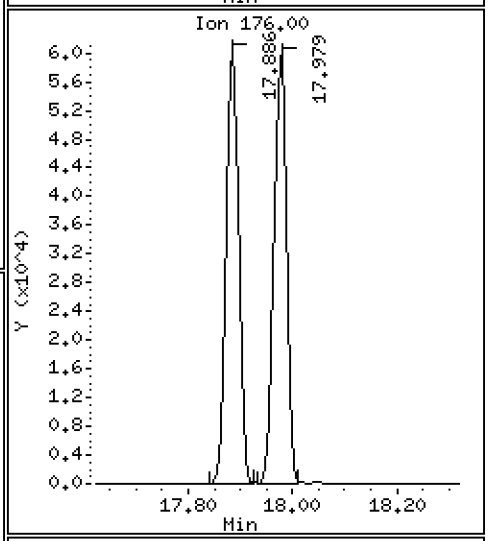


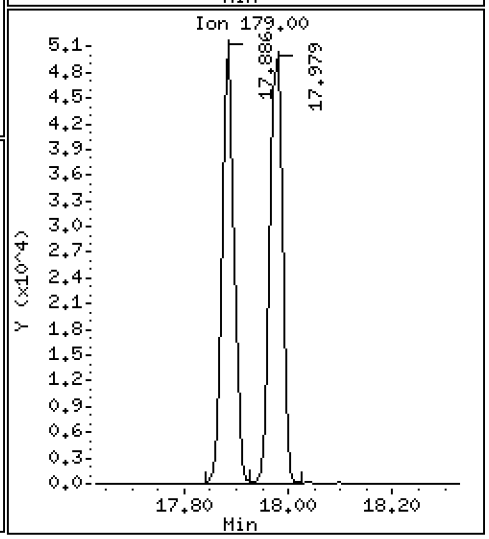












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

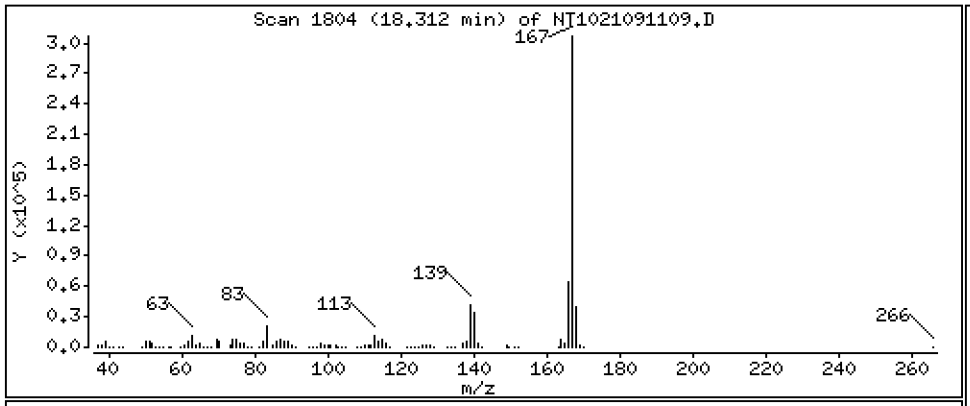
Operator: VTS

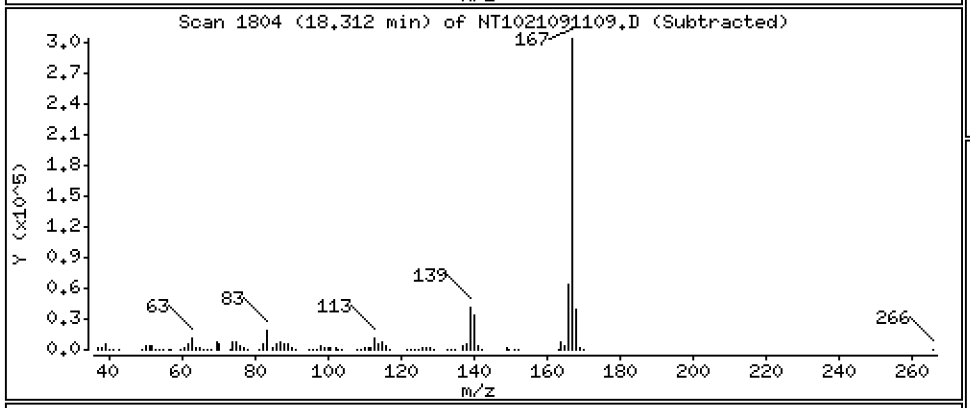
Column phase: ZB-5msi

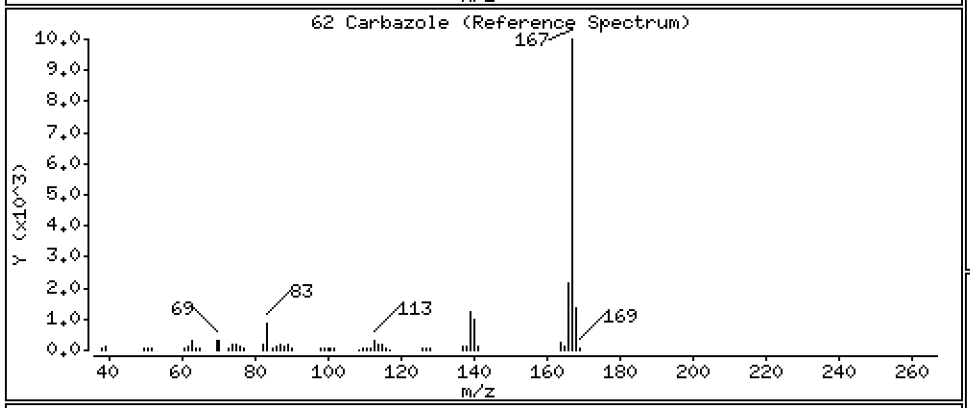
Column diameter: 0.25

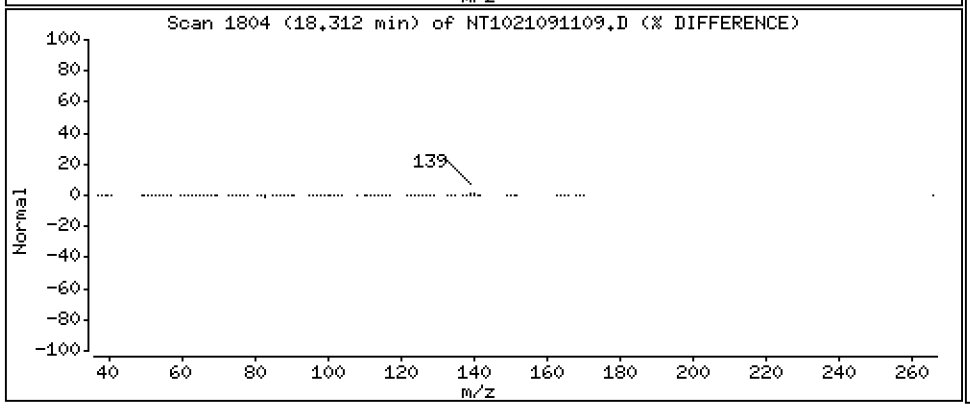
62 Carbazole

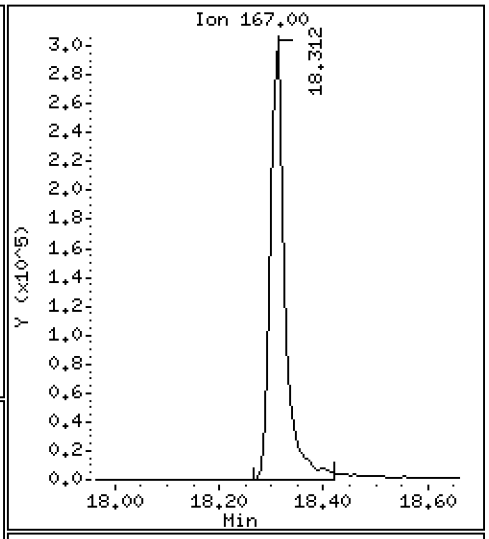
Concentration: 4.906 ug/mL

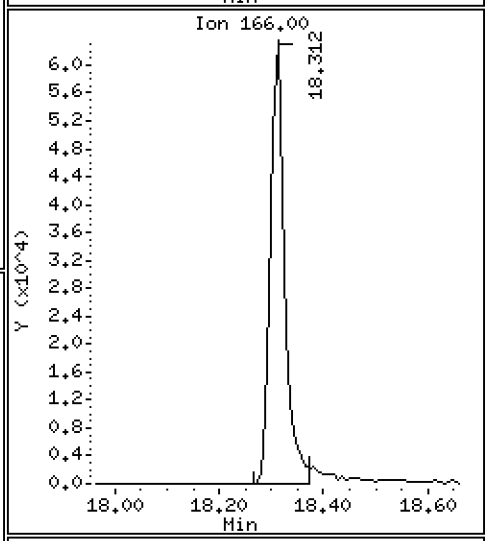


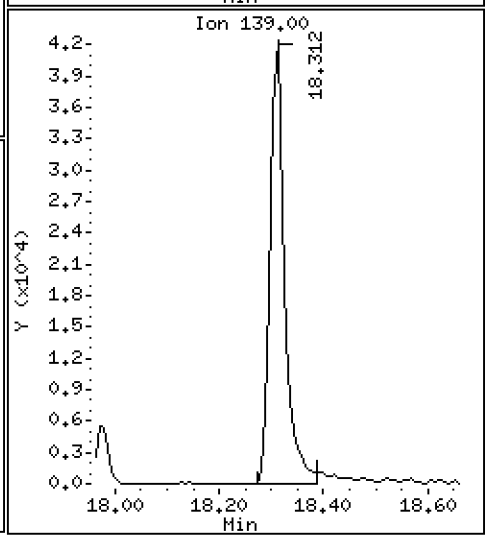












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

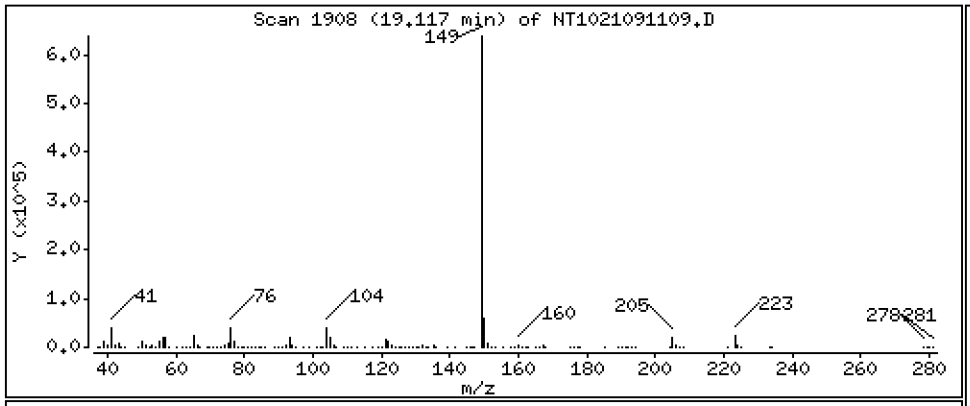
Operator: VTS

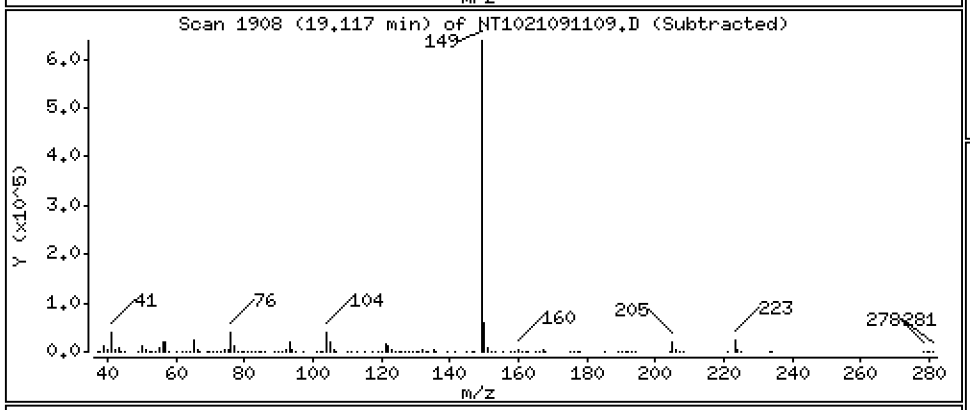
Column phase: ZB-5msi

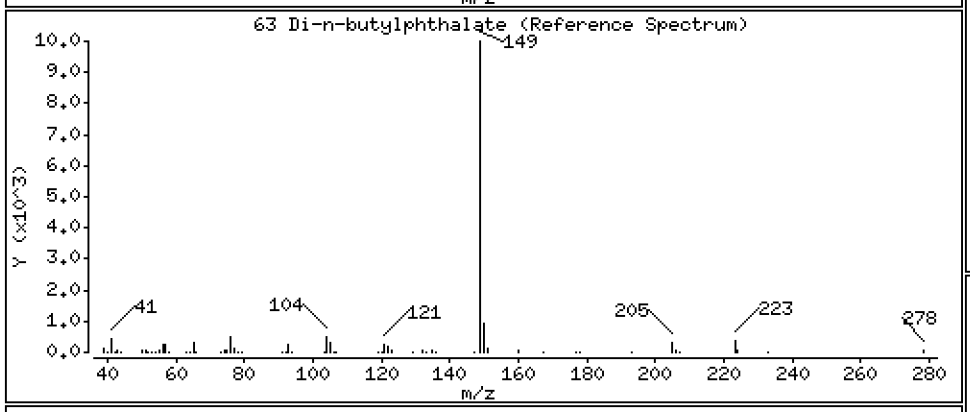
Column diameter: 0.25

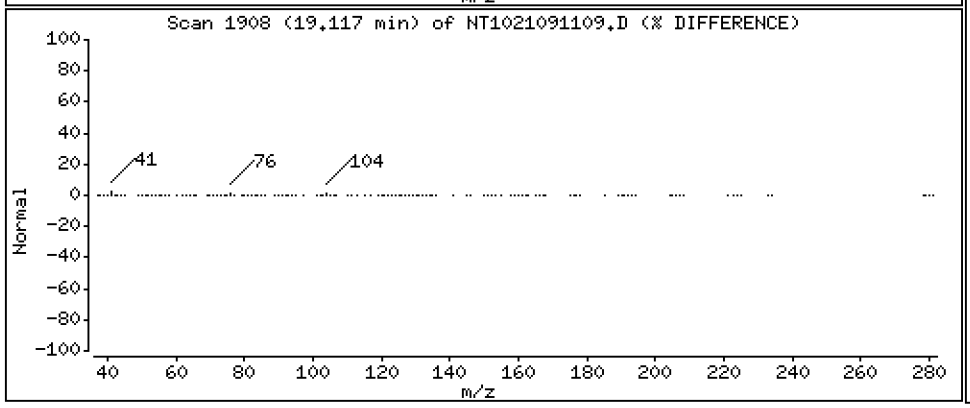
63 Di-n-butylphthalate

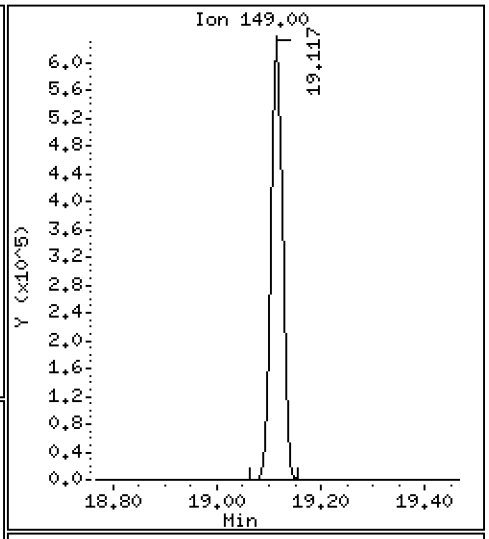
Concentration: 6.447 ug/mL

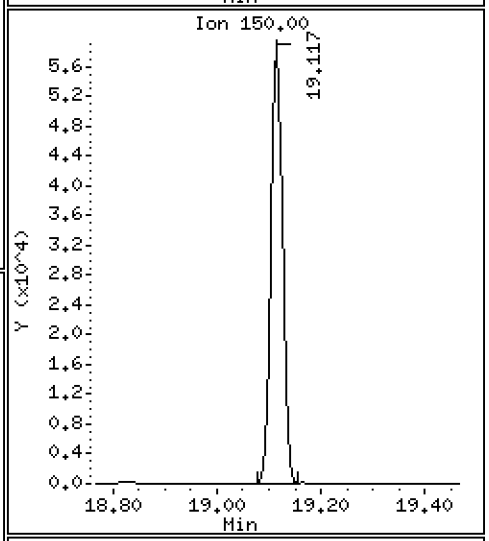


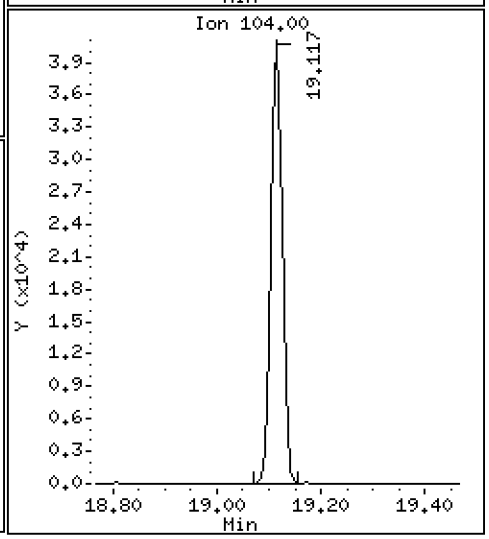












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

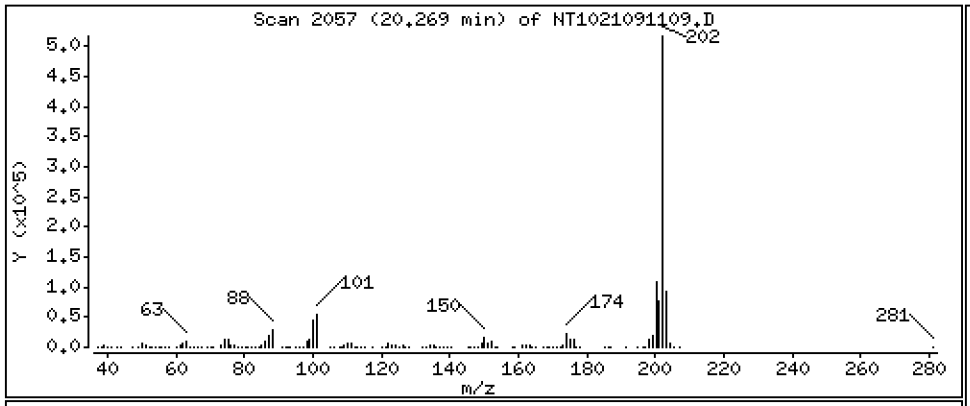
Operator: VTS

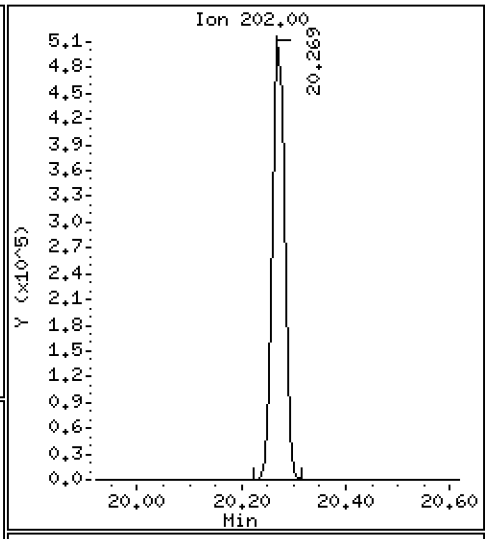
Column phase: ZB-5msi

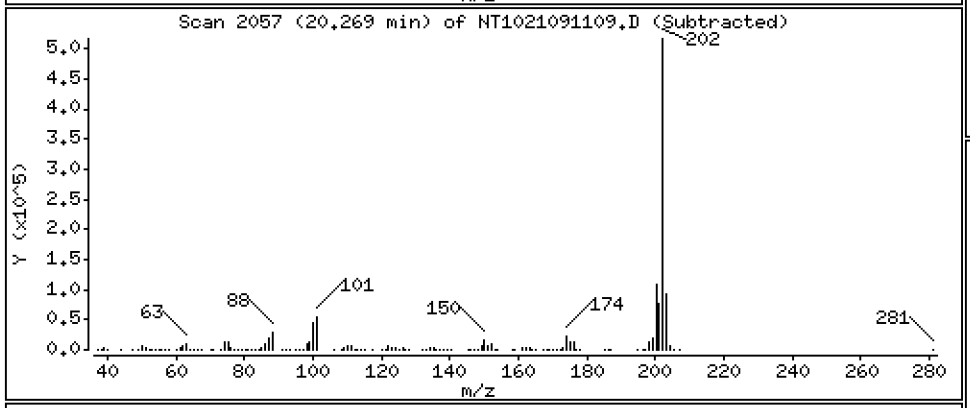
Column diameter: 0.25

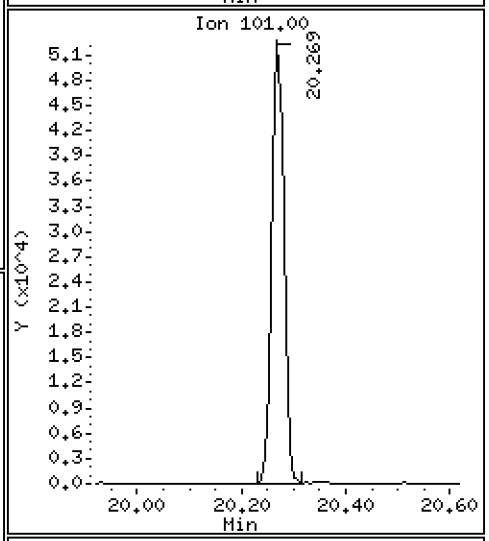
64 Fluoranthene

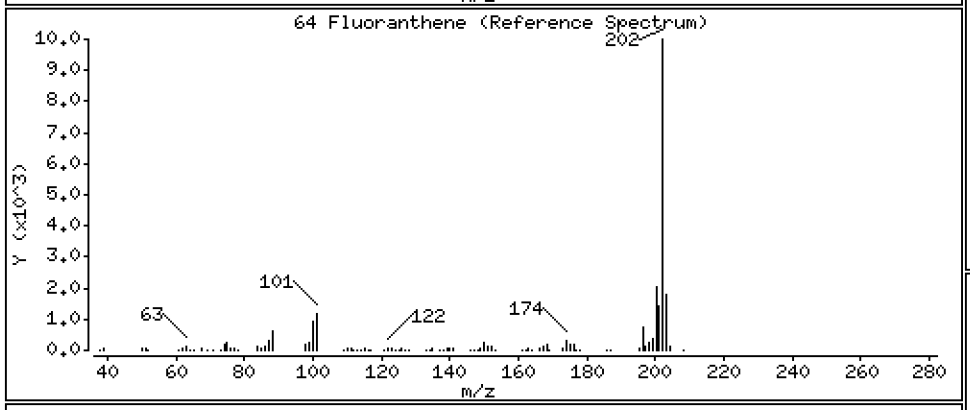
Concentration: 7.399 ug/mL

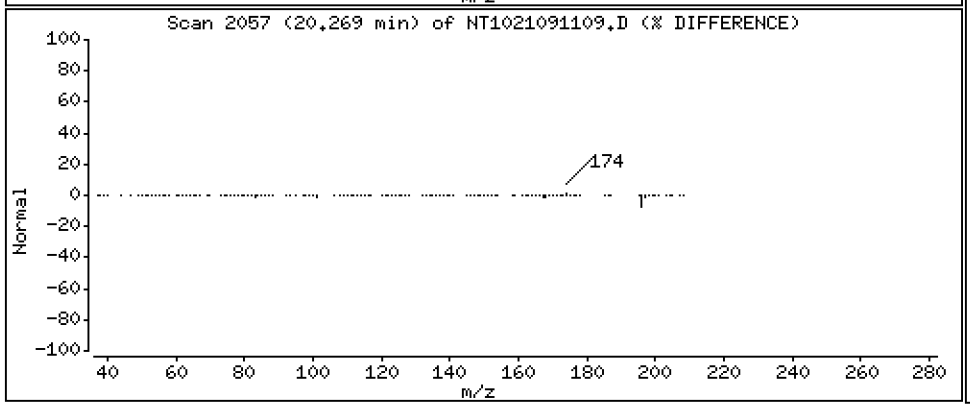


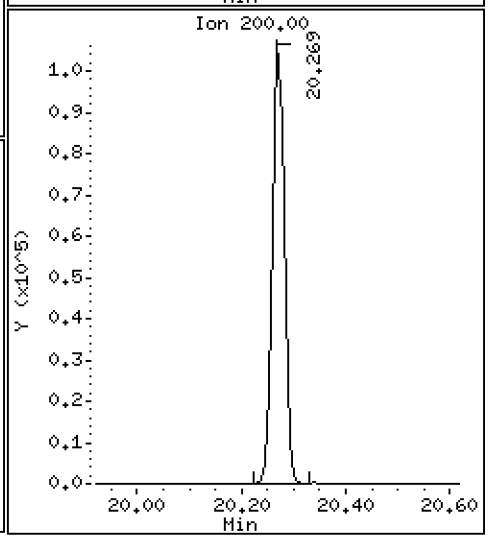












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

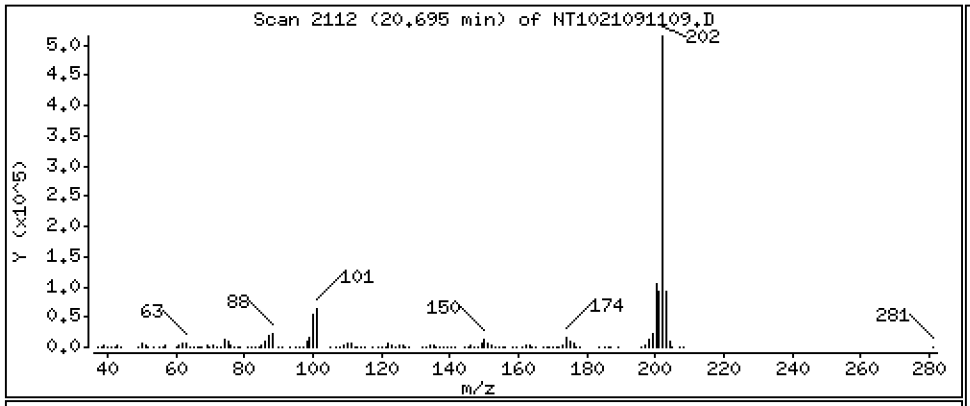
Operator: VTS

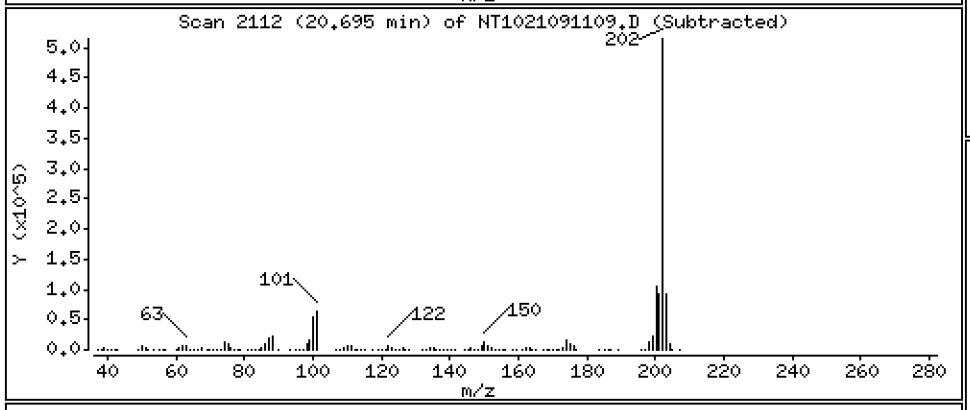
Column phase: ZB-5msi

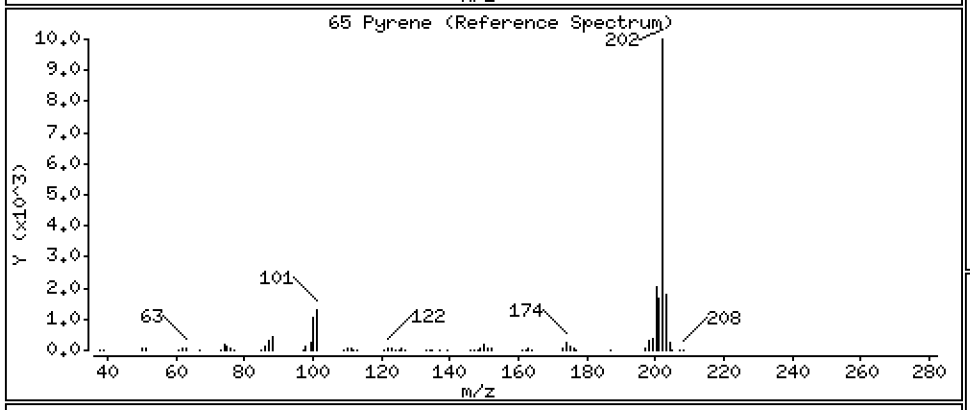
Column diameter: 0.25

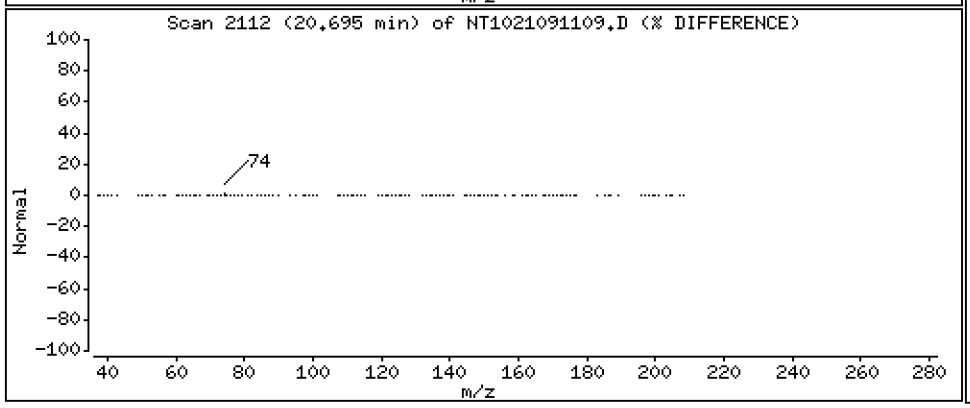
65 Pyrene

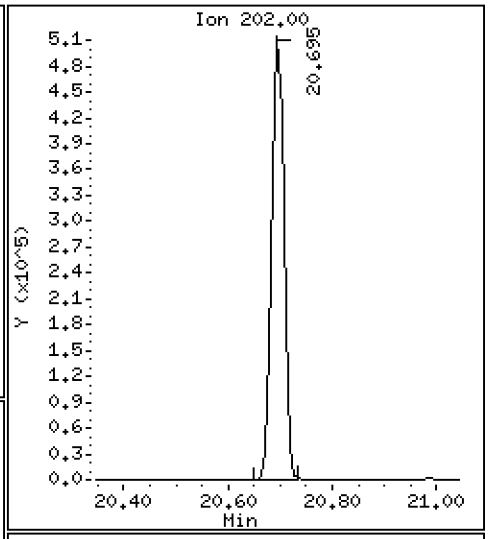
Concentration: 7.265 ug/mL

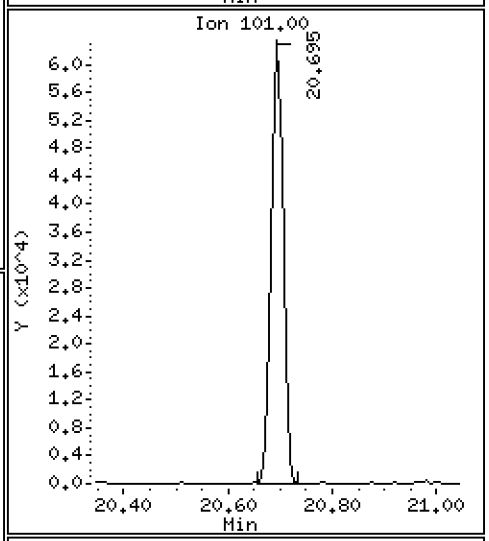


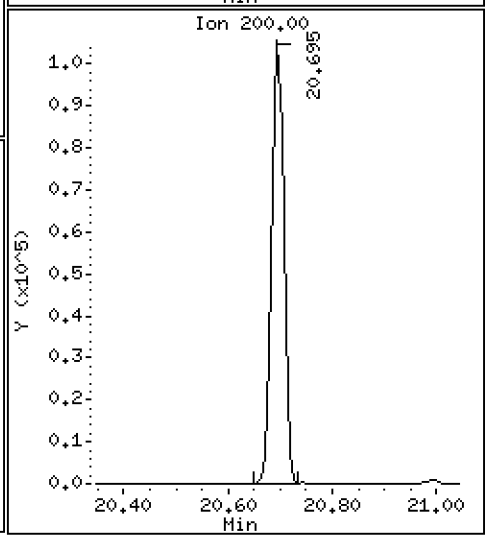












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

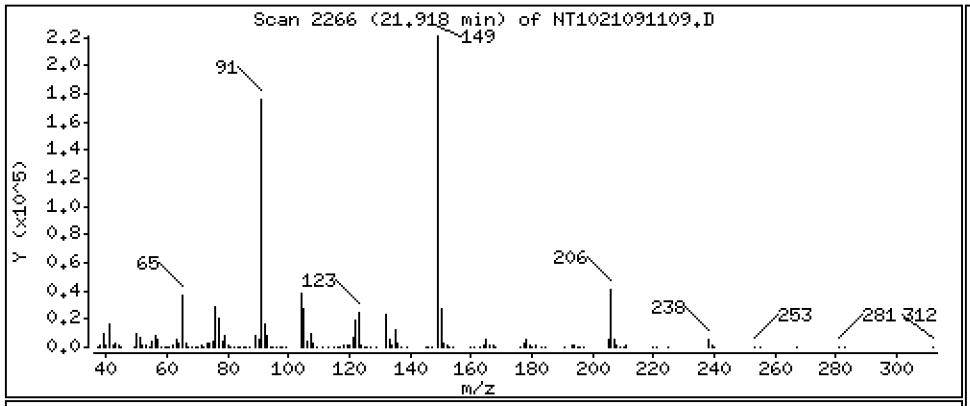
Operator: VTS

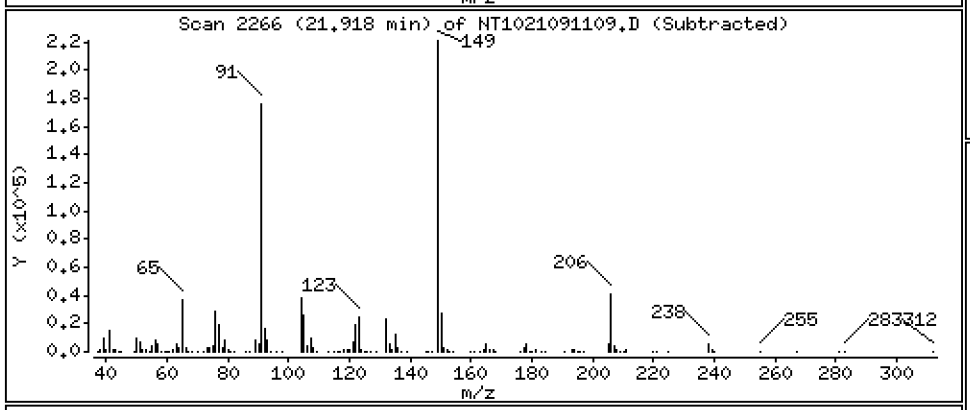
Column phase: ZB-5msi

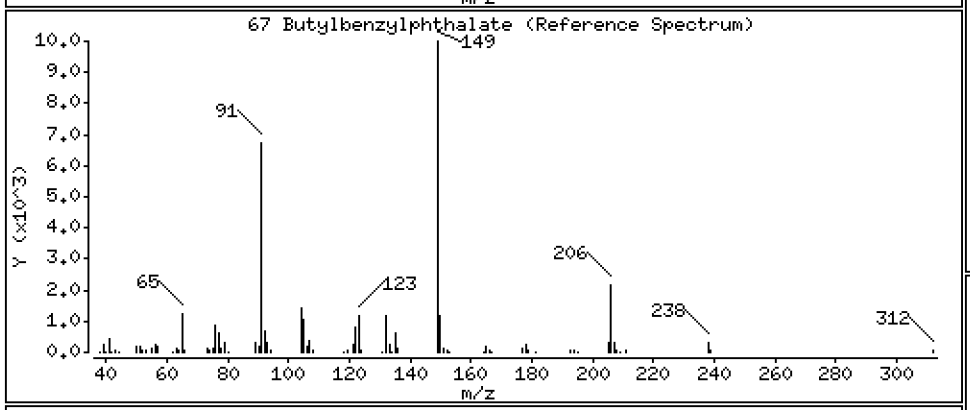
Column diameter: 0.25

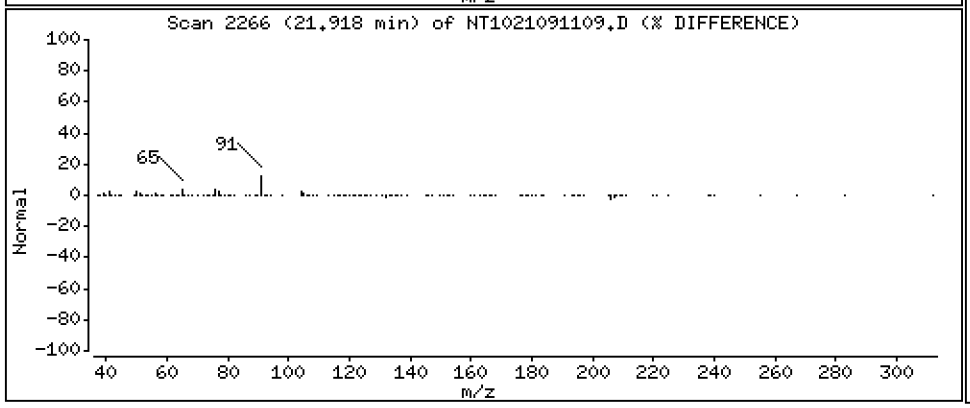
67 Butylbenzylphthalate

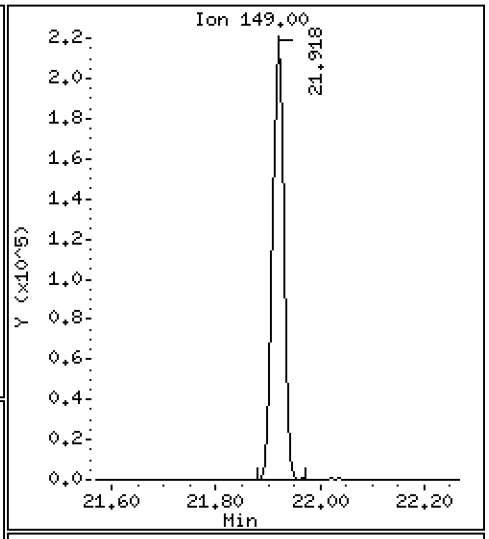
Concentration: 7.162 ug/mL

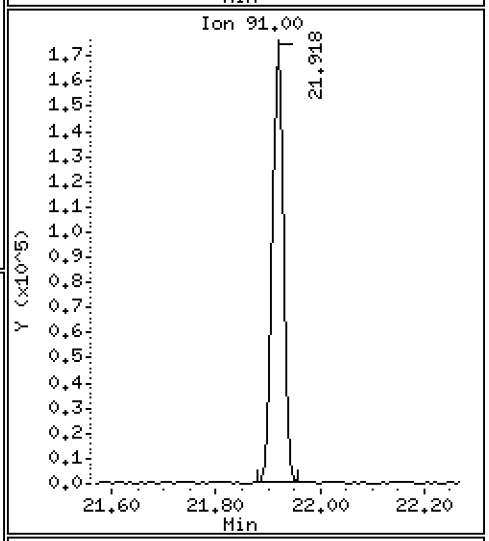


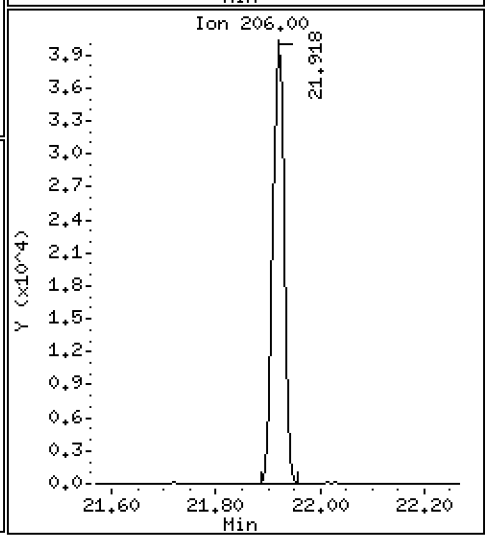












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

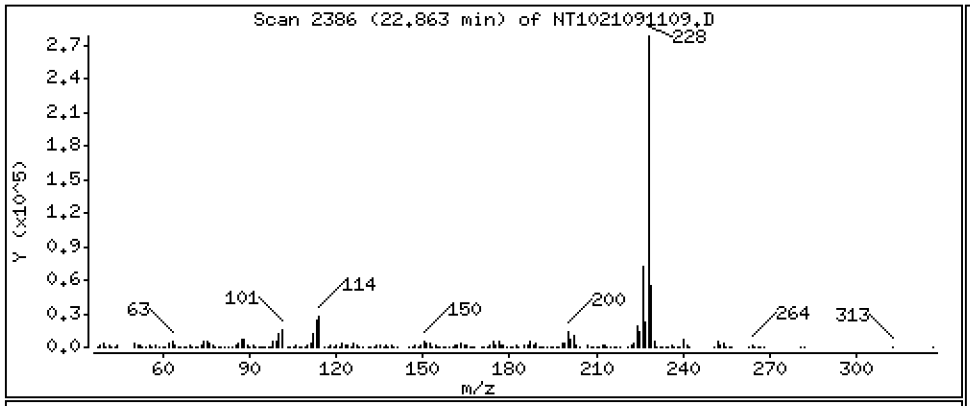
Operator: VTS

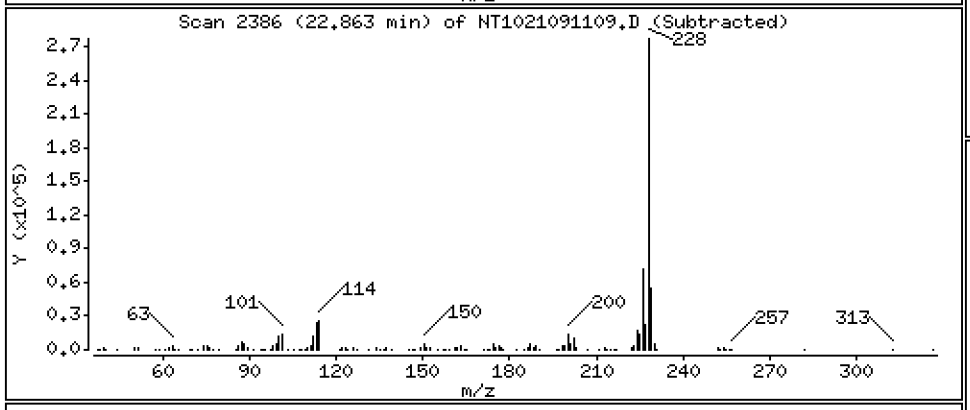
Column phase: ZB-5msi

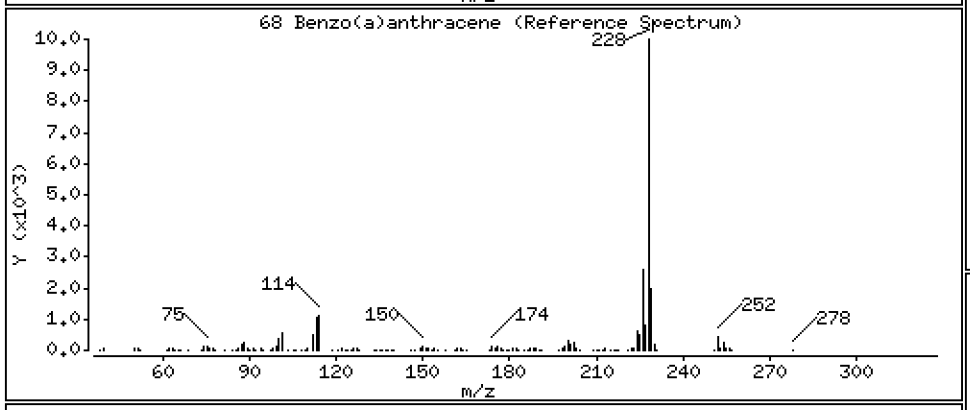
Column diameter: 0.25

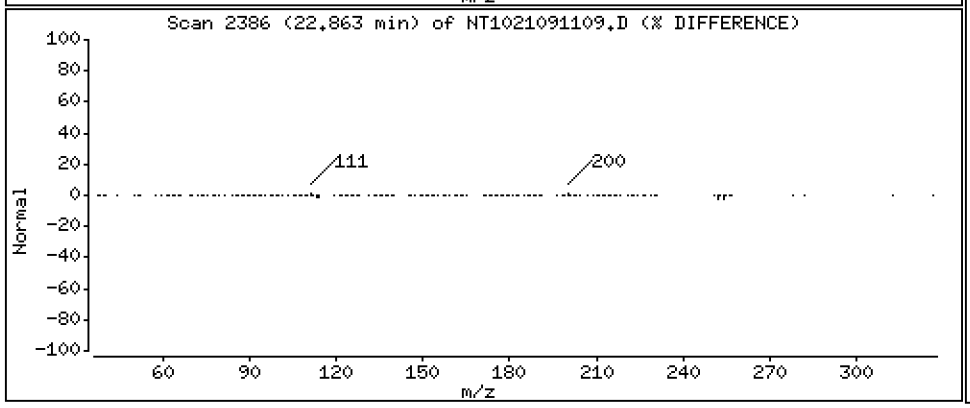
68 Benzo(a)anthracene

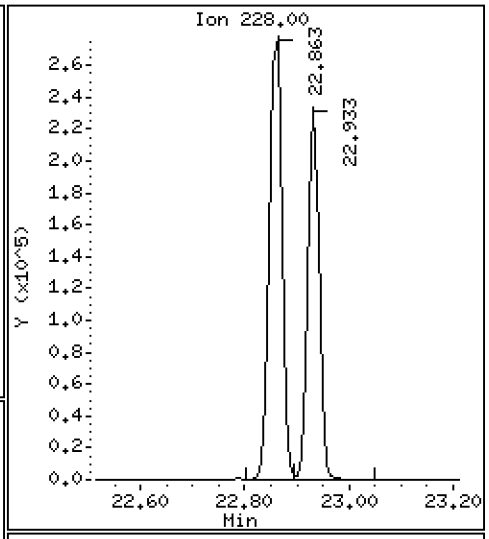
Concentration: 5.224 ug/mL

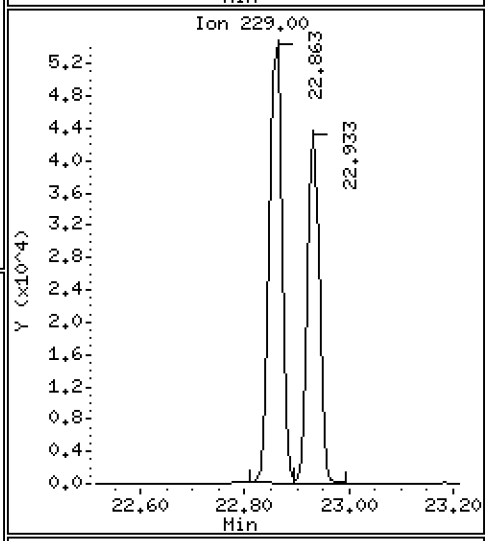


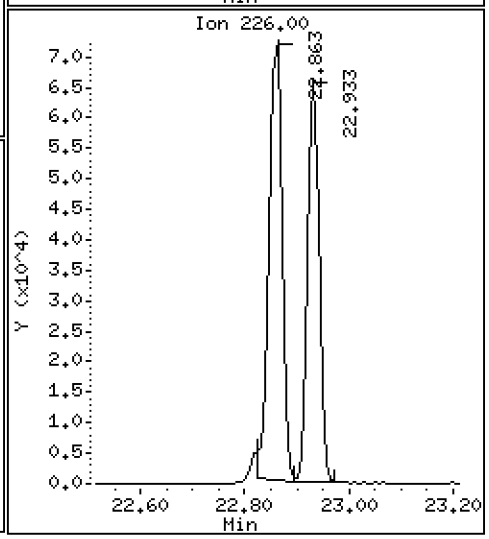












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

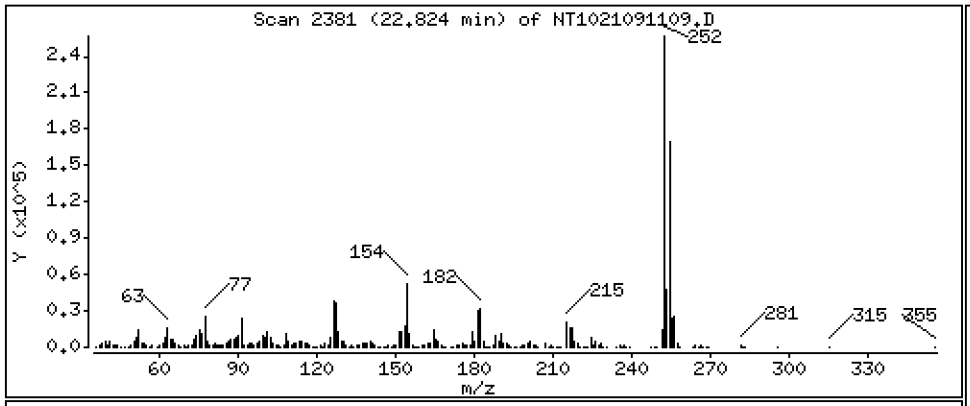
Operator: VTS

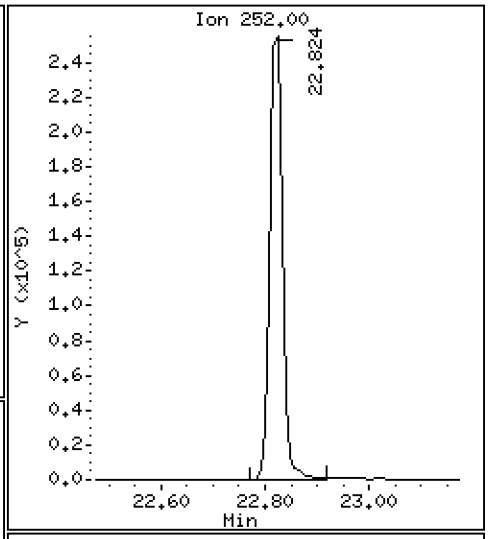
Column phase: ZB-5msi

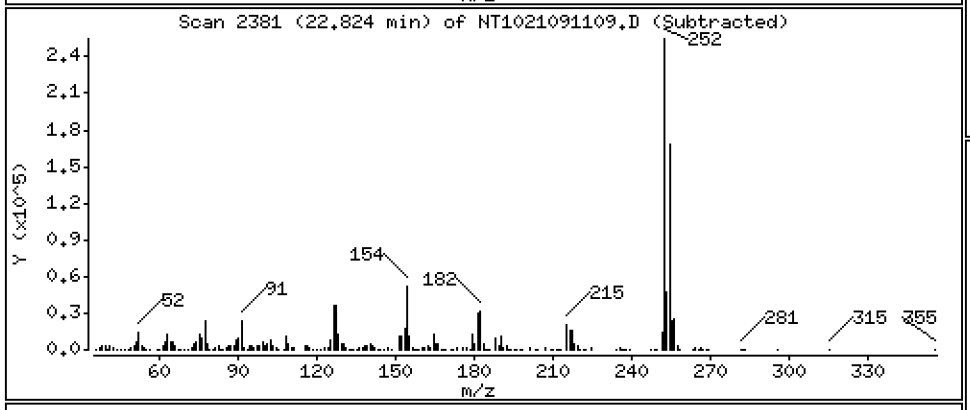
Column diameter: 0.25

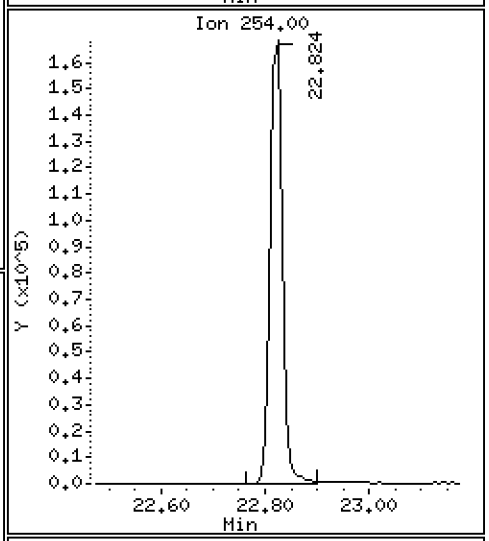
70 3,3'-Dichlorobenzidine

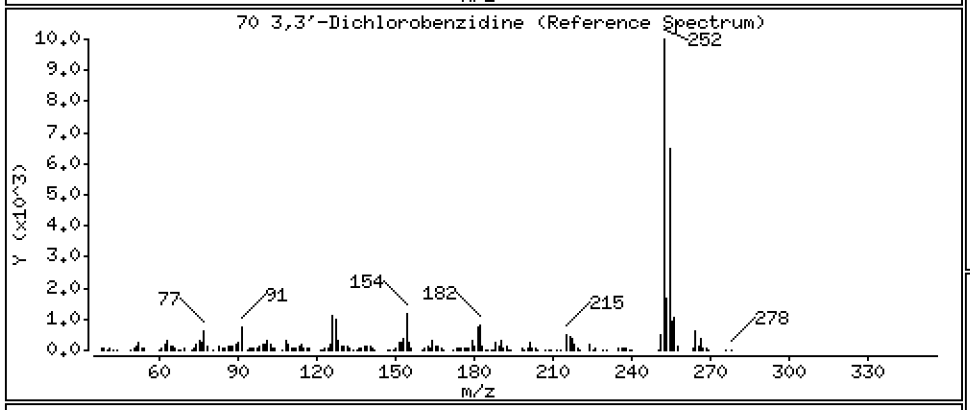
Concentration: 12.08 ug/mL

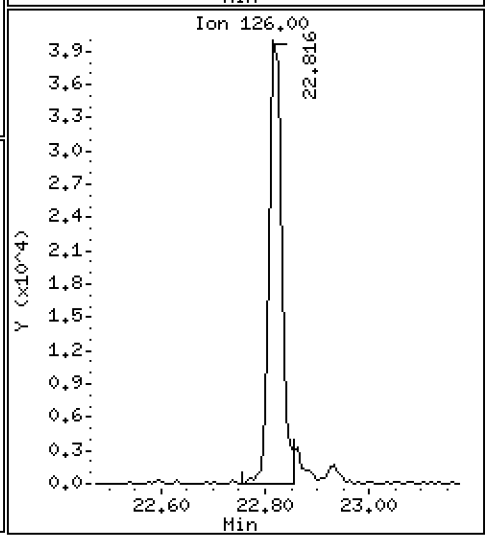


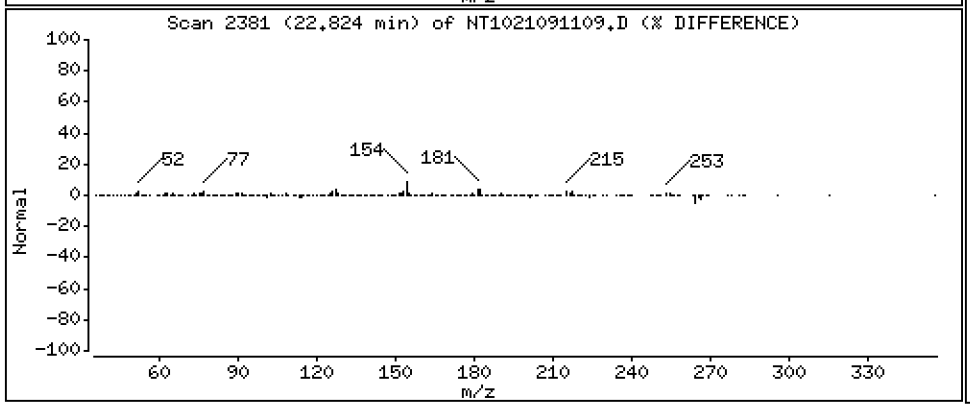












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

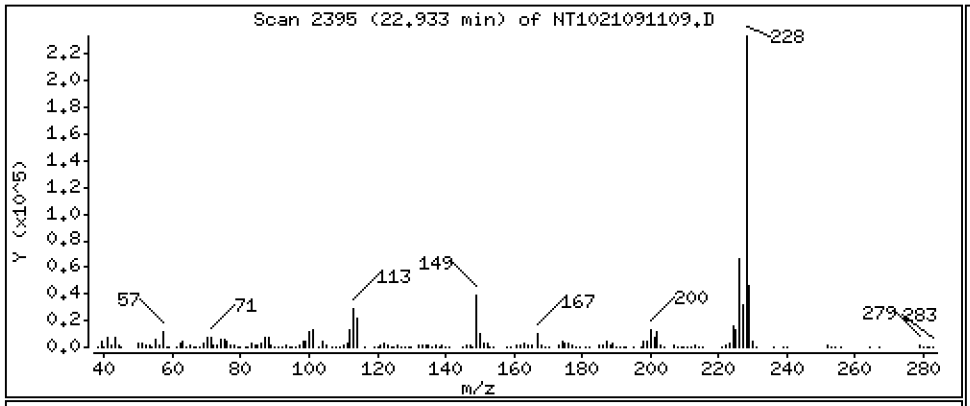
Operator: VTS

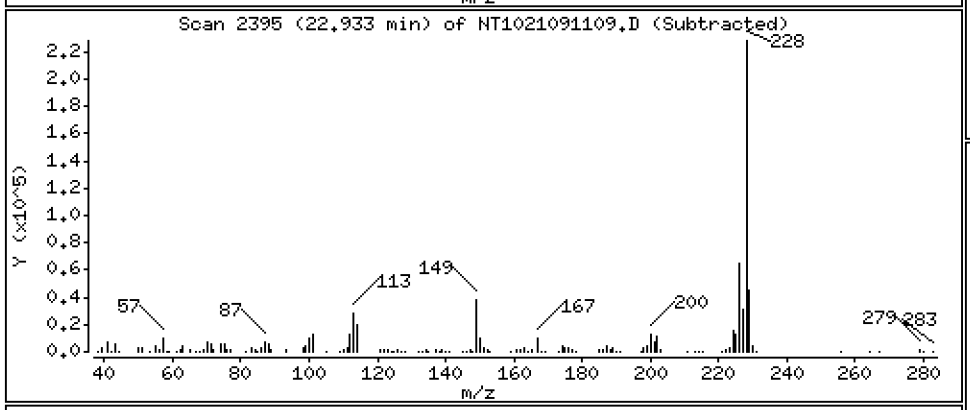
Column phase: ZB-5msi

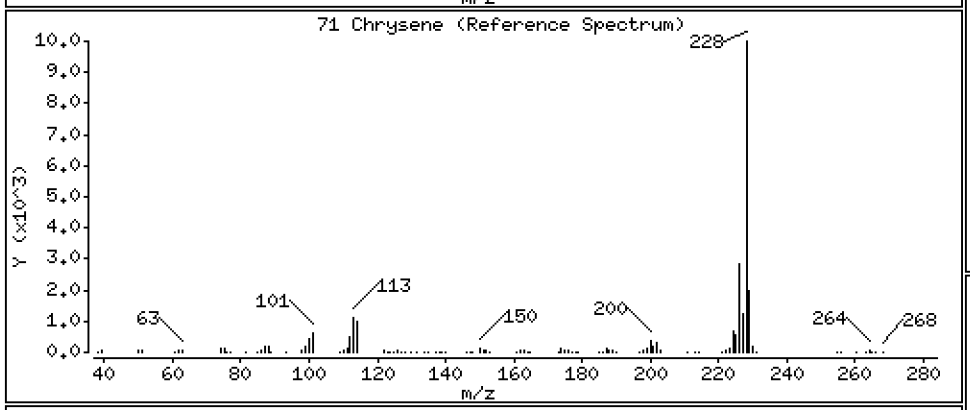
Column diameter: 0.25

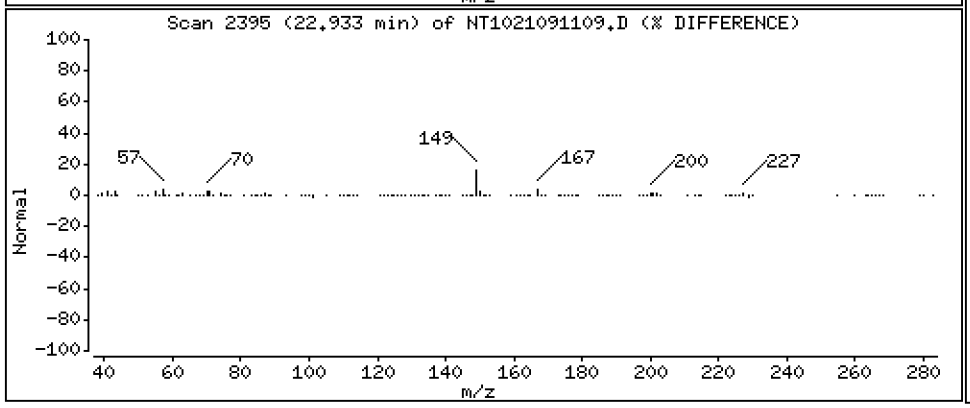
71 Chrysene

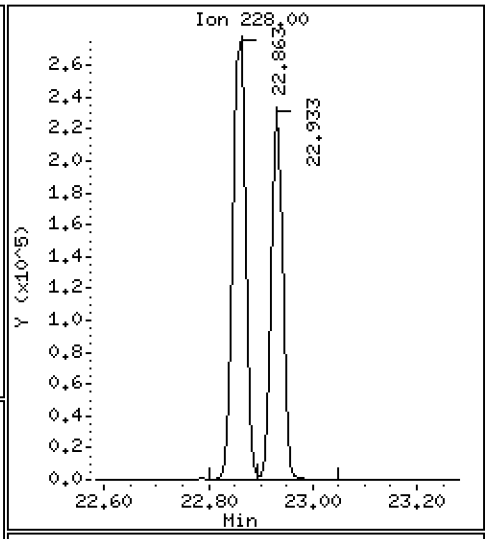
Concentration: 4.936 ug/mL

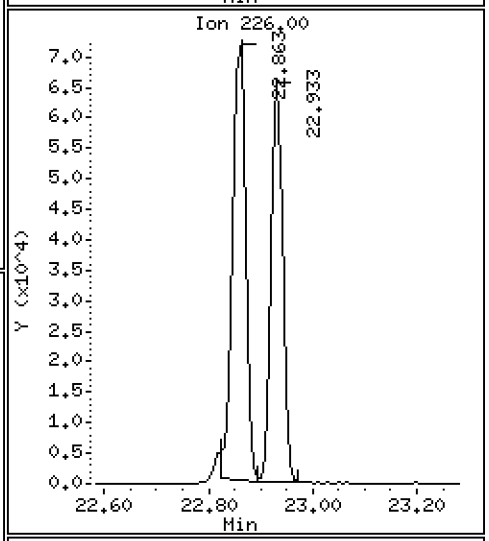


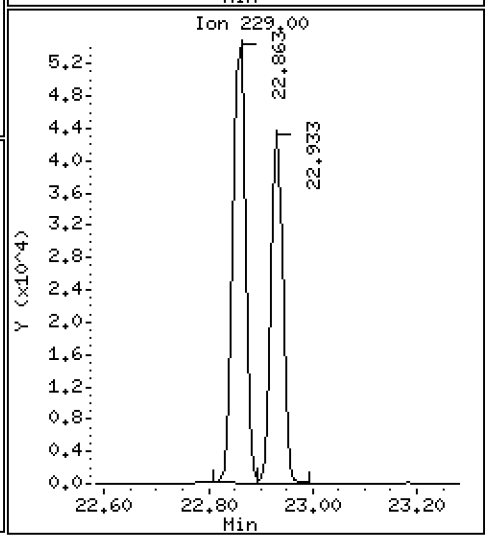












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

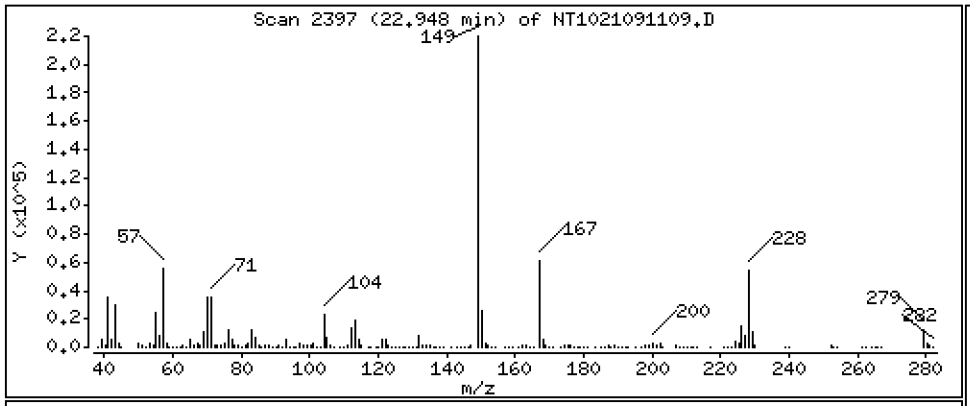
Operator: VTS

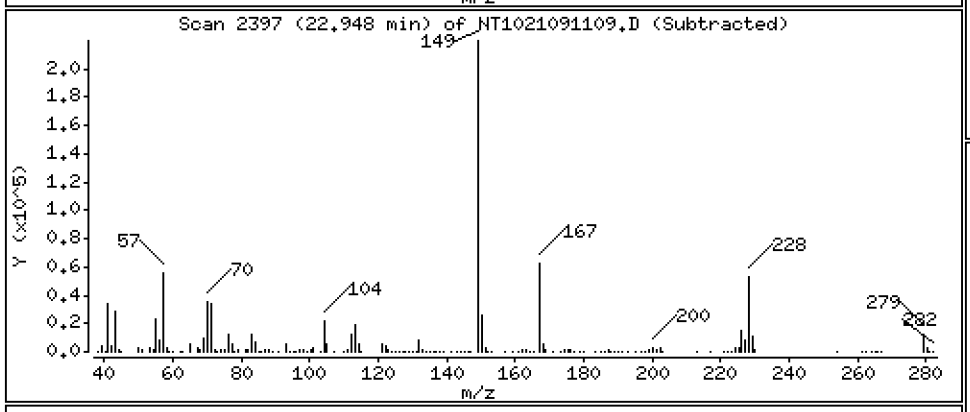
Column phase: ZB-5msi

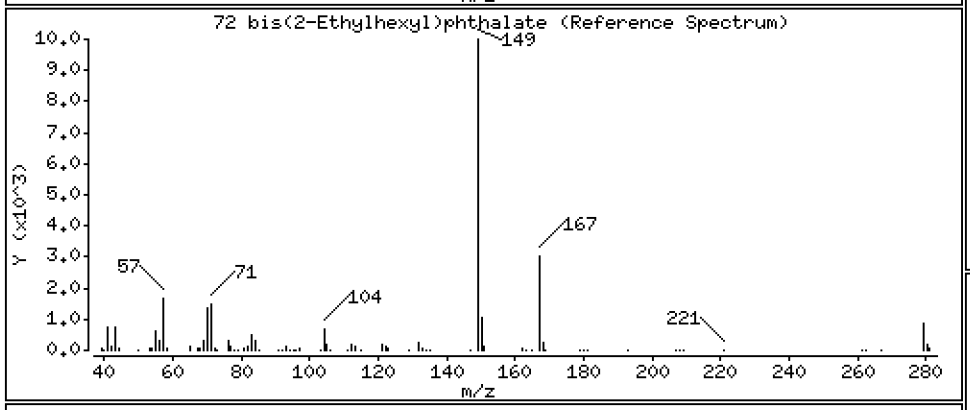
Column diameter: 0.25

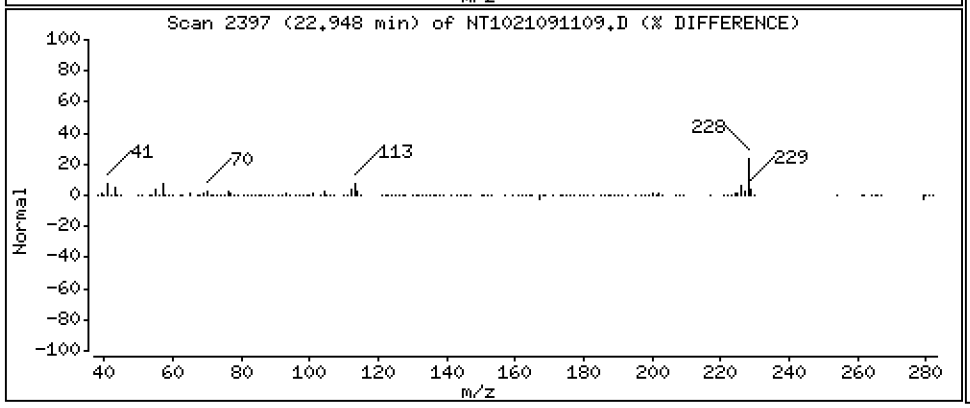
72 bis(2-Ethylhexyl)phthalate

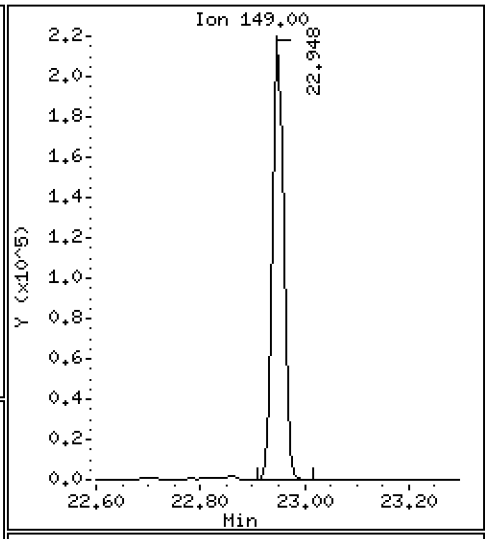
Concentration: 5.718 ug/mL

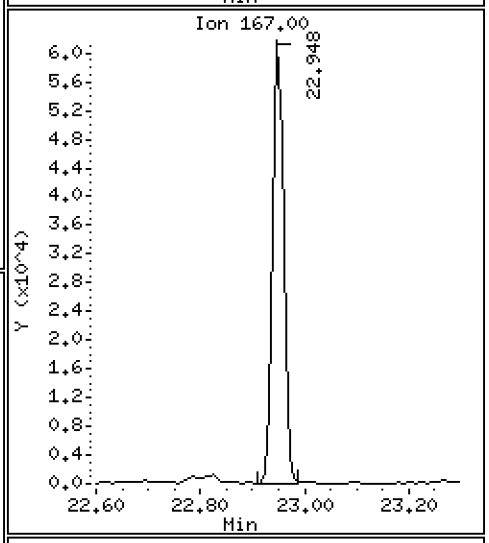


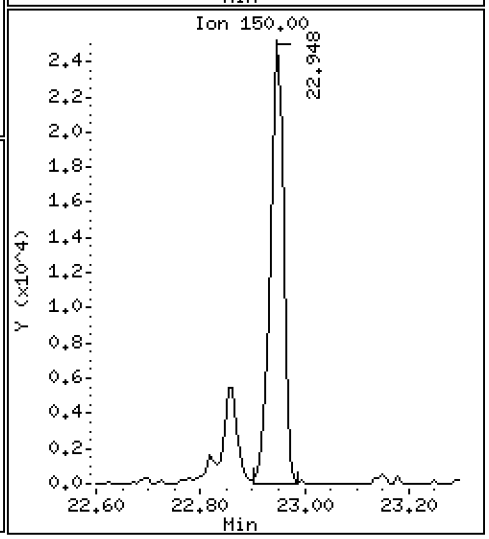












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

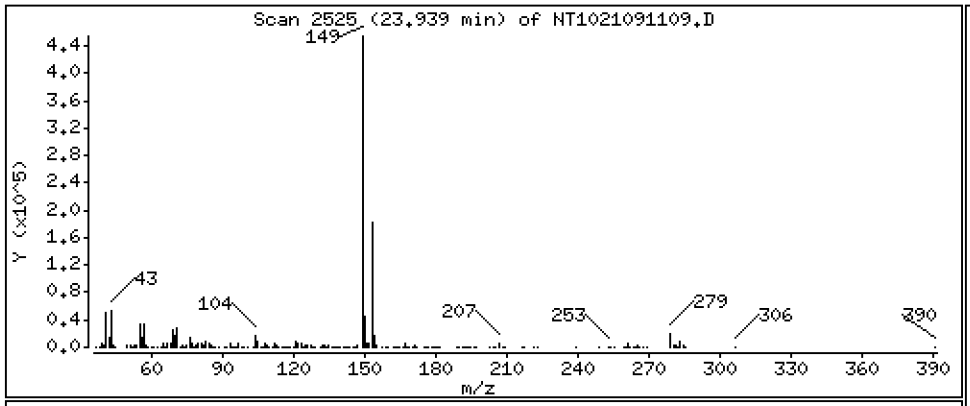
Operator: VTS

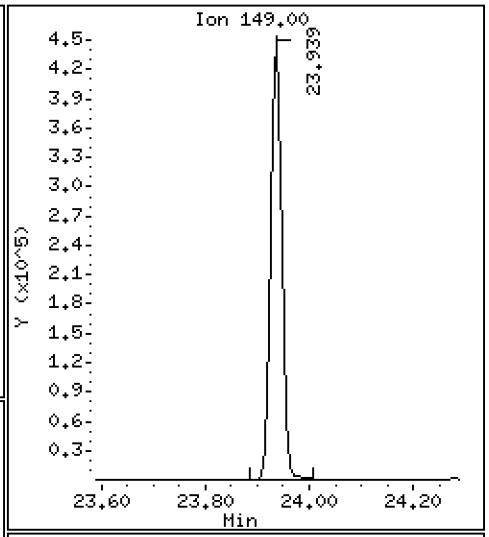
Column phase: ZB-5msi

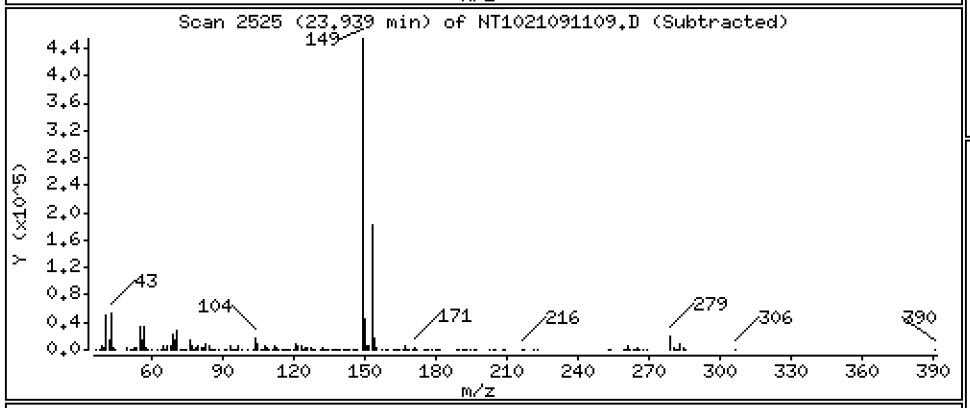
Column diameter: 0.25

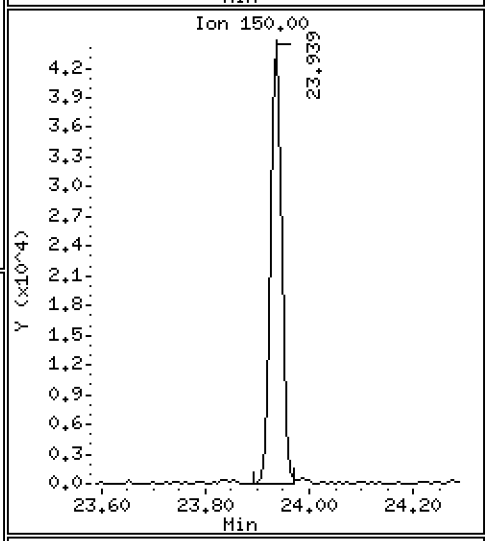
73 Di-n-octylphthalate

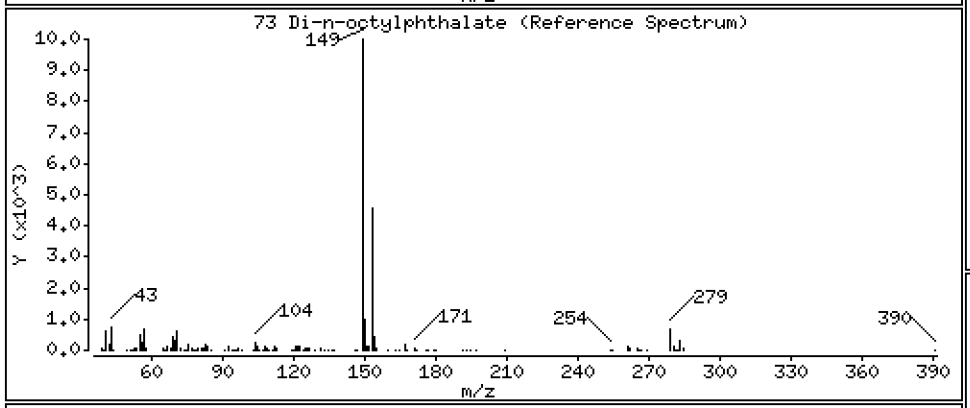
Concentration: 5.132 ug/mL

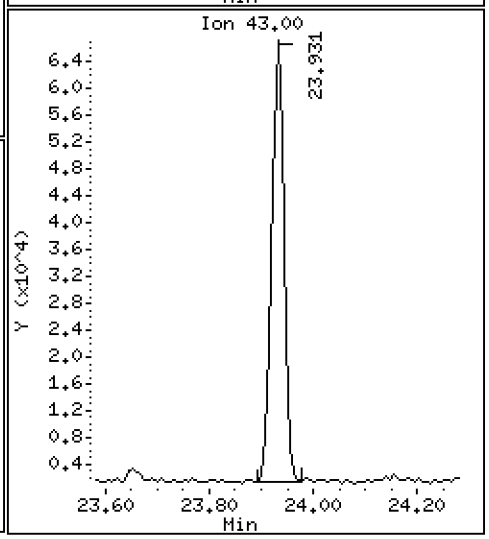


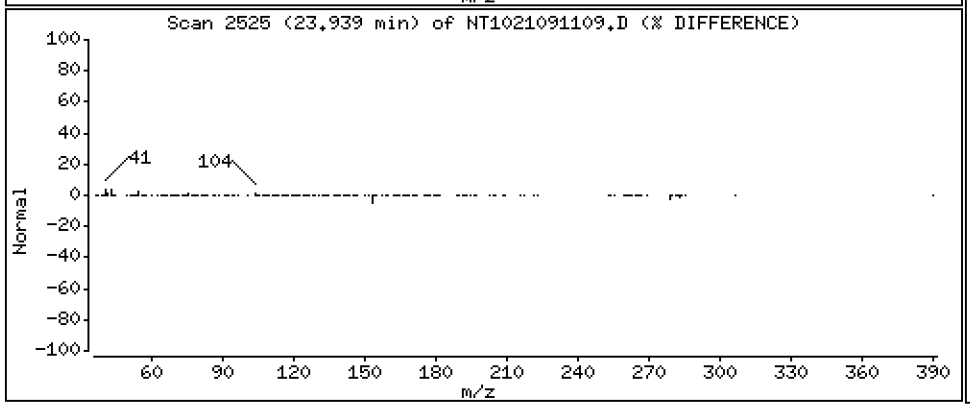












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

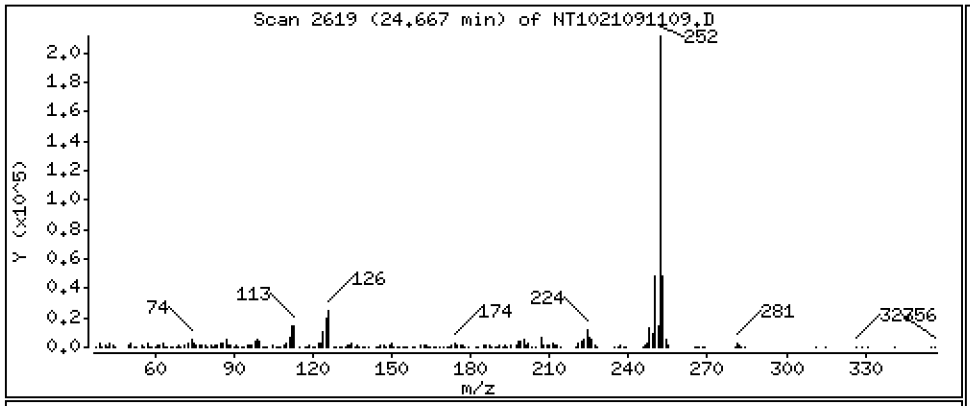
Operator: VTS

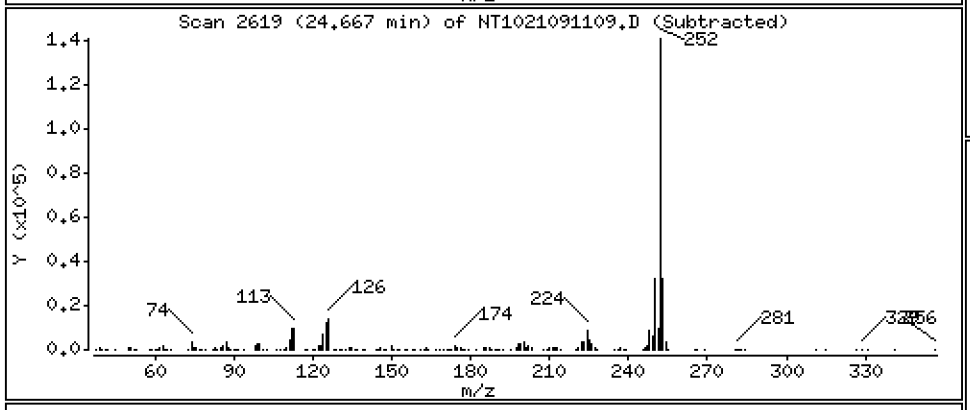
Column phase: ZB-5msi

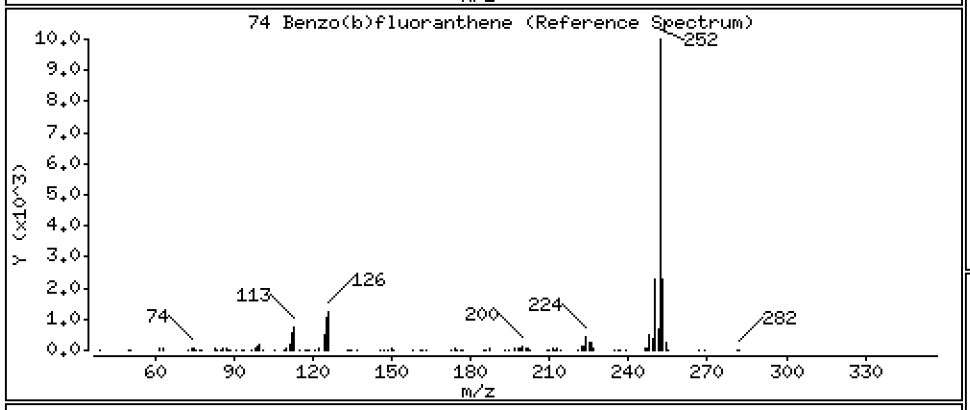
Column diameter: 0.25

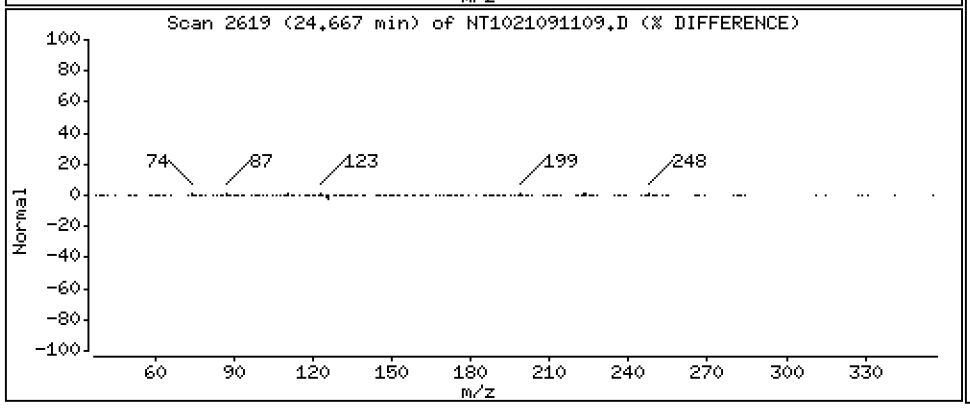
74 Benzo(b)fluoranthene

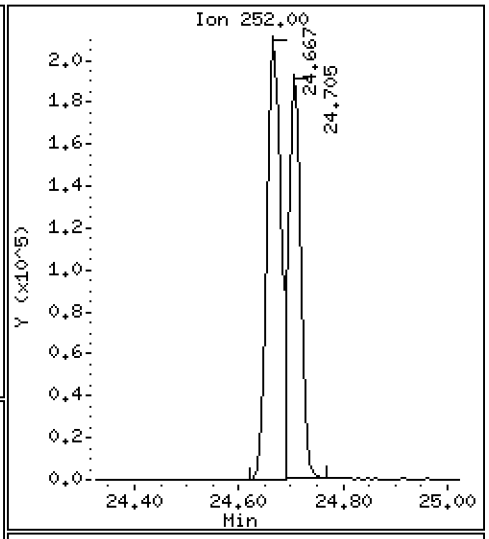
Concentration: 5.290 ug/mL

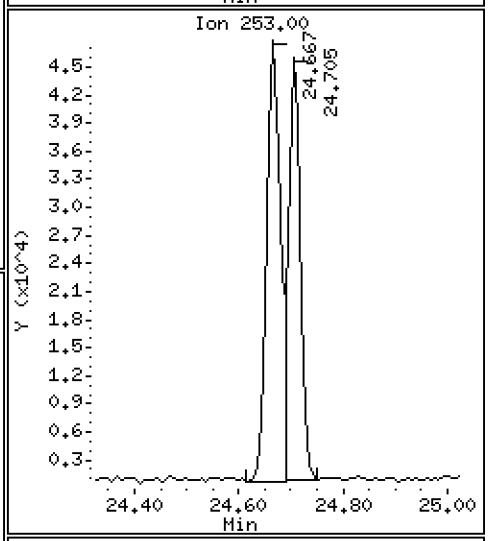


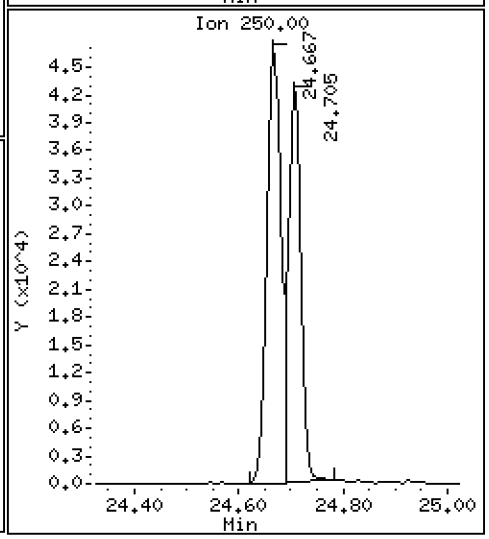












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

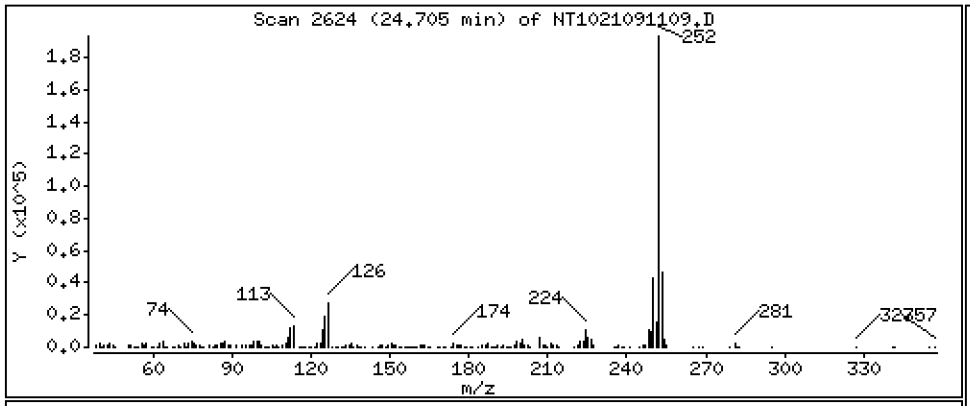
Operator: VTS

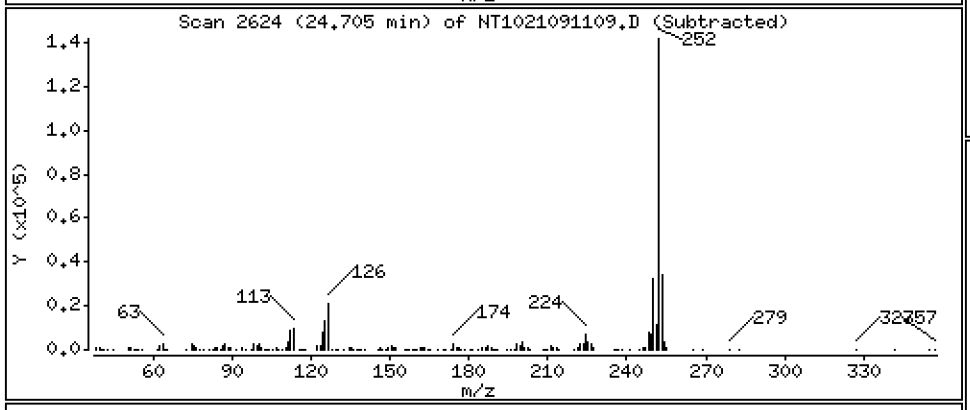
Column phase: ZB-5msi

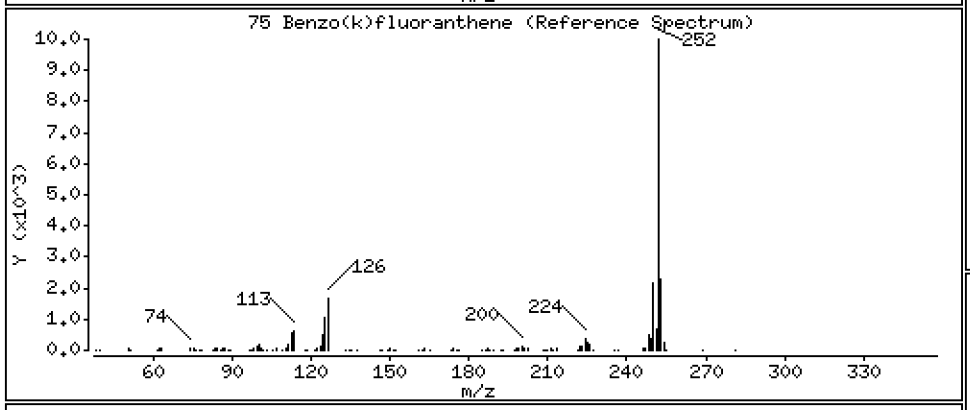
Column diameter: 0.25

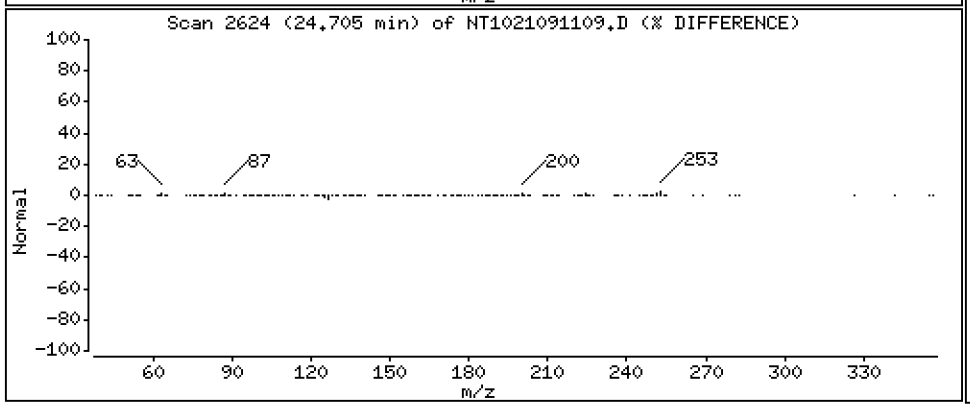
75 Benzo(k)fluoranthene

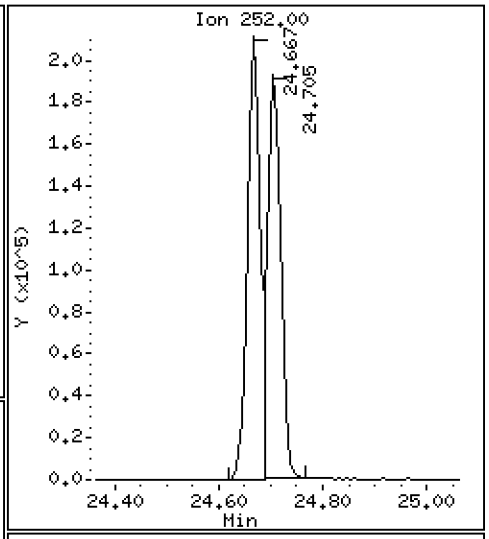
Concentration: 4.624 ug/mL

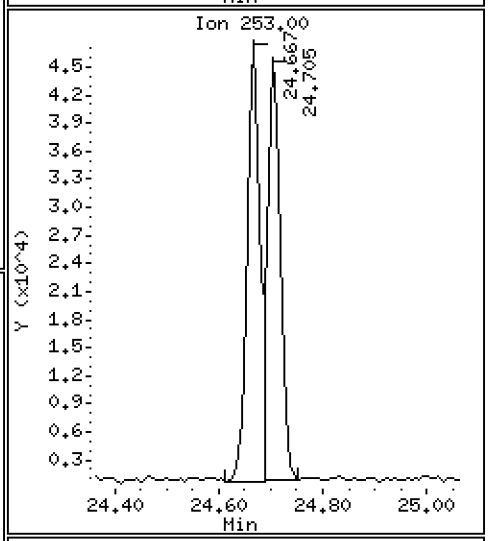


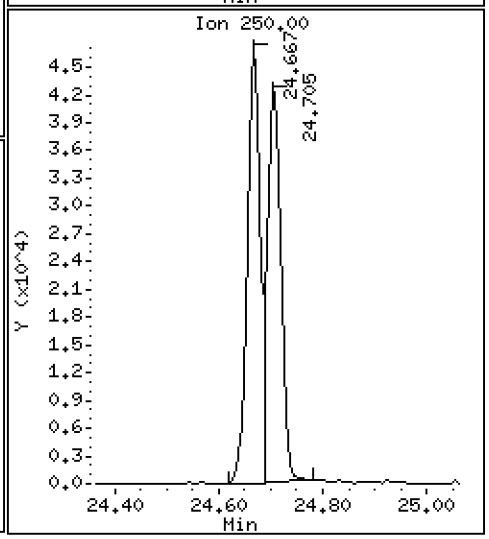












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

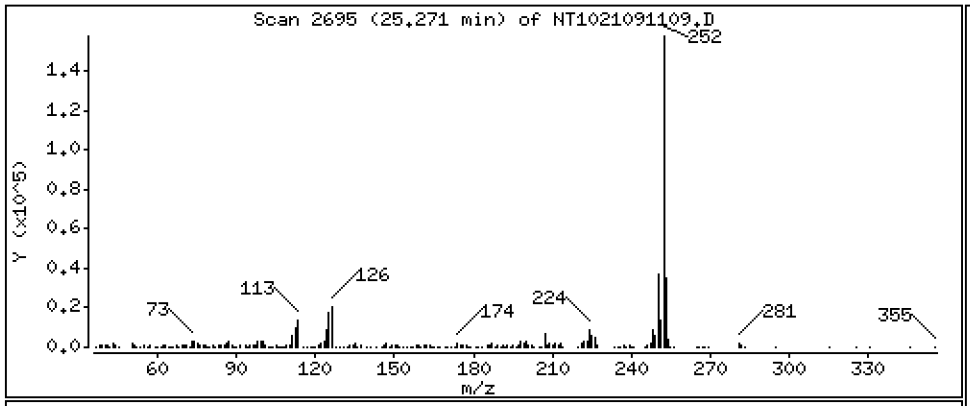
Operator: VTS

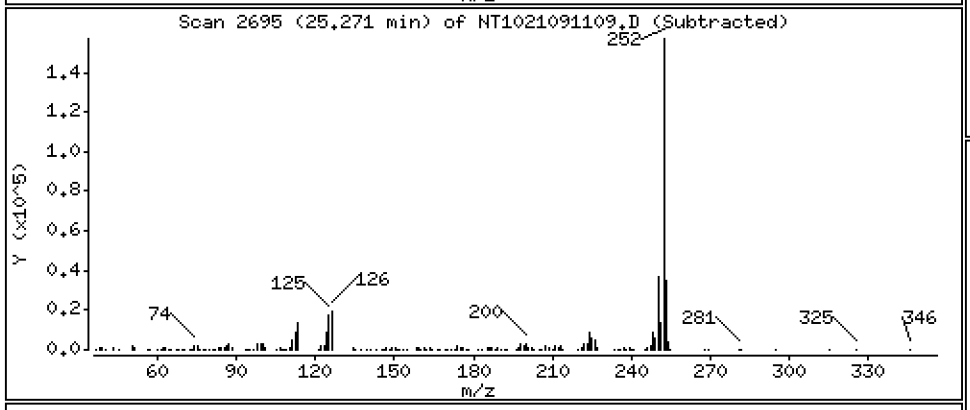
Column phase: ZB-5msi

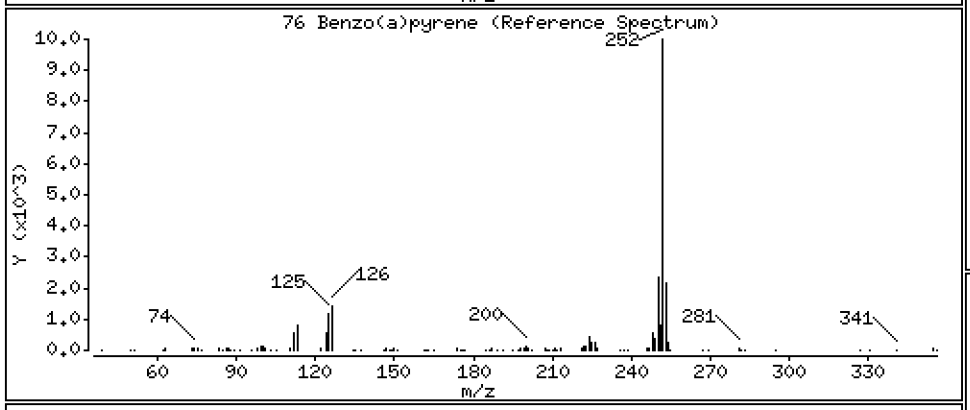
Column diameter: 0.25

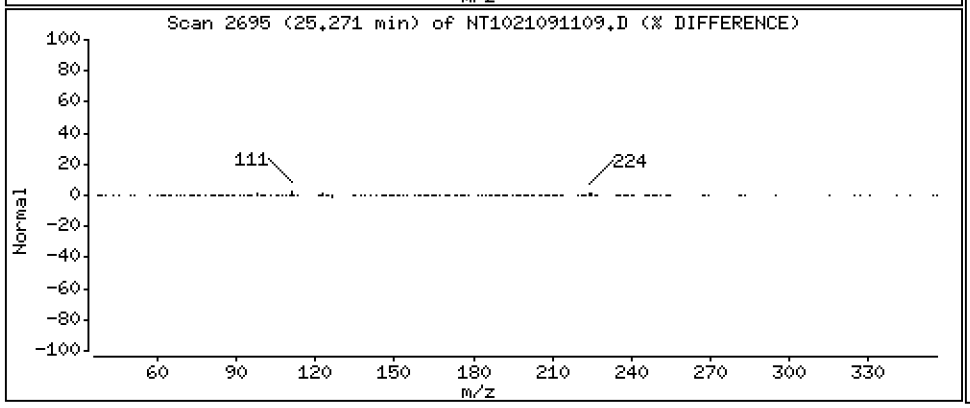
76 Benzo(a)pyrene

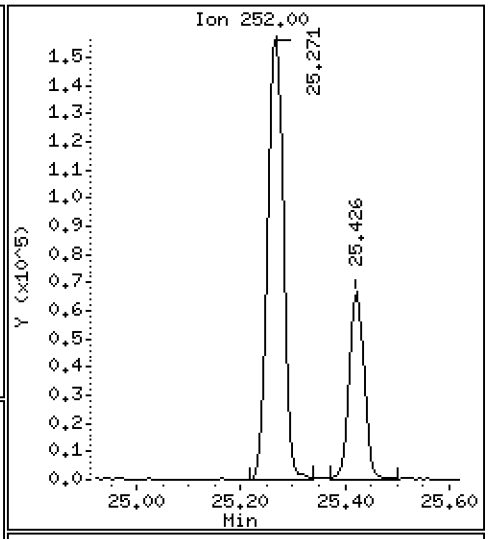
Concentration: 4.868 ug/mL

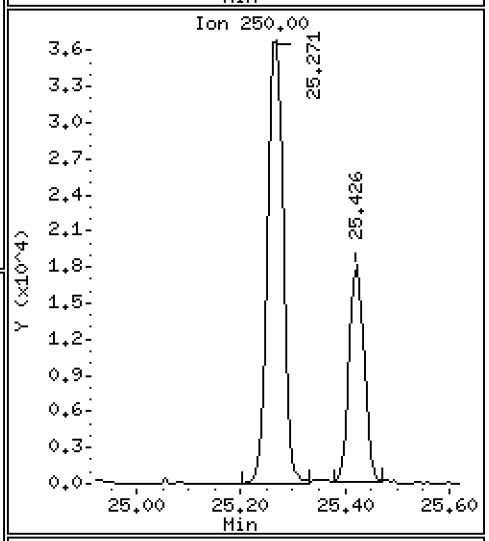


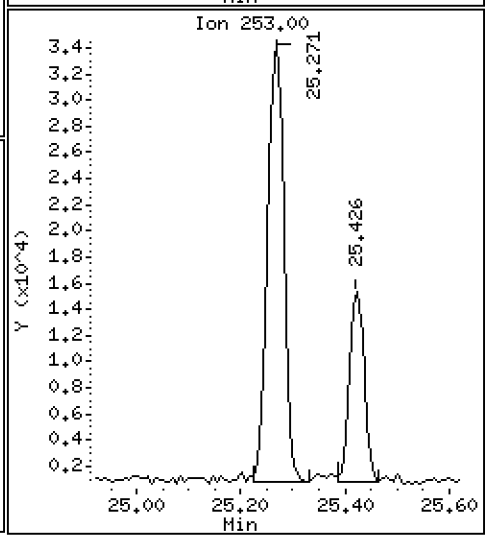












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

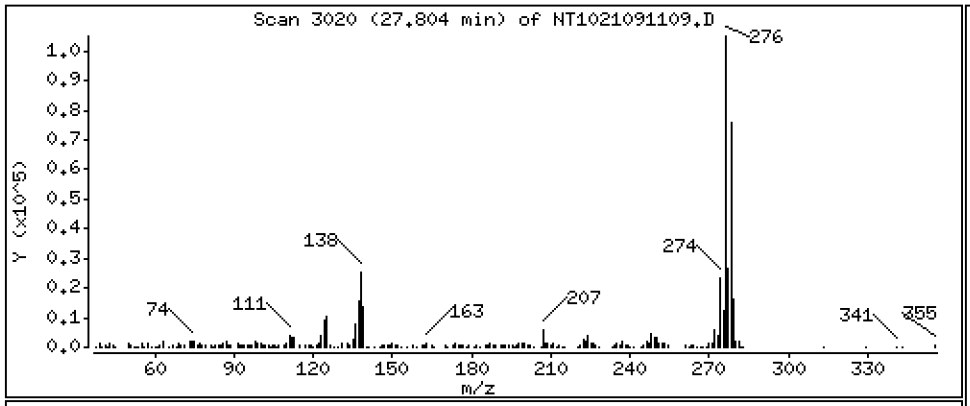
Operator: VTS

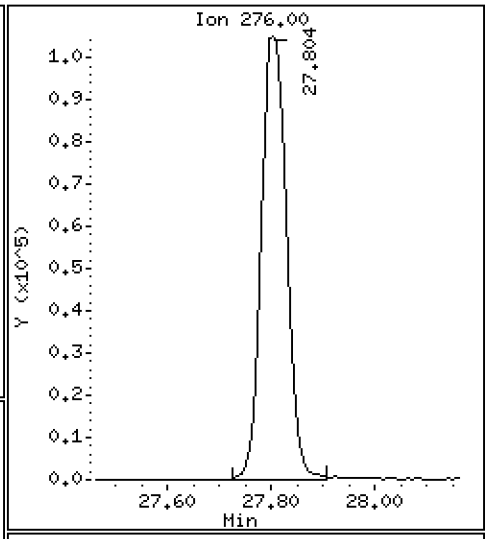
Column phase: ZB-5msi

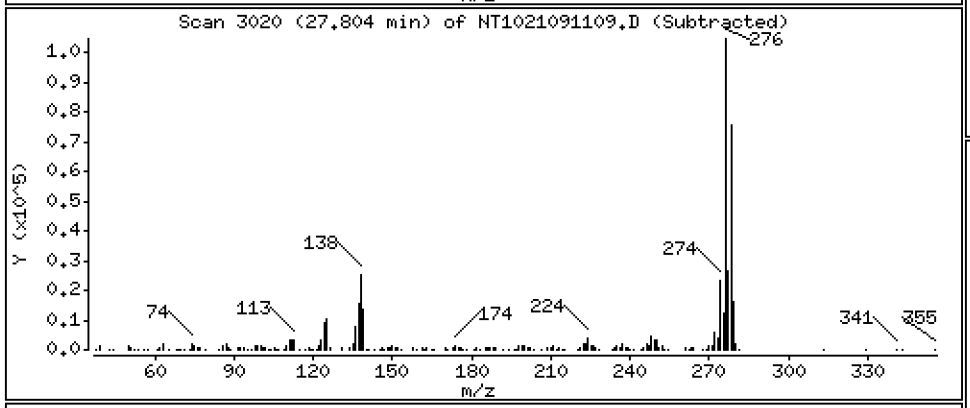
Column diameter: 0.25

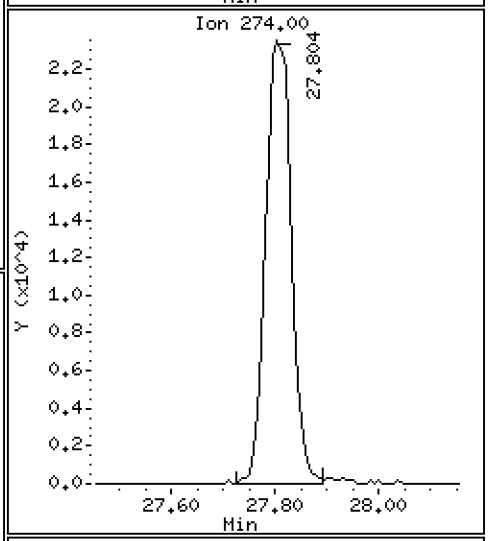
78 Indeno(1,2,3-cd)pyrene

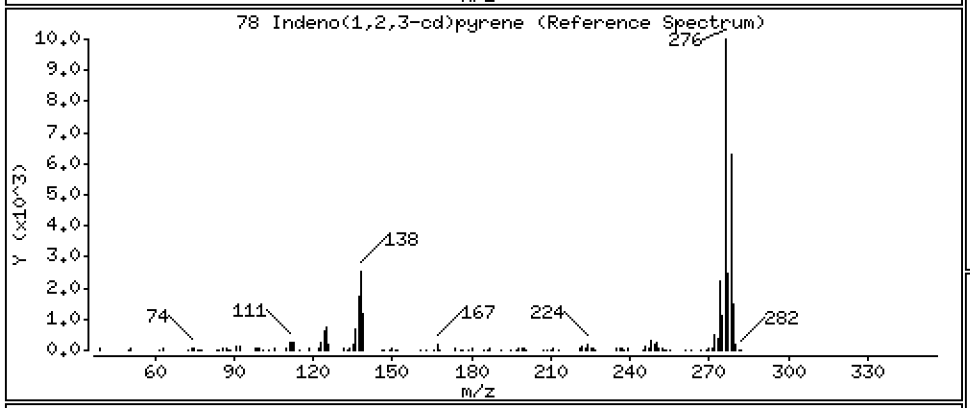
Concentration: 5.216 ug/mL

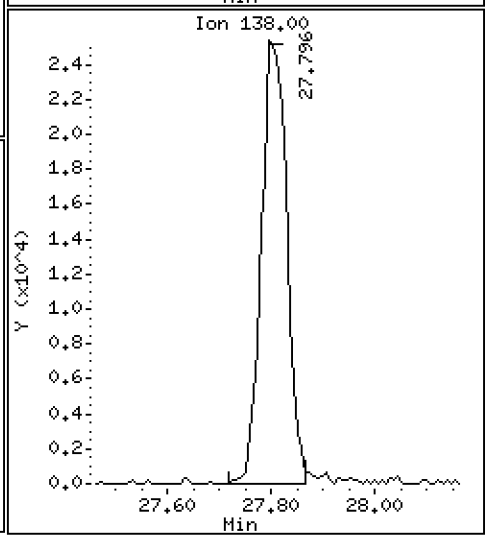


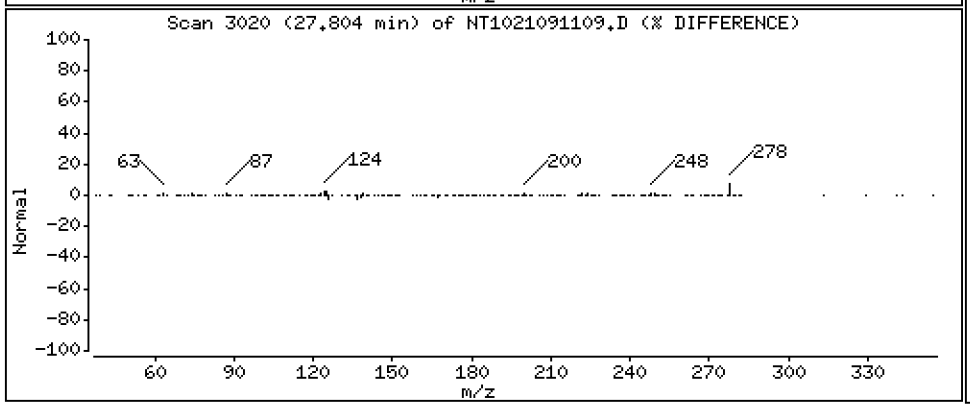












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

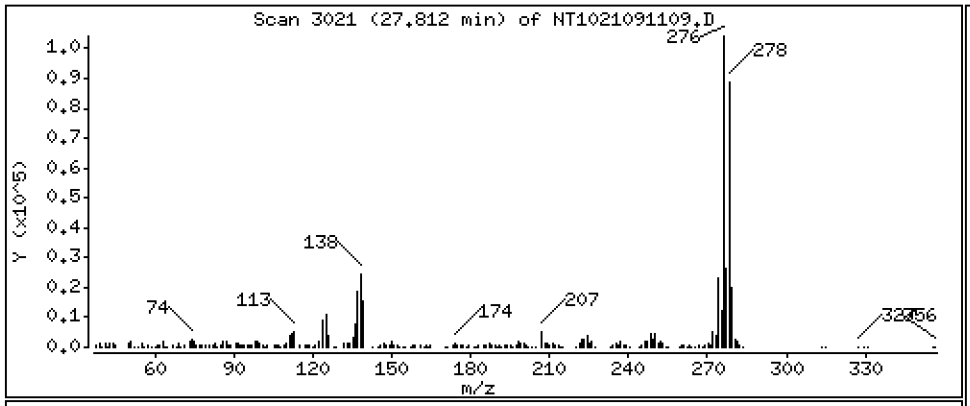
Operator: VTS

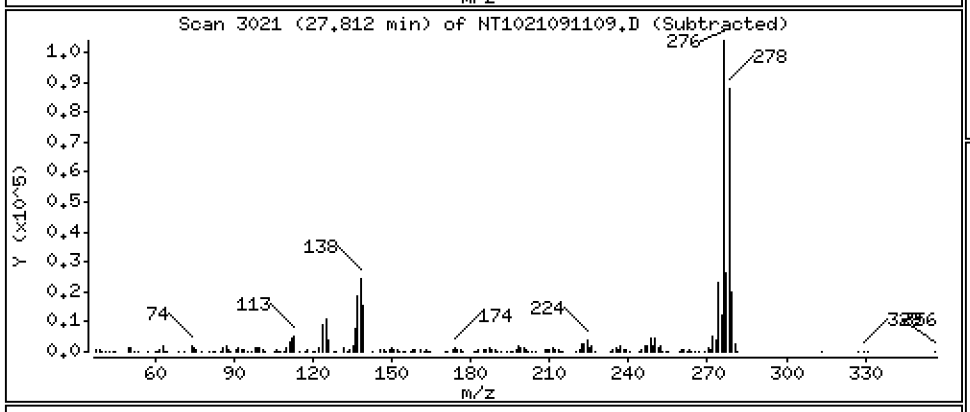
Column phase: ZB-5msi

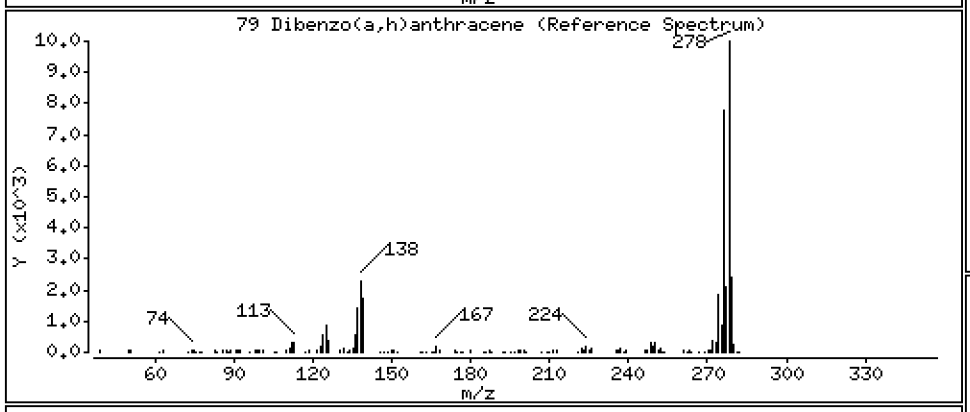
Column diameter: 0.25

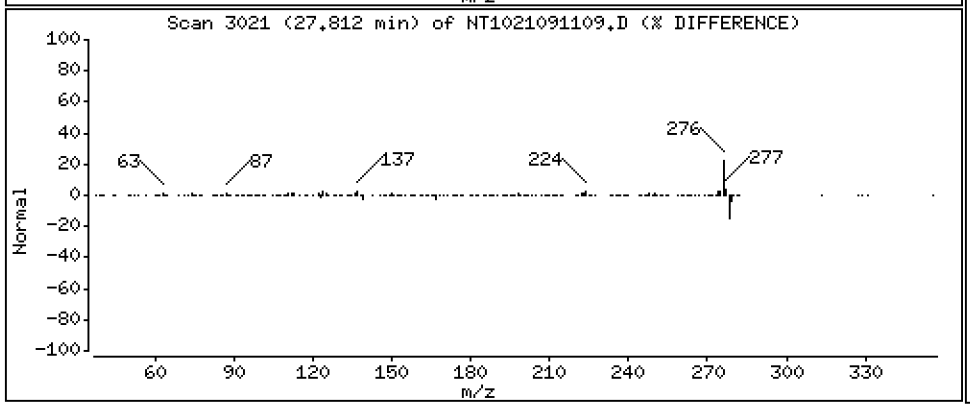
79 Dibenzo(a,h)anthracene

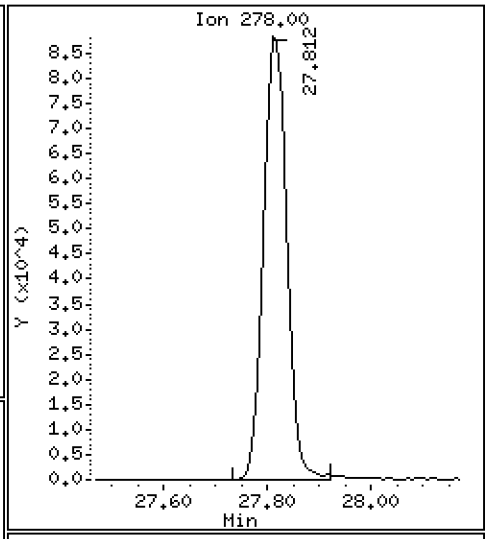
Concentration: 5.271 ug/mL

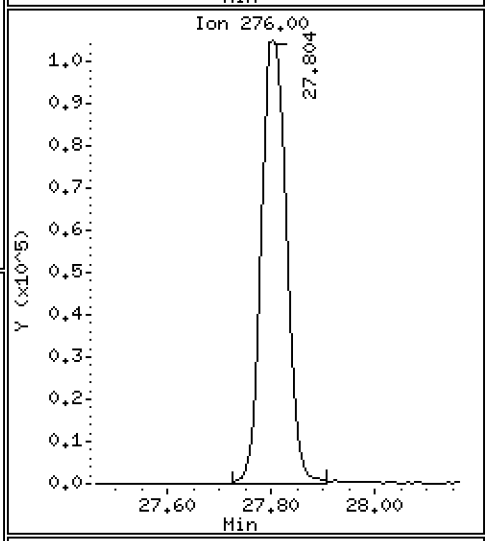


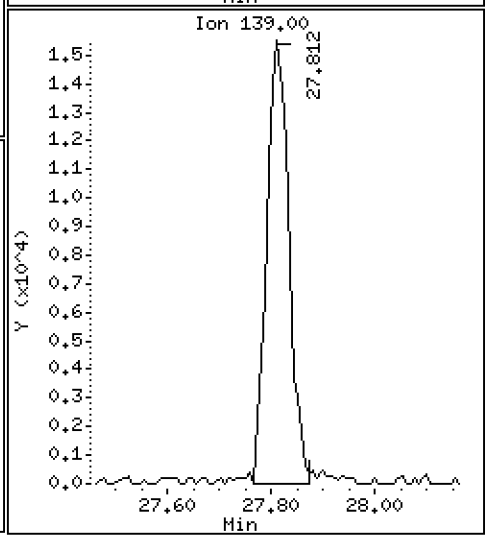












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

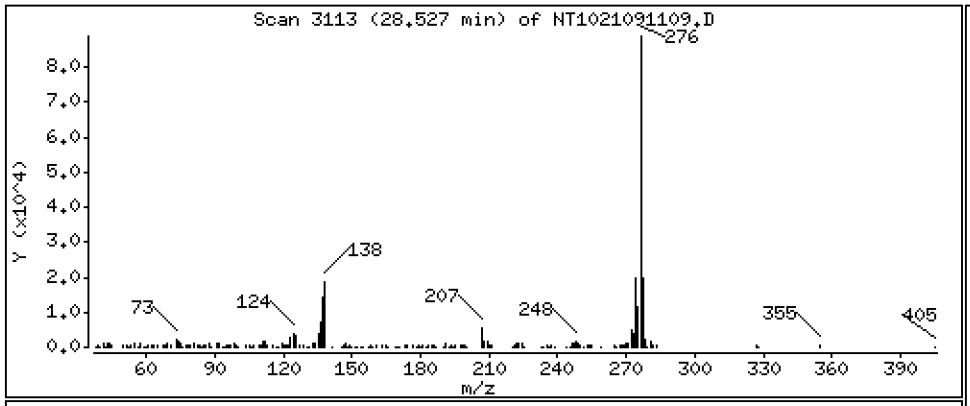
Operator: VTS

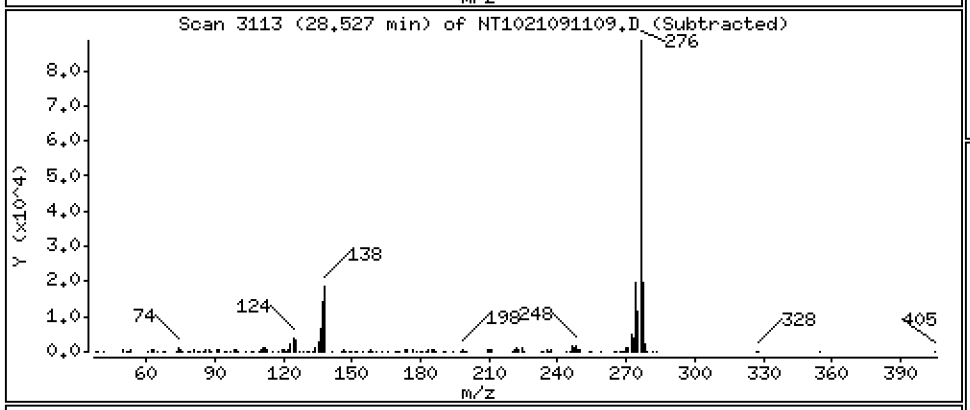
Column phase: ZB-5msi

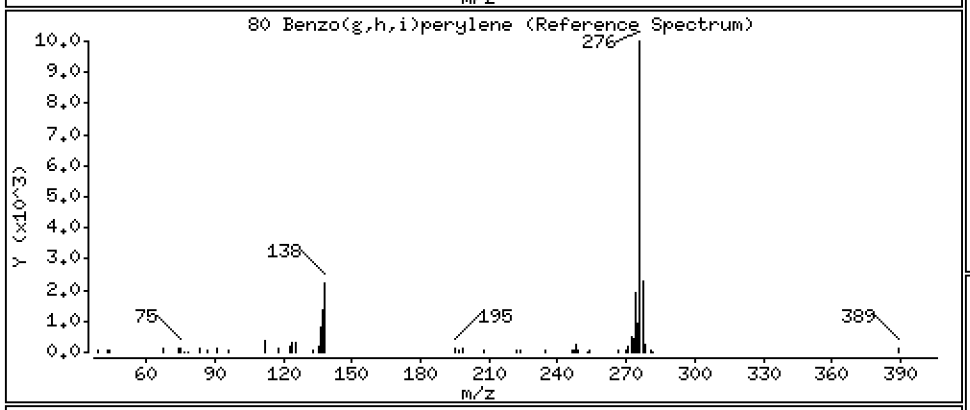
Column diameter: 0.25

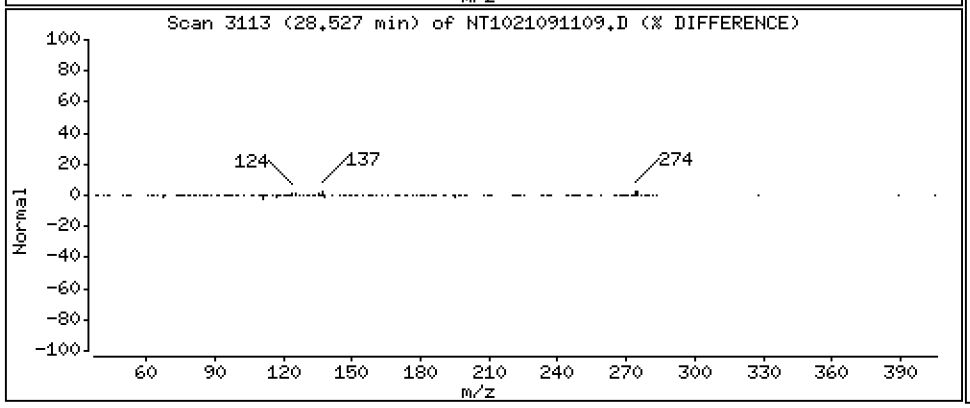
80 Benzo(g,h,i)perylene

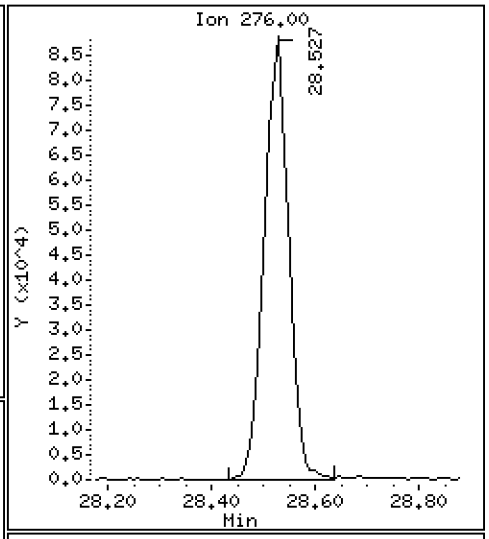
Concentration: 4.864 ug/mL

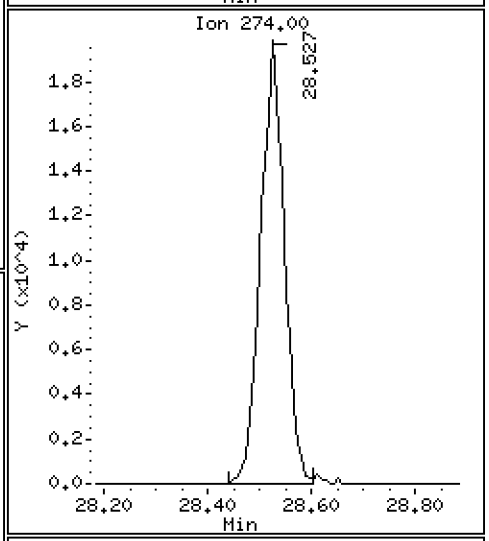


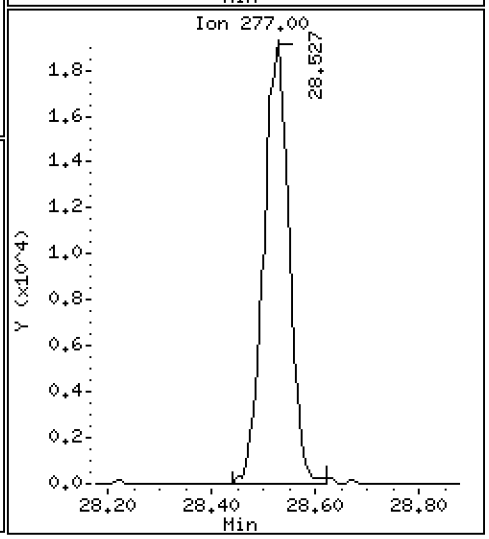












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Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

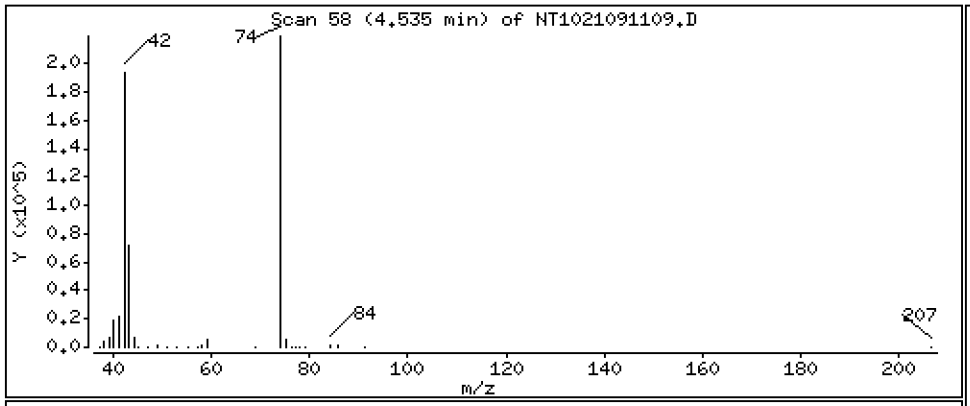
Operator: VTS

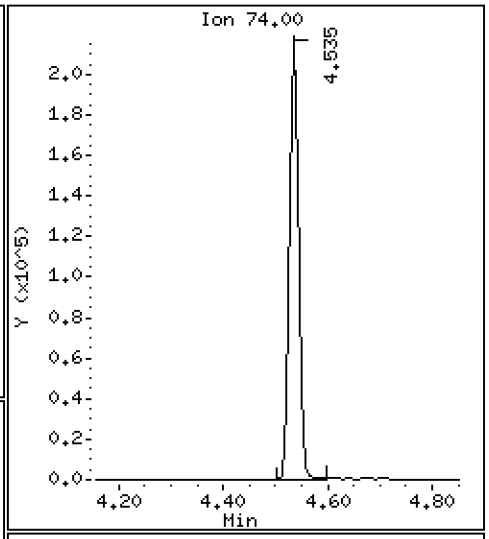
Column phase: ZB-5msi

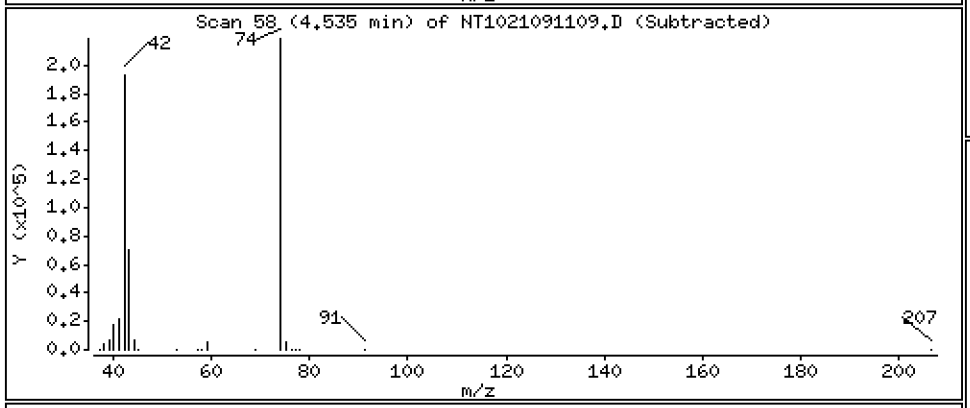
Column diameter: 0.25

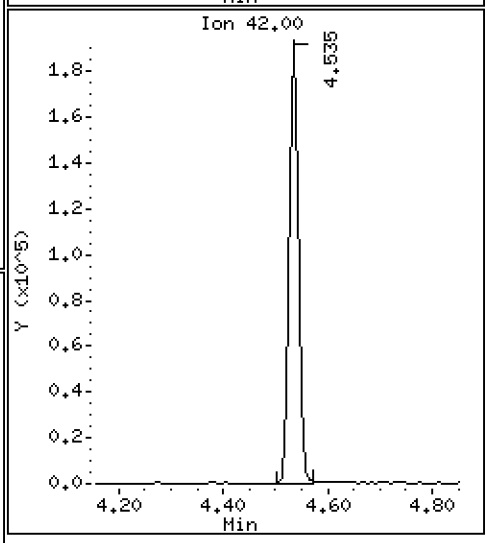
90 N-Nitrosodimethylamine

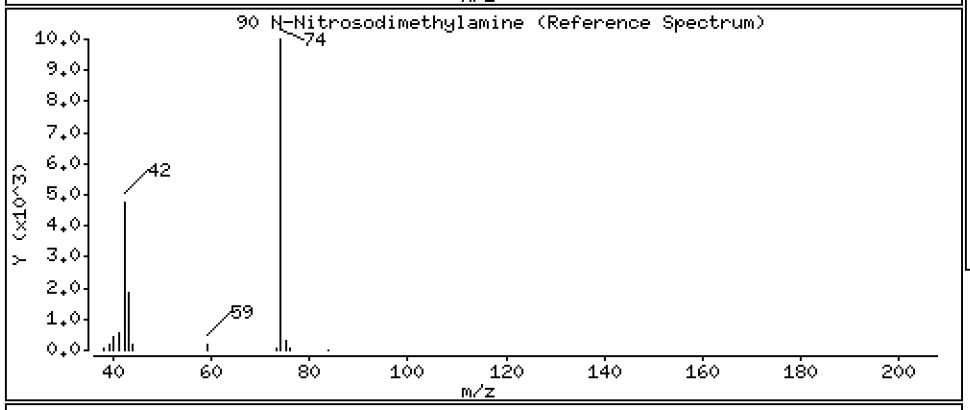
Concentration: 9.702 ug/mL

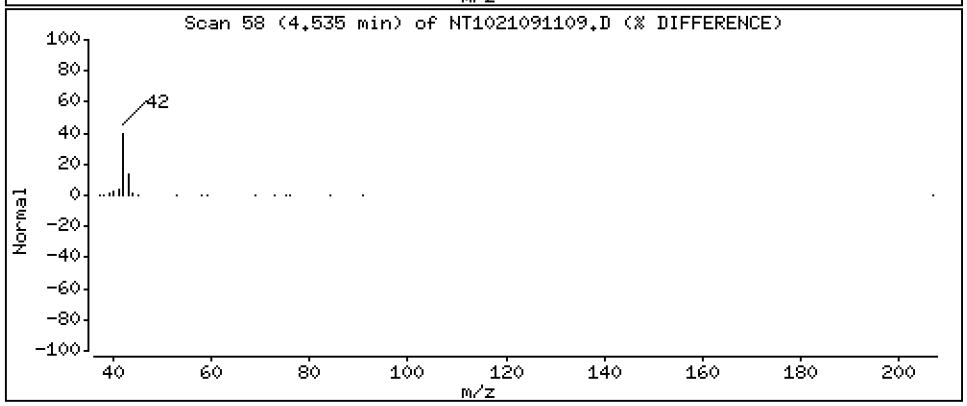












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

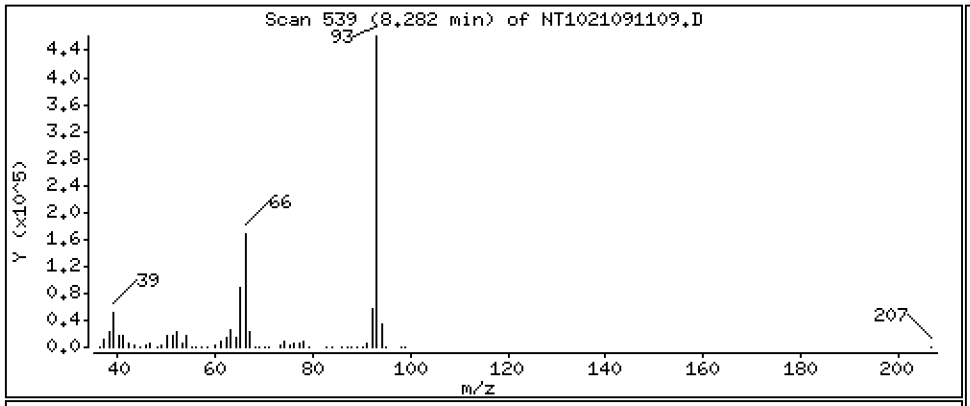
Operator: VTS

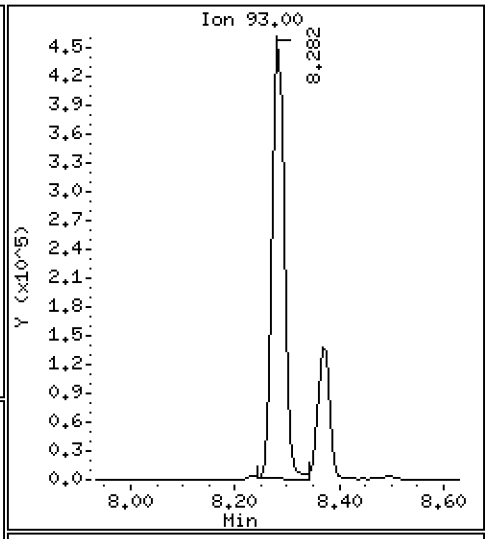
Column phase: ZB-5msi

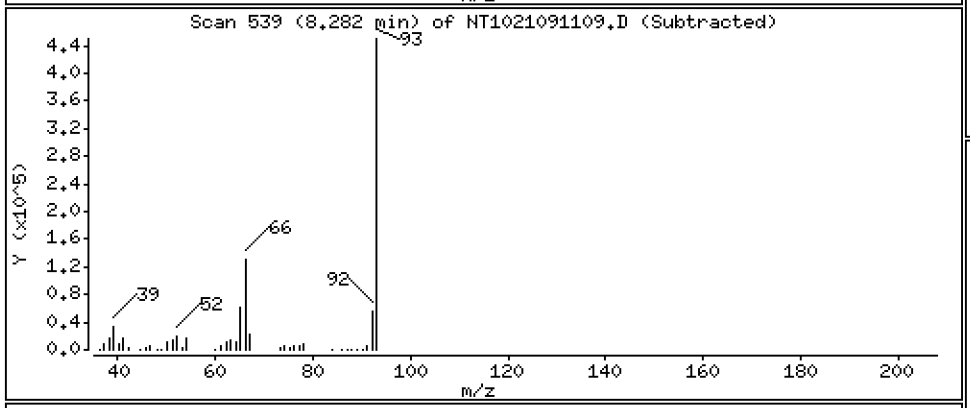
Column diameter: 0.25

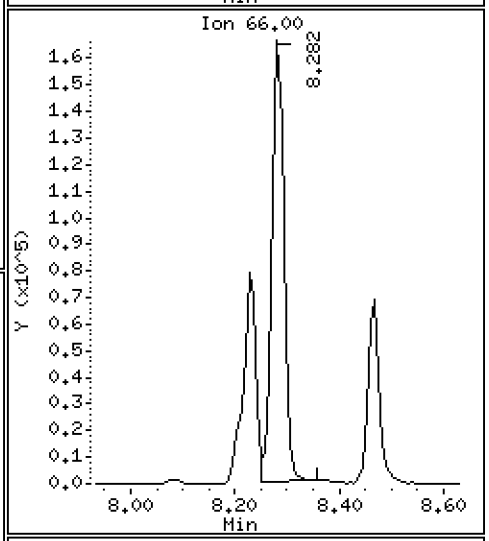
91 Aniline

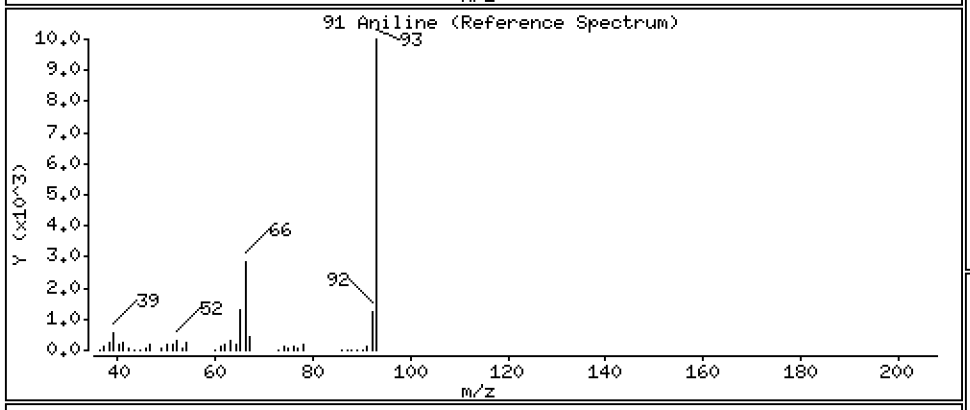
Concentration: 10.36 ug/mL

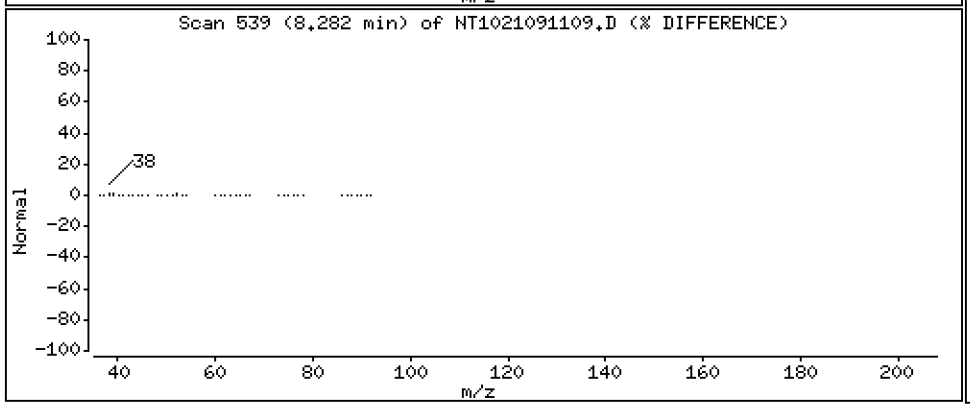


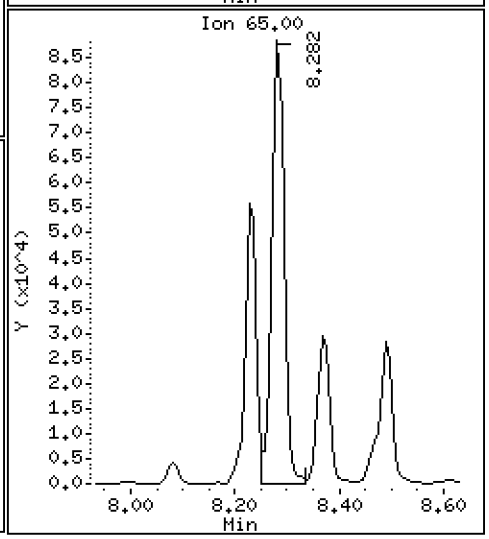












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

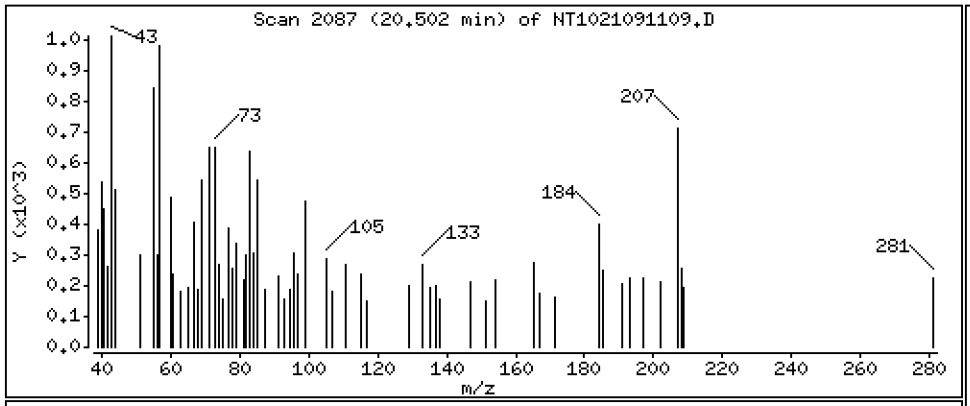
Operator: VTS

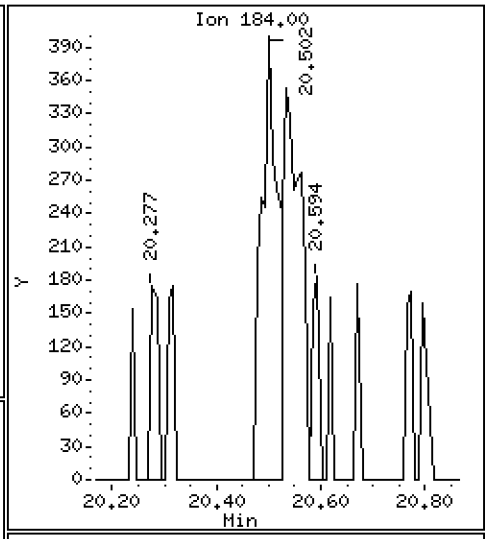
Column phase: ZB-5msi

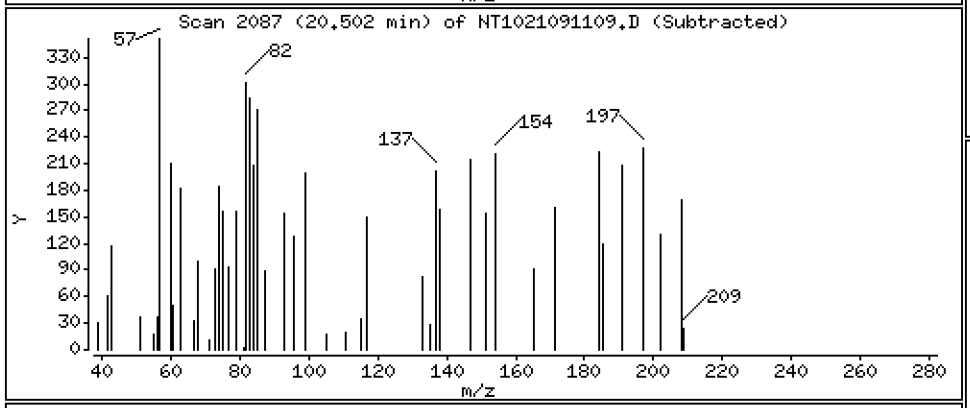
Column diameter: 0.25

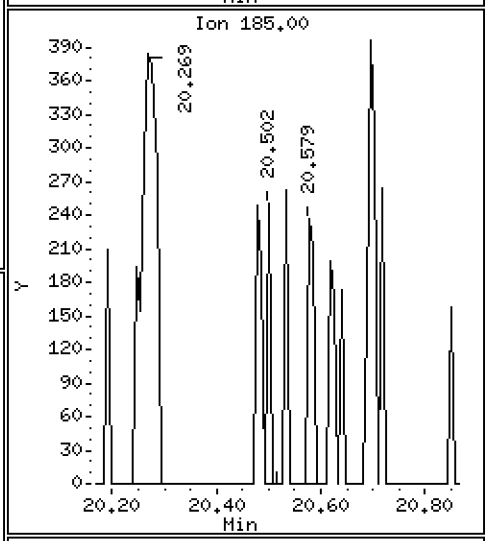
93 Benzidine

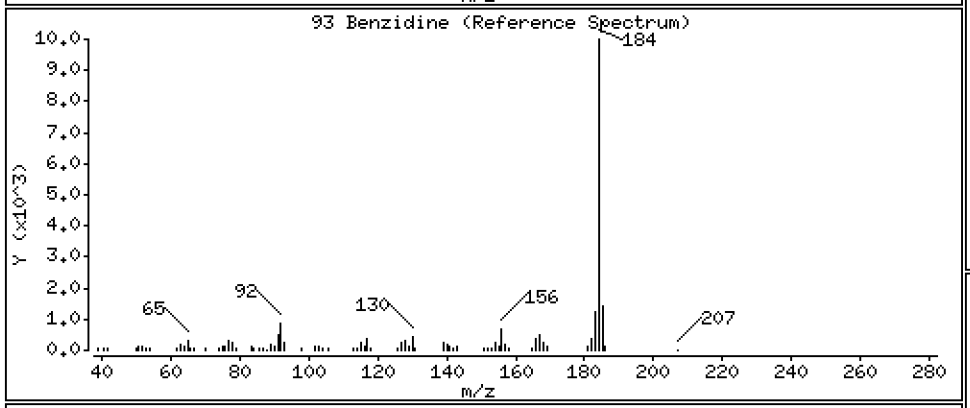
Concentration: 0.01903 ug/mL

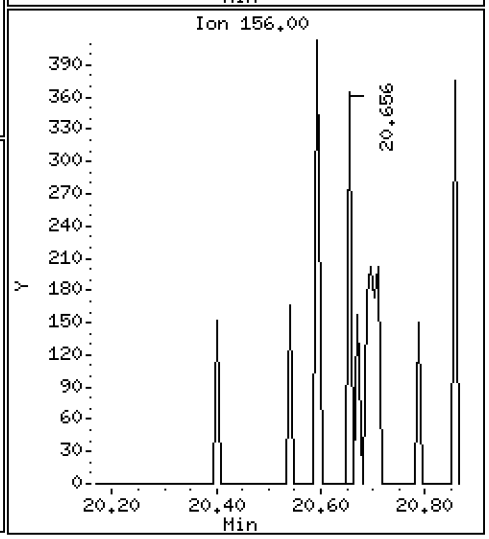


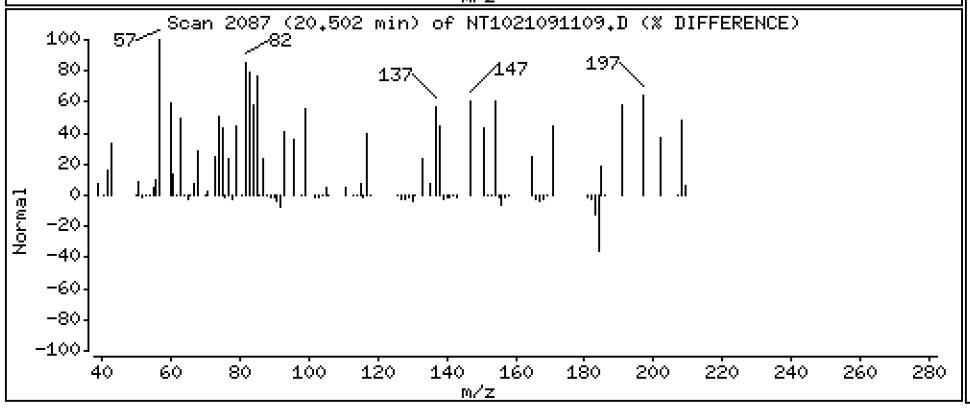












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

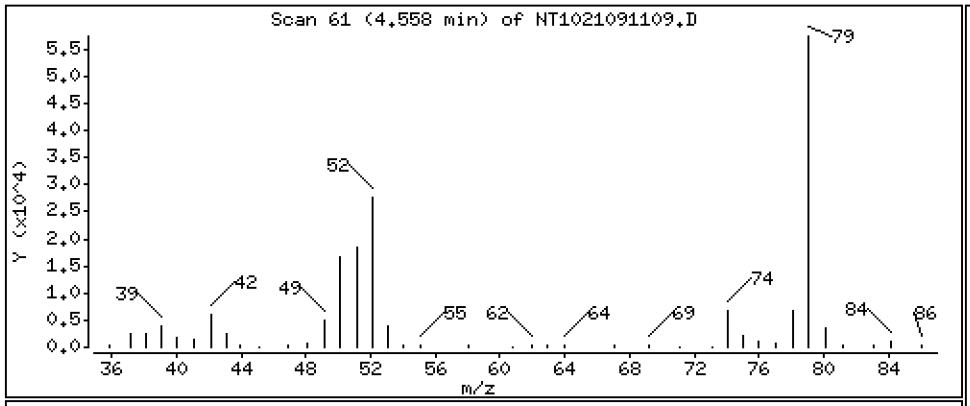
Operator: VTS

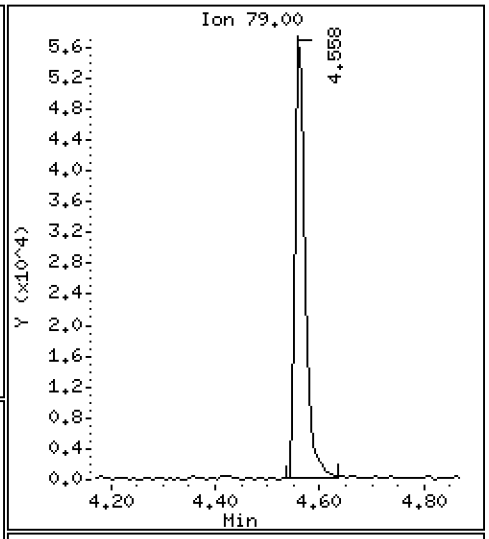
Column phase: ZB-5msi

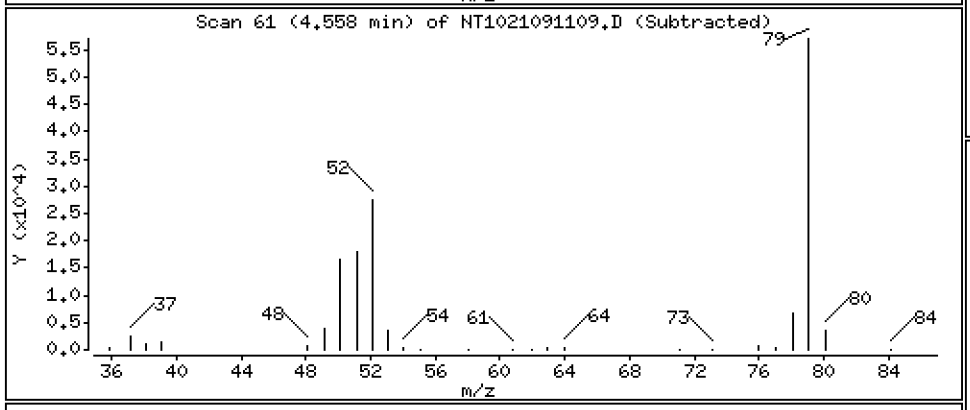
Column diameter: 0.25

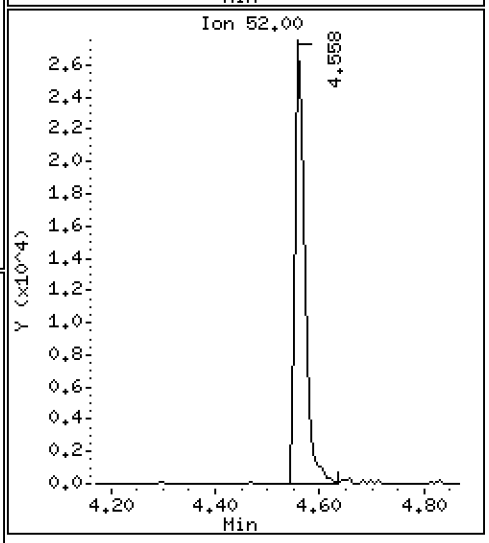
103 Pyridine

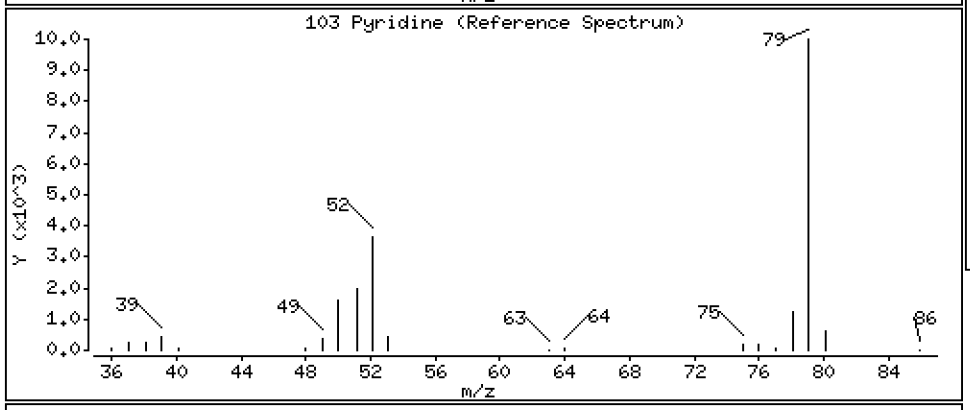
Concentration: 0.8886 ug/mL

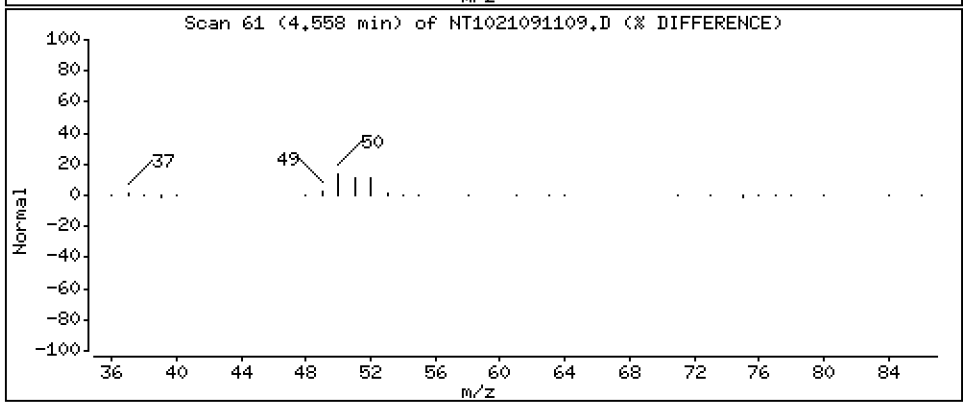












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

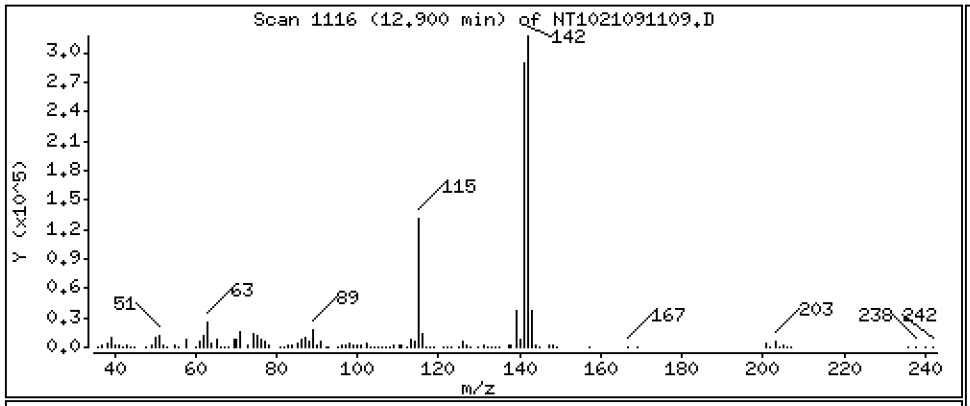
Operator: VTS

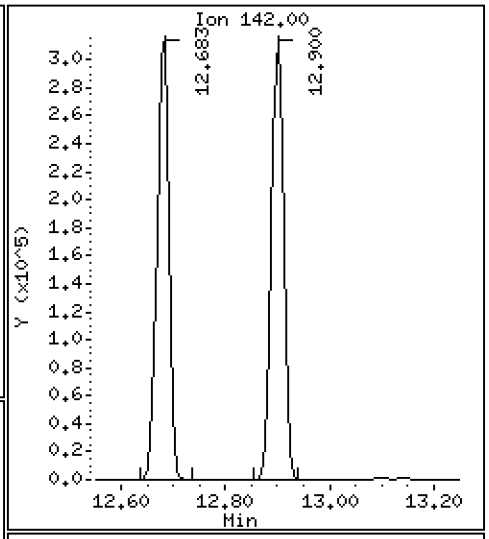
Column phase: ZB-5msi

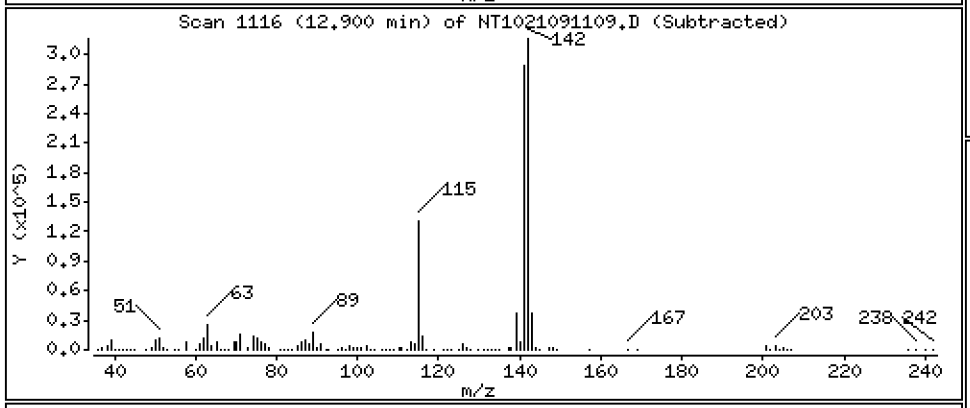
Column diameter: 0.25

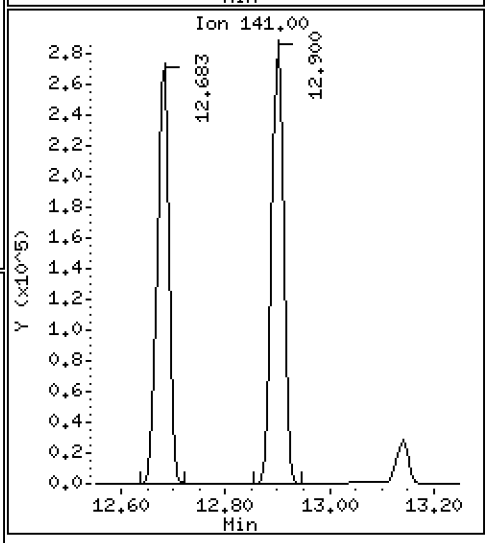
105 1-methylnaphthalene

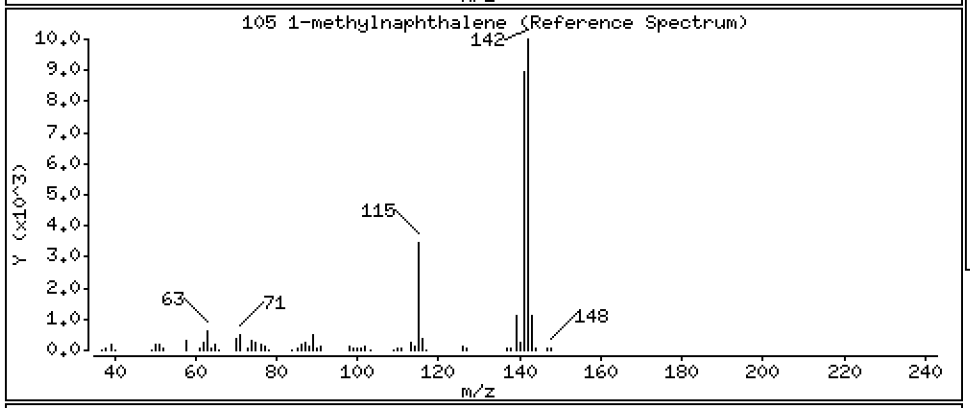
Concentration: 4.905 ug/mL

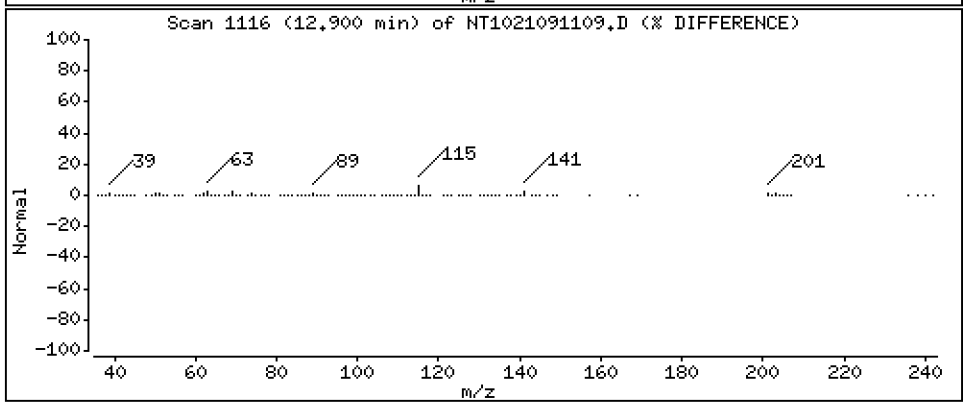












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

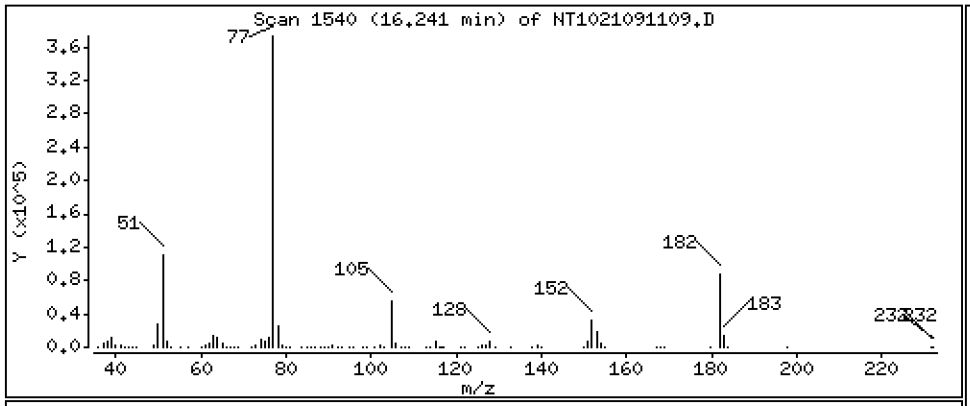
Operator: VTS

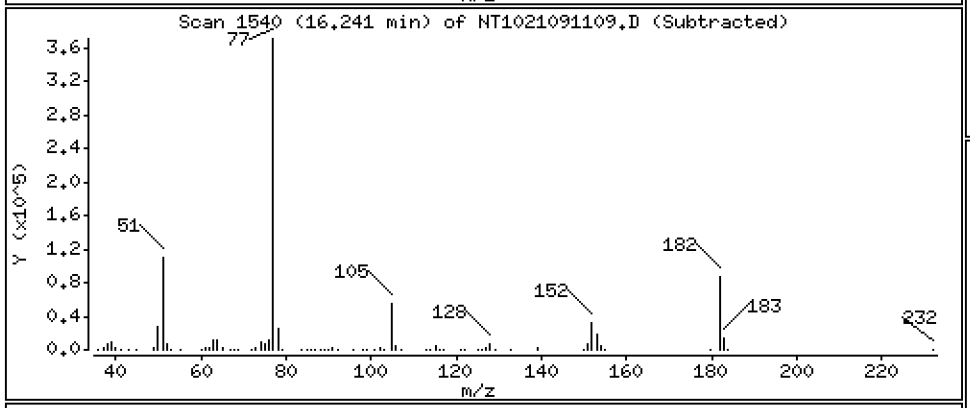
Column phase: ZB-5msi

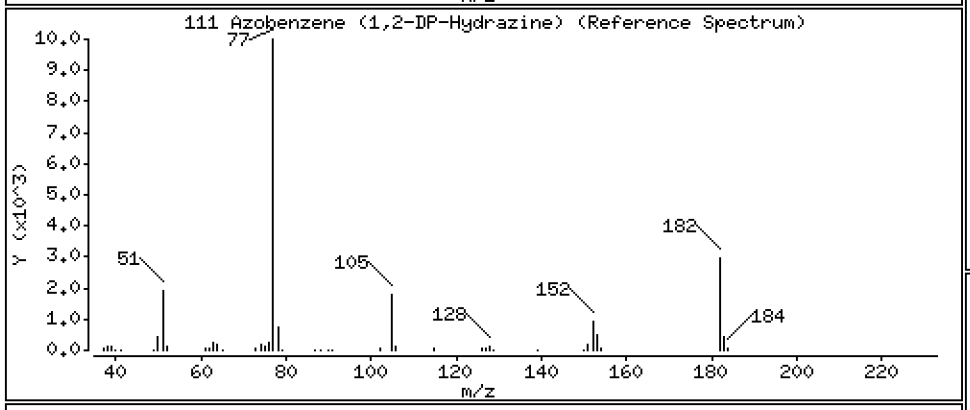
Column diameter: 0.25

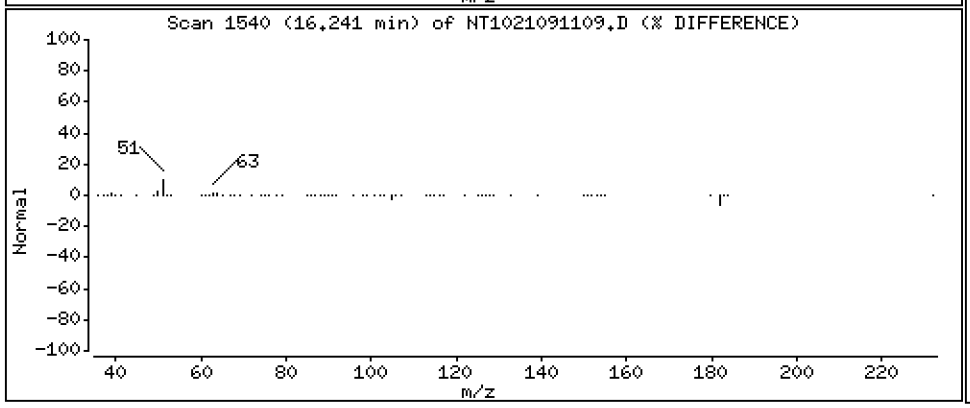
111 Azobenzene (1,2-DP-Hydrazine)

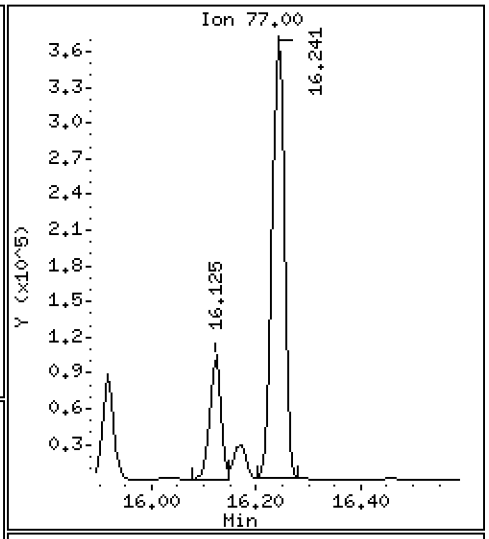
Concentration: 6.135 ug/mL

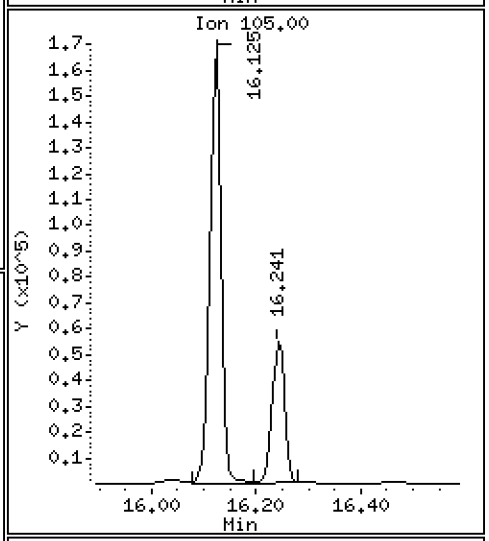


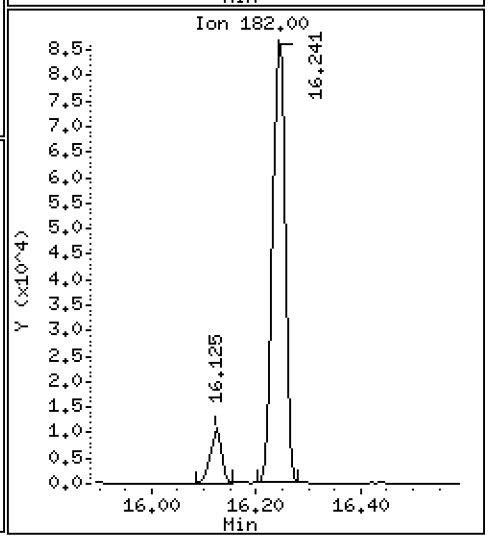












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

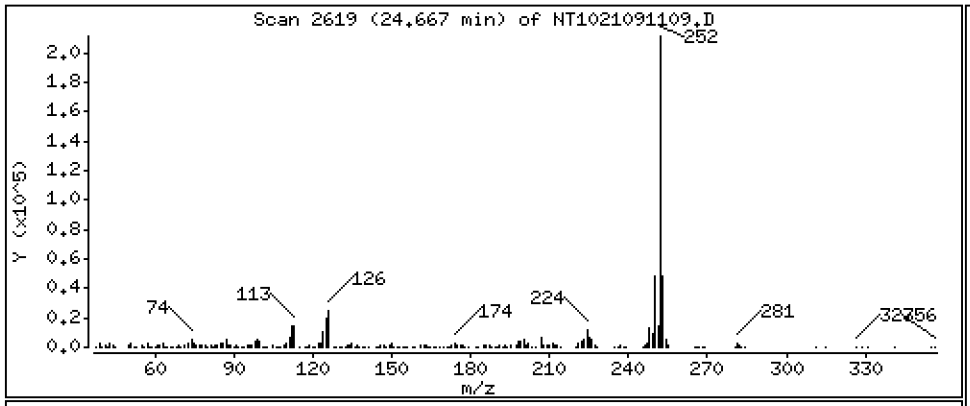
Client ID: Instrument: nt10.i

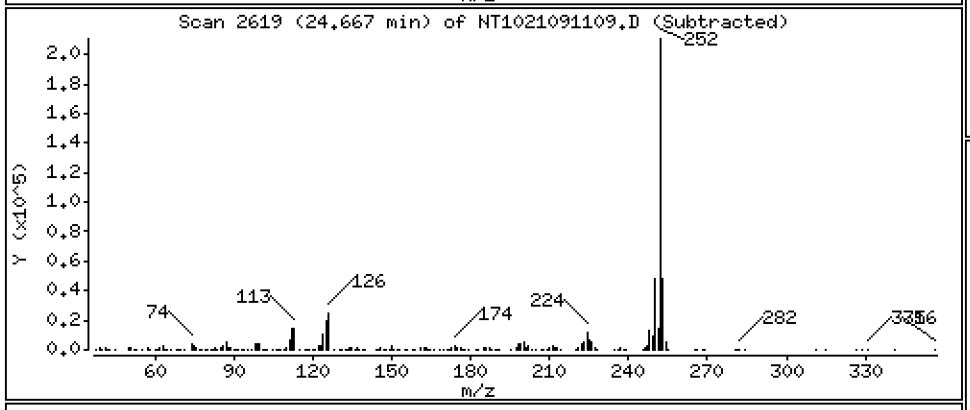
Sample Info: BJH0655-BSD1

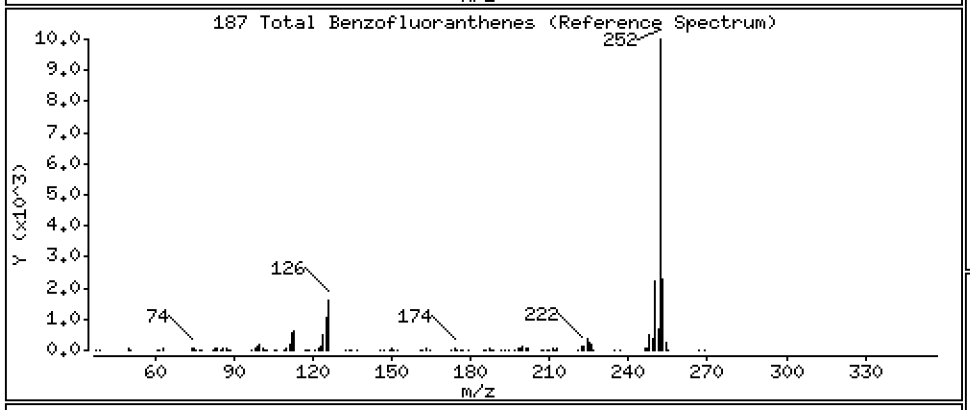
Operator: VTS

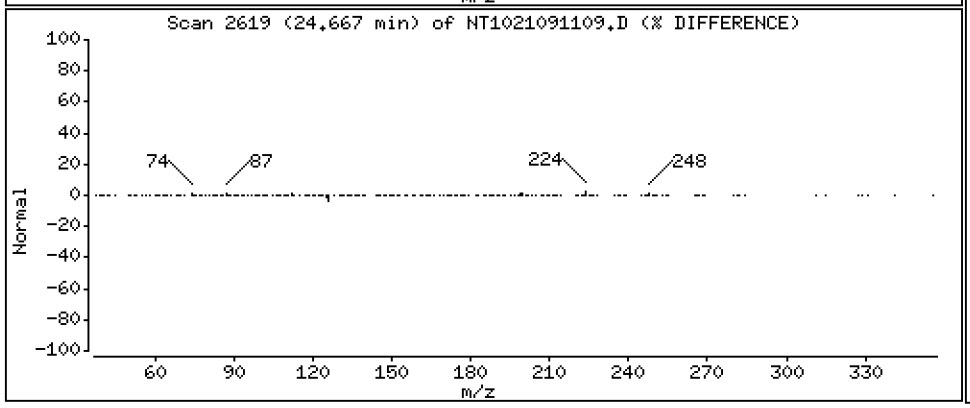
Column phase: ZB-5msi Column diameter: 0.25

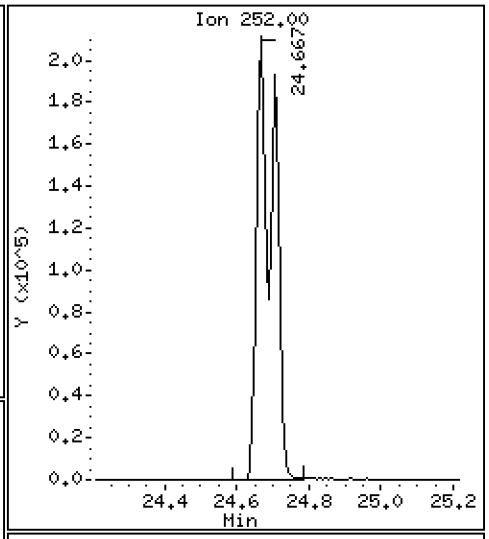
187 Total Benzofluoranthenes Concentration: 9.780 ug/mL

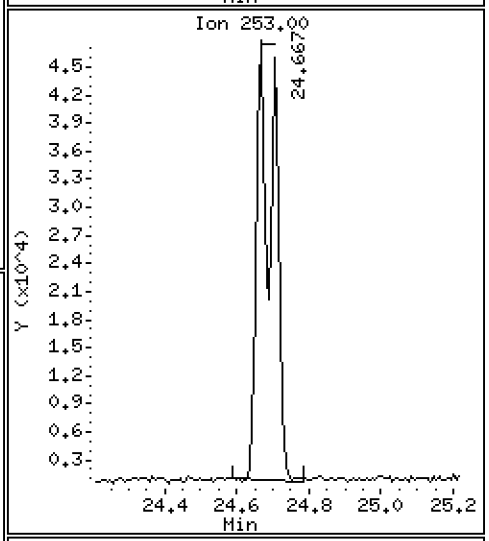


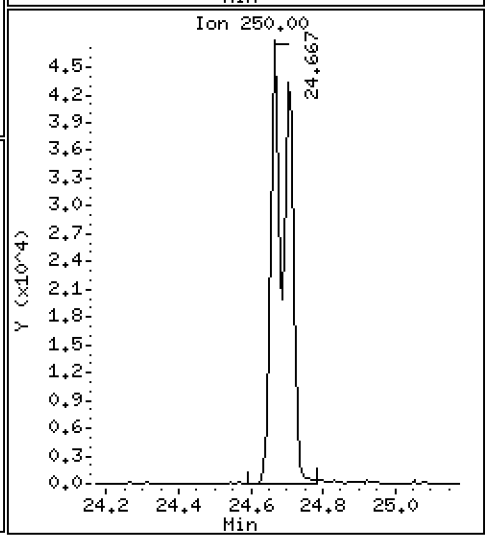












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D

Date : 11-SEP-2021 15:33

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-BSD1

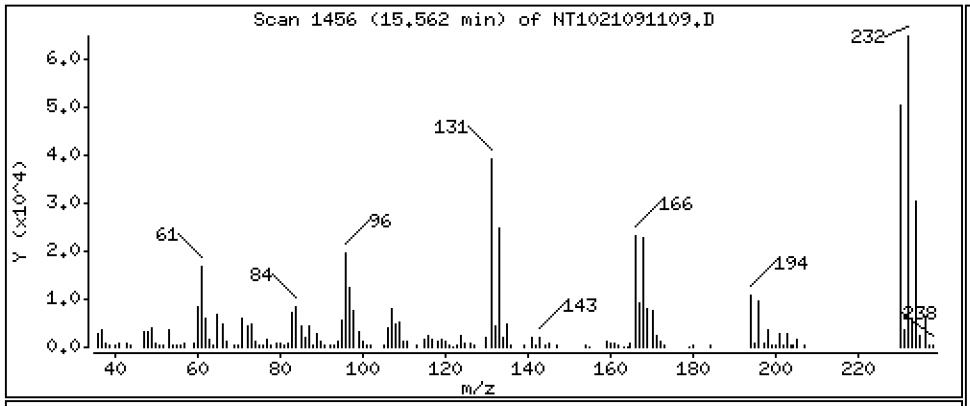
Operator: VTS

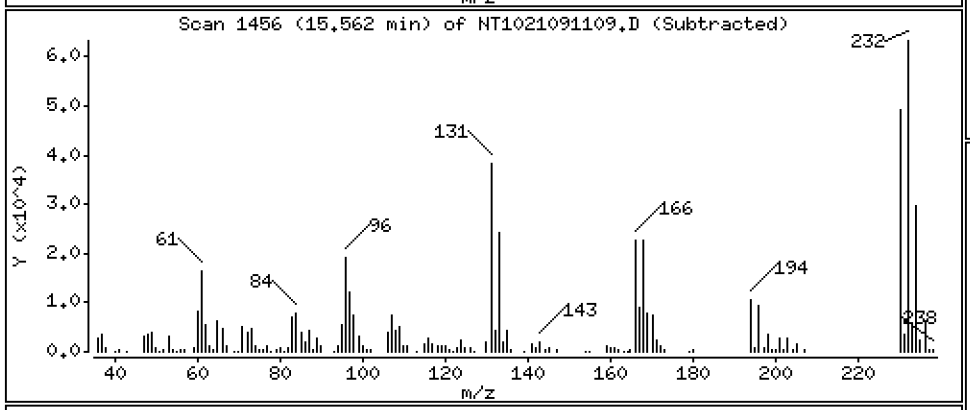
Column phase: ZB-5msi

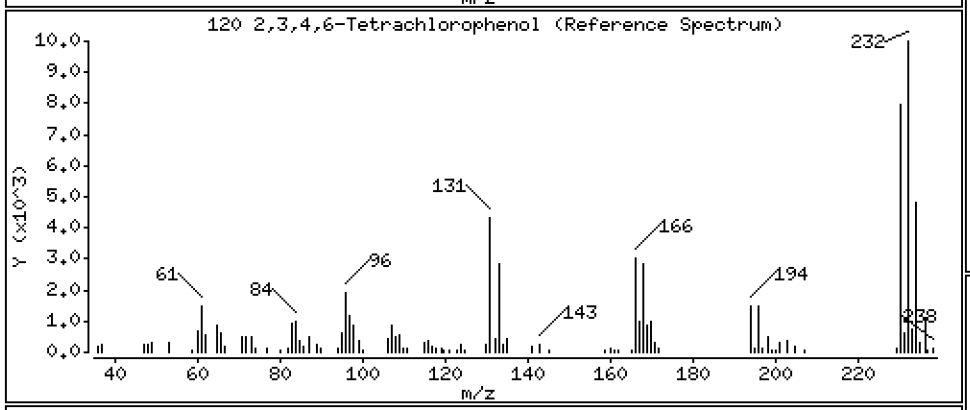
Column diameter: 0.25

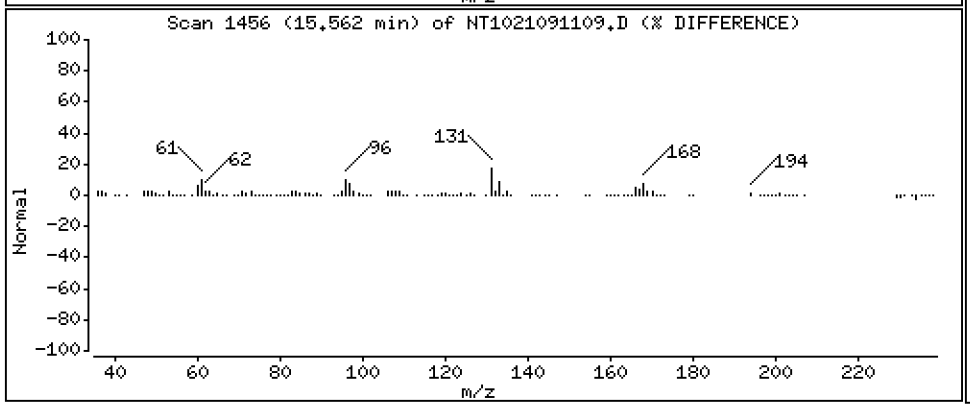
120 2,3,4,6-Tetrachlorophenol

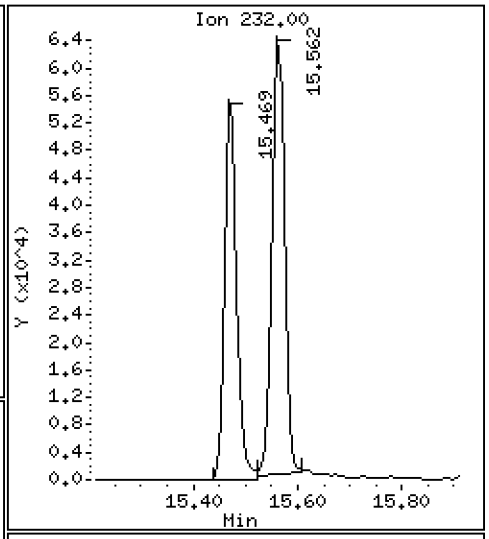
Concentration: 4.945 ug/mL

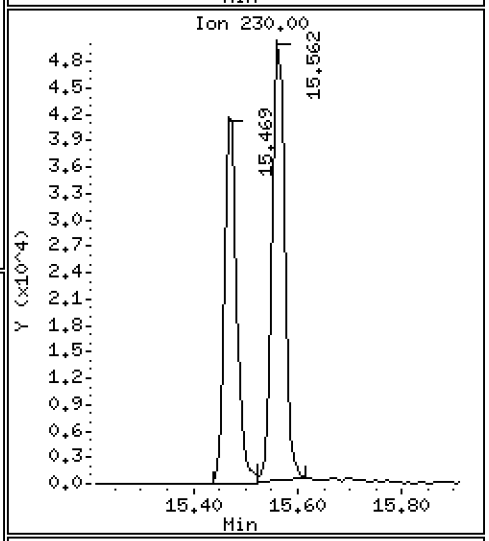


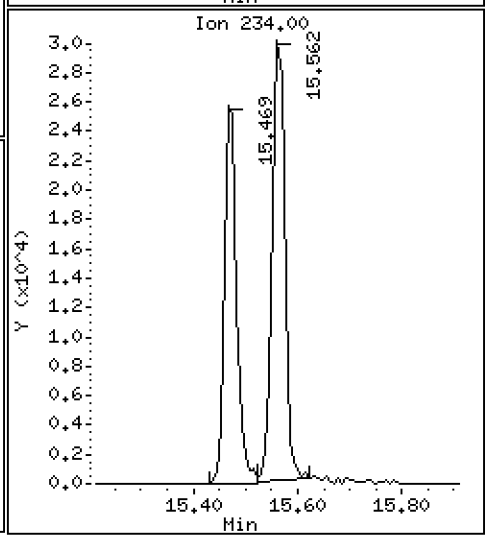












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091109.D
Lab Smp Id: BJH0655-BSD1
Inj Date : 11-SEP-2021 15:33
Operator : VTS Inst ID: nt10.i
Smp Info : BJH0655-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.643	6.635	(0.754)	332325	7.41112	7.411
$	2 Phenol-d5	99	8.212	8.204	(0.932)	509850	7.94418	7.944
	3 Phenol	94	8.227	8.227	(0.933)	270215	4.60016	4.600
$	5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	352531	7.71104	7.711
	4 Bis(2-Chloroethyl)ether	93	8.366	8.366	(0.949)	205567	4.78322	4.783
	6 2-Chlorophenol	128	8.490	8.490	(0.963)	219255	4.49831	4.498
	7 1,3-Dichlorobenzene	146	8.753	8.745	(0.993)	237454	4.68532	4.685
*	8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	134125	4.00000	
	9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	206662	5.38620	5.386
$	10 1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	148647	4.78657	4.787
	12 1,2-Dichlorobenzene	146	9.195	9.188	(1.043)	212110	4.85764	4.858
	11 Benzyl alcohol	108	9.087	9.087	(1.031)	110786	4.10015	4.100
	14 2,2'-oxybis(1-Chloropropane)	121	9.382	9.374	(1.064)	72375	5.58856	5.589
	13 2-Methylphenol	108	9.319	9.320	(1.057)	167815	4.51050	4.511
	17 Hexachloroethane	117	9.770	9.778	(1.108)	101837	6.13689	6.137
	16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	139799	5.35660	5.357
	15 4-Methylphenol	108	9.591	9.584	(1.088)	187960	4.72969	4.730
$	18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	282551	6.17745	6.177
	19 Nitrobenzene	77	9.925	9.925	(0.881)	263508	6.24864	6.249
	20 Isophorone	82	10.367	10.367	(0.921)	508972	7.80955	7.810
	21 2-Nitrophenol	139	10.545	10.545	(0.937)	136282	5.67460	5.675
	22 2,4-Dimethylphenol	107	10.613	10.605	(0.943)	580132	15.6536	15.65
	23 Bis(2-Chloroethoxy)methane	93	10.800	10.792	(0.959)	200629	5.21479	5.215
	24 Benzoic acid	105	10.834	10.834	(0.962)	452824	23.4141	23.41
	25 2,4-Dichlorophenol	162	11.003	11.004	(0.977)	553354	14.5692	14.57
	26 1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	171795	4.67332	4.673
*	27 Naphthalene-d8	136	11.260	11.260	(1.000)	436843	4.00000	
	28 Naphthalene	128	11.306	11.306	(1.004)	538625	4.97004	4.970
	29 4-Chloroaniline	127	11.437	11.437	(1.016)	623388	11.8724	11.87
	30 Hexachlorobutadiene	225	11.661	11.654	(1.036)	113127	5.59348	5.593
	31 4-Chloro-3-methylphenol	107	12.404	12.405	(1.102)	734236	19.2380	19.24
	32 2-Methylnaphthalene	142	12.683	12.675	(1.126)	506388	4.89634	4.896
	33 Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	277066	13.5831	13.58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	468336	16.9063	16.91
	35 2,4,5-Trichlorophenol	196	13.379	13.380	(0.902)	489421	16.8173	16.82
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	589319	5.39959	5.400
	37 2-Chloronaphthalene	162	13.666	13.658	(0.921)	483811	5.56832	5.568
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	499728	19.3704	19.37
	39 Dimethylphthalate	163	14.355	14.347	(0.968)	477190	5.32608	5.326
	40 Acenaphthylene	152	14.525	14.525	(0.979)	609588	4.50273	4.503
	41 2,6-Dinitrotoluene	165	14.494	14.486	(0.977)	357463	18.0660	18.07
*	42 Acenaphthene-d10	164	14.834	14.835	(1.000)	273178	4.00000	
	43 3-Nitroaniline	138	14.773	14.773	(0.996)	310050	11.6378	11.64
	44 Acenaphthene	153	14.896	14.896	(1.004)	358797	5.01055	5.011
	45 2,4-Dinitrophenol	184	14.989	14.982	(1.010)	294092	26.9347	26.93
	46 Dibenzofuran	168	15.221	15.221	(1.026)	586327	4.60781	4.608
	47 4-Nitrophenol	109	15.120	15.113	(1.019)	203742	20.9102	20.91
	48 2,4-Dinitrotoluene	165	15.290	15.291	(1.031)	489108	17.7083	17.71
	50 Diethylphthalate	149	15.793	15.793	(1.065)	468166	5.79712	5.797
	49 Fluorene	166	15.924	15.925	(1.073)	544523	4.82165	4.822
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	266804	5.27806	5.278
	52 4-Nitroaniline	138	16.032	16.025	(1.081)	357901	12.9201	12.92
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	560414	32.0042	32.00
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	347122	5.46859	5.469
$	55 2,4,6-Tribromophenol	330	16.456	16.457	(1.109)	94702	8.99874	8.999
	56 4-Bromophenyl-phenylether	248	16.911	16.912	(0.948)	157959	6.20846	6.208
	57 Hexachlorobenzene	284	17.220	17.221	(0.965)	132505	5.49385	5.494
	58 Pentachlorophenol	266	17.584	17.584	(0.986)	136671	14.7685	14.77
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	424380	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	515917	4.97938	4.979
	61 Anthracene	178	17.979	17.979	(1.008)	535743	4.81257	4.813
	62 Carbazole	167	18.311	18.312	(1.026)	562490	4.90609	4.906
	63 Di-n-butylphthalate	149	19.116	19.116	(1.072)	914419	6.44679	6.447
	64 Fluoranthene	202	20.269	20.269	(0.886)	788826	7.39894	7.399
	65 Pyrene	202	20.694	20.695	(0.904)	794927	7.26488	7.265
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	457978	6.66081	6.661
	67 Butylbenzylphthalate	149	21.918	21.918	(0.958)	308402	7.16151	7.162
	68 Benzo(a)anthracene	228	22.862	22.863	(0.999)	444517	5.22404	5.224
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	243562	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.824	22.824	(0.997)	409019	12.0818	12.08
	71 Chrysene	228	22.932	22.932	(1.002)	332994	4.93635	4.936
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	302284	5.71840	5.718
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	549269	4.00000	
	73 Di-n-octylphthalate	149	23.938	23.939	(1.000)	621317	5.13237	5.132
	74 Benzo(b)fluoranthene	252	24.666	24.674	(0.972)	392219	5.29048	5.290
	75 Benzo(k)fluoranthene	252	24.705	24.713	(0.974)	336038	4.62374	4.624
	76 Benzo(a)pyrene	252	25.270	25.270	(0.996)	318828	4.86828	4.868
*	77 Perylene-d12	264	25.371	25.379	(1.000)	201511	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.804	27.812	(1.096)	352914	5.21637	5.216
	79 Dibenzo(a,h)anthracene	278	27.811	27.819	(1.096)	272822	5.27087	5.271
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	287363	4.86374	4.864
	90 N-Nitrosodimethylamine	74	4.534	4.504	(0.514)	280176	9.70238	9.702
	91 Aniline	93	8.281	8.281	(0.939)	694703	10.3593	10.36
	93 Benzidine	184	20.501	20.517	(0.896)	878	0.01903	0.01903
	103 Pyridine	79	4.558	4.519	(0.517)	81068	0.88863	0.8886
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	489342	4.90533	4.905
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.240	16.241	(1.095)	571681	6.13495	6.135

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.666	24.713	(0.972)	691706	9.77973	9.780
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	99529	4.94453	4.945

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091109.D
Lab Smp Id: BJH0655-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	134125	-2.60
27 Naphthalene-d8	447216	223608	894432	436843	-2.32
42 Acenaphthene-d10	264765	132383	529530	273178	3.18
59 Phenanthrene-d10	428682	214341	857364	424380	-1.00
69 Chrysene-d12	221118	110559	442236	243562	10.15
134 Di-n-octylphthala	404470	202235	808940	549269	35.80
77 Perylene-d12	154408	77204	308816	201511	30.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	-0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	-0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.83	-0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	-0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	-0.00
77 Perylene-d12	25.38	24.88	25.88	25.37	-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 - NT1021091109.D

Lab ID: BJH0655-BSD1
nt10.i, ABN.m, 11-SEP-2021 15:33

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1021091106.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW20-IT384

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	09/11/21 17:27
Batch:	BJH0655	Laboratory ID:	BJH0655-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.12 g / 1 mL	Source Sample:	LDW20-IT384

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Naphthalene	500	ND	H, U	374		74.8	43 - 120
2-Methylnaphthalene	500	ND	H, U	358		71.6	43 - 120
Acenaphthylene	500	ND	H, U	349		69.8	42 - 120
Acenaphthene	500	ND	H, U	386		77.3	45 - 120
Fluorene	500	ND	H, U	443		88.5	45 - 120
Phenanthrene	500	17.9	H, J	405		77.4	49 - 120
Anthracene	500	ND	H, U	385		77.0	45 - 120
Fluoranthene	500	48.5	H, Q	576	Q	106	53 - 145
Pyrene	500	39.9	H	497		91.4	52 - 134
Benzo(a)anthracene	500	16.3	H, J	399		76.6	49 - 120
Chrysene	500	18.9	H, J	420		80.3	47 - 120
Benzofluoranthenes, Total	1000	ND	H, U	752		75.2	30 - 160
Benzo(a)pyrene	500	18.7	H, J	359		68.0	42 - 120
Indeno(1,2,3-cd)pyrene	500	15.1	H, J	400		77.0	42 - 163
Dibenzo(a,h)anthracene	500	ND	H, U	419		83.7	30 - 133
Benzo(g,h,i)perylene	500	18.2	H, J	363		68.9	46 - 148

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW20-IT384

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	09/11/21 18:05
Batch:	BJH0655	Laboratory ID:	BJH0655-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.12 g / 1 mL	Source Sample:	LDW20-IT384

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Naphthalene	500	451		90.3	18.8	30	43 - 120
2-Methylnaphthalene	500	425		85.1	17.2	30	43 - 120
Acenaphthylene	500	418		83.7	18.0	30	42 - 120
Acenaphthene	500	466		93.2	18.7	30	45 - 120
Fluorene	500	462		92.3	4.21	30	45 - 120
Phenanthrene	500	483		93.0	17.6	30	49 - 120
Anthracene	500	459		91.8	17.5	30	45 - 120
Fluoranthene	500	623	Q	115	7.72	30	53 - 145
Pyrene	500	567		105	13.1	30	52 - 134
Benzo(a)anthracene	500	456		88.0	13.3	30	49 - 120
Chrysene	500	487		93.6	14.6	30	47 - 120
Benzofluoranthenes, Total	1000	906		90.6	18.5	30	30 - 160
Benzo(a)pyrene	500	436		83.4	19.4	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	474		91.7	16.9	30	42 - 163
Dibenzo(a,h)anthracene	500	497		99.3	17.1	30	30 - 133
Benzo(g,h,i)perylene	500	422		80.7	15.0	30	46 - 148

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

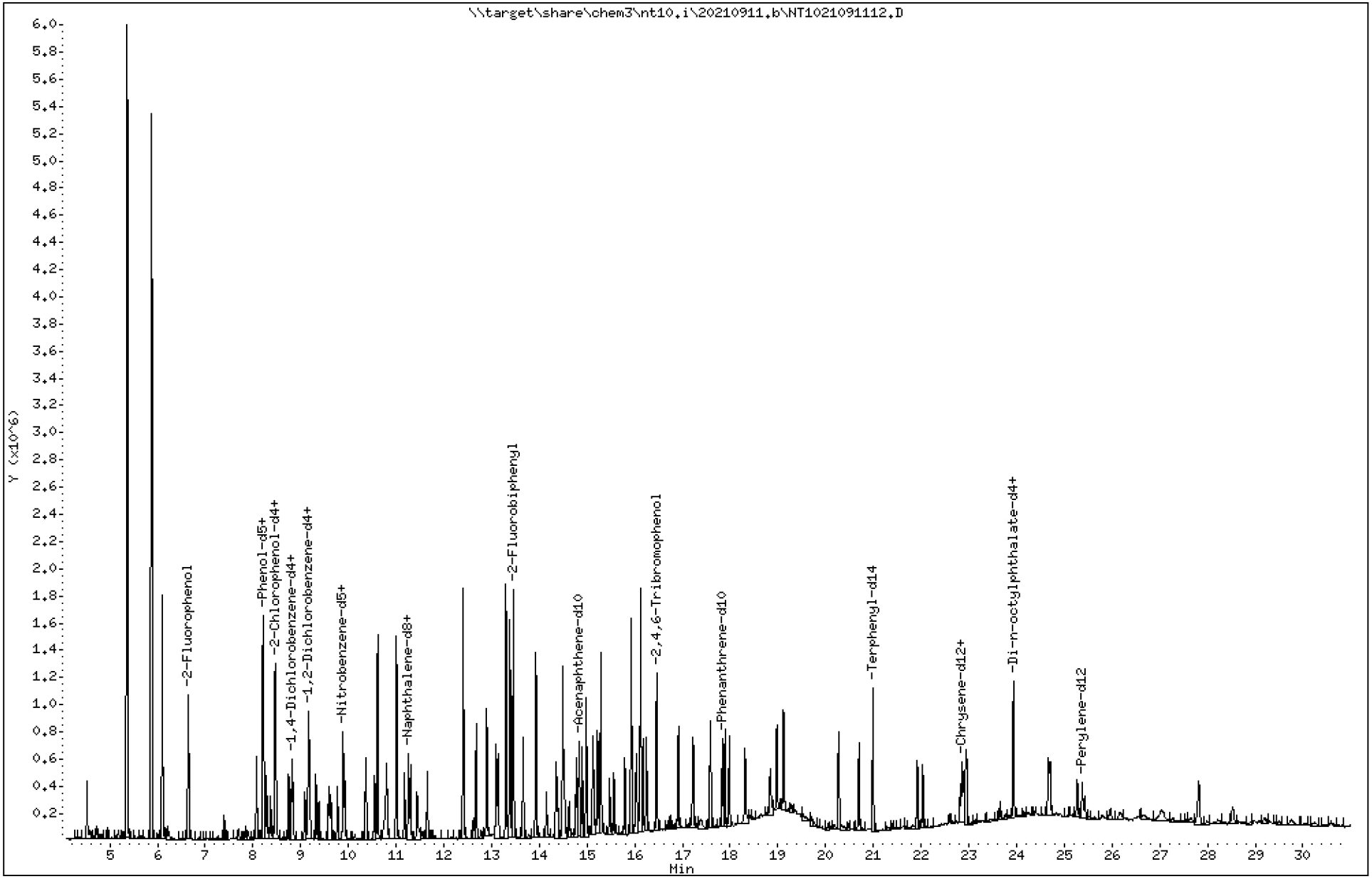
Instrument: nt10.i

Sample Info: BJH0655-MS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

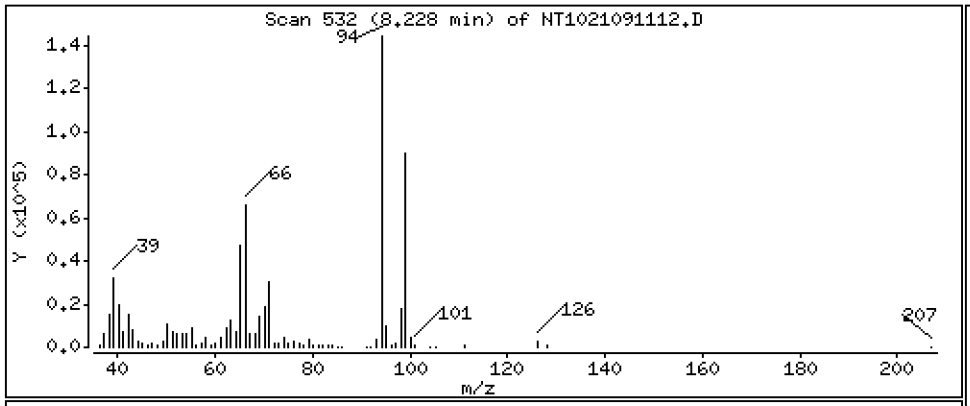
Operator: VTS

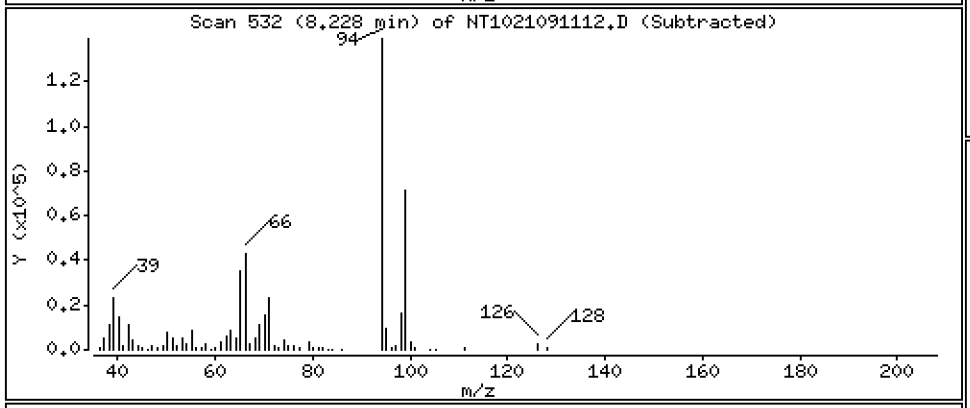
Column phase: ZB-5msi

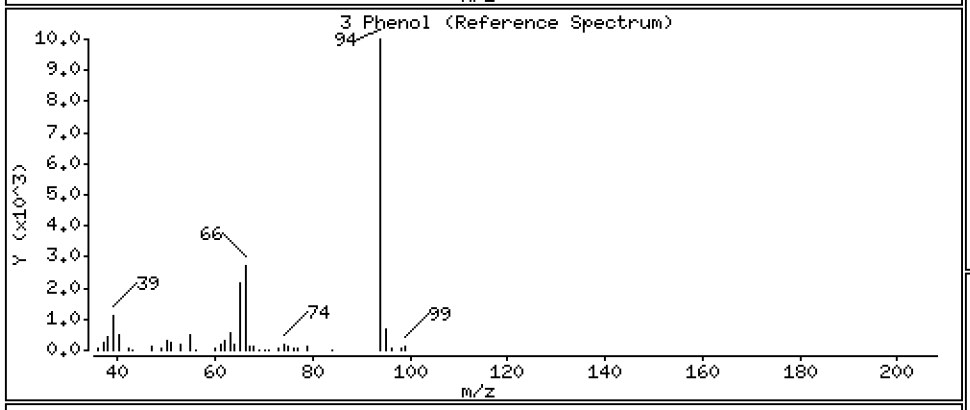
Column diameter: 0.25

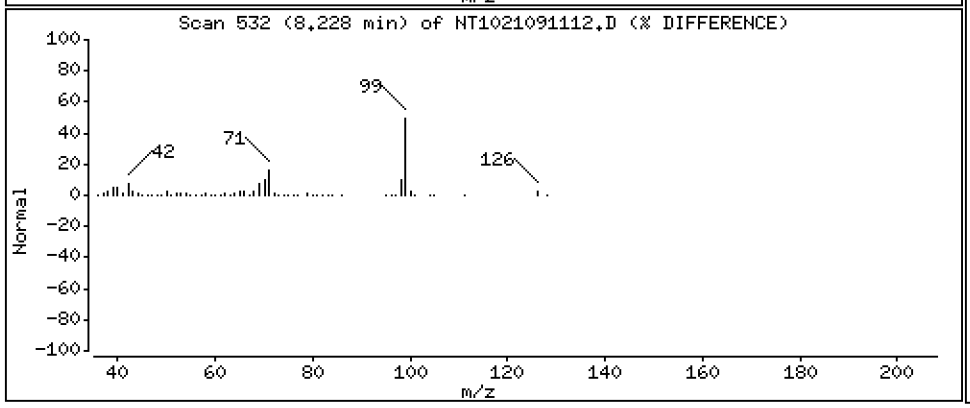
3 Phenol

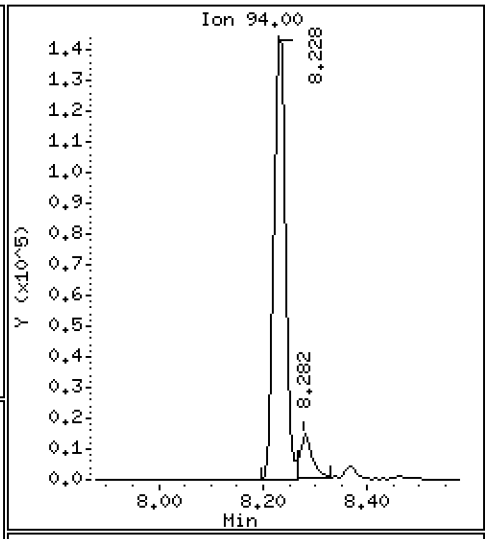
Concentration: 3.561 ug/mL

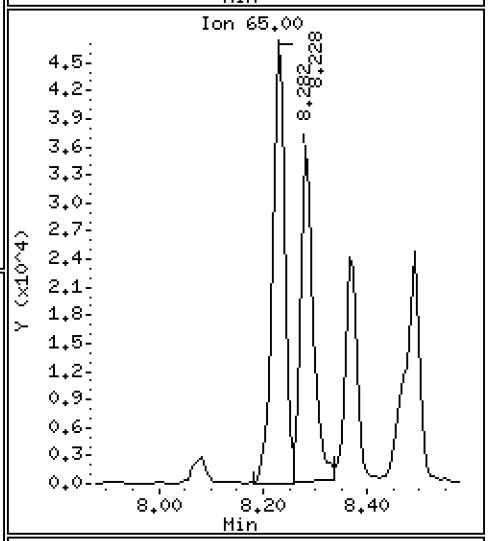


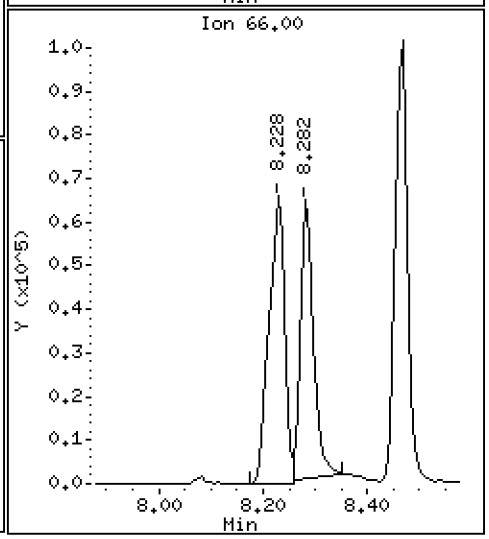












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

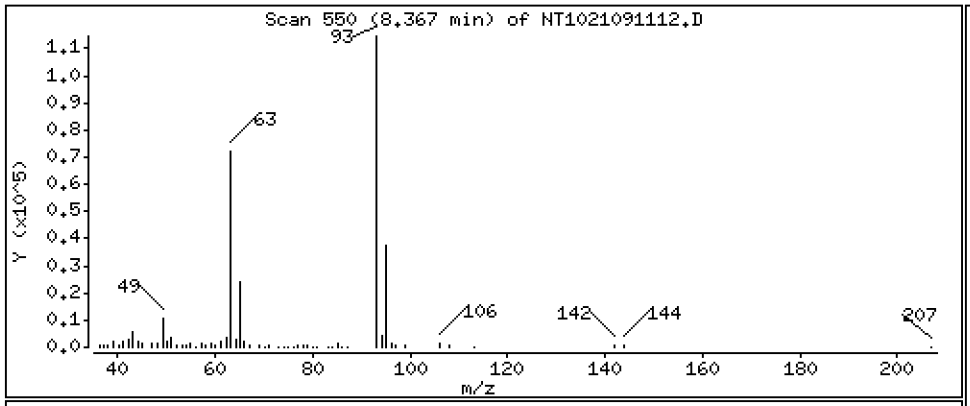
Operator: VTS

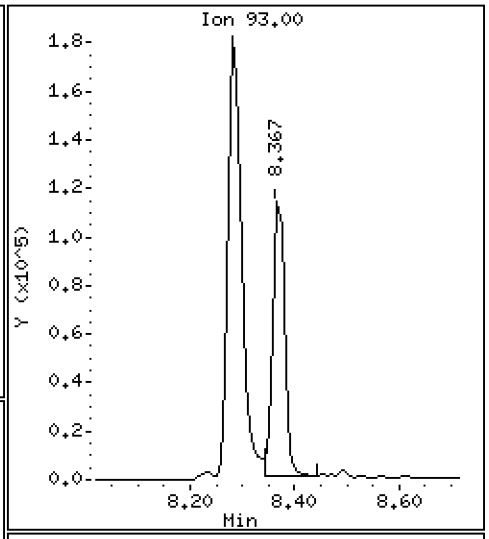
Column phase: ZB-5msi

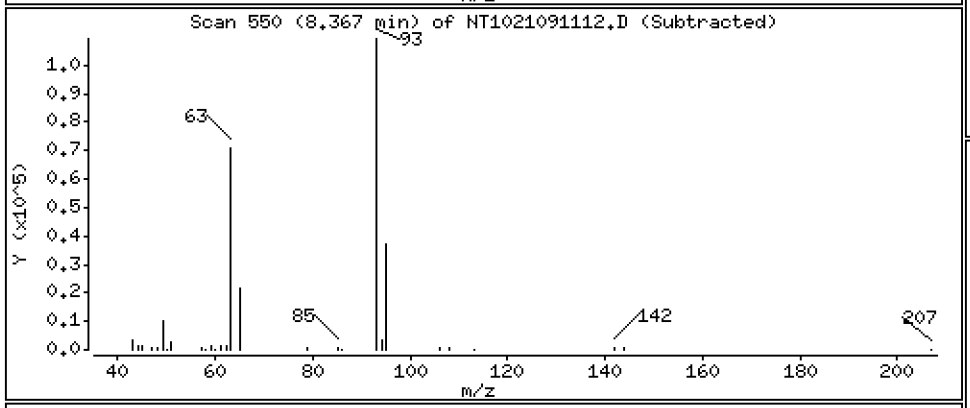
Column diameter: 0.25

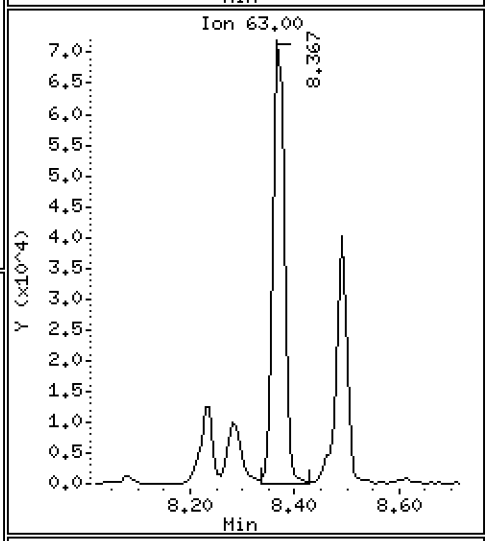
4 Bis(2-Chloroethyl)ether

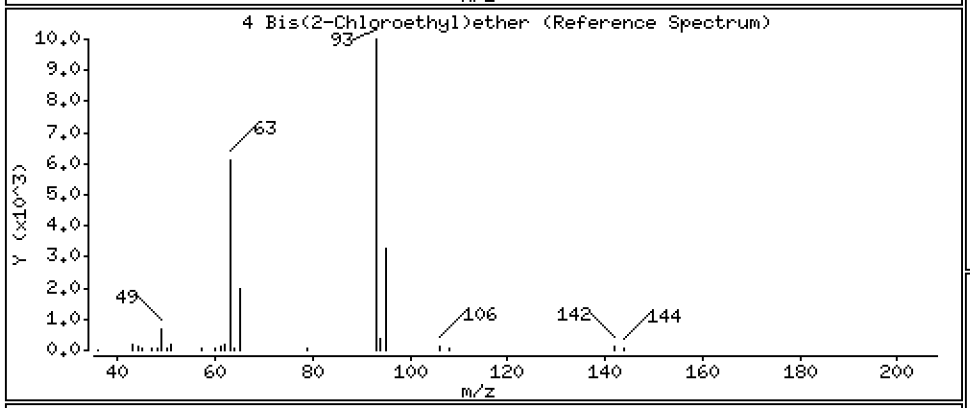
Concentration: 3.831 ug/mL

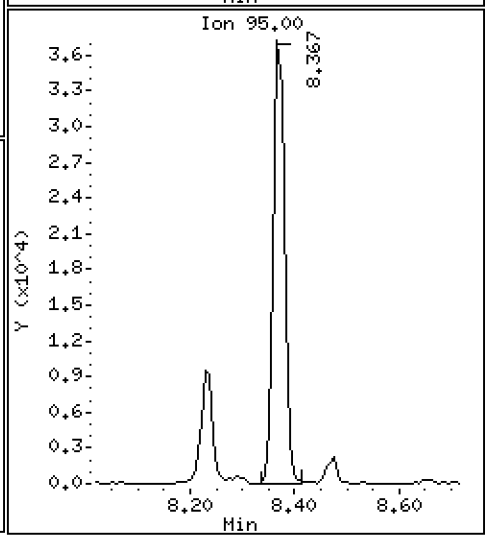


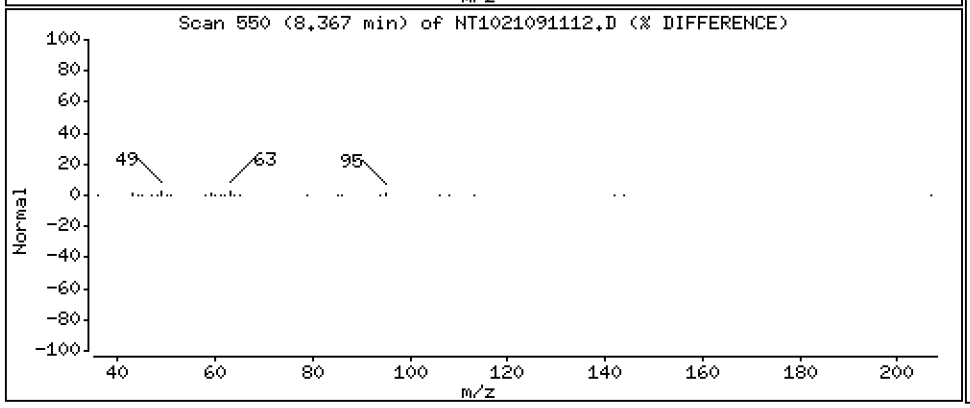












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

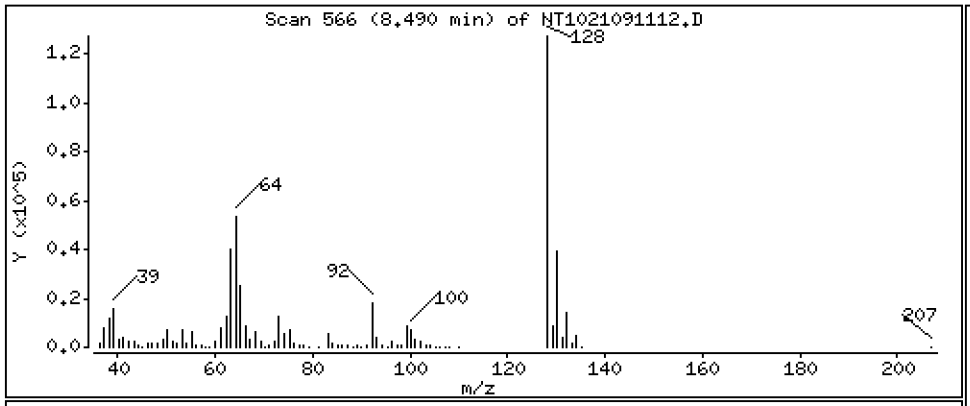
Operator: VTS

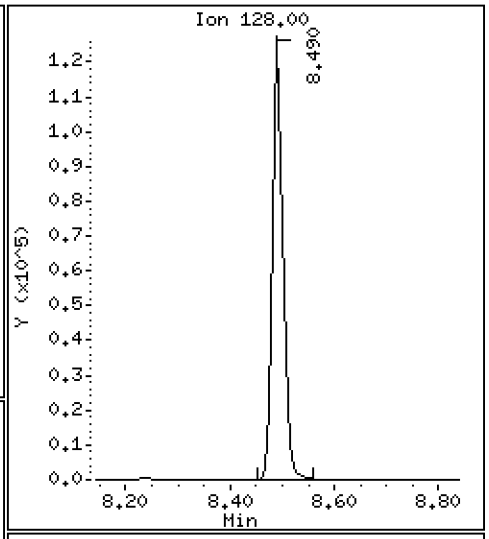
Column phase: ZB-5msi

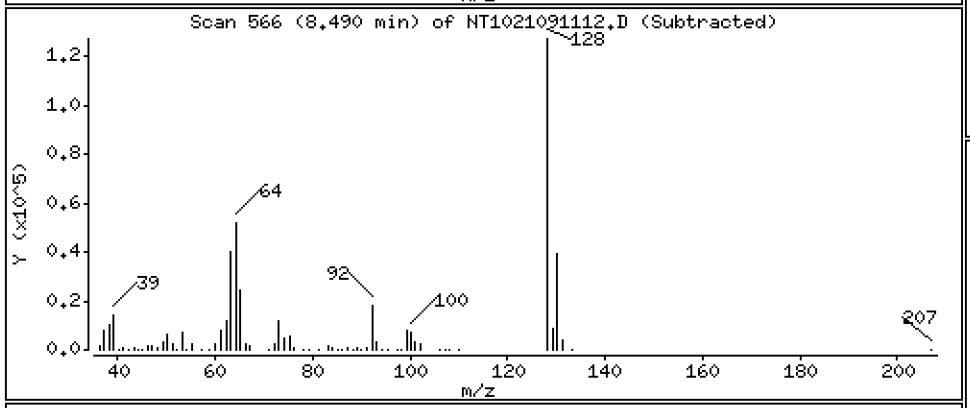
Column diameter: 0.25

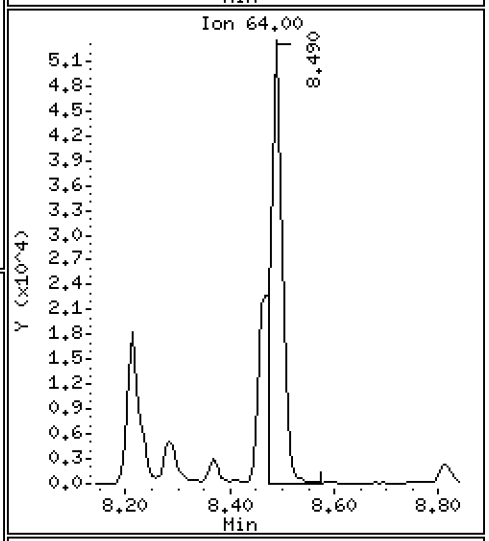
6 2-Chlorophenol

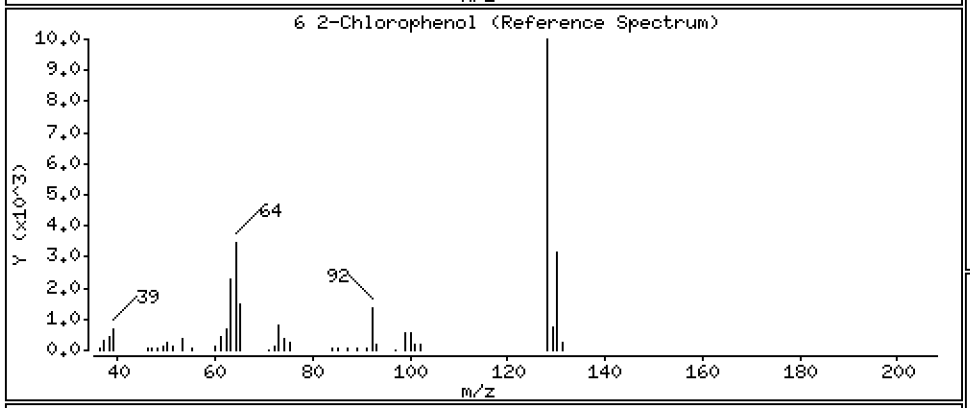
Concentration: 3.415 ug/mL

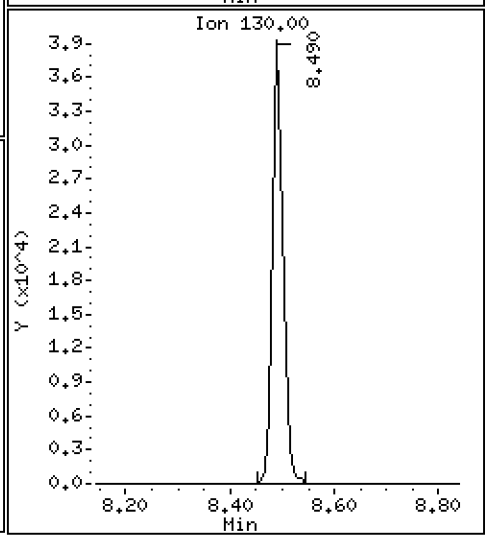


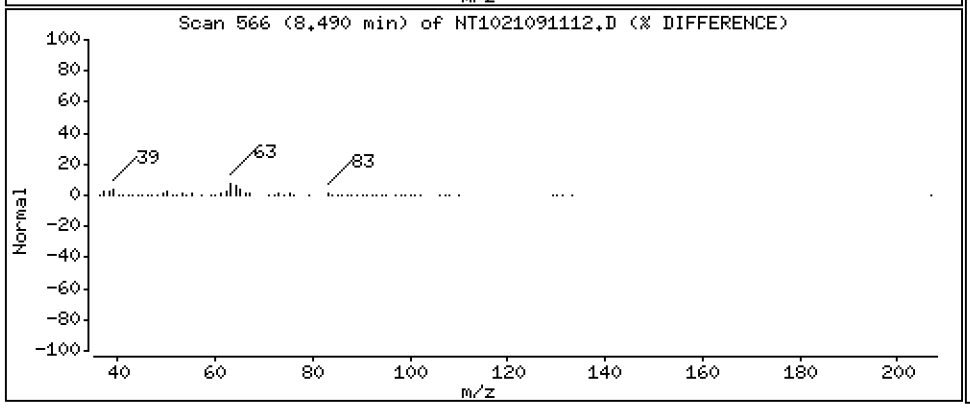












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

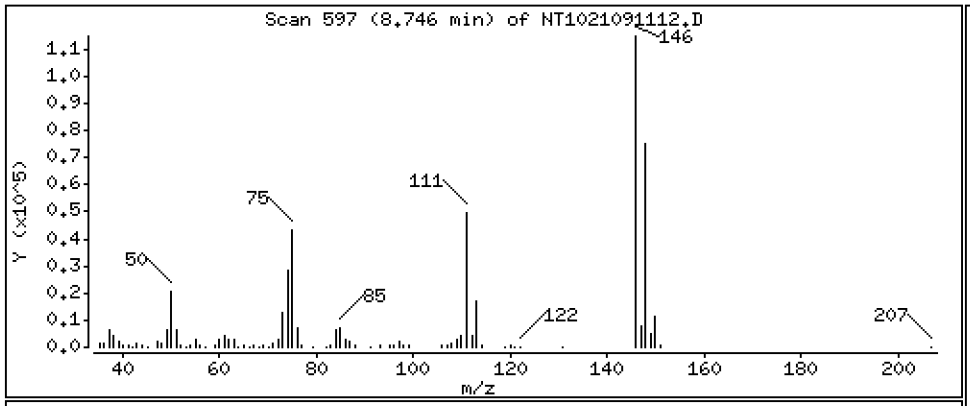
Operator: VTS

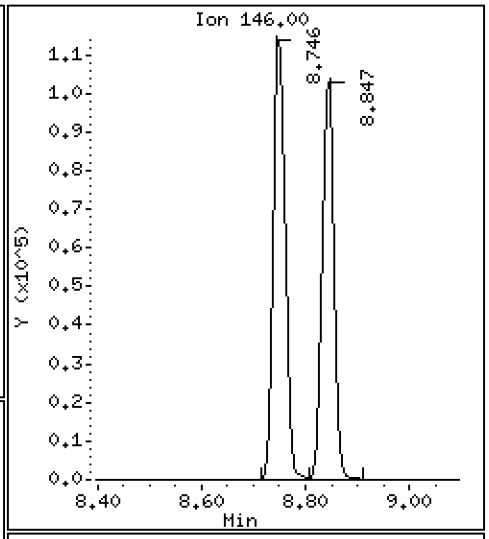
Column phase: ZB-5msi

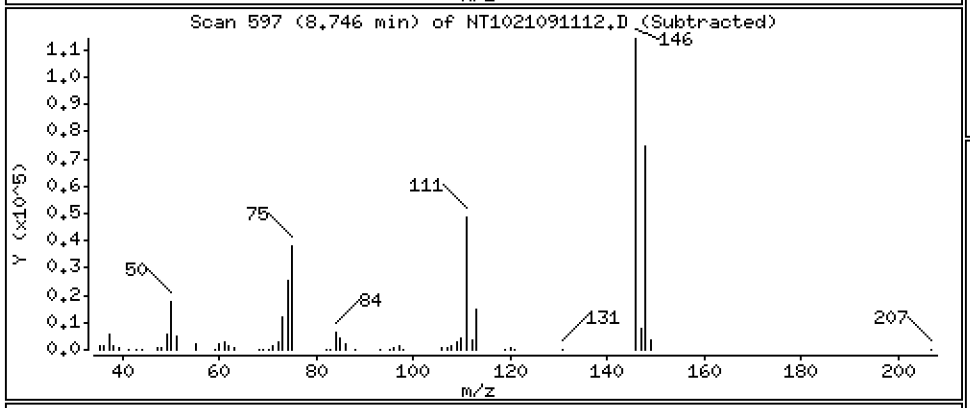
Column diameter: 0.25

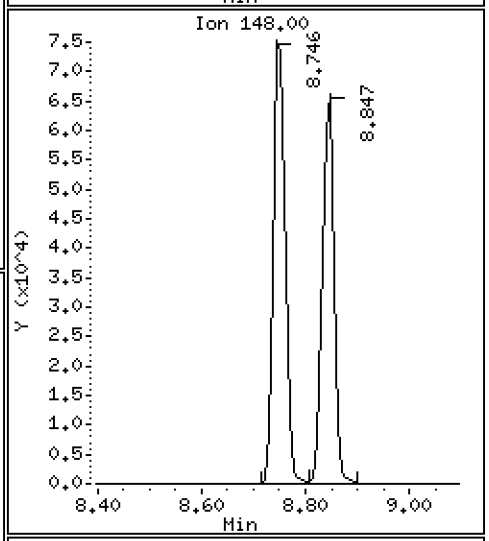
7 1,3-Dichlorobenzene

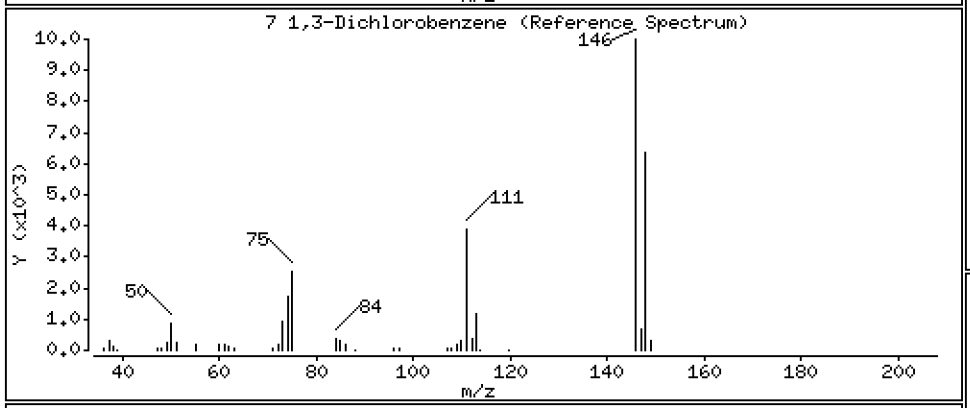
Concentration: 3.367 ug/mL

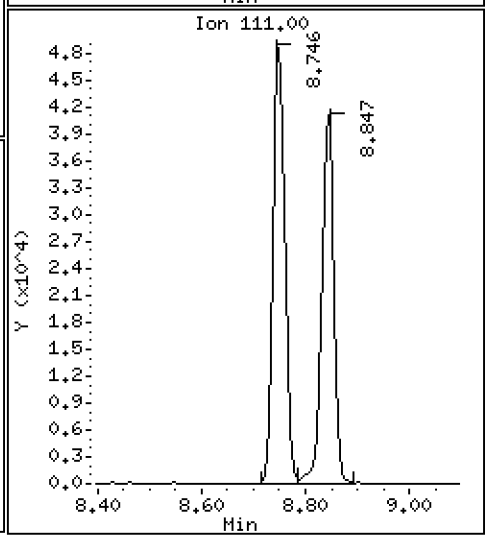


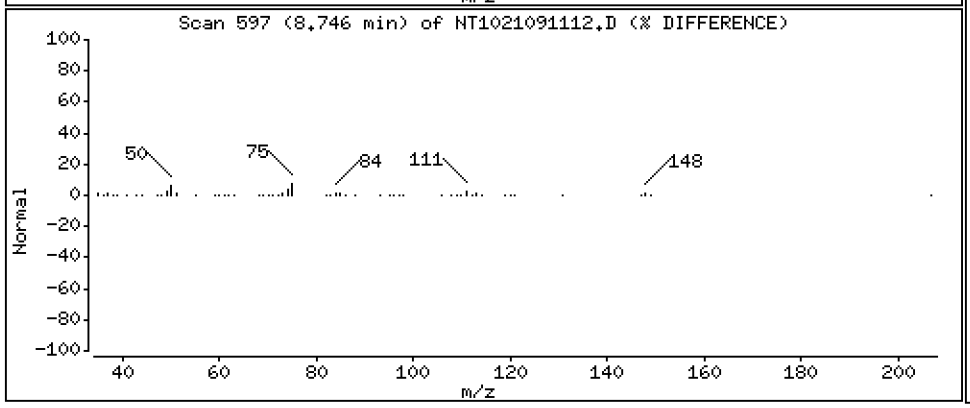












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

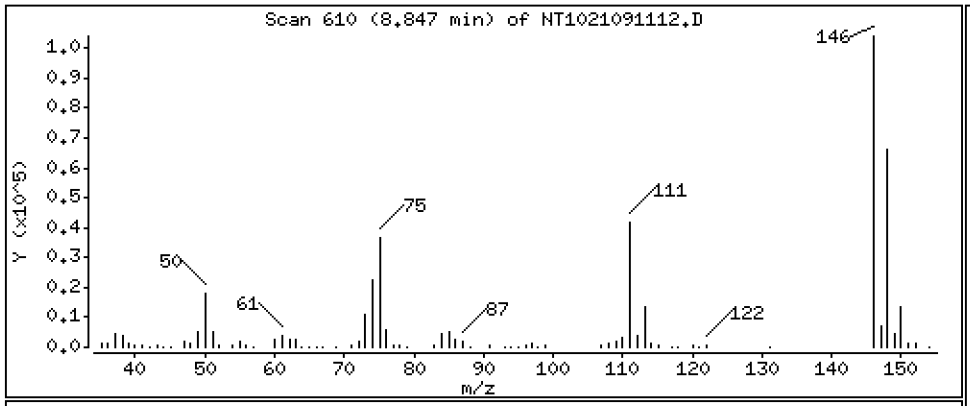
Operator: VTS

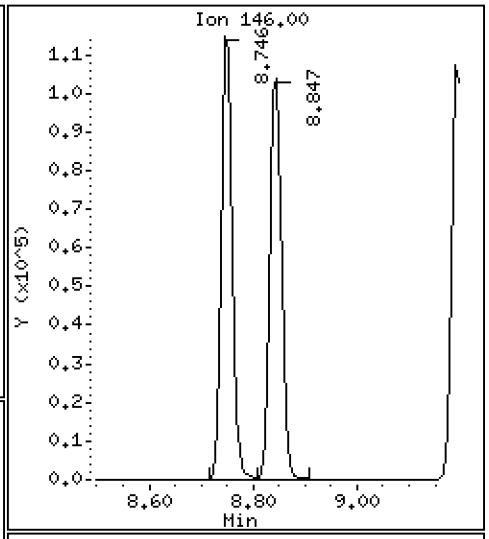
Column phase: ZB-5msi

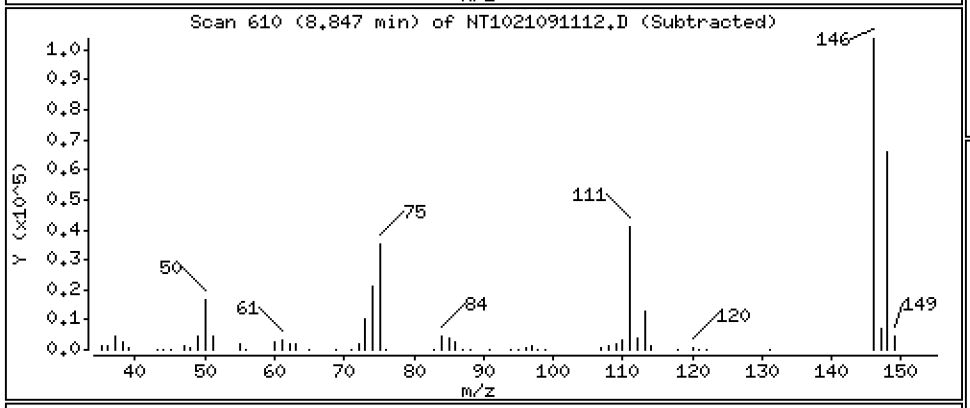
Column diameter: 0.25

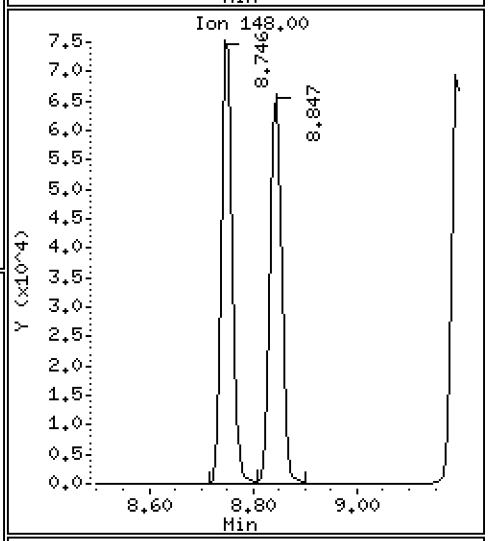
9 1,4-Dichlorobenzene

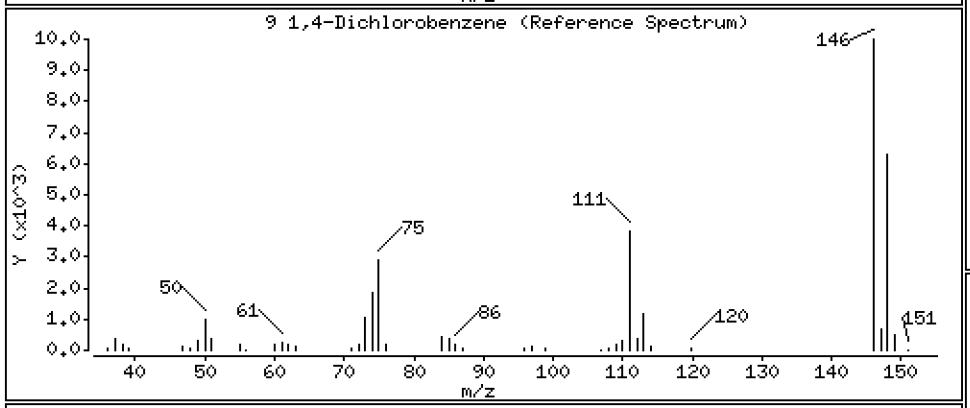
Concentration: 3.973 ug/mL

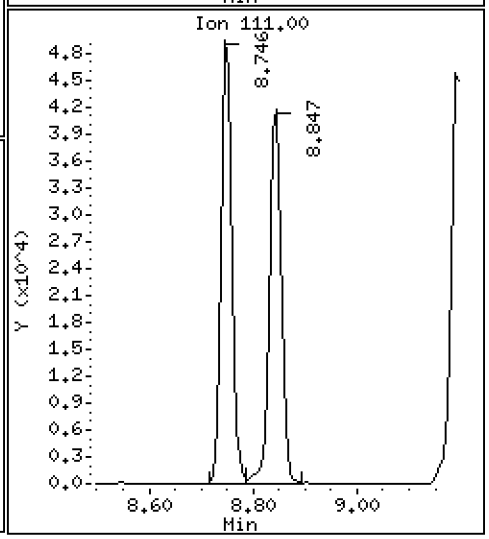


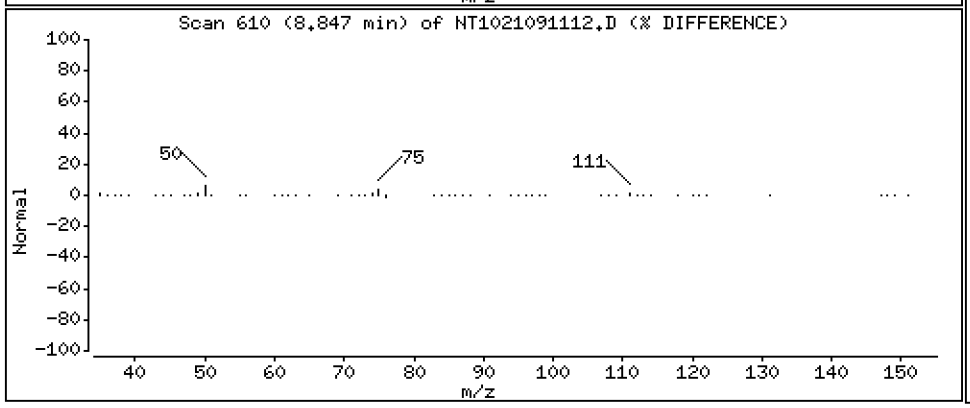












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

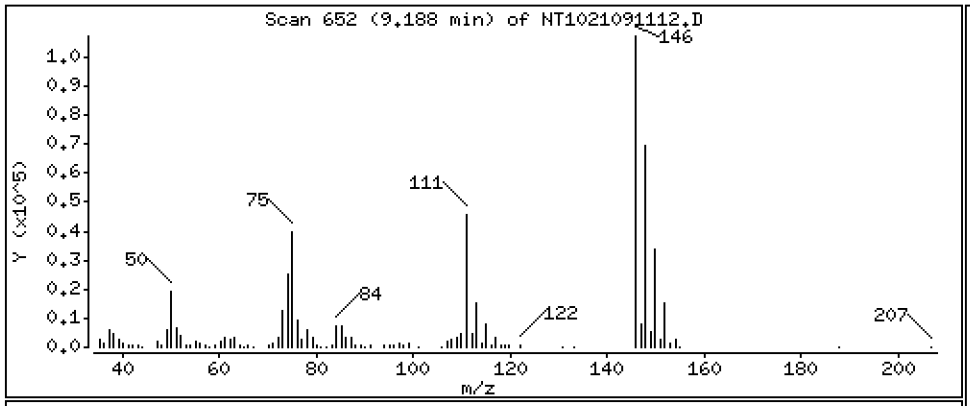
Operator: VTS

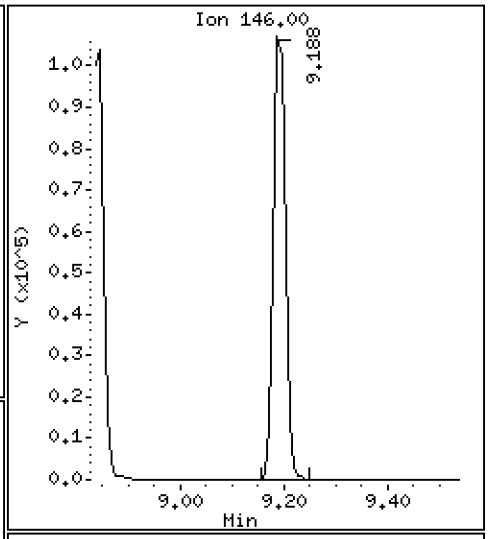
Column phase: ZB-5msi

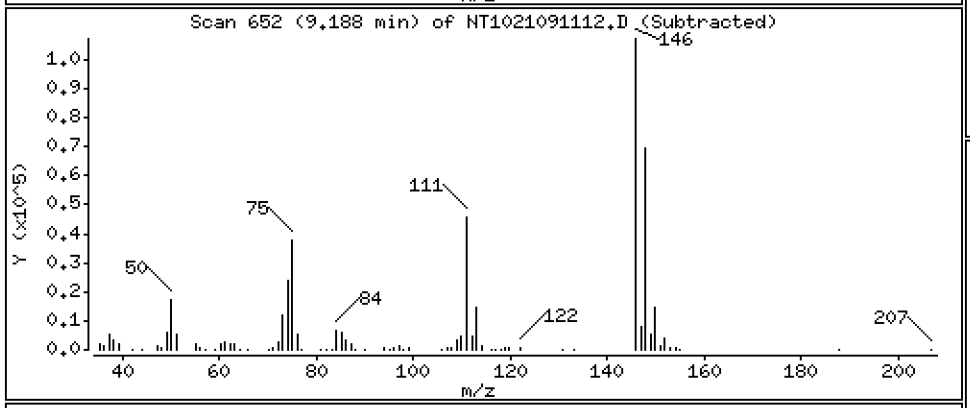
Column diameter: 0.25

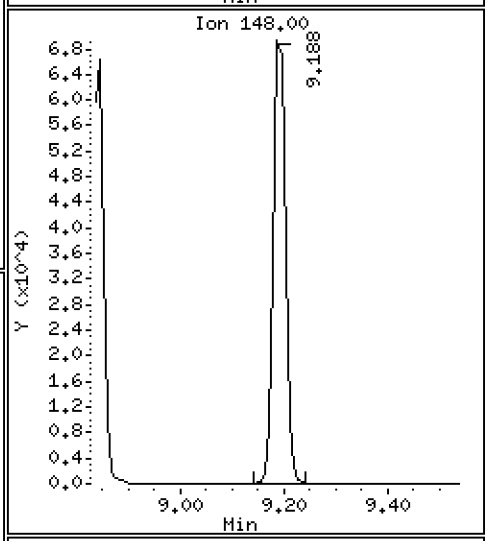
12 1,2-Dichlorobenzene

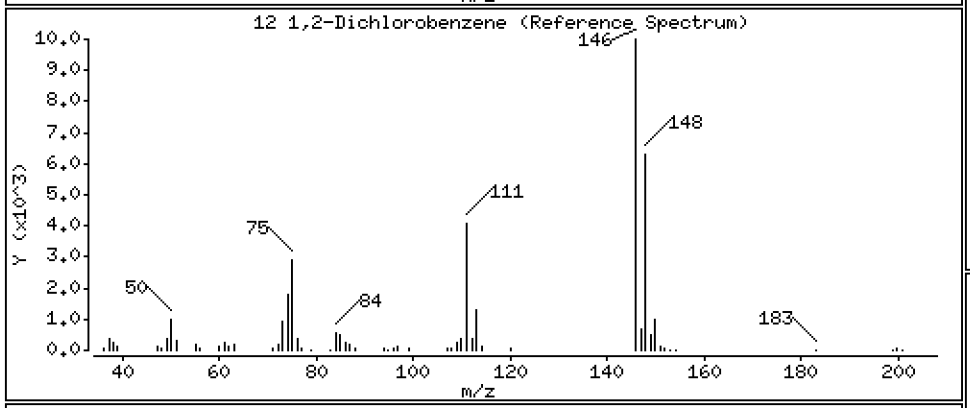
Concentration: 3.633 ug/mL

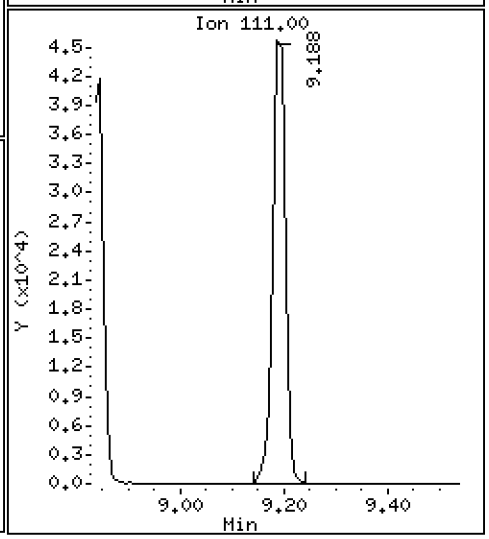


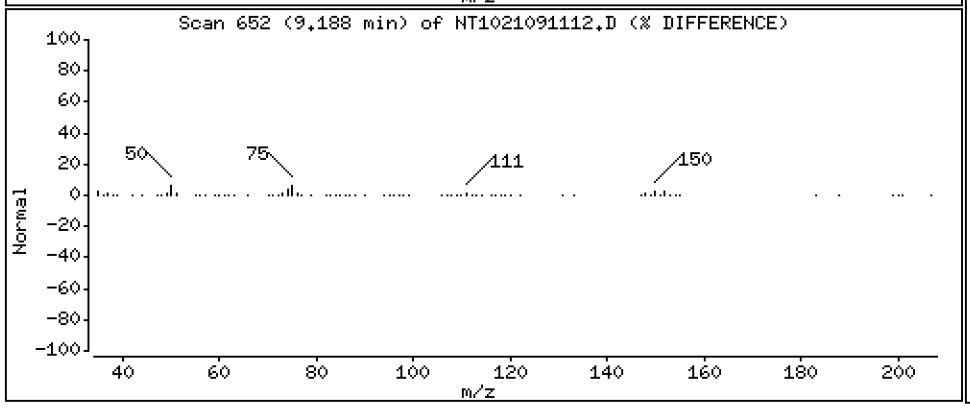












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

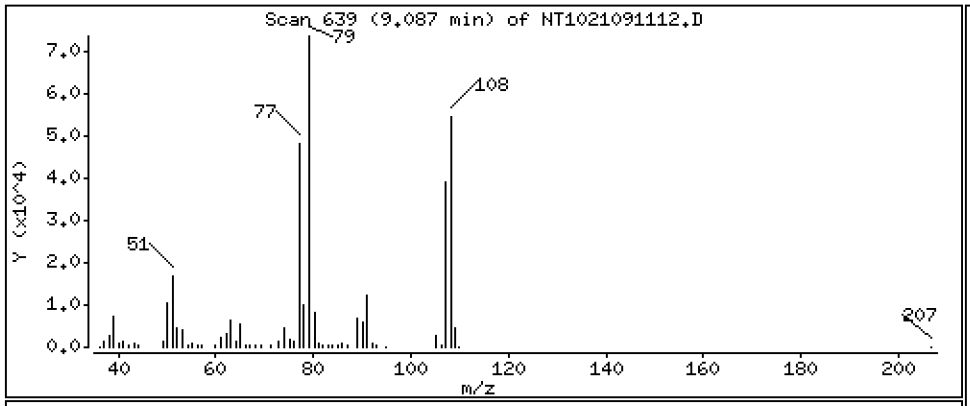
Operator: VTS

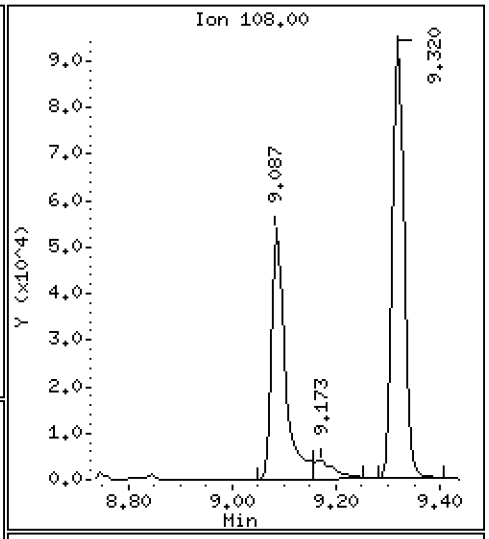
Column phase: ZB-5msi

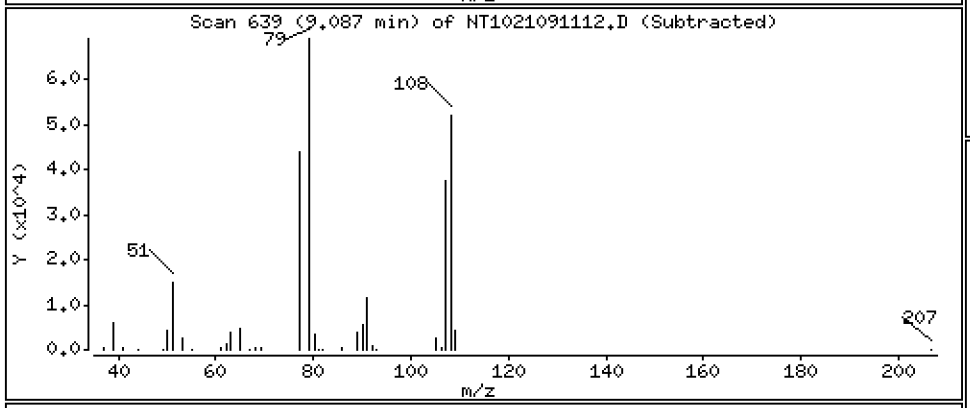
Column diameter: 0.25

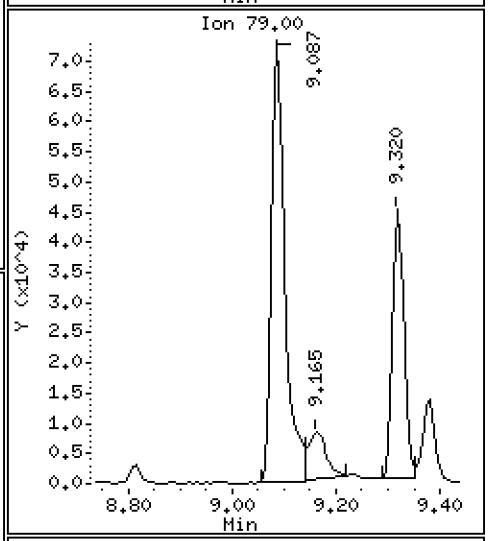
11 Benzyl alcohol

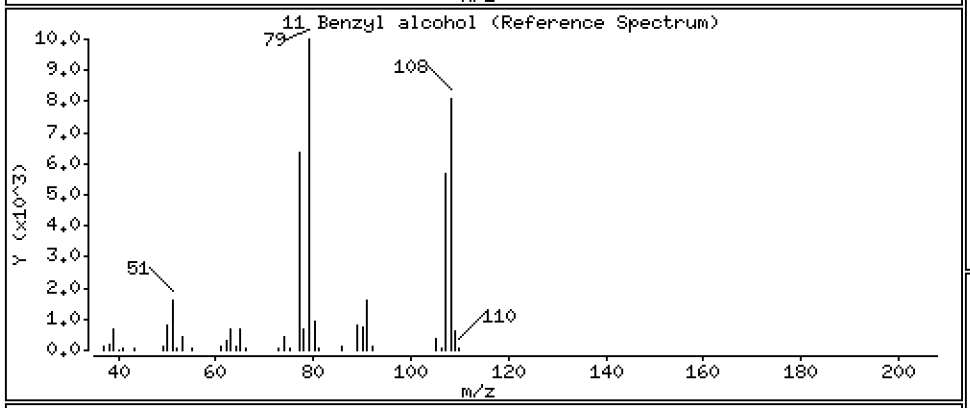
Concentration: 3.443 ug/mL

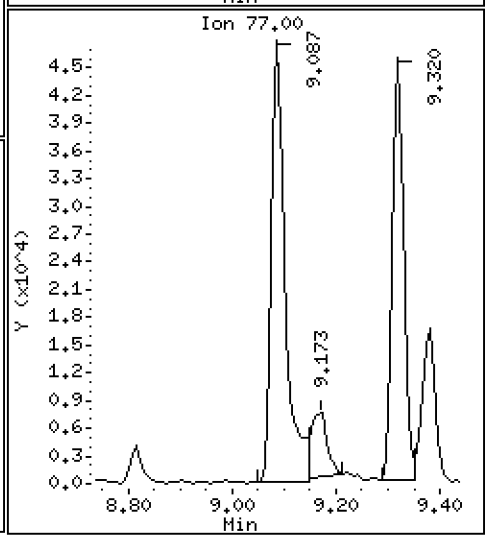


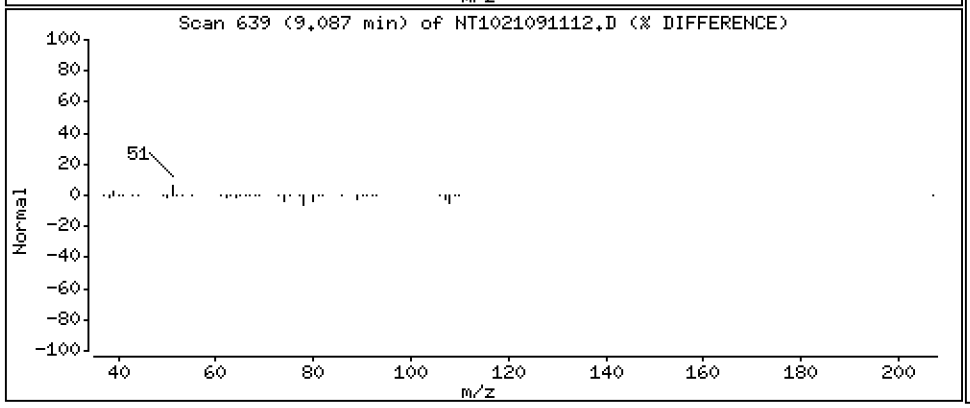












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

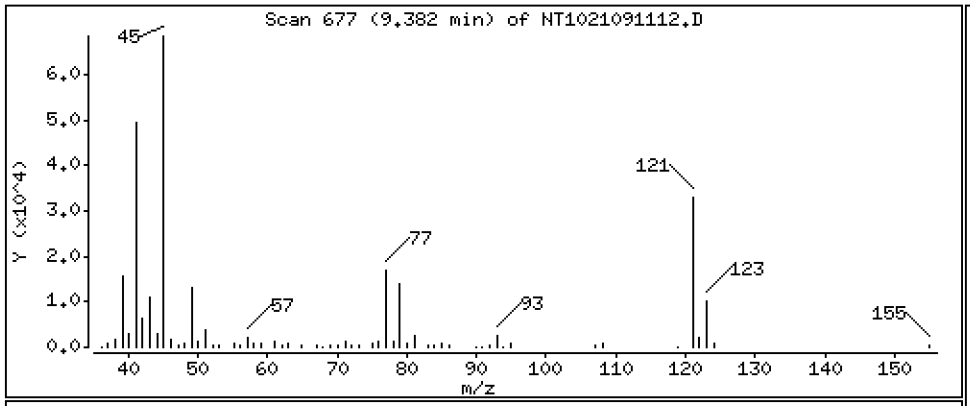
Operator: VTS

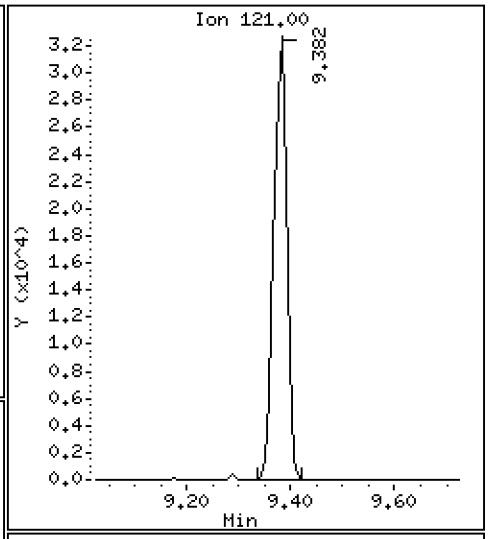
Column phase: ZB-5msi

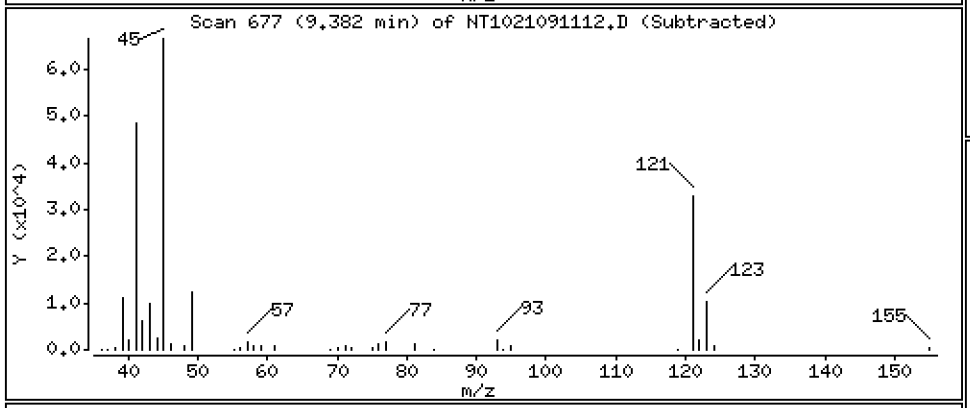
Column diameter: 0.25

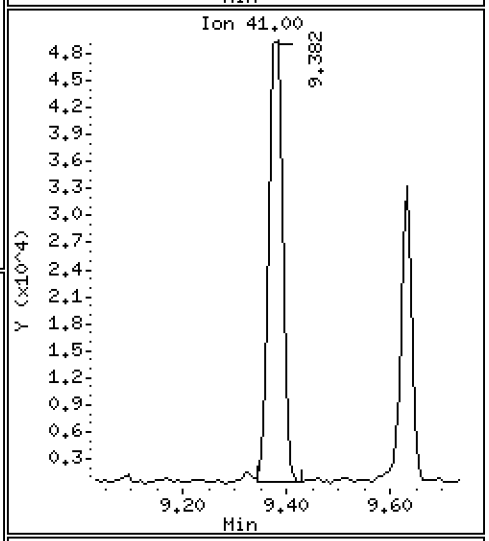
14 2,2'-oxybis(1-Chloropropane)

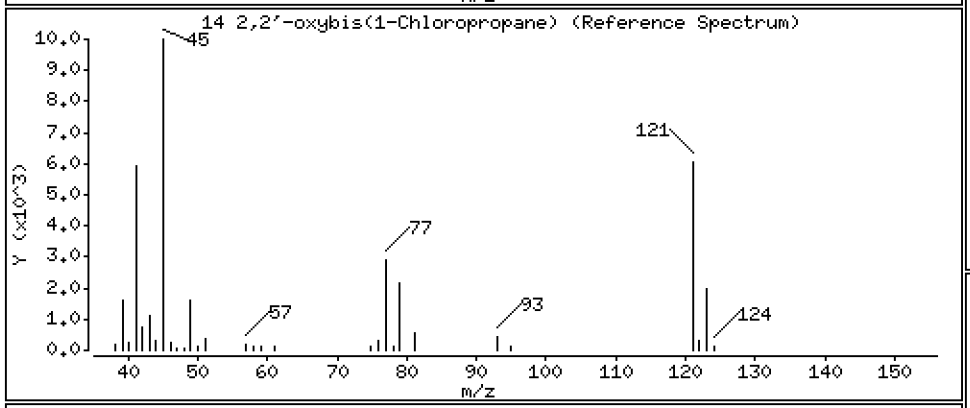
Concentration: 4.176 ug/mL

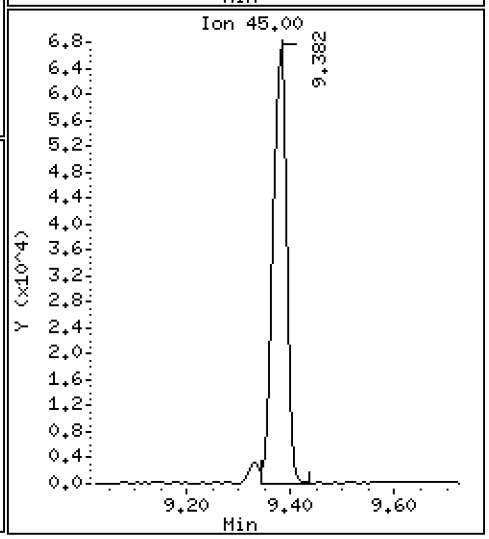


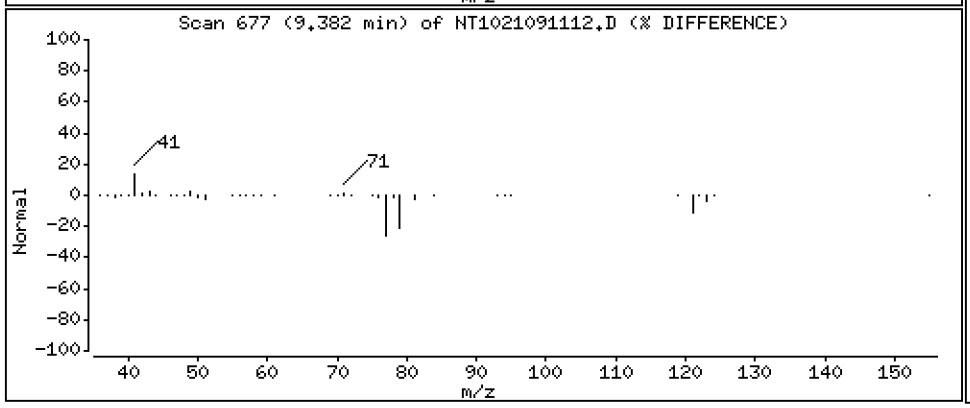












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

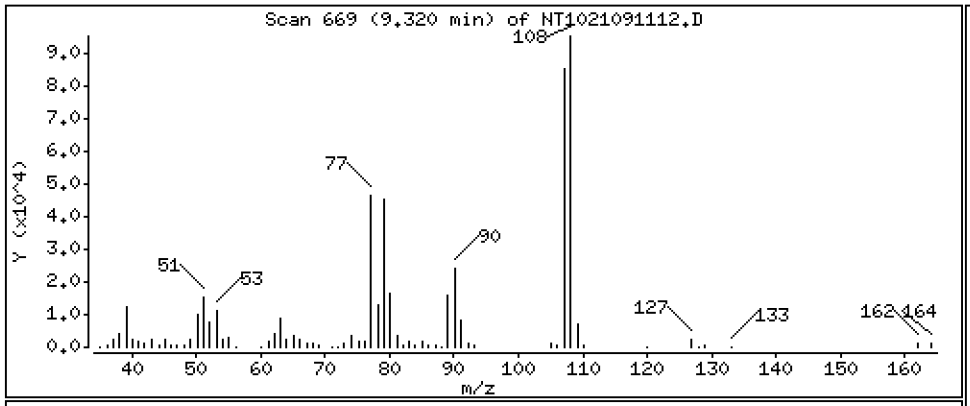
Operator: VTS

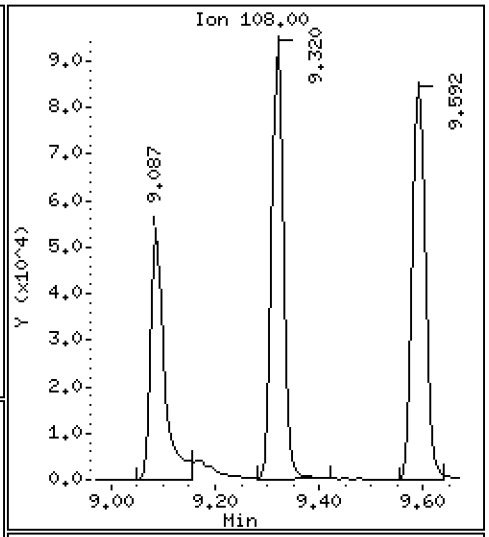
Column phase: ZB-5msi

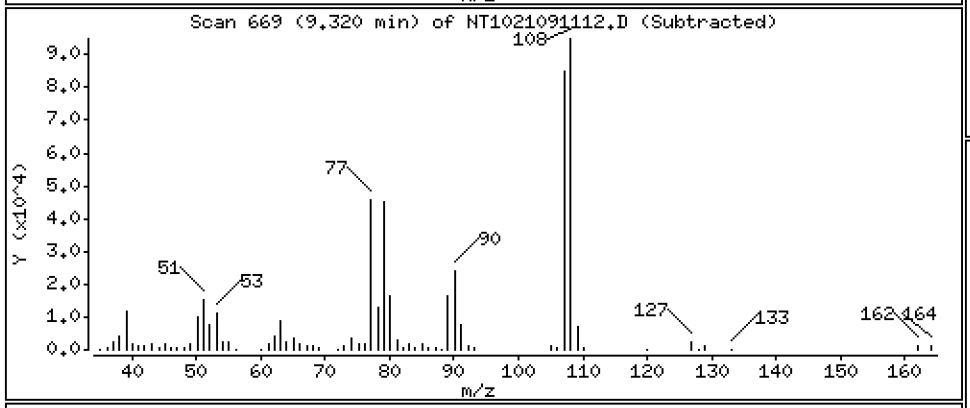
Column diameter: 0.25

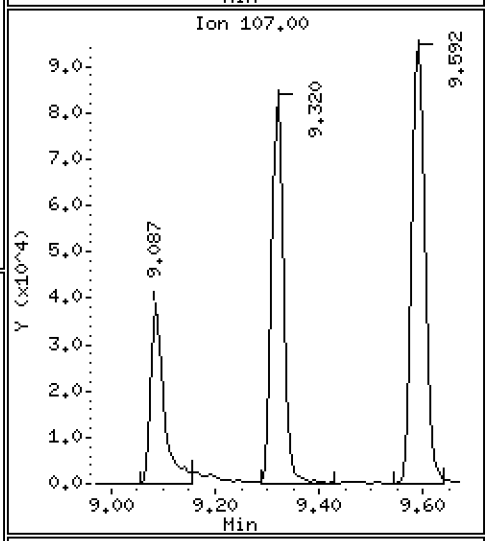
13 2-Methylphenol

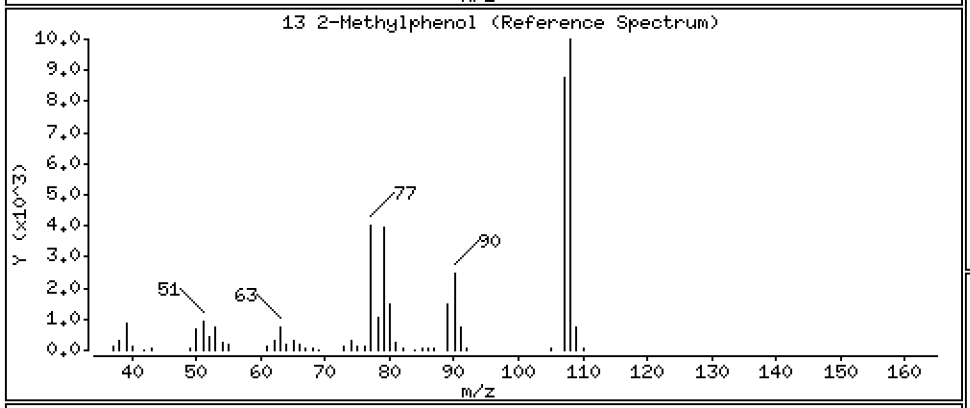
Concentration: 3.651 ug/mL

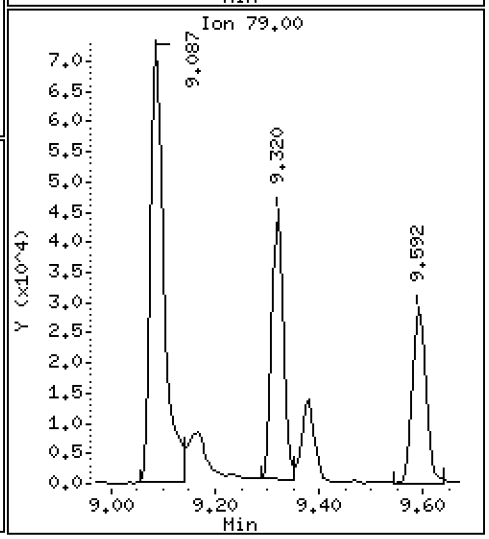


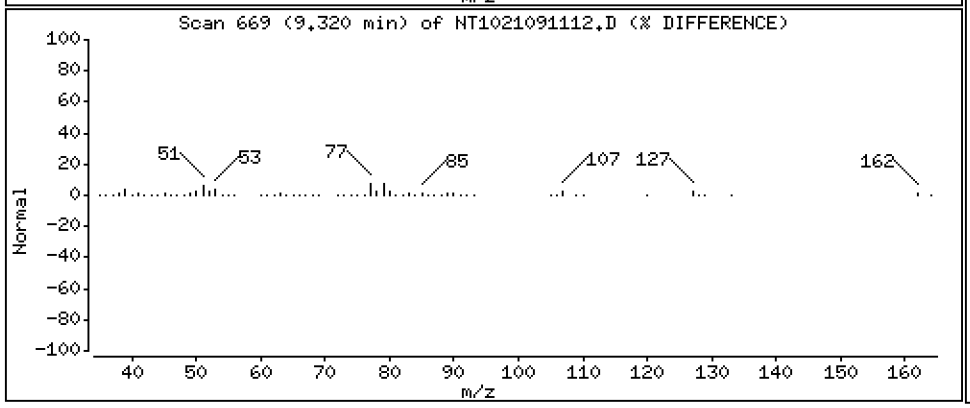












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

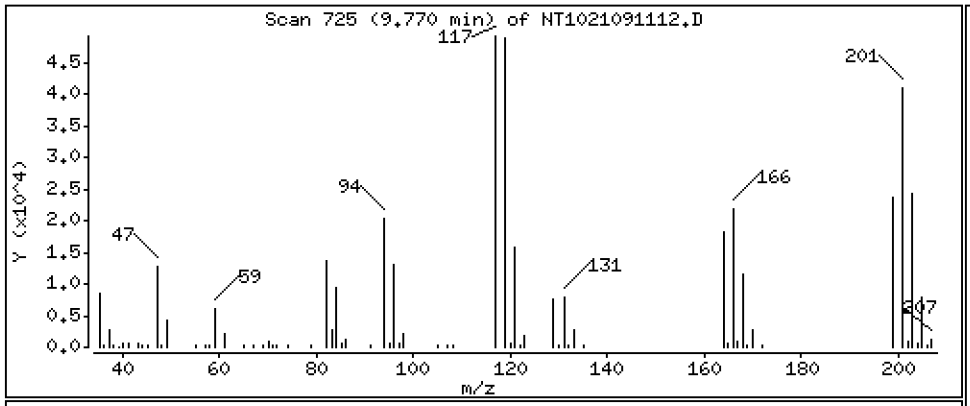
Operator: VTS

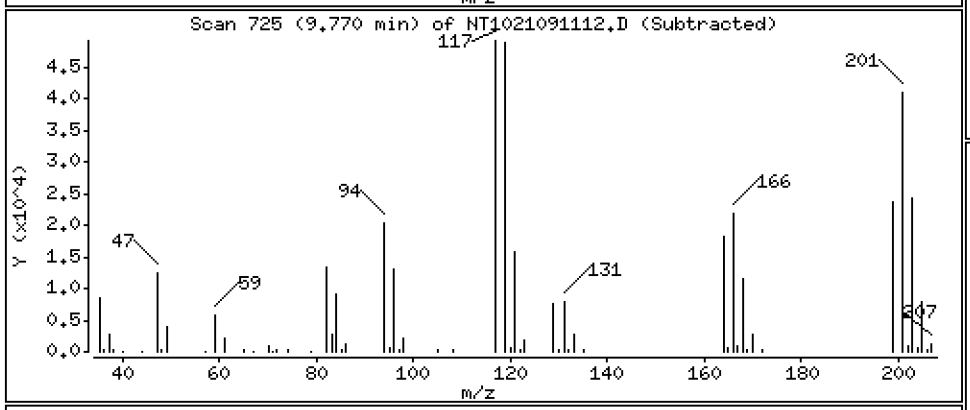
Column phase: ZB-5msi

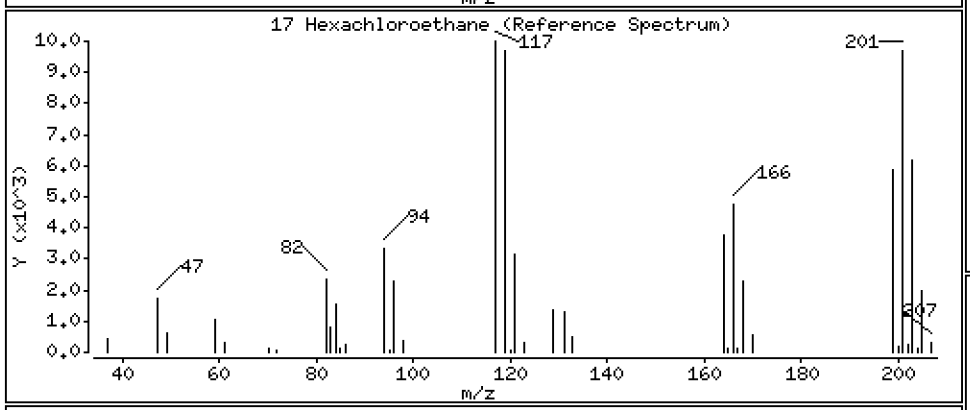
Column diameter: 0.25

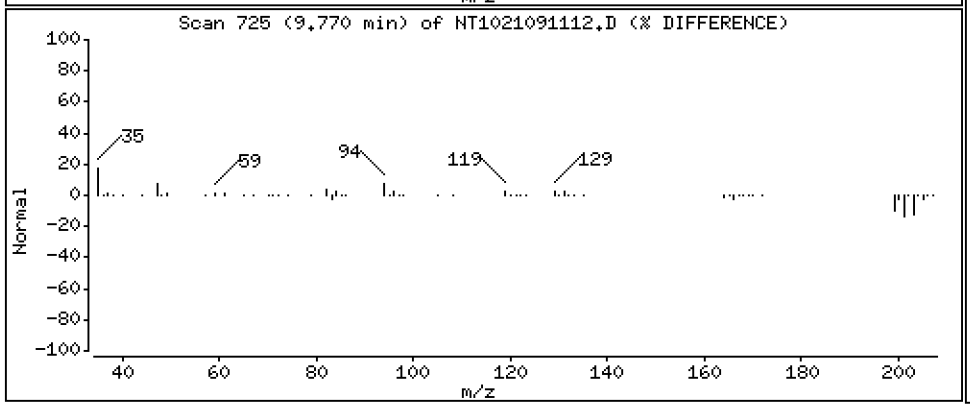
17 Hexachloroethane

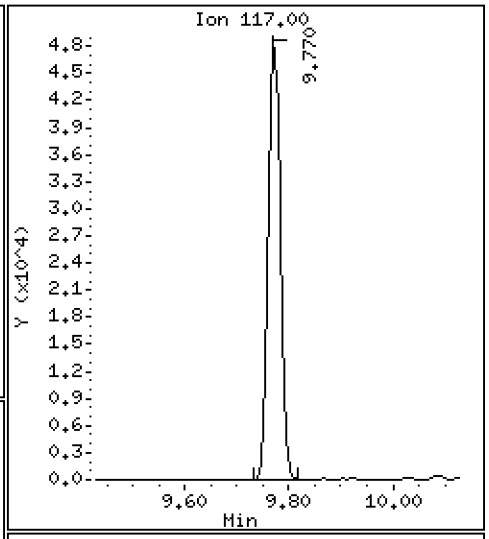
Concentration: 4.340 ug/mL

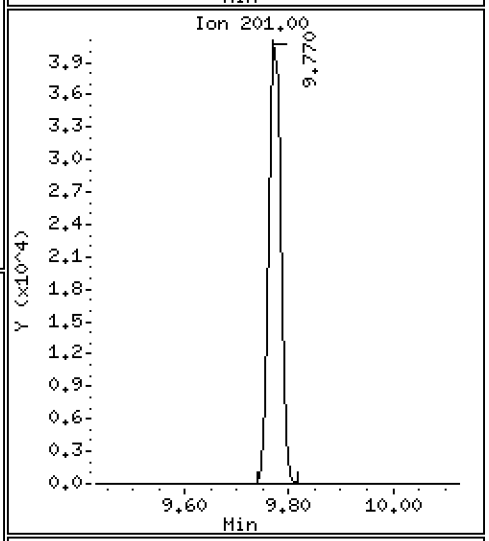


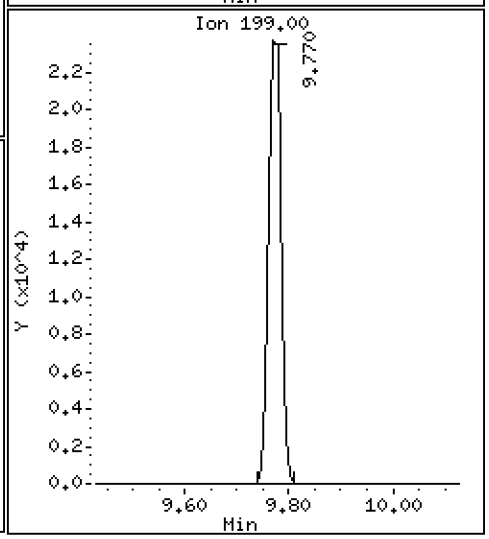












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

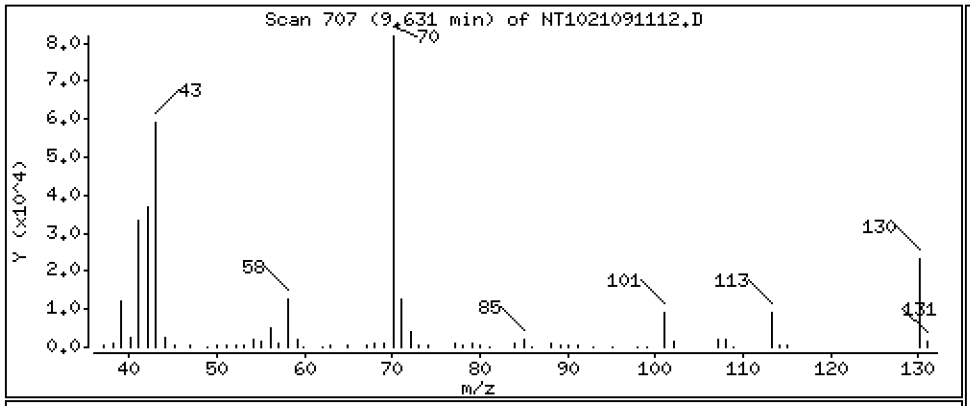
Operator: VTS

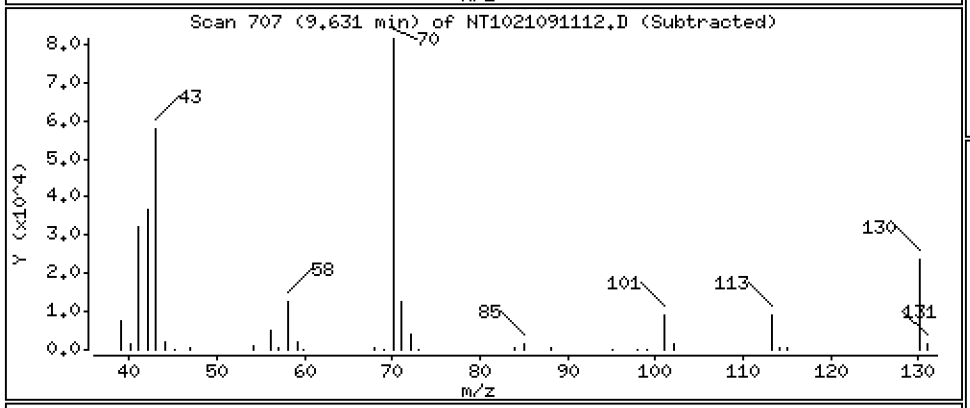
Column phase: ZB-5msi

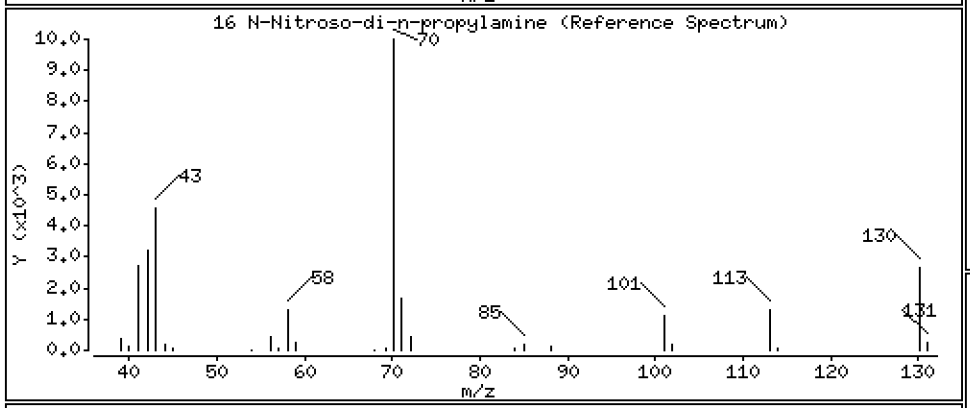
Column diameter: 0.25

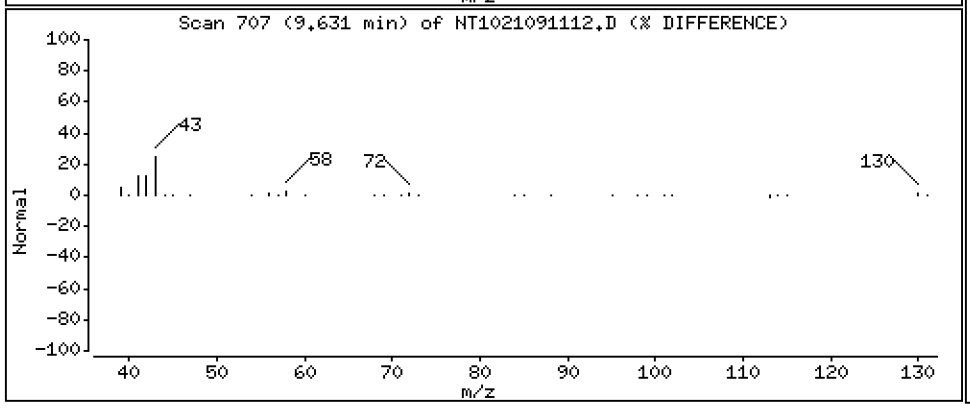
16 N-Nitroso-di-n-propylamine

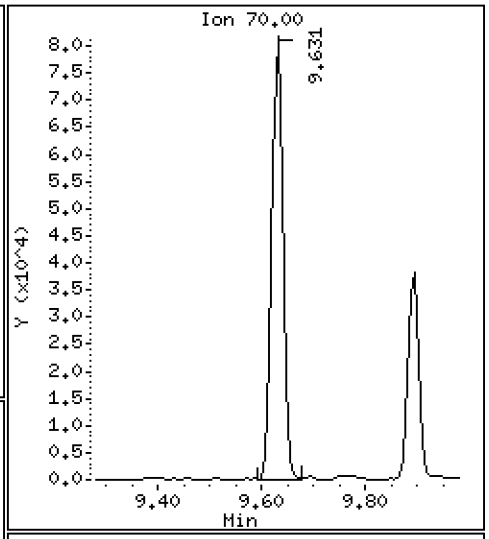
Concentration: 4.283 ug/mL

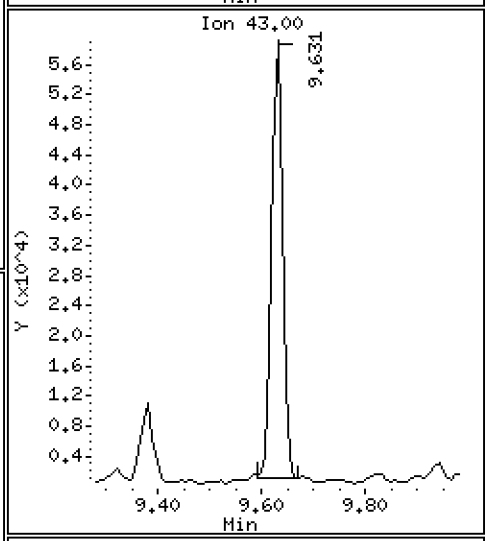


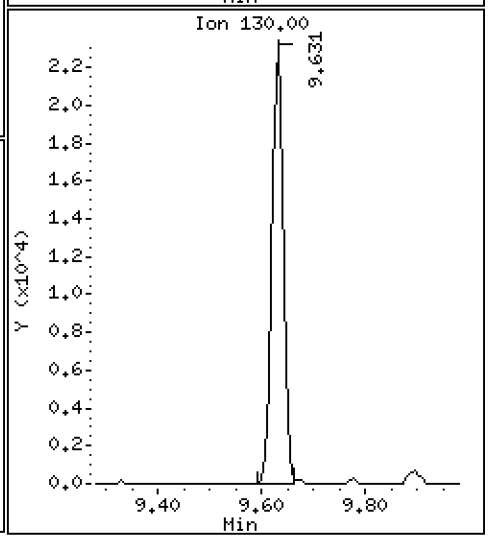












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

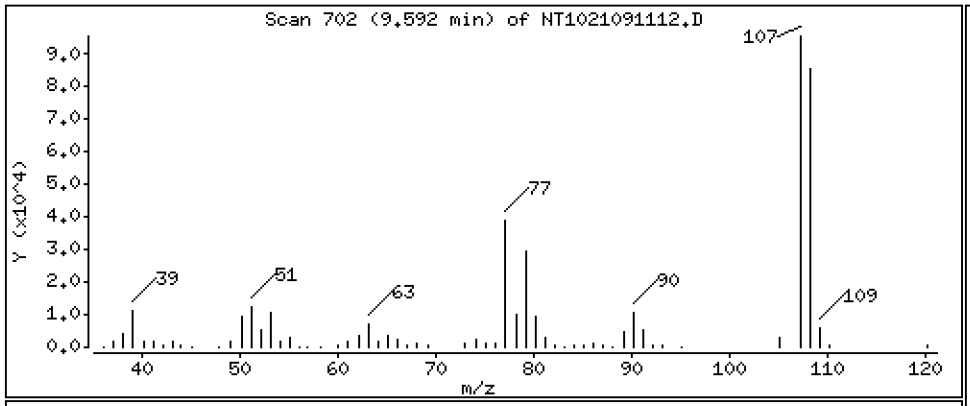
Operator: VTS

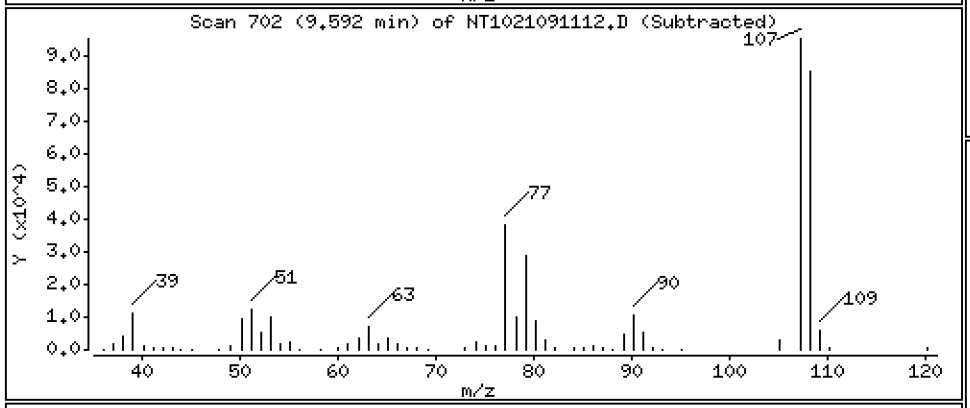
Column phase: ZB-5msi

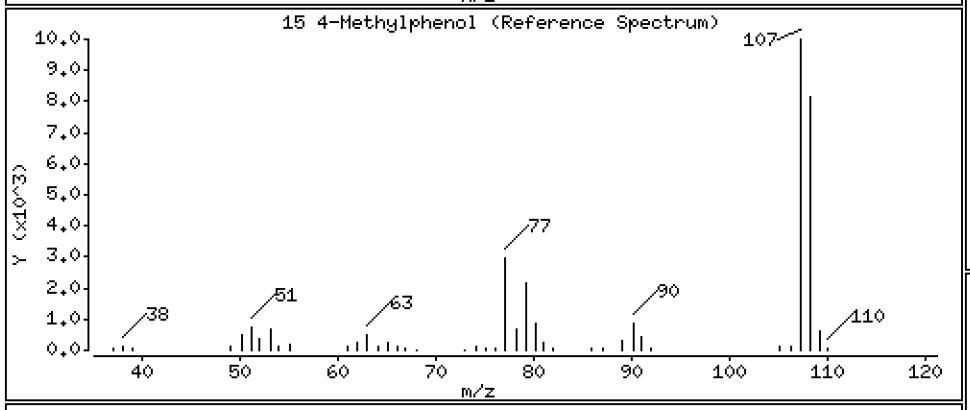
Column diameter: 0.25

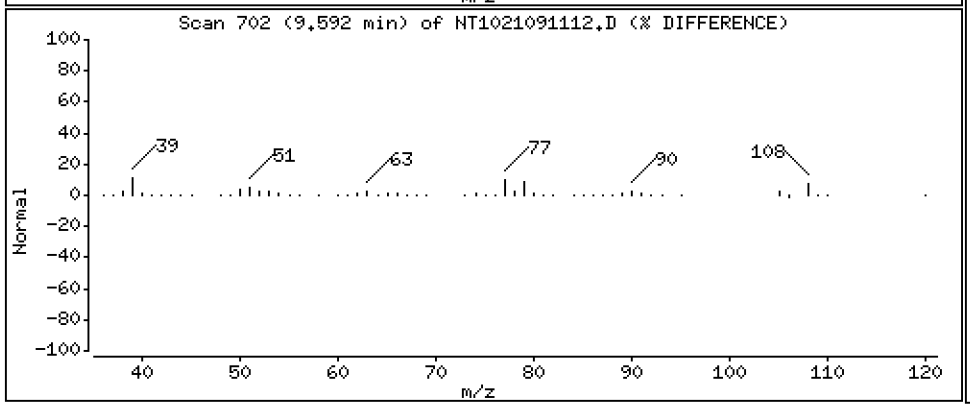
15 4-Methylphenol

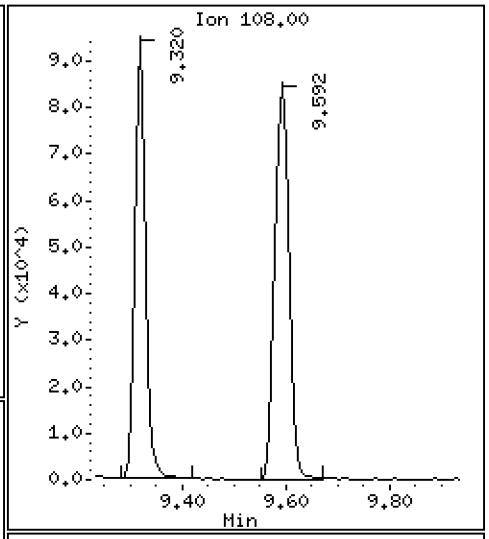
Concentration: 3.934 ug/mL

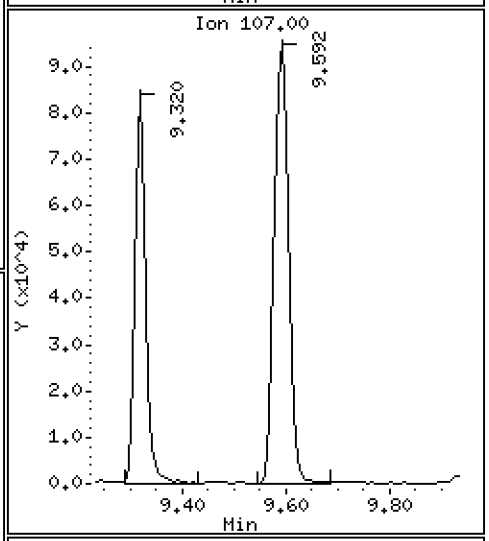


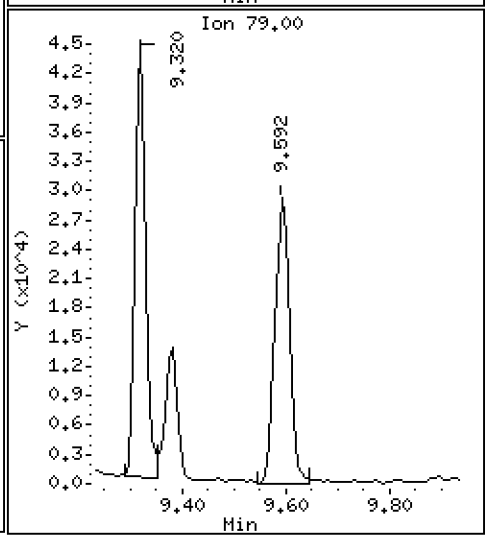












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

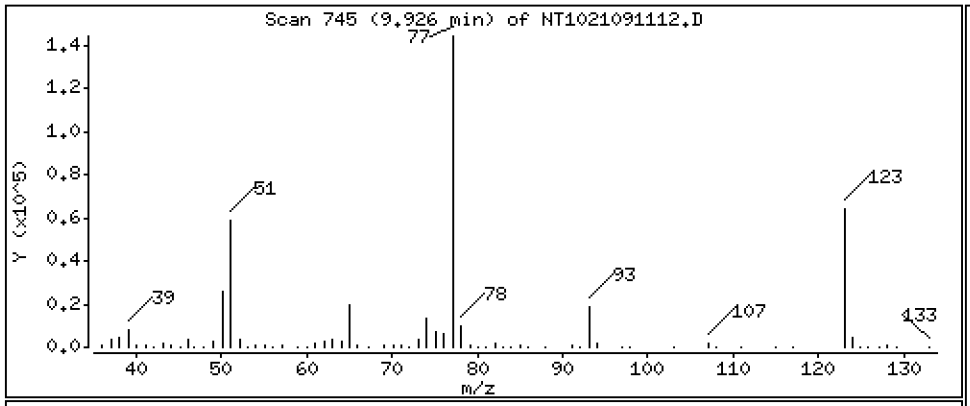
Operator: VTS

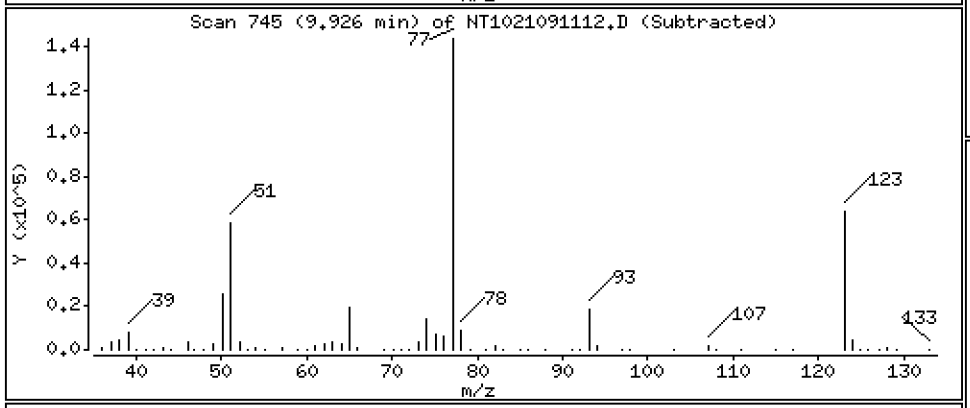
Column phase: ZB-5msi

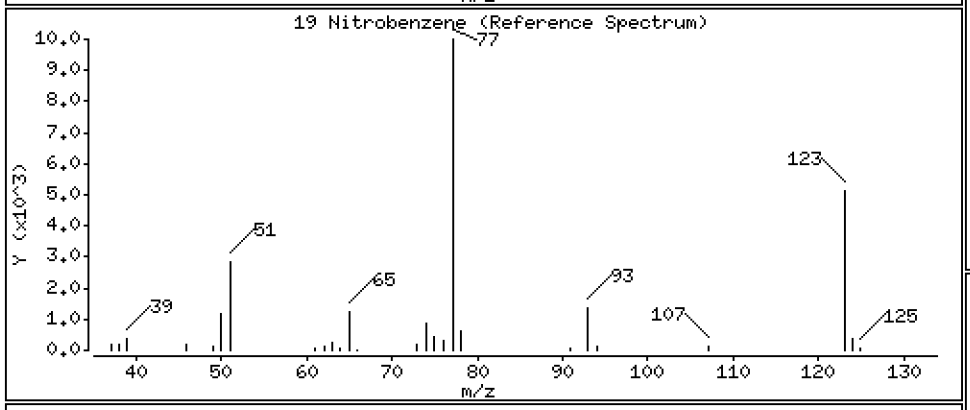
Column diameter: 0.25

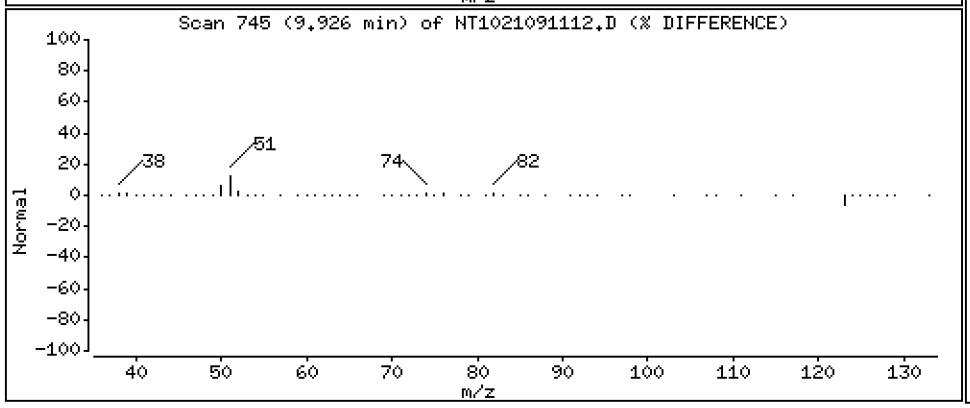
19 Nitrobenzene

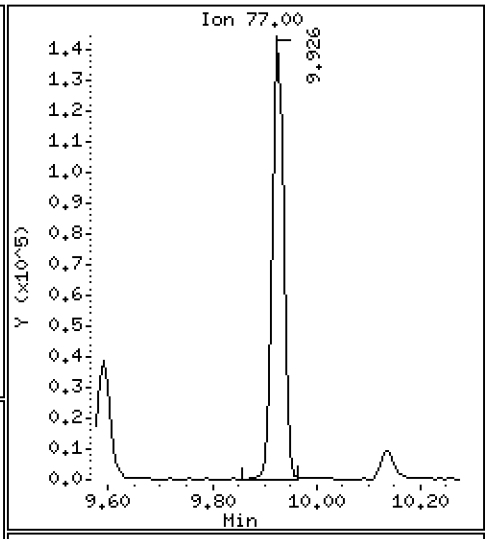
Concentration: 4.662 ug/mL

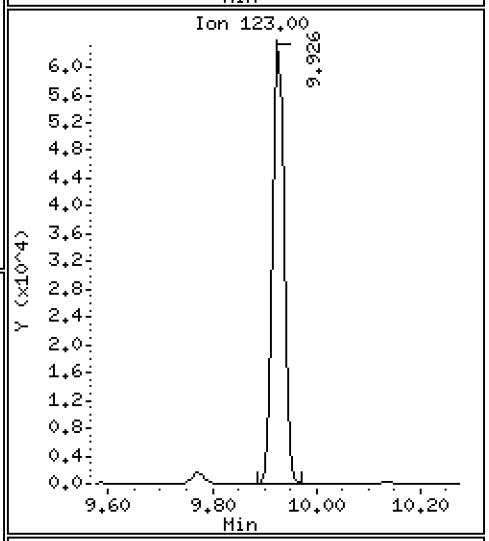


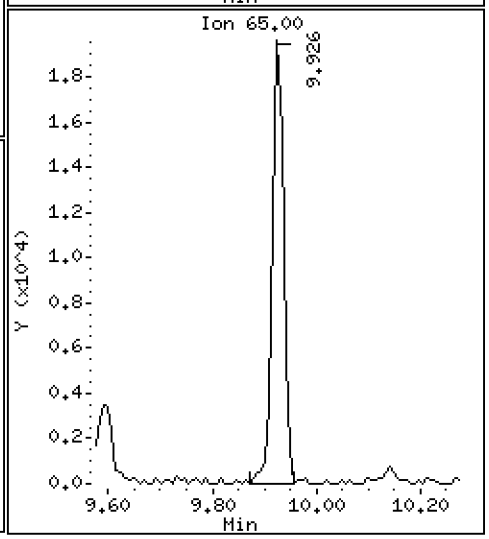












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

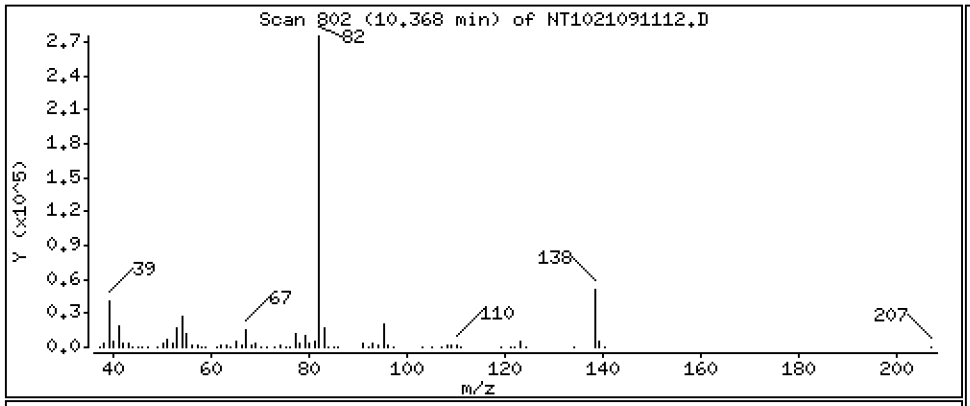
Operator: VTS

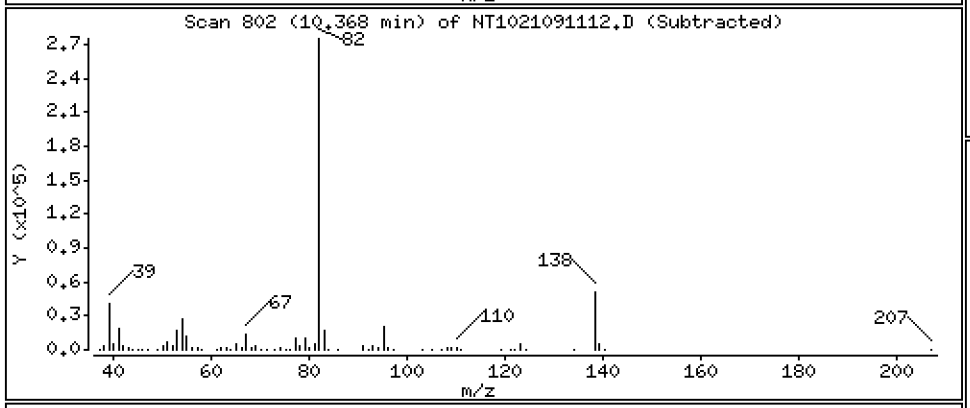
Column phase: ZB-5msi

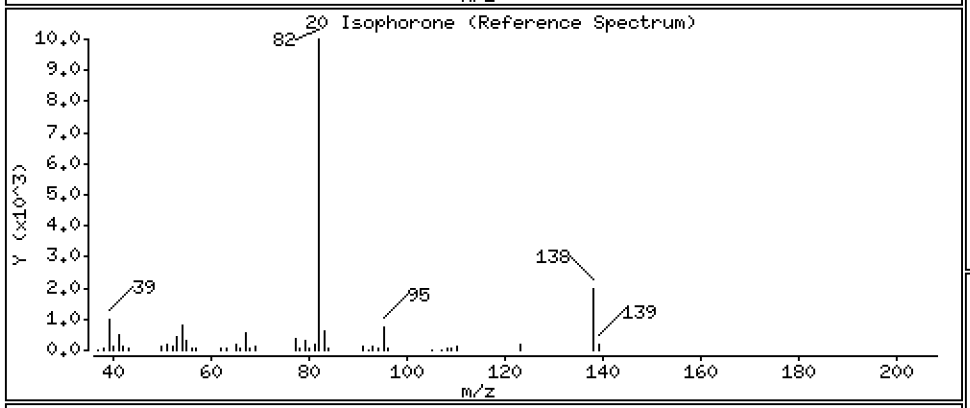
Column diameter: 0.25

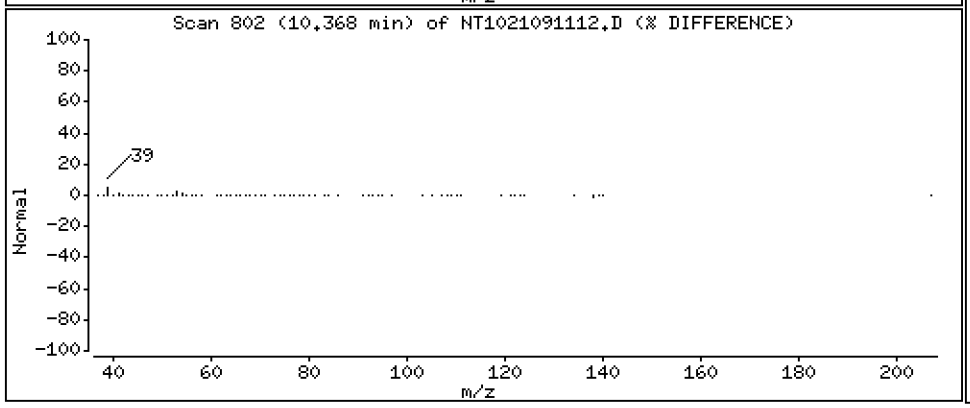
20 Isophorone

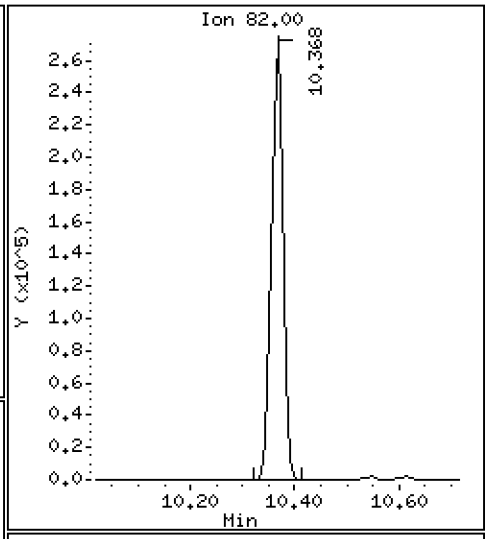
Concentration: 6.088 ug/mL

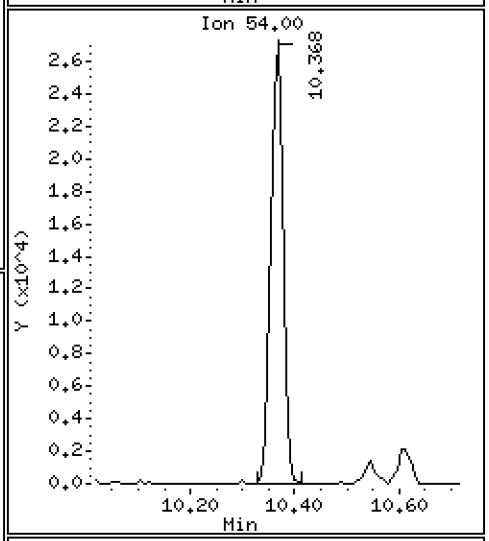


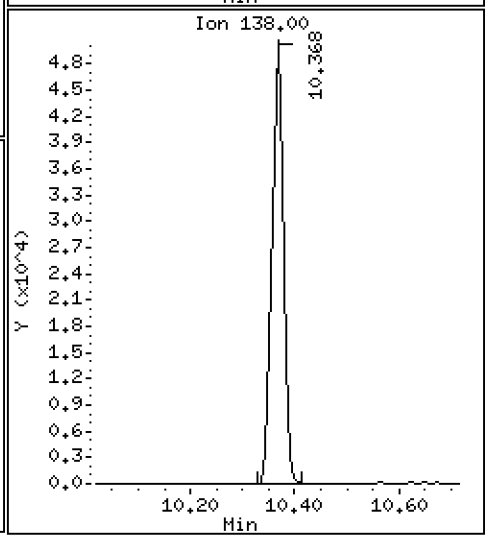












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

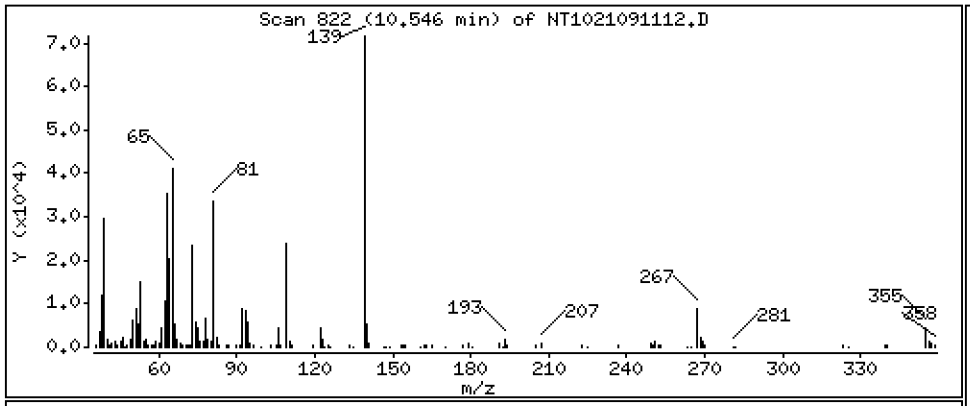
Operator: VTS

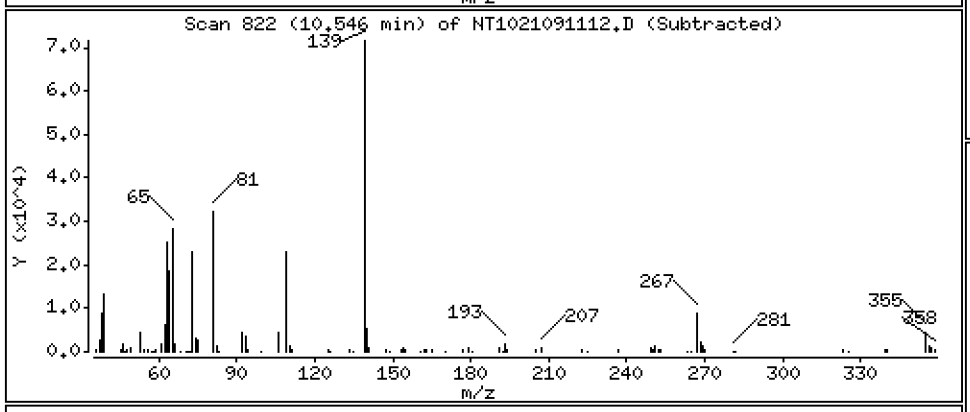
Column phase: ZB-5msi

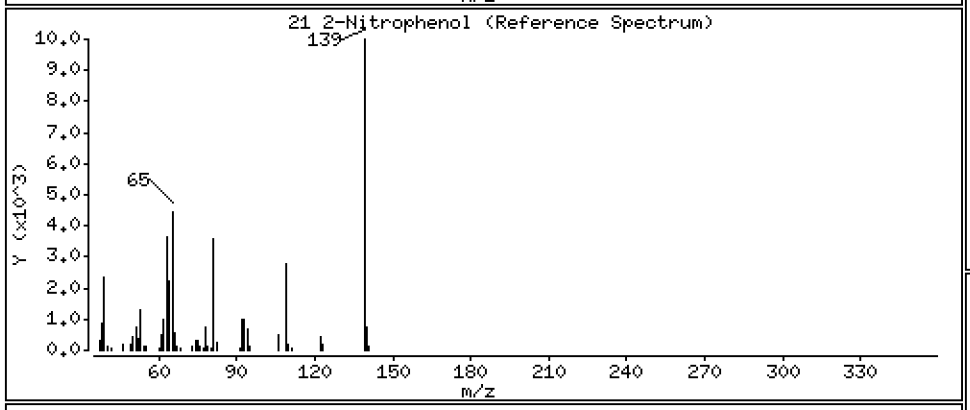
Column diameter: 0.25

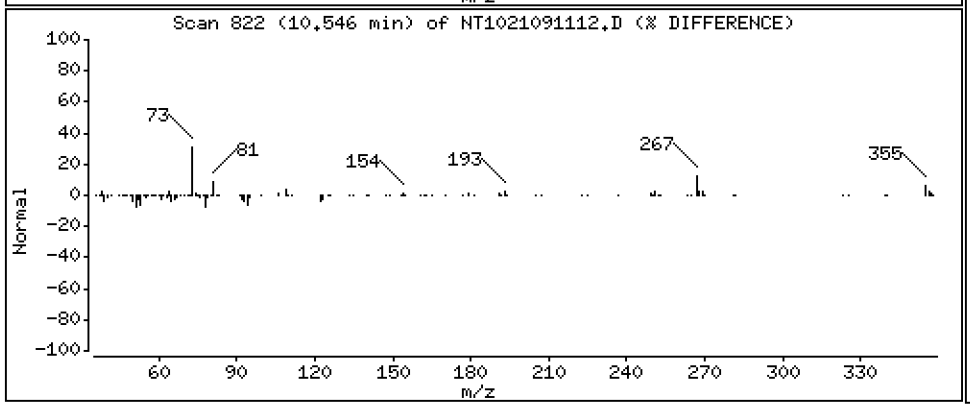
21 2-Nitrophenol

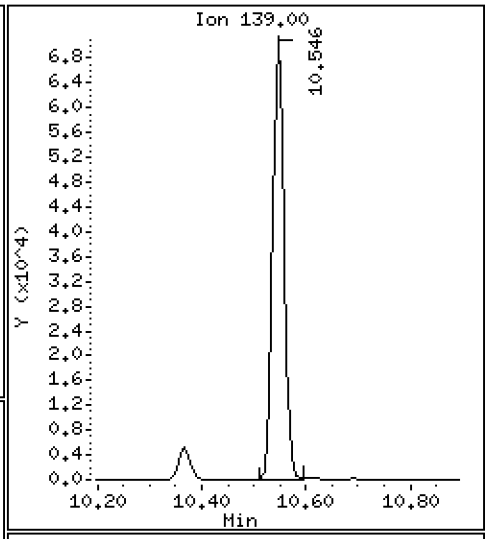
Concentration: 4.300 ug/mL

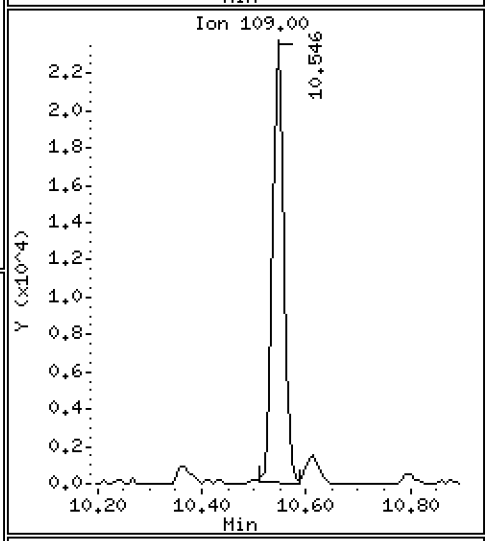


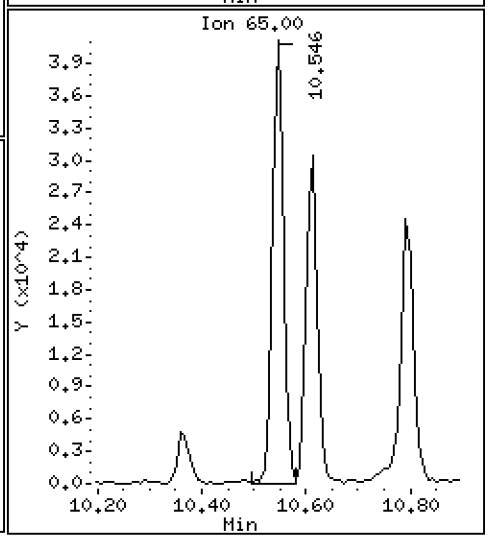












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

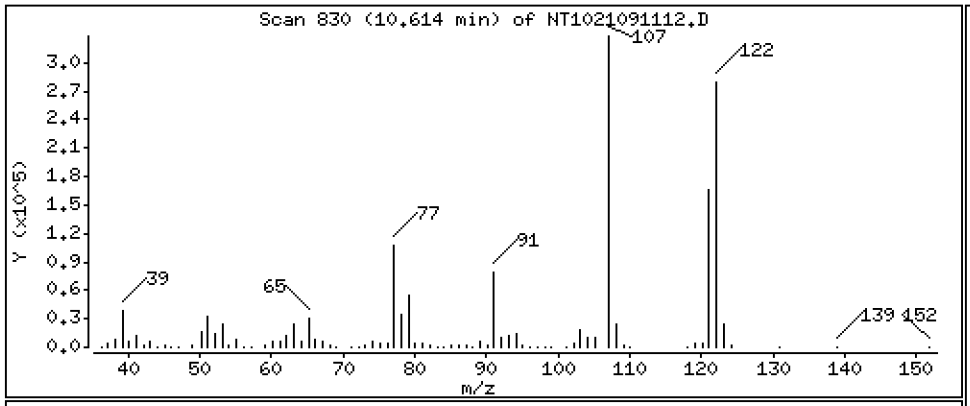
Operator: VTS

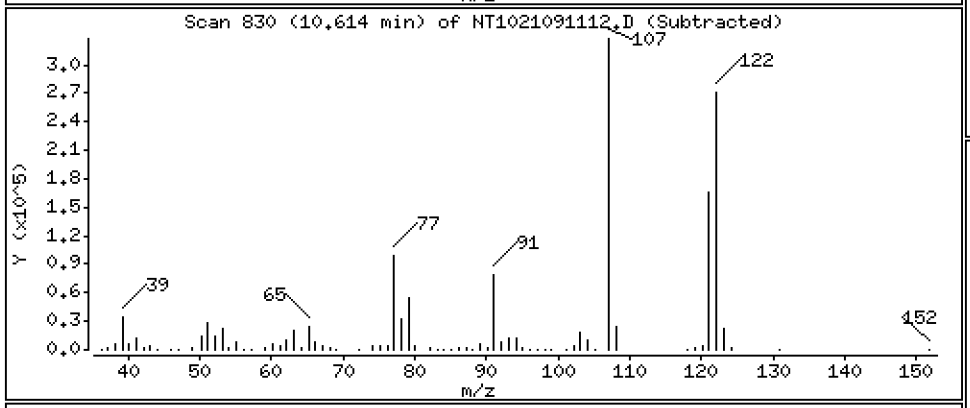
Column phase: ZB-5msi

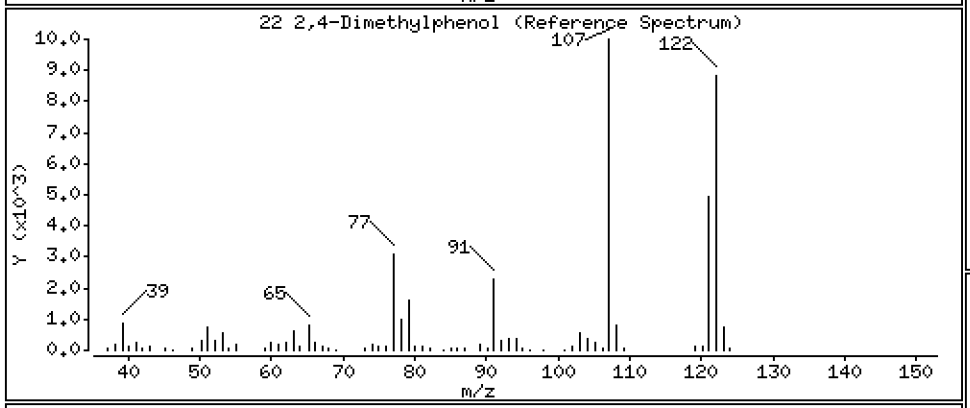
Column diameter: 0.25

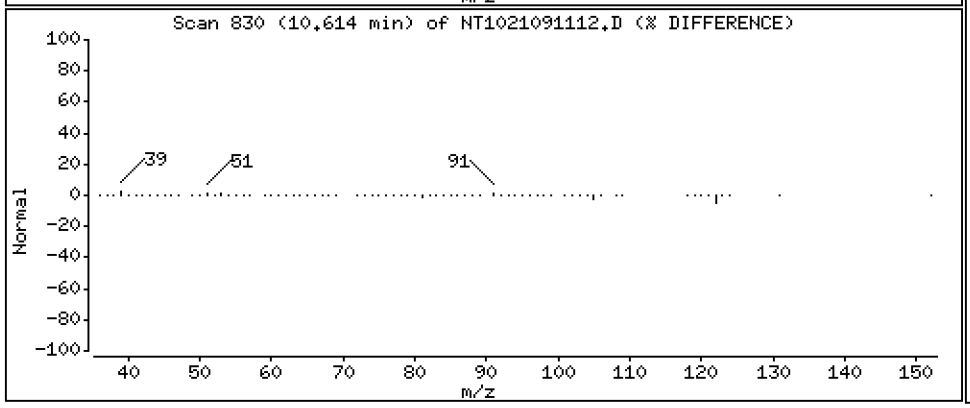
22 2,4-Dimethylphenol

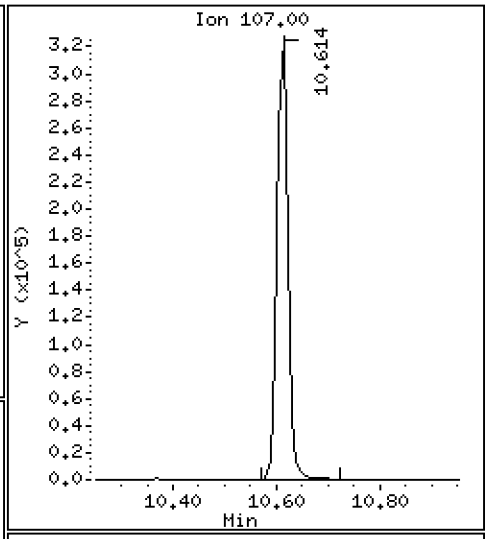
Concentration: 12.48 ug/mL

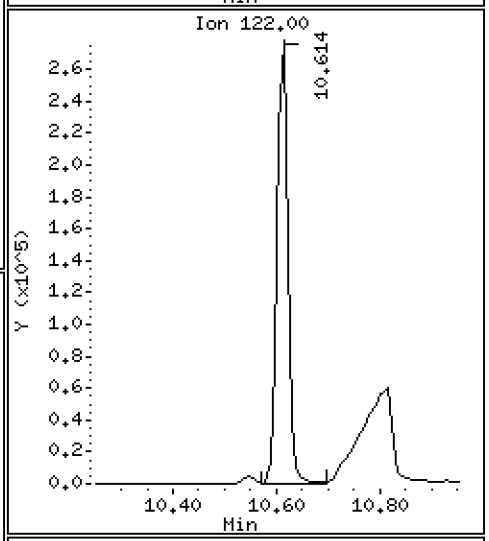


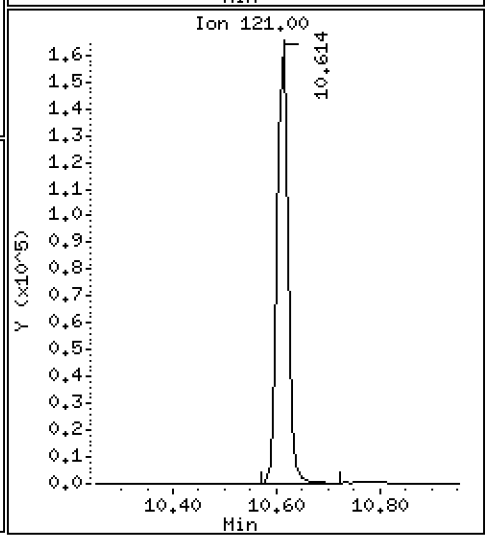












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

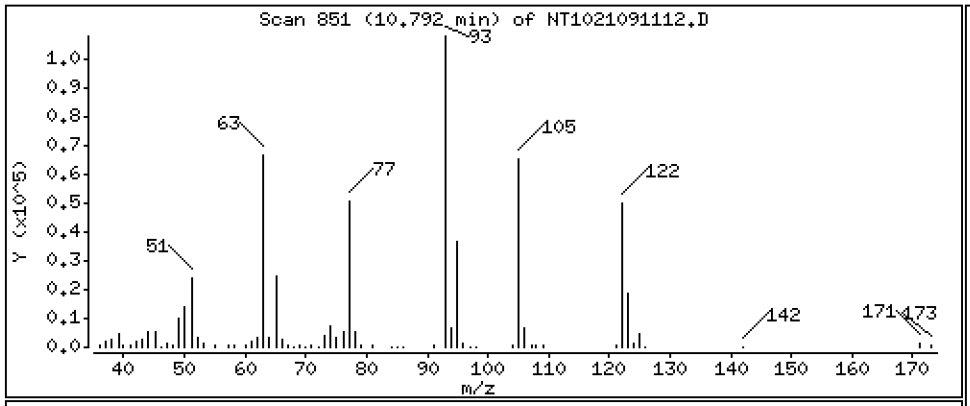
Operator: VTS

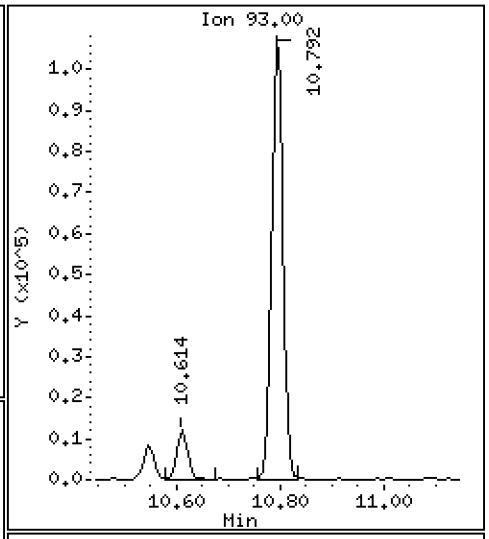
Column phase: ZB-5msi

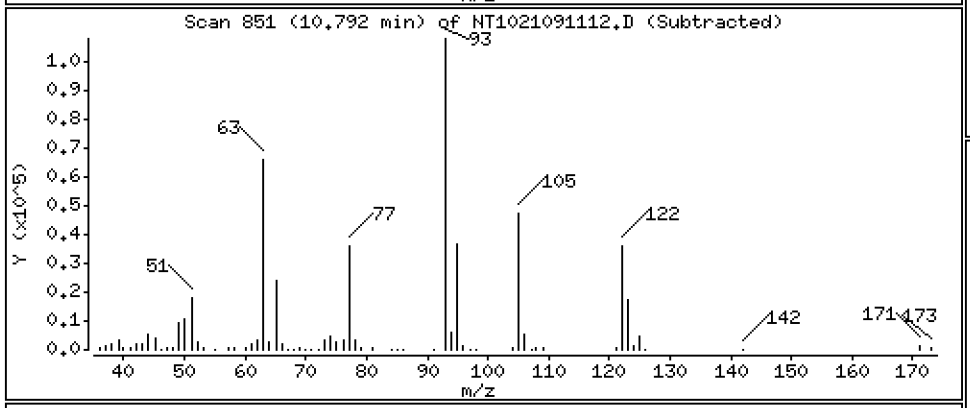
Column diameter: 0.25

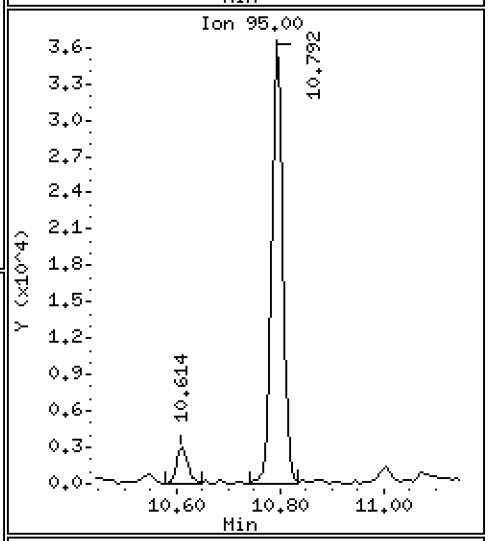
23 Bis(2-Chloroethoxy)methane

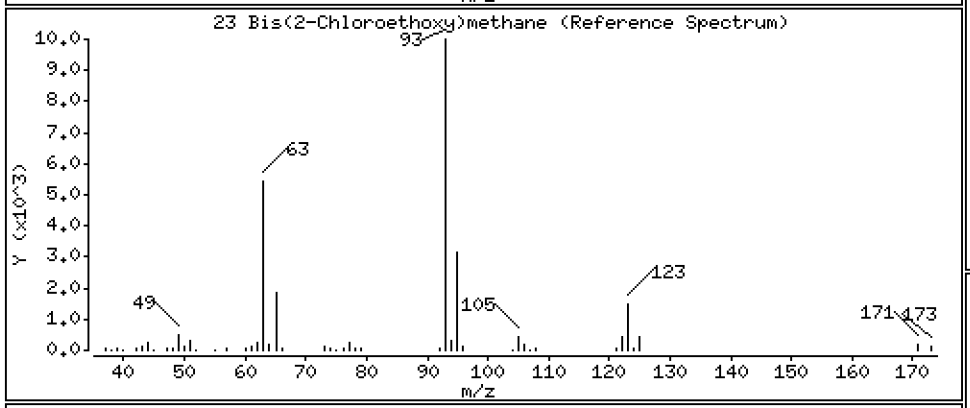
Concentration: 4.000 ug/mL

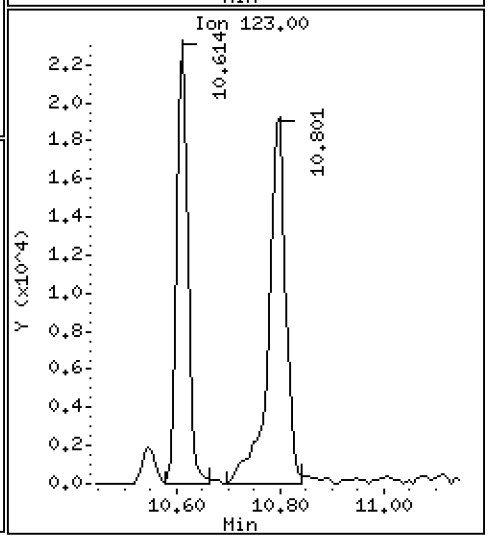


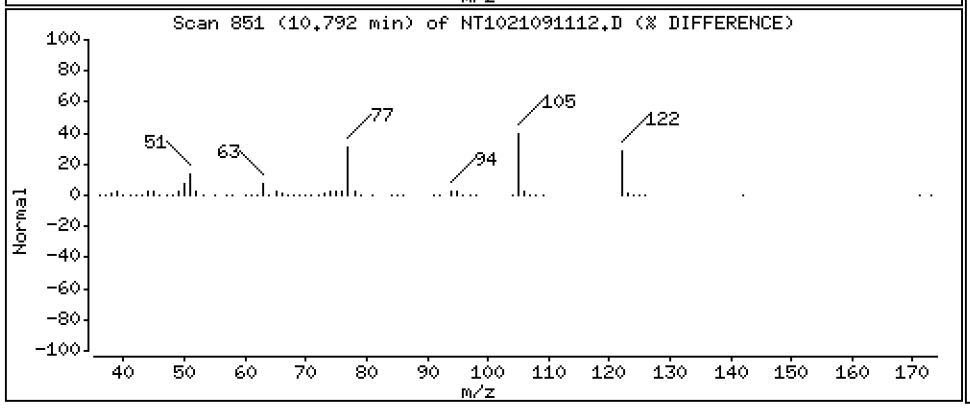












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

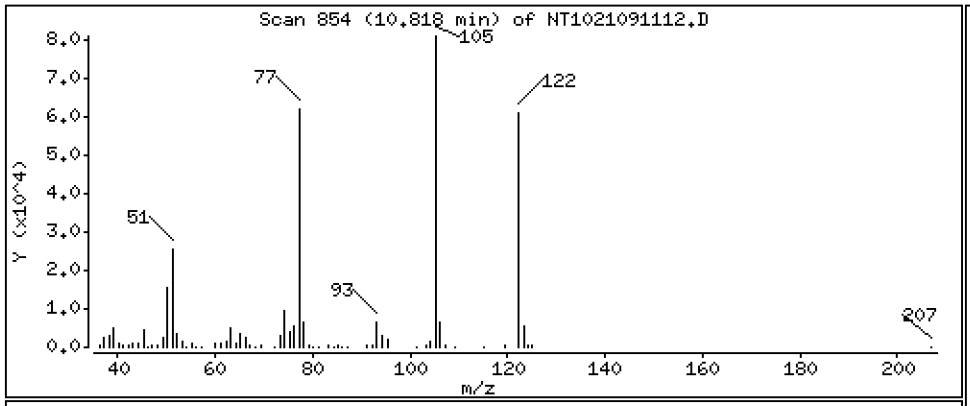
Operator: VTS

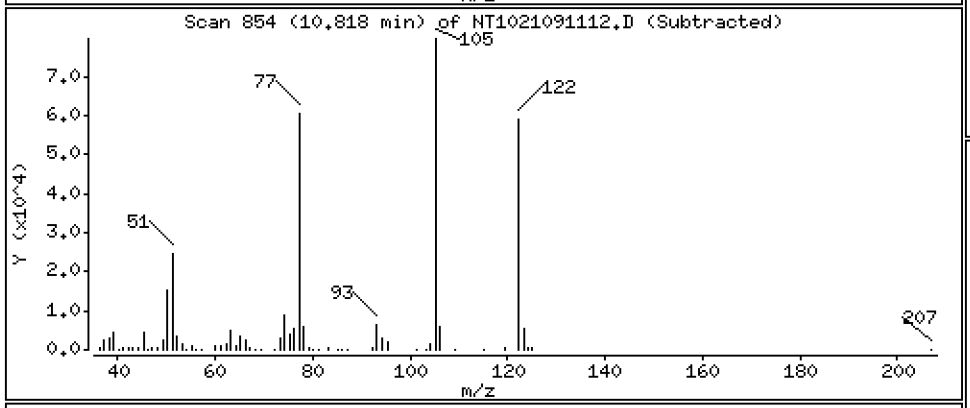
Column phase: ZB-5msi

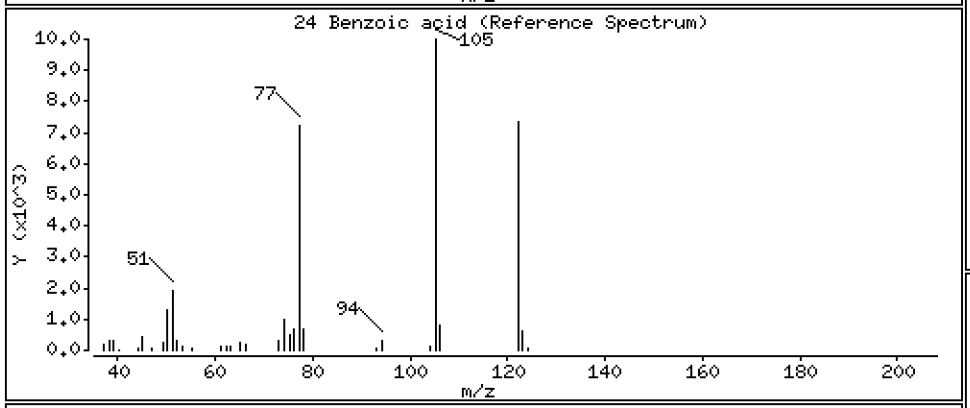
Column diameter: 0.25

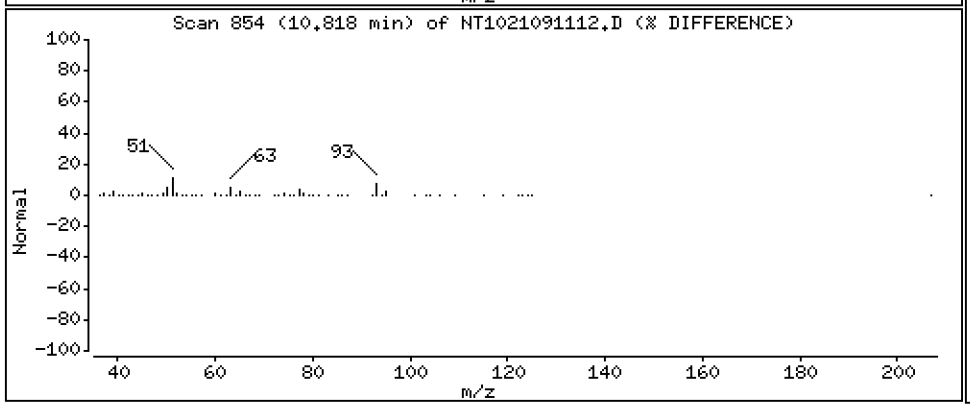
24 Benzoic acid

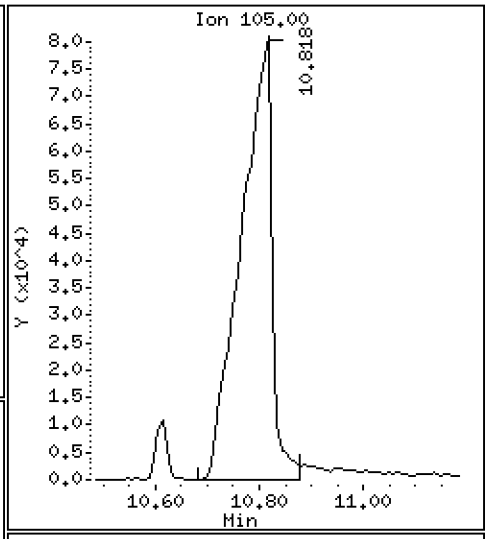
Concentration: 16.79 ug/mL

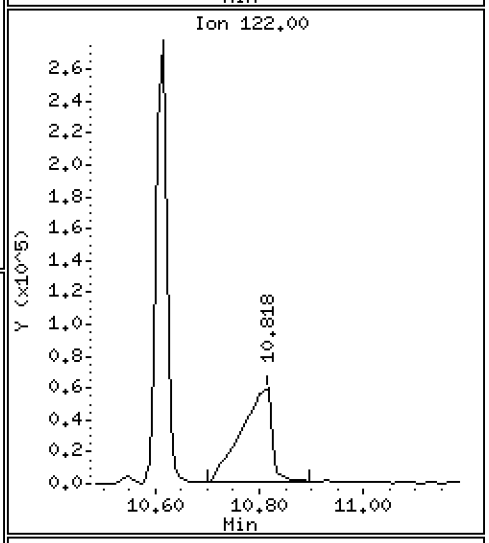


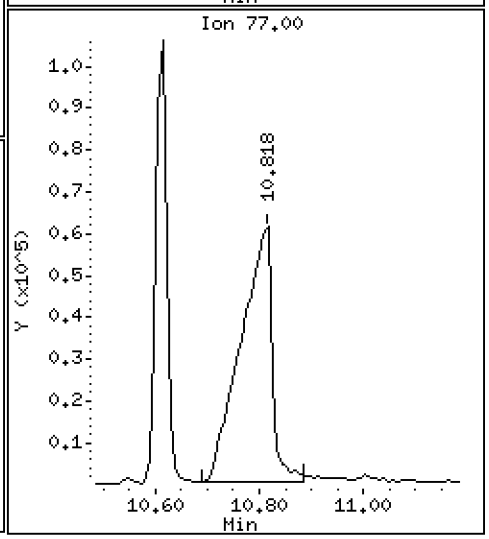












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

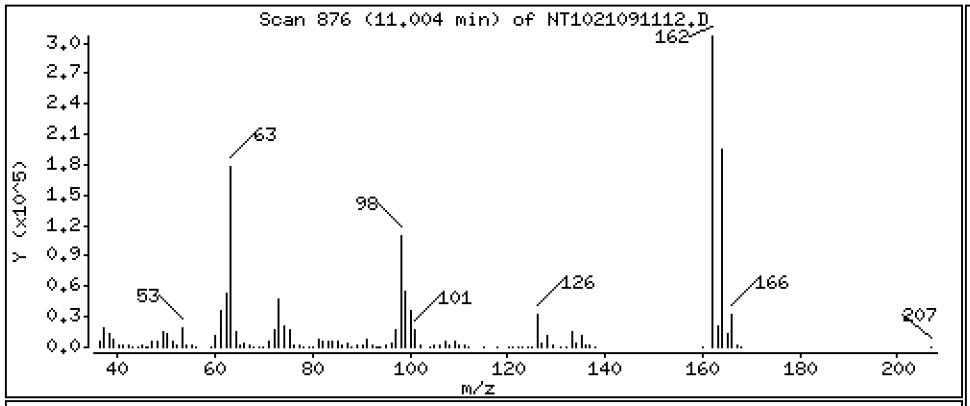
Operator: VTS

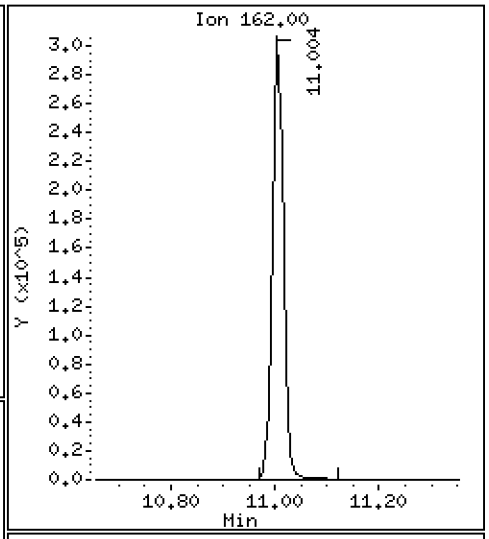
Column phase: ZB-5msi

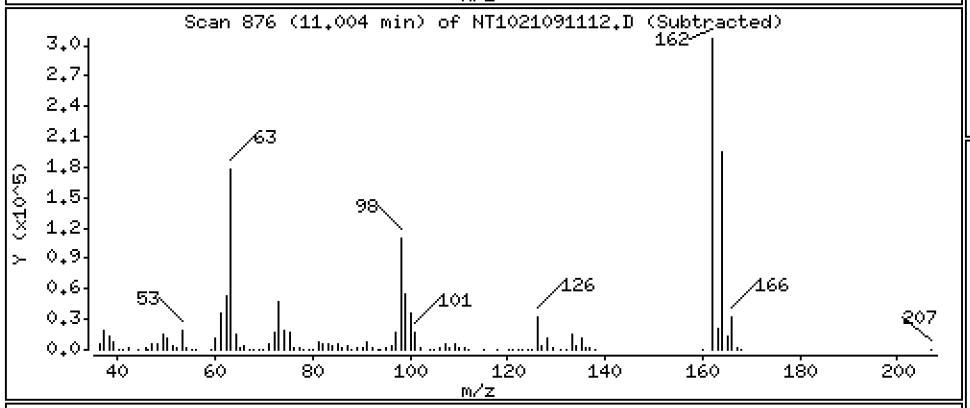
Column diameter: 0.25

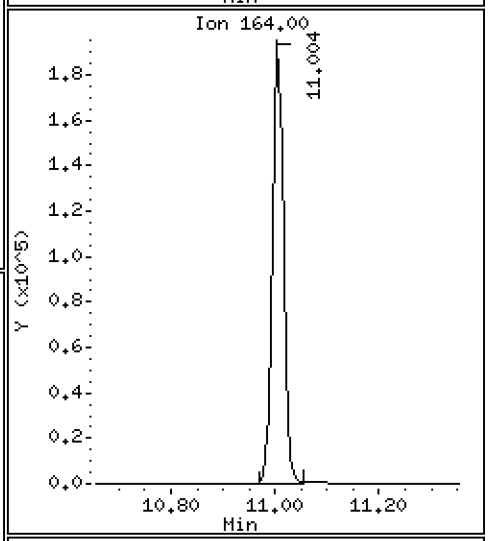
25 2,4-Dichlorophenol

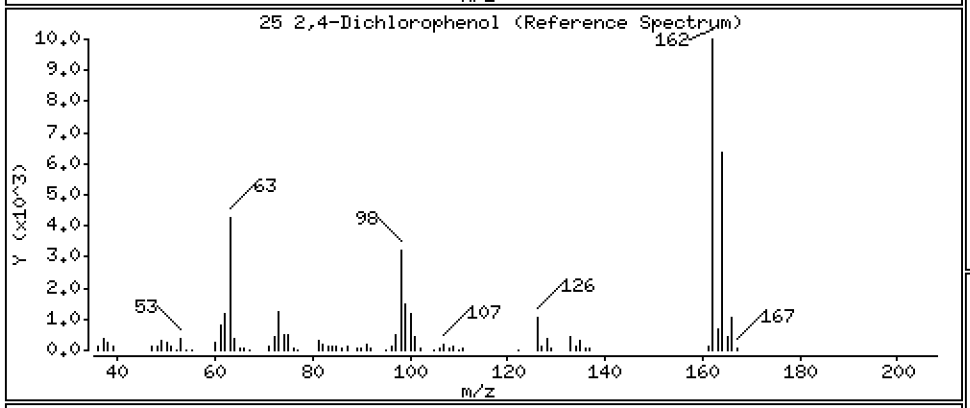
Concentration: 12.49 ug/mL

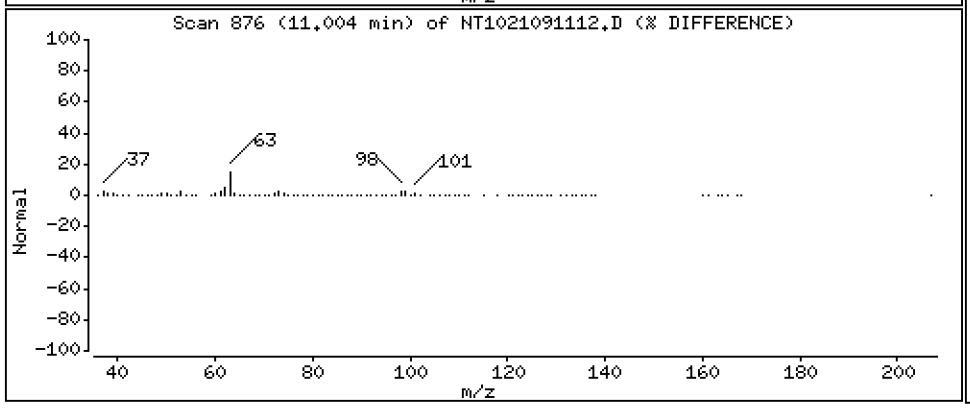


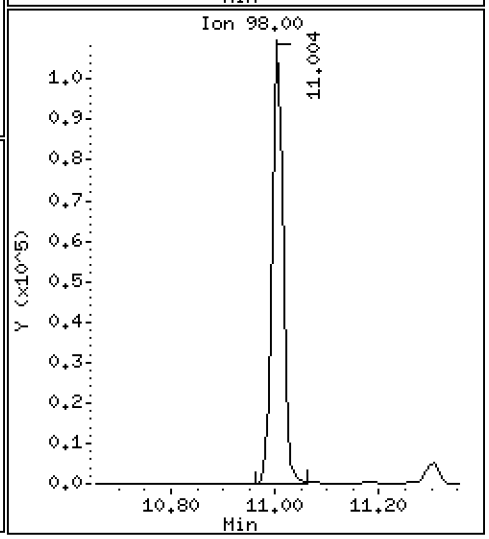












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

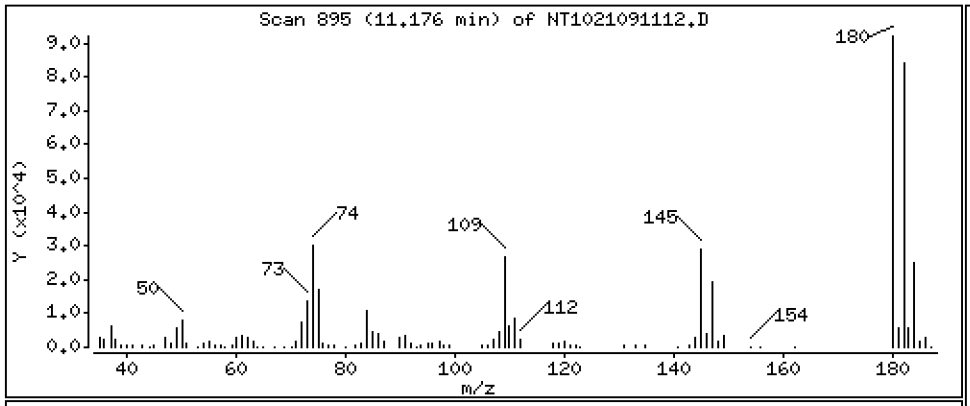
Operator: VTS

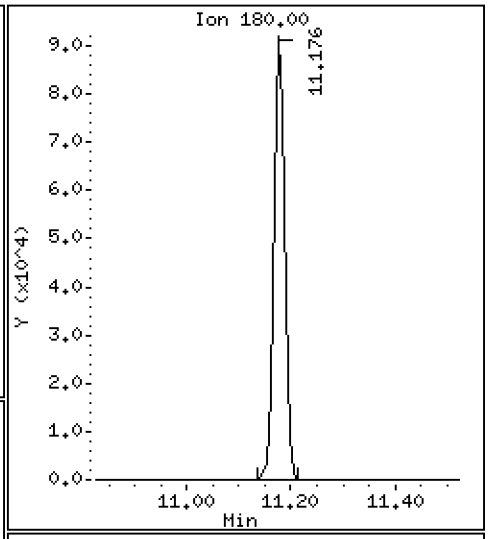
Column phase: ZB-5msi

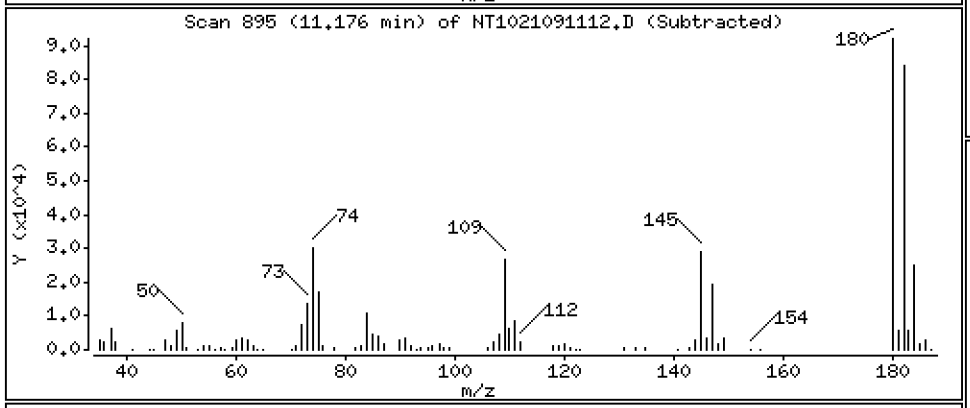
Column diameter: 0.25

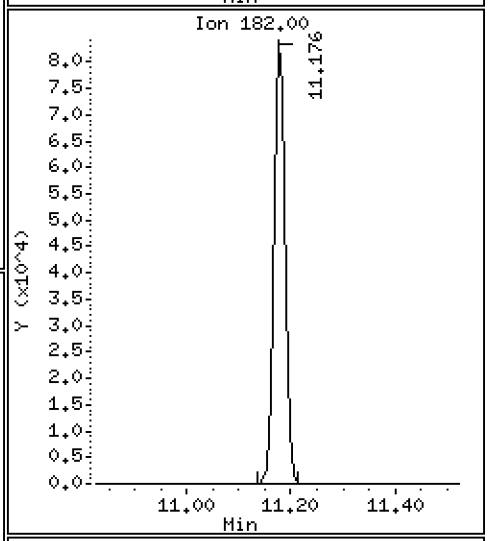
26 1,2,4-Trichlorobenzene

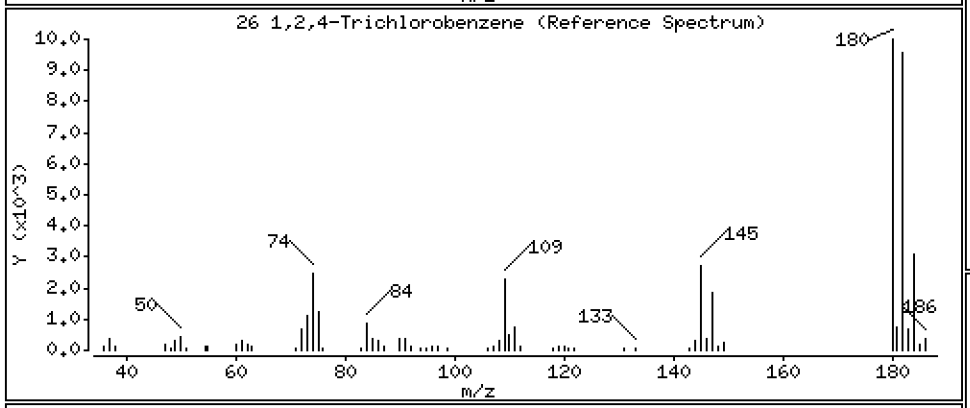
Concentration: 3.618 ug/mL

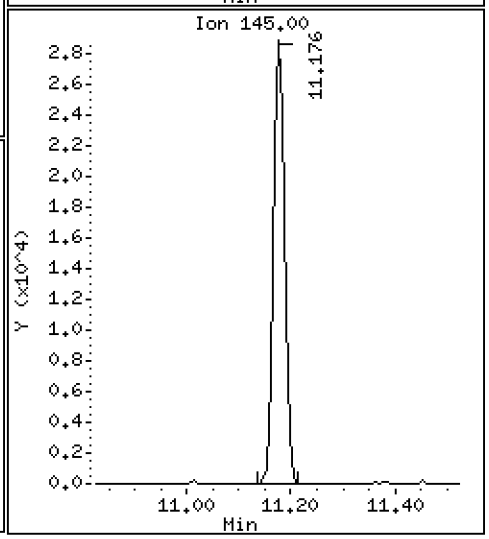


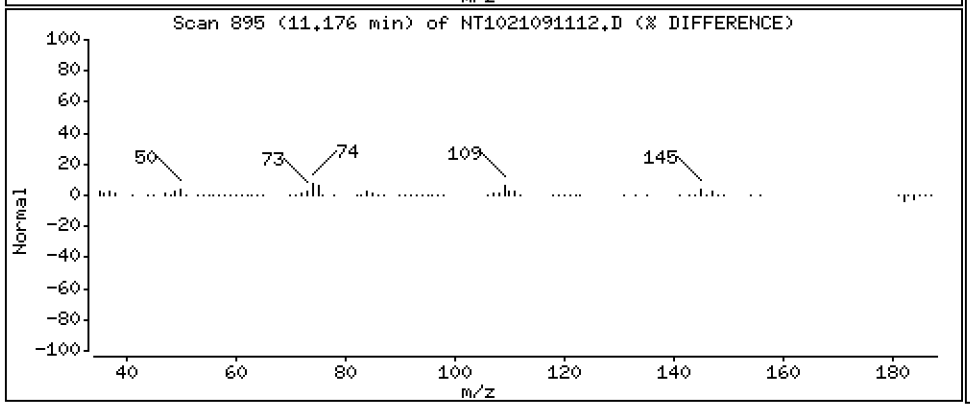












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

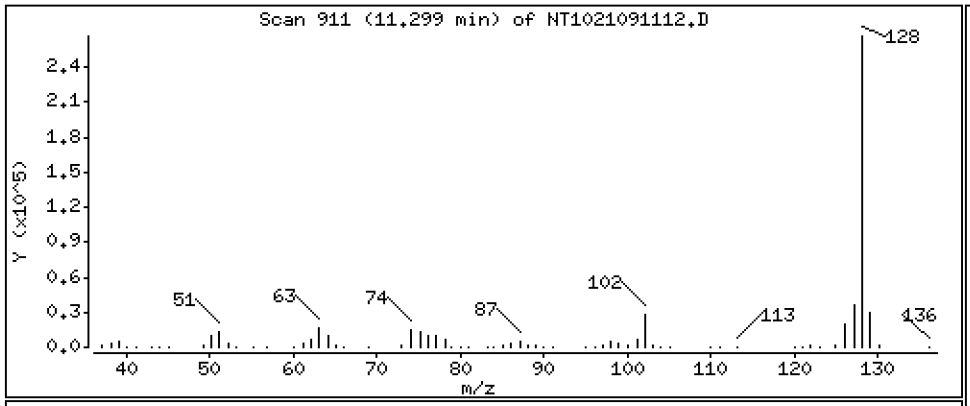
Operator: VTS

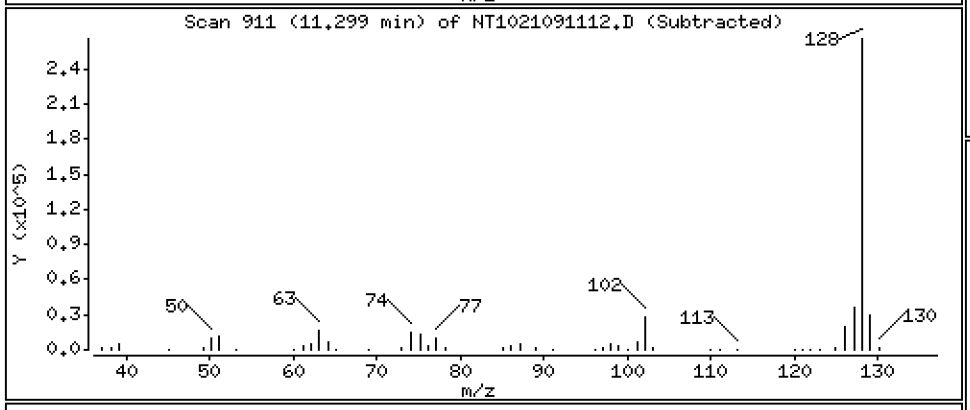
Column phase: ZB-5msi

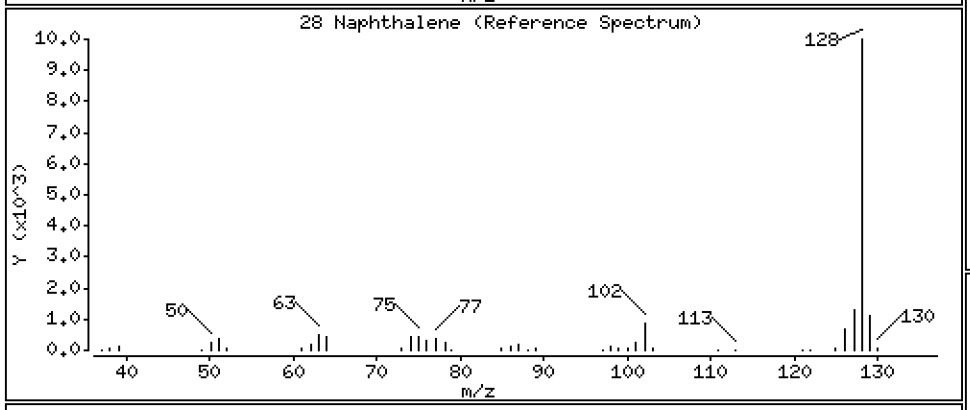
Column diameter: 0.25

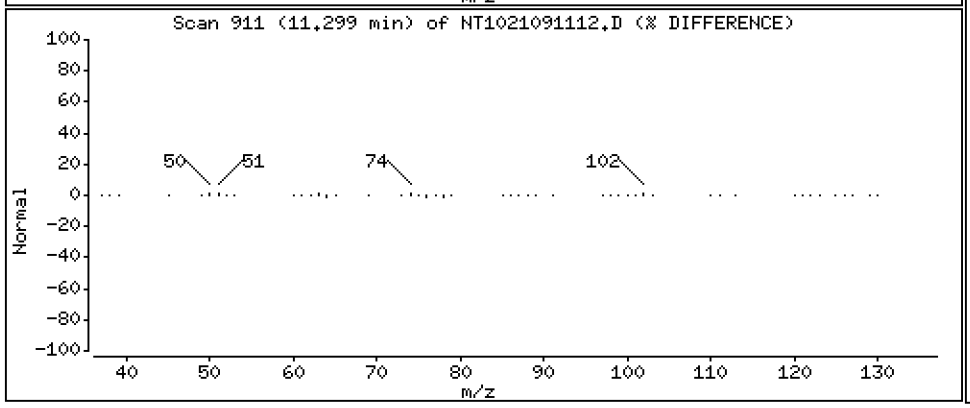
28 Naphthalene

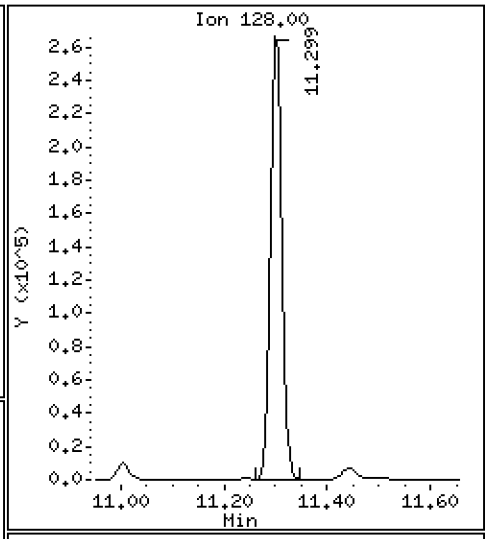
Concentration: 3.738 ug/mL

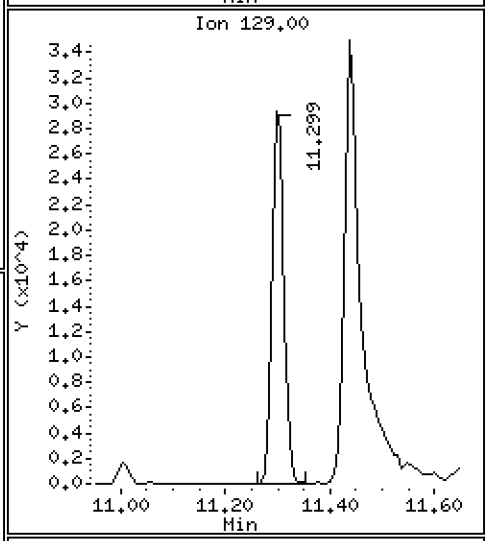


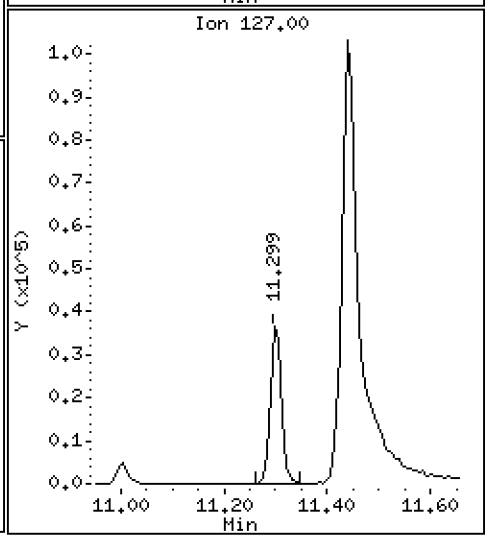












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

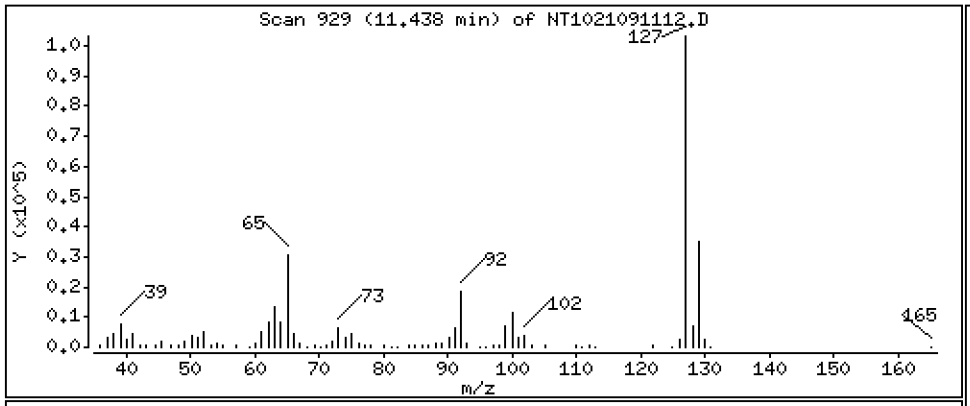
Operator: VTS

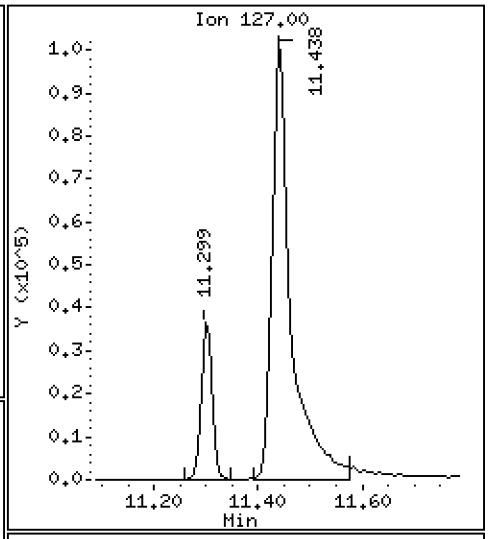
Column phase: ZB-5msi

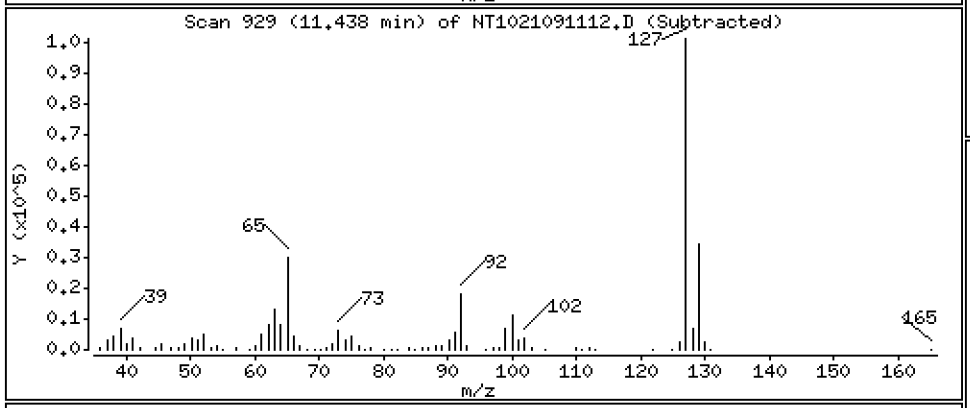
Column diameter: 0.25

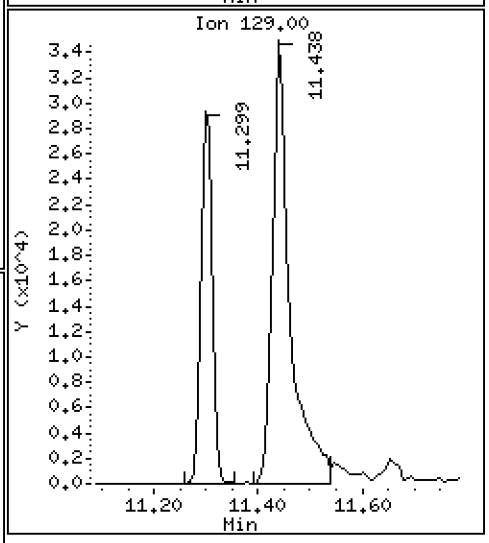
29 4-Chloroaniline

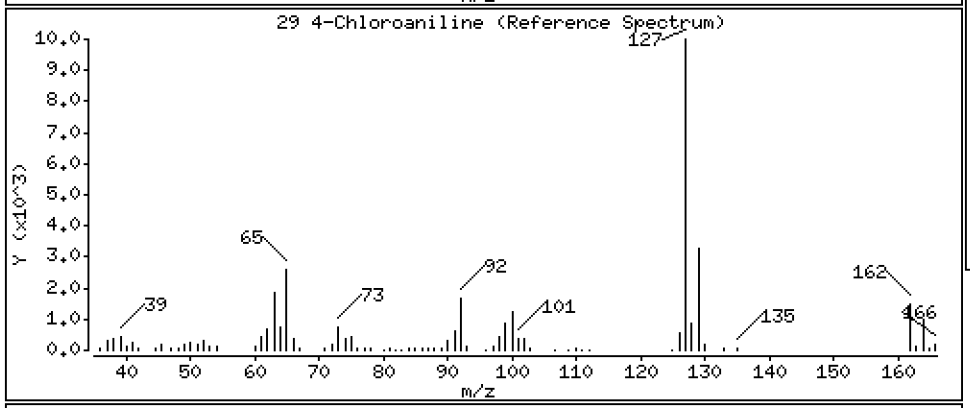
Concentration: 5.049 ug/mL

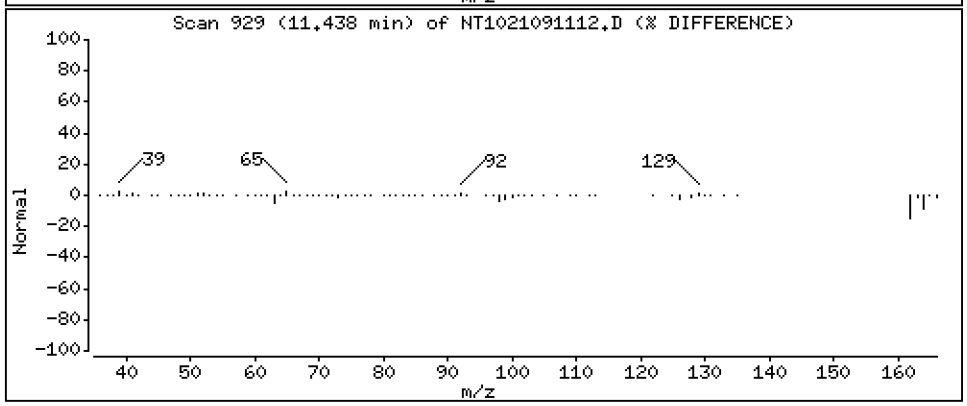












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

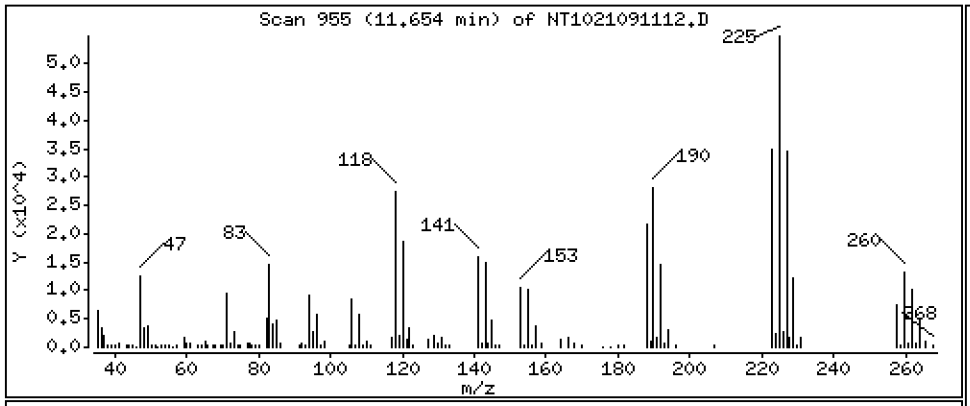
Operator: VTS

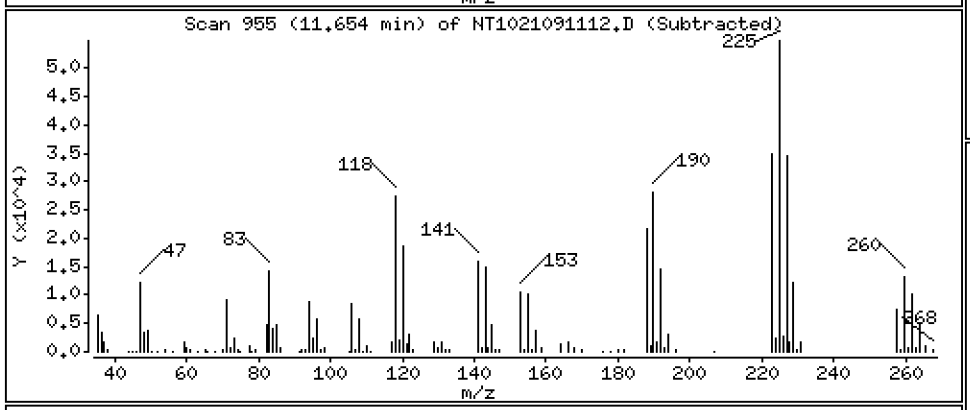
Column phase: ZB-5msi

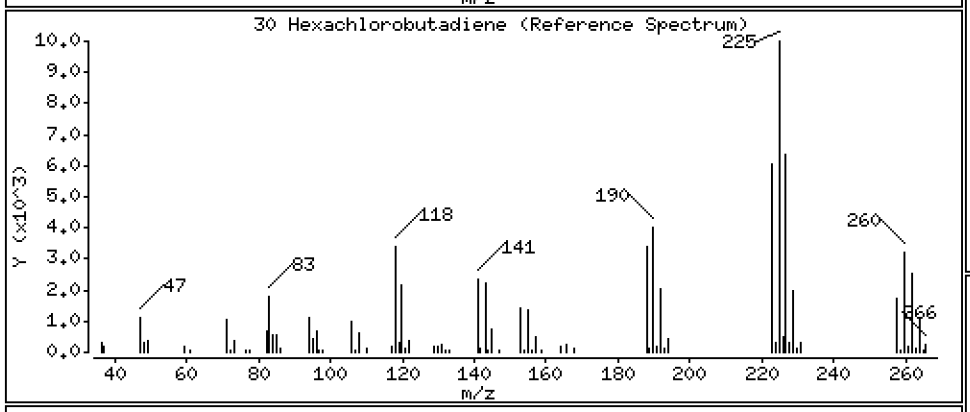
Column diameter: 0.25

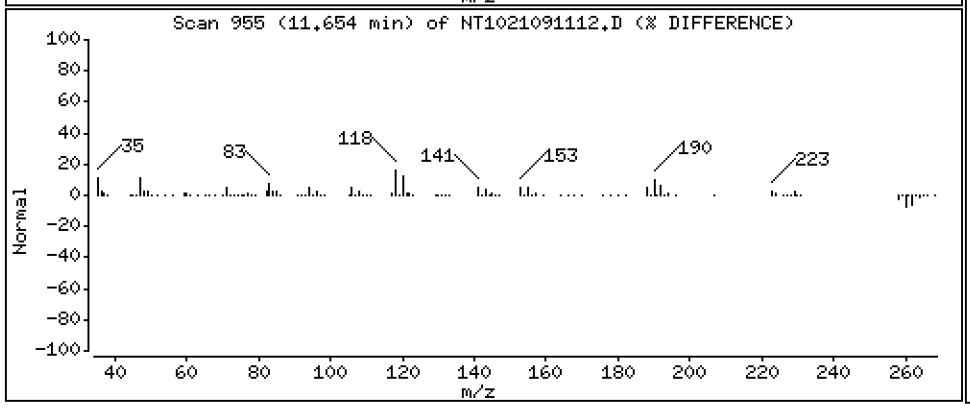
30 Hexachlorobutadiene

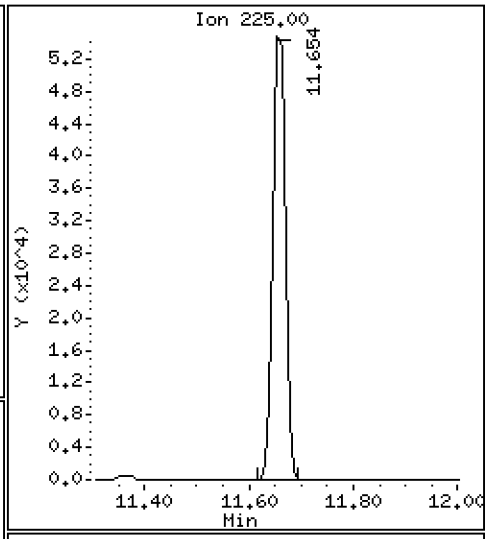
Concentration: 4.097 ug/mL

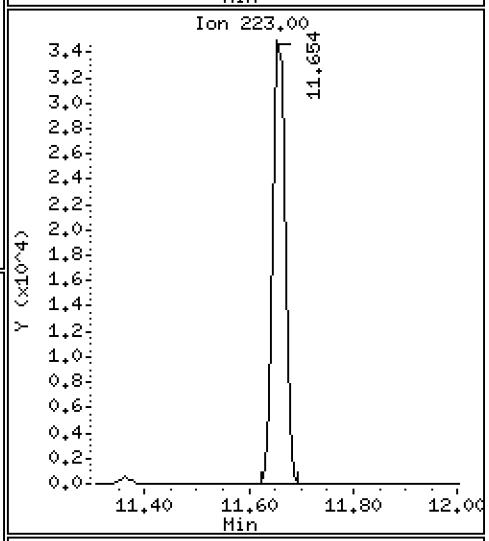


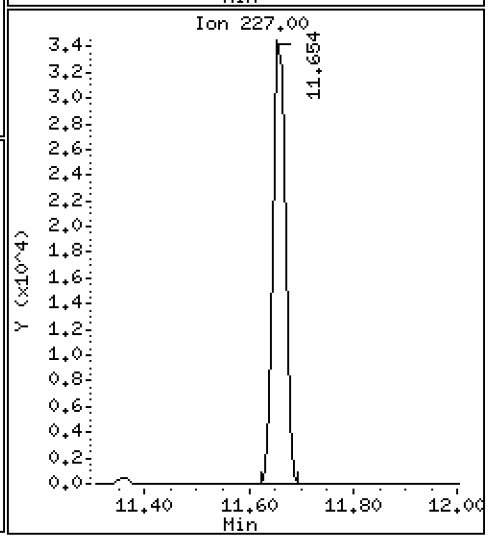












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

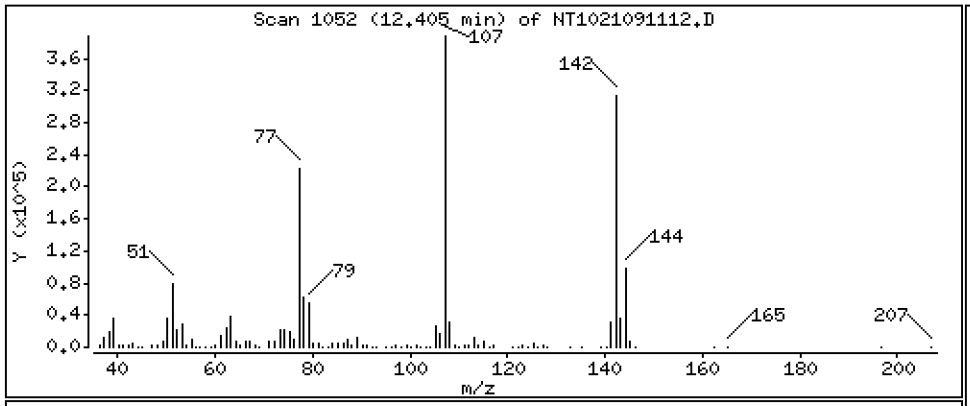
Operator: VTS

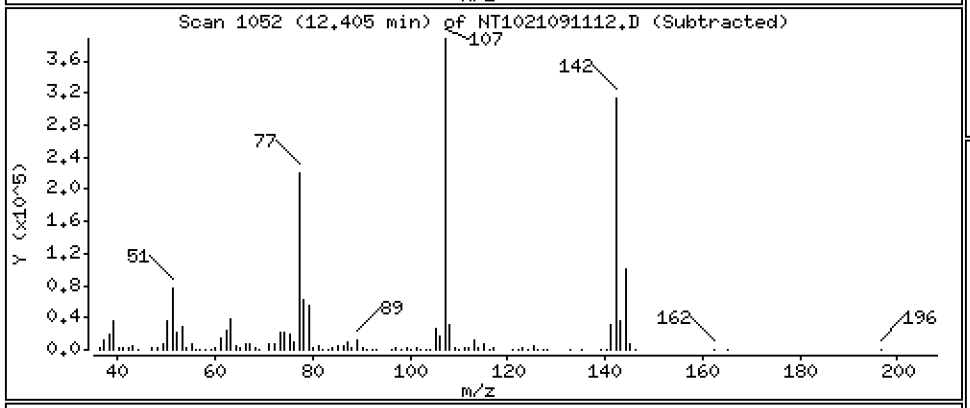
Column phase: ZB-5msi

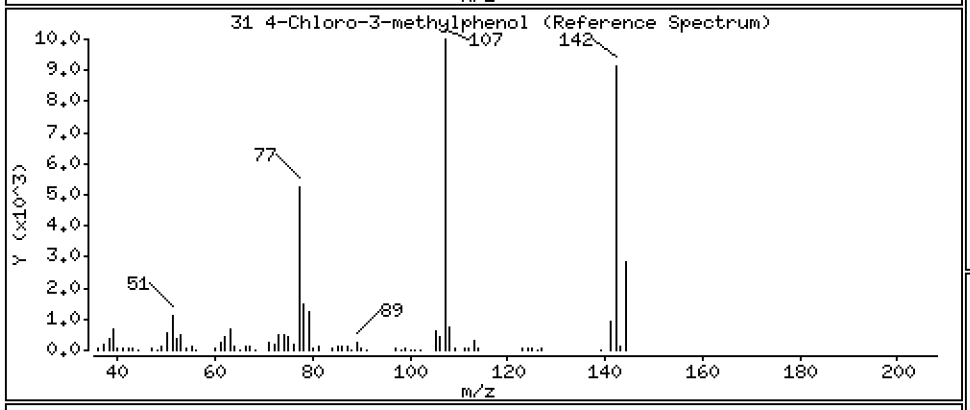
Column diameter: 0.25

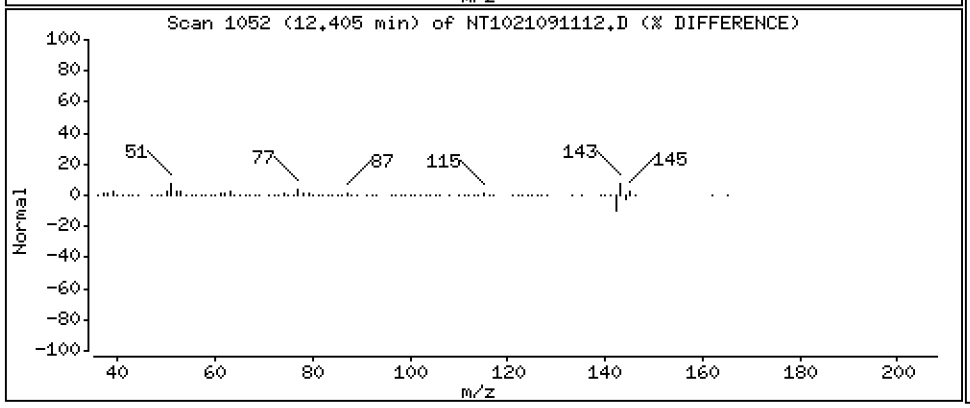
31 4-Chloro-3-methylphenol

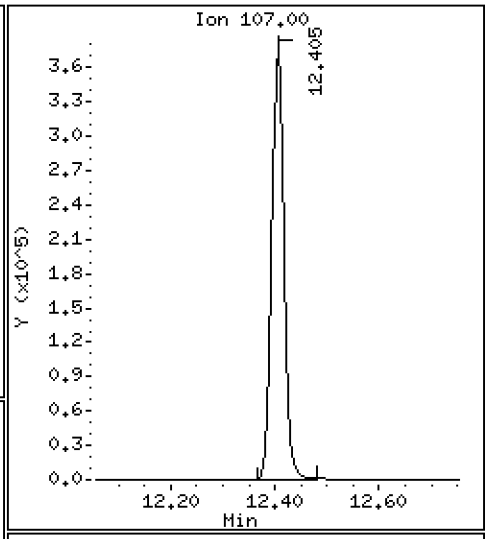
Concentration: 14.51 ug/mL

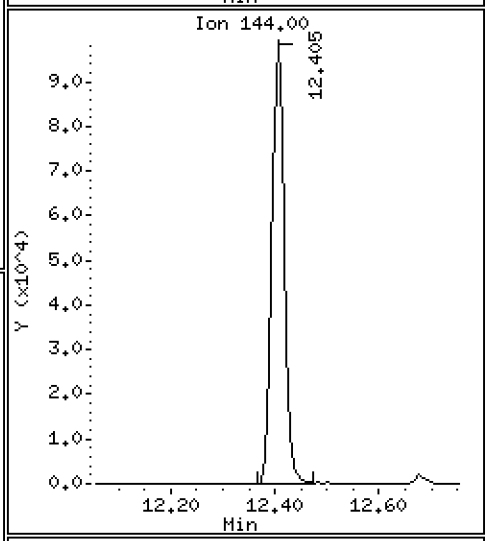


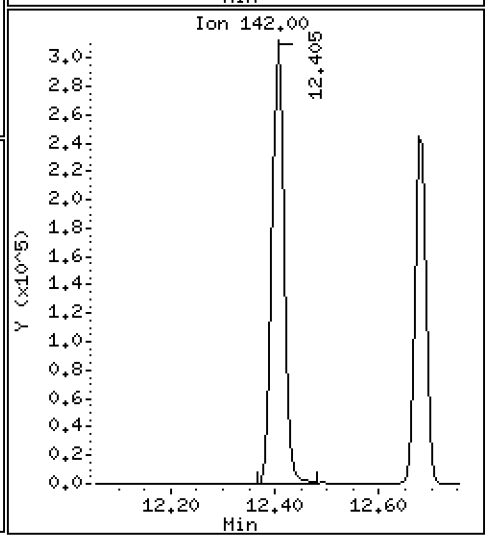












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

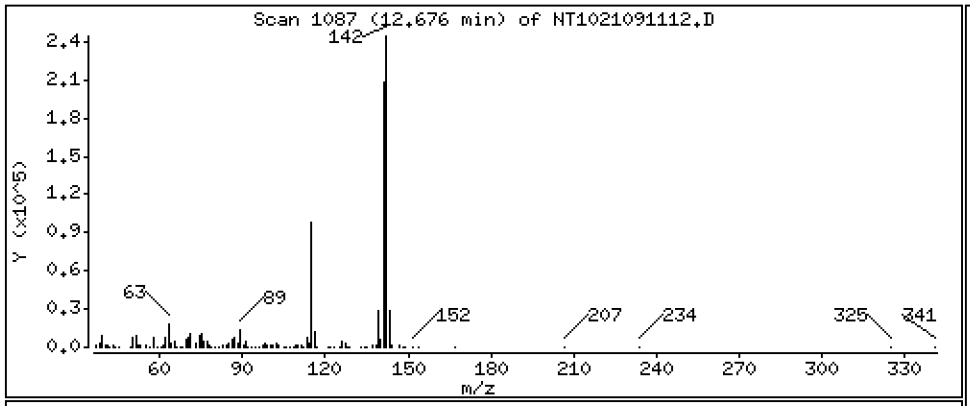
Operator: VTS

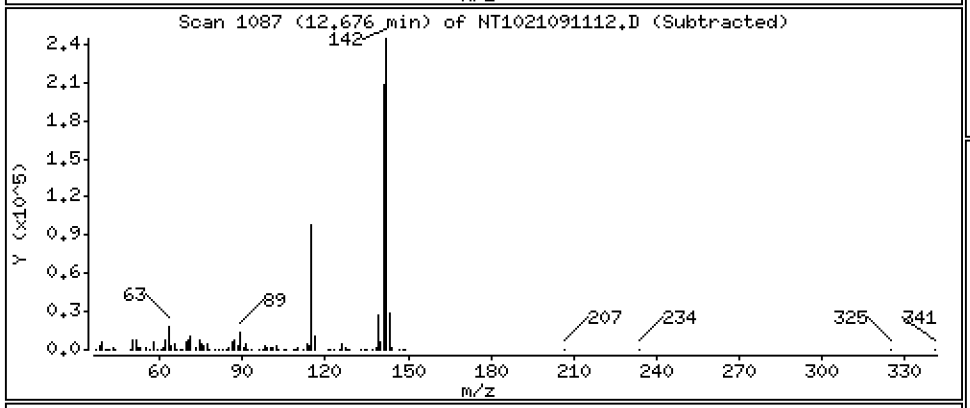
Column phase: ZB-5msi

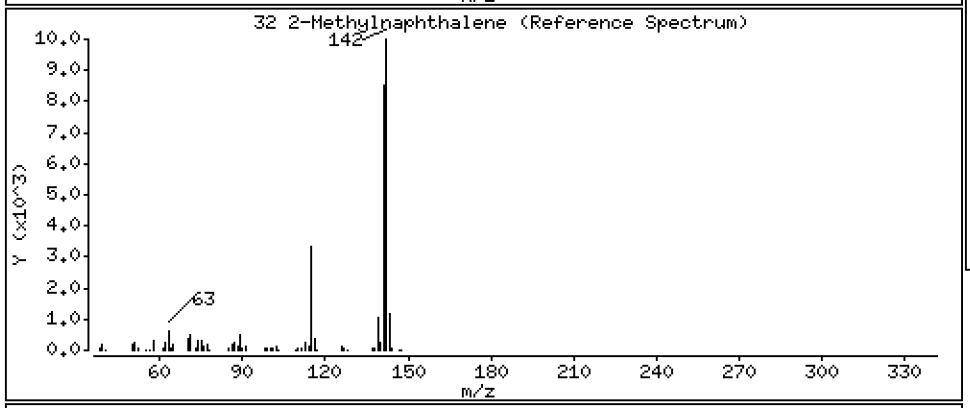
Column diameter: 0.25

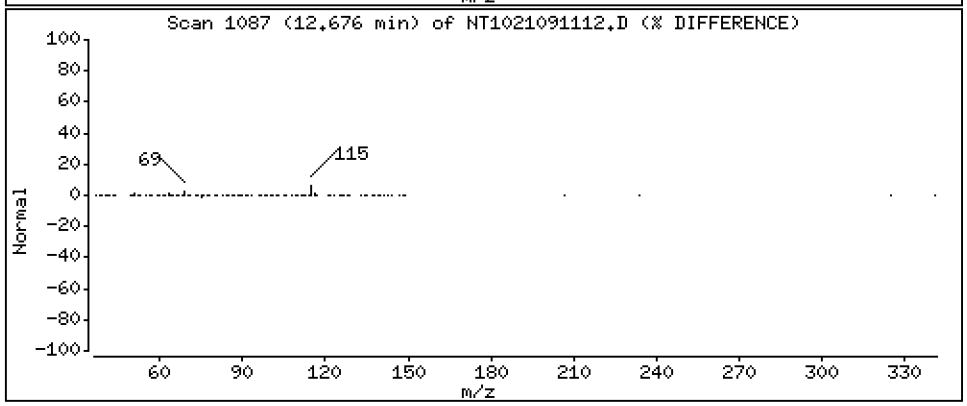
32 2-Methylnaphthalene

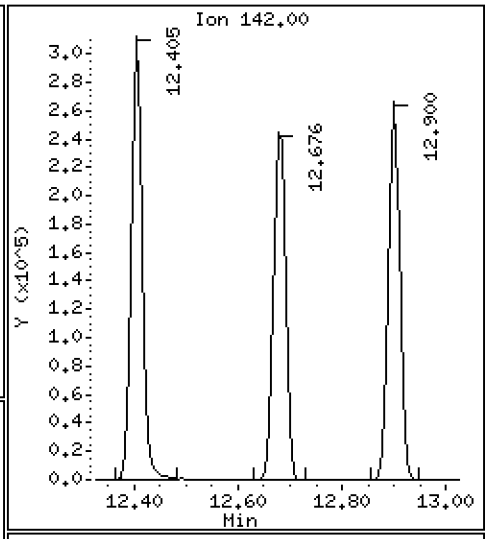
Concentration: 3.579 ug/mL

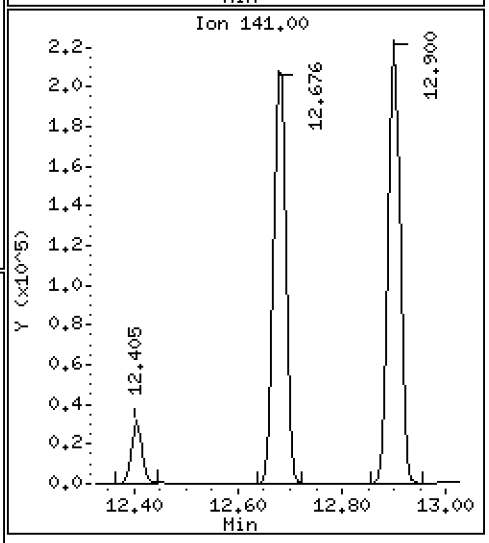












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

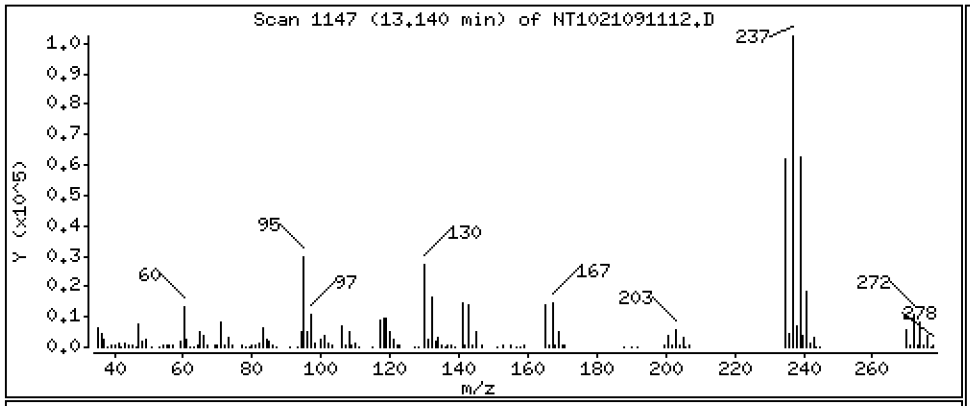
Operator: VTS

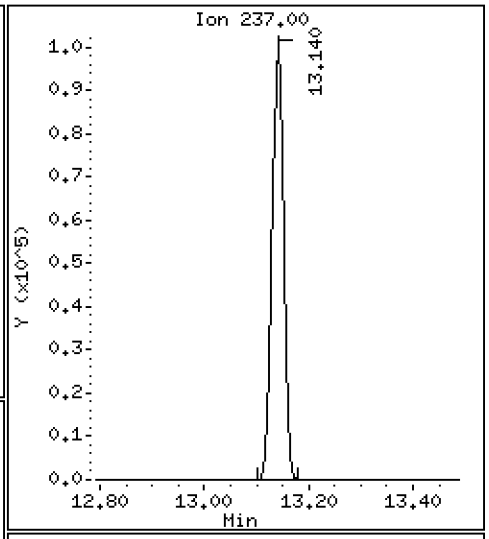
Column phase: ZB-5msi

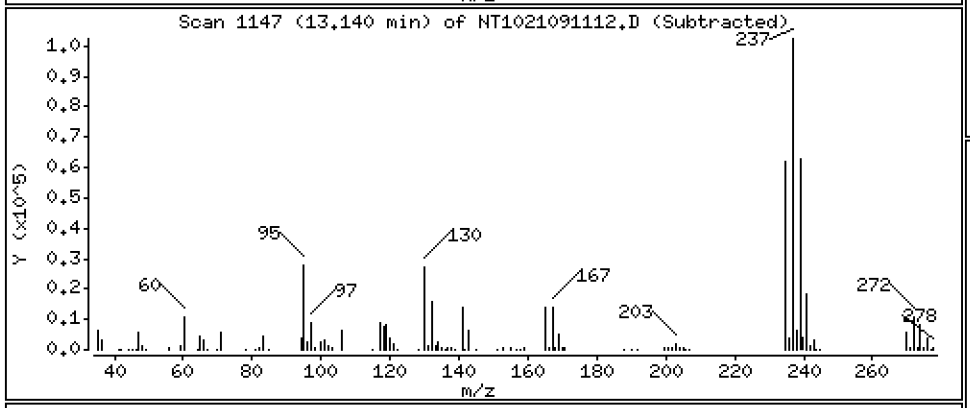
Column diameter: 0.25

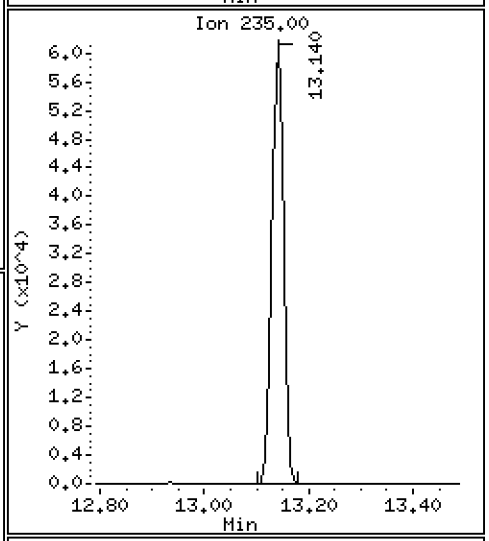
33 Hexachlorocyclopentadiene

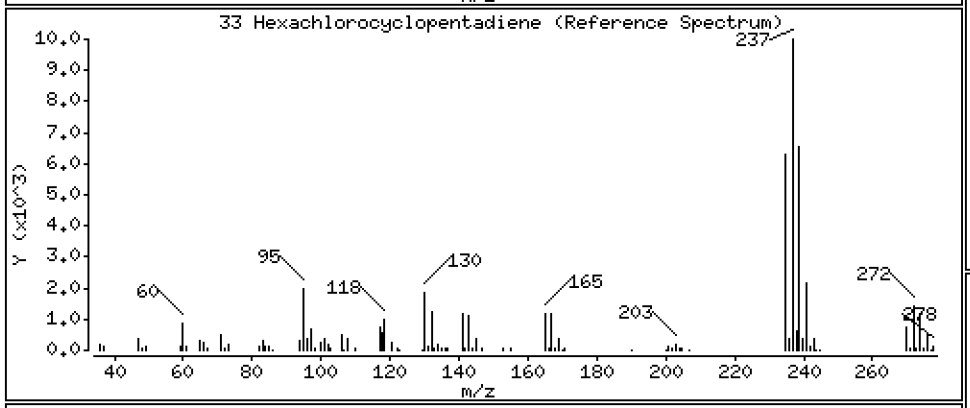
Concentration: 7.536 ug/mL

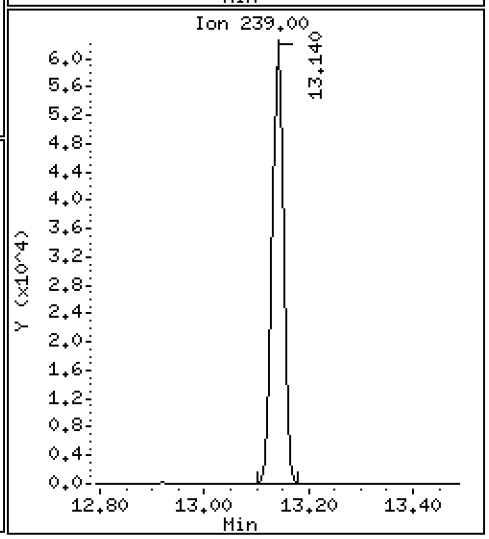


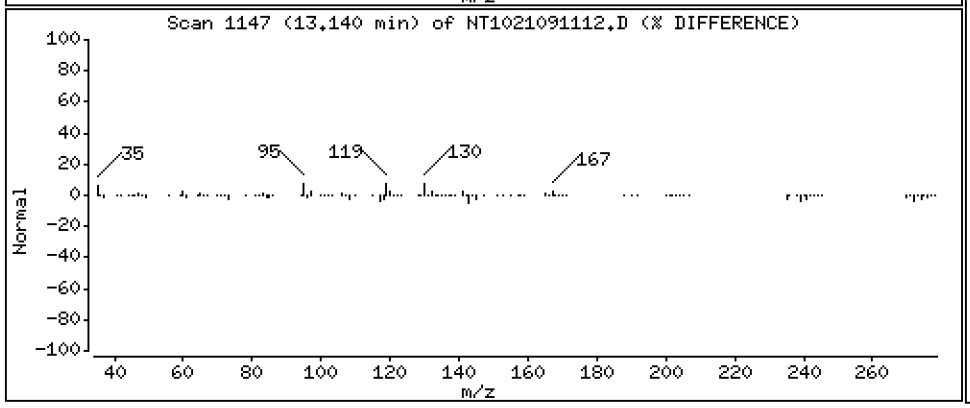












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

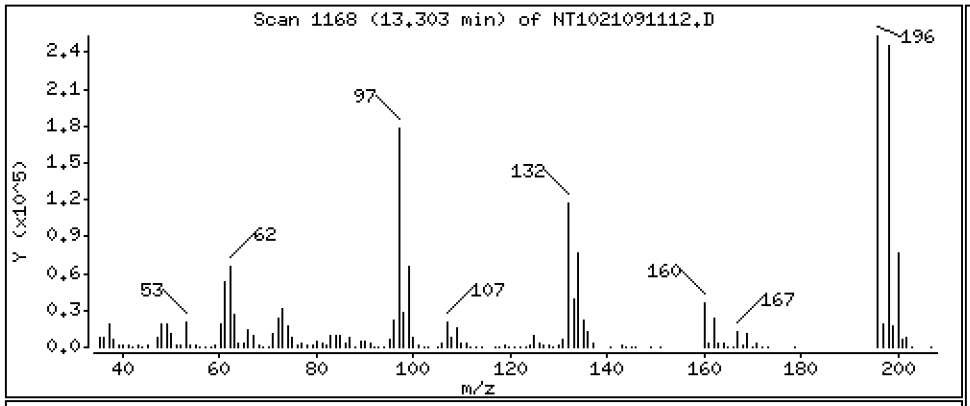
Operator: VTS

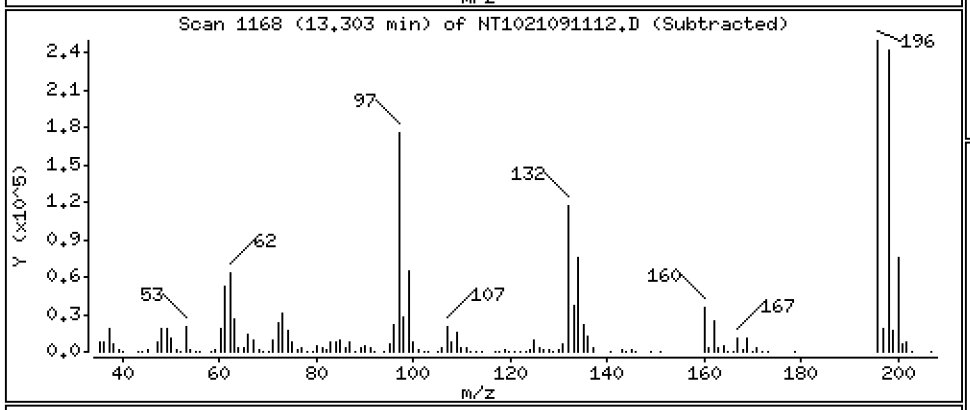
Column phase: ZB-5msi

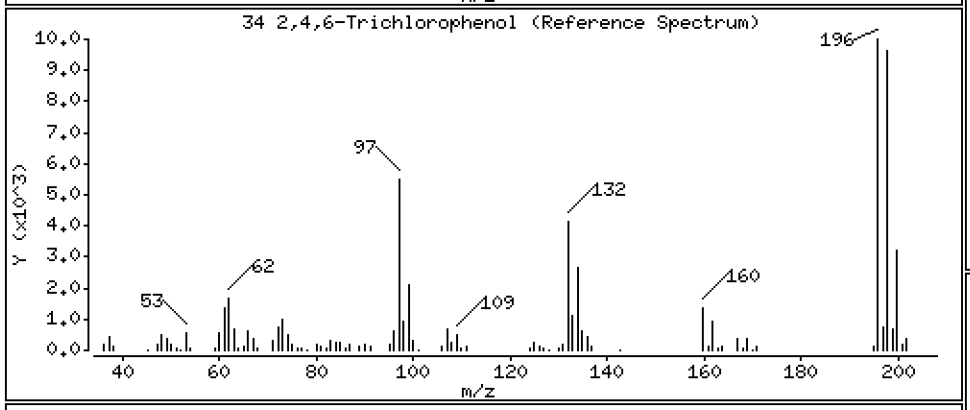
Column diameter: 0.25

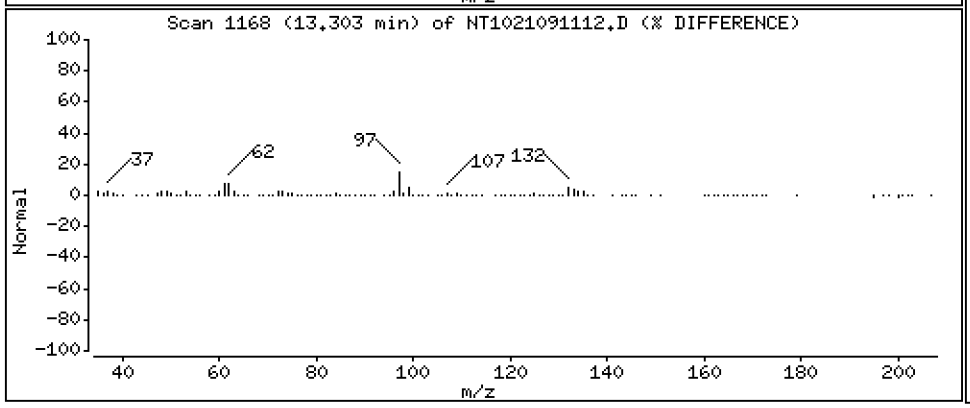
34 2,4,6-Trichlorophenol

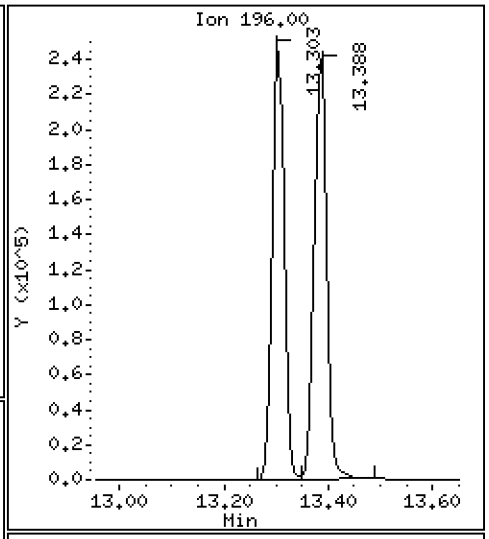
Concentration: 13.84 ug/mL

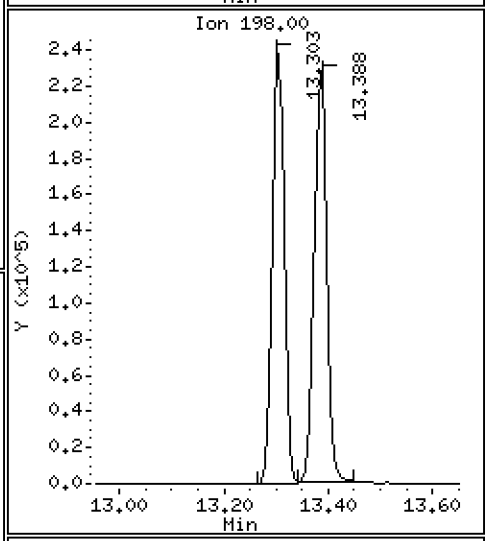


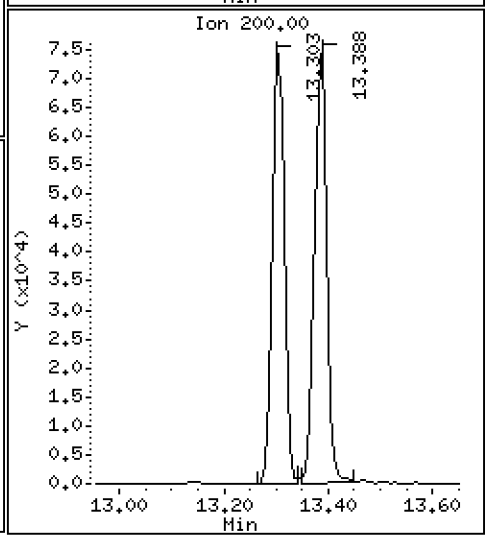












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

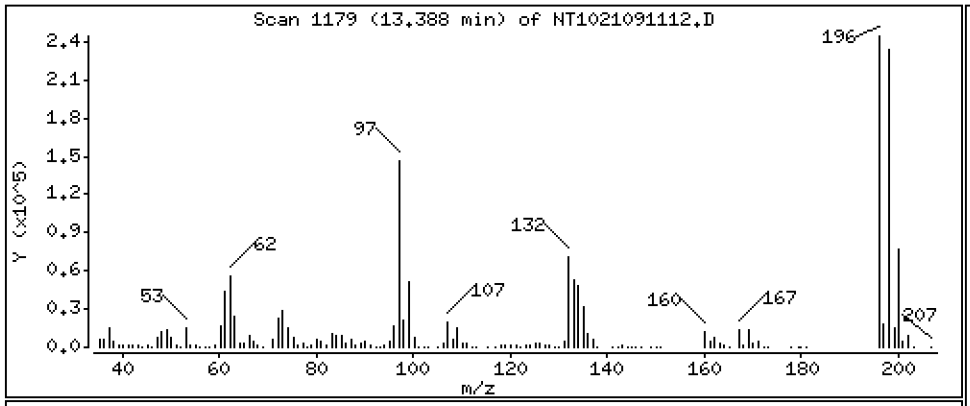
Operator: VTS

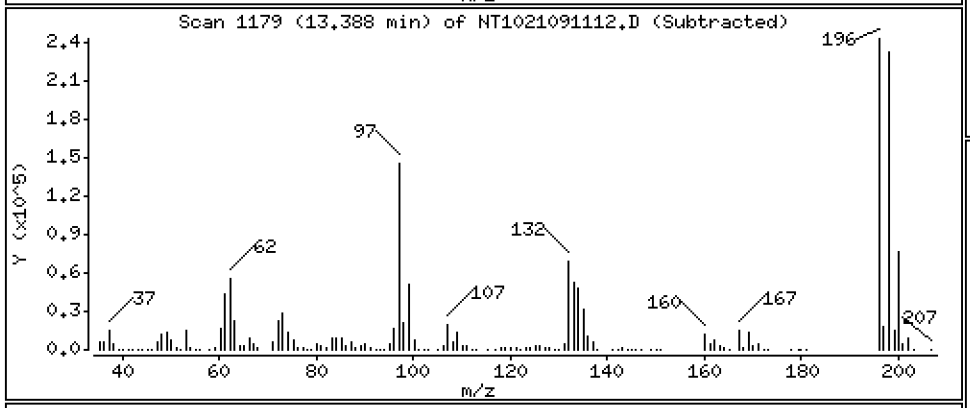
Column phase: ZB-5msi

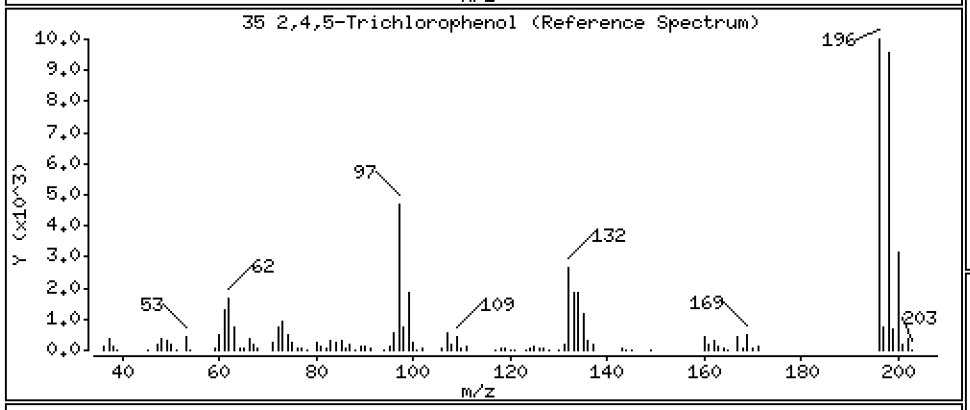
Column diameter: 0.25

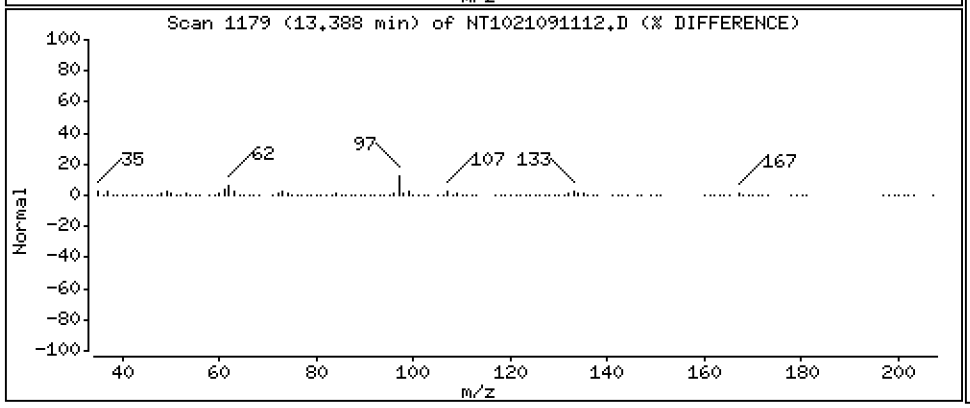
35 2,4,5-Trichlorophenol

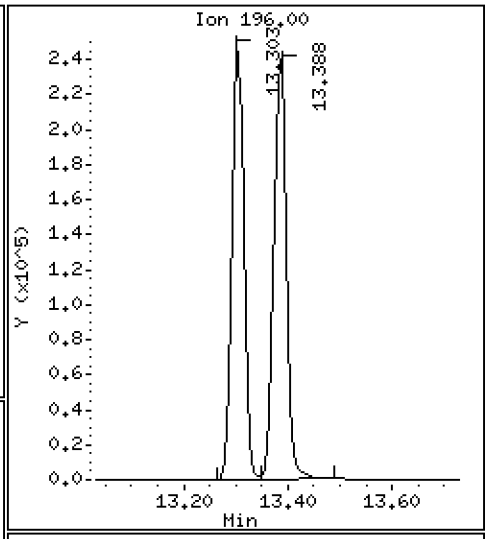
Concentration: 13.88 ug/mL

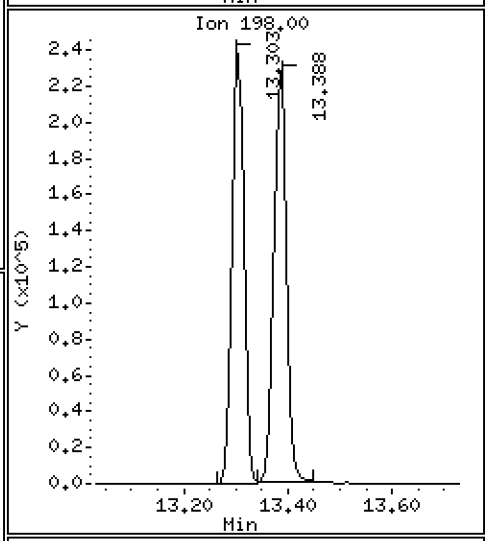


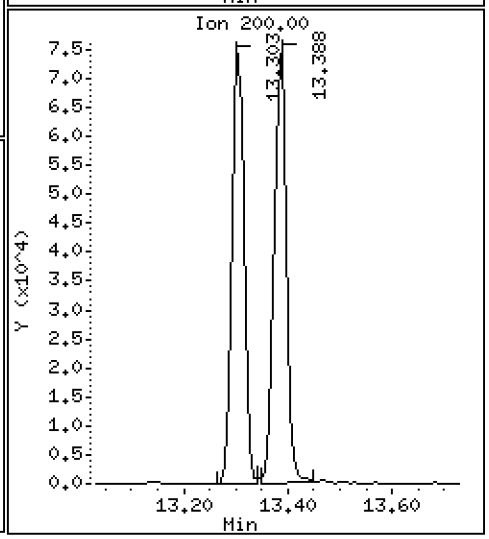












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

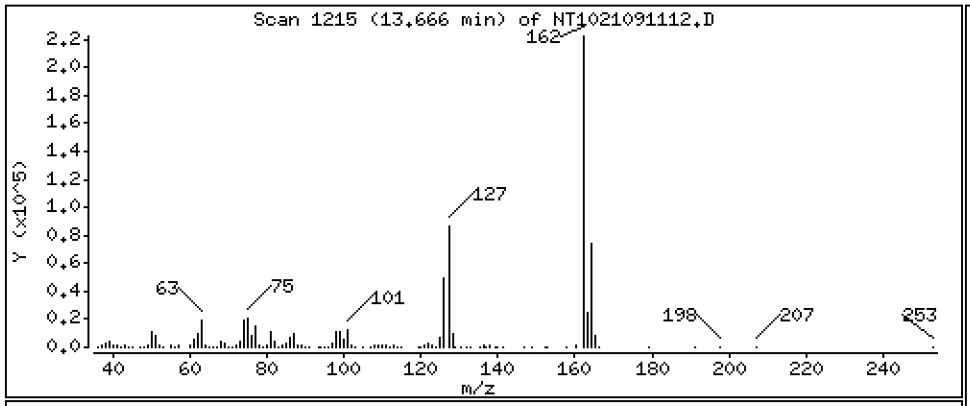
Operator: VTS

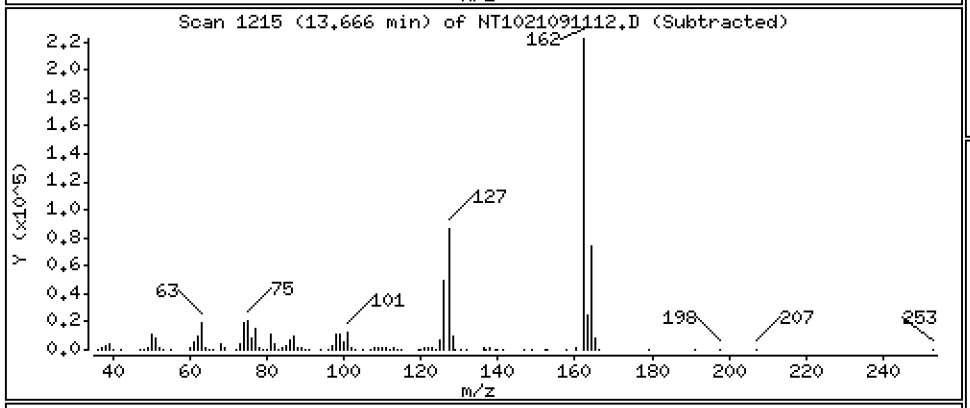
Column phase: ZB-5msi

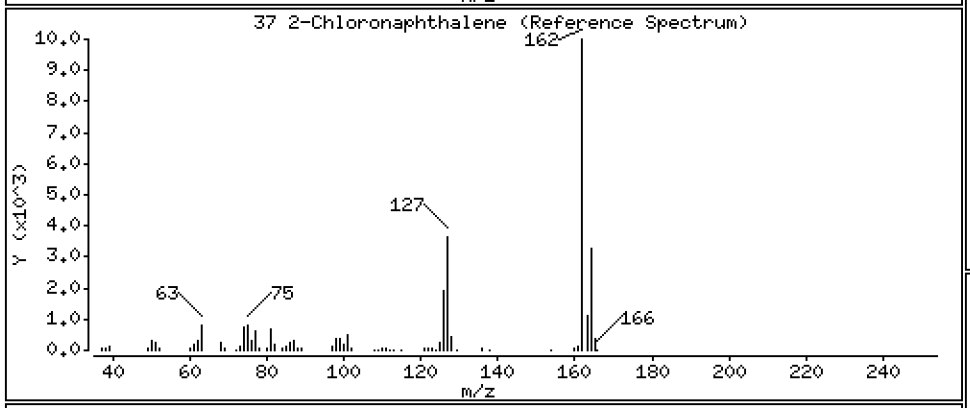
Column diameter: 0.25

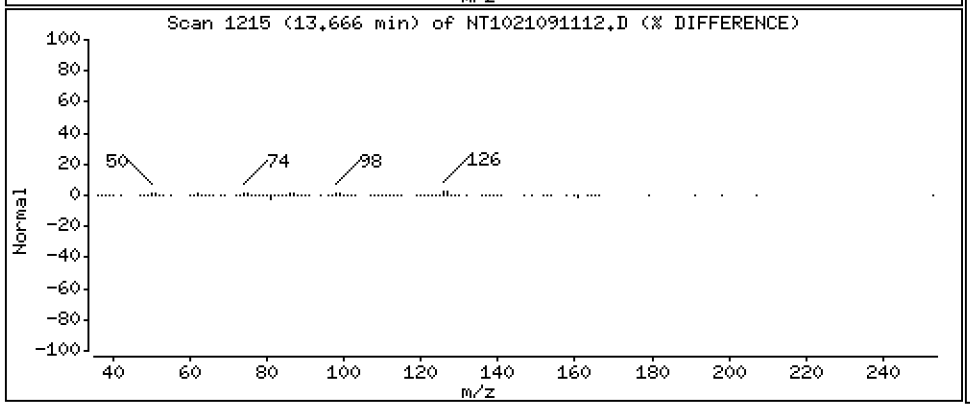
37 2-Chloronaphthalene

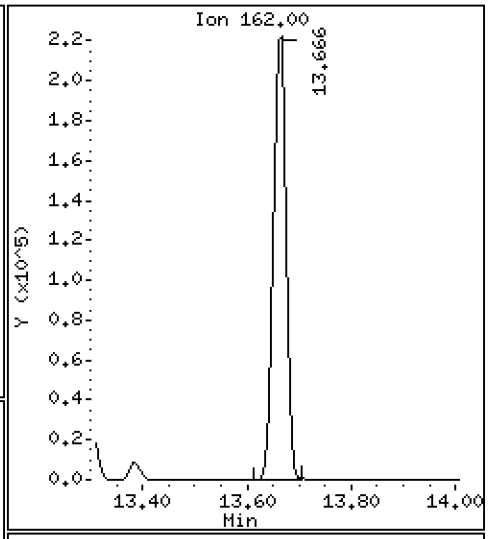
Concentration: 4.302 ug/mL

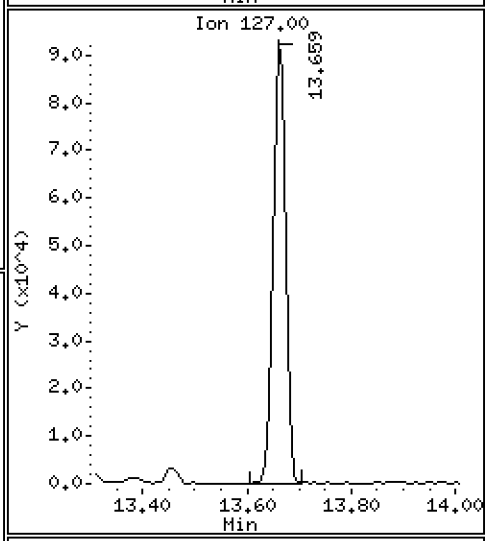


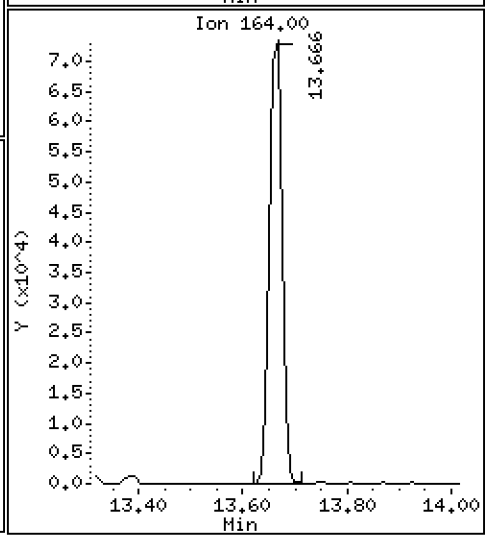












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

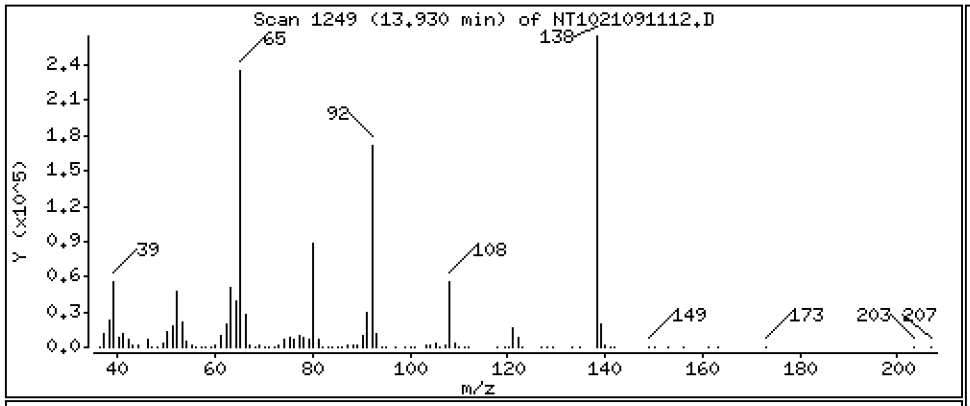
Operator: VTS

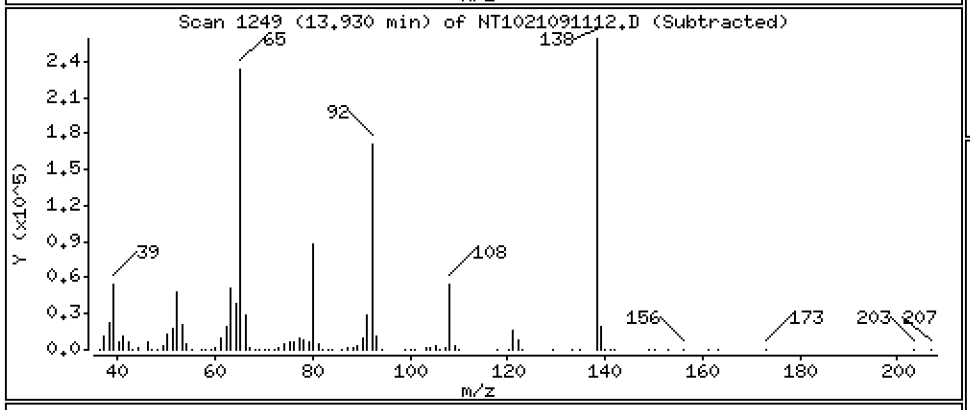
Column phase: ZB-5msi

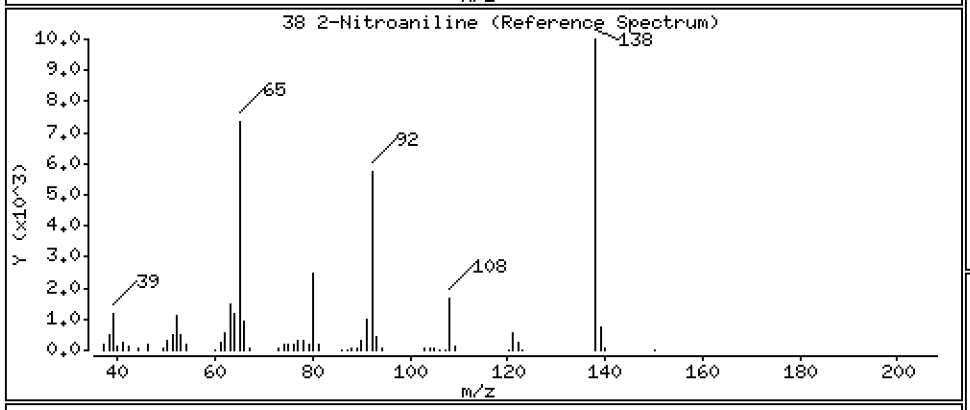
Column diameter: 0.25

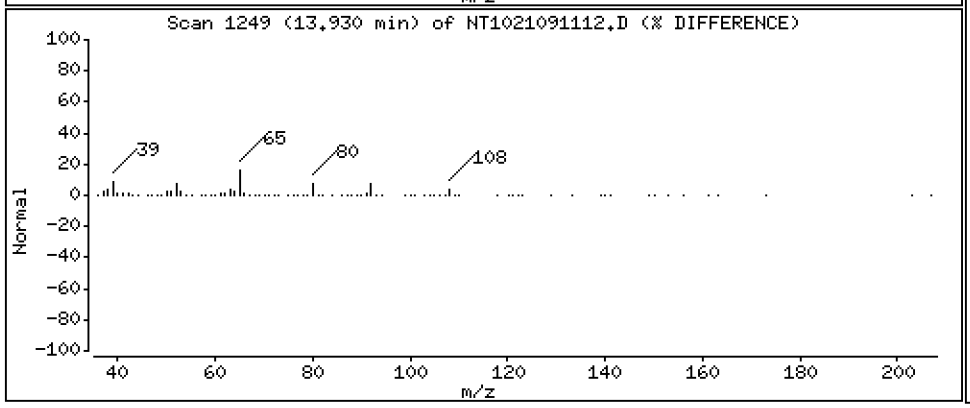
38 2-Nitroaniline

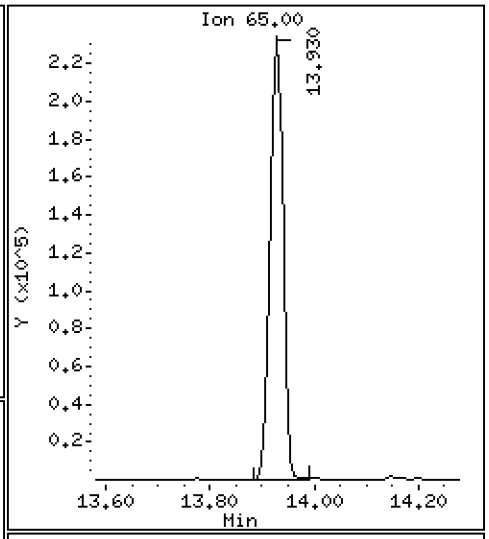
Concentration: 15.48 ug/mL

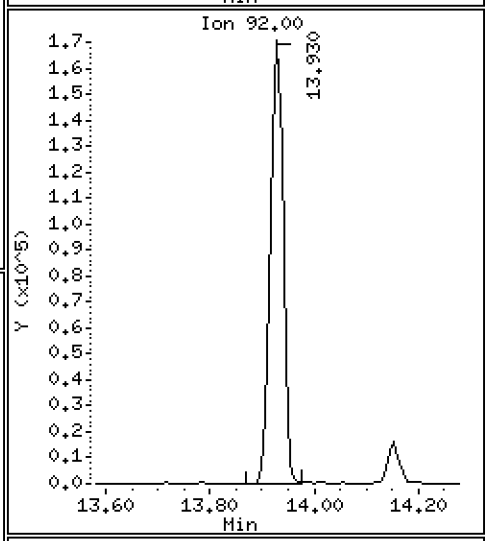


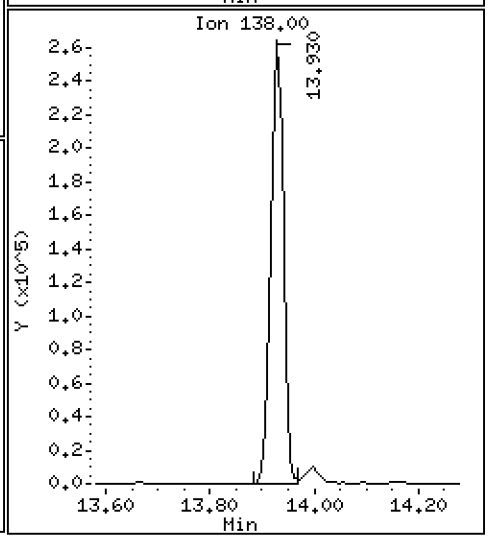












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

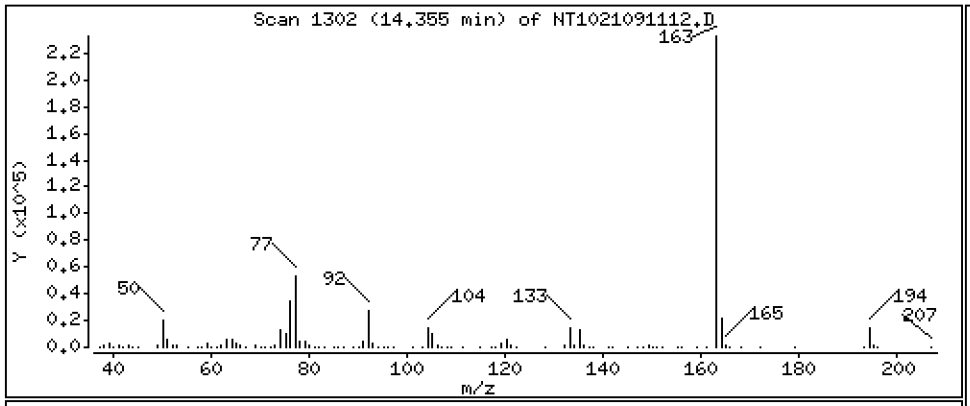
Operator: VTS

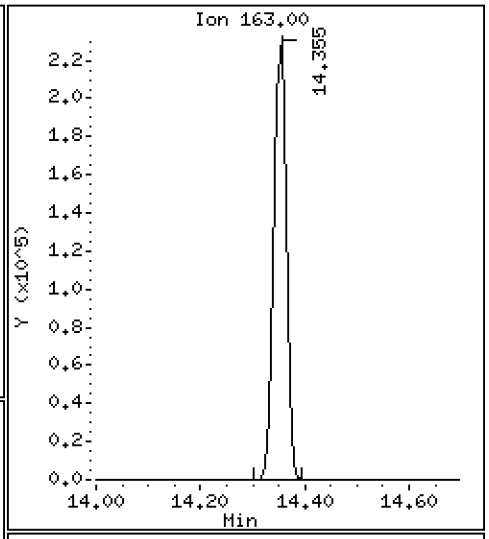
Column phase: ZB-5msi

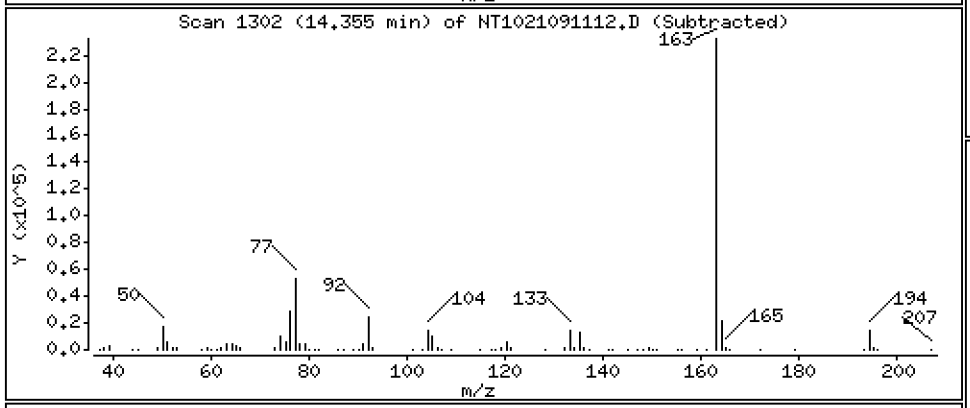
Column diameter: 0.25

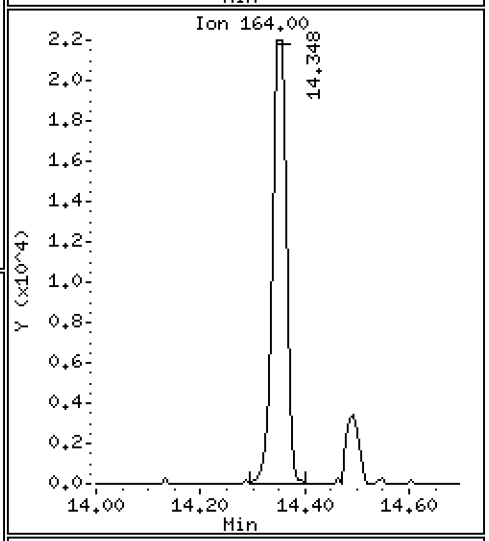
39 Dimethylphthalate

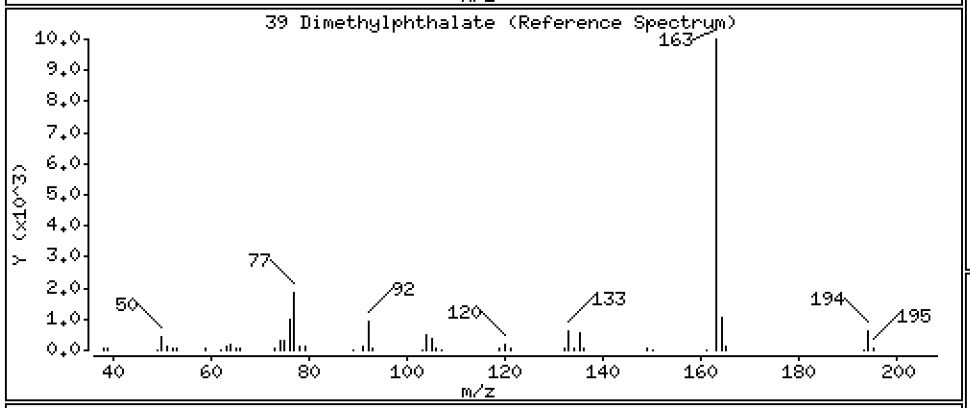
Concentration: 4.227 ug/mL

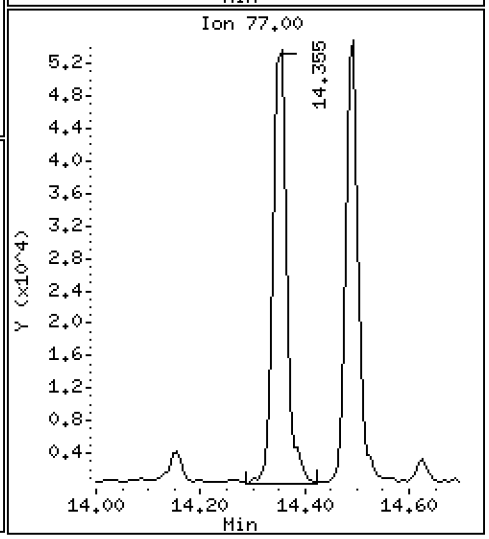


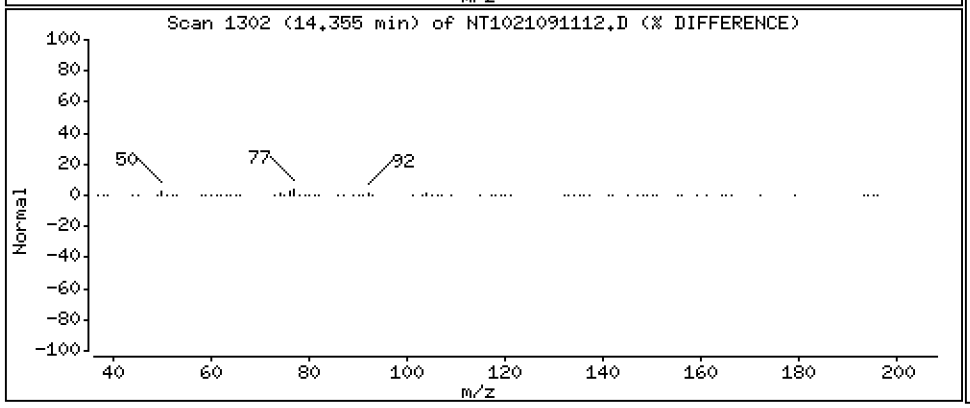












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

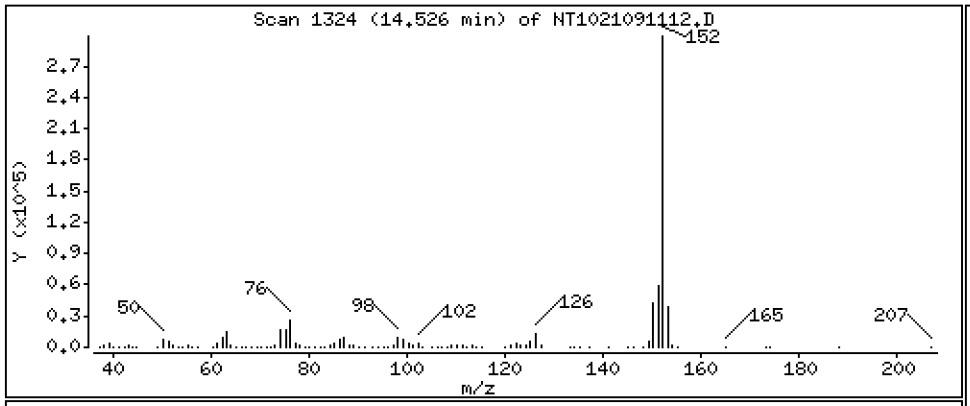
Operator: VTS

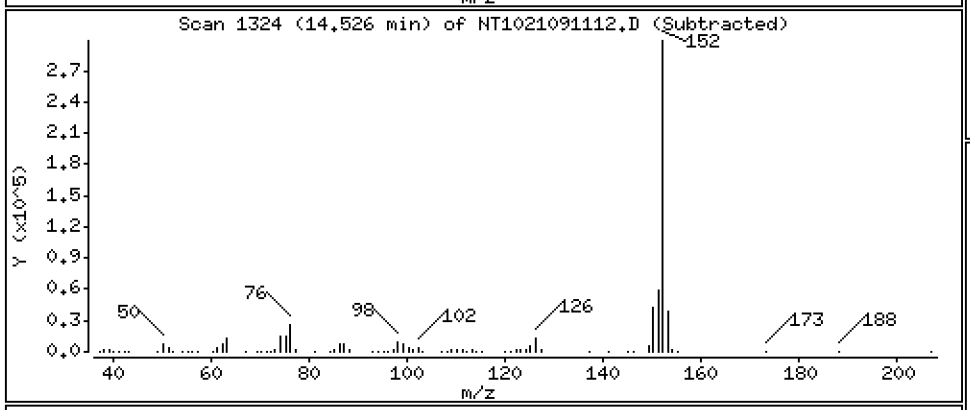
Column phase: ZB-5msi

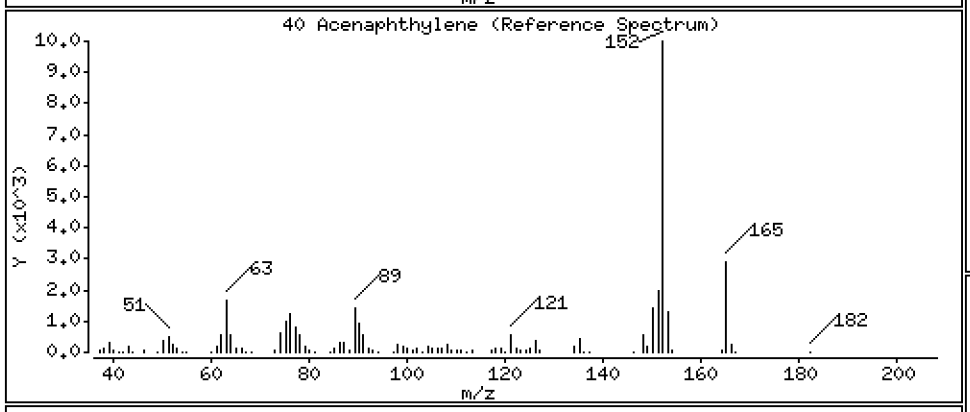
Column diameter: 0.25

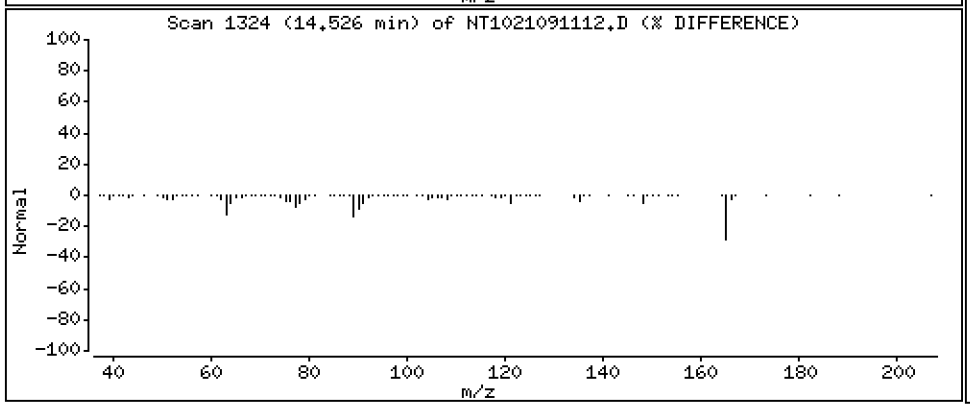
40 Acenaphthylene

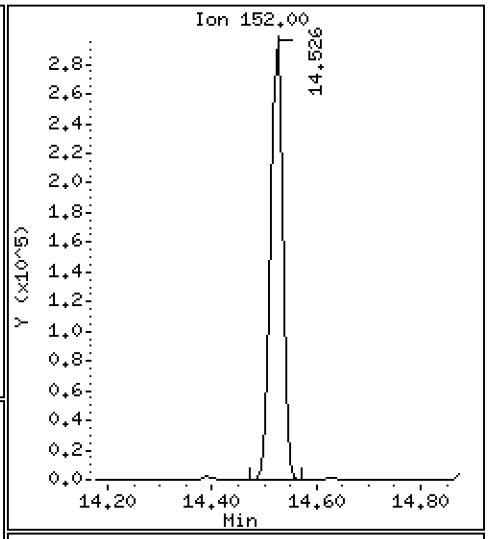
Concentration: 3.491 ug/mL

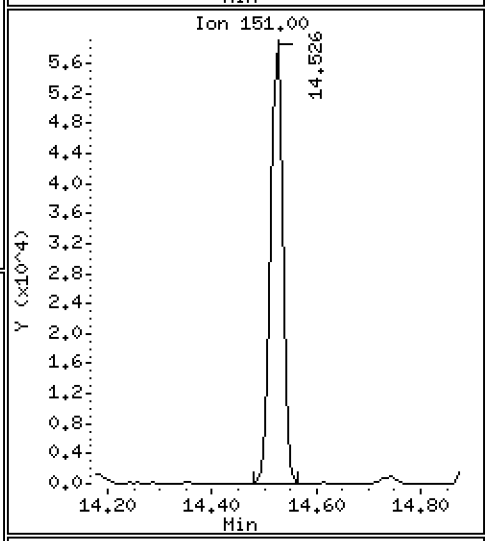


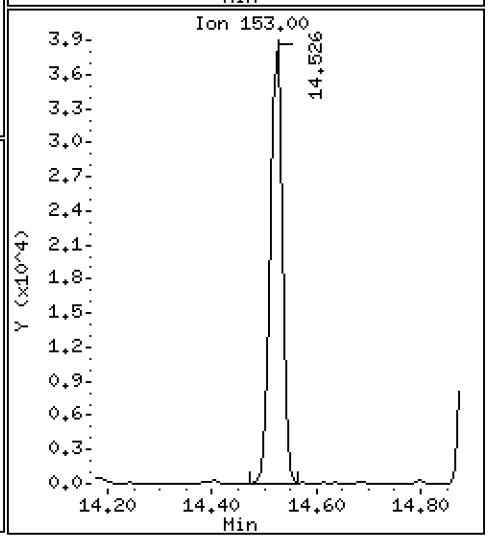












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

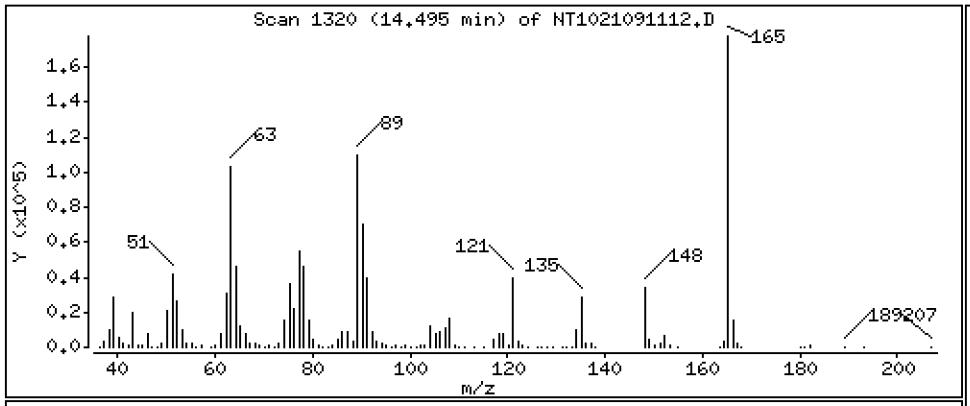
Operator: VTS

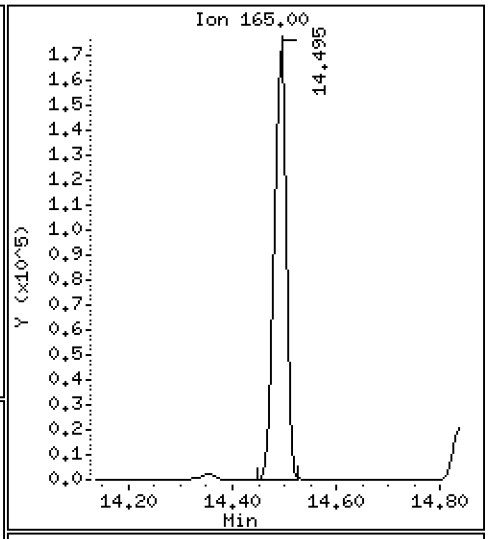
Column phase: ZB-5msi

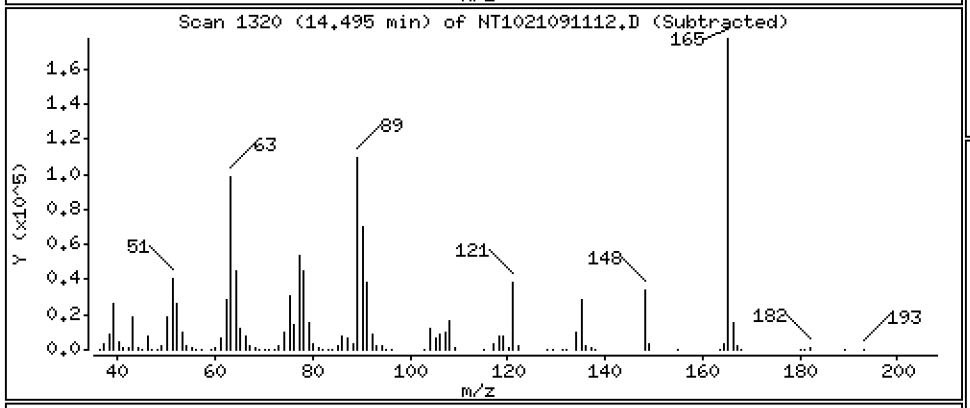
Column diameter: 0.25

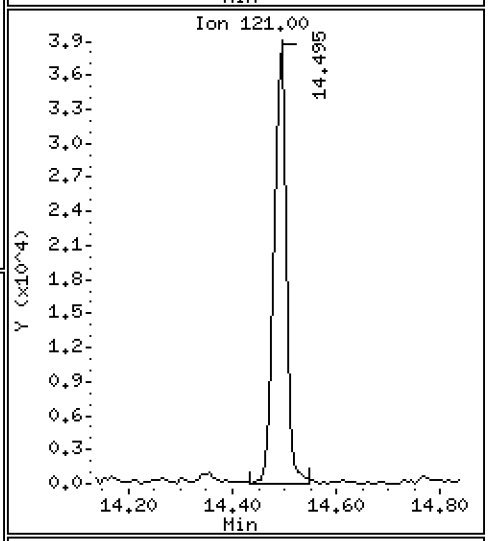
41 2,6-Dinitrotoluene

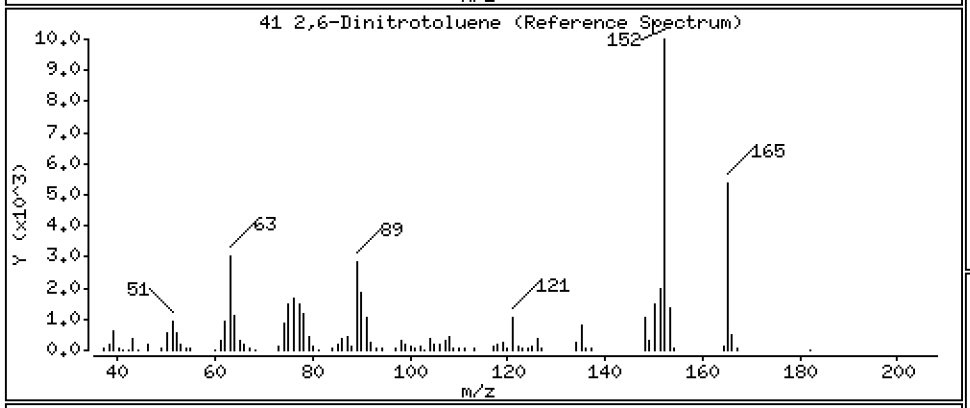
Concentration: 14.05 ug/mL

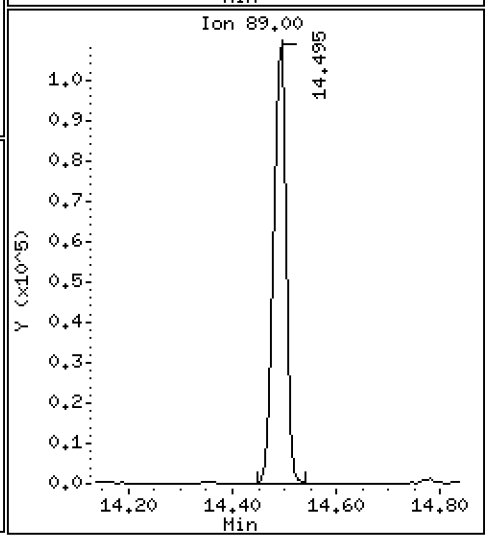


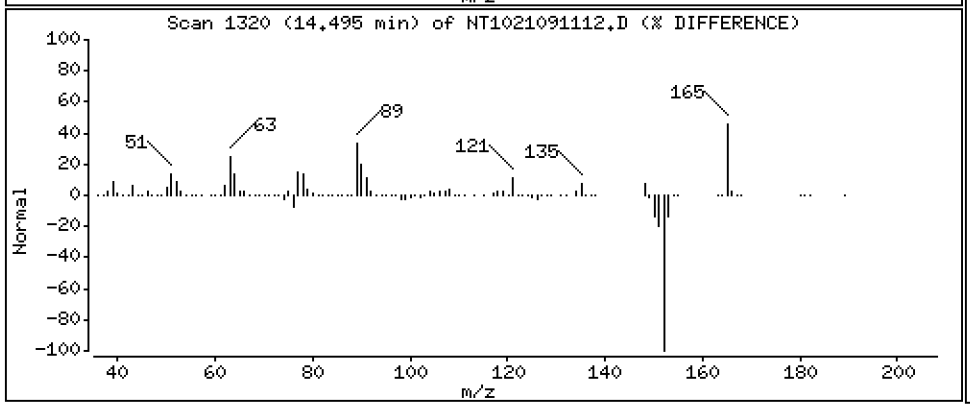












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

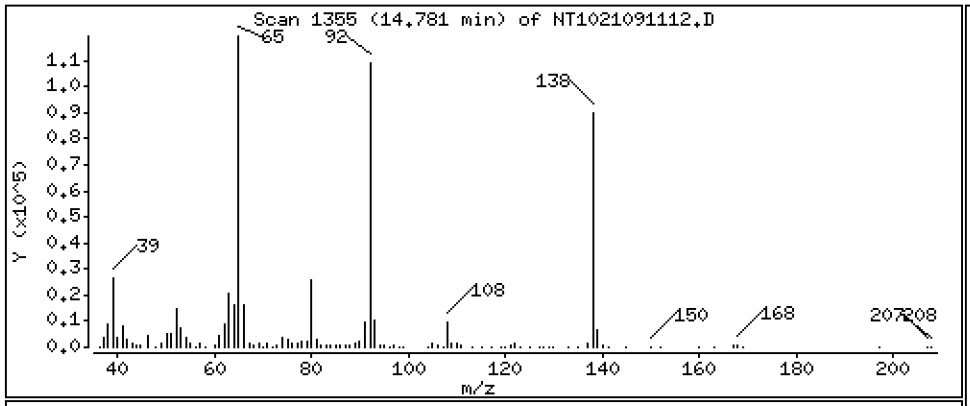
Operator: VTS

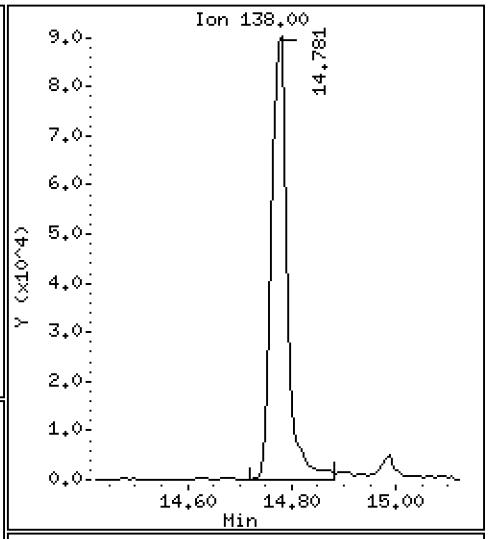
Column phase: ZB-5msi

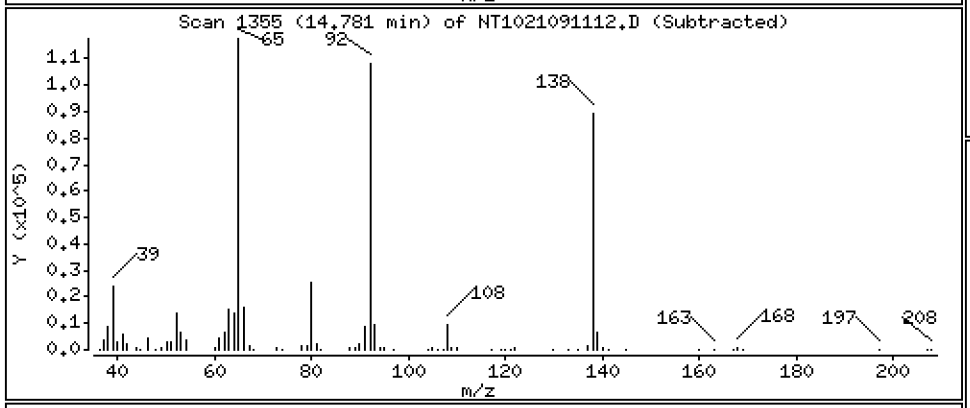
Column diameter: 0.25

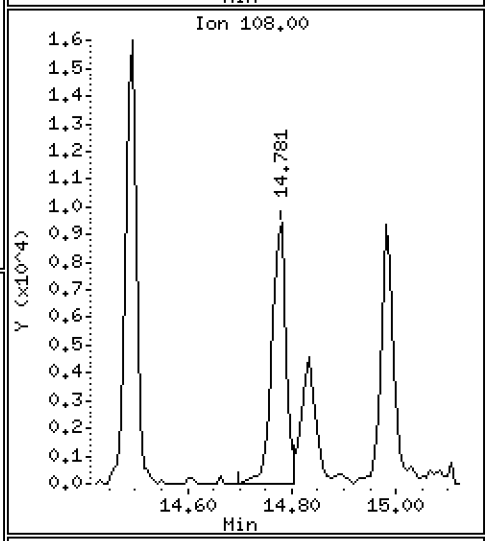
43 3-Nitroaniline

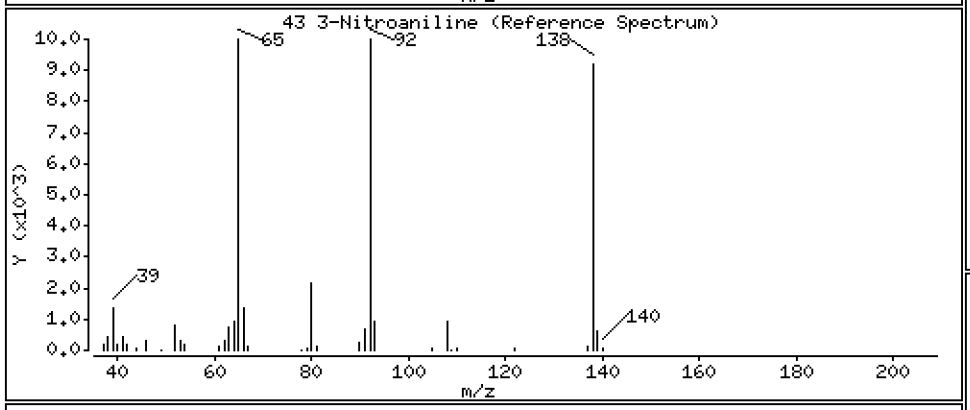
Concentration: 7.255 ug/mL

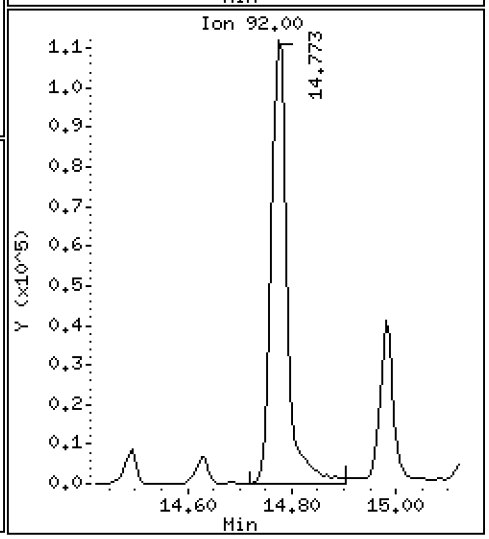


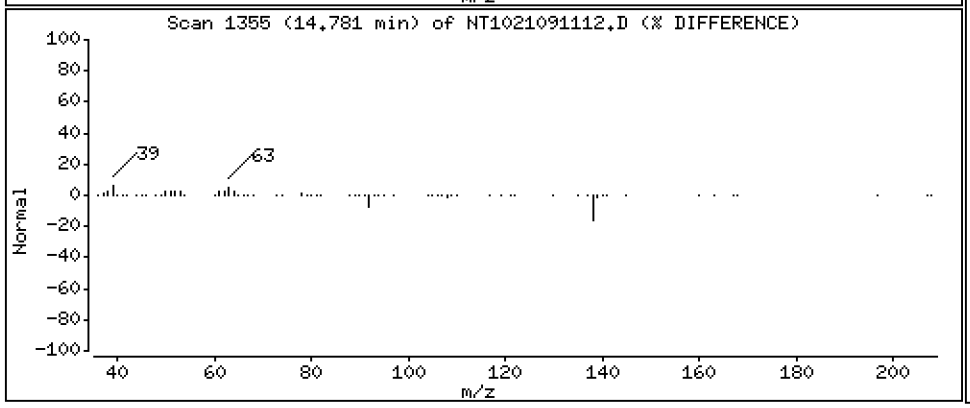












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

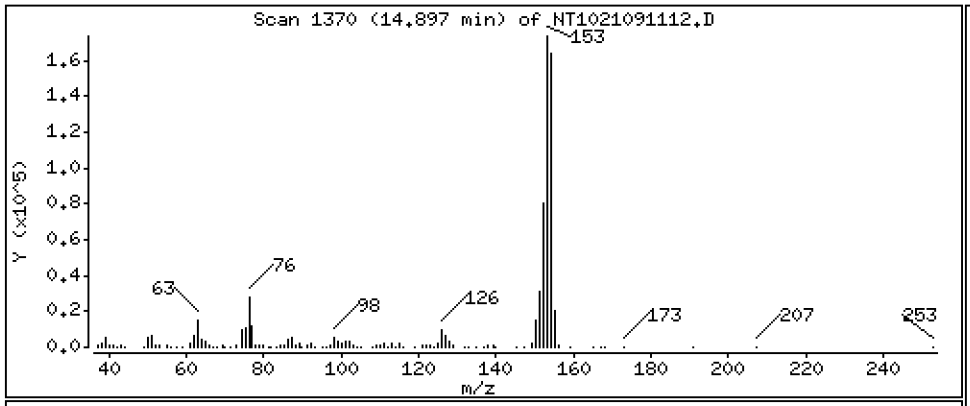
Operator: VTS

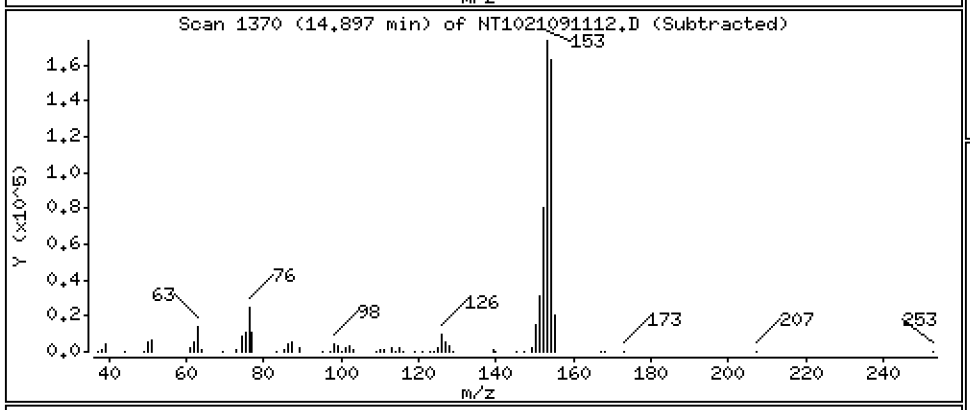
Column phase: ZB-5msi

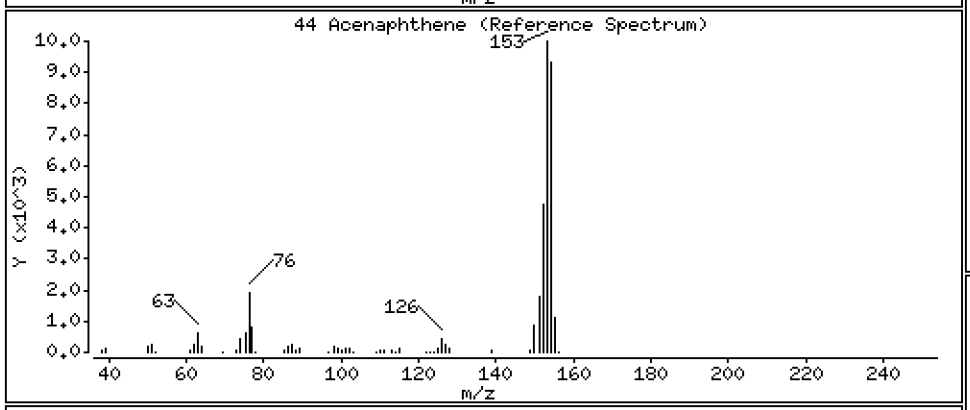
Column diameter: 0.25

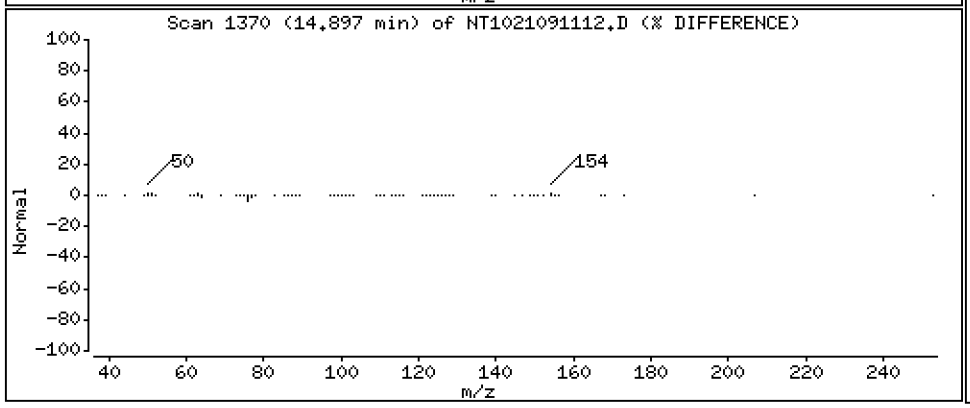
44 Acenaphthene

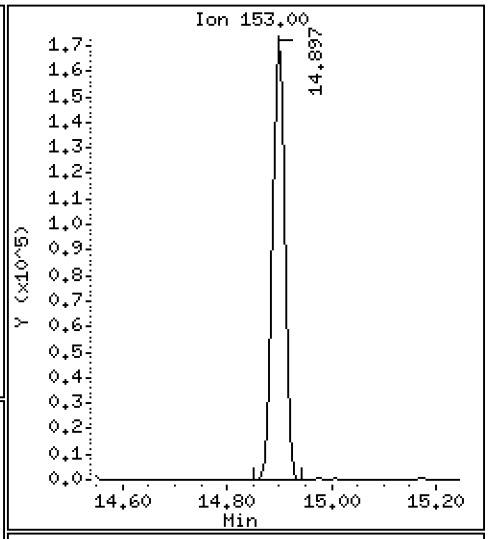
Concentration: 3.863 ug/mL

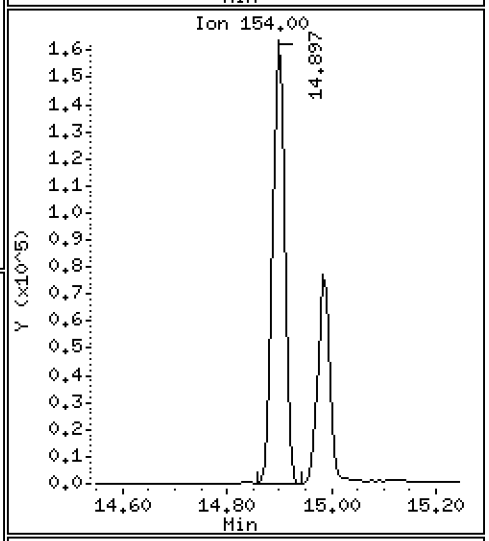


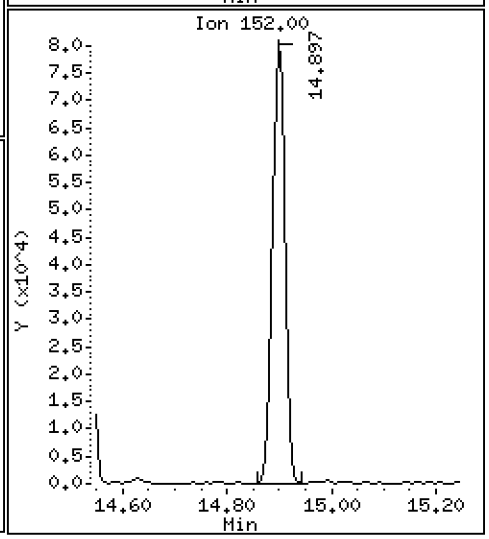












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

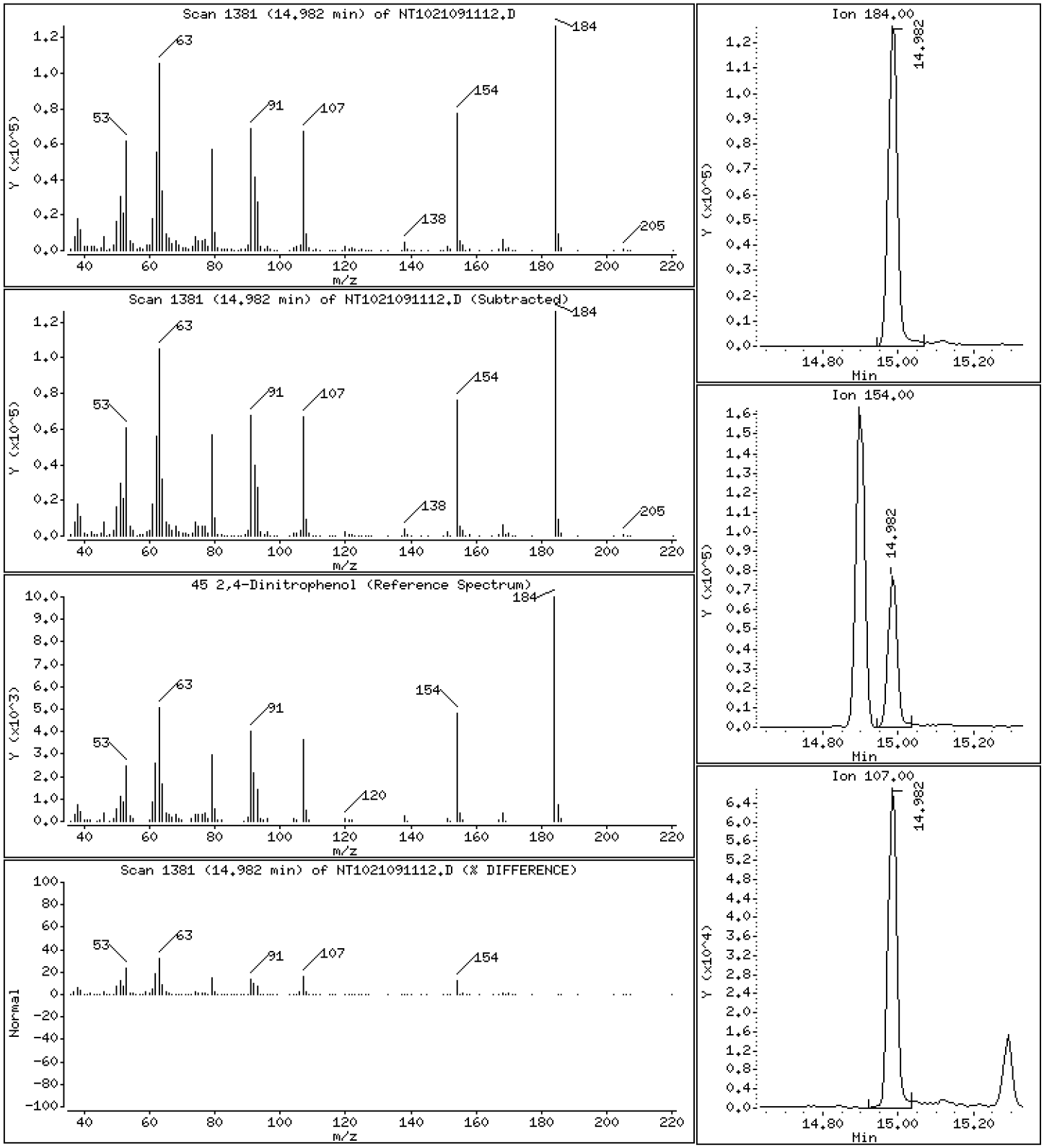
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 20.10 ug/mL



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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

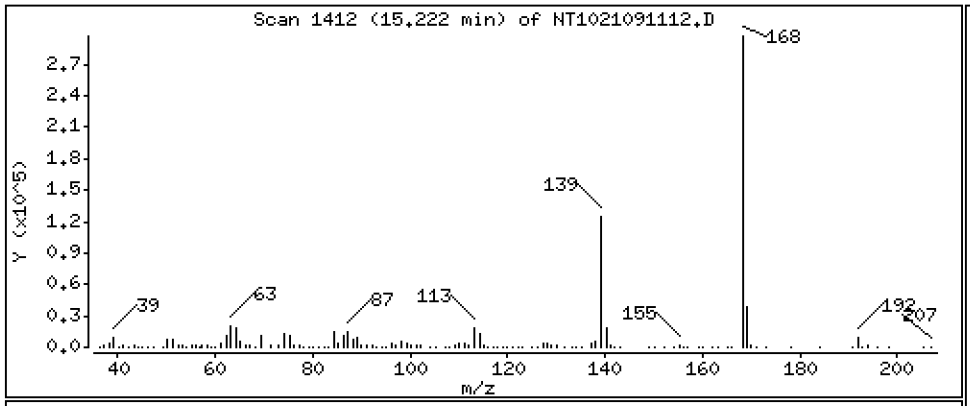
Operator: VTS

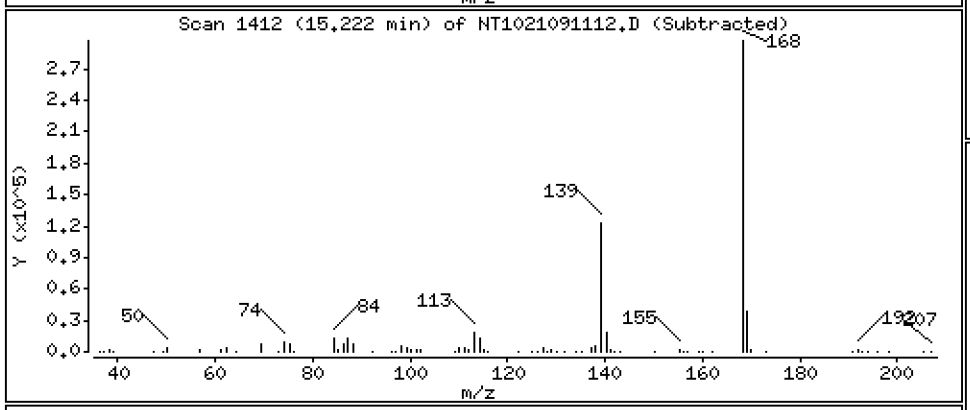
Column phase: ZB-5msi

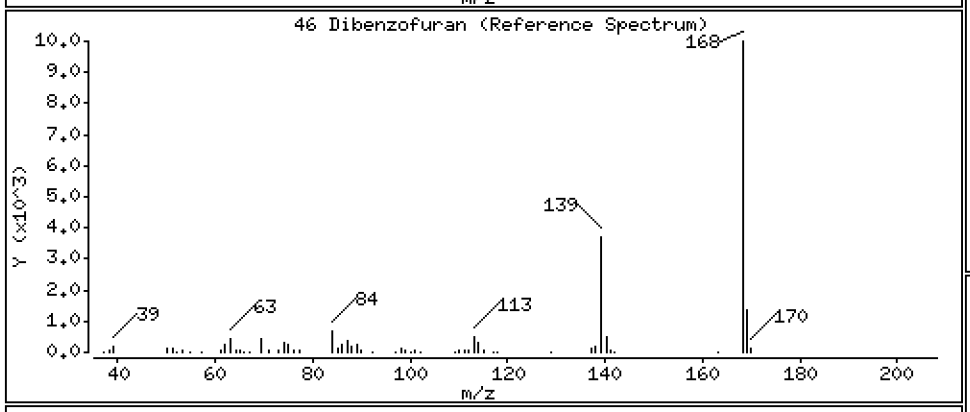
Column diameter: 0.25

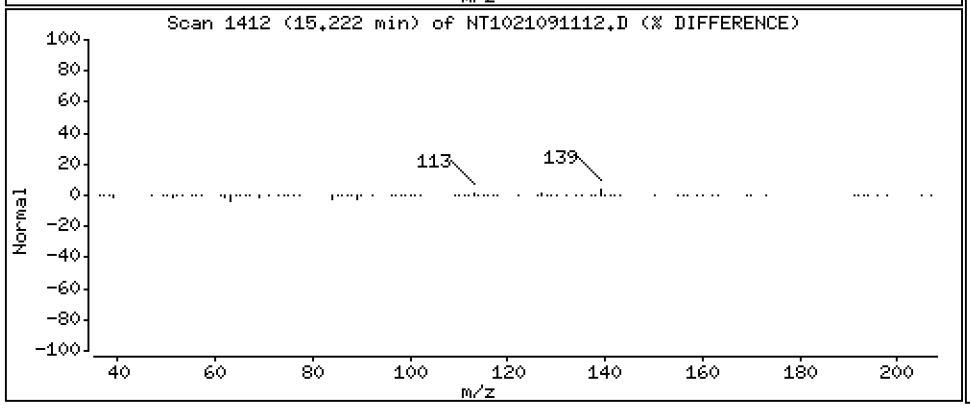
46 Dibenzofuran

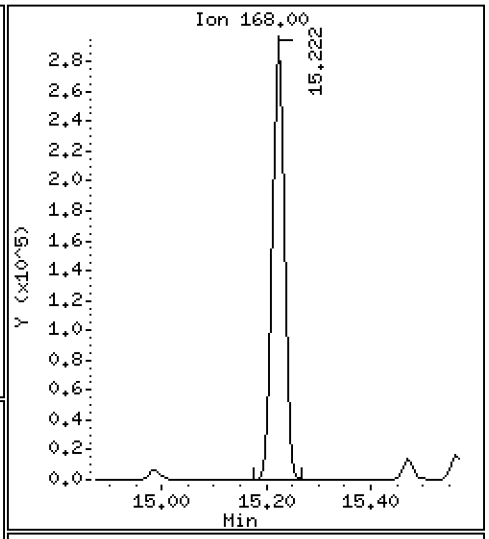
Concentration: 3.631 ug/mL

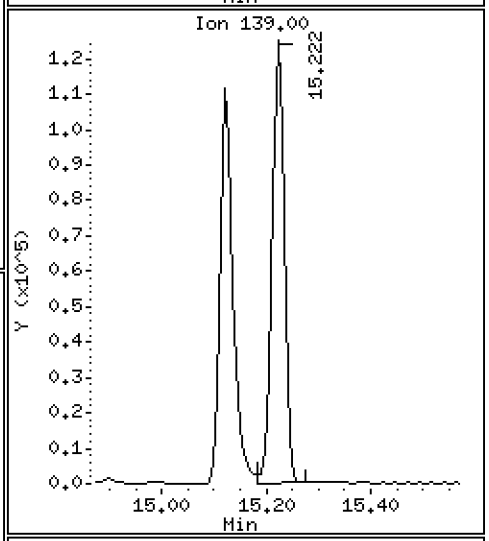


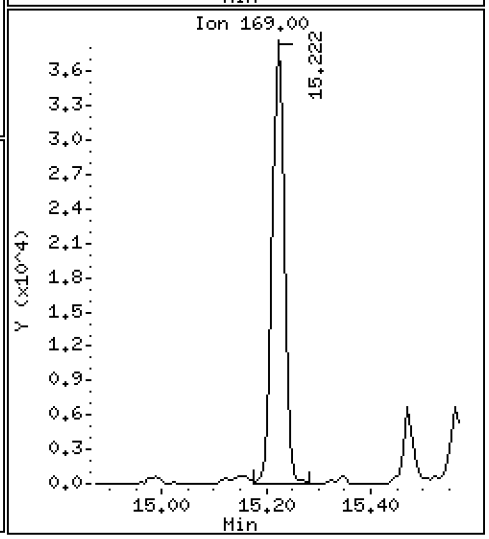












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

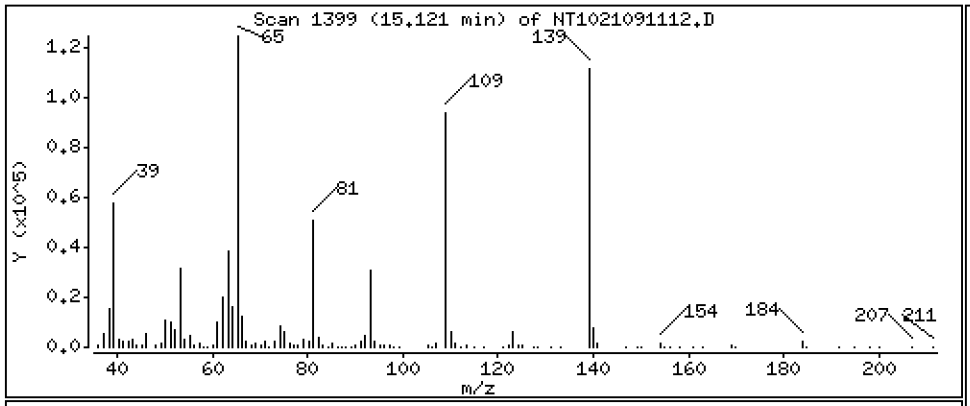
Operator: VTS

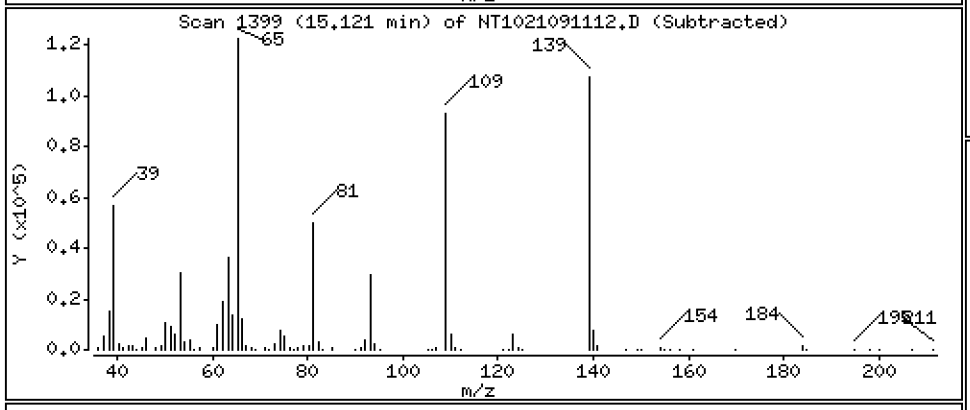
Column phase: ZB-5msi

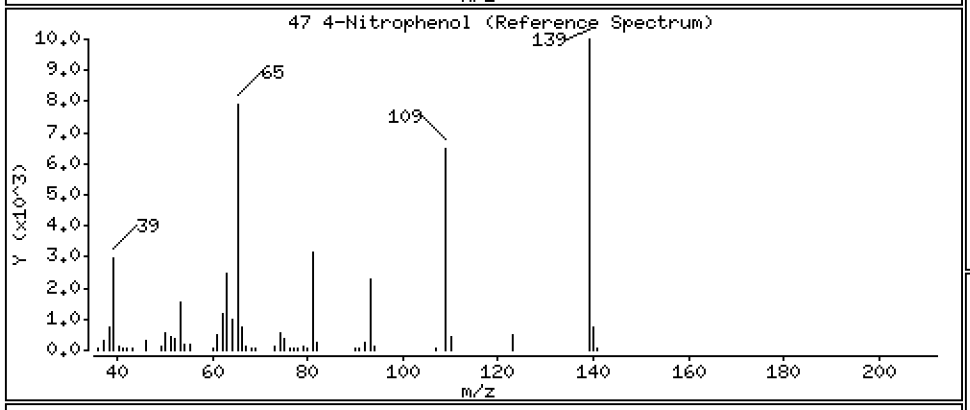
Column diameter: 0.25

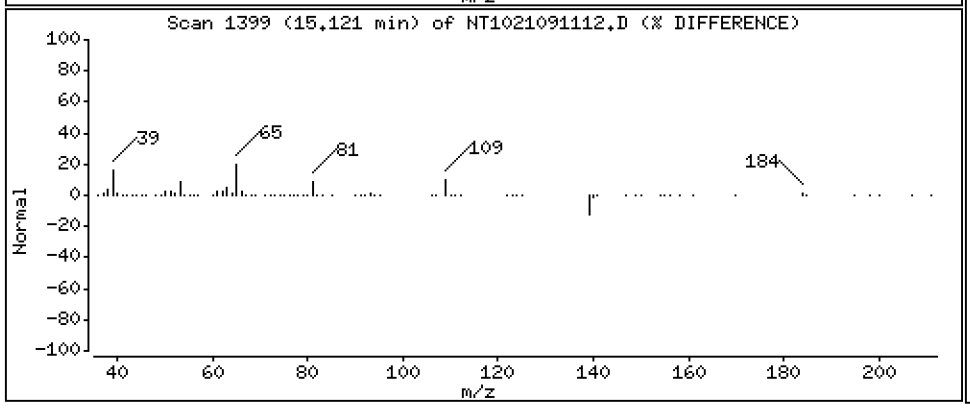
47 4-Nitrophenol

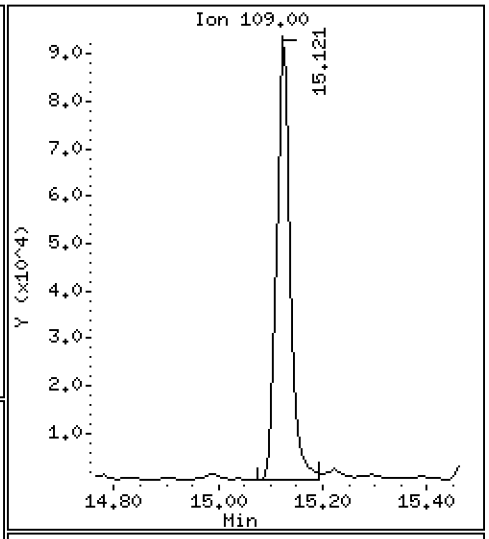
Concentration: 17.90 ug/mL

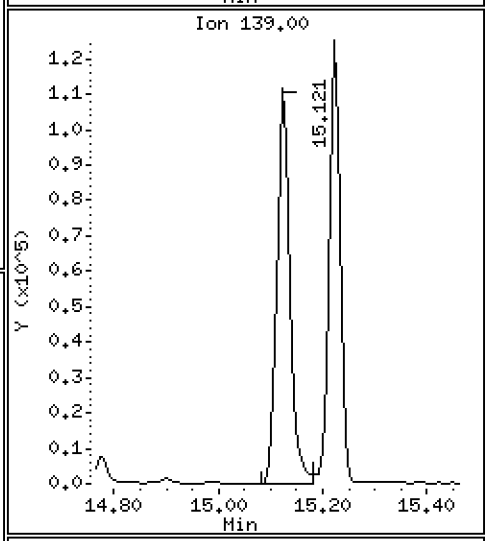


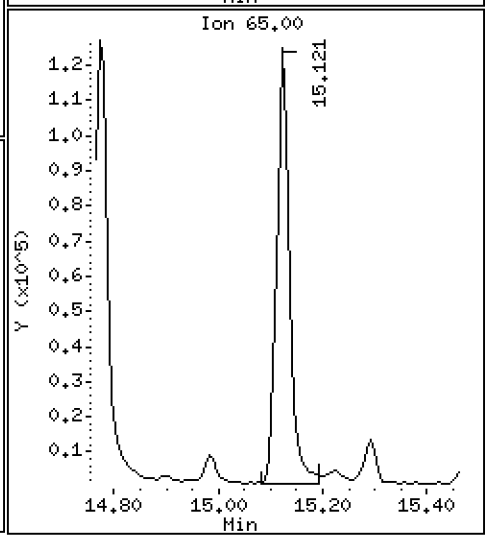












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

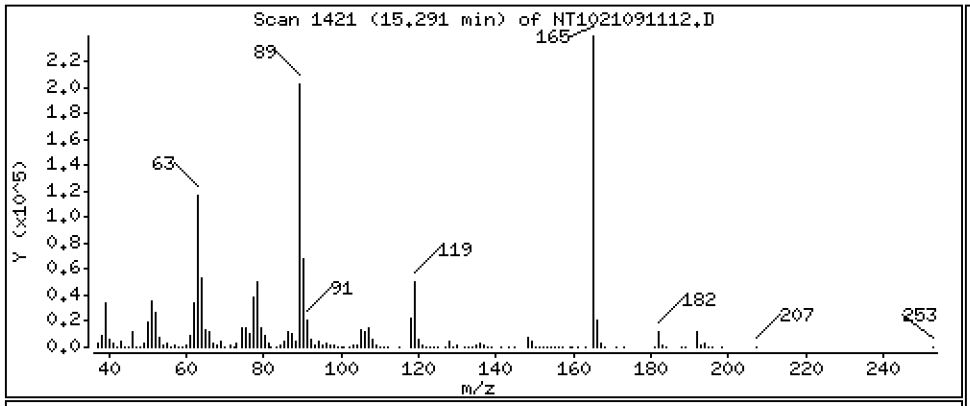
Operator: VTS

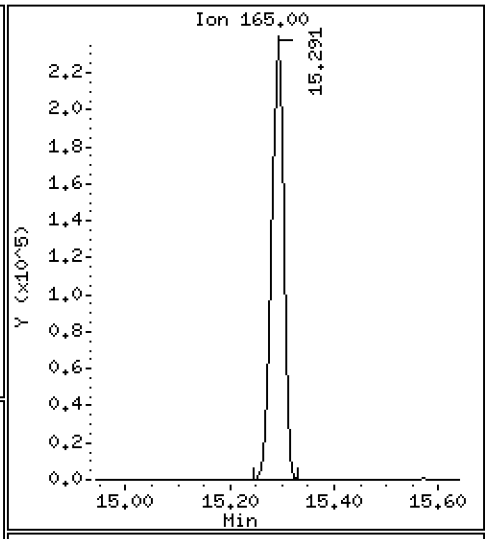
Column phase: ZB-5msi

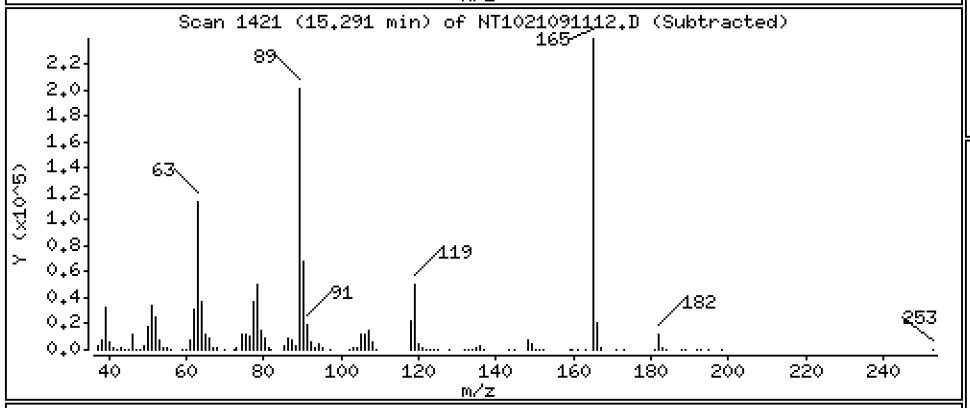
Column diameter: 0.25

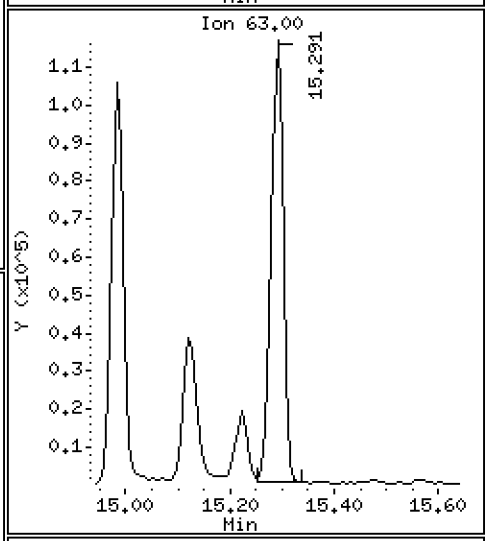
48 2,4-Dinitrotoluene

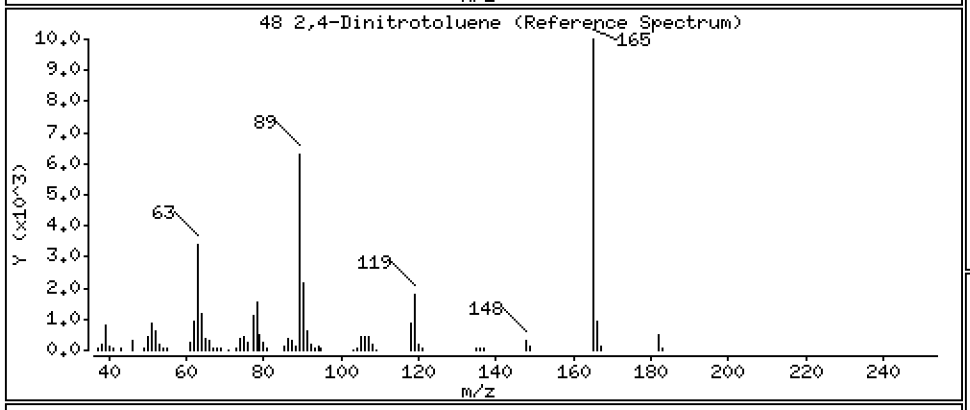
Concentration: 13.69 ug/mL

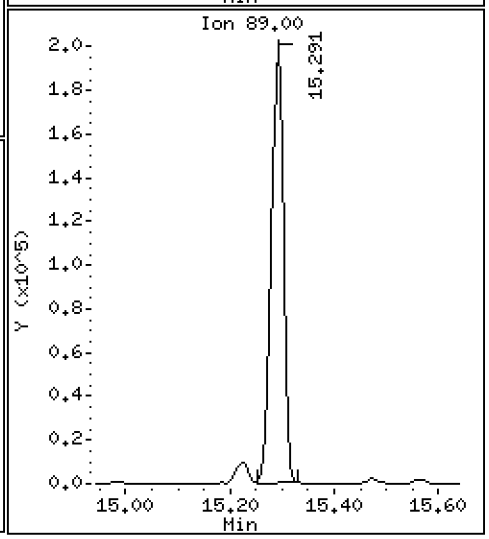


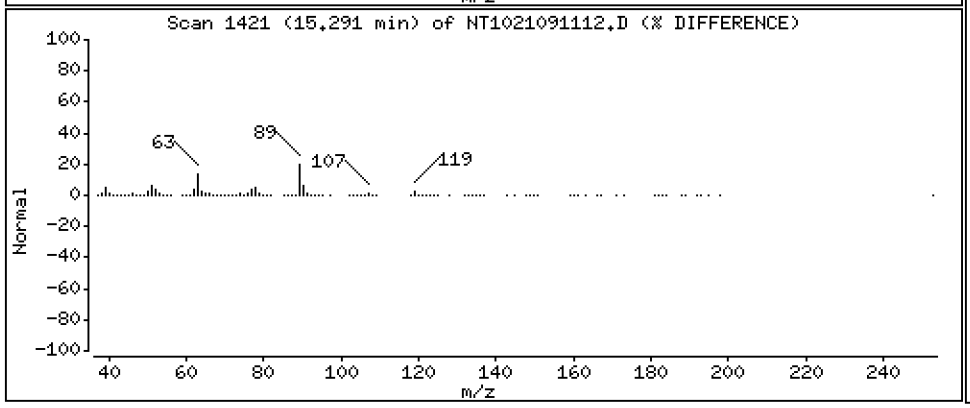












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

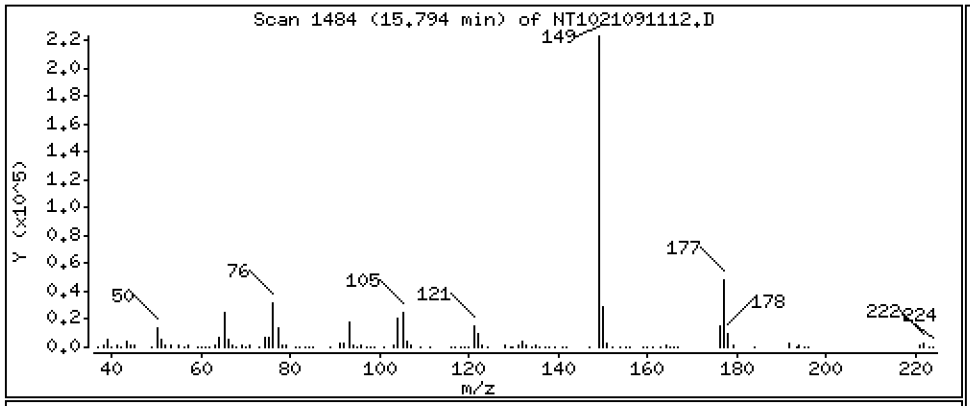
Operator: VTS

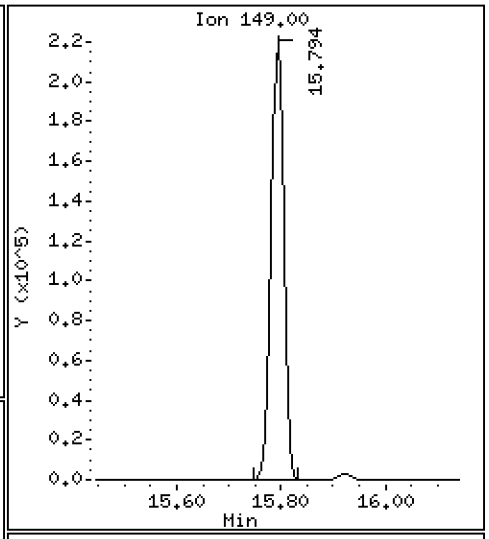
Column phase: ZB-5msi

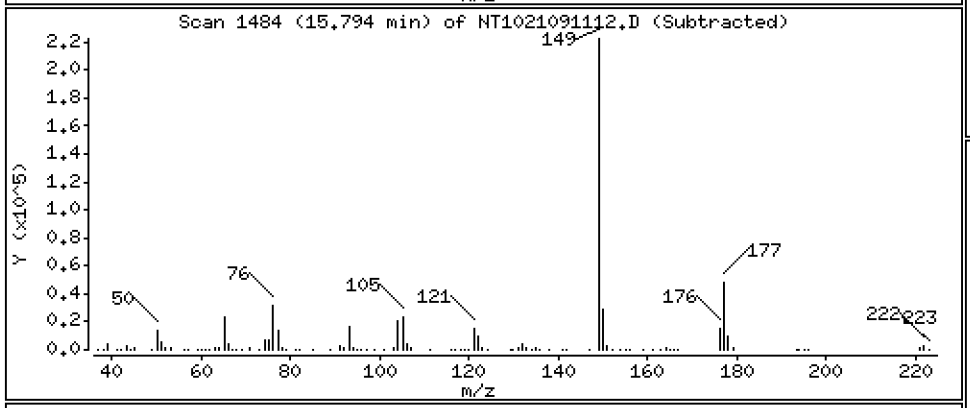
Column diameter: 0.25

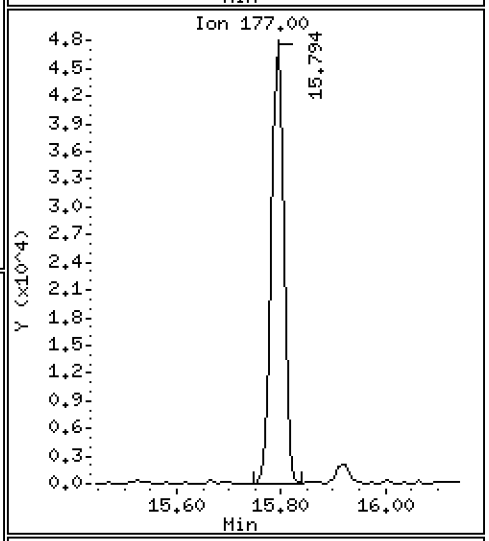
50 Diethylphthalate

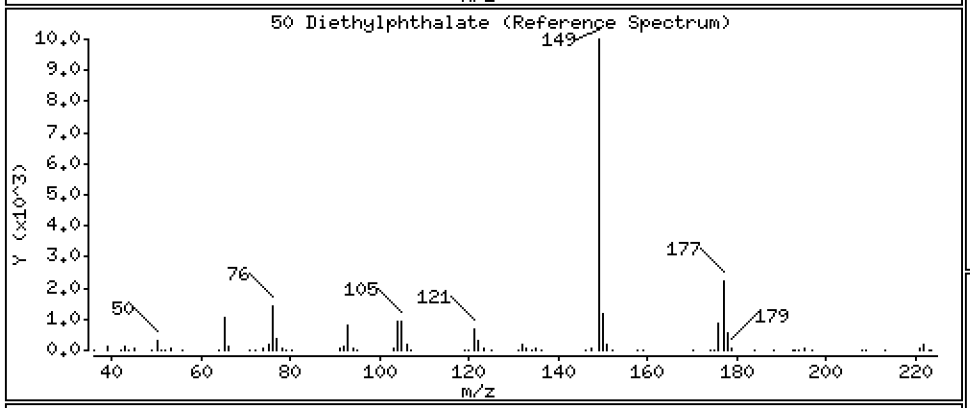
Concentration: 4.569 ug/mL

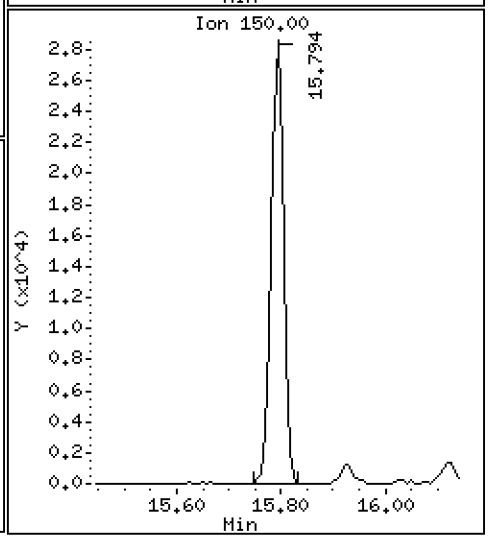


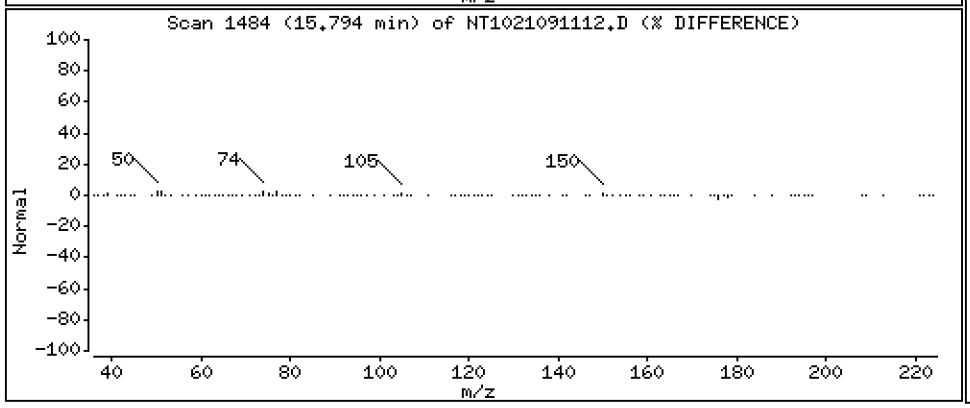












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

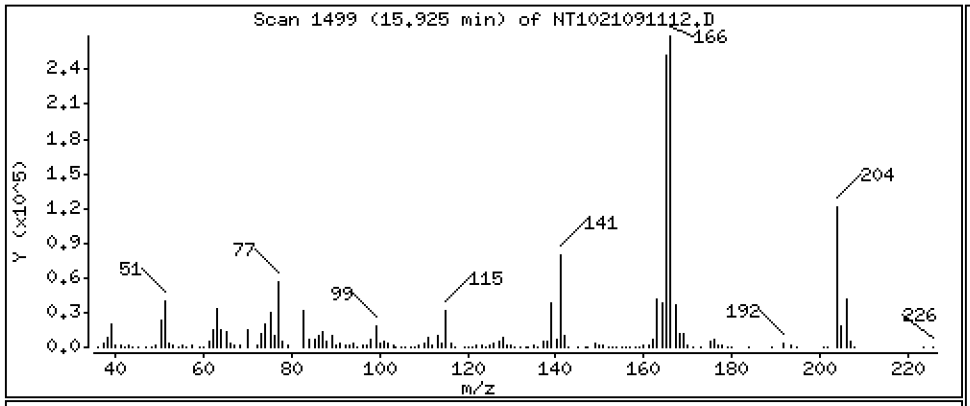
Operator: VTS

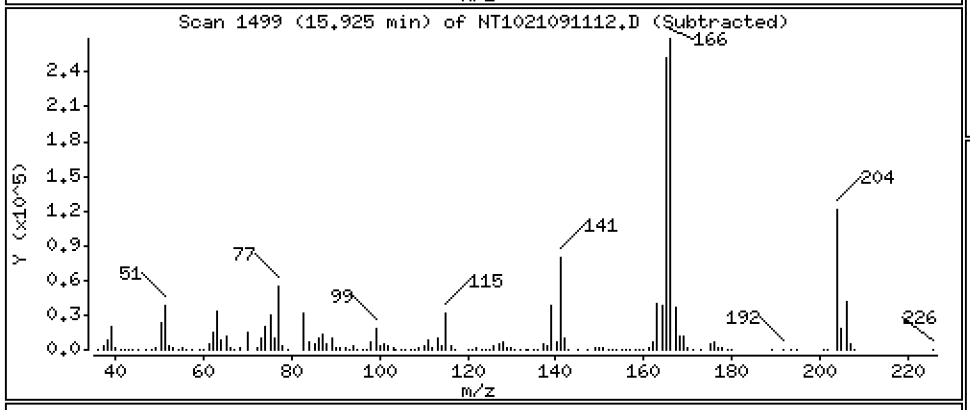
Column phase: ZB-5msi

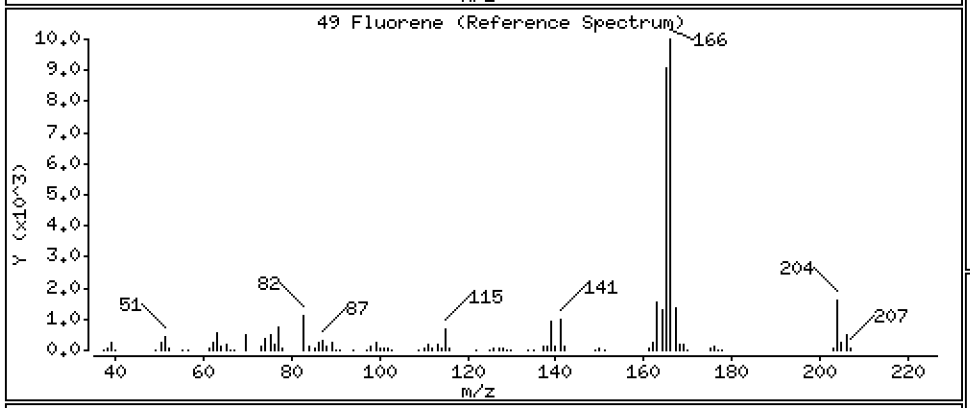
Column diameter: 0.25

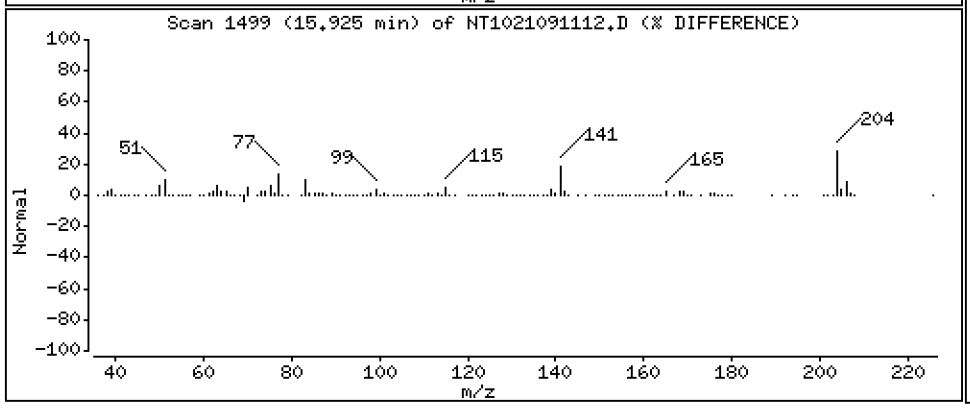
49 Fluorene

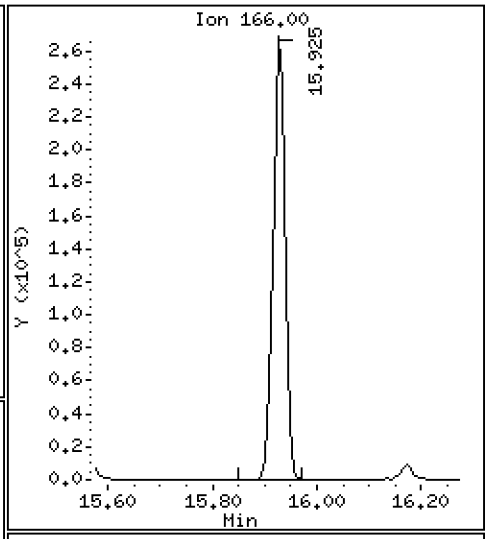
Concentration: 4.426 ug/mL

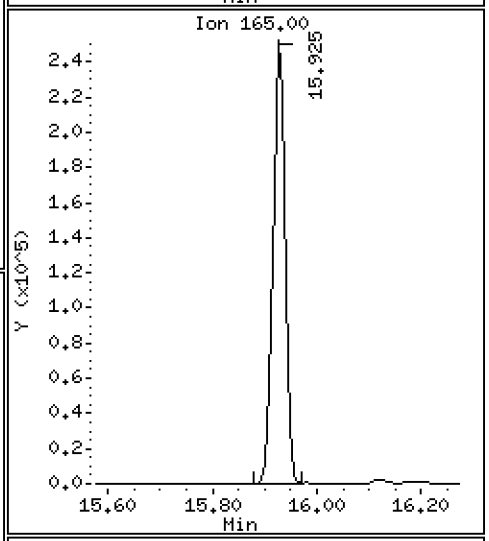


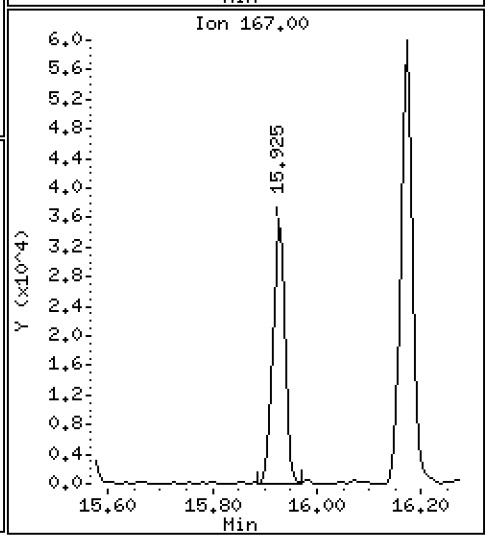












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

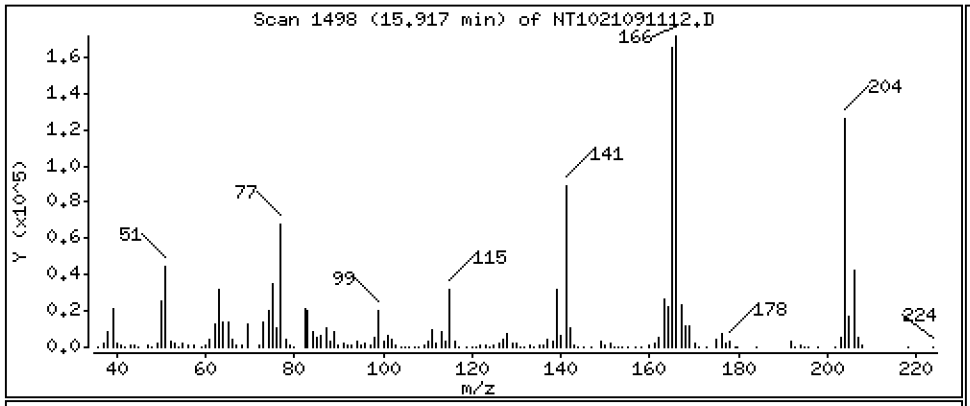
Operator: VTS

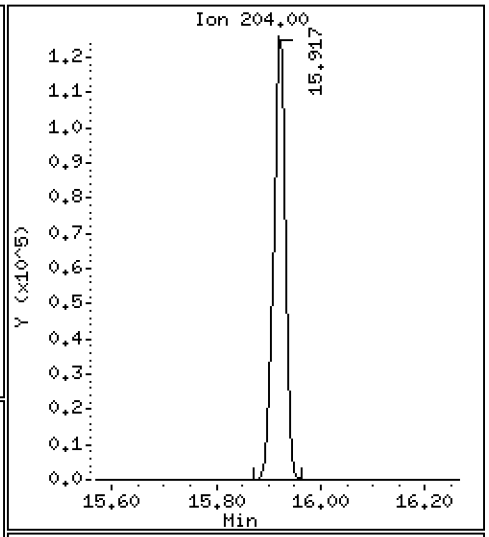
Column phase: ZB-5msi

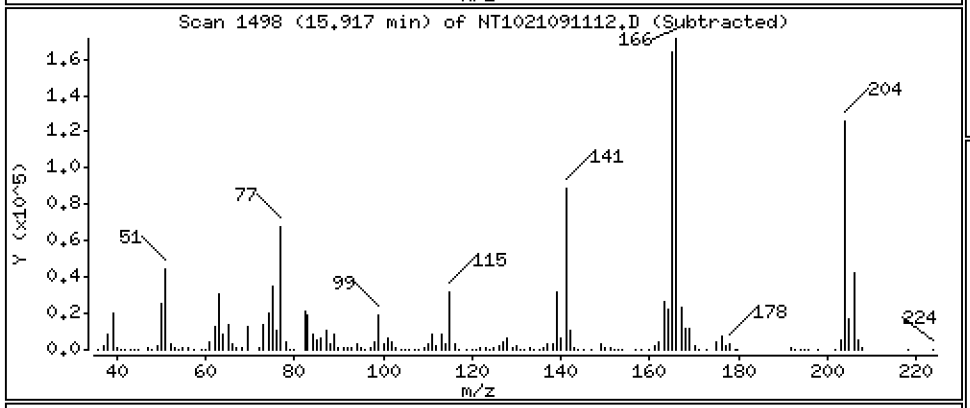
Column diameter: 0.25

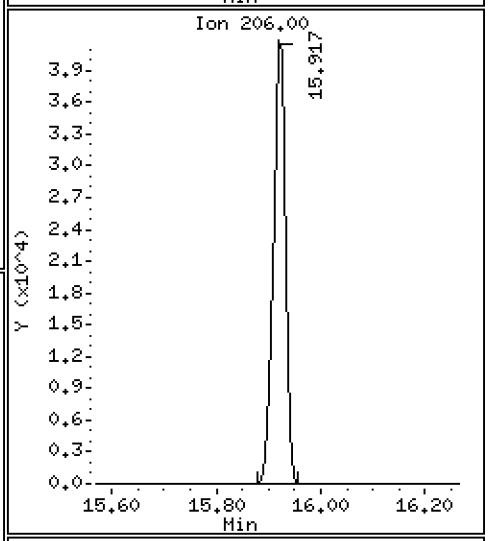
51 4-Chlorophenyl-phenylether

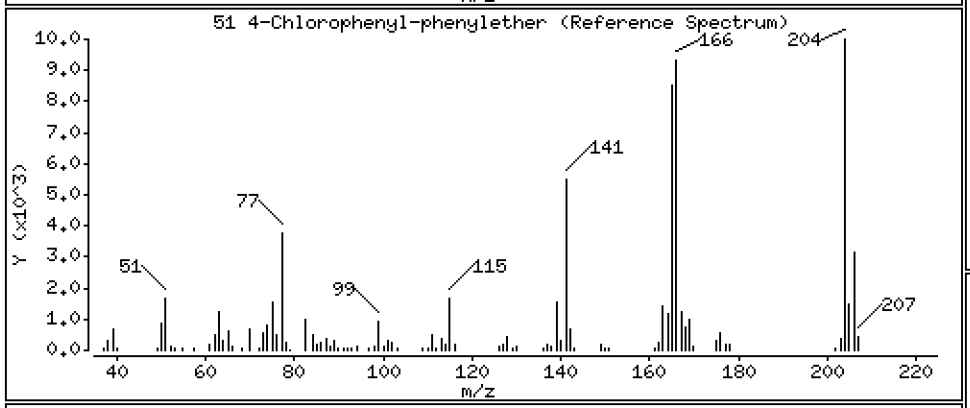
Concentration: 4.058 ug/mL

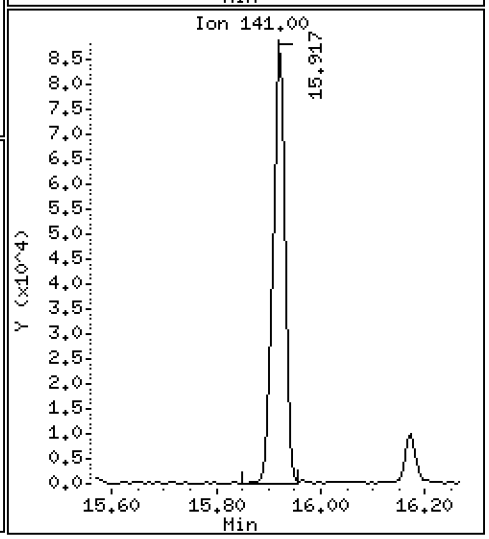


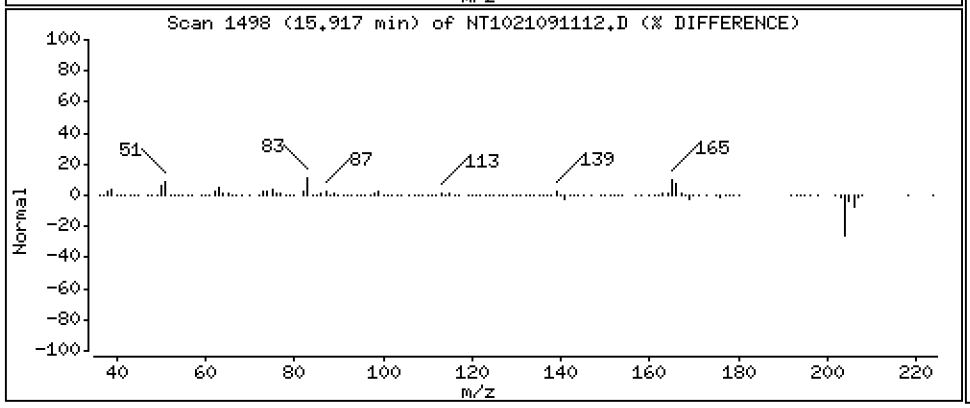












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

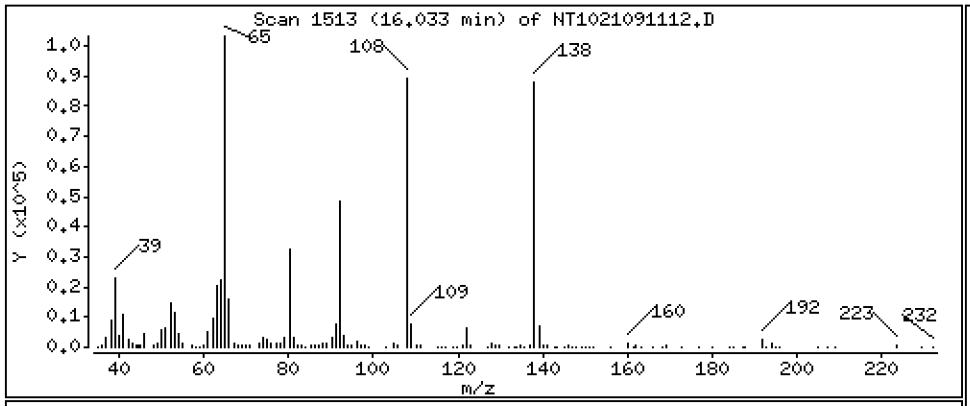
Operator: VTS

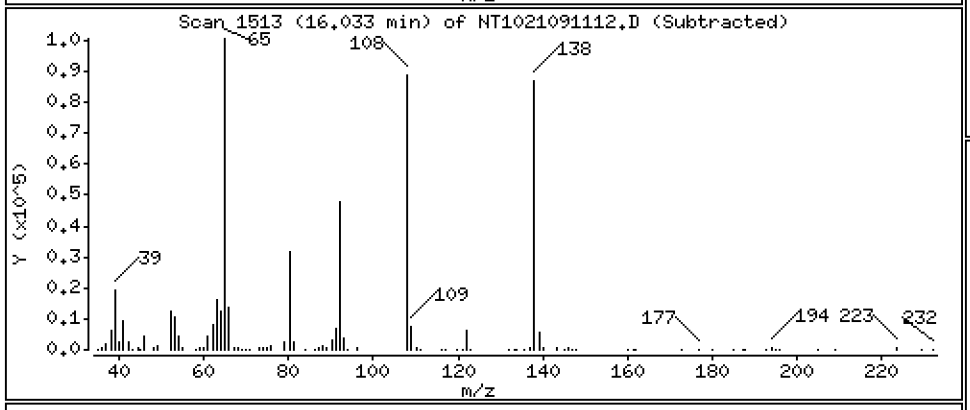
Column phase: ZB-5msi

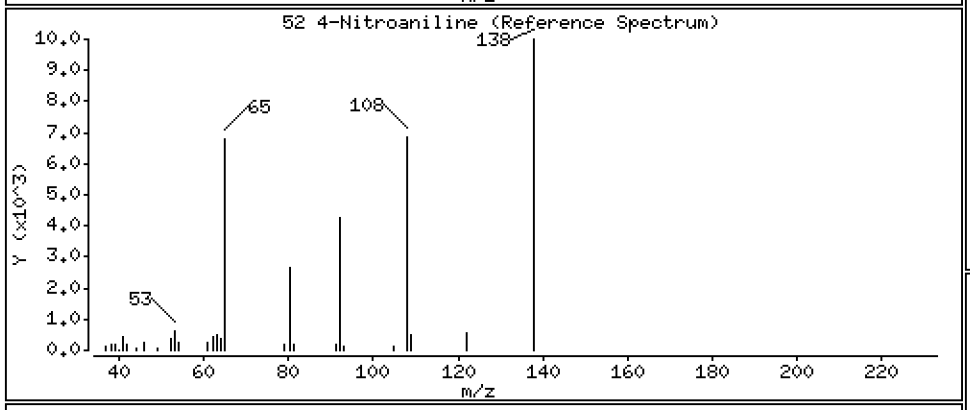
Column diameter: 0.25

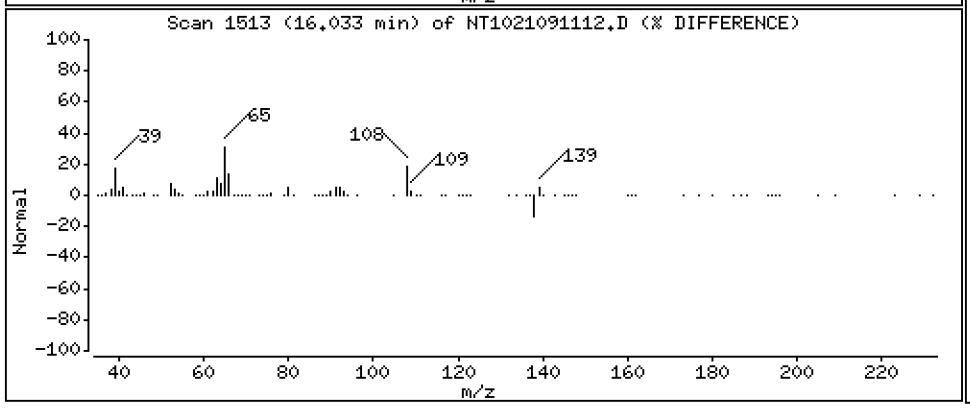
52 4-Nitroaniline

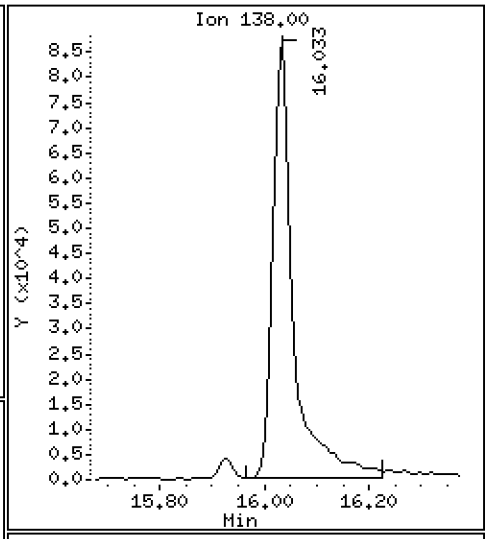
Concentration: 8.833 ug/mL

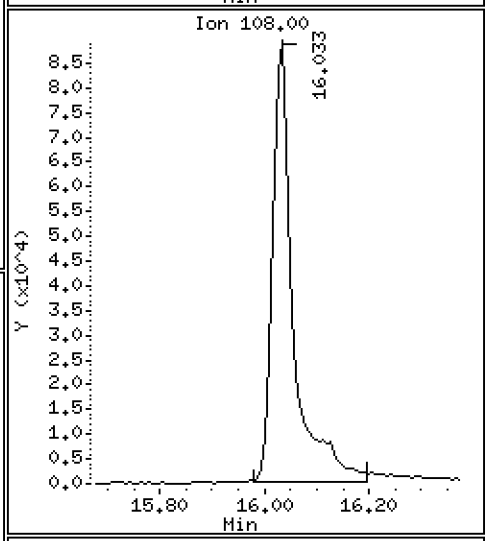


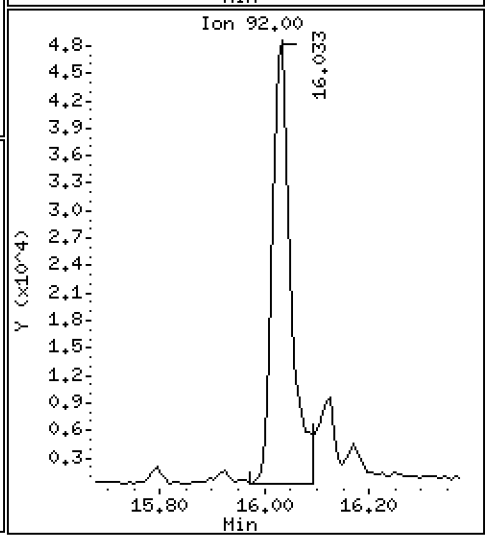












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

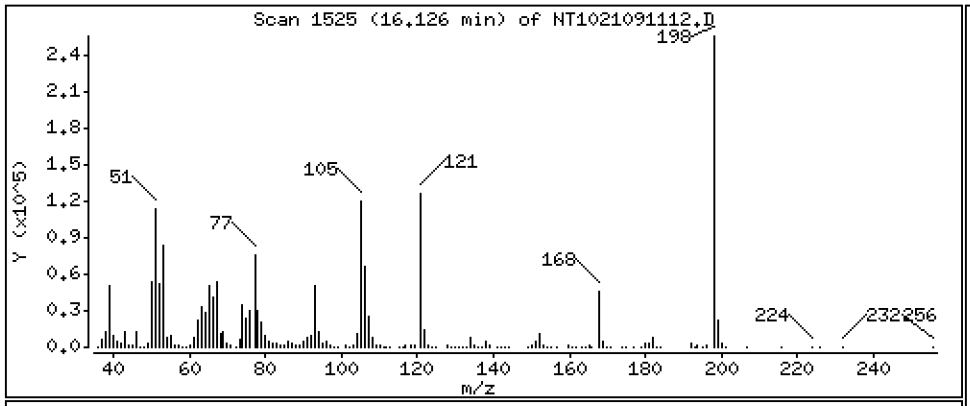
Operator: VTS

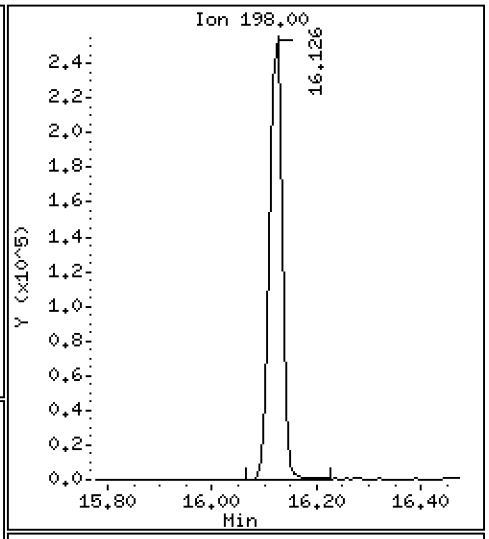
Column phase: ZB-5msi

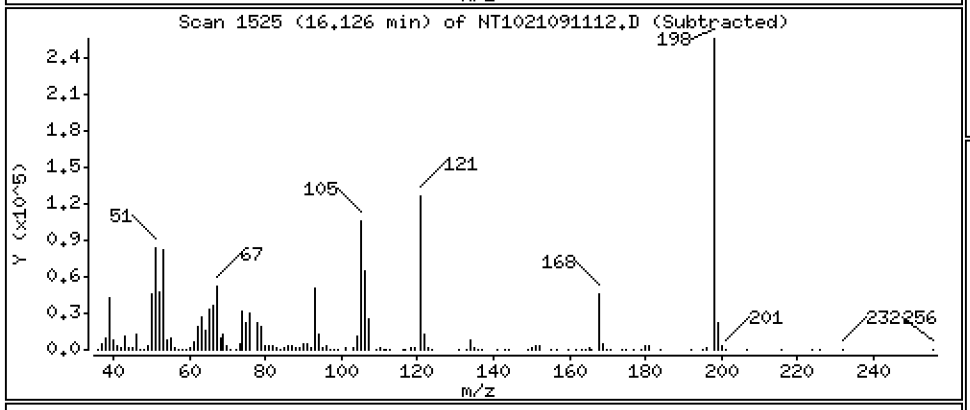
Column diameter: 0.25

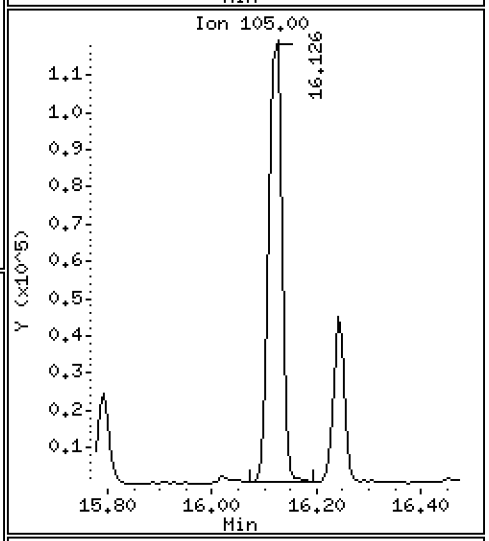
53 4,6-Dinitro-2-methylphenol

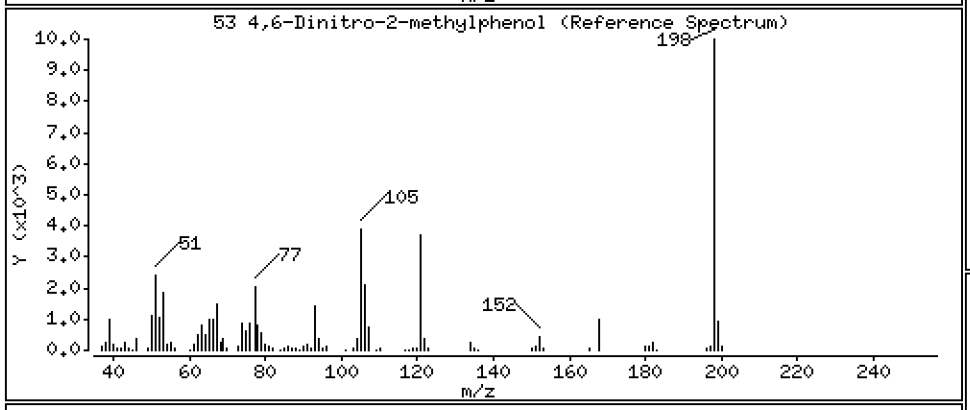
Concentration: 23.91 ug/mL

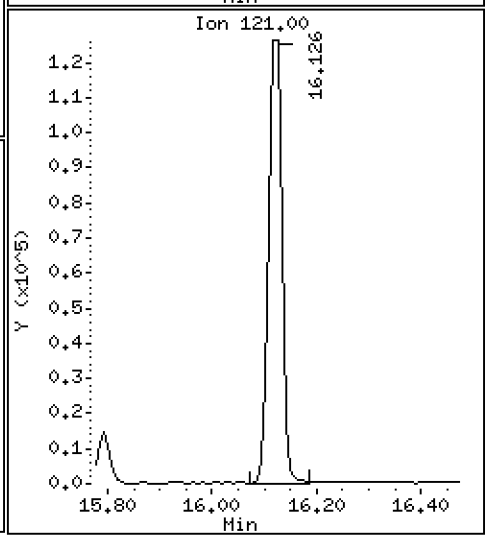


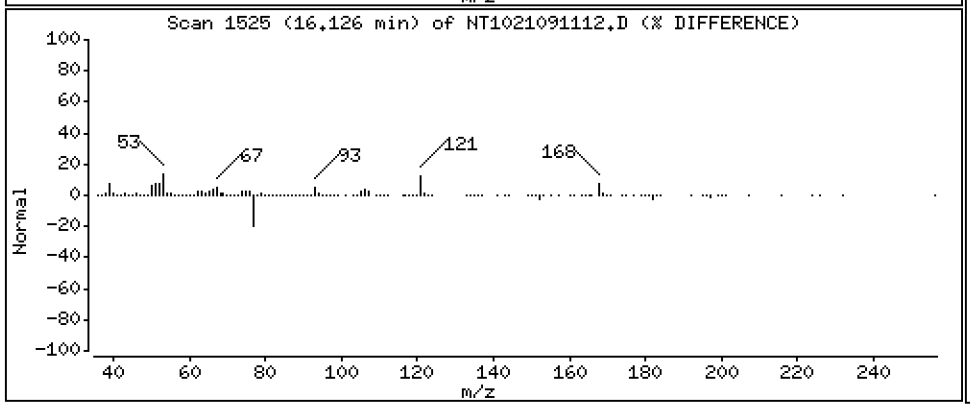












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

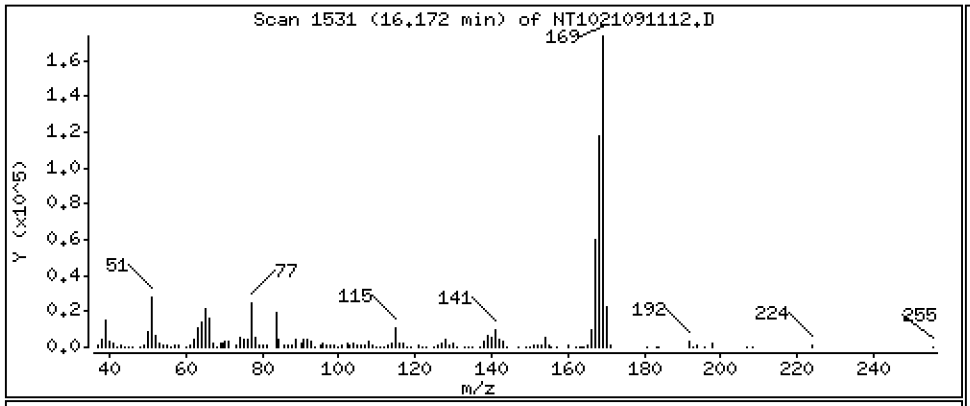
Operator: VTS

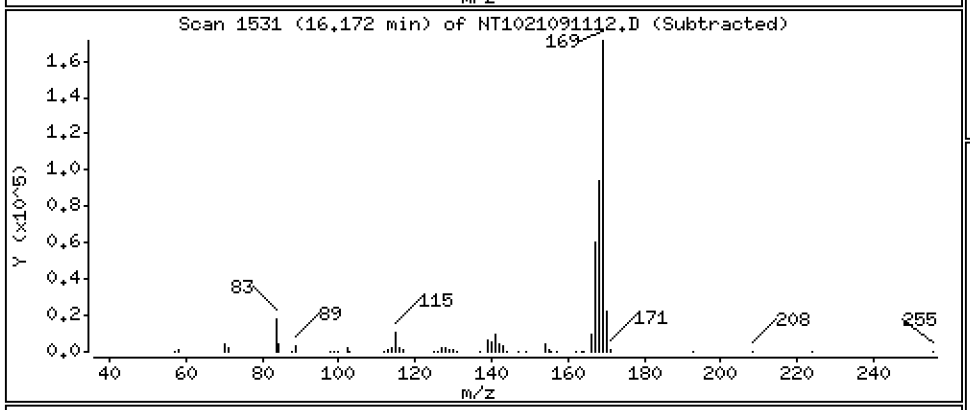
Column phase: ZB-5msi

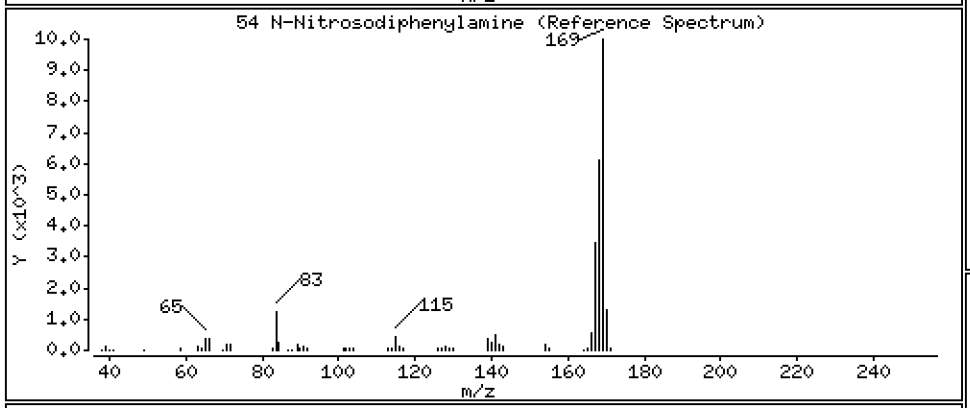
Column diameter: 0.25

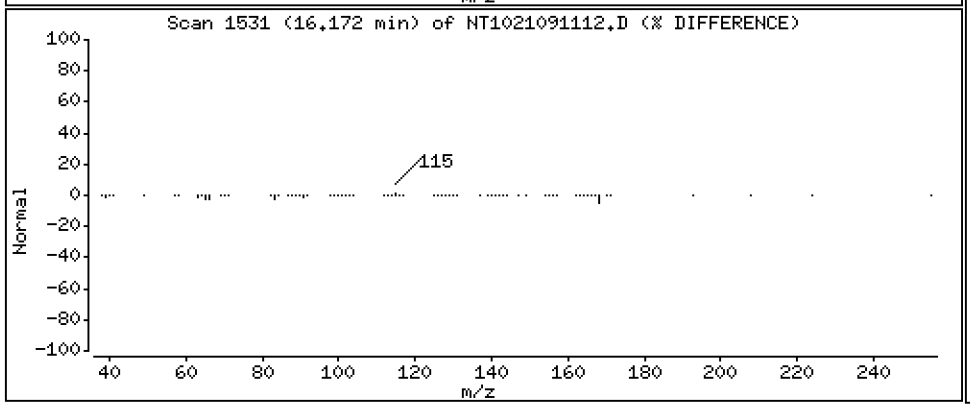
54 N-Nitrosodiphenylamine

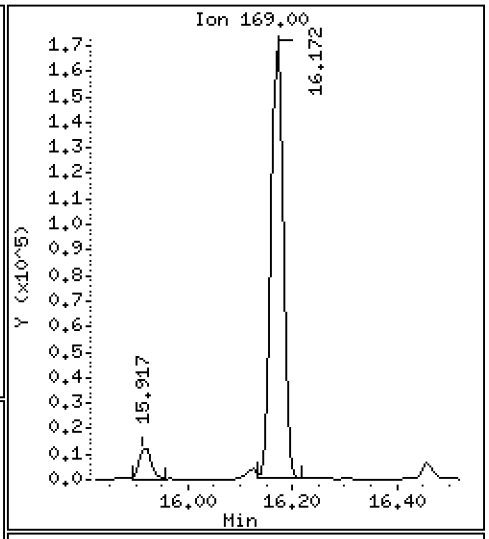
Concentration: 4.223 ug/mL

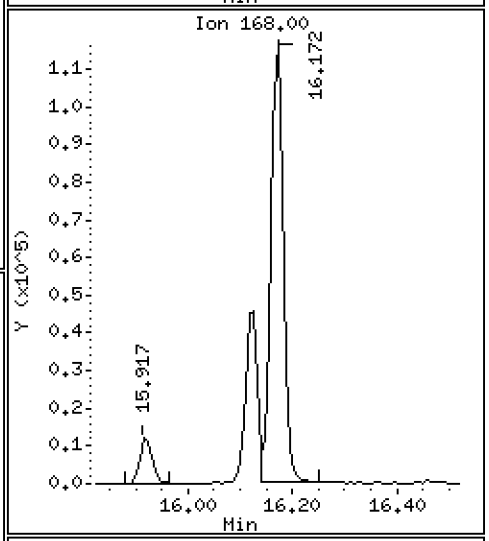


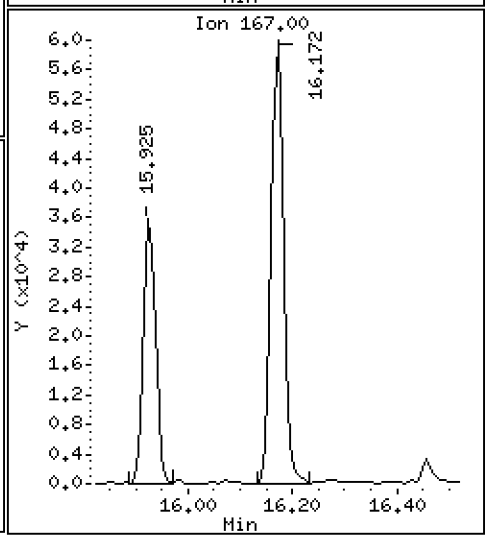












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

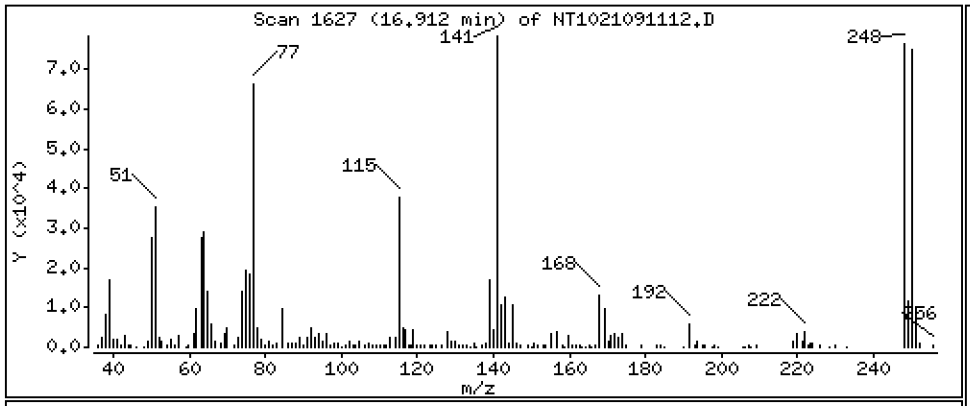
Operator: VTS

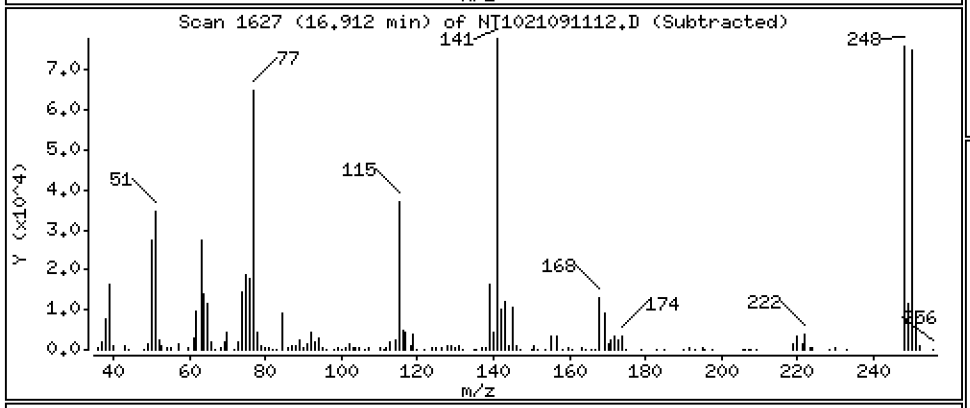
Column phase: ZB-5msi

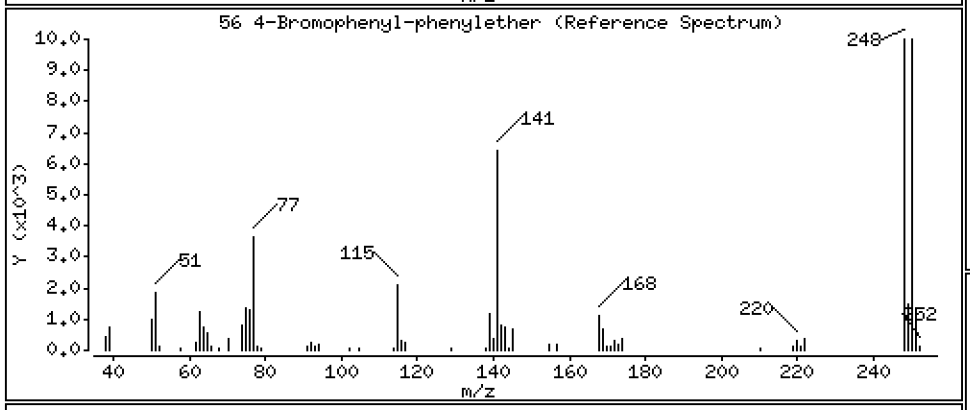
Column diameter: 0.25

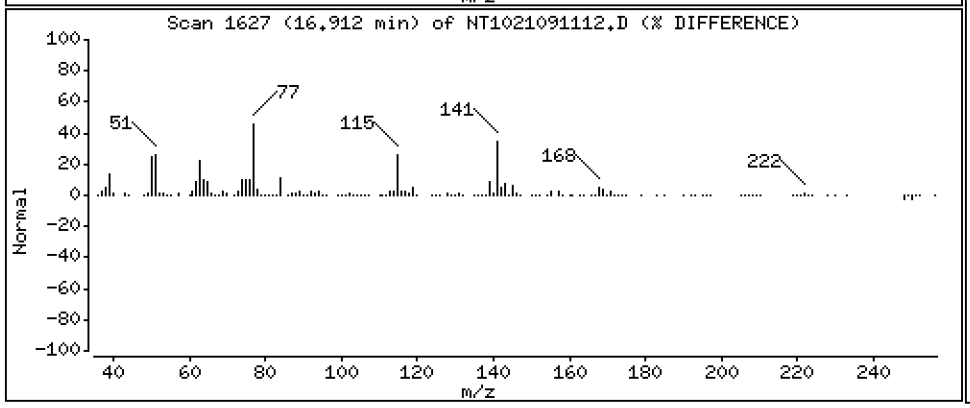
56 4-Bromophenyl-phenylether

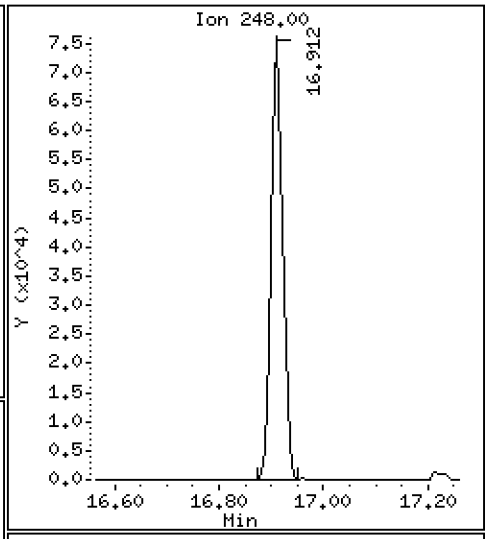
Concentration: 4.597 ug/mL

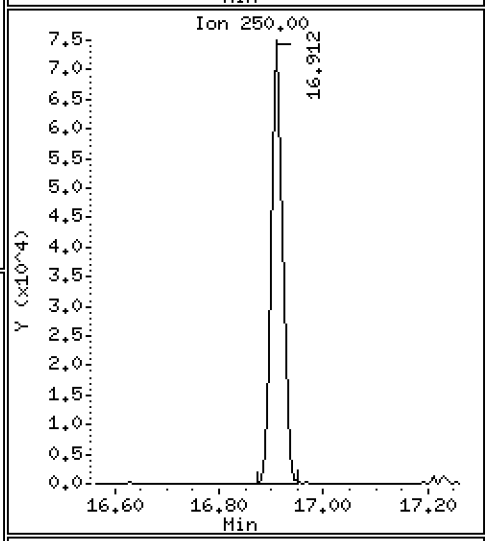


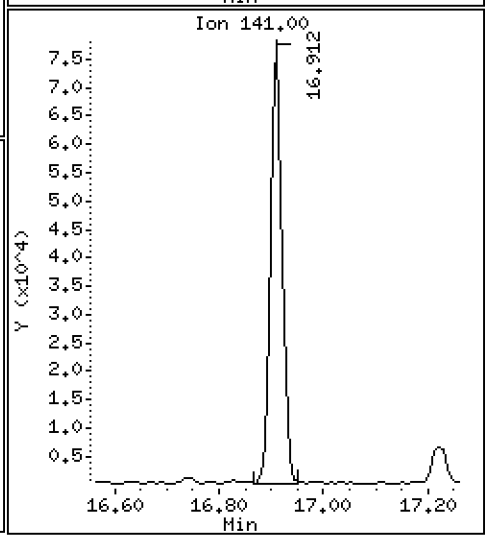












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

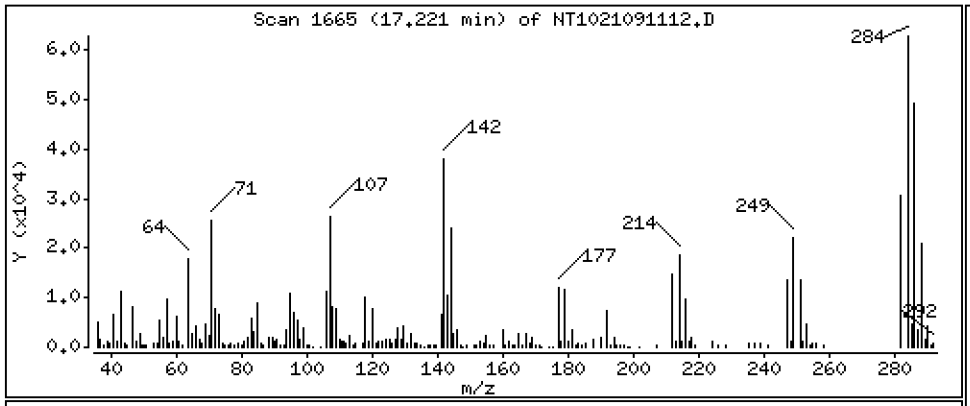
Operator: VTS

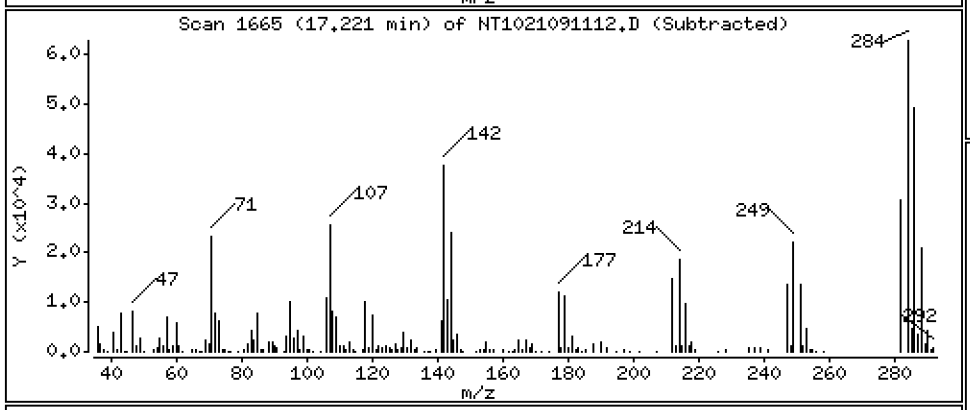
Column phase: ZB-5msi

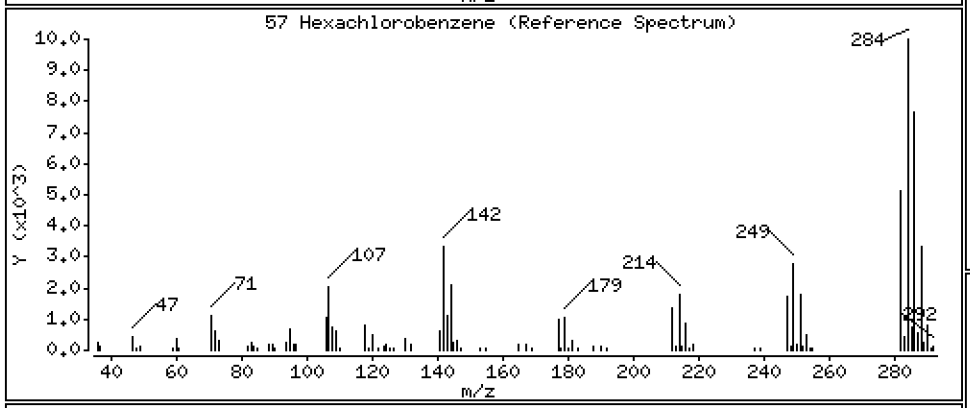
Column diameter: 0.25

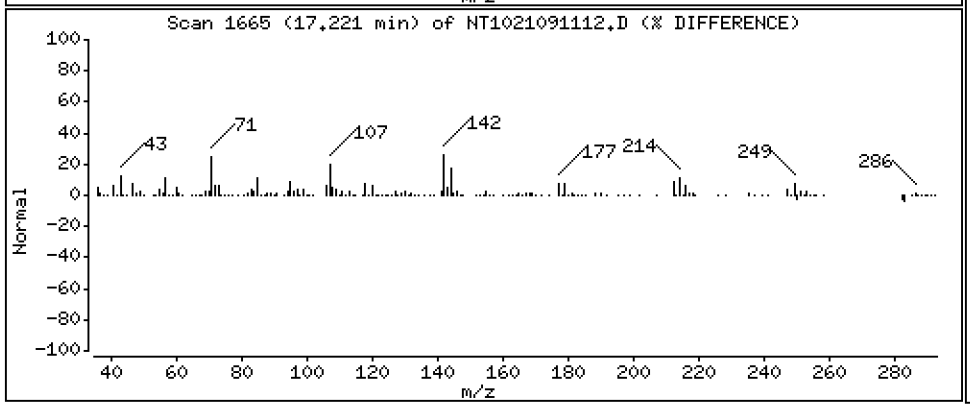
57 Hexachlorobenzene

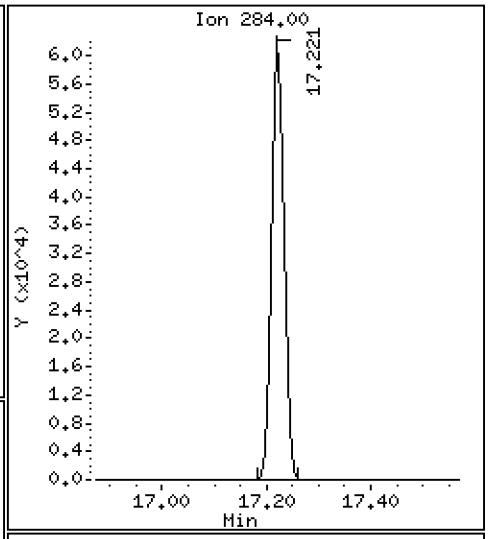
Concentration: 4.237 ug/mL

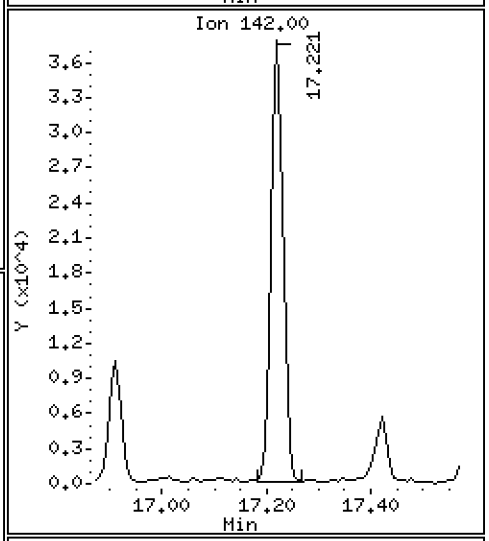


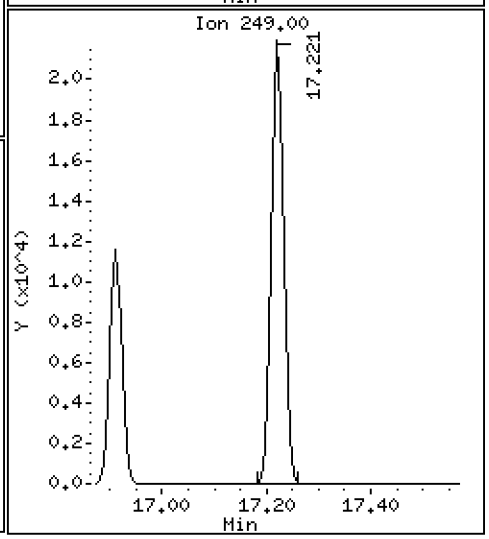












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

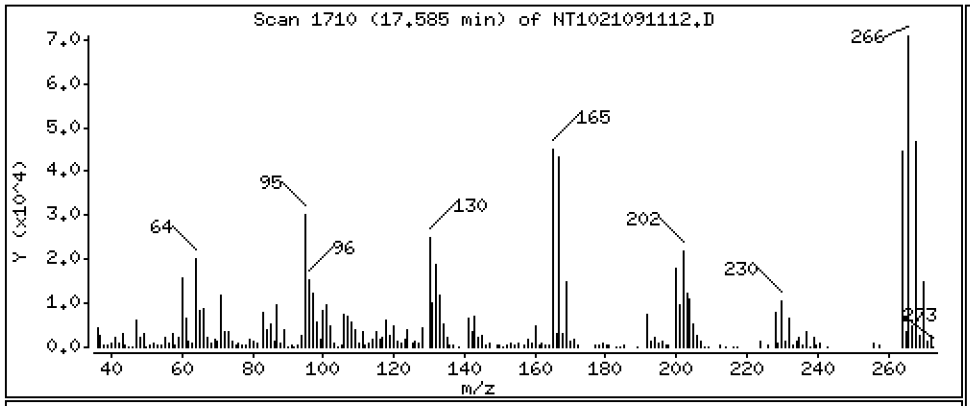
Operator: VTS

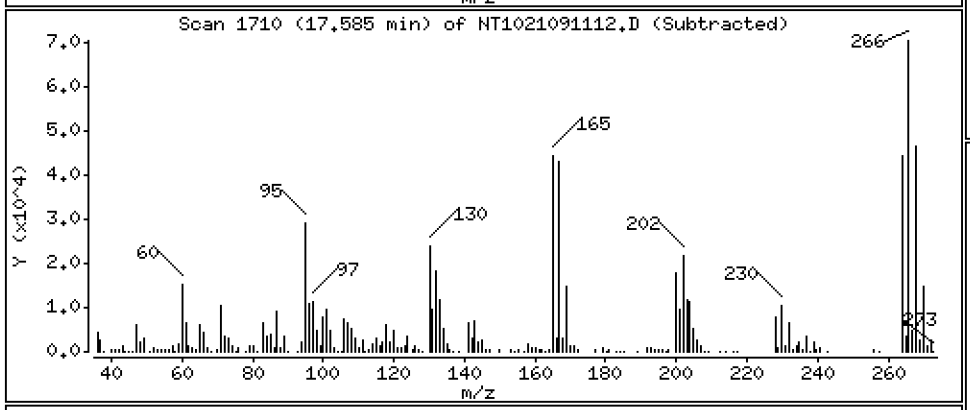
Column phase: ZB-5msi

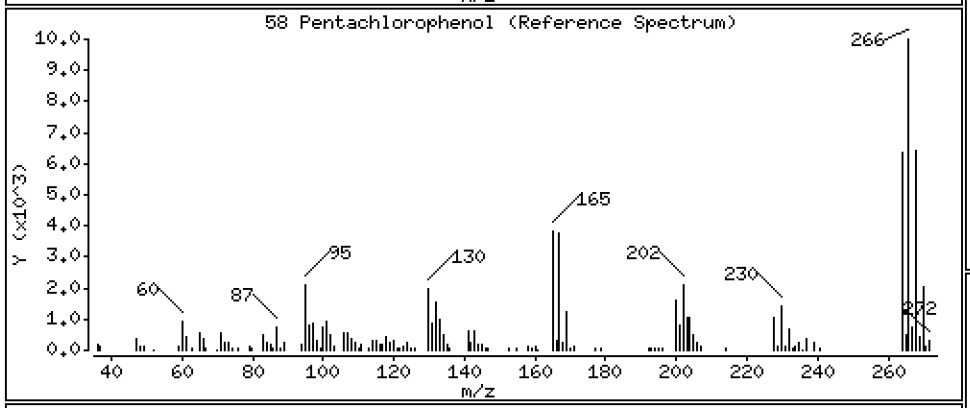
Column diameter: 0.25

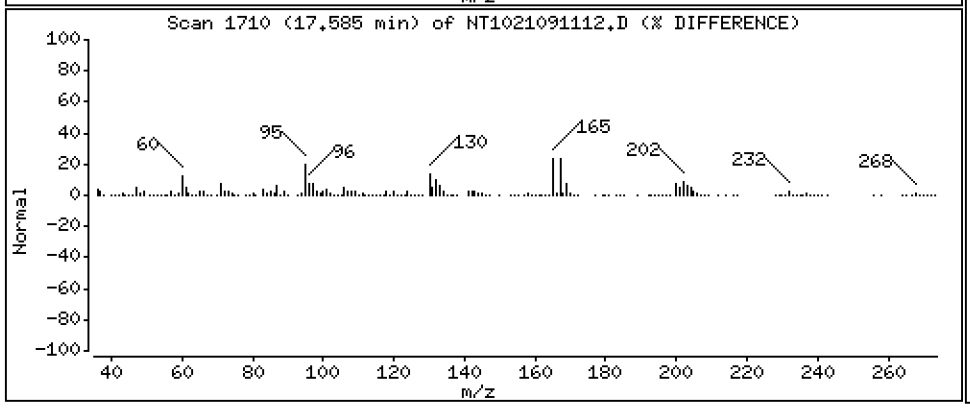
58 Pentachlorophenol

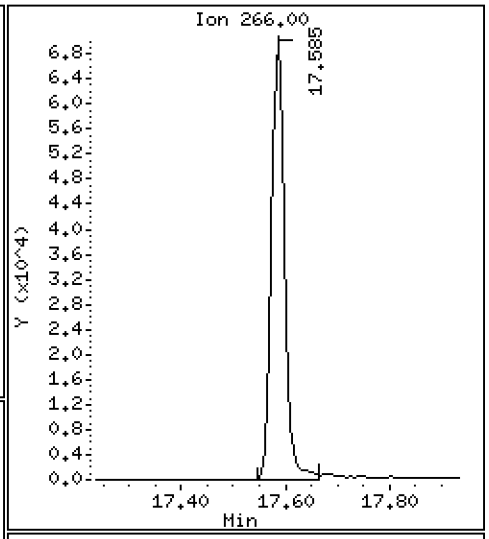
Concentration: 13.02 ug/mL

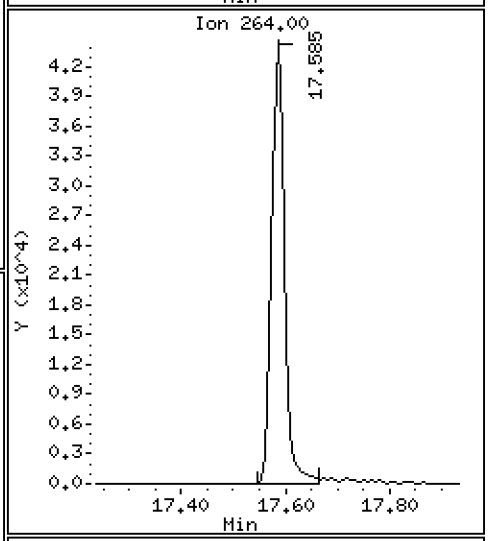


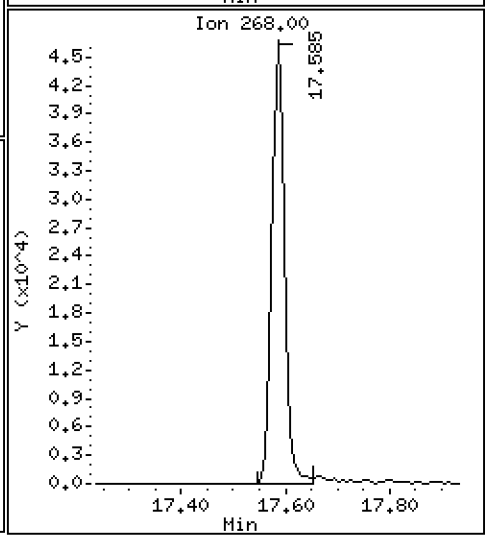












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

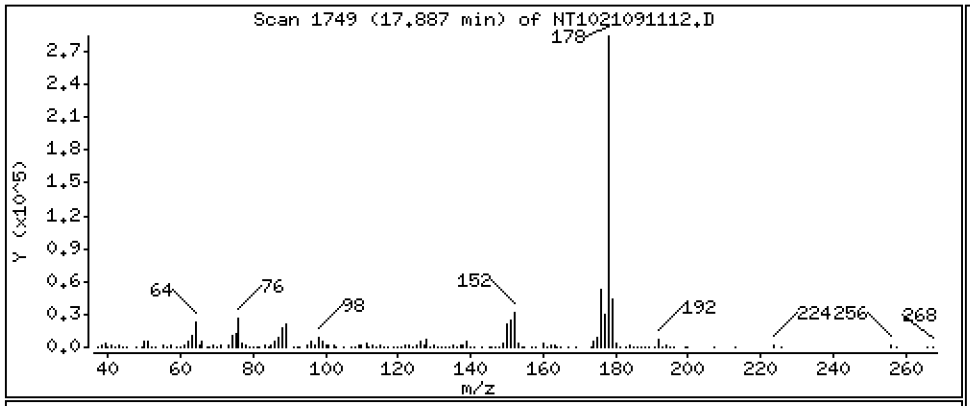
Operator: VTS

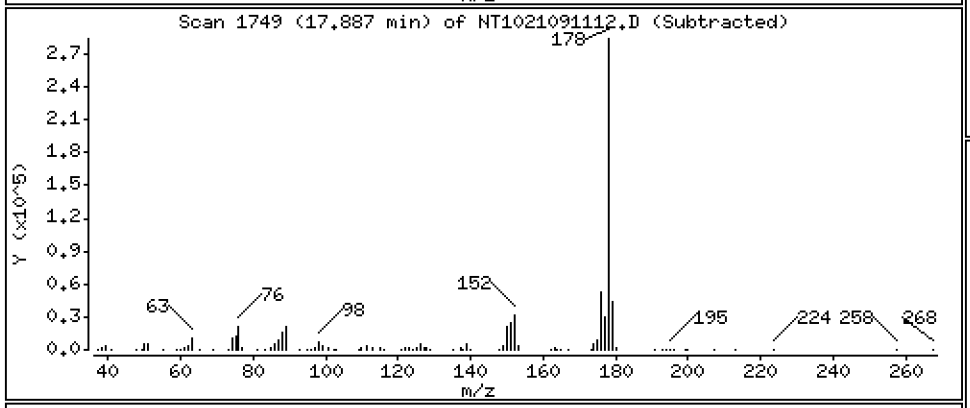
Column phase: ZB-5msi

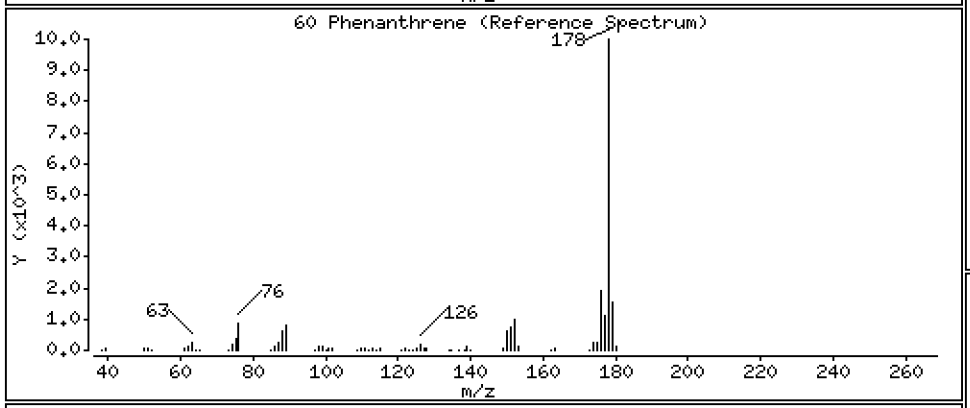
Column diameter: 0.25

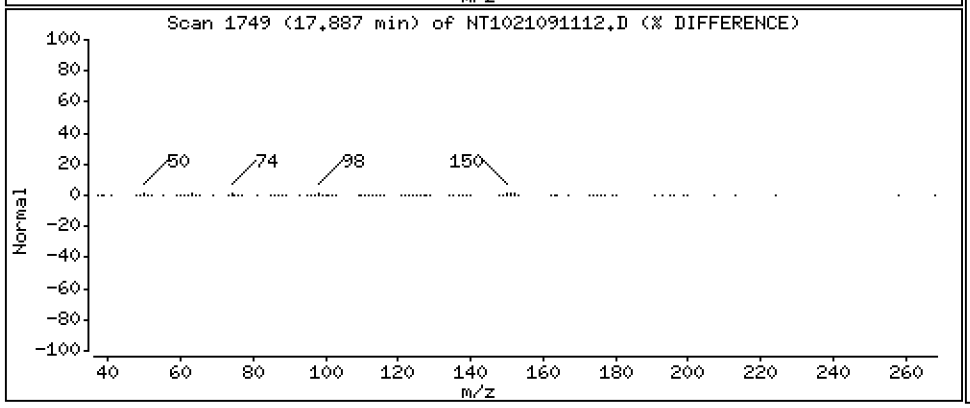
60 Phenanthrene

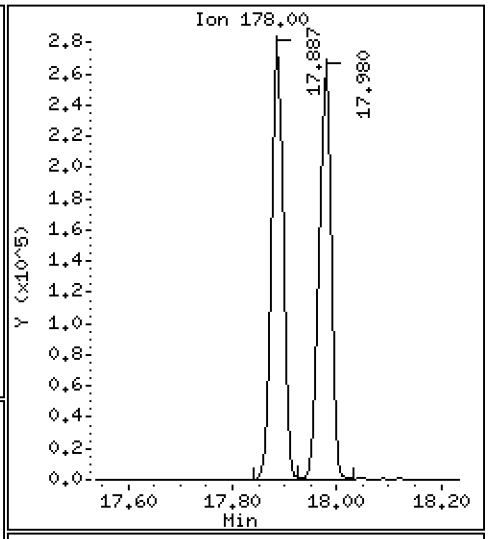
Concentration: 4.050 ug/mL

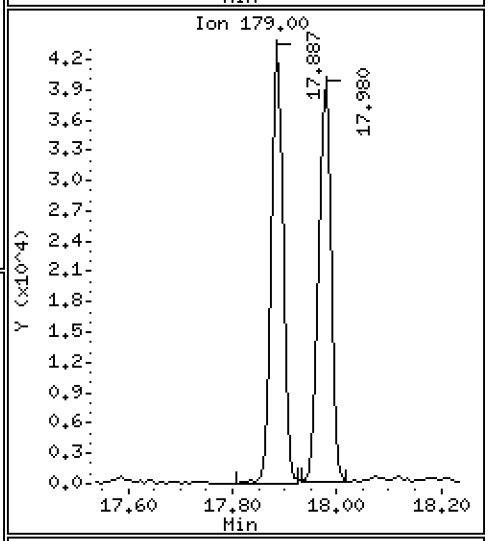


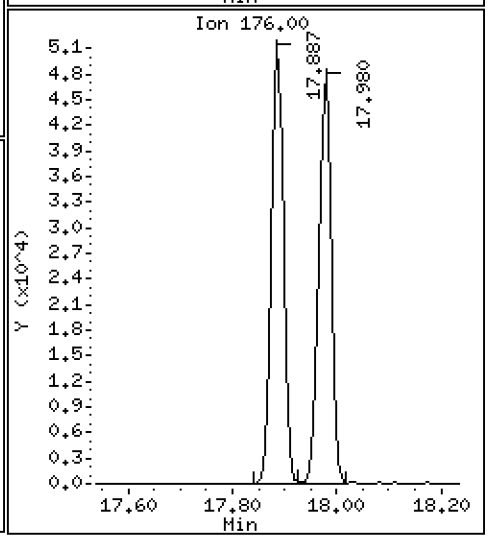












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

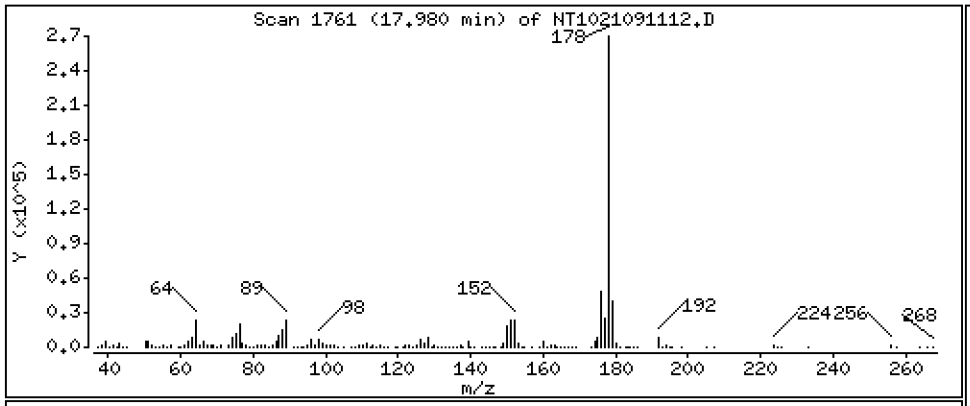
Operator: VTS

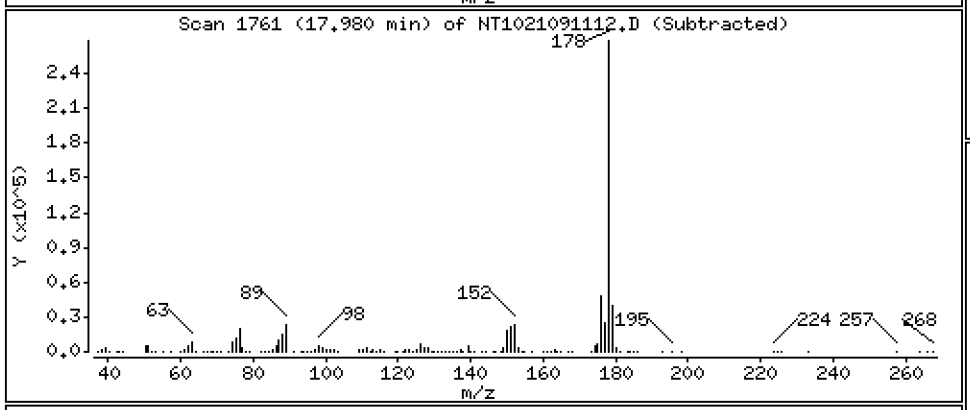
Column phase: ZB-5msi

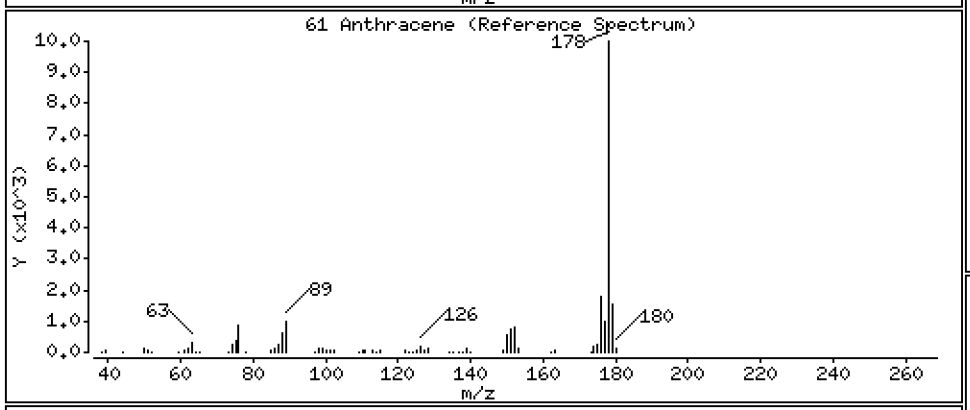
Column diameter: 0.25

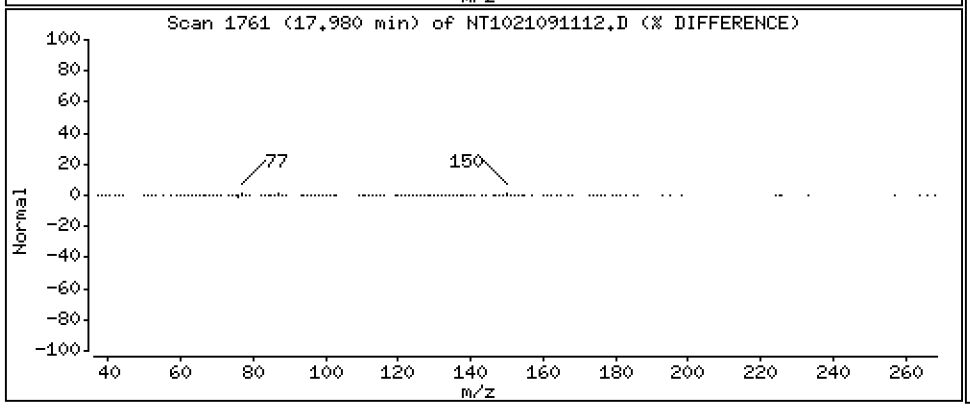
61 Anthracene

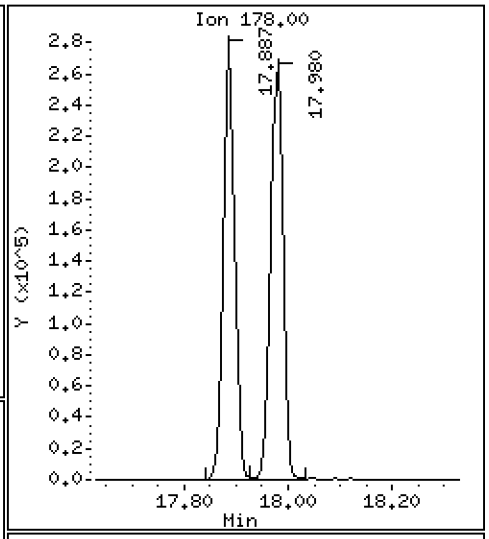
Concentration: 3.851 ug/mL

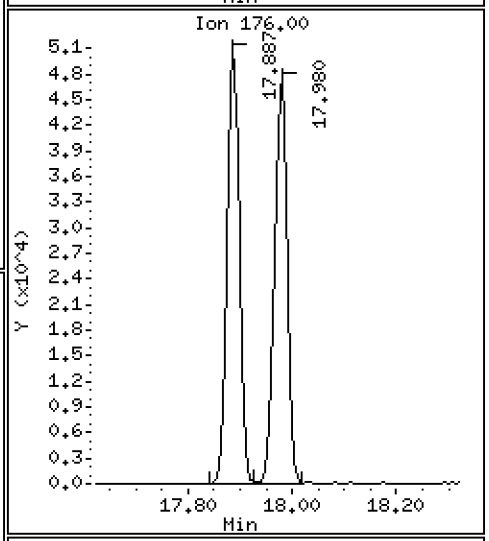


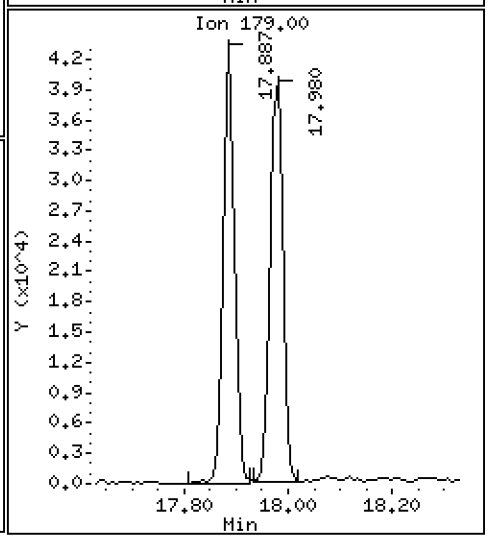












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

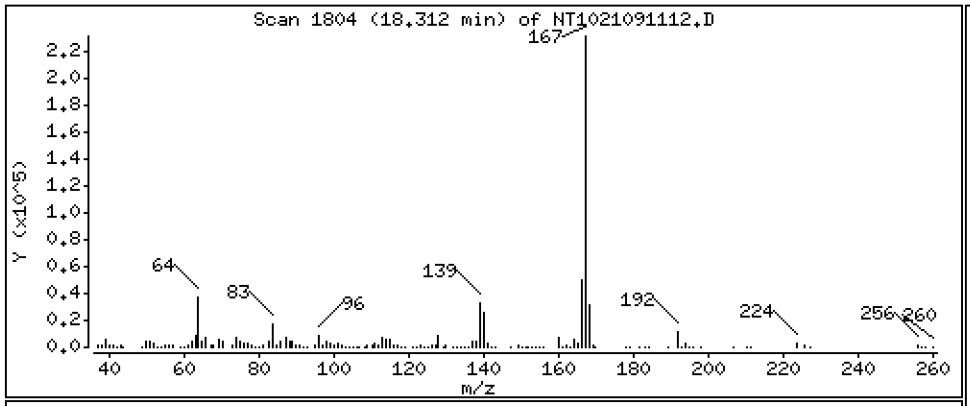
Operator: VTS

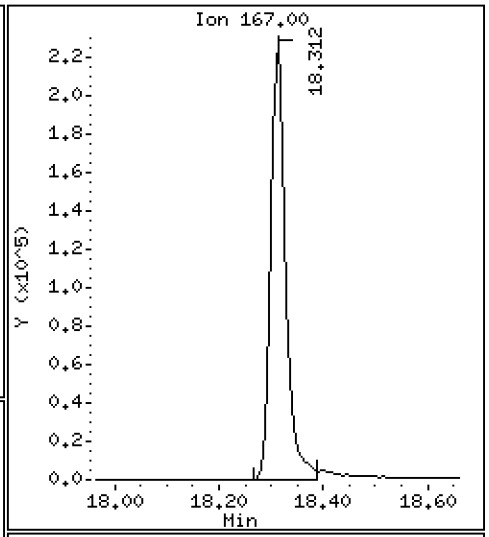
Column phase: ZB-5msi

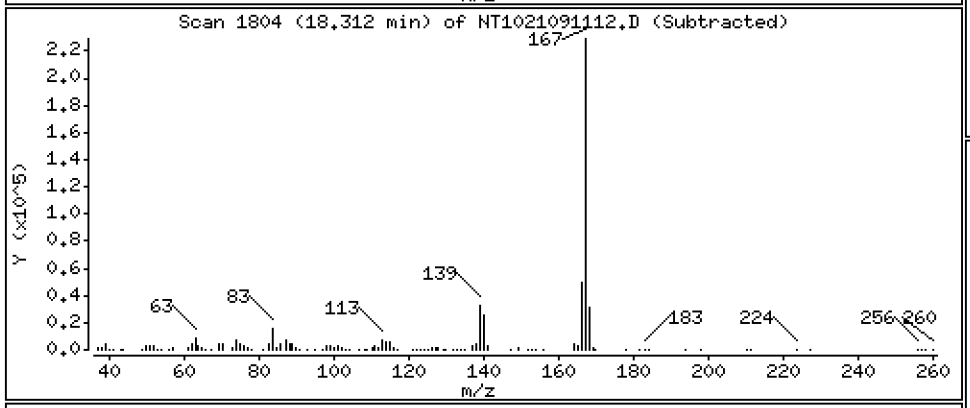
Column diameter: 0.25

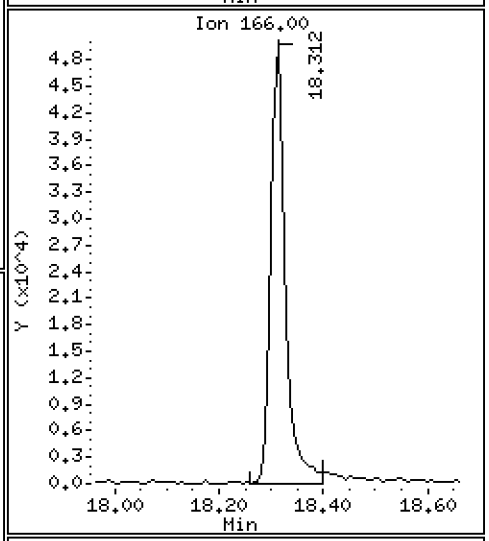
62 Carbazole

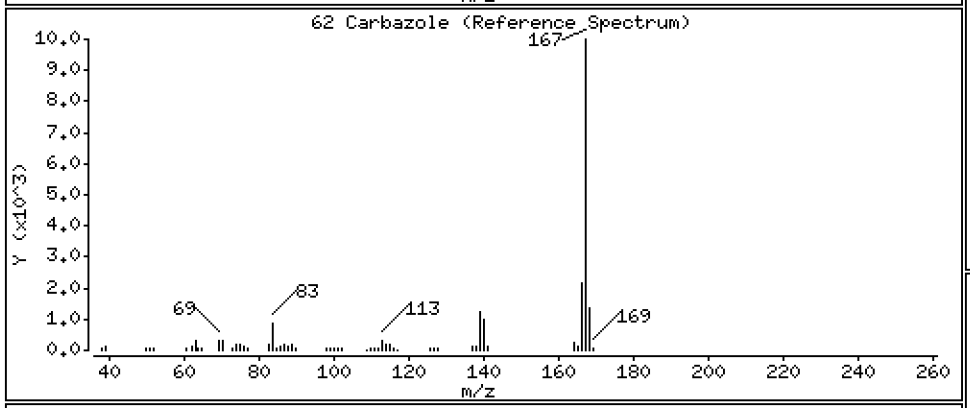
Concentration: 3.837 ug/mL

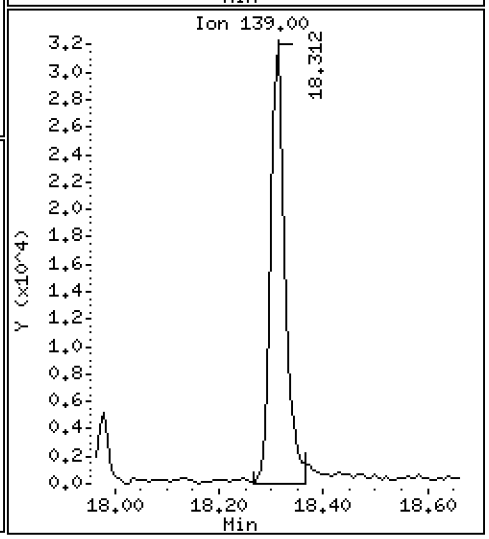


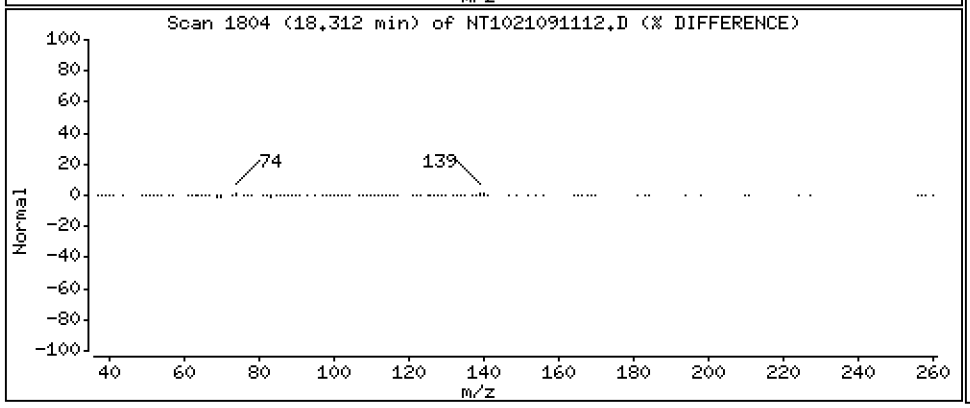












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

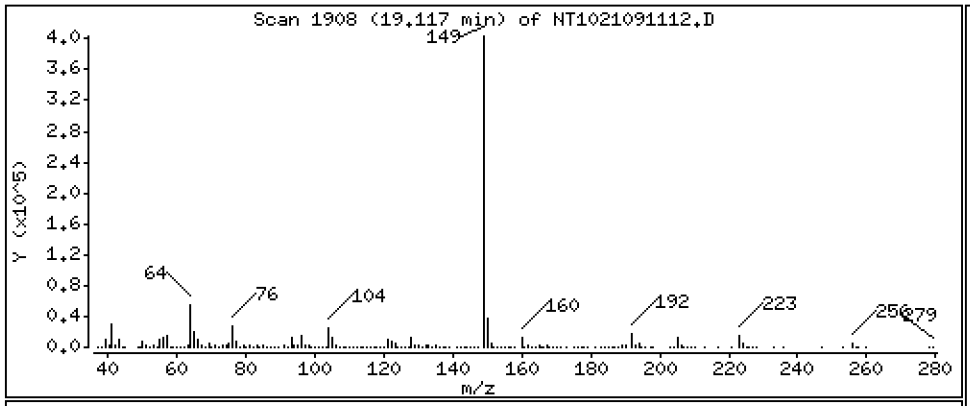
Operator: VTS

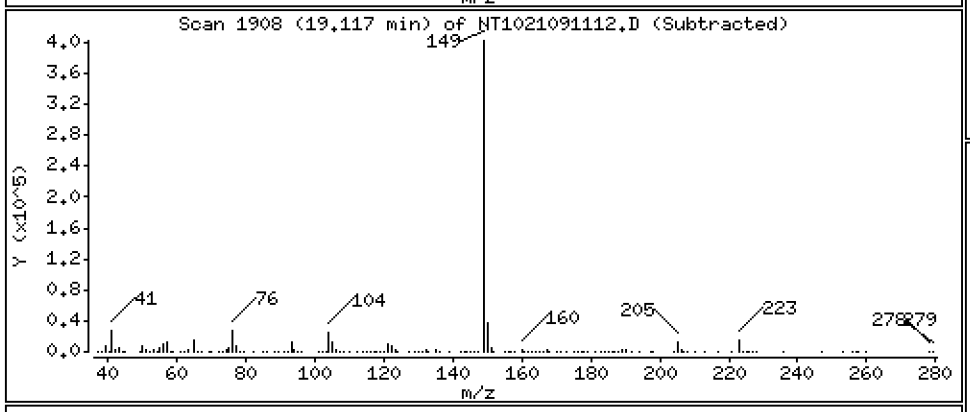
Column phase: ZB-5msi

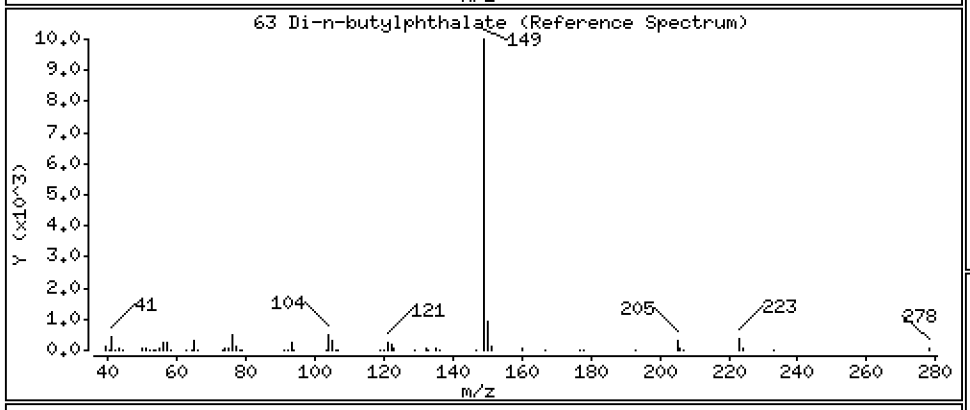
Column diameter: 0.25

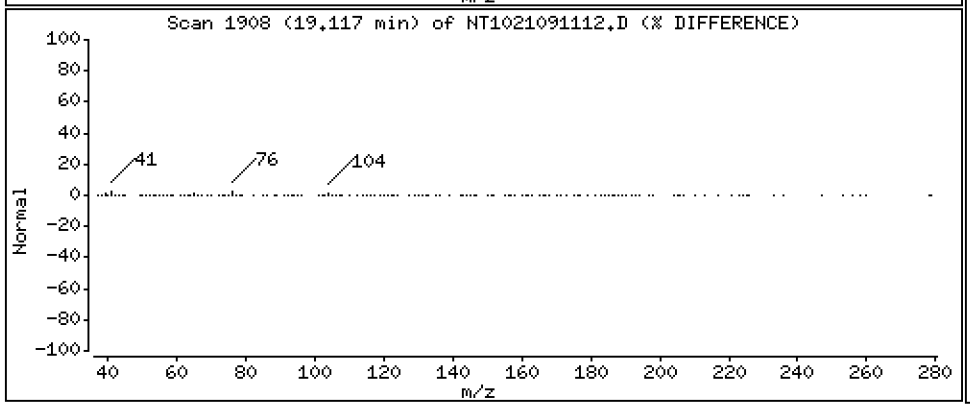
63 Di-n-butylphthalate

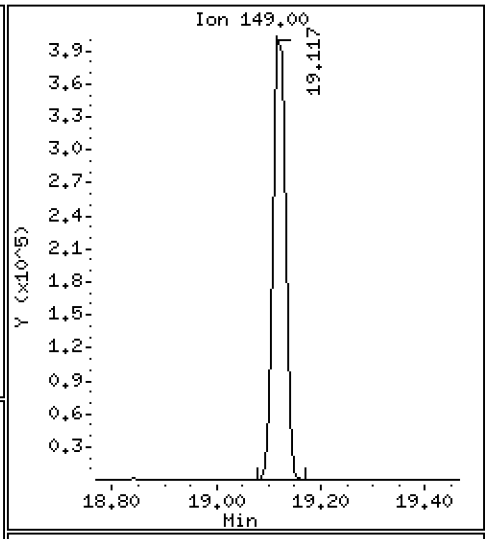
Concentration: 4.572 ug/mL

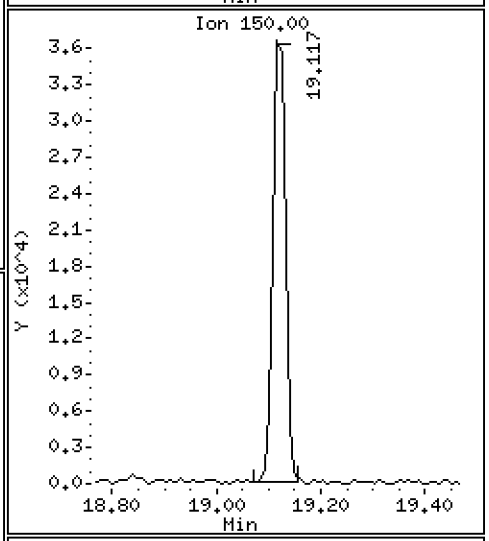


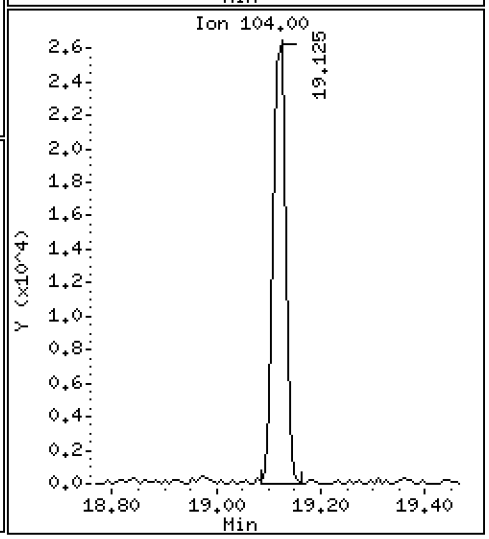












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

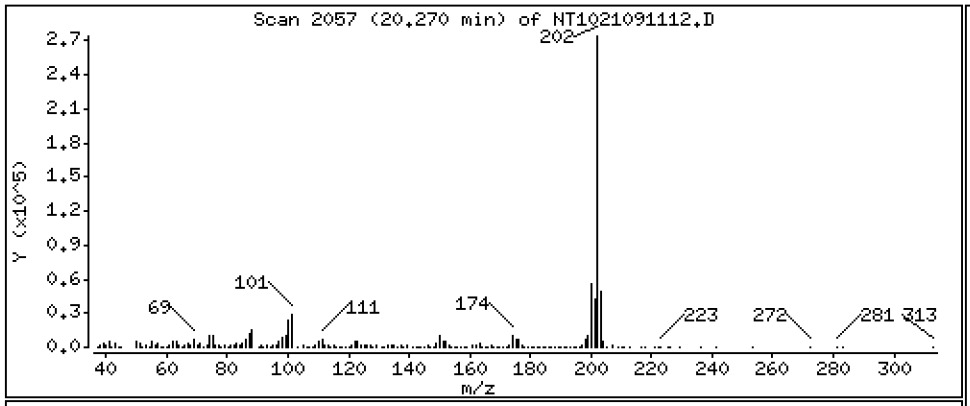
Operator: VTS

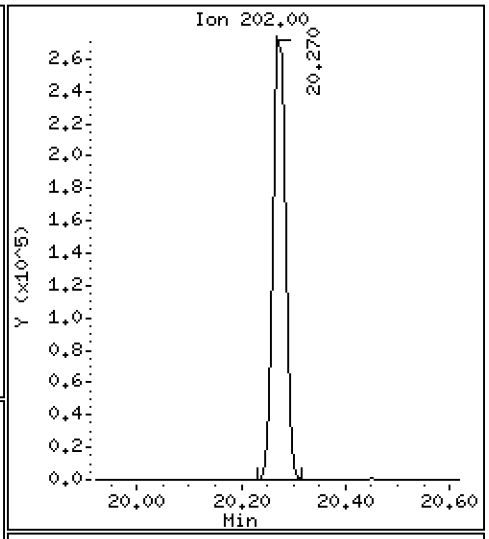
Column phase: ZB-5msi

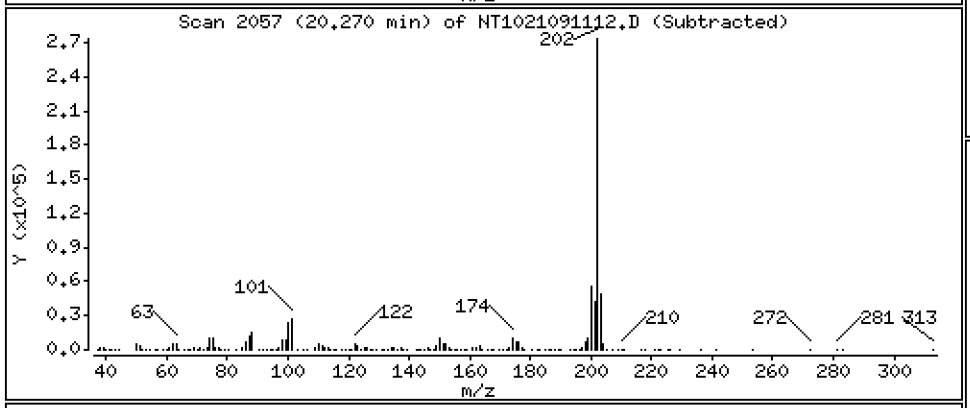
Column diameter: 0.25

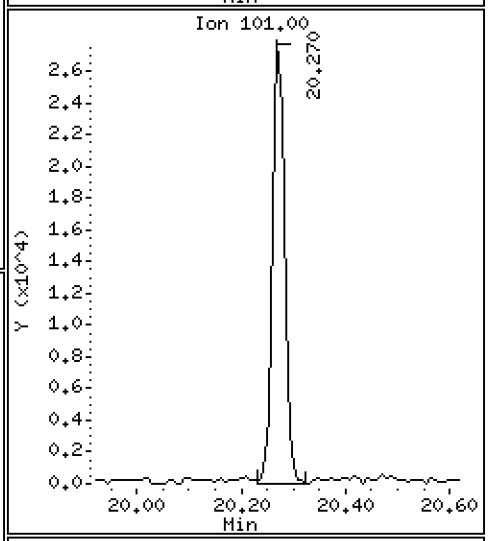
64 Fluoranthene

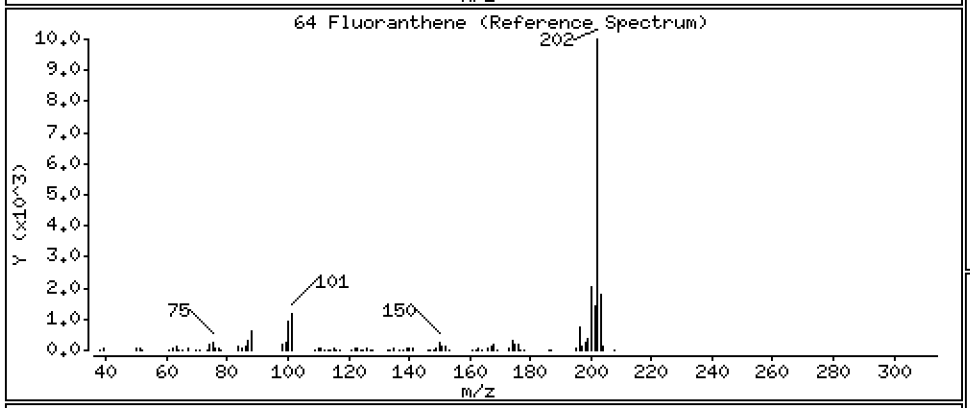
Concentration: 5.765 ug/mL

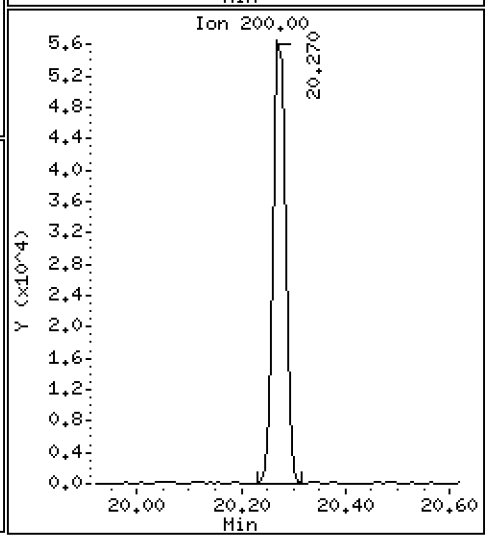


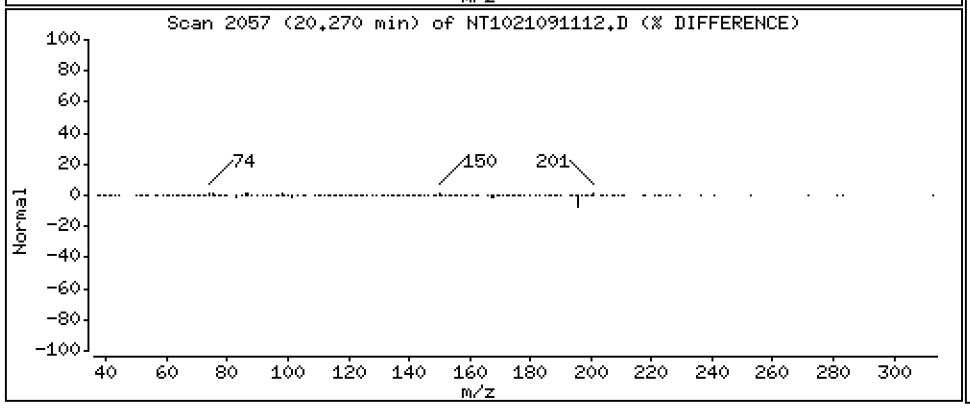












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

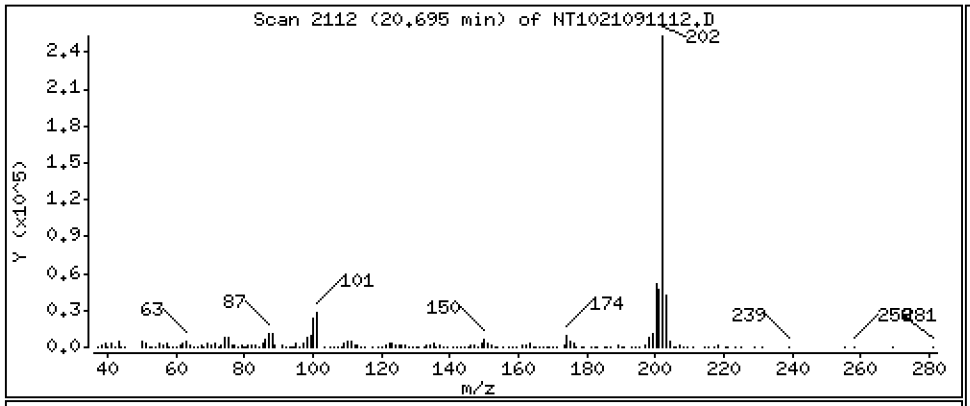
Operator: VTS

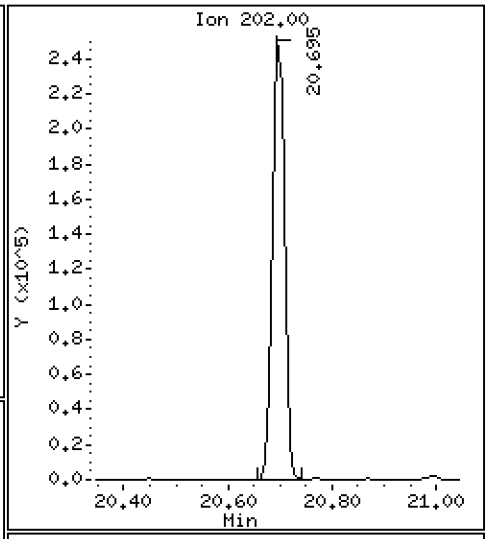
Column phase: ZB-5msi

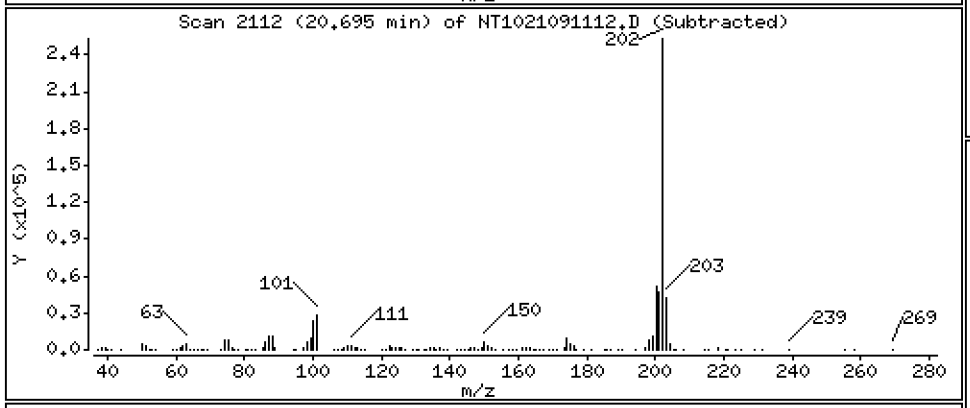
Column diameter: 0.25

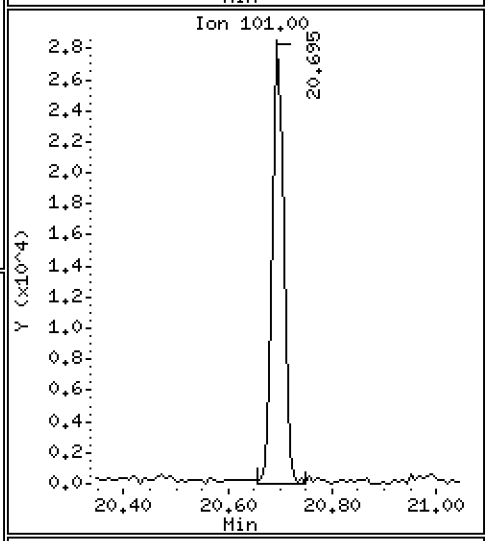
65 Pyrene

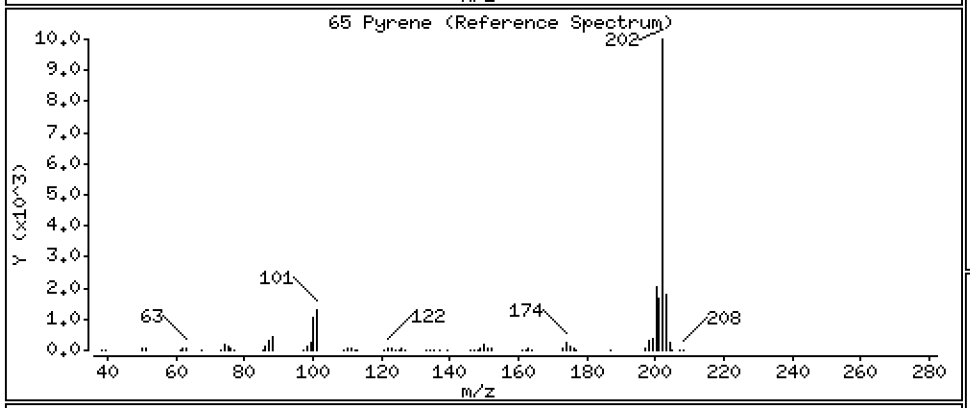
Concentration: 4.971 ug/mL

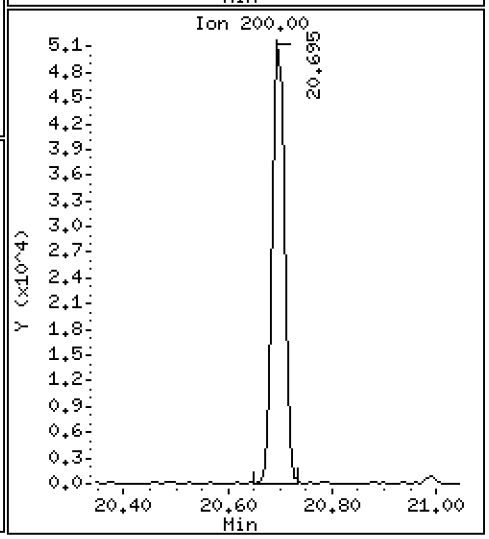


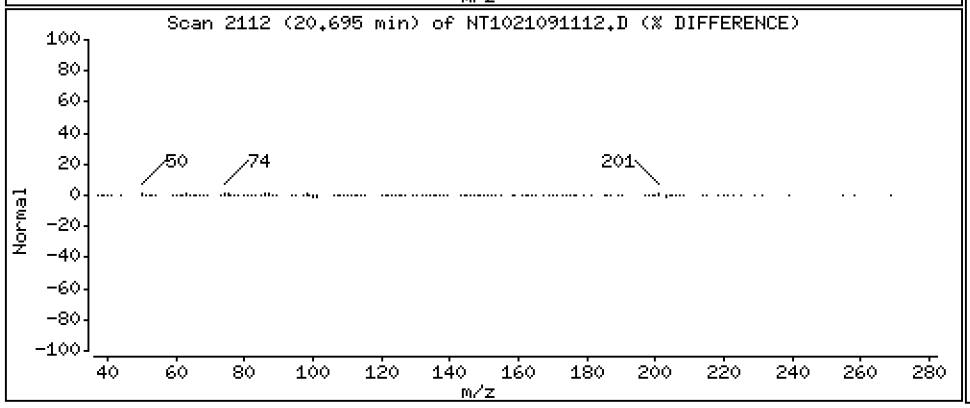












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

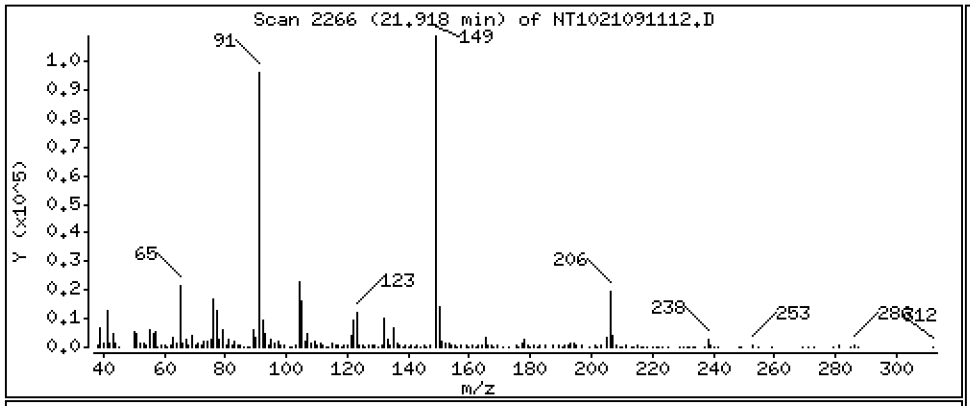
Operator: VTS

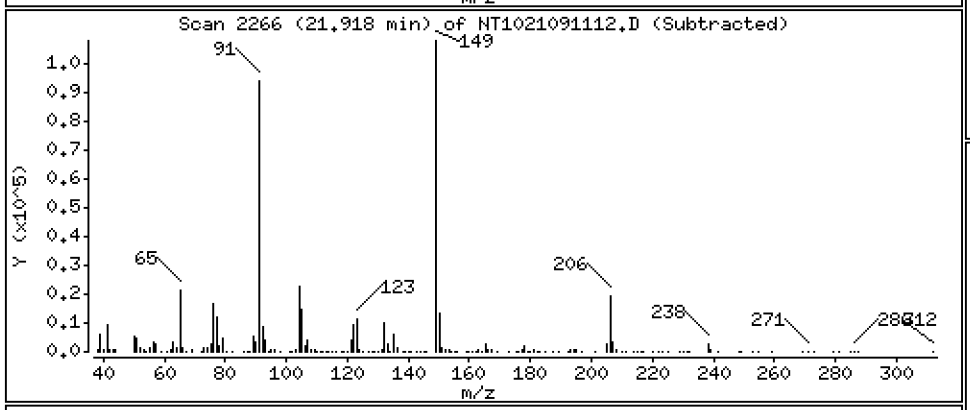
Column phase: ZB-5msi

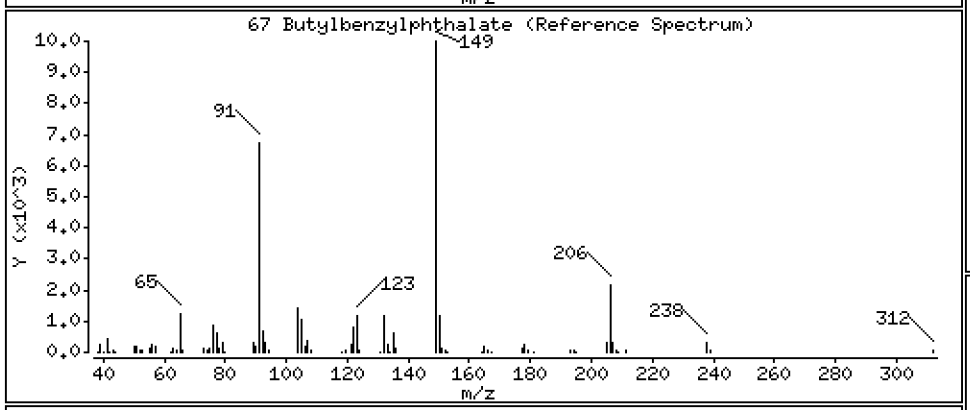
Column diameter: 0.25

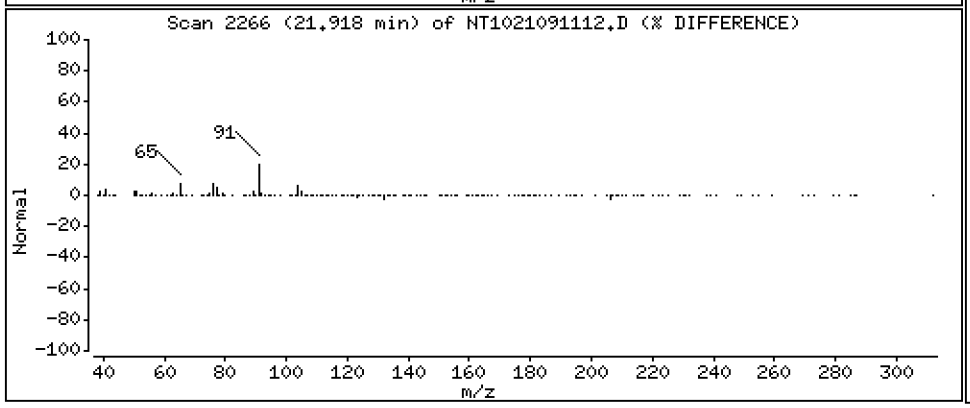
67 Butylbenzylphthalate

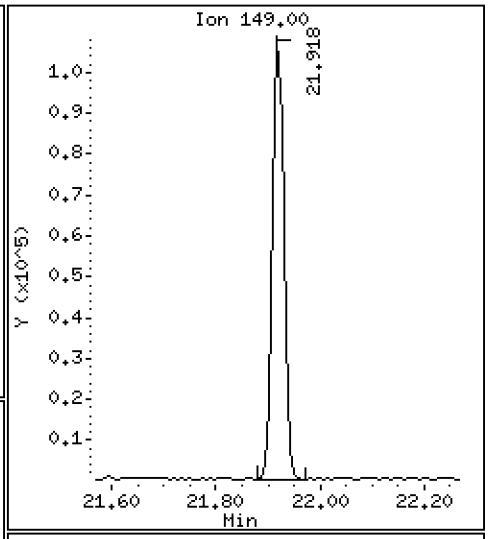
Concentration: 5.135 ug/mL

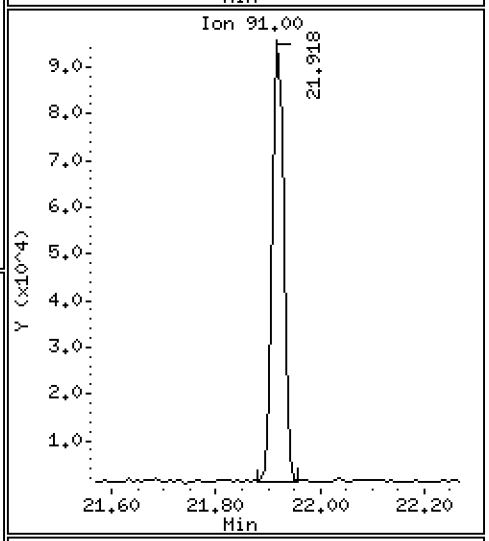


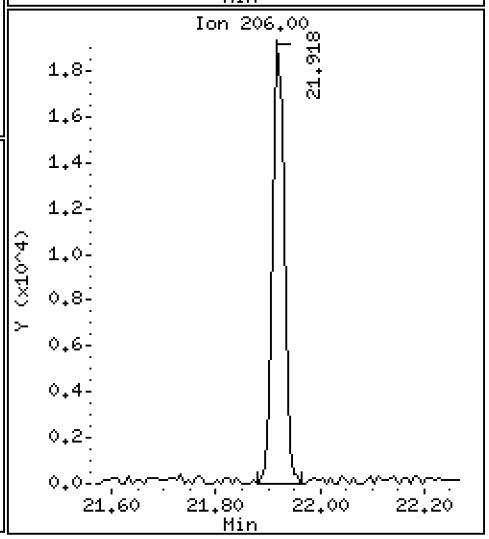












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

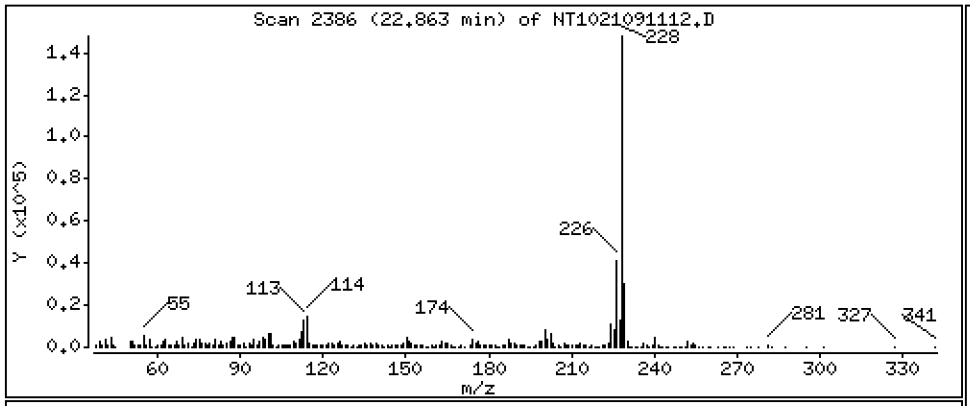
Operator: VTS

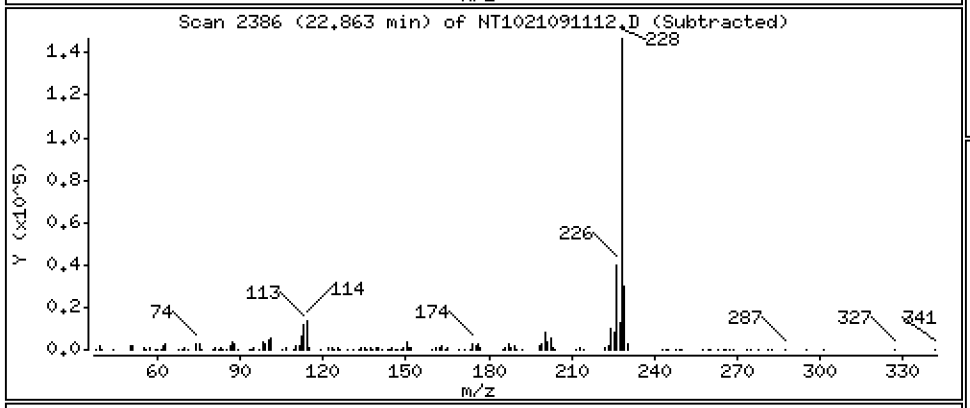
Column phase: ZB-5msi

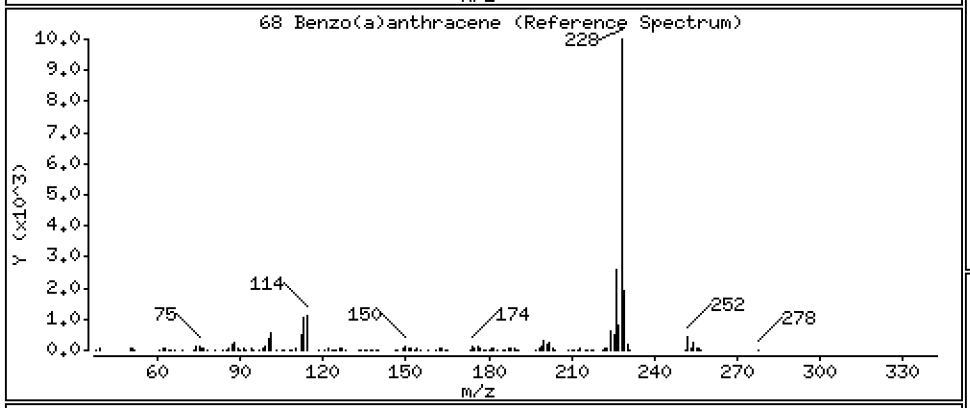
Column diameter: 0.25

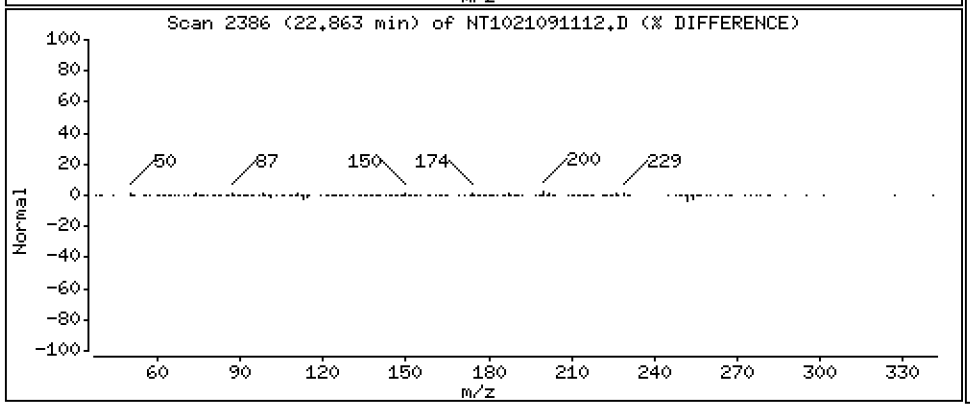
68 Benzo(a)anthracene

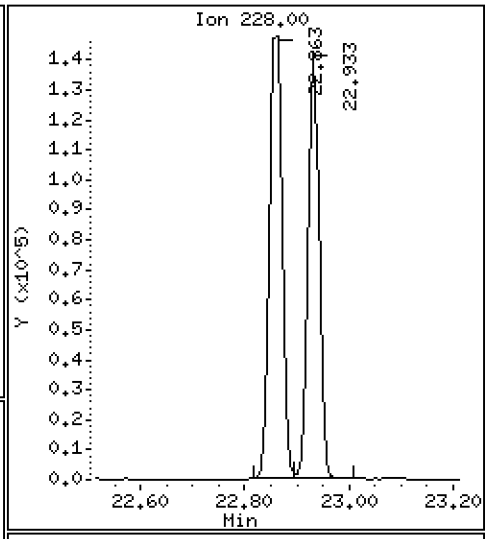
Concentration: 3.993 ug/mL

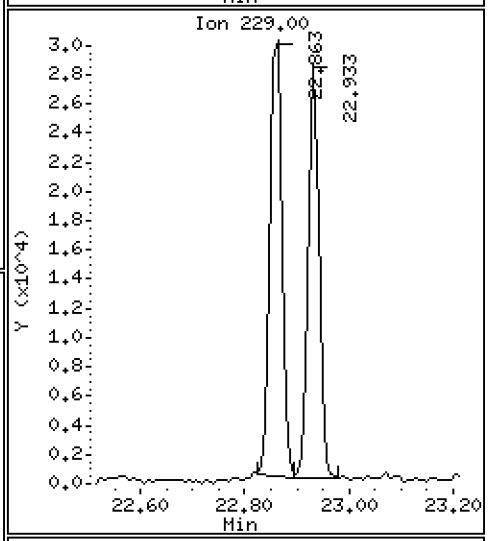


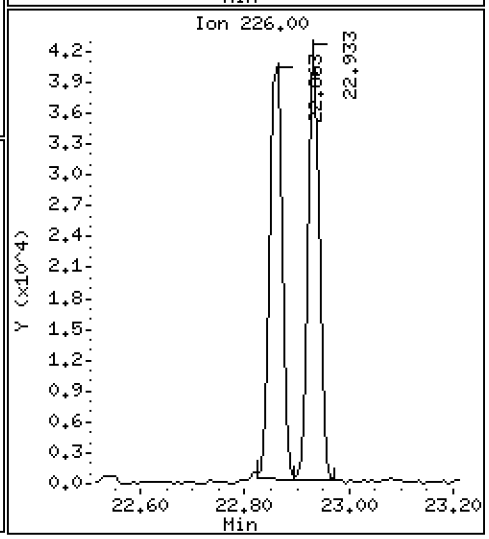












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

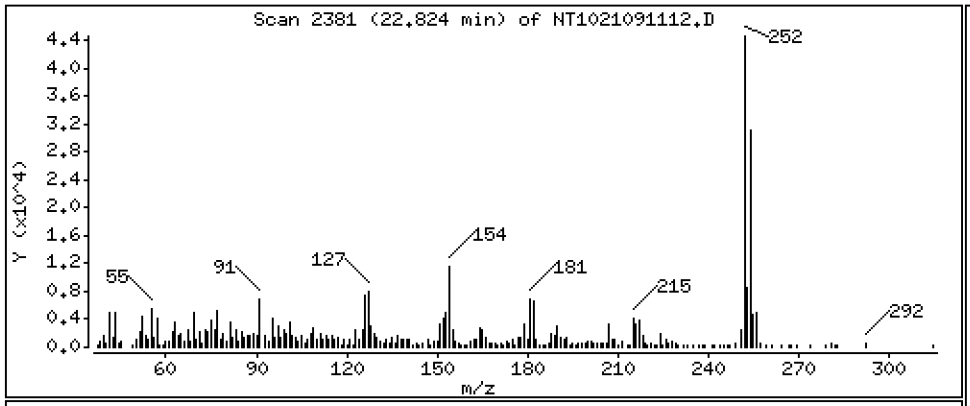
Operator: VTS

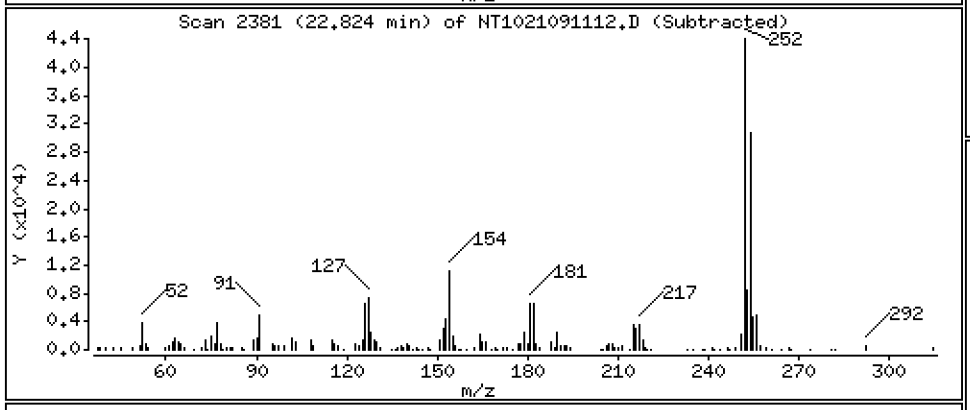
Column phase: ZB-5msi

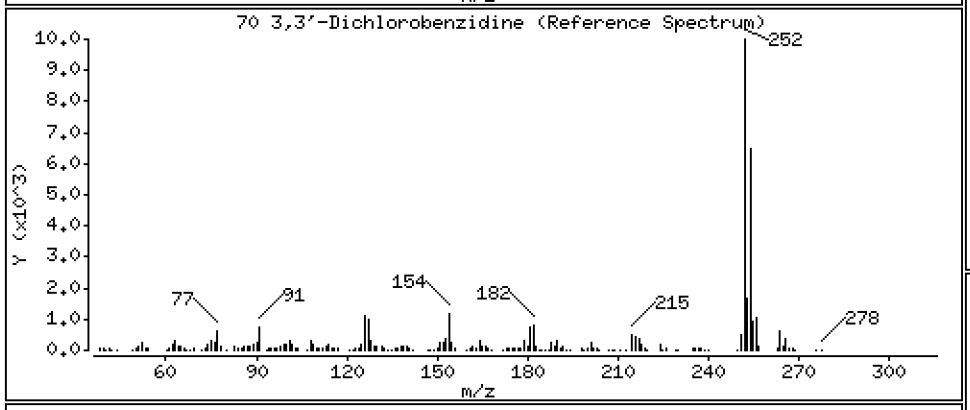
Column diameter: 0.25

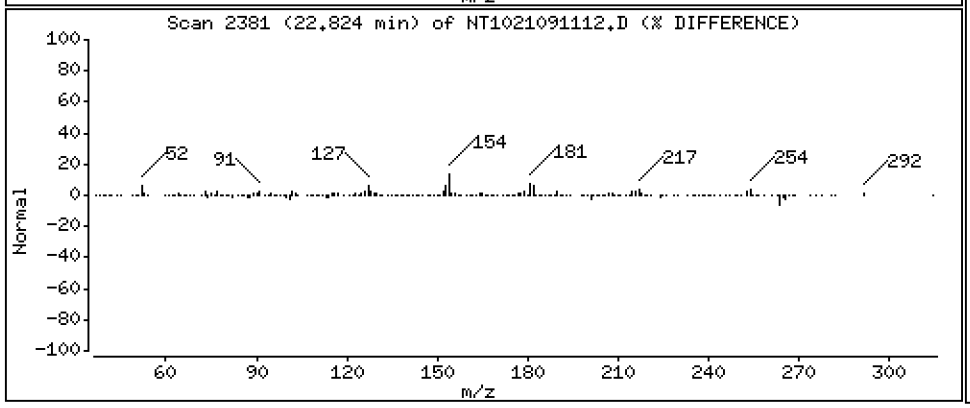
70 3,3'-Dichlorobenzidine

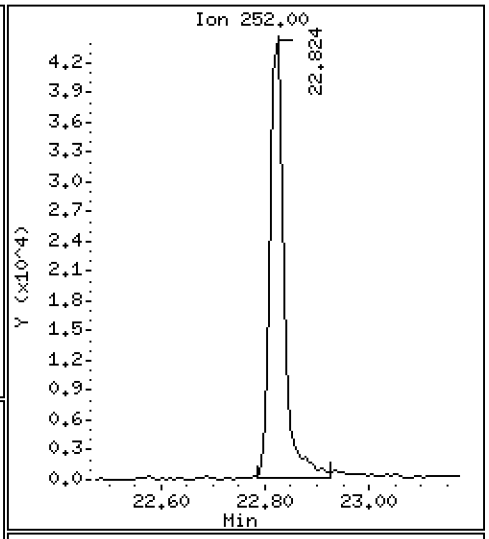
Concentration: 3.366 ug/mL

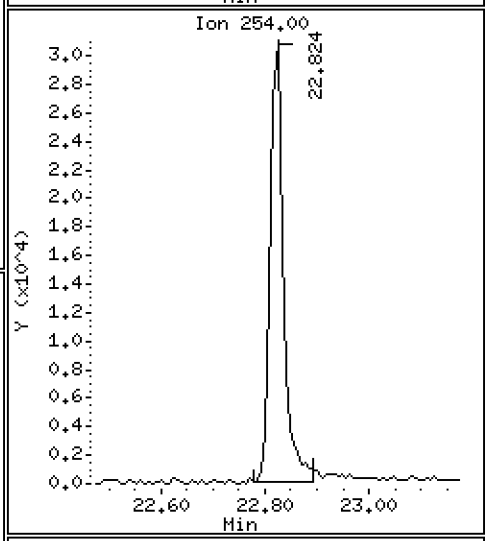


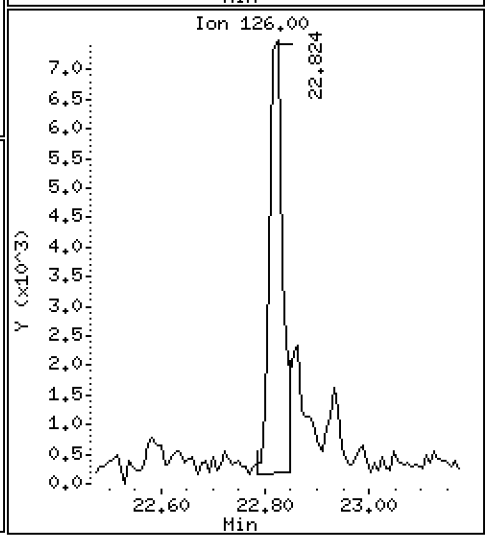












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

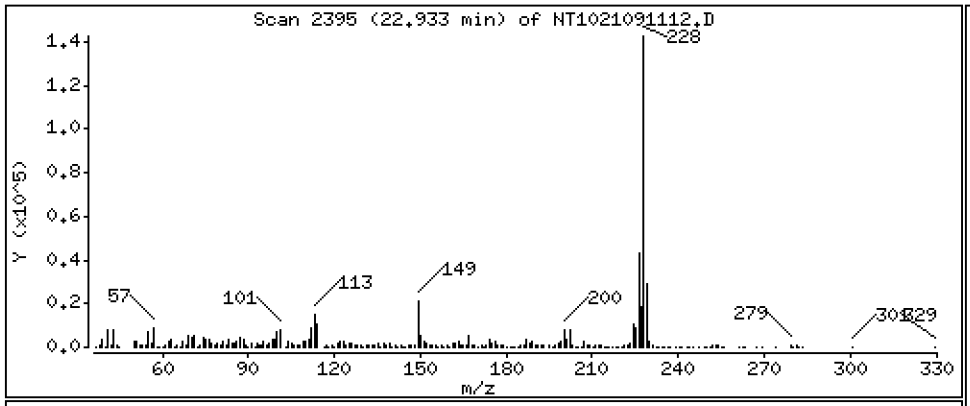
Operator: VTS

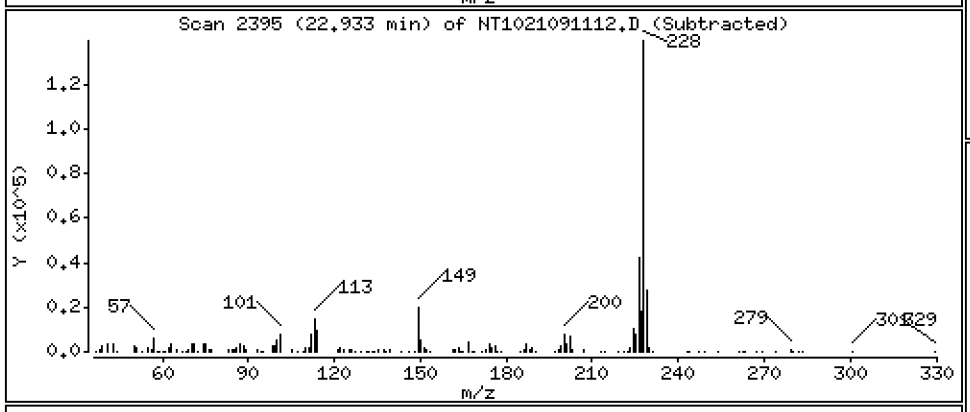
Column phase: ZB-5msi

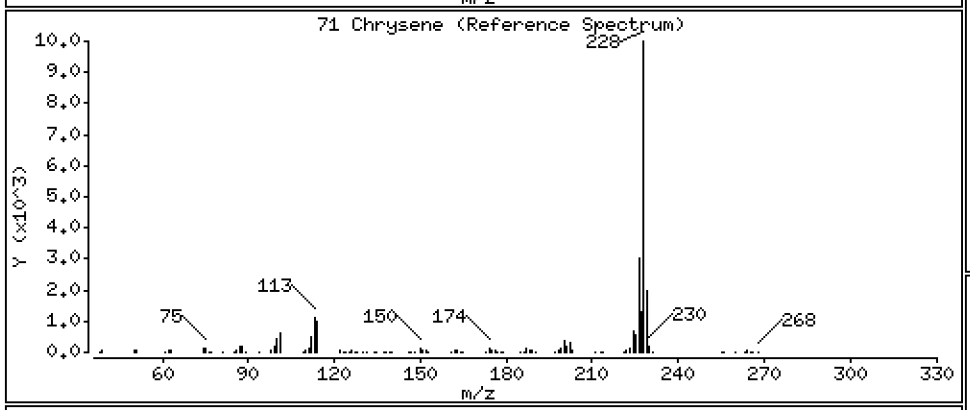
Column diameter: 0.25

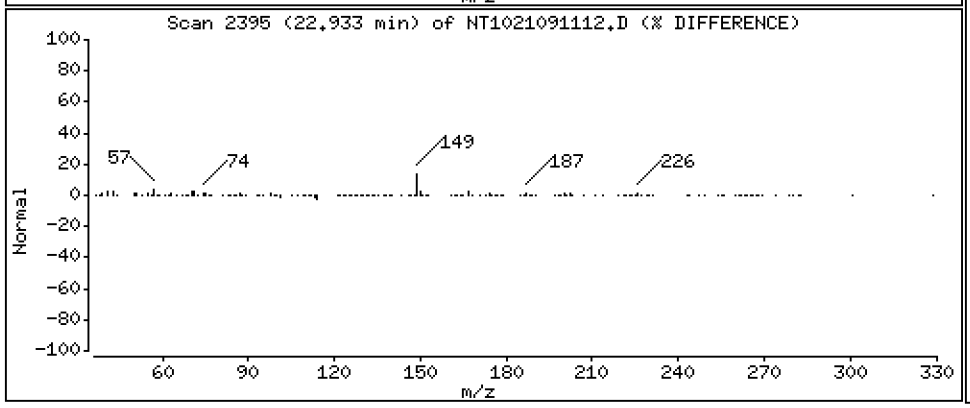
71 Chrysene

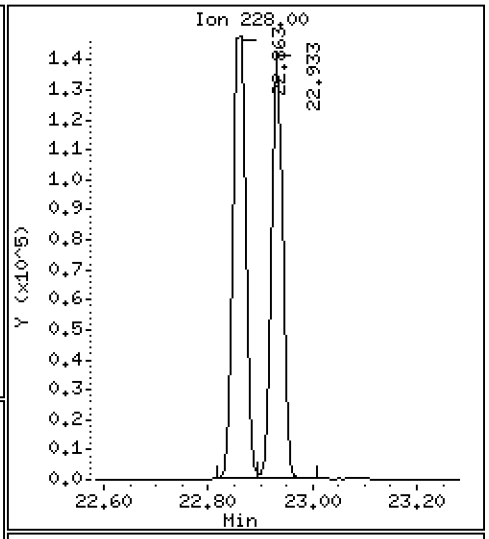
Concentration: 4.204 ug/mL

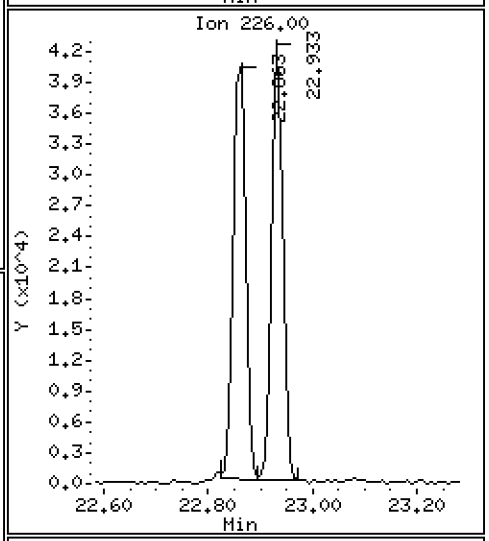


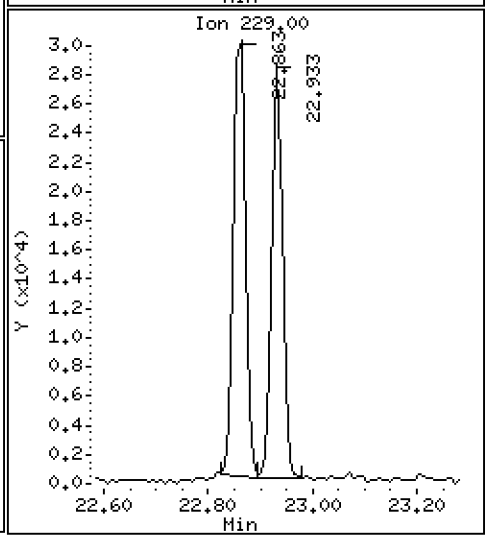












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

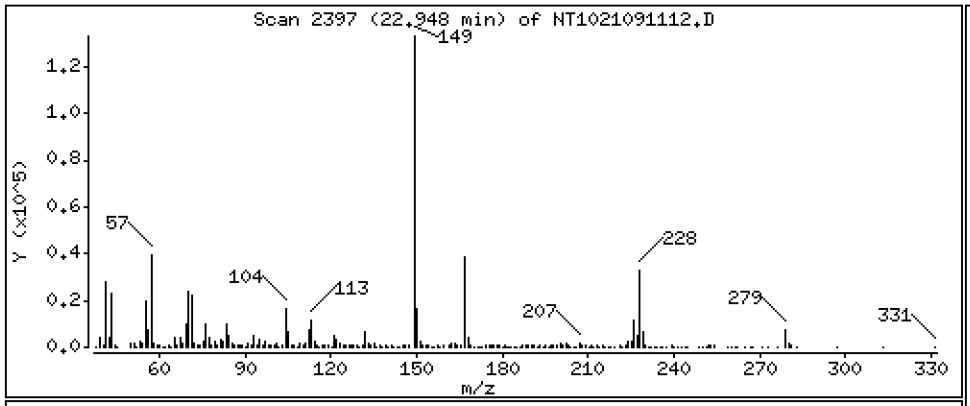
Operator: VTS

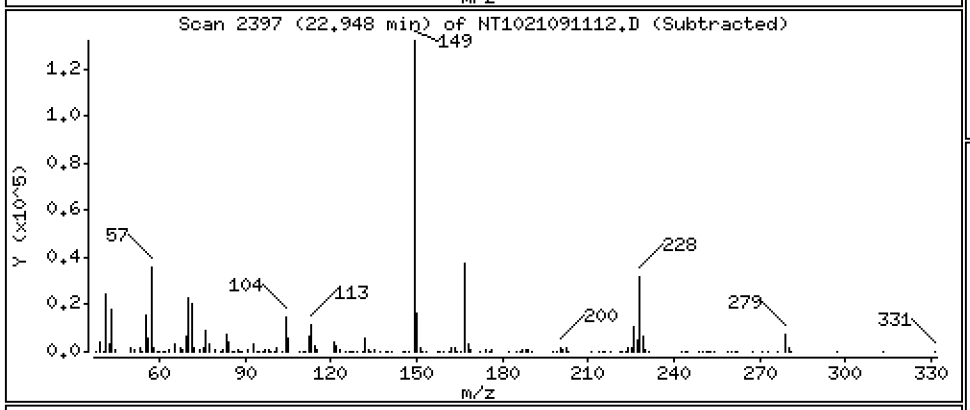
Column phase: ZB-5msi

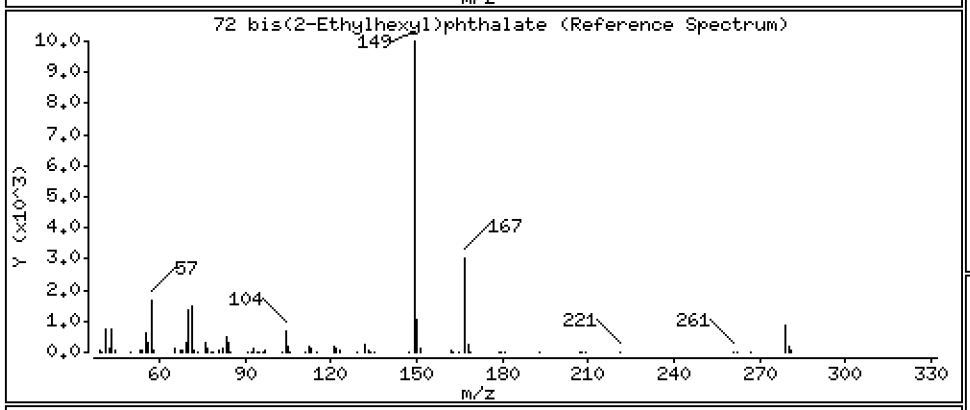
Column diameter: 0.25

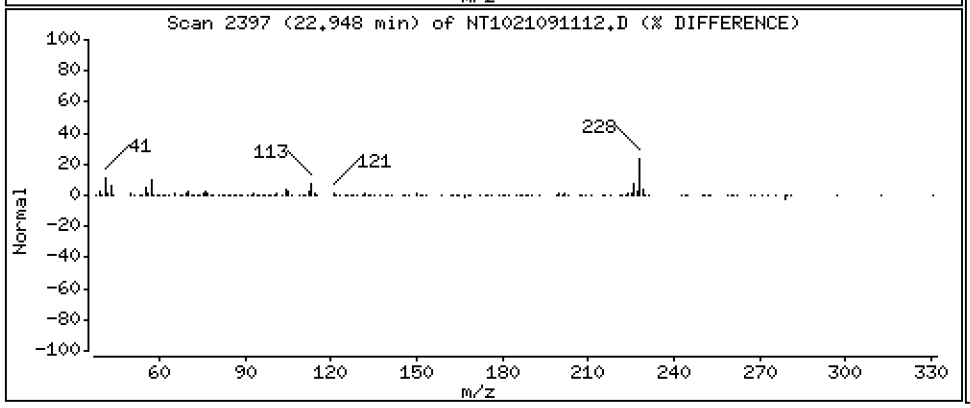
72 bis(2-Ethylhexyl)phthalate

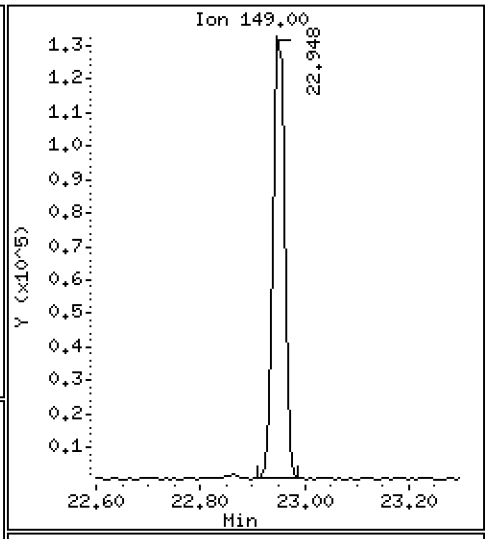
Concentration: 4.779 ug/mL

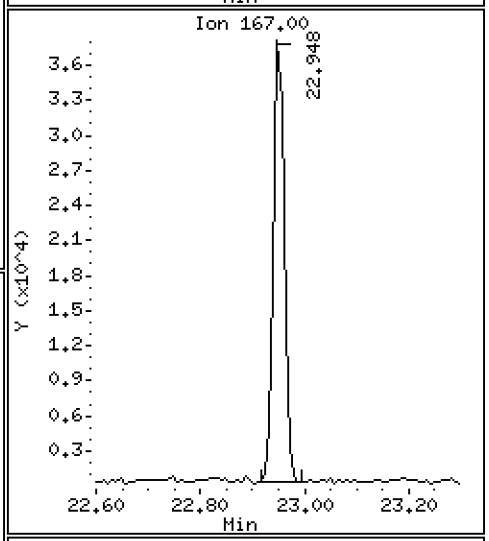


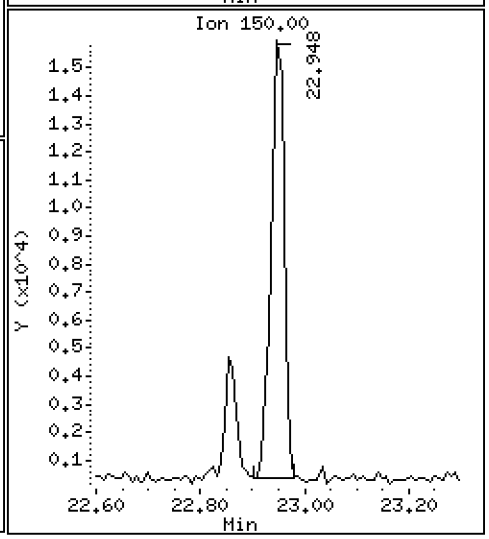












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

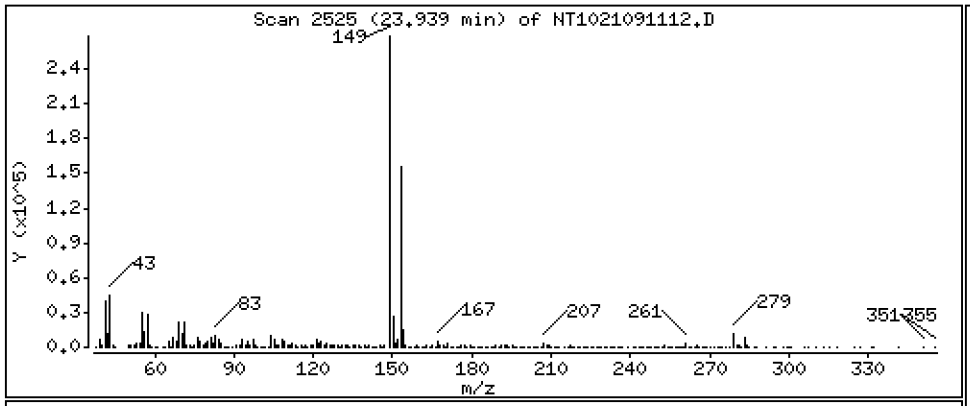
Operator: VTS

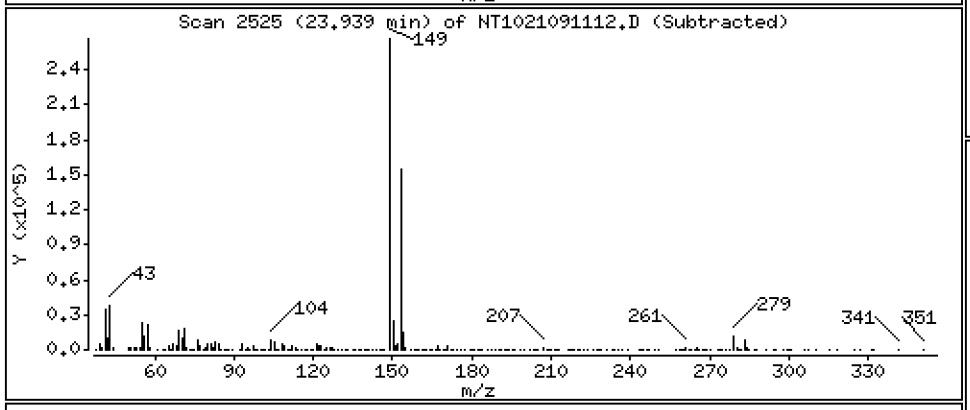
Column phase: ZB-5msi

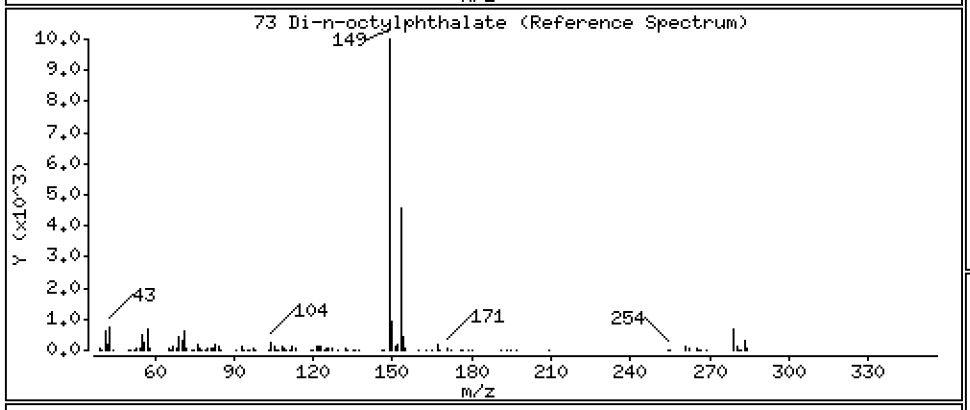
Column diameter: 0.25

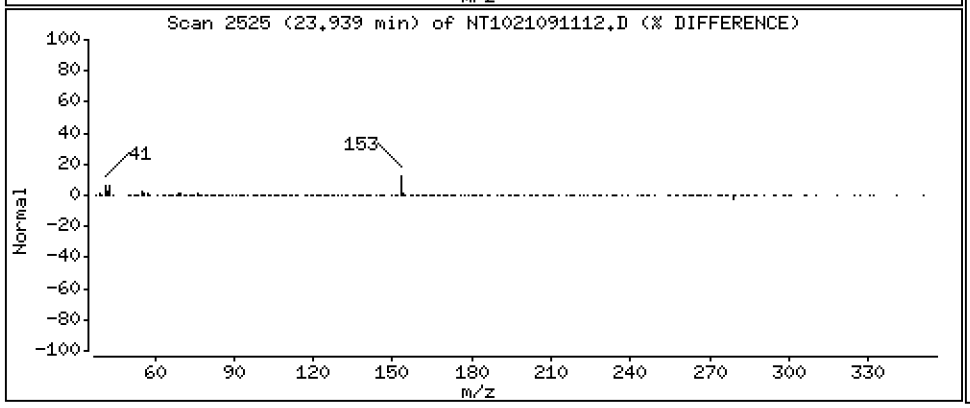
73 Di-n-octylphthalate

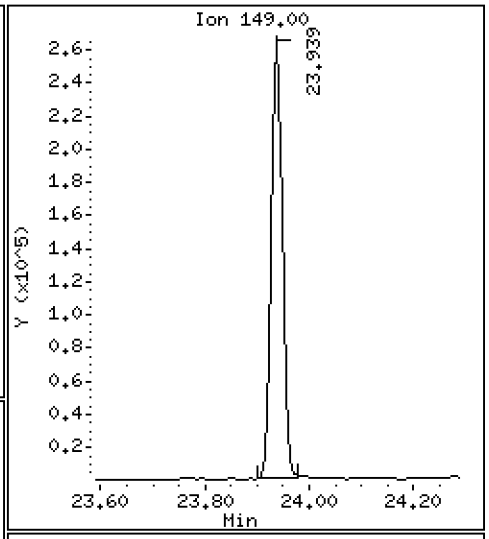
Concentration: 4.023 ug/mL

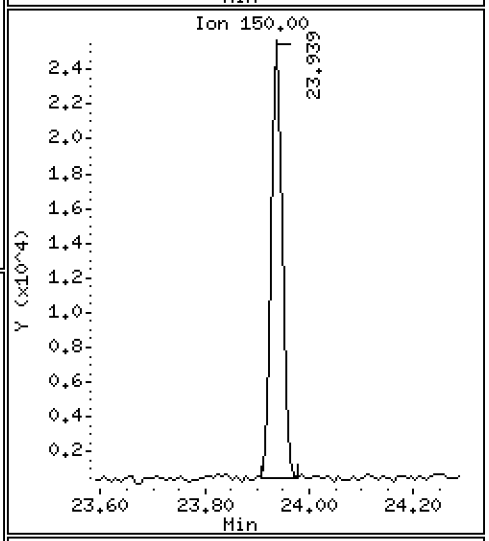


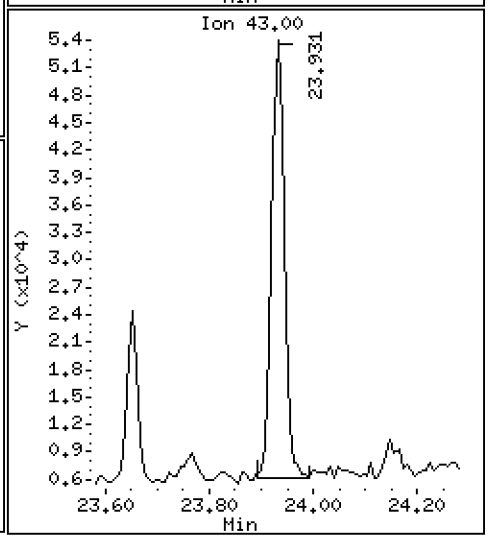












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

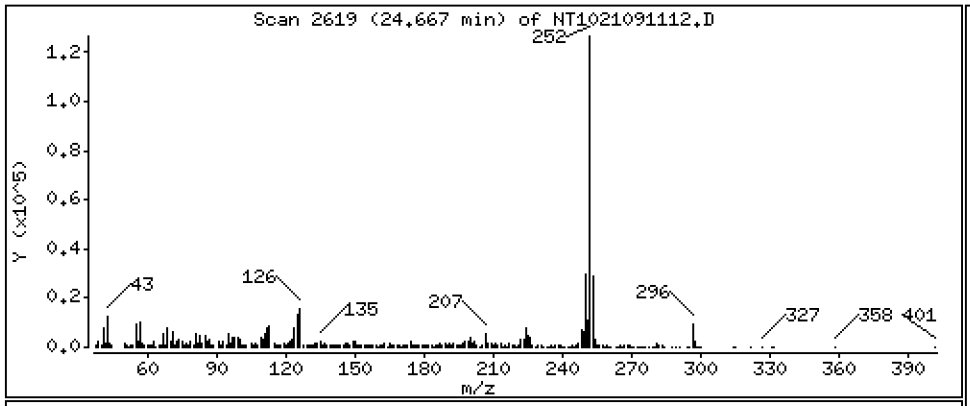
Operator: VTS

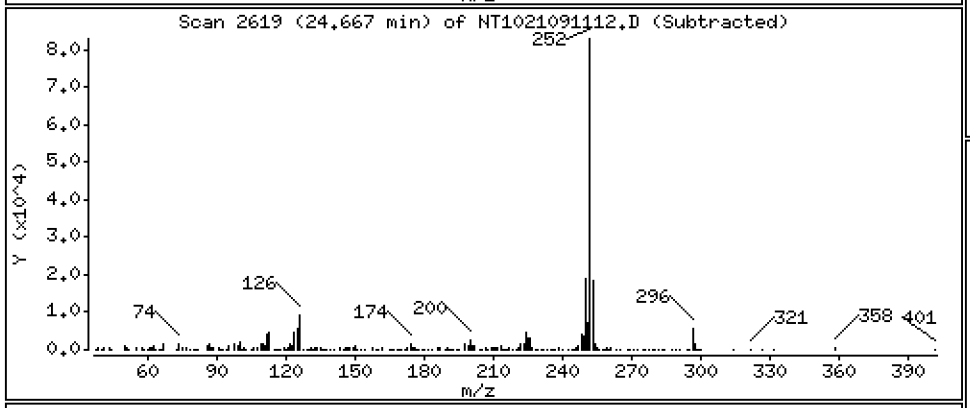
Column phase: ZB-5msi

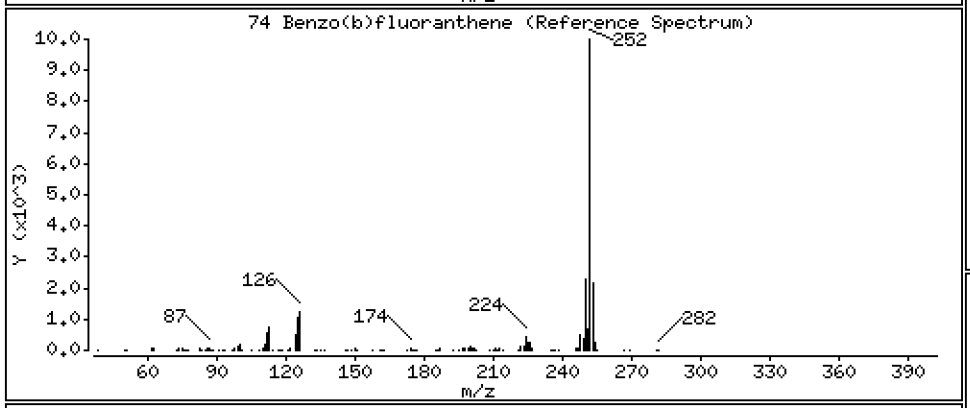
Column diameter: 0.25

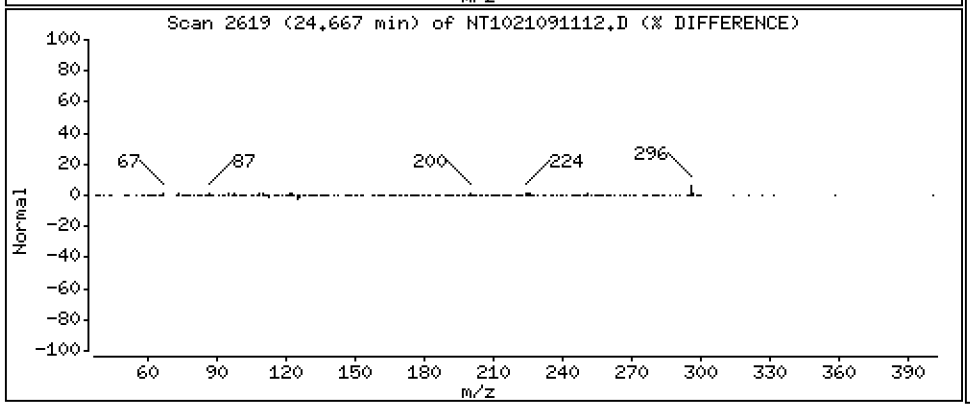
74 Benzo(b)fluoranthene

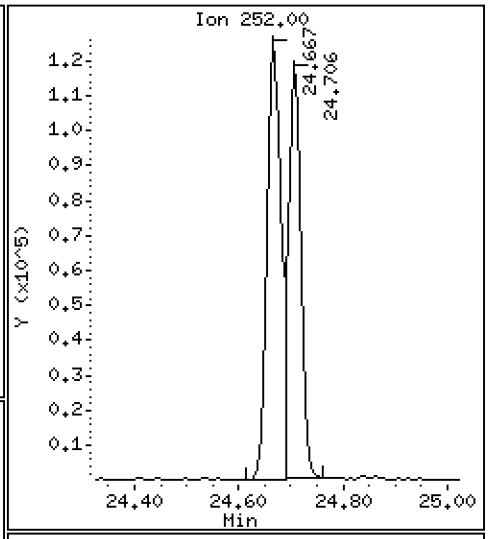
Concentration: 3.970 ug/mL

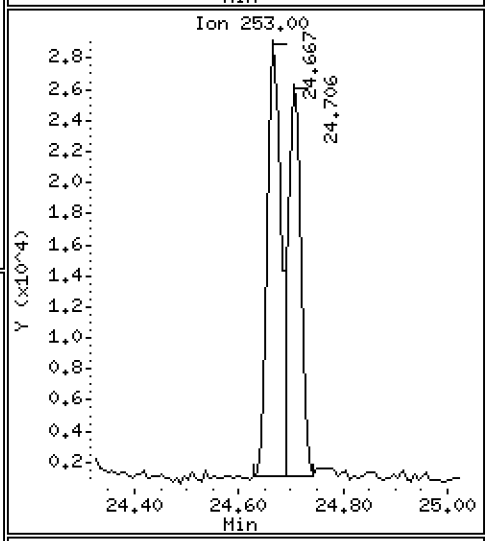


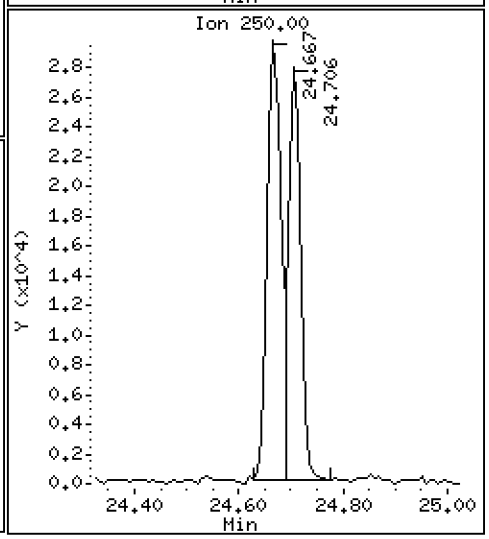












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

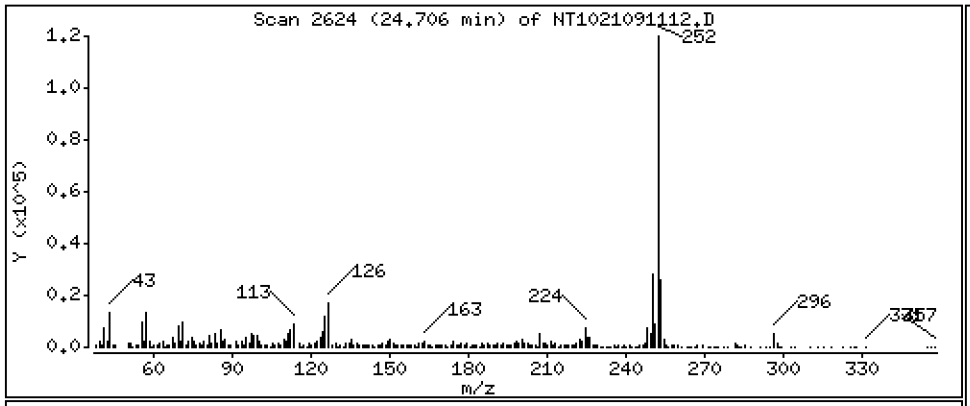
Operator: VTS

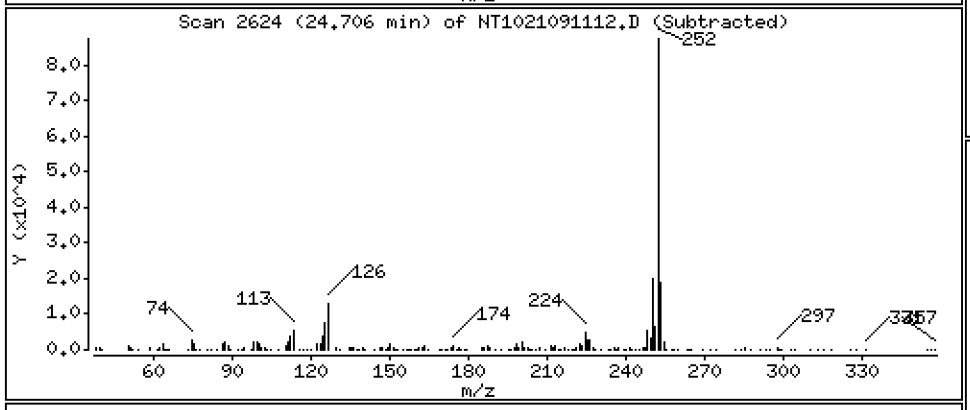
Column phase: ZB-5msi

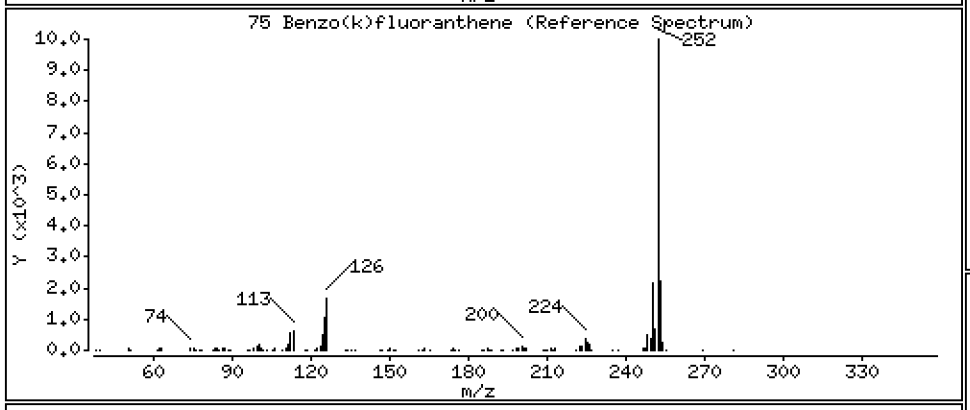
Column diameter: 0.25

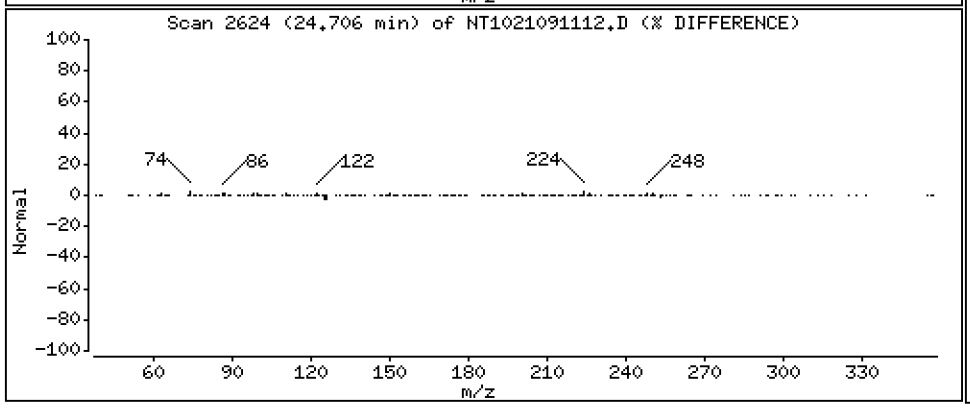
75 Benzo(k)fluoranthene

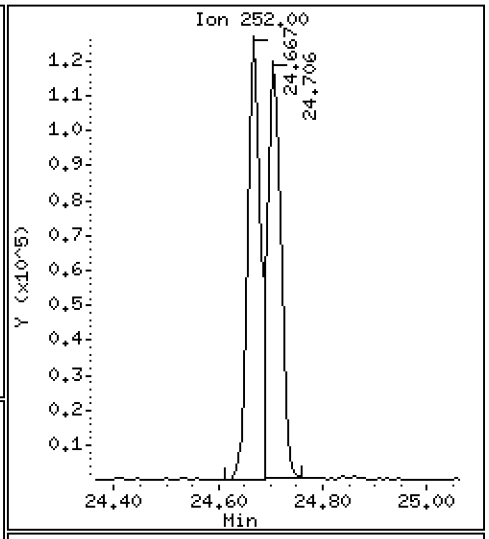
Concentration: 3.658 ug/mL

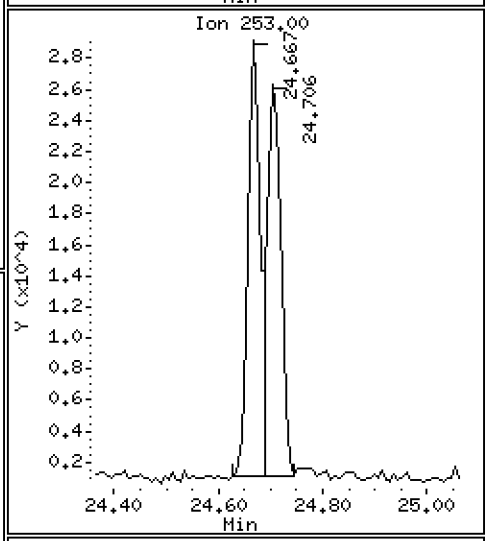


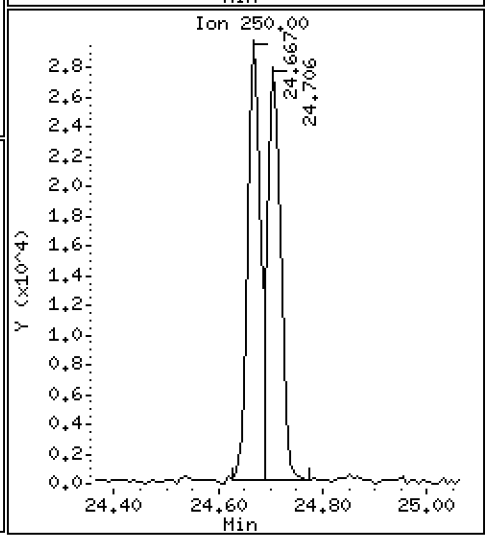












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

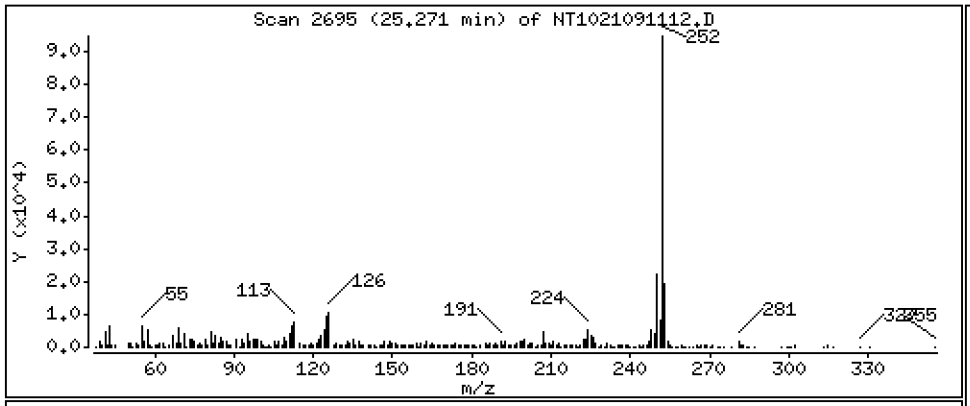
Operator: VTS

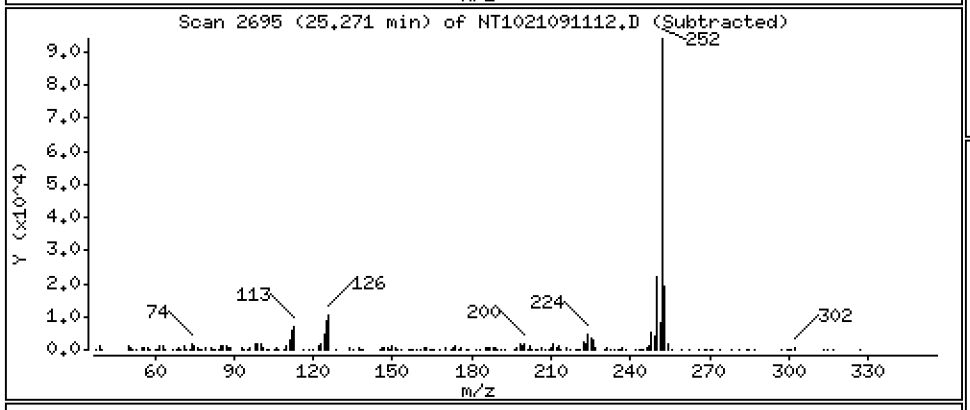
Column phase: ZB-5msi

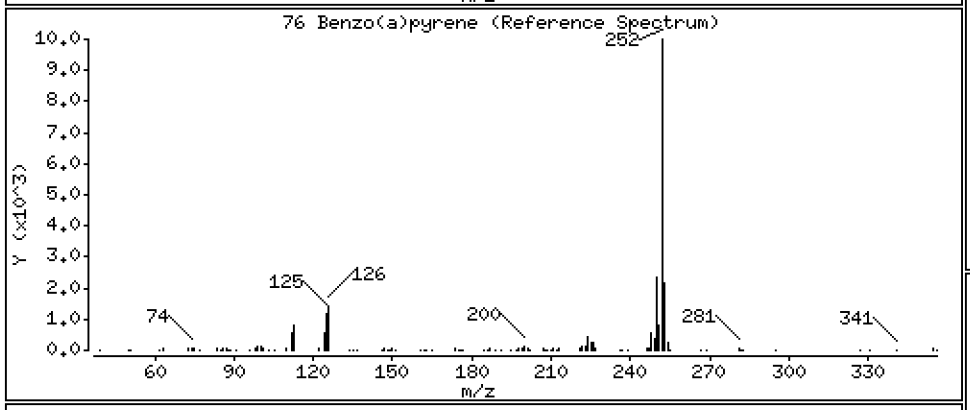
Column diameter: 0.25

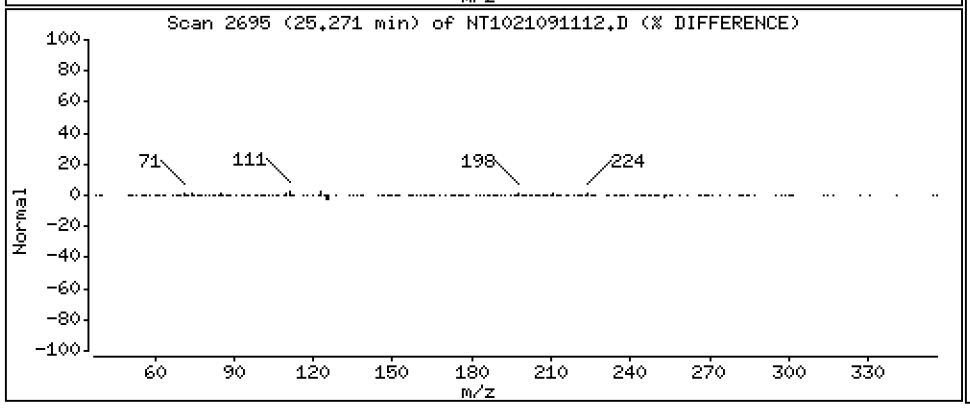
76 Benzo(a)pyrene

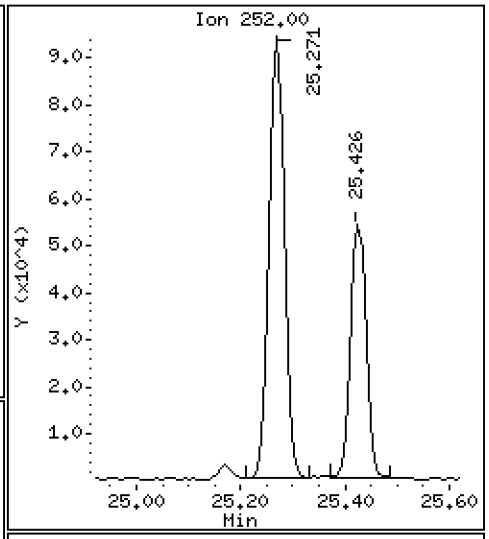
Concentration: 3.586 ug/mL

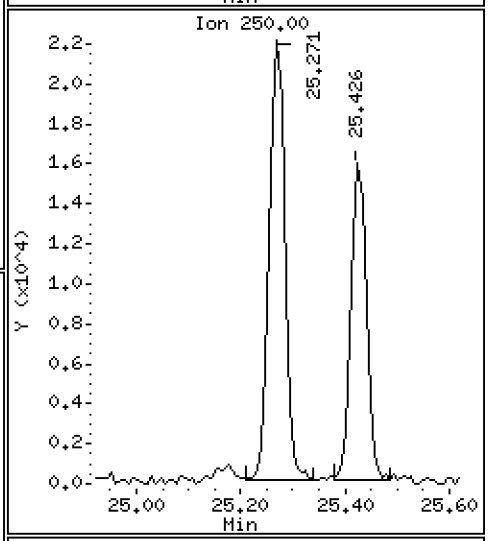


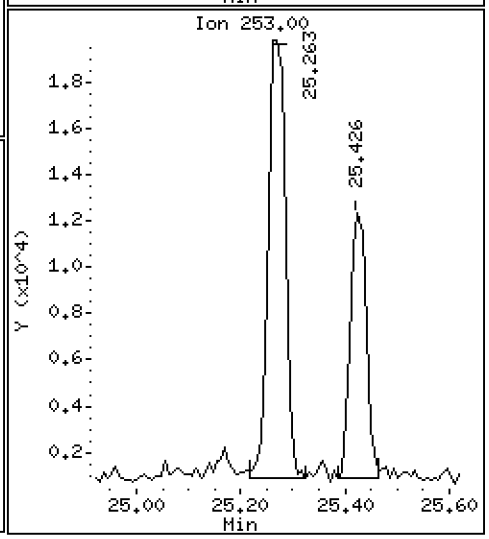












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

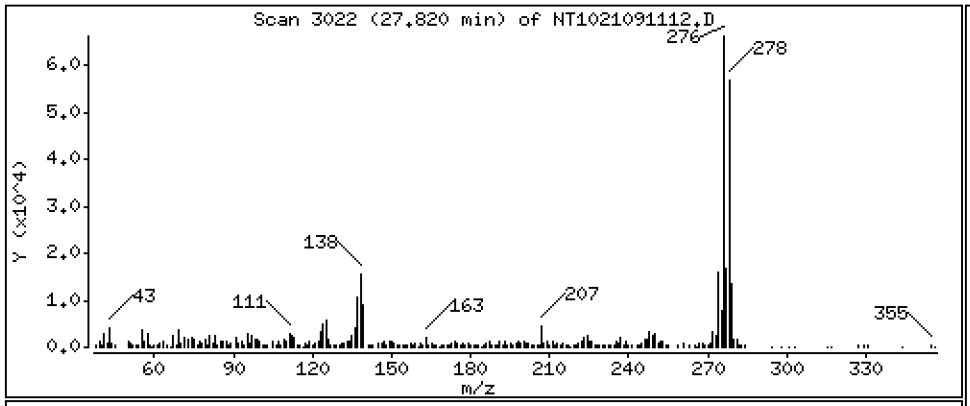
Operator: VTS

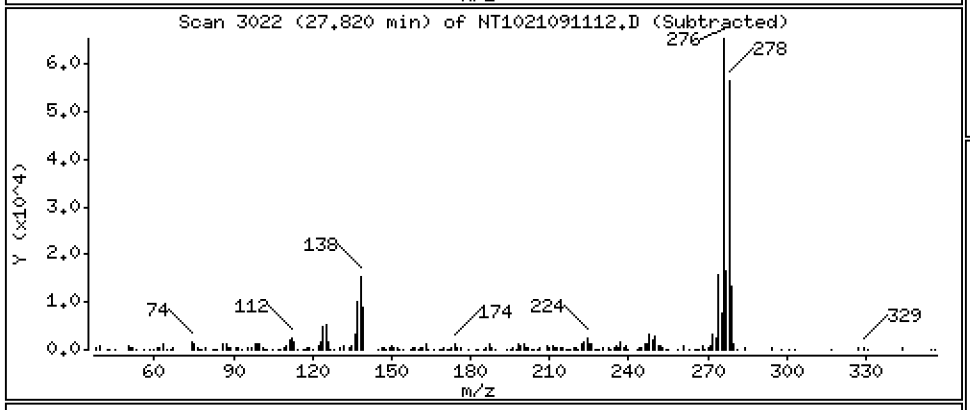
Column phase: ZB-5msi

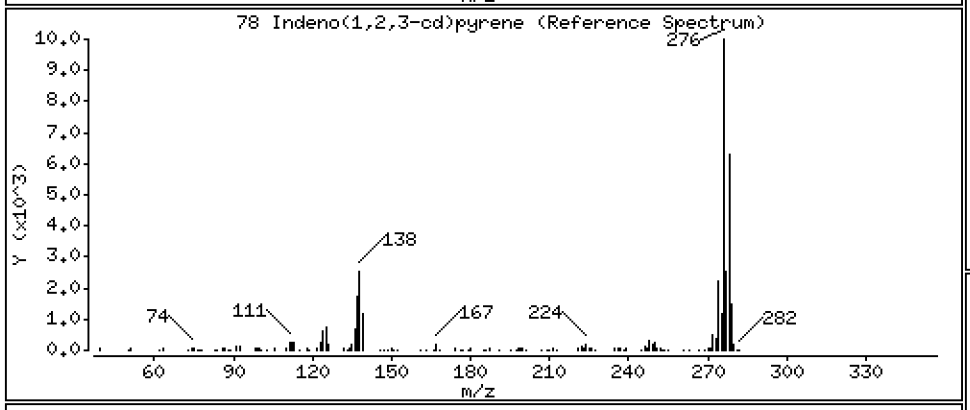
Column diameter: 0.25

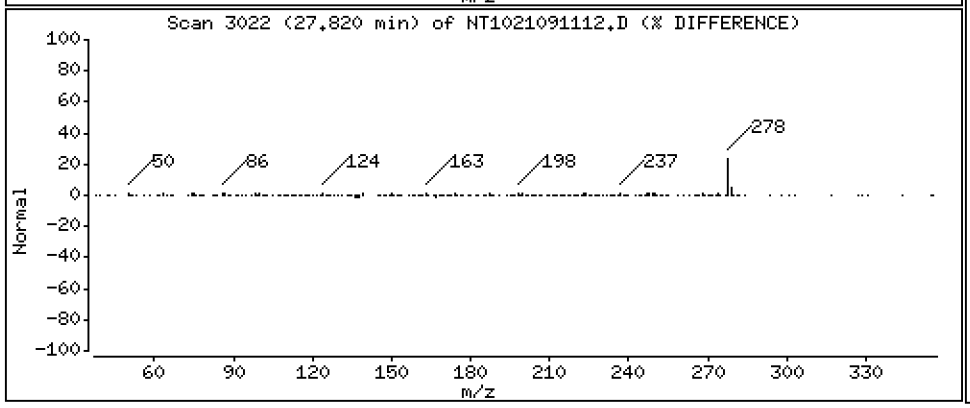
78 Indeno(1,2,3-cd)pyrene

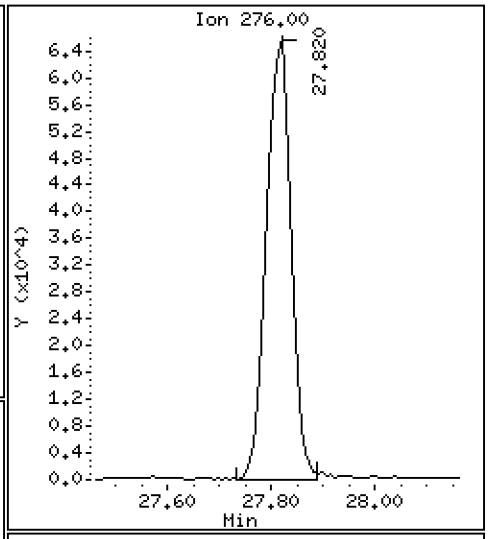
Concentration: 3.999 ug/mL

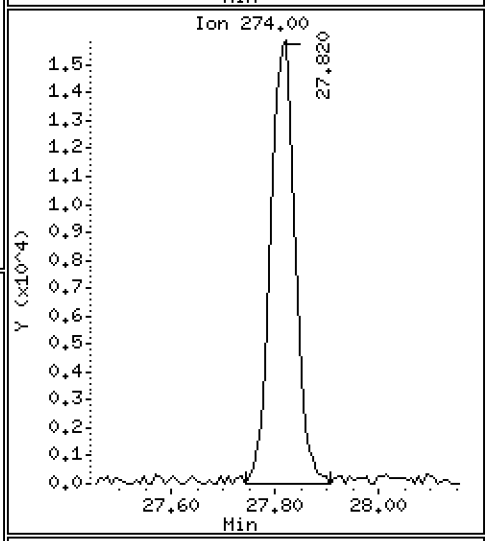


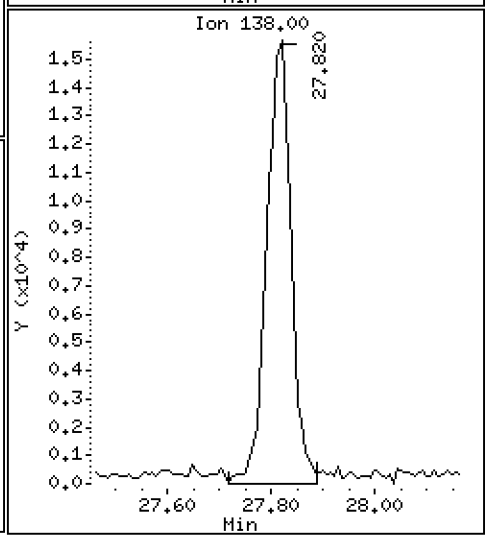












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

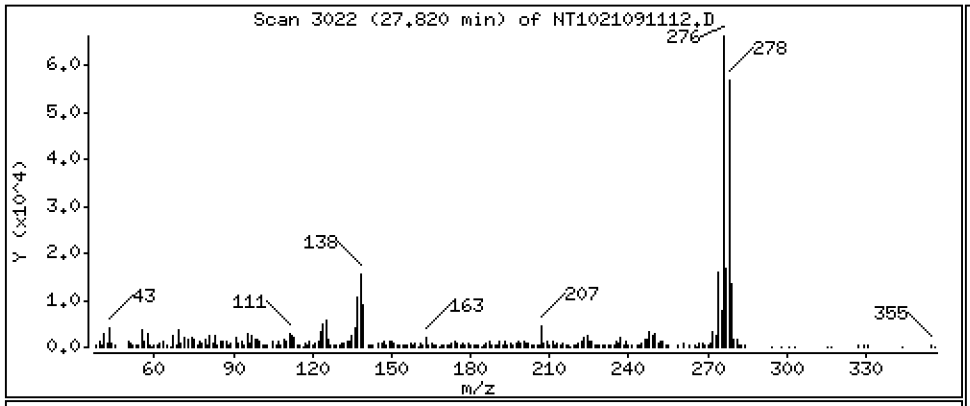
Operator: VTS

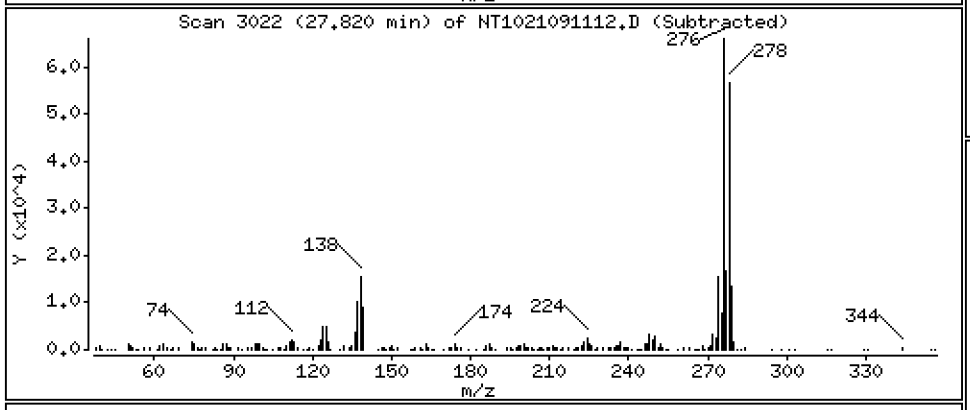
Column phase: ZB-5msi

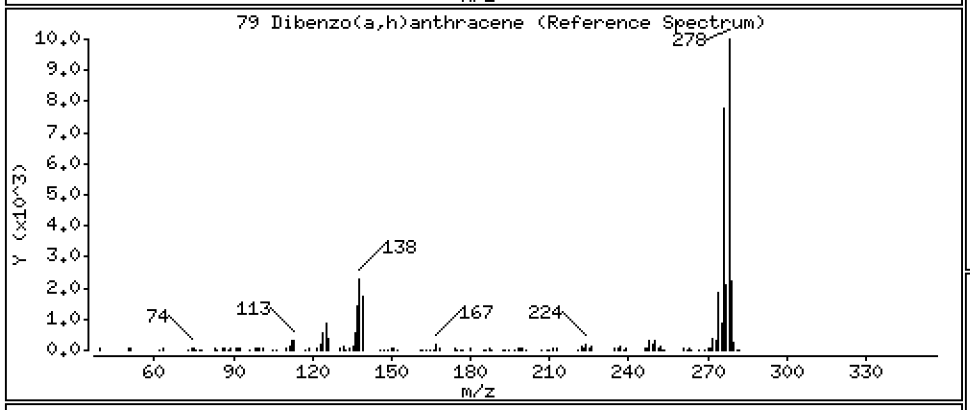
Column diameter: 0.25

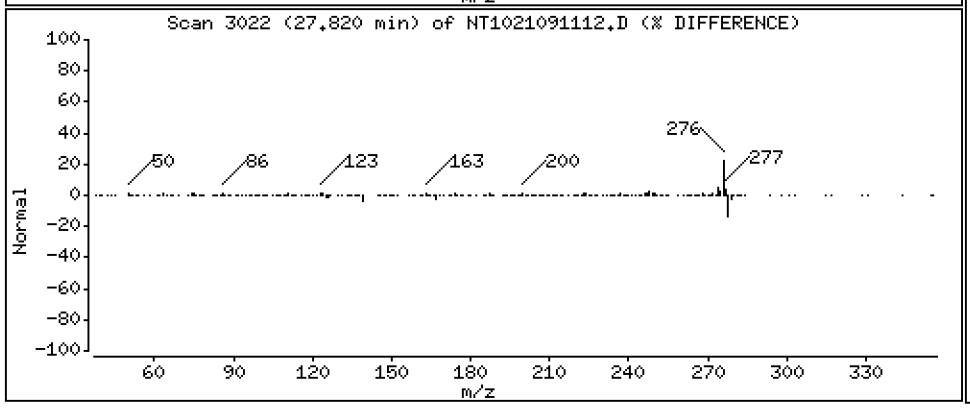
79 Dibenzo(a,h)anthracene

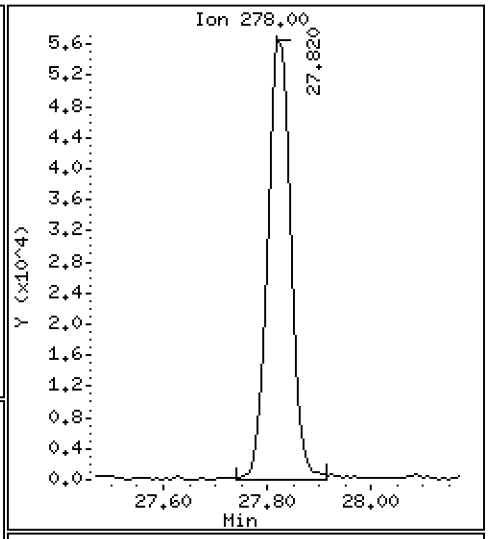
Concentration: 4.185 ug/mL

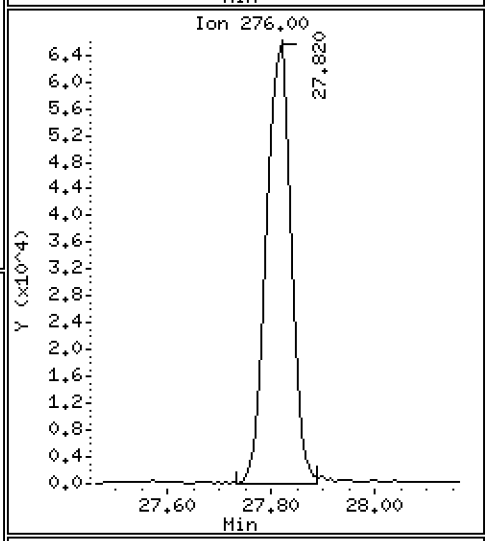


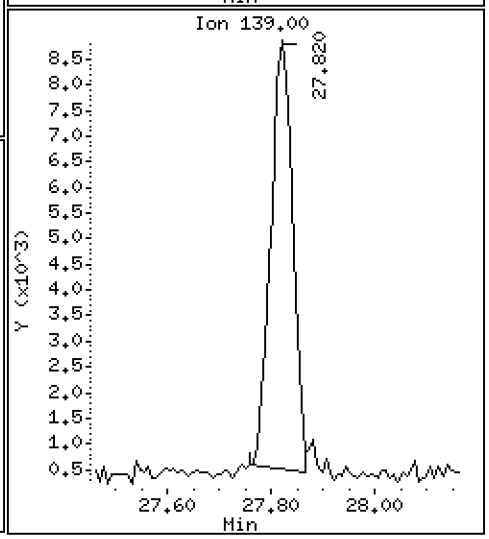












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091112.D

Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

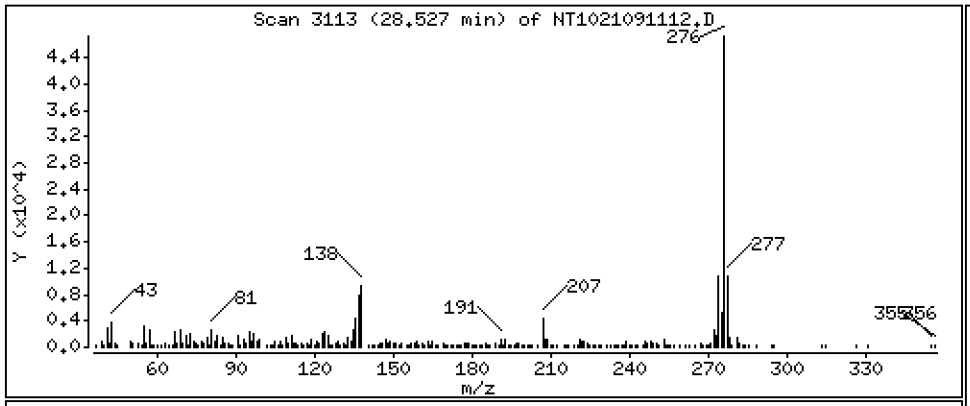
Operator: VTS

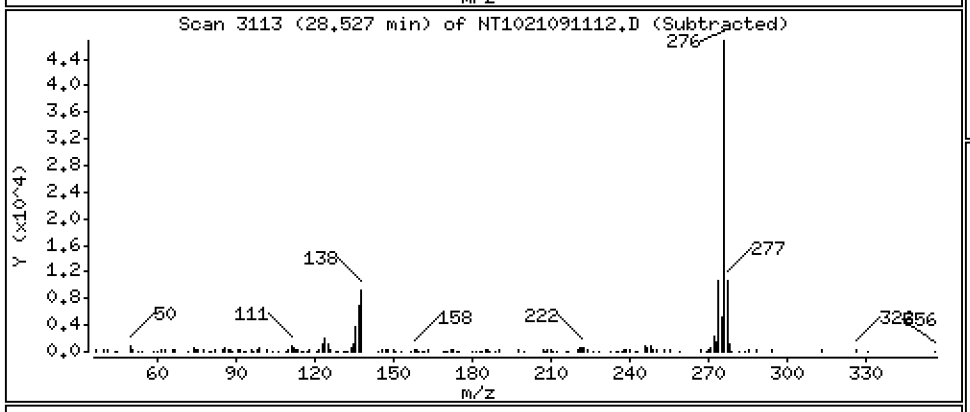
Column phase: ZB-5msi

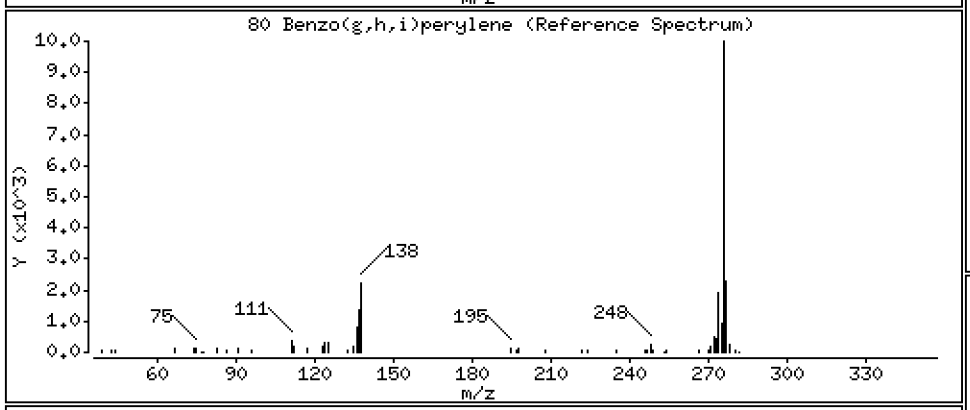
Column diameter: 0.25

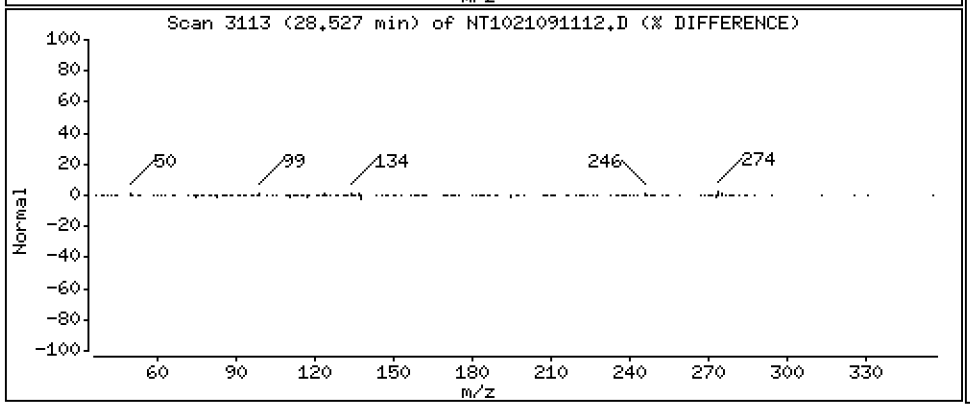
80 Benzo(g,h,i)perylene

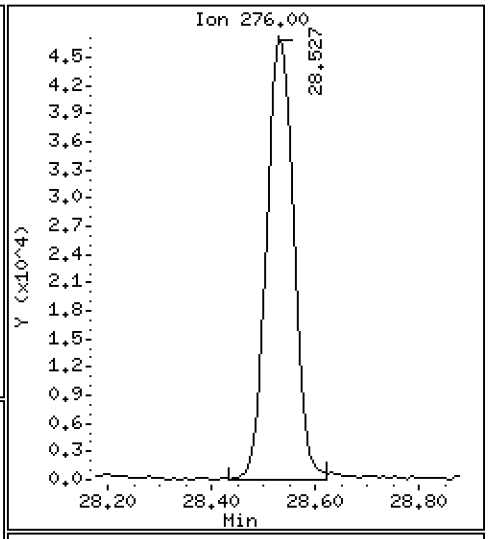
Concentration: 3.628 ug/mL

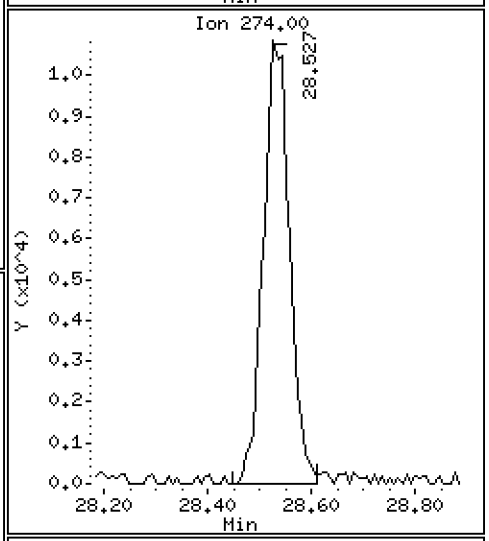


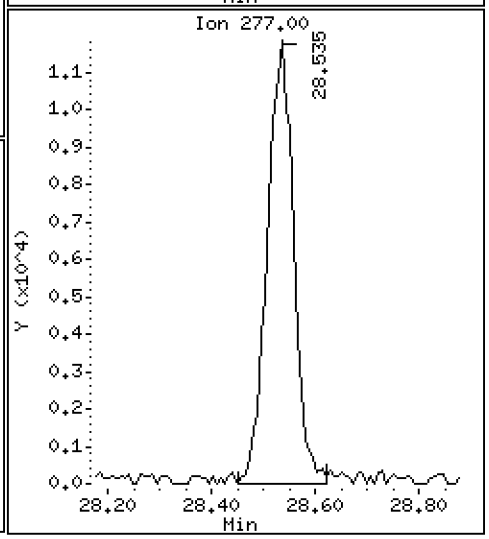












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

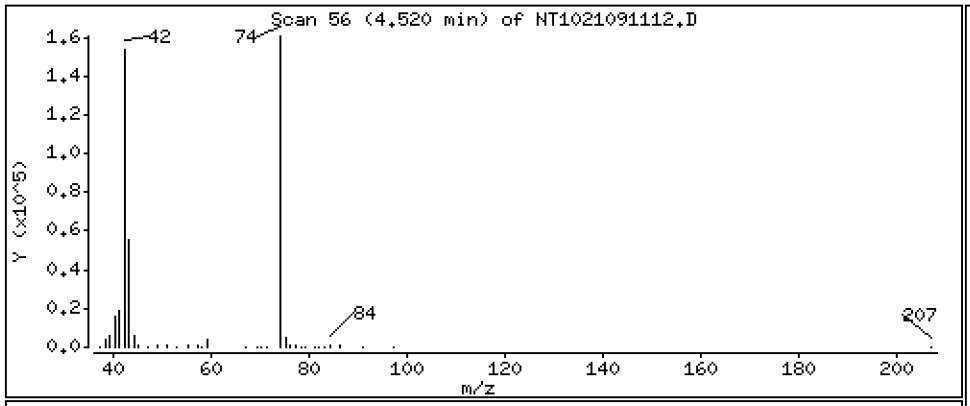
Operator: VTS

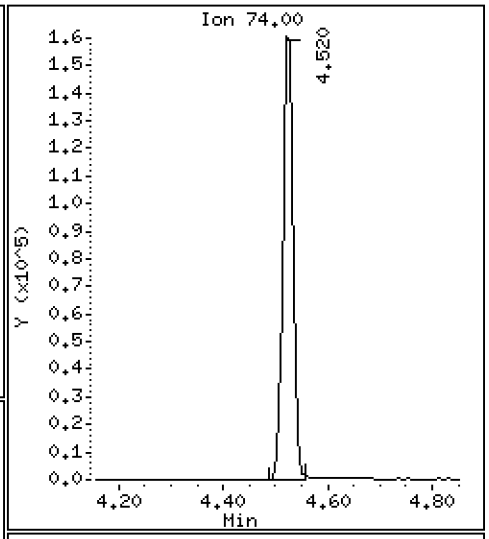
Column phase: ZB-5msi

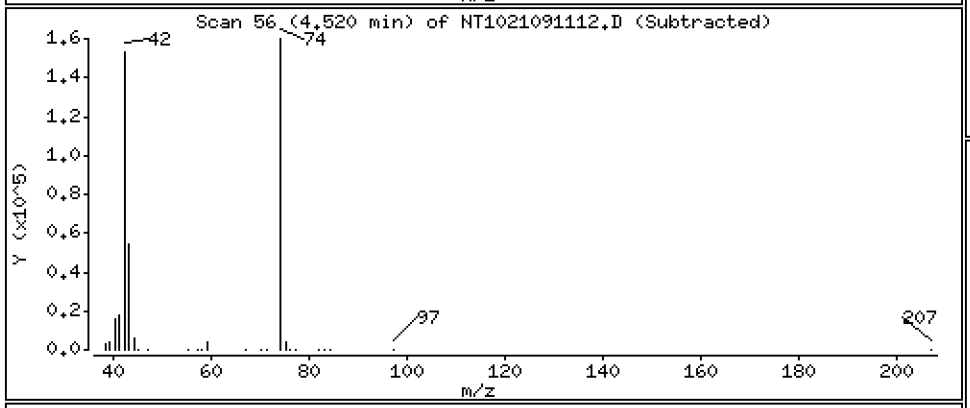
Column diameter: 0.25

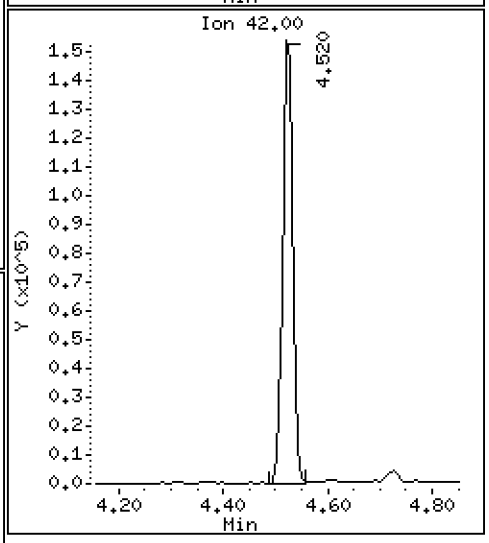
90 N-Nitrosodimethylamine

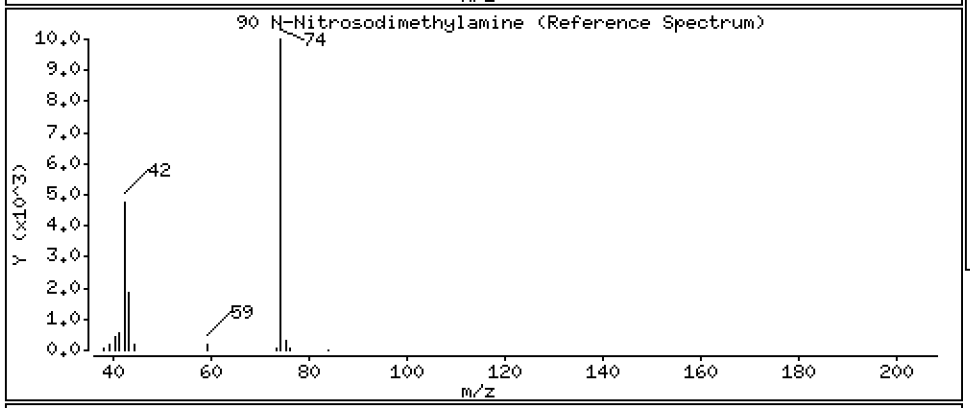
Concentration: 7.507 ug/mL

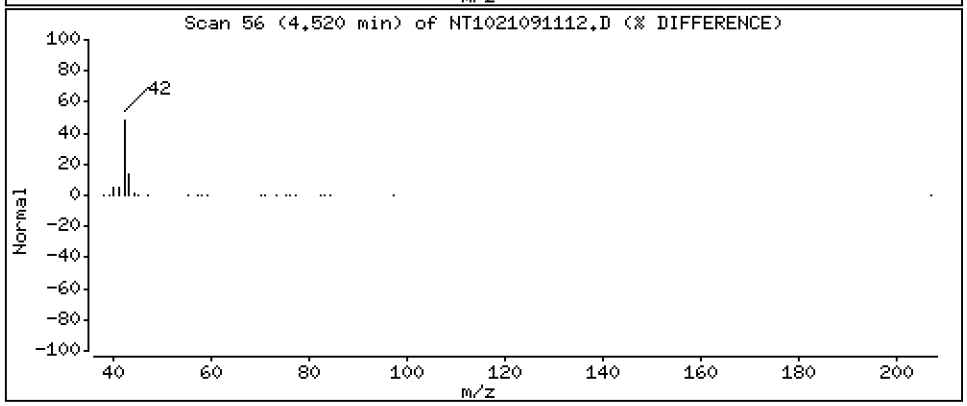












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

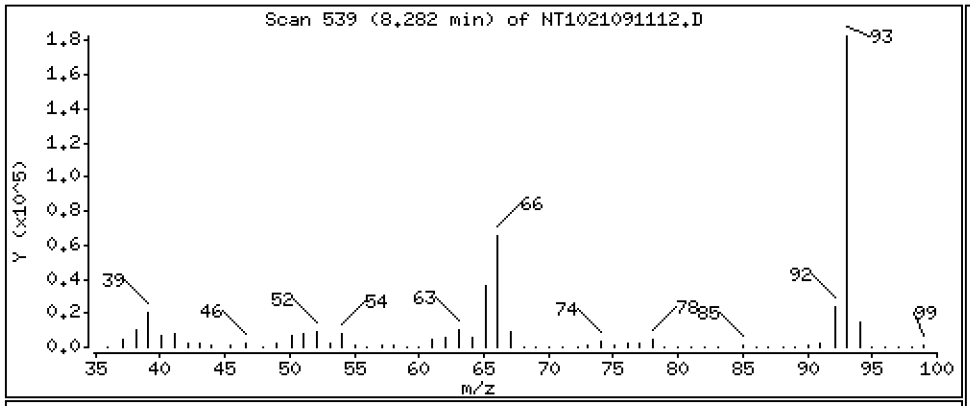
Operator: VTS

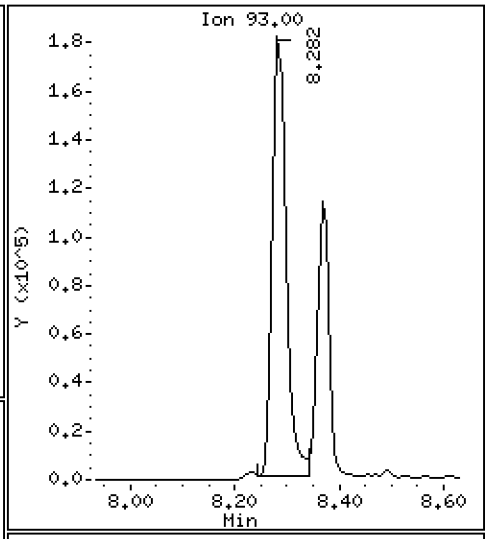
Column phase: ZB-5msi

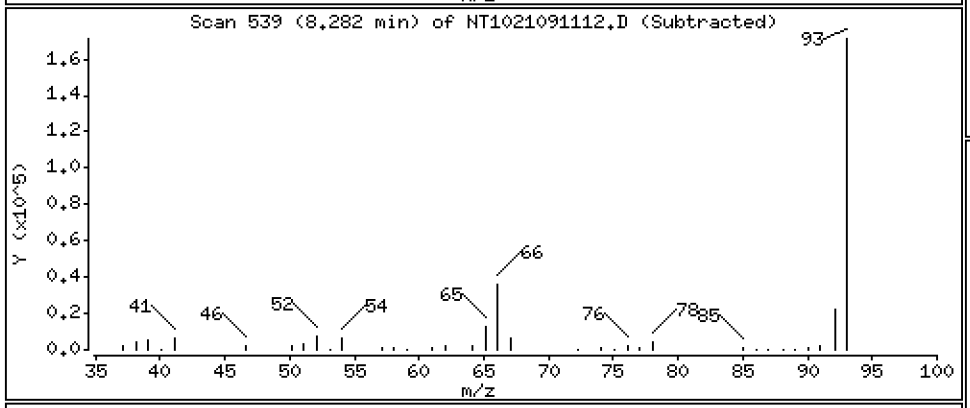
Column diameter: 0.25

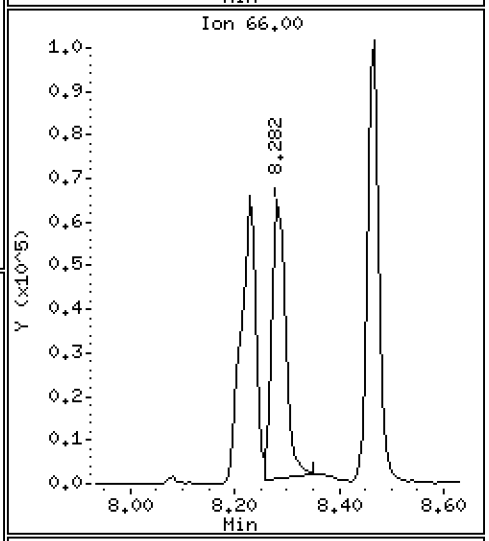
91 Aniline

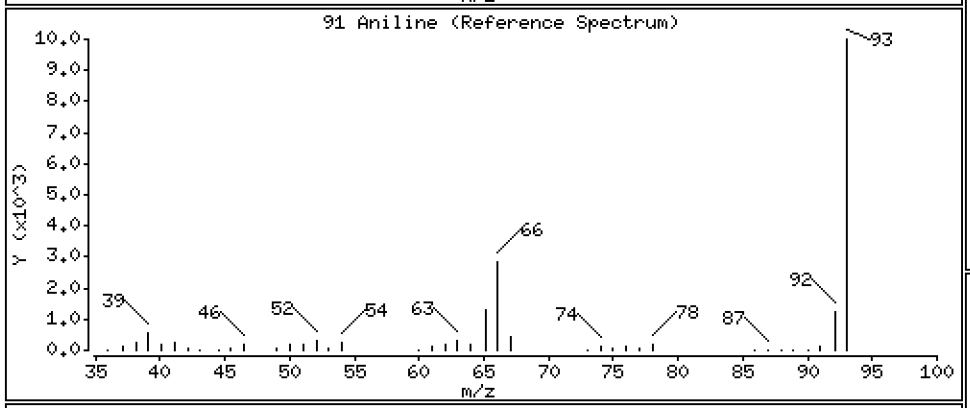
Concentration: 4.687 ug/mL

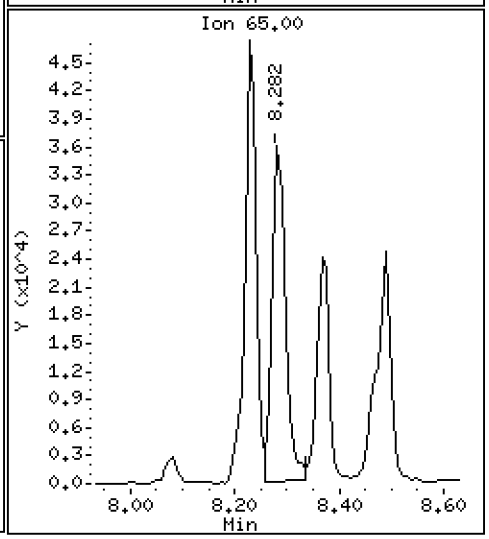


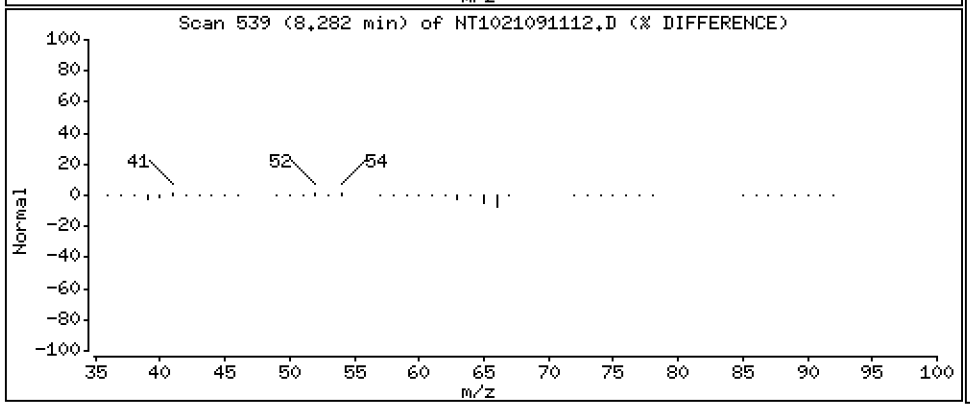












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

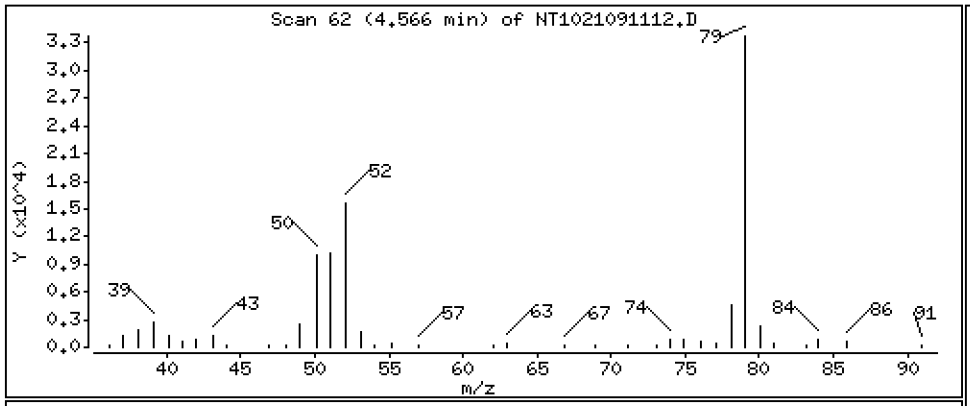
Operator: VTS

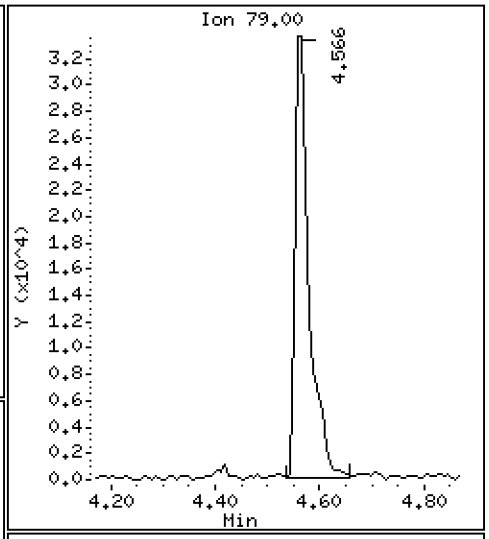
Column phase: ZB-5msi

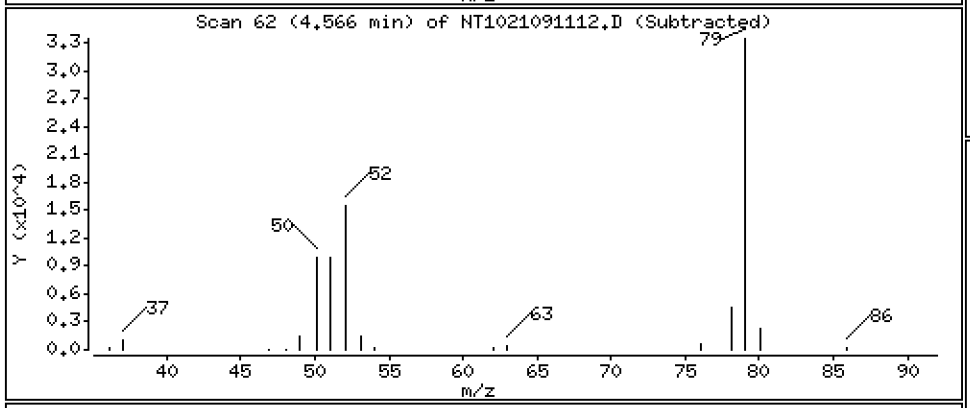
Column diameter: 0.25

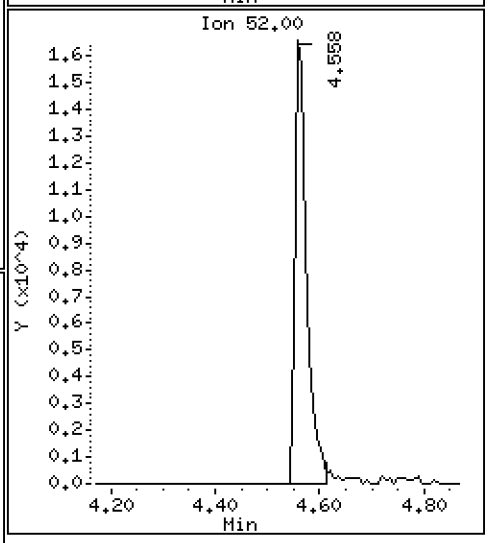
103 Pyridine

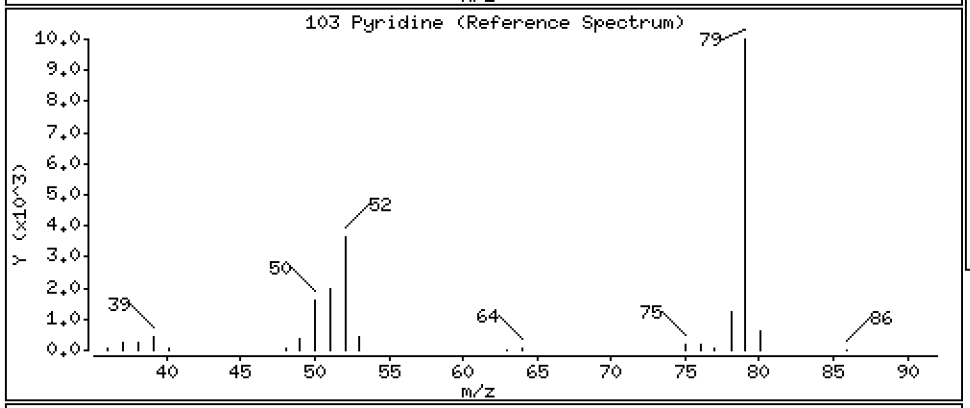
Concentration: 0.6895 ug/mL

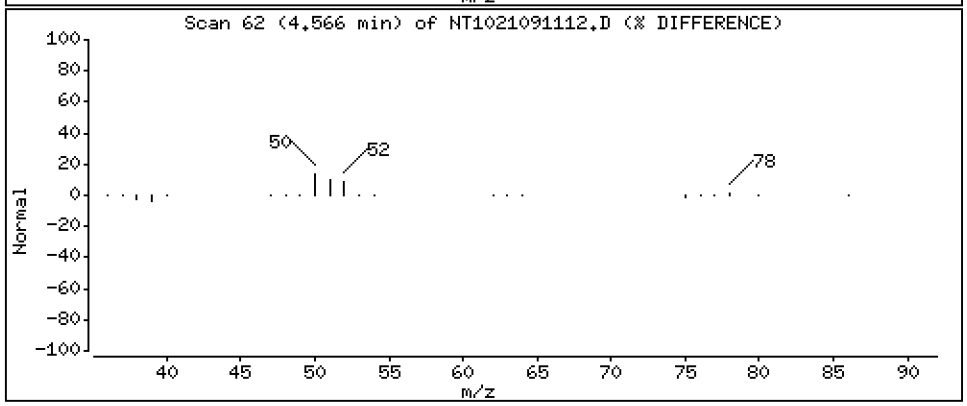












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

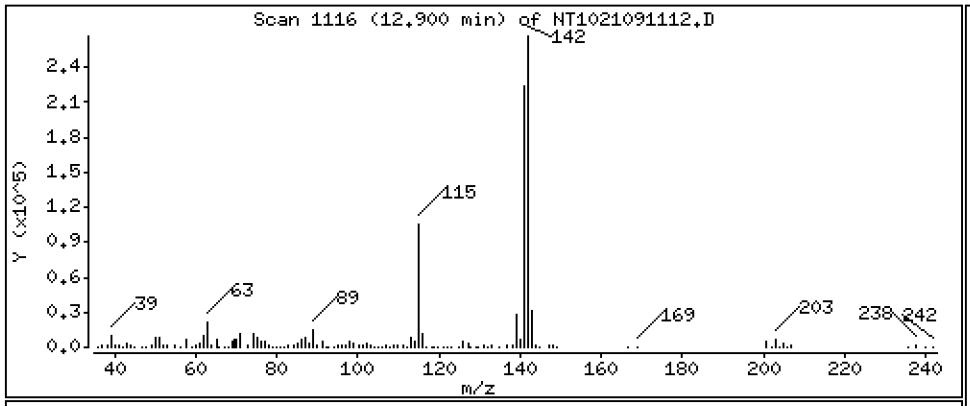
Operator: VTS

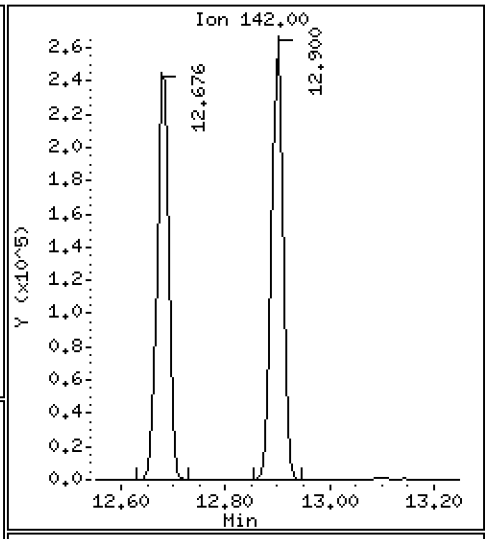
Column phase: ZB-5msi

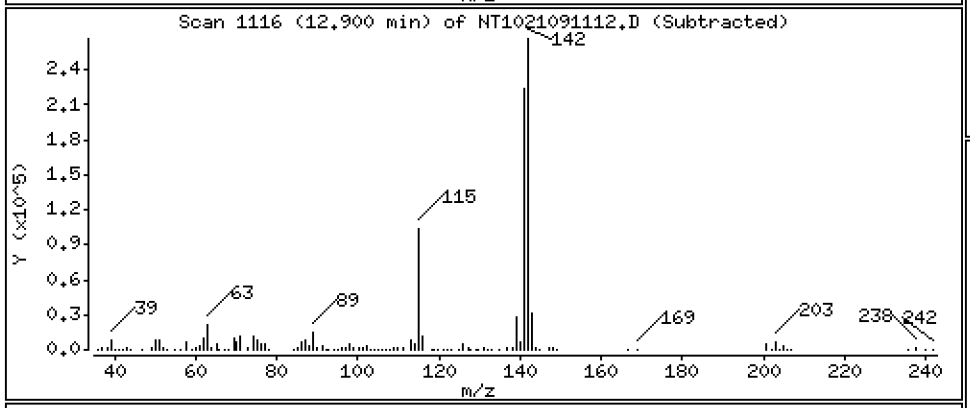
Column diameter: 0.25

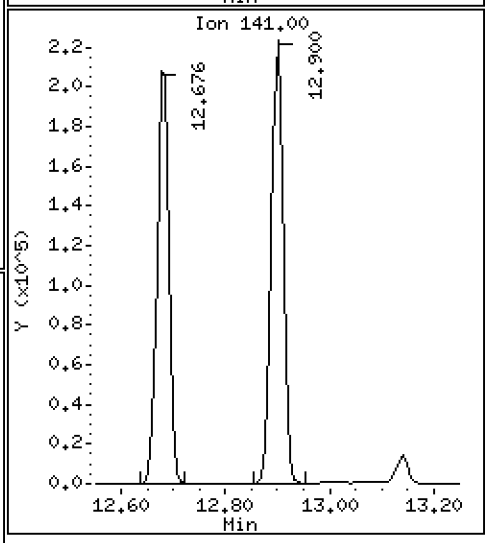
105 1-methylnaphthalene

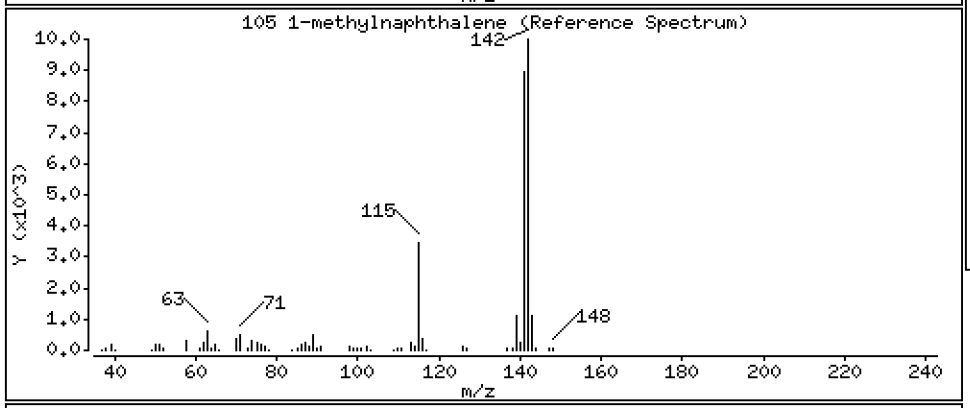
Concentration: 3.655 ug/mL

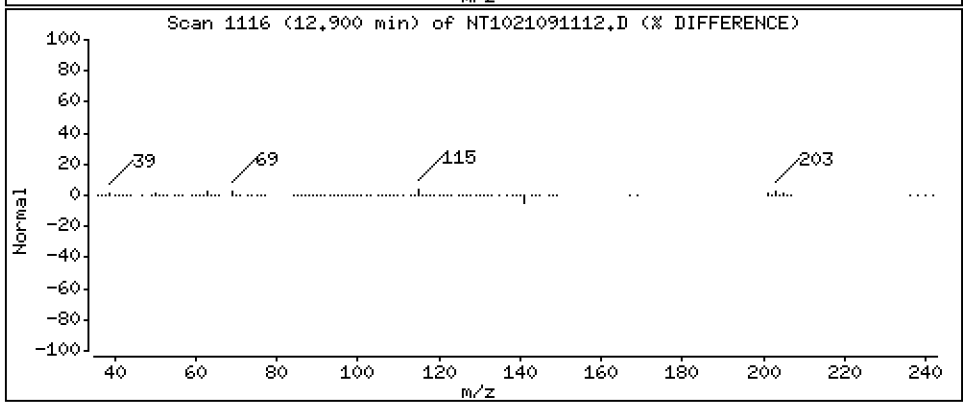












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

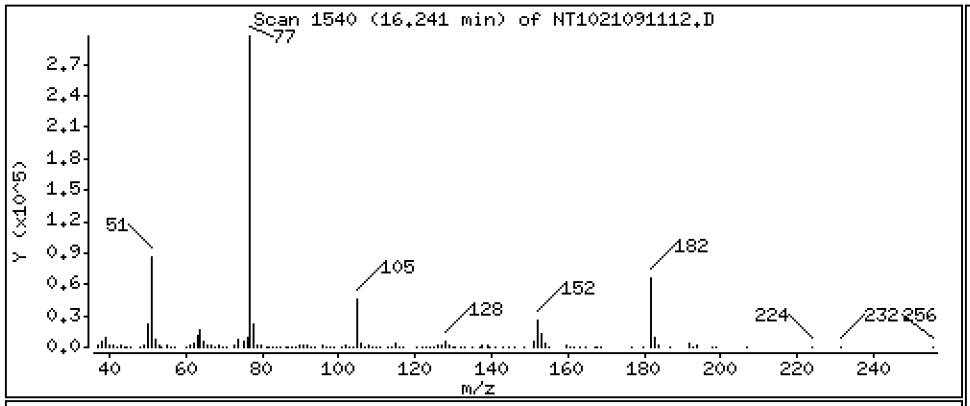
Operator: VTS

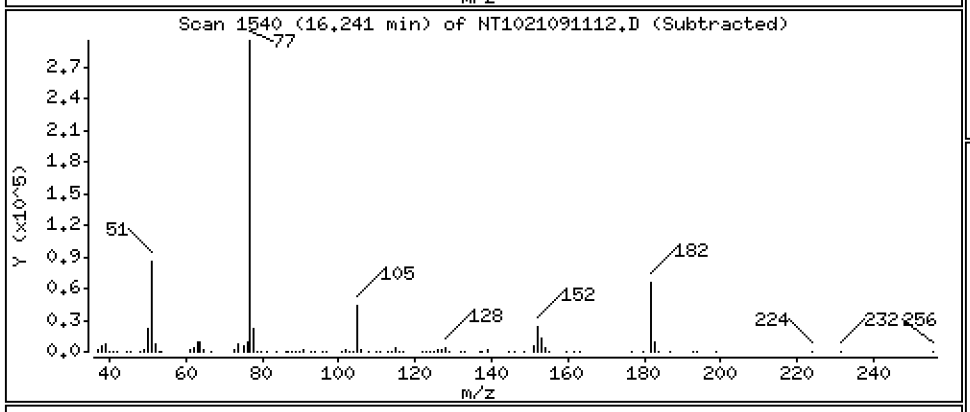
Column phase: ZB-5msi

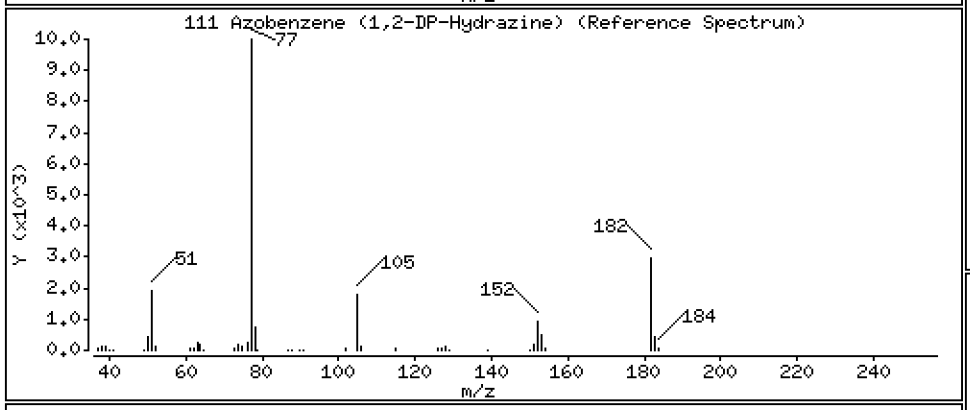
Column diameter: 0.25

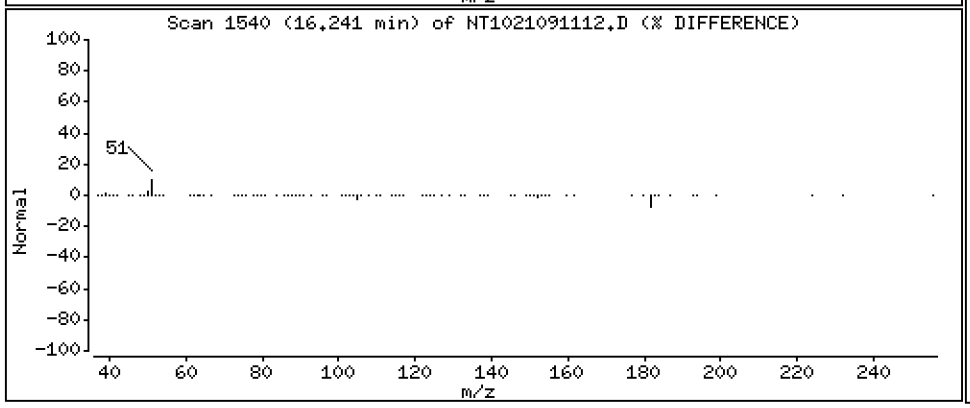
111 Azobenzene (1,2-DP-Hydrazine)

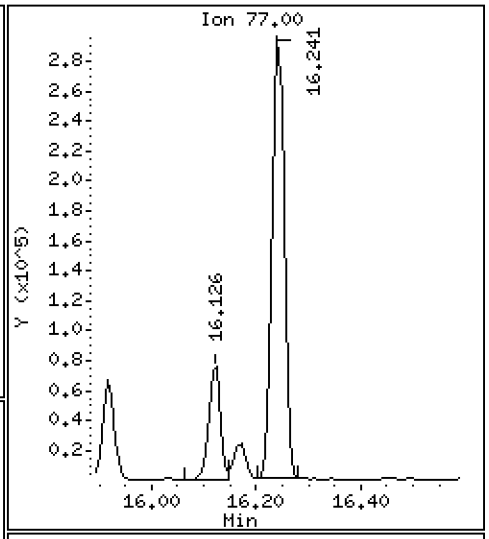
Concentration: 5.009 ug/mL

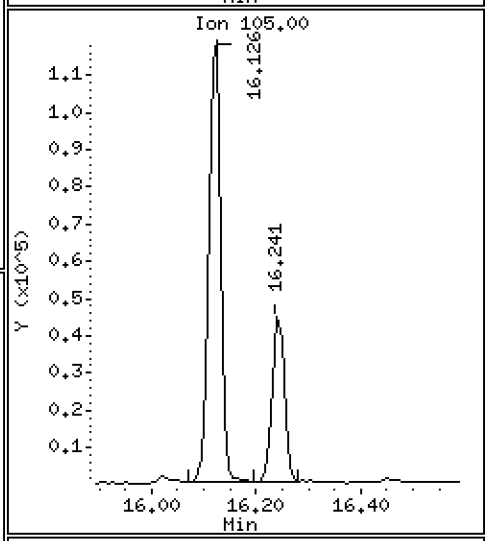


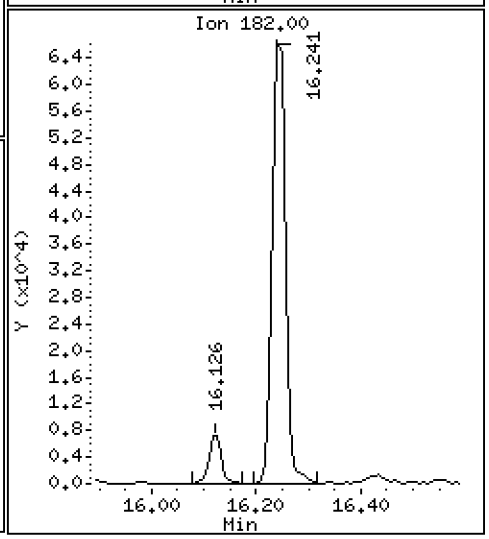












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

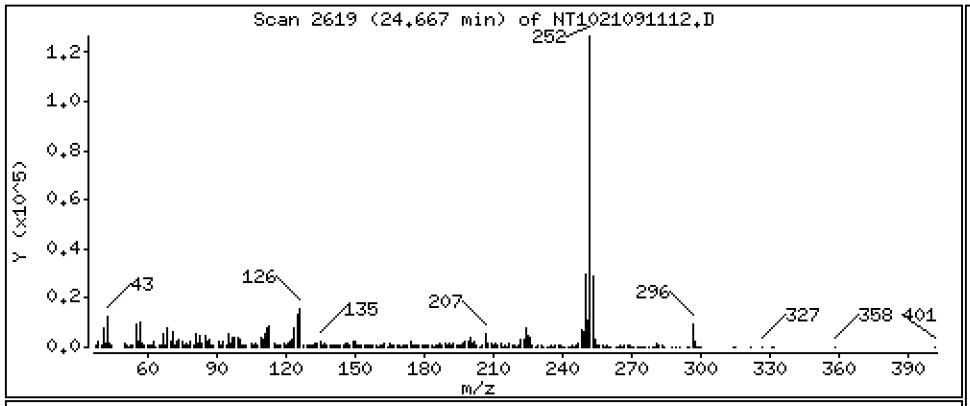
Operator: VTS

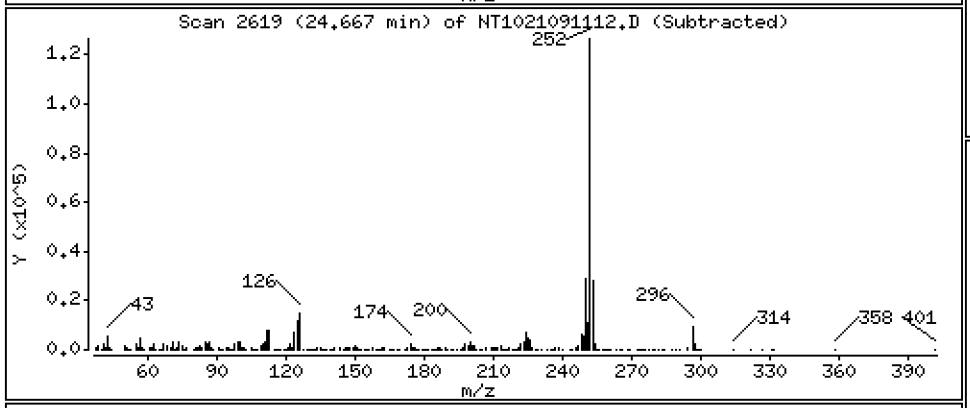
Column phase: ZB-5msi

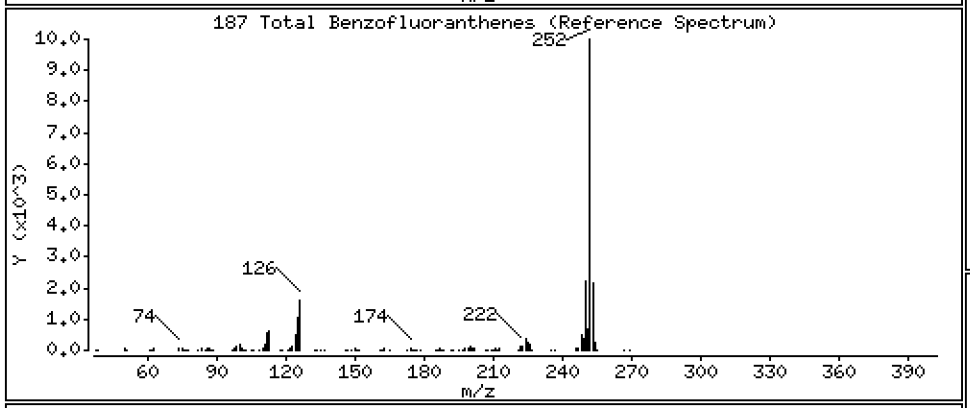
Column diameter: 0.25

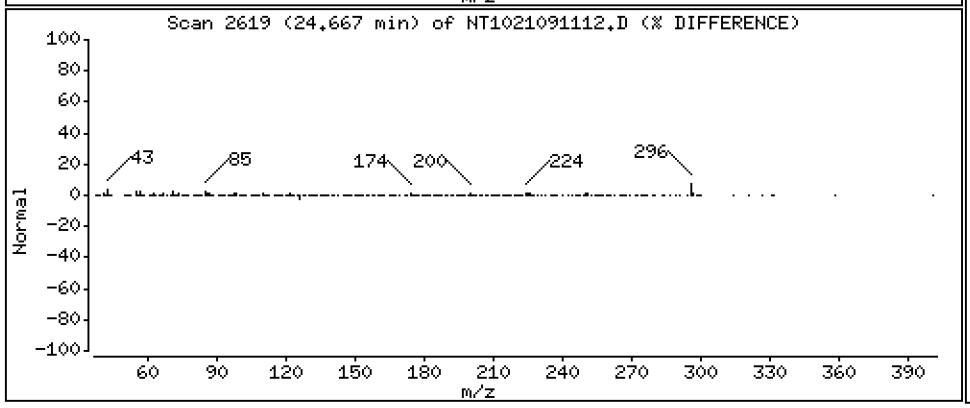
187 Total Benzofluoranthenes

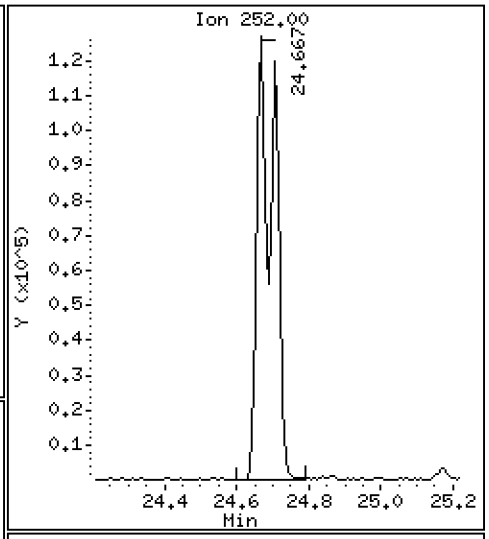
Concentration: 7.524 ug/mL

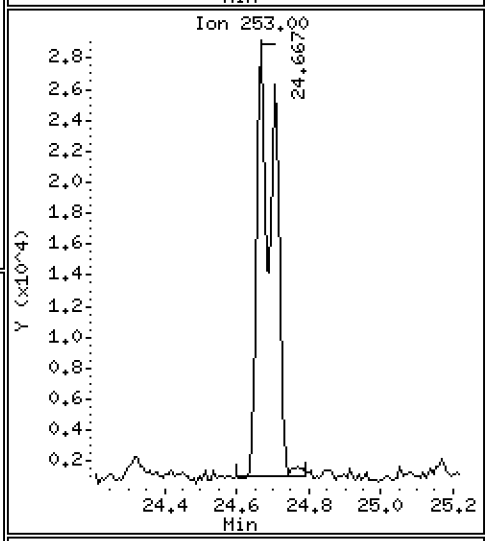


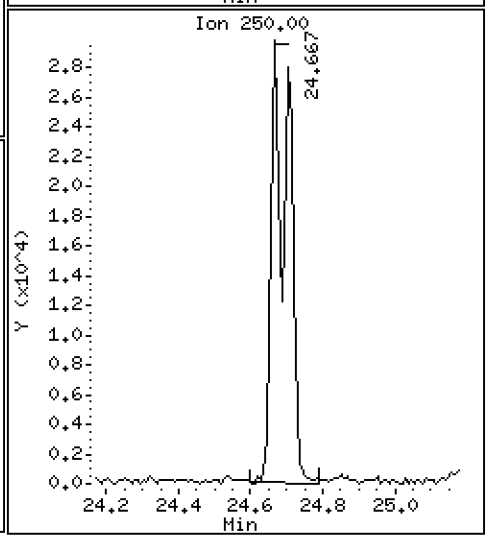












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Date : 11-SEP-2021 17:27

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MS1

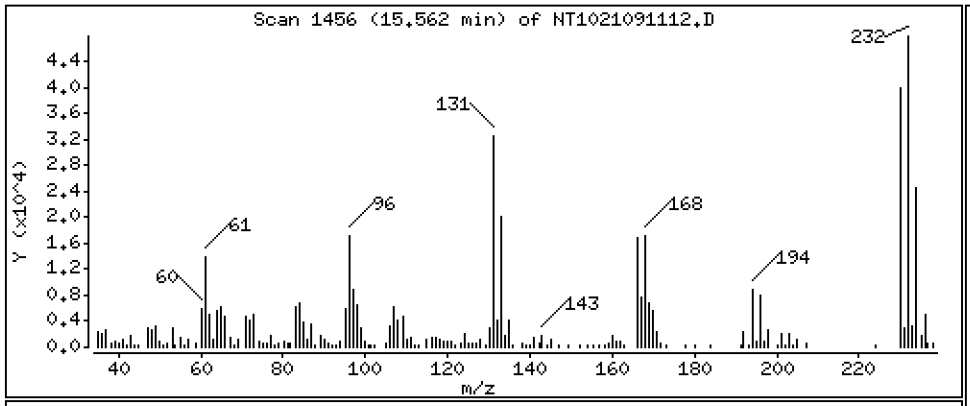
Operator: VTS

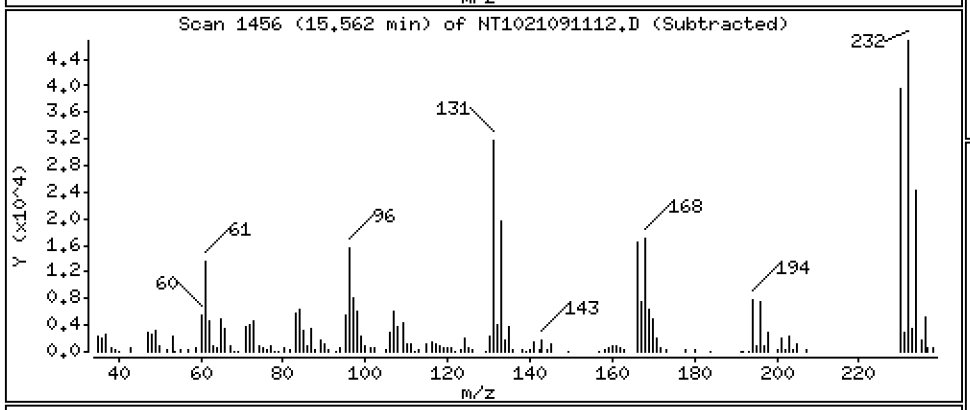
Column phase: ZB-5msi

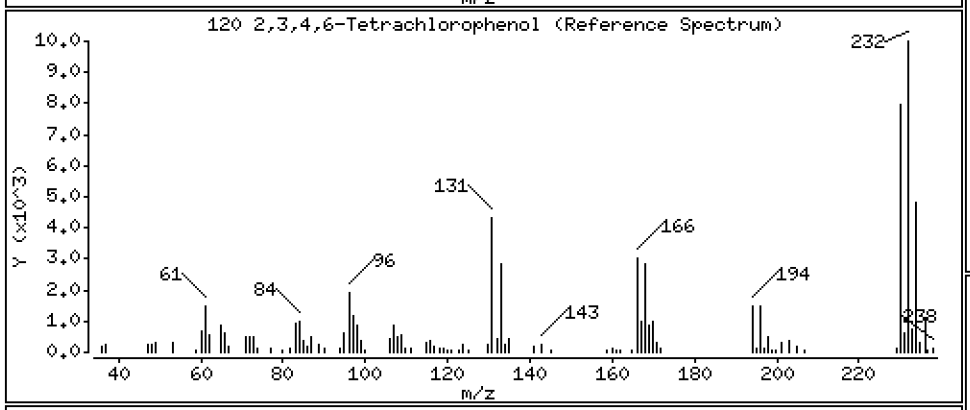
Column diameter: 0.25

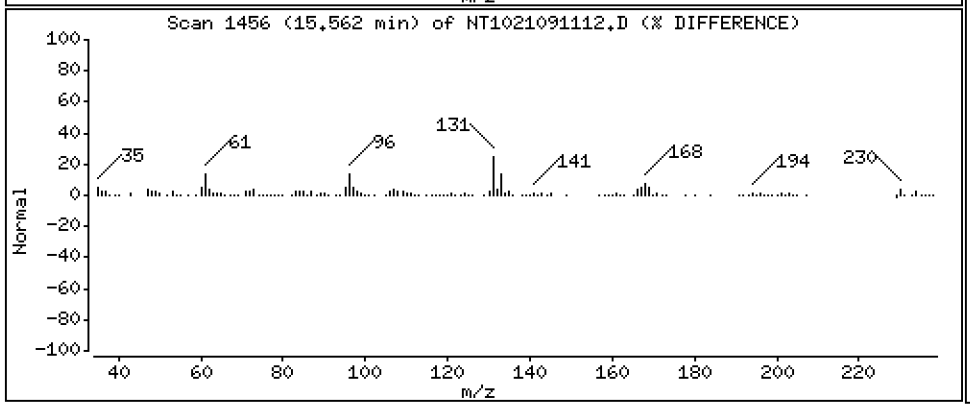
120 2,3,4,6-Tetrachlorophenol

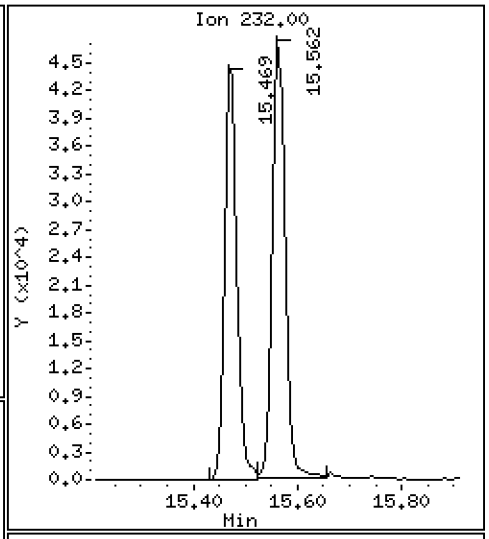
Concentration: 3.950 ug/mL

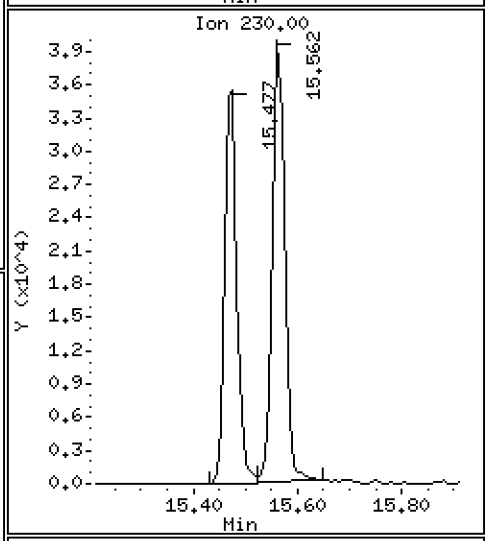


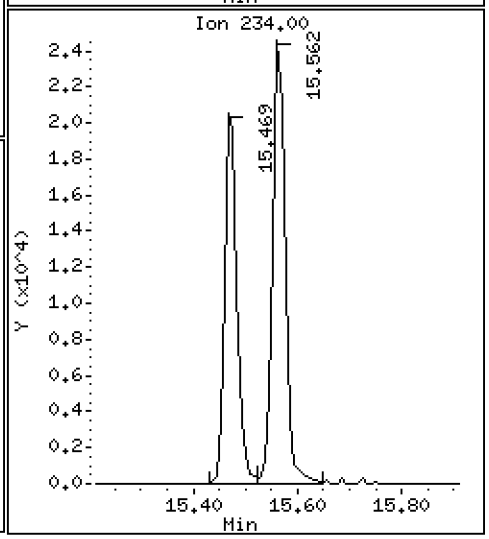












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Smp Info : BJH0655-MS1
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Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.643	6.635	(0.754)	428992	9.33218	9.332
$	2 Phenol-d5	99	8.212	8.204	(0.932)	768758	11.6845	11.68
	3 Phenol	94	8.227	8.227	(0.933)	214453	3.56130	3.561
$	5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	531185	11.3338	11.33
	4 Bis(2-Chloroethyl)ether	93	8.366	8.366	(0.949)	168789	3.83111	3.831
	6 2-Chlorophenol	128	8.490	8.490	(0.963)	170628	3.41479	3.415
	7 1,3-Dichlorobenzene	146	8.745	8.745	(0.992)	174916	3.36669	3.367
*	8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	137498	4.00000	
	9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	156270	3.97293	3.973
$	10 1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	218945	6.87728	6.877
	12 1,2-Dichlorobenzene	146	9.188	9.188	(1.042)	162645	3.63345	3.633
	11 Benzyl alcohol	108	9.087	9.087	(1.031)	95373	3.44313	3.443
	14 2,2'-oxybis(1-Chloropropane)	121	9.382	9.374	(1.064)	55436	4.17557	4.176
	13 2-Methylphenol	108	9.320	9.320	(1.057)	139256	3.65108	3.651
	17 Hexachloroethane	117	9.770	9.778	(1.108)	73830	4.33999	4.340
	16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	114594	4.28313	4.283
	15 4-Methylphenol	108	9.591	9.584	(1.088)	160282	3.93428	3.934
$	18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	424425	8.94250	8.942
	19 Nitrobenzene	77	9.925	9.925	(0.881)	203982	4.66153	4.662
	20 Isophorone	82	10.367	10.367	(0.921)	411720	6.08807	6.088
	21 2-Nitrophenol	139	10.545	10.545	(0.937)	107169	4.30042	4.300
	22 2,4-Dimethylphenol	107	10.613	10.605	(0.943)	479777	12.4759	12.48
	23 Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	159674	3.99966	4.000
	24 Benzoic acid	105	10.817	10.834	(0.961)	333634	16.7885	16.79
	25 2,4-Dichlorophenol	162	11.004	11.004	(0.977)	492253	12.4901	12.49
	26 1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	138028	3.61849	3.618
*	27 Naphthalene-d8	136	11.260	11.260	(1.000)	453294	4.00000	
	28 Naphthalene	128	11.299	11.306	(1.003)	420335	3.73779	3.738
	29 4-Chloroaniline	127	11.437	11.437	(1.016)	275108	5.04926	5.049
	30 Hexachlorobutadiene	225	11.654	11.654	(1.035)	85989	4.09736	4.097
	31 4-Chloro-3-methylphenol	107	12.405	12.405	(1.102)	574632	14.5097	14.51
	32 2-Methylnaphthalene	142	12.675	12.675	(1.126)	384040	3.57857	3.579
	33 Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	145226	7.53599	7.536

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	369161	13.8359	13.84
	35 2,4,5-Trichlorophenol	196	13.387	13.380	(0.902)	389170	13.8840	13.88
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	904481	8.60421	8.604
	37 2-Chloronaphthalene	162	13.666	13.658	(0.921)	359975	4.30153	4.302
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	384538	15.4755	15.48
	39 Dimethylphthalate	163	14.355	14.347	(0.968)	364785	4.22722	4.227
	40 Acenaphthylene	152	14.525	14.525	(0.979)	455213	3.49105	3.491
	41 2,6-Dinitrotoluene	165	14.494	14.486	(0.977)	267775	14.0508	14.05
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	263114	4.00000	
	43 3-Nitroaniline	138	14.781	14.773	(0.996)	186159	7.25477	7.255
	44 Acenaphthene	153	14.896	14.896	(1.004)	266449	3.86325	3.863
	45 2,4-Dinitrophenol	184	14.982	14.982	(1.010)	208647	20.1026	20.10
	46 Dibenzofuran	168	15.221	15.221	(1.026)	445038	3.63123	3.631
	47 4-Nitrophenol	109	15.121	15.113	(1.019)	167751	17.9012	17.90
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	364218	13.6910	13.69
	50 Diethylphthalate	149	15.793	15.793	(1.065)	355395	4.56905	4.569
	49 Fluorene	166	15.925	15.925	(1.073)	481378	4.42555	4.426
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	197589	4.05832	4.058
	52 4-Nitroaniline	138	16.033	16.025	(1.081)	235658	8.83259	8.833
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	408433	23.9082	23.91
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	261405	4.22295	4.223
$	55 2,4,6-Tribromophenol	330	16.464	16.457	(1.110)	147100	14.3849	14.38
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	114049	4.59663	4.597
	57 Hexachlorobenzene	284	17.221	17.221	(0.965)	99667	4.23745	4.237
	58 Pentachlorophenol	266	17.584	17.584	(0.986)	116778	13.0190	13.02
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	413853	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	409210	4.04996	4.050
	61 Anthracene	178	17.979	17.979	(1.008)	418066	3.85101	3.851
	62 Carbazole	167	18.312	18.312	(1.026)	429036	3.83728	3.837
	63 Di-n-butylphthalate	149	19.116	19.116	(1.072)	632356	4.57161	4.572
	64 Fluoranthene	202	20.269	20.269	(0.886)	427602	5.76455	5.765
	65 Pyrene	202	20.695	20.695	(0.904)	378438	4.97088	4.971
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	437795	9.15146	9.151
	67 Butylbenzylphthalate	149	21.918	21.918	(0.958)	153857	5.13502	5.135
	68 Benzo(a)anthracene	228	22.863	22.863	(0.999)	236421	3.99339	3.993
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	169462	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.824	22.824	(0.997)	79292	3.36632	3.366
	71 Chrysene	228	22.932	22.932	(1.002)	197327	4.20429	4.204
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	190782	4.77899	4.779
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	414807	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	367825	4.02333	4.023
	74 Benzo(b)fluoranthene	252	24.666	24.674	(0.972)	234238	3.97028	3.970
	75 Benzo(k)fluoranthene	252	24.705	24.713	(0.973)	211575	3.65820	3.658
	76 Benzo(a)pyrene	252	25.270	25.270	(0.996)	186893	3.58599	3.586
*	77 Perylene-d12	264	25.379	25.379	(1.000)	160362	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.819	27.812	(1.096)	215289	3.99870	3.999
	79 Dibenzo(a,h)anthracene	278	27.819	27.819	(1.096)	172397	4.18533	4.185
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	170585	3.62809	3.628
	90 N-Nitrosodimethylamine	74	4.519	4.504	(0.513)	222244	7.50742	7.507
	91 Aniline	93	8.281	8.281	(0.939)	322218	4.68700	4.687
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.566	4.519	(0.518)	64488	0.68955	0.6895
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	378355	3.65511	3.655
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.241	16.241	(1.095)	449581	5.00918	5.009

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.666	24.713	(0.972)	423492	7.52398	7.524
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	76380	3.94995	3.950

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091112.D
Lab Smp Id: BJH0655-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	137498	-0.15
27 Naphthalene-d8	447216	223608	894432	453294	1.36
42 Acenaphthene-d10	264765	132383	529530	263114	-0.62
59 Phenanthrene-d10	428682	214341	857364	413853	-3.46
69 Chrysene-d12	221118	110559	442236	169462	-23.36
134 Di-n-octylphthala	404470	202235	808940	414807	2.56
77 Perylene-d12	154408	77204	308816	160362	3.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	-0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	-0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	-0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091112.D

Lab ID: BJH0655-MS1
nt10.i, ABN.m, 11-SEP-2021 17:27

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.518	0.513	0.0052	Pyridine

RRT check based on Ccal File: NT1021091106.D

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

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

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

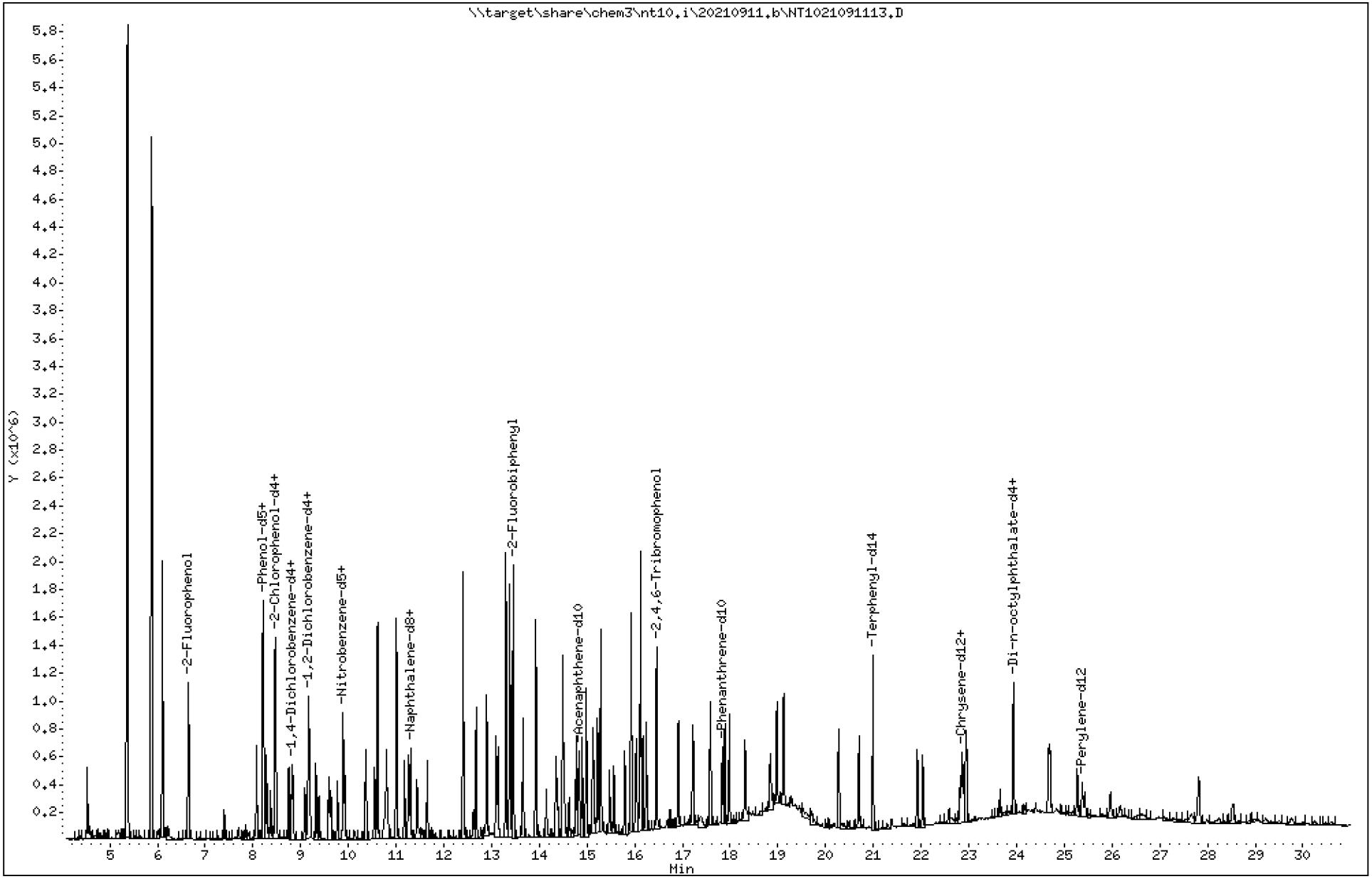
Instrument: nt10.i

Sample Info: BJH0655-MSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

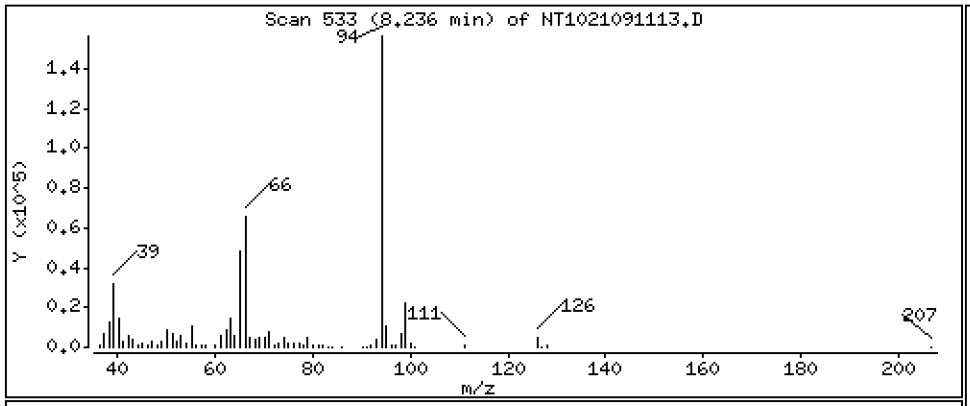
Operator: VTS

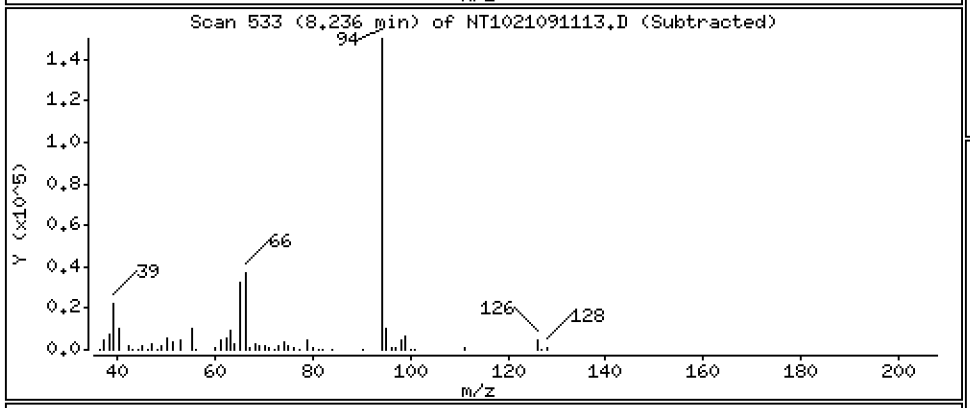
Column phase: ZB-5msi

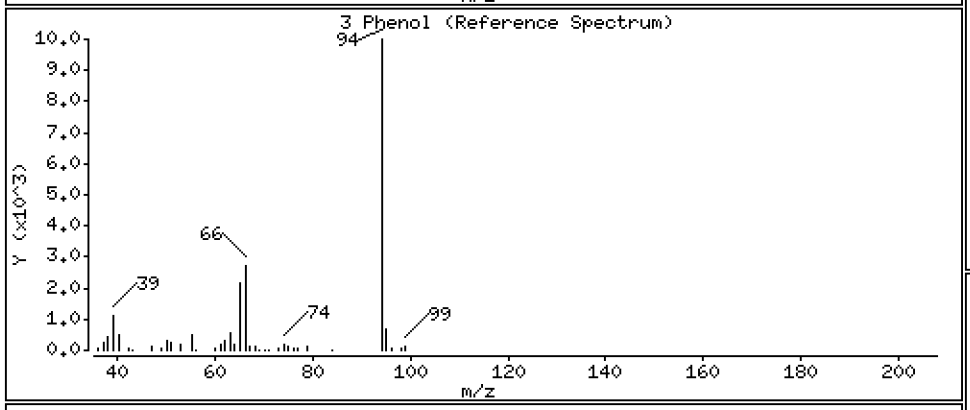
Column diameter: 0.25

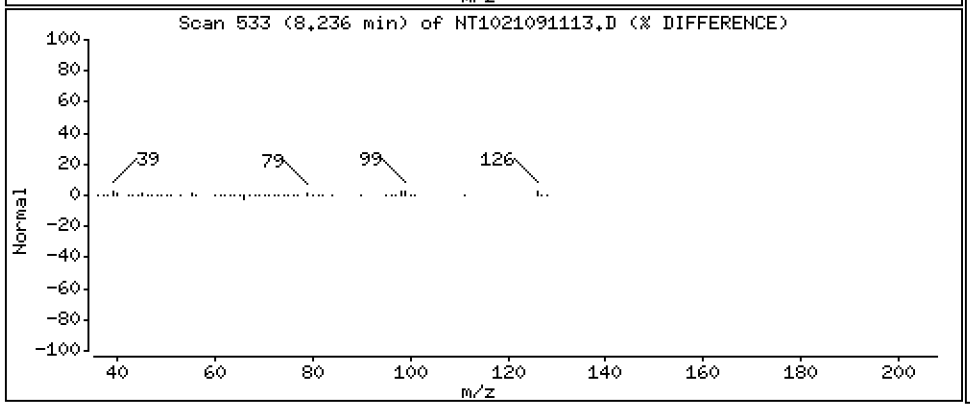
3 Phenol

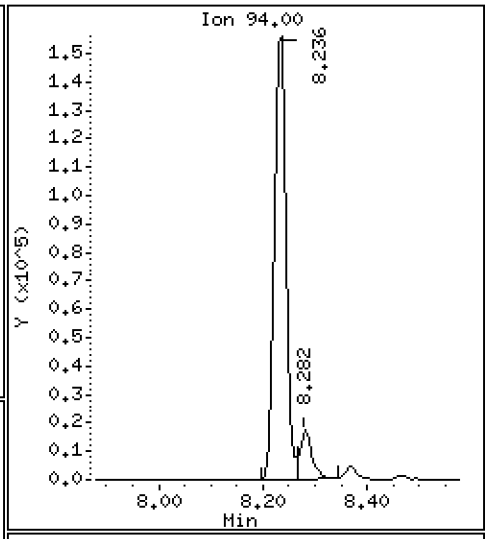
Concentration: 4.303 ug/mL

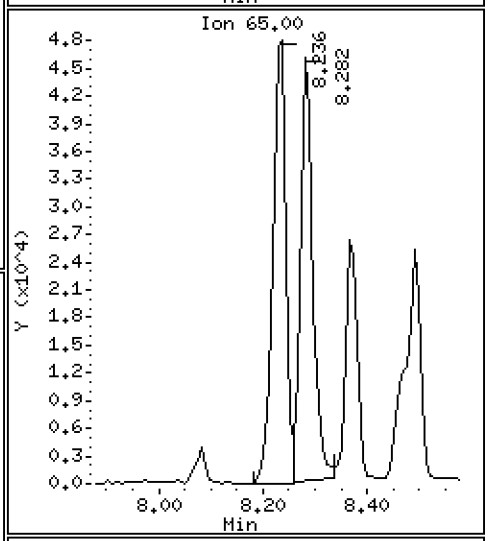


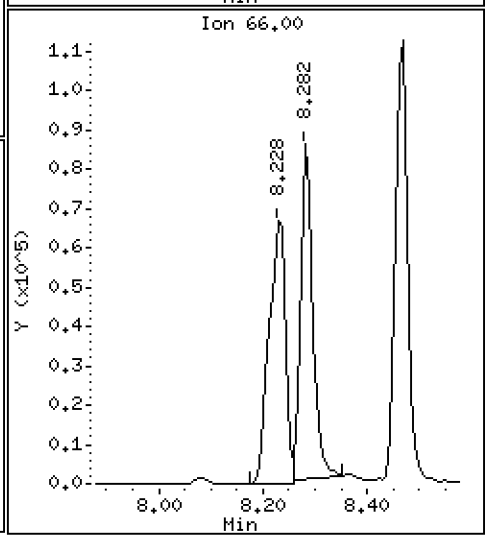












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

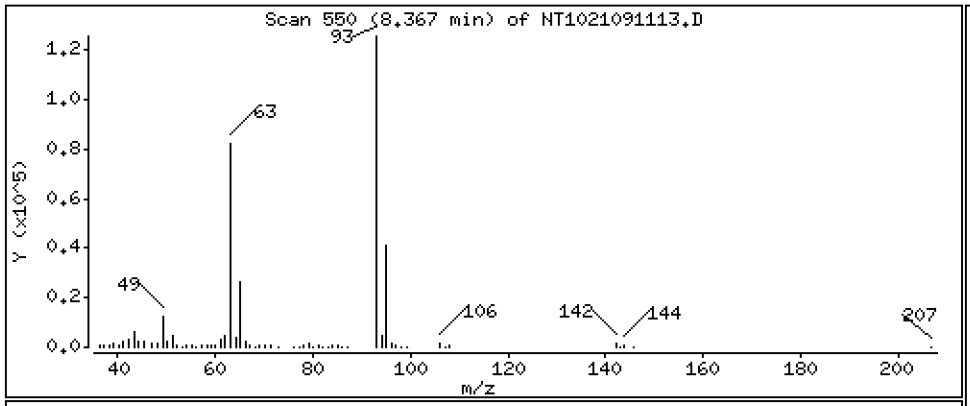
Operator: VTS

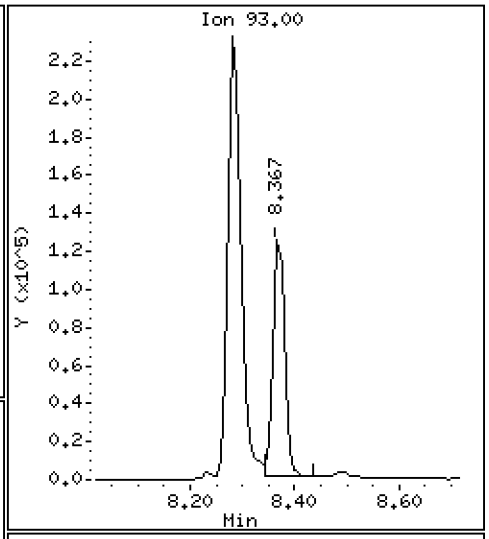
Column phase: ZB-5msi

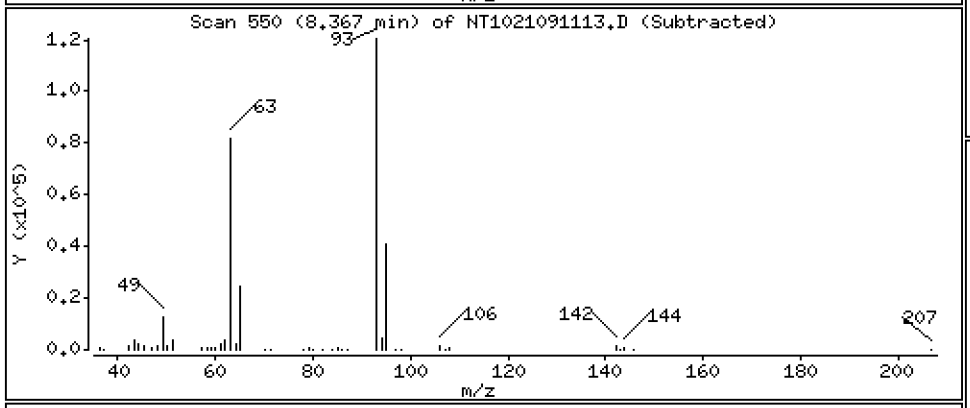
Column diameter: 0.25

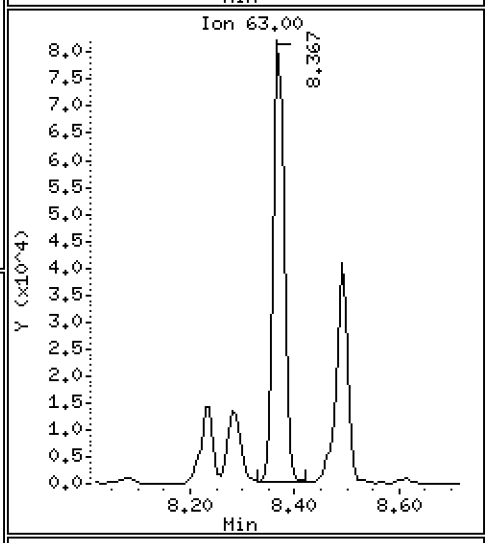
4 Bis(2-Chloroethyl)ether

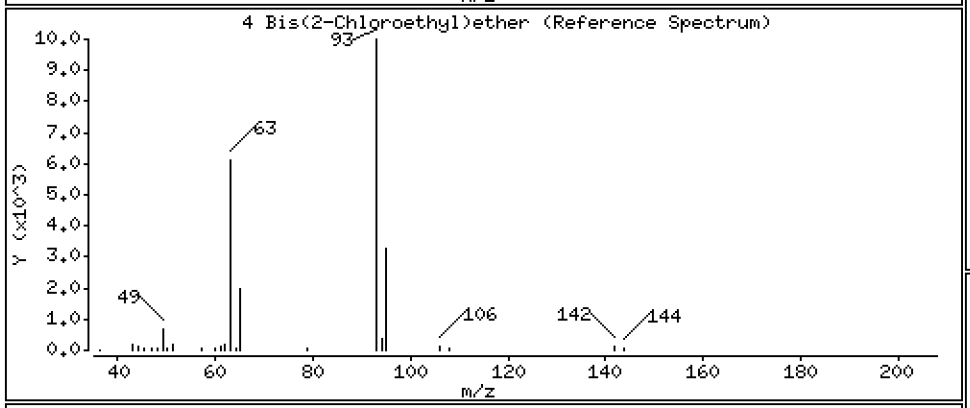
Concentration: 4.544 ug/mL

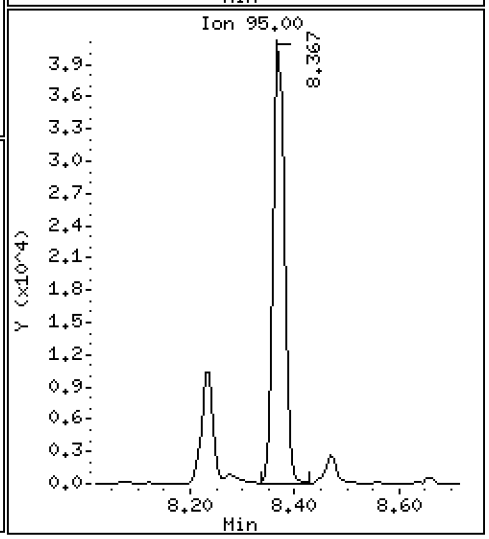


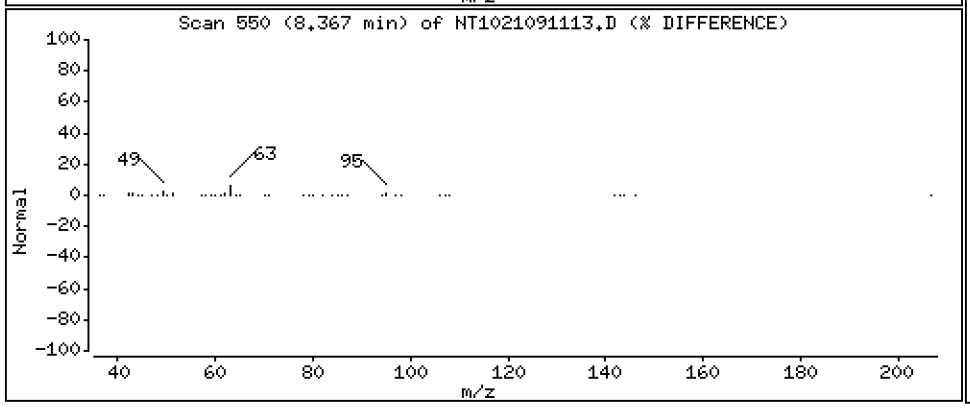












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

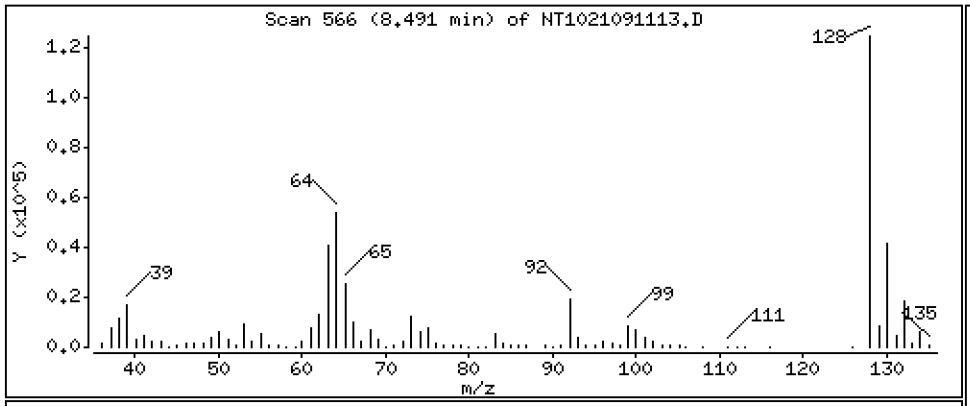
Operator: VTS

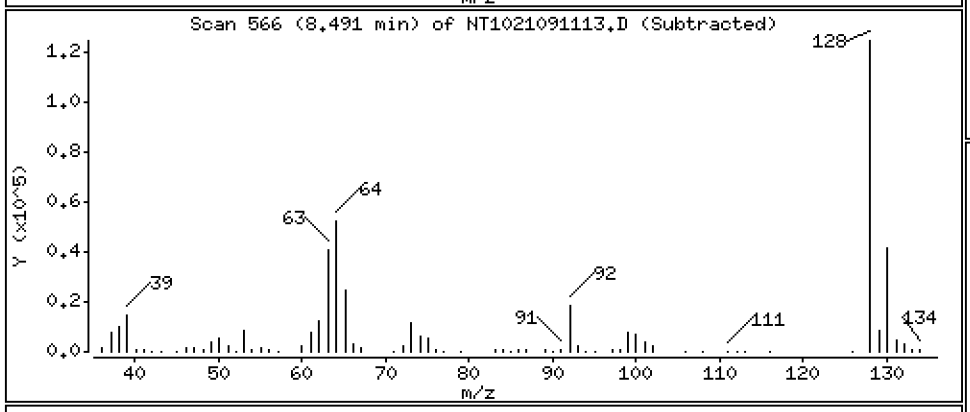
Column phase: ZB-5msi

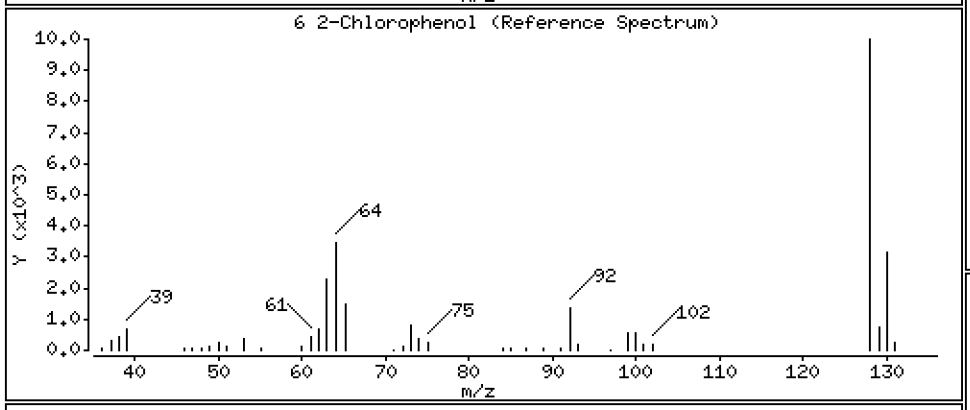
Column diameter: 0.25

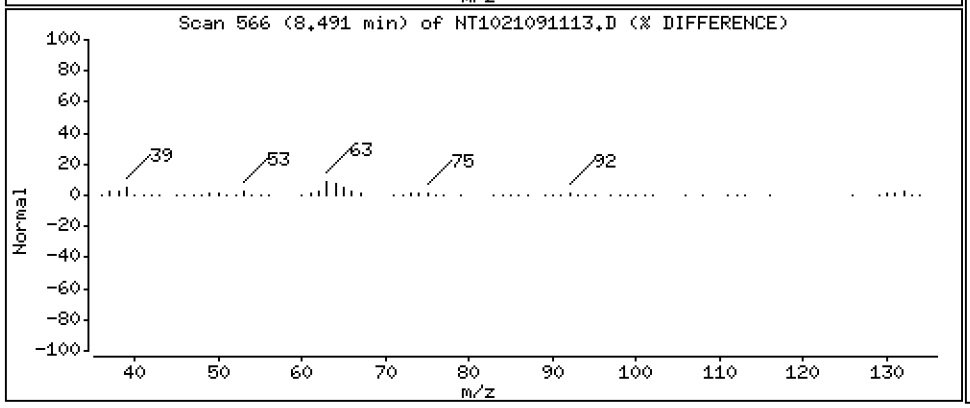
6 2-Chlorophenol

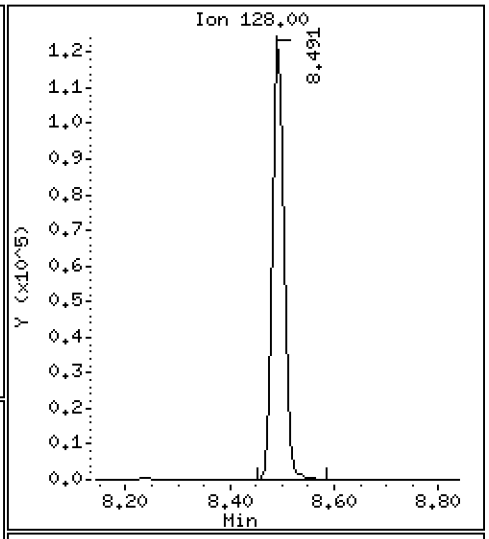
Concentration: 4.079 ug/mL

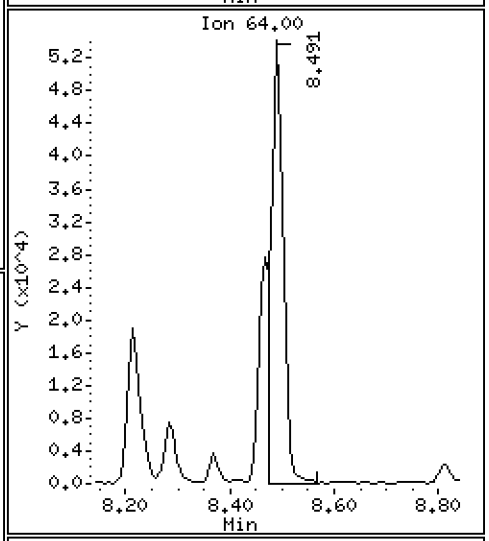


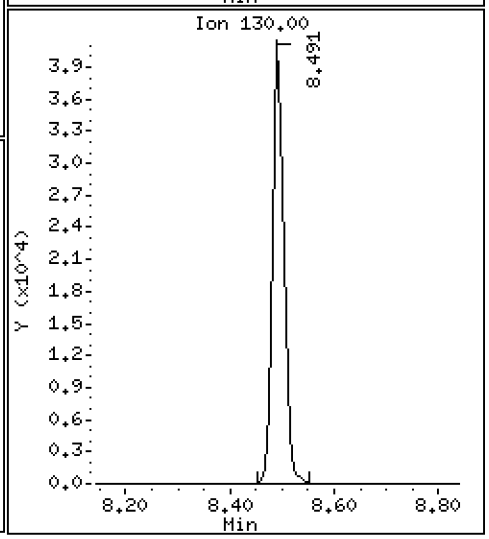












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

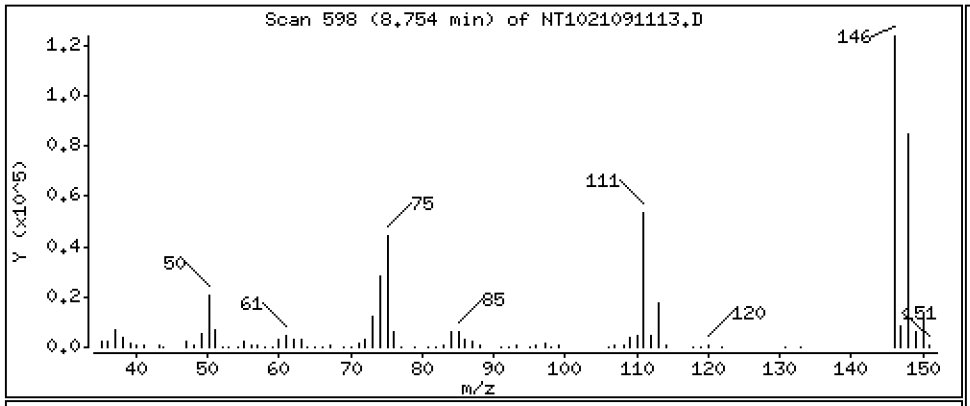
Operator: VTS

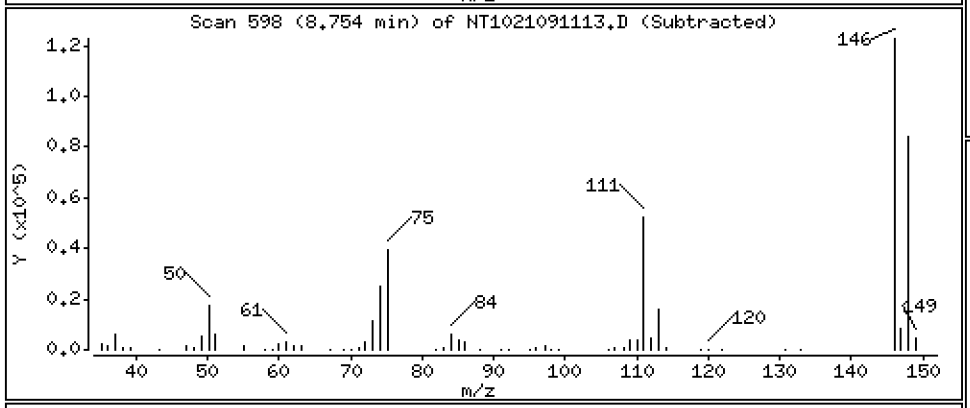
Column phase: ZB-5msi

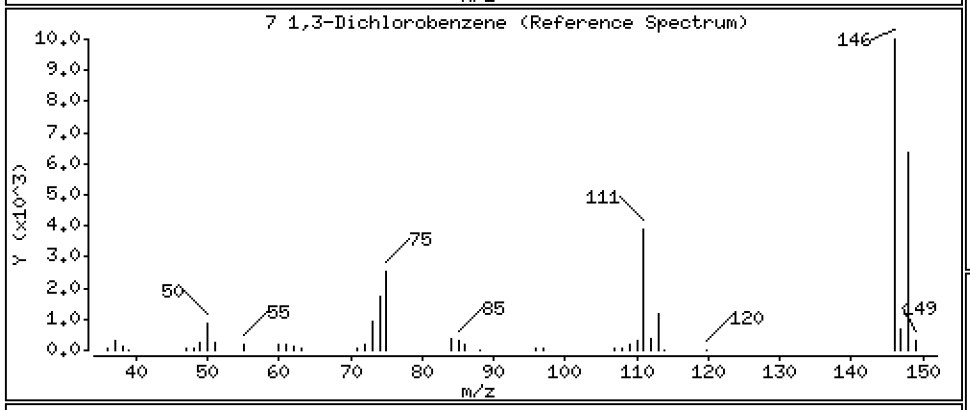
Column diameter: 0.25

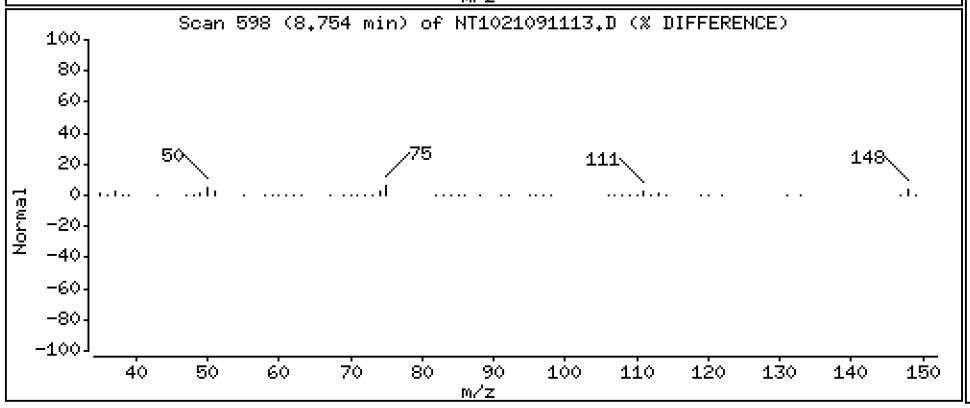
7 1,3-Dichlorobenzene

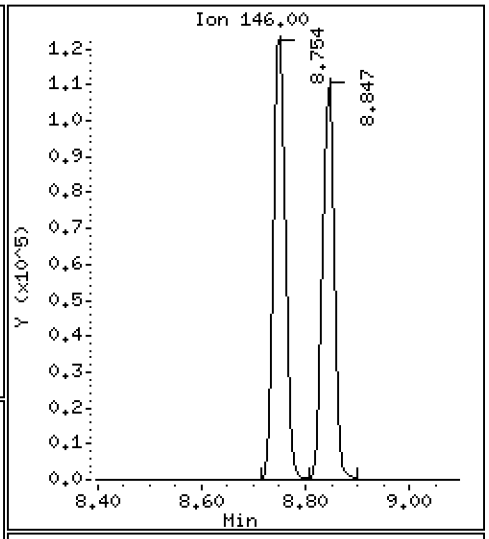
Concentration: 4.022 ug/mL

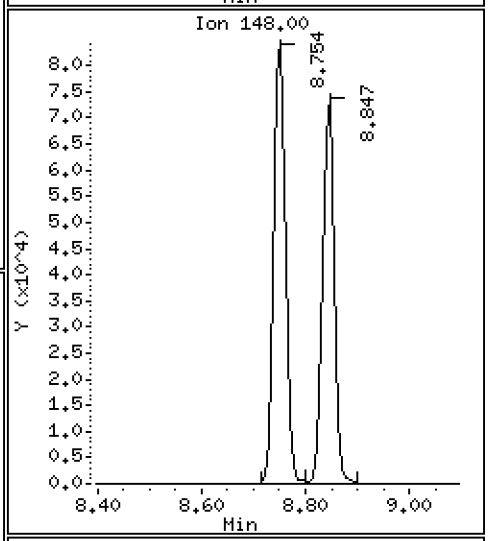


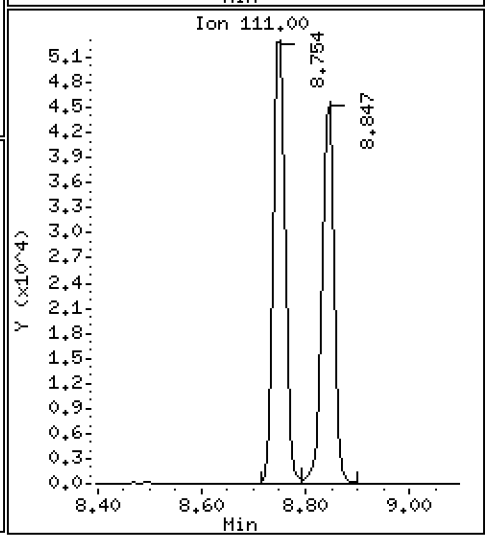












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

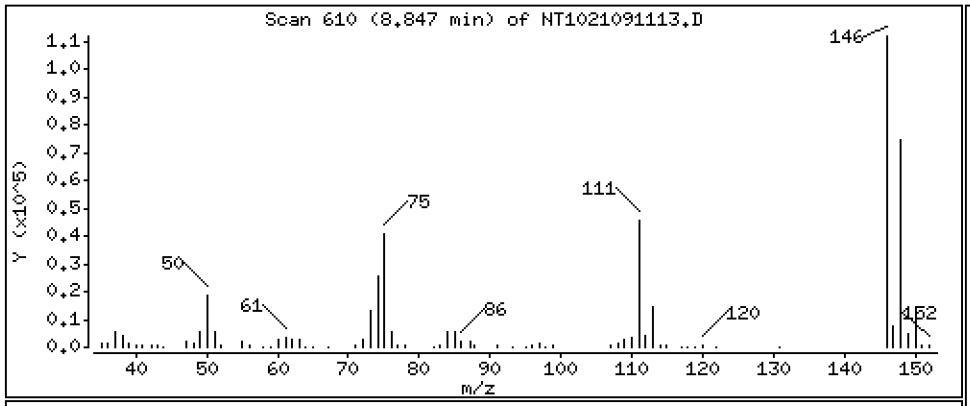
Operator: VTS

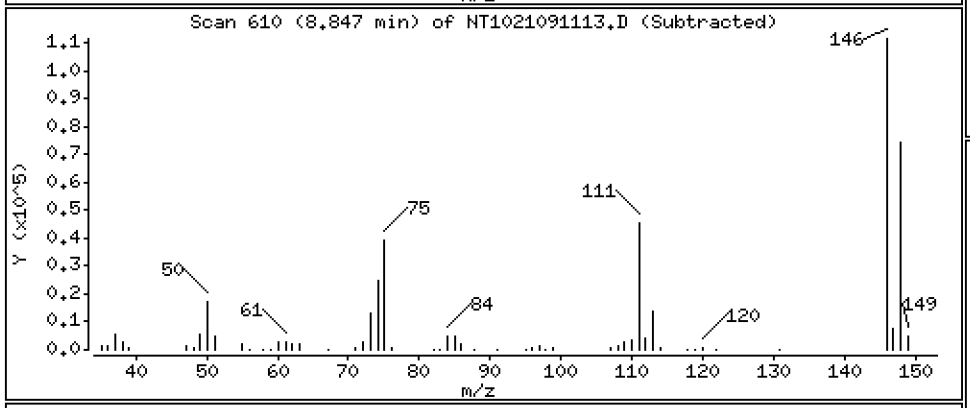
Column phase: ZB-5msi

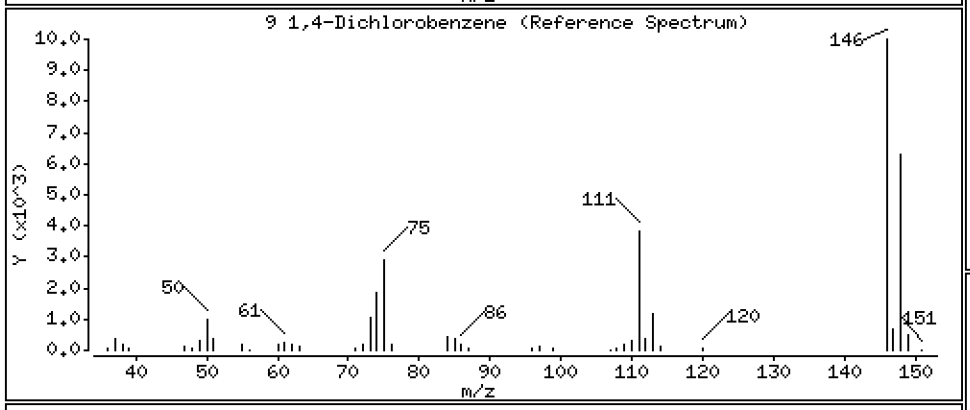
Column diameter: 0.25

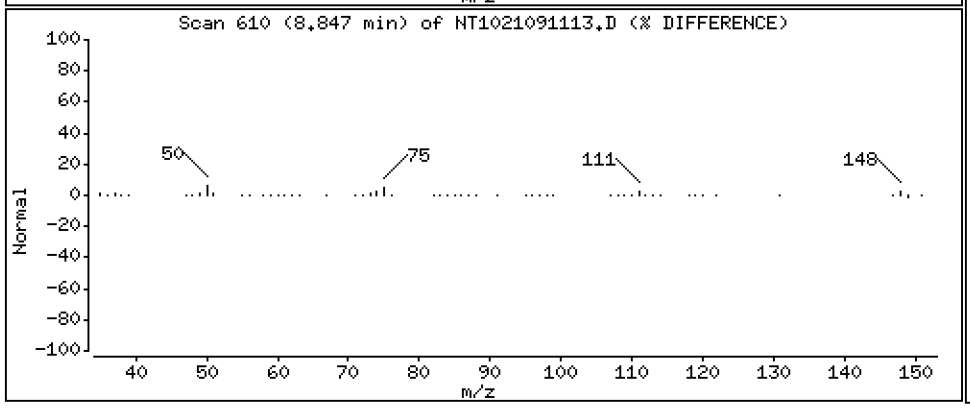
9 1,4-Dichlorobenzene

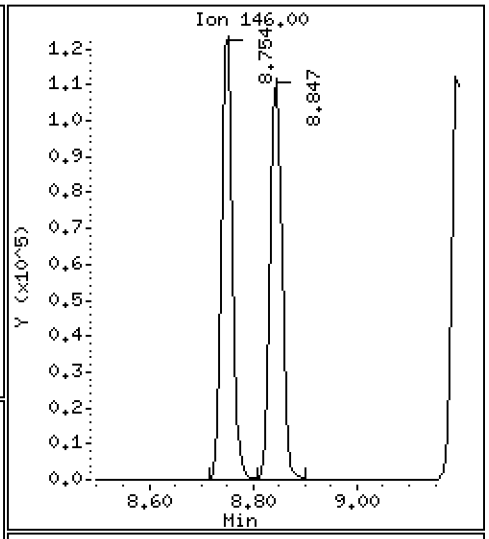
Concentration: 4.752 ug/mL

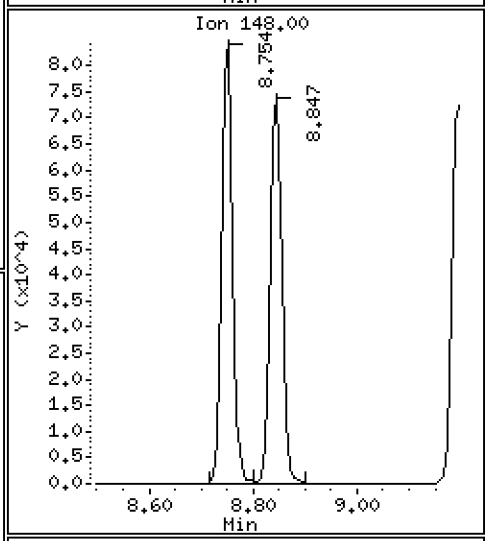


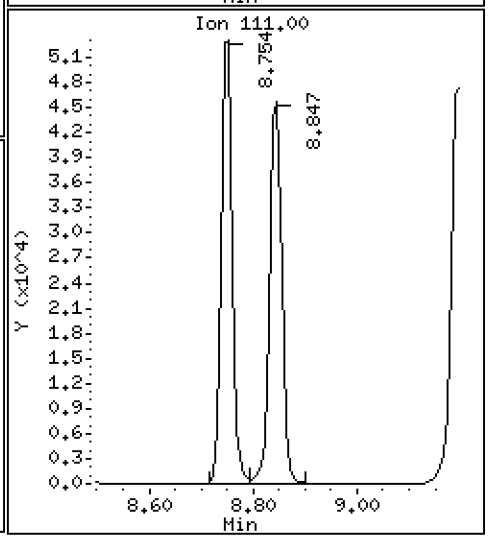












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

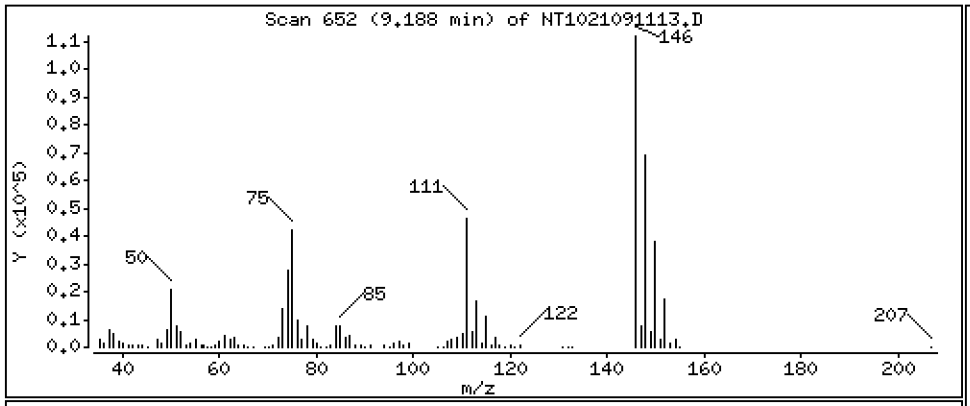
Operator: VTS

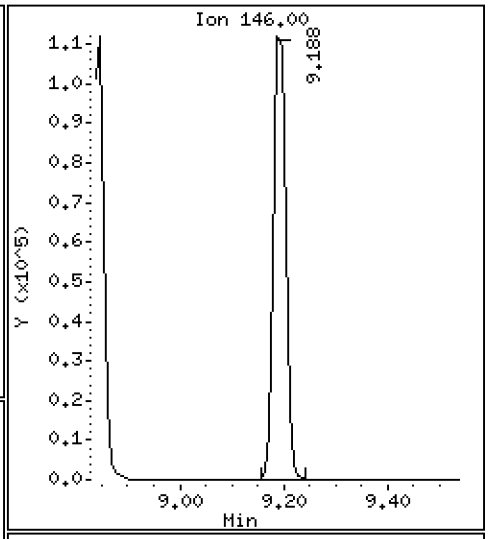
Column phase: ZB-5msi

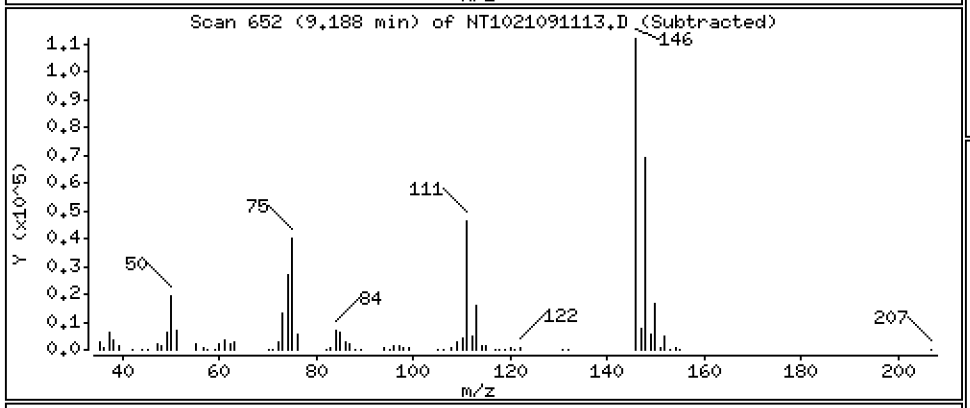
Column diameter: 0.25

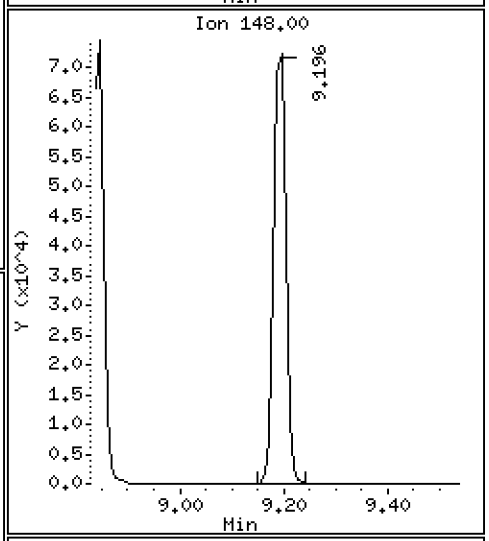
12 1,2-Dichlorobenzene

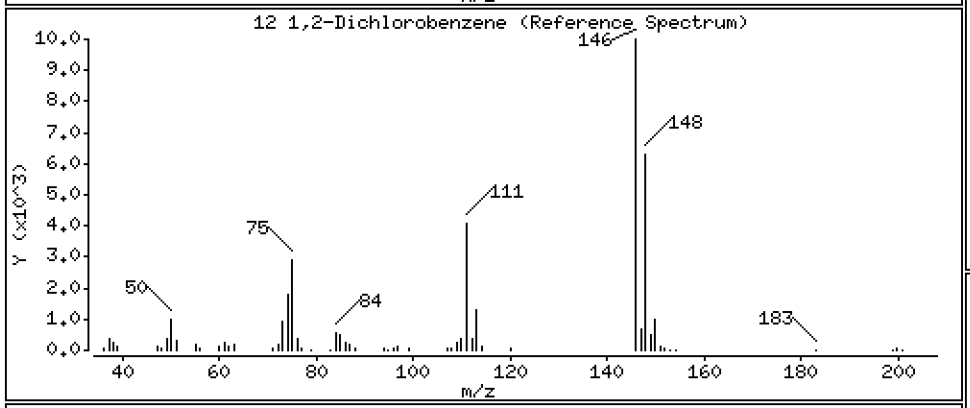
Concentration: 4.302 ug/mL

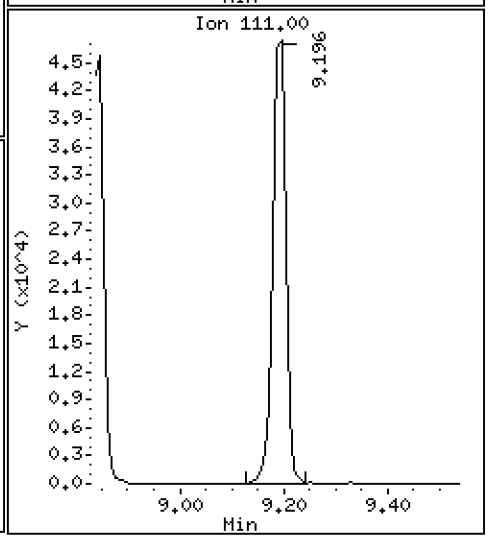


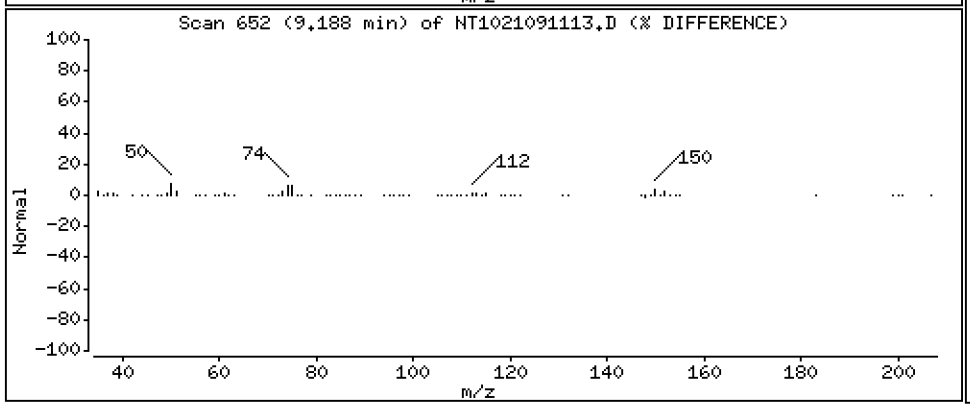












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

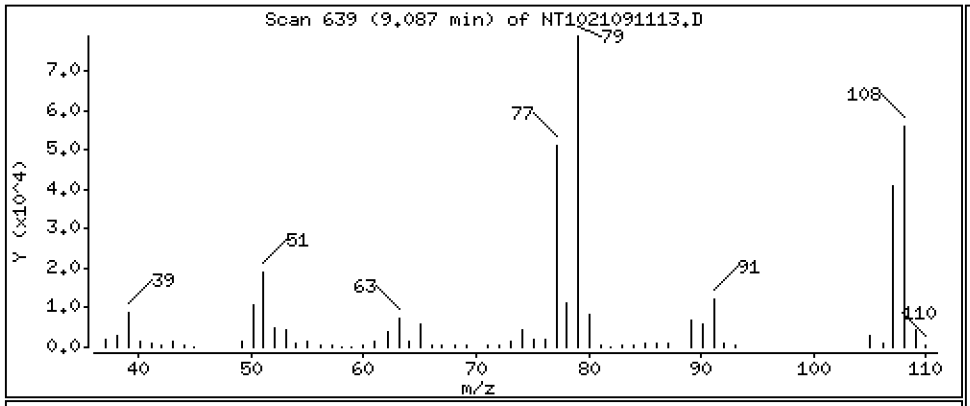
Operator: VTS

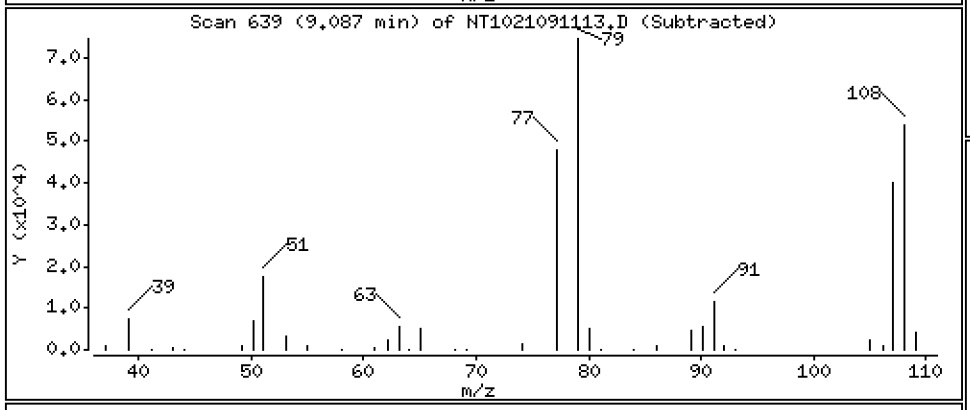
Column phase: ZB-5msi

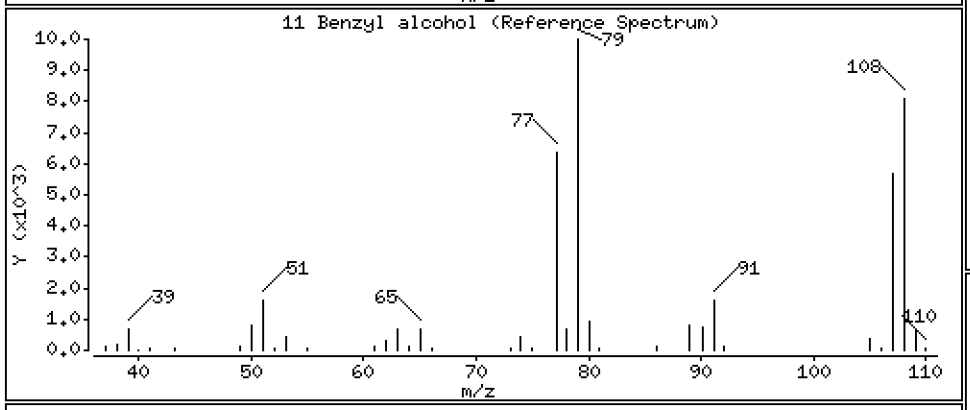
Column diameter: 0.25

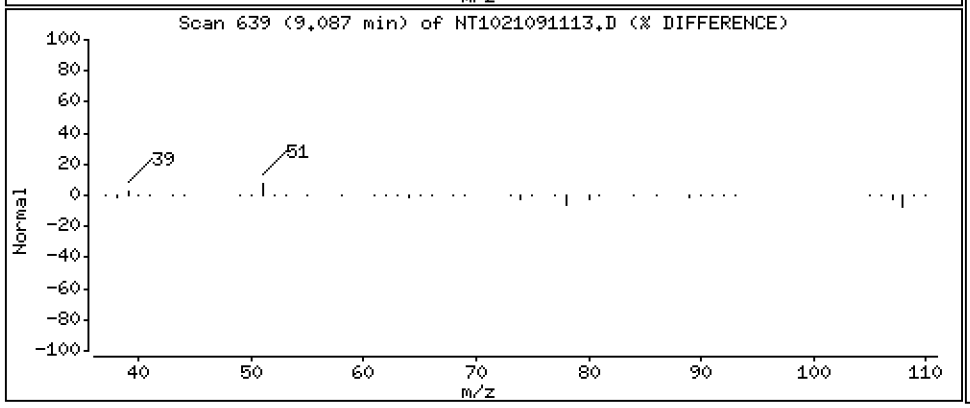
11 Benzyl alcohol

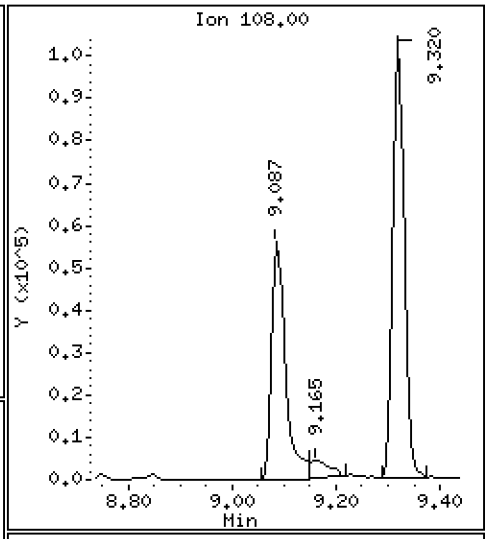
Concentration: 4.052 ug/mL

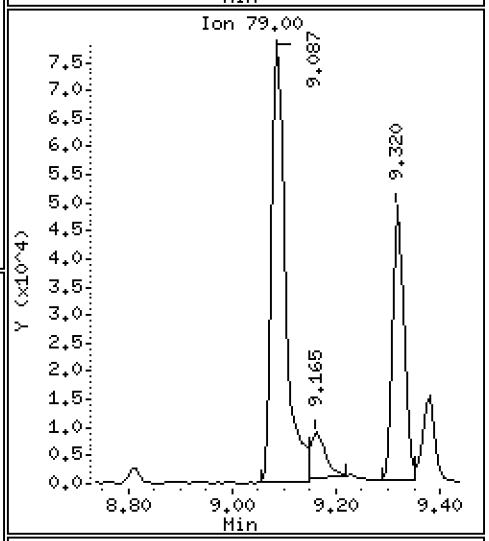


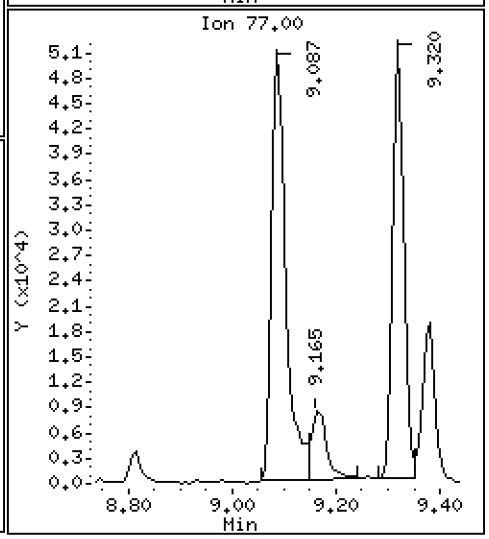












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

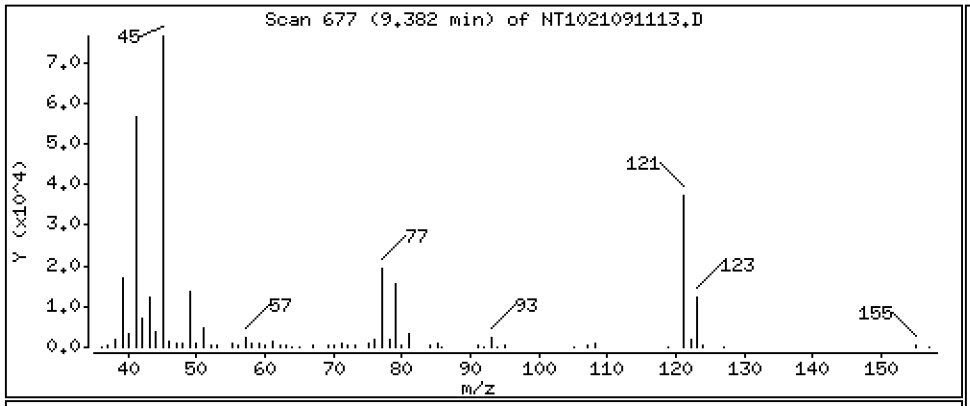
Operator: VTS

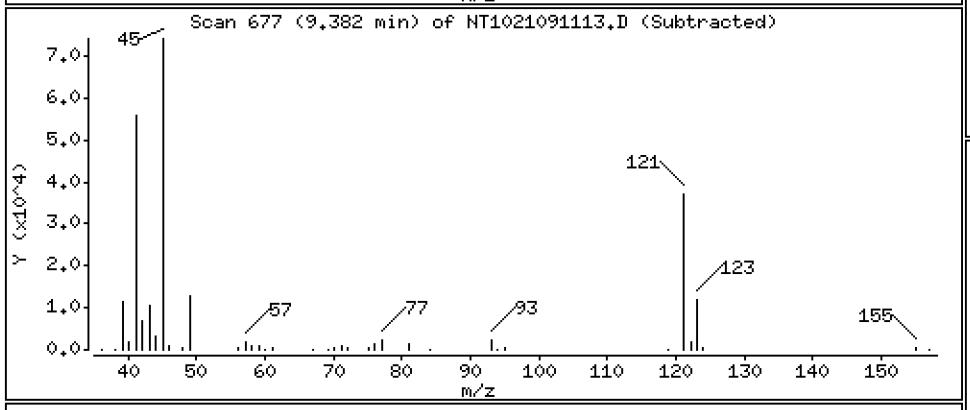
Column phase: ZB-5msi

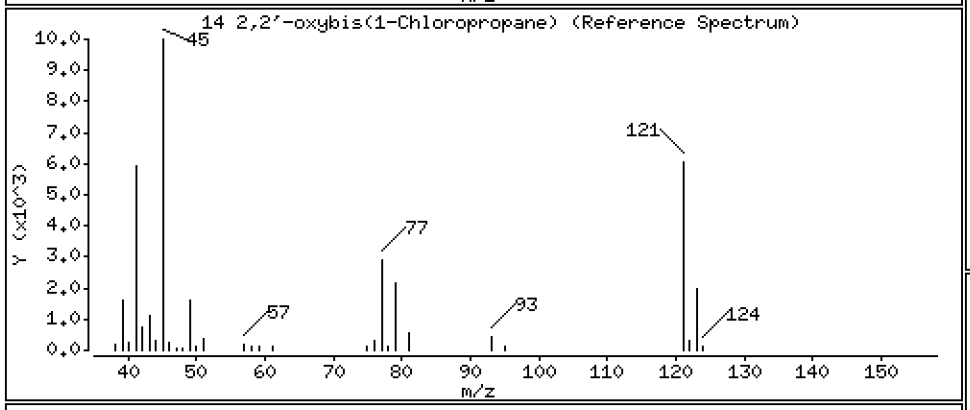
Column diameter: 0.25

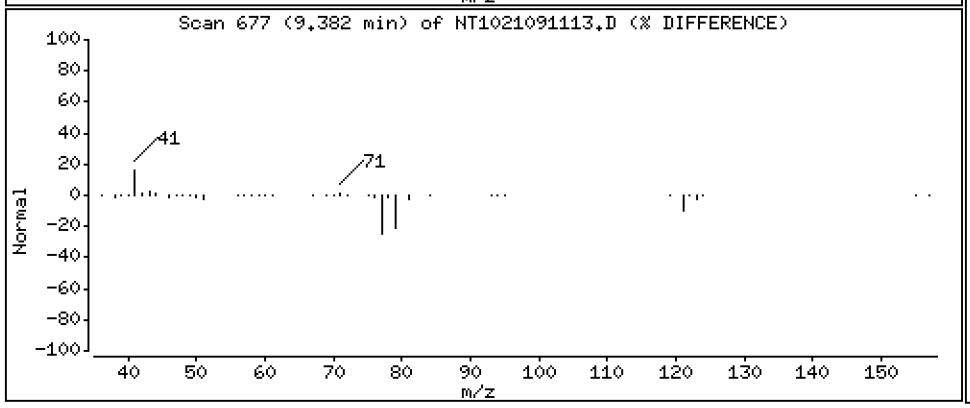
14 2,2'-oxybis(1-Chloropropane)

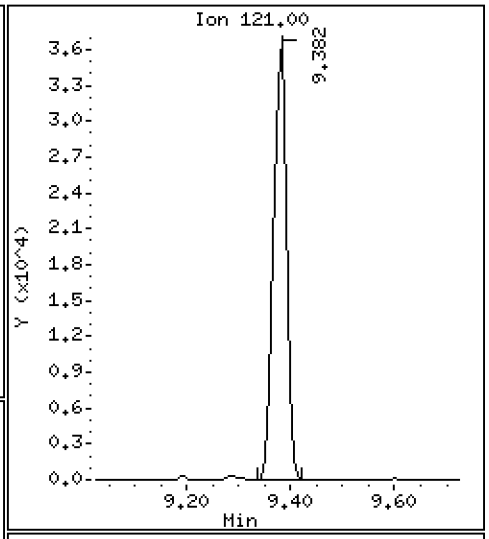
Concentration: 5.140 ug/mL

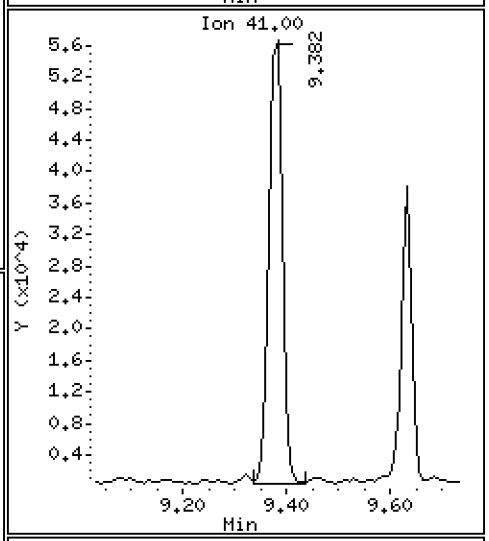


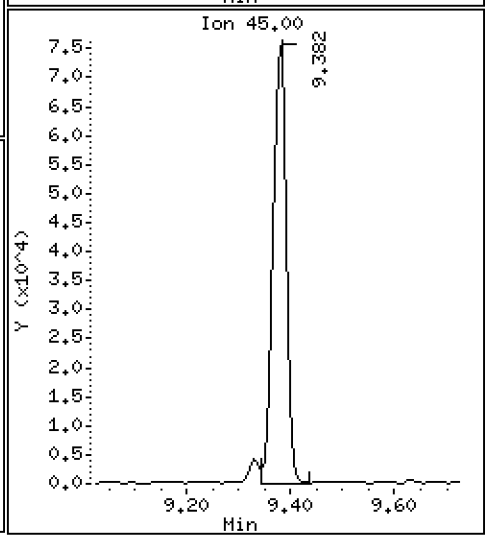












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

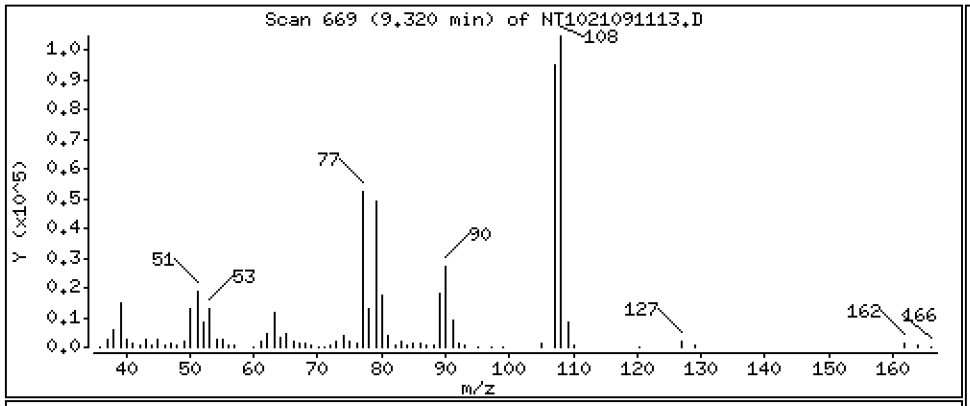
Operator: VTS

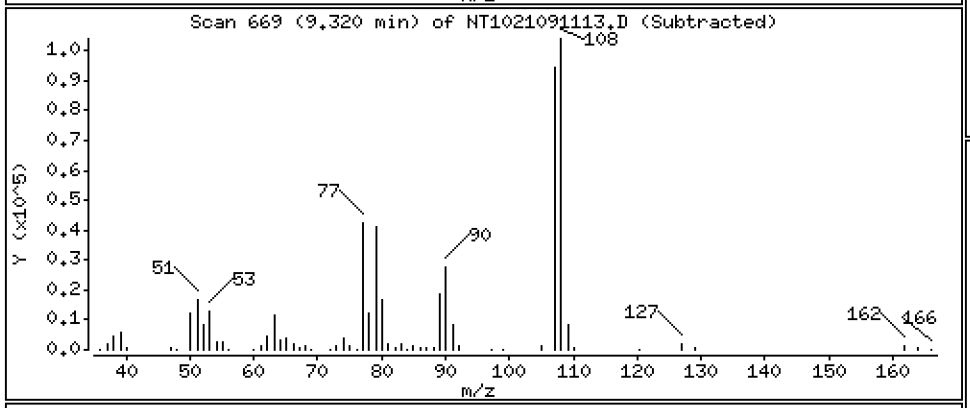
Column phase: ZB-5msi

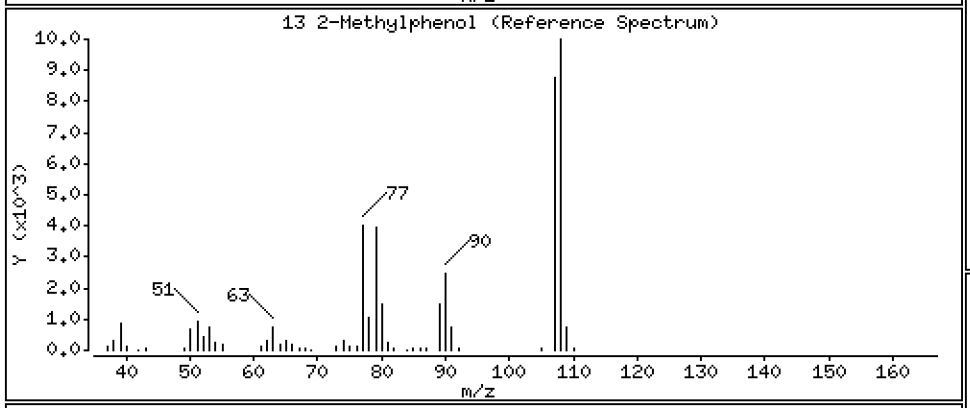
Column diameter: 0.25

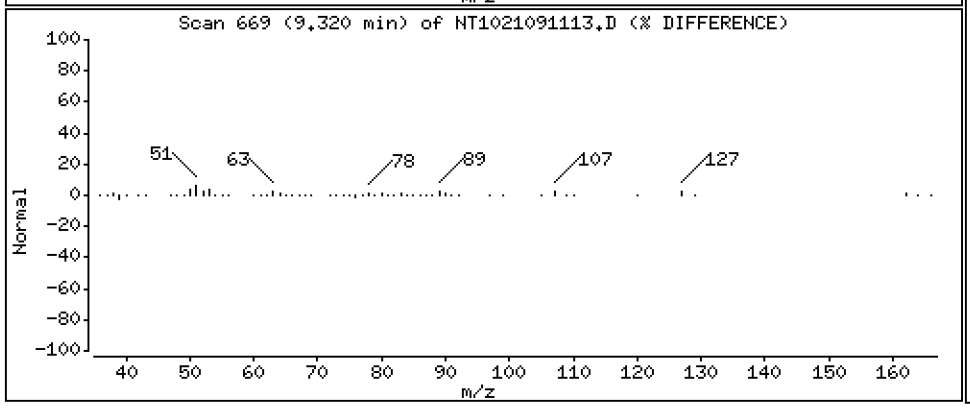
13 2-Methylphenol

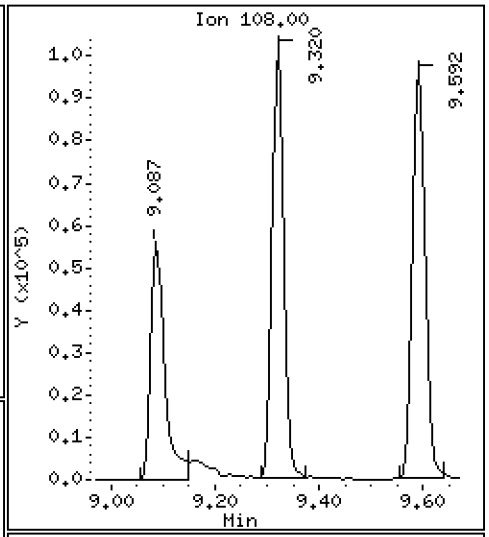
Concentration: 4.286 ug/mL

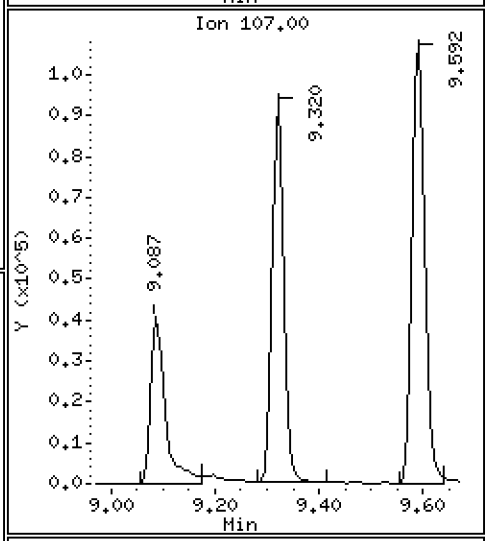


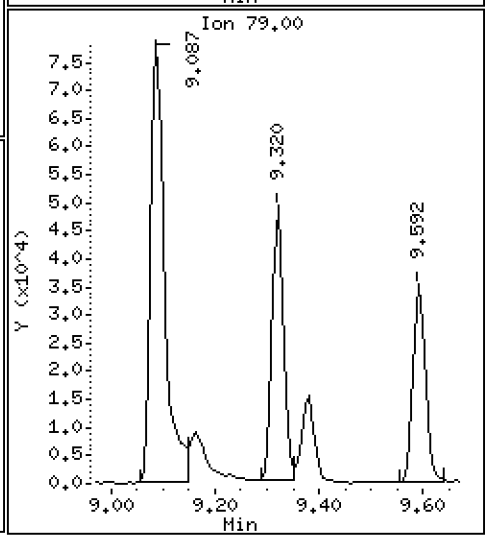












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

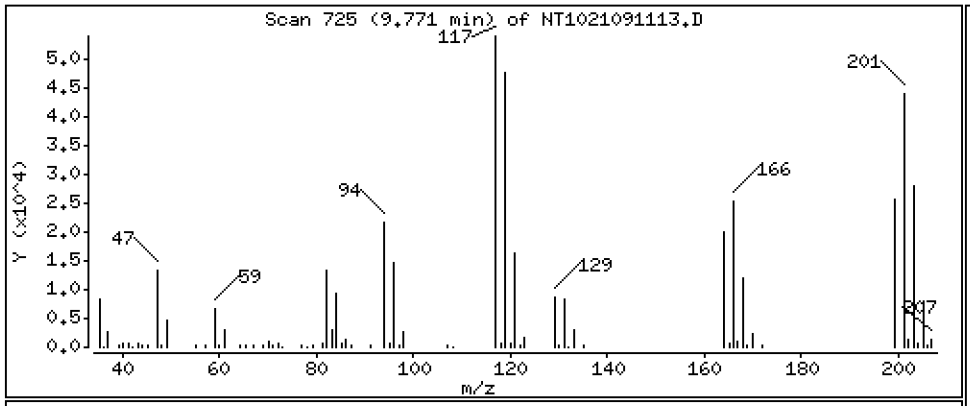
Operator: VTS

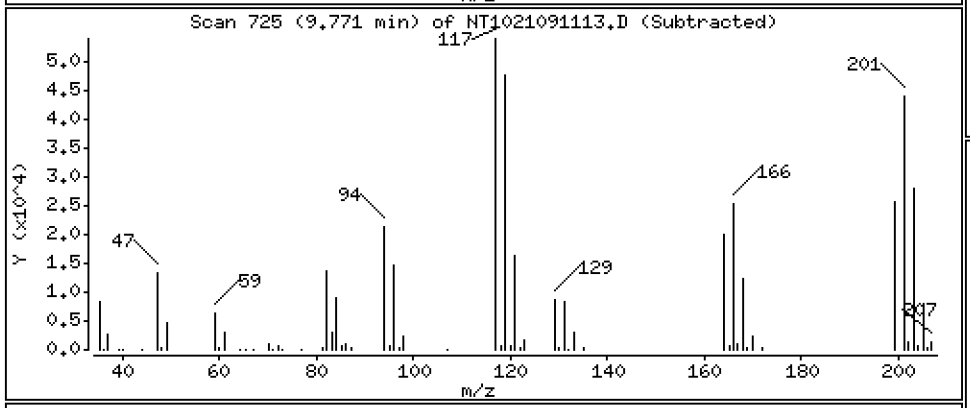
Column phase: ZB-5msi

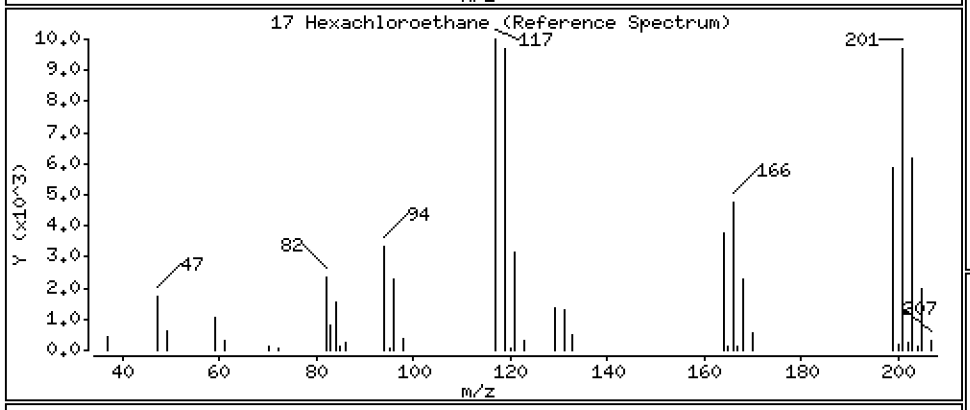
Column diameter: 0.25

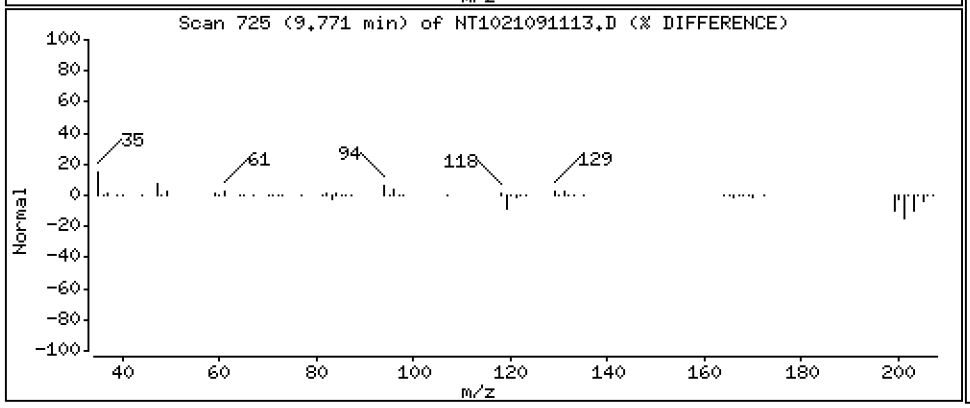
17 Hexachloroethane

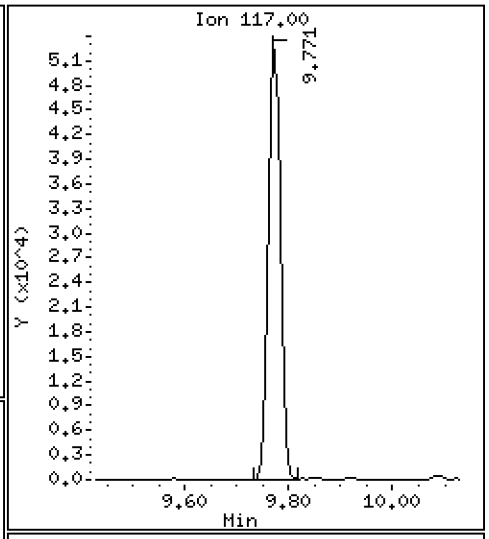
Concentration: 5.273 ug/mL

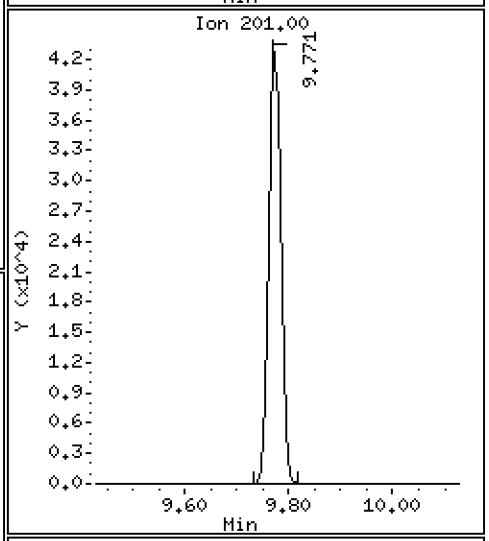


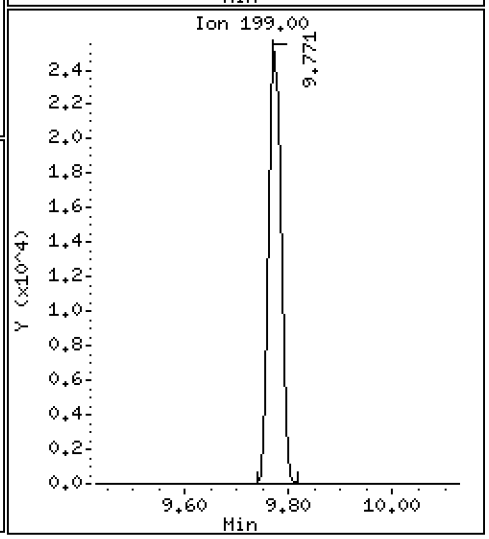












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

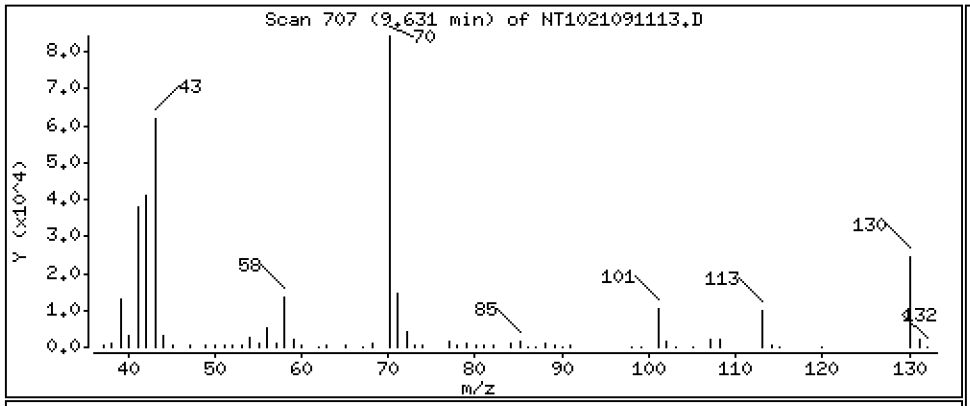
Operator: VTS

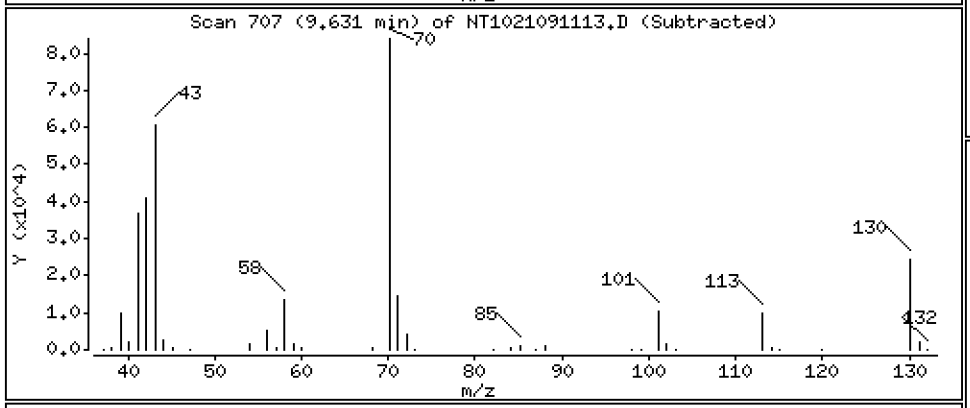
Column phase: ZB-5msi

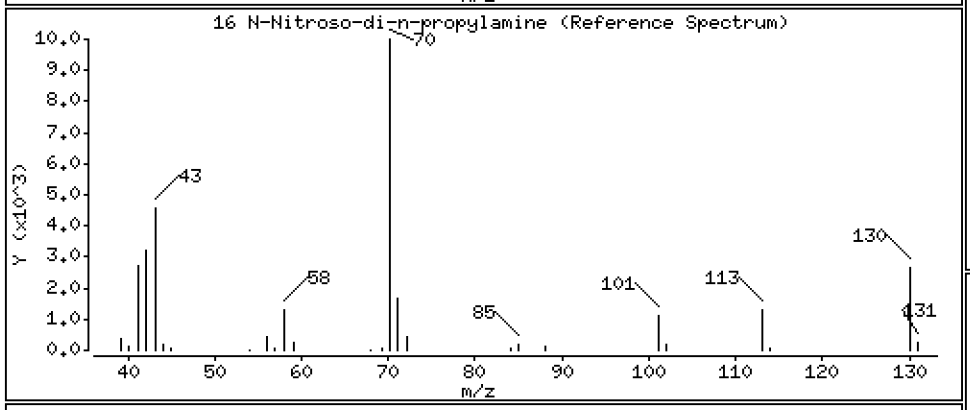
Column diameter: 0.25

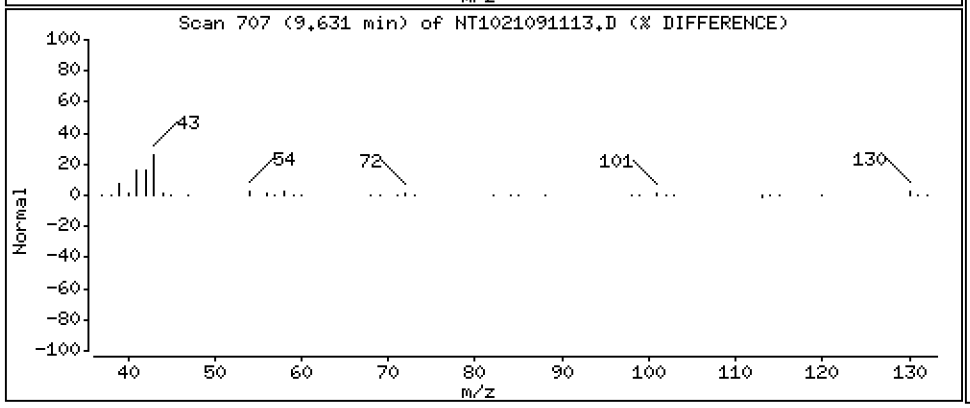
16 N-Nitroso-di-n-propylamine

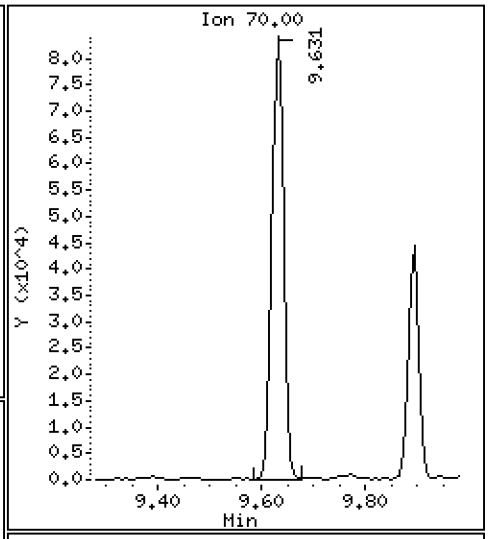
Concentration: 5.168 ug/mL

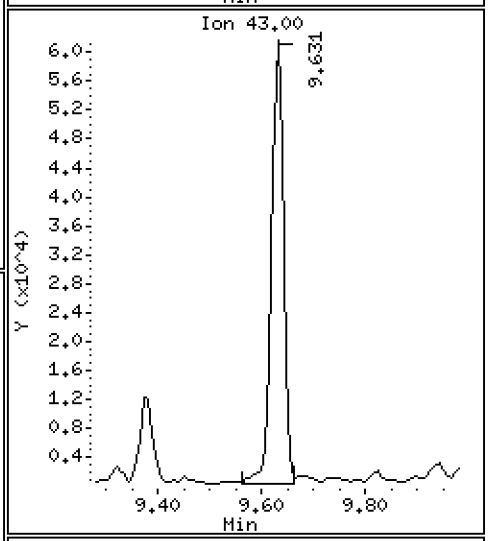


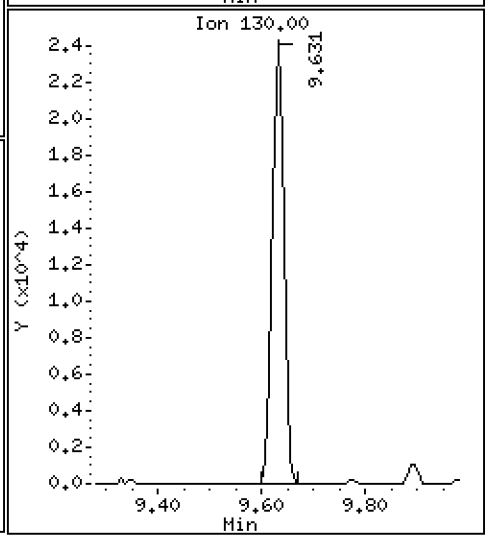












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

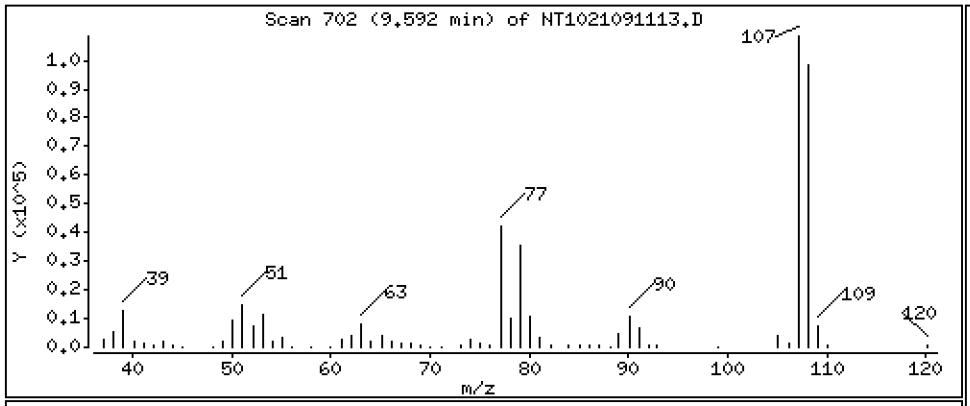
Operator: VTS

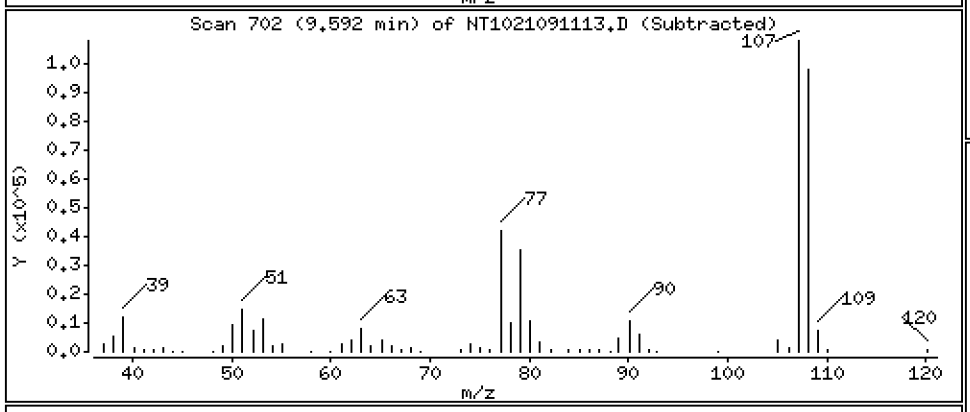
Column phase: ZB-5msi

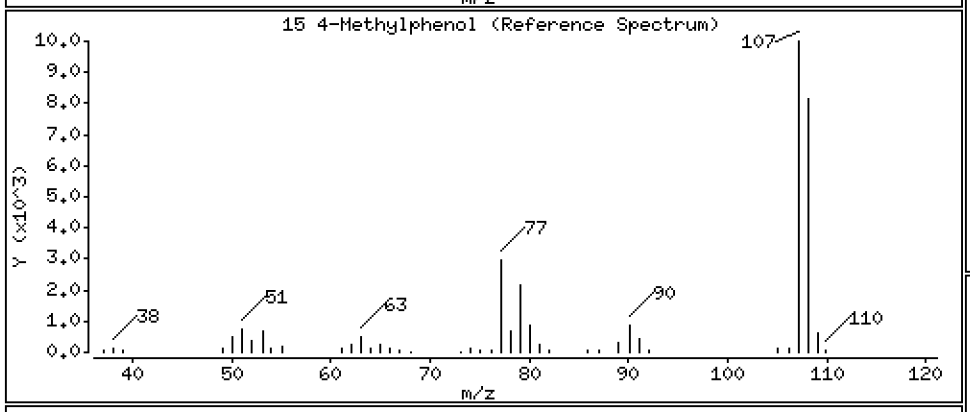
Column diameter: 0.25

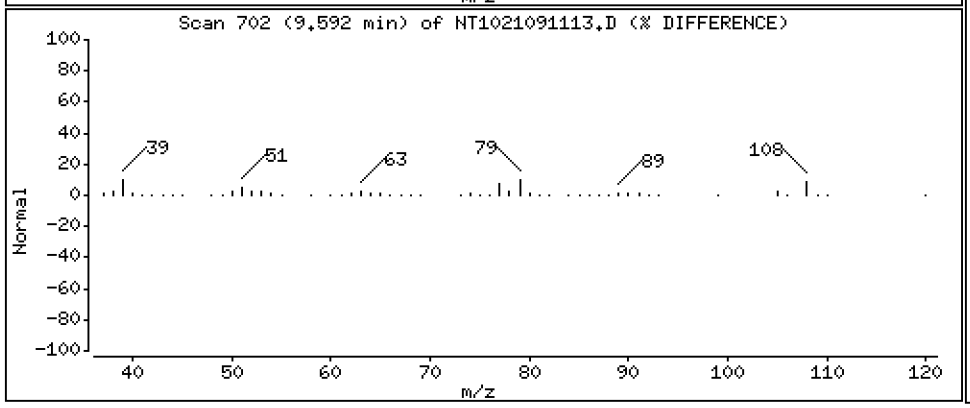
15 4-Methylphenol

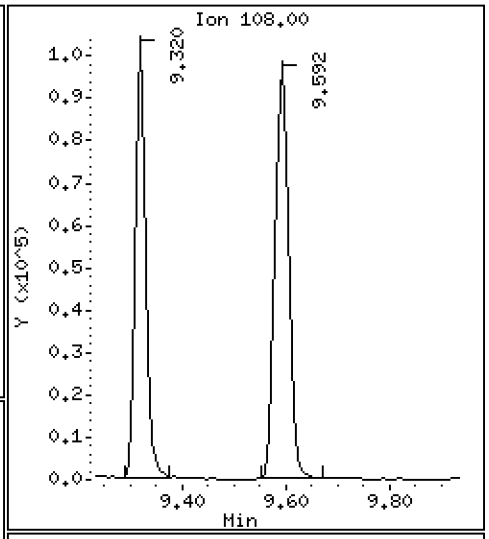
Concentration: 4.786 ug/mL

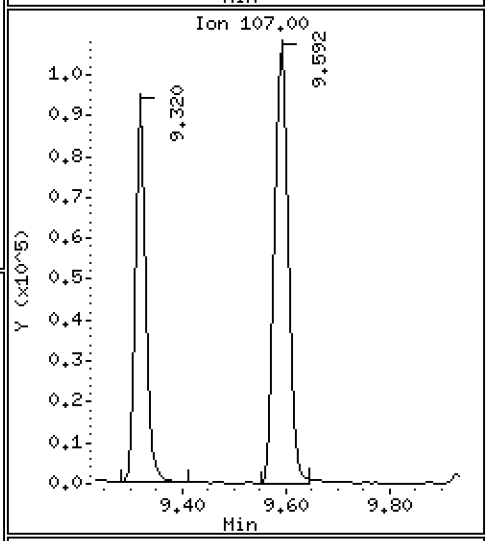


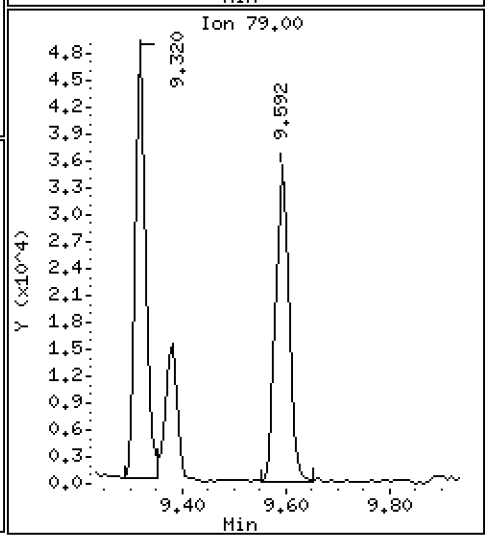












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

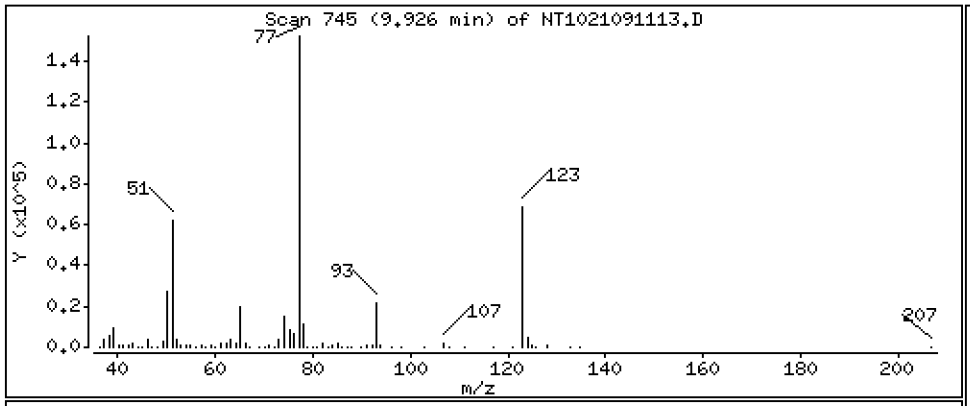
Operator: VTS

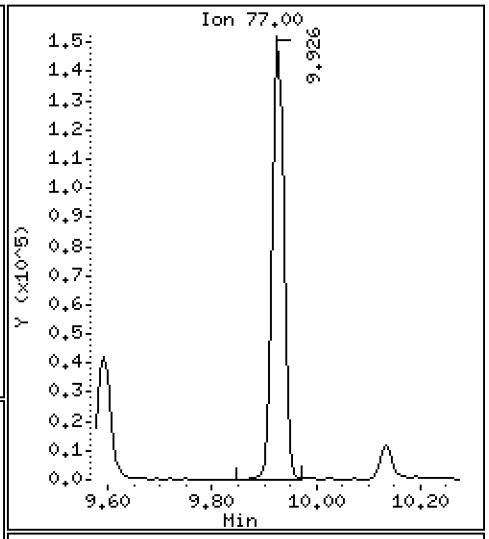
Column phase: ZB-5msi

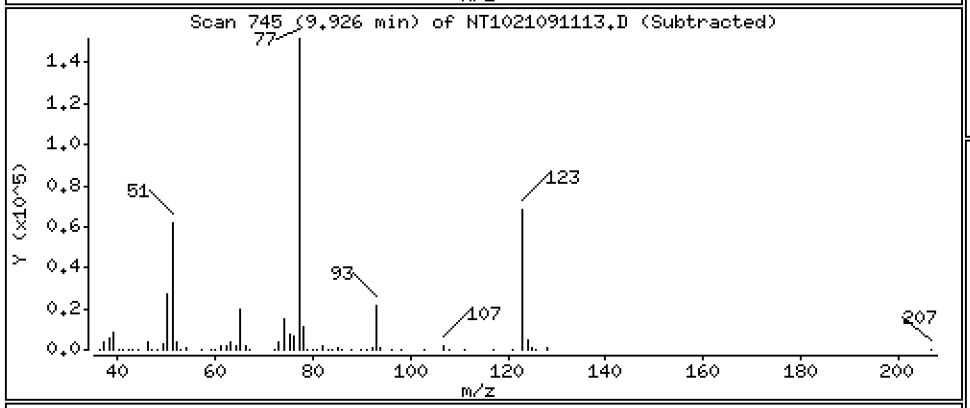
Column diameter: 0.25

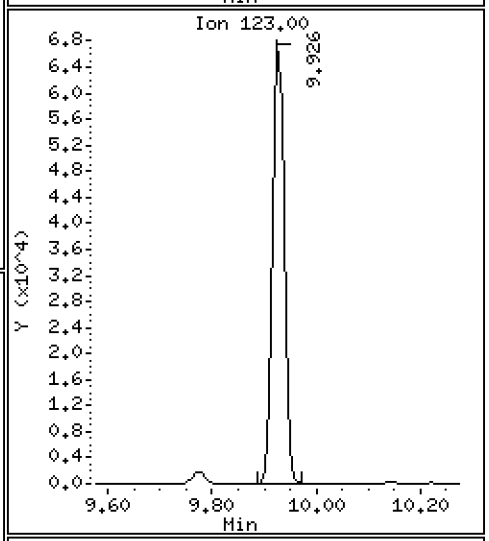
19 Nitrobenzene

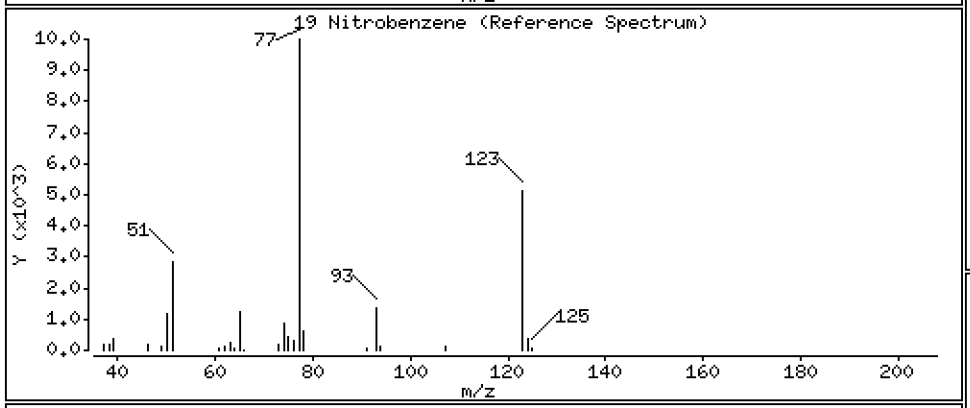
Concentration: 5.532 ug/mL

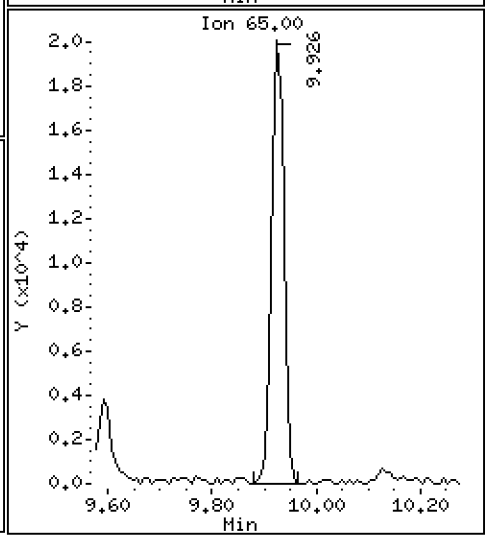


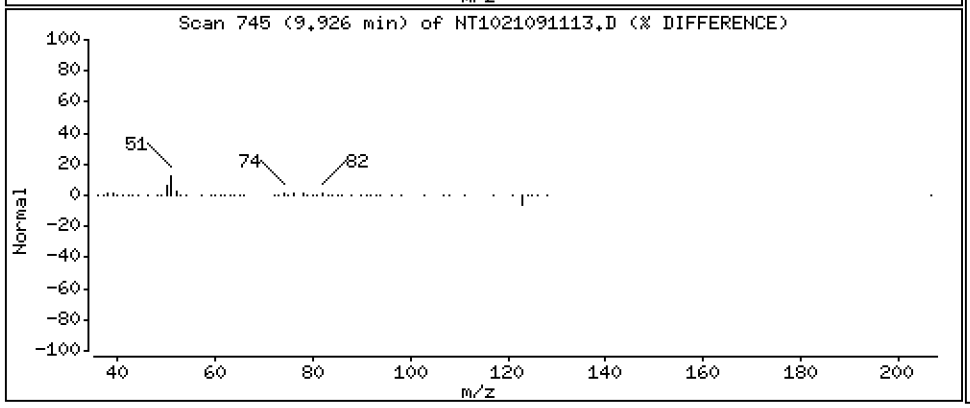












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

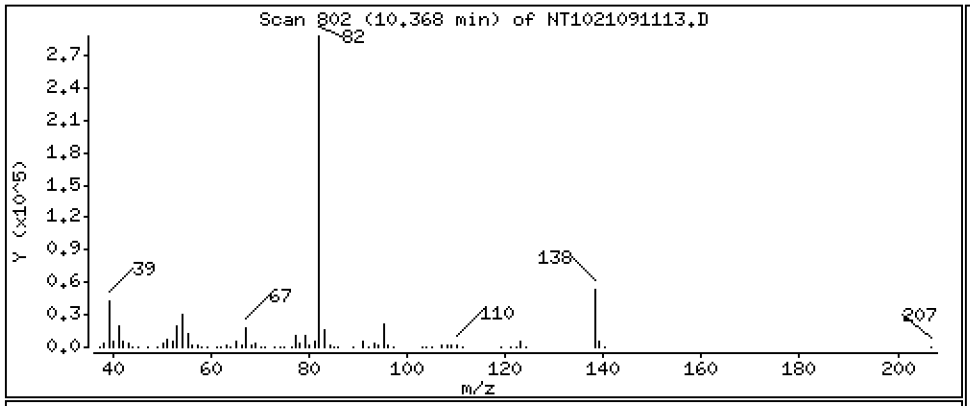
Operator: VTS

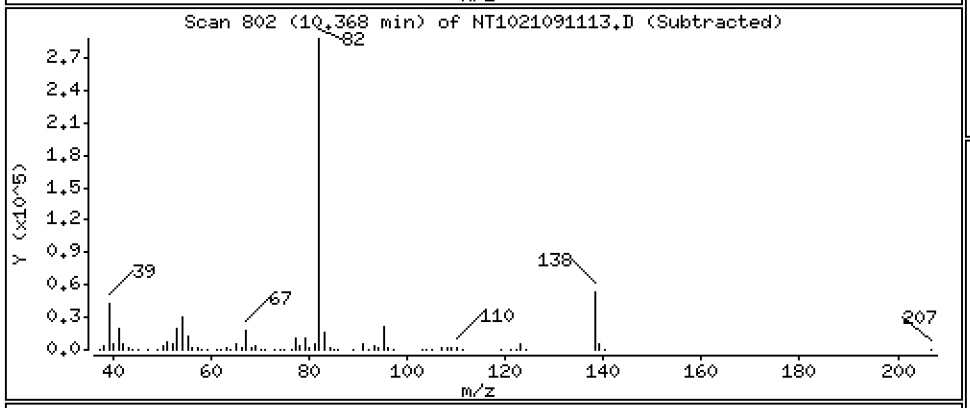
Column phase: ZB-5msi

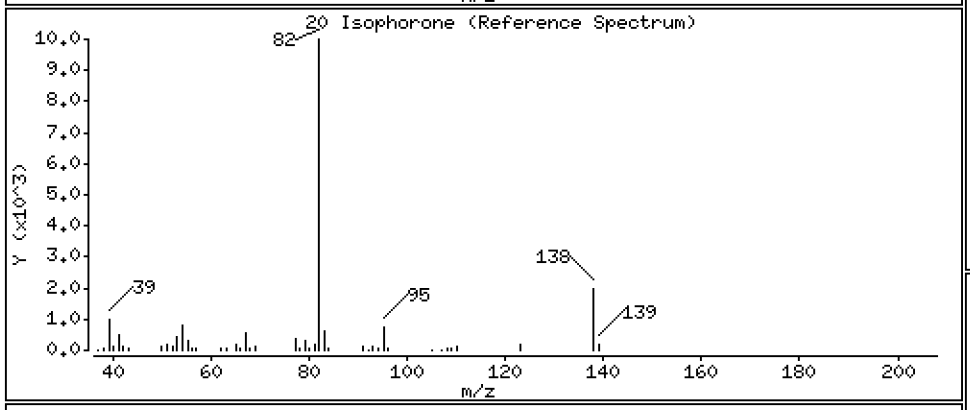
Column diameter: 0.25

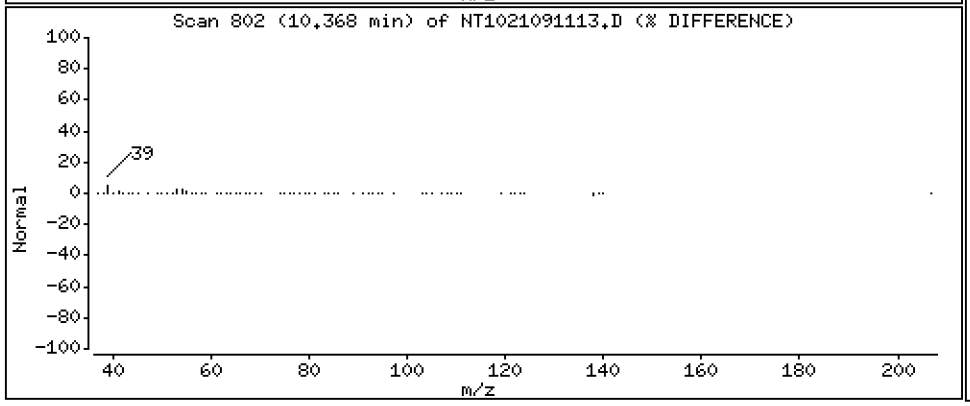
20 Isophorone

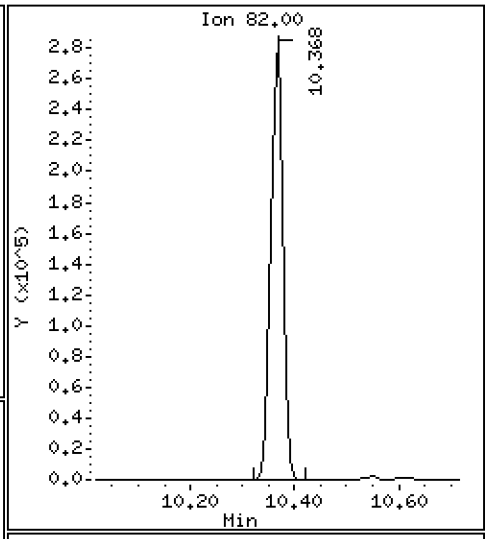
Concentration: 7.219 ug/mL

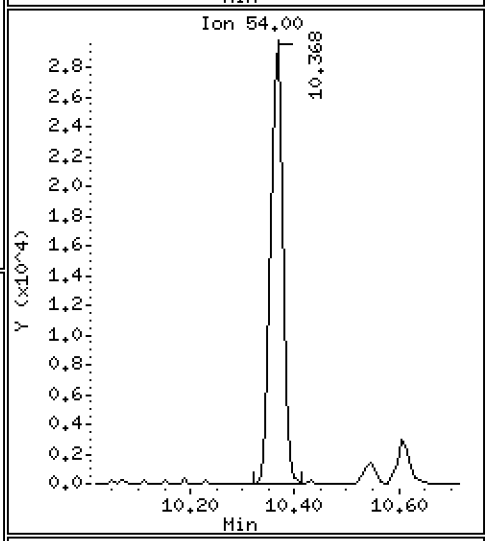


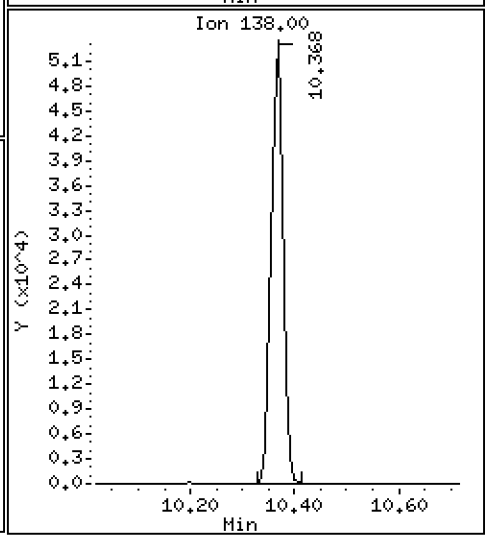












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

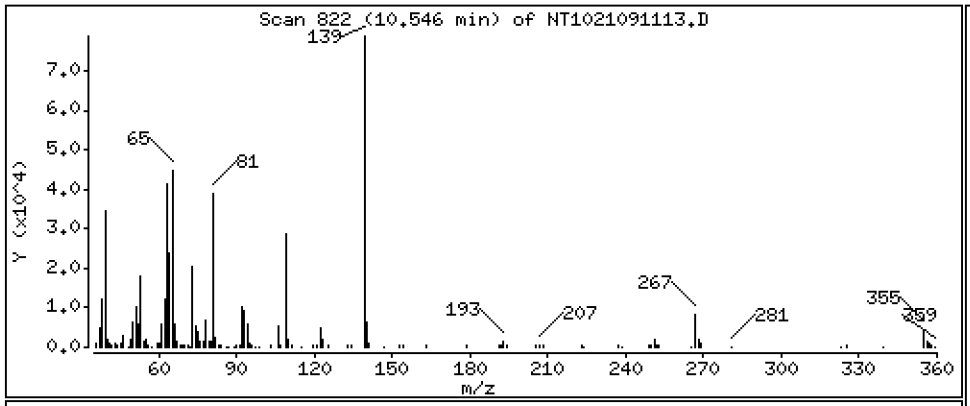
Operator: VTS

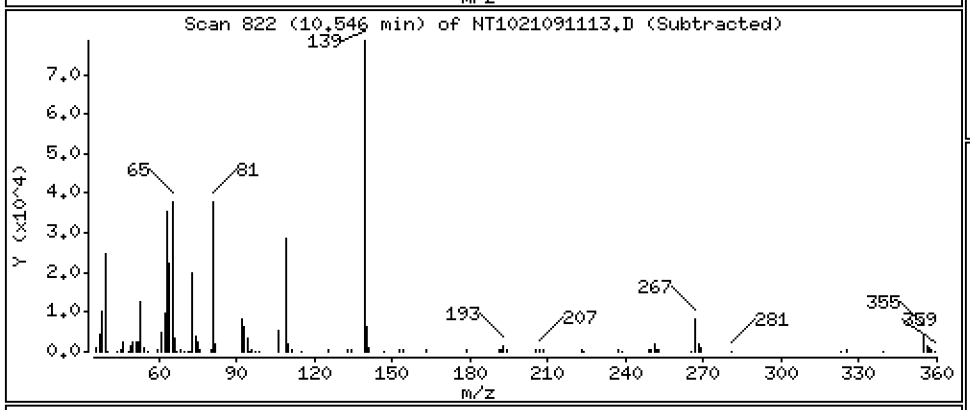
Column phase: ZB-5msi

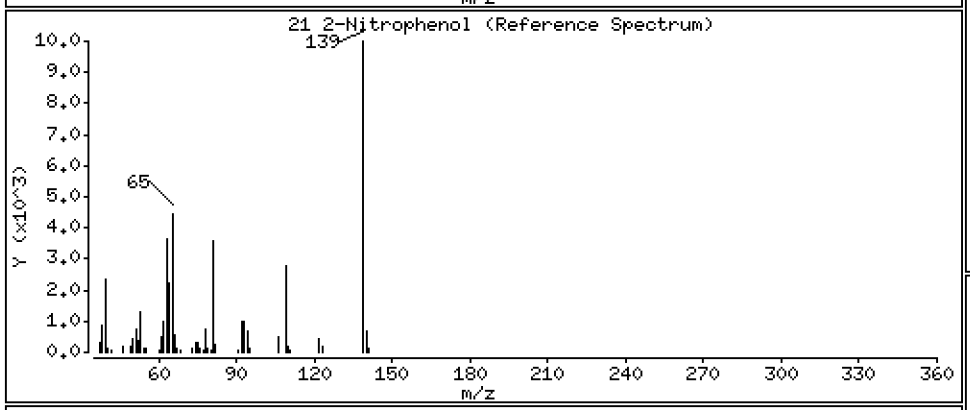
Column diameter: 0.25

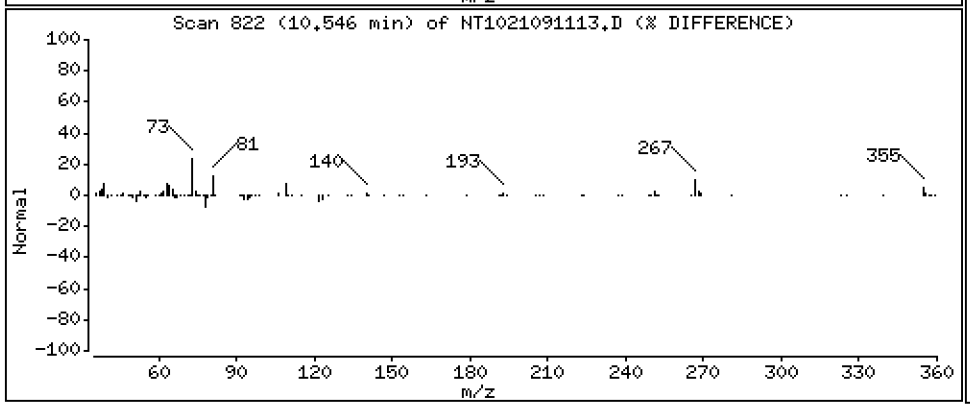
21 2-Nitrophenol

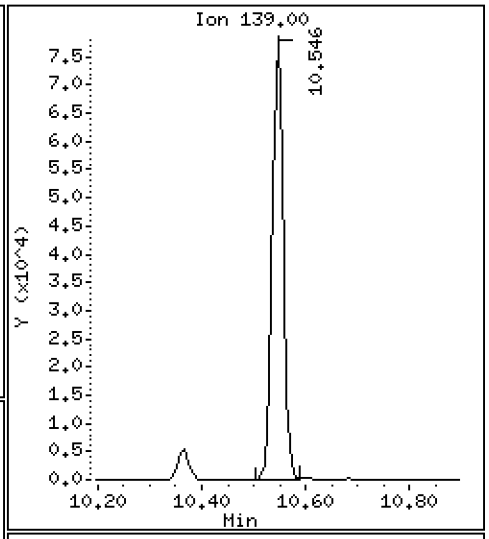
Concentration: 5.071 ug/mL

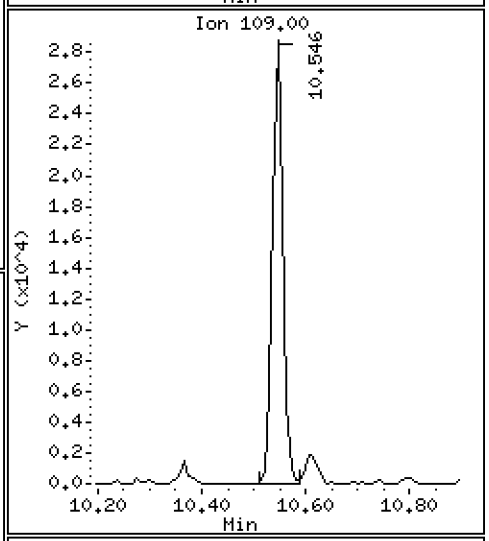


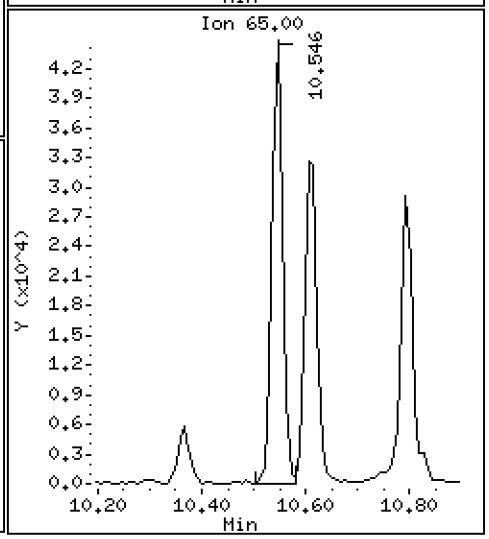












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

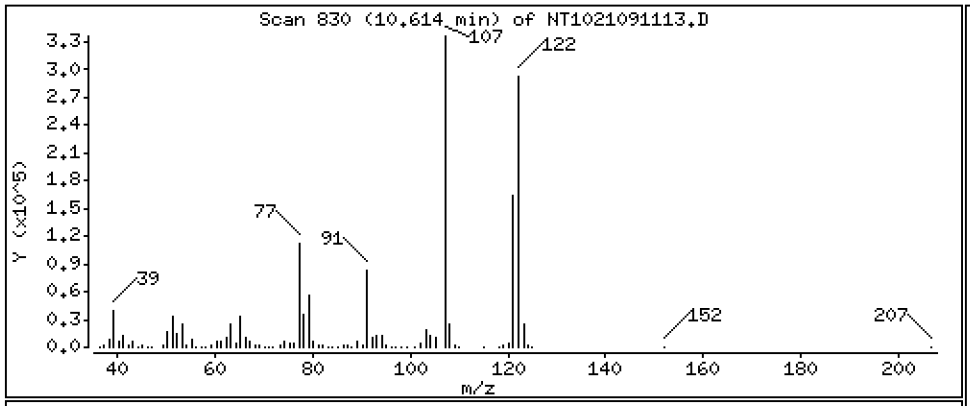
Operator: VTS

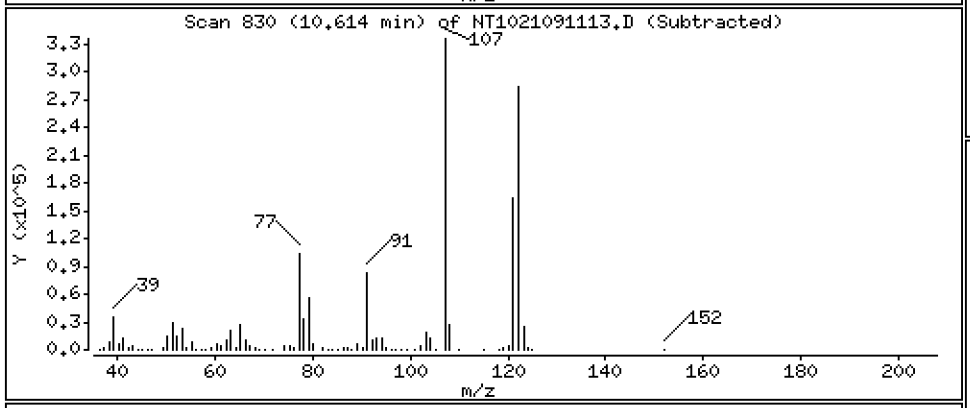
Column phase: ZB-5msi

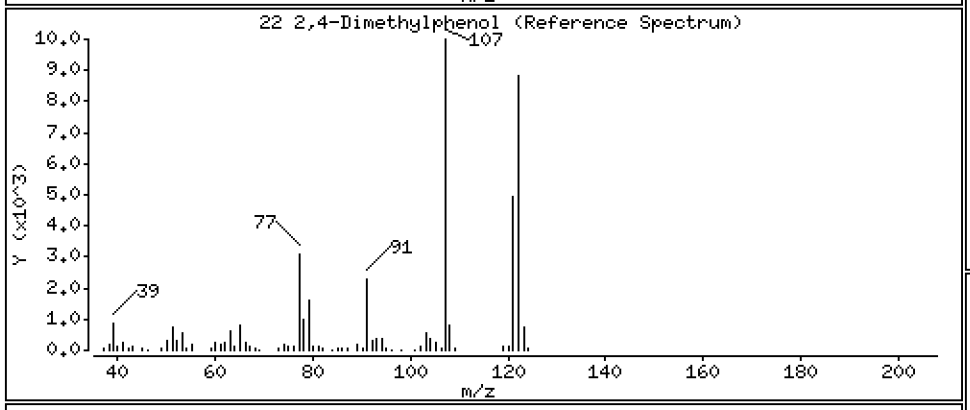
Column diameter: 0.25

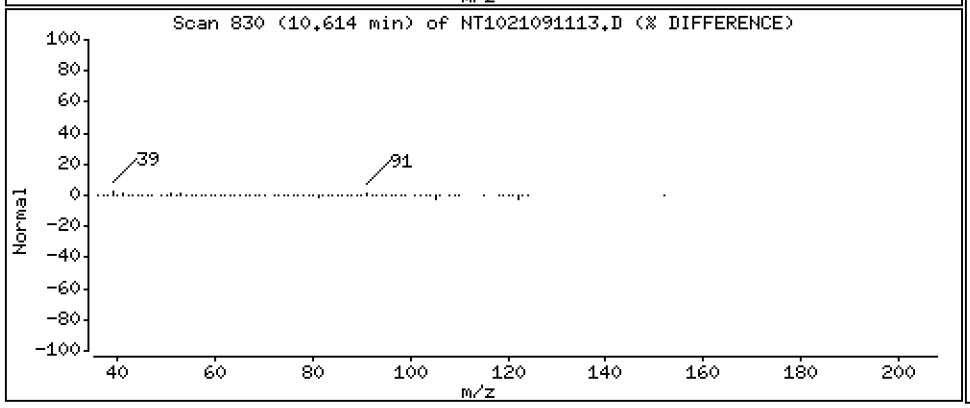
22 2,4-Dimethylphenol

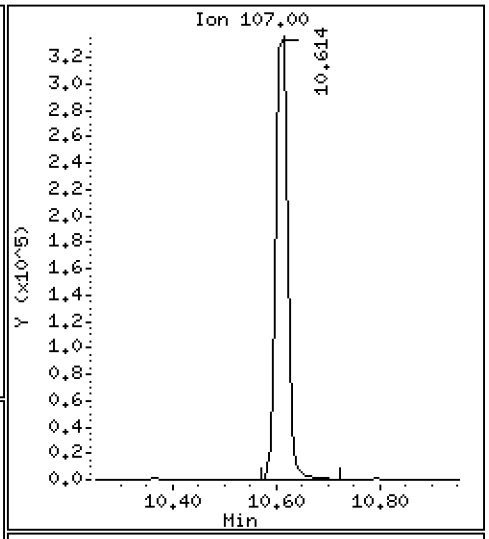
Concentration: 15.48 ug/mL

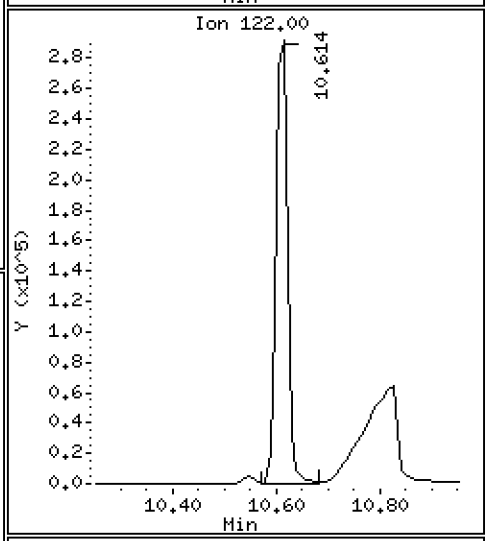


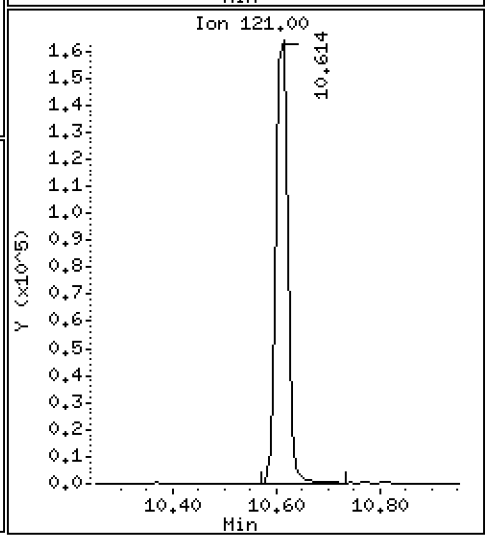












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

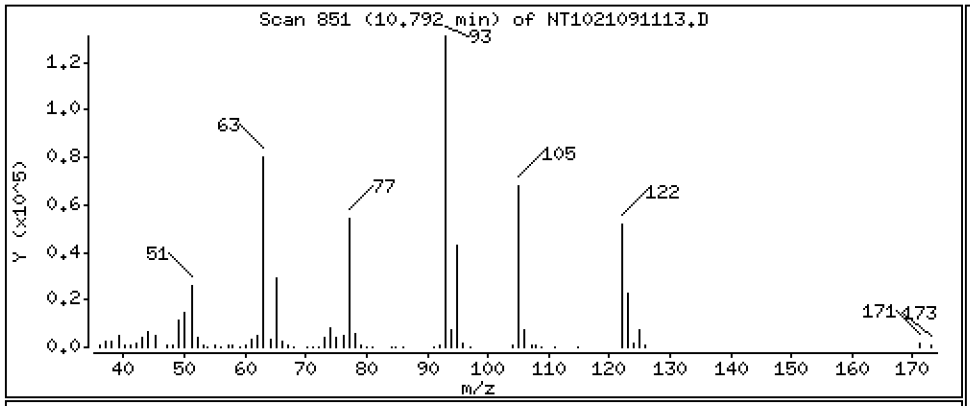
Operator: VTS

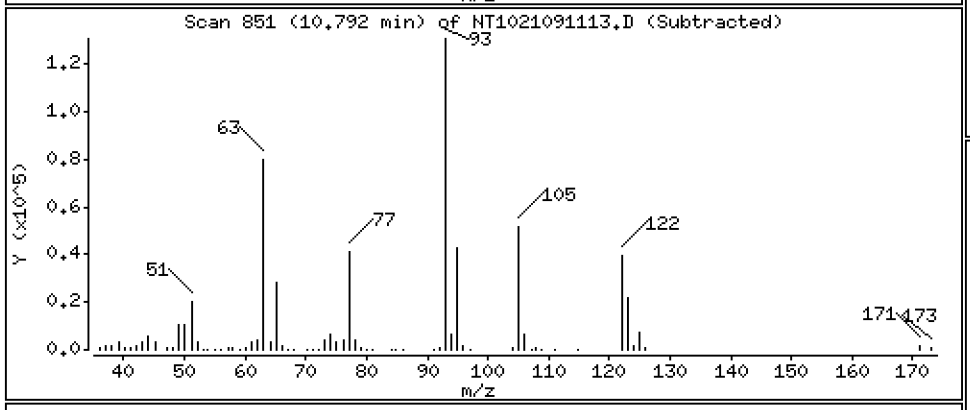
Column phase: ZB-5msi

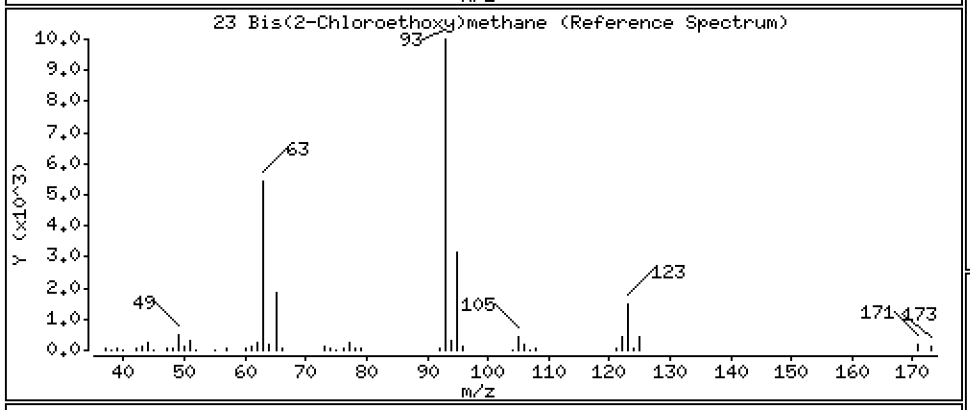
Column diameter: 0.25

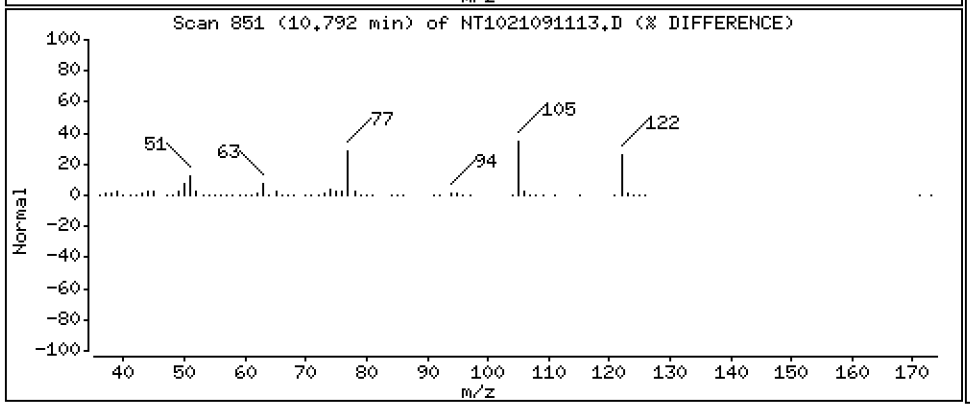
23 Bis(2-Chloroethoxy)methane

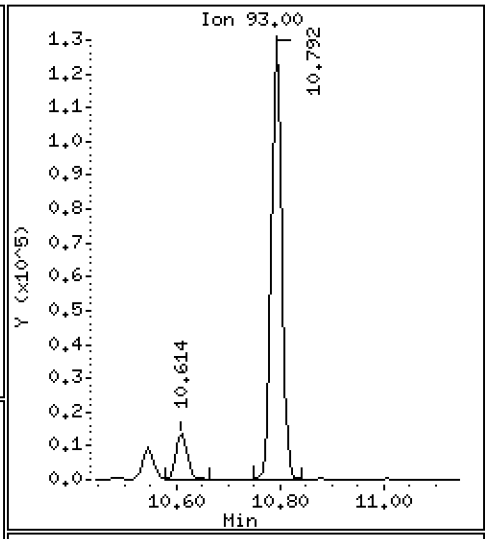
Concentration: 4.880 ug/mL

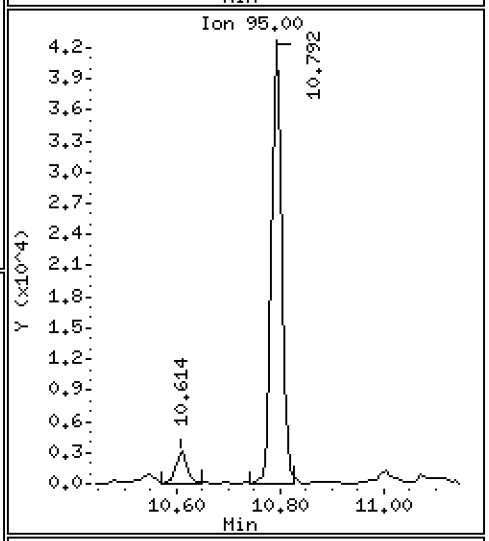


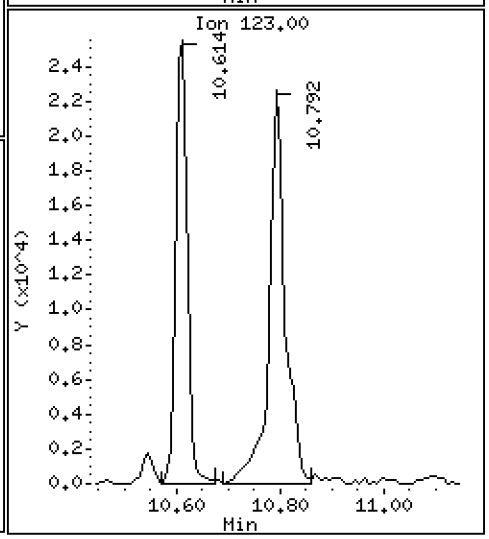












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

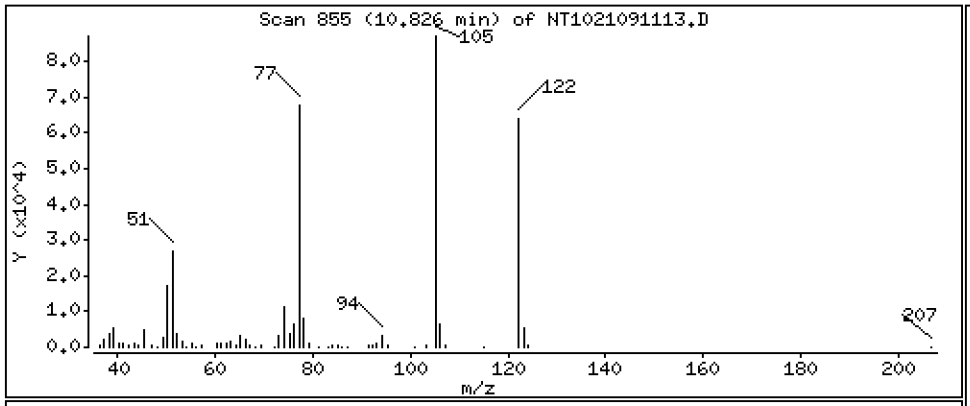
Operator: VTS

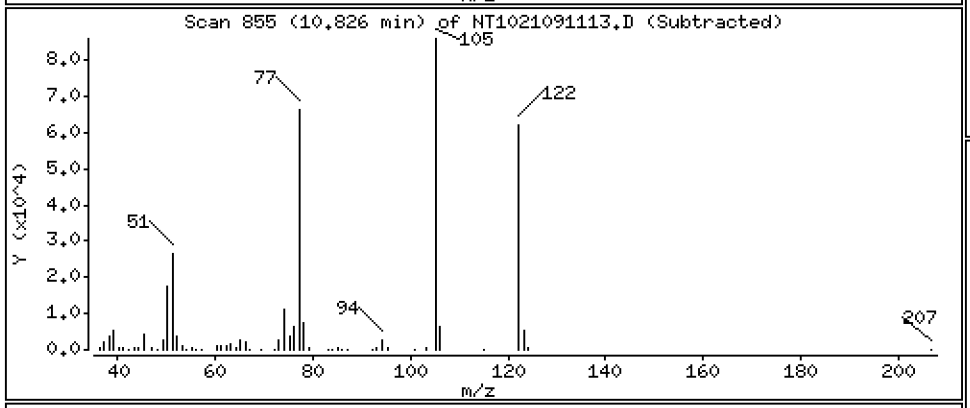
Column phase: ZB-5msi

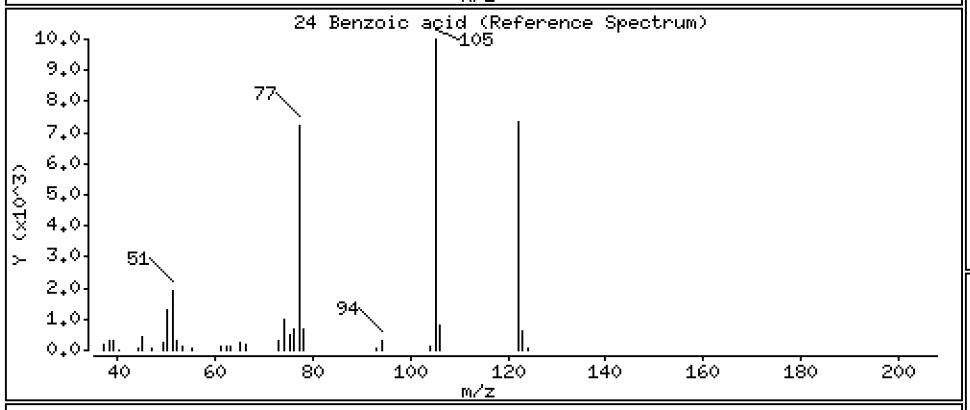
Column diameter: 0.25

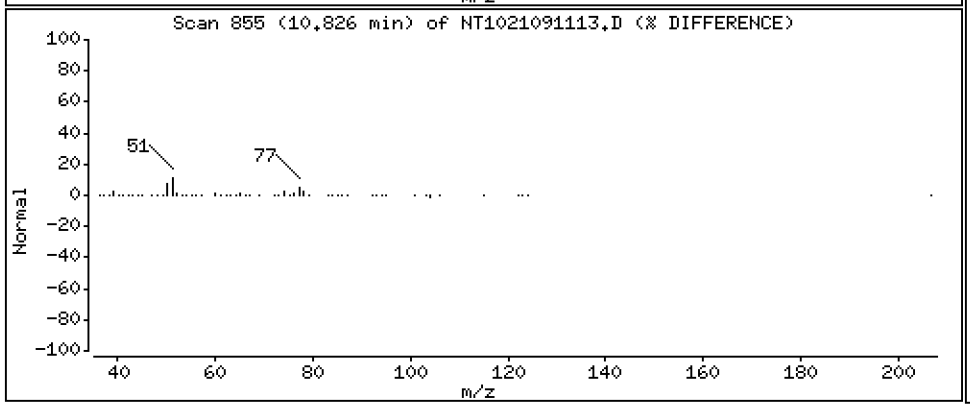
24 Benzoic acid

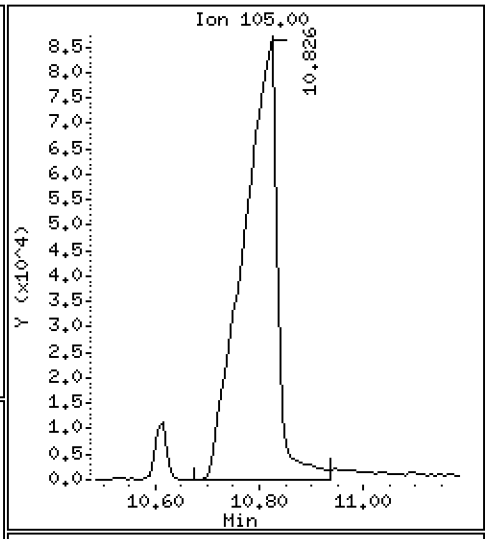
Concentration: 21.87 ug/mL

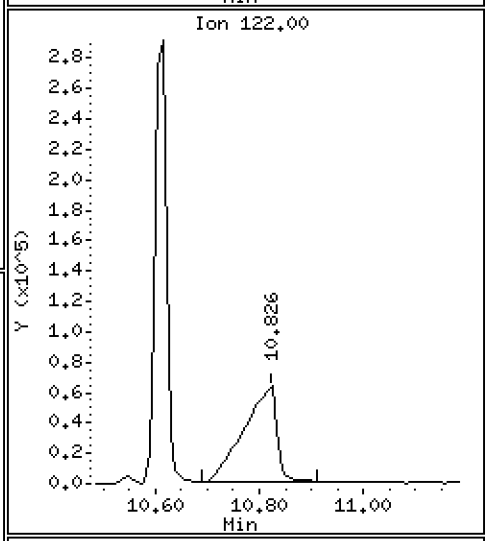


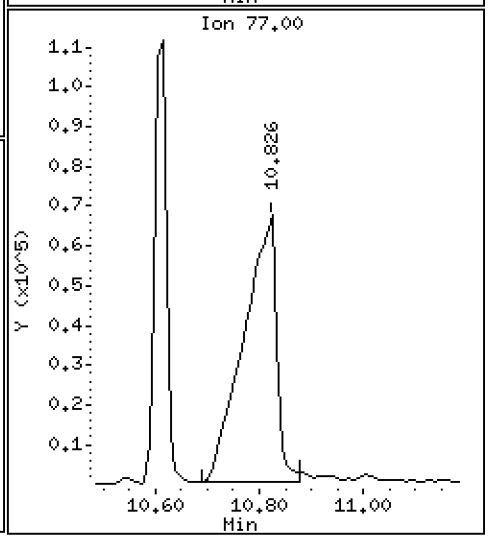












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

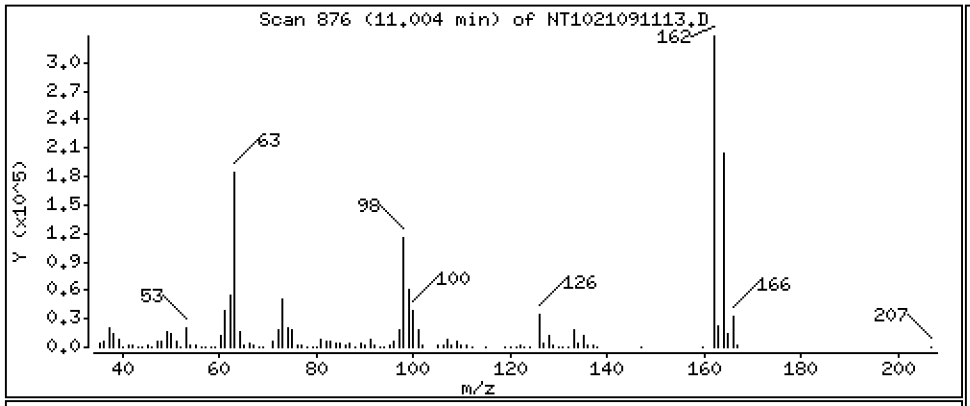
Operator: VTS

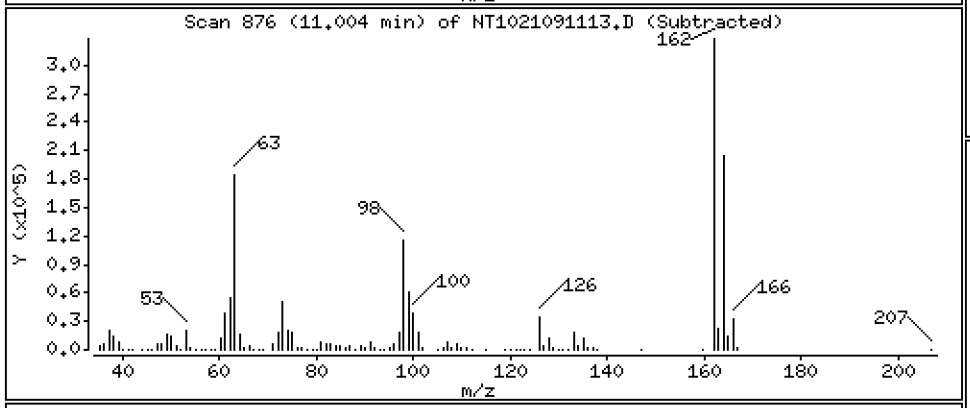
Column phase: ZB-5msi

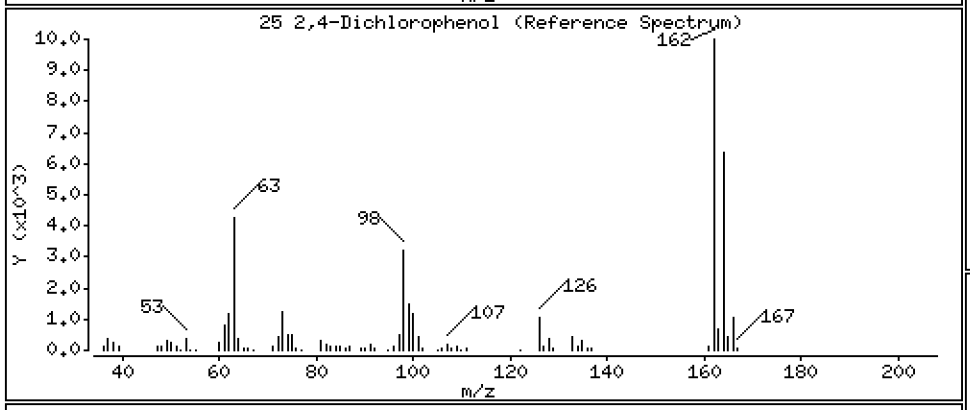
Column diameter: 0.25

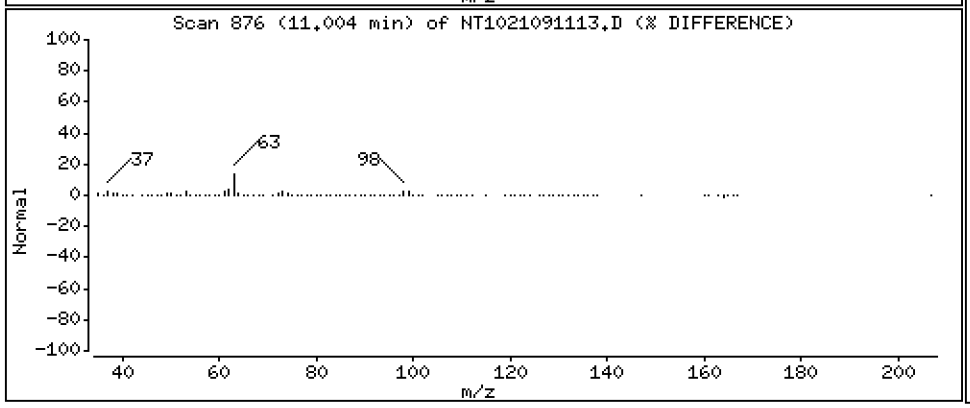
25 2,4-Dichlorophenol

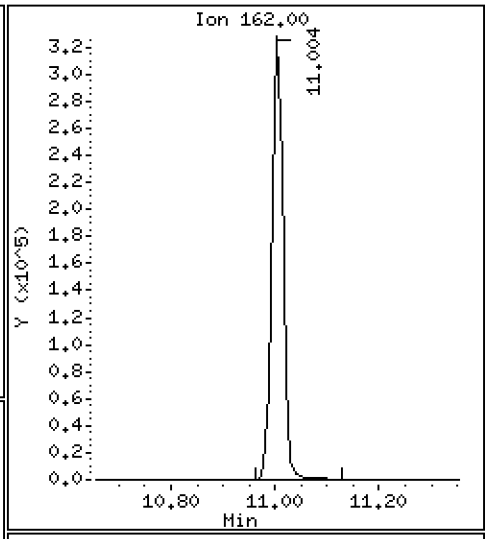
Concentration: 14.87 ug/mL

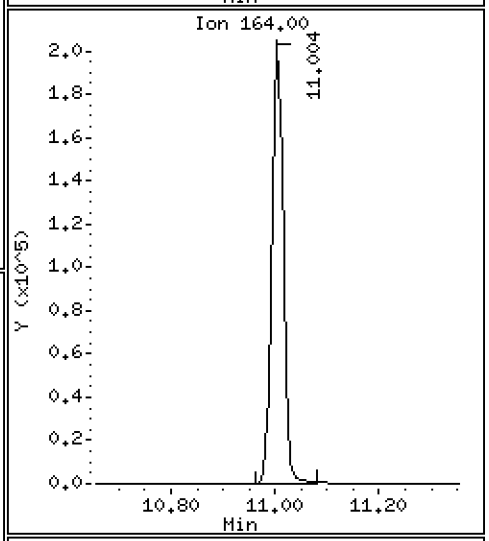


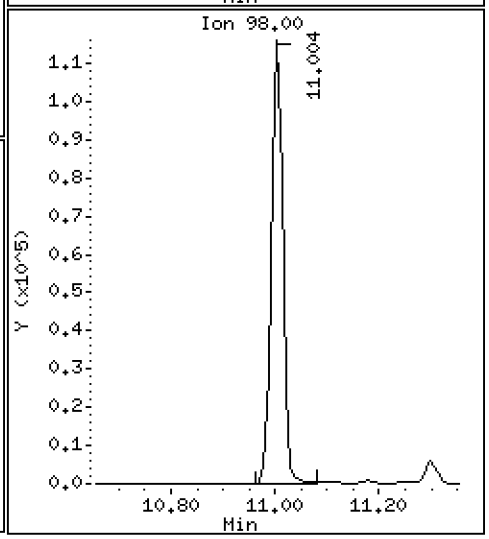












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

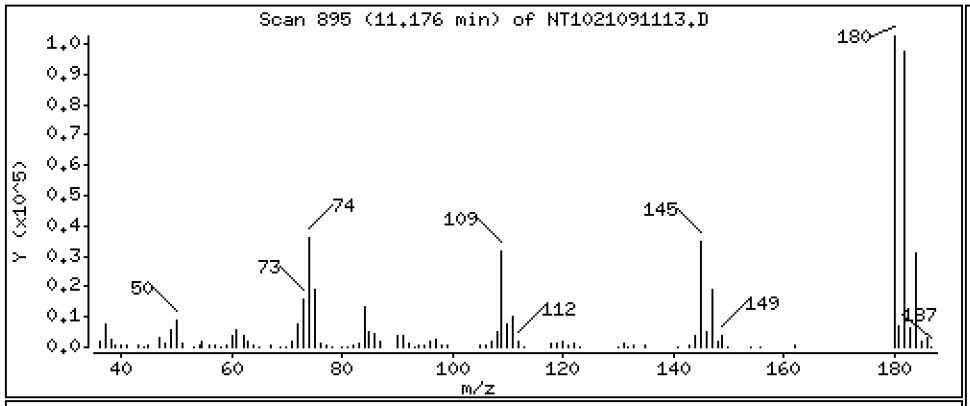
Operator: VTS

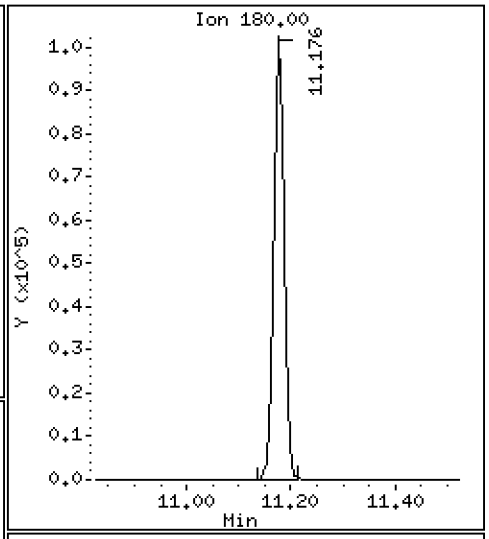
Column phase: ZB-5msi

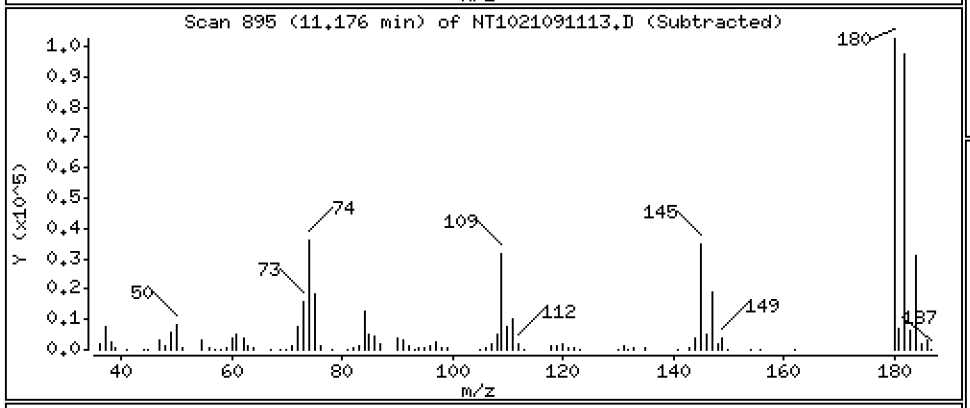
Column diameter: 0.25

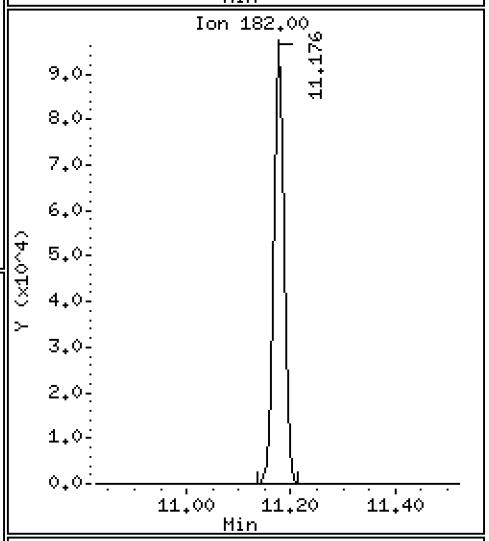
26 1,2,4-Trichlorobenzene

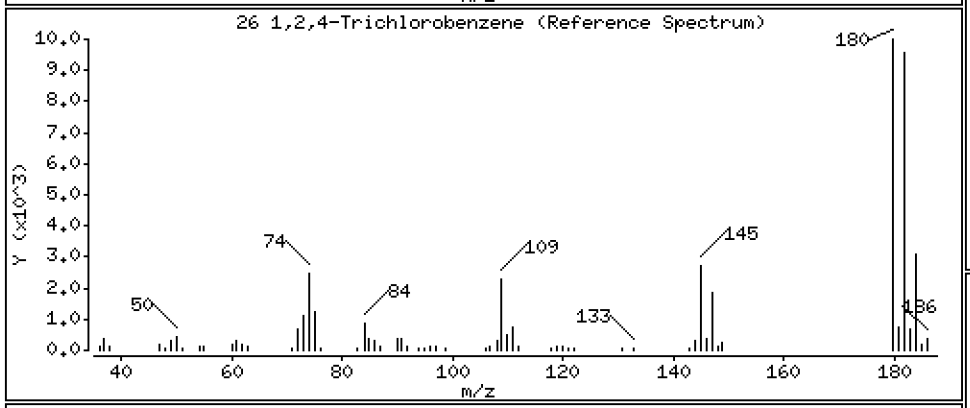
Concentration: 4.253 ug/mL

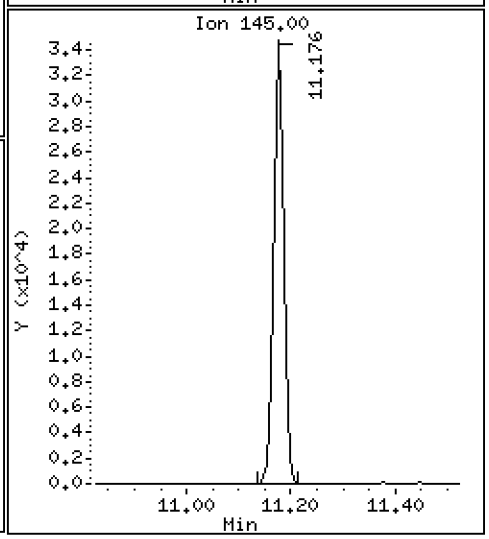


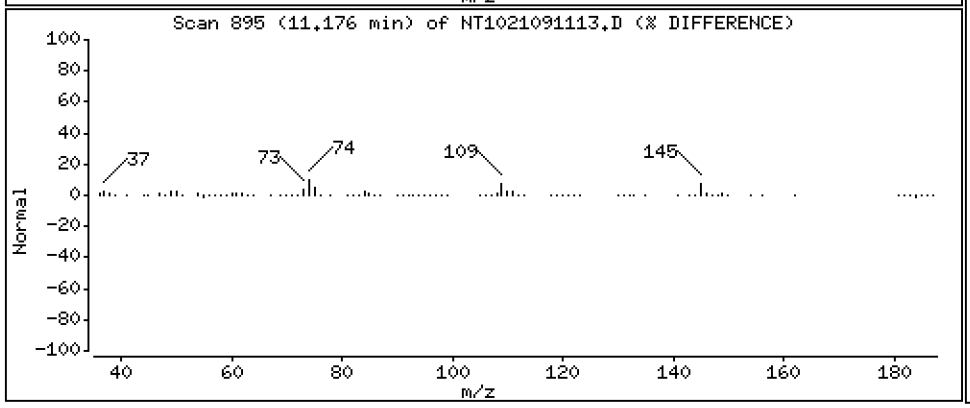












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

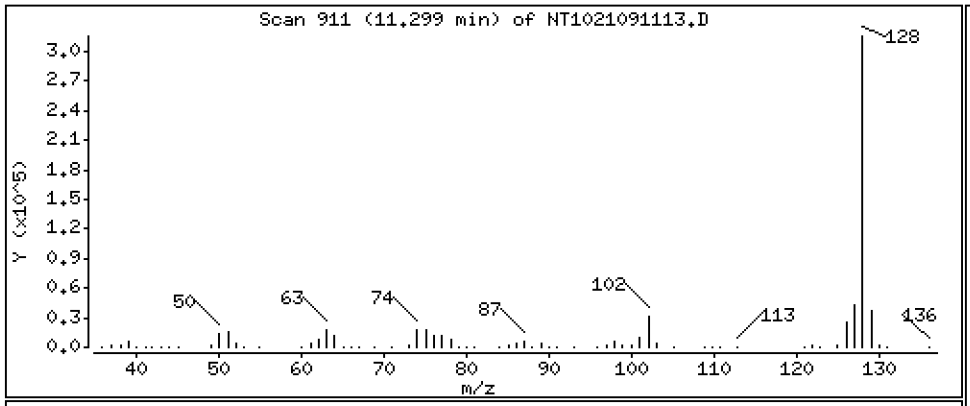
Operator: VTS

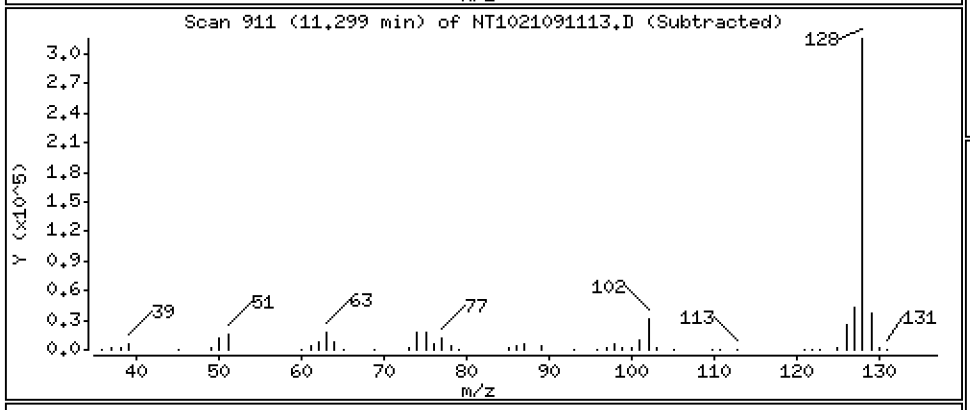
Column phase: ZB-5msi

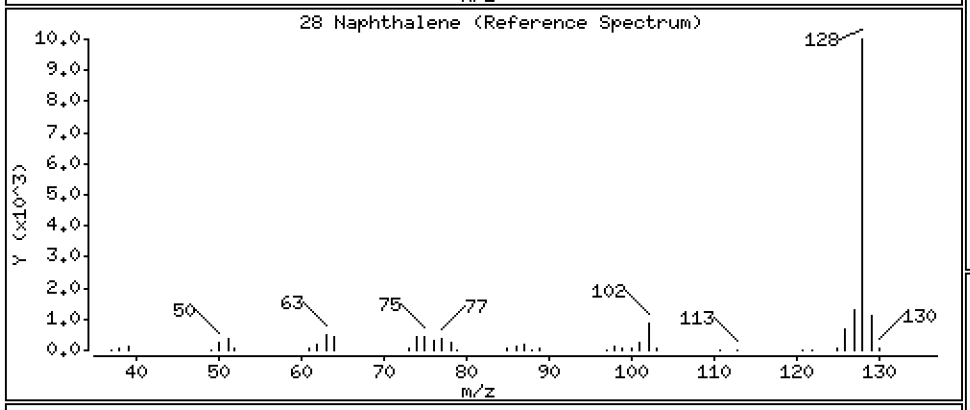
Column diameter: 0.25

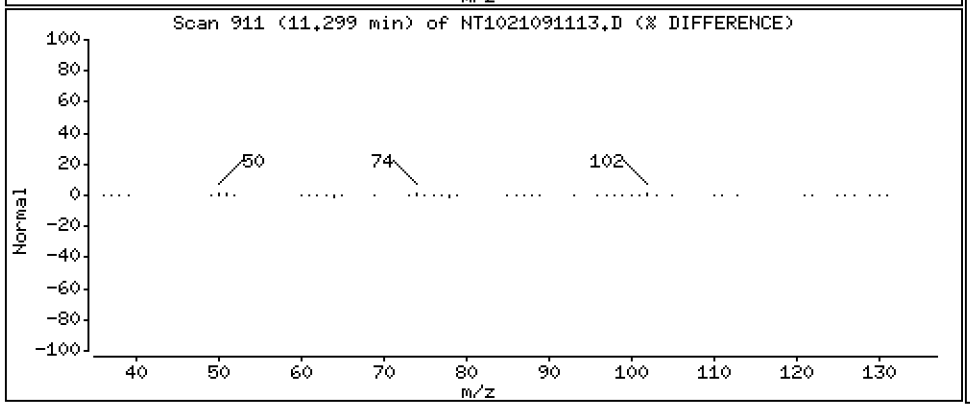
28 Naphthalene

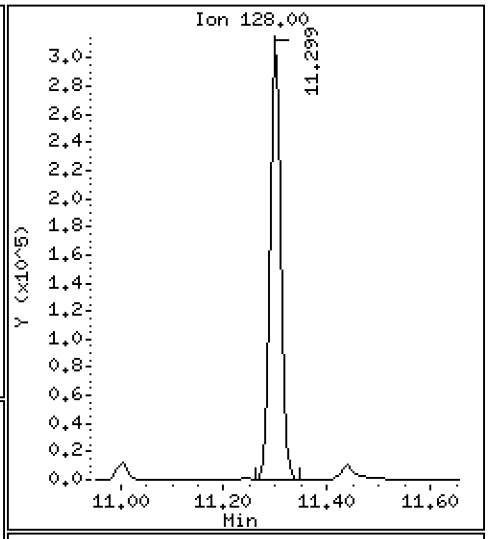
Concentration: 4.514 ug/mL

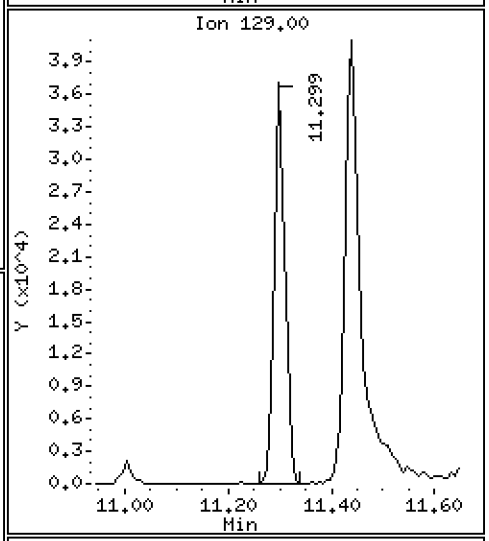


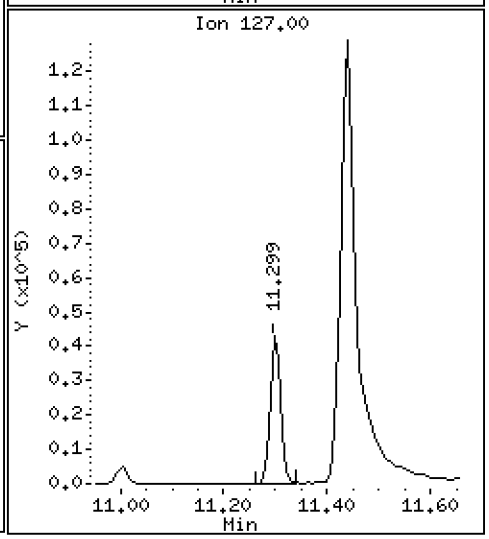












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

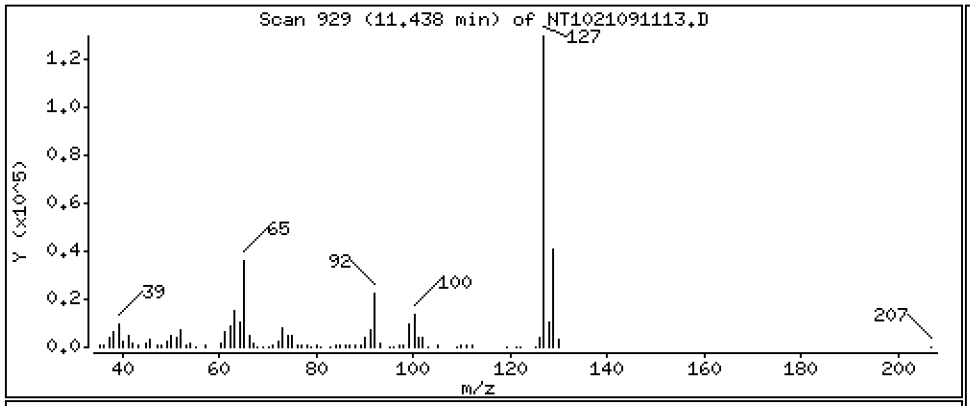
Operator: VTS

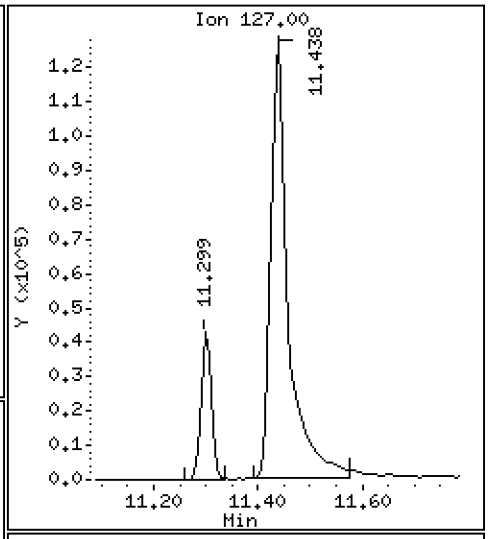
Column phase: ZB-5msi

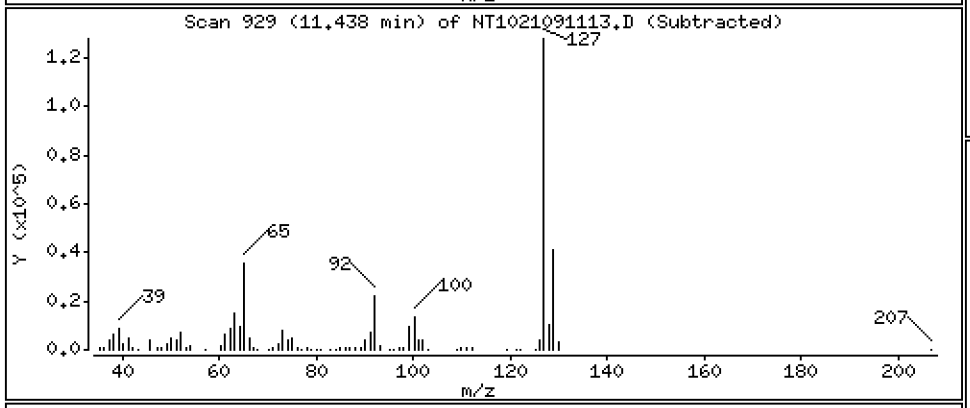
Column diameter: 0.25

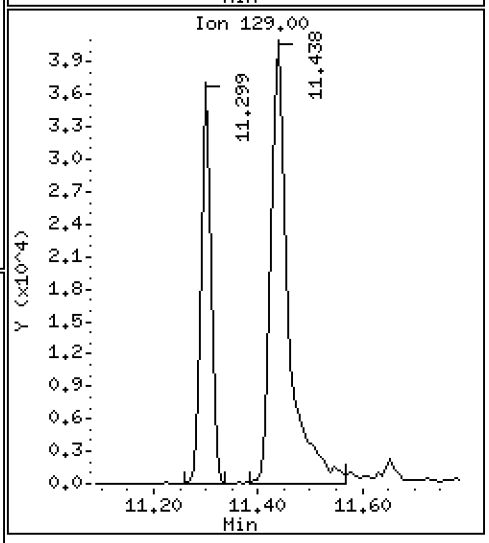
29 4-Chloroaniline

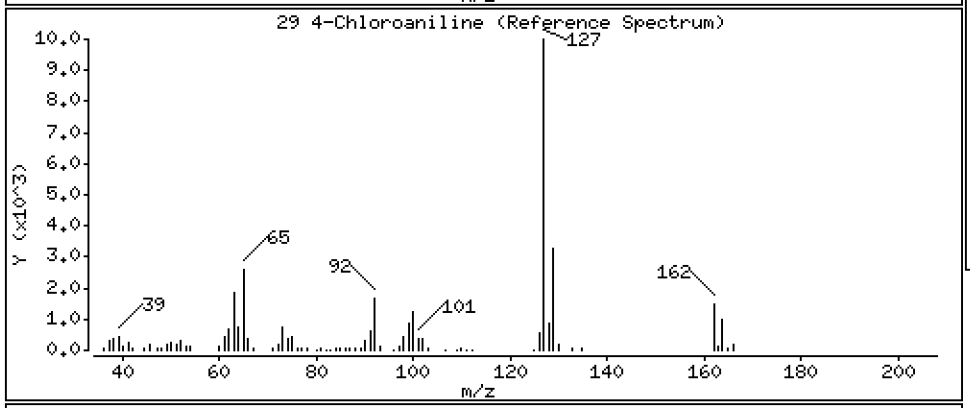
Concentration: 6.379 ug/mL

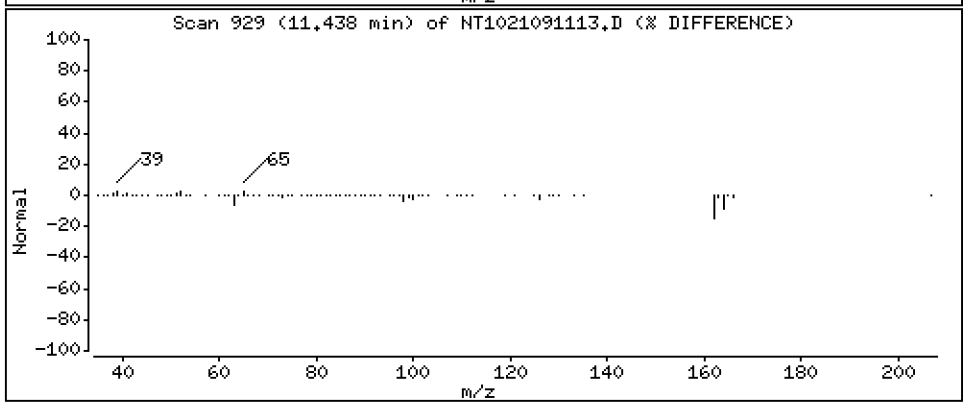












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

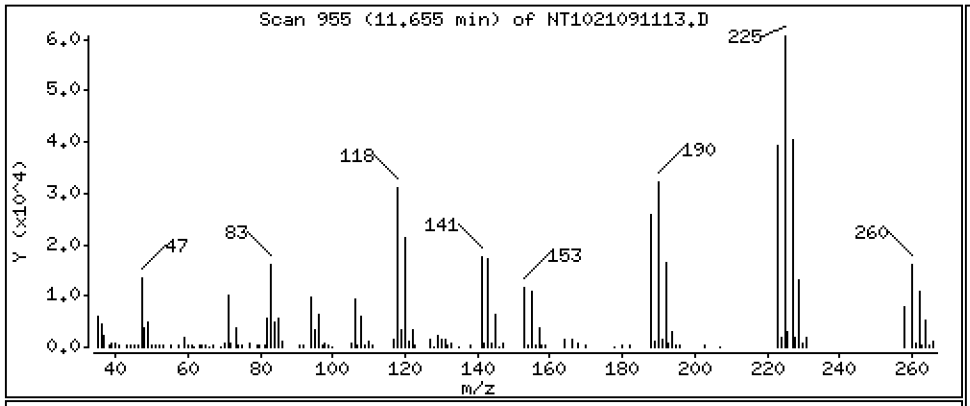
Operator: VTS

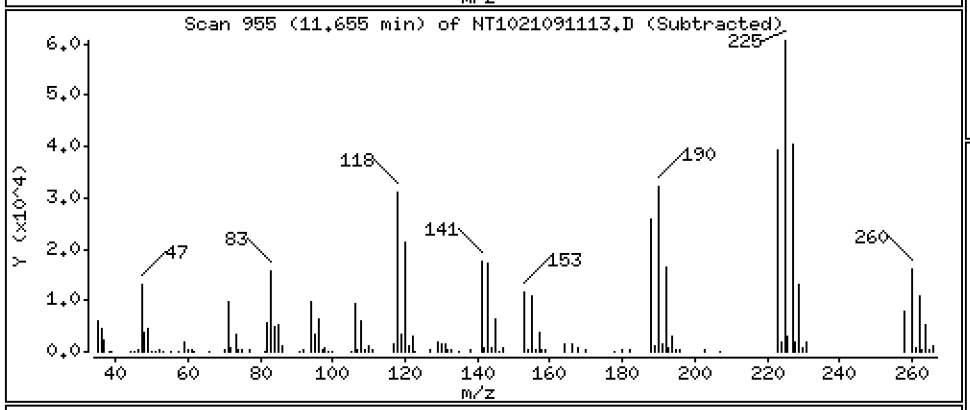
Column phase: ZB-5msi

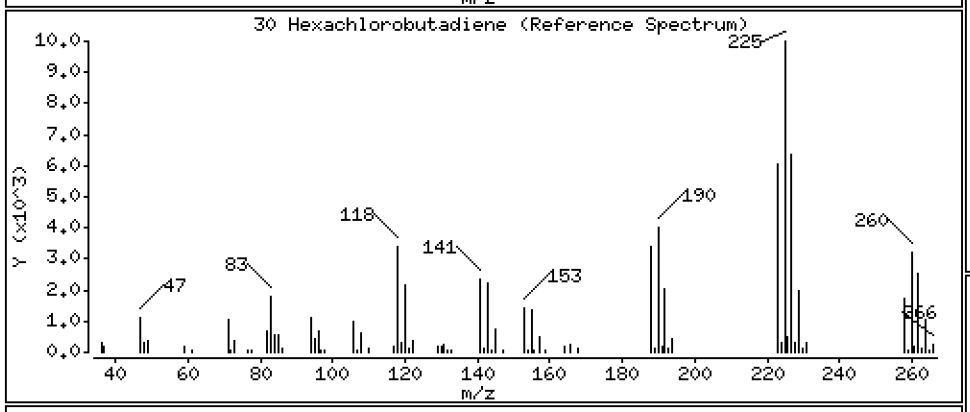
Column diameter: 0.25

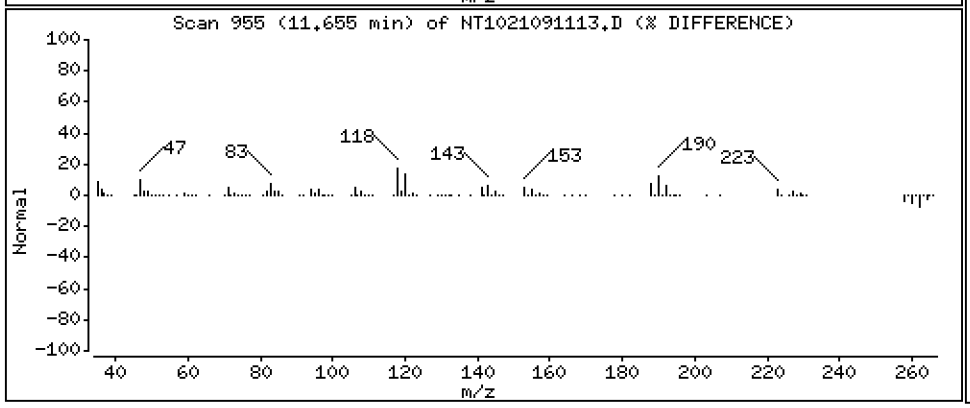
30 Hexachlorobutadiene

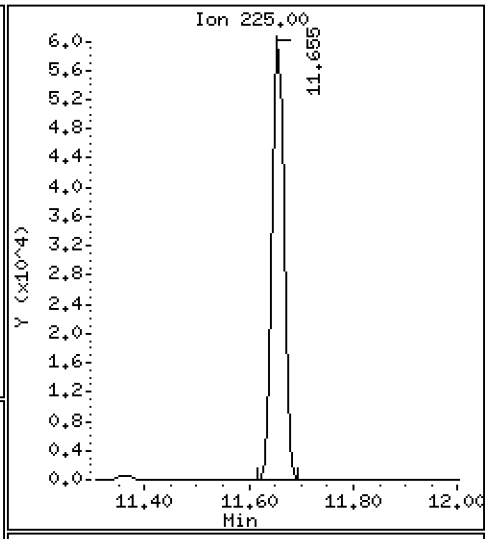
Concentration: 4.765 ug/mL

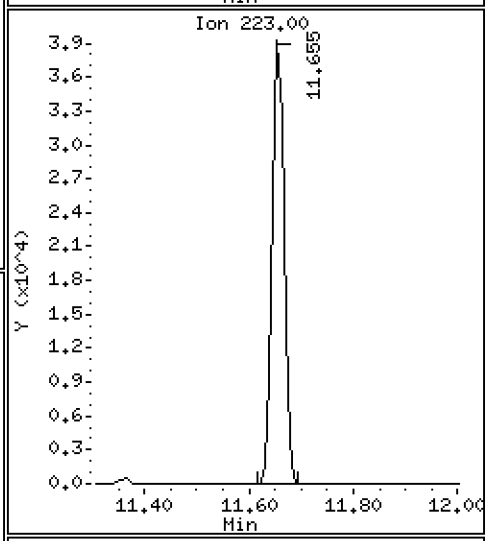


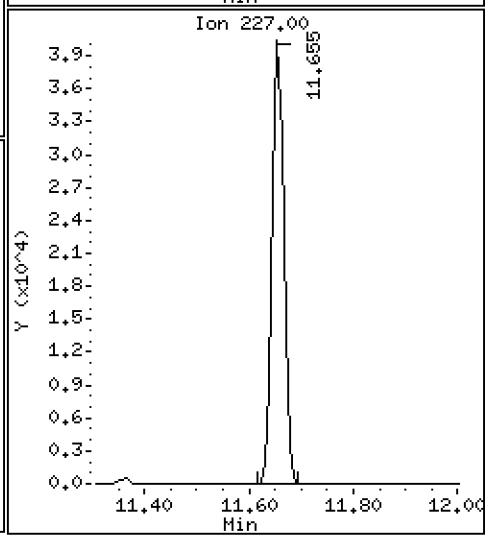












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

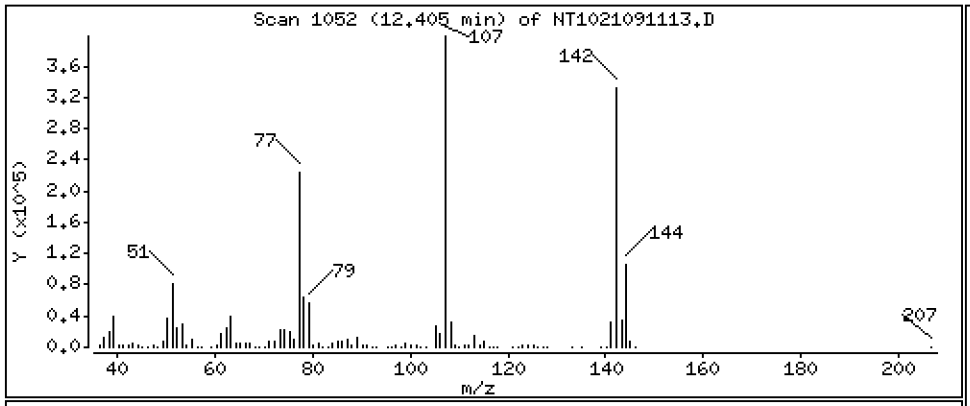
Operator: VTS

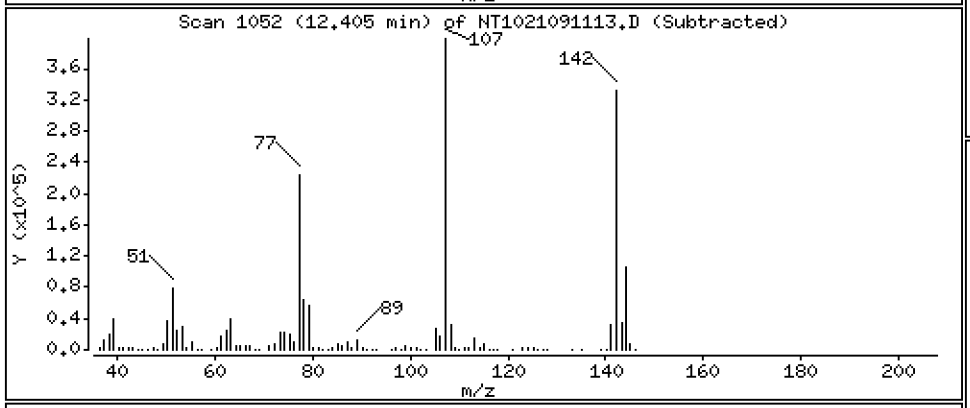
Column phase: ZB-5msi

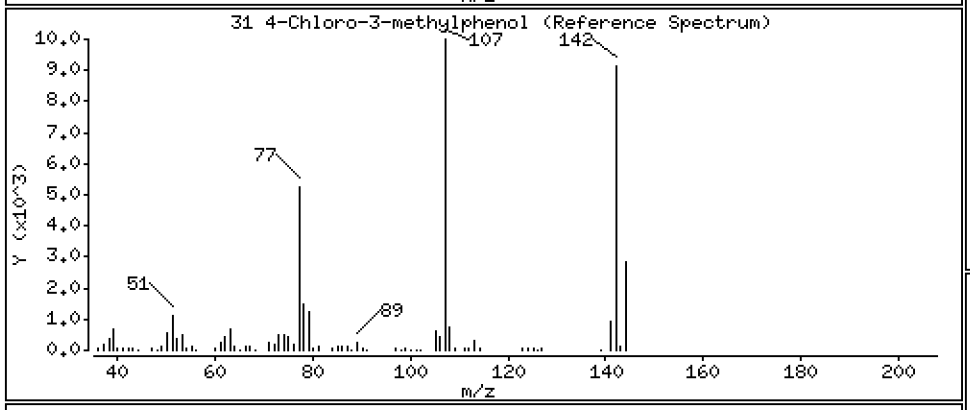
Column diameter: 0.25

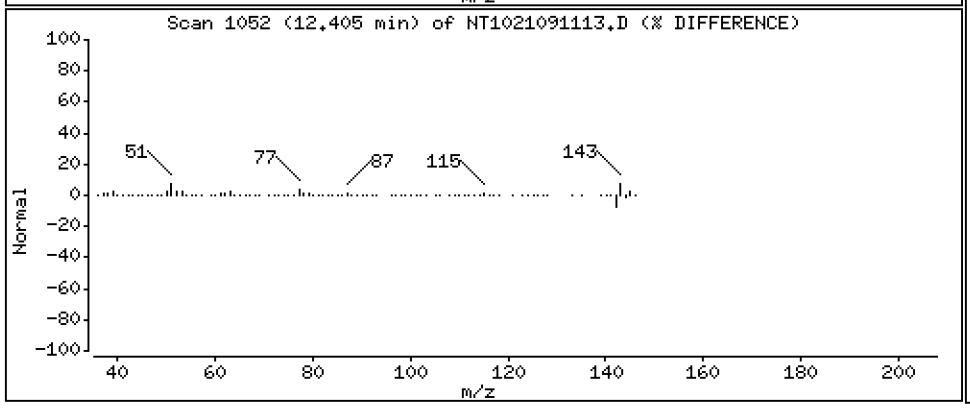
31 4-Chloro-3-methylphenol

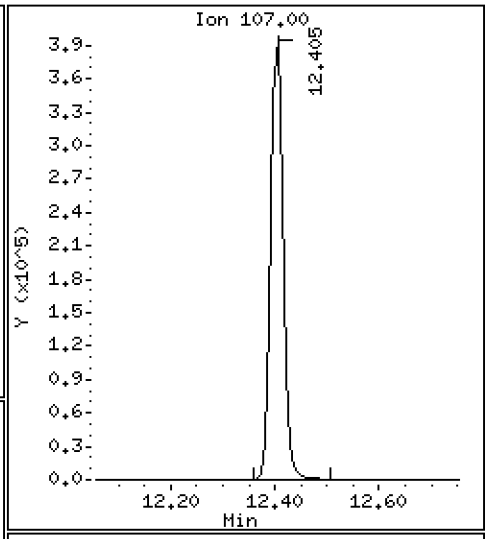
Concentration: 17.26 ug/mL

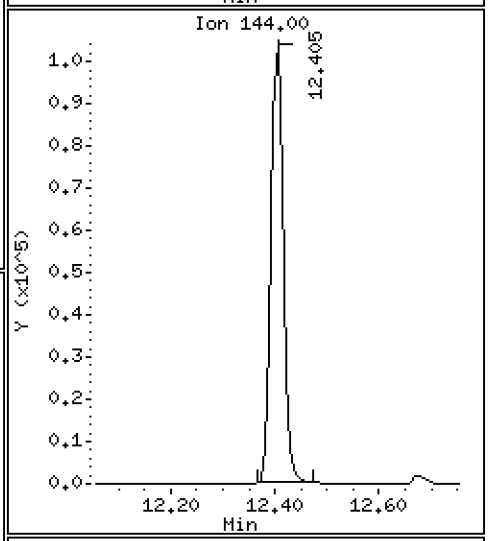


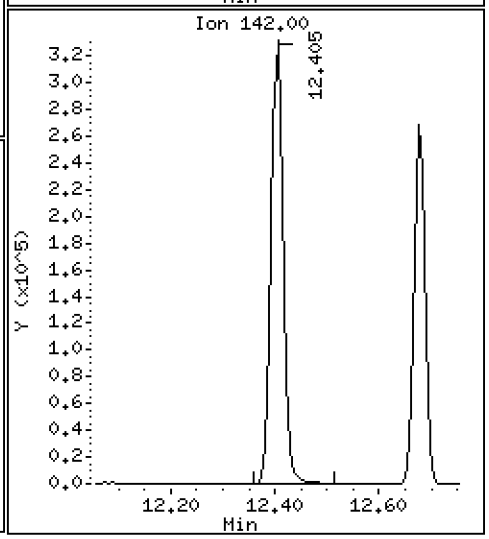












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

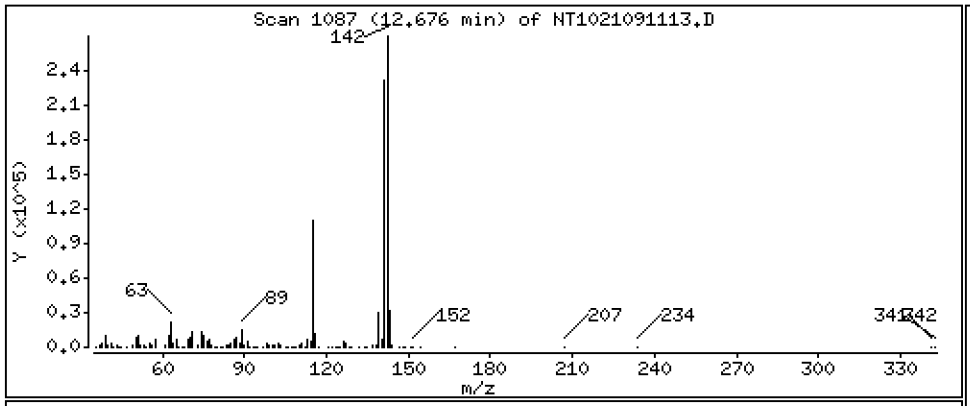
Operator: VTS

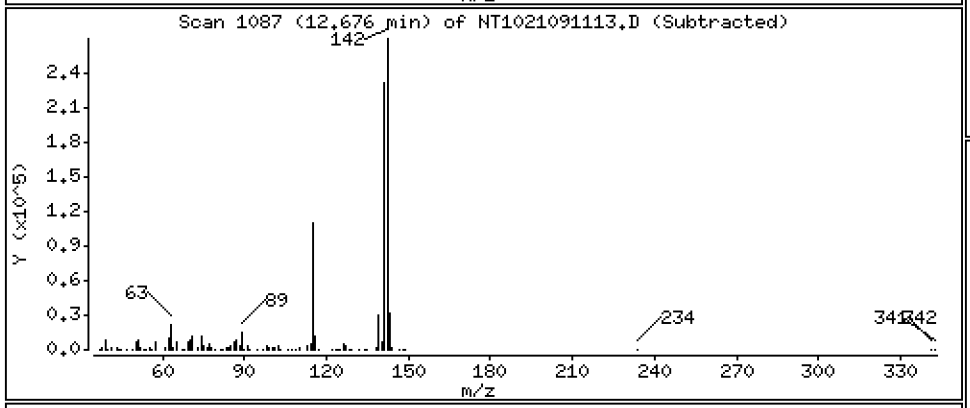
Column phase: ZB-5msi

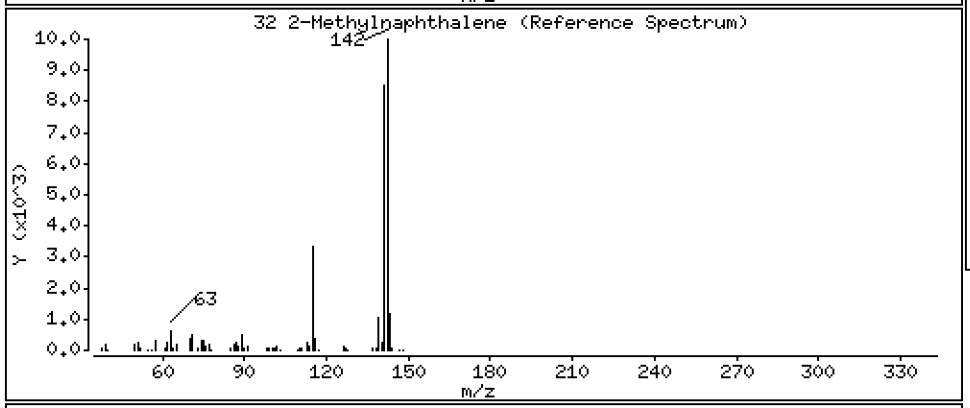
Column diameter: 0.25

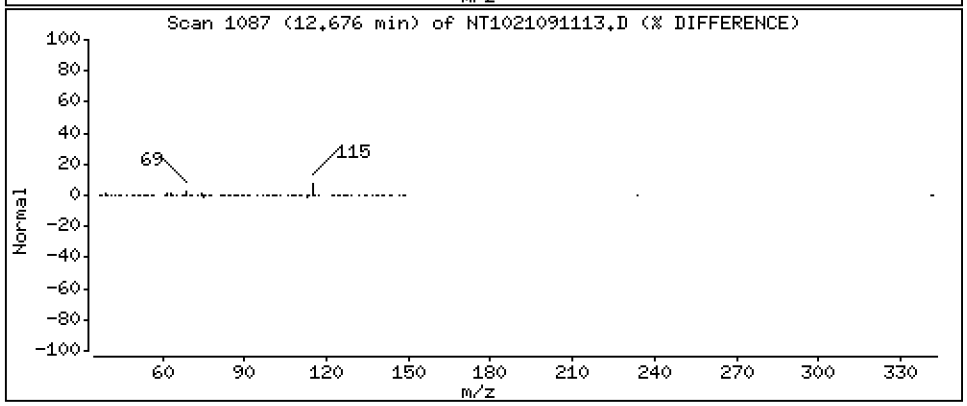
32 2-Methylnaphthalene

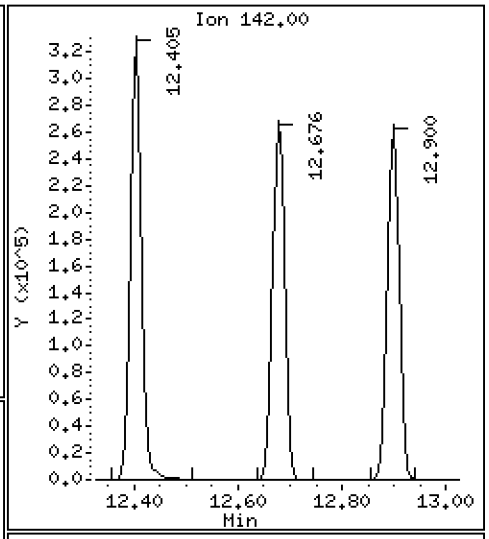
Concentration: 4.253 ug/mL

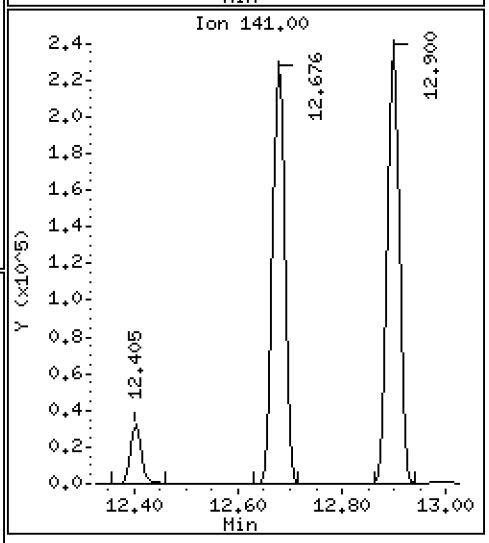












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

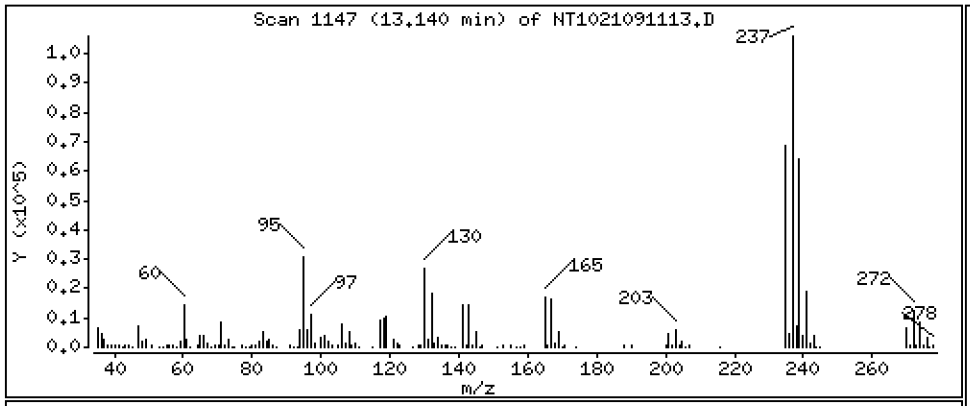
Operator: VTS

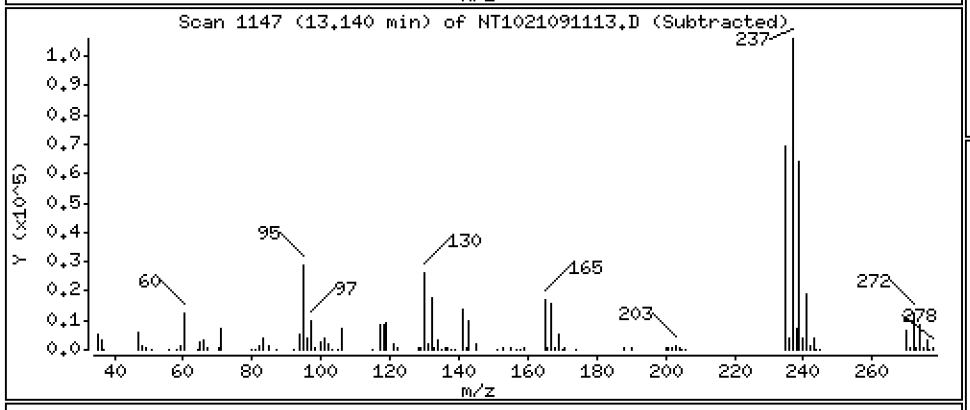
Column phase: ZB-5msi

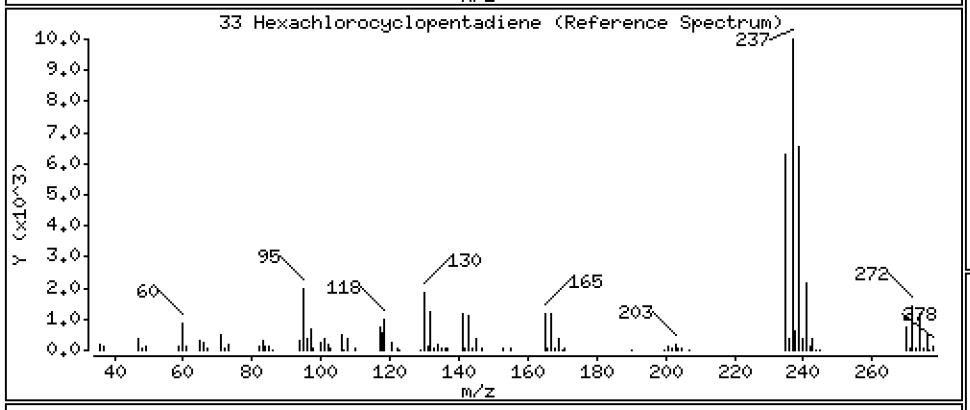
Column diameter: 0.25

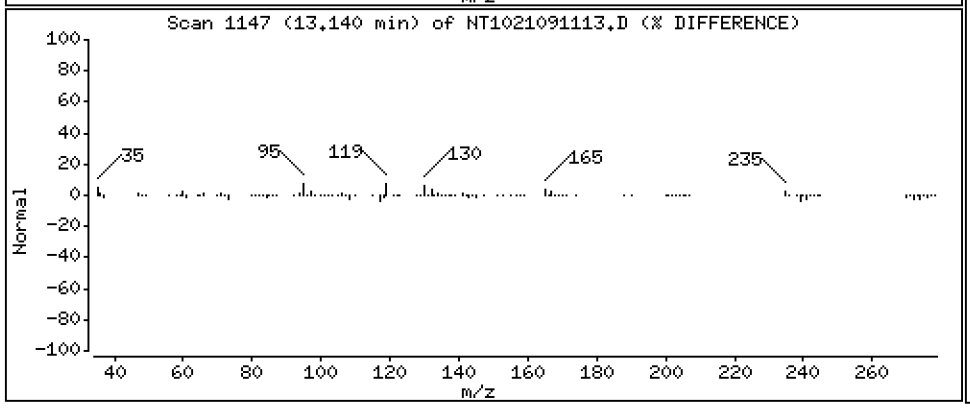
33 Hexachlorocyclopentadiene

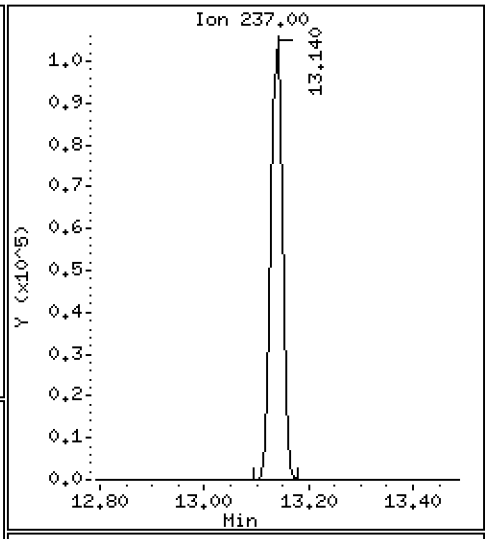
Concentration: 8.912 ug/mL

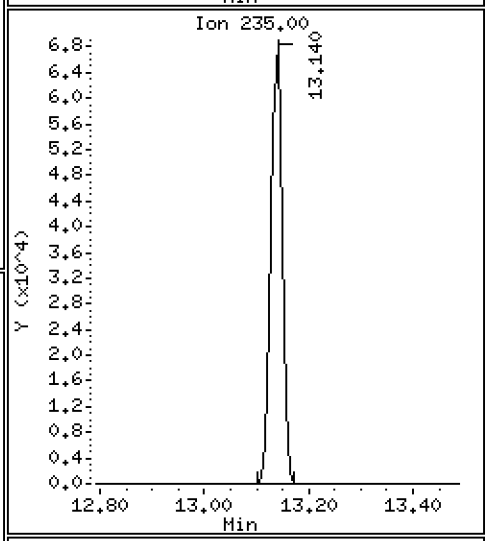


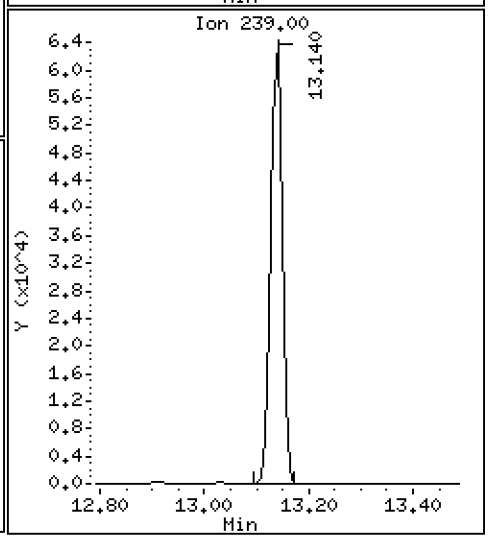












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

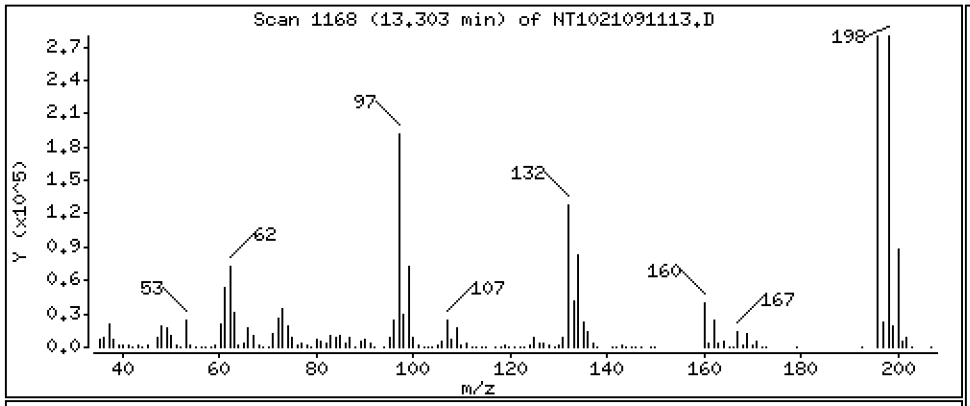
Operator: VTS

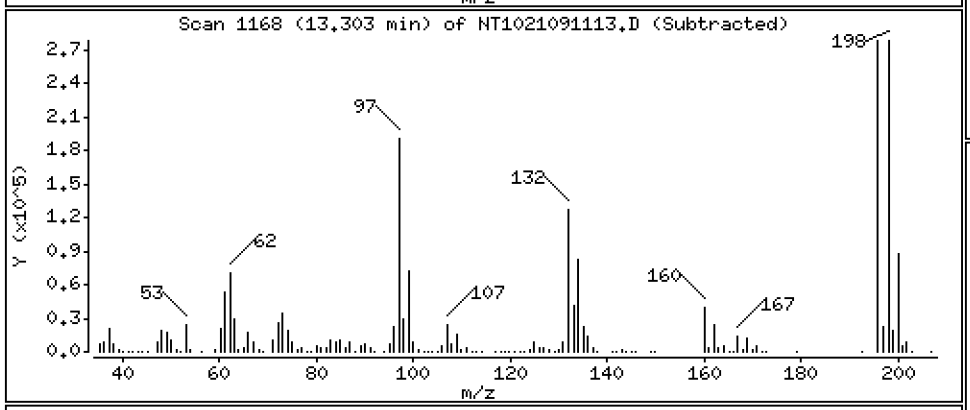
Column phase: ZB-5msi

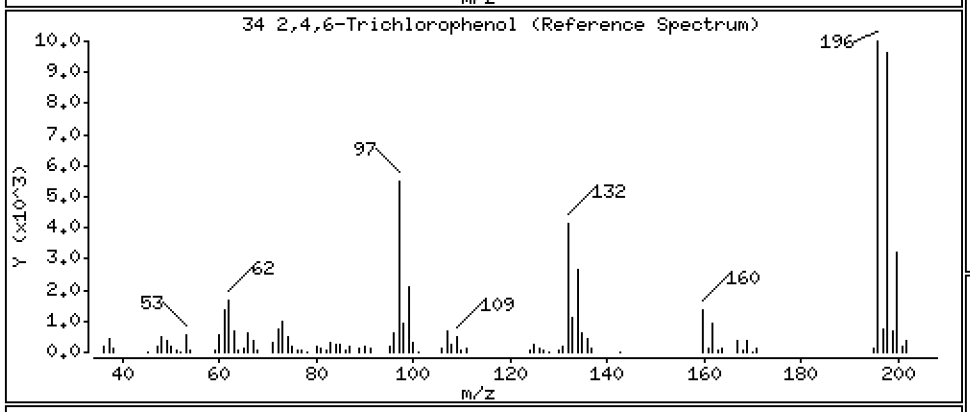
Column diameter: 0.25

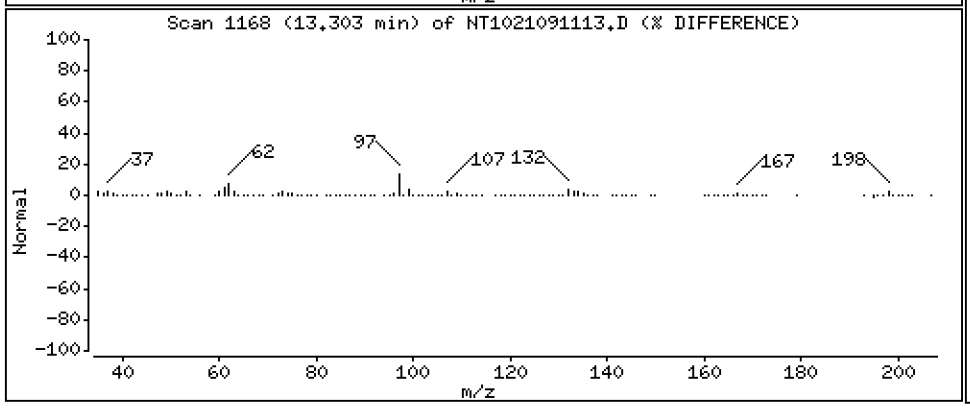
34 2,4,6-Trichlorophenol

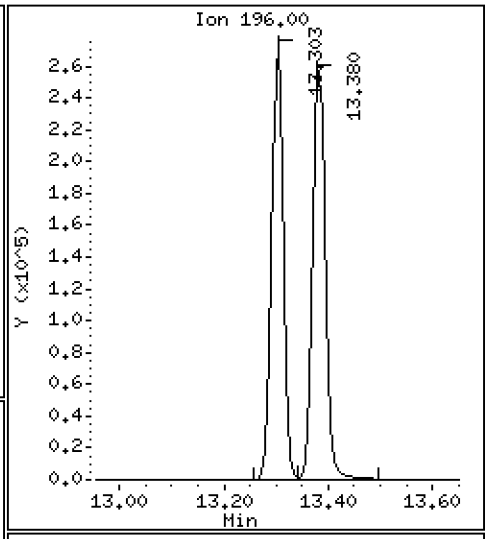
Concentration: 16.78 ug/mL

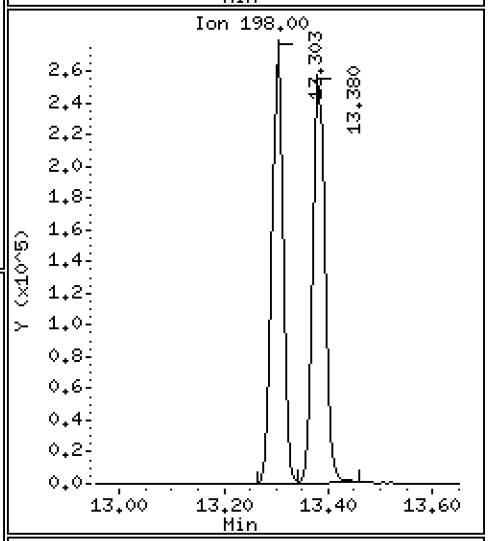


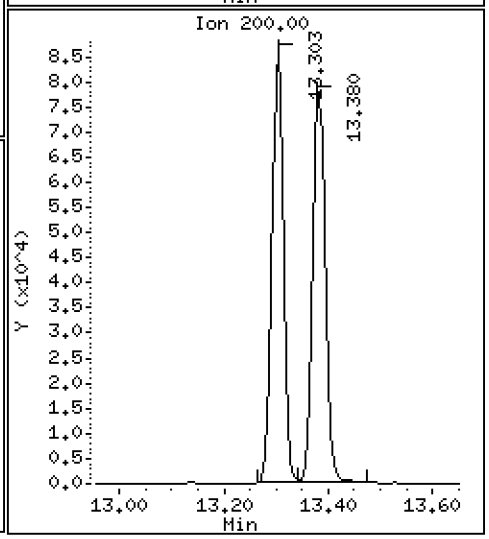












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

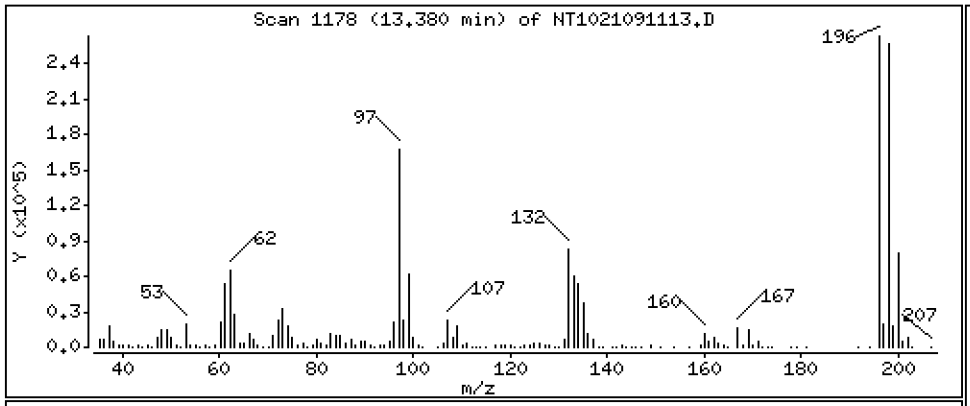
Operator: VTS

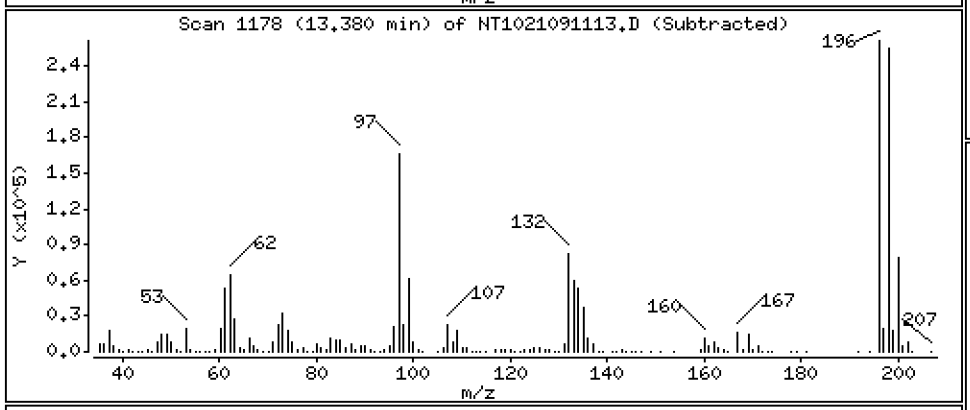
Column phase: ZB-5msi

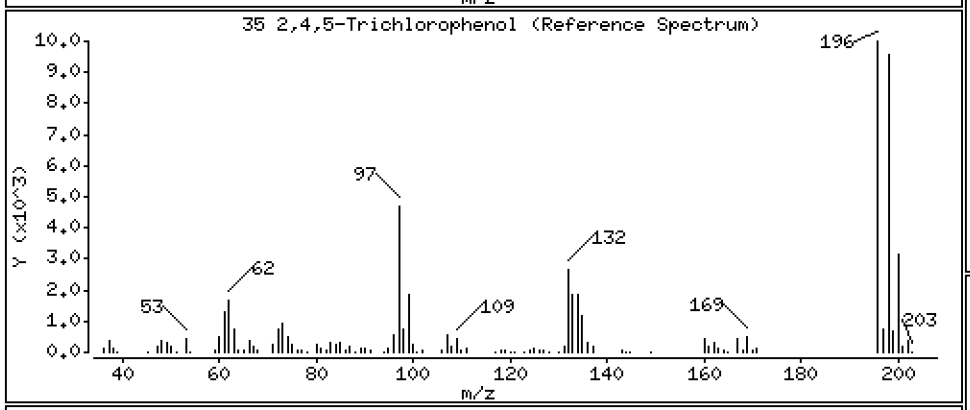
Column diameter: 0.25

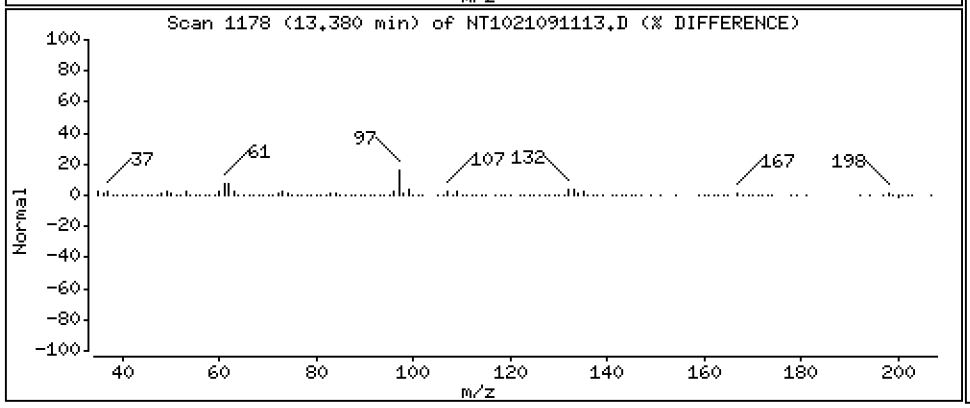
35 2,4,5-Trichlorophenol

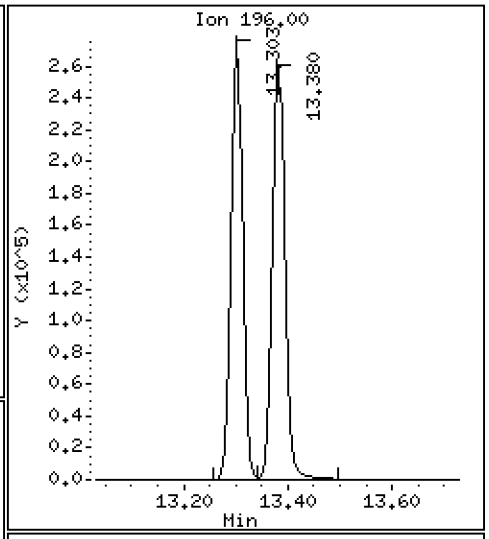
Concentration: 16.60 ug/mL

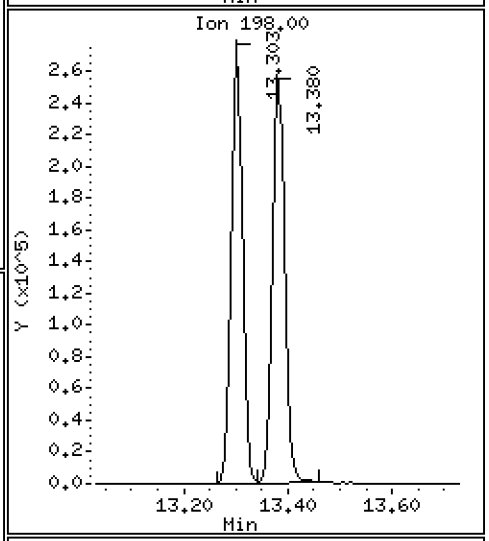


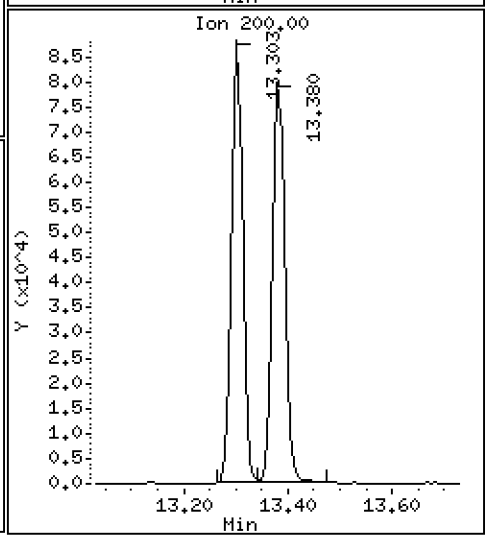












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

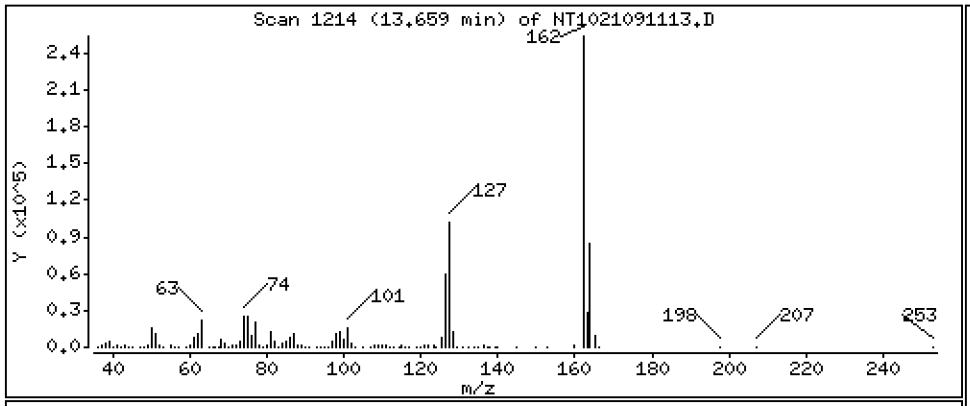
Operator: VTS

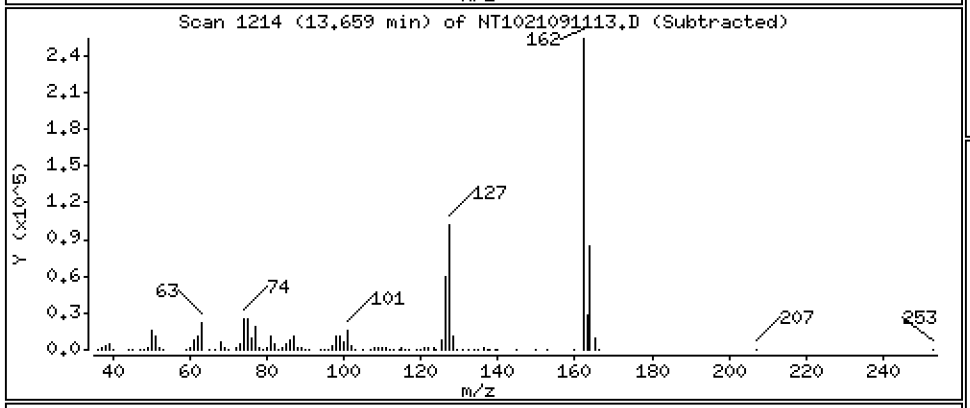
Column phase: ZB-5msi

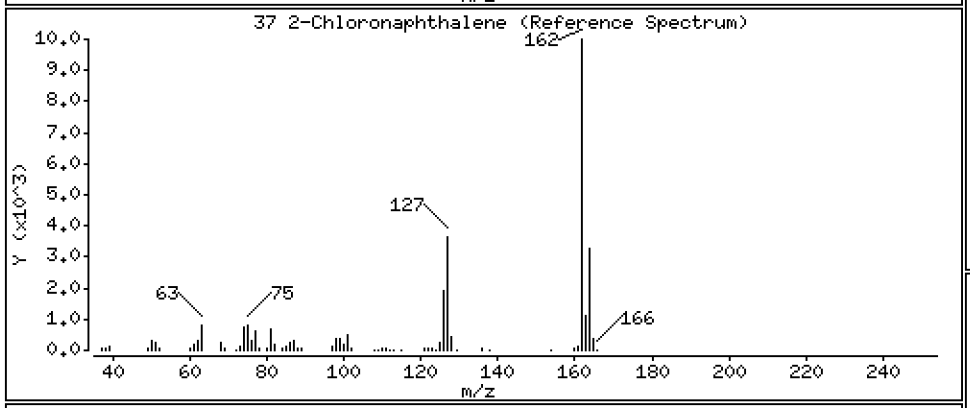
Column diameter: 0.25

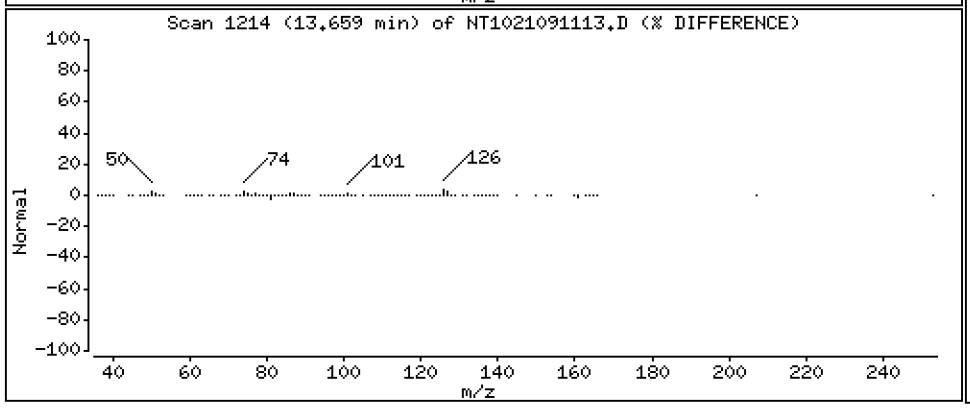
37 2-Chloronaphthalene

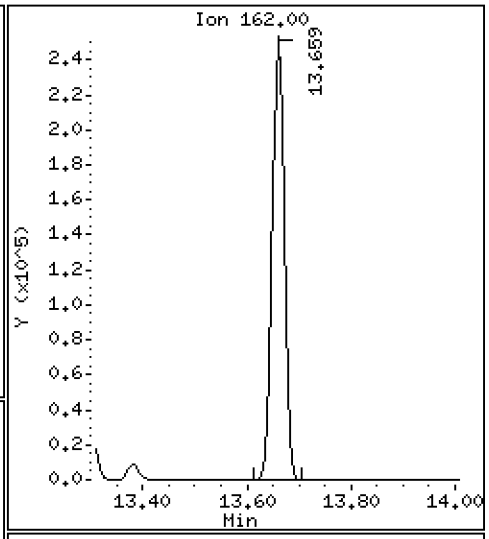
Concentration: 5.154 ug/mL

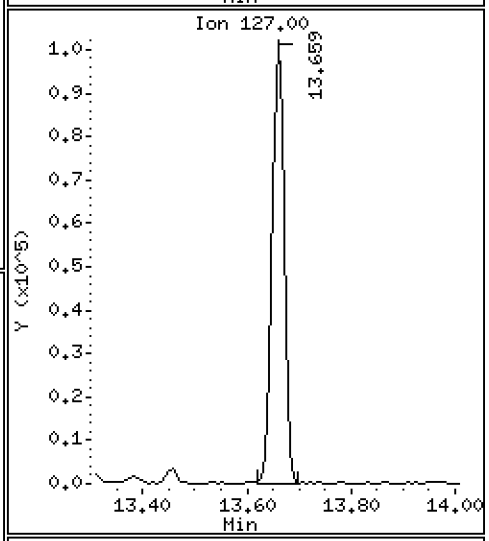


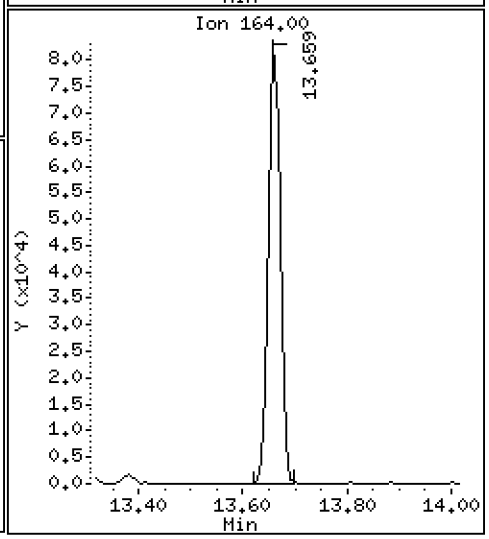












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

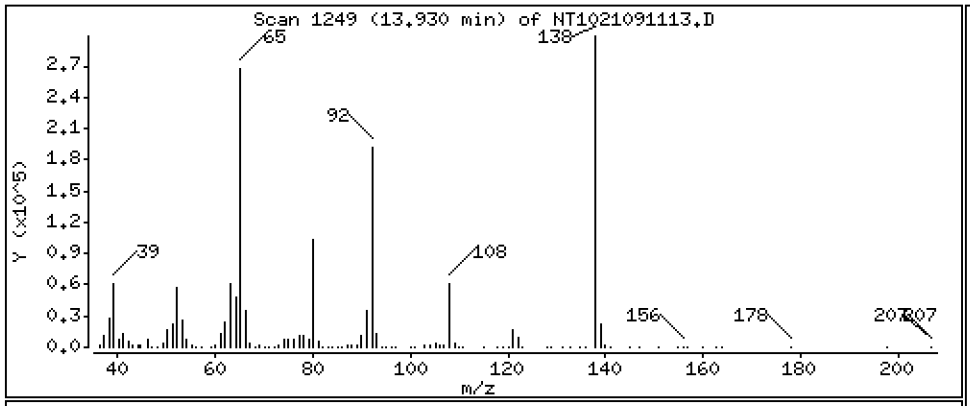
Operator: VTS

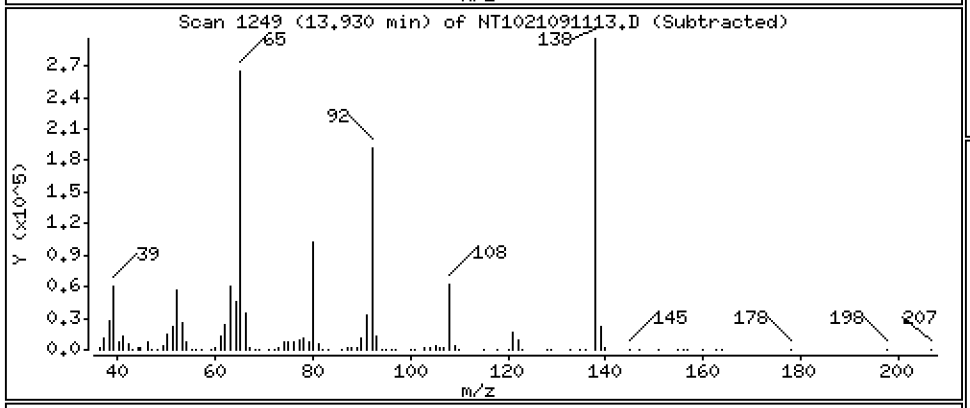
Column phase: ZB-5msi

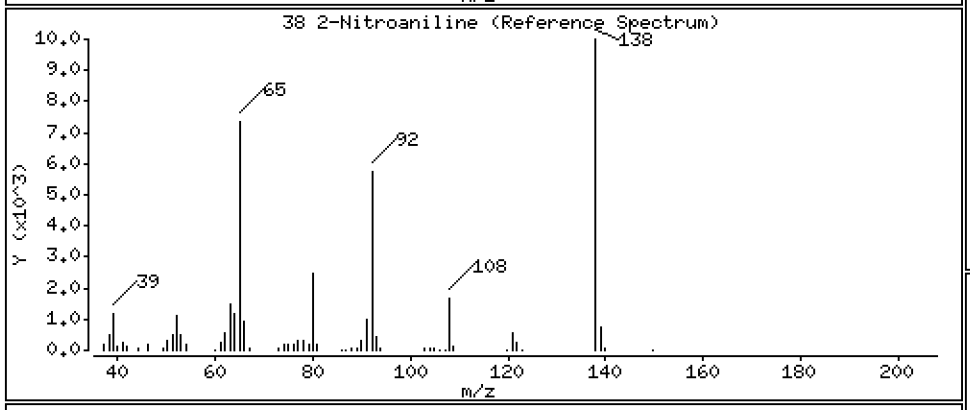
Column diameter: 0.25

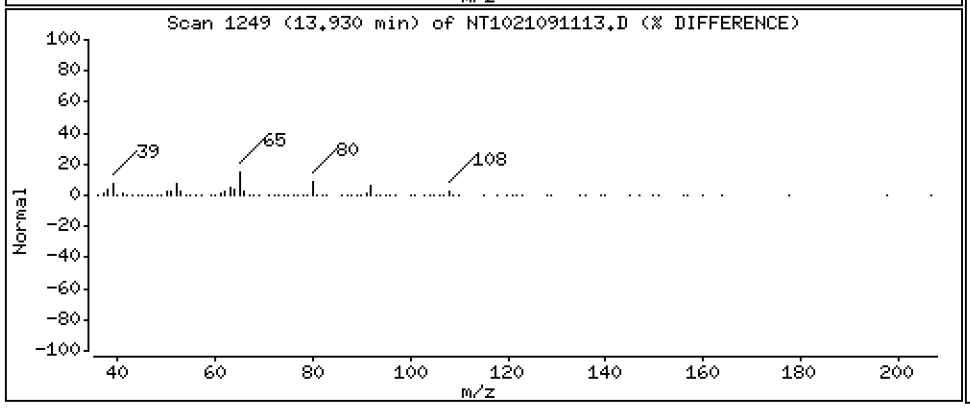
38 2-Nitroaniline

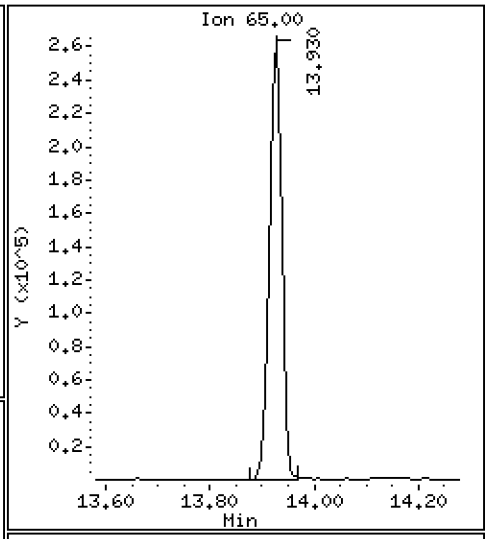
Concentration: 18.62 ug/mL

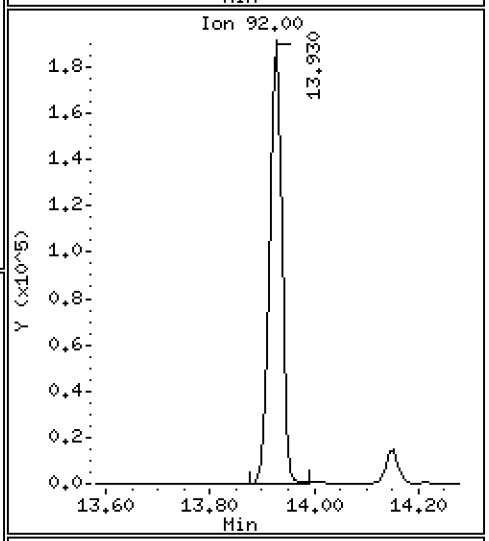


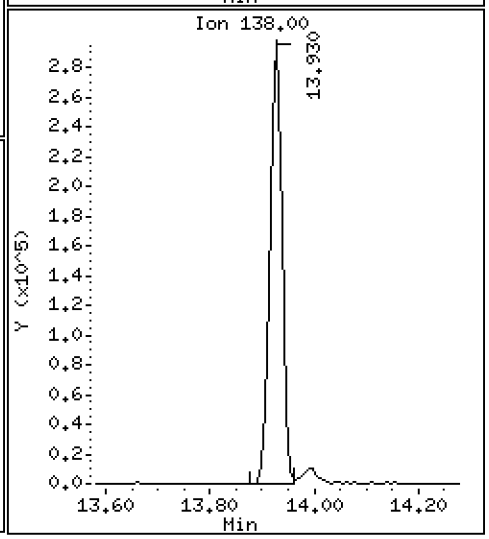












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

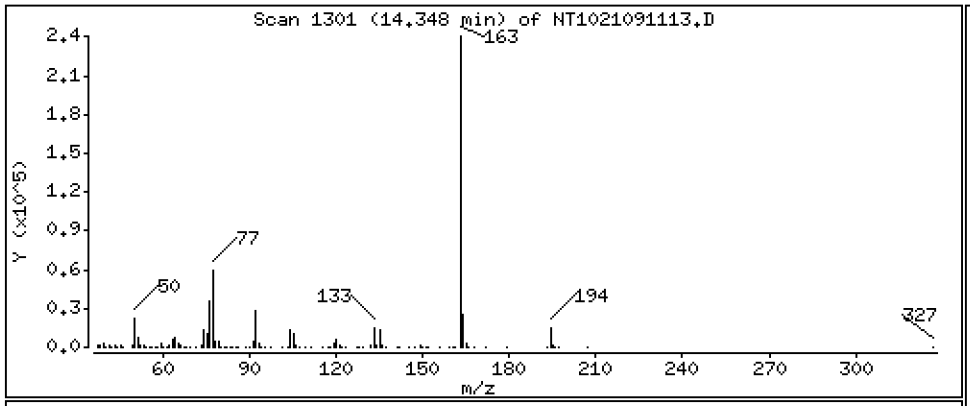
Operator: VTS

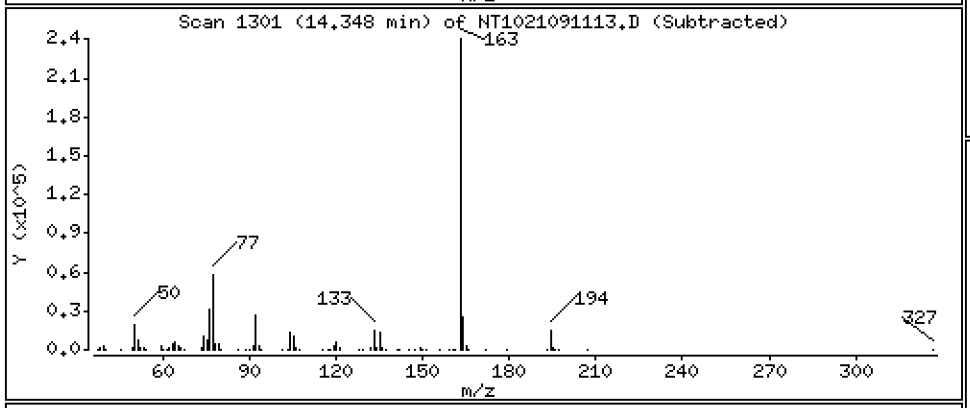
Column phase: ZB-5msi

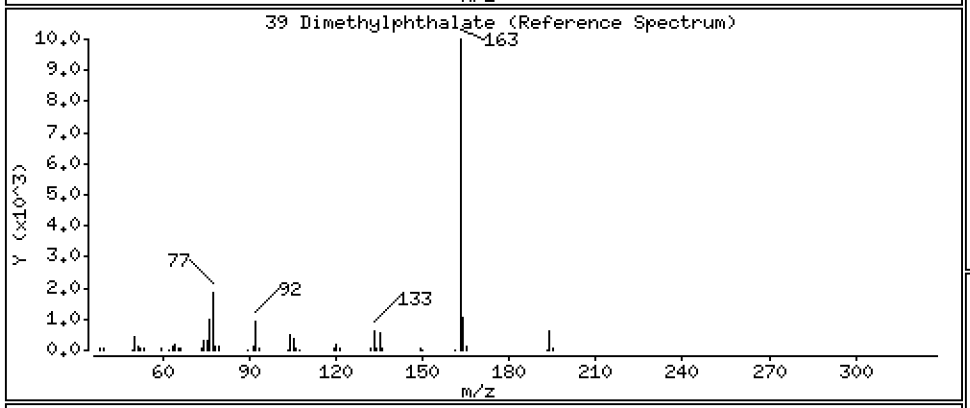
Column diameter: 0.25

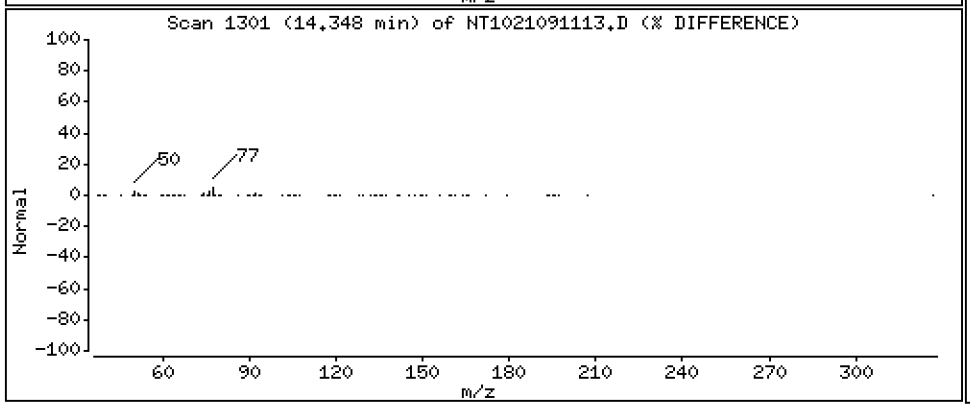
39 Dimethylphthalate

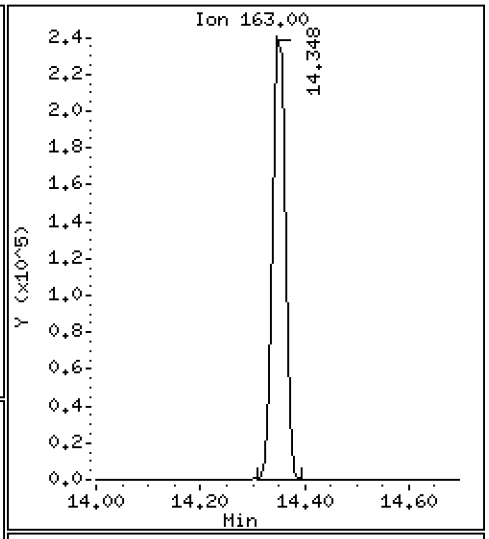
Concentration: 5.026 ug/mL

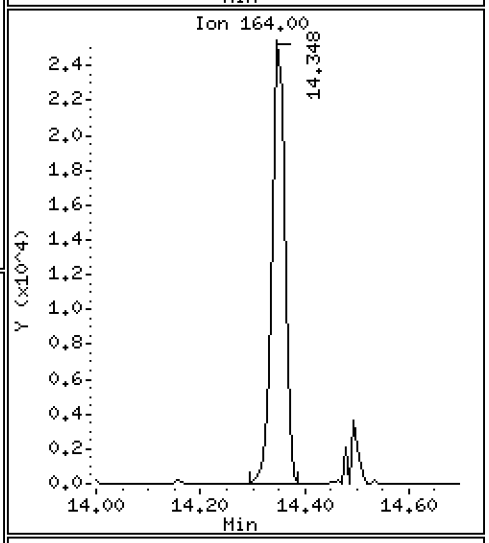


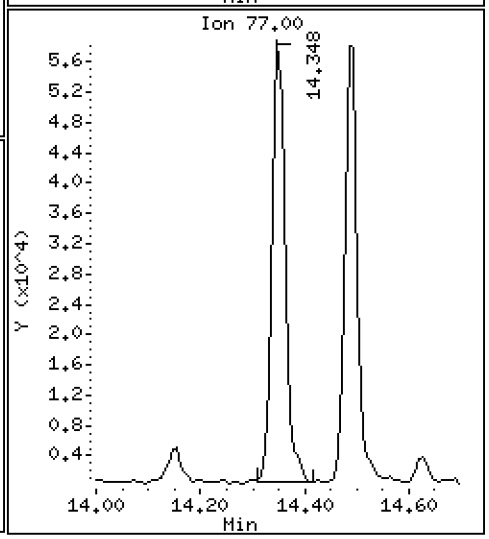












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

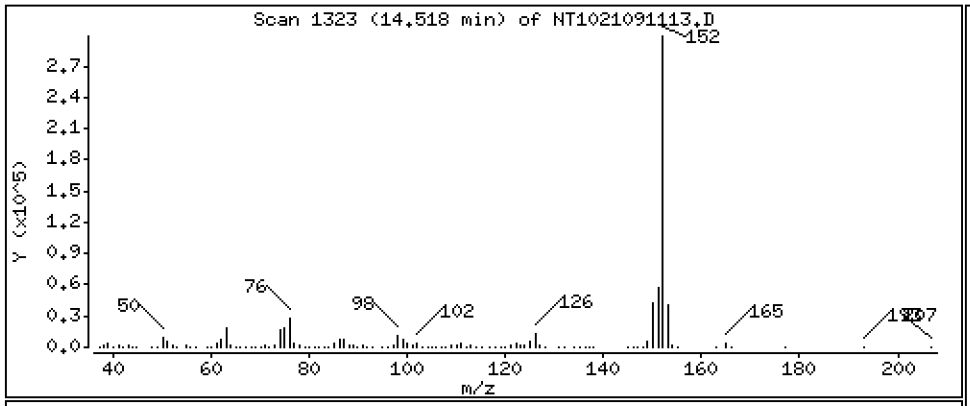
Operator: VTS

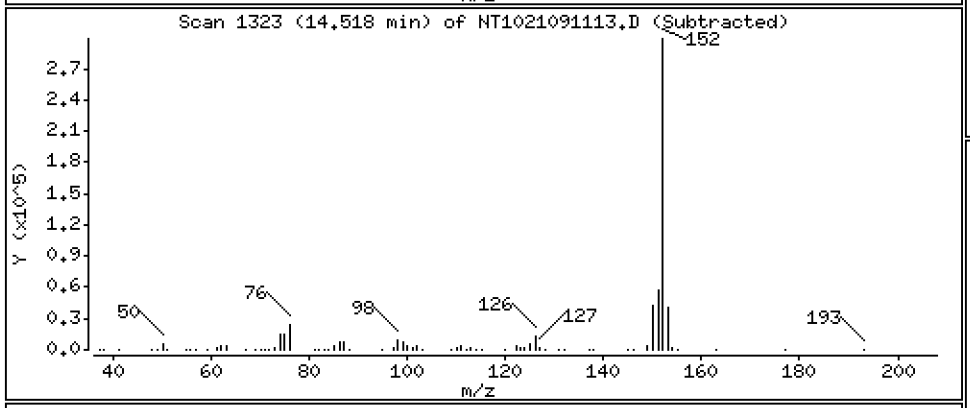
Column phase: ZB-5msi

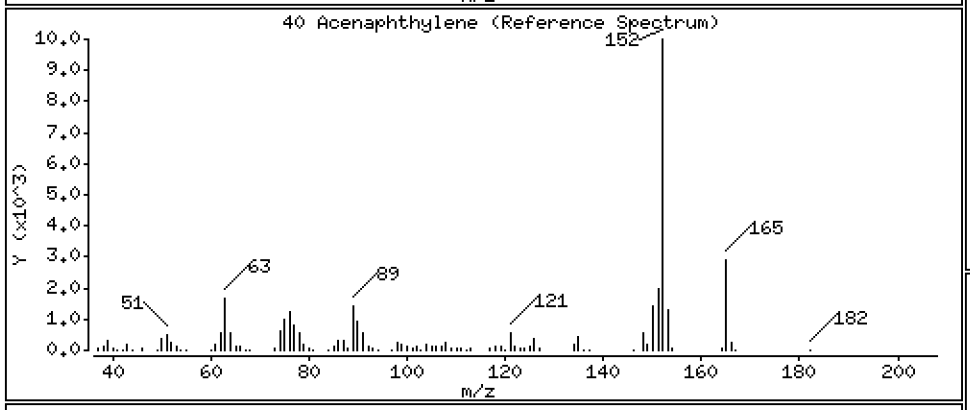
Column diameter: 0.25

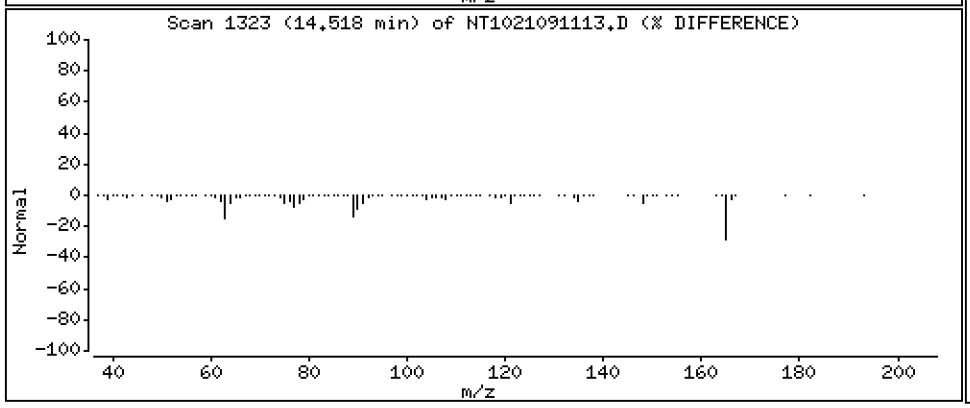
40 Acenaphthylene

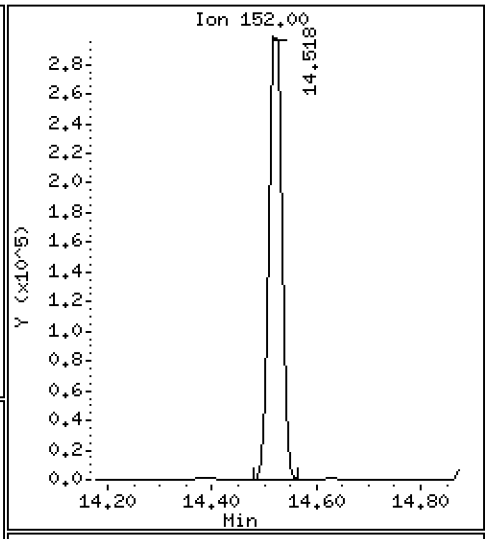
Concentration: 4.183 ug/mL

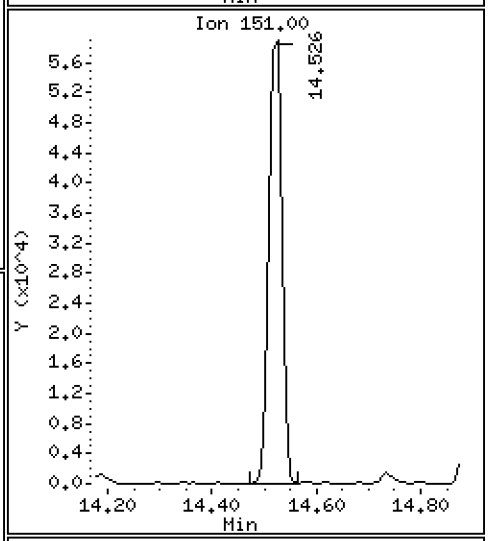


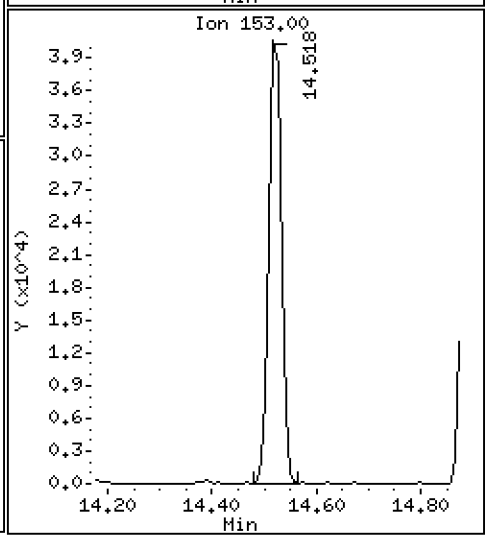












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

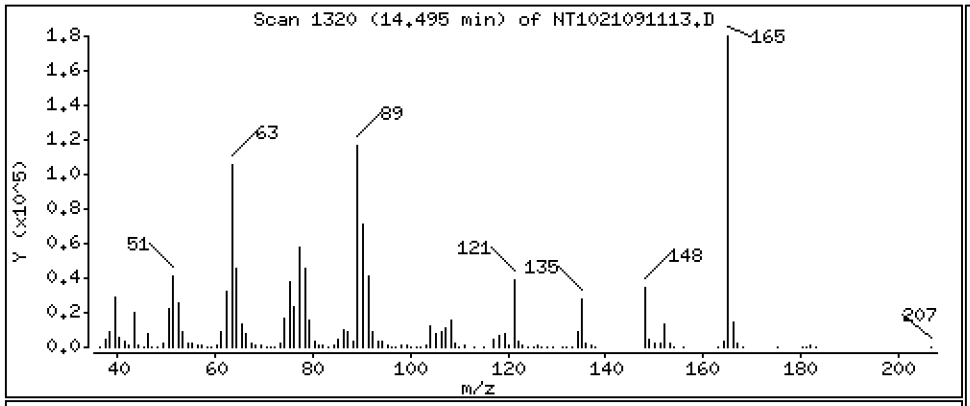
Operator: VTS

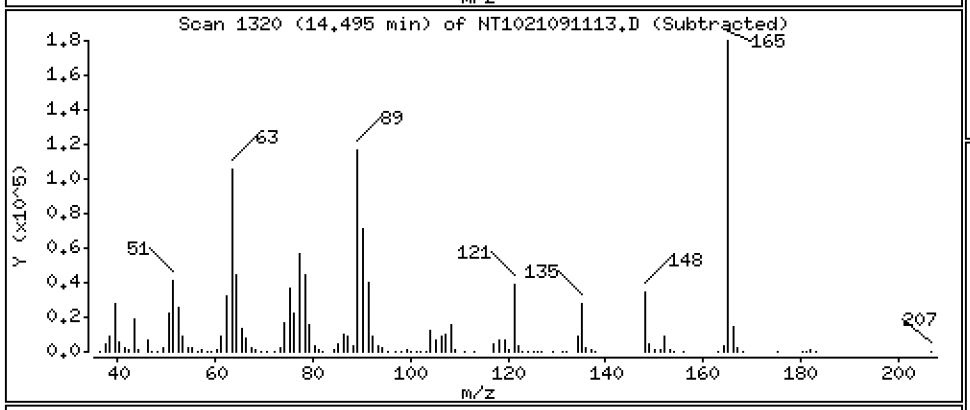
Column phase: ZB-5msi

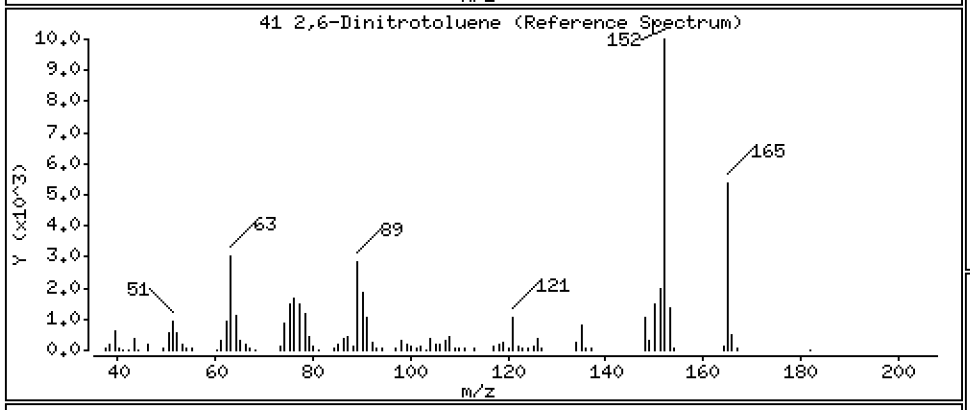
Column diameter: 0.25

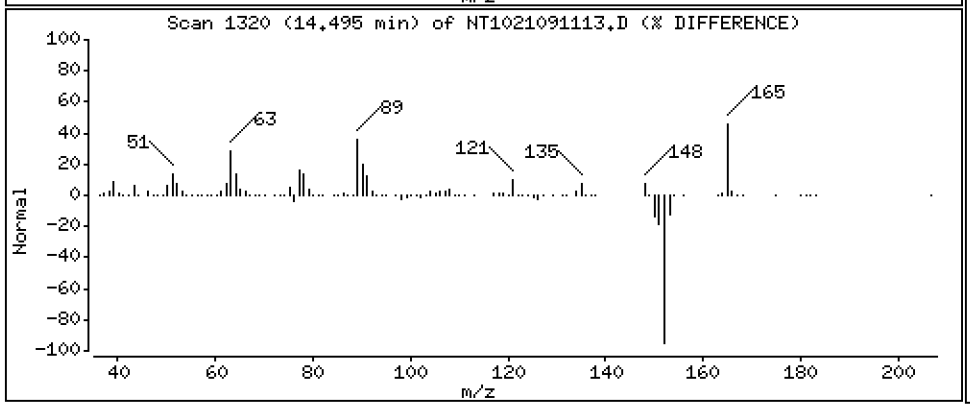
41 2,6-Dinitrotoluene

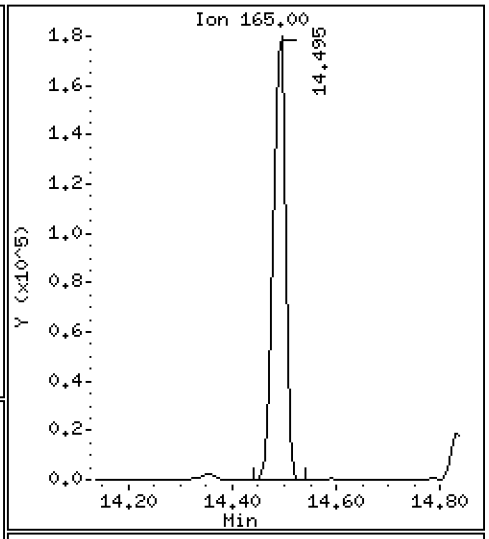
Concentration: 16.76 ug/mL

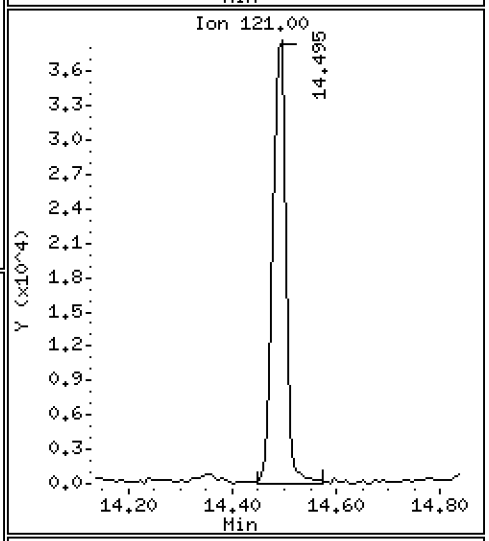


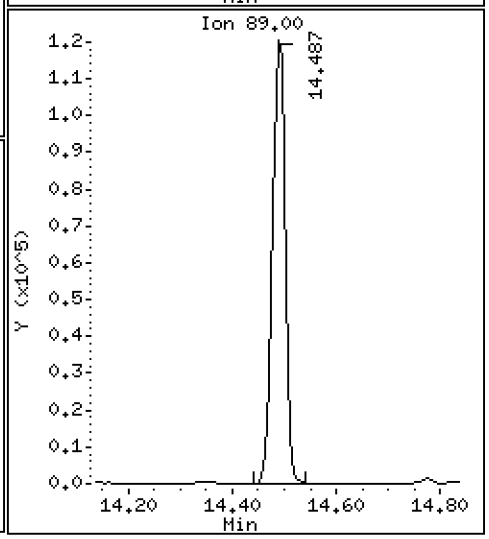












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

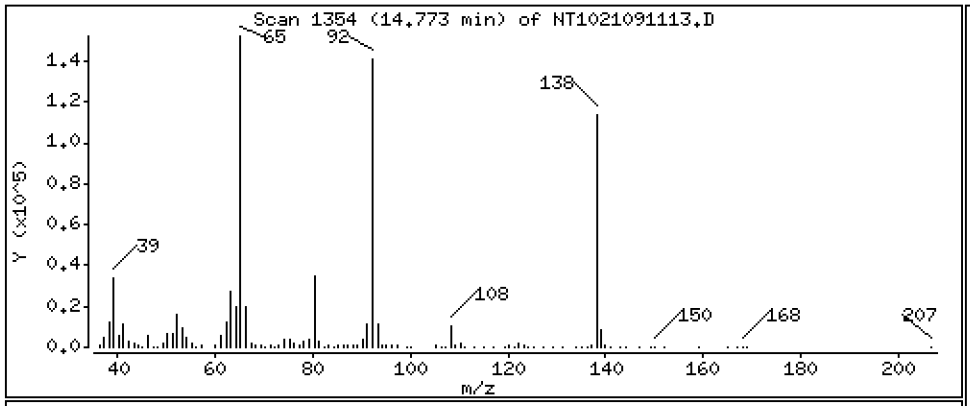
Operator: VTS

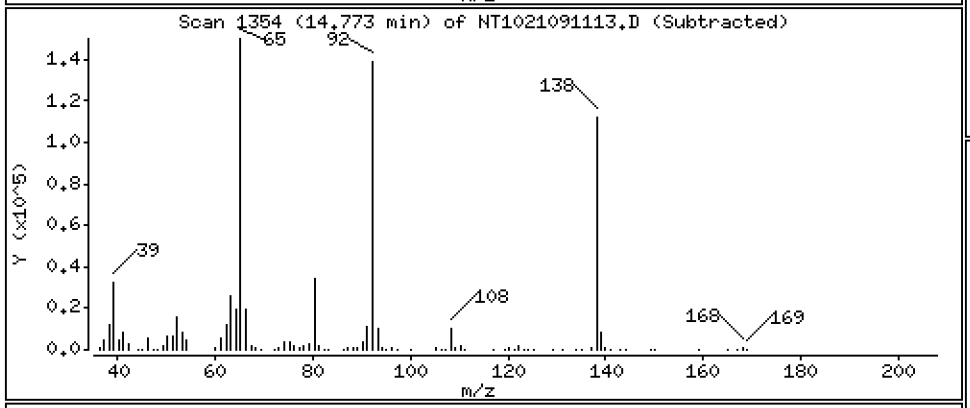
Column phase: ZB-5msi

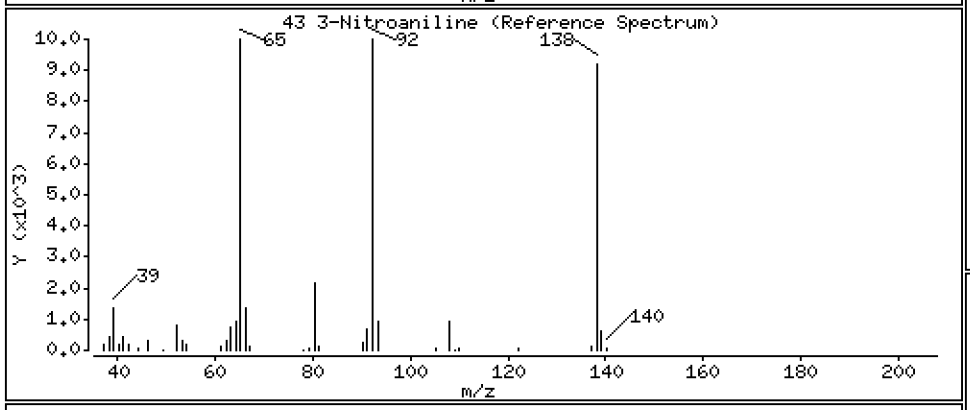
Column diameter: 0.25

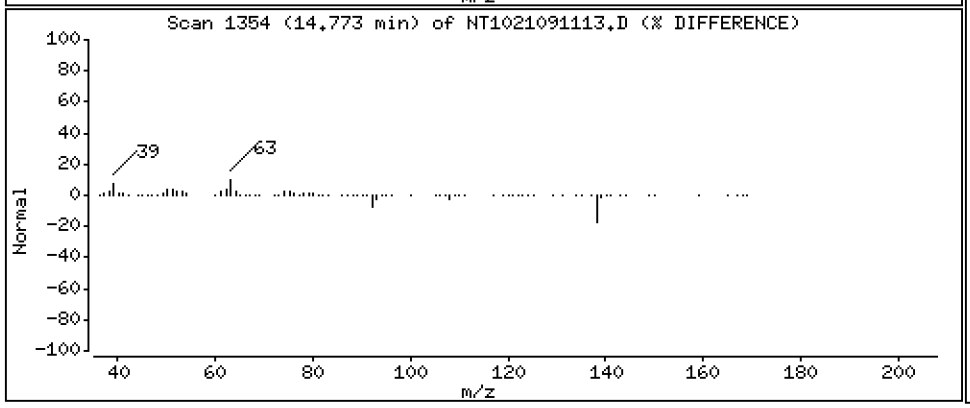
43 3-Nitroaniline

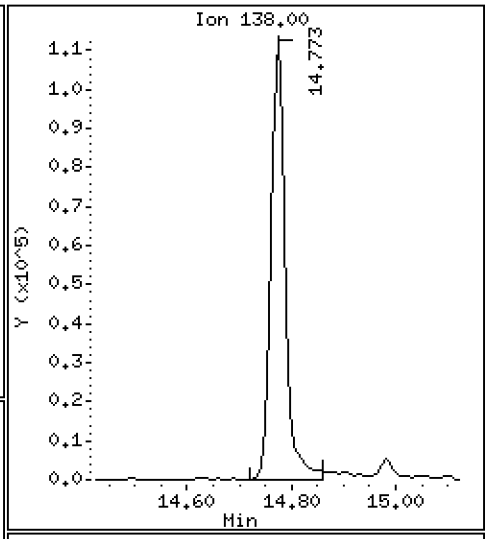
Concentration: 8.889 ug/mL

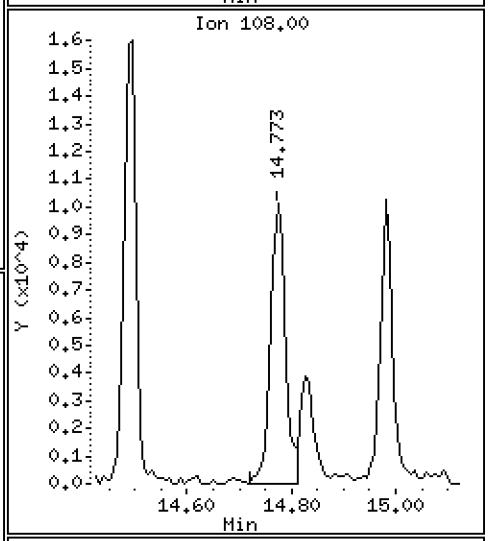


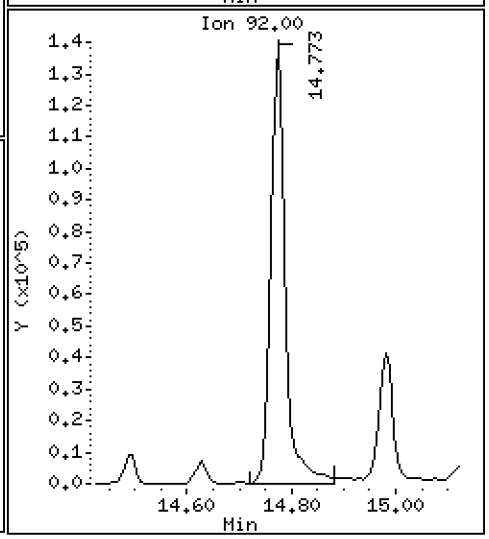












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

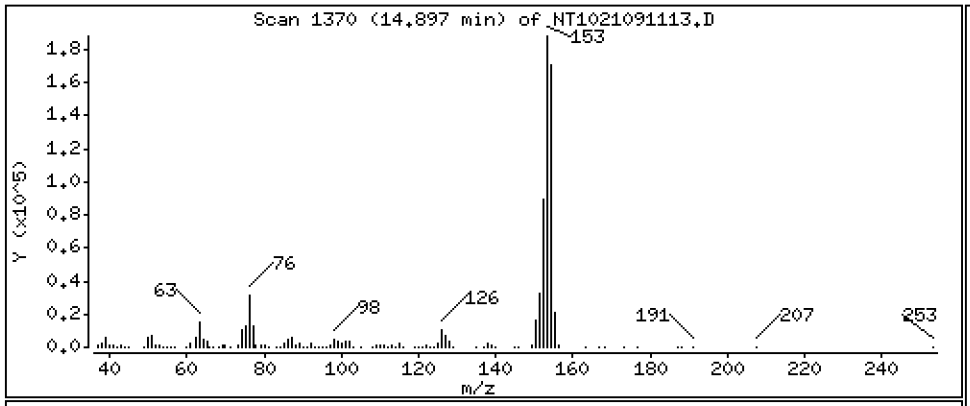
Operator: VTS

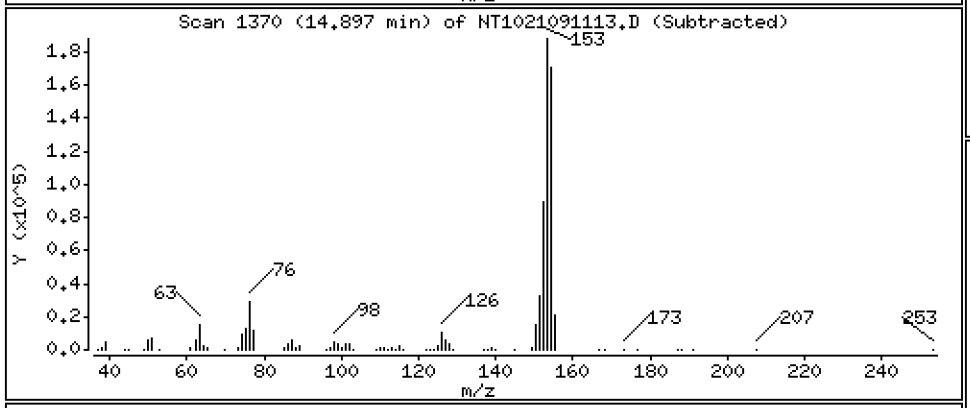
Column phase: ZB-5msi

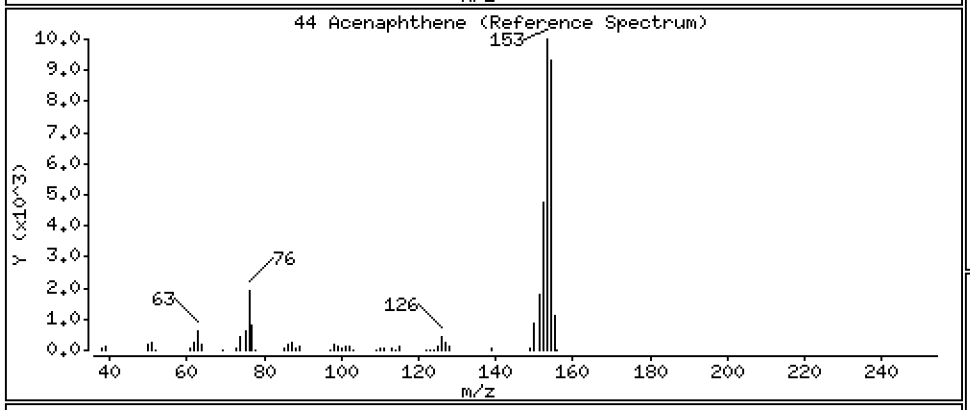
Column diameter: 0.25

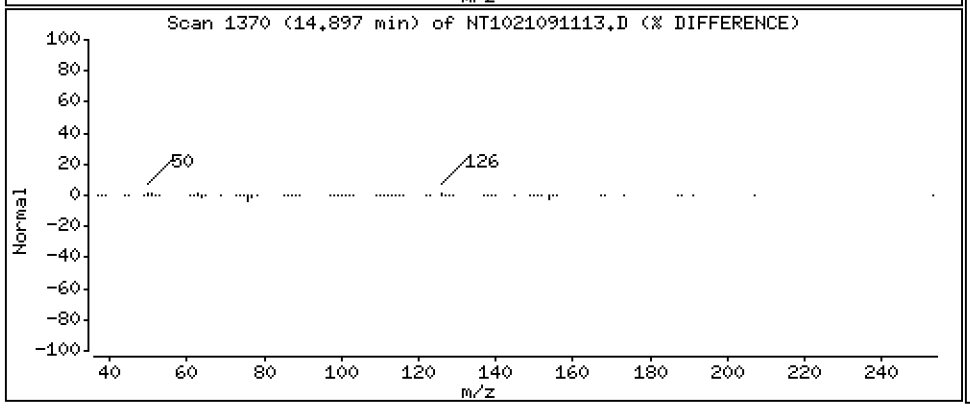
44 Acenaphthene

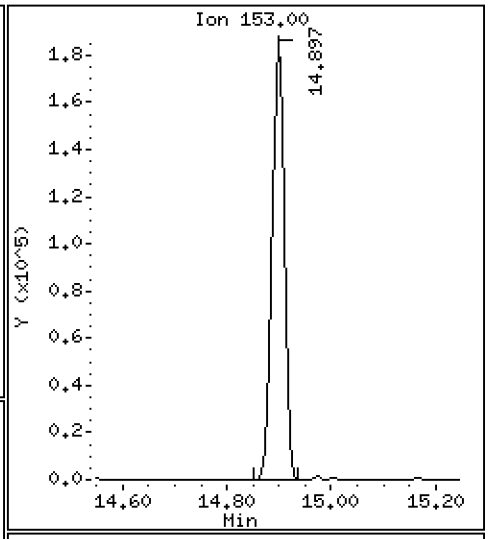
Concentration: 4.658 ug/mL

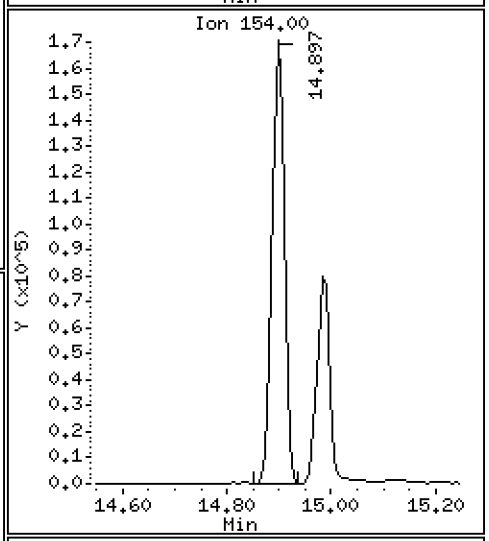


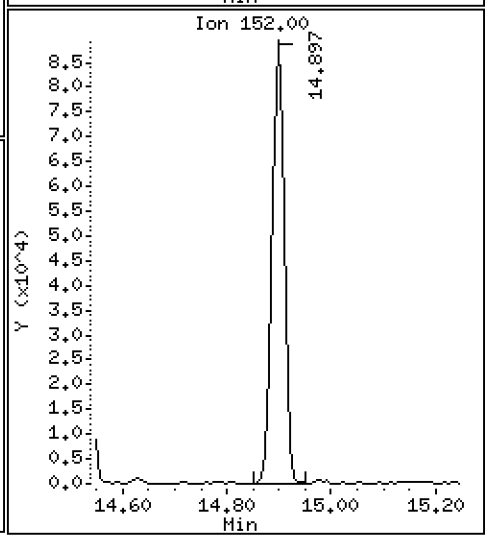












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

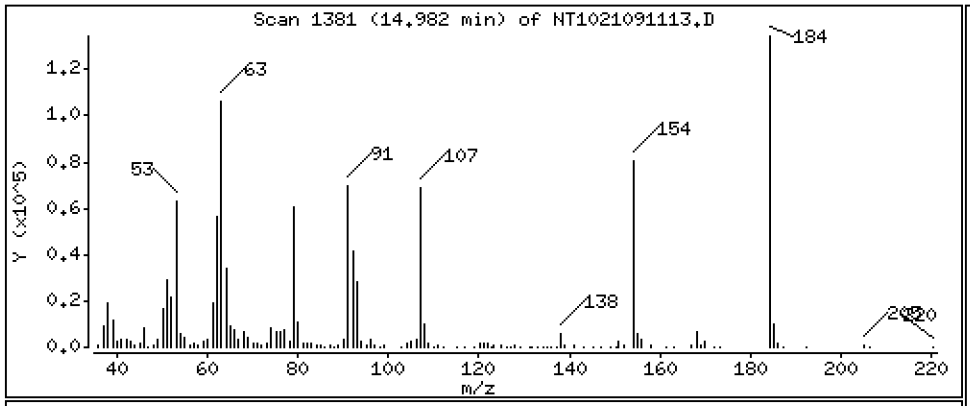
Operator: VTS

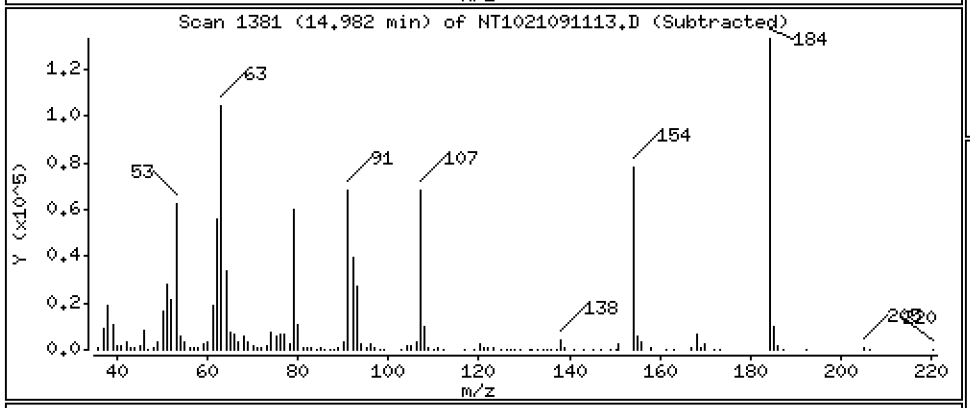
Column phase: ZB-5msi

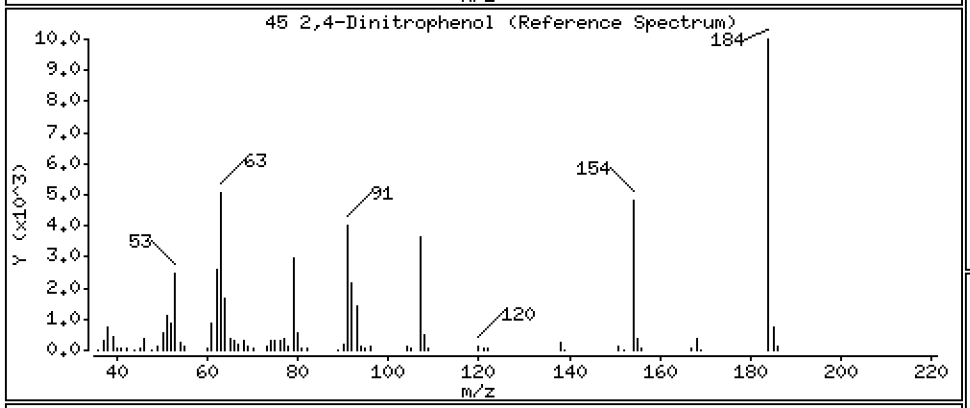
Column diameter: 0.25

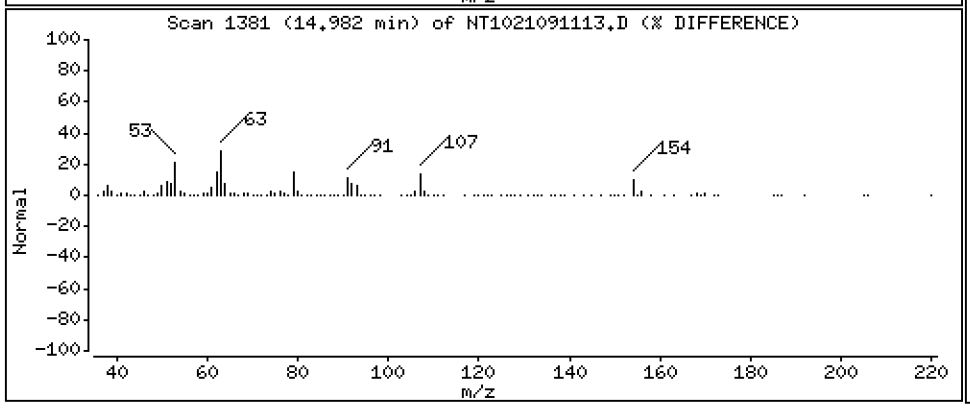
45 2,4-Dinitrophenol

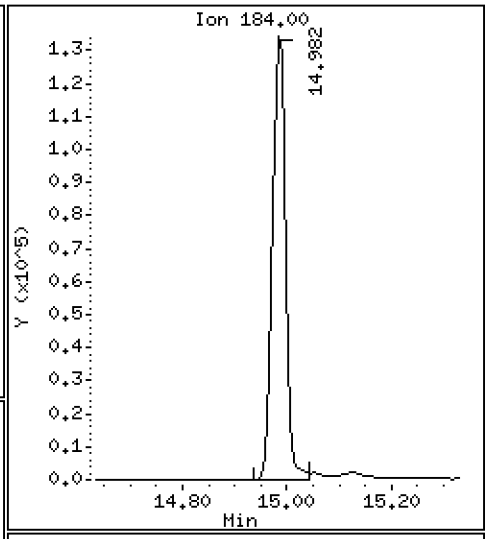
Concentration: 24.02 ug/mL

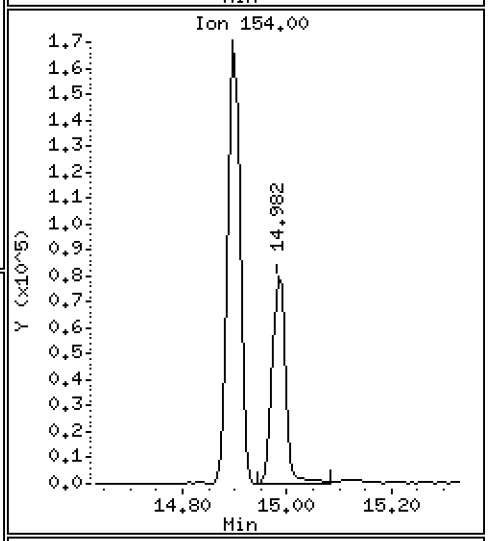


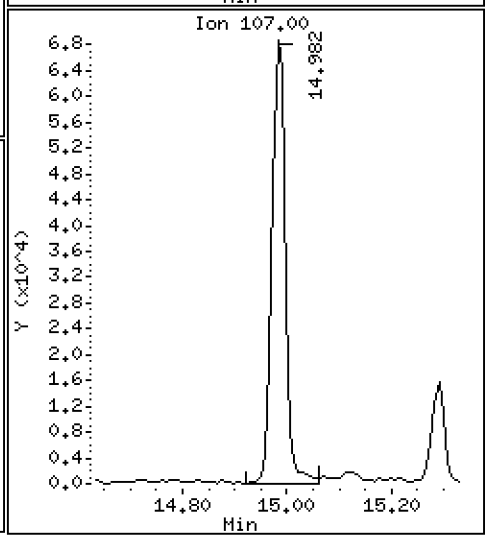












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

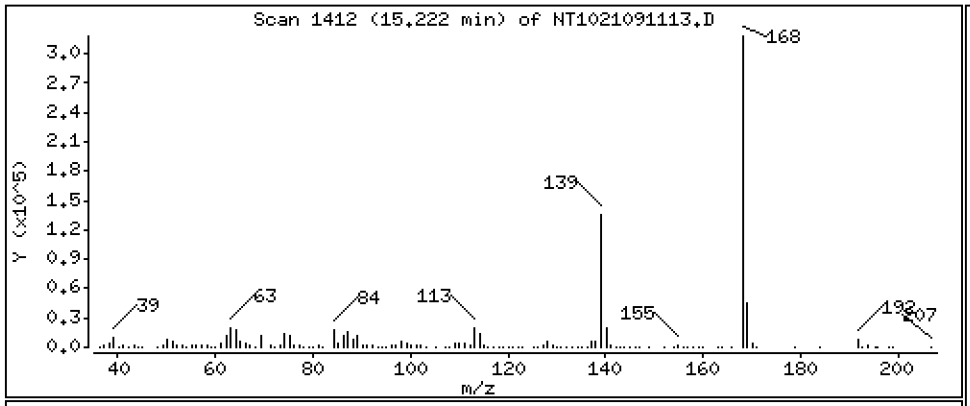
Operator: VTS

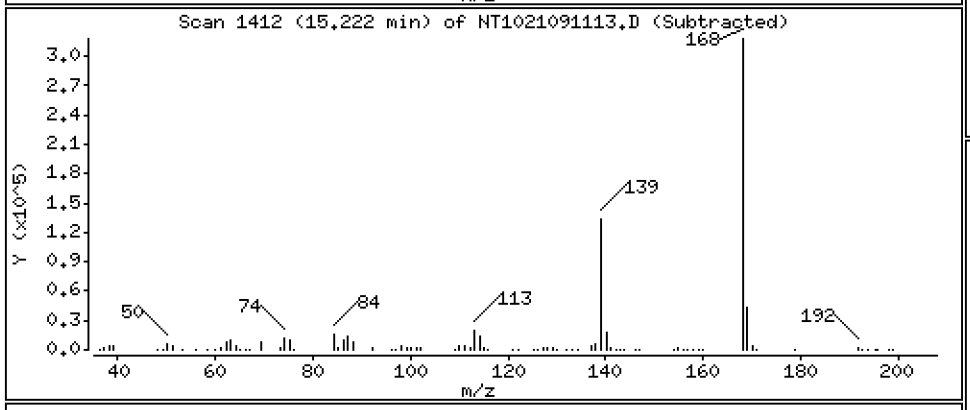
Column phase: ZB-5msi

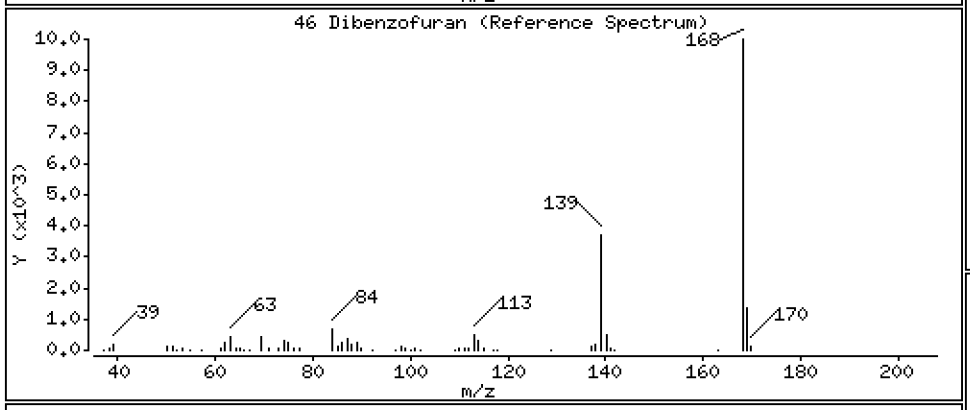
Column diameter: 0.25

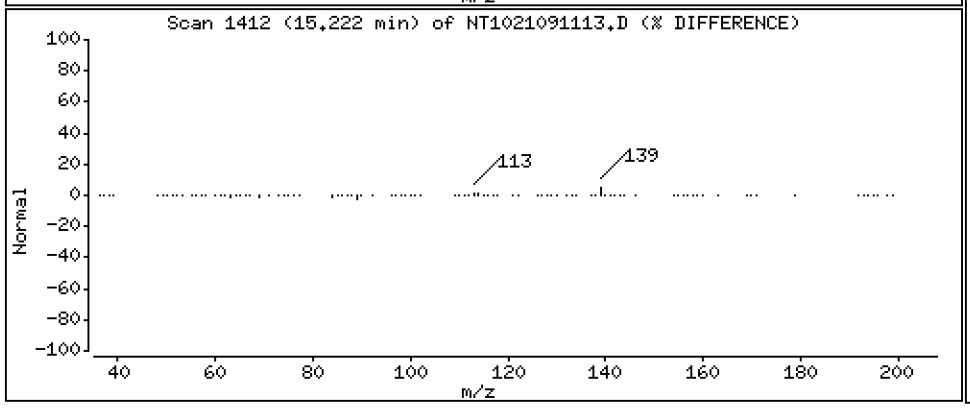
46 Dibenzofuran

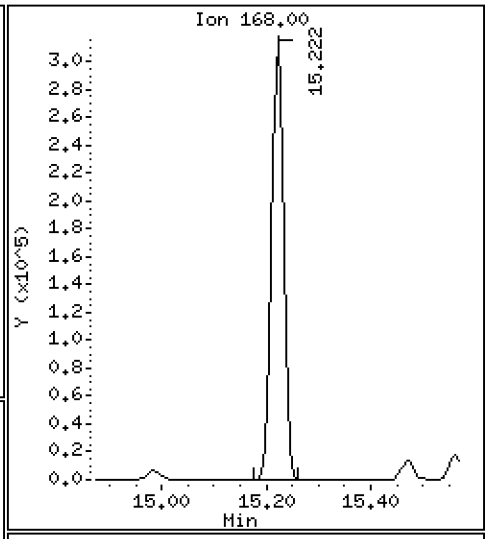
Concentration: 4.377 ug/mL

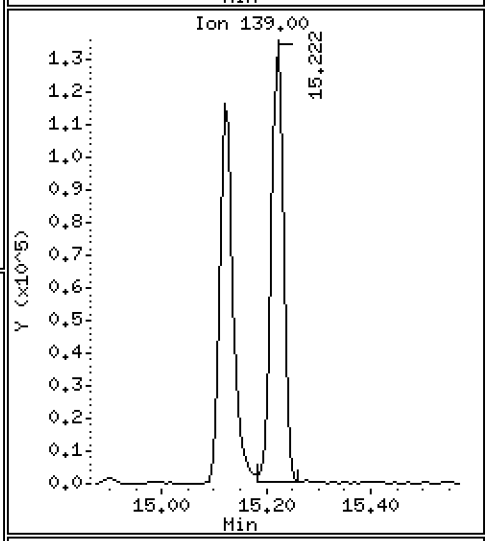


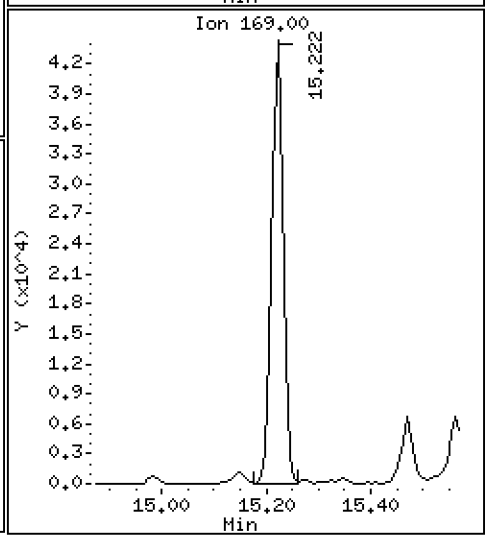












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

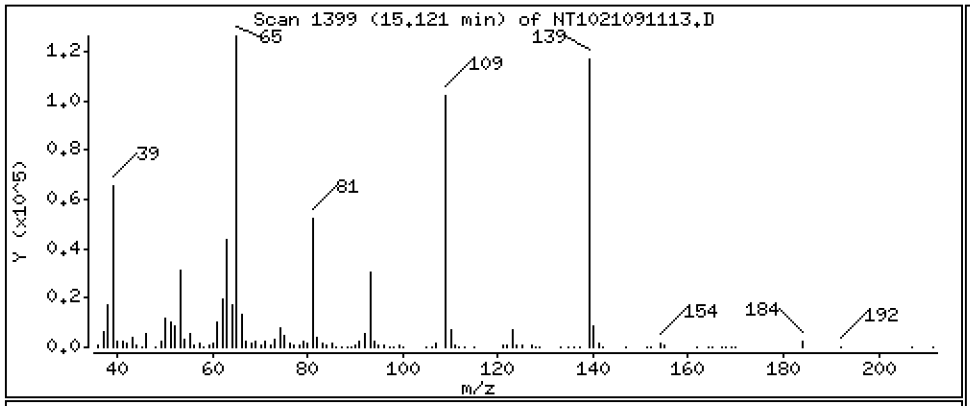
Operator: VTS

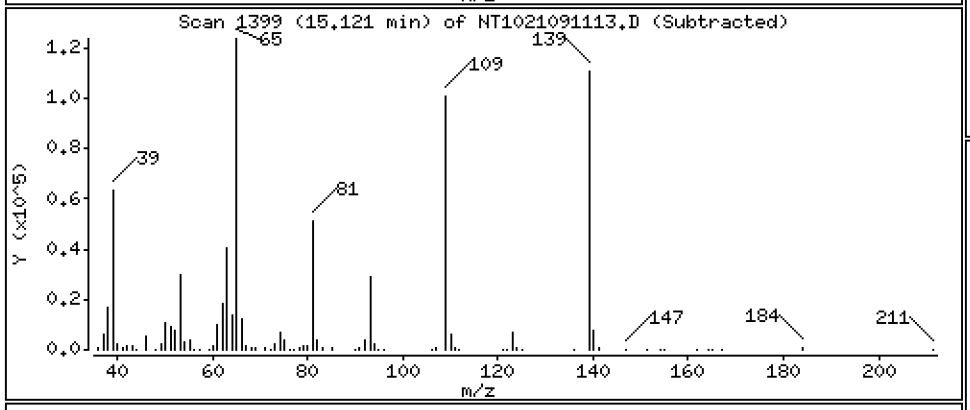
Column phase: ZB-5msi

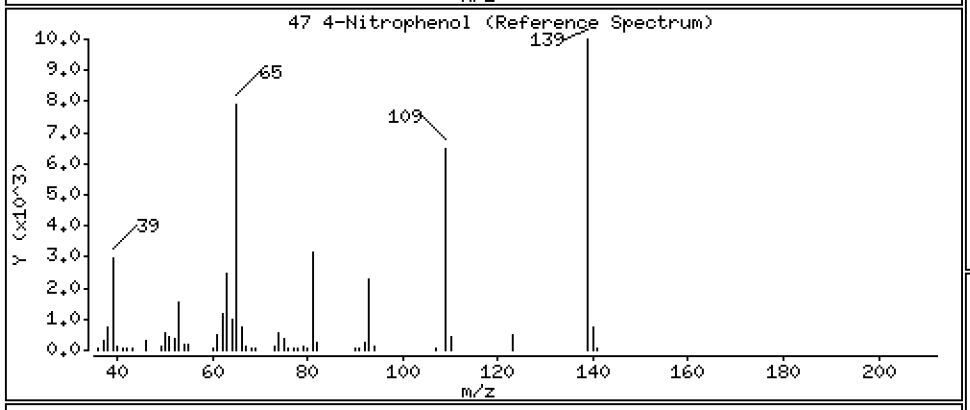
Column diameter: 0.25

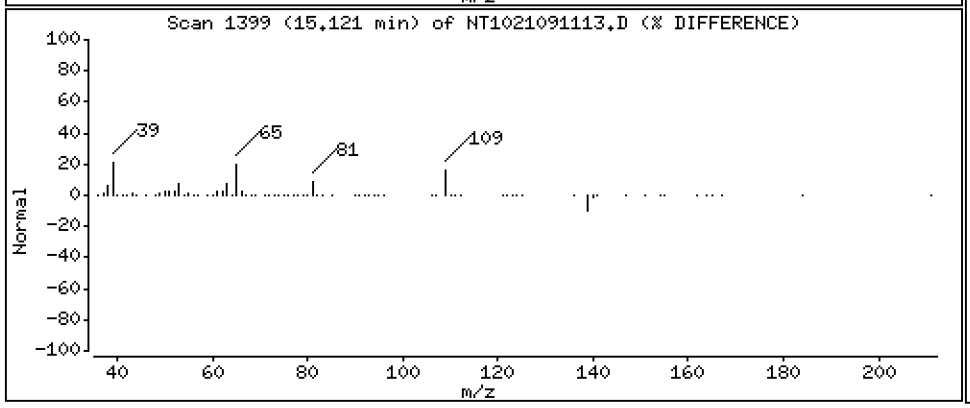
47 4-Nitrophenol

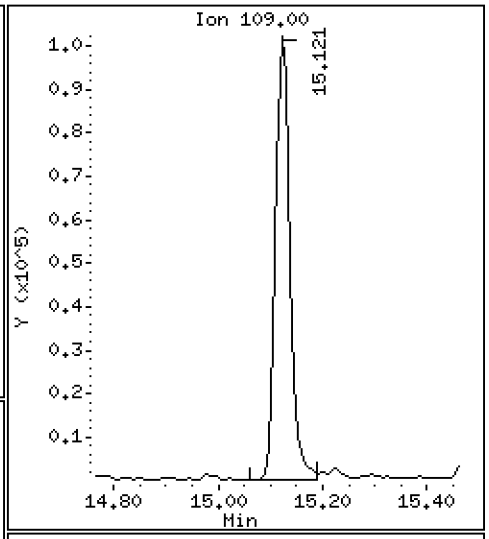
Concentration: 22.51 ug/mL

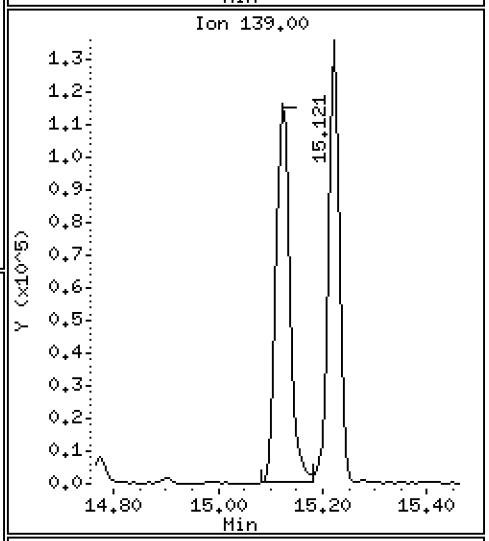


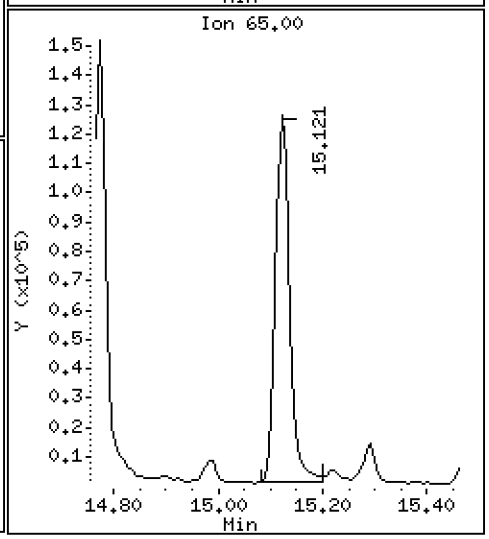












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

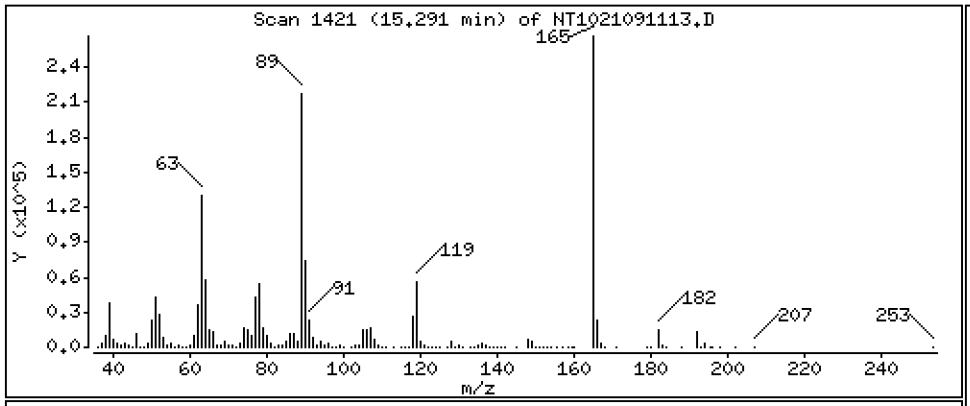
Operator: VTS

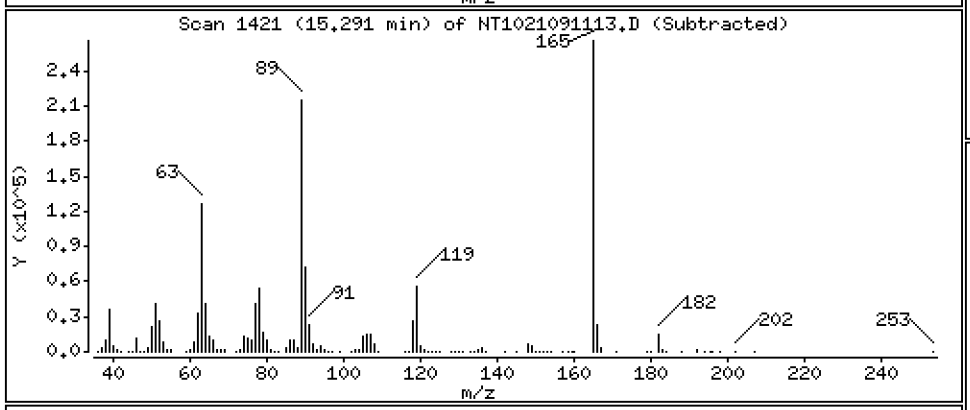
Column phase: ZB-5msi

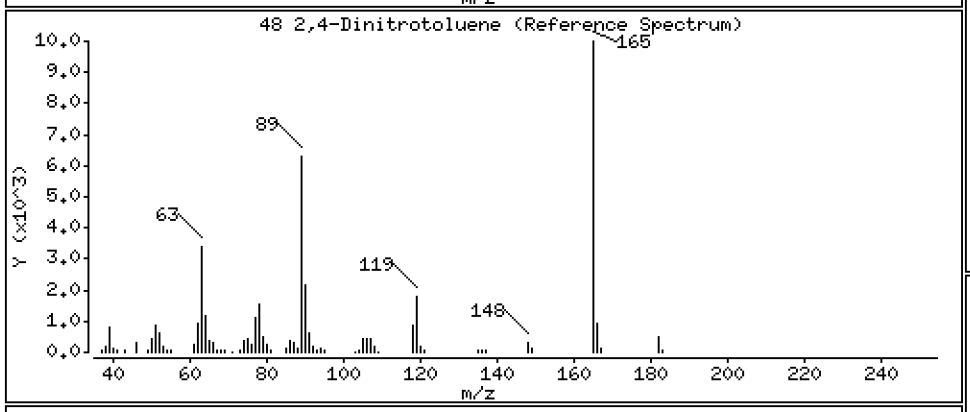
Column diameter: 0.25

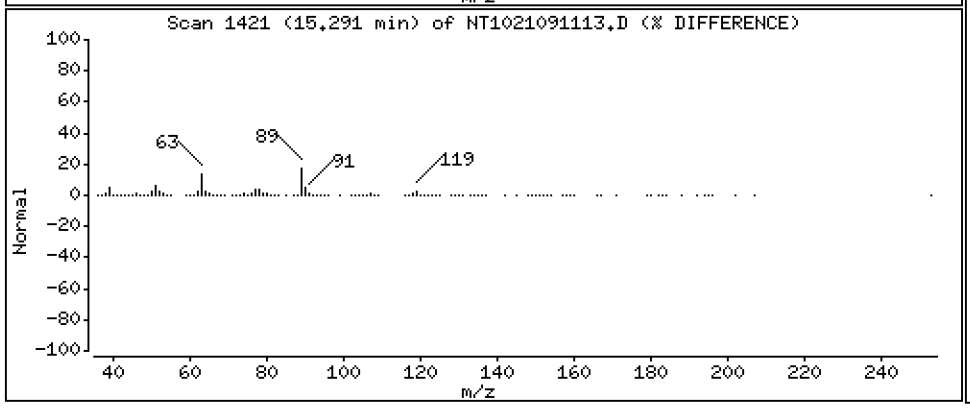
48 2,4-Dinitrotoluene

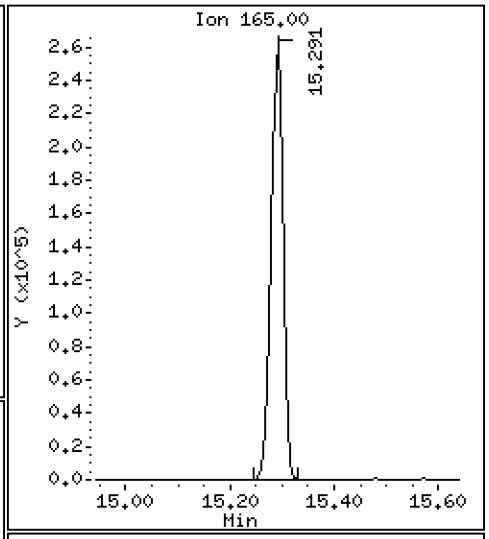
Concentration: 16.58 ug/mL

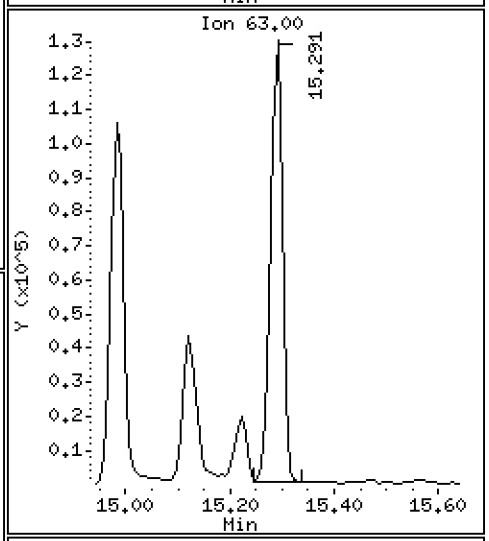


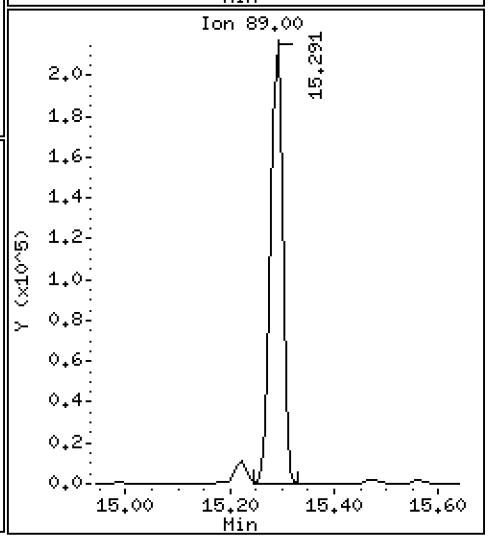












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

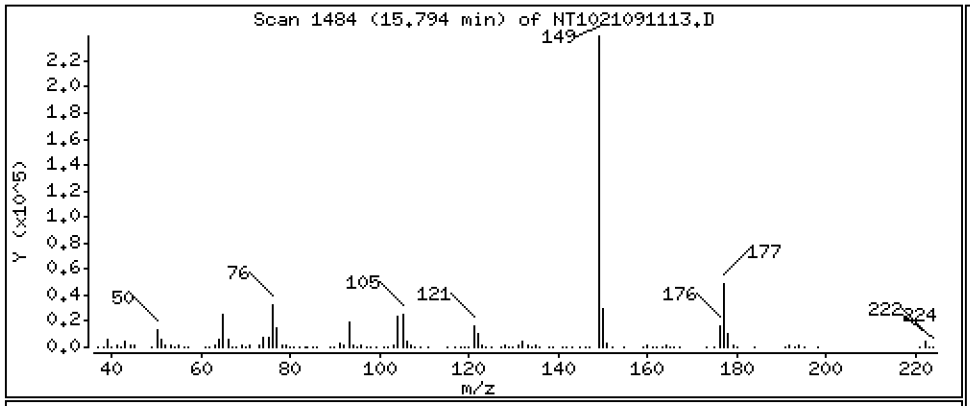
Operator: VTS

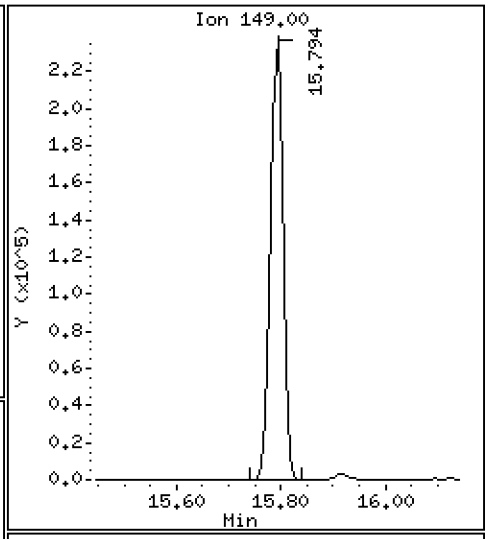
Column phase: ZB-5msi

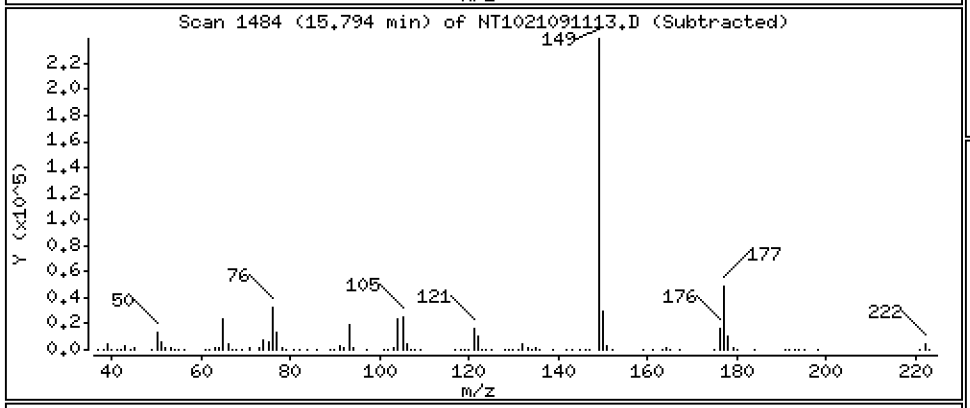
Column diameter: 0.25

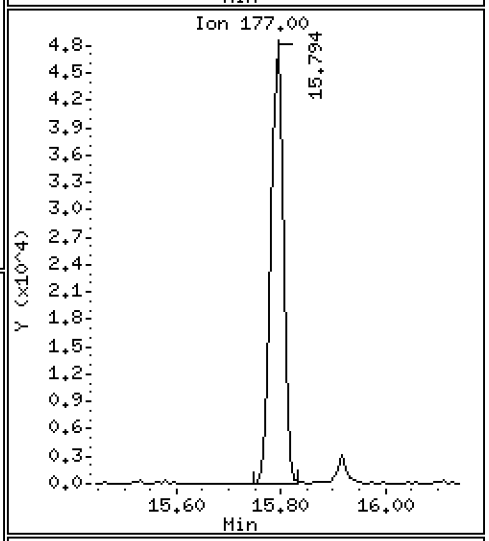
50 Diethylphthalate

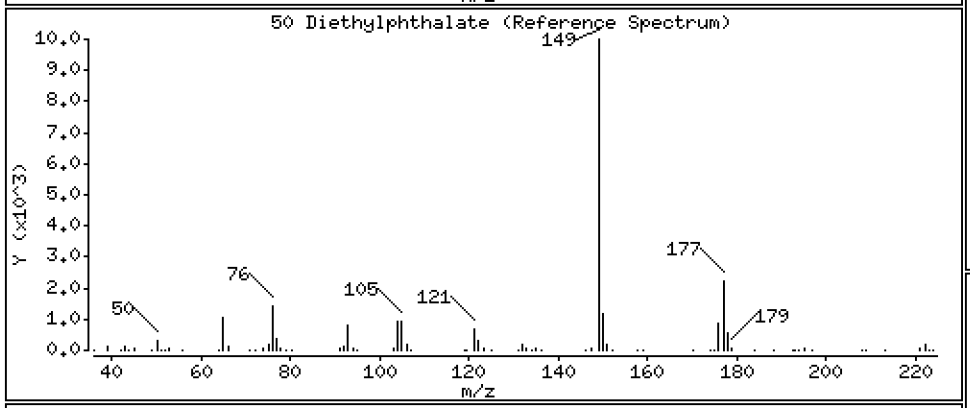
Concentration: 5.443 ug/mL

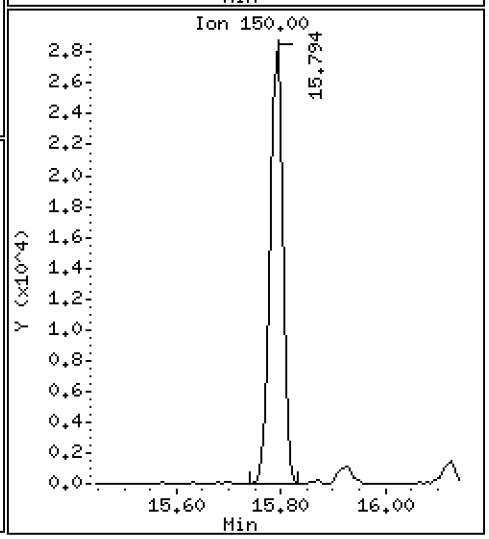


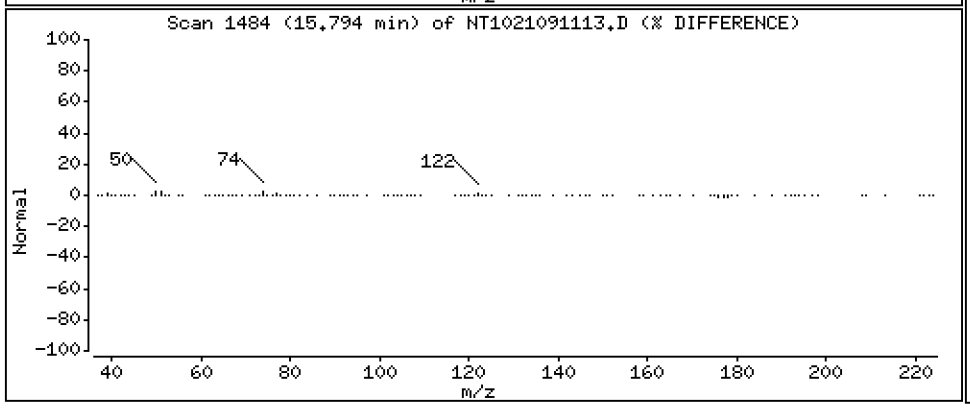












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

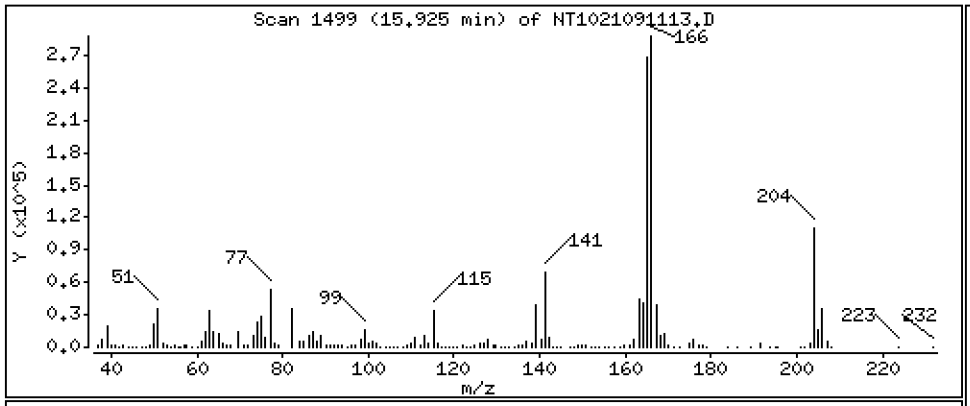
Operator: VTS

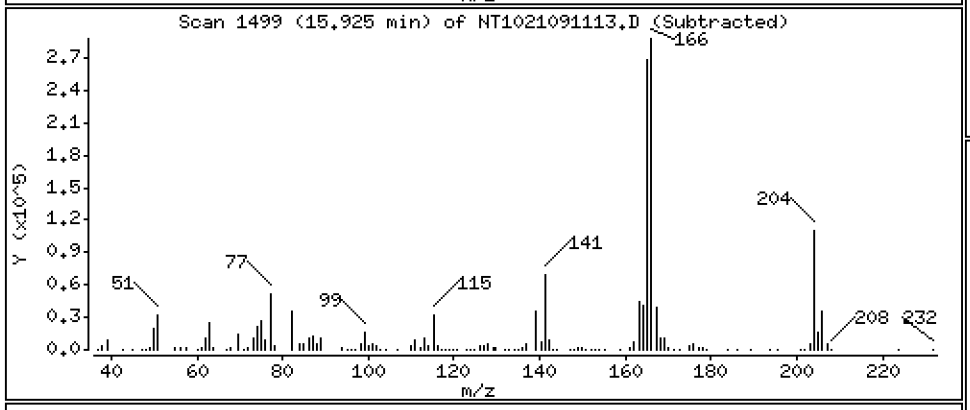
Column phase: ZB-5msi

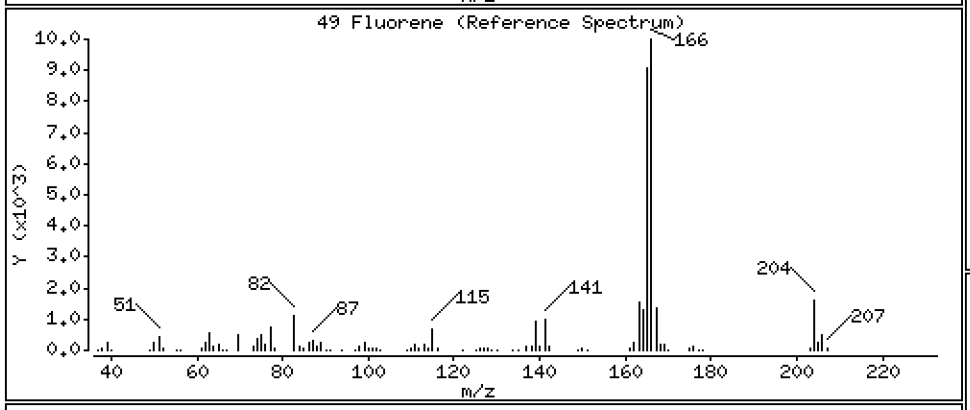
Column diameter: 0.25

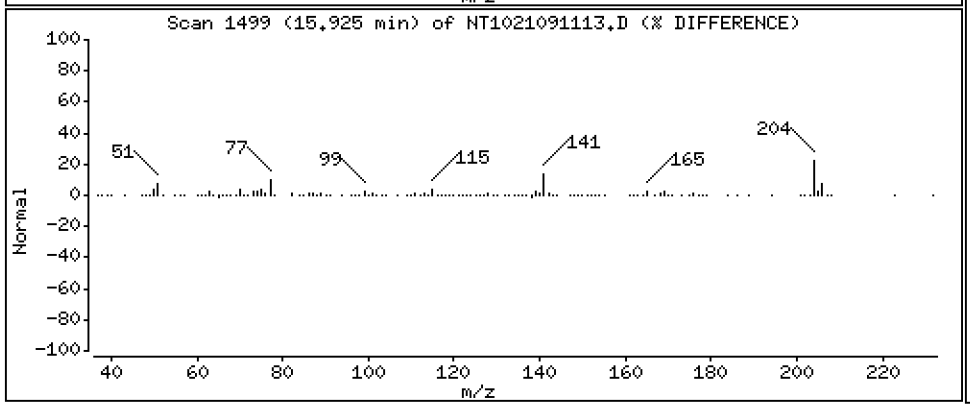
49 Fluorene

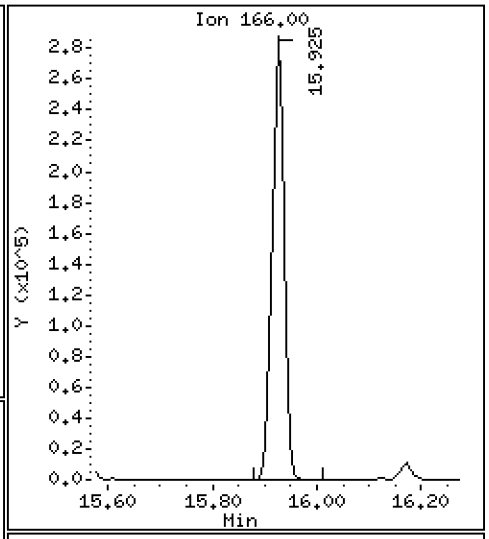
Concentration: 4.616 ug/mL

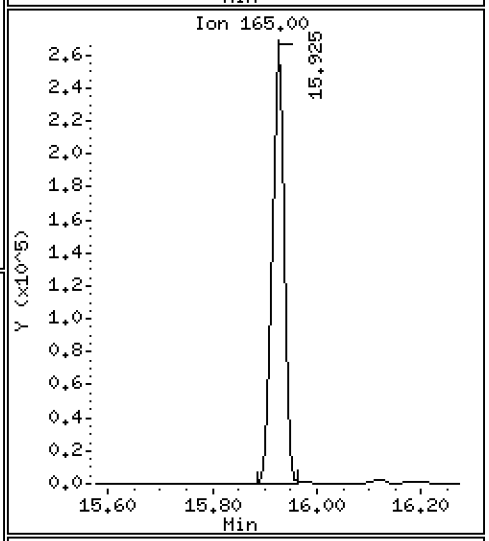


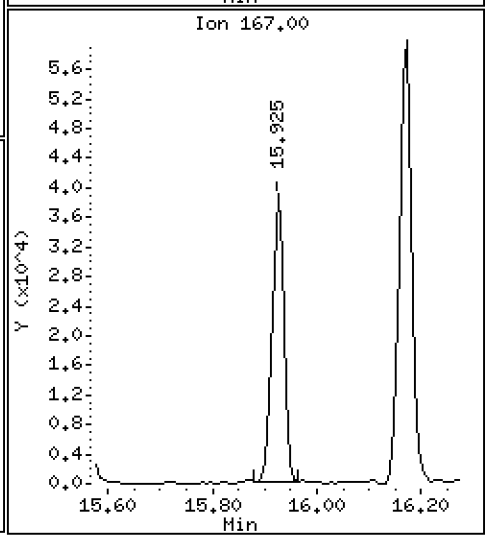












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

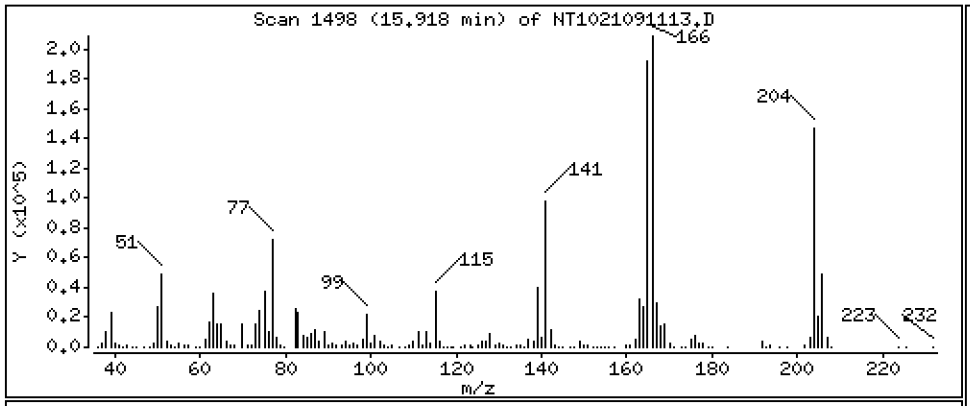
Operator: VTS

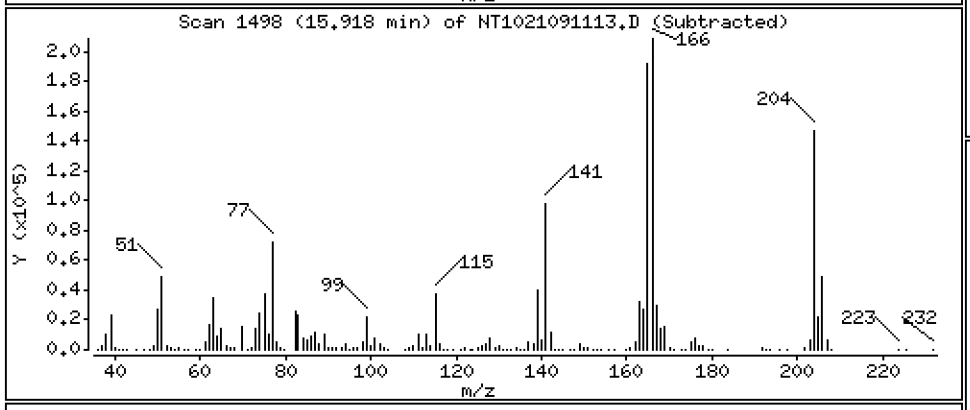
Column phase: ZB-5msi

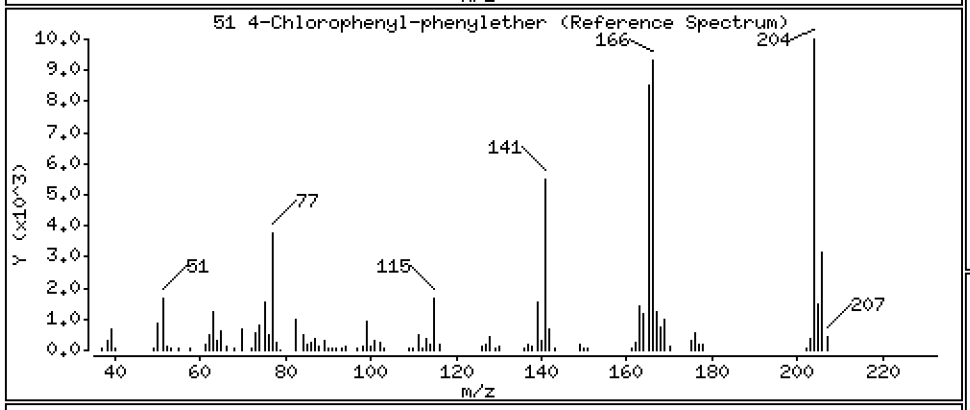
Column diameter: 0.25

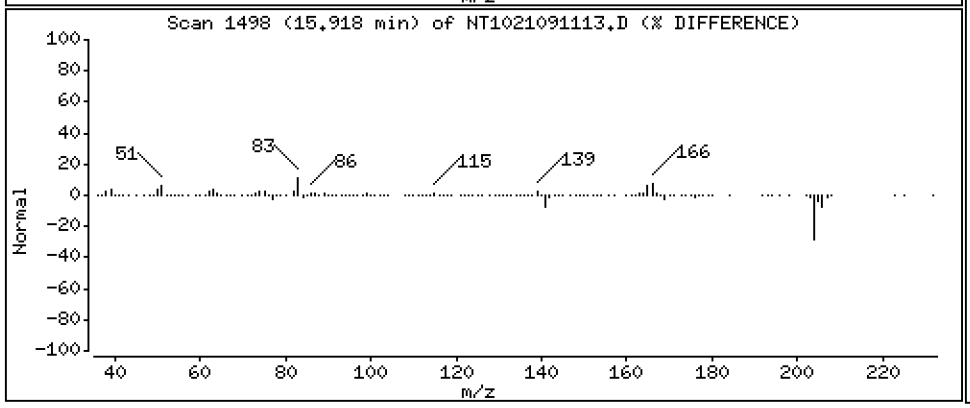
51 4-Chlorophenyl-phenylether

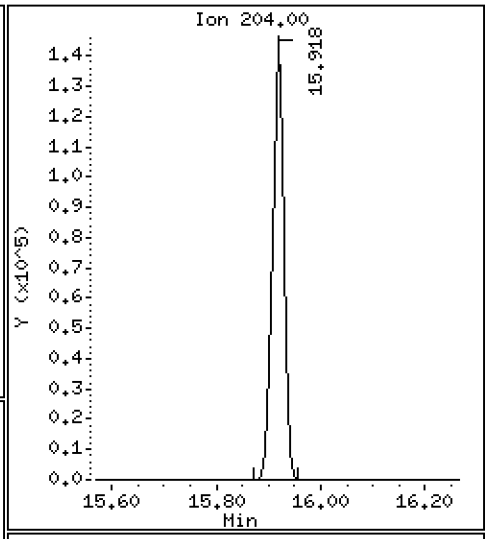
Concentration: 4.917 ug/mL

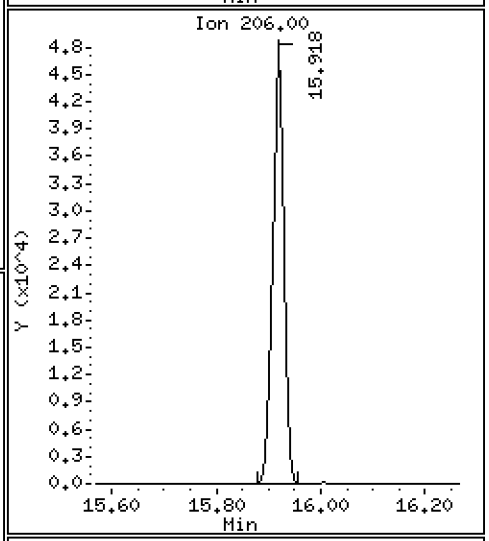


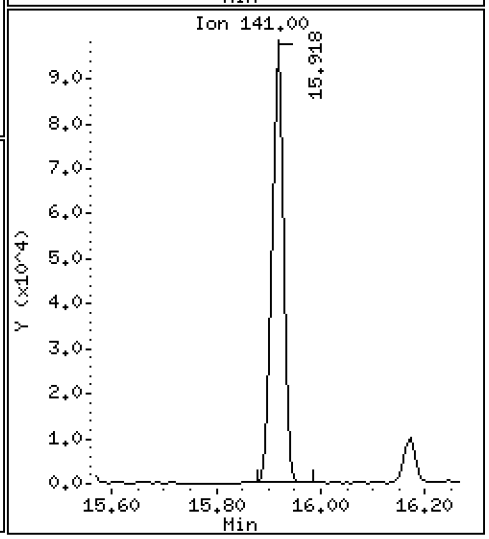












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

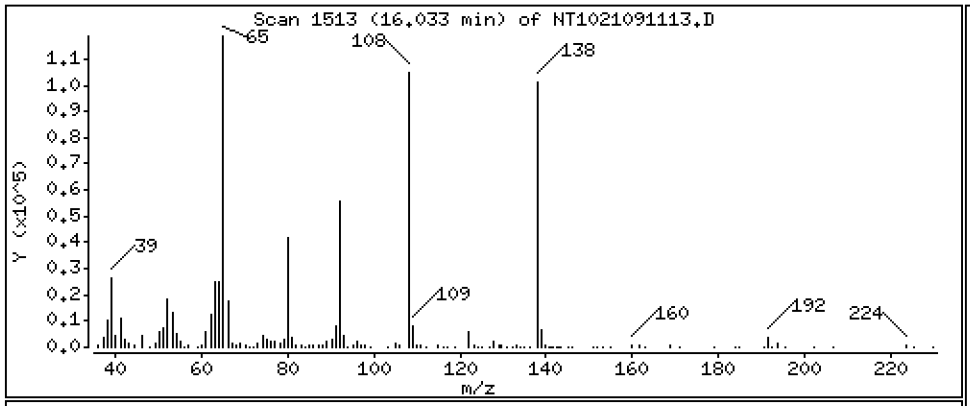
Operator: VTS

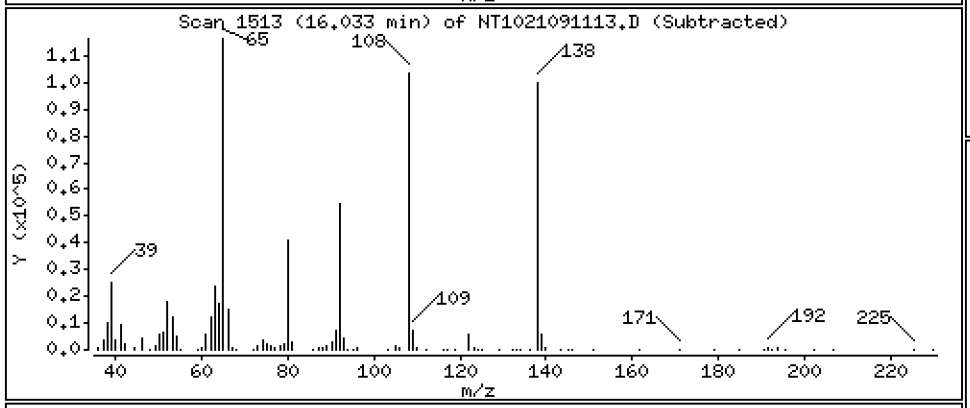
Column phase: ZB-5msi

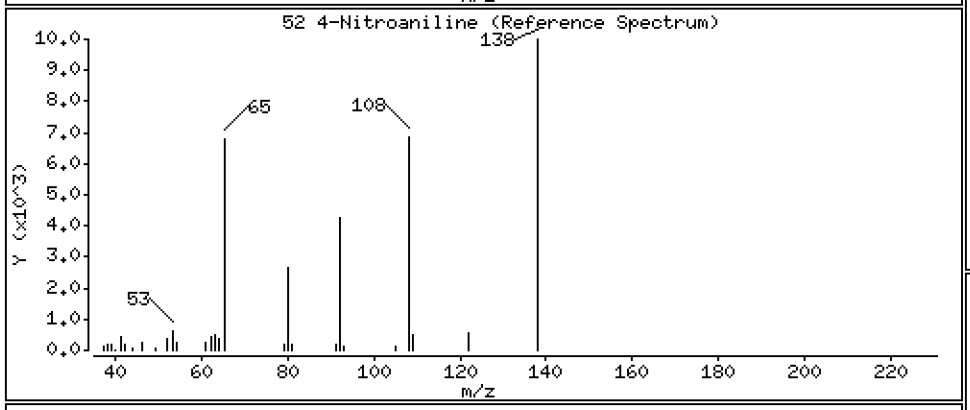
Column diameter: 0.25

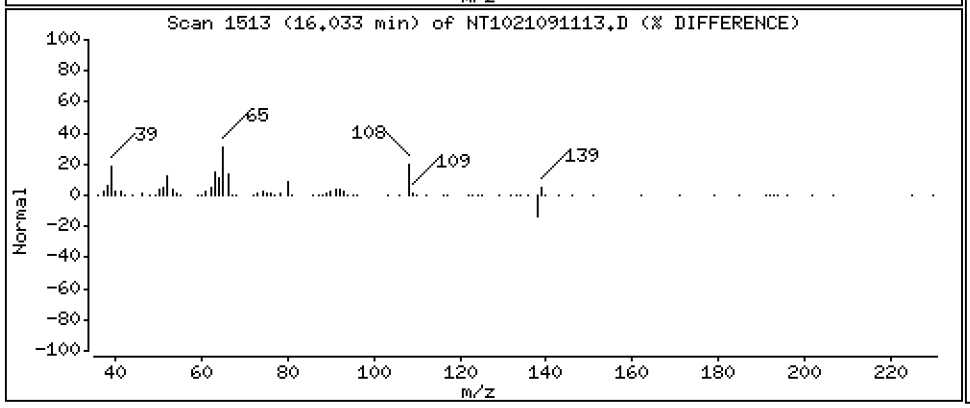
52 4-Nitroaniline

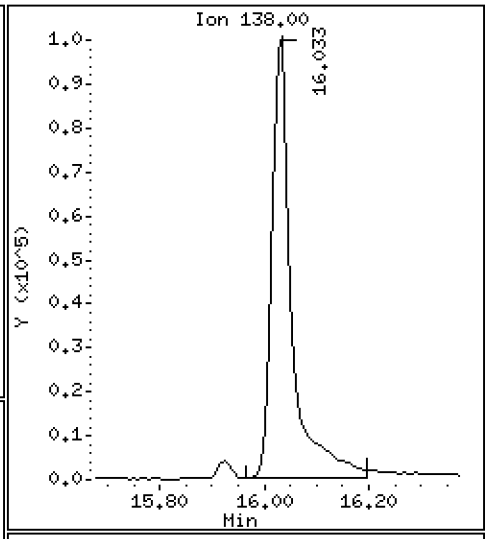
Concentration: 10.87 ug/mL

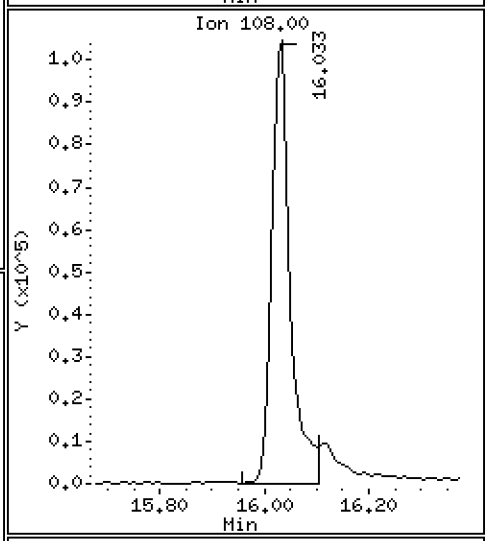


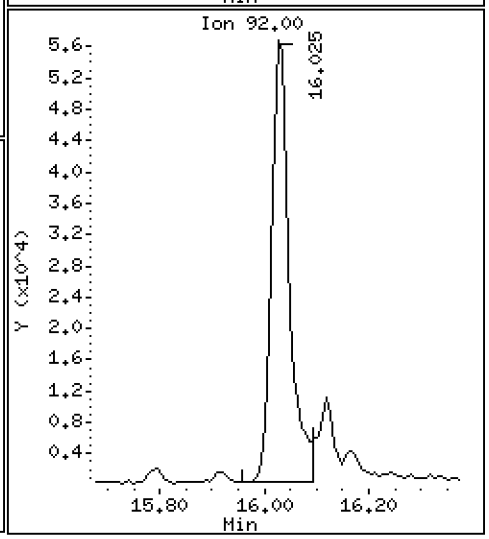












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

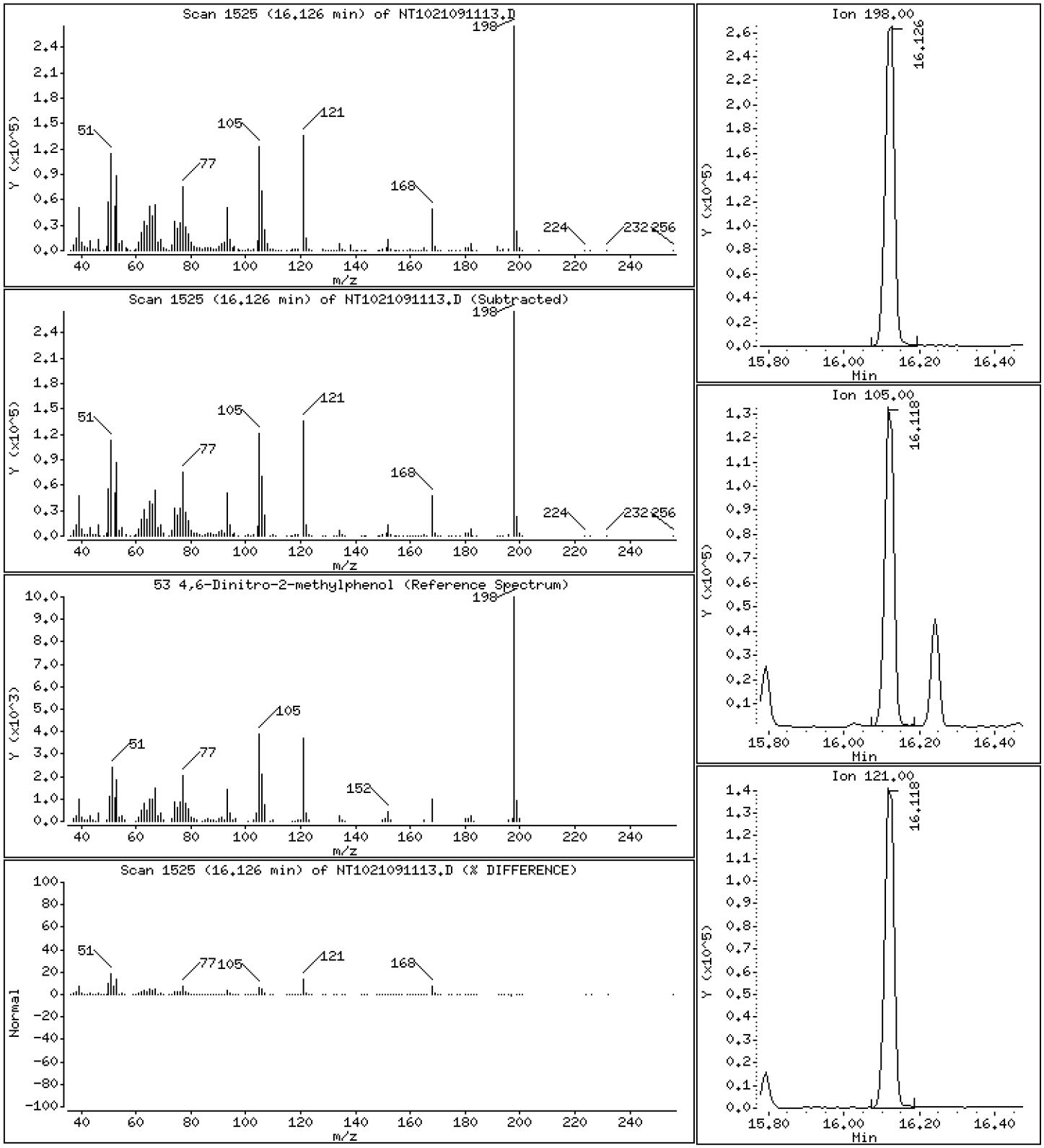
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

53 4,6-Dinitro-2-methylphenol

Concentration: 28.31 ug/mL



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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

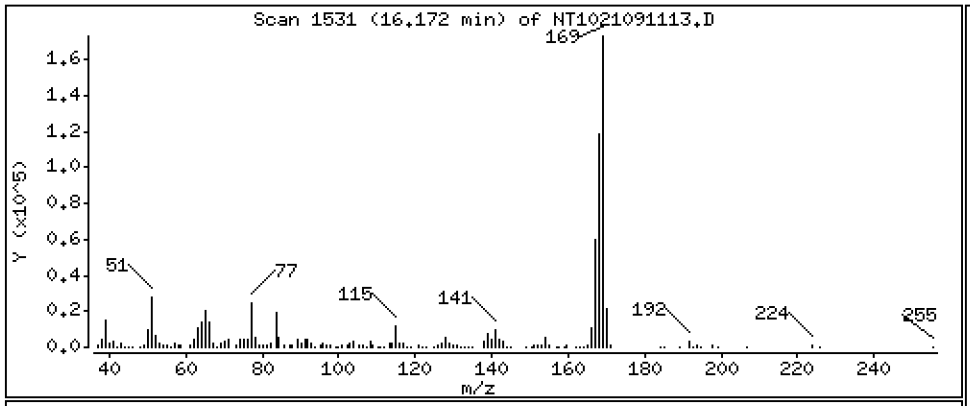
Operator: VTS

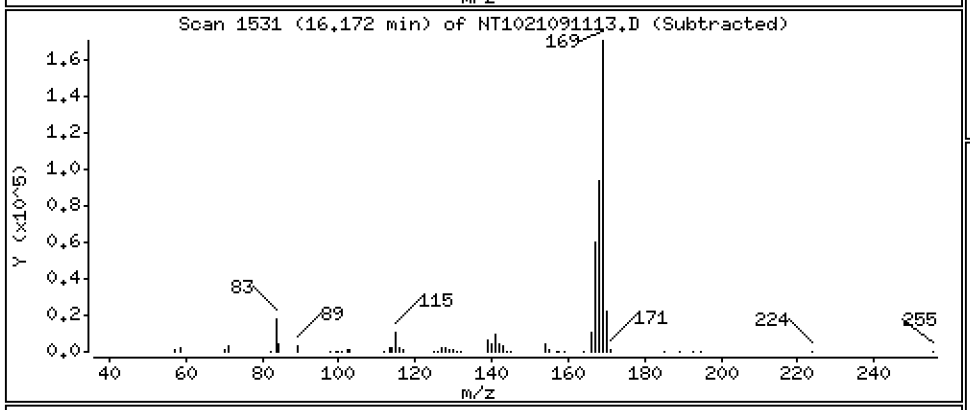
Column phase: ZB-5msi

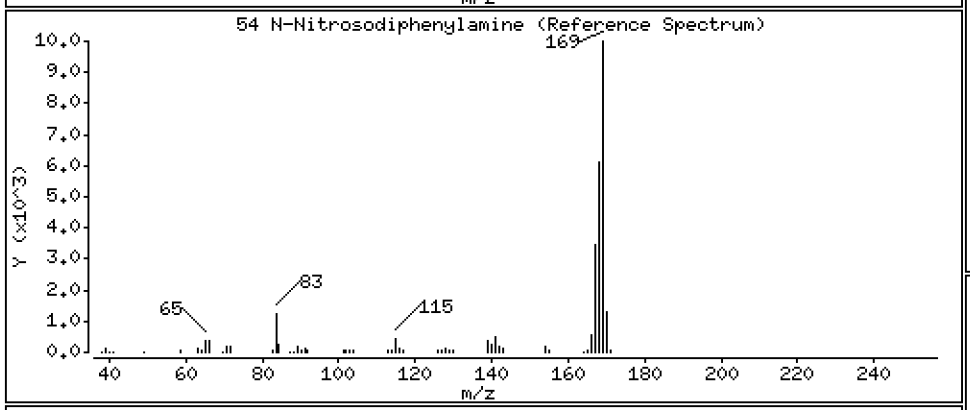
Column diameter: 0.25

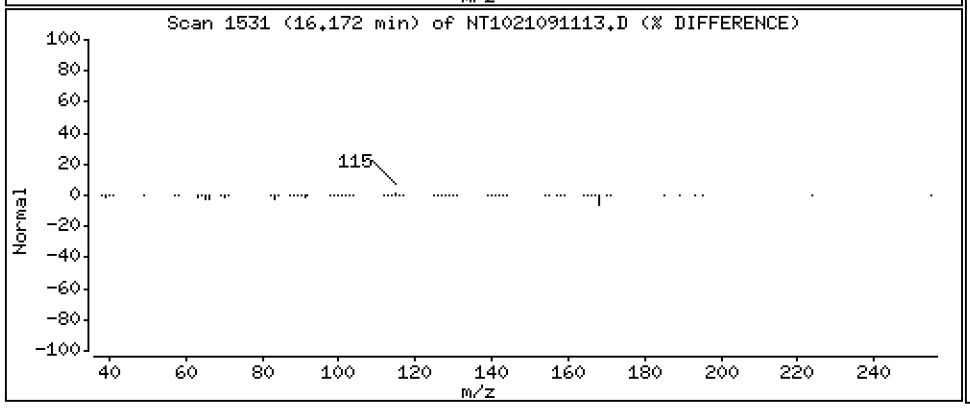
54 N-Nitrosodiphenylamine

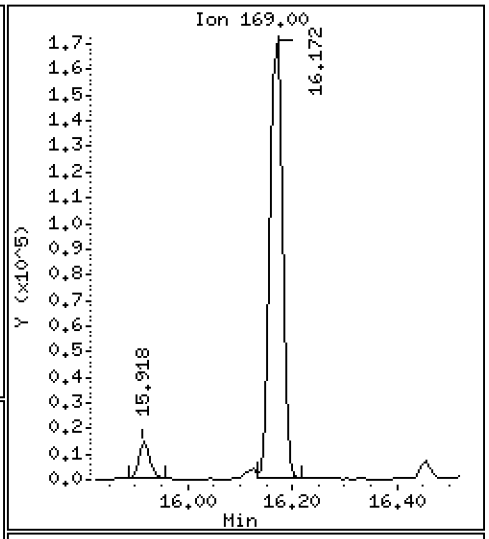
Concentration: 4.930 ug/mL

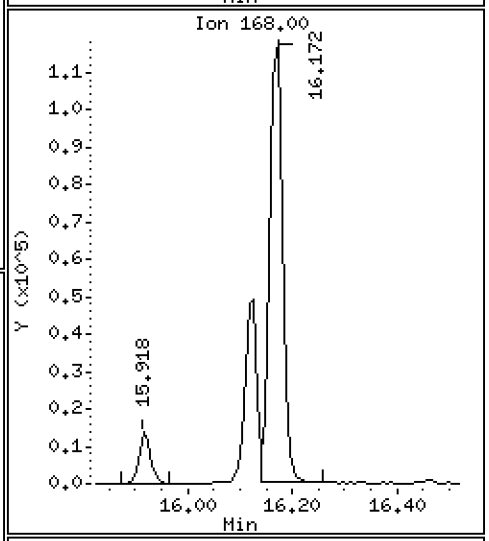


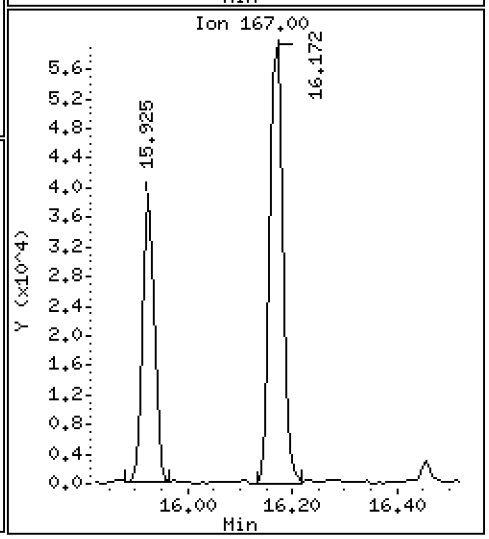












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

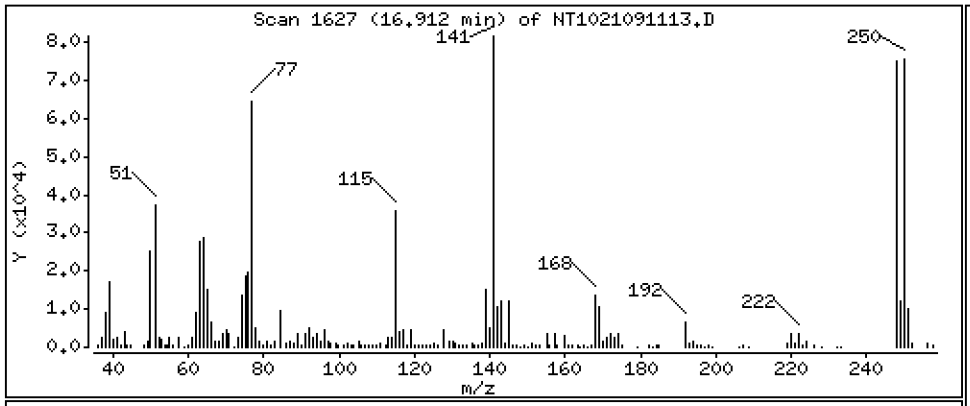
Operator: VTS

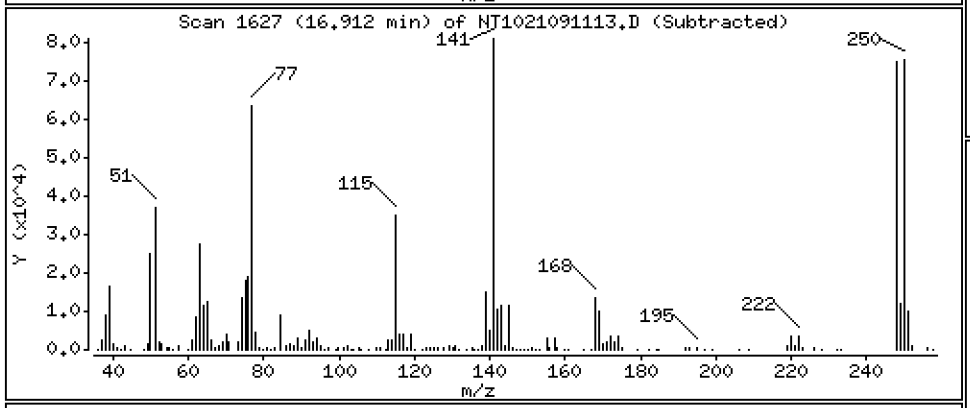
Column phase: ZB-5msi

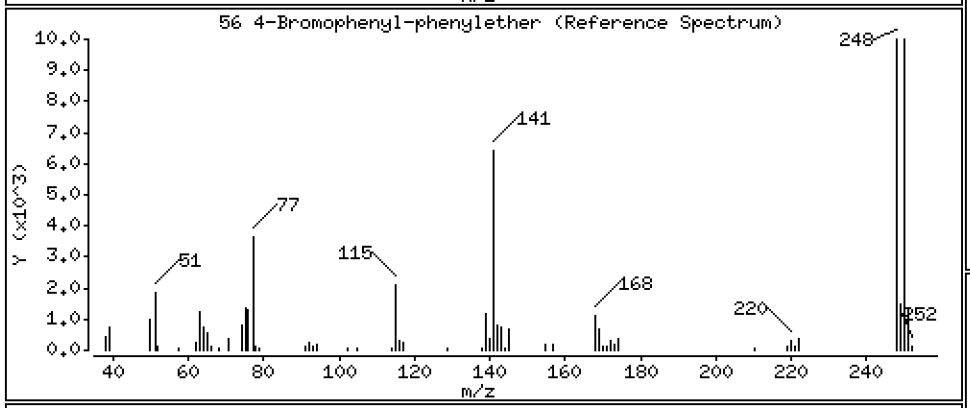
Column diameter: 0.25

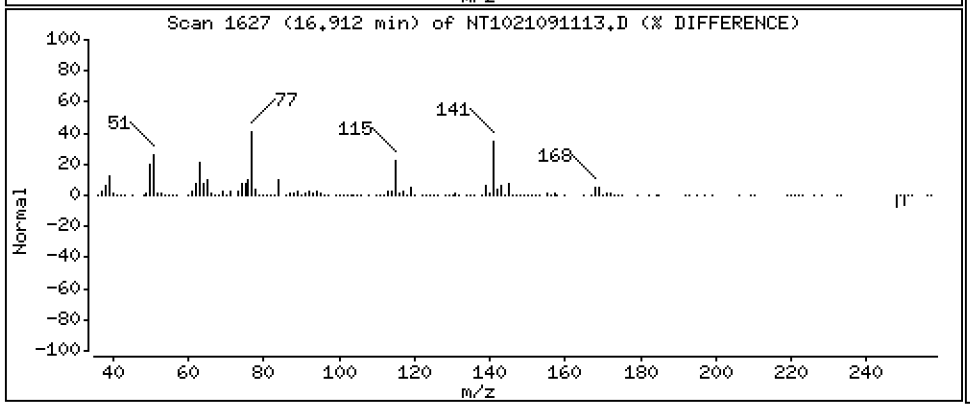
56 4-Bromophenyl-phenylether

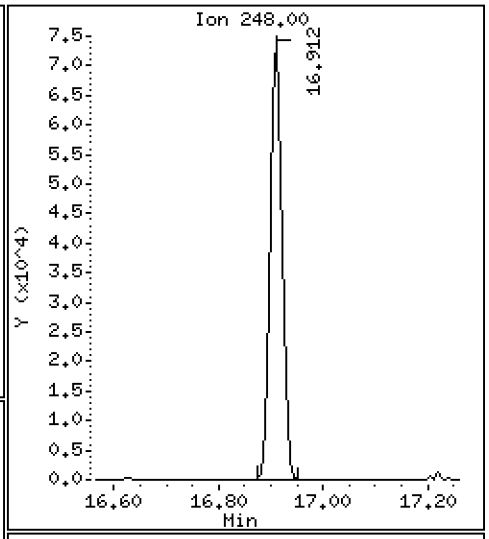
Concentration: 5.249 ug/mL

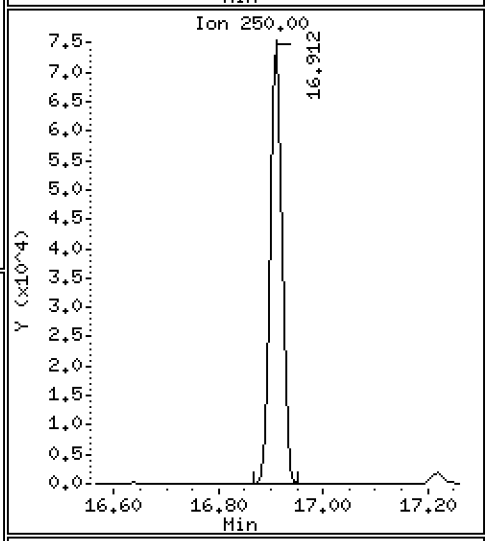


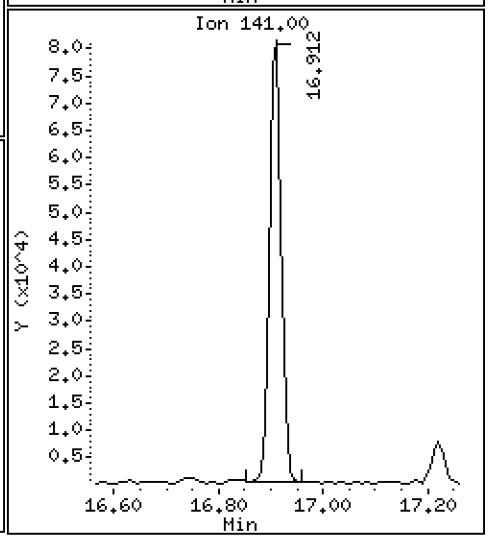












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

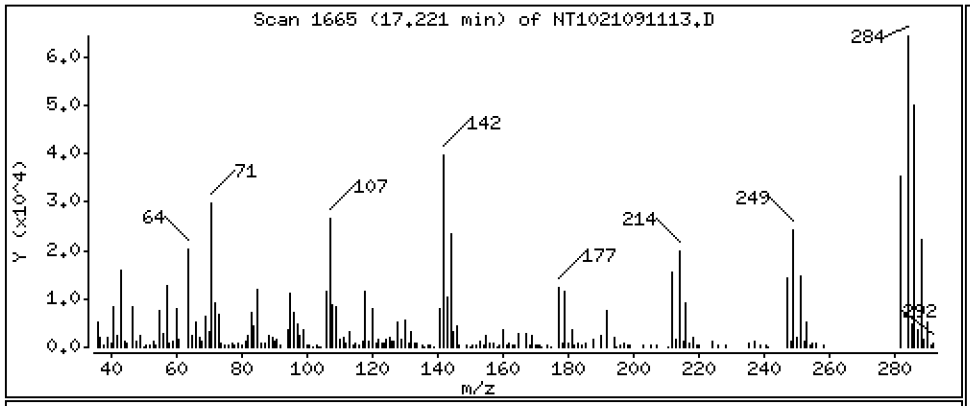
Operator: VTS

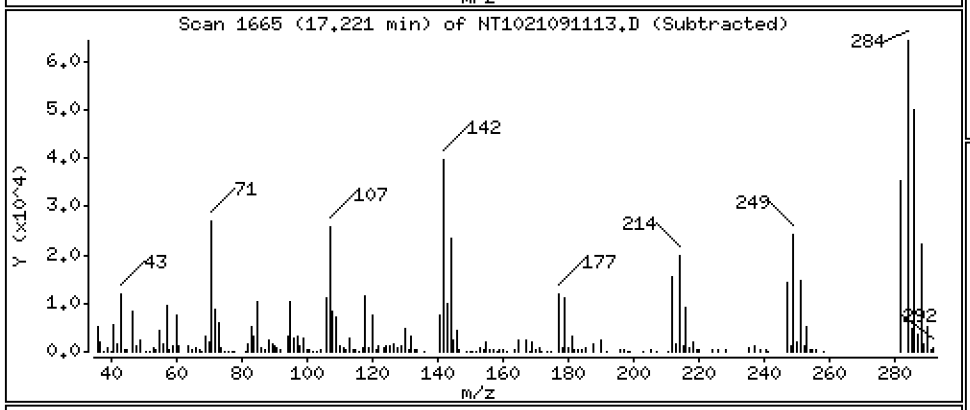
Column phase: ZB-5msi

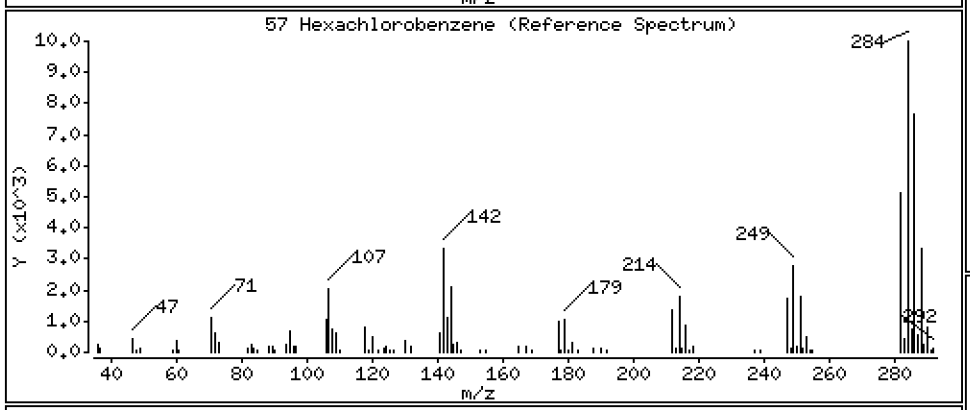
Column diameter: 0.25

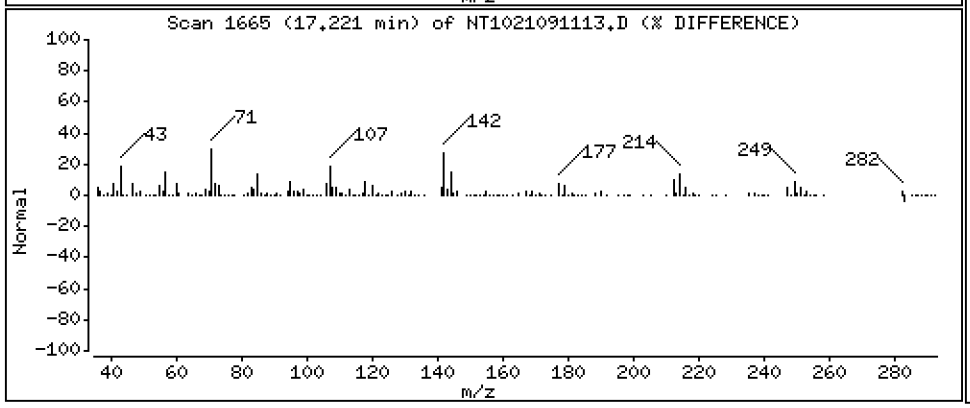
57 Hexachlorobenzene

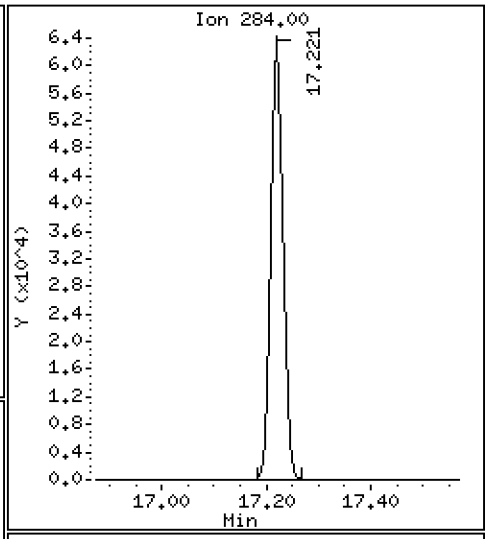
Concentration: 4.862 ug/mL

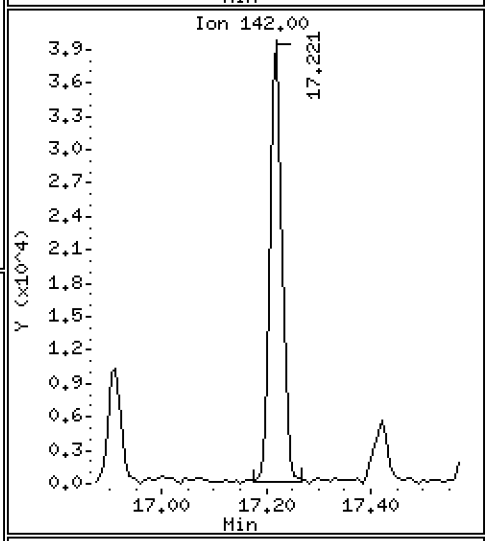


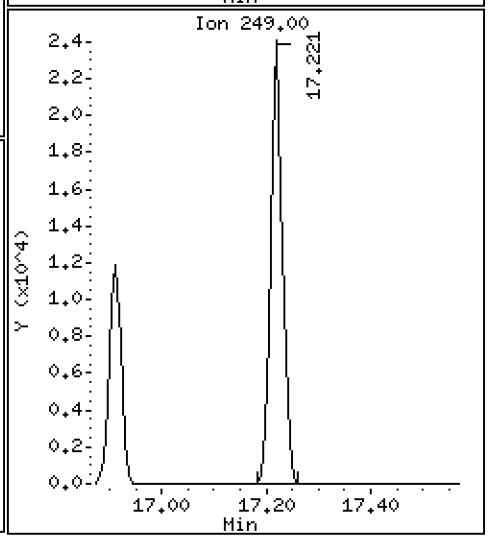












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

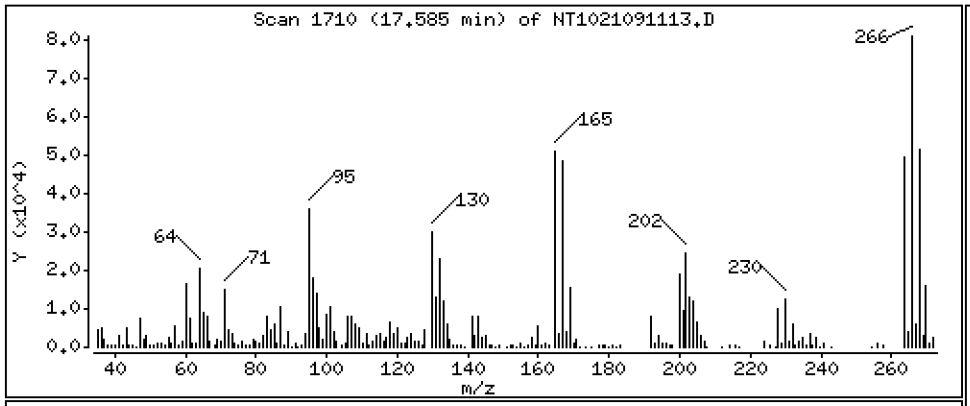
Operator: VTS

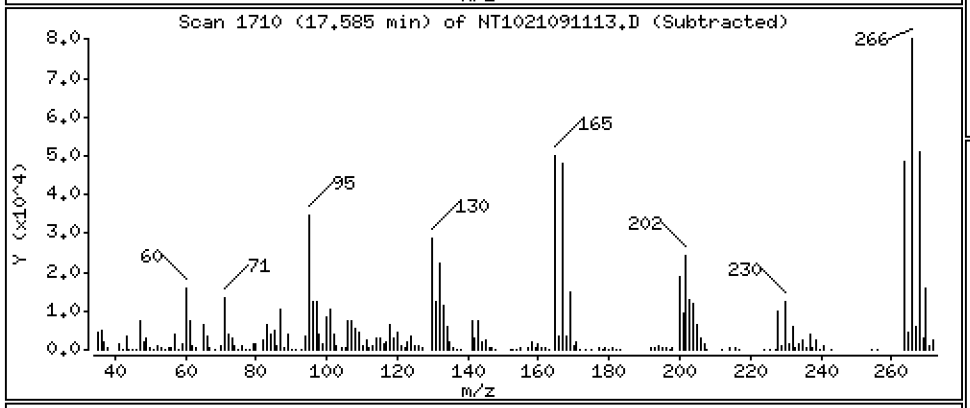
Column phase: ZB-5msi

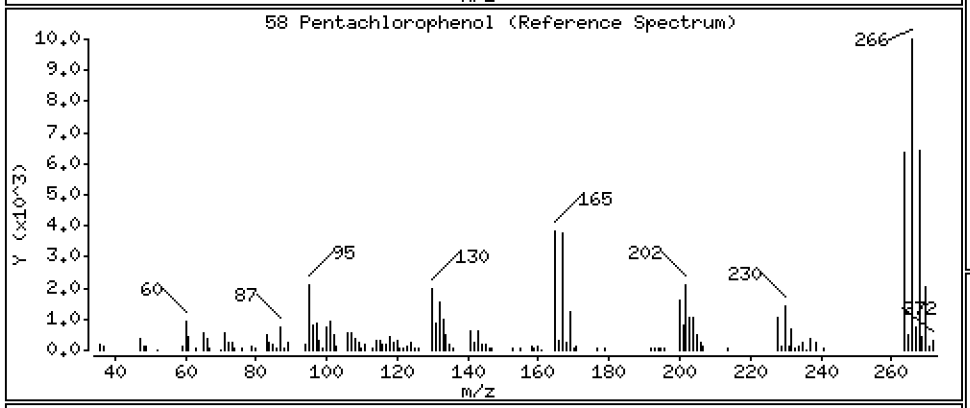
Column diameter: 0.25

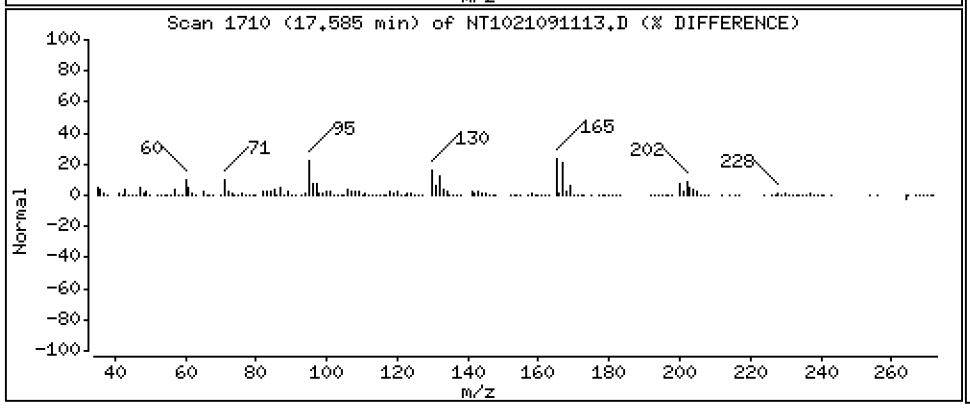
58 Pentachlorophenol

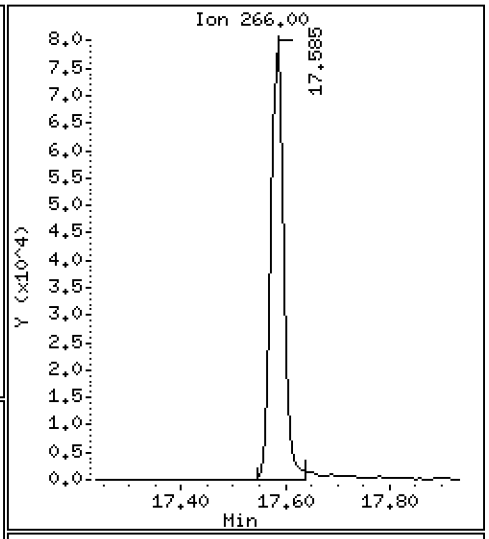
Concentration: 15.95 ug/mL

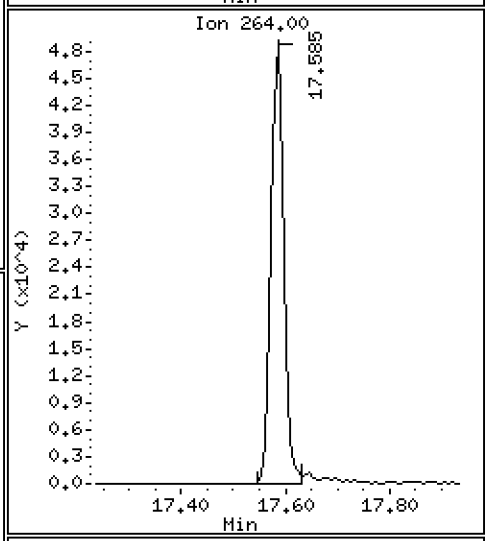


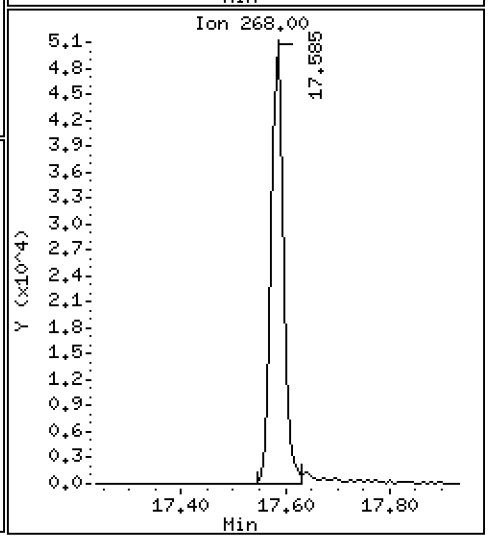












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

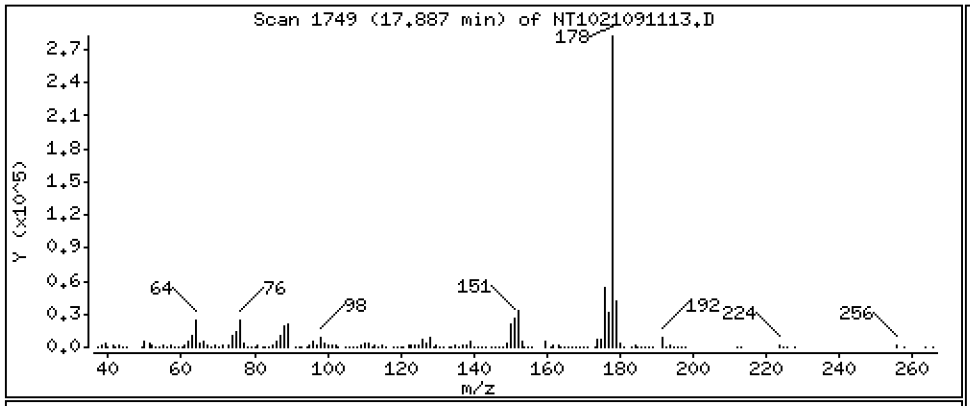
Operator: VTS

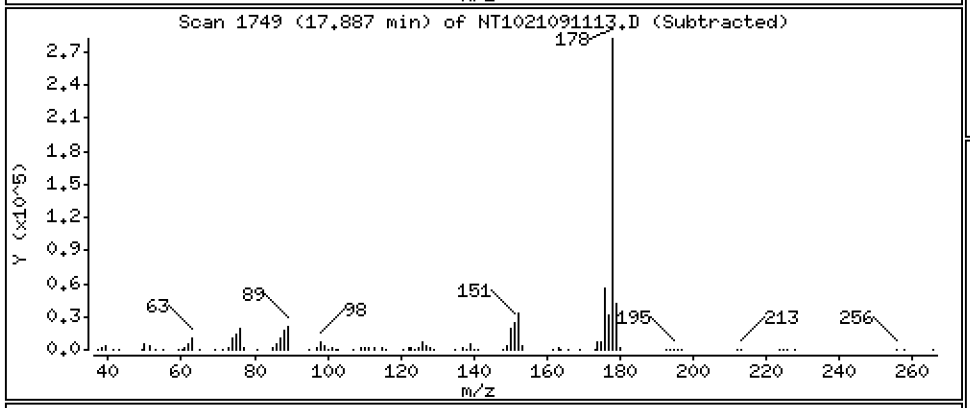
Column phase: ZB-5msi

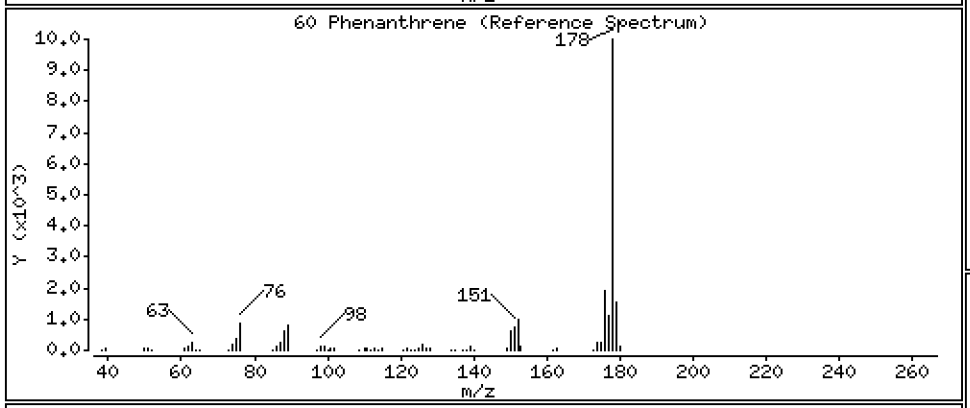
Column diameter: 0.25

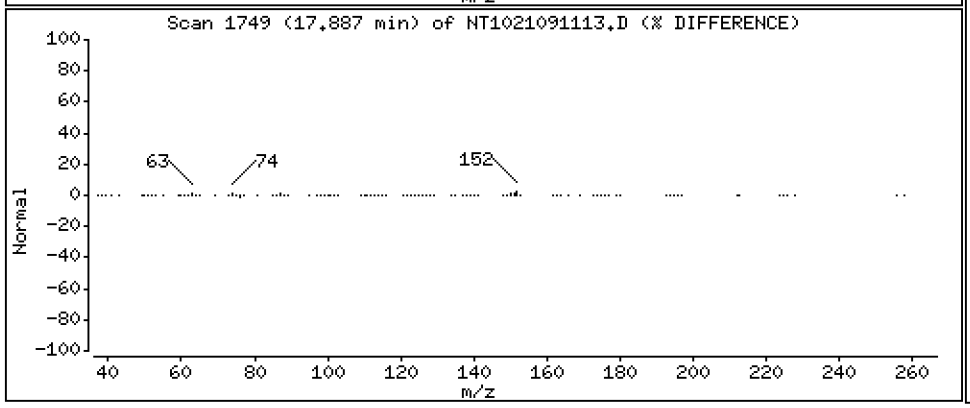
60 Phenanthrene

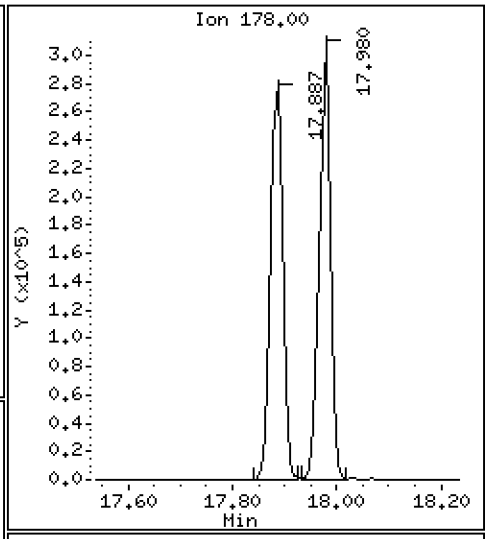
Concentration: 4.831 ug/mL

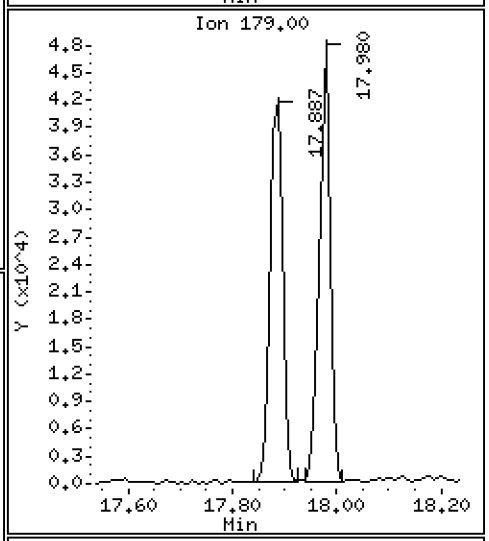


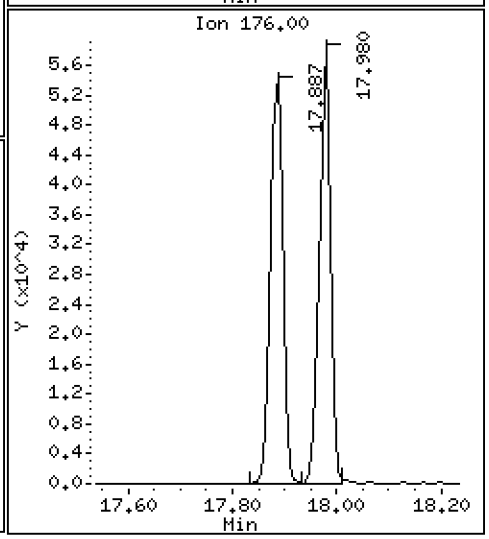












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

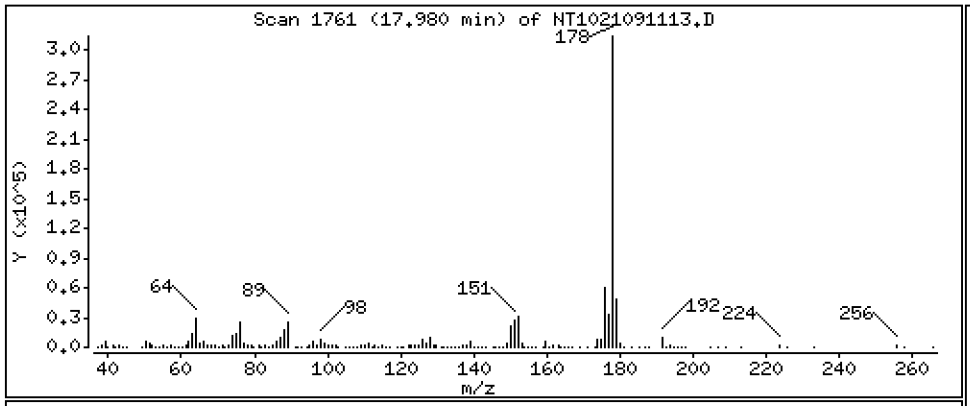
Operator: VTS

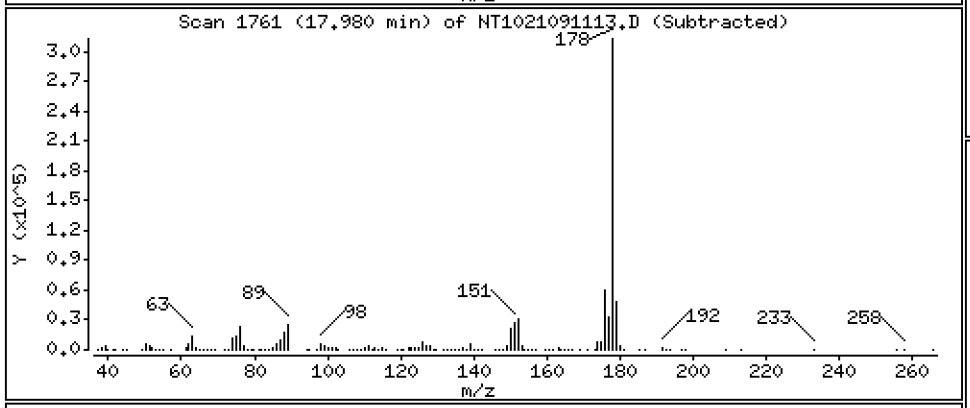
Column phase: ZB-5msi

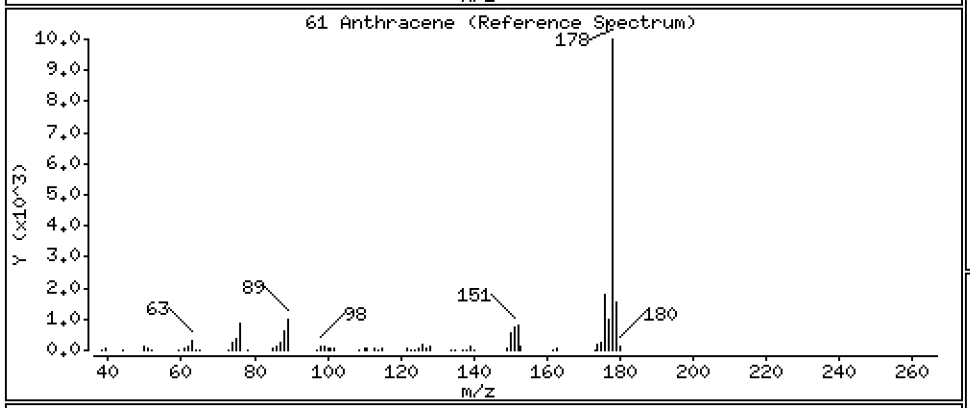
Column diameter: 0.25

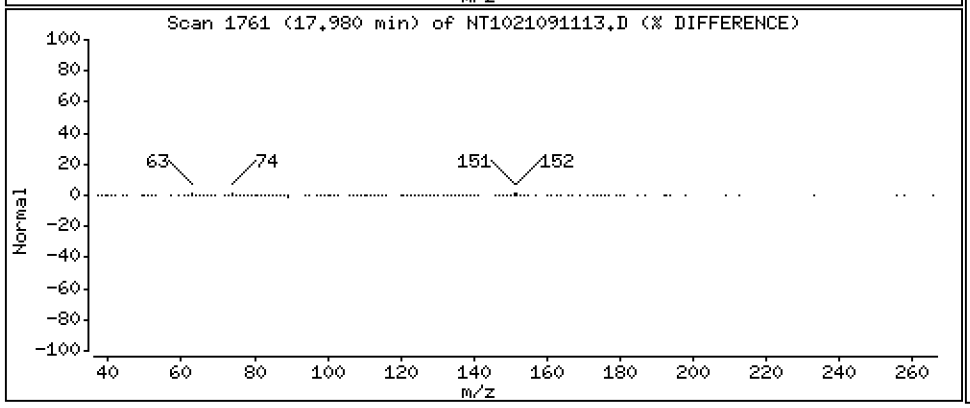
61 Anthracene

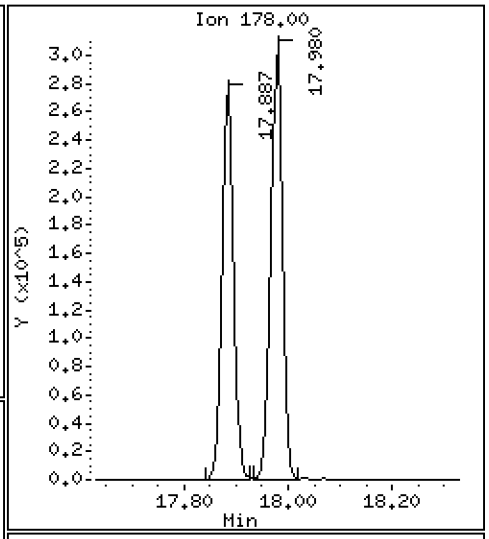
Concentration: 4.589 ug/mL

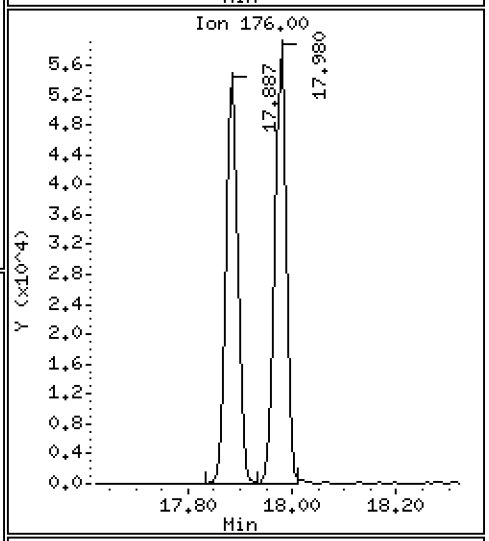


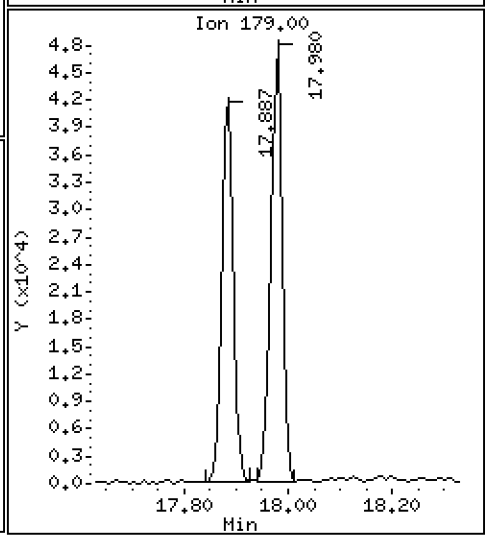












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

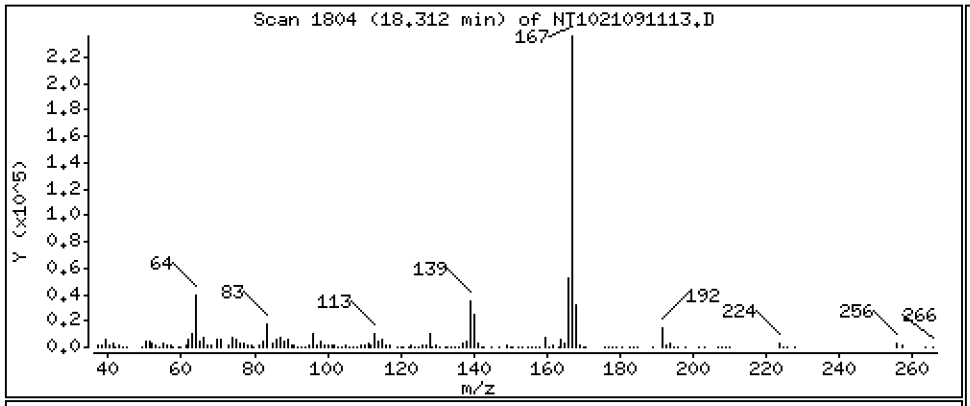
Operator: VTS

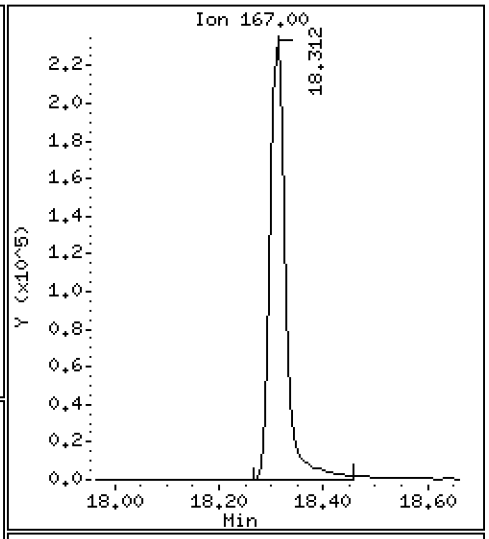
Column phase: ZB-5msi

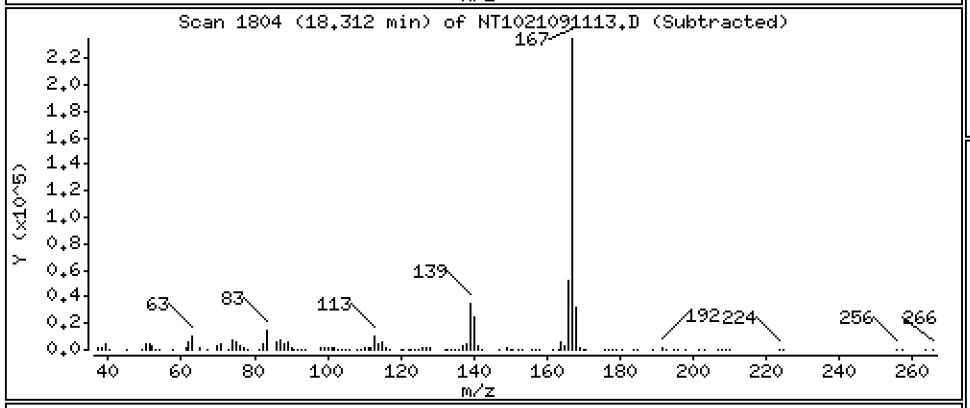
Column diameter: 0.25

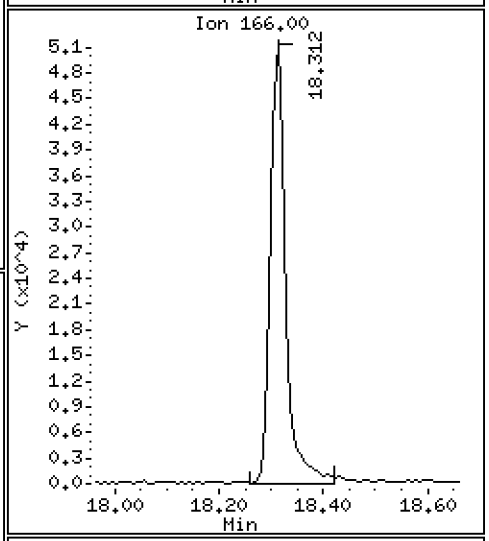
62 Carbazole

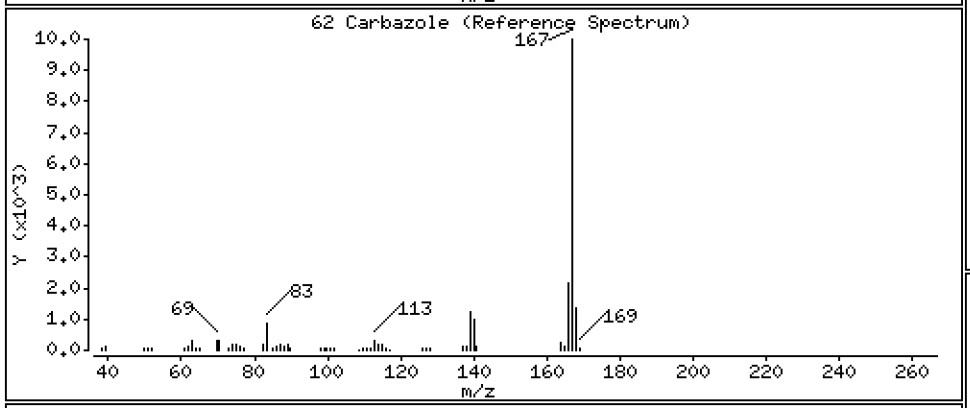
Concentration: 4.688 ug/mL

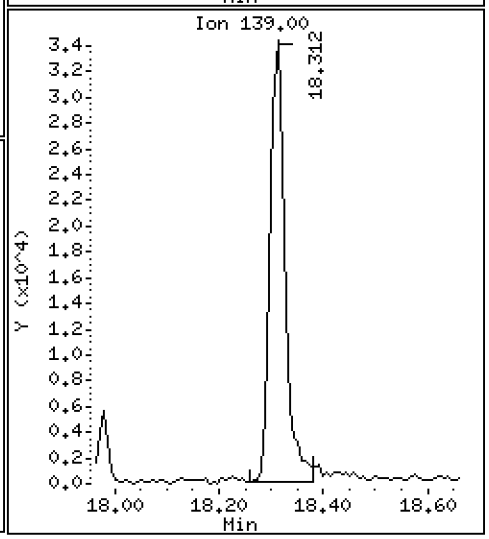


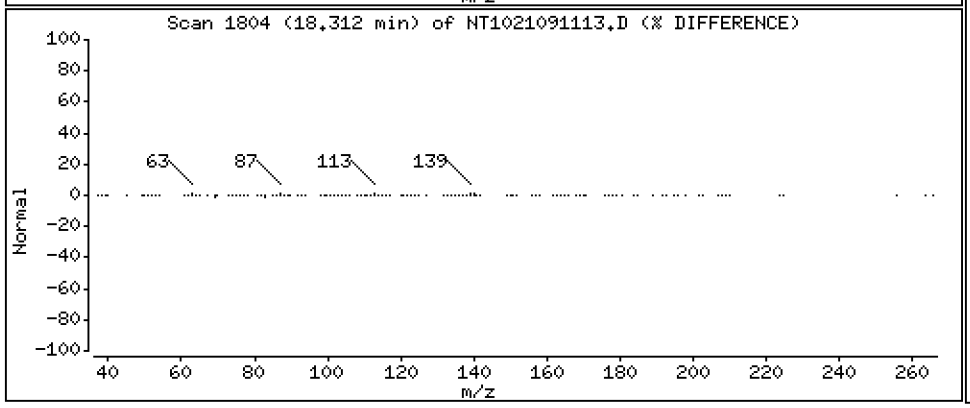












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

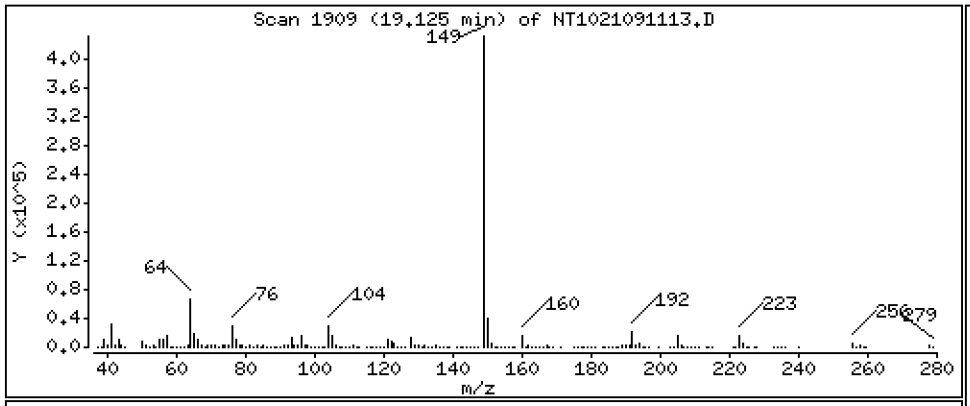
Operator: VTS

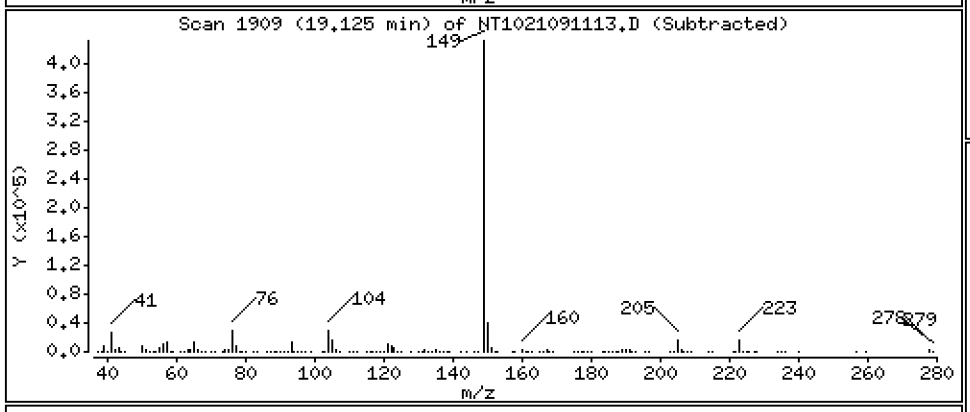
Column phase: ZB-5msi

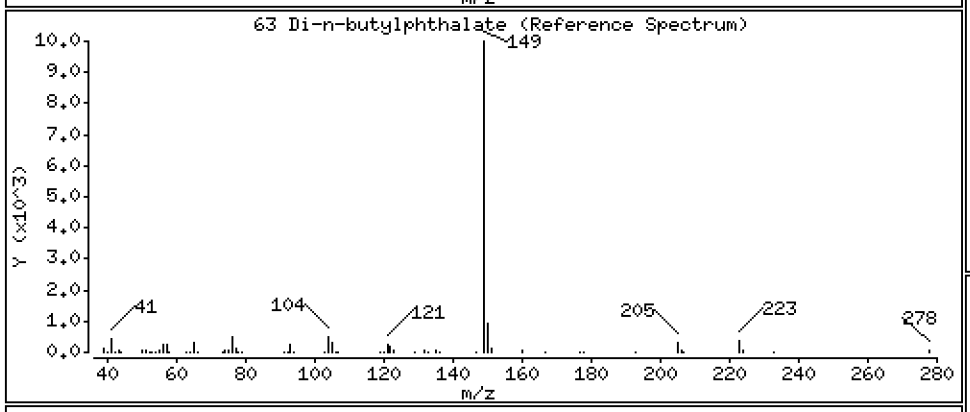
Column diameter: 0.25

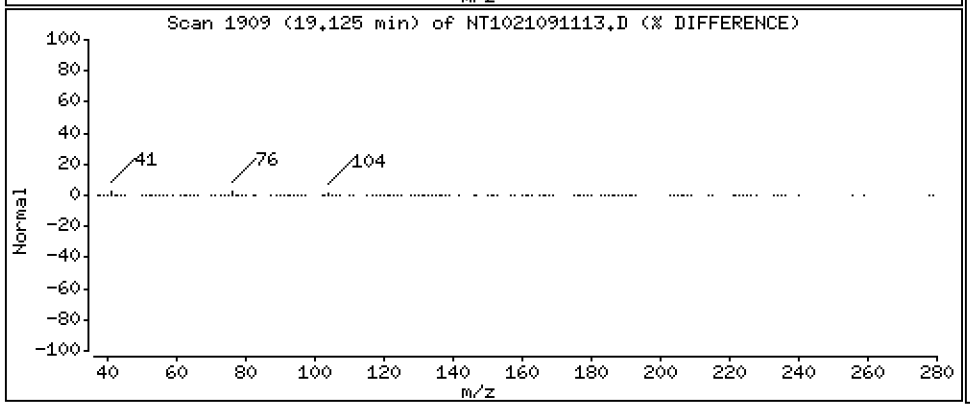
63 Di-n-butylphthalate

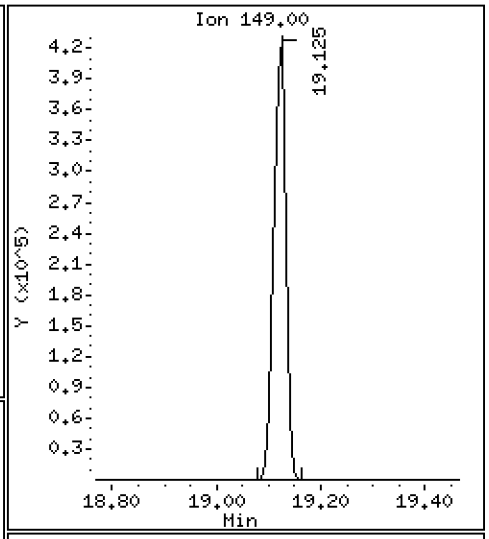
Concentration: 5.375 ug/mL

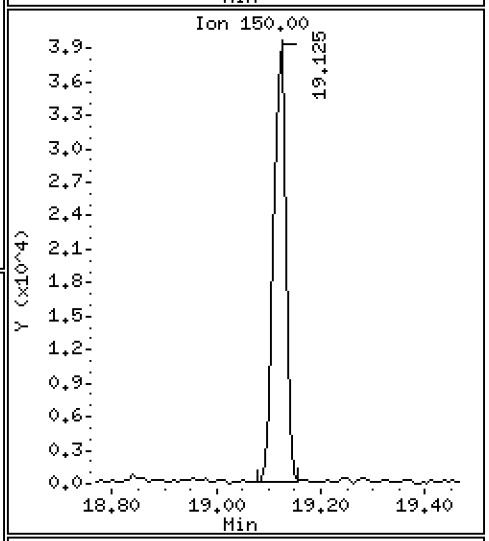


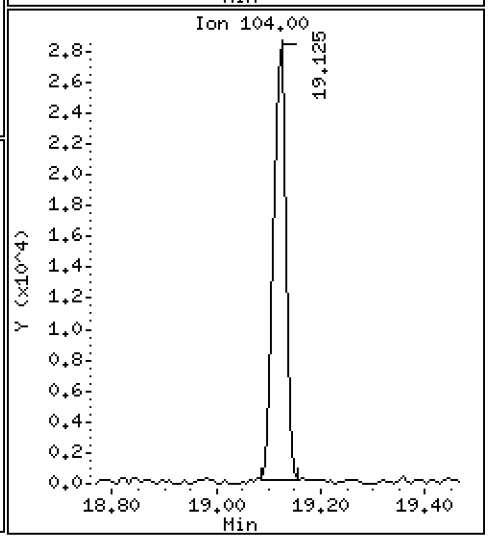












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

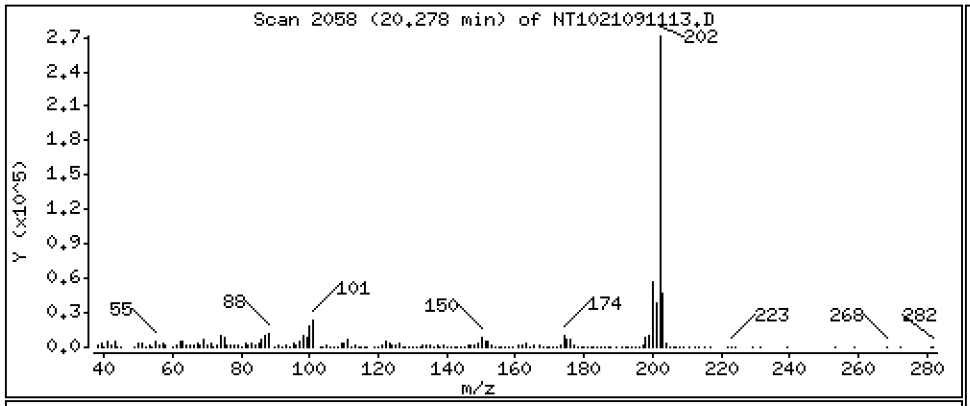
Operator: VTS

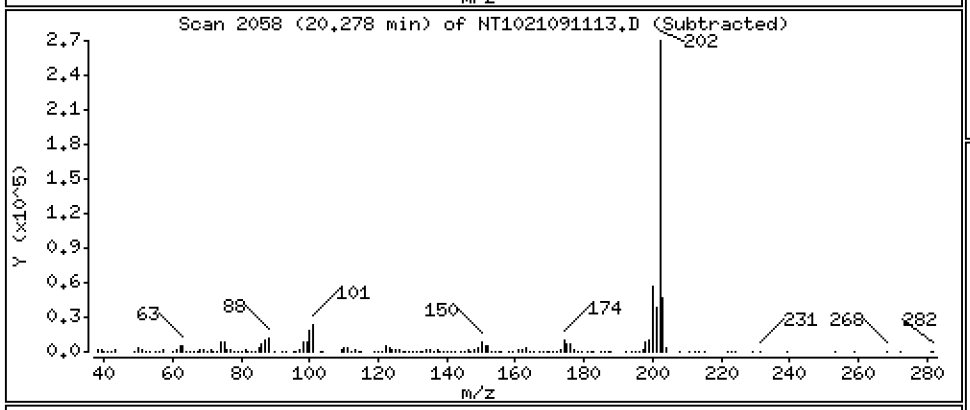
Column phase: ZB-5msi

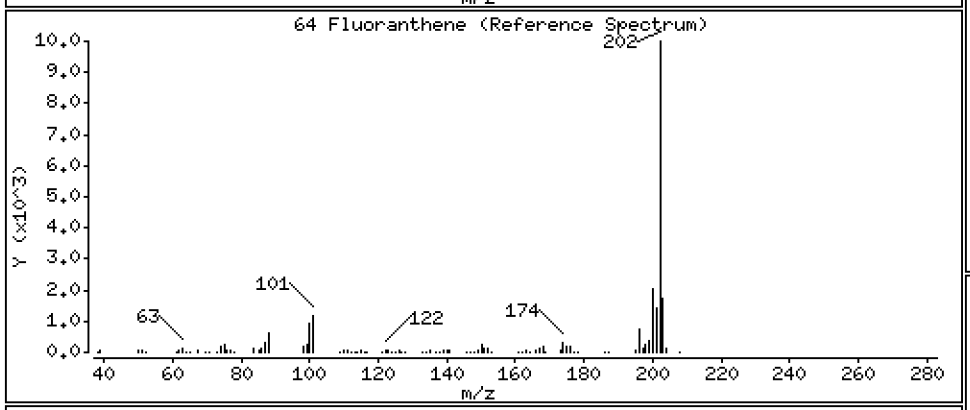
Column diameter: 0.25

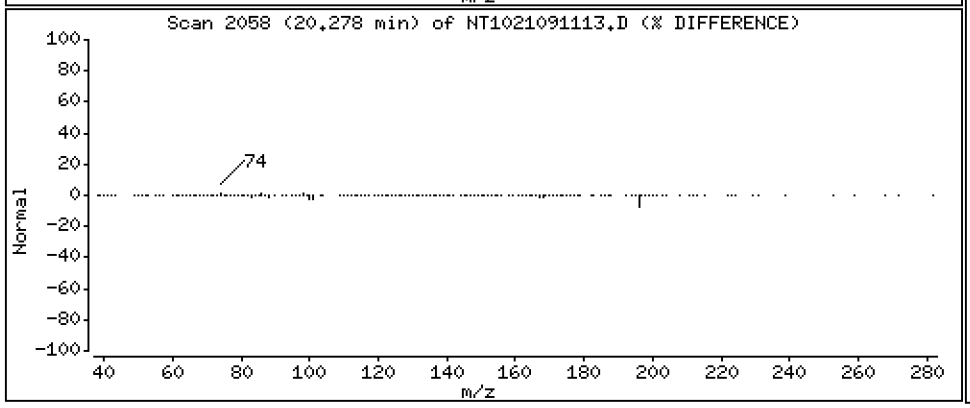
64 Fluoranthene

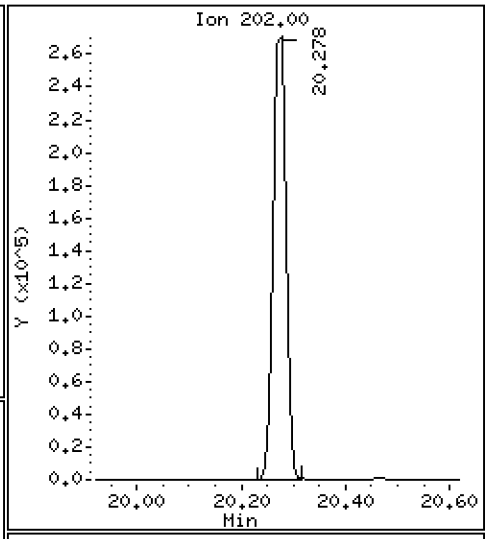
Concentration: 6.227 ug/mL

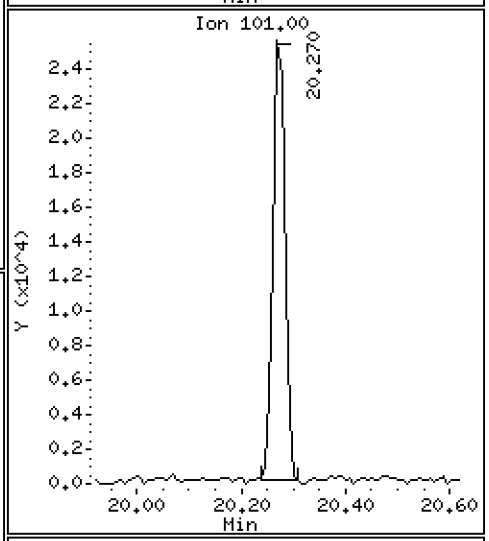


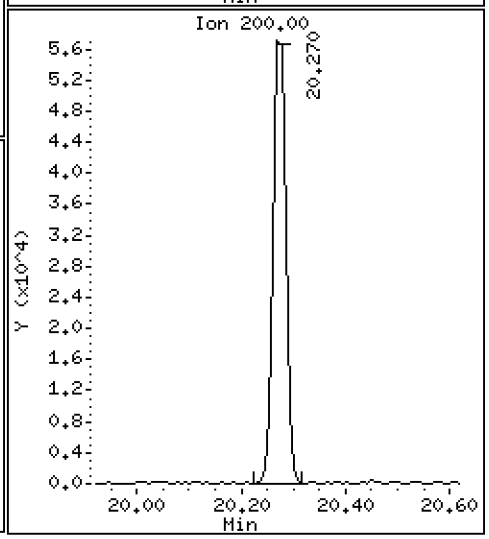












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

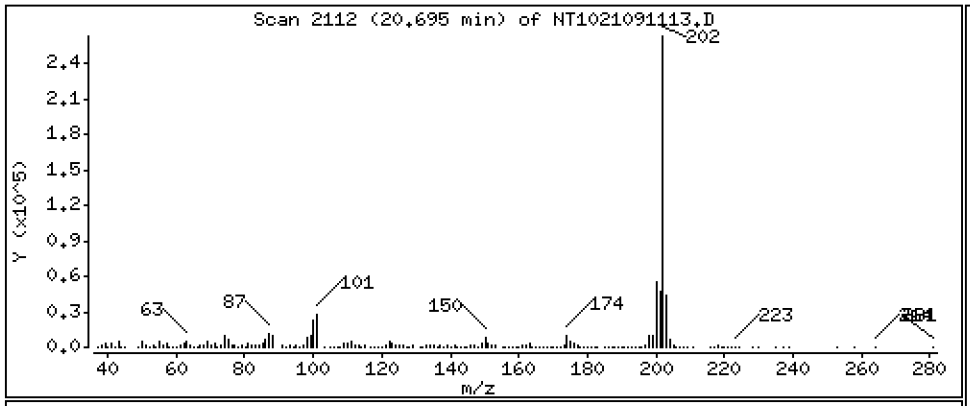
Operator: VTS

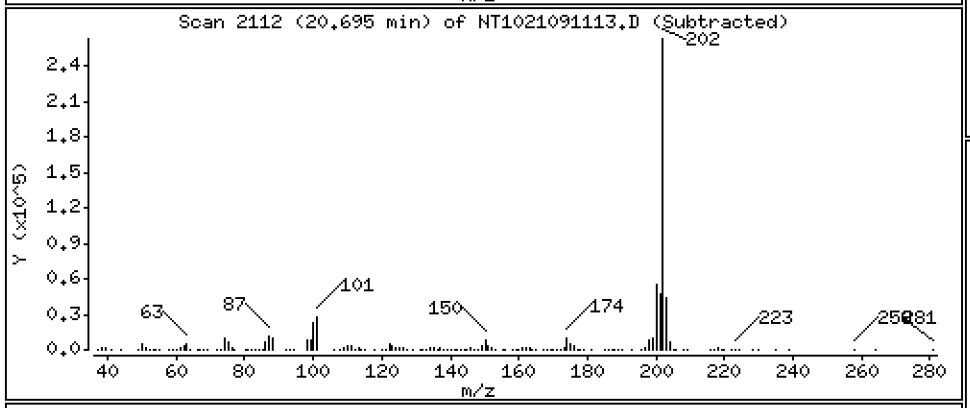
Column phase: ZB-5msi

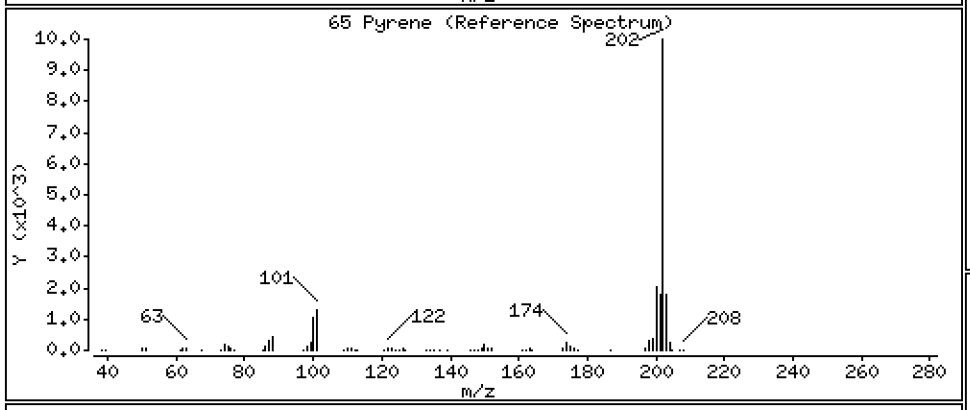
Column diameter: 0.25

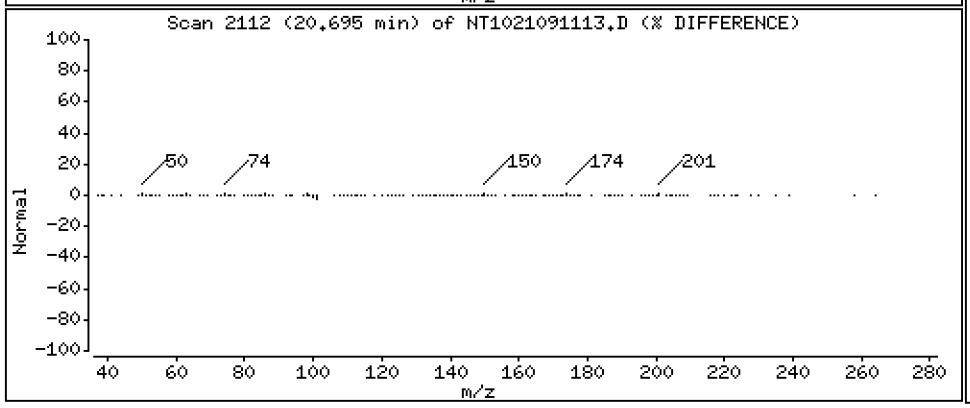
65 Pyrene

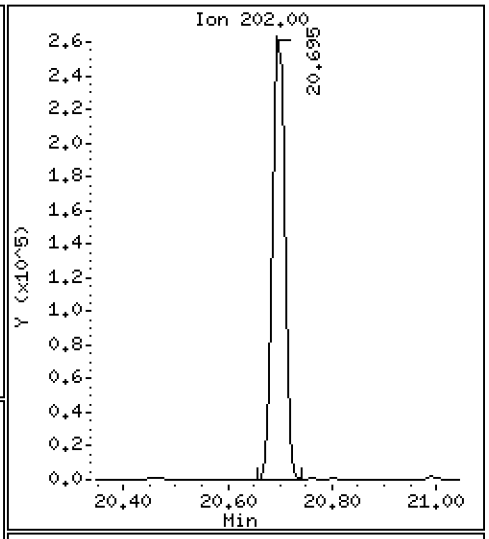
Concentration: 5.670 ug/mL

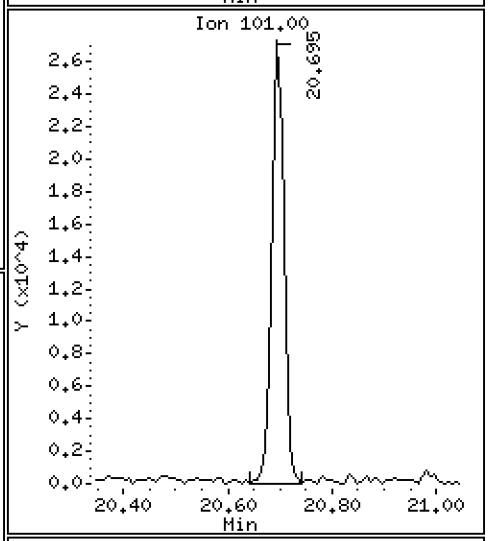


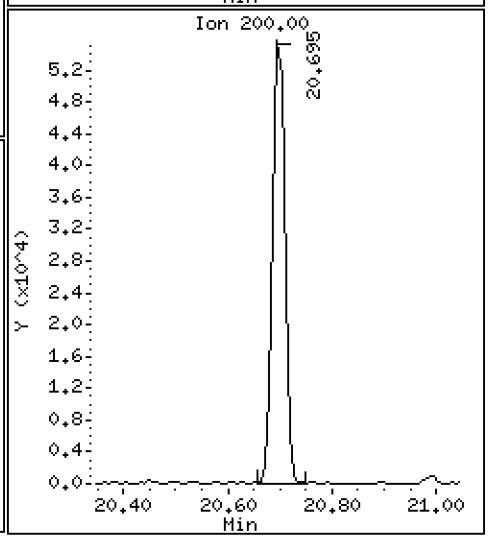












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

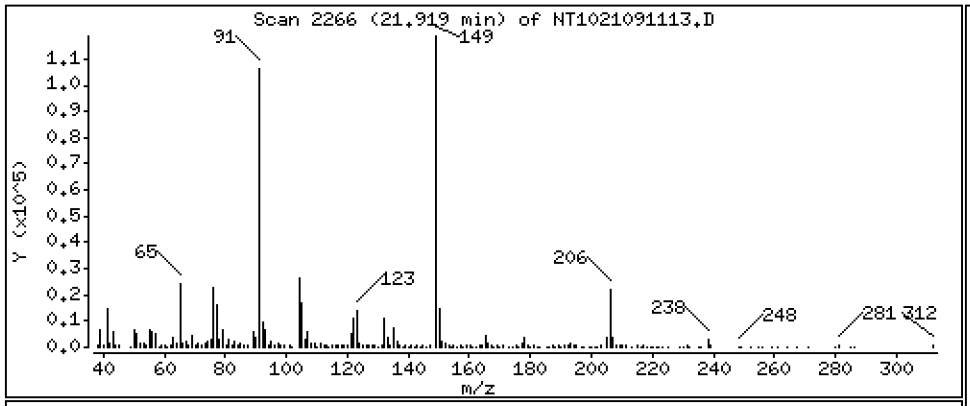
Operator: VTS

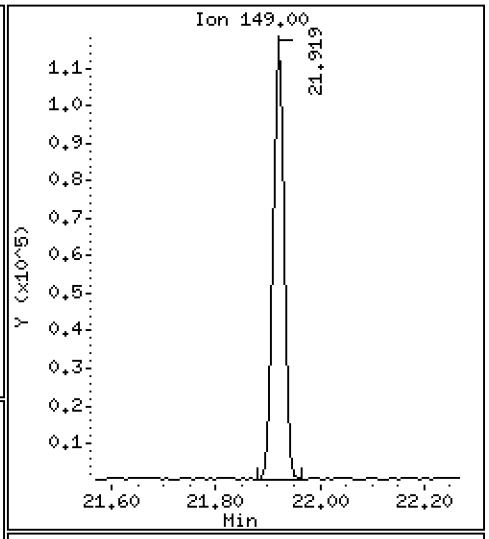
Column phase: ZB-5msi

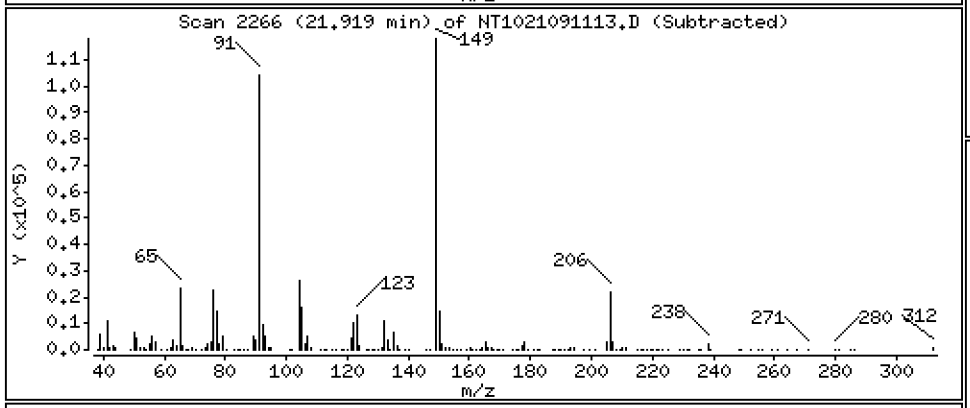
Column diameter: 0.25

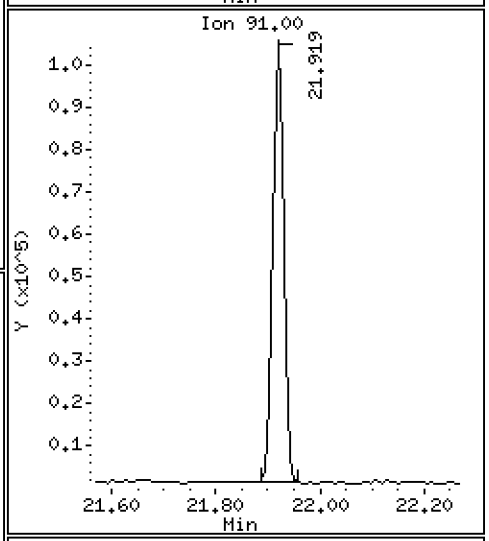
67 Butylbenzylphthalate

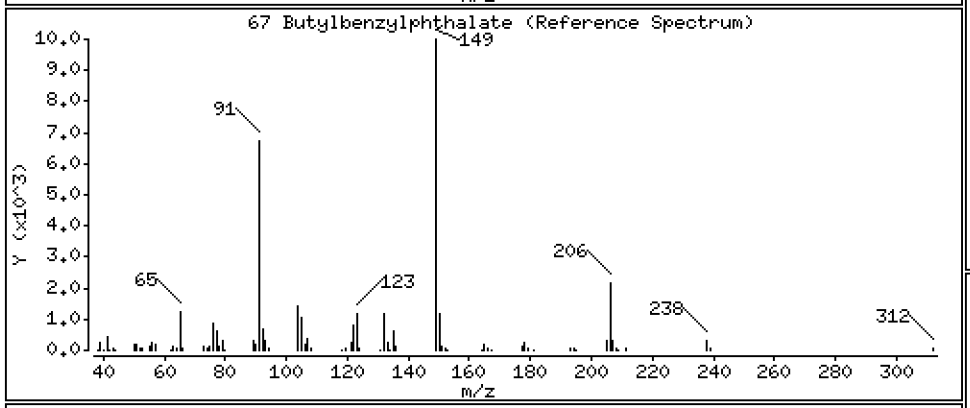
Concentration: 5.710 ug/mL

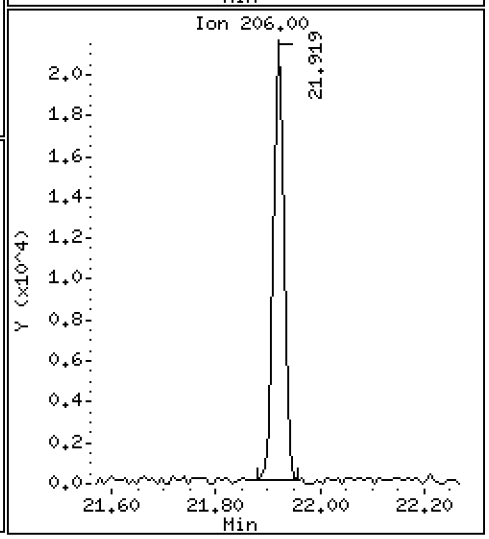


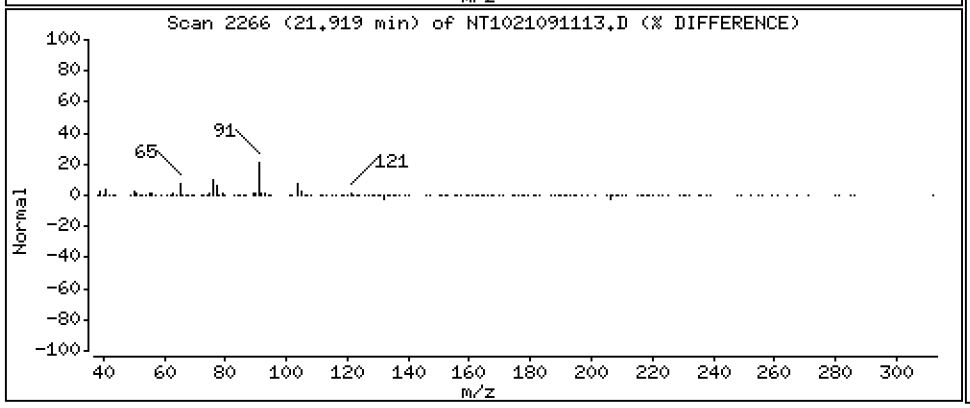












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

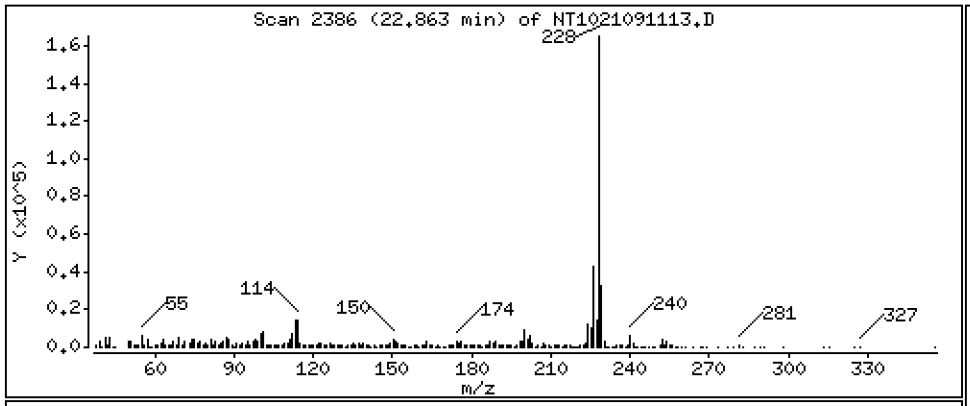
Operator: VTS

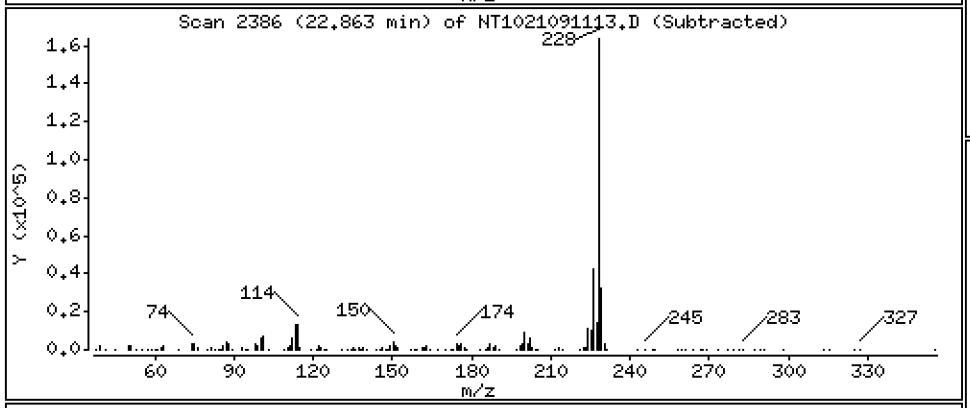
Column phase: ZB-5msi

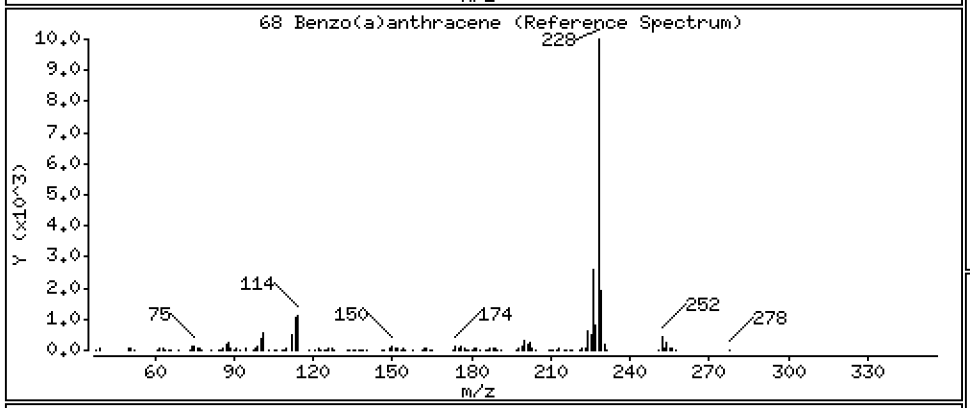
Column diameter: 0.25

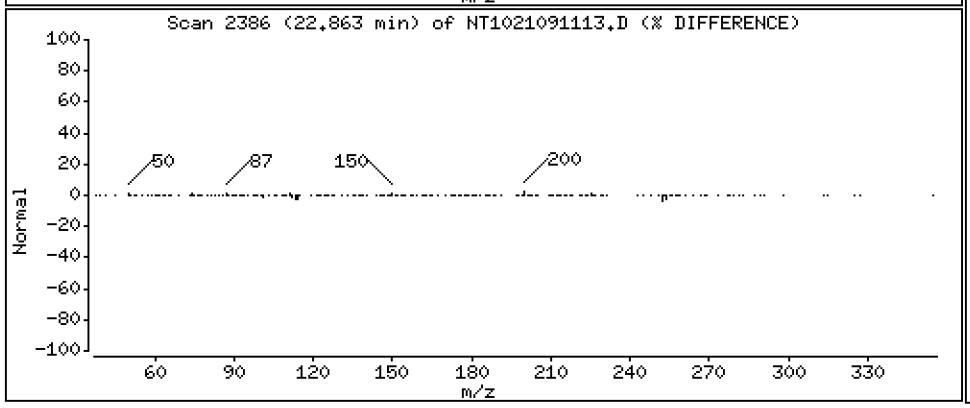
68 Benzo(a)anthracene

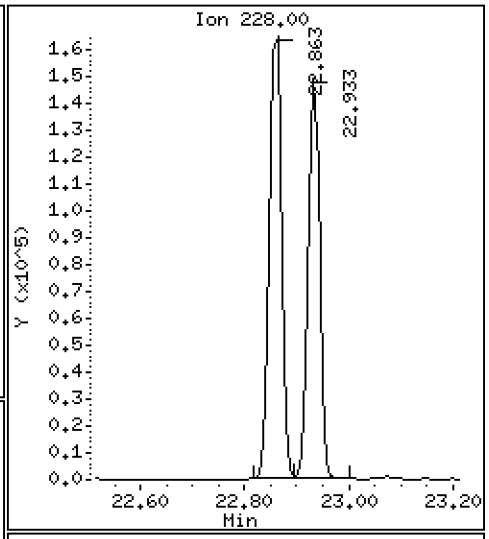
Concentration: 4.563 ug/mL

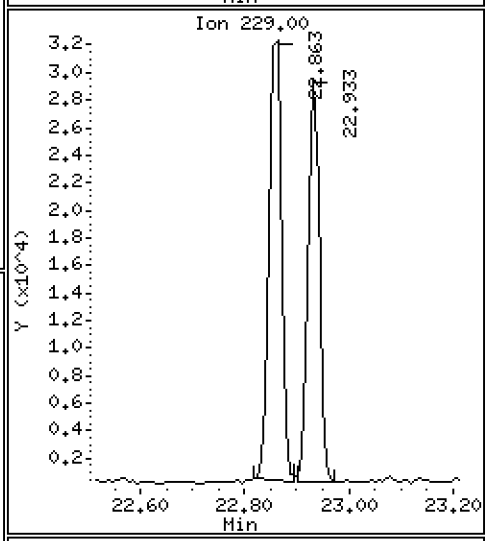


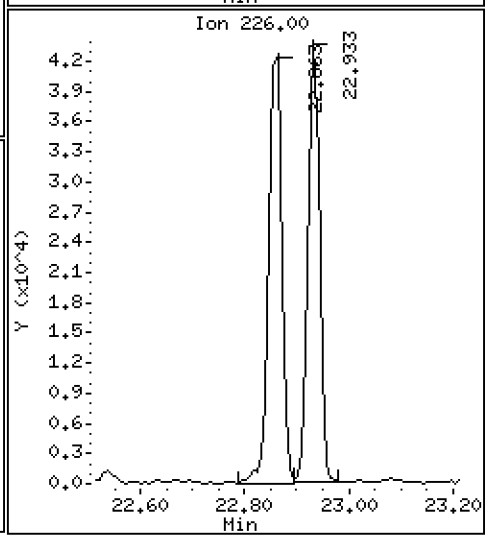












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

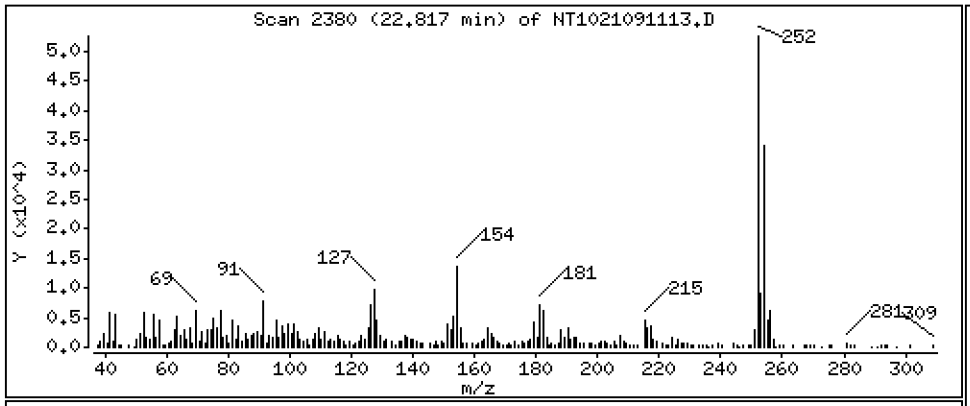
Operator: VTS

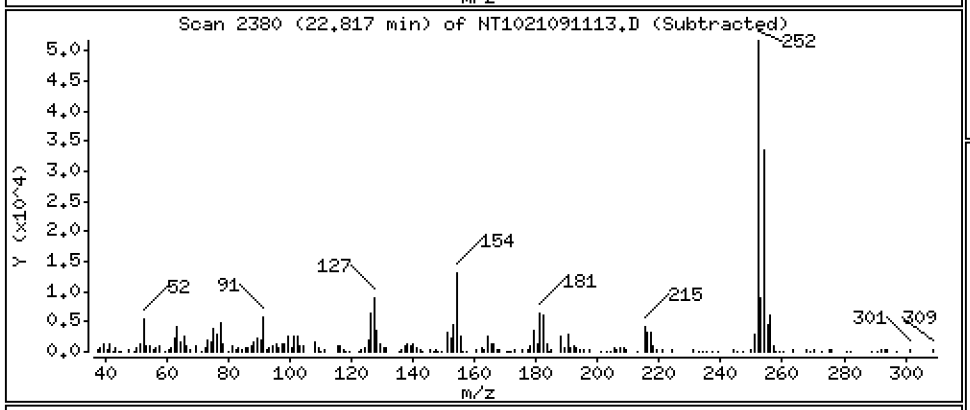
Column phase: ZB-5msi

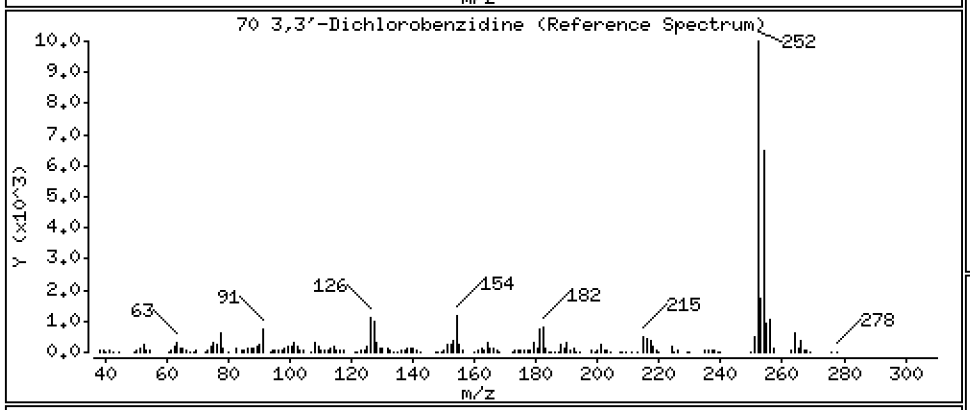
Column diameter: 0.25

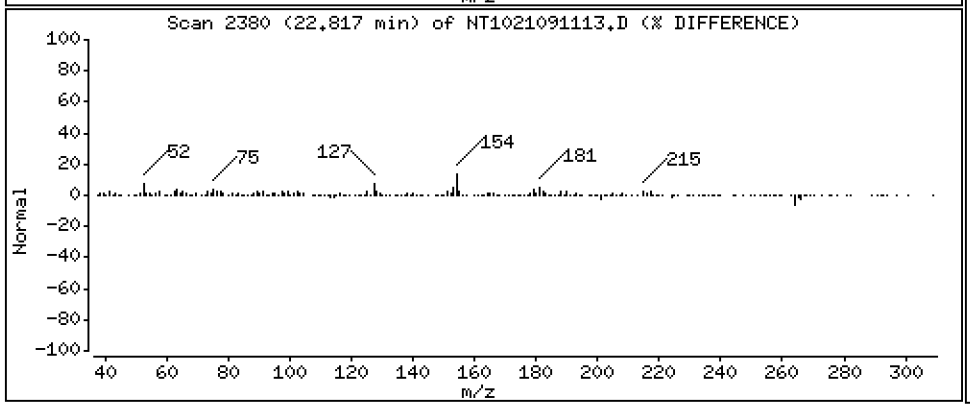
70 3,3'-Dichlorobenzidine

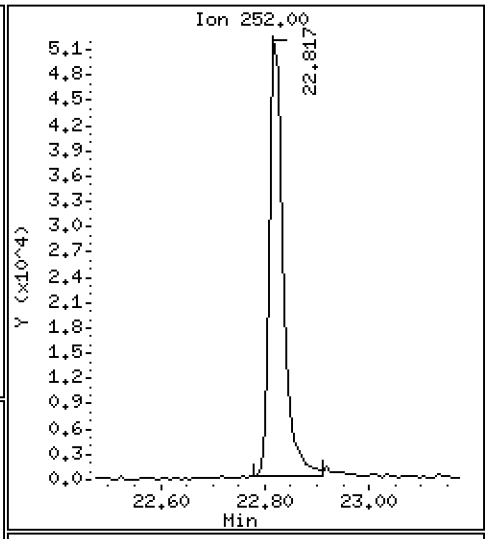
Concentration: 4.113 ug/mL

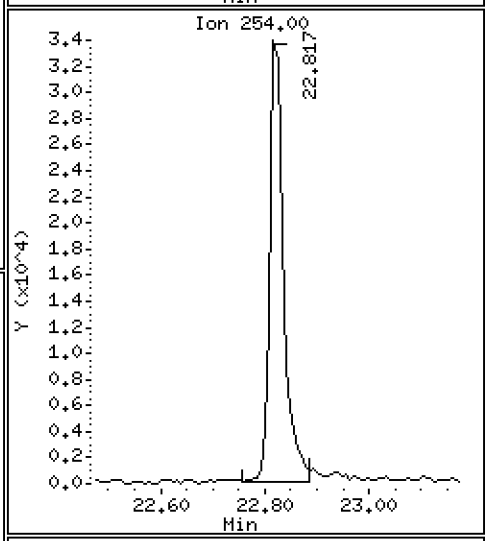


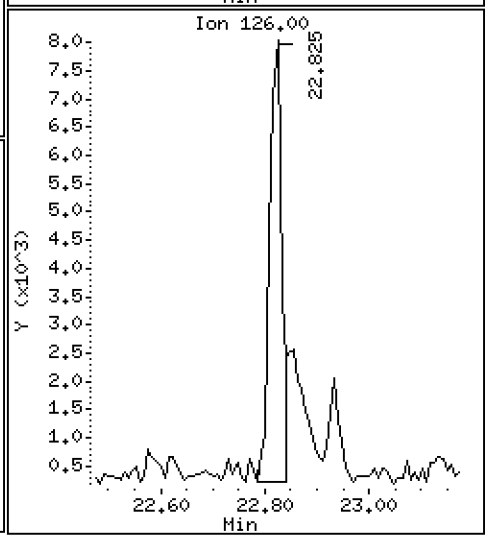












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

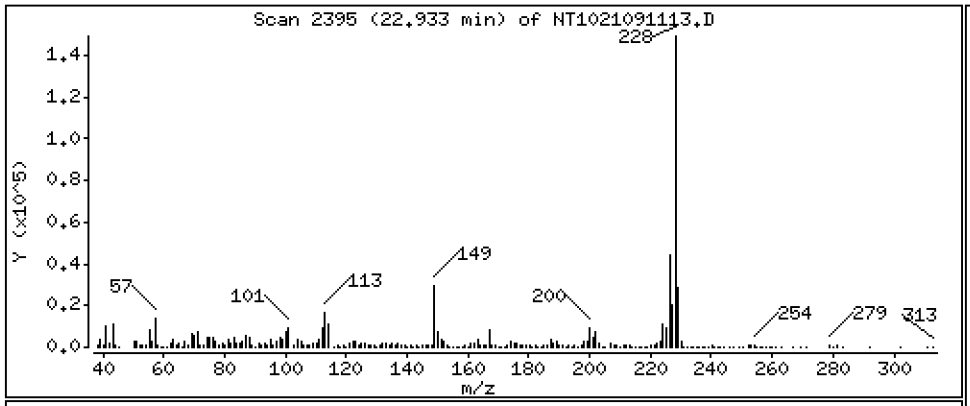
Operator: VTS

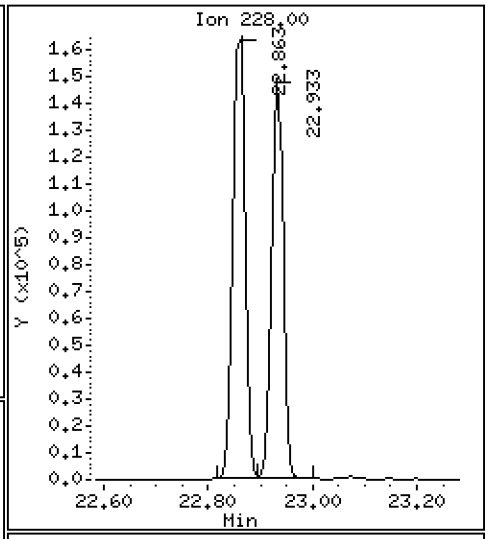
Column phase: ZB-5msi

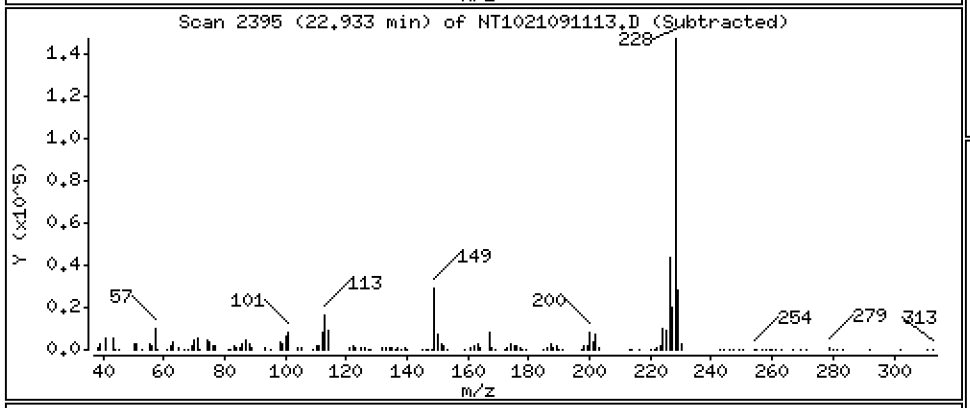
Column diameter: 0.25

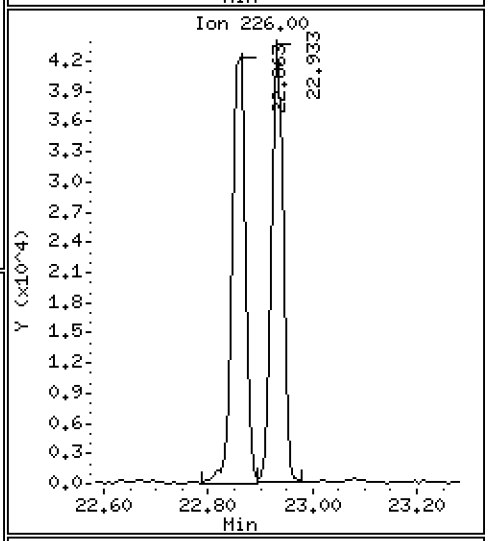
71 Chrysene

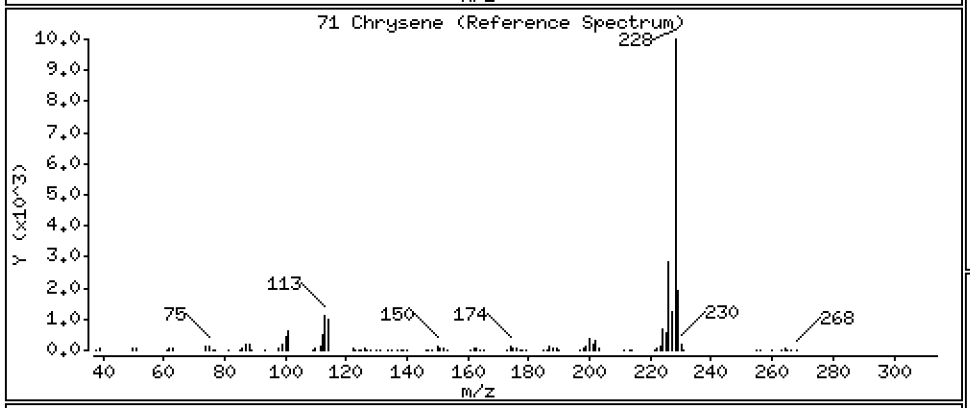
Concentration: 4.869 ug/mL

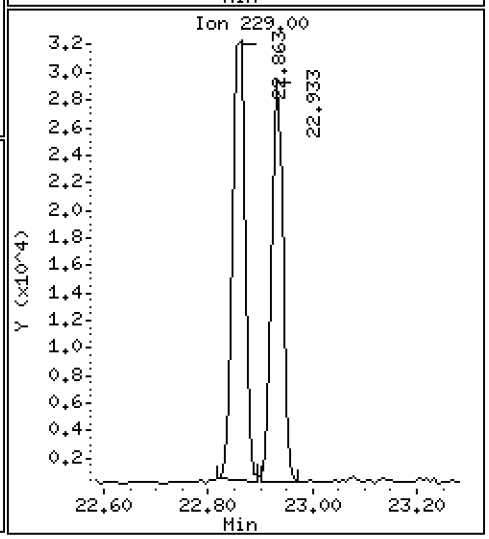


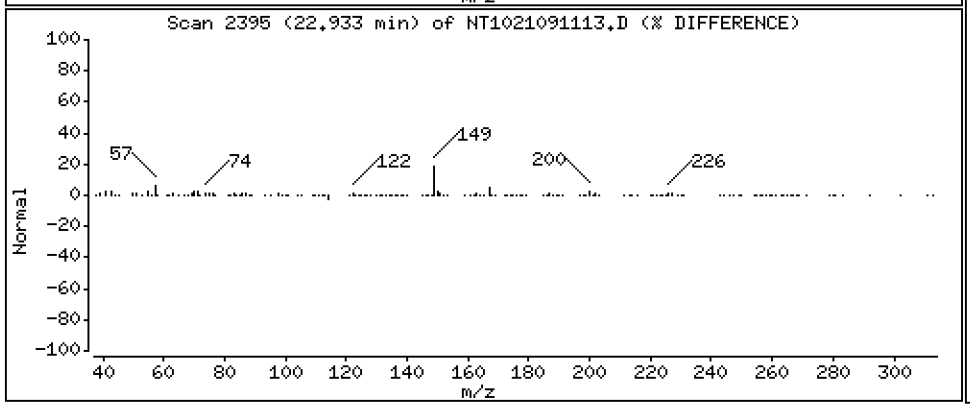












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D

Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

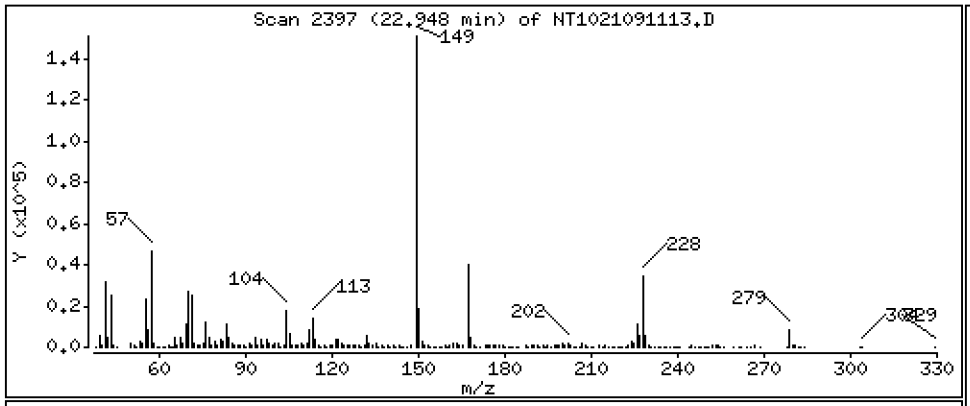
Operator: VTS

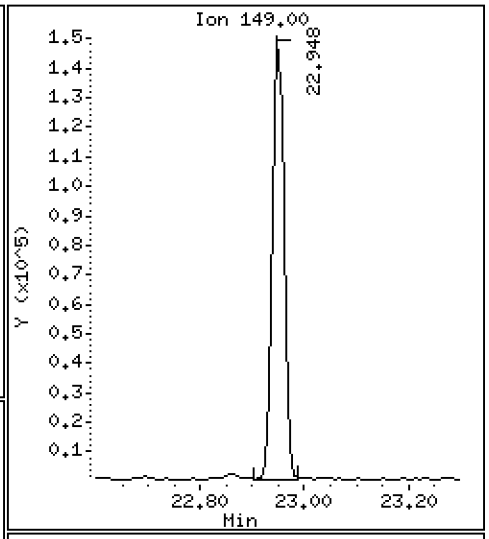
Column phase: ZB-5msi

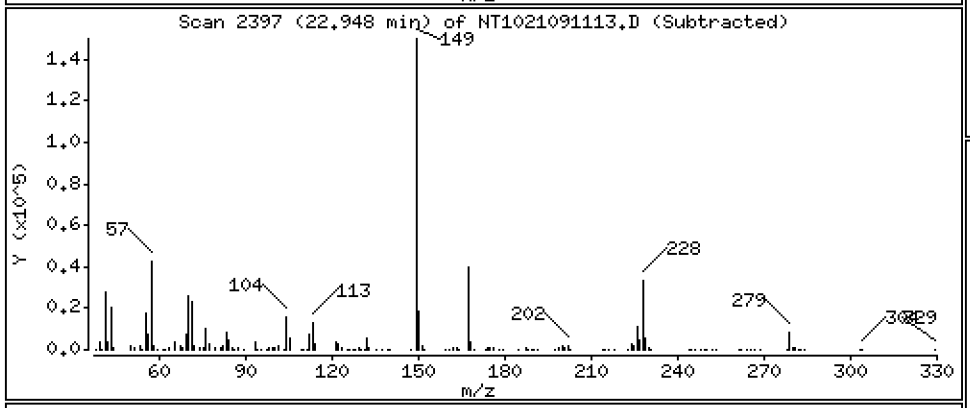
Column diameter: 0.25

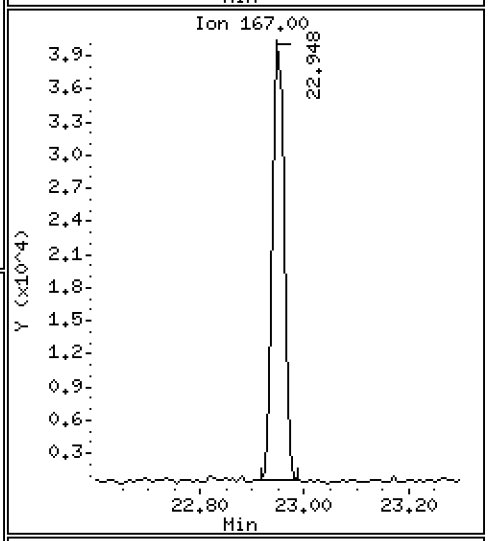
72 bis(2-Ethylhexyl)phthalate

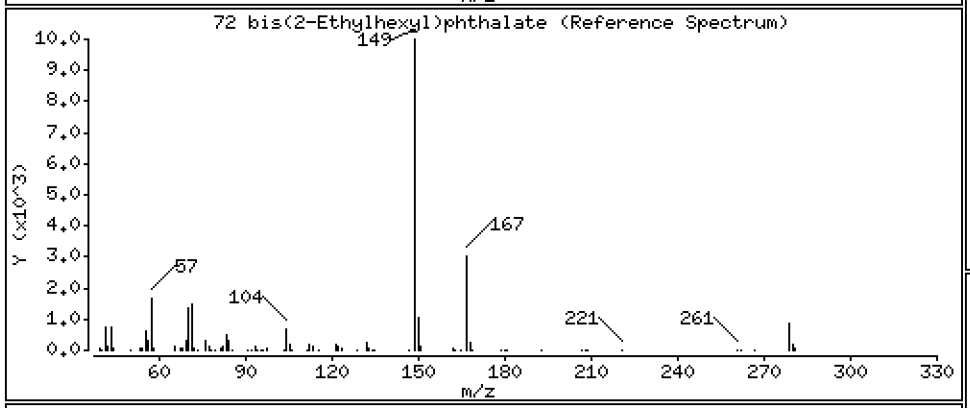
Concentration: 5.958 ug/mL

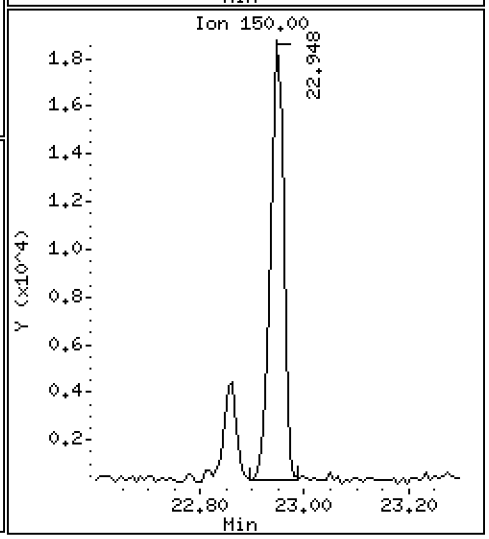


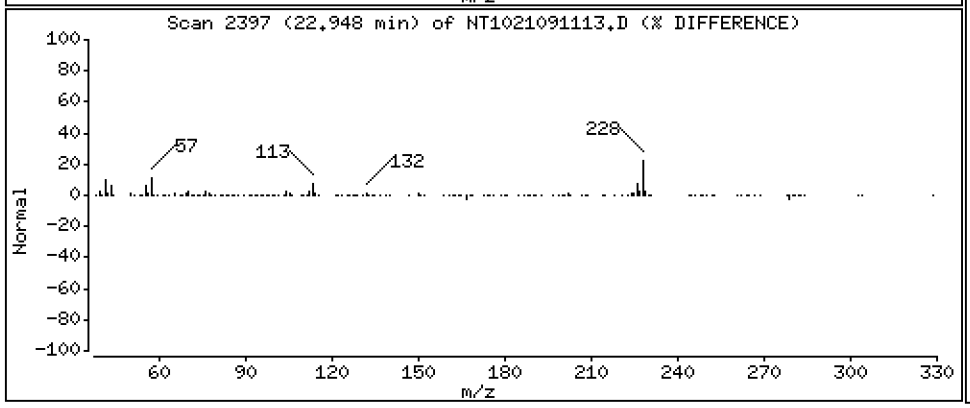












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

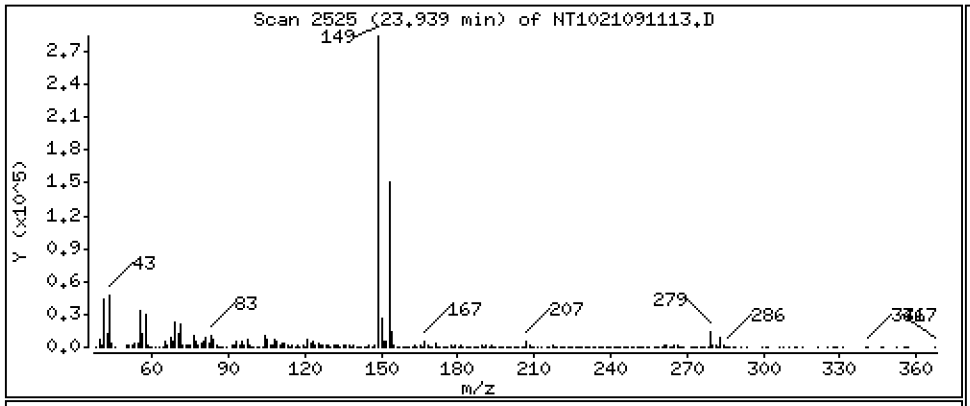
Operator: VTS

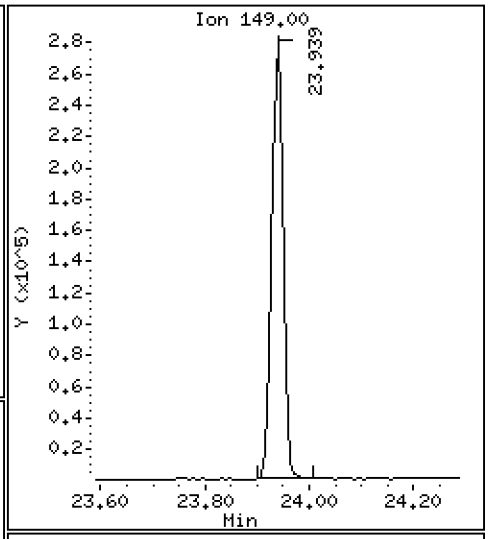
Column phase: ZB-5msi

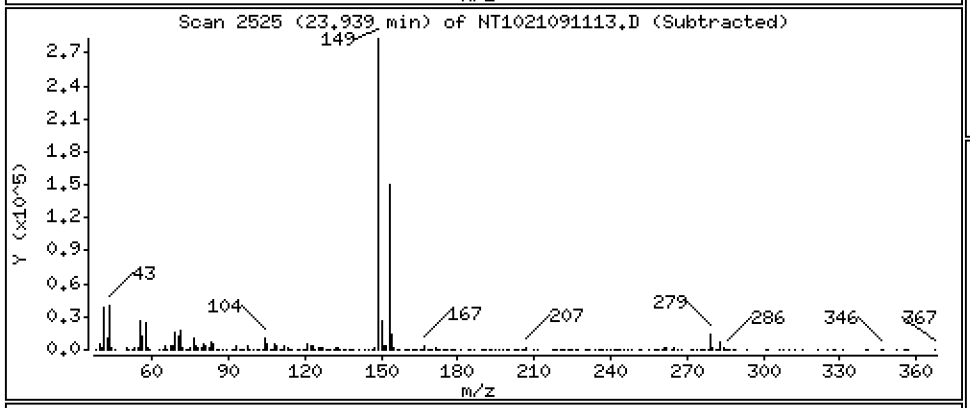
Column diameter: 0.25

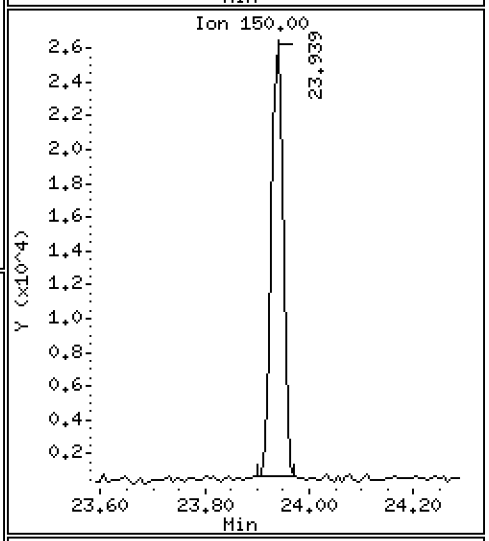
73 Di-n-octylphthalate

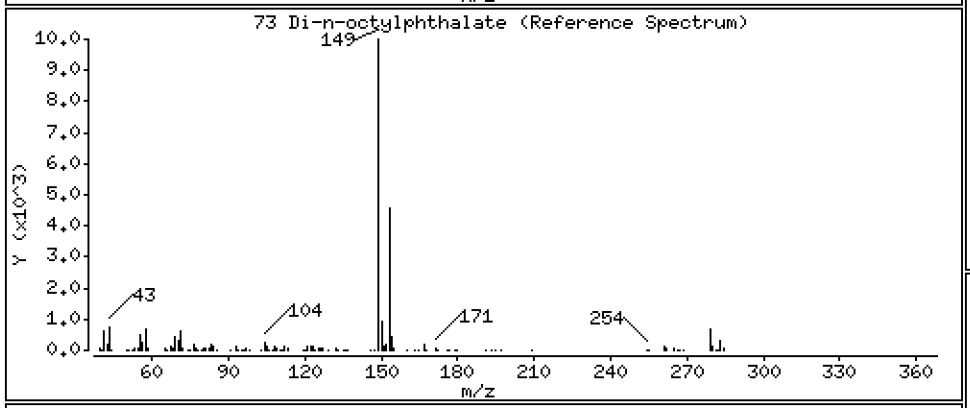
Concentration: 4.749 ug/mL

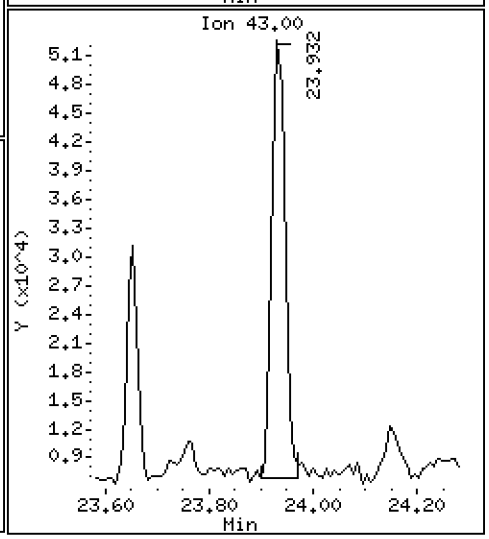


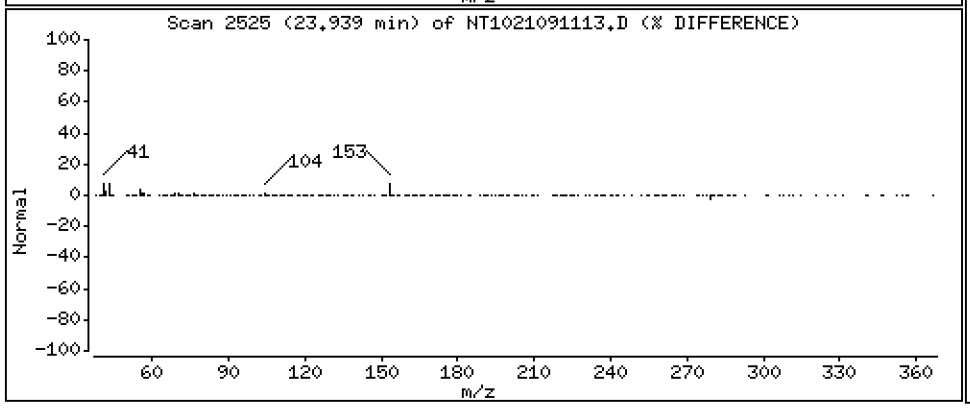












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

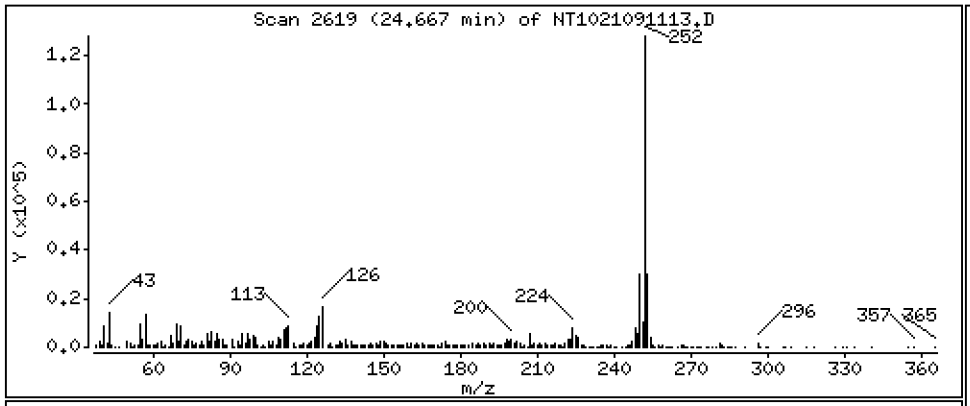
Operator: VTS

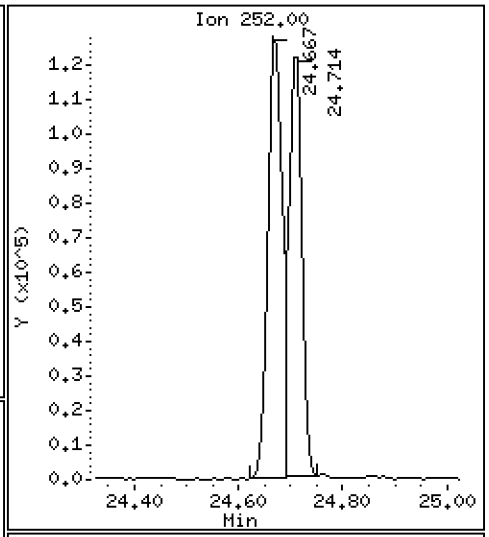
Column phase: ZB-5msi

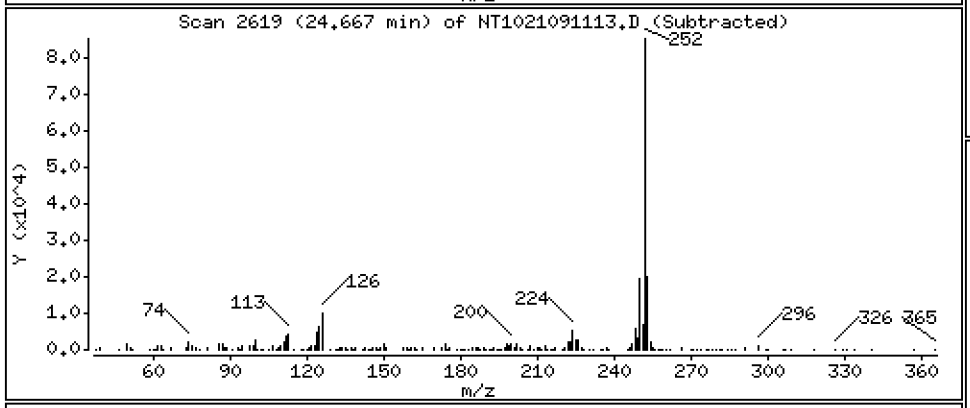
Column diameter: 0.25

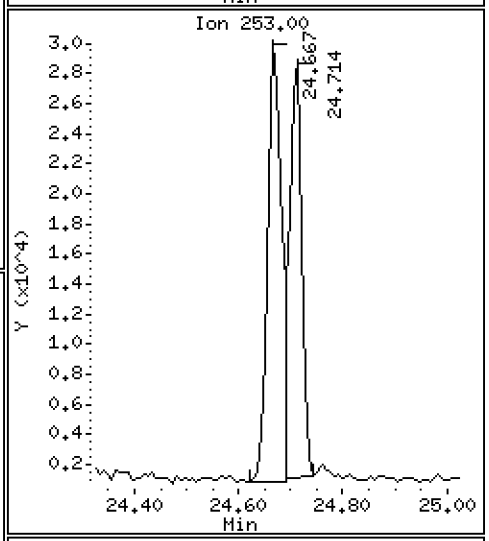
74 Benzo(b)fluoranthene

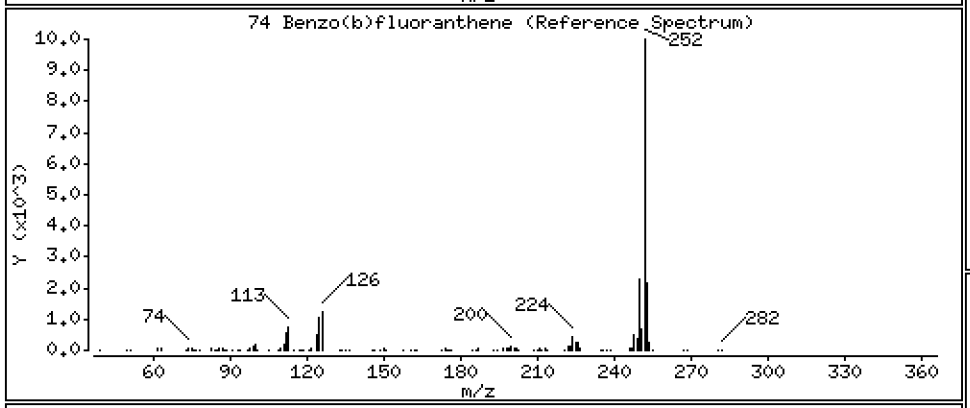
Concentration: 4.647 ug/mL

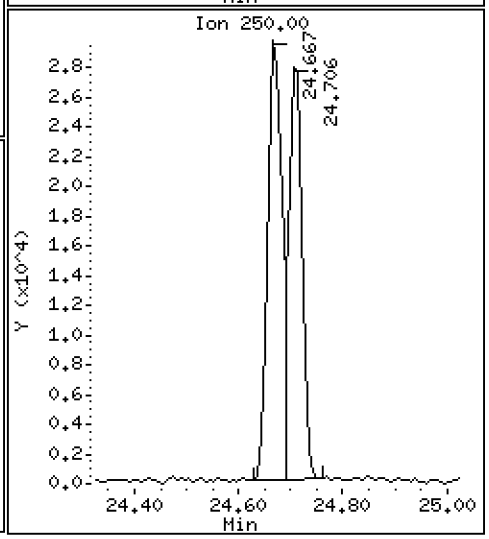


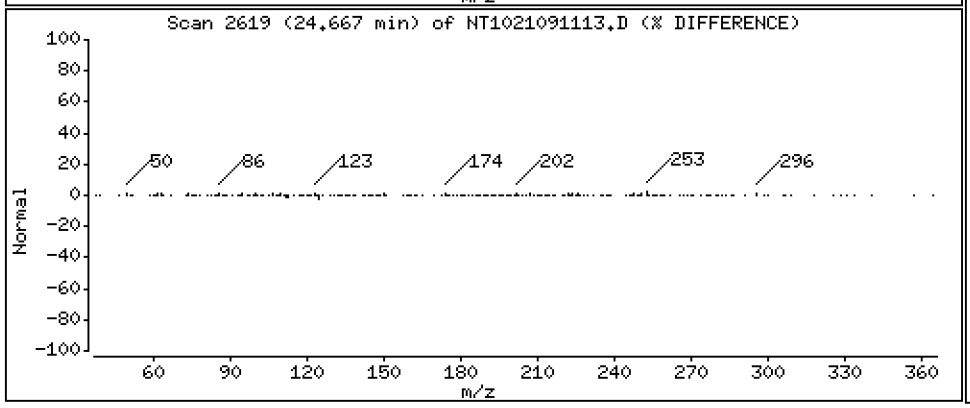












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

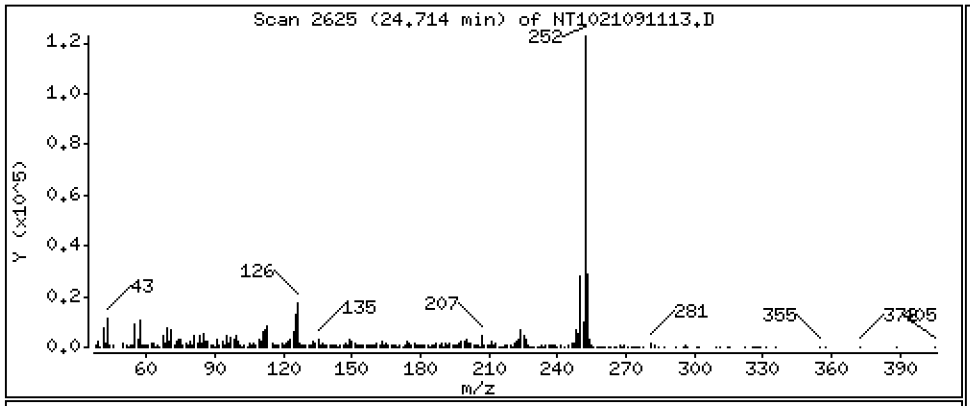
Operator: VTS

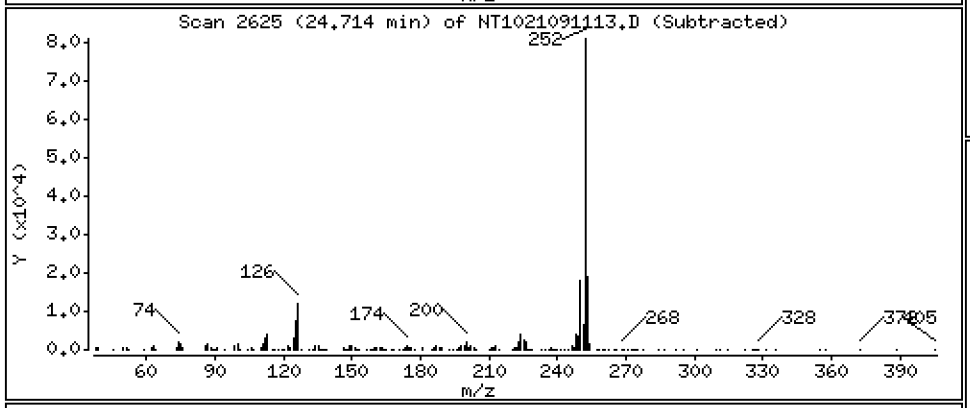
Column phase: ZB-5msi

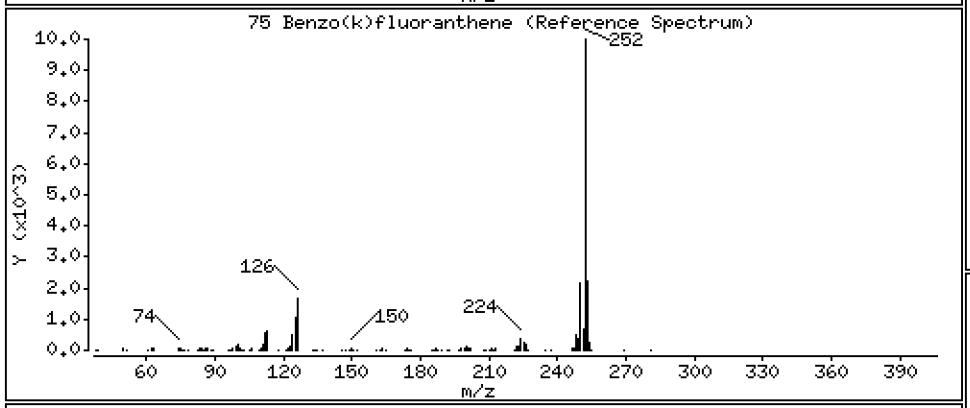
Column diameter: 0.25

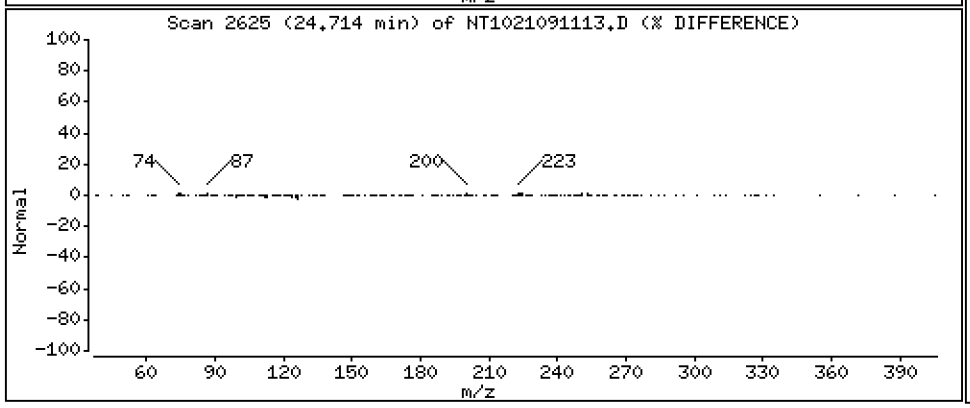
75 Benzo(k)fluoranthene

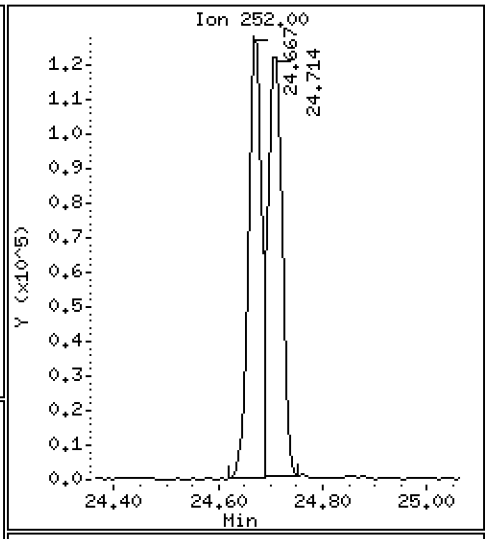
Concentration: 4.442 ug/mL

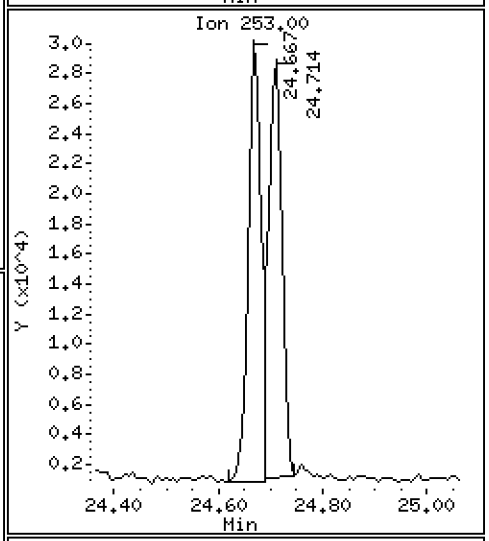


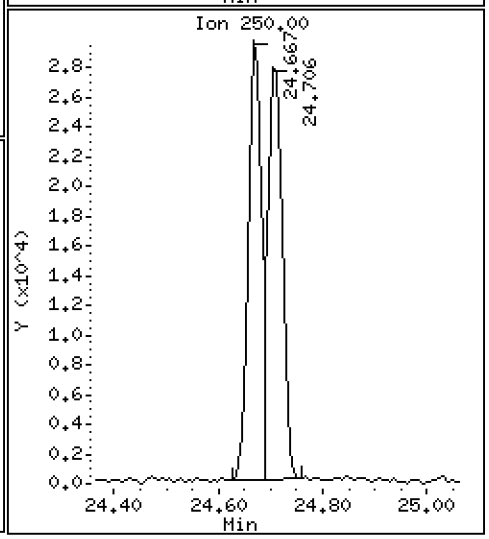












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

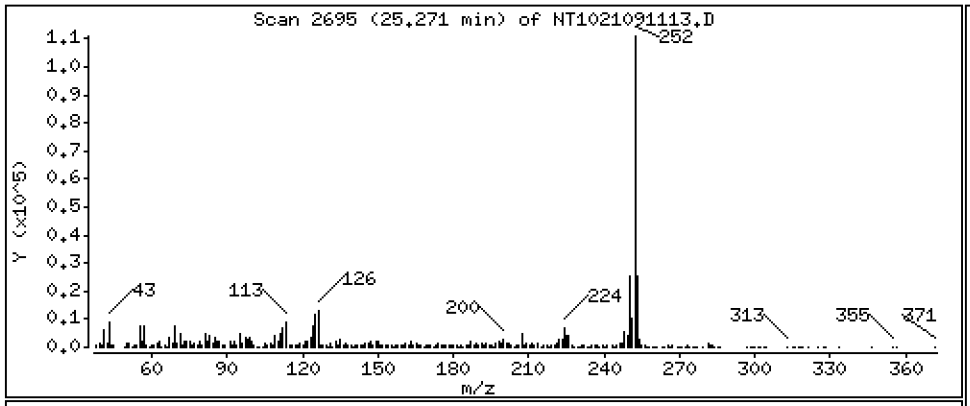
Operator: VTS

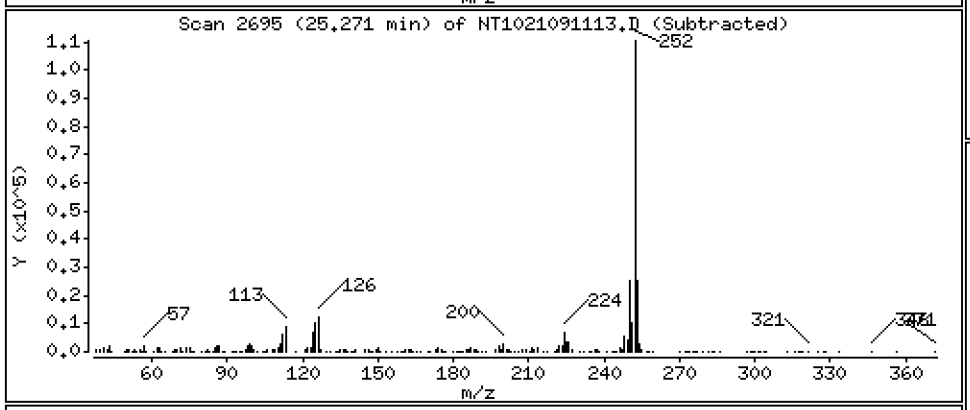
Column phase: ZB-5msi

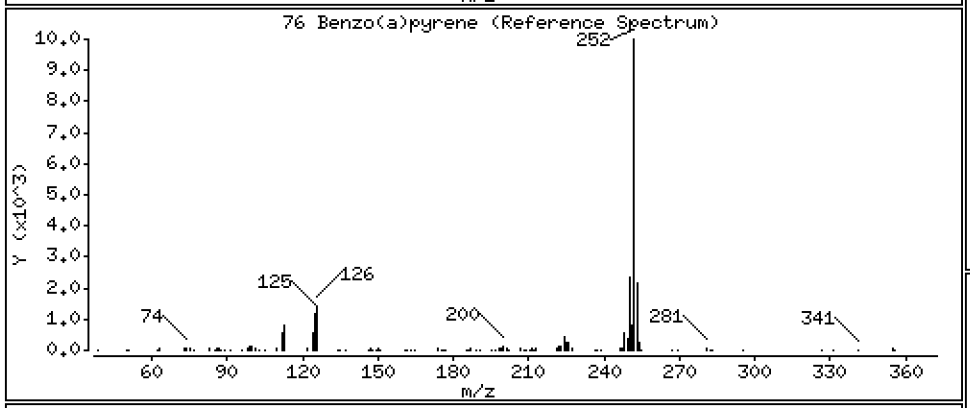
Column diameter: 0.25

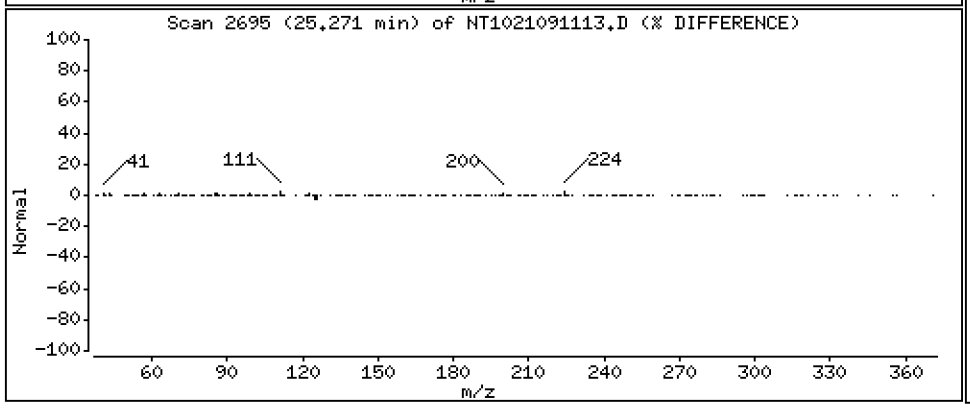
76 Benzo(a)pyrene

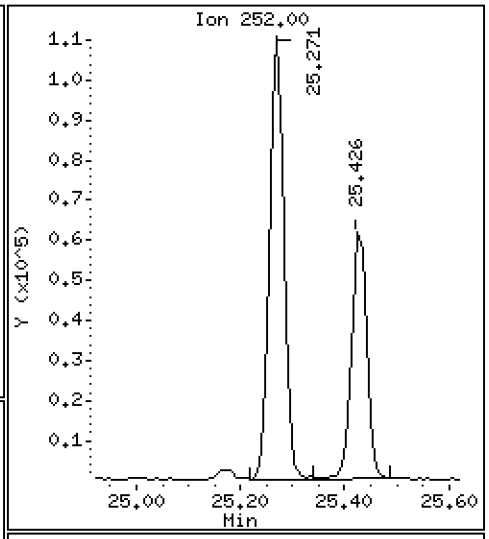
Concentration: 4.357 ug/mL

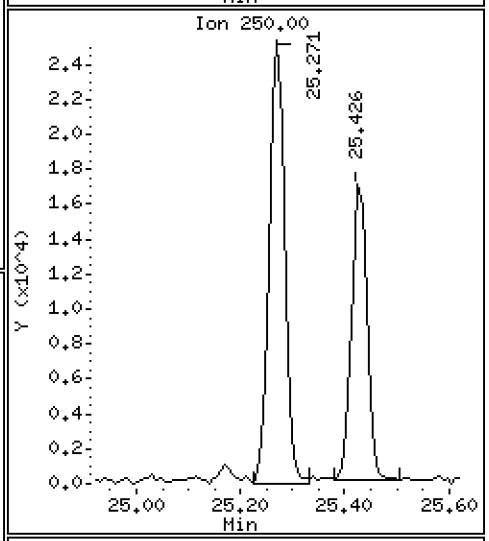


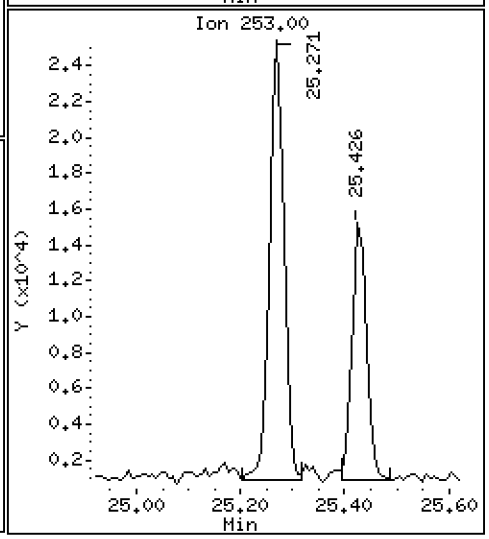












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

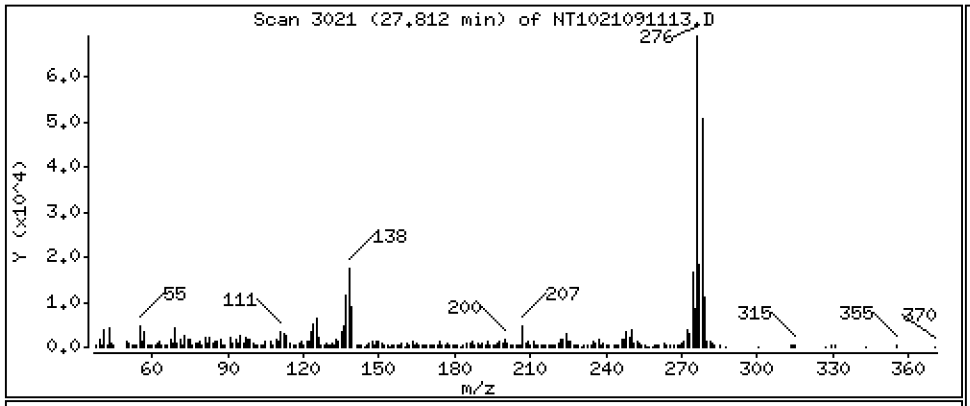
Operator: VTS

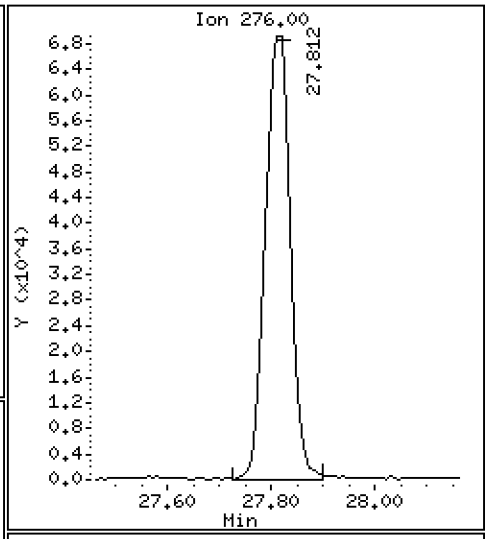
Column phase: ZB-5msi

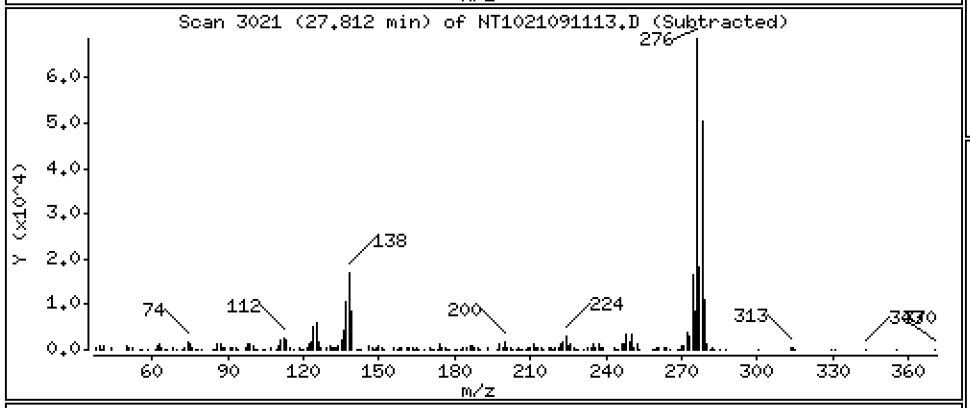
Column diameter: 0.25

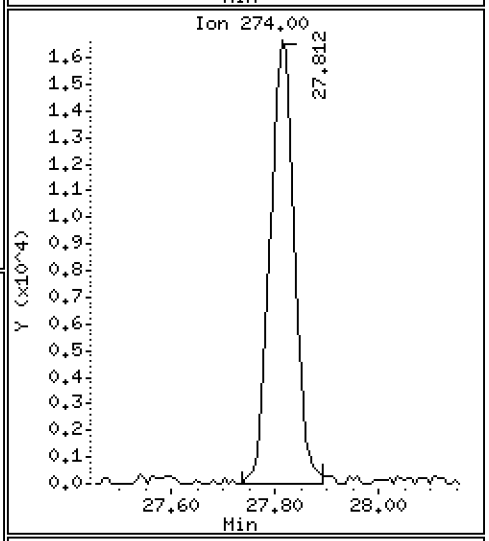
78 Indeno(1,2,3-cd)pyrene

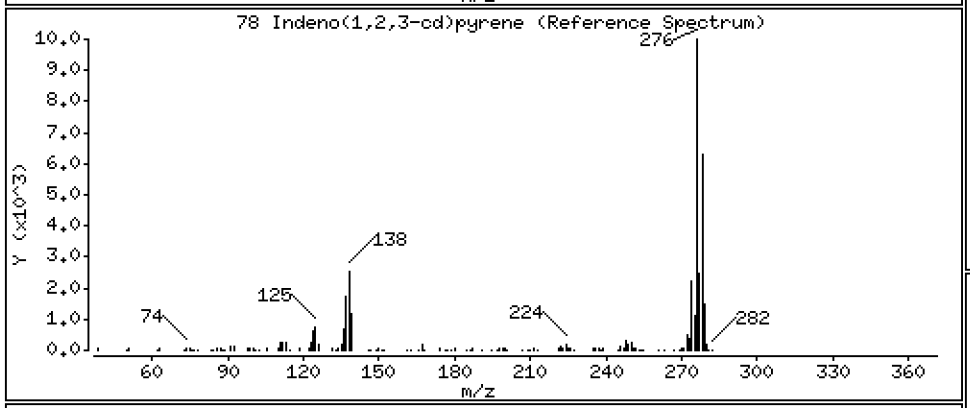
Concentration: 4.737 ug/mL

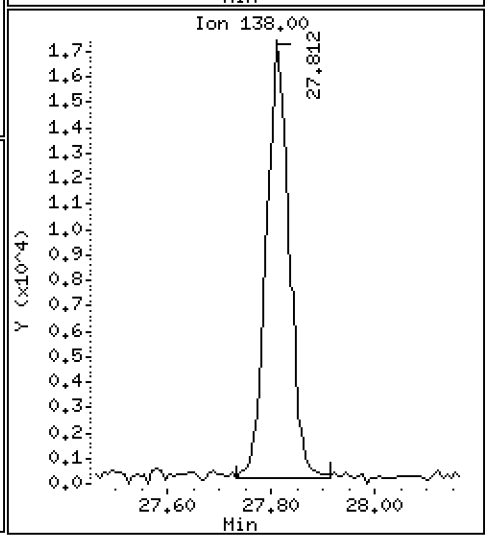


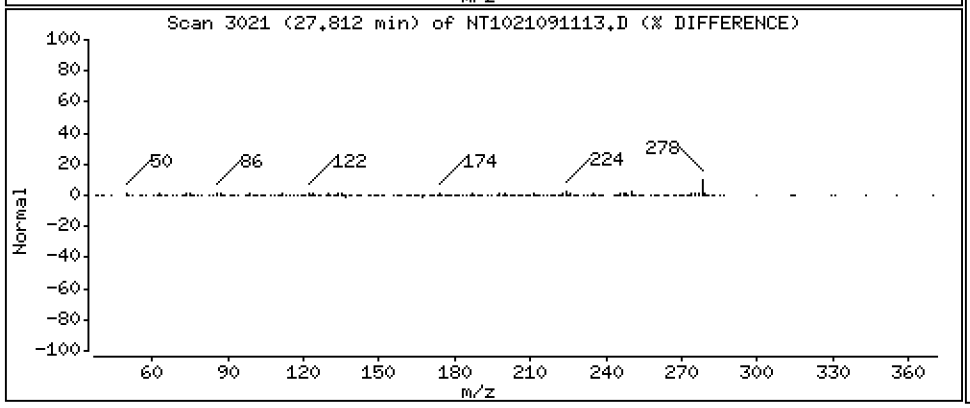












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

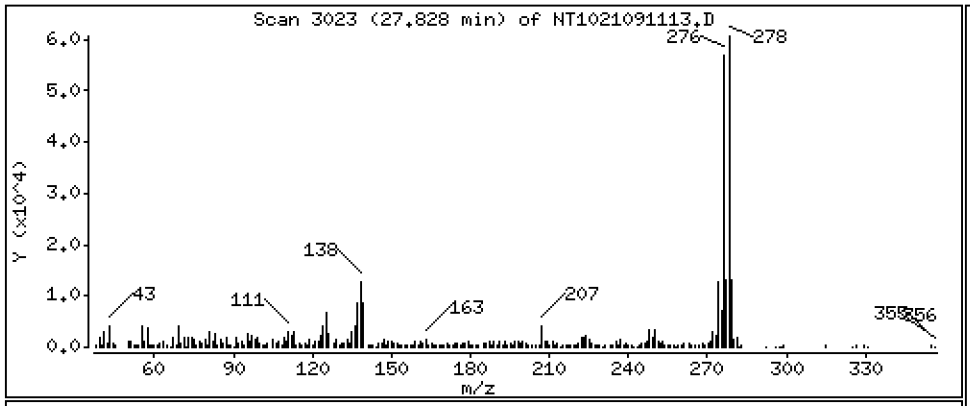
Operator: VTS

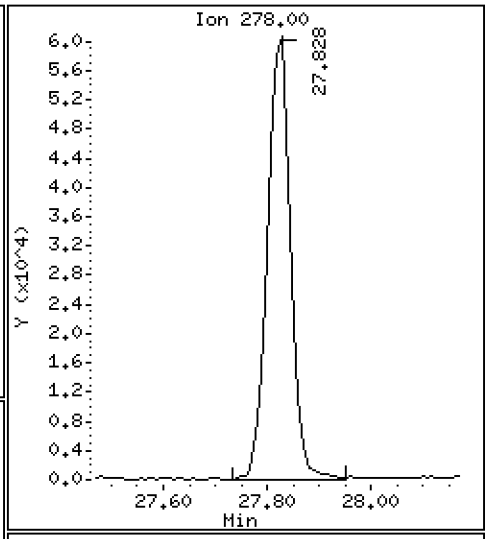
Column phase: ZB-5msi

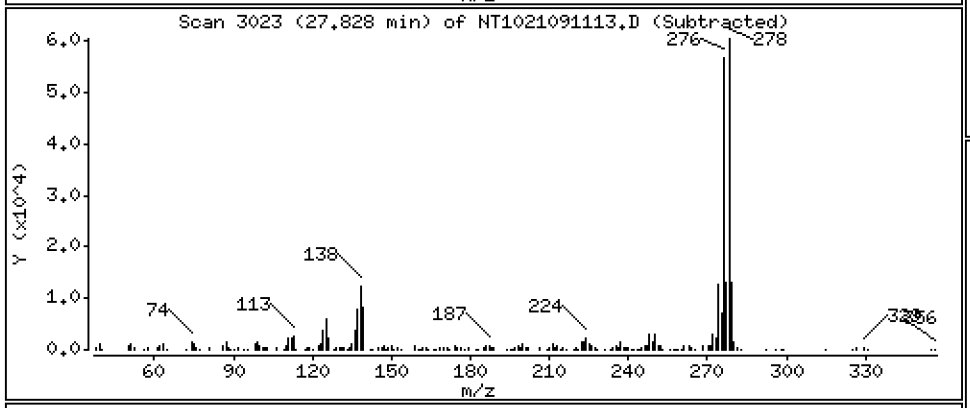
Column diameter: 0.25

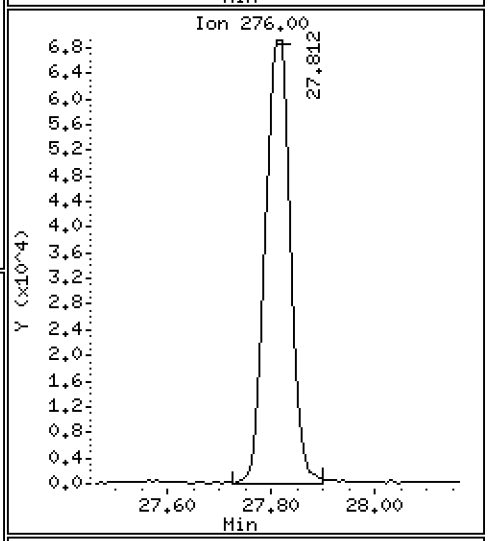
79 Dibenzo(a,h)anthracene

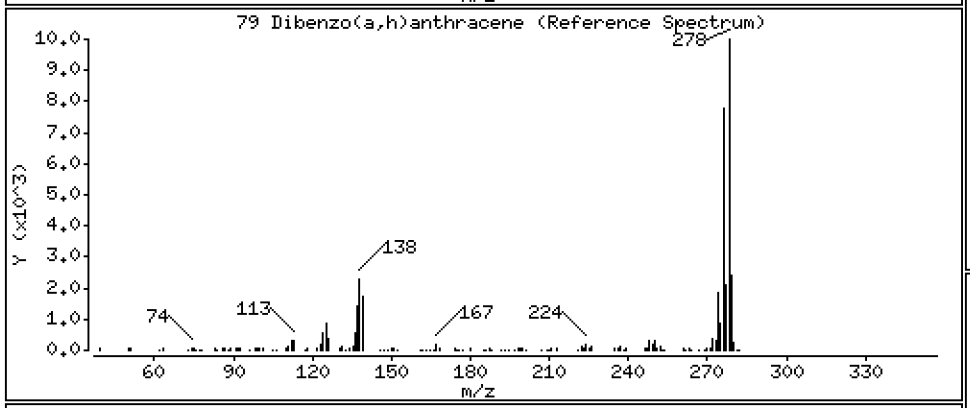
Concentration: 4.966 ug/mL

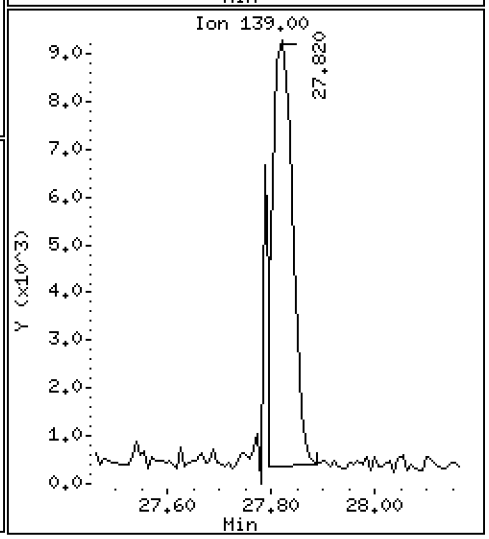


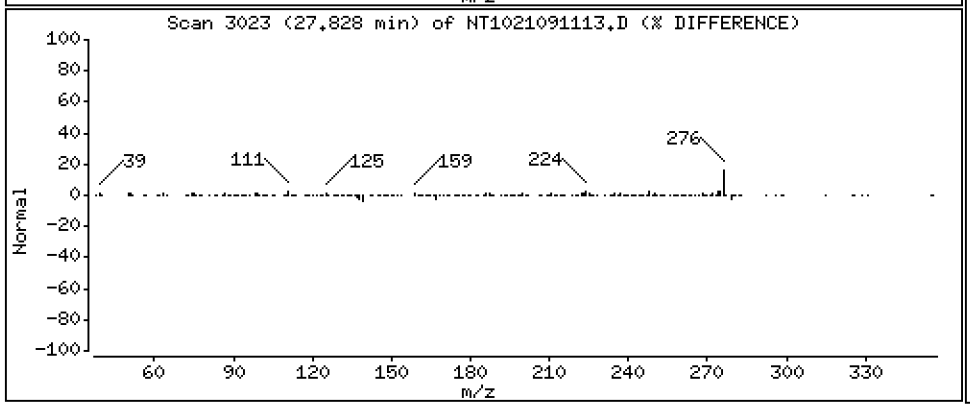












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

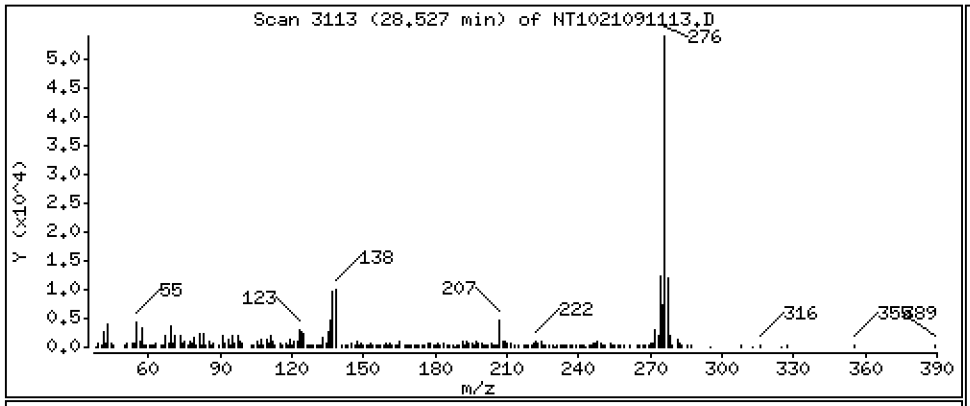
Operator: VTS

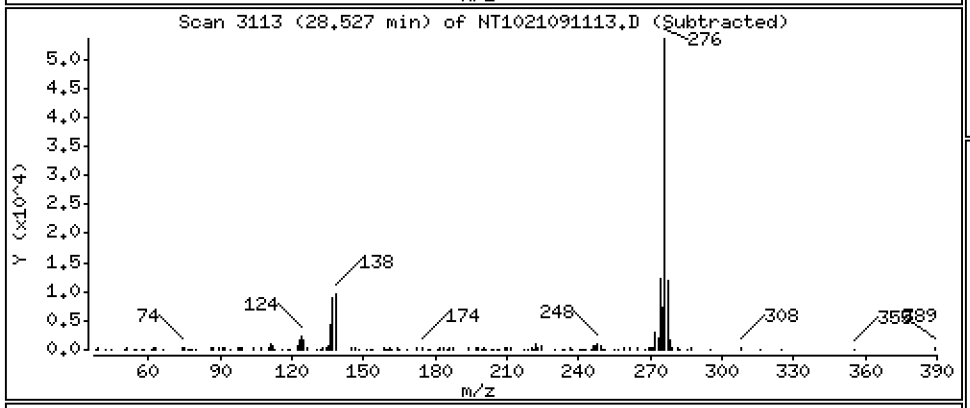
Column phase: ZB-5msi

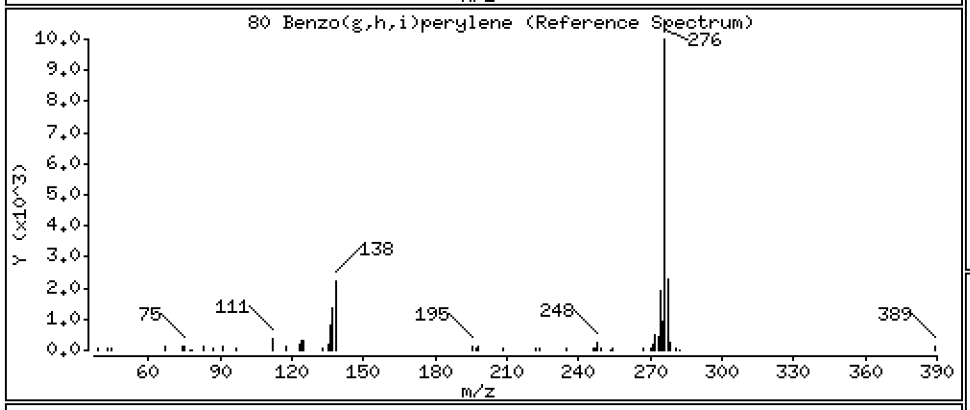
Column diameter: 0.25

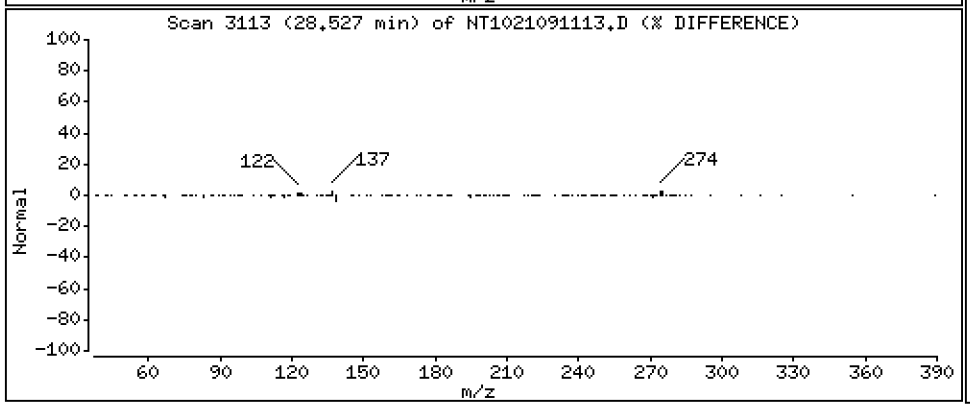
80 Benzo(g,h,i)perylene

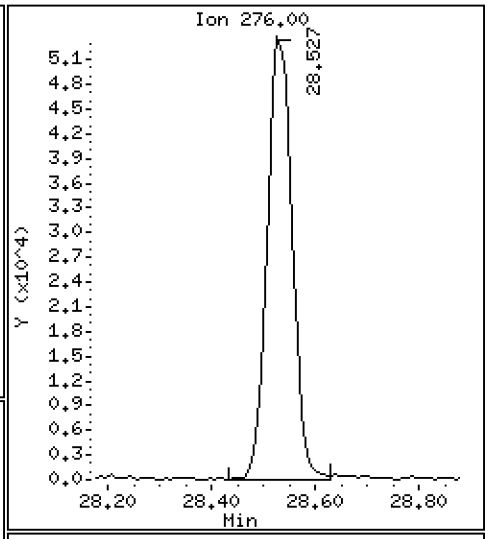
Concentration: 4.215 ug/mL

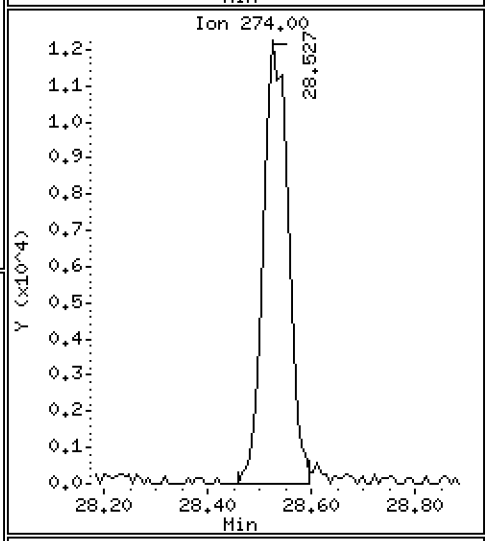


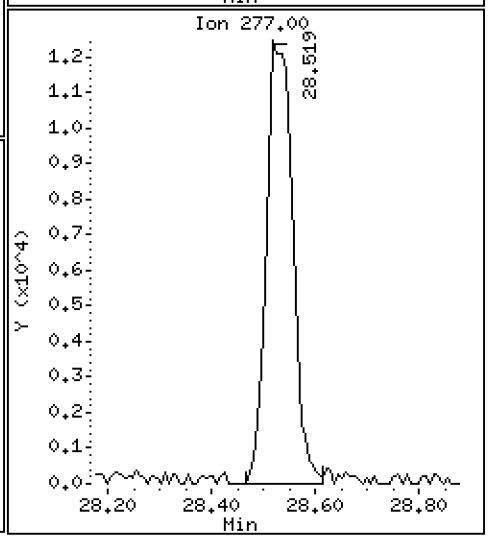












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

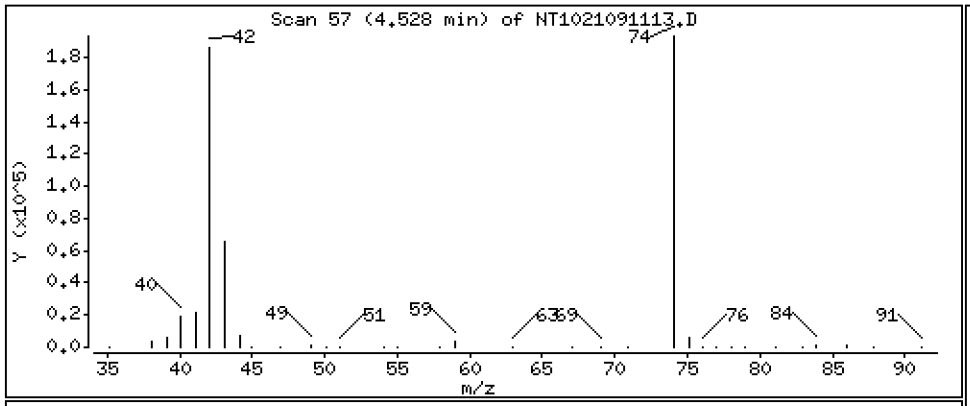
Operator: VTS

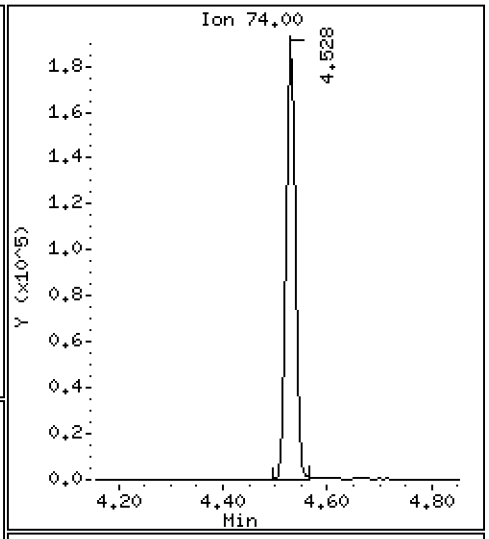
Column phase: ZB-5msi

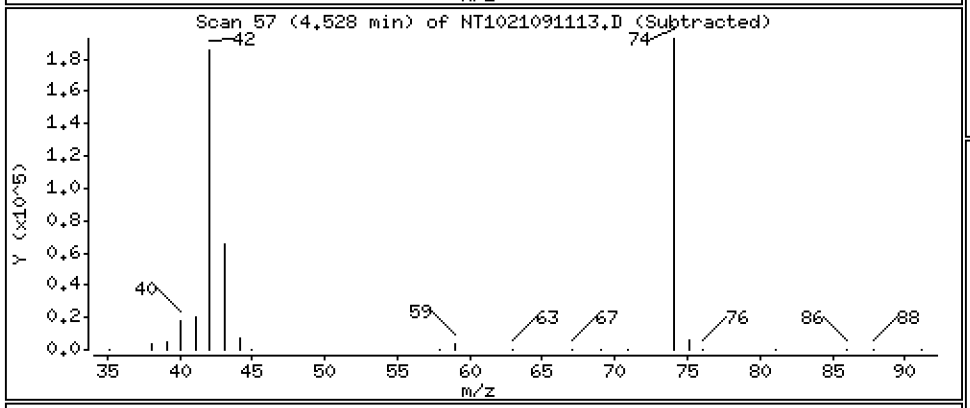
Column diameter: 0.25

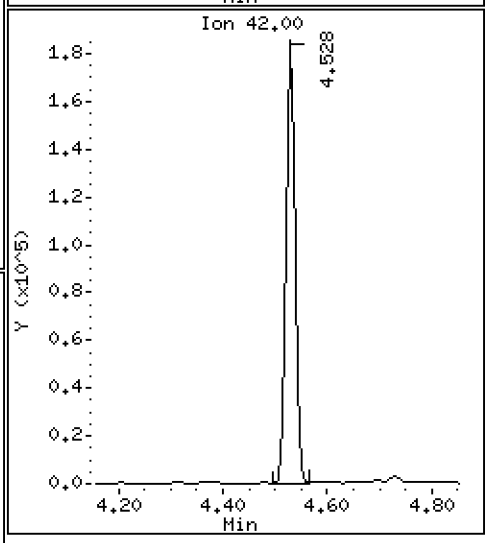
90 N-Nitrosodimethylamine

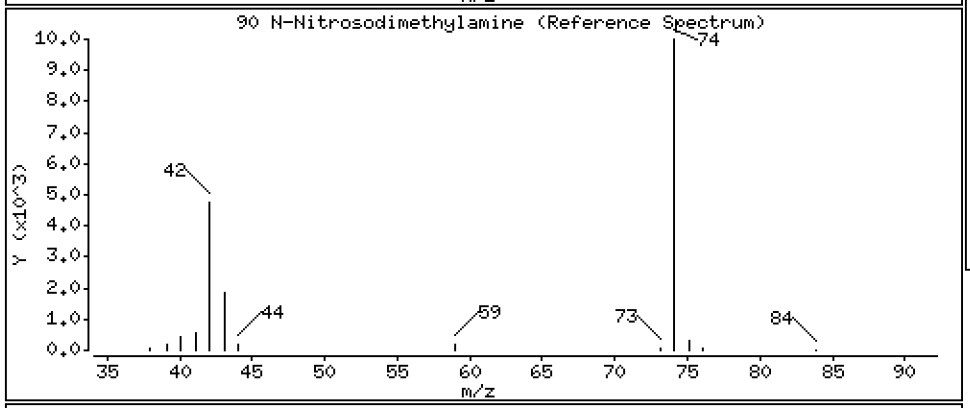
Concentration: 9.302 ug/mL

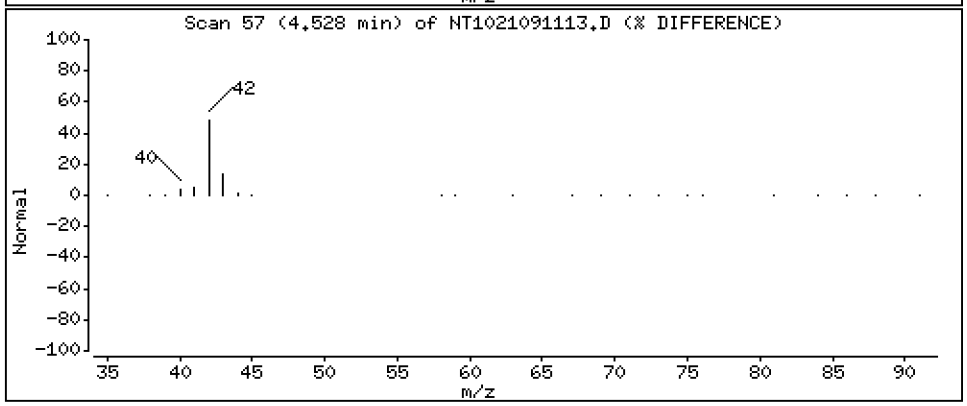












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

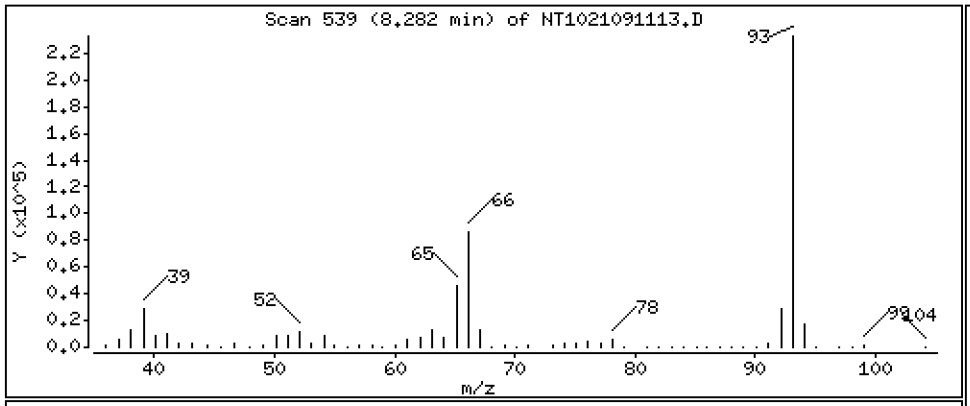
Operator: VTS

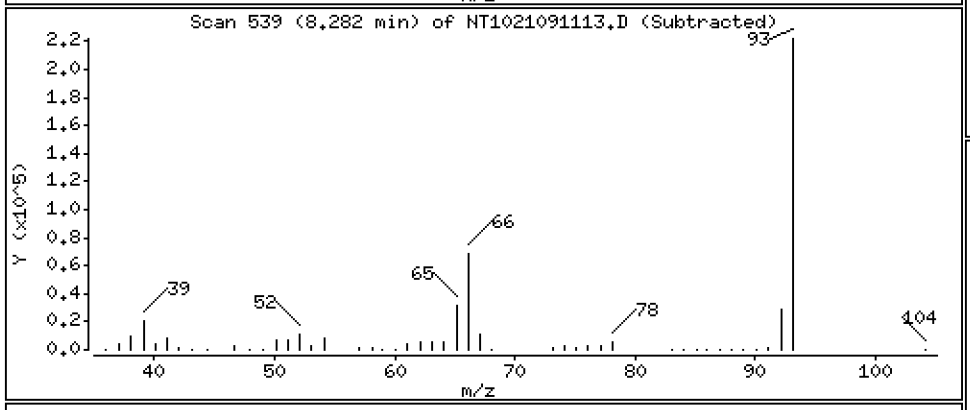
Column phase: ZB-5msi

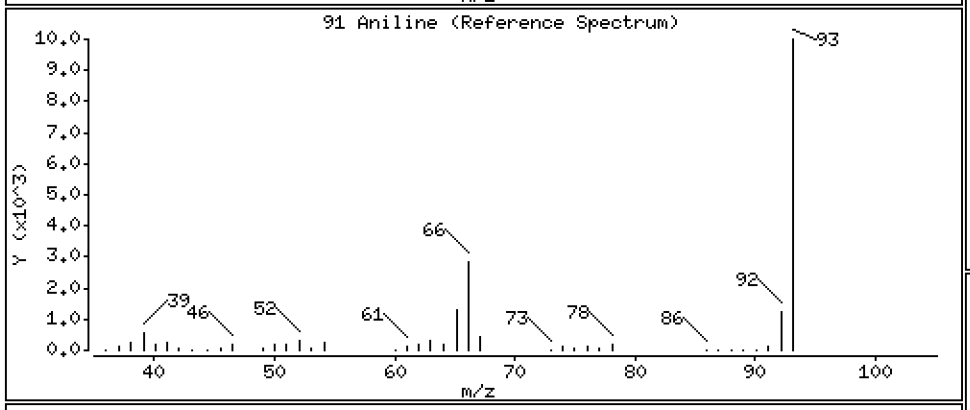
Column diameter: 0.25

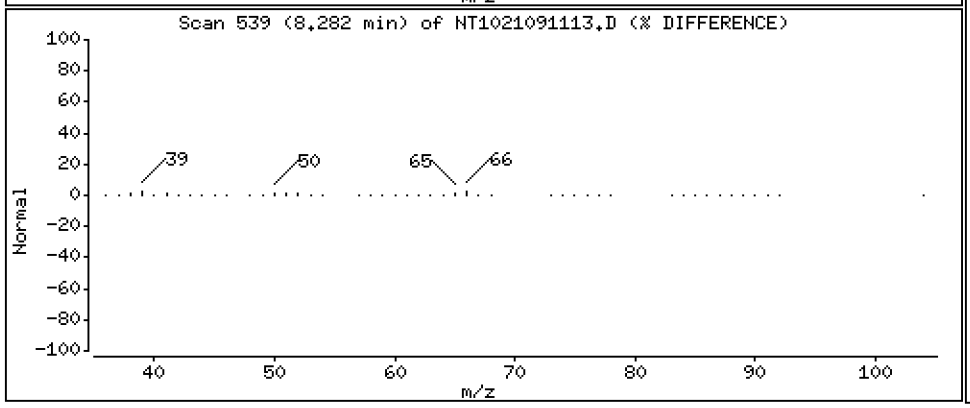
91 Aniline

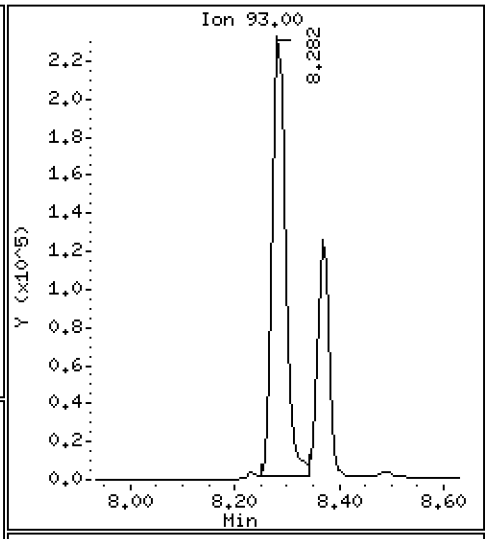
Concentration: 6.291 ug/mL

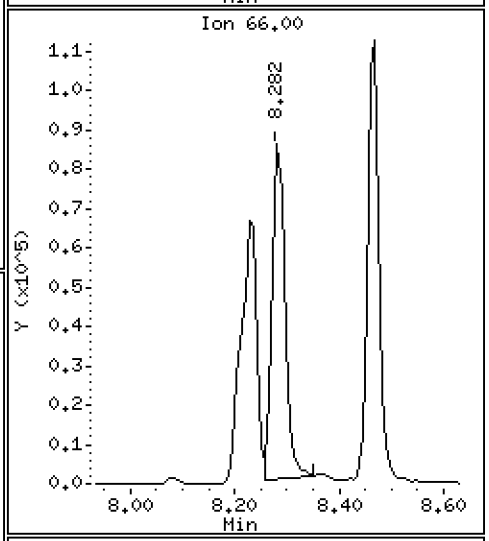


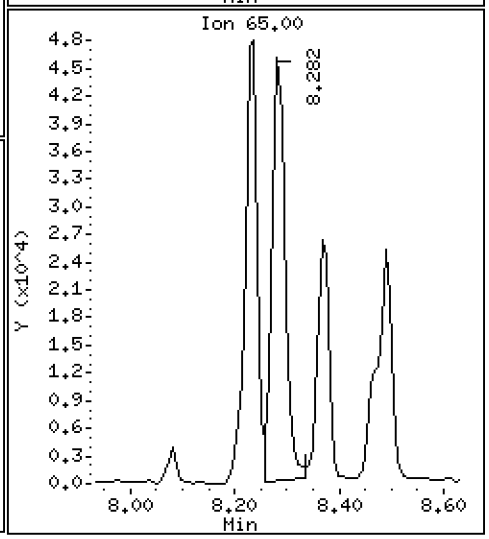












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

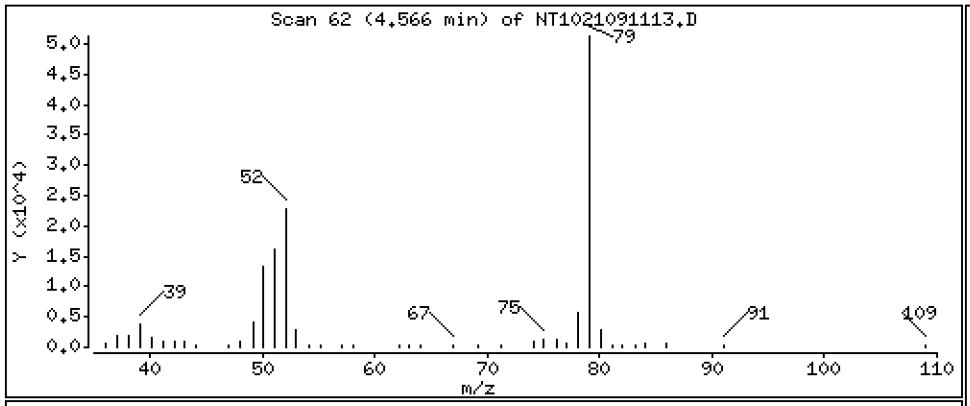
Operator: VTS

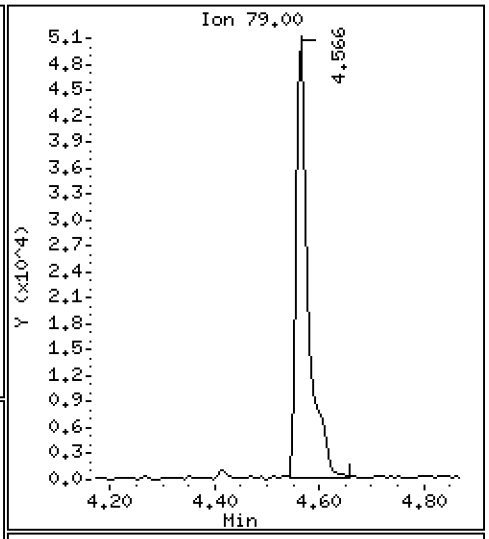
Column phase: ZB-5msi

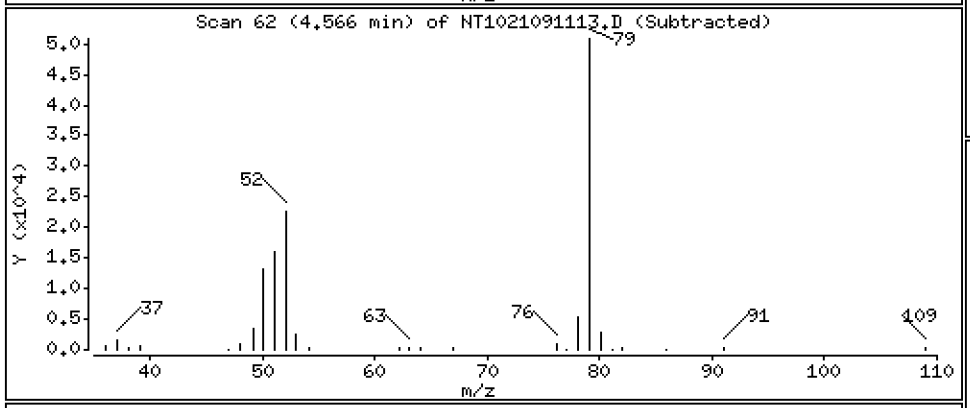
Column diameter: 0.25

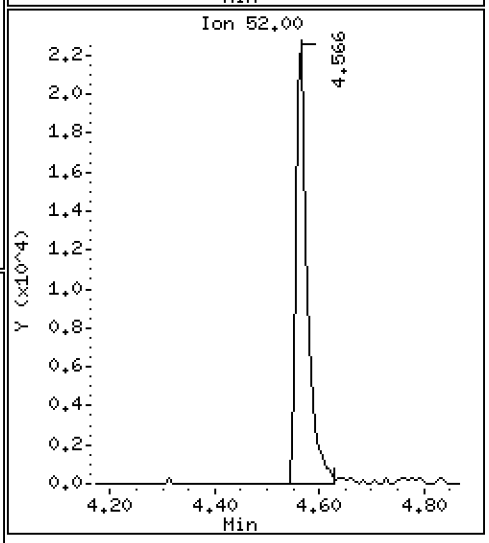
103 Pyridine

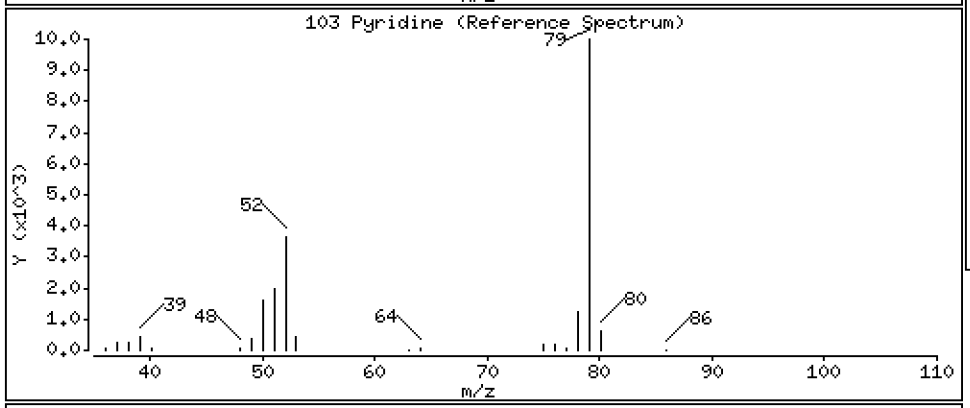
Concentration: 1.003 ug/mL

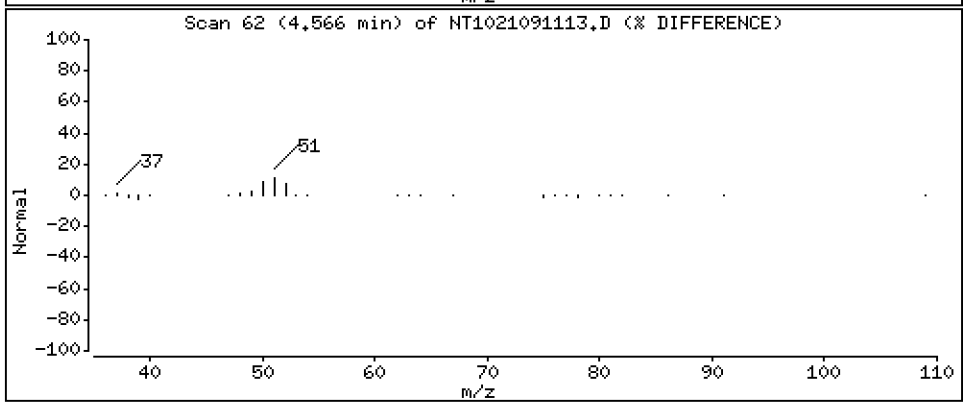












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

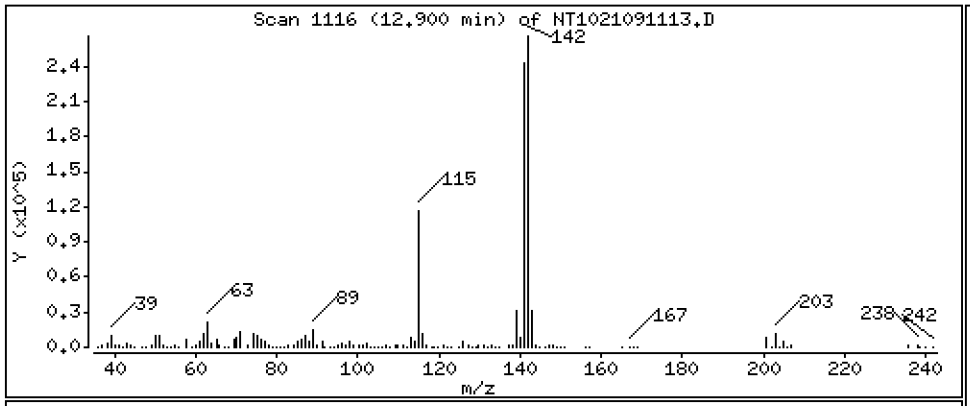
Operator: VTS

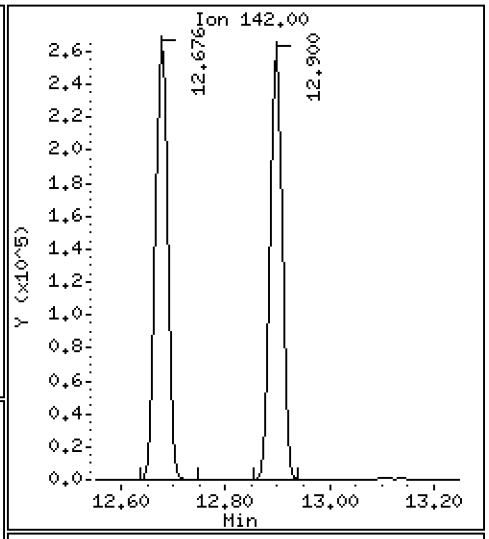
Column phase: ZB-5msi

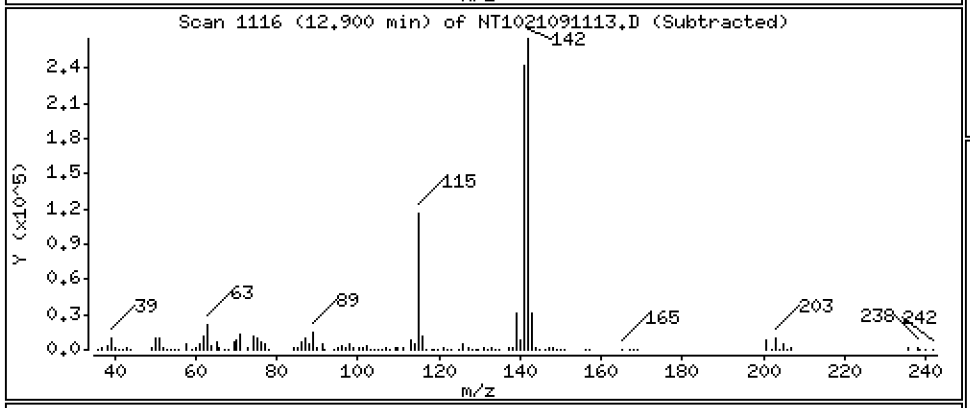
Column diameter: 0.25

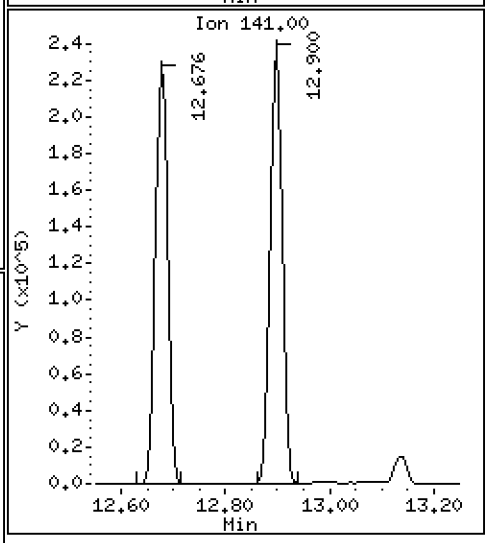
105 1-methylnaphthalene

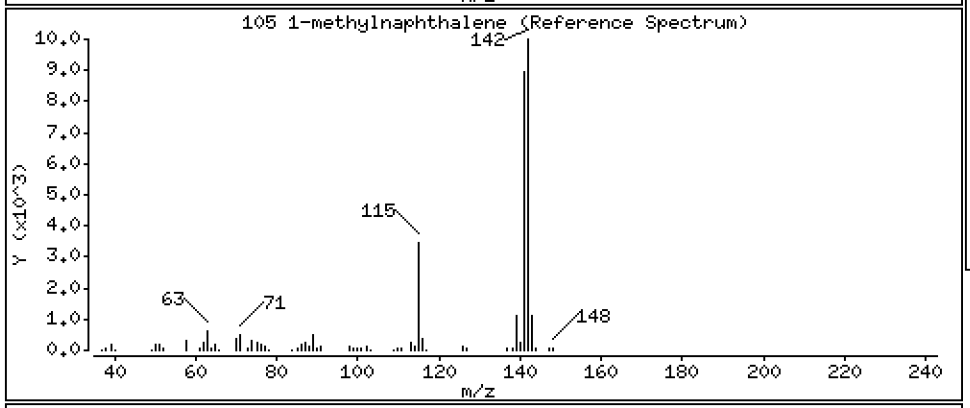
Concentration: 4.258 ug/mL

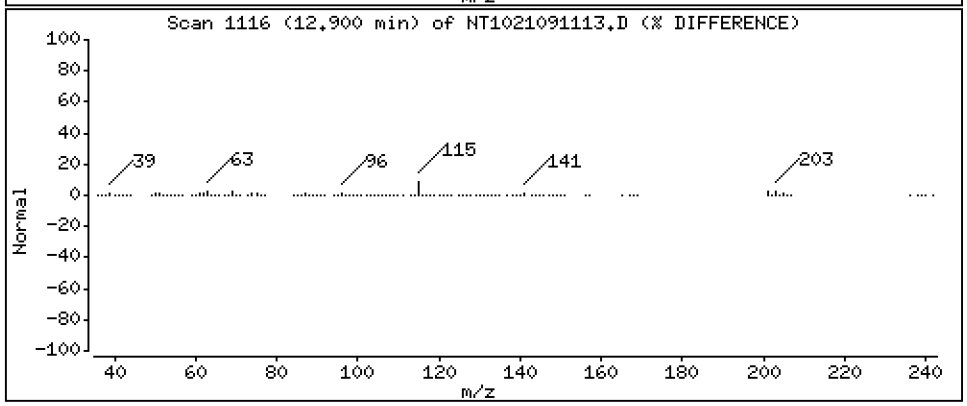












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

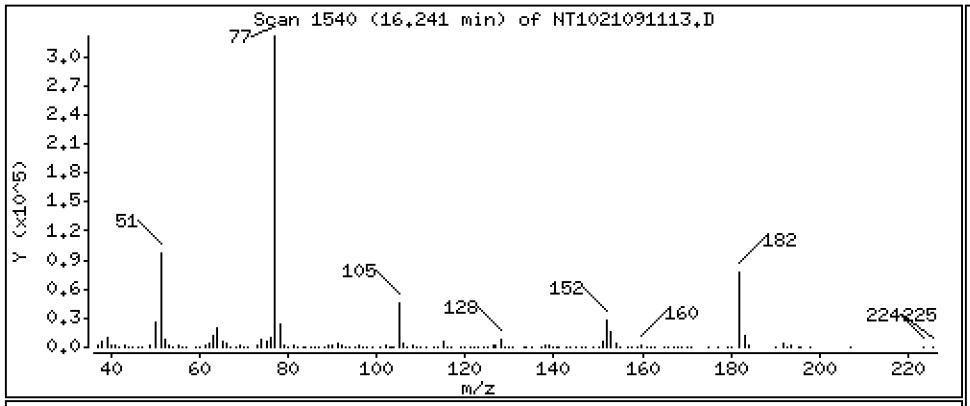
Operator: VTS

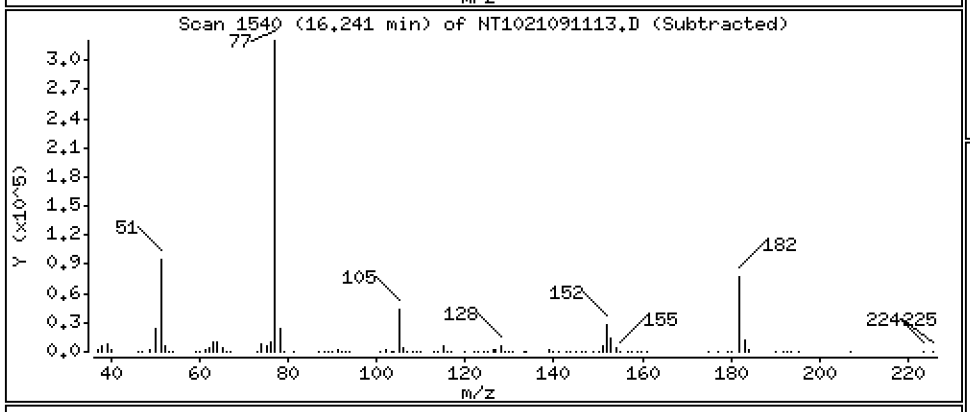
Column phase: ZB-5msi

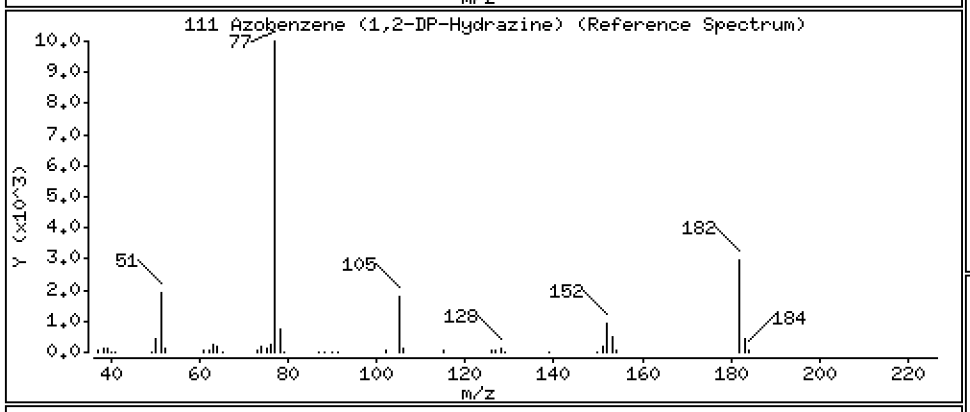
Column diameter: 0.25

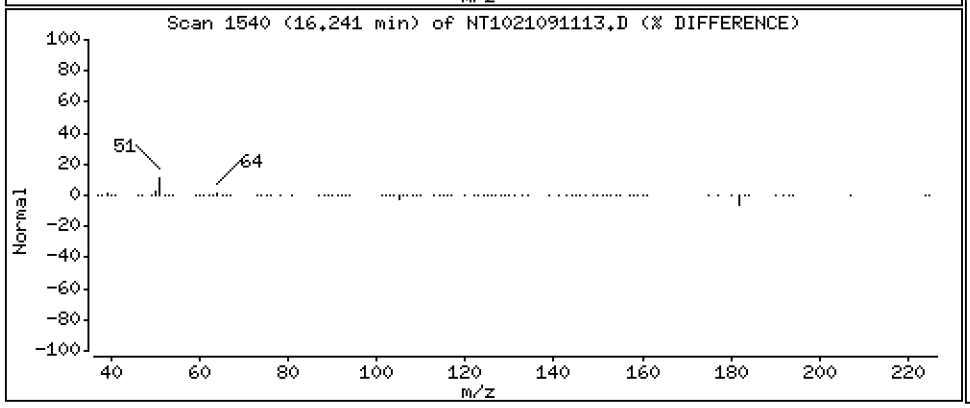
111 Azobenzene (1,2-DP-Hydrazine)

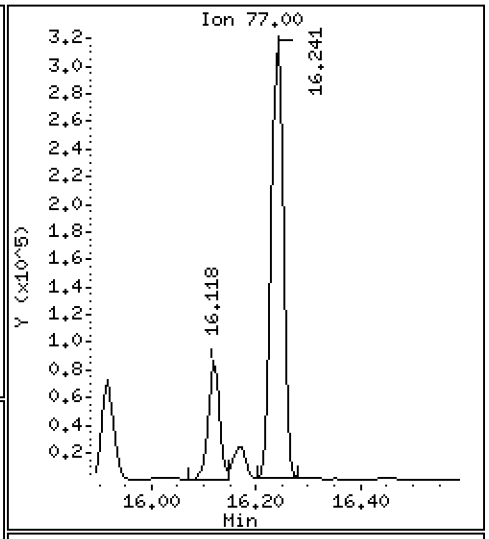
Concentration: 6.048 ug/mL

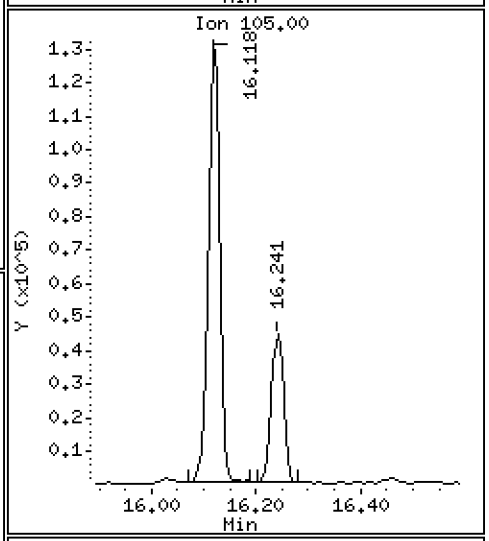


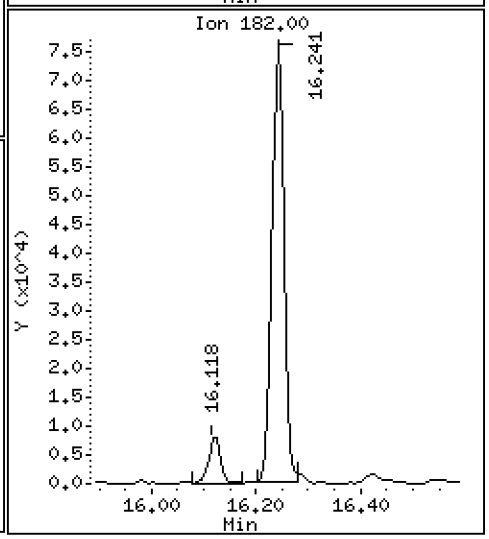












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

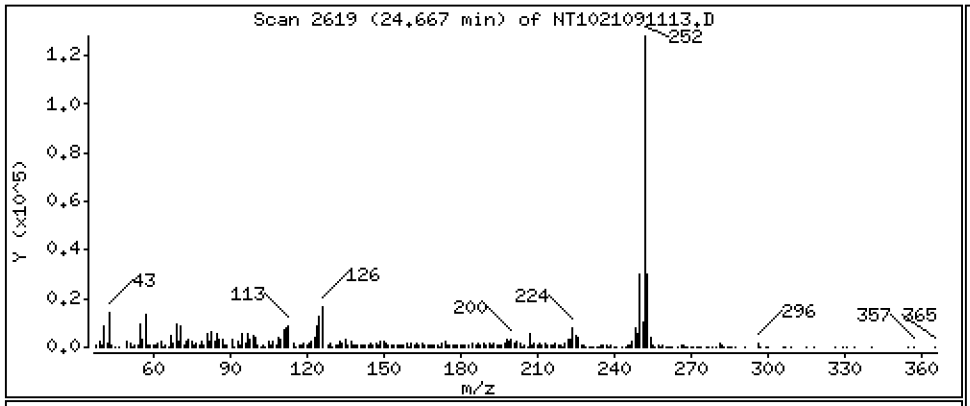
Operator: VTS

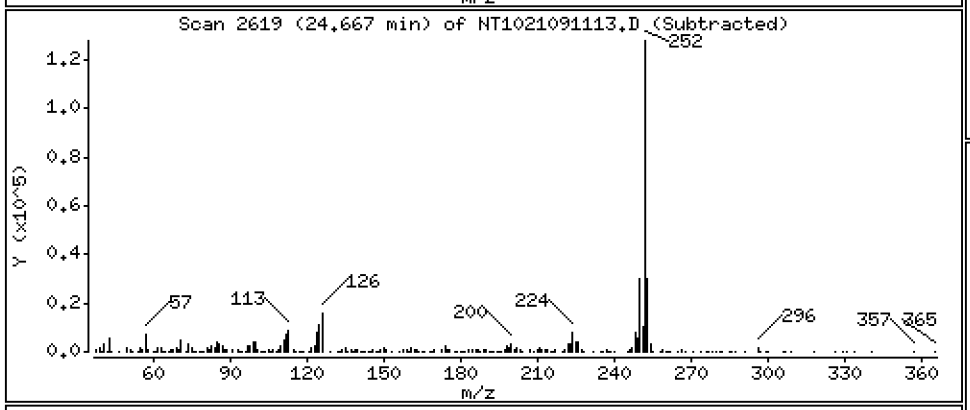
Column phase: ZB-5msi

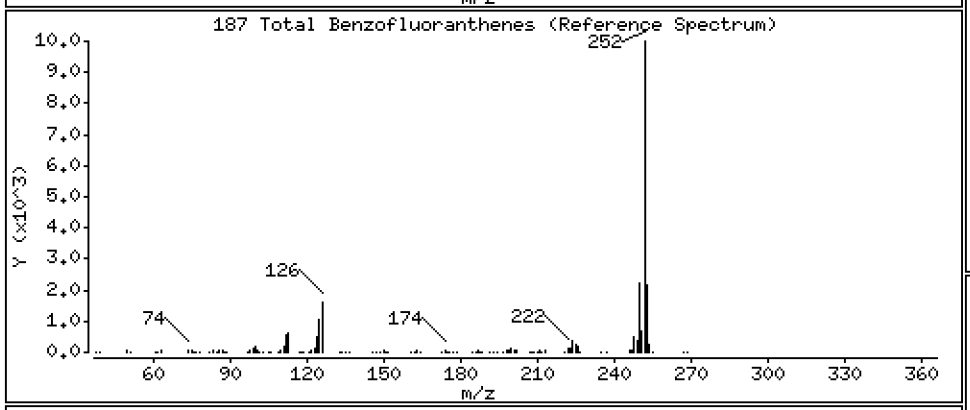
Column diameter: 0.25

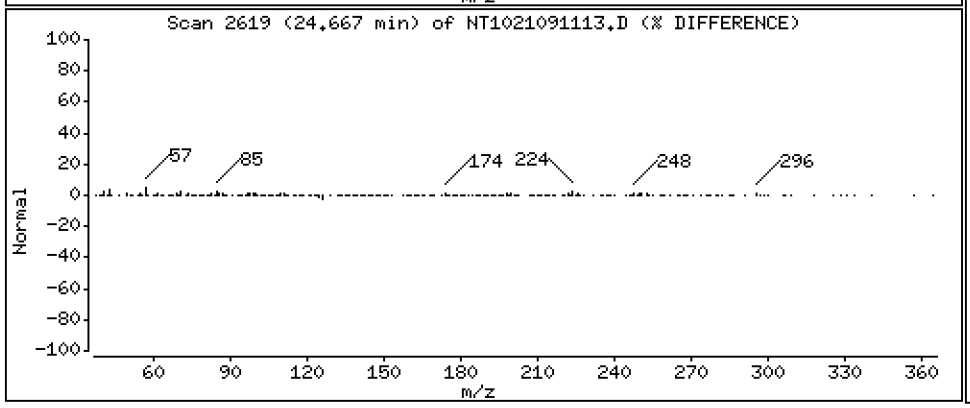
187 Total Benzofluoranthenes

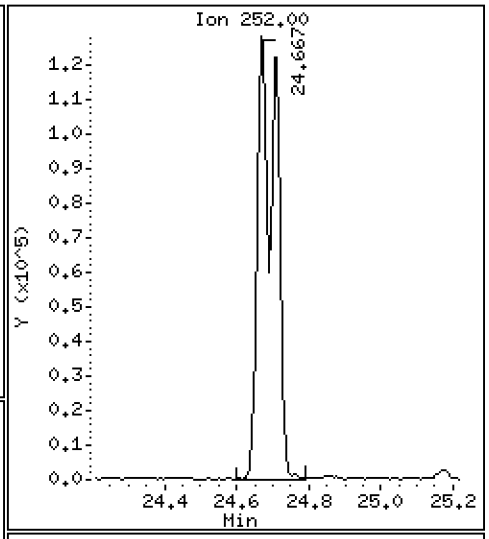
Concentration: 9.059 ug/mL

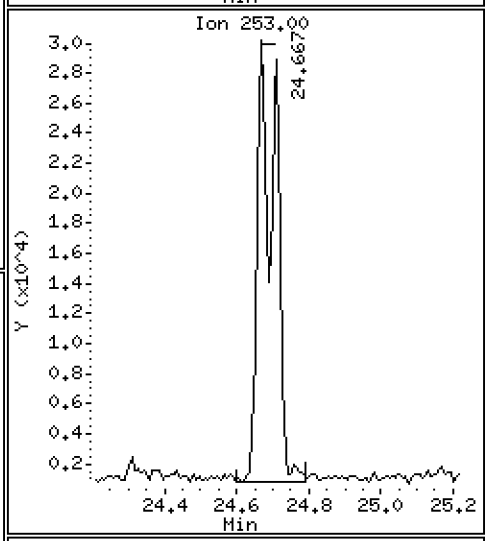


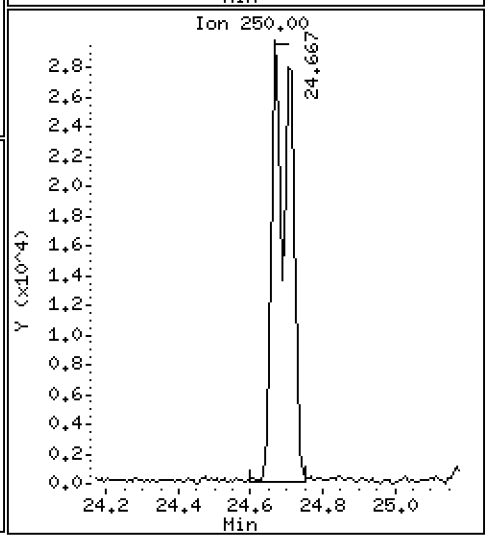












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Date : 11-SEP-2021 18:05

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-MSD1

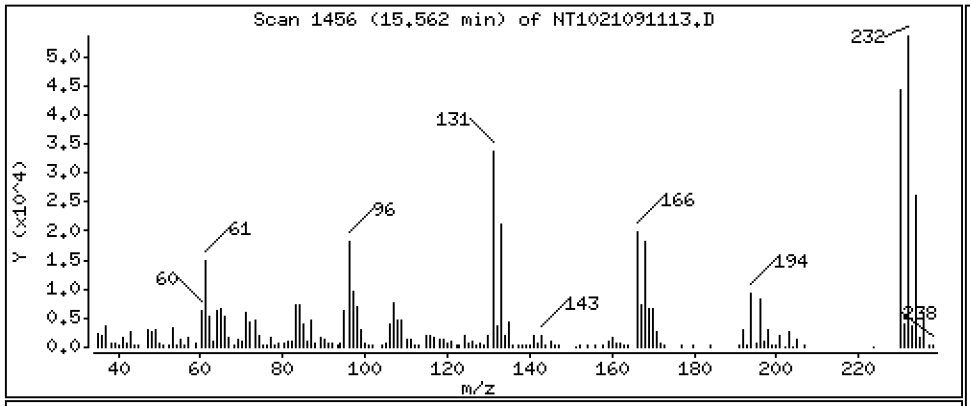
Operator: VTS

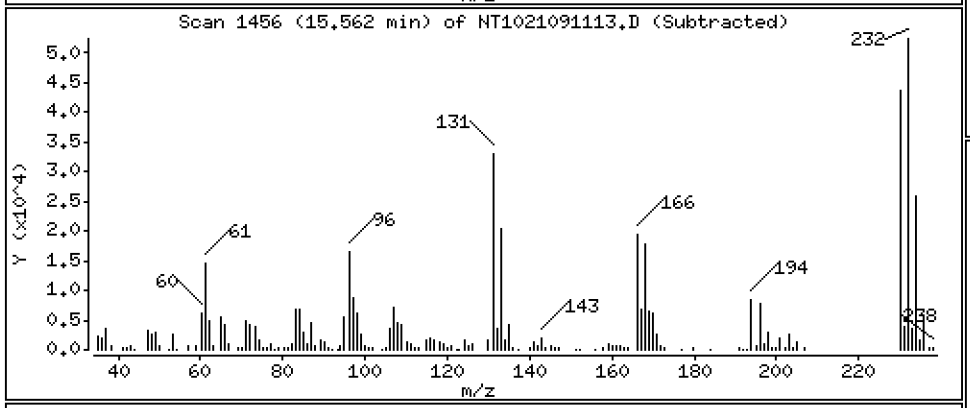
Column phase: ZB-5msi

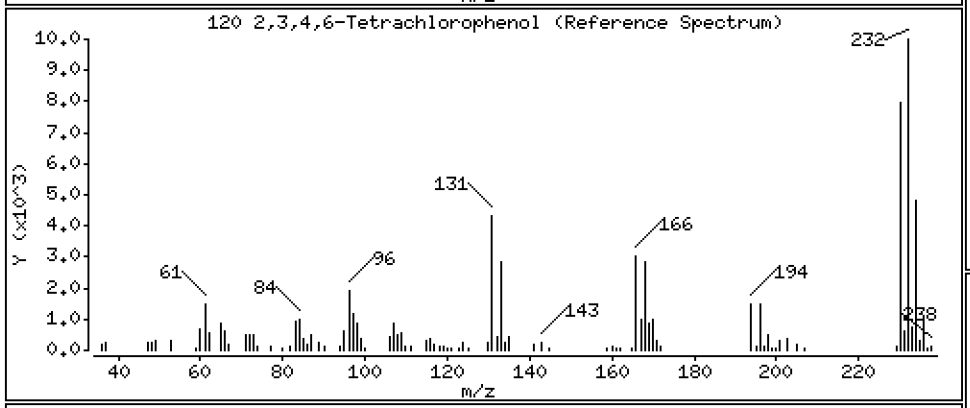
Column diameter: 0.25

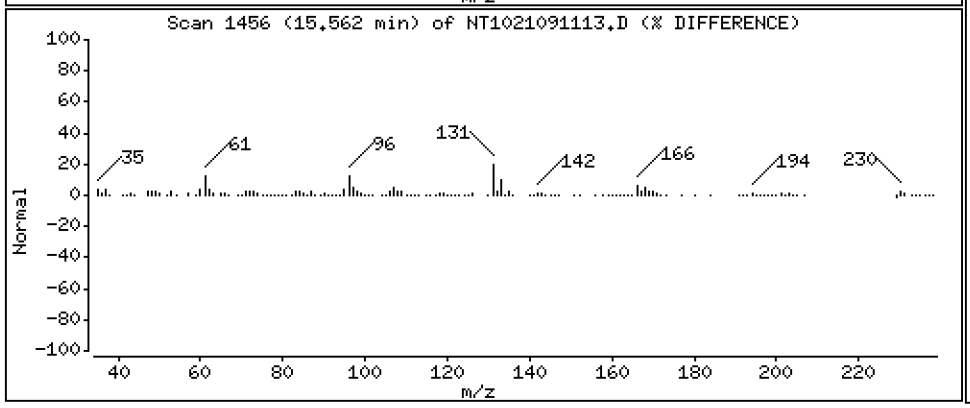
120 2,3,4,6-Tetrachlorophenol

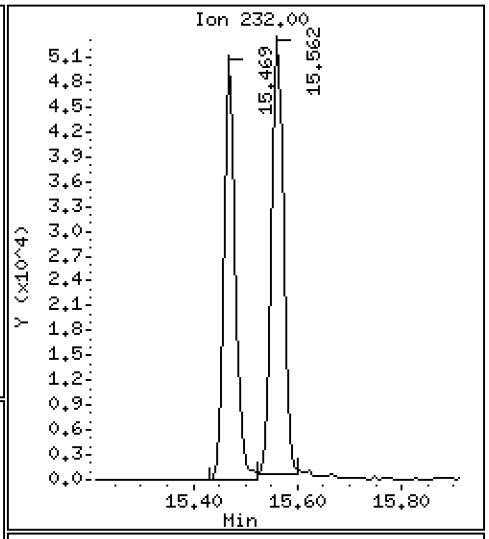
Concentration: 4.617 ug/mL

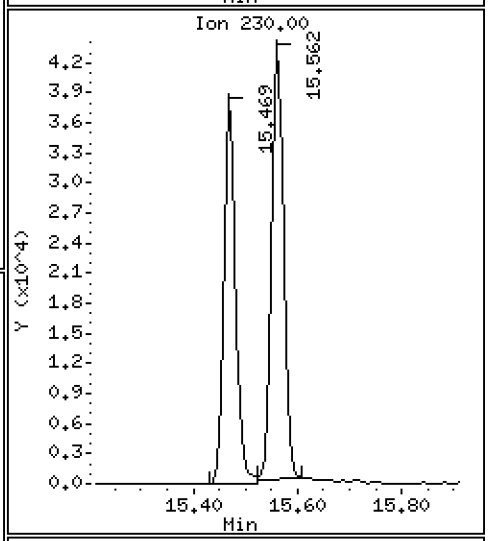


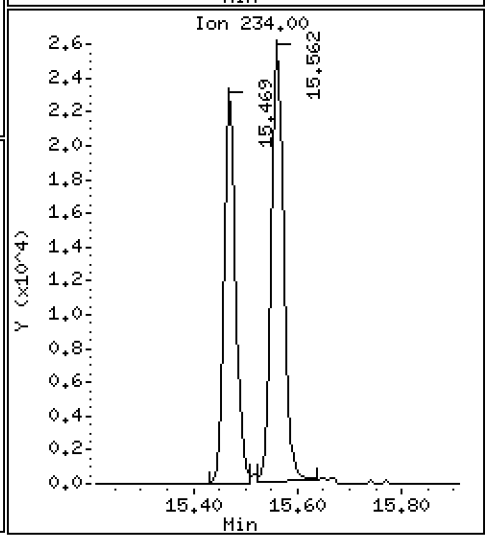












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091113.D
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Inj Date : 11-SEP-2021 18:05
Operator : VTS Inst ID: nt10.i
Smp Info : BJH0655-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.651	6.635	(0.754)	463996	11.1836	11.18
$	2 Phenol-d5	99	8.212	8.204	(0.932)	844443	14.2207	14.22
	3 Phenol	94	8.235	8.227	(0.934)	233885	4.30339	4.303
$	5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	580619	13.7263	13.73
	4 Bis(2-Chloroethyl)ether	93	8.367	8.366	(0.949)	180691	4.54411	4.544
	6 2-Chlorophenol	128	8.490	8.490	(0.963)	183957	4.07907	4.079
	7 1,3-Dichlorobenzene	146	8.753	8.745	(0.993)	188585	4.02172	4.022
*	8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	124098	4.00000	
	9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	168684	4.75161	4.752
$	10 1,2-Dichlorobenzene-d4	152	9.165	9.164	(1.040)	236082	8.21630	8.216
	12 1,2-Dichlorobenzene	146	9.188	9.188	(1.042)	173805	4.30201	4.302
	11 Benzyl alcohol	108	9.087	9.087	(1.031)	101297	4.05188	4.052
	14 2,2'-oxybis(1-Chloropropane)	121	9.382	9.374	(1.064)	61585	5.13962	5.140
	13 2-Methylphenol	108	9.320	9.320	(1.057)	147549	4.28623	4.286
	17 Hexachloroethane	117	9.770	9.778	(1.108)	80963	5.27320	5.273
	16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	124802	5.16835	5.168
	15 4-Methylphenol	108	9.592	9.584	(1.088)	175996	4.78647	4.786
$	18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	471397	10.9411	10.94
	19 Nitrobenzene	77	9.925	9.925	(0.881)	219763	5.53234	5.532
	20 Isophorone	82	10.368	10.367	(0.921)	443153	7.21853	7.219
	21 2-Nitrophenol	139	10.546	10.545	(0.937)	114715	5.07084	5.071
	22 2,4-Dimethylphenol	107	10.613	10.605	(0.943)	540309	15.4772	15.48
	23 Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	176866	4.88034	4.880
	24 Benzoic acid	105	10.826	10.834	(0.961)	397569	21.8737	21.87
	25 2,4-Dichlorophenol	162	11.004	11.004	(0.977)	532095	14.8726	14.87
	26 1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	147278	4.25320	4.253
*	27 Naphthalene-d8	136	11.260	11.260	(1.000)	411493	4.00000	
	28 Naphthalene	128	11.299	11.306	(1.003)	460767	4.51355	4.514
	29 4-Chloroaniline	127	11.438	11.437	(1.016)	315493	6.37870	6.379
	30 Hexachlorobutadiene	225	11.654	11.654	(1.035)	90778	4.76496	4.765
	31 4-Chloro-3-methylphenol	107	12.405	12.405	(1.102)	620694	17.2649	17.26
	32 2-Methylnaphthalene	142	12.676	12.675	(1.126)	414336	4.25308	4.253
	33 Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	153394	8.91187	8.912

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	398080	16.7761	16.78
	35 2,4,5-Trichlorophenol	196	13.380	13.380	(0.902)	413714	16.5960	16.60
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	958323	10.2507	10.25
	37 2-Chloronaphthalene	162	13.658	13.658	(0.921)	383598	5.15412	5.154
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	411443	18.6185	18.62
	39 Dimethylphthalate	163	14.347	14.347	(0.967)	385755	5.02640	5.026
	40 Acenaphthylene	152	14.518	14.525	(0.979)	485058	4.18276	4.183
	41 2,6-Dinitrotoluene	165	14.494	14.486	(0.977)	284049	16.7592	16.76
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	234000	4.00000	
	43 3-Nitroaniline	138	14.773	14.773	(0.996)	202849	8.88875	8.889
	44 Acenaphthene	153	14.897	14.896	(1.004)	285718	4.65805	4.658
	45 2,4-Dinitrophenol	184	14.982	14.982	(1.010)	223408	24.0225	24.02
	46 Dibenzofuran	168	15.221	15.221	(1.026)	477038	4.37661	4.377
	47 4-Nitrophenol	109	15.121	15.113	(1.019)	188056	22.5140	22.51
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	392357	16.5837	16.58
	50 Diethylphthalate	149	15.793	15.793	(1.065)	376524	5.44296	5.443
	49 Fluorene	166	15.925	15.925	(1.073)	446509	4.61572	4.616
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	212889	4.91660	4.917
	52 4-Nitroaniline	138	16.033	16.025	(1.081)	257909	10.8693	10.87
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	429952	28.3124	28.31
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	271350	4.93020	4.930
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	154960	16.9655	16.97
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	115799	5.24911	5.249
	57 Hexachlorobenzene	284	17.221	17.221	(0.965)	101683	4.86222	4.862
	58 Pentachlorophenol	266	17.585	17.584	(0.986)	128491	15.9464	15.95
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	367971	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	433975	4.83061	4.831
	61 Anthracene	178	17.979	17.979	(1.008)	442909	4.58856	4.589
	62 Carbazole	167	18.312	18.312	(1.026)	466015	4.68772	4.688
	63 Di-n-butylphthalate	149	19.124	19.116	(1.072)	661117	5.37549	5.375
	64 Fluoranthene	202	20.277	20.269	(0.886)	433395	6.22740	6.227
	65 Pyrene	202	20.695	20.695	(0.904)	404962	5.66957	5.670
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	469970	10.4710	10.47
	67 Butylbenzylphthalate	149	21.918	21.918	(0.958)	160503	5.70959	5.710
	68 Benzo(a)anthracene	228	22.863	22.863	(0.999)	253472	4.56333	4.563
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	158992	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.816	22.824	(0.997)	90885	4.11259	4.113
	71 Chrysene	228	22.932	22.932	(1.002)	214387	4.86858	4.869
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	217392	5.95780	5.958
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	379142	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	396861	4.74927	4.749
	74 Benzo(b)fluoranthene	252	24.667	24.674	(0.972)	246171	4.64730	4.647
	75 Benzo(k)fluoranthene	252	24.713	24.713	(0.974)	230652	4.44180	4.442
	76 Benzo(a)pyrene	252	25.271	25.270	(0.996)	203876	4.35694	4.357
*	77 Perylene-d12	264	25.379	25.379	(1.000)	143980	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.812	27.812	(1.096)	229001	4.73733	4.737
	79 Dibenzo(a,h)anthracene	278	27.827	27.819	(1.096)	183661	4.96611	4.966
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	177946	4.21526	4.215
	90 N-Nitrosodimethylamine	74	4.527	4.504	(0.514)	248542	9.30234	9.302
	91 Aniline	93	8.282	8.281	(0.939)	390334	6.29090	6.291
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.566	4.519	(0.518)	84673	1.00314	1.003
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	400138	4.25822	4.258
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.241	16.241	(1.095)	482777	6.04830	6.048

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.667	24.713	(0.972)	457786	9.05867	9.059
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	79532	4.61660	4.617

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091113.D
Lab Smp Id: BJH0655-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	124098	-9.88
27 Naphthalene-d8	447216	223608	894432	411493	-7.99
42 Acenaphthene-d10	264765	132383	529530	234000	-11.62
59 Phenanthrene-d10	428682	214341	857364	367971	-14.16
69 Chrysene-d12	221118	110559	442236	158992	-28.10
134 Di-n-octylphthala	404470	202235	808940	379142	-6.26
77 Perylene-d12	154408	77204	308816	143980	-6.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091113.D

Lab ID: BJH0655-MSD1
nt10.i, ABN.m, 11-SEP-2021 18:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.518	0.513	0.0053	Pyridine

RRT check based on Ccal File: NT1021091106.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Laboratory ID: BJH0655-SRM1
Batch: BJH0655
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 09/11/2021 16:11
Standard ID: I005667
Expires: 04/30/2022
Standard Lot#: CRM 143 (LRAC2475)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Naphthalene	1920.0	887	42.4	200		46.2	41 - 159
2-Methylnaphthalene	3600.0	2520	45.1	200		70.1	51 - 149
Acenaphthylene	5450.0	4520	62.4	200		83.0	57 - 142
Acenaphthene	4250.0	3900	52.2	200		91.7	59 - 141
Fluorene	5780.0	7060	146	200		122	48 - 152
Phenanthrene	2210.0	2070	87.2	200		93.6	40 - 160
Anthracene	3240.0	2720	71.9	200		84.0	52 - 148
Fluoranthene	4060.0	5750	60.9	200	Q	142	46 - 155
Pyrene	6300.0	7590	56.8	200		120	27 - 173
Benzo(a)anthracene	3280.0	3420	59.6	200		104	33 - 167
Chrysene	1750.0	1670	60.6	200		95.2	62 - 139
Benzo(a)pyrene	1690.0	1340	42.3	200		79.4	44 - 156
Indeno(1,2,3-cd)pyrene	2670.0	2760	147	200		103	27 - 173
Dibenzo(a,h)anthracene	3030.0	3180	172	200		105	19 - 181
Benzo(g,h,i)perylene	2550.0	2560	136	200		100	40 - 160

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

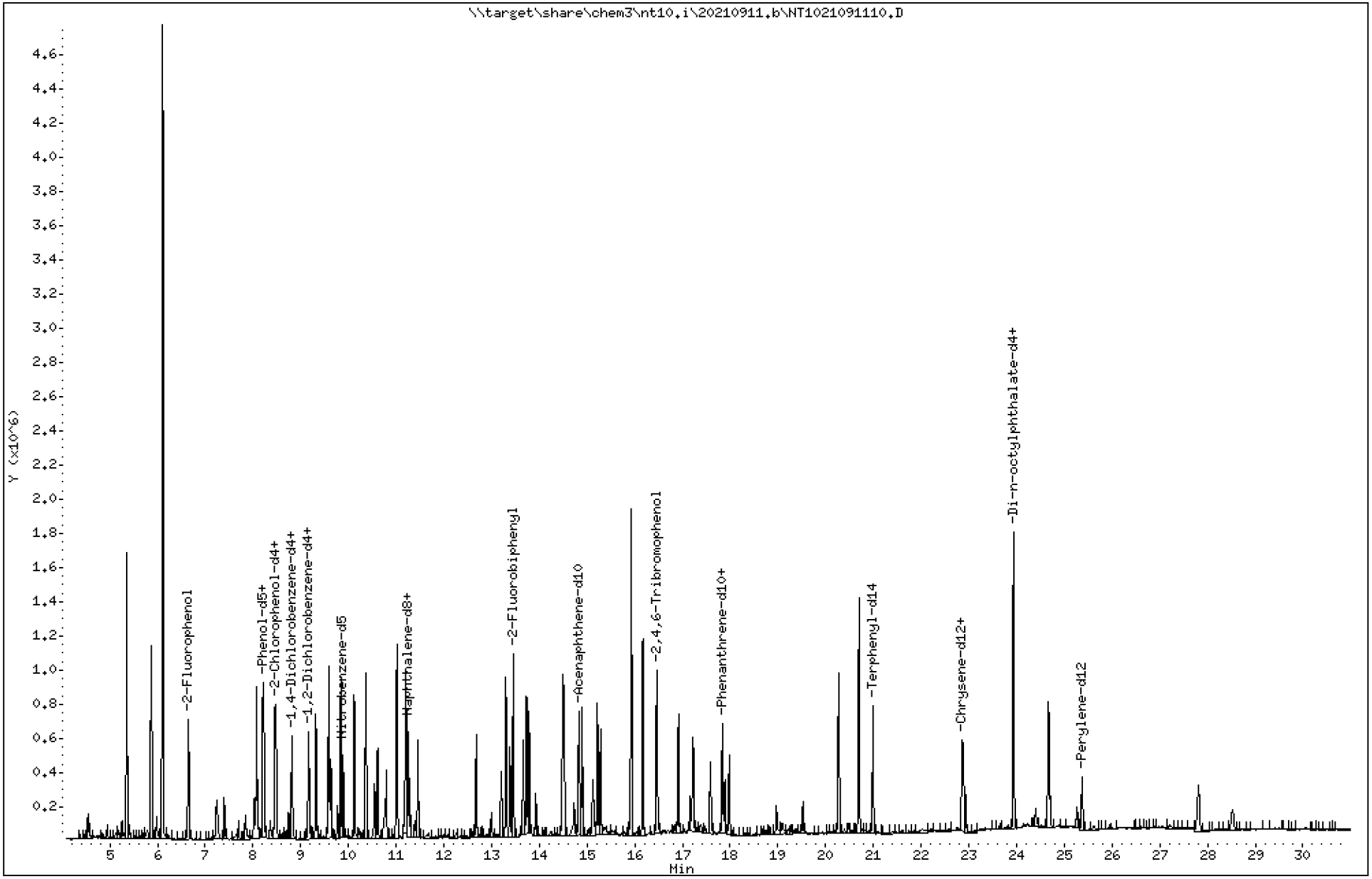
Instrument: nt10.i

Sample Info: BJH0655-SRM1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

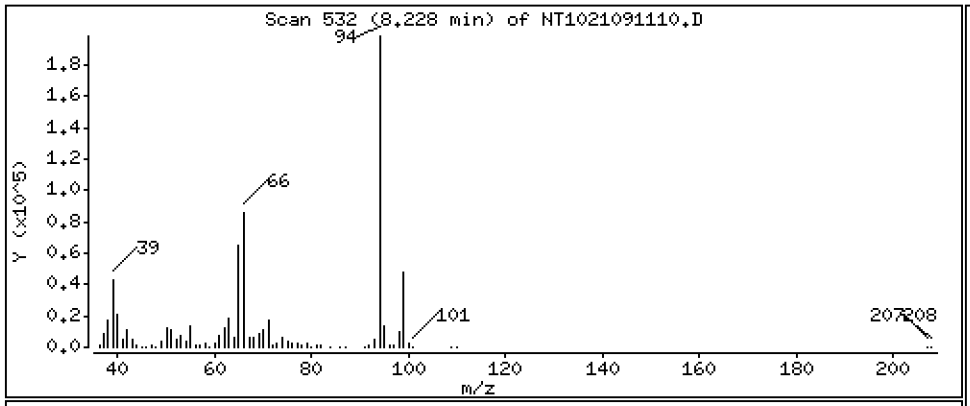
Operator: VTS

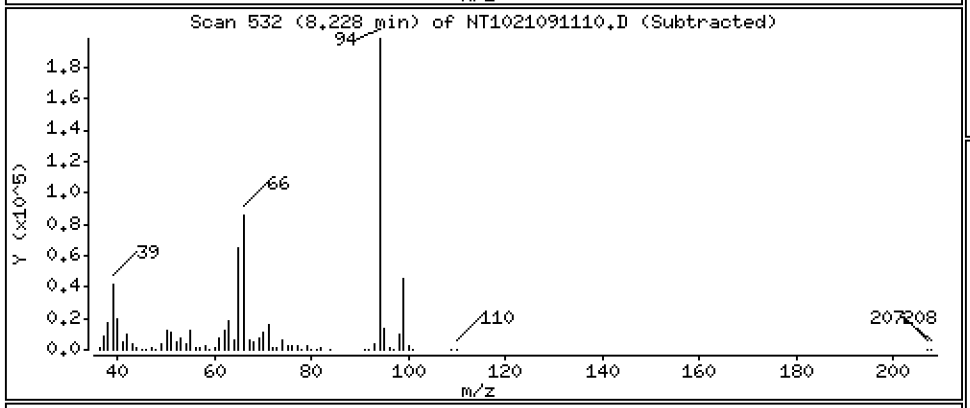
Column phase: ZB-5msi

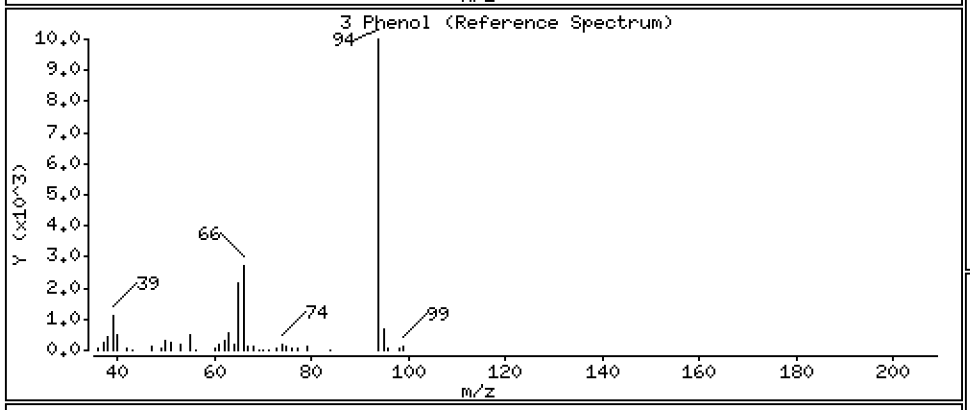
Column diameter: 0.25

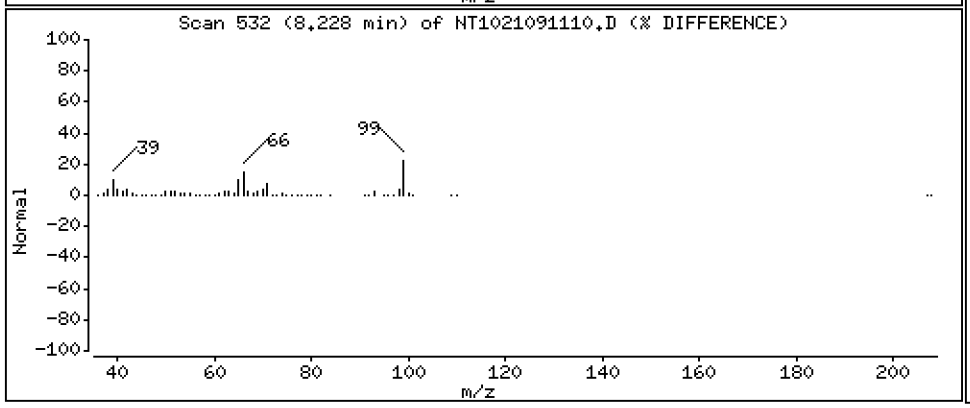
3 Phenol

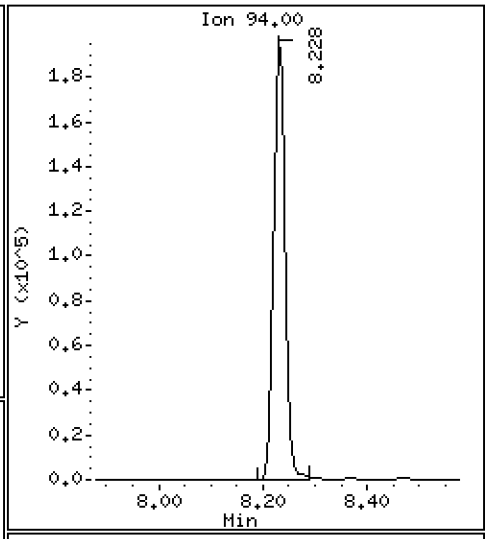
Concentration: 4.354 ug/mL

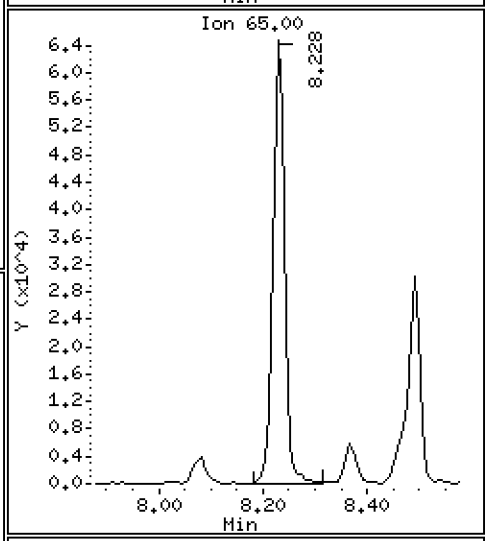


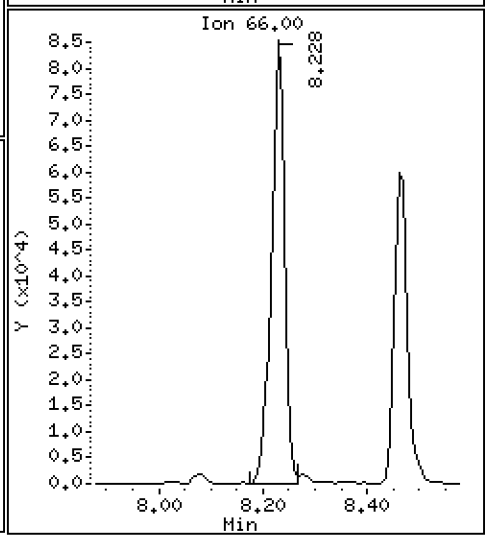












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

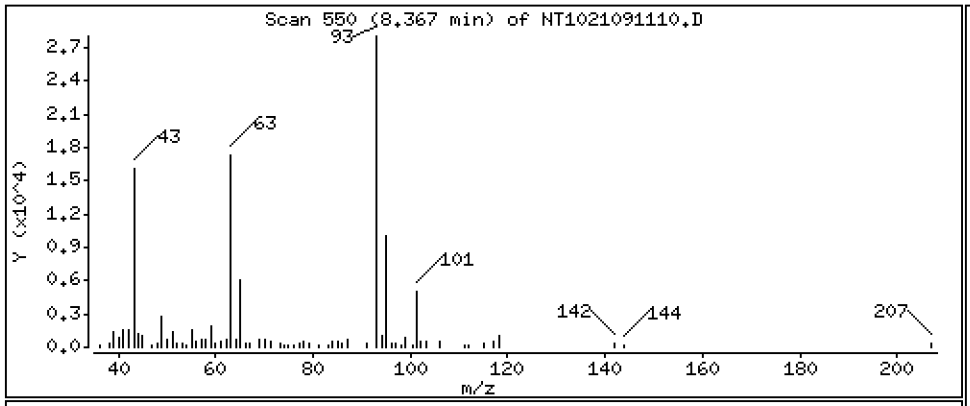
Operator: VTS

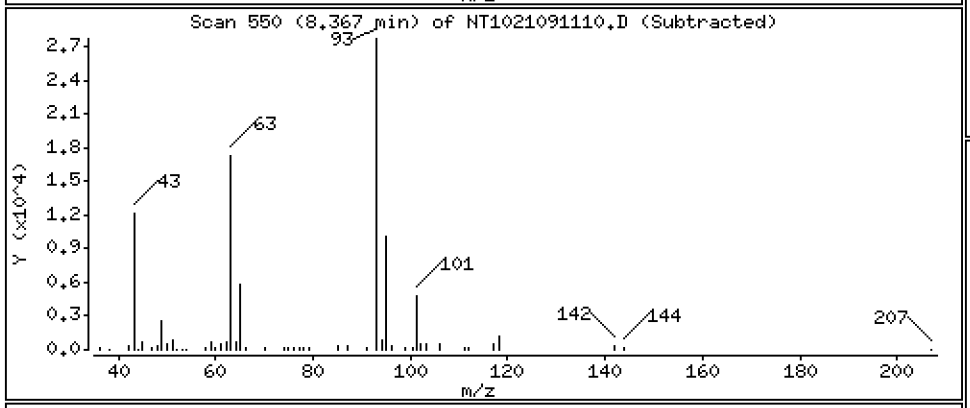
Column phase: ZB-5msi

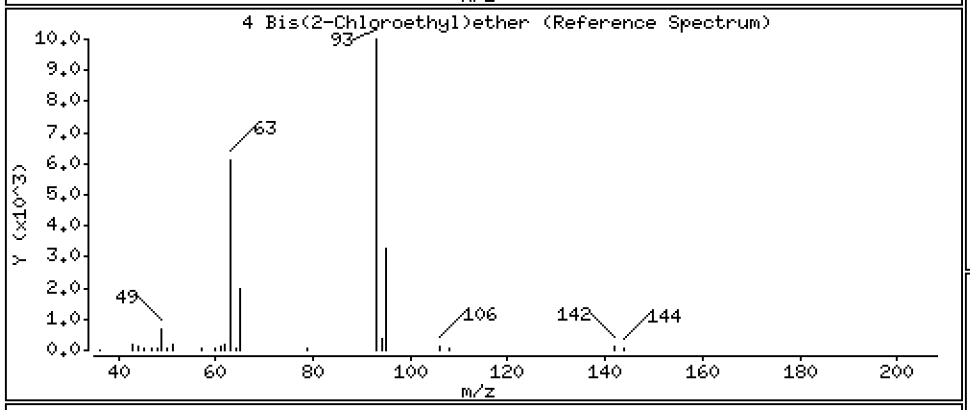
Column diameter: 0.25

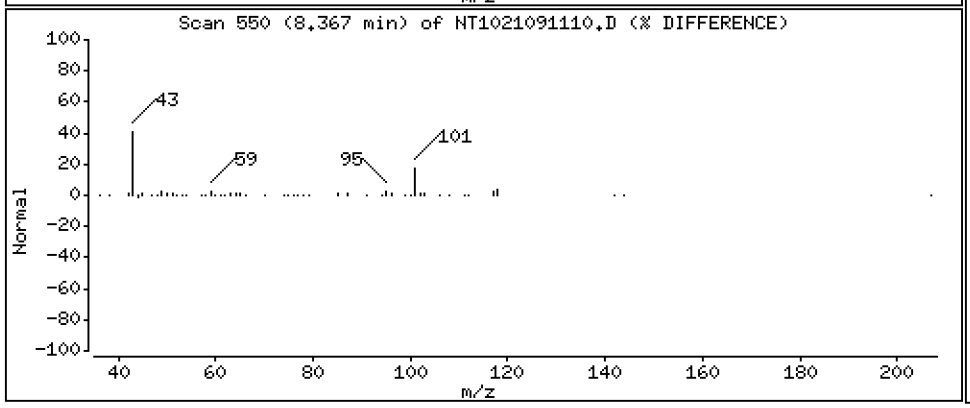
4 Bis(2-Chloroethyl)ether

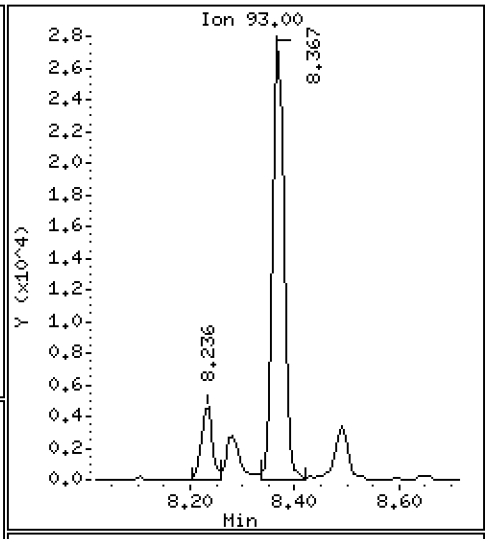
Concentration: 0.8337 ug/mL

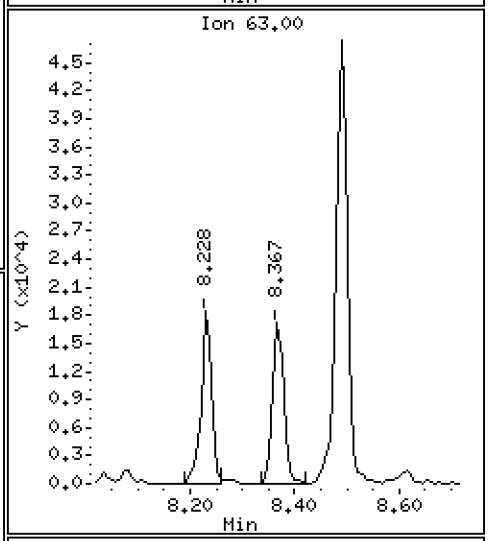


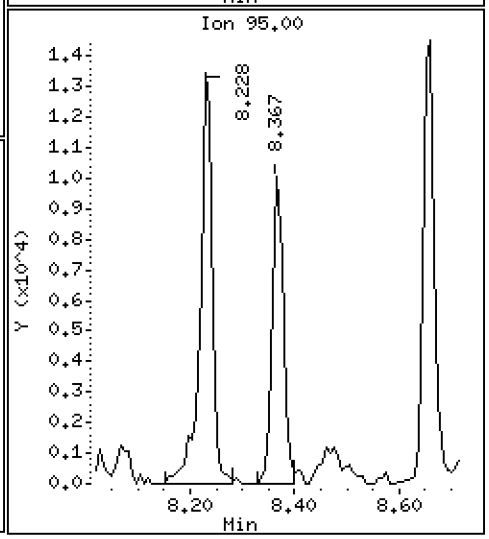












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

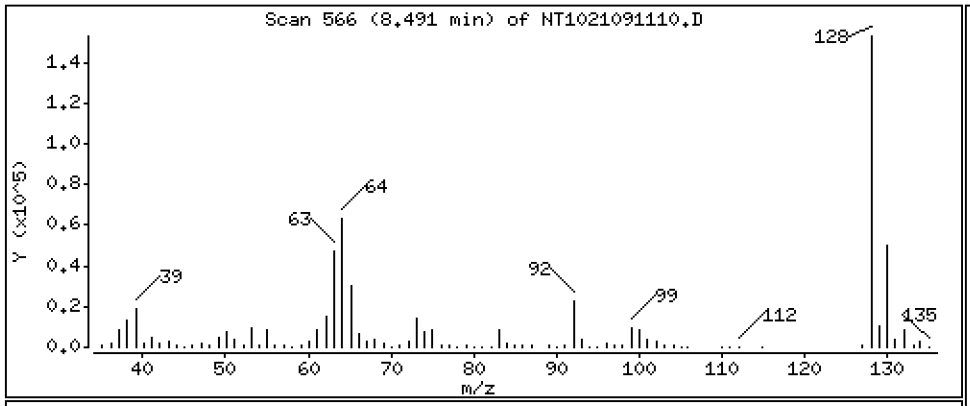
Operator: VTS

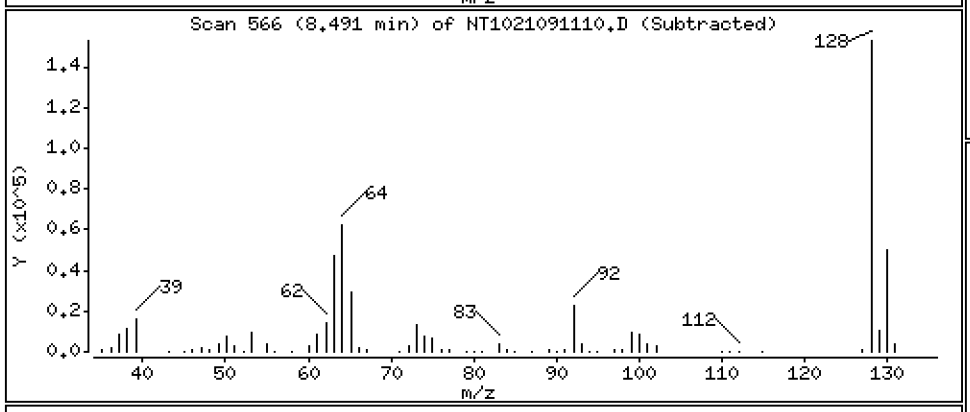
Column phase: ZB-5msi

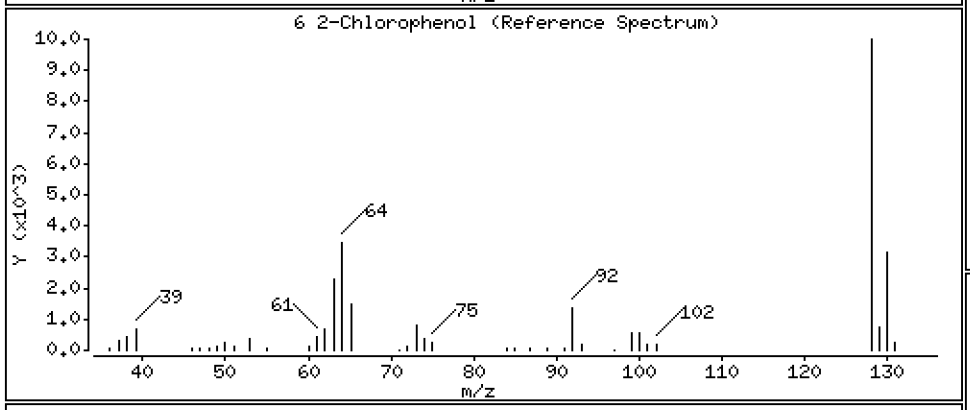
Column diameter: 0.25

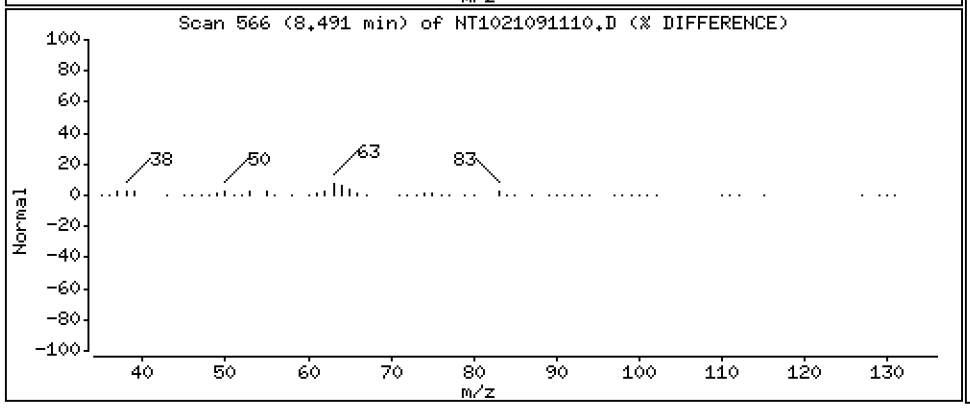
6 2-Chlorophenol

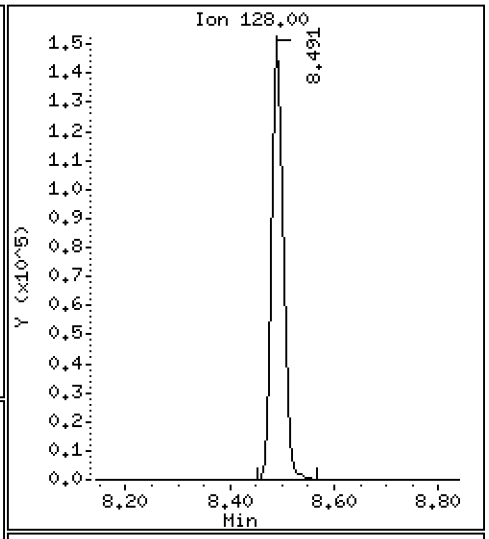
Concentration: 4.260 ug/mL

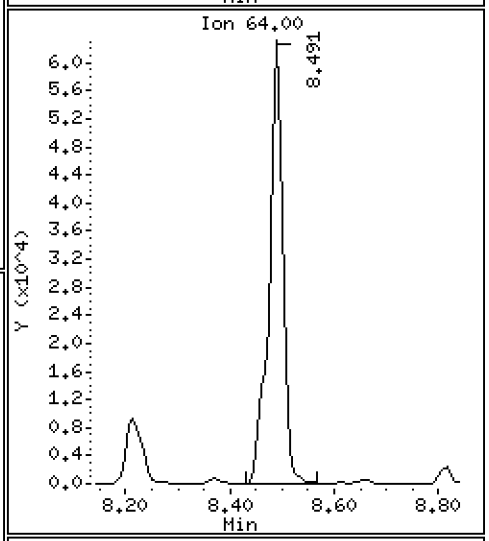


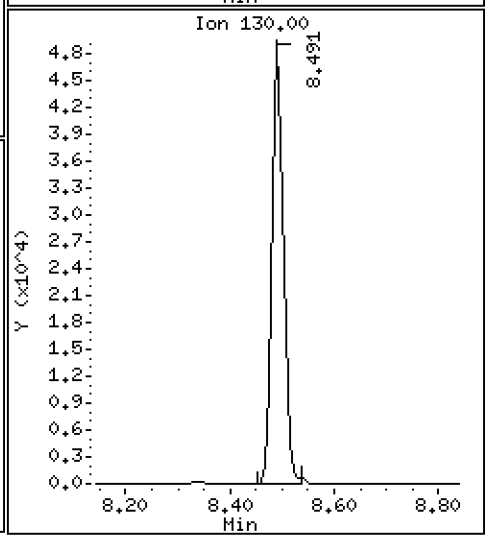












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

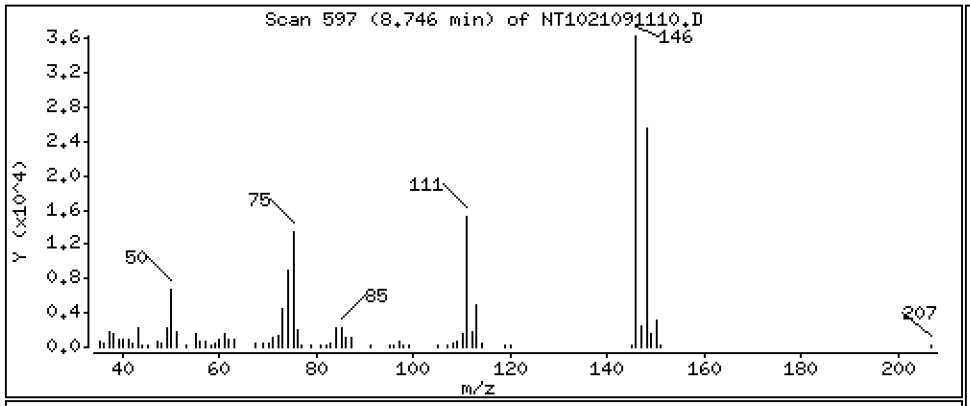
Operator: VTS

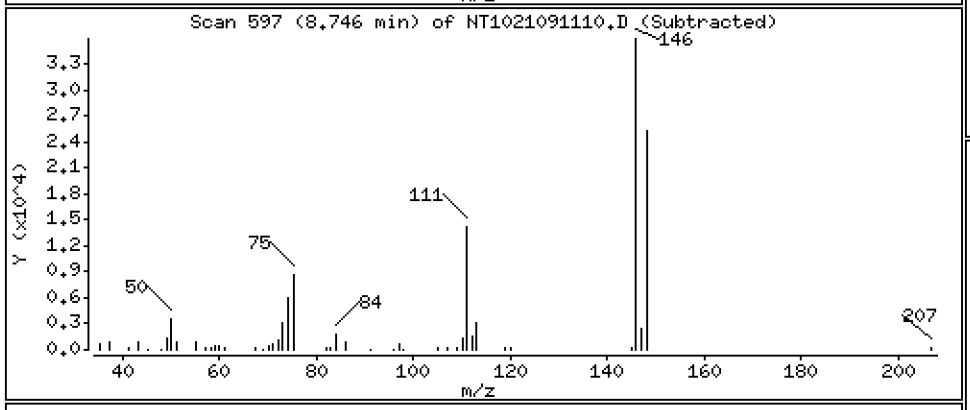
Column phase: ZB-5msi

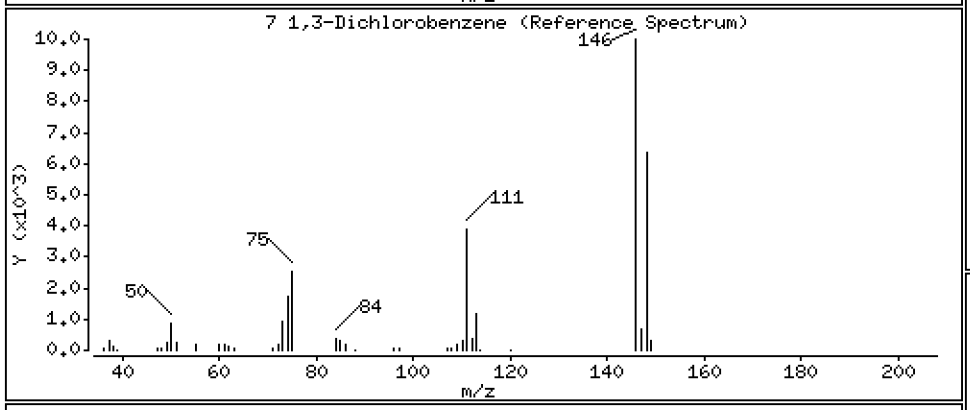
Column diameter: 0.25

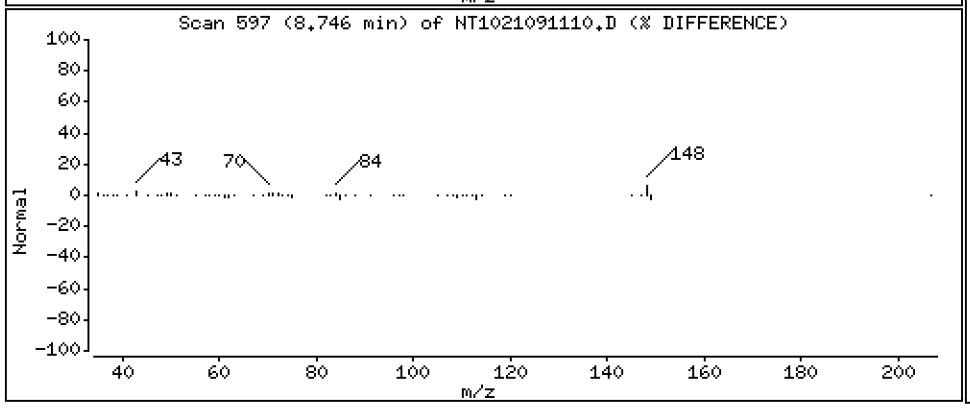
7 1,3-Dichlorobenzene

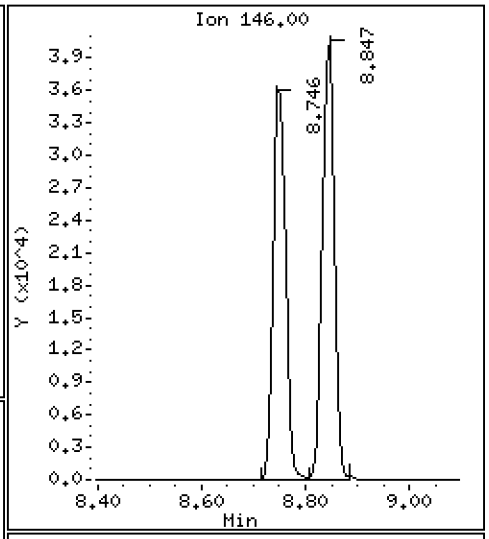
Concentration: 1.027 ug/mL

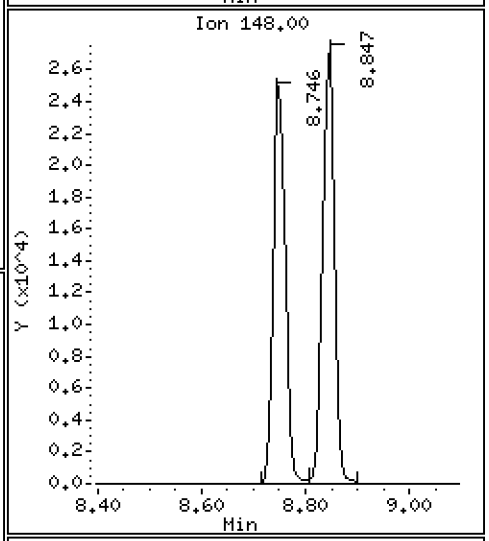


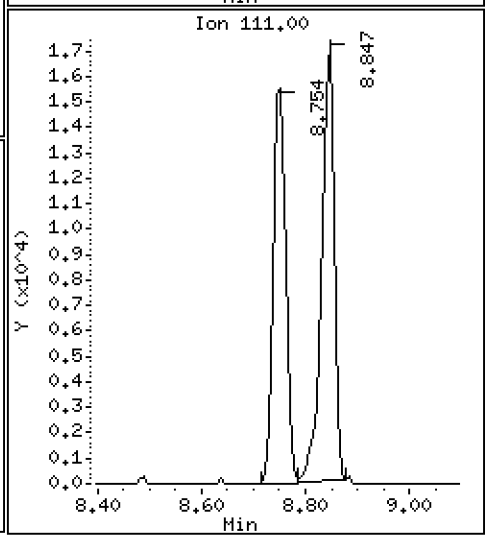












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

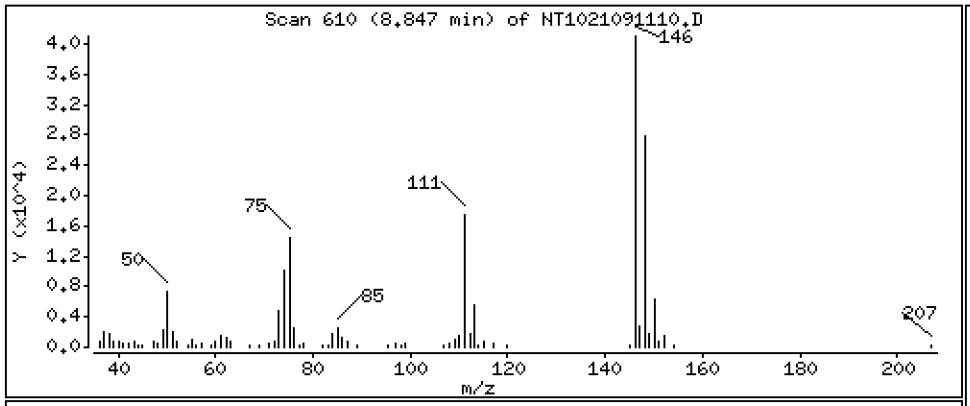
Operator: VTS

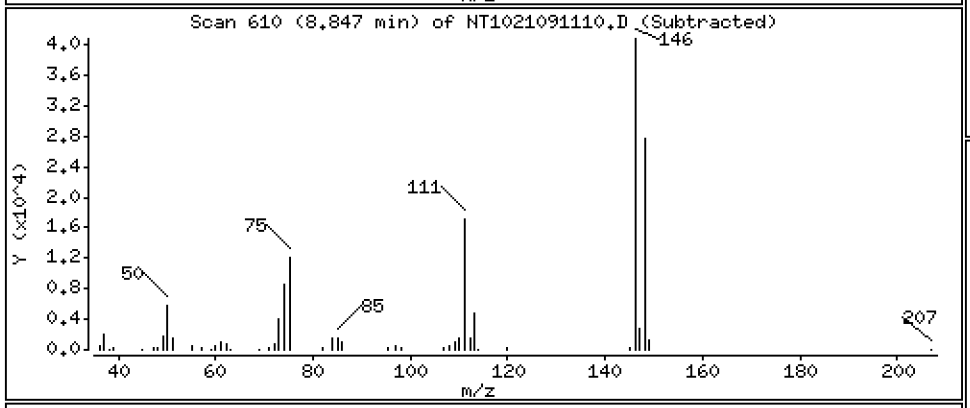
Column phase: ZB-5msi

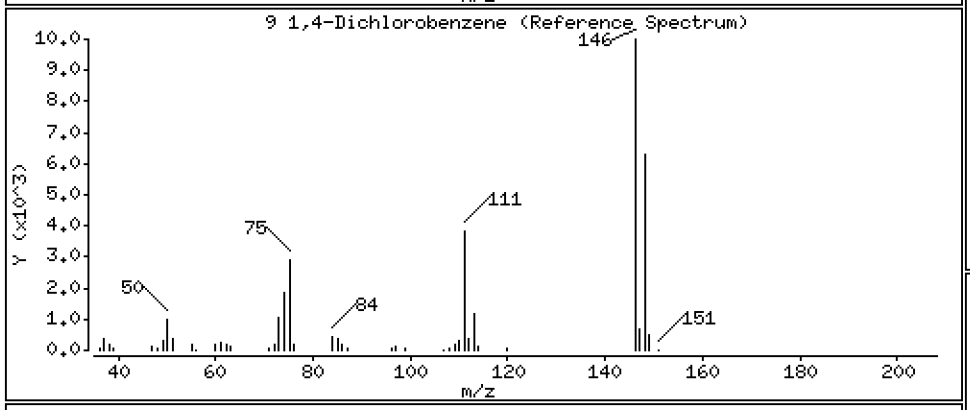
Column diameter: 0.25

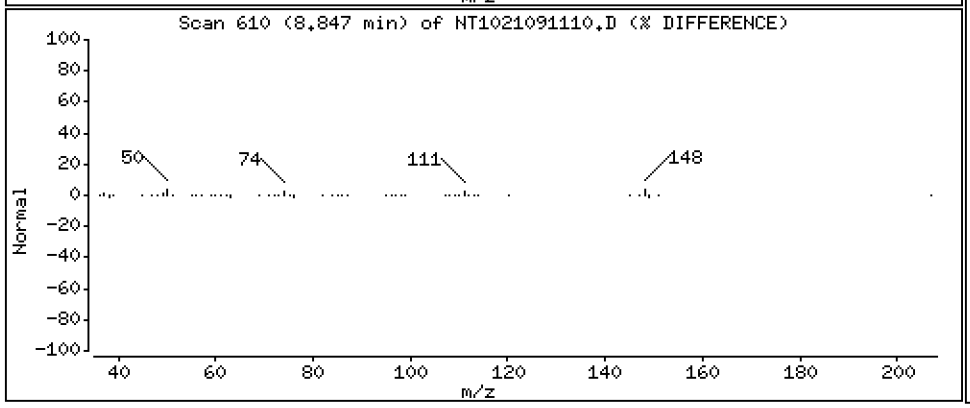
9 1,4-Dichlorobenzene

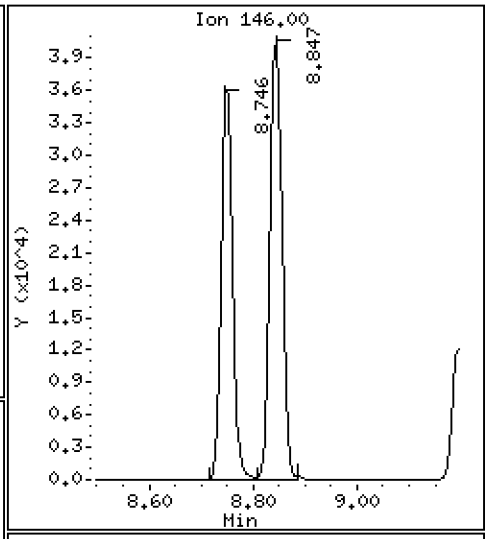
Concentration: 1.489 ug/mL

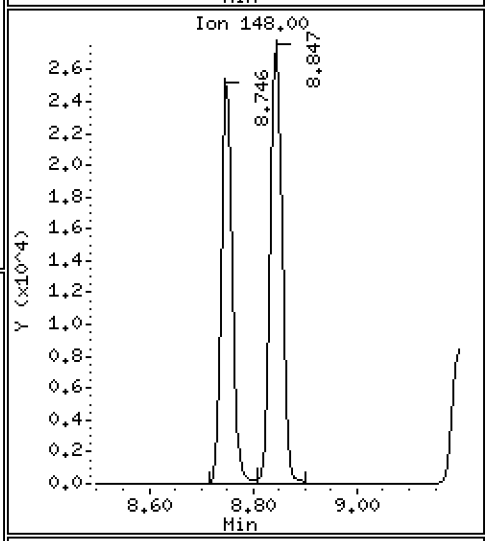


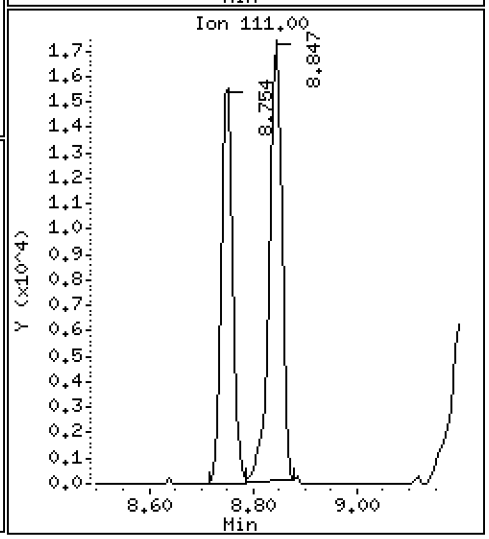












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

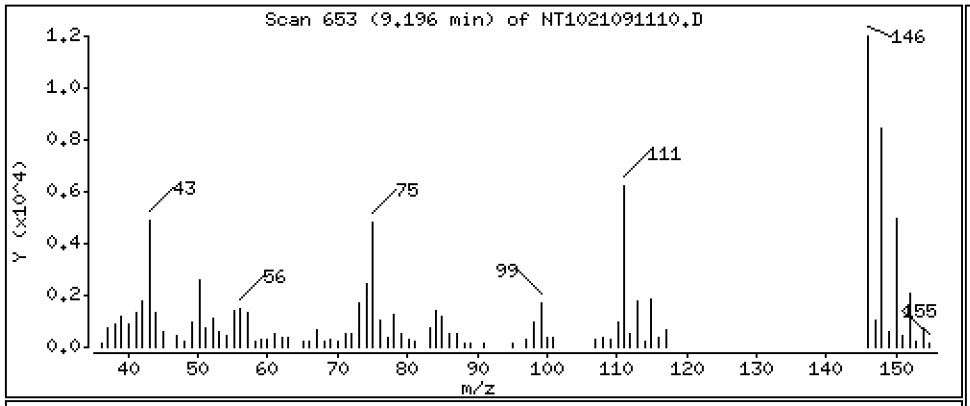
Operator: VTS

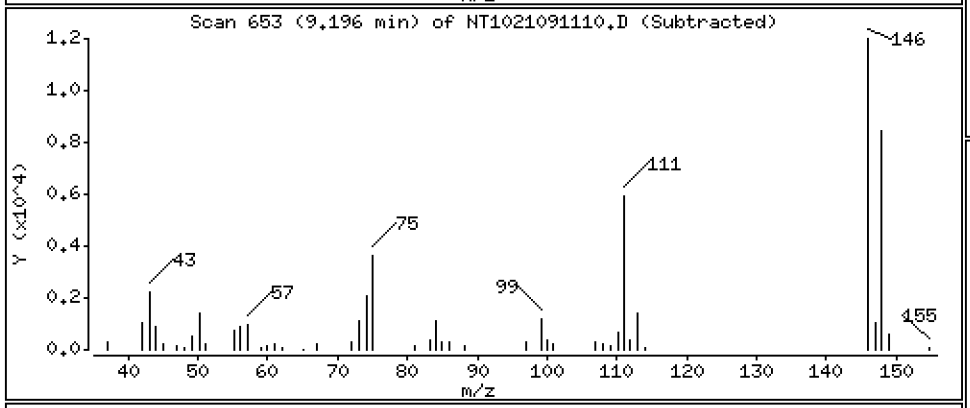
Column phase: ZB-5msi

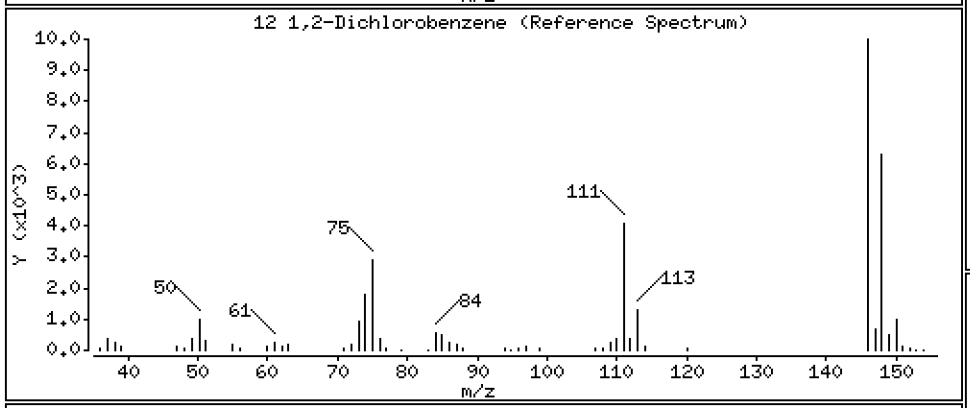
Column diameter: 0.25

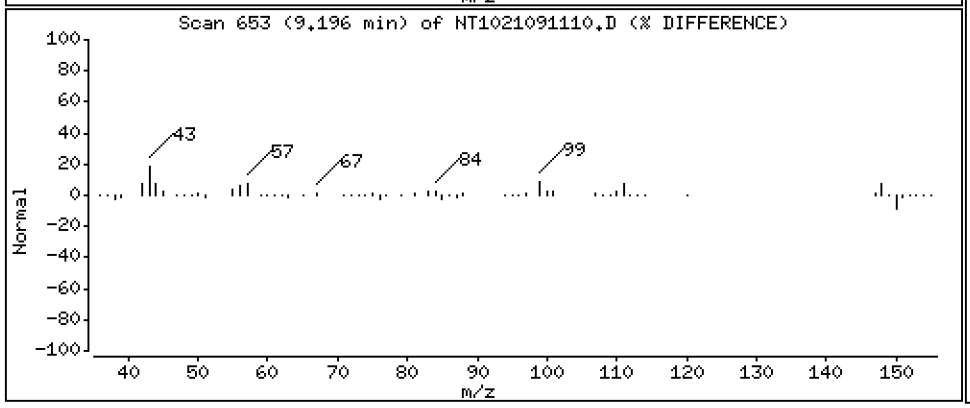
12 1,2-Dichlorobenzene

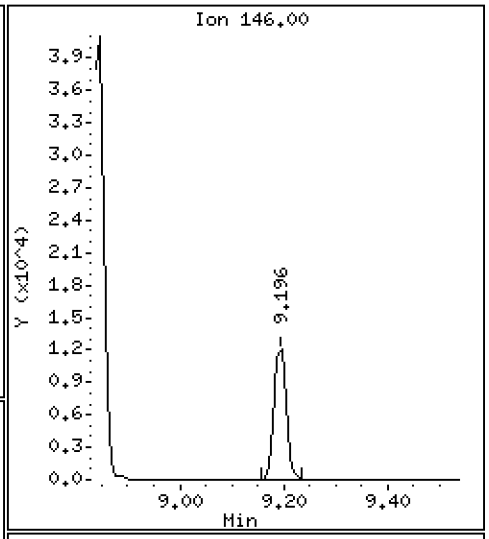
Concentration: 0.3893 ug/mL

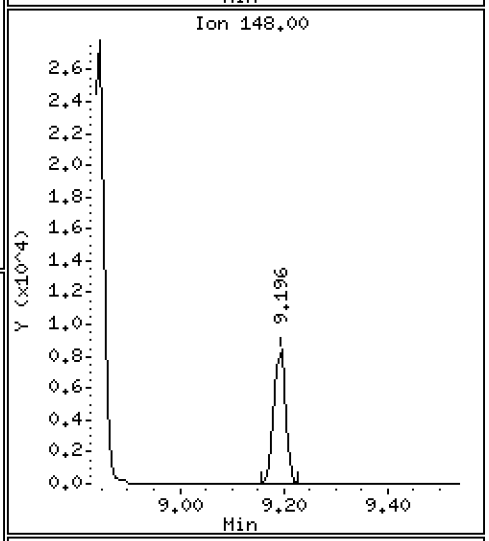


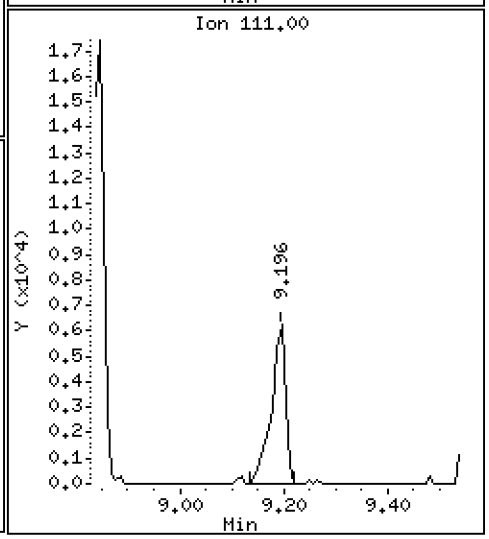












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

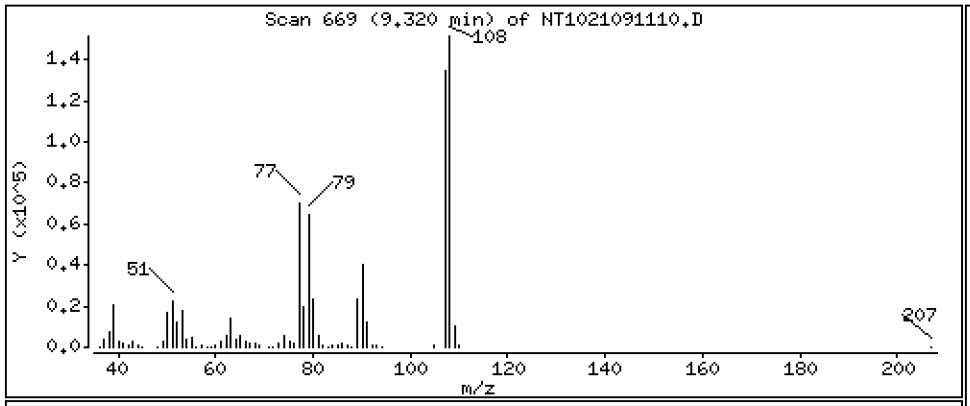
Operator: VTS

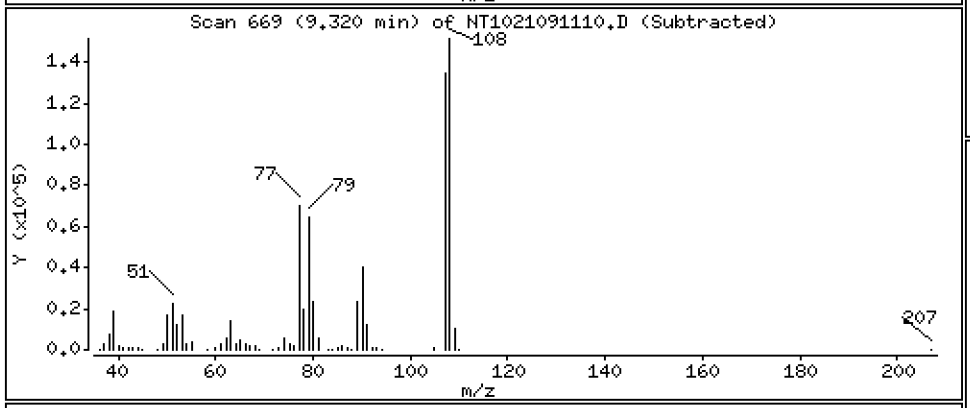
Column phase: ZB-5msi

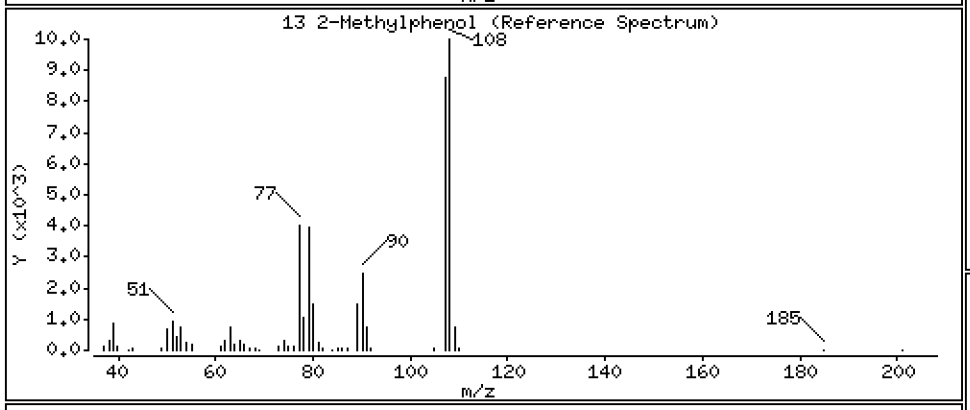
Column diameter: 0.25

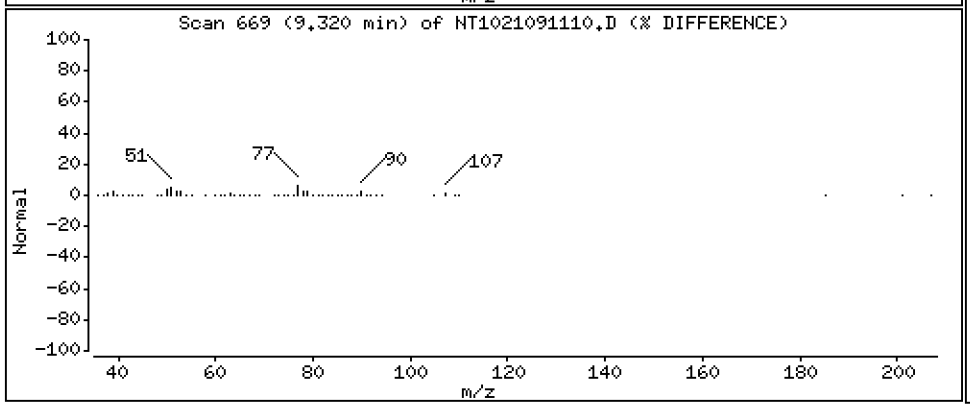
13 2-Methylphenol

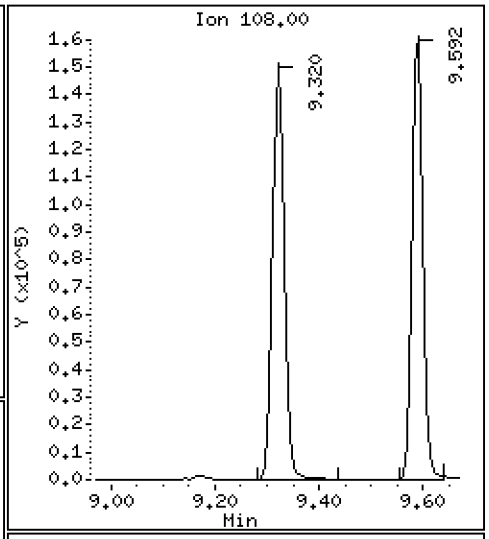
Concentration: 5.467 ug/mL

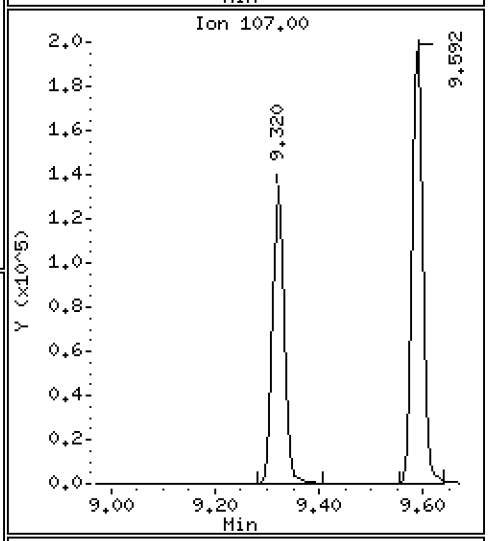


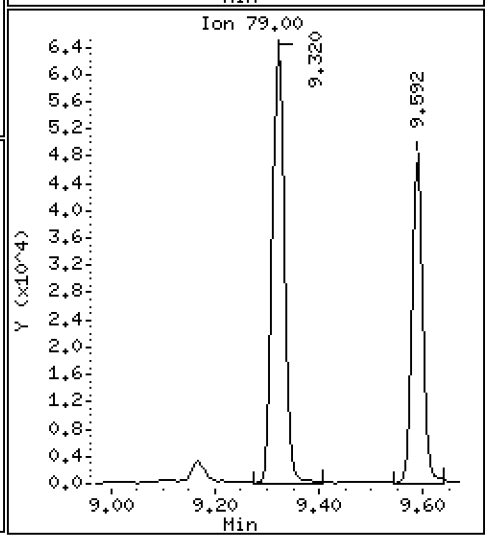












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

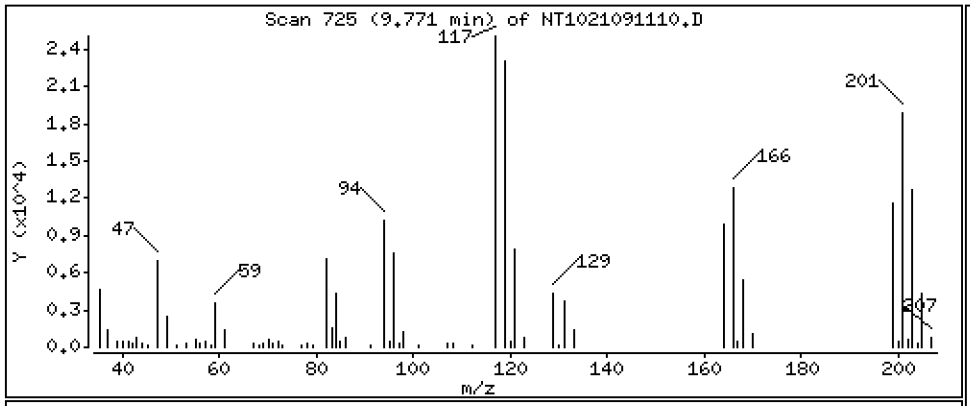
Operator: VTS

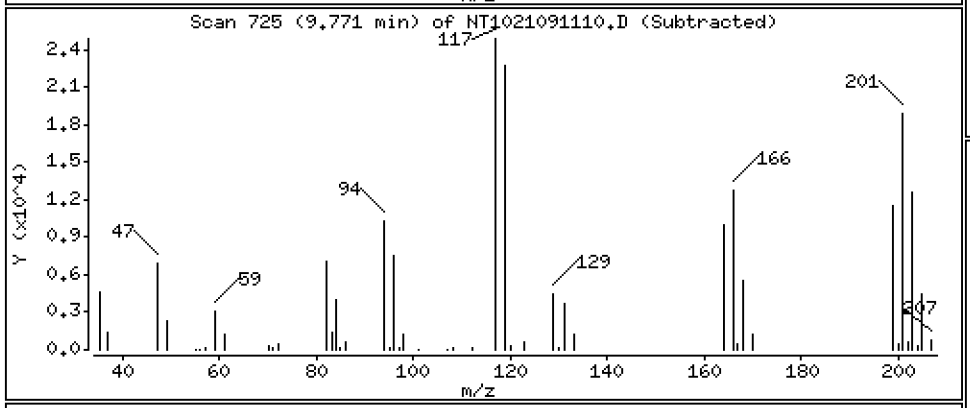
Column phase: ZB-5msi

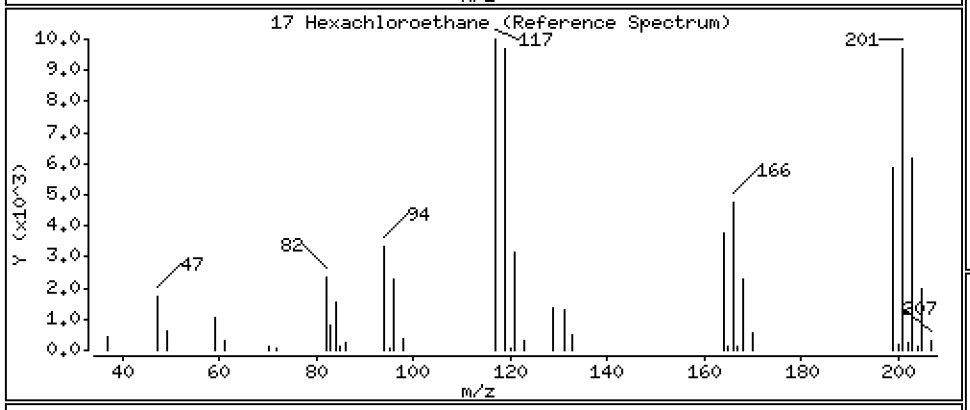
Column diameter: 0.25

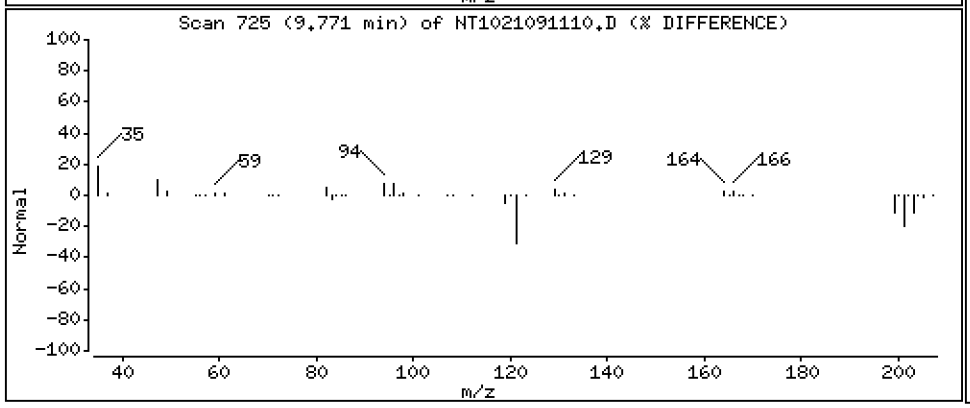
17 Hexachloroethane

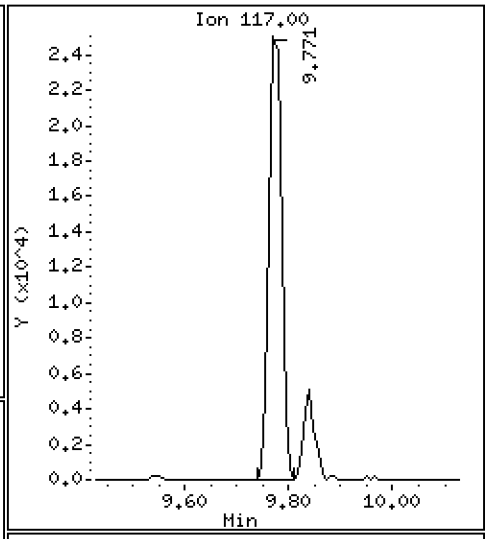
Concentration: 2.211 ug/mL

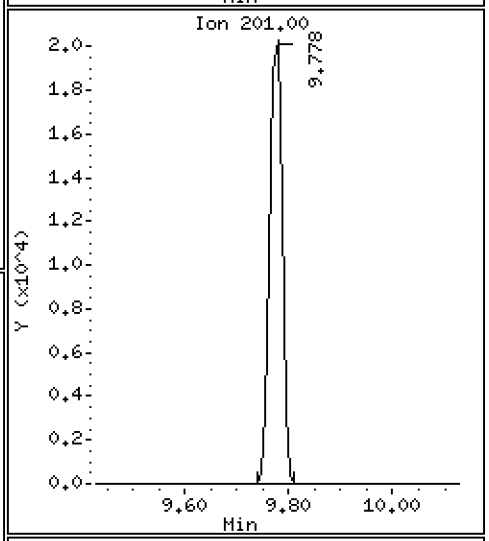


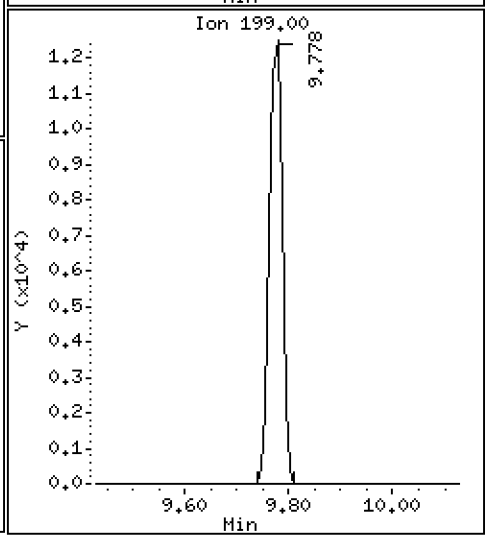












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

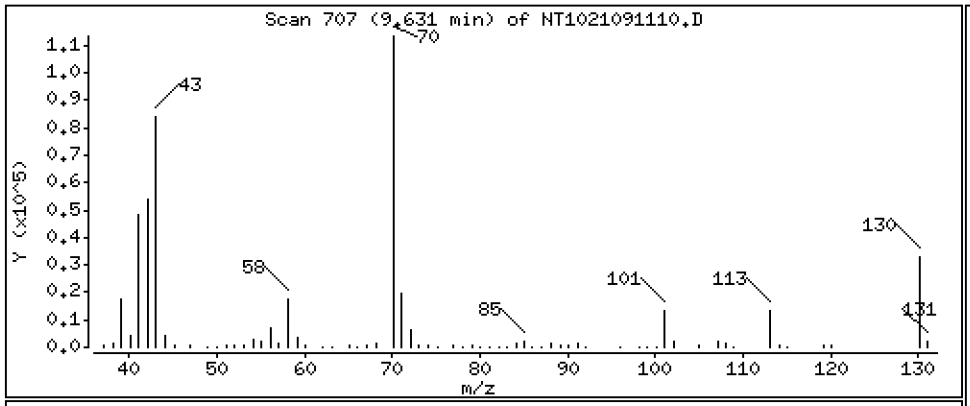
Operator: VTS

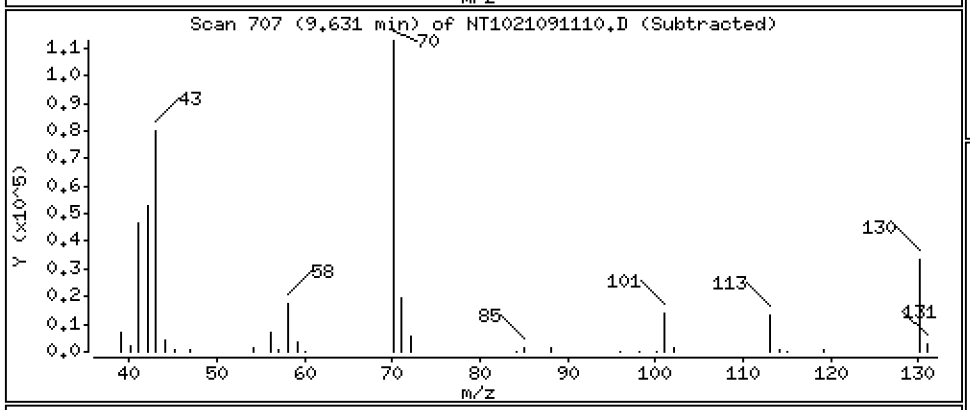
Column phase: ZB-5msi

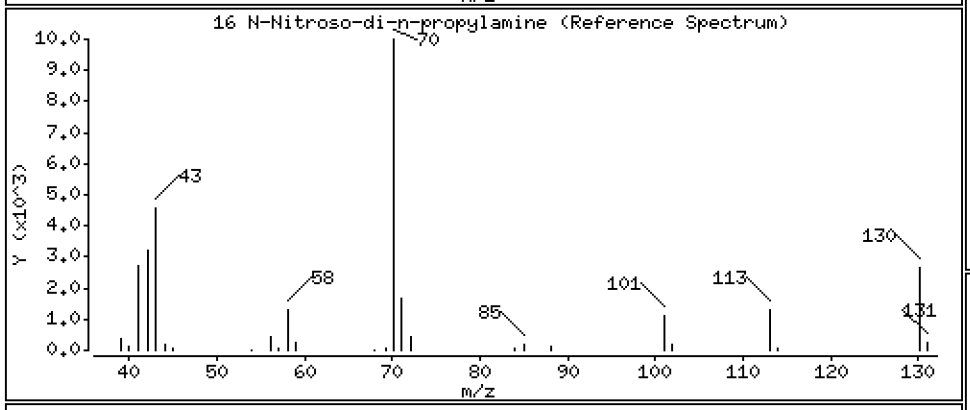
Column diameter: 0.25

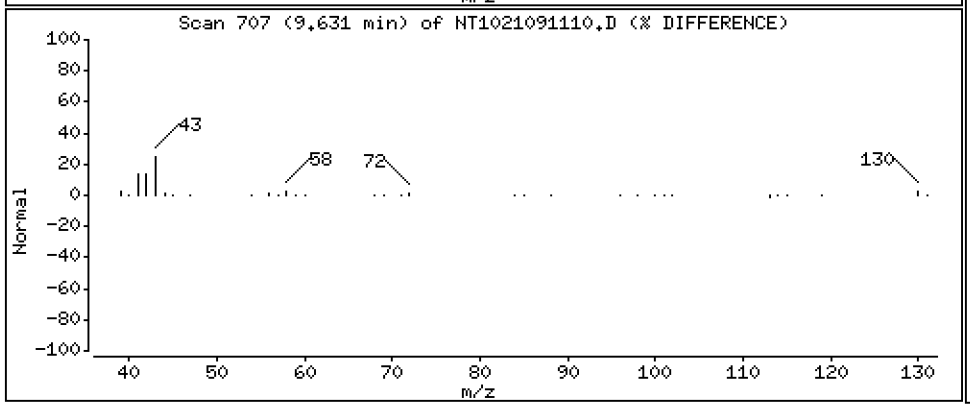
16 N-Nitroso-di-n-propylamine

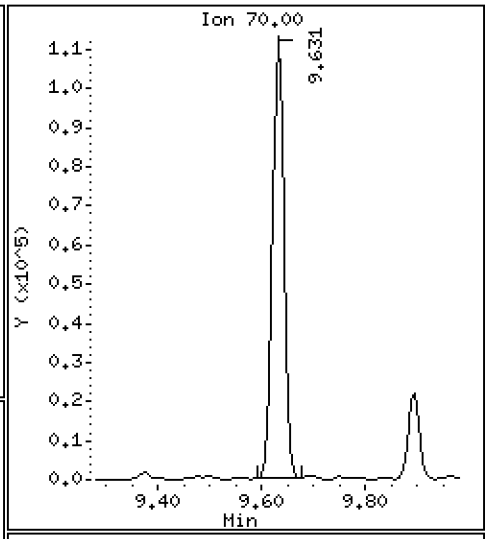
Concentration: 5.651 ug/mL

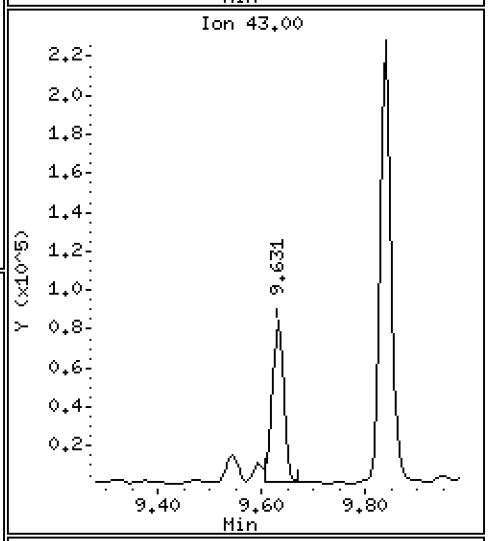


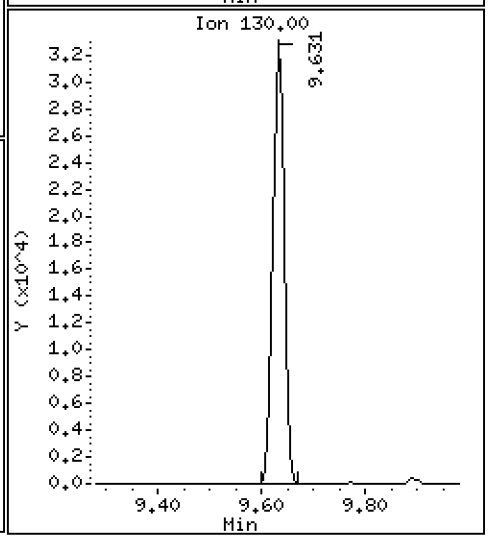












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

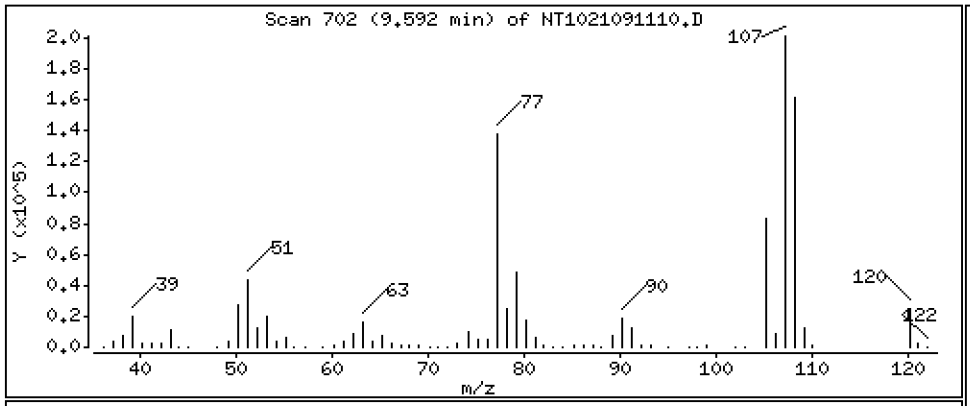
Operator: VTS

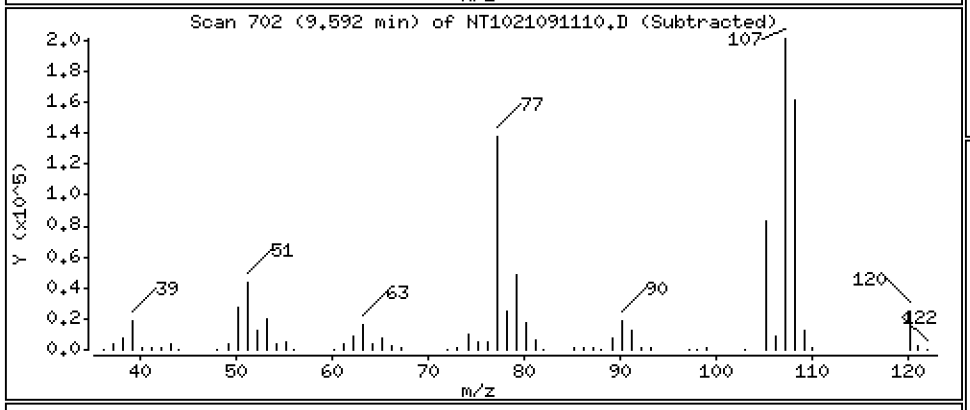
Column phase: ZB-5msi

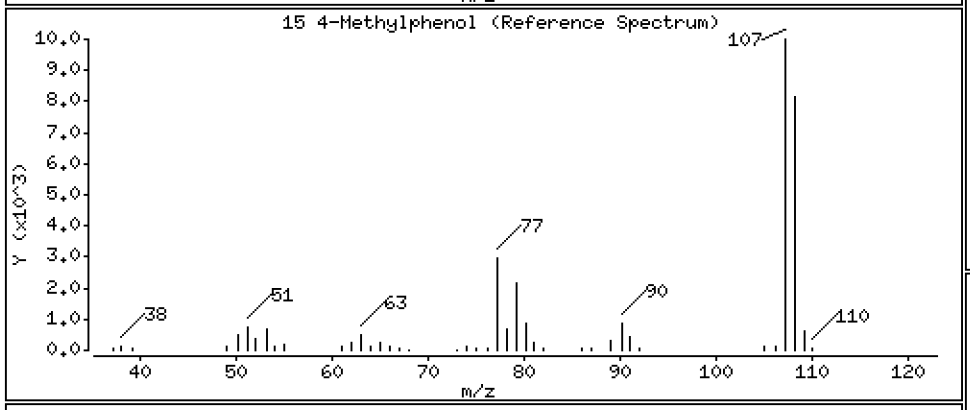
Column diameter: 0.25

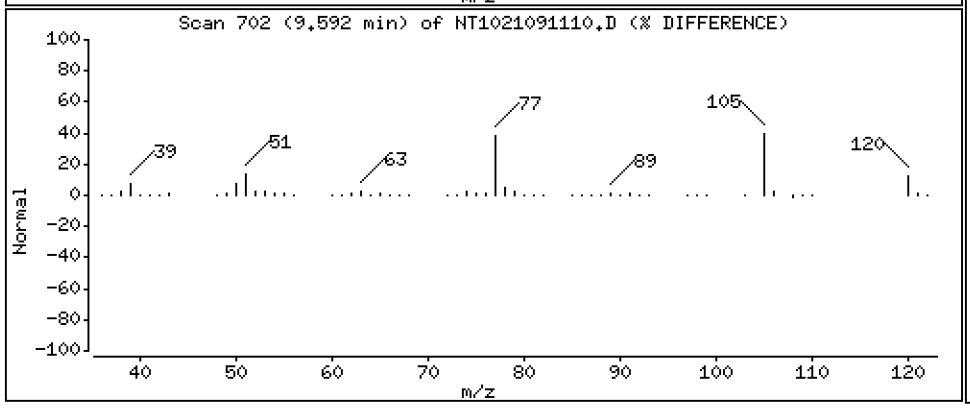
15 4-Methylphenol

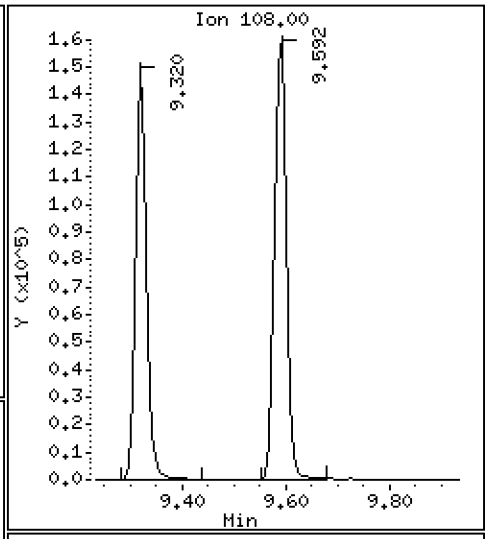
Concentration: 5.590 ug/mL

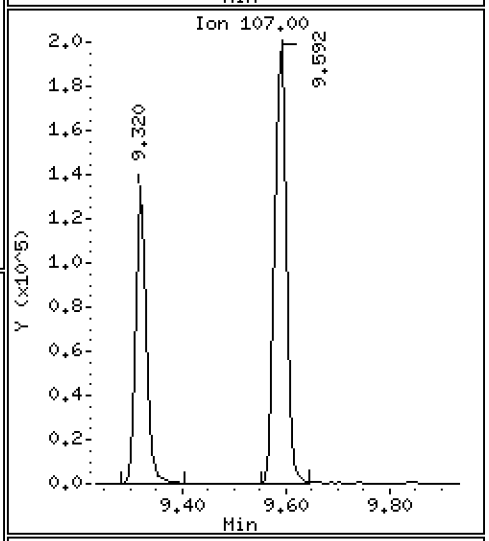


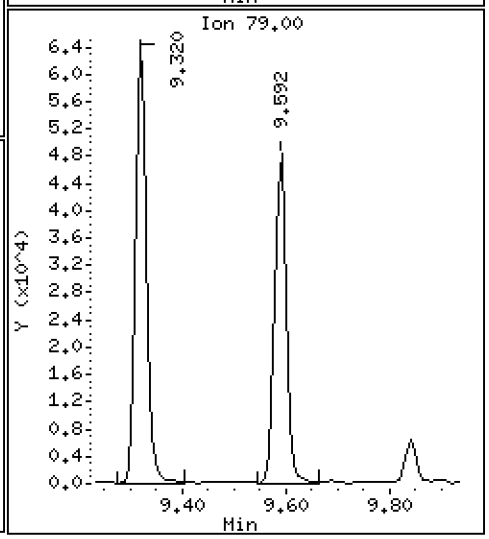












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

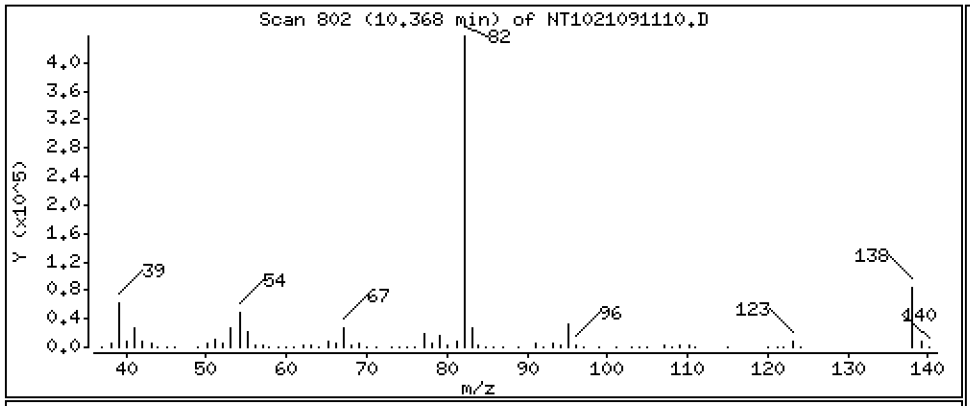
Operator: VTS

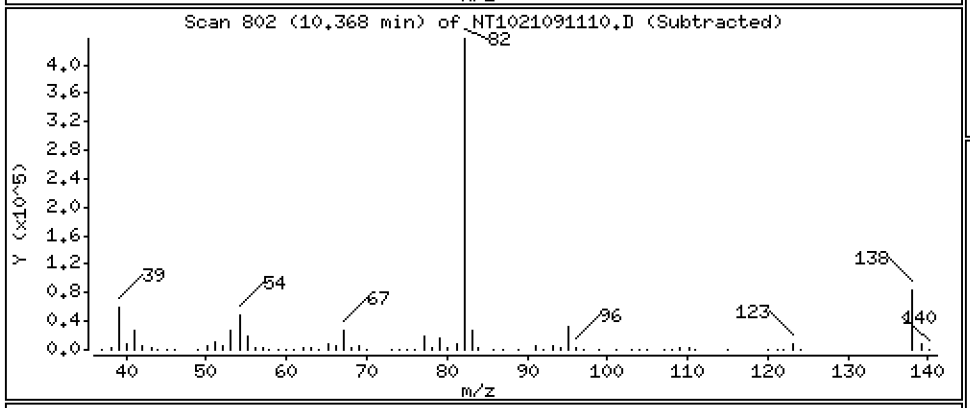
Column phase: ZB-5msi

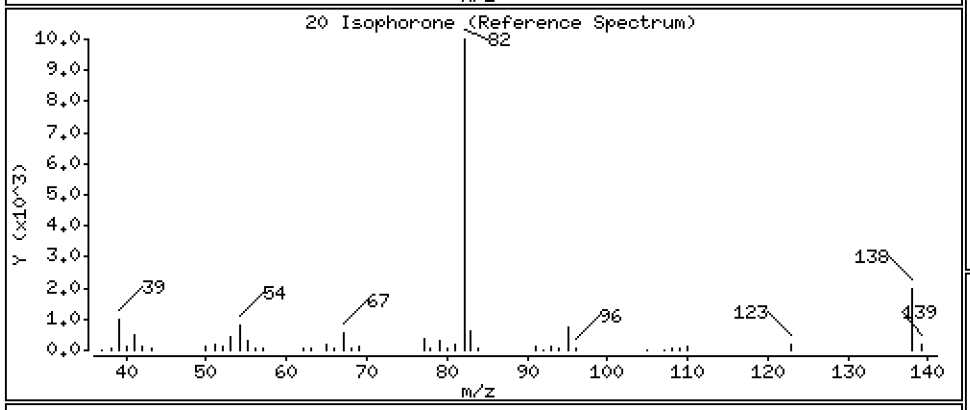
Column diameter: 0.25

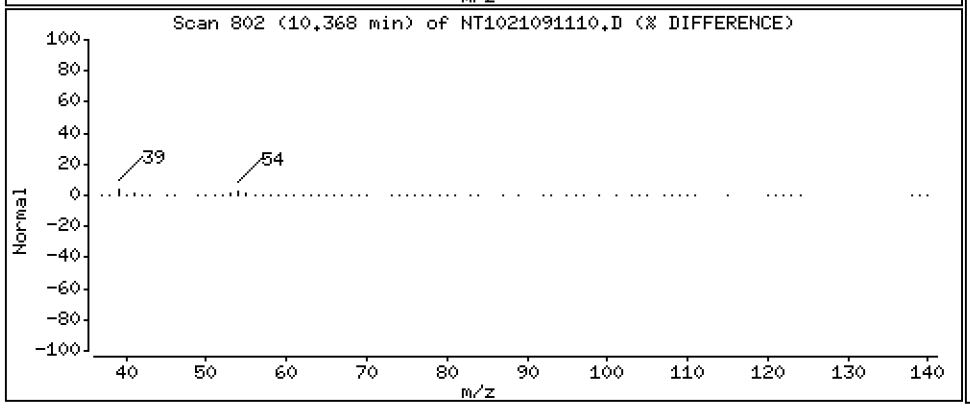
20 Isophorone

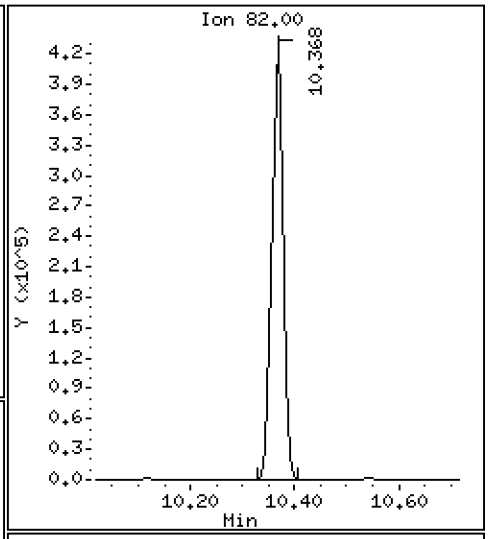
Concentration: 9.392 ug/mL

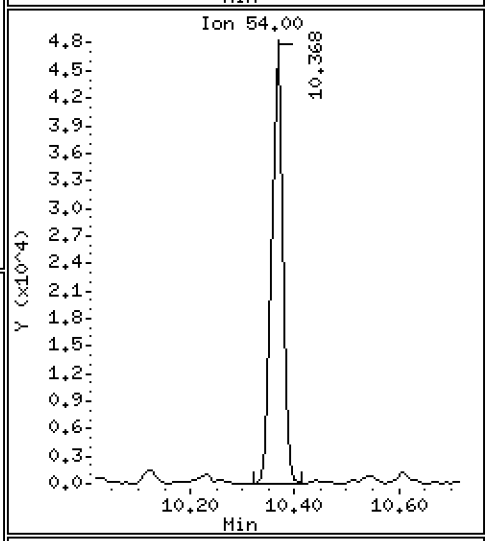


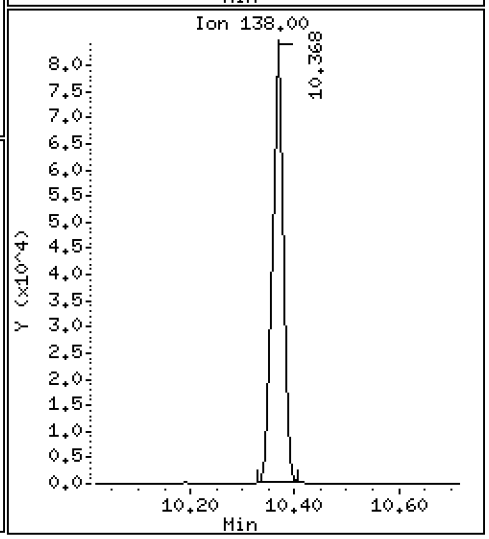












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

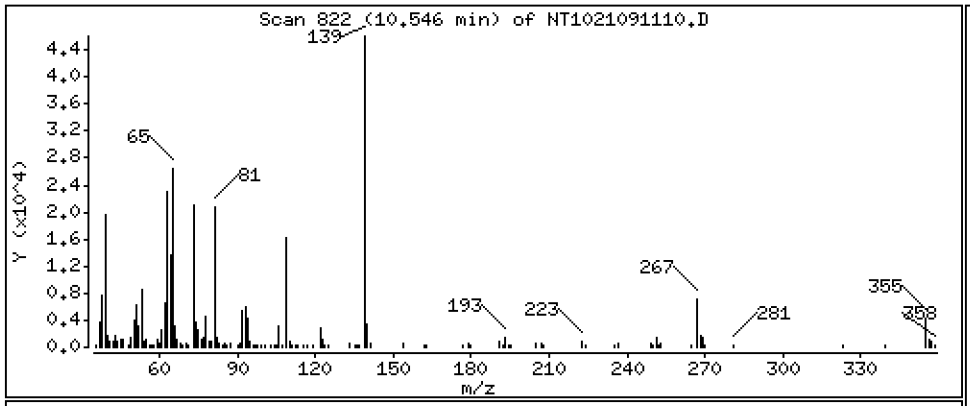
Operator: VTS

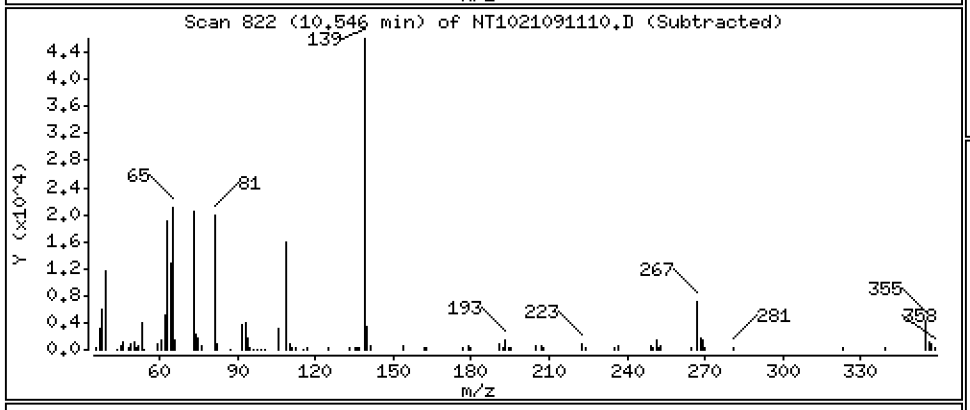
Column phase: ZB-5msi

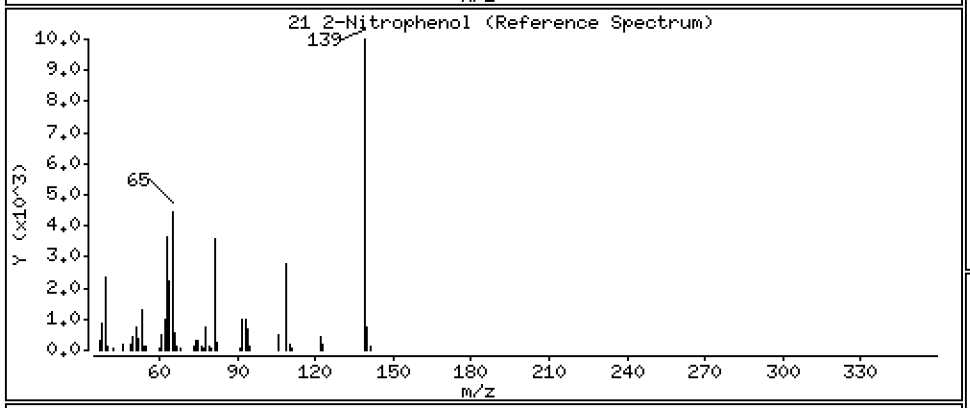
Column diameter: 0.25

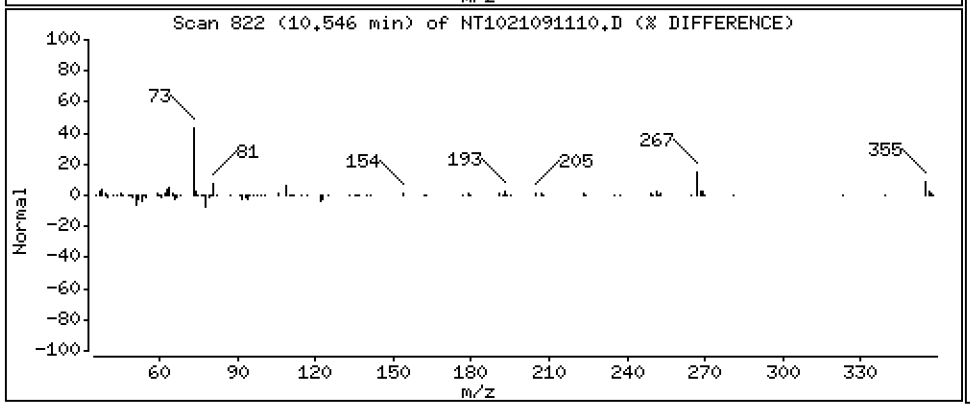
21 2-Nitrophenol

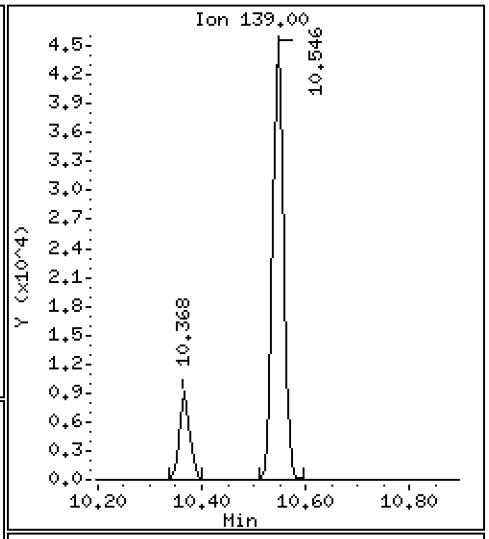
Concentration: 2.676 ug/mL

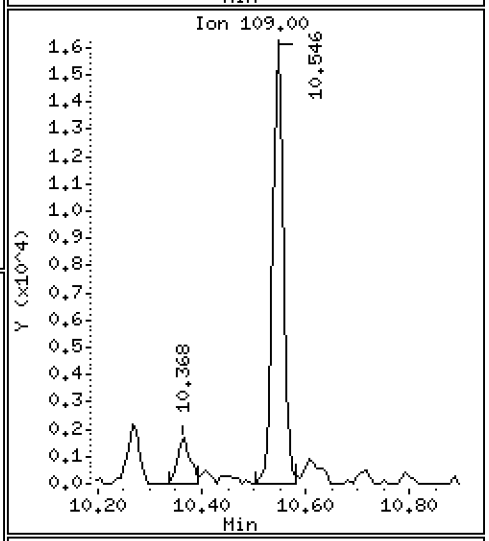


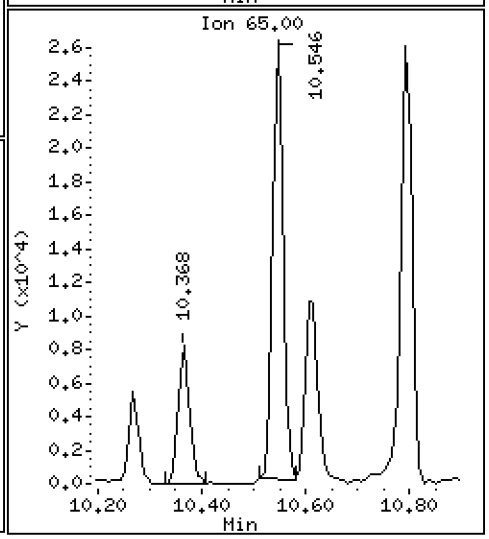












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

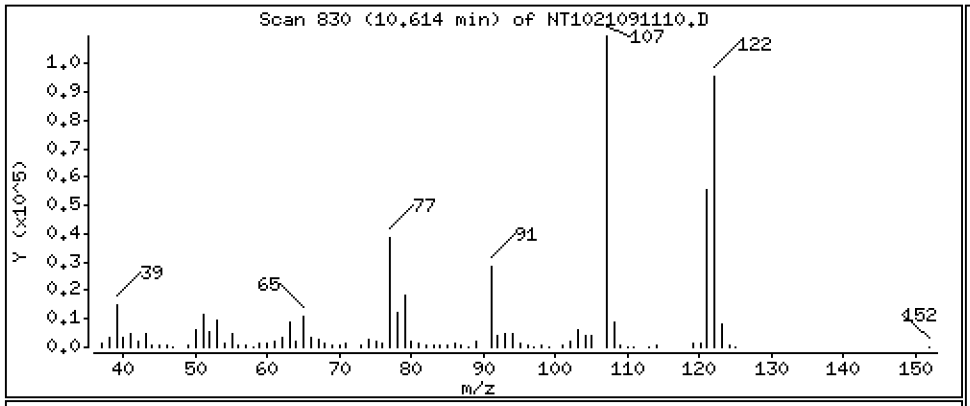
Operator: VTS

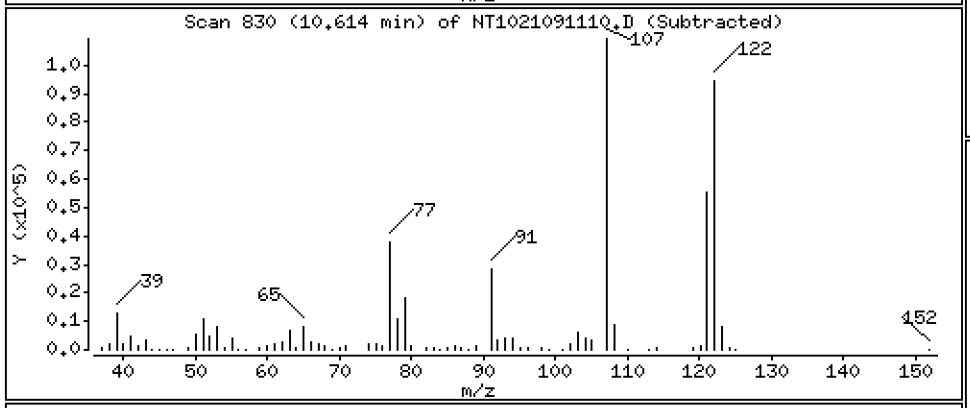
Column phase: ZB-5msi

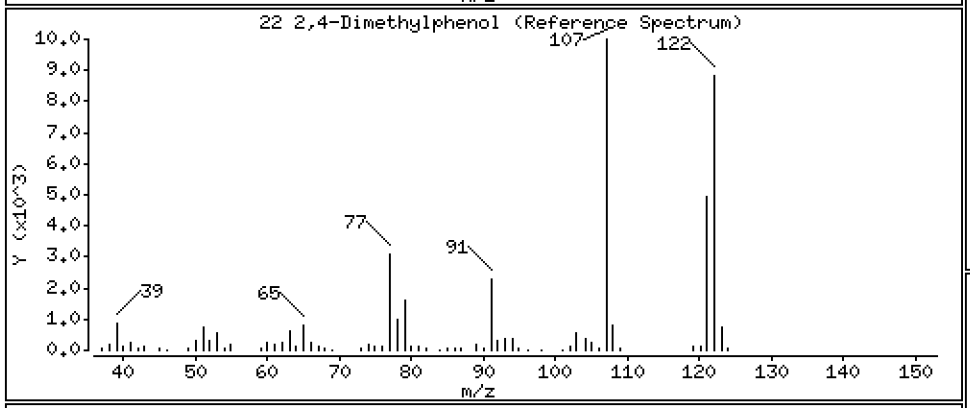
Column diameter: 0.25

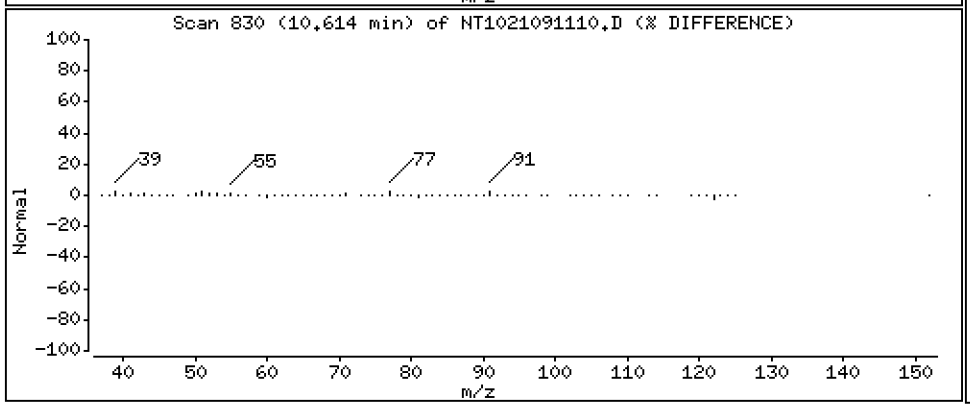
22 2,4-Dimethylphenol

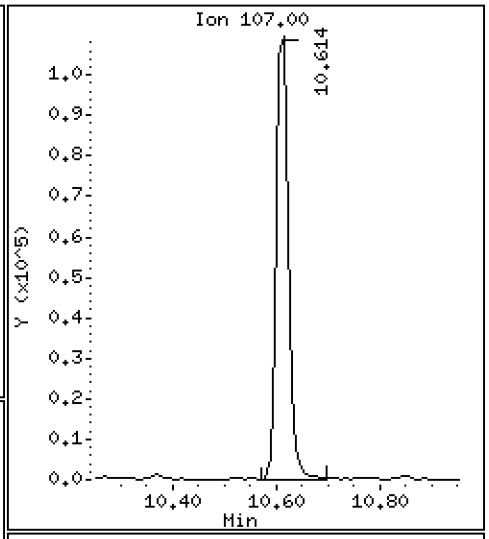
Concentration: 4.748 ug/mL

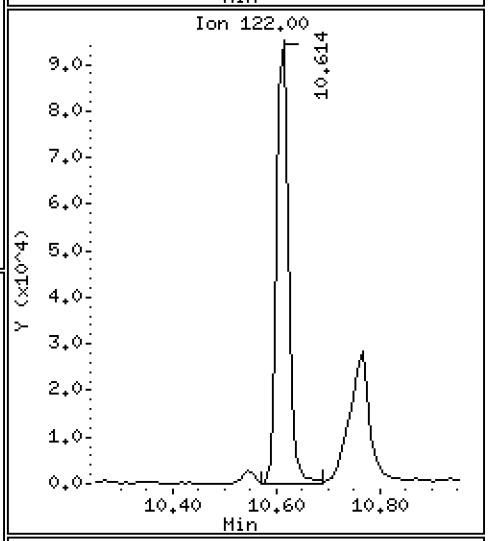


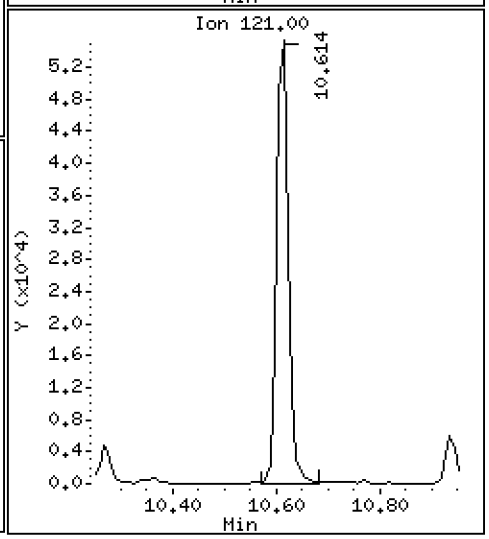












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

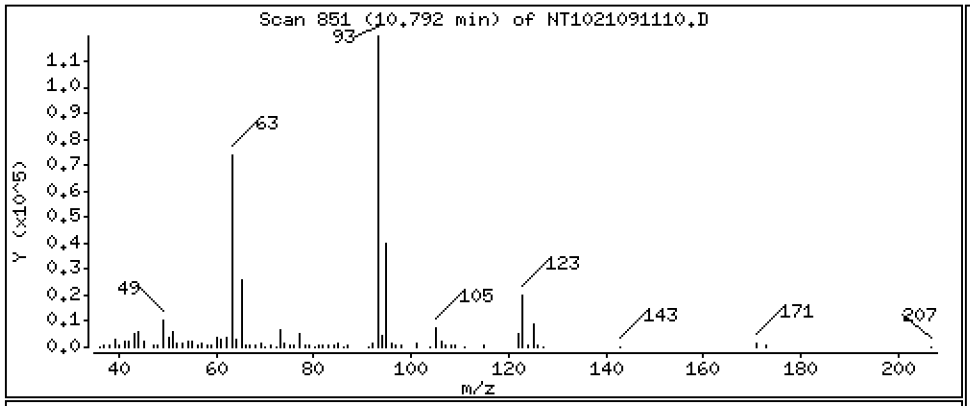
Operator: VTS

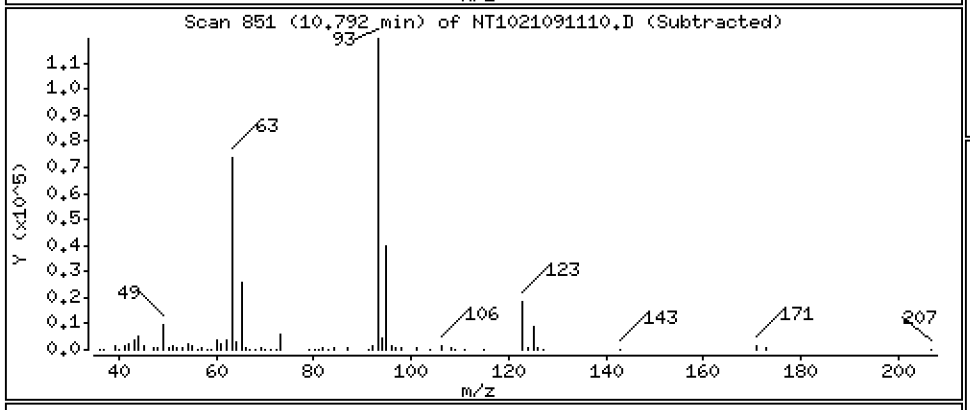
Column phase: ZB-5msi

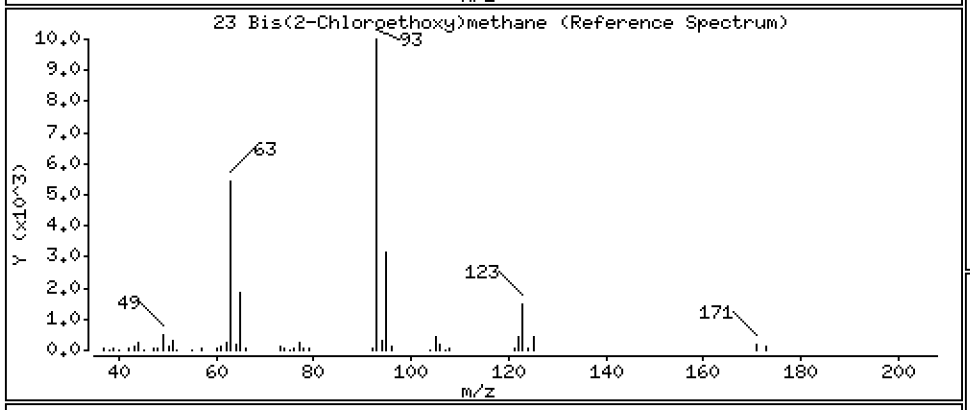
Column diameter: 0.25

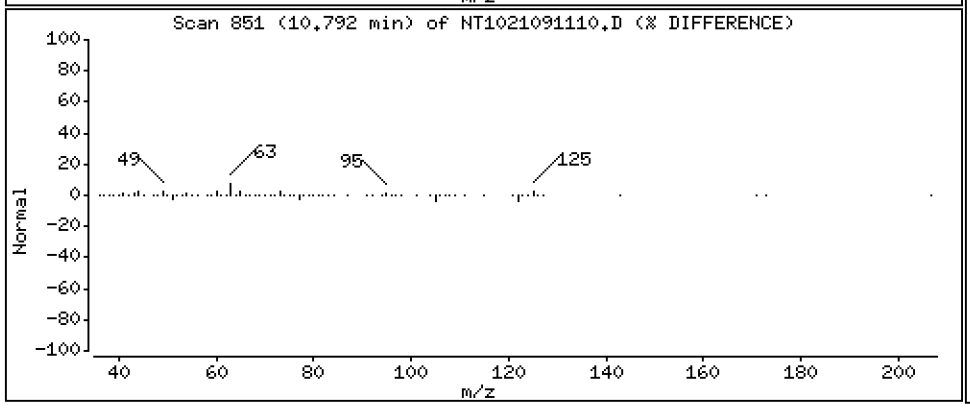
23 Bis(2-Chloroethoxy)methane

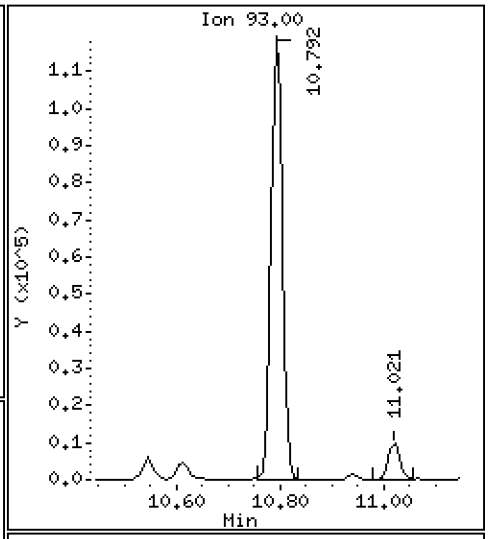
Concentration: 4.522 ug/mL

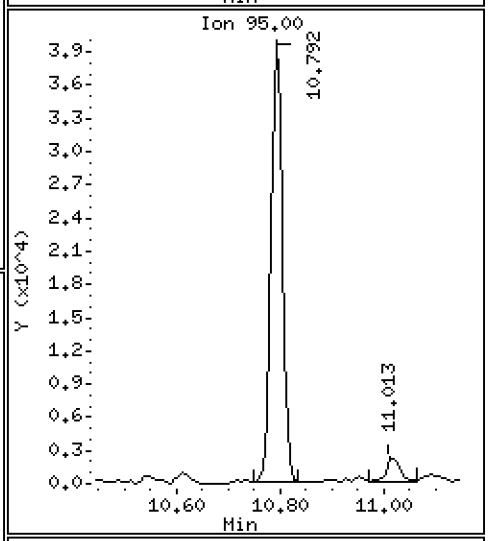


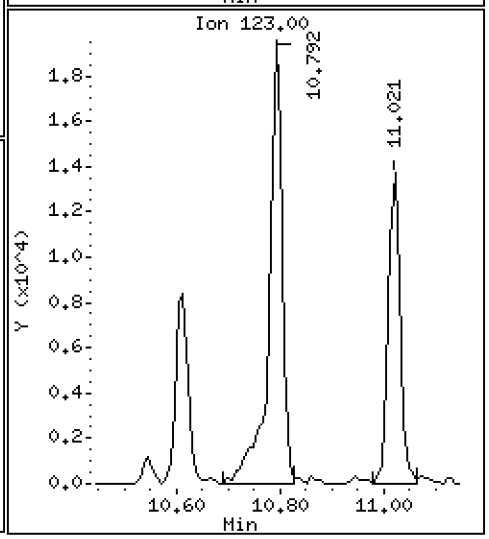












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

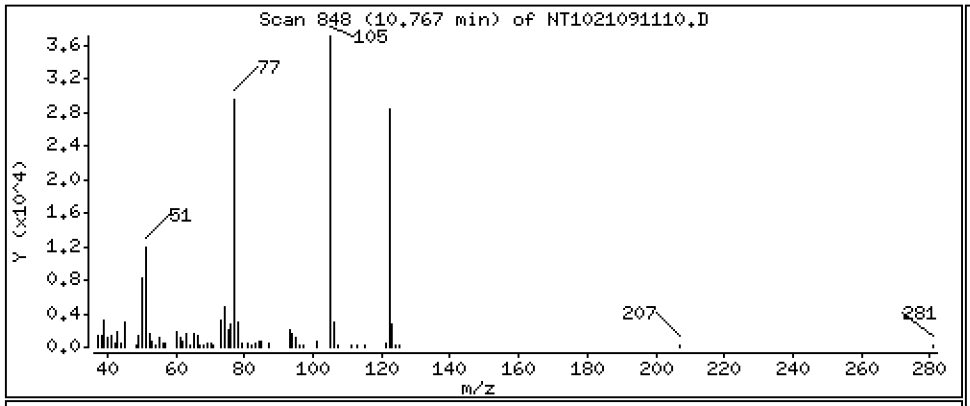
Operator: VTS

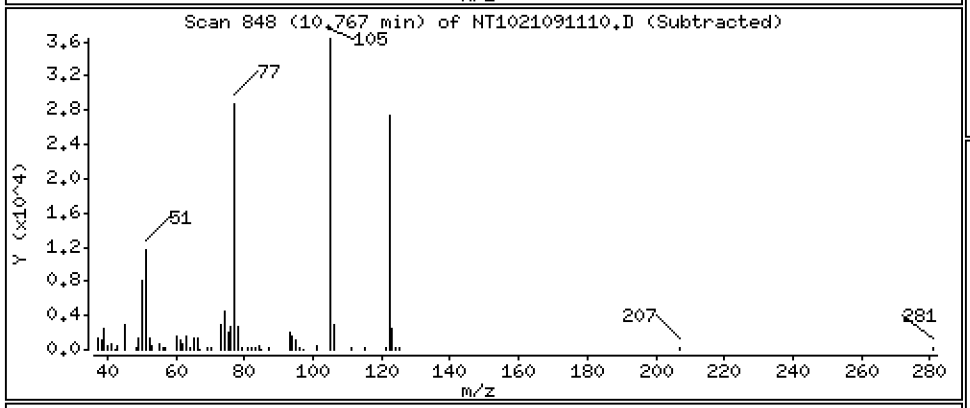
Column phase: ZB-5msi

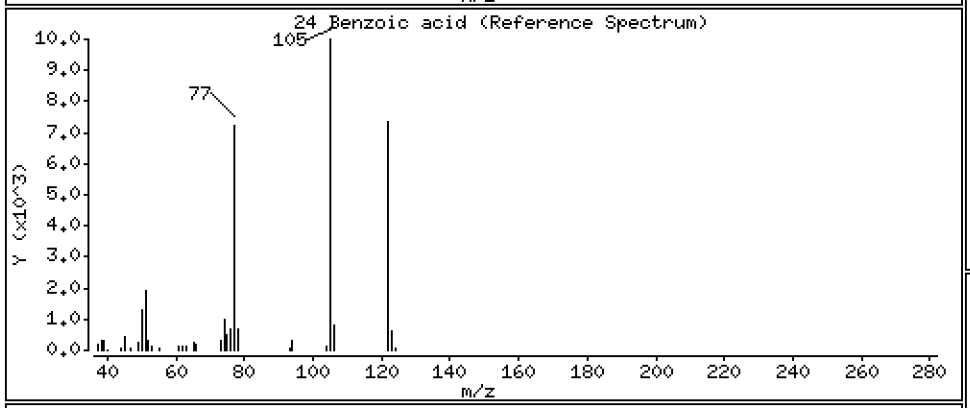
Column diameter: 0.25

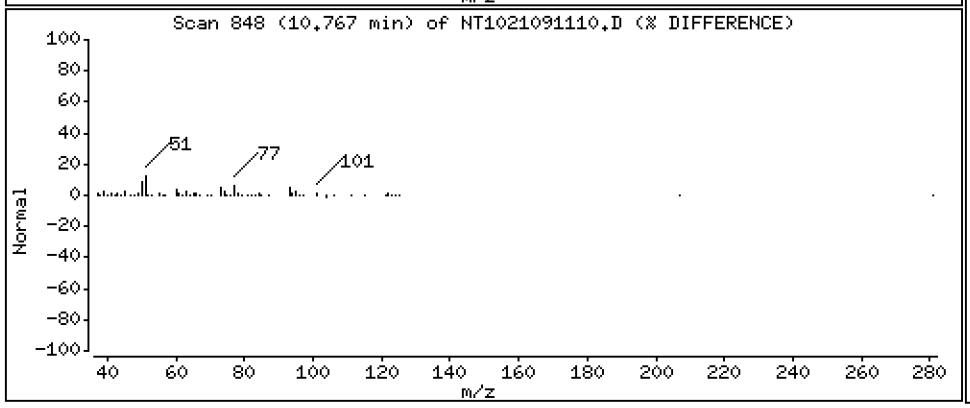
24 Benzoic acid

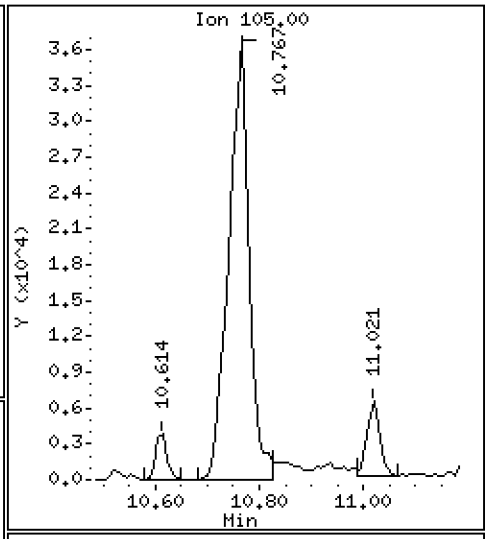
Concentration: 5.185 ug/mL

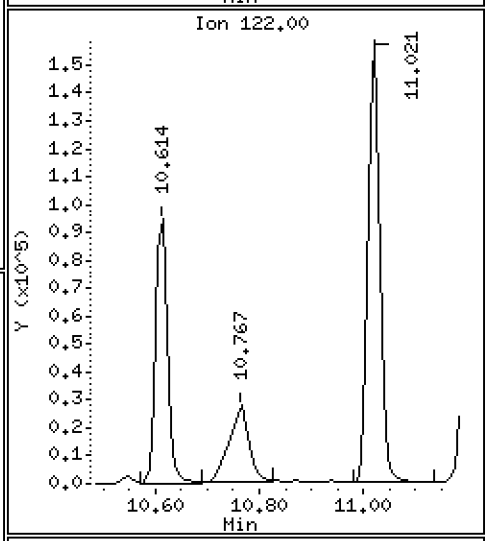


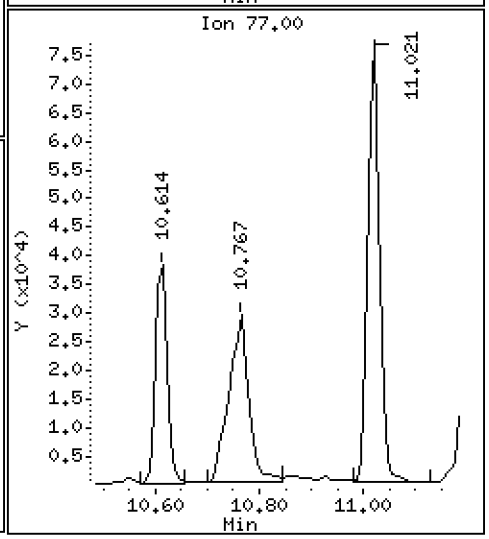












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

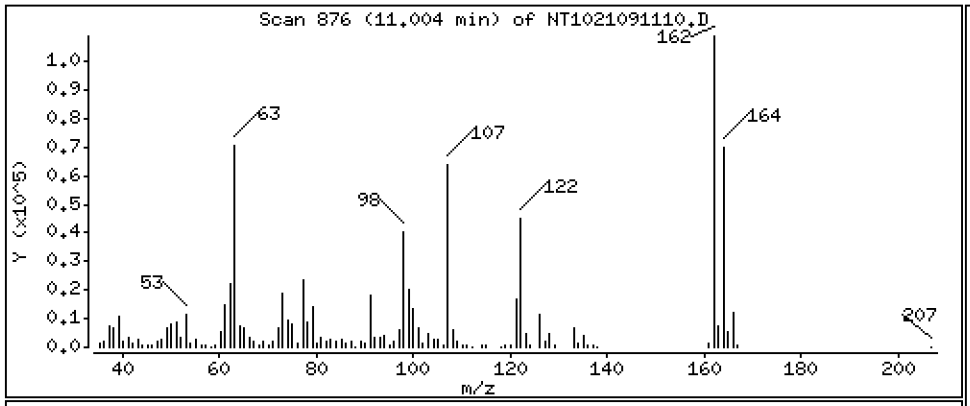
Operator: VTS

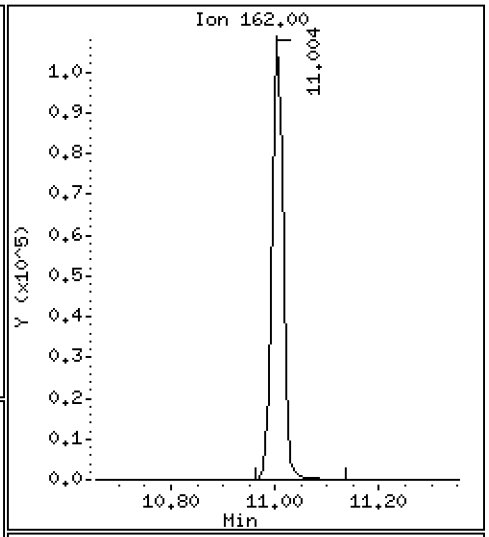
Column phase: ZB-5msi

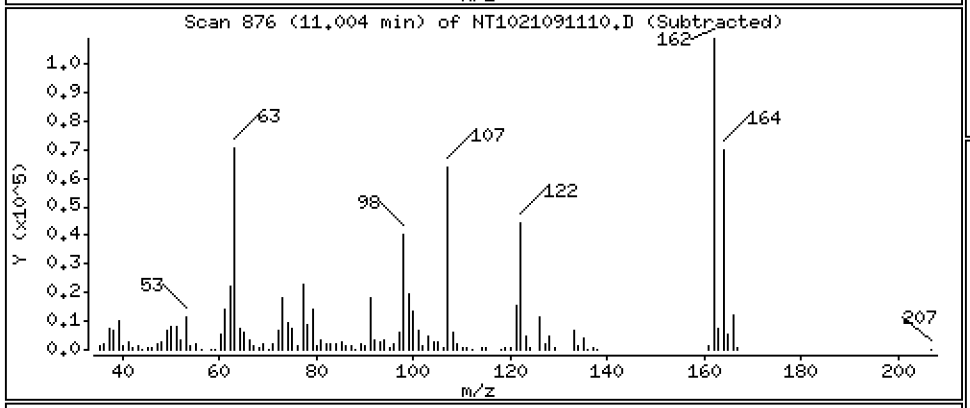
Column diameter: 0.25

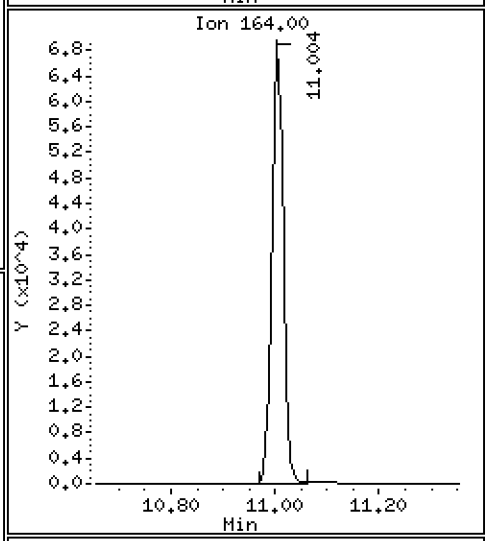
25 2,4-Dichlorophenol

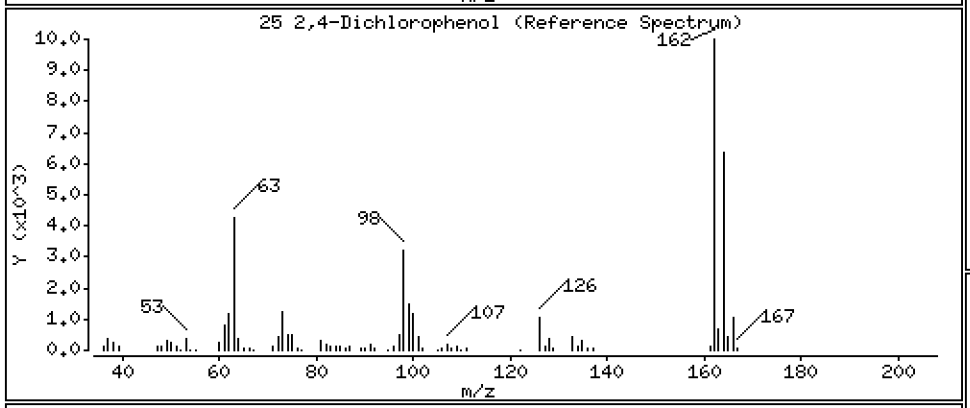
Concentration: 4.501 ug/mL

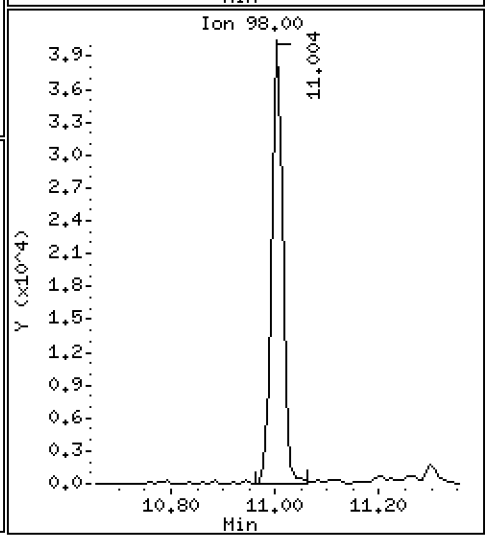


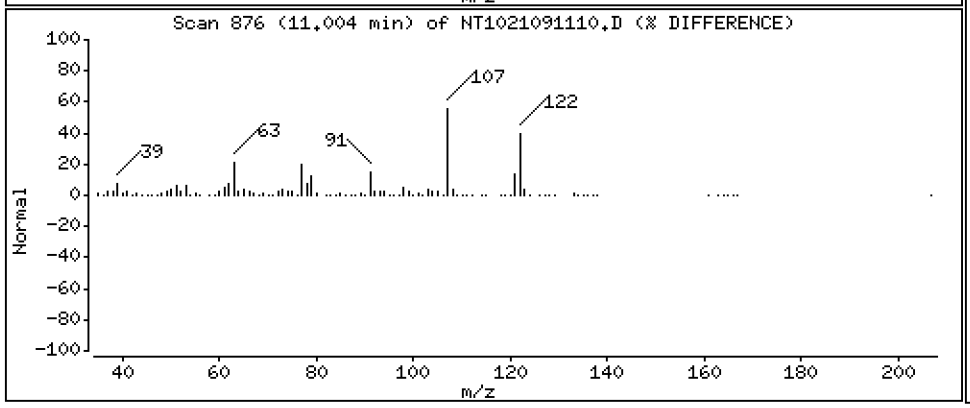












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Date : 11-SEP-2021 16:11

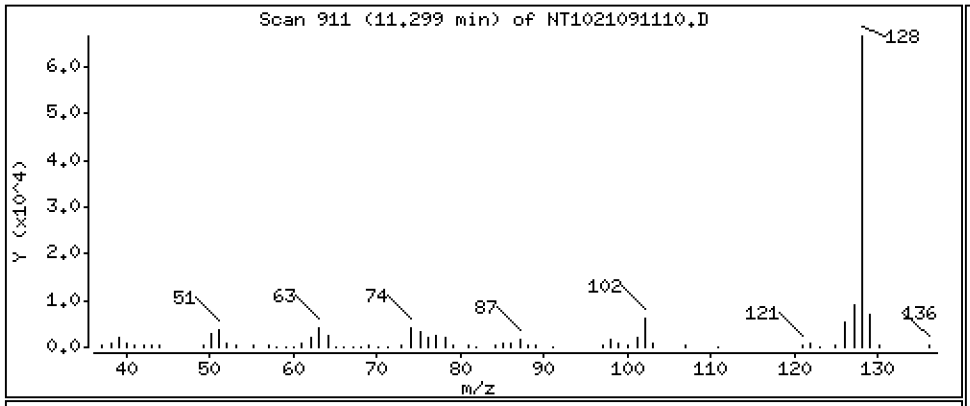
Client ID: Instrument: nt10.i

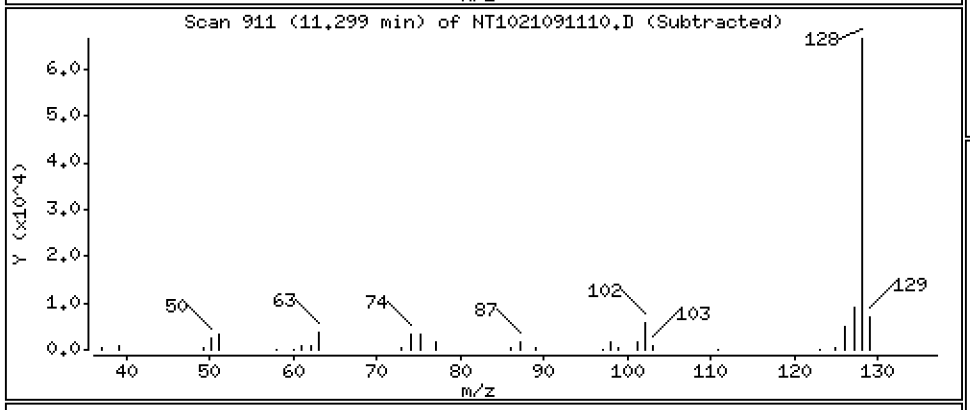
Sample Info: BJH0655-SRM1

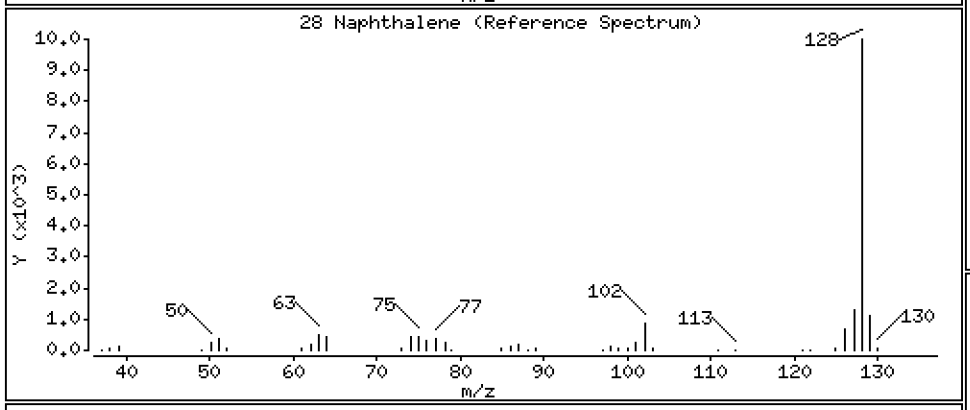
Operator: VTS

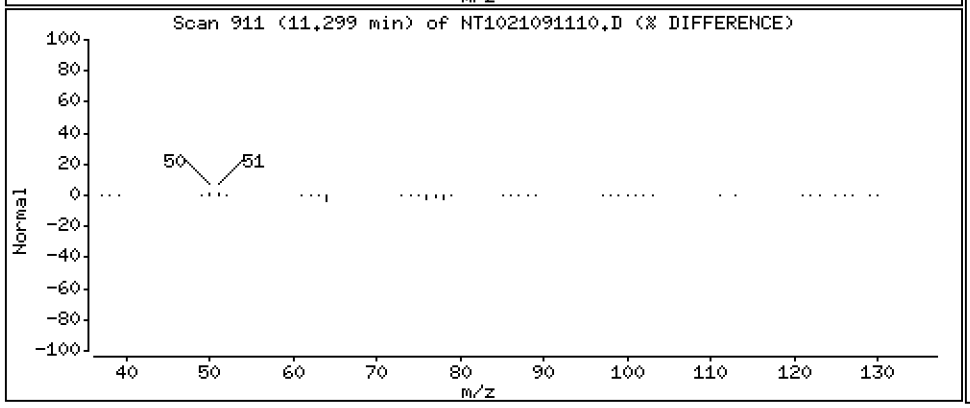
Column phase: ZB-5msi Column diameter: 0.25

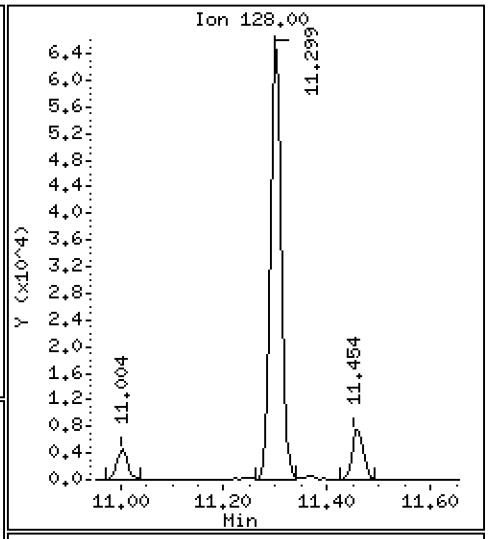
28 Naphthalene Concentration: 0.8871 ug/mL

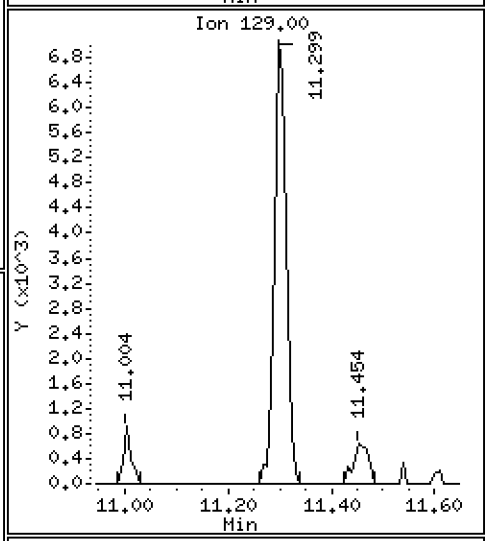


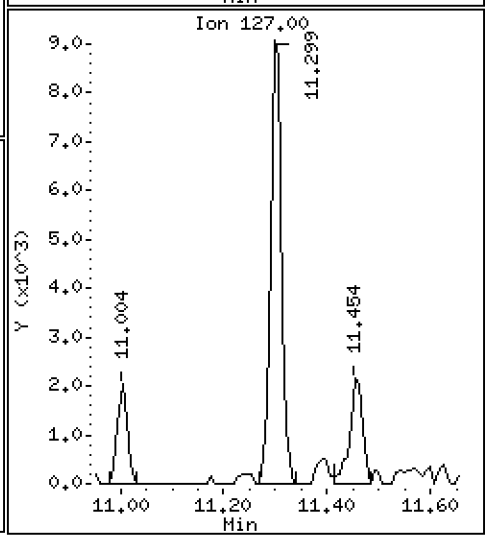












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

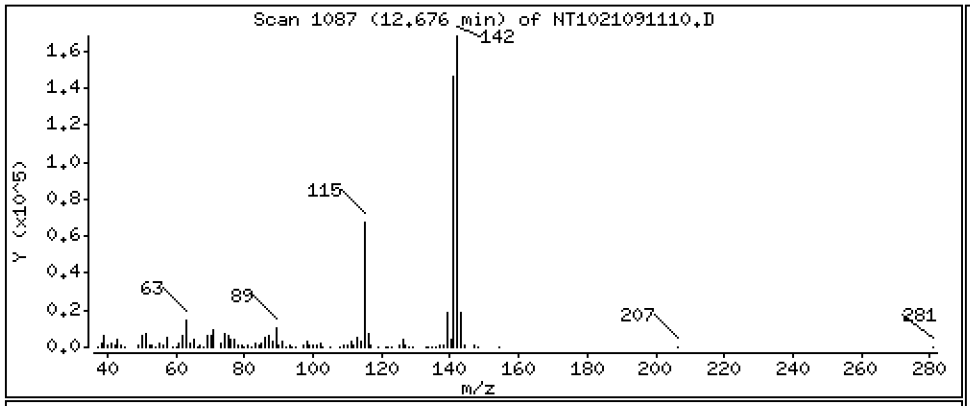
Operator: VTS

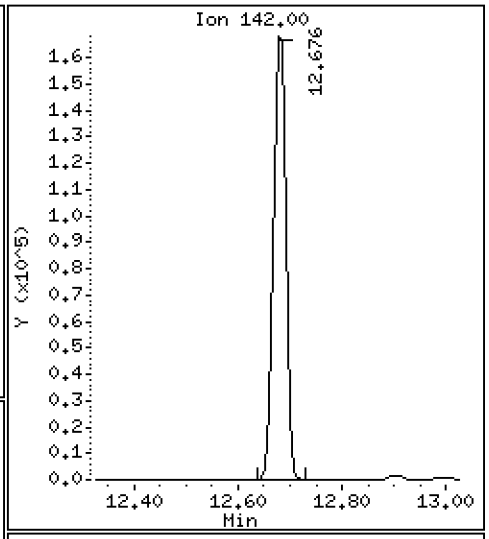
Column phase: ZB-5msi

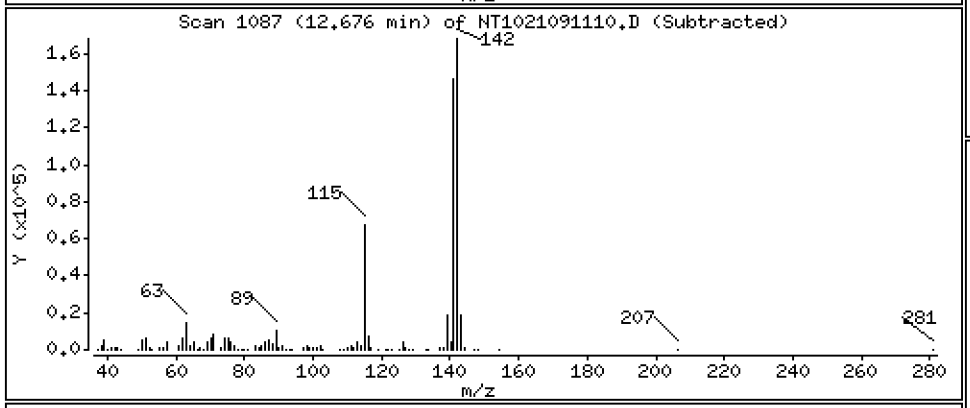
Column diameter: 0.25

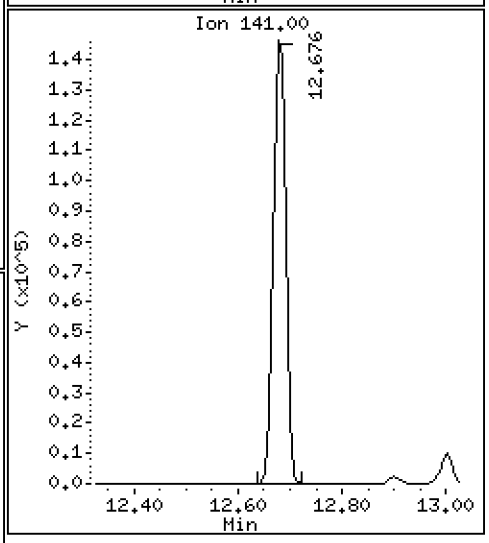
32 2-Methylnaphthalene

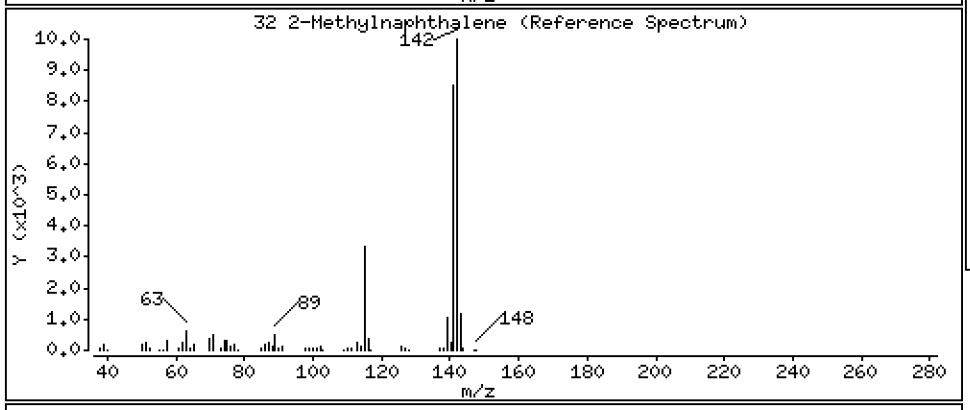
Concentration: 2.524 ug/mL

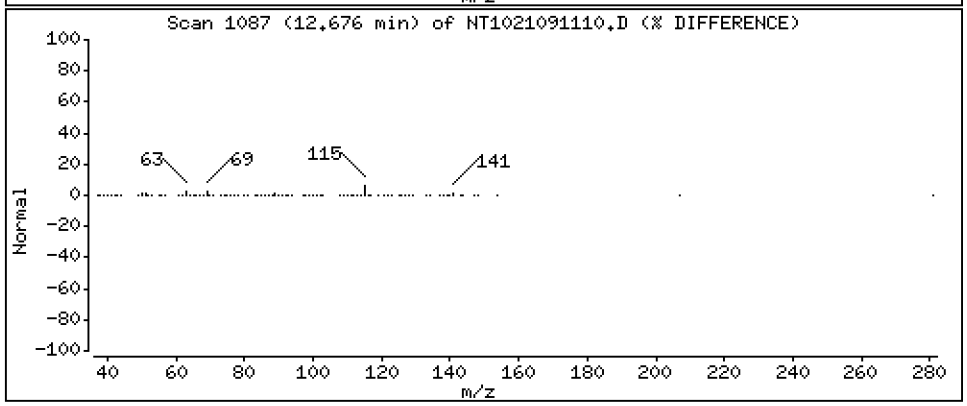












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

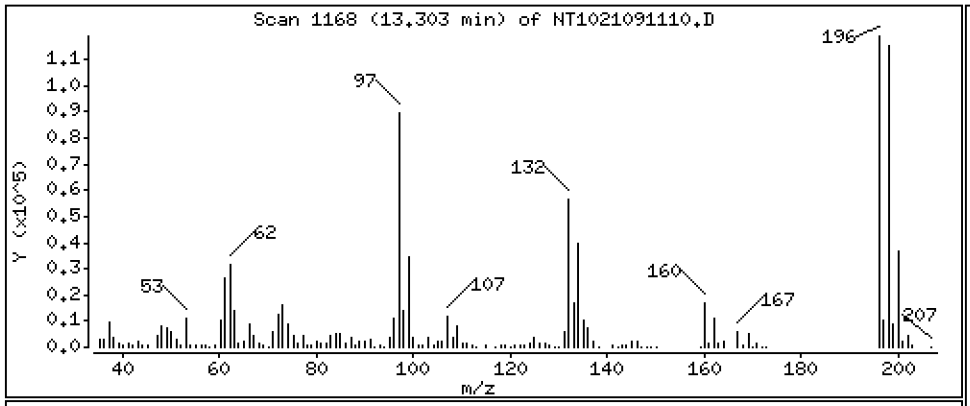
Operator: VTS

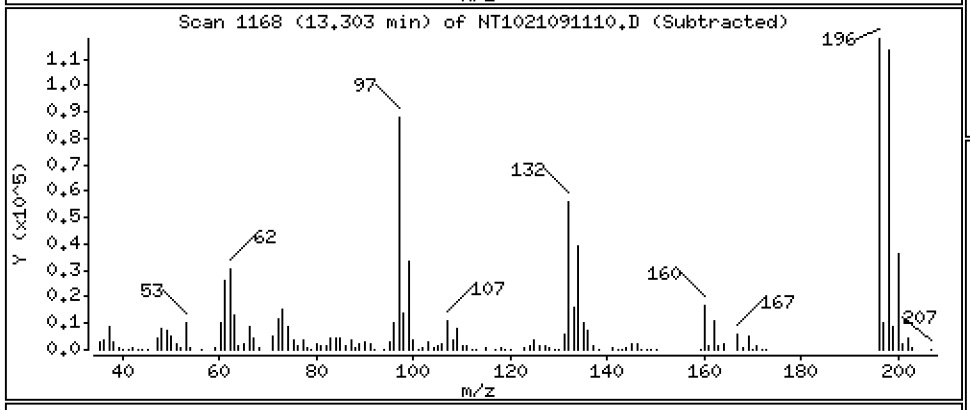
Column phase: ZB-5msi

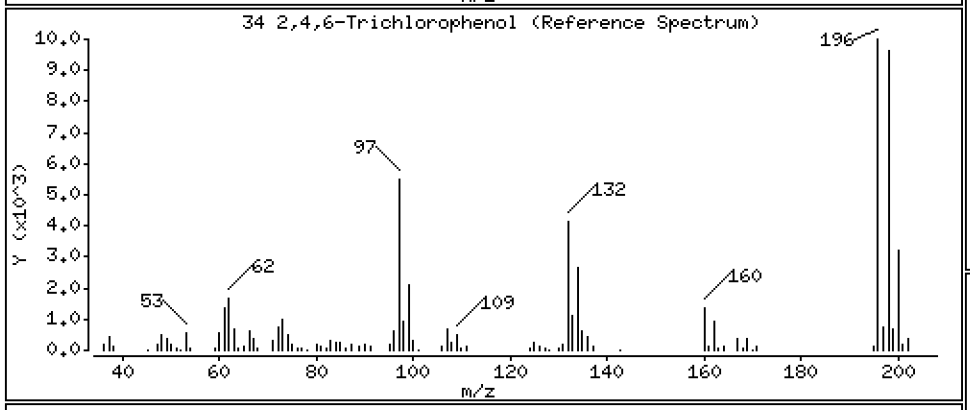
Column diameter: 0.25

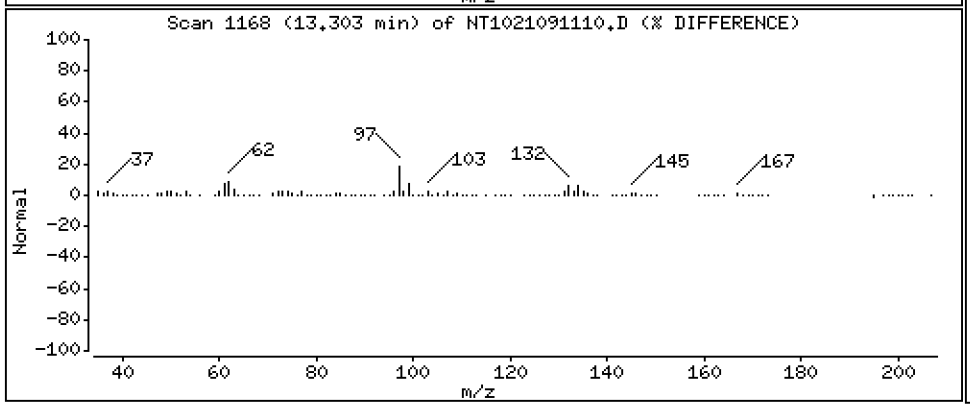
34 2,4,6-Trichlorophenol

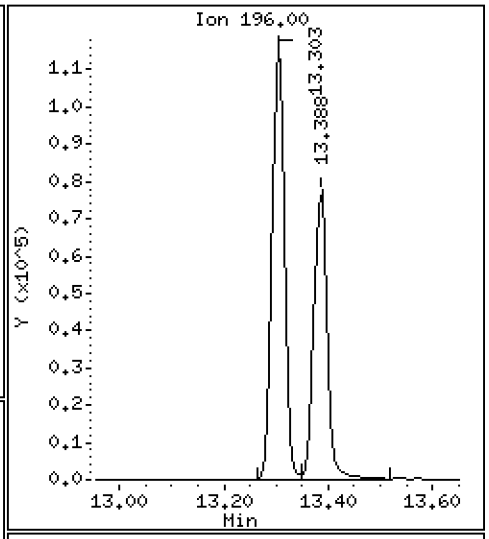
Concentration: 6.246 ug/mL

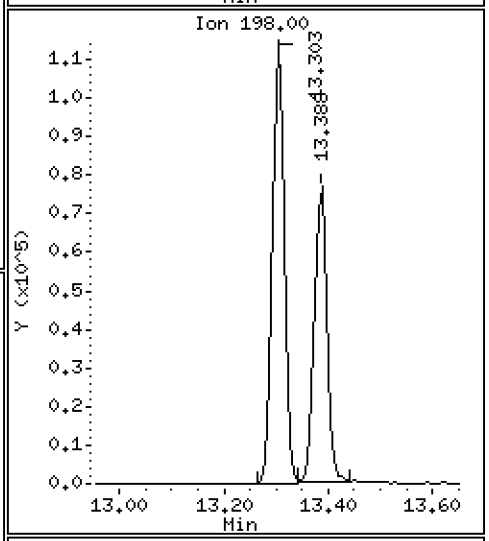


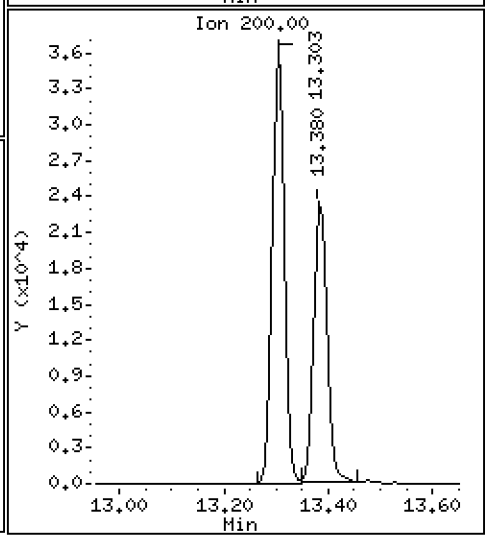












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

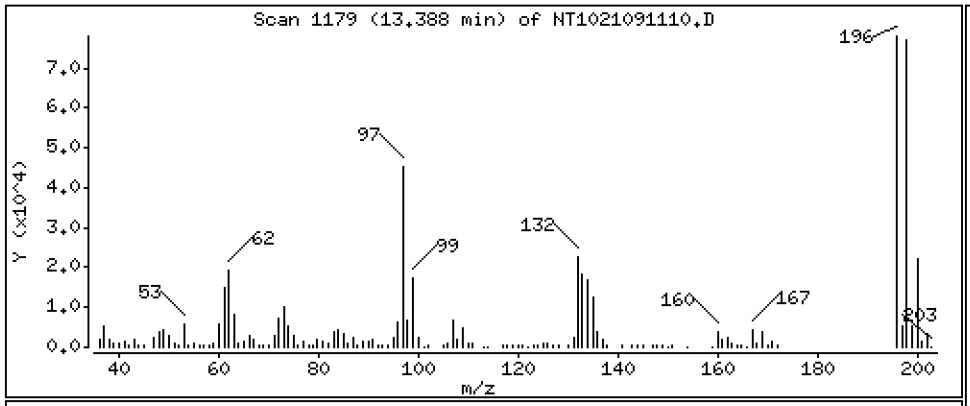
Operator: VTS

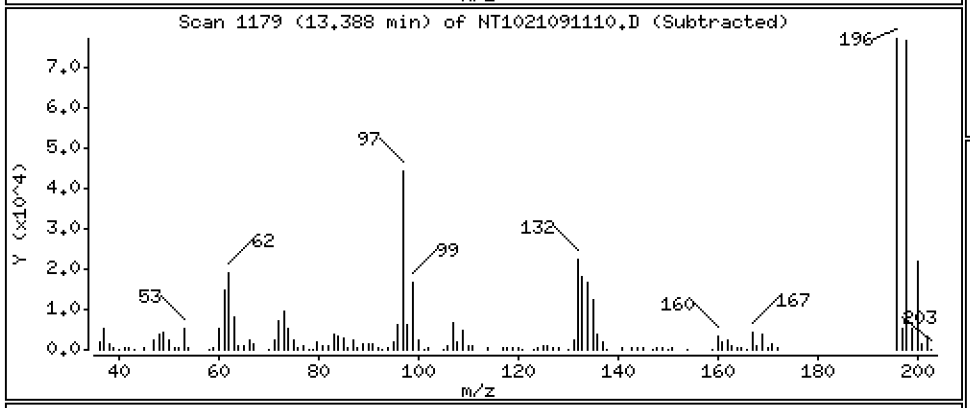
Column phase: ZB-5msi

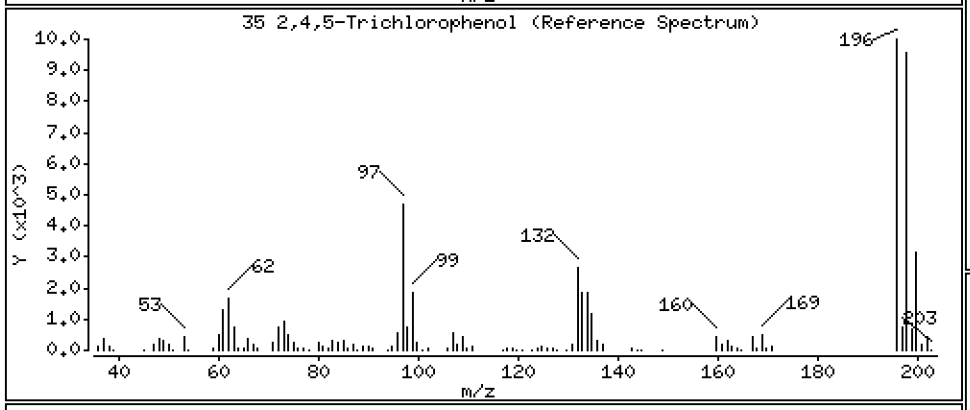
Column diameter: 0.25

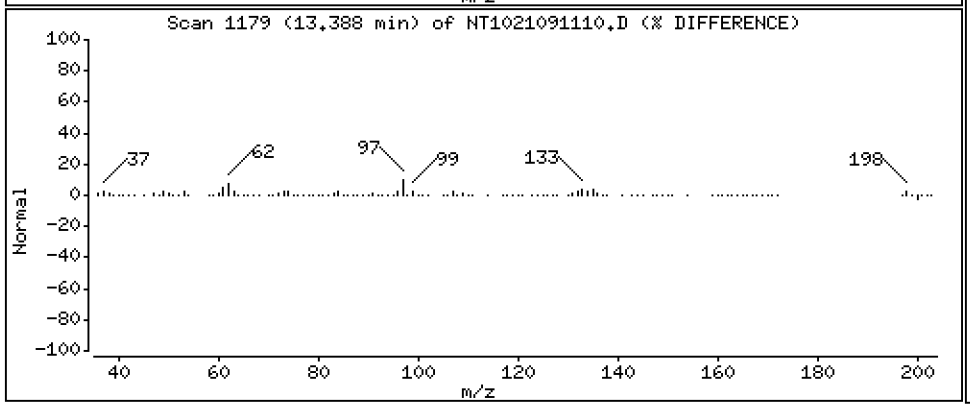
35 2,4,5-Trichlorophenol

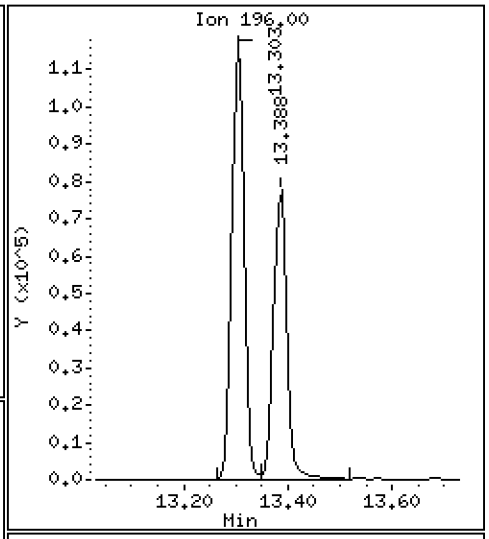
Concentration: 4.388 ug/mL

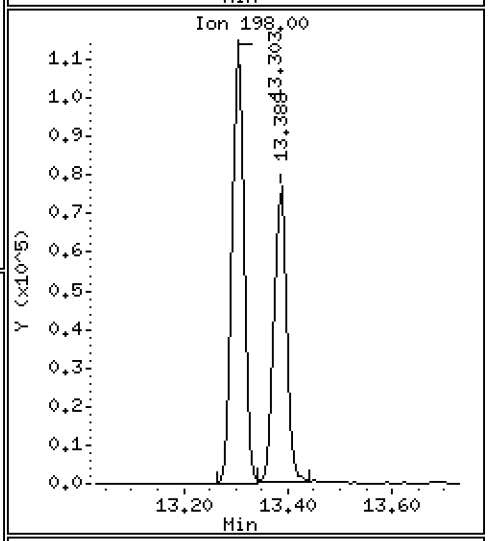


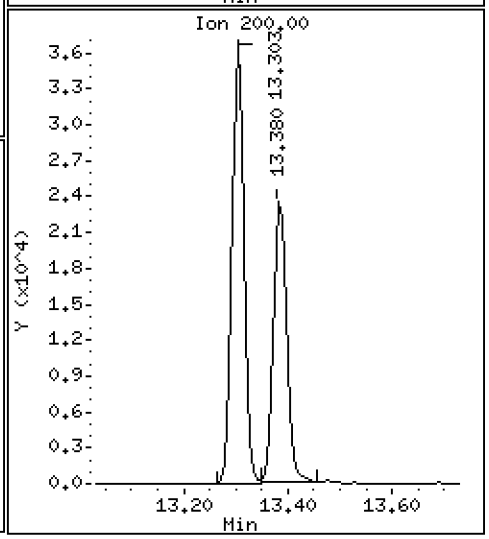












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

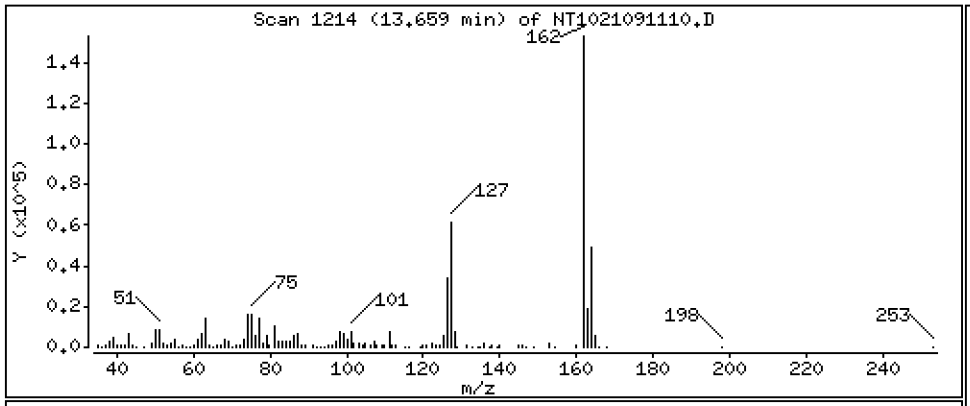
Operator: VTS

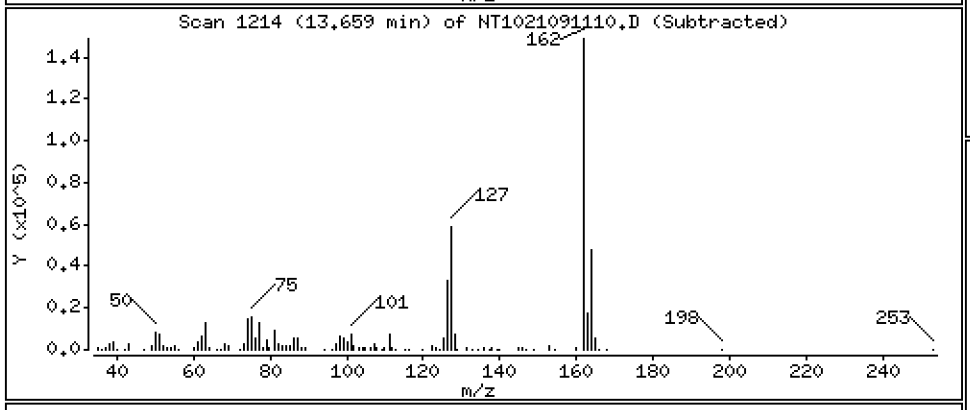
Column phase: ZB-5msi

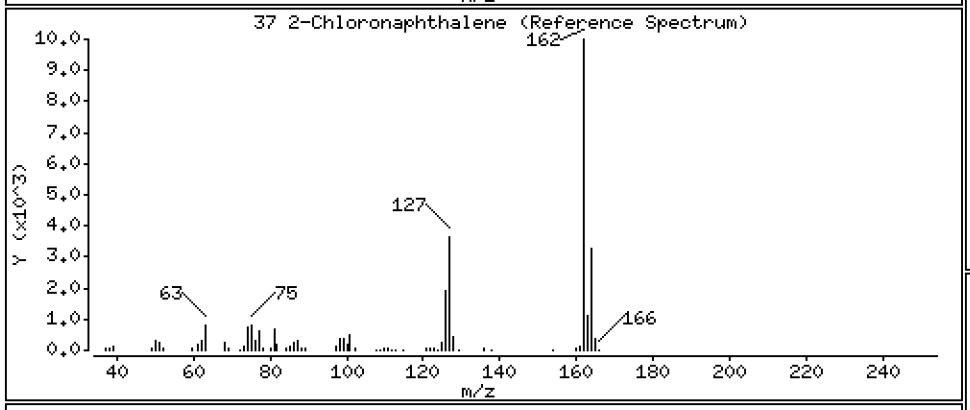
Column diameter: 0.25

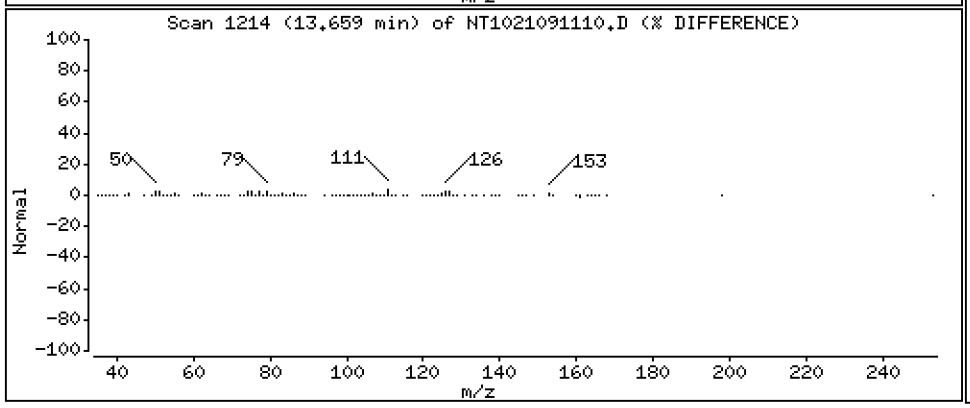
37 2-Chloronaphthalene

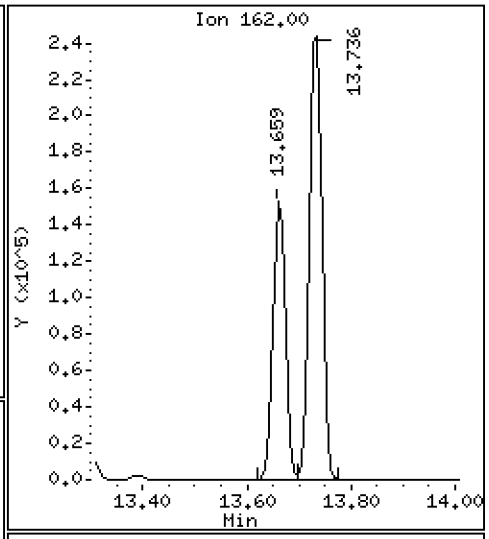
Concentration: 2.646 ug/mL

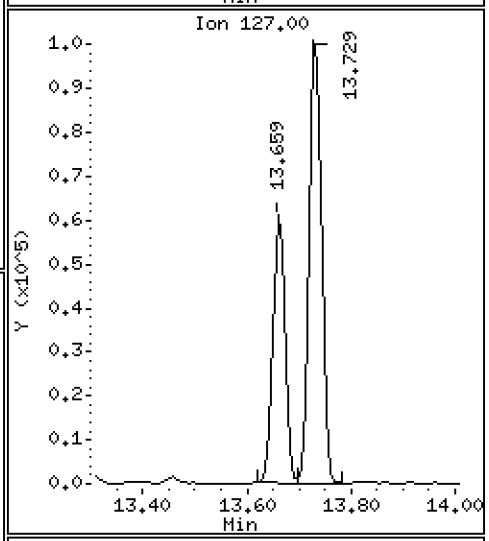


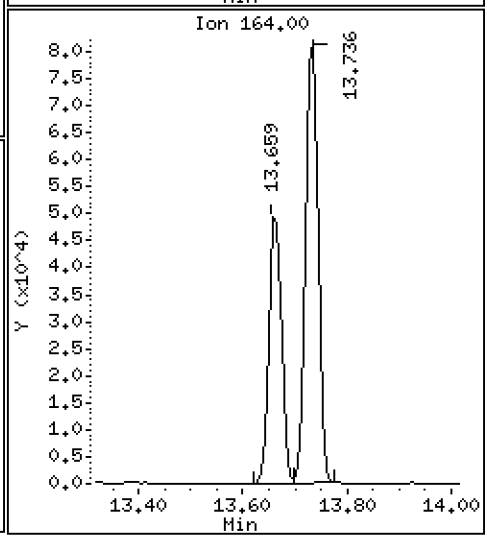












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

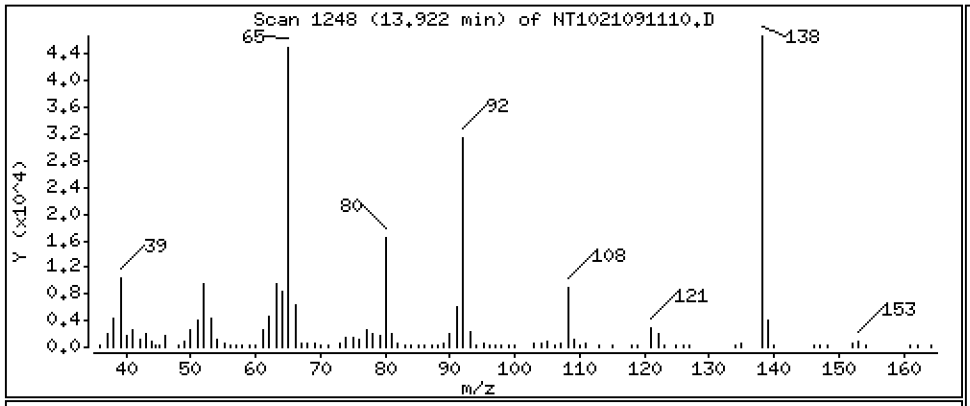
Operator: VTS

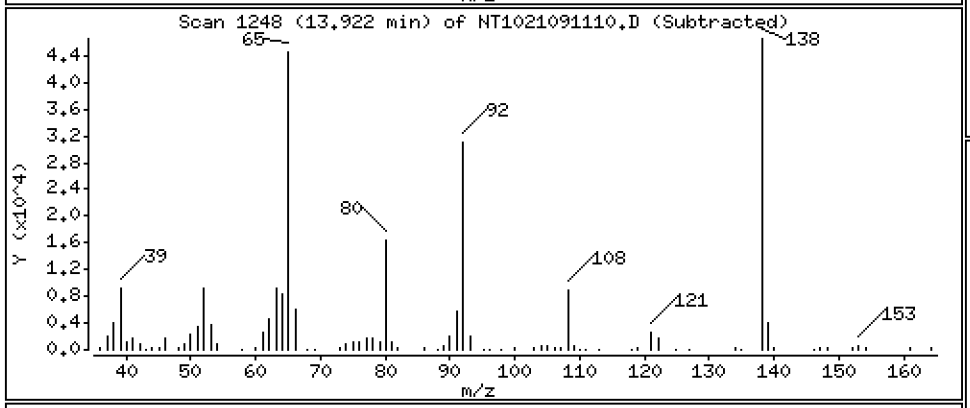
Column phase: ZB-5msi

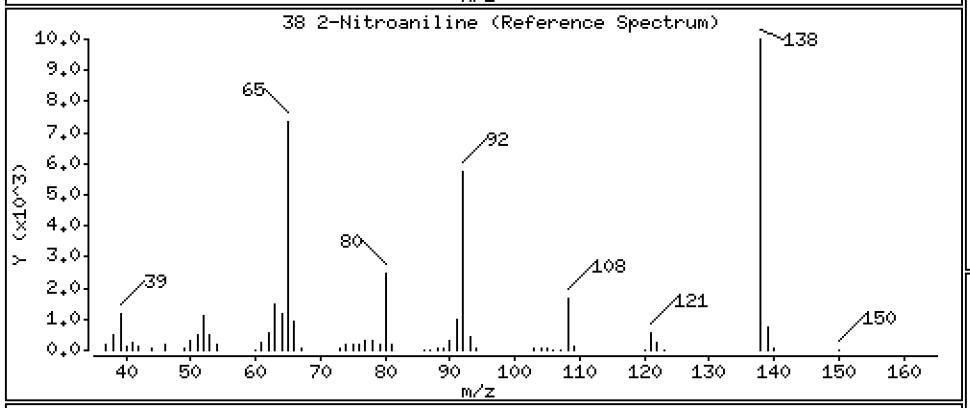
Column diameter: 0.25

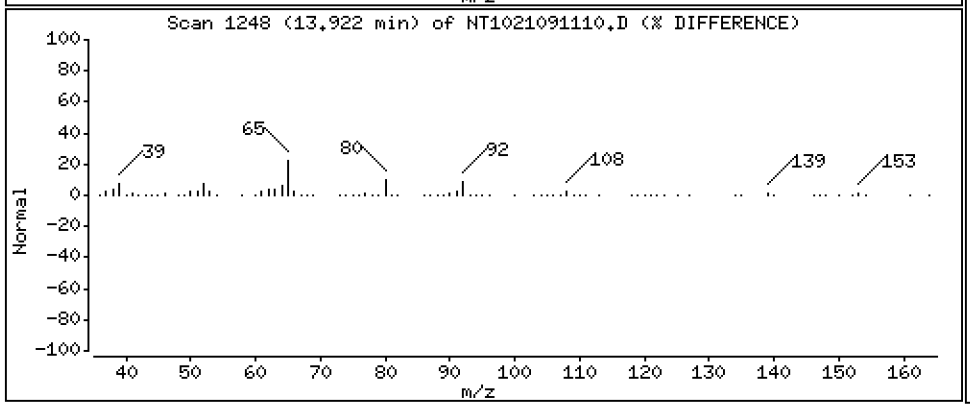
38 2-Nitroaniline

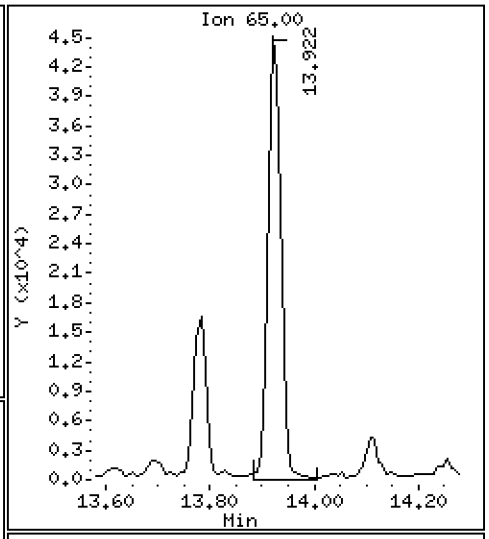
Concentration: 2.805 ug/mL

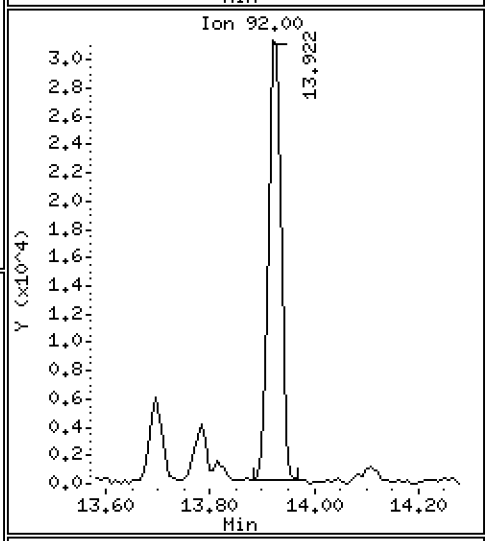


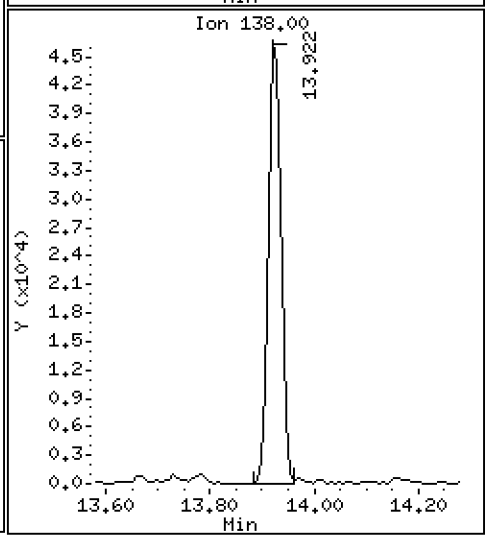












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

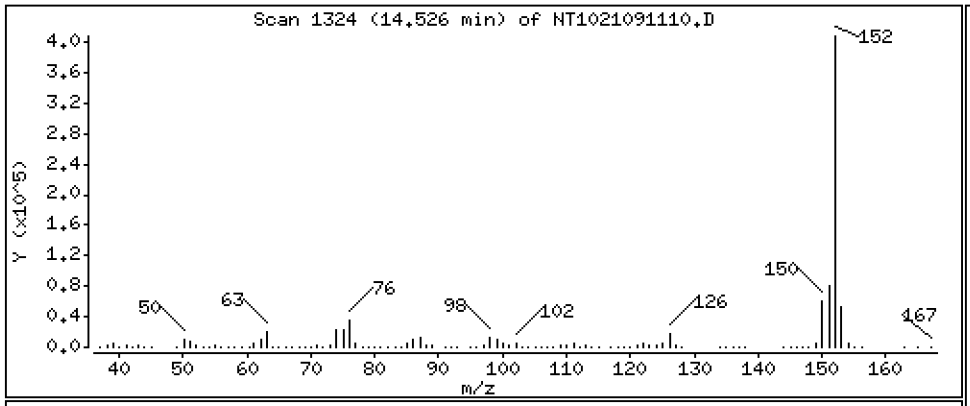
Operator: VTS

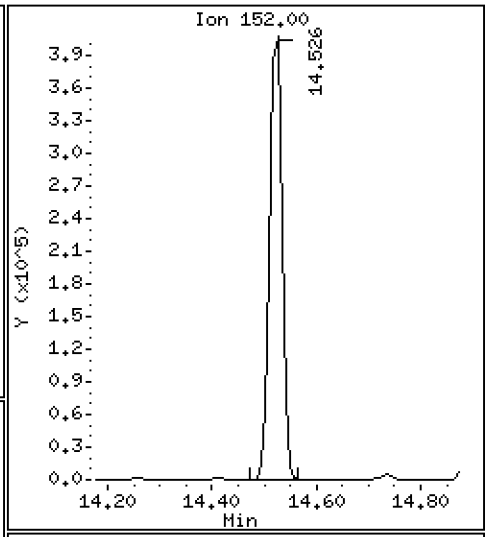
Column phase: ZB-5msi

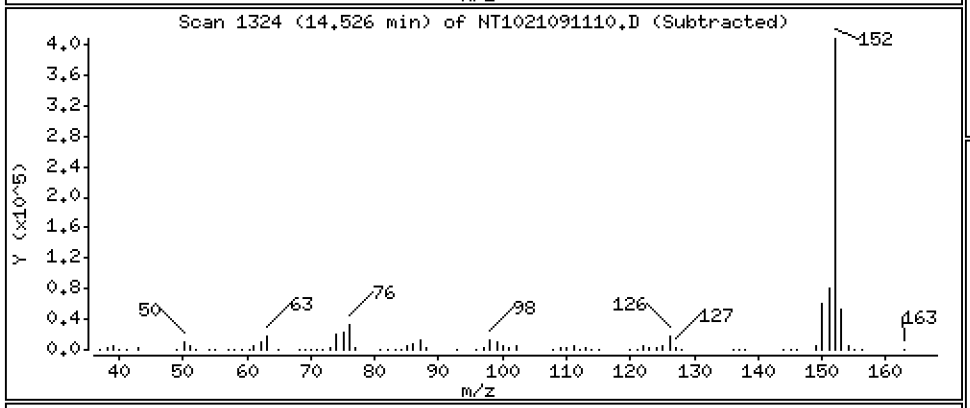
Column diameter: 0.25

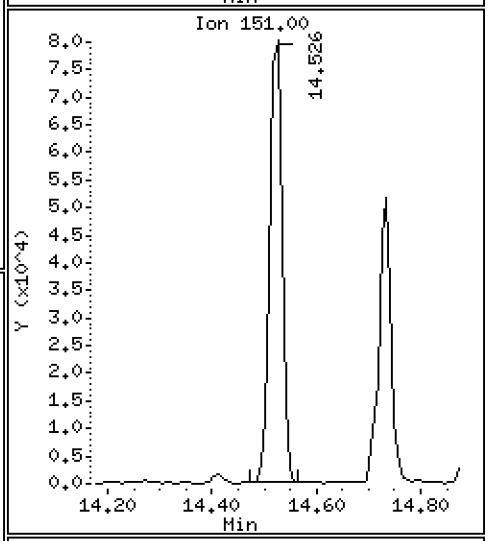
40 Acenaphthylene

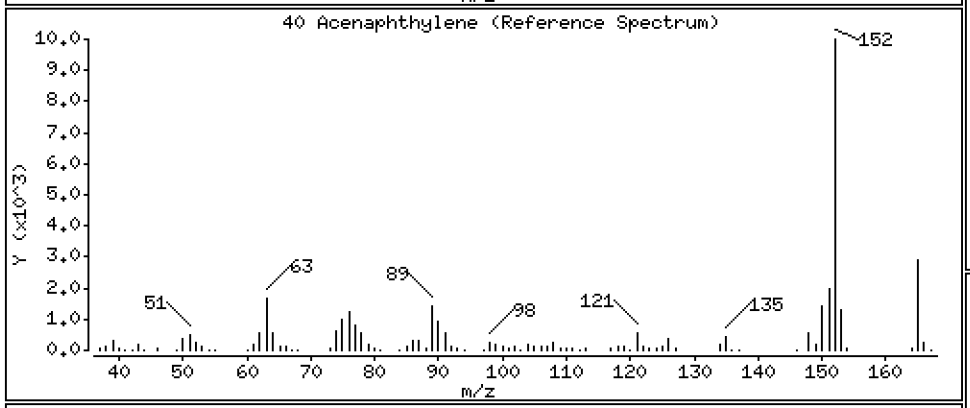
Concentration: 4.523 ug/mL

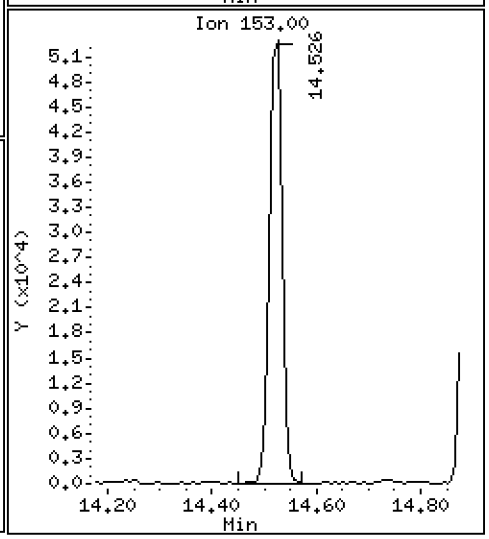


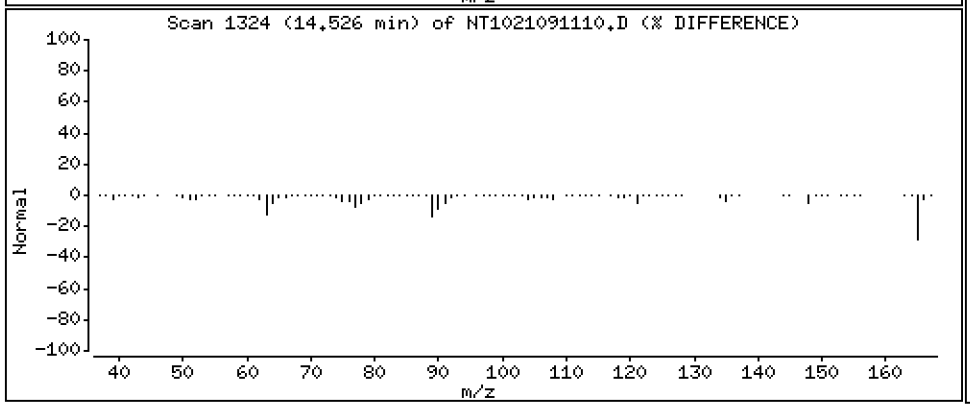












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

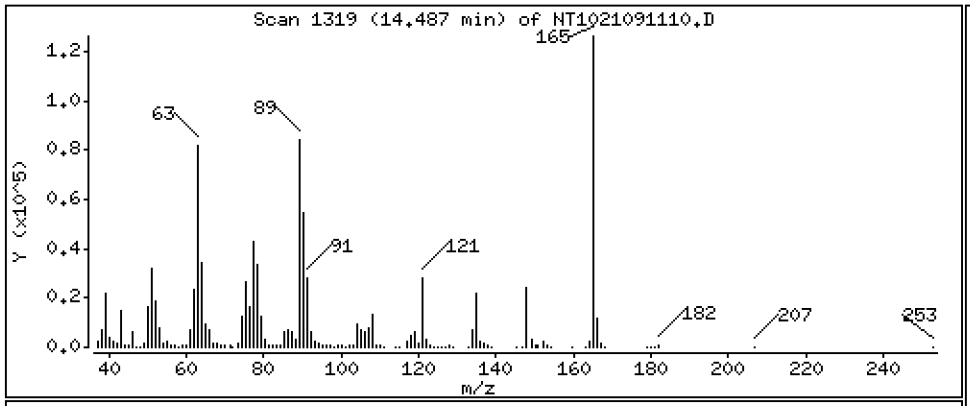
Operator: VTS

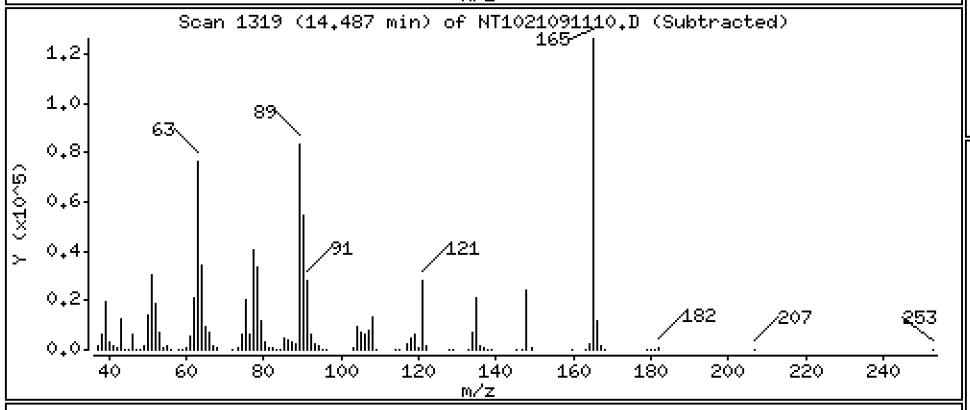
Column phase: ZB-5msi

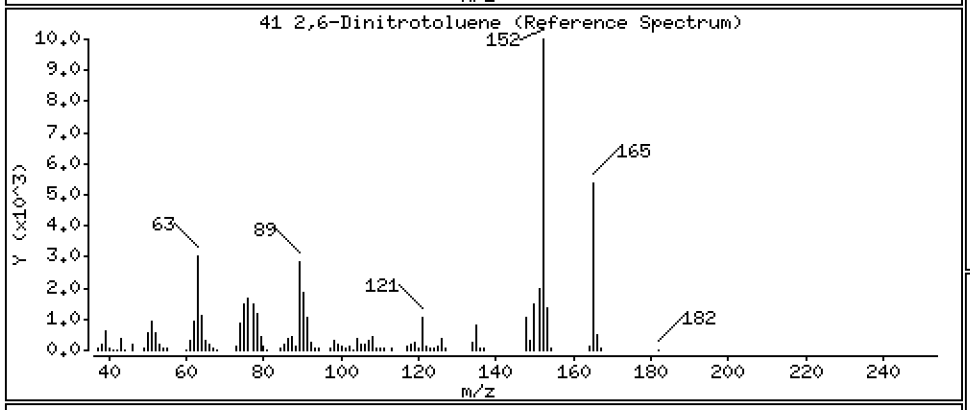
Column diameter: 0.25

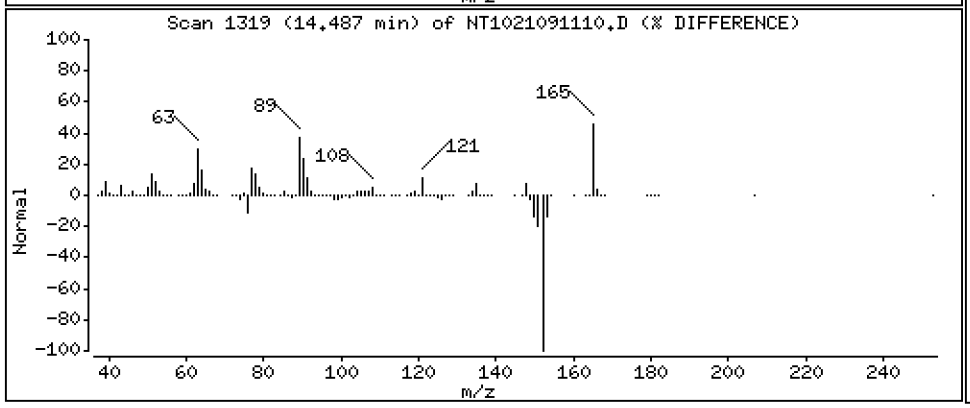
41 2,6-Dinitrotoluene

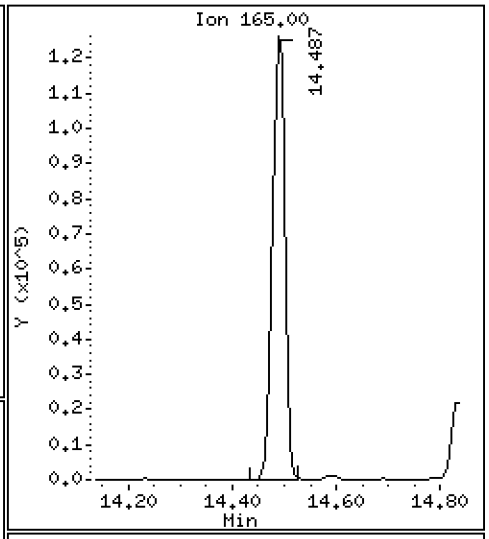
Concentration: 9.558 ug/mL

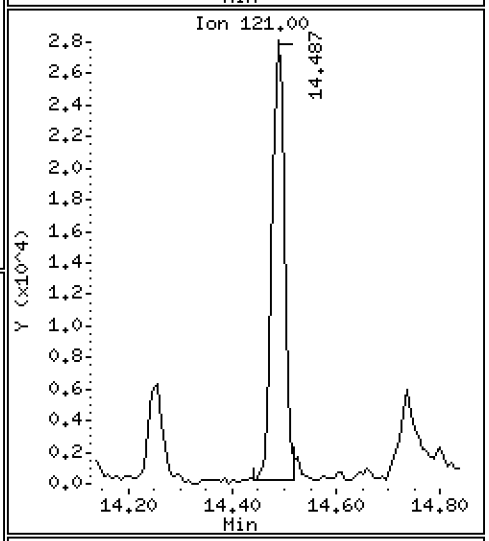


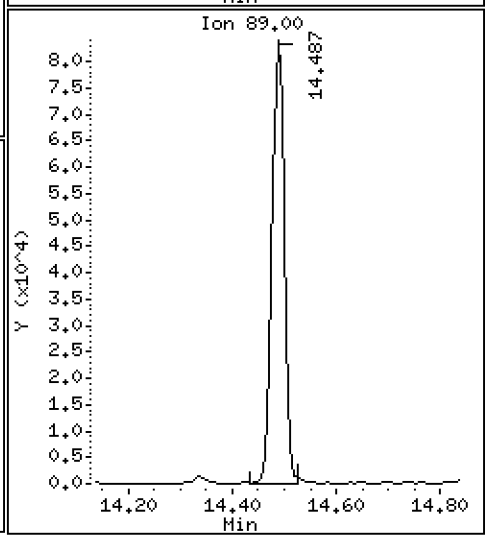












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

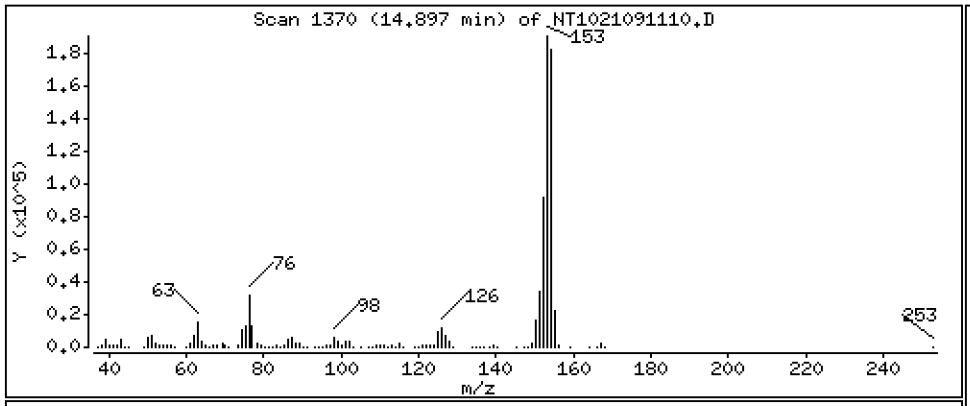
Operator: VTS

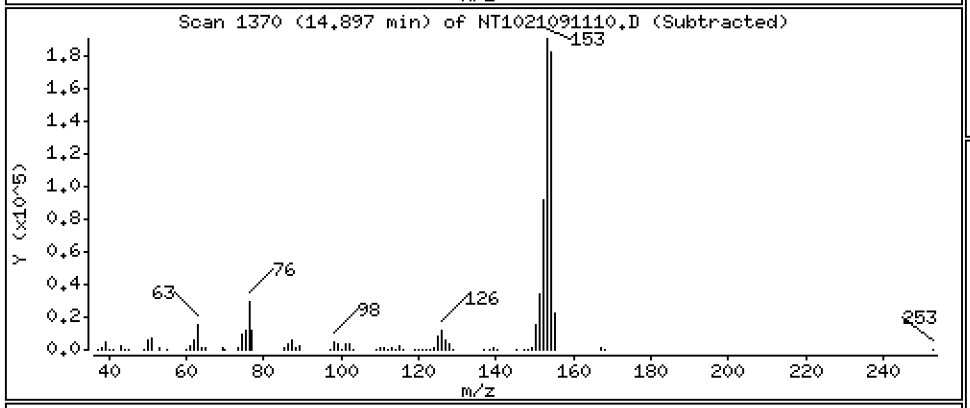
Column phase: ZB-5msi

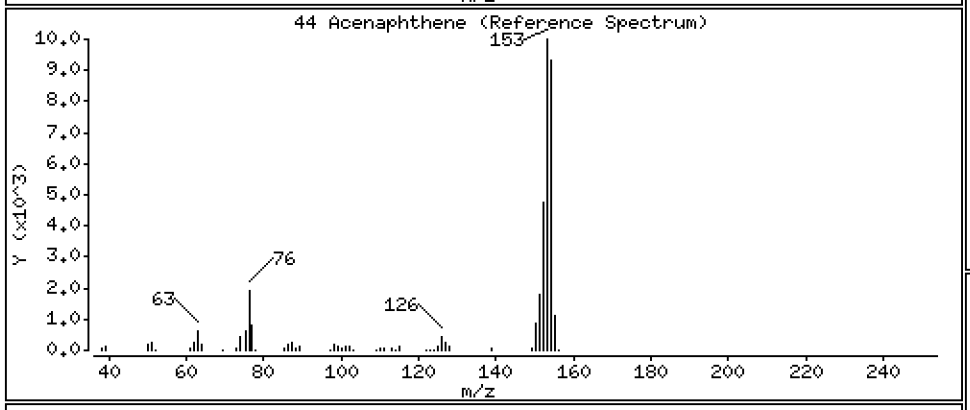
Column diameter: 0.25

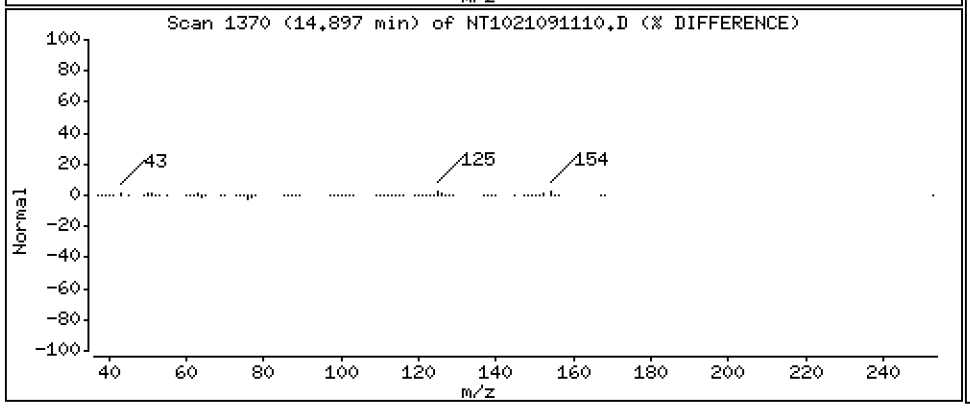
44 Acenaphthene

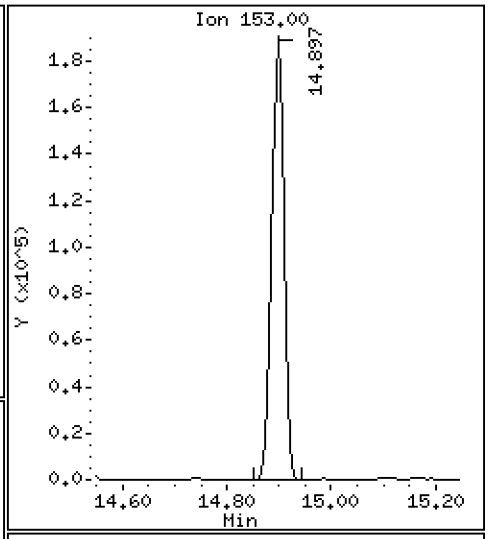
Concentration: 3.899 ug/mL

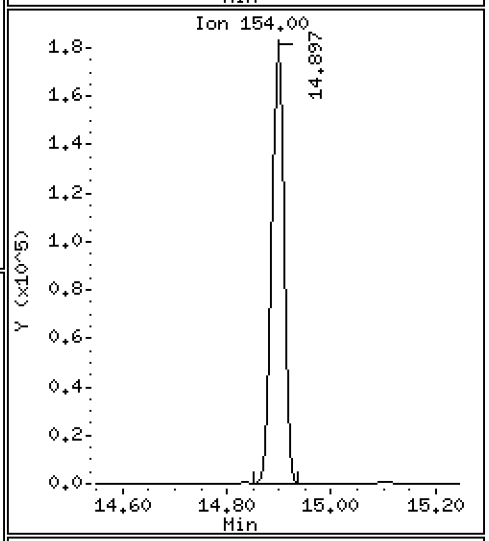


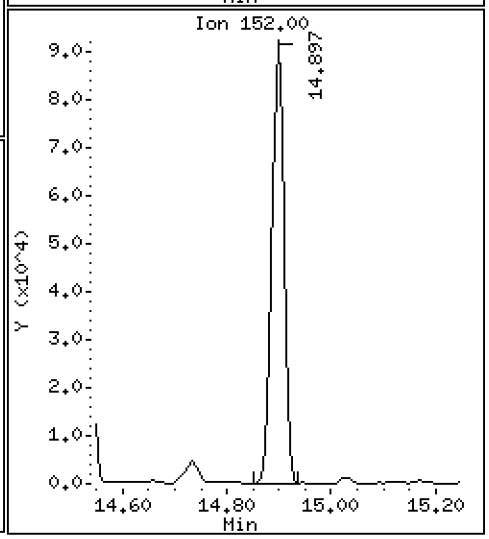












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

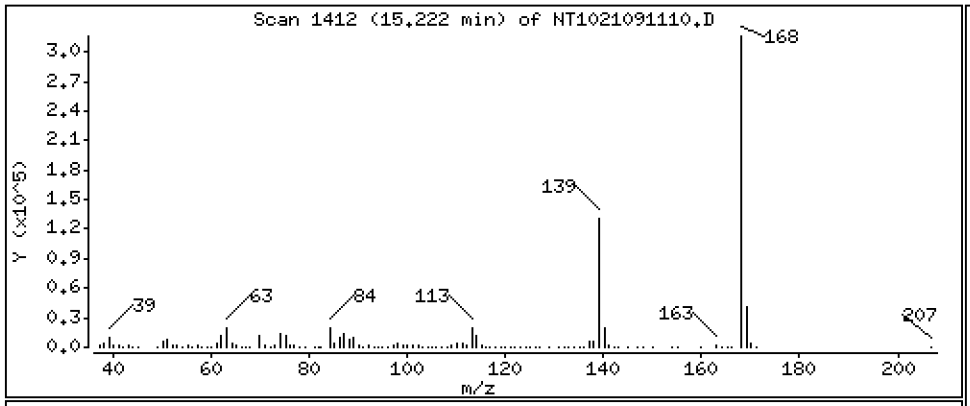
Operator: VTS

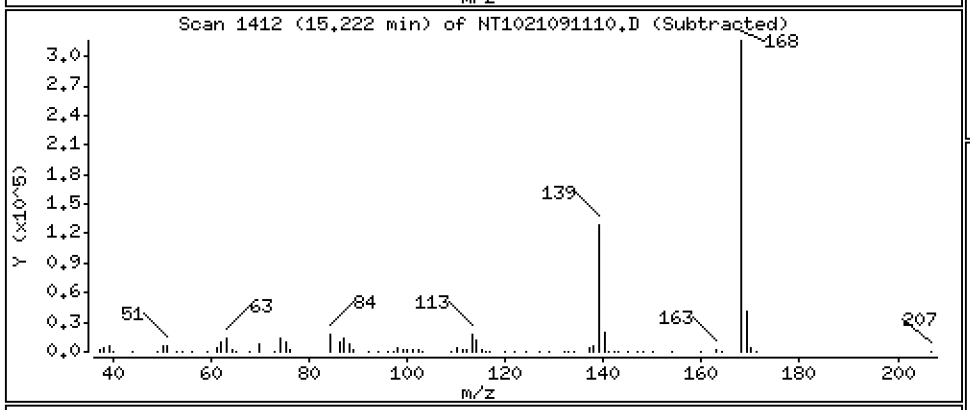
Column phase: ZB-5msi

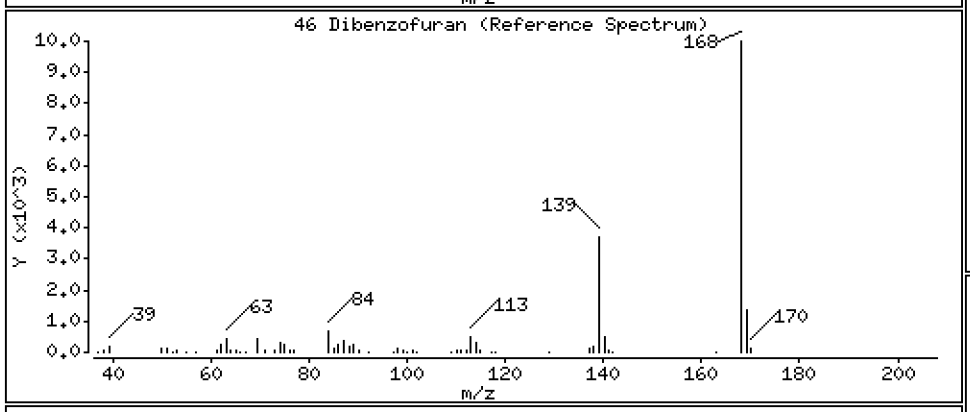
Column diameter: 0.25

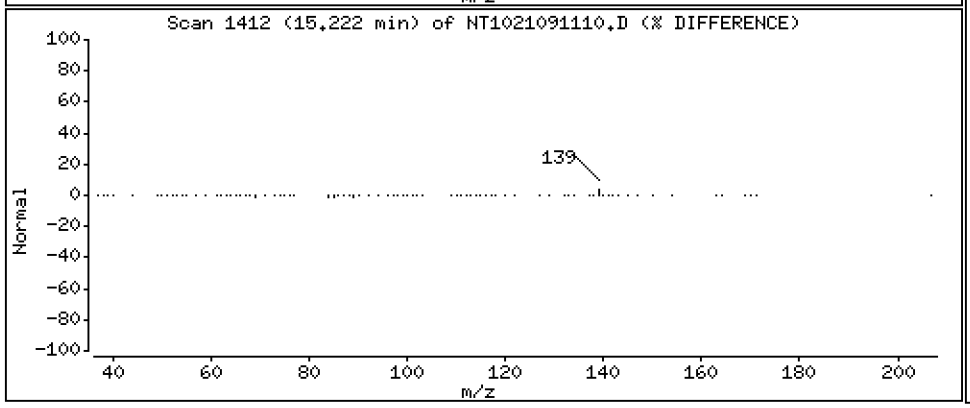
46 Dibenzofuran

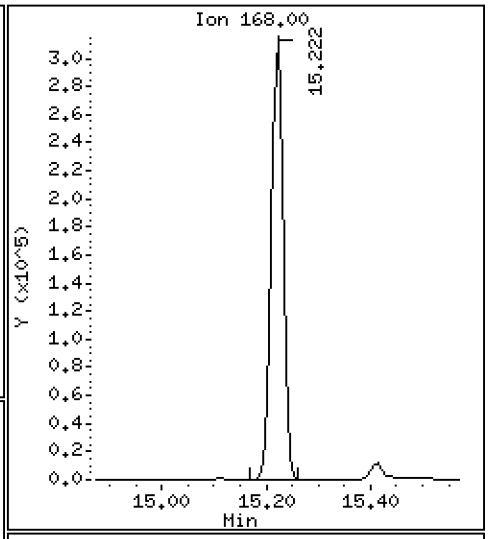
Concentration: 3.507 ug/mL

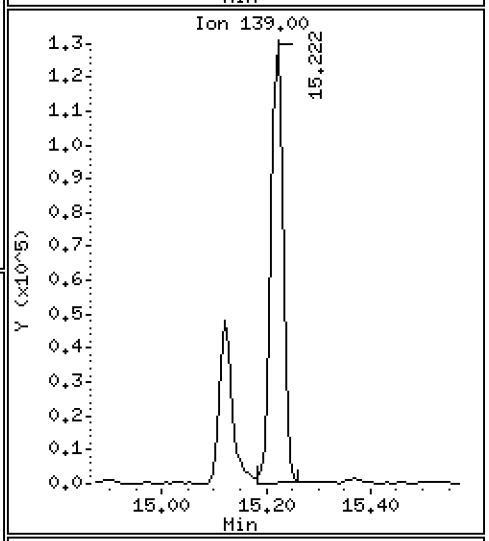


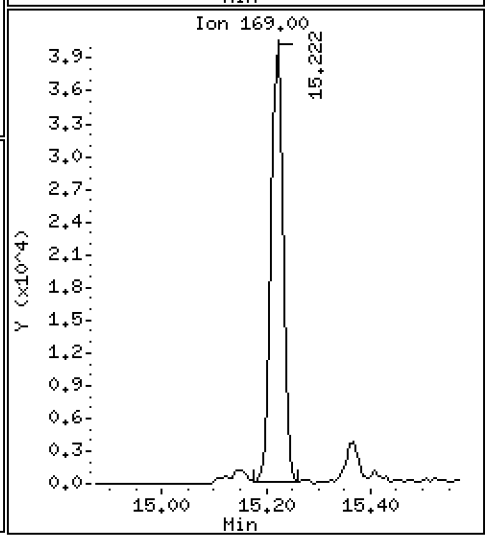












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

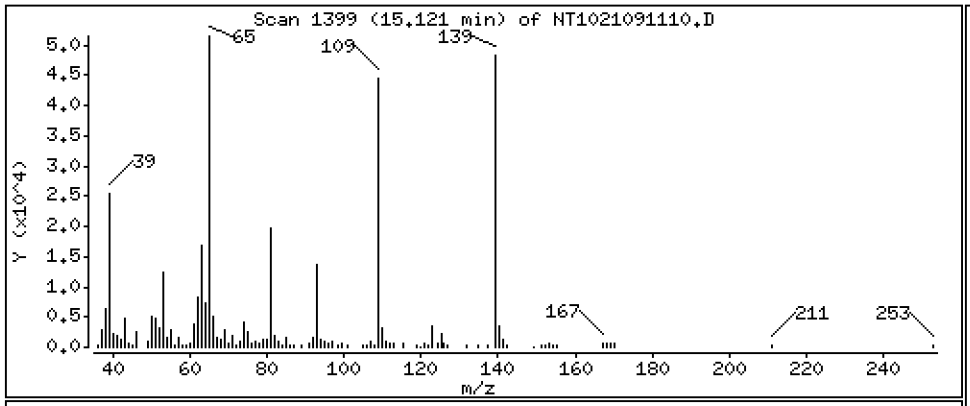
Operator: VTS

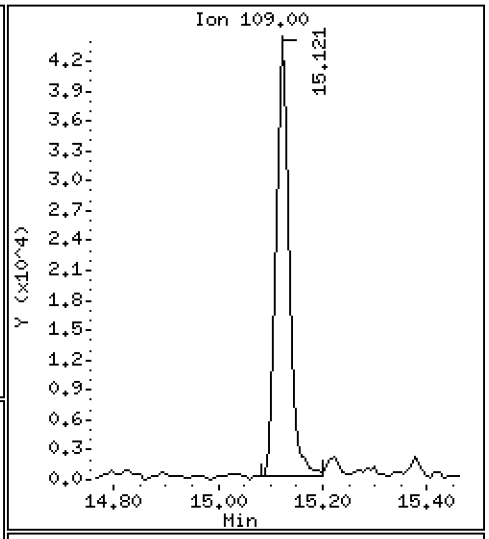
Column phase: ZB-5msi

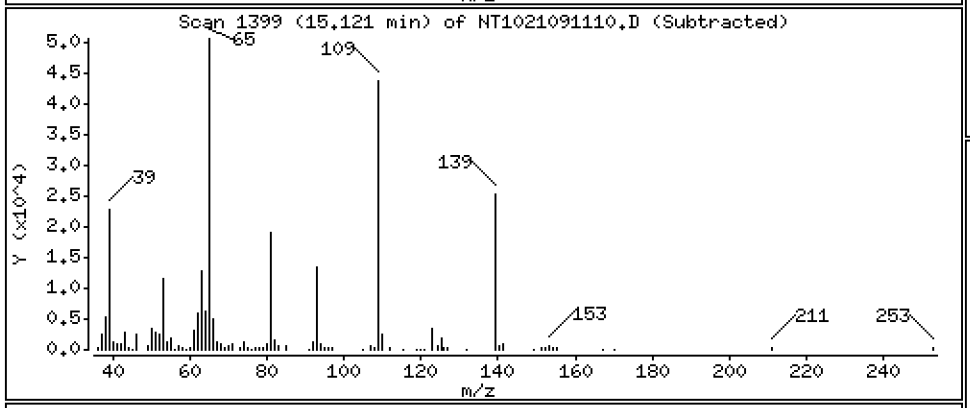
Column diameter: 0.25

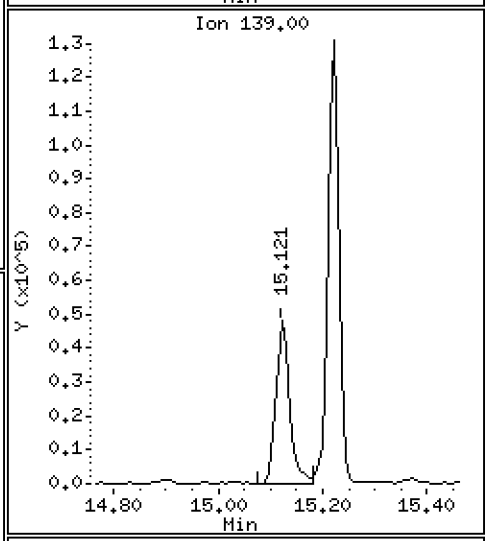
47 4-Nitrophenol

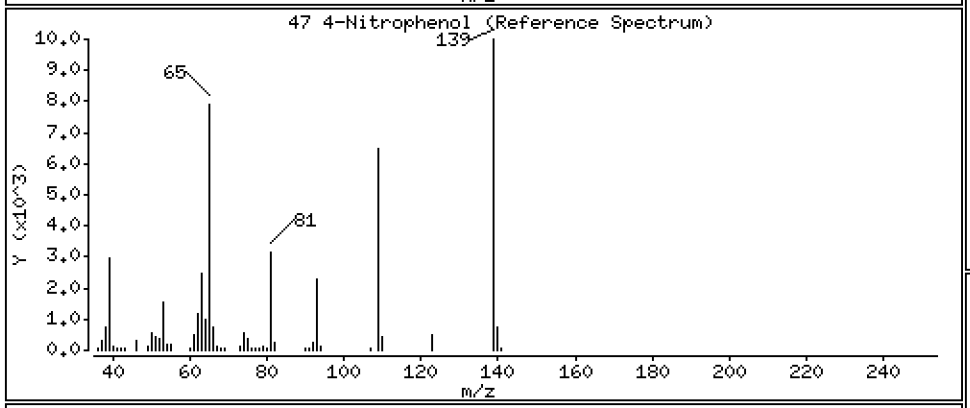
Concentration: 7.404 ug/mL

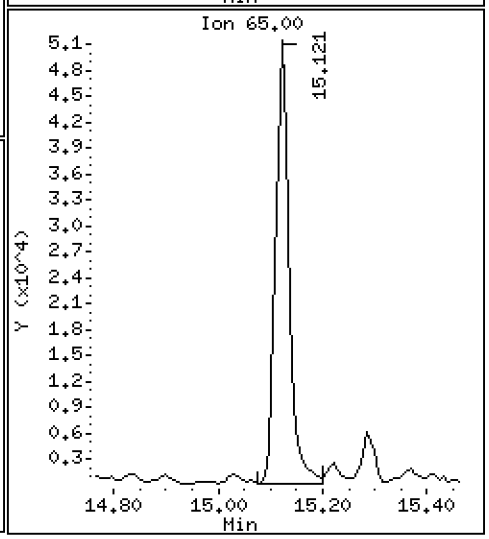


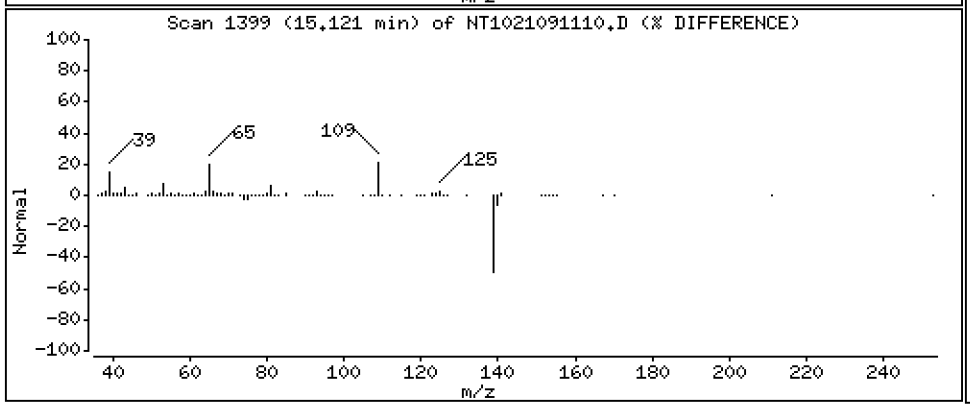












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

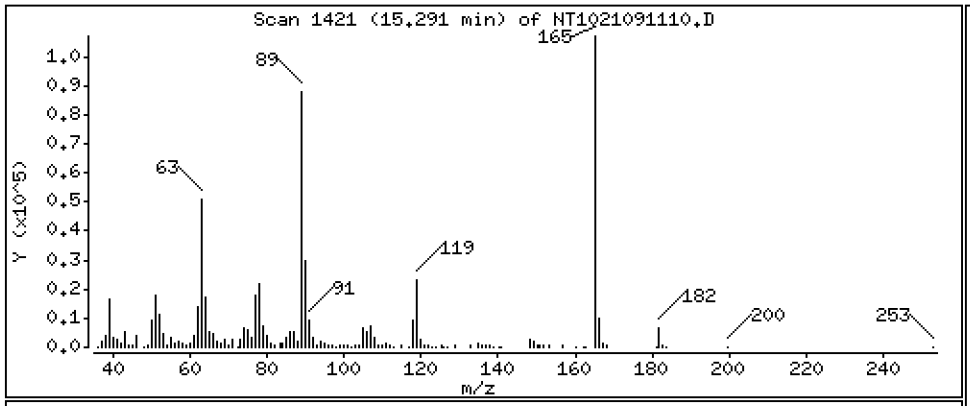
Operator: VTS

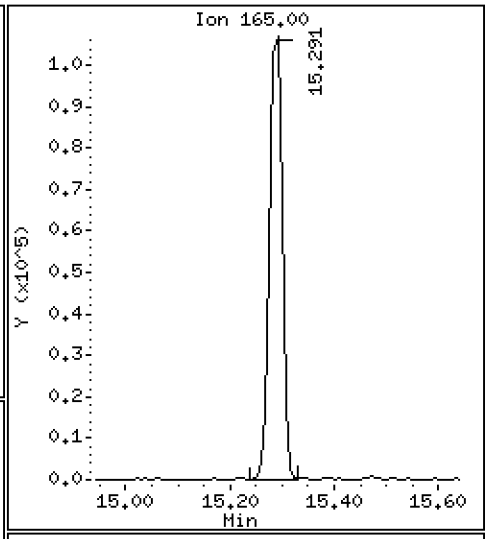
Column phase: ZB-5msi

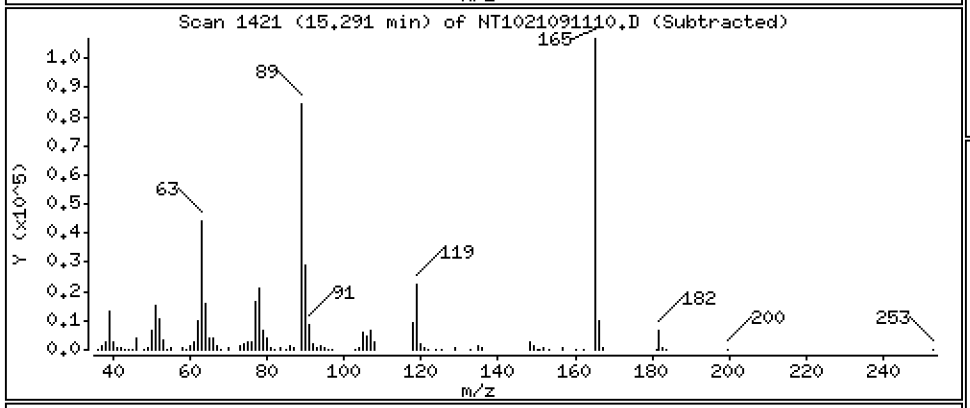
Column diameter: 0.25

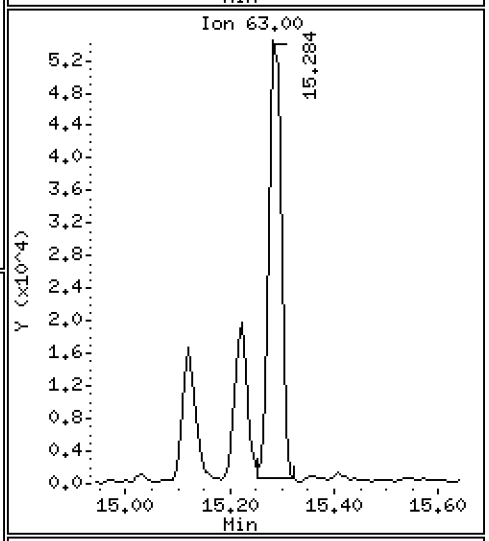
48 2,4-Dinitrotoluene

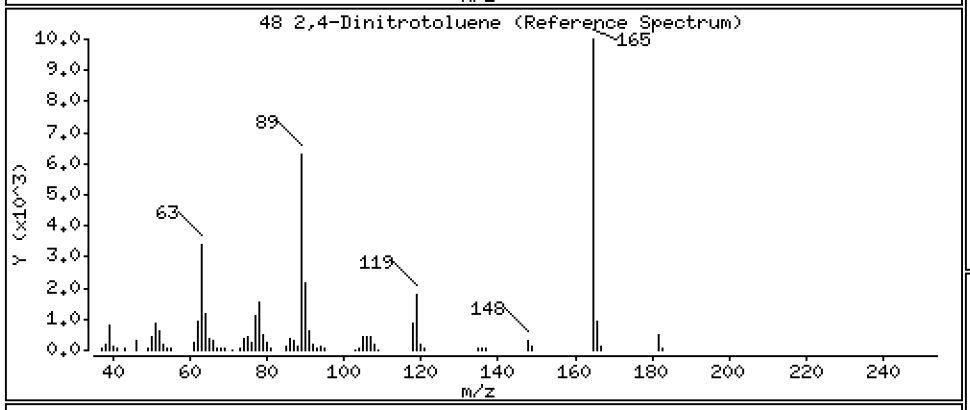
Concentration: 5.961 ug/mL

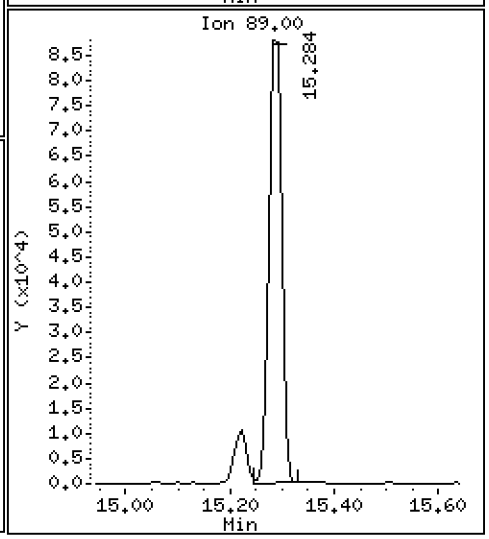


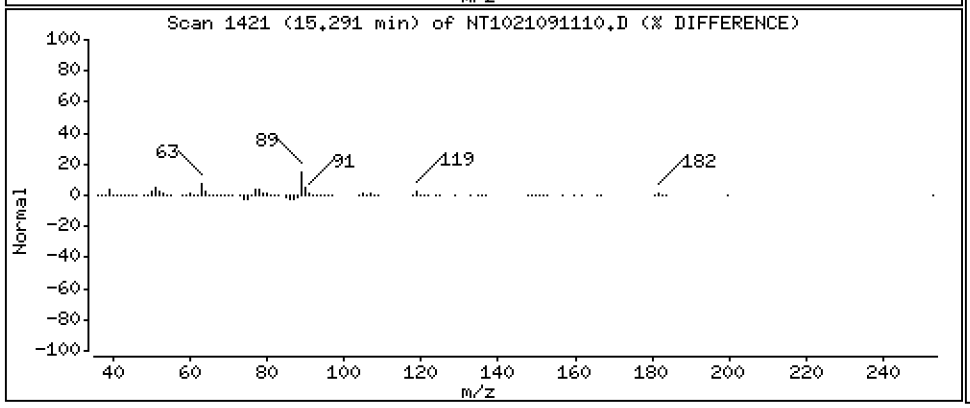












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

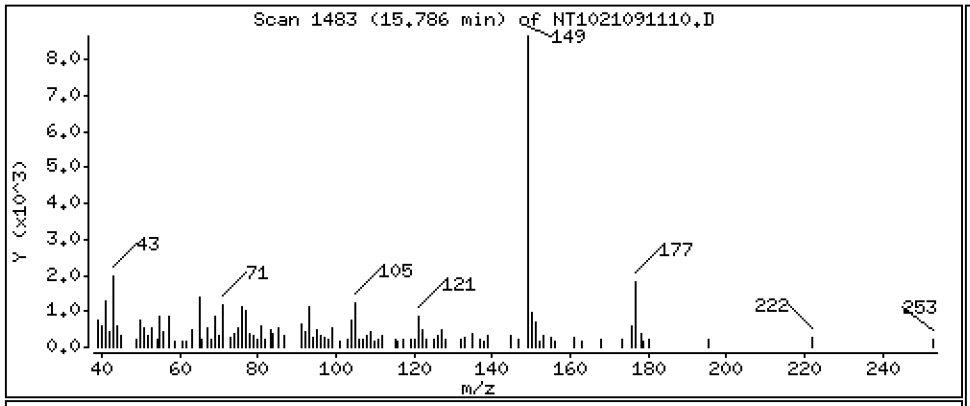
Operator: VTS

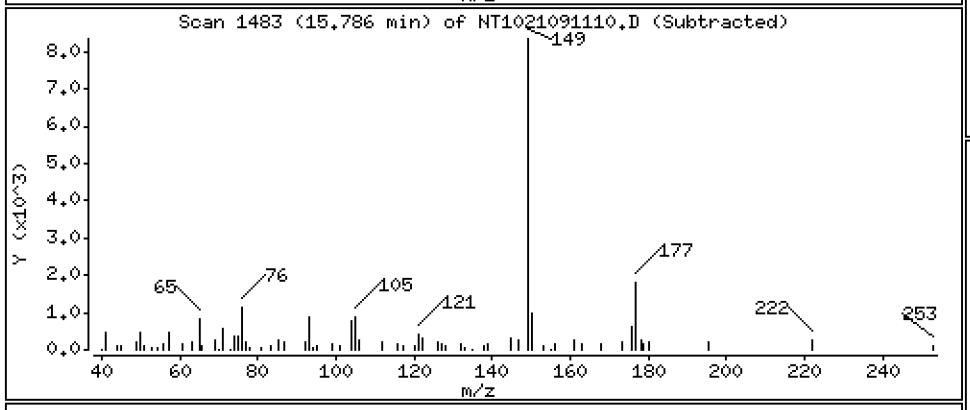
Column phase: ZB-5msi

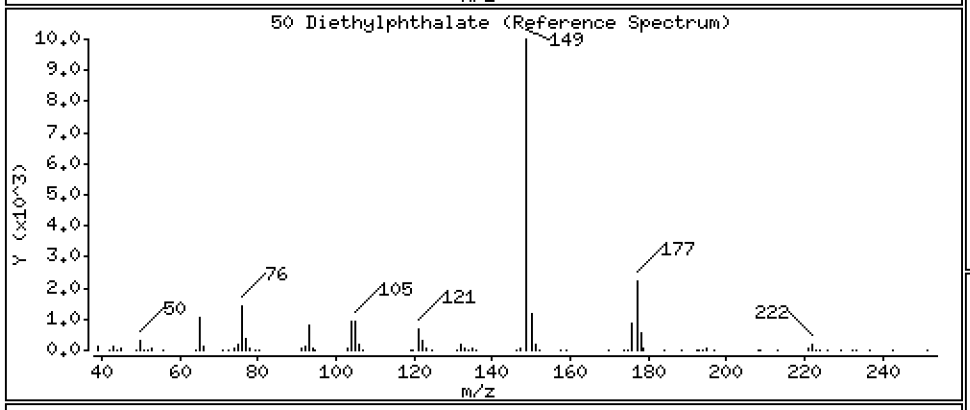
Column diameter: 0.25

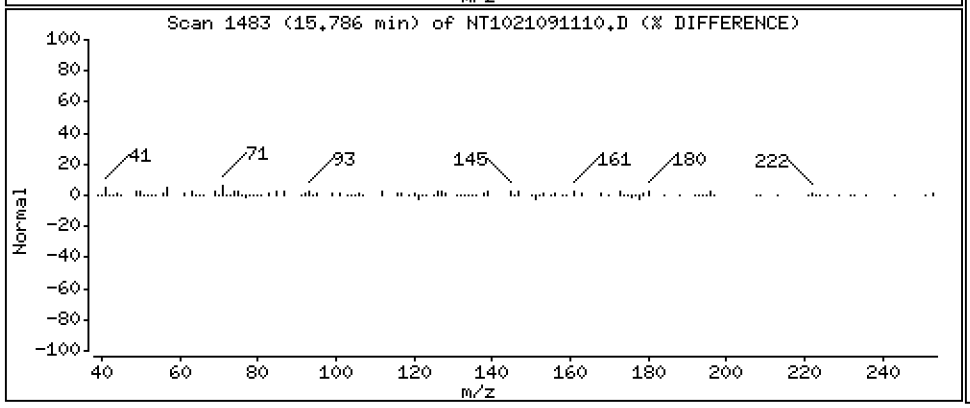
50 Diethylphthalate

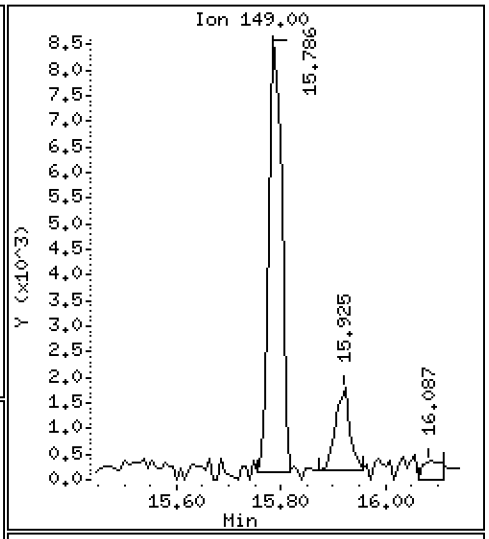
Concentration: 0.1596 ug/mL

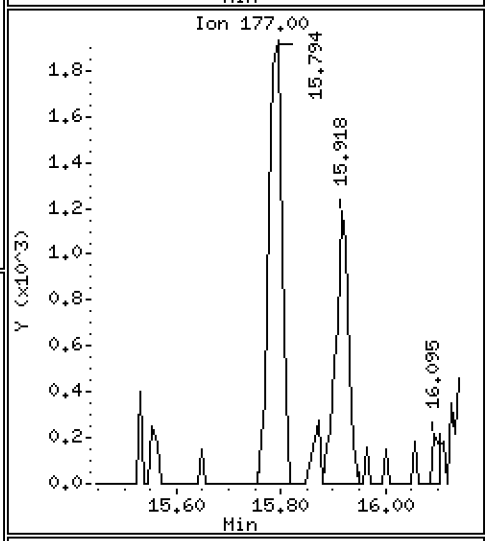


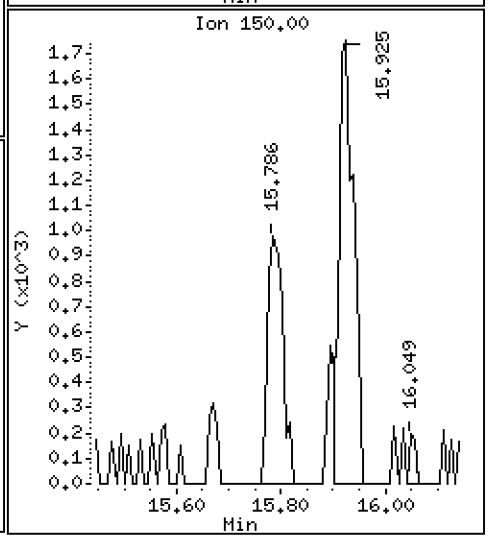












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

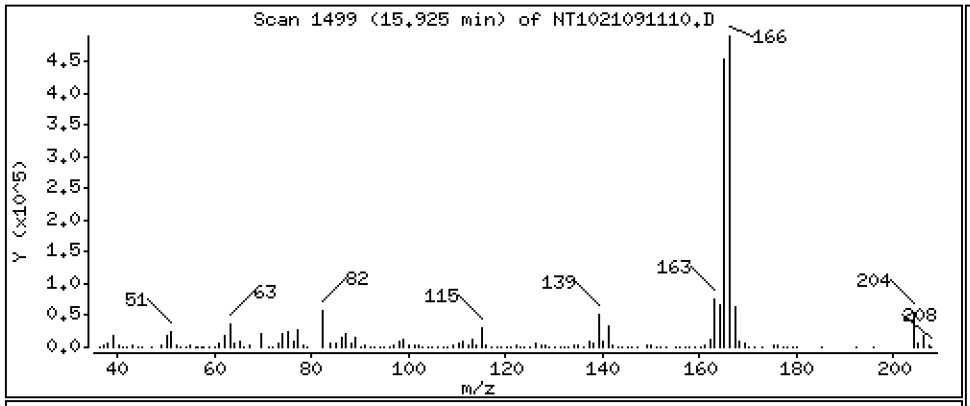
Operator: VTS

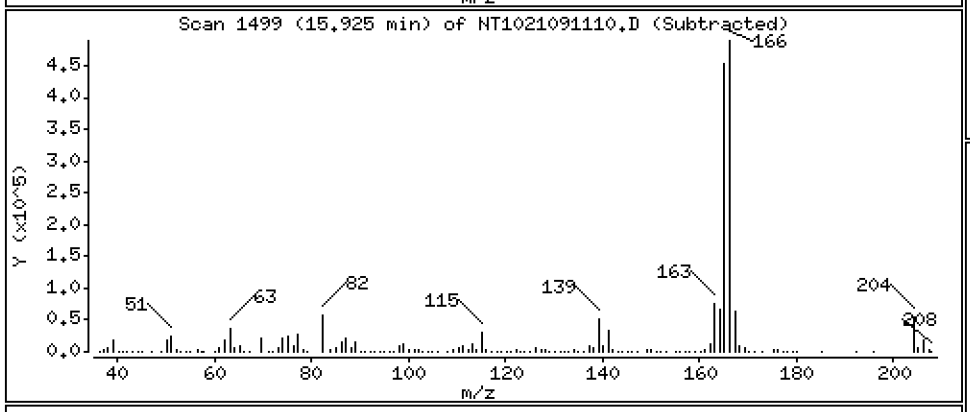
Column phase: ZB-5msi

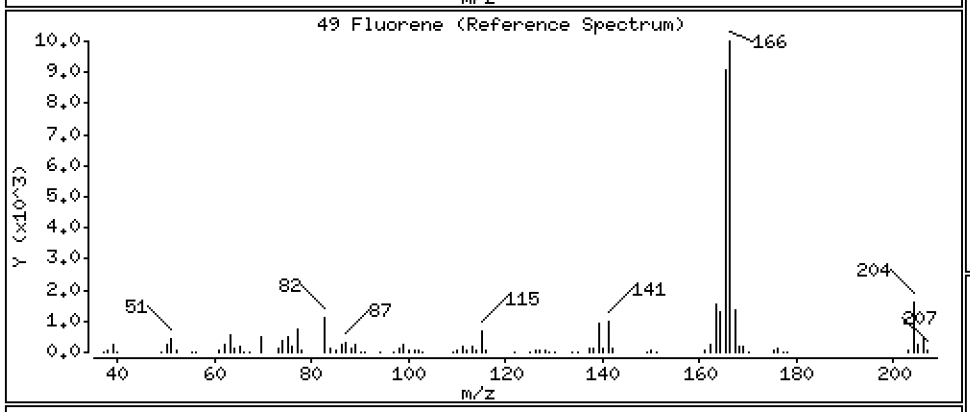
Column diameter: 0.25

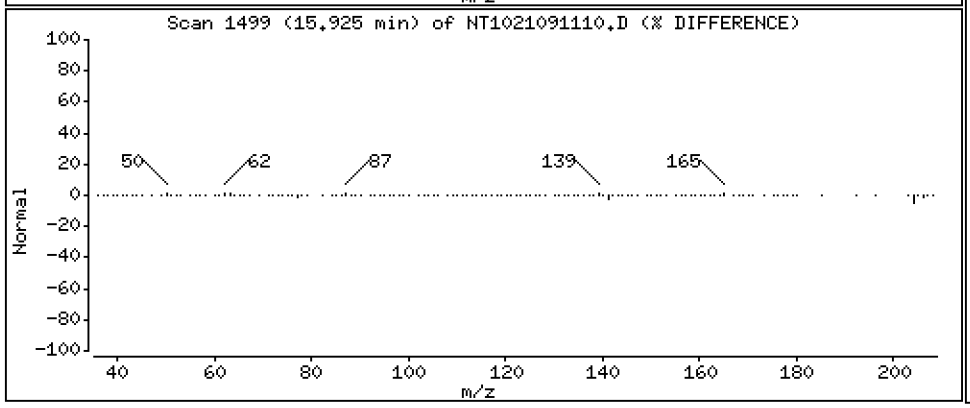
49 Fluorene

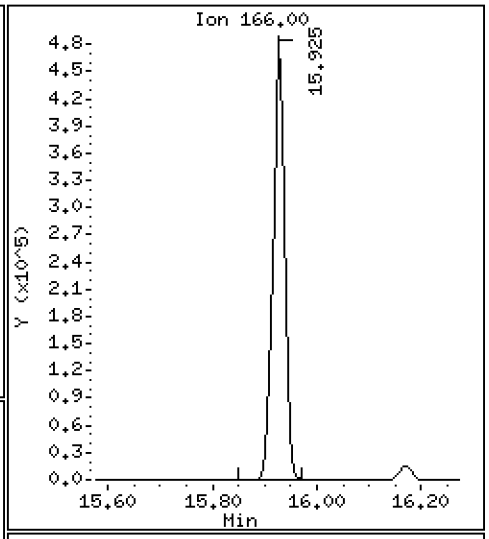
Concentration: 7.064 ug/mL

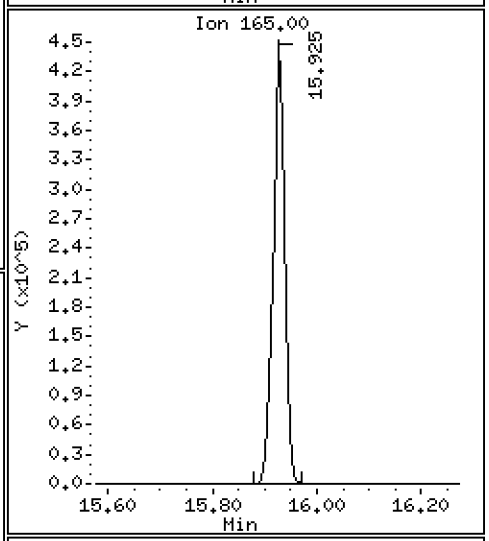


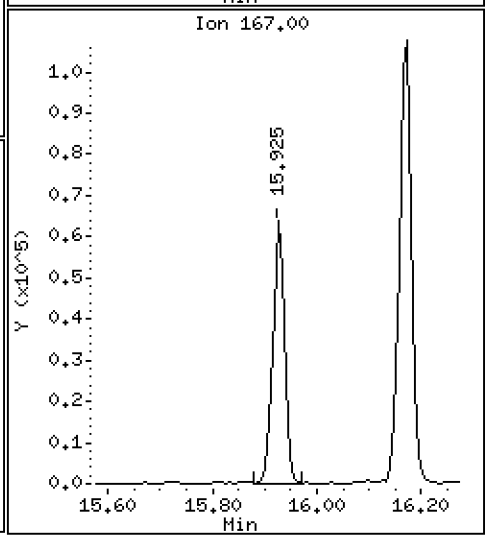












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

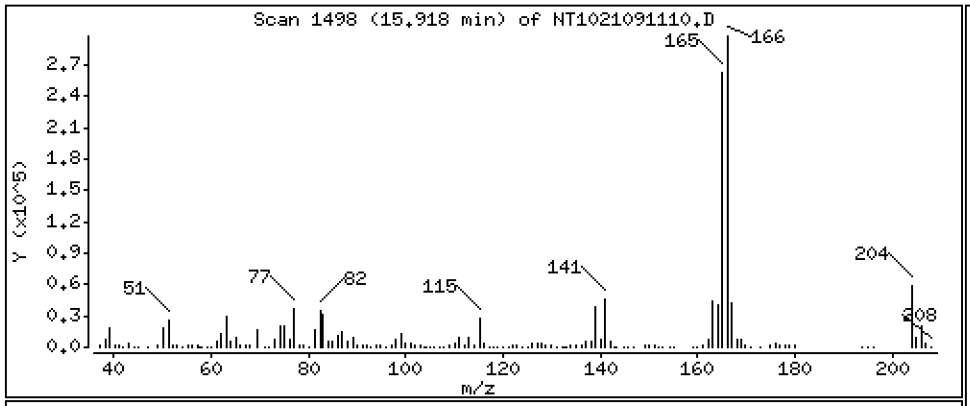
Operator: VTS

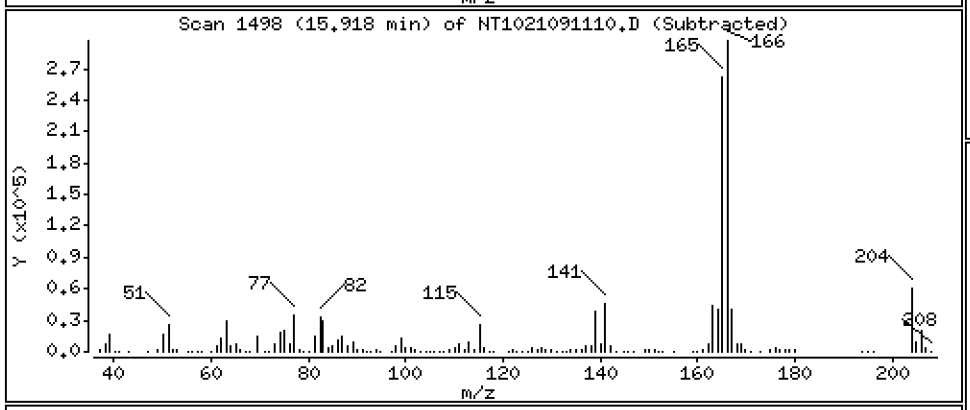
Column phase: ZB-5msi

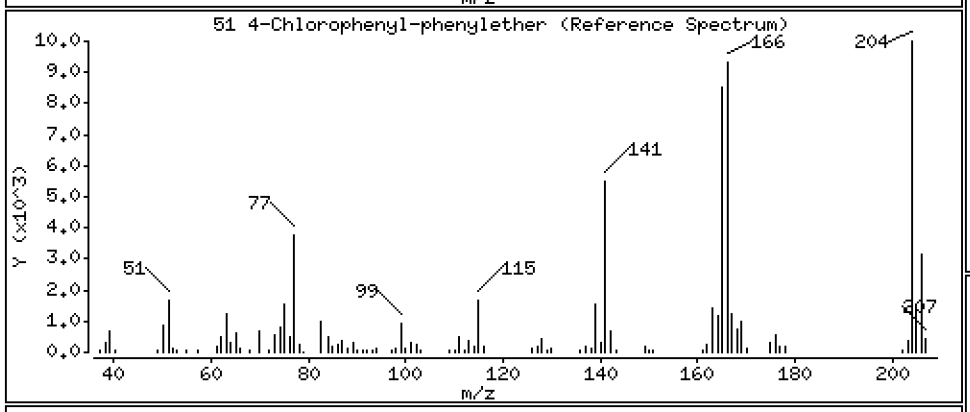
Column diameter: 0.25

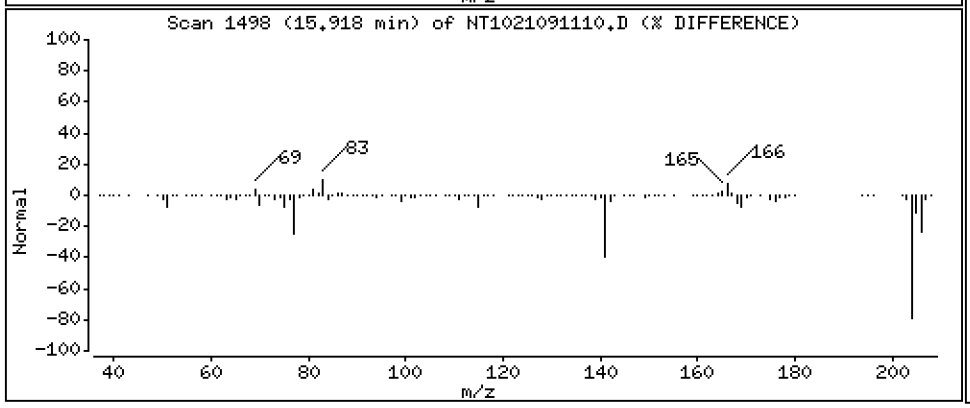
51 4-Chlorophenyl-phenylether

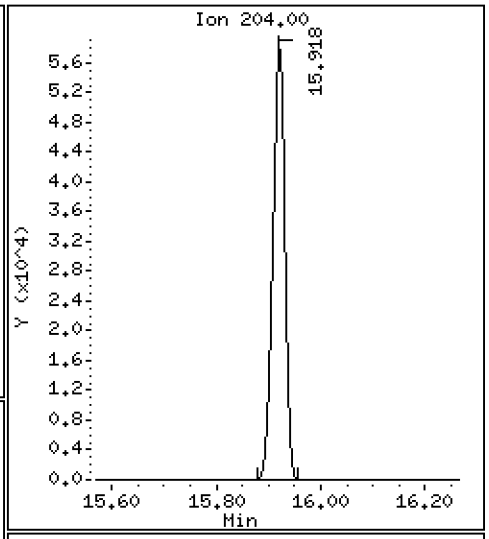
Concentration: 1.738 ug/mL

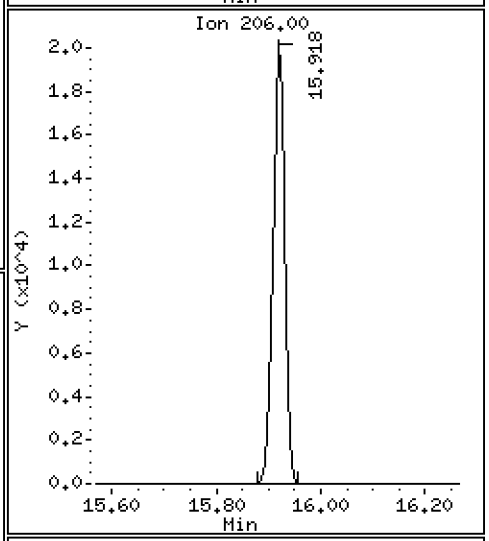


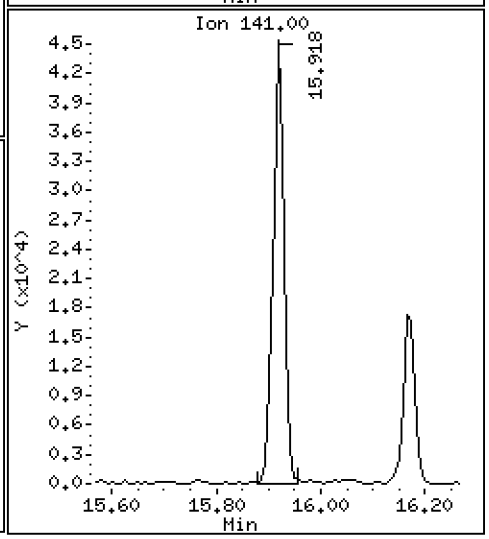












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

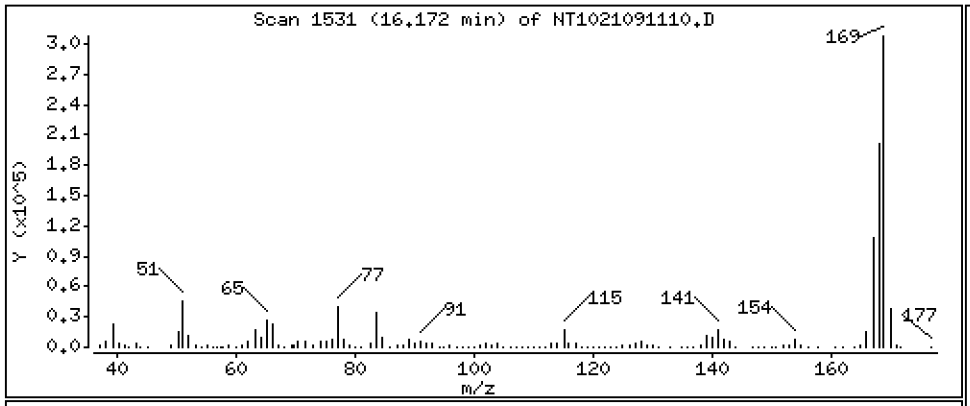
Operator: VTS

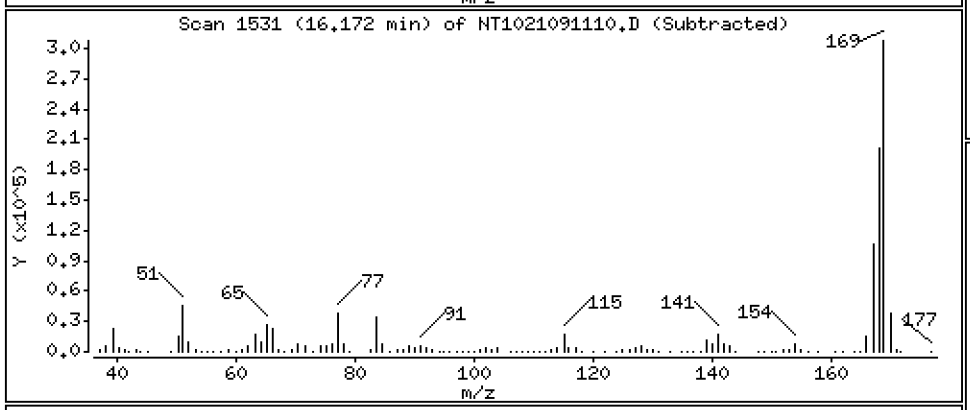
Column phase: ZB-5msi

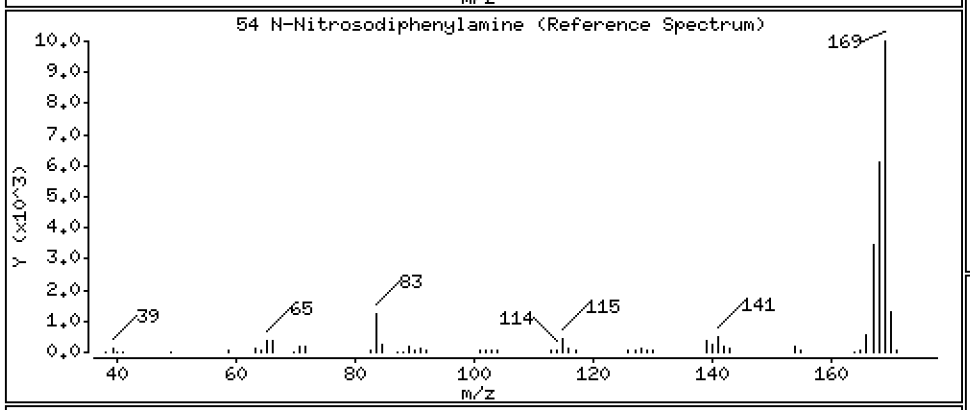
Column diameter: 0.25

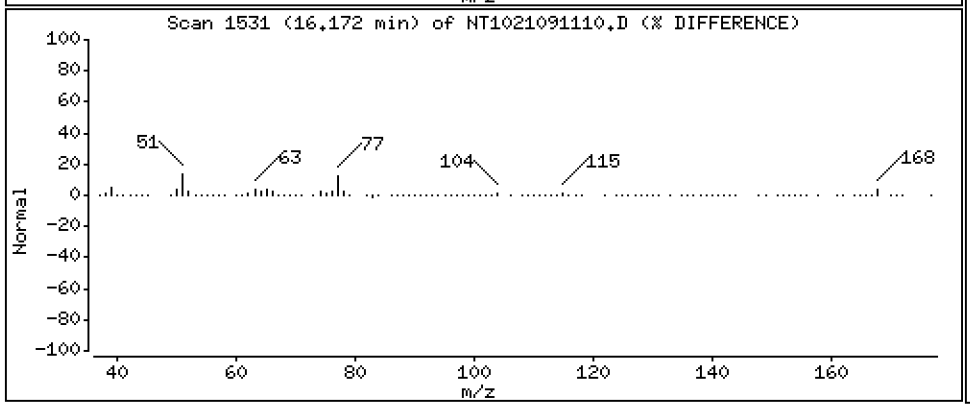
54 N-Nitrosodiphenylamine

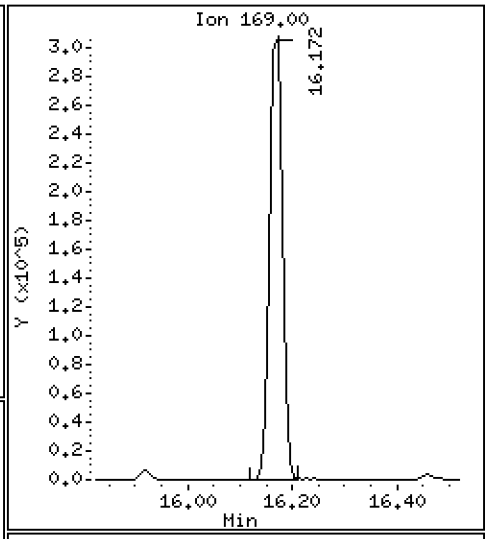
Concentration: 8.017 ug/mL

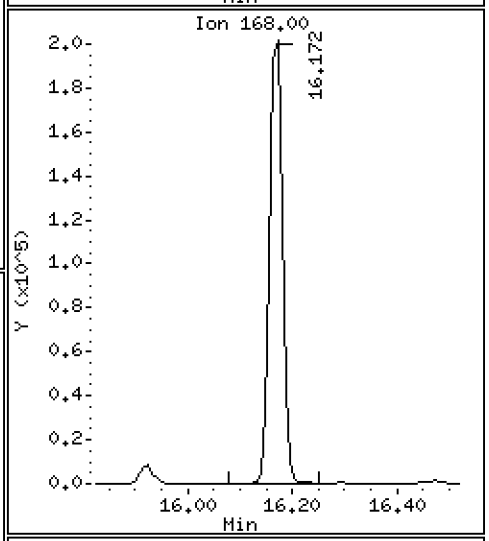


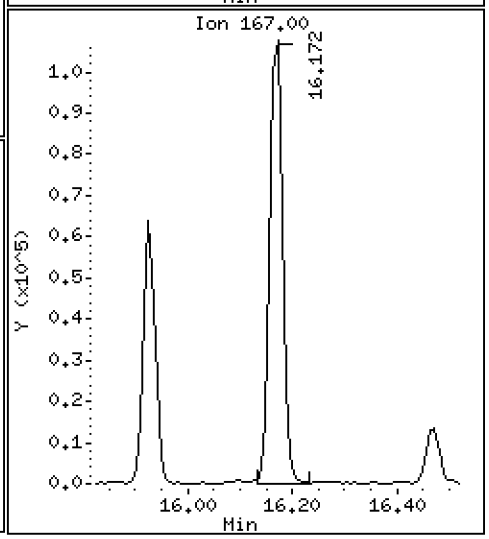












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

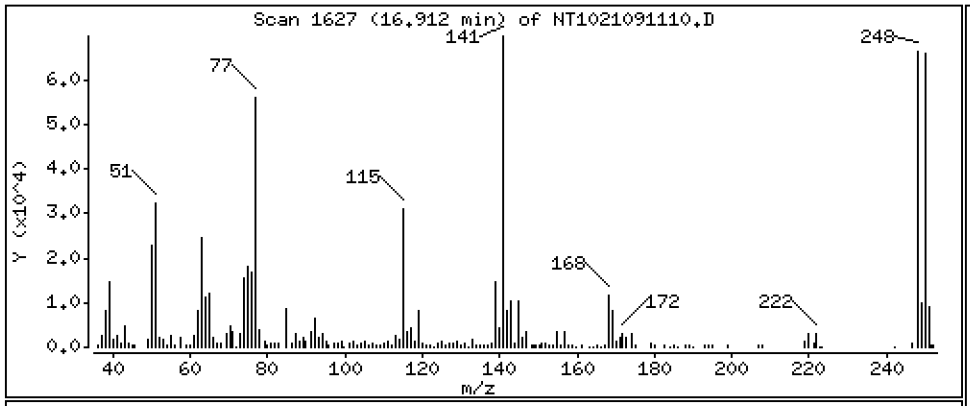
Operator: VTS

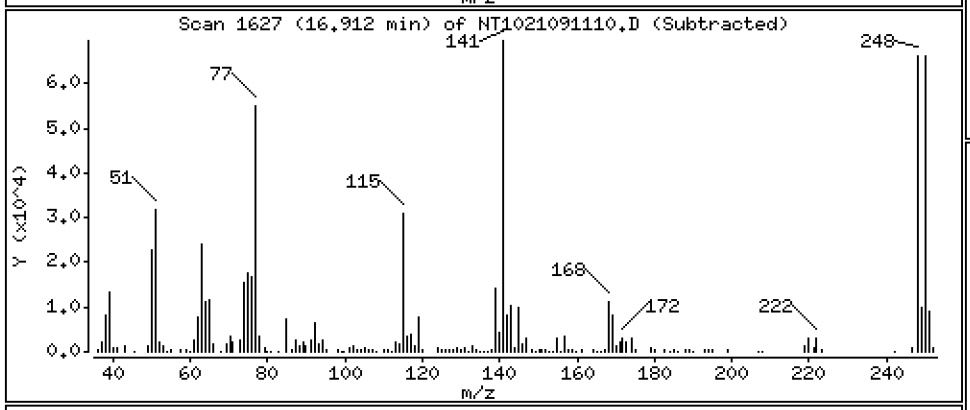
Column phase: ZB-5msi

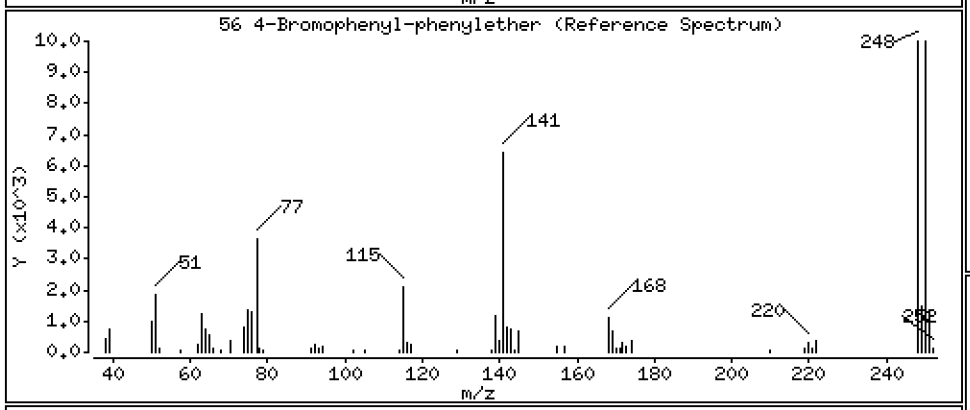
Column diameter: 0.25

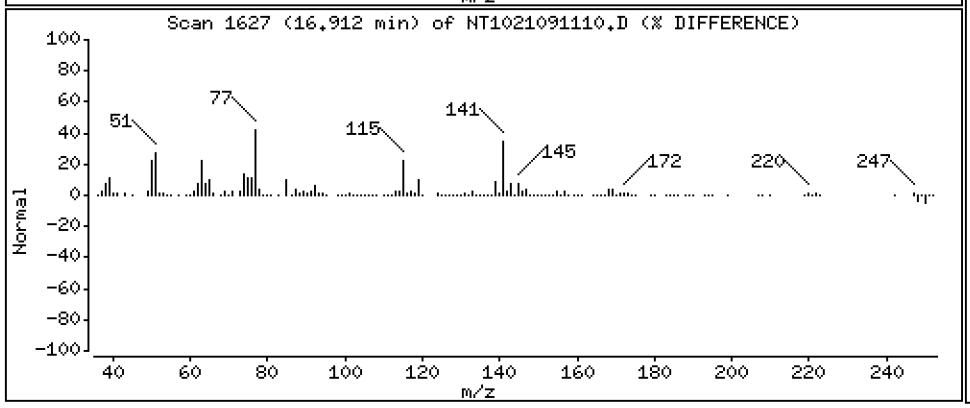
56 4-Bromophenyl-phenylether

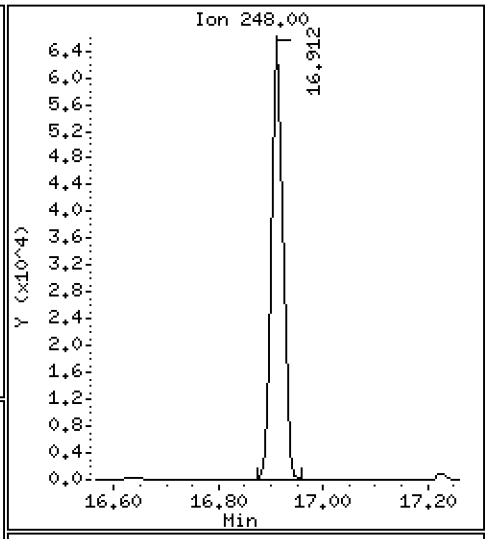
Concentration: 3.943 ug/mL

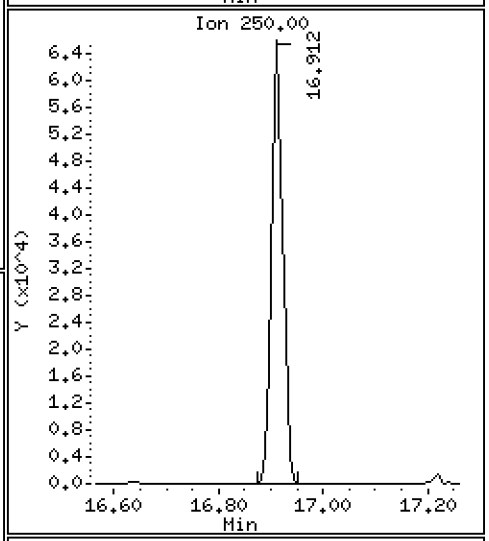


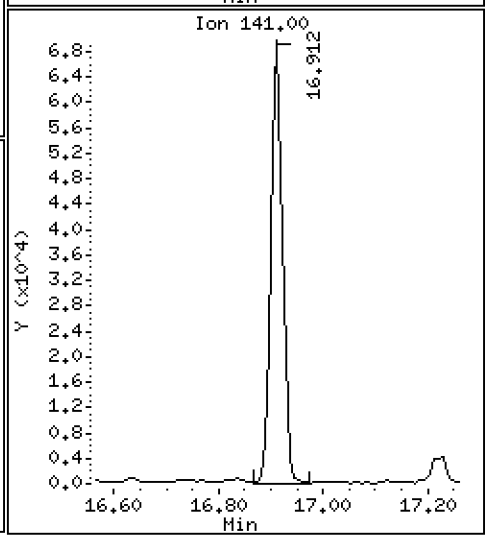












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

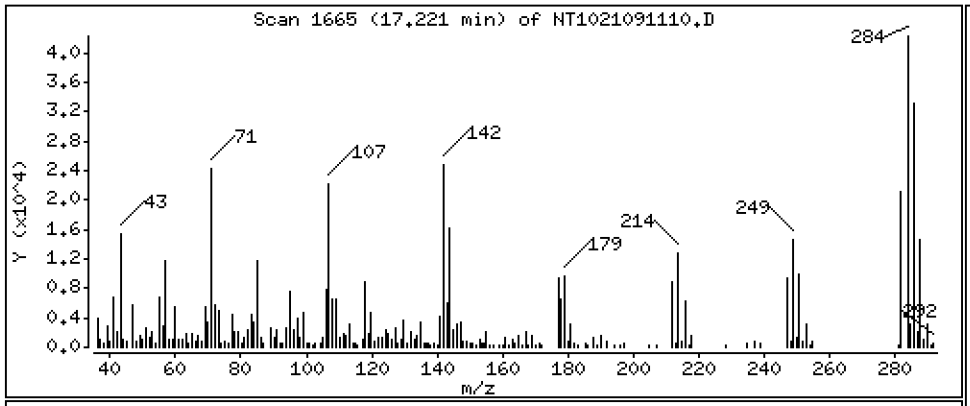
Operator: VTS

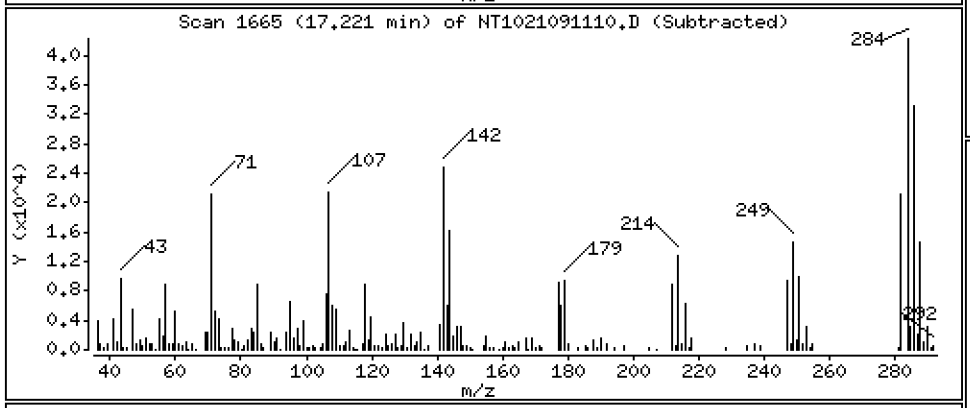
Column phase: ZB-5msi

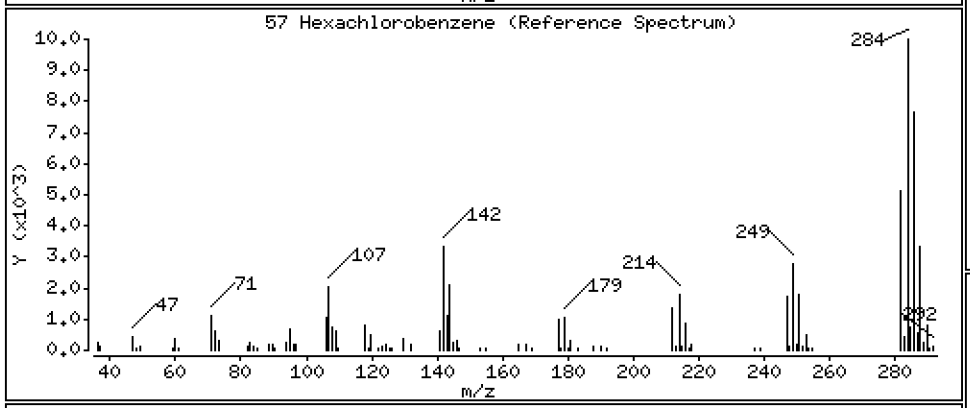
Column diameter: 0.25

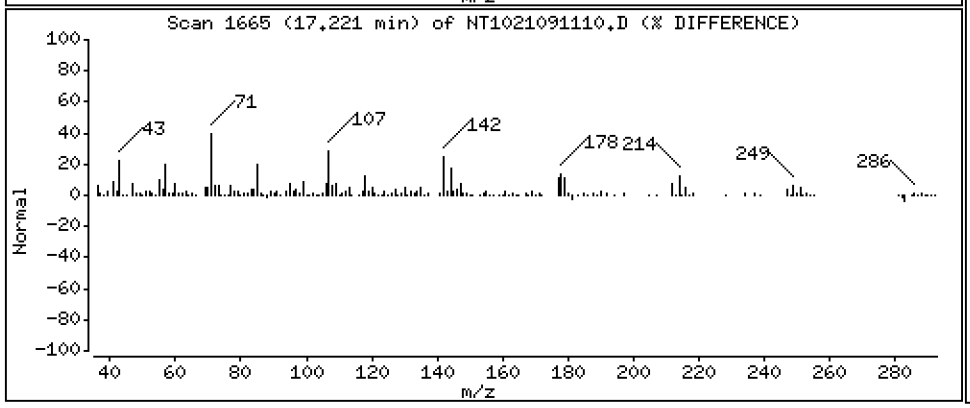
57 Hexachlorobenzene

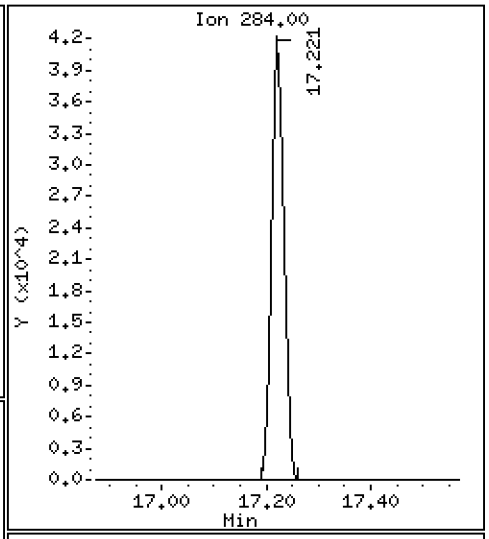
Concentration: 2.842 ug/mL

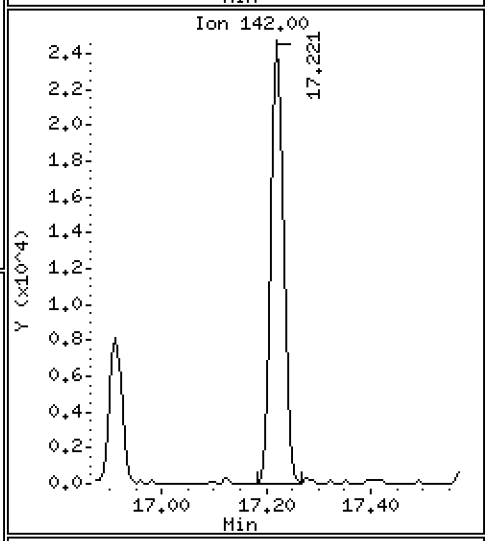


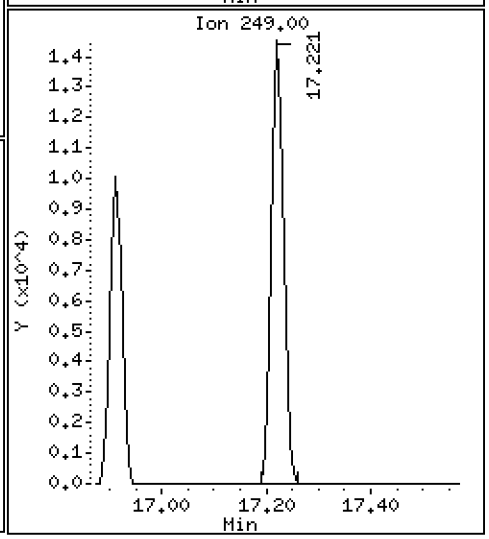












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

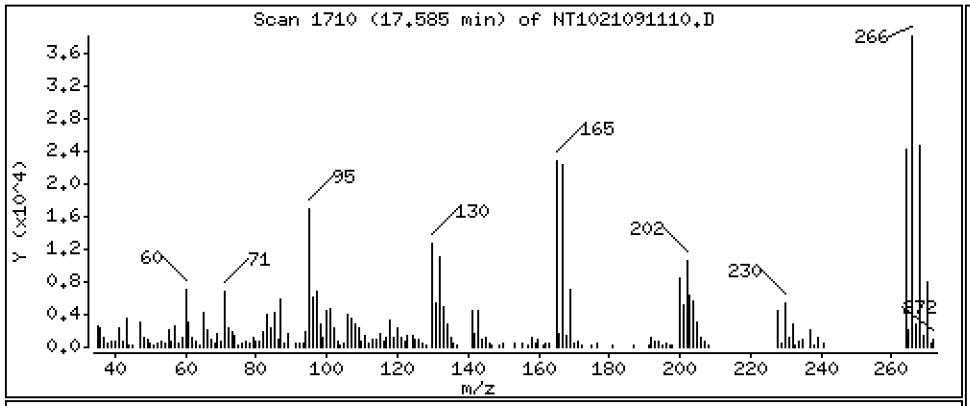
Operator: VTS

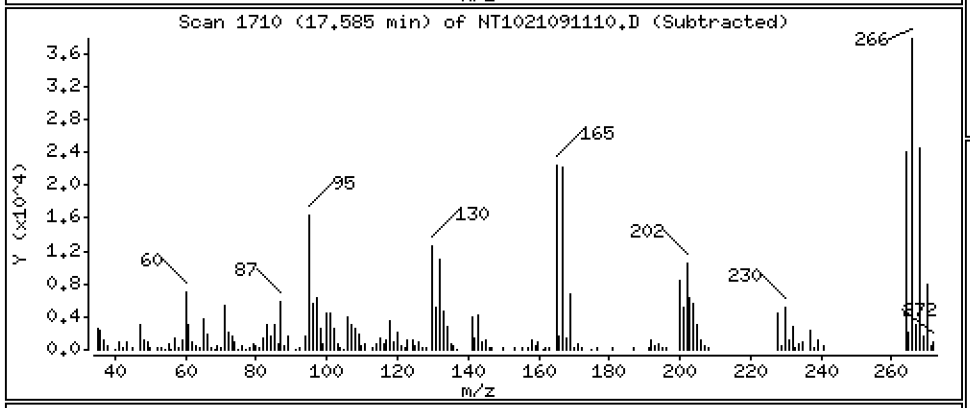
Column phase: ZB-5msi

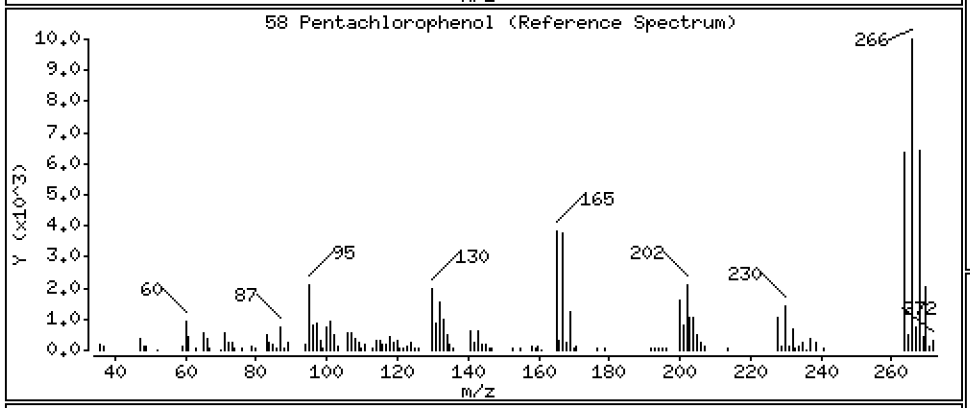
Column diameter: 0.25

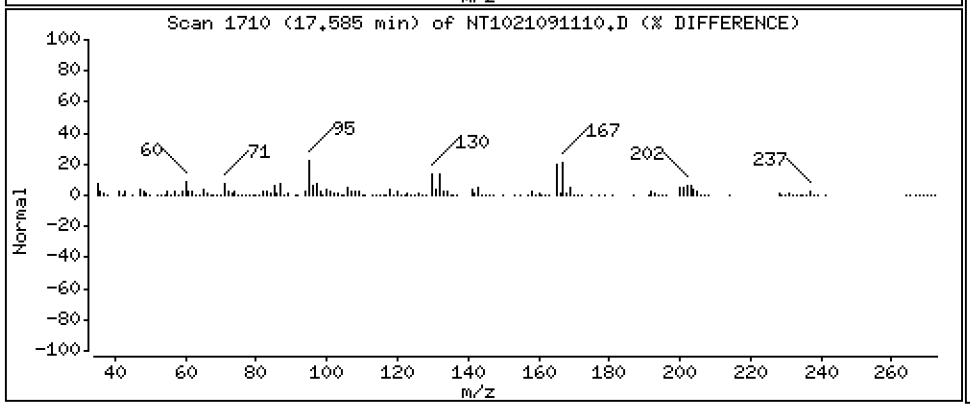
58 Pentachlorophenol

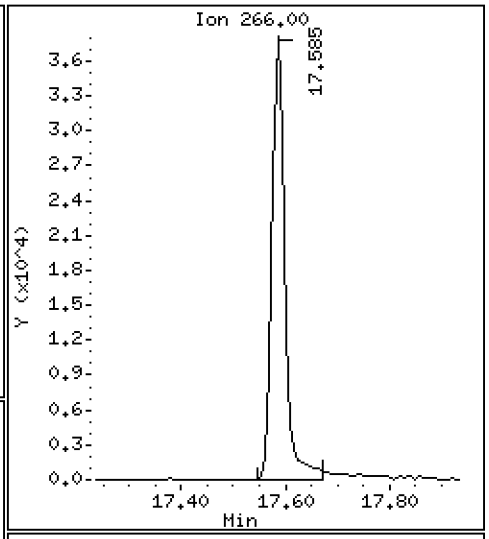
Concentration: 7.097 ug/mL

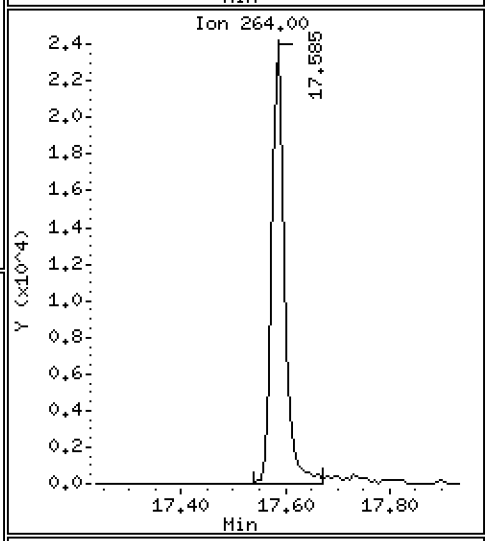


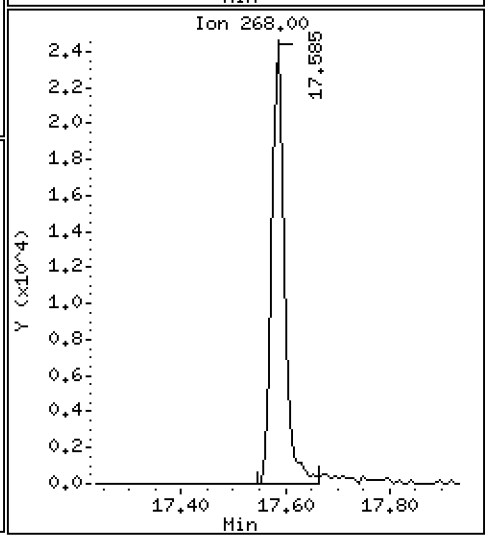












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

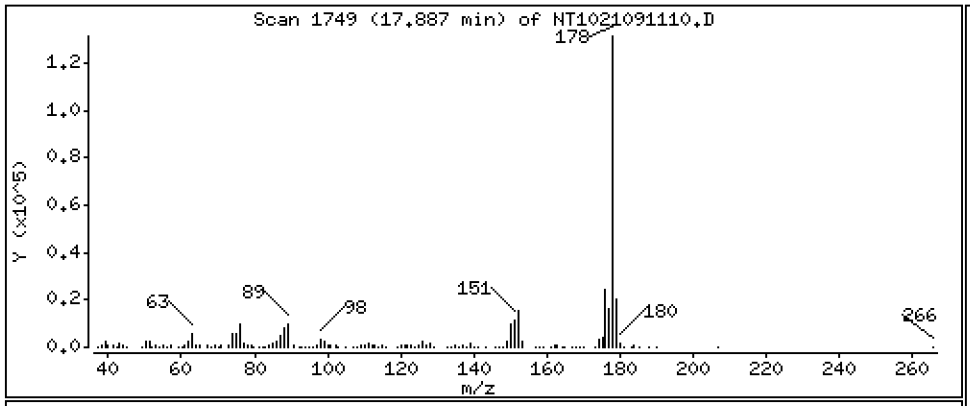
Operator: VTS

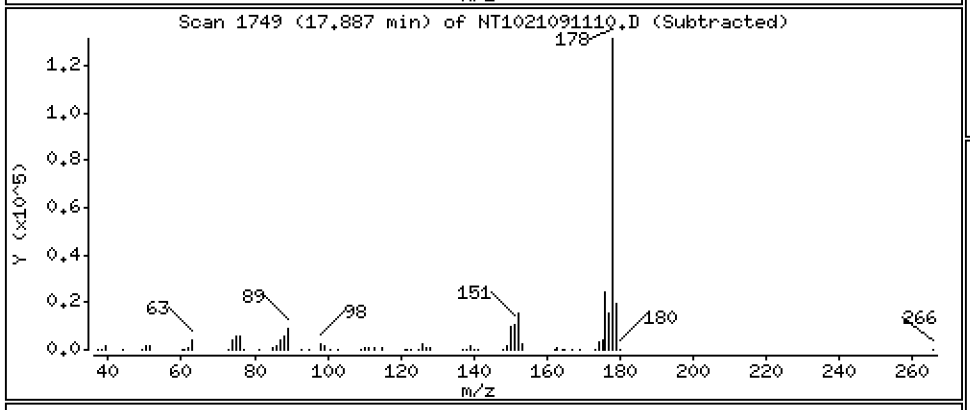
Column phase: ZB-5msi

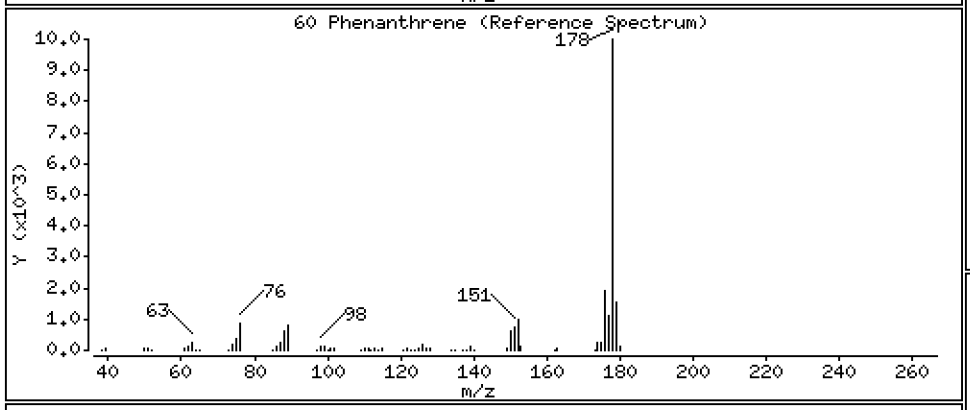
Column diameter: 0.25

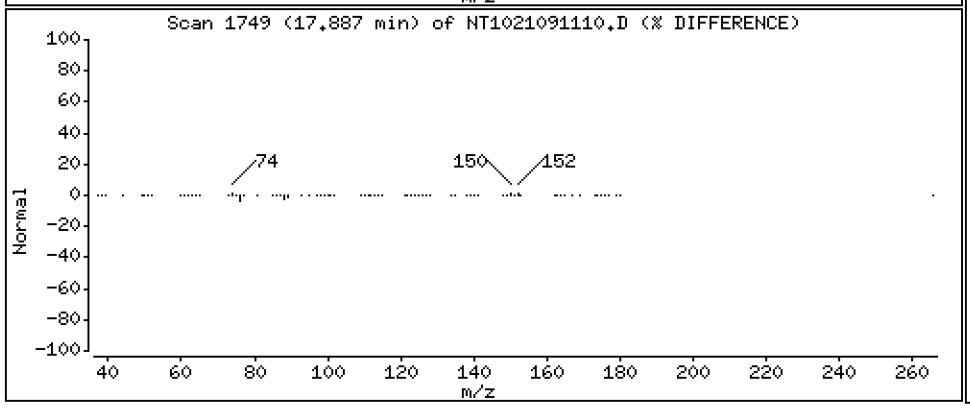
60 Phenanthrene

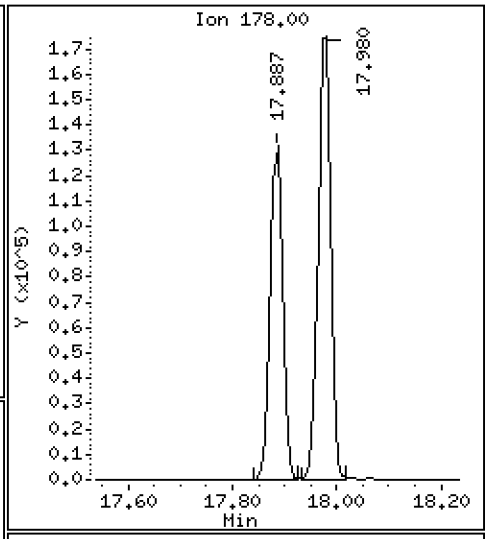
Concentration: 2.070 ug/mL

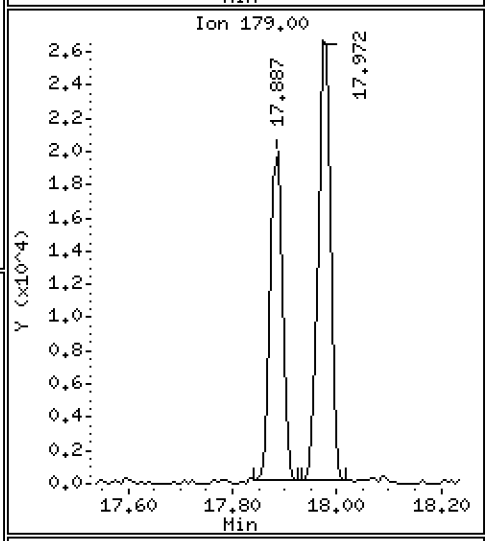


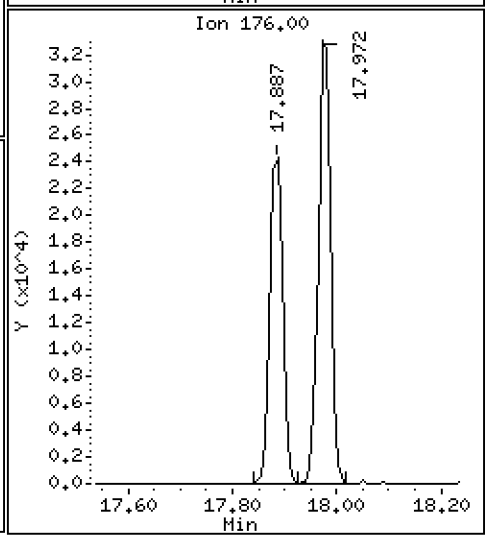












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

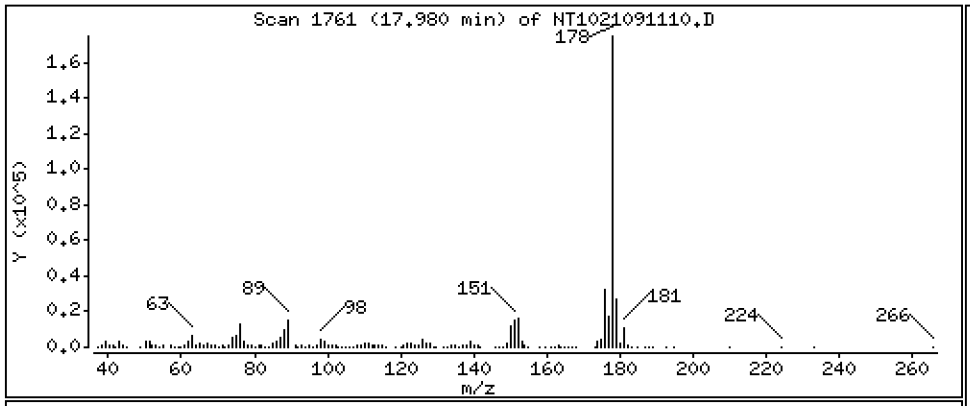
Operator: VTS

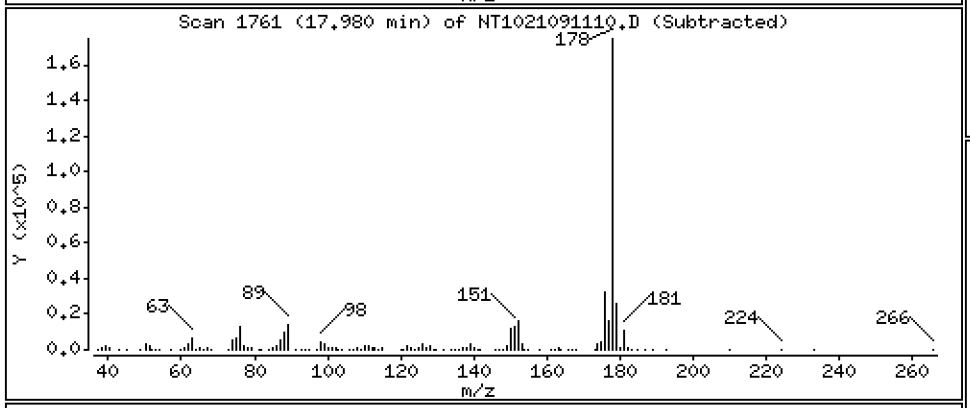
Column phase: ZB-5msi

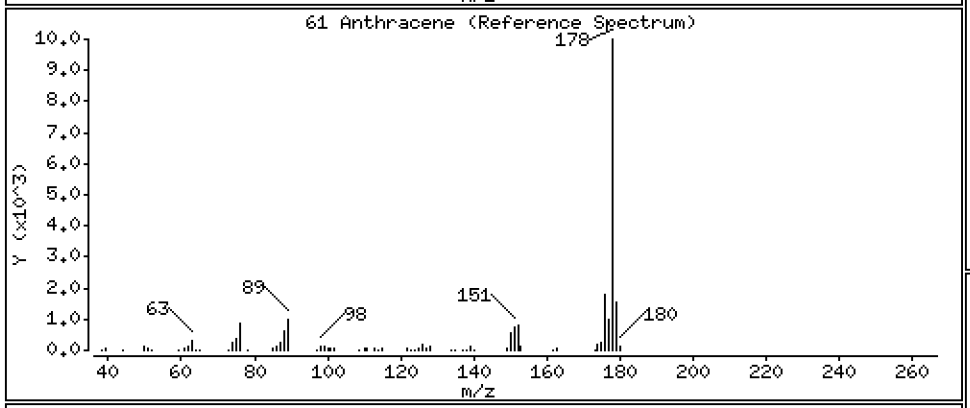
Column diameter: 0.25

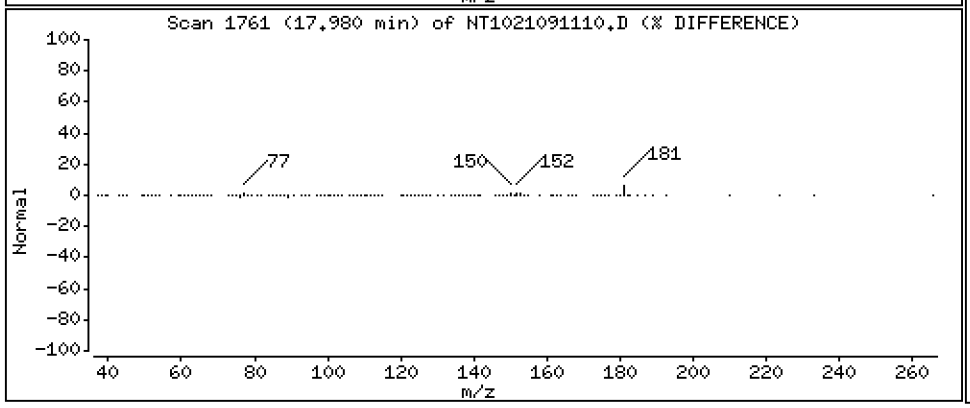
61 Anthracene

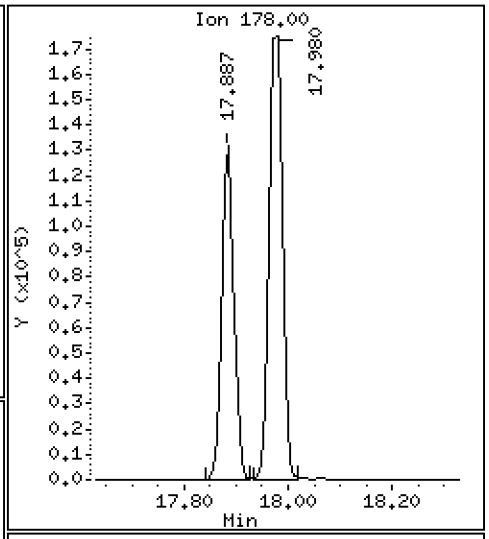
Concentration: 2.723 ug/mL

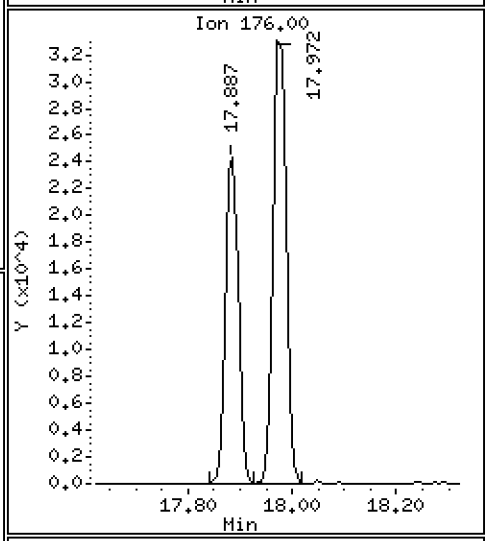


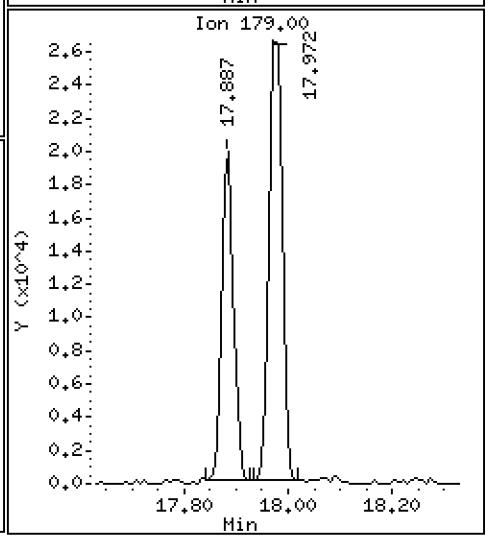












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091110.D

Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

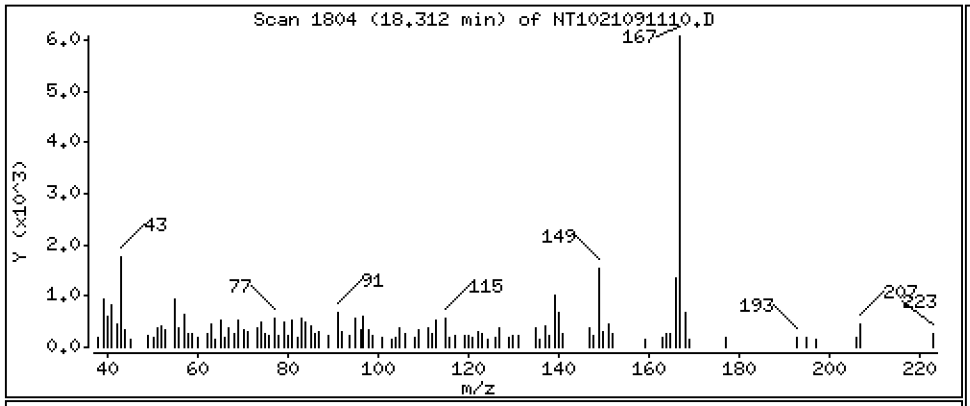
Operator: VTS

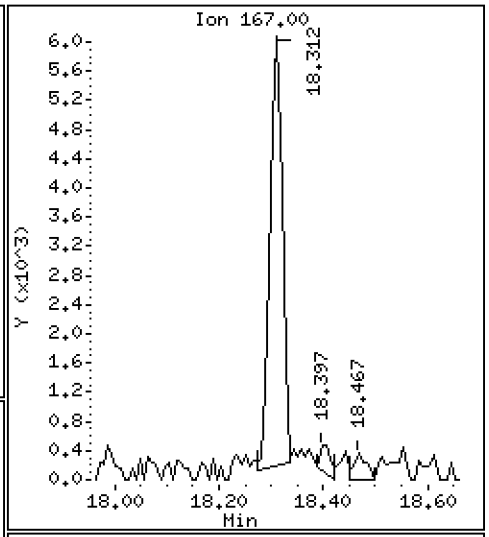
Column phase: ZB-5msi

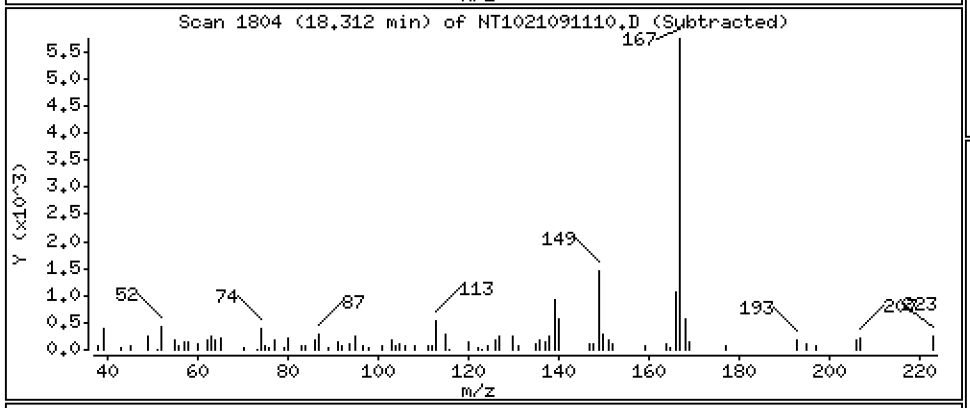
Column diameter: 0.25

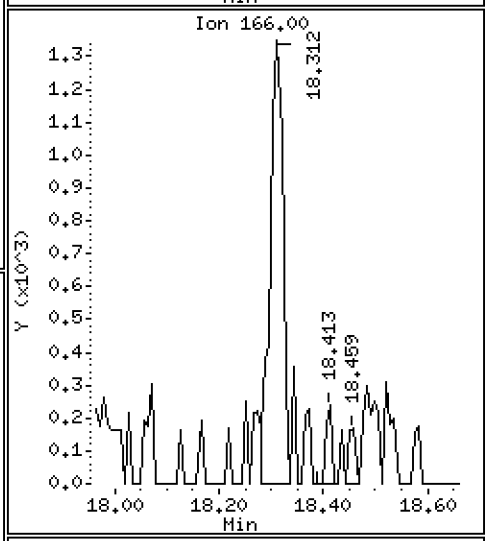
62 Carbazole

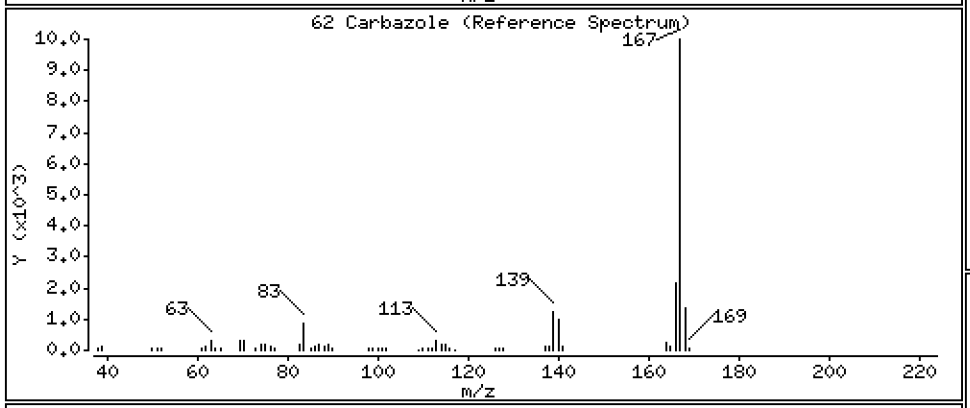
Concentration: 0.08281 ug/mL

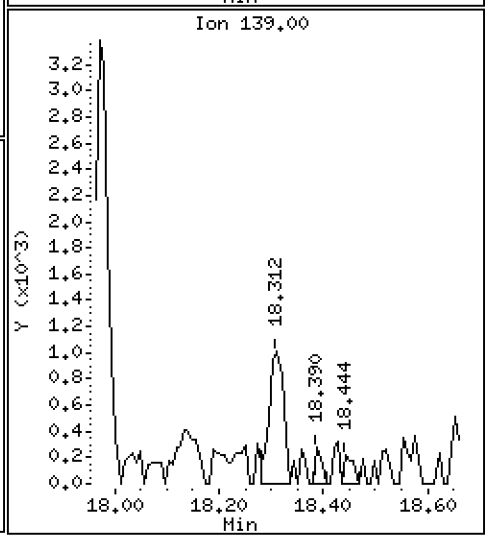


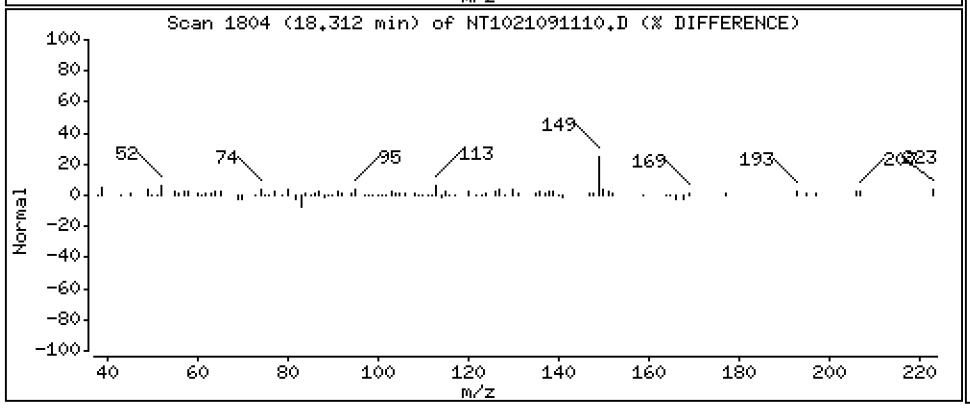












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

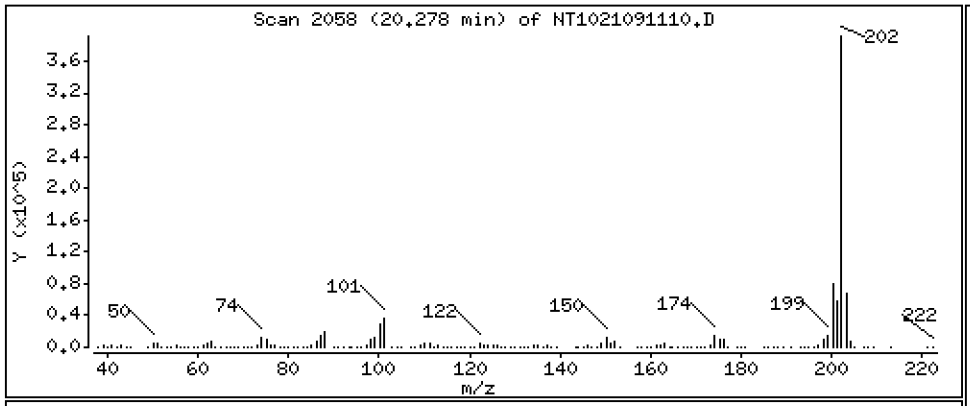
Operator: VTS

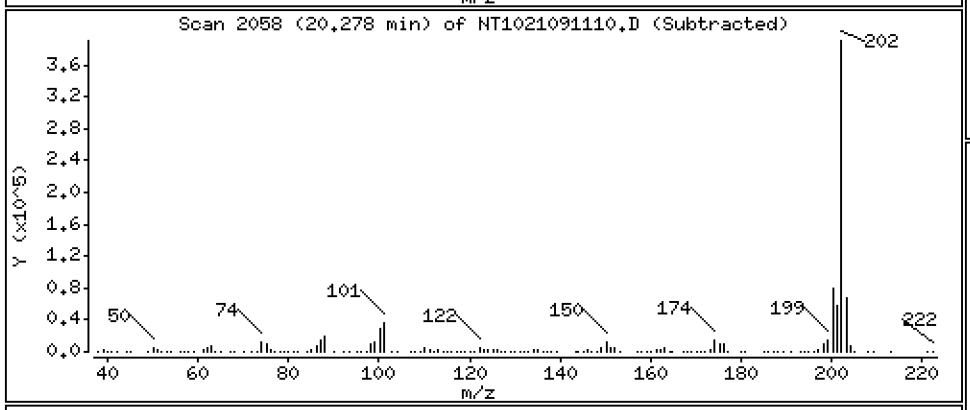
Column phase: ZB-5msi

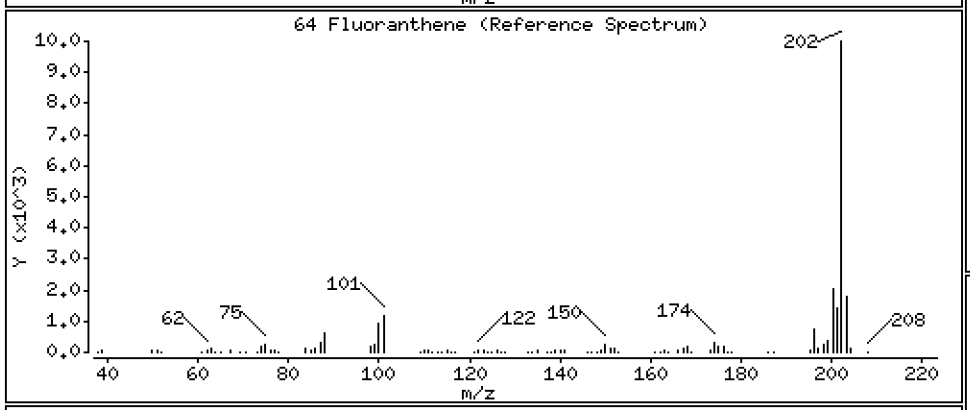
Column diameter: 0.25

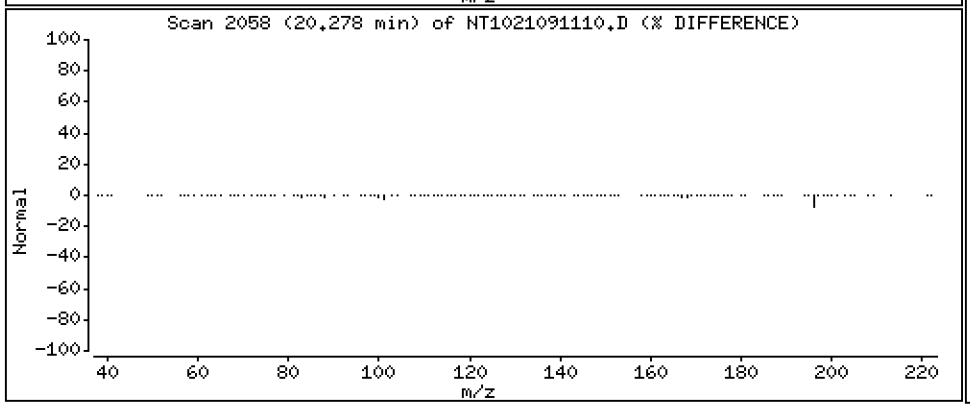
64 Fluoranthene

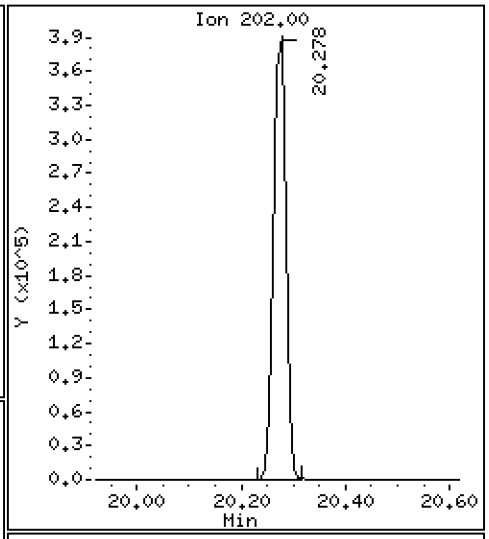
Concentration: 5.755 ug/mL

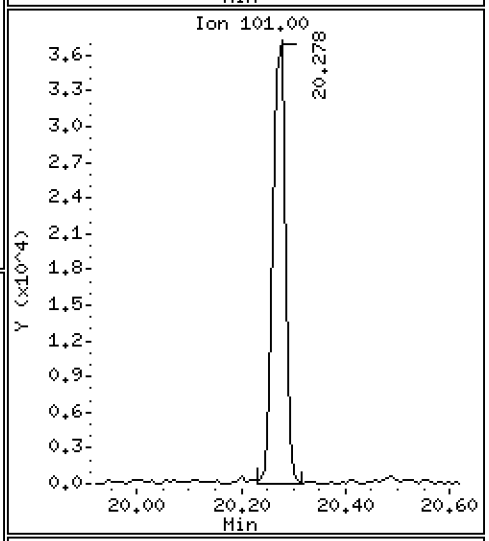


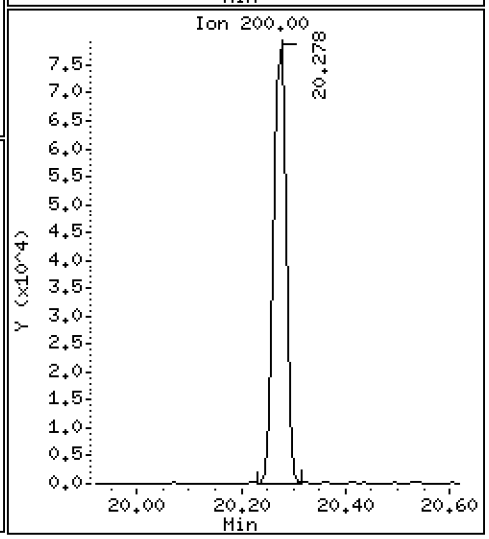












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

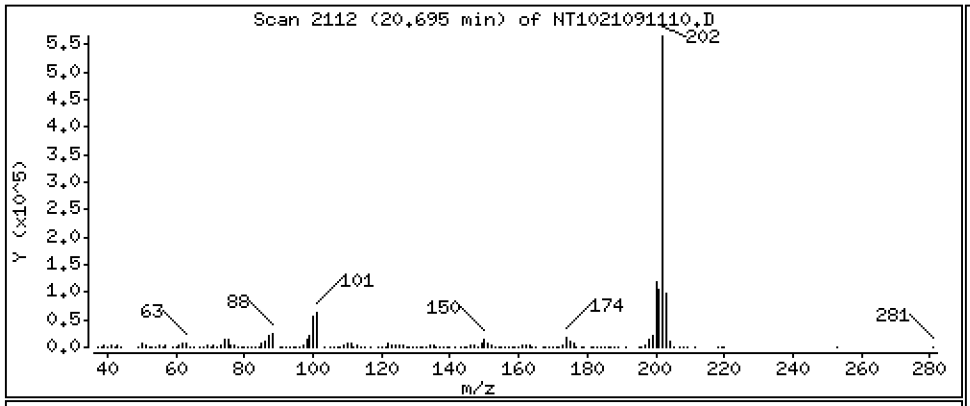
Operator: VTS

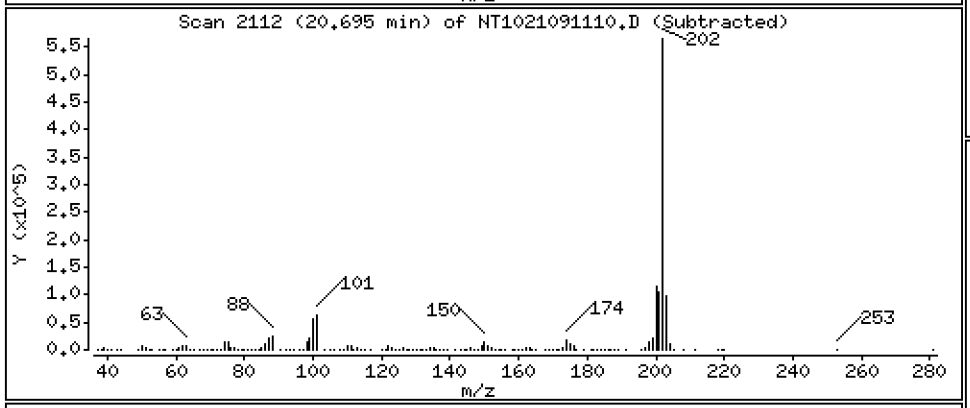
Column phase: ZB-5msi

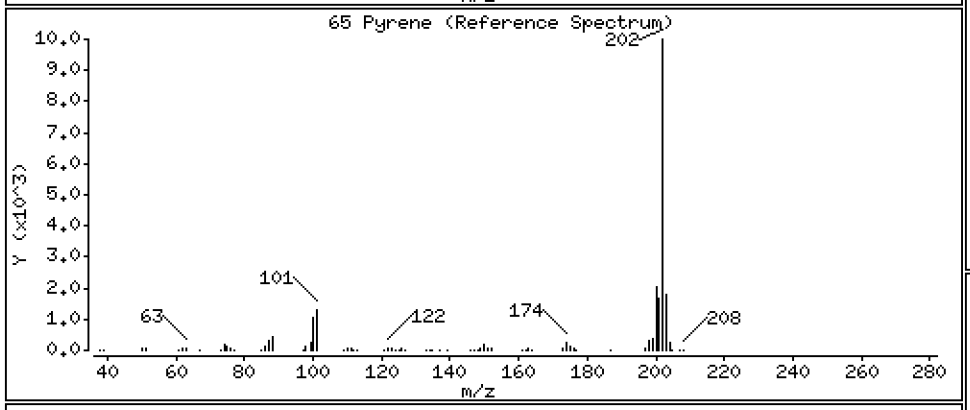
Column diameter: 0.25

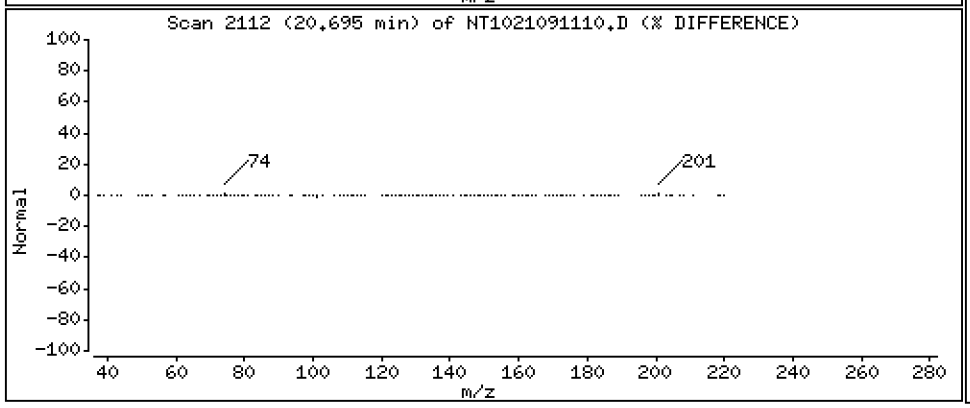
65 Pyrene

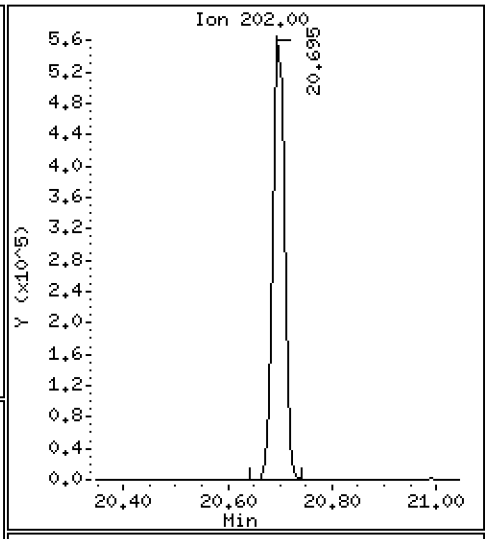
Concentration: 7.586 ug/mL

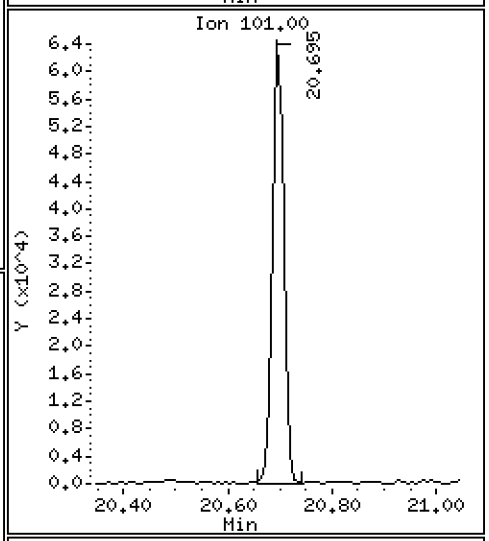


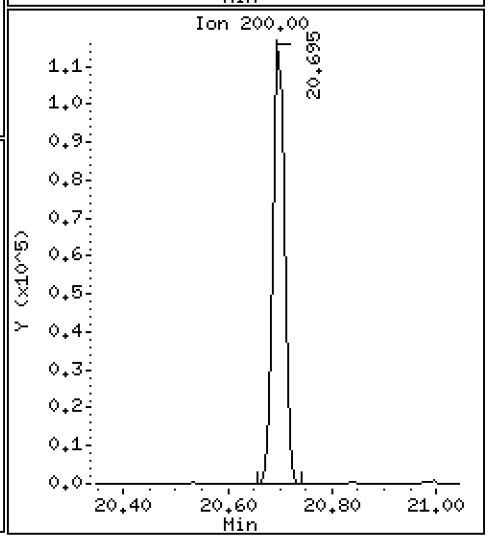












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

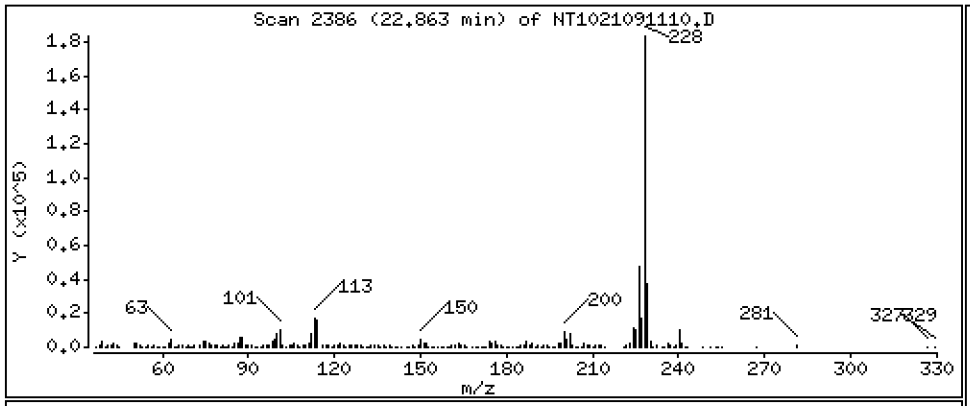
Operator: VTS

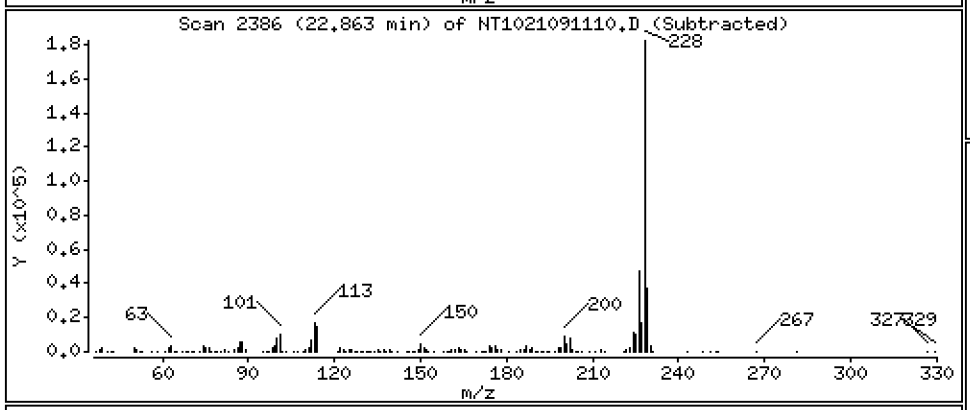
Column phase: ZB-5msi

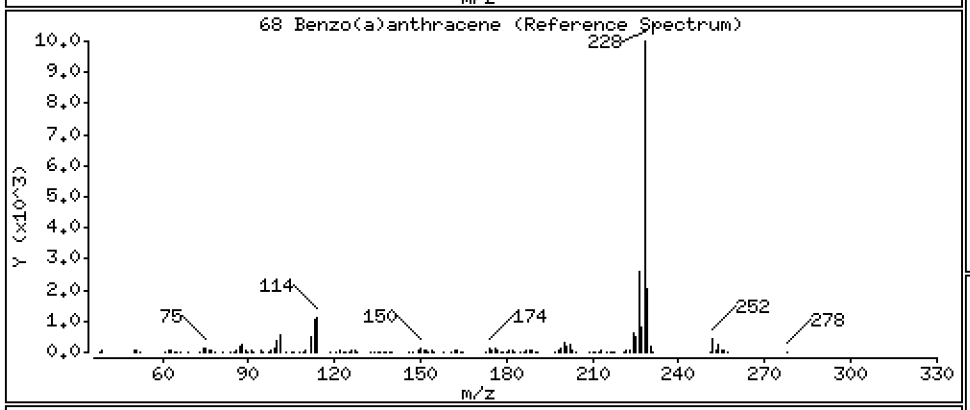
Column diameter: 0.25

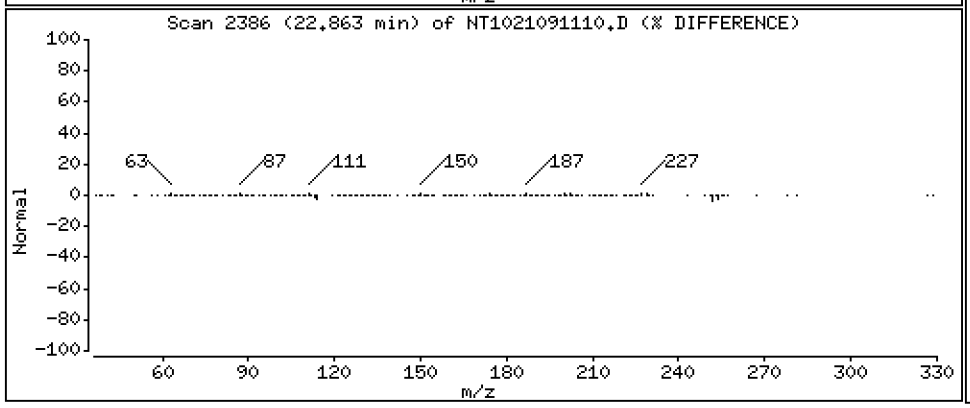
68 Benzo(a)anthracene

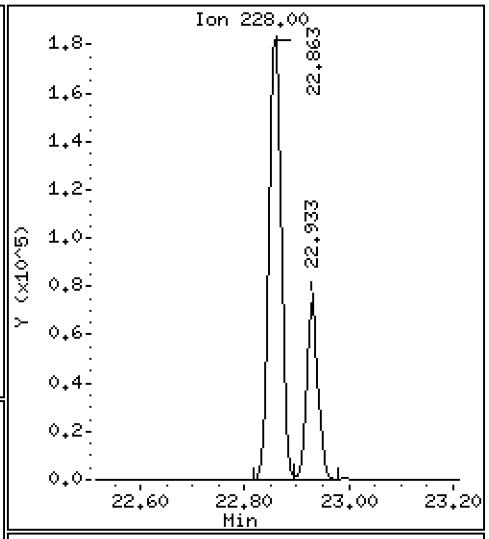
Concentration: 3.419 ug/mL

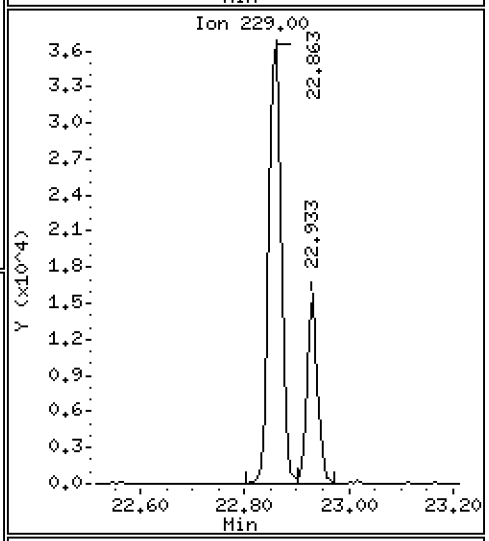


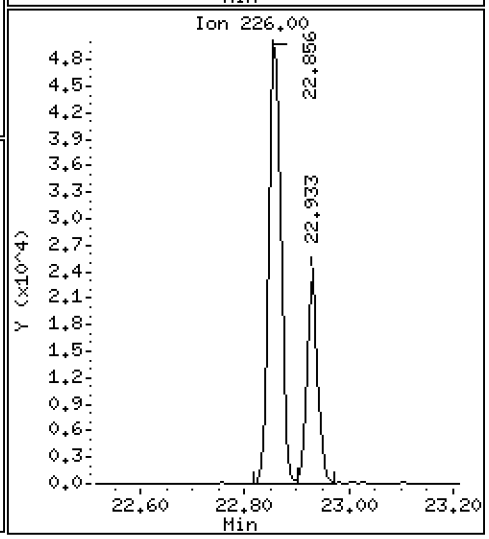












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

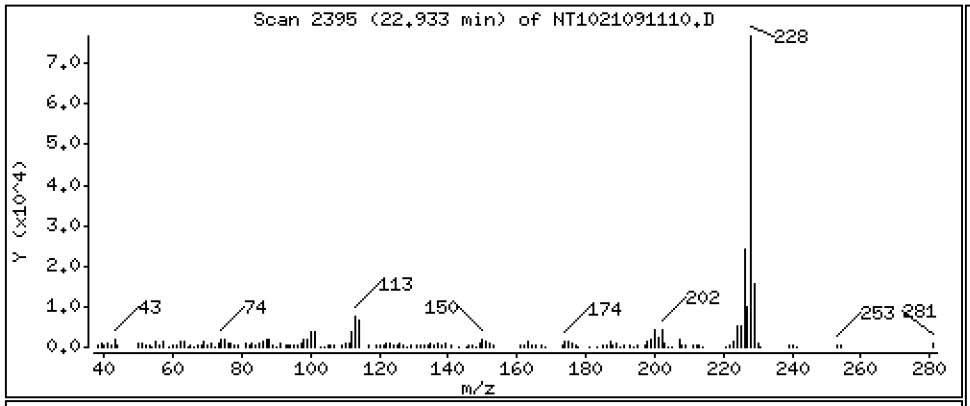
Operator: VTS

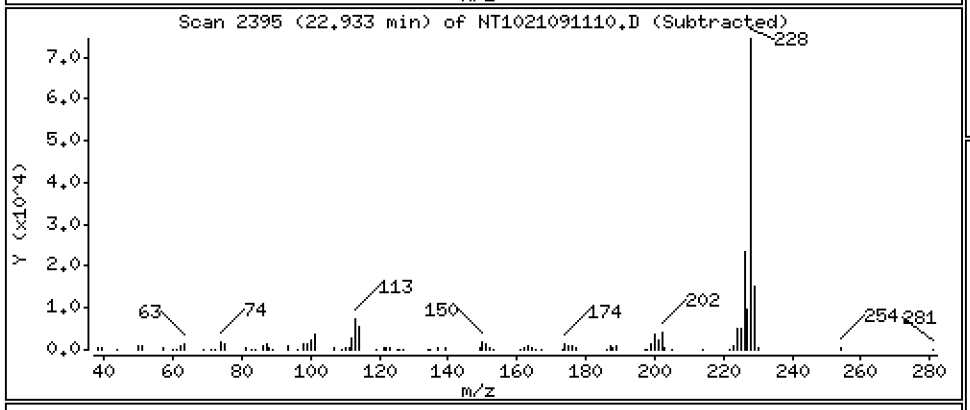
Column phase: ZB-5msi

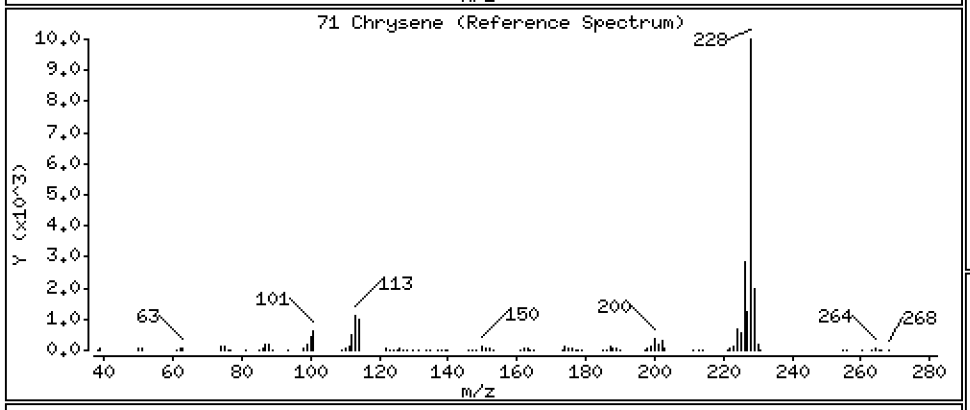
Column diameter: 0.25

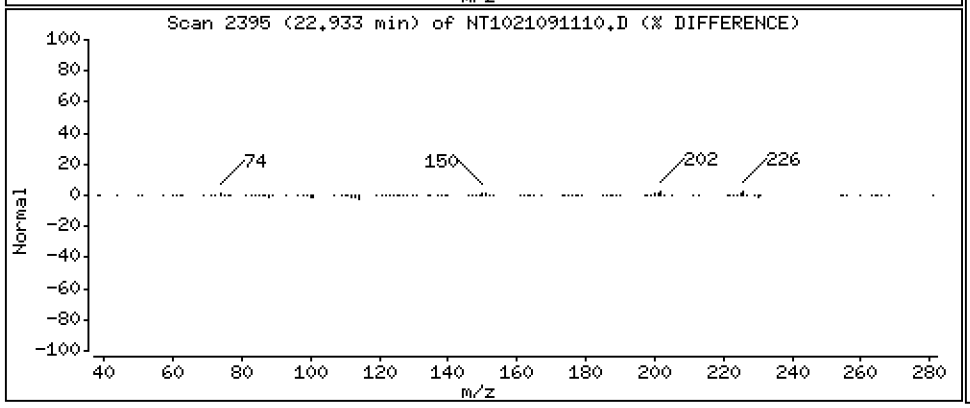
71 Chrysene

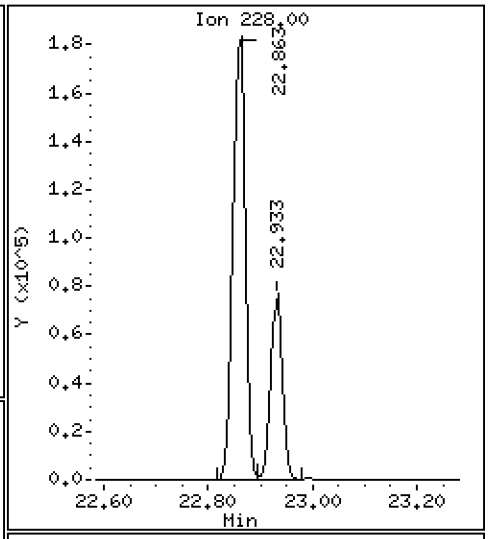
Concentration: 1.666 ug/mL

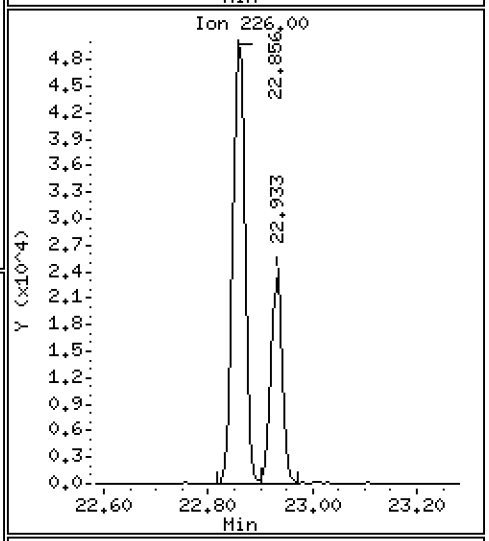


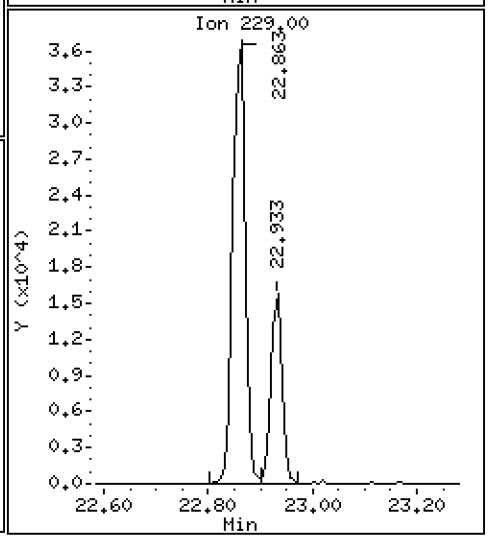












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

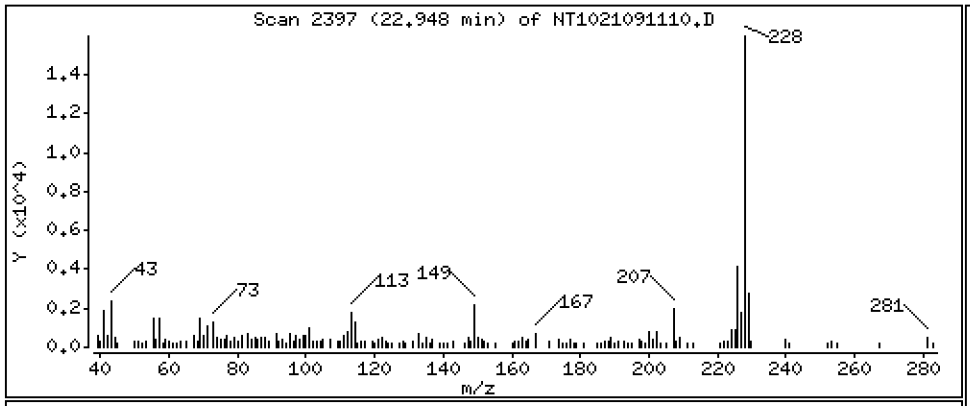
Operator: VTS

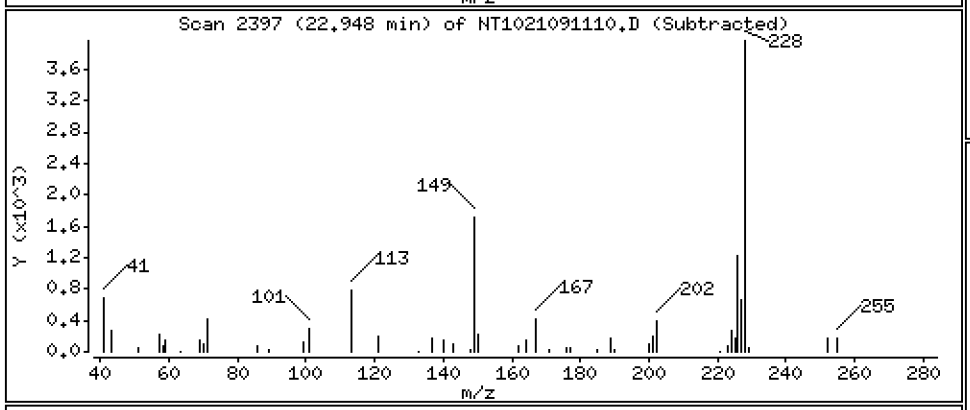
Column phase: ZB-5msi

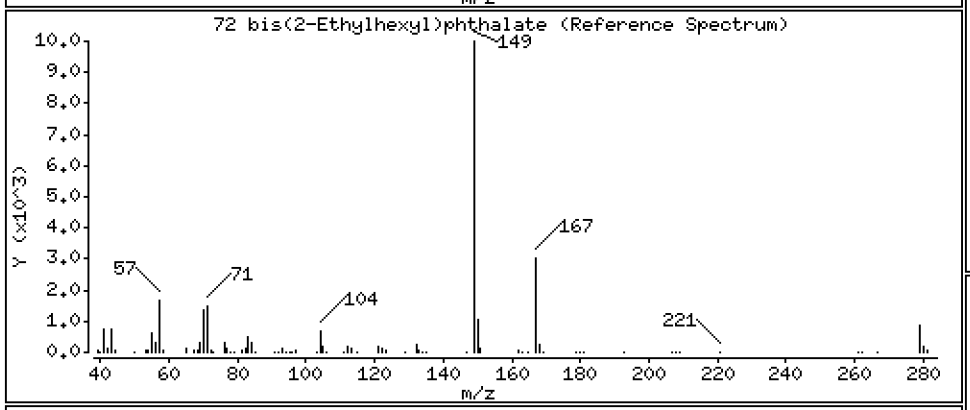
Column diameter: 0.25

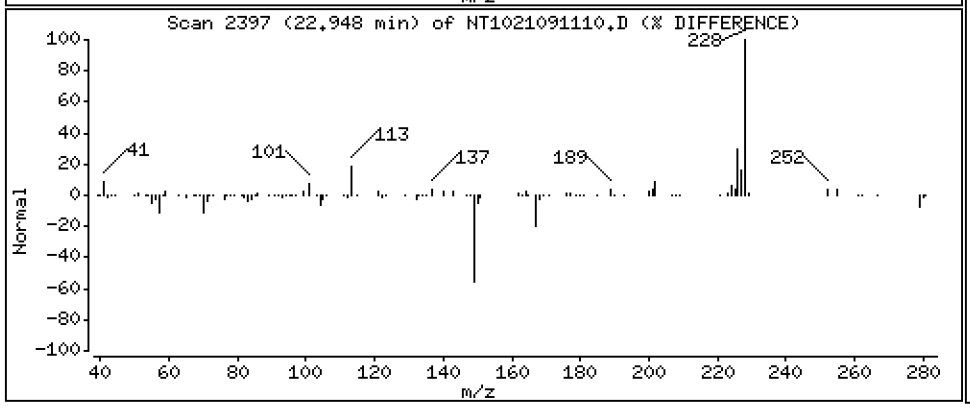
72 bis(2-Ethylhexyl)phthalate

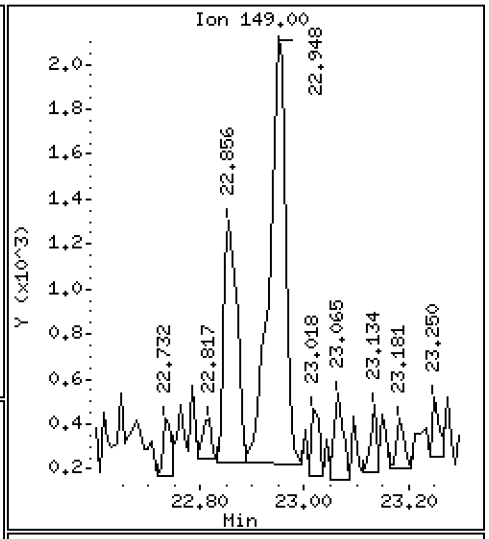
Concentration: 0.07234 ug/mL

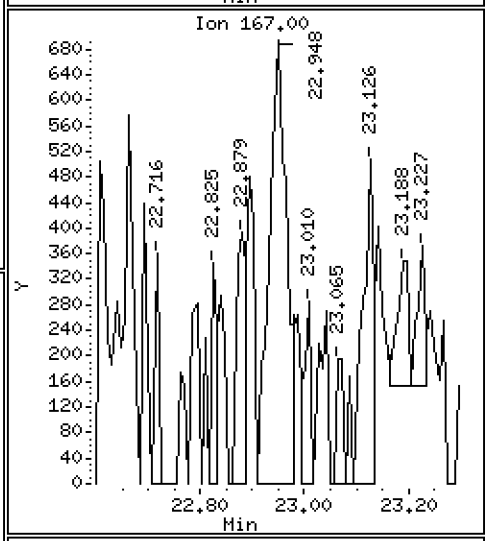


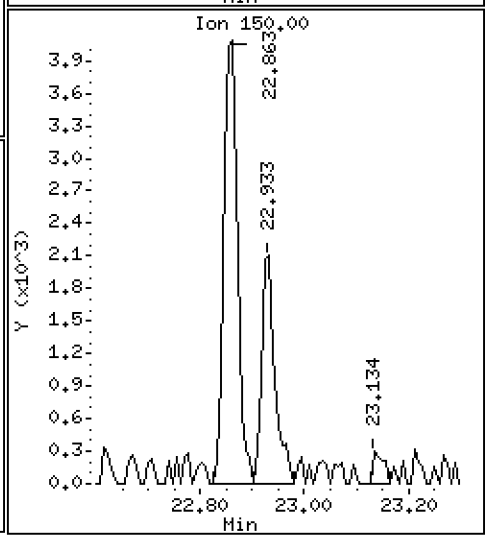












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Date : 11-SEP-2021 16:11

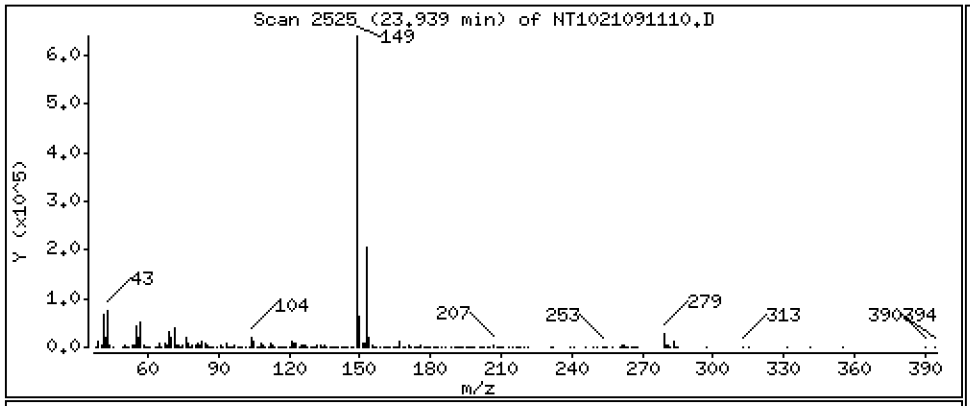
Client ID: Instrument: nt10.i

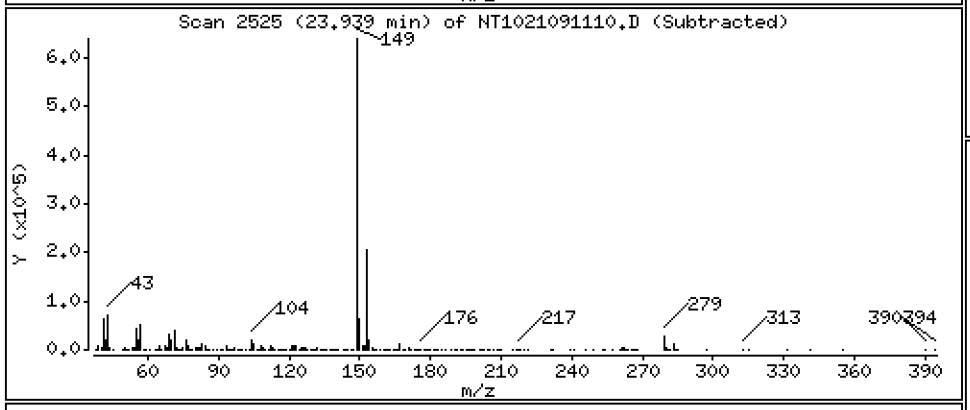
Sample Info: BJH0655-SRM1

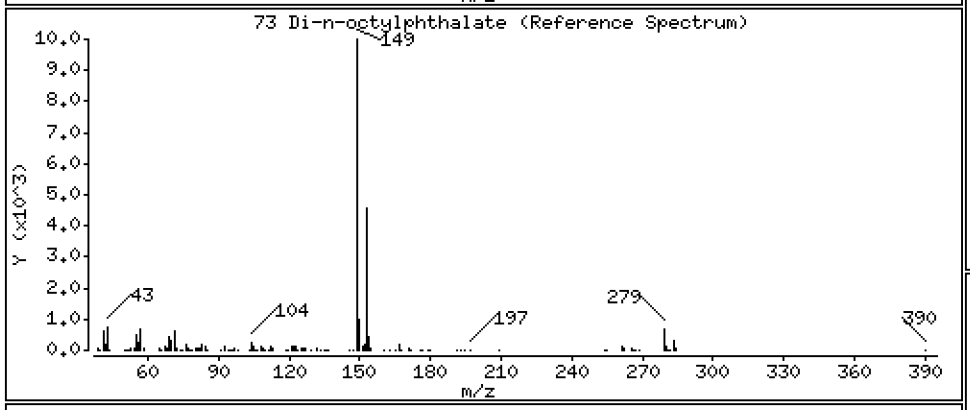
Operator: VTS

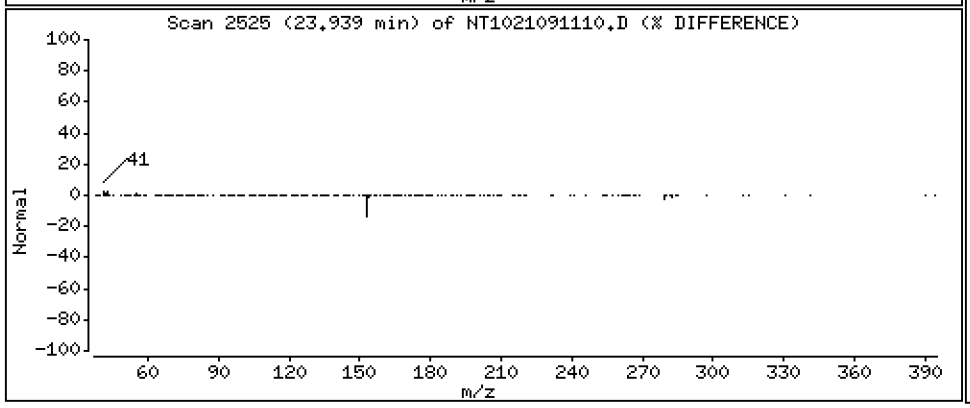
Column phase: ZB-5msi Column diameter: 0.25

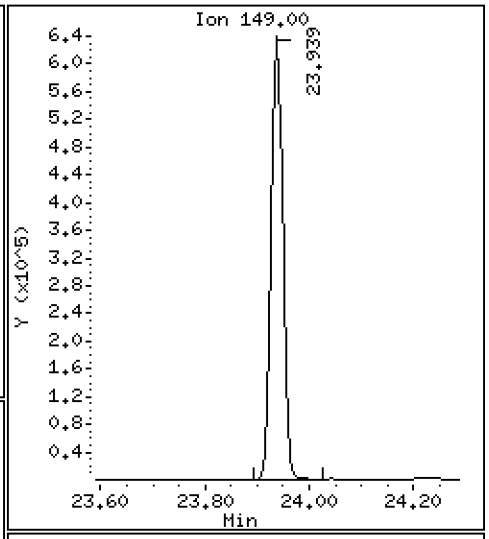
73 Di-n-octylphthalate Concentration: 7.527 ug/mL

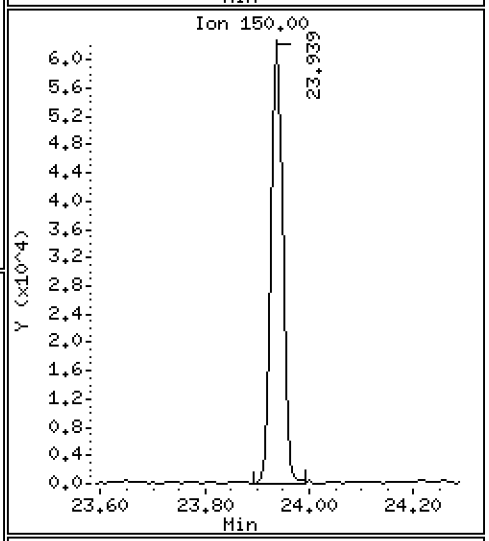


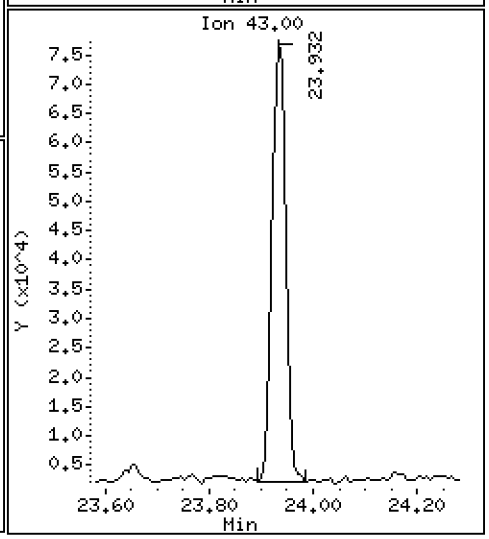












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

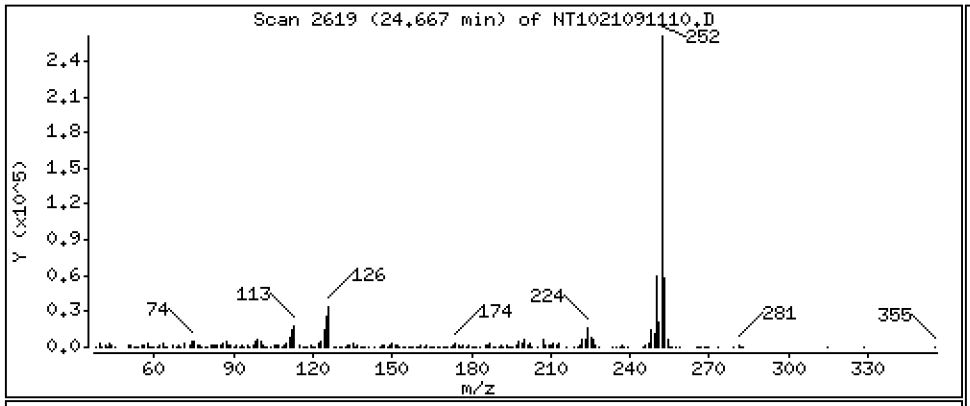
Operator: VTS

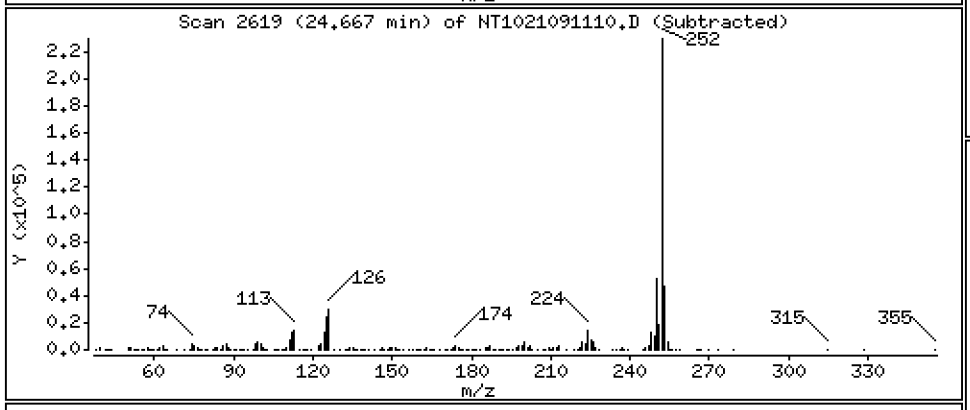
Column phase: ZB-5msi

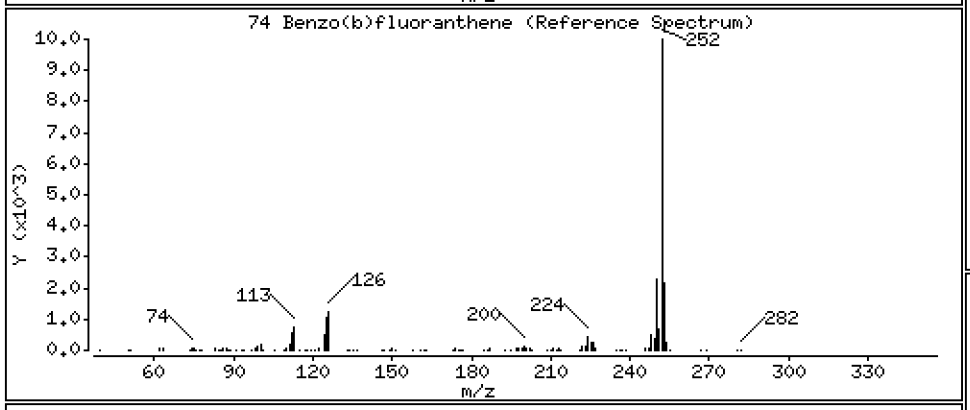
Column diameter: 0.25

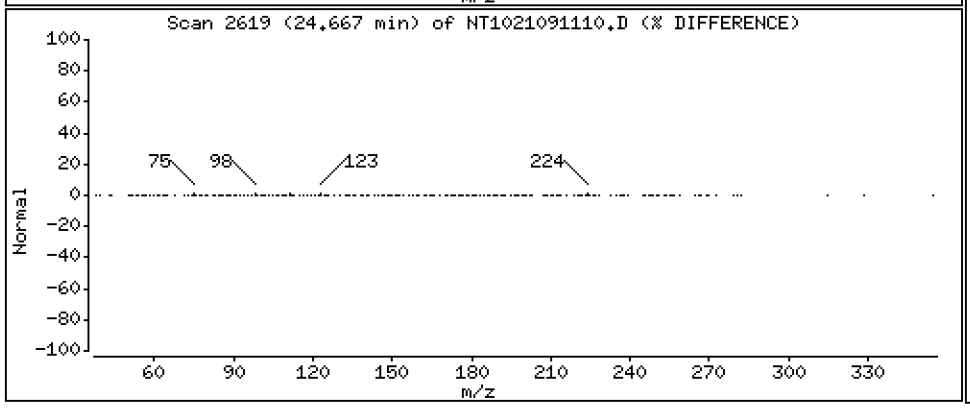
74 Benzo(b)fluoranthene

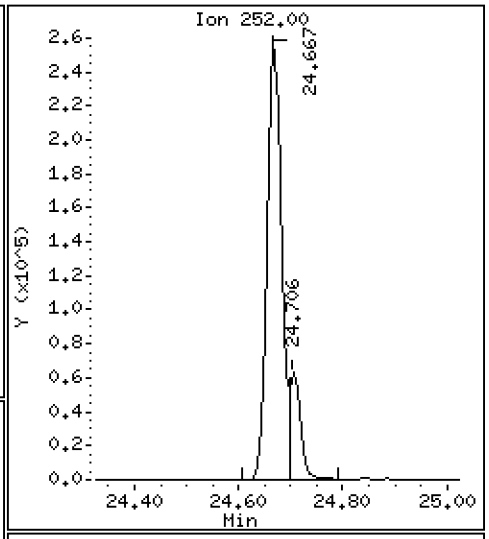
Concentration: 6.738 ug/mL

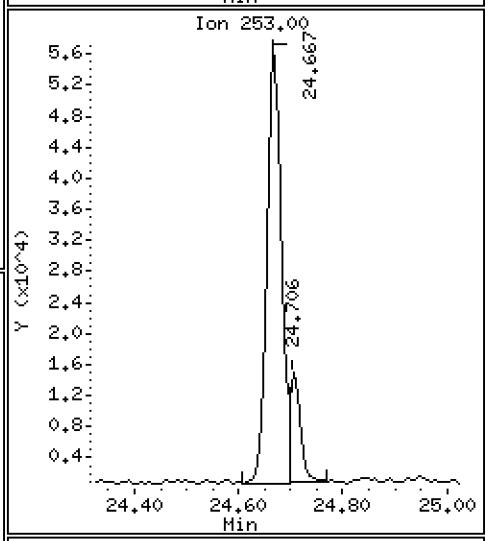


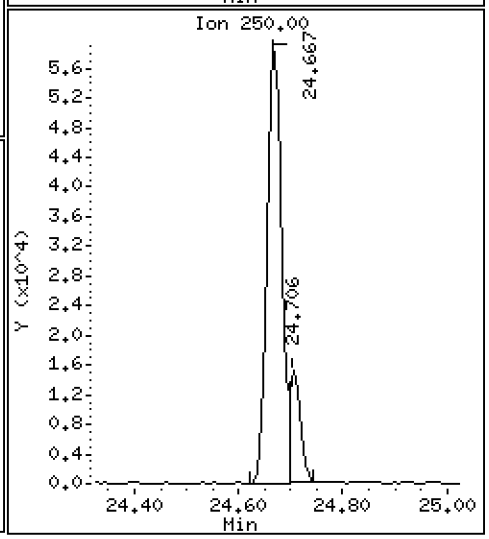












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

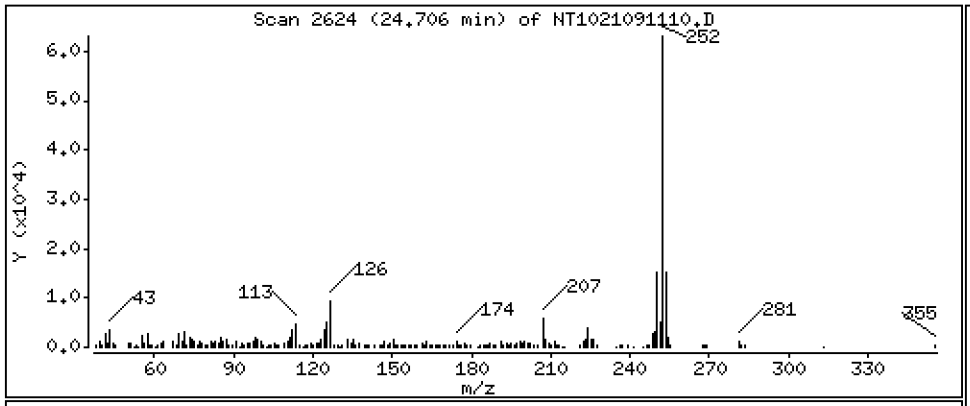
Operator: VTS

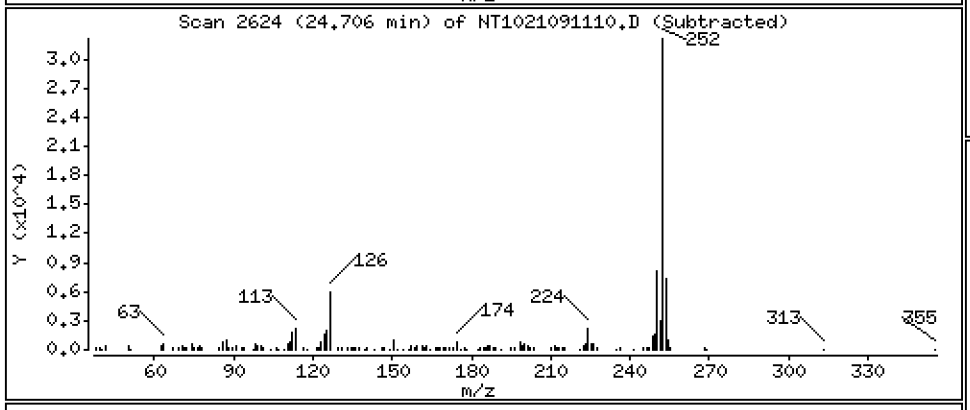
Column phase: ZB-5msi

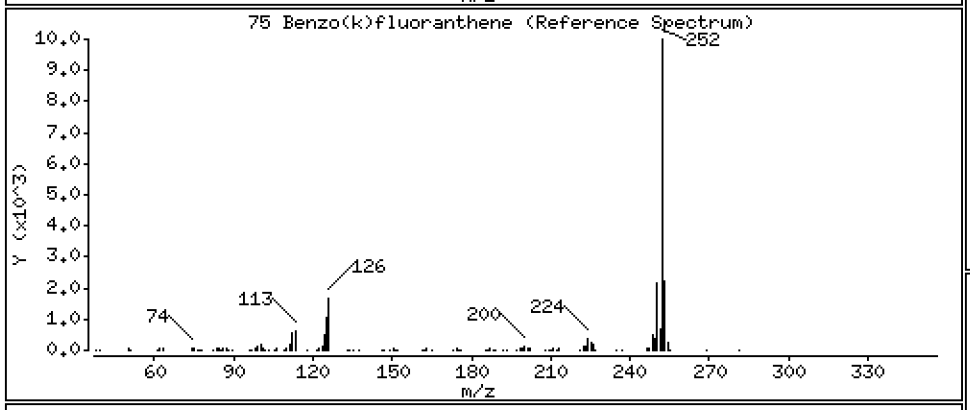
Column diameter: 0.25

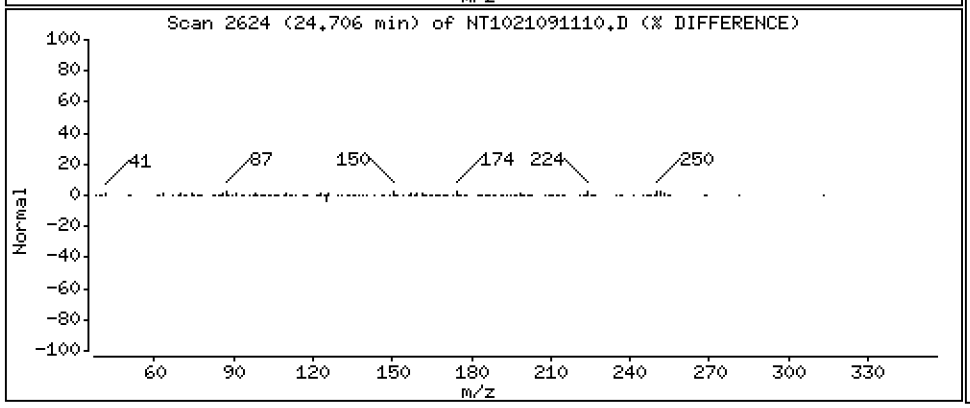
75 Benzo(k)fluoranthene

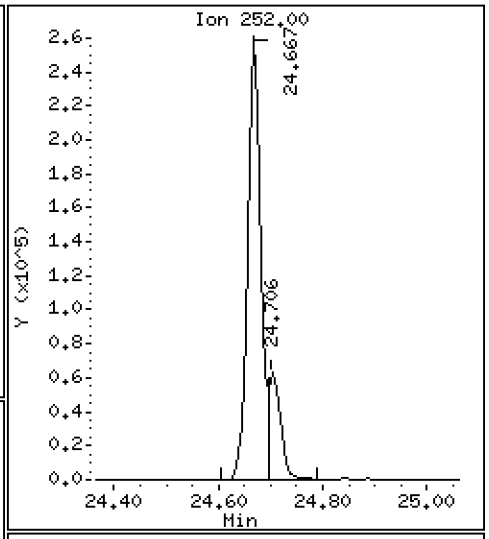
Concentration: 1.408 ug/mL

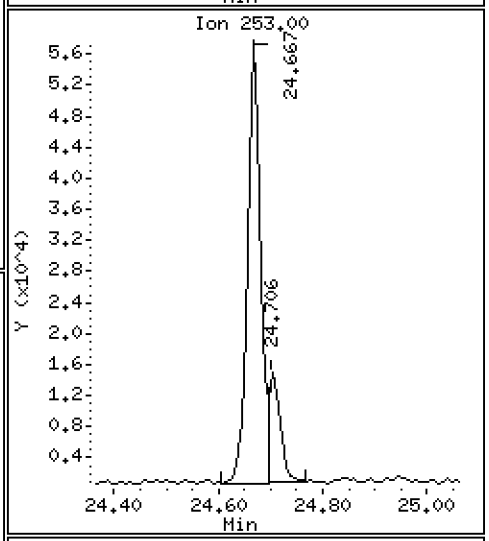


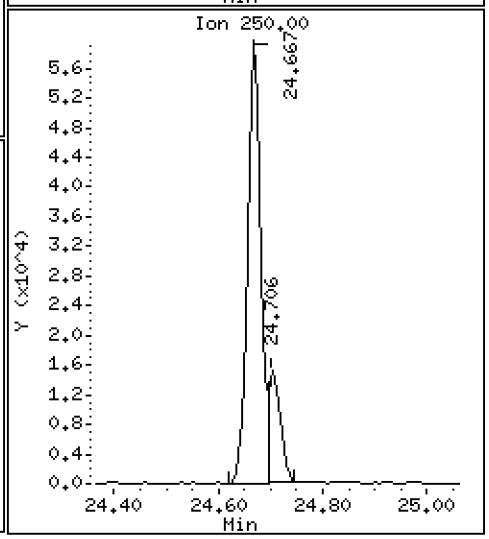












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

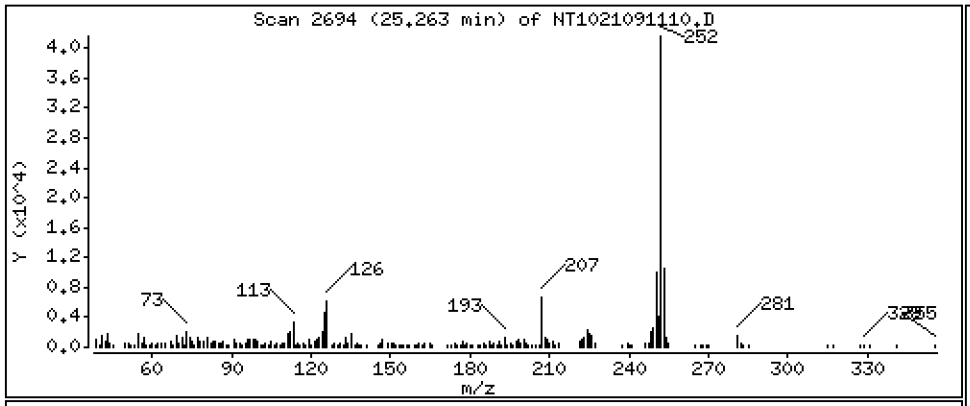
Operator: VTS

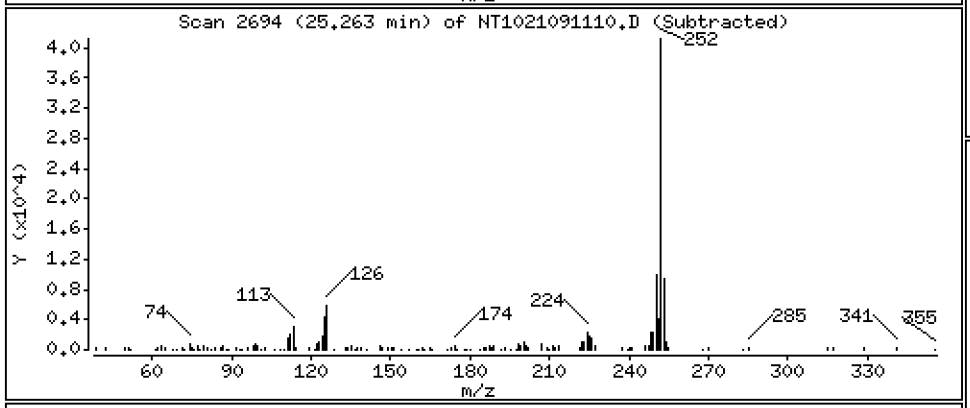
Column phase: ZB-5msi

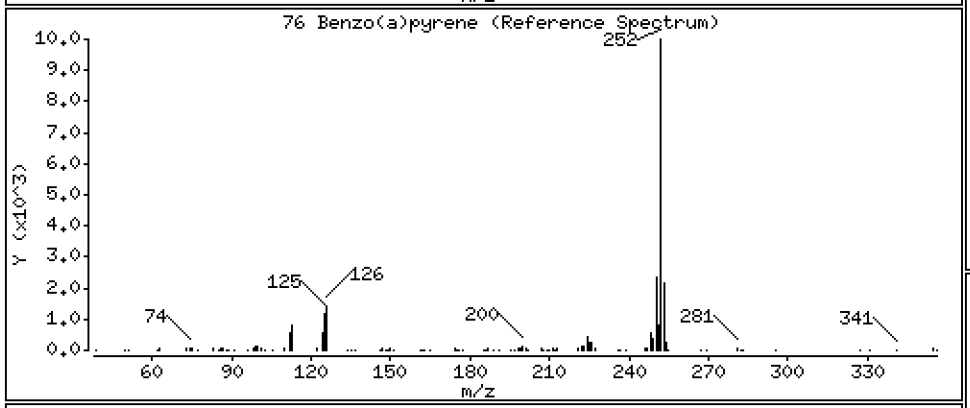
Column diameter: 0.25

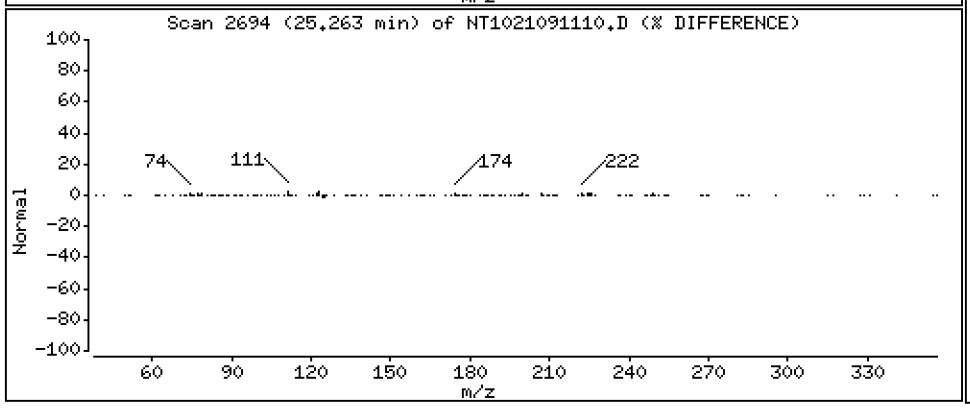
76 Benzo(a)pyrene

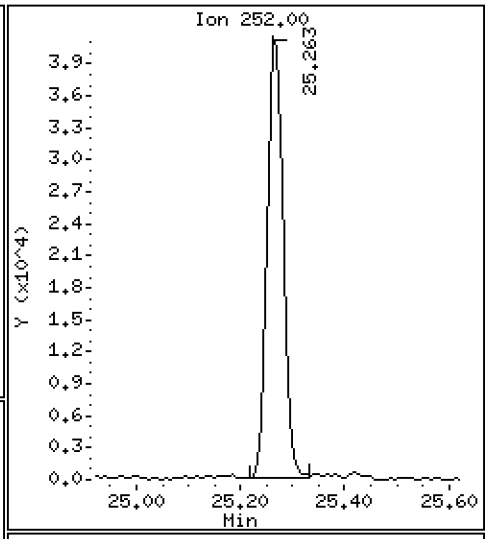
Concentration: 1.342 ug/mL

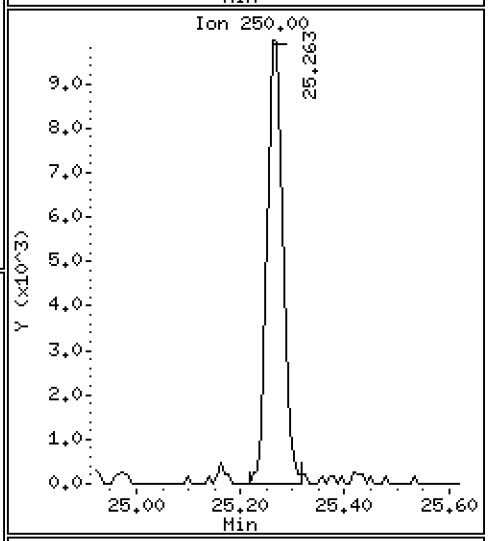


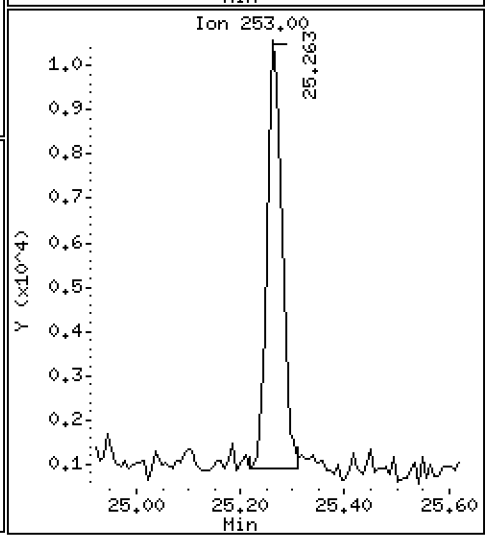












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

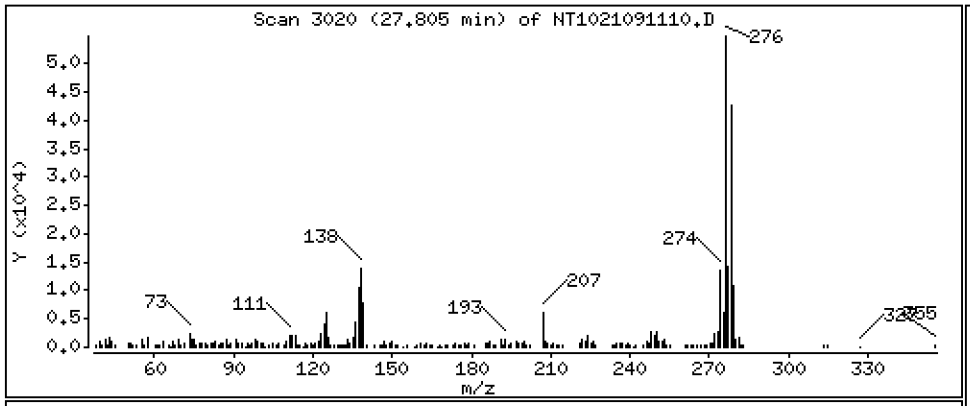
Operator: VTS

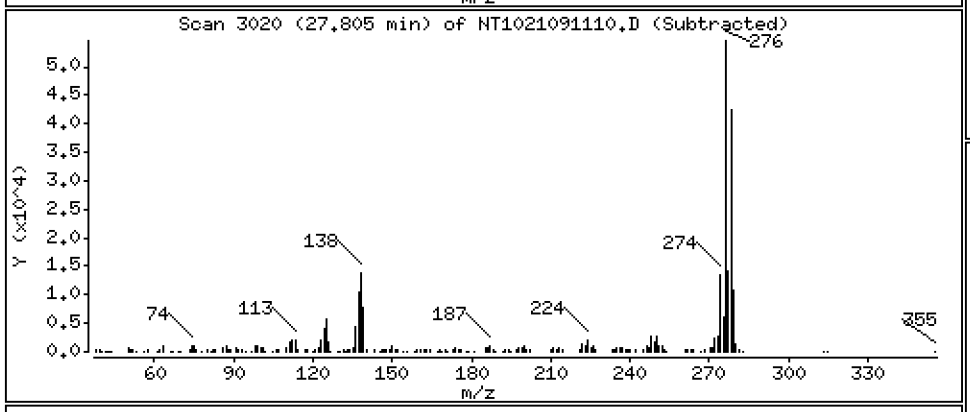
Column phase: ZB-5msi

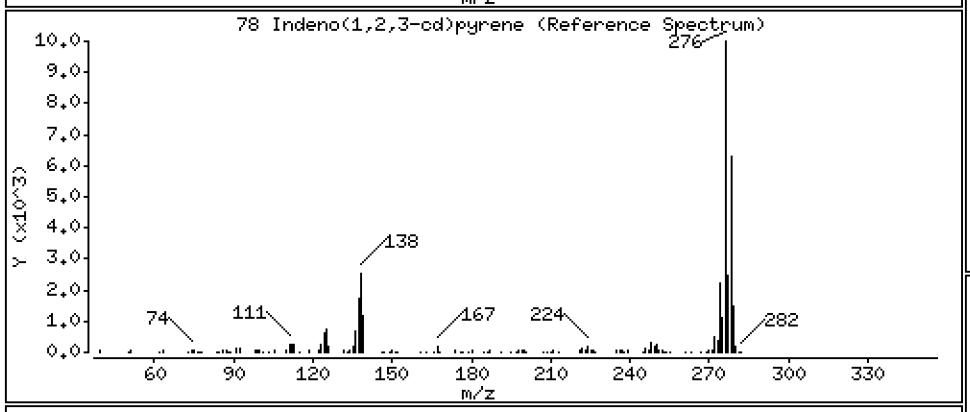
Column diameter: 0.25

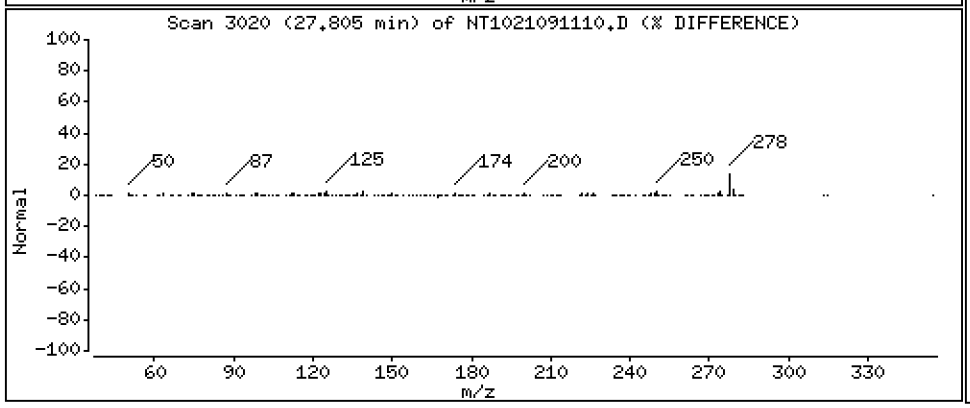
78 Indeno(1,2,3-cd)pyrene

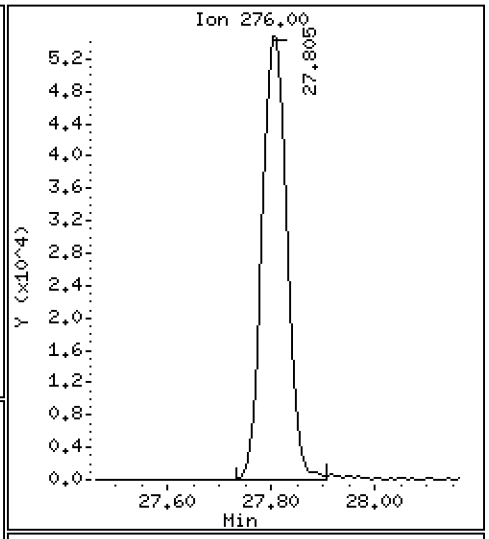
Concentration: 2.763 ug/mL

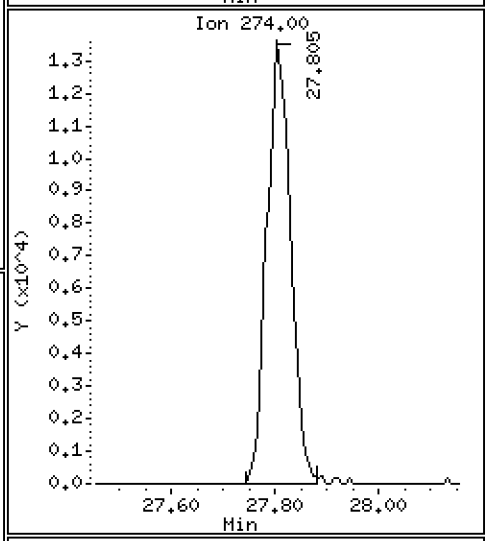


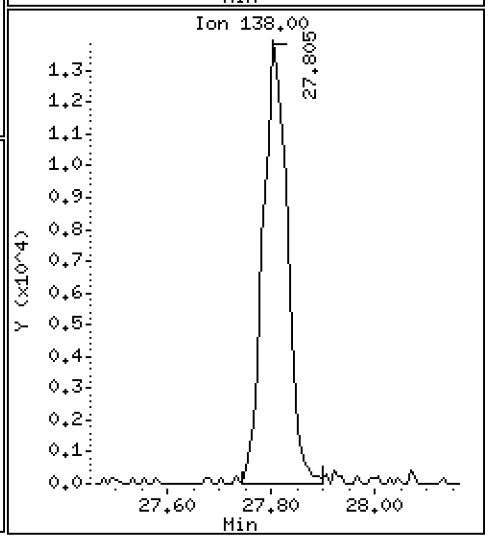












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

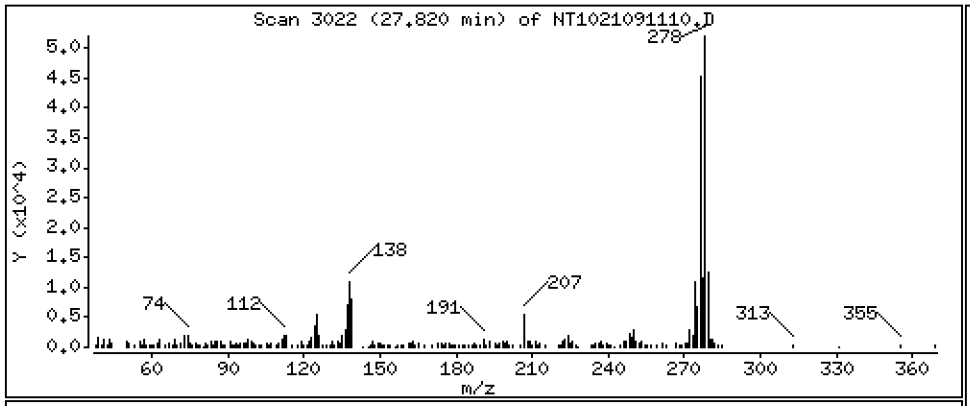
Operator: VTS

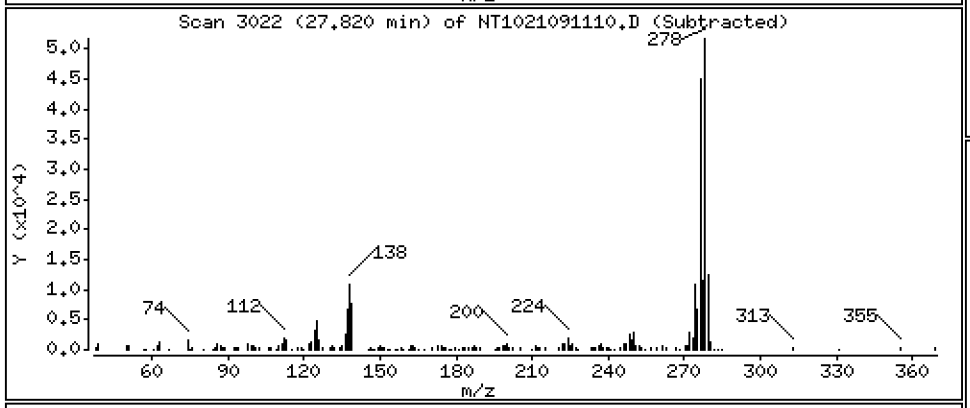
Column phase: ZB-5msi

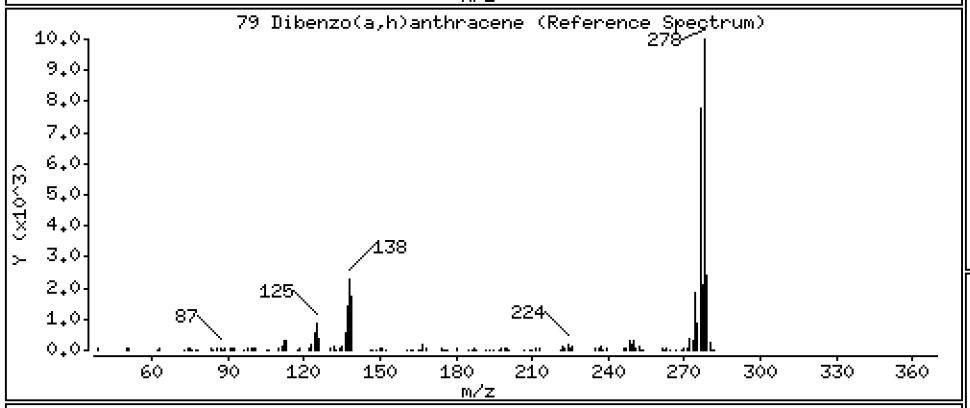
Column diameter: 0.25

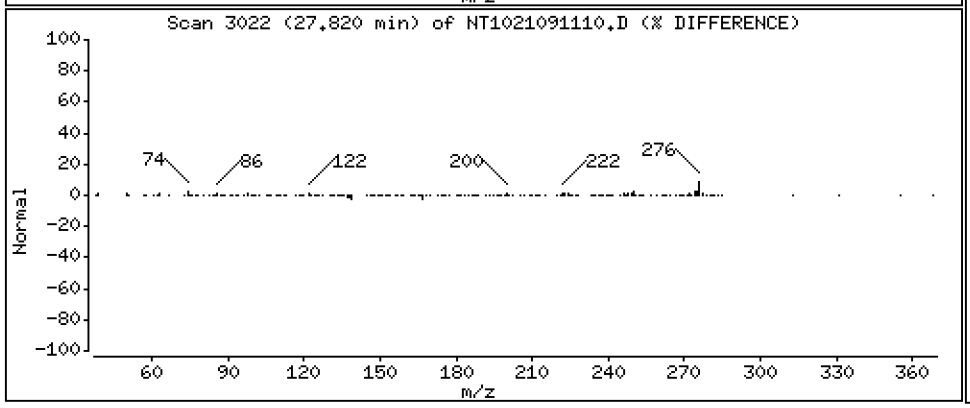
79 Dibenzo(a,h)anthracene

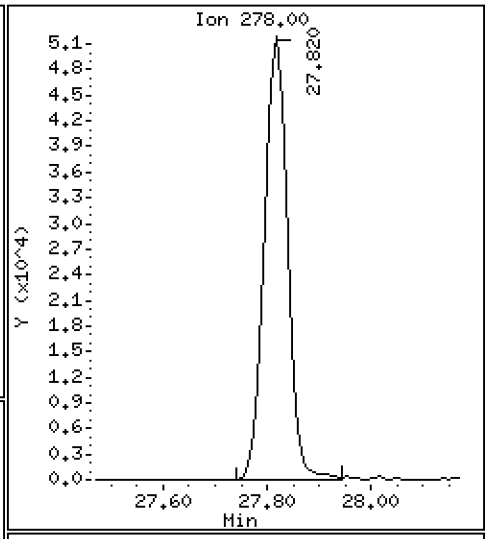
Concentration: 3.180 ug/mL

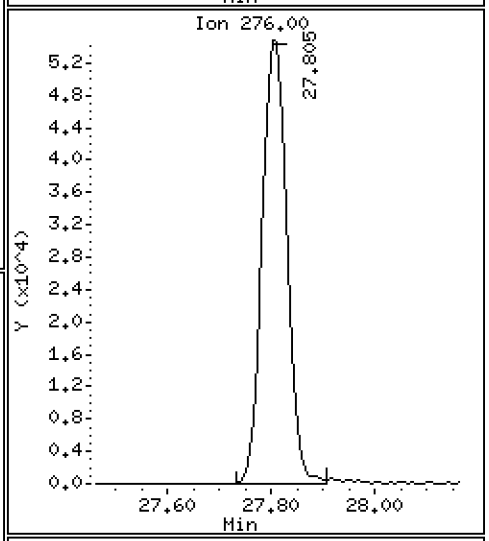


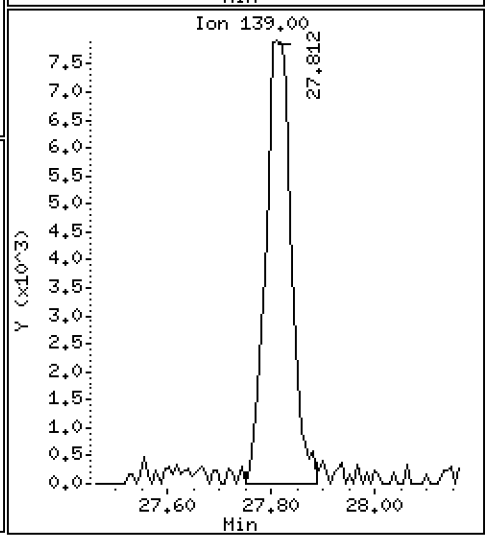












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

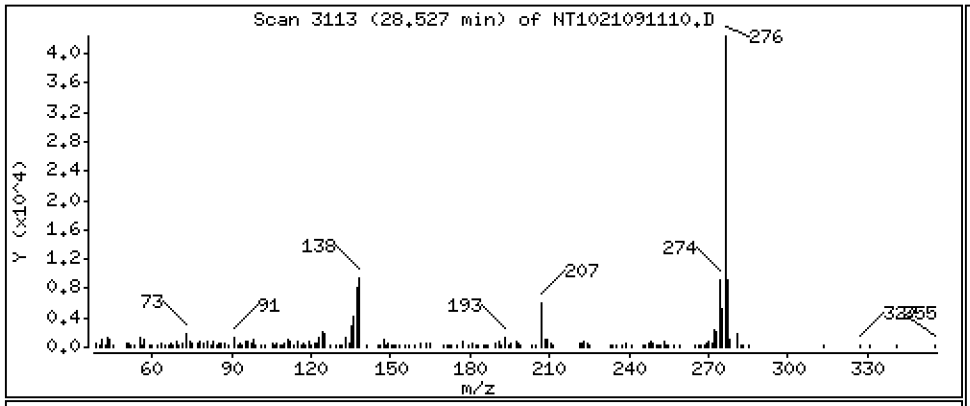
Operator: VTS

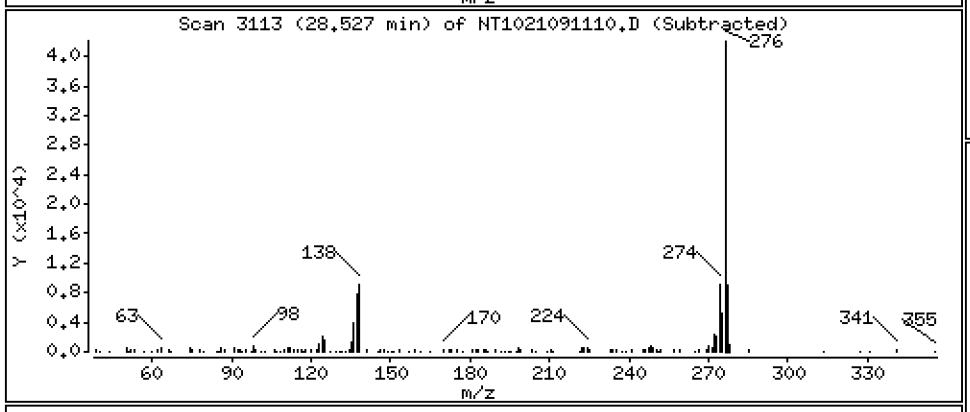
Column phase: ZB-5msi

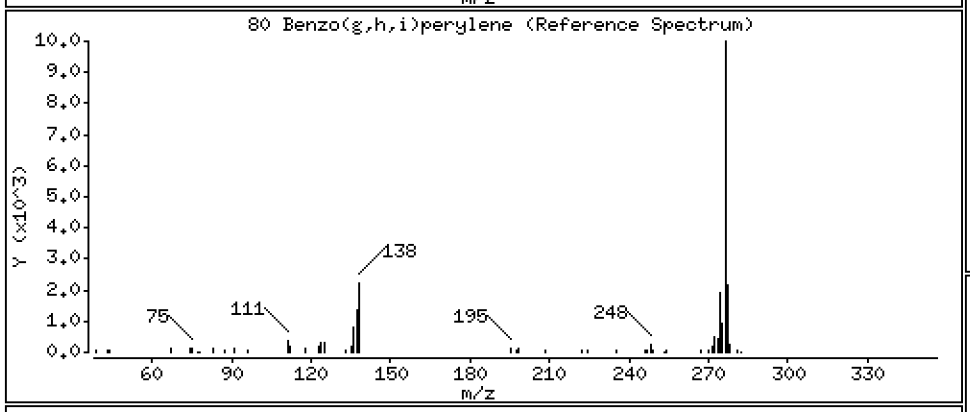
Column diameter: 0.25

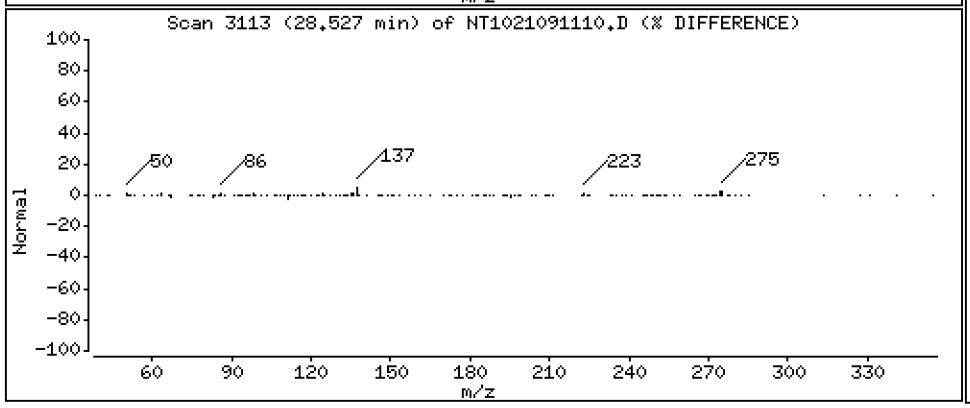
80 Benzo(g,h,i)perylene

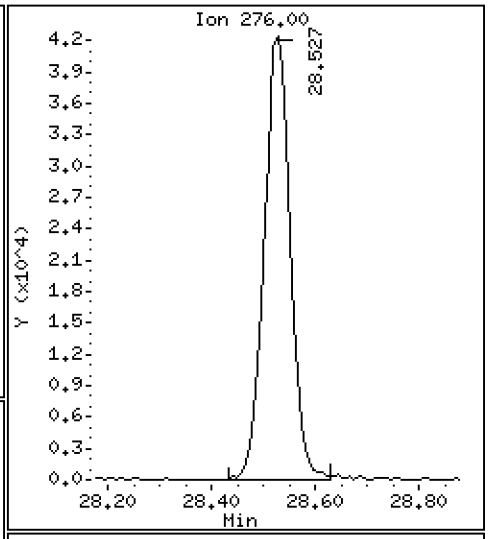
Concentration: 2.556 ug/mL

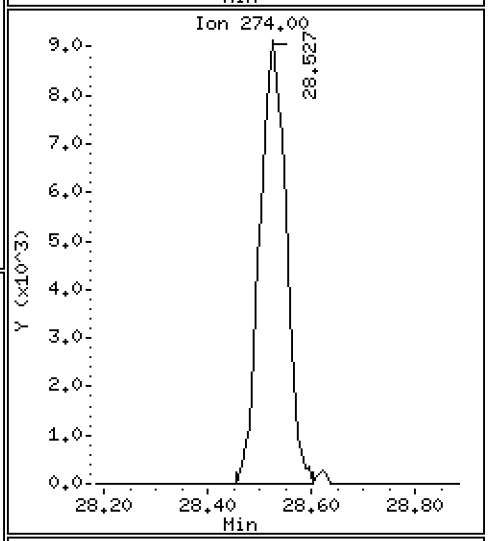


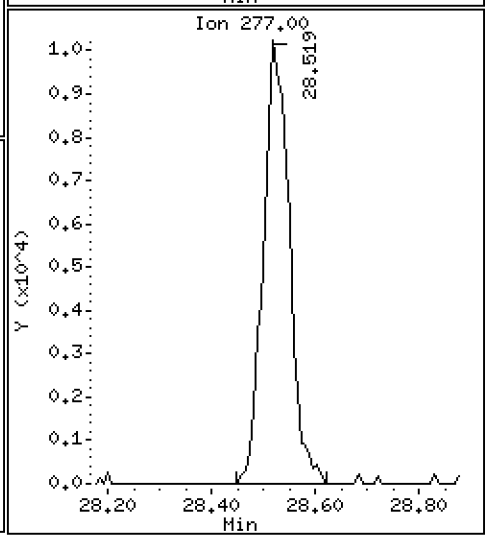












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

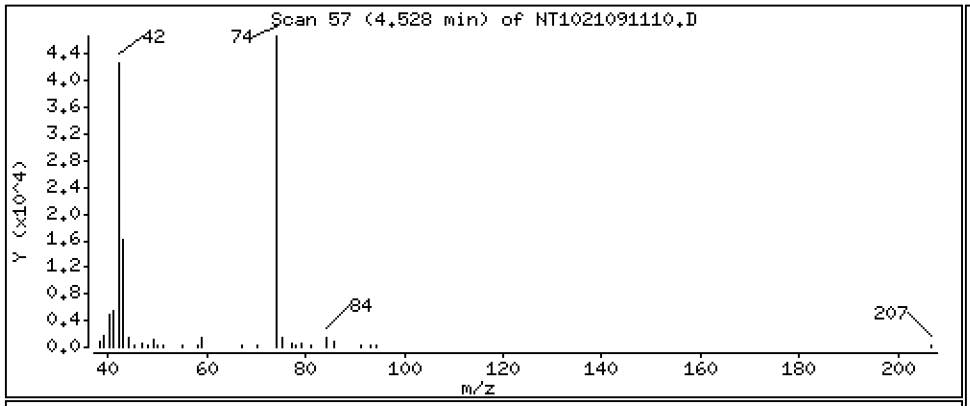
Operator: VTS

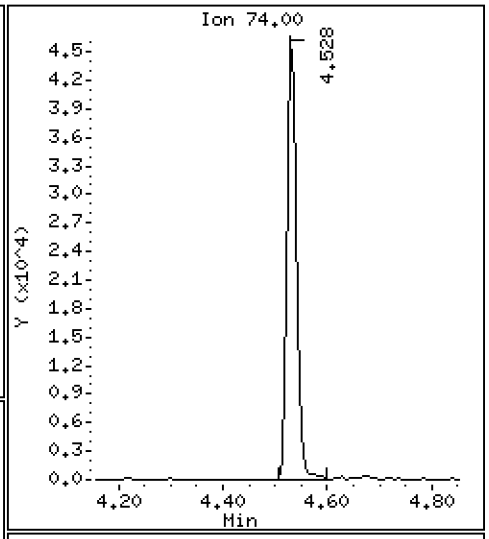
Column phase: ZB-5msi

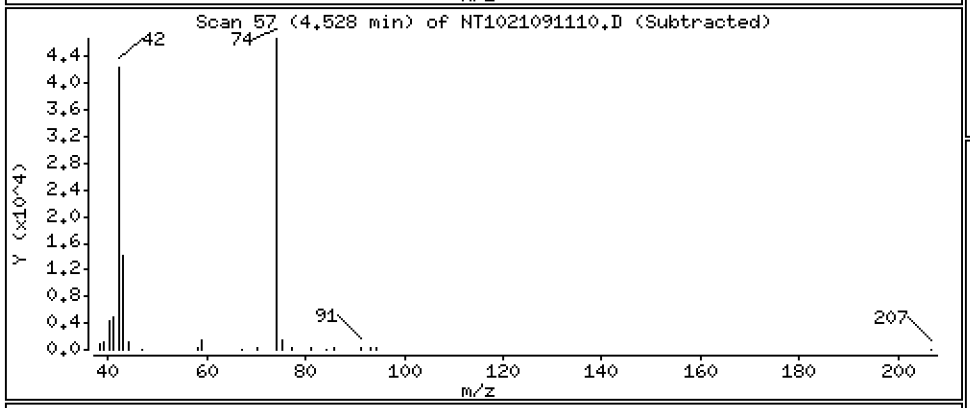
Column diameter: 0.25

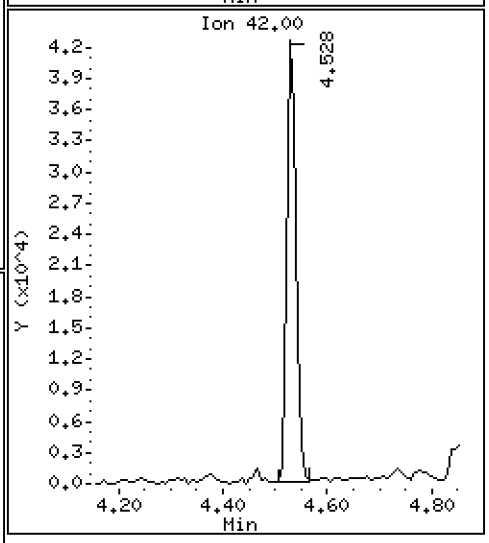
90 N-Nitrosodimethylamine

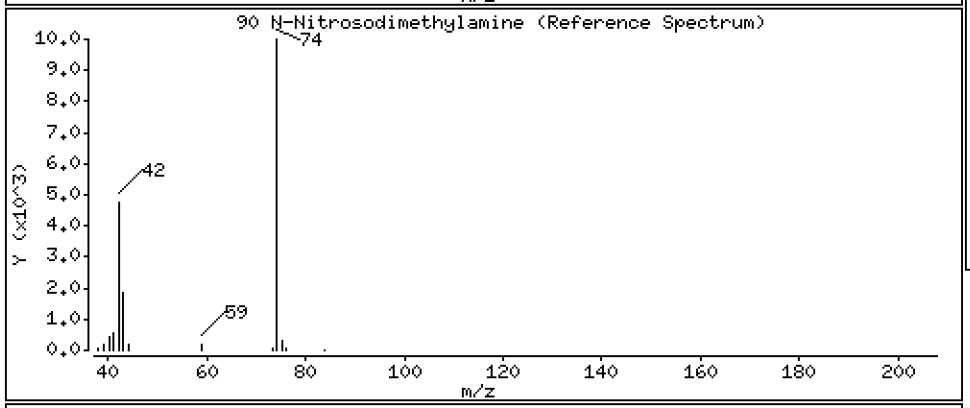
Concentration: 1.955 ug/mL

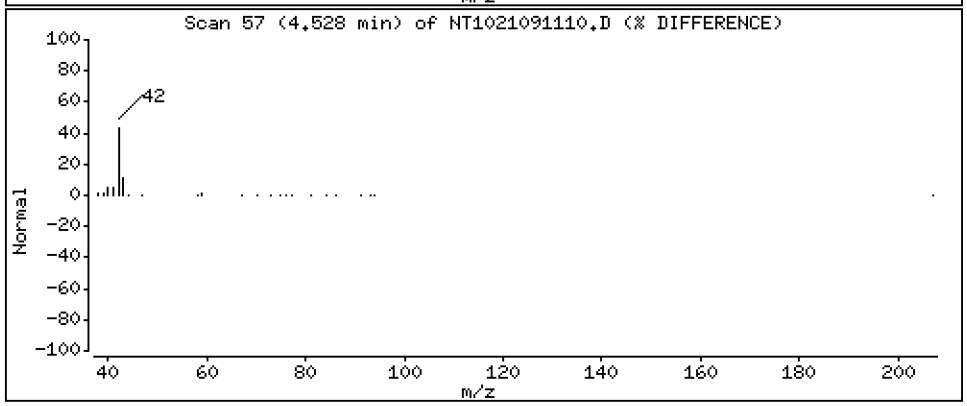












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

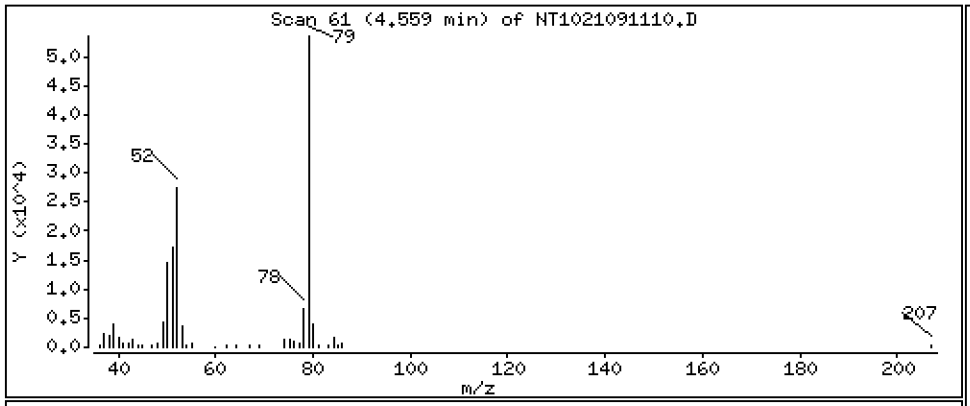
Operator: VTS

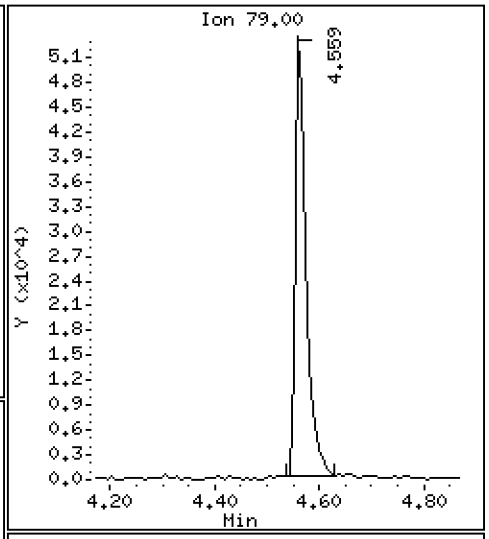
Column phase: ZB-5msi

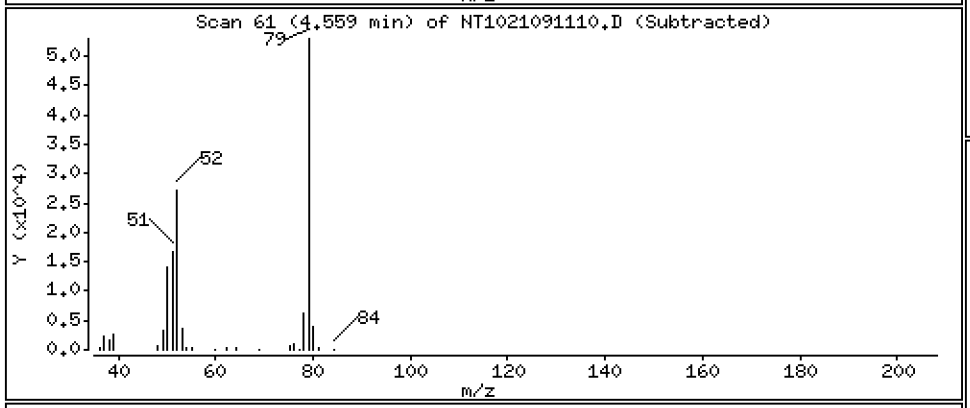
Column diameter: 0.25

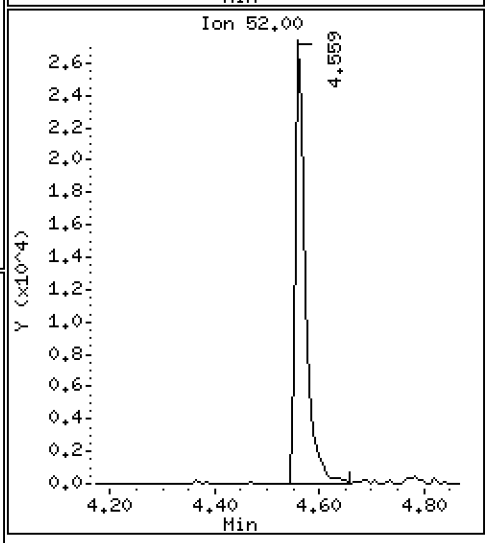
103 Pyridine

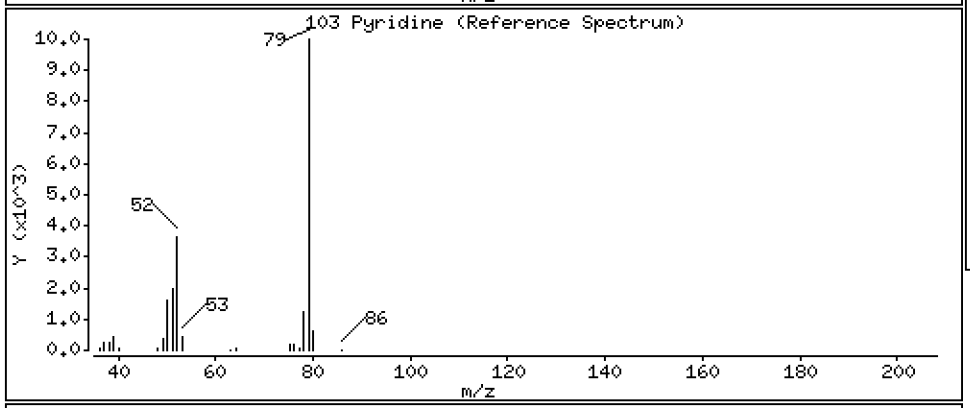
Concentration: 0.7745 ug/mL

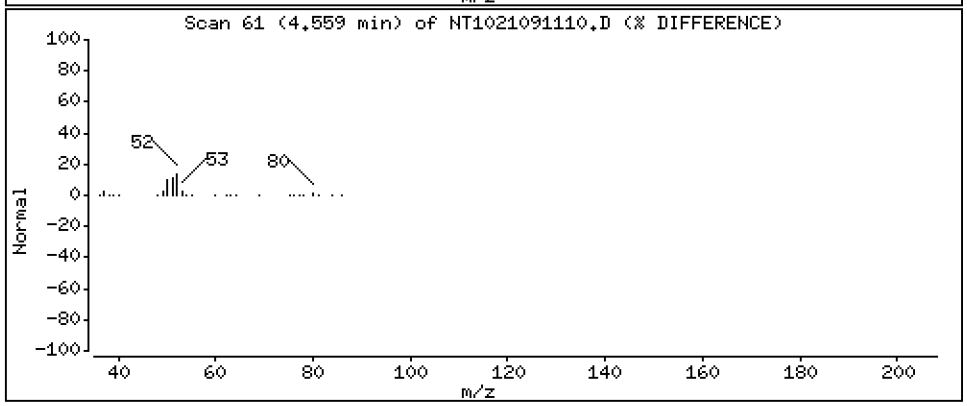












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Date : 11-SEP-2021 16:11

Client ID:

Instrument: nt10.i

Sample Info: BJH0655-SRM1

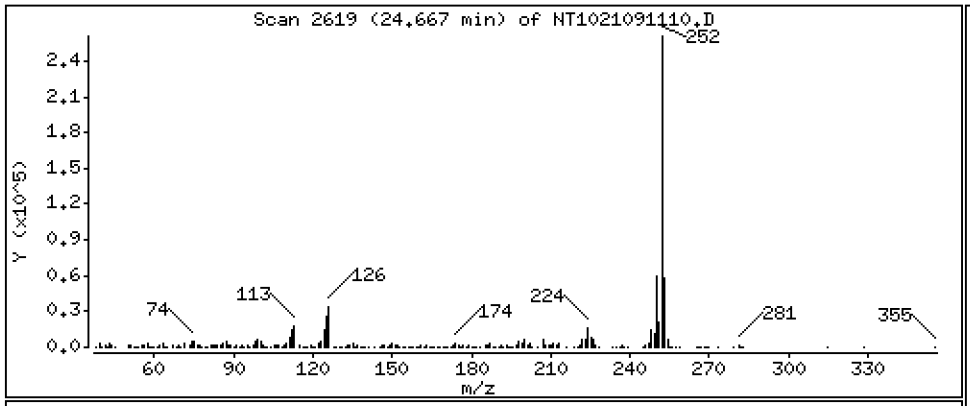
Operator: VTS

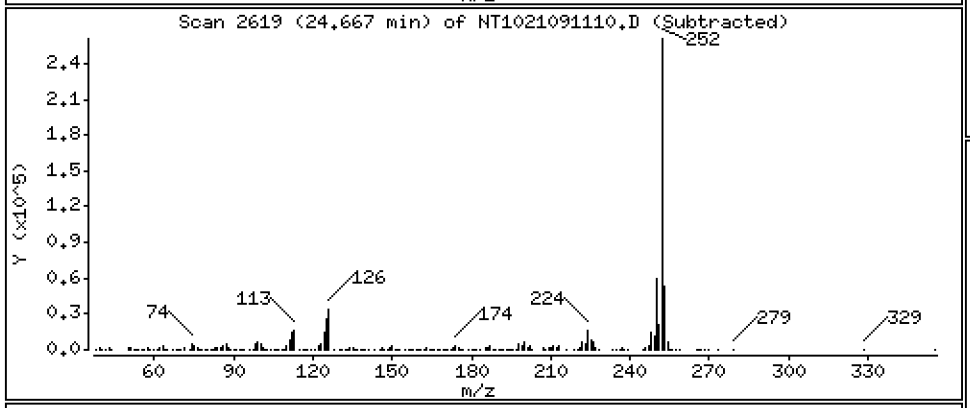
Column phase: ZB-5msi

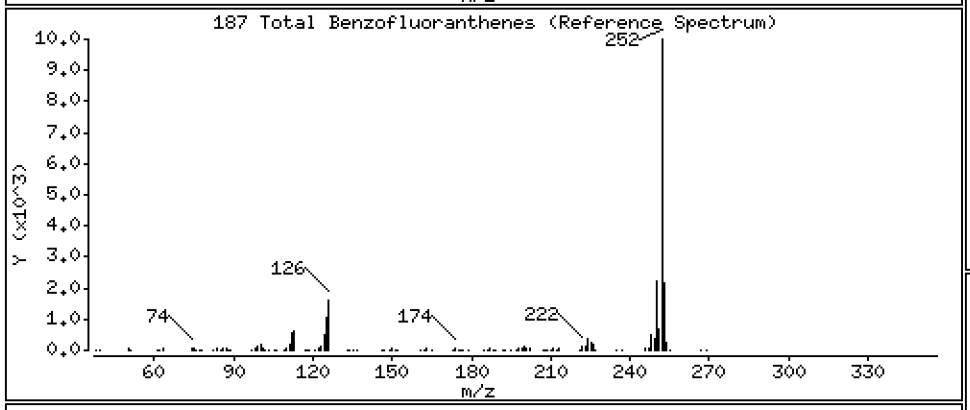
Column diameter: 0.25

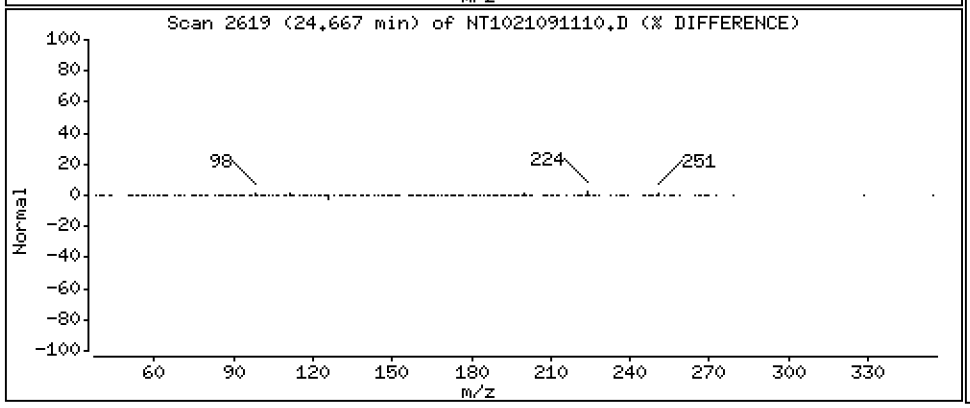
187 Total Benzofluoranthenes

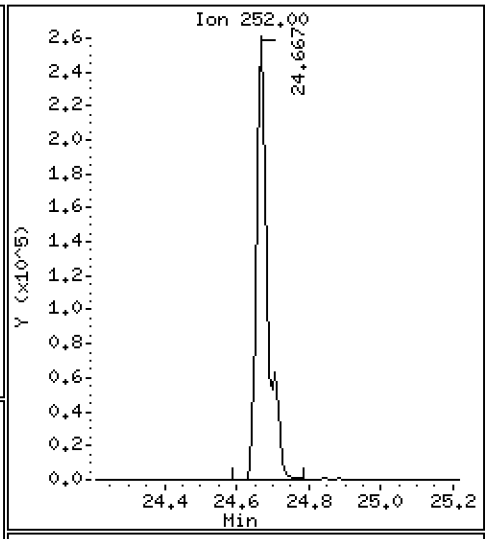
Concentration: 8.149 ug/mL

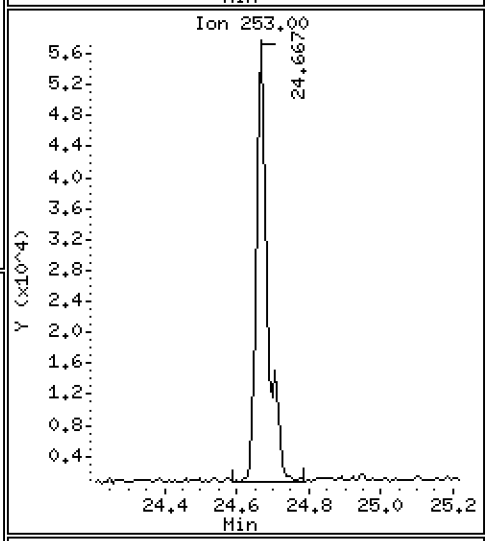


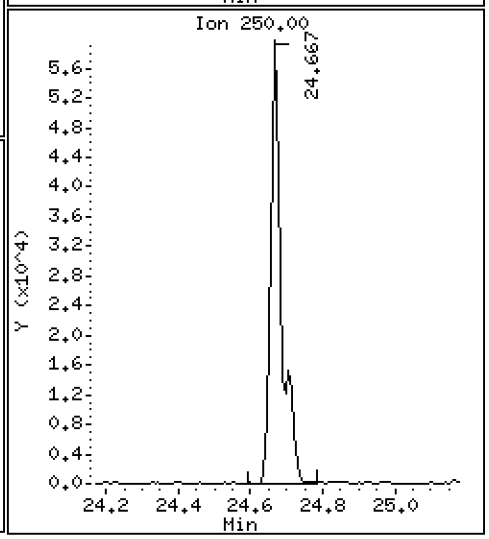












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 11-SEP-2021 16:11
Operator : VTS Inst ID: nt10.i
Smp Info : BJH0655-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.651	6.635	(0.754)	285205	5.77339	5.773
$	2 Phenol-d5	99	8.212	8.204	(0.932)	435521	6.15983	6.160
	3 Phenol	94	8.228	8.227	(0.933)	281741	4.35378	4.354
$	5 2-Chlorophenol-d4	132	8.467	8.459	(0.960)	320619	6.36587	6.366
	4 Bis(2-Chloroethyl)ether	93	8.367	8.366	(0.949)	39474	0.83374	0.8337
	6 2-Chlorophenol	128	8.490	8.490	(0.963)	228764	4.26031	4.260
	7 1,3-Dichlorobenzene	146	8.746	8.745	(0.992)	57365	1.02745	1.027
*	8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	147760	4.00000	
	9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	62944	1.48912	1.489
$	10 1,2-Dichlorobenzene-d4	152	9.165	9.164	(1.040)	146215	4.27379	4.274
	12 1,2-Dichlorobenzene	146	9.196	9.188	(1.043)	18729	0.38934	0.3893
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.320	9.320	(1.057)	224061	5.46655	5.467
	17 Hexachloroethane	117	9.770	9.778	(1.108)	40419	2.21096	2.211
	16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	162487	5.65141	5.651
	15 4-Methylphenol	108	9.592	9.584	(1.088)	244729	5.58992	5.590
$	18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	235788	5.02810	5.028
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	10.368	10.367	(0.921)	627530	9.39153	9.392
	21 2-Nitrophenol	139	10.546	10.545	(0.937)	65902	2.67649	2.676
	22 2,4-Dimethylphenol	107	10.613	10.605	(0.943)	180396	4.74771	4.748
	23 Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	178355	4.52166	4.522
	24 Benzoic acid	105	10.766	10.834	(0.956)	100142	5.18481	5.185
	25 2,4-Dichlorophenol	162	11.004	11.004	(0.977)	175260	4.50076	4.501
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.260	11.260	(1.000)	447874	4.00000	
	28 Naphthalene	128	11.299	11.306	(1.003)	98570	0.88713	0.8871
	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	12.676	12.675	(1.126)	267620	2.52392	2.524
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	181612	6.24628	6.246
	35 2,4,5-Trichlorophenol	196	13.388	13.380	(0.902)	134038	4.38821	4.388
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	525892	4.59085	4.591
	37 2-Chloronaphthalene	162	13.658	13.658	(0.921)	241292	2.64593	2.646
	38 2-Nitroaniline	65	13.922	13.929	(0.938)	75948	2.80483	2.805
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	14.525	14.525	(0.979)	642743	4.52338	4.523
	41 2,6-Dinitrotoluene	165	14.487	14.486	(0.977)	198491	9.55778	9.558
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	286721	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	14.897	14.896	(1.004)	293052	3.89913	3.899
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.221	15.221	(1.026)	468312	3.50652	3.507
	47 4-Nitrophenol	109	15.121	15.113	(1.019)	75226	7.40412	7.404
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	172802	5.96082	5.961
	50 Diethylphthalate	149	15.786	15.793	(1.064)	13530	0.15962	0.1596
	49 Fluorene	166	15.925	15.925	(1.073)	837309	7.06402	7.064
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	92217	1.73812	1.738
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	495355	8.01725	8.017
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	78535	7.13144	7.131
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	97650	3.94300	3.943
	57 Hexachlorobenzene	284	17.221	17.221	(0.965)	66714	2.84169	2.842
	58 Pentachlorophenol	266	17.585	17.584	(0.986)	62295	7.09729	7.097
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	413085	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	208722	2.06957	2.070
	61 Anthracene	178	17.979	17.979	(1.008)	295035	2.72276	2.723
	62 Carbazole	167	18.312	18.312	(1.026)	9242	0.08281	0.08281
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	20.277	20.269	(0.886)	607008	5.75495	5.755
	65 Pyrene	202	20.695	20.695	(0.904)	821236	7.58627	7.586
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	337493	4.96143	4.961
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	22.863	22.863	(0.999)	287819	3.41898	3.419
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	240963	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	22.932	22.932	(1.002)	111175	1.66585	1.666
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	3936	0.07234	0.07234
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	565360	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	937925	7.52719	7.527
	74 Benzo(b)fluoranthene	252	24.667	24.674	(0.972)	483300	6.73757	6.738
	75 Benzo(k)fluoranthene	252	24.705	24.713	(0.974)	99023	1.40819	1.408
	76 Benzo(a)pyrene	252	25.263	25.270	(0.996)	85066	1.34244	1.342
*	77 Perylene-d12	264	25.371	25.379	(1.000)	194975	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.804	27.812	(1.096)	180865	2.76296	2.763
	79 Dibenzo(a,h)anthracene	278	27.820	27.819	(1.096)	159262	3.18005	3.180
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	146113	2.55593	2.556
	90 N-Nitrosodimethylamine	74	4.527	4.504	(0.514)	62199	1.95517	1.955
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.558	4.519	(0.517)	77842	0.77453	0.7745
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.667	24.713	(0.972)	557651	8.14869	8.149
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091110.D
Lab Smp Id: BJH0655-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	147760	7.30
27 Naphthalene-d8	447216	223608	894432	447874	0.15
42 Acenaphthene-d10	264765	132383	529530	286721	8.29
59 Phenanthrene-d10	428682	214341	857364	413085	-3.64
69 Chrysene-d12	221118	110559	442236	240963	8.97
134 Di-n-octylphthala	404470	202235	808940	565360	39.78
77 Perylene-d12	154408	77204	308816	194975	26.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.37	-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 - NT1021091110.D

Lab ID: BJH0655-SRM1
nt10.i, ABN.m, 11-SEP-2021 16:11

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.962	-0.0060	Benzoic acid

RRT check based on Ccal File: NT1021091106.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

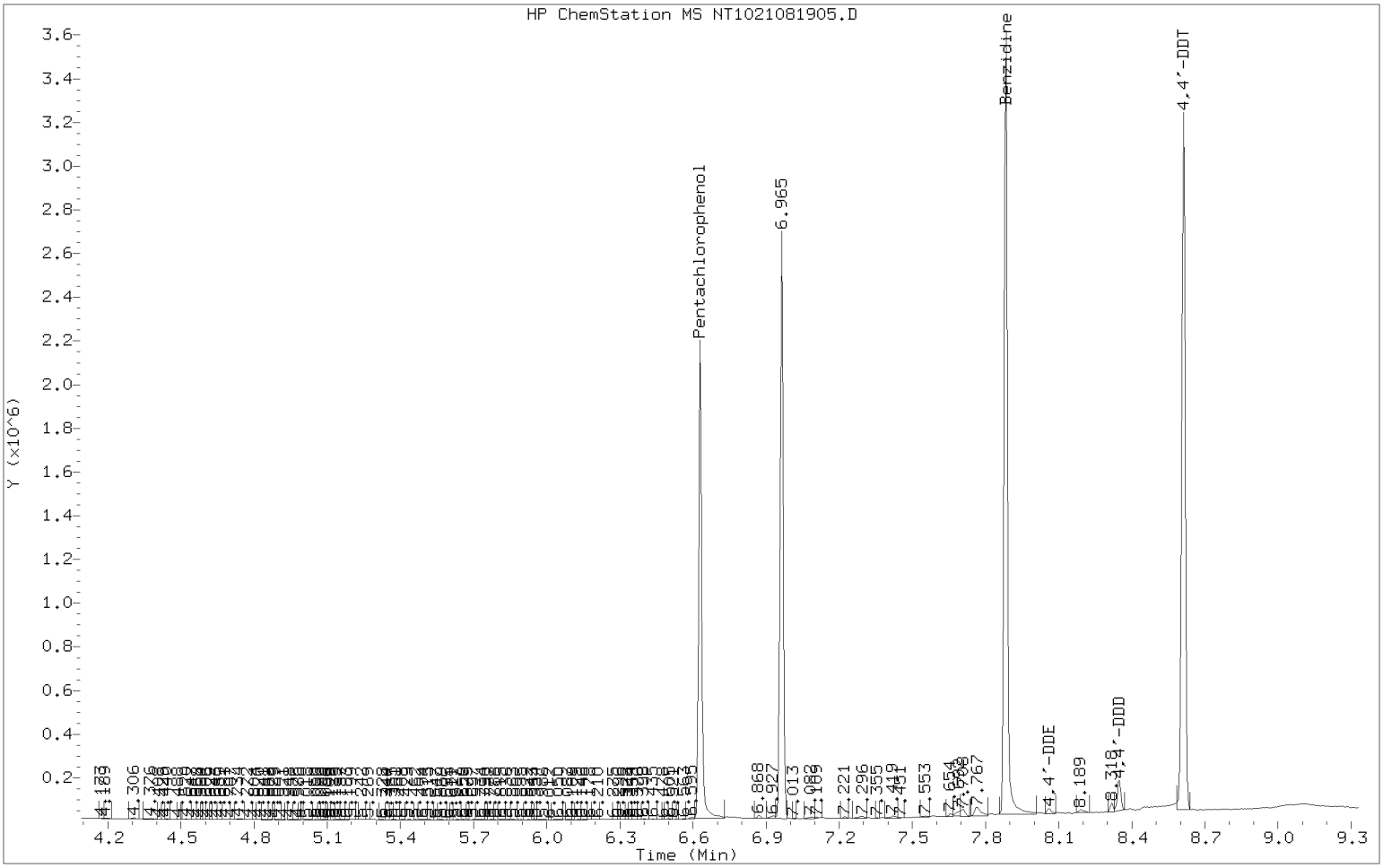
Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Lab File ID:	NT1021081905.D	Injection Date:	08/19/21
Instrument ID:	NT10	Injection Time:	14:35
Sequence:	SJH0235	Lab Sample ID:	SJH0235-TUN1

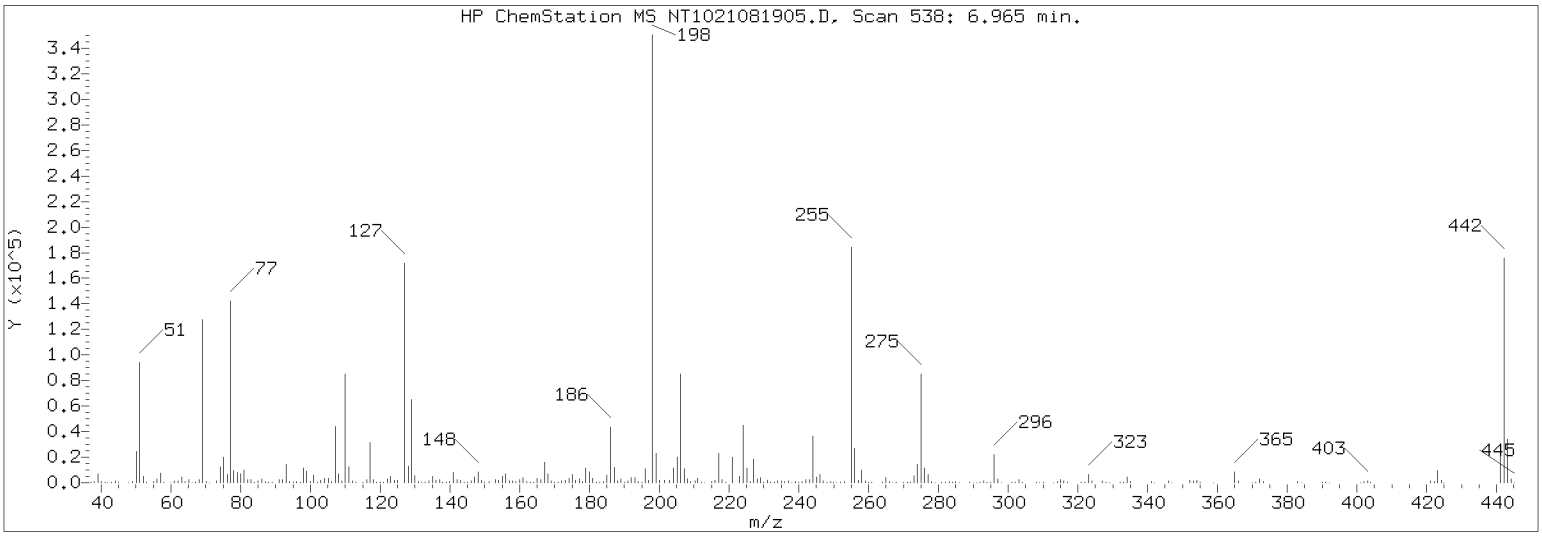
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.73	PASS
69	Less than 100% of 198	37.2	PASS
70	Less than 2% of 69	0.469	PASS
197	Less than 2% of 198	0.372	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.67	PASS
365	1 - 100% of 198	2.48	PASS
441	Less than 150% of 443	77.6	PASS
442	1 - 200% of 198	53.3	PASS
443	15 - 24% of 442	19.1	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Base peak, 100% relative abundance		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SJH0235-TUN1	NT1021081905.D	08/19/2021	14:35
Cal Standard	SJH0235-CAL5	NT1021081906.D	08/19/2021	14:58
Cal Standard	SJH0235-CAL7	NT1021081907.D	08/19/2021	15:36
Cal Standard	SJH0235-CAL1	NT1021081908.D	08/19/2021	16:15
Cal Standard	SJH0235-CAL6	NT1021081909.D	08/19/2021	16:53
Cal Standard	SJH0235-CAL2	NT1021081910.D	08/19/2021	17:31
Cal Standard	SJH0235-CAL4	NT1021081911.D	08/19/2021	18:09
Cal Standard	SJH0235-CAL3	NT1021081912.D	08/19/2021	18:48
Secondary Cal Check	SJH0235-SCV1	NT1021081915.D	08/19/2021	20:42
Initial Cal Blank	SJH0235-ICB1	NT1021081916.D	08/19/2021	21:20

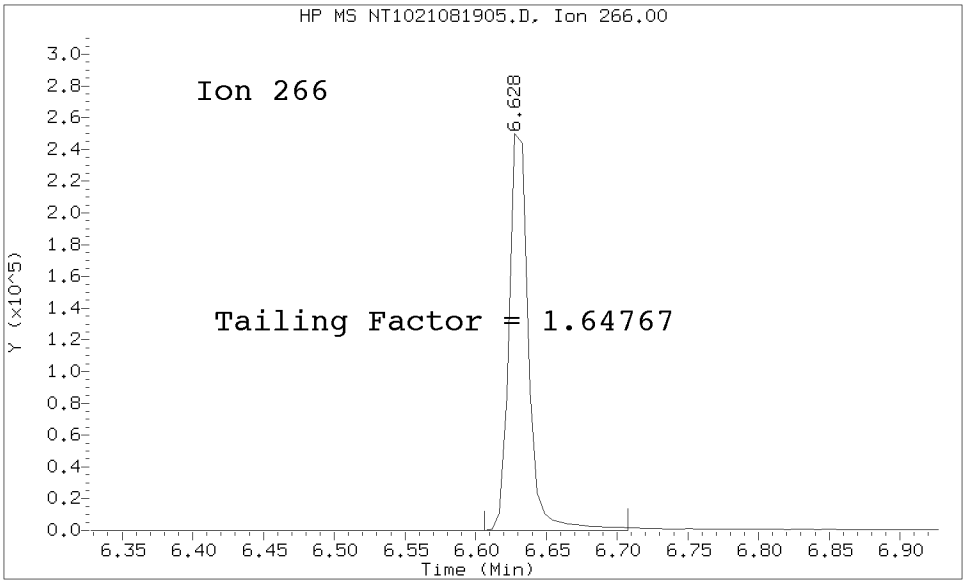
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20210819.b/NT1021081905.D/NT1021081905.D
Method Used: \20210819.b\DFTPP8270E.m Inst: nt10
Injection Date: 19-AUG-2021 14:35 Operator: YZ/VTS
Sample Info: SJH0235-TUN1 SJH0235-TUN1
Report Date: 08/20/2021 12:56



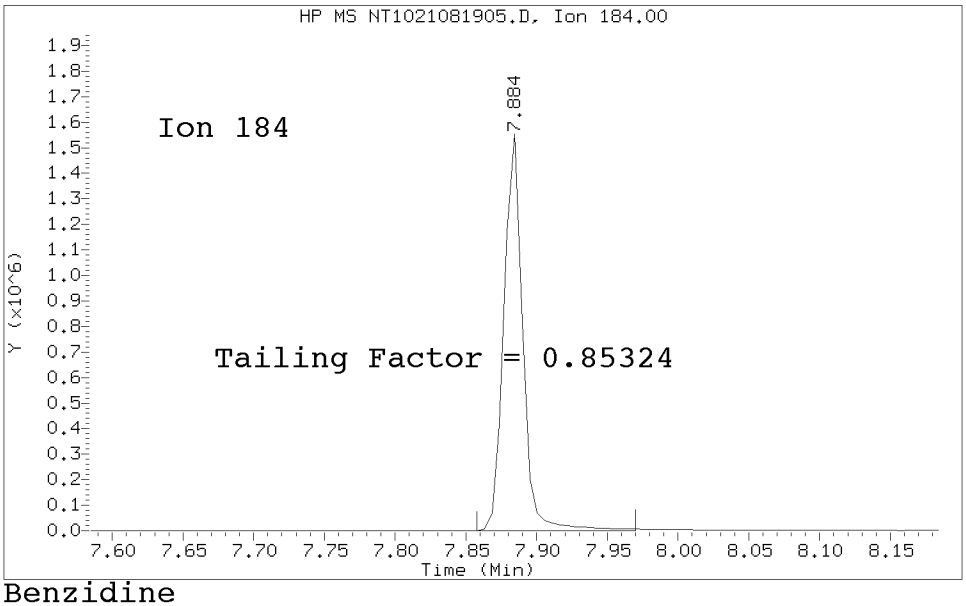


Datafile Analyzed: /20210819.b/NT1021081905.D/NT1021081905.D
Method Used: \20210819.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 19-AUG-2021 14:35 Operator: YZ/VTS
Sample Info: SJH0235-TUN1
Report Date: 08/20/2021 12:56



Pentachlorophenol
==========
Exp. RT = 6.627
Found RT = 6.628

Tail Factor = 1.648 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.890
Found RT = 7.884

Tail Factor = 0.853 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6476684	2.000	PASS
Benzidine	0.8532423	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	650075			N/A
4,4-DDE	2478	0.4	20.0	PASS
4,4-DDD	27913	4.1	20.0	PASS
4,4-DDD + DDE	30391	4.5	20.0	PASS

Tuning Sample, nt10.i/20210819.b/NT1021081905.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	0.65 (1.73)
69	Mass 69 relative abundance	37.22
70	Less than 2.00% of mass 69	0.17 (0.47)
197	Less than 2.00% of mass 198	0.37
199	5.00 - 9.00% of mass 198	6.67
365	1.00 - 100.00% of mass 198	2.48
441	Less than 150.00% of mass 443	7.91 (77.63)
442	Less than 200.00% of mass 198	53.27
443	15.00 - 24.00% of mass 442	10.20 (19.14)

Data File: NT1021081905.D
Spectrum: Avg. Scans 537-539 (6.96), Background Scan 532
Location of Maximum: 198.00
Number of points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	344	122.00	2122	198.00	269696	281.00	34
38.00	956	123.00	3696	199.00	17992	282.00	196
39.00	5577	124.00	1568	200.00	1448	283.00	667
40.00	188	125.00	1551	201.00	1105	284.00	453
41.00	21	127.00	133056	203.00	1502	285.00	874
44.00	43	128.00	9989	204.00	9033	286.00	117
45.00	33	129.00	50272	205.00	15831	289.00	236
47.00	77	130.00	4225	206.00	65448	290.00	107
48.00	103	131.00	598	207.00	8326	291.00	71
49.00	478	132.00	488	208.00	2139	292.00	251
50.00	19736	133.00	15	209.00	588	293.00	1122
51.00	73632	134.00	1355	210.00	1108	294.00	262
52.00	3968	135.00	3719	211.00	2561	295.00	266
53.00	258	136.00	1656	212.00	209	296.00	16936
55.00	37	137.00	1759	213.00	188	297.00	2290
56.00	2234	138.00	426	215.00	402	298.00	109
57.00	5342	139.00	279	216.00	1174	301.00	246
58.00	356	140.00	569	217.00	18048	302.00	336
59.00	56	141.00	6109	218.00	2225	303.00	2049
60.00	176	142.00	2053	219.00	248	304.00	569
61.00	1045	143.00	1504	221.00	15202	308.00	244
62.00	1186	144.00	360	222.00	1640	309.00	121
63.00	3519	145.00	198	223.00	3894	310.00	252
64.00	430	146.00	1198	224.00	35336	313.00	134
65.00	1779	147.00	2947	225.00	8829	314.00	757
66.00	185	148.00	6817	226.00	916	315.00	1989
68.00	1740	149.00	1213	227.00	14281	316.00	985
69.00	100384	150.00	433	228.00	2085	317.00	212
70.00	471	151.00	843	229.00	3094	321.00	500
73.00	659	152.00	249	230.00	329	322.00	228
74.00	9672	153.00	1956	231.00	1440	323.00	5227
75.00	15416	154.00	1605	232.00	310	324.00	1074
76.00	5213	155.00	3571	233.00	300	327.00	991
77.00	111000	156.00	5362	234.00	1115	328.00	546
78.00	7473	157.00	1086	235.00	1106	329.00	60
79.00	6291	158.00	1135	236.00	764	332.00	380
80.00	5535	159.00	905	237.00	1292	333.00	496
81.00	7358	160.00	1962	238.00	241	334.00	3387
82.00	1843	161.00	2730	239.00	662	335.00	836
83.00	1896	162.00	662	240.00	486	336.00	51
84.00	62	163.00	365	241.00	902	341.00	644
85.00	1222	164.00	310	242.00	1876	342.00	197
86.00	2004	165.00	2382	243.00	2006	346.00	1086
87.00	1035	166.00	1883	244.00	28392	347.00	223
88.00	412	167.00	12081	245.00	3787	352.00	1543
89.00	260	168.00	5304	246.00	4993	353.00	1141
91.00	1352	169.00	1099	247.00	1150	354.00	1539
92.00	1713	170.00	455	248.00	234	355.00	336
93.00	11076	171.00	580	249.00	1013	359.00	60

94.00	694	172.00	1132	250.00	213	365.00	6691
95.00	10	173.00	1536	251.00	249	366.00	983
96.00	501	174.00	2618	252.00	278	370.00	80
97.00	108	175.00	4792	253.00	675	371.00	405
98.00	9069	176.00	1415	255.00	144064	372.00	2657
99.00	7146	177.00	2240	256.00	21368	373.00	614
100.00	668	178.00	758	257.00	1552	383.00	675
101.00	4613	179.00	8999	258.00	7812	384.00	132
102.00	196	180.00	6363	259.00	1284	390.00	327
103.00	1415	181.00	3049	260.00	247	391.00	253
104.00	2963	182.00	565	261.00	184	392.00	114
105.00	2261	183.00	337	264.00	220	401.00	141
106.00	652	184.00	886	265.00	3201	402.00	861
107.00	33688	185.00	4639	266.00	422	403.00	1334
108.00	5138	186.00	33880	267.00	108	404.00	405
109.00	986	187.00	9503	268.00	125	421.00	1076
110.00	64760	188.00	1019	270.00	244	422.00	994
111.00	9645	189.00	2062	271.00	289	423.00	7627
112.00	1273	190.00	317	272.00	407	424.00	1542
113.00	404	191.00	1085	273.00	4311	425.00	129
114.00	52	192.00	2829	274.00	11458	441.00	21344
115.00	106	193.00	3179	275.00	66816	442.00	143680
116.00	1902	194.00	648	276.00	8837	443.00	27496
117.00	24328	195.00	521	277.00	5117	444.00	2538
118.00	1877	196.00	8340	278.00	869	445.00	122
120.00	340	197.00	1004	279.00	61		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RRF		RRF		RRF		RRF		RRF		RRF
Phenol	0.2	1.638875	0.5	1.778501	1	1.821245	2.5	1.822355	5	1.816313	10	1.754332
bis(2-chloroethyl) ether	0.2	1.347472	0.5	1.410166	1	1.358596	2.5	1.284298	5	1.237712	10	1.1944
2-Chlorophenol	0.2	1.415826	0.5	1.495396	1	1.493287	2.5	1.425353	5	1.520523	10	1.441371
1,3-Dichlorobenzene	0.2	1.54318	0.5	1.602374	1	1.621442	2.5	1.547217	5	1.489809	10	1.426544
1,4-Dichlorobenzene	0.2	1.103556	0.5	1.183421	1	1.178684	2.5	1.182083	5	1.145897	10	1.134043
1,2-Dichlorobenzene	0.2	1.286133	0.5	1.361692	1	1.374712	2.5	1.331201	5	1.299198	10	1.259211
Benzyl Alcohol	0.2	0.6248988	0.5	0.6632335	1	0.8090362	2.5	0.8527447	5	0.920831	10	0.8873588
2,2'-Oxybis(1-chloropropane)	0.2	0.3831418	0.5	0.3135063	1	0.4240032	2.5	0.389361	5	0.3891466	10	0.4062283
2-Methylphenol	0.2	1.061285	0.5	1.104623	1	1.144261	2.5	1.12457	5	1.144839	10	1.113897
Hexachloroethane	0.2	0.4903495	0.5	0.4874127	1	0.4869643	2.5	0.4959996	5	0.5046863	10	0.5027831
N-Nitroso-di-n-Propylamine	0.2	0.7466767	0.5	0.8033694	1	0.8049362	2.5	0.8018961	5	0.7926496	10	0.7687589
4-Methylphenol	0.2	1.040958	0.5	1.199426	1	1.215462	2.5	1.213665	5	1.249131	10	1.219449
Nitrobenzene	0.2	0.3915227	0.5	0.3930143	1	0.3857849	2.5	0.3896712	5	0.3743154	10	0.3933162
Isophorone	0.2	0.4759093	0.5	0.5401303	1	0.552249	2.5	0.6600952	5	0.6124437	10	0.63729
2-Nitrophenol	0.2	0.1720294	0.5	0.1936405	1	0.2112905	2.5	0.2179004	5	0.2475049	10	0.2457927
2,4-Dimethylphenol			1	0.3539854	2	0.36434	5	0.3512318	10	0.3292755	20	0.3239117
Bis(2-Chloroethoxy)methane	0.2	0.3674044	0.5	0.3908995	1	0.3812702	2.5	0.3571166	5	0.3154854	10	0.3335888
2,4-Dichlorophenol			1	0.3318393	2	0.3502593	5	0.3522415	10	0.3689393	20	0.3548525
1,2,4-Trichlorobenzene	0.2	0.363817	0.5	0.3684362	1	0.3596095	2.5	0.3410534	5	0.3291029	10	0.3076867
Naphthalene	0.2	0.9175451	0.5	0.9751811	1	0.9909891	2.5	1.020441	5	0.9873921	10	1.033932
Benzoic acid			2	3.718433E-02	4	6.445784E-02	10	0.1047087	20	0.1830882	40	0.1848
4-Chloroaniline			1	0.407888	2	0.4187446	5	0.4925716	10	0.4821002	20	0.5391198
Hexachlorobutadiene	0.2	0.1750648	0.5	0.1876722	1	0.1982398	2.5	0.1958482	5	0.183977	10	0.1814075
4-Chloro-3-Methylphenol			1	0.2963233	2	0.3130439	5	0.3353914	10	0.3747152	20	0.387681
2-Methylnaphthalene	0.2	0.7890612	0.5	0.8759524	1	0.9235893	2.5	0.9585372	5	0.9949886	10	1.028664
Hexachlorocyclopentadiene			1	0.1133246	2	0.1583608	5	0.2239161	10	0.2881793	20	0.315376
2,4,6-Trichlorophenol			1	0.3520533	2	0.3600806	5	0.3907764	10	0.4595792	20	0.4404445
2,4,5-Trichlorophenol			1	0.3635847	2	0.3741254	5	0.4052588	10	0.4855536	20	0.4688358

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RRF		RRF		RRF		RRF		RRF		RRF
2-Chloronaphthalene	0.2	1.189389	0.5	1.271217	1	1.240491	2.5	1.294047	5	1.342539	10	1.311197
2-Nitroaniline			1	0.3485208	2	0.3484753	5	0.3857669	10	0.3952657	20	0.4051861
Acenaphthylene	0.2	2.134405	0.5	2.130591	1	2.051025	2.5	2.034983	5	1.957588	10	1.856727
Dimethylphthalate	0.2	1.467825	0.5	1.466195	1	1.379673	2.5	1.342613	5	1.290536	10	1.179631
2,6-Dinitrotoluene			1	0.2955128	2	0.2930108	5	0.296983	10	0.30167	20	0.2869019
Acenaphthene	0.2	0.986207	0.5	1.025727	1	1.010365	2.5	1.064315	5	1.072858	10	1.102238
3-Nitroaniline			1	0.3390195	2	0.335686	5	0.4045085	10	0.4150265	20	0.4250925
2,4-Dinitrophenol			2	7.61317E-03	4	3.679604E-02	10	8.478582E-02	20	0.157956	40	0.169159
Dibenzofuran	0.2	1.783886	0.5	1.797683	1	1.800301	2.5	1.901024	5	1.96192	10	1.906413
4-Nitrophenol	0.4	5.361758E-02	1	8.500358E-02	2	9.525122E-02	5	0.1133469	10	0.1425177	20	0.1457004
2,4-Dinitrotoluene			1	0.3648637	2	0.3719615	5	0.4111324	10	0.4432861	20	0.4306717
Fluorene	0.2	1.766459	0.5	1.777503	1	1.725933	2.5	1.700883	5	1.634721	10	1.556904
4-Chlorophenylphenyl ether	0.2	0.7800541	0.5	0.7955458	1	0.7712777	2.5	0.7477259	5	0.7360612	10	0.6993629
Diethyl phthalate	0.2	1.279099	0.5	1.253432	1	1.202174	2.5	1.224675	5	1.171221	10	1.086504
4-Nitroaniline			1	0.3956615	2	0.38767	5	0.4051495	10	0.4268721	20	0.4228579
4,6-Dinitro-2-methylphenol	0.8	5.357806E-02	2	9.424886E-02	4	0.1227918	10	0.1438563	20	0.1681125	40	0.1667387
N-Nitrosodiphenylamine	0.2	0.6776761	0.5	0.688012	1	0.6412242	2.5	0.6105401	5	0.5680242	10	0.5192081
4-Bromophenyl phenyl ether	0.2	0.2349369	0.5	0.2502032	1	0.2406109	2.5	0.238504	5	0.2463424	10	0.2351805
Hexachlorobenzene	0.2	0.2450764	0.5	0.2596422	1	0.2435572	2.5	0.228788	5	0.2172873	10	0.2050154
Pentachlorophenol			1	2.706074E-02	2	3.961277E-02	5	5.343547E-02	10	9.409818E-02	20	8.833918E-02
Phenanthrene	0.2	0.9652693	0.5	0.9604039	1	0.9680957	2.5	0.9634894	5	1.001463	10	0.9801089
Anthracene	0.2	0.9950541	0.5	1.023964	1	1.040226	2.5	1.034566	5	1.109972	10	1.066799
Carbazole	0.2	1.022534	0.5	1.029341	1	1.029054	2.5	1.048808	5	1.147921	10	1.131171
Di-n-Butylphthalate	0.2	1.201877	0.5	1.222418	1	1.236763	2.5	1.337532	5	1.46634	10	1.423409
Fluoranthene	0.2	1.595778	0.5	1.692185	1	1.691925	2.5	1.71917	5	1.849784	10	1.881029
Pyrene	0.2	1.688661	0.5	1.763461	1	1.782669	2.5	1.785504	5	1.845963	10	1.894909
Butylbenzylphthalate	0.2	0.8545606	0.5	0.8021147	1	0.7271126	2.5	0.6817688	5	0.6817366	10	0.6343196
Benzo(a)anthracene	0.2	1.45145	0.5	1.462035	1	1.483652	2.5	1.430421	5	1.373574	10	1.328119

Analytical Resources, Incorporated
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INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RRF		RRF		RRF		RRF		RRF		RRF
3,3'-Dichlorobenzidine	0.6	0.5206654	1.5	0.5337801	3	0.5386766	7.5	0.5499128	15	0.5696943	30	0.5855975
Chrysene	0.2	1.089416	0.5	1.110749	1	1.096369	2.5	1.102474	5	1.129654	10	1.137527
bis(2-Ethylhexyl)phthalate	0.2	0.4055111	0.5	0.3887167	1	0.3812053	2.5	0.3856965	5	0.3905401	10	0.3814212
Di-n-Octylphthalate	0.2	0.8944643	0.5	0.9001747	1	0.890219	2.5	0.8908634	5	0.8971881	10	0.8625497
Benzofluoranthenes, Total	0.4	1.431742	1	1.408585	2	1.412087	5	1.405557	10	1.434762	20	1.404413
Benzo(a)pyrene	0.2	1.282044	0.5	1.286836	1	1.29942	2.5	1.29677	5	1.335285	10	1.316988
Indeno(1,2,3-cd)pyrene	0.2	1.380889	0.5	1.3924	1	1.415734	2.5	1.373258	5	1.330118	10	1.281503
Dibenzo(a,h)anthracene	0.2	1.071926	0.5	1.088443	1	1.083798	2.5	1.047672	5	1.009423	10	0.9754453
Benzo(g,h,i)perylene	0.2	1.188022	0.5	1.181172	1	1.18051	2.5	1.197183	5	1.183885	10	1.166979
1-Methylnaphthalene	0.2	0.7810586	0.5	0.8432443	1	0.9060733	2.5	0.9101682	5	0.9568681	10	0.9940132
2-Fluorophenol	0.3	1.299684	0.75	1.384053	1.5	1.36731	3.75	1.457573	7.5	1.342319	15	1.285865
Phenol-d5	0.3	1.651647	0.75	1.851428	1.5	1.768757	3.75	1.993804	7.5	1.980801	15	2.040031
2-Chlorophenol-d4	0.3	1.341176	0.75	1.38875	1.5	1.309829	3.75	1.435471	7.5	1.392197	15	1.323769
1,2-Dichlorobenzene-d4	0.2	0.902092	0.5	0.9335503	1	0.9111298	2.5	0.9782289	5	0.9440965	10	0.8975231
Nitrobenzene-d5	0.2	0.4192836	0.5	0.433171	1	0.4028568	2.5	0.4404531	5	0.4061745	10	0.4147321
2-Fluorobiphenyl	0.2	1.591893	0.5	1.626295	1	1.533165	2.5	1.71509	5	1.625736	10	1.562951
2,4,6-Tribromophenol	0.3	0.1029114	0.75	0.1222709	1.5	0.1234904	3.75	0.1500782	7.5	0.1593851	15	0.1543324
p-Terphenyl-d14	0.2	1.243606	0.5	1.241714	1	1.132168	2.5	1.226183	5	1.088886	10	1.006632

Analytical Resources, Incorporated
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INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RRF		RRF		RRF		RRF		RRF		RRF
Phenol	20	1.63105										
bis(2-chloroethyl) ether	20	1.139188										
2-Chlorophenol	20	1.383564										
1,3-Dichlorobenzene	20	1.349502										
1,4-Dichlorobenzene	20	1.082199										
1,2-Dichlorobenzene	20	1.203419										
Benzyl Alcohol	20	0.8825996										
2,2'-Oxybis(1-chloropropane)	20	0.3981807										
2-Methylphenol	20	1.073544										
Hexachloroethane	20	0.4960264										
N-Nitroso-di-n-Propylamine	20	0.7300351										
4-Methylphenol	20	1.158141										
Nitrobenzene	20	0.3753451										
Isophorone	20	0.699229										
2-Nitrophenol	20	0.2511864										
2,4-Dimethylphenol	40	0.3133511										
Bis(2-Chloroethoxy)methane	20	0.3202143										
2,4-Dichlorophenol	40	0.3285314										
1,2,4-Trichlorobenzene	20	0.2865253										
Naphthalene	20	1.020907										
Benzoic acid	80	0.1949815										
4-Chloroaniline	40	0.5443149										
Hexachlorobutadiene	20	0.1741241										
4-Chloro-3-Methylphenol	40	0.389671										
2-Methylnaphthalene	20	1.05816										
Hexachlorocyclopentadiene	40	0.3294118										
2,4,6-Trichlorophenol	40	0.4308084										
2,4,5-Trichlorophenol	40	0.4594137										

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RRF		RRF		RRF		RRF		RRF		RRF
2-Chloronaphthalene	20	1.256732										
2-Nitroaniline	40	0.3833148										
Acenaphthylene	20	1.710965										
Dimethylphthalate	20	1.056777										
2,6-Dinitrotoluene	40	0.2642654										
Acenaphthene	20	1.077944										
3-Nitroaniline	40	0.4212683										
2,4-Dinitrophenol	80	0.1808689										
Dibenzofuran	20	1.89118										
4-Nitrophenol	40	0.1436532										
2,4-Dinitrotoluene	40	0.4046626										
Fluorene	20	1.412908										
4-Chlorophenylphenyl ether	20	0.6511728										
Diethyl phthalate	20	1.060404										
4-Nitroaniline	40	0.3954563										
4,6-Dinitro-2-methylphenol	80	0.1644057										
N-Nitrosodiphenylamine	20	0.4833474										
4-Bromophenyl phenyl ether	20	0.2328862										
Hexachlorobenzene	20	0.1919563										
Pentachlorophenol	40	9.676396E-02										
Phenanthrene	20	0.9972546										
Anthracene	20	1.074262										
Carbazole	20	1.155712										
Di-n-Butylphthalate	20	1.470129										
Fluoranthene	20	1.826452										
Pyrene	20	1.817864										
Butylbenzylphthalate	20	0.5690242										
Benzo(a)anthracene	20	1.252811										

Analytical Resources, Incorporated
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INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RRF		RRF		RRF		RRF		RRF		RRF
3,3'-Dichlorobenzidine	60	0.593557										
Chrysene	20	1.088763										
bis(2-Ethylhexyl)phthalate	20	0.3616282										
Di-n-Octylphthalate	20	0.8357172										
Benzofluoranthenes, Total	40	1.330602										
Benzo(a)pyrene	20	1.282632										
Indeno(1,2,3-cd)pyrene	20	1.226787										
Dibenzo(a,h)anthracene	20	0.9154087										
Benzo(g,h,i)perylene	20	1.111799										
1-Methylnaphthalene	20	1.002638										
2-Fluorophenol	30	1.224311										
Phenol-d5	30	2.111586										
2-Chlorophenol-d4	30	1.352852										
1,2-Dichlorobenzene-d4	20	0.916436										
Nitrobenzene-d5	20	0.4150332										
2-Fluorobiphenyl	20	1.53158										
2,4,6-Tribromophenol	30	0.1597897										
p-Terphenyl-d14	20	0.9651568										

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INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.75181	4.8			RSD (15)	
bis(2-chloroethyl) ether	1.28169	7.6			RSD (15)	
2-Chlorophenol	1.453617	3.4			RSD (15)	
1,3-Dichlorobenzene	1.511438	6.4			RSD (15)	
1,4-Dichlorobenzene	1.144269	3.5			RSD (15)	
1,2-Dichlorobenzene	1.302224	4.6			RSD (15)	
Benzyl Alcohol	0.8058147	14.4			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.386224	9.0			RSD (15)	
2-Methylphenol	1.109574	2.9			RSD (15)	
Hexachloroethane	0.4948888	1.4			RSD (15)	
N-Nitroso-di-n-Propylamine	0.7783317	3.9			RSD (15)	
4-Methylphenol	1.185176	5.8			RSD (15)	
Nitrobenzene	0.3861385	2.1			RSD (15)	
Isophorone	0.5967638	13.0			RSD (15)	
2-Nitrophenol	0.2199064	13.7			RSD (15)	
2,4-Dimethylphenol	0.3393492	5.9			RSD (15)	
Bis(2-Chloroethoxy)methane	0.3522827	8.4			RSD (15)	
2,4-Dichlorophenol	0.3477772	4.4			RSD (15)	
1,2,4-Trichlorobenzene	0.3366044	9.2			RSD (15)	
Naphthalene	0.9923411	4.0			RSD (15)	
Benzoic acid	0.1282034	53.6		0.9944	QCOD (0.99)	
4-Chloroaniline	0.4807898	12.0			RSD (15)	
Hexachlorobutadiene	0.1851905	5.1			RSD (15)	
4-Chloro-3-Methylphenol	0.349471	11.5			RSD (15)	
2-Methylnaphthalene	0.9469932	9.8			RSD (15)	
Hexachlorocyclopentadiene	0.2380948	37.1		0.9974	QCOD (0.99)	
2,4,6-Trichlorophenol	0.4056237	11.0			RSD (15)	
2,4,5-Trichlorophenol	0.4261287	12.2			RSD (15)	
2-Chloronaphthalene	1.27223	3.9			RSD (15)	
2-Nitroaniline	0.3777549	6.3			RSD (15)	
Acenaphthylene	1.982326	7.8			RSD (15)	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Dimethylphthalate	1.311893	11.5			RSD (15)	
2,6-Dinitrotoluene	0.289724	4.6			RSD (15)	
Acenaphthene	1.048522	4.0			RSD (15)	
3-Nitroaniline	0.3901002	10.6			RSD (15)	
2,4-Dinitrophenol	0.1061965	69.5		0.9923	QCOD (0.99)	
Dibenzofuran	1.863201	3.7			RSD (15)	
4-Nitrophenol	0.1112987	31.7		0.9985	QCOD (0.99)	
2,4-Dinitrotoluene	0.4044297	7.7			RSD (15)	
Fluorene	1.653616	7.9			RSD (15)	
4-Chlorophenylphenyl ether	0.7401715	6.8			RSD (15)	
Diethyl phthalate	1.182501	7.0			RSD (15)	
4-Nitroaniline	0.4056112	3.9			RSD (15)	
4,6-Dinitro-2-methylphenol	0.1305331	33.3		0.9992	QCOD (0.99)	
N-Nitrosodiphenylamine	0.5982903	13.1			RSD (15)	
4-Bromophenyl phenyl ether	0.2398092	2.7			RSD (15)	
Hexachlorobenzene	0.2273318	10.6			RSD (15)	
Pentachlorophenol	6.655172E-02	45.6		0.9949	QCOD (0.99)	
Phenanthrene	0.9765836	1.7			RSD (15)	
Anthracene	1.049263	3.6			RSD (15)	
Carbazole	1.080649	5.7			RSD (15)	
Di-n-Butylphthalate	1.336924	8.8			RSD (15)	
Fluoranthene	1.750903	5.9			RSD (15)	
Pyrene	1.797004	3.6			RSD (15)	
Butylbenzylphthalate	0.7072339	13.8			RSD (15)	
Benzo(a)anthracene	1.397437	6.0			RSD (15)	
3,3'-Dichlorobenzidine	0.5559834	5.0			RSD (15)	
Chrysene	1.10785	1.7			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.3849599	3.4			RSD (15)	
Di-n-Octylphthalate	0.8815966	2.7			RSD (15)	
Benzofluoranthenes, Total	1.403964	2.5			RSD (15)	
Benzo(a)pyrene	1.299996	1.5			RSD (15)	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00053	Instrument:	NT10
Calibration Date:	08/19/2021	Column (1):	ZB-5MSi

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Indeno(1,2,3-cd)pyrene	1.342956	5.0			RSD (15)	
Dibenzo(a,h)anthracene	1.027445	6.3			RSD (15)	
Benzo(g,h,i)perylene	1.172793	2.4			RSD (15)	
1-Methylnaphthalene	0.9134377	8.8			RSD (15)	
2-Fluorophenol	1.337302	5.7			RSD (15)	
Phenol-d5	1.914008	8.5			RSD (15)	
2-Chlorophenol-d4	1.363435	3.2			RSD (15)	
1,2-Dichlorobenzene-d4	0.9261509	3.1			RSD (15)	
Nitrobenzene-d5	0.4188149	3.3			RSD (15)	
2-Fluorobiphenyl	1.598101	4.1			RSD (15)	
2,4,6-Tribromophenol	0.138894	16.2		0.9997	QCOD (0.99)	
p-Terphenyl-d14	1.129192	10.1			RSD (15)	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 8/21/2021 1:53:28PM

ANALYSIS SEQUENCE

SJH0235

Instrument: NT10 Element Column ID: J008063
Calibration ID: EH00053 Tune File: 210819.U
EM Voltage: 1900

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SJH0235-TUN1	MS Tune	QC		1	J006358	J002469	
SJH0235-CAL5	CAL 5	QC		2	J008834	J002469	
SJH0235-CAL7	CAL 20	QC		3	J008836	J002469	
SJH0235-CAL1	CAL 0.2	QC		4	J008828	J002469	
SJH0235-CAL6	CAL 10	QC		5	J008835	J002469	
SJH0235-CAL2	CAL 0.5	QC		6	J008831	J002469	
SJH0235-CAL4	CAL 2.5	QC		7	J008833	J002469	
SJH0235-CAL3	CAL 1.0	QC		8	J008832	J002469	
SJH0235-SCV1	SCV 5.0	QC		9	J008837	J002469	
SJH0235-ICB1	Initial Cal Blank	QC		10	J008838	J002469	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210819.b

	Time	Filename	LabID	ClientId	DF													
1	1435	NT1021081905.D	SJH0235-TUN1		1	|NO ISTDS FOUND||												
2	1458	NT1021081906.D	SJH0235-CAL5		1	| 9.43	97518||11.92	336155||15.53	204971||18.59	357720||23.61	291052||26.43	273109||24.64	588887|					
3	1536	NT1021081907.D	SJH0235-CAL7		1	| 9.43	63872||11.92	216866||15.54	139621||18.59	235813||23.61	196773||26.43	184324||24.64	422665|					
4	1615	NT1021081908.D	SJH0235-CAL1		1	| 9.43	111186||11.91	362380||15.53	201986||18.58	347157||23.60	271742||26.42	244625||24.63	492317|					
5	1653	NT1021081909.D	SJH0235-CAL6		1	| 9.43	76425||11.92	258836||15.53	161817||18.58	285323||23.61	226646||26.43	209239||24.64	476779|					
6	1731	NT1021081910.D	SJH0235-CAL2		1	| 9.43	104470||11.91	340466||15.53	197027||18.58	340715||23.60	268590||26.42	241218||24.63	484857|					
7	1809	NT1021081911.D	SJH0235-CAL4		1	| 9.43	83542||11.92	276508||15.53	168481||18.58	296582||23.60	238624||26.43	221651||24.64	448647|					
8	1848	NT1021081912.D	SJH0235-CAL3		1	| 9.43	98537||11.91	324274||15.53	195945||18.58	332620||23.60	268052||26.42	243444||24.63	490203|					
9	1926	NT1021081913.D	SIM-CAL2		1	| 9.43	107402||11.91	343652||15.53	193479||18.58	331995||23.60	258848||26.42	232116||24.63	437388|					
10	2004	NT1021081914.D	SIM-CAL1		1	| 9.43	109982||11.91	354966||15.53	194314||18.58	339087||23.60	264409||26.42	237449||24.64	452795|					
11	2042	NT1021081915.D	SJH0235-SCV1		1	| 9.43	86567||11.92	286011||15.54	175555||18.59	315282||23.61	260128||26.43	235857||24.64	500551|					
12	2120	NT1021081916.D	SJH0235-ICB1		1	| 9.43	96156||11.92	334081||15.53	189445||18.58	329398||23.60	256298||26.42	233002||24.63	434712|					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210819.b

Instrument: nt10.i Date: 19-AUG-2021

Time	Filename	LabID	DF	Manually Integrated Compounds
1435	NT1021081905.D	SJH0235-TUN1	1	NO MANUAL INTEGRATION
1458	NT1021081906.D	SJH0235-CAL5	1	2,2'-oxybis(1-Chloropropane),
1536	NT1021081907.D	SJH0235-CAL7	1	2,2'-oxybis(1-Chloropropane),
1615	NT1021081908.D	SJH0235-CAL1	1	Benzoic acid, 4-Nitrophenol, Pentachlorophenol, Benzo(g,h,i)perylene,
1653	NT1021081909.D	SJH0235-CAL6	1	2,2'-oxybis(1-Chloropropane),
1731	NT1021081910.D	SJH0235-CAL2	1	2,4-Dinitrophenol, 4-Nitrophenol,
1809	NT1021081911.D	SJH0235-CAL4	1	2,2'-oxybis(1-Chloropropane),
1848	NT1021081912.D	SJH0235-CAL3	1	2,2'-oxybis(1-Chloropropane), 4-Nitrophenol,
1926	NT1021081913.D	SIM-CAL2	1	NO MANUAL INTEGRATION
2004	NT1021081914.D	SIM-CAL1	1	NO MANUAL INTEGRATION
2042	NT1021081915.D	SJH0235-SCV1	1	NO MANUAL INTEGRATION
2120	NT1021081916.D	SJH0235-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 21-Aug-2021 13:54

NT1021081905.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081906.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081907.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081908.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081909.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081910.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081911.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081912.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081913.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081914.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081915.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081916.D	Data Locked	van, 21-Aug-2021 13:54

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INITIAL CALIBRATION DATA

Start Cal Date : 19-AUG-2021 14:58
End Cal Date : 19-AUG-2021 18:48
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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Last Edit : 20-Aug-2021 09:50 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20210819.b\NT1021081908.D
Level 2: \\target\share\chem3\nt10.i\20210819.b\NT1021081910.D
Level 3: \\target\share\chem3\nt10.i\20210819.b\NT1021081912.D
Level 4: \\target\share\chem3\nt10.i\20210819.b\NT1021081911.D
Level 5: \\target\share\chem3\nt10.i\20210819.b\NT1021081906.D
Level 6: \\target\share\chem3\nt10.i\20210819.b\NT1021081909.D
Level 7: \\target\share\chem3\nt10.i\20210819.b\NT1021081907.D

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	20.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
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 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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	<-

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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	1379	4597	10281	25888	78931	121195						
	214471						QUAD	0.000e+000	3.43648	-0.11982	0.99935	
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	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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)	1.51852	1.45003	1.41801	1.37158	1.30602	1.29440						
	1.19257						AVRG		1.36445		8.01984	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.78106	0.84324	0.90607	0.91017	0.95687	0.99401						
	1.00264						AVRG		0.91344		8.80948	
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 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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-Tetrachloronapthalene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
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	1.63888	1.77850	1.82124	1.82236	1.81631	1.75433						
	1.63105						AVRG		1.75181		4.77680	
4 Bis(2-Chloroethyl)ether	1.34747	1.41017	1.35860	1.28430	1.23771	1.19440						
	1.13919						AVRG		1.28169		7.57893	

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
6 2-Chlorophenol	1.41583	1.49540	1.49329	1.42535	1.52052	1.44137					
	1.38356						AVRG		1.45362		3.44886
7 1,3-Dichlorobenzene	1.54318	1.60237	1.62144	1.54722	1.48981	1.42654					
	1.34950						AVRG		1.51144		6.42352
9 1,4-Dichlorobenzene	1.10356	1.18342	1.17868	1.18208	1.14590	1.13404					
	1.08220						AVRG		1.14427		3.52554
11 Benzyl alcohol	0.62490	0.66323	0.80904	0.85274	0.92083	0.88736					
	0.88260						AVRG		0.80581		14.42306
12 1,2-Dichlorobenzene	1.28613	1.36169	1.37471	1.33120	1.29920	1.25921					
	1.20342						AVRG		1.30222		4.59802
13 2-Methylphenol	1.06128	1.10462	1.14426	1.12457	1.14484	1.11390					
	1.07354						AVRG		1.10957		2.93075
14 2,2'-oxybis(1-Chloropropane)	0.38314	0.31351	0.42400	0.38936	0.38915	0.40623					
	0.39818						AVRG		0.38622		9.02265

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 19-AUG-2021 14:58
End Cal Date : 19-AUG-2021 18:48
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Last Edit : 20-Aug-2021 09:50 van

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
15 4-Methylphenol	1.04096	1.19943	1.21546	1.21366	1.24913	1.21945					
	1.15814						AVRG		1.18518		5.83825
16 N-Nitroso-di-n-propylamine	0.74668	0.80337	0.80494	0.80190	0.79265	0.76876					
	0.73004						AVRG		0.77833		3.89741
17 Hexachloroethane	0.49035	0.48741	0.48696	0.49600	0.50469	0.50278					
	0.49603						AVRG		0.49489		1.42914
19 Nitrobenzene	0.39152	0.39301	0.38578	0.38967	0.37432	0.39332					
	0.37535						AVRG		0.38614		2.10570
20 Isophorone	0.47591	0.54013	0.55225	0.66010	0.61244	0.63729					
	0.69923						AVRG		0.59676		13.01469
21 2-Nitrophenol	0.17203	0.19364	0.21129	0.21790	0.24750	0.24579					
	0.25119						AVRG		0.21991		13.73104
22 2,4-Dimethylphenol	+++++	0.35399	0.36434	0.35123	0.32928	0.32391					
	0.31335						AVRG		0.33935		5.88723

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.36740	0.39090	0.38127	0.35712	0.31549	0.33359					
	0.32021						AVRG		0.35228		8.44895
24 Benzoic acid	+++++	6330	20902	72382	307730	478329					
	845697						QUAD	0.000e+000	5.83842	-0.18473	0.99740
25 2,4-Dichlorophenol	+++++	0.33184	0.35026	0.35224	0.36894	0.35485					
	0.32853						AVRG		0.34778		4.35774
26 1,2,4-Trichlorobenzene	0.36382	0.36844	0.35961	0.34105	0.32910	0.30769					
	0.28653						AVRG		0.33660		9.15936
28 Naphthalene	0.91755	0.97518	0.99099	1.02044	0.98739	1.03393					
	1.02091						AVRG		0.99234		3.95684
29 4-Chloroaniline	+++++	0.40789	0.41874	0.49257	0.48210	0.53912					
	0.54431						AVRG		0.48079		12.03570
30 Hexachlorobutadiene	0.17506	0.18767	0.19824	0.19585	0.18398	0.18141					
	0.17412						AVRG		0.18519		5.07895

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31 4-Chloro-3-methylphenol	+++++	0.29632	0.31304	0.33539	0.37472	0.38768					
	0.38967						AVRG		0.34947		11.49097
32 2-Methylnaphthalene	0.78906	0.87595	0.92359	0.95854	0.99499	1.02866					
	1.05816						AVRG		0.94699		9.83078
33 Hexachlorocyclopentadiene	+++++	5582	15515	47157	147671	255166					
	459928						QUAD	0.000e+000	3.49121	-0.14108	0.99892
34 2,4,6-Trichlorophenol	+++++	0.35205	0.36008	0.39078	0.45958	0.44044					
	0.43081						AVRG		0.40562		10.98244
35 2,4,5-Trichlorophenol	+++++	0.36358	0.37413	0.40526	0.48555	0.46884					
	0.45941						AVRG		0.42613		12.20052
37 2-Chloronaphthalene	1.18939	1.27122	1.24049	1.29405	1.34254	1.31120					
	1.25673						AVRG		1.27223		3.93652
38 2-Nitroaniline	+++++	0.34852	0.34848	0.38577	0.39527	0.40519					
	0.38331						AVRG		0.37775		6.33801

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	20.0000 Level 7											
39 Dimethylphthalate	1.46782	1.46619	1.37967	1.34261	1.29054	1.17963						
	1.05678						AVRG		1.31189		11.50543	
40 Acenaphthylene	2.13441	2.13059	2.05102	2.03498	1.95759	1.85673						
	1.71096						AVRG		1.98233		7.77768	
41 2,6-Dinitrotoluene	+++++	0.29551	0.29301	0.29698	0.30167	0.28690						
	0.26427						AVRG		0.28972		4.61998	
43 3-Nitroaniline	+++++	0.33902	0.33569	0.40451	0.41503	0.42509						
	0.42127						AVRG		0.39010		10.62823	
44 Acenaphthene	0.98621	1.02573	1.01037	1.06431	1.07286	1.10224						
	1.07794						AVRG		1.04852		3.98046	
45 2,4-Dinitrophenol	+++++	750	7210	35712	161882	273728						
	505062						QUAD	0.000e+000	6.56906	-0.29190	0.99706	<-
46 Dibenzofuran	1.78389	1.79768	1.80030	1.90102	1.96192	1.90641						
	1.89118						AVRG		1.86320		3.69032	

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47 4-Nitrophenol	+++++	4187	9332	23871	73030	117884	200570	QUAD	0.000e+000	7.08010	-0.09518	0.99919
48 2,4-Dinitrotoluene	+++++	0.36486	0.37196	0.41113	0.44329	0.43067	0.40466	AVRG		0.40443		7.71131
49 Fluorene	1.76646	1.77750	1.72593	1.70088	1.63472	1.55690	1.41291	AVRG		1.65362		7.93087
50 Diethylphthalate	1.27910	1.25343	1.20217	1.22467	1.17122	1.08650	1.06040	AVRG		1.18250		6.97169
51 4-Chlorophenyl-phenylether	0.78005	0.79555	0.77128	0.74773	0.73606	0.69936	0.65117	AVRG		0.74017		6.81897
52 4-Nitroaniline	+++++	0.39566	0.38767	0.40515	0.42687	0.42286	0.39546	AVRG		0.40561		3.93493
53 4,6-Dinitro-2-methylphenol	+++++	16056	40843	106663	300686	475744	775380	QUAD	0.000e+000	6.04895	0.00752	0.99959

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	20.0000 Level 7										
54 N-Nitrosodiphenylamine	0.67768	0.68801	0.64122	0.61054	0.56802	0.51921					
	0.48335						AVRG		0.59829		13.07698
56 4-Bromophenyl-phenylether	0.23494	0.25020	0.24061	0.23850	0.24634	0.23518					
	0.23289						AVRG		0.23981		2.67094
57 Hexachlorobenzene	0.24508	0.25964	0.24356	0.22879	0.21729	0.20502					
	0.19196						AVRG		0.22733		10.58556
58 Pentachlorophenol	+++++	2305	6588	19810	84152	126026					
	228182						QUAD	0.000e+000	12.03101	-1.75910	0.99689
60 Phenanthrene	0.96527	0.96040	0.96810	0.96349	1.00146	0.98011					
	0.99725						AVRG		0.97658		1.71954
61 Anthracene	0.99505	1.02396	1.04023	1.03457	1.10997	1.06680					
	1.07426						AVRG		1.04926		3.58596
62 Carbazole	1.02253	1.02934	1.02905	1.04881	1.14792	1.13117					
	1.15571						AVRG		1.08065		5.65388

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	20.0000 Level 7										
63 Di-n-butylphthalate	1.20188	1.22242	1.23676	1.33753	1.46634	1.42341					
	1.47013						AVRG		1.33692		8.81618
64 Fluoranthene	1.59578	1.69219	1.69193	1.71917	1.84978	1.88103					
	1.82645						AVRG		1.75090		5.91771
65 Pyrene	1.68866	1.76346	1.78267	1.78550	1.84596	1.89491					
	1.81786						AVRG		1.79700		3.63625
67 Butylbenzylphthalate	0.85456	0.80211	0.72711	0.68177	0.68174	0.63432					
	0.56902						AVRG		0.70723		13.75976
68 Benzo(a)anthracene	1.45145	1.46204	1.48365	1.43042	1.37357	1.32812					
	1.25281						AVRG		1.39744		5.98015
70 3,3'-Dichlorobenzidine	0.52067	0.53378	0.53868	0.54991	0.56969	0.58560					
	0.59356						AVRG		0.55598		4.95490
71 Chrysene	1.08942	1.11075	1.09637	1.10247	1.12965	1.13753					
	1.08876						AVRG		1.10785		1.73994

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	20.0000 Level 7										
72 bis(2-Ethylhexyl)phthalate	0.40551	0.38872	0.38121	0.38570	0.39054	0.38142					
	0.36163						AVRG		0.38496		3.41857
73 Di-n-octylphthalate	0.89446	0.90017	0.89022	0.89086	0.89719	0.86255					
	0.83572						AVRG		0.88160		2.69293
74 Benzo(b)fluoranthene	1.47131	1.49471	1.49976	1.45688	1.44390	1.48165					
	1.45308						AVRG		1.47162		1.45617
75 Benzo(k)fluoranthene	1.42160	1.41054	1.45256	1.48152	1.56572	1.44185					
	1.32464						AVRG		1.44263		5.07449
187 Total Benzofluoranthenes	1.43174	1.40858	1.41209	1.40556	1.43476	1.40441					
	1.33060						AVRG		1.40396		2.46603
76 Benzo(a)pyrene	1.28204	1.28684	1.29942	1.29677	1.33529	1.31699					
	1.28263						AVRG		1.30000		1.51969
78 Indeno(1,2,3-cd)pyrene	1.38089	1.39240	1.41573	1.37326	1.33012	1.28150					
	1.22679						AVRG		1.34296		5.04437

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79 Dibenzo(a,h)anthracene	1.07193	1.08844	1.08380	1.04767	1.00942	0.97545						
	0.91541						AVRG		1.02745		6.26556	
80 Benzo(g,h,i)perylene	1.18802	1.18117	1.18051	1.19718	1.18388	1.16698						
	1.11180						AVRG		1.17279		2.42015	
90 N-Nitrosodimethylamine	0.77501	0.85058	0.91174	0.92182	0.89356	0.88142						
	0.79425						AVRG		0.86120		6.65501	
91 Aniline	+++++	2.12394	2.13408	2.05249	1.96094	1.89004						
	1.83819						AVRG		1.99995		6.16022	
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
93 Benzidine	+++++	0.72871	0.72792	0.75960	0.65820	0.72439						
	0.94813						AVRG		0.75782		13.06382	
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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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	2.52298	2.79299	2.89443	2.83115	2.68914	2.59340						
	+++++						AVRG		2.72068		5.29842	

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188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.29968	1.38405	1.36731	1.45757	1.34232	1.28587						
	1.22431						AVRG		1.33730		5.66239	
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.65165	1.85143	1.76876	1.99380	1.98080	2.04003						
	2.11159						AVRG		1.91401		8.52099	
$ 5 2-Chlorophenol-d4	1.34118	1.38875	1.30983	1.43547	1.39220	1.32377						
	1.35285						AVRG		1.36343		3.24041	
$ 10 1,2-Dichlorobenzene-d4	0.90209	0.93355	0.91113	0.97823	0.94410	0.89752						
	0.91644						AVRG		0.92615		3.05628	

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$ 18 Nitrobenzene-d5	0.41928	0.43317	0.40286	0.44045	0.40617	0.41473					
	0.41503						AVRG		0.41881		3.26211
$ 36 2-Fluorobiphenyl	1.59189	1.62629	1.53316	1.71509	1.62574	1.56295					
	1.53158						AVRG		1.59810		4.05211
$ 55 2,4,6-Tribromophenol	1559	4517	9074	23705	61255	93651					
	167325						QUAD	0.000e+000	6.58249	-0.26837	0.99977
$ 66 Terphenyl-d14	1.24361	1.24171	1.13217	1.22618	1.08889	1.00663					
	0.96516						AVRG		1.12919		10.14382
$ 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 <-

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$ 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	<-

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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\nt10.i\20210819.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20210819.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT1021081906	NT1021081907	NT1021081908	NT1021081909	NT1021081910	NT1021081911	NT1021081912
INJ.DATE:	19-AUG-2021	19-AUG-2021	19-AUG-2021	19-AUG-2021	19-AUG-2021	19-AUG-2021	19-AUG-2021
INJ.TIME:	14:58	15:36	16:15	16:53	17:31	18:09	18:48

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.200	7.192	7.192	7.185	7.192	7.185	7.185	7.185	4.185-10.185	7.190	0.006
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.599	5.599-11.599	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.908	14.908-20.908	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.871	17.871-23.871	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.494	16.494-22.494	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.210	20.210-26.210	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.686	17.686-23.686	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.244	5.244-11.244	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20210819.b
Inst ID: nt10.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.672	13.672-19.672	+++++	+++++
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	24.638	24.638	24.631	24.638	24.631	24.639	24.631	24.631	21.631-27.631	24.635	0.004
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.668	12.668-18.668	+++++	+++++
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-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.498	8.498-14.498	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

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Inst ID: nt10.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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.686	7.686-13.686	+++++	+++++
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	16.261	16.269	16.269	16.261	16.269	16.261	16.261	16.261	13.261-19.261	16.264	0.004
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.057	14.057-20.057	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.049	14.049-20.049	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.632	11.632-17.632	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.948	16.956	16.948	16.948	16.948	16.948	16.941	16.941	13.941-19.941	16.948	0.004
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.366	14.366-20.366	+++++	+++++
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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.208	10.208-16.208	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.737	8.737-14.737	+++++	+++++

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Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.227	6.227-12.227	+++++	+++++
105 1-methylnaphthalene	13.576	13.577	13.576	13.576	13.576	13.577	13.577	13.577	10.577-16.577	13.576	0.000
151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.781	24.781-30.781	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.082	23.082-29.082	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.270	25.270-31.270	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.586	23.586-29.586	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.276	24.276-30.276	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.503	21.503-27.503	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.261	22.261-28.261	+++++	+++++
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	8.776	8.776	8.768	8.776	8.761	8.761	8.761	8.761	5.761-11.761	8.769	0.008
3 Phenol	8.792	8.800	8.784	8.792	8.784	8.784	8.784	8.784	5.784-11.784	8.788	0.006
4 Bis(2-Chloroethyl)ethe	8.969	8.969	8.962	8.969	8.962	8.962	8.962	8.962	5.962-11.962	8.965	0.004
$ 5 2-Chlorophenol-d4	9.070	9.070	9.062	9.070	9.070	9.062	9.062	9.062	6.062-12.062	9.066	0.004

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Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
6 2-Chlorophenol	9.101	9.101	9.093	9.101	9.093	9.093	9.093	9.093	6.093-12.093	9.096	0.004
7 1,3-Dichlorobenzene	9.372	9.372	9.364	9.372	9.364	9.364	9.364	9.364	6.364-12.364	9.367	0.004
* 8 1,4-Dichlorobenzene-d4	9.434	9.434	9.426	9.434	9.426	9.426	9.426	9.426	6.426-12.426	9.429	0.004
9 1,4-Dichlorobenzene	9.465	9.465	9.457	9.465	9.457	9.457	9.457	9.457	6.457-12.457	9.460	0.004
$ 10 1,2-Dichlorobenzene-d4	9.798	9.799	9.791	9.791	9.791	9.791	9.791	9.791	6.791-12.791	9.793	0.004
11 Benzyl alcohol	9.697	9.698	9.690	9.697	9.690	9.690	9.690	9.690	6.690-12.690	9.693	0.004
12 1,2-Dichlorobenzene	9.822	9.822	9.814	9.822	9.822	9.814	9.814	9.814	6.814-12.814	9.818	0.004
13 2-Methylphenol	9.915	9.907	9.907	9.907	9.907	9.907	9.907	9.907	6.907-12.907	9.908	0.003
14 2,2'-oxybis(1-Chloropr	9.993	9.985	9.985	9.992	9.985	9.985	9.985	9.985	6.985-12.985	9.987	0.004
15 4-Methylphenol	10.179	10.179	10.179	10.179	10.171	10.171	10.171	10.171	7.171-13.171	10.176	0.004
16 N-Nitroso-di-n-propyla	10.249	10.257	10.241	10.249	10.241	10.241	10.241	10.241	7.241-13.241	10.245	0.006
17 Hexachloroethane	10.419	10.412	10.412	10.412	10.412	10.412	10.412	10.412	7.412-13.412	10.413	0.003
$ 18 Nitrobenzene-d5	10.528	10.528	10.520	10.528	10.520	10.520	10.521	10.521	7.521-13.521	10.524	0.004
19 Nitrobenzene	10.567	10.567	10.559	10.567	10.559	10.559	10.559	10.559	7.559-13.559	10.562	0.004
20 Isophorone	11.001	11.017	11.001	11.009	11.001	11.002	11.002	11.002	8.002-14.002	11.005	0.006
21 2-Nitrophenol	11.186	11.187	11.186	11.195	11.186	11.187	11.187	11.187	8.187-14.187	11.188	0.003
22 2,4-Dimethylphenol	11.220	11.229	11.220	11.220	11.220	11.221	11.221	11.221	8.221-14.221	11.222	0.003
23 Bis(2-Chloroethoxy)met	11.424	11.424	11.415	11.424	11.416	11.416	11.416	11.416	8.416-14.416	11.419	0.005
24 Benzoic acid	11.424	11.543	11.348	11.483	11.331	11.373	11.339	11.339	8.339-14.339	11.406	0.081
25 2,4-Dichlorophenol	11.645	11.645	11.653	11.645	11.645	11.636	11.636	11.636	8.636-14.636	11.644	0.006
26 1,2,4-Trichlorobenzene	11.836	11.828	11.828	11.828	11.828	11.829	11.829	11.829	8.829-14.829	11.830	0.003
* 27 Naphthalene-d8	11.921	11.921	11.913	11.921	11.913	11.921	11.914	11.914	8.914-14.914	11.918	0.004
28 Naphthalene	11.967	11.967	11.960	11.960	11.960	11.960	11.960	11.960	8.960-14.960	11.962	0.004
29 4-Chloroaniline	12.083	12.091	12.083	12.083	12.083	12.083	12.076	12.076	9.076-15.076	12.083	0.004

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	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.315	12.307	12.307	12.307	12.307	12.307	12.307	12.307	9.307-15.307	12.308	0.003
	31 4-Chloro-3-methylpheno	13.035	13.035	13.042	13.035	13.035	13.027	13.027	13.027	10.027-16.027	13.034	0.005
	32 2-Methylnaphthalene	13.352	13.352	13.352	13.352	13.352	13.352	13.352	13.352	10.352-16.352	13.352	0.000
	33 Hexachlorocyclopentadi	13.816	13.816	13.816	13.816	13.816	13.816	13.817	13.817	10.817-16.817	13.816	0.000
	34 2,4,6-Trichlorophenol	13.971	13.971	13.971	13.971	13.971	13.971	13.971	13.971	10.971-16.971	13.971	0.000
	35 2,4,5-Trichlorophenol	14.049	14.049	14.064	14.048	14.056	14.049	14.049	14.049	11.049-17.049	14.052	0.006
$	36 2-Fluorobiphenyl	14.126	14.134	14.126	14.126	14.126	14.126	14.126	14.126	11.126-17.126	14.127	0.003
	37 2-Chloronaphthalene	14.350	14.350	14.350	14.350	14.350	14.350	14.351	14.351	11.351-17.351	14.350	0.000
	38 2-Nitroaniline	14.606	14.614	14.606	14.613	14.598	14.598	14.598	14.598	11.598-17.598	14.605	0.007
	39 Dimethylphthalate	15.024	15.032	15.016	15.024	15.016	15.016	15.016	15.016	12.016-18.016	15.020	0.006
	40 Acenaphthylene	15.225	15.233	15.225	15.225	15.225	15.225	15.225	15.225	12.225-18.225	15.226	0.003
	41 2,6-Dinitrotoluene	15.171	15.179	15.171	15.171	15.163	15.163	15.163	15.163	12.163-18.163	15.169	0.006
*	42 Acenaphthene-d10	15.535	15.542	15.534	15.534	15.535	15.535	15.535	15.535	12.535-18.535	15.536	0.003
	43 3-Nitroaniline	15.457	15.473	15.465	15.465	15.457	15.457	15.457	15.457	12.457-18.457	15.462	0.006
	44 Acenaphthene	15.604	15.604	15.604	15.604	15.604	15.604	15.597	15.597	12.597-18.597	15.603	0.003
	45 2,4-Dinitrophenol	15.674	15.689	+++++	15.681	15.674	15.666	15.674	15.674	12.674-18.674	15.676	0.008
	46 Dibenzofuran	15.929	15.937	15.929	15.929	15.929	15.929	15.929	15.929	12.929-18.929	15.930	0.003
	47 4-Nitrophenol	15.766	15.782	15.813	15.774	15.797	15.774	15.782	15.782	12.782-18.782	15.784	0.016
	48 2,4-Dinitrotoluene	15.983	15.991	15.975	15.983	15.975	15.975	15.975	15.975	12.975-18.975	15.980	0.006
	49 Fluorene	16.648	16.648	16.640	16.648	16.640	16.640	16.640	16.640	13.640-19.640	16.643	0.004
	50 Diethylphthalate	16.478	16.493	16.470	16.478	16.470	16.470	16.470	16.470	13.470-19.470	16.475	0.009
	51 4-Chlorophenyl-phenyle	16.624	16.625	16.624	16.624	16.617	16.617	16.617	16.617	13.617-19.617	16.621	0.004
	52 4-Nitroaniline	16.740	16.763	16.740	16.748	16.732	16.725	16.725	16.725	13.725-19.725	16.739	0.014
	53 4,6-Dinitro-2-methylph	16.825	16.848	16.825	16.833	16.825	16.817	16.817	16.817	13.817-19.817	16.827	0.011

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Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20210819.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
54 N-Nitrosodiphenylamine	16.871	16.887	16.871	16.879	16.871	16.871	16.871	16.871	13.871-19.871	16.875	0.006
$ 55 2,4,6-Tribromophenol	17.180	17.187	17.187	17.180	17.180	17.180	17.180	17.180	14.180-20.180	17.182	0.004
56 4-Bromophenyl-phenylet	17.627	17.635	17.627	17.627	17.627	17.627	17.627	17.627	14.627-20.627	17.628	0.003
57 Hexachlorobenzene	17.951	17.959	17.959	17.959	17.951	17.951	17.952	17.952	14.952-20.952	17.955	0.004
58 Pentachlorophenol	18.315	18.315	18.338	18.315	18.323	18.315	18.315	18.315	15.315-21.315	18.320	0.009
* 59 Phenanthrene-d10	18.586	18.586	18.578	18.578	18.578	18.578	18.578	18.578	15.578-21.578	18.581	0.004
60 Phenanthrene	18.632	18.640	18.632	18.632	18.625	18.633	18.625	18.625	15.625-21.625	18.631	0.005
61 Anthracene	18.725	18.733	18.725	18.725	18.725	18.725	18.718	18.718	15.718-21.718	18.725	0.004
62 Carbazole	19.050	19.050	19.050	19.050	19.050	19.043	19.043	19.043	16.043-22.043	19.048	0.004
63 Di-n-butylphthalate	19.808	19.809	19.808	19.808	19.808	19.809	19.801	19.801	16.801-22.801	19.807	0.003
64 Fluoranthene	21.000	21.000	21.000	21.000	20.992	21.000	20.992	20.992	17.992-23.992	20.998	0.004
65 Pyrene	21.425	21.426	21.418	21.425	21.418	21.426	21.418	21.418	18.418-24.418	21.422	0.004
$ 66 Terphenyl-d14	21.689	21.689	21.688	21.689	21.689	21.689	21.689	21.689	18.689-24.689	21.689	0.000
67 Butylbenzylphthalate	22.594	22.602	22.594	22.594	22.594	22.595	22.595	22.595	19.595-25.595	22.596	0.003
68 Benzo(a)anthracene	23.578	23.586	23.570	23.578	23.570	23.578	23.570	23.570	20.570-26.570	23.576	0.006
* 69 Chrysene-d12	23.609	23.609	23.601	23.609	23.601	23.601	23.601	23.601	20.601-26.601	23.604	0.004
70 3,3'-Dichlorobenzidine	23.524	23.539	23.523	23.531	23.524	23.524	23.524	23.524	20.524-26.524	23.527	0.006
71 Chrysene	23.647	23.663	23.647	23.655	23.647	23.648	23.648	23.648	20.648-26.648	23.651	0.006
72 bis(2-Ethylhexyl)phtha	23.609	23.617	23.609	23.616	23.609	23.609	23.609	23.609	20.609-26.609	23.611	0.004
73 Di-n-octylphthalate	24.646	24.654	24.646	24.646	24.646	24.646	24.646	24.646	21.646-27.646	24.647	0.003
74 Benzo(b)fluoranthene	25.575	25.591	25.567	25.583	25.567	25.575	25.575	25.575	22.575-28.575	25.576	0.008
75 Benzo(k)fluoranthene	25.622	25.637	25.621	25.629	25.622	25.622	25.622	25.622	22.622-28.622	25.625	0.006
187 Total Benzofluoranthen	25.622	25.637	25.621	25.629	25.622	25.622	25.622	25.622	22.622-28.622	25.625	0.006
76 Benzo(a)pyrene	26.295	26.311	26.295	26.303	26.295	26.295	26.295	26.295	23.295-29.295	26.299	0.006

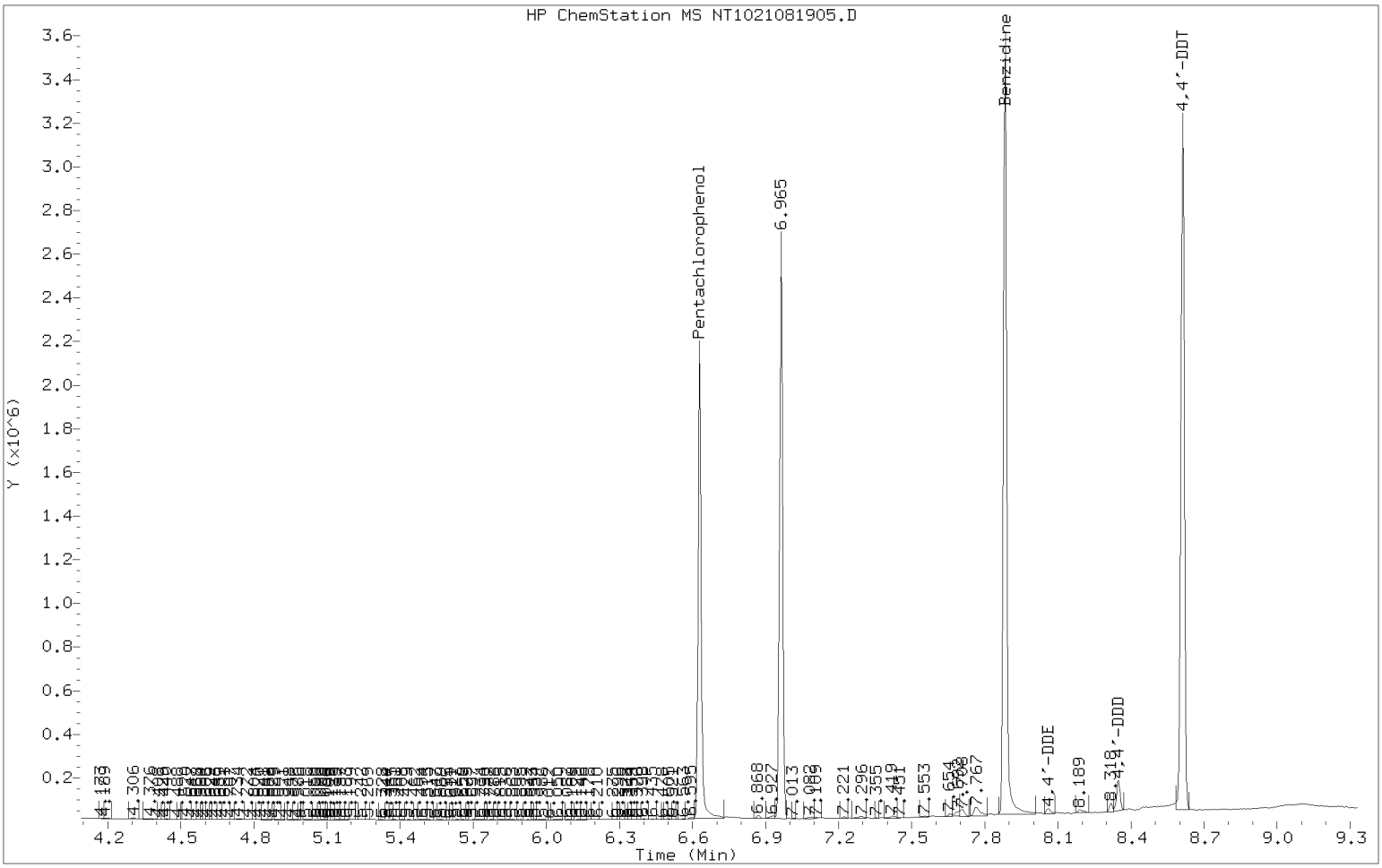
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

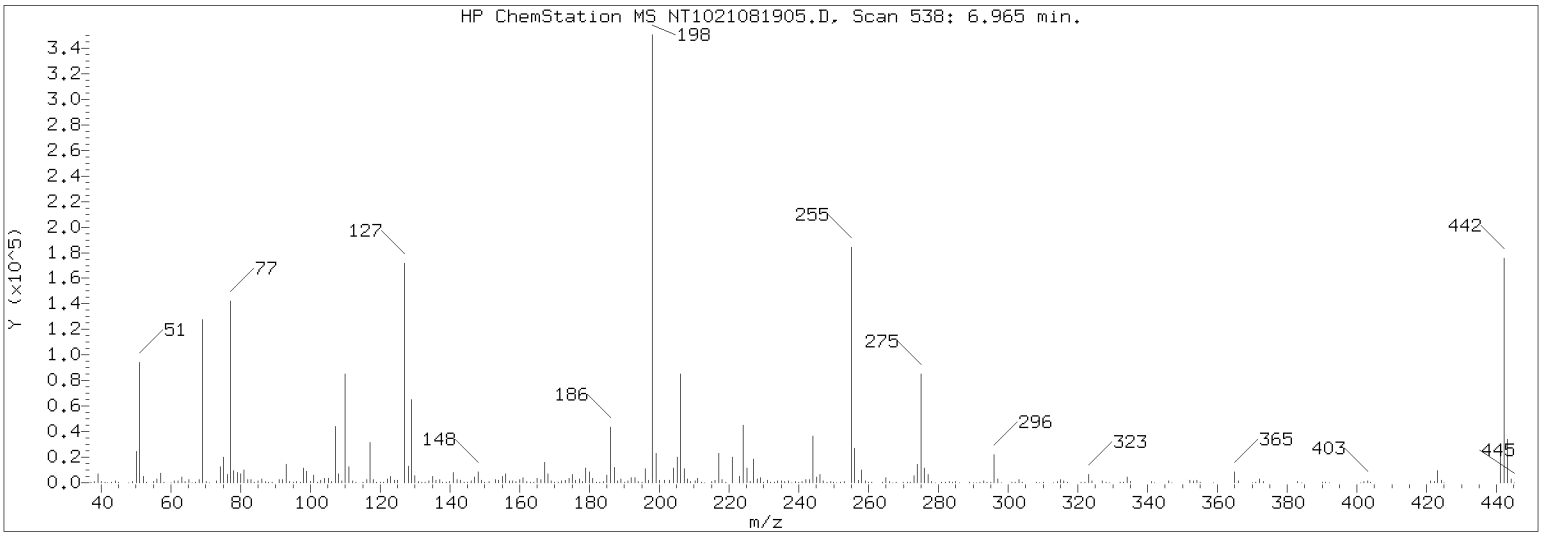
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20210819.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 77 Perylene-d12	26.427	26.427	26.419	26.427	26.419	26.427	26.419	26.419	23.419-29.419	26.424	0.004
78 Indeno(1,2,3-cd)pyrene	29.394	29.418	29.379	29.402	29.387	29.371	29.371	29.371	26.371-32.371	29.389	0.017
79 Dibenzo(a,h)anthracene	29.402	29.433	29.402	29.418	29.402	29.395	29.387	29.387	26.387-32.387	29.406	0.015
80 Benzo(g,h,i)perylene	30.272	30.303	30.256	30.288	30.257	30.264	30.257	30.257	27.257-33.257	30.271	0.018
$ 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 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
90 N-Nitrosodimethylamine	5.045	5.029	5.022	5.022	5.014	5.014	5.022	5.022	2.022-8.022	5.024	0.011
91 Aniline	8.892	8.892	8.884	8.884	8.877	8.877	8.877	8.877	5.877-11.877	8.883	0.007
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
93 Benzidine	21.217	21.224	21.224	21.224	21.224	21.217	21.217	21.217	18.217-24.217	21.221	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	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.248	15.248-21.248	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.008	23.008-29.008	+++++	+++++
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	5.068	5.037	5.076	5.045	5.060	5.045	5.053	5.053	2.053-8.053	5.055	0.014
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: /20210819.b/NT1021081905.D/NT1021081905.D
Method Used: \20210819.b\DFTPP8270E.m Inst: nt10
Injection Date: 19-AUG-2021 14:35 Operator: YZ/VTS
Sample Info: SJH0235-TUN1 SJH0235-TUN1
Report Date: 08/20/2021 12:56





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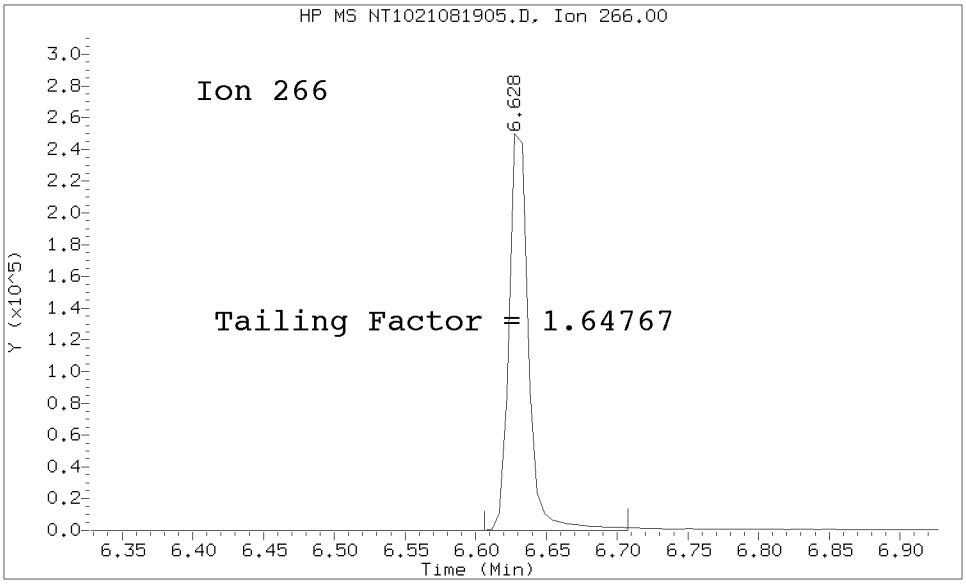
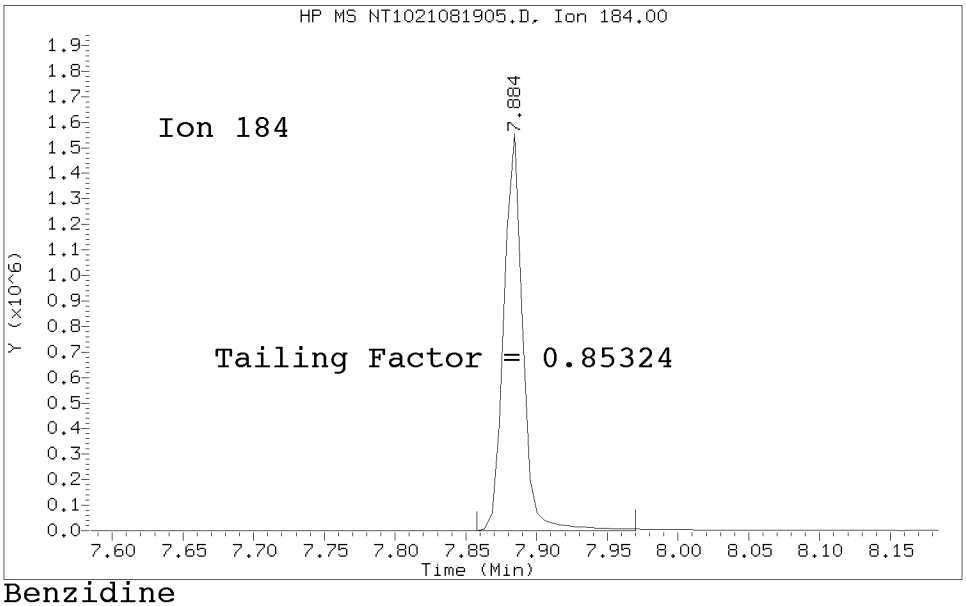
Injection Date: 19-AUG-2021 14:35 Operator: YZ/VTS
Sample Info: SJH0235-TUN1
Report Date: 08/20/2021 12:56



Pentachlorophenol
==========
Exp. RT = 6.627
Found RT = 6.628

Tail Factor = 1.648 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.890
Found RT = 7.884

Tail Factor = 0.853 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.6476684	2.000	PASS
Benzidine	0.8532423	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	650075			N/A
4,4-DDE	2478	0.4	20.0	PASS
4,4-DDD	27913	4.1	20.0	PASS
4,4-DDD + DDE	30391	4.5	20.0	PASS

Tuning Sample, nt10.i/20210819.b/NT1021081905.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	0.65 (1.73)
69	Mass 69 relative abundance	37.22
70	Less than 2.00% of mass 69	0.17 (0.47)
197	Less than 2.00% of mass 198	0.37
199	5.00 - 9.00% of mass 198	6.67
365	1.00 - 100.00% of mass 198	2.48
441	Less than 150.00% of mass 443	7.91 (77.63)
442	Less than 200.00% of mass 198	53.27
443	15.00 - 24.00% of mass 442	10.20 (19.14)

Data File: NT1021081905.D
Spectrum: Avg. Scans 537-539 (6.96), Background Scan 532
Location of Maximum: 198.00
Number of points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	344	122.00	2122	198.00	269696	281.00	34
38.00	956	123.00	3696	199.00	17992	282.00	196
39.00	5577	124.00	1568	200.00	1448	283.00	667
40.00	188	125.00	1551	201.00	1105	284.00	453
41.00	21	127.00	133056	203.00	1502	285.00	874
44.00	43	128.00	9989	204.00	9033	286.00	117
45.00	33	129.00	50272	205.00	15831	289.00	236
47.00	77	130.00	4225	206.00	65448	290.00	107
48.00	103	131.00	598	207.00	8326	291.00	71
49.00	478	132.00	488	208.00	2139	292.00	251
50.00	19736	133.00	15	209.00	588	293.00	1122
51.00	73632	134.00	1355	210.00	1108	294.00	262
52.00	3968	135.00	3719	211.00	2561	295.00	266
53.00	258	136.00	1656	212.00	209	296.00	16936
55.00	37	137.00	1759	213.00	188	297.00	2290
56.00	2234	138.00	426	215.00	402	298.00	109
57.00	5342	139.00	279	216.00	1174	301.00	246
58.00	356	140.00	569	217.00	18048	302.00	336
59.00	56	141.00	6109	218.00	2225	303.00	2049
60.00	176	142.00	2053	219.00	248	304.00	569
61.00	1045	143.00	1504	221.00	15202	308.00	244
62.00	1186	144.00	360	222.00	1640	309.00	121
63.00	3519	145.00	198	223.00	3894	310.00	252
64.00	430	146.00	1198	224.00	35336	313.00	134
65.00	1779	147.00	2947	225.00	8829	314.00	757
66.00	185	148.00	6817	226.00	916	315.00	1989
68.00	1740	149.00	1213	227.00	14281	316.00	985
69.00	100384	150.00	433	228.00	2085	317.00	212
70.00	471	151.00	843	229.00	3094	321.00	500
73.00	659	152.00	249	230.00	329	322.00	228
74.00	9672	153.00	1956	231.00	1440	323.00	5227
75.00	15416	154.00	1605	232.00	310	324.00	1074
76.00	5213	155.00	3571	233.00	300	327.00	991
77.00	111000	156.00	5362	234.00	1115	328.00	546
78.00	7473	157.00	1086	235.00	1106	329.00	60
79.00	6291	158.00	1135	236.00	764	332.00	380
80.00	5535	159.00	905	237.00	1292	333.00	496
81.00	7358	160.00	1962	238.00	241	334.00	3387
82.00	1843	161.00	2730	239.00	662	335.00	836
83.00	1896	162.00	662	240.00	486	336.00	51
84.00	62	163.00	365	241.00	902	341.00	644
85.00	1222	164.00	310	242.00	1876	342.00	197
86.00	2004	165.00	2382	243.00	2006	346.00	1086
87.00	1035	166.00	1883	244.00	28392	347.00	223
88.00	412	167.00	12081	245.00	3787	352.00	1543
89.00	260	168.00	5304	246.00	4993	353.00	1141
91.00	1352	169.00	1099	247.00	1150	354.00	1539
92.00	1713	170.00	455	248.00	234	355.00	336
93.00	11076	171.00	580	249.00	1013	359.00	60

94.00	694	172.00	1132	250.00	213	365.00	6691
95.00	10	173.00	1536	251.00	249	366.00	983
96.00	501	174.00	2618	252.00	278	370.00	80
97.00	108	175.00	4792	253.00	675	371.00	405
98.00	9069	176.00	1415	255.00	144064	372.00	2657
99.00	7146	177.00	2240	256.00	21368	373.00	614
100.00	668	178.00	758	257.00	1552	383.00	675
101.00	4613	179.00	8999	258.00	7812	384.00	132
102.00	196	180.00	6363	259.00	1284	390.00	327
103.00	1415	181.00	3049	260.00	247	391.00	253
104.00	2963	182.00	565	261.00	184	392.00	114
105.00	2261	183.00	337	264.00	220	401.00	141
106.00	652	184.00	886	265.00	3201	402.00	861
107.00	33688	185.00	4639	266.00	422	403.00	1334
108.00	5138	186.00	33880	267.00	108	404.00	405
109.00	986	187.00	9503	268.00	125	421.00	1076
110.00	64760	188.00	1019	270.00	244	422.00	994
111.00	9645	189.00	2062	271.00	289	423.00	7627
112.00	1273	190.00	317	272.00	407	424.00	1542
113.00	404	191.00	1085	273.00	4311	425.00	129
114.00	52	192.00	2829	274.00	11458	441.00	21344
115.00	106	193.00	3179	275.00	66816	442.00	143680
116.00	1902	194.00	648	276.00	8837	443.00	27496
117.00	24328	195.00	521	277.00	5117	444.00	2538
118.00	1877	196.00	8340	278.00	869	445.00	122
120.00	340	197.00	1004	279.00	61		

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081906.D

Page 1

Date : 19-AUG-2021 14:58

Client ID:

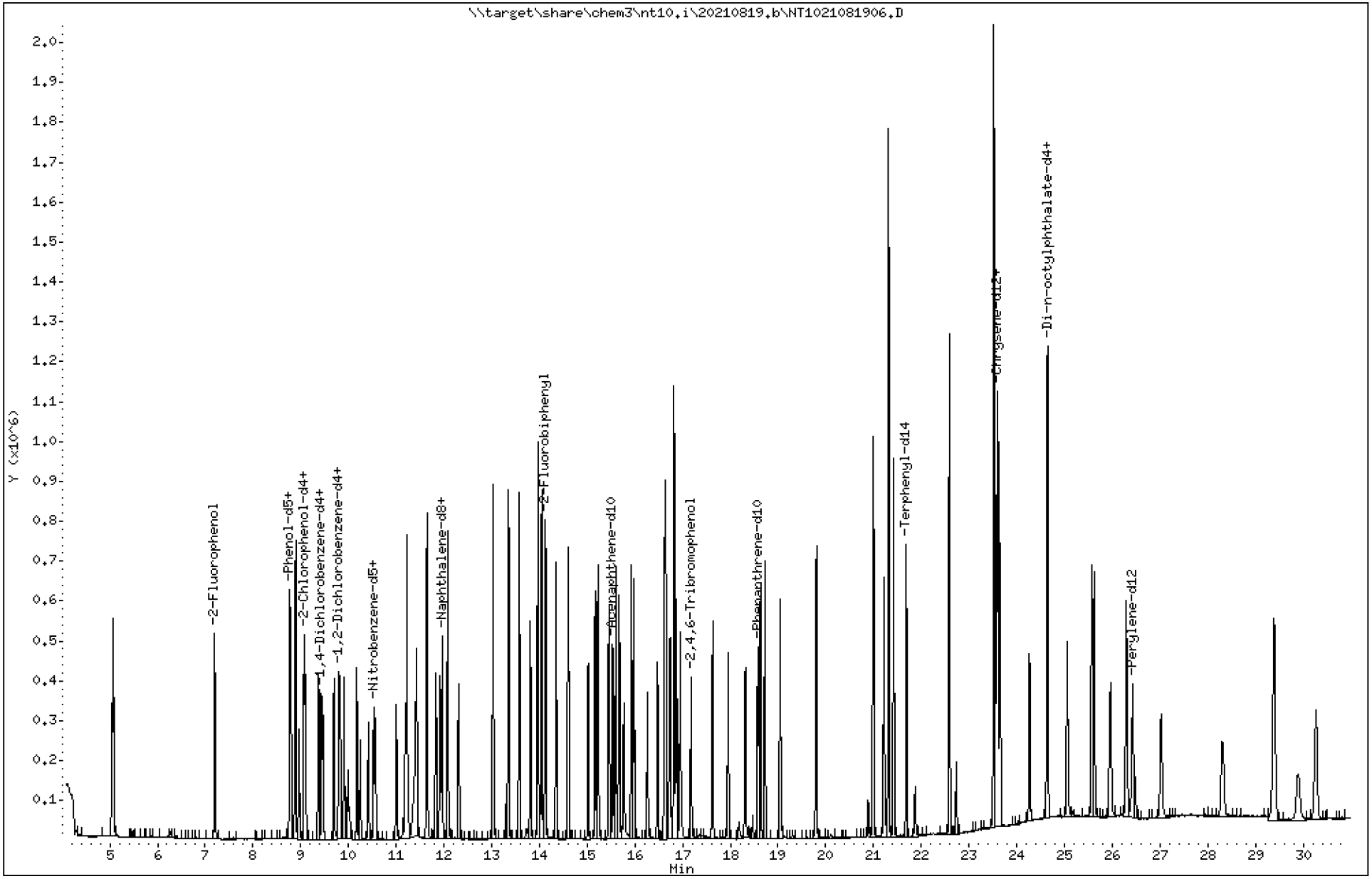
Instrument: nt10.i

Sample Info: SJH0235-CAL5

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 19-AUG-2021 14:58
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1 2-Fluorophenol	112	7.200	7.184	(0.763)	245438	7.50000	7.528
$ 2 Phenol-d5	99	8.776	8.761	(0.930)	362182	7.50000	7.762
3 Phenol	94	8.791	8.784	(0.932)	221404	5.00000	5.184
$ 5 2-Chlorophenol-d4	132	9.069	9.062	(0.961)	254558	7.50000	7.658
4 Bis(2-Chloroethyl)ether	93	8.969	8.961	(0.951)	150874	5.00000	4.828
6 2-Chlorophenol	128	9.100	9.093	(0.965)	185348	5.00000	5.230
7 1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	181604	5.00000	4.928
* 8 1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	97518	4.00000	
9 1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	139682	5.00000	5.007
$ 10 1,2-Dichlorobenzene-d4	152	9.798	9.790	(1.039)	115083	5.00000	5.097
12 1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	158369	5.00000	4.988
11 Benzyl alcohol	108	9.697	9.689	(1.028)	112247	5.00000	5.714
14 2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	47436	5.00000	5.038(M)
13 2-Methylphenol	108	9.914	9.907	(1.051)	139553	5.00000	5.159
17 Hexachloroethane	117	10.419	10.411	(1.104)	61520	5.00000	5.099
16 N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	96622	5.00000	5.092
15 4-Methylphenol	108	10.178	10.171	(1.079)	152266	5.00000	5.270
$ 18 Nitrobenzene-d5	82	10.528	10.520	(0.883)	170672	5.00000	4.849
19 Nitrobenzene	77	10.566	10.559	(0.886)	157285	5.00000	4.847
20 Isophorone	82	11.001	11.001	(0.923)	257345	5.00000	5.131
21 2-Nitrophenol	139	11.186	11.186	(0.938)	104000	5.00000	5.628
22 2,4-Dimethylphenol	107	11.220	11.220	(0.941)	276719	10.0000	9.703
23 Bis(2-Chloroethoxy)methane	93	11.424	11.415	(0.958)	132565	5.00000	4.478
24 Benzoic acid	105	11.424	11.339	(0.958)	307730	20.0000	20.76
25 2,4-Dichlorophenol	162	11.644	11.636	(0.977)	310052	10.0000	10.61
26 1,2,4-Trichlorobenzene	180	11.836	11.828	(0.993)	138287	5.00000	4.889
* 27 Naphthalene-d8	136	11.921	11.913	(1.000)	336155	4.00000	
28 Naphthalene	128	11.967	11.959	(1.004)	414896	5.00000	4.975
29 4-Chloroaniline	127	12.083	12.075	(1.014)	405151	10.0000	10.03
30 Hexachlorobutadiene	225	12.315	12.307	(1.033)	77306	5.00000	4.967
31 4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	314906	10.0000	10.72
32 2-Methylnaphthalene	142	13.352	13.352	(1.120)	418088	5.00000	5.253
33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	147671	10.0000	9.768

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	235501	10.0000	11.33
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	248811	10.0000	11.39
$	36 2-Fluorobiphenyl	172	14.125	14.126	(0.909)	416536	5.00000	5.086
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	343977	5.00000	5.276
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	202545	10.0000	10.46
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	330653	5.00000	4.919
	40 Acenaphthylene	152	15.225	15.225	(0.980)	501561	5.00000	4.938
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.977)	154584	10.0000	10.41
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	204971	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	212671	10.0000	10.64
	44 Acenaphthene	153	15.604	15.596	(1.004)	274881	5.00000	5.116
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.009)	161882	20.0000	20.02
	46 Dibenzofuran	168	15.928	15.928	(1.025)	502671	5.00000	5.265
	47 4-Nitrophenol	109	15.766	15.782	(1.015)	73030	10.0000	10.04
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.029)	227152	10.0000	10.96
	50 Diethylphthalate	149	16.477	16.470	(1.061)	300083	5.00000	4.952
	49 Fluorene	166	16.647	16.640	(1.072)	418838	5.00000	4.943
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	188589	5.00000	4.972
	52 4-Nitroaniline	138	16.740	16.724	(1.078)	218741	10.0000	10.52
	53 4,6-Dinitro-2-methylphenol	198	16.824	16.817	(0.905)	300686	20.0000	20.36
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	253992	5.00000	4.747
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	61255	7.50000	7.773
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.948)	110152	5.00000	5.136
	57 Hexachlorobenzene	284	17.951	17.951	(0.966)	97160	5.00000	4.779
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	84152	10.0000	10.93
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	357720	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.002)	447804	5.00000	5.127
	61 Anthracene	178	18.725	18.717	(1.007)	496324	5.00000	5.289
	62 Carbazole	167	19.050	19.042	(1.025)	513293	5.00000	5.311
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	655674	5.00000	5.484
	64 Fluoranthene	202	20.999	20.992	(0.889)	672979	5.00000	5.282
	65 Pyrene	202	21.425	21.417	(0.908)	671589	5.00000	5.136
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	396153	5.00000	4.822
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	248026	5.00000	4.820
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	499727	5.00000	4.915
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	291052	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.996)	621790	15.0000	15.37
	71 Chrysene	228	23.647	23.647	(1.002)	410985	5.00000	5.098
	72 bis(2-Ethylhexyl)phthalate	149	23.608	23.608	(0.958)	287480	5.00000	5.072
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	588887	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	660428	5.00000	5.088
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	492927	5.00000	4.906
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	534515	5.00000	5.427
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	455848	5.00000	5.136
*	77 Perylene-d12	264	26.426	26.419	(1.000)	273109	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.394	29.371	(1.112)	454084	5.00000	4.952
	79 Dibenzo(a,h)anthracene	278	29.402	29.386	(1.113)	344603	5.00000	4.912
	80 Benzo(g,h,i)perylene	276	30.272	30.256	(1.146)	404162	5.00000	5.047
	90 N-Nitrosodimethylamine	74	5.044	5.021	(0.535)	217846	10.0000	10.38
	91 Aniline	93	8.892	8.876	(0.943)	478068	10.0000	9.805
	93 Benzidine	184	21.216	21.216	(0.899)	478924	10.0000	8.685
	103 Pyridine	79	5.067	5.052	(0.537)	327799	5.00000	4.942
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	402070	5.00000	5.238
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.091)	334621	5.00000	4.786

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.621	25.621	(0.970)	979616	10.0000	10.22
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.047)	78931	5.00000	5.222

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081906.D Page 1
Report Date: 21-Aug-2021 12:16

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081906.D
Lab Smp Id: SJH0235-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	97518	0.00
27 Naphthalene-d8	336155	168078	672310	336155	0.00
42 Acenaphthene-d10	204971	102486	409942	204971	0.00
59 Phenanthrene-d10	357720	178860	715440	357720	0.00
69 Chrysene-d12	291052	145526	582104	291052	0.00
134 Di-n-octylphthala	588887	294444	1177774	588887	0.00
77 Perylene-d12	273109	136555	546218	273109	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081906.D

Lab ID: SJH0235-CAL5
nt10.i, ABN.m, 19-AUG-2021 14:58

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.958	0.952	0.0065	Benzoic acid

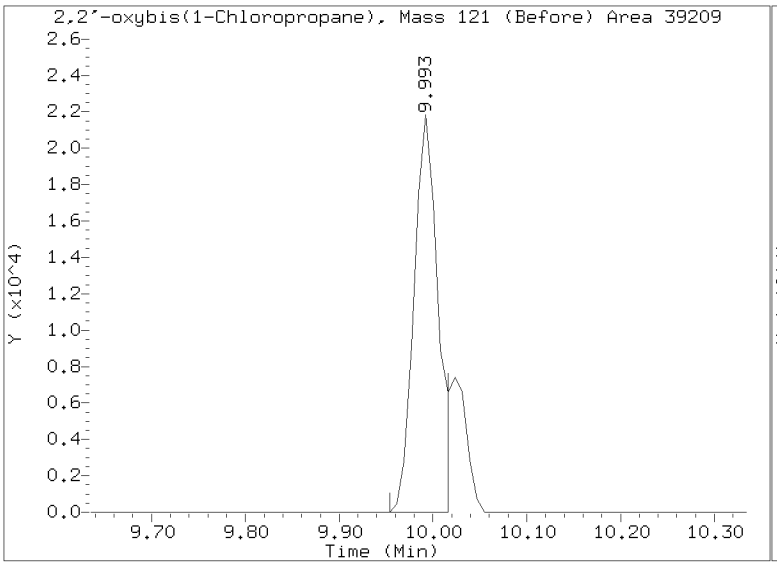
RRT check based on Ccal File: NT1021081912.D

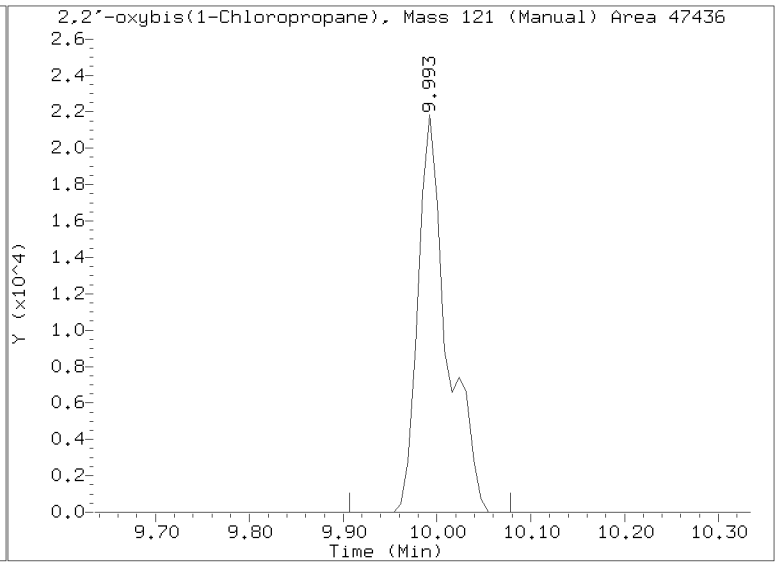
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081906.D
Injection Date: 19-AUG-2021 14:58
Lab ID:SJH0235-CAL5 Client ID:
Report Date: 08/21/2021 12:16





Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081907.D

Date : 19-AUG-2021 15:36

Client ID:

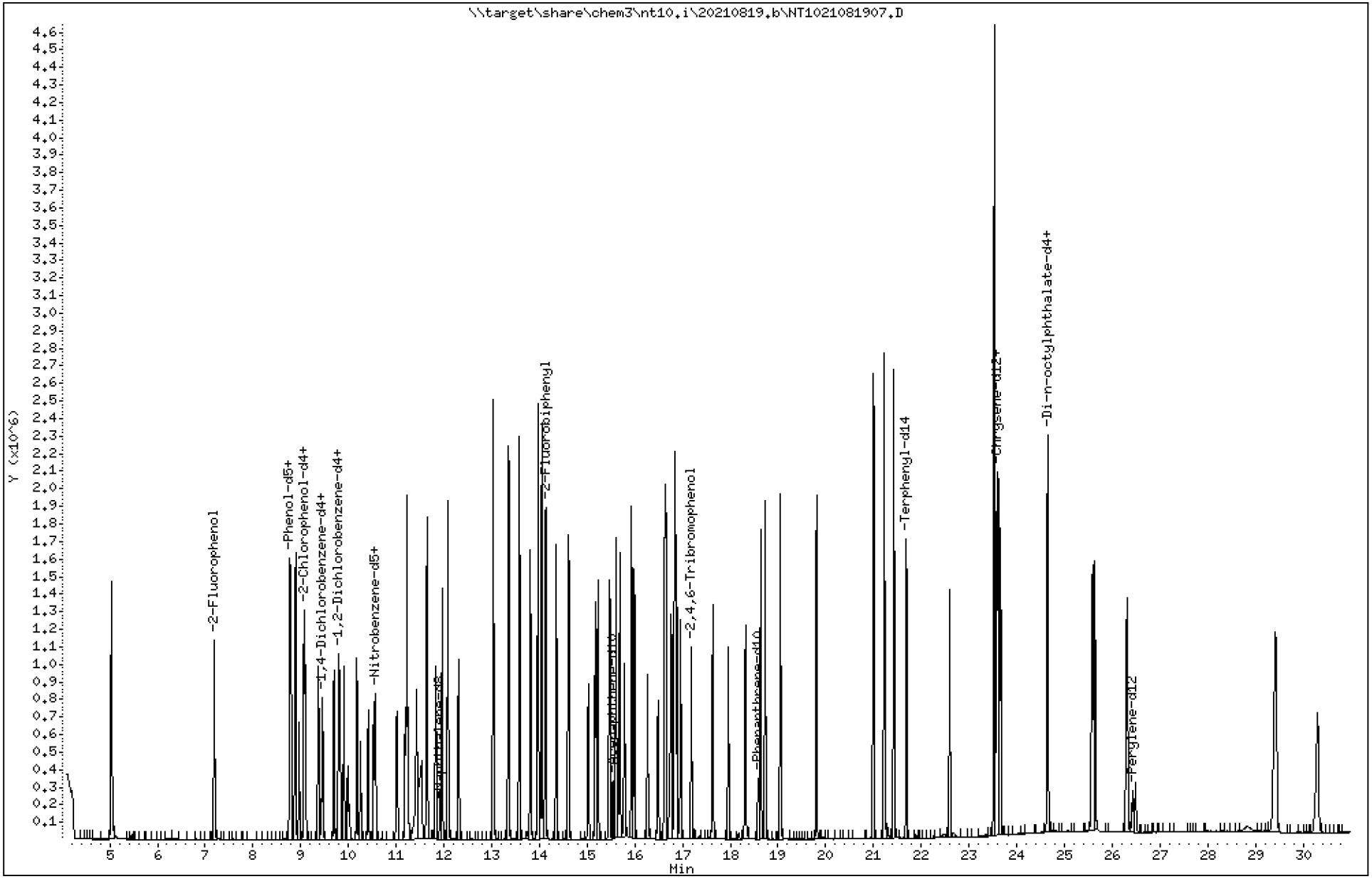
Instrument: nt10.i

Sample Info: SJH0235-CAL7

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



21H0263 CLPLIKE(Rev0) - Page 519 of 1576

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081907.D
Lab Smp Id: SJH0235-CAL7
Inj Date : 19-AUG-2021 15:36
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.192	7.184	(0.762)	586494	30.0000	27.47
$	2 Phenol-d5	99	8.776	8.761	(0.930)	1011534	30.0000	33.10
	3 Phenol	94	8.799	8.784	(0.933)	520892	20.0000	18.62
$	5 2-Chlorophenol-d4	132	9.069	9.062	(0.961)	648070	30.0000	29.77
	4 Bis(2-Chloroethyl)ether	93	8.969	8.961	(0.951)	363811	20.0000	17.78
	6 2-Chlorophenol	128	9.100	9.093	(0.965)	441855	20.0000	19.04
	7 1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	430977	20.0000	17.86
*	8 1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	63872	4.00000	
	9 1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	345611	20.0000	18.92
$	10 1,2-Dichlorobenzene-d4	152	9.798	9.790	(1.039)	292673	20.0000	19.79
	12 1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	384324	20.0000	18.48
	11 Benzyl alcohol	108	9.697	9.689	(1.028)	281867	20.0000	21.91
	14 2,2'-oxybis(1-Chloropropane)	121	9.984	9.984	(1.058)	127163	20.0000	20.62(M)
	13 2-Methylphenol	108	9.907	9.907	(1.050)	342847	20.0000	19.35
	17 Hexachloroethane	117	10.411	10.411	(1.104)	158411	20.0000	20.05
	16 N-Nitroso-di-n-propylamine	70	10.256	10.241	(1.087)	233144	20.0000	18.76
	15 4-Methylphenol	108	10.178	10.171	(1.079)	369864	20.0000	19.54
$	18 Nitrobenzene-d5	82	10.528	10.520	(0.883)	450033	20.0000	19.82
	19 Nitrobenzene	77	10.566	10.559	(0.886)	406998	20.0000	19.44
	20 Isophorone	82	11.017	11.001	(0.924)	758195	20.0000	23.43
	21 2-Nitrophenol	139	11.186	11.186	(0.938)	272369	20.0000	22.84
	22 2,4-Dimethylphenol	107	11.228	11.220	(0.942)	679552	40.0000	36.94
	23 Bis(2-Chloroethoxy)methane	93	11.424	11.415	(0.958)	347218	20.0000	18.18
	24 Benzoic acid	105	11.542	11.339	(0.968)	845697	80.0000	79.83
	25 2,4-Dichlorophenol	162	11.644	11.636	(0.977)	712473	40.0000	37.79
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	310688	20.0000	17.02
*	27 Naphthalene-d8	136	11.921	11.913	(1.000)	216866	4.00000	
	28 Naphthalene	128	11.967	11.959	(1.004)	1107000	20.0000	20.58
	29 4-Chloroaniline	127	12.090	12.075	(1.014)	1180434	40.0000	45.29
	30 Hexachlorobutadiene	225	12.307	12.307	(1.032)	188808	20.0000	18.80
	31 4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	845064	40.0000	44.60
	32 2-Methylnaphthalene	142	13.352	13.352	(1.120)	1147395	20.0000	22.35
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	459928	40.0000	39.88

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	601499	40.0000	42.48
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	641438	40.0000	43.12
$	36 2-Fluorobiphenyl	172	14.133	14.126	(0.909)	1069204	20.0000	19.17
	37 2-Chloronaphthalene	162	14.350	14.350	(0.923)	877331	20.0000	19.76
	38 2-Nitroaniline	65	14.613	14.598	(0.940)	535188	40.0000	40.59
	39 Dimethylphthalate	163	15.031	15.016	(0.967)	737741	20.0000	16.11
	40 Acenaphthylene	152	15.232	15.225	(0.980)	1194433	20.0000	17.26
	41 2,6-Dinitrotoluene	165	15.178	15.163	(0.977)	368970	40.0000	36.49
*	42 Acenaphthene-d10	164	15.542	15.534	(1.000)	139621	4.00000	
	43 3-Nitroaniline	138	15.472	15.457	(0.996)	588179	40.0000	43.20
	44 Acenaphthene	153	15.604	15.596	(1.004)	752518	20.0000	20.56
	45 2,4-Dinitrophenol	184	15.689	15.674	(1.009)	505062	80.0000	79.77
	46 Dibenzofuran	168	15.936	15.928	(1.025)	1320242	20.0000	20.30
	47 4-Nitrophenol	109	15.781	15.782	(1.015)	200570	40.0000	39.90
	48 2,4-Dinitrotoluene	165	15.990	15.975	(1.029)	564994	40.0000	40.02
	50 Diethylphthalate	149	16.493	16.470	(1.061)	740273	20.0000	17.93
	49 Fluorene	166	16.647	16.640	(1.071)	986358	20.0000	17.09
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	454587	20.0000	17.60
	52 4-Nitroaniline	138	16.763	16.724	(1.079)	552140	40.0000	39.00
	53 4,6-Dinitro-2-methylphenol	198	16.848	16.817	(0.906)	775380	80.0000	79.88
	54 N-Nitrosodiphenylamine	169	16.886	16.871	(0.909)	569898	20.0000	16.16
$	55 2,4,6-Tribromophenol	330	17.187	17.180	(1.106)	167325	30.0000	30.01
	56 4-Bromophenyl-phenylether	248	17.634	17.627	(0.949)	274588	20.0000	19.42
	57 Hexachlorobenzene	284	17.959	17.951	(0.966)	226329	20.0000	16.89
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	228182	40.0000	39.98
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	235813	4.00000	
	60 Phenanthrene	178	18.640	18.624	(1.003)	1175828	20.0000	20.42
	61 Anthracene	178	18.733	18.717	(1.008)	1266625	20.0000	20.48
	62 Carbazole	167	19.050	19.042	(1.025)	1362660	20.0000	21.39
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	1733378	20.0000	21.99
	64 Fluoranthene	202	21.000	20.992	(0.889)	1796982	20.0000	20.86
	65 Pyrene	202	21.425	21.417	(0.908)	1788533	20.0000	20.23
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	949584	20.0000	17.09
	67 Butylbenzylphthalate	149	22.602	22.594	(0.957)	559843	20.0000	16.09
	68 Benzo(a)anthracene	228	23.585	23.570	(0.999)	1232597	20.0000	17.93
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	196773	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.539	23.523	(0.997)	1751940	60.0000	64.05
	71 Chrysene	228	23.663	23.647	(1.002)	1071196	20.0000	19.66
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	764238	20.0000	18.79
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	422665	4.00000	
	73 Di-n-octylphthalate	149	24.653	24.646	(1.001)	1766142	20.0000	18.96
	74 Benzo(b)fluoranthene	252	25.590	25.575	(0.968)	1339191	20.0000	19.75
	75 Benzo(k)fluoranthene	252	25.637	25.621	(0.970)	1220819	20.0000	18.36
	76 Benzo(a)pyrene	252	26.310	26.295	(0.996)	1182099	20.0000	19.73
*	77 Perylene-d12	264	26.426	26.419	(1.000)	184324	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.417	29.371	(1.113)	1130631	20.0000	18.27
	79 Dibenzo(a,h)anthracene	278	29.433	29.386	(1.114)	843659	20.0000	17.82
	80 Benzo(g,h,i)perylene	276	30.303	30.256	(1.147)	1024656	20.0000	18.96
	90 N-Nitrosodimethylamine	74	5.029	5.021	(0.533)	507306	40.0000	36.89
	91 Aniline	93	8.892	8.876	(0.943)	1174089	40.0000	36.76
	93 Benzidine	184	21.224	21.216	(0.899)	1865669	40.0000	50.04
	103 Pyridine	79	5.037	5.052	(0.534)	766491	20.0000	17.64
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	1087191	20.0000	21.95
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.956	16.940	(1.091)	832540	20.0000	17.48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.637	25.621	(0.970)	2452619	40.0000	37.91
120 2,3,4,6-Tetrachlorophenol	232	16.268	16.261	(1.047)	214471	20.0000	19.98

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081907.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081907.D
Lab Smp Id: SJH0235-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	63872	-34.50
27 Naphthalene-d8	336155	168078	672310	216866	-35.49
42 Acenaphthene-d10	204971	102486	409942	139621	-31.88
59 Phenanthrene-d10	357720	178860	715440	235813	-34.08
69 Chrysene-d12	291052	145526	582104	196773	-32.39
134 Di-n-octylphthala	588887	294444	1177774	422665	-28.23
77 Perylene-d12	273109	136555	546218	184324	-32.51

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.54	0.05
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081907.D

Lab ID: SJH0235-CAL7
nt10.i, ABN.m, 19-AUG-2021 15:36

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.968	0.952	0.0165	Benzoic acid

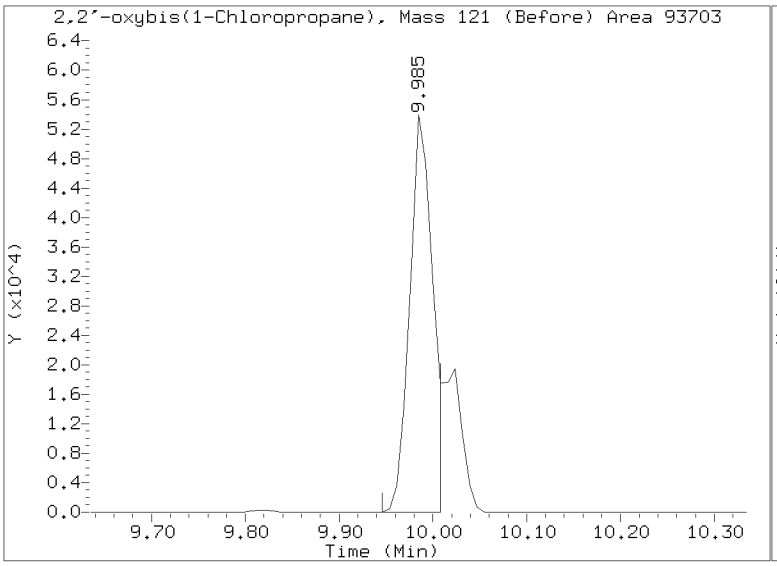
RRT check based on Ccal File: NT1021081912.D

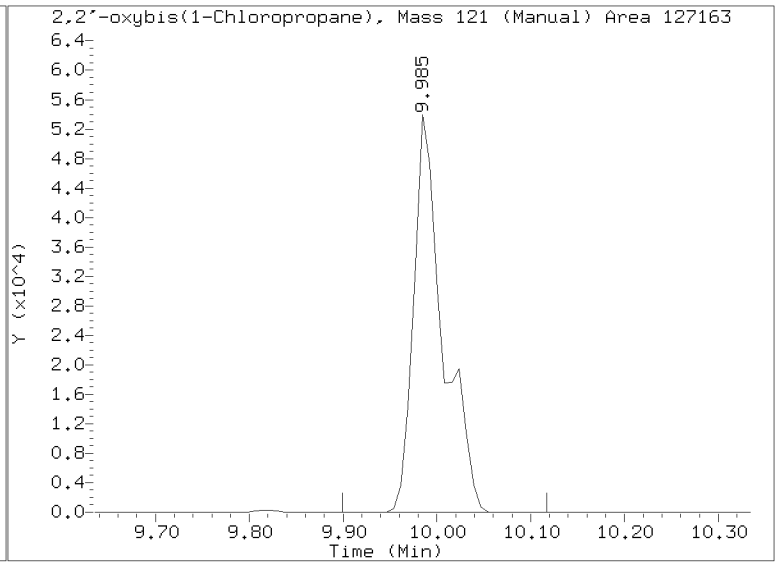
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081907.D
Injection Date: 19-AUG-2021 15:36
Lab ID:SJH0235-CAL7 Client ID:
Report Date: 08/20/2021 12:55





Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081908.D

Page 1

Date : 19-AUG-2021 16:15

Client ID:

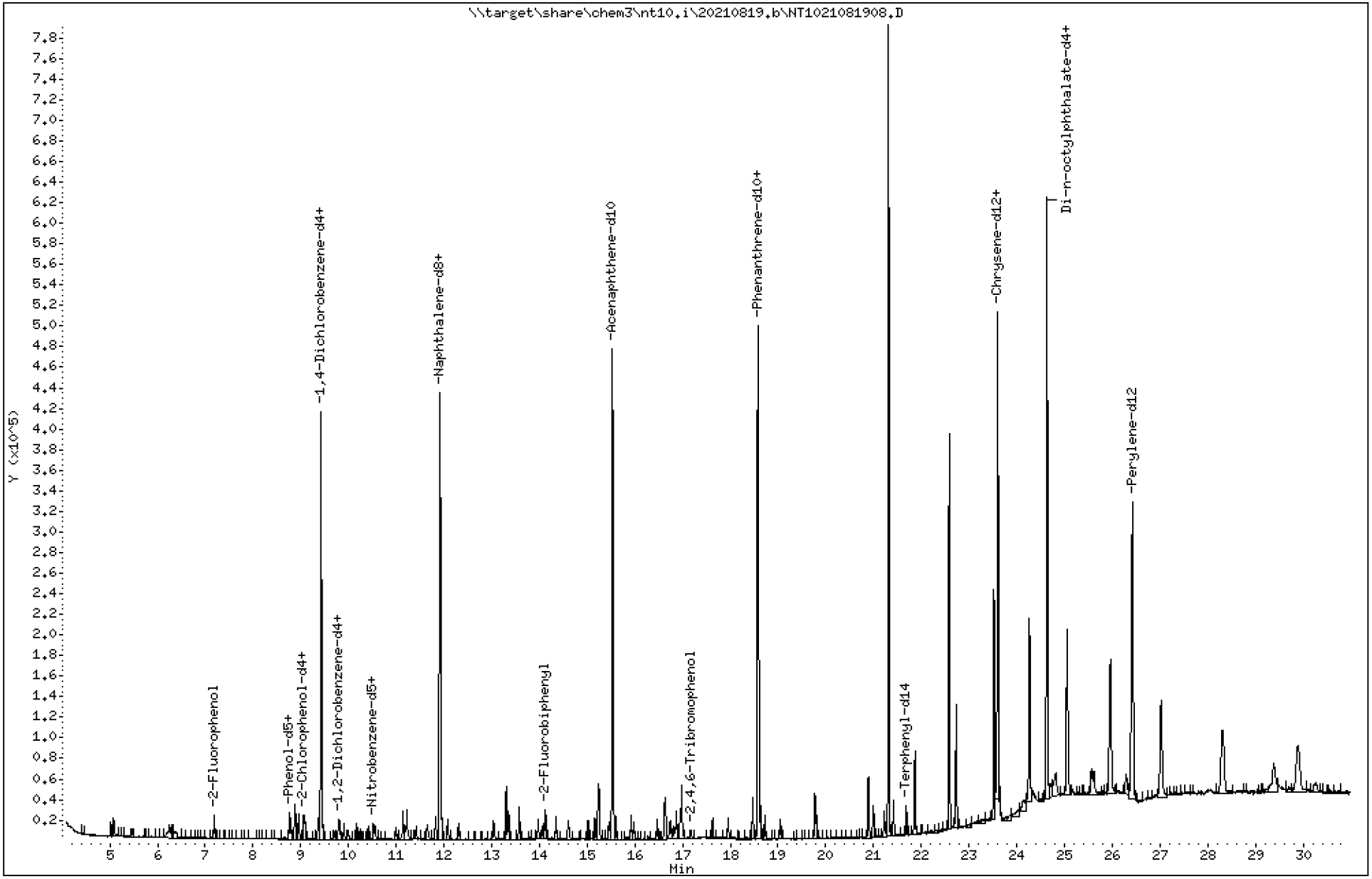
Instrument: nt10.i

Sample Info: SJH0235-CAL1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081908.D
Lab Smp Id: SJH0235-CAL1
Inj Date : 19-AUG-2021 16:15
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.192	7.184	(0.763)	10838	0.30000	0.2916
$	2 Phenol-d5	99	8.768	8.761	(0.930)	13773	0.30000	0.2589
	3 Phenol	94	8.783	8.784	(0.932)	9111	0.20000	0.1871
$	5 2-Chlorophenol-d4	132	9.061	9.062	(0.961)	11184	0.30000	0.2951
	4 Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.951)	7491	0.20000	0.2103
	6 2-Chlorophenol	128	9.092	9.093	(0.965)	7871	0.20000	0.1948
	7 1,3-Dichlorobenzene	146	9.363	9.364	(0.993)	8579	0.20000	0.2042
*	8 1,4-Dichlorobenzene-d4	152	9.425	9.426	(1.000)	111186	4.00000	
	9 1,4-Dichlorobenzene	146	9.456	9.457	(1.003)	6135	0.20000	0.1929
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.039)	5015	0.20000	0.1948
	12 1,2-Dichlorobenzene	146	9.813	9.814	(1.041)	7150	0.20000	0.1975
	11 Benzyl alcohol	108	9.689	9.689	(1.028)	3474	0.20000	0.1551
	14 2,2'-oxybis(1-Chloropropane)	121	9.984	9.984	(1.059)	2130	0.20000	0.1984
	13 2-Methylphenol	108	9.907	9.907	(1.051)	5900	0.20000	0.1913
	17 Hexachloroethane	117	10.411	10.411	(1.105)	2726	0.20000	0.1982
	16 N-Nitroso-di-n-propylamine	70	10.240	10.241	(1.086)	4151	0.20000	0.1919
	15 4-Methylphenol	108	10.178	10.171	(1.080)	5787	0.20000	0.1757
$	18 Nitrobenzene-d5	82	10.520	10.520	(0.883)	7597	0.20000	0.2002
	19 Nitrobenzene	77	10.559	10.559	(0.886)	7094	0.20000	0.2028
	20 Isophorone	82	11.001	11.001	(0.923)	8623	0.20000	0.1595
	21 2-Nitrophenol	139	11.186	11.186	(0.939)	3117	0.20000	0.1565
	22 2,4-Dimethylphenol	107	11.220	11.220	(0.942)	11860	0.40000	0.3858
	23 Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	6657	0.20000	0.2086
	24 Benzoic acid	105	11.347	11.339	(0.953)	1686	0.80000	0.1086(M)
	25 2,4-Dichlorophenol	162	11.653	11.636	(0.978)	10345	0.40000	0.3283
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.993)	6592	0.20000	0.2162
*	27 Naphthalene-d8	136	11.913	11.913	(1.000)	362380	4.00000	
	28 Naphthalene	128	11.959	11.959	(1.004)	16625	0.20000	0.1849
	29 4-Chloroaniline	127	12.083	12.075	(1.014)	13161	0.40000	0.3022
	30 Hexachlorobutadiene	225	12.307	12.307	(1.033)	3172	0.20000	0.1891
	31 4-Chloro-3-methylphenol	107	13.042	13.027	(1.095)	9274	0.40000	0.2929
	32 2-Methylnaphthalene	142	13.351	13.352	(1.121)	14297	0.20000	0.1666
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	991	0.40000	0.06850

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	6038	0.40000	0.2948
	35 2,4,5-Trichlorophenol	196	14.063	14.048	(0.905)	6981	0.40000	0.3244
$	36 2-Fluorobiphenyl	172	14.125	14.126	(0.909)	16077	0.20000	0.1992
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	12012	0.20000	0.1870
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	6298	0.40000	0.3302
	39 Dimethylphthalate	163	15.015	15.016	(0.967)	14824	0.20000	0.2238
	40 Acenaphthylene	152	15.224	15.225	(0.980)	21556	0.20000	0.2153
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.977)	5487	0.40000	0.3751
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	201986	4.00000	
	43 3-Nitroaniline	138	15.464	15.457	(0.996)	5842	0.40000	0.2966
	44 Acenaphthene	153	15.603	15.596	(1.004)	9960	0.20000	0.1881
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.928	15.928	(1.025)	18016	0.20000	0.1915
	47 4-Nitrophenol	109	15.812	15.782	(1.018)	1083	0.40000	0.1518(M)
	48 2,4-Dinitrotoluene	165	15.975	15.975	(1.028)	5886	0.40000	0.2882
	50 Diethylphthalate	149	16.469	16.470	(1.060)	12918	0.20000	0.2163
	49 Fluorene	166	16.639	16.640	(1.071)	17840	0.20000	0.2136
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	7878	0.20000	0.2108
	52 4-Nitroaniline	138	16.740	16.724	(1.078)	6744	0.40000	0.3293
	53 4,6-Dinitro-2-methylphenol	198	16.824	16.817	(0.906)	3720	0.80000	0.2593
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	11763	0.20000	0.2265
$	55 2,4,6-Tribromophenol	330	17.187	17.180	(1.106)	1559	0.30000	0.2032
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.949)	4078	0.20000	0.1959
	57 Hexachlorobenzene	284	17.959	17.951	(0.967)	4254	0.20000	0.2156
	58 Pentachlorophenol	266	18.338	18.315	(0.987)	284	0.40000	0.03936(M)
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	347157	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.003)	16755	0.20000	0.1977
	61 Anthracene	178	18.725	18.717	(1.008)	17272	0.20000	0.1897
	62 Carbazole	167	19.050	19.042	(1.025)	17749	0.20000	0.1892
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	20862	0.20000	0.1798
	64 Fluoranthene	202	20.999	20.992	(0.890)	21682	0.20000	0.1823
	65 Pyrene	202	21.417	21.417	(0.907)	22944	0.20000	0.1879
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	16897	0.20000	0.2203
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	11611	0.20000	0.2417
	68 Benzo(a)anthracene	228	23.569	23.570	(0.999)	19721	0.20000	0.2077
*	69 Chrysene-d12	240	23.600	23.601	(1.000)	271742	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.997)	21223	0.60000	0.5619
	71 Chrysene	228	23.647	23.647	(1.002)	14802	0.20000	0.1967
	72 bis(2-Ethylhexyl)phthalate	149	23.608	23.608	(0.959)	9982	0.20000	0.2107
*	134 Di-n-octylphthalate-d4	153	24.630	24.630	(1.000)	492317	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.001)	22018	0.20000	0.2029
	74 Benzo(b)fluoranthene	252	25.567	25.575	(0.968)	17996	0.20000	0.2000
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	17388	0.20000	0.1971
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	15681	0.20000	0.1972
*	77 Perylene-d12	264	26.419	26.419	(1.000)	244625	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.378	29.371	(1.112)	16890	0.20000	0.2056
	79 Dibenzo(a,h)anthracene	278	29.402	29.386	(1.113)	13111	0.20000	0.2087
	80 Benzo(g,h,i)perylene	276	30.256	30.256	(1.145)	14531	0.20000	0.2026(M)
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.533)	8617	0.40000	0.3600
	91 Aniline	93	8.884	8.876	(0.943)	22632	0.40000	0.4071
	93 Benzidine	184	21.224	21.216	(0.899)	21849	0.40000	0.4244
	103 Pyridine	79	5.075	5.052	(0.538)	14026	0.20000	0.1855
	105 1-methylnaphthalene	142	13.576	13.576	(1.140)	14152	0.20000	0.1710
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.091)	15336	0.20000	0.2226

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.621	25.621	(0.970)	35024	0.40000	0.4079
120 2,3,4,6-Tetrachlorophenol	232	16.268	16.261	(1.047)	1379	0.20000	0.09382

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081908.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081908.D
Lab Smp Id: SJH0235-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	111186	14.02
27 Naphthalene-d8	336155	168078	672310	362380	7.80
42 Acenaphthene-d10	204971	102486	409942	201986	-1.46
59 Phenanthrene-d10	357720	178860	715440	347157	-2.95
69 Chrysene-d12	291052	145526	582104	271742	-6.63
134 Di-n-octylphthala	588887	294444	1177774	492317	-16.40
77 Perylene-d12	273109	136555	546218	244625	-10.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.08
27 Naphthalene-d8	11.92	11.42	12.42	11.91	-0.07
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	-0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.60	-0.03
134 Di-n-octylphthala	24.64	24.14	25.14	24.63	-0.03
77 Perylene-d12	26.43	25.93	26.93	26.42	-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 - NT1021081908.D

Lab ID: SJH0235-CAL1
nt10.i, ABN.m, 19-AUG-2021 16:15

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

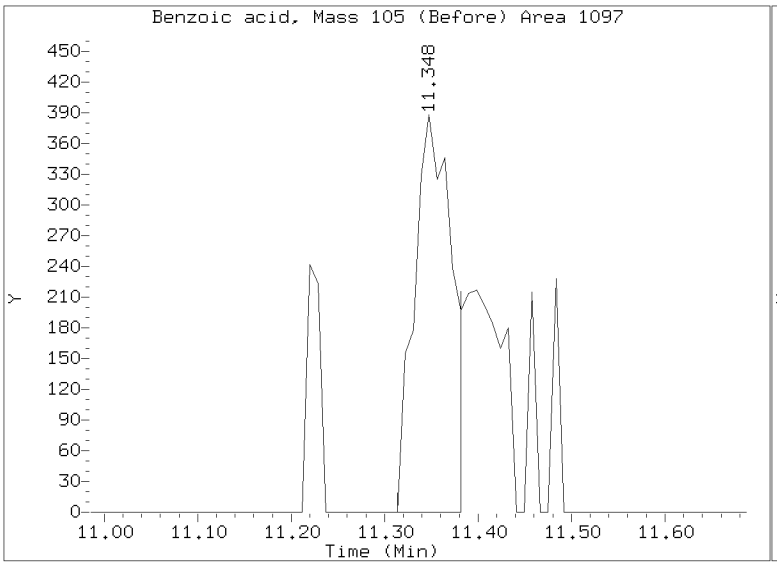
RRT check based on Ccal File: NT1021081912.D

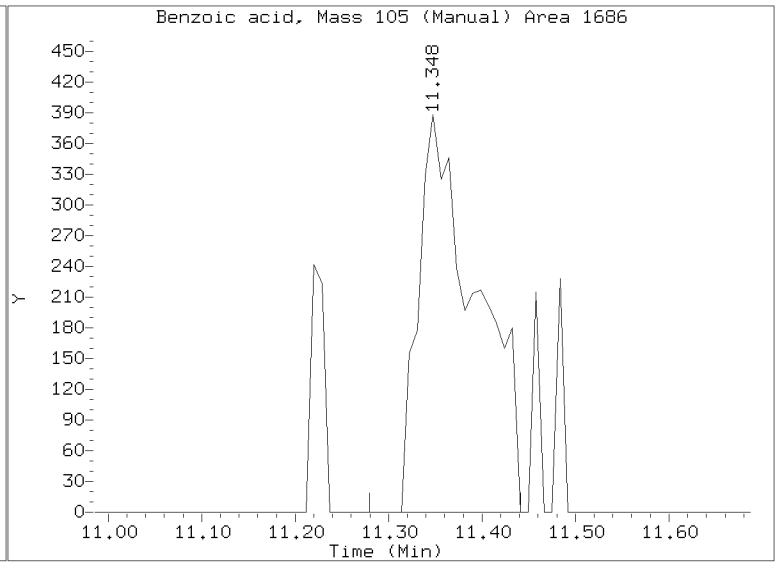
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

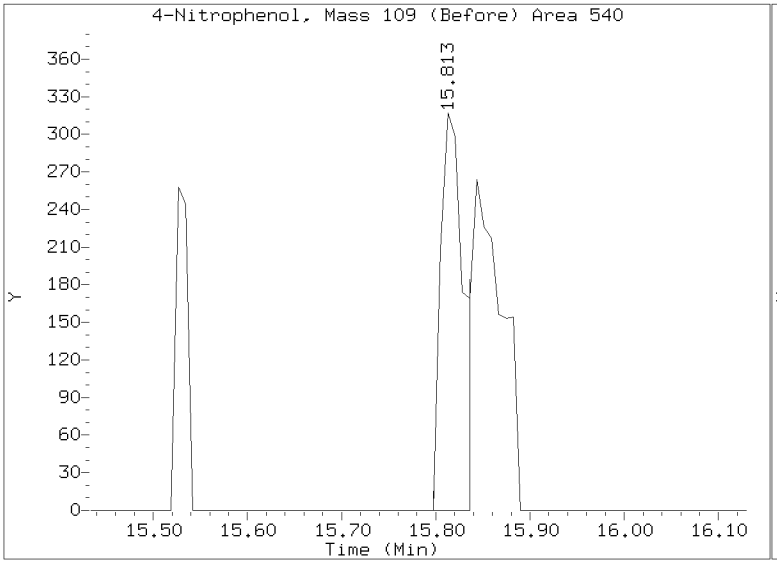
* Only compounds listed in the work order have been verified by the analyst *

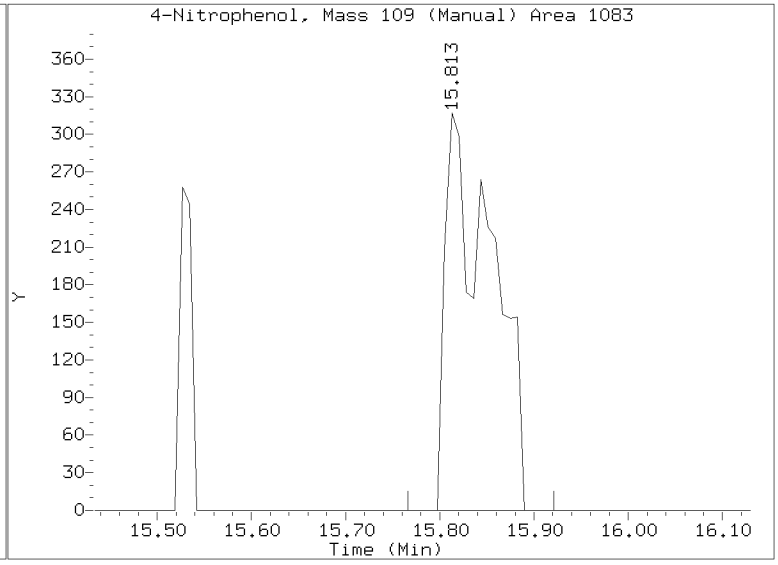
Quant Ion Manual Peak Adjustment Report

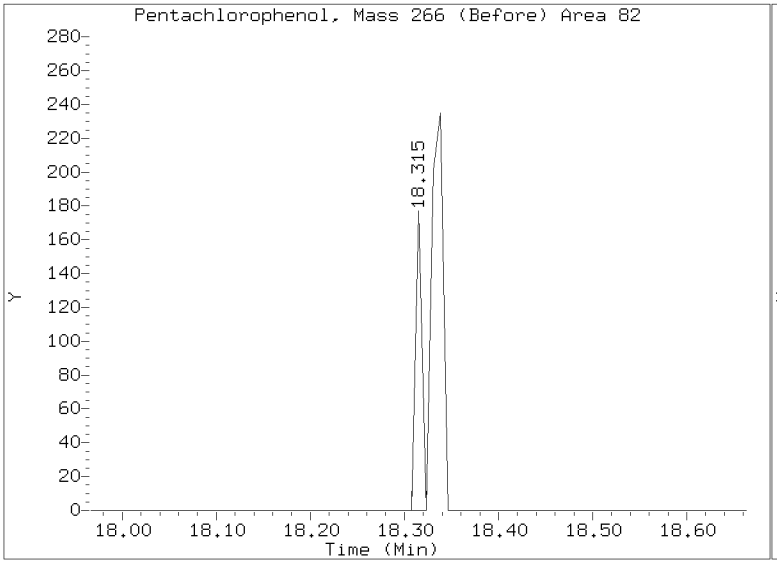
Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081908.D
Injection Date: 19-AUG-2021 16:15
Lab ID:SJH0235-CAL1 Client ID:
Report Date: 08/20/2021 12:55

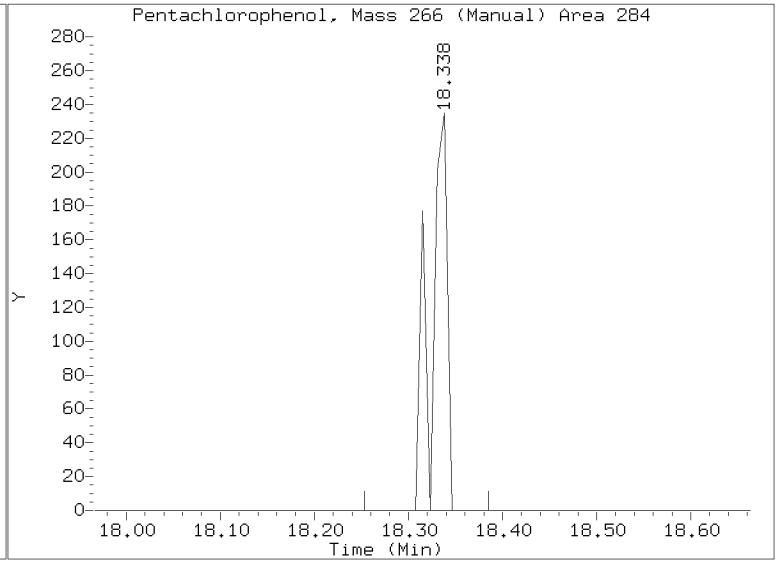












Quant Ion Manual Peak Adjustment Report

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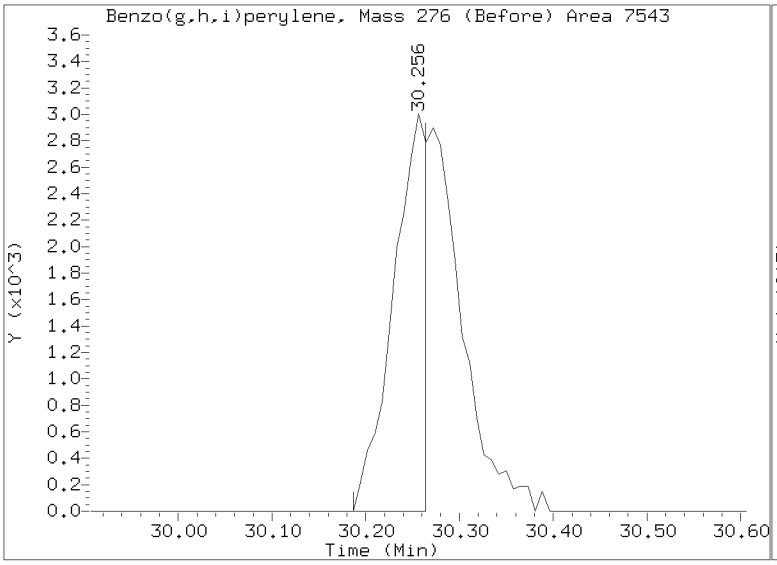
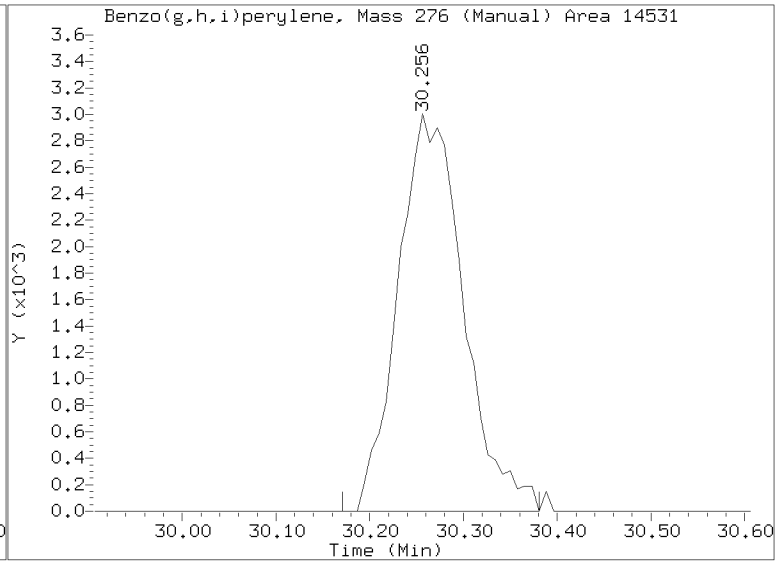
Injection Date: 19-AUG-2021 16:15
Lab ID:SJH0235-CAL1 Client ID:
Report Date: 08/20/2021 12:55





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Page 1

Date : 19-AUG-2021 16:53

Client ID:

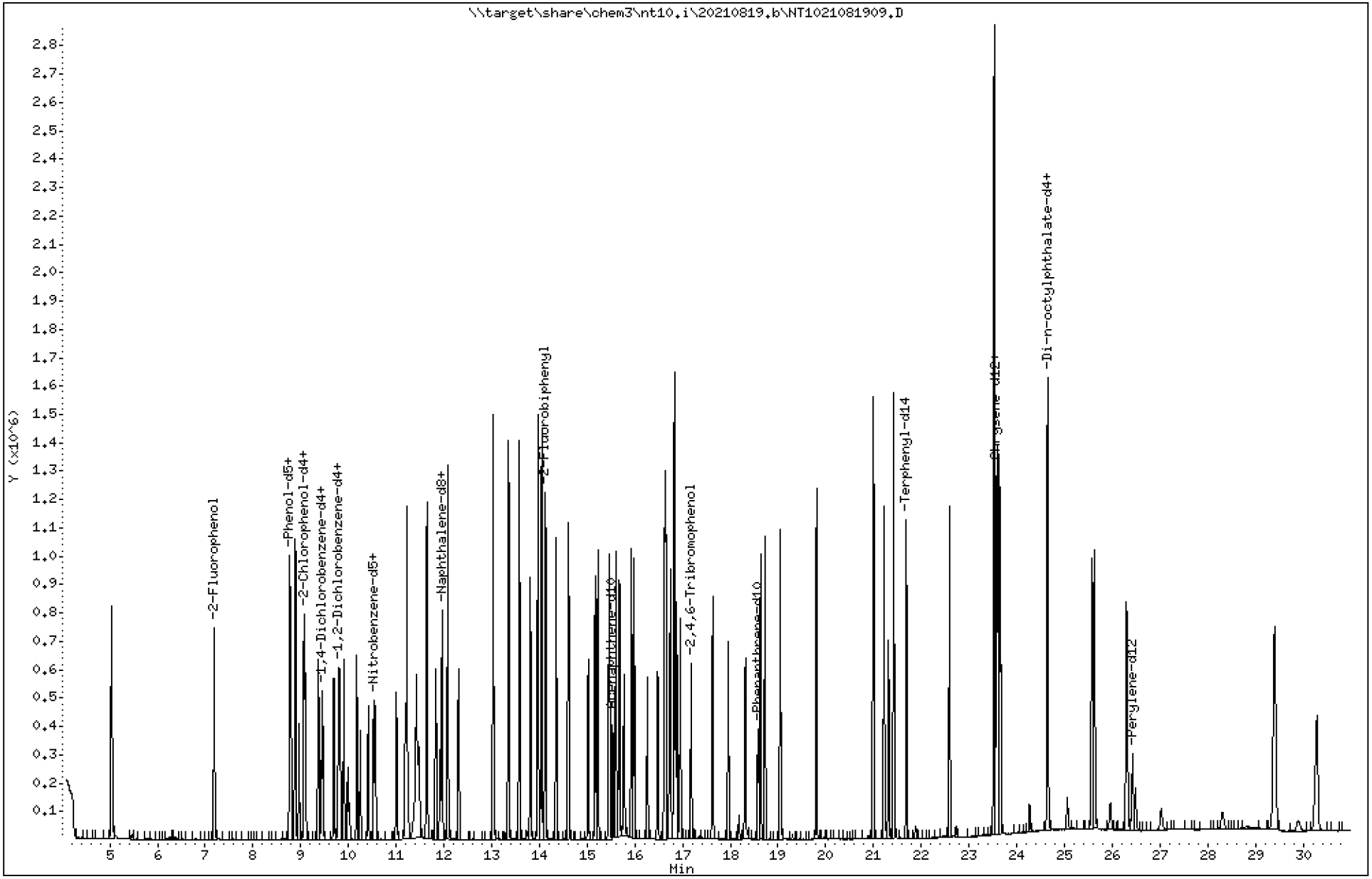
Instrument: nt10.i

Sample Info: SJH0235-CAL6

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081909.D
Lab Smp Id: SJH0235-CAL6
Inj Date : 19-AUG-2021 16:53
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.184	7.184	(0.762)	368521	15.0000	14.42
$	2 Phenol-d5	99	8.776	8.761	(0.930)	584660	15.0000	15.99
	3 Phenol	94	8.791	8.784	(0.932)	335187	10.0000	10.01
$	5 2-Chlorophenol-d4	132	9.069	9.062	(0.961)	379384	15.0000	14.56
	4 Bis(2-Chloroethyl)ether	93	8.969	8.961	(0.951)	228205	10.0000	9.319
	6 2-Chlorophenol	128	9.100	9.093	(0.965)	275392	10.0000	9.916
	7 1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	272559	10.0000	9.438
*	8 1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	76425	4.00000	
	9 1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	216673	10.0000	9.911
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.038)	171483	10.0000	9.691
	12 1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	240588	10.0000	9.670
	11 Benzyl alcohol	108	9.697	9.689	(1.028)	169541	10.0000	11.01
	14 2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	77615	10.0000	10.52(M)
	13 2-Methylphenol	108	9.907	9.907	(1.050)	212824	10.0000	10.04
	17 Hexachloroethane	117	10.411	10.411	(1.104)	96063	10.0000	10.16
	16 N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	146881	10.0000	9.877
	15 4-Methylphenol	108	10.178	10.171	(1.079)	232991	10.0000	10.29
$	18 Nitrobenzene-d5	82	10.528	10.520	(0.883)	268369	10.0000	9.903
	19 Nitrobenzene	77	10.566	10.559	(0.886)	254511	10.0000	10.19
	20 Isophorone	82	11.009	11.001	(0.924)	412384	10.0000	10.68
	21 2-Nitrophenol	139	11.194	11.186	(0.939)	159050	10.0000	11.18
	22 2,4-Dimethylphenol	107	11.220	11.220	(0.941)	419200	20.0000	19.09
	23 Bis(2-Chloroethoxy)methane	93	11.424	11.415	(0.958)	215862	10.0000	9.469
	24 Benzoic acid	105	11.483	11.339	(0.963)	478329	40.0000	40.63
	25 2,4-Dichlorophenol	162	11.644	11.636	(0.977)	459243	20.0000	20.41
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	199101	10.0000	9.141
*	27 Naphthalene-d8	136	11.920	11.913	(1.000)	258836	4.00000	
	28 Naphthalene	128	11.959	11.959	(1.003)	669047	10.0000	10.42
	29 4-Chloroaniline	127	12.083	12.075	(1.014)	697718	20.0000	22.43
	30 Hexachlorobutadiene	225	12.307	12.307	(1.032)	117387	10.0000	9.796
	31 4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	501729	20.0000	22.19
	32 2-Methylnaphthalene	142	13.351	13.352	(1.120)	665638	10.0000	10.86
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	255166	20.0000	20.62

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	356357	20.0000	21.72
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	379328	20.0000	22.00
$	36 2-Fluorobiphenyl	172	14.125	14.126	(0.909)	632280	10.0000	9.780
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	530435	10.0000	10.31
	38 2-Nitroaniline	65	14.613	14.598	(0.941)	327830	20.0000	21.45
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	477211	10.0000	8.992
	40 Acenaphthylene	152	15.224	15.225	(0.980)	751125	10.0000	9.366
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.977)	232128	20.0000	19.81
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	161817	4.00000	
	43 3-Nitroaniline	138	15.464	15.457	(0.996)	343936	20.0000	21.79
	44 Acenaphthene	153	15.604	15.596	(1.004)	445902	10.0000	10.51
	45 2,4-Dinitrophenol	184	15.681	15.674	(1.009)	273728	40.0000	41.11
	46 Dibenzofuran	168	15.928	15.928	(1.025)	771225	10.0000	10.23
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	117884	20.0000	20.43
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.029)	348450	20.0000	21.30
	50 Diethylphthalate	149	16.477	16.470	(1.061)	439537	10.0000	9.188
	49 Fluorene	166	16.647	16.640	(1.072)	629834	10.0000	9.415
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	282922	10.0000	9.449
	52 4-Nitroaniline	138	16.747	16.724	(1.078)	342128	20.0000	20.85
	53 4,6-Dinitro-2-methylphenol	198	16.832	16.817	(0.906)	475744	40.0000	40.43
	54 N-Nitrosodiphenylamine	169	16.878	16.871	(0.909)	370355	10.0000	8.678
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	93651	15.0000	14.88
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.949)	167756	10.0000	9.807
	57 Hexachlorobenzene	284	17.959	17.951	(0.967)	146239	10.0000	9.018
	58 Pentachlorophenol	266	18.315	18.315	(0.986)	126026	20.0000	19.88
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	285323	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.003)	699119	10.0000	10.04
	61 Anthracene	178	18.725	18.717	(1.008)	760956	10.0000	10.17
	62 Carbazole	167	19.050	19.042	(1.025)	806873	10.0000	10.47
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	1015328	10.0000	10.65
	64 Fluoranthene	202	20.999	20.992	(0.889)	1065819	10.0000	10.74
	65 Pyrene	202	21.425	21.417	(0.908)	1073684	10.0000	10.54
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	570373	10.0000	8.915
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	359415	10.0000	8.969
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	752532	10.0000	9.504
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	226646	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.531	23.523	(0.997)	995425	30.0000	31.60
	71 Chrysene	228	23.655	23.647	(1.002)	644540	10.0000	10.27
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	454634	10.0000	9.908
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	476779	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	1028114	10.0000	9.784
	74 Benzo(b)fluoranthene	252	25.582	25.575	(0.968)	775049	10.0000	10.07
	75 Benzo(k)fluoranthene	252	25.629	25.621	(0.970)	754226	10.0000	9.995
	76 Benzo(a)pyrene	252	26.302	26.295	(0.995)	688913	10.0000	10.13
*	77 Perylene-d12	264	26.426	26.419	(1.000)	209239	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.402	29.371	(1.113)	670351	10.0000	9.542
	79 Dibenzo(a,h)anthracene	278	29.417	29.386	(1.113)	510253	10.0000	9.494
	80 Benzo(g,h,i)perylene	276	30.287	30.256	(1.146)	610444	10.0000	9.950
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.532)	336814	20.0000	20.47
	91 Aniline	93	8.884	8.876	(0.942)	722232	20.0000	18.90
	93 Benzidine	184	21.224	21.216	(0.899)	820901	20.0000	19.12
	103 Pyridine	79	5.044	5.052	(0.535)	495502	10.0000	9.532
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	643216	10.0000	10.88
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.091)	523640	10.0000	9.487

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.629	25.621	(0.970)	1469290	20.0000	20.01
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.047)	121195	10.0000	10.03

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081909.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081909.D
Lab Smp Id: SJH0235-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	76425	-21.63
27 Naphthalene-d8	336155	168078	672310	258836	-23.00
42 Acenaphthene-d10	204971	102486	409942	161817	-21.05
59 Phenanthrene-d10	357720	178860	715440	285323	-20.24
69 Chrysene-d12	291052	145526	582104	226646	-22.13
134 Di-n-octylphthala	588887	294444	1177774	476779	-19.04
77 Perylene-d12	273109	136555	546218	209239	-23.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	-0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	-0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.61	-0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	-0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	-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 - NT1021081909.D

Lab ID: SJH0235-CAL6
nt10.i, ABN.m, 19-AUG-2021 16:53

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.952	0.0115	Benzoic acid

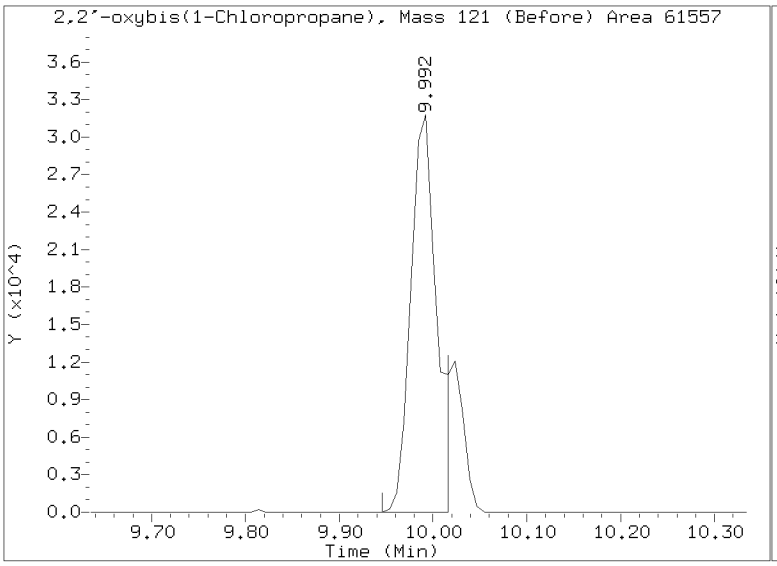
RRT check based on Ccal File: NT1021081912.D

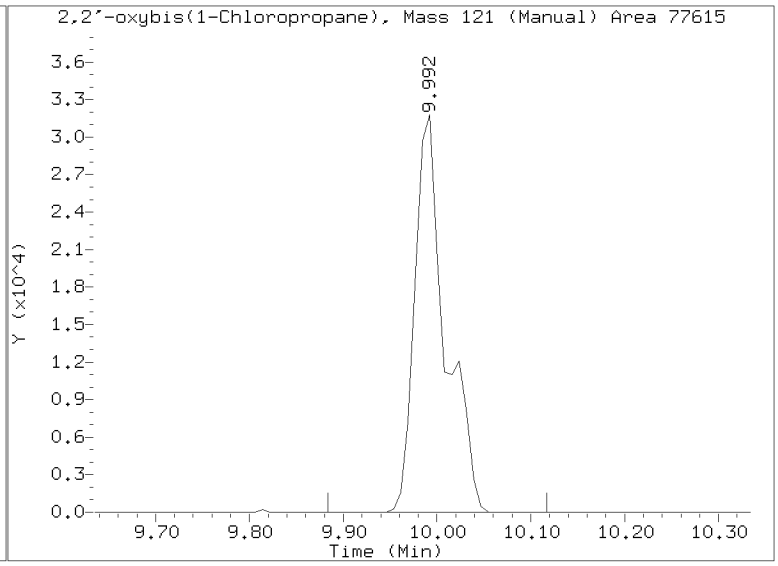
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081909.D
Injection Date: 19-AUG-2021 16:53
Lab ID:SJH0235-CAL6 Client ID:
Report Date: 08/20/2021 12:55





Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081910.D

Page 1

Date : 19-AUG-2021 17:31

Client ID:

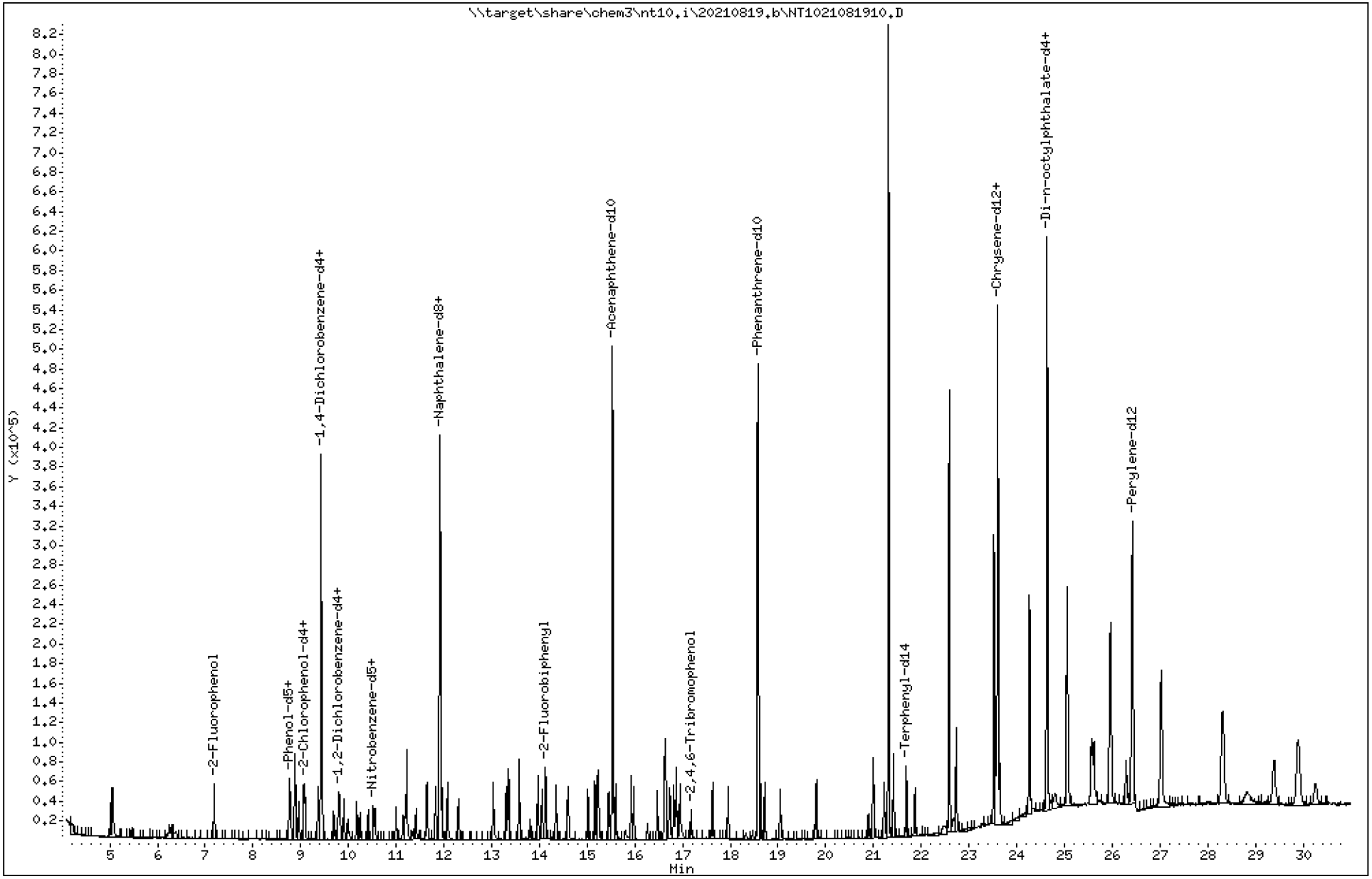
Instrument: nt10.i

Sample Info: SJH0235-CAL2

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081910.D
Lab Smp Id: SJH0235-CAL2
Inj Date : 19-AUG-2021 17:31
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
Compounds								
$	1 2-Fluorophenol	112	7.192	7.184	(0.763)	27111	0.75000	0.7762
$	2 Phenol-d5	99	8.760	8.761	(0.929)	36266	0.75000	0.7255
	3 Phenol	94	8.784	8.784	(0.932)	23225	0.50000	0.5076
$	5 2-Chlorophenol-d4	132	9.069	9.062	(0.962)	27203	0.75000	0.7639
	4 Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.951)	18415	0.50000	0.5501
	6 2-Chlorophenol	128	9.092	9.093	(0.965)	19528	0.50000	0.5144
	7 1,3-Dichlorobenzene	146	9.363	9.364	(0.993)	20925	0.50000	0.5301
*	8 1,4-Dichlorobenzene-d4	152	9.425	9.426	(1.000)	104470	4.00000	
	9 1,4-Dichlorobenzene	146	9.456	9.457	(1.003)	15454	0.50000	0.5171
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.039)	12191	0.50000	0.5040
	12 1,2-Dichlorobenzene	146	9.821	9.814	(1.042)	17782	0.50000	0.5228
	11 Benzyl alcohol	108	9.689	9.689	(1.028)	8661	0.50000	0.4115
	14 2,2'-oxybis(1-Chloropropane)	121	9.984	9.984	(1.059)	4094	0.50000	0.4059
	13 2-Methylphenol	108	9.907	9.907	(1.051)	14425	0.50000	0.4978
	17 Hexachloroethane	117	10.411	10.411	(1.105)	6365	0.50000	0.4924
	16 N-Nitroso-di-n-propylamine	70	10.240	10.241	(1.086)	10491	0.50000	0.5161
	15 4-Methylphenol	108	10.171	10.171	(1.079)	15663	0.50000	0.5060
$	18 Nitrobenzene-d5	82	10.520	10.520	(0.883)	18435	0.50000	0.5171
	19 Nitrobenzene	77	10.559	10.559	(0.886)	16726	0.50000	0.5089
	20 Isophorone	82	11.001	11.001	(0.923)	22987	0.50000	0.4525
	21 2-Nitrophenol	139	11.186	11.186	(0.939)	8241	0.50000	0.4403
	22 2,4-Dimethylphenol	107	11.220	11.220	(0.942)	30130	1.00000	1.043
	23 Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	16636	0.50000	0.5548
	24 Benzoic acid	105	11.330	11.339	(0.951)	6330	2.00000	0.4339
	25 2,4-Dichlorophenol	162	11.644	11.636	(0.977)	28245	1.00000	0.9542
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.993)	15680	0.50000	0.5473
*	27 Naphthalene-d8	136	11.913	11.913	(1.000)	340466	4.00000	
	28 Naphthalene	128	11.959	11.959	(1.004)	41502	0.50000	0.4914
	29 4-Chloroaniline	127	12.083	12.075	(1.014)	34718	1.00000	0.8484
	30 Hexachlorobutadiene	225	12.307	12.307	(1.033)	7987	0.50000	0.5067
	31 4-Chloro-3-methylphenol	107	13.034	13.027	(1.094)	25222	1.00000	0.8479
	32 2-Methylnaphthalene	142	13.352	13.352	(1.121)	37279	0.50000	0.4625
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	5582	1.00000	0.3952

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	17341	1.00000	0.8679
	35 2,4,5-Trichlorophenol	196	14.056	14.048	(0.905)	17909	1.00000	0.8532
$	36 2-Fluorobiphenyl	172	14.125	14.126	(0.909)	40053	0.50000	0.5088
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	31308	0.50000	0.4996
	38 2-Nitroaniline	65	14.598	14.598	(0.940)	17167	1.00000	0.9226
	39 Dimethylphthalate	163	15.016	15.016	(0.967)	36110	0.50000	0.5588
	40 Acenaphthylene	152	15.225	15.225	(0.980)	52473	0.50000	0.5374
	41 2,6-Dinitrotoluene	165	15.163	15.163	(0.976)	14556	1.00000	1.020
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	197027	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	16699	1.00000	0.8691
	44 Acenaphthene	153	15.604	15.596	(1.004)	25262	0.50000	0.4891
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.009)	750	2.00000	0.1000(M)
	46 Dibenzofuran	168	15.928	15.928	(1.025)	44274	0.50000	0.4824
	47 4-Nitrophenol	109	15.797	15.782	(1.017)	4187	1.00000	0.6017(M)
	48 2,4-Dinitrotoluene	165	15.975	15.975	(1.028)	17972	1.00000	0.9022
	50 Diethylphthalate	149	16.469	16.470	(1.060)	30870	0.50000	0.5300
	49 Fluorene	166	16.639	16.640	(1.071)	43777	0.50000	0.5375
	51 4-Chlorophenyl-phenylether	204	16.616	16.616	(1.070)	19593	0.50000	0.5374
	52 4-Nitroaniline	138	16.732	16.724	(1.077)	19489	1.00000	0.9755
	53 4,6-Dinitro-2-methylphenol	198	16.824	16.817	(0.906)	16056	2.00000	1.140
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	29302	0.50000	0.5750
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	4517	0.75000	0.6031
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.949)	10656	0.50000	0.5217
	57 Hexachlorobenzene	284	17.951	17.951	(0.966)	11058	0.50000	0.5711
	58 Pentachlorophenol	266	18.323	18.315	(0.986)	2305	1.00000	0.3252
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	340715	4.00000	
	60 Phenanthrene	178	18.624	18.624	(1.002)	40903	0.50000	0.4917
	61 Anthracene	178	18.725	18.717	(1.008)	43610	0.50000	0.4879
	62 Carbazole	167	19.050	19.042	(1.025)	43839	0.50000	0.4763
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	52062	0.50000	0.4572
	64 Fluoranthene	202	20.992	20.992	(0.889)	56813	0.50000	0.4832
	65 Pyrene	202	21.417	21.417	(0.907)	59206	0.50000	0.4907
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	41689	0.50000	0.5498
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	26930	0.50000	0.5671
	68 Benzo(a)anthracene	228	23.570	23.570	(0.999)	49086	0.50000	0.5231
*	69 Chrysene-d12	240	23.601	23.601	(1.000)	268590	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.997)	53763	1.50000	1.440
	71 Chrysene	228	23.647	23.647	(1.002)	37292	0.50000	0.5013
	72 bis(2-Ethylhexyl)phthalate	149	23.608	23.608	(0.959)	23559	0.50000	0.5049
*	134 Di-n-octylphthalate-d4	153	24.630	24.630	(1.000)	484857	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.001)	54557	0.50000	0.5105
	74 Benzo(b)fluoranthene	252	25.567	25.575	(0.968)	45069	0.50000	0.5078
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	42531	0.50000	0.4889
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	38801	0.50000	0.4949
*	77 Perylene-d12	264	26.419	26.419	(1.000)	241218	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.386	29.371	(1.112)	41984	0.50000	0.5184
	79 Dibenzo(a,h)anthracene	278	29.402	29.386	(1.113)	32819	0.50000	0.5297
	80 Benzo(g,h,i)perylene	276	30.256	30.256	(1.145)	35615	0.50000	0.5036
	90 N-Nitrosodimethylamine	74	5.013	5.021	(0.532)	22215	1.00000	0.9877
	91 Aniline	93	8.876	8.876	(0.942)	55472	1.00000	1.062
	93 Benzidine	184	21.224	21.216	(0.899)	48931	1.00000	0.9616
	103 Pyridine	79	5.060	5.052	(0.537)	36473	0.50000	0.5133
	105 1-methylnaphthalene	142	13.576	13.576	(1.140)	35887	0.50000	0.4616
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.091)	35712	0.50000	0.5314

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.621	25.621	(0.970)	84944	1.00000	1.003
120 2,3,4,6-Tetrachlorophenol	232	16.268	16.261	(1.047)	4597	0.50000	0.3205

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081910.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081910.D
Lab Smp Id: SJH0235-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	104470	7.13
27 Naphthalene-d8	336155	168078	672310	340466	1.28
42 Acenaphthene-d10	204971	102486	409942	197027	-3.88
59 Phenanthrene-d10	357720	178860	715440	340715	-4.75
69 Chrysene-d12	291052	145526	582104	268590	-7.72
134 Di-n-octylphthala	588887	294444	1177774	484857	-17.67
77 Perylene-d12	273109	136555	546218	241218	-11.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.08
27 Naphthalene-d8	11.92	11.42	12.42	11.91	-0.06
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.60	-0.03
134 Di-n-octylphthala	24.64	24.14	25.14	24.63	-0.03
77 Perylene-d12	26.43	25.93	26.93	26.42	-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 - NT1021081910.D

Lab ID: SJH0235-CAL2
nt10.i, ABN.m, 19-AUG-2021 17:31

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

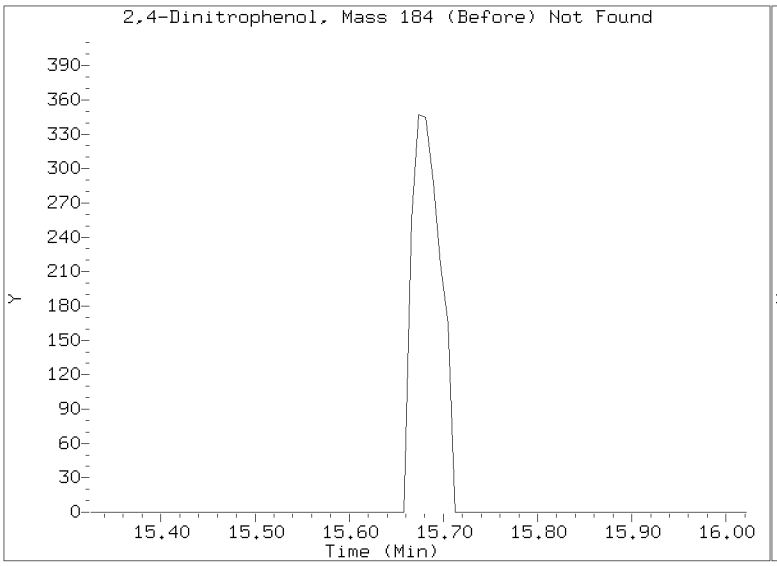
RRT check based on Ccal File: NT1021081912.D

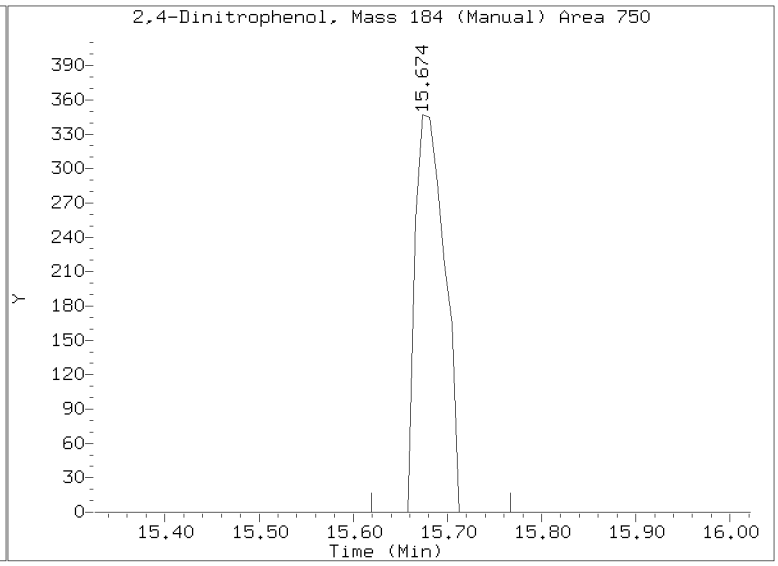
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

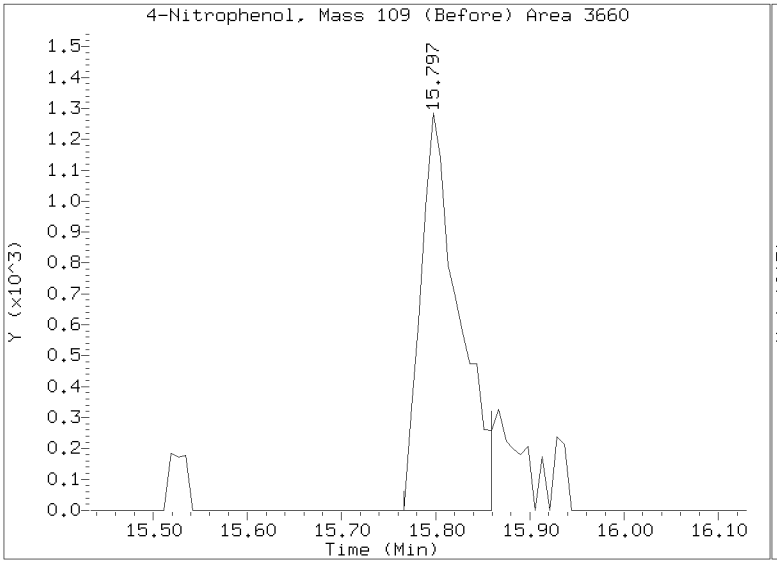
* Only compounds listed in the work order have been verified by the analyst *

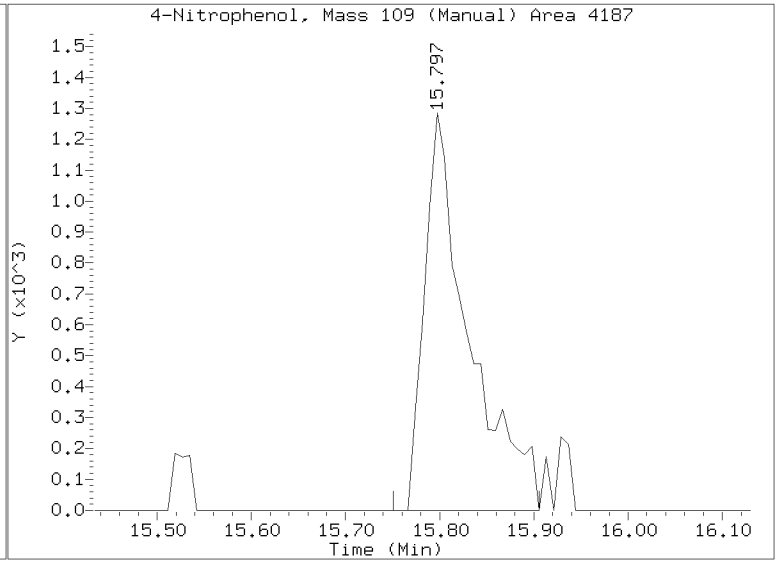
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081910.D
Injection Date: 19-AUG-2021 17:31
Lab ID:SJH0235-CAL2 Client ID:
Report Date: 08/20/2021 12:55









Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081911.D

Date : 19-AUG-2021 18:09

Client ID:

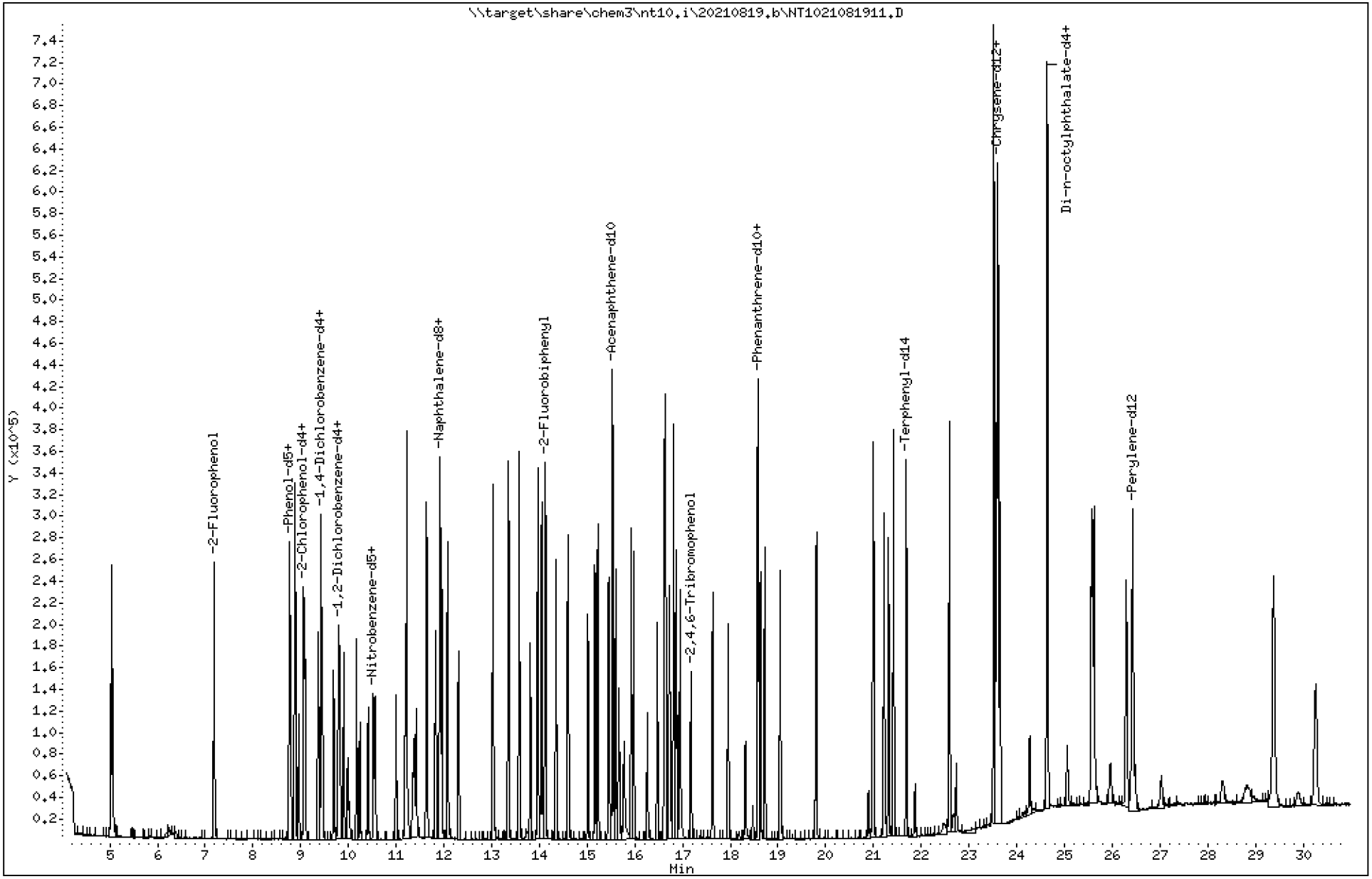
Instrument: nt10.i

Sample Info: SJH0235-CAL4

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081911.D
Lab Smp Id: SJH0235-CAL4
Inj Date : 19-AUG-2021 18:09
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:09 Cal File: NT1021081911.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.184	7.184	(0.762)	114158	3.75000	4.087
$	2 Phenol-d5	99	8.760	8.761	(0.929)	156156	3.75000	3.906
	3 Phenol	94	8.784	8.784	(0.932)	95152	2.50000	2.601
$	5 2-Chlorophenol-d4	132	9.062	9.062	(0.961)	112427	3.75000	3.948
	4 Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.951)	67058	2.50000	2.505
	6 2-Chlorophenol	128	9.093	9.093	(0.965)	74423	2.50000	2.451
	7 1,3-Dichlorobenzene	146	9.364	9.364	(0.993)	80786	2.50000	2.559
*	8 1,4-Dichlorobenzene-d4	152	9.426	9.426	(1.000)	83542	4.00000	
	9 1,4-Dichlorobenzene	146	9.457	9.457	(1.003)	61721	2.50000	2.583
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.039)	51077	2.50000	2.641
	12 1,2-Dichlorobenzene	146	9.814	9.814	(1.041)	69507	2.50000	2.556
	11 Benzyl alcohol	108	9.689	9.689	(1.028)	44525	2.50000	2.646
	14 2,2'-oxybis(1-Chloropropane)	121	9.984	9.984	(1.059)	20330	2.50000	2.520(M)
	13 2-Methylphenol	108	9.907	9.907	(1.051)	58718	2.50000	2.534
	17 Hexachloroethane	117	10.411	10.411	(1.105)	25898	2.50000	2.506
	16 N-Nitroso-di-n-propylamine	70	10.241	10.241	(1.086)	41870	2.50000	2.576
	15 4-Methylphenol	108	10.171	10.171	(1.079)	63370	2.50000	2.560
$	18 Nitrobenzene-d5	82	10.520	10.520	(0.883)	76118	2.50000	2.629
	19 Nitrobenzene	77	10.559	10.559	(0.886)	67342	2.50000	2.523
	20 Isophorone	82	11.001	11.001	(0.923)	114076	2.50000	2.765
	21 2-Nitrophenol	139	11.186	11.186	(0.938)	37657	2.50000	2.477
	22 2,4-Dimethylphenol	107	11.220	11.220	(0.941)	121398	5.00000	5.175
	23 Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	61716	2.50000	2.534
	24 Benzoic acid	105	11.373	11.339	(0.954)	72382	10.0000	6.063
	25 2,4-Dichlorophenol	162	11.636	11.636	(0.976)	121747	5.00000	5.064
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	58940	2.50000	2.533
*	27 Naphthalene-d8	136	11.921	11.913	(1.000)	276508	4.00000	
	28 Naphthalene	128	11.959	11.959	(1.003)	176350	2.50000	2.571
	29 4-Chloroaniline	127	12.083	12.075	(1.014)	170250	5.00000	5.123
	30 Hexachlorobutadiene	225	12.307	12.307	(1.032)	33846	2.50000	2.644
	31 4-Chloro-3-methylphenol	107	13.027	13.027	(1.093)	115923	5.00000	4.799
	32 2-Methylnaphthalene	142	13.352	13.352	(1.120)	165652	2.50000	2.530
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	47157	5.00000	3.864
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	82298	5.00000	4.817

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	85348	5.00000	4.755
$	36 2-Fluorobiphenyl	172	14.126	14.126	(0.909)	180600	2.50000	2.683
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	136264	2.50000	2.543
	38 2-Nitroaniline	65	14.598	14.598	(0.940)	81243	5.00000	5.106
	39 Dimethylphthalate	163	15.016	15.016	(0.967)	141378	2.50000	2.559
	40 Acenaphthylene	152	15.225	15.225	(0.980)	214285	2.50000	2.566
	41 2,6-Dinitrotoluene	165	15.163	15.163	(0.976)	62545	5.00000	5.125
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	168481	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	85190	5.00000	5.185
	44 Acenaphthene	153	15.604	15.596	(1.004)	112073	2.50000	2.538
	45 2,4-Dinitrophenol	184	15.666	15.674	(1.008)	35712	10.0000	5.517
	46 Dibenzofuran	168	15.928	15.928	(1.025)	200179	2.50000	2.551
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	23871	5.00000	4.005
	48 2,4-Dinitrotoluene	165	15.975	15.975	(1.028)	86585	5.00000	5.083
	50 Diethylphthalate	149	16.470	16.470	(1.060)	128959	2.50000	2.589
	49 Fluorene	166	16.640	16.640	(1.071)	179104	2.50000	2.571
	51 4-Chlorophenyl-phenylether	204	16.616	16.616	(1.070)	78736	2.50000	2.526
	52 4-Nitroaniline	138	16.724	16.724	(1.077)	85325	5.00000	4.994
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	106663	10.0000	8.706
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	113172	2.50000	2.551
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	23705	3.75000	3.683
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.949)	44210	2.50000	2.486
	57 Hexachlorobenzene	284	17.951	17.951	(0.966)	42409	2.50000	2.516
	58 Pentachlorophenol	266	18.315	18.315	(0.986)	19810	5.00000	3.183
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	296582	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.003)	178596	2.50000	2.466
	61 Anthracene	178	18.725	18.717	(1.008)	191771	2.50000	2.465
	62 Carbazole	167	19.042	19.042	(1.025)	194411	2.50000	2.426
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	247930	2.50000	2.501
	64 Fluoranthene	202	21.000	20.992	(0.890)	256397	2.50000	2.455
	65 Pyrene	202	21.425	21.417	(0.908)	266290	2.50000	2.484
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	182873	2.50000	2.715
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	101679	2.50000	2.410
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	213333	2.50000	2.559
*	69 Chrysene-d12	240	23.601	23.601	(1.000)	238624	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.997)	246042	7.50000	7.418
	71 Chrysene	228	23.647	23.647	(1.002)	164423	2.50000	2.488
	72 bis(2-Ethylhexyl)phthalate	149	23.608	23.608	(0.958)	108151	2.50000	2.505
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	448647	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	249802	2.50000	2.526
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	201825	2.50000	2.475
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	205238	2.50000	2.567
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	179644	2.50000	2.494
*	77 Perylene-d12	264	26.427	26.419	(1.000)	221651	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.371	29.371	(1.111)	190240	2.50000	2.556
	79 Dibenzo(a,h)anthracene	278	29.394	29.386	(1.112)	145136	2.50000	2.549
	80 Benzo(g,h,i)perylene	276	30.264	30.256	(1.145)	165848	2.50000	2.552
	90 N-Nitrosodimethylamine	74	5.014	5.021	(0.532)	96263	5.00000	5.352
	91 Aniline	93	8.876	8.876	(0.942)	214336	5.00000	5.131
	93 Benzidine	184	21.216	21.216	(0.899)	226574	5.00000	5.012
	103 Pyridine	79	5.044	5.052	(0.535)	147825	2.50000	2.602
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	157293	2.50000	2.491
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.091)	144428	2.50000	2.513
	187 Total Benzofluoranthenes	252	25.621	25.621	(0.970)	389429	5.00000	5.006

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.047)	25888	2.50000	2.101

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081911.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081911.D
Lab Smp Id: SJH0235-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	83542	-14.33
27 Naphthalene-d8	336155	168078	672310	276508	-17.74
42 Acenaphthene-d10	204971	102486	409942	168481	-17.80
59 Phenanthrene-d10	357720	178860	715440	296582	-17.09
69 Chrysene-d12	291052	145526	582104	238624	-18.01
134 Di-n-octylphthala	588887	294444	1177774	448647	-23.81
77 Perylene-d12	273109	136555	546218	221651	-18.84

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.08
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.60	-0.03
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081911.D

Lab ID: SJH0235-CAL4
nt10.i, ABN.m, 19-AUG-2021 18:09

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

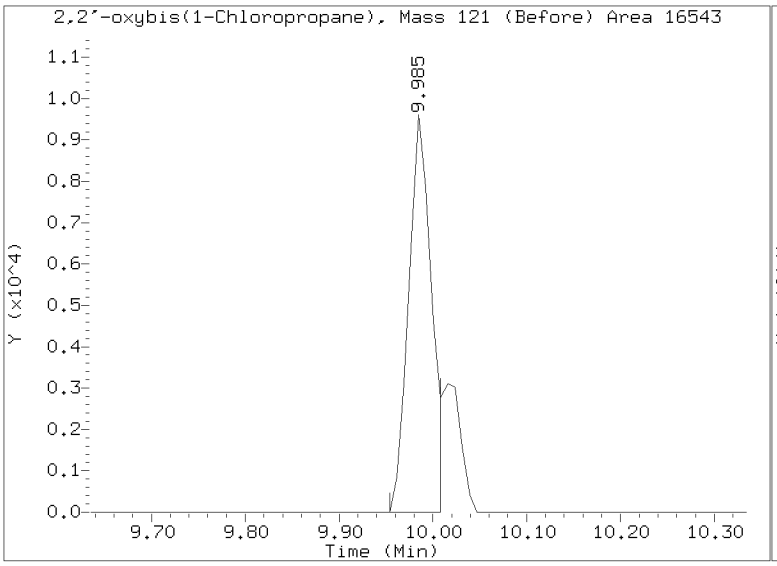
RRT check based on Ccal File: NT1021081912.D

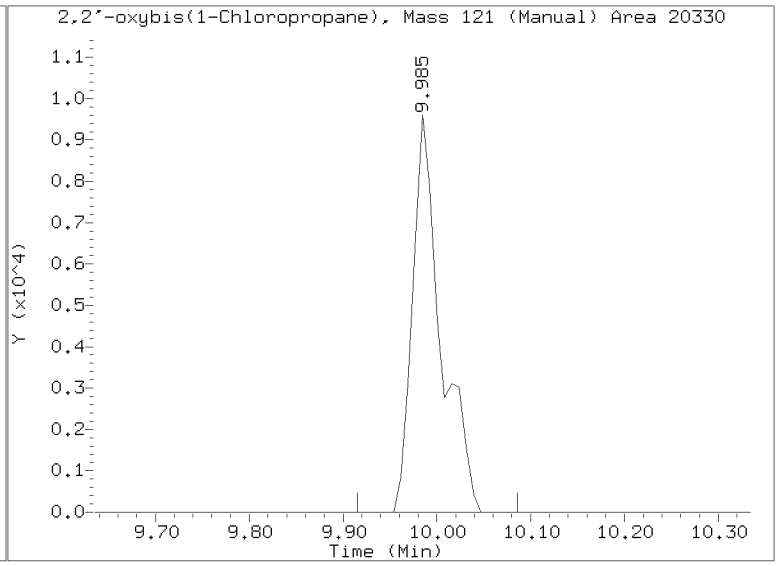
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081911.D
Injection Date: 19-AUG-2021 18:09
Lab ID:SJH0235-CAL4 Client ID:
Report Date: 08/20/2021 12:55





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Page 1

Date : 19-AUG-2021 18:48

Client ID:

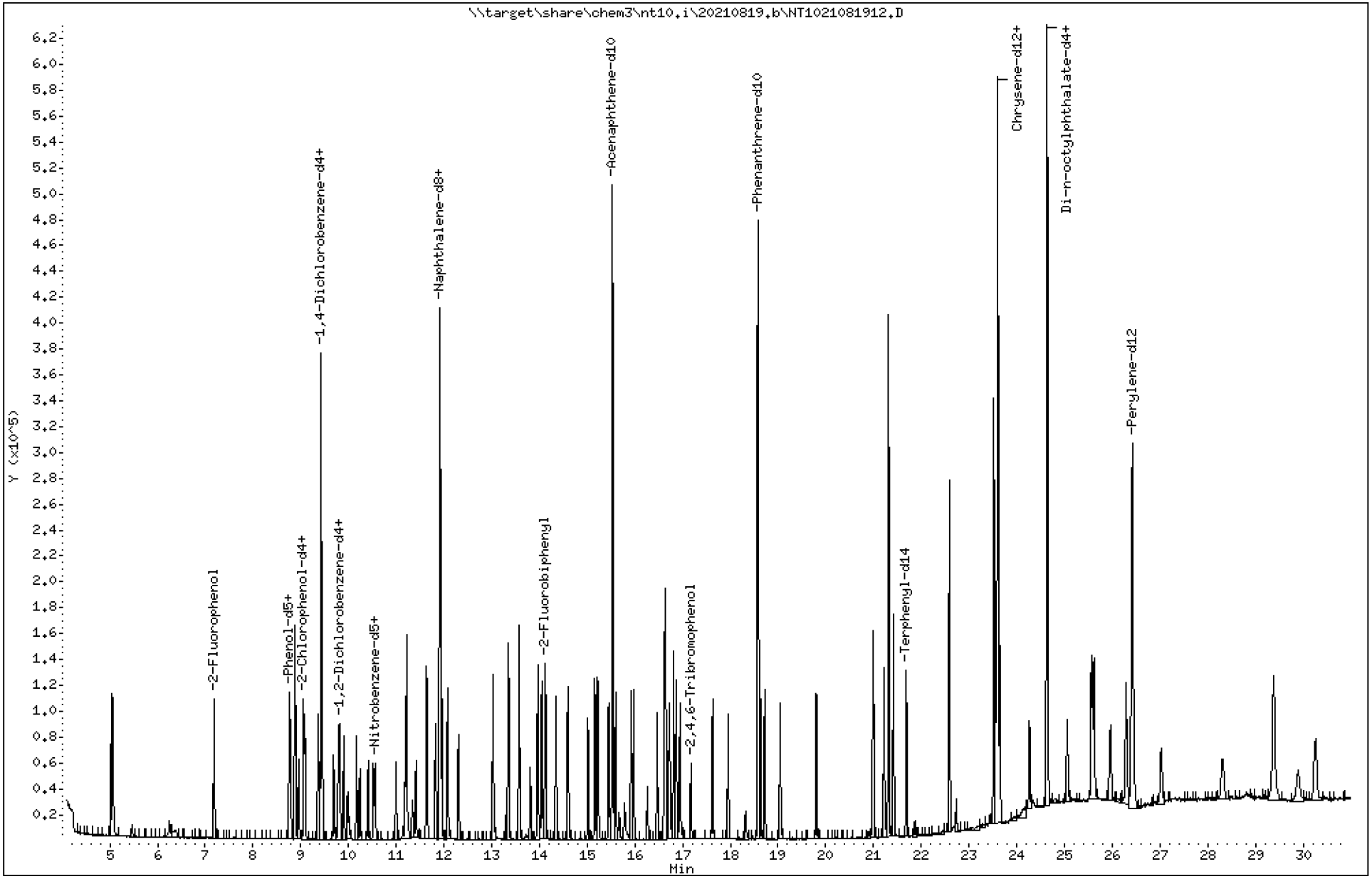
Instrument: nt10.i

Sample Info: SJH0235-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081912.D
Lab Smp Id: SJH0235-CAL3
Inj Date : 19-AUG-2021 18:48
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.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-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.184	7.184	(0.762)	50524	1.50000	1.534
$	2 Phenol-d5	99	8.761	8.761	(0.929)	65358	1.50000	1.386
	3 Phenol	94	8.784	8.784	(0.932)	44865	1.00000	1.040
$	5 2-Chlorophenol-d4	132	9.062	9.062	(0.961)	48400	1.50000	1.441
	4 Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.951)	33468	1.00000	1.060
	6 2-Chlorophenol	128	9.093	9.093	(0.965)	36786	1.00000	1.027
	7 1,3-Dichlorobenzene	146	9.364	9.364	(0.993)	39943	1.00000	1.073
*	8 1,4-Dichlorobenzene-d4	152	9.426	9.426	(1.000)	98537	4.00000	
	9 1,4-Dichlorobenzene	146	9.457	9.457	(1.003)	29036	1.00000	1.030
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.039)	22445	1.00000	0.9838
	12 1,2-Dichlorobenzene	146	9.814	9.814	(1.041)	33865	1.00000	1.056
	11 Benzyl alcohol	108	9.689	9.689	(1.028)	19930	1.00000	1.004
	14 2,2'-oxybis(1-Chloropropane)	121	9.984	9.984	(1.059)	10445	1.00000	1.098(M)
	13 2-Methylphenol	108	9.907	9.907	(1.051)	28188	1.00000	1.031
	17 Hexachloroethane	117	10.411	10.411	(1.105)	11996	1.00000	0.9840
	16 N-Nitroso-di-n-propylamine	70	10.241	10.241	(1.086)	19829	1.00000	1.034
	15 4-Methylphenol	108	10.171	10.171	(1.079)	29942	1.00000	1.026
$	18 Nitrobenzene-d5	82	10.520	10.520	(0.883)	32659	1.00000	0.9619
	19 Nitrobenzene	77	10.559	10.559	(0.886)	31275	1.00000	0.9991
	20 Isophorone	82	11.001	11.001	(0.923)	44770	1.00000	0.9254
	21 2-Nitrophenol	139	11.186	11.186	(0.939)	17129	1.00000	0.9608
	22 2,4-Dimethylphenol	107	11.220	11.220	(0.942)	59073	2.00000	2.147
	23 Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	30909	1.00000	1.082
	24 Benzoic acid	105	11.339	11.339	(0.952)	20902	4.00000	1.502
	25 2,4-Dichlorophenol	162	11.636	11.636	(0.977)	56790	2.00000	2.014
	26 1,2,4-Trichlorobenzene	180	11.828	11.828	(0.993)	29153	1.00000	1.068
*	27 Naphthalene-d8	136	11.913	11.913	(1.000)	324274	4.00000	
	28 Naphthalene	128	11.959	11.959	(1.004)	80338	1.00000	0.9986
	29 4-Chloroaniline	127	12.075	12.075	(1.014)	67894	2.00000	1.742
	30 Hexachlorobutadiene	225	12.307	12.307	(1.033)	16071	1.00000	1.070
	31 4-Chloro-3-methylphenol	107	13.027	13.027	(1.093)	50756	2.00000	1.792
	32 2-Methylnaphthalene	142	13.352	13.352	(1.121)	74874	1.00000	0.9753
	33 Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	15515	2.00000	1.102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	35278	2.00000	1.775
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	36654	2.00000	1.756
$	36 2-Fluorobiphenyl	172	14.126	14.126	(0.909)	75104	1.00000	0.9594
	37 2-Chloronaphthalene	162	14.350	14.350	(0.924)	60767	1.00000	0.9751
	38 2-Nitroaniline	65	14.598	14.598	(0.940)	34141	2.00000	1.845
	39 Dimethylphthalate	163	15.016	15.016	(0.967)	67585	1.00000	1.052
	40 Acenaphthylene	152	15.225	15.225	(0.980)	100472	1.00000	1.035
	41 2,6-Dinitrotoluene	165	15.163	15.163	(0.976)	28707	2.00000	2.023
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	195945	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	32888	2.00000	1.721
	44 Acenaphthene	153	15.596	15.596	(1.004)	49494	1.00000	0.9636
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.009)	7210	4.00000	0.9653
	46 Dibenzofuran	168	15.928	15.928	(1.025)	88190	1.00000	0.9662
	47 4-Nitrophenol	109	15.782	15.782	(1.016)	9332	2.00000	1.348(M)
	48 2,4-Dinitrotoluene	165	15.975	15.975	(1.028)	36442	2.00000	1.839
	50 Diethylphthalate	149	16.470	16.470	(1.060)	58890	1.00000	1.017
	49 Fluorene	166	16.640	16.640	(1.071)	84547	1.00000	1.044
	51 4-Chlorophenyl-phenylether	204	16.616	16.616	(1.070)	37782	1.00000	1.042
	52 4-Nitroaniline	138	16.724	16.724	(1.077)	37981	2.00000	1.912
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	40843	4.00000	2.971
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	53321	1.00000	1.072
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	9074	1.50000	1.217
	56 4-Bromophenyl-phenylether	248	17.627	17.627	(0.949)	20008	1.00000	1.003
	57 Hexachlorobenzene	284	17.951	17.951	(0.966)	20253	1.00000	1.071
	58 Pentachlorophenol	266	18.315	18.315	(0.986)	6588	2.00000	0.9504
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	332620	4.00000	
	60 Phenanthrene	178	18.624	18.624	(1.002)	80502	1.00000	0.9913
	61 Anthracene	178	18.717	18.717	(1.007)	86500	1.00000	0.9914
	62 Carbazole	167	19.042	19.042	(1.025)	85571	1.00000	0.9523
	63 Di-n-butylphthalate	149	19.800	19.800	(1.066)	102843	1.00000	0.9251
	64 Fluoranthene	202	20.992	20.992	(0.889)	113381	1.00000	0.9663
	65 Pyrene	202	21.417	21.417	(0.907)	119462	1.00000	0.9920
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	75870	1.00000	1.003
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	48726	1.00000	1.028
	68 Benzo(a)anthracene	228	23.570	23.570	(0.999)	99424	1.00000	1.062
*	69 Chrysene-d12	240	23.601	23.601	(1.000)	268052	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.997)	108295	3.00000	2.907
	71 Chrysene	228	23.647	23.647	(1.002)	73471	1.00000	0.9896
	72 bis(2-Ethylhexyl)phthalate	149	23.608	23.608	(0.959)	46717	1.00000	0.9902
*	134 Di-n-octylphthalate-d4	153	24.630	24.630	(1.000)	490203	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.001)	109097	1.00000	1.010
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	91277	1.00000	1.019
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	88404	1.00000	1.007
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	79084	1.00000	0.9996
*	77 Perylene-d12	264	26.419	26.419	(1.000)	243444	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.371	29.371	(1.112)	86163	1.00000	1.054
	79 Dibenzo(a,h)anthracene	278	29.386	29.386	(1.112)	65961	1.00000	1.055
	80 Benzo(g,h,i)perylene	276	30.256	30.256	(1.145)	71847	1.00000	1.007
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.533)	44920	2.00000	2.117
	91 Aniline	93	8.876	8.876	(0.942)	105143	2.00000	2.134
	93 Benzidine	184	21.216	21.216	(0.899)	97560	2.00000	1.921
	103 Pyridine	79	5.052	5.052	(0.536)	71302	1.00000	1.064
	105 1-methylnaphthalene	142	13.576	13.576	(1.140)	73454	1.00000	0.9919
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.940	16.940	(1.091)	69463	1.00000	1.039

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.621	25.621	(0.970)	171882	2.00000	2.012
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.047)	10281	1.00000	0.7199

QC Flag Legend

M - Compound response manually integrated.

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081912.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081912.D
Lab Smp Id: SJH0235-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	98537	1.04
27 Naphthalene-d8	336155	168078	672310	324274	-3.53
42 Acenaphthene-d10	204971	102486	409942	195945	-4.40
59 Phenanthrene-d10	357720	178860	715440	332620	-7.02
69 Chrysene-d12	291052	145526	582104	268052	-7.90
134 Di-n-octylphthala	588887	294444	1177774	490203	-16.76
77 Perylene-d12	273109	136555	546218	243444	-10.86

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.08
27 Naphthalene-d8	11.92	11.42	12.42	11.91	-0.06
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.60	-0.03
134 Di-n-octylphthala	24.64	24.14	25.14	24.63	-0.03
77 Perylene-d12	26.43	25.93	26.93	26.42	-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 - NT1021081912.D

Lab ID: SJH0235-CAL3
nt10.i, ABN.m, 19-AUG-2021 18:48

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

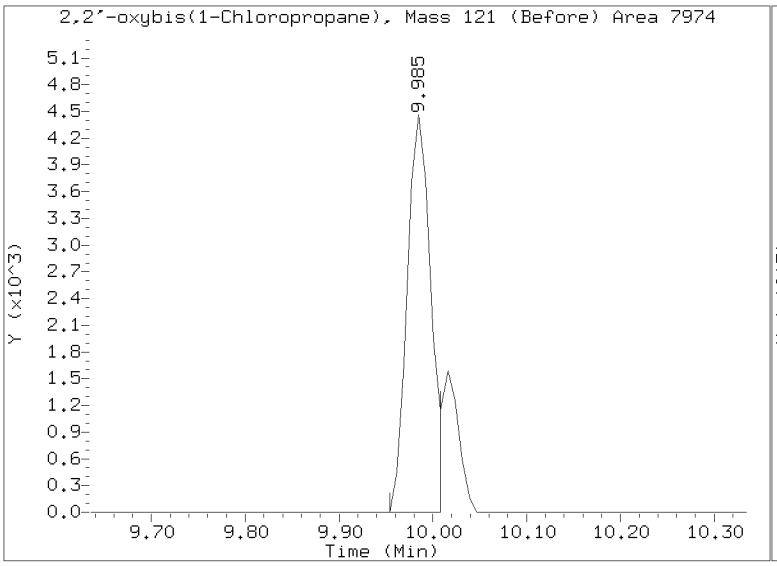
RRT check based on Ccal File: NT1021081912.D

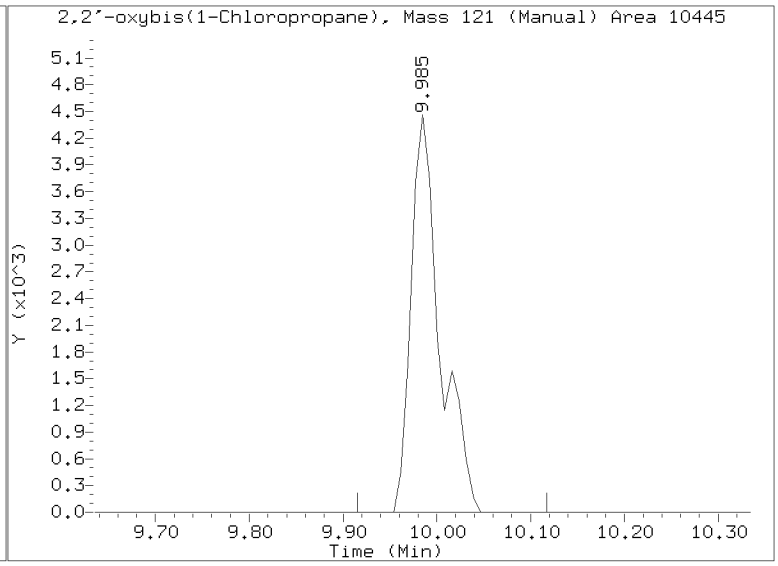
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

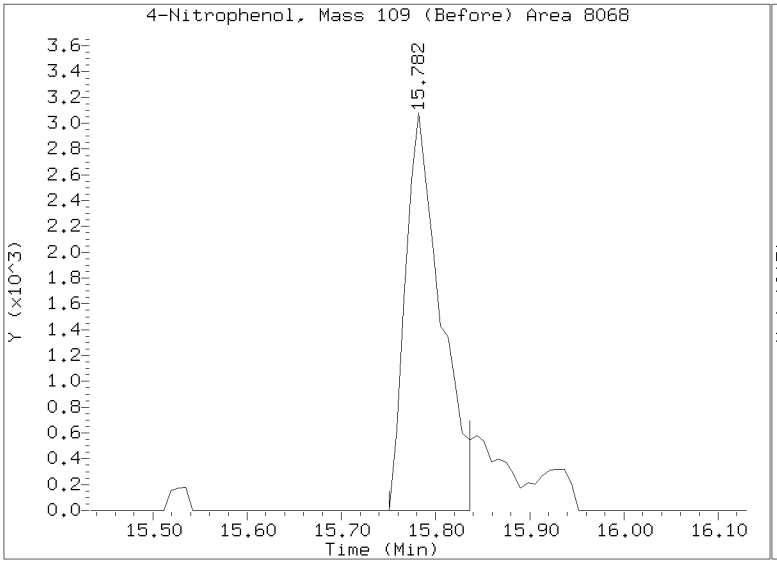
* Only compounds listed in the work order have been verified by the analyst *

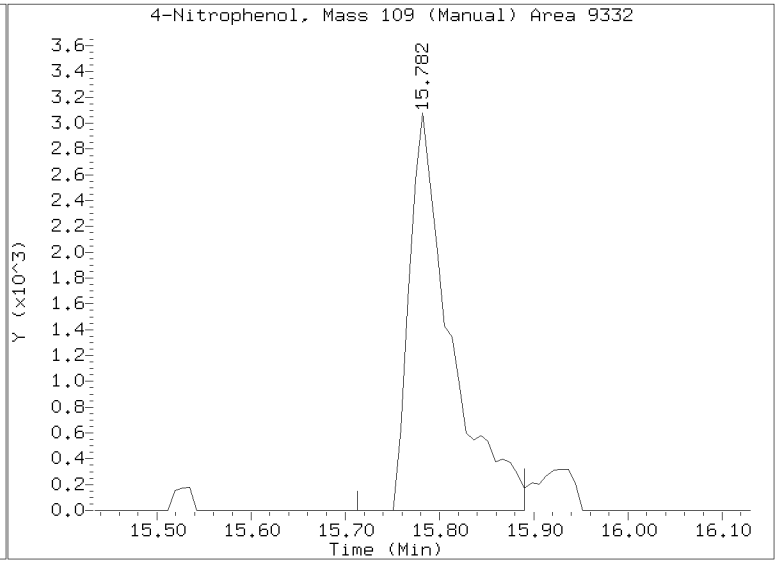
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210819.b/NT1021081912.D
Injection Date: 19-AUG-2021 18:48
Lab ID:SJH0235-CAL3 Client ID:
Report Date: 08/20/2021 12:55









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Page 1

Date : 19-AUG-2021 20:42

Client ID:

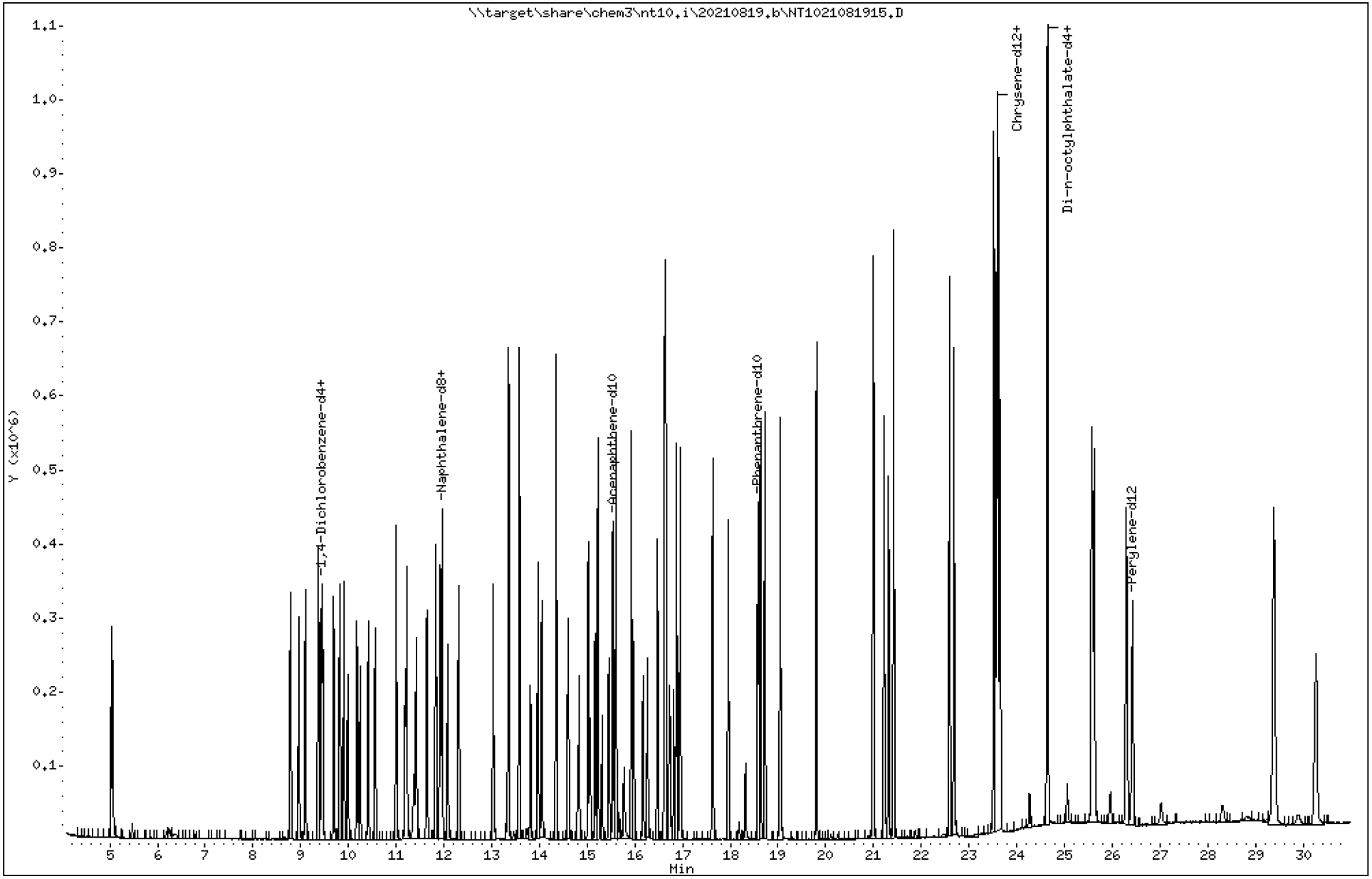
Instrument: nt10.i

Sample Info: SJH0235-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

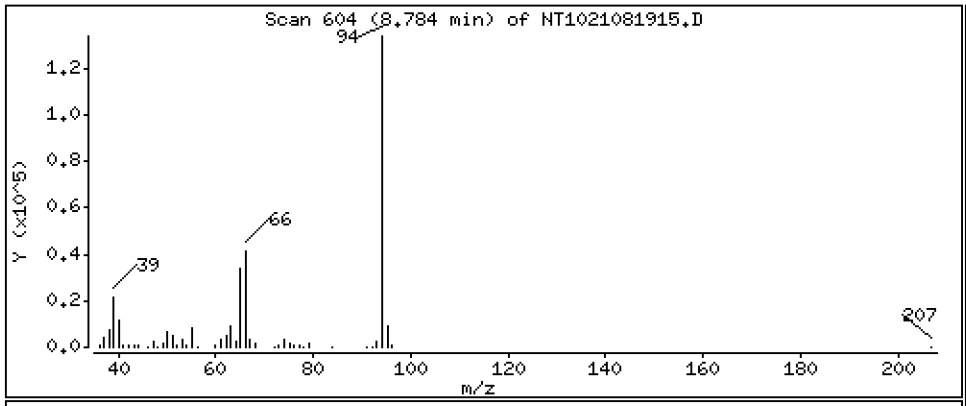
Operator: VTS

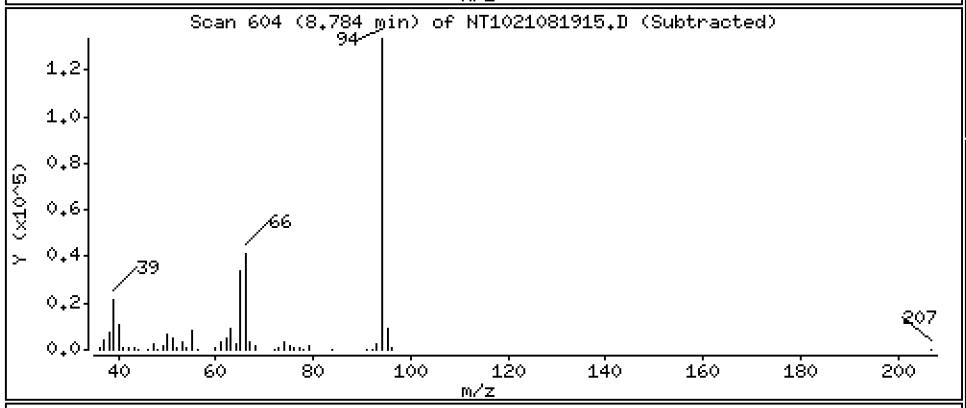
Column phase: ZB-5msi

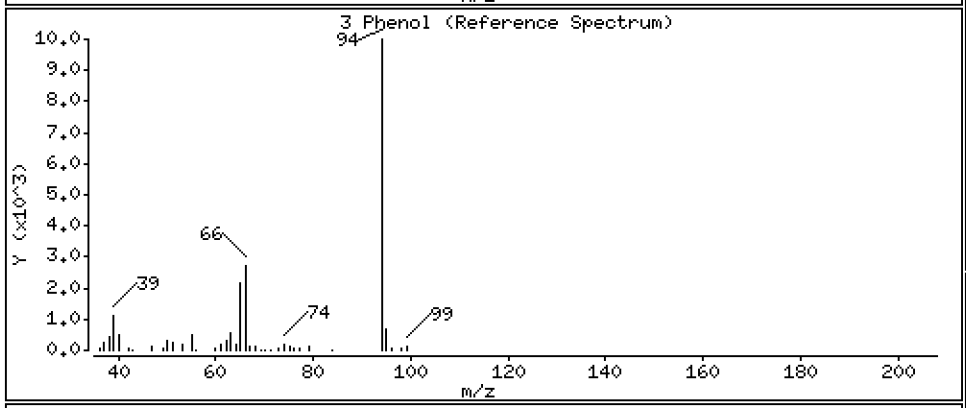
Column diameter: 0.25

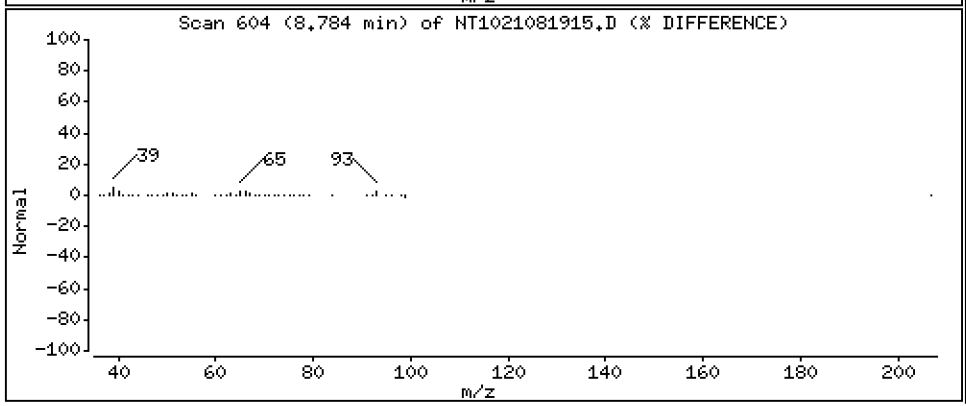
3 Phenol

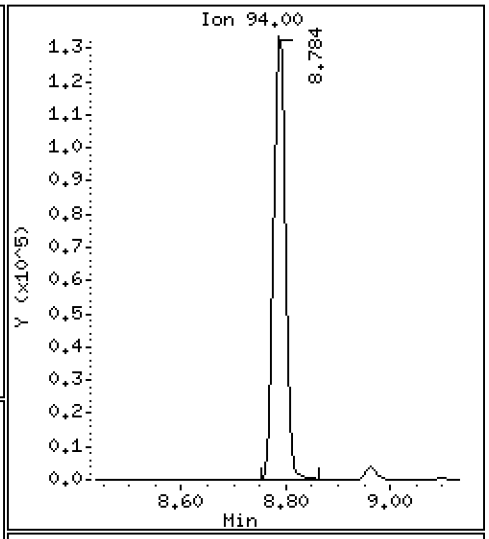
Concentration: 5.259 ug/mL

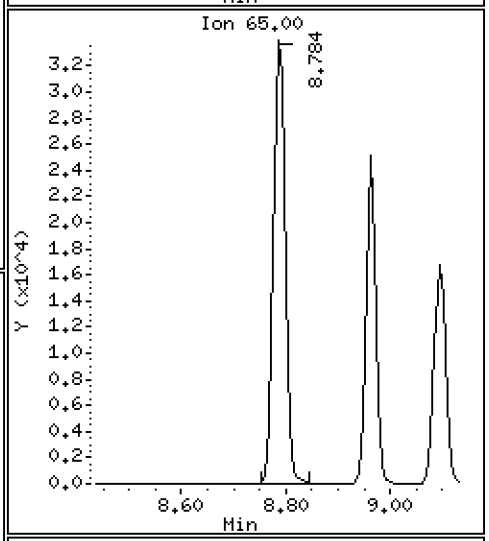


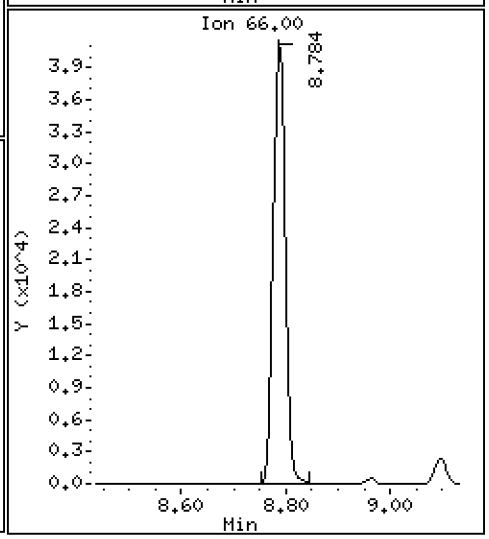












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

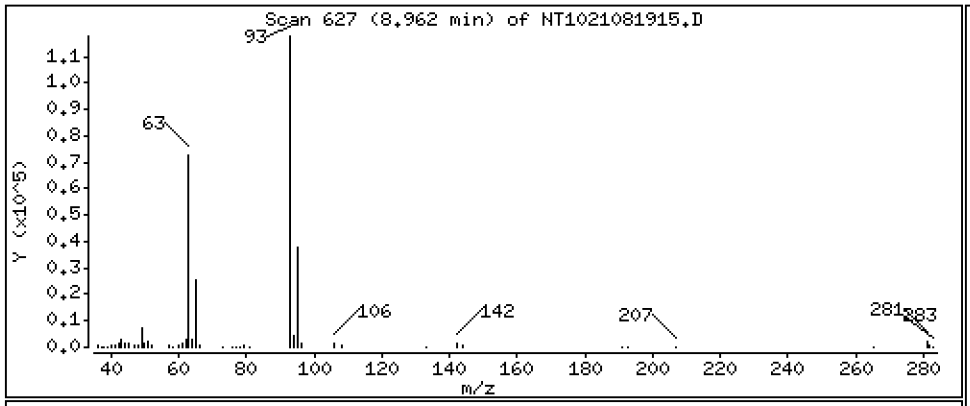
Operator: VTS

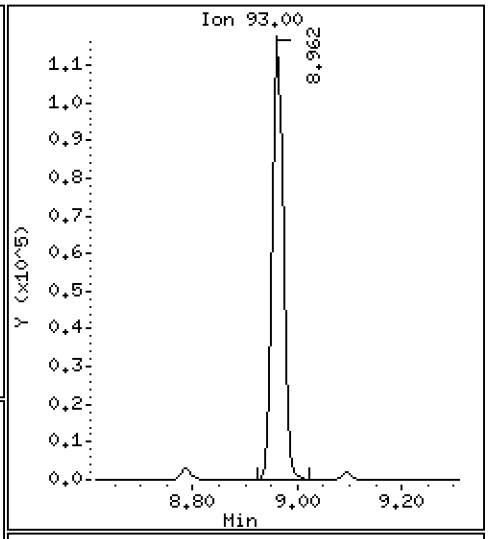
Column phase: ZB-5msi

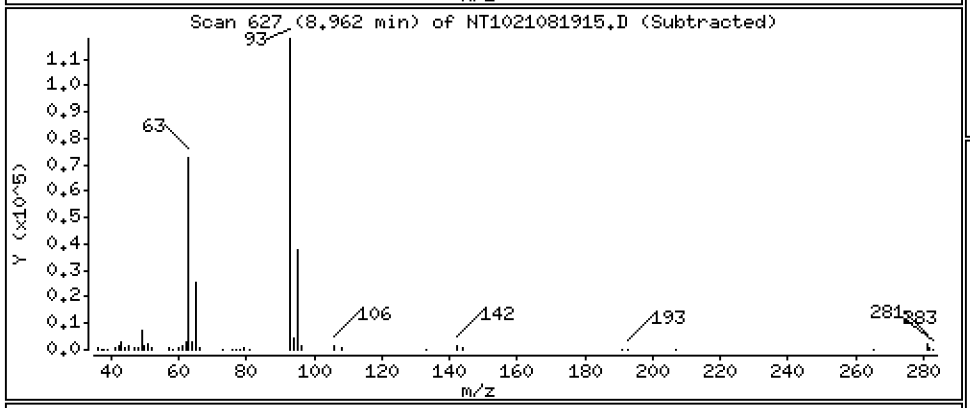
Column diameter: 0.25

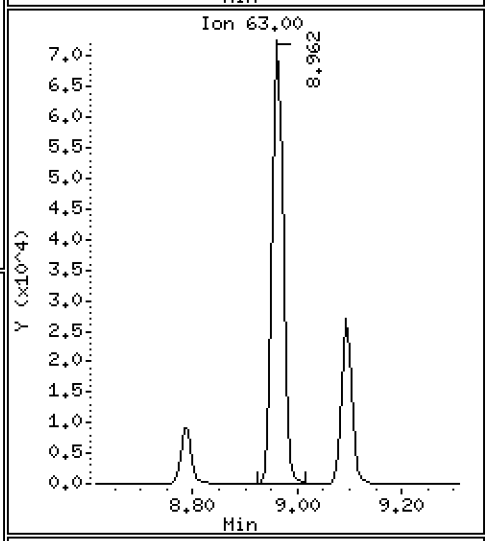
4 Bis(2-Chloroethyl)ether

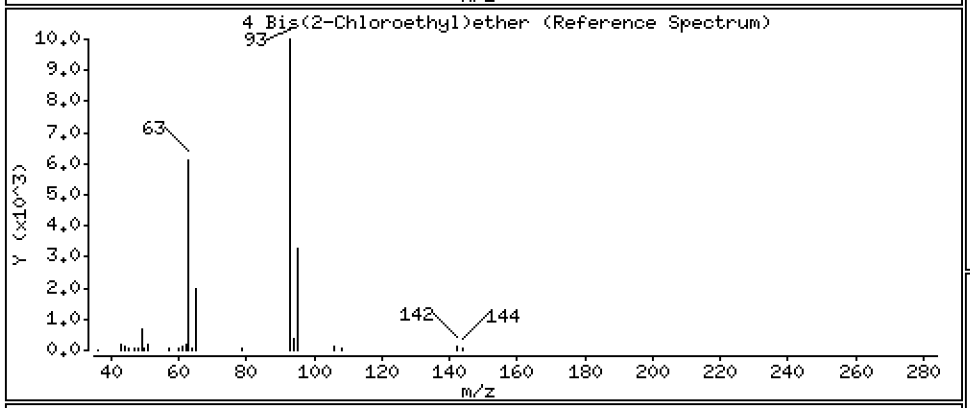
Concentration: 5.781 ug/mL

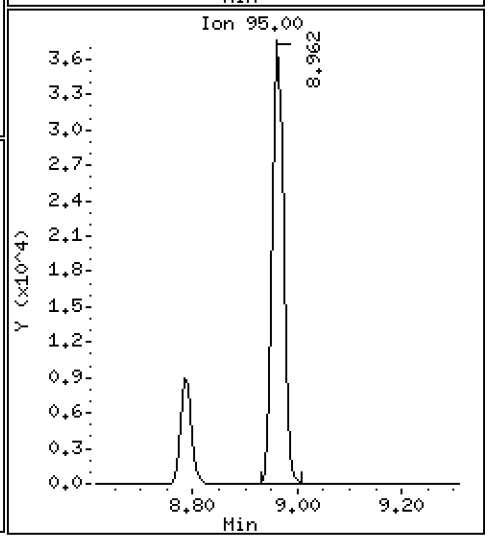


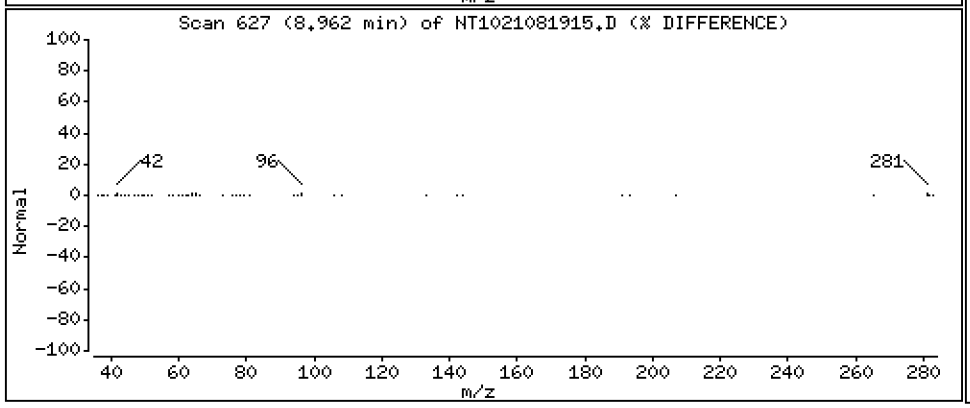












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

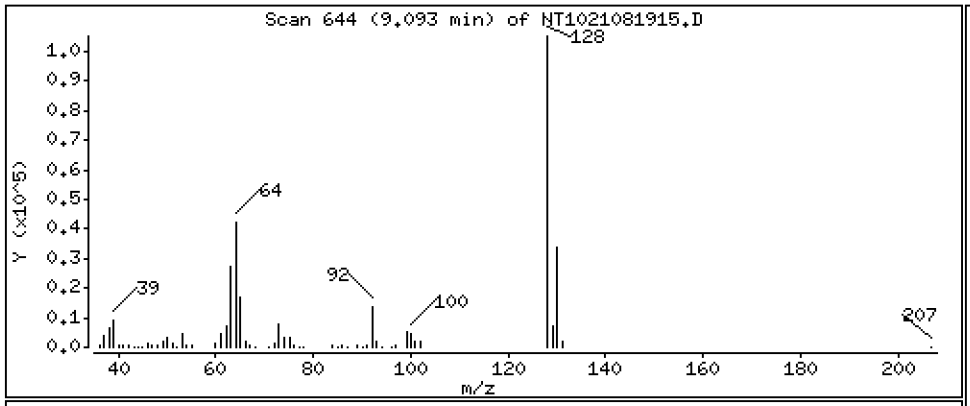
Operator: VTS

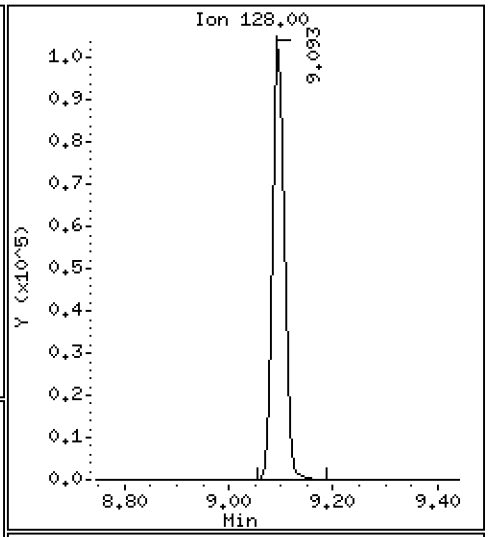
Column phase: ZB-5msi

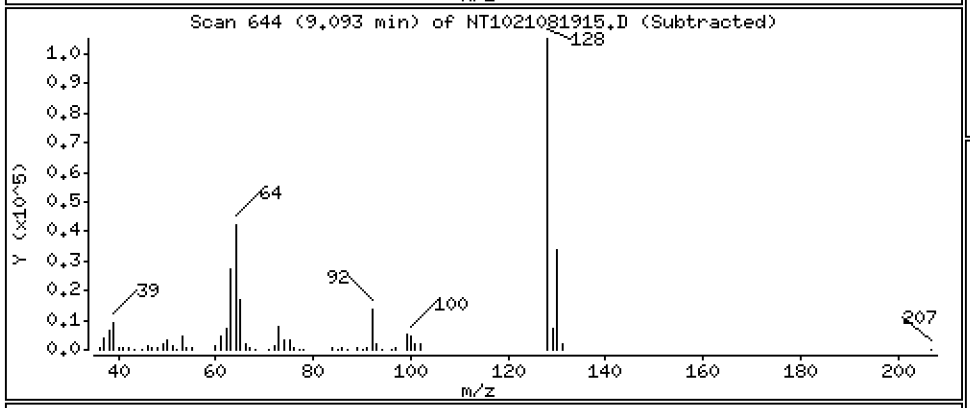
Column diameter: 0.25

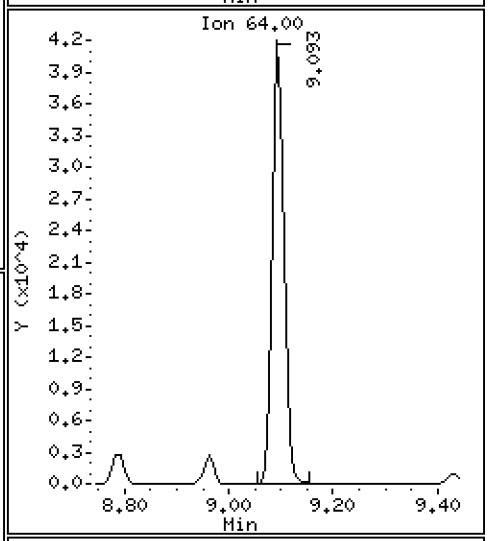
6 2-Chlorophenol

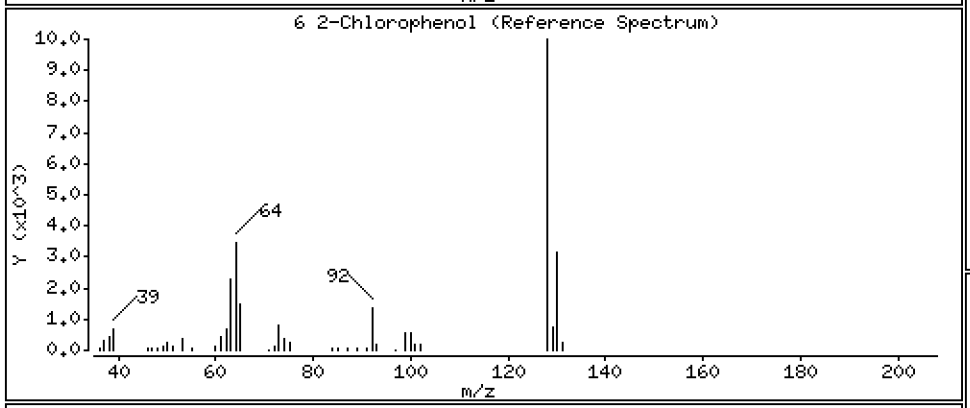
Concentration: 5.034 ug/mL

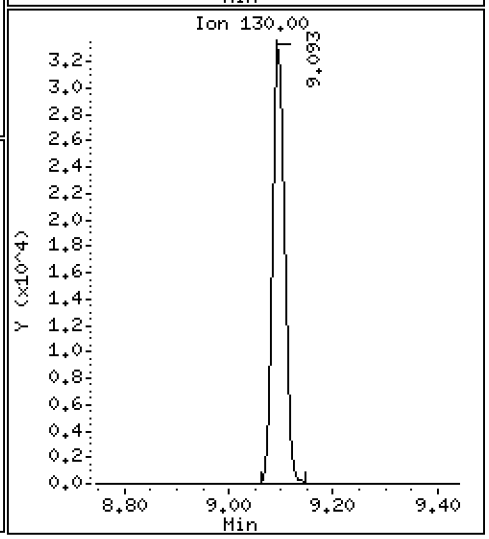


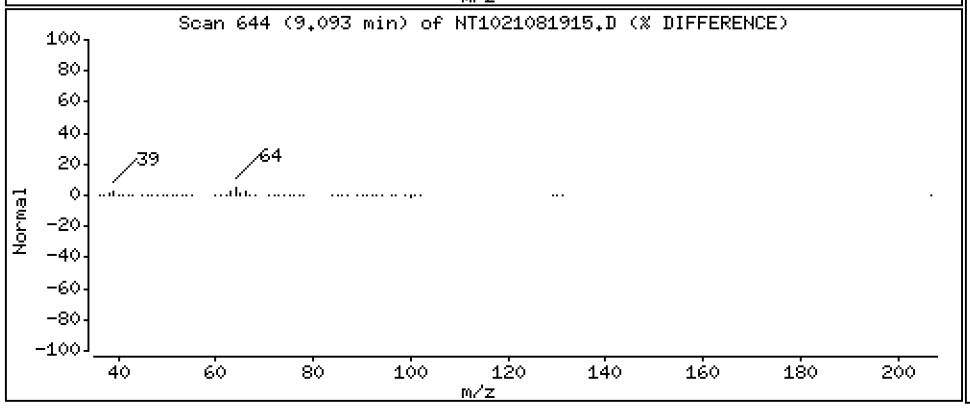












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

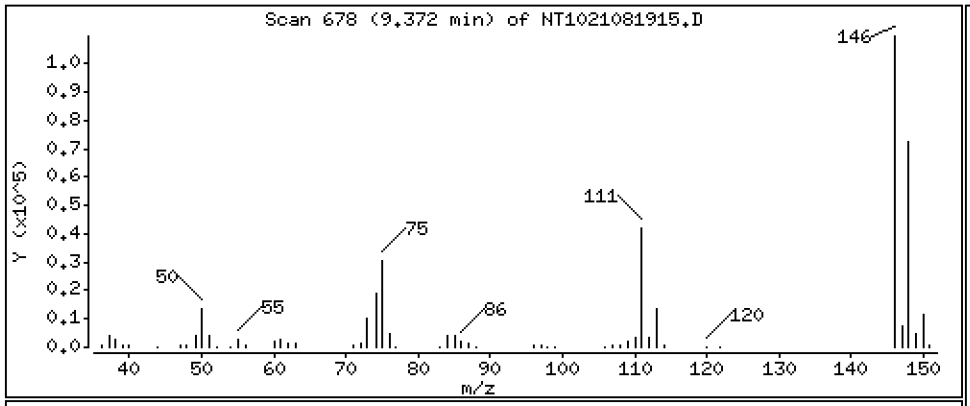
Operator: VTS

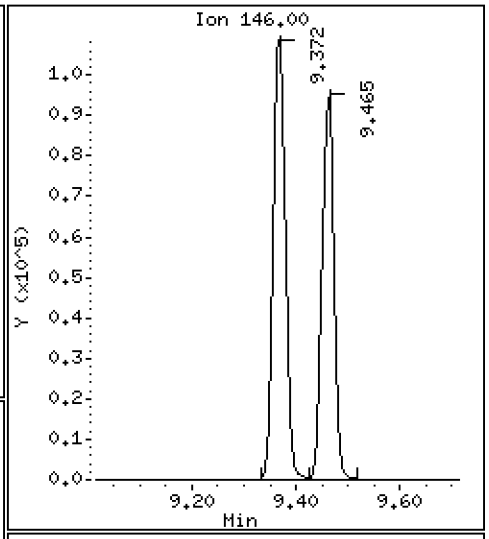
Column phase: ZB-5msi

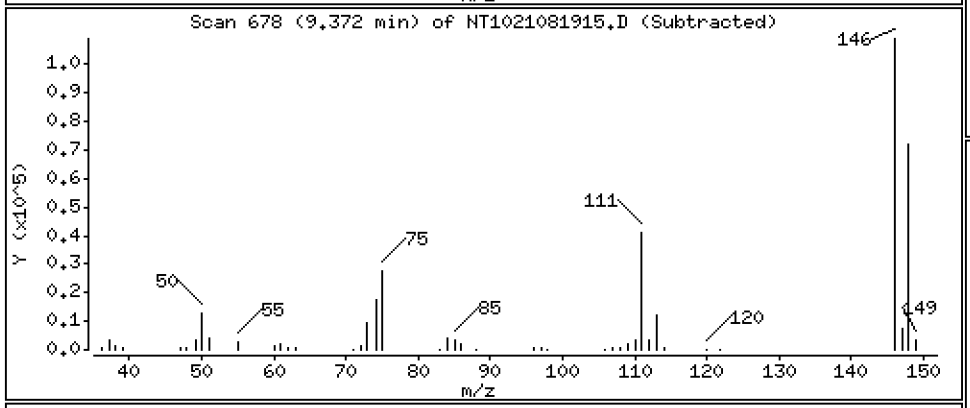
Column diameter: 0.25

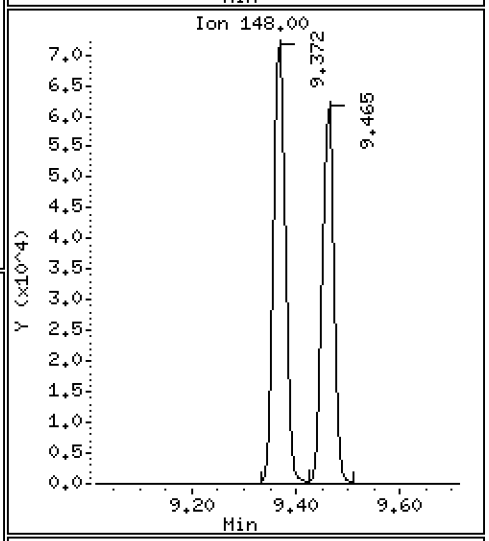
7 1,3-Dichlorobenzene

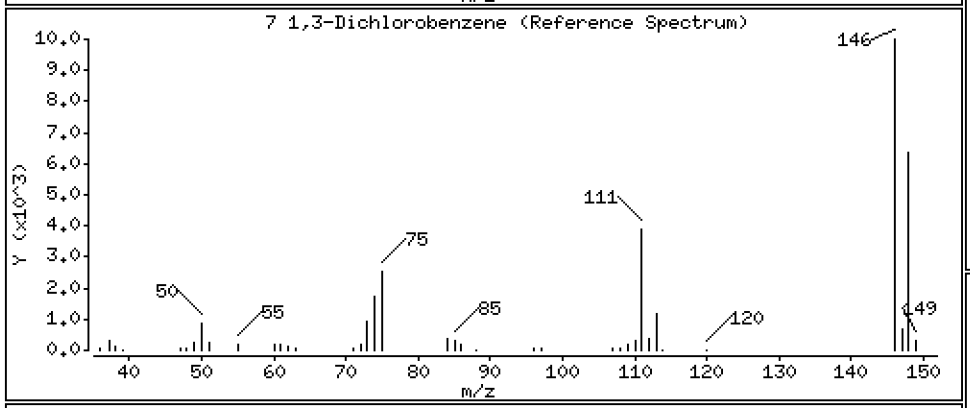
Concentration: 5.186 ug/mL

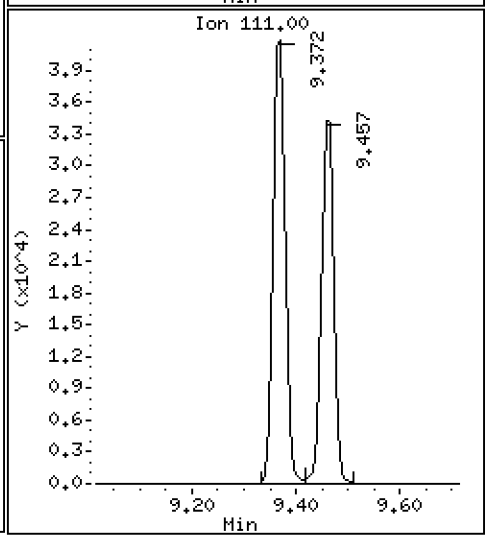


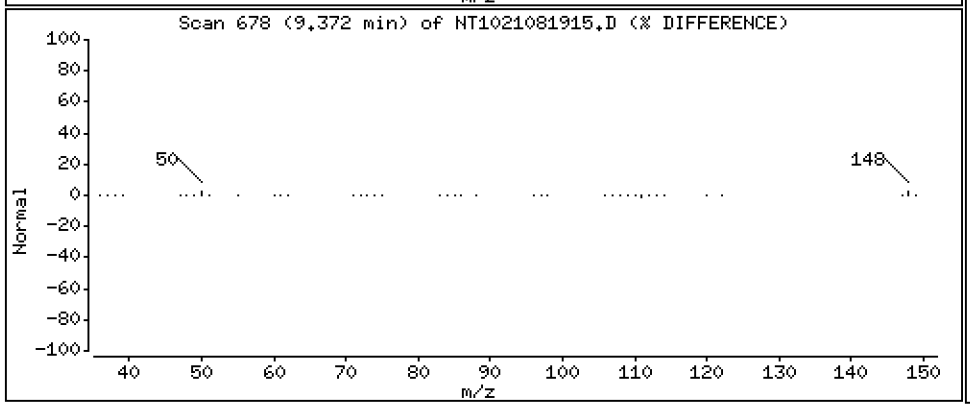












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

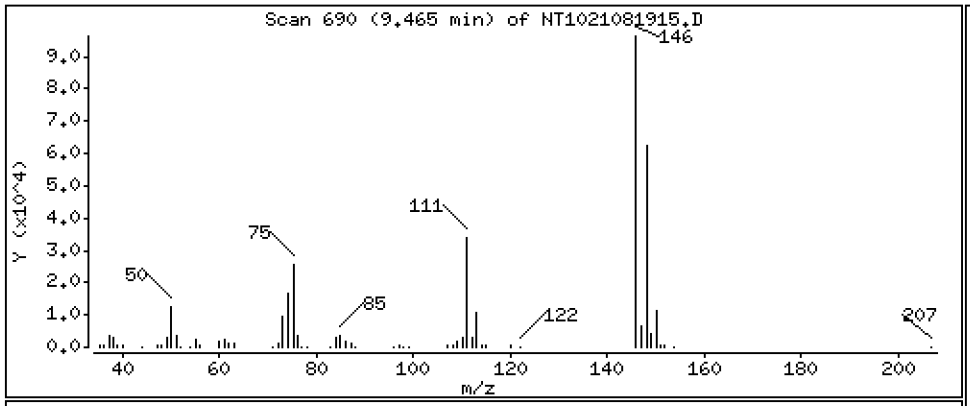
Operator: VTS

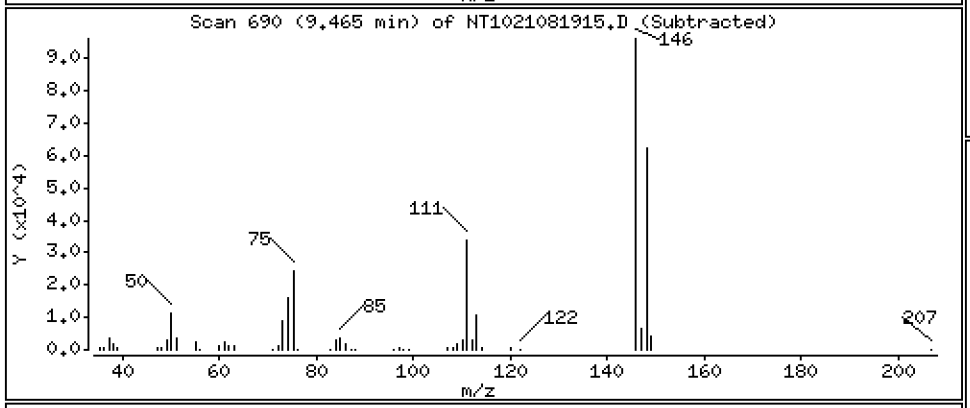
Column phase: ZB-5msi

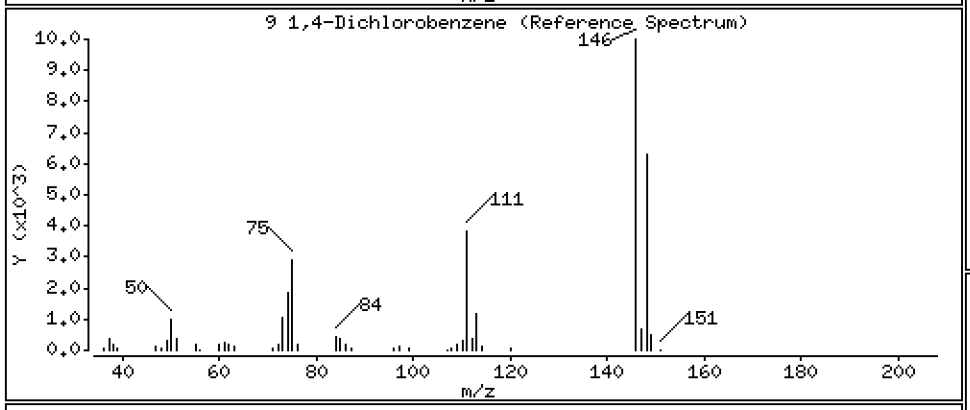
Column diameter: 0.25

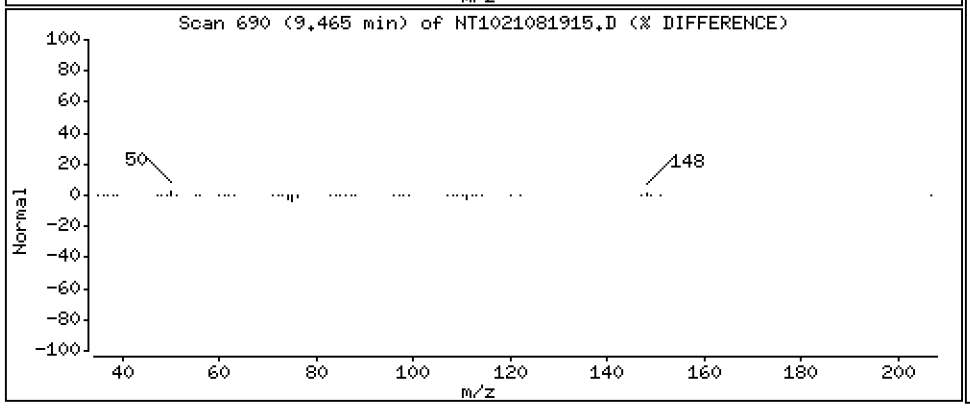
9 1,4-Dichlorobenzene

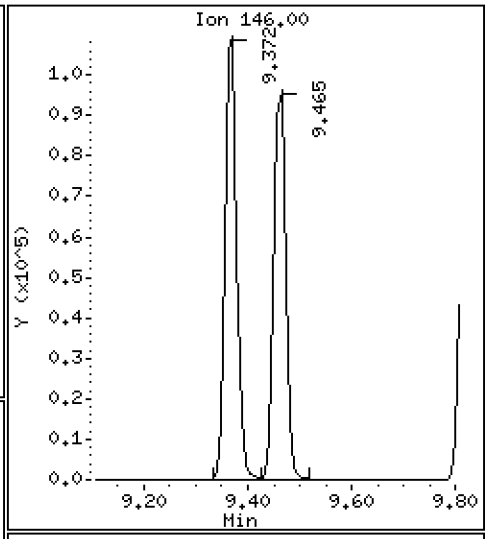
Concentration: 5.858 ug/mL

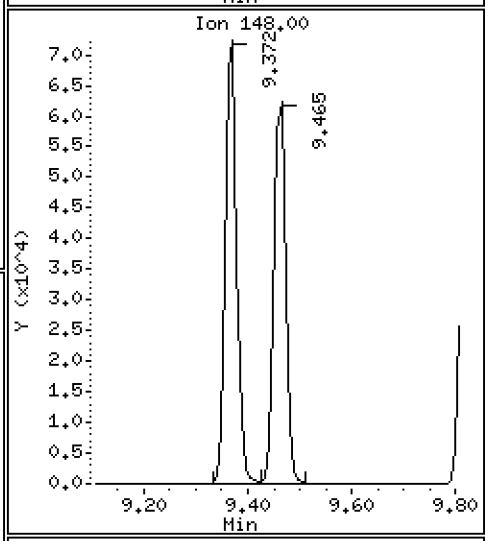


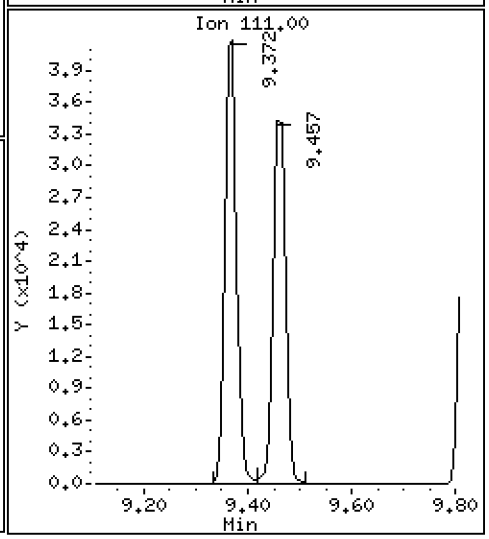












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

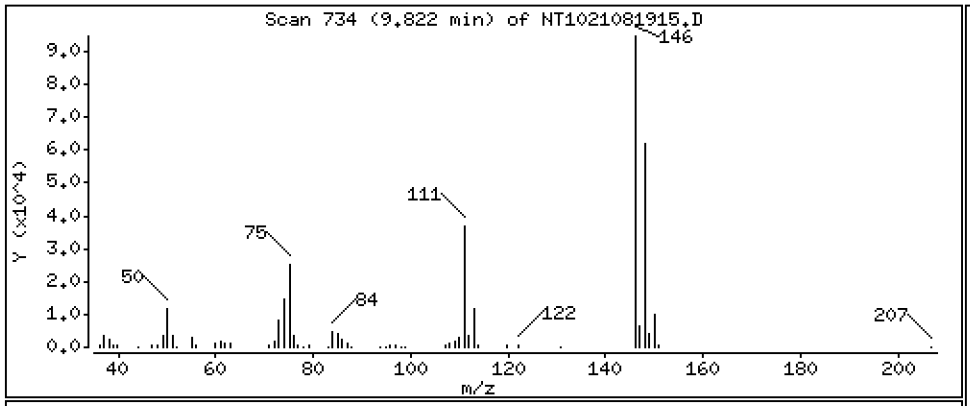
Operator: VTS

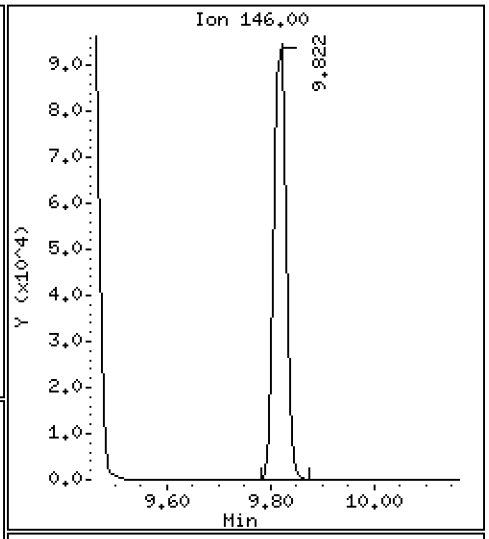
Column phase: ZB-5msi

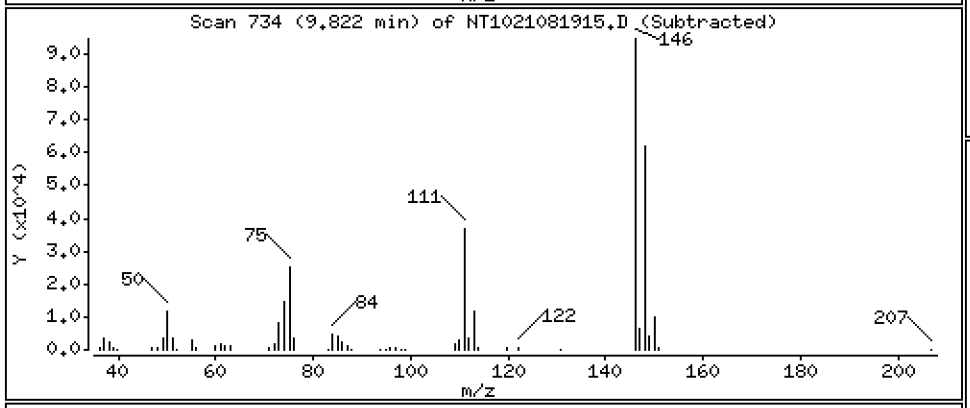
Column diameter: 0.25

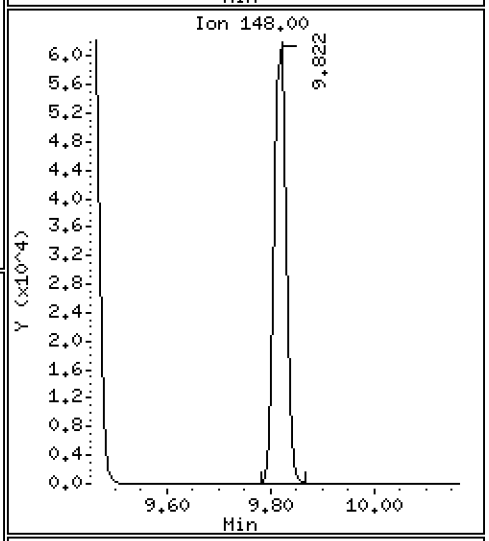
12 1,2-Dichlorobenzene

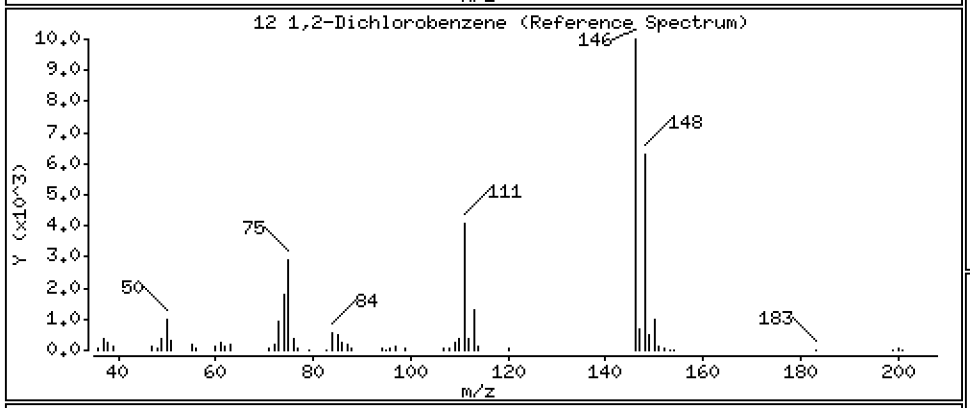
Concentration: 5.200 ug/mL

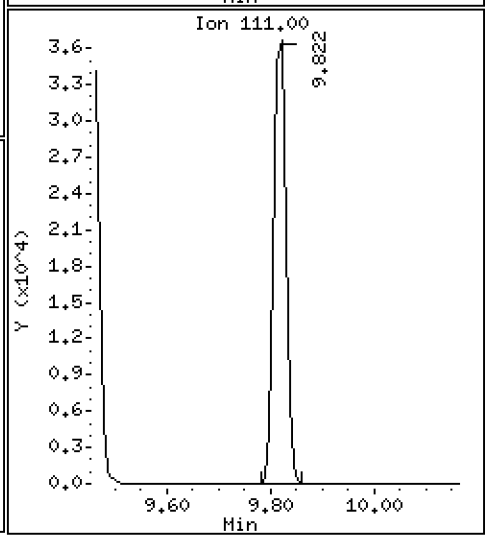


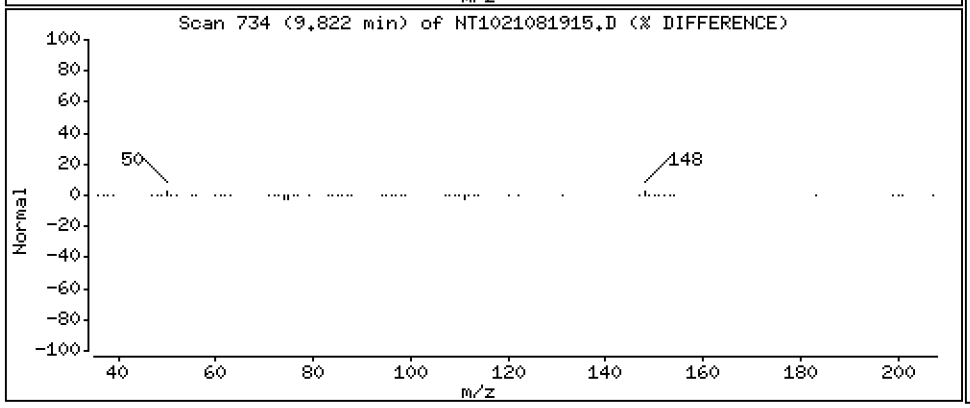












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

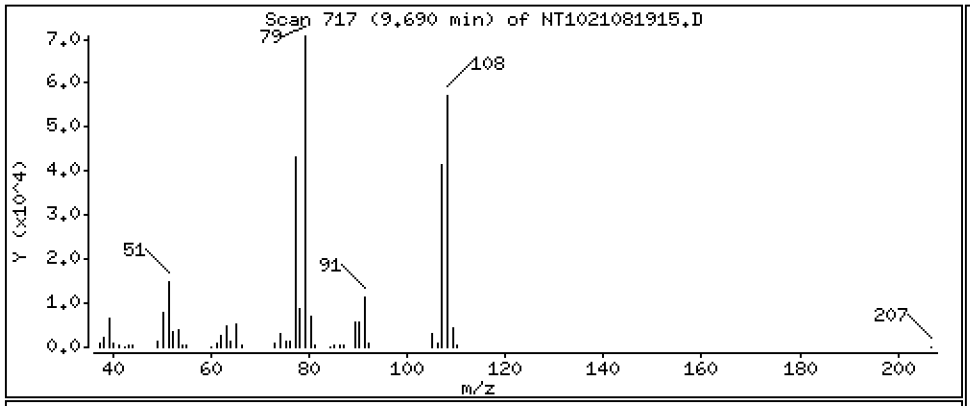
Operator: VTS

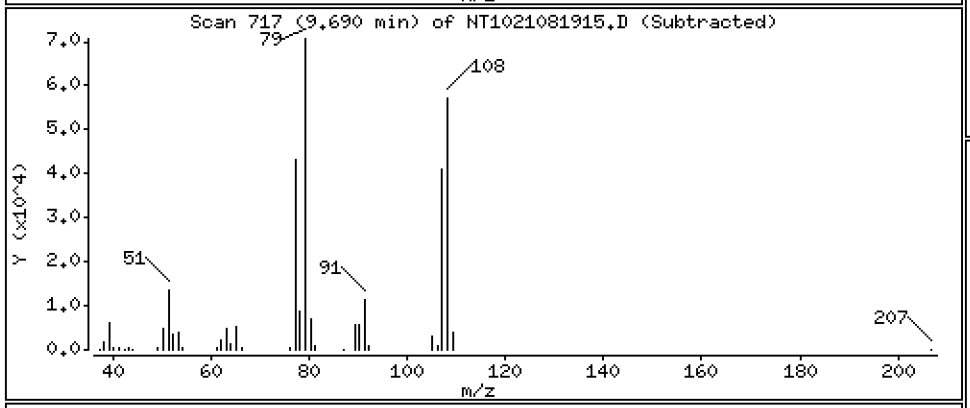
Column phase: ZB-5msi

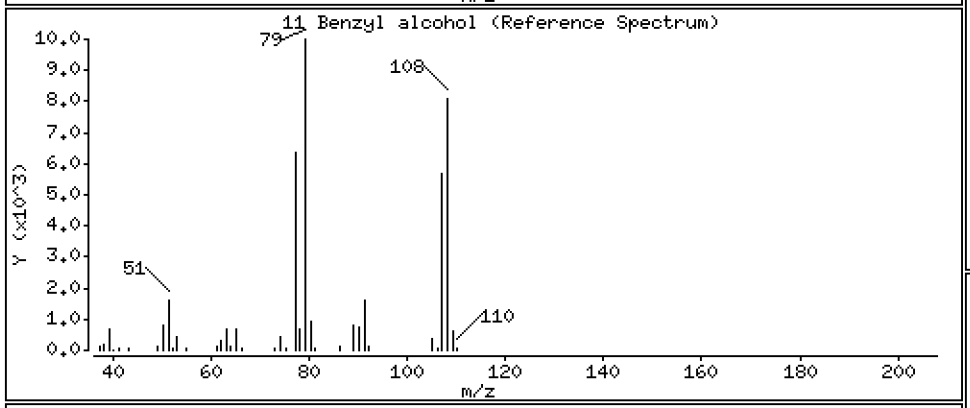
Column diameter: 0.25

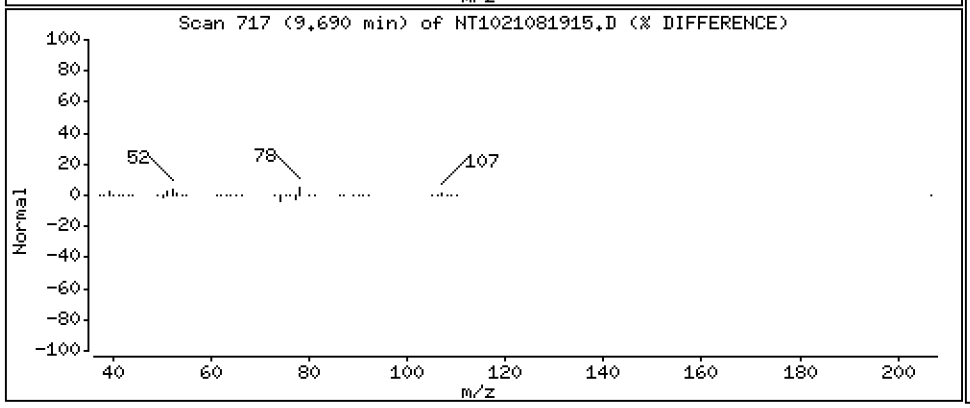
11 Benzyl alcohol

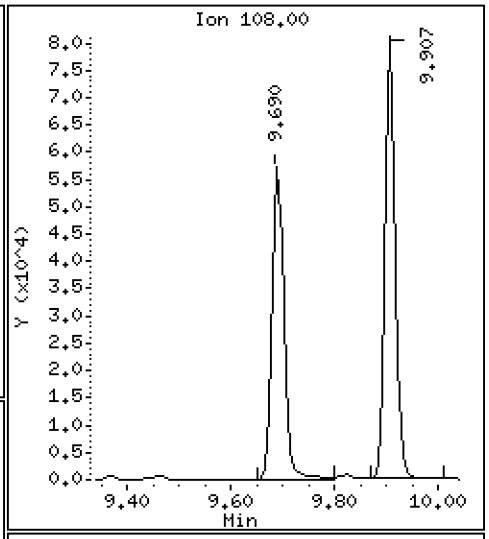
Concentration: 4.934 ug/mL

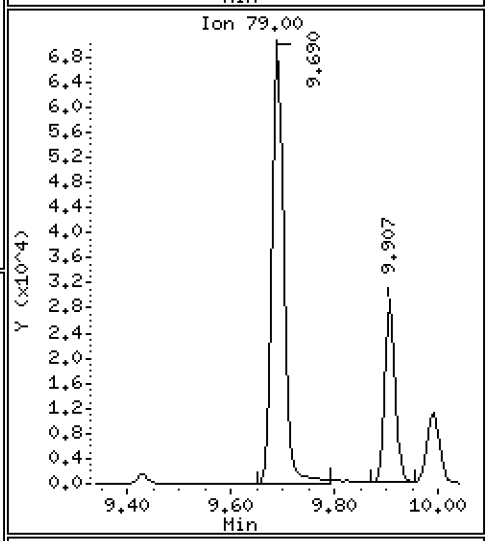


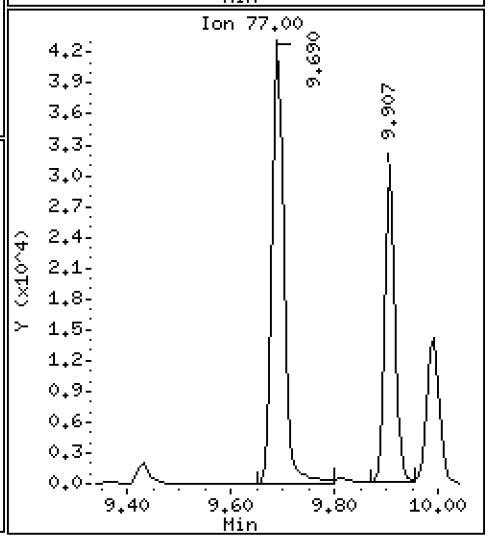












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

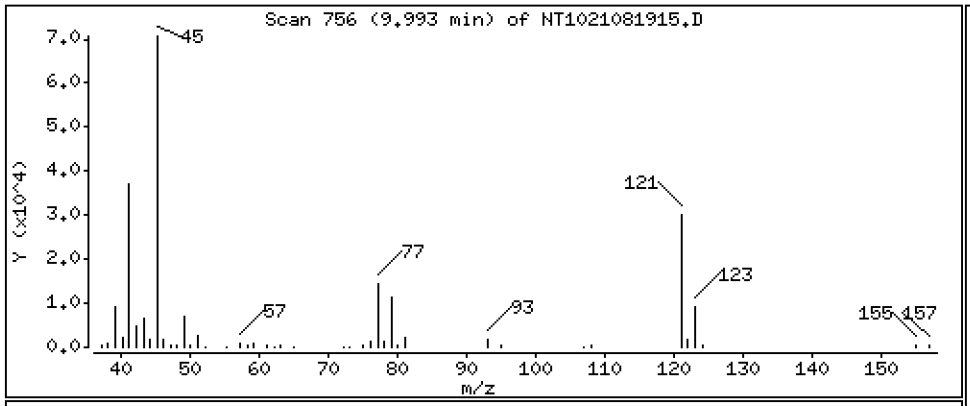
Operator: VTS

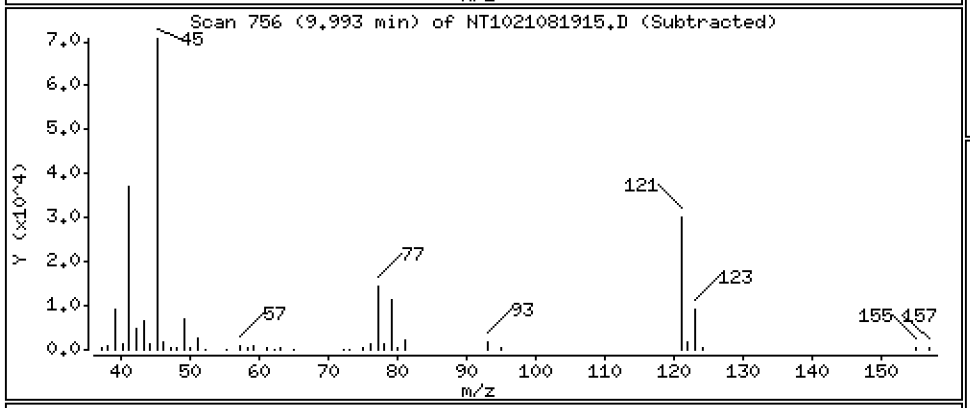
Column phase: ZB-5msi

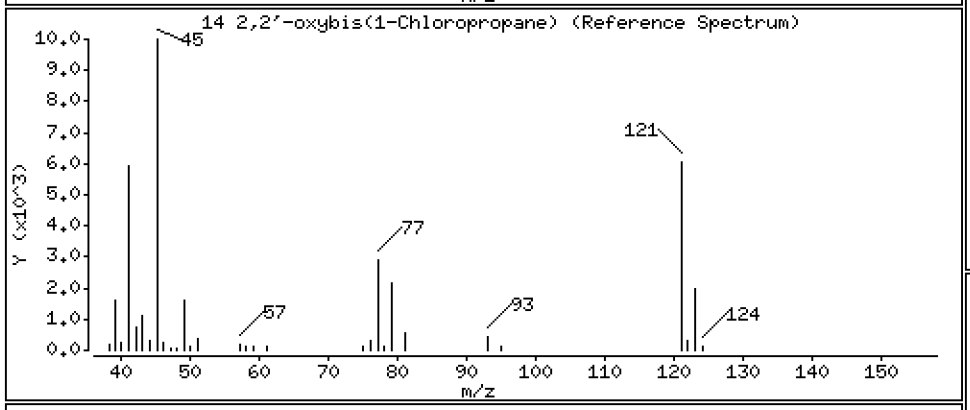
Column diameter: 0.25

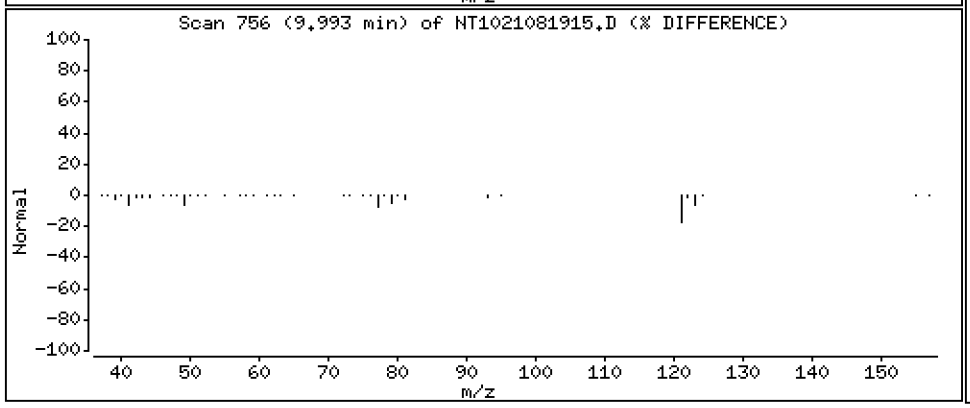
14 2,2'-oxybis(1-Chloropropane)

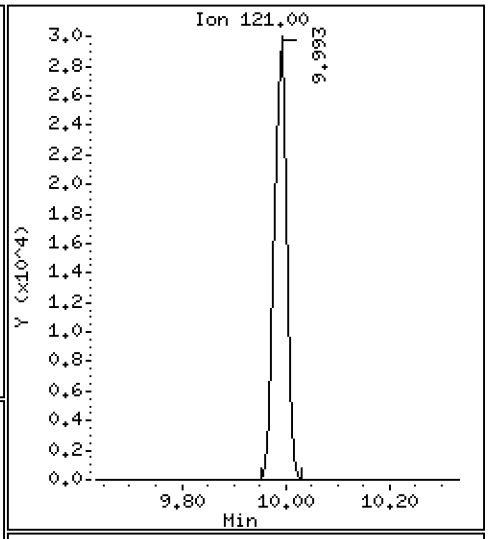
Concentration: 5.720 ug/mL

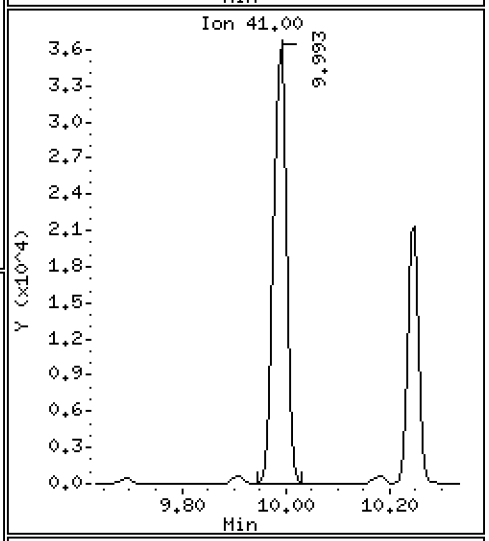


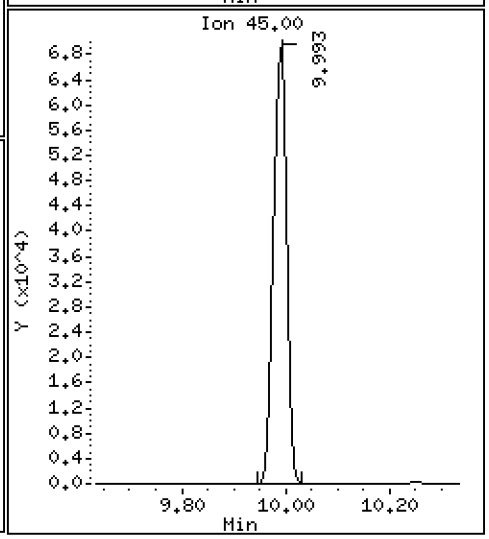












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

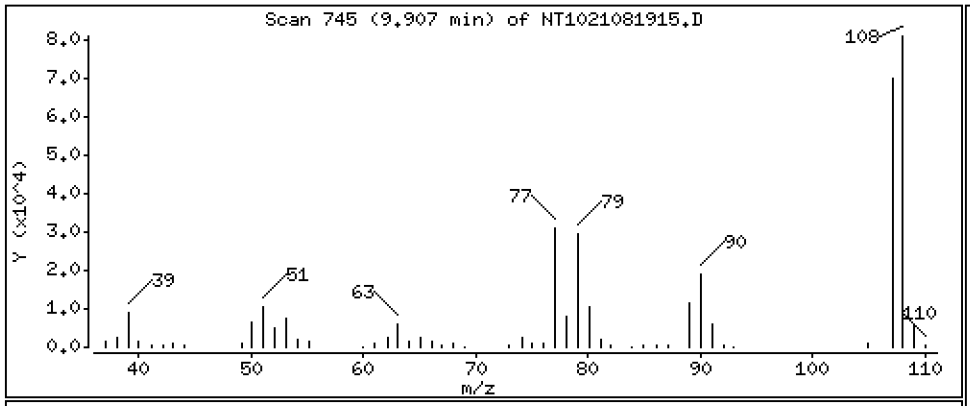
Operator: VTS

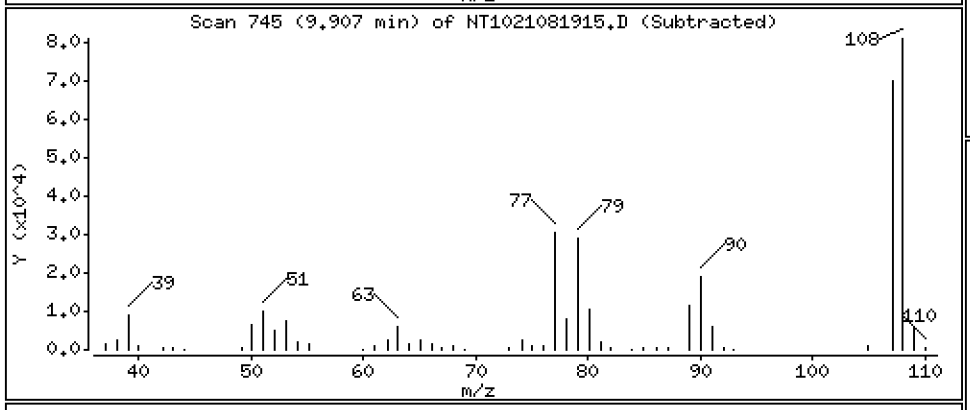
Column phase: ZB-5msi

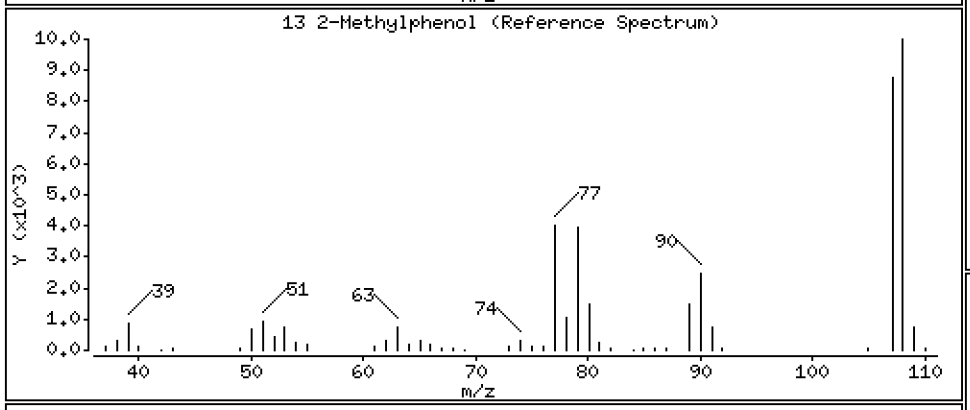
Column diameter: 0.25

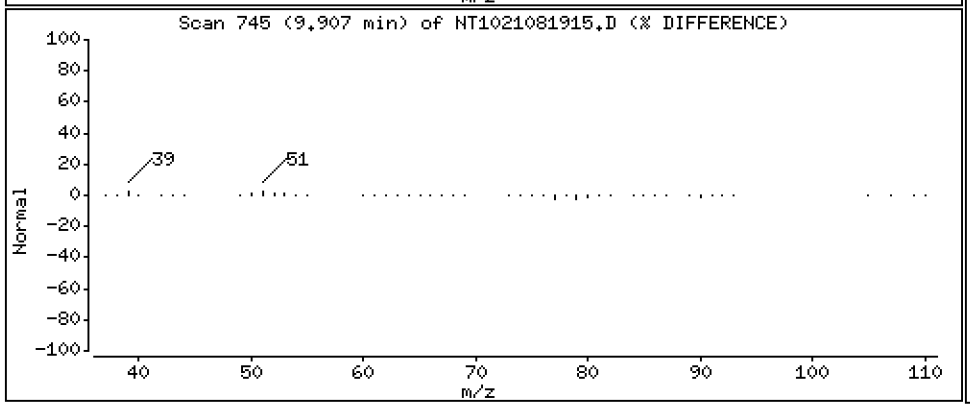
13 2-Methylphenol

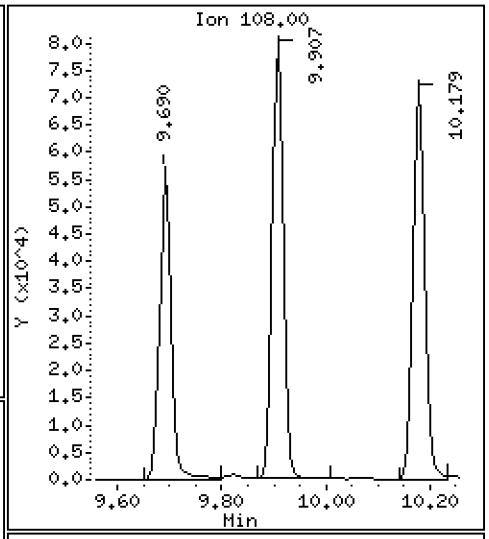
Concentration: 4.657 ug/mL

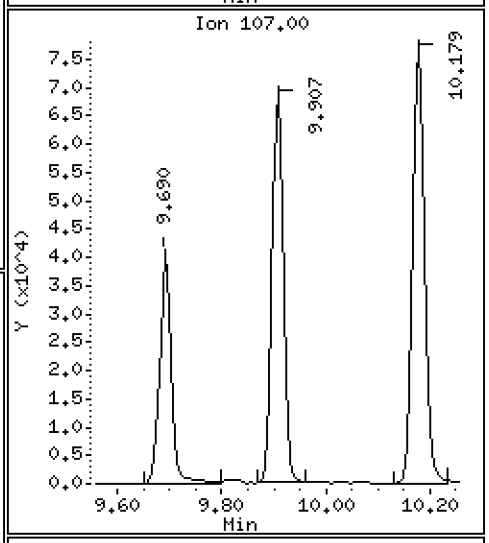


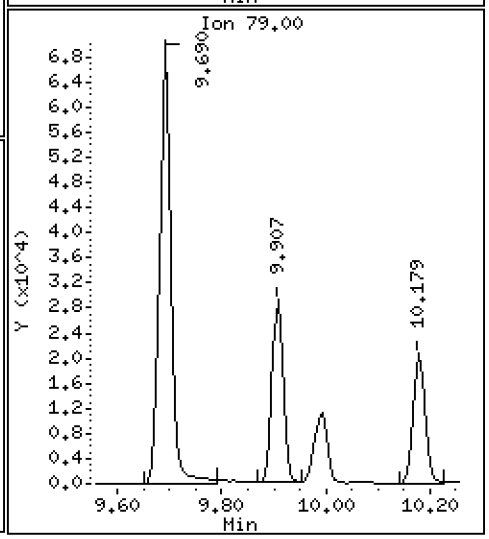












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

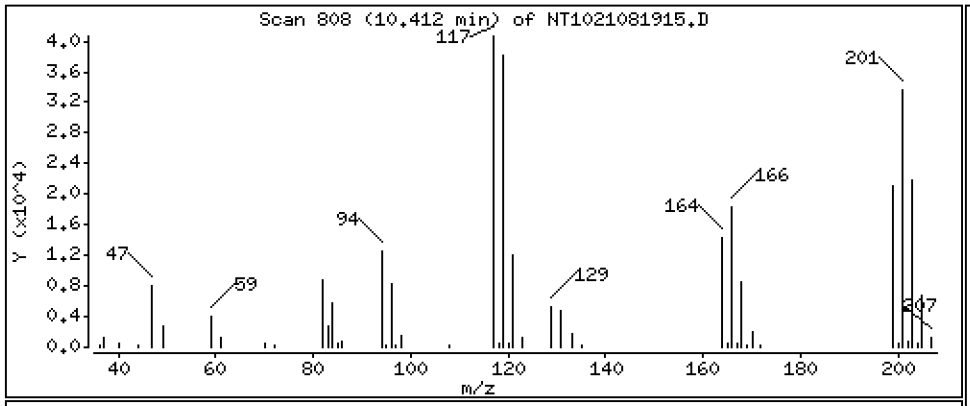
Operator: VTS

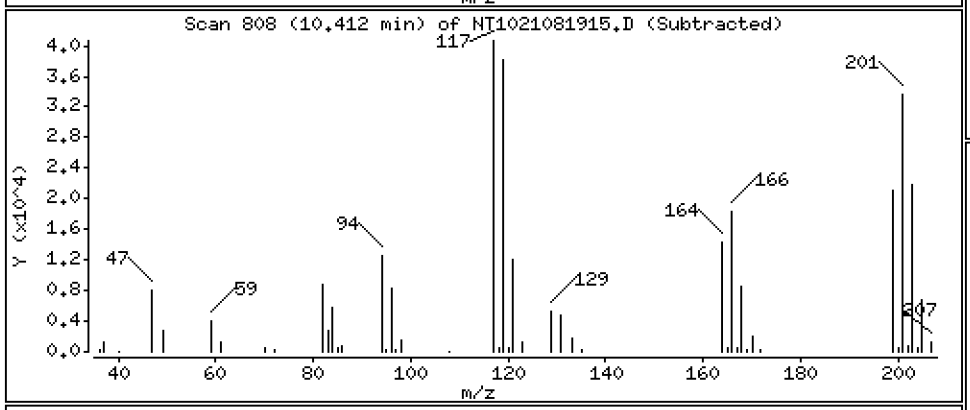
Column phase: ZB-5msi

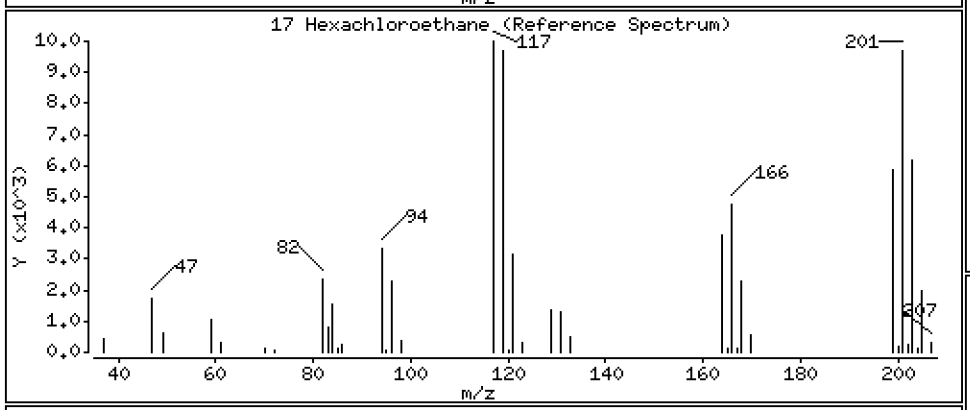
Column diameter: 0.25

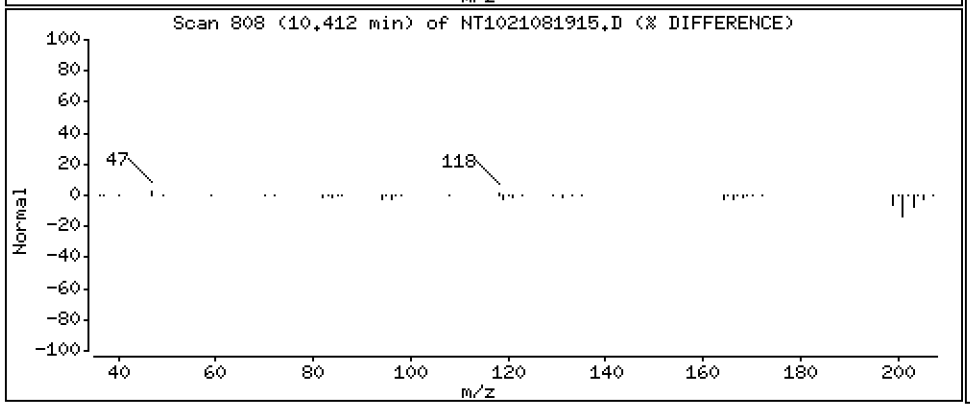
17 Hexachloroethane

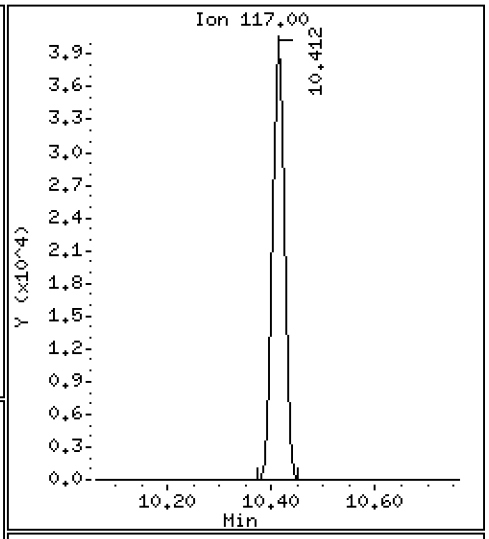
Concentration: 5.674 ug/mL

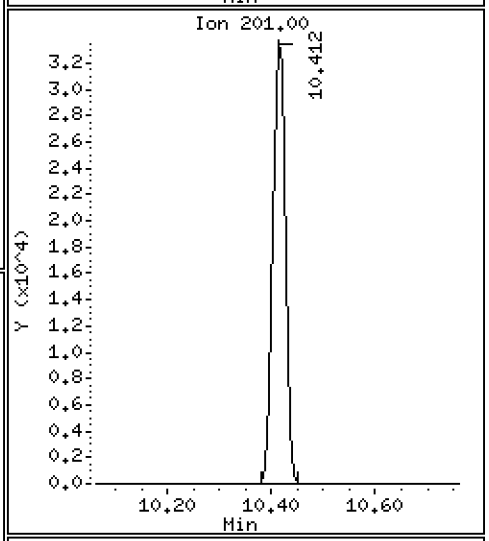


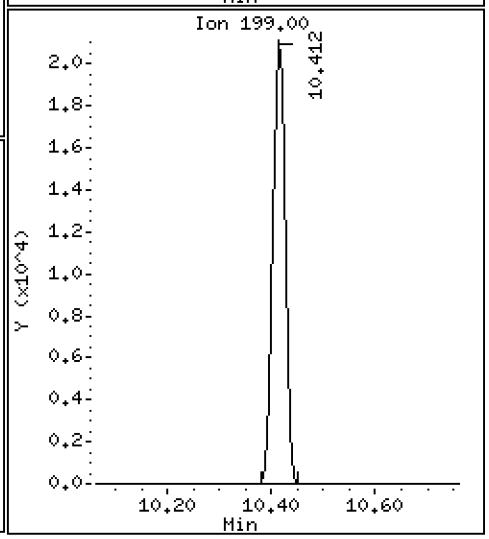












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

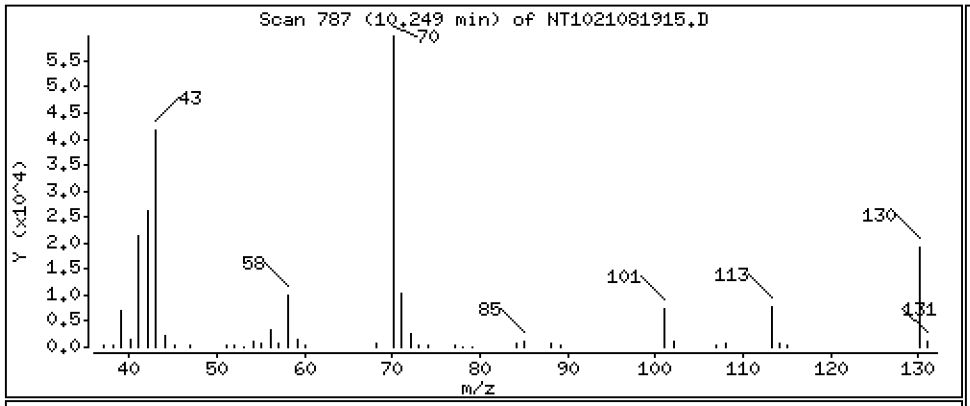
Operator: VTS

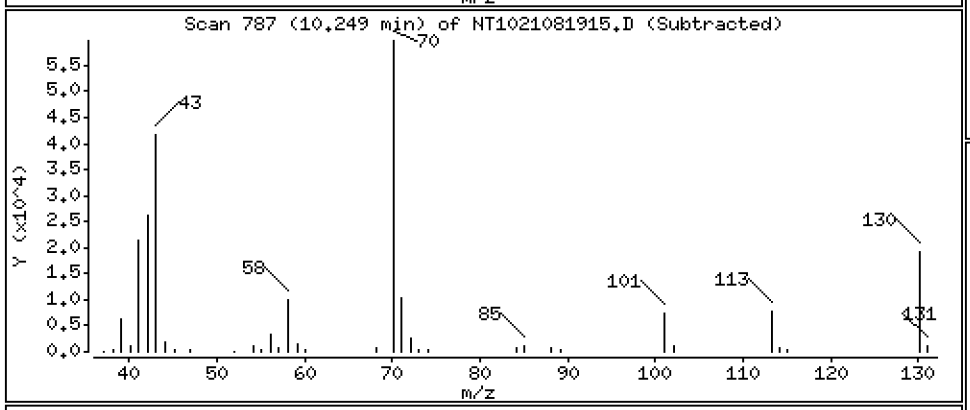
Column phase: ZB-5msi

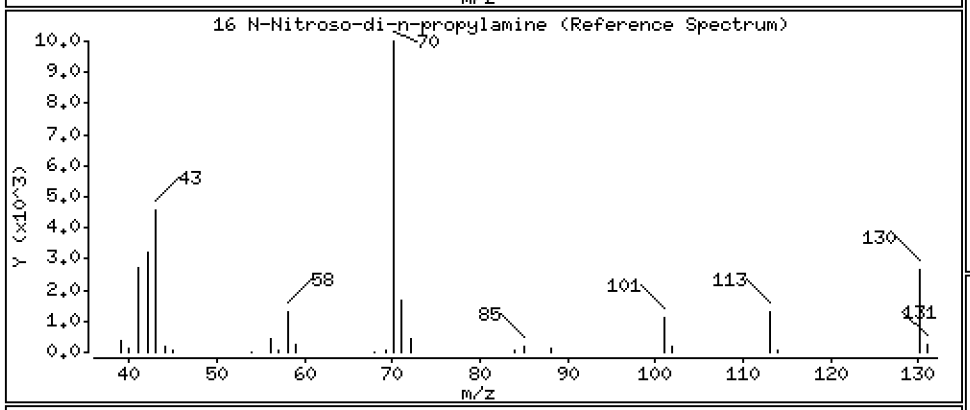
Column diameter: 0.25

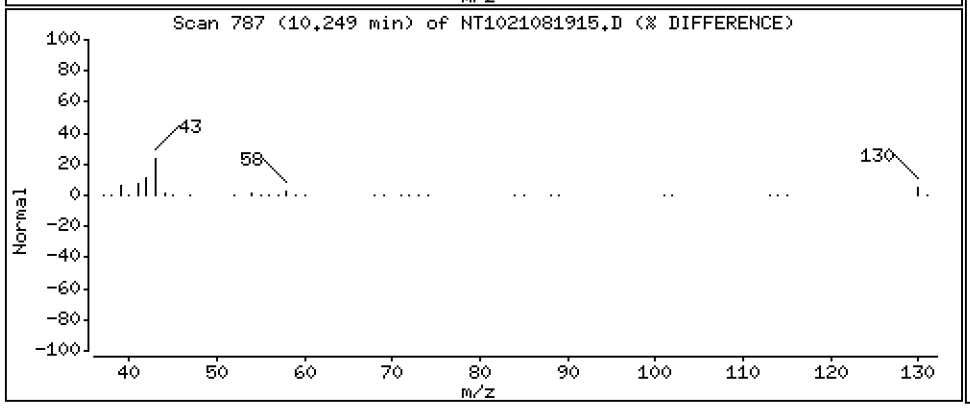
16 N-Nitroso-di-n-propylamine

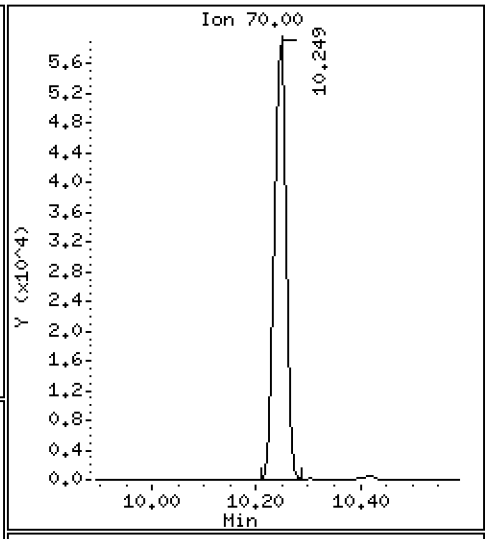
Concentration: 5.292 ug/mL

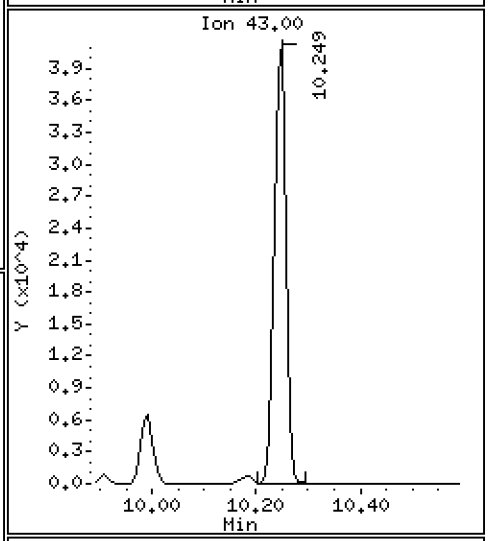


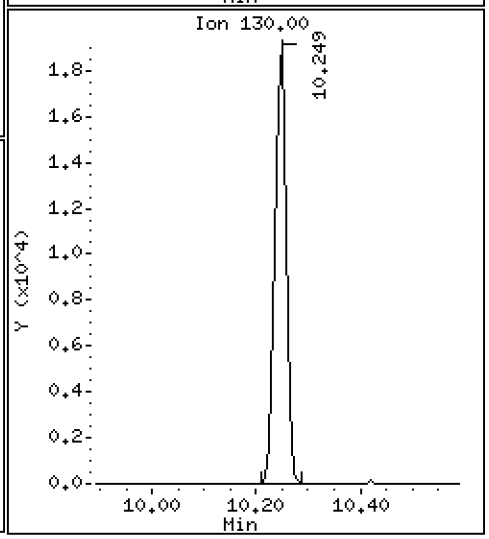












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

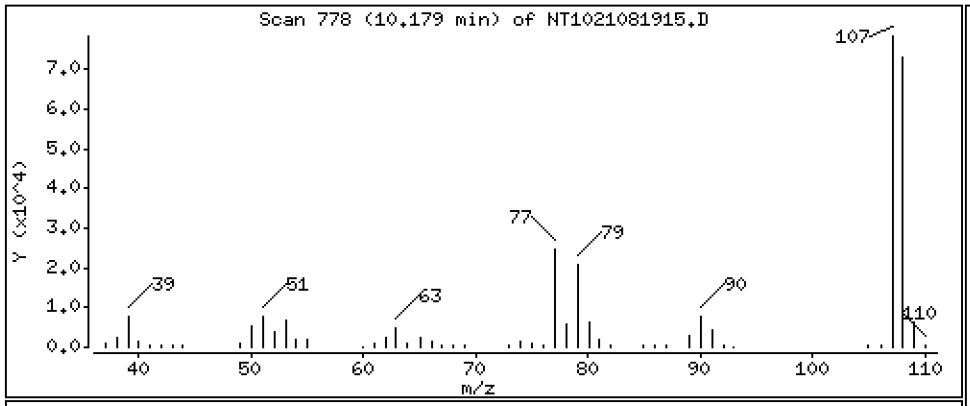
Operator: VTS

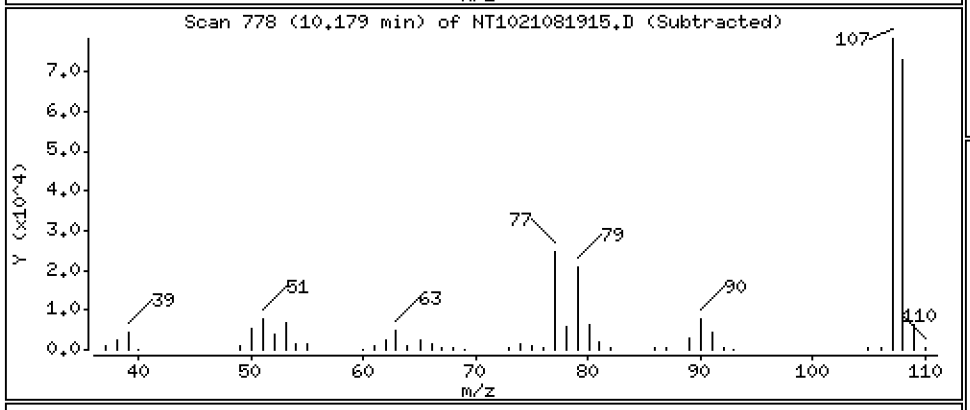
Column phase: ZB-5msi

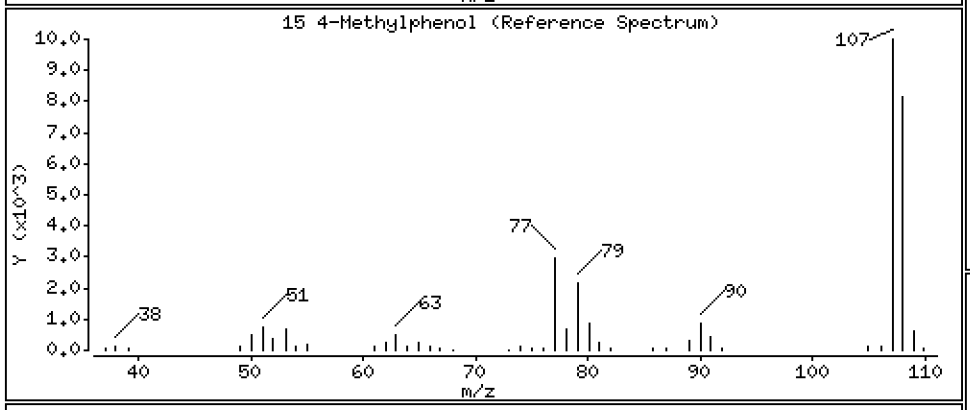
Column diameter: 0.25

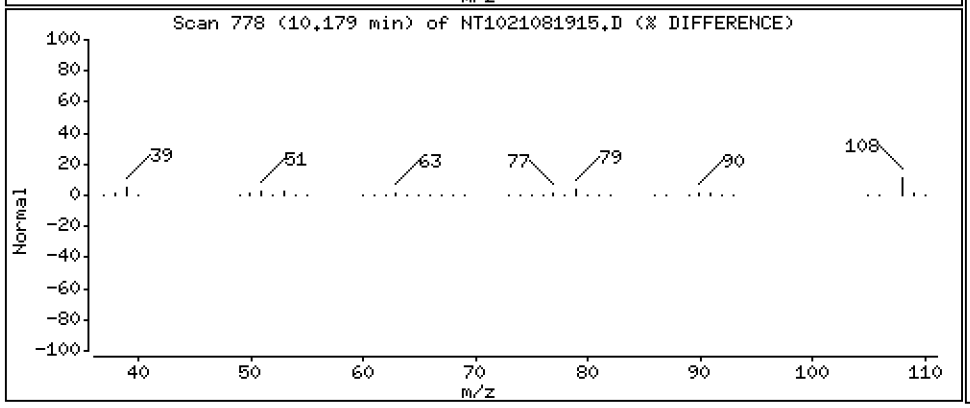
15 4-Methylphenol

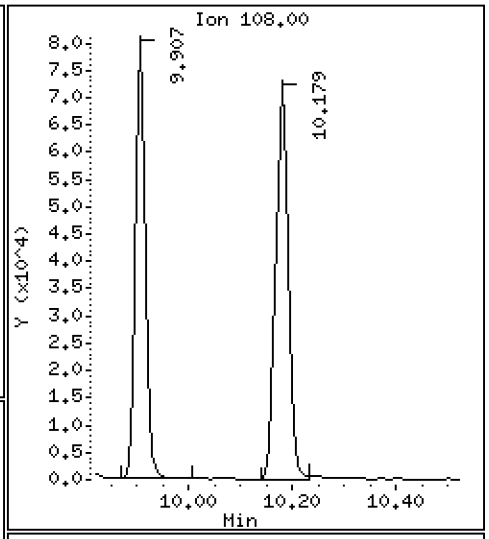
Concentration: 4.688 ug/mL

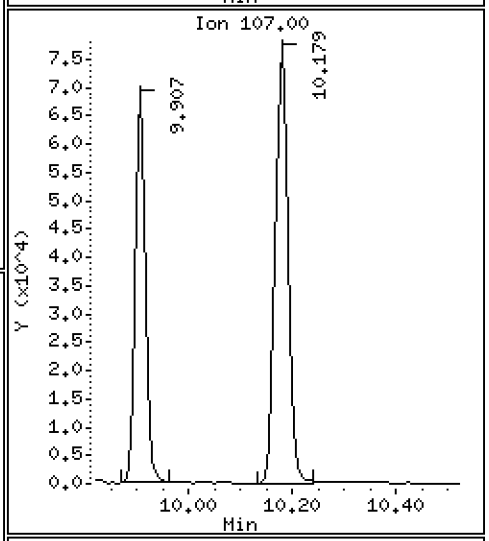


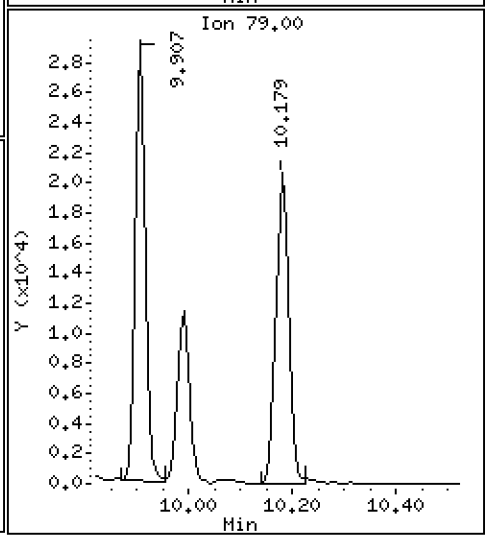












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

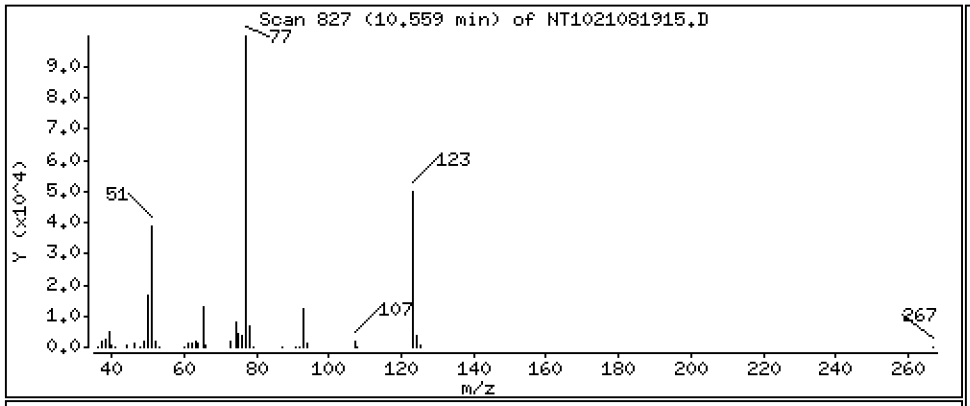
Operator: VTS

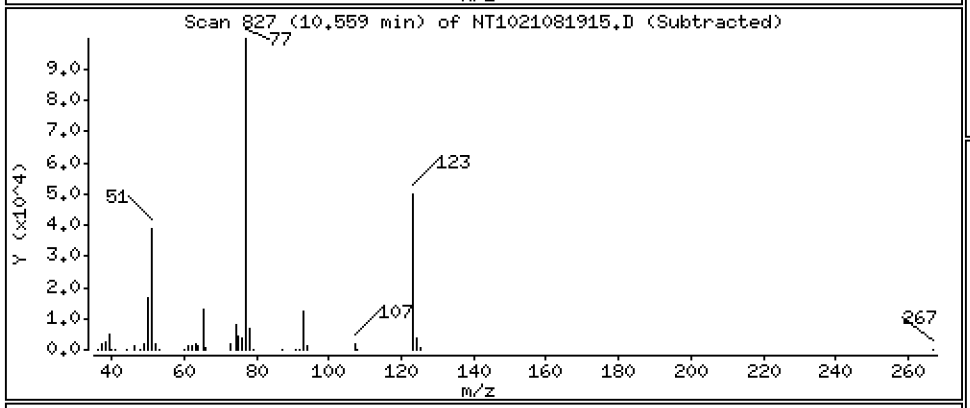
Column phase: ZB-5msi

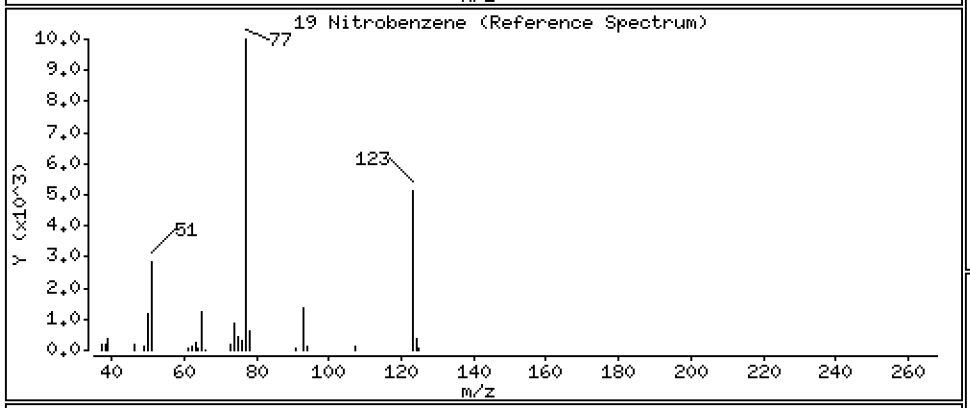
Column diameter: 0.25

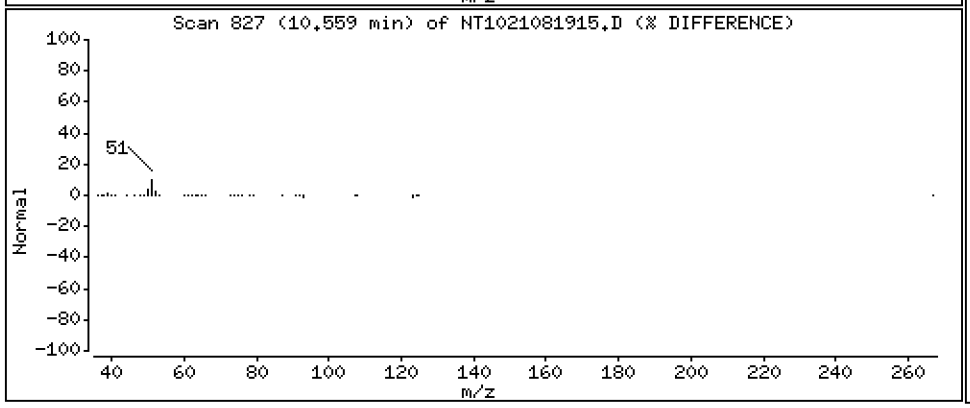
19 Nitrobenzene

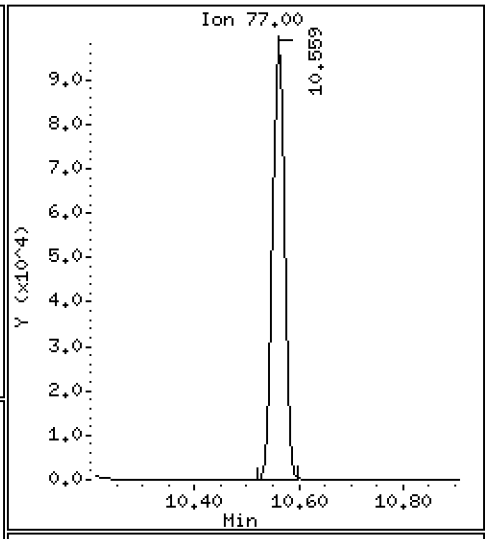
Concentration: 5.403 ug/mL

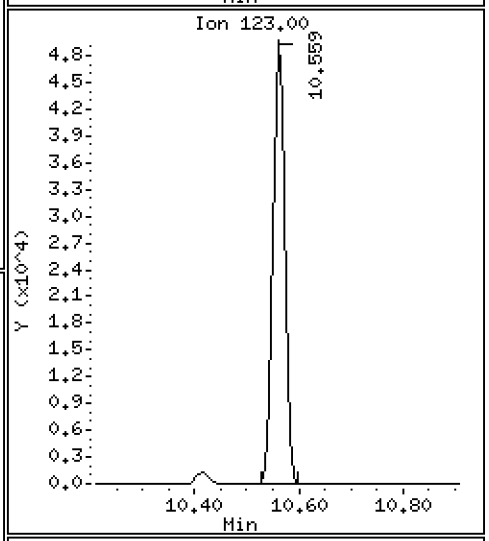


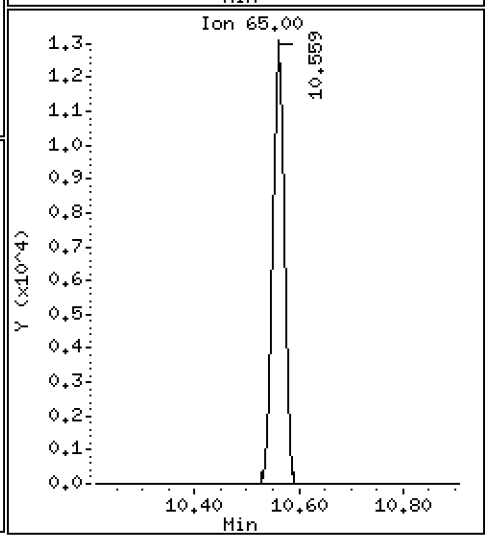












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

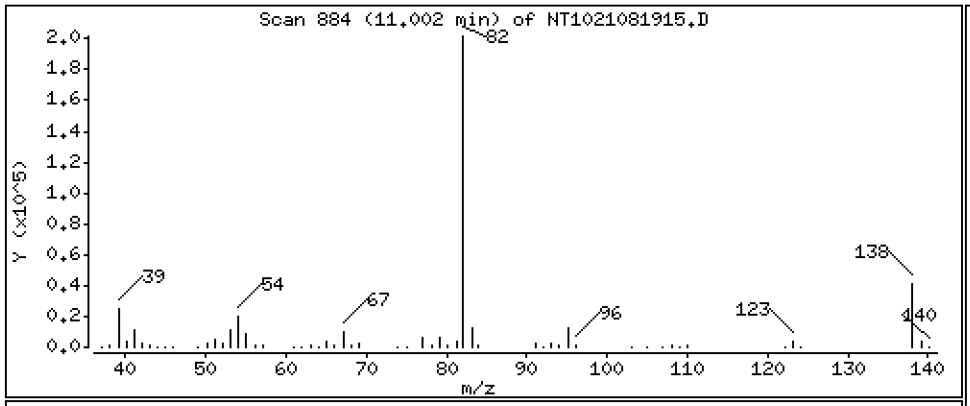
Operator: VTS

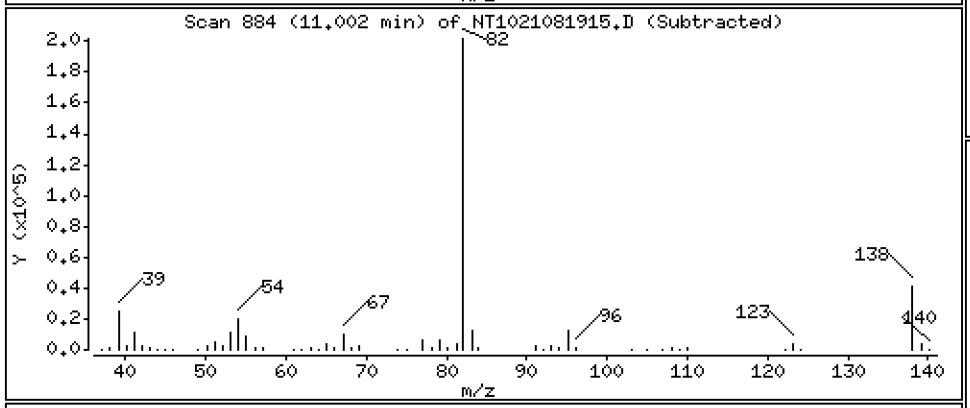
Column phase: ZB-5msi

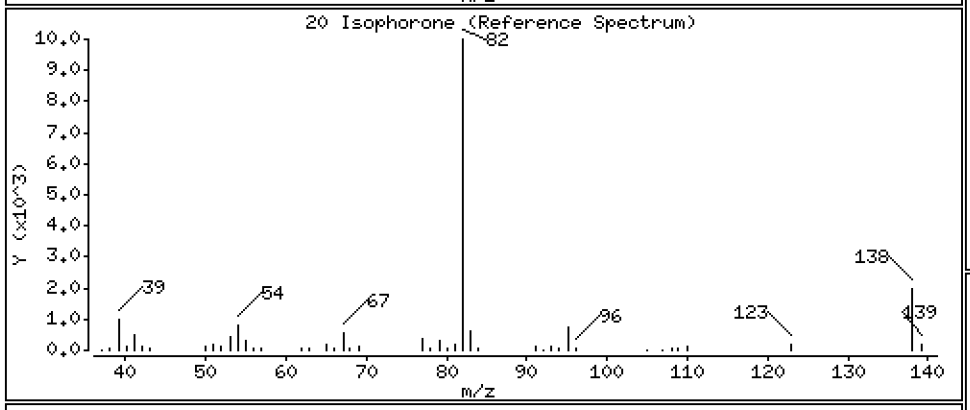
Column diameter: 0.25

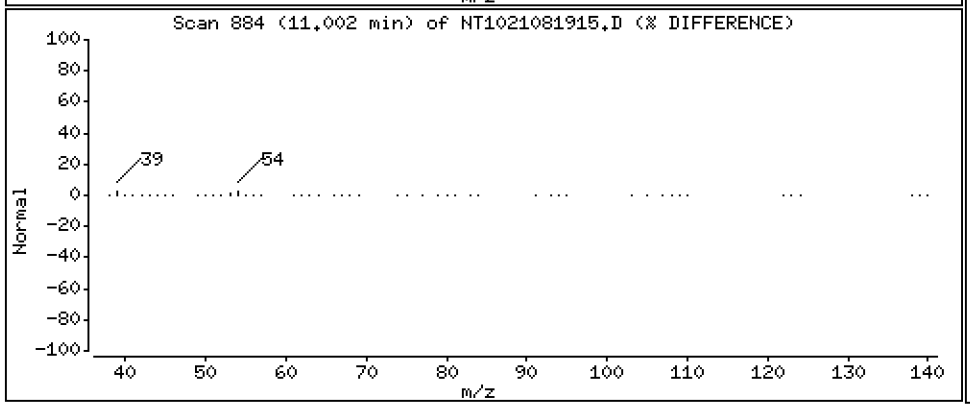
20 Isophorone

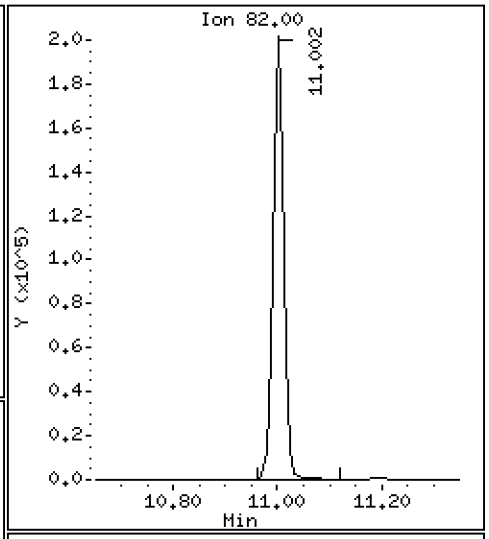
Concentration: 7.778 ug/mL

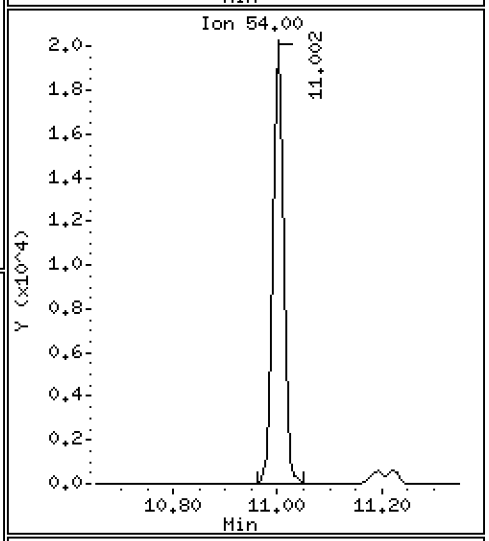


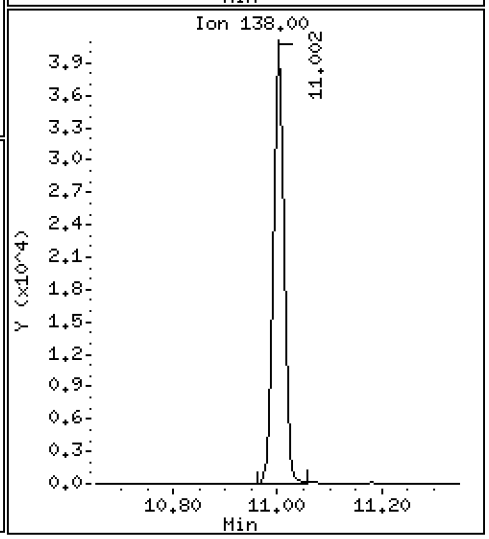












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

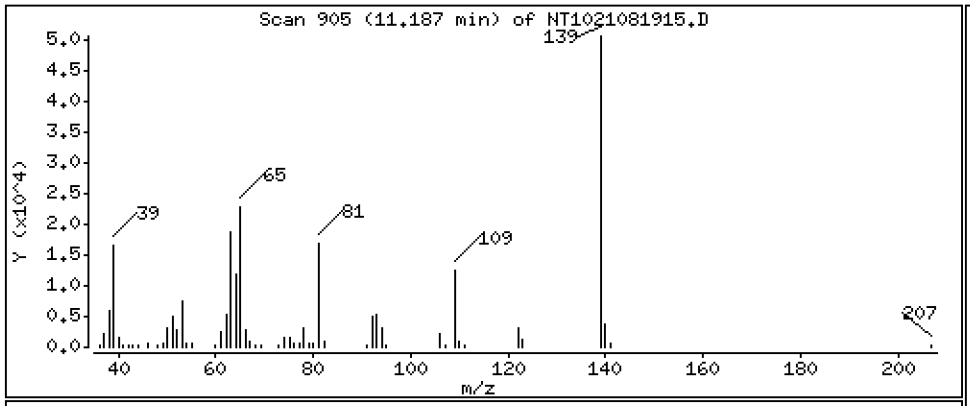
Operator: VTS

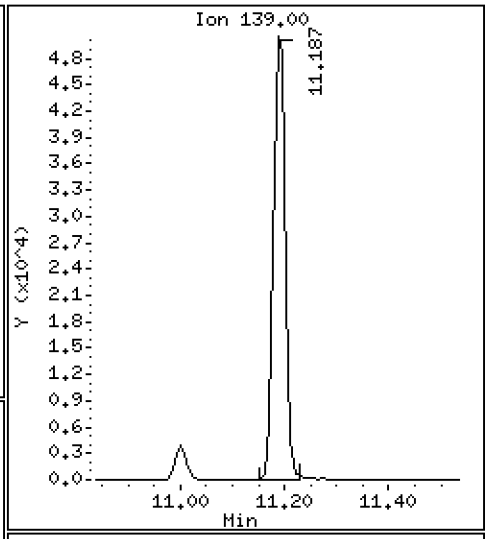
Column phase: ZB-5msi

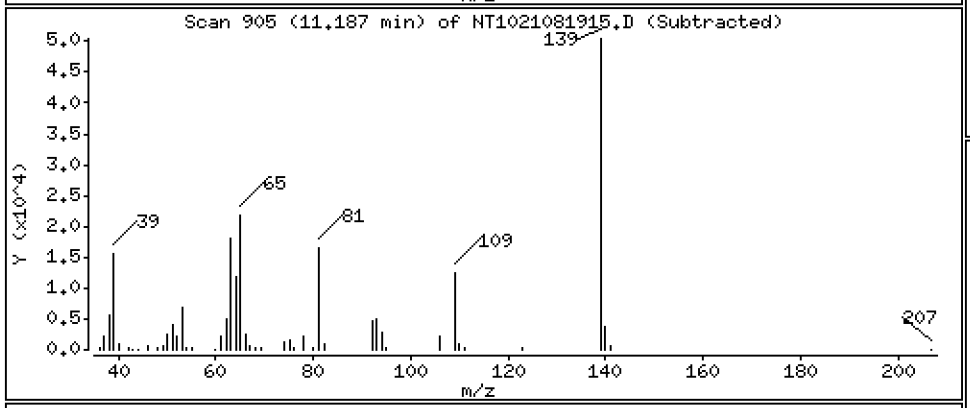
Column diameter: 0.25

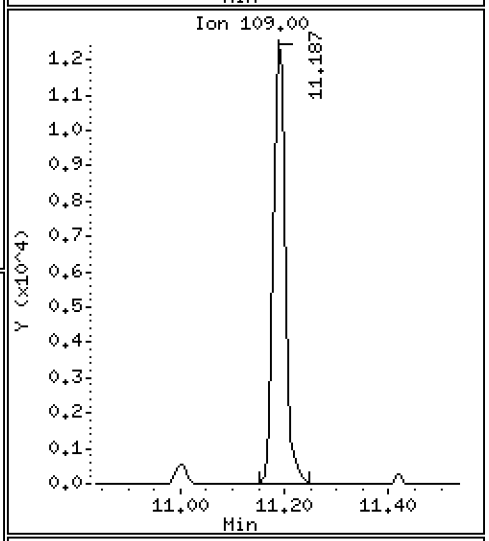
21 2-Nitrophenol

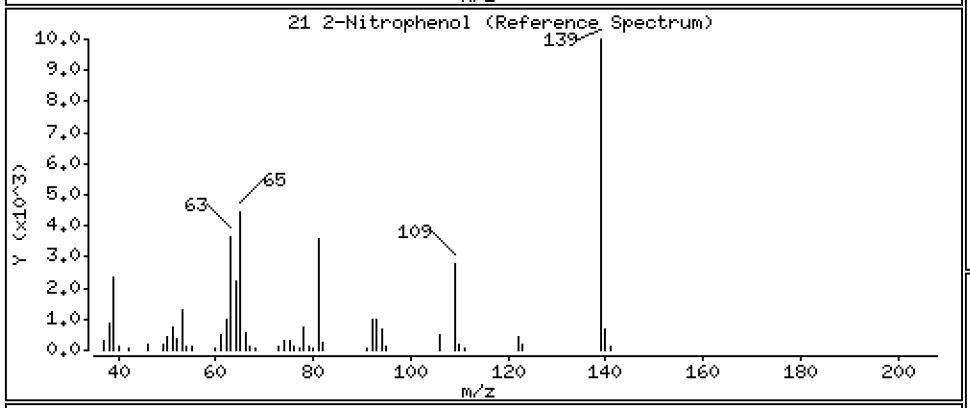
Concentration: 5.178 ug/mL

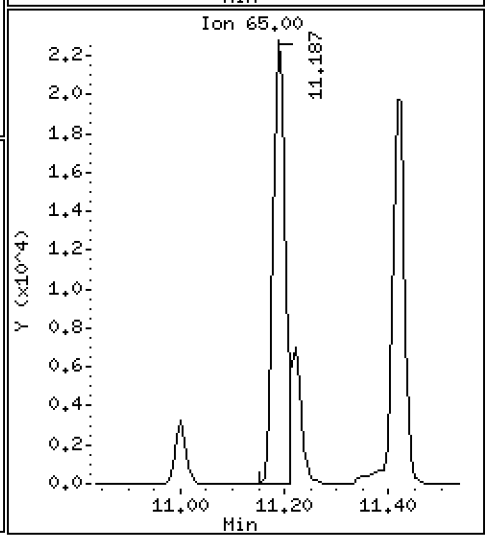


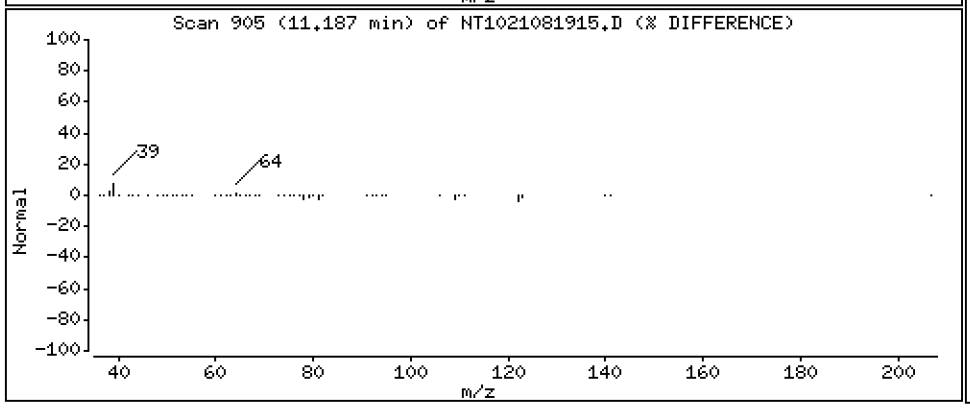












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

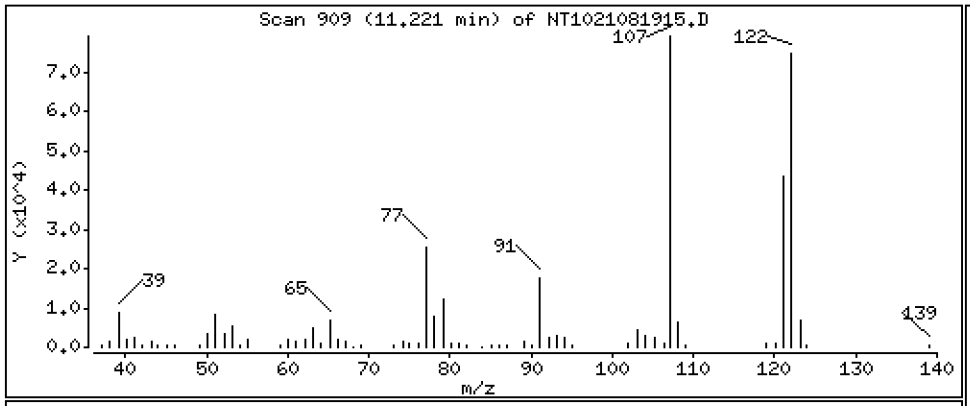
Operator: VTS

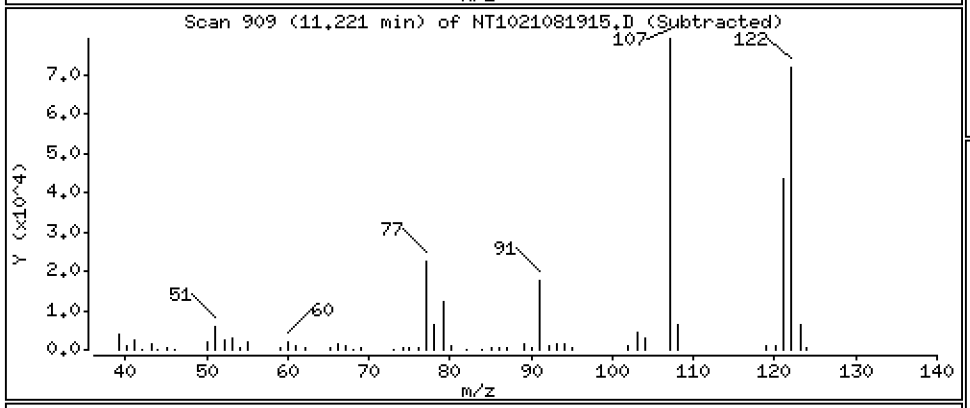
Column phase: ZB-5msi

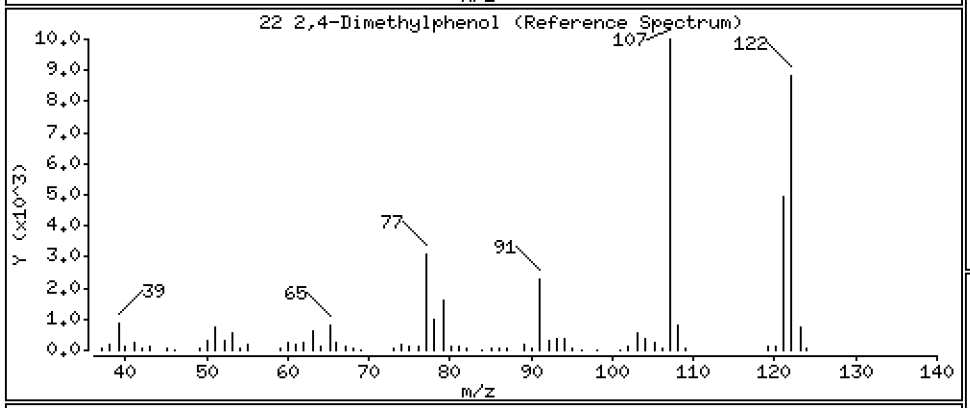
Column diameter: 0.25

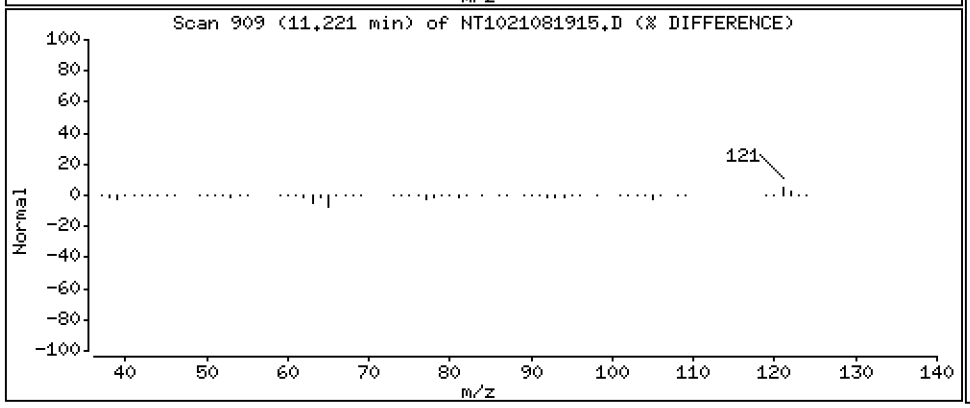
22 2,4-Dimethylphenol

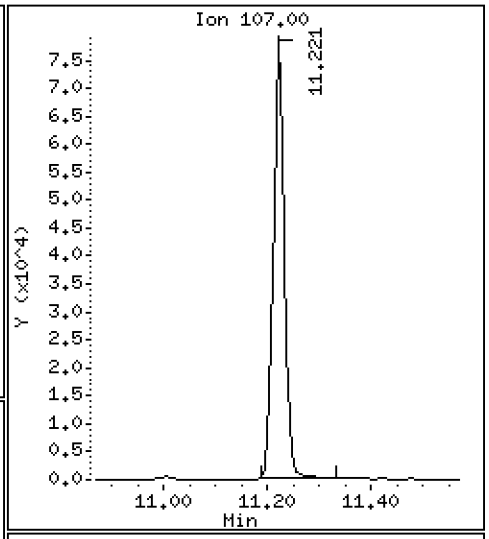
Concentration: 4.920 ug/mL

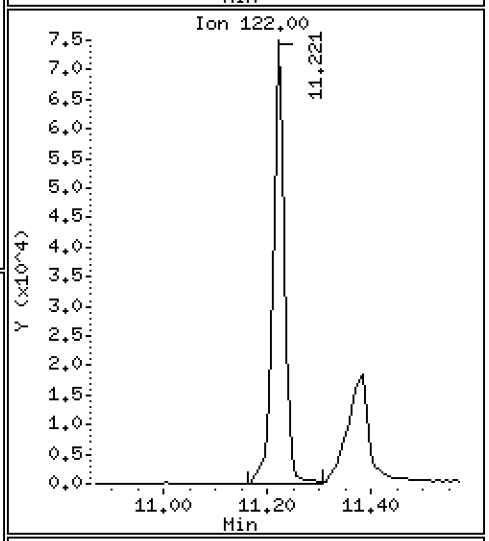


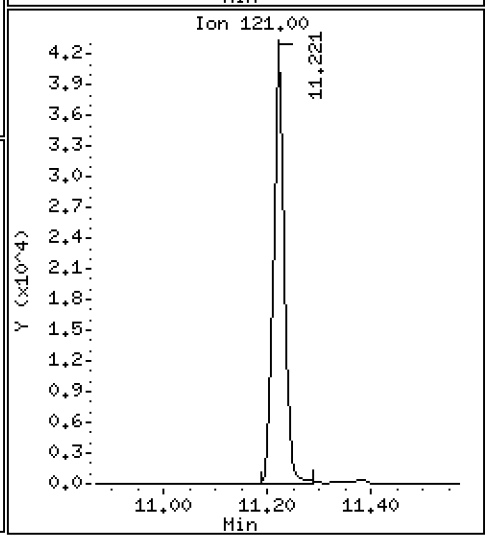












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

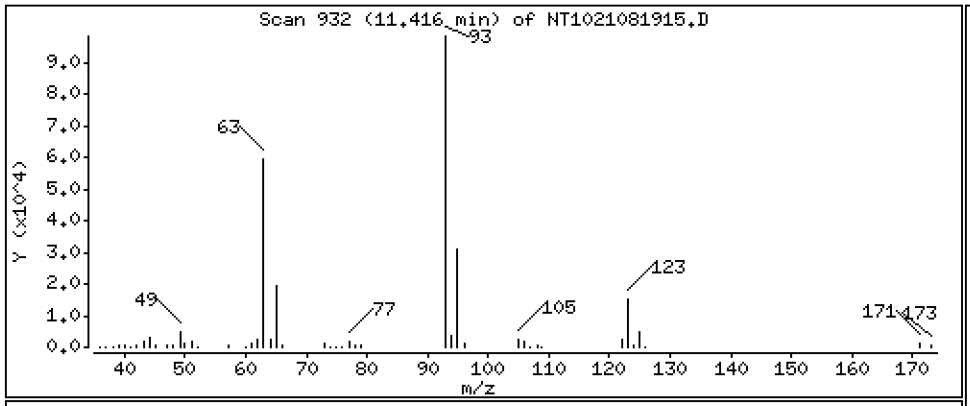
Operator: VTS

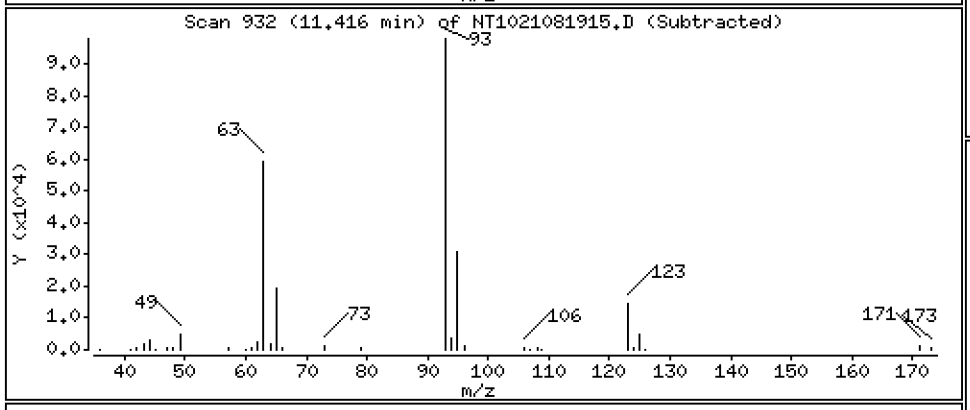
Column phase: ZB-5msi

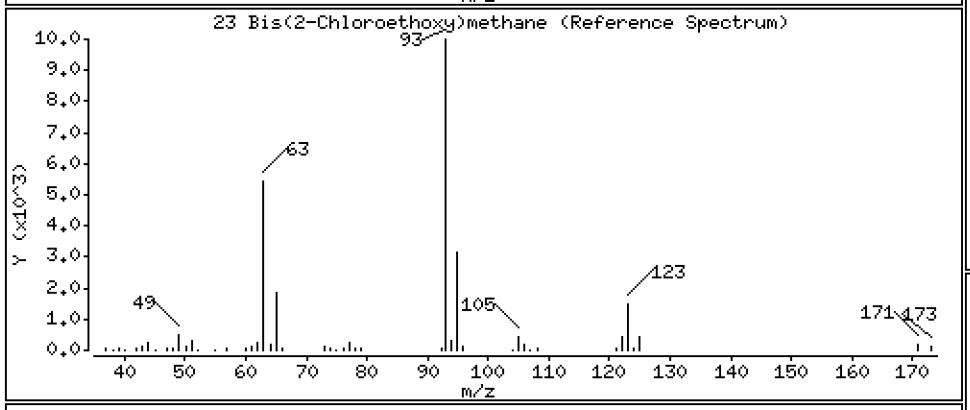
Column diameter: 0.25

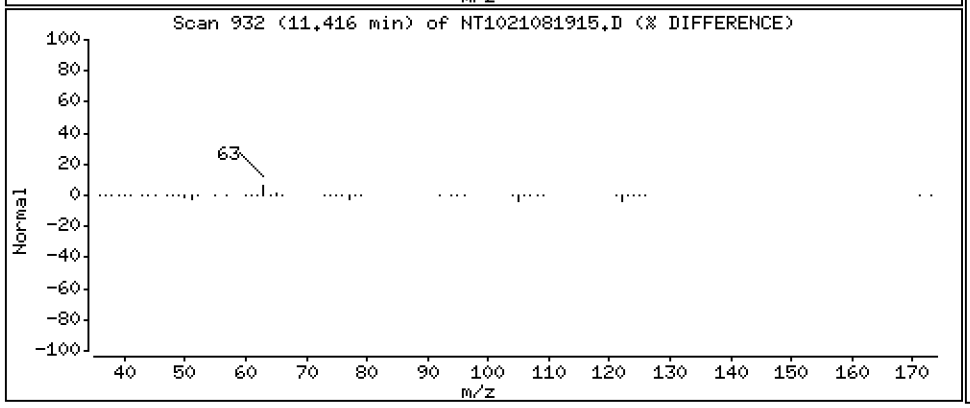
23 Bis(2-Chloroethoxy)methane

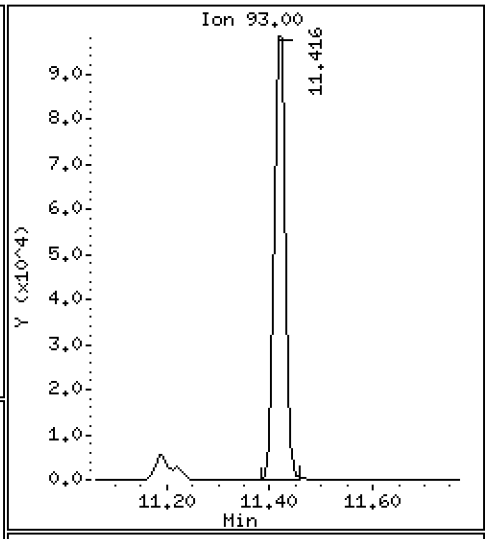
Concentration: 5.938 ug/mL

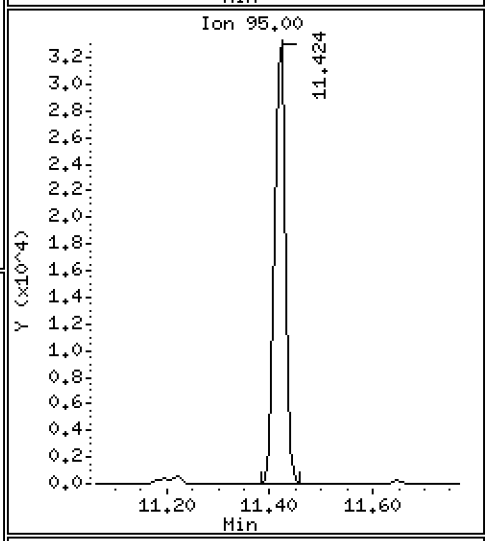


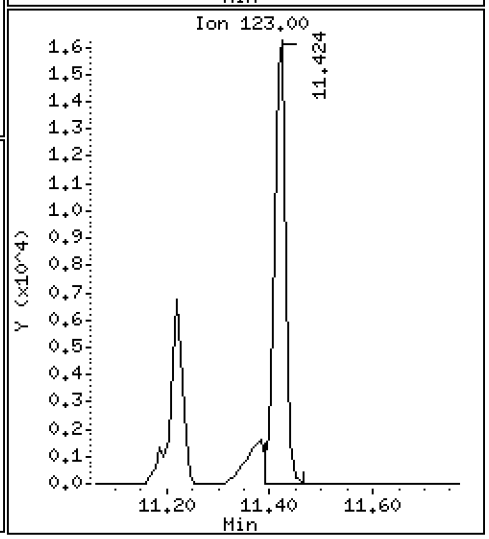












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

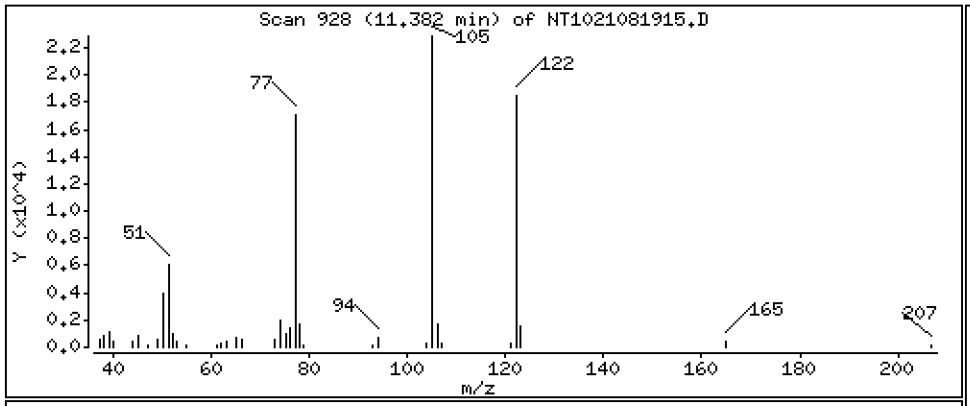
Operator: VTS

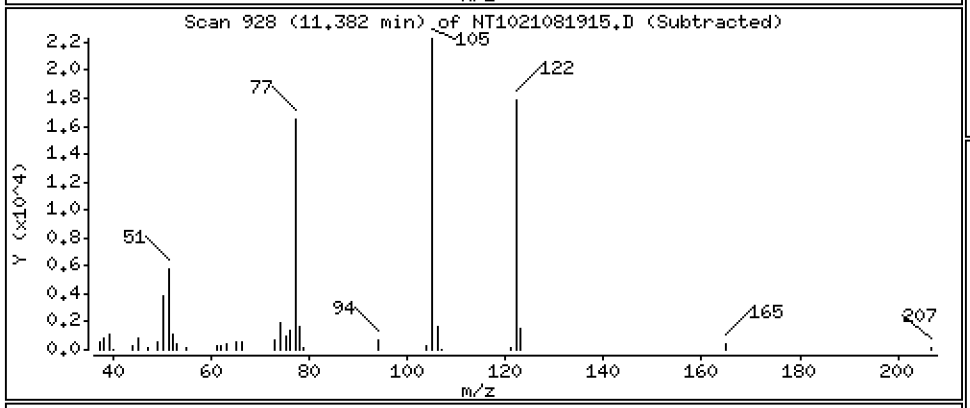
Column phase: ZB-5msi

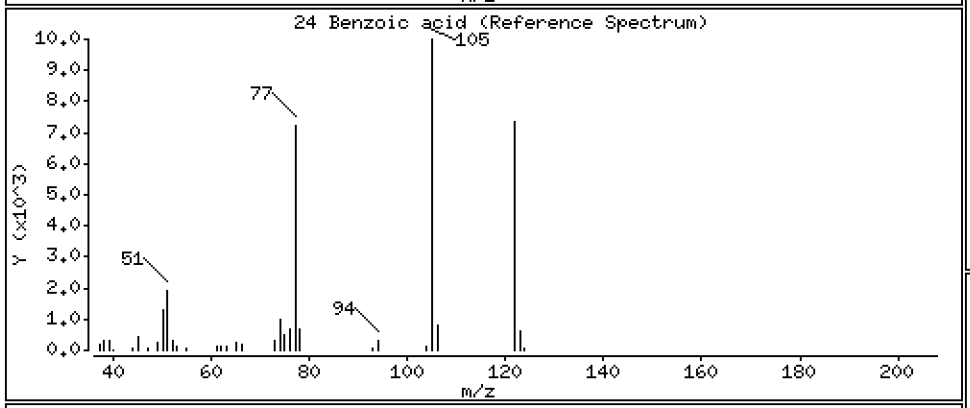
Column diameter: 0.25

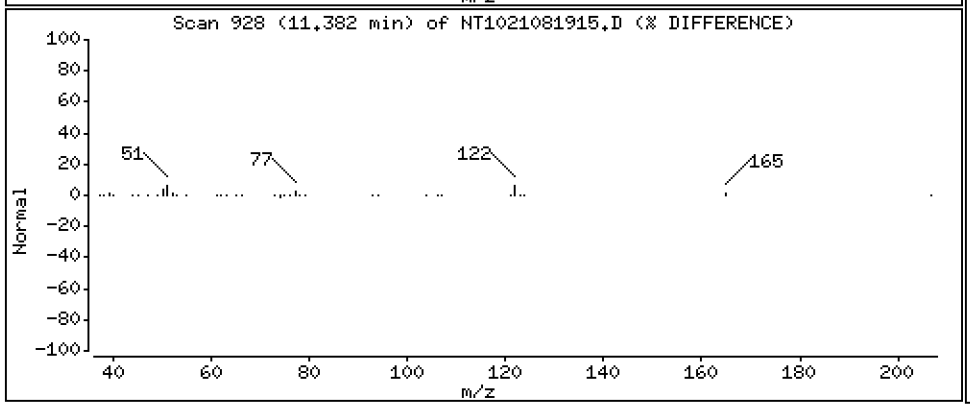
24 Benzoic acid

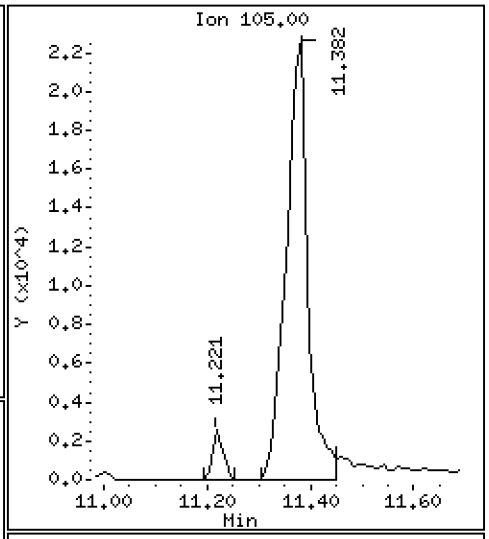
Concentration: 5.378 ug/mL

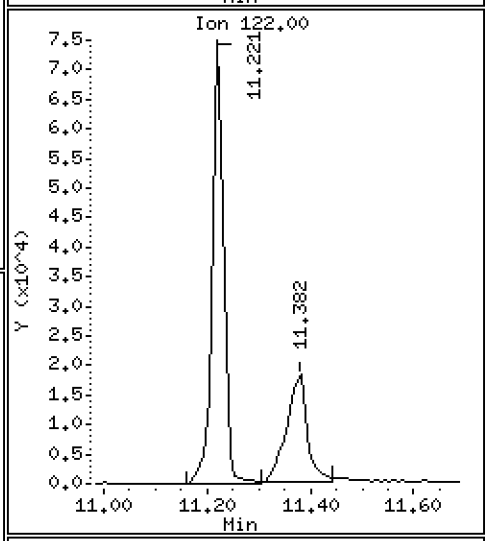


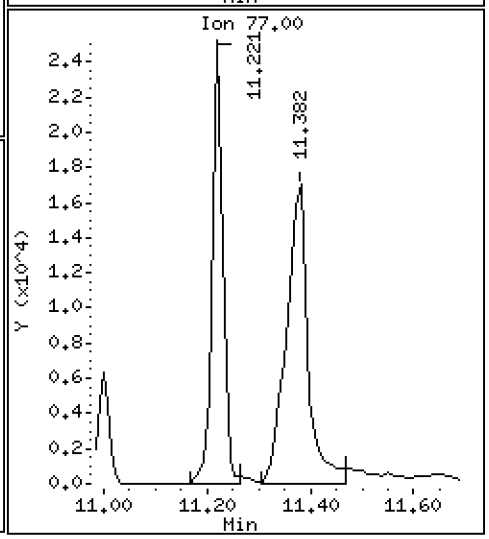












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

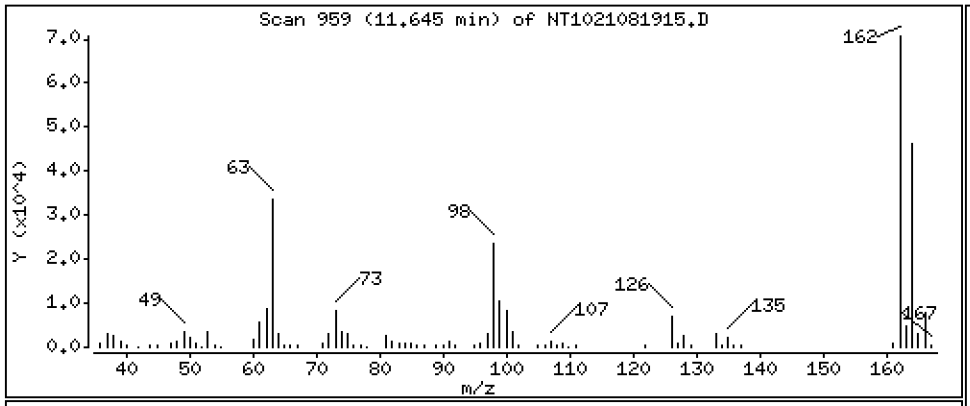
Operator: VTS

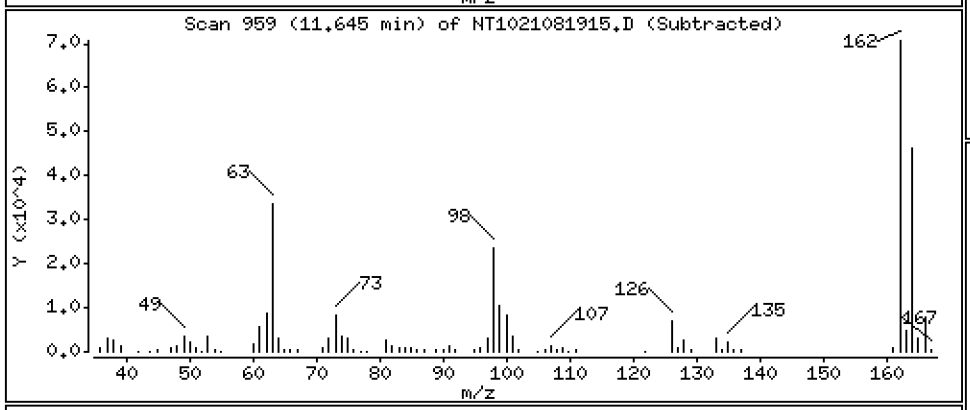
Column phase: ZB-5msi

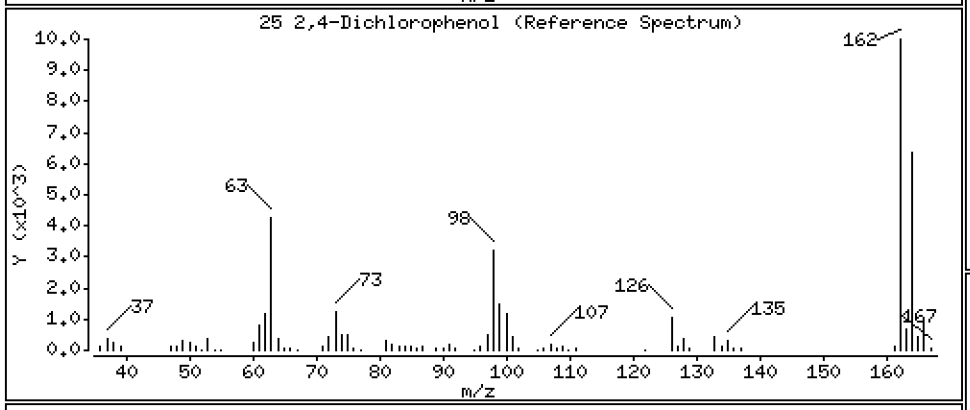
Column diameter: 0.25

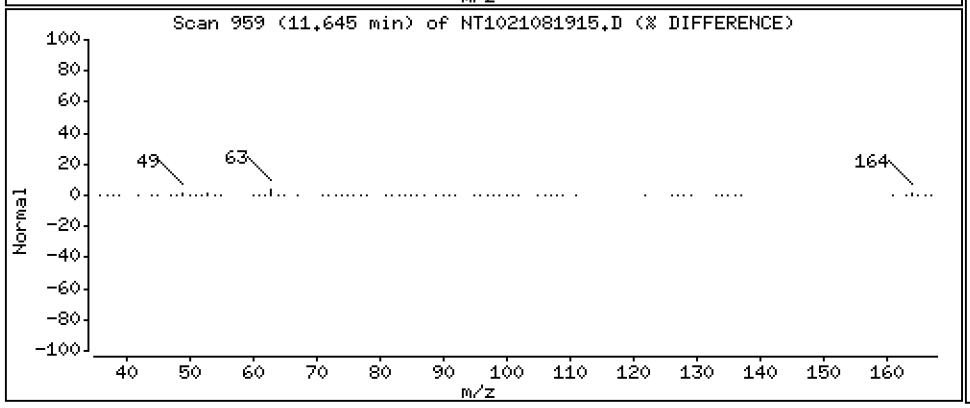
25 2,4-Dichlorophenol

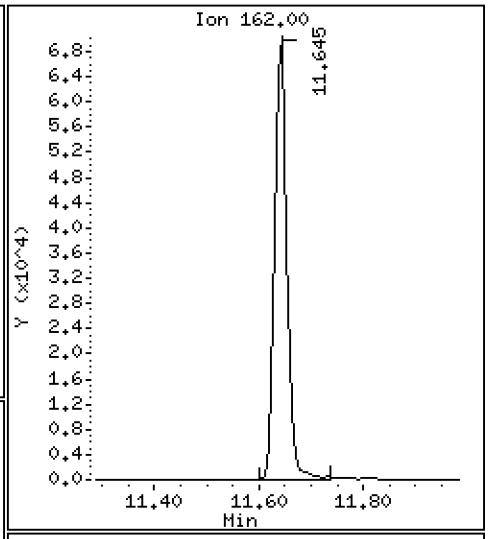
Concentration: 5.147 ug/mL

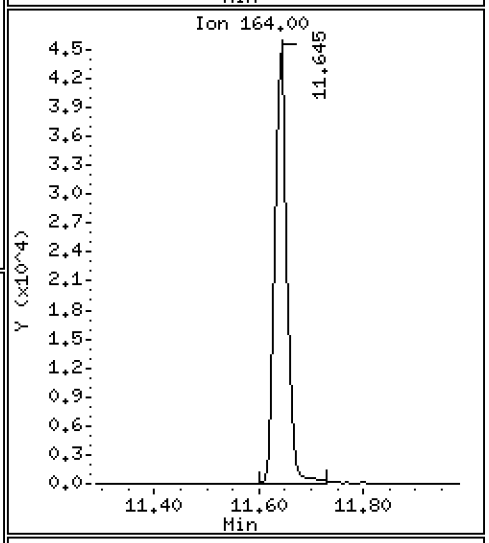


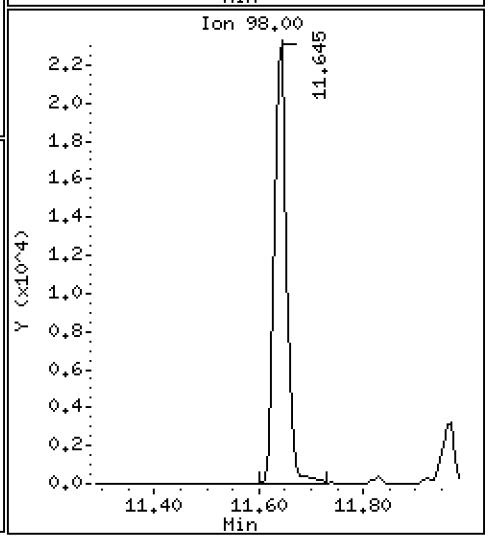












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

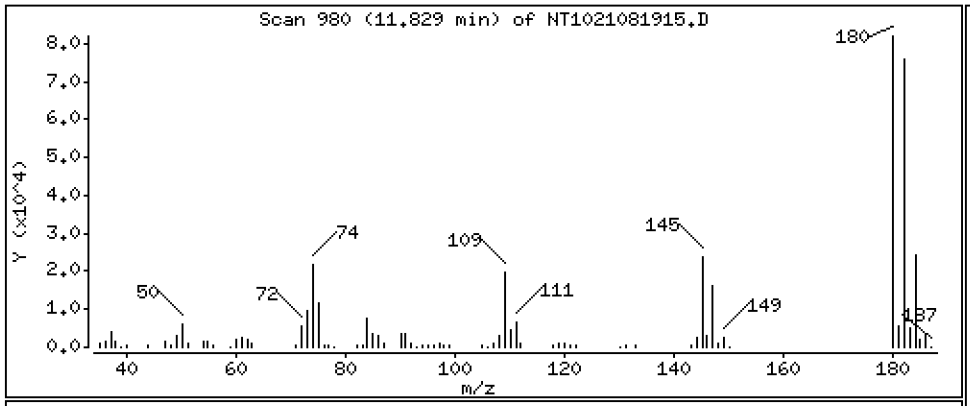
Operator: VTS

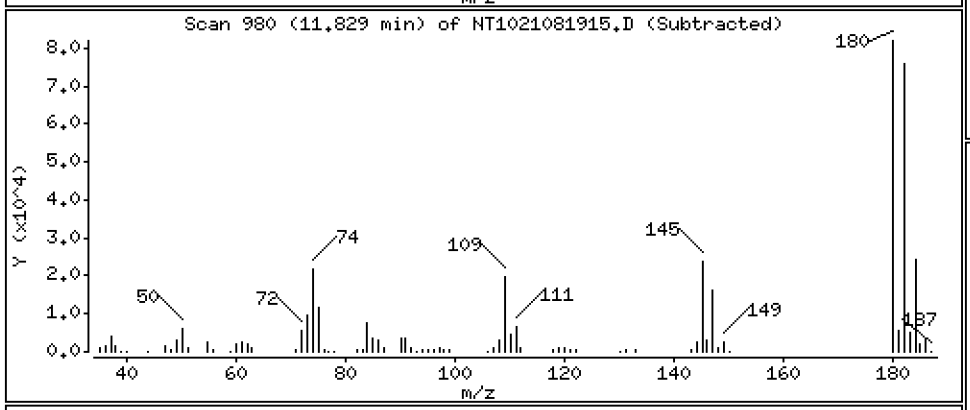
Column phase: ZB-5msi

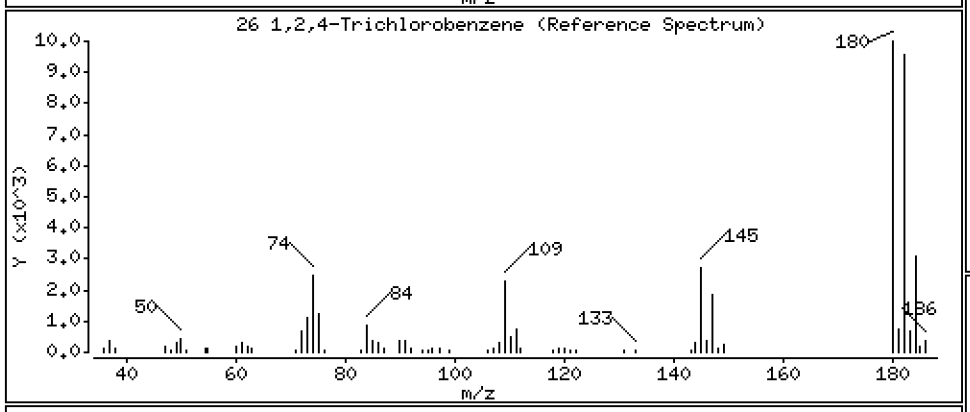
Column diameter: 0.25

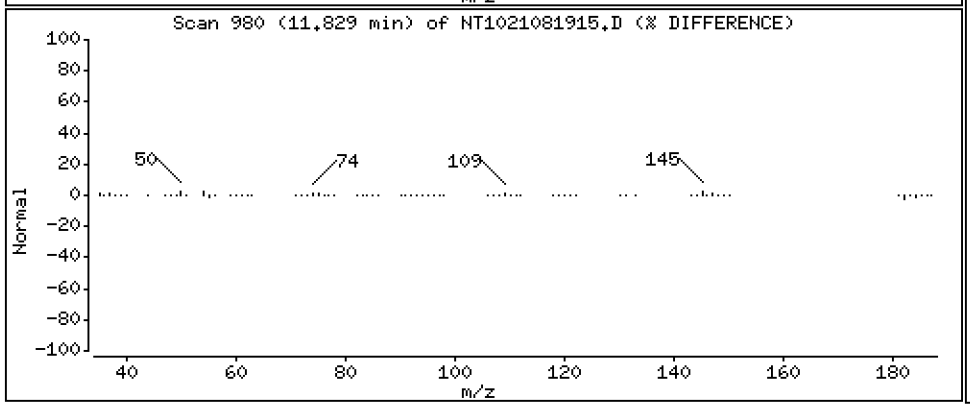
26 1,2,4-Trichlorobenzene

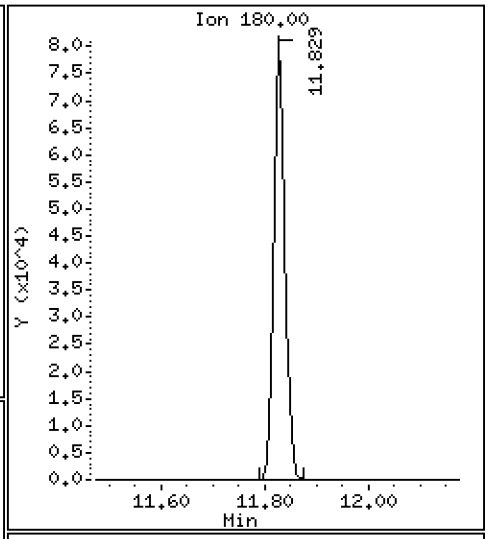
Concentration: 5.000 ug/mL

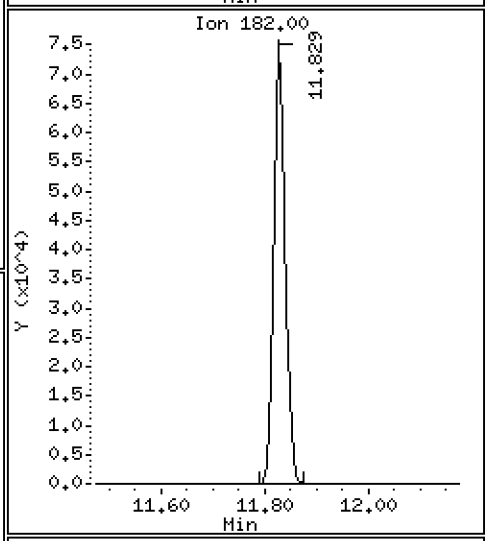


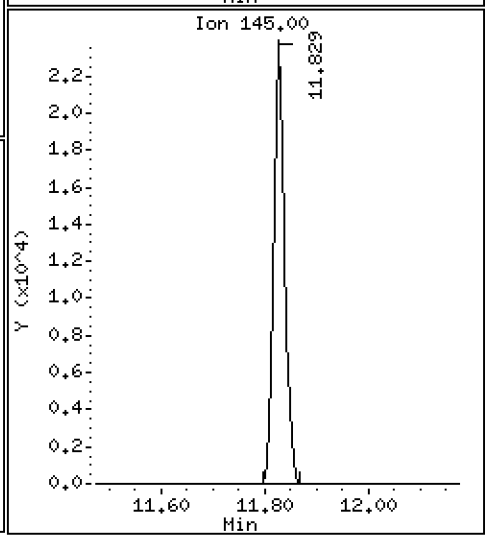












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

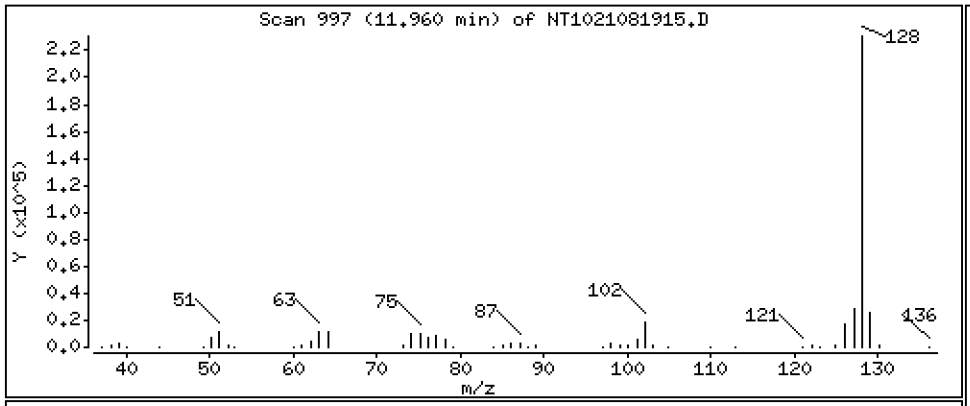
Operator: VTS

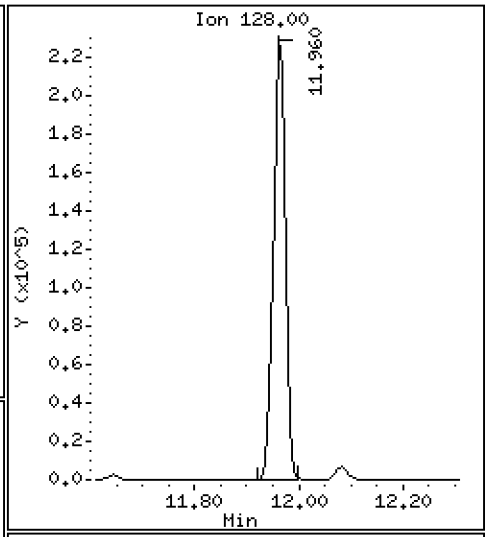
Column phase: ZB-5msi

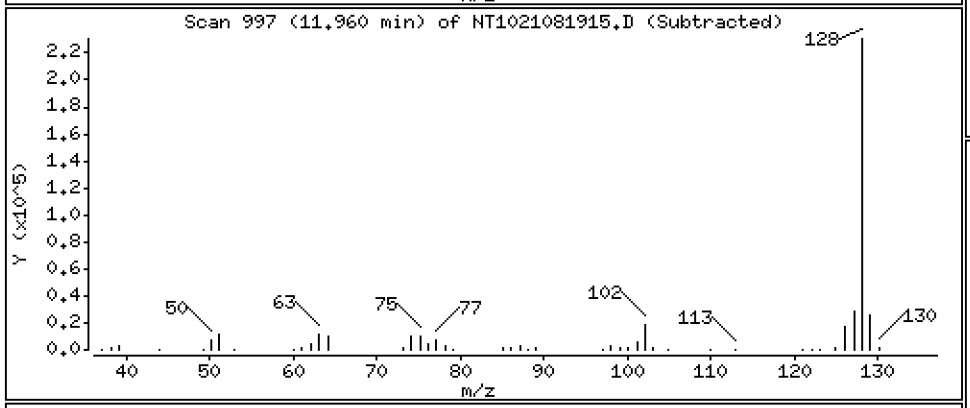
Column diameter: 0.25

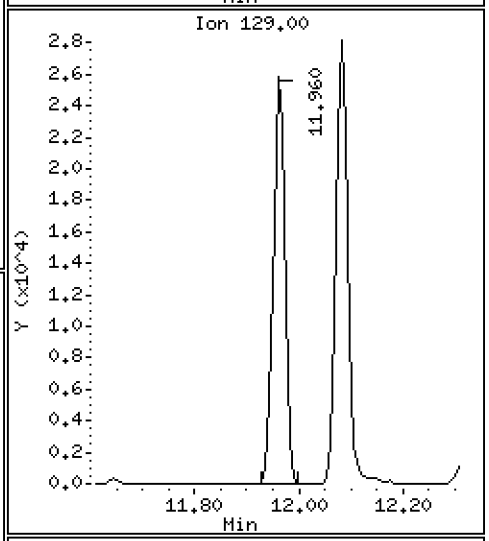
28 Naphthalene

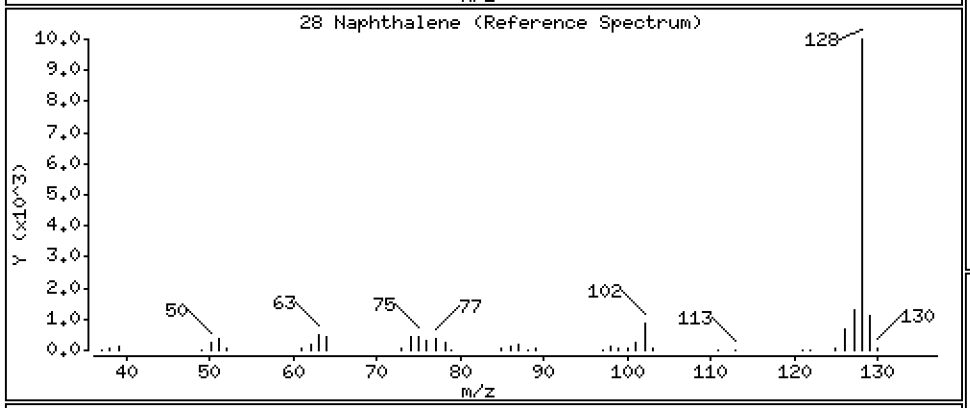
Concentration: 5.100 ug/mL

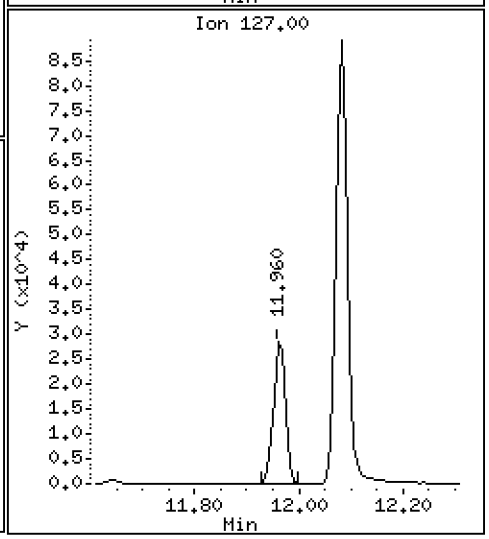


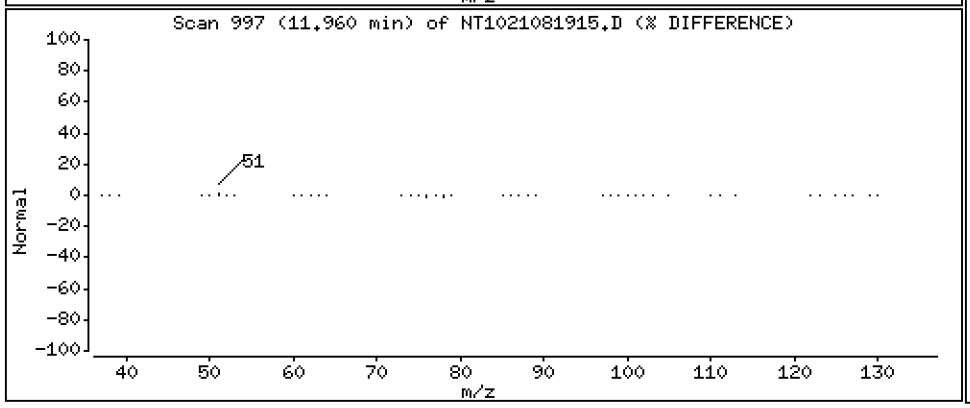












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

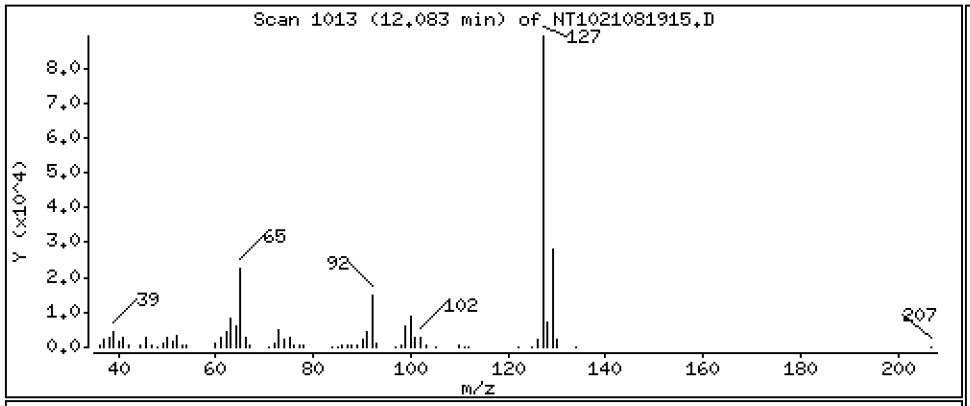
Operator: VTS

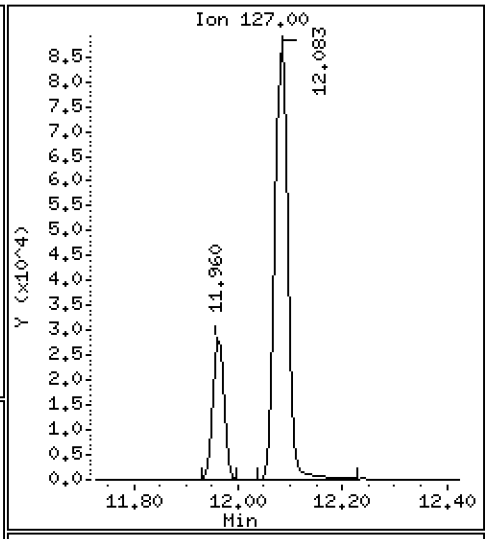
Column phase: ZB-5msi

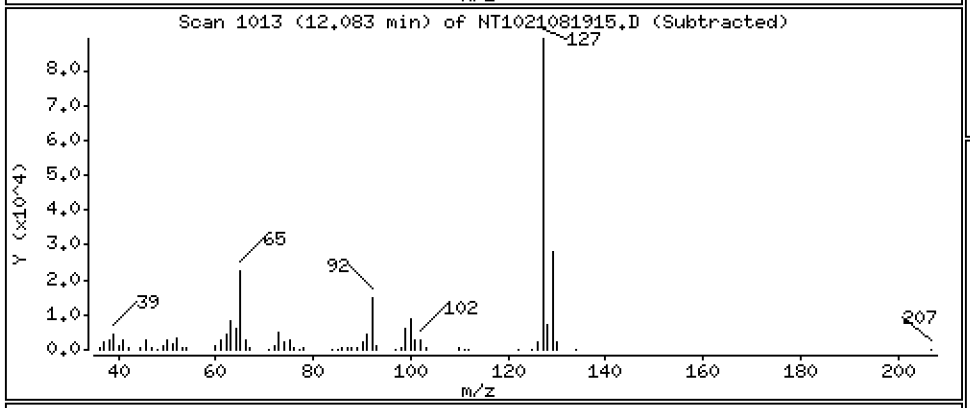
Column diameter: 0.25

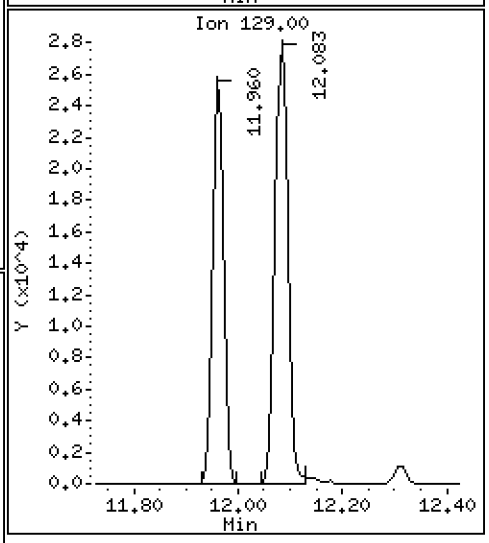
29 4-Chloroaniline

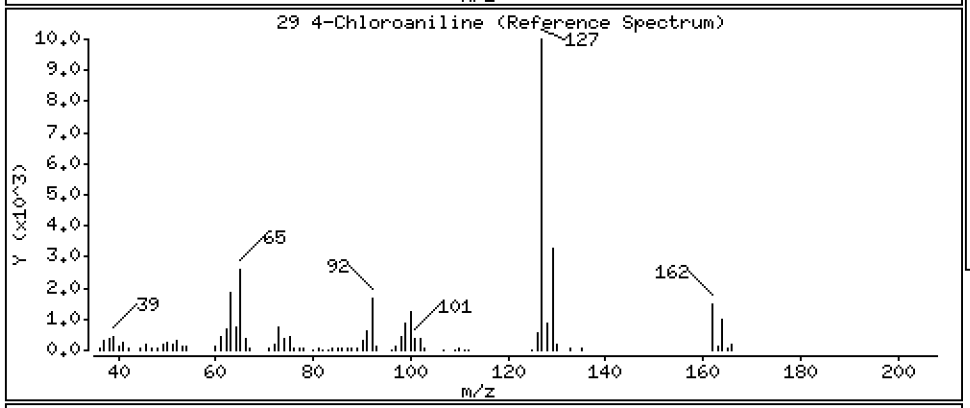
Concentration: 4.593 ug/mL

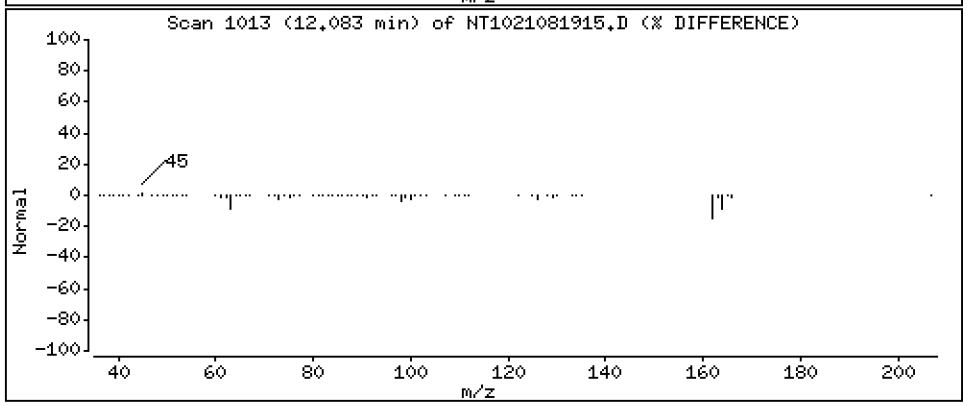












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

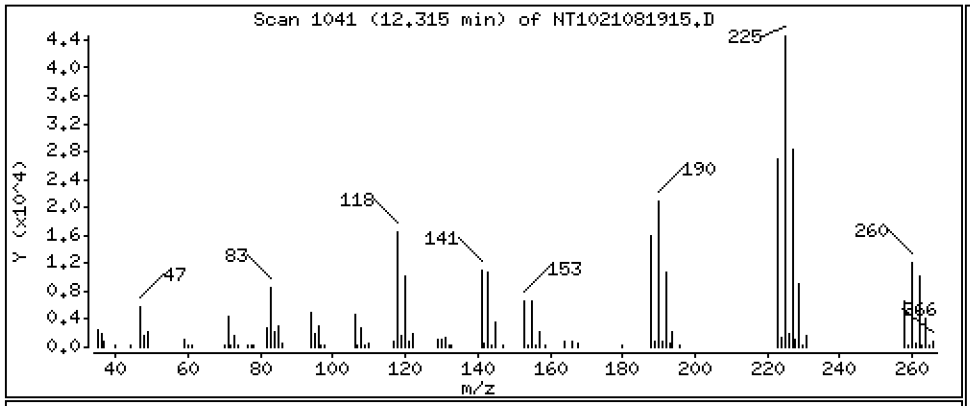
Operator: VTS

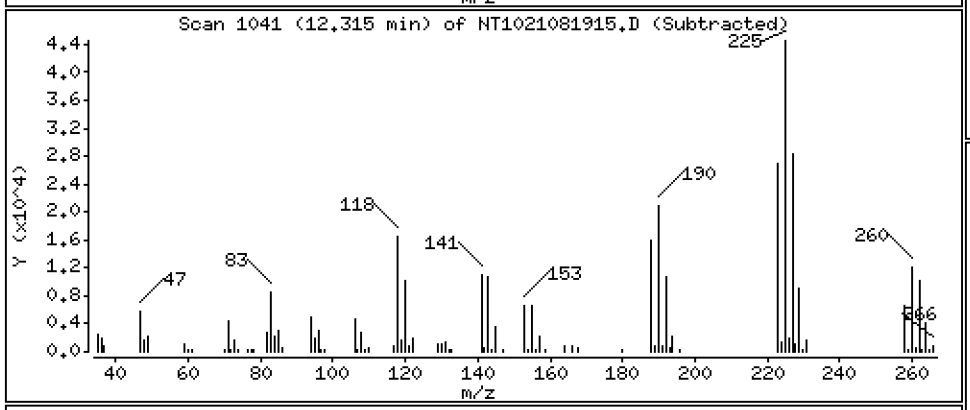
Column phase: ZB-5msi

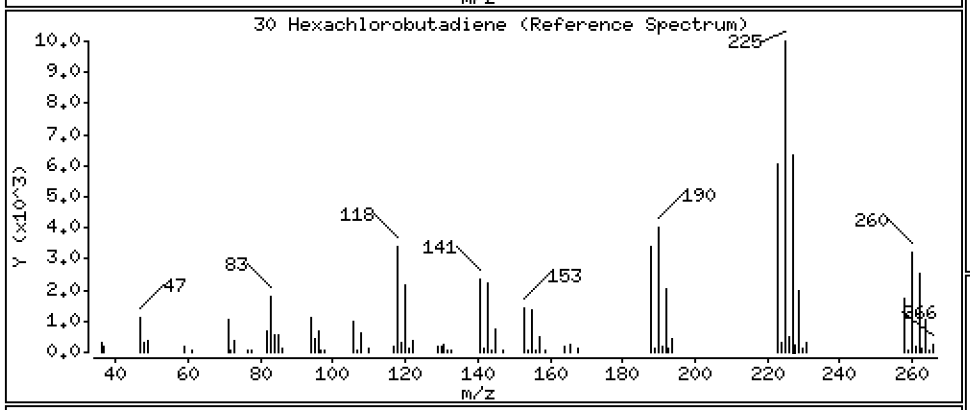
Column diameter: 0.25

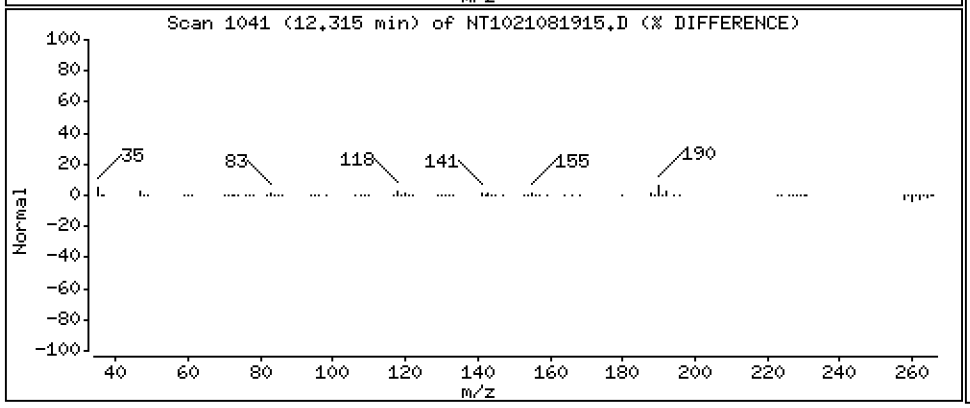
30 Hexachlorobutadiene

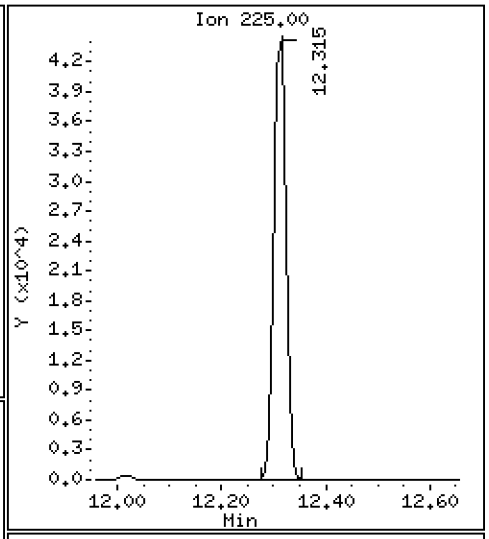
Concentration: 5.107 ug/mL

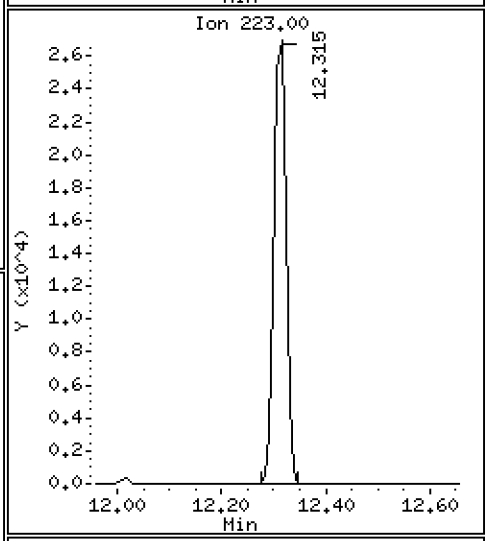


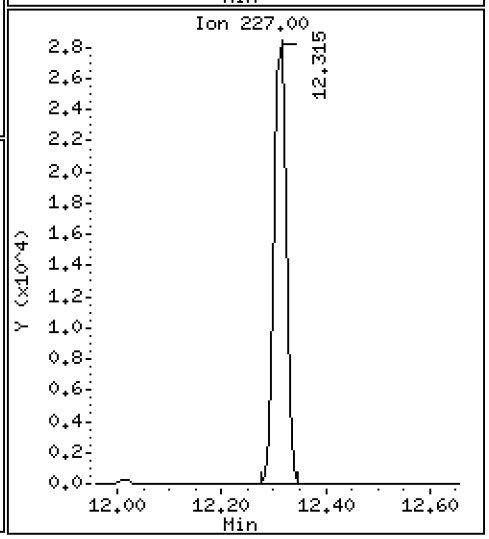












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

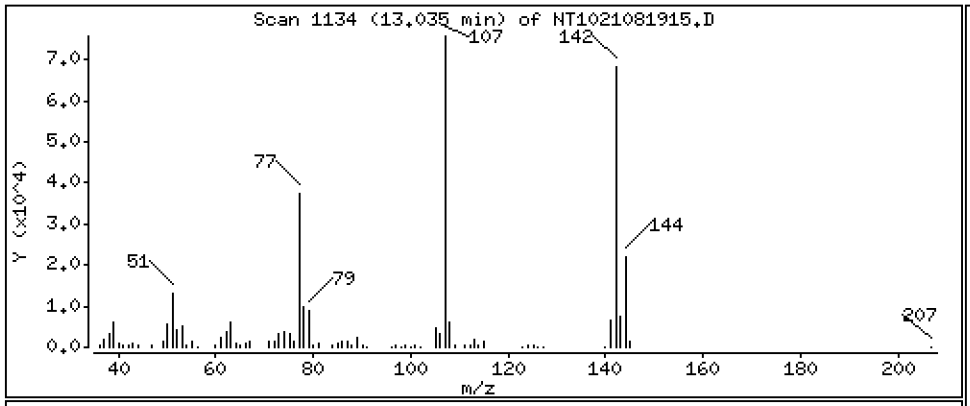
Operator: VTS

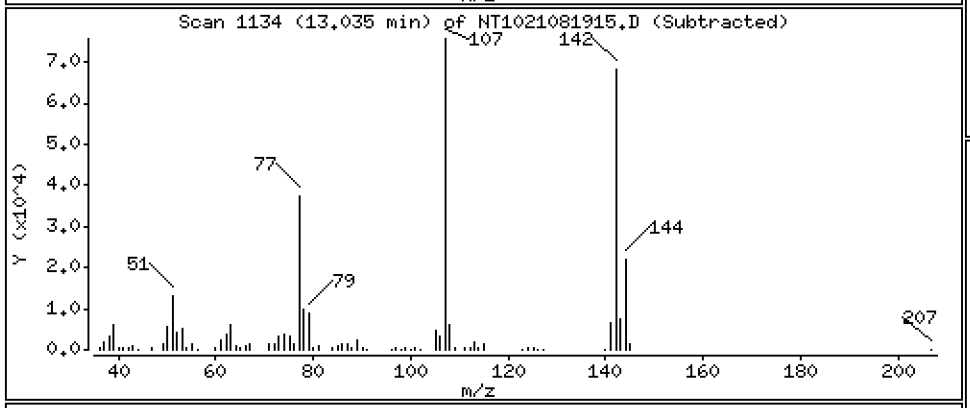
Column phase: ZB-5msi

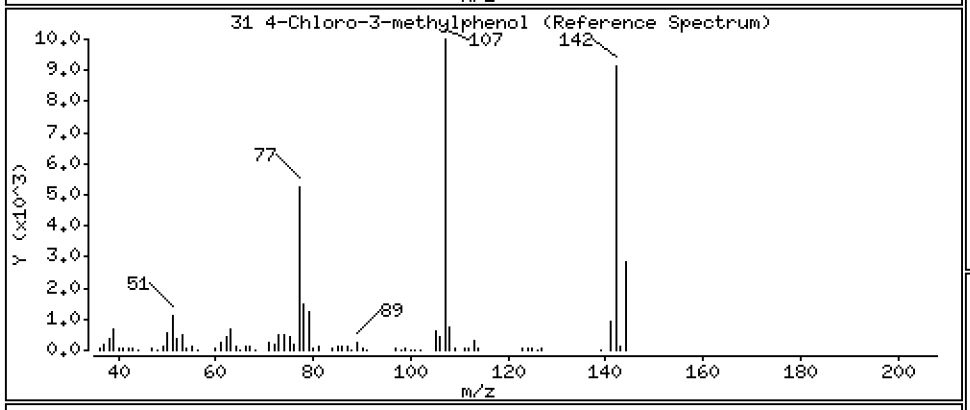
Column diameter: 0.25

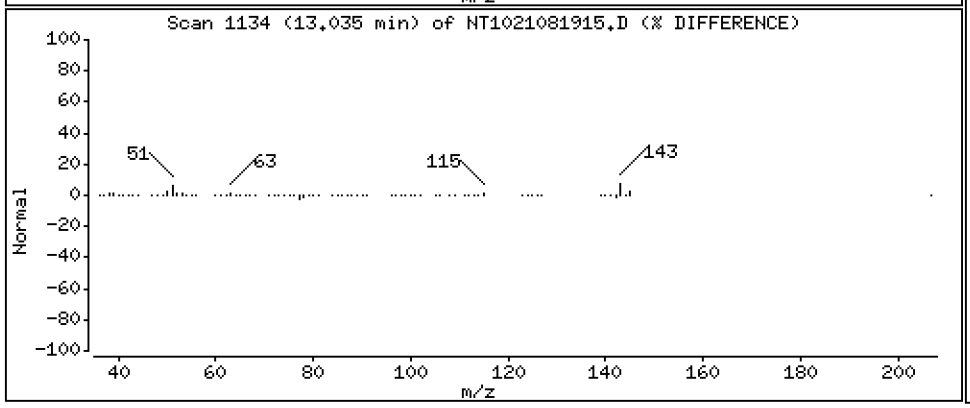
31 4-Chloro-3-methylphenol

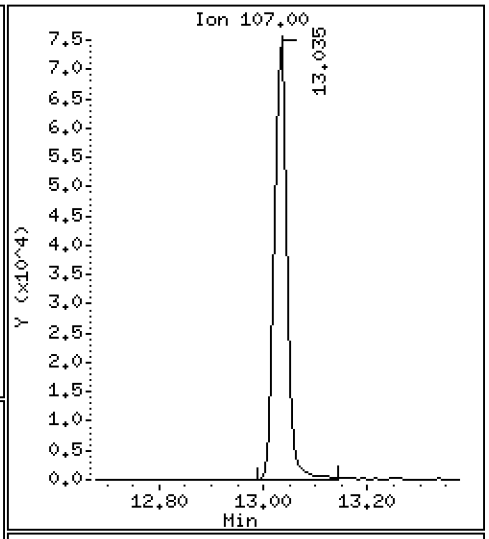
Concentration: 4.925 ug/mL

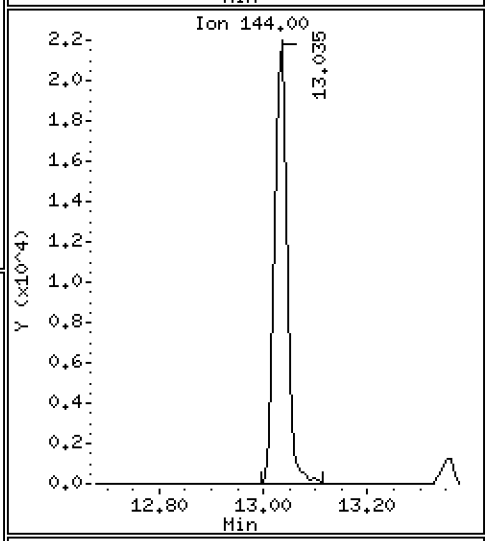


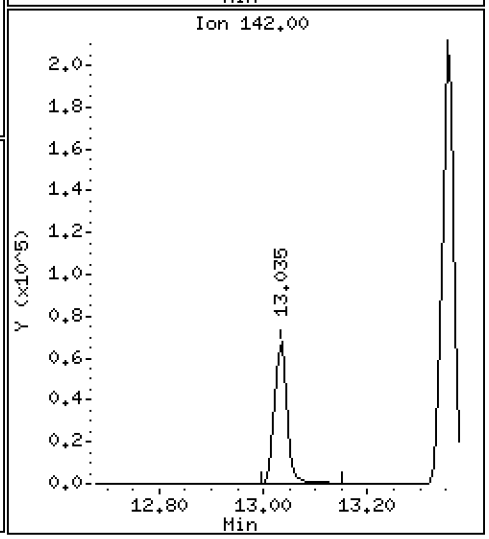












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

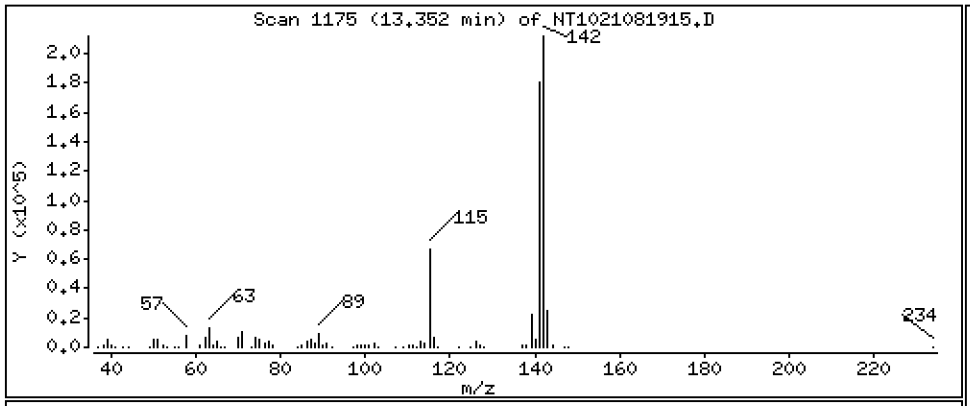
Operator: VTS

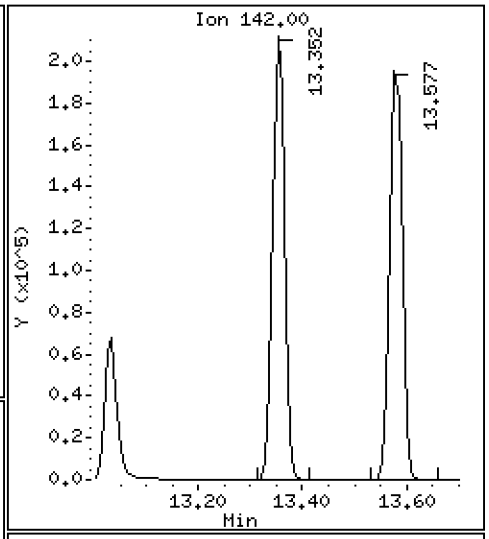
Column phase: ZB-5msi

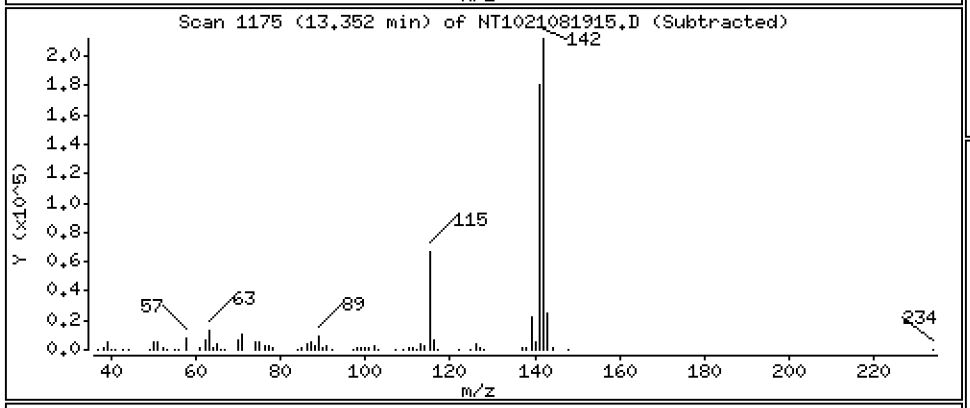
Column diameter: 0.25

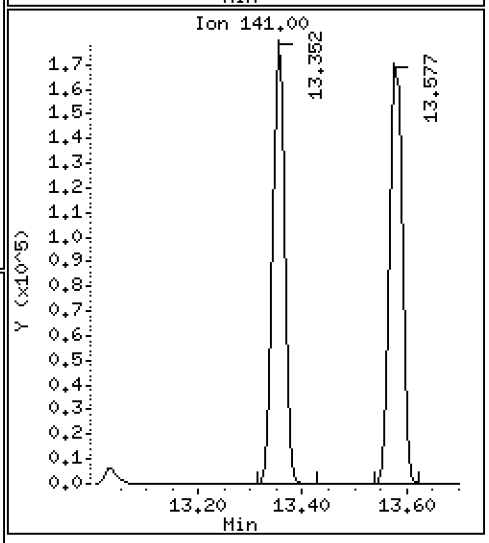
32 2-Methylnaphthalene

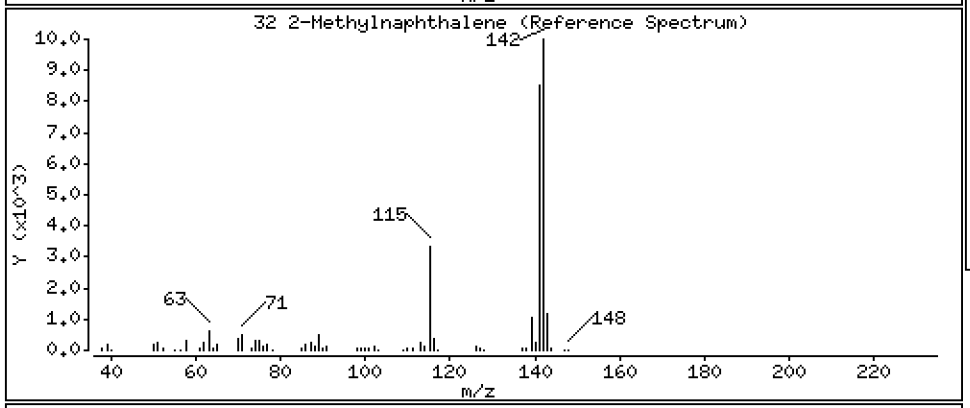
Concentration: 4.723 ug/mL

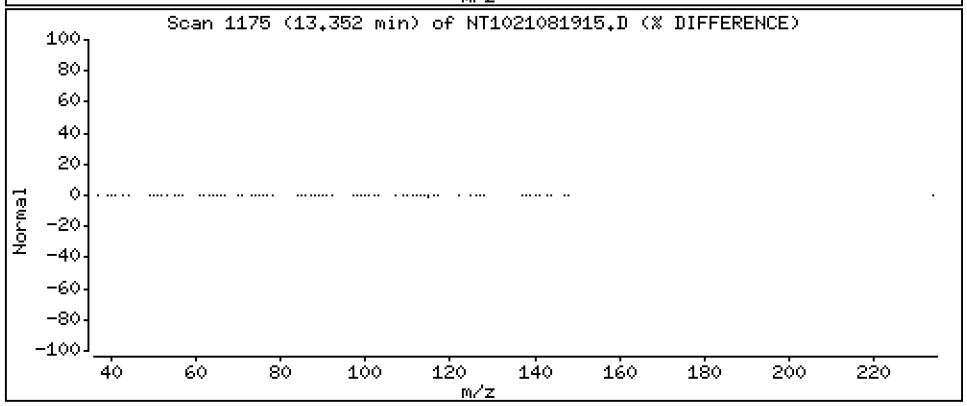












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

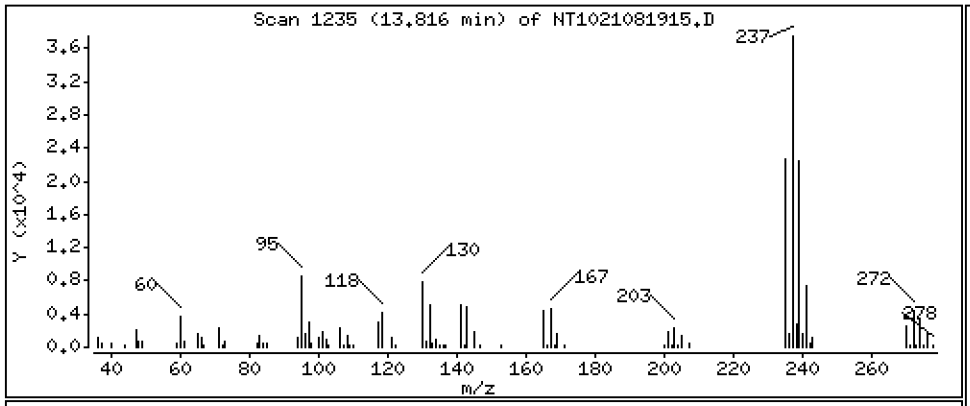
Operator: VTS

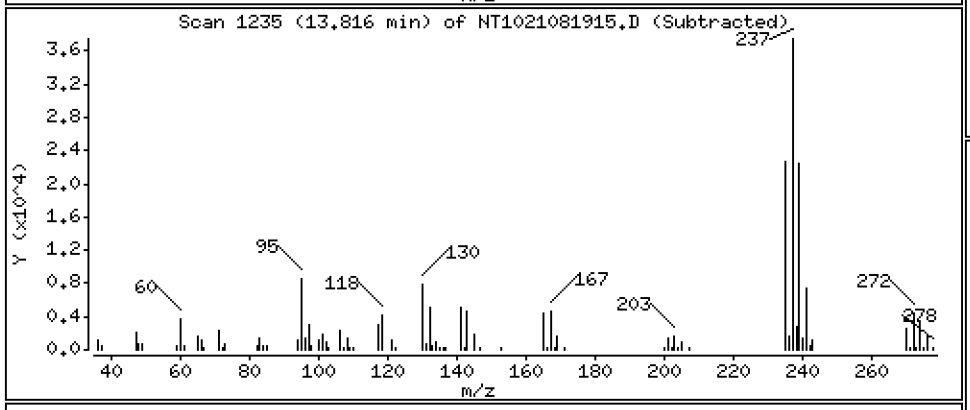
Column phase: ZB-5msi

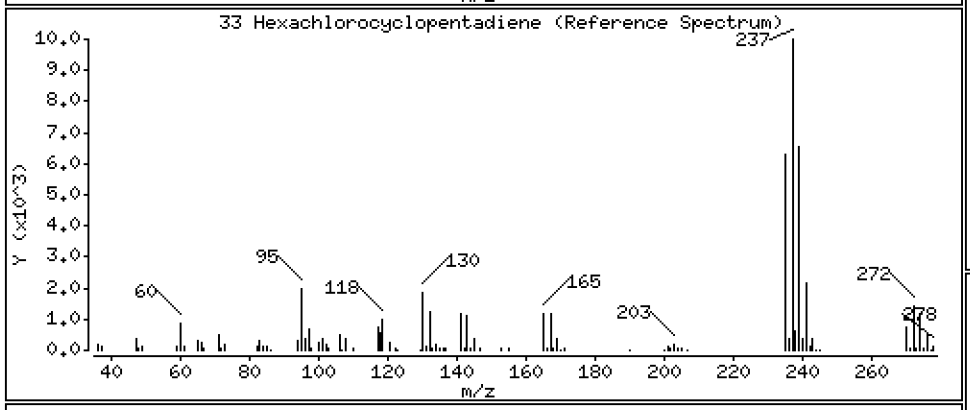
Column diameter: 0.25

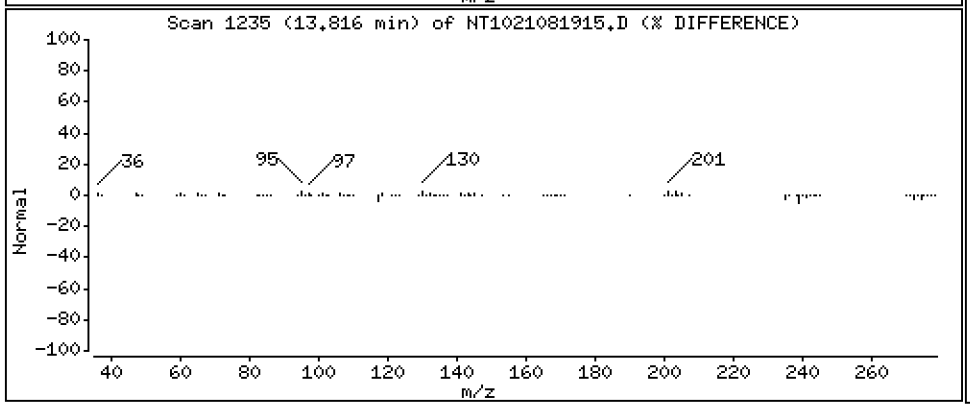
33 Hexachlorocyclopentadiene

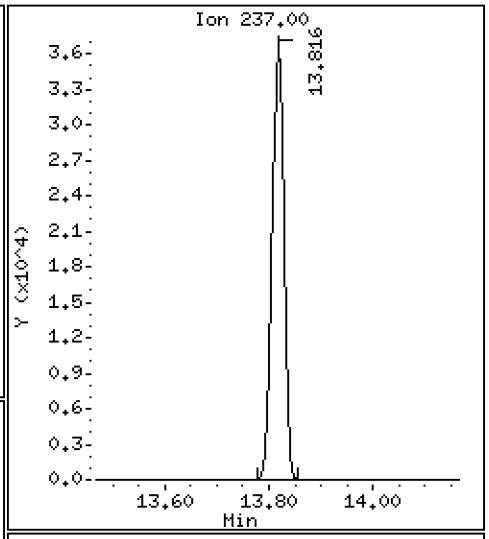
Concentration: 4.314 ug/mL

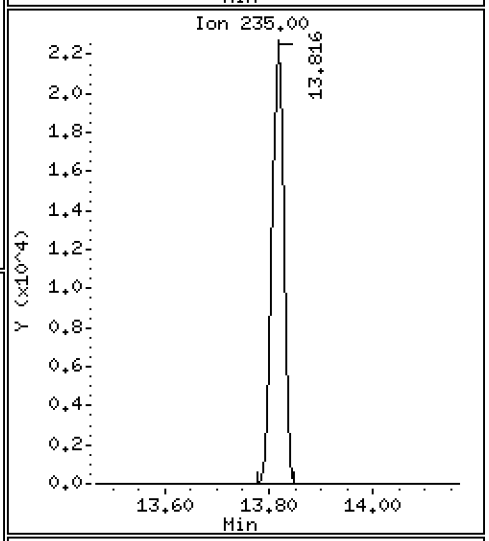


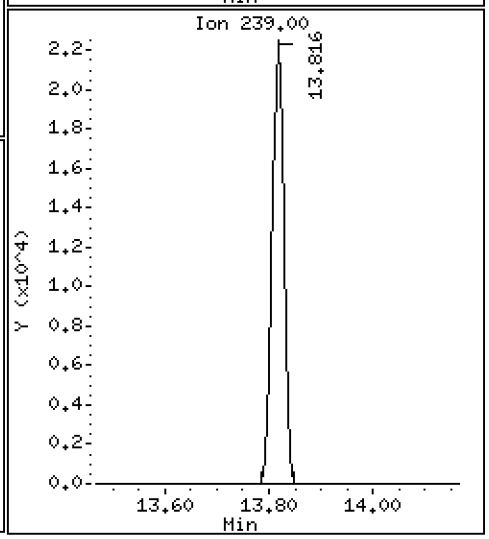












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

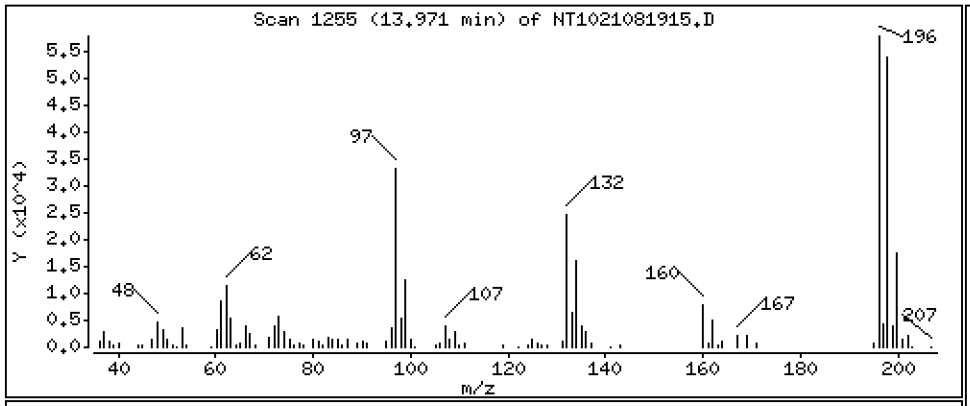
Operator: VTS

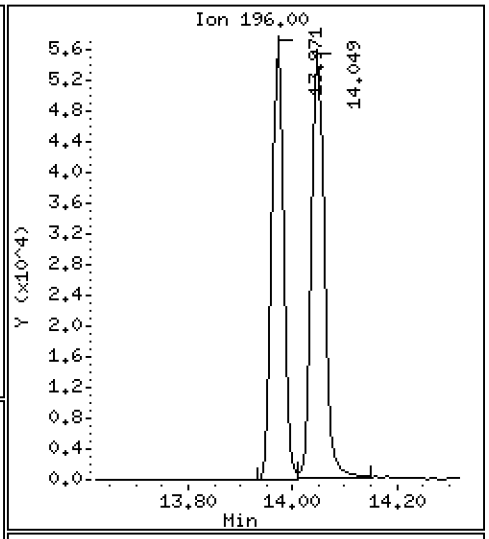
Column phase: ZB-5msi

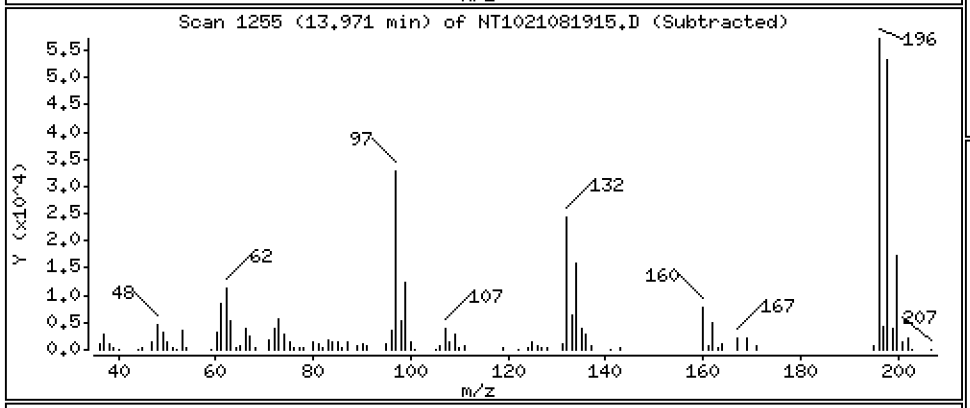
Column diameter: 0.25

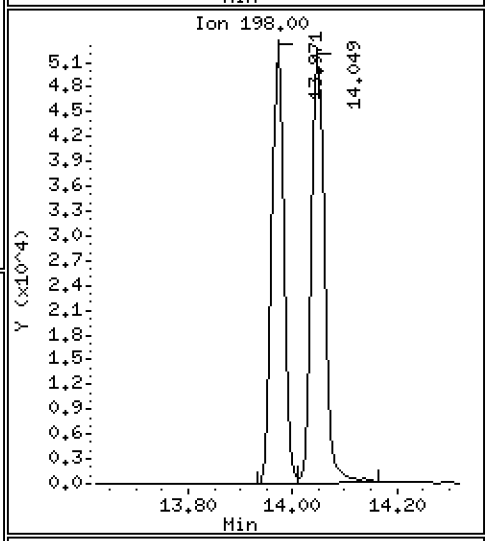
34 2,4,6-Trichlorophenol

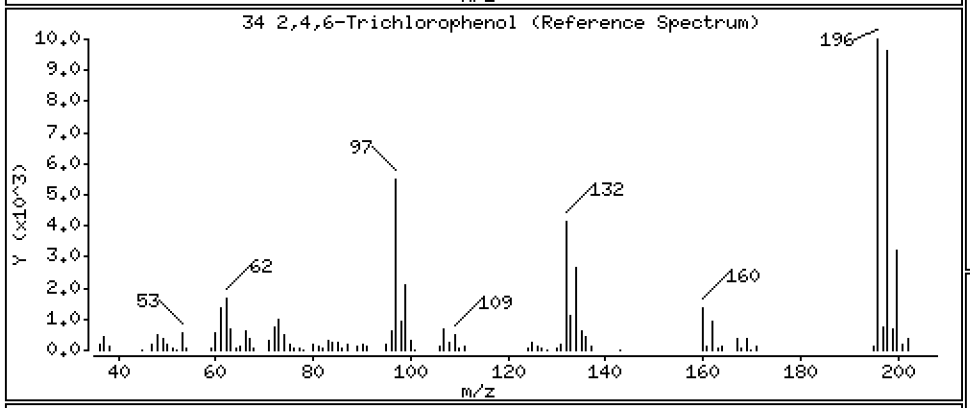
Concentration: 4.770 ug/mL

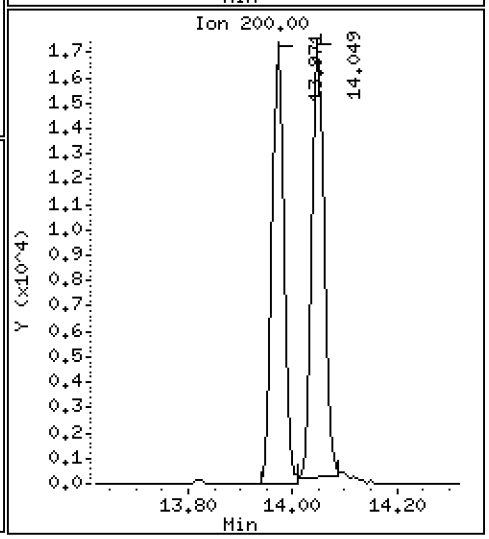


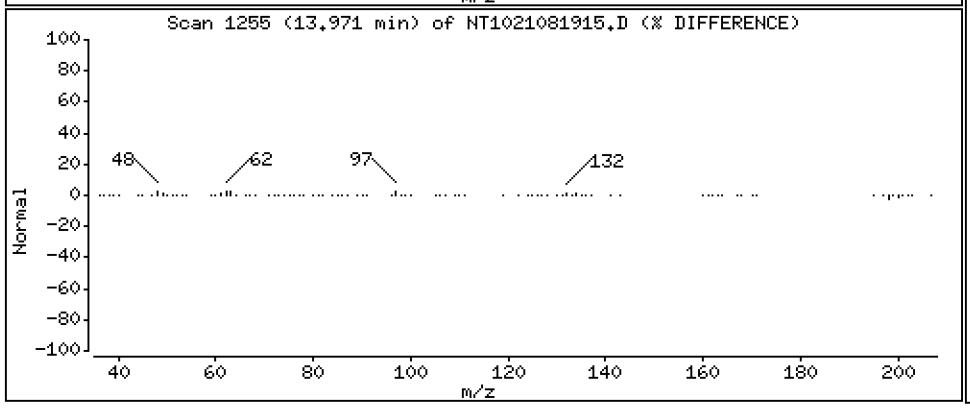












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

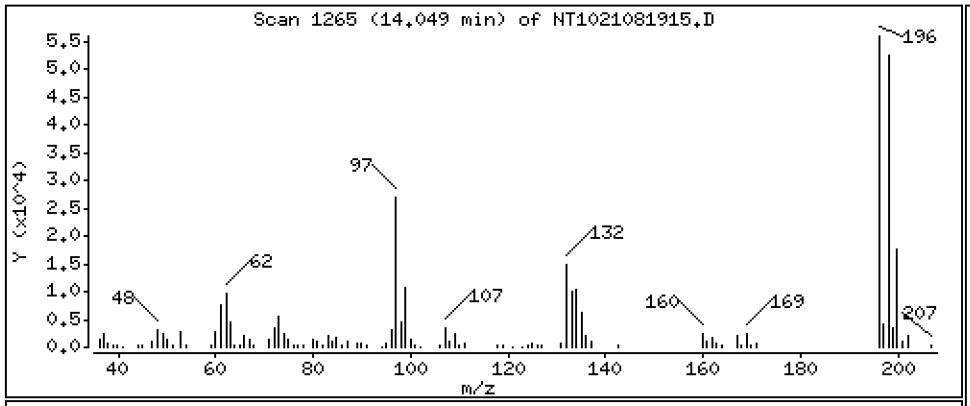
Operator: VTS

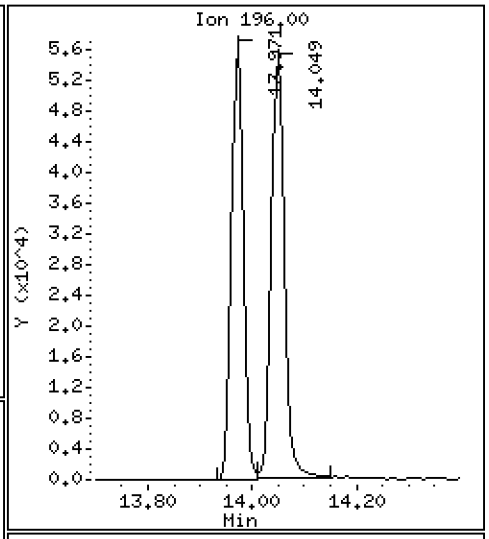
Column phase: ZB-5msi

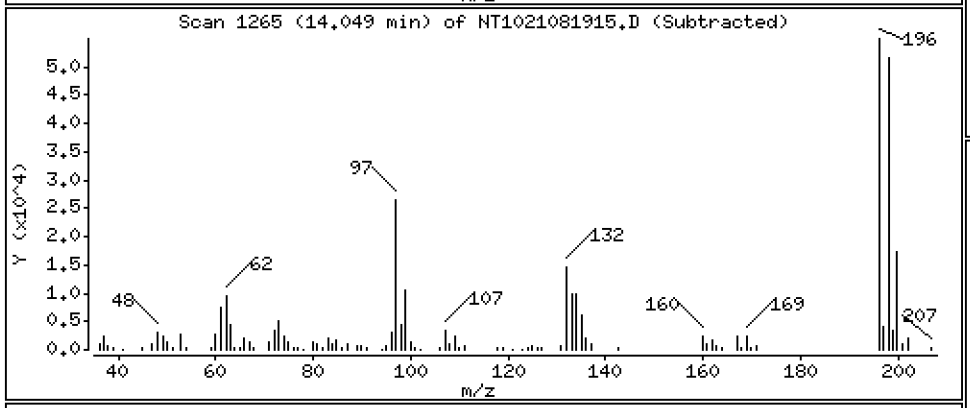
Column diameter: 0.25

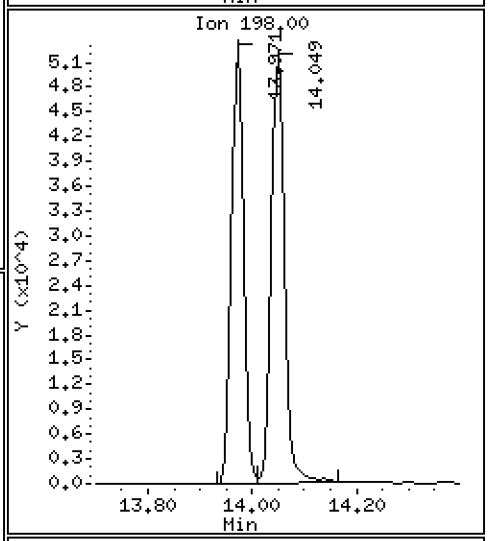
35 2,4,5-Trichlorophenol

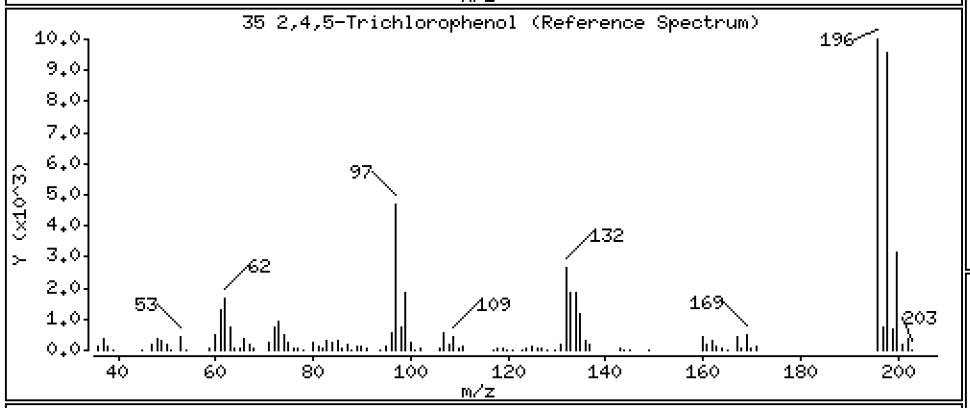
Concentration: 4.914 ug/mL

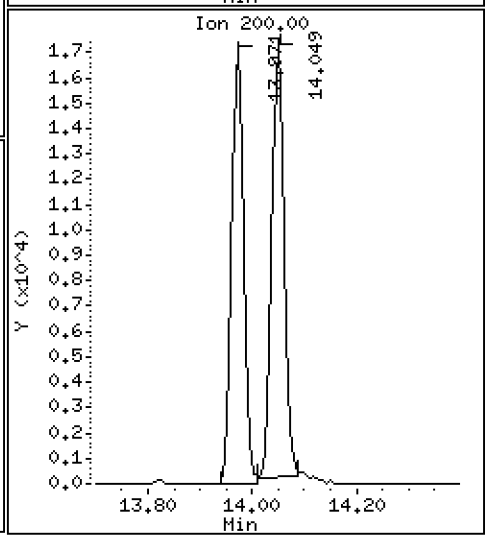


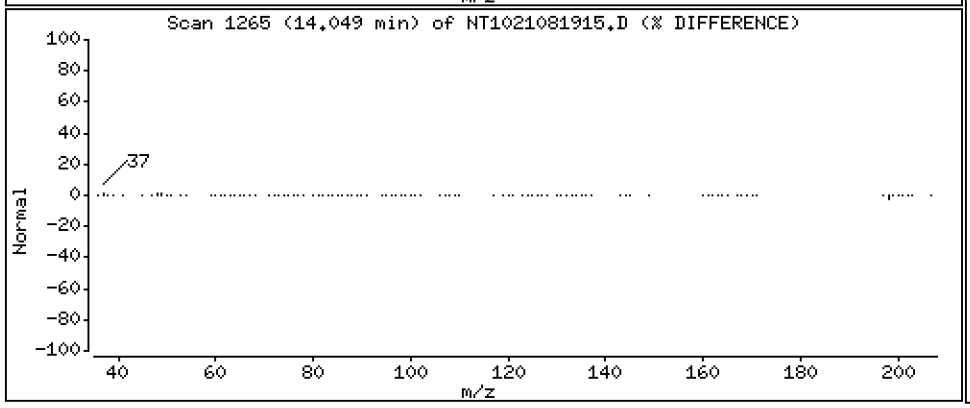












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

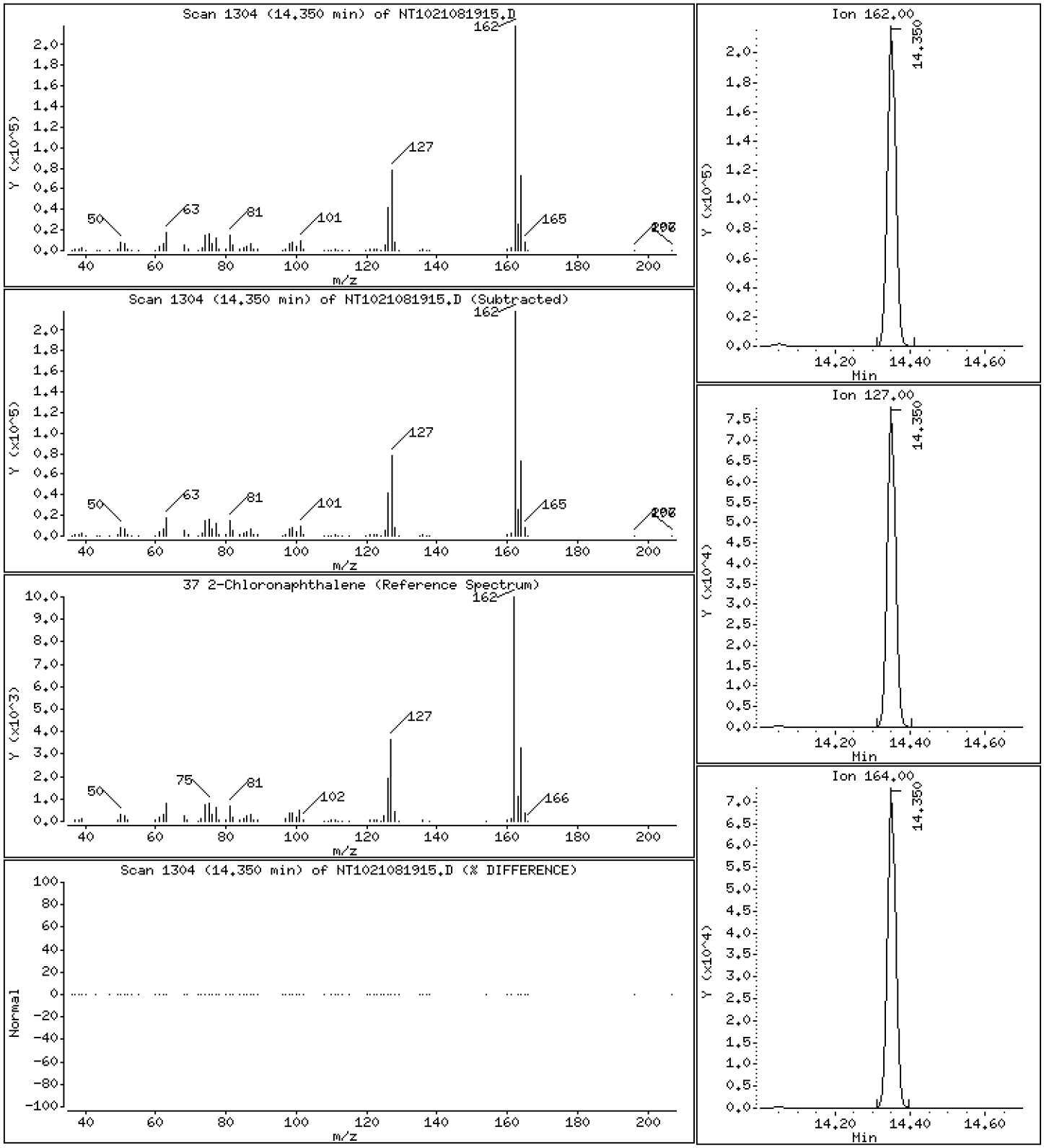
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 5.585 ug/mL



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

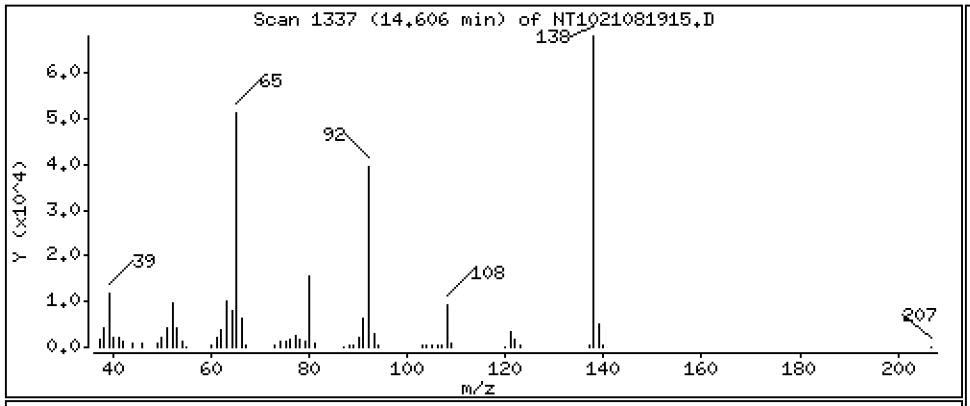
Operator: VTS

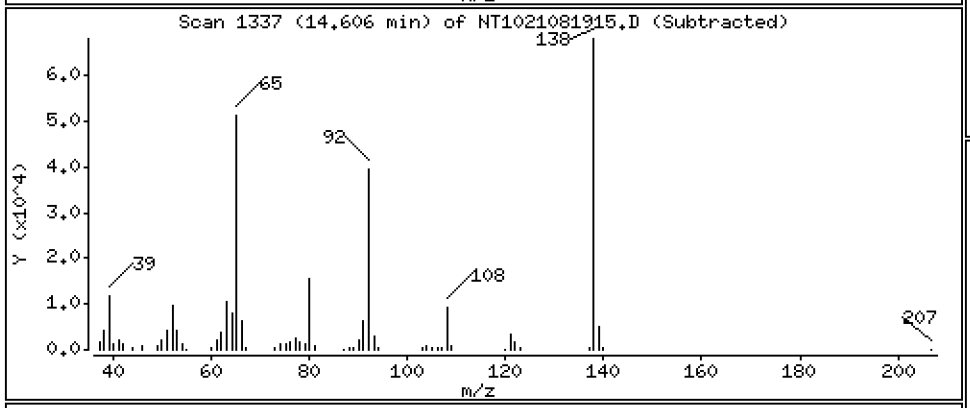
Column phase: ZB-5msi

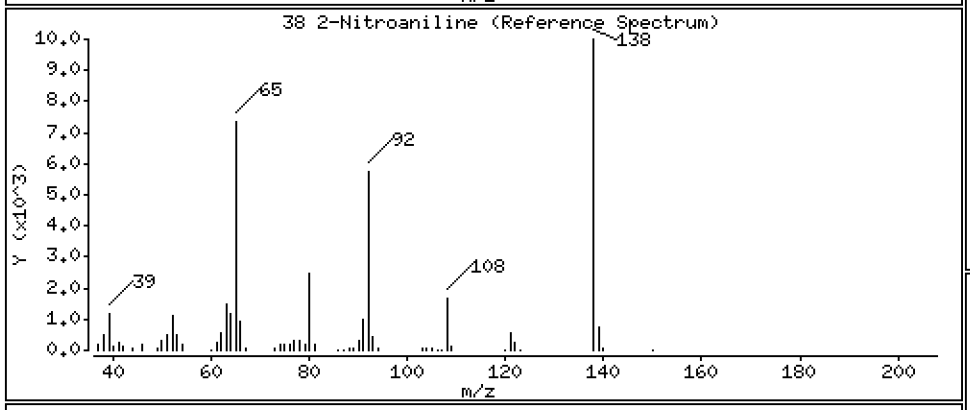
Column diameter: 0.25

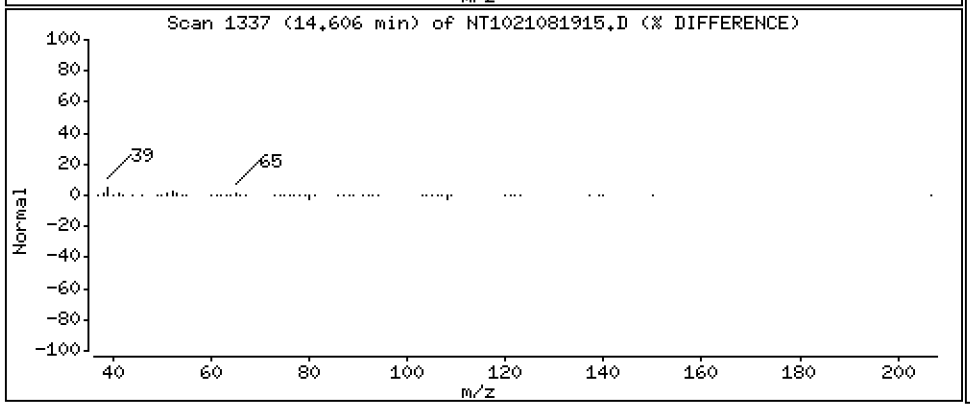
38 2-Nitroaniline

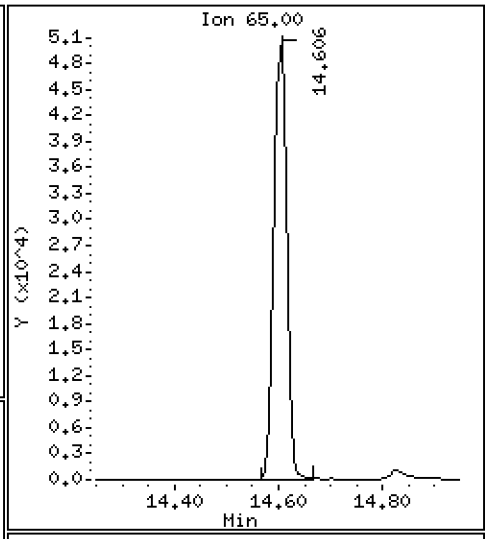
Concentration: 4.972 ug/mL

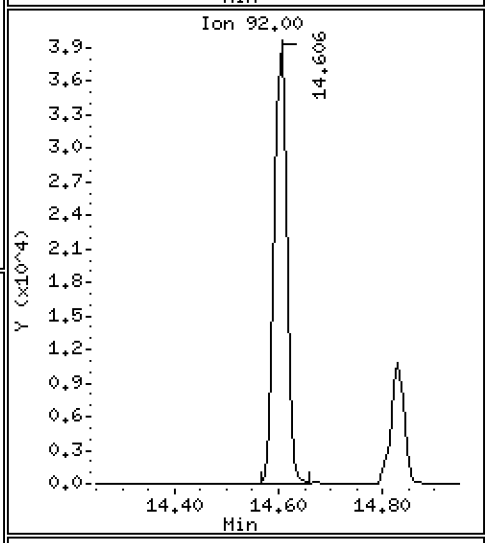


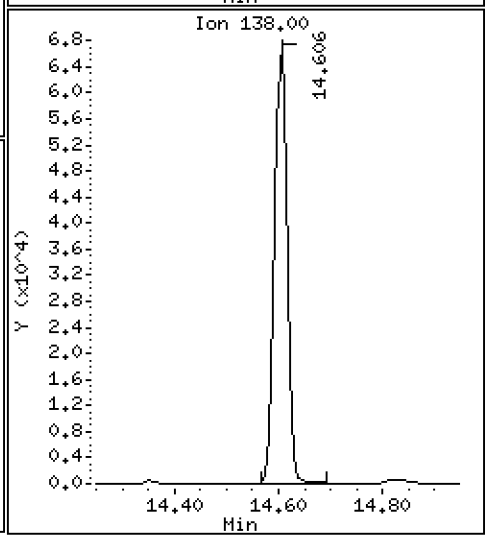












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

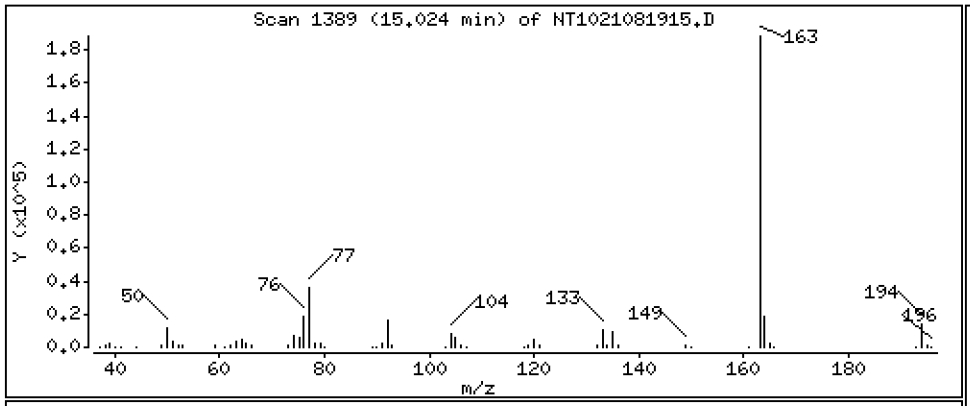
Operator: VTS

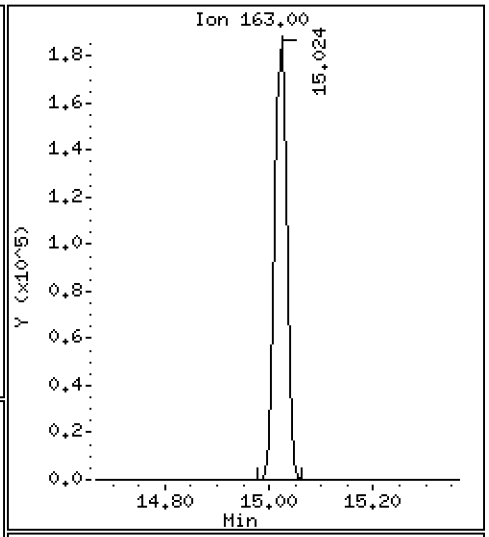
Column phase: ZB-5msi

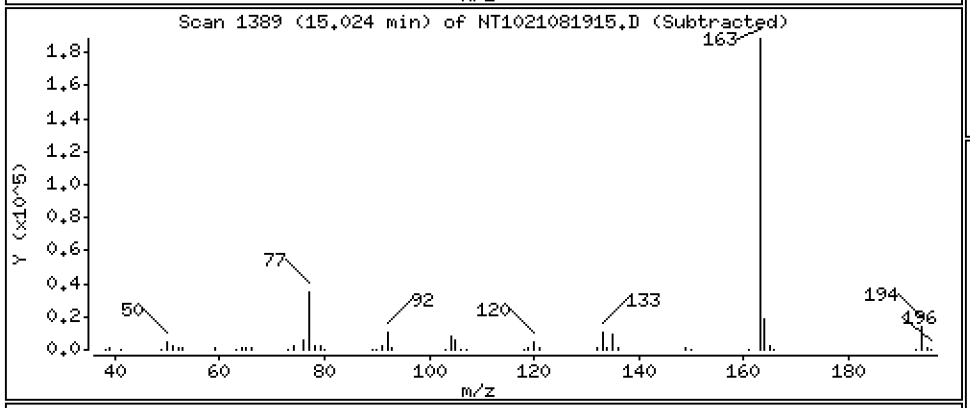
Column diameter: 0.25

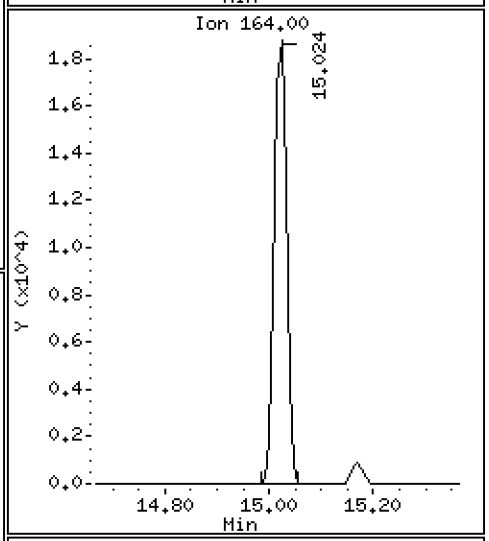
39 Dimethylphthalate

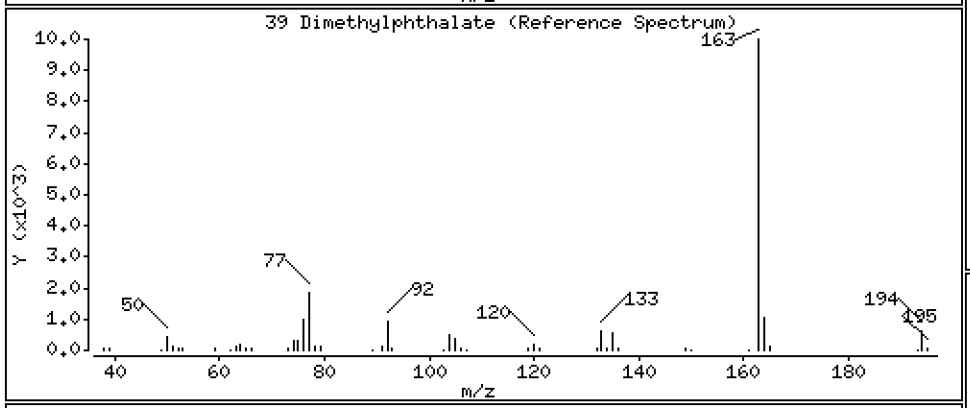
Concentration: 4.979 ug/mL

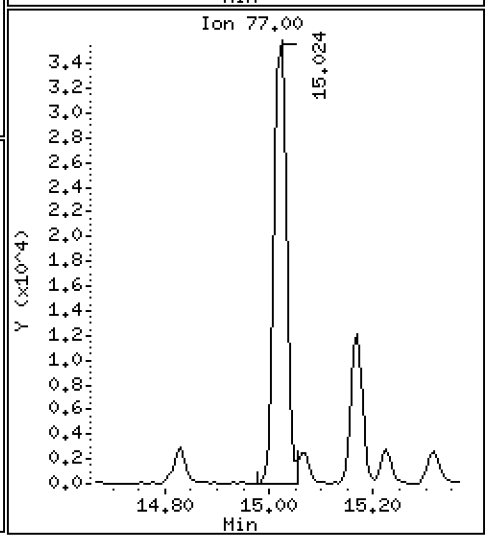


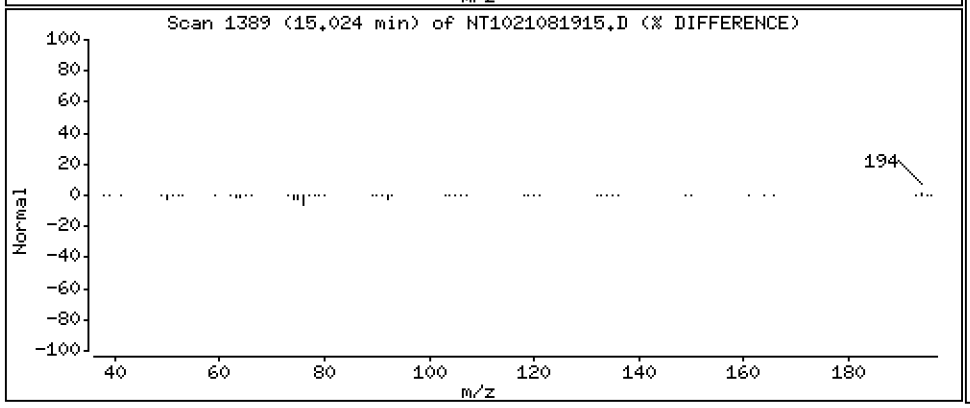












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

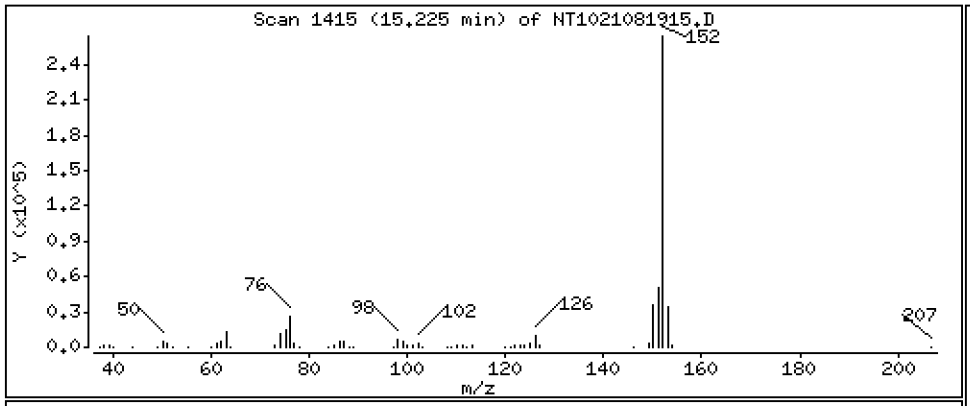
Operator: VTS

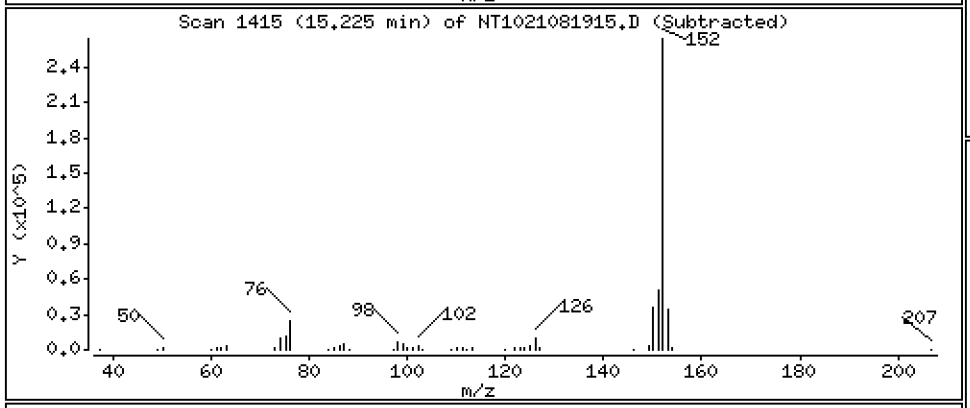
Column phase: ZB-5msi

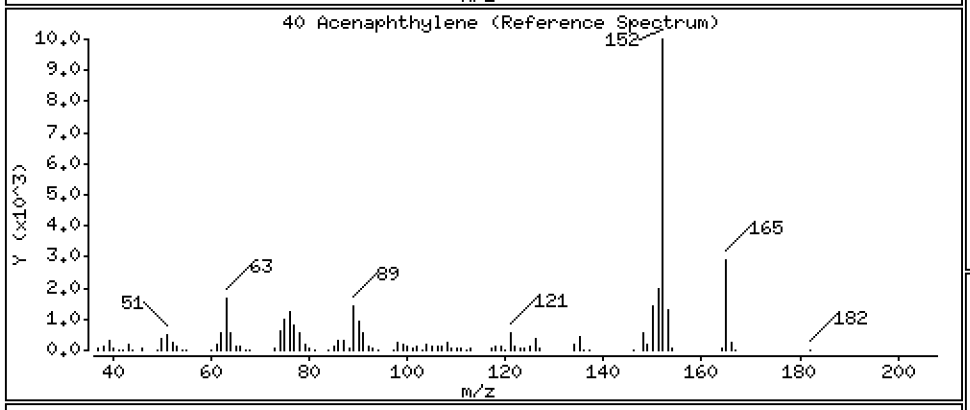
Column diameter: 0.25

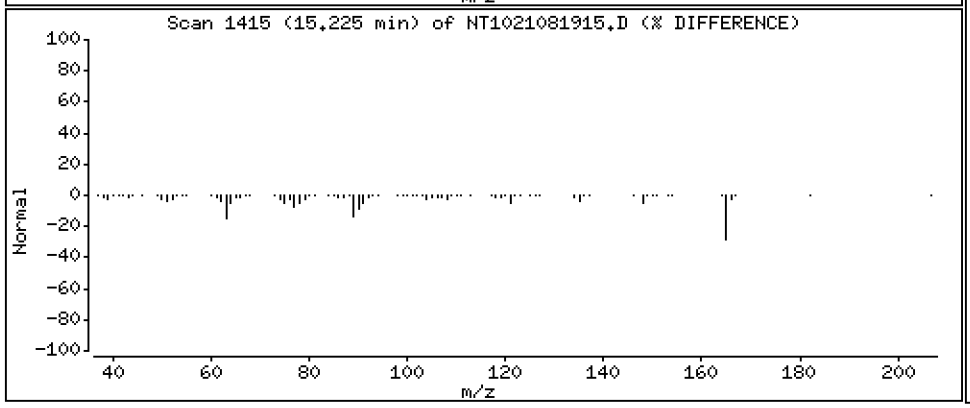
40 Acenaphthylene

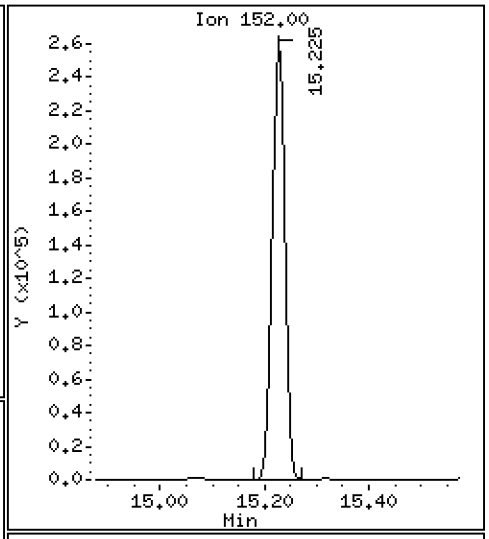
Concentration: 4.796 ug/mL

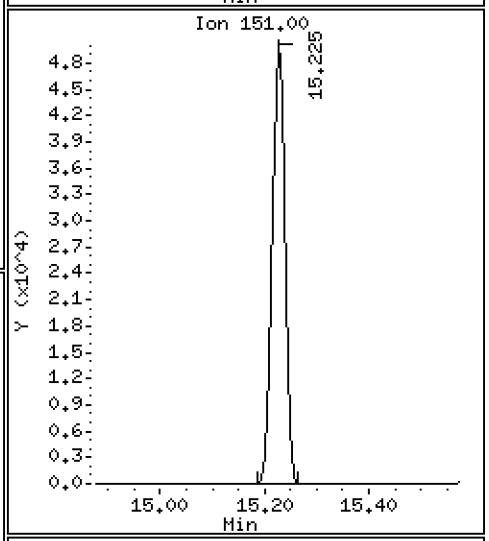


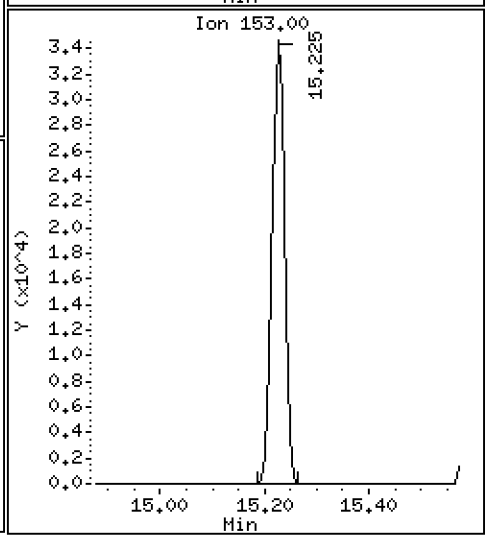












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

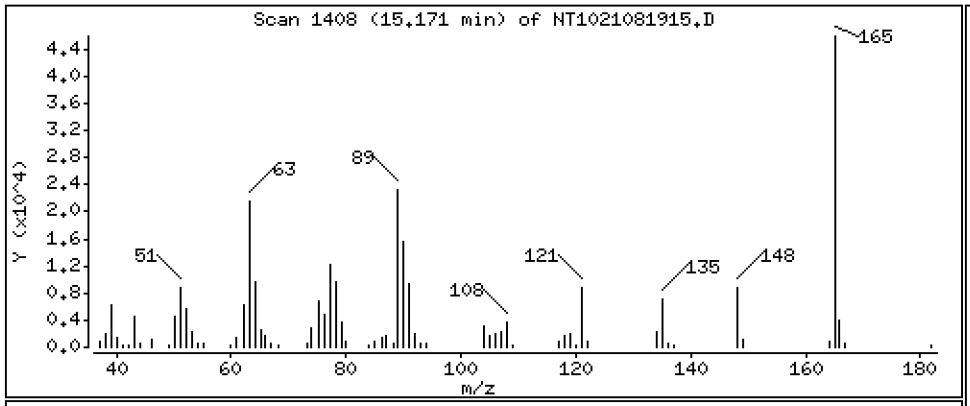
Operator: VTS

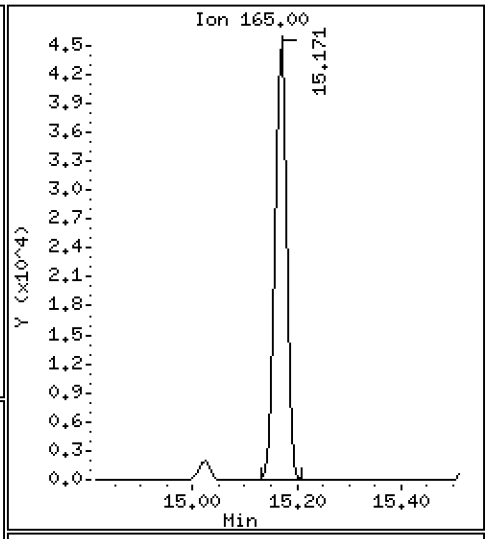
Column phase: ZB-5msi

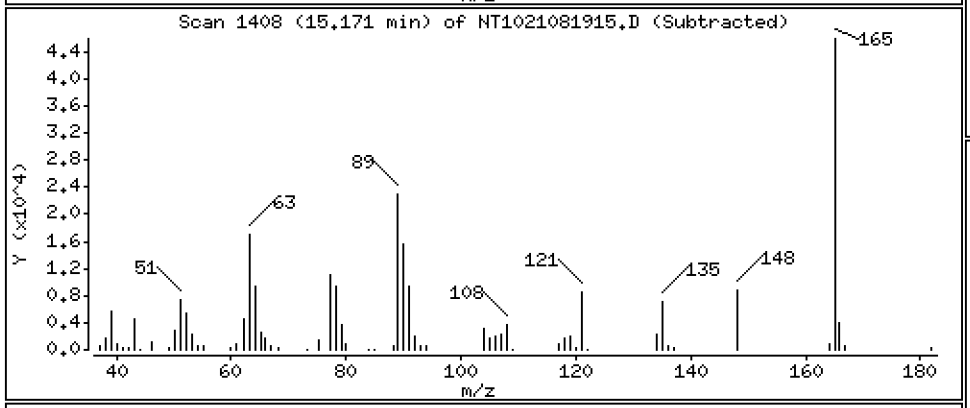
Column diameter: 0.25

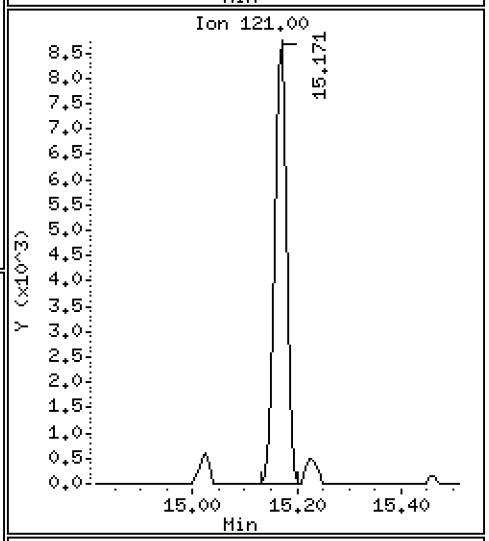
41 2,6-Dinitrotoluene

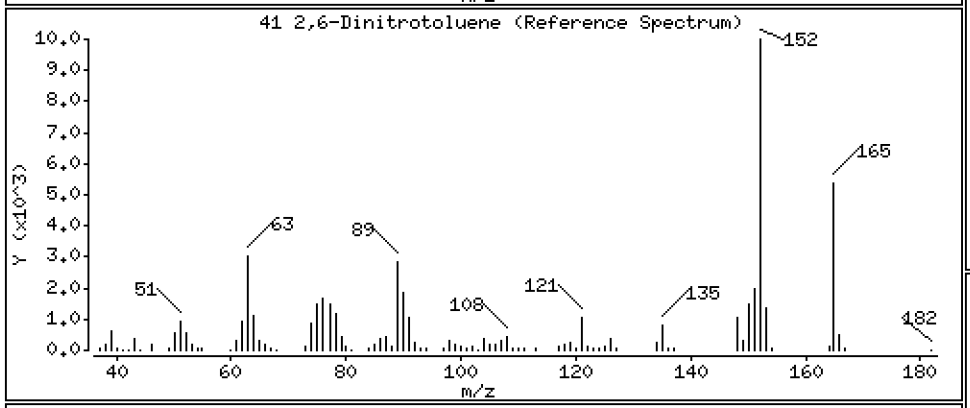
Concentration: 5.369 ug/mL

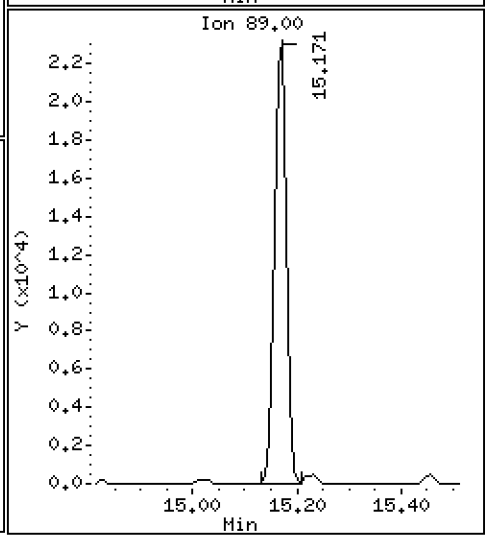


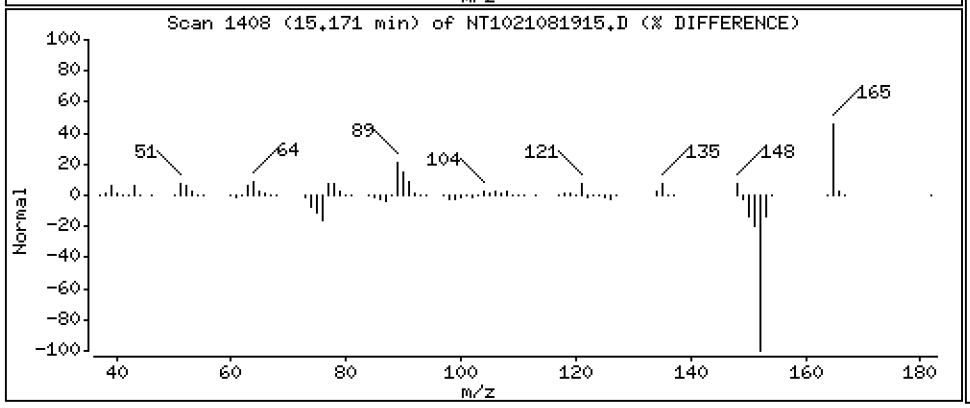












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

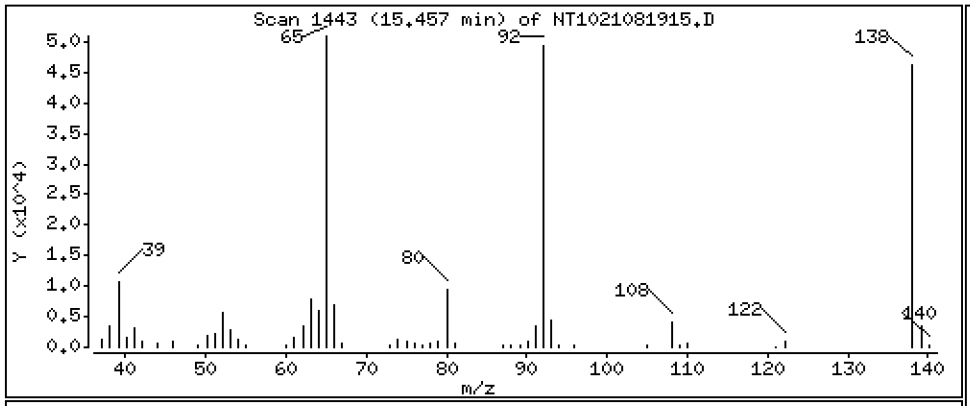
Operator: VTS

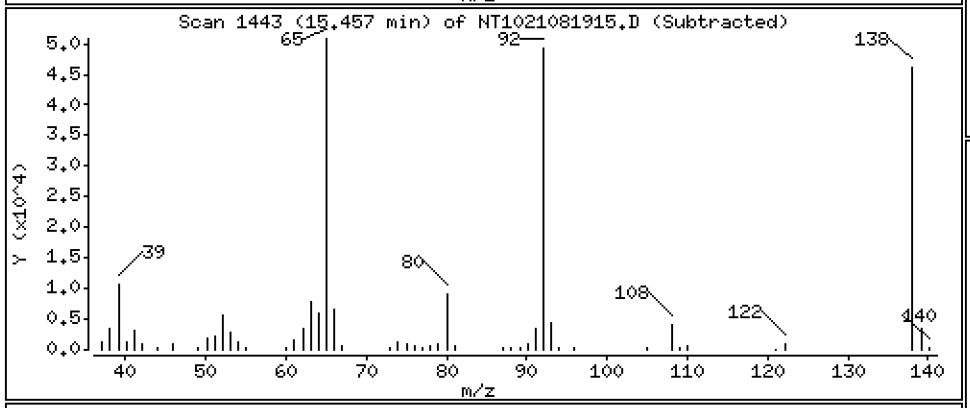
Column phase: ZB-5msi

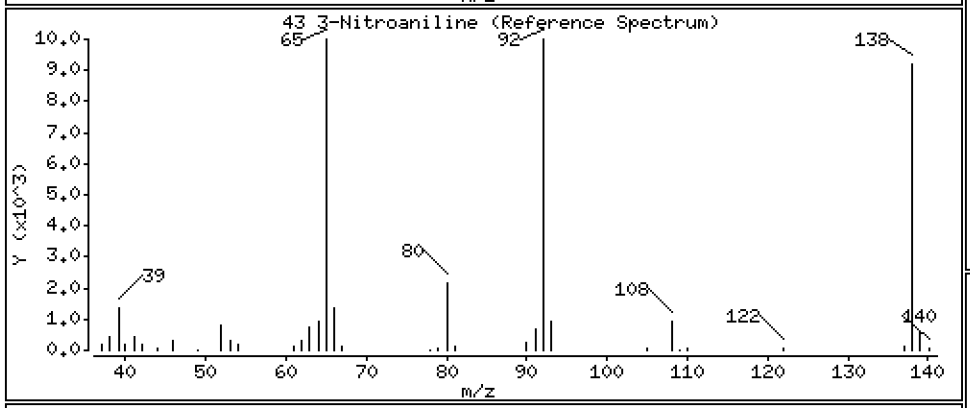
Column diameter: 0.25

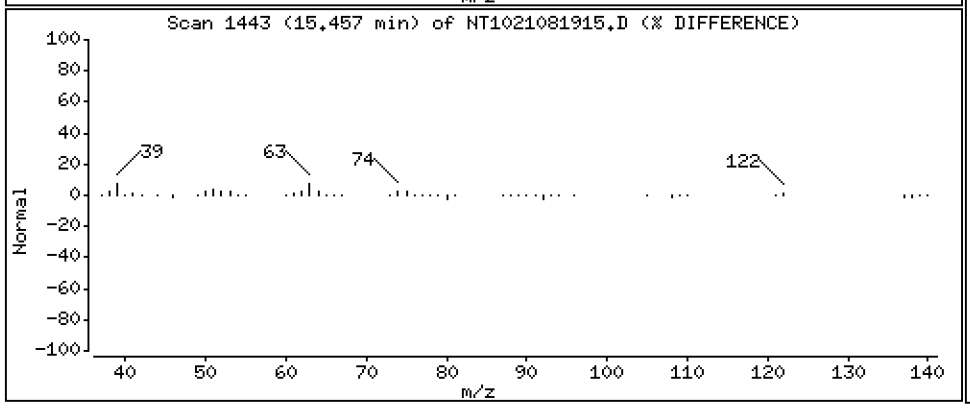
43 3-Nitroaniline

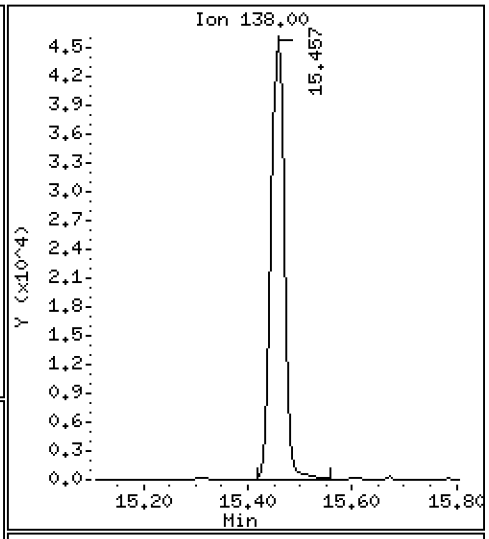
Concentration: 4.562 ug/mL

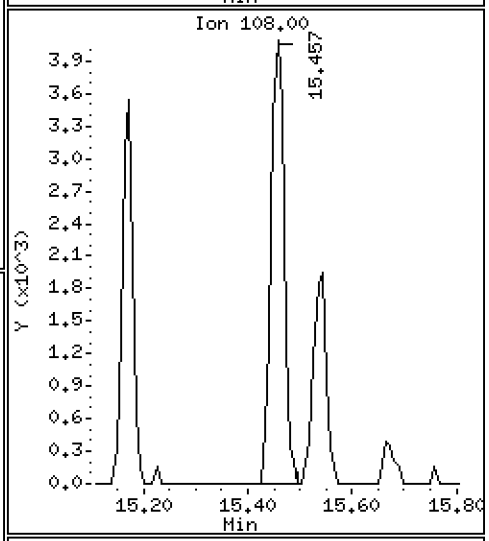


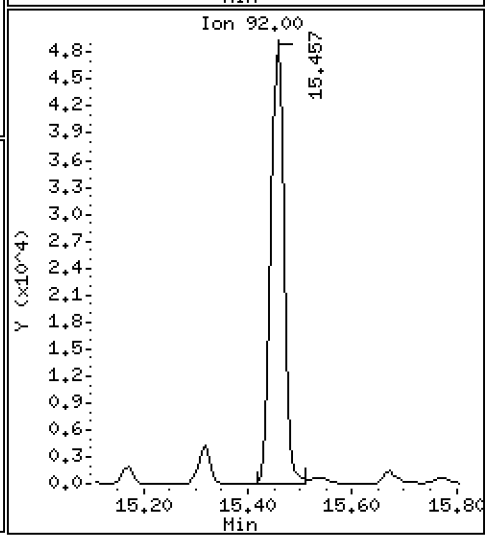












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

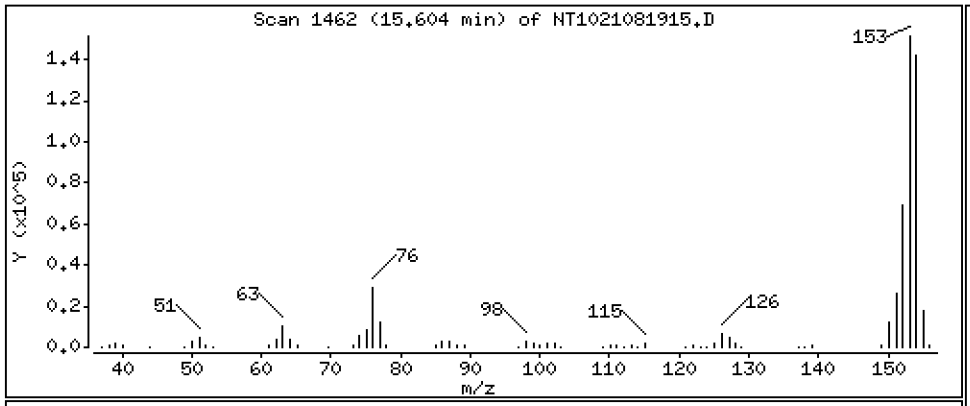
Operator: VTS

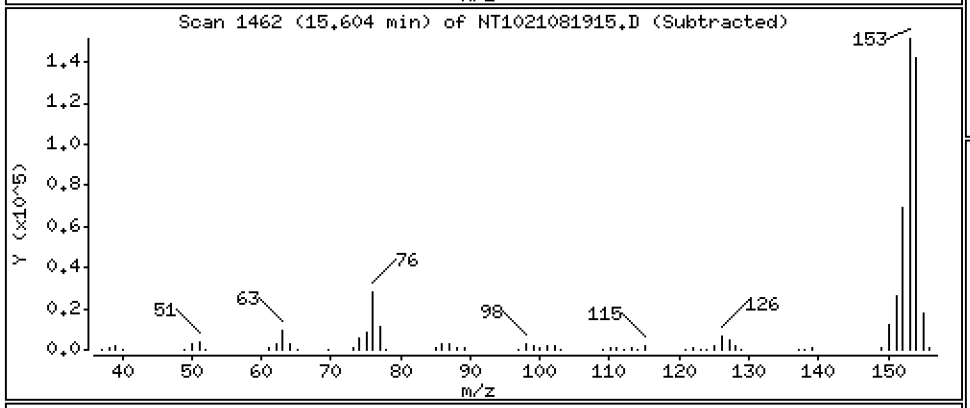
Column phase: ZB-5msi

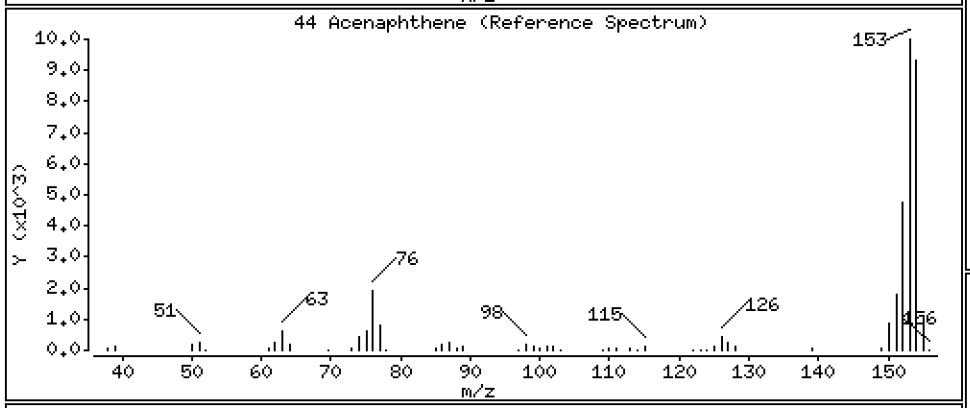
Column diameter: 0.25

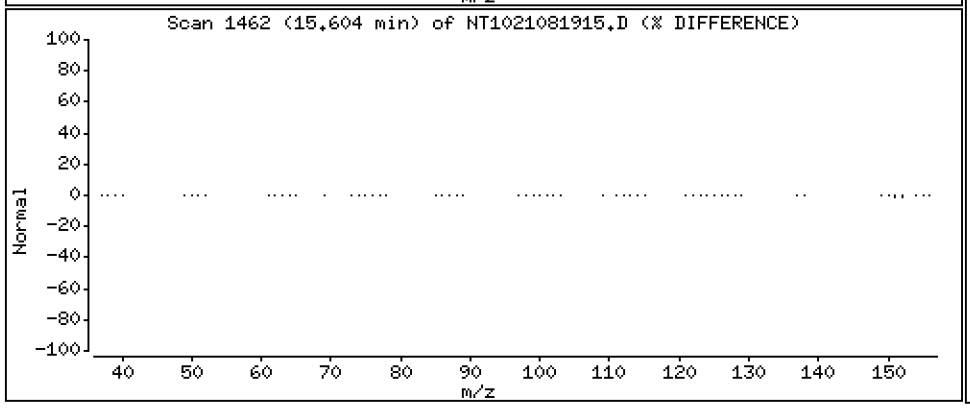
44 Acenaphthene

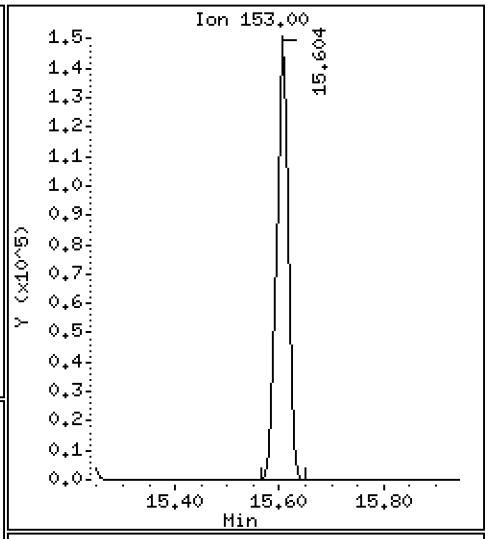
Concentration: 4.975 ug/mL

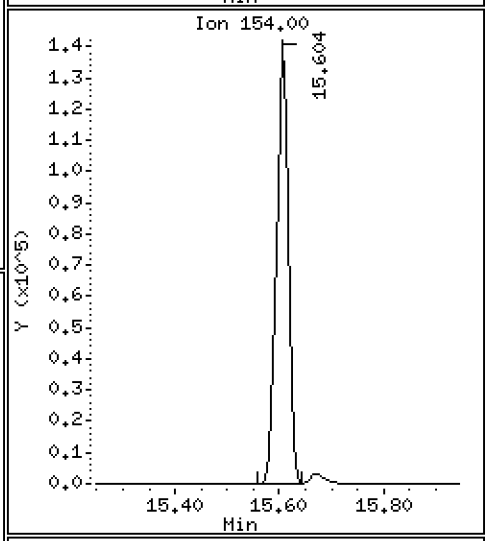


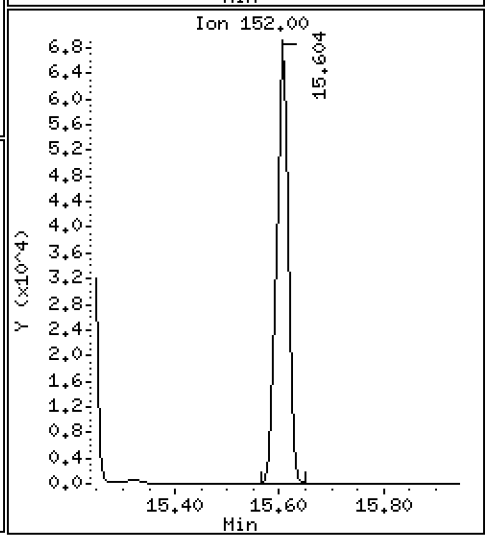












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

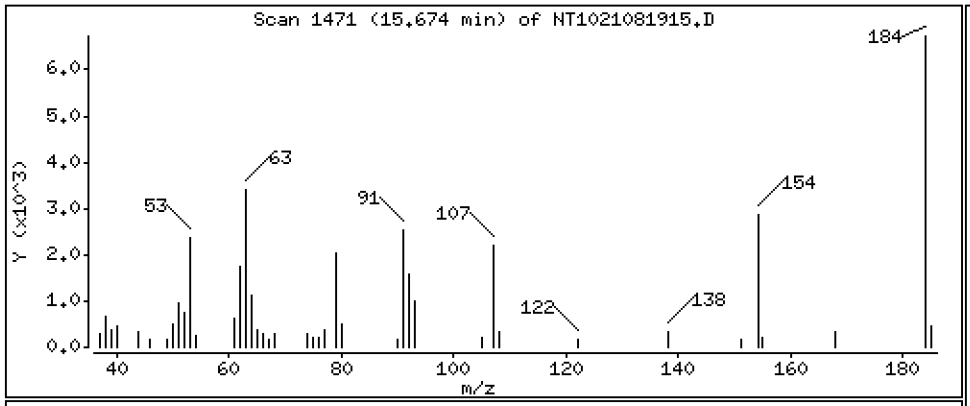
Operator: VTS

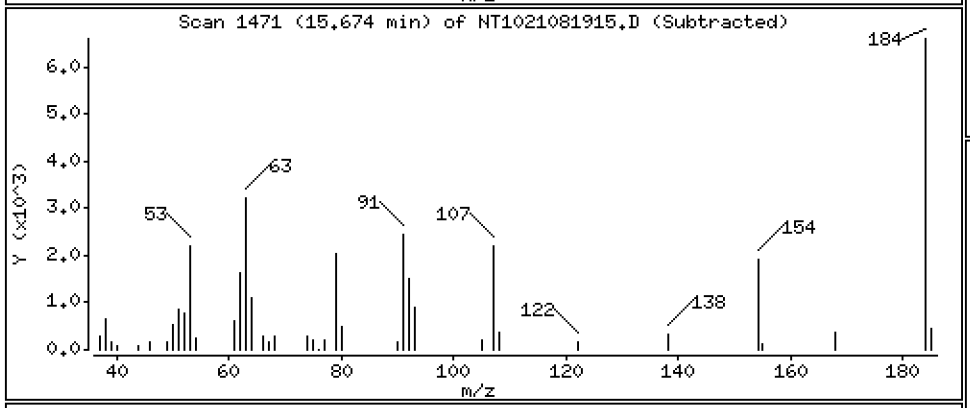
Column phase: ZB-5msi

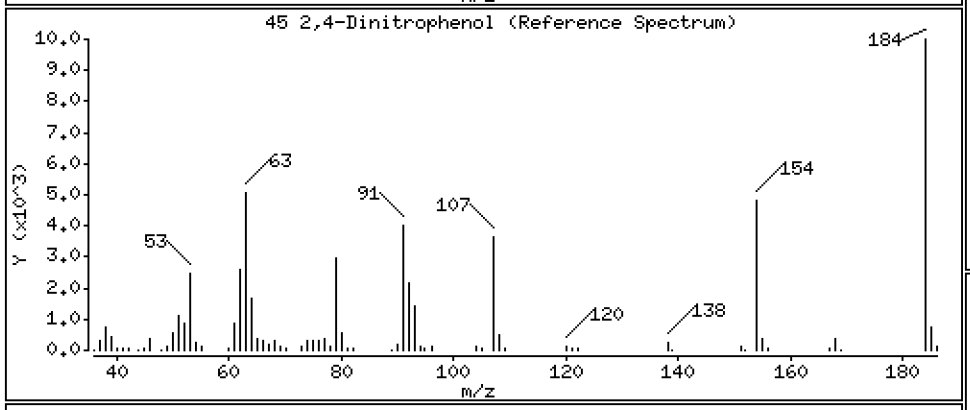
Column diameter: 0.25

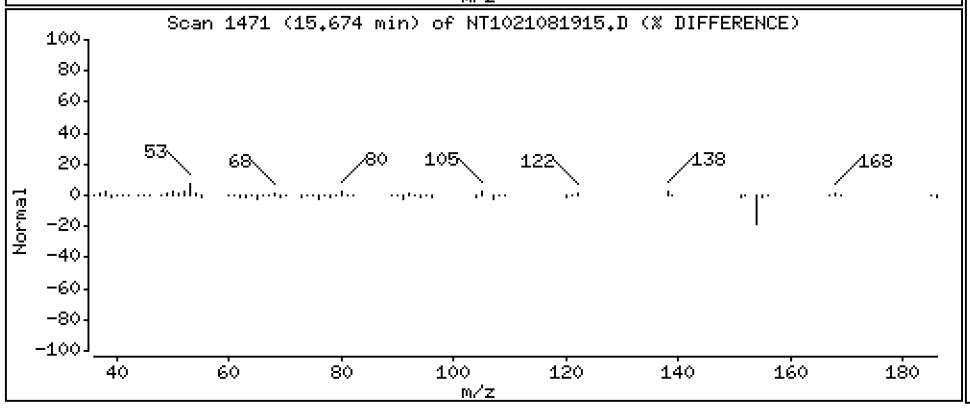
45 2,4-Dinitrophenol

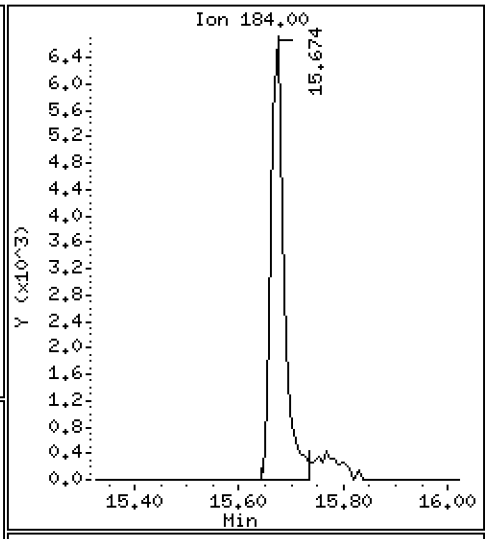
Concentration: 1.665 ug/mL

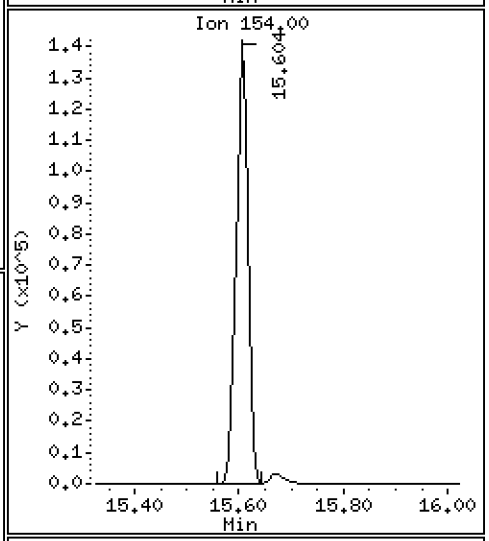


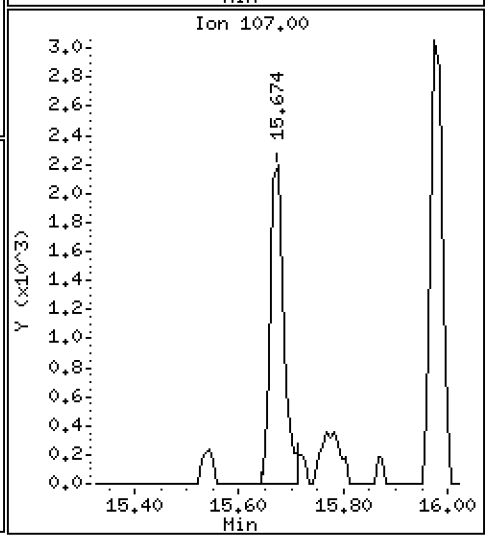












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

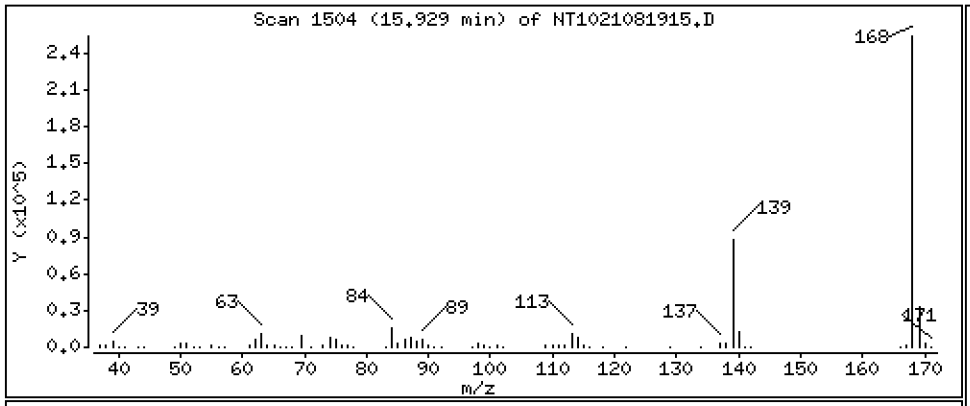
Operator: VTS

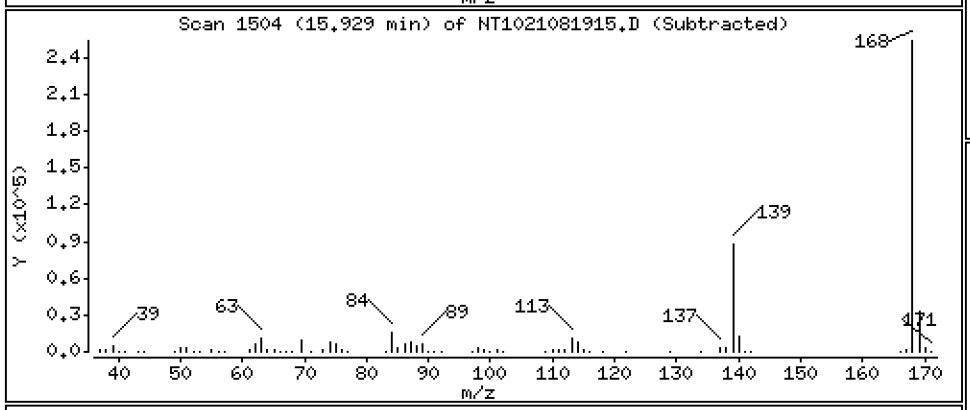
Column phase: ZB-5msi

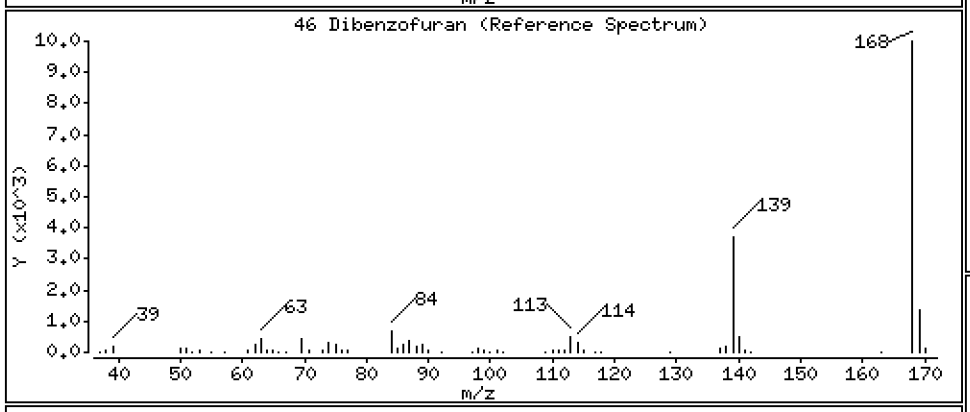
Column diameter: 0.25

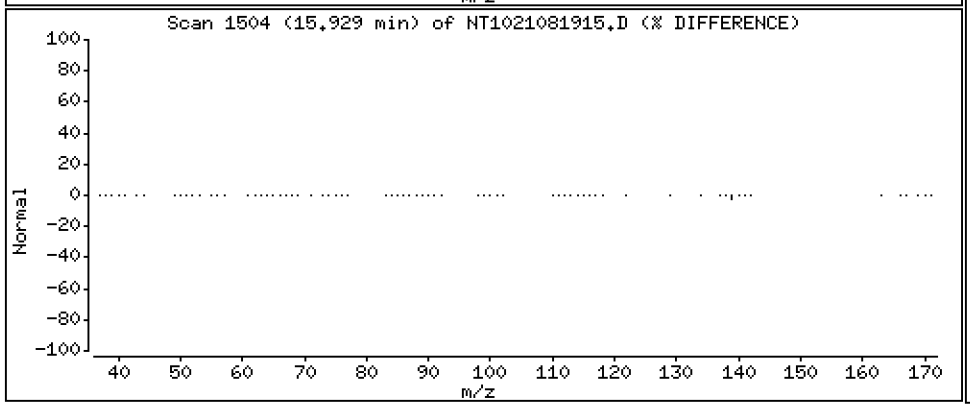
46 Dibenzofuran

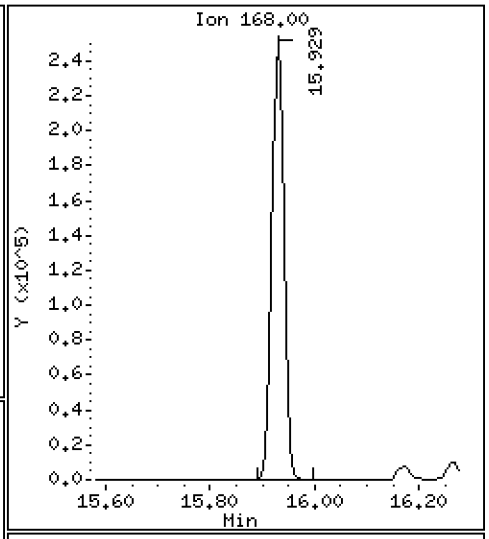
Concentration: 4.691 ug/mL

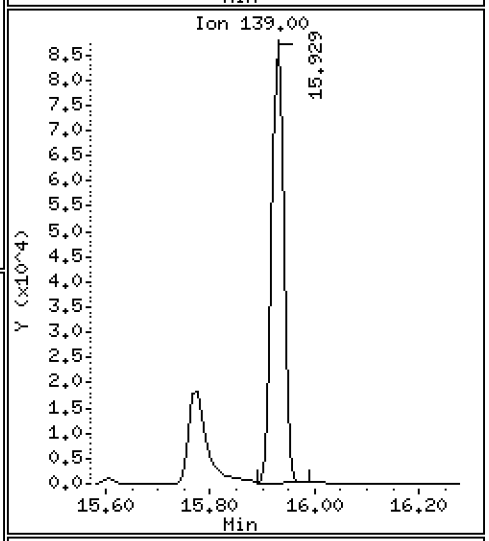


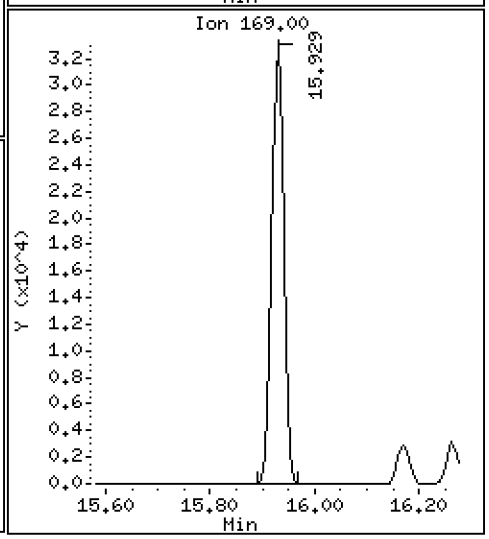












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

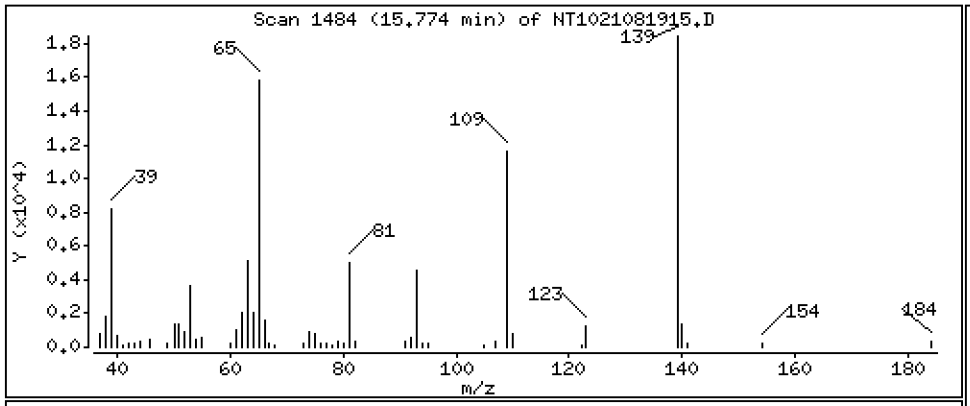
Operator: VTS

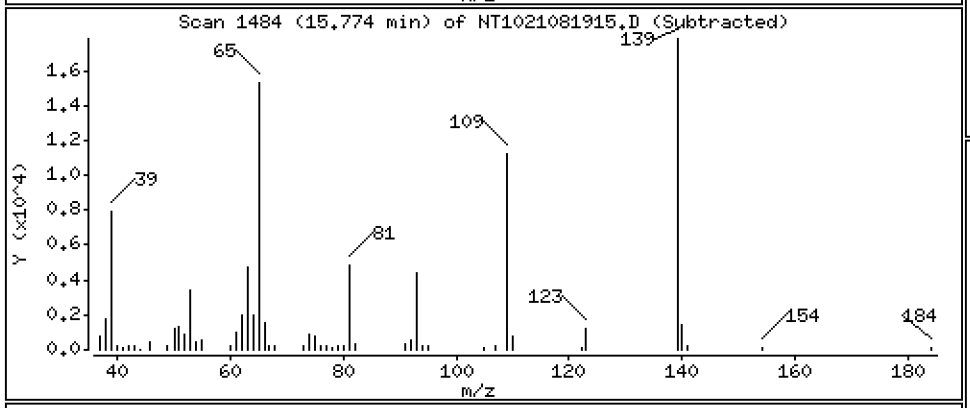
Column phase: ZB-5msi

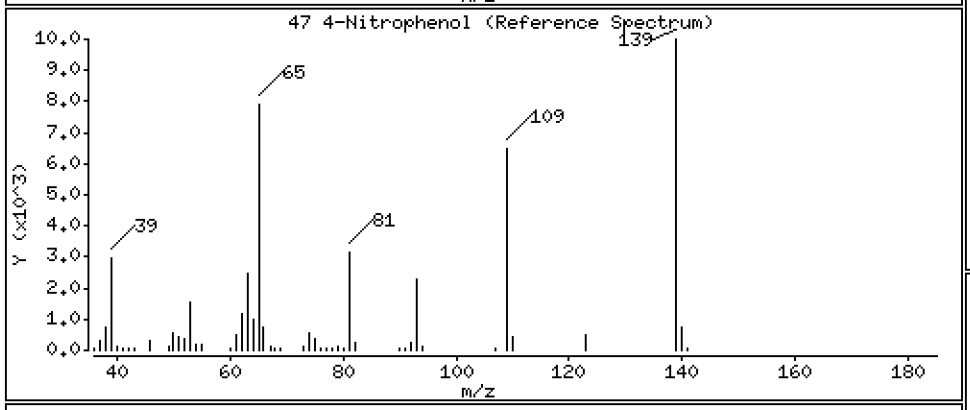
Column diameter: 0.25

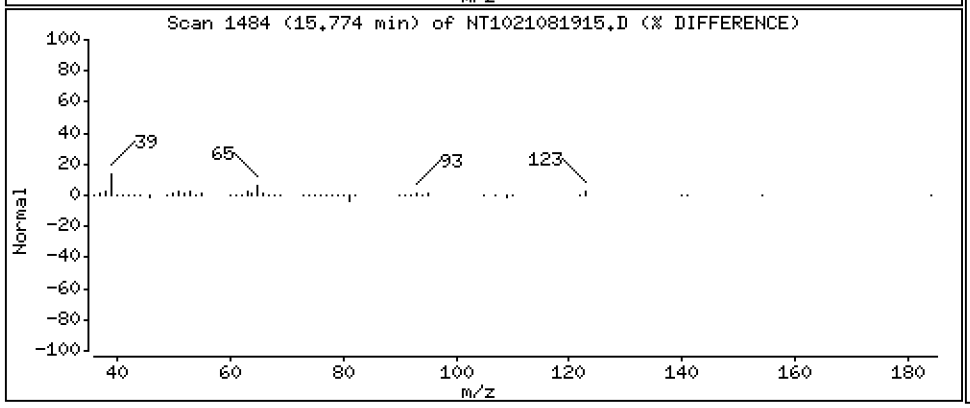
47 4-Nitrophenol

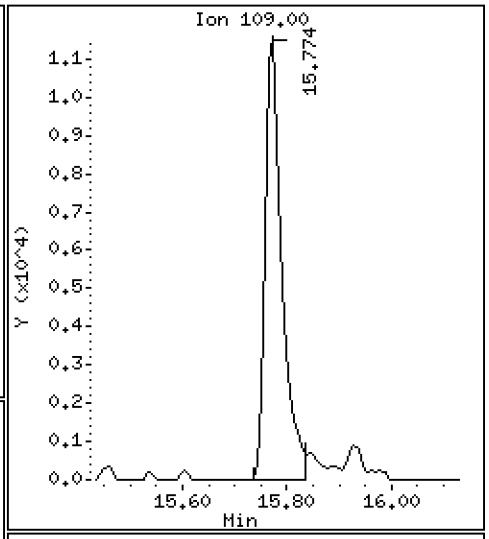
Concentration: 4.018 ug/mL

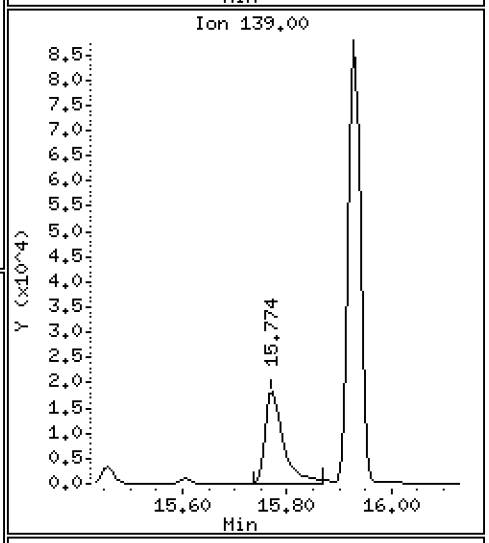


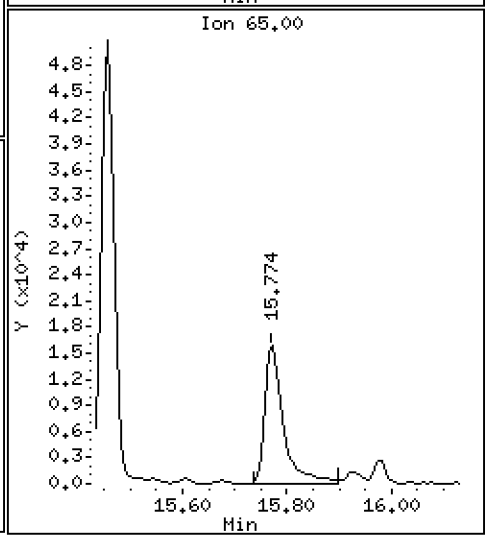












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

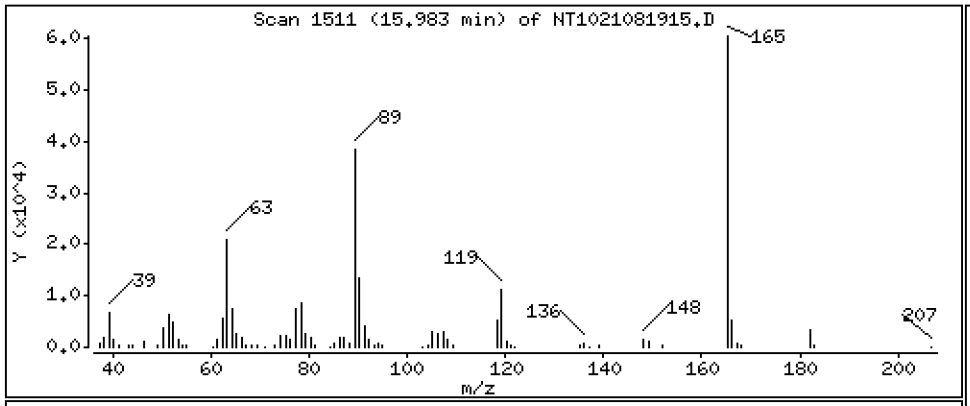
Operator: VTS

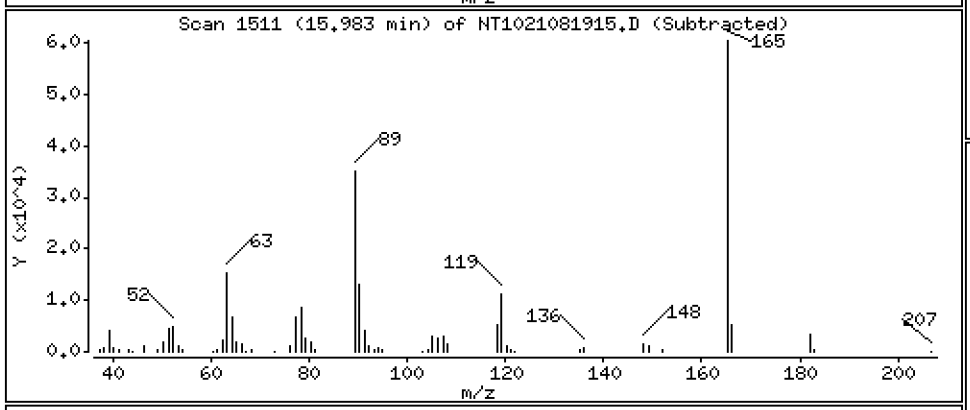
Column phase: ZB-5msi

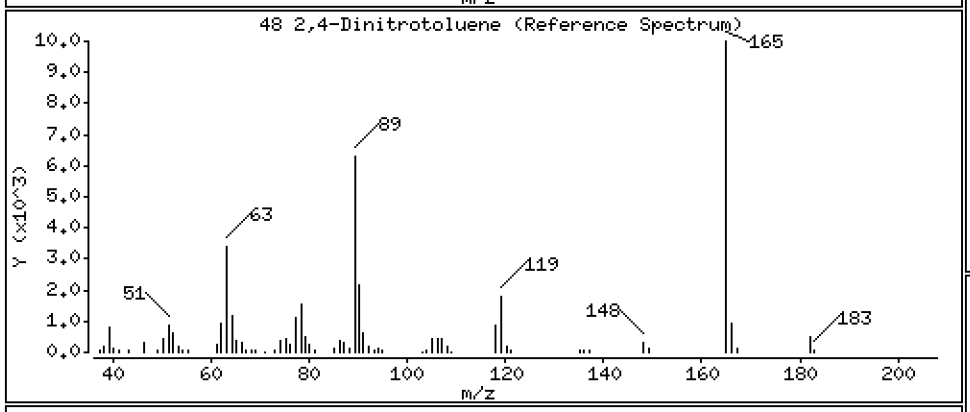
Column diameter: 0.25

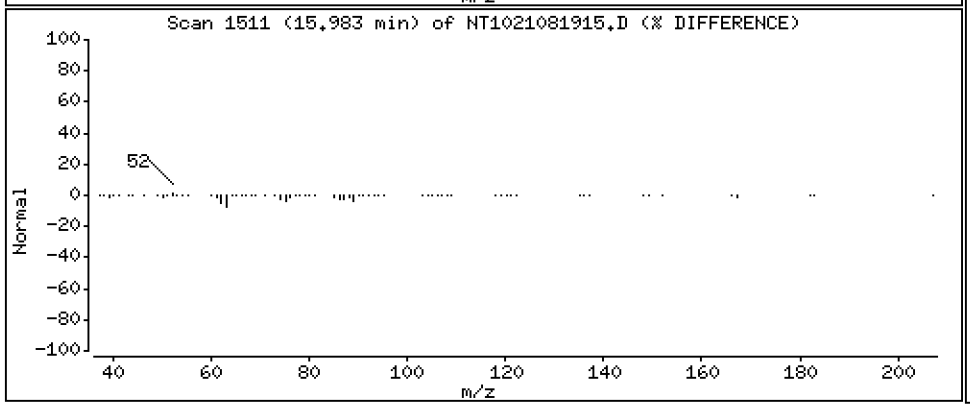
48 2,4-Dinitrotoluene

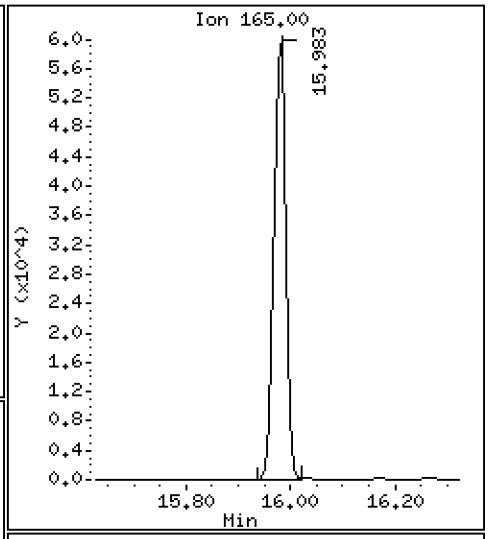
Concentration: 5.106 ug/mL

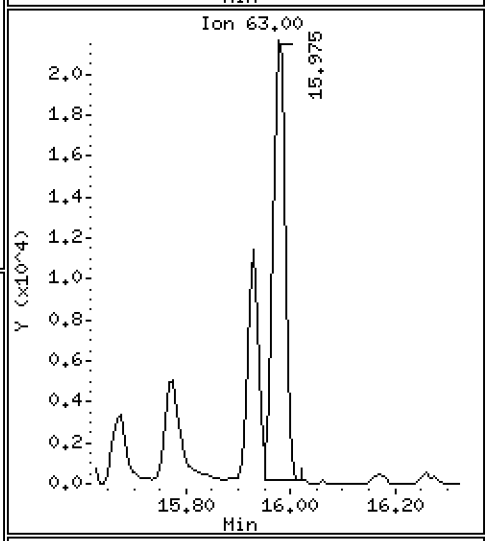


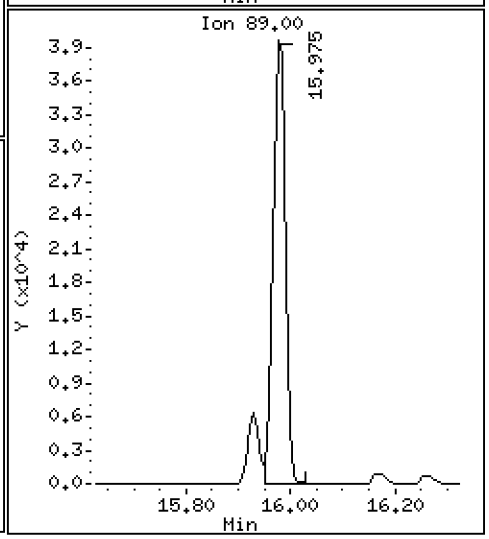












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

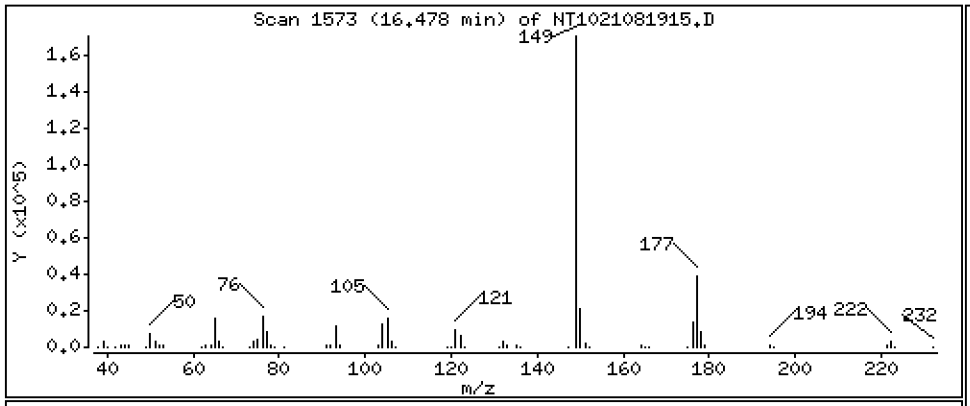
Operator: VTS

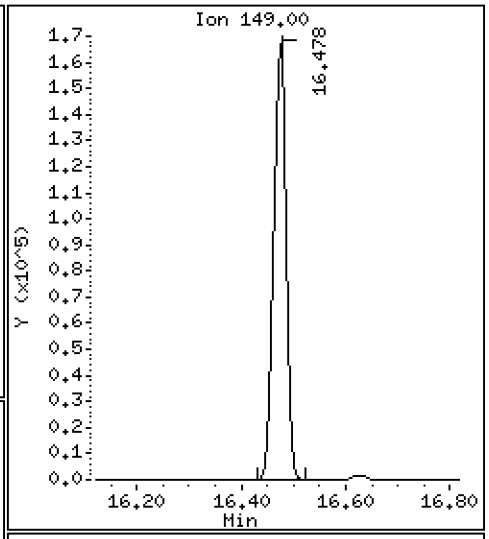
Column phase: ZB-5msi

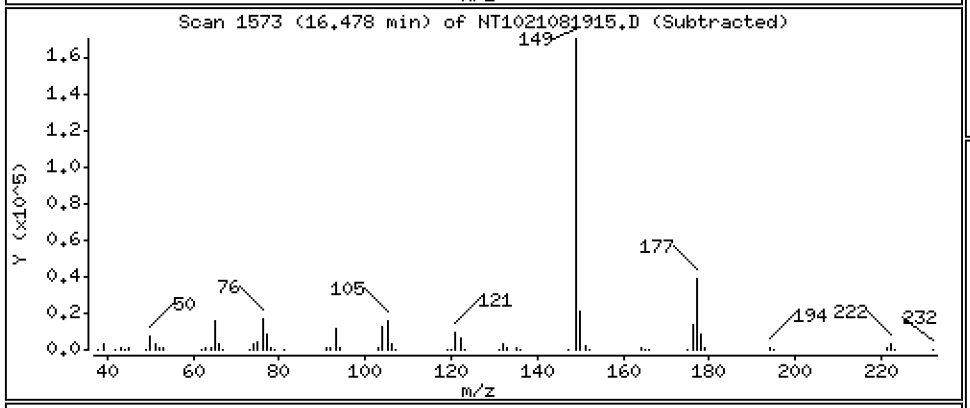
Column diameter: 0.25

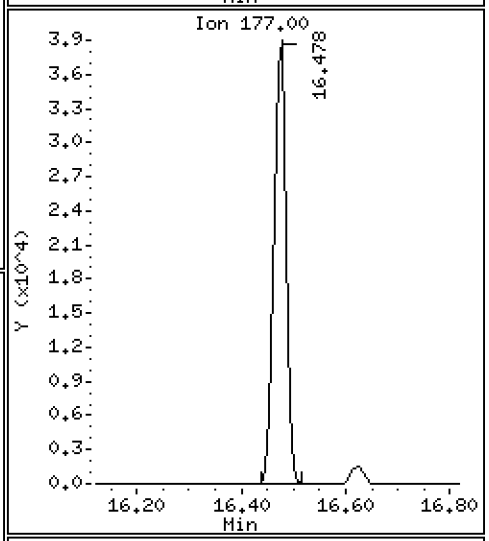
50 Diethylphthalate

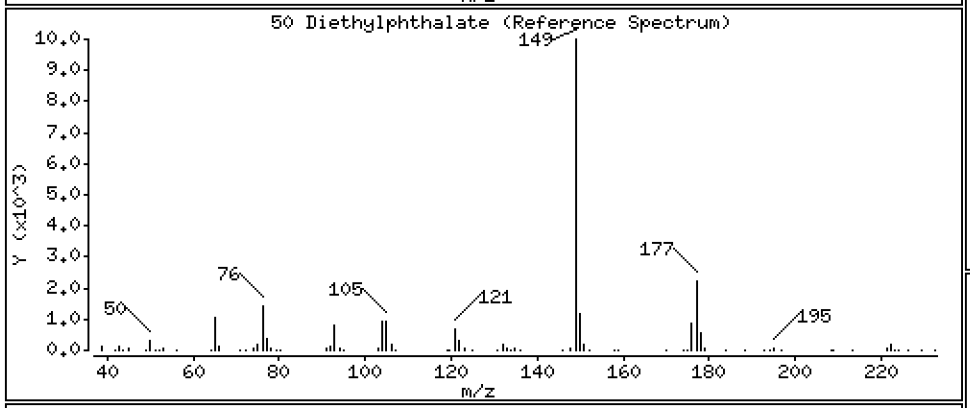
Concentration: 5.096 ug/mL

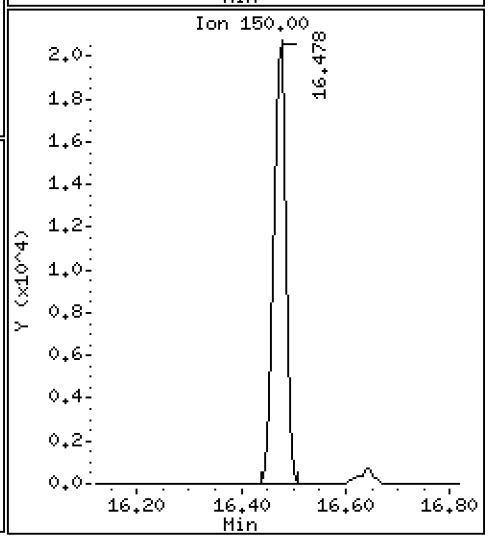


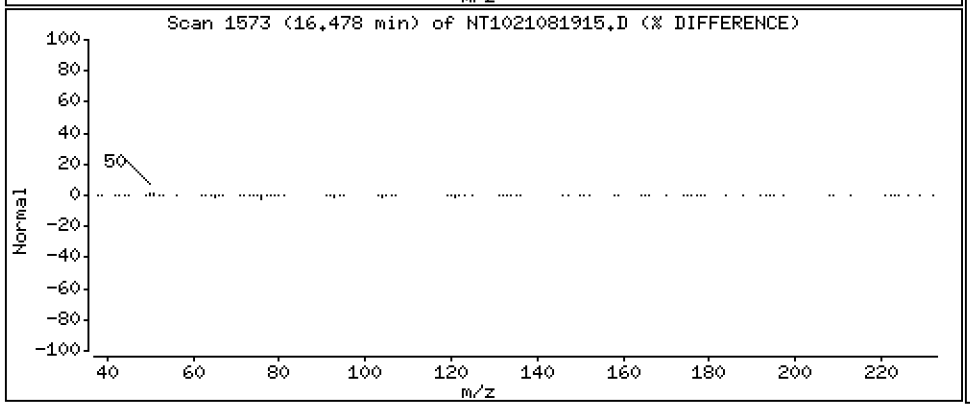












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

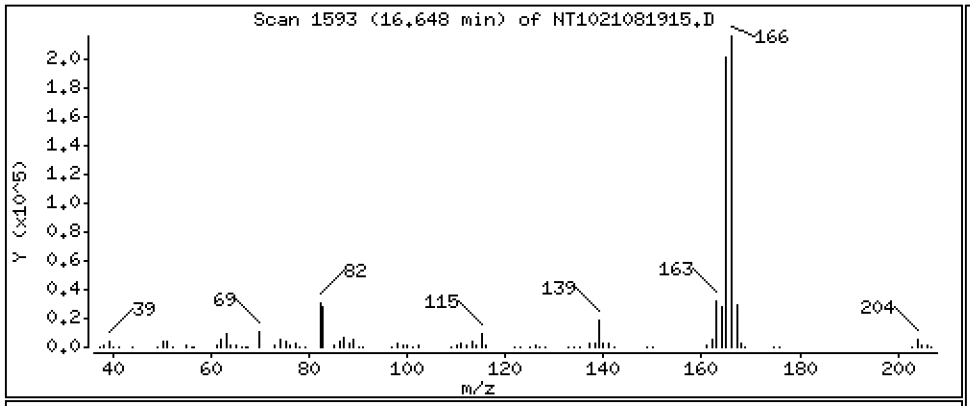
Operator: VTS

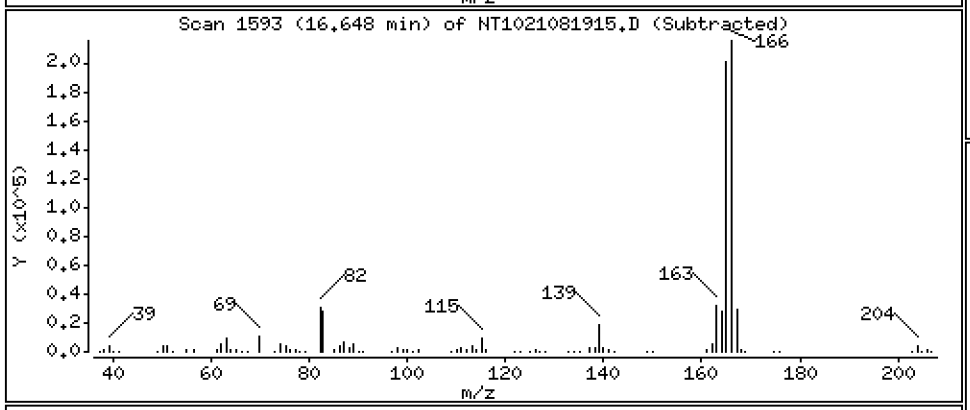
Column phase: ZB-5msi

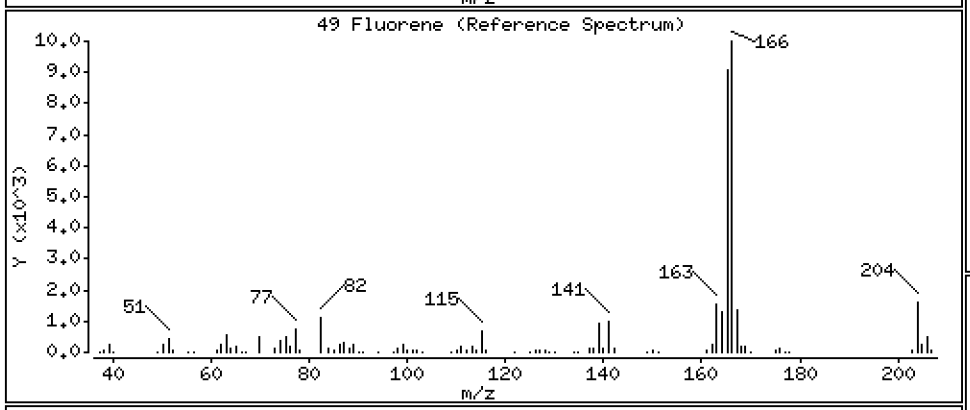
Column diameter: 0.25

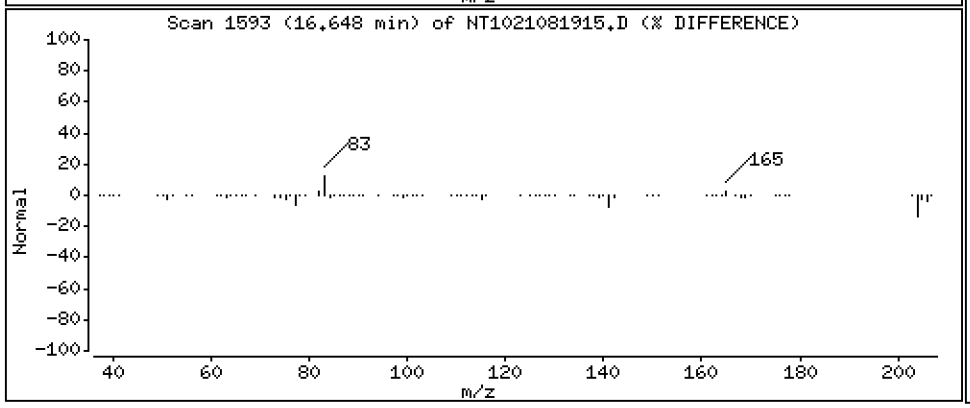
49 Fluorene

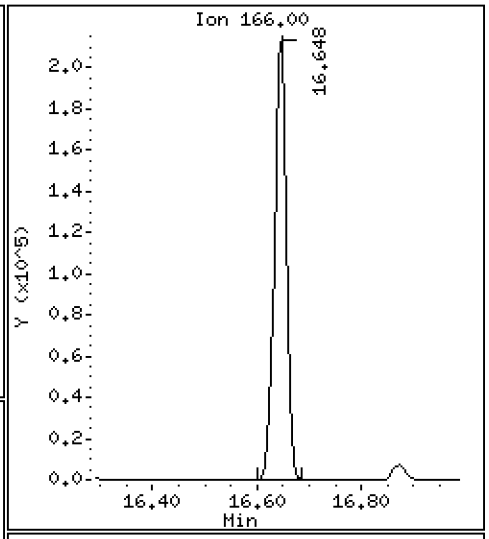
Concentration: 4.723 ug/mL

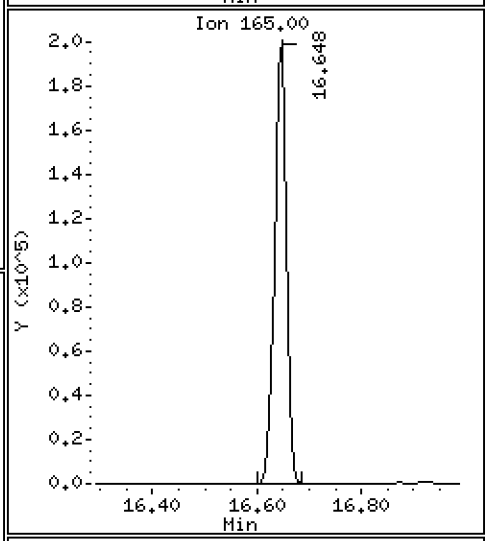


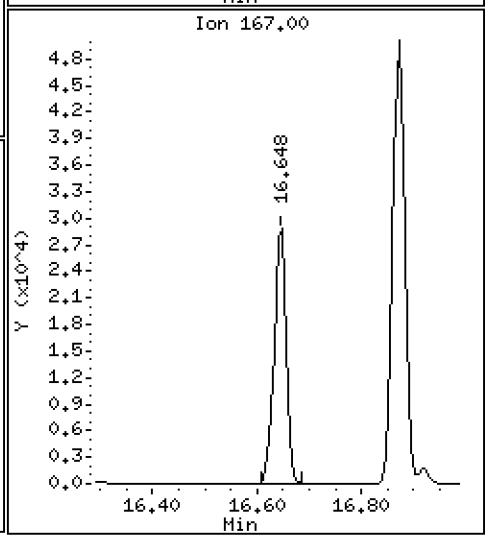












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

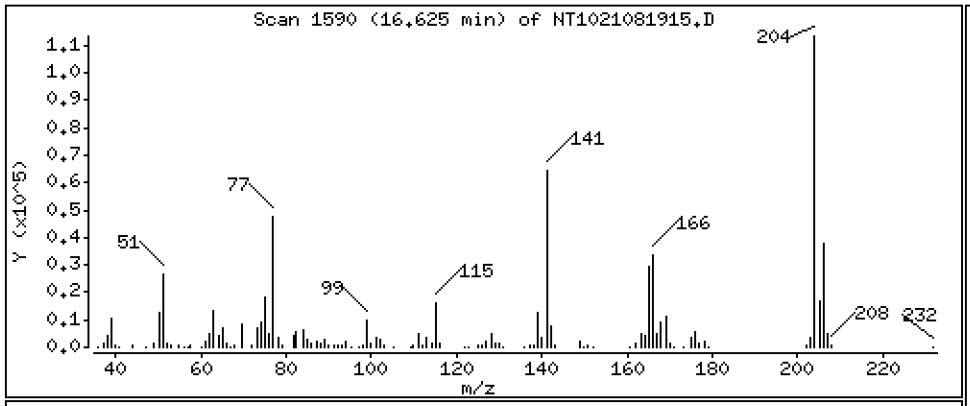
Operator: VTS

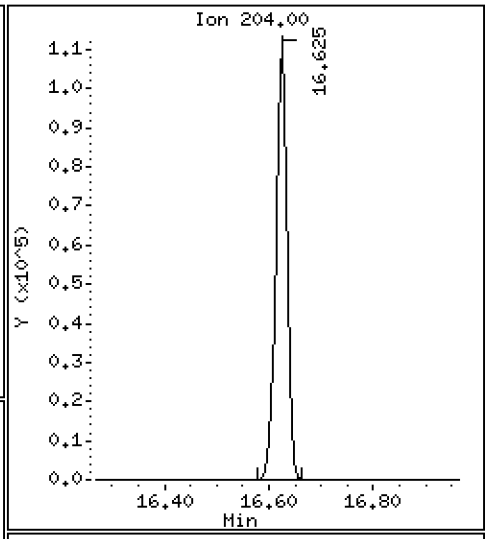
Column phase: ZB-5msi

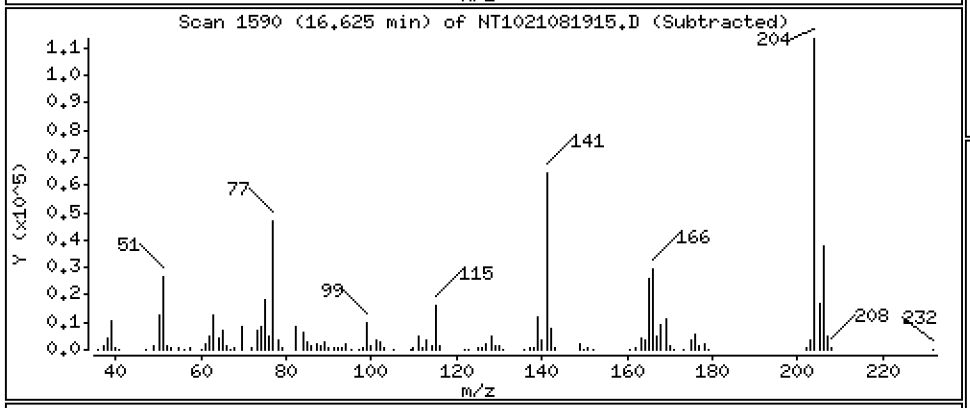
Column diameter: 0.25

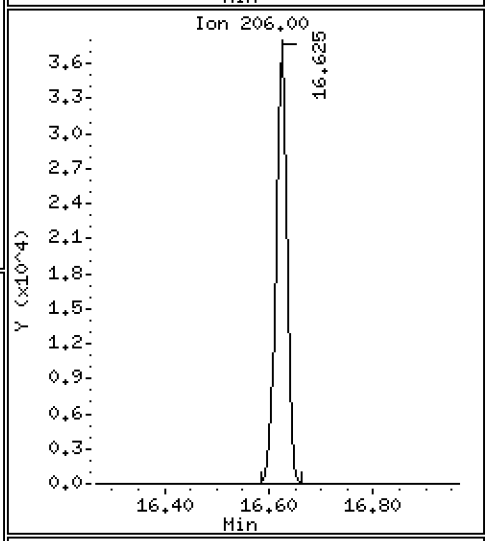
51 4-Chlorophenyl-phenylether

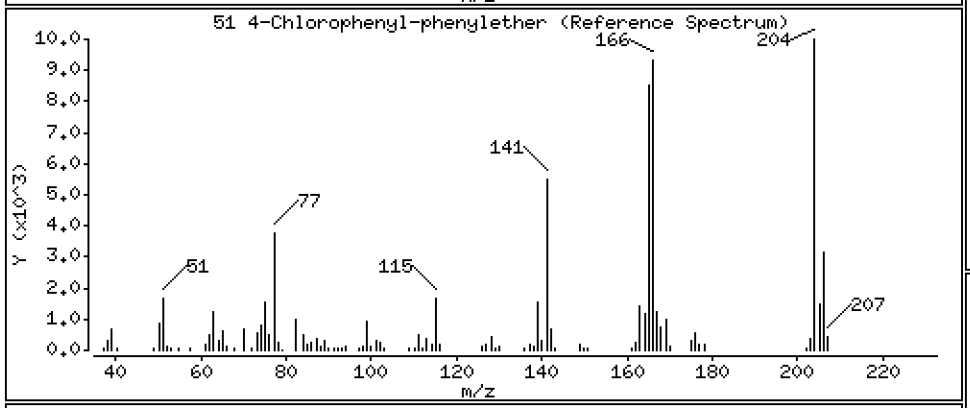
Concentration: 5.187 ug/mL

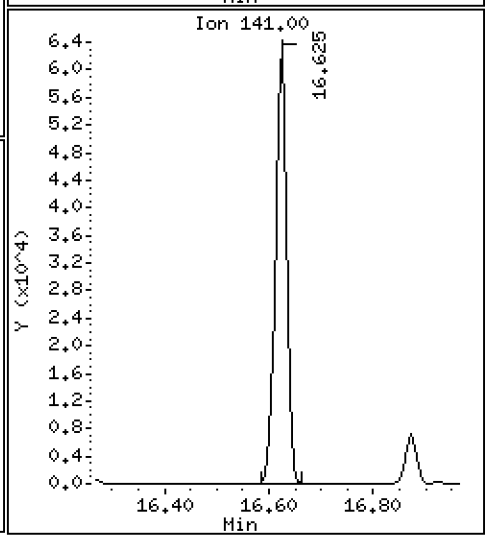


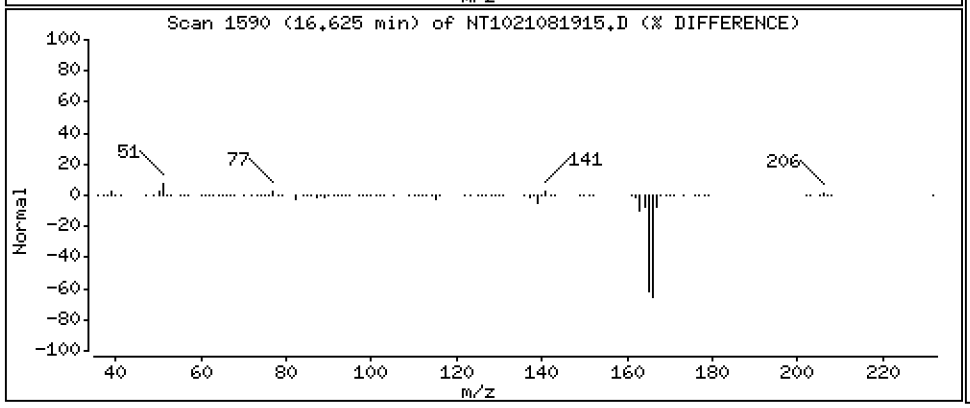












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

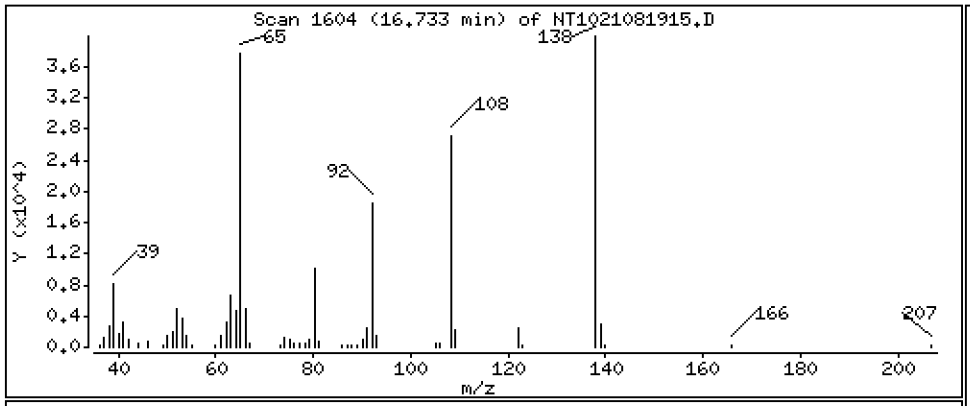
Operator: VTS

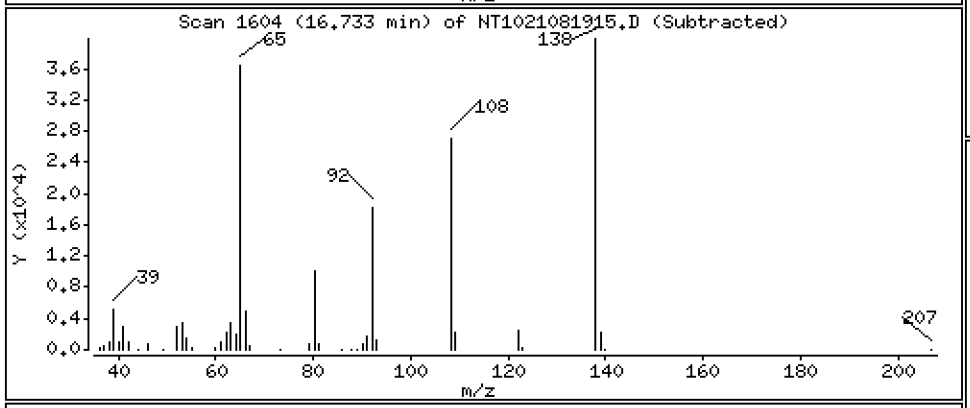
Column phase: ZB-5msi

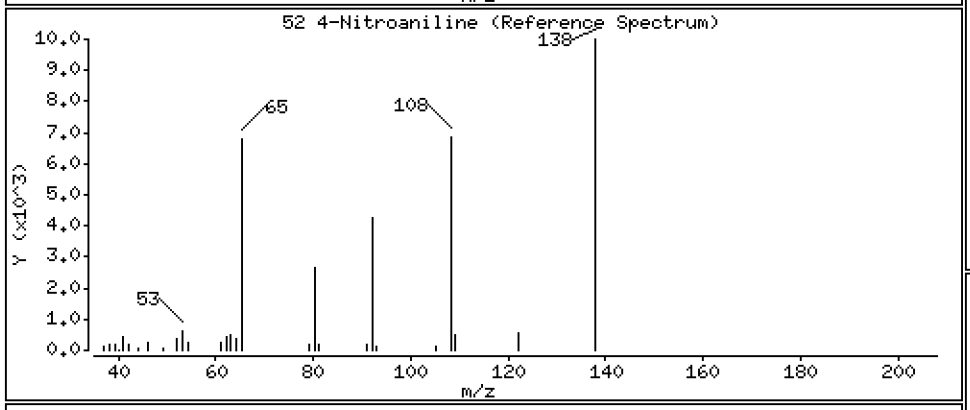
Column diameter: 0.25

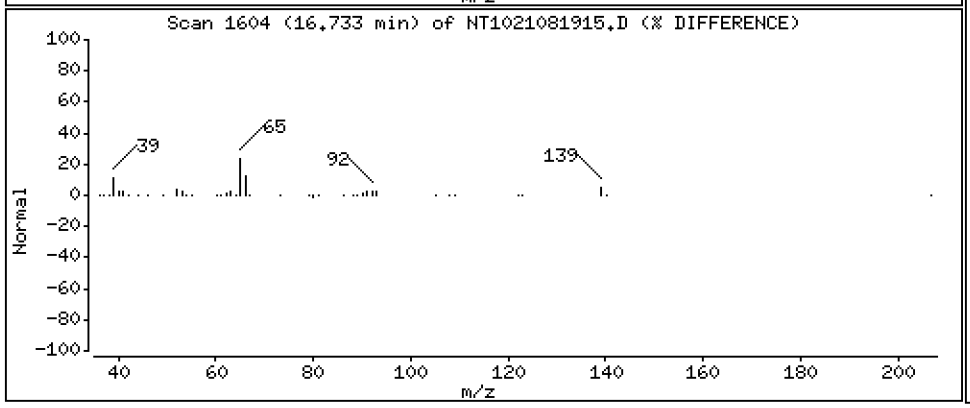
52 4-Nitroaniline

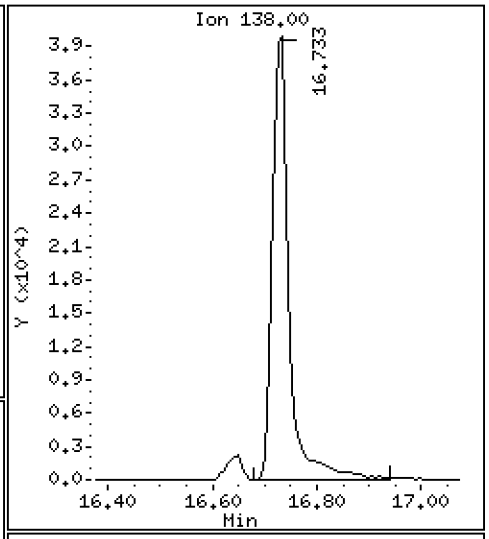
Concentration: 4.788 ug/mL

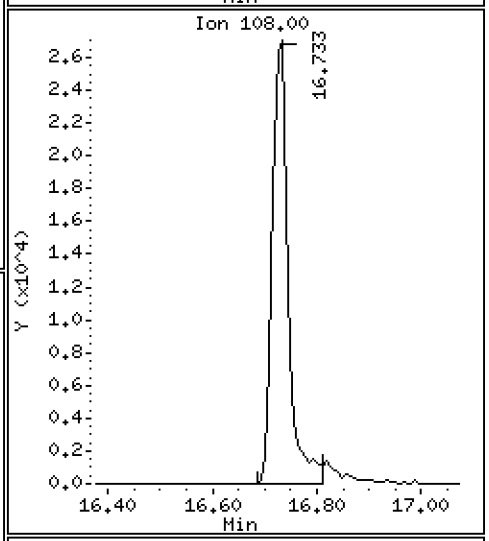


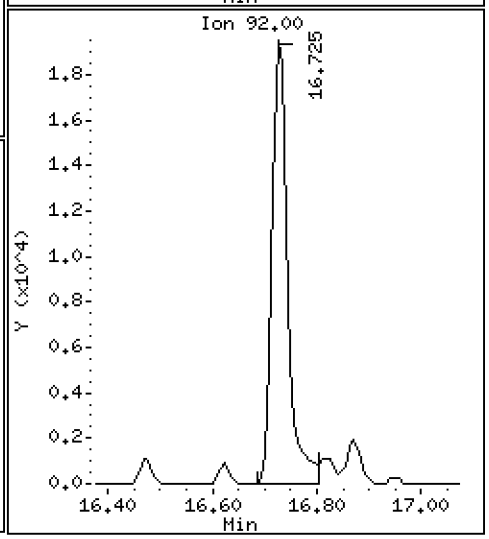












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

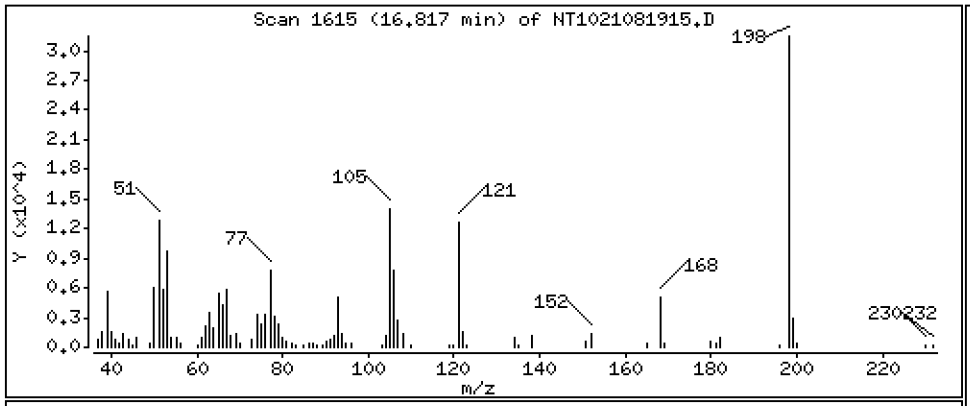
Operator: VTS

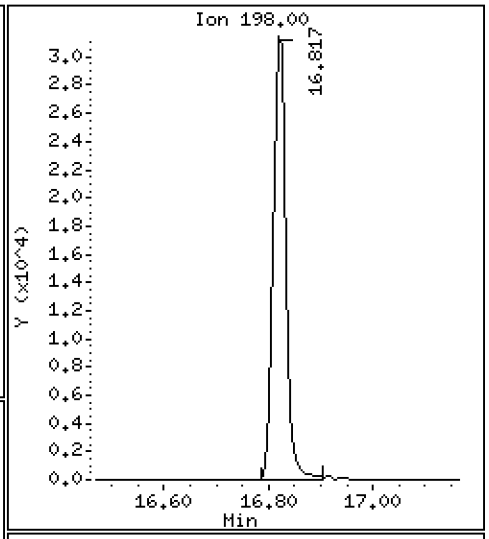
Column phase: ZB-5msi

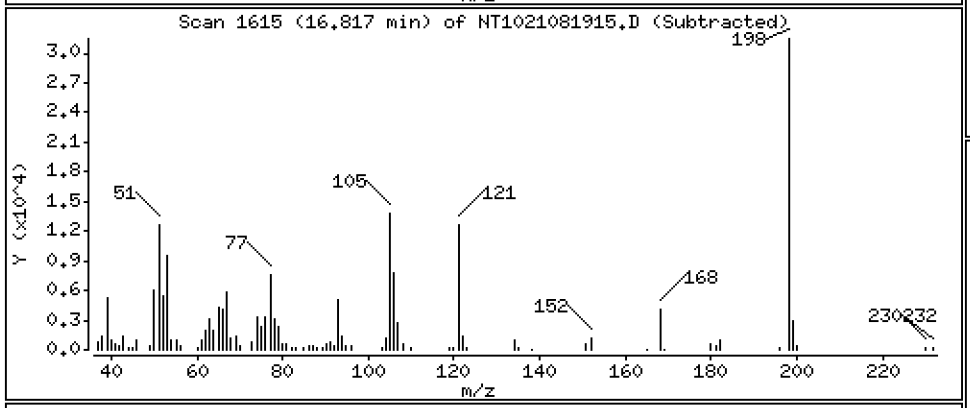
Column diameter: 0.25

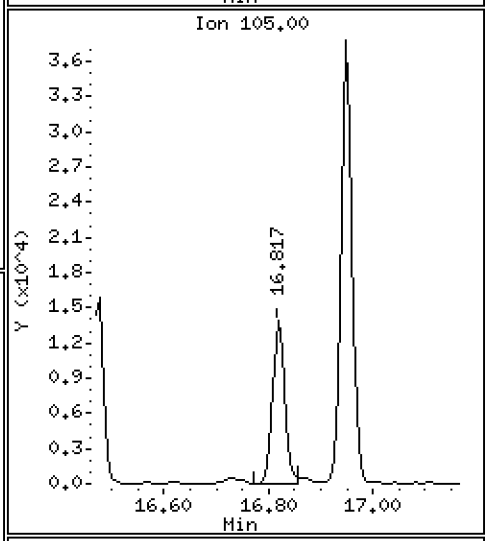
53 4,6-Dinitro-2-methylphenol

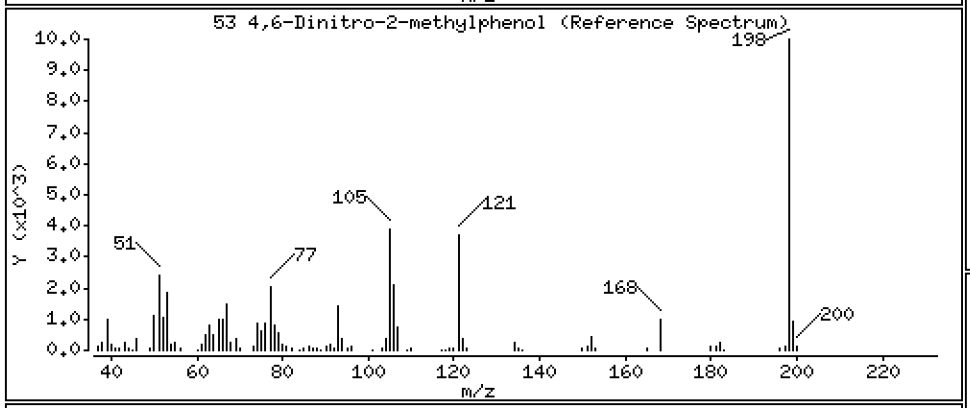
Concentration: 3.885 ug/mL

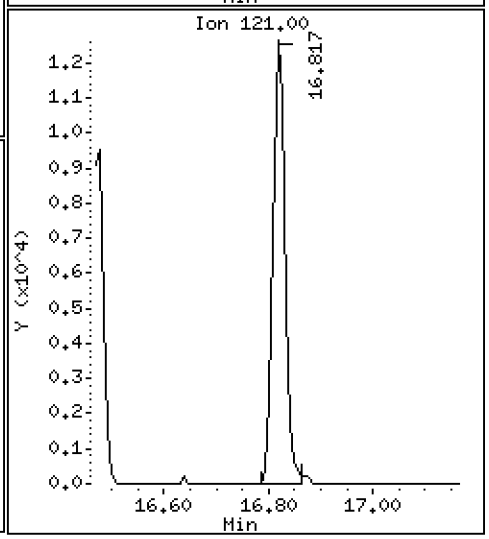


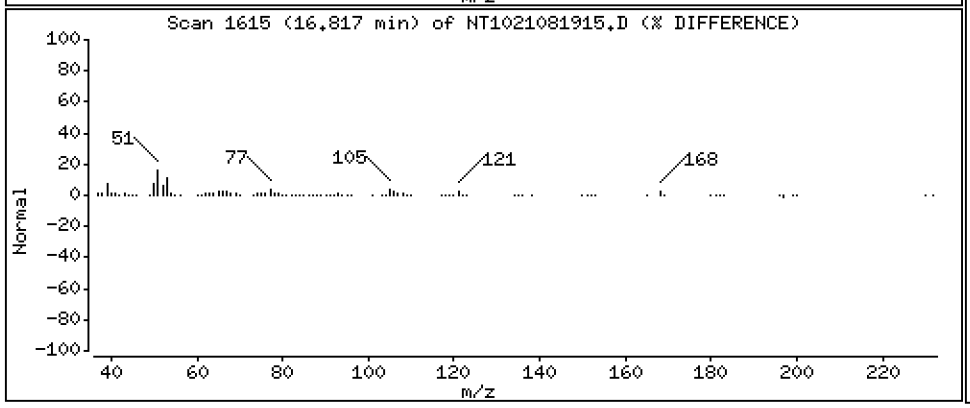












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

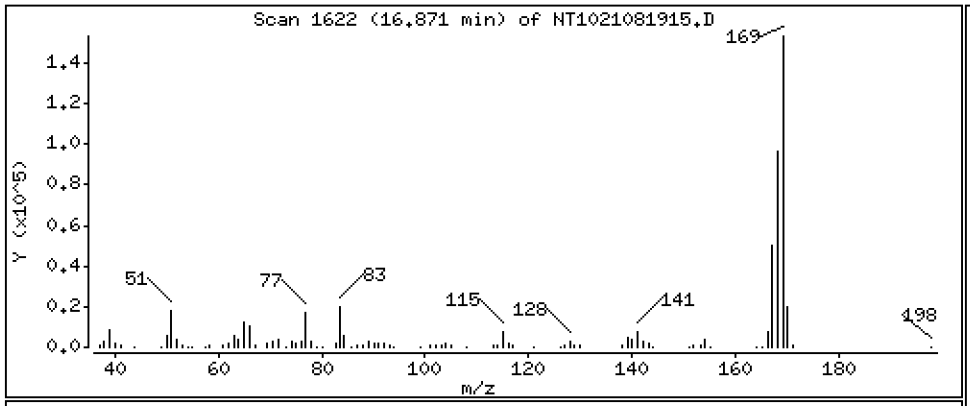
Operator: VTS

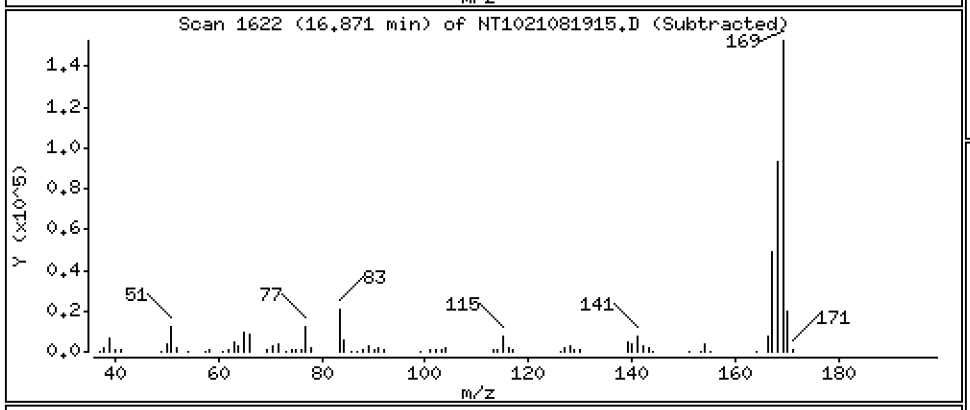
Column phase: ZB-5msi

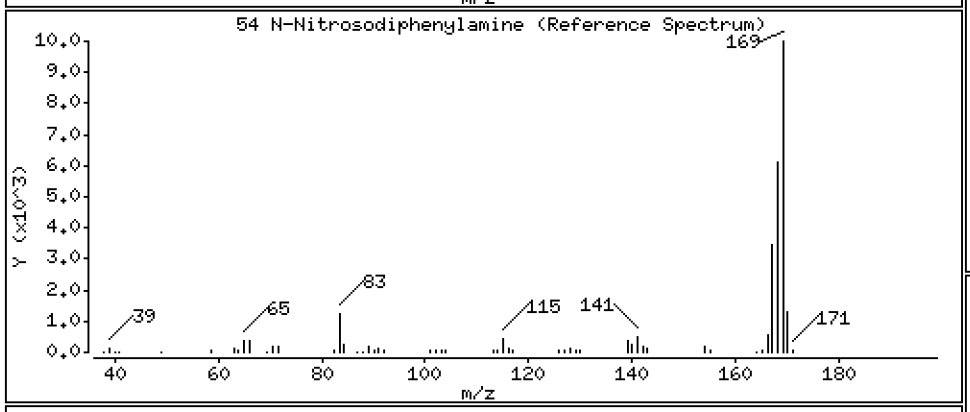
Column diameter: 0.25

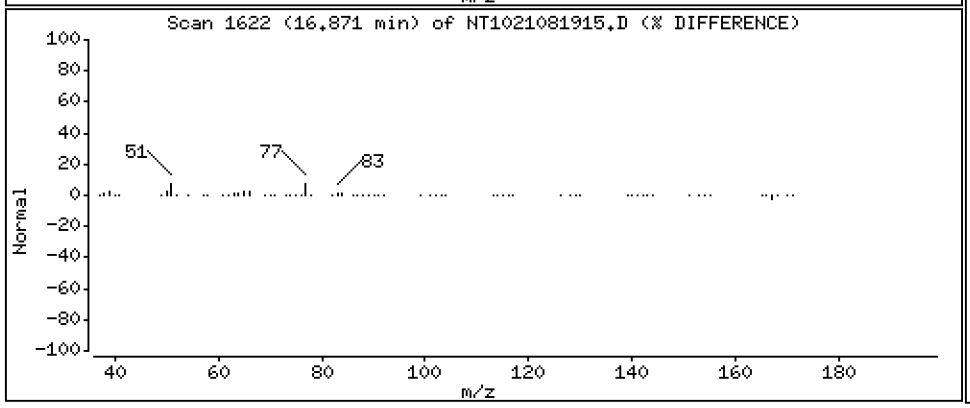
54 N-Nitrosodiphenylamine

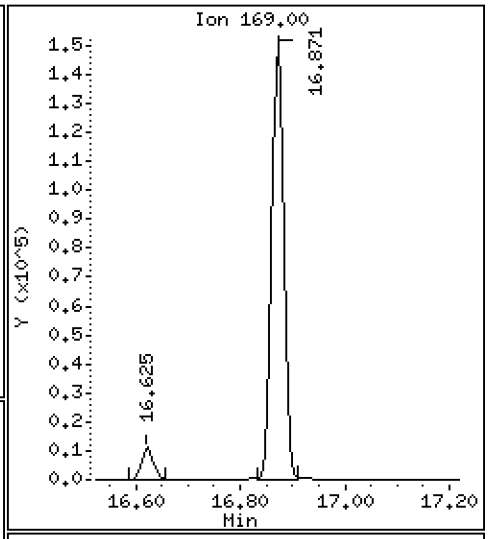
Concentration: 4.835 ug/mL

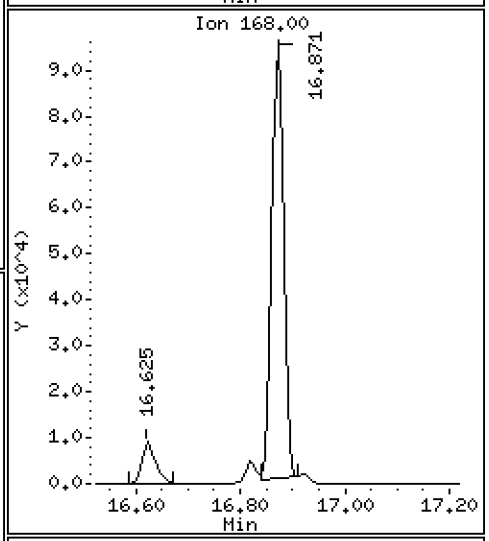


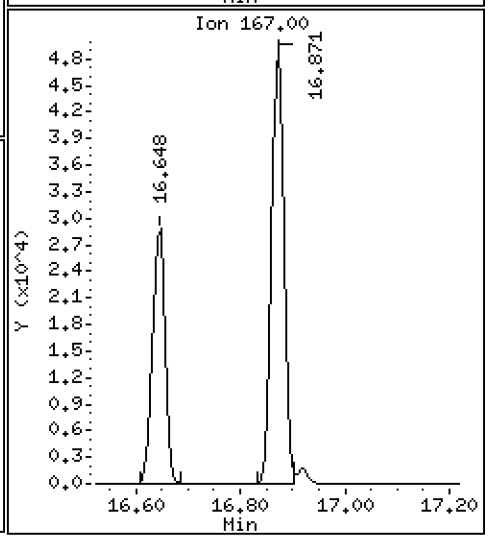












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

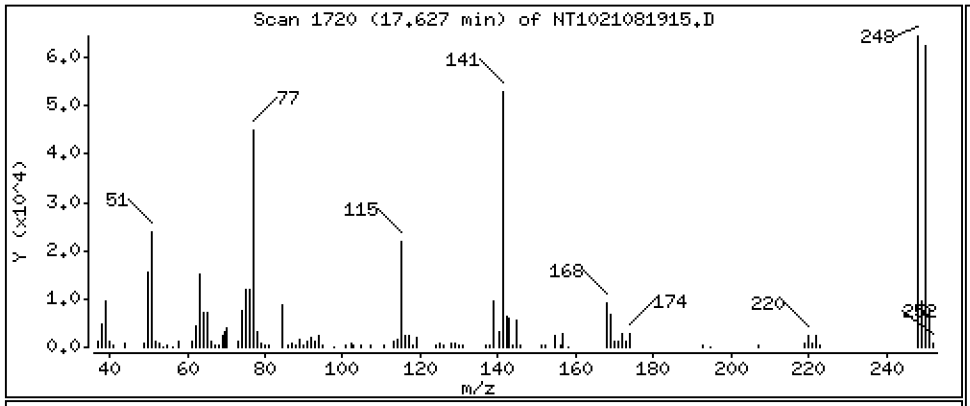
Operator: VTS

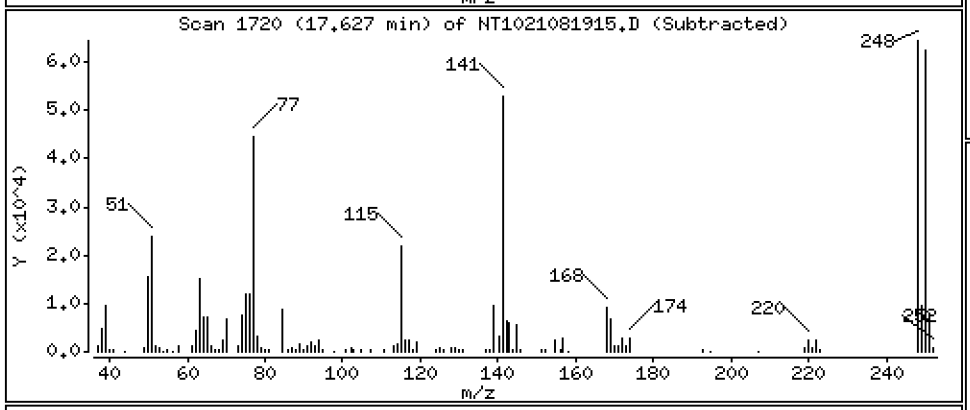
Column phase: ZB-5msi

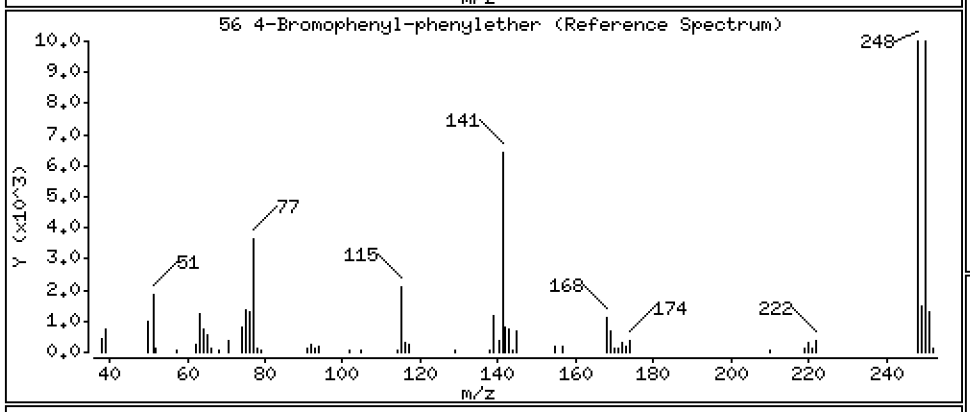
Column diameter: 0.25

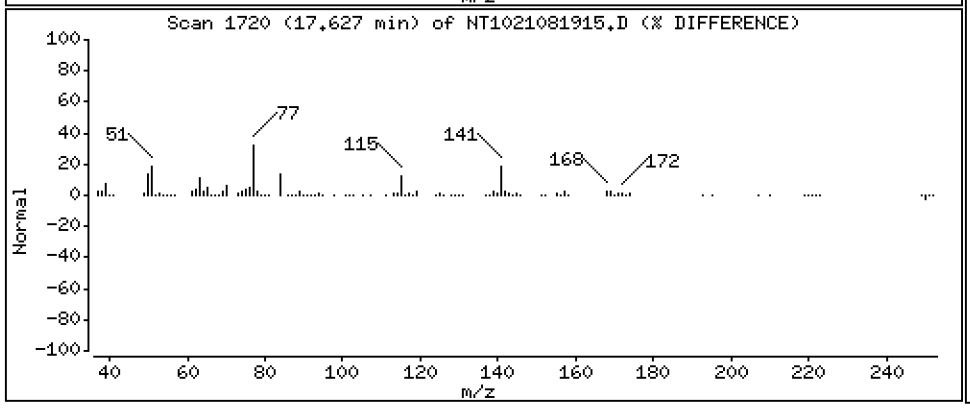
56 4-Bromophenyl-phenylether

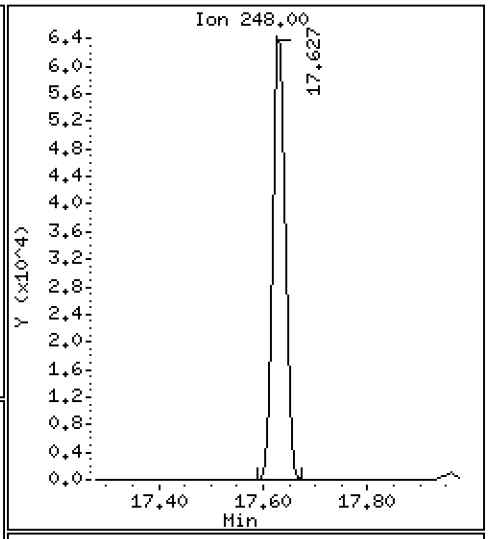
Concentration: 5.399 ug/mL

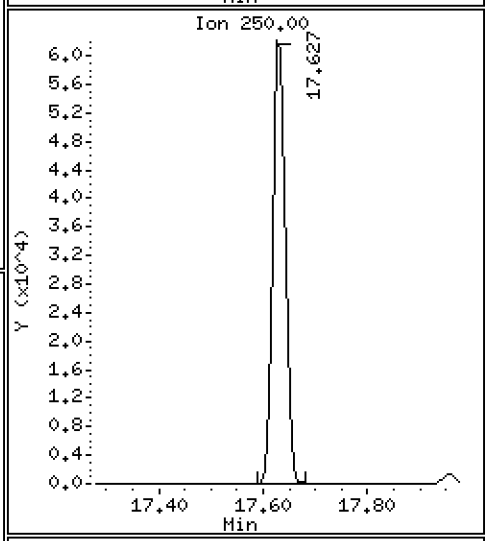


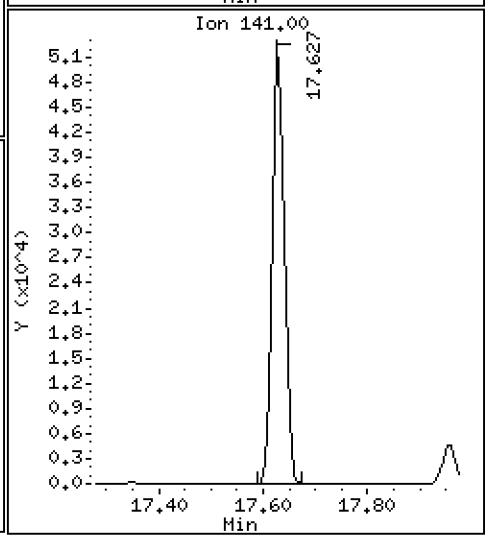












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

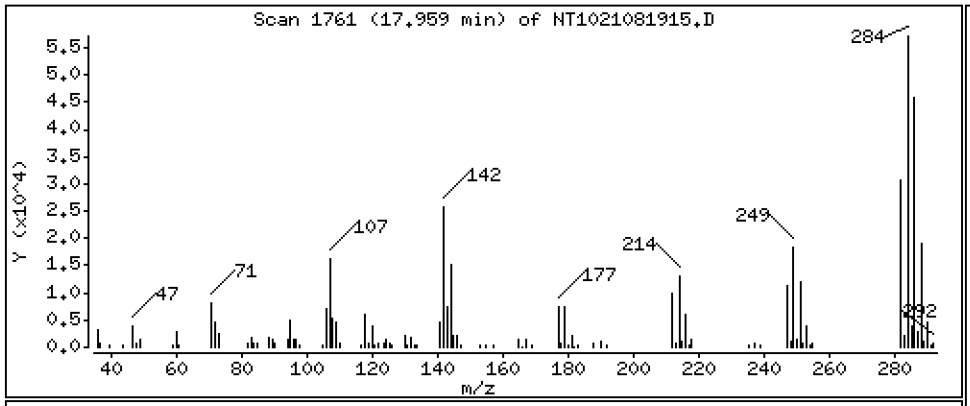
Operator: VTS

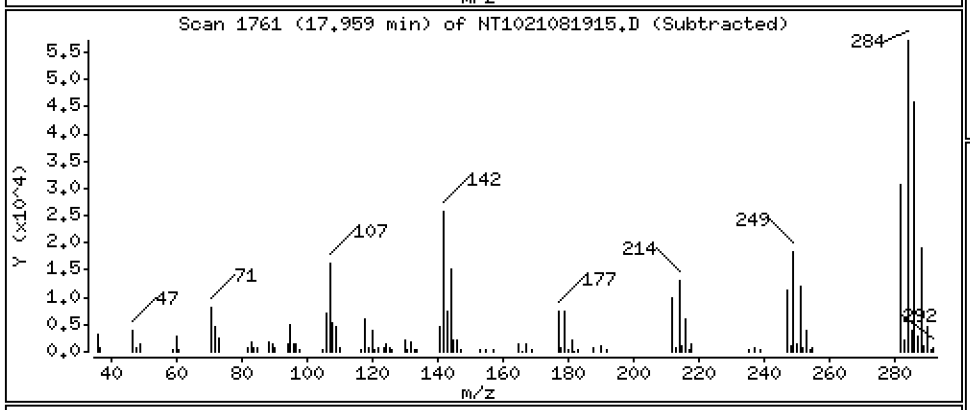
Column phase: ZB-5msi

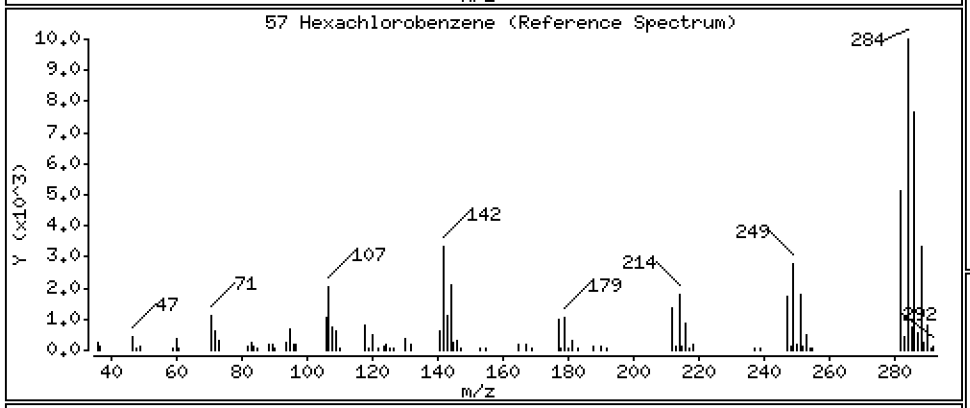
Column diameter: 0.25

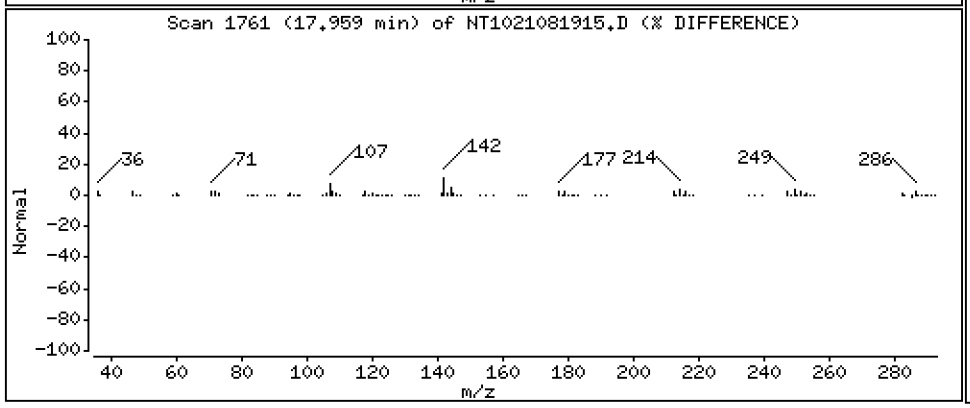
57 Hexachlorobenzene

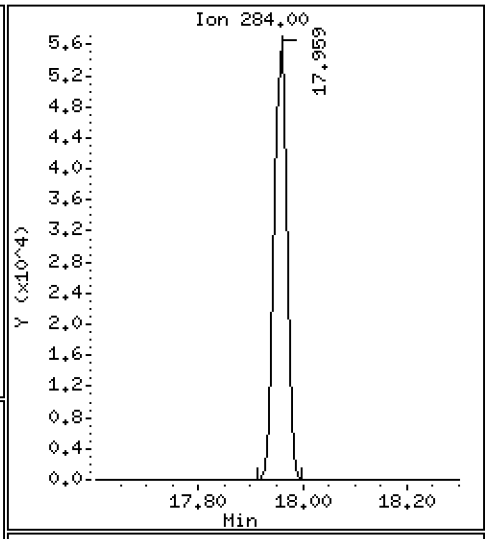
Concentration: 5.063 ug/mL

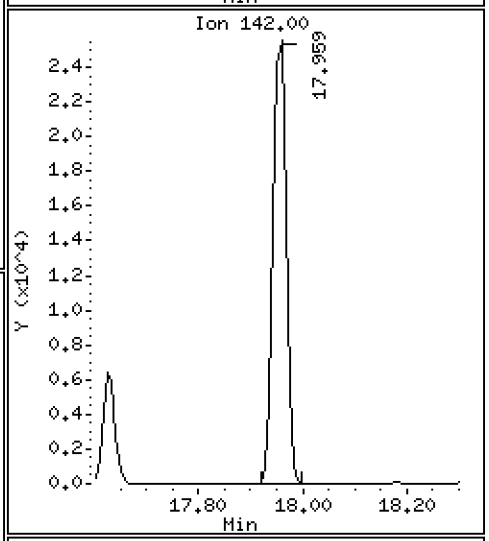


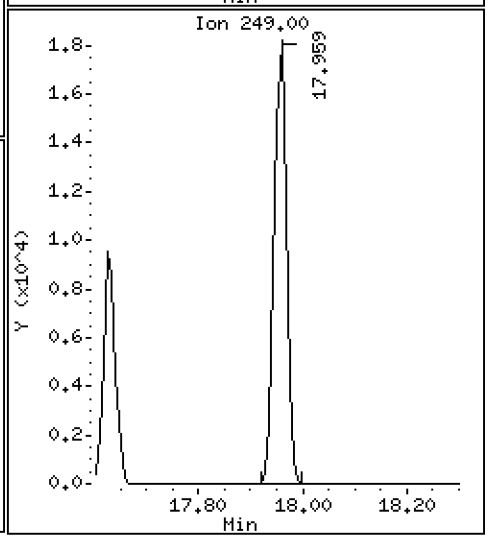












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

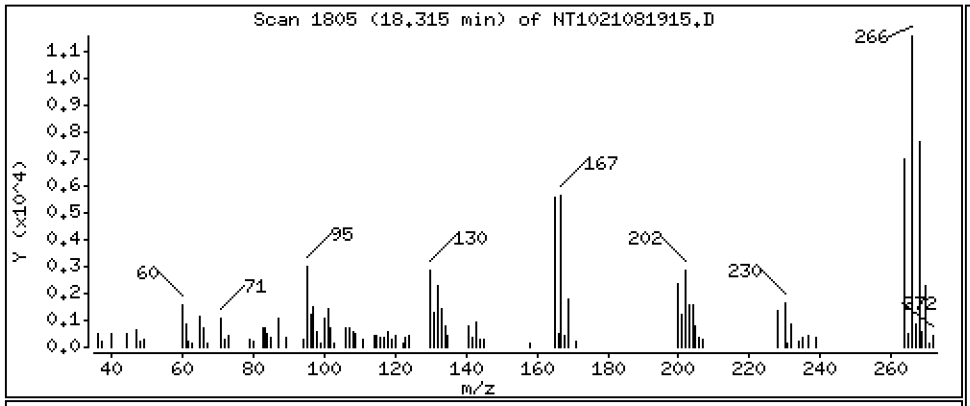
Operator: VTS

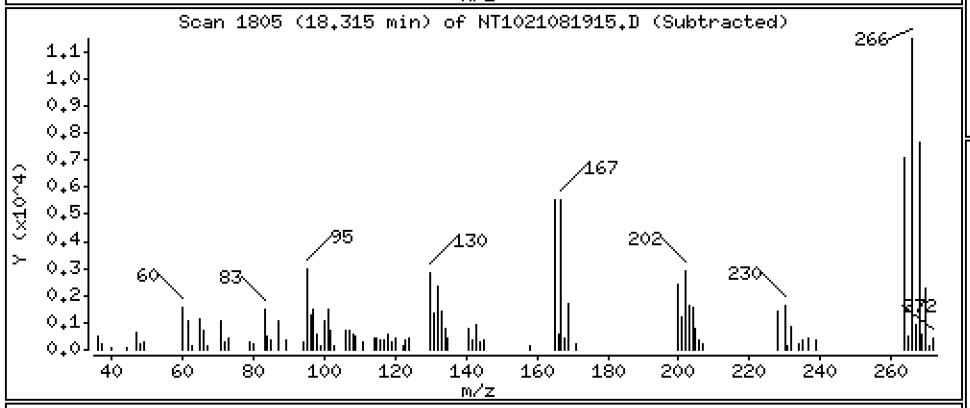
Column phase: ZB-5msi

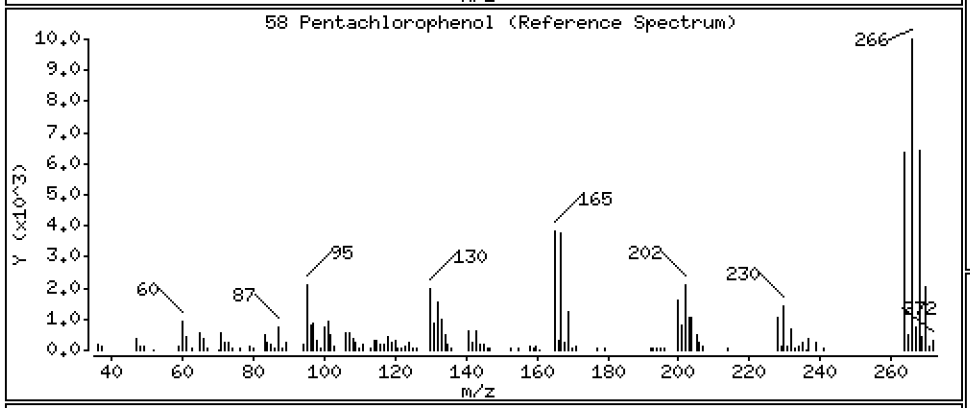
Column diameter: 0.25

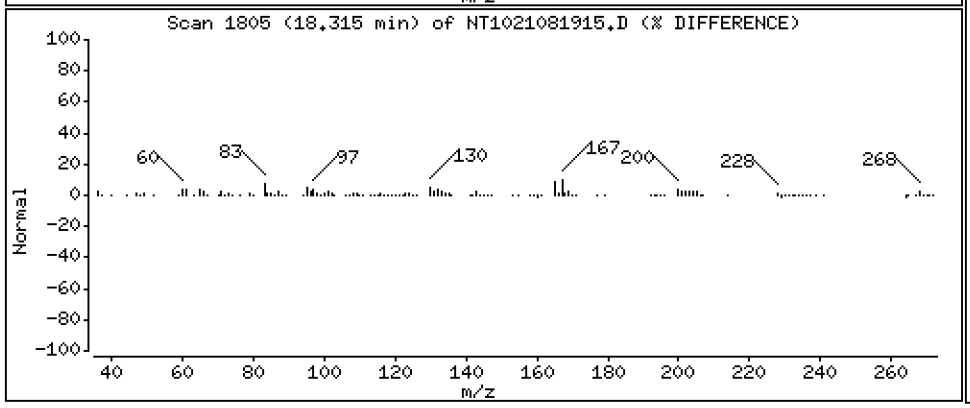
58 Pentachlorophenol

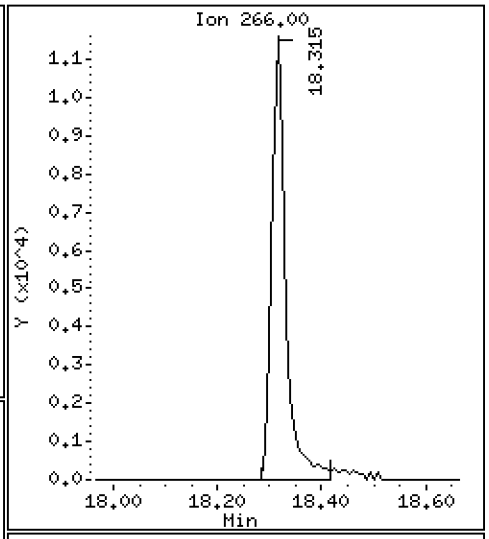
Concentration: 3.120 ug/mL

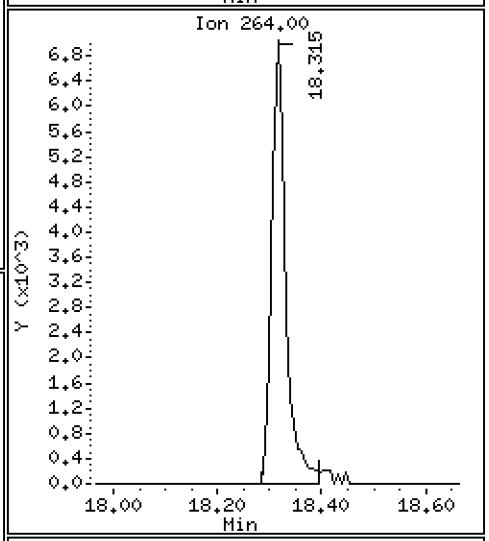


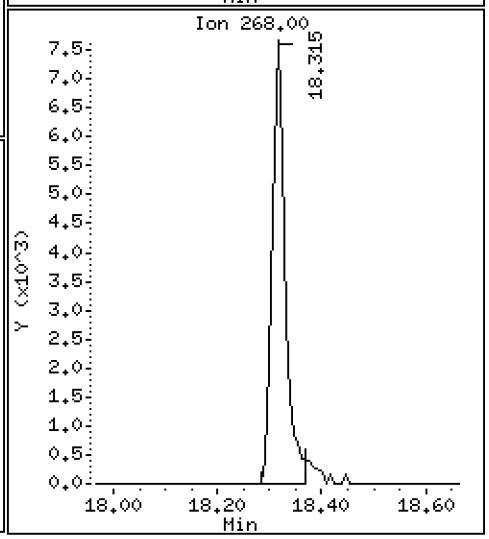












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

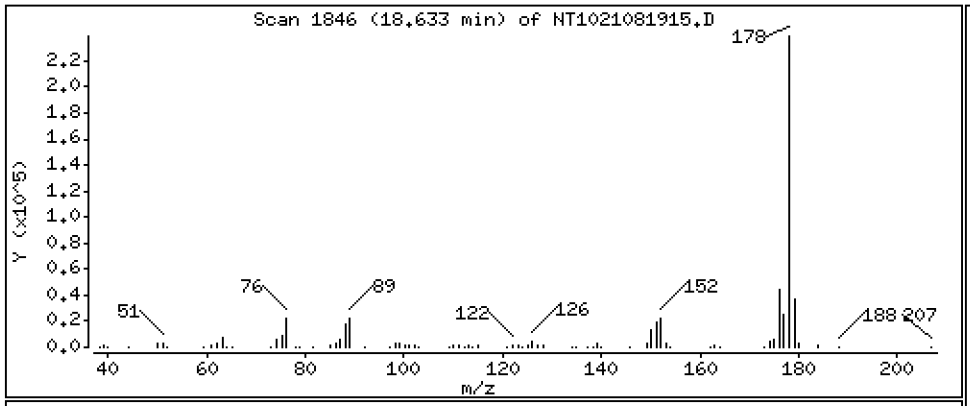
Operator: VTS

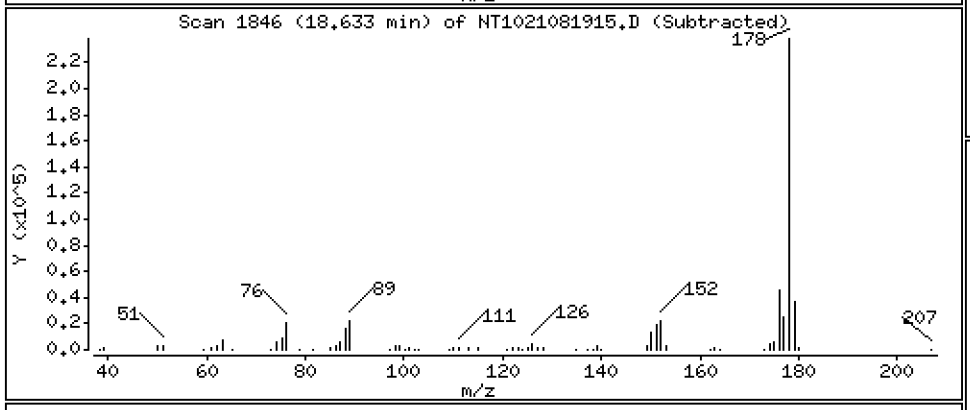
Column phase: ZB-5msi

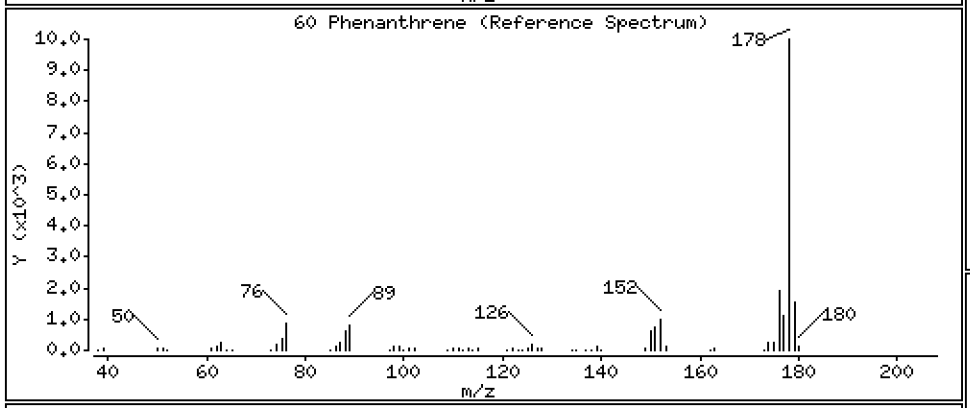
Column diameter: 0.25

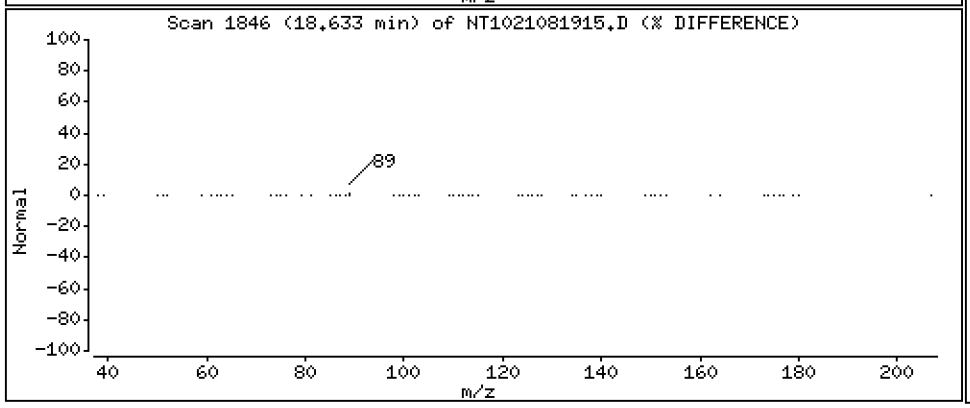
60 Phenanthrene

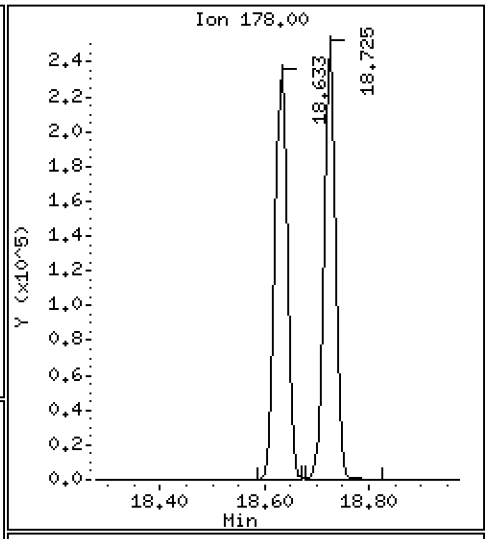
Concentration: 4.855 ug/mL

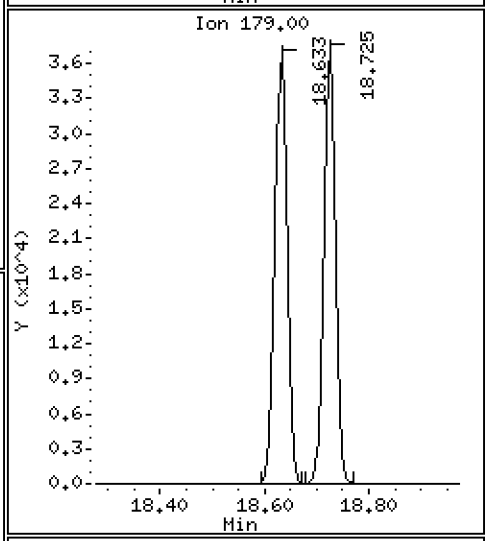


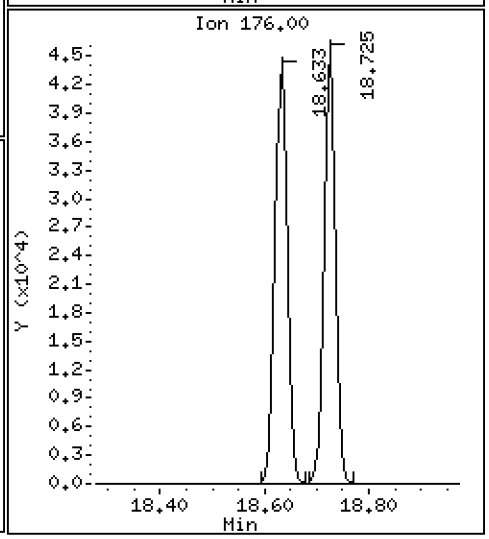












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

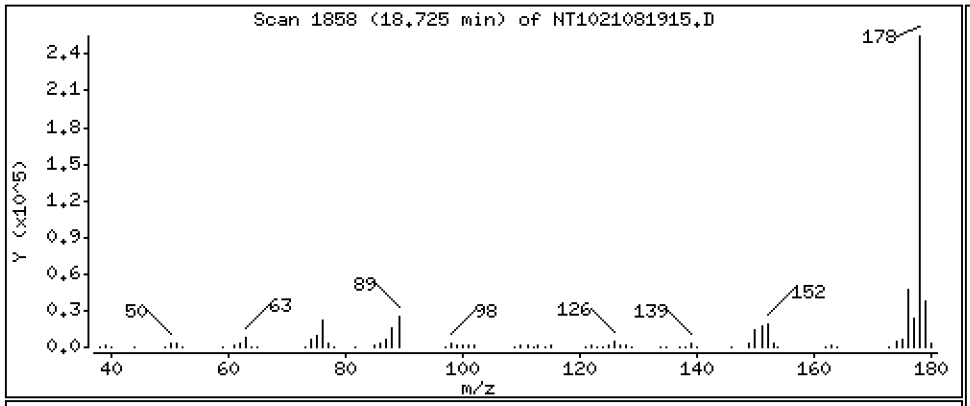
Operator: VTS

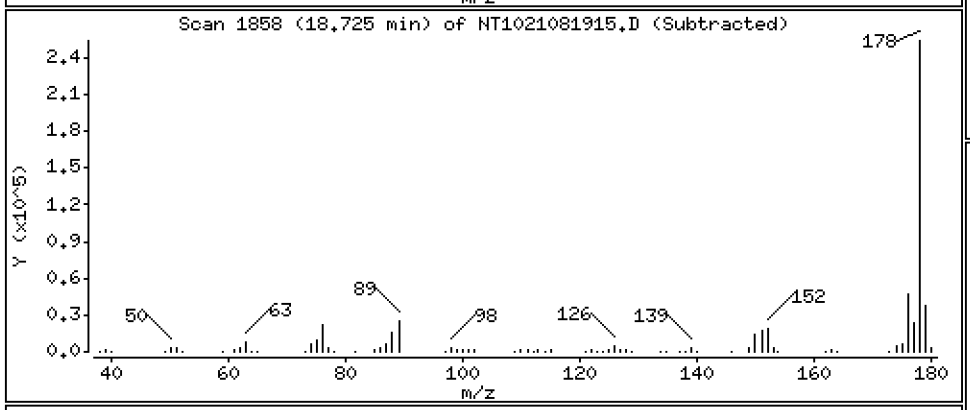
Column phase: ZB-5msi

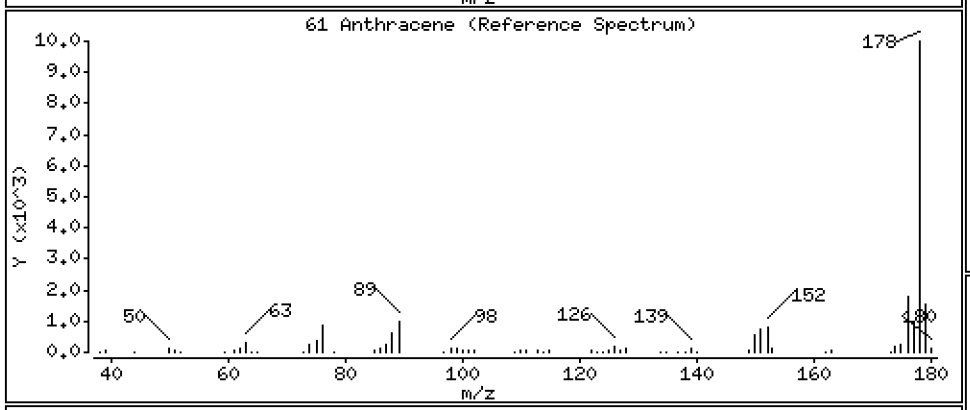
Column diameter: 0.25

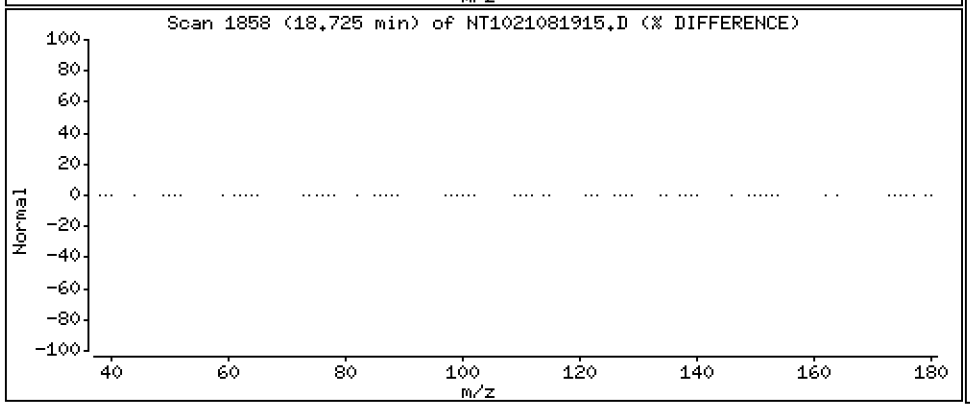
61 Anthracene

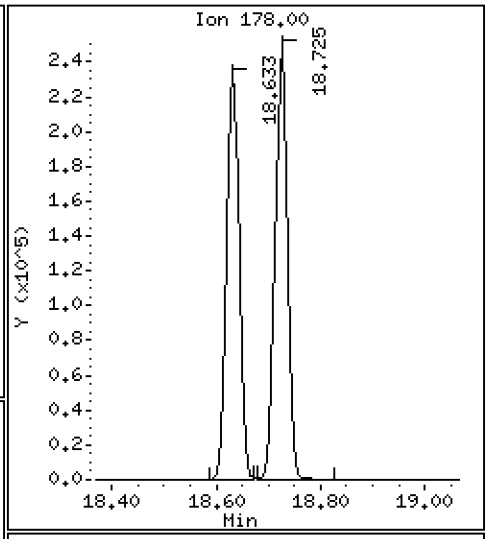
Concentration: 4.813 ug/mL

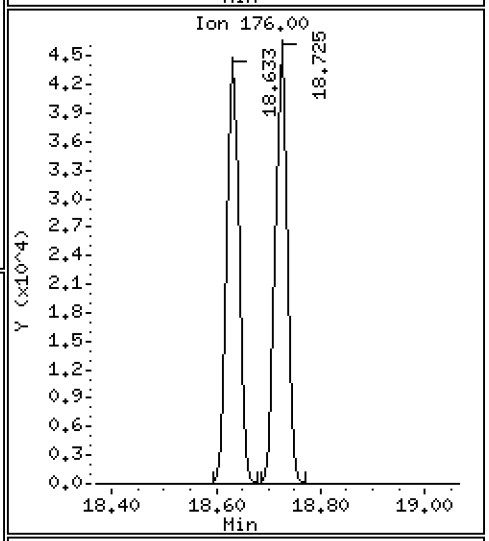


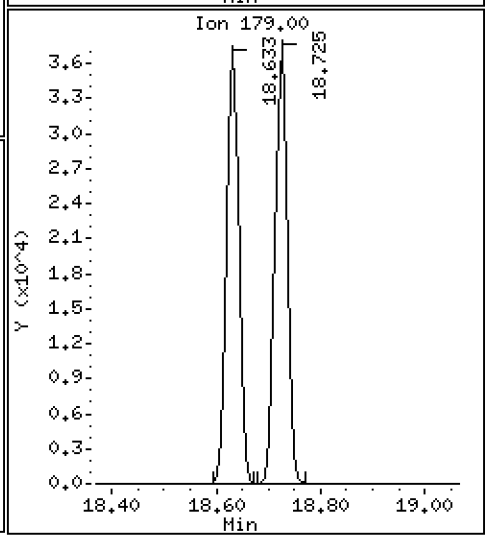












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

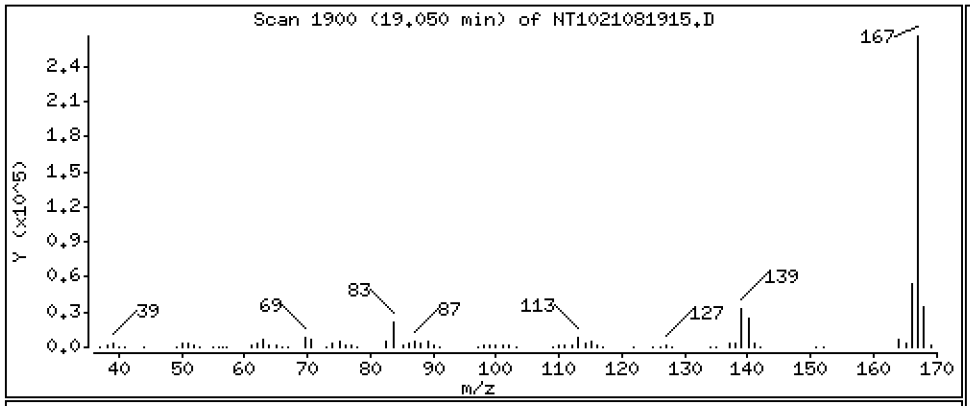
Operator: VTS

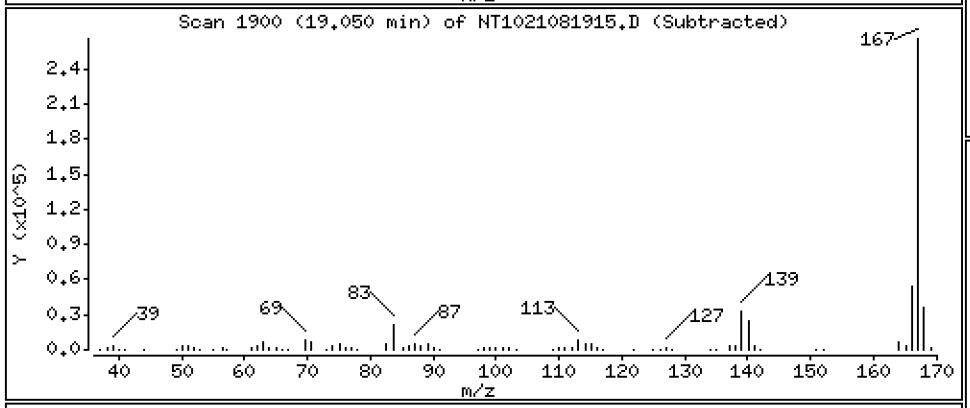
Column phase: ZB-5msi

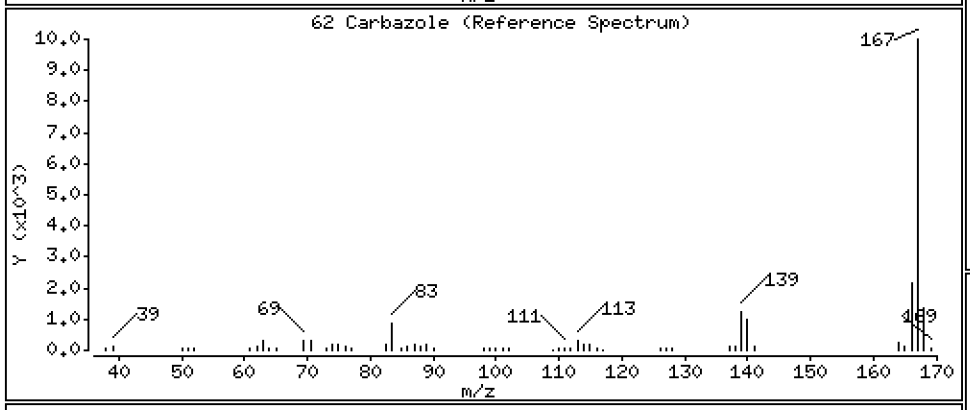
Column diameter: 0.25

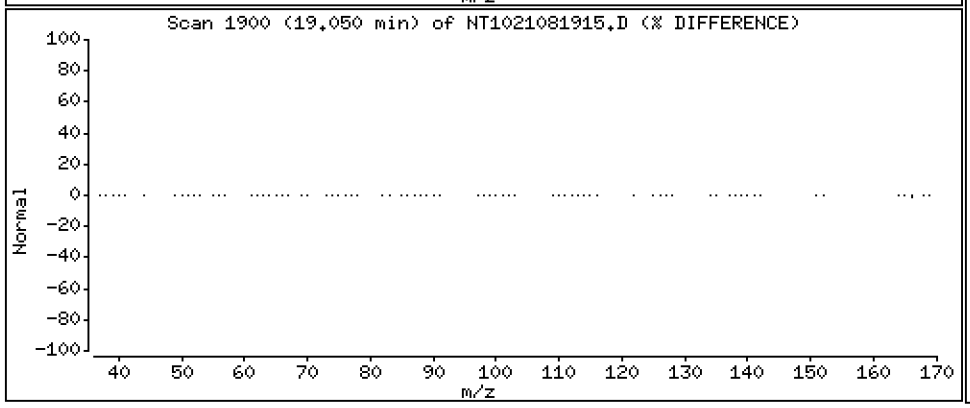
62 Carbazole

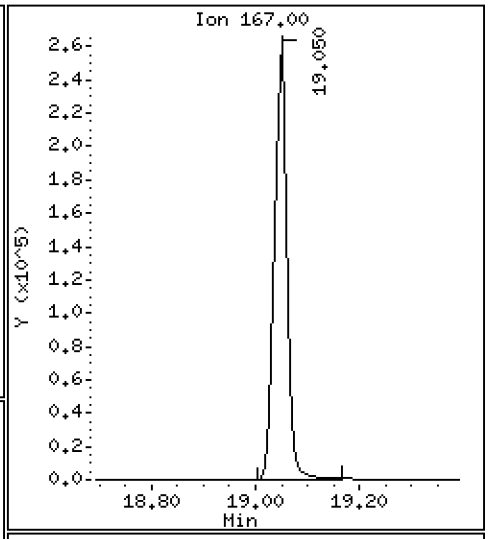
Concentration: 4.972 ug/mL

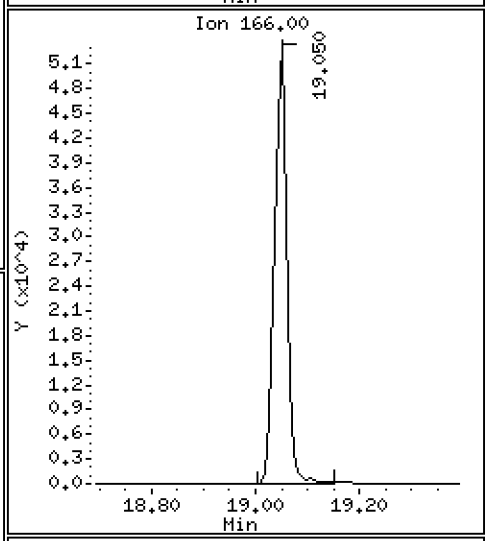


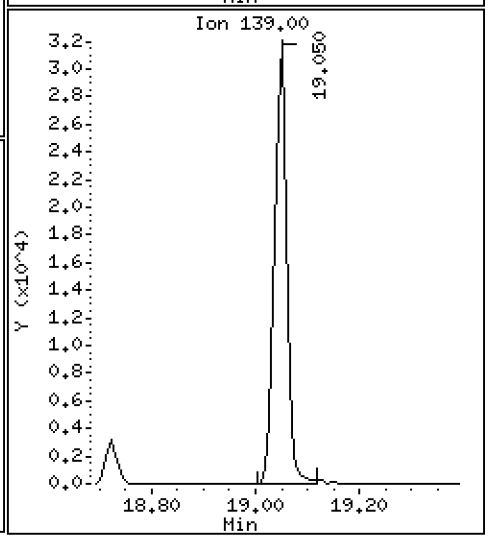












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

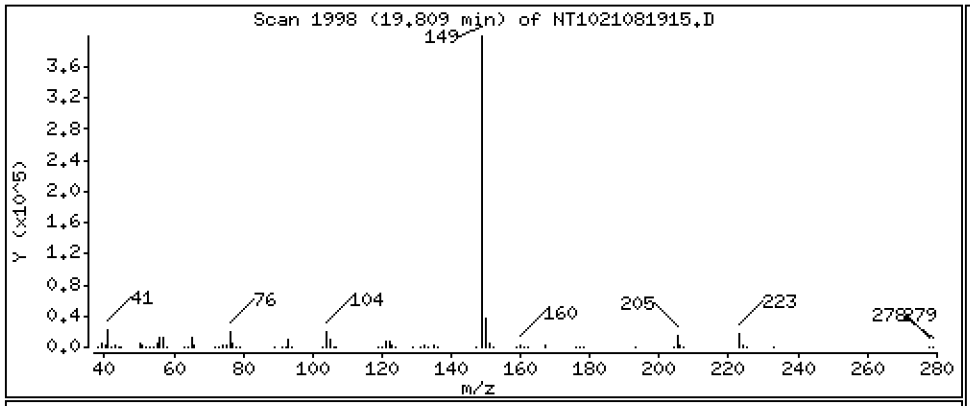
Operator: VTS

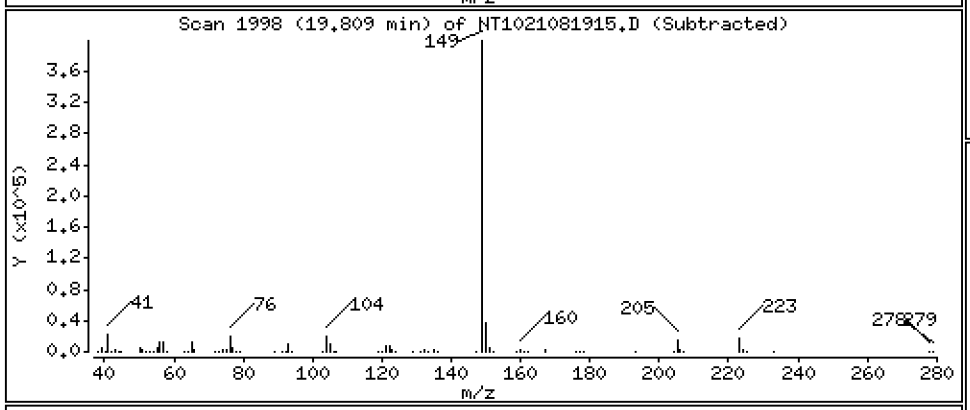
Column phase: ZB-5msi

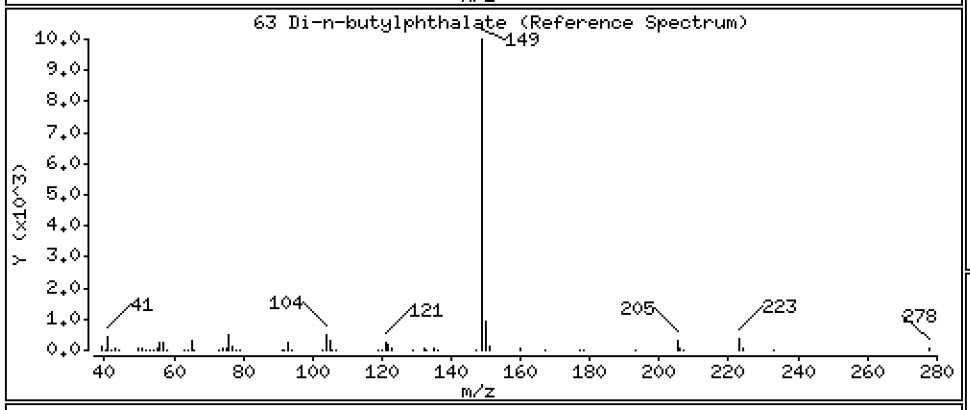
Column diameter: 0.25

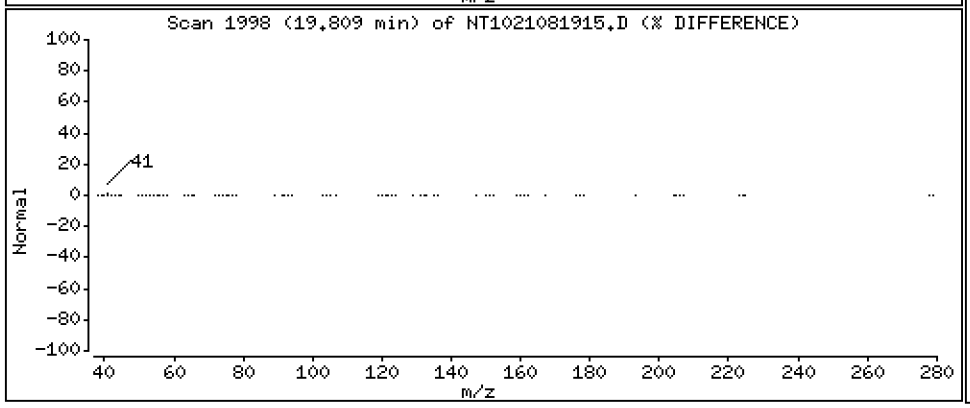
63 Di-n-butylphthalate

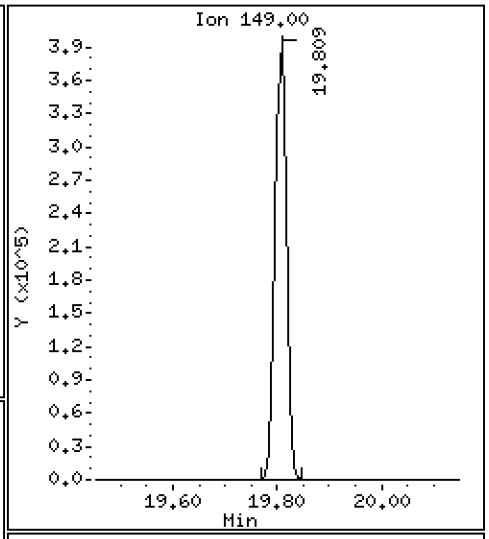
Concentration: 5.375 ug/mL

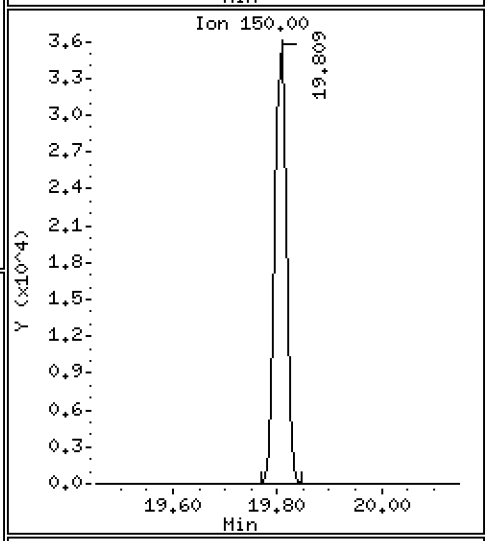


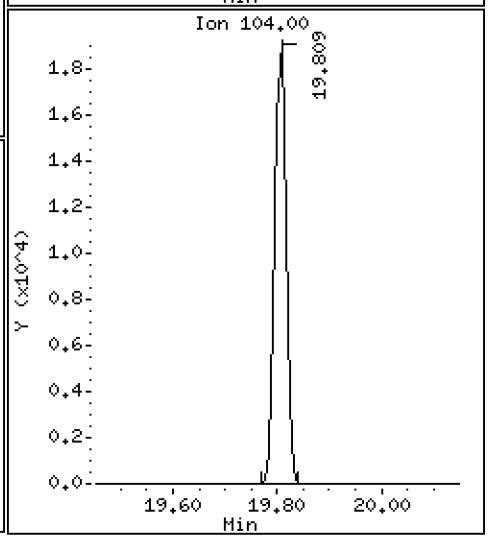












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

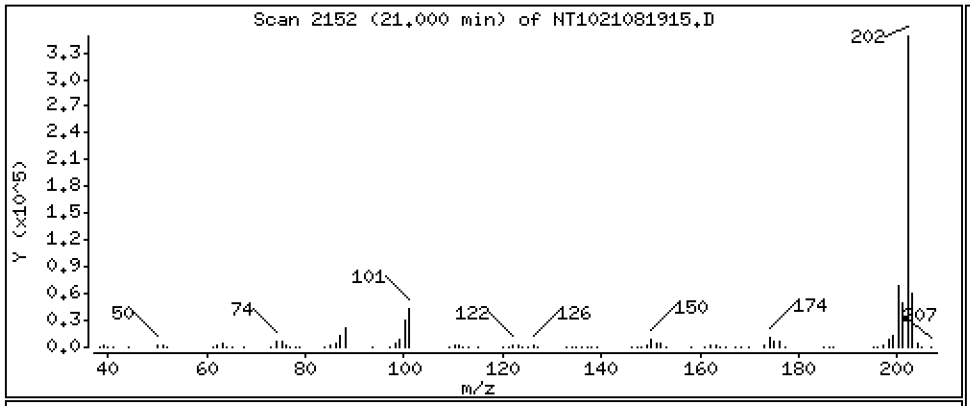
Operator: VTS

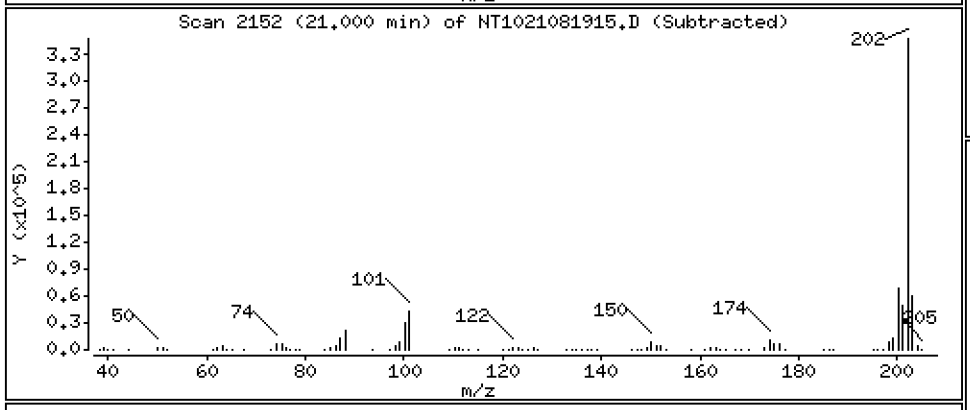
Column phase: ZB-5msi

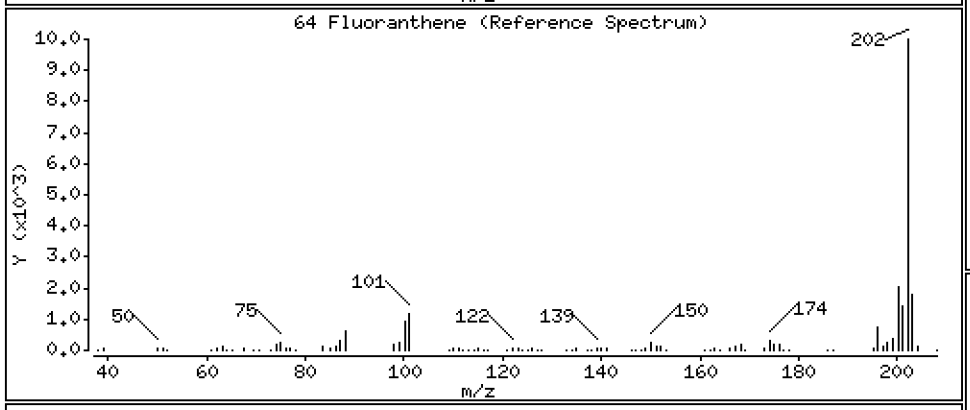
Column diameter: 0.25

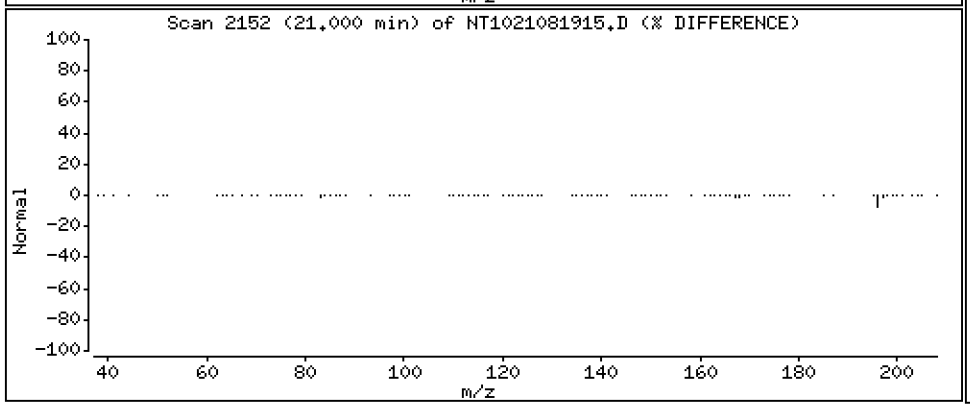
64 Fluoranthene

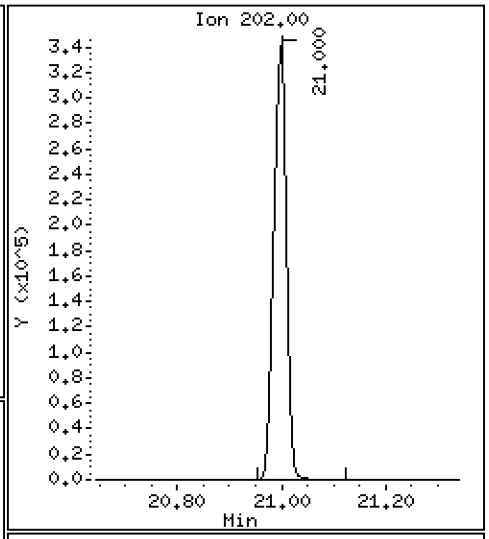
Concentration: 4.853 ug/mL

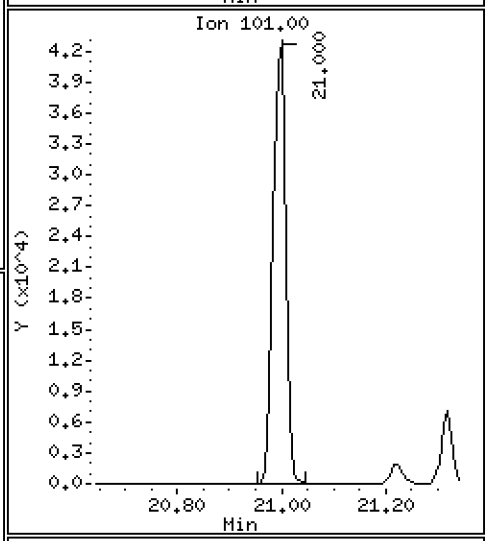


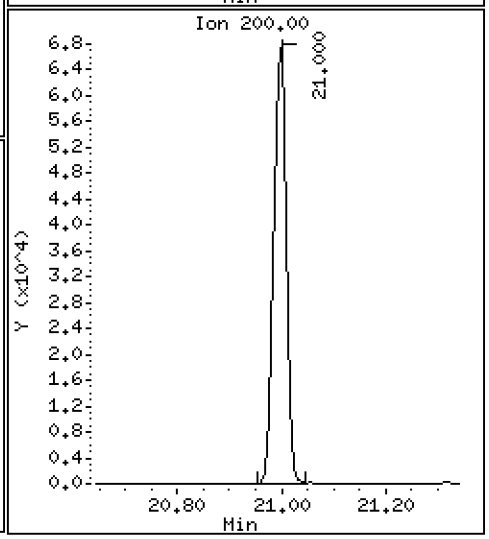












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

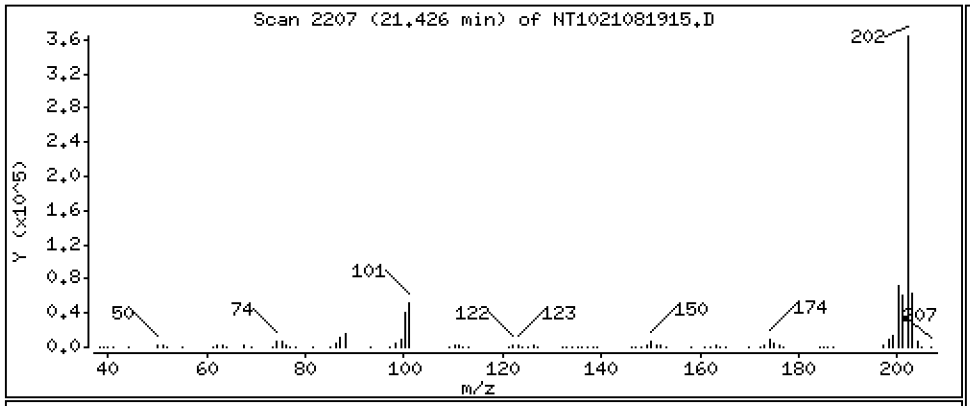
Operator: VTS

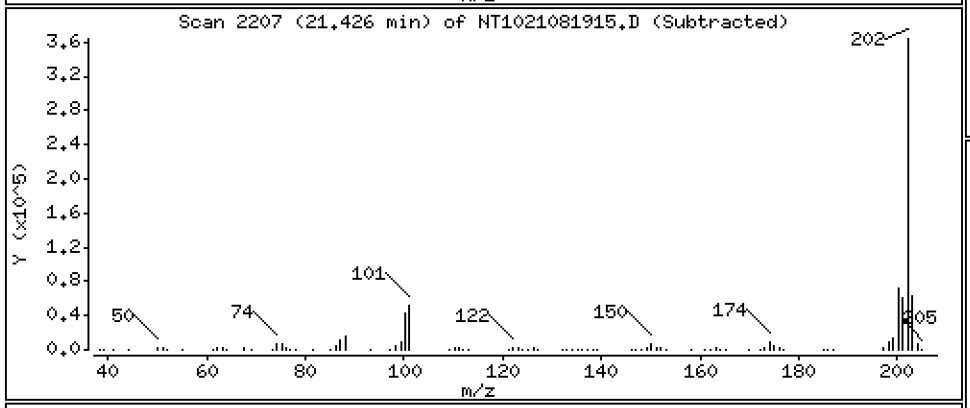
Column phase: ZB-5msi

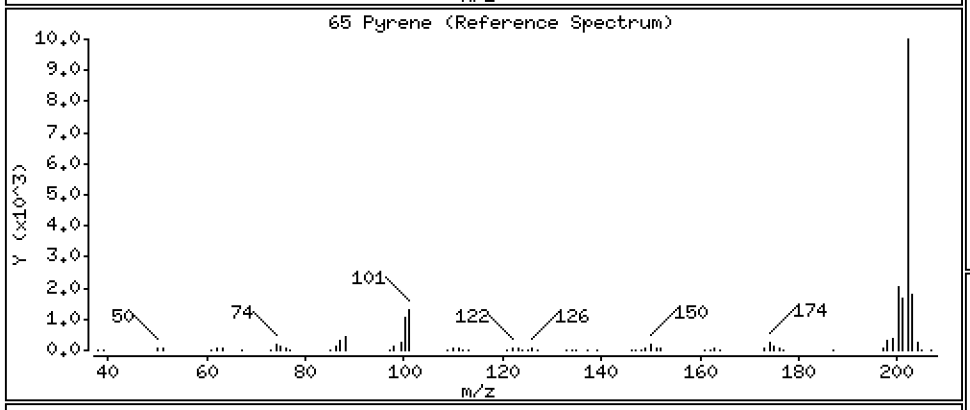
Column diameter: 0.25

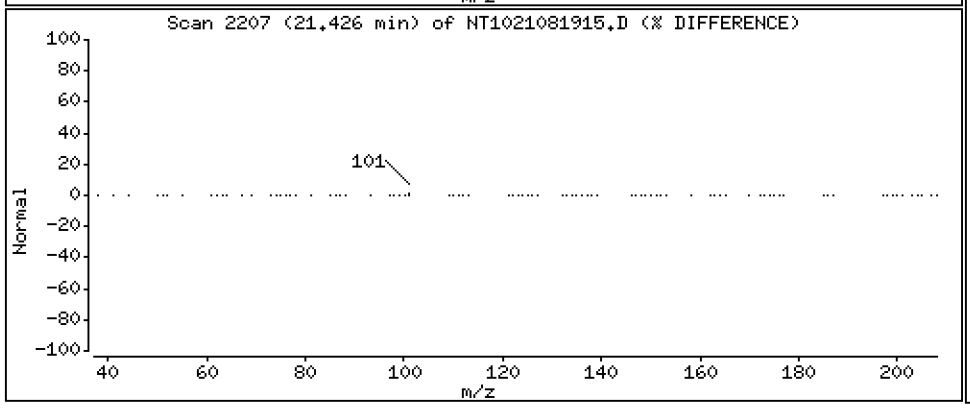
65 Pyrene

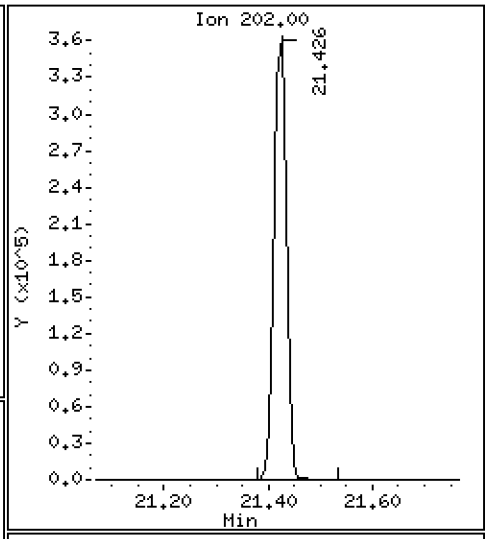
Concentration: 4.862 ug/mL

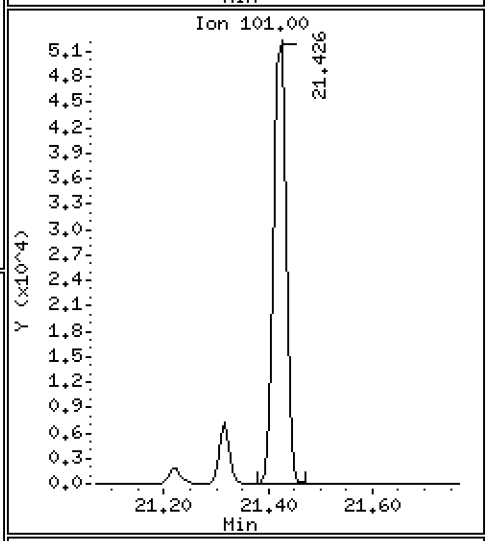


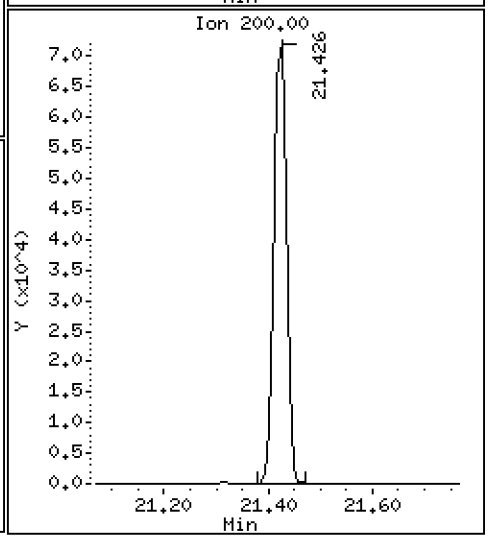












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

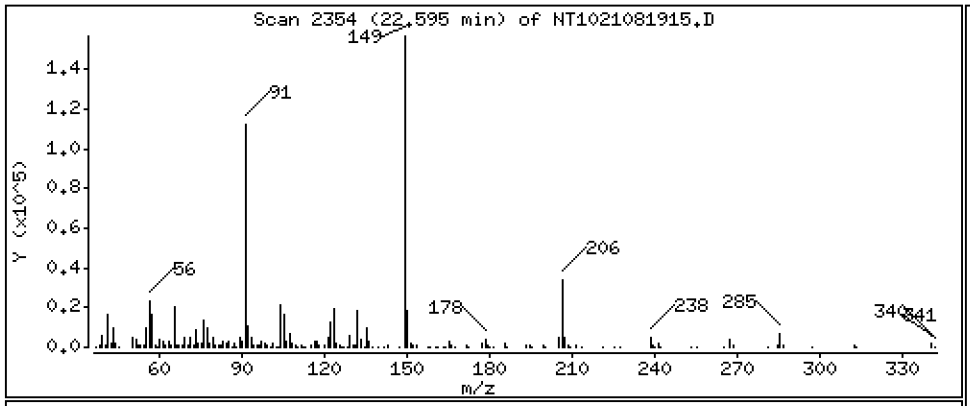
Operator: VTS

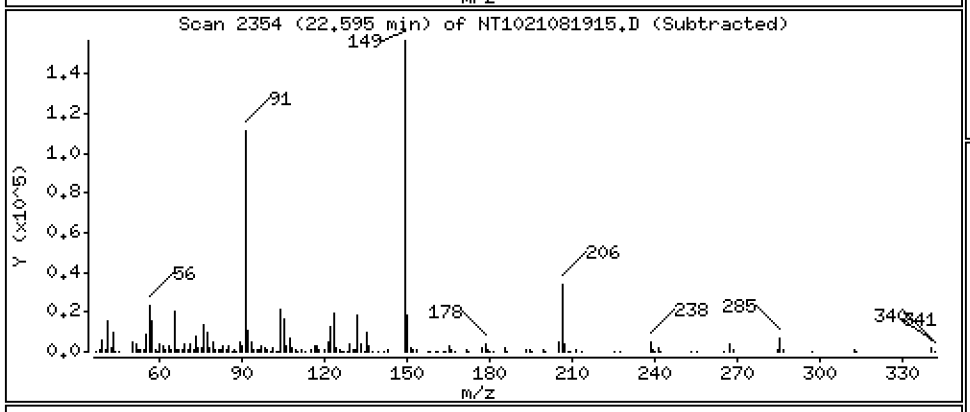
Column phase: ZB-5msi

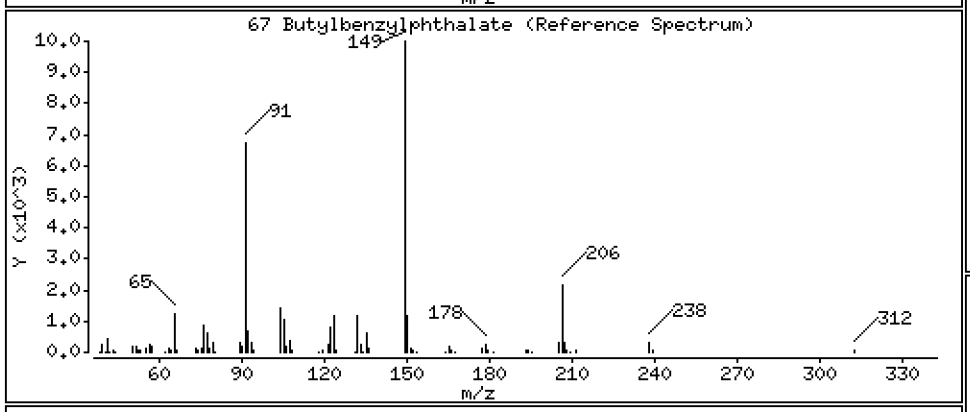
Column diameter: 0.25

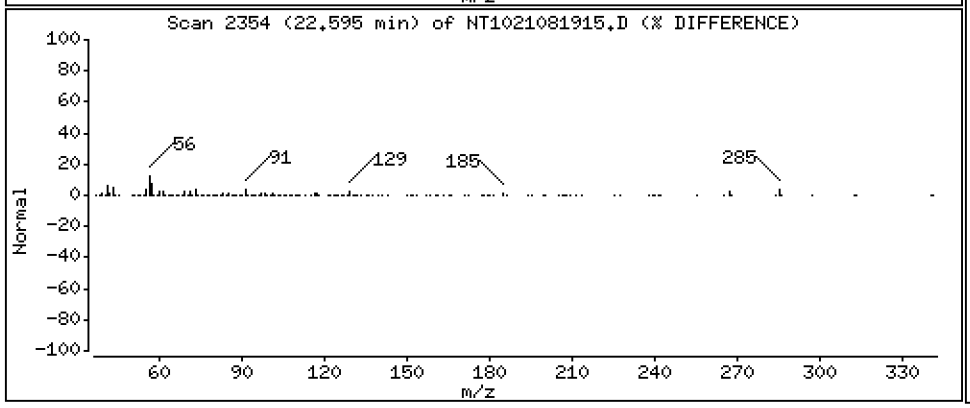
67 Butylbenzylphthalate

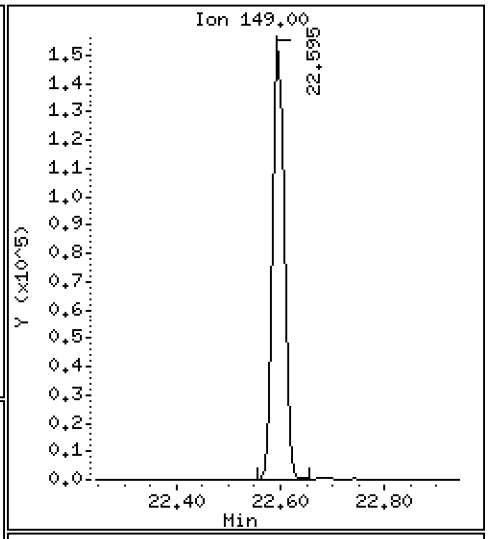
Concentration: 4.889 ug/mL

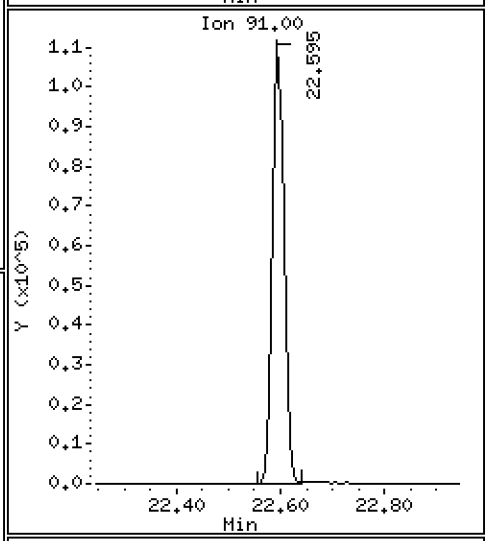


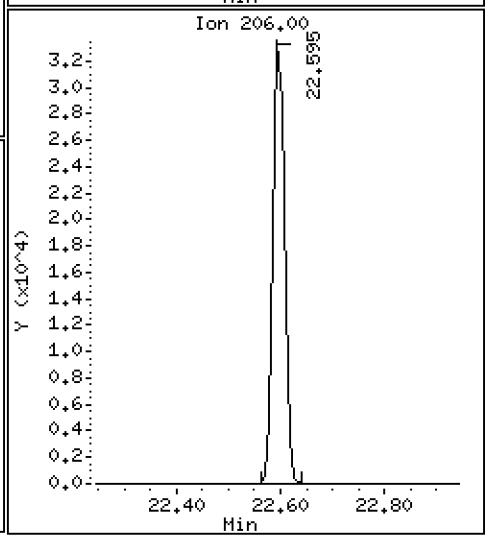












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

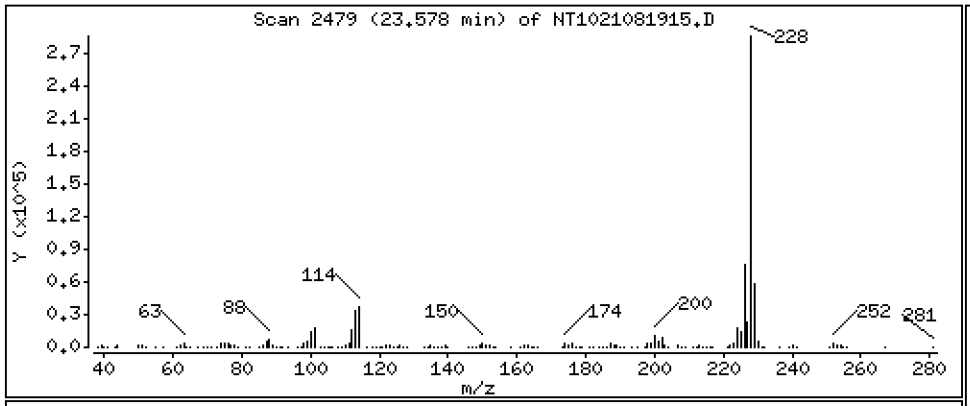
Operator: VTS

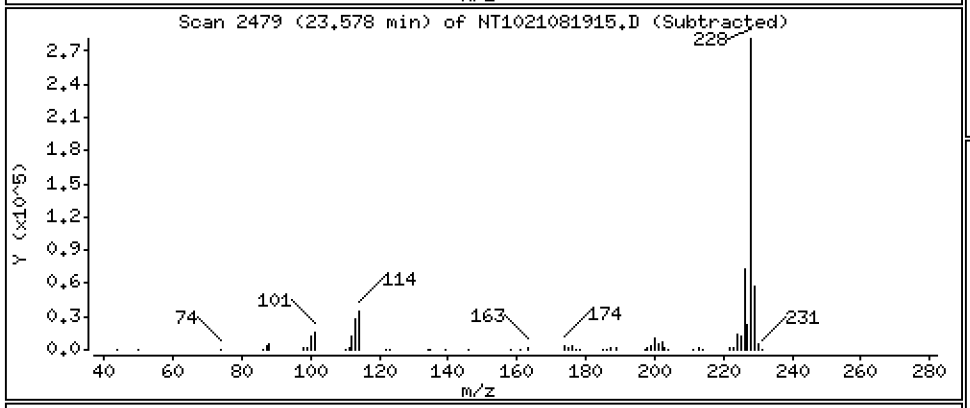
Column phase: ZB-5msi

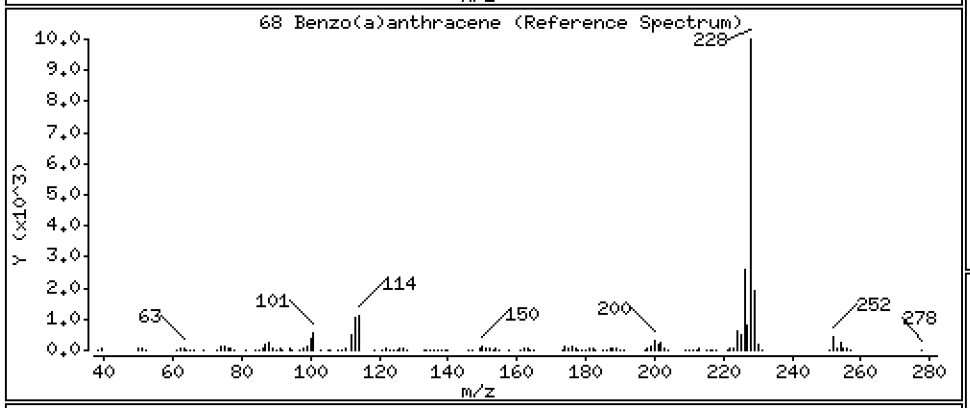
Column diameter: 0.25

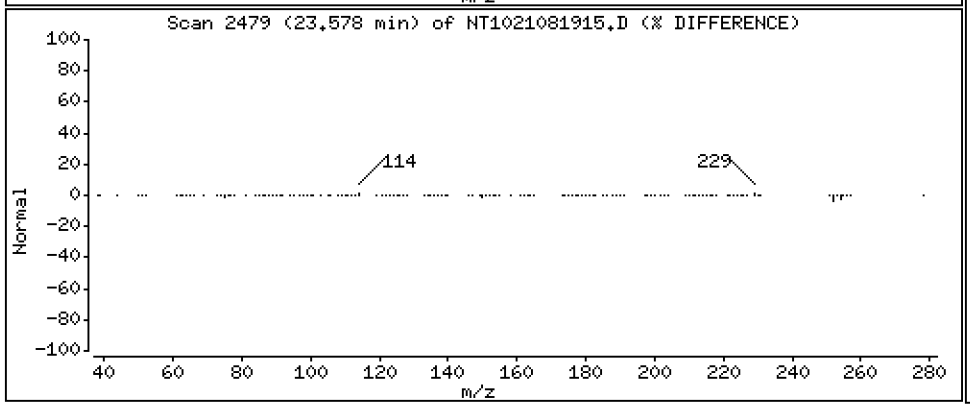
68 Benzo(a)anthracene

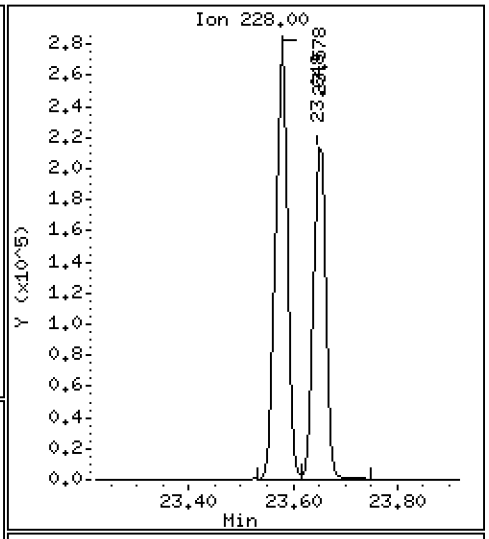
Concentration: 4.800 ug/mL

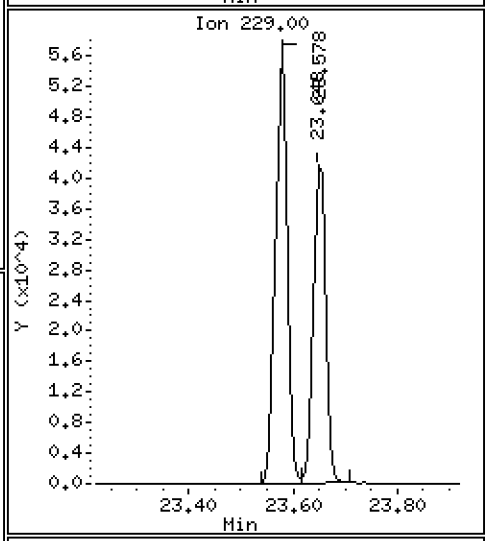


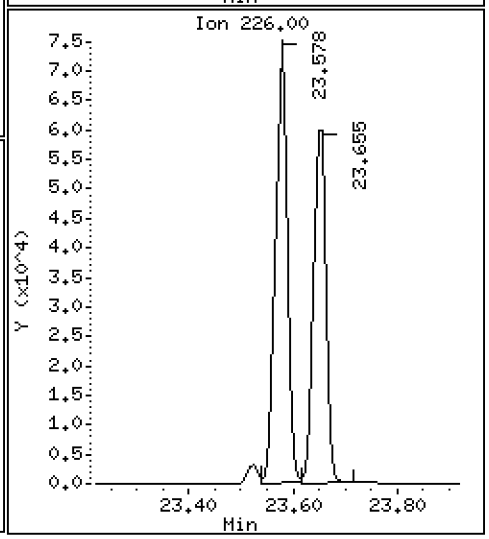












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

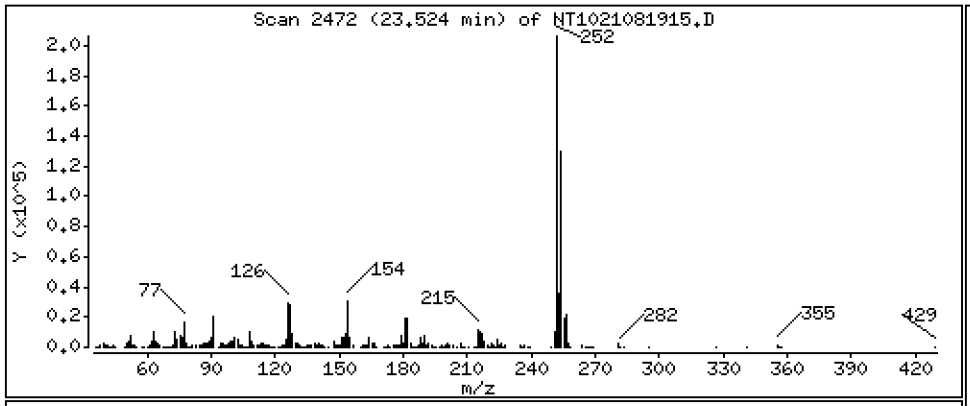
Operator: VTS

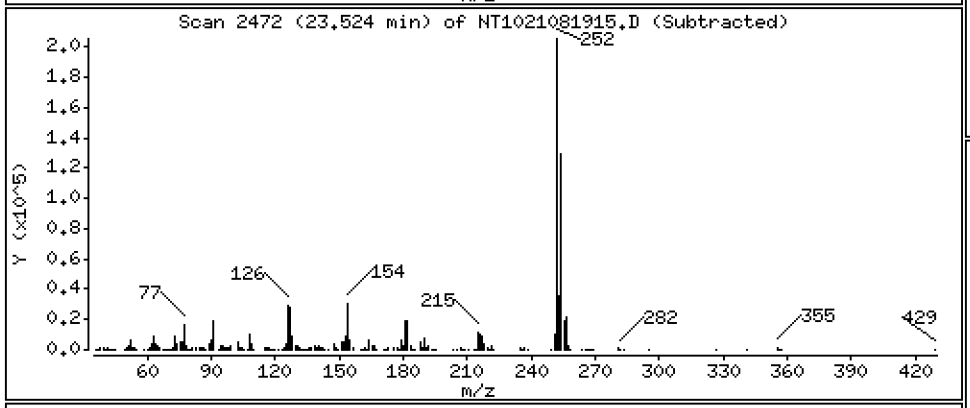
Column phase: ZB-5msi

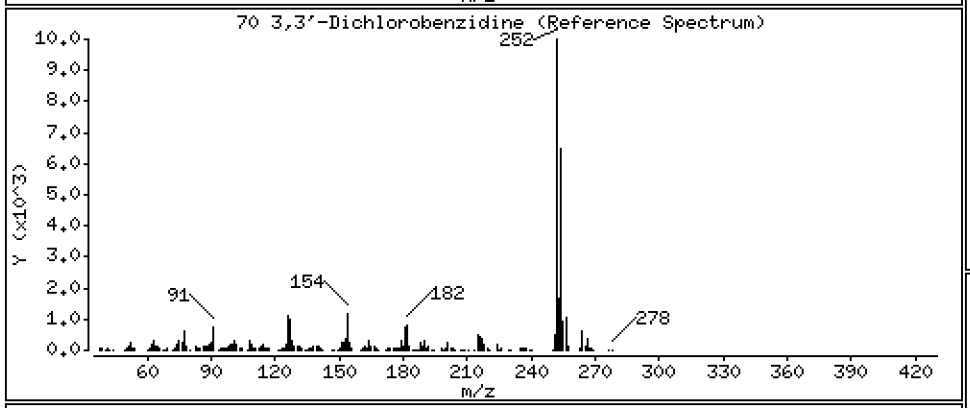
Column diameter: 0.25

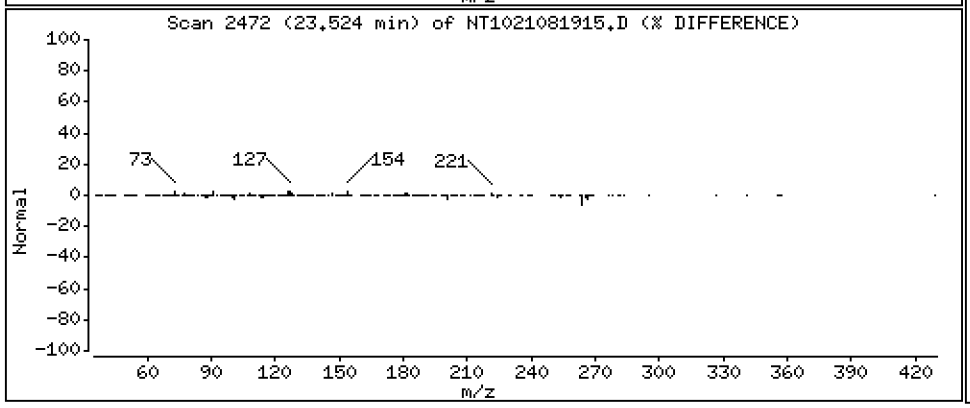
70 3,3'-Dichlorobenzidine

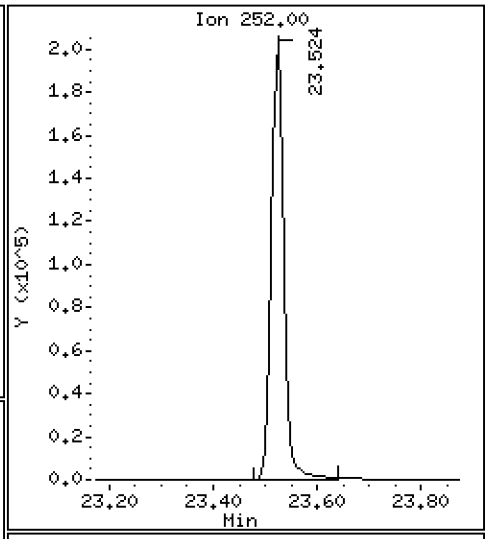
Concentration: 8.830 ug/mL

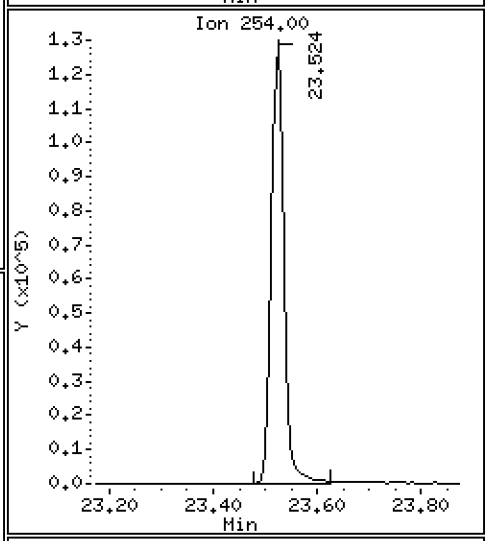


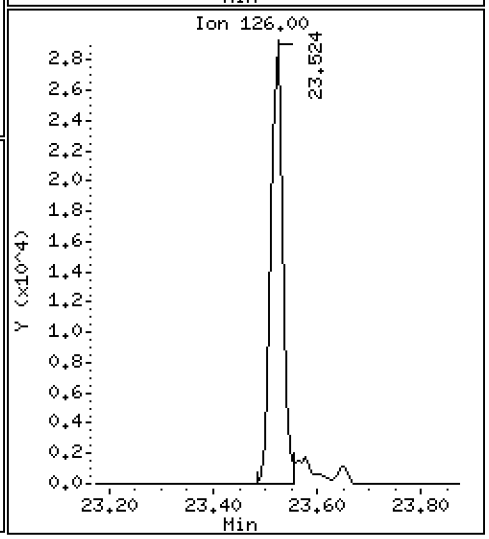












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

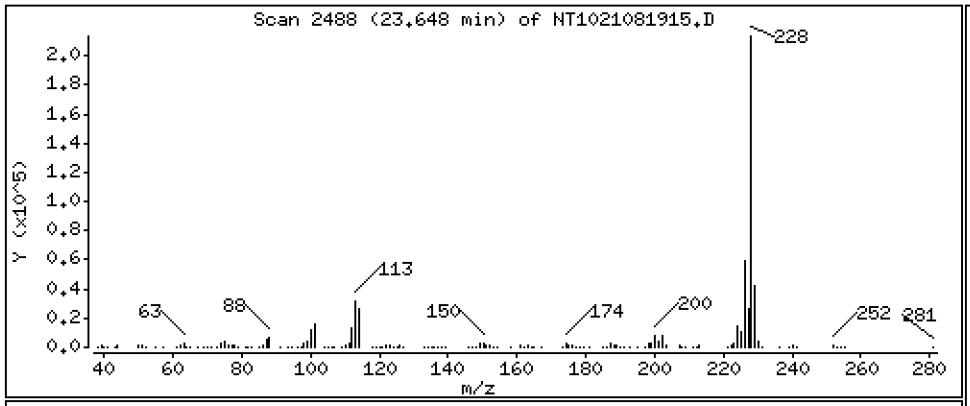
Operator: VTS

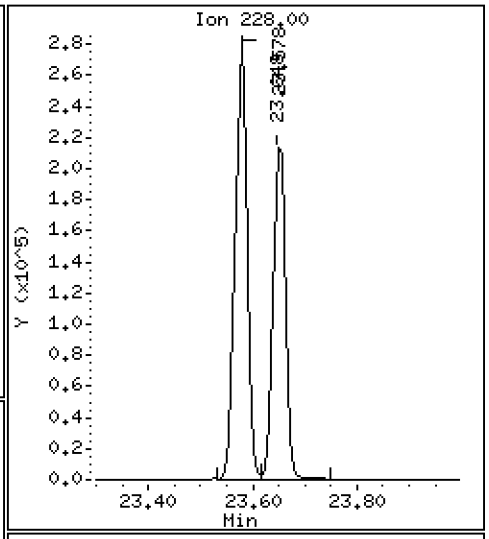
Column phase: ZB-5msi

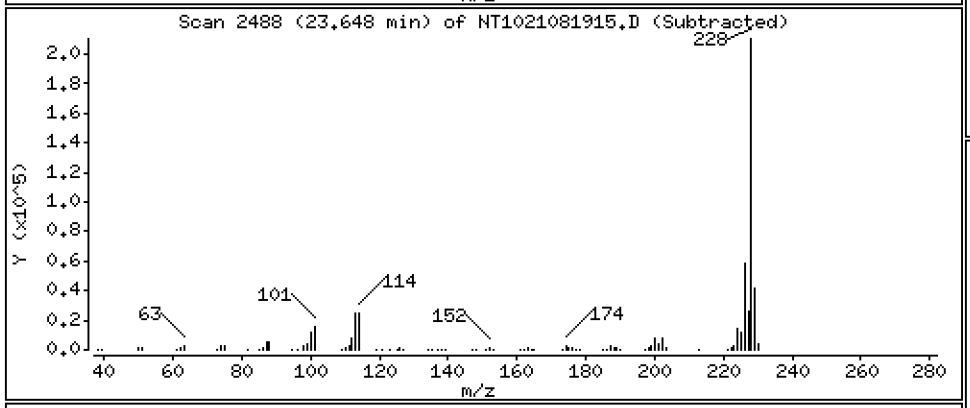
Column diameter: 0.25

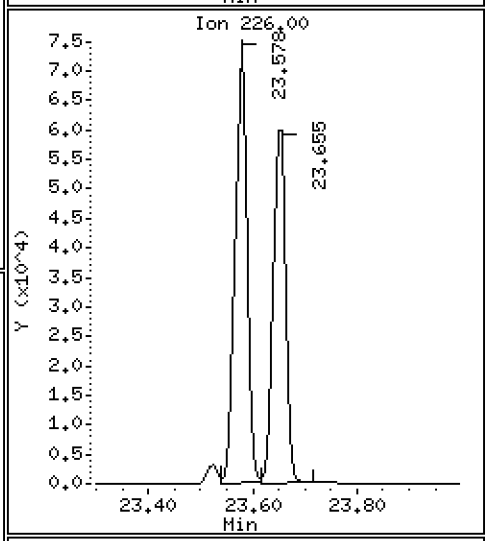
71 Chrysene

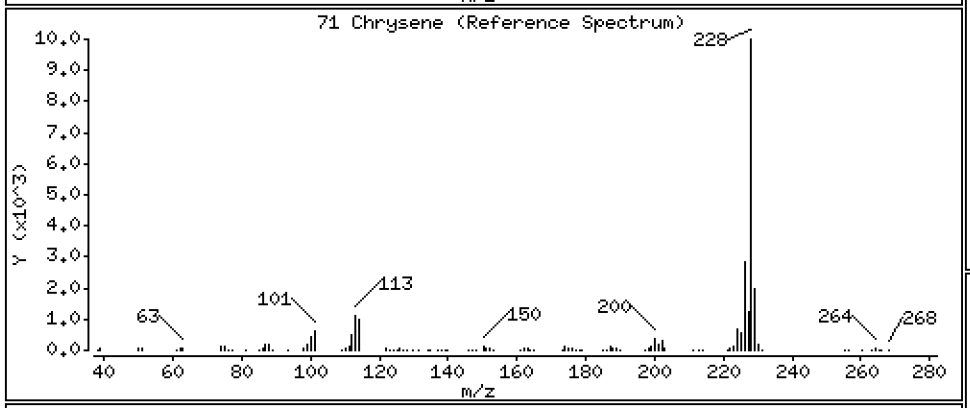
Concentration: 4.687 ug/mL

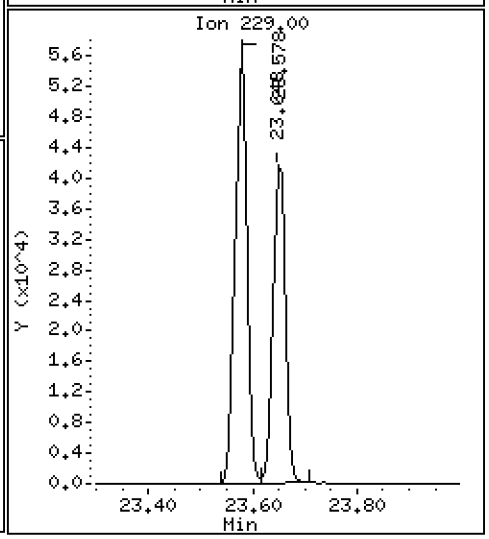


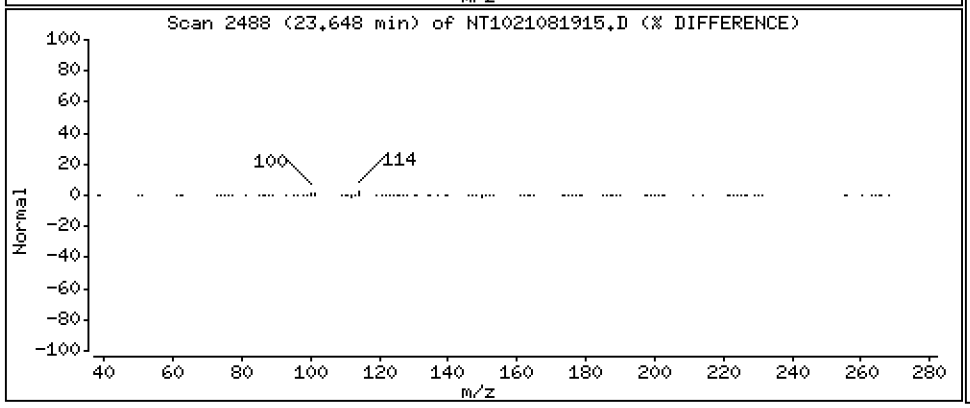












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

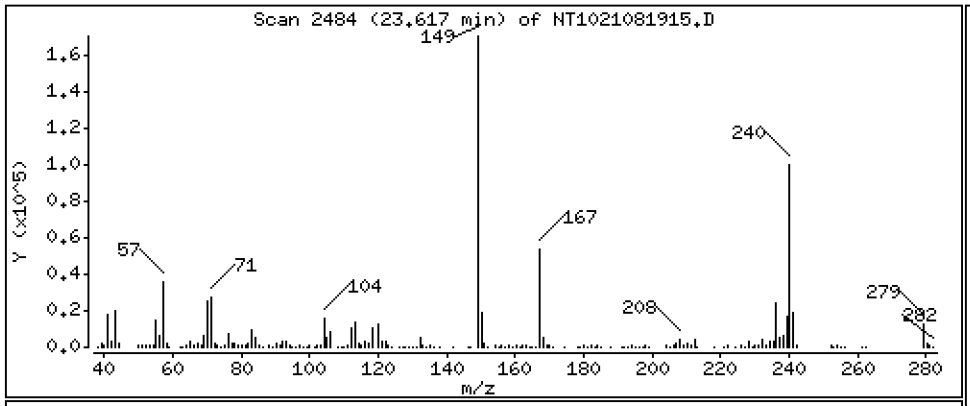
Operator: VTS

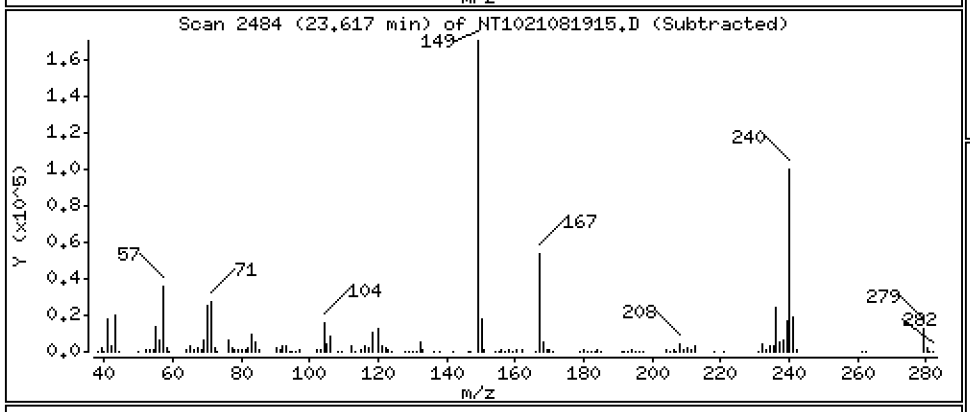
Column phase: ZB-5msi

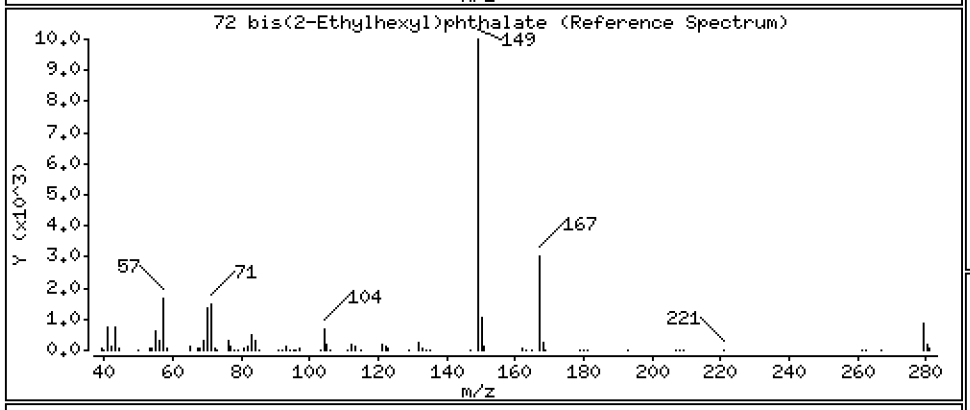
Column diameter: 0.25

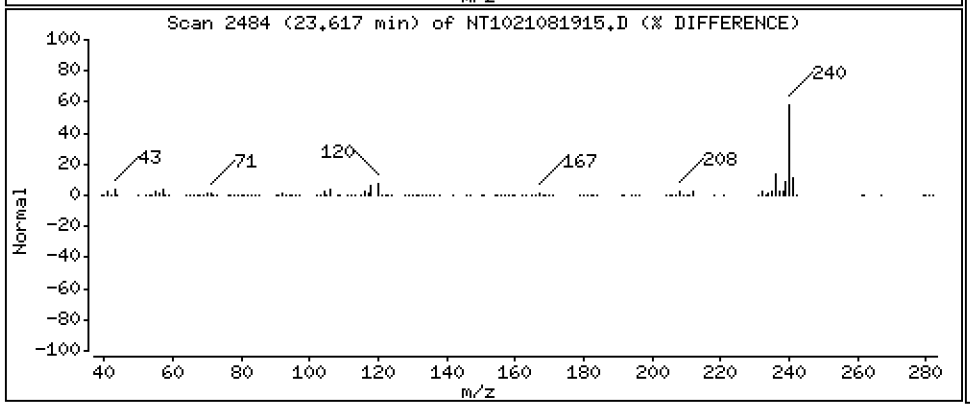
72 bis(2-Ethylhexyl)phthalate

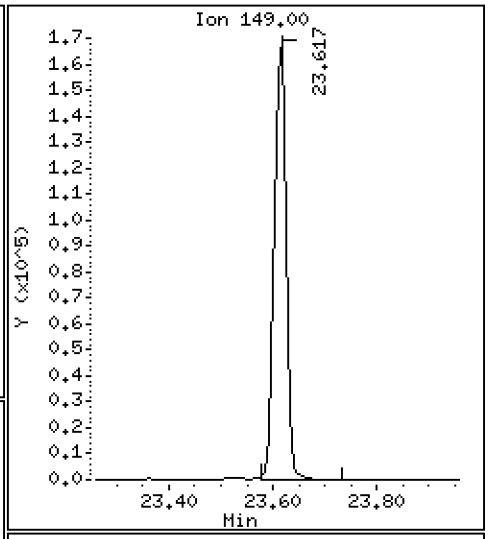
Concentration: 5.362 ug/mL

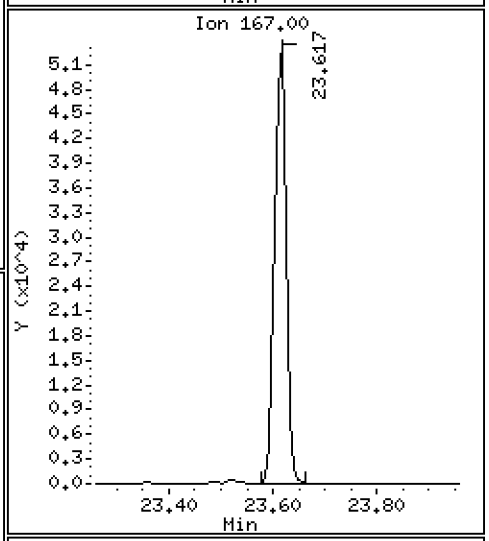


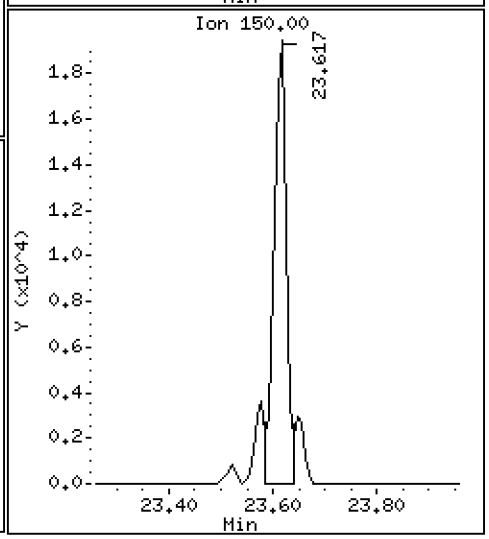












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

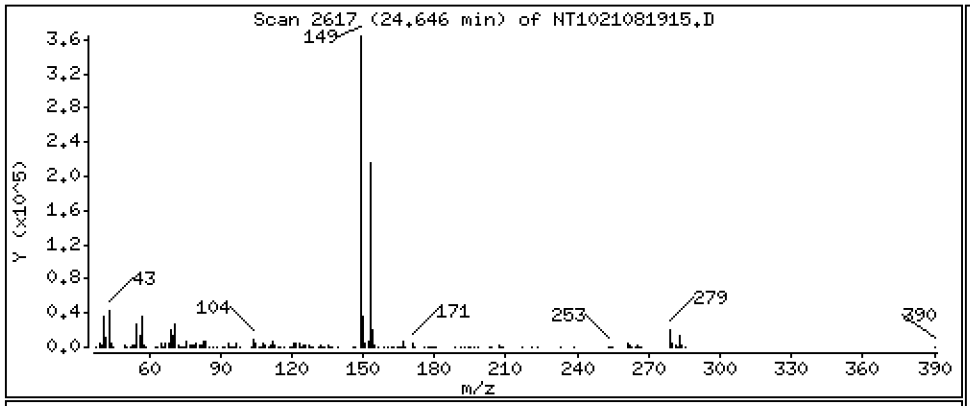
Operator: VTS

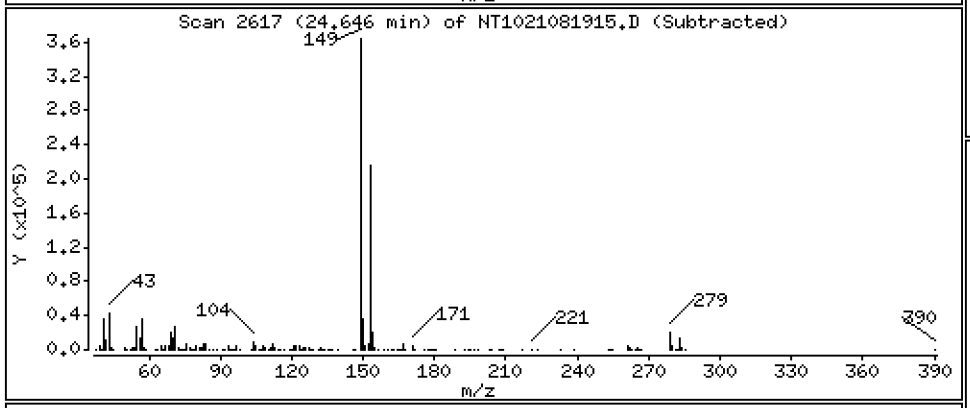
Column phase: ZB-5msi

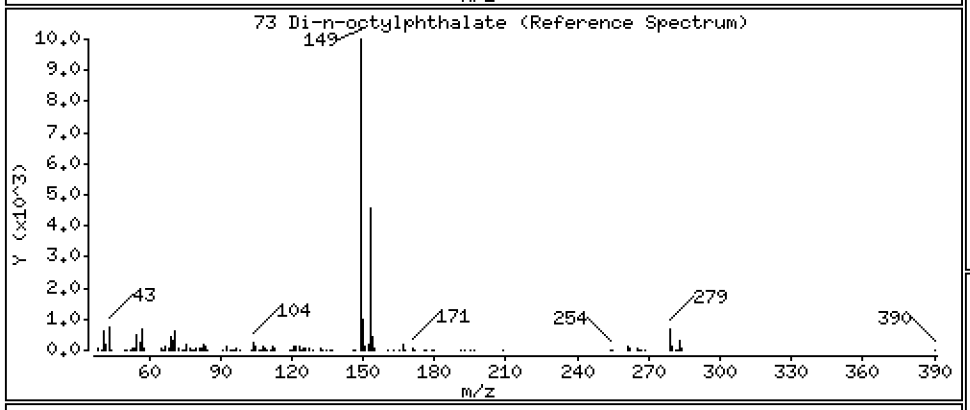
Column diameter: 0.25

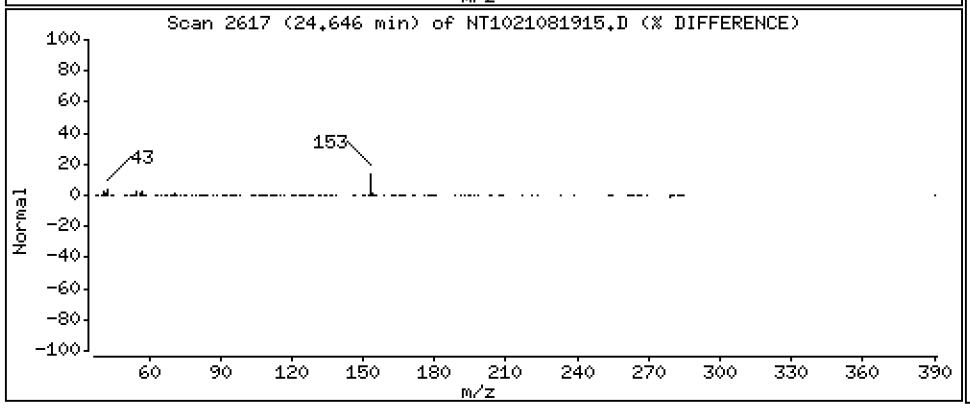
73 Di-n-octylphthalate

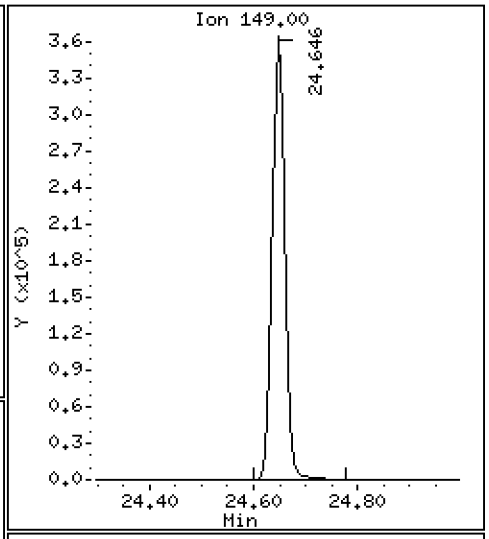
Concentration: 5.228 ug/mL

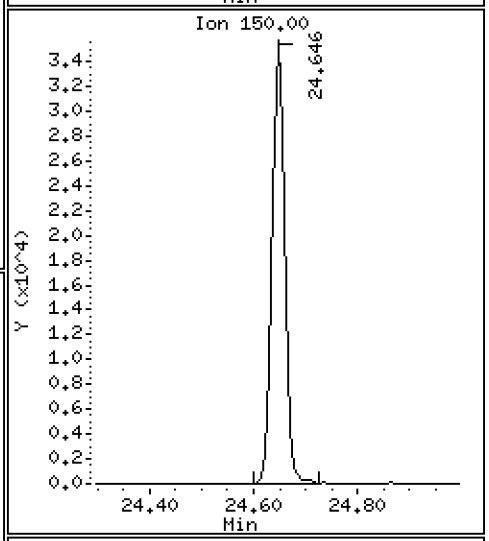


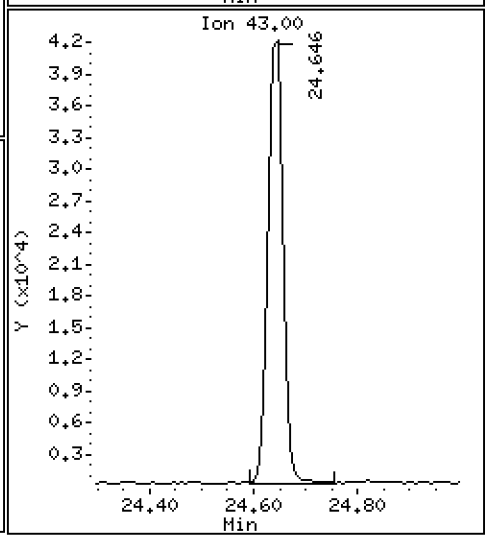












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

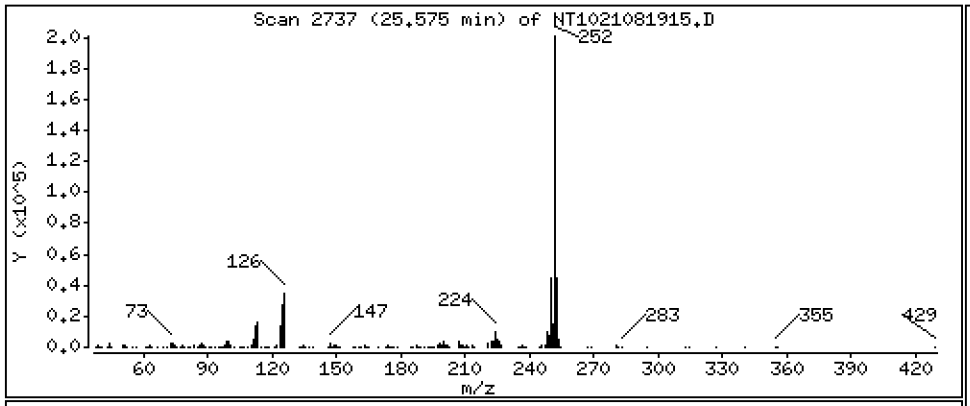
Operator: VTS

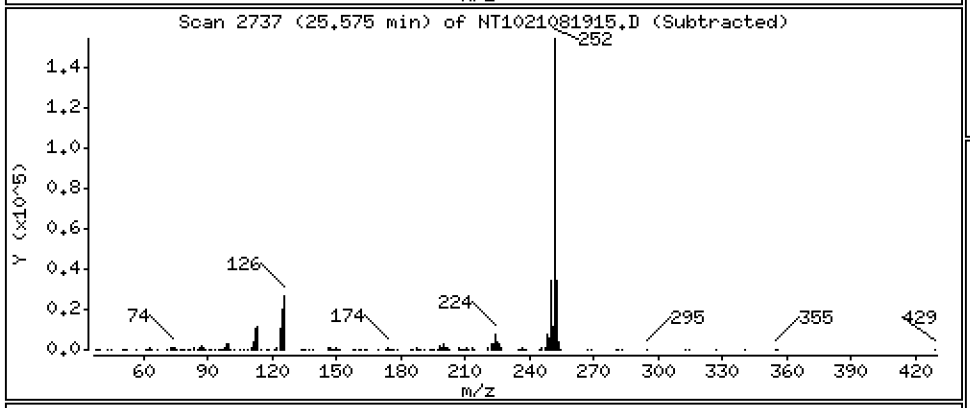
Column phase: ZB-5msi

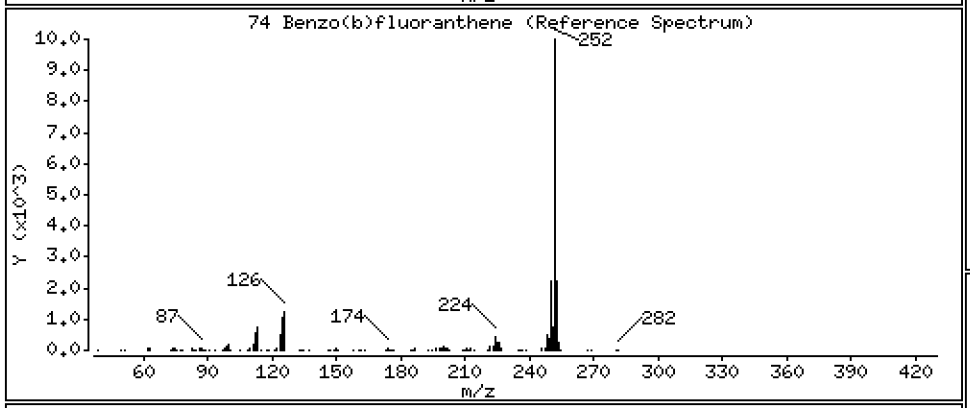
Column diameter: 0.25

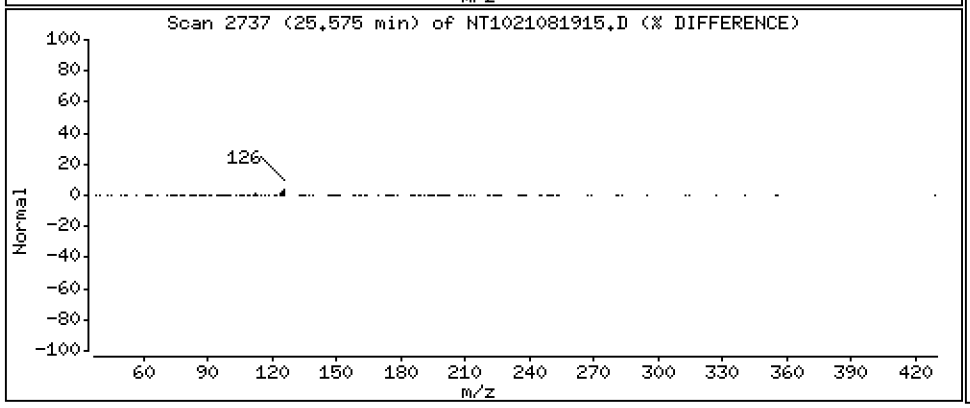
74 Benzo(b)fluoranthene

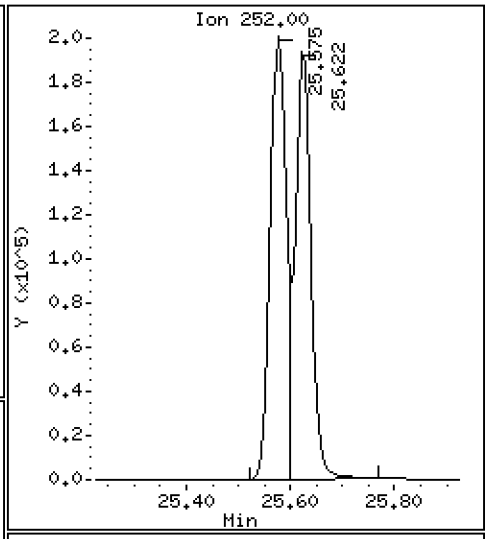
Concentration: 4.877 ug/mL

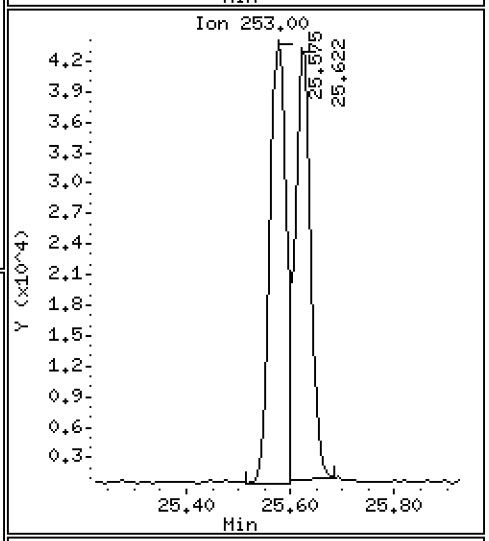


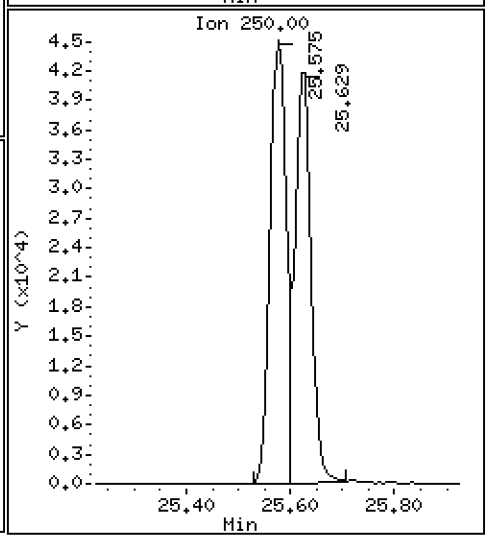












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

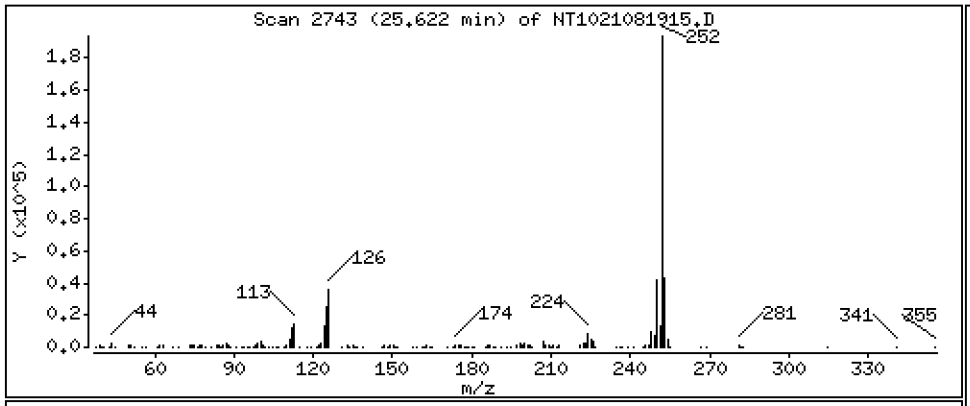
Operator: VTS

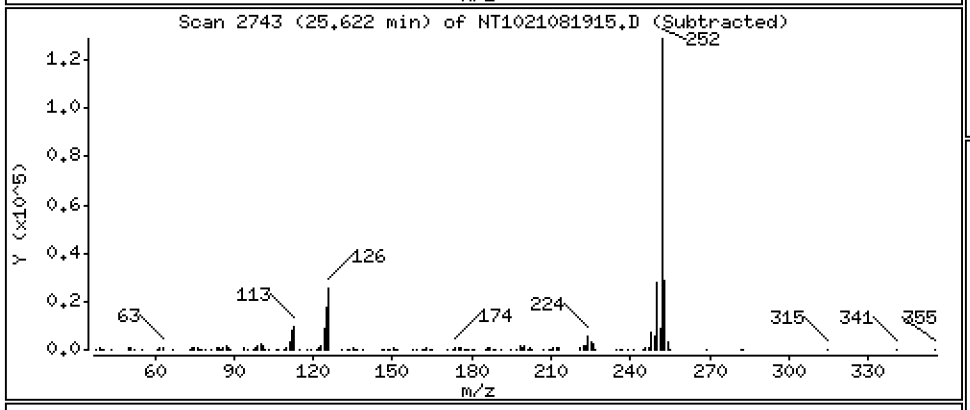
Column phase: ZB-5msi

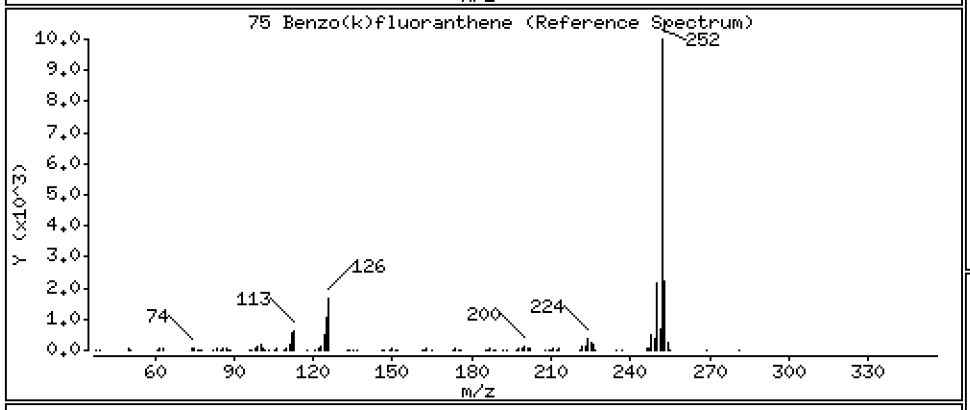
Column diameter: 0.25

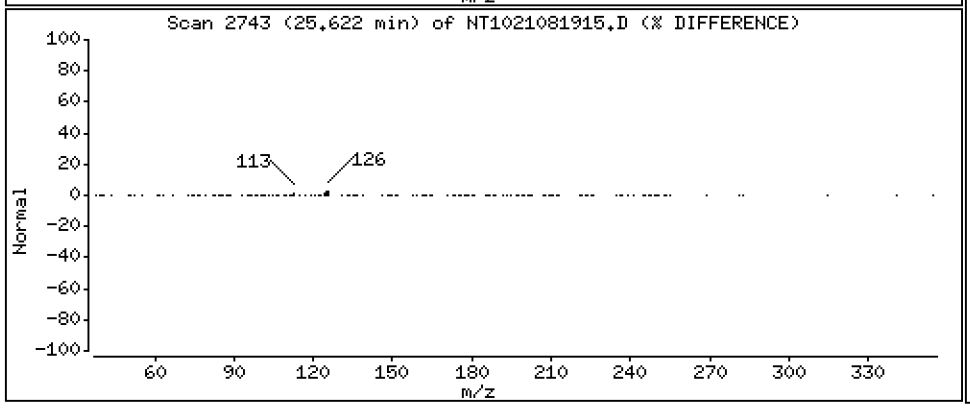
75 Benzo(k)fluoranthene

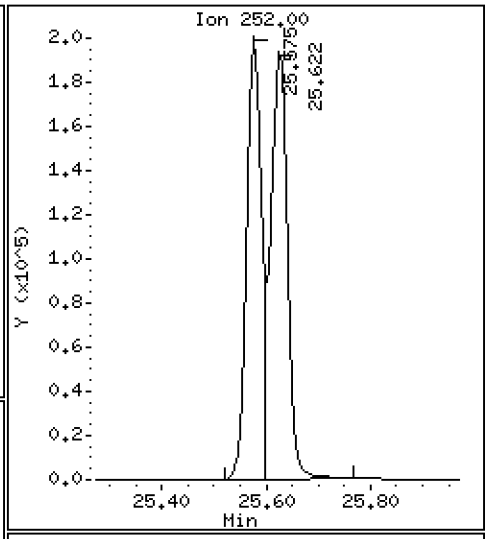
Concentration: 5.195 ug/mL

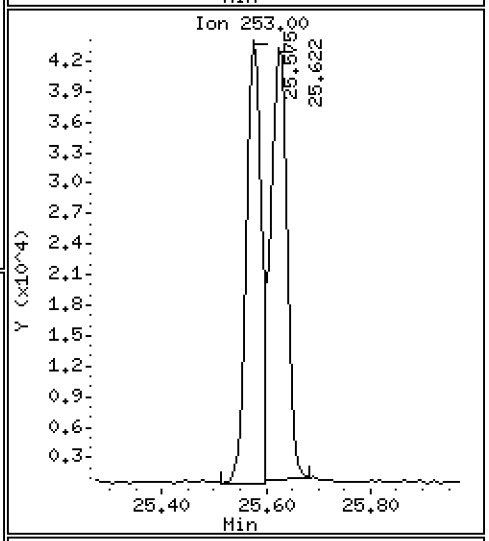


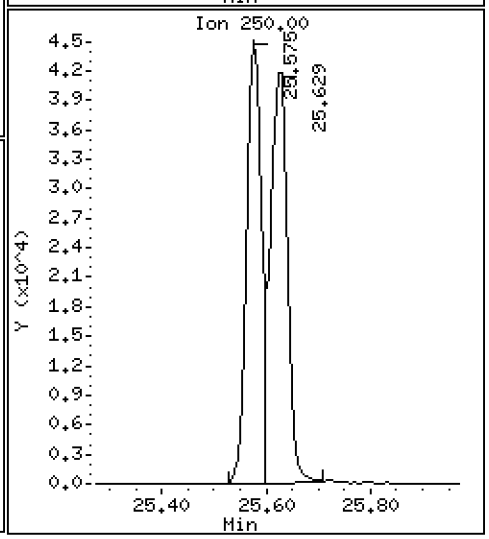












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

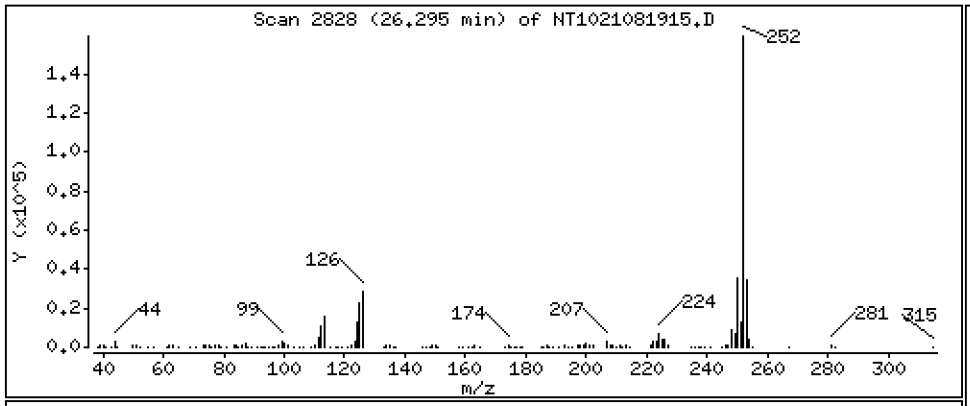
Operator: VTS

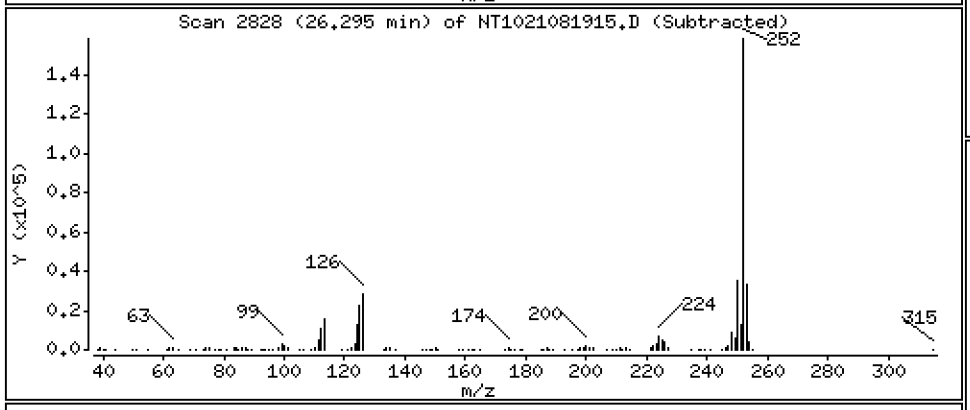
Column phase: ZB-5msi

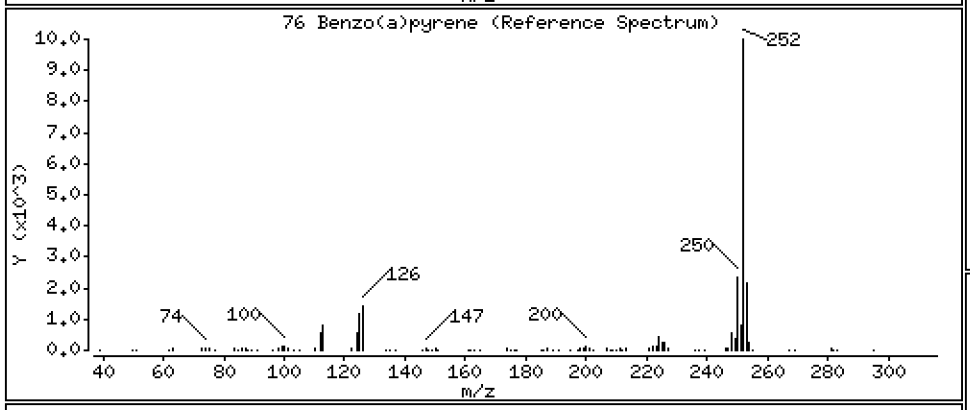
Column diameter: 0.25

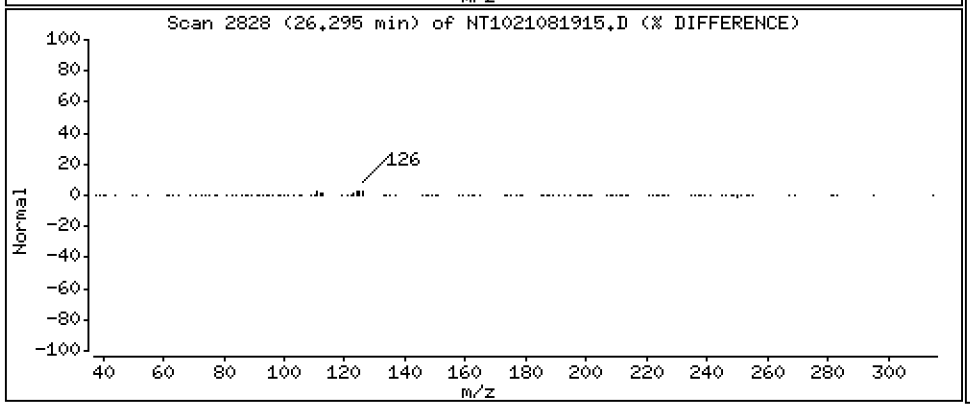
76 Benzo(a)pyrene

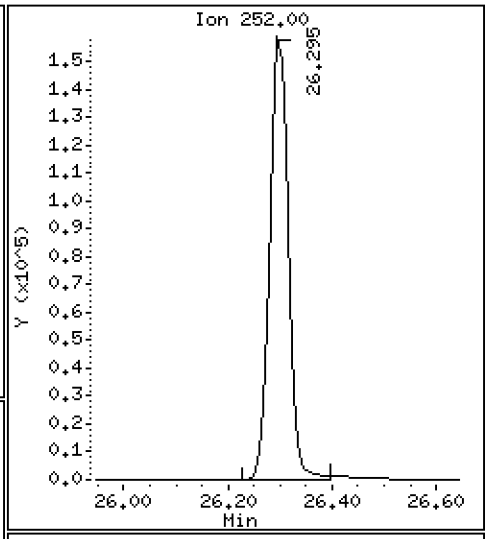
Concentration: 4.980 ug/mL

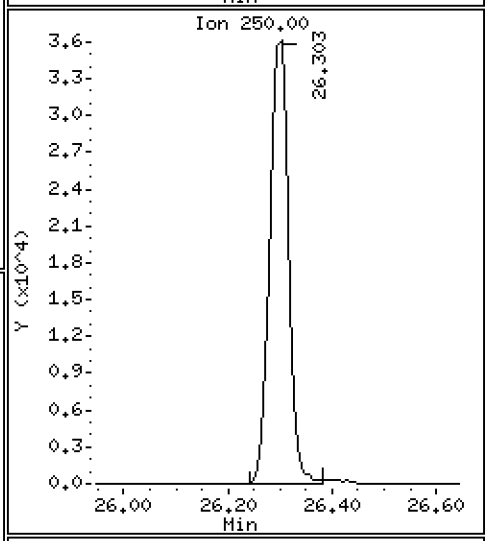


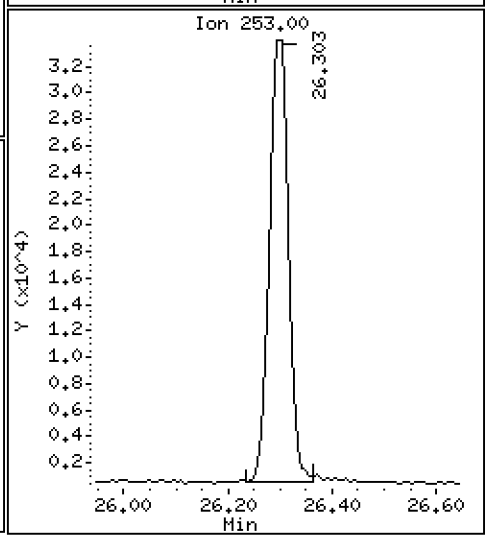












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

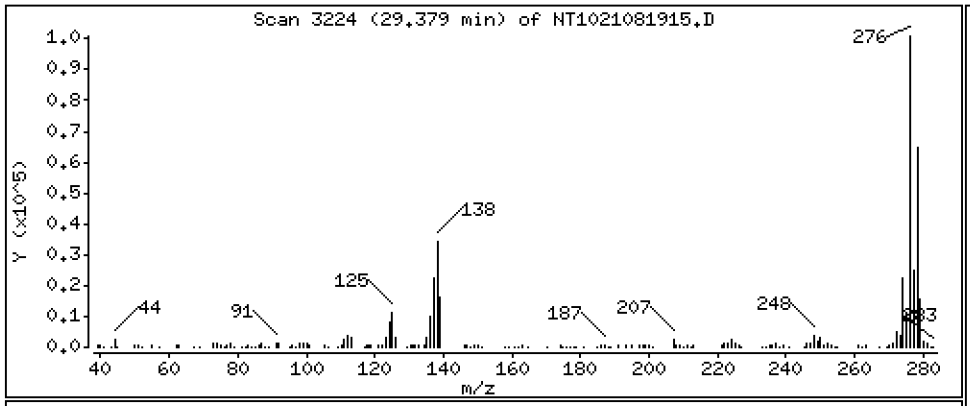
Operator: VTS

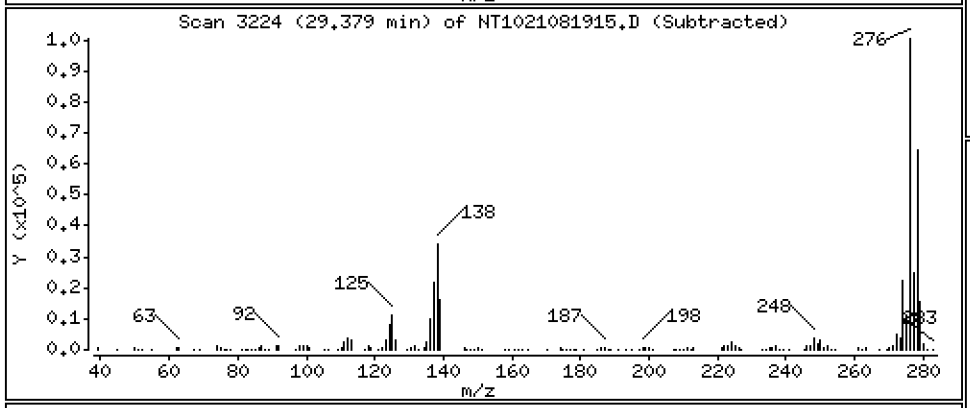
Column phase: ZB-5msi

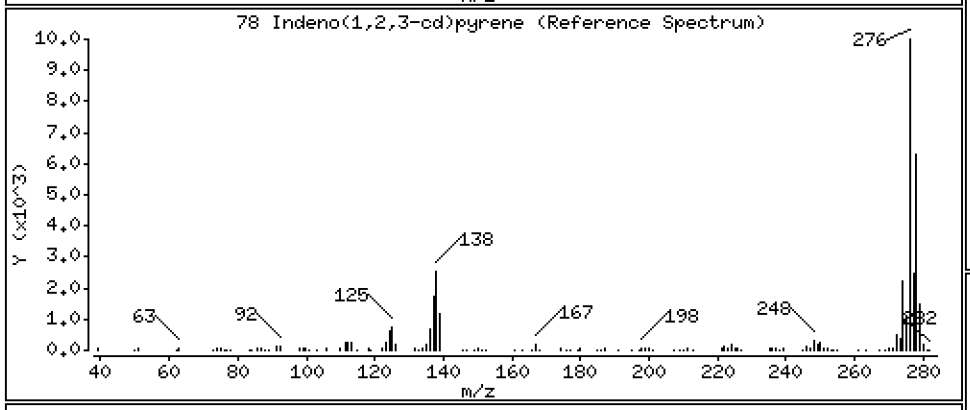
Column diameter: 0.25

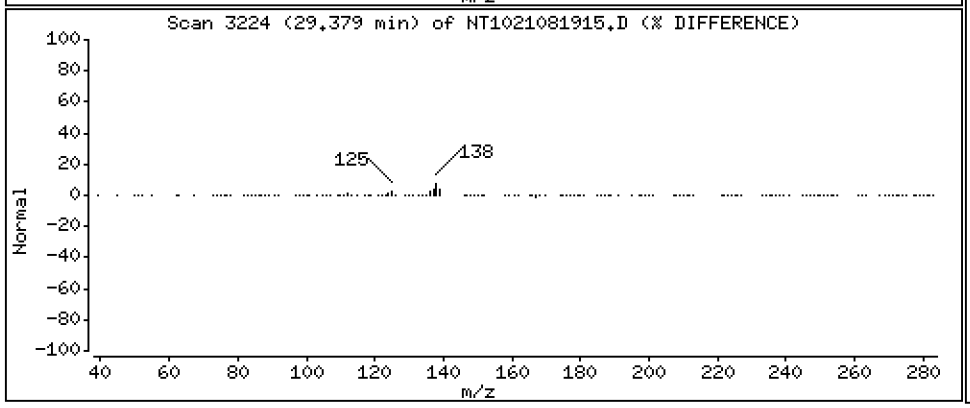
78 Indeno(1,2,3-cd)pyrene

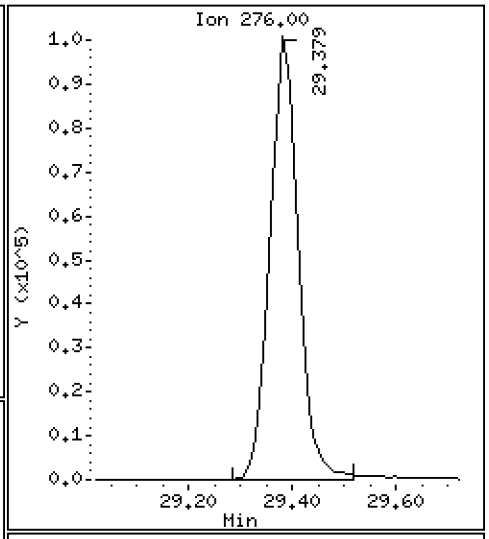
Concentration: 4.855 ug/mL

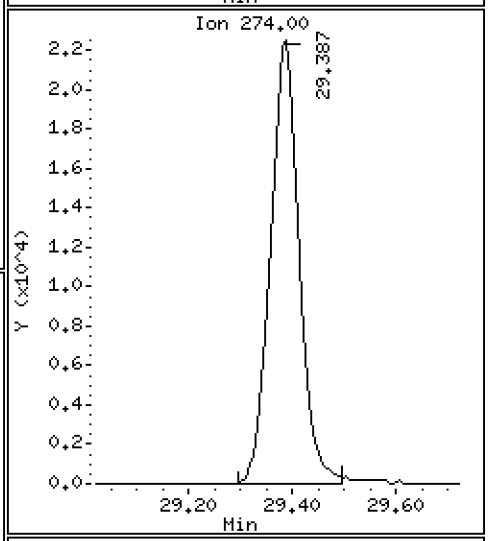


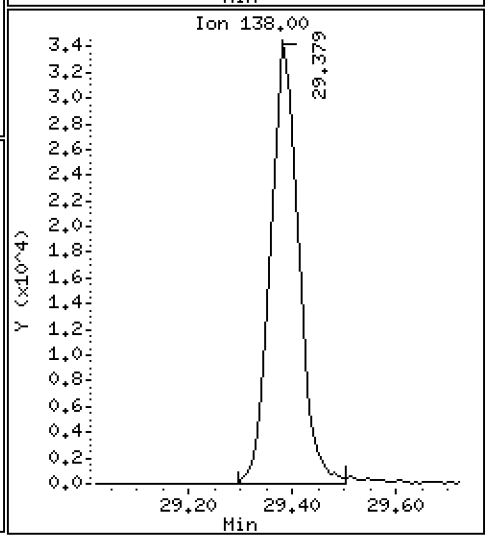












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

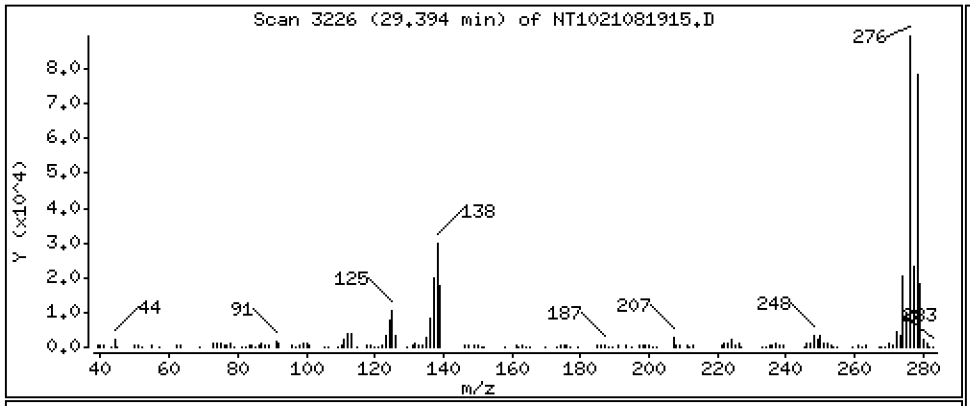
Operator: VTS

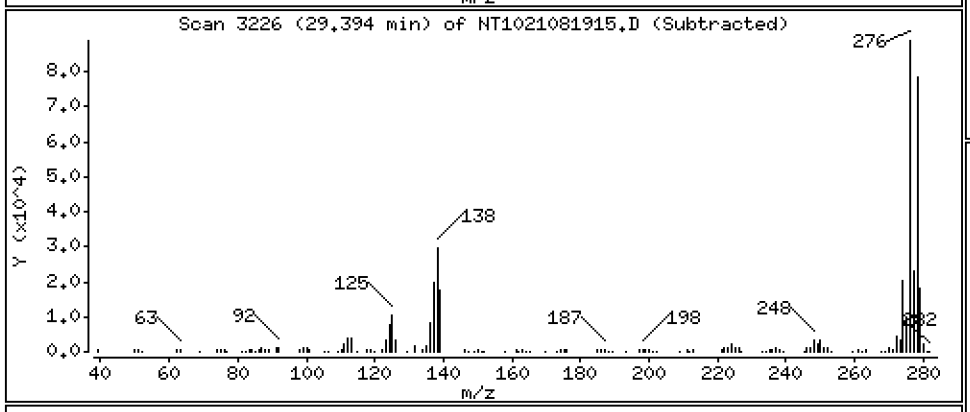
Column phase: ZB-5msi

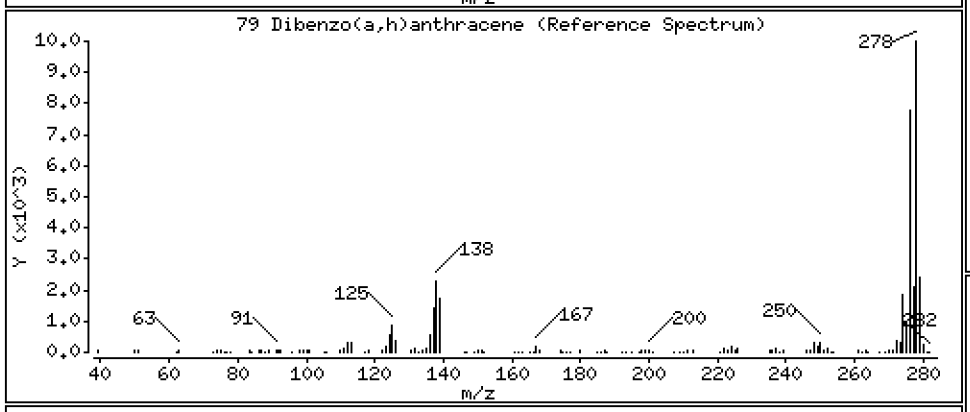
Column diameter: 0.25

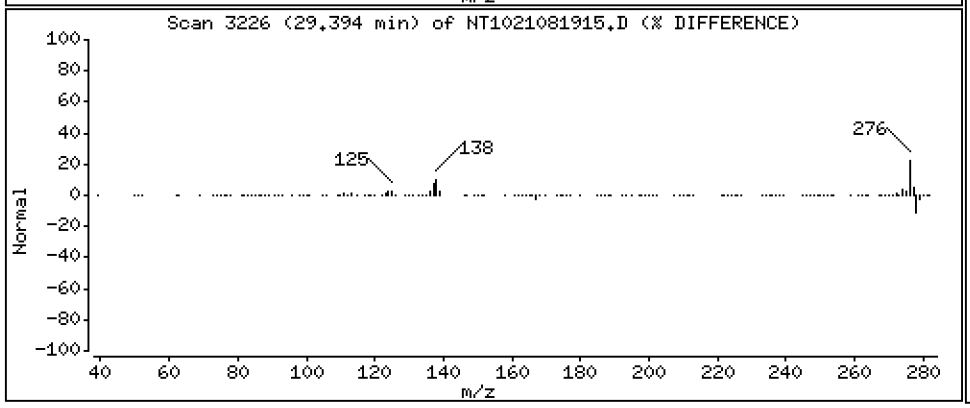
79 Dibenzo(a,h)anthracene

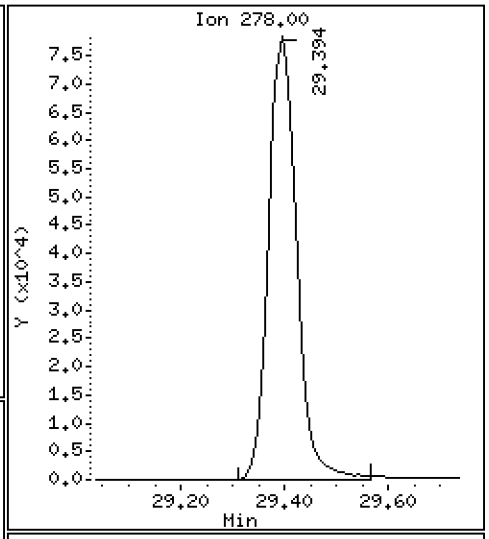
Concentration: 4.838 ug/mL

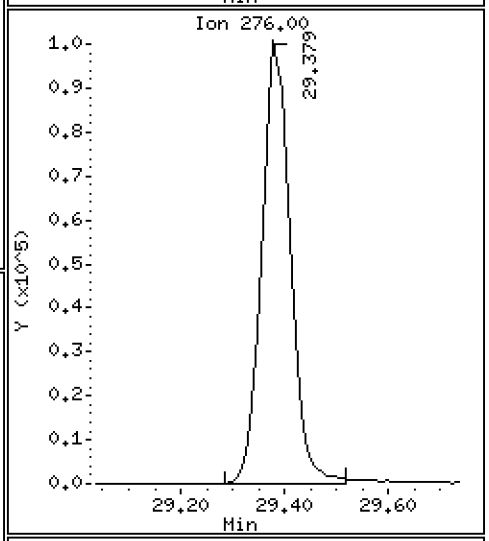


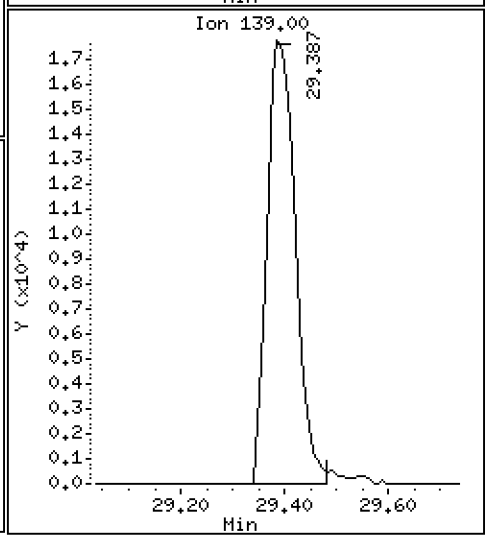












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

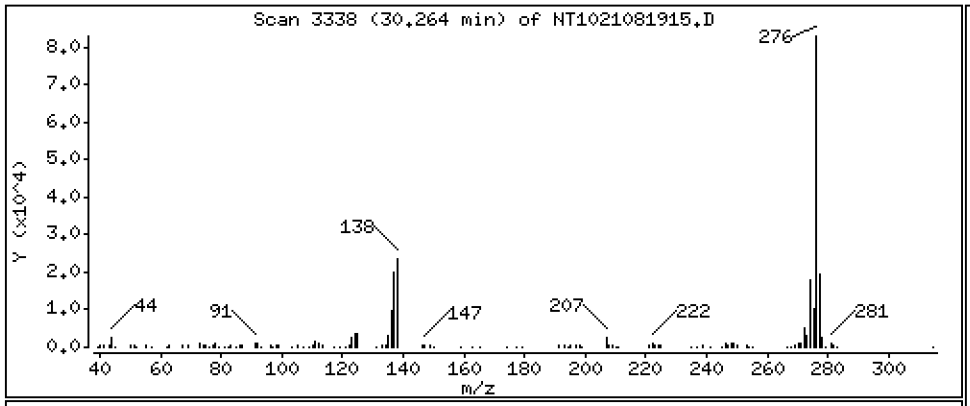
Operator: VTS

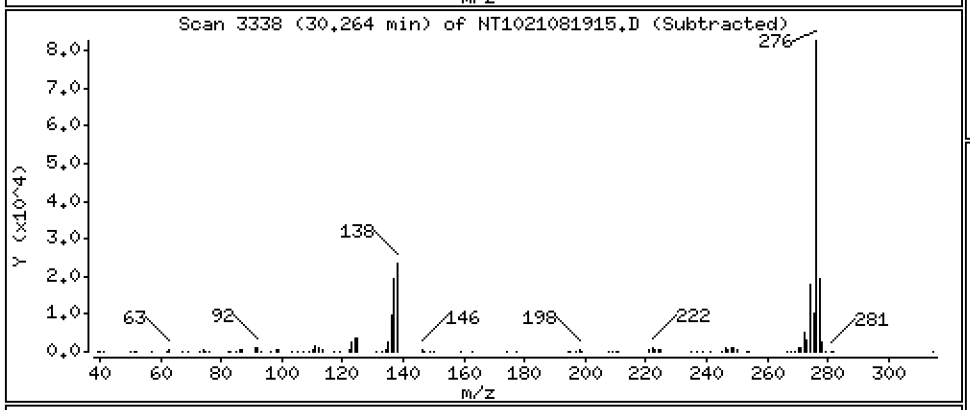
Column phase: ZB-5msi

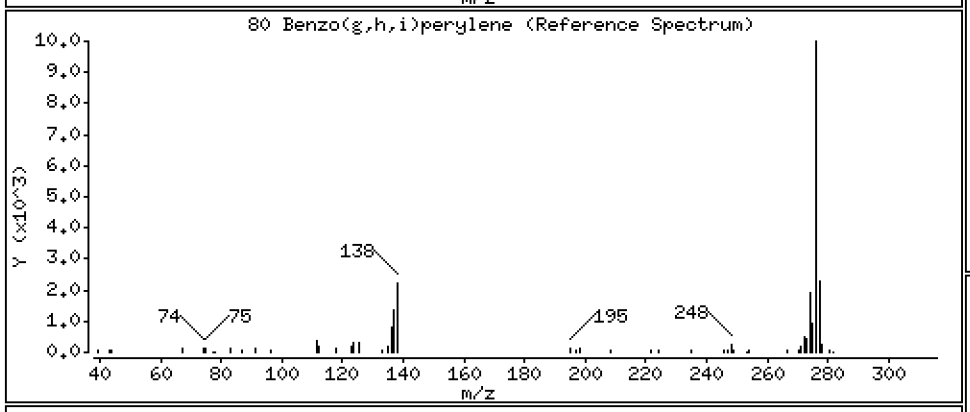
Column diameter: 0.25

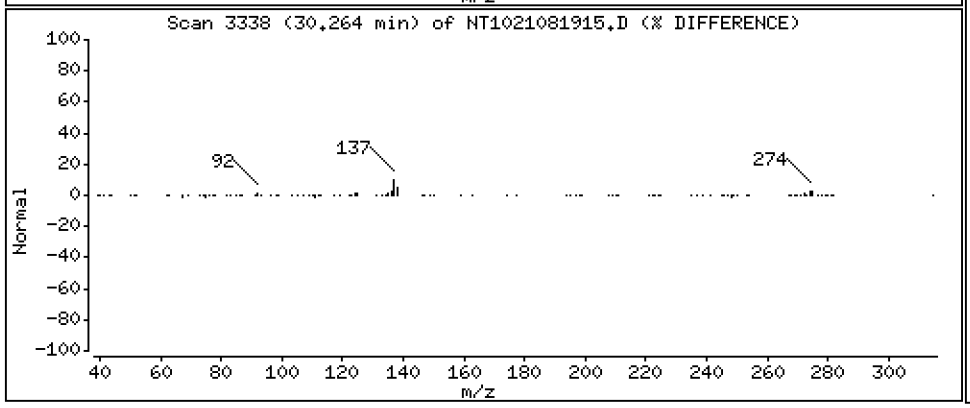
80 Benzo(g,h,i)perylene

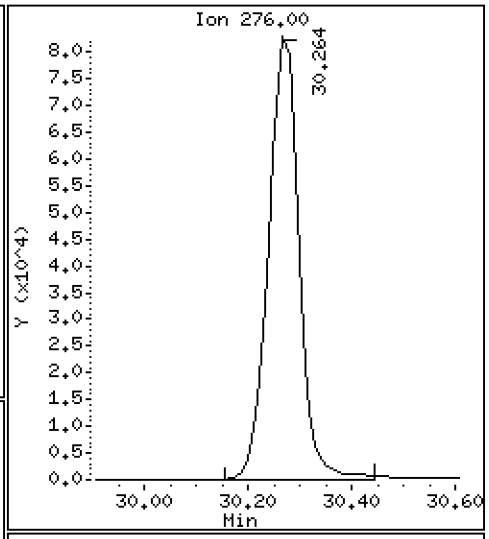
Concentration: 4.923 ug/mL

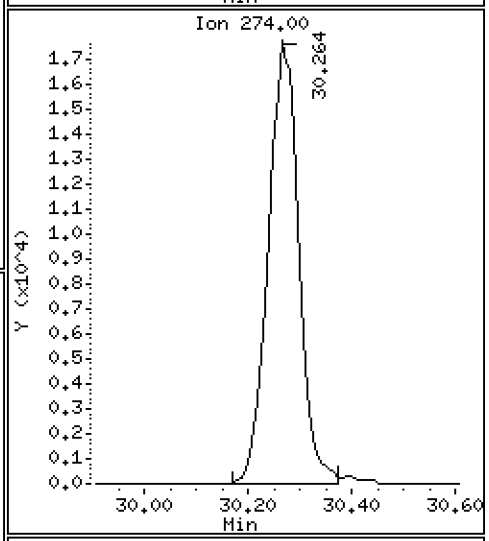


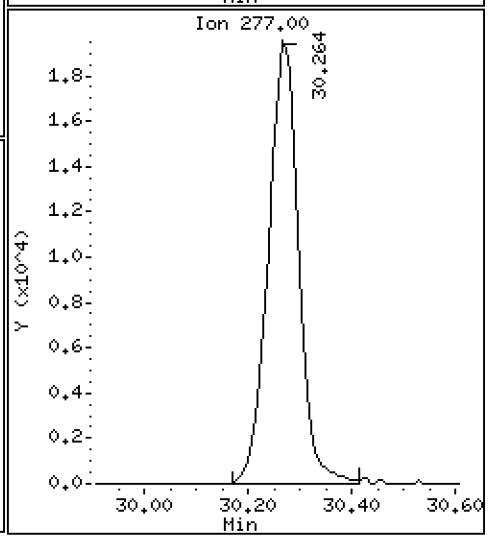












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

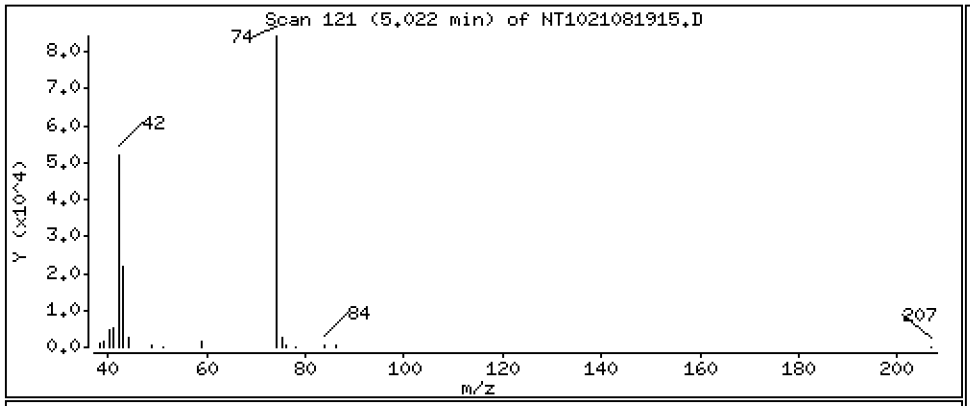
Operator: VTS

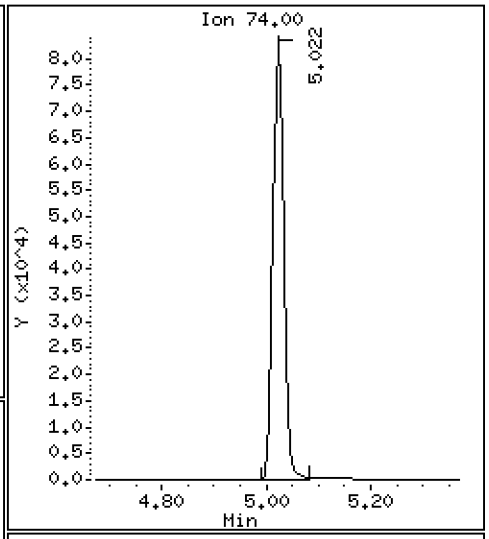
Column phase: ZB-5msi

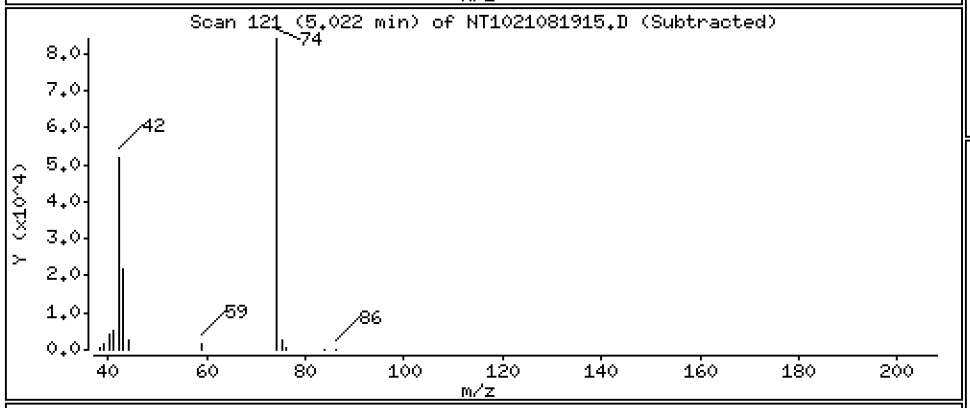
Column diameter: 0.25

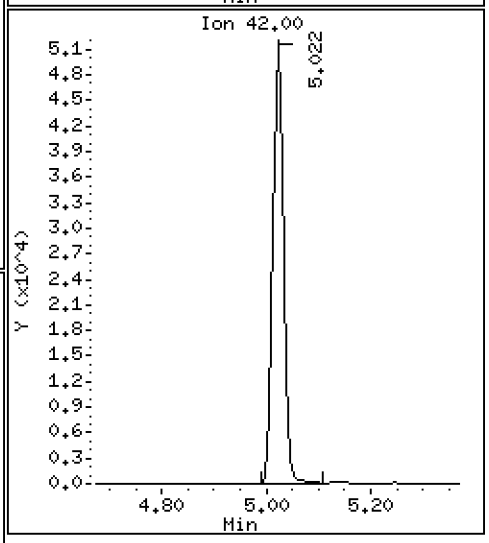
90 N-Nitrosodimethylamine

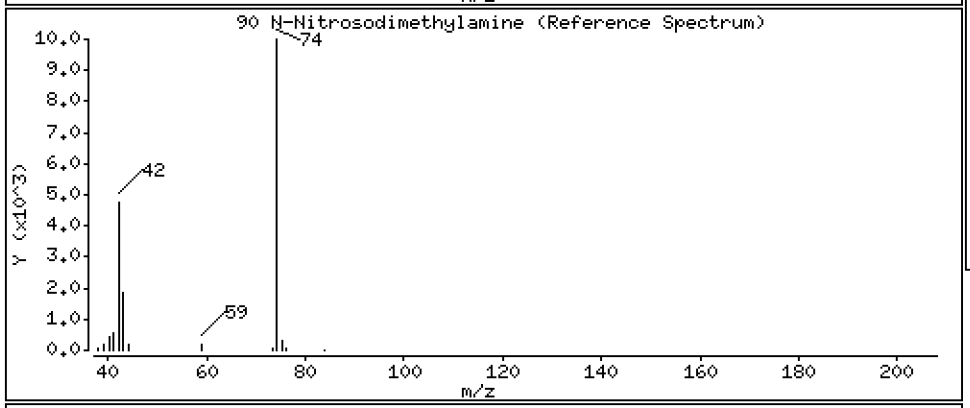
Concentration: 6.037 ug/mL

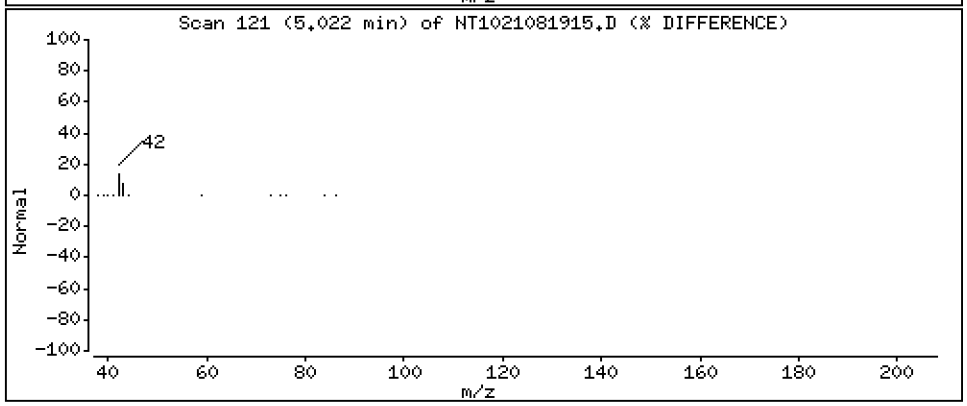












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

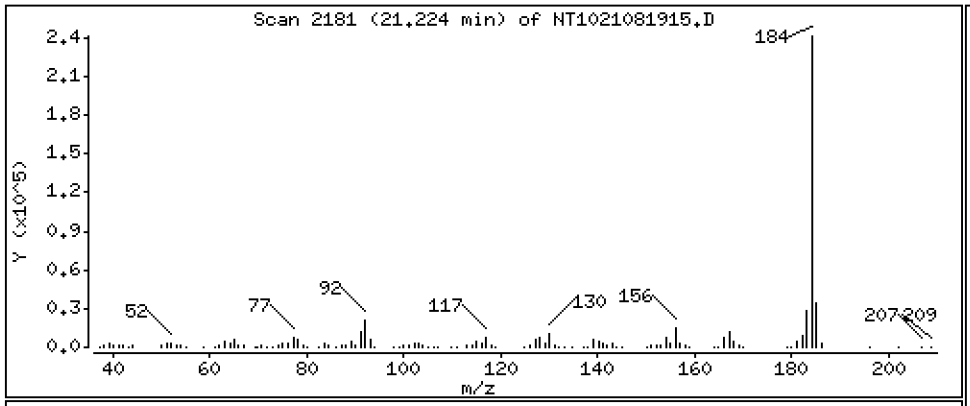
Operator: VTS

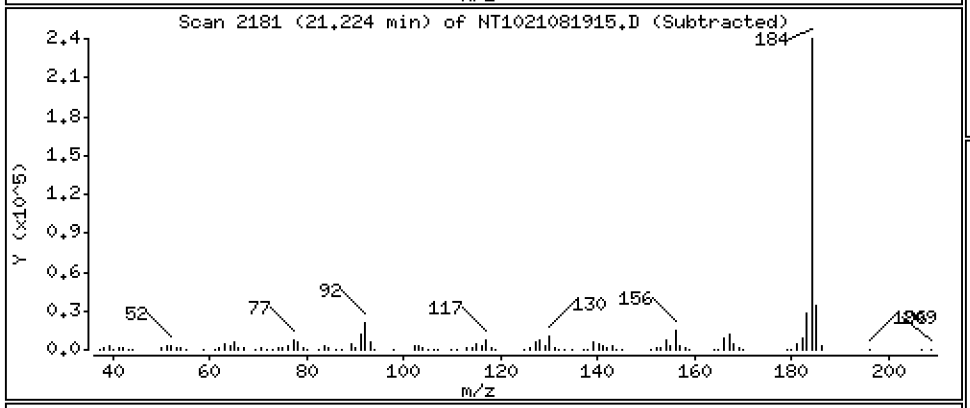
Column phase: ZB-5msi

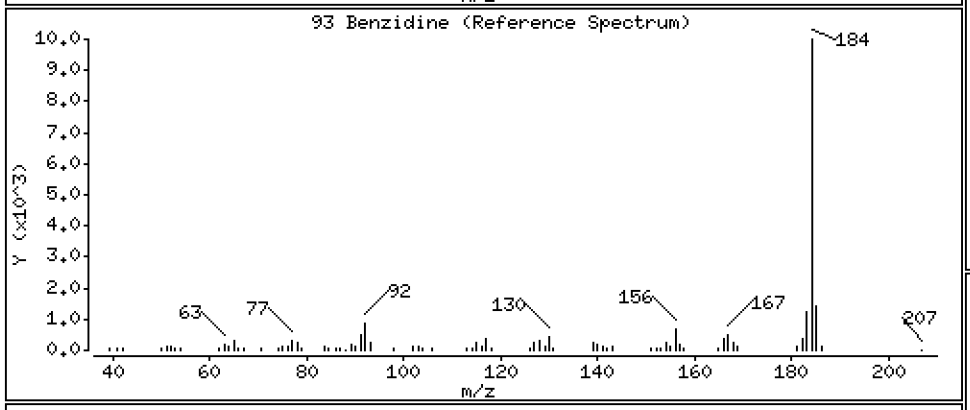
Column diameter: 0.25

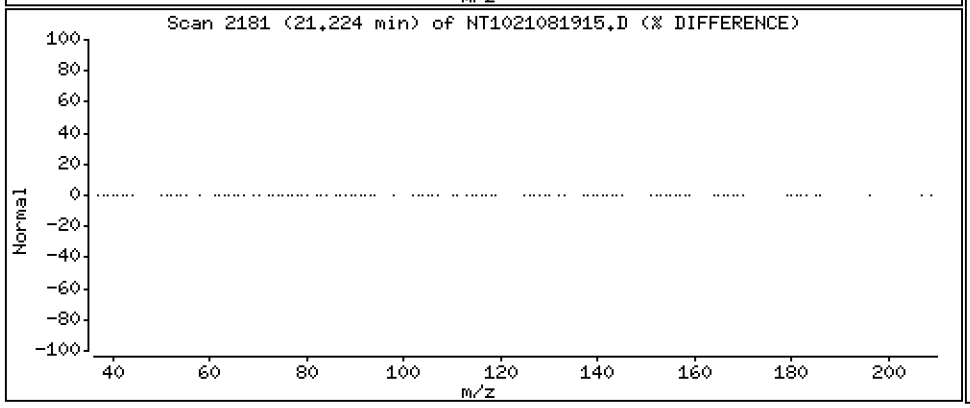
93 Benzidine

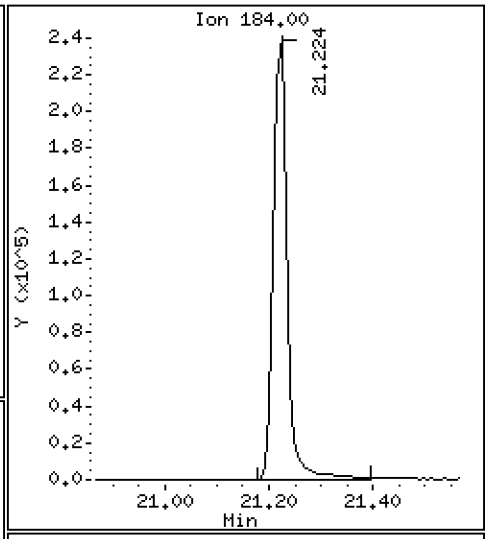
Concentration: 8.480 ug/mL

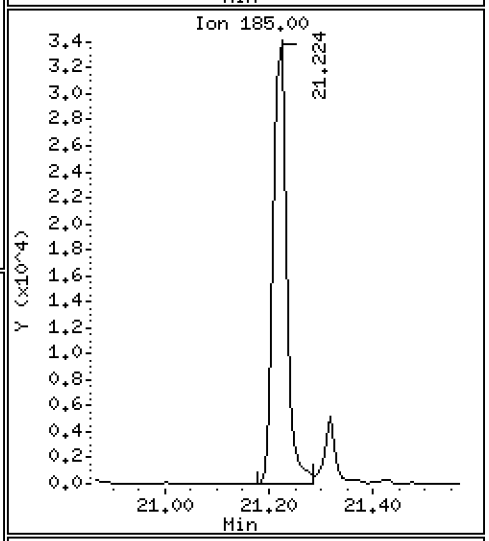


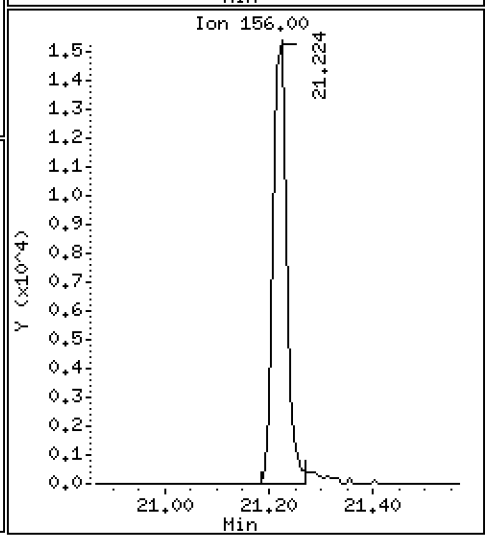












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Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

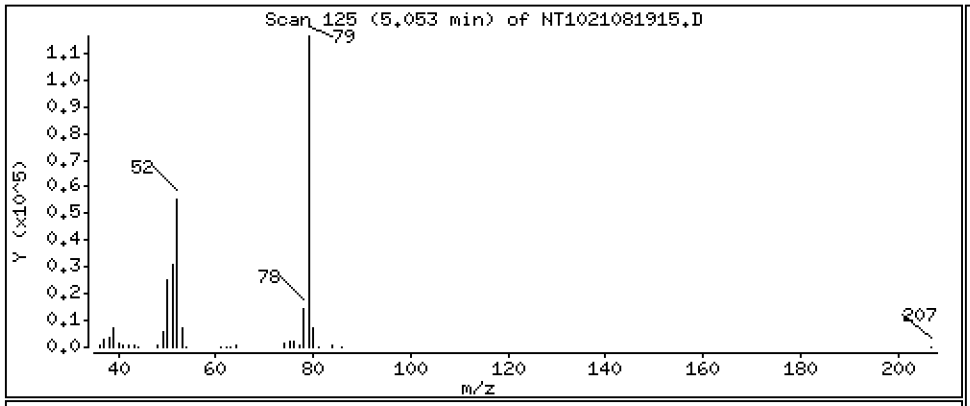
Operator: VTS

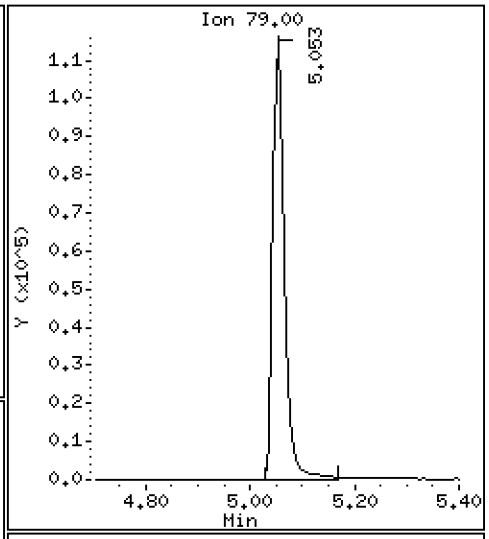
Column phase: ZB-5msi

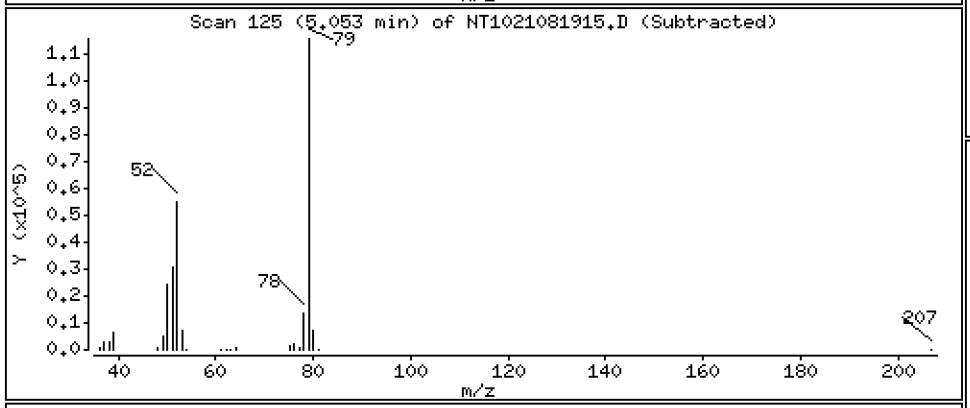
Column diameter: 0.25

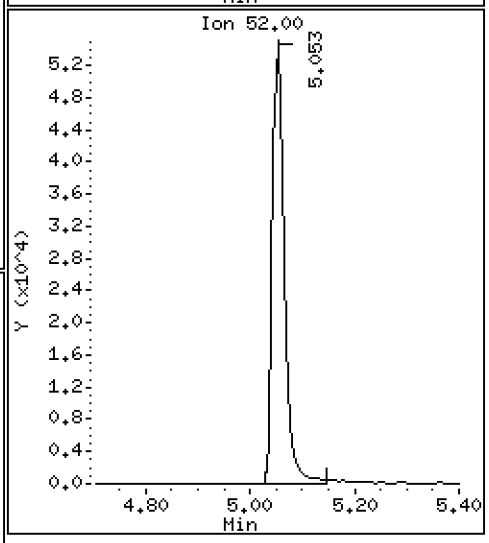
103 Pyridine

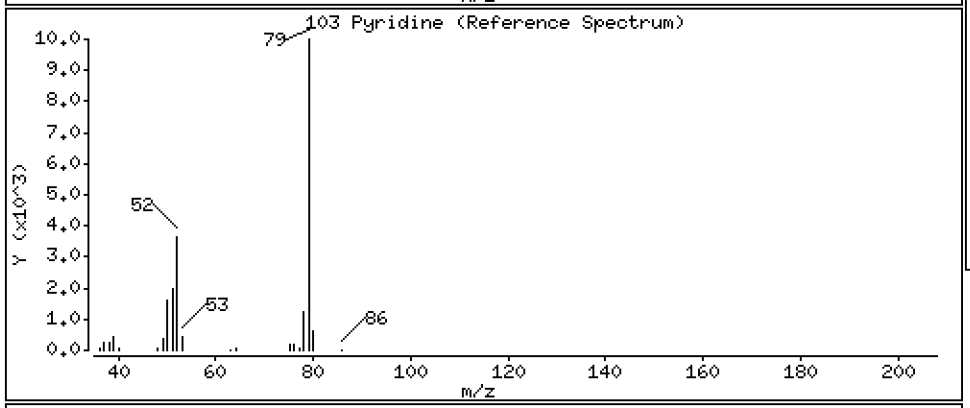
Concentration: 2.866 ug/mL

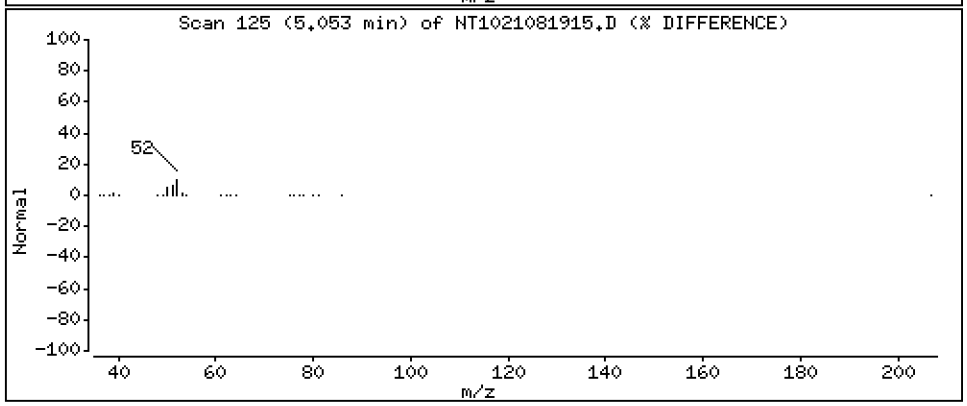












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

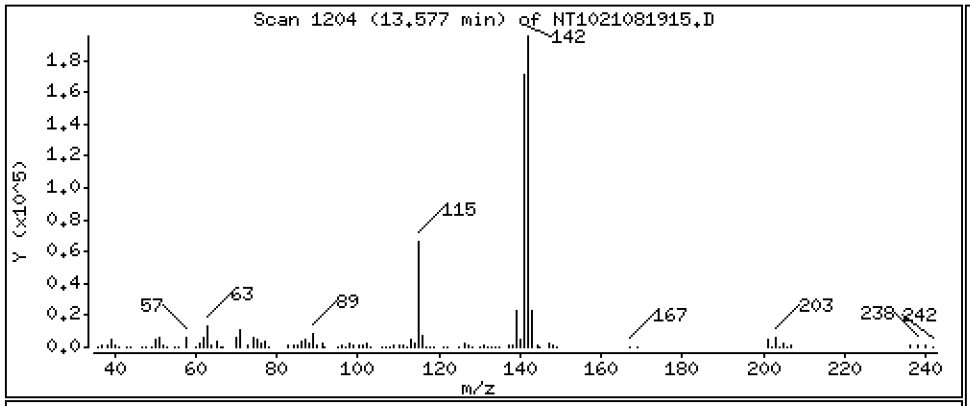
Operator: VTS

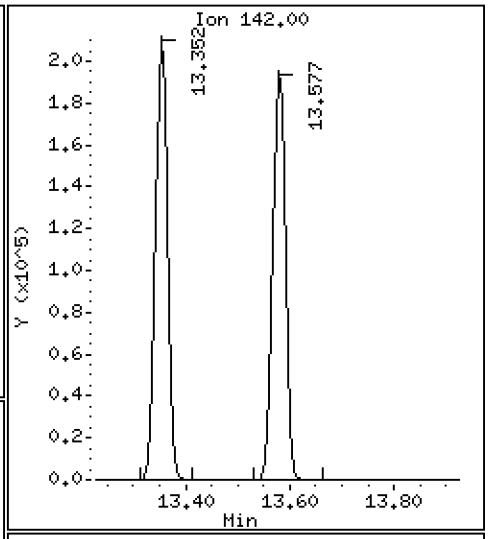
Column phase: ZB-5msi

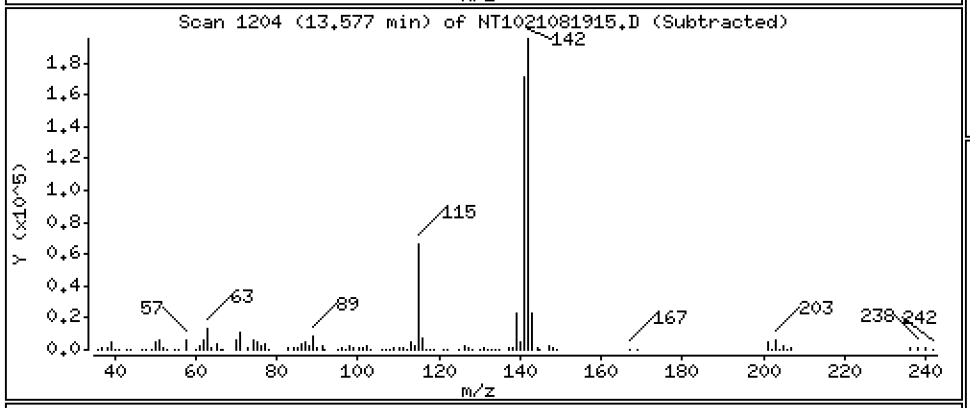
Column diameter: 0.25

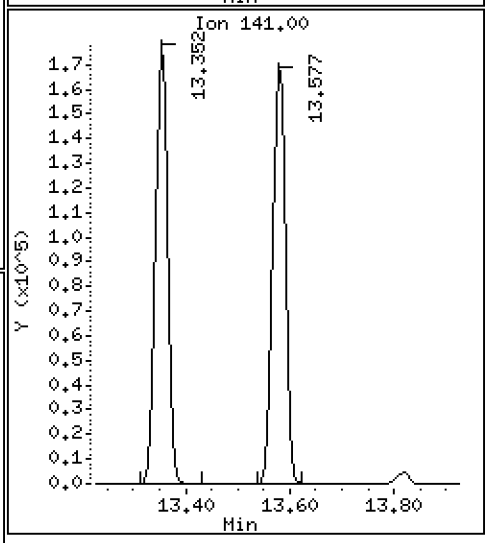
105 1-methylnaphthalene

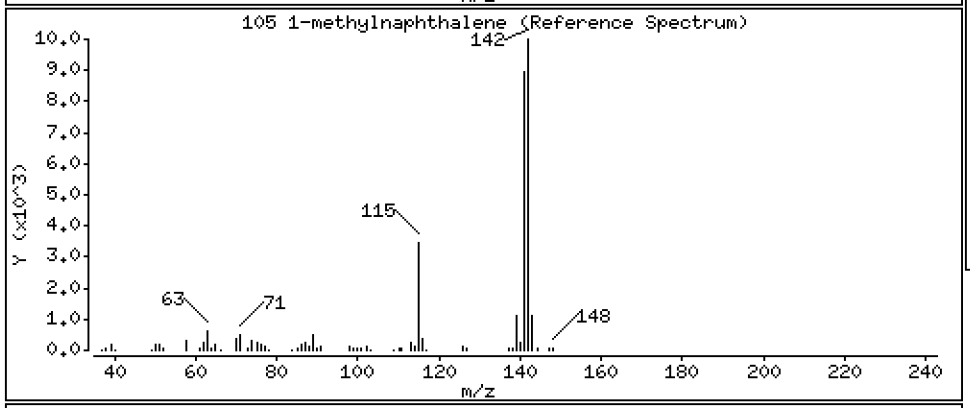
Concentration: 4.815 ug/mL

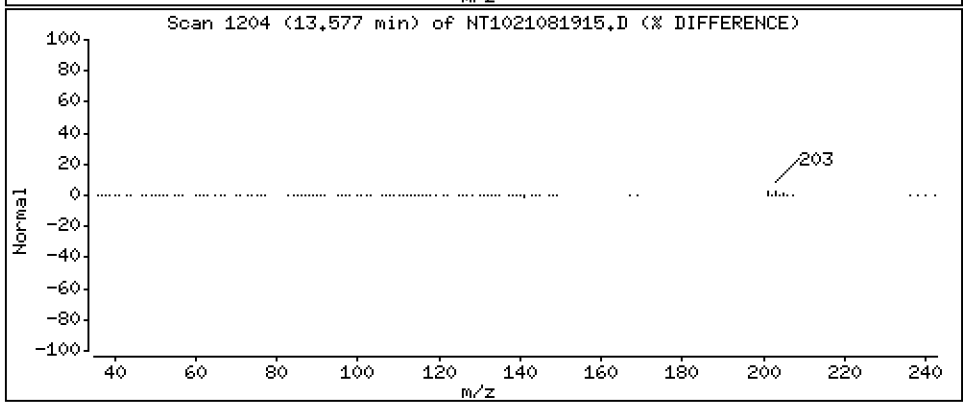












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

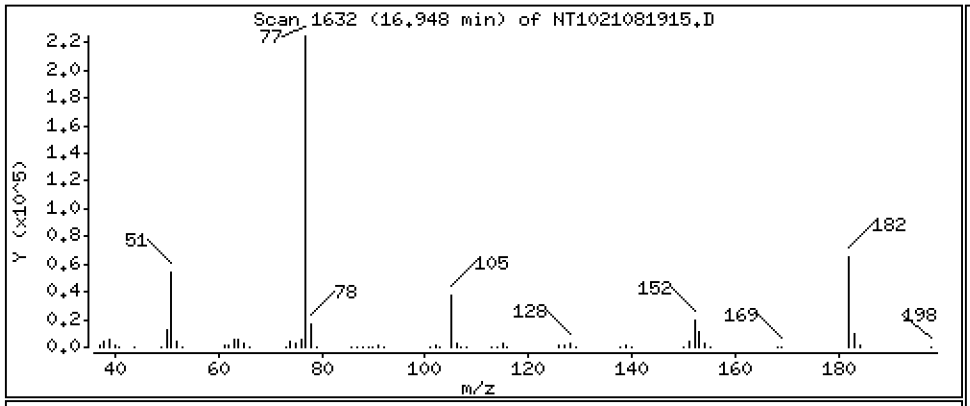
Operator: VTS

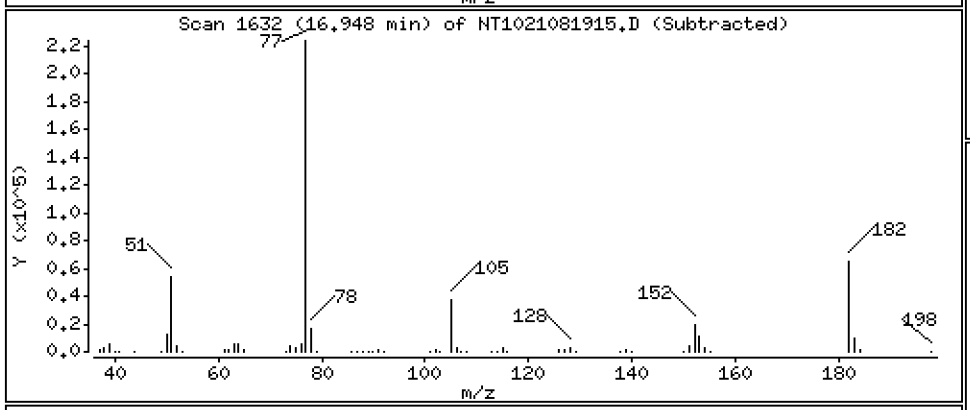
Column phase: ZB-5msi

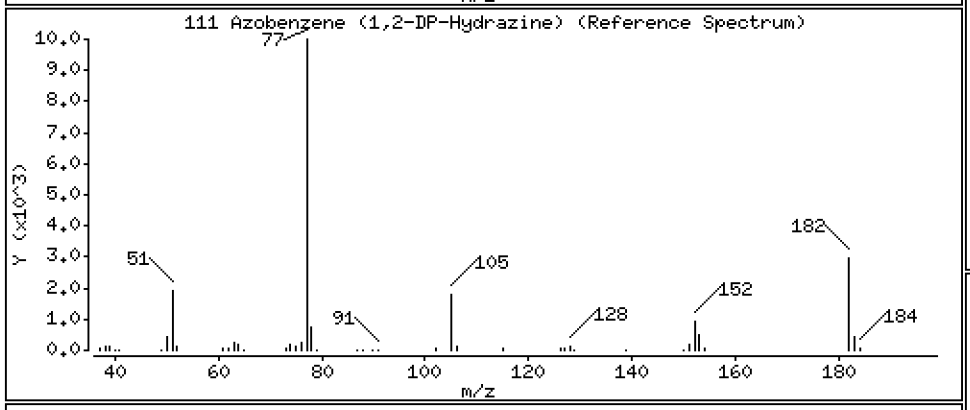
Column diameter: 0.25

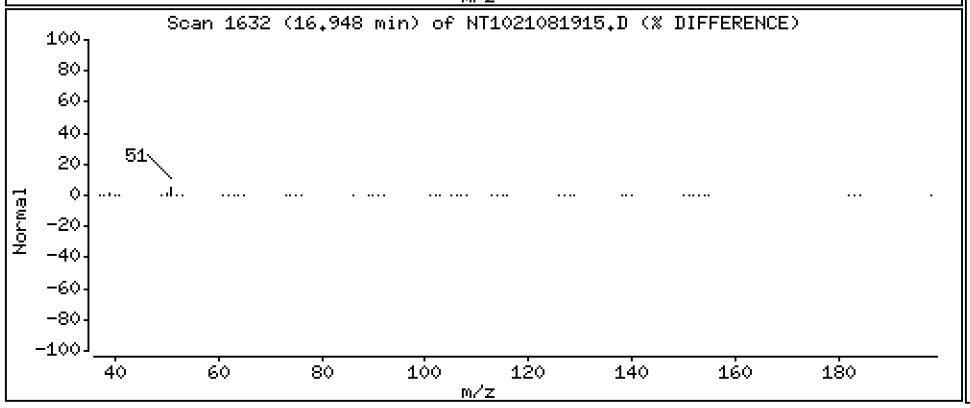
111 Azobenzene (1,2-DP-Hydrazine)

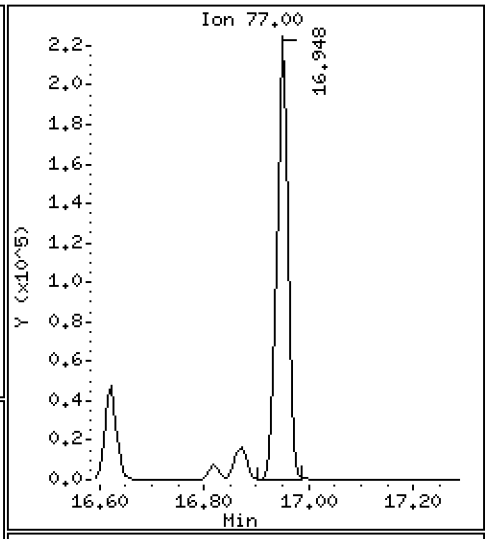
Concentration: 5.417 ug/mL

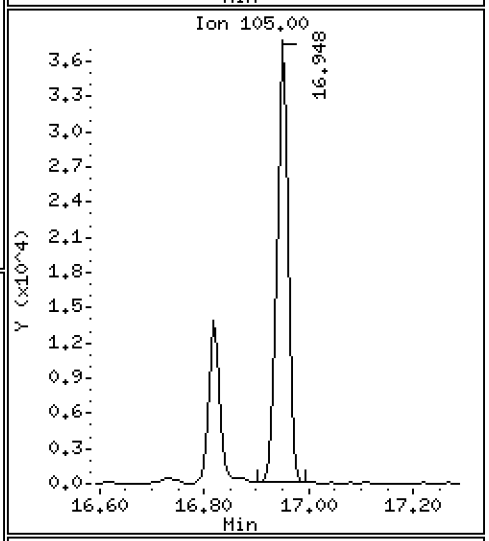


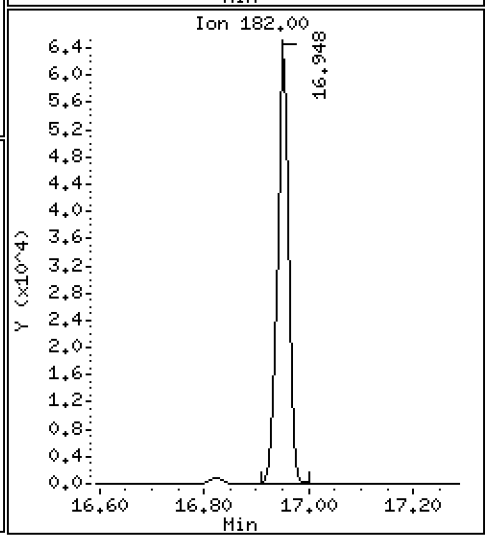












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

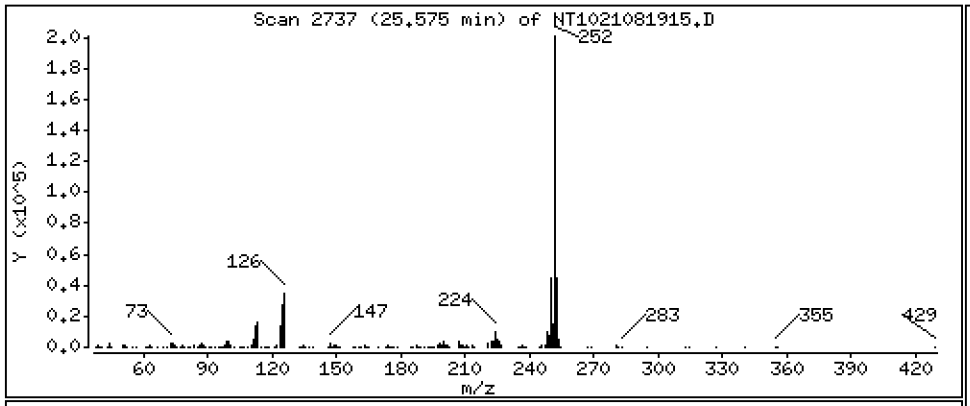
Operator: VTS

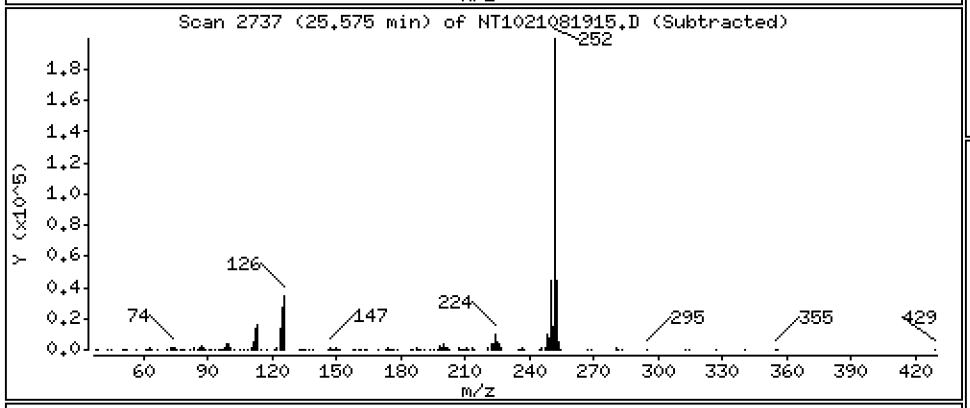
Column phase: ZB-5msi

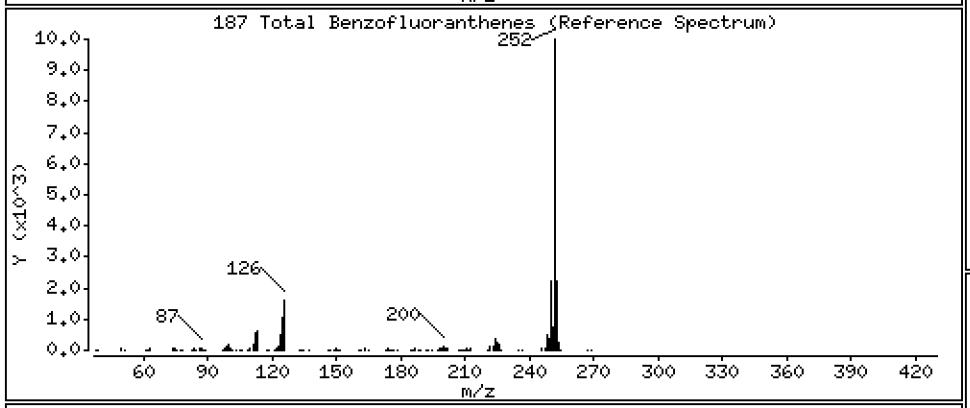
Column diameter: 0.25

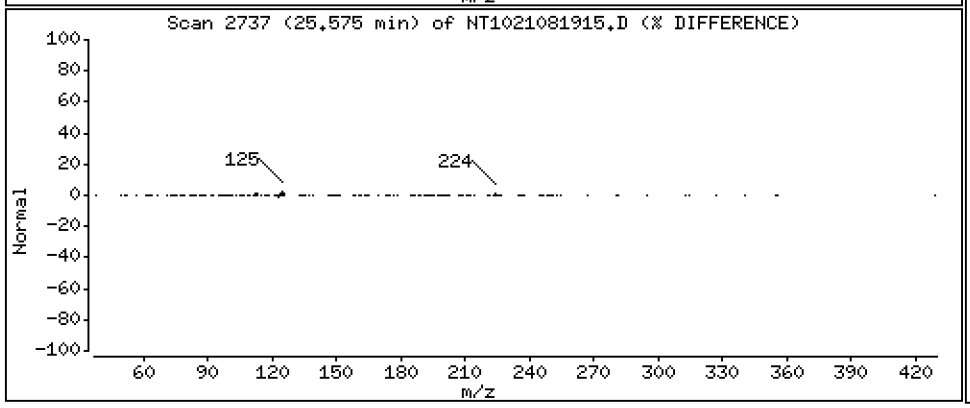
187 Total Benzofluoranthenes

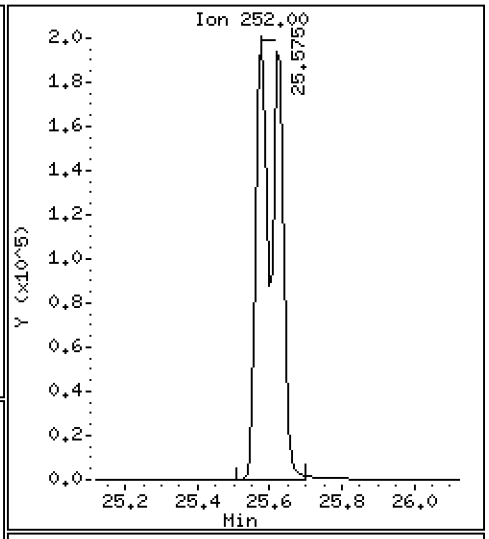
Concentration: 9.959 ug/mL

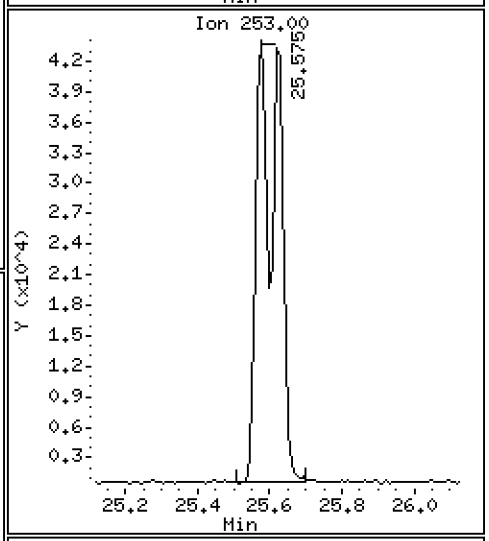


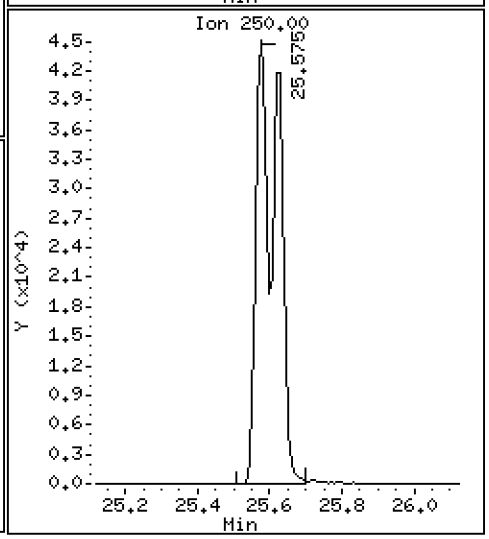












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

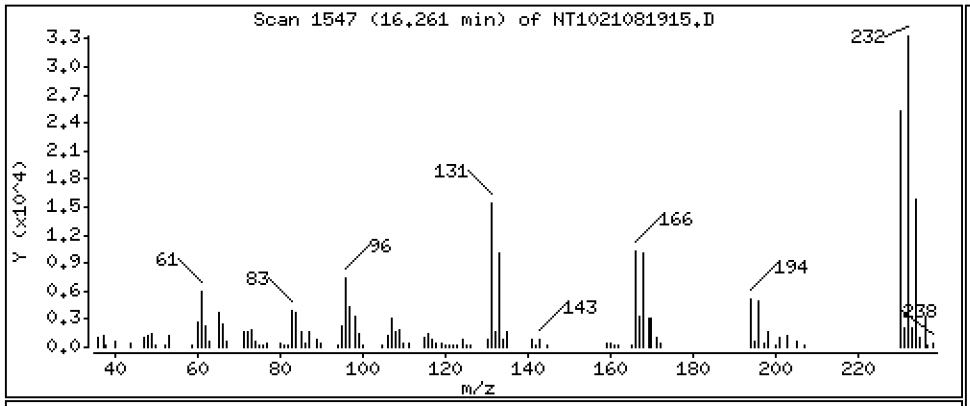
Operator: VTS

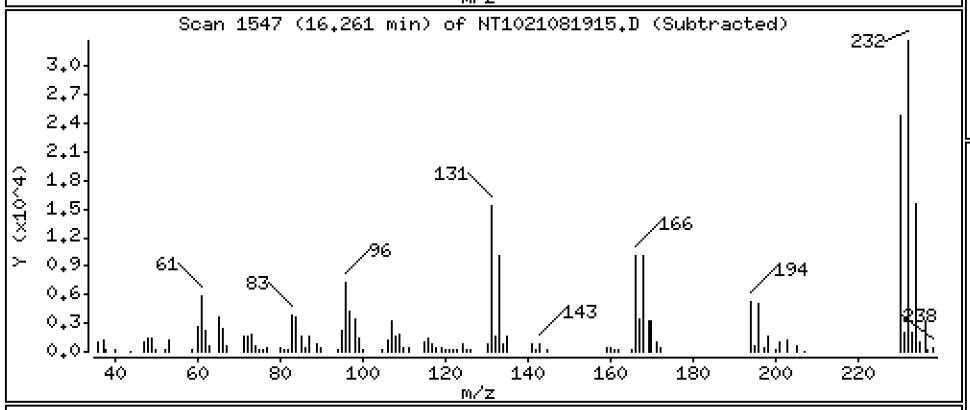
Column phase: ZB-5msi

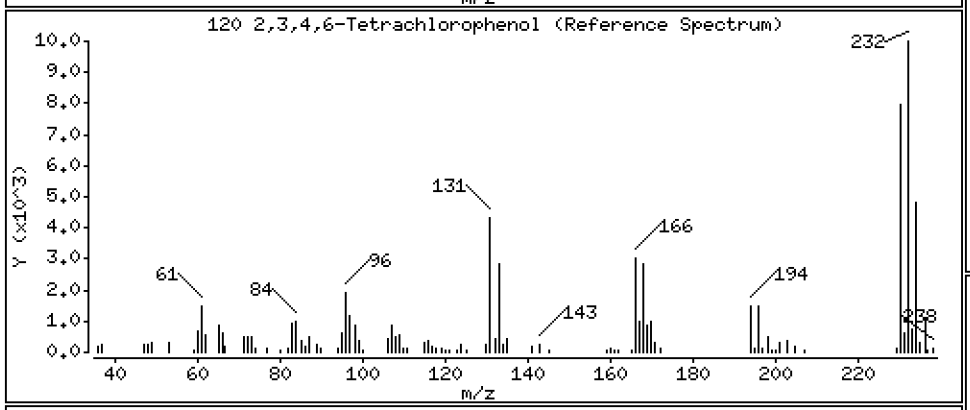
Column diameter: 0.25

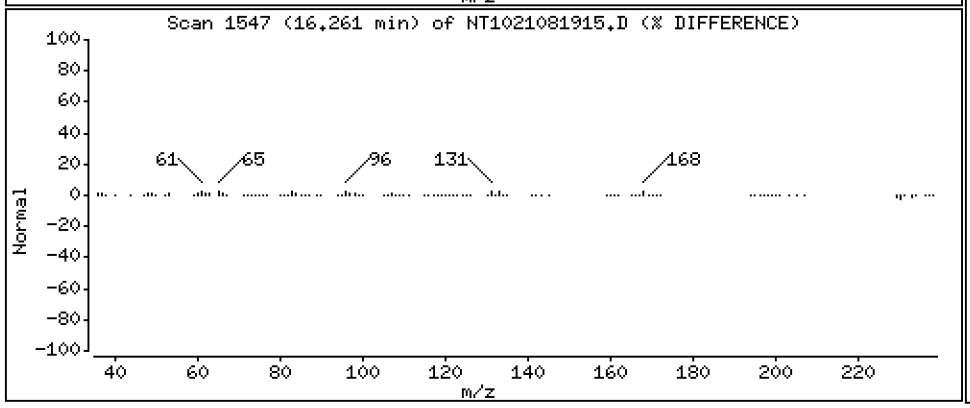
120 2,3,4,6-Tetrachlorophenol

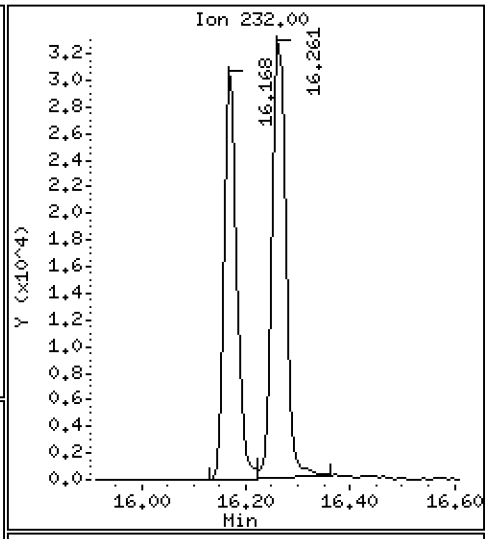
Concentration: 4.467 ug/mL

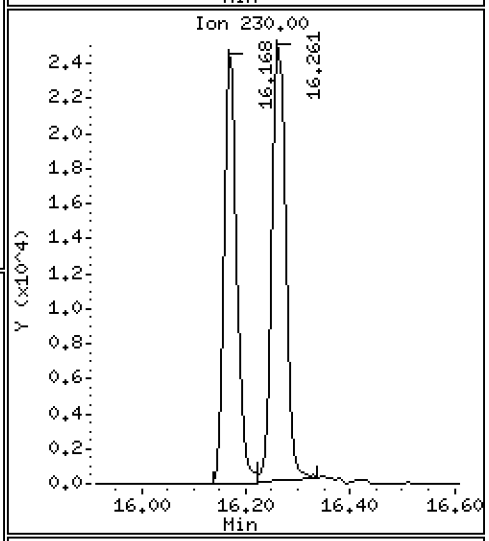


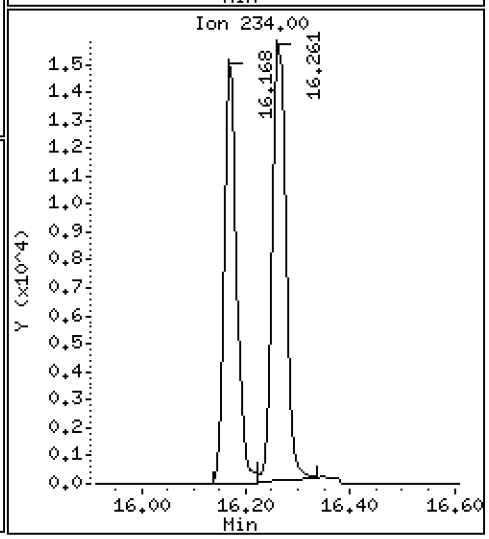












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Inj Date : 19-AUG-2021 20:42
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.784	8.784	(0.931)	199380	5.25899	5.259
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.950)	160344	5.78066	5.781
6	2-Chlorophenol	128	9.093	9.093	(0.964)	158353	5.03366	5.034
7	1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	169628	5.18579	5.186
* 8	1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	86567	4.00000	
9	1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	145074	5.85827	5.858
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	146550	5.20005	5.200
11	Benzyl alcohol	108	9.689	9.689	(1.027)	86052	4.93439	4.934
14	2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	47815	5.72048	5.720
13	2-Methylphenol	108	9.907	9.907	(1.050)	111834	4.65720	4.657
17	Hexachloroethane	117	10.411	10.411	(1.104)	60775	5.67447	5.674
16	N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	89139	5.29189	5.292
15	4-Methylphenol	108	10.178	10.171	(1.079)	120235	4.68765	4.688
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.559	10.559	(0.886)	149166	5.40261	5.403
20	Isophorone	82	11.001	11.001	(0.923)	331869	7.77753	7.778
21	2-Nitrophenol	139	11.186	11.186	(0.938)	81411	5.17753	5.178
22	2,4-Dimethylphenol	107	11.220	11.220	(0.941)	119391	4.92042	4.920
23	Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	149566	5.93771	5.938
24	Benzoic acid	105	11.381	11.339	(0.955)	66350	5.37792	5.378
25	2,4-Dichlorophenol	162	11.644	11.636	(0.977)	127985	5.14677	5.147
26	1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	120347	5.00026	5.000
* 27	Naphthalene-d8	136	11.921	11.913	(1.000)	286011	4.00000	
28	Naphthalene	128	11.959	11.959	(1.003)	361857	5.09980	5.100
29	4-Chloroaniline	127	12.083	12.075	(1.014)	157895	4.59294	4.593
30	Hexachlorobutadiene	225	12.315	12.307	(1.033)	67621	5.10670	5.107
31	4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	123056	4.92458	4.925
32	2-Methylnaphthalene	142	13.352	13.352	(1.120)	319793	4.72280	4.723
33	Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	54933	4.31449	4.314

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	84924	4.77039	4.770
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	91907	4.91422	4.914
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	14.350	14.350	(0.923)	311867	5.58535	5.585
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	82438	4.97238	4.972
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	286677	4.97899	4.979
	40 Acenaphthylene	152	15.225	15.225	(0.980)	417239	4.79575	4.796
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.976)	68264	5.36851	5.369
*	42 Acenaphthene-d10	164	15.542	15.534	(1.000)	175555	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	78104	4.56188	4.562
	44 Acenaphthene	153	15.604	15.596	(1.004)	228953	4.97526	4.975
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.008)	11153	1.66462	1.665
	46 Dibenzofuran	168	15.928	15.928	(1.025)	383631	4.69138	4.691
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	24955	4.01803	4.018
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.028)	90638	5.10639	5.106
	50 Diethylphthalate	149	16.477	16.470	(1.060)	264476	5.09602	5.096
	49 Fluorene	166	16.647	16.640	(1.071)	342768	4.72294	4.723
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	168489	5.18664	5.187
	52 4-Nitroaniline	138	16.732	16.724	(1.077)	85236	4.78806	4.788
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	50611	3.88483	3.885
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	227997	4.83479	4.835
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.948)	102044	5.39862	5.399
	57 Hexachlorobenzene	284	17.959	17.951	(0.966)	90728	5.06340	5.063
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	20638	3.12000	3.120
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	315282	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.002)	373708	4.85494	4.855
	61 Anthracene	178	18.725	18.717	(1.007)	398068	4.81320	4.813
	62 Carbazole	167	19.050	19.042	(1.025)	423459	4.97150	4.972
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	566417	5.37515	5.375
	64 Fluoranthene	202	21.000	20.992	(0.889)	552591	4.85305	4.853
	65 Pyrene	202	21.425	21.417	(0.908)	568141	4.86161	4.862
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	224852	4.88885	4.889
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	436185	4.79967	4.800
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	260128	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.996)	319253	8.82970	8.830
	71 Chrysene	228	23.647	23.647	(1.002)	337651	4.68662	4.687
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	258287	5.36165	5.362
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	500551	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	576721	5.22766	5.228
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	423157	4.87661	4.877
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	441864	5.19450	5.195
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	381697	4.97952	4.980
*	77 Perylene-d12	264	26.427	26.419	(1.000)	235857	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.378	29.371	(1.112)	384449	4.85499	4.855
	79 Dibenzo(a,h)anthracene	278	29.394	29.386	(1.112)	293070	4.83753	4.838
	80 Benzo(g,h,i)perylene	276	30.264	30.256	(1.145)	340450	4.92315	4.923
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.532)	112508	6.03654	6.037
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	21.224	21.216	(0.899)	417920	8.48003	8.480
	103 Pyridine	79	5.052	5.052	(0.536)	168778	2.86646	2.866
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	314464	4.81470	4.815
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.090)	324373	5.41670	5.417

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.575	25.621	(0.968)	824481	9.95946	9.959
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.046)	57716	4.46735	4.467

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	86567	-11.23
27 Naphthalene-d8	336155	168078	672310	286011	-14.92
42 Acenaphthene-d10	204971	102486	409942	175555	-14.35
59 Phenanthrene-d10	357720	178860	715440	315282	-11.86
69 Chrysene-d12	291052	145526	582104	260128	-10.62
134 Di-n-octylphthala	588887	294444	1177774	500551	-15.00
77 Perylene-d12	273109	136555	546218	235857	-13.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.54	0.05
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081915.D

Lab ID: SJH0235-SCV1
nt10.i, ABN.m, 19-AUG-2021 20:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1021081912.D

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

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

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081916.D

Page 1

Date : 19-AUG-2021 21:20

Client ID:

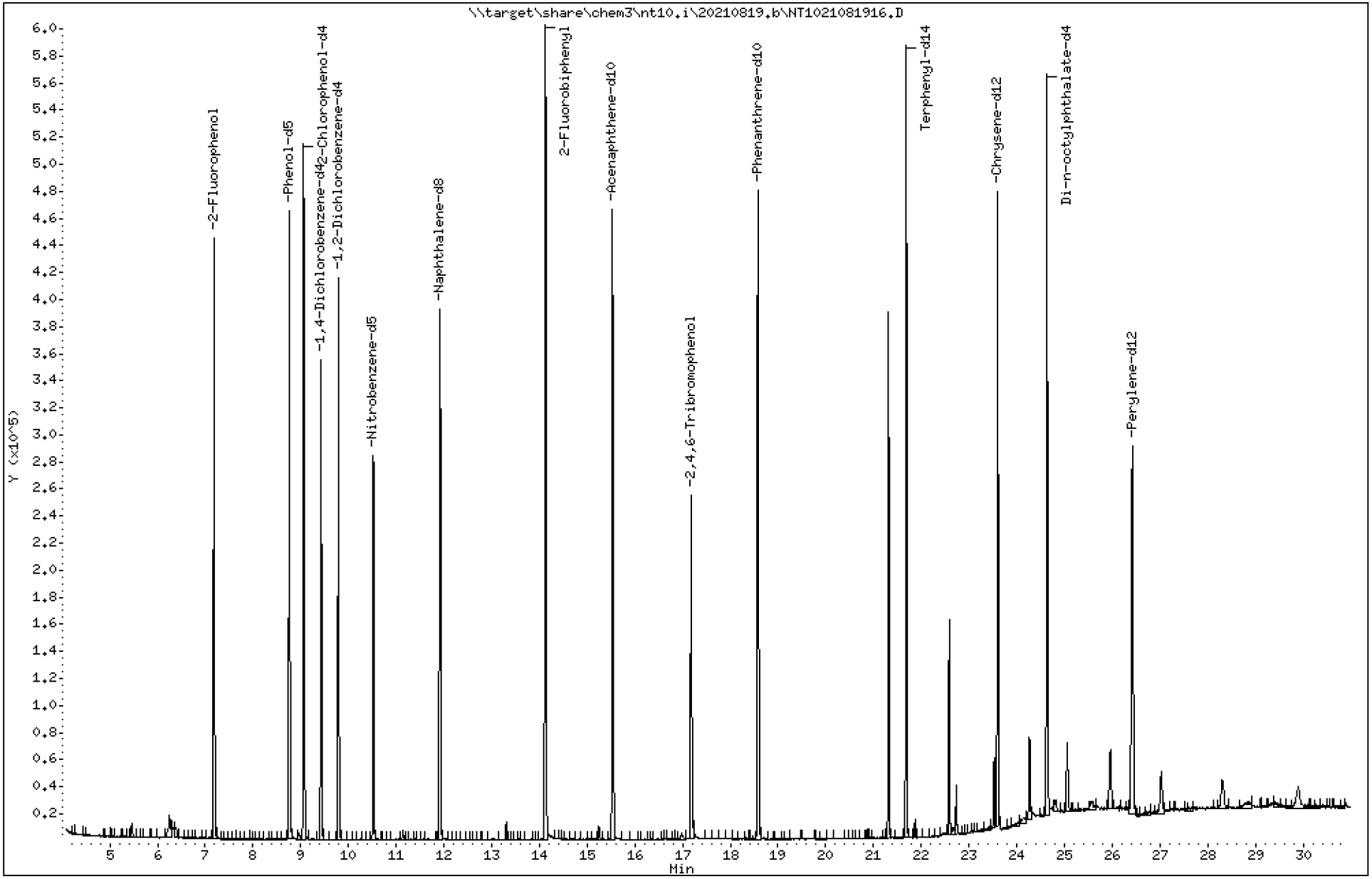
Instrument: nt10.i

Sample Info: SJH0235-ICB1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081916.D
Lab Smp Id: SJH0235-ICB1
Inj Date : 19-AUG-2021 21:20
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.184	7.184	(0.762)	203658	6.33513	6.335
$	2 Phenol-d5	99	8.760	8.761	(0.929)	277384	6.02867	6.029
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	9.061	9.062	(0.961)	234466	7.15367	7.154
	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	9.425	9.426	(1.000)	96156	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.790	9.790	(1.039)	106621	4.78900	4.789
	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	10.520	10.520	(0.882)	156094	4.46244	4.462
	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	11.920	11.913	(1.000)	334081	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 MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	14.125	14.126	(0.909)	345879	4.56980	4.570
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.534	15.534	(1.000)	189445	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	Compound Not Detected.					
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	17.179	17.180	(1.106)	46360	6.37905	6.379
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.578	18.578	(1.000)	329398	4.00000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	21.688	21.688	(0.919)	339450	4.69162	4.692
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	23.600	23.601	(1.000)	256298	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	Compound Not Detected.					
	72 bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134 Di-n-octylphthalate-d4	153	24.630	24.630	(1.000)	434712	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	26.418	26.419	(1.000)	233002	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081916.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081916.D
Lab Smp Id: SJH0235-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	96156	-1.40
27 Naphthalene-d8	336155	168078	672310	334081	-0.62
42 Acenaphthene-d10	204971	102486	409942	189445	-7.57
59 Phenanthrene-d10	357720	178860	715440	329398	-7.92
69 Chrysene-d12	291052	145526	582104	256298	-11.94
134 Di-n-octylphthala	588887	294444	1177774	434712	-26.18
77 Perylene-d12	273109	136555	546218	233002	-14.69

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	-0.08
27 Naphthalene-d8	11.92	11.42	12.42	11.92	-0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.53	-0.00
59 Phenanthrene-d10	18.59	18.09	19.09	18.58	-0.04
69 Chrysene-d12	23.61	23.11	24.11	23.60	-0.03
134 Di-n-octylphthala	24.64	24.14	25.14	24.63	-0.03
77 Perylene-d12	26.43	25.93	26.93	26.42	-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 - NT1021081916.D

Lab ID: SJH0235-ICB1
nt10.i, ABN.m, 19-AUG-2021 21:20

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1021081912.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Calibration: EH00053
Sequence: SJH0235

SDG: 21H0263
Project: Lower Duwamish AOC4
Laboratory ID: SJH0235-SCV1
Sequence Name: SCV 5.0
Standard ID: J008837

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	5.3	5.2	20.00
bis(2-chloroethyl) ether	5.0000	5.8	15.6	20.00
2-Chlorophenol	5.0000	5.0	0.7	20.00
1,3-Dichlorobenzene	5.0000	5.2	3.7	20.00
1,4-Dichlorobenzene	5.0000	5.9	17.2	20.00
1,2-Dichlorobenzene	5.0000	5.2	4.0	20.00
Benzyl Alcohol	5.0000	4.9	-1.3	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	5.7	14.4	20.00
2-Methylphenol	5.0000	4.7	-6.9	20.00
Hexachloroethane	5.0000	5.7	13.5	20.00
N-Nitroso-di-n-Propylamine	5.0000	5.3	5.8	20.00
4-Methylphenol	5.0000	4.7	-6.2	20.00
Nitrobenzene	5.0000	5.4	8.1	20.00
Isophorone	5.0000	7.8	55.6 *	20.00
2-Nitrophenol	5.0000	5.2	3.6	20.00
2,4-Dimethylphenol	5.0000	4.9	-1.6	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.9	18.8	20.00
2,4-Dichlorophenol	5.0000	5.1	2.9	20.00
1,2,4-Trichlorobenzene	5.0000	5.0	0.005	20.00
Naphthalene	5.0000	5.1	2.0	20.00
Benzoic acid	10.000	5.4	-46.2 *	20.00
4-Chloroaniline	5.0000	4.6	-8.1	20.00
Hexachlorobutadiene	5.0000	5.1	2.1	20.00
4-Chloro-3-Methylphenol	5.0000	4.9	-1.5	20.00
2-Methylnaphthalene	5.0000	4.7	-5.5	20.00
Hexachlorocyclopentadiene	5.0000	4.3	-13.7	20.00
2,4,6-Trichlorophenol	5.0000	4.8	-4.6	20.00
2,4,5-Trichlorophenol	5.0000	4.9	-1.7	20.00
2-Chloronaphthalene	5.0000	5.6	11.7	20.00
2-Nitroaniline	5.0000	5.0	-0.6	20.00
Acenaphthylene	5.0000	4.8	-4.1	20.00
Dimethylphthalate	5.0000	5.0	-0.4	20.00
2,6-Dinitrotoluene	5.0000	5.4	7.4	20.00
Acenaphthene	5.0000	5.0	-0.5	20.00
3-Nitroaniline	5.0000	4.6	-8.8	20.00

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Calibration: EH00053
Laboratory ID: SJH0235-SCV1
Sequence: SJH0235
Sequence Name: SCV 5.0
Standard ID: J008837

2,4-Dinitrophenol	5.0000	1.7	-66.7 *	20.00
Dibenzofuran	5.0000	4.7	-6.2	20.00
4-Nitrophenol	5.0000	4.0	-19.6	20.00
2,4-Dinitrotoluene	5.0000	5.1	2.1	20.00
Fluorene	5.0000	4.7	-5.5	20.00
4-Chlorophenylphenyl ether	5.0000	5.2	3.7	20.00
Diethyl phthalate	5.0000	5.1	1.9	20.00
4-Nitroaniline	5.0000	4.8	-4.2	20.00
4,6-Dinitro-2-methylphenol	5.0000	3.9	-22.3 *	20.00
N-Nitrosodiphenylamine	5.0000	4.8	-3.3	20.00
4-Bromophenyl phenyl ether	5.0000	5.4	8.0	20.00
Hexachlorobenzene	5.0000	5.1	1.3	20.00
Pentachlorophenol	5.0000	3.1	-37.6 *	20.00
Phenanthrene	5.0000	4.9	-2.9	20.00
Anthracene	5.0000	4.8	-3.7	20.00
Carbazole	5.0000	5.0	-0.6	20.00
Di-n-Butylphthalate	5.0000	5.4	7.5	20.00
Fluoranthene	5.0000	4.9	-2.9	20.00
Pyrene	5.0000	4.9	-2.8	20.00
Butylbenzylphthalate	5.0000	4.9	-2.2	20.00
Benzo(a)anthracene	5.0000	4.8	-4.0	20.00
3,3'-Dichlorobenzidine	10.000	8.8	-11.7	20.00
Chrysene	5.0000	4.7	-6.3	20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.4	7.2	20.00
Di-n-Octylphthalate	5.0000	5.2	4.6	20.00
Benzofluoranthenes, Total	10.000	10.0	-0.4	20.00
Benzo(a)pyrene	5.0000	5.0	-0.4	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.9	-2.9	20.00
Dibenzo(a,h)anthracene	5.0000	4.8	-3.2	20.00
Benzo(g,h,i)perylene	5.0000	4.9	-1.5	20.00
1-Methylnaphthalene	5.0000	4.8	-3.7	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

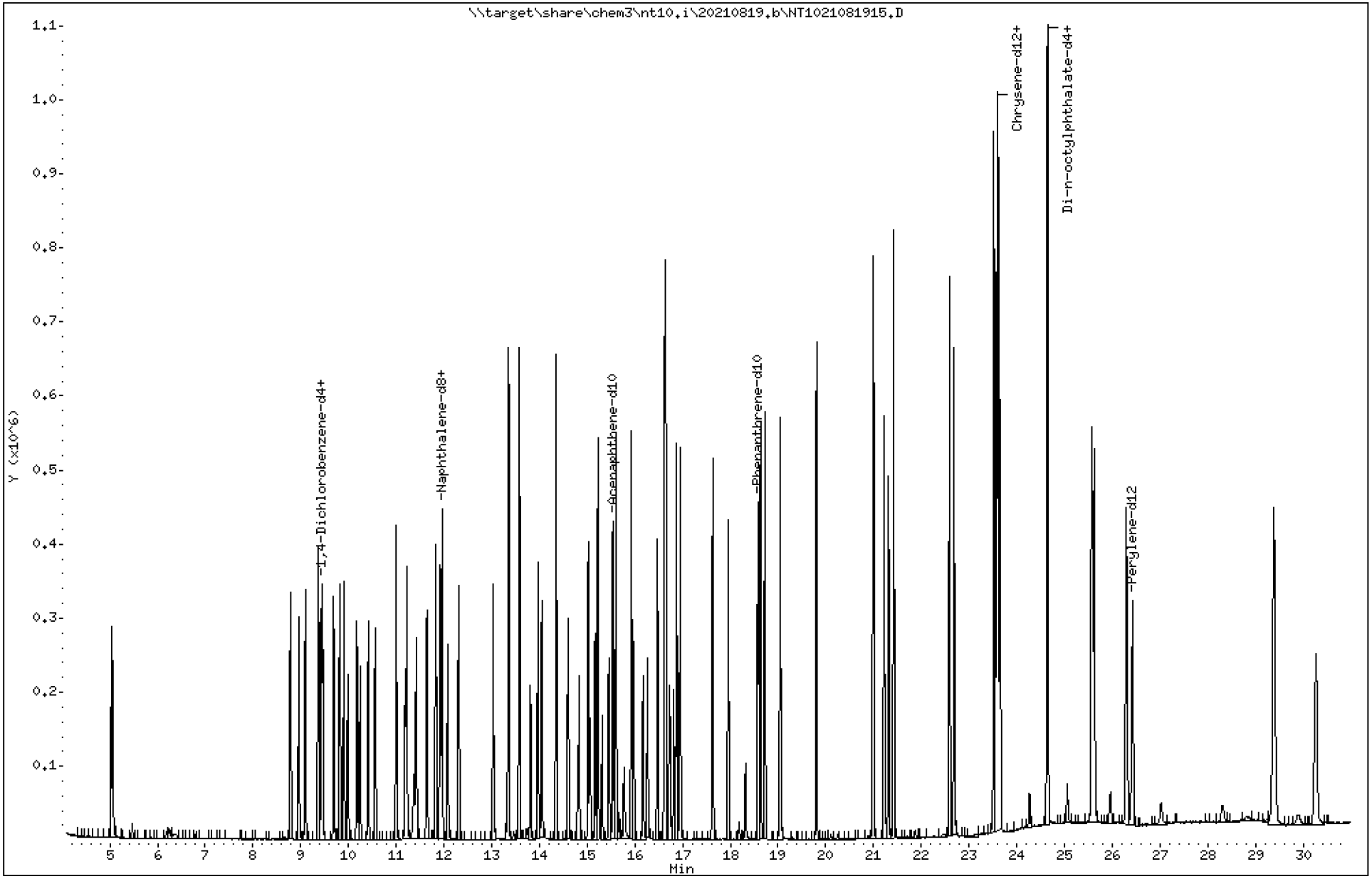
Instrument: nt10.i

Sample Info: SJH0235-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

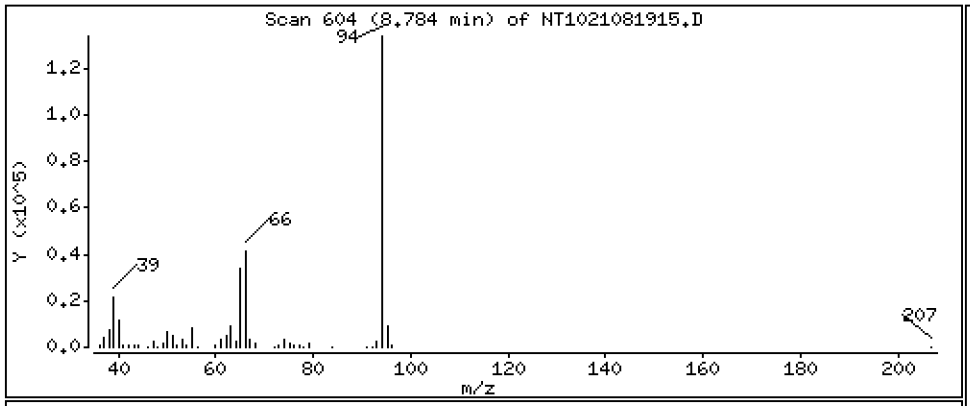
Operator: VTS

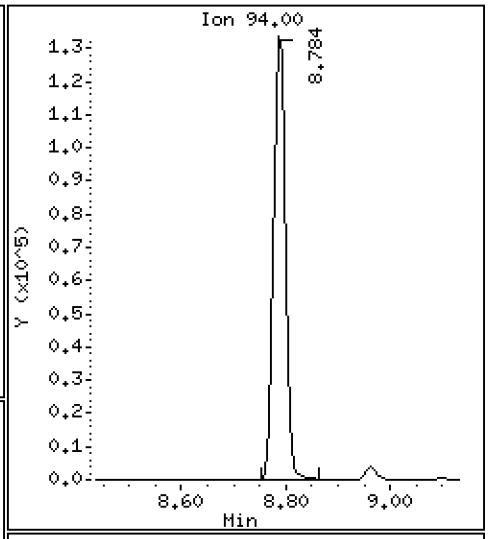
Column phase: ZB-5msi

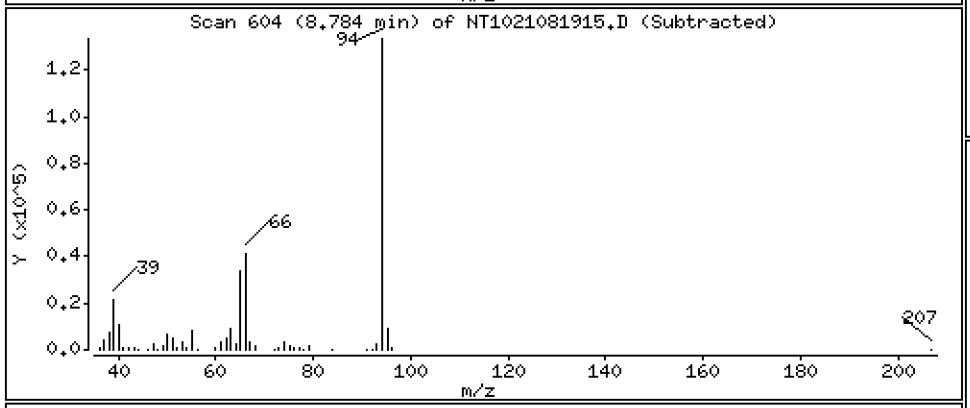
Column diameter: 0.25

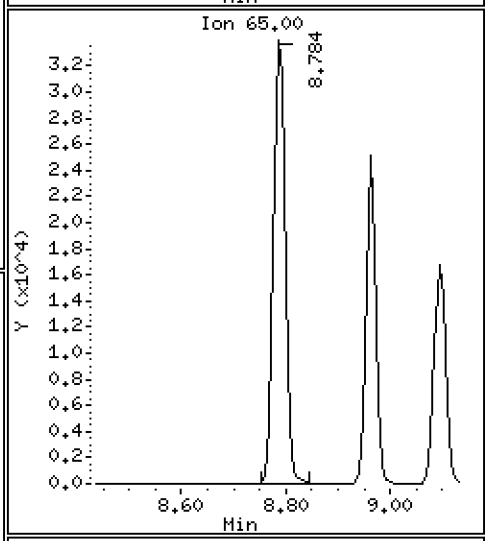
3 Phenol

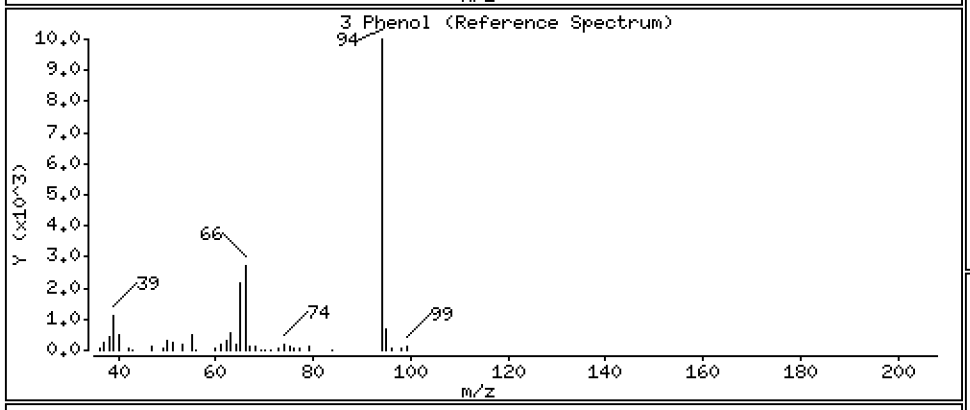
Concentration: 5.259 ug/mL

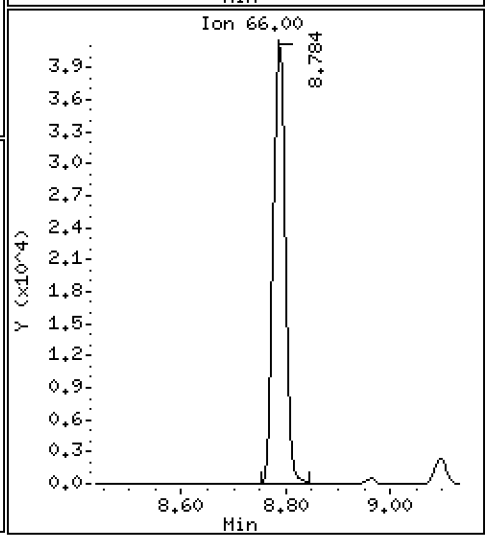


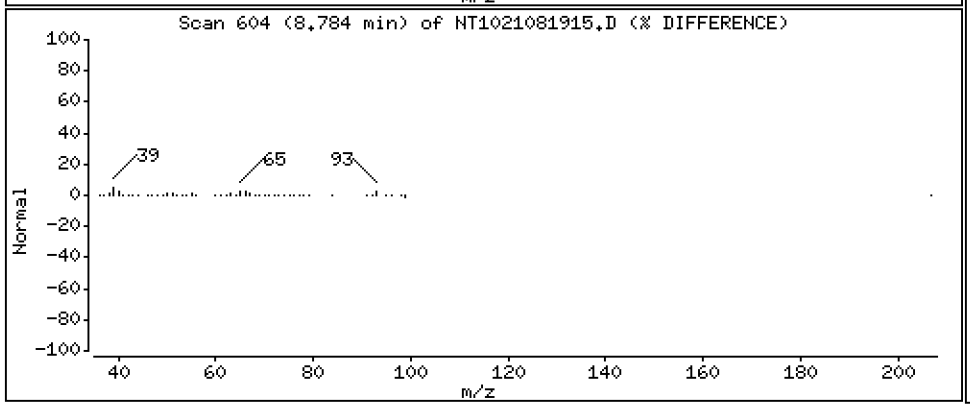












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

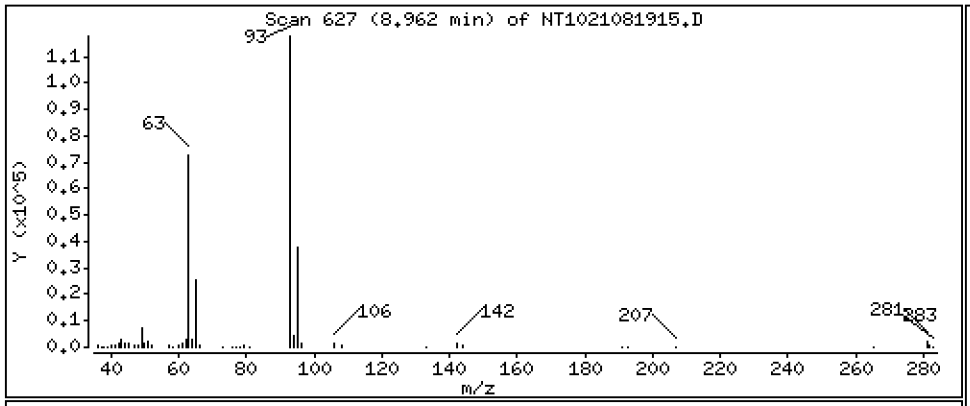
Operator: VTS

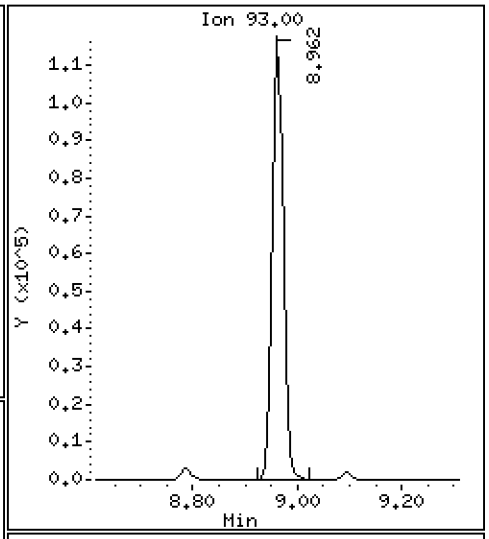
Column phase: ZB-5msi

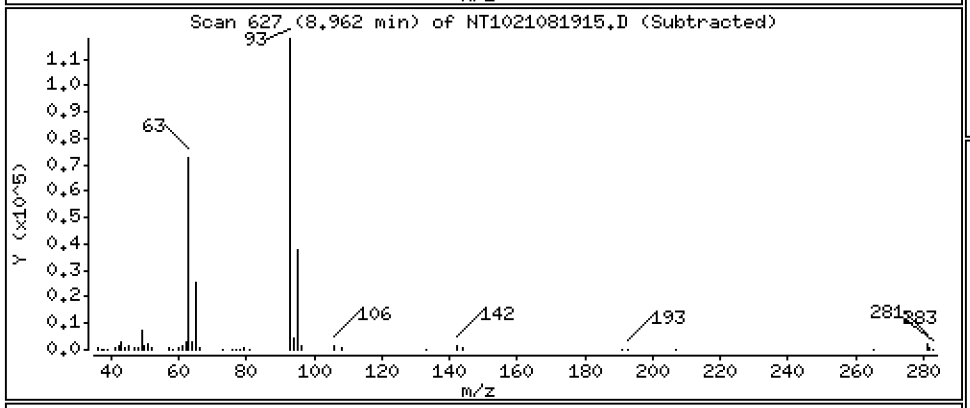
Column diameter: 0.25

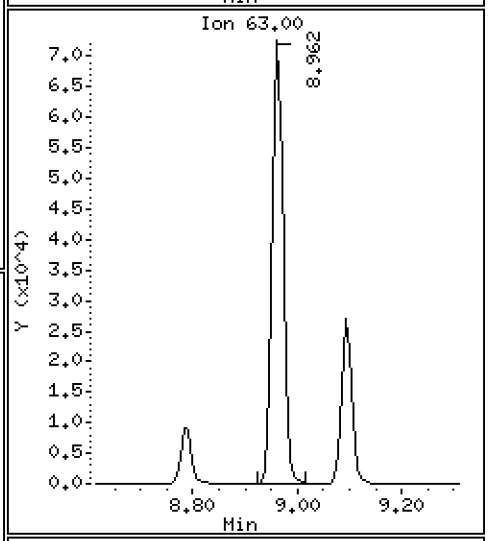
4 Bis(2-Chloroethyl)ether

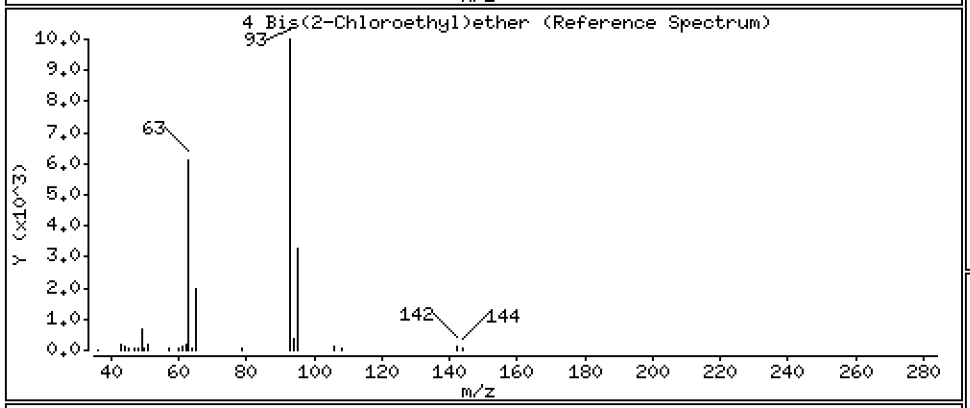
Concentration: 5.781 ug/mL

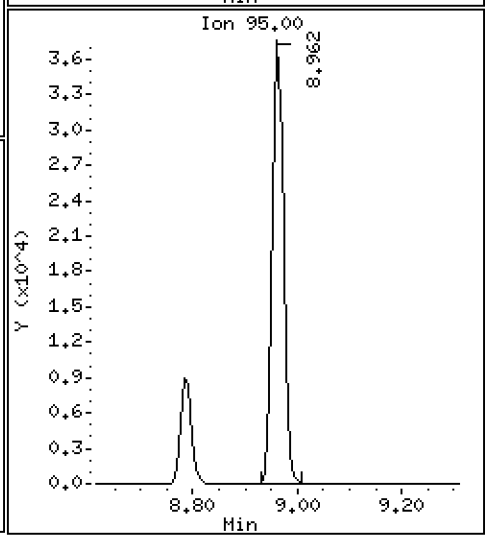


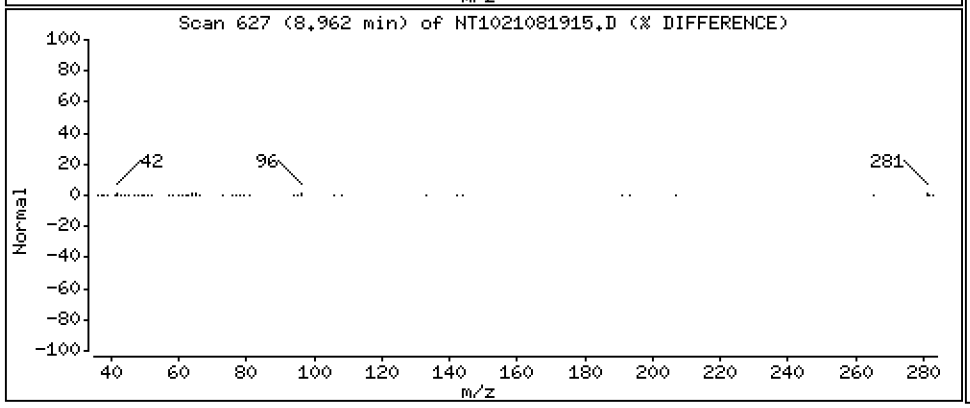












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

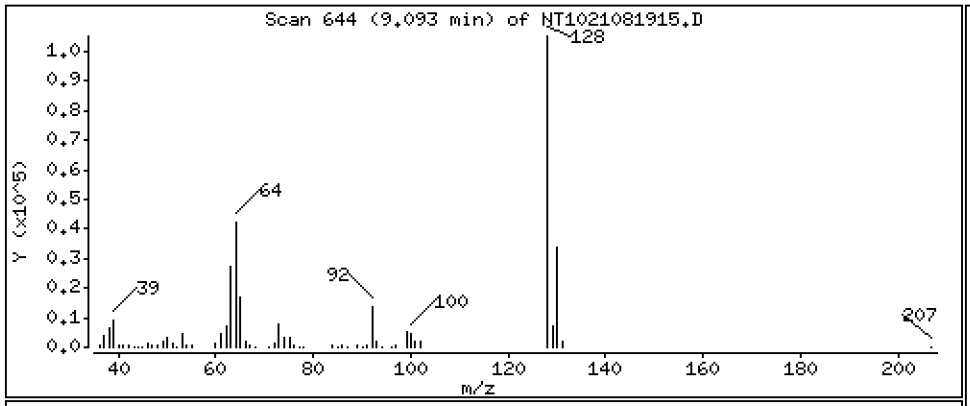
Operator: VTS

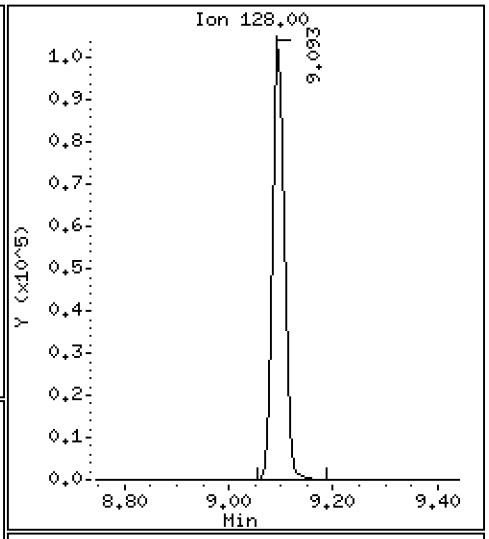
Column phase: ZB-5msi

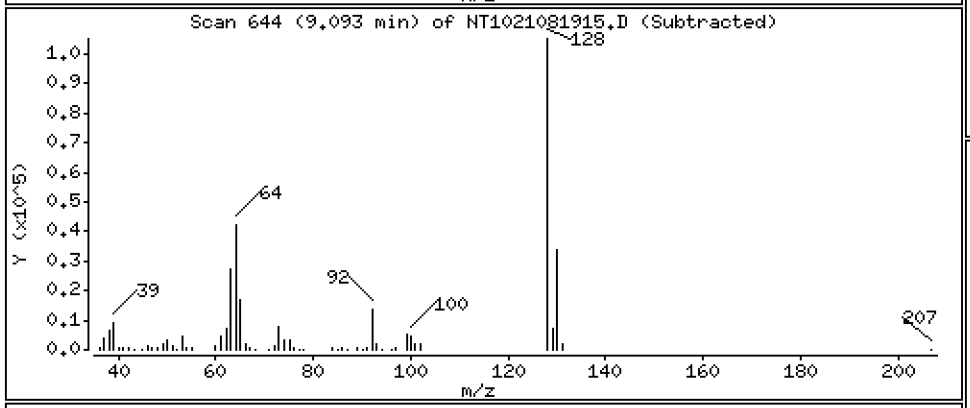
Column diameter: 0.25

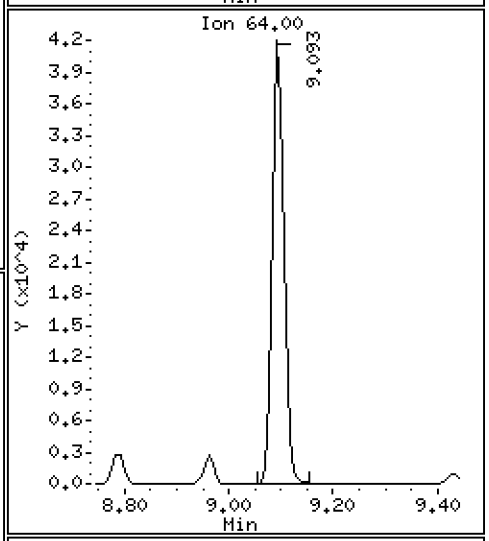
6 2-Chlorophenol

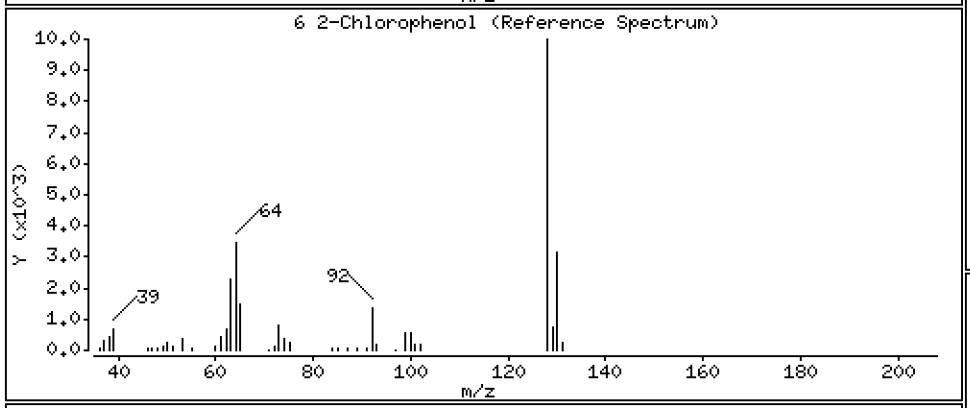
Concentration: 5.034 ug/mL

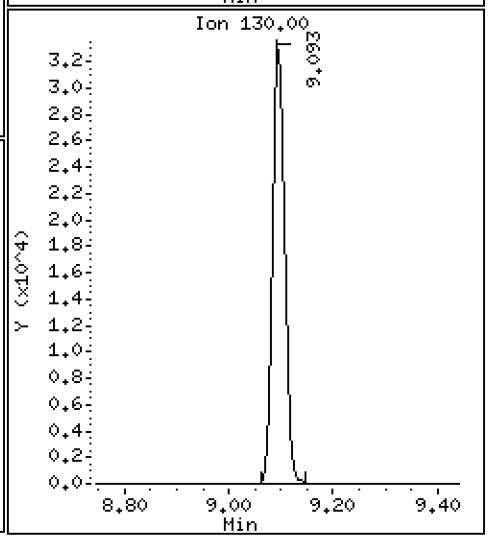


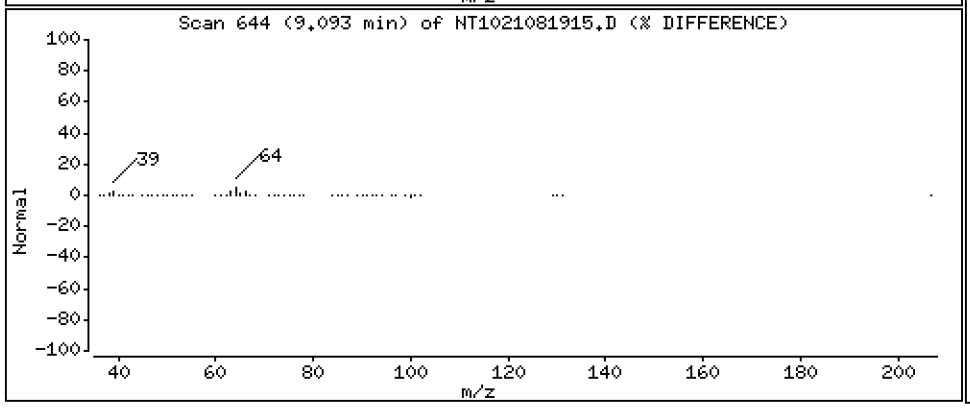












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

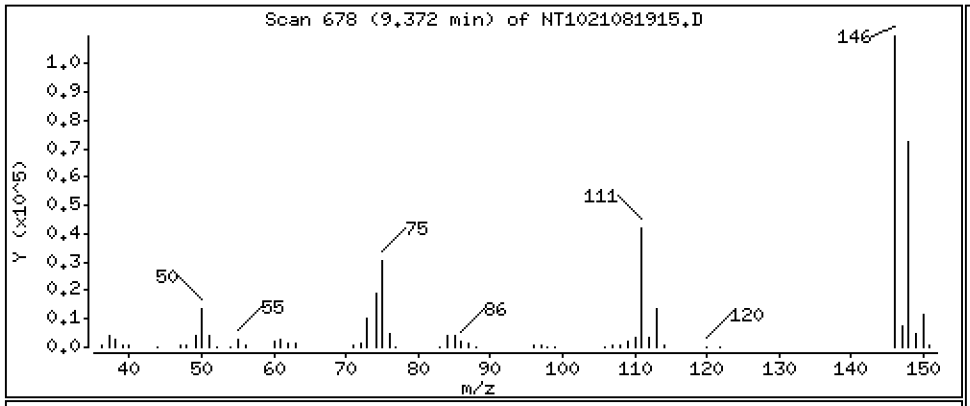
Operator: VTS

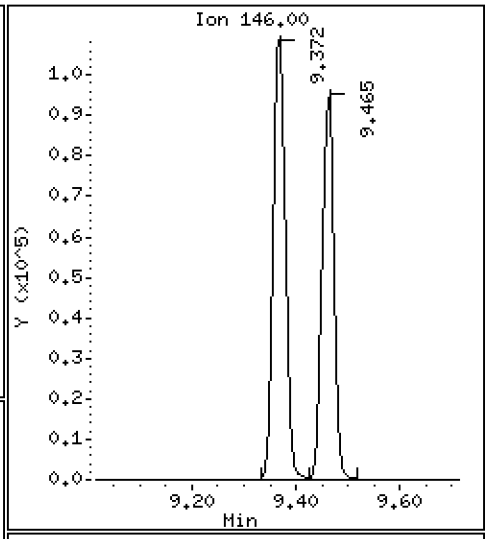
Column phase: ZB-5msi

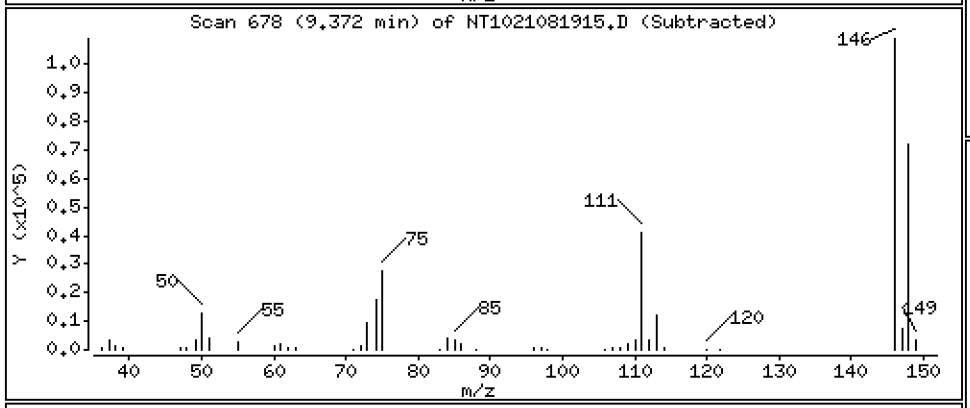
Column diameter: 0.25

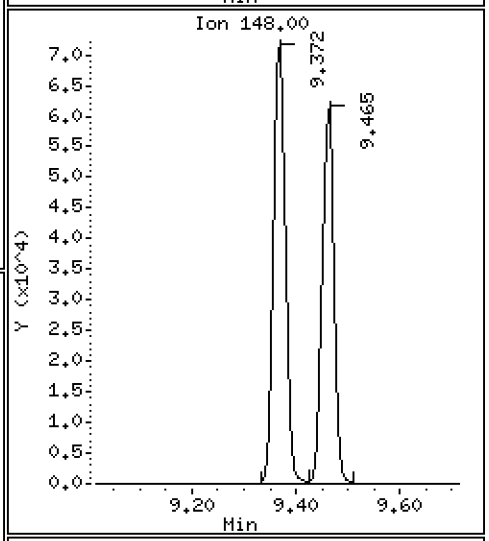
7 1,3-Dichlorobenzene

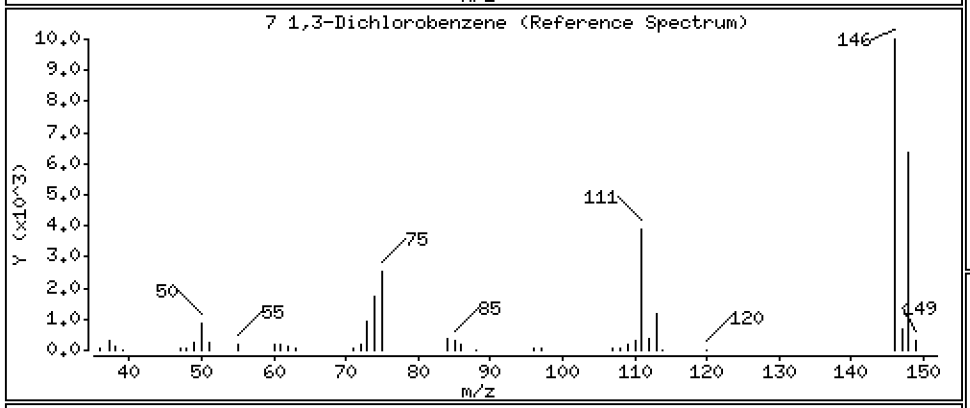
Concentration: 5.186 ug/mL

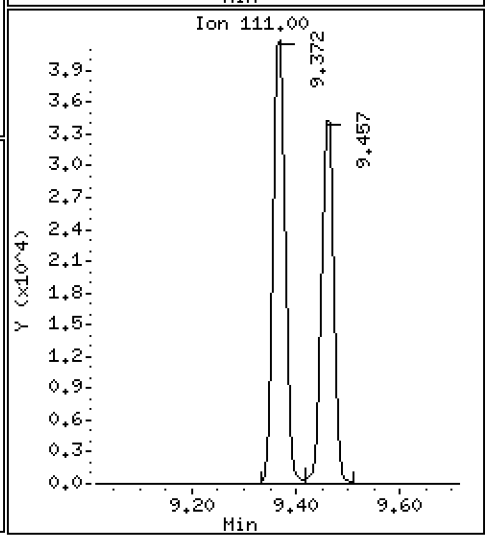


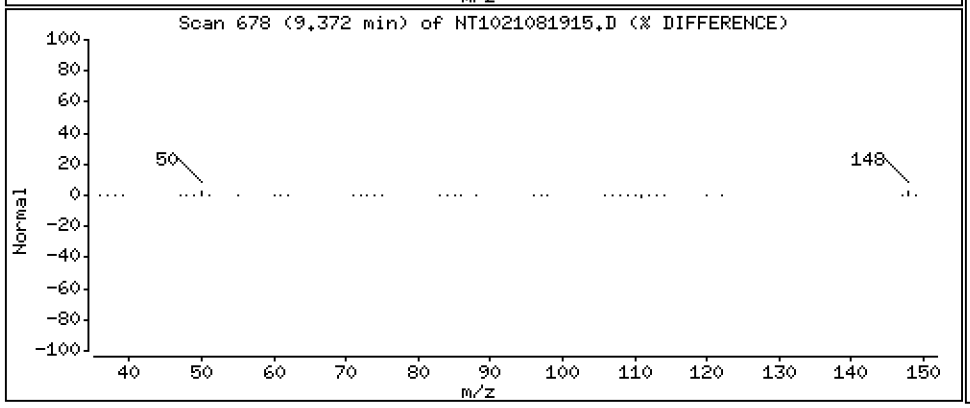












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

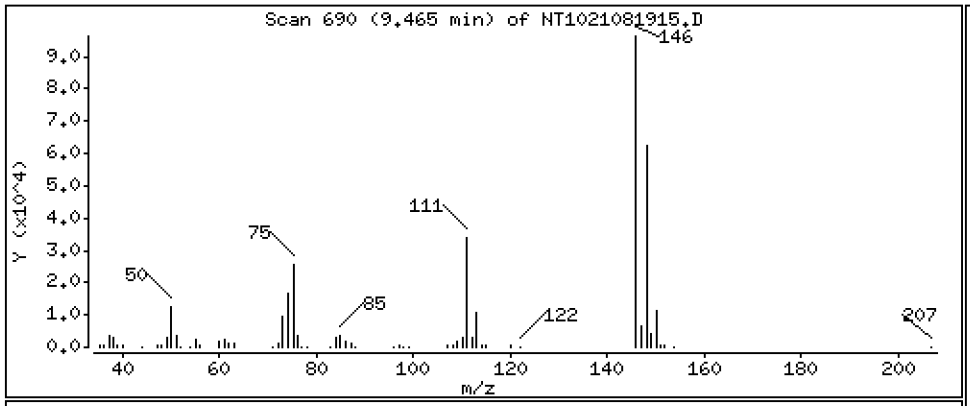
Operator: VTS

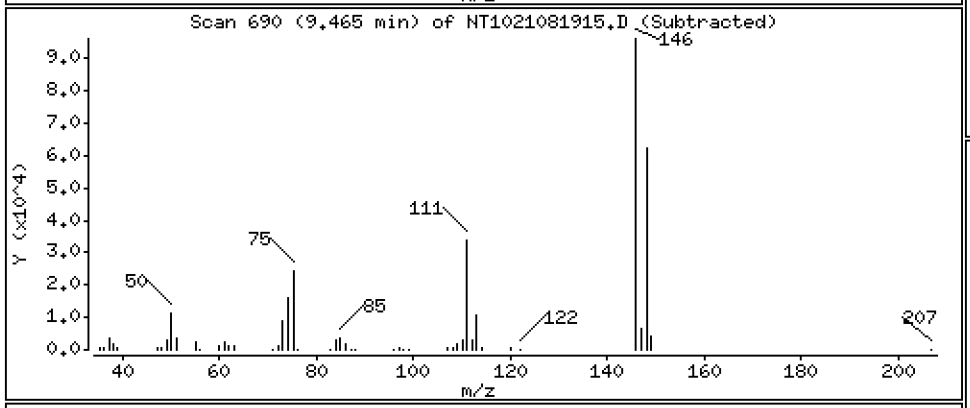
Column phase: ZB-5msi

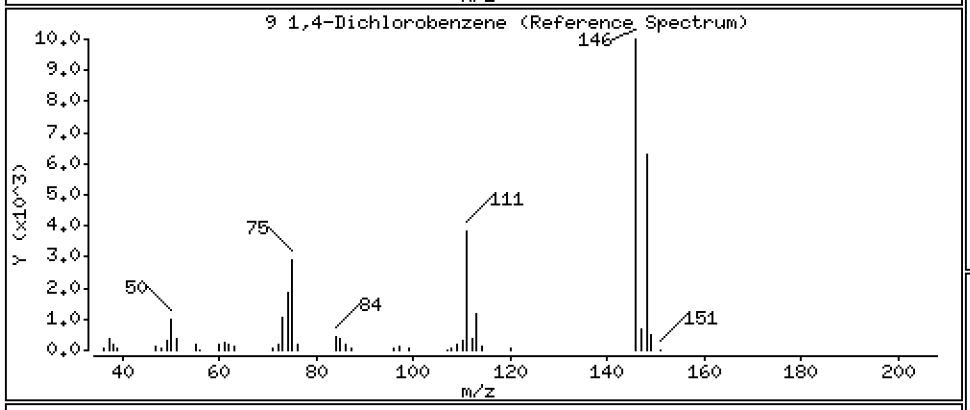
Column diameter: 0.25

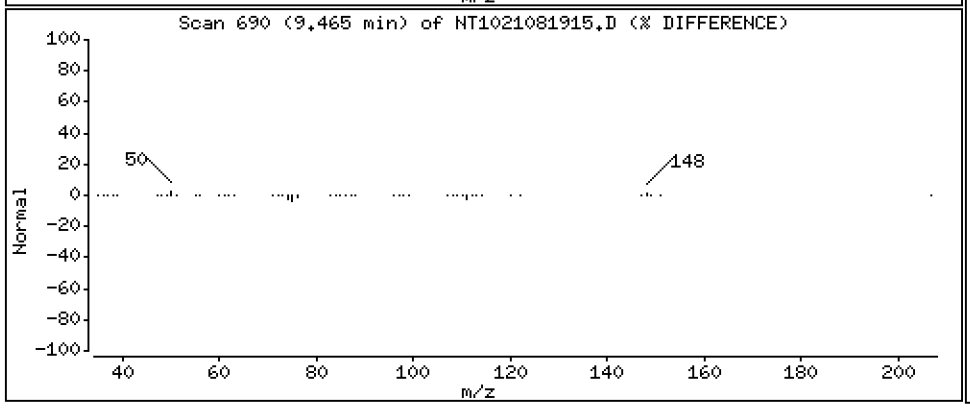
9 1,4-Dichlorobenzene

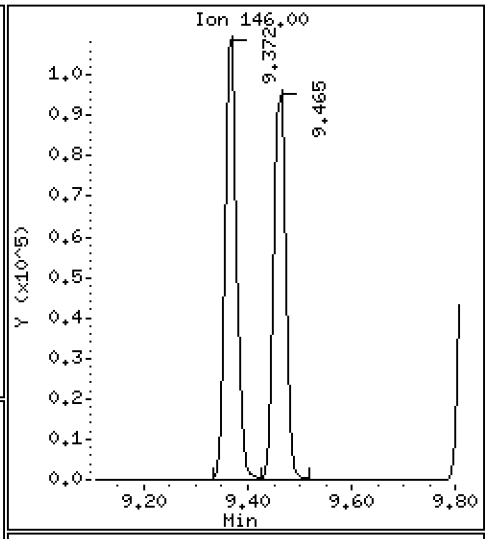
Concentration: 5.858 ug/mL

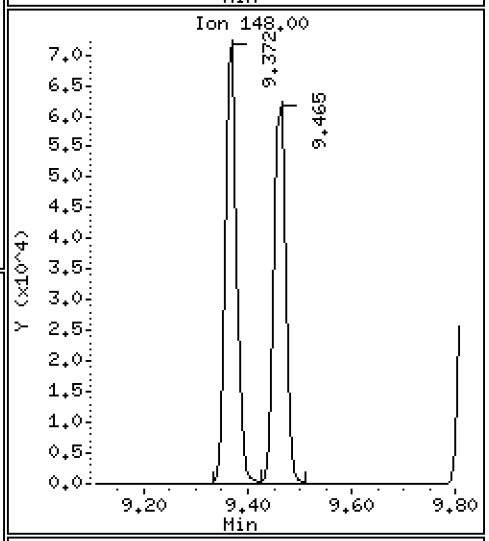


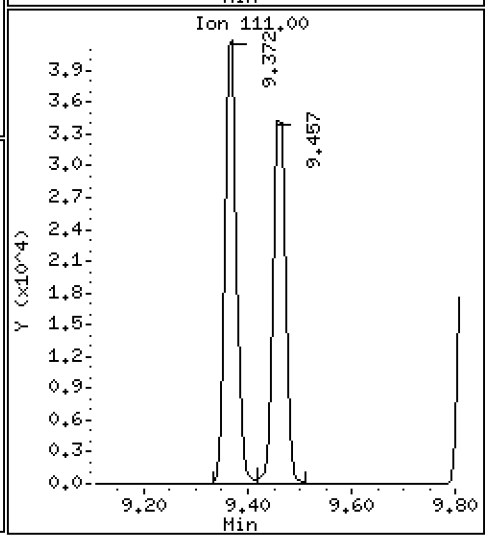












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

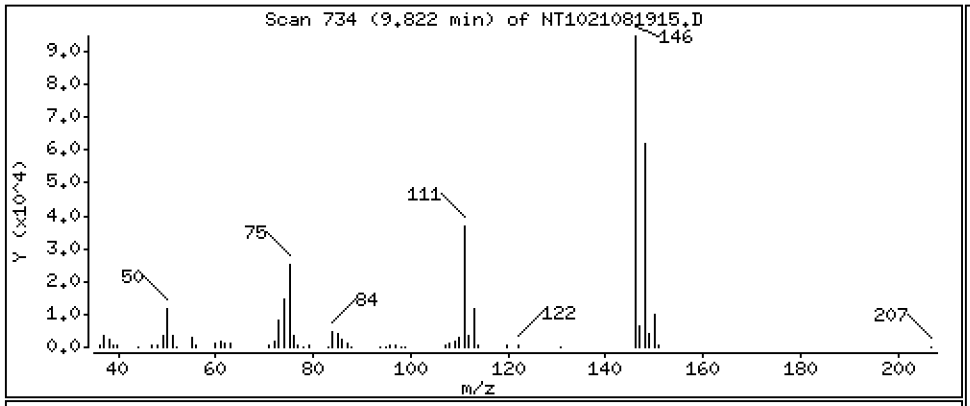
Operator: VTS

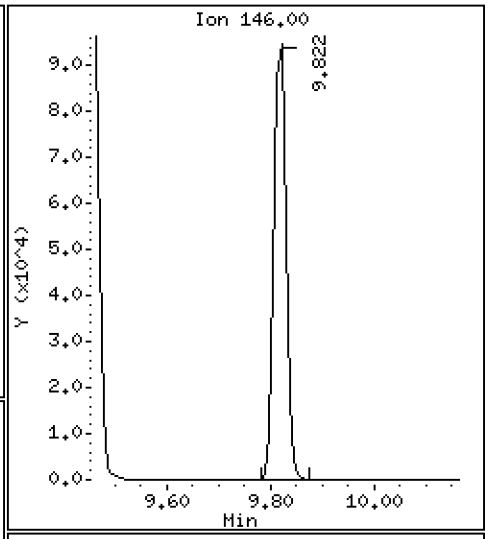
Column phase: ZB-5msi

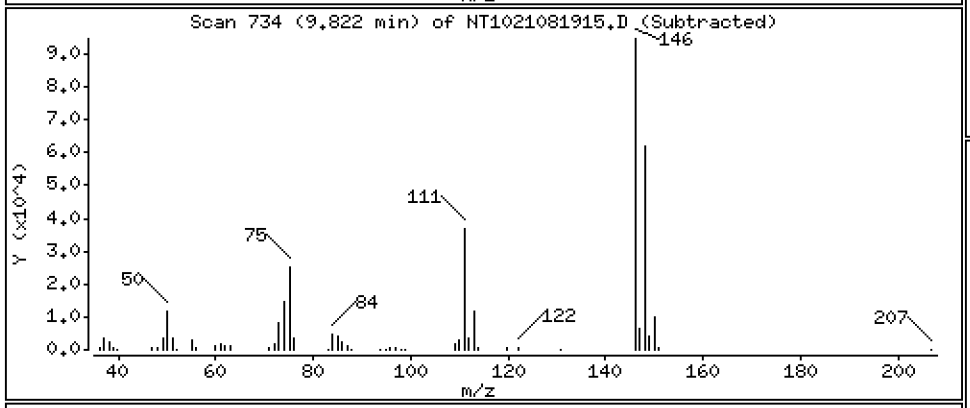
Column diameter: 0.25

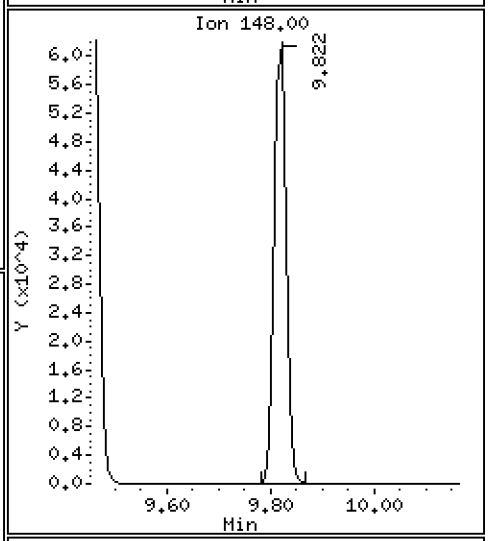
12 1,2-Dichlorobenzene

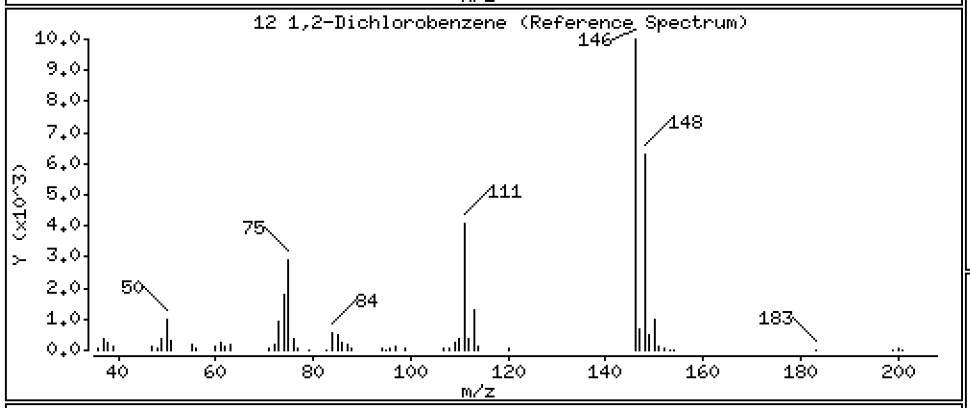
Concentration: 5.200 ug/mL

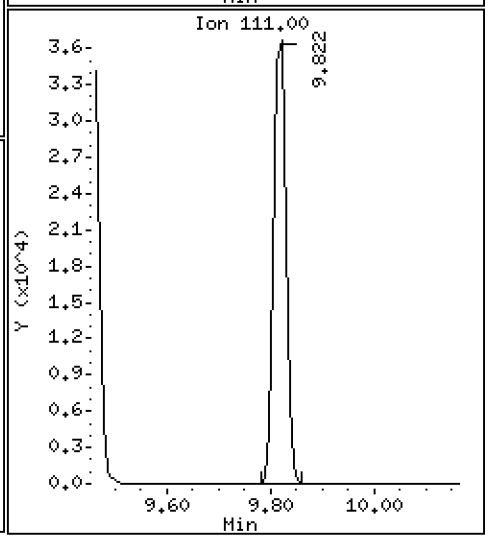


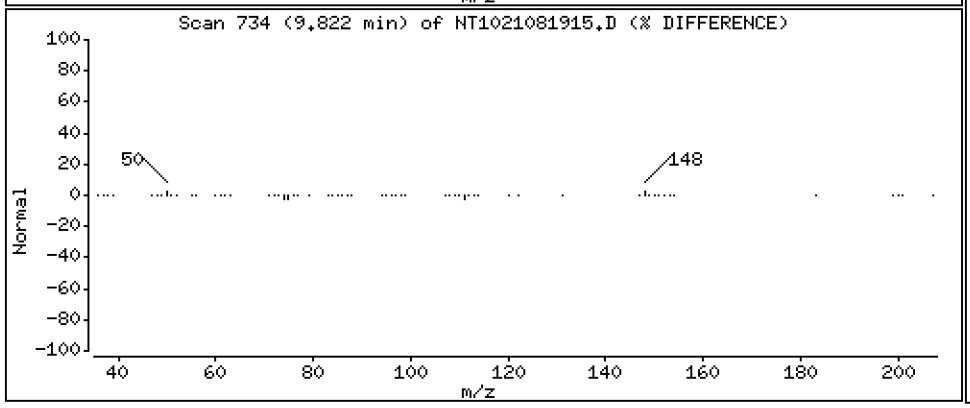












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

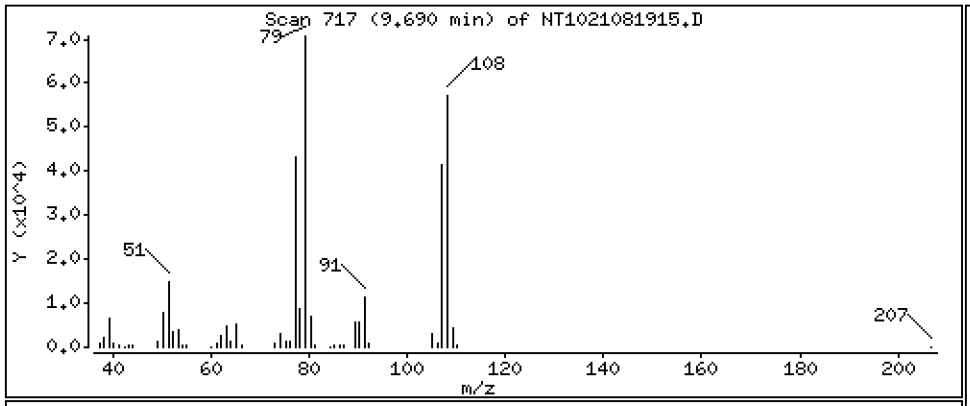
Operator: VTS

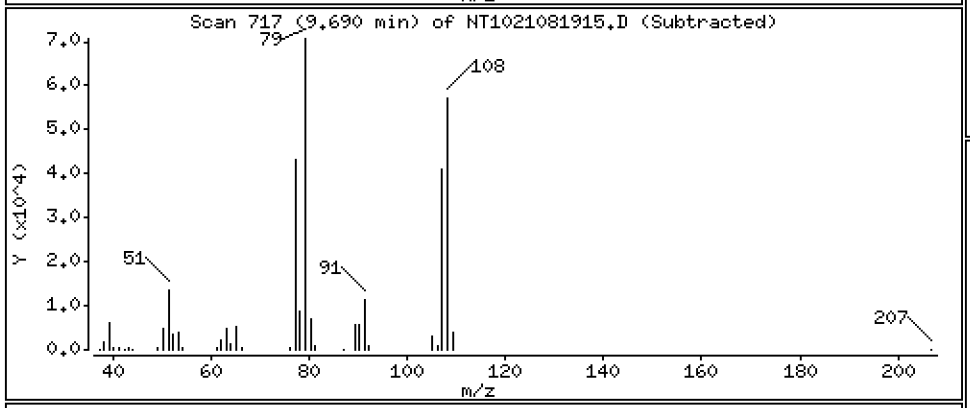
Column phase: ZB-5msi

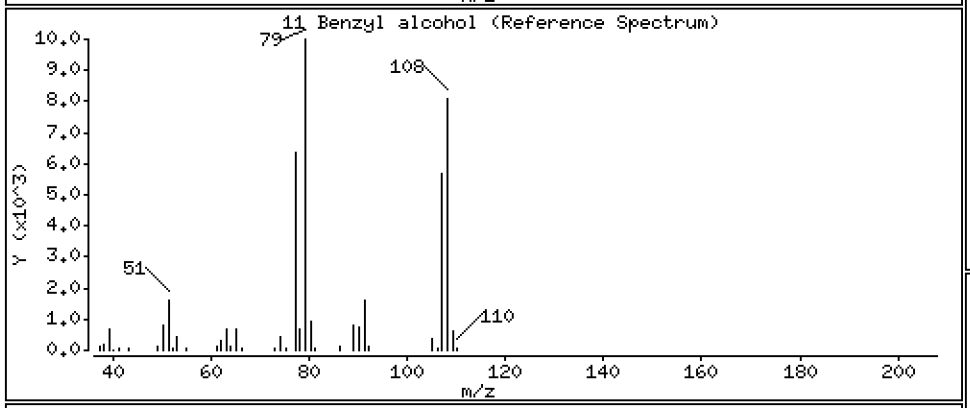
Column diameter: 0.25

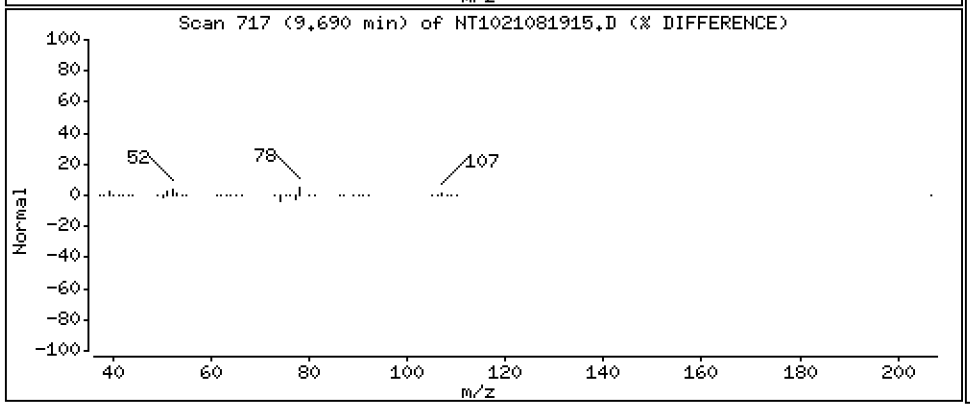
11 Benzyl alcohol

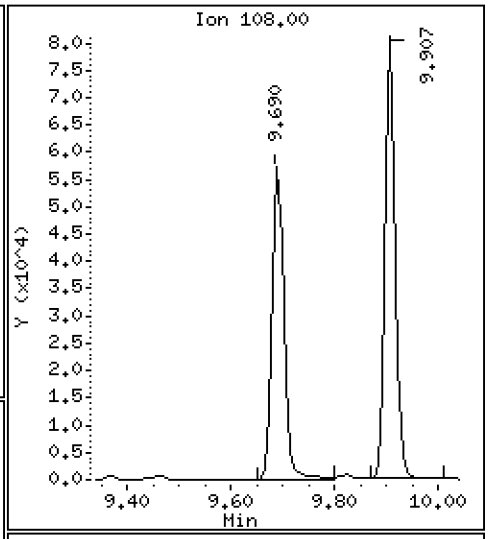
Concentration: 4.934 ug/mL

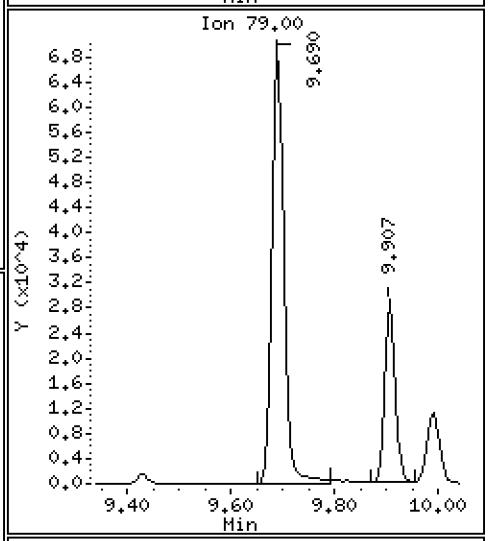


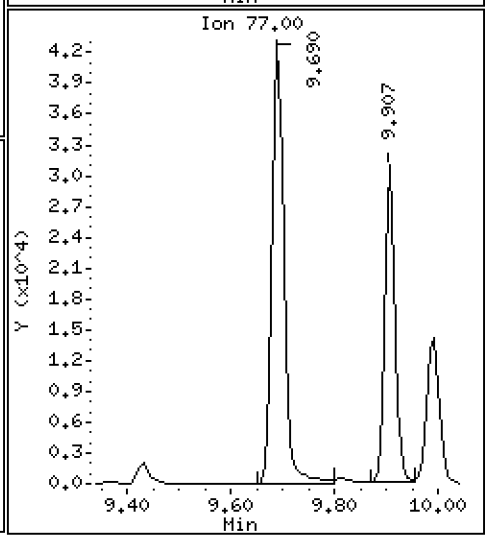












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

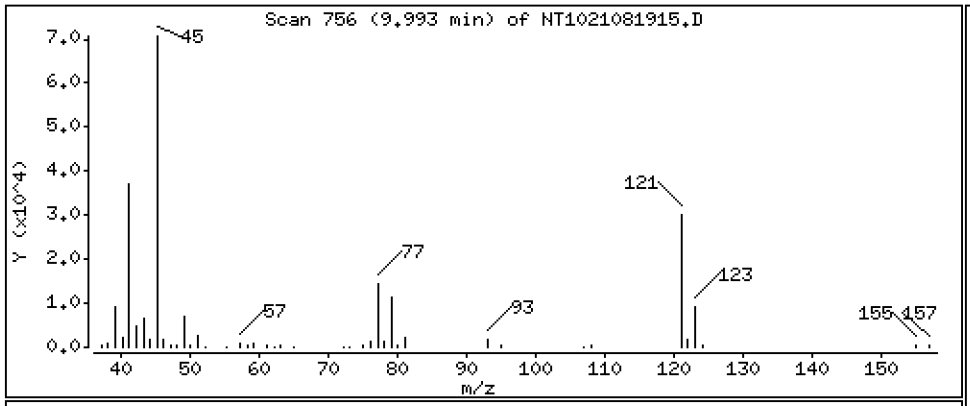
Operator: VTS

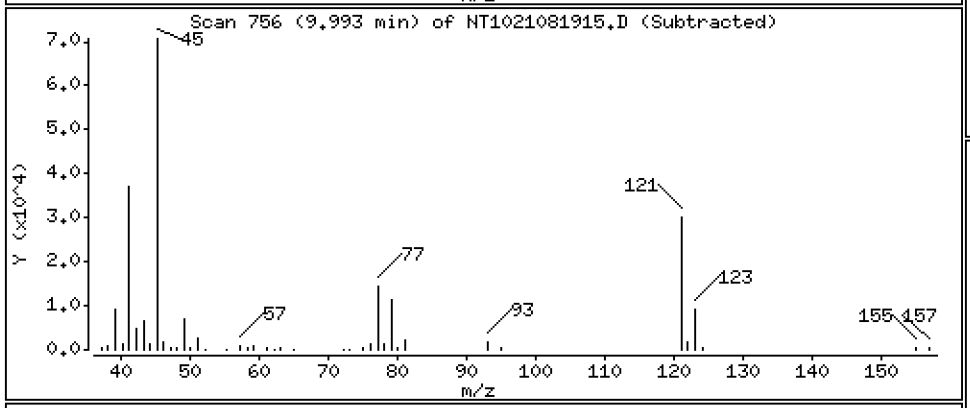
Column phase: ZB-5msi

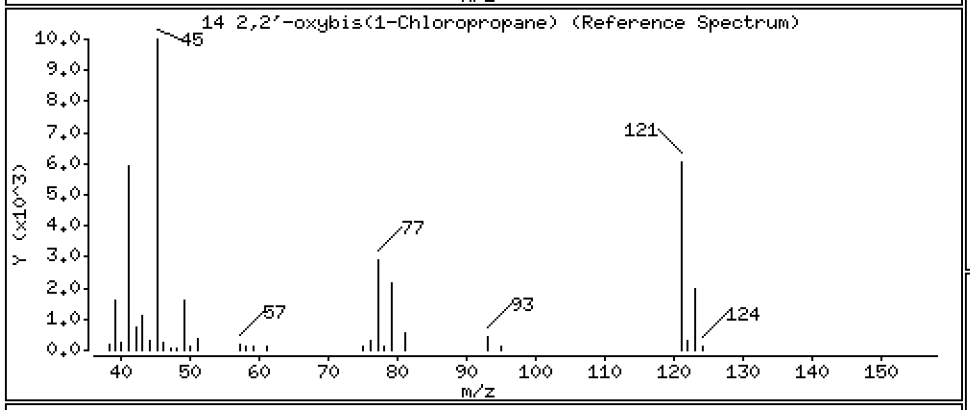
Column diameter: 0.25

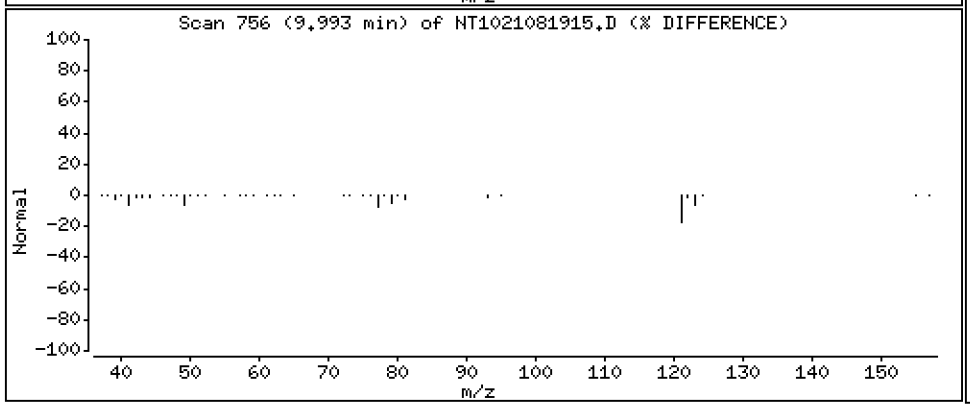
14 2,2'-oxybis(1-Chloropropane)

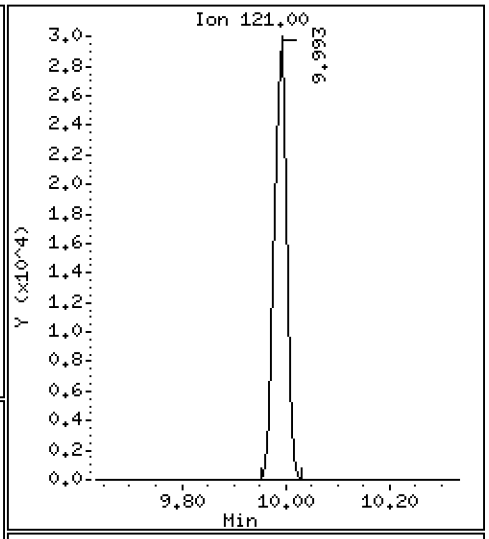
Concentration: 5.720 ug/mL

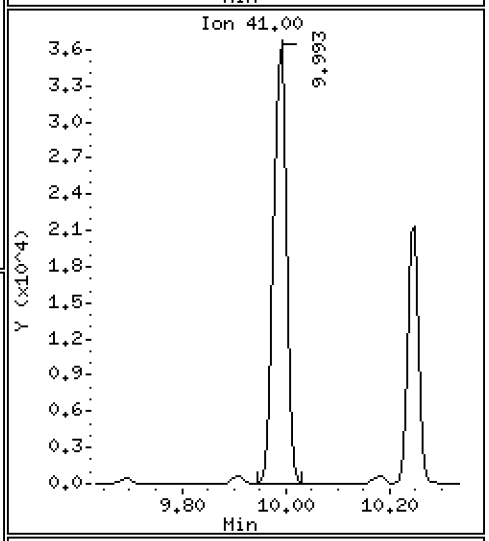


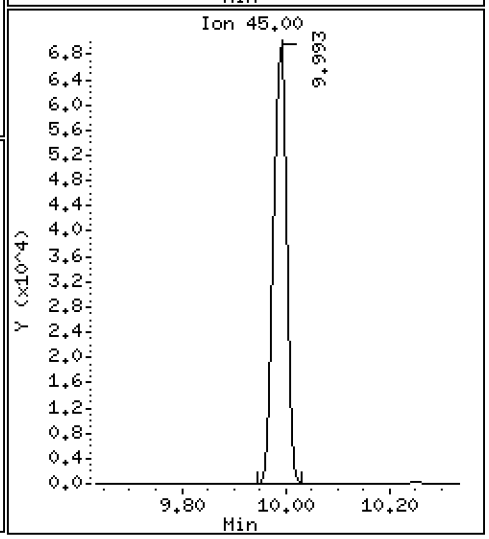












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

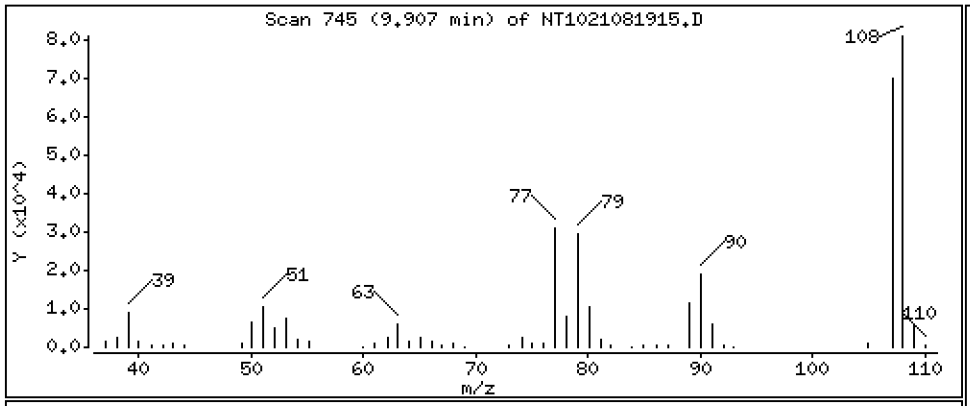
Operator: VTS

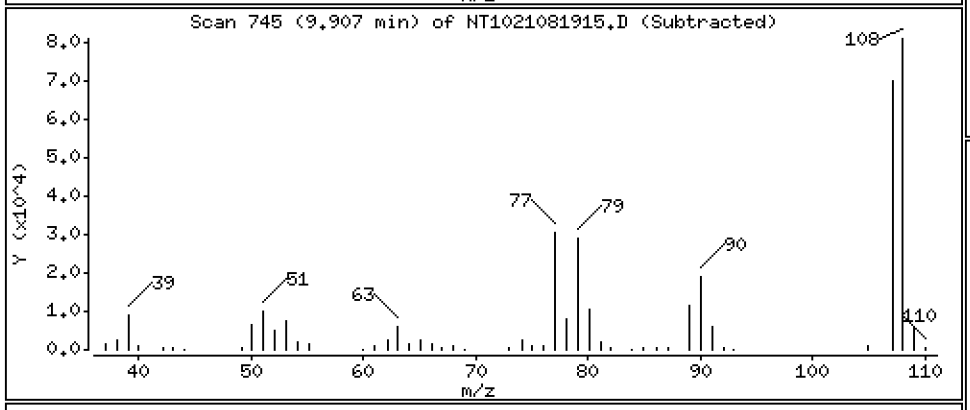
Column phase: ZB-5msi

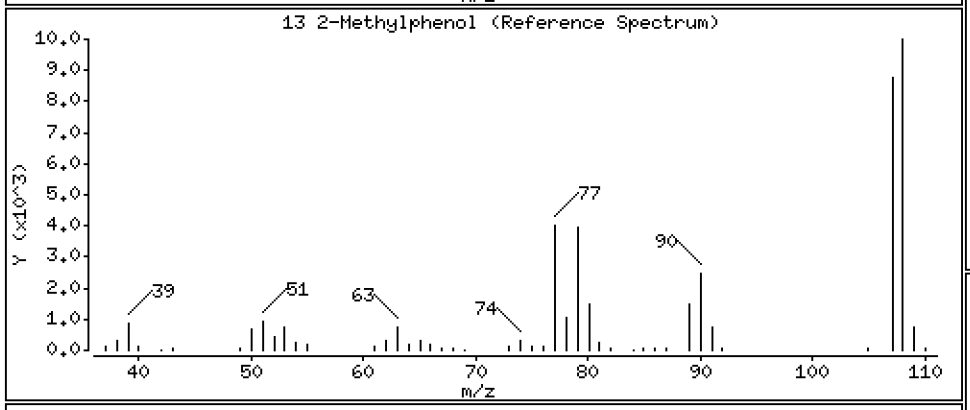
Column diameter: 0.25

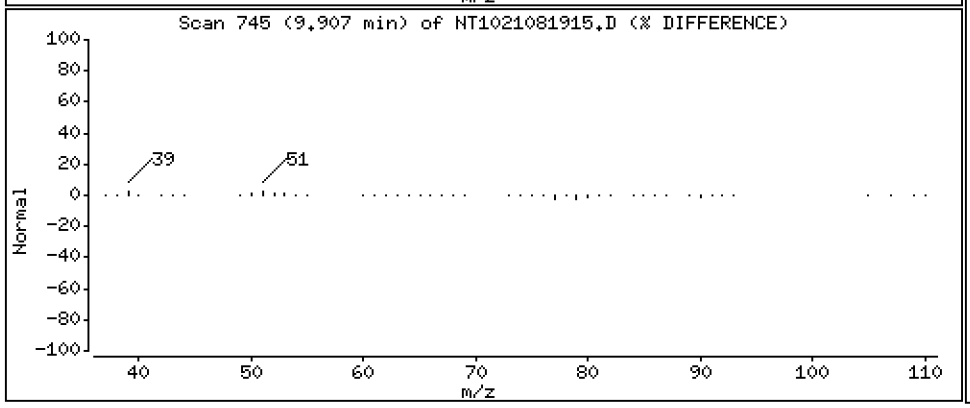
13 2-Methylphenol

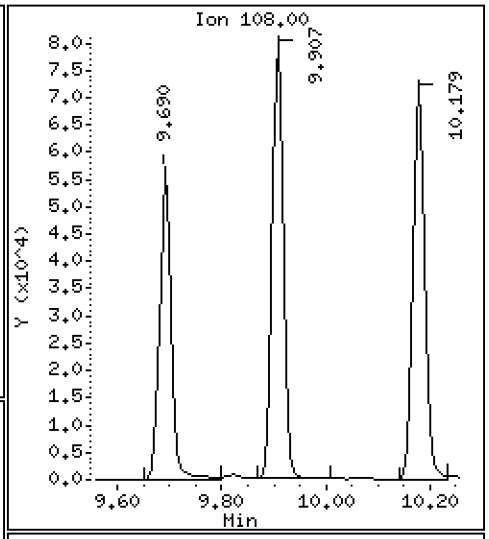
Concentration: 4.657 ug/mL

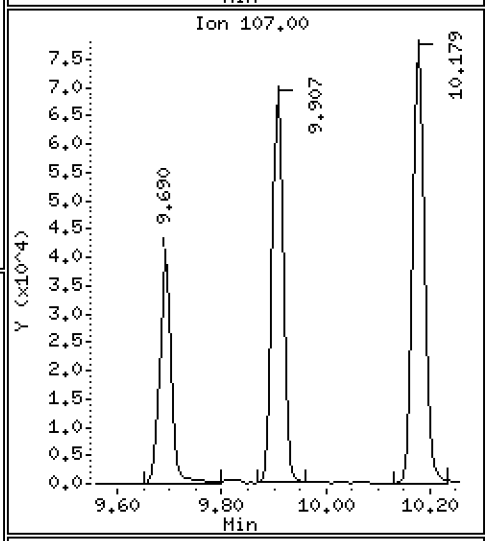


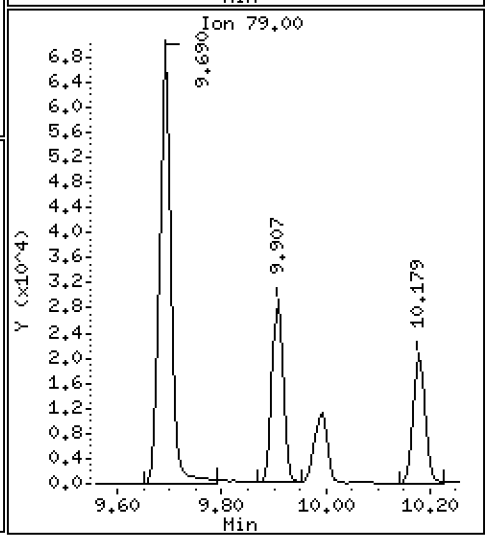












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

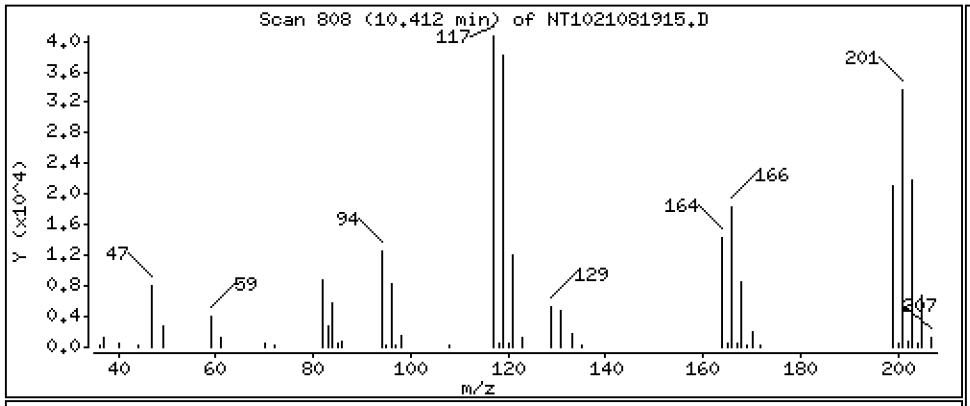
Operator: VTS

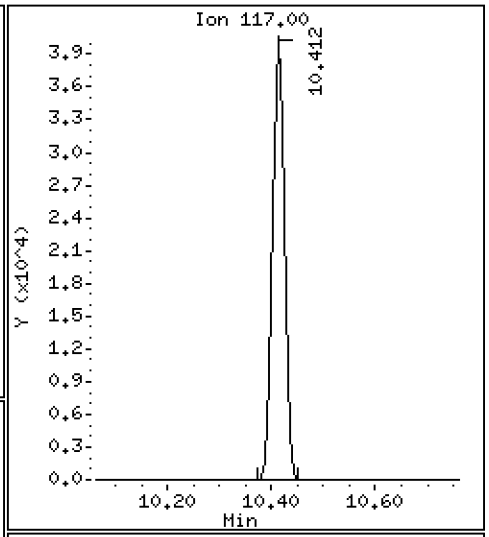
Column phase: ZB-5msi

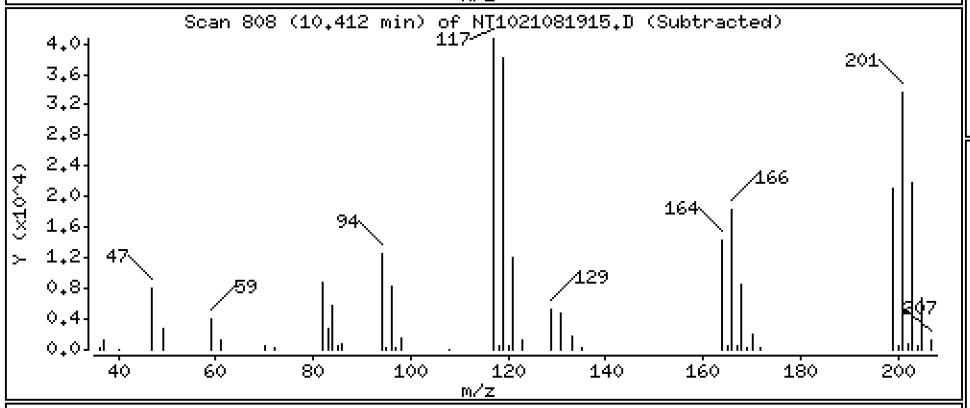
Column diameter: 0.25

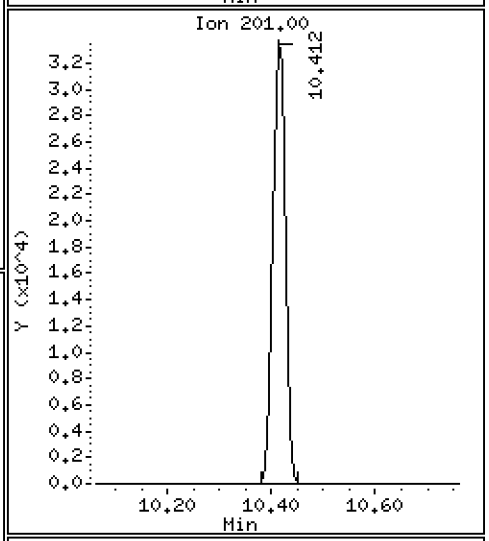
17 Hexachloroethane

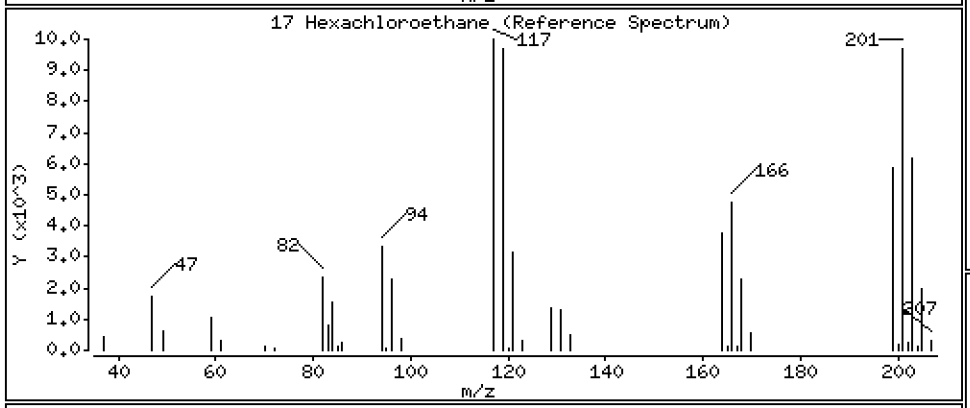
Concentration: 5.674 ug/mL

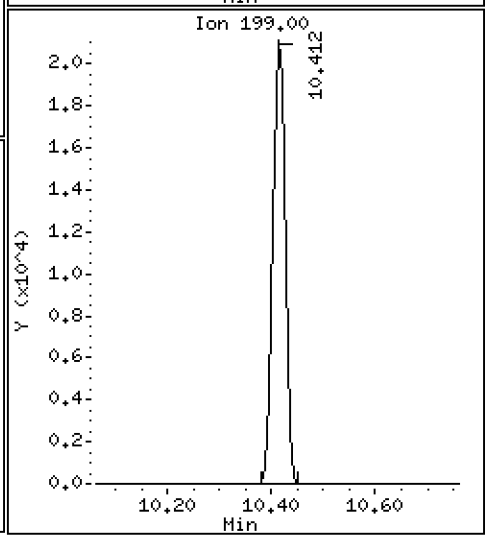


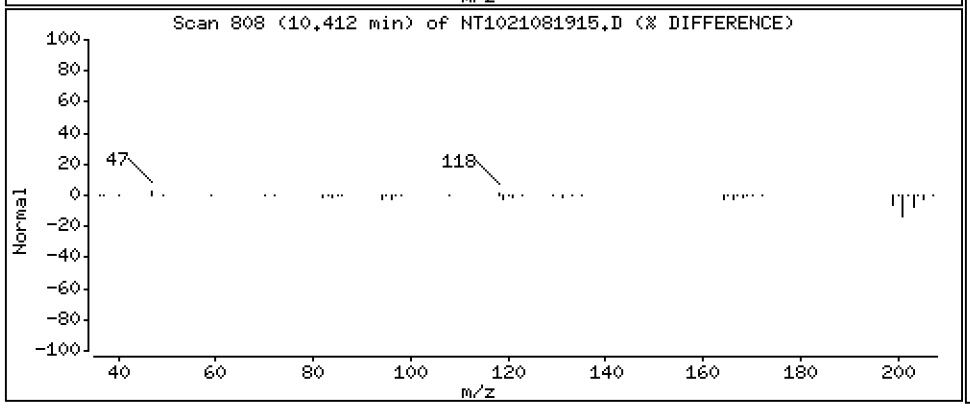












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

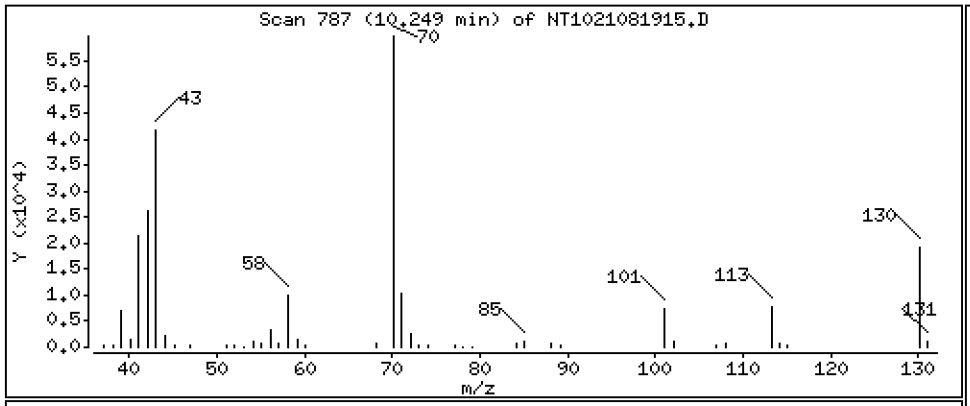
Operator: VTS

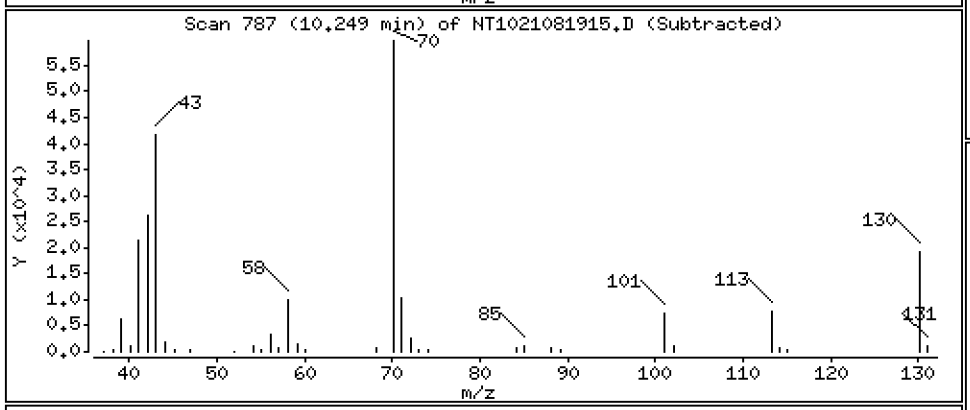
Column phase: ZB-5msi

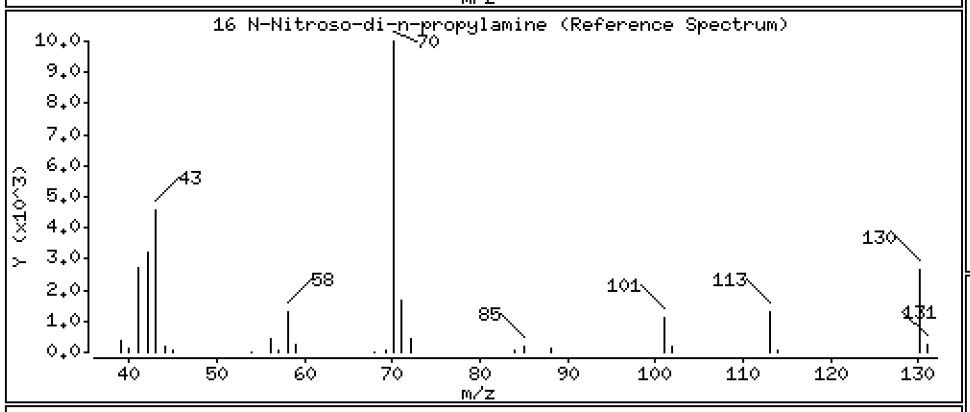
Column diameter: 0.25

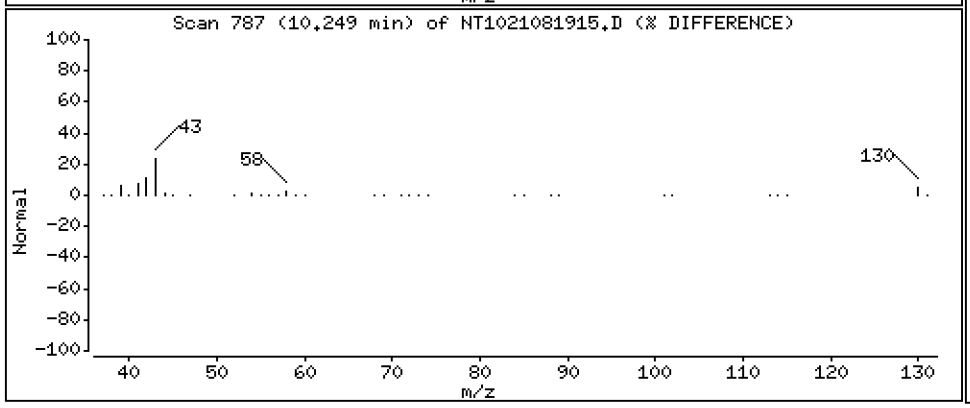
16 N-Nitroso-di-n-propylamine

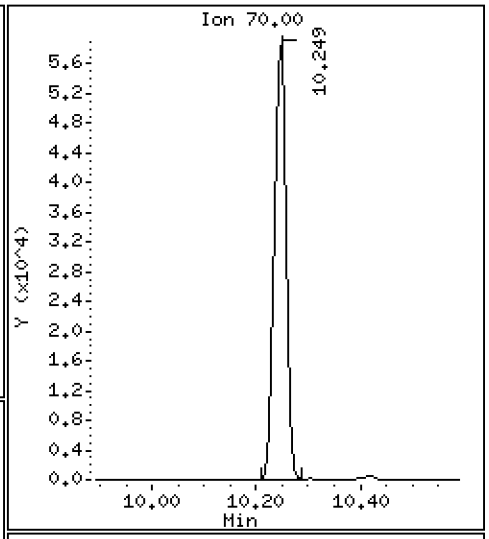
Concentration: 5.292 ug/mL

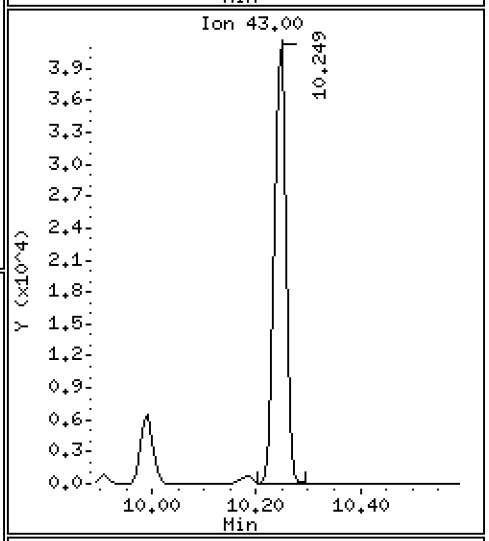


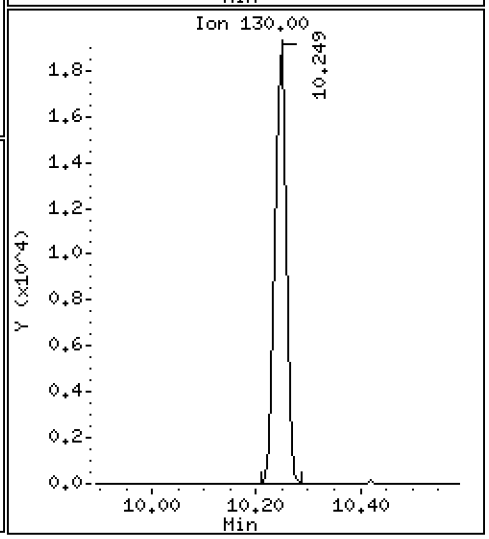












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

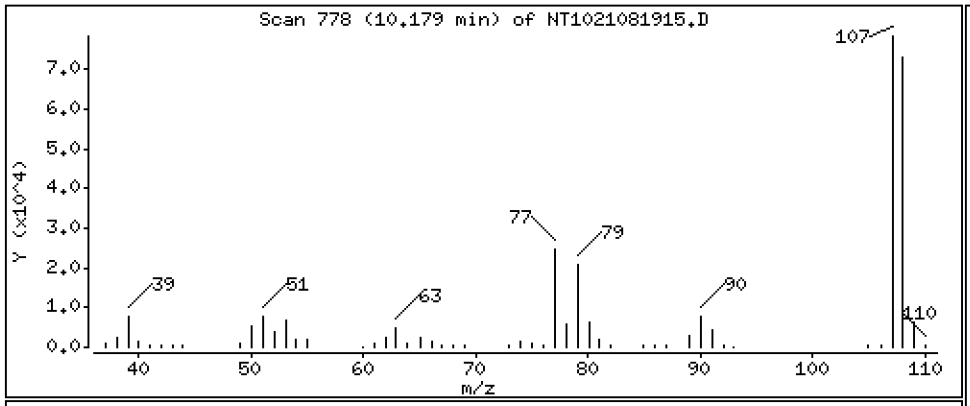
Operator: VTS

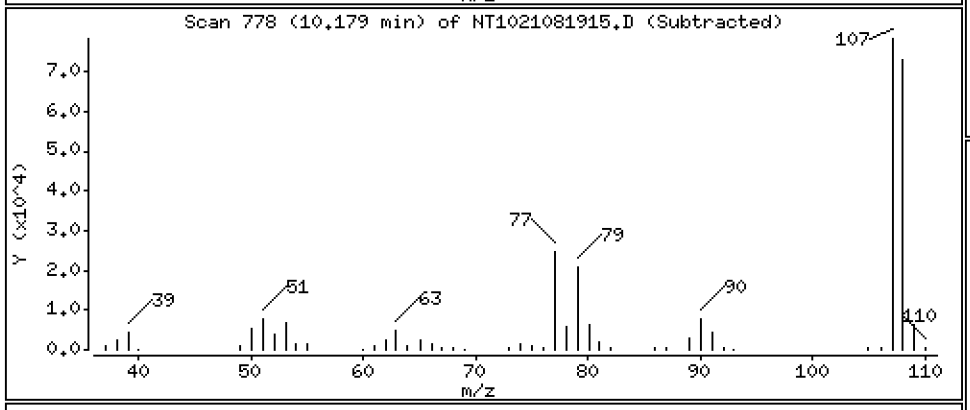
Column phase: ZB-5msi

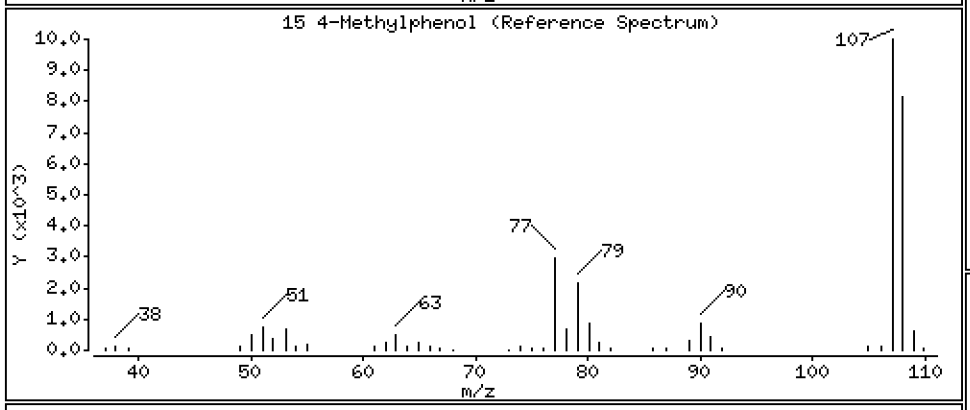
Column diameter: 0.25

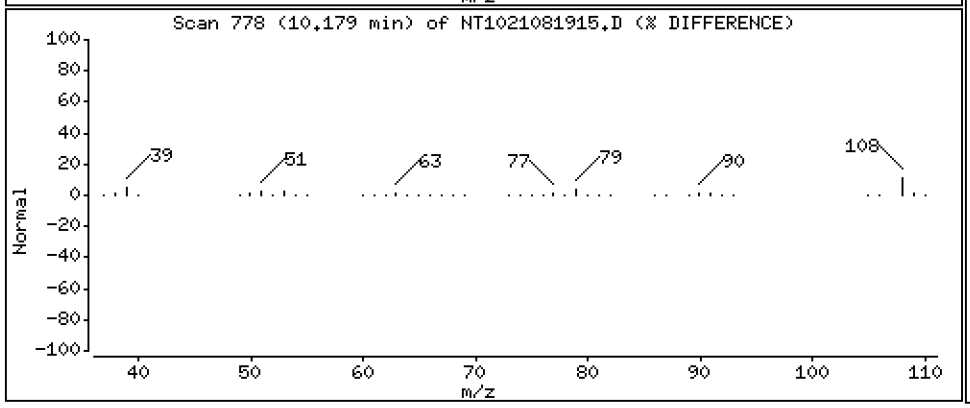
15 4-Methylphenol

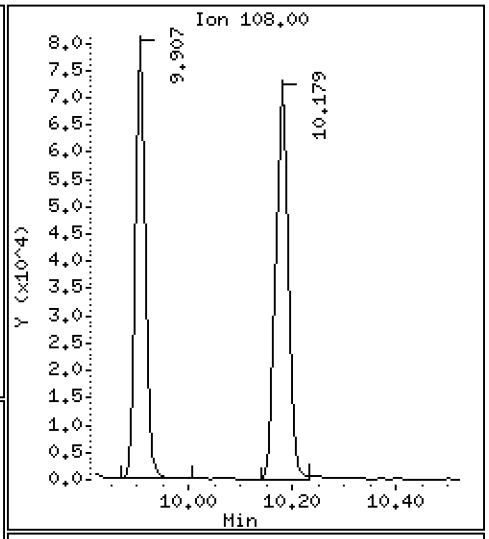
Concentration: 4.688 ug/mL

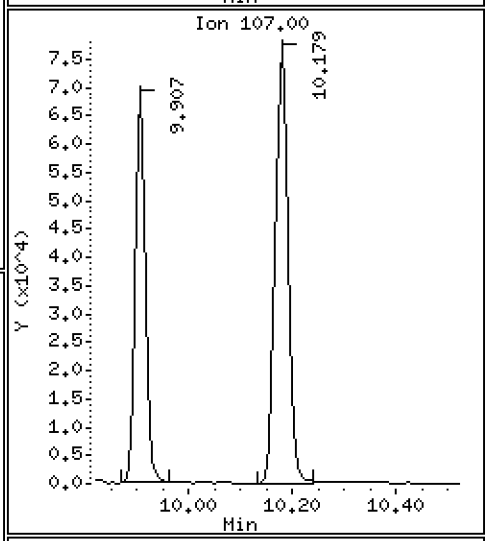


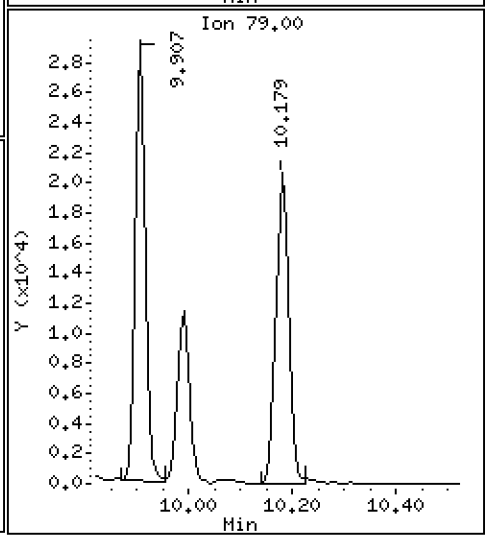












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

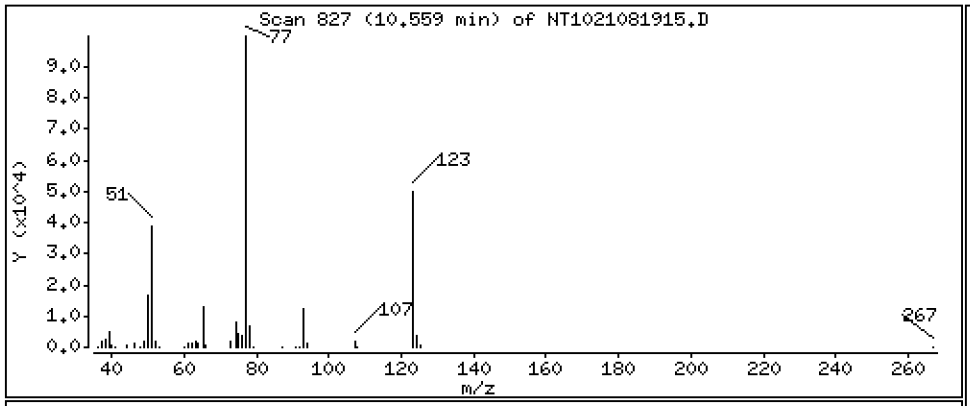
Operator: VTS

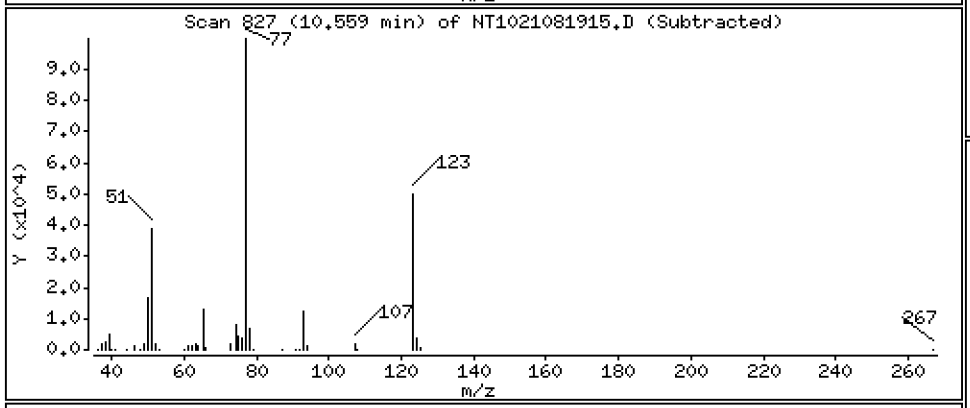
Column phase: ZB-5msi

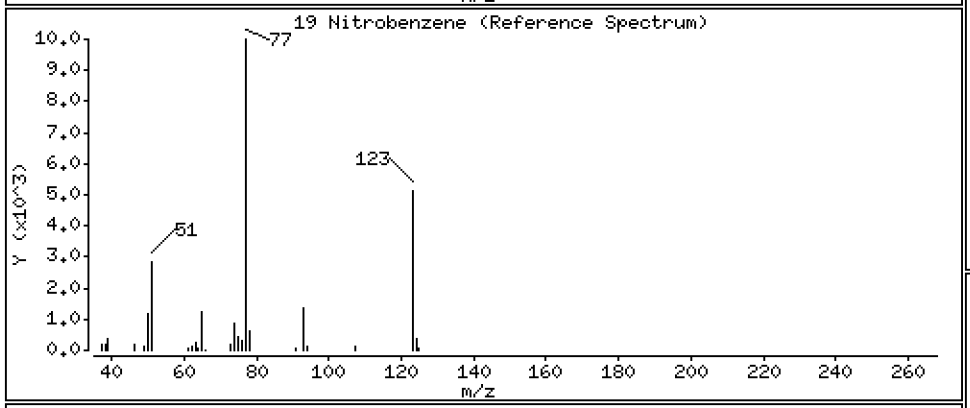
Column diameter: 0.25

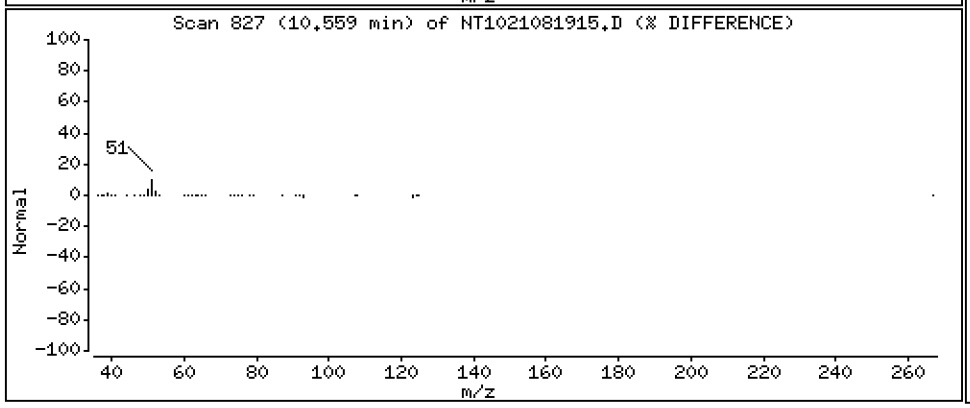
19 Nitrobenzene

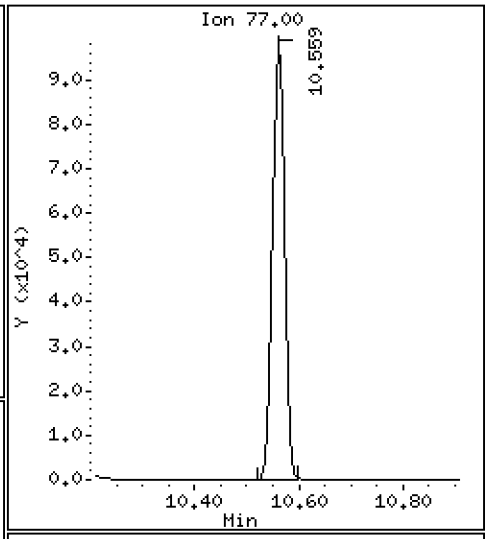
Concentration: 5.403 ug/mL

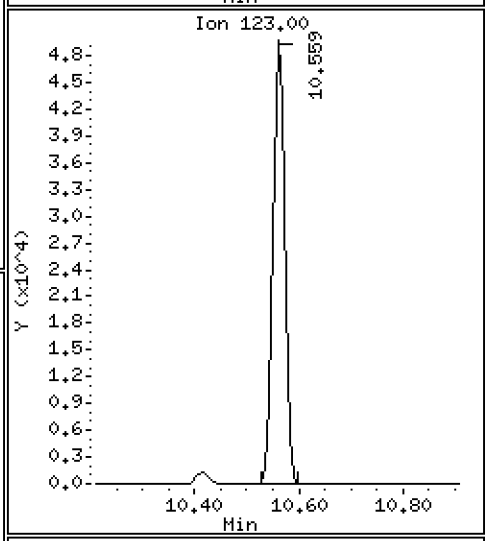


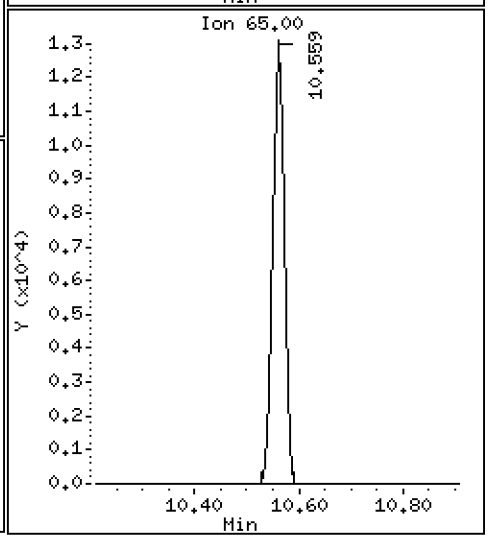












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

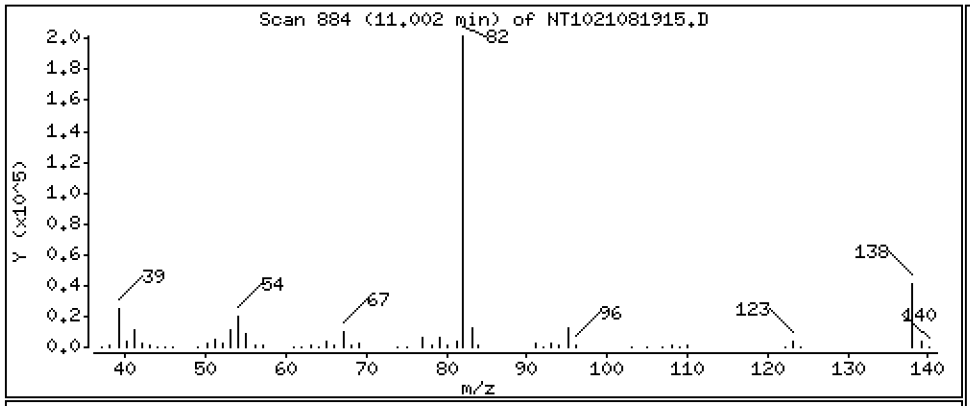
Operator: VTS

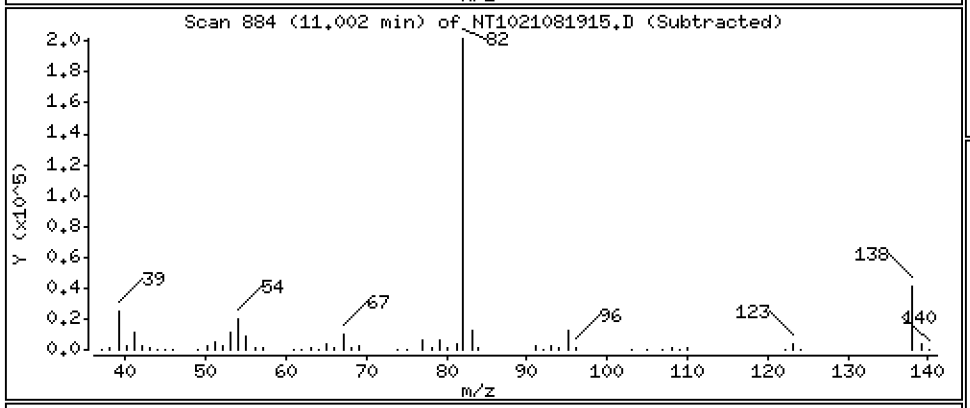
Column phase: ZB-5msi

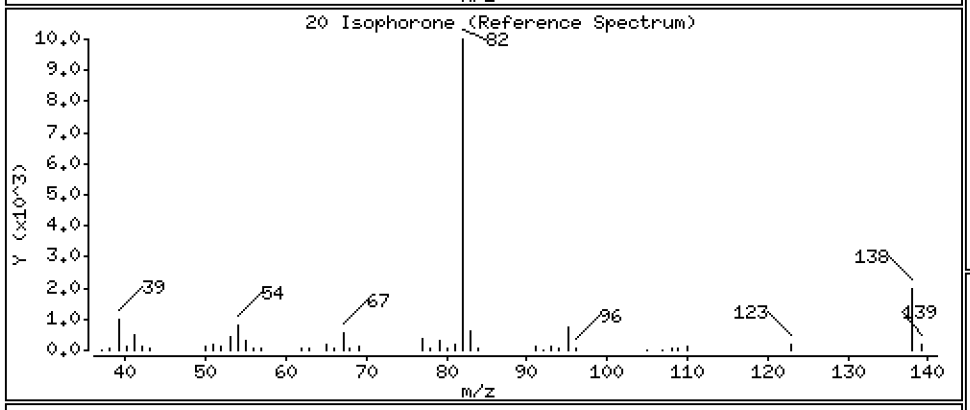
Column diameter: 0.25

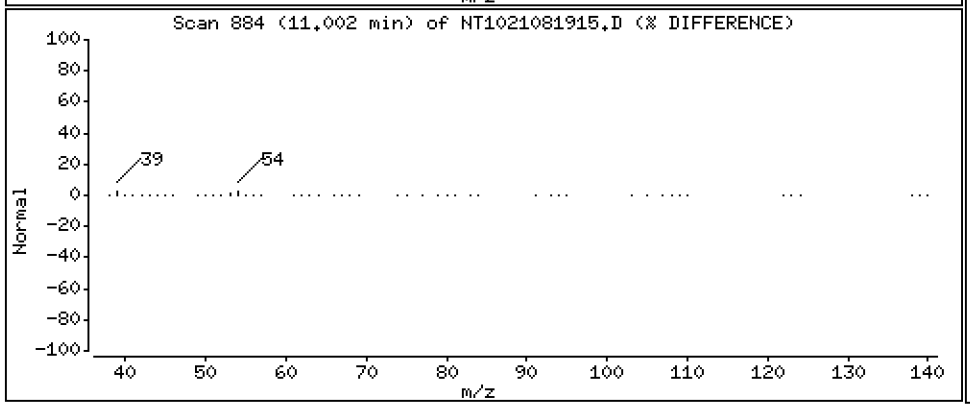
20 Isophorone

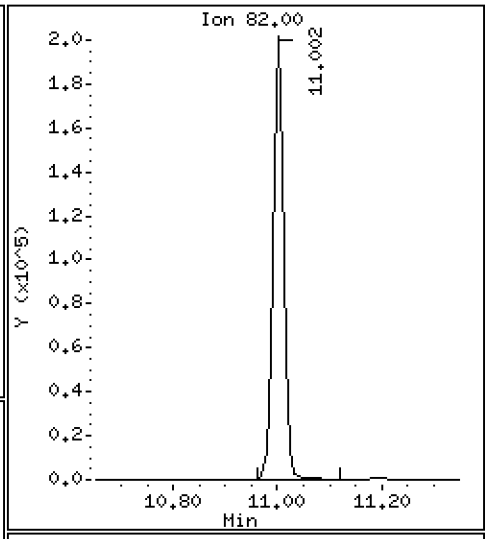
Concentration: 7.778 ug/mL

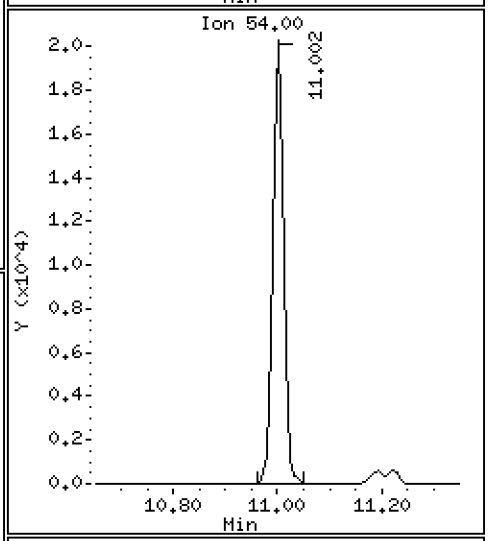


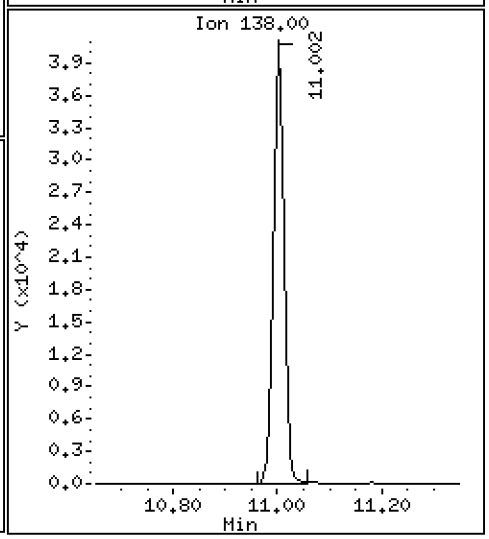












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

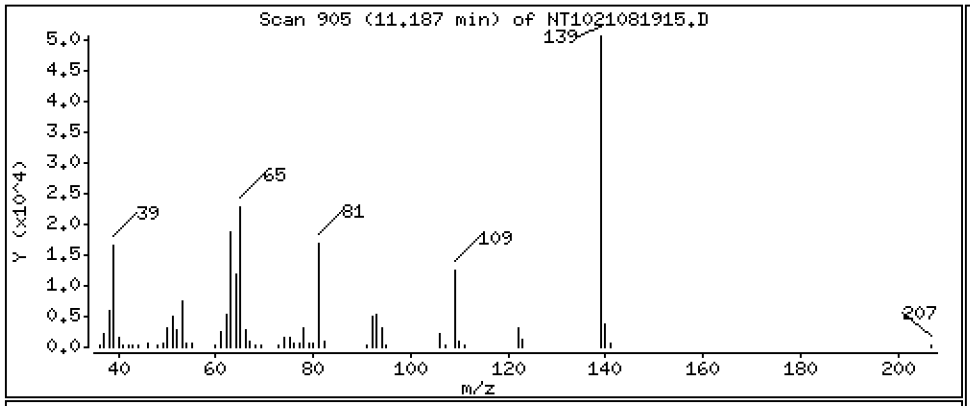
Operator: VTS

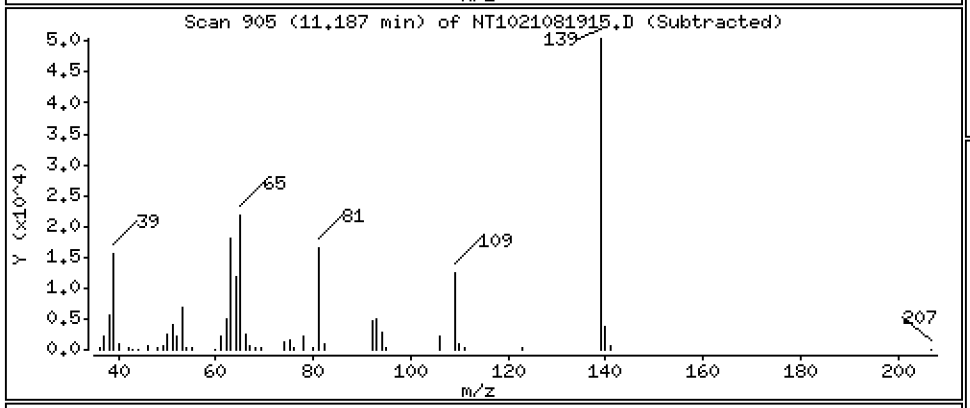
Column phase: ZB-5msi

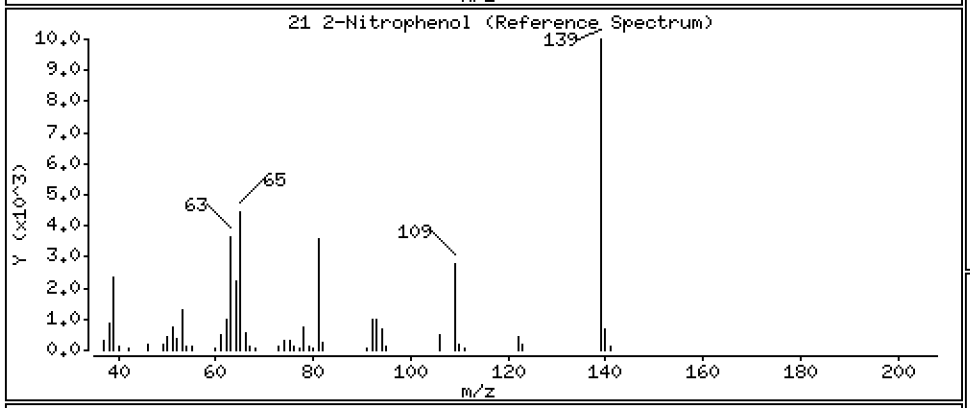
Column diameter: 0.25

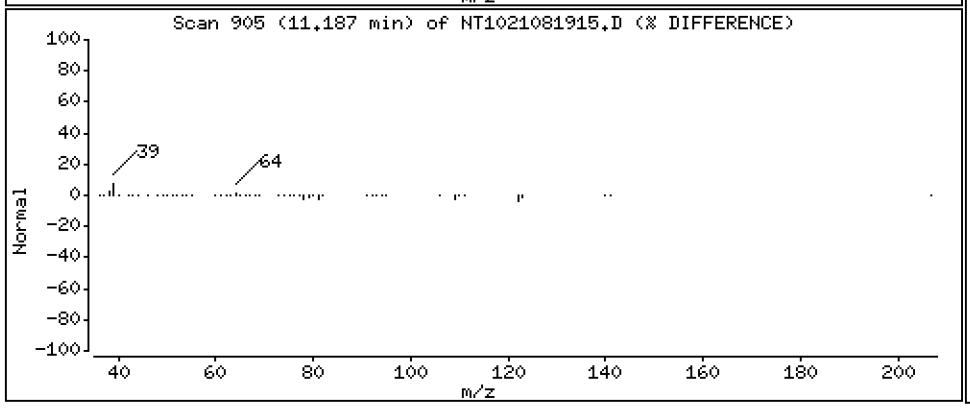
21 2-Nitrophenol

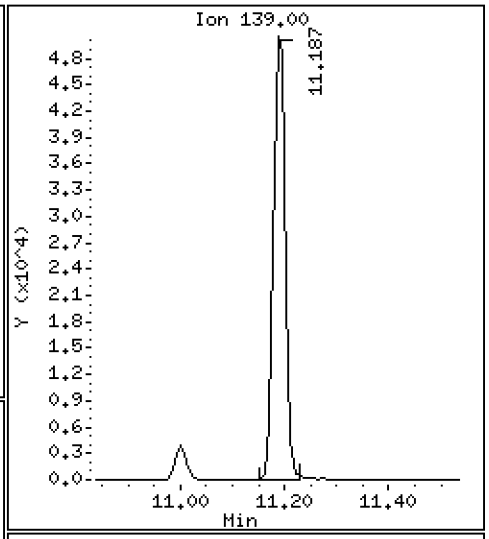
Concentration: 5.178 ug/mL

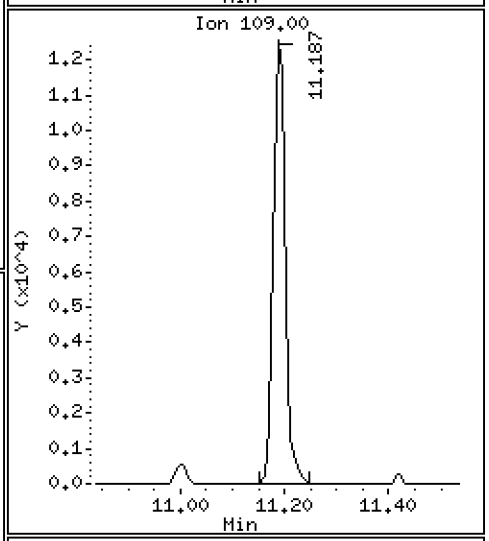


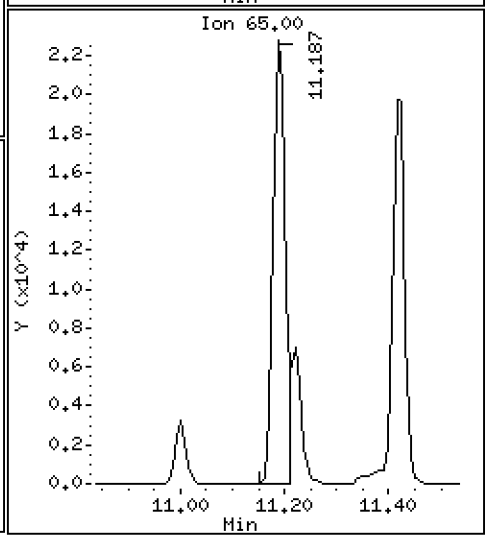












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

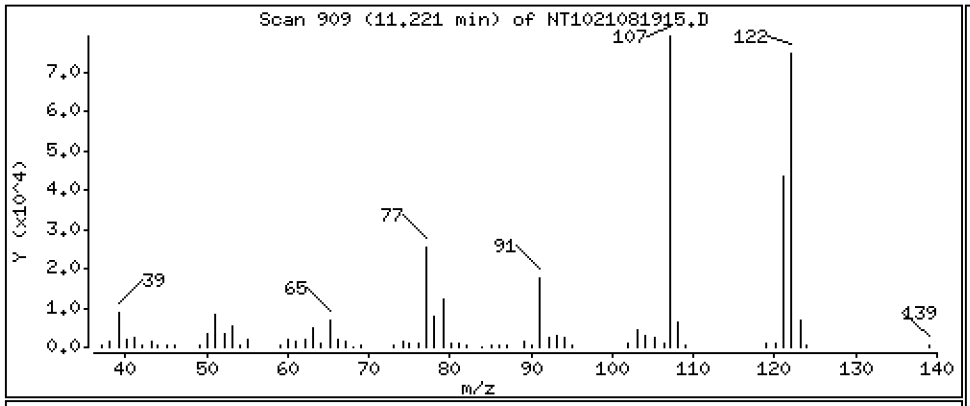
Operator: VTS

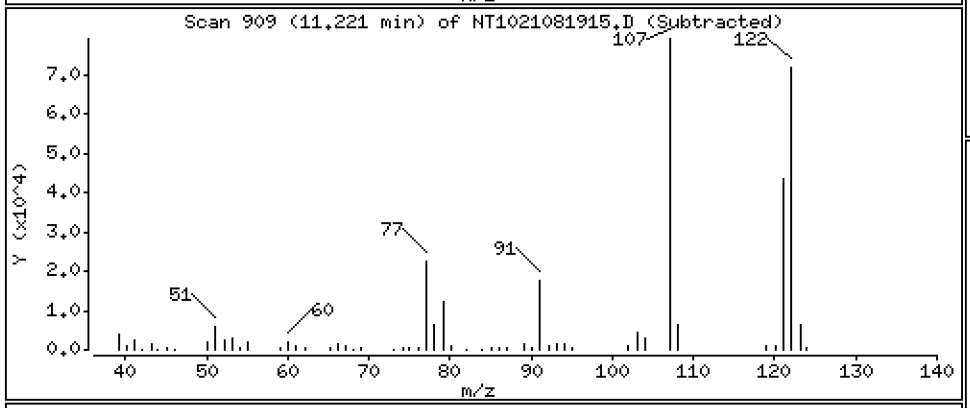
Column phase: ZB-5msi

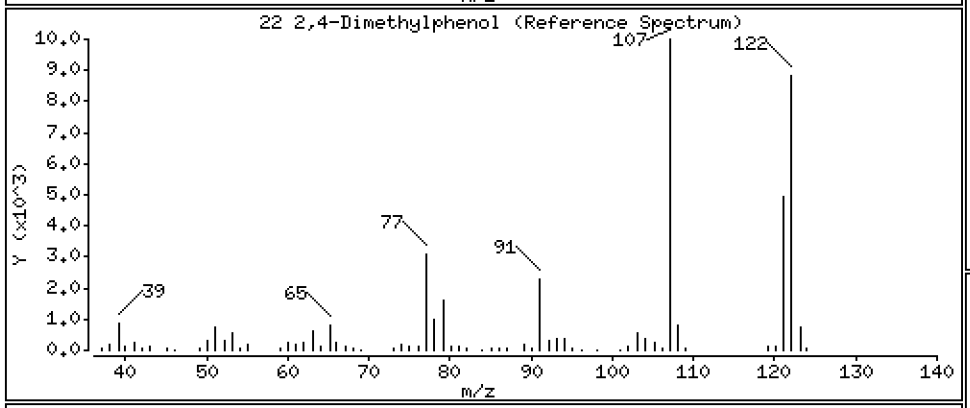
Column diameter: 0.25

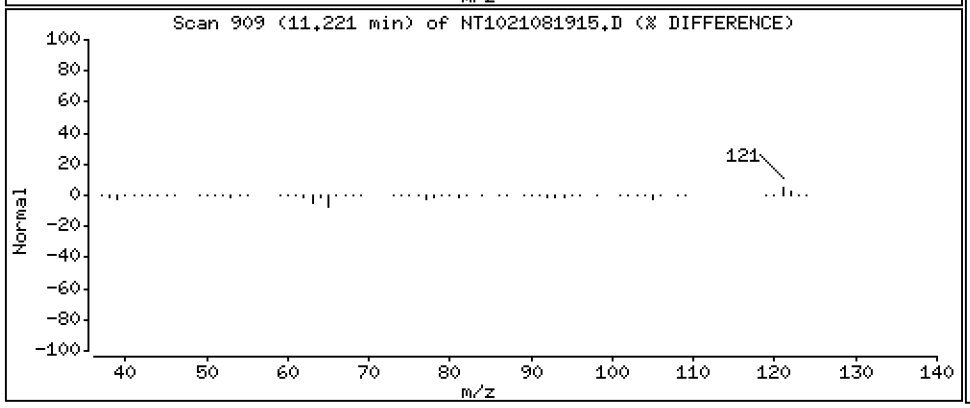
22 2,4-Dimethylphenol

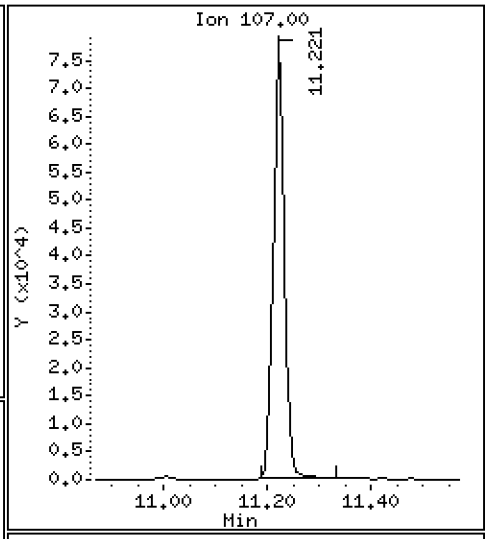
Concentration: 4.920 ug/mL

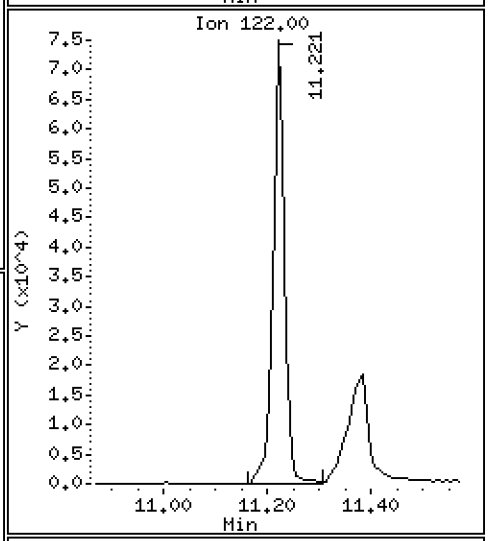


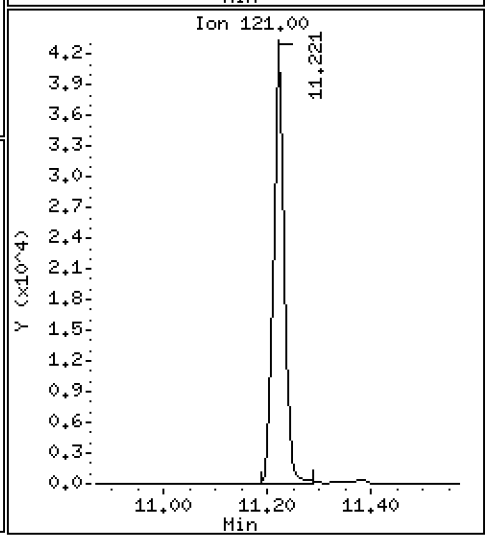












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

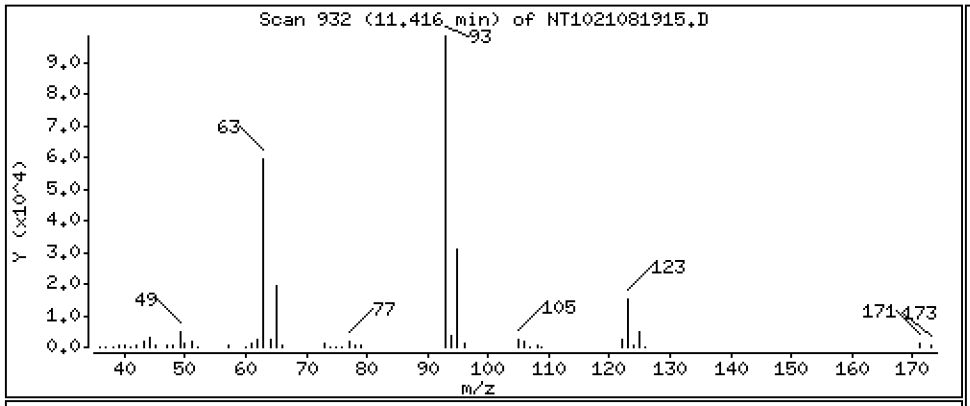
Operator: VTS

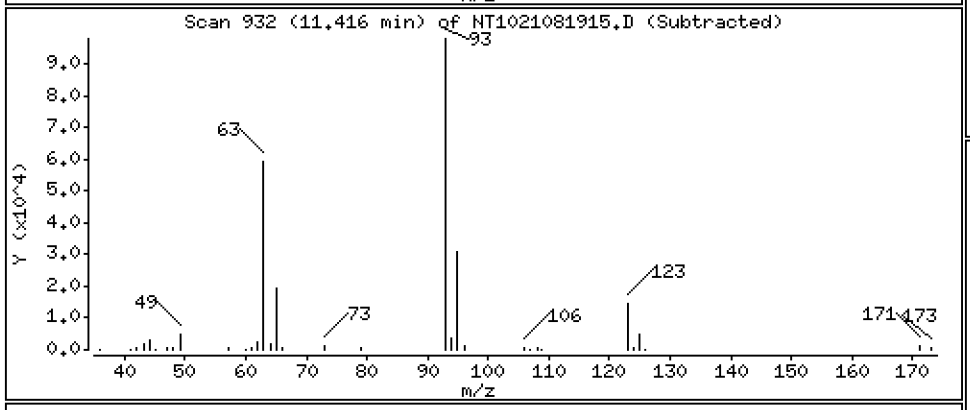
Column phase: ZB-5msi

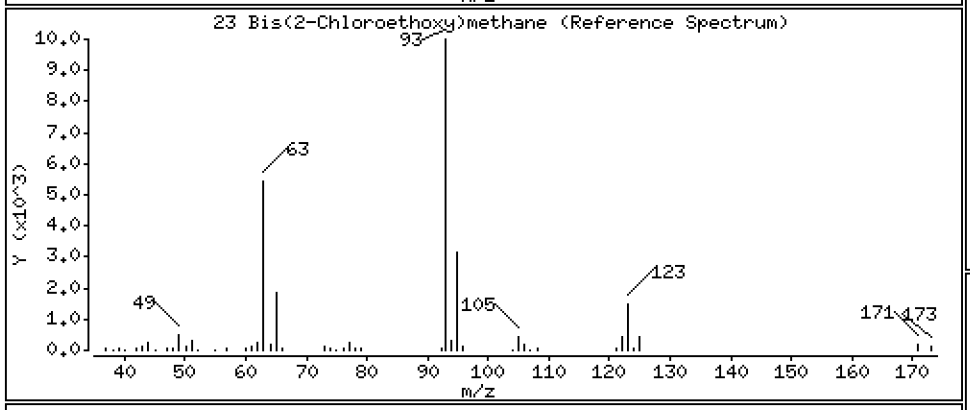
Column diameter: 0.25

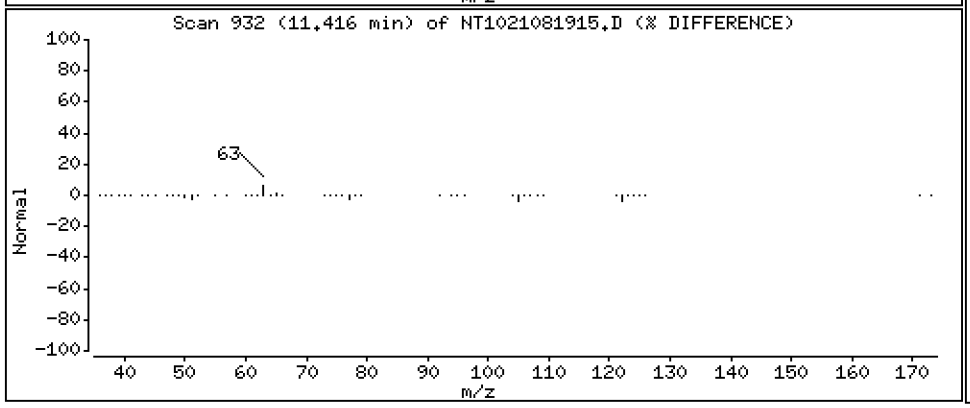
23 Bis(2-Chloroethoxy)methane

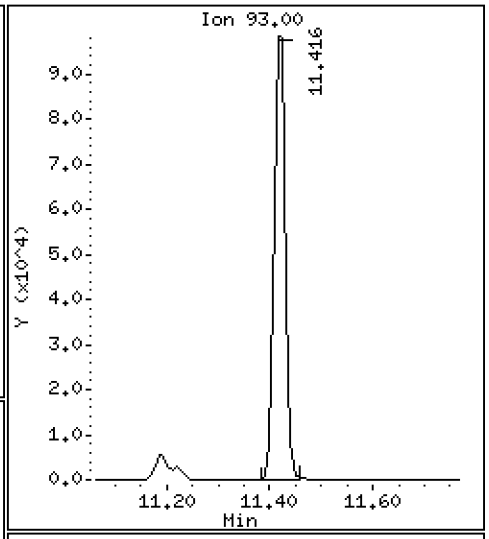
Concentration: 5.938 ug/mL

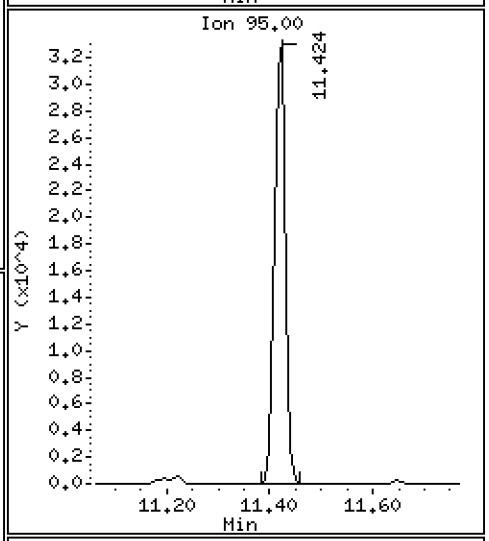


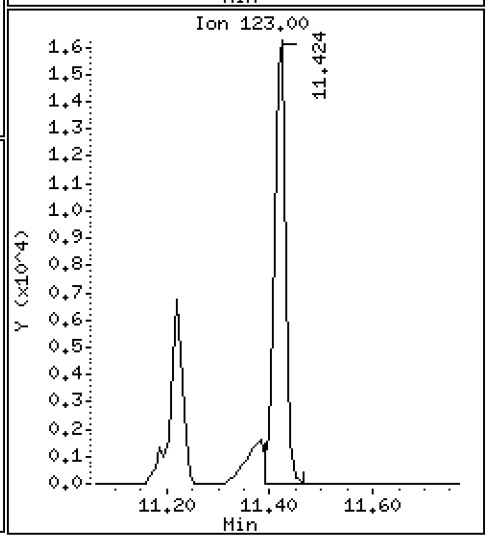












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

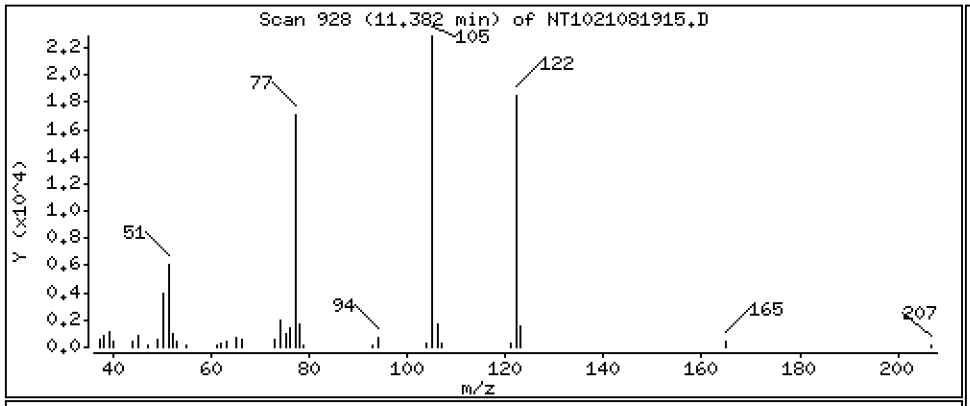
Operator: VTS

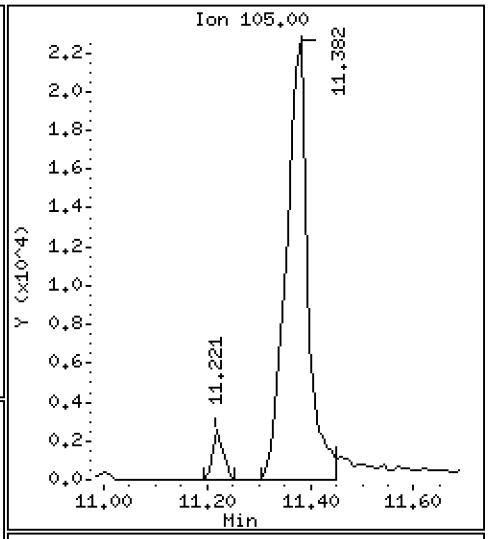
Column phase: ZB-5msi

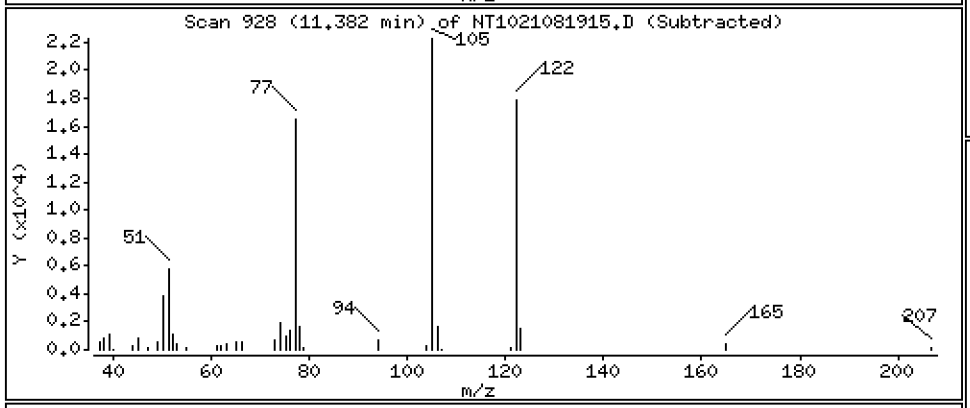
Column diameter: 0.25

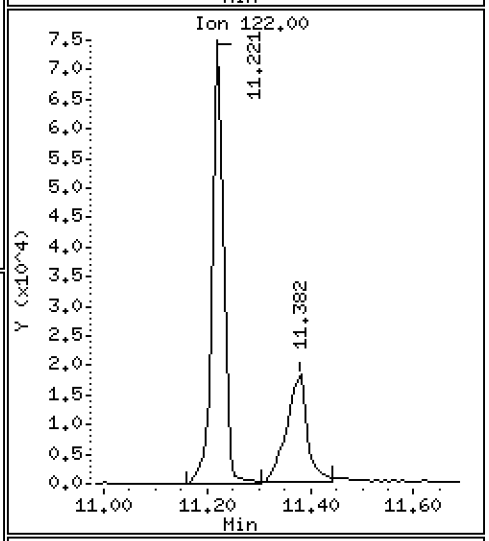
24 Benzoic acid

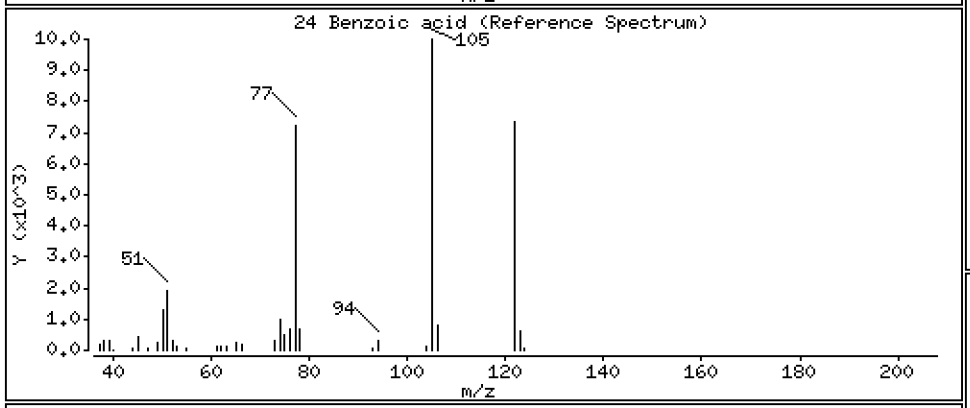
Concentration: 5.378 ug/mL

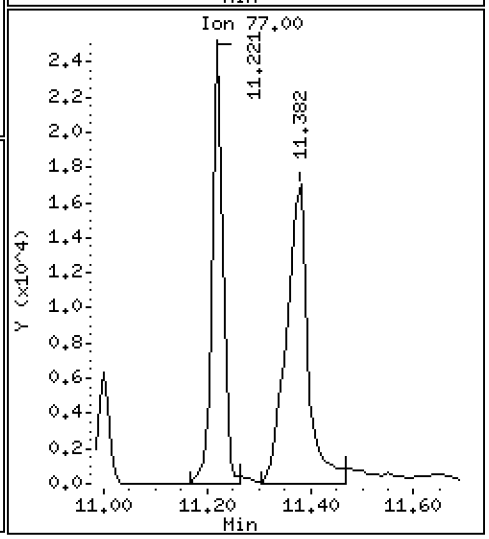


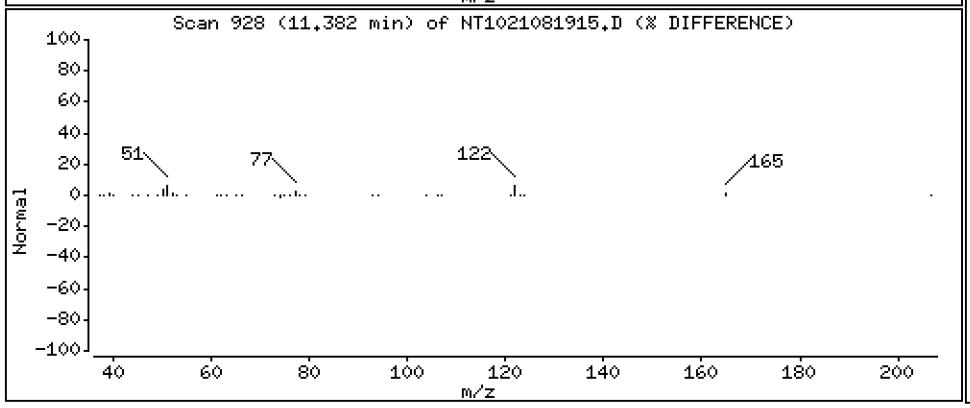












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

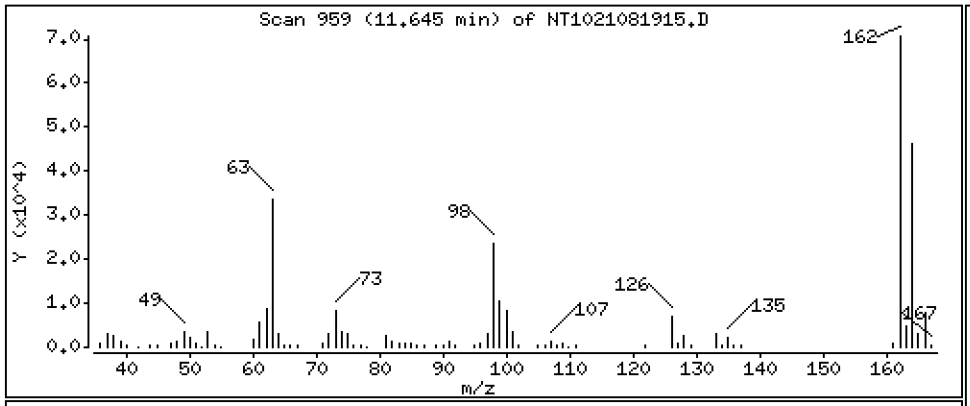
Operator: VTS

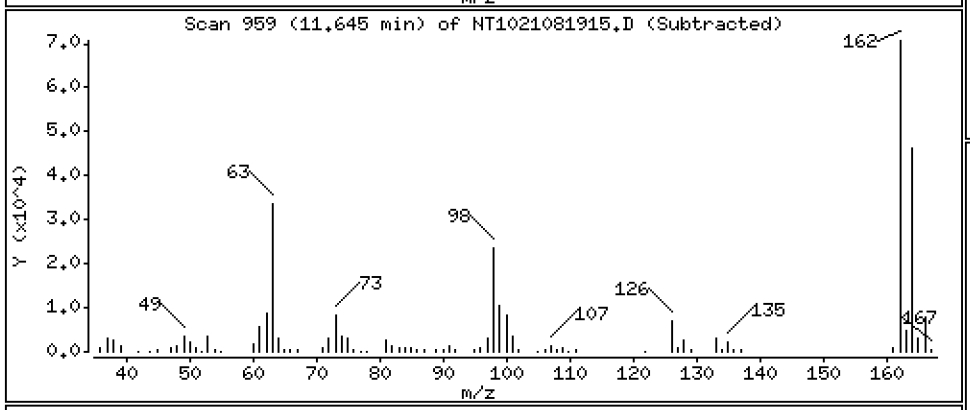
Column phase: ZB-5msi

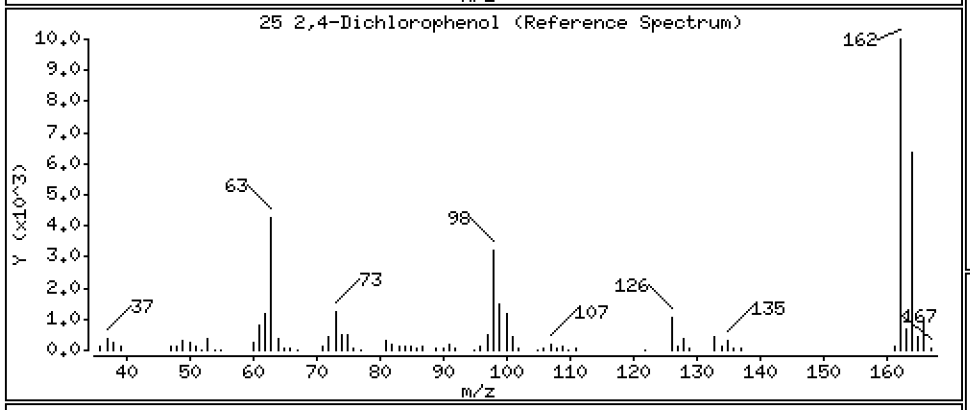
Column diameter: 0.25

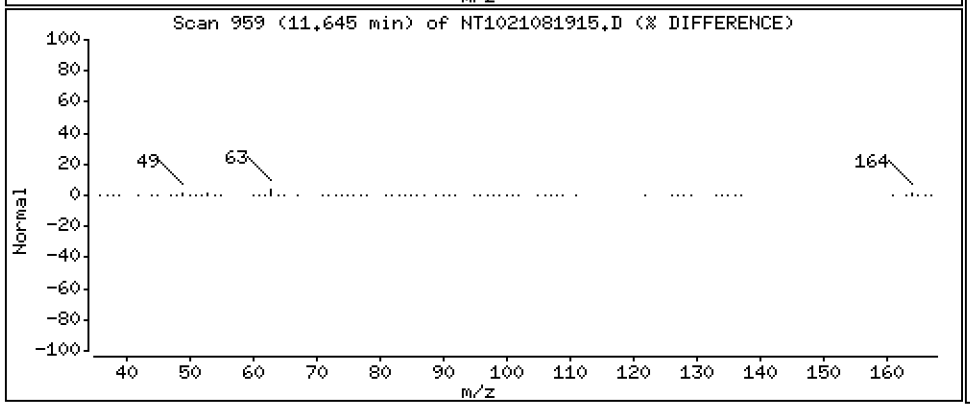
25 2,4-Dichlorophenol

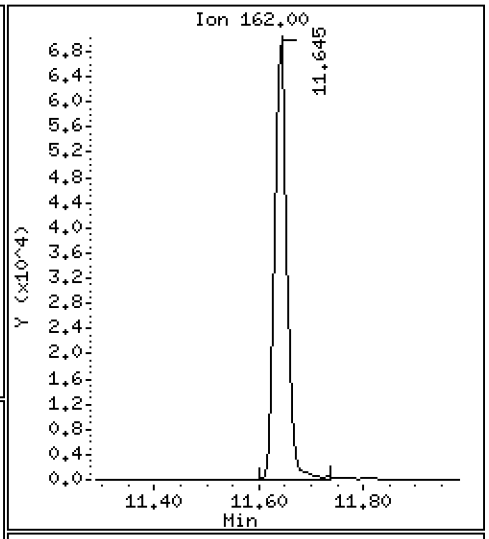
Concentration: 5.147 ug/mL

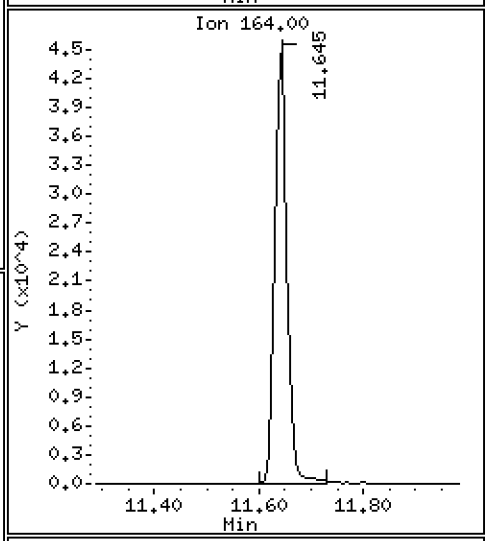


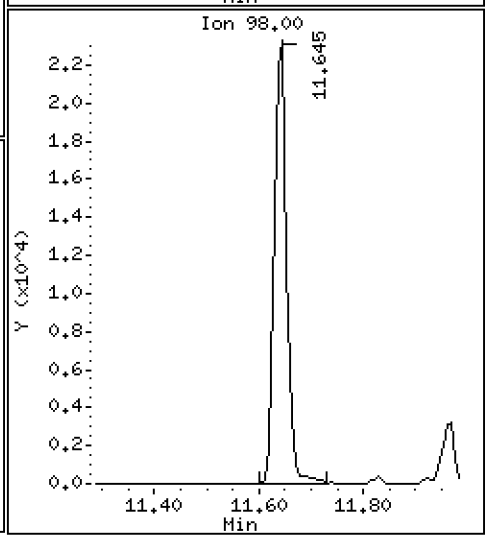












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

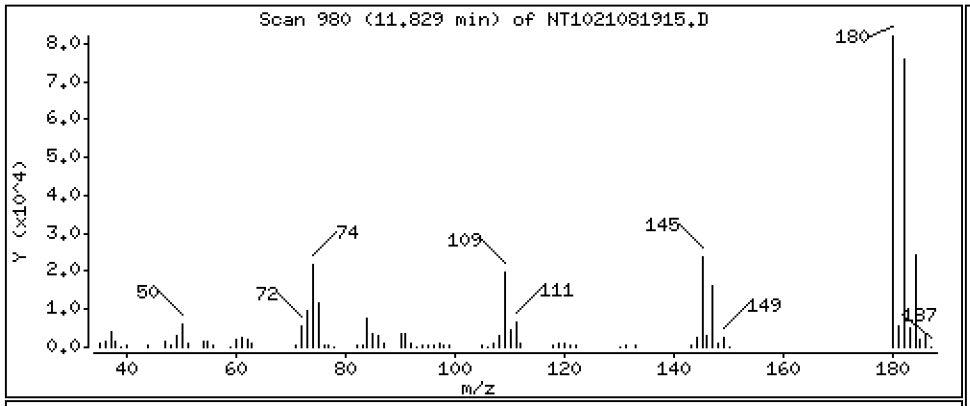
Operator: VTS

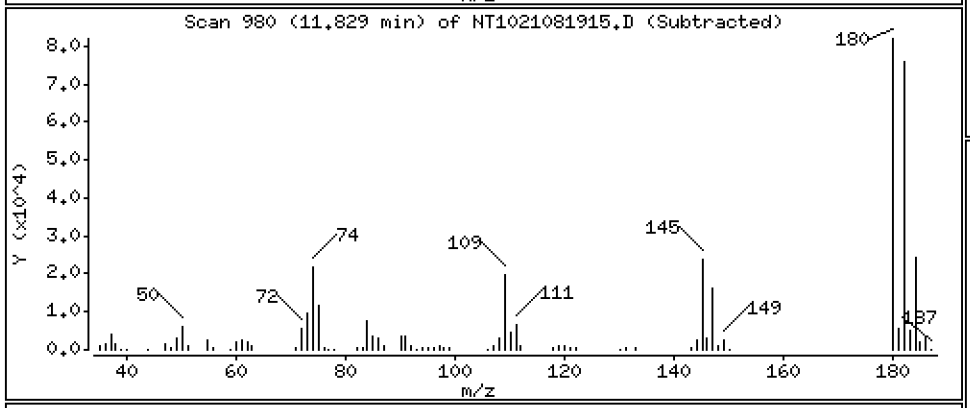
Column phase: ZB-5msi

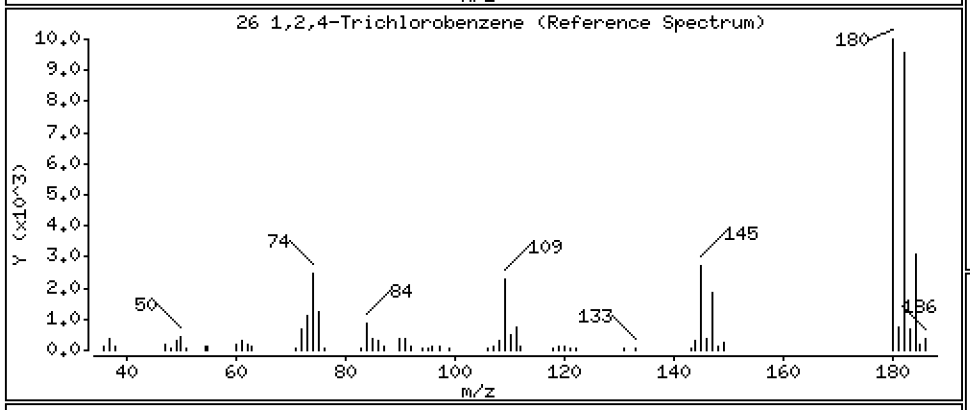
Column diameter: 0.25

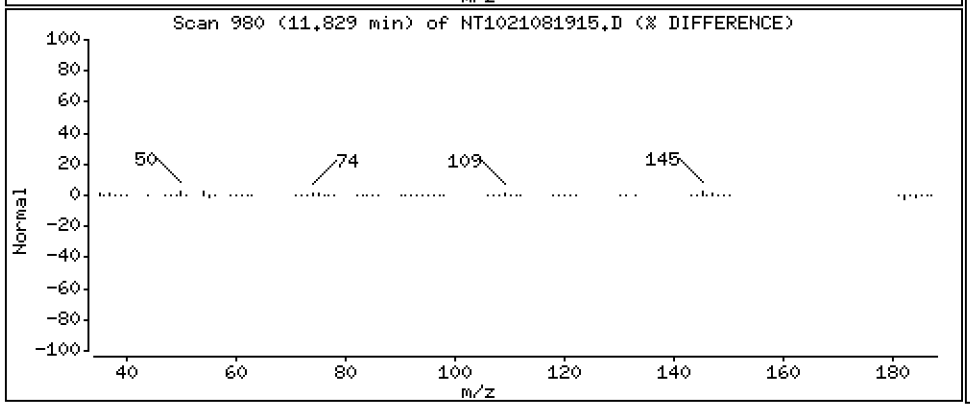
26 1,2,4-Trichlorobenzene

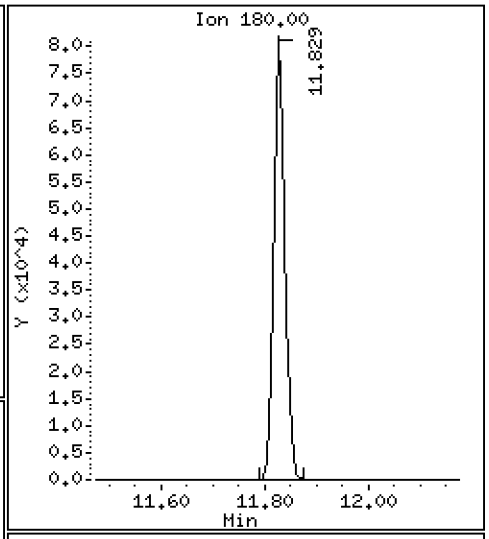
Concentration: 5.000 ug/mL

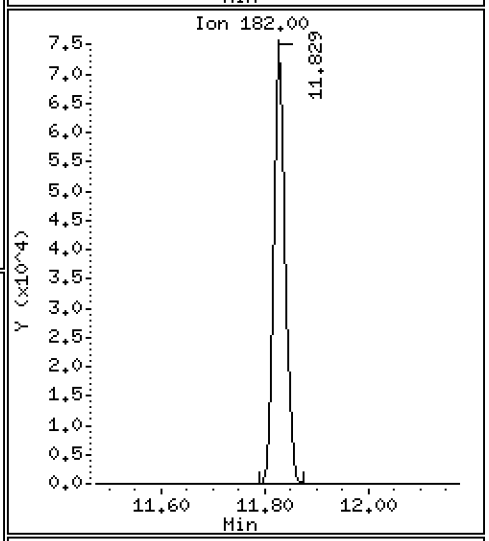


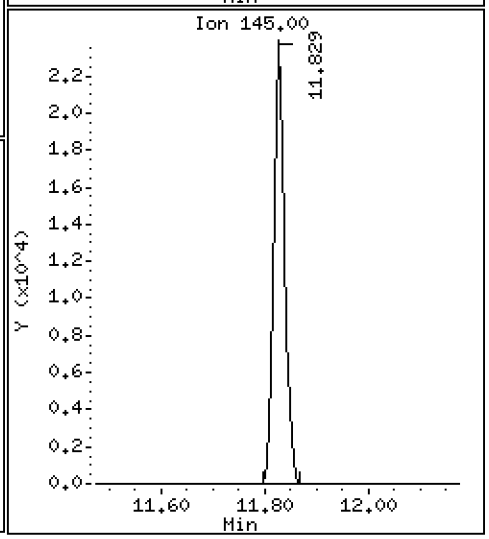












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

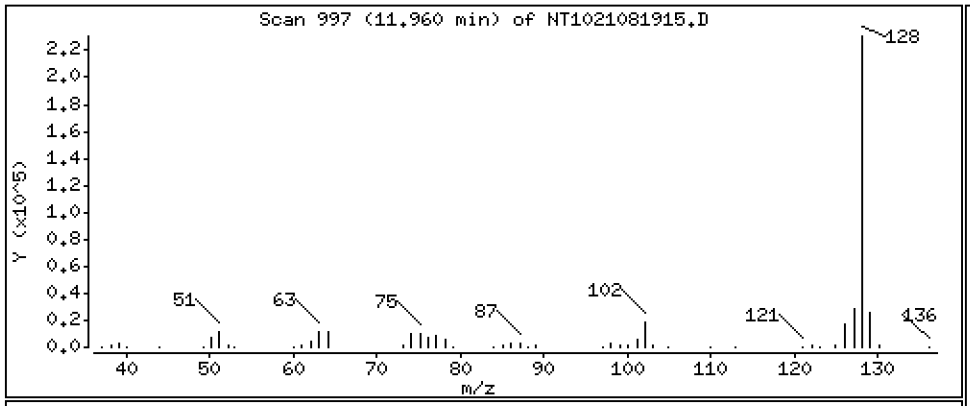
Operator: VTS

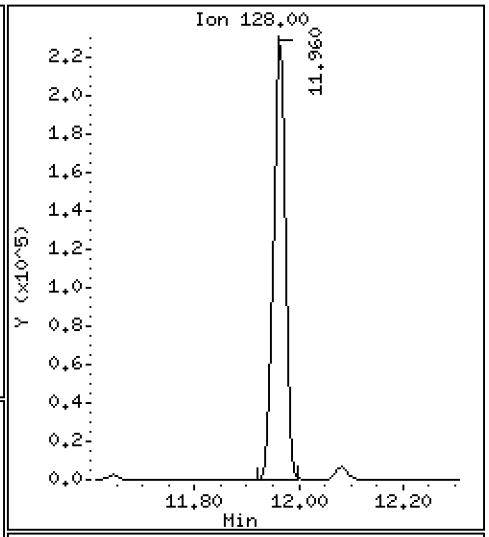
Column phase: ZB-5msi

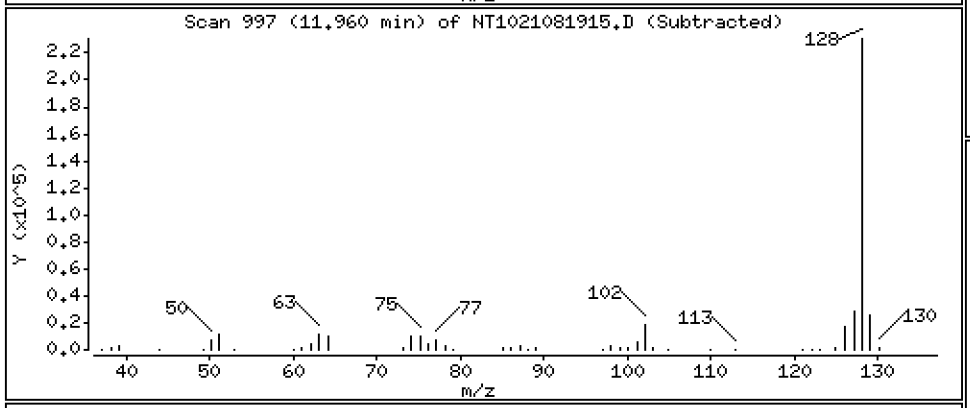
Column diameter: 0.25

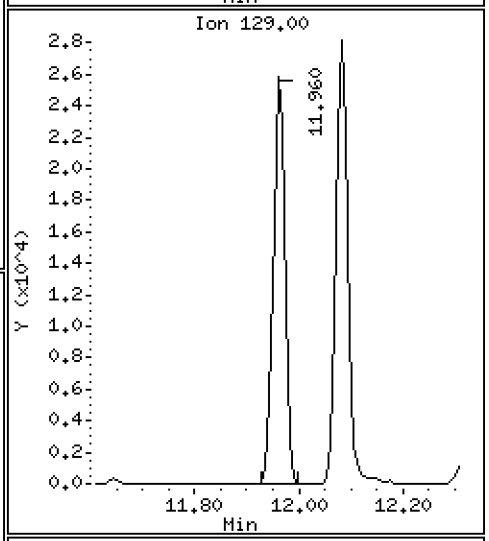
28 Naphthalene

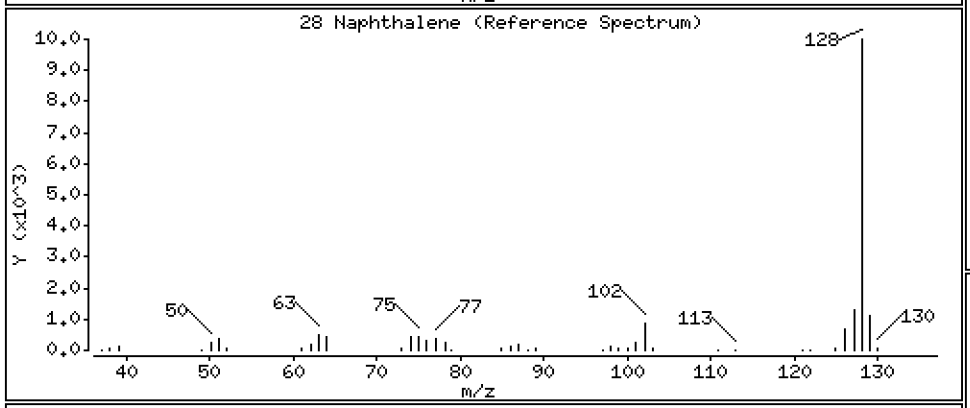
Concentration: 5.100 ug/mL

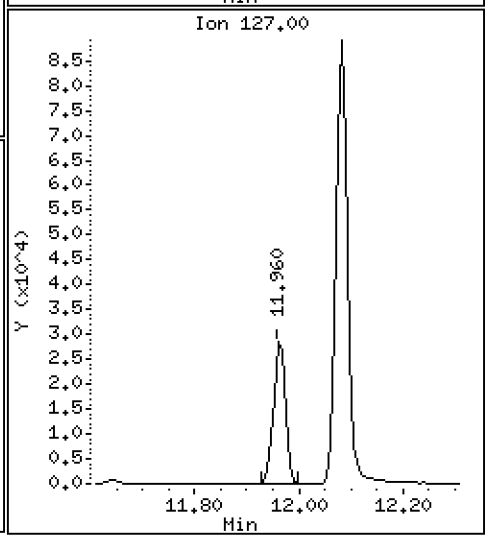


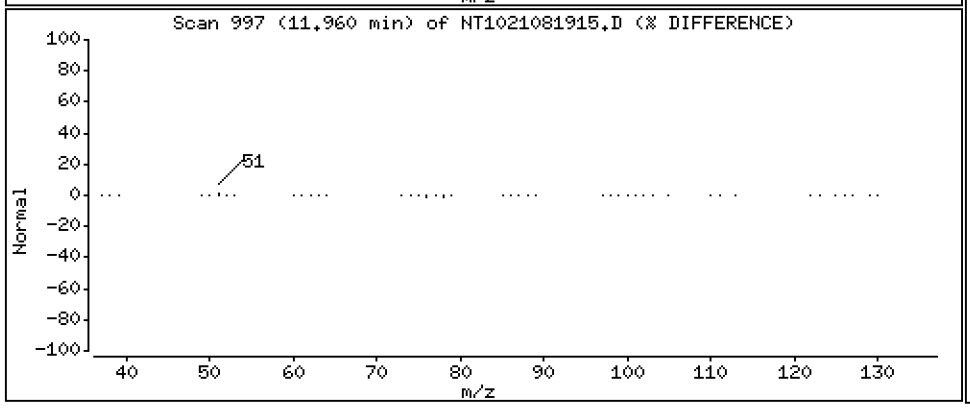












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

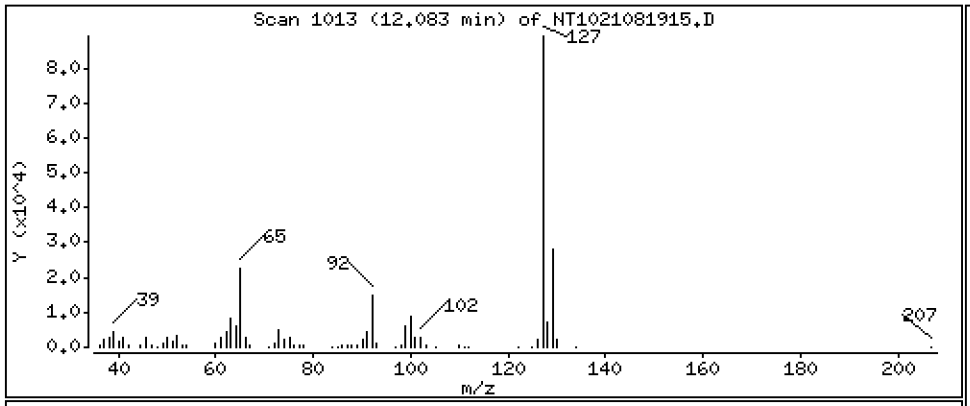
Operator: VTS

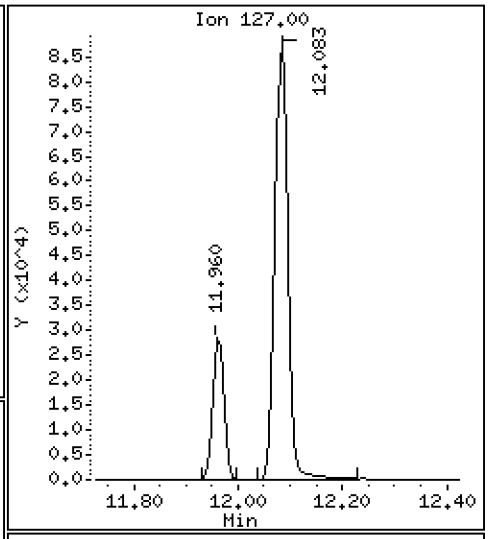
Column phase: ZB-5msi

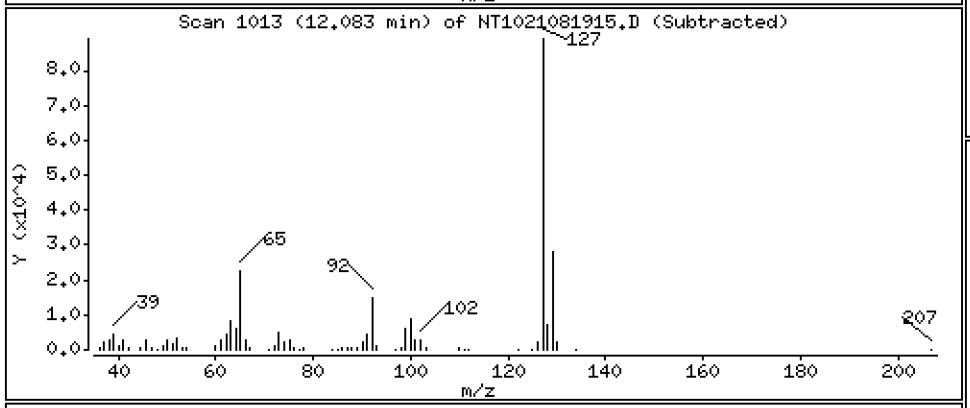
Column diameter: 0.25

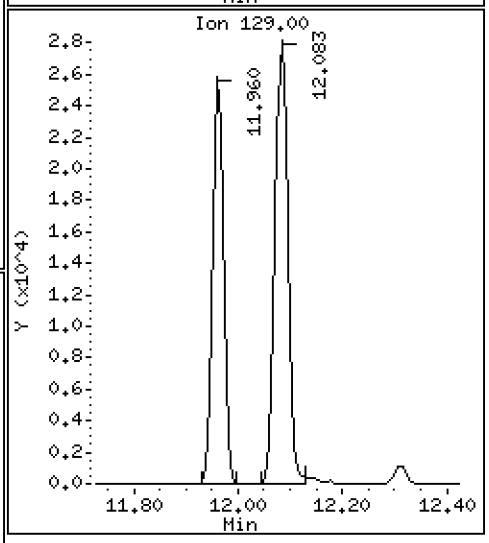
29 4-Chloroaniline

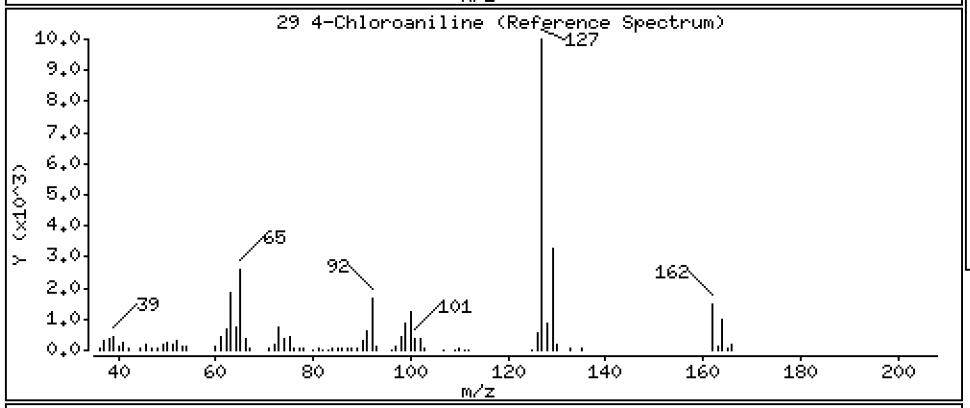
Concentration: 4.593 ug/mL

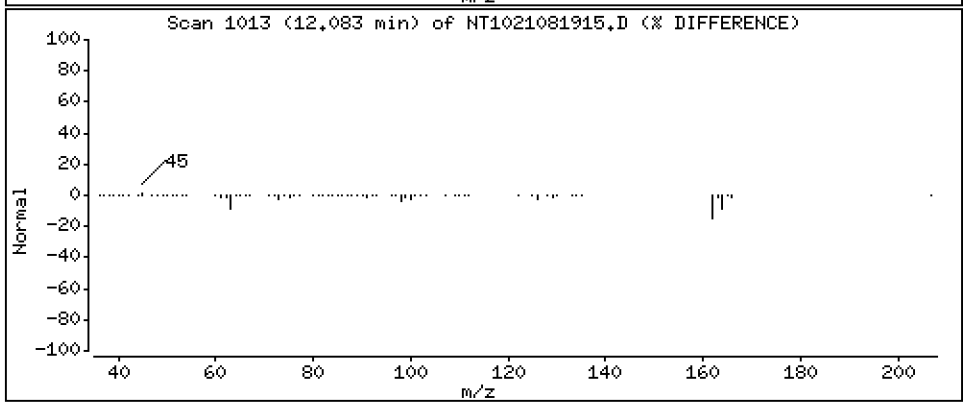












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

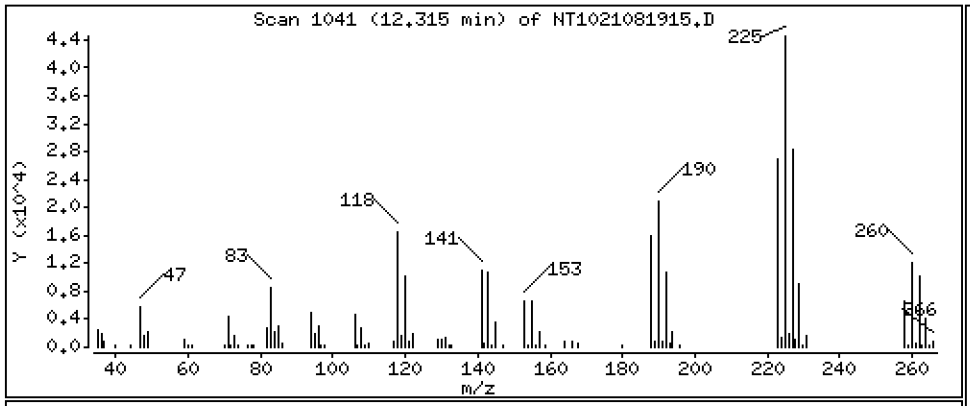
Operator: VTS

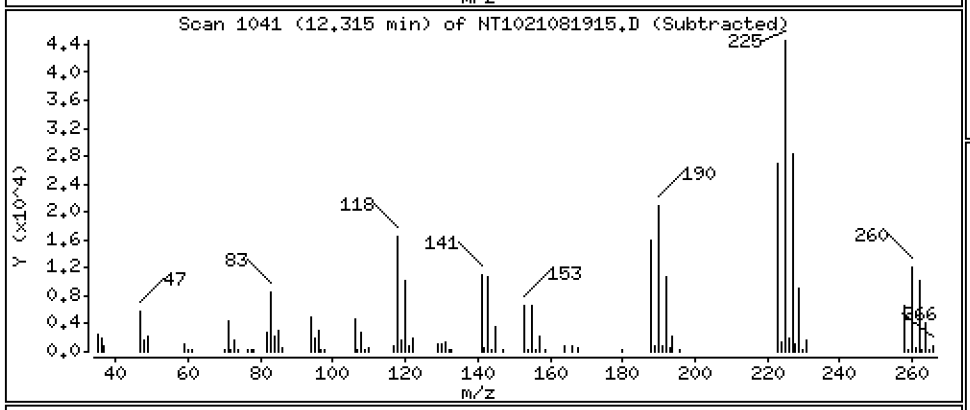
Column phase: ZB-5msi

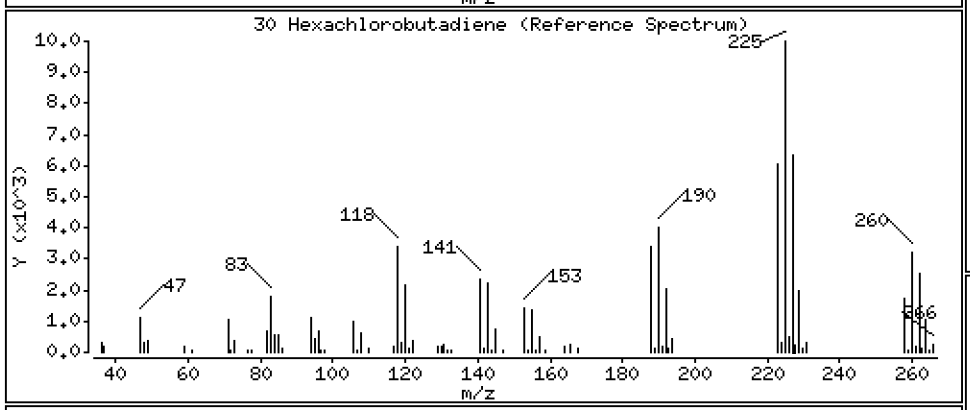
Column diameter: 0.25

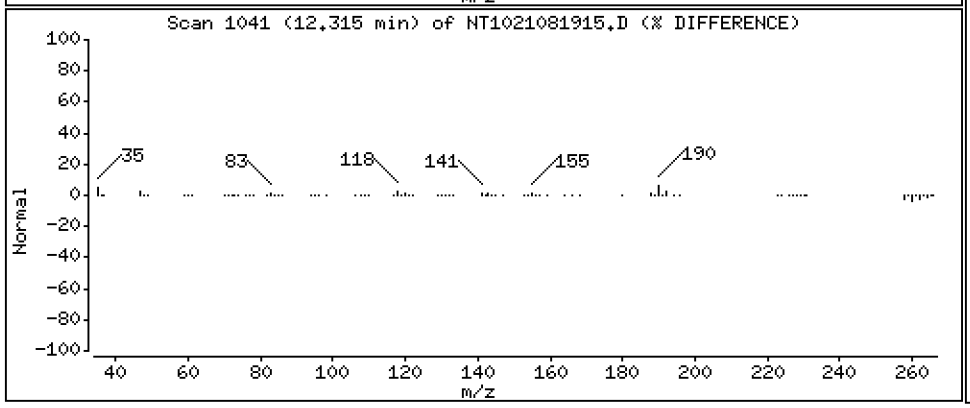
30 Hexachlorobutadiene

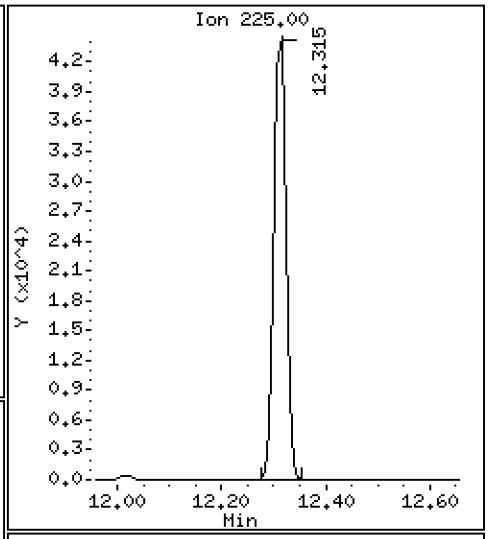
Concentration: 5.107 ug/mL

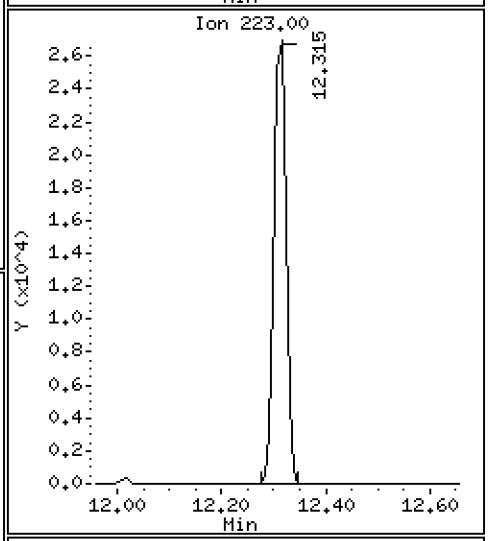


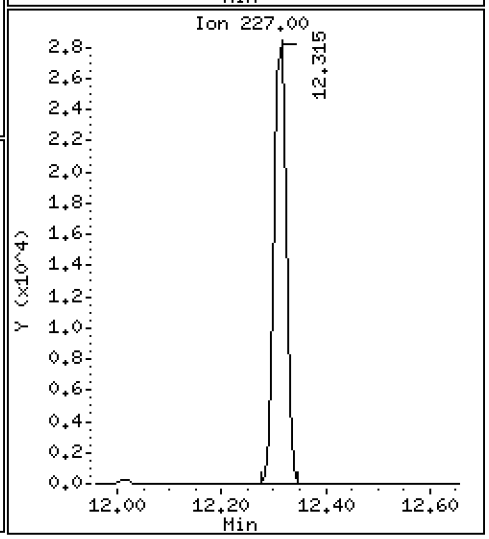












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

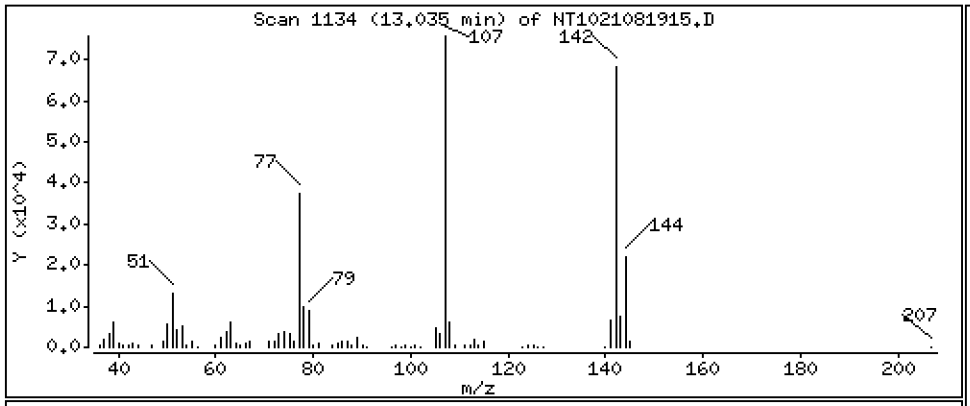
Operator: VTS

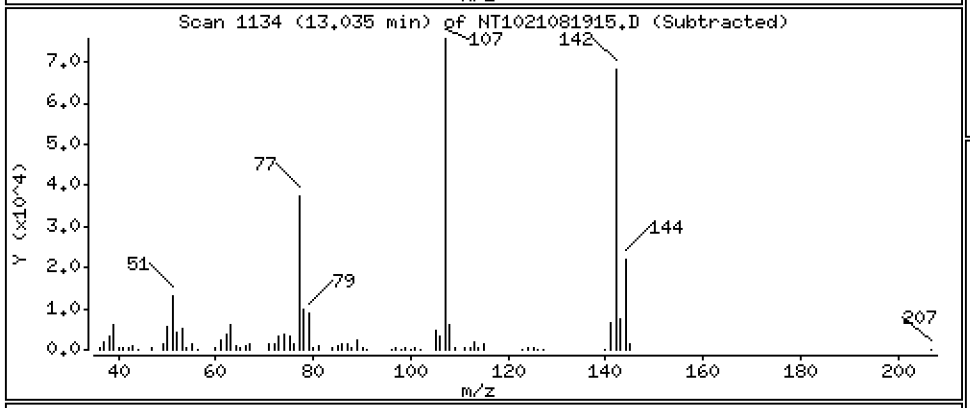
Column phase: ZB-5msi

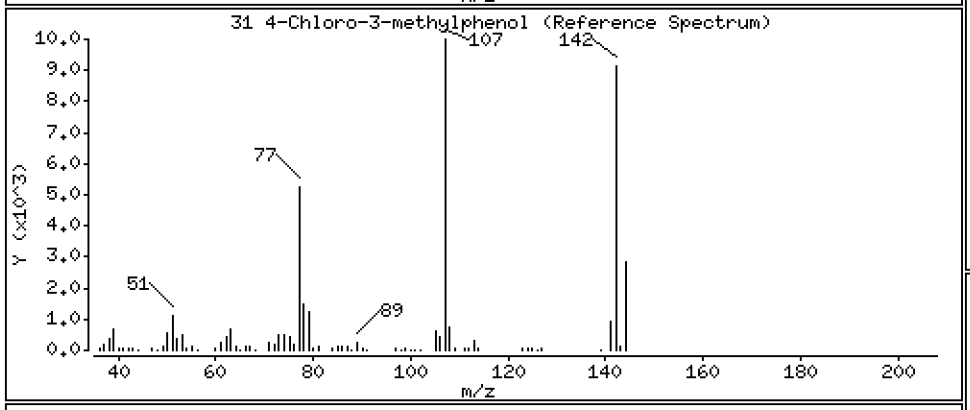
Column diameter: 0.25

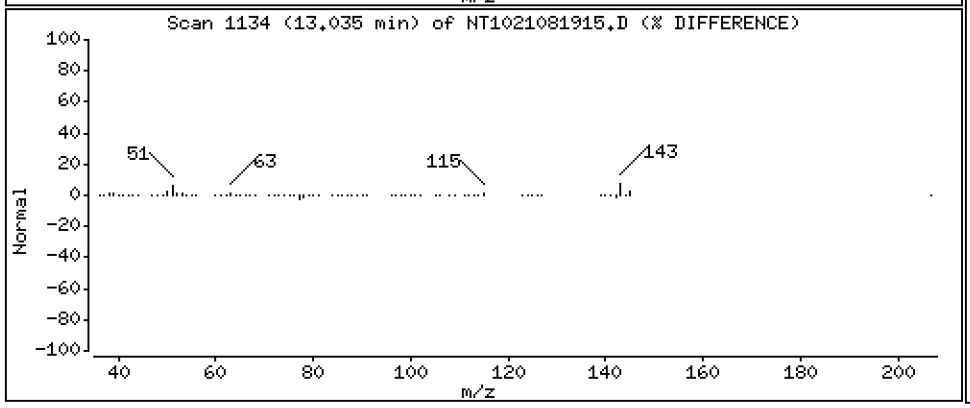
31 4-Chloro-3-methylphenol

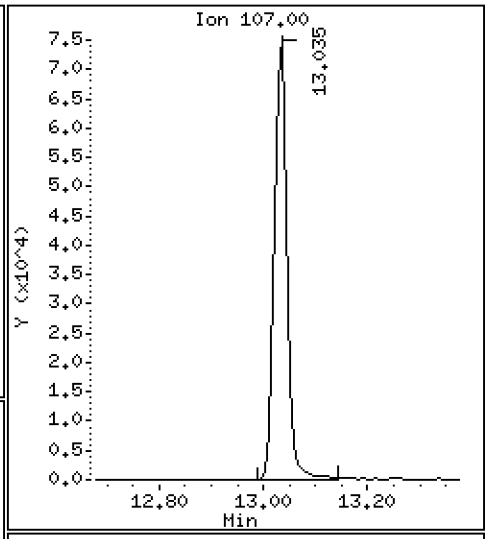
Concentration: 4.925 ug/mL

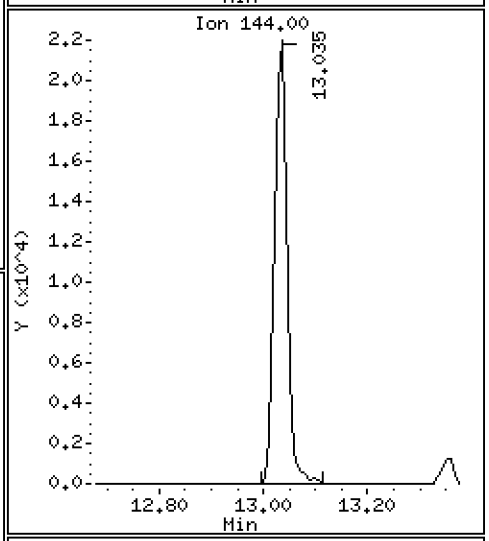


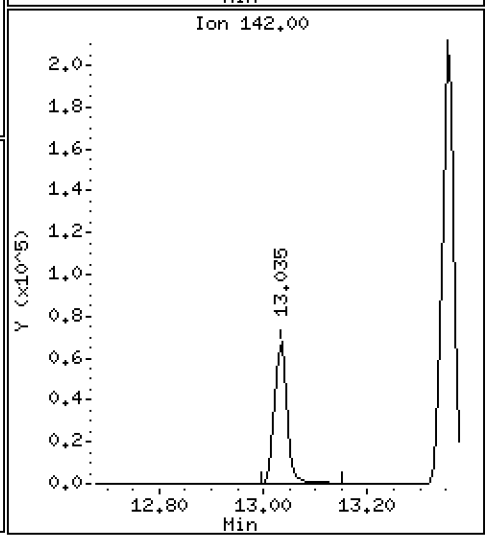












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

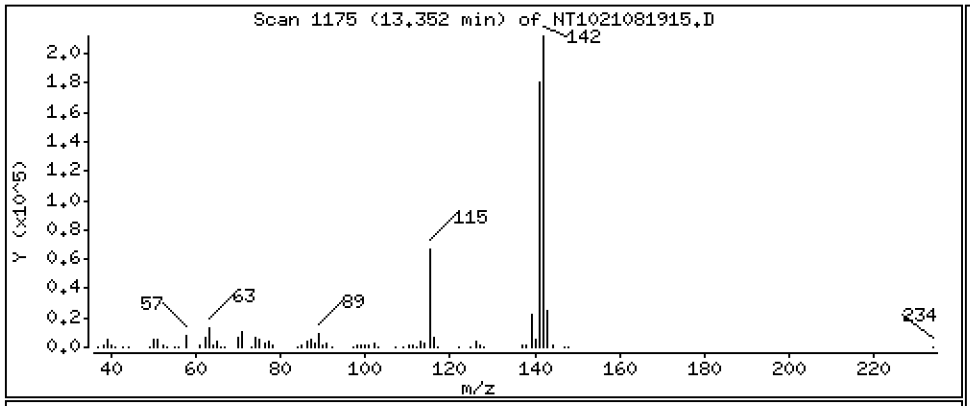
Operator: VTS

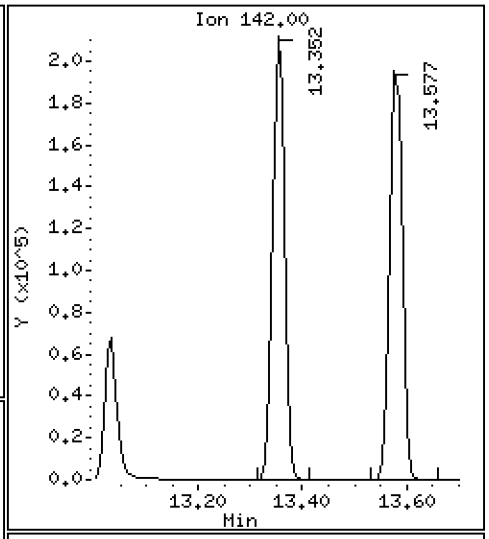
Column phase: ZB-5msi

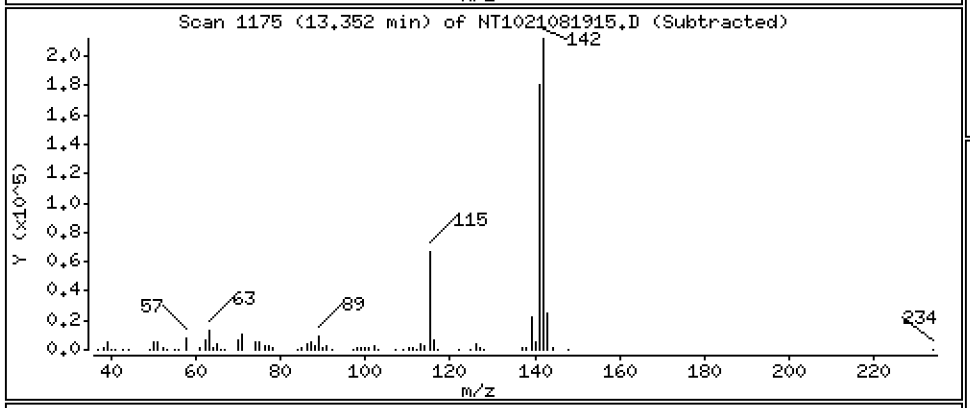
Column diameter: 0.25

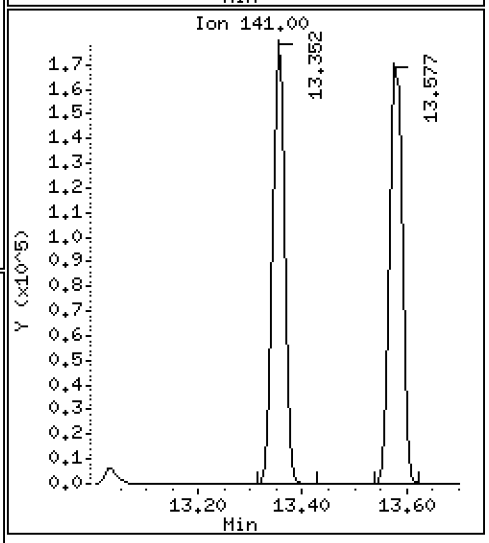
32 2-Methylnaphthalene

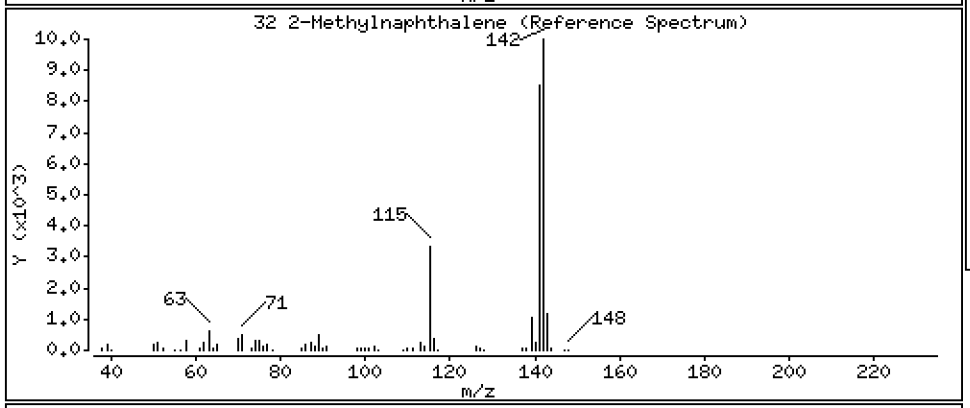
Concentration: 4.723 ug/mL

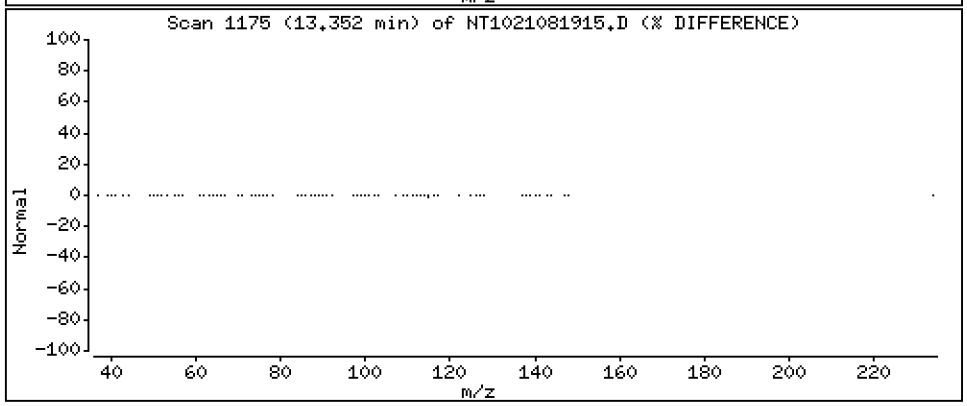












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

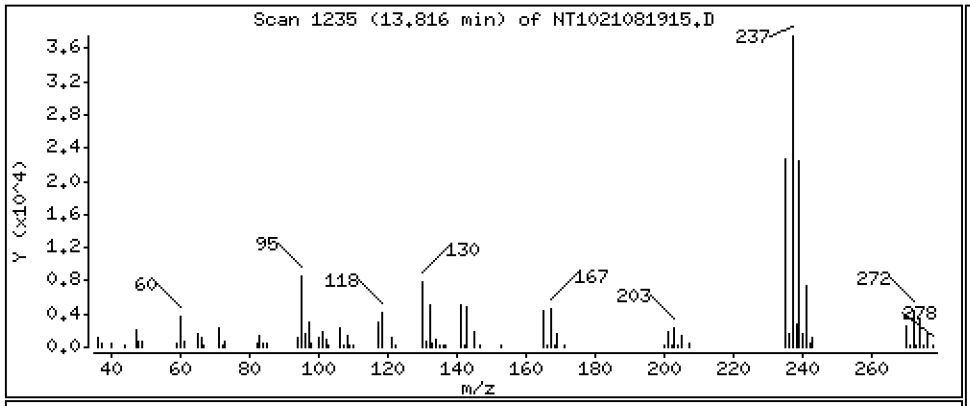
Operator: VTS

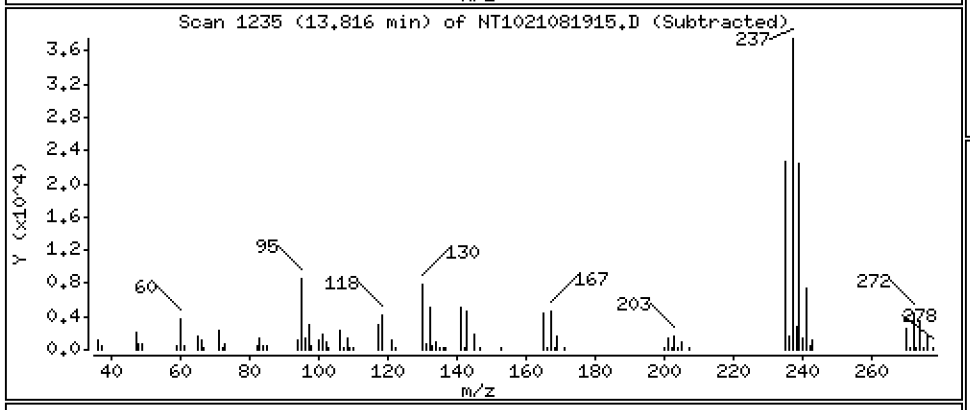
Column phase: ZB-5msi

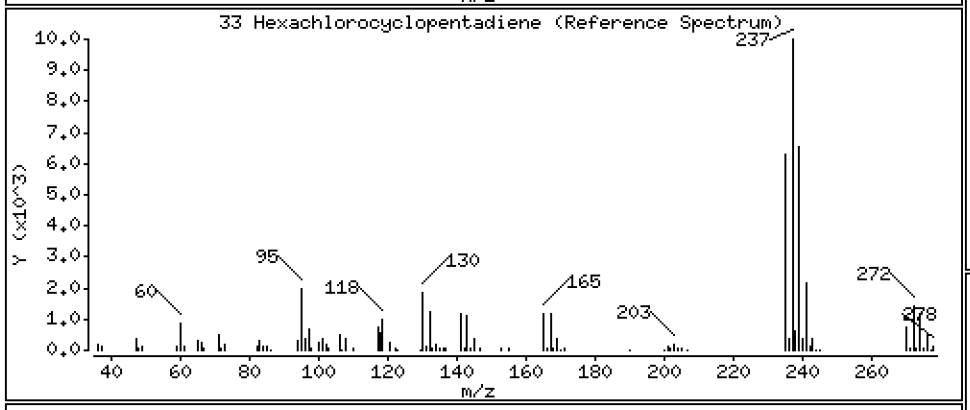
Column diameter: 0.25

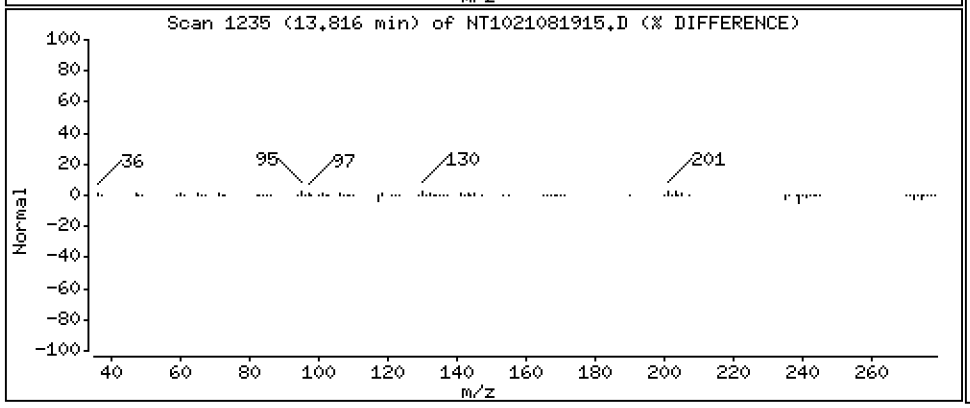
33 Hexachlorocyclopentadiene

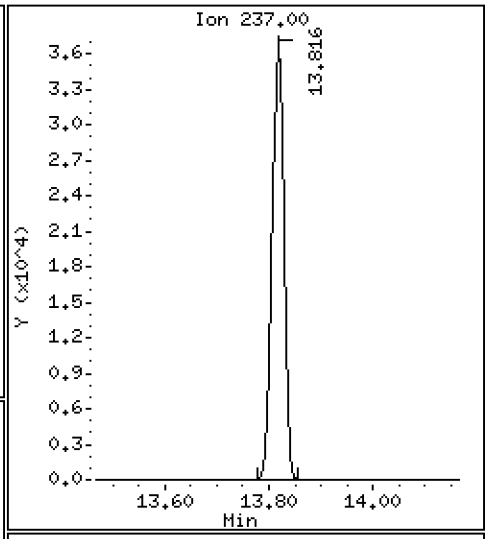
Concentration: 4.314 ug/mL

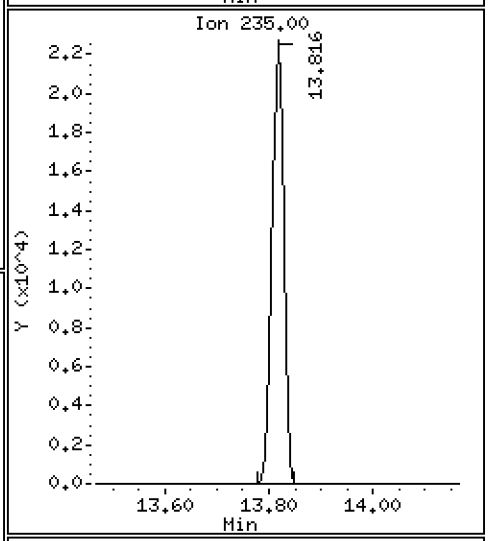


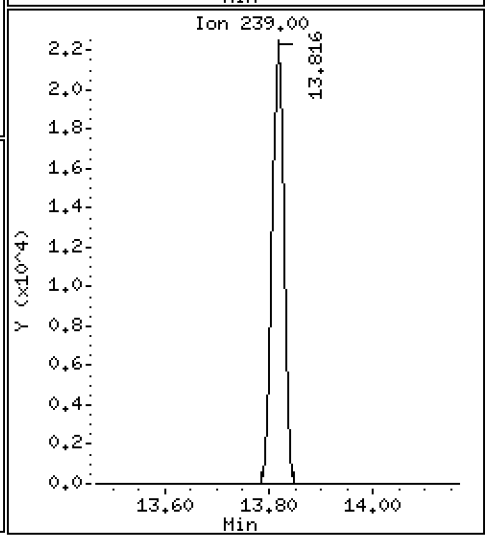












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

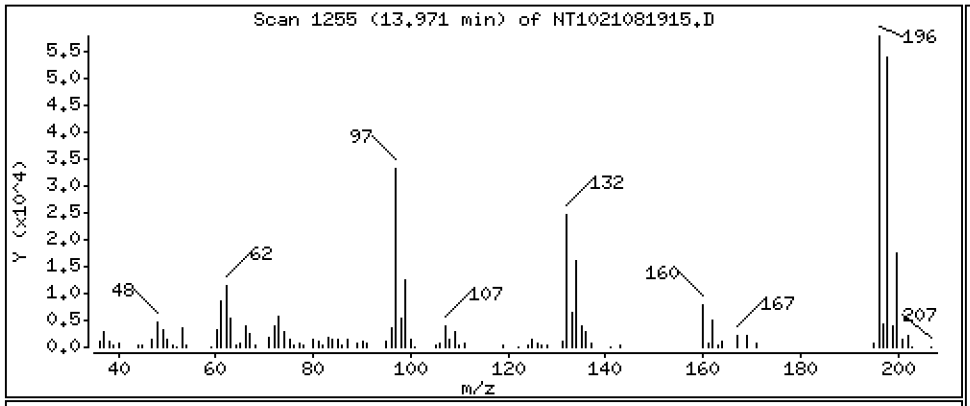
Operator: VTS

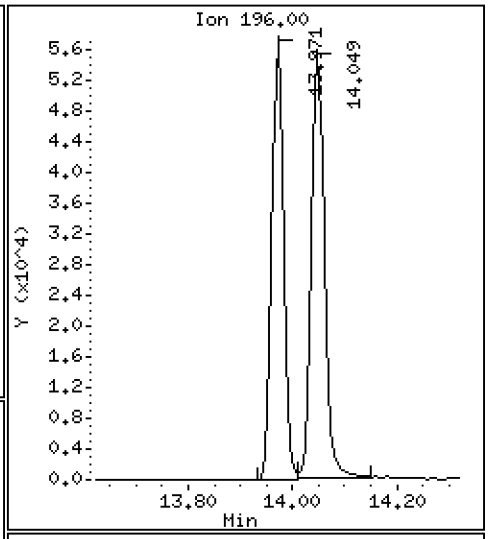
Column phase: ZB-5msi

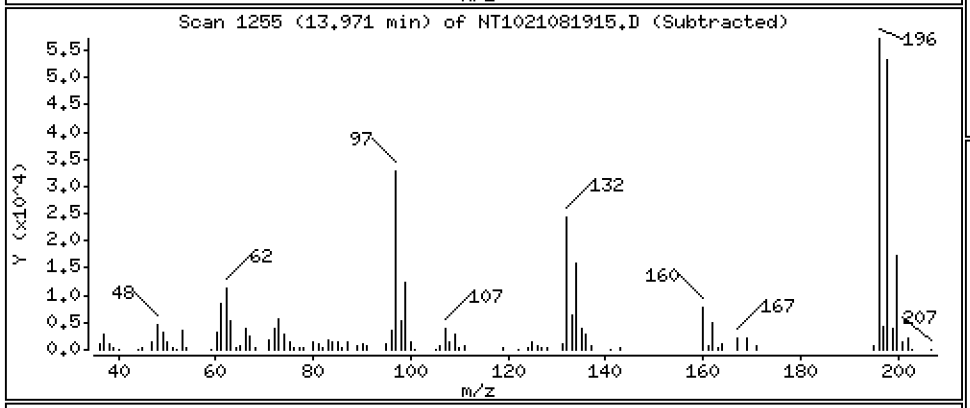
Column diameter: 0.25

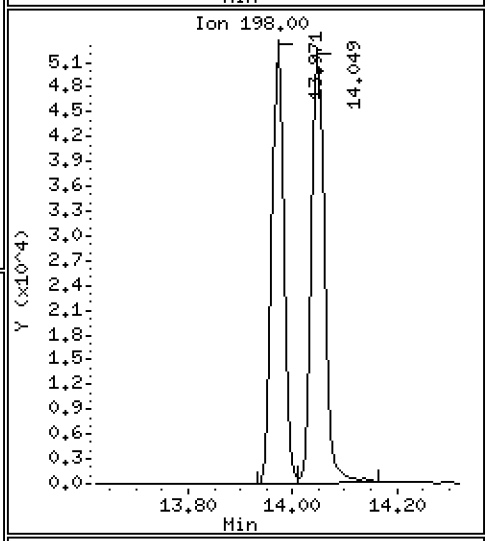
34 2,4,6-Trichlorophenol

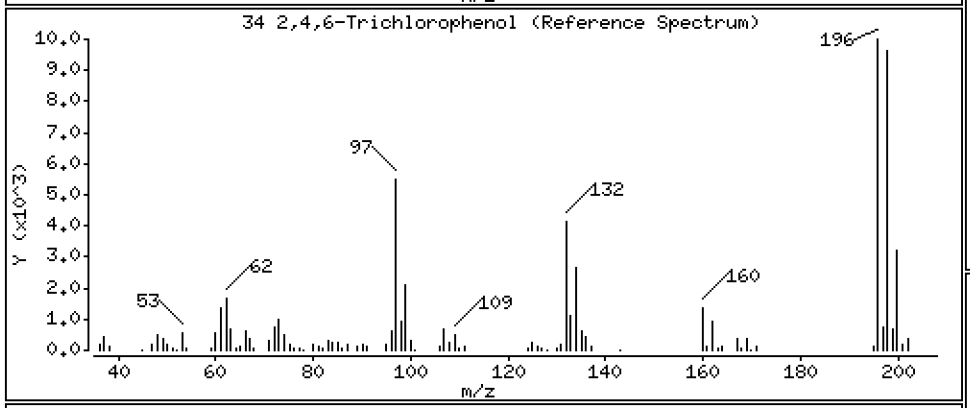
Concentration: 4.770 ug/mL

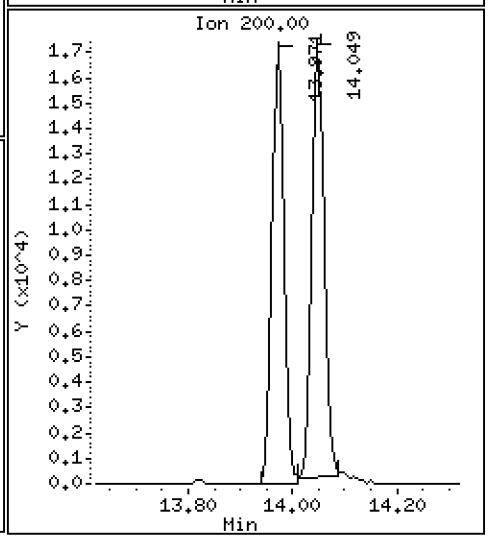


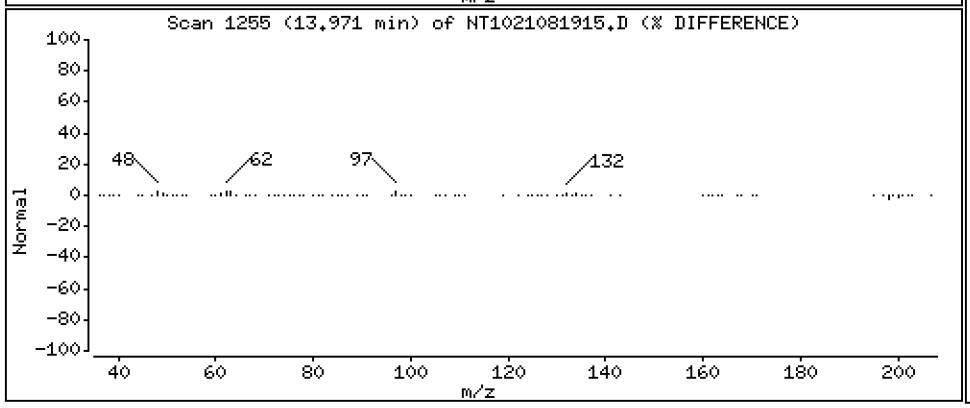












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

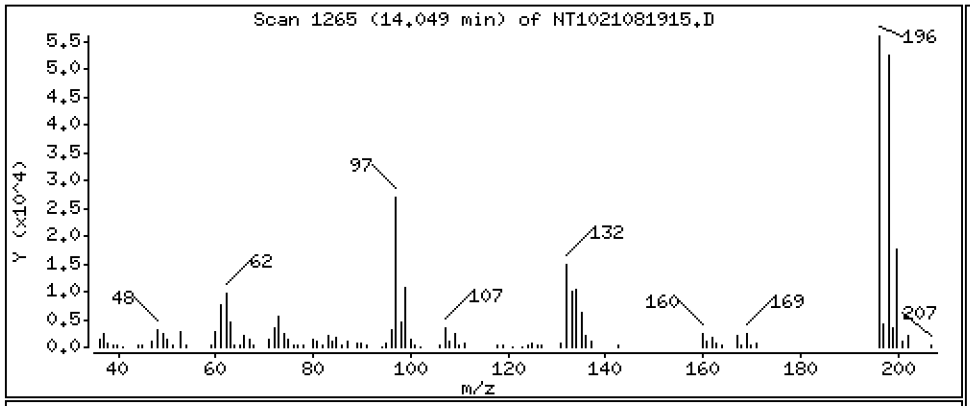
Operator: VTS

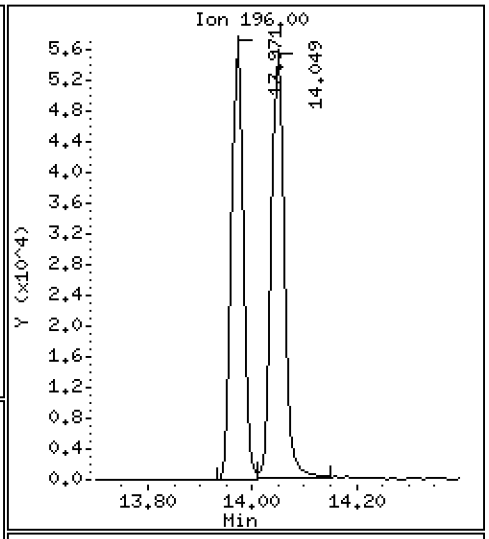
Column phase: ZB-5msi

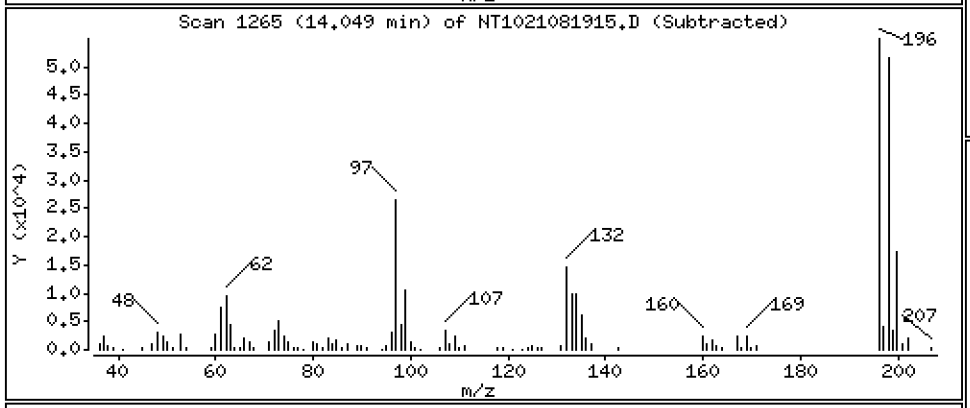
Column diameter: 0.25

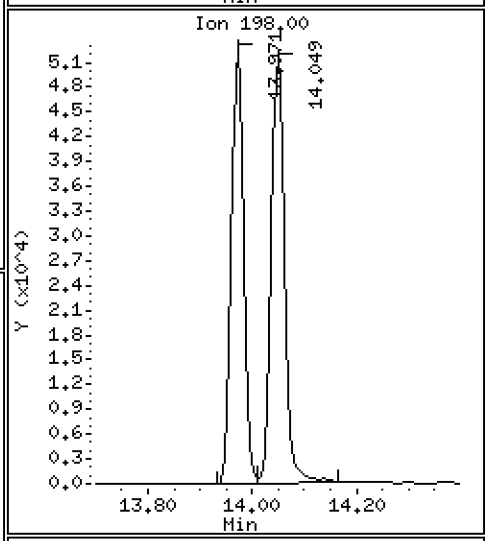
35 2,4,5-Trichlorophenol

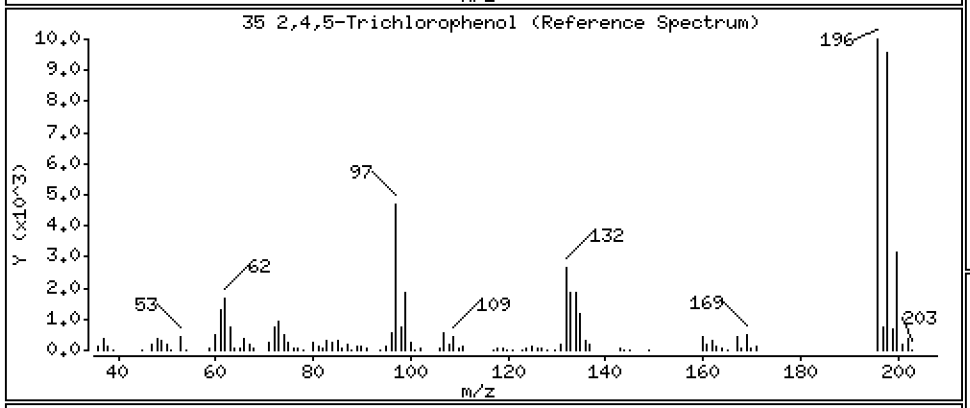
Concentration: 4.914 ug/mL

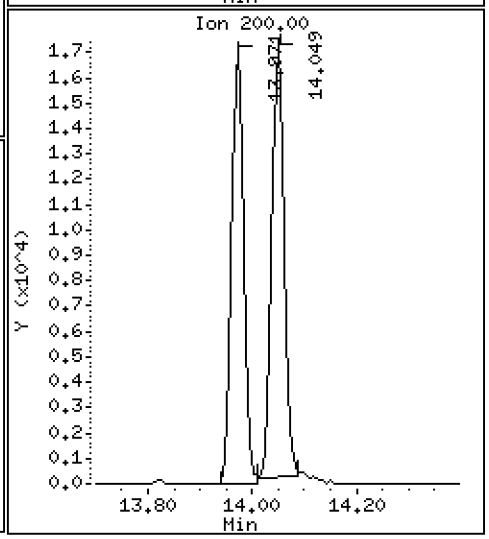


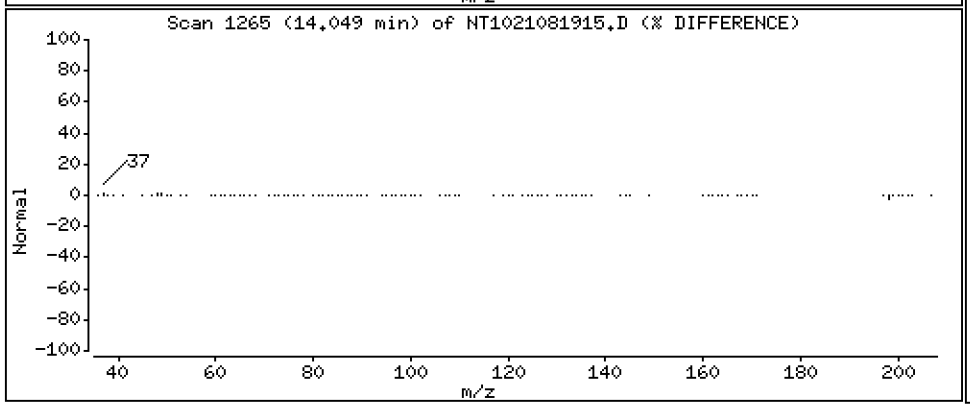












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

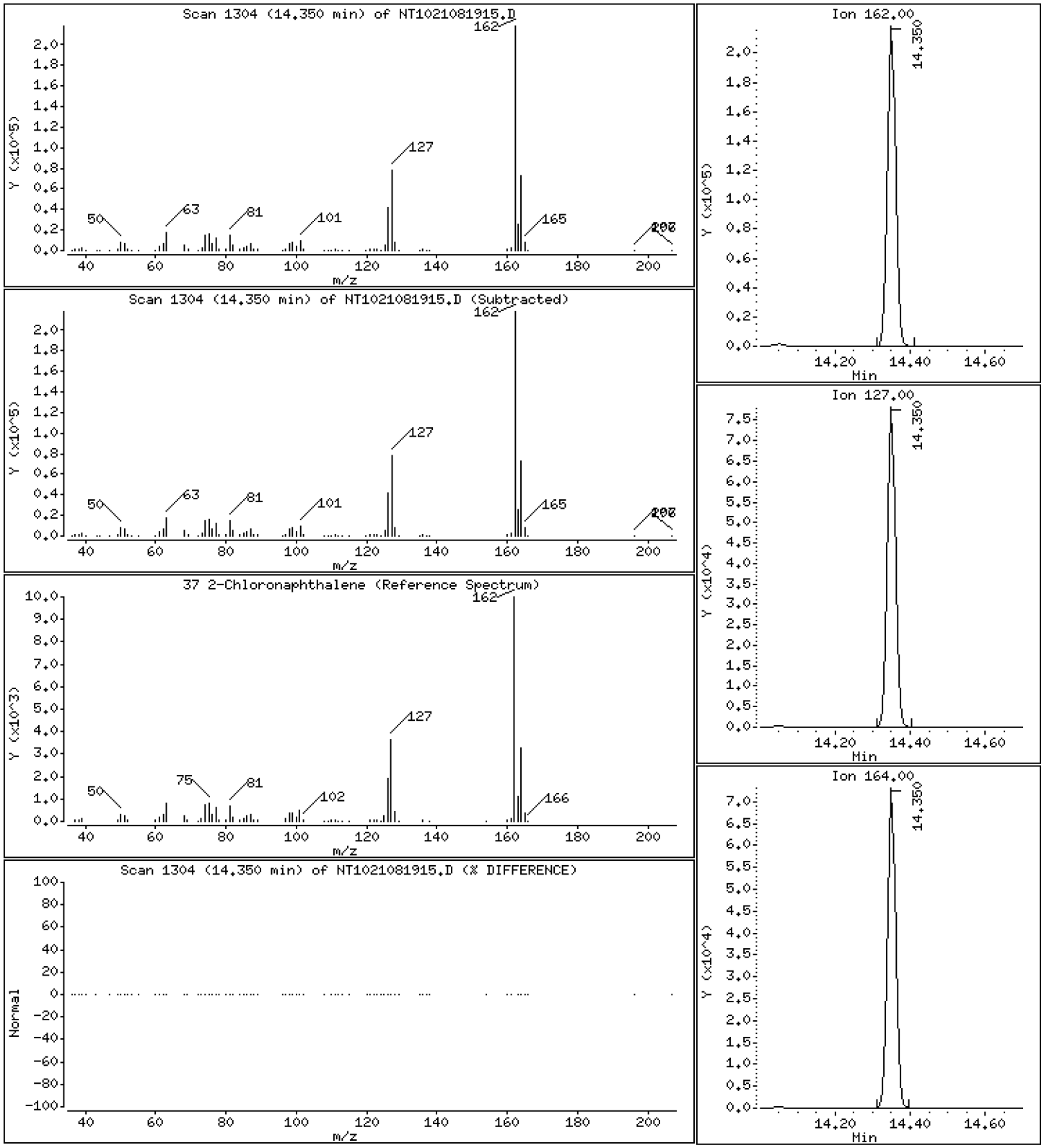
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 5.585 ug/mL



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

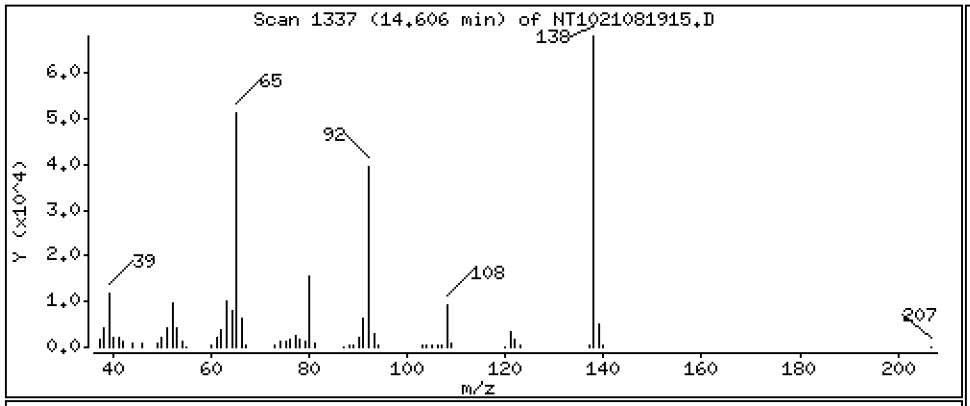
Operator: VTS

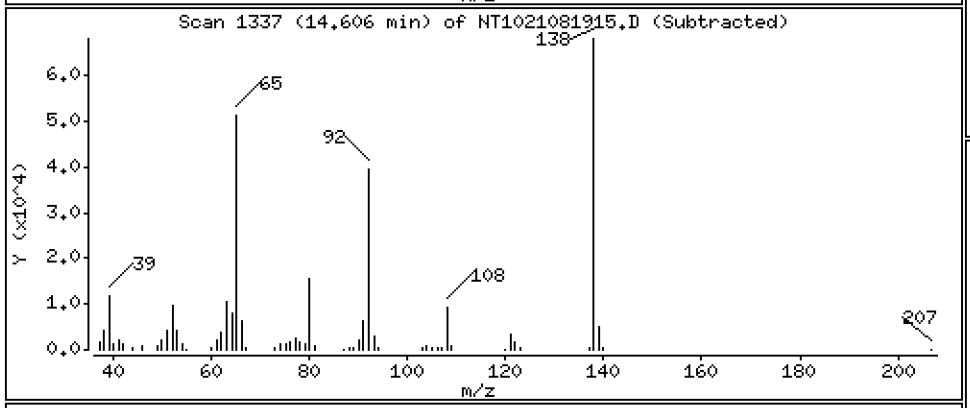
Column phase: ZB-5msi

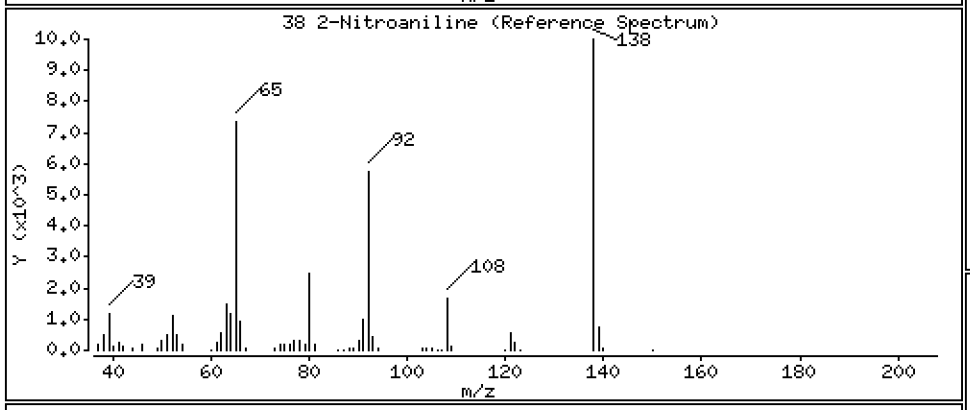
Column diameter: 0.25

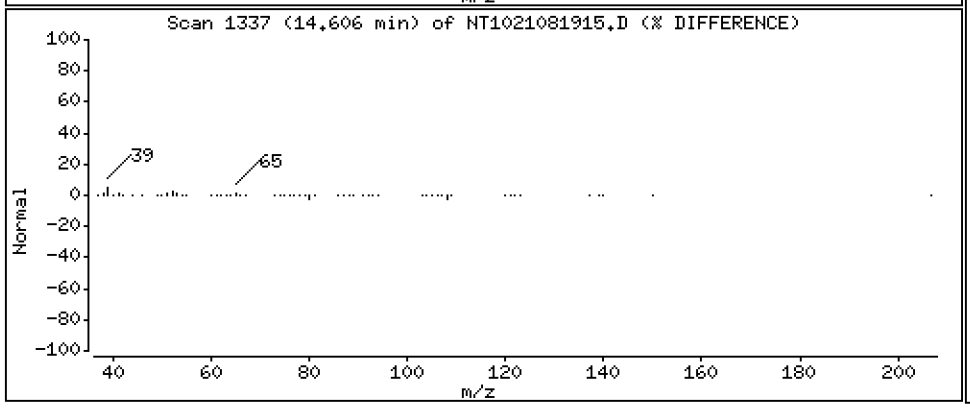
38 2-Nitroaniline

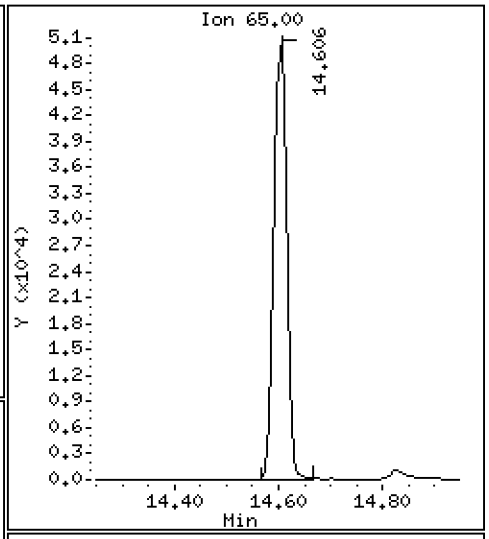
Concentration: 4.972 ug/mL

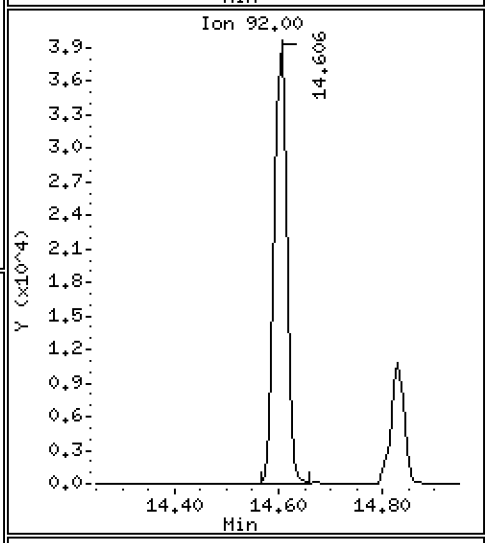


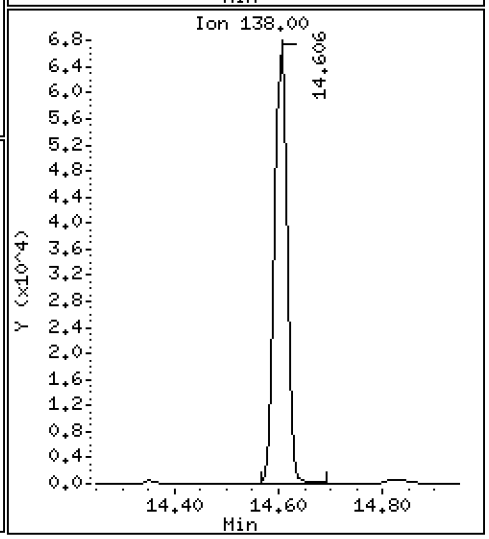












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

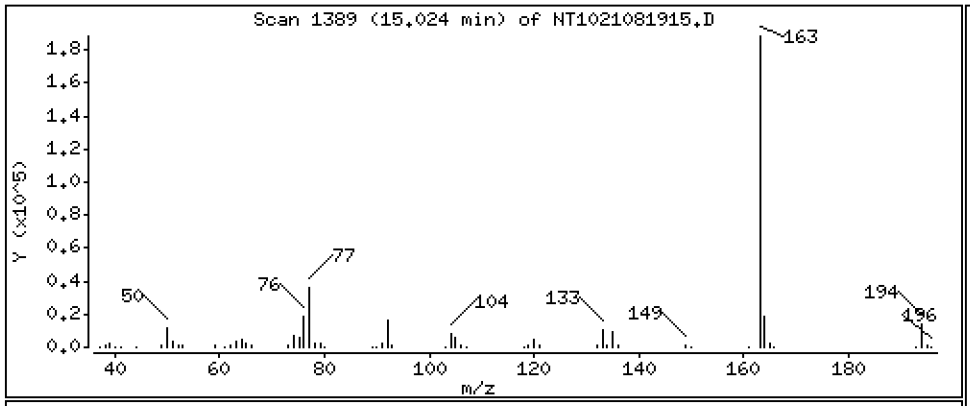
Operator: VTS

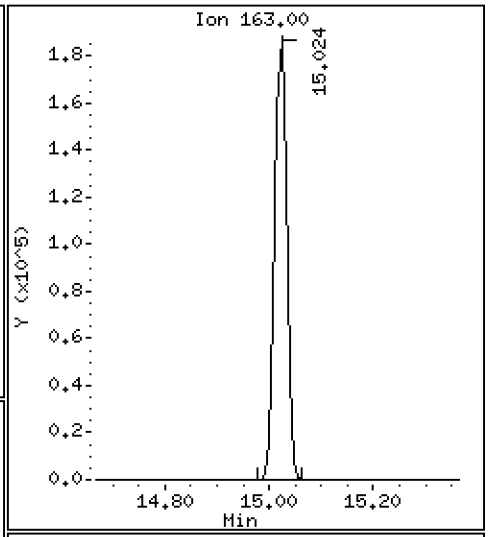
Column phase: ZB-5msi

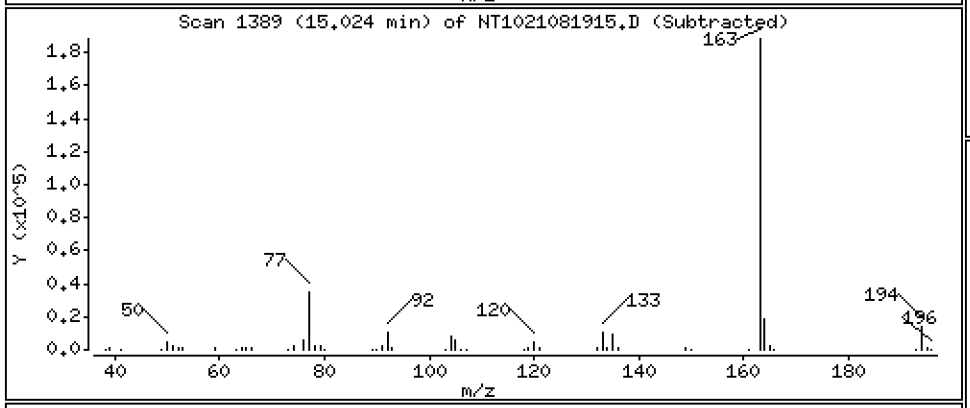
Column diameter: 0.25

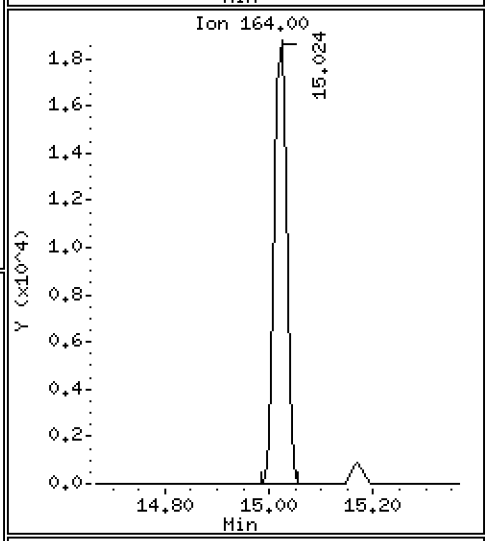
39 Dimethylphthalate

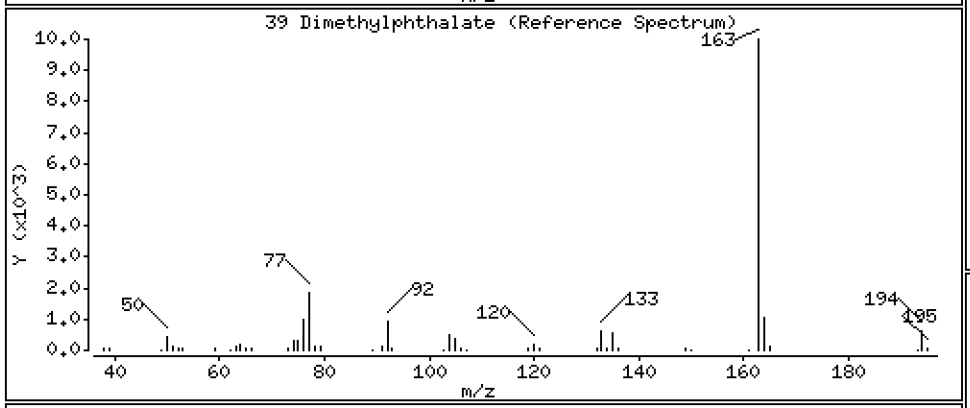
Concentration: 4.979 ug/mL

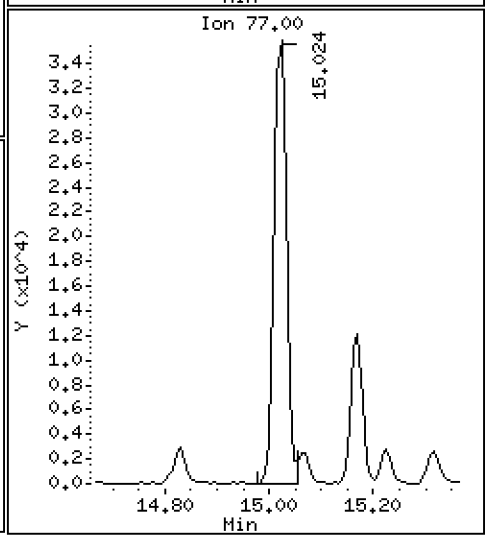


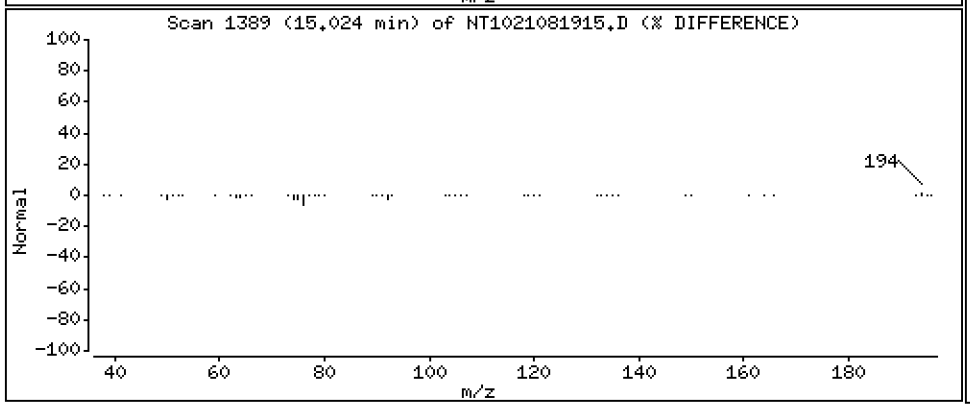












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

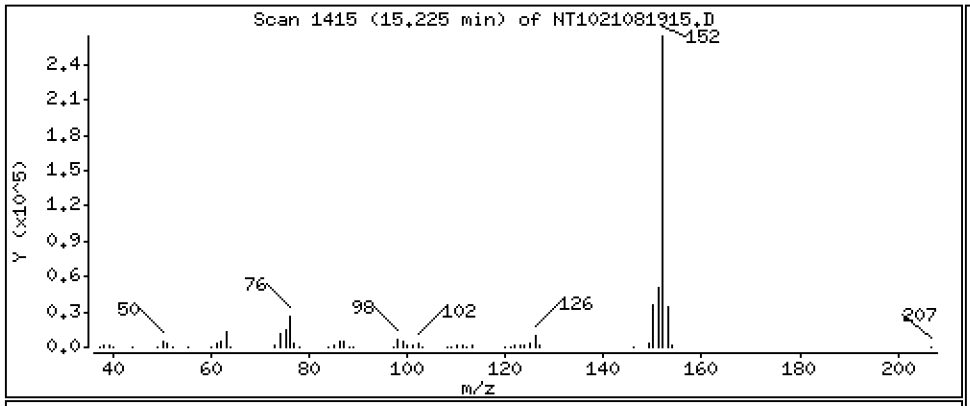
Operator: VTS

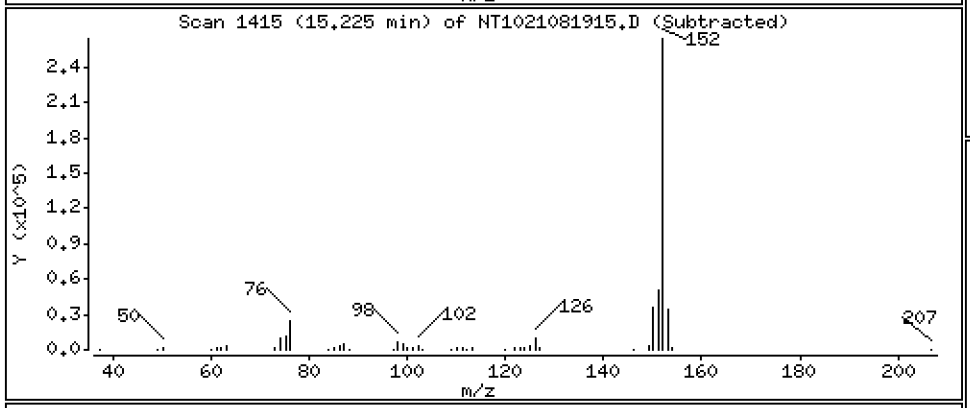
Column phase: ZB-5msi

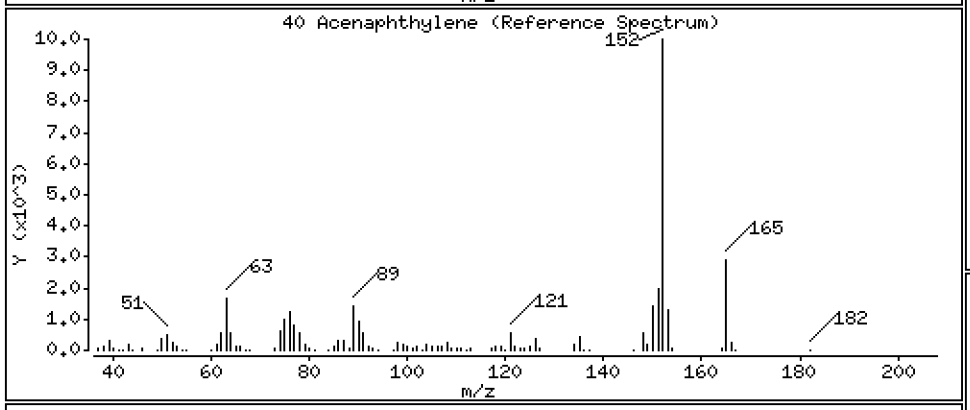
Column diameter: 0.25

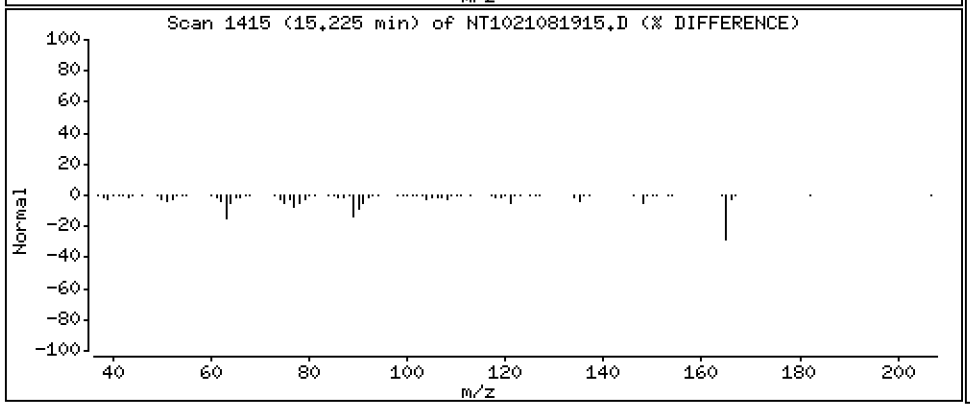
40 Acenaphthylene

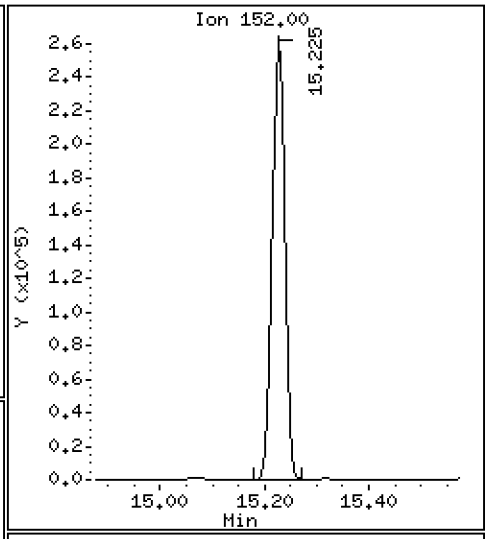
Concentration: 4.796 ug/mL

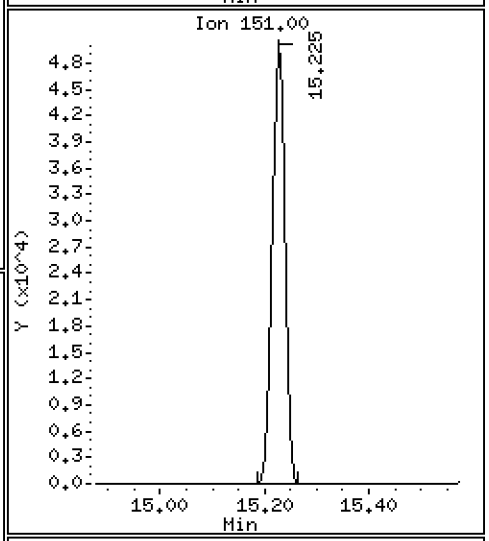


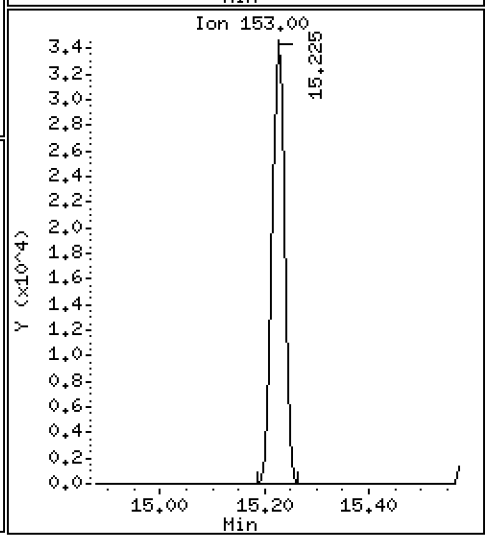












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

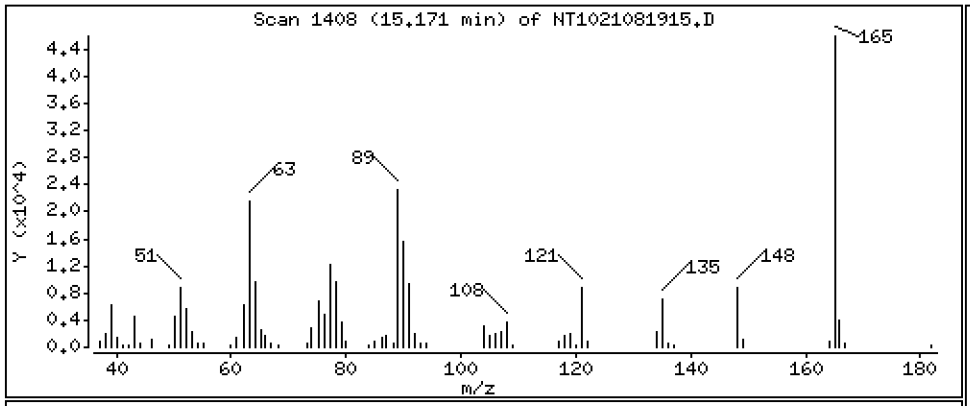
Operator: VTS

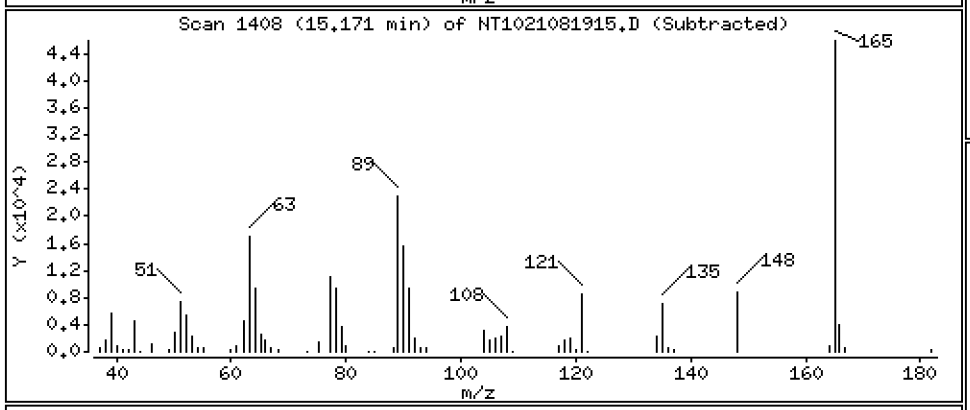
Column phase: ZB-5msi

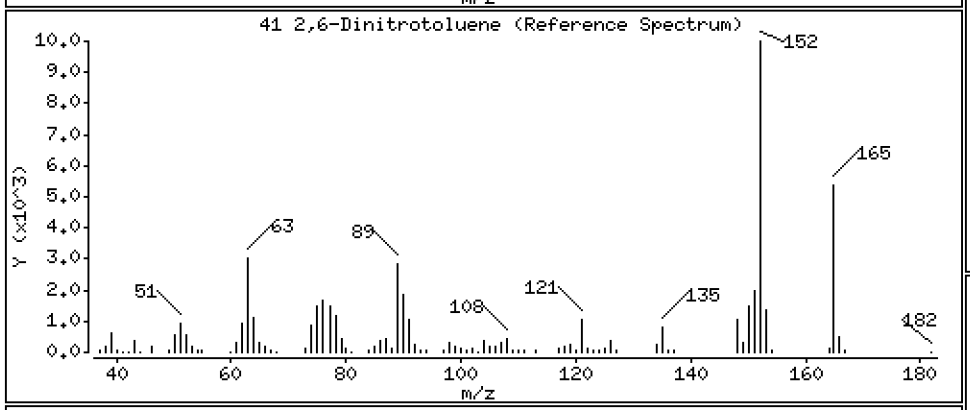
Column diameter: 0.25

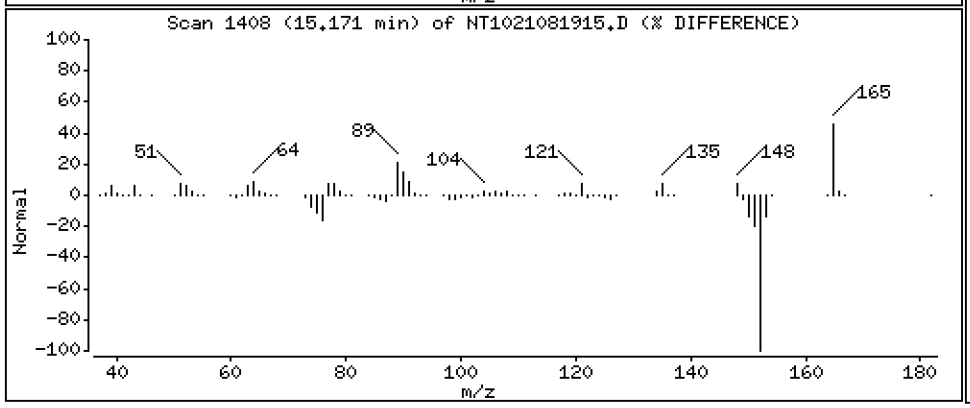
41 2,6-Dinitrotoluene

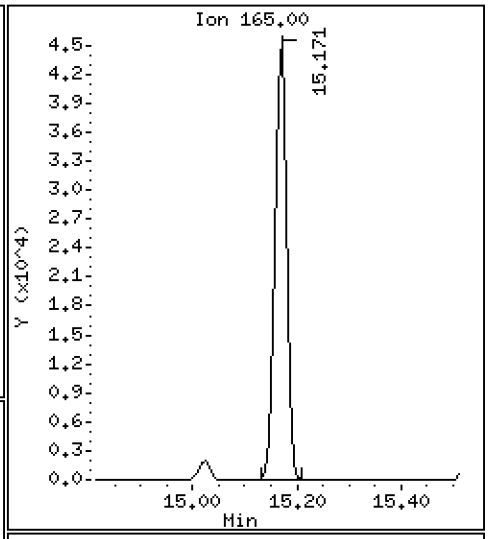
Concentration: 5.369 ug/mL

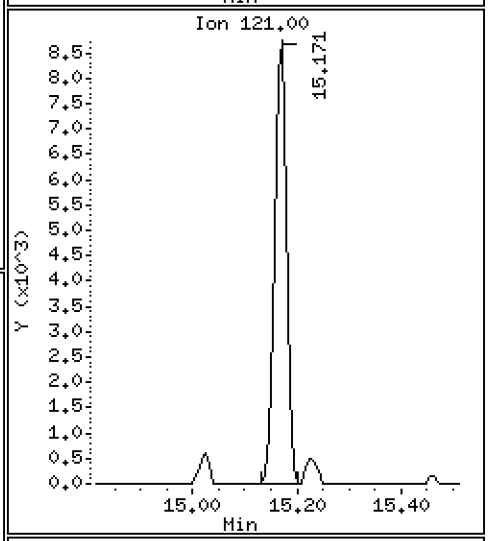


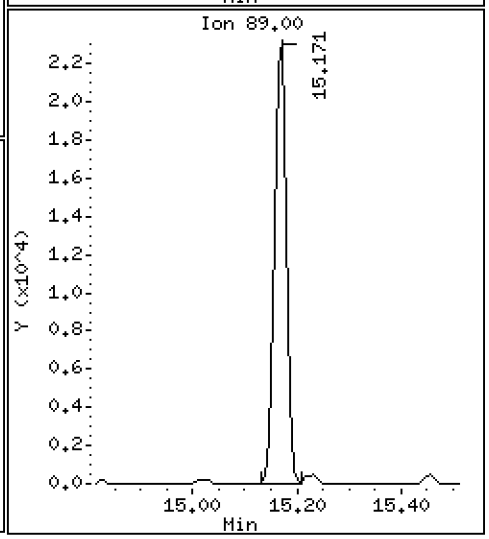












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

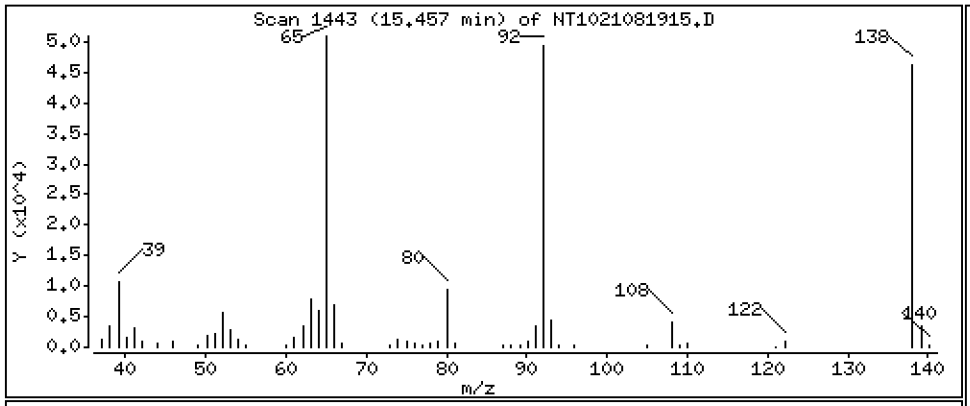
Operator: VTS

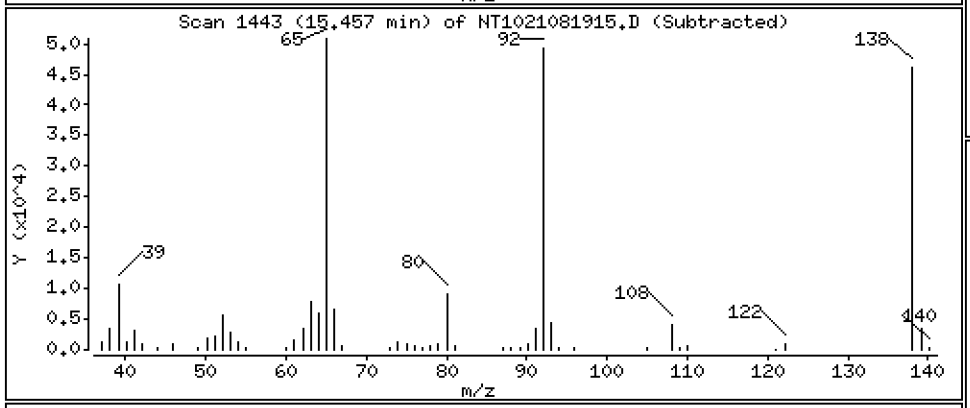
Column phase: ZB-5msi

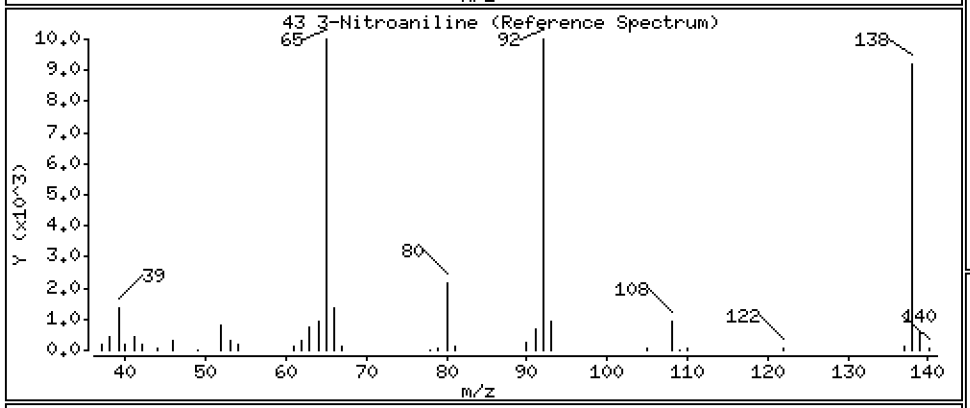
Column diameter: 0.25

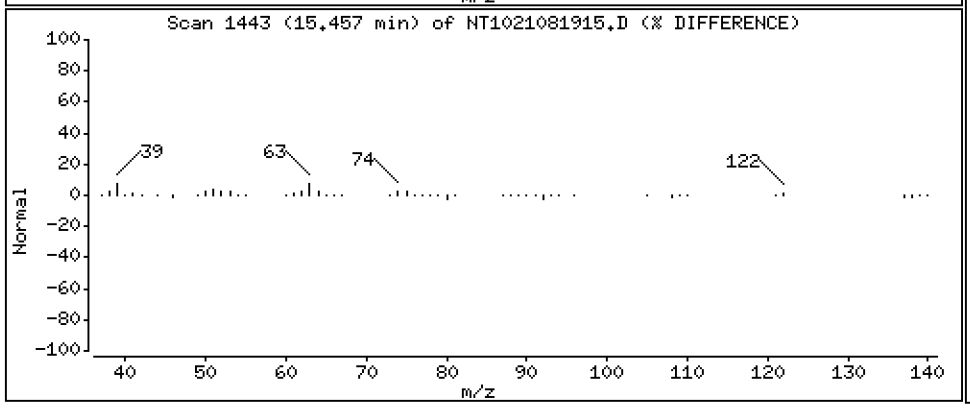
43 3-Nitroaniline

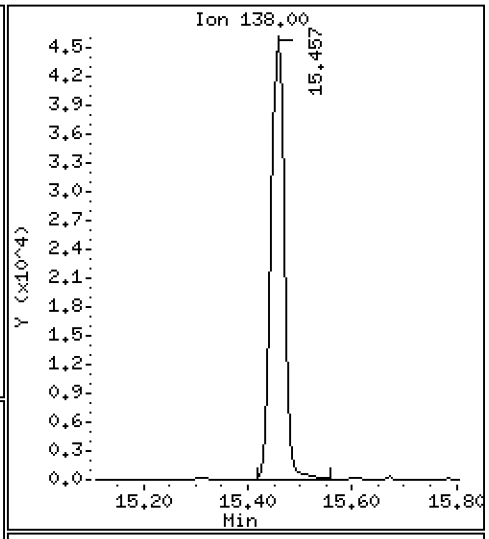
Concentration: 4.562 ug/mL

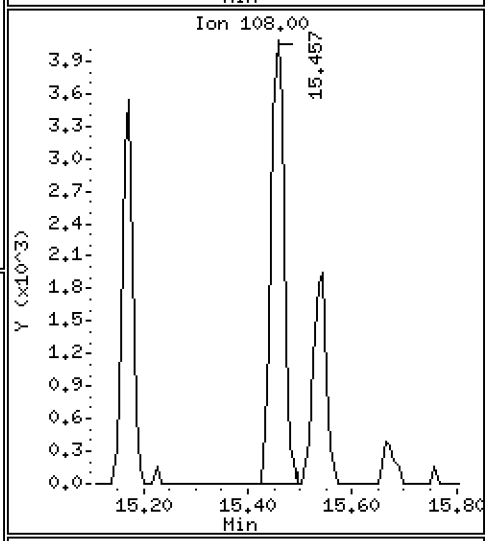


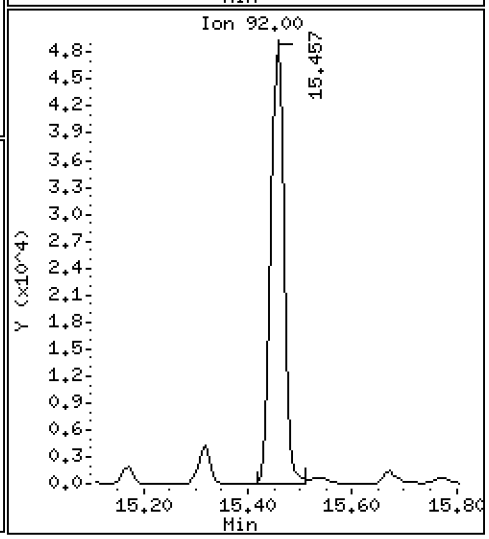












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

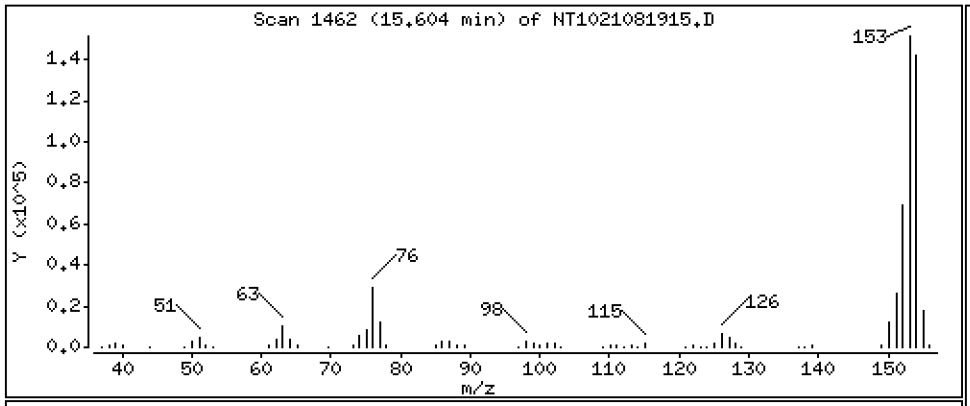
Operator: VTS

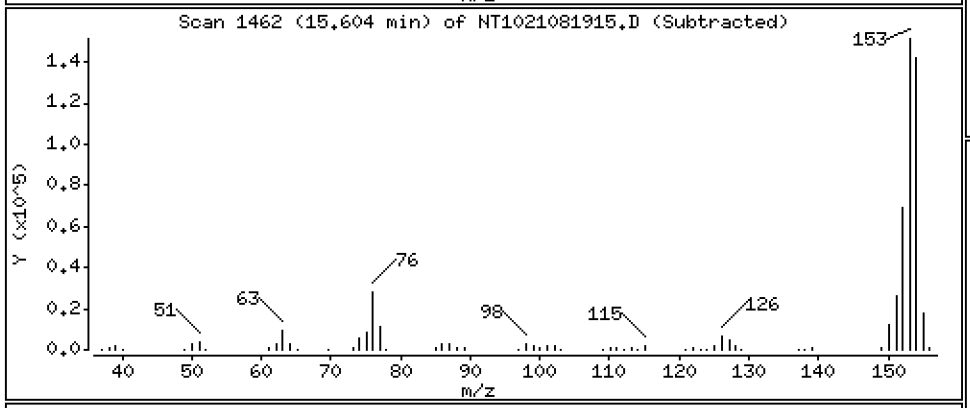
Column phase: ZB-5msi

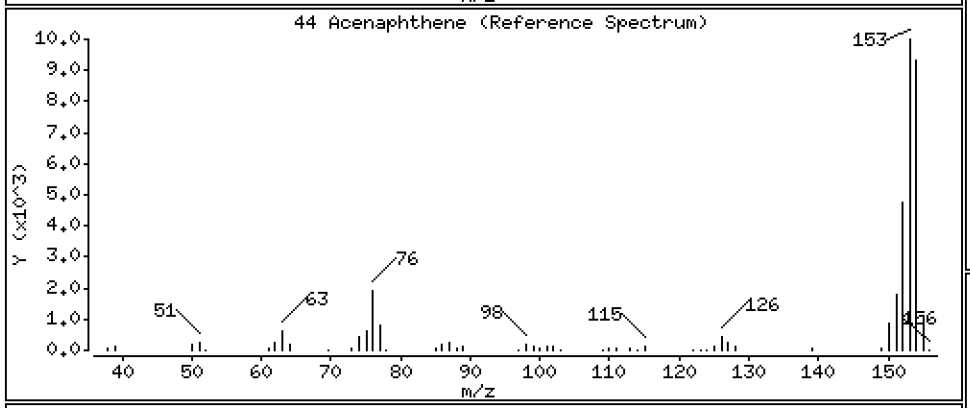
Column diameter: 0.25

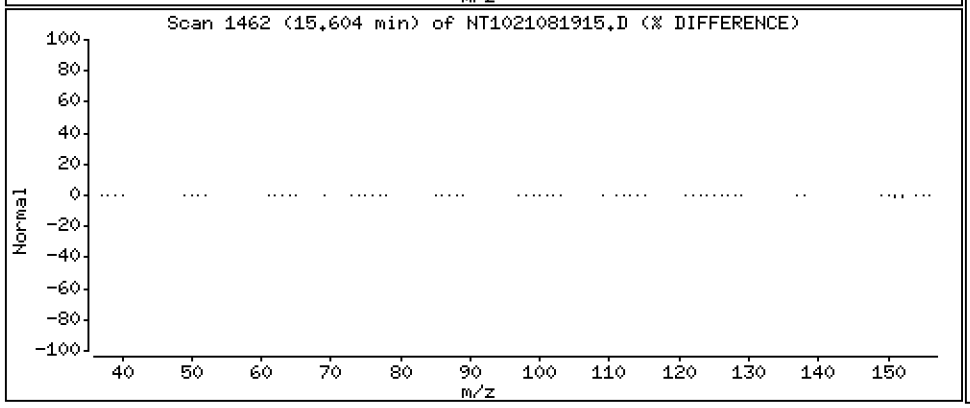
44 Acenaphthene

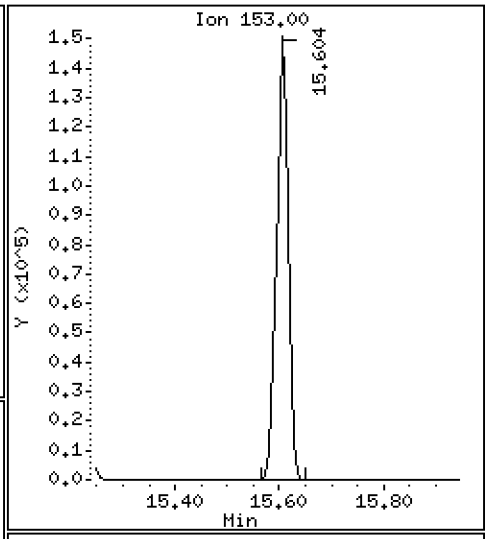
Concentration: 4.975 ug/mL

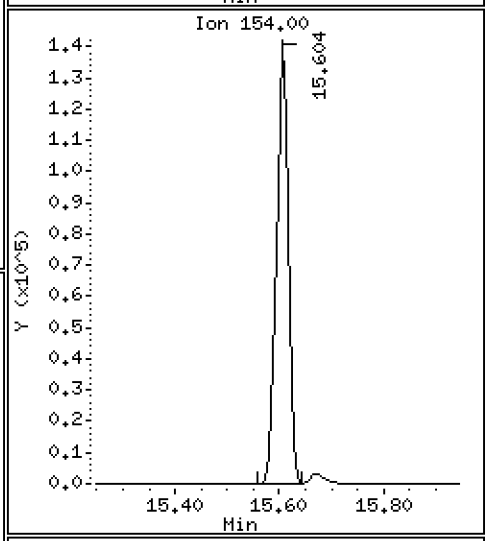


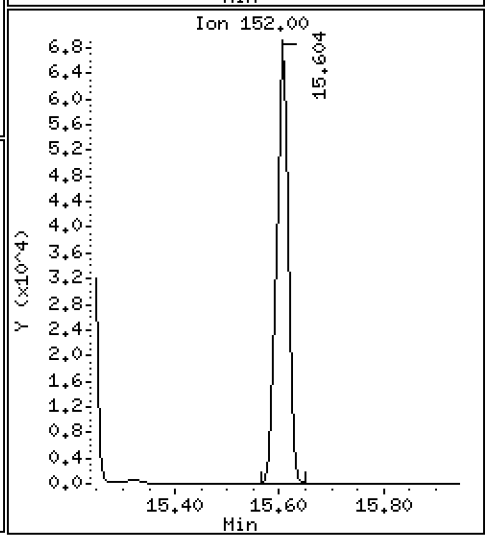












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

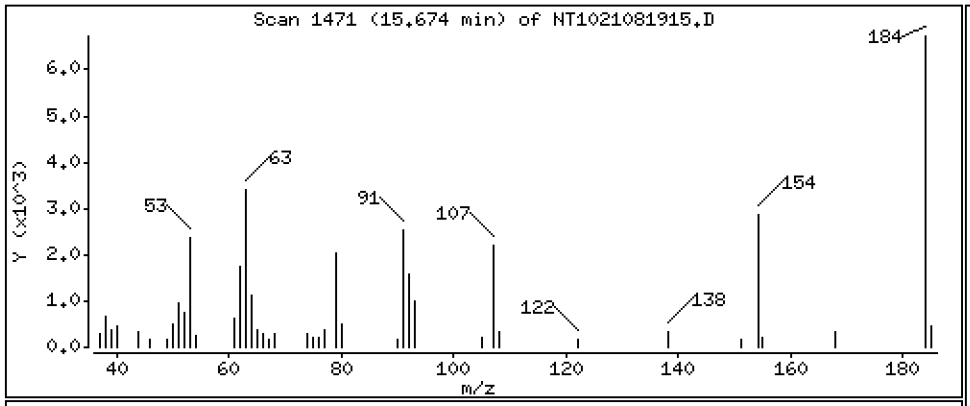
Operator: VTS

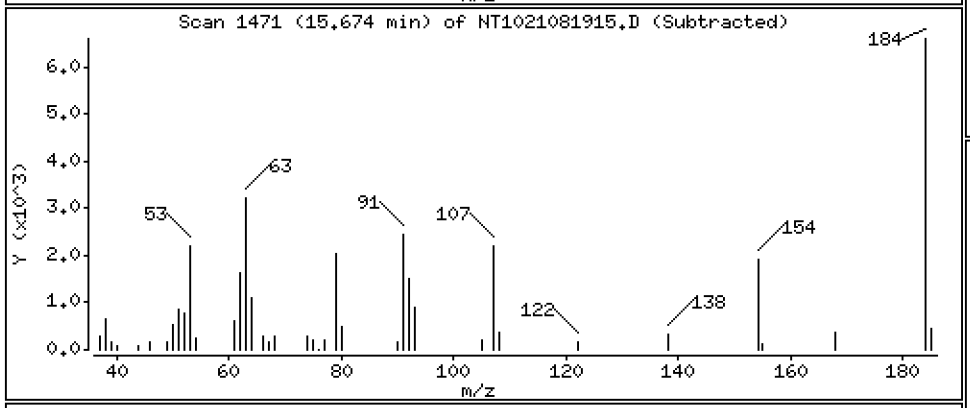
Column phase: ZB-5msi

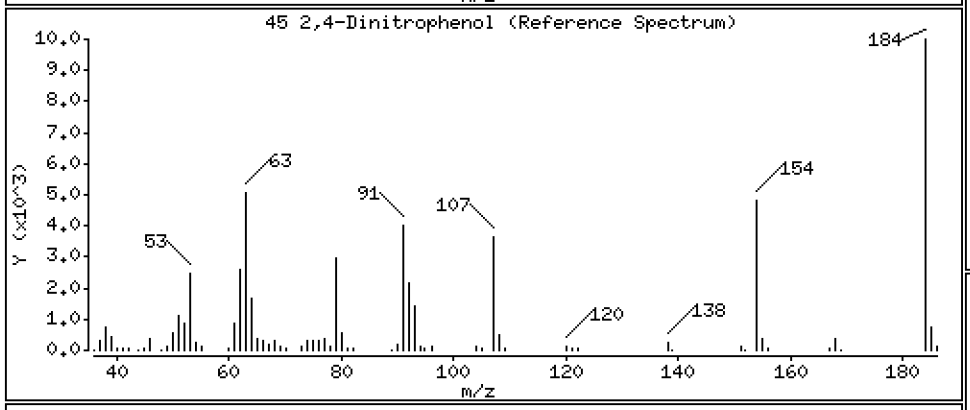
Column diameter: 0.25

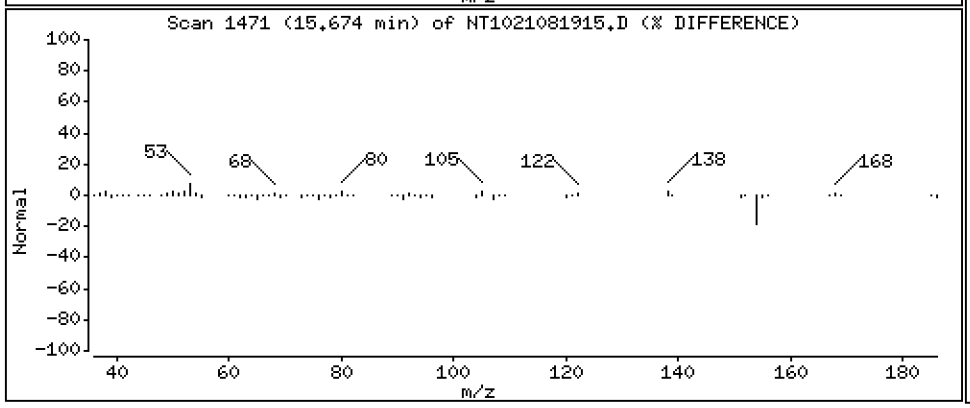
45 2,4-Dinitrophenol

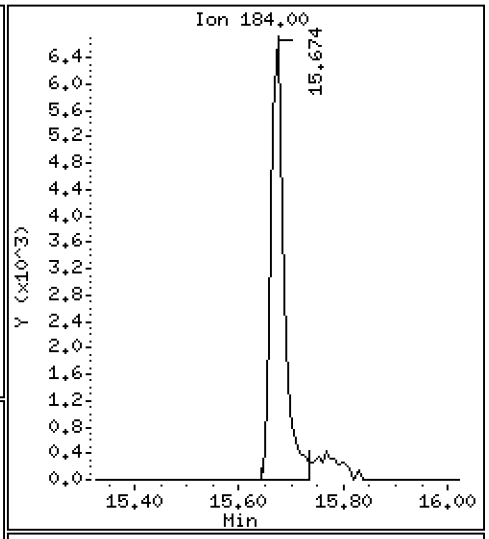
Concentration: 1.665 ug/mL

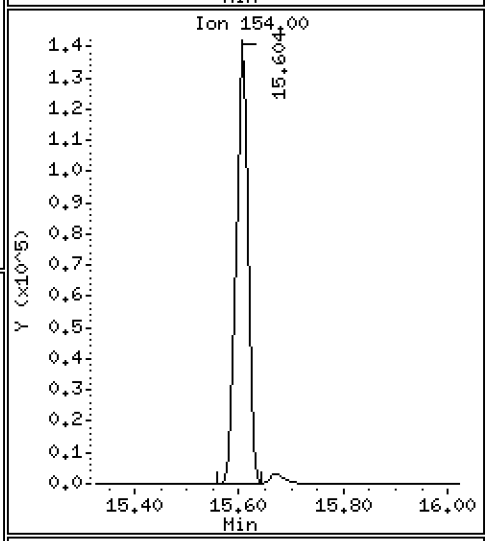


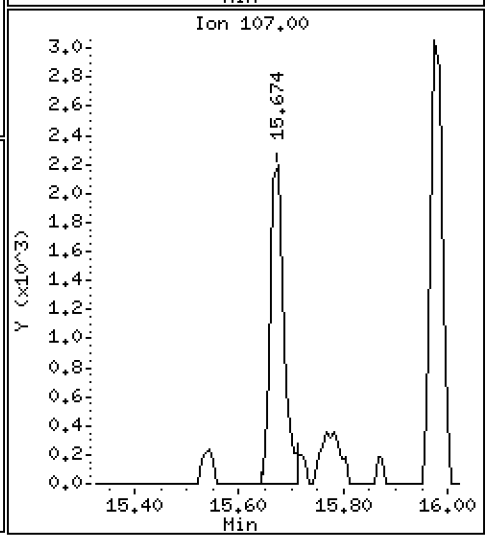












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

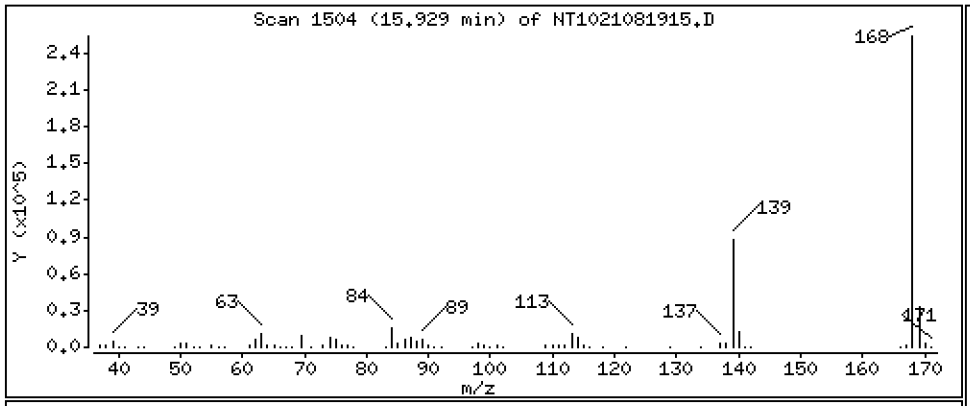
Operator: VTS

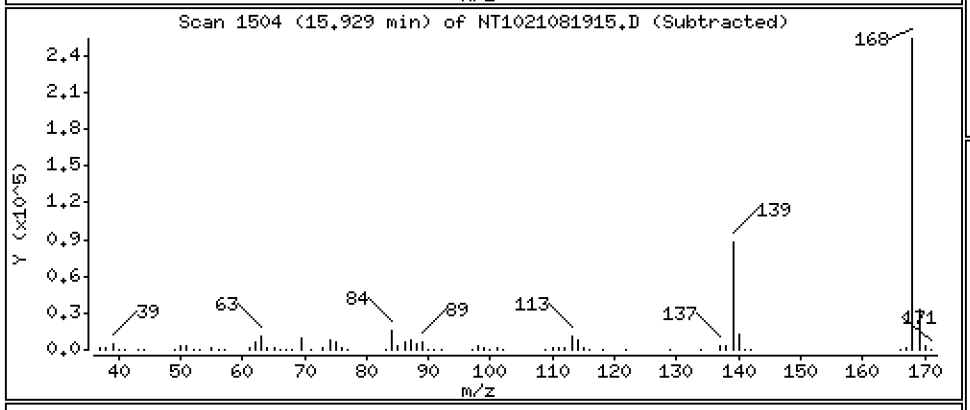
Column phase: ZB-5msi

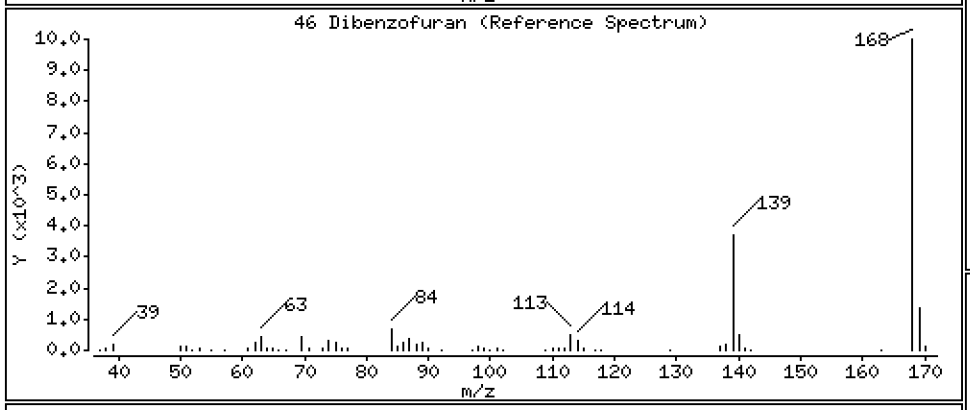
Column diameter: 0.25

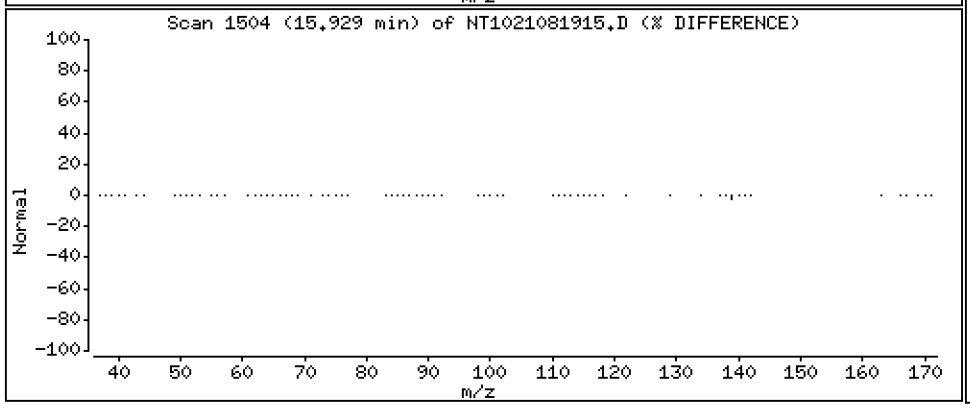
46 Dibenzofuran

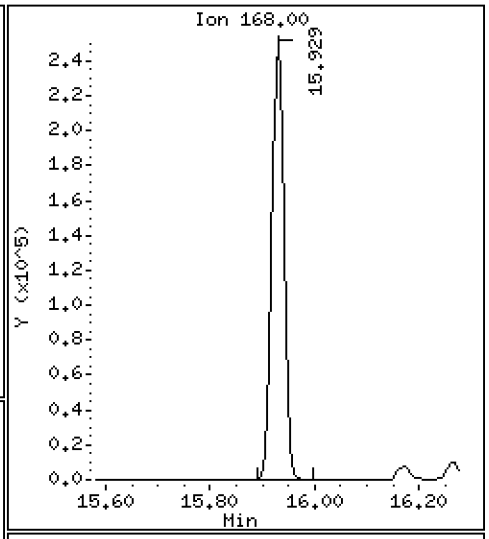
Concentration: 4.691 ug/mL

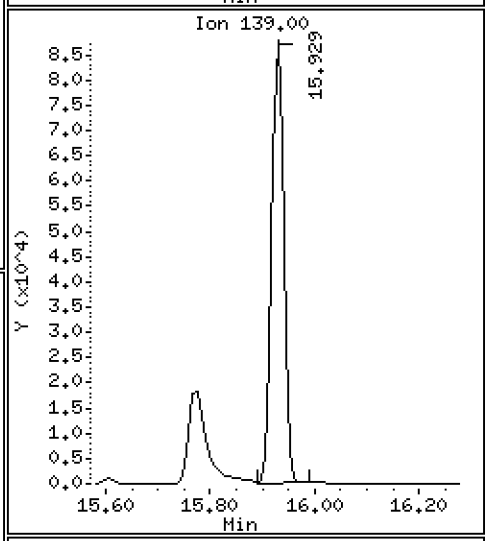


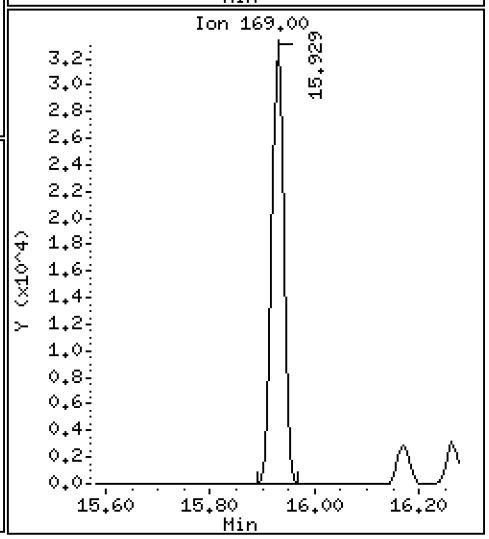












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

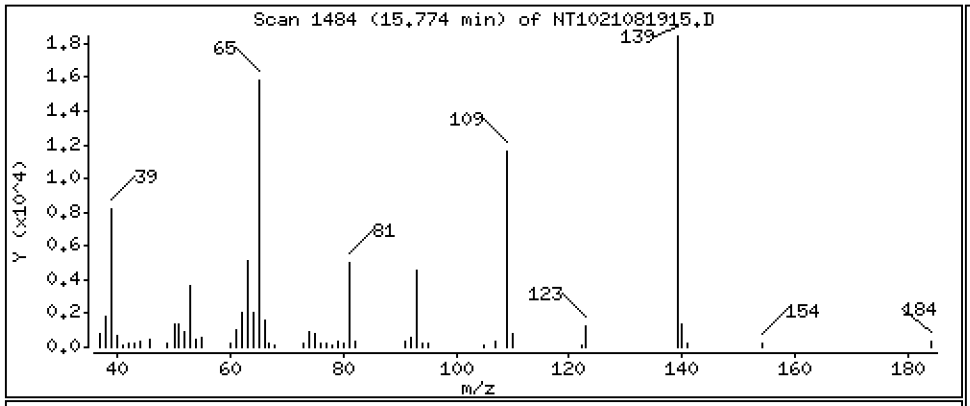
Operator: VTS

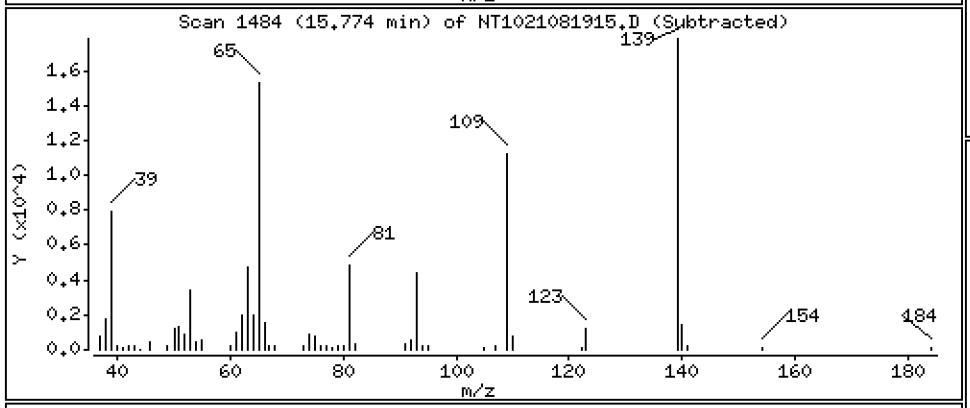
Column phase: ZB-5msi

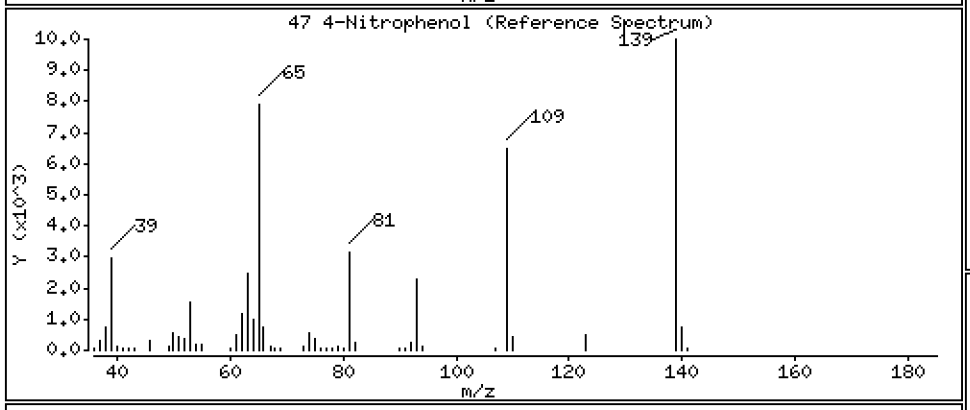
Column diameter: 0.25

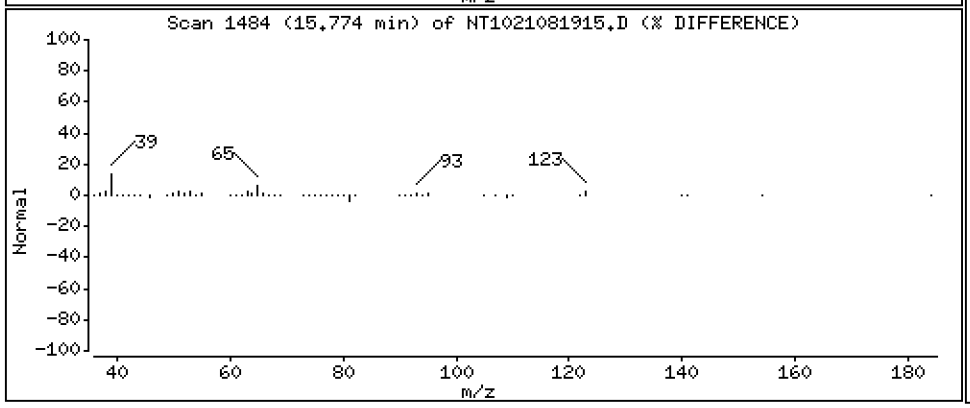
47 4-Nitrophenol

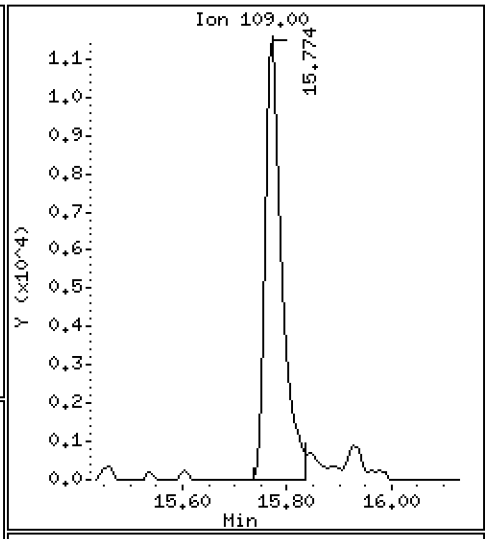
Concentration: 4.018 ug/mL

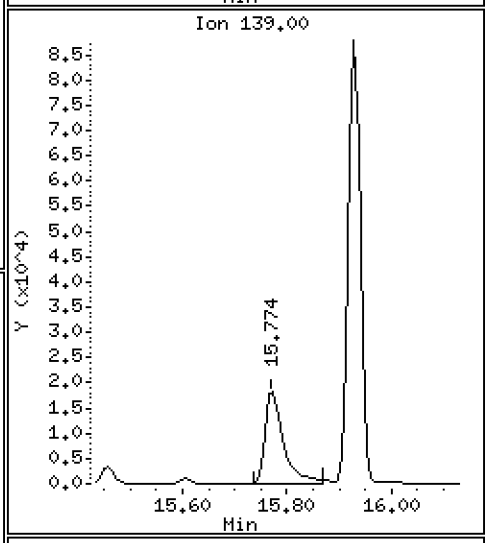


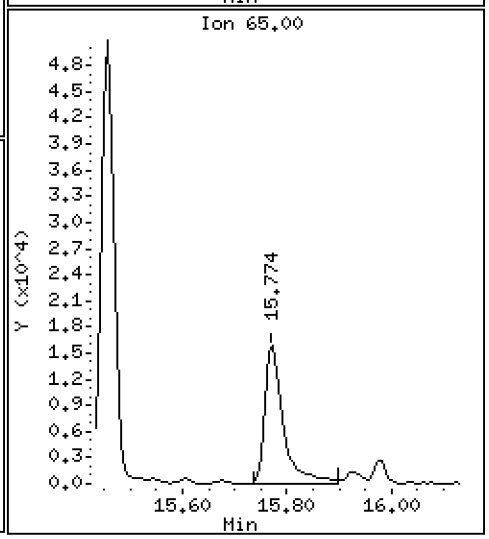












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

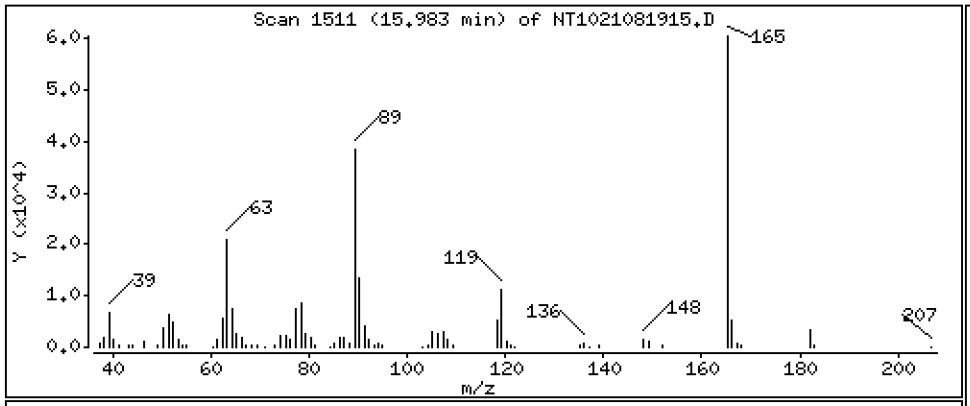
Operator: VTS

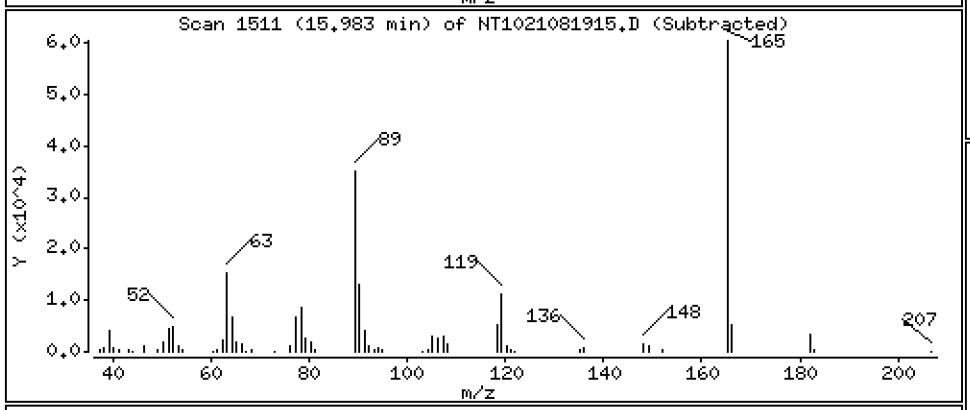
Column phase: ZB-5msi

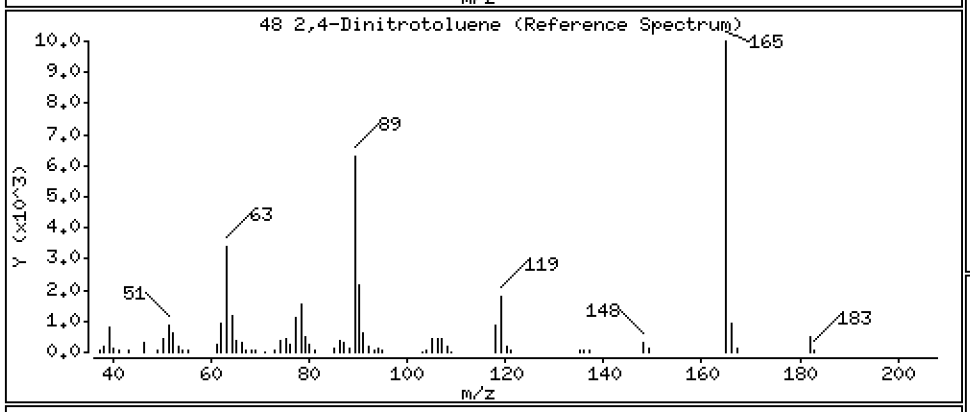
Column diameter: 0.25

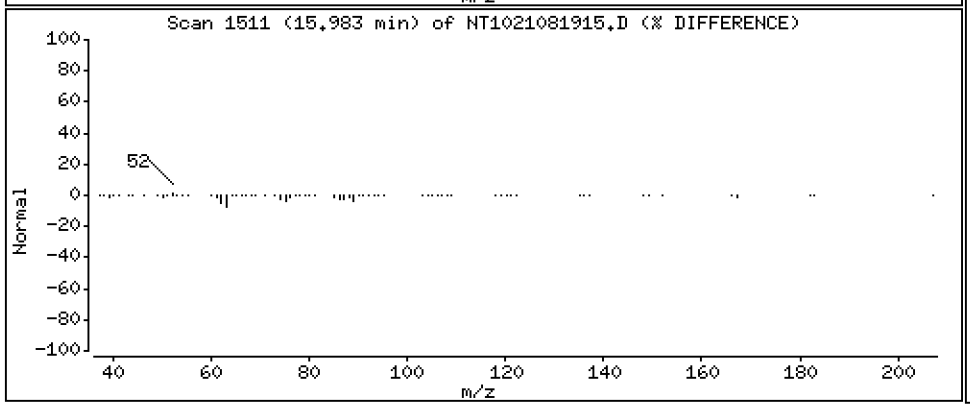
48 2,4-Dinitrotoluene

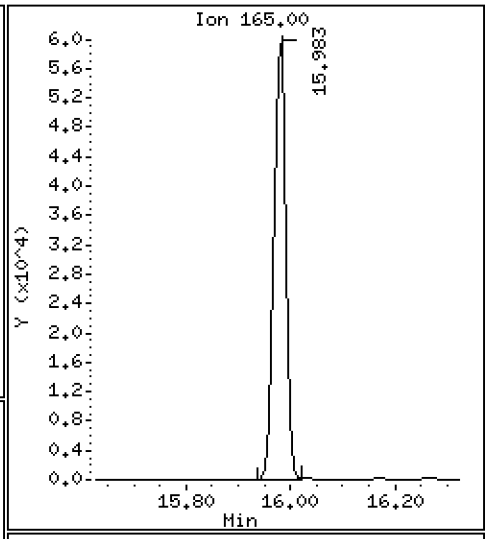
Concentration: 5.106 ug/mL

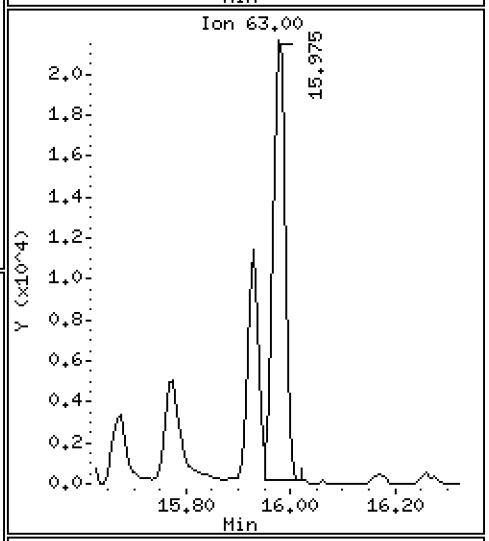


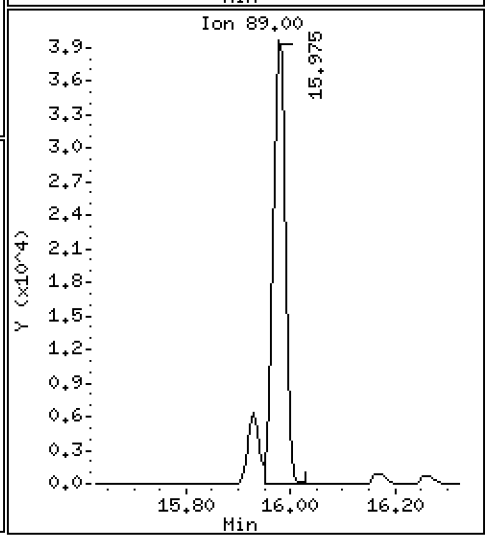












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

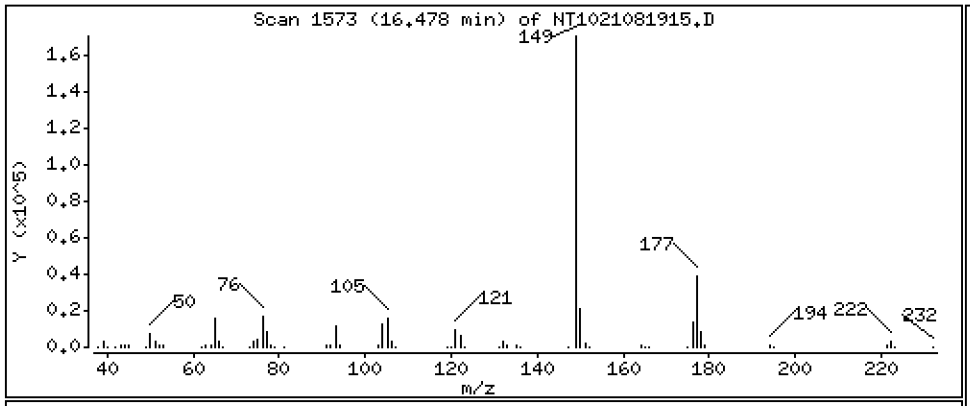
Operator: VTS

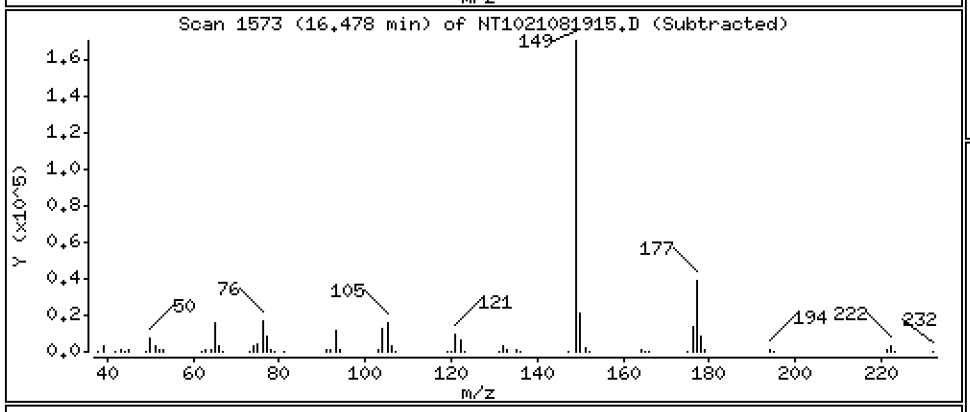
Column phase: ZB-5msi

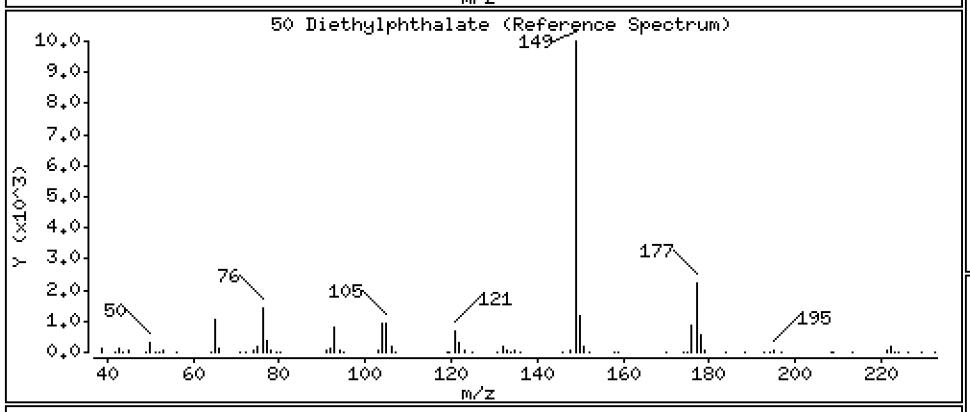
Column diameter: 0.25

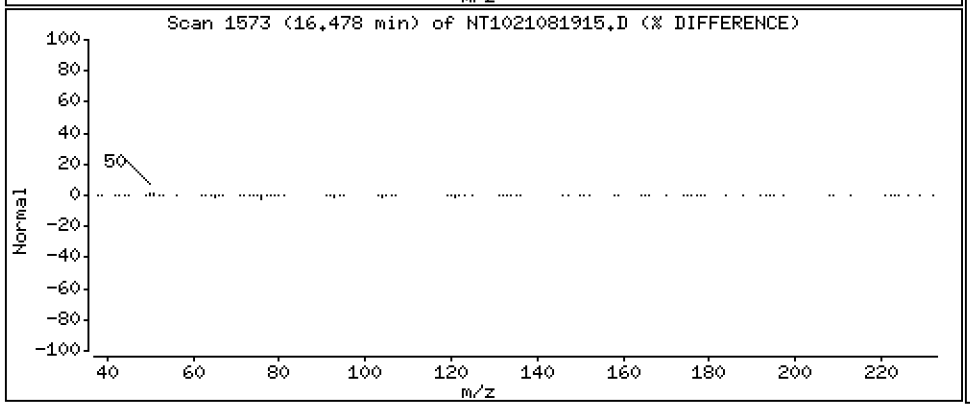
50 Diethylphthalate

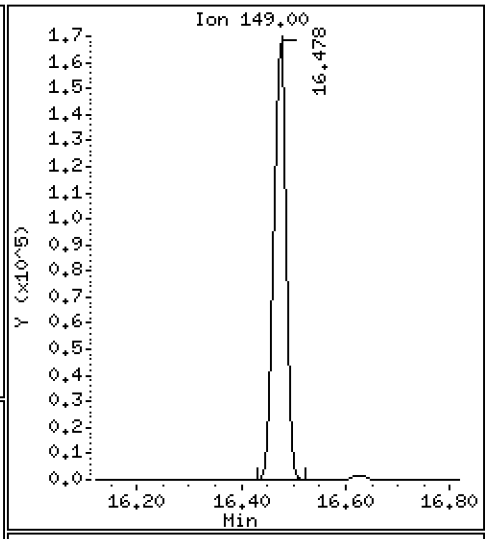
Concentration: 5.096 ug/mL

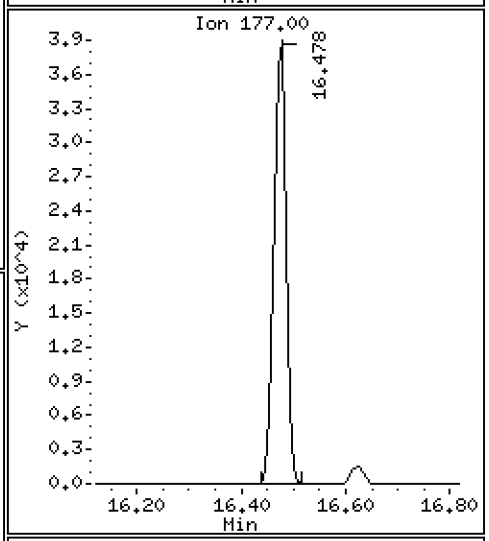


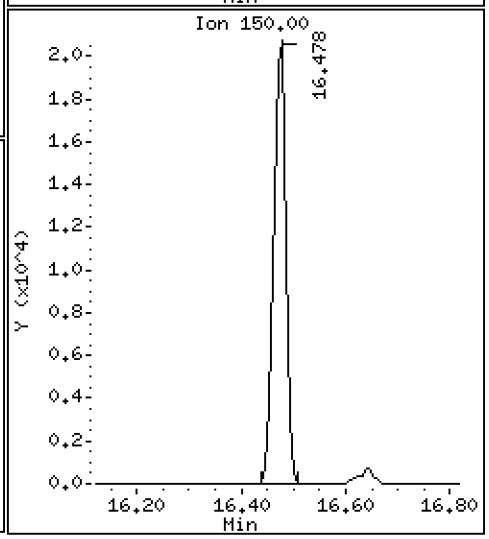












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

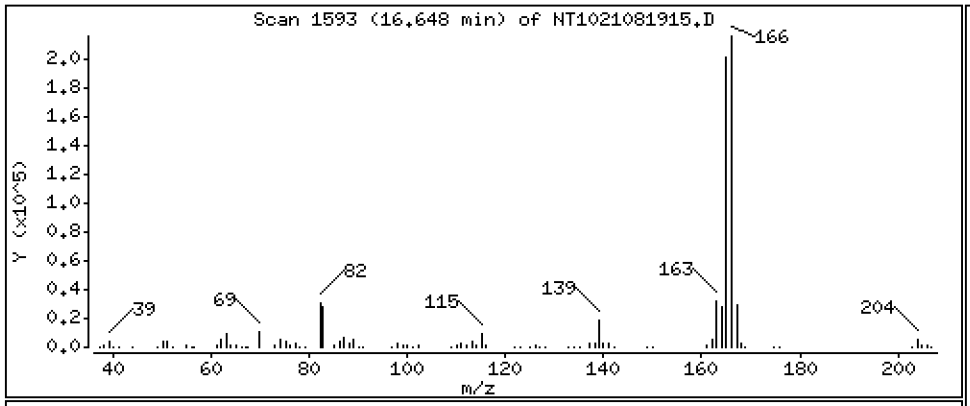
Operator: VTS

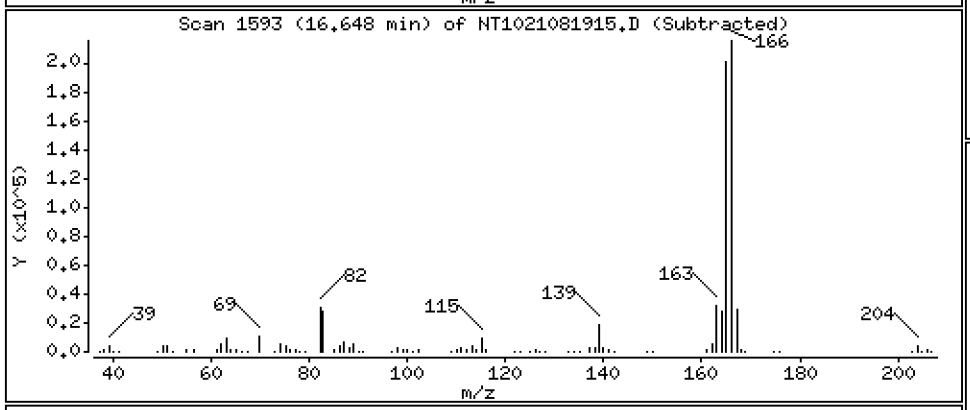
Column phase: ZB-5msi

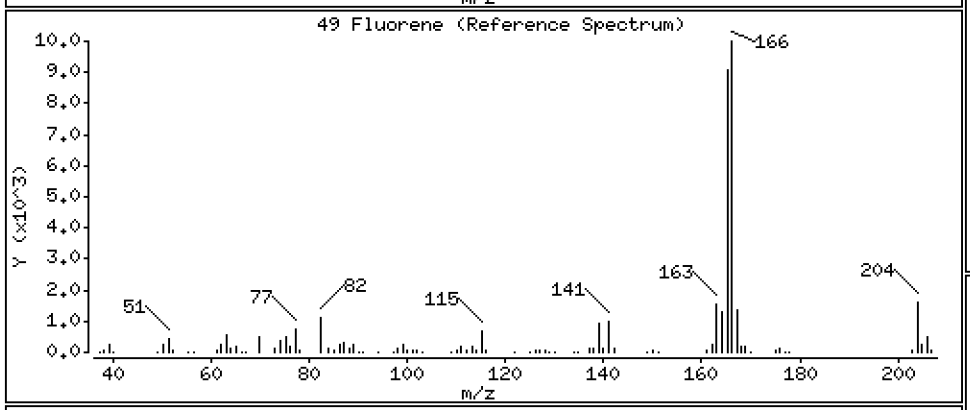
Column diameter: 0.25

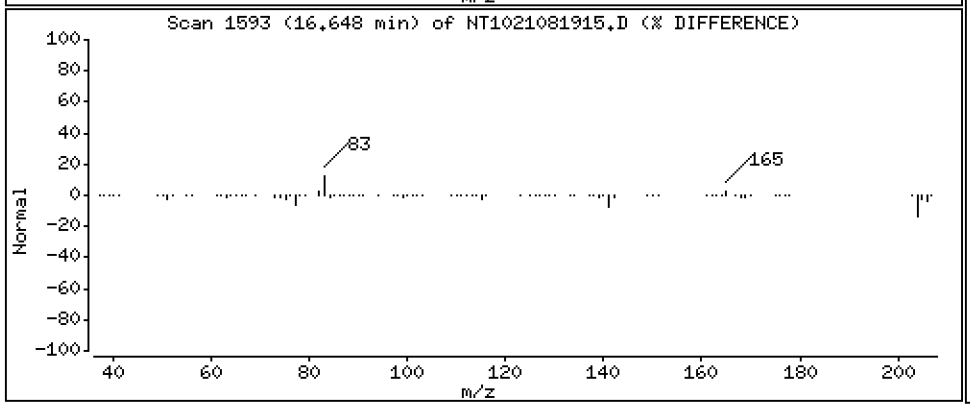
49 Fluorene

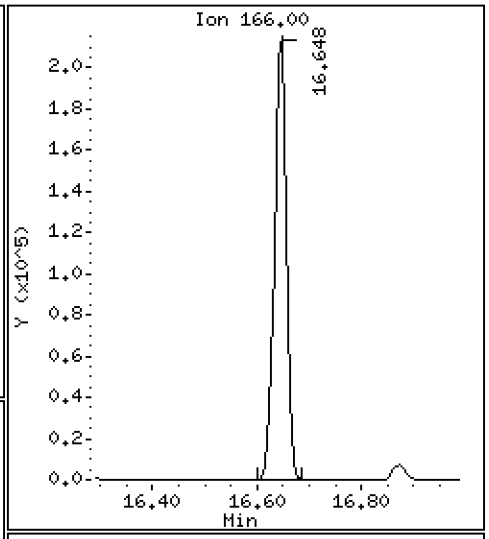
Concentration: 4.723 ug/mL

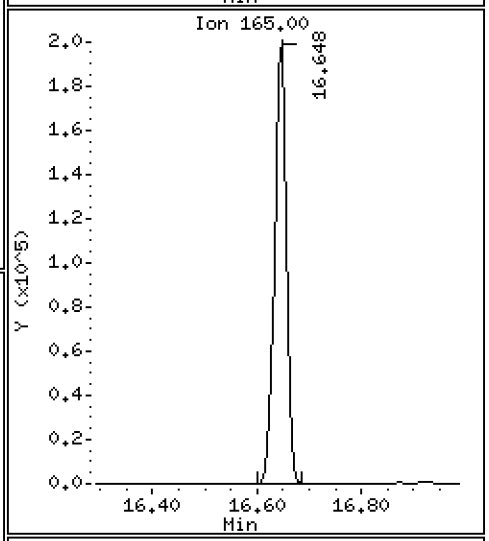


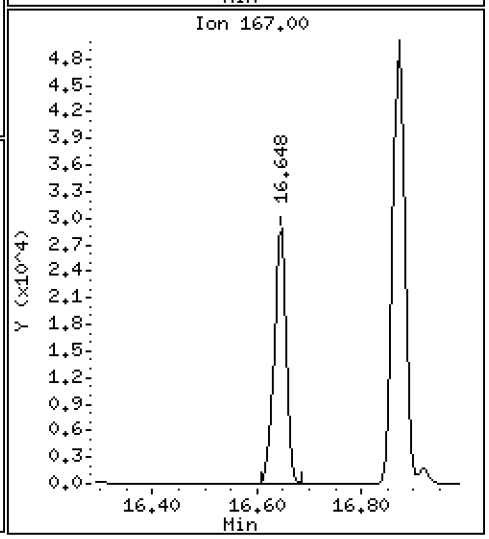












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

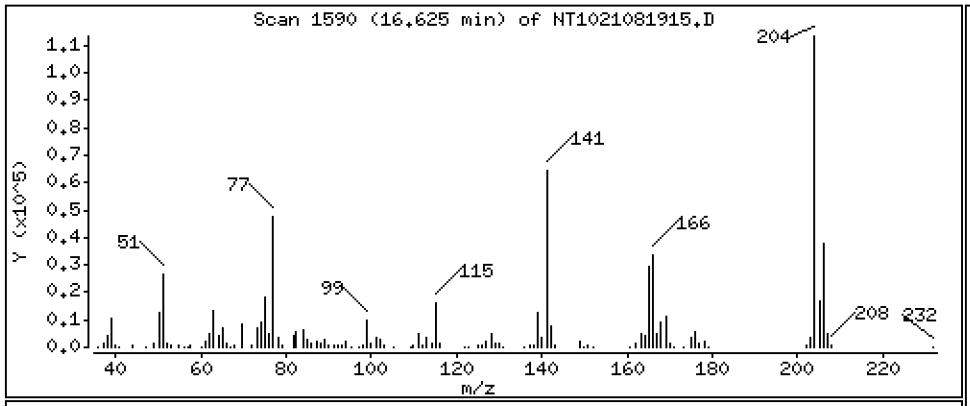
Operator: VTS

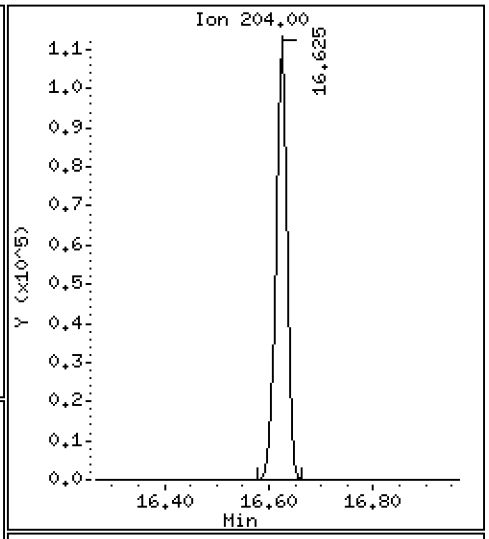
Column phase: ZB-5msi

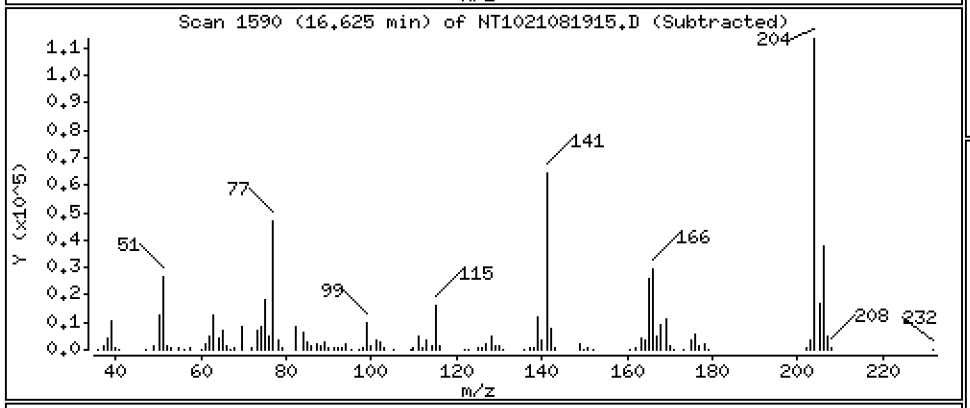
Column diameter: 0.25

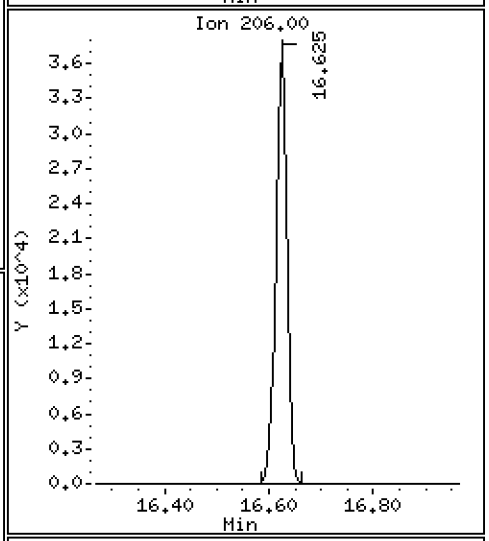
51 4-Chlorophenyl-phenylether

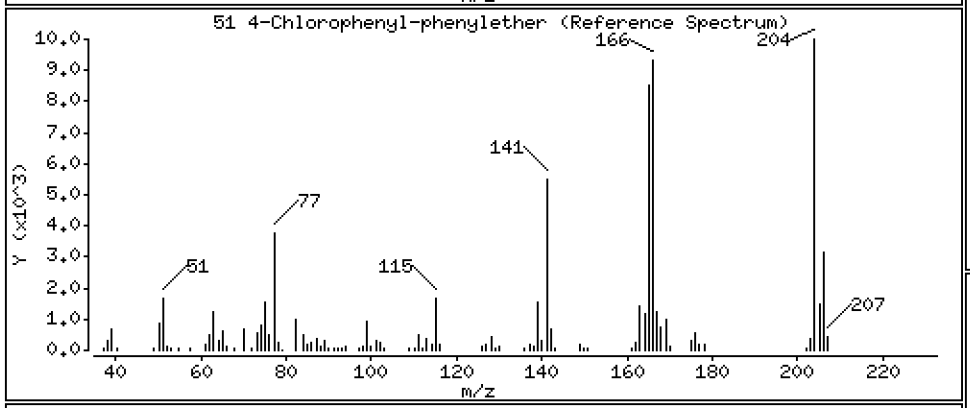
Concentration: 5.187 ug/mL

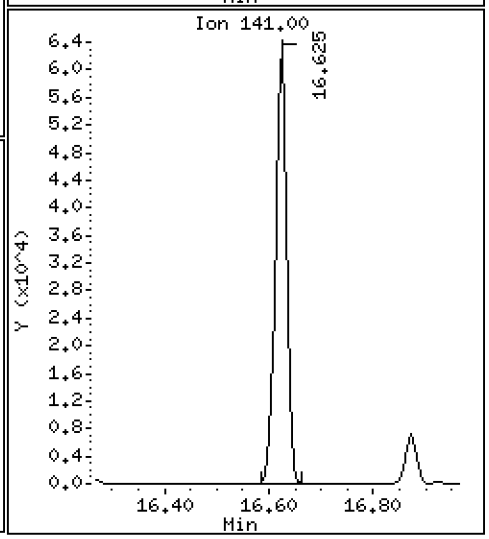


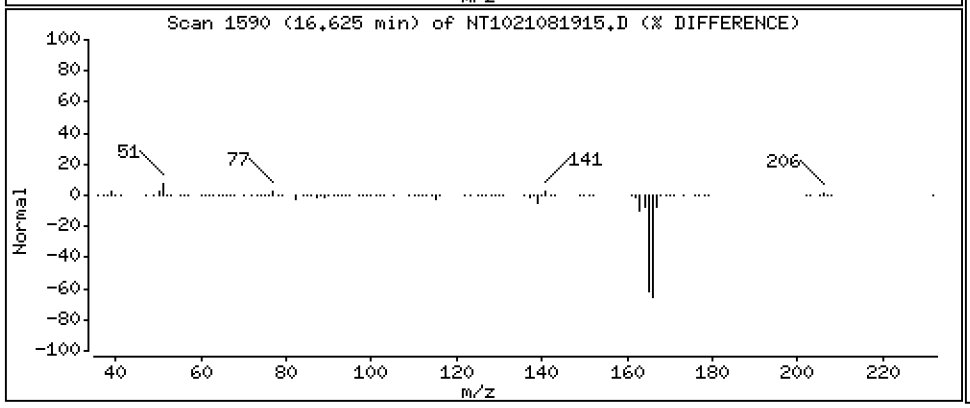












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

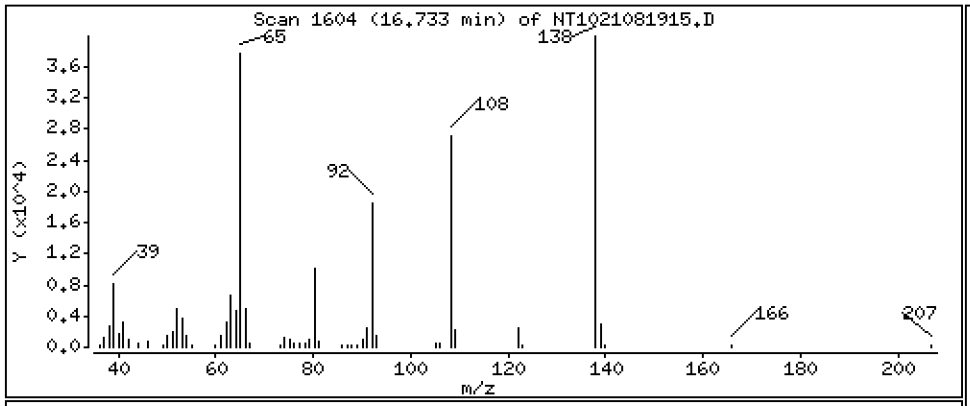
Operator: VTS

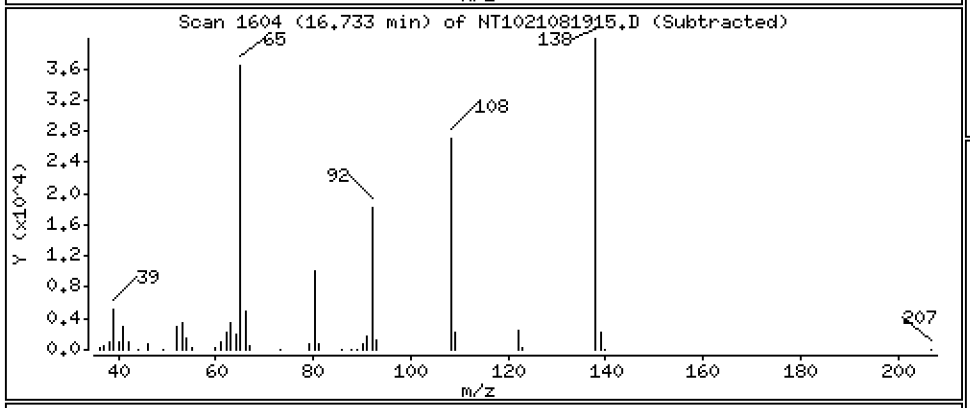
Column phase: ZB-5msi

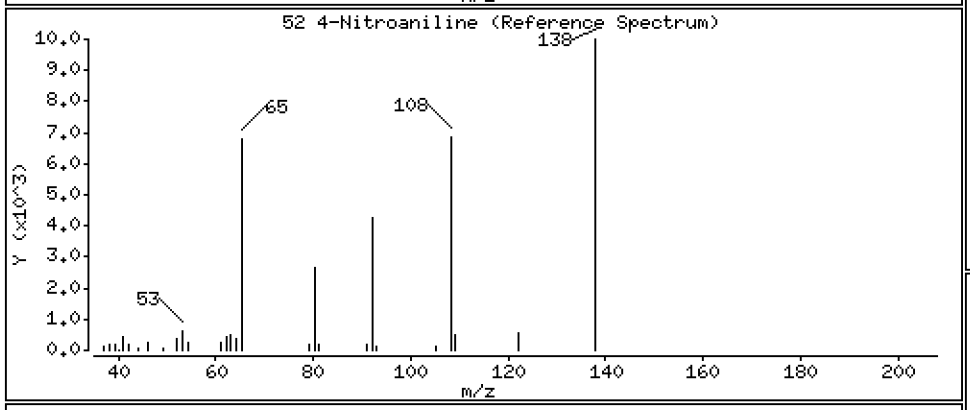
Column diameter: 0.25

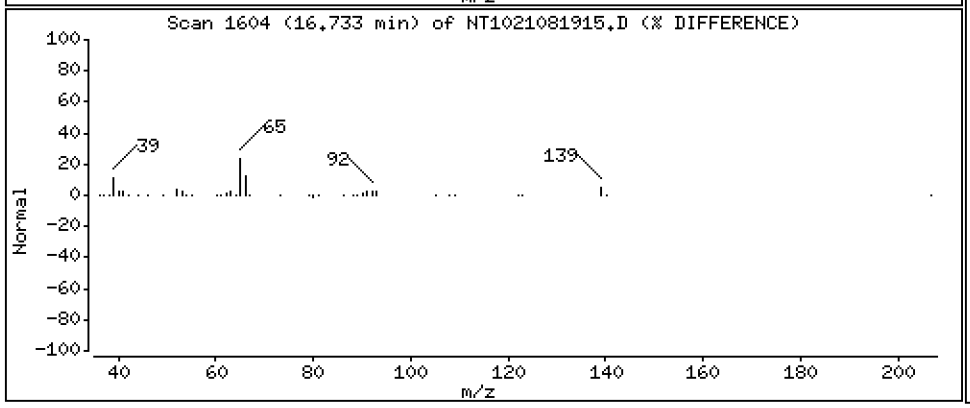
52 4-Nitroaniline

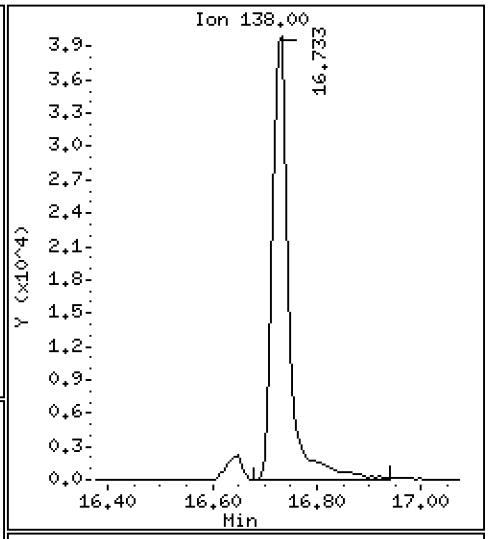
Concentration: 4.788 ug/mL

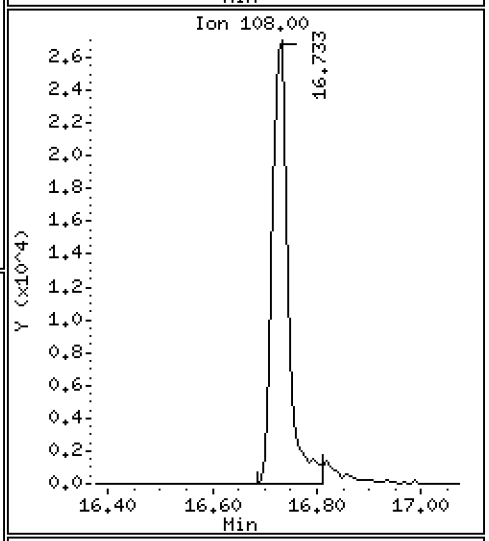


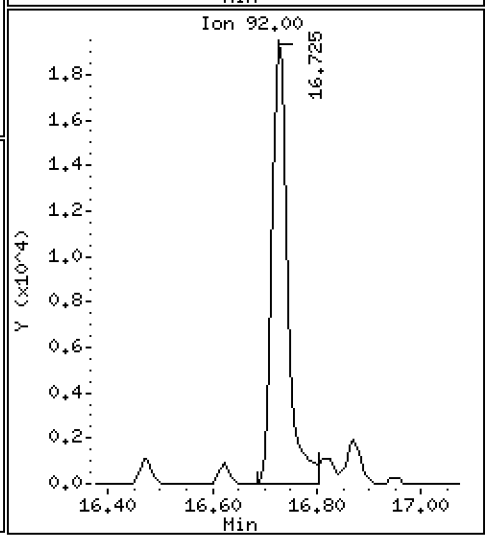












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

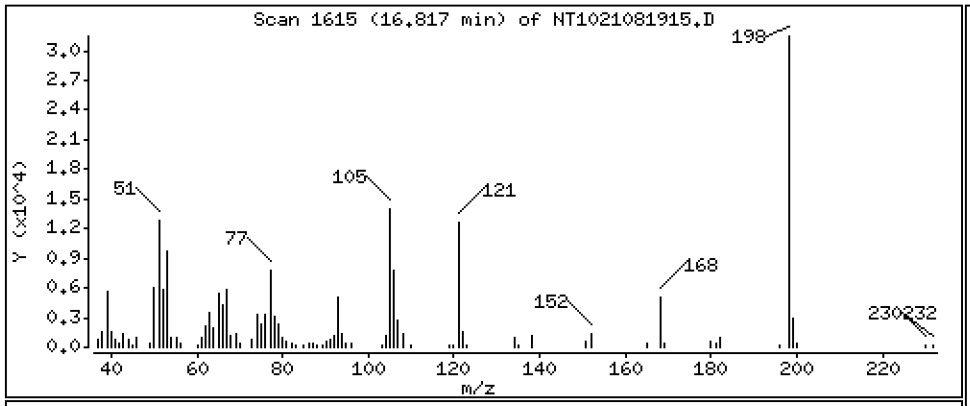
Operator: VTS

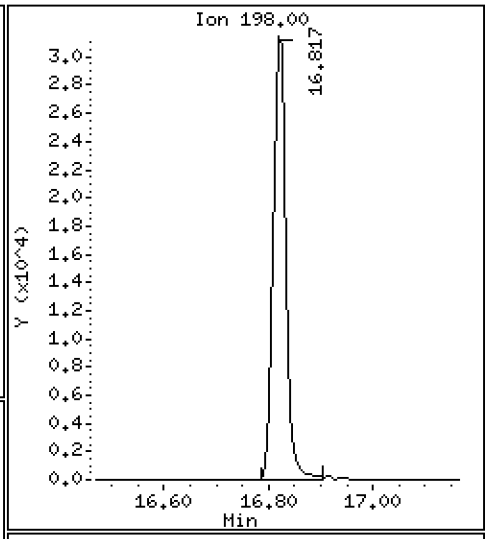
Column phase: ZB-5msi

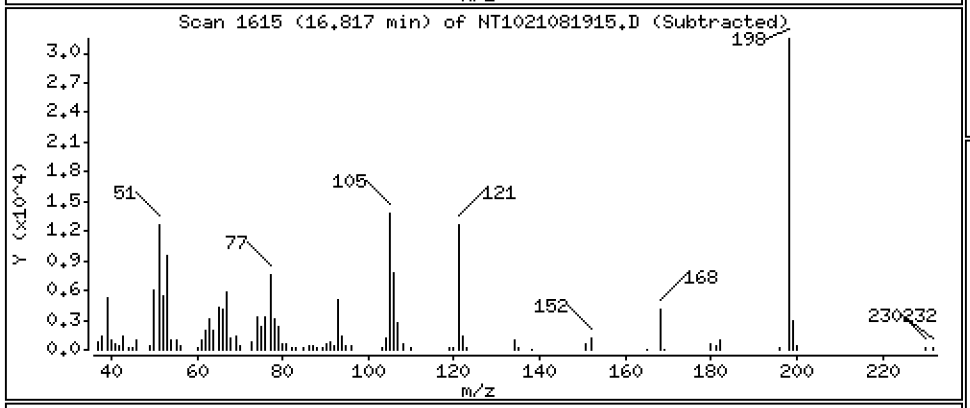
Column diameter: 0.25

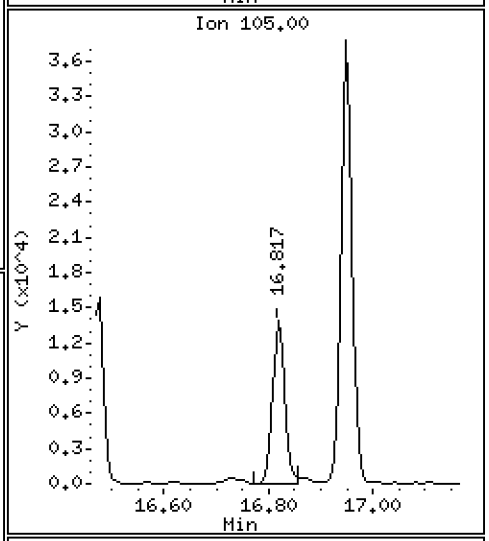
53 4,6-Dinitro-2-methylphenol

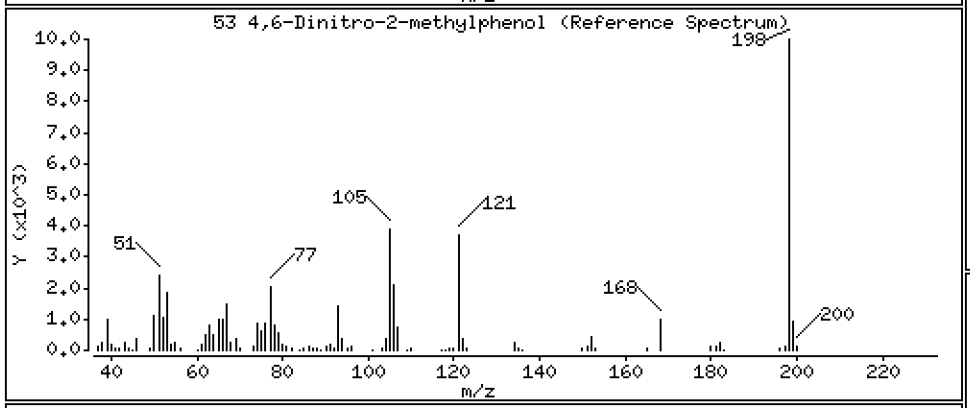
Concentration: 3.885 ug/mL

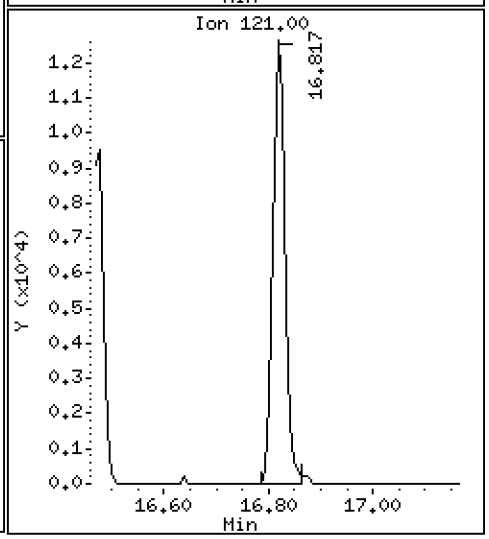


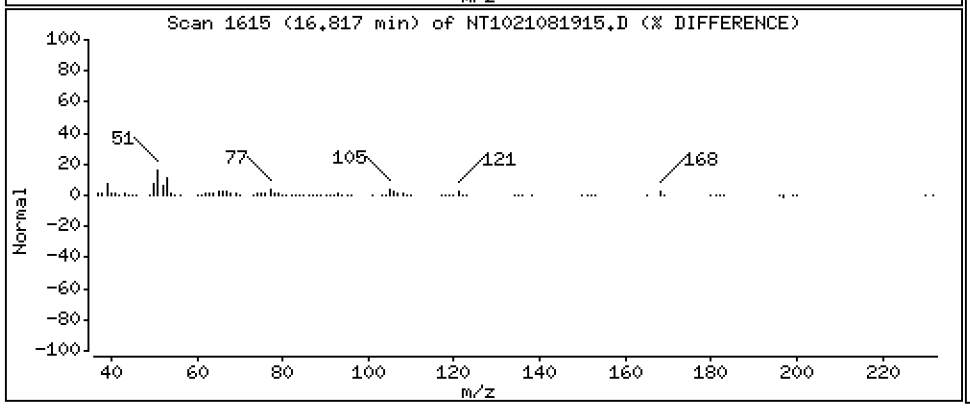












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

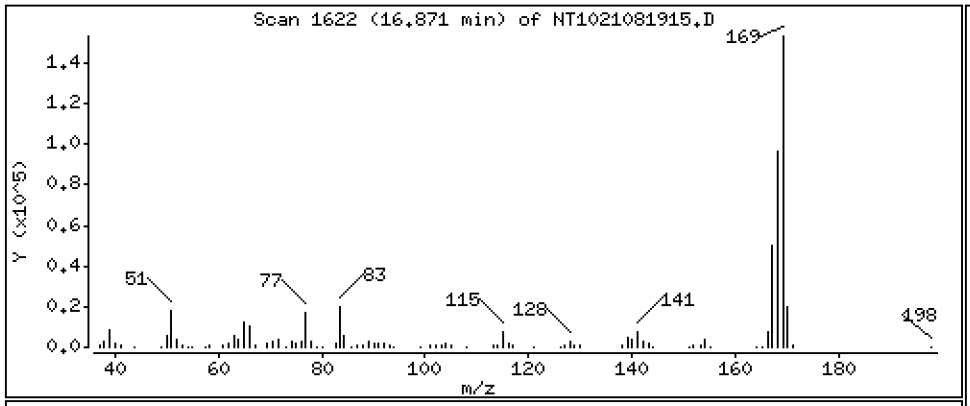
Operator: VTS

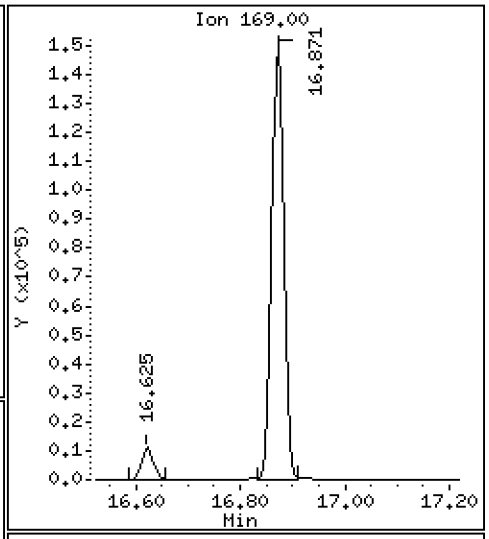
Column phase: ZB-5msi

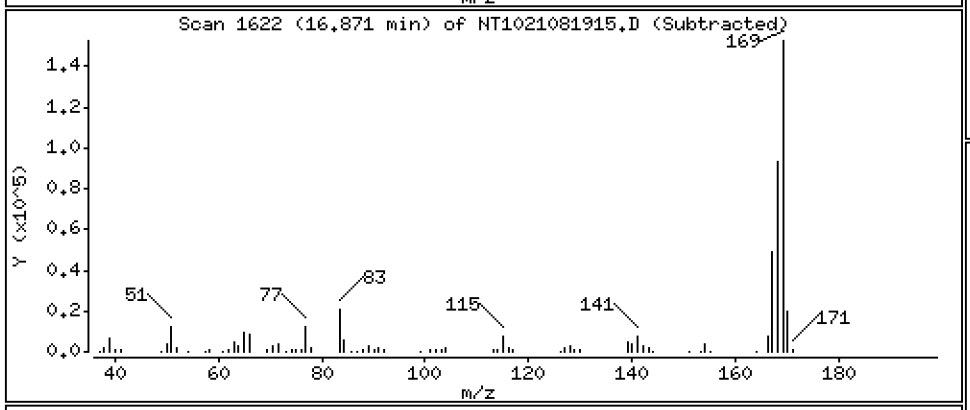
Column diameter: 0.25

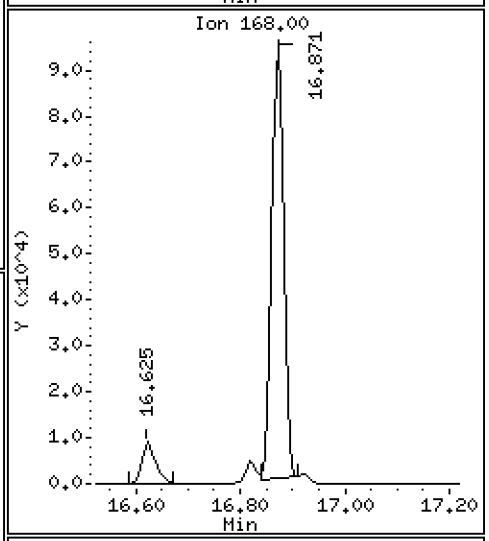
54 N-Nitrosodiphenylamine

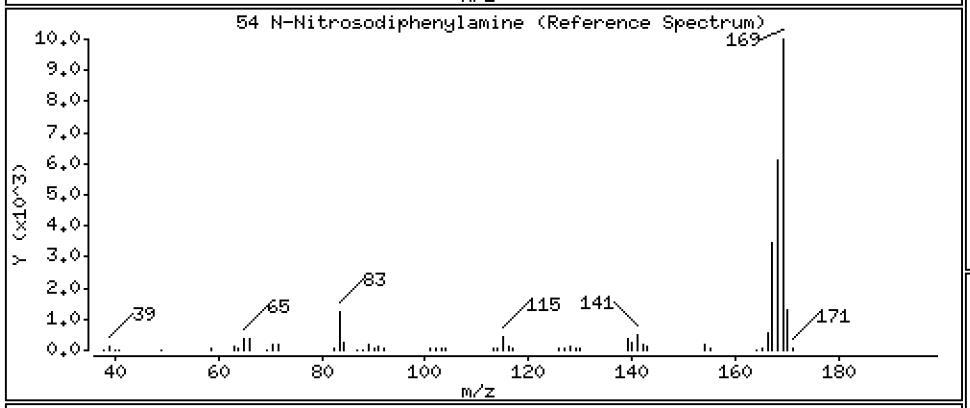
Concentration: 4.835 ug/mL

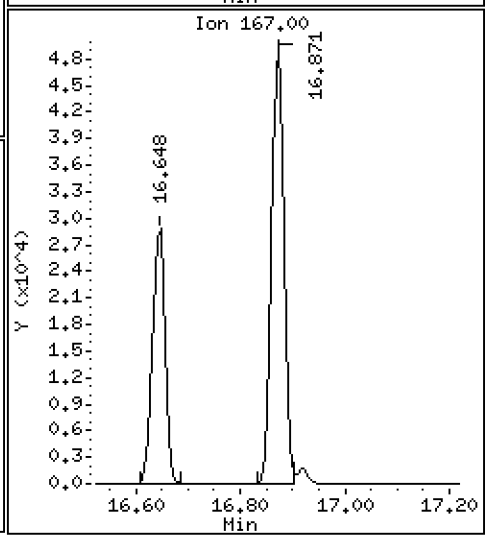


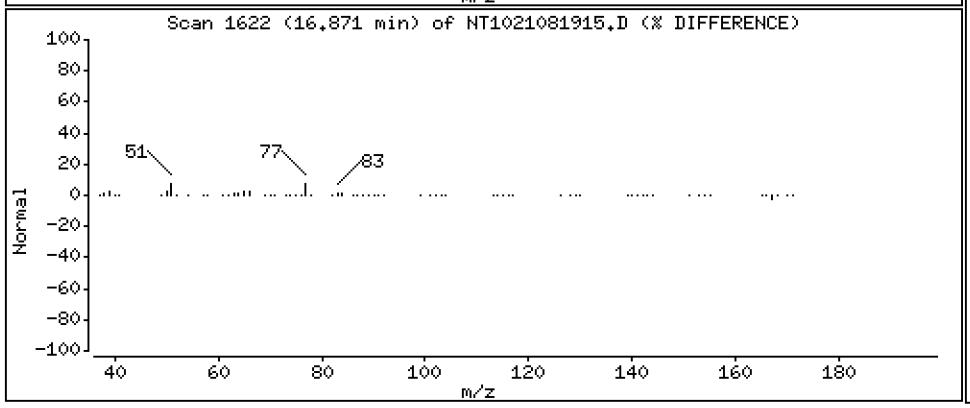












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

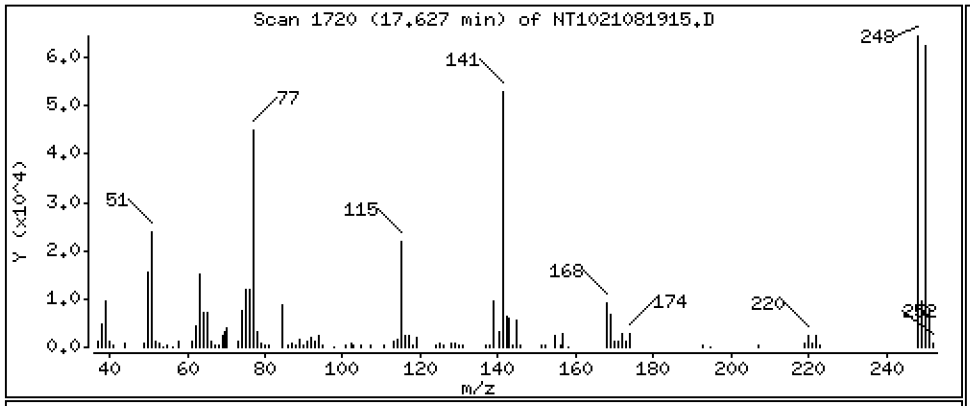
Operator: VTS

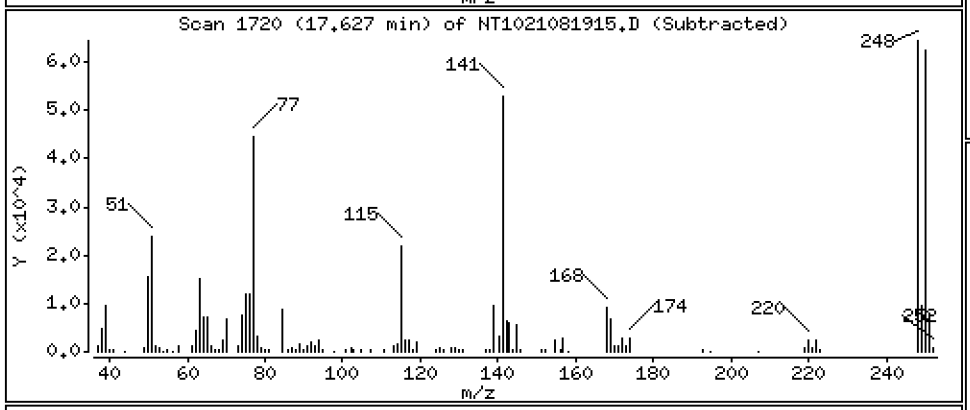
Column phase: ZB-5msi

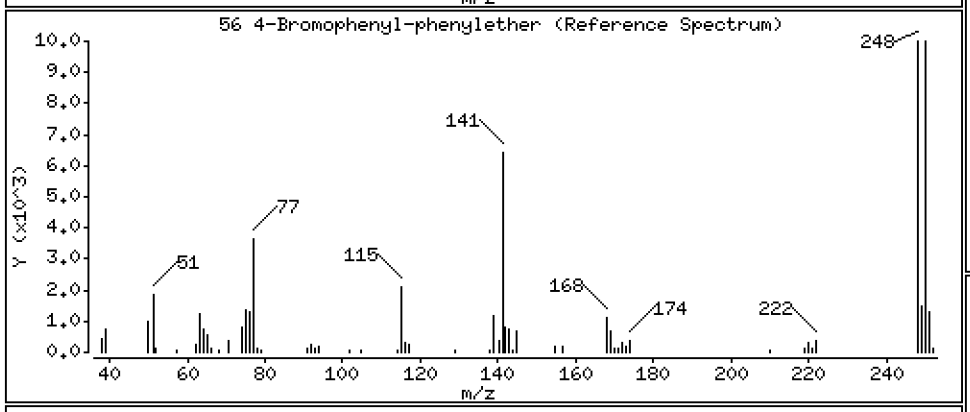
Column diameter: 0.25

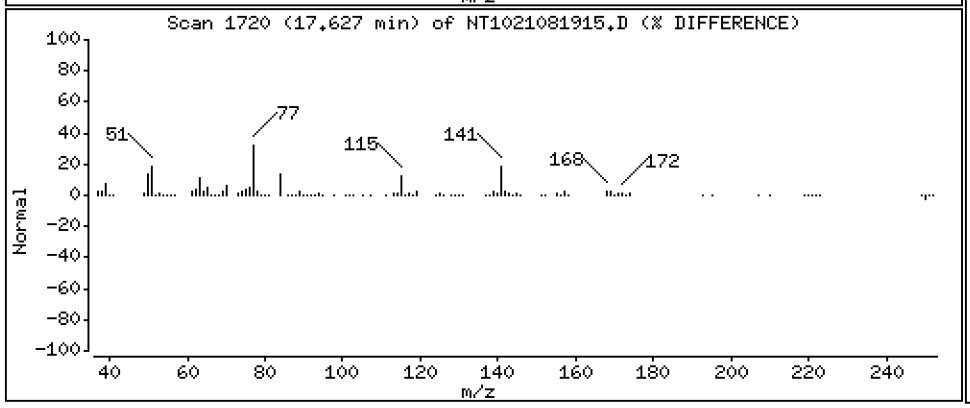
56 4-Bromophenyl-phenylether

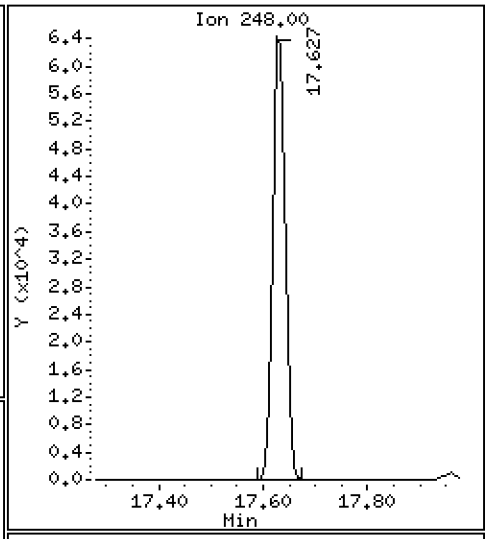
Concentration: 5.399 ug/mL

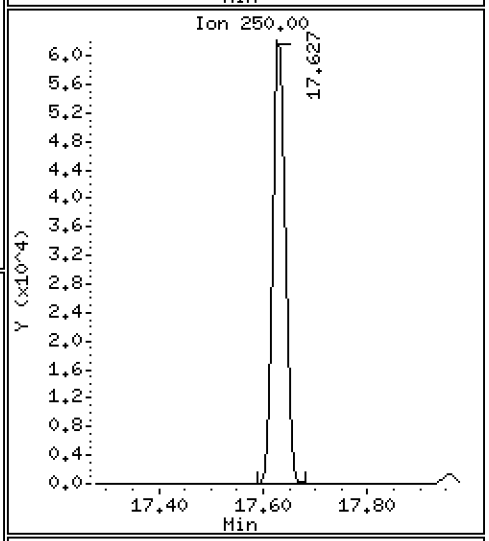


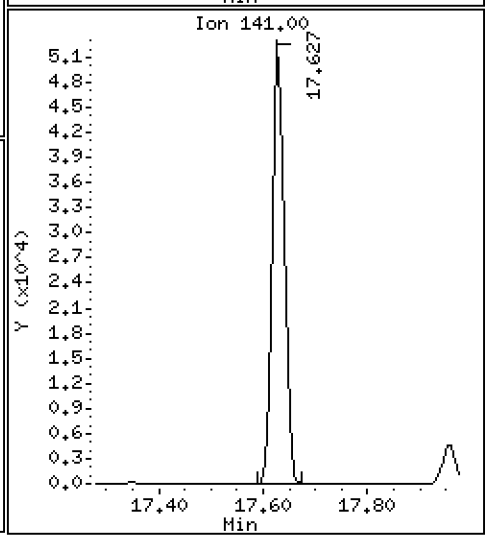












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

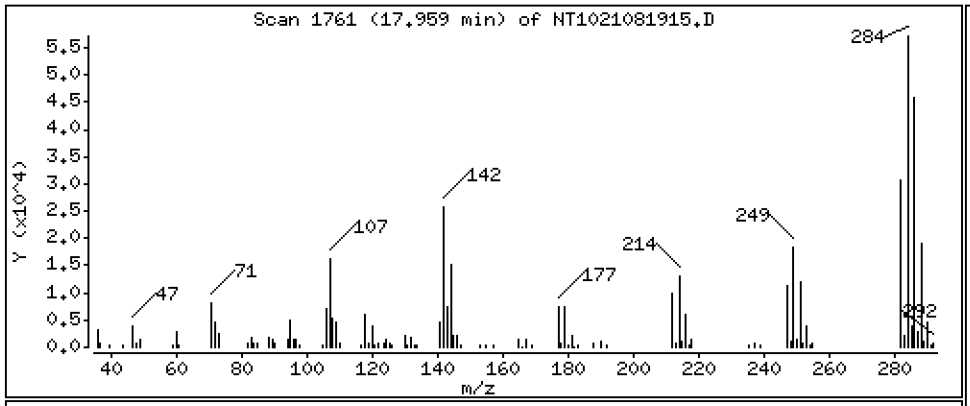
Operator: VTS

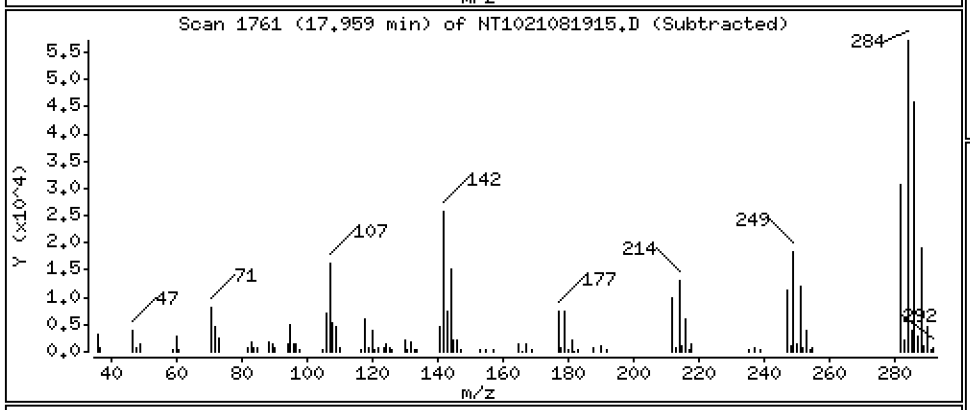
Column phase: ZB-5msi

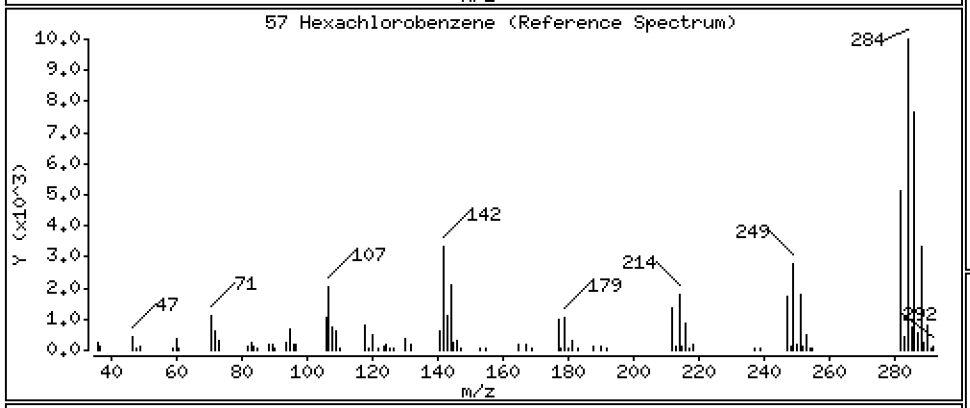
Column diameter: 0.25

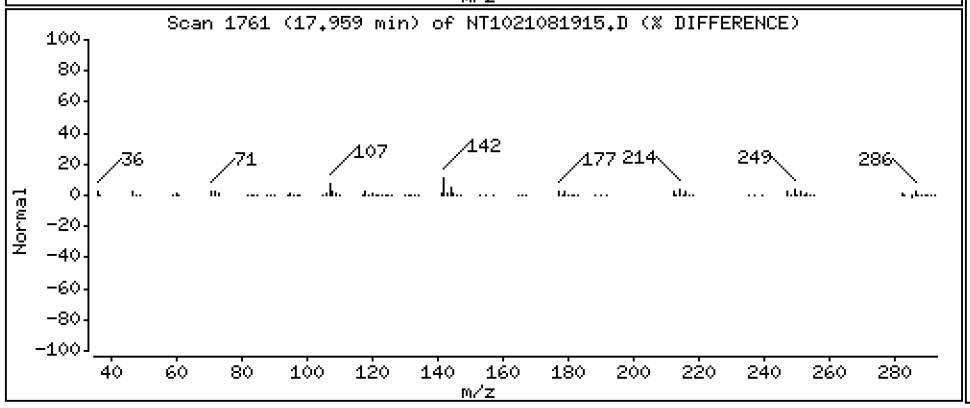
57 Hexachlorobenzene

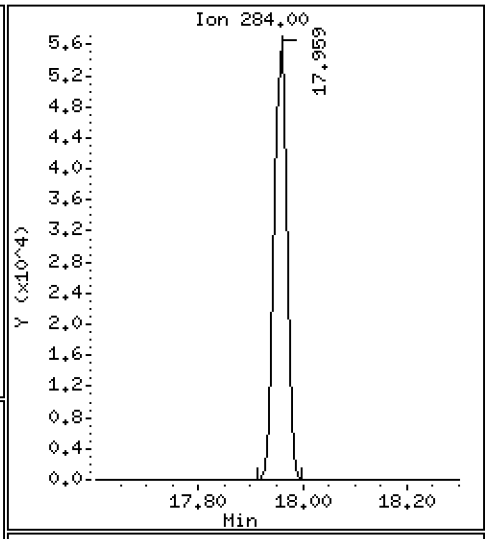
Concentration: 5.063 ug/mL

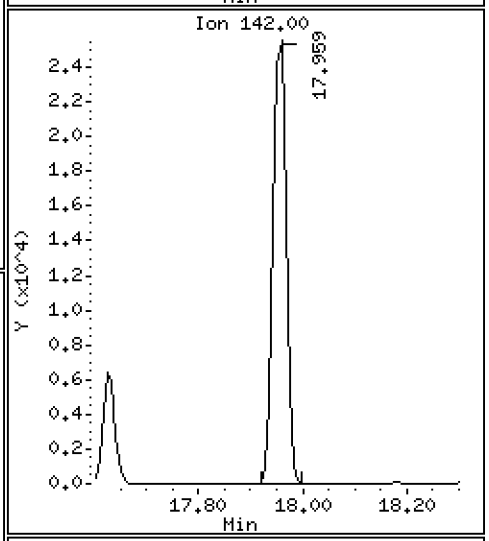


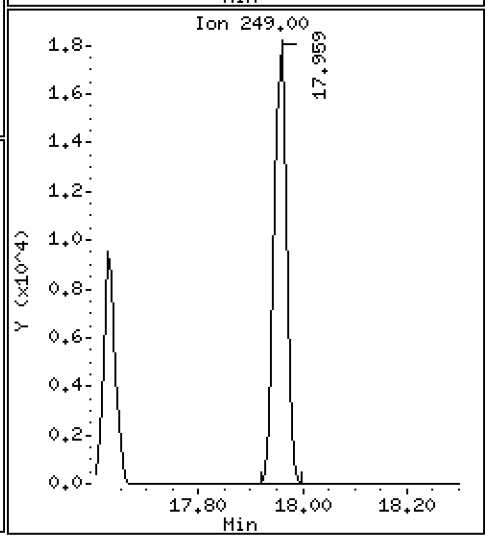












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

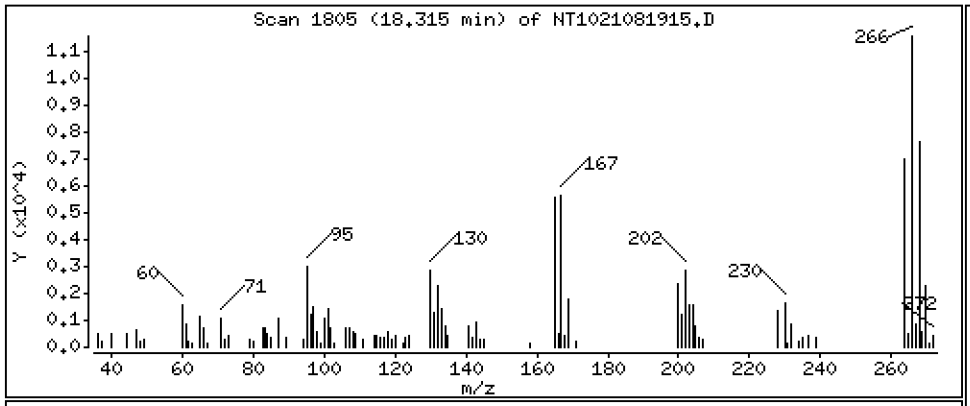
Operator: VTS

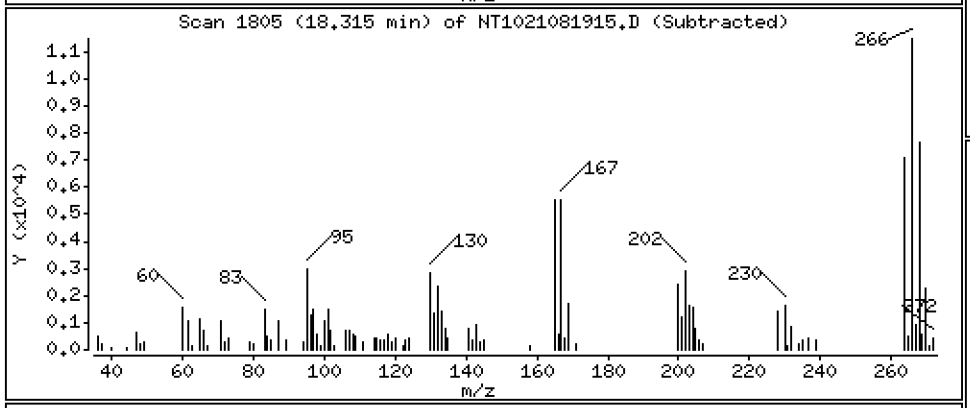
Column phase: ZB-5msi

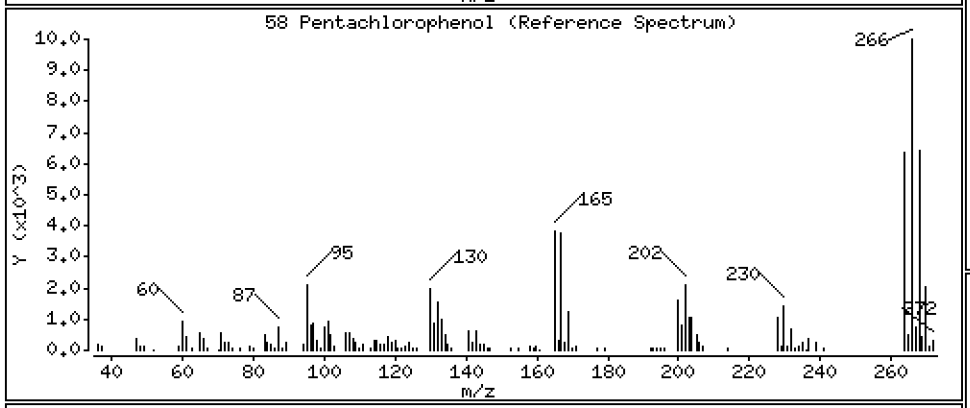
Column diameter: 0.25

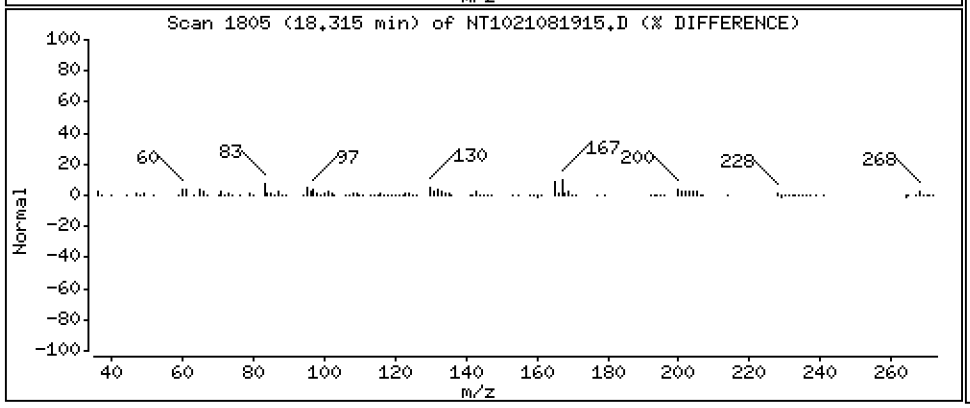
58 Pentachlorophenol

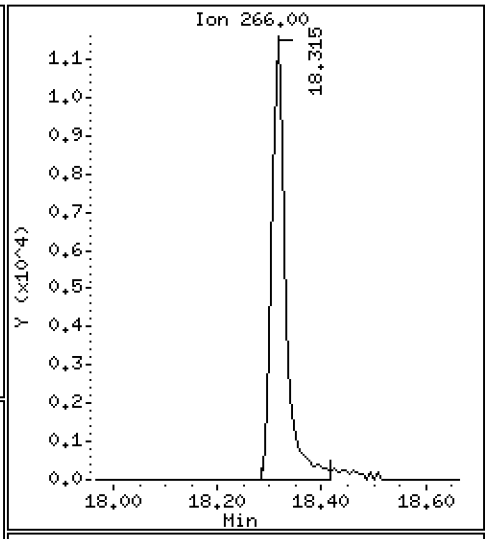
Concentration: 3.120 ug/mL

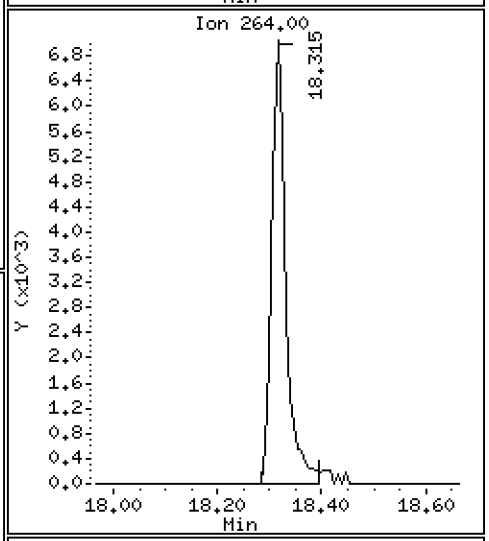


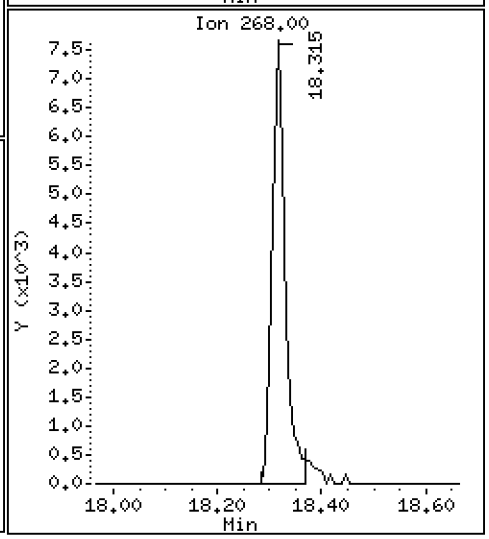












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

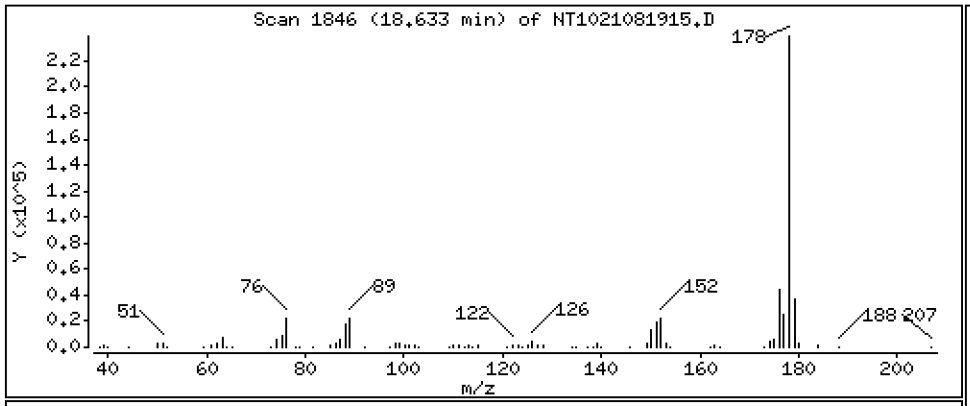
Operator: VTS

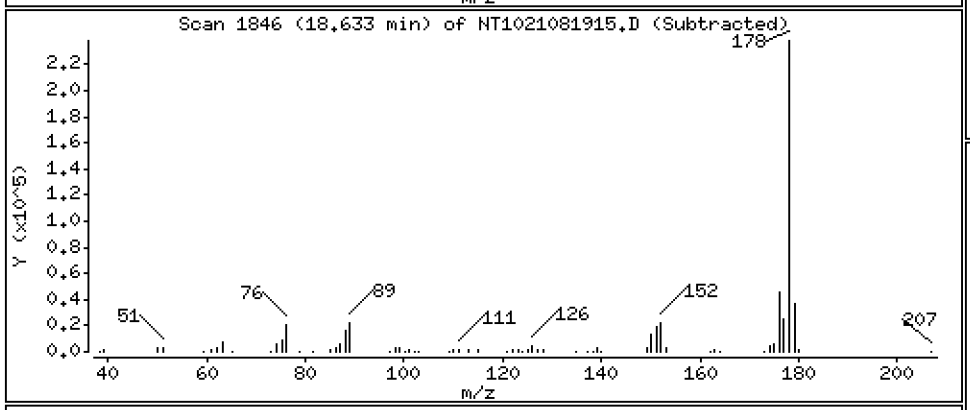
Column phase: ZB-5msi

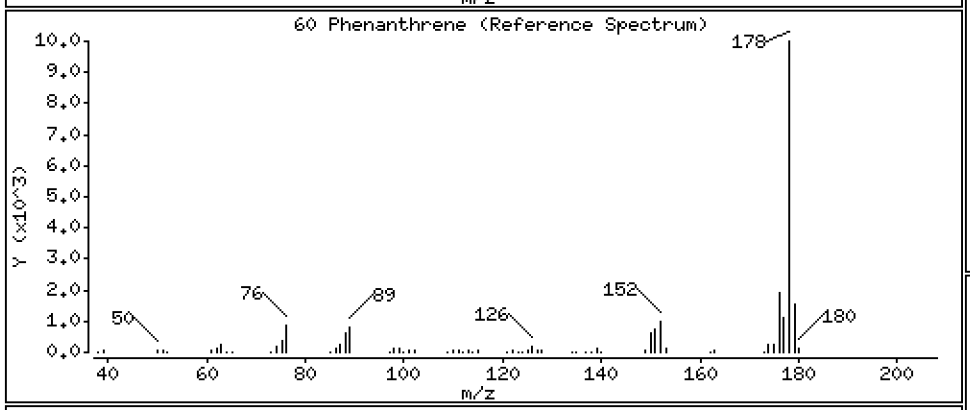
Column diameter: 0.25

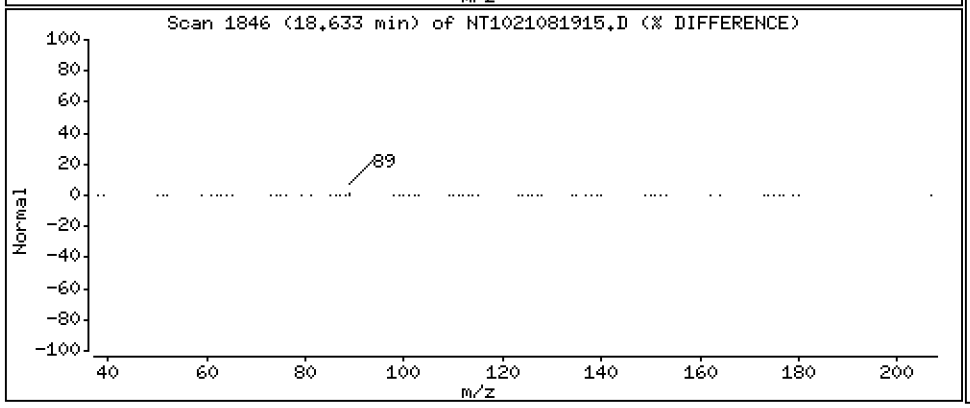
60 Phenanthrene

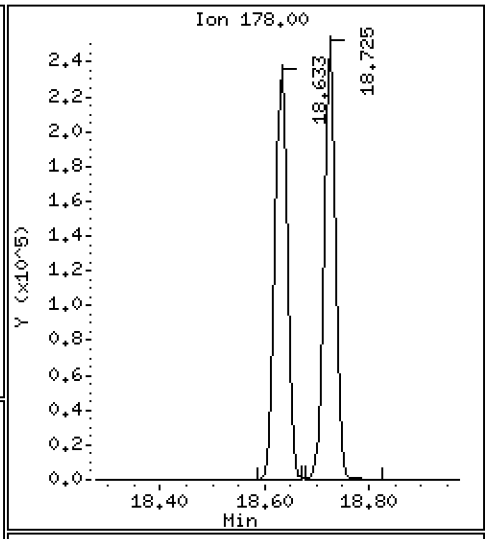
Concentration: 4.855 ug/mL

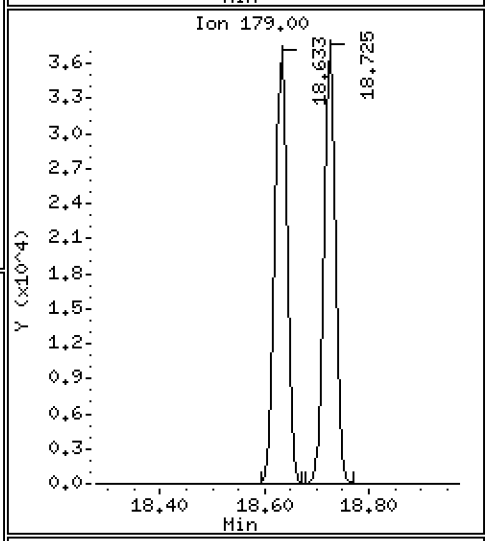


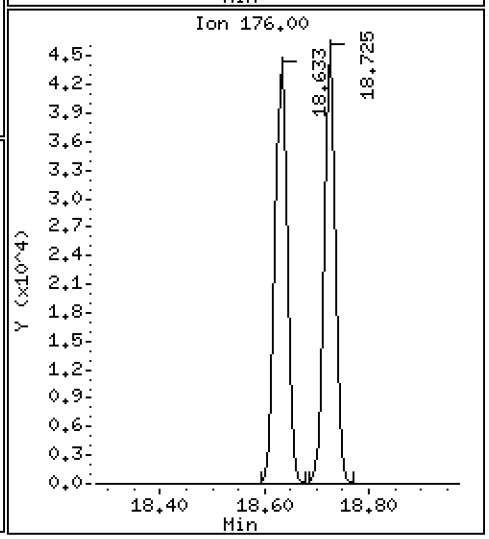












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

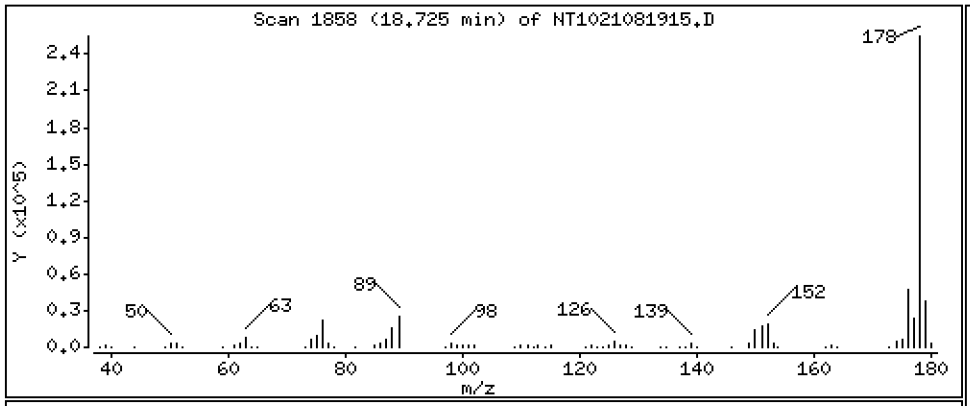
Operator: VTS

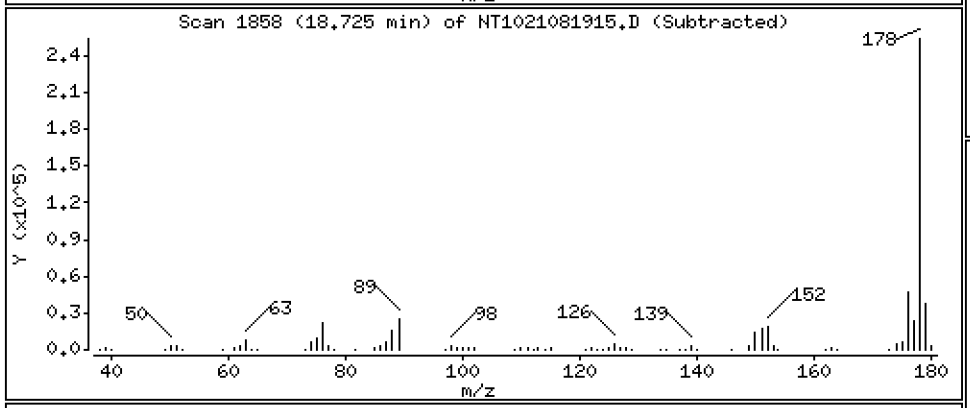
Column phase: ZB-5msi

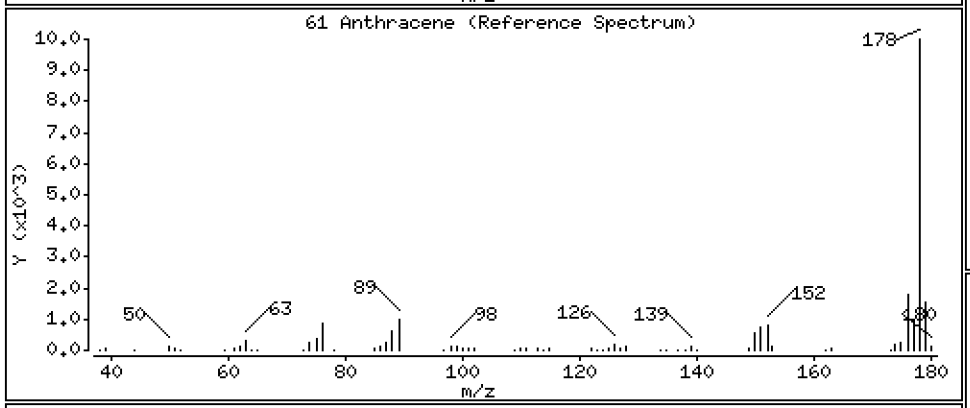
Column diameter: 0.25

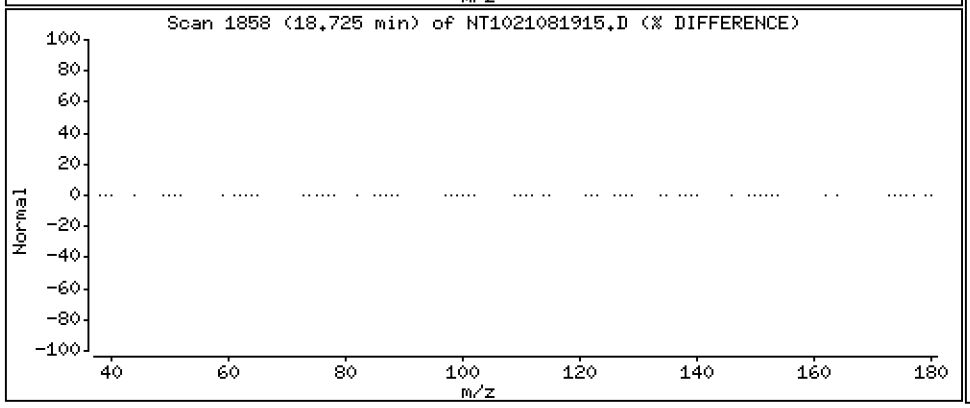
61 Anthracene

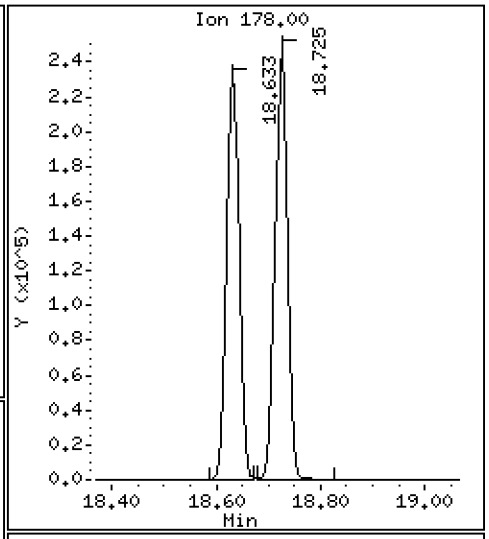
Concentration: 4.813 ug/mL

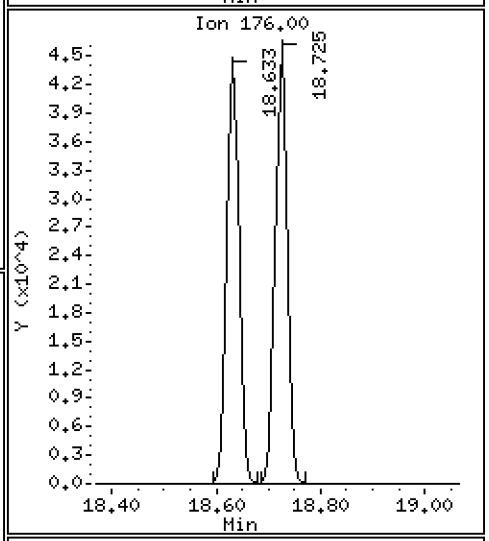


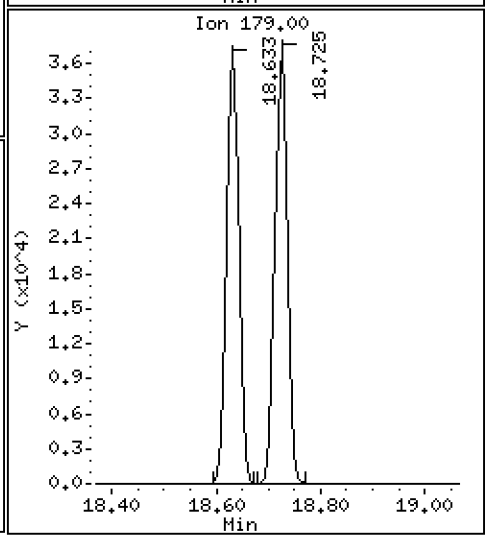












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

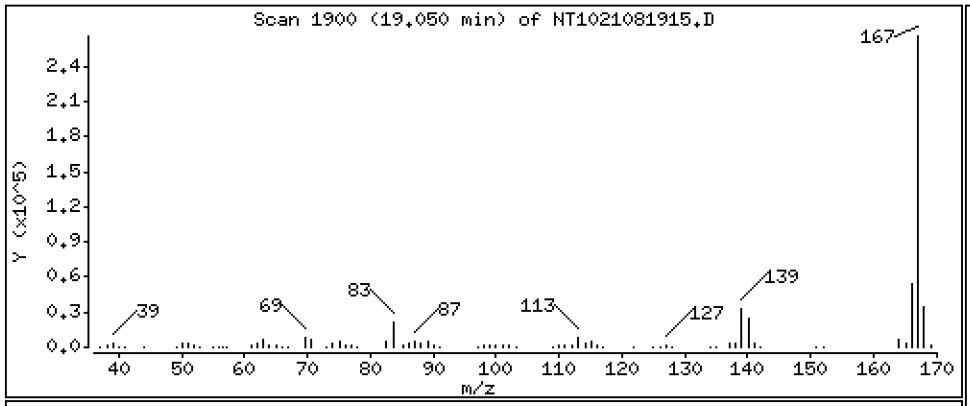
Operator: VTS

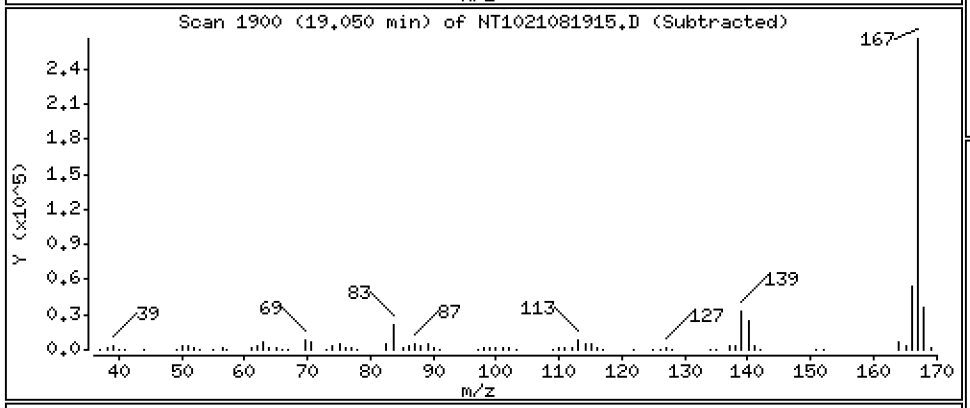
Column phase: ZB-5msi

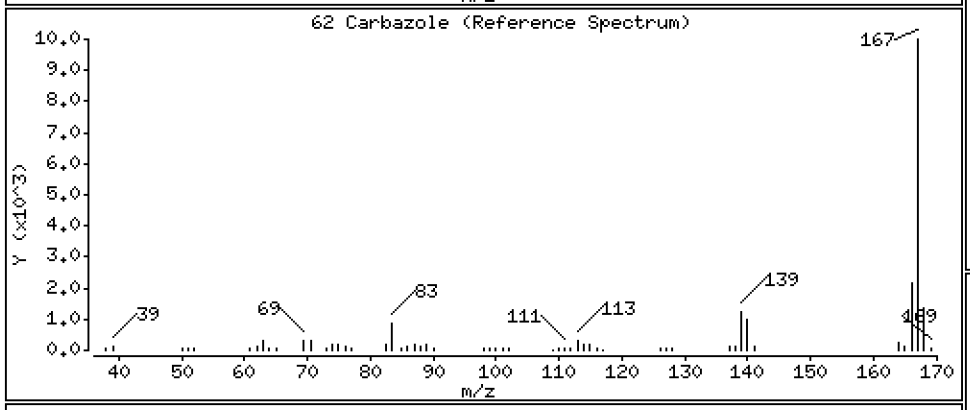
Column diameter: 0.25

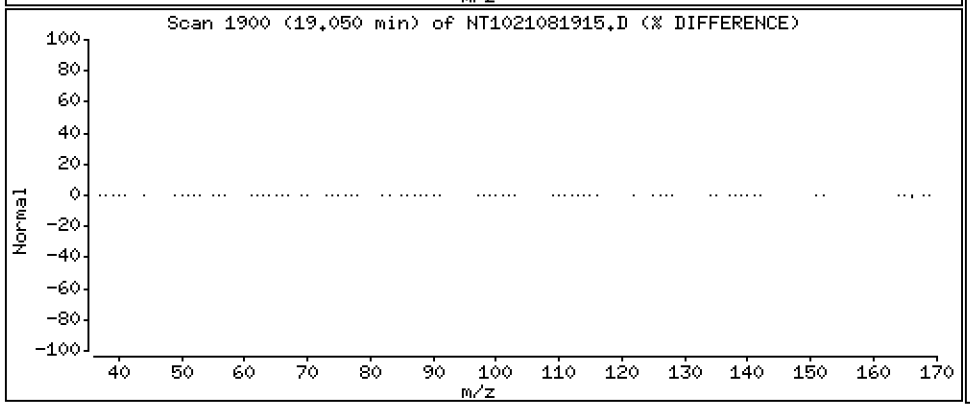
62 Carbazole

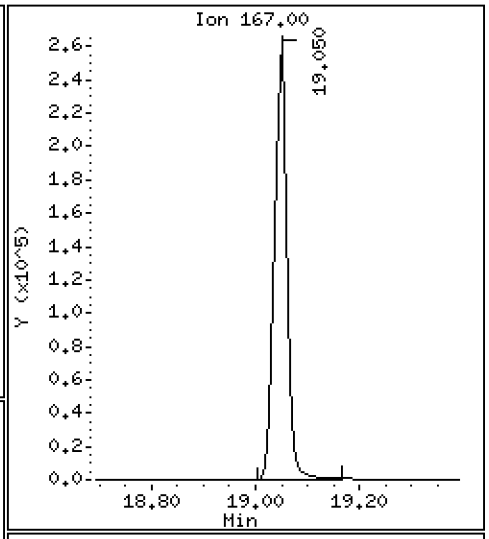
Concentration: 4.972 ug/mL

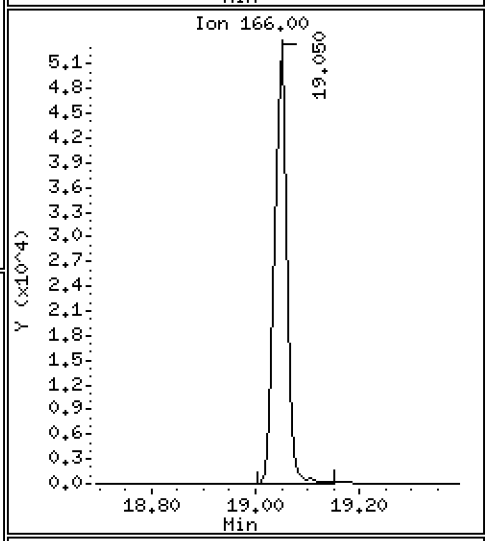


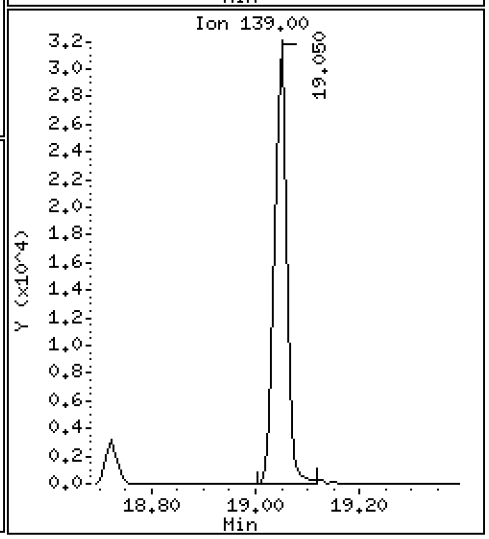












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

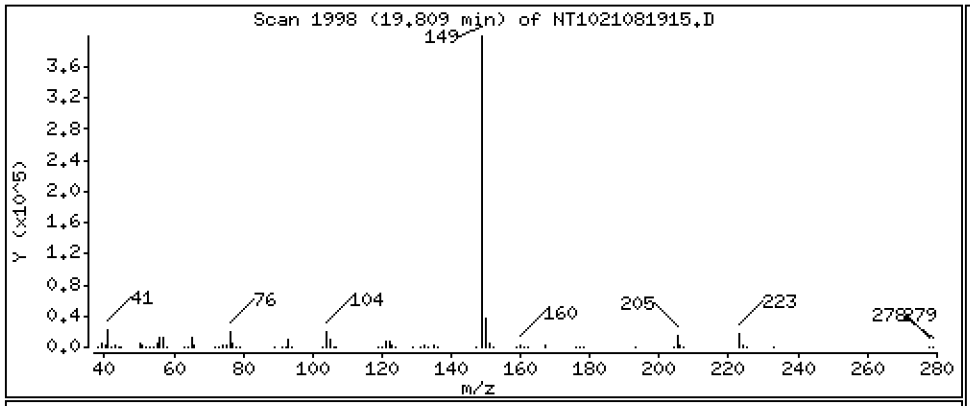
Operator: VTS

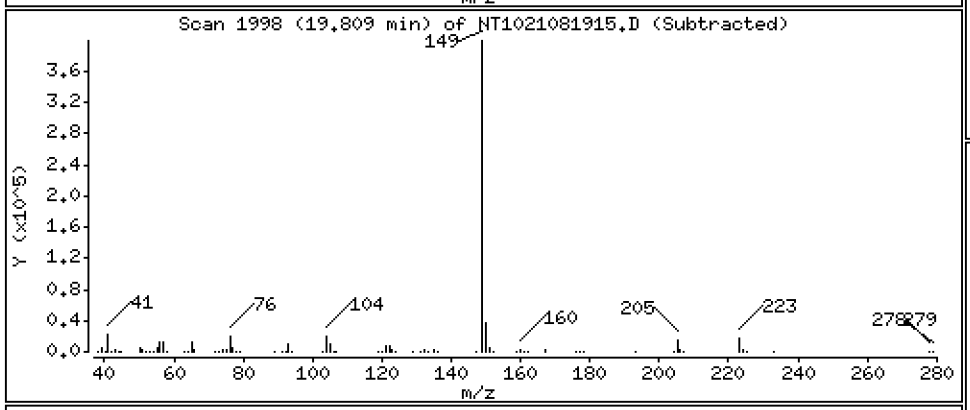
Column phase: ZB-5msi

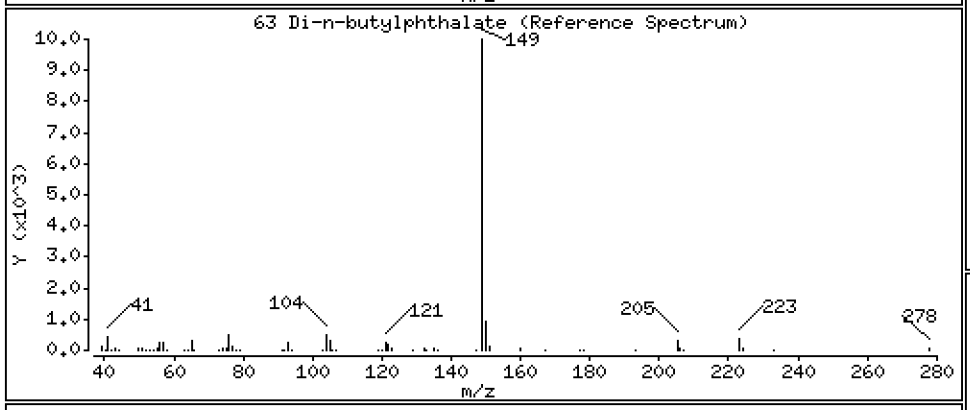
Column diameter: 0.25

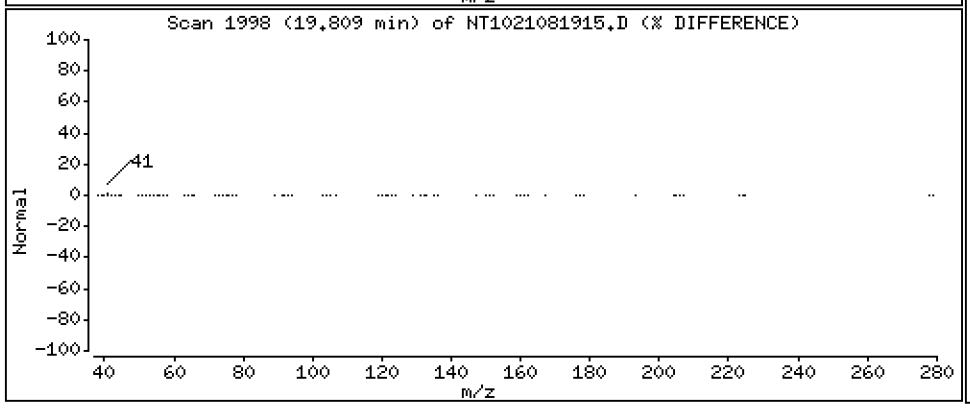
63 Di-n-butylphthalate

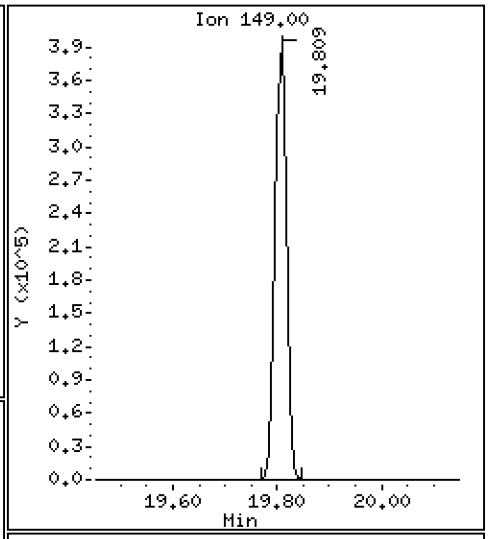
Concentration: 5.375 ug/mL

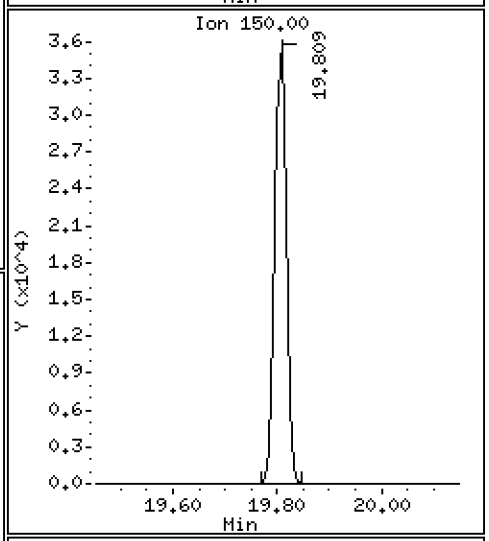


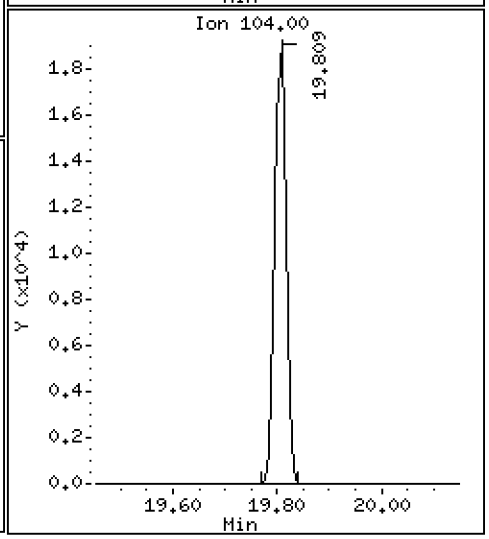












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

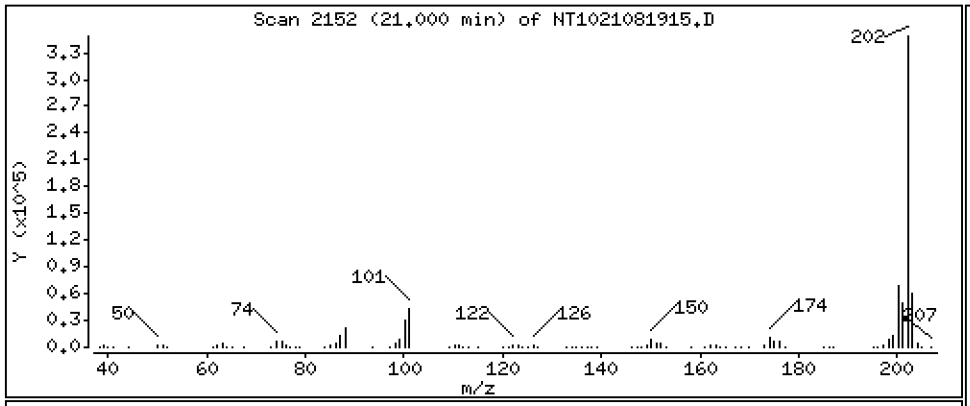
Operator: VTS

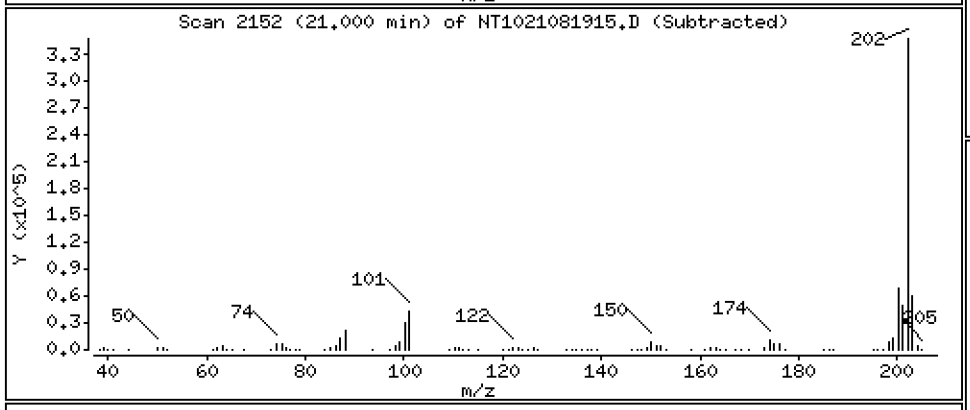
Column phase: ZB-5msi

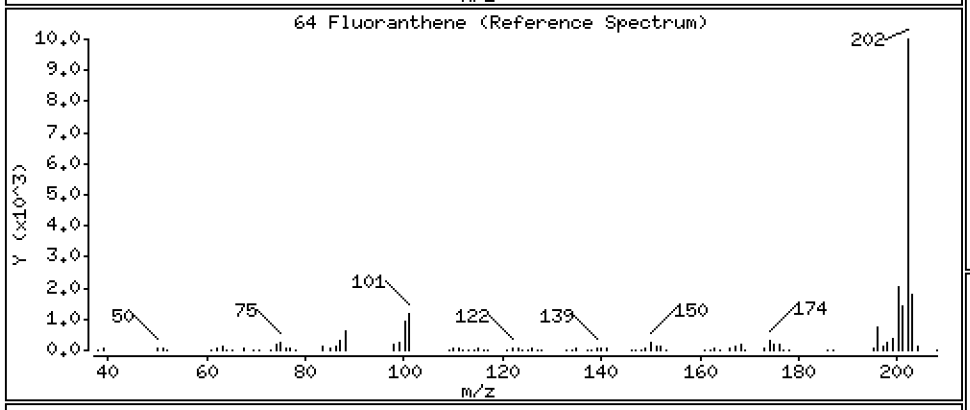
Column diameter: 0.25

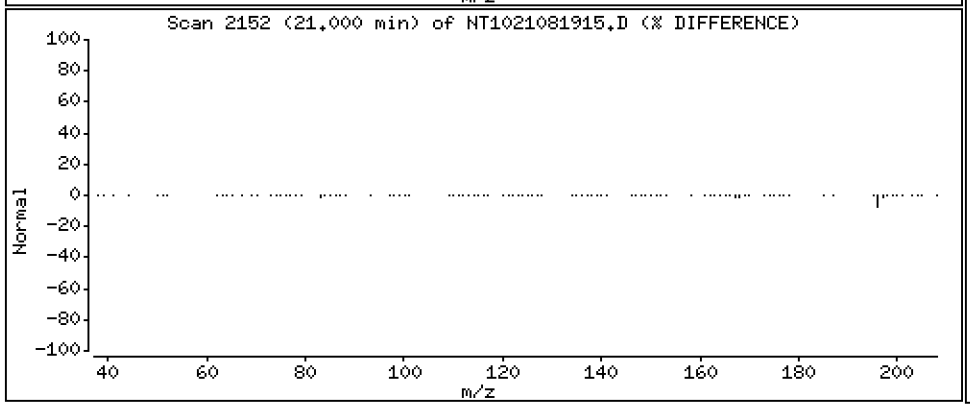
64 Fluoranthene

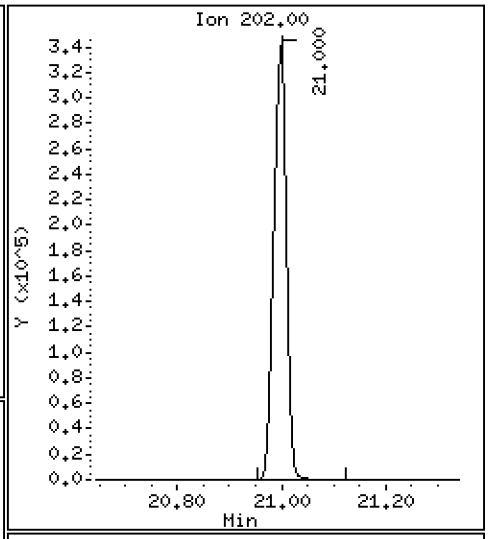
Concentration: 4.853 ug/mL

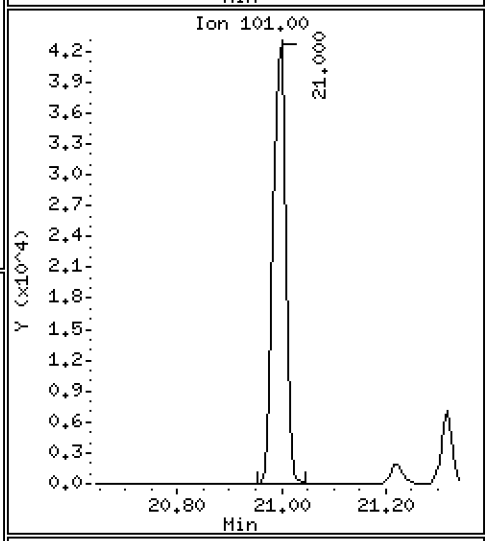


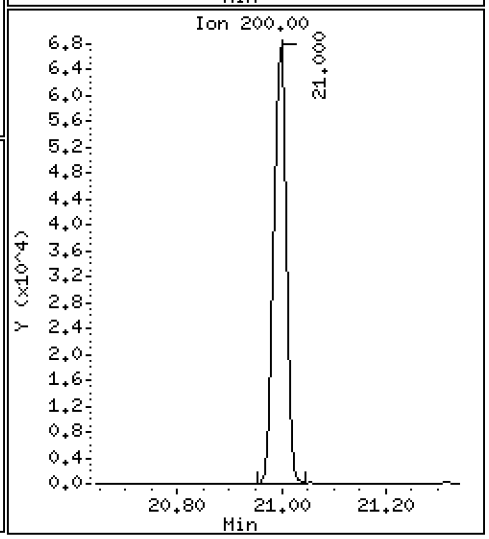












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

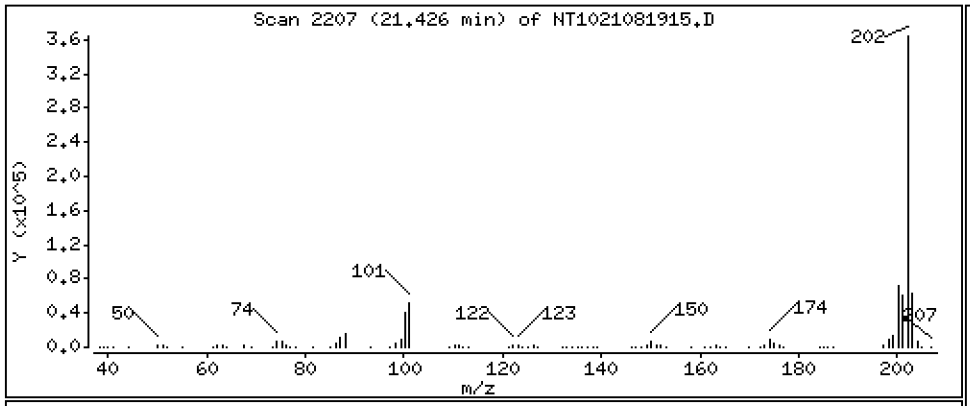
Operator: VTS

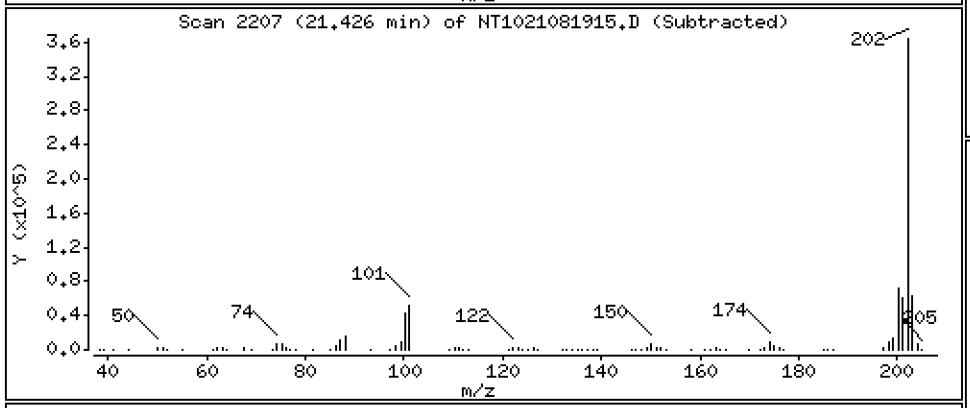
Column phase: ZB-5msi

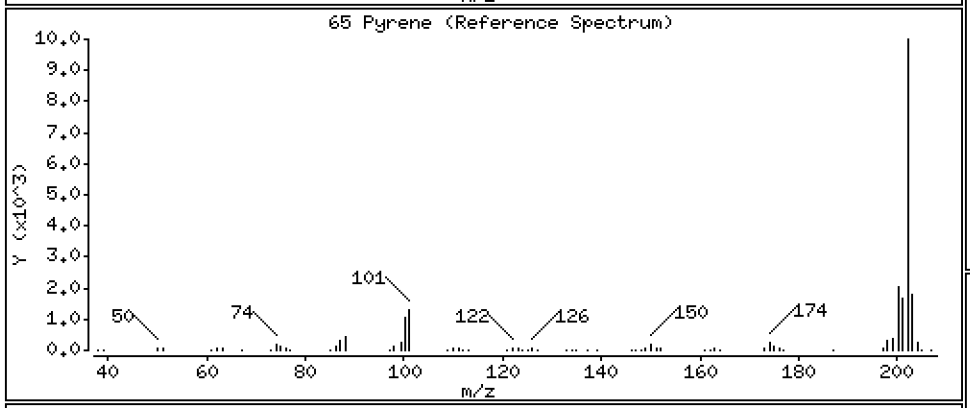
Column diameter: 0.25

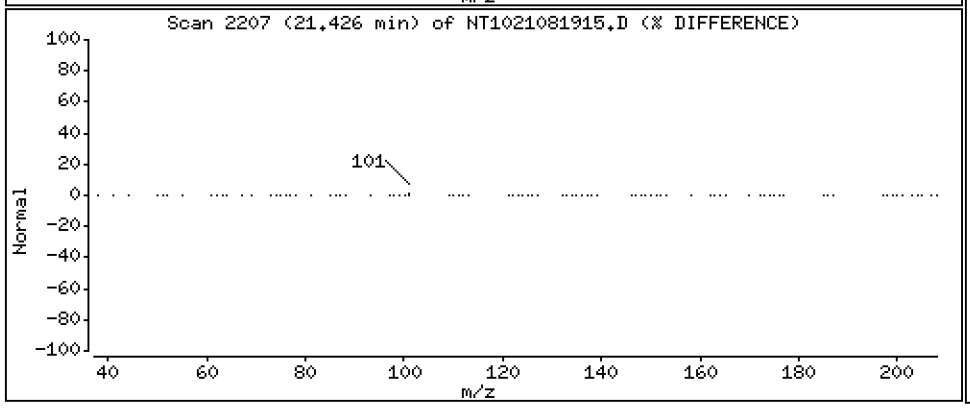
65 Pyrene

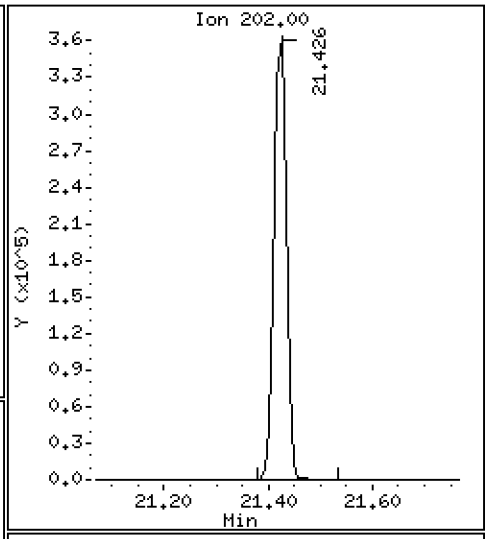
Concentration: 4.862 ug/mL

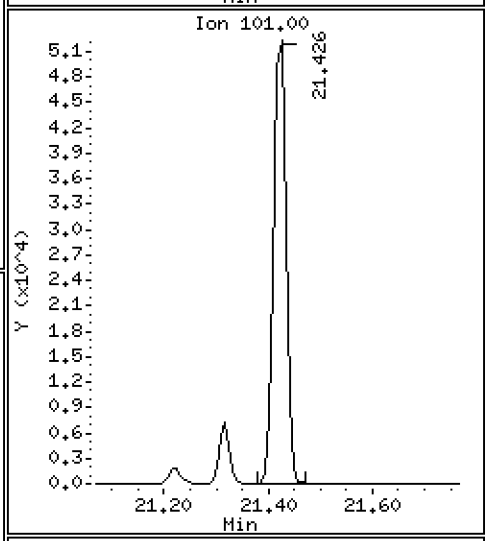


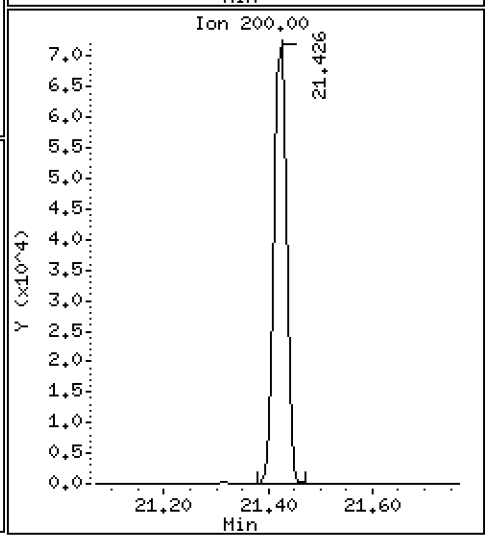












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

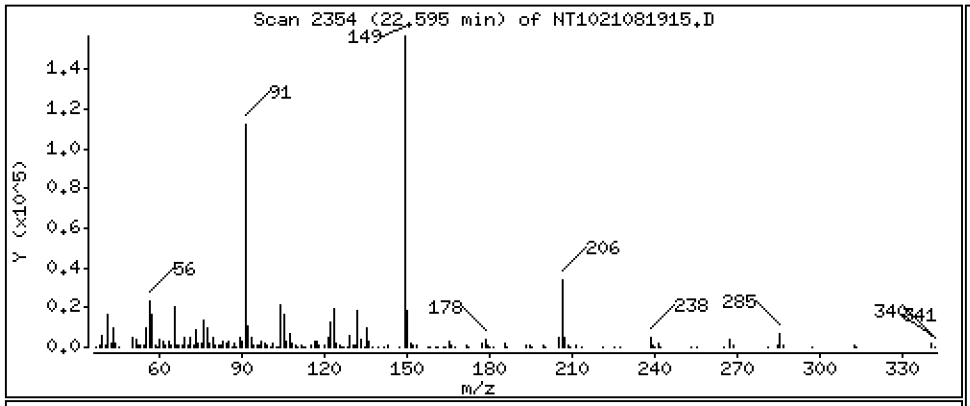
Operator: VTS

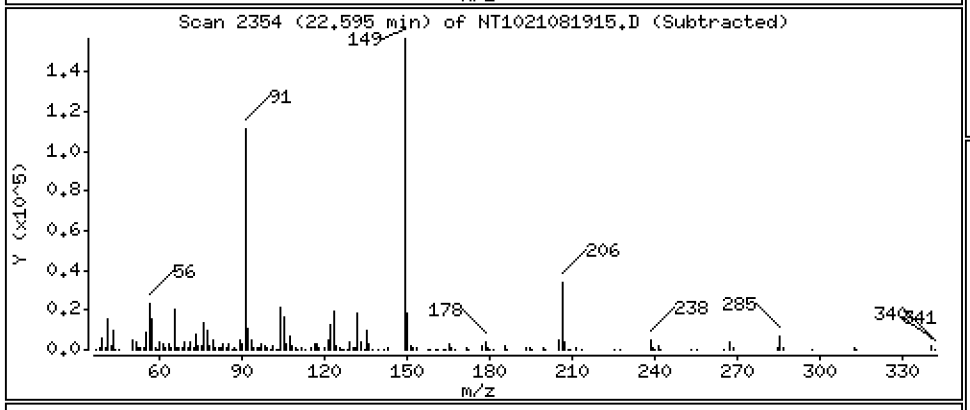
Column phase: ZB-5msi

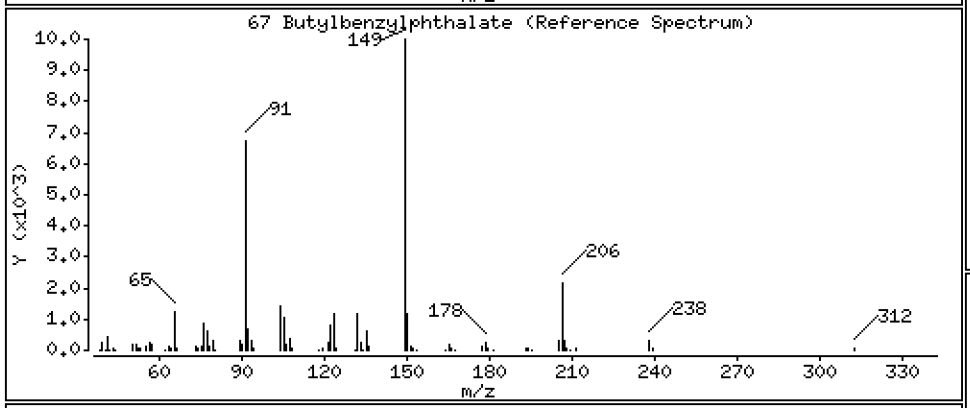
Column diameter: 0.25

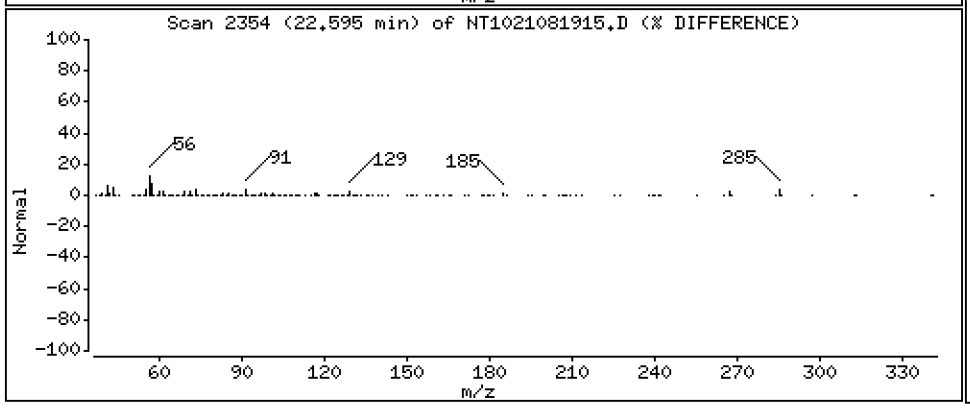
67 Butylbenzylphthalate

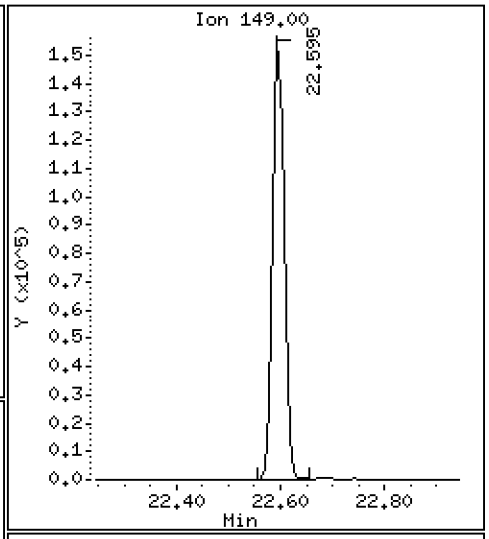
Concentration: 4.889 ug/mL

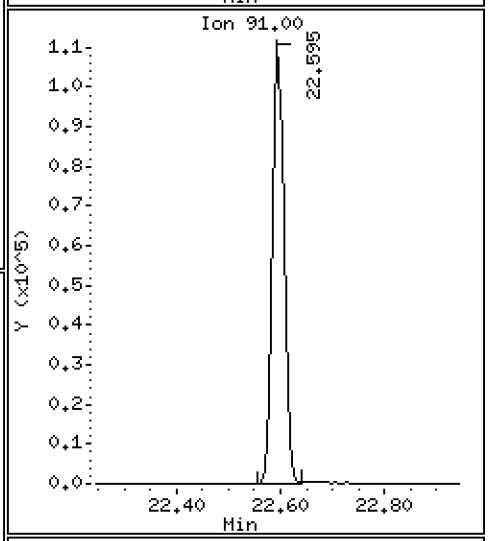


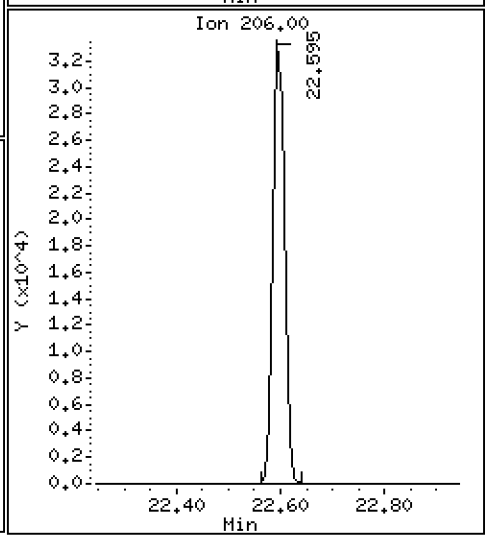












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

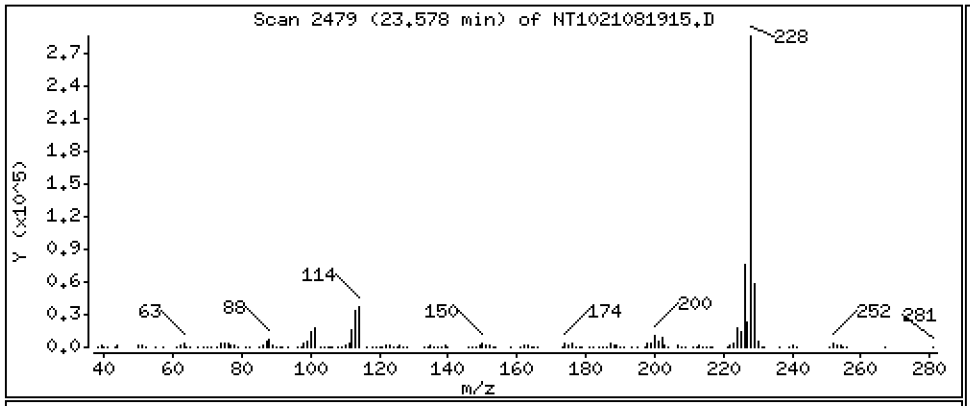
Operator: VTS

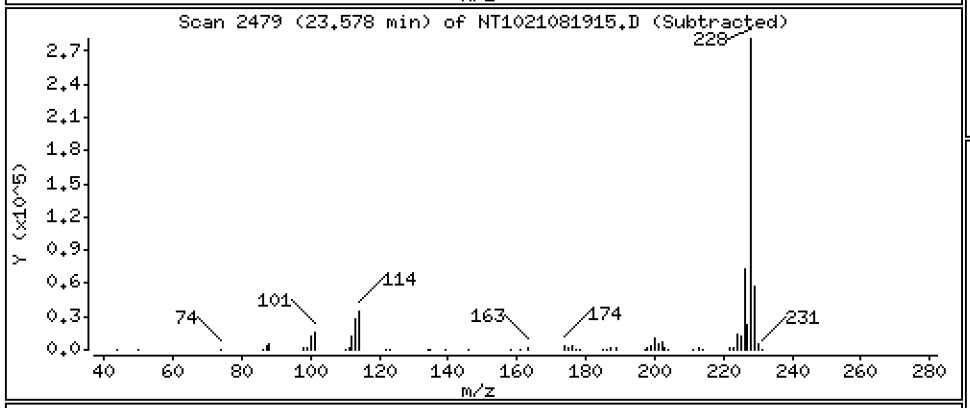
Column phase: ZB-5msi

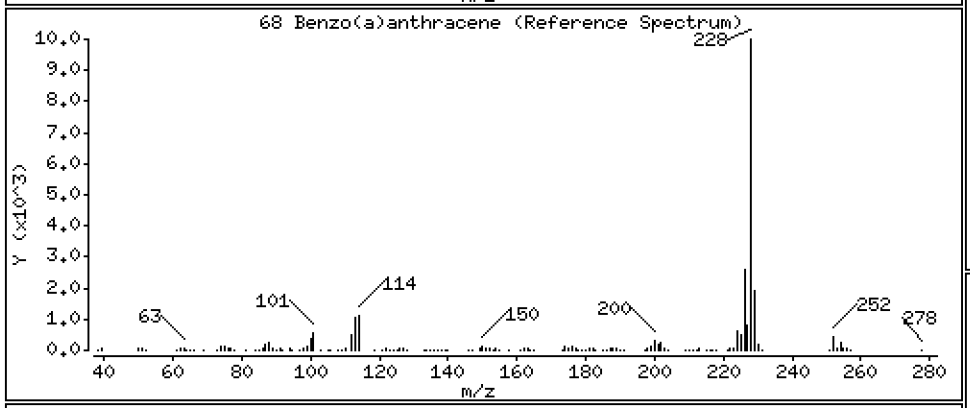
Column diameter: 0.25

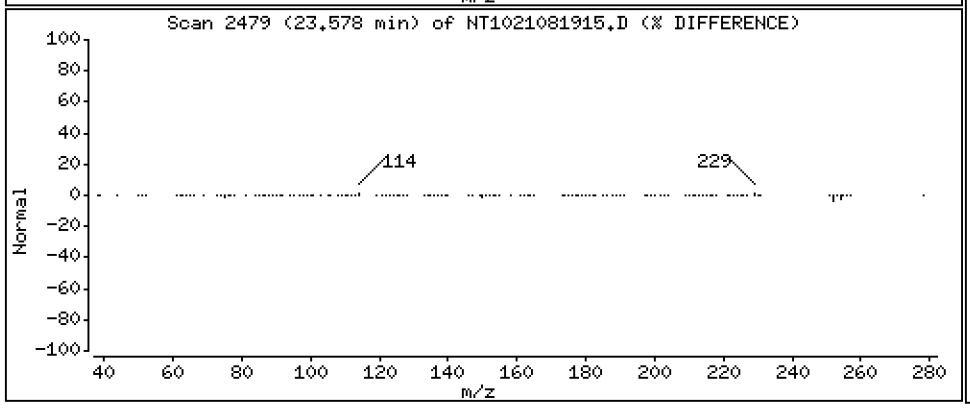
68 Benzo(a)anthracene

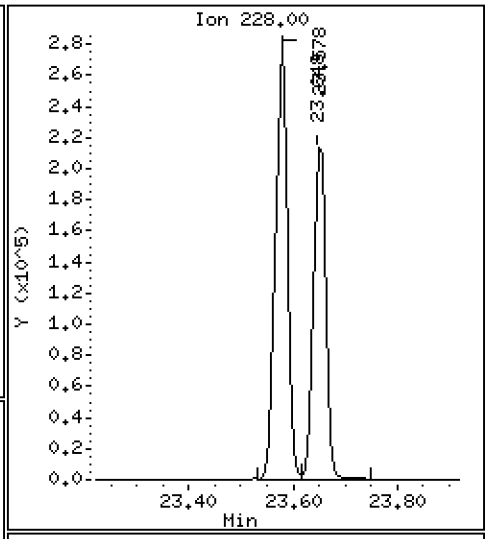
Concentration: 4.800 ug/mL

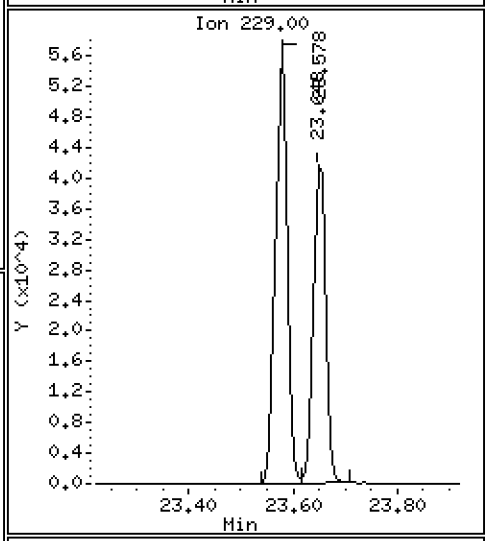


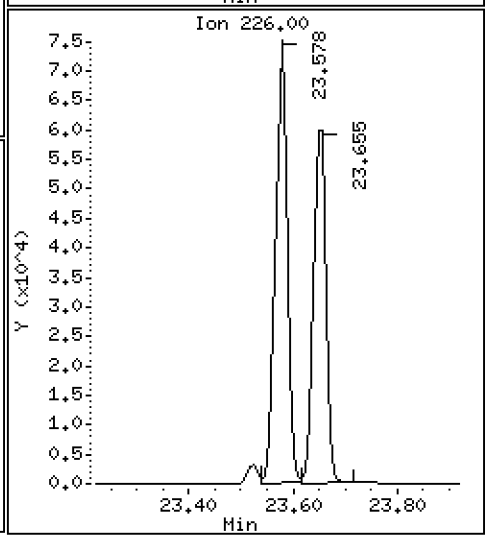












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

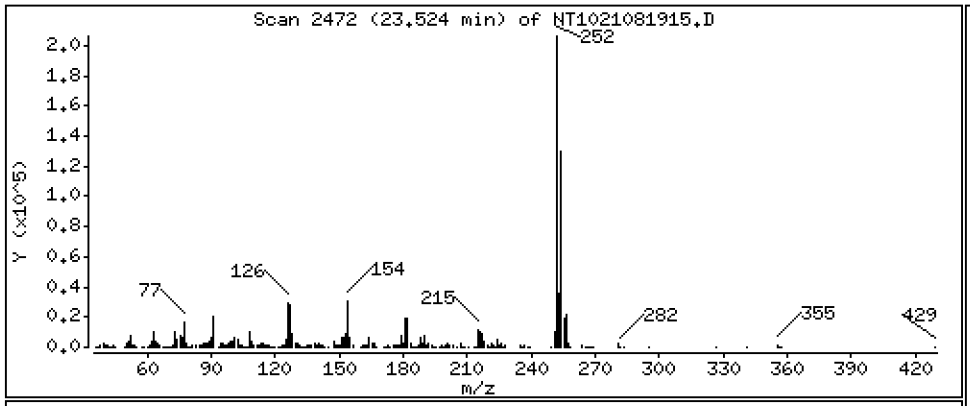
Operator: VTS

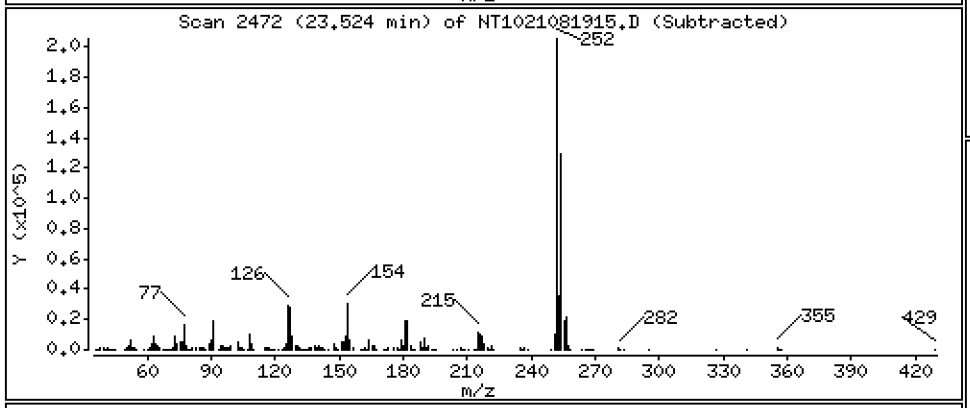
Column phase: ZB-5msi

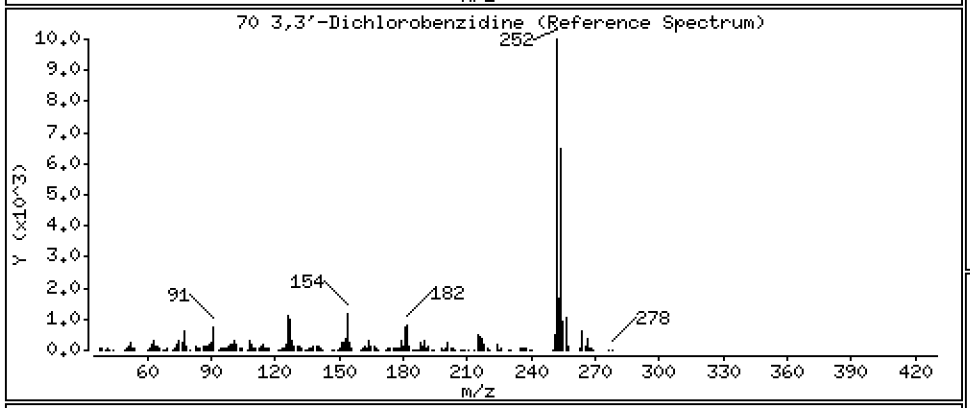
Column diameter: 0.25

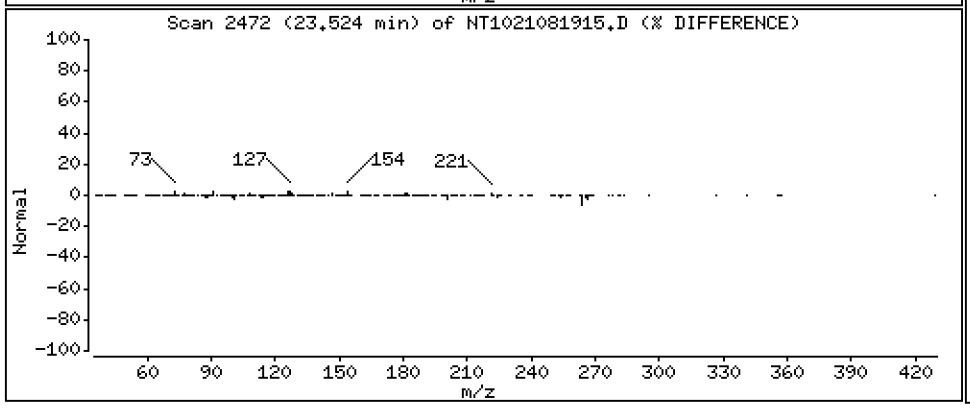
70 3,3'-Dichlorobenzidine

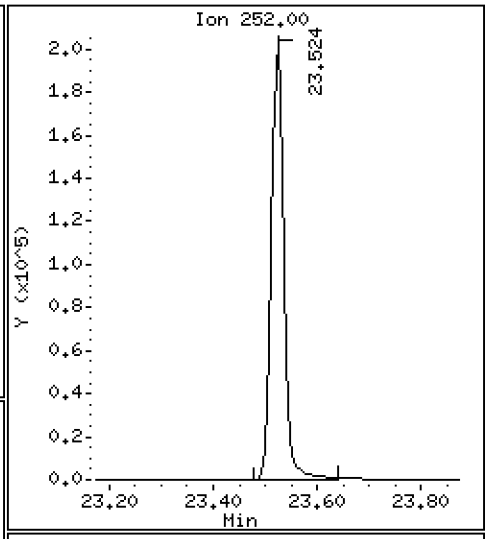
Concentration: 8.830 ug/mL

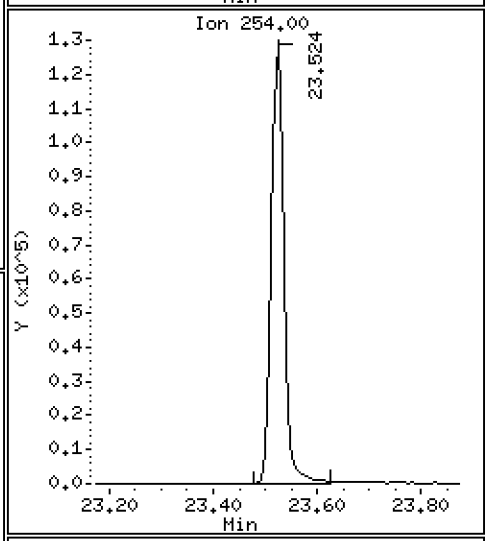


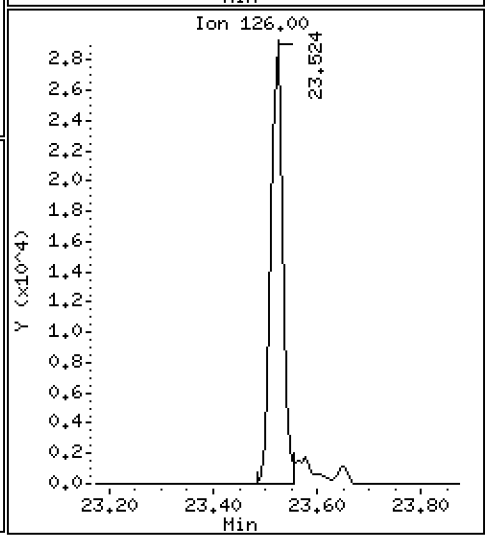












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

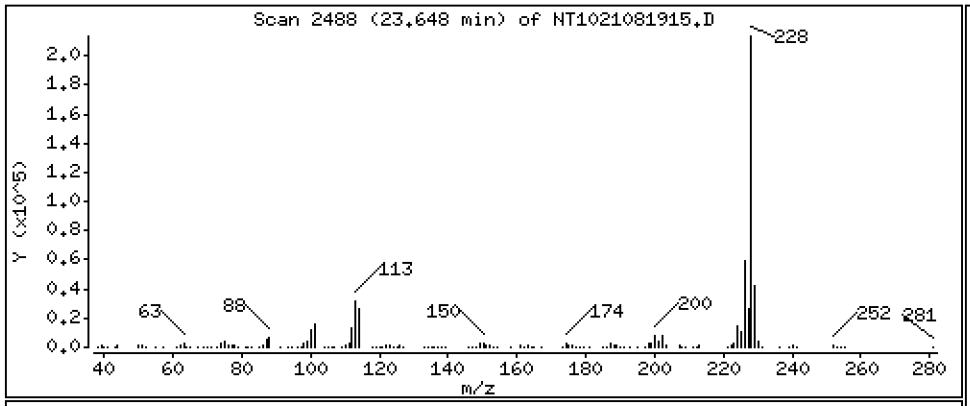
Operator: VTS

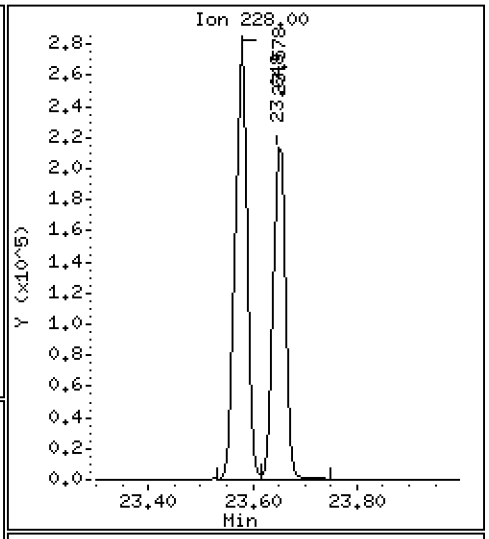
Column phase: ZB-5msi

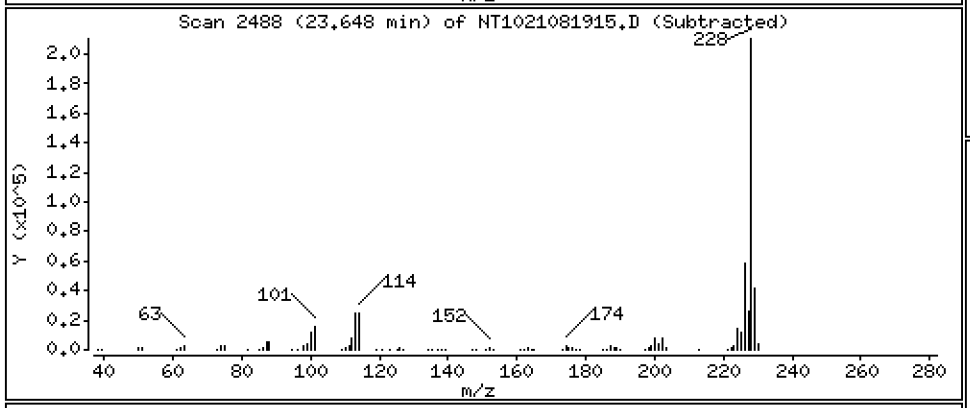
Column diameter: 0.25

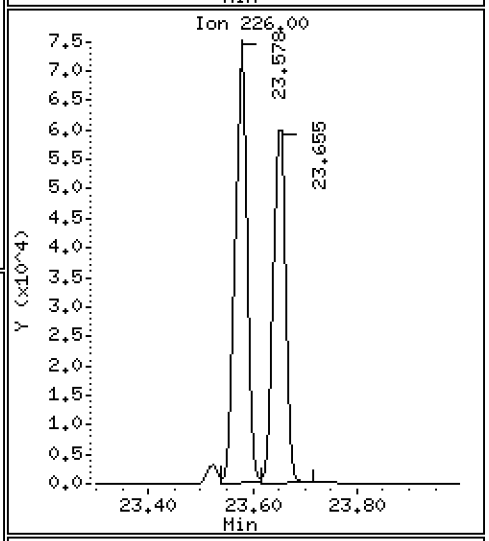
71 Chrysene

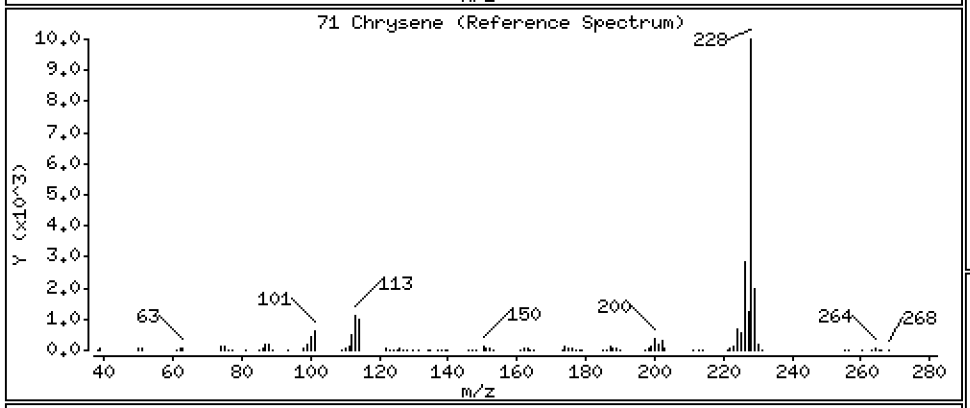
Concentration: 4.687 ug/mL

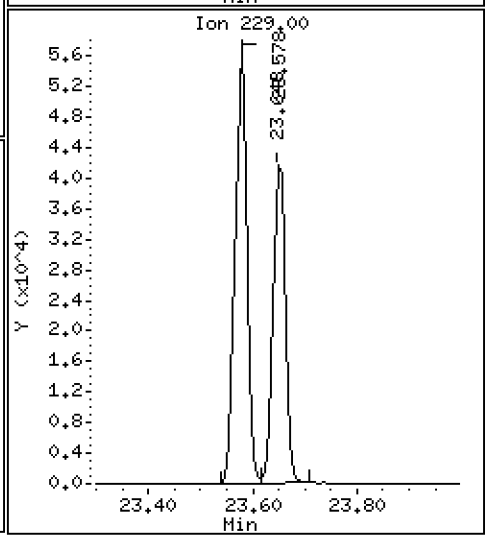


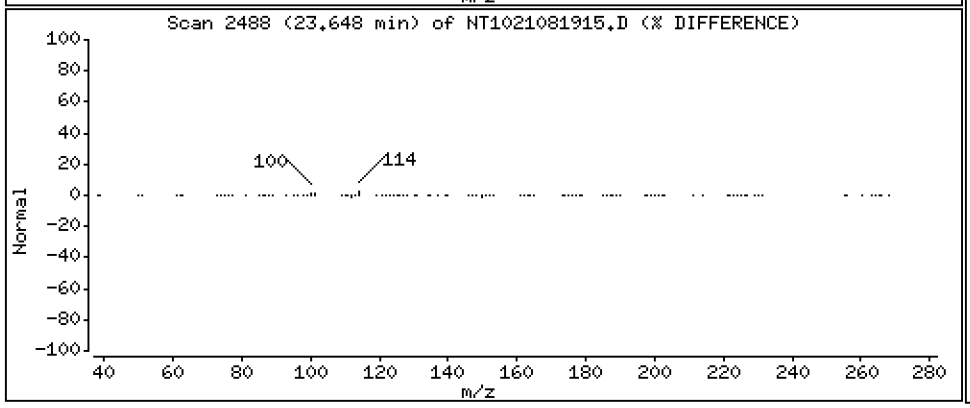












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

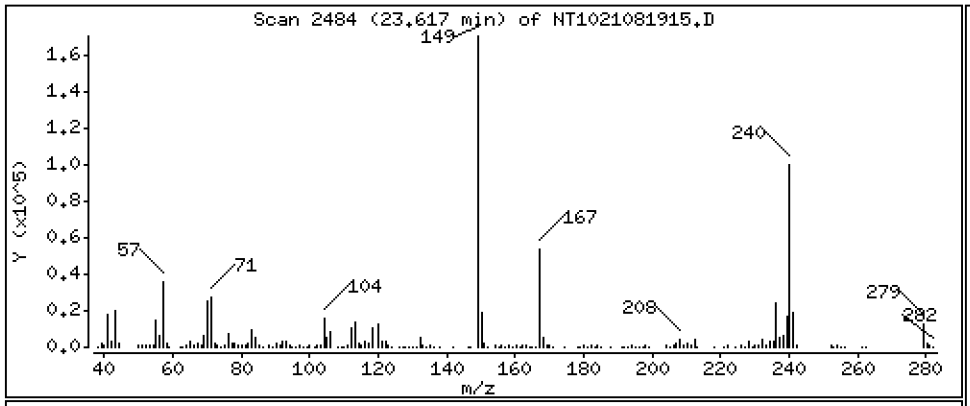
Operator: VTS

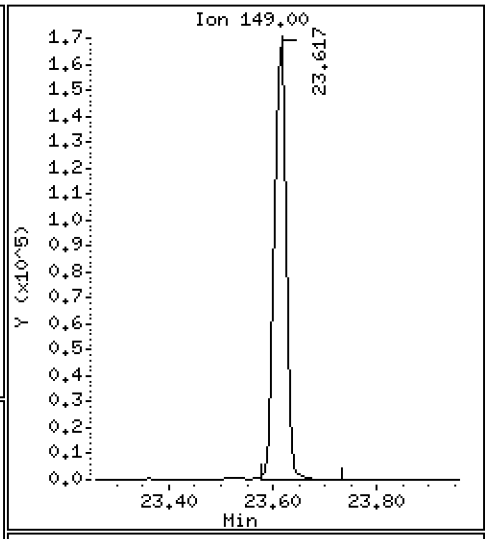
Column phase: ZB-5msi

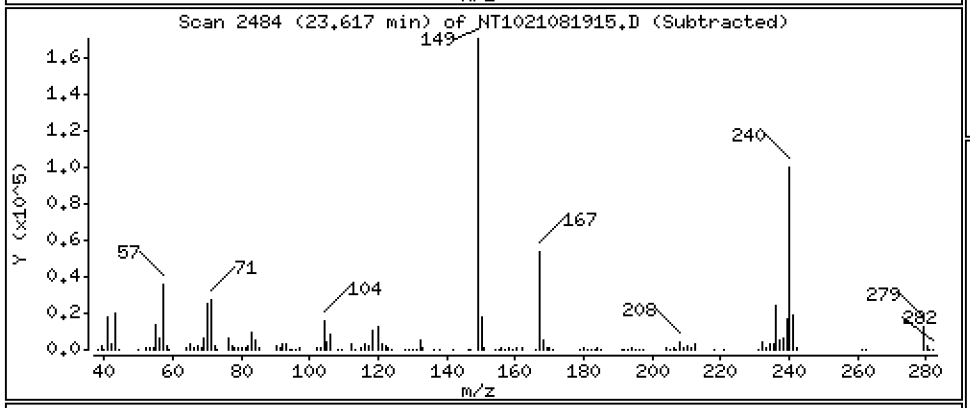
Column diameter: 0.25

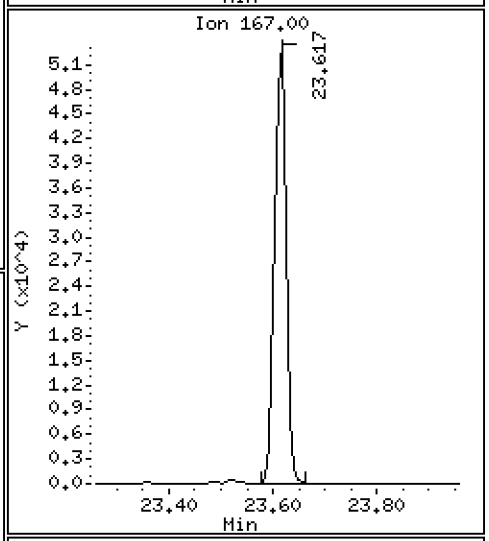
72 bis(2-Ethylhexyl)phthalate

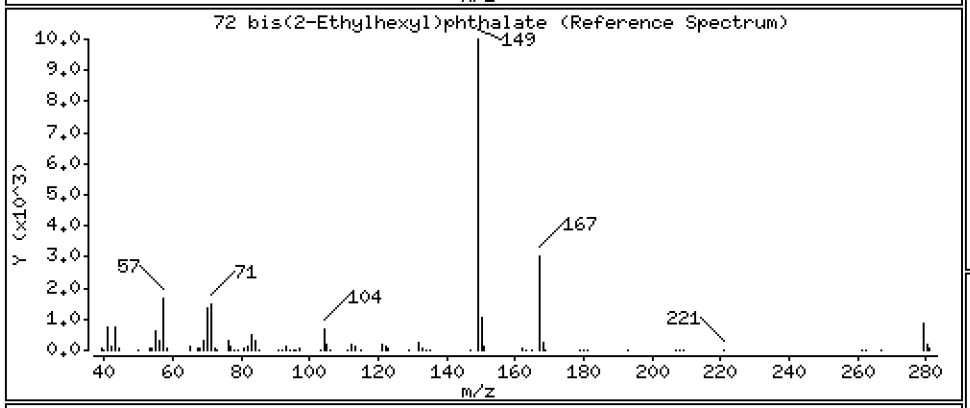
Concentration: 5.362 ug/mL

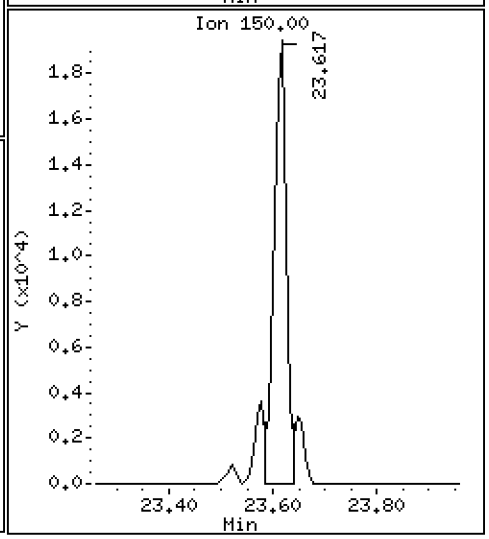


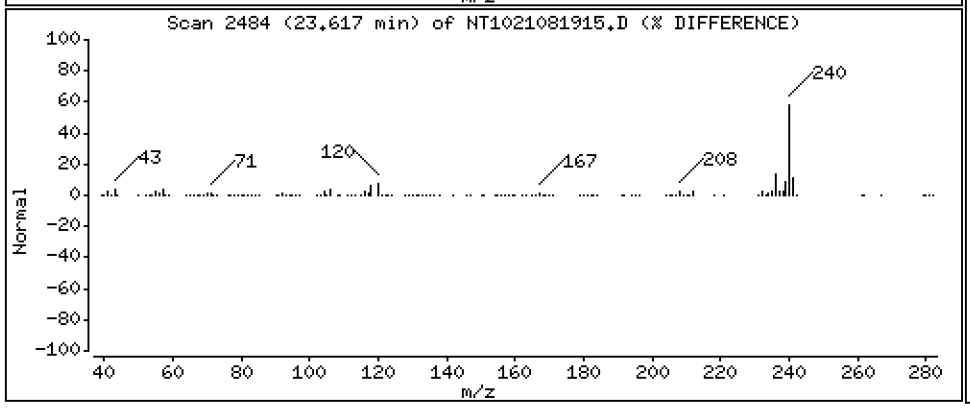












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

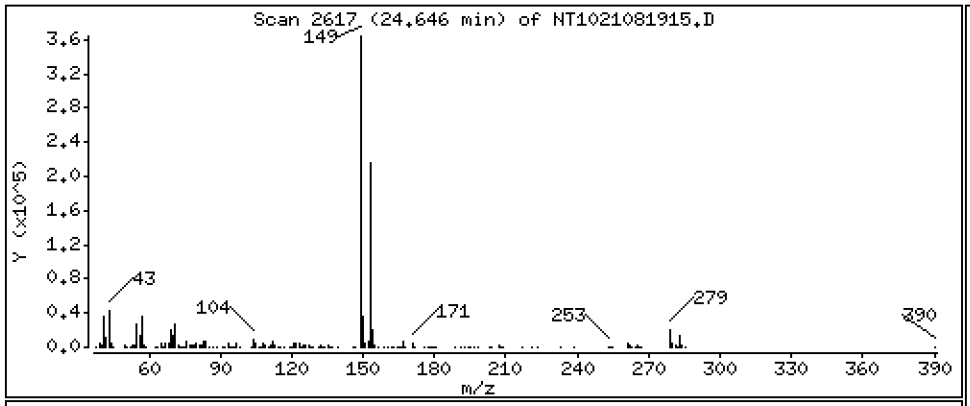
Operator: VTS

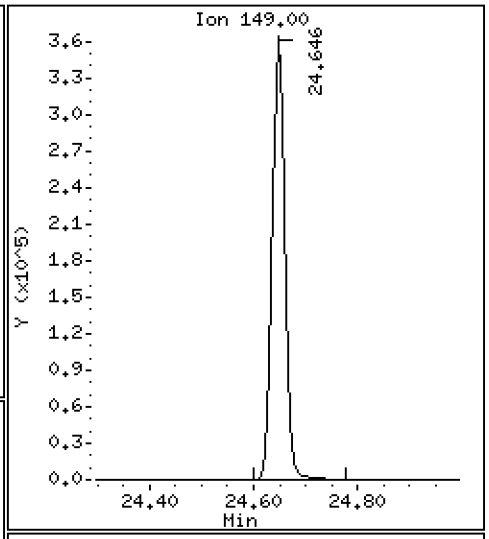
Column phase: ZB-5msi

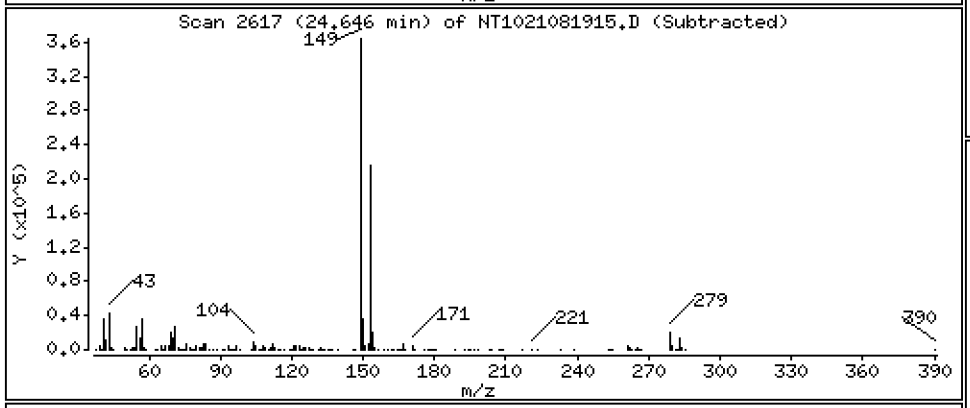
Column diameter: 0.25

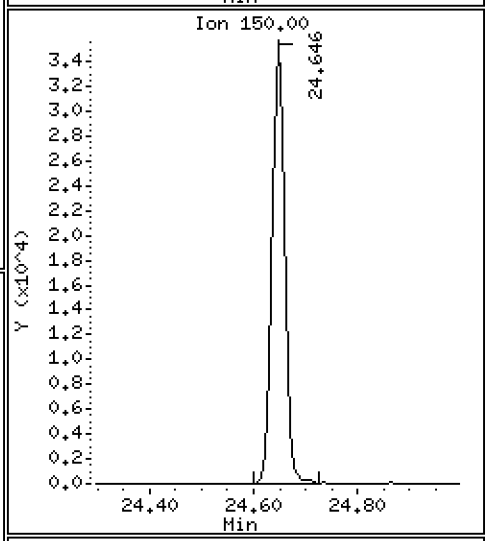
73 Di-n-octylphthalate

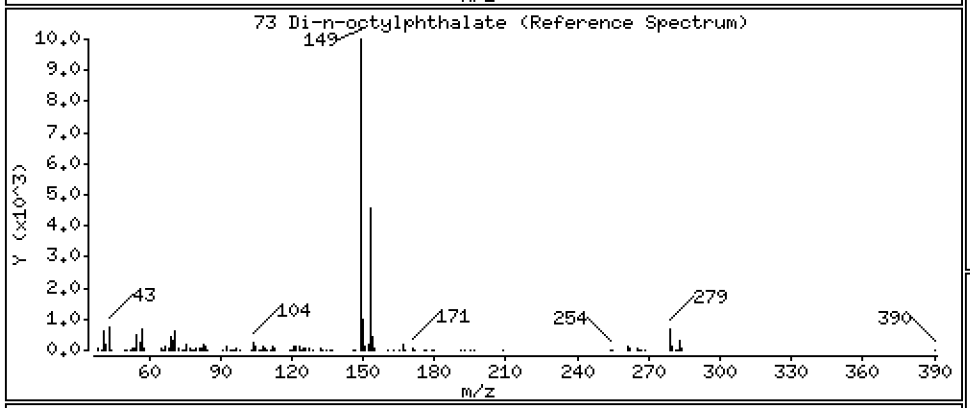
Concentration: 5.228 ug/mL

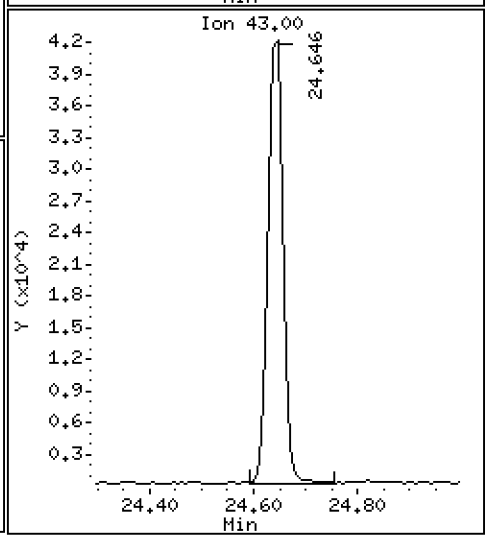


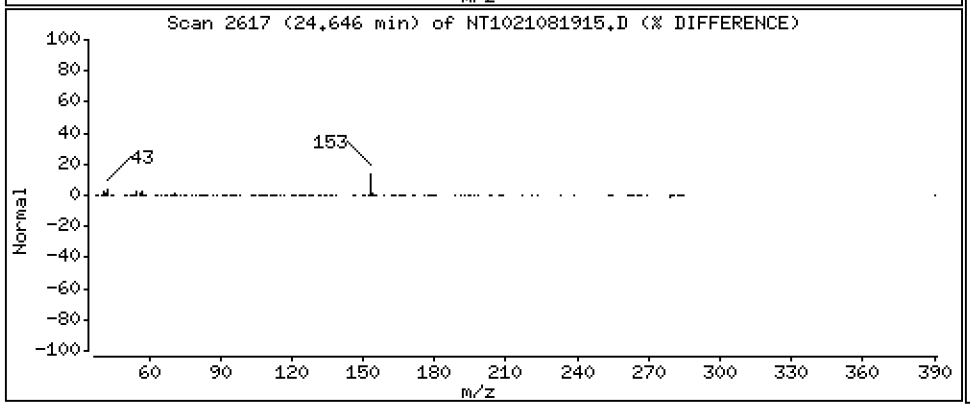












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

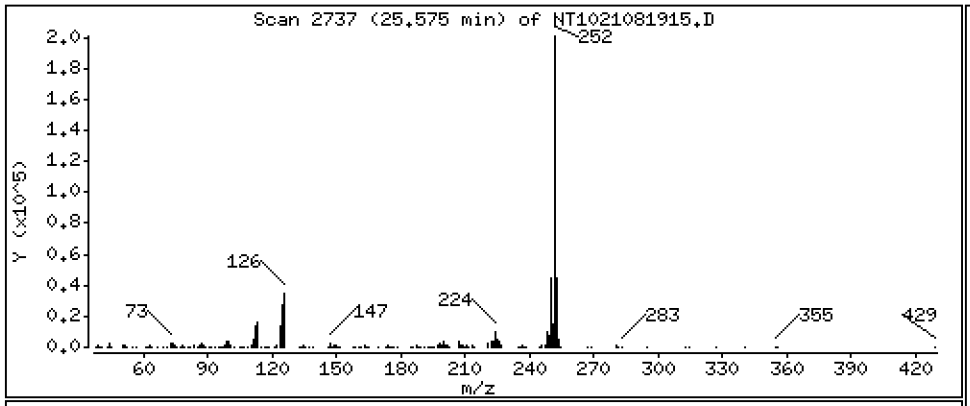
Operator: VTS

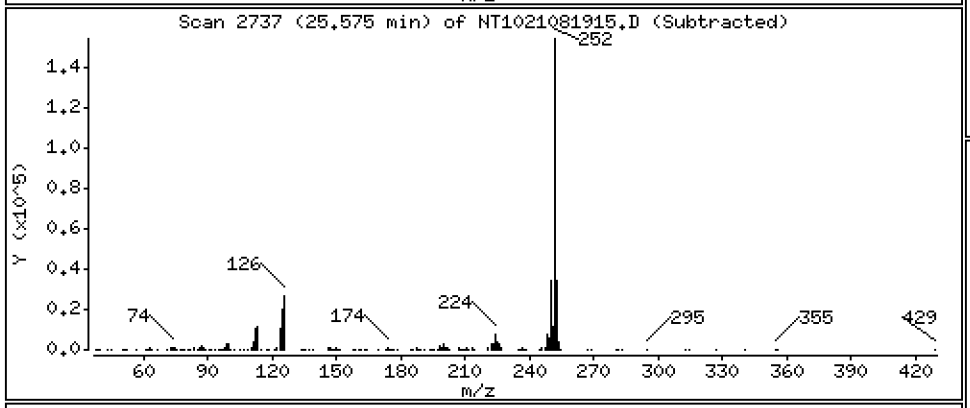
Column phase: ZB-5msi

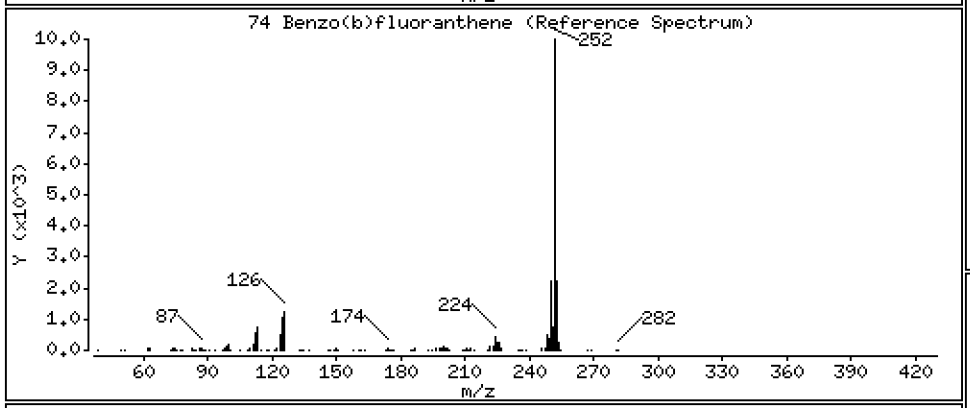
Column diameter: 0.25

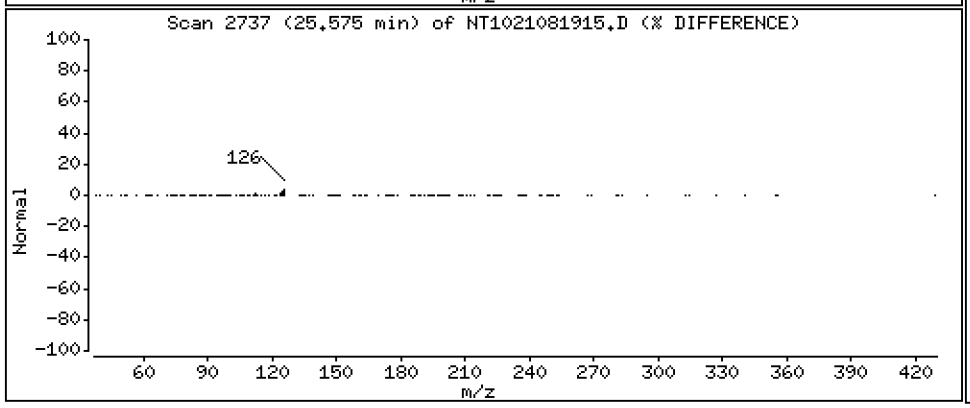
74 Benzo(b)fluoranthene

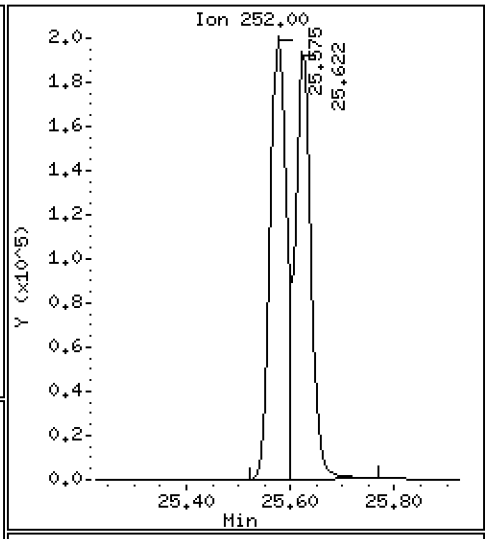
Concentration: 4.877 ug/mL

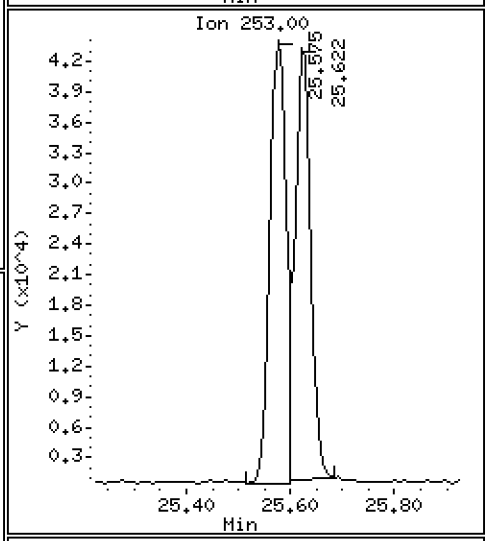


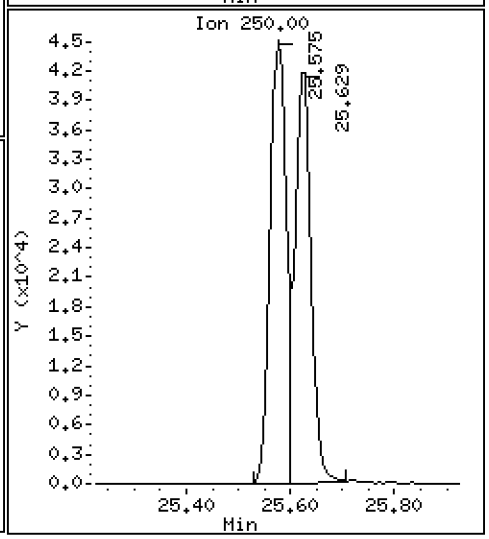












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

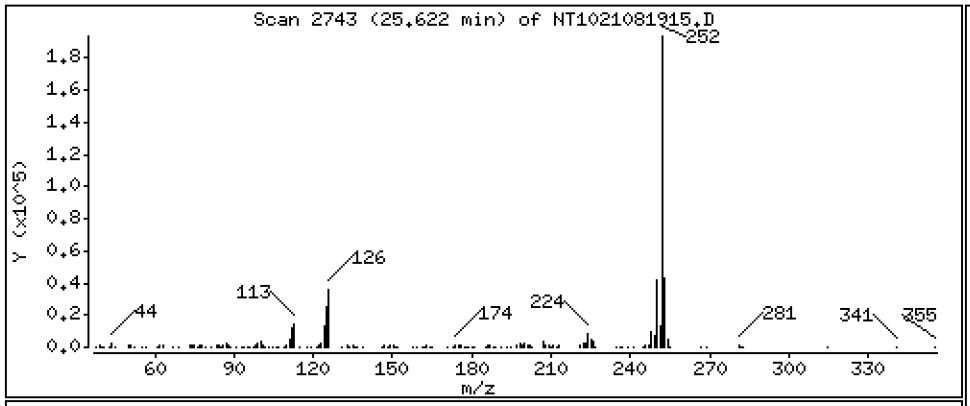
Operator: VTS

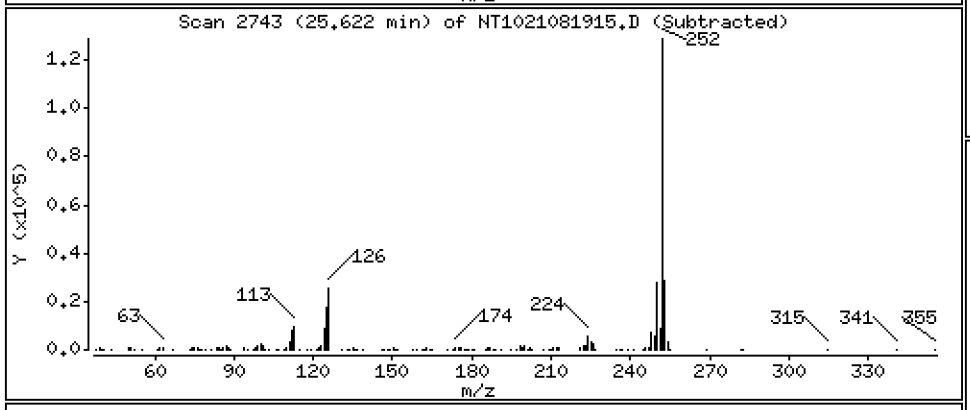
Column phase: ZB-5msi

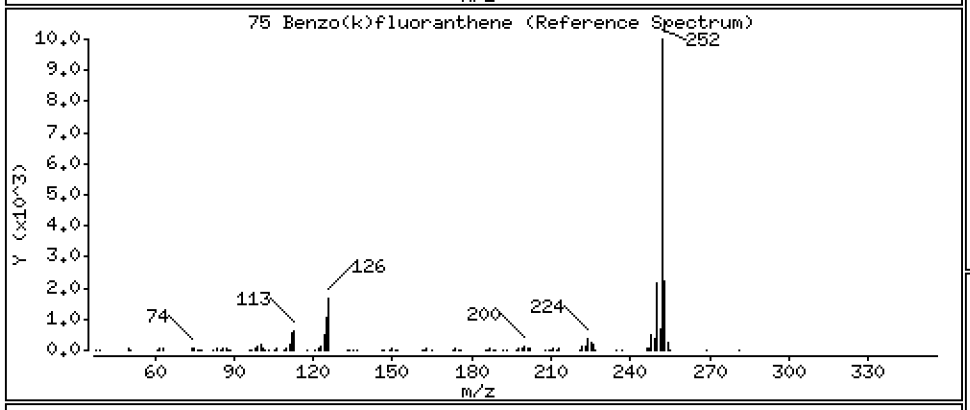
Column diameter: 0.25

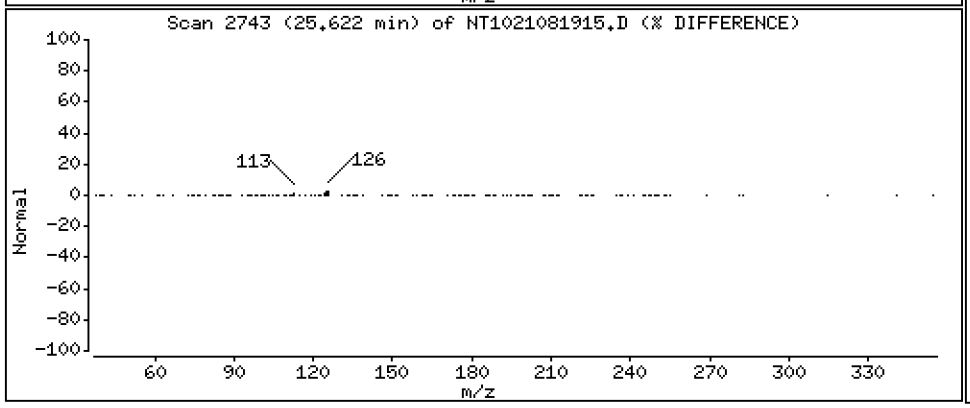
75 Benzo(k)fluoranthene

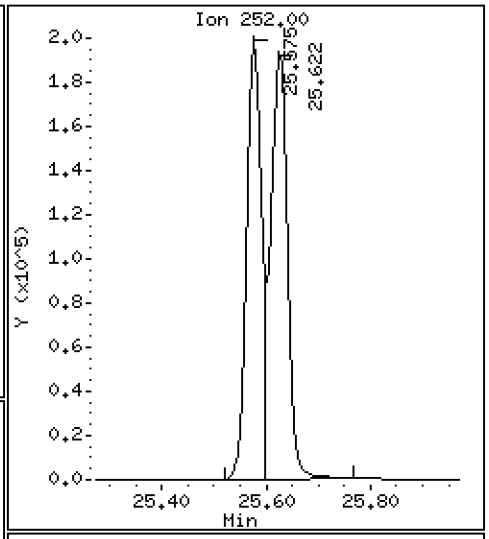
Concentration: 5.195 ug/mL

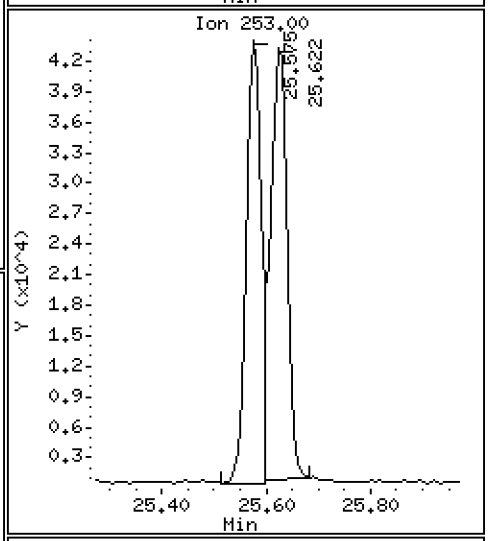


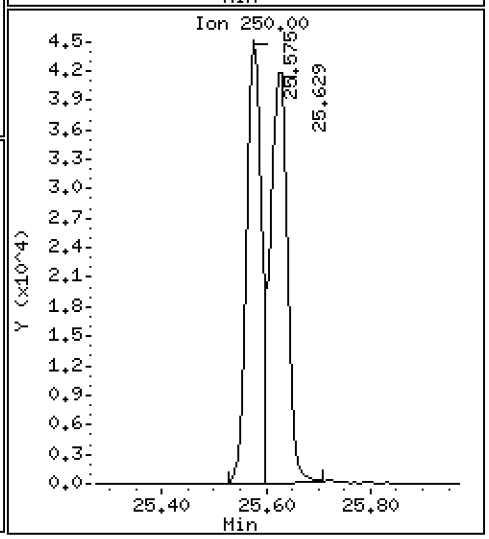












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

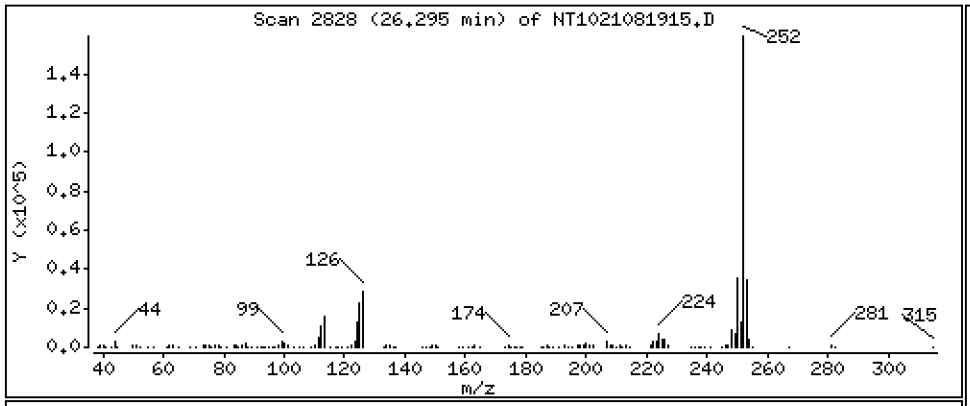
Operator: VTS

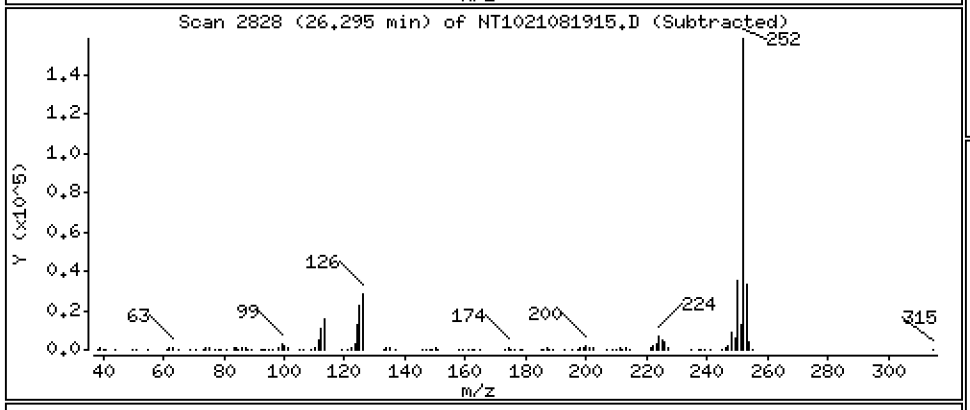
Column phase: ZB-5msi

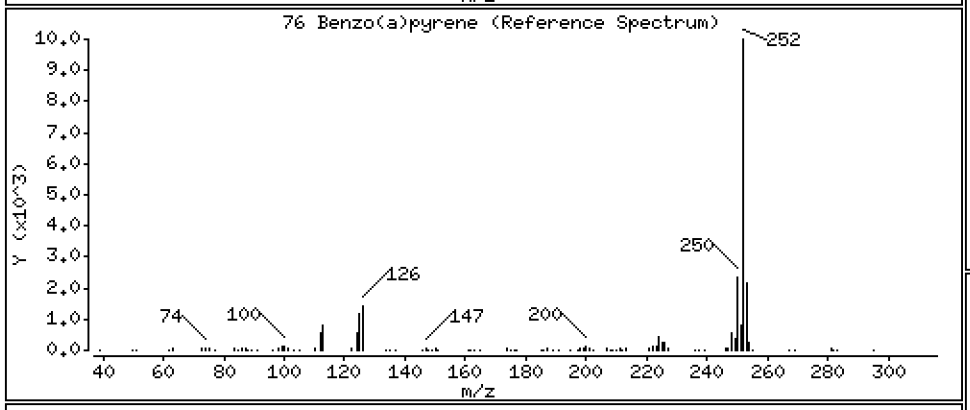
Column diameter: 0.25

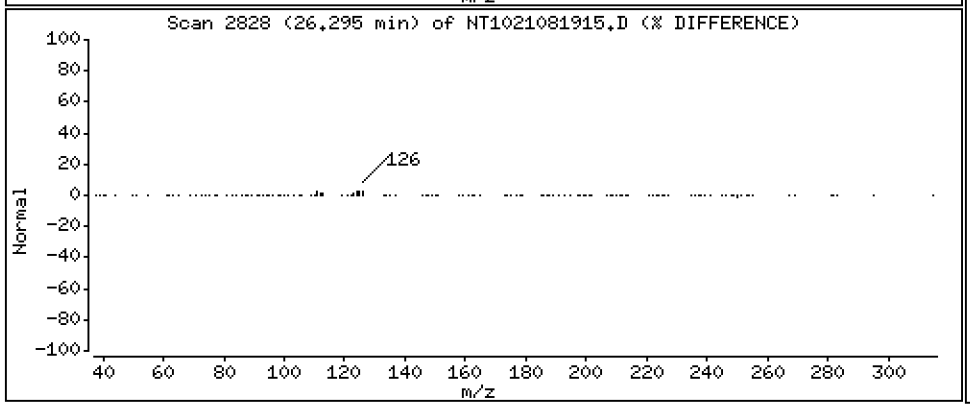
76 Benzo(a)pyrene

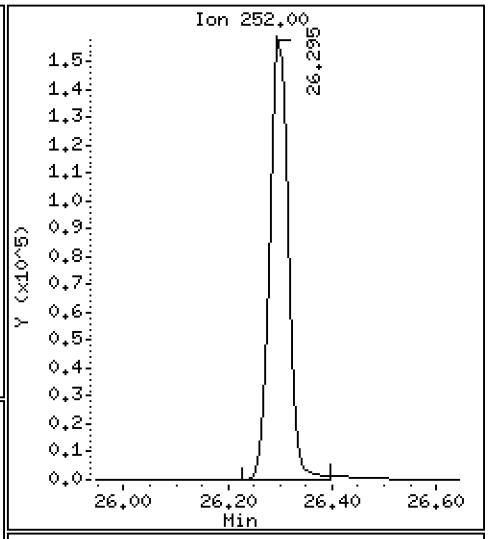
Concentration: 4.980 ug/mL

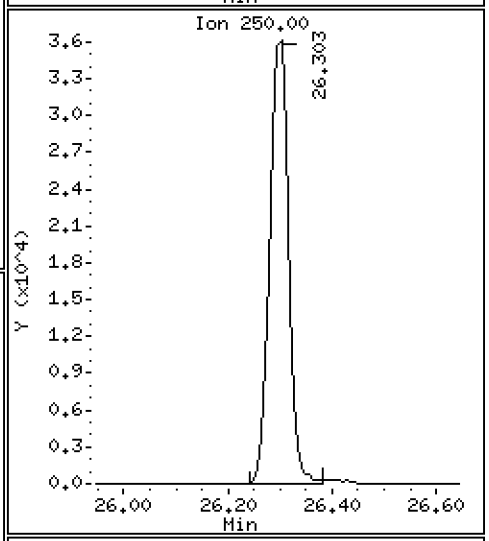


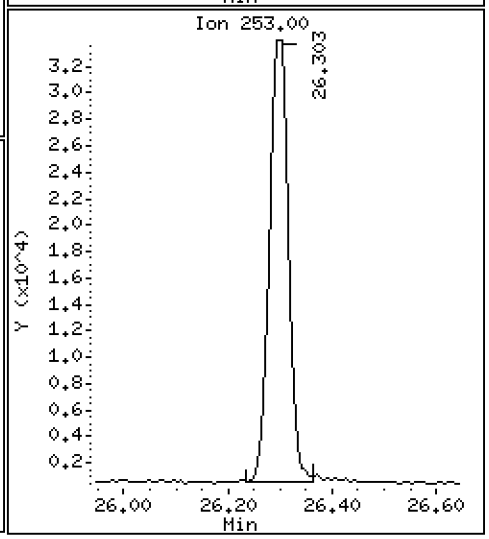












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

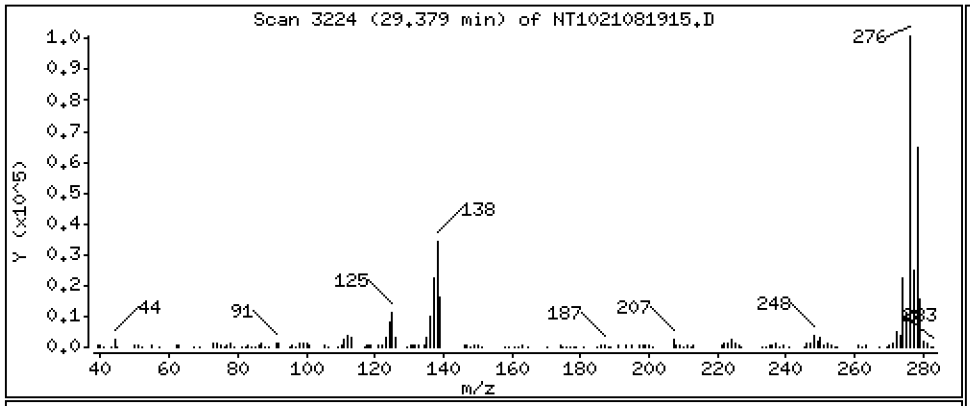
Operator: VTS

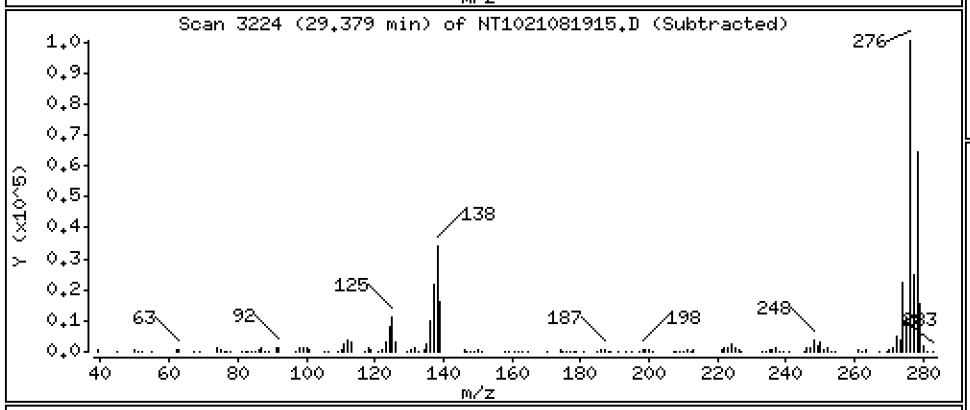
Column phase: ZB-5msi

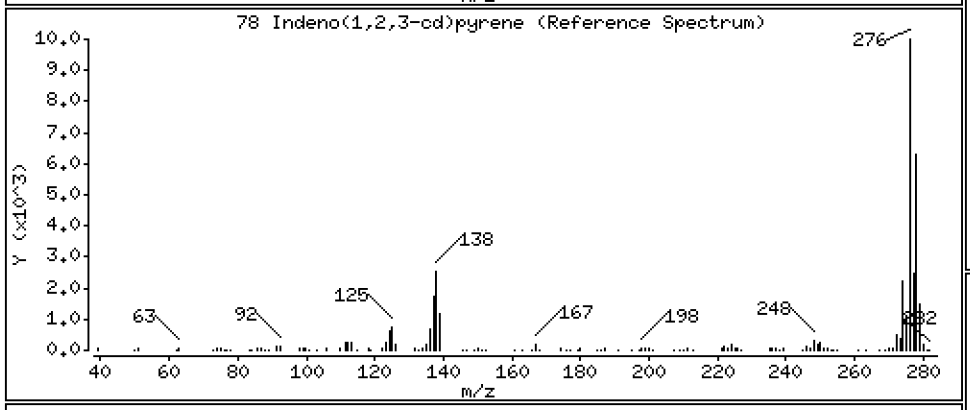
Column diameter: 0.25

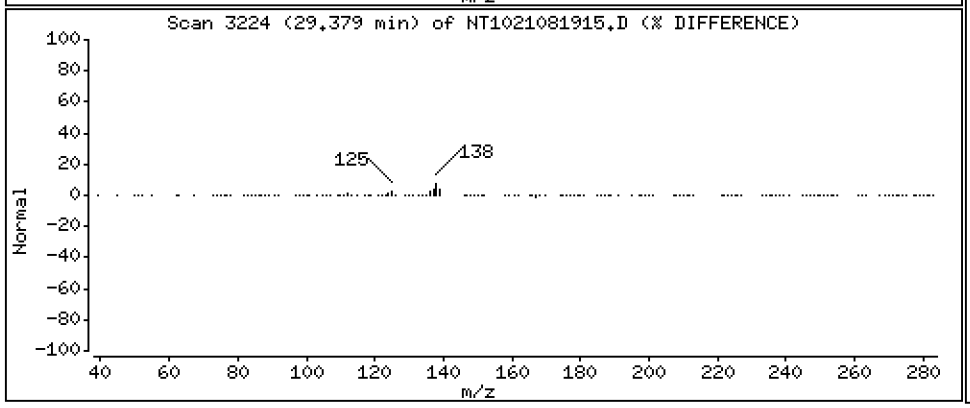
78 Indeno(1,2,3-cd)pyrene

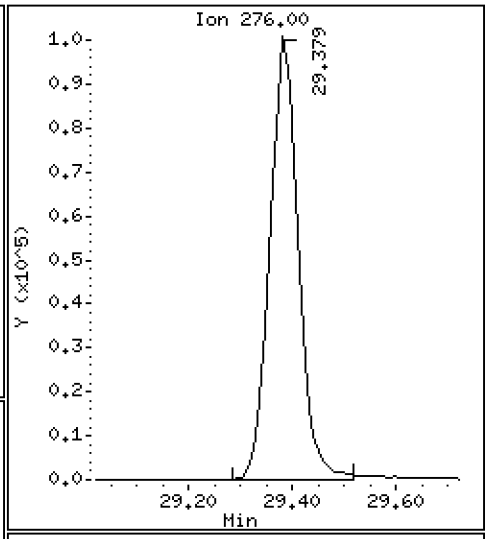
Concentration: 4.855 ug/mL

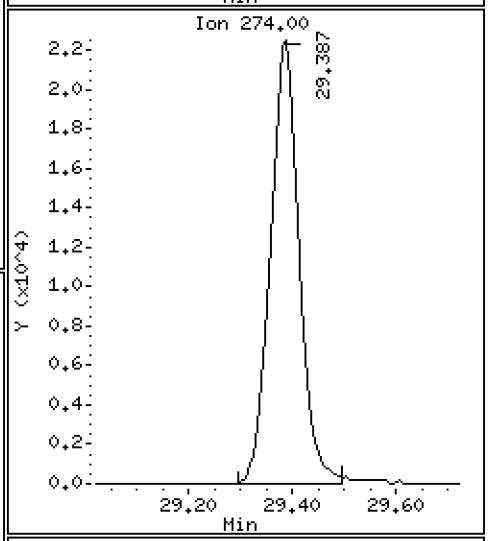


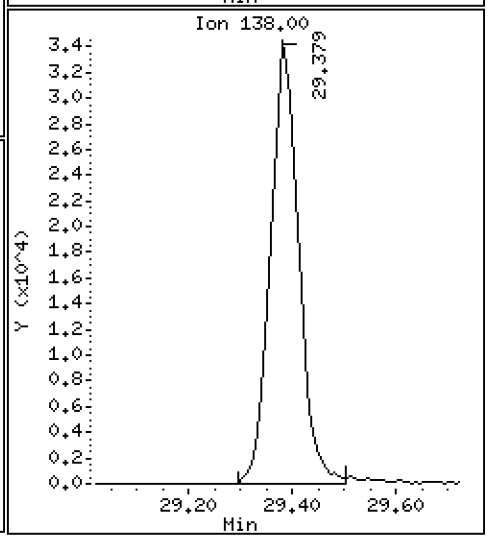












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

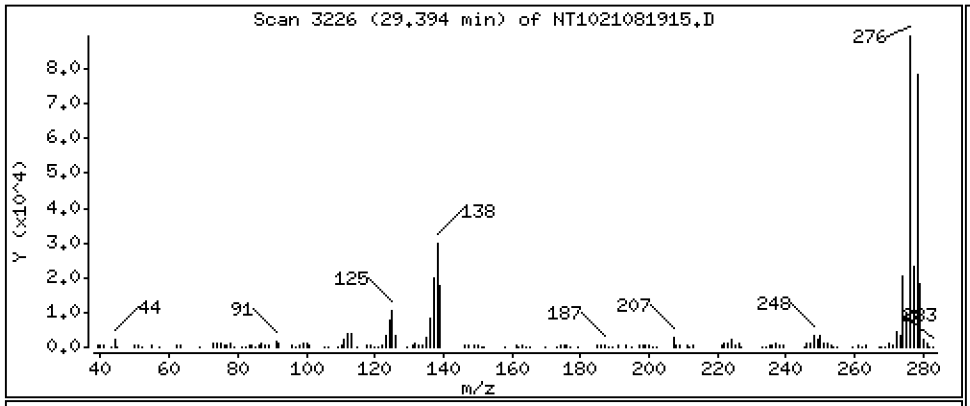
Operator: VTS

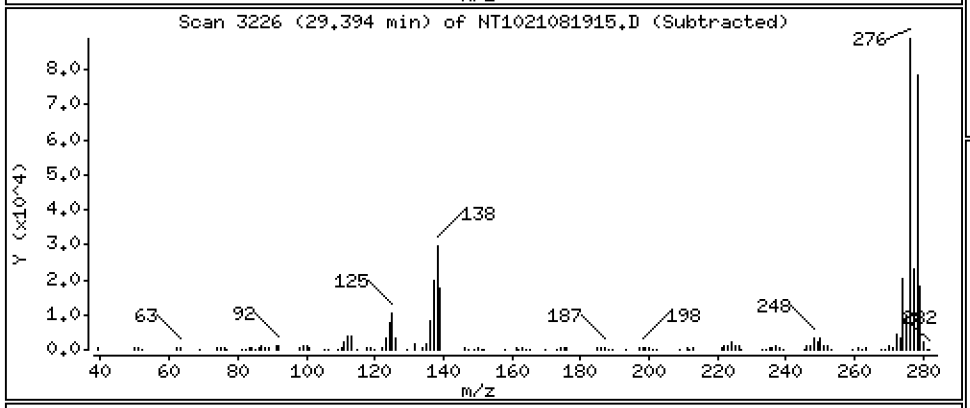
Column phase: ZB-5msi

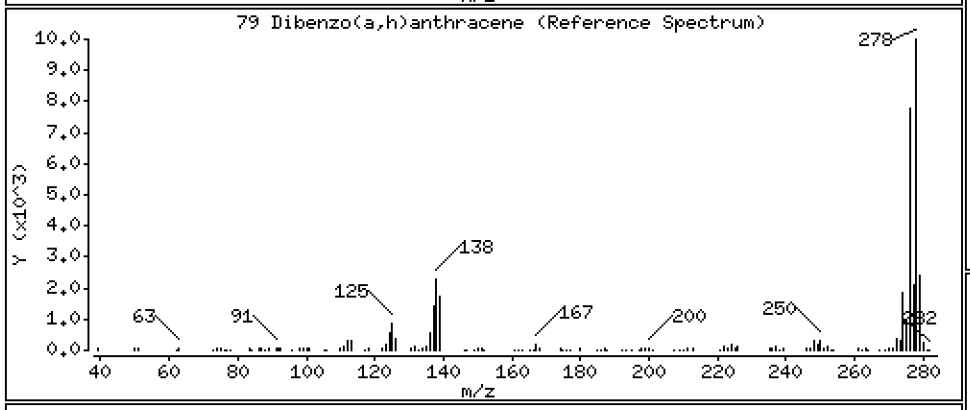
Column diameter: 0.25

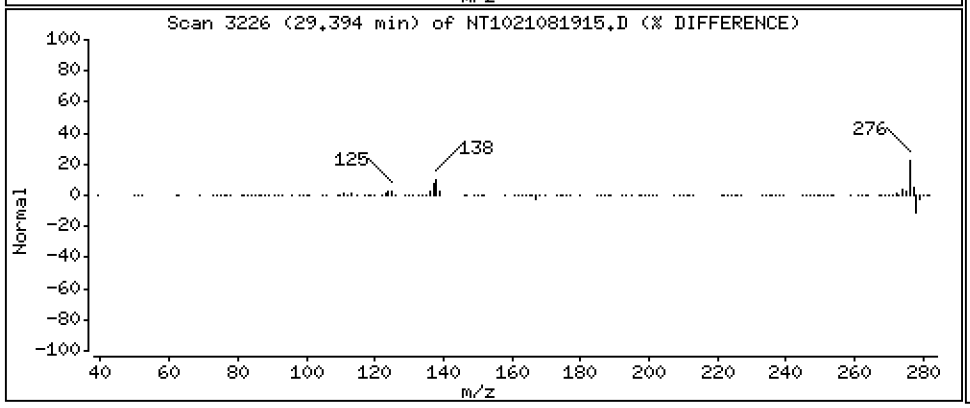
79 Dibenzo(a,h)anthracene

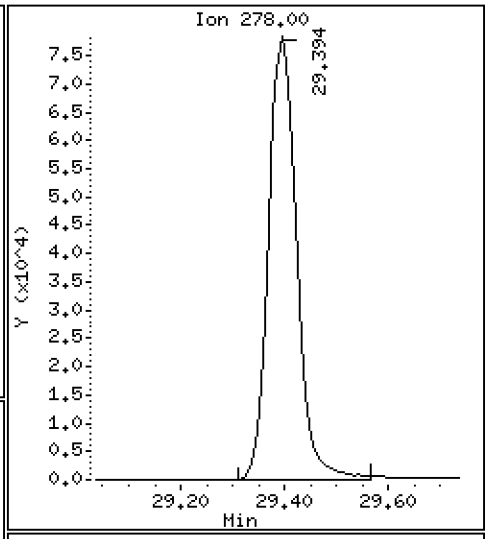
Concentration: 4.838 ug/mL

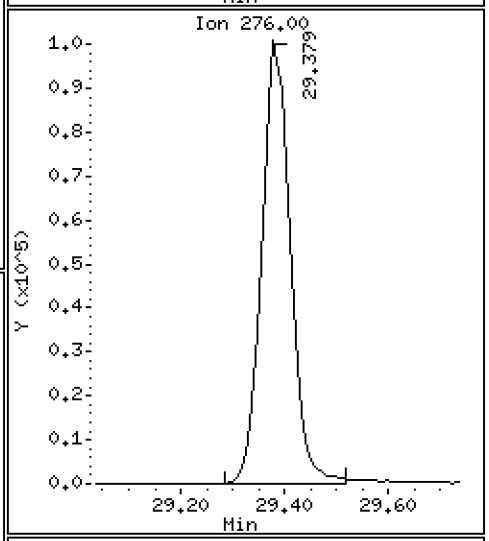


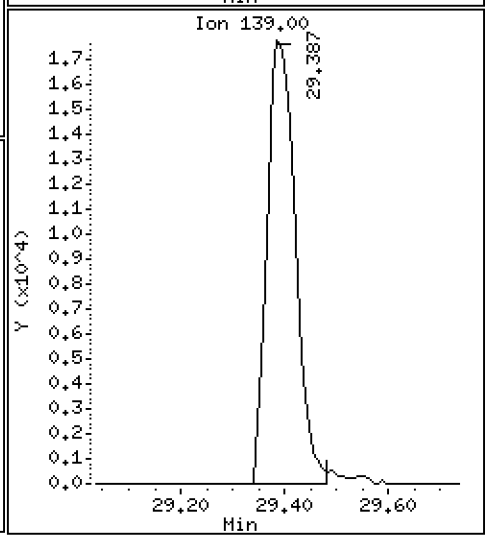












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

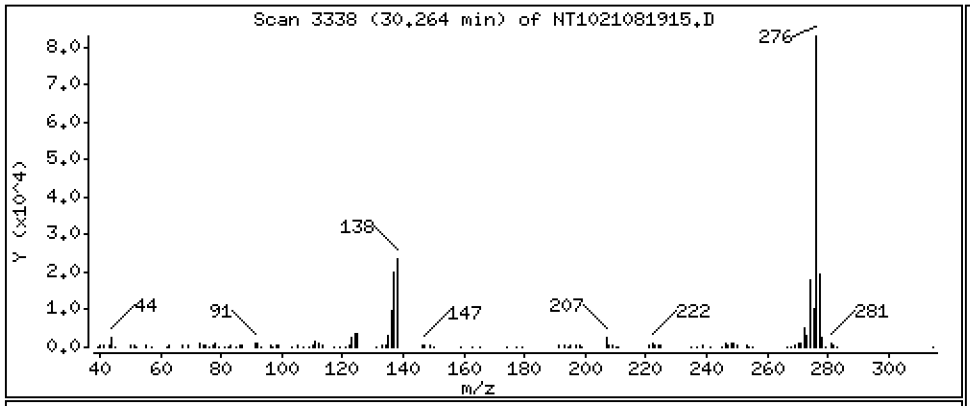
Operator: VTS

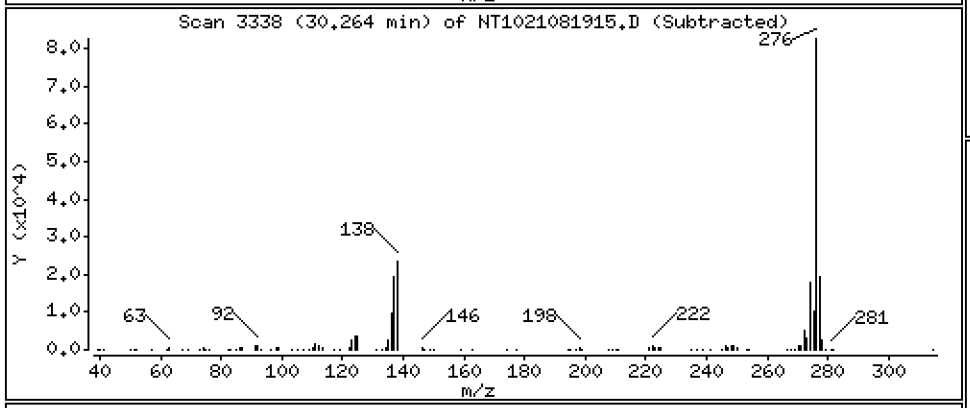
Column phase: ZB-5msi

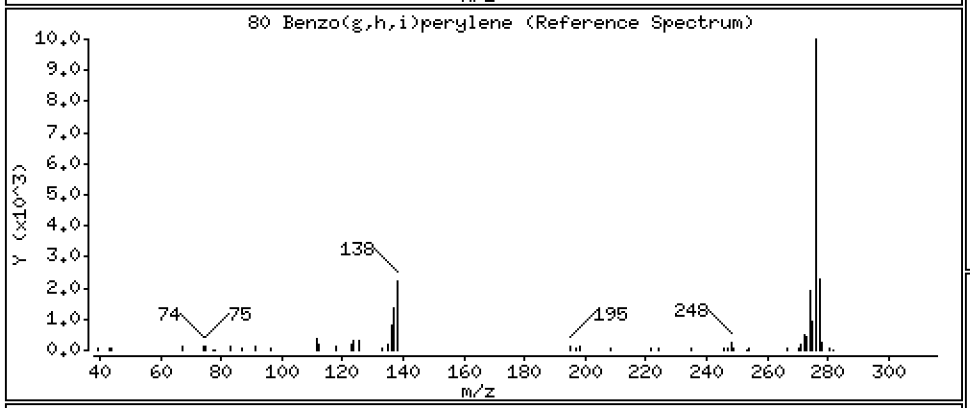
Column diameter: 0.25

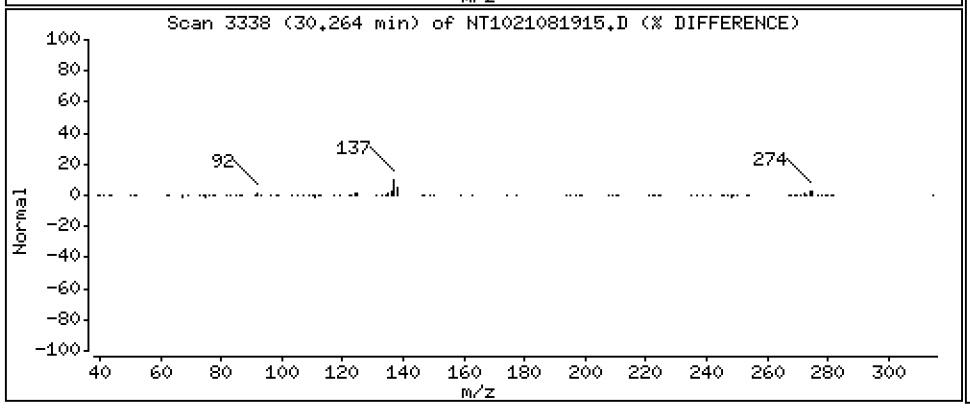
80 Benzo(g,h,i)perylene

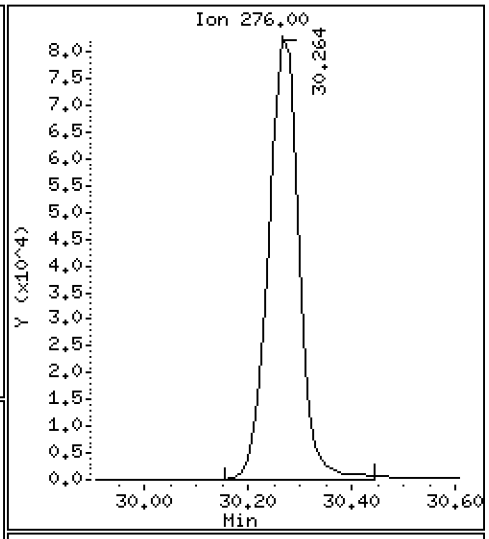
Concentration: 4.923 ug/mL

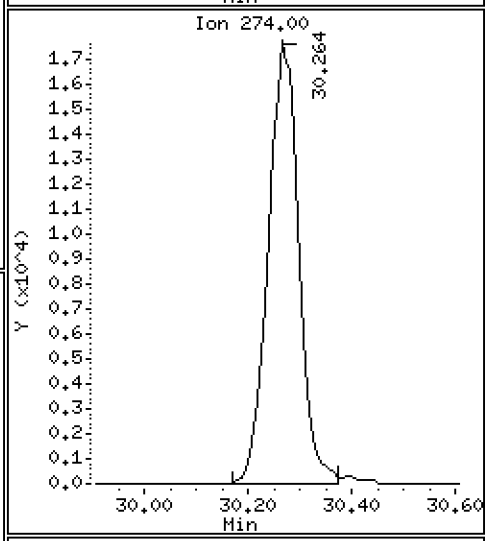


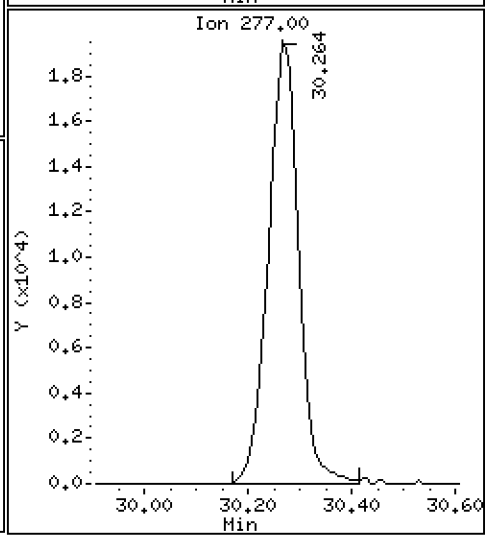












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

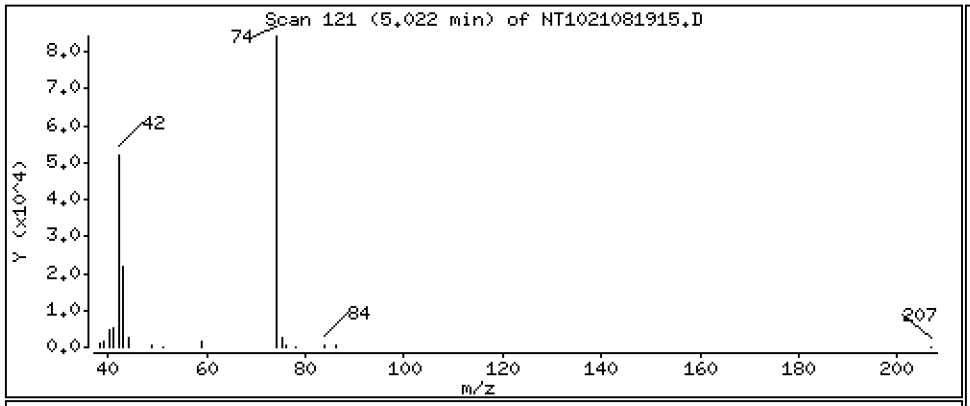
Operator: VTS

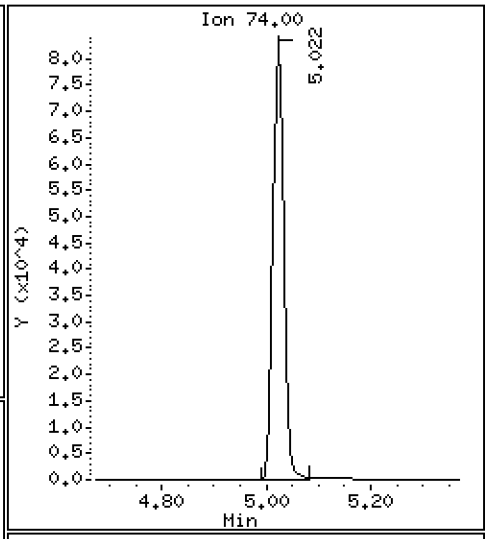
Column phase: ZB-5msi

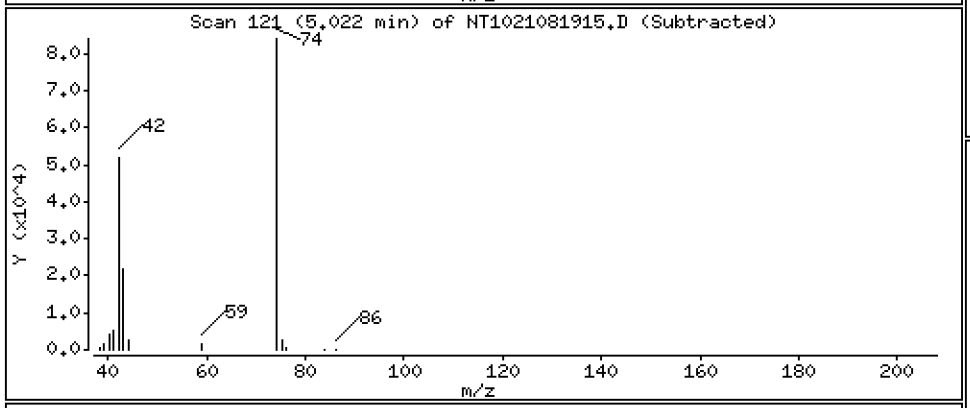
Column diameter: 0.25

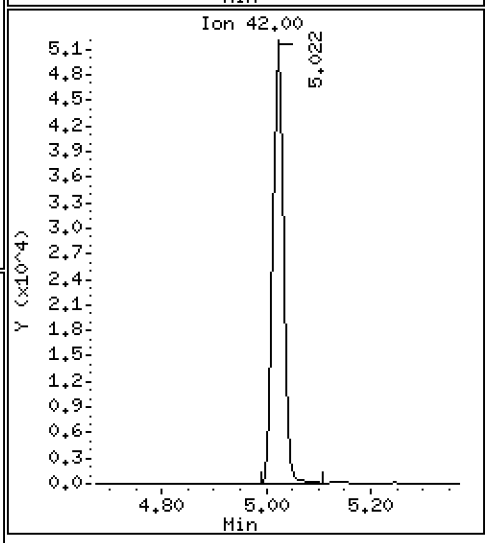
90 N-Nitrosodimethylamine

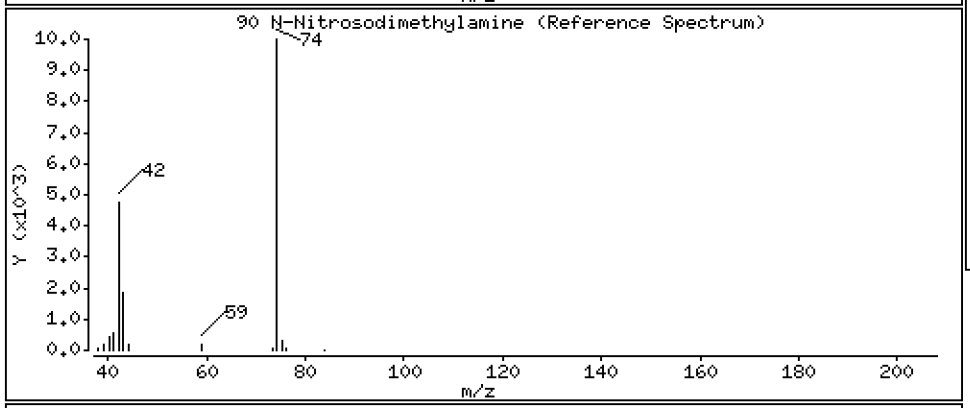
Concentration: 6.037 ug/mL

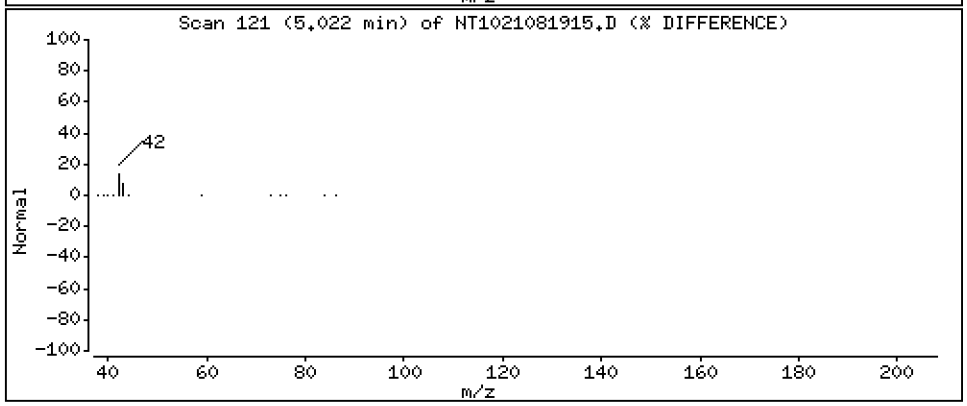












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

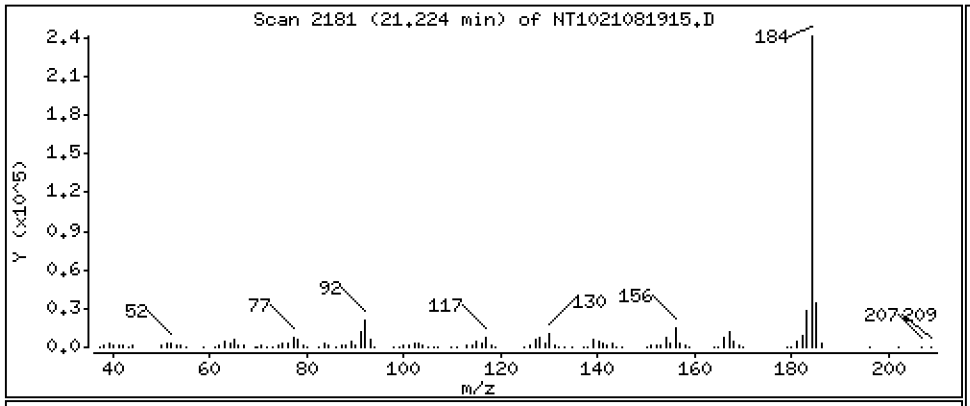
Operator: VTS

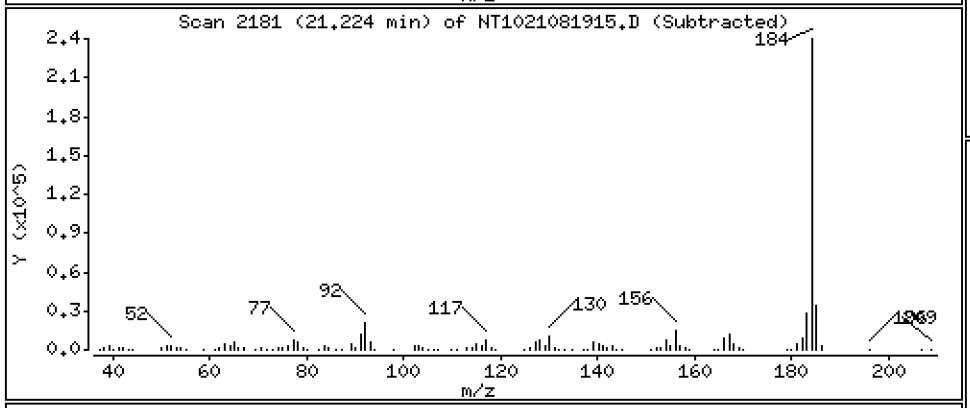
Column phase: ZB-5msi

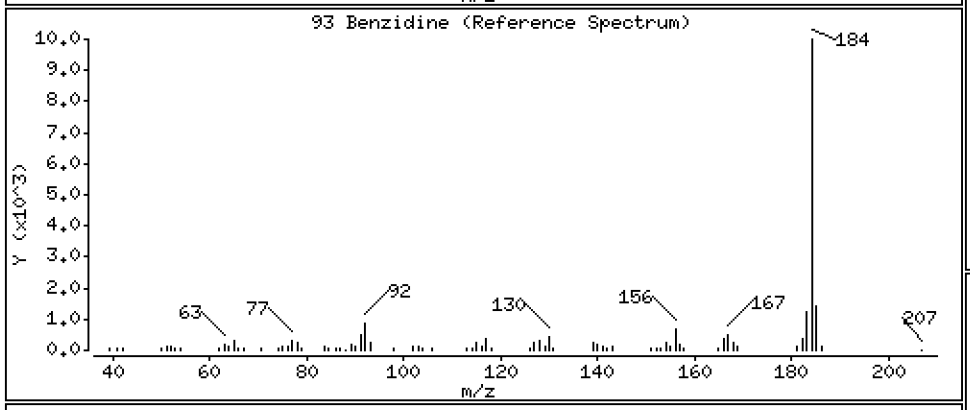
Column diameter: 0.25

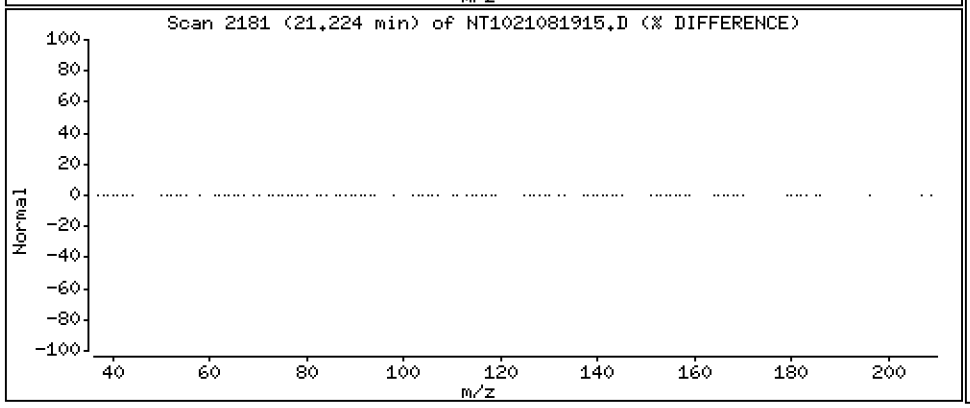
93 Benzidine

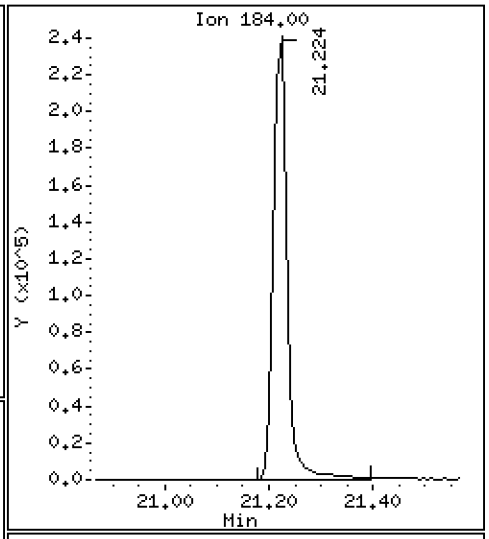
Concentration: 8.480 ug/mL

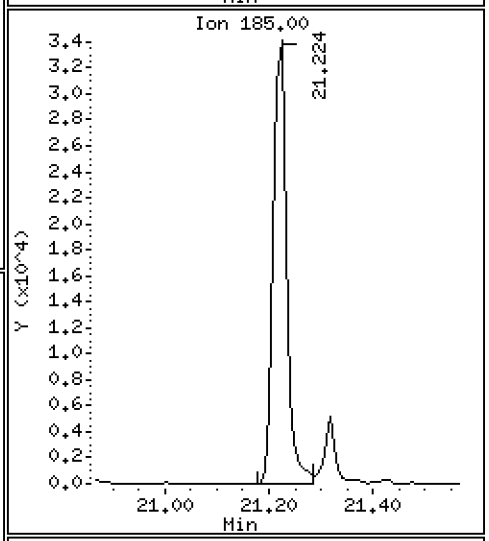


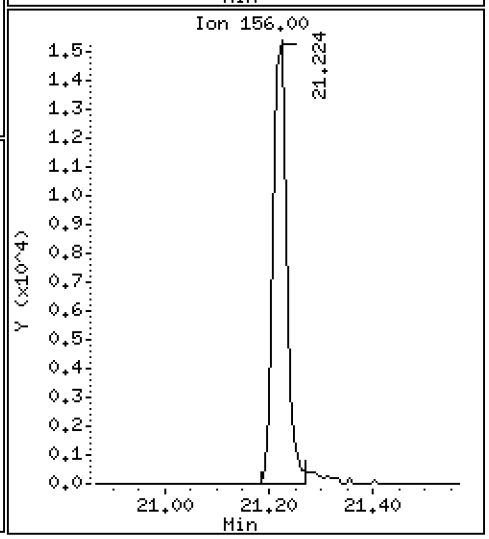












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

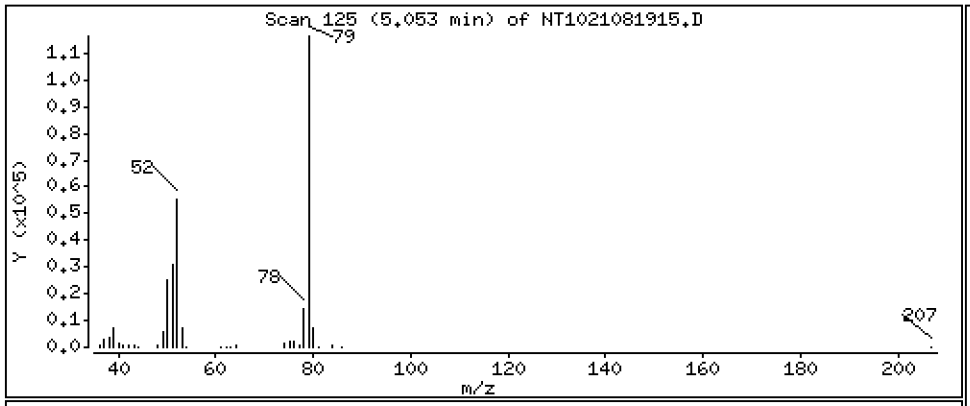
Operator: VTS

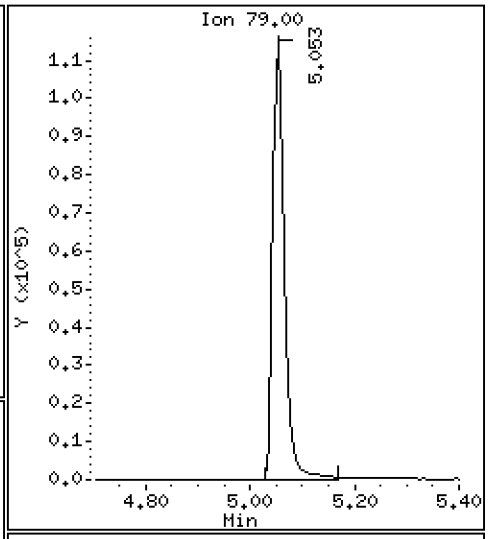
Column phase: ZB-5msi

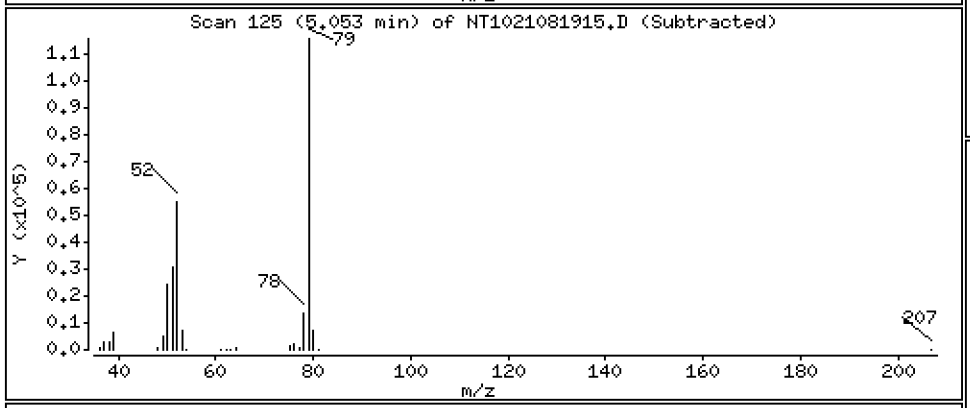
Column diameter: 0.25

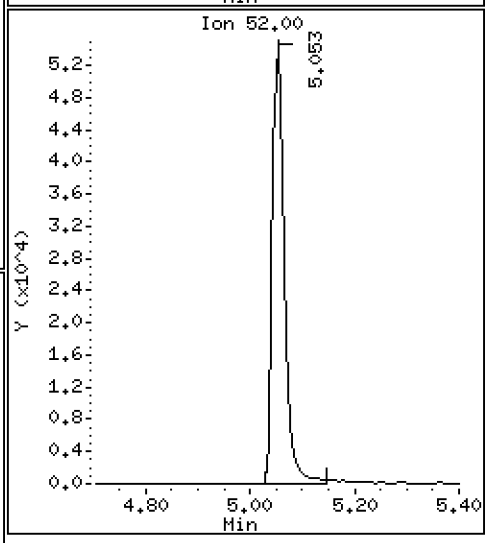
103 Pyridine

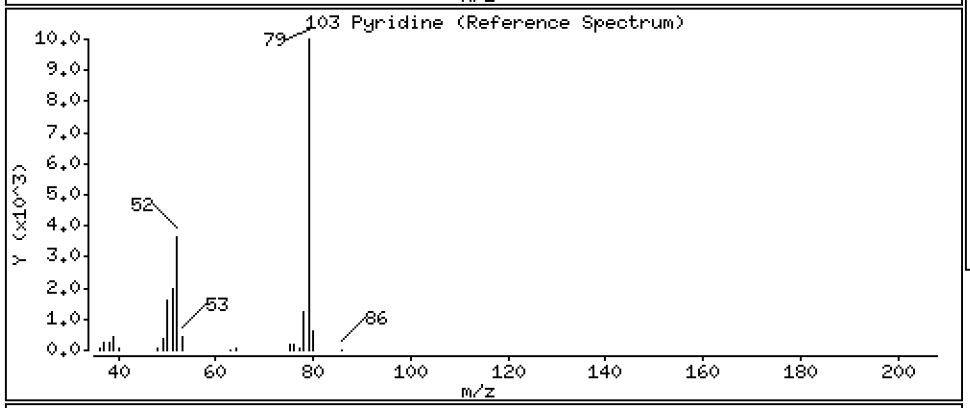
Concentration: 2.866 ug/mL

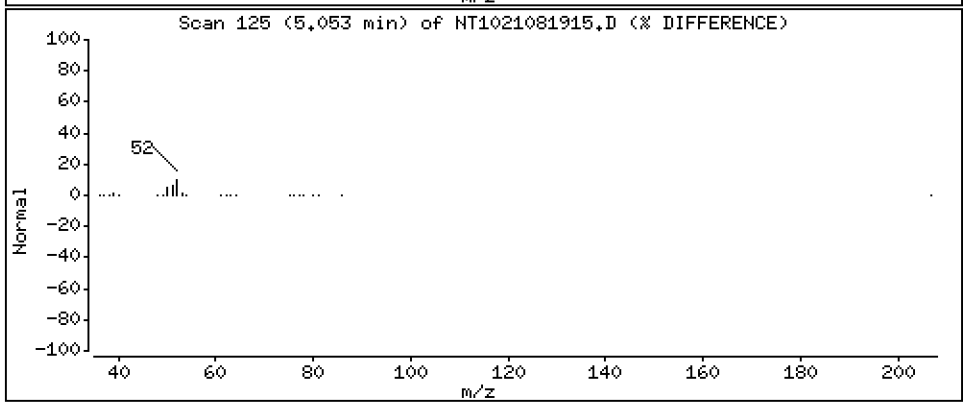












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

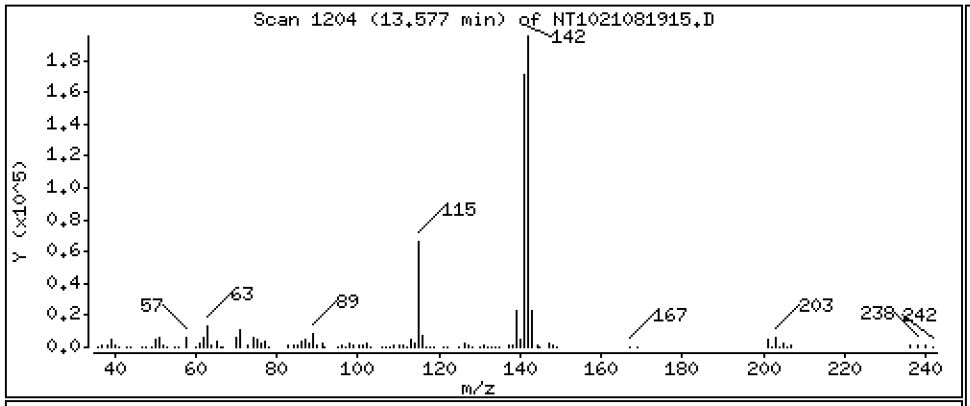
Operator: VTS

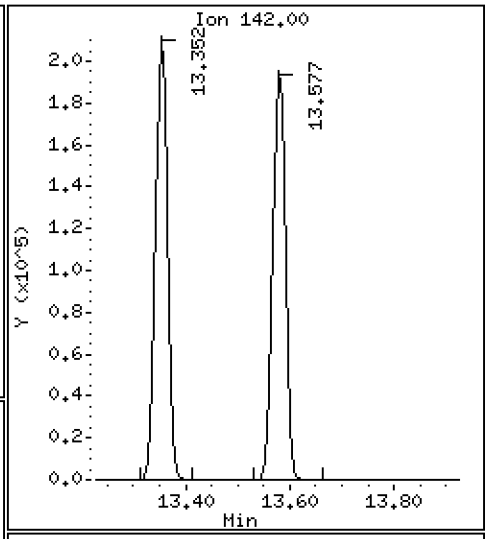
Column phase: ZB-5msi

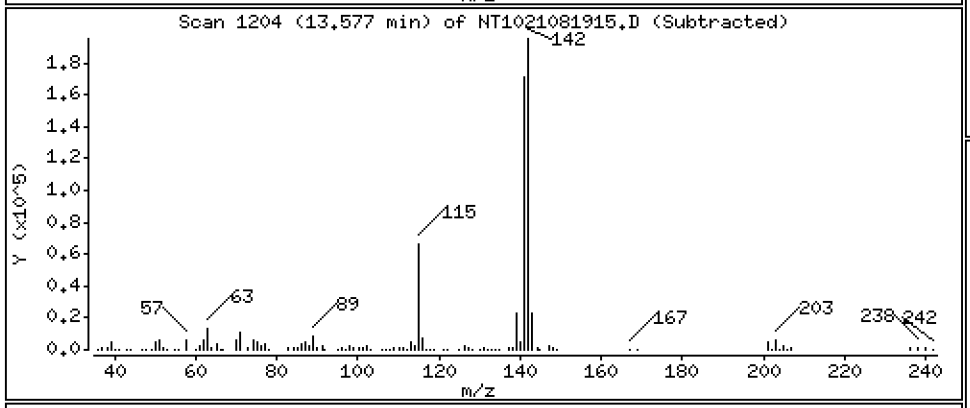
Column diameter: 0.25

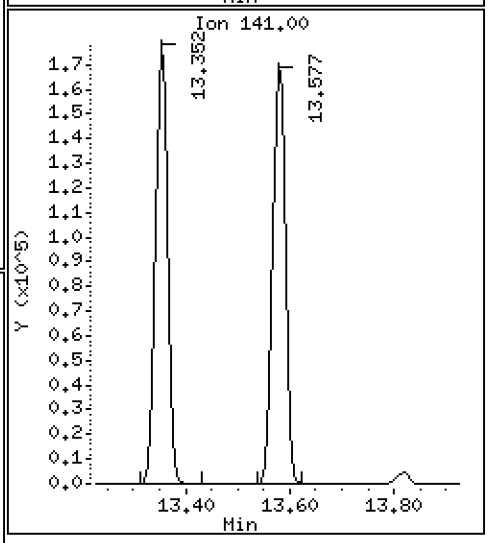
105 1-methylnaphthalene

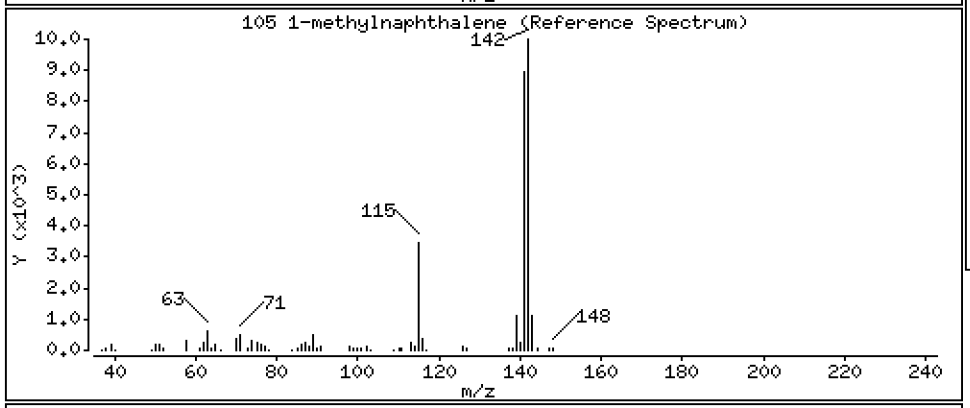
Concentration: 4.815 ug/mL

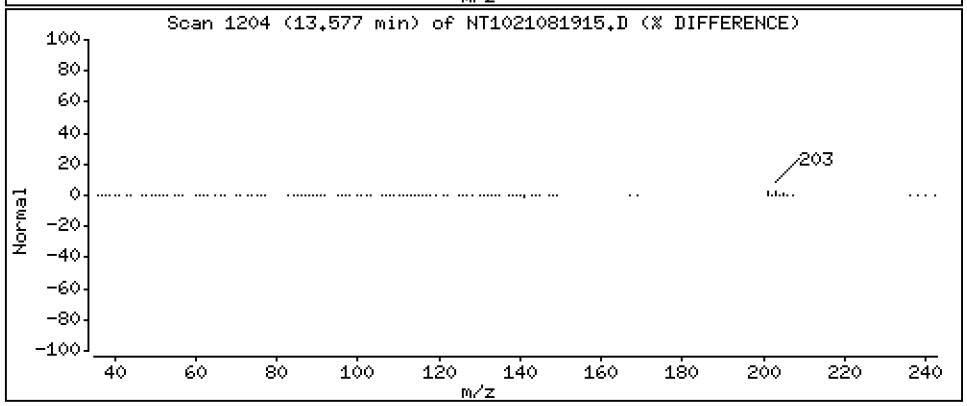












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

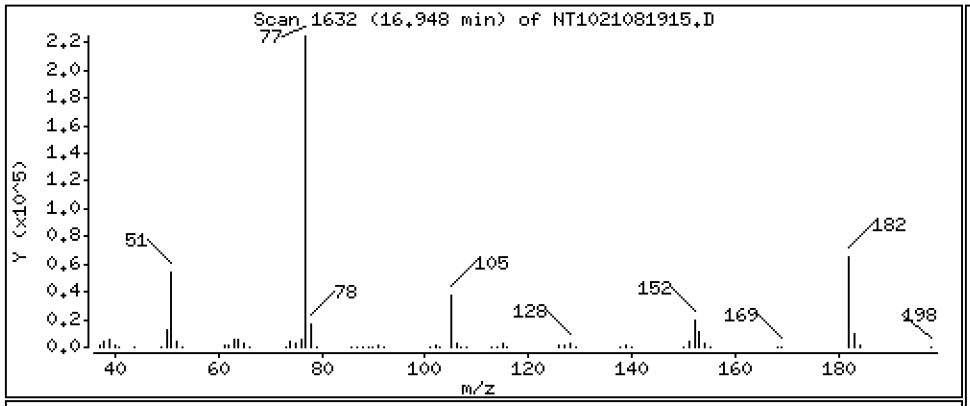
Operator: VTS

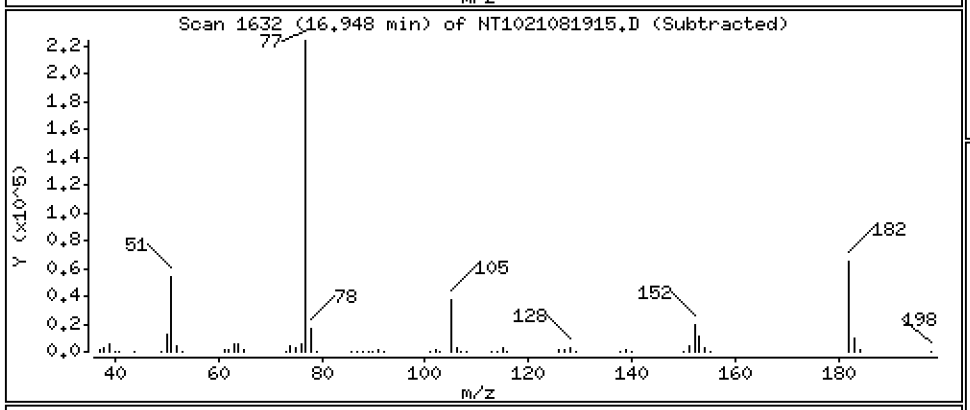
Column phase: ZB-5msi

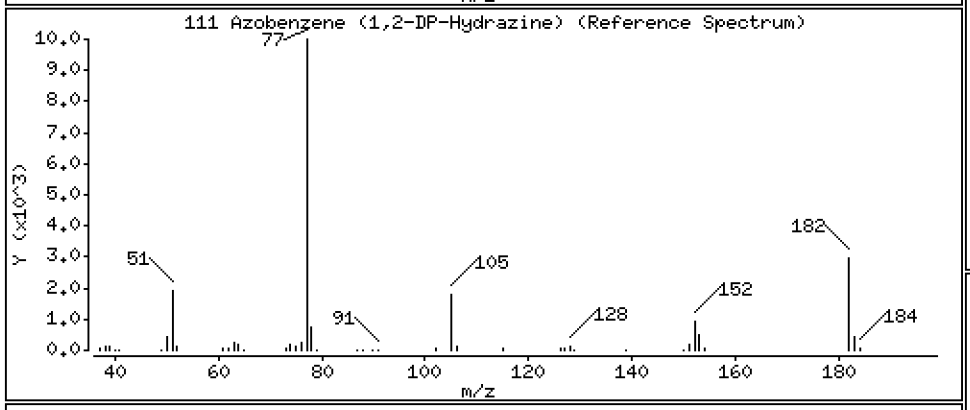
Column diameter: 0.25

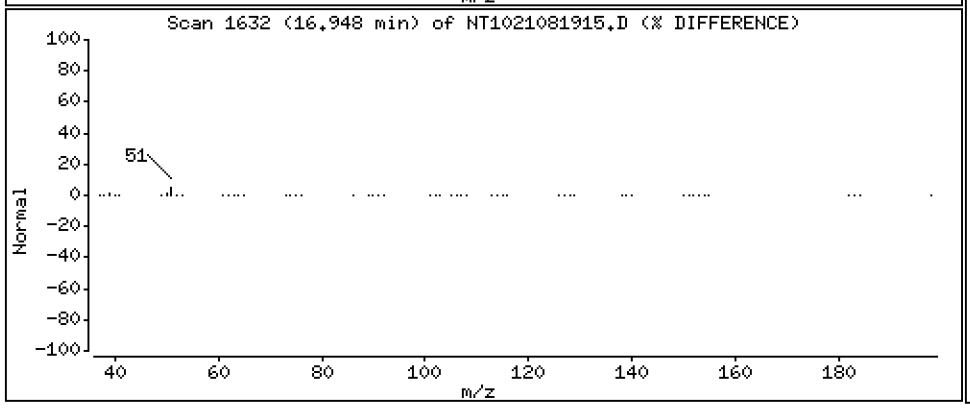
111 Azobenzene (1,2-DP-Hydrazine)

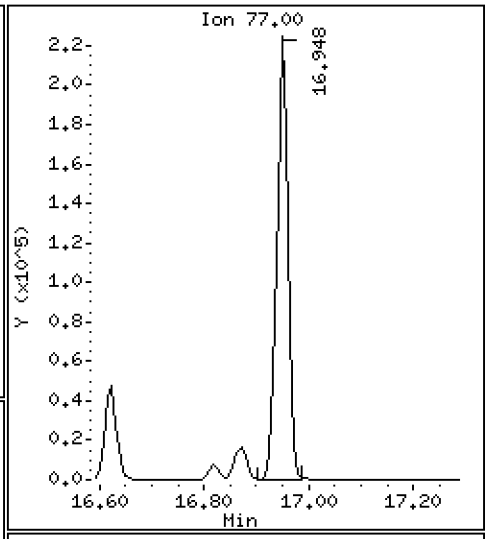
Concentration: 5.417 ug/mL

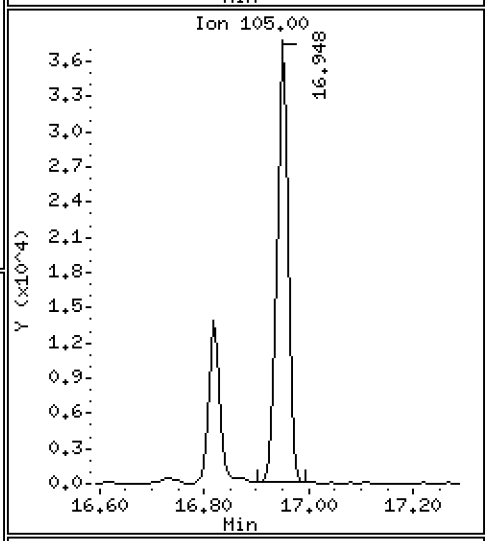


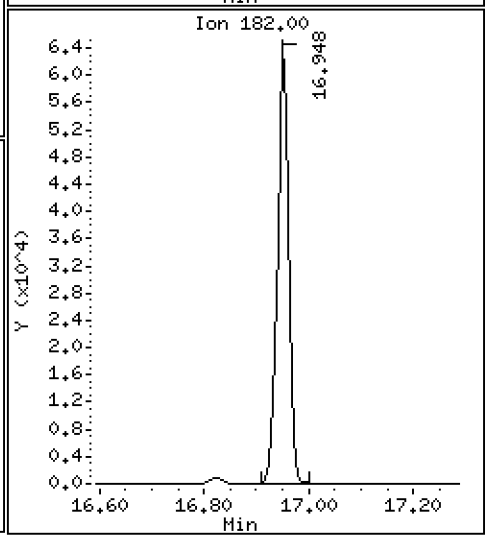












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

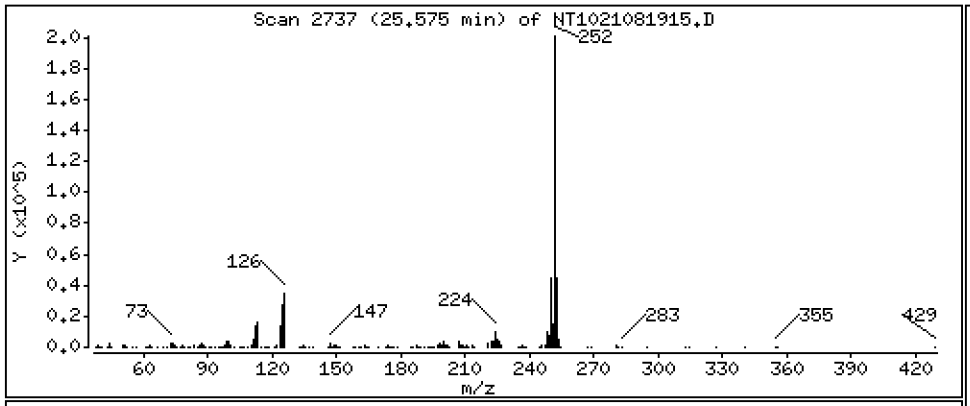
Operator: VTS

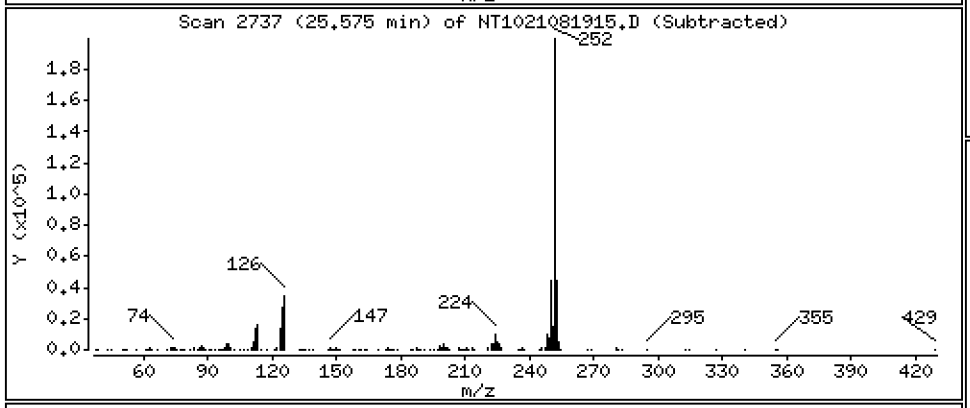
Column phase: ZB-5msi

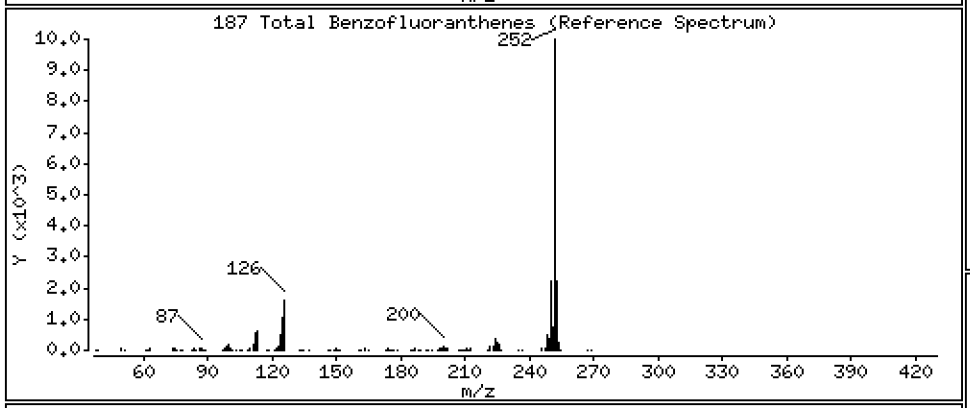
Column diameter: 0.25

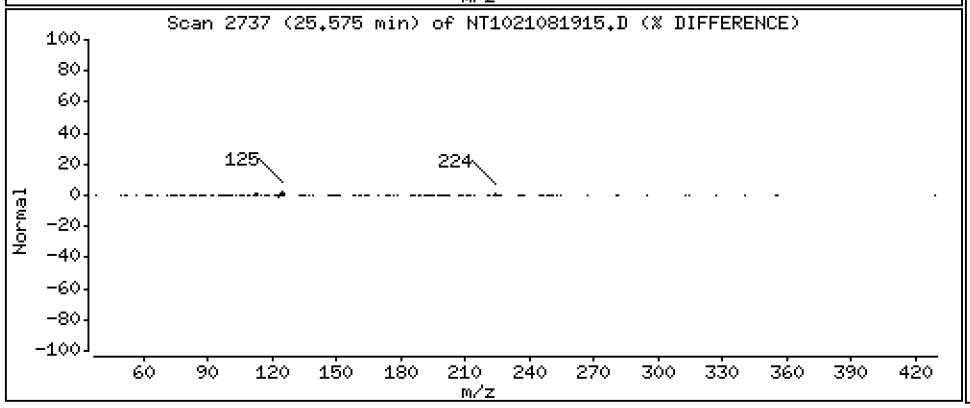
187 Total Benzofluoranthenes

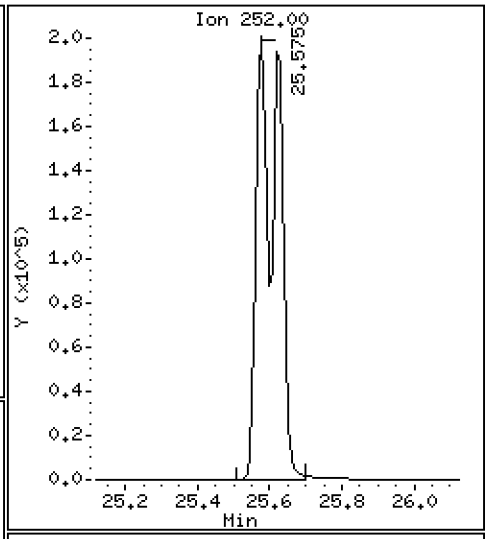
Concentration: 9.959 ug/mL

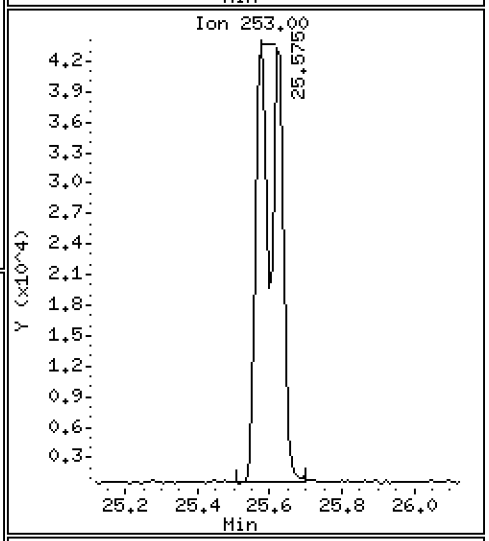


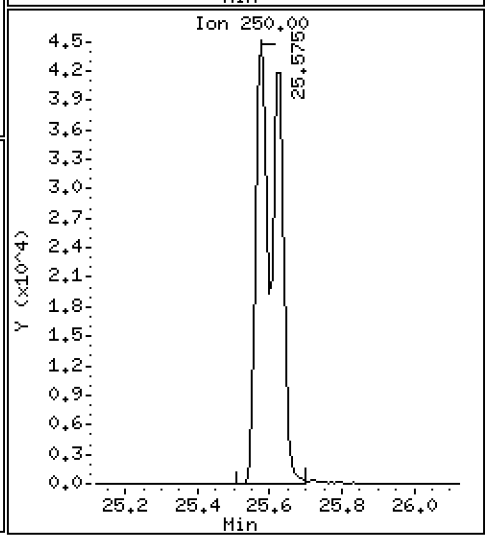












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

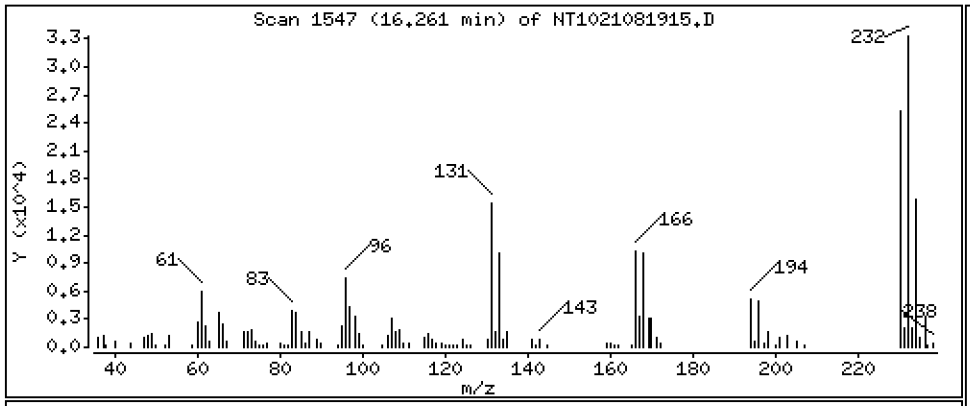
Operator: VTS

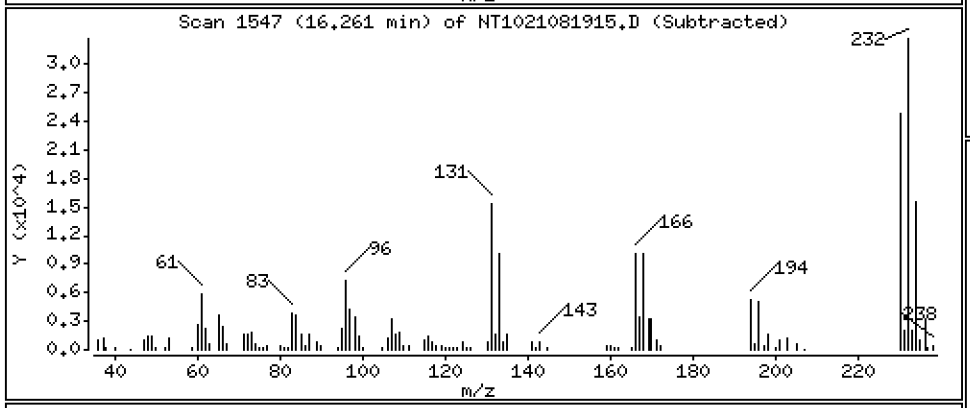
Column phase: ZB-5msi

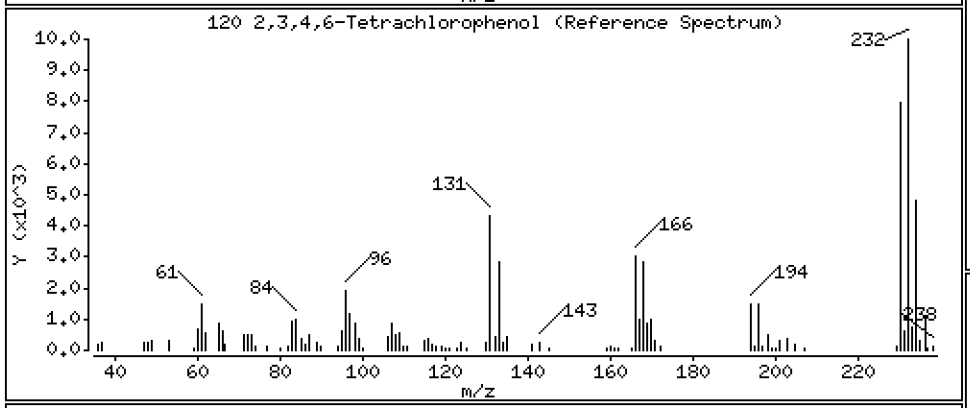
Column diameter: 0.25

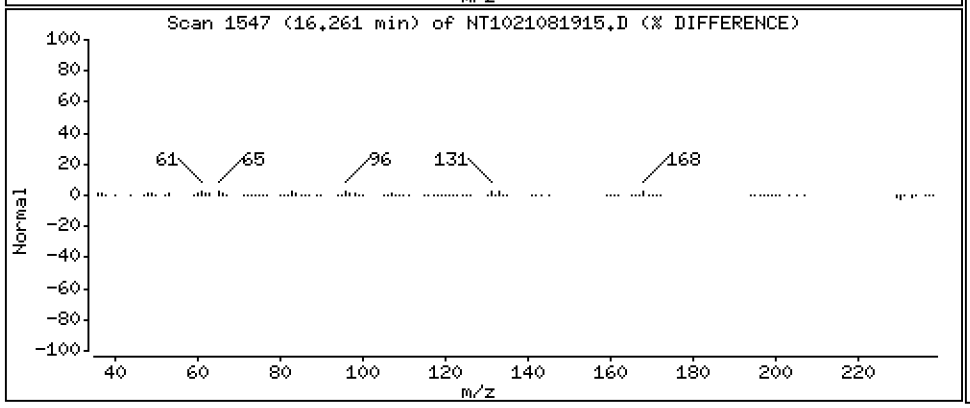
120 2,3,4,6-Tetrachlorophenol

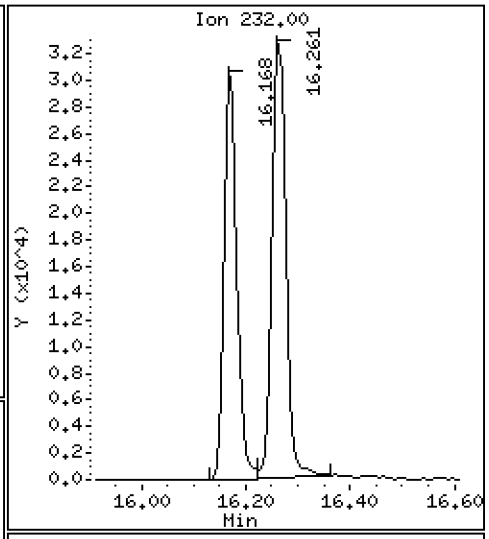
Concentration: 4.467 ug/mL

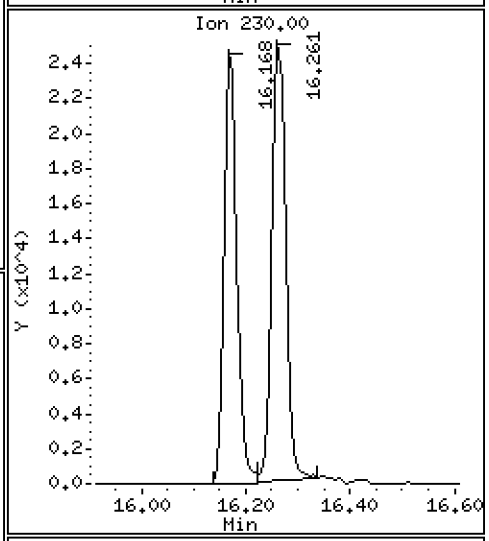


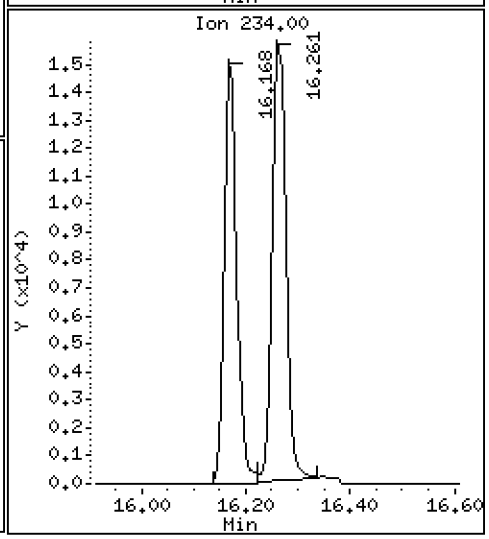












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Inj Date : 19-AUG-2021 20:42
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.784	8.784	(0.931)	199380	5.25899	5.259
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.950)	160344	5.78066	5.781
6	2-Chlorophenol	128	9.093	9.093	(0.964)	158353	5.03366	5.034
7	1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	169628	5.18579	5.186
* 8	1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	86567	4.00000	
9	1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	145074	5.85827	5.858
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	146550	5.20005	5.200
11	Benzyl alcohol	108	9.689	9.689	(1.027)	86052	4.93439	4.934
14	2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	47815	5.72048	5.720
13	2-Methylphenol	108	9.907	9.907	(1.050)	111834	4.65720	4.657
17	Hexachloroethane	117	10.411	10.411	(1.104)	60775	5.67447	5.674
16	N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	89139	5.29189	5.292
15	4-Methylphenol	108	10.178	10.171	(1.079)	120235	4.68765	4.688
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.559	10.559	(0.886)	149166	5.40261	5.403
20	Isophorone	82	11.001	11.001	(0.923)	331869	7.77753	7.778
21	2-Nitrophenol	139	11.186	11.186	(0.938)	81411	5.17753	5.178
22	2,4-Dimethylphenol	107	11.220	11.220	(0.941)	119391	4.92042	4.920
23	Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	149566	5.93771	5.938
24	Benzoic acid	105	11.381	11.339	(0.955)	66350	5.37792	5.378
25	2,4-Dichlorophenol	162	11.644	11.636	(0.977)	127985	5.14677	5.147
26	1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	120347	5.00026	5.000
* 27	Naphthalene-d8	136	11.921	11.913	(1.000)	286011	4.00000	
28	Naphthalene	128	11.959	11.959	(1.003)	361857	5.09980	5.100
29	4-Chloroaniline	127	12.083	12.075	(1.014)	157895	4.59294	4.593
30	Hexachlorobutadiene	225	12.315	12.307	(1.033)	67621	5.10670	5.107
31	4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	123056	4.92458	4.925
32	2-Methylnaphthalene	142	13.352	13.352	(1.120)	319793	4.72280	4.723
33	Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	54933	4.31449	4.314

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	84924	4.77039	4.770
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	91907	4.91422	4.914
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	14.350	14.350	(0.923)	311867	5.58535	5.585
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	82438	4.97238	4.972
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	286677	4.97899	4.979
	40 Acenaphthylene	152	15.225	15.225	(0.980)	417239	4.79575	4.796
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.976)	68264	5.36851	5.369
*	42 Acenaphthene-d10	164	15.542	15.534	(1.000)	175555	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	78104	4.56188	4.562
	44 Acenaphthene	153	15.604	15.596	(1.004)	228953	4.97526	4.975
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.008)	11153	1.66462	1.665
	46 Dibenzofuran	168	15.928	15.928	(1.025)	383631	4.69138	4.691
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	24955	4.01803	4.018
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.028)	90638	5.10639	5.106
	50 Diethylphthalate	149	16.477	16.470	(1.060)	264476	5.09602	5.096
	49 Fluorene	166	16.647	16.640	(1.071)	342768	4.72294	4.723
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	168489	5.18664	5.187
	52 4-Nitroaniline	138	16.732	16.724	(1.077)	85236	4.78806	4.788
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	50611	3.88483	3.885
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	227997	4.83479	4.835
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.948)	102044	5.39862	5.399
	57 Hexachlorobenzene	284	17.959	17.951	(0.966)	90728	5.06340	5.063
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	20638	3.12000	3.120
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	315282	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.002)	373708	4.85494	4.855
	61 Anthracene	178	18.725	18.717	(1.007)	398068	4.81320	4.813
	62 Carbazole	167	19.050	19.042	(1.025)	423459	4.97150	4.972
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	566417	5.37515	5.375
	64 Fluoranthene	202	21.000	20.992	(0.889)	552591	4.85305	4.853
	65 Pyrene	202	21.425	21.417	(0.908)	568141	4.86161	4.862
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	224852	4.88885	4.889
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	436185	4.79967	4.800
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	260128	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.996)	319253	8.82970	8.830
	71 Chrysene	228	23.647	23.647	(1.002)	337651	4.68662	4.687
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	258287	5.36165	5.362
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	500551	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	576721	5.22766	5.228
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	423157	4.87661	4.877
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	441864	5.19450	5.195
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	381697	4.97952	4.980
*	77 Perylene-d12	264	26.427	26.419	(1.000)	235857	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.378	29.371	(1.112)	384449	4.85499	4.855
	79 Dibenzo(a,h)anthracene	278	29.394	29.386	(1.112)	293070	4.83753	4.838
	80 Benzo(g,h,i)perylene	276	30.264	30.256	(1.145)	340450	4.92315	4.923
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.532)	112508	6.03654	6.037
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	21.224	21.216	(0.899)	417920	8.48003	8.480
	103 Pyridine	79	5.052	5.052	(0.536)	168778	2.86646	2.866
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	314464	4.81470	4.815
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.090)	324373	5.41670	5.417

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.575	25.621	(0.968)	824481	9.95946	9.959
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.046)	57716	4.46735	4.467

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	86567	-11.23
27 Naphthalene-d8	336155	168078	672310	286011	-14.92
42 Acenaphthene-d10	204971	102486	409942	175555	-14.35
59 Phenanthrene-d10	357720	178860	715440	315282	-11.86
69 Chrysene-d12	291052	145526	582104	260128	-10.62
134 Di-n-octylphthala	588887	294444	1177774	500551	-15.00
77 Perylene-d12	273109	136555	546218	235857	-13.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.54	0.05
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081915.D

Lab ID: SJH0235-SCV1
nt10.i, ABN.m, 19-AUG-2021 20:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1021081912.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Calibration: EH00053
Laboratory ID: SJH0235-SCV1
Sequence: SJH0235
Standard ID: J008837

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	5.3	5.2	20.00
bis(2-chloroethyl) ether	5.0000	5.8	15.6	20.00
2-Chlorophenol	5.0000	5.0	0.7	20.00
1,3-Dichlorobenzene	5.0000	5.2	3.7	20.00
1,4-Dichlorobenzene	5.0000	5.9	17.2	20.00
1,2-Dichlorobenzene	5.0000	5.2	4.0	20.00
Benzyl Alcohol	5.0000	4.9	-1.3	20.00
2,2'-Oxybis(1-chloropropane)	5.0000	5.7	14.4	20.00
2-Methylphenol	5.0000	4.7	-6.9	20.00
Hexachloroethane	5.0000	5.7	13.5	20.00
N-Nitroso-di-n-Propylamine	5.0000	5.3	5.8	20.00
4-Methylphenol	5.0000	4.7	-6.2	20.00
Nitrobenzene	5.0000	5.4	8.1	20.00
Isophorone	5.0000	7.8	55.6 *	20.00
2-Nitrophenol	5.0000	5.2	3.6	20.00
2,4-Dimethylphenol	5.0000	4.9	-1.6	20.00
Bis(2-Chloroethoxy)methane	5.0000	5.9	18.8	20.00
2,4-Dichlorophenol	5.0000	5.1	2.9	20.00
1,2,4-Trichlorobenzene	5.0000	5.0	0.005	20.00
Naphthalene	5.0000	5.1	2.0	20.00
Benzoic acid	10.000	5.4	-46.2 *	20.00
4-Chloroaniline	5.0000	4.6	-8.1	20.00
Hexachlorobutadiene	5.0000	5.1	2.1	20.00
4-Chloro-3-Methylphenol	5.0000	4.9	-1.5	20.00
2-Methylnaphthalene	5.0000	4.7	-5.5	20.00
Hexachlorocyclopentadiene	5.0000	4.3	-13.7	20.00
2,4,6-Trichlorophenol	5.0000	4.8	-4.6	20.00
2,4,5-Trichlorophenol	5.0000	4.9	-1.7	20.00
2-Chloronaphthalene	5.0000	5.6	11.7	20.00
2-Nitroaniline	5.0000	5.0	-0.6	20.00
Acenaphthylene	5.0000	4.8	-4.1	20.00
Dimethylphthalate	5.0000	5.0	-0.4	20.00

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Calibration: EH00053
Laboratory ID: SJH0235-SCV1
Sequence: SJH0235
Standard ID: J008837

2,6-Dinitrotoluene	5.0000	5.4	7.4		20.00
Acenaphthene	5.0000	5.0	-0.5		20.00
3-Nitroaniline	5.0000	4.6	-8.8		20.00
2,4-Dinitrophenol	5.0000	1.7	-66.7	*	20.00
Dibenzofuran	5.0000	4.7	-6.2		20.00
4-Nitrophenol	5.0000	4.0	-19.6		20.00
2,4-Dinitrotoluene	5.0000	5.1	2.1		20.00
Fluorene	5.0000	4.7	-5.5		20.00
4-Chlorophenylphenyl ether	5.0000	5.2	3.7		20.00
Diethyl phthalate	5.0000	5.1	1.9		20.00
4-Nitroaniline	5.0000	4.8	-4.2		20.00
4,6-Dinitro-2-methylphenol	5.0000	3.9	-22.3	*	20.00
N-Nitrosodiphenylamine	5.0000	4.8	-3.3		20.00
4-Bromophenyl phenyl ether	5.0000	5.4	8.0		20.00
Hexachlorobenzene	5.0000	5.1	1.3		20.00
Pentachlorophenol	5.0000	3.1	-37.6	*	20.00
Phenanthrene	5.0000	4.9	-2.9		20.00
Anthracene	5.0000	4.8	-3.7		20.00
Carbazole	5.0000	5.0	-0.6		20.00
Di-n-Butylphthalate	5.0000	5.4	7.5		20.00
Fluoranthene	5.0000	4.9	-2.9		20.00
Pyrene	5.0000	4.9	-2.8		20.00
Butylbenzylphthalate	5.0000	4.9	-2.2		20.00
Benzo(a)anthracene	5.0000	4.8	-4.0		20.00
3,3'-Dichlorobenzidine	10.000	8.8	-11.7		20.00
Chrysene	5.0000	4.7	-6.3		20.00
bis(2-Ethylhexyl)phthalate	5.0000	5.4	7.2		20.00
Di-n-Octylphthalate	5.0000	5.2	4.6		20.00
Benzofluoranthenes, Total	10.000	10.0	-0.4		20.00
Benzo(a)pyrene	5.0000	5.0	-0.4		20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.9	-2.9		20.00
Dibenzo(a,h)anthracene	5.0000	4.8	-3.2		20.00
Benzo(g,h,i)perylene	5.0000	4.9	-1.5		20.00
1-Methylnaphthalene	5.0000	4.8	-3.7		20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Page 1

Date : 19-AUG-2021 20:42

Client ID:

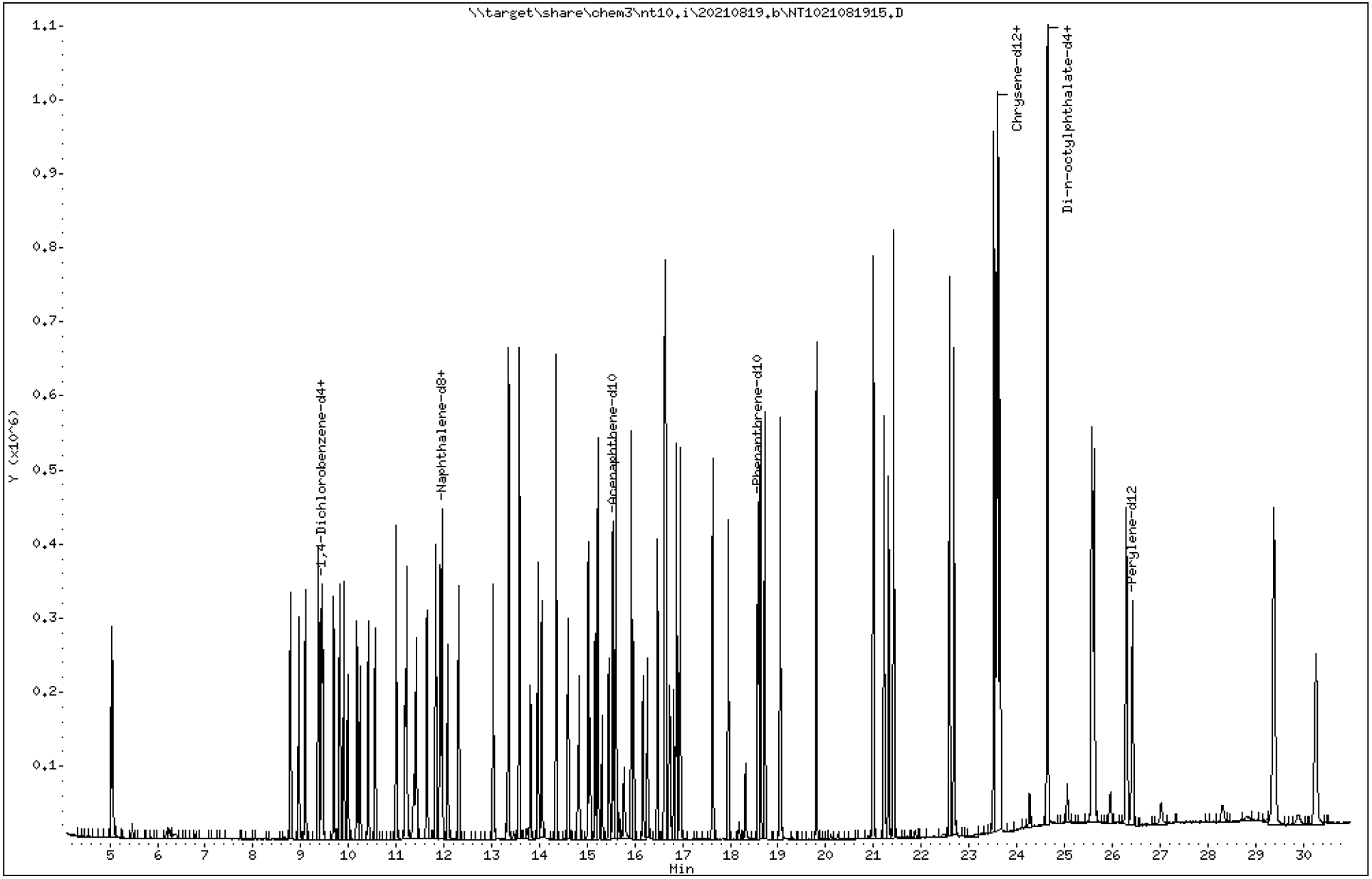
Instrument: nt10.i

Sample Info: SJH0235-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

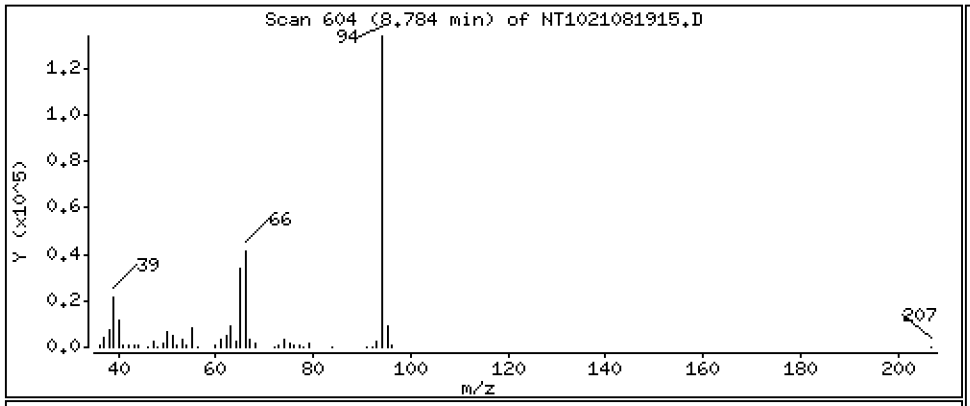
Operator: VTS

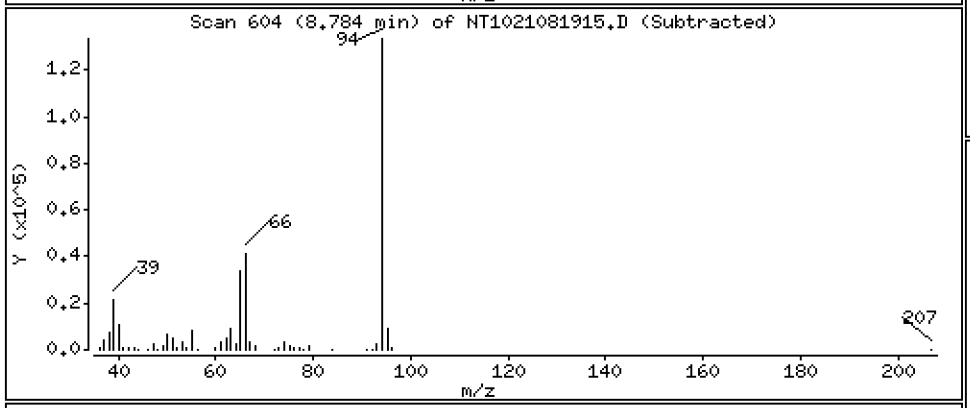
Column phase: ZB-5msi

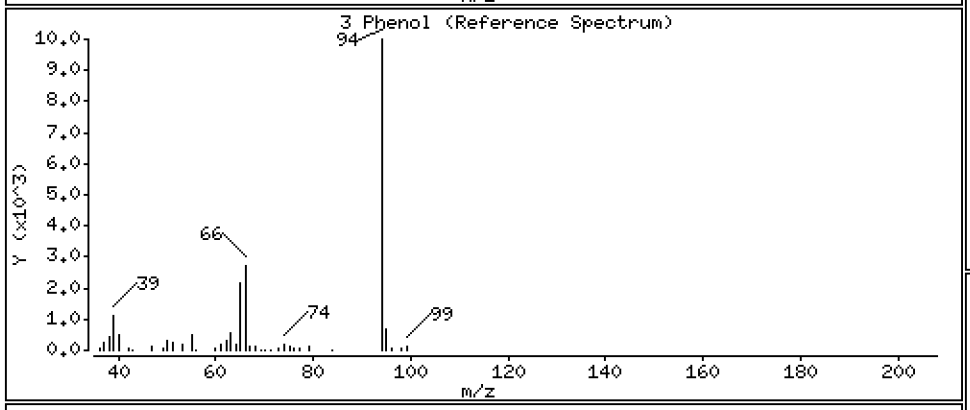
Column diameter: 0.25

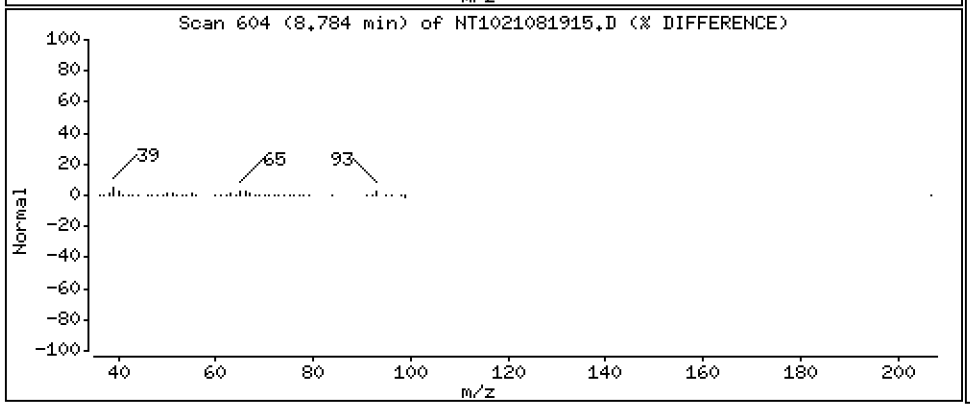
3 Phenol

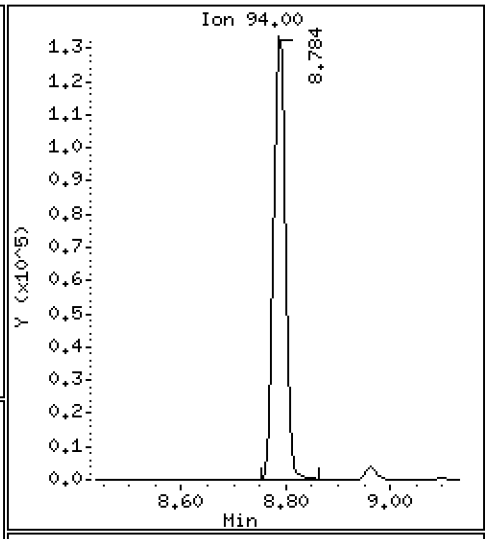
Concentration: 5.259 ug/mL

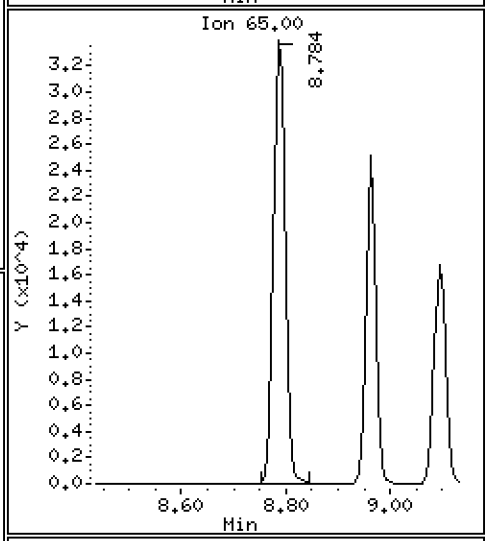


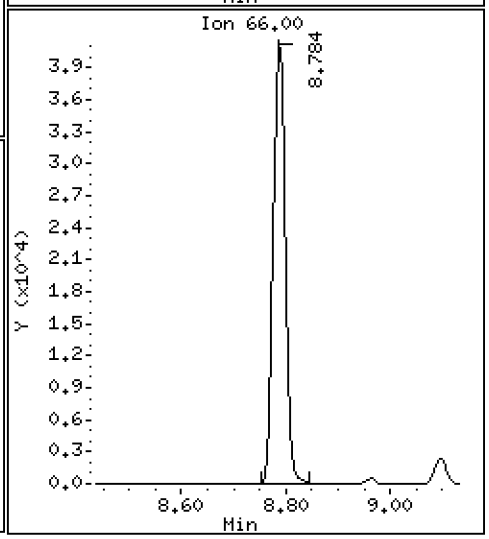












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

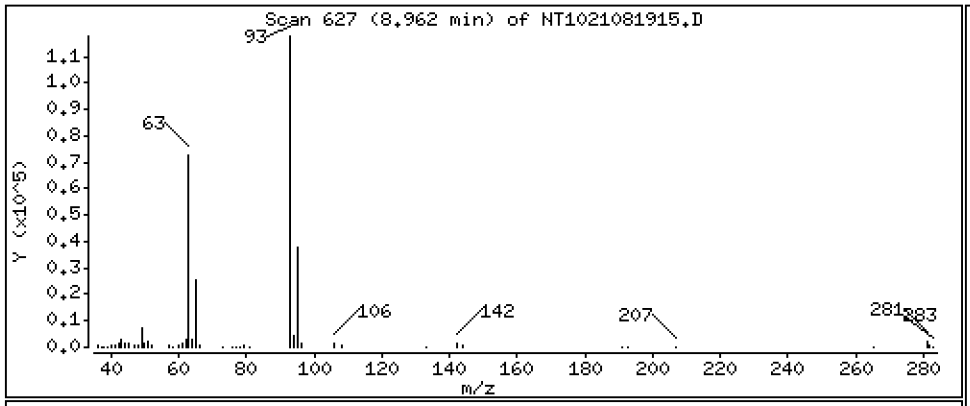
Operator: VTS

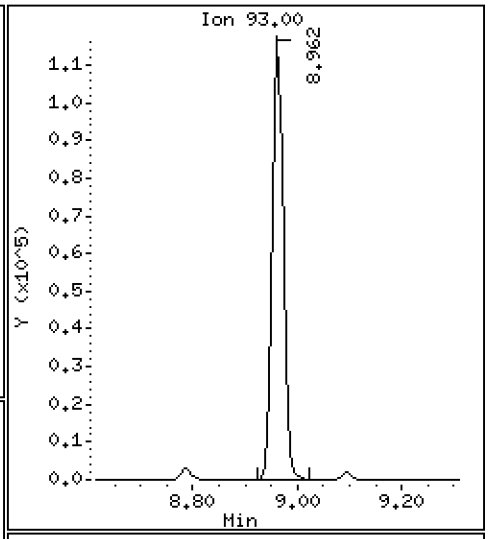
Column phase: ZB-5msi

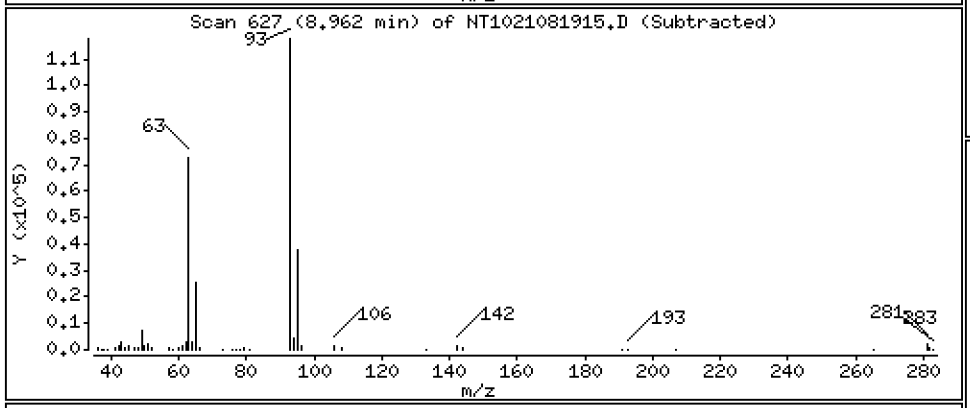
Column diameter: 0.25

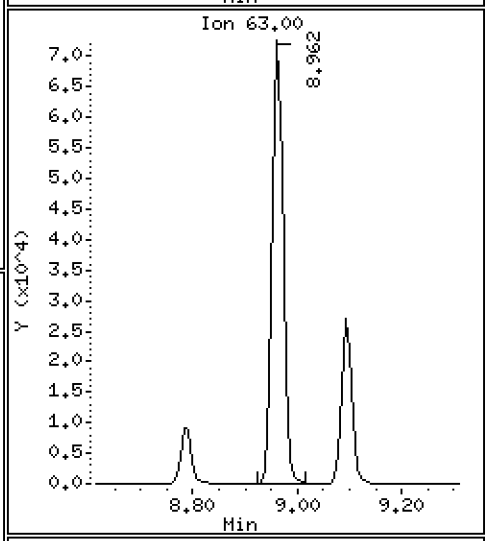
4 Bis(2-Chloroethyl)ether

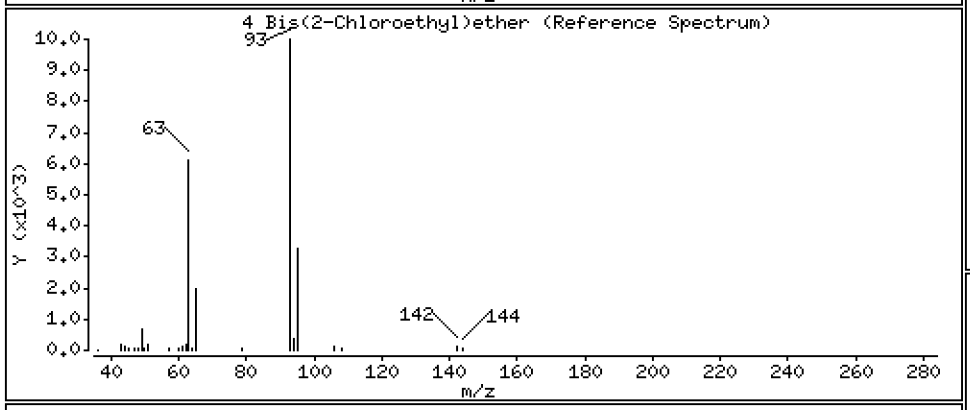
Concentration: 5.781 ug/mL

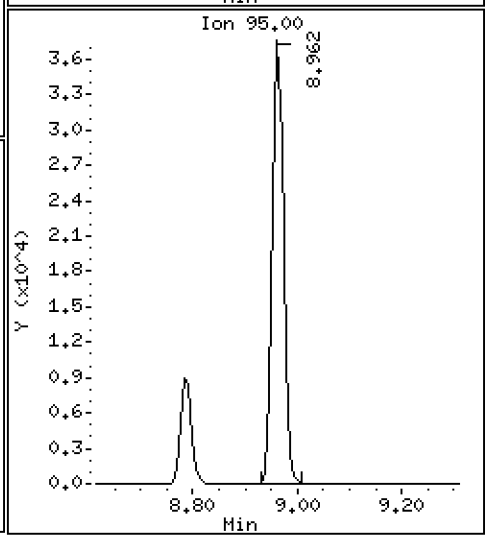


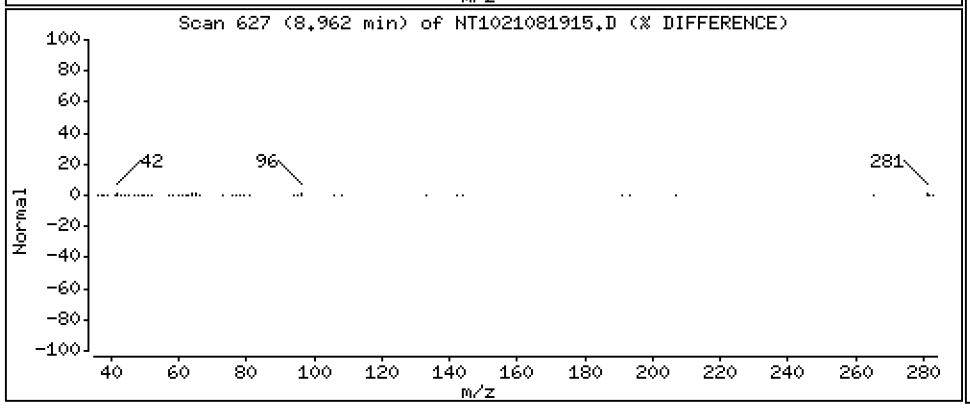












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

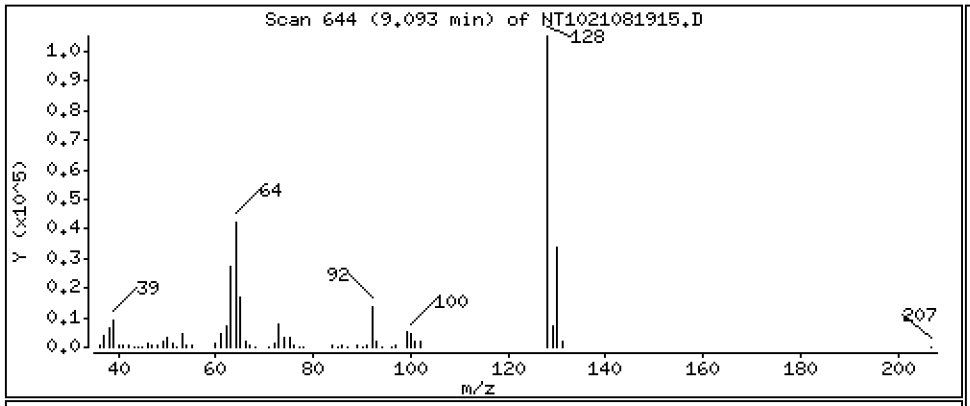
Operator: VTS

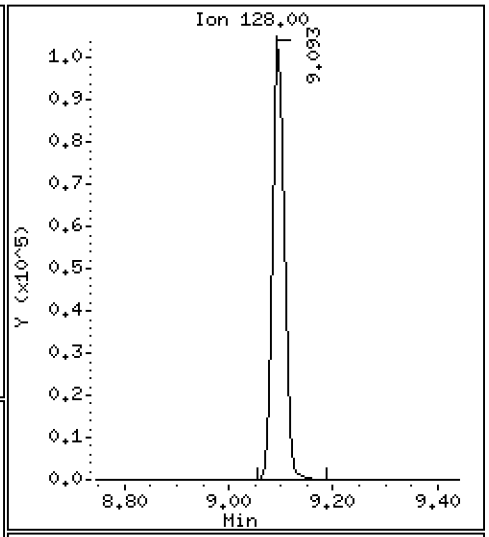
Column phase: ZB-5msi

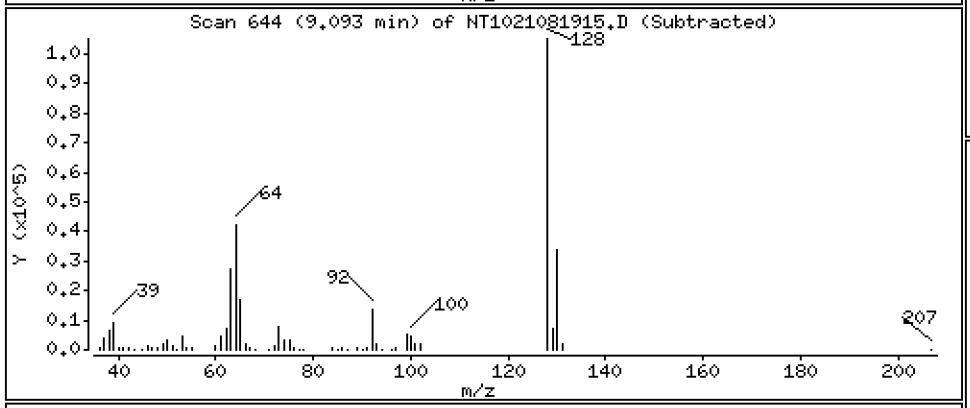
Column diameter: 0.25

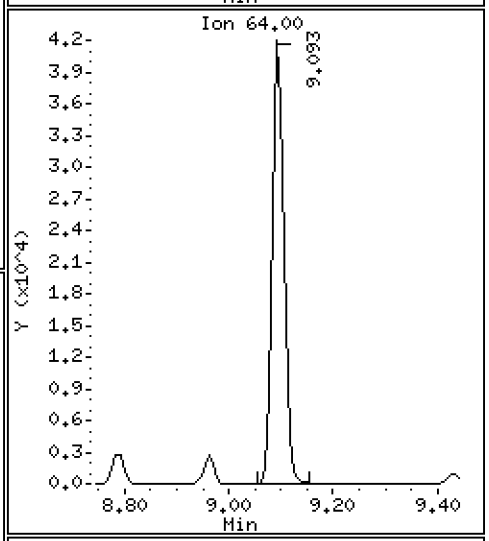
6 2-Chlorophenol

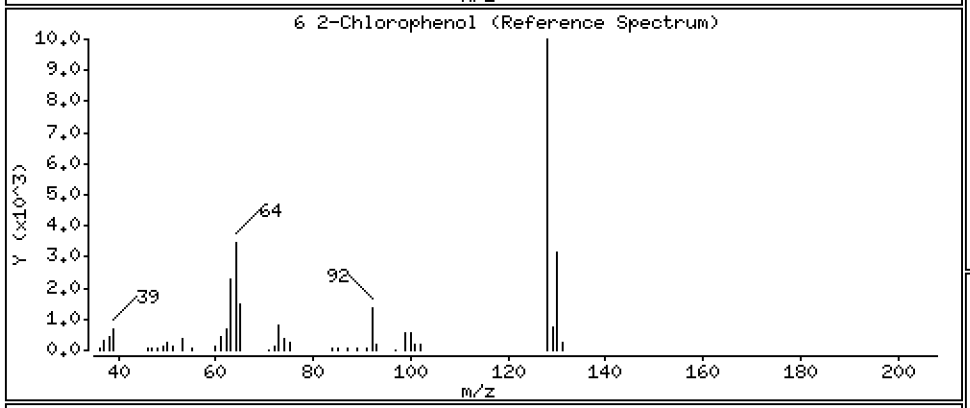
Concentration: 5.034 ug/mL

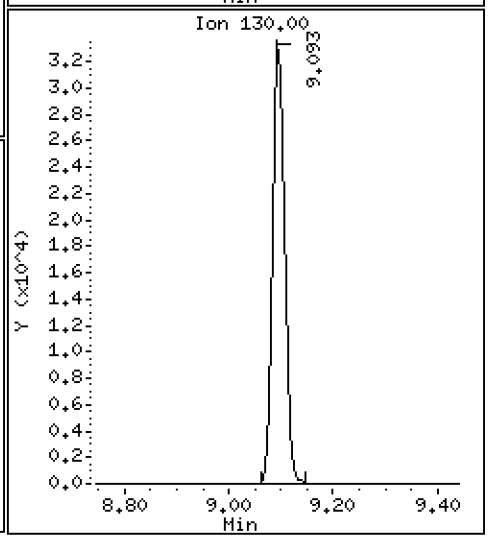


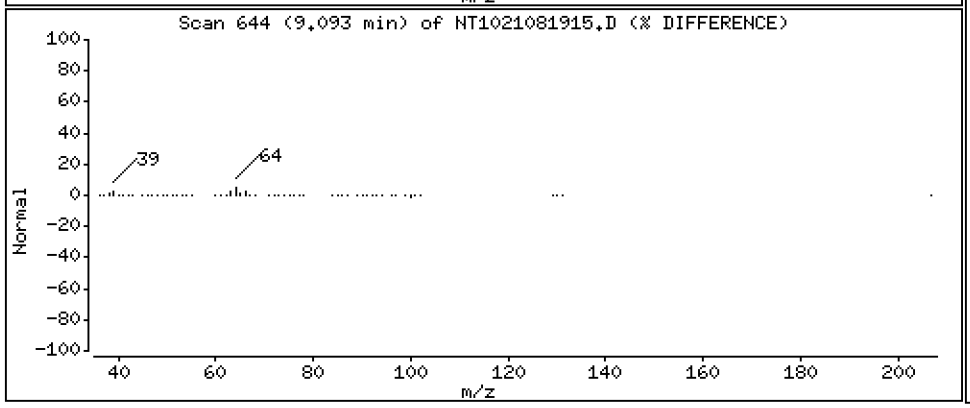












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

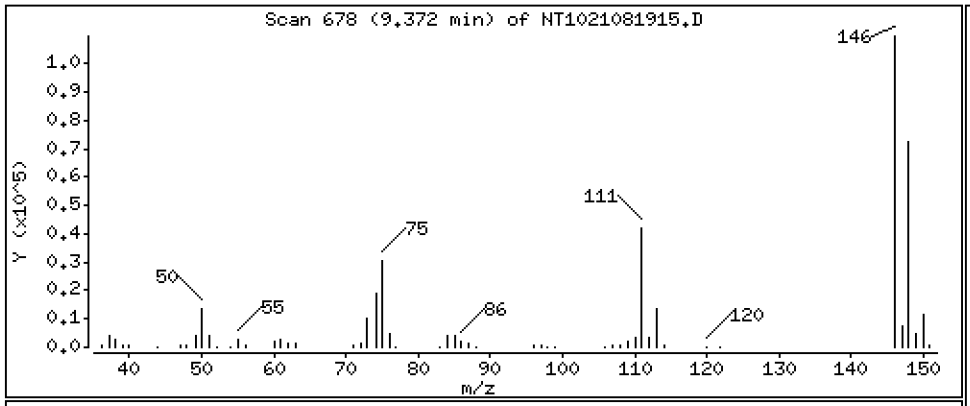
Operator: VTS

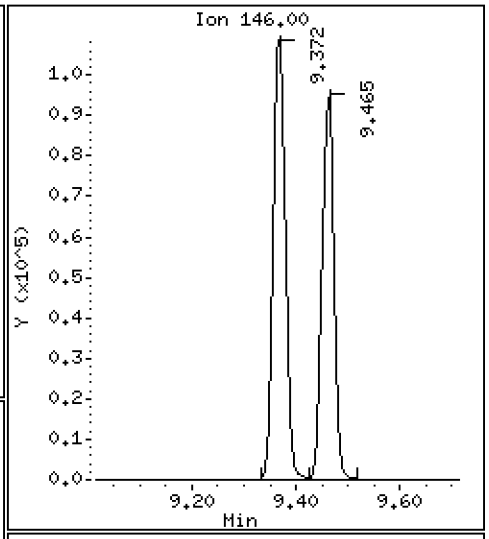
Column phase: ZB-5msi

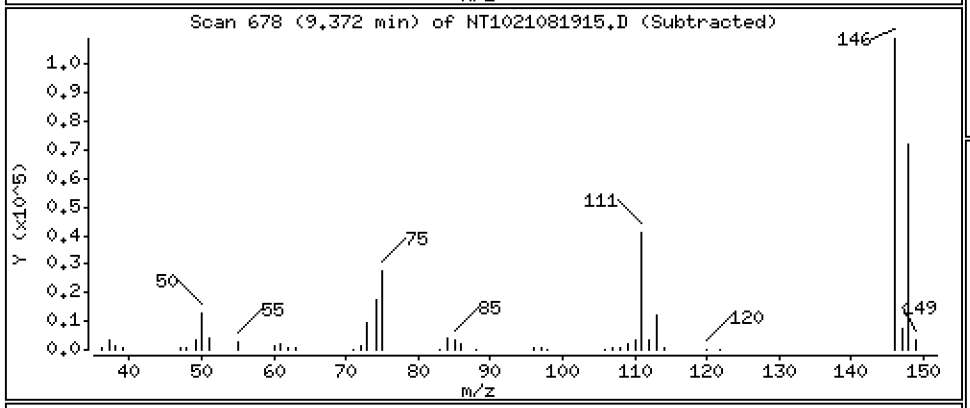
Column diameter: 0.25

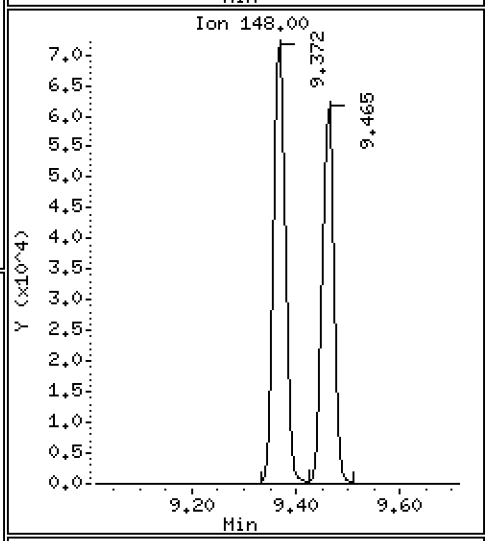
7 1,3-Dichlorobenzene

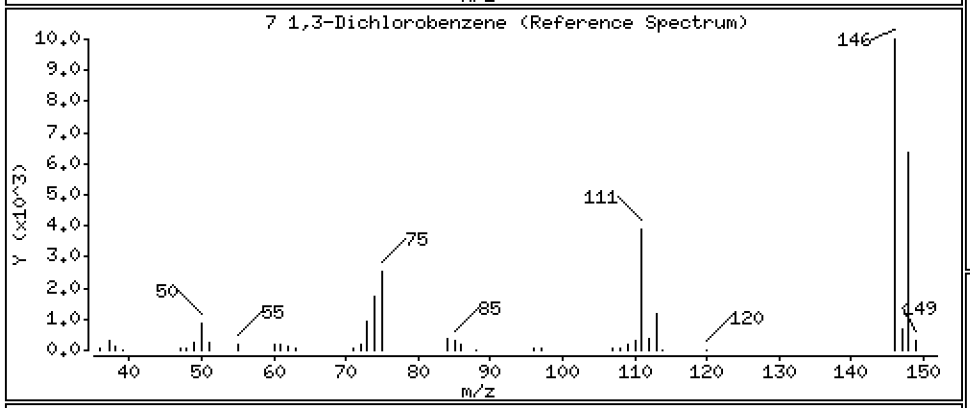
Concentration: 5.186 ug/mL

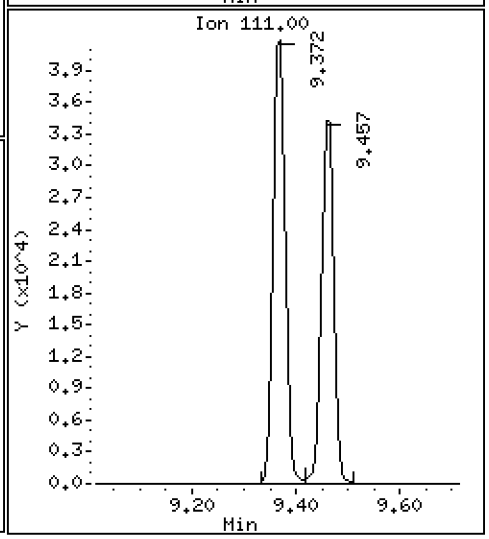


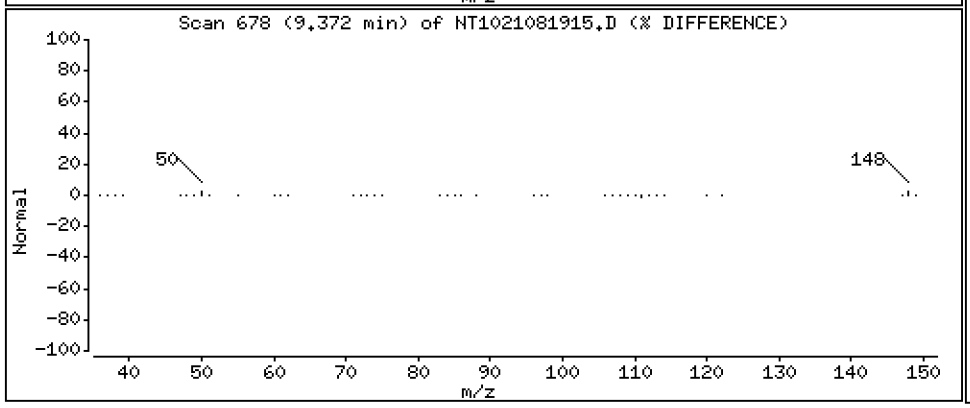












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

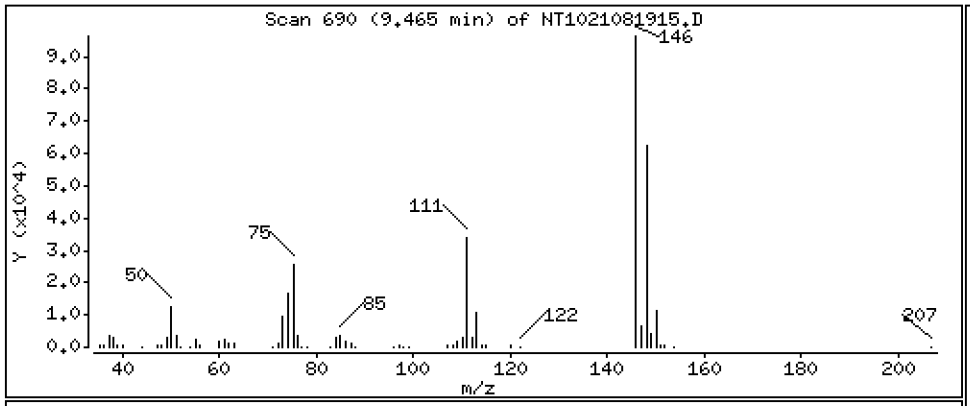
Operator: VTS

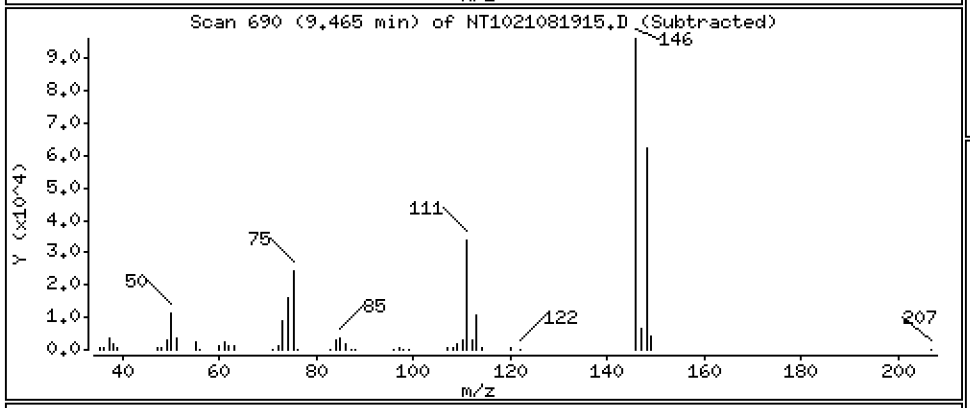
Column phase: ZB-5msi

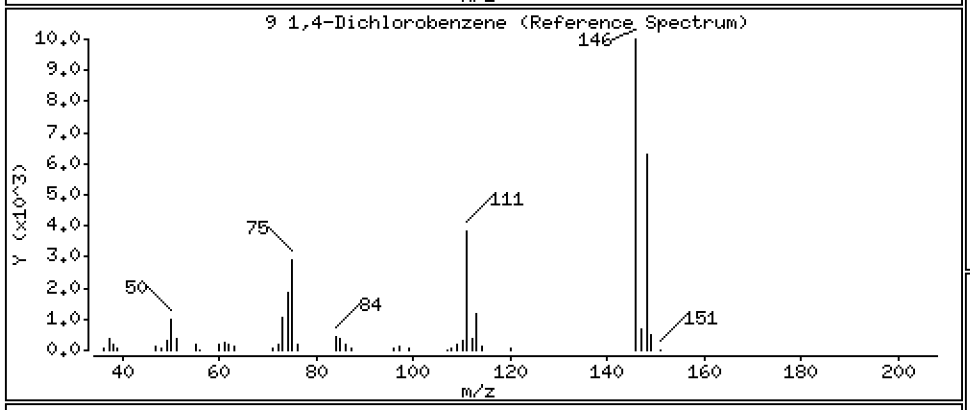
Column diameter: 0.25

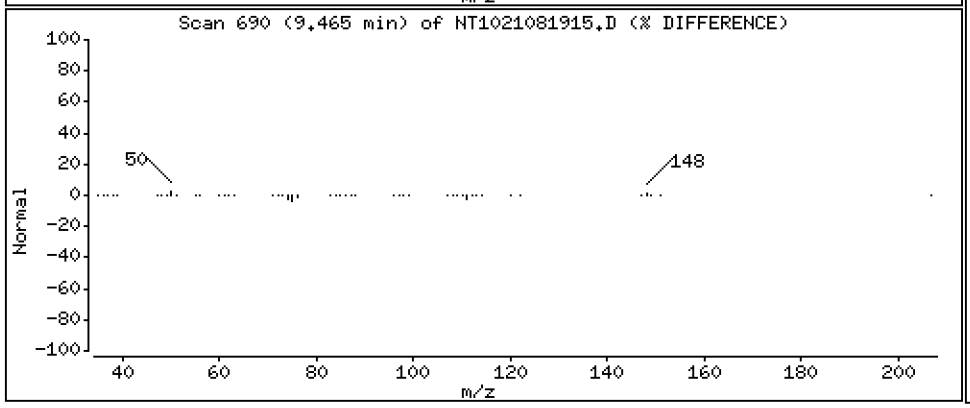
9 1,4-Dichlorobenzene

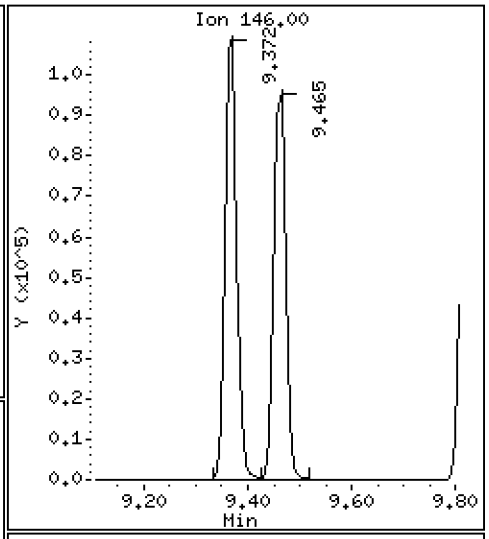
Concentration: 5.858 ug/mL

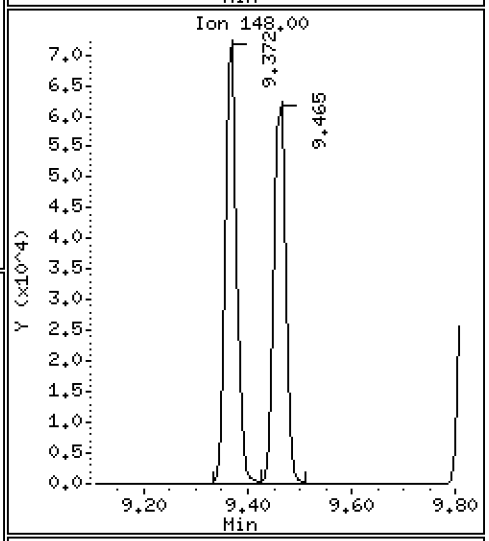


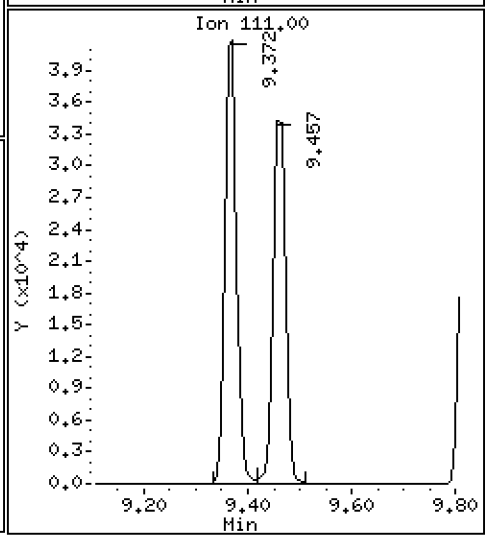












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

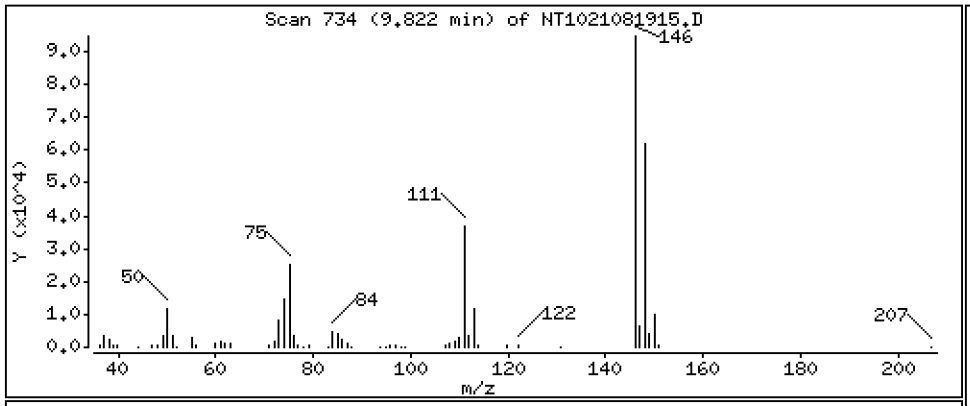
Operator: VTS

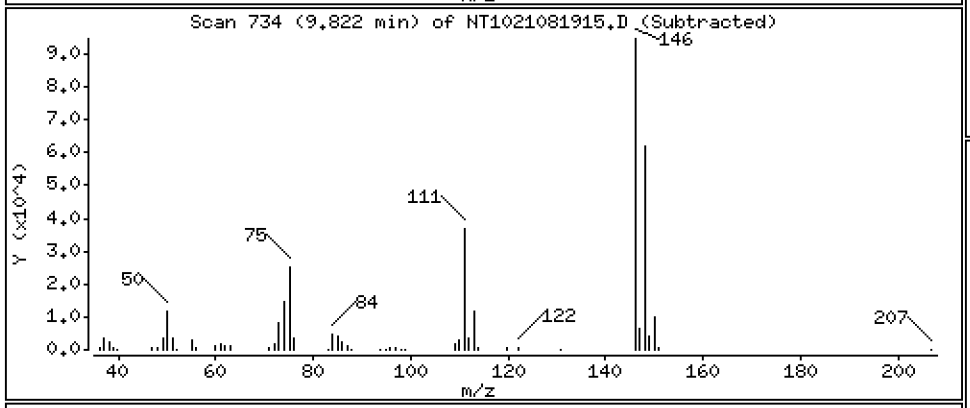
Column phase: ZB-5msi

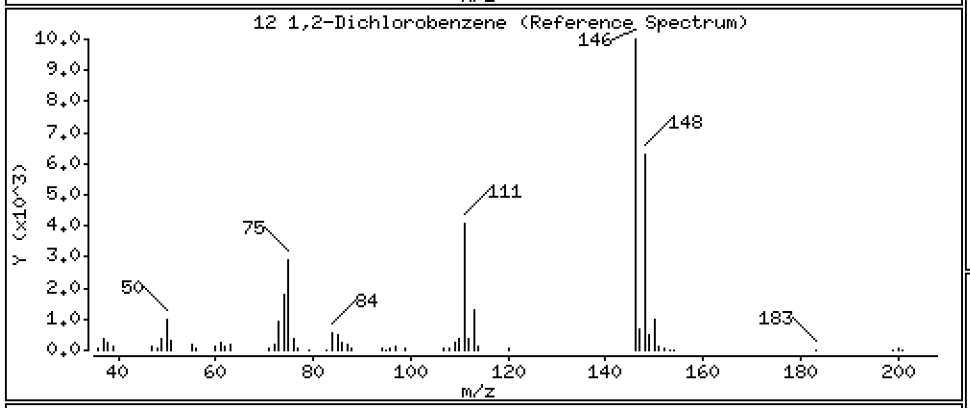
Column diameter: 0.25

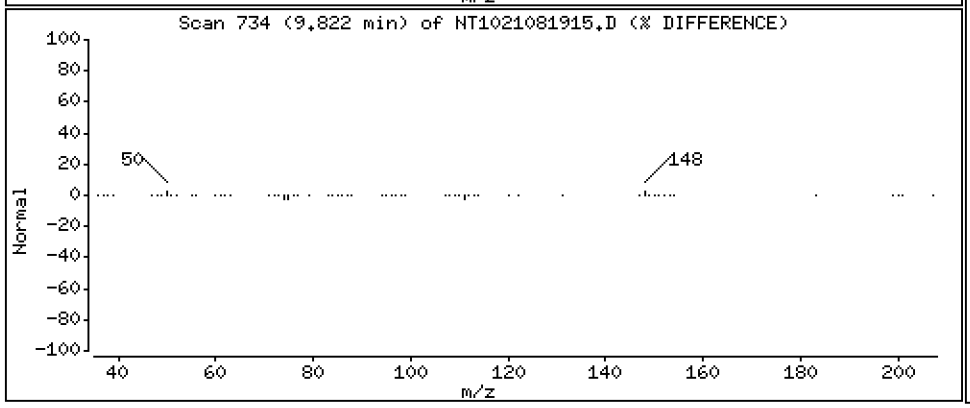
12 1,2-Dichlorobenzene

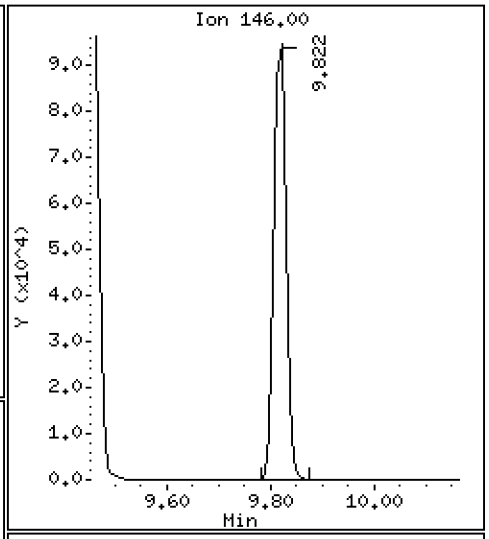
Concentration: 5.200 ug/mL

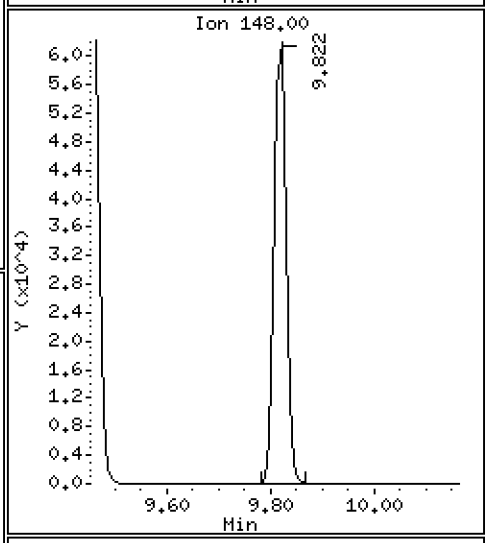


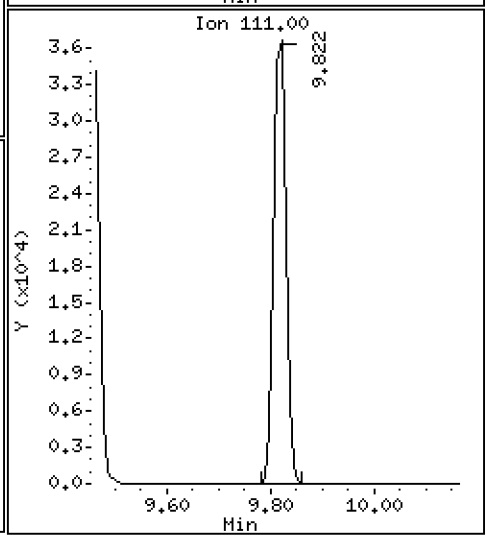












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

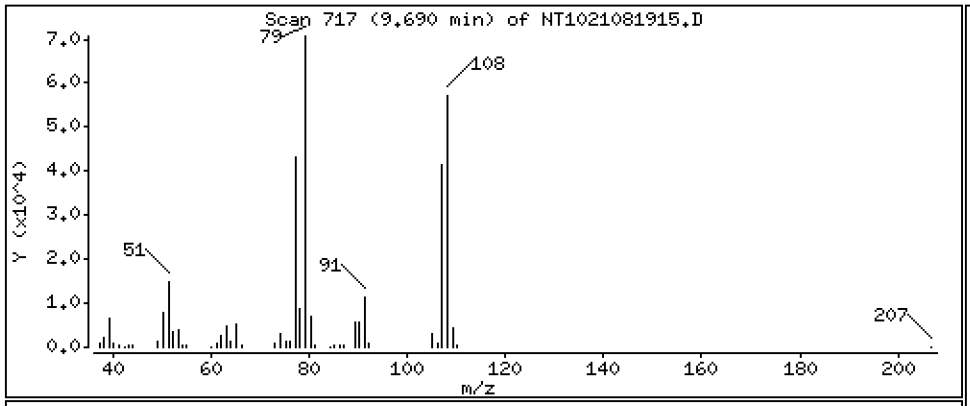
Operator: VTS

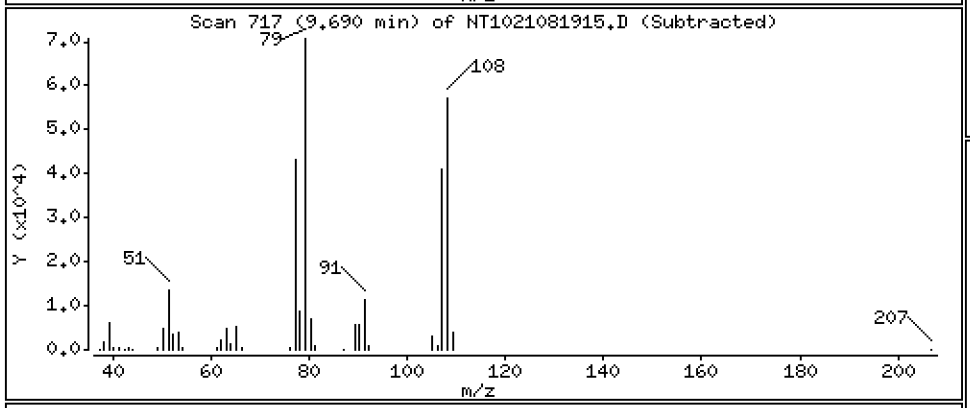
Column phase: ZB-5msi

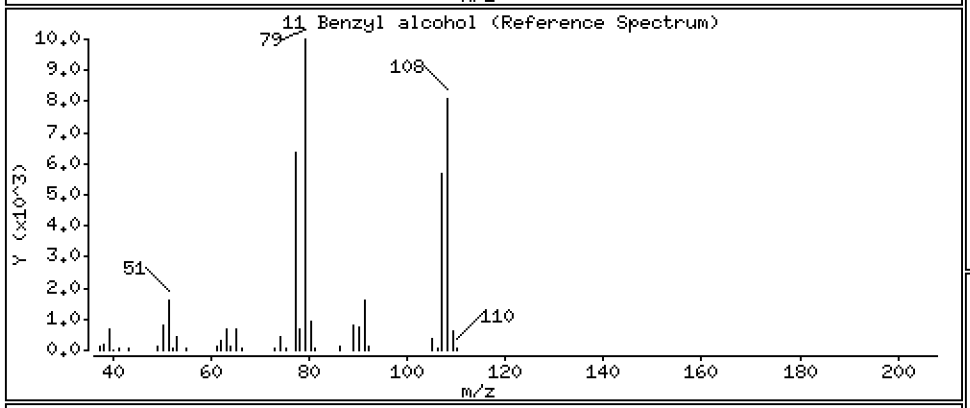
Column diameter: 0.25

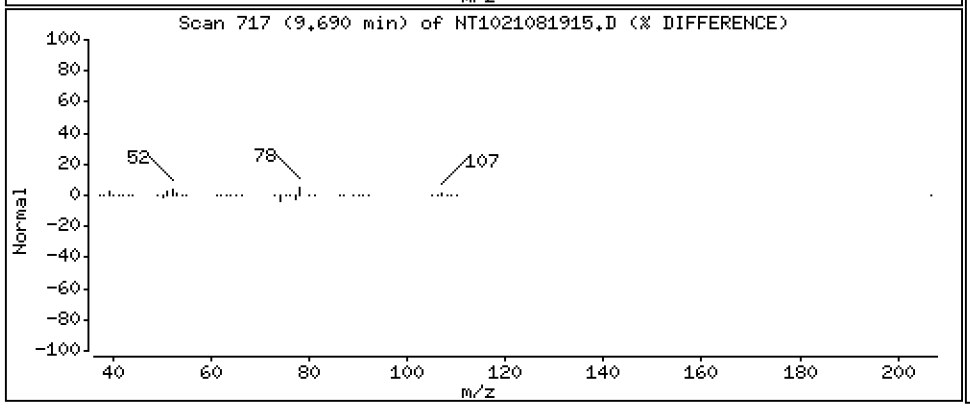
11 Benzyl alcohol

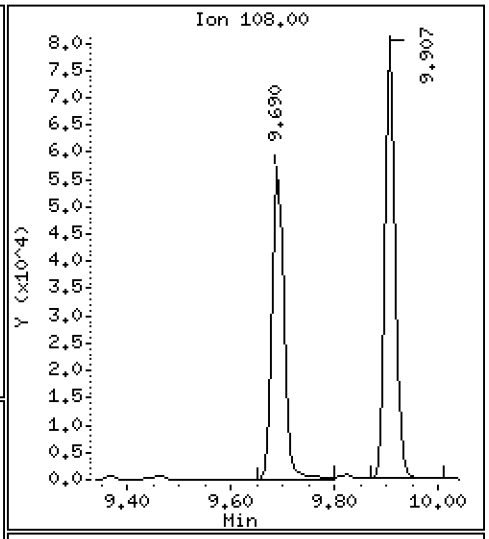
Concentration: 4.934 ug/mL

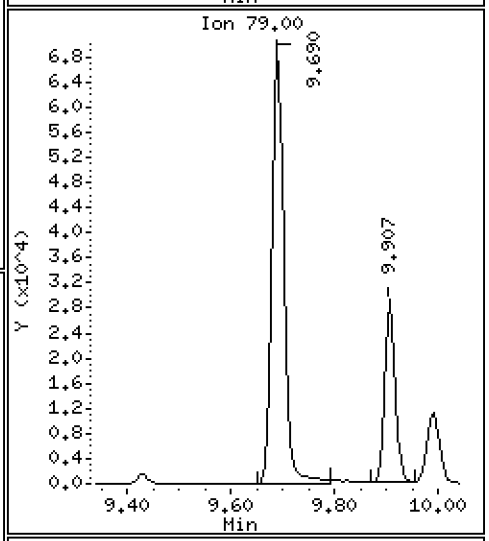


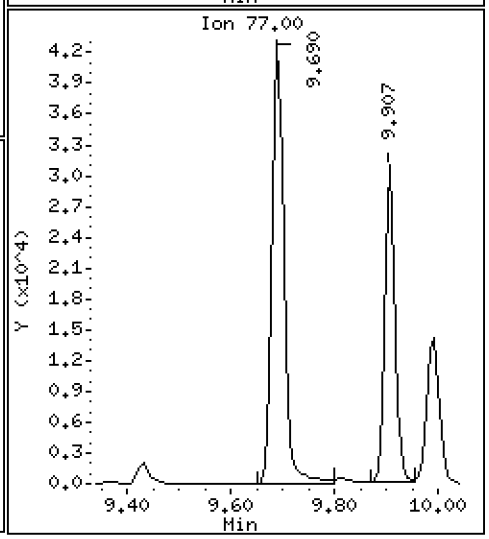












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

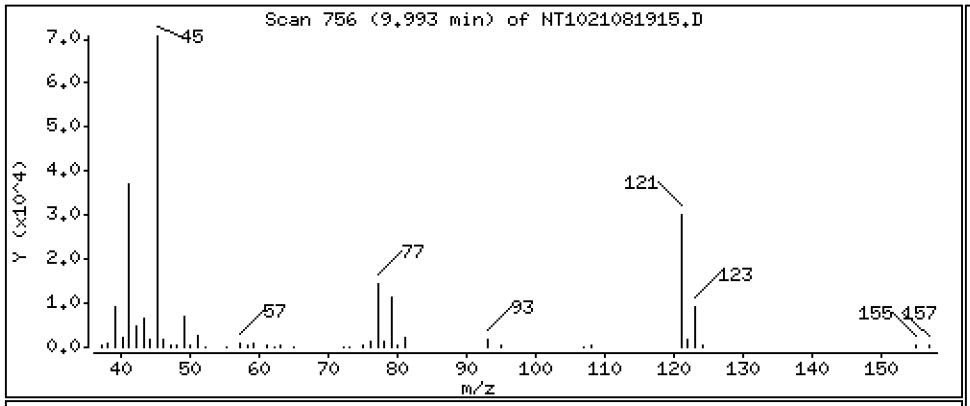
Operator: VTS

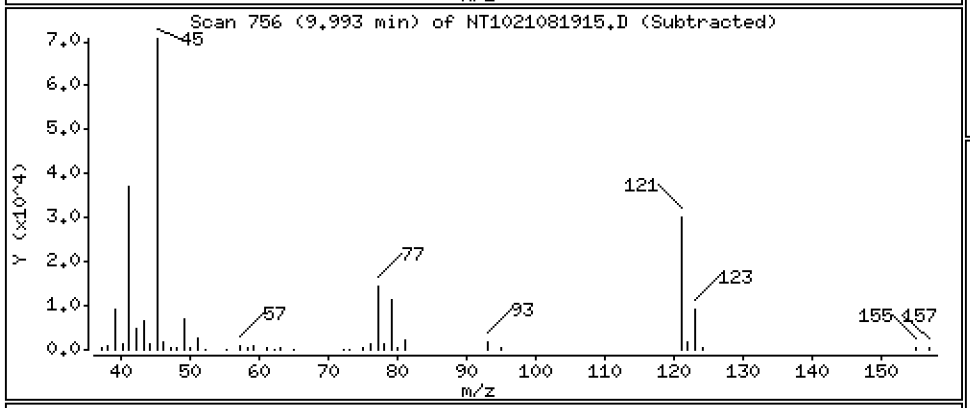
Column phase: ZB-5msi

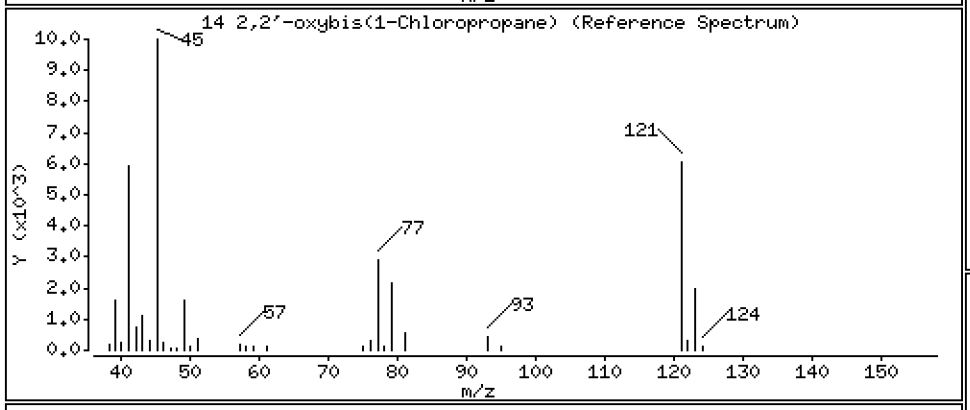
Column diameter: 0.25

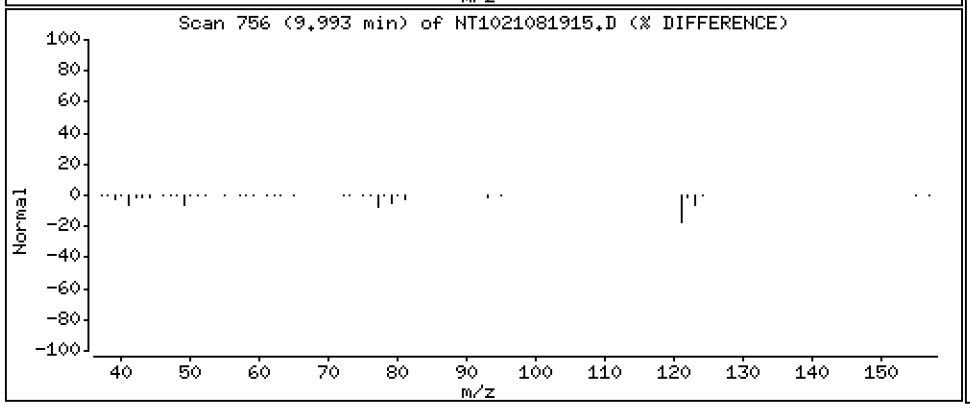
14 2,2'-oxybis(1-Chloropropane)

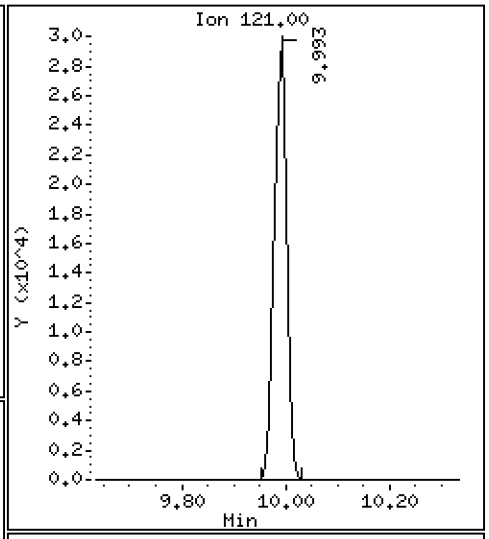
Concentration: 5.720 ug/mL

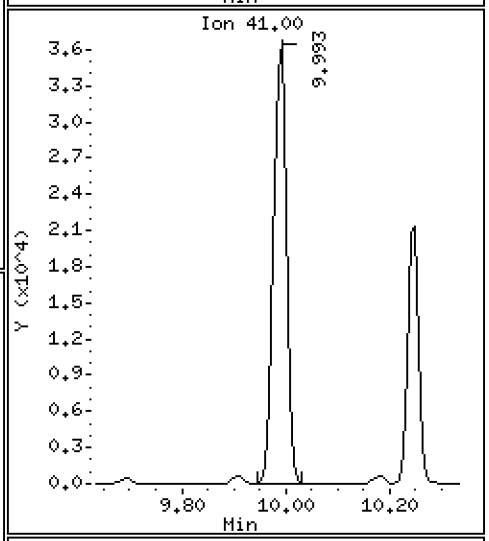


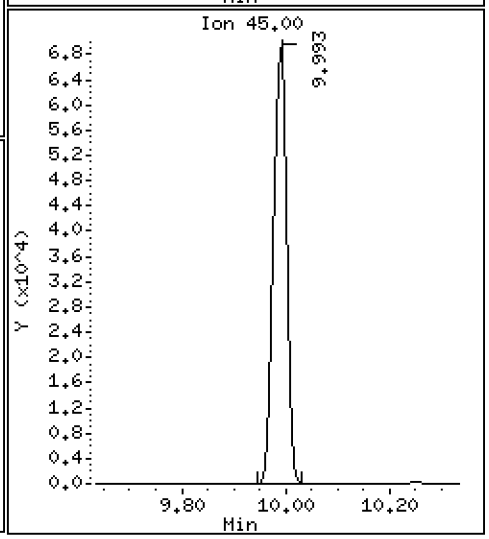












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

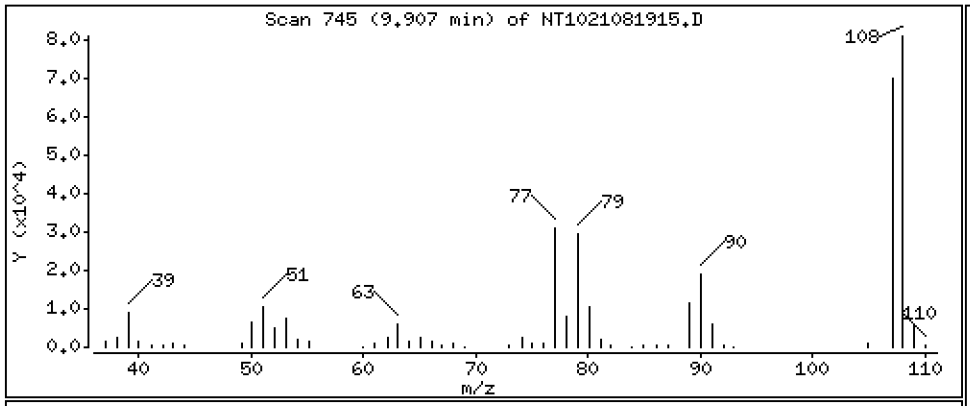
Operator: VTS

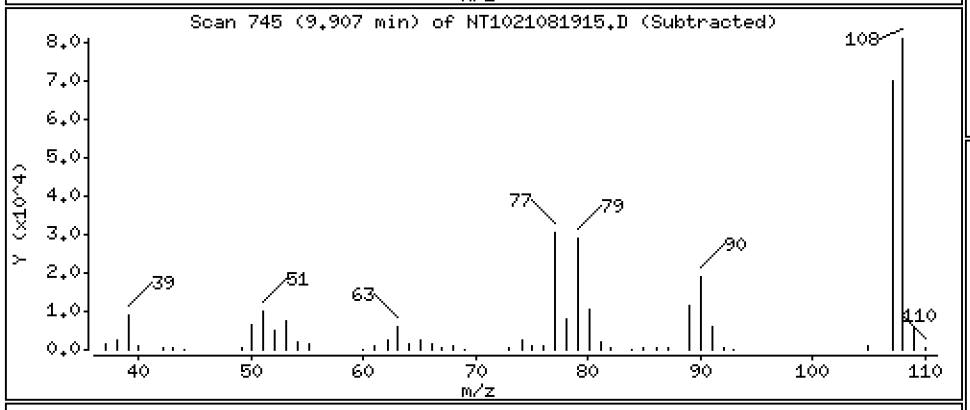
Column phase: ZB-5msi

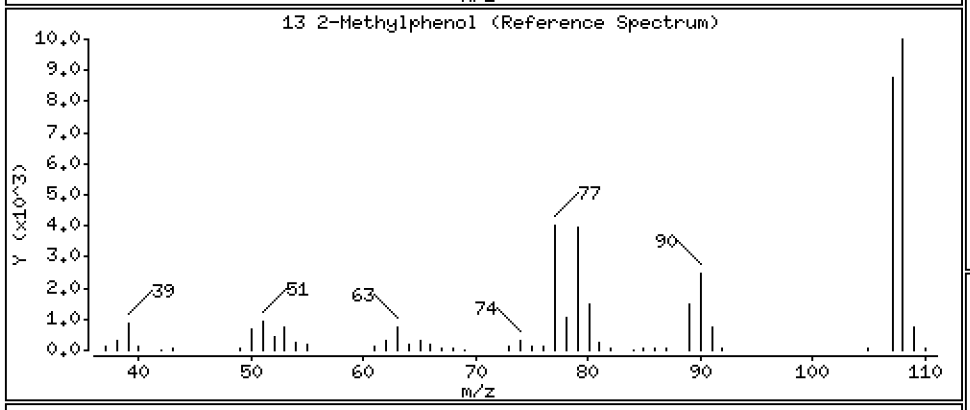
Column diameter: 0.25

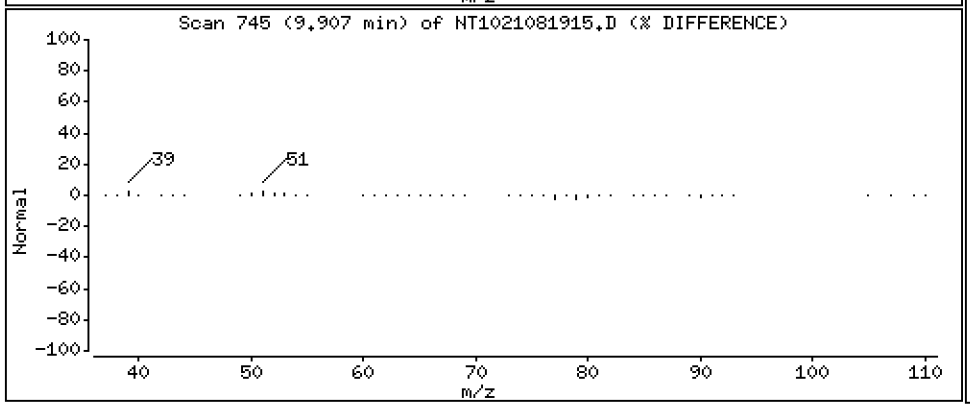
13 2-Methylphenol

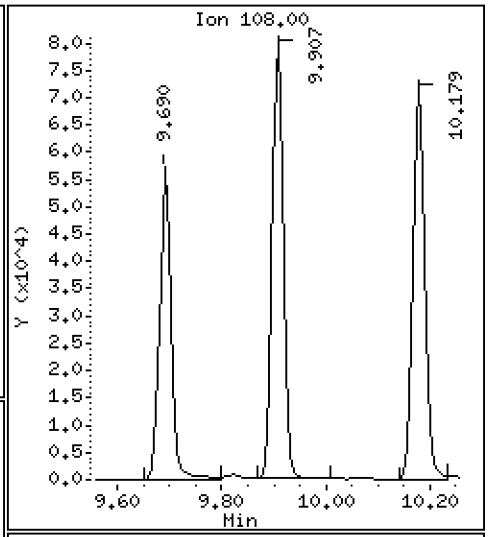
Concentration: 4.657 ug/mL

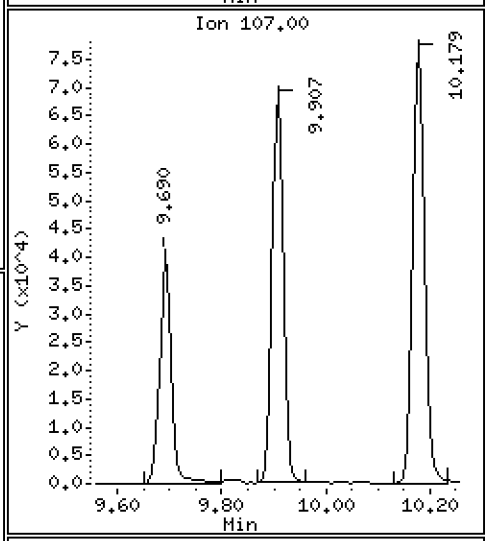


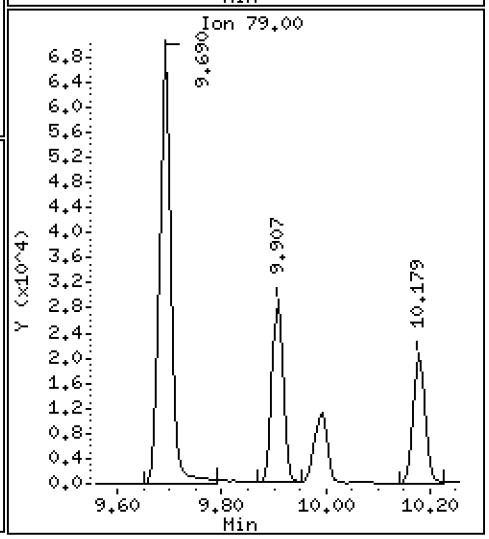












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

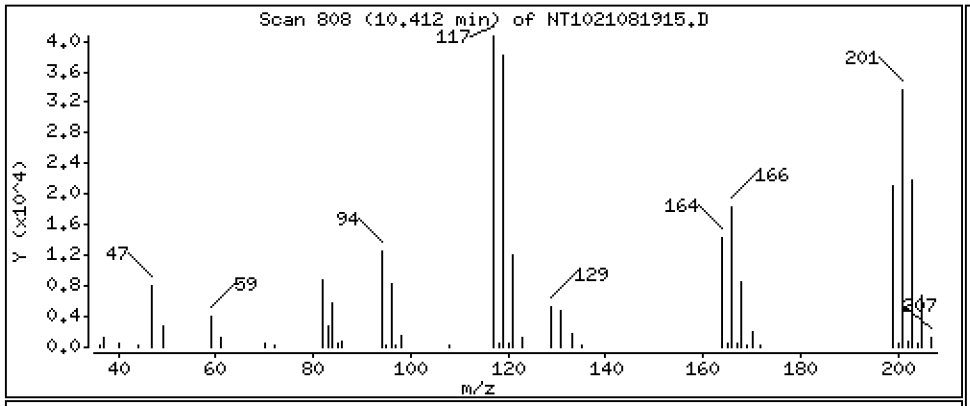
Operator: VTS

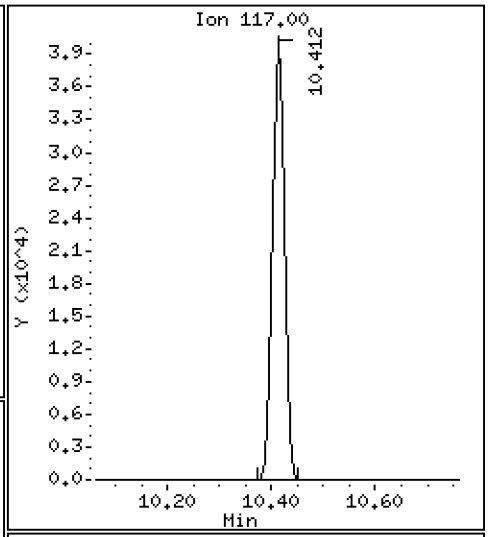
Column phase: ZB-5msi

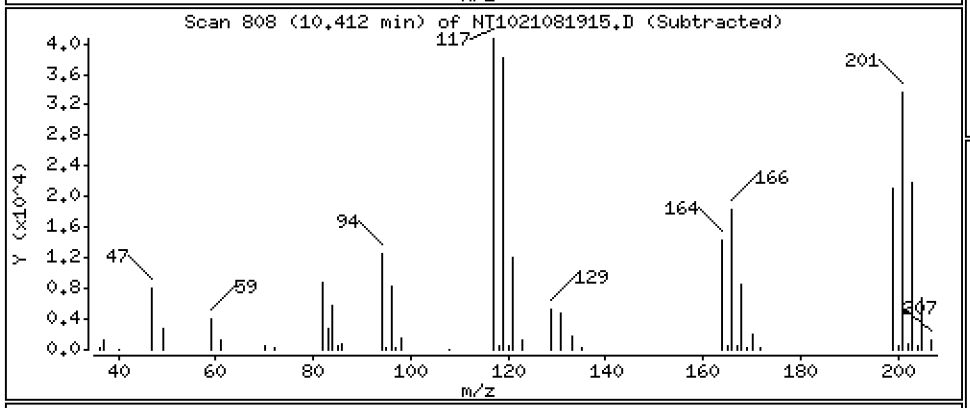
Column diameter: 0.25

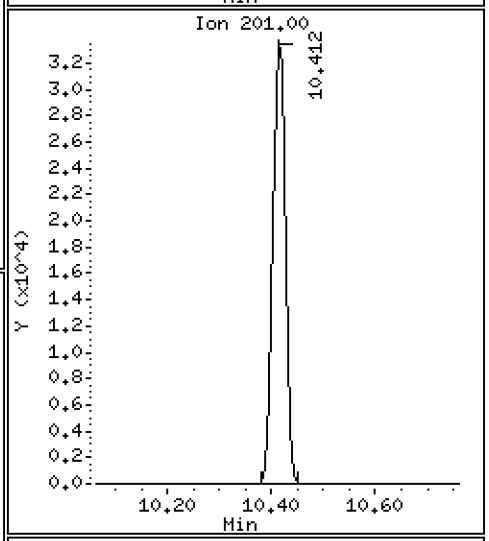
17 Hexachloroethane

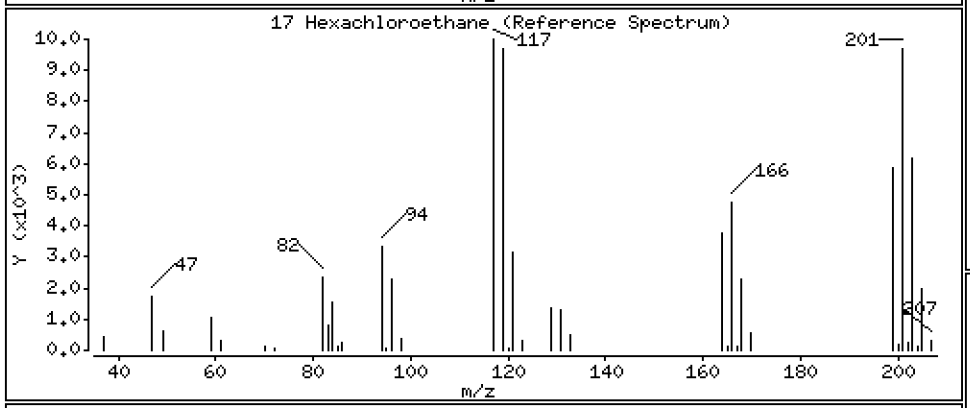
Concentration: 5.674 ug/mL

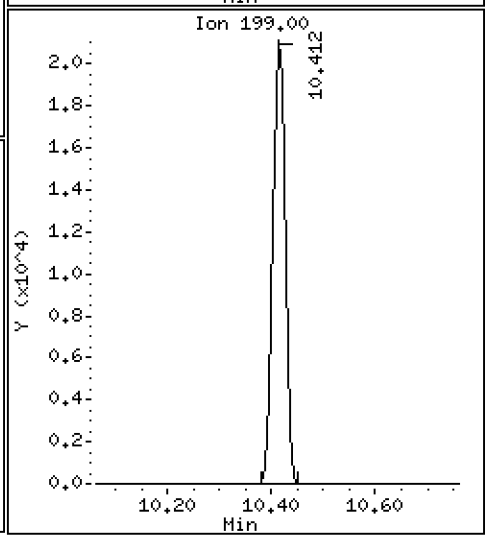


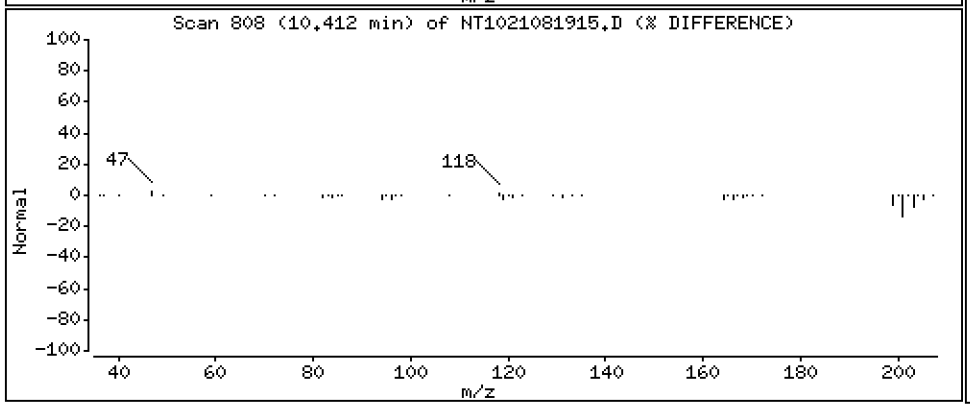












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

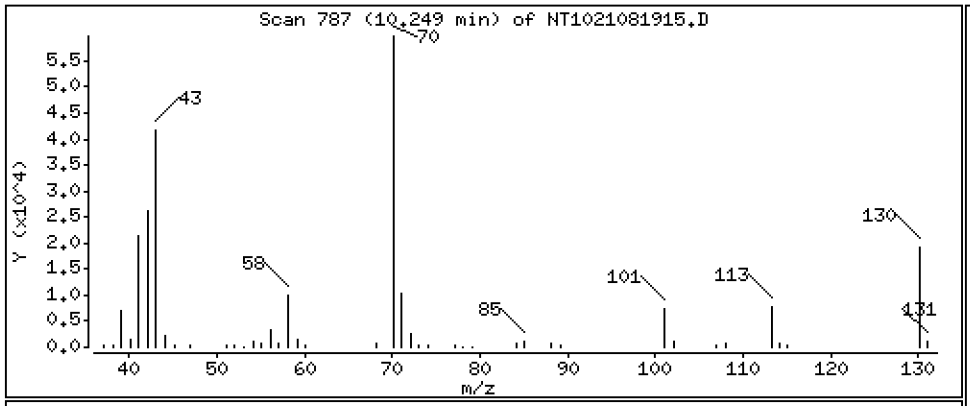
Operator: VTS

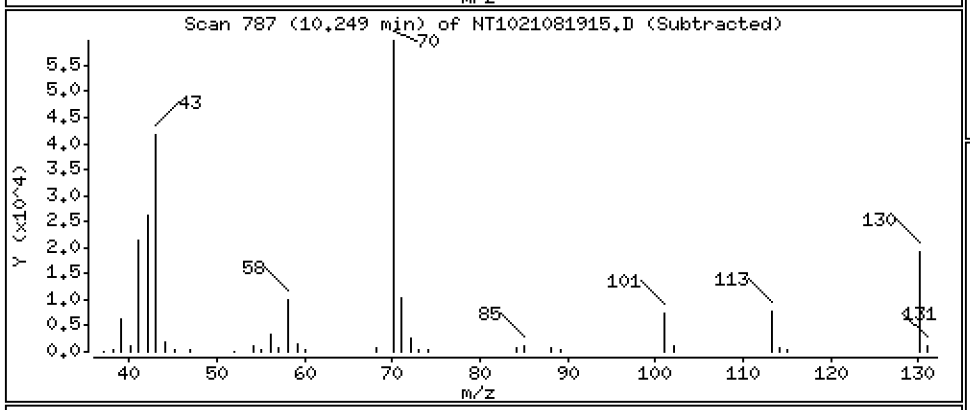
Column phase: ZB-5msi

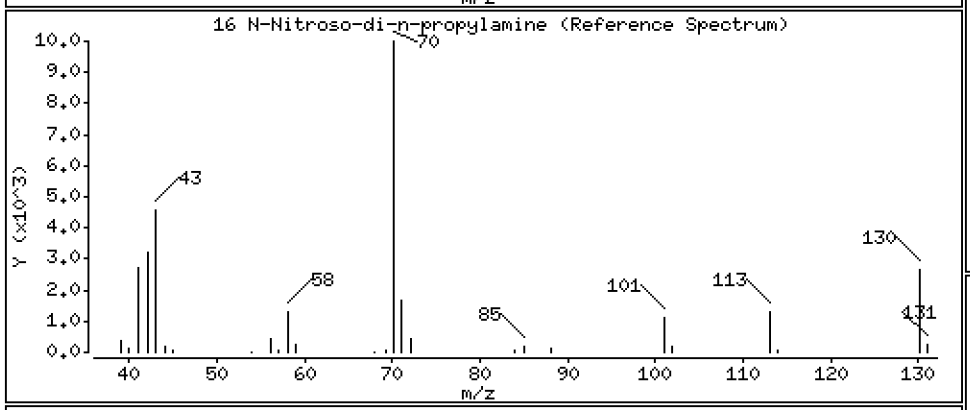
Column diameter: 0.25

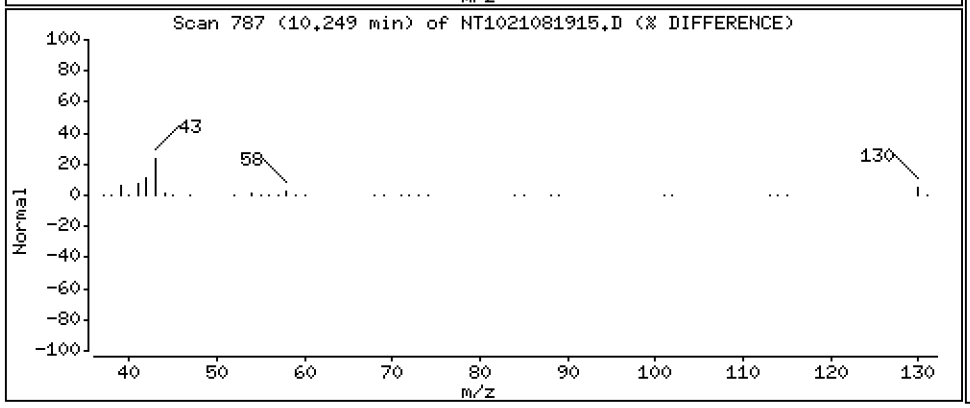
16 N-Nitroso-di-n-propylamine

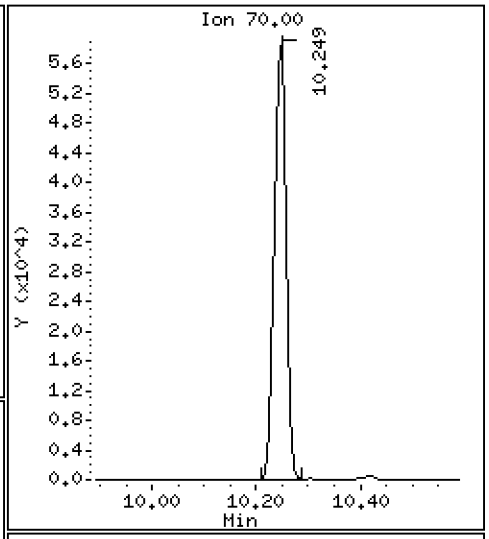
Concentration: 5.292 ug/mL

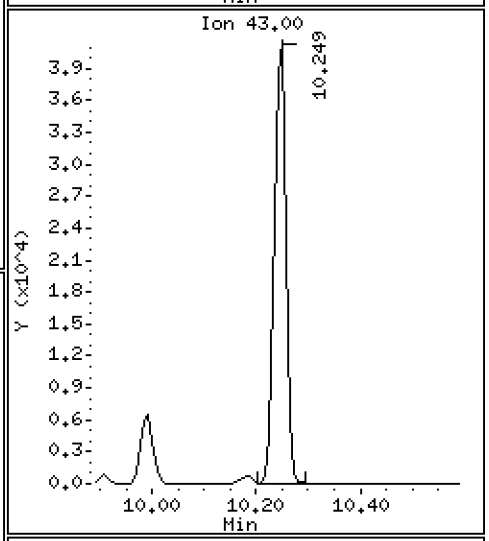


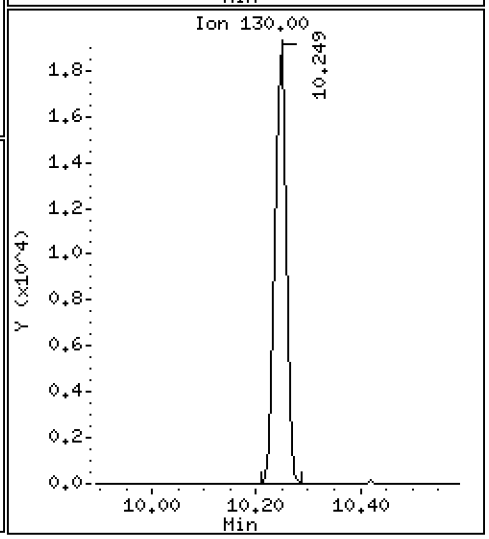












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

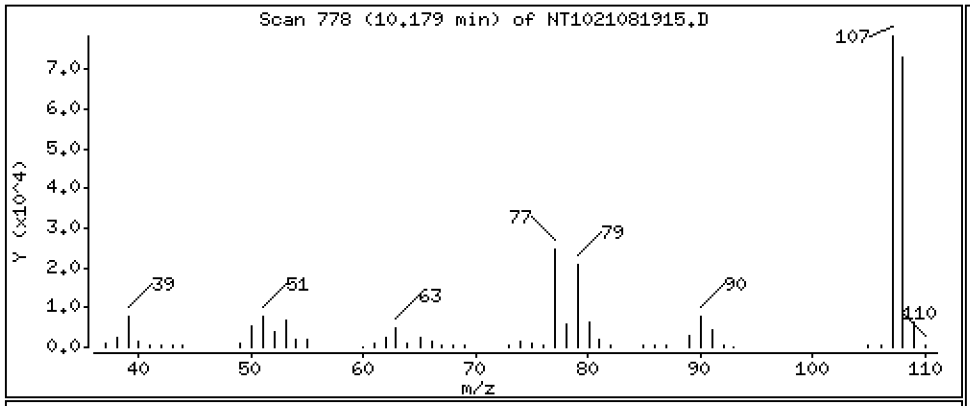
Operator: VTS

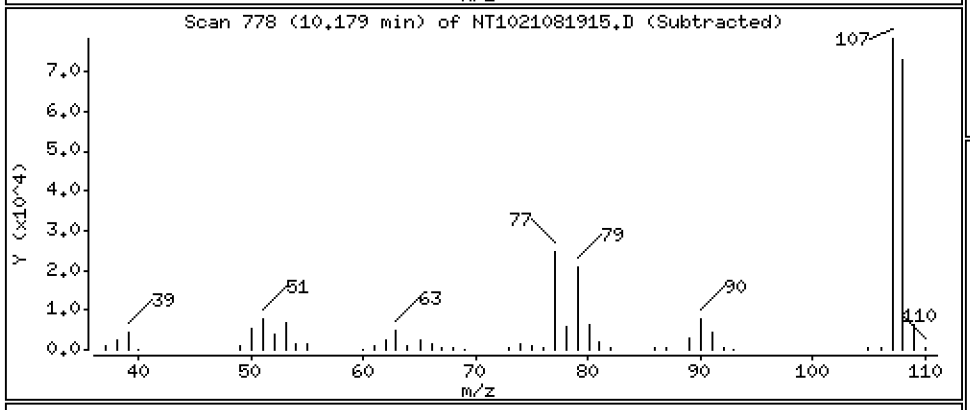
Column phase: ZB-5msi

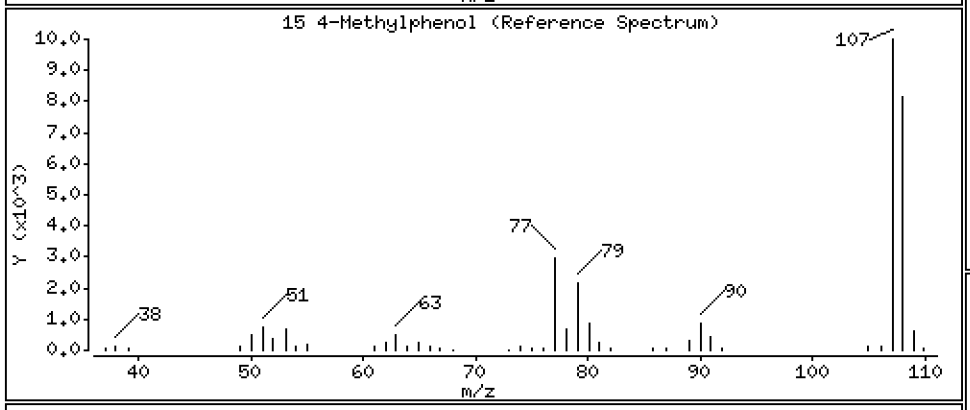
Column diameter: 0.25

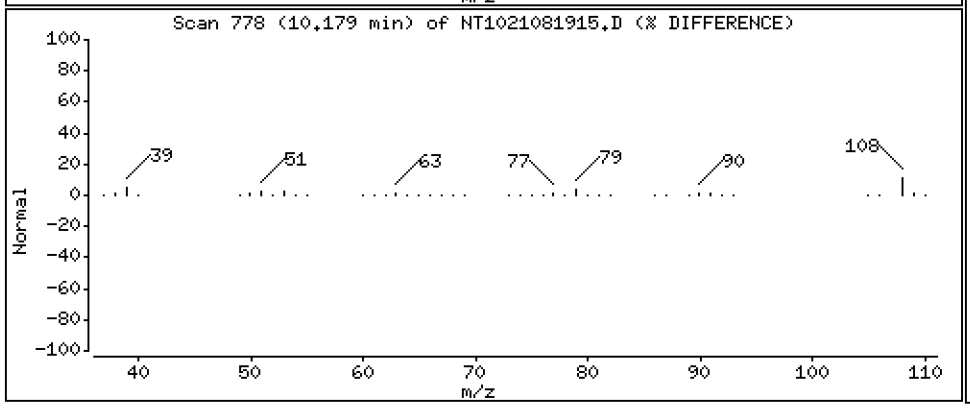
15 4-Methylphenol

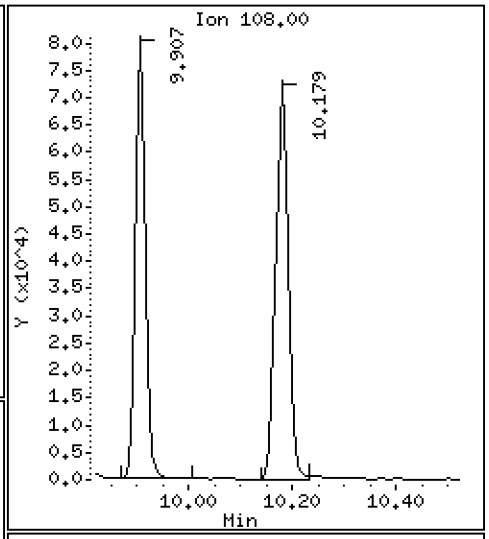
Concentration: 4.688 ug/mL

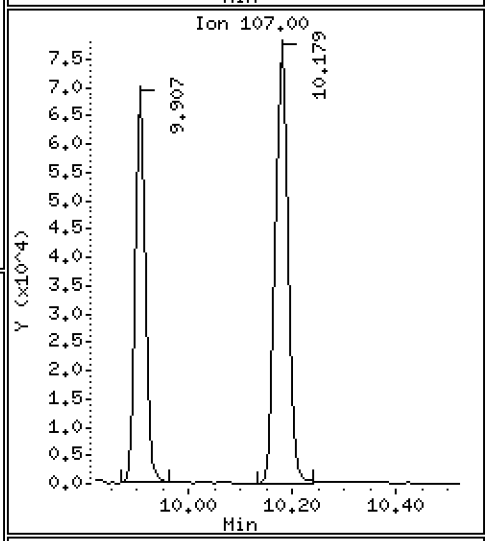


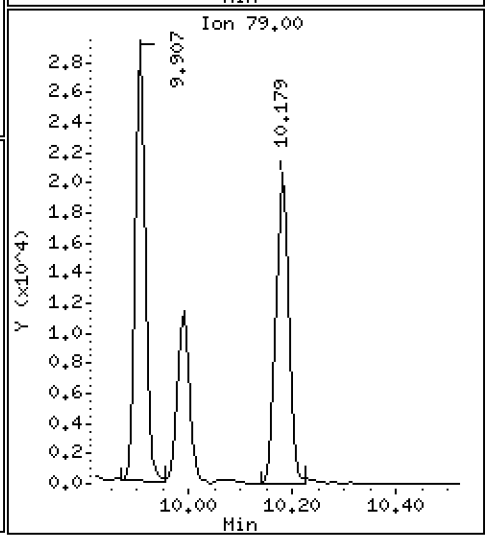












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

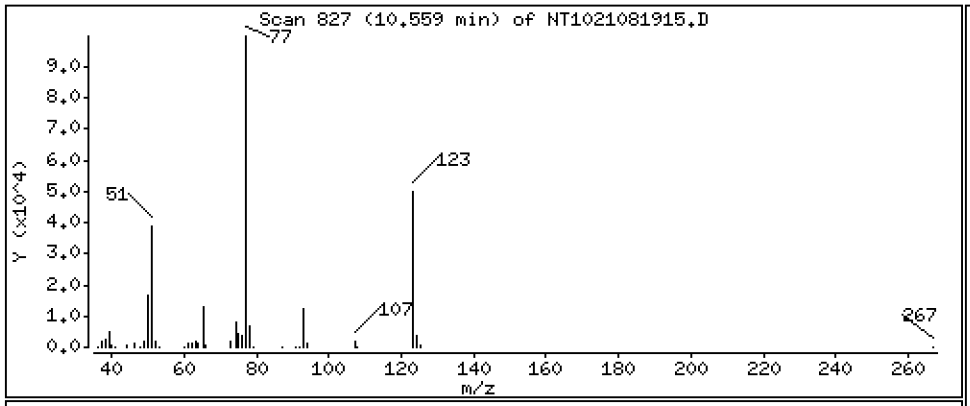
Operator: VTS

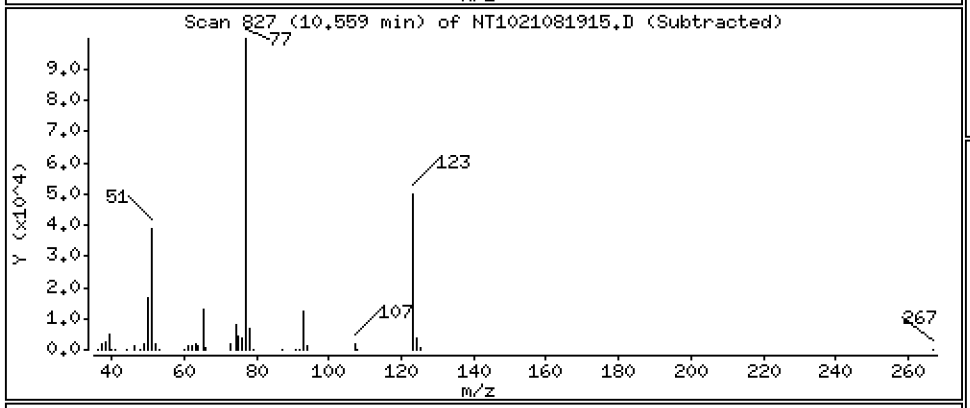
Column phase: ZB-5msi

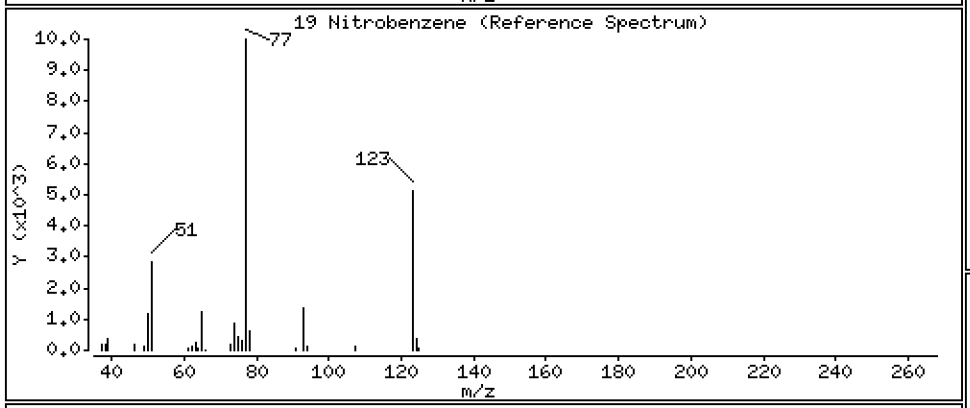
Column diameter: 0.25

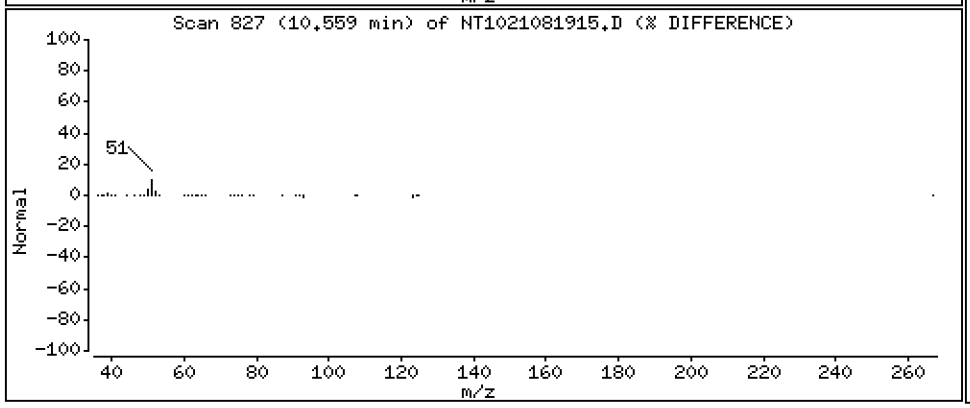
19 Nitrobenzene

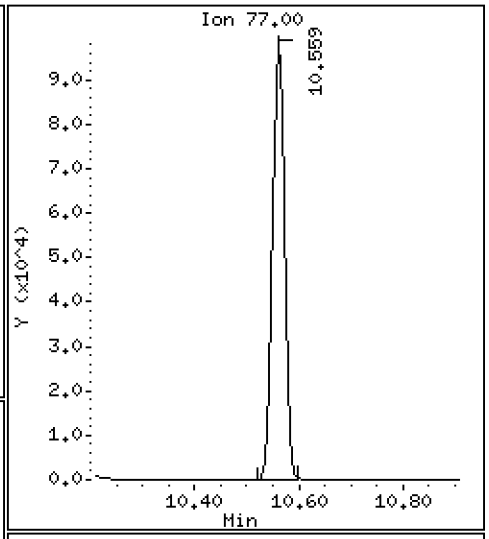
Concentration: 5.403 ug/mL

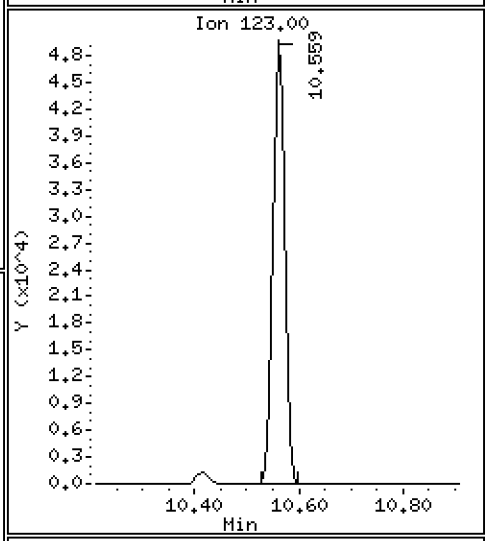


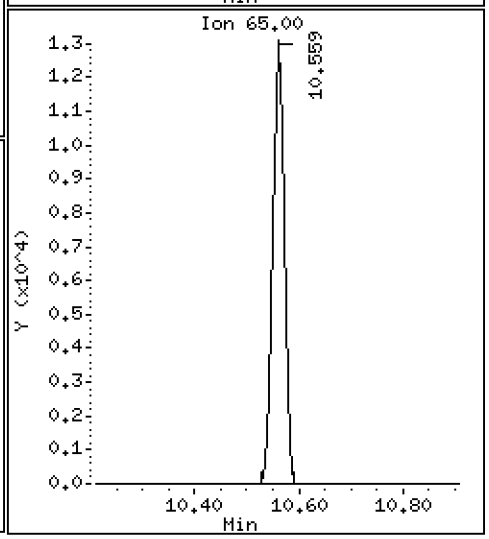












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

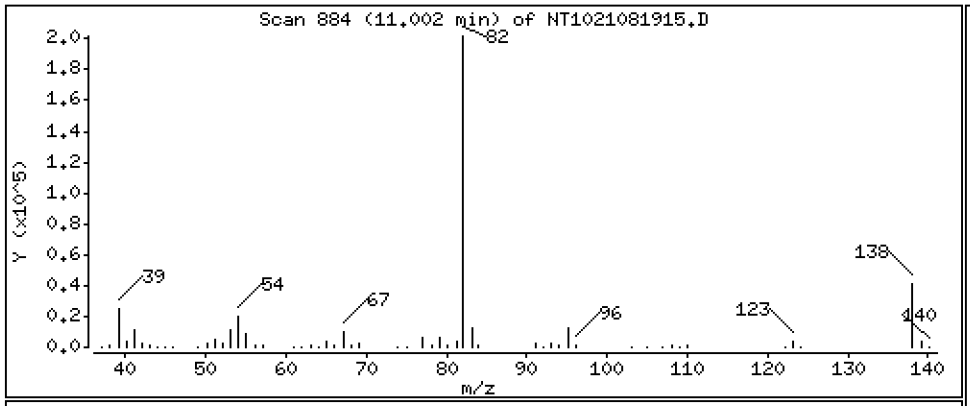
Operator: VTS

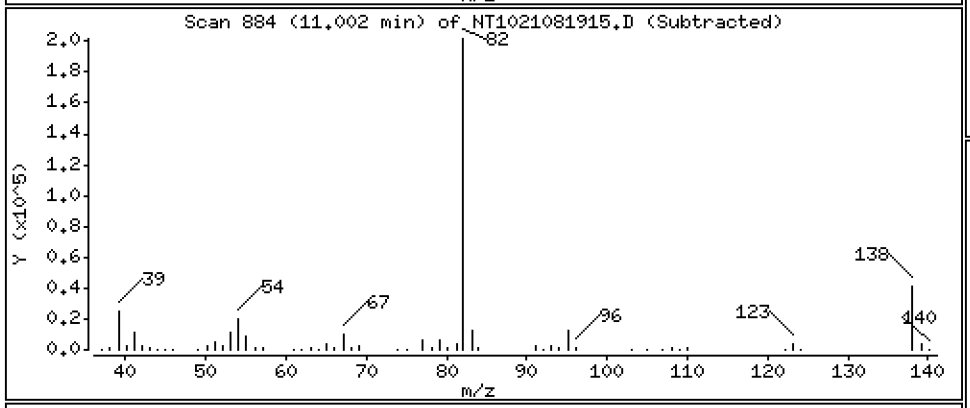
Column phase: ZB-5msi

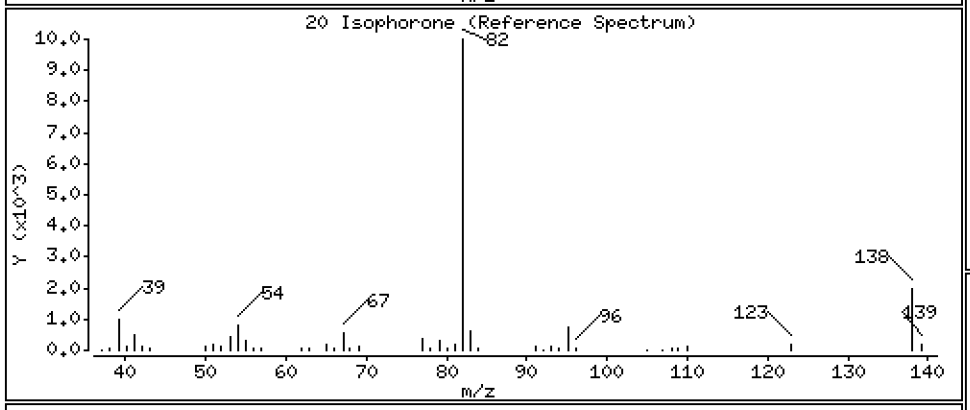
Column diameter: 0.25

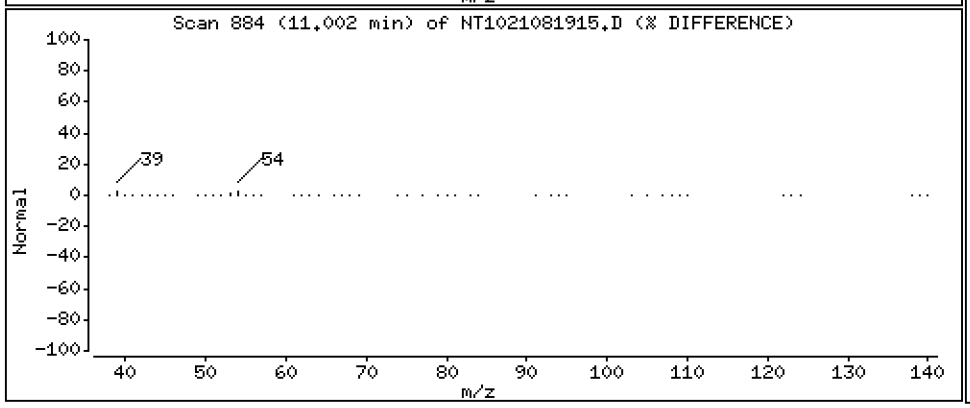
20 Isophorone

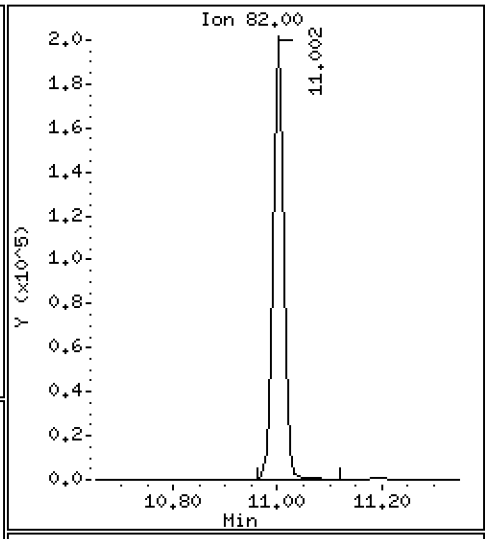
Concentration: 7.778 ug/mL

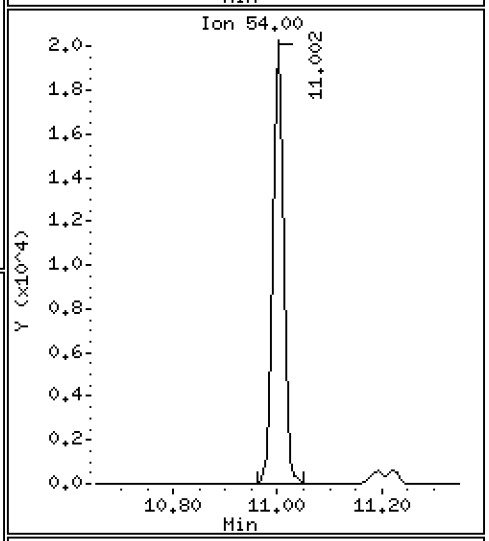


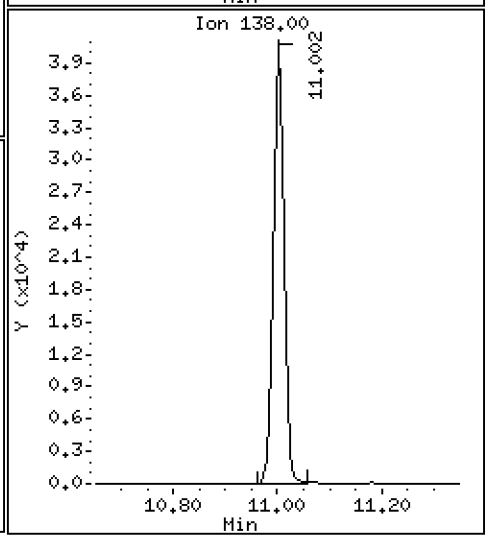












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

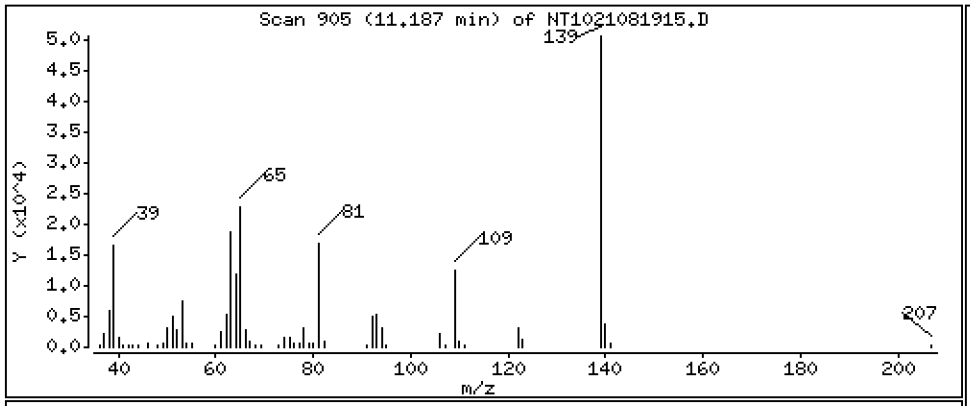
Operator: VTS

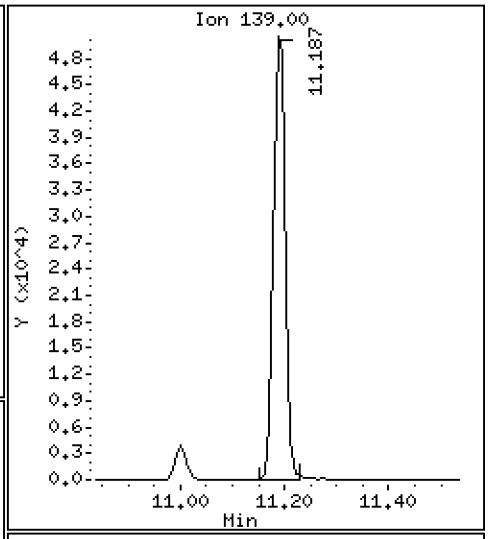
Column phase: ZB-5msi

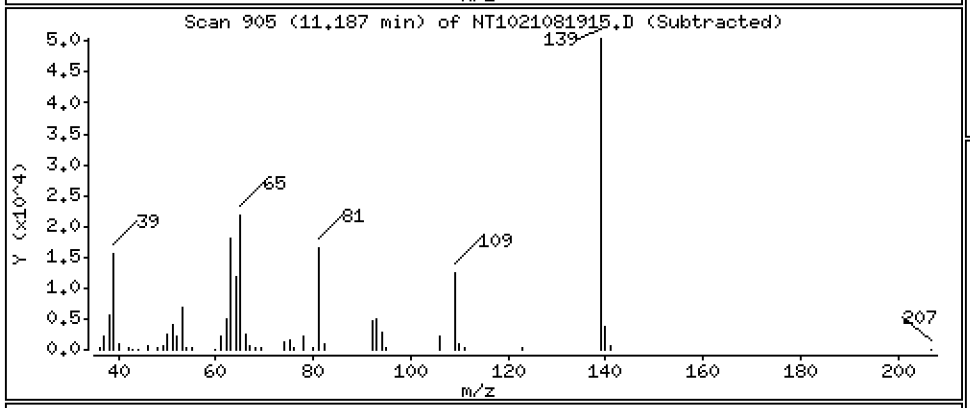
Column diameter: 0.25

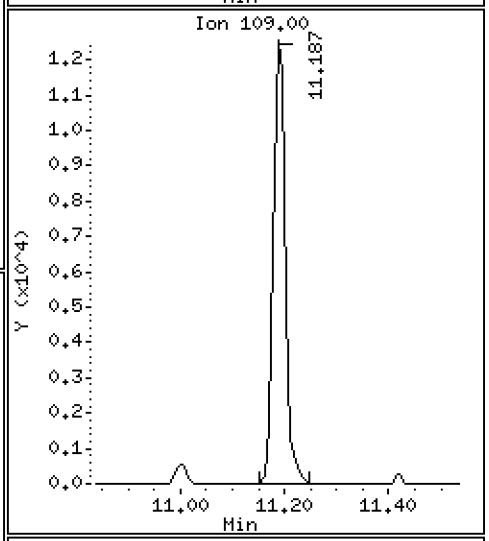
21 2-Nitrophenol

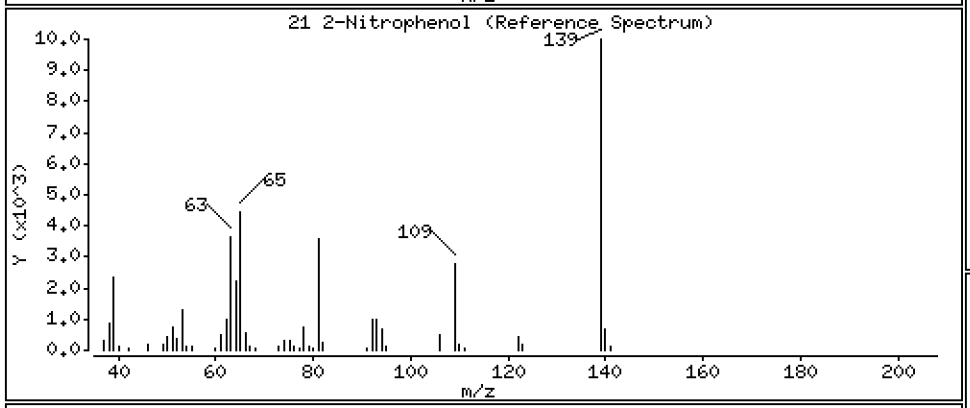
Concentration: 5.178 ug/mL

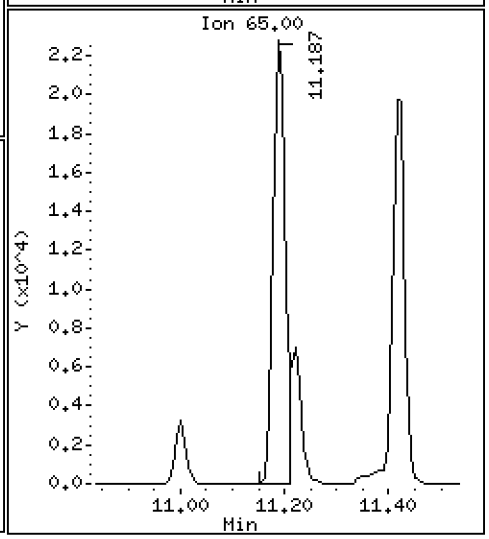


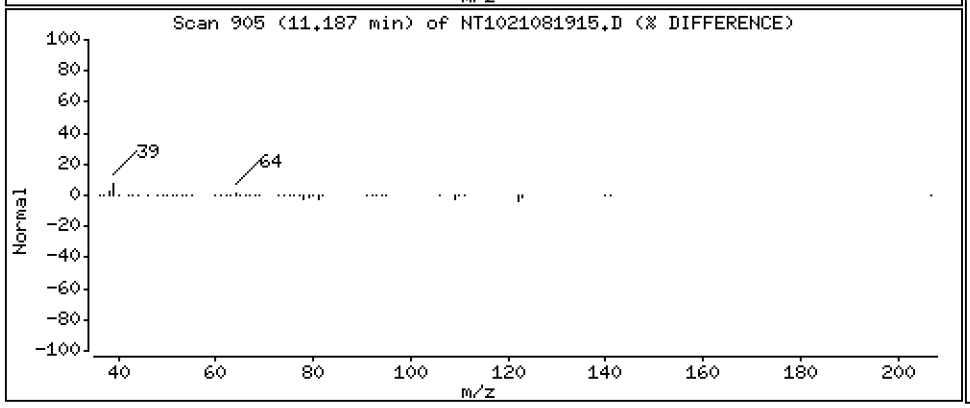












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

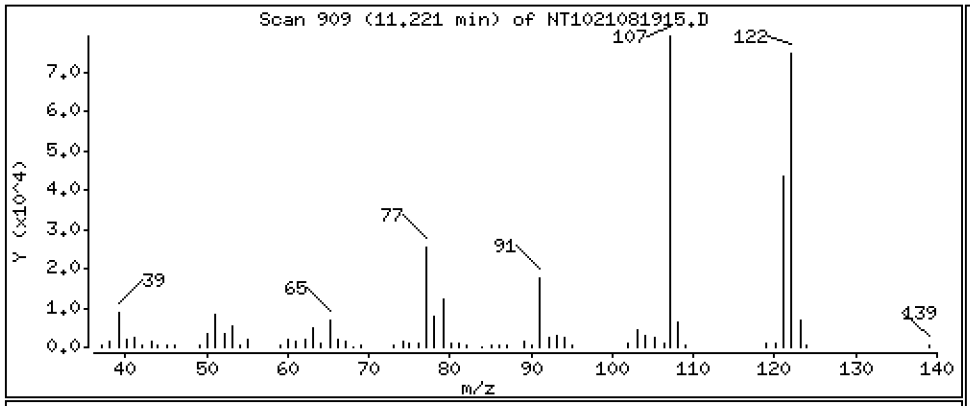
Operator: VTS

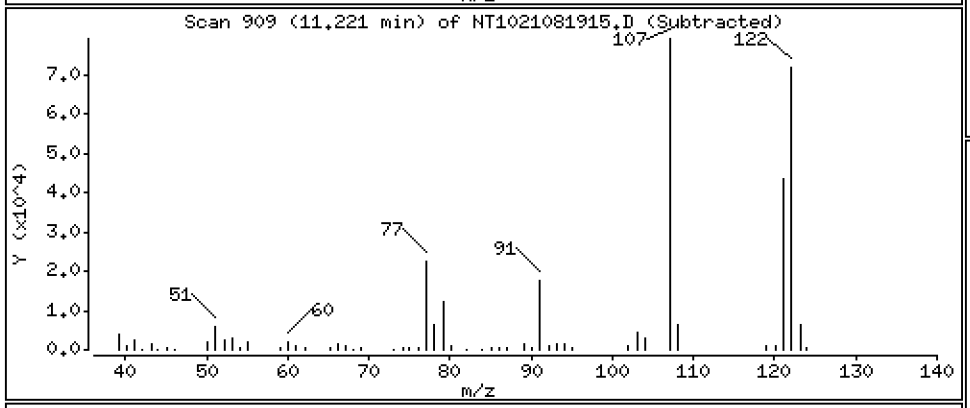
Column phase: ZB-5msi

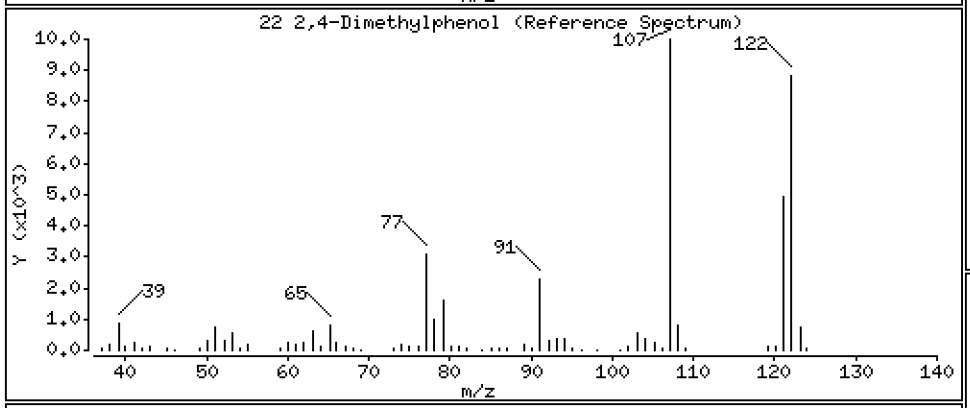
Column diameter: 0.25

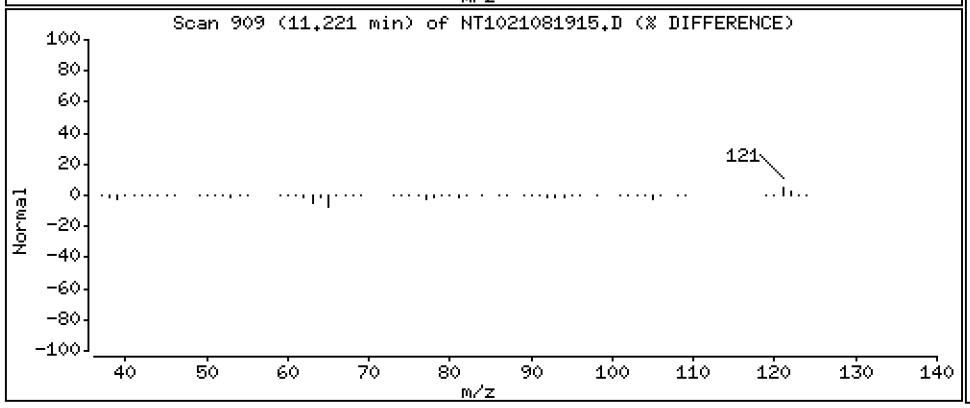
22 2,4-Dimethylphenol

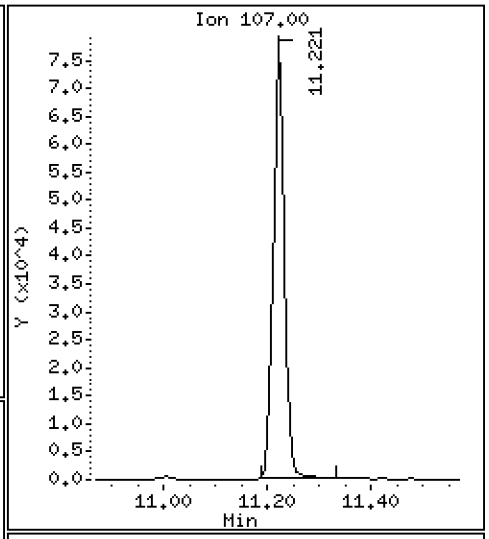
Concentration: 4.920 ug/mL

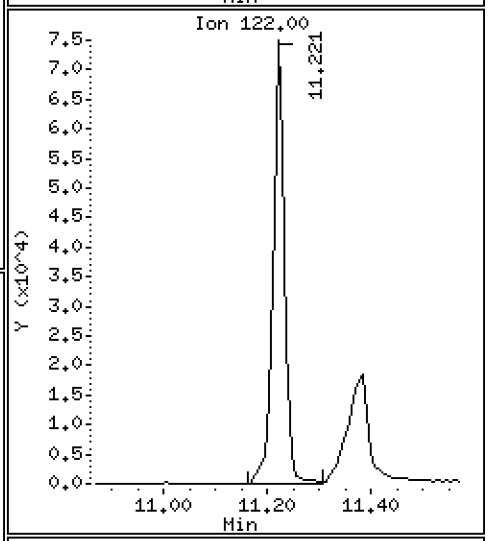


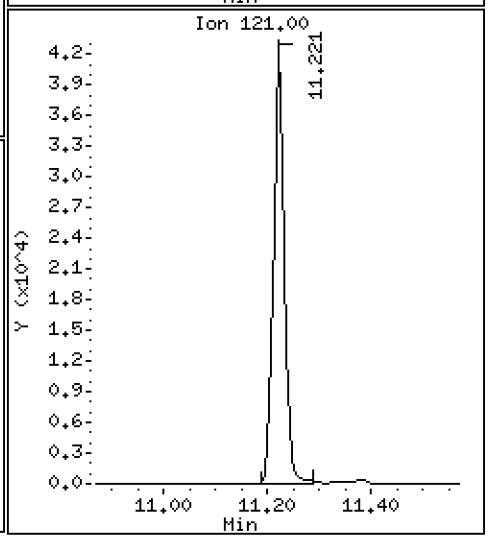












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

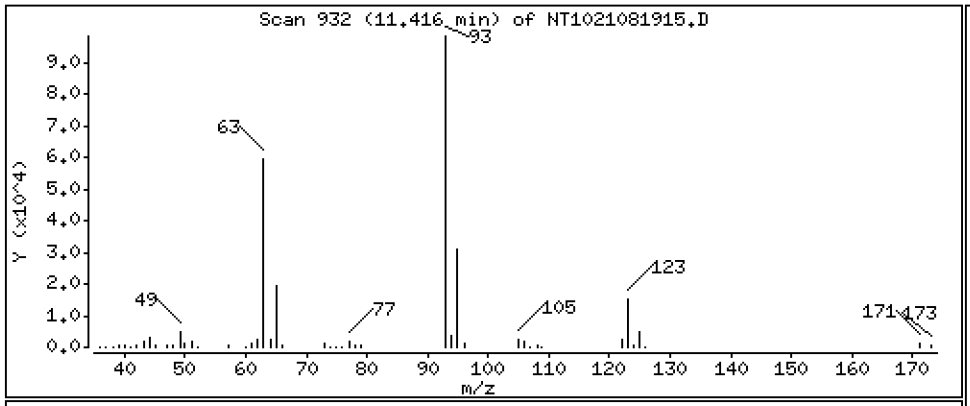
Operator: VTS

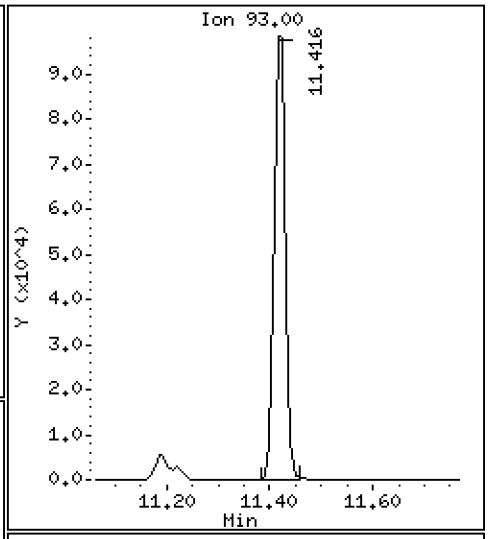
Column phase: ZB-5msi

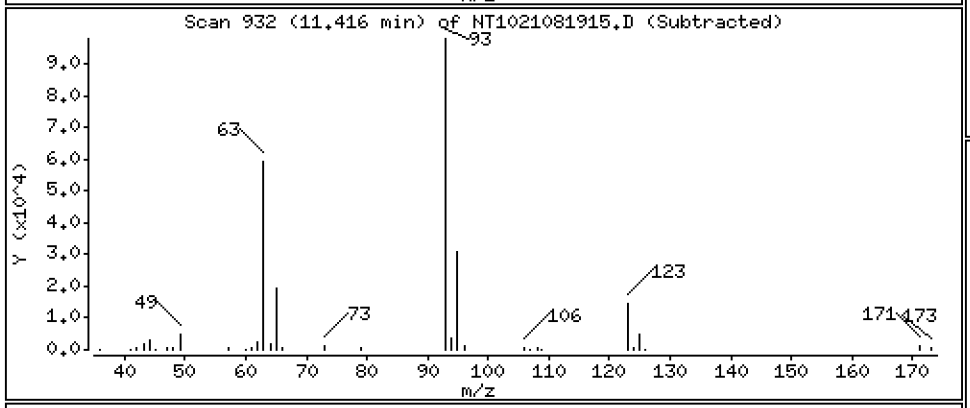
Column diameter: 0.25

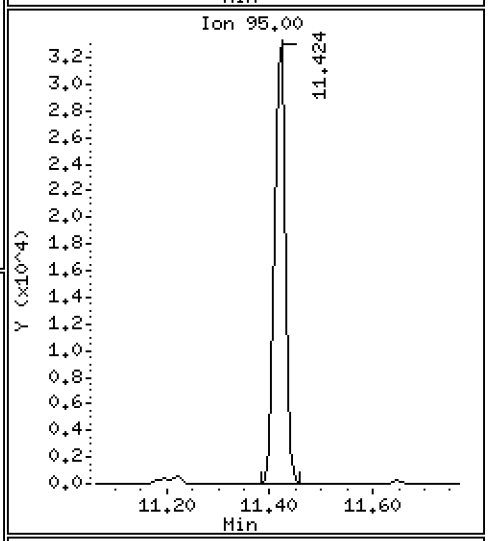
23 Bis(2-Chloroethoxy)methane

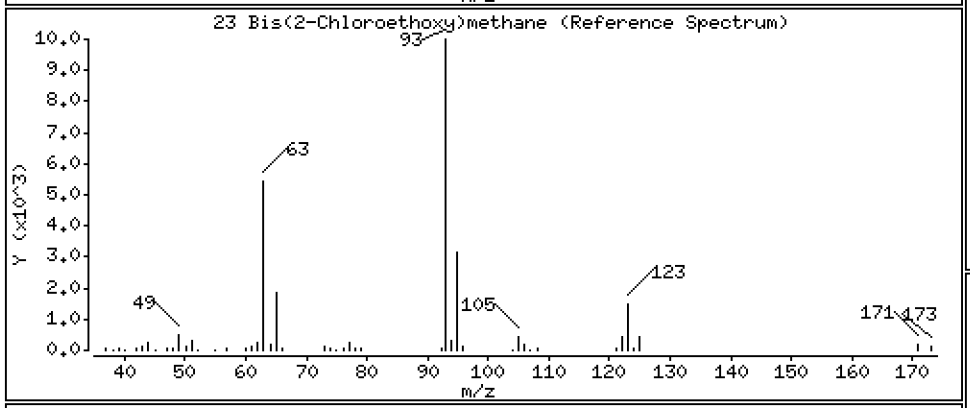
Concentration: 5.938 ug/mL

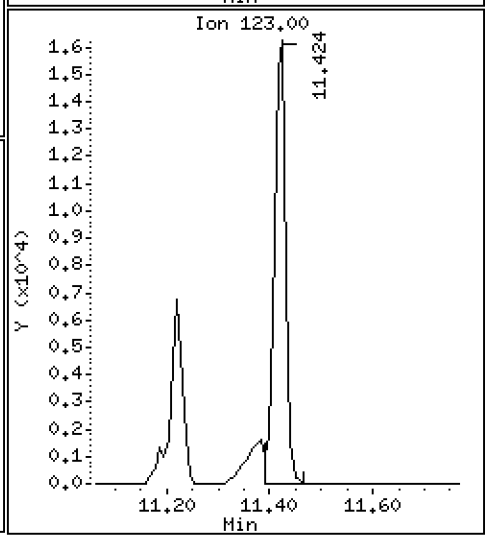


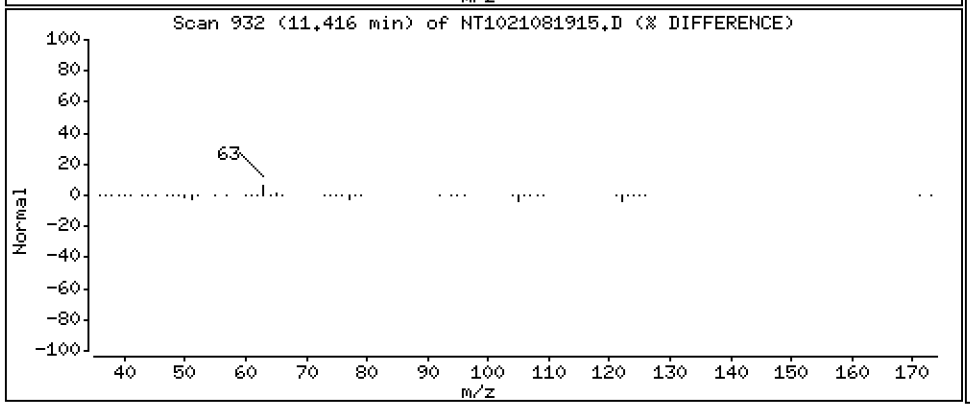












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

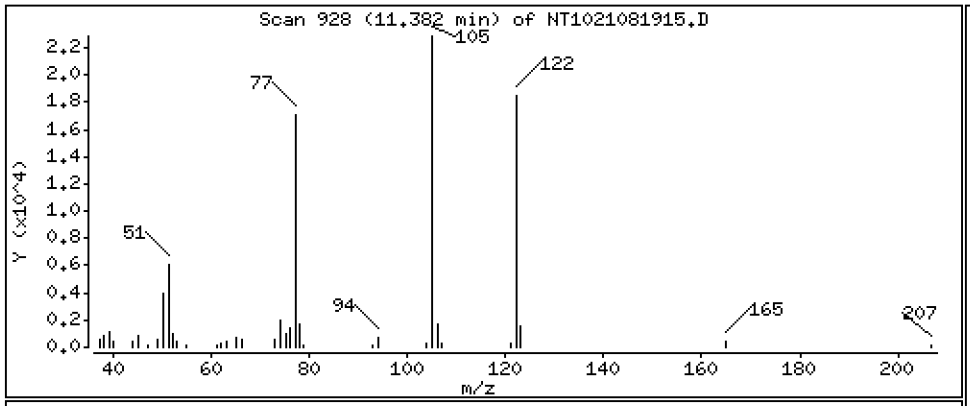
Operator: VTS

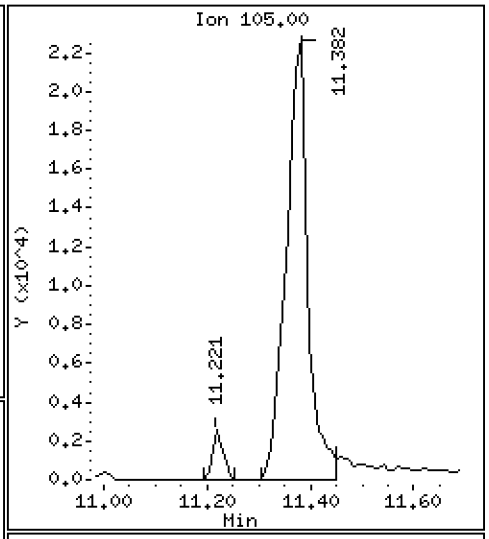
Column phase: ZB-5msi

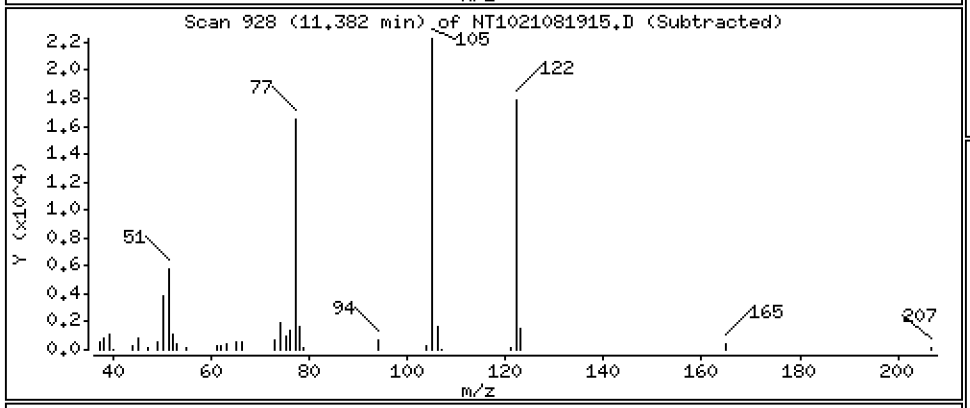
Column diameter: 0.25

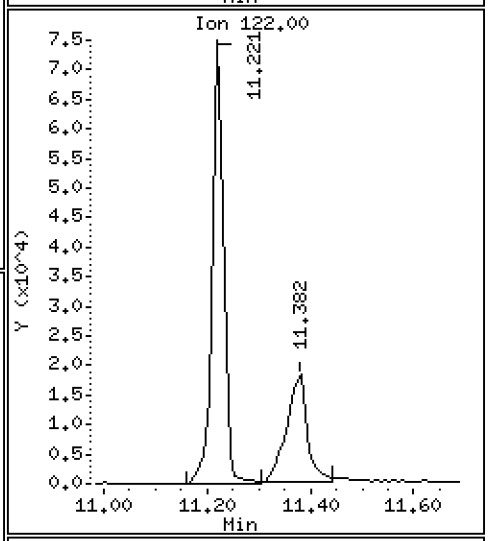
24 Benzoic acid

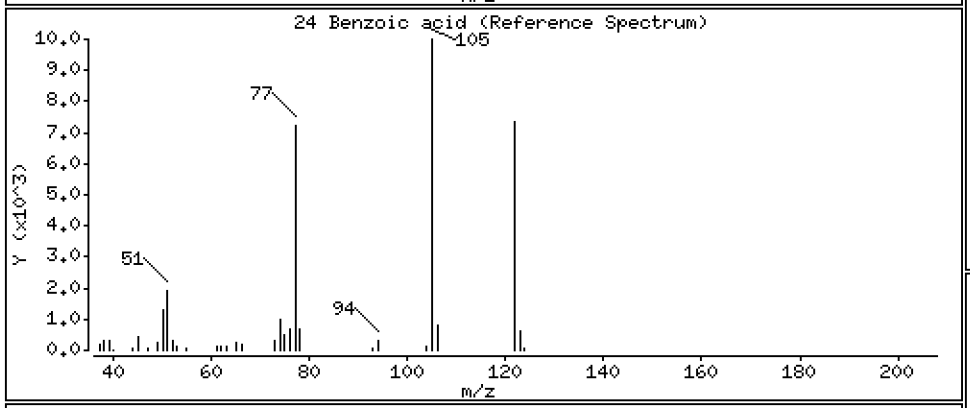
Concentration: 5.378 ug/mL

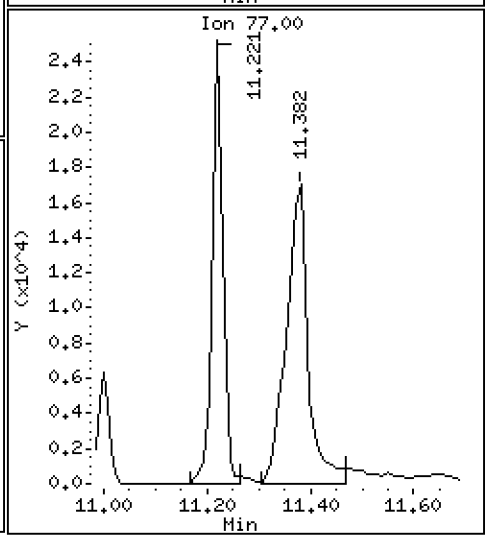


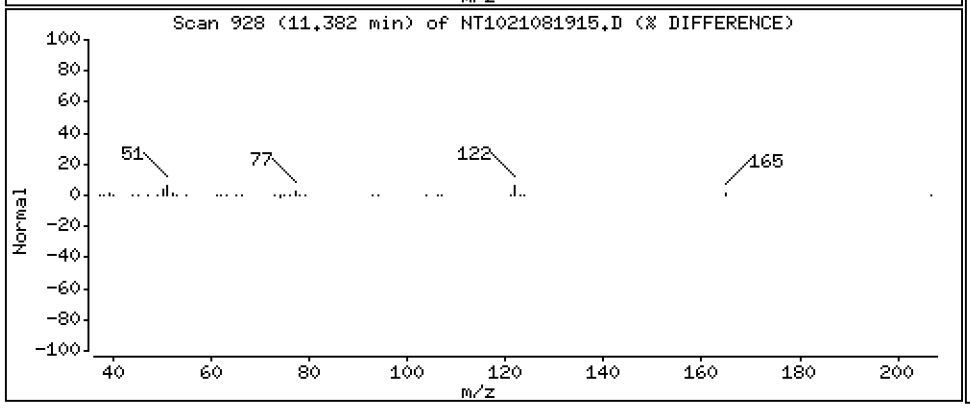












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

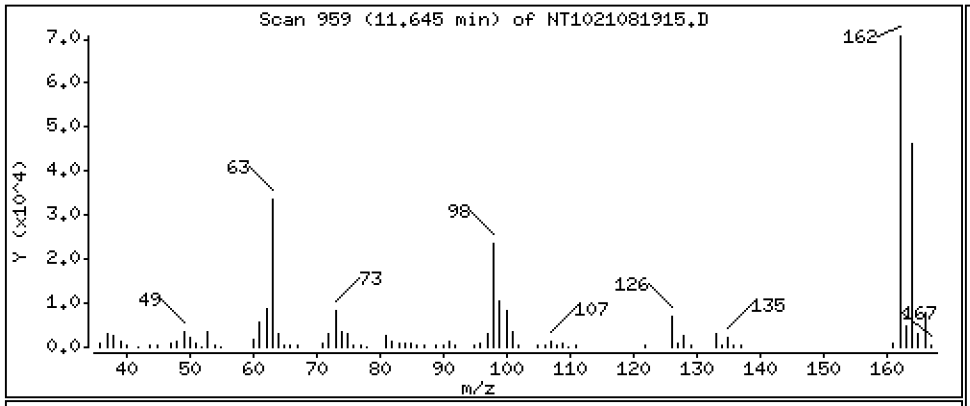
Operator: VTS

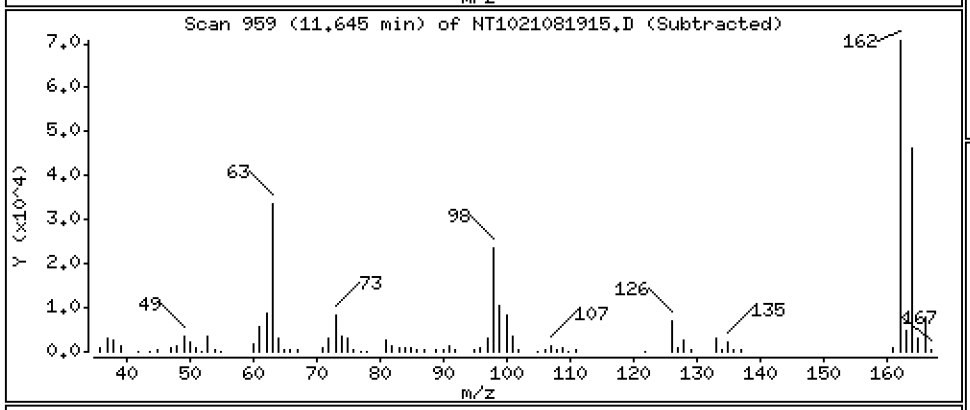
Column phase: ZB-5msi

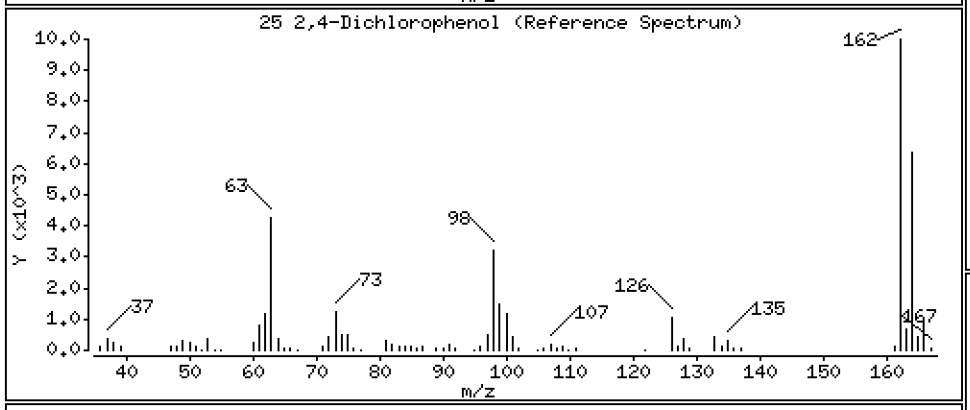
Column diameter: 0.25

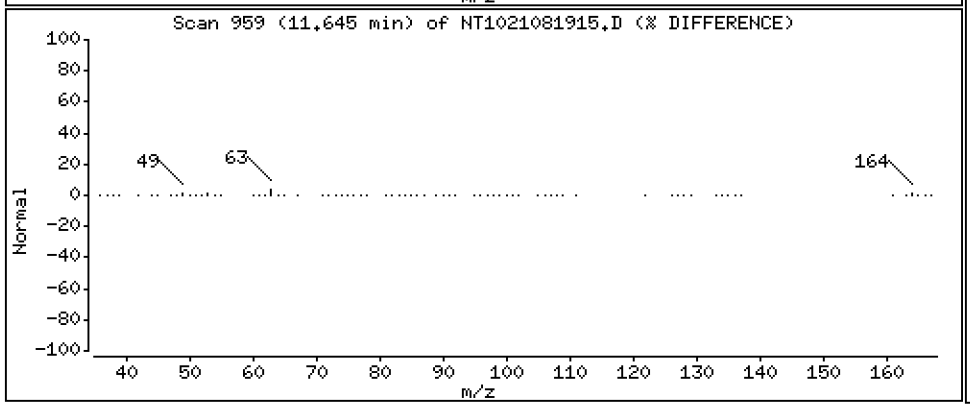
25 2,4-Dichlorophenol

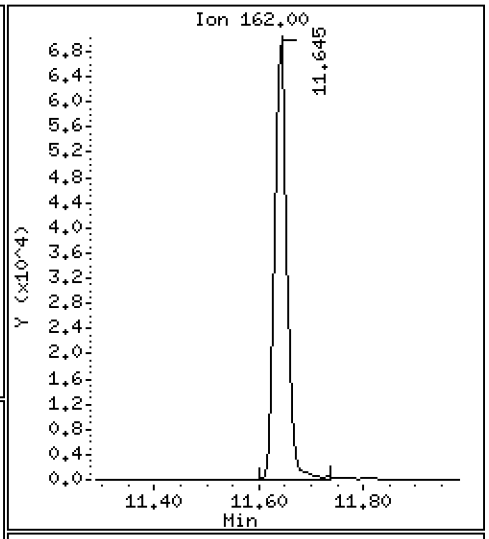
Concentration: 5.147 ug/mL

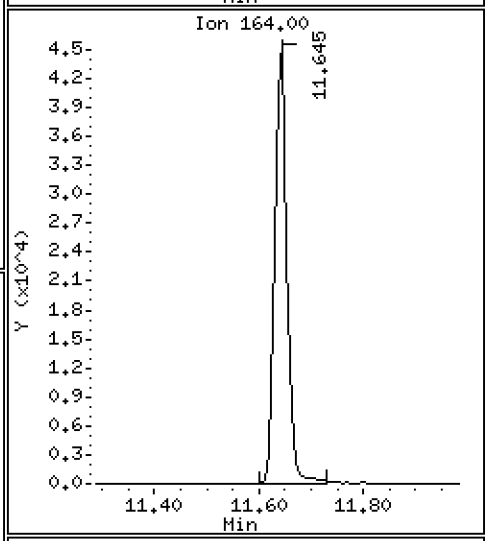


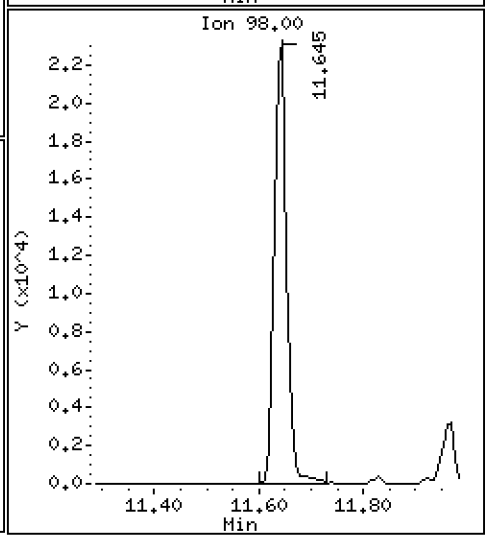












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

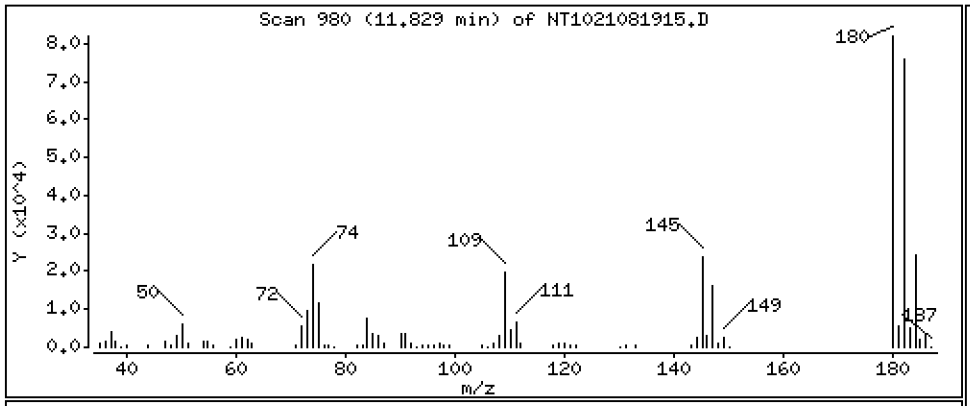
Operator: VTS

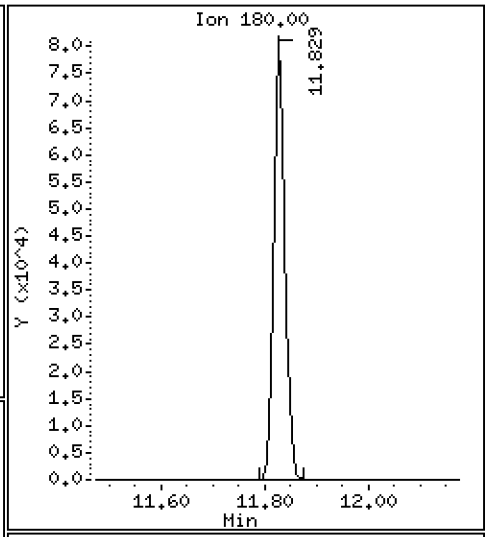
Column phase: ZB-5msi

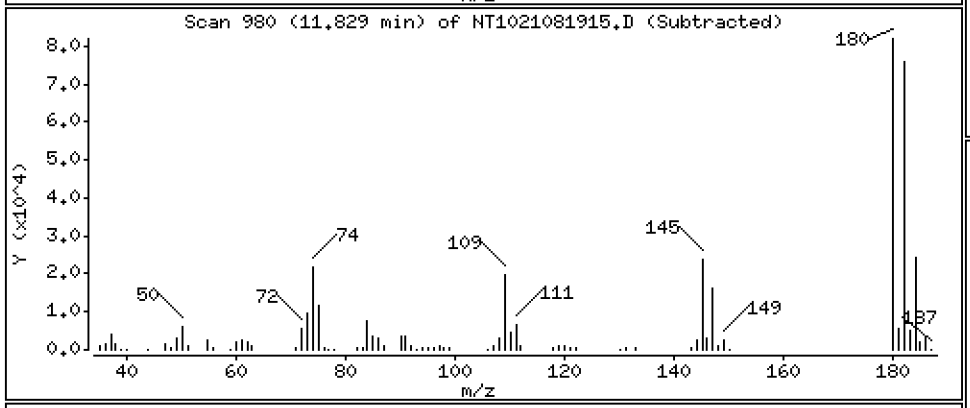
Column diameter: 0.25

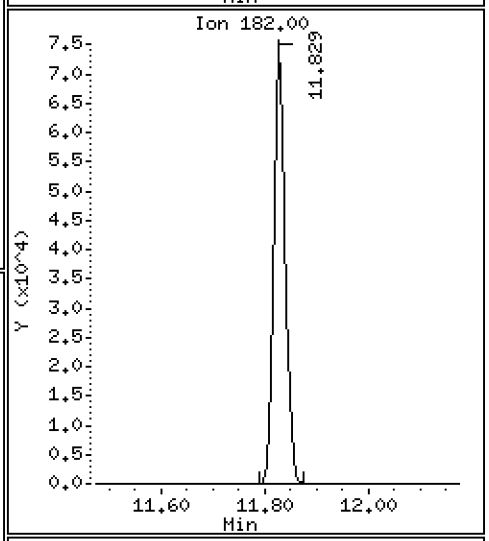
26 1,2,4-Trichlorobenzene

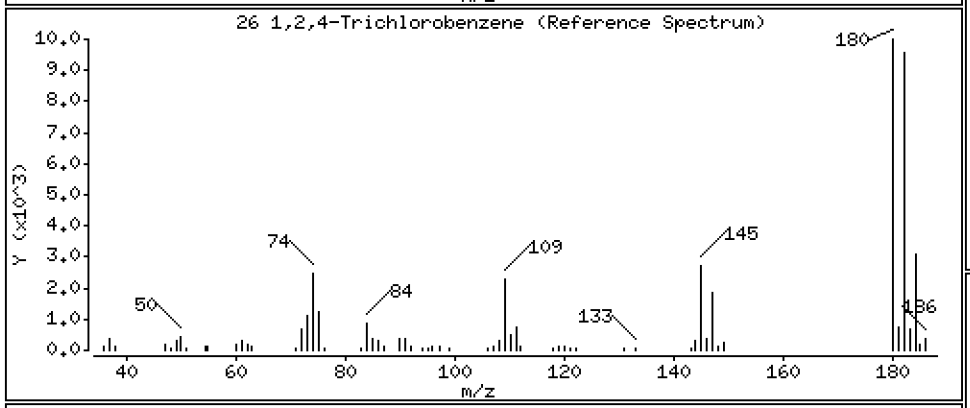
Concentration: 5.000 ug/mL

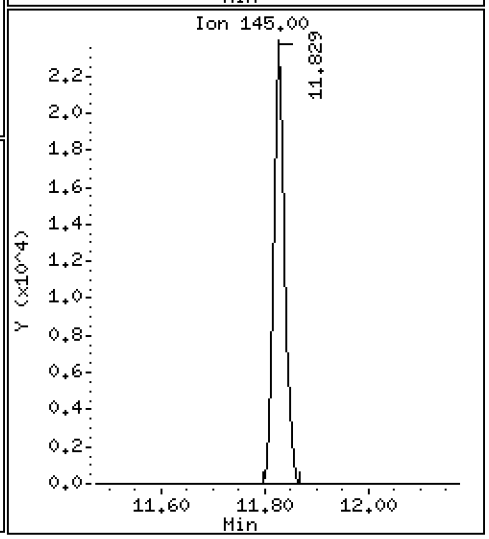


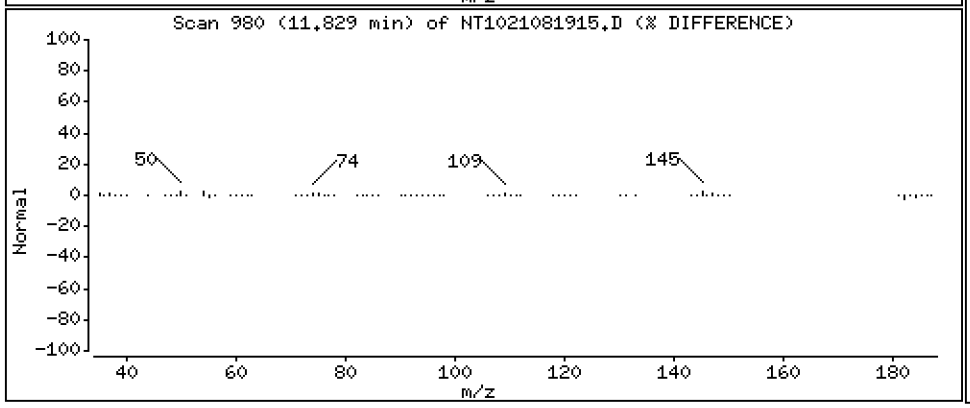












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

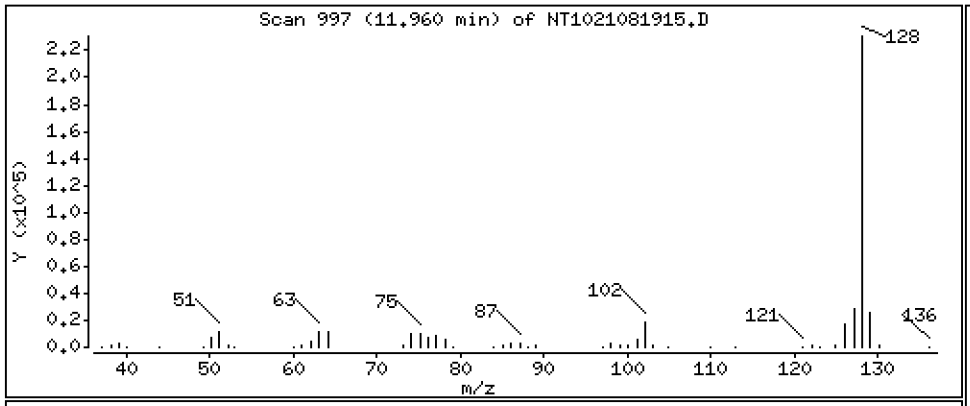
Operator: VTS

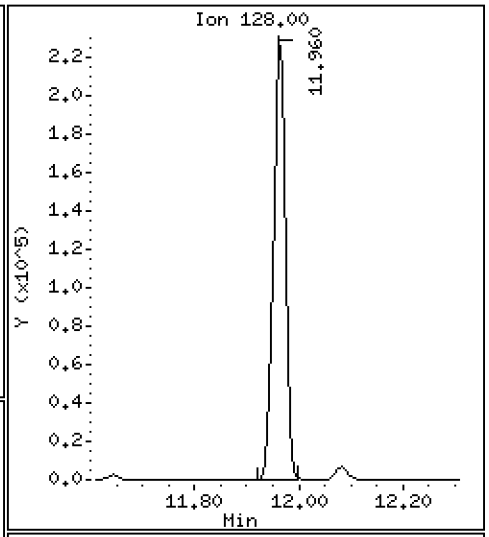
Column phase: ZB-5msi

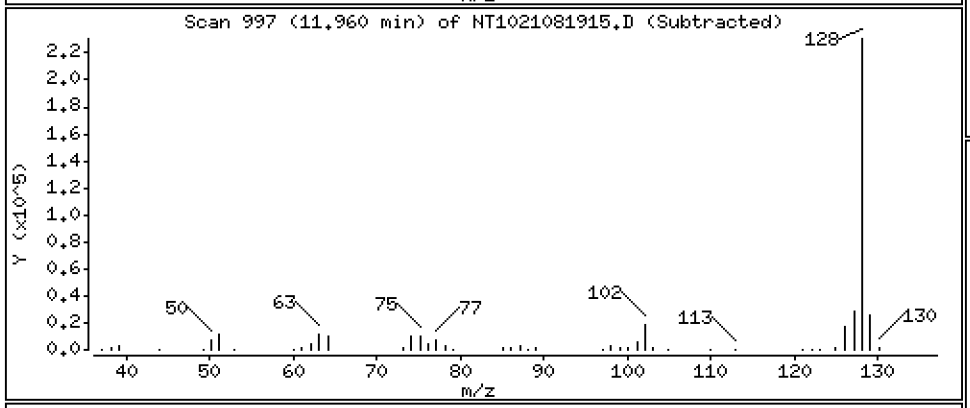
Column diameter: 0.25

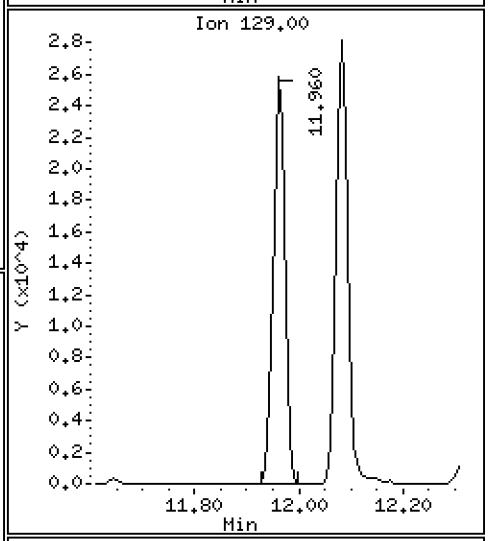
28 Naphthalene

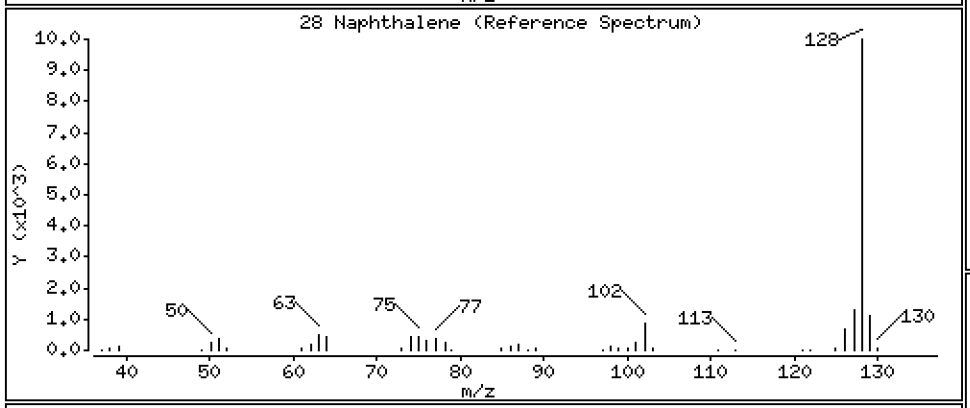
Concentration: 5.100 ug/mL

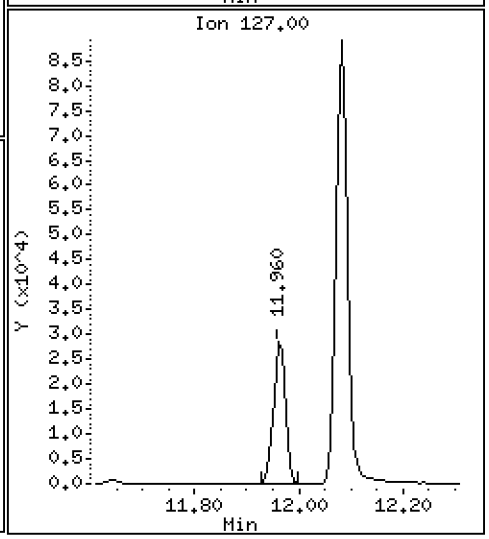


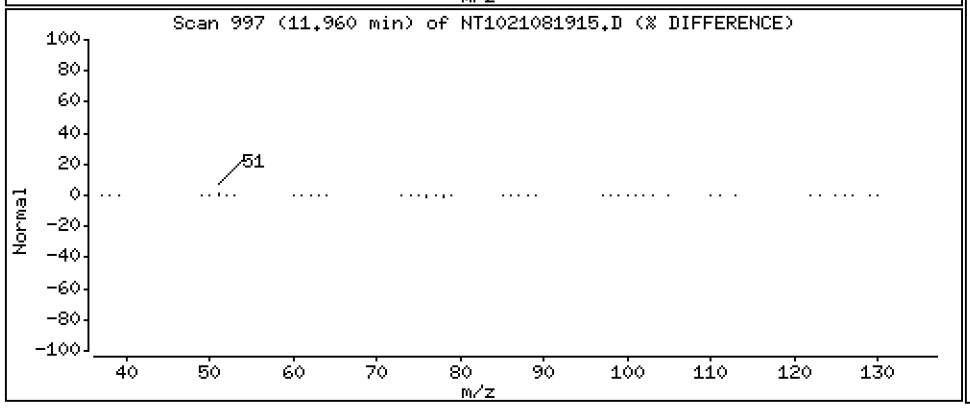












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

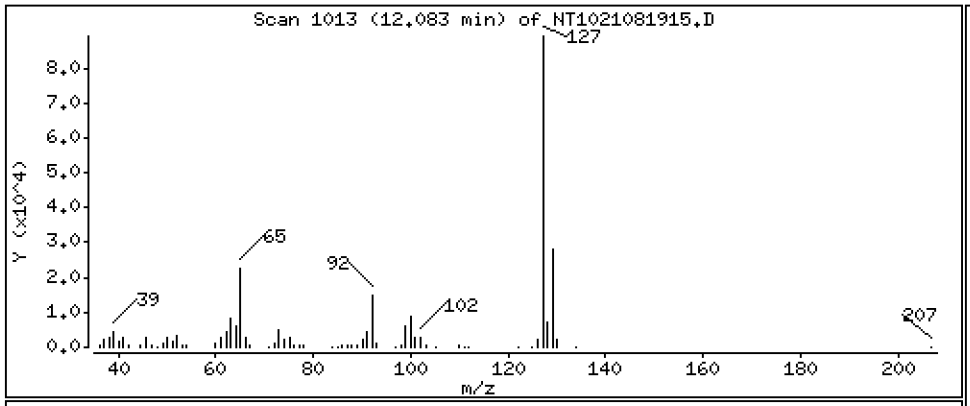
Operator: VTS

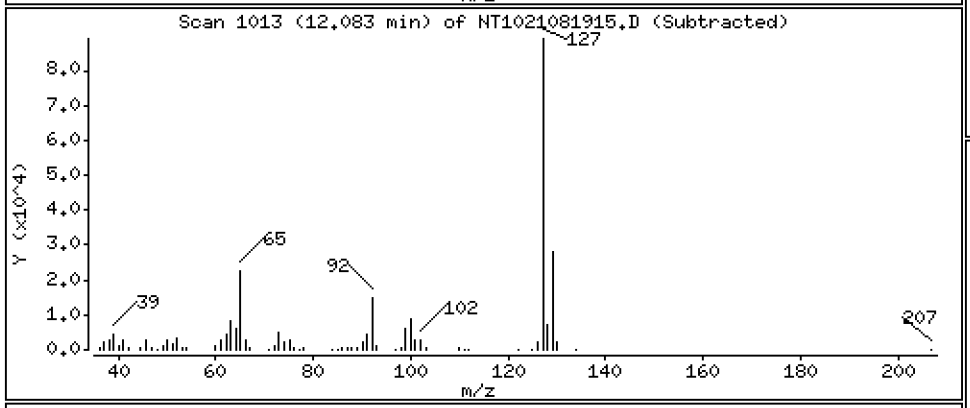
Column phase: ZB-5msi

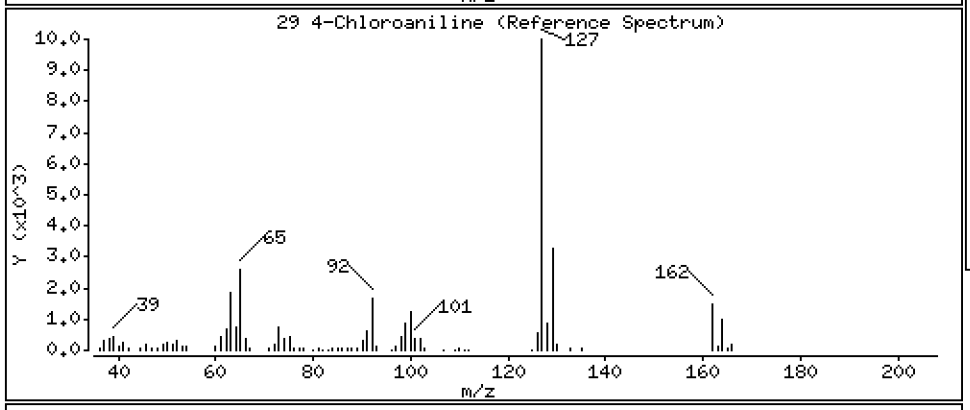
Column diameter: 0.25

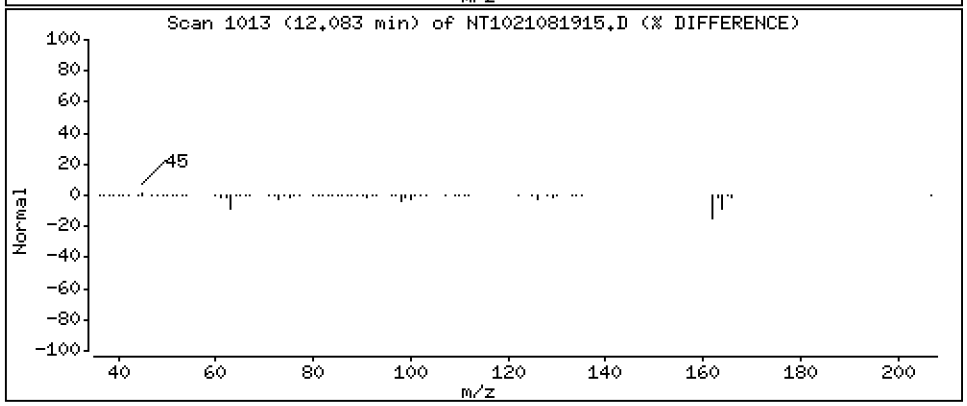
29 4-Chloroaniline

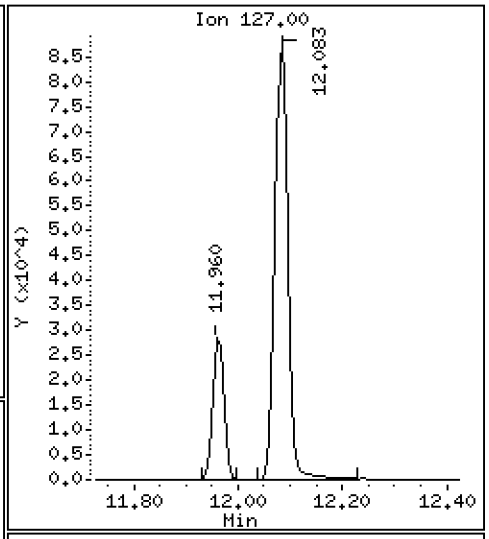
Concentration: 4.593 ug/mL

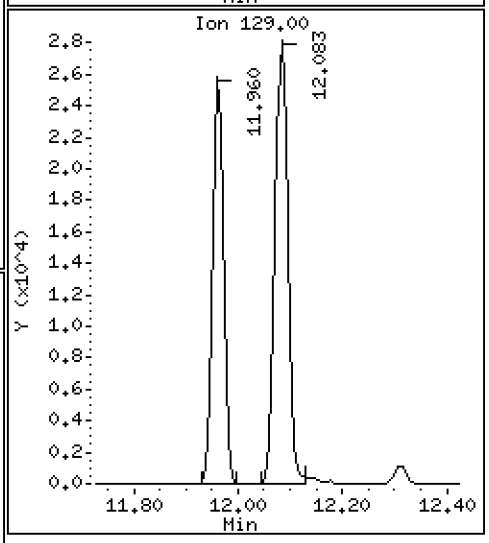












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

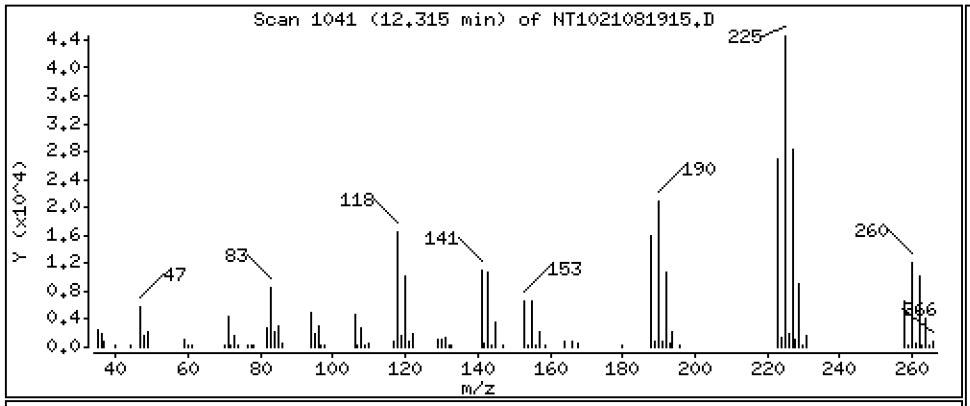
Operator: VTS

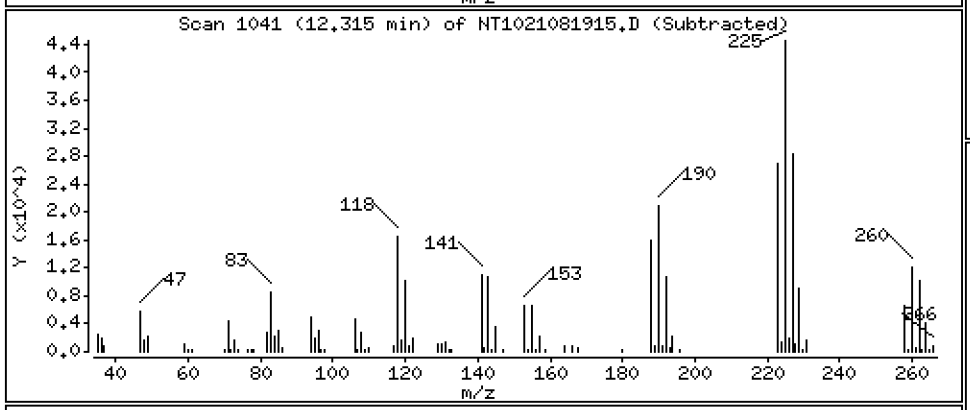
Column phase: ZB-5msi

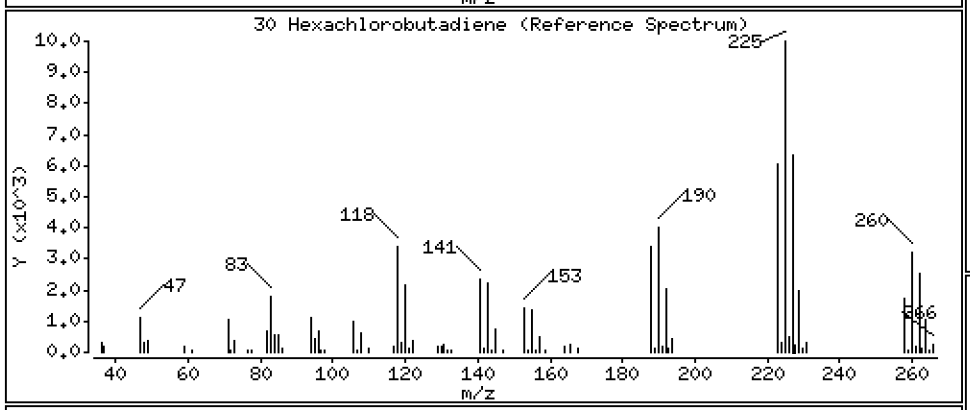
Column diameter: 0.25

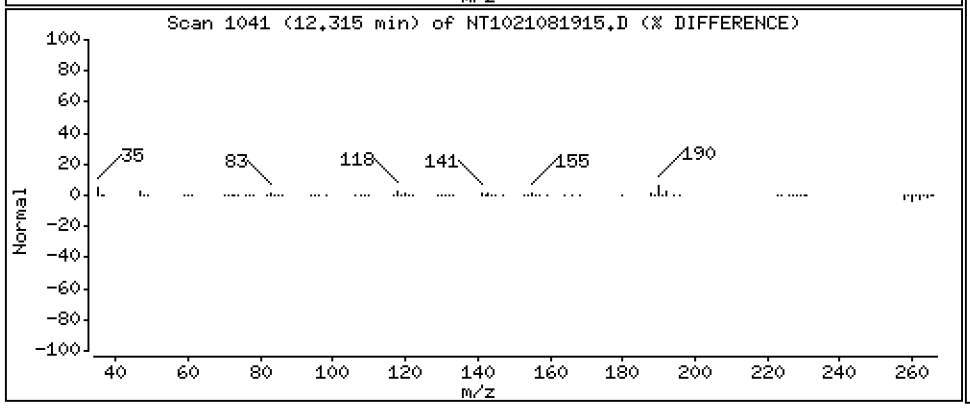
30 Hexachlorobutadiene

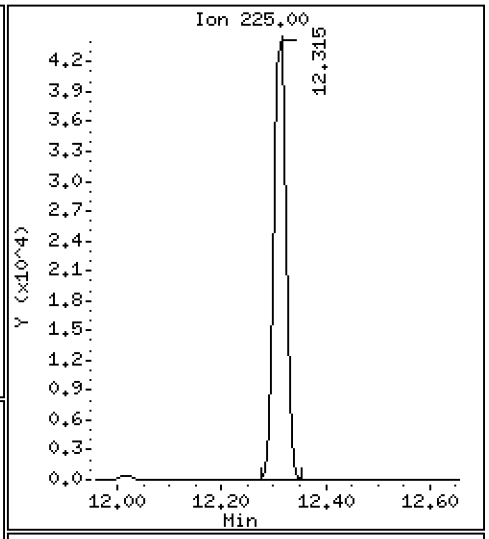
Concentration: 5.107 ug/mL

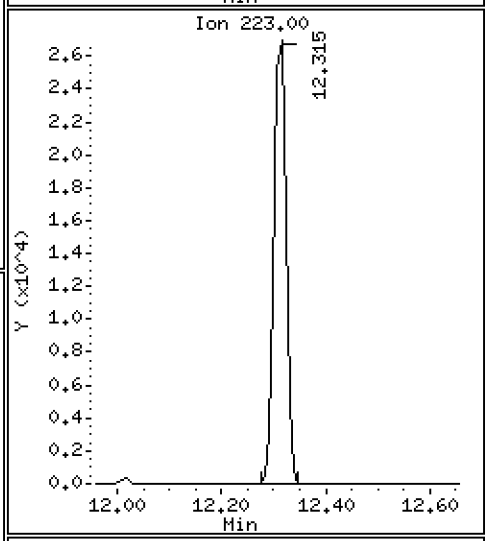


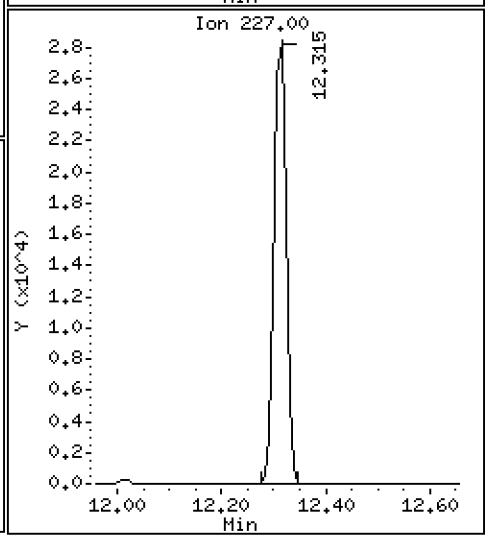












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

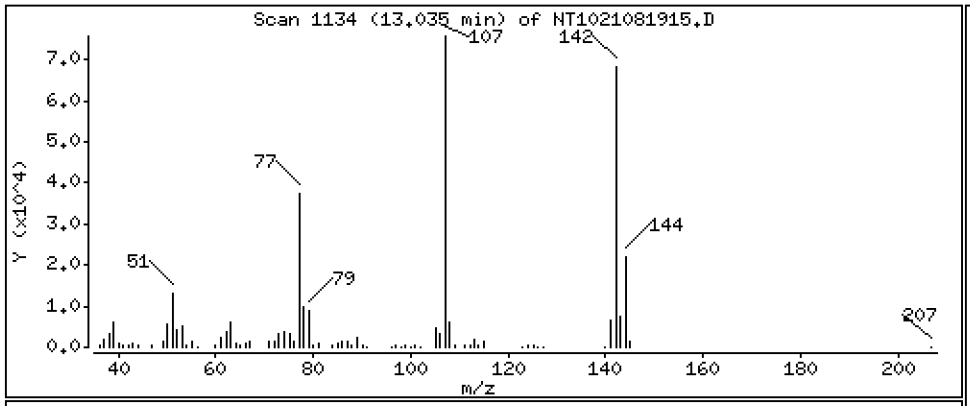
Operator: VTS

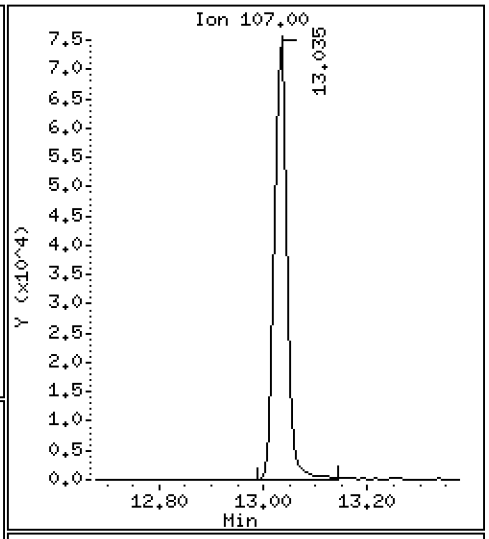
Column phase: ZB-5msi

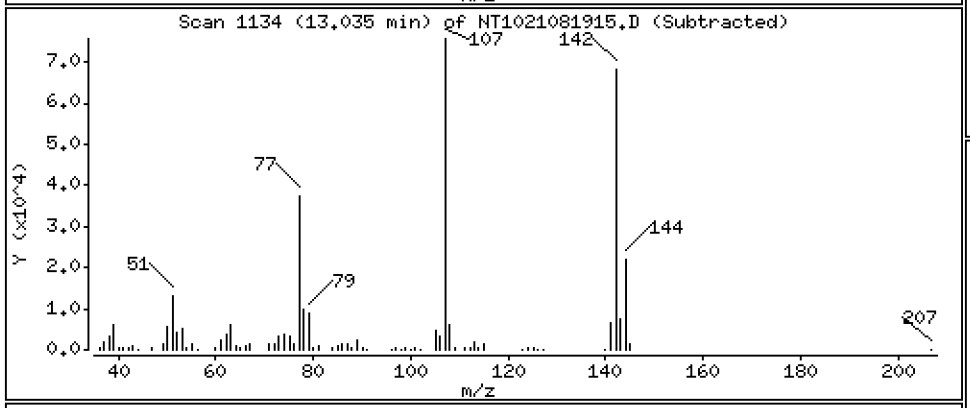
Column diameter: 0.25

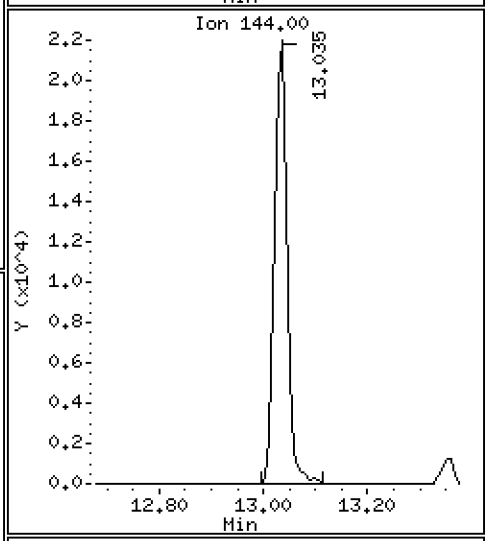
31 4-Chloro-3-methylphenol

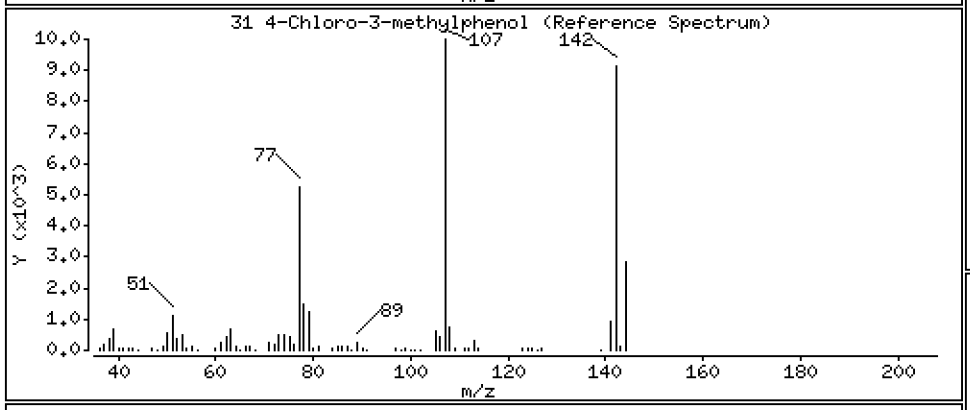
Concentration: 4.925 ug/mL

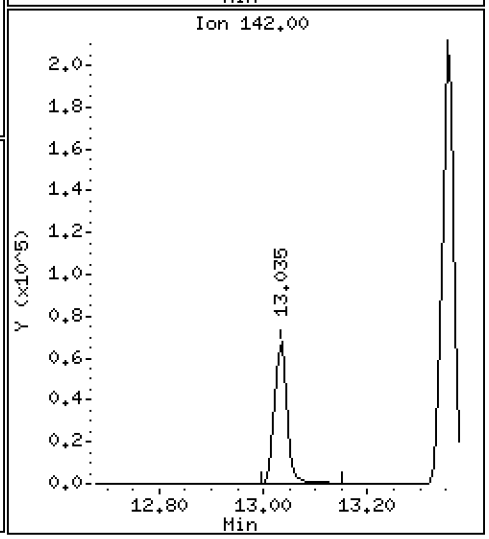


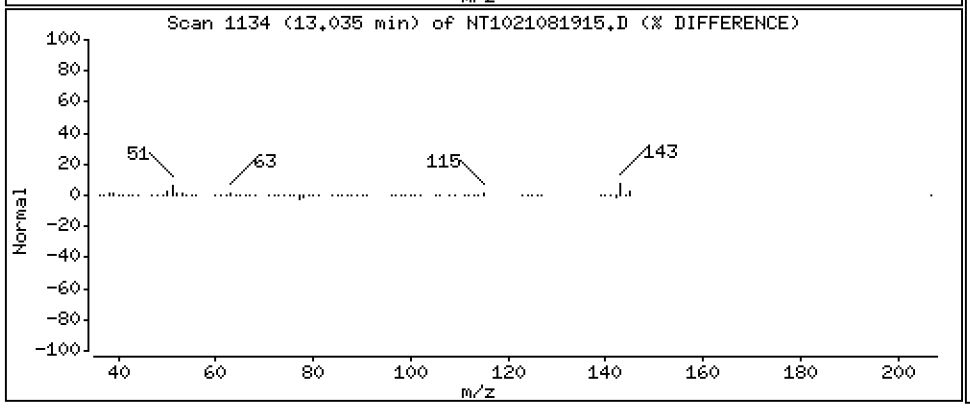












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

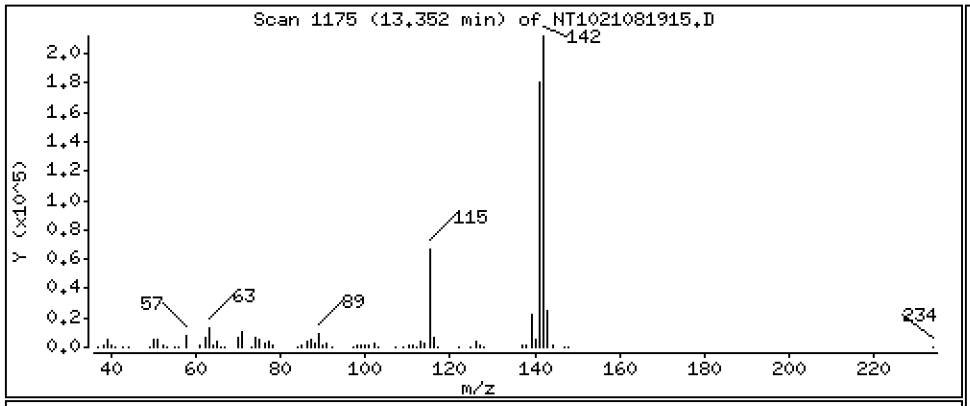
Operator: VTS

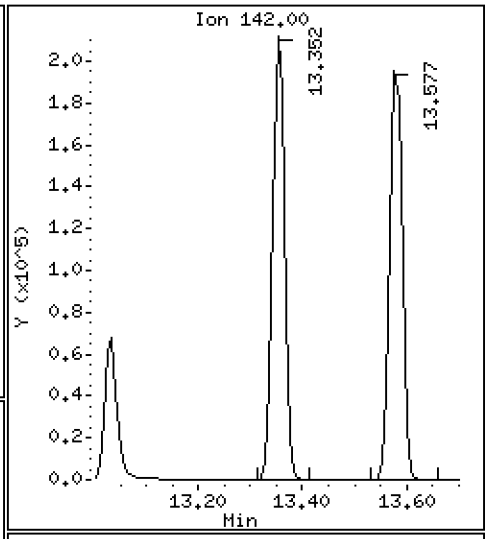
Column phase: ZB-5msi

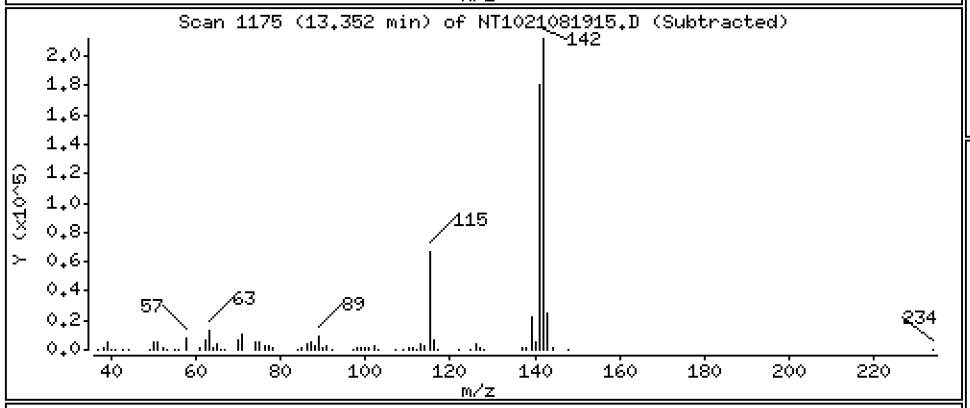
Column diameter: 0.25

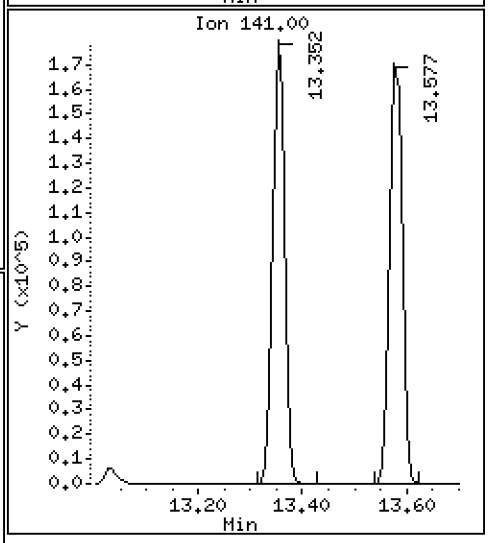
32 2-Methylnaphthalene

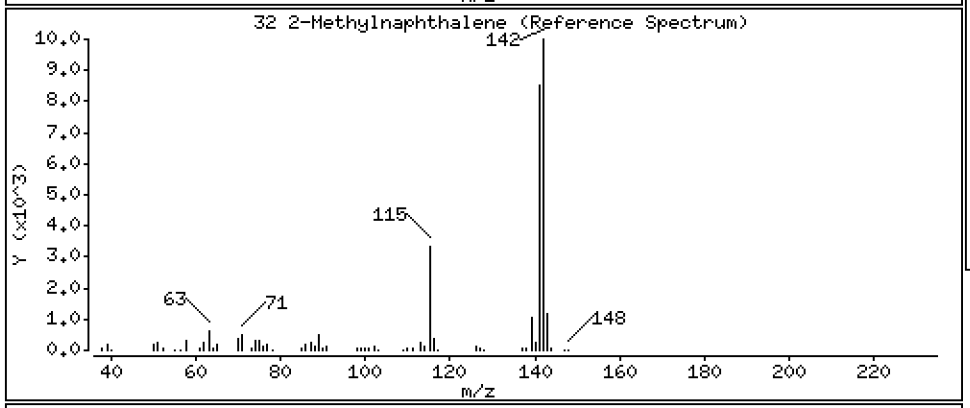
Concentration: 4.723 ug/mL

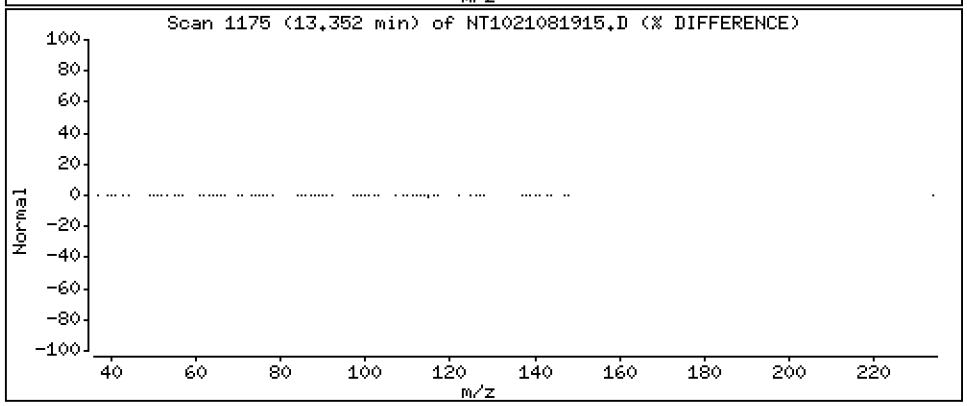












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

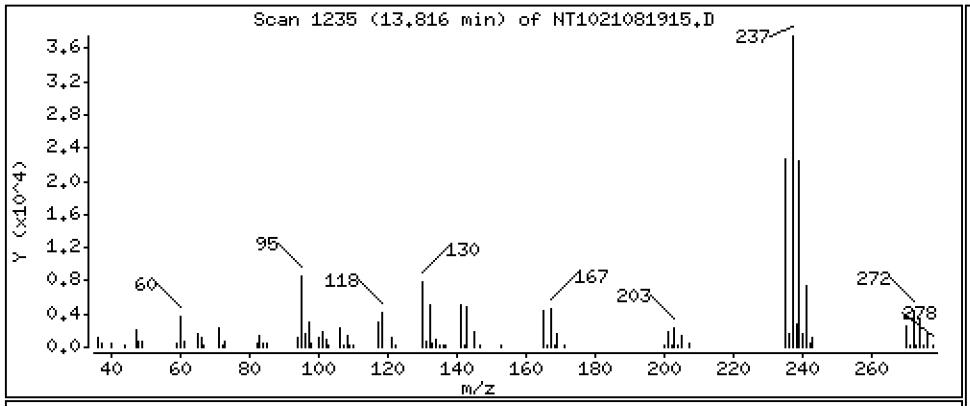
Operator: VTS

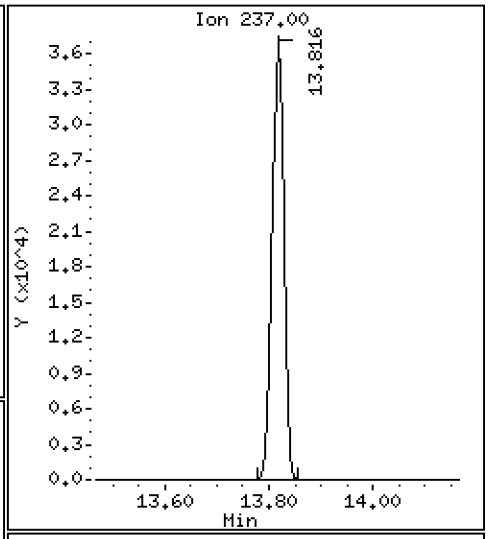
Column phase: ZB-5msi

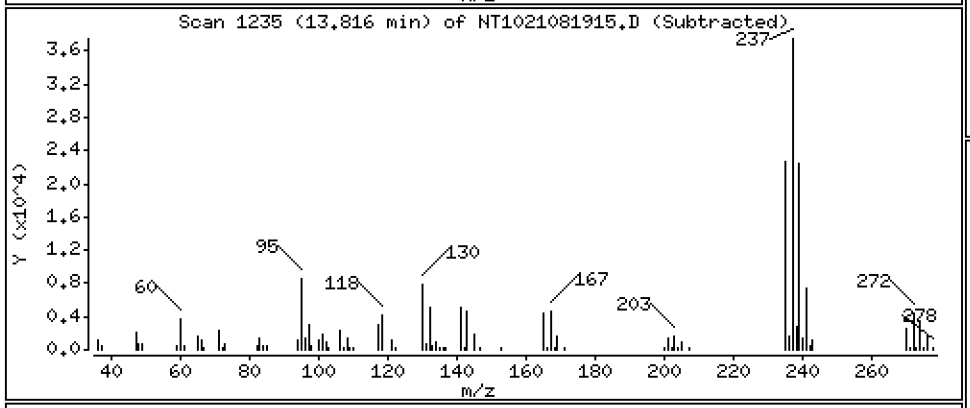
Column diameter: 0.25

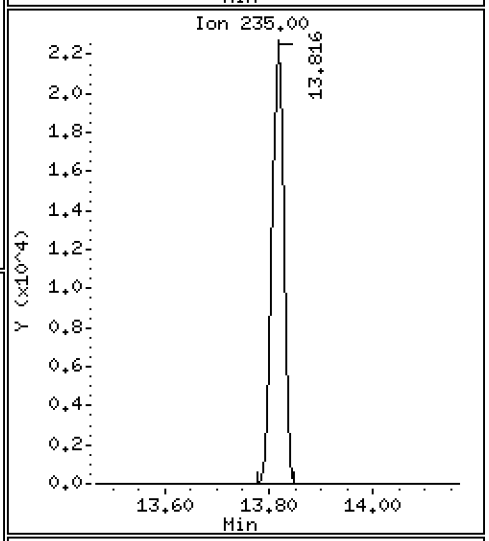
33 Hexachlorocyclopentadiene

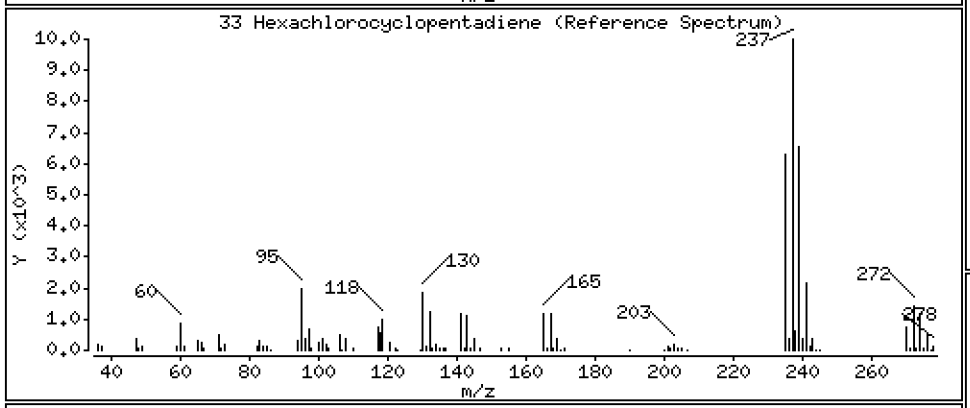
Concentration: 4.314 ug/mL

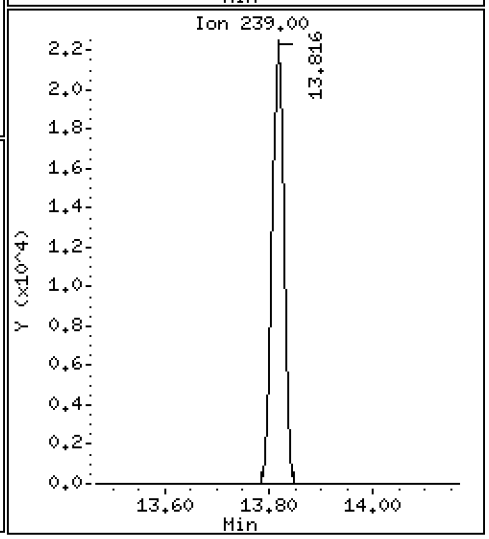


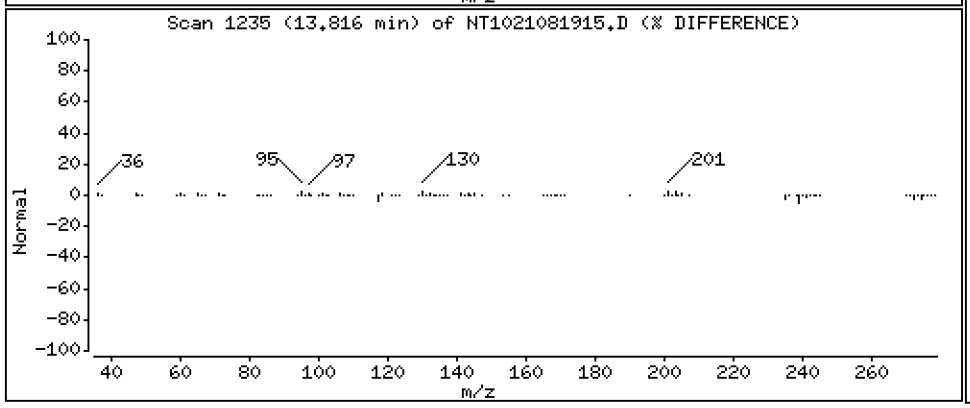












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

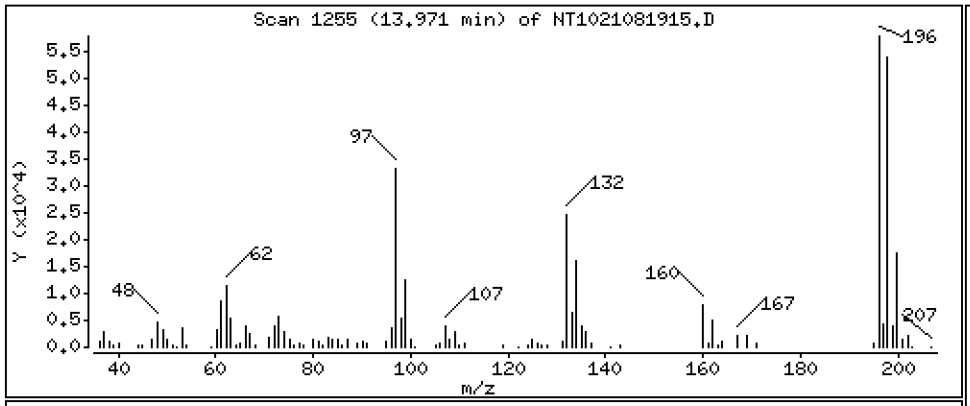
Operator: VTS

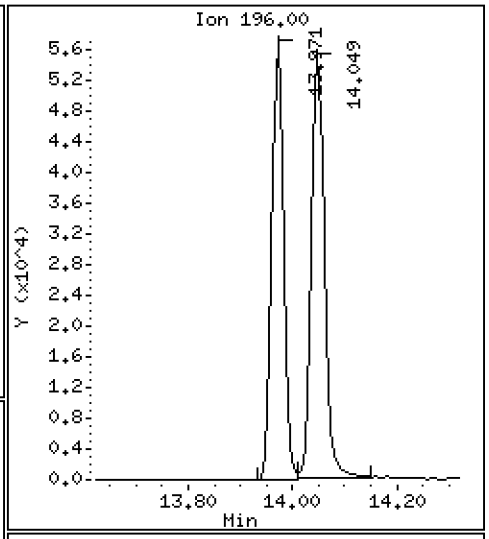
Column phase: ZB-5msi

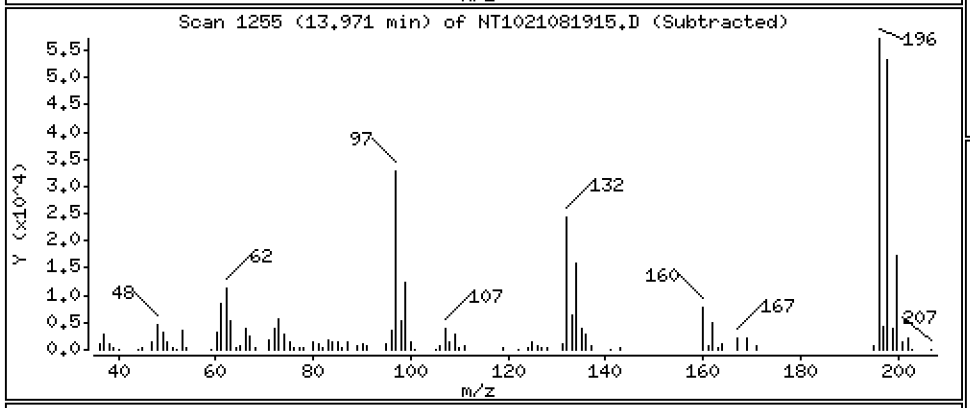
Column diameter: 0.25

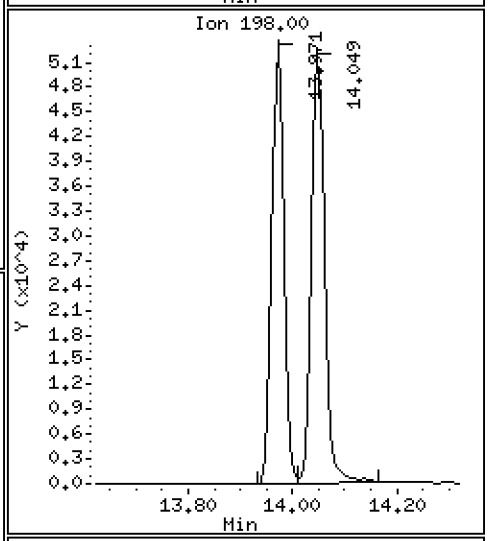
34 2,4,6-Trichlorophenol

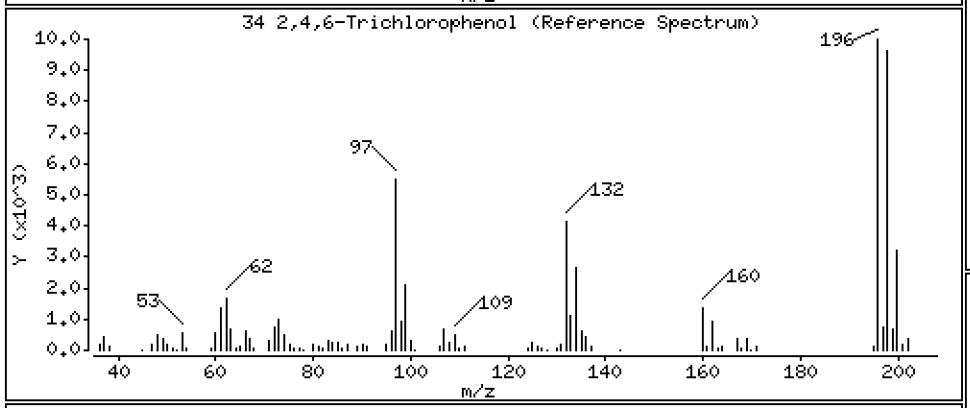
Concentration: 4.770 ug/mL

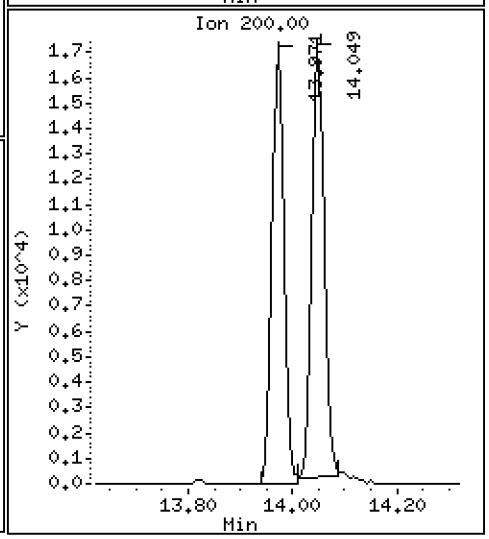


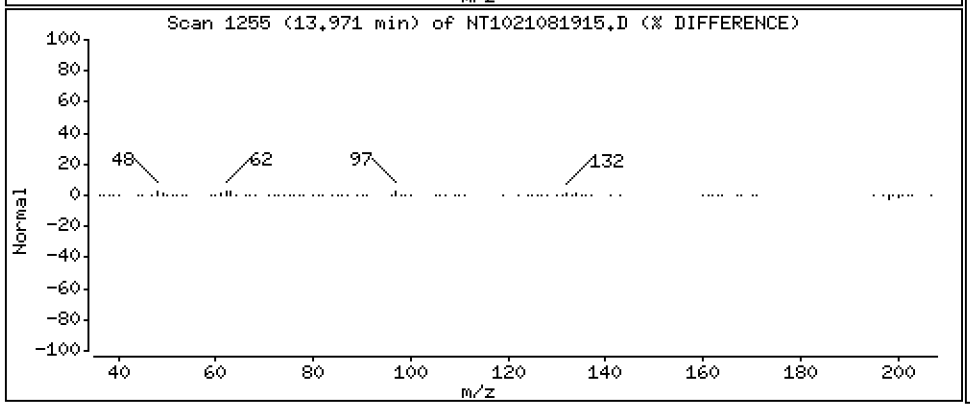












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

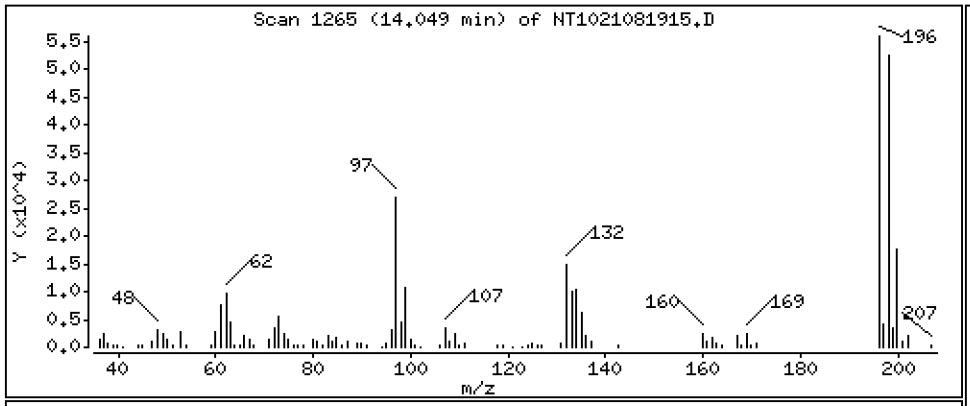
Operator: VTS

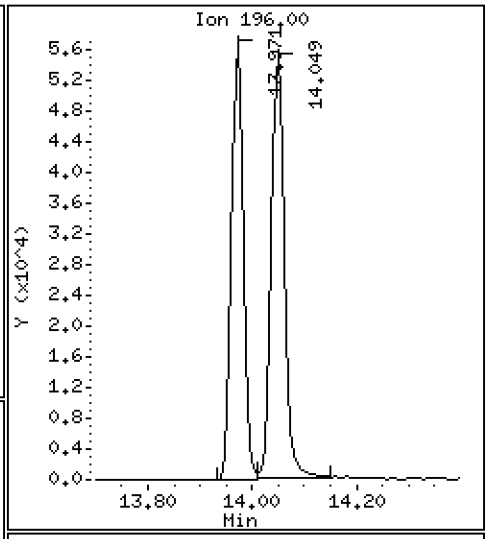
Column phase: ZB-5msi

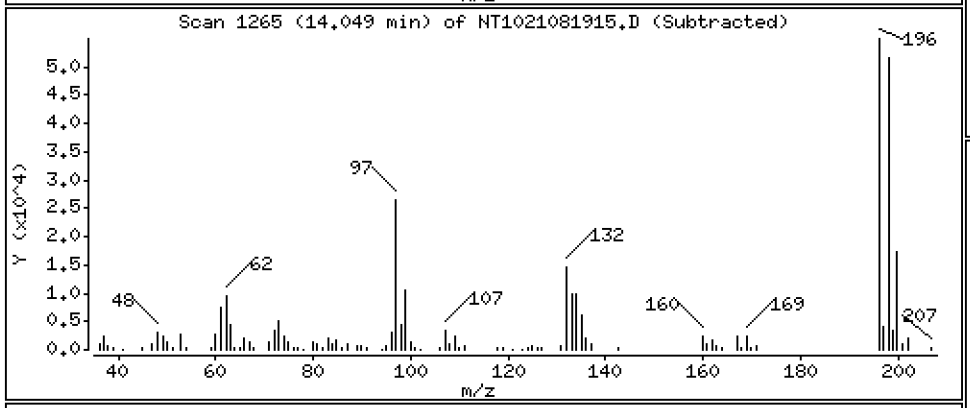
Column diameter: 0.25

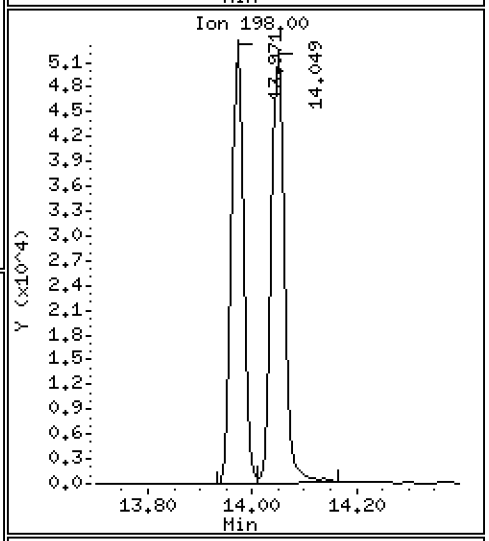
35 2,4,5-Trichlorophenol

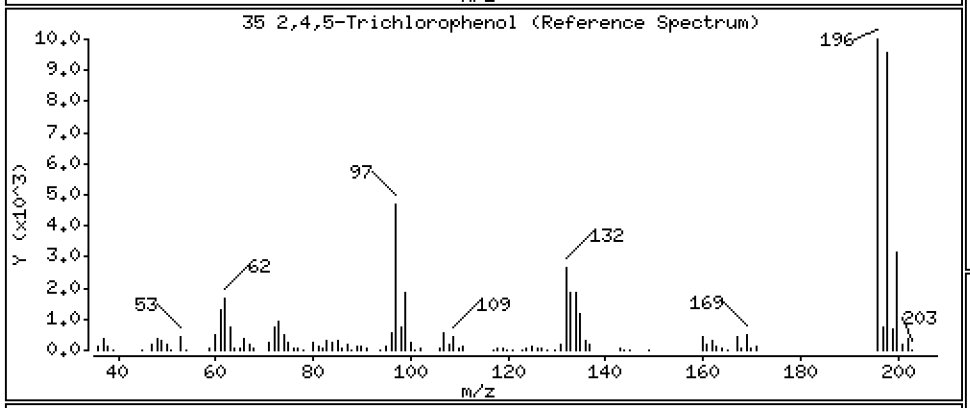
Concentration: 4.914 ug/mL

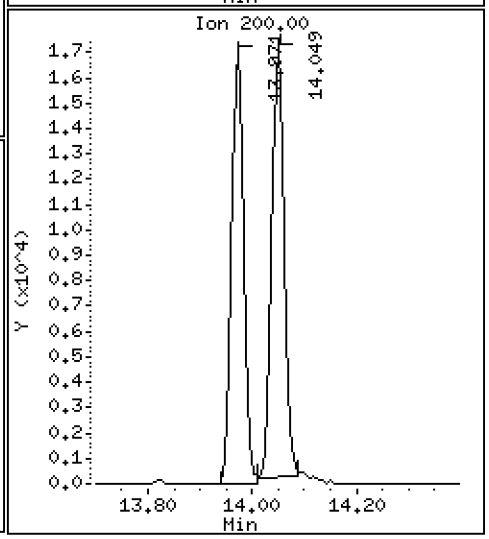


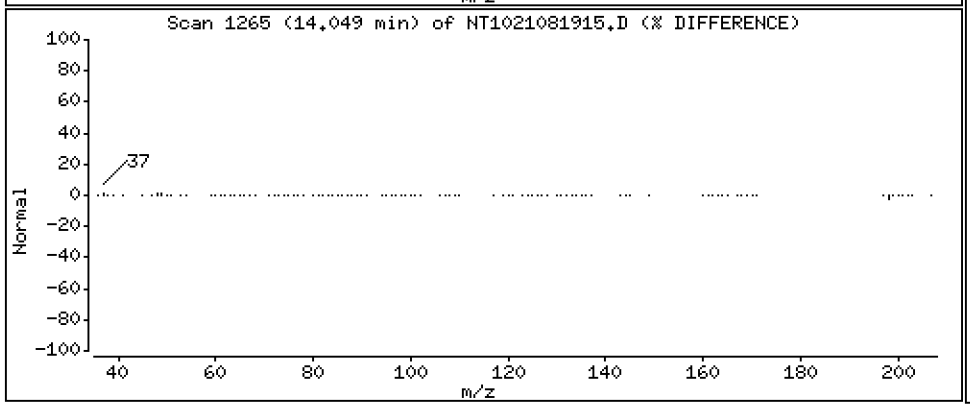












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

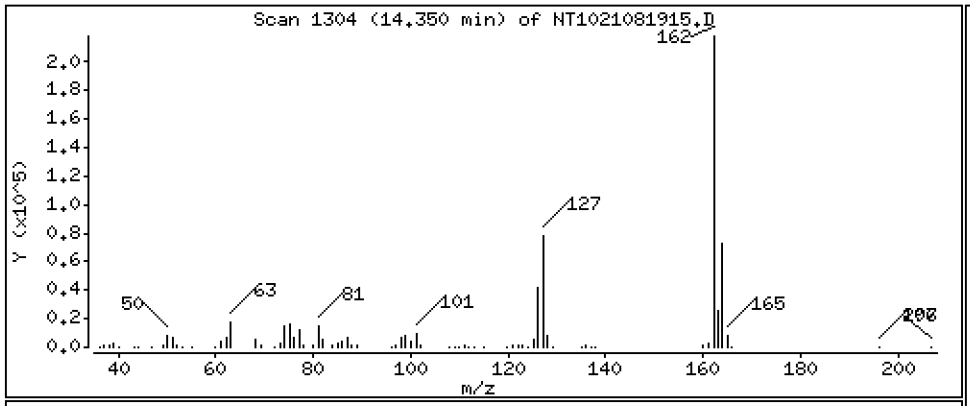
Operator: VTS

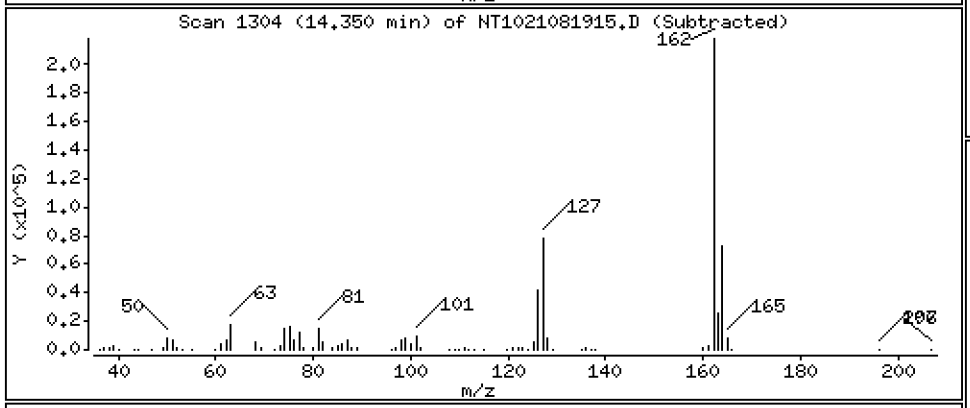
Column phase: ZB-5msi

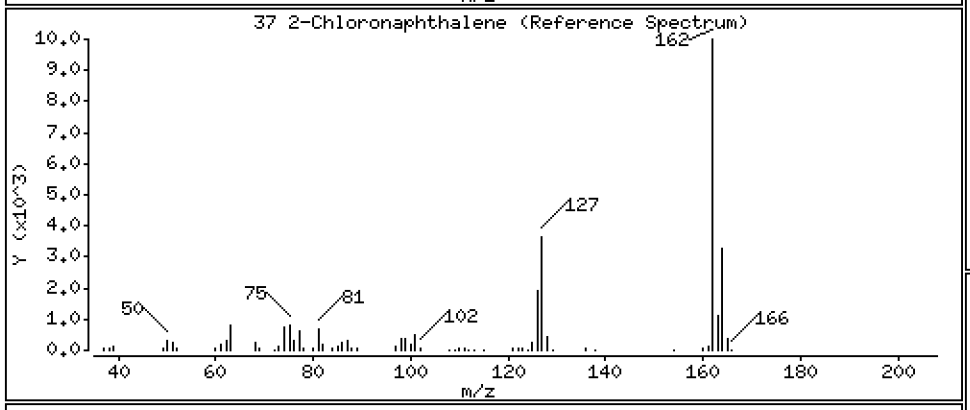
Column diameter: 0.25

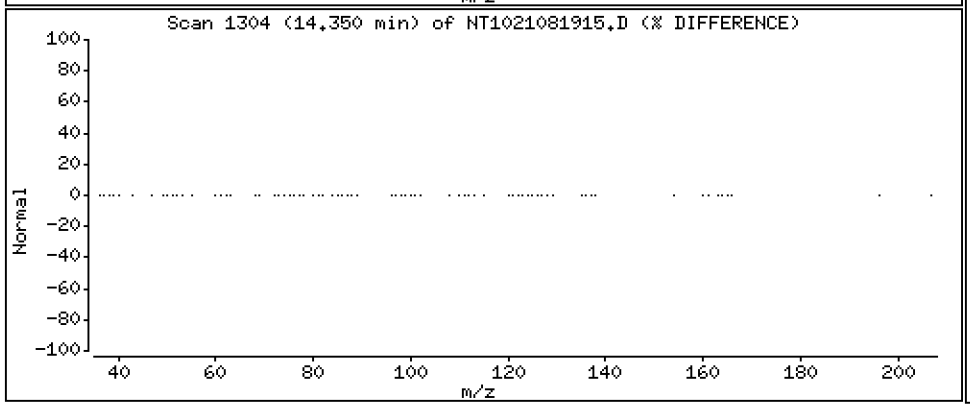
37 2-Chloronaphthalene

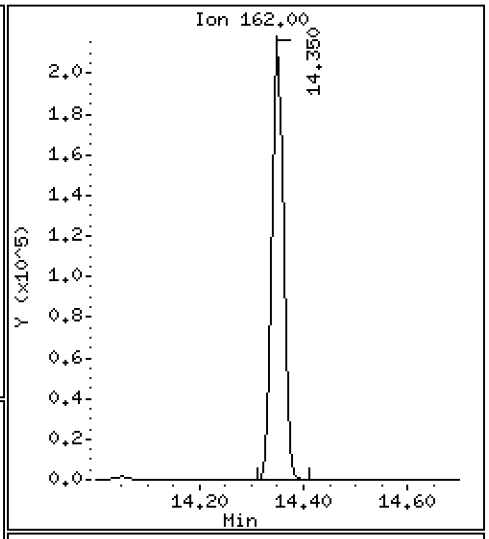
Concentration: 5.585 ug/mL

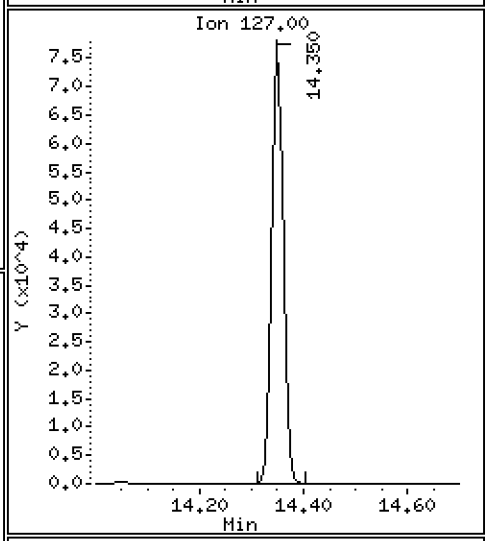


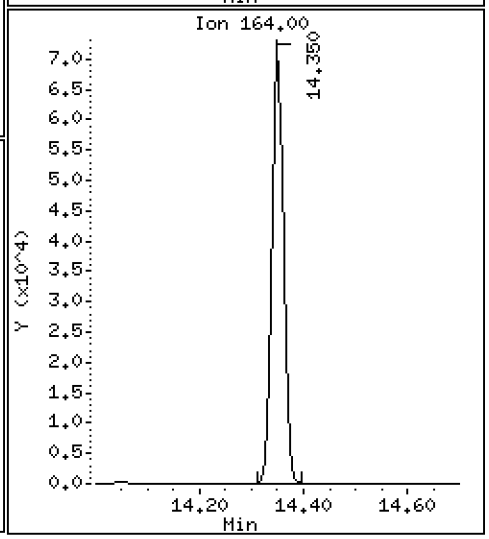












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

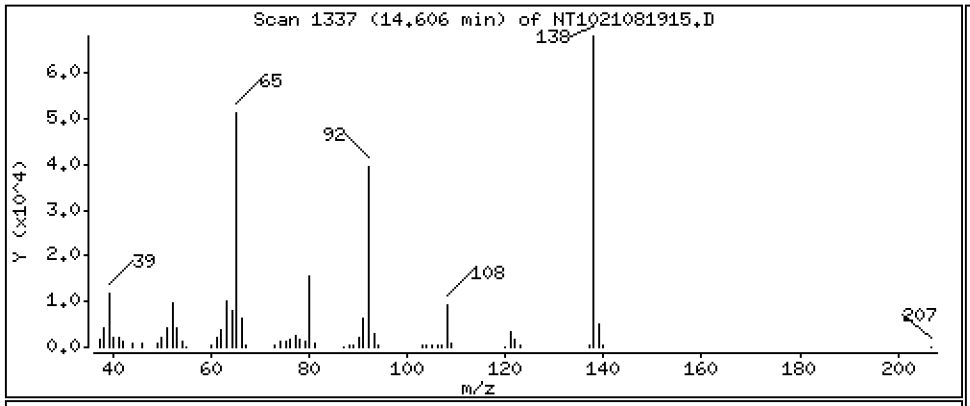
Operator: VTS

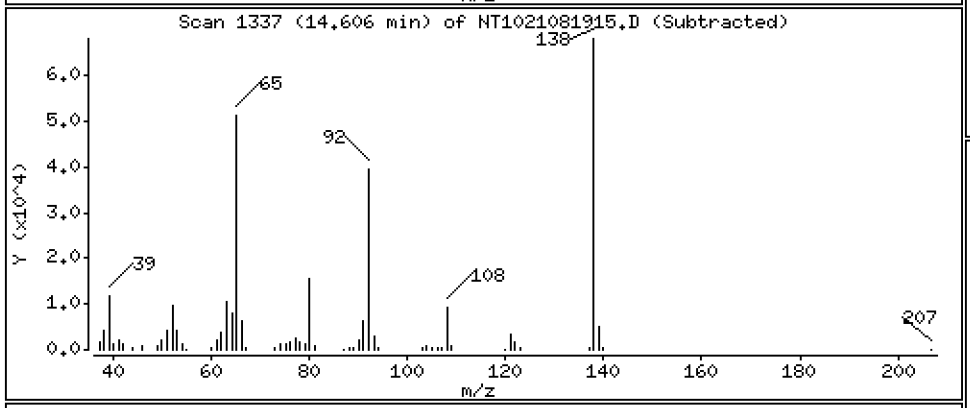
Column phase: ZB-5msi

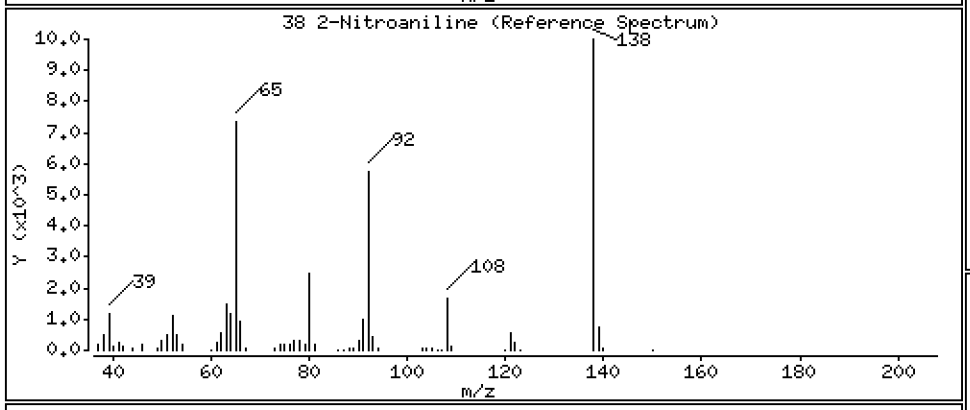
Column diameter: 0.25

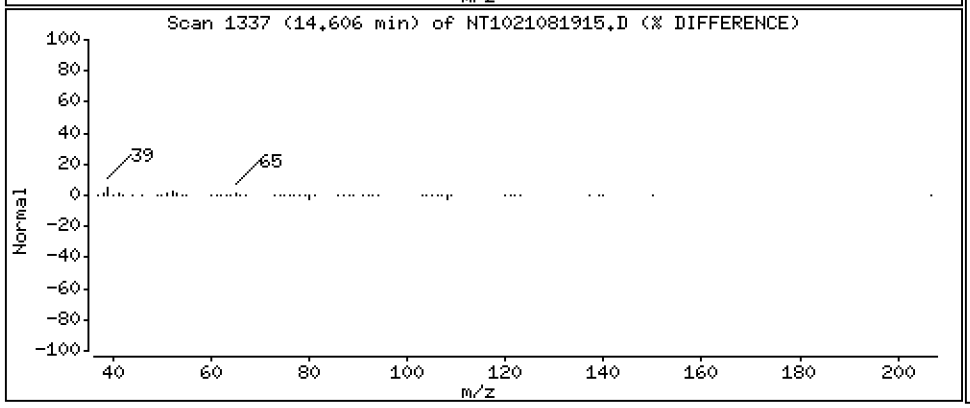
38 2-Nitroaniline

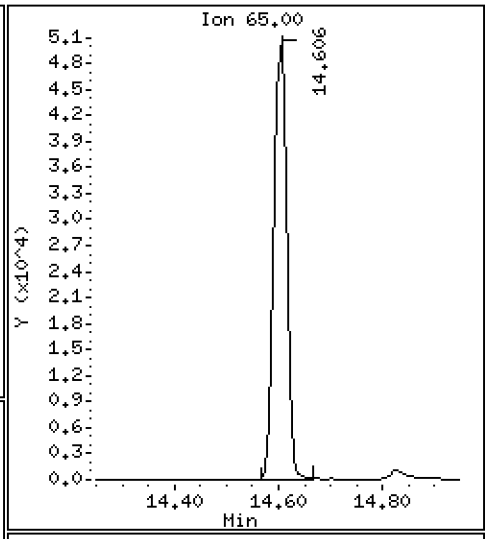
Concentration: 4.972 ug/mL

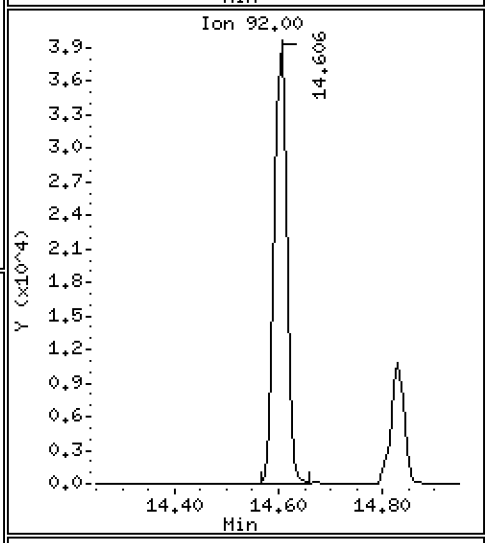


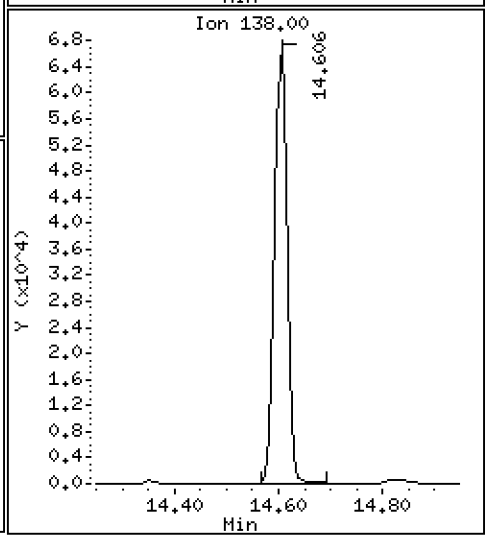












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

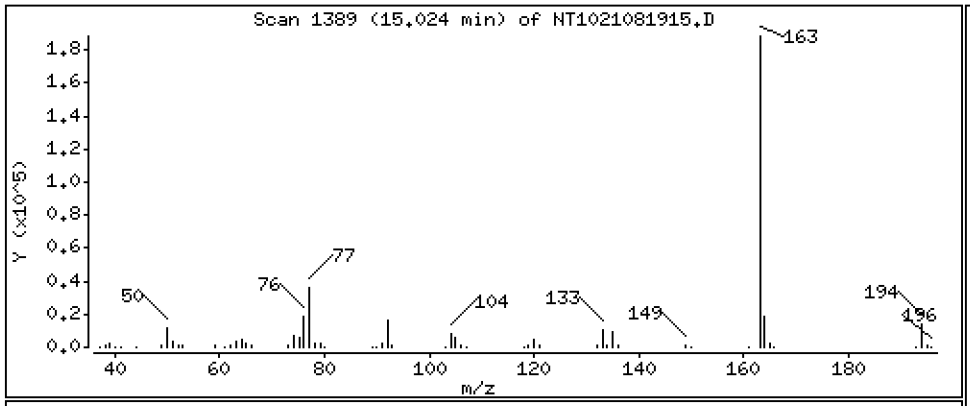
Operator: VTS

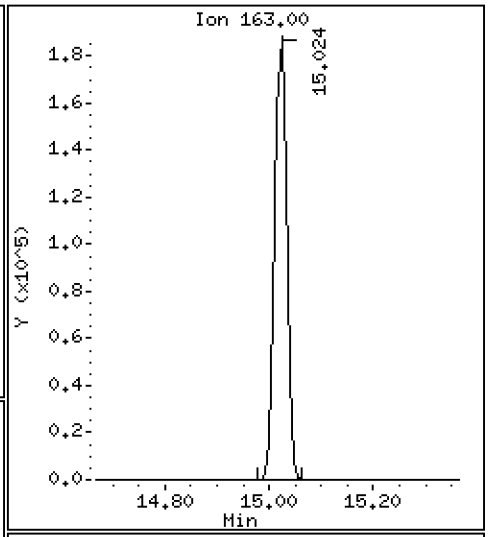
Column phase: ZB-5msi

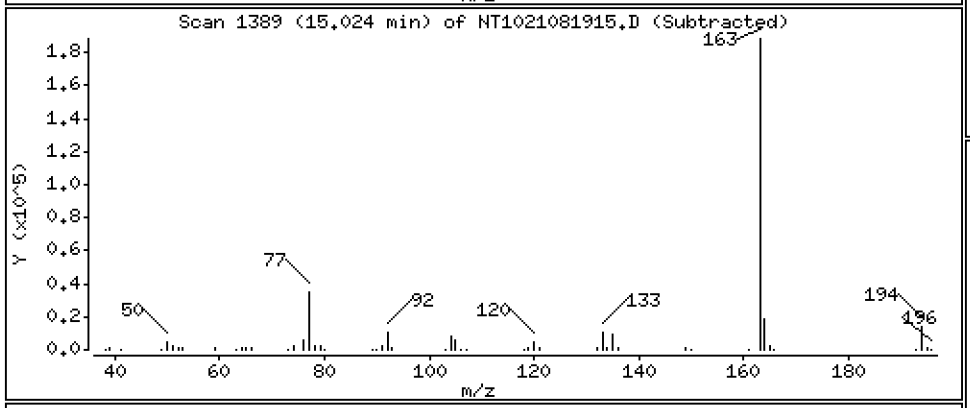
Column diameter: 0.25

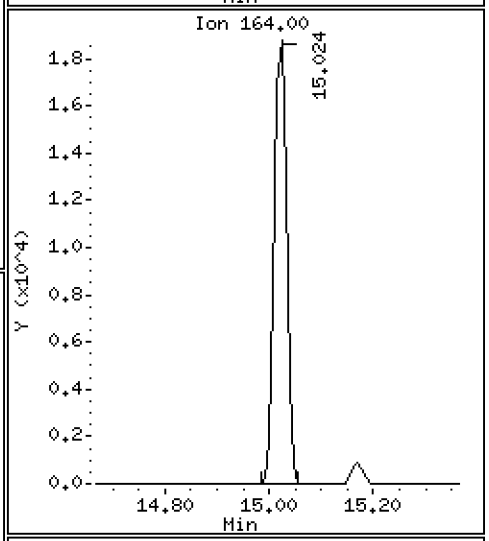
39 Dimethylphthalate

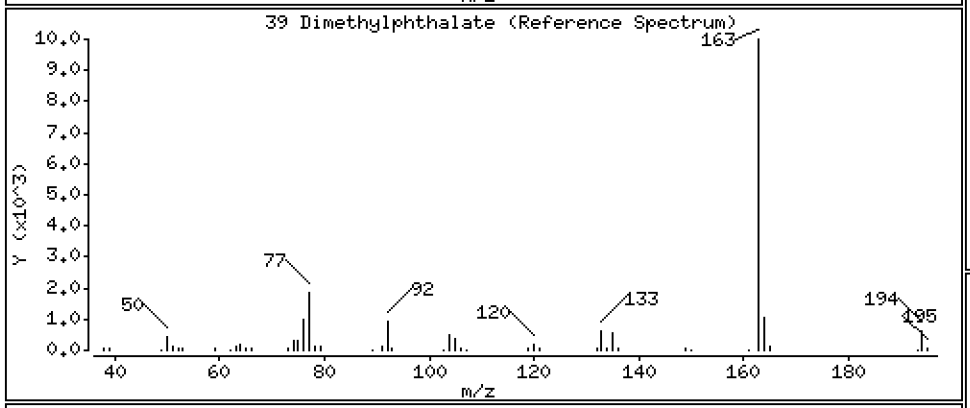
Concentration: 4.979 ug/mL

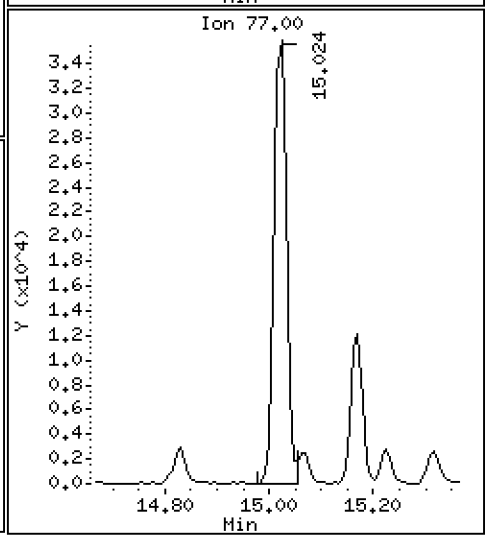


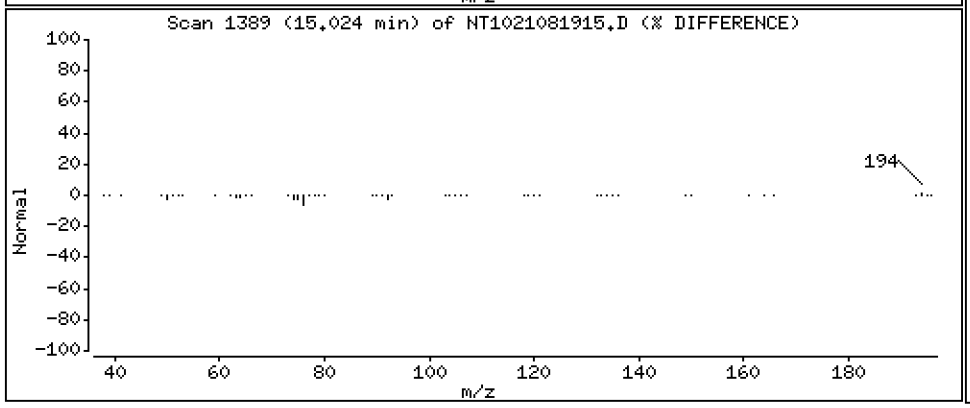












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

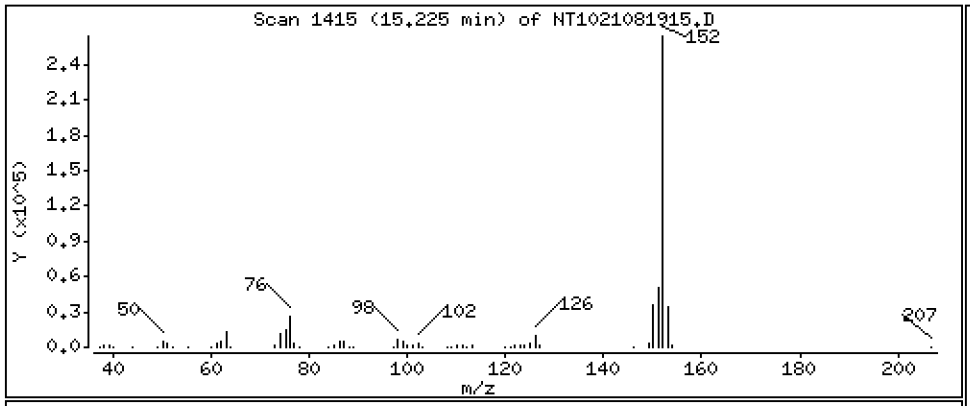
Operator: VTS

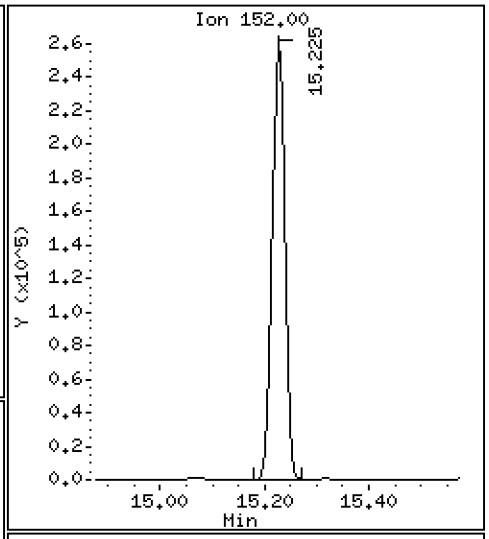
Column phase: ZB-5msi

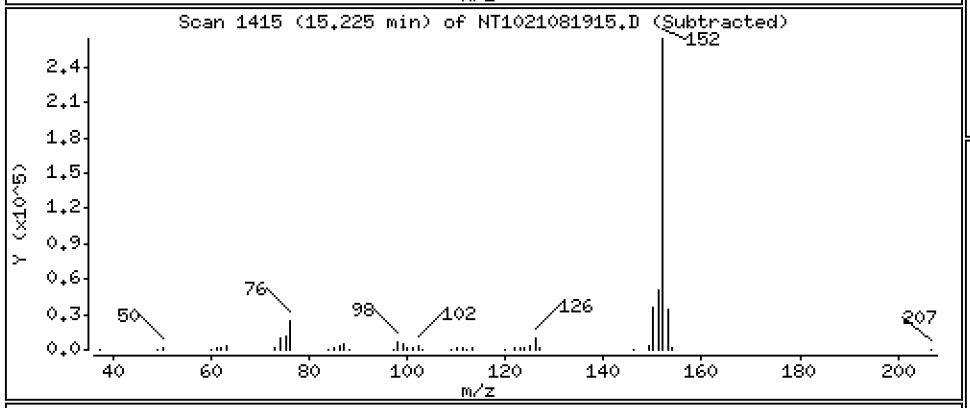
Column diameter: 0.25

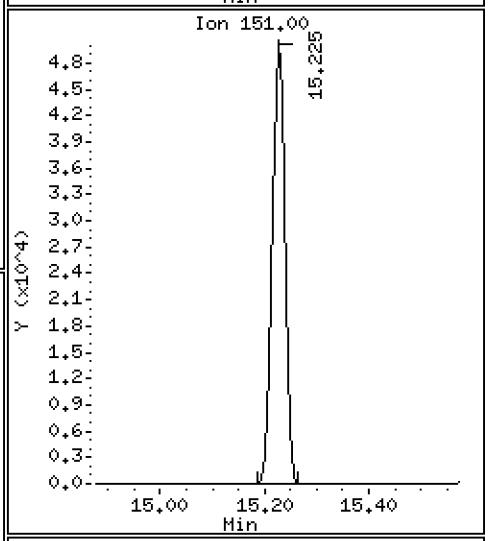
40 Acenaphthylene

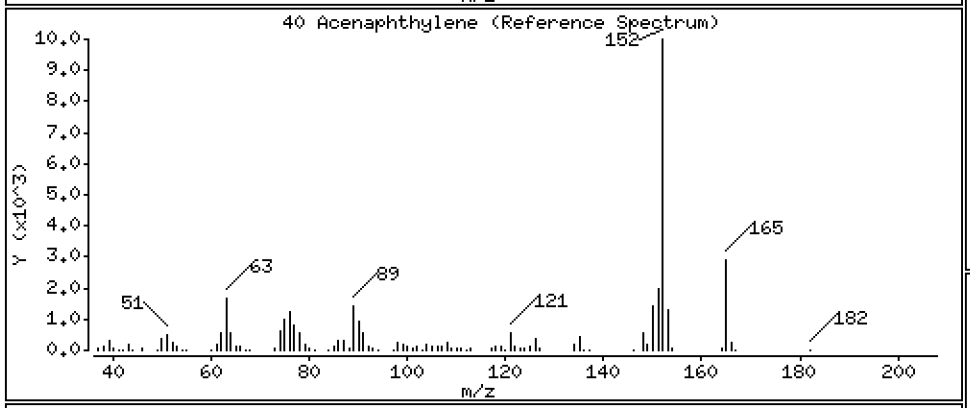
Concentration: 4.796 ug/mL

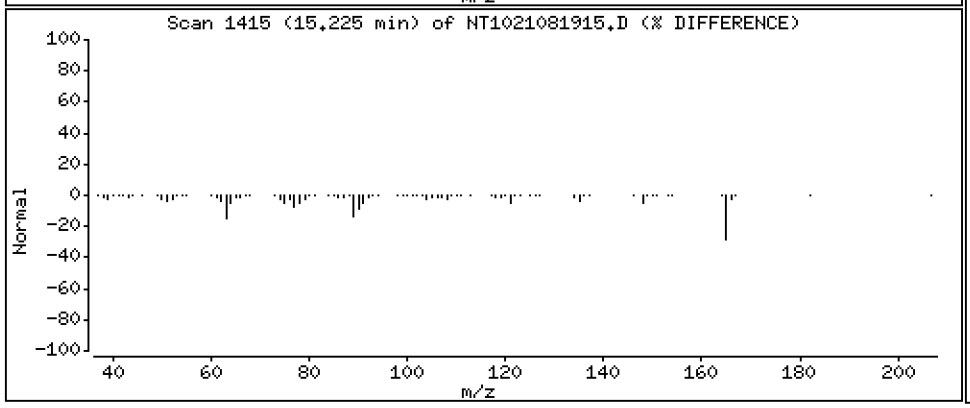


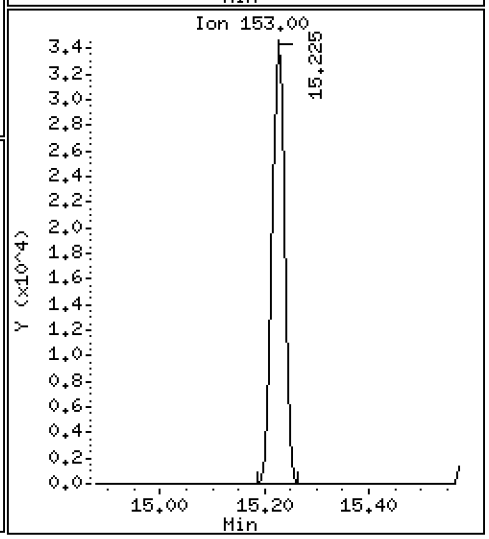












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

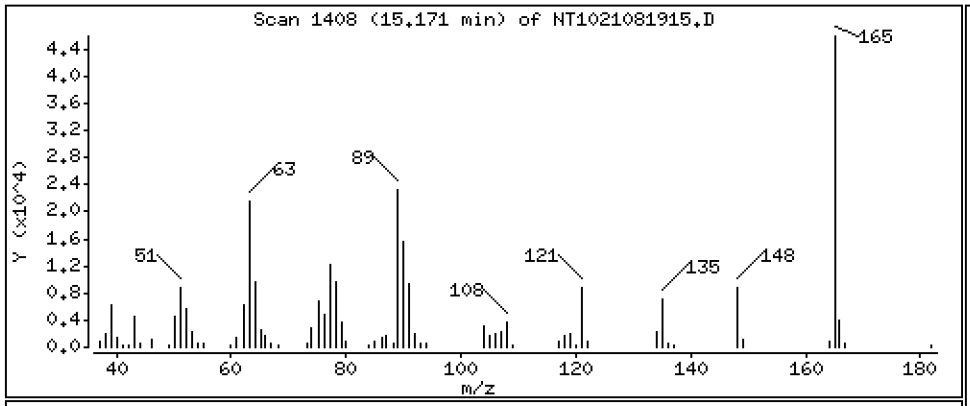
Operator: VTS

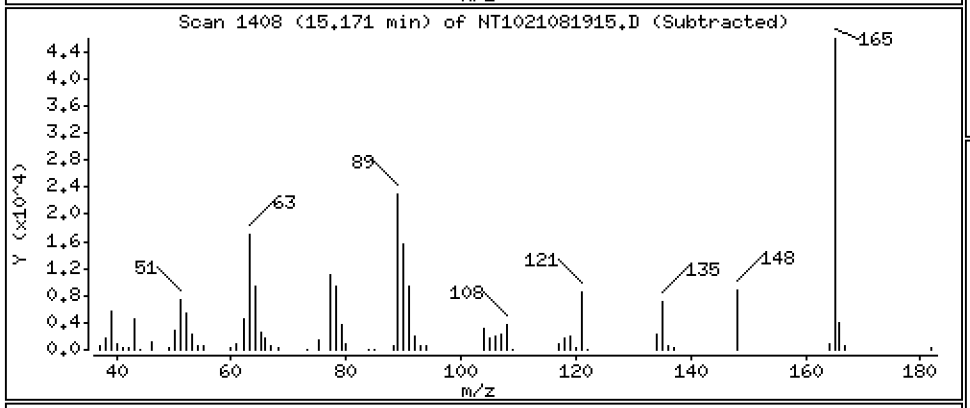
Column phase: ZB-5msi

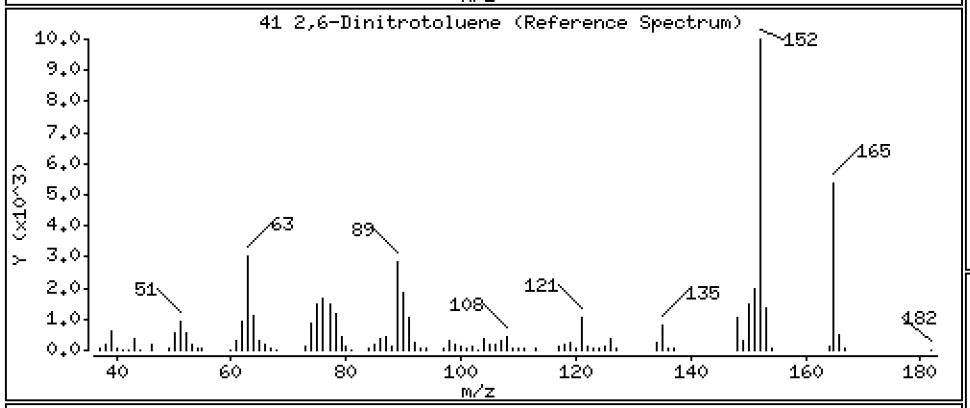
Column diameter: 0.25

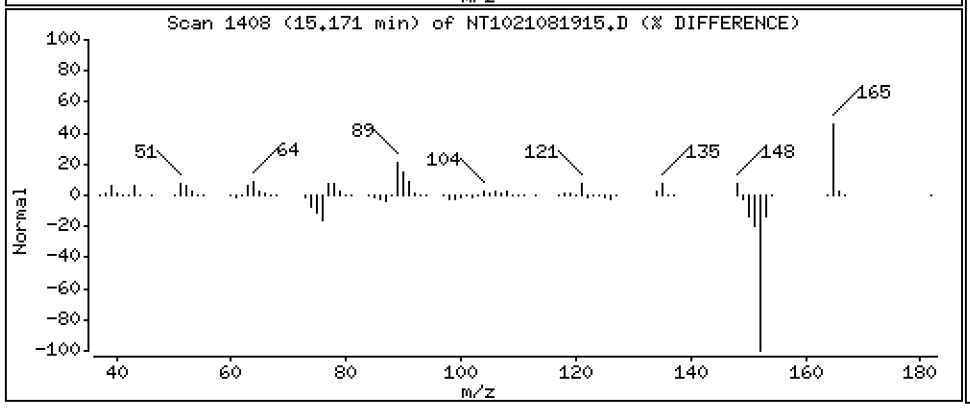
41 2,6-Dinitrotoluene

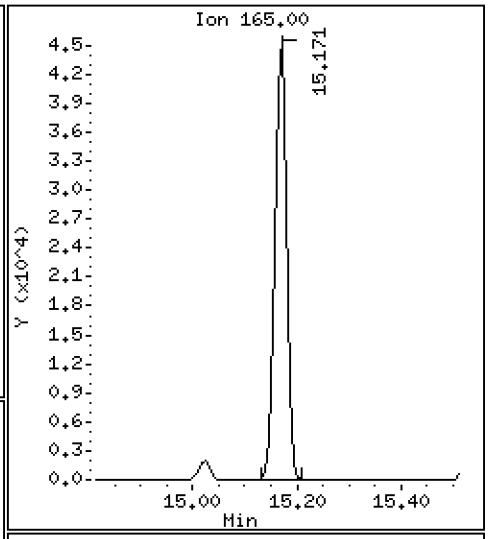
Concentration: 5.369 ug/mL

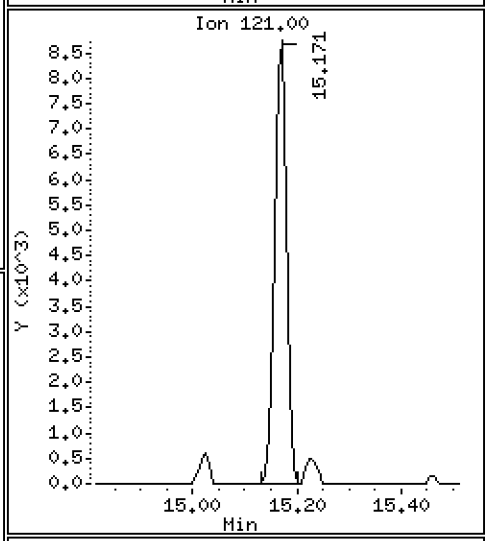


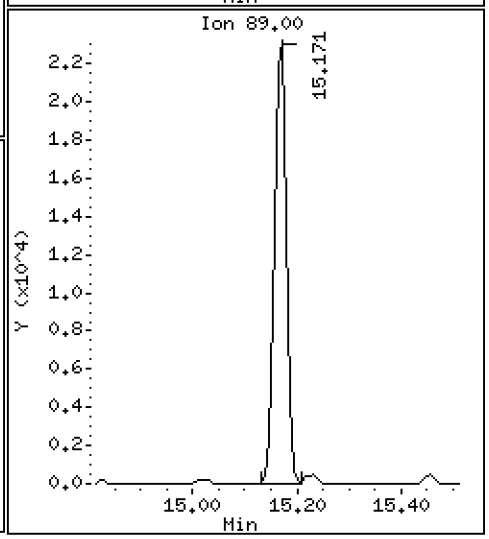












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Date : 19-AUG-2021 20:42

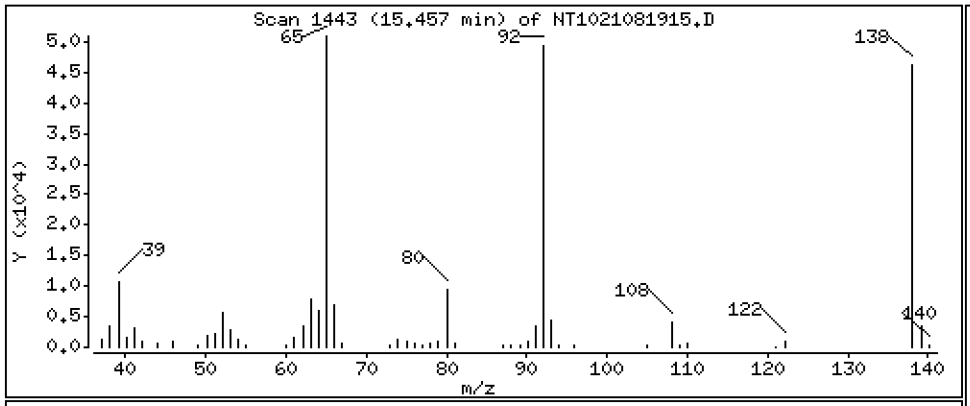
Client ID: Instrument: nt10.i

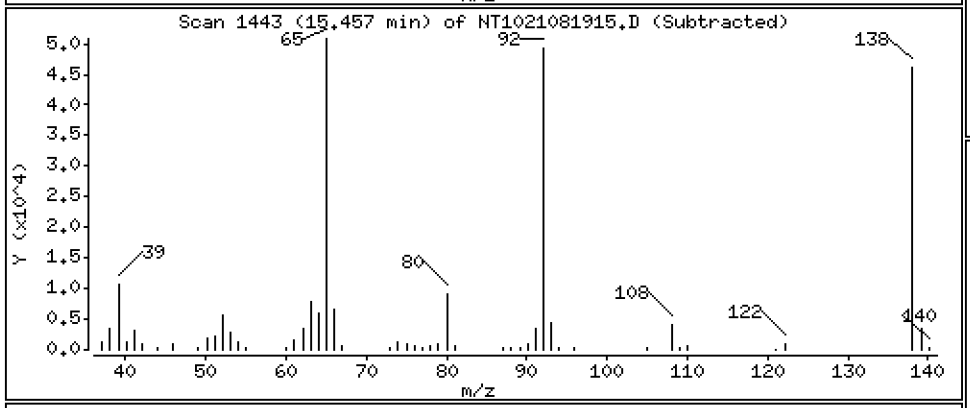
Sample Info: SJH0235-SCV1

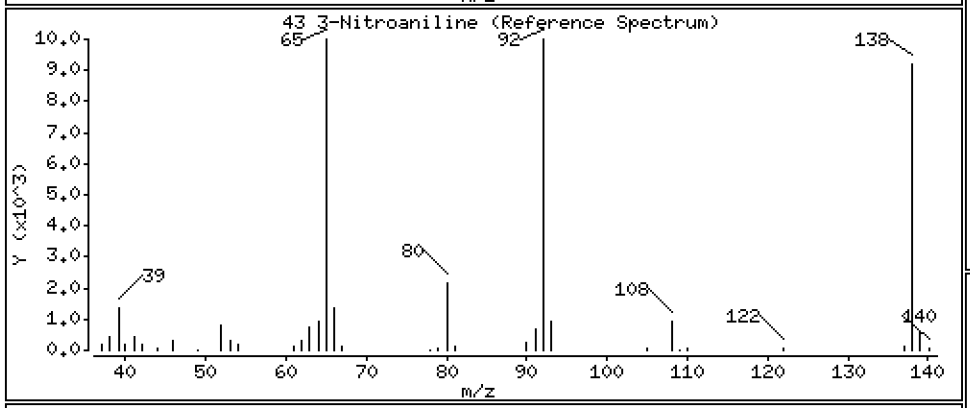
Operator: VTS

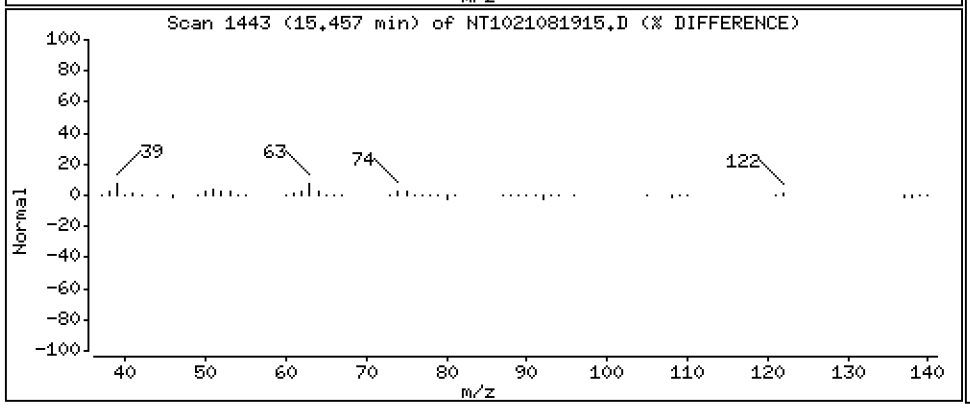
Column phase: ZB-5msi Column diameter: 0.25

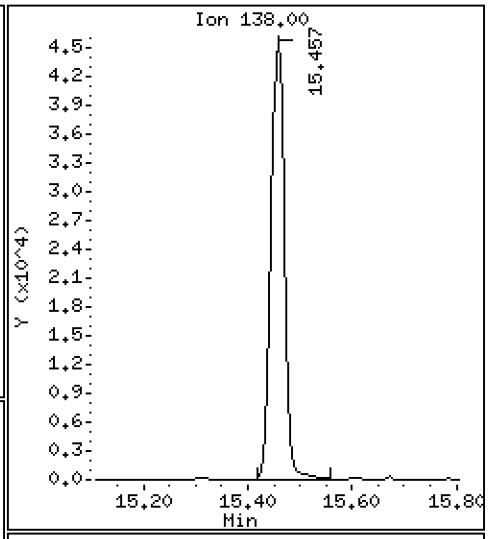
43 3-Nitroaniline Concentration: 4.562 ug/mL

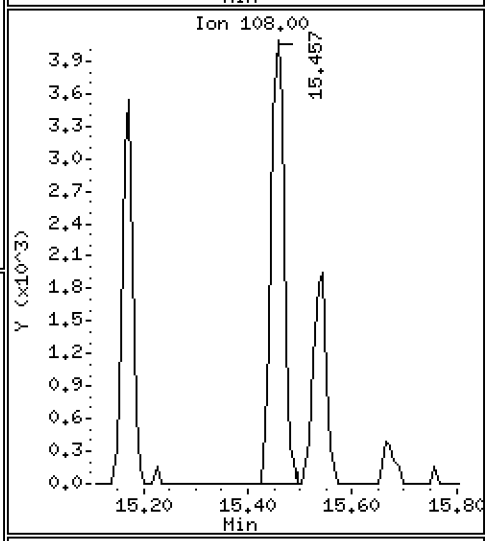


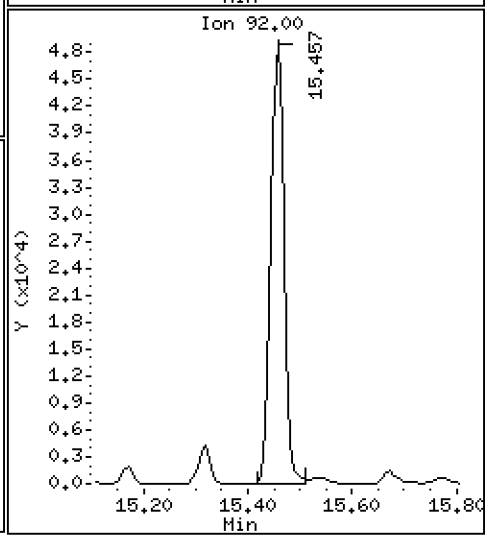












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

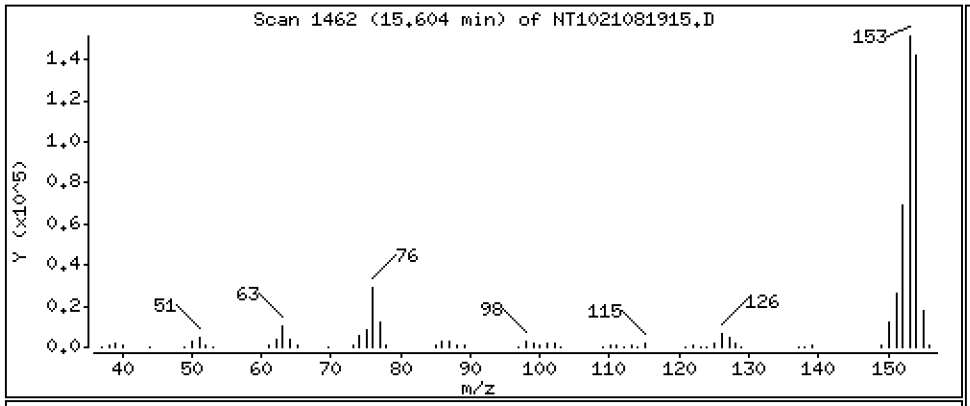
Operator: VTS

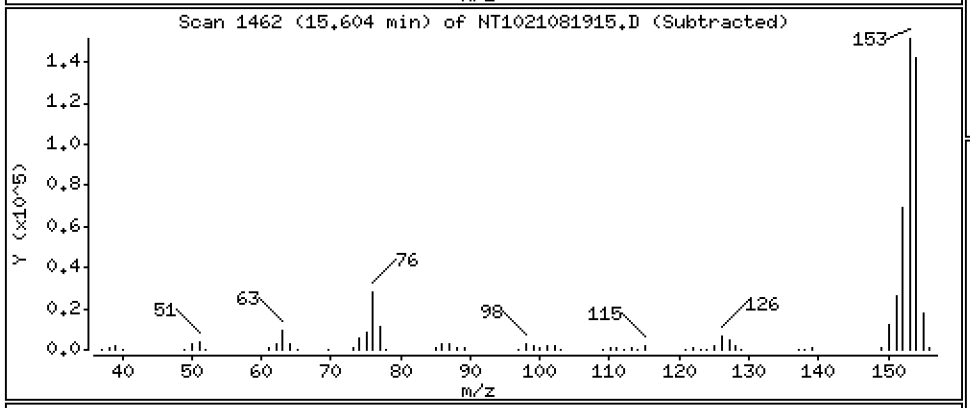
Column phase: ZB-5msi

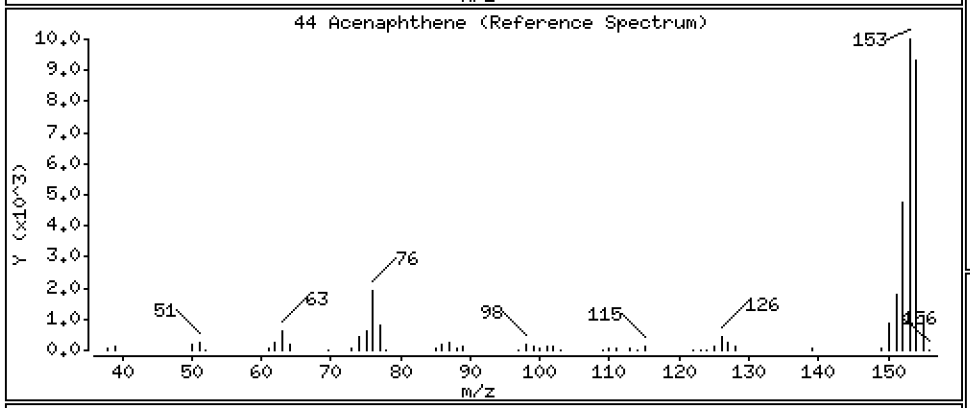
Column diameter: 0.25

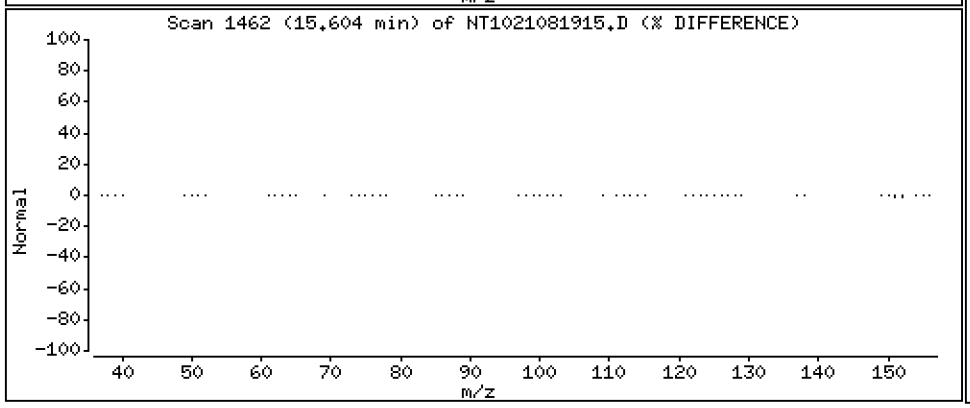
44 Acenaphthene

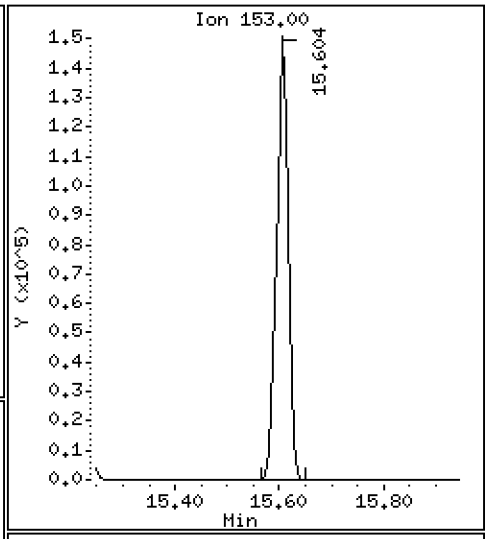
Concentration: 4.975 ug/mL

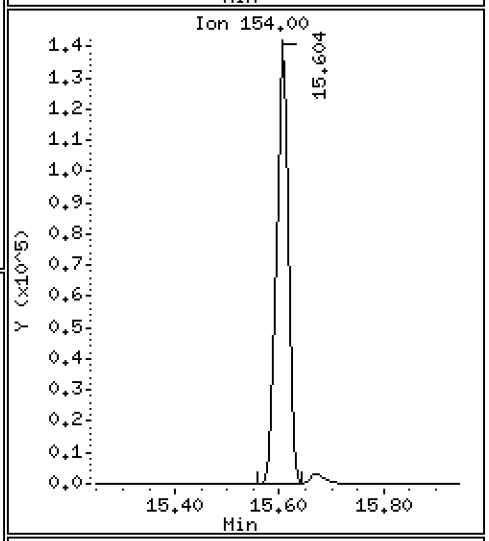


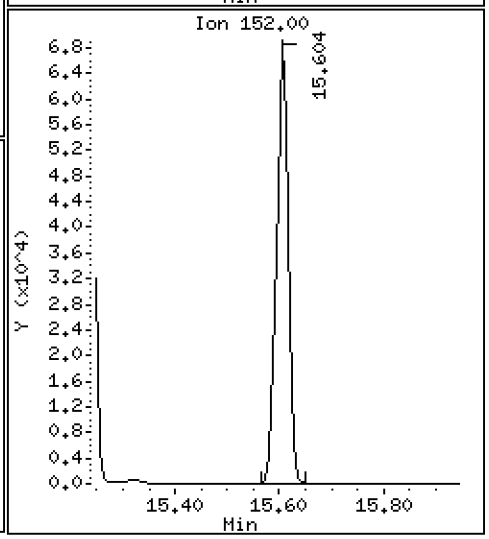












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

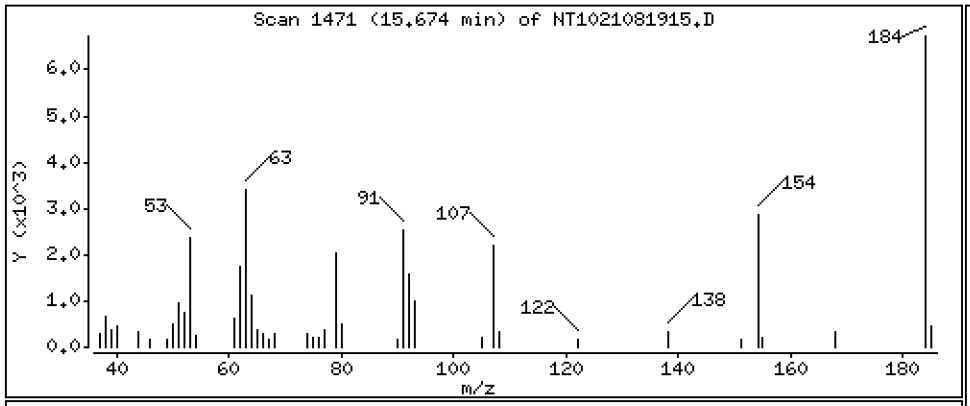
Operator: VTS

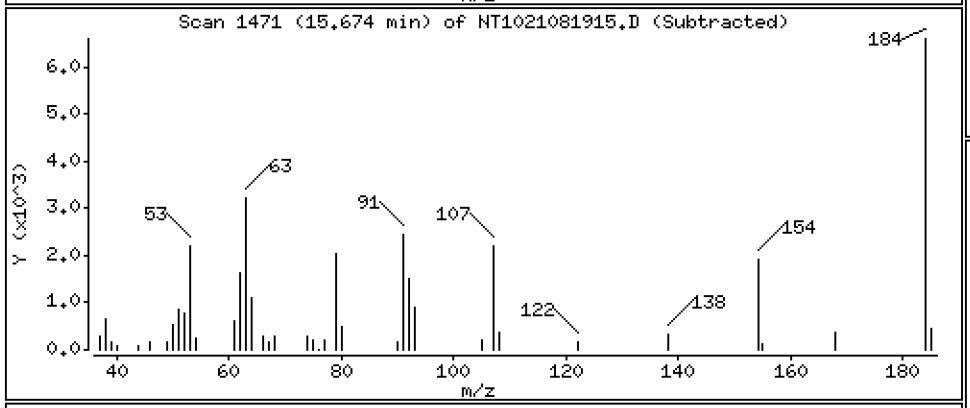
Column phase: ZB-5msi

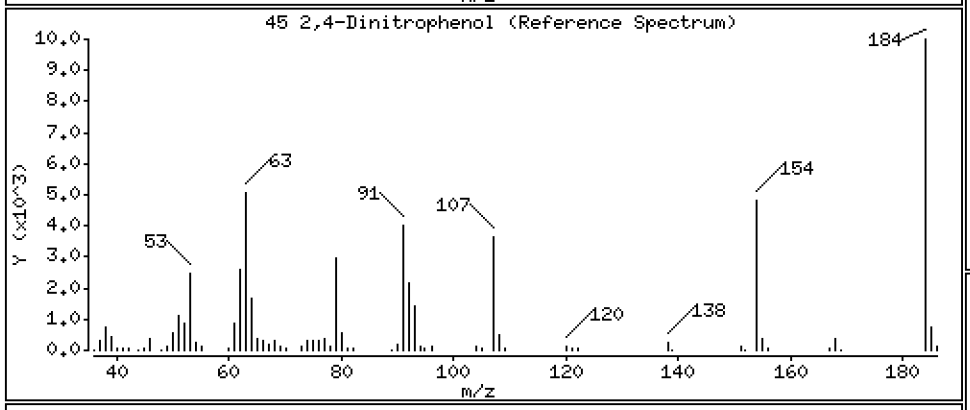
Column diameter: 0.25

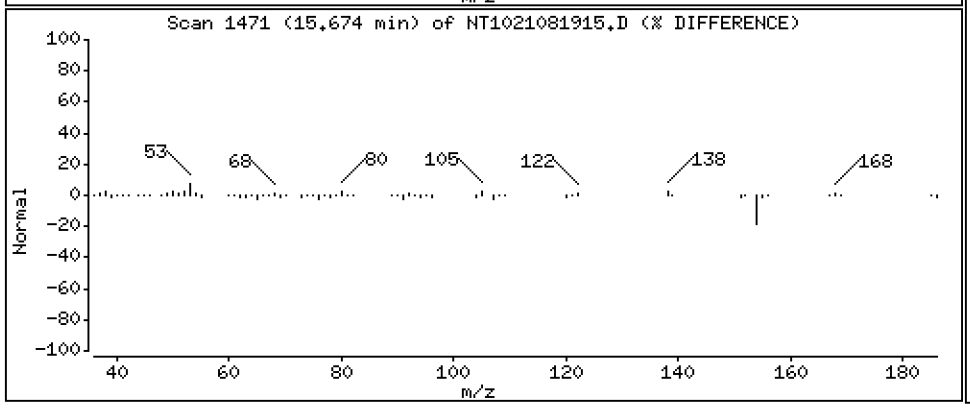
45 2,4-Dinitrophenol

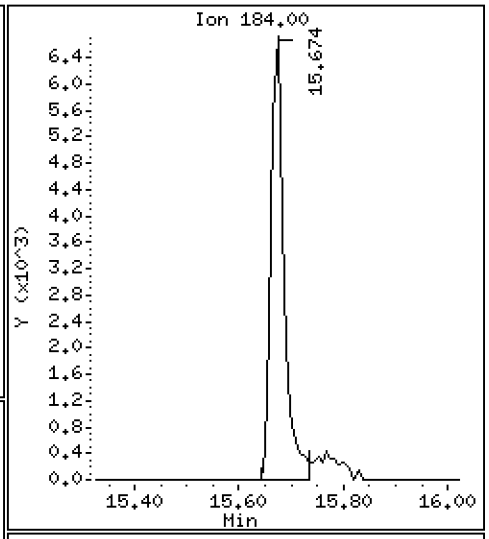
Concentration: 1.665 ug/mL

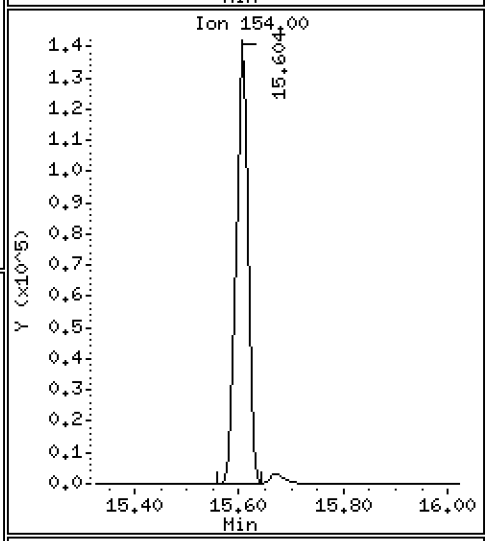


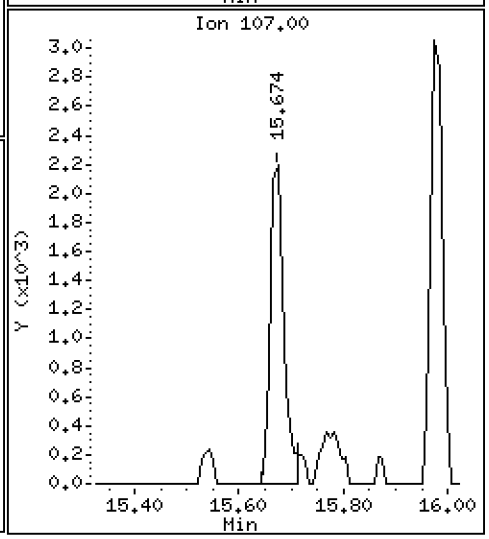












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

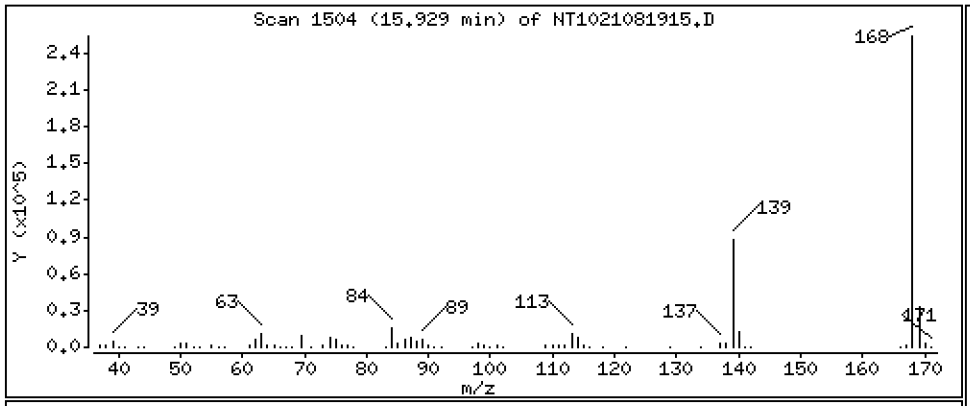
Operator: VTS

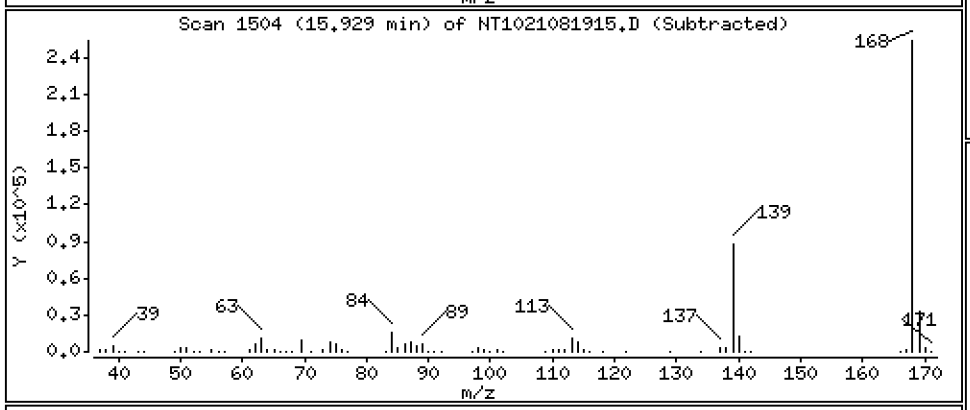
Column phase: ZB-5msi

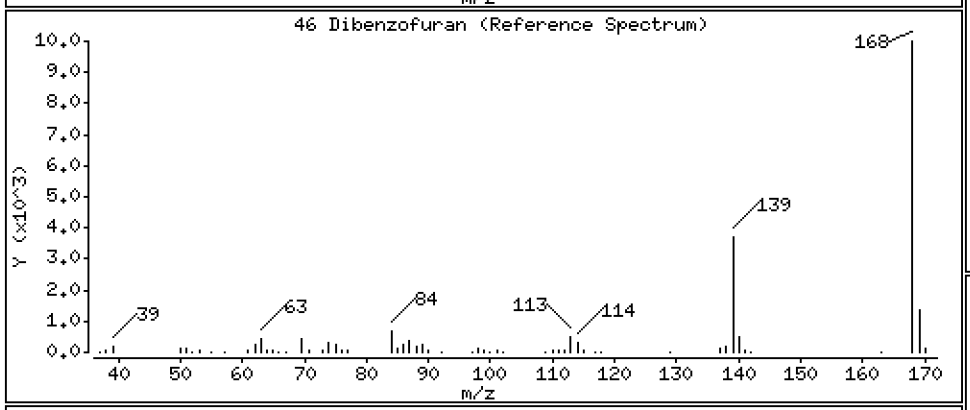
Column diameter: 0.25

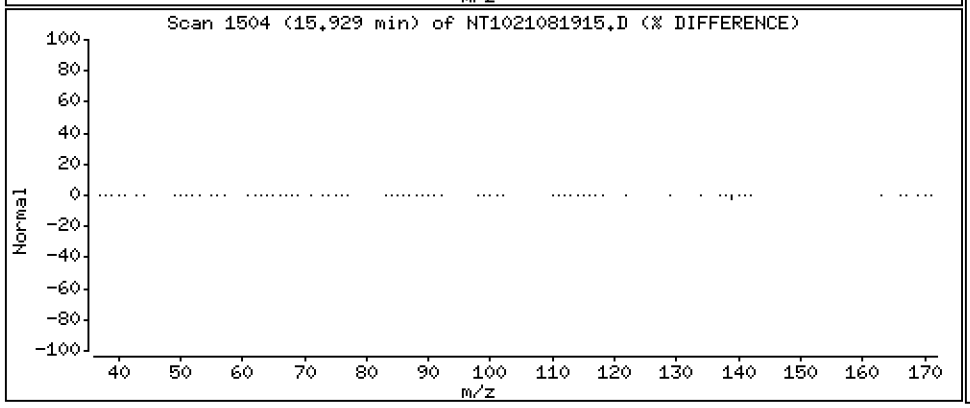
46 Dibenzofuran

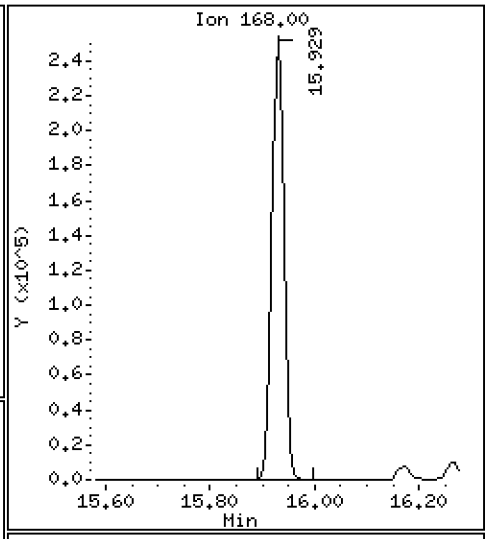
Concentration: 4.691 ug/mL

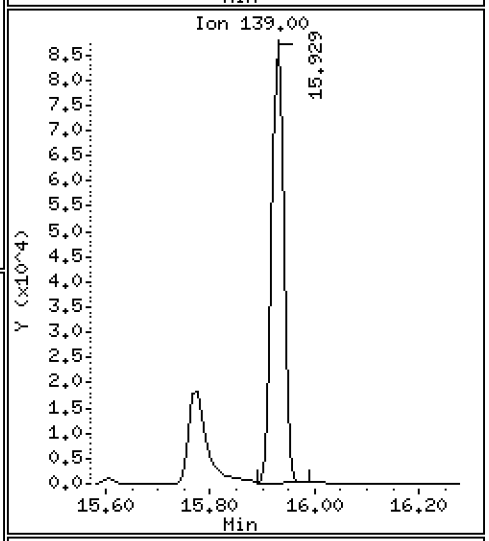


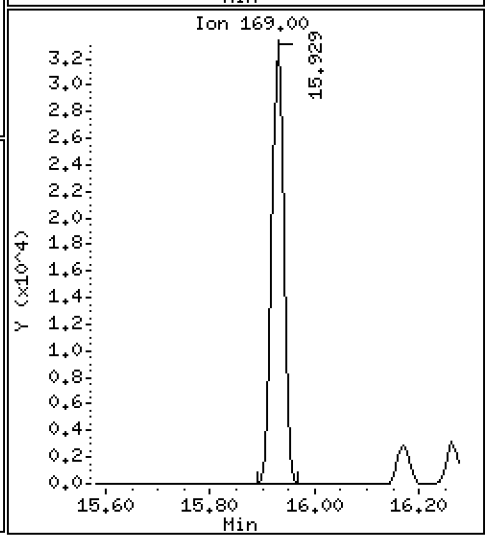












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

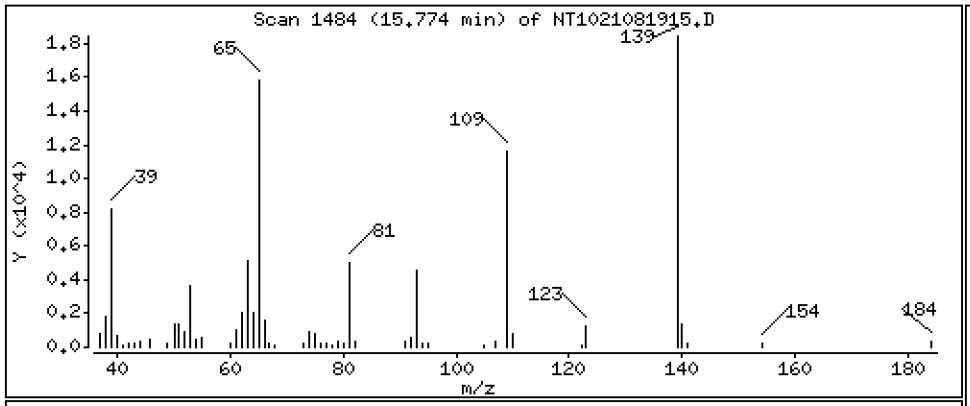
Operator: VTS

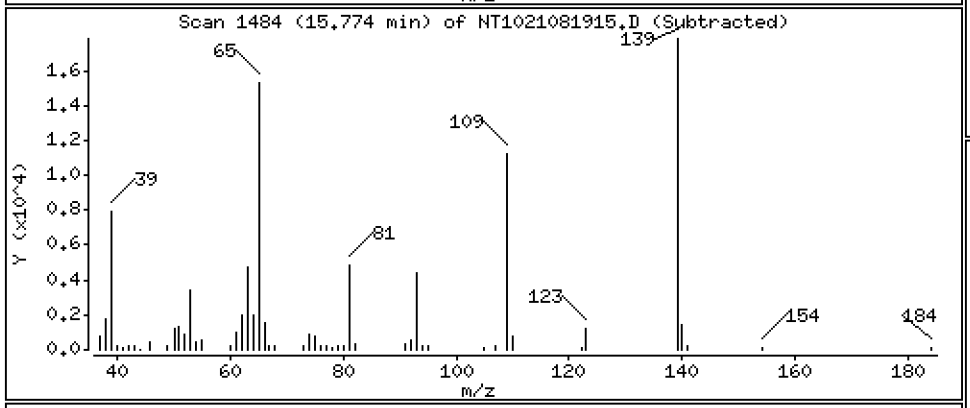
Column phase: ZB-5msi

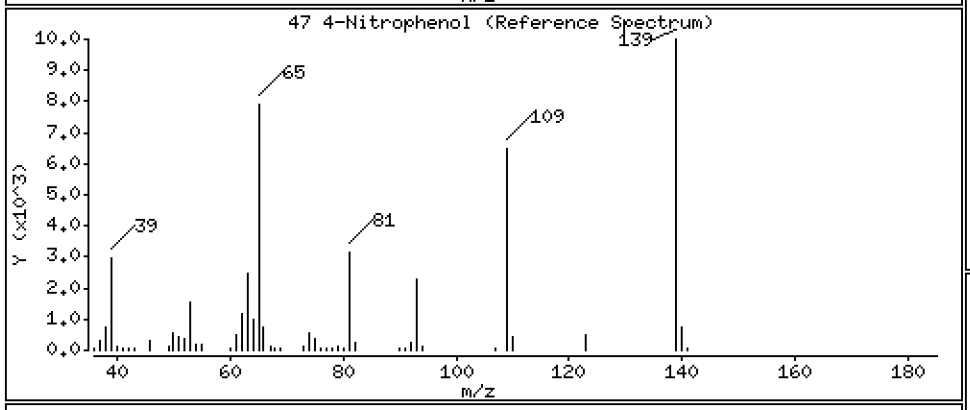
Column diameter: 0.25

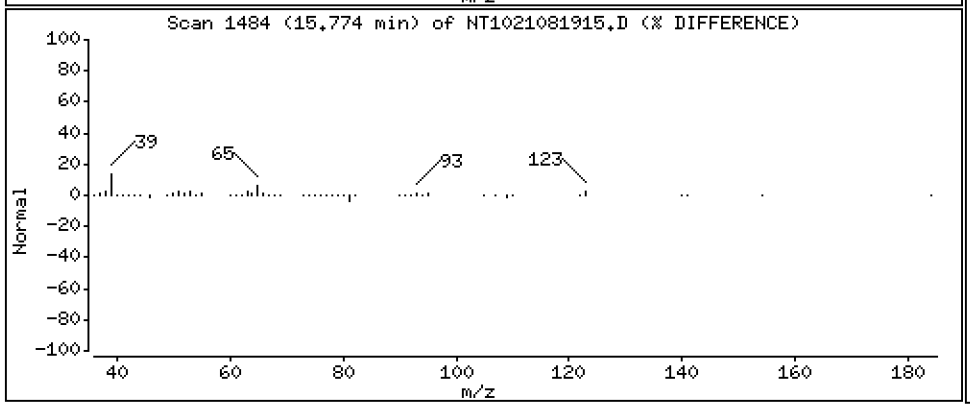
47 4-Nitrophenol

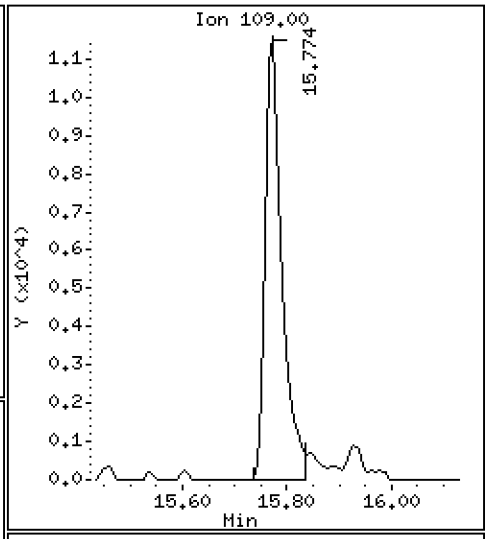
Concentration: 4.018 ug/mL

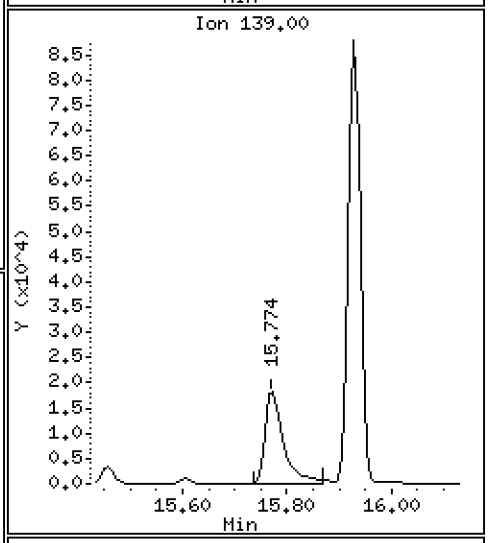


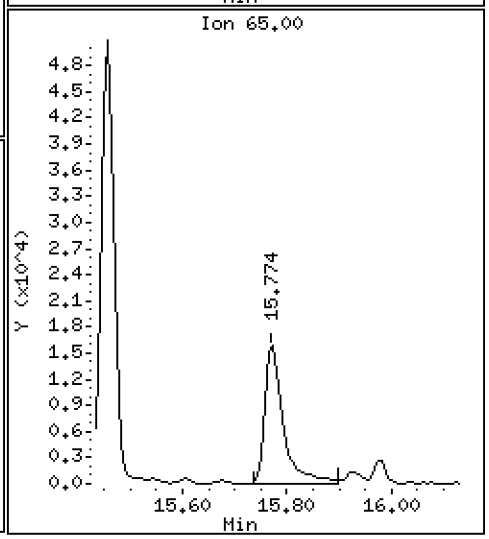












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

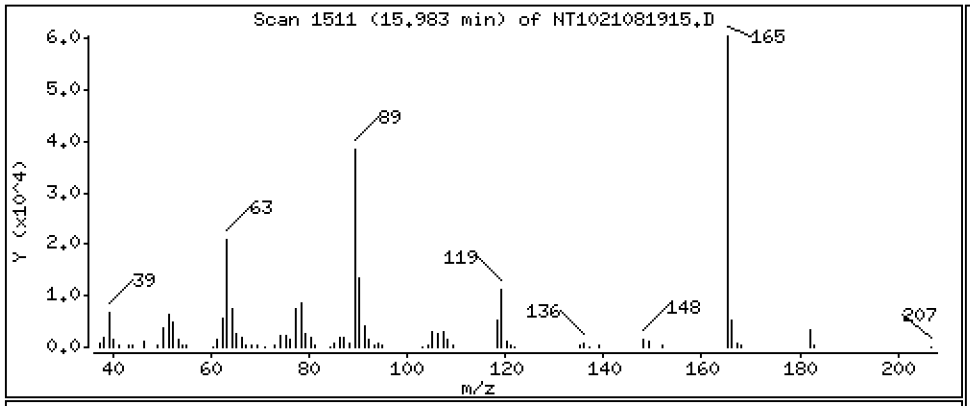
Operator: VTS

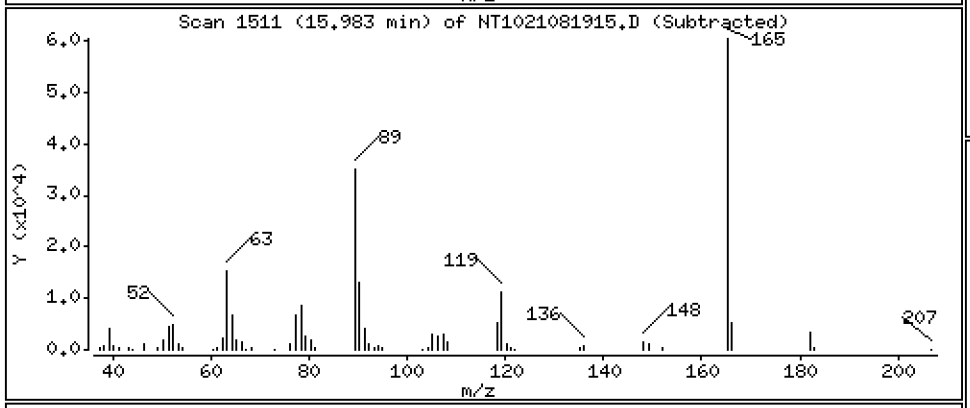
Column phase: ZB-5msi

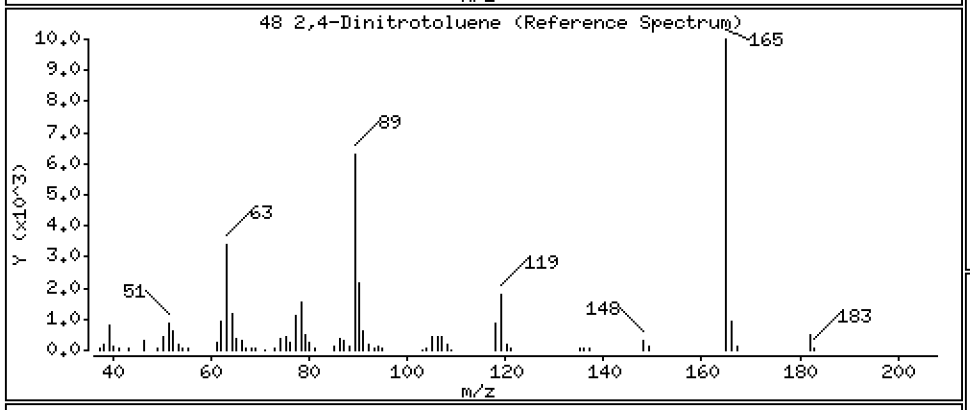
Column diameter: 0.25

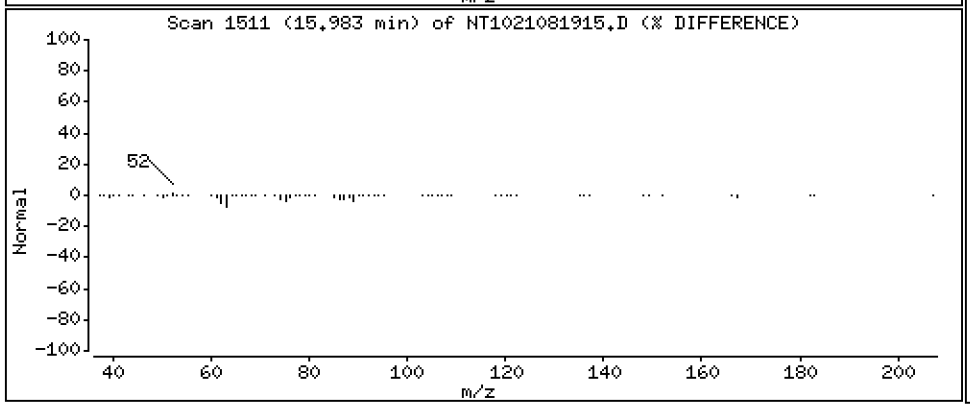
48 2,4-Dinitrotoluene

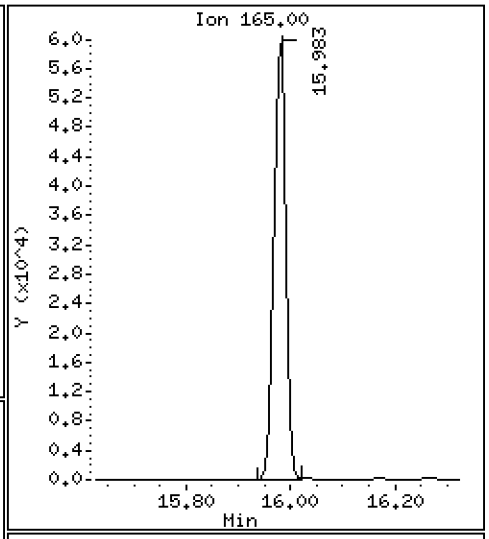
Concentration: 5.106 ug/mL

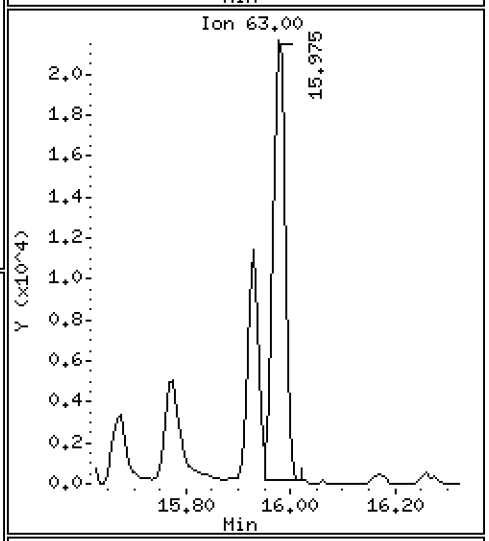


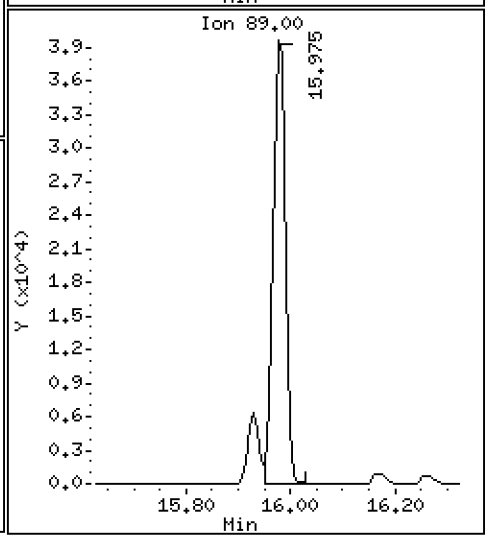












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

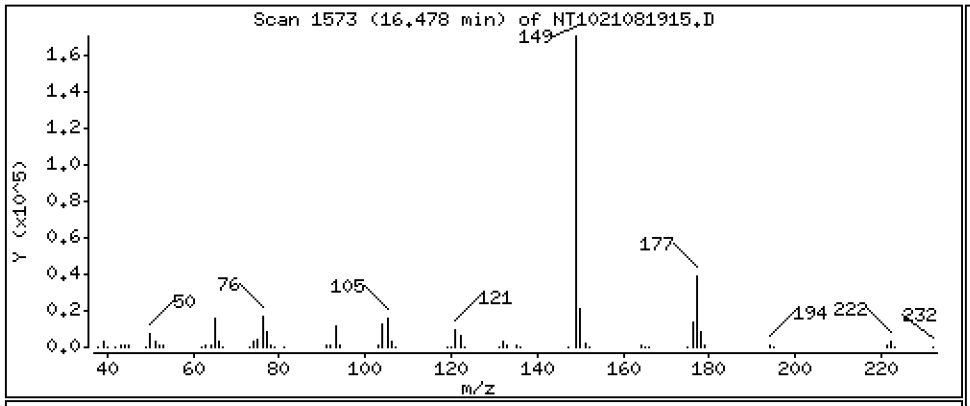
Operator: VTS

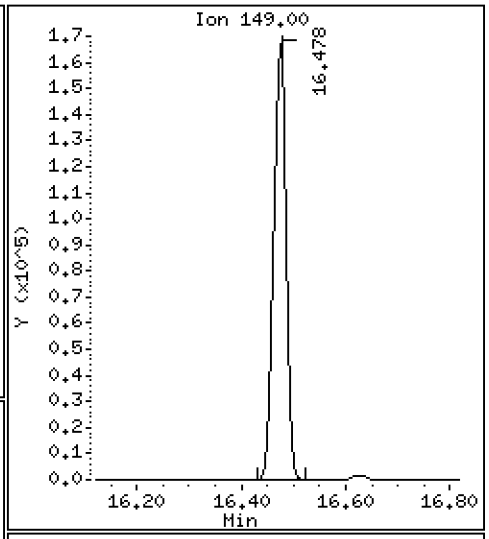
Column phase: ZB-5msi

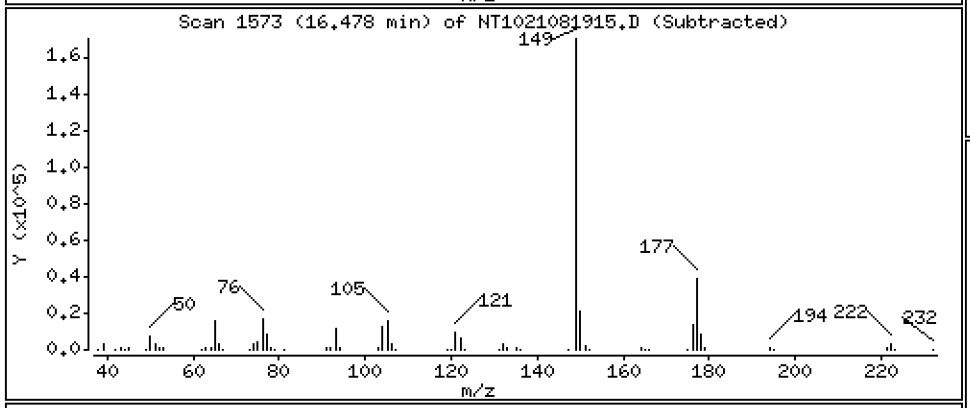
Column diameter: 0.25

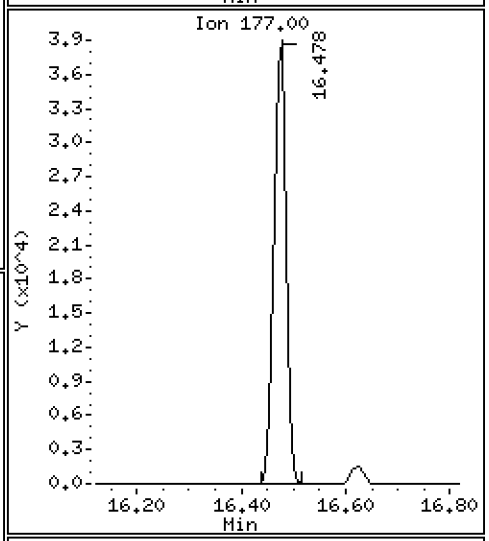
50 Diethylphthalate

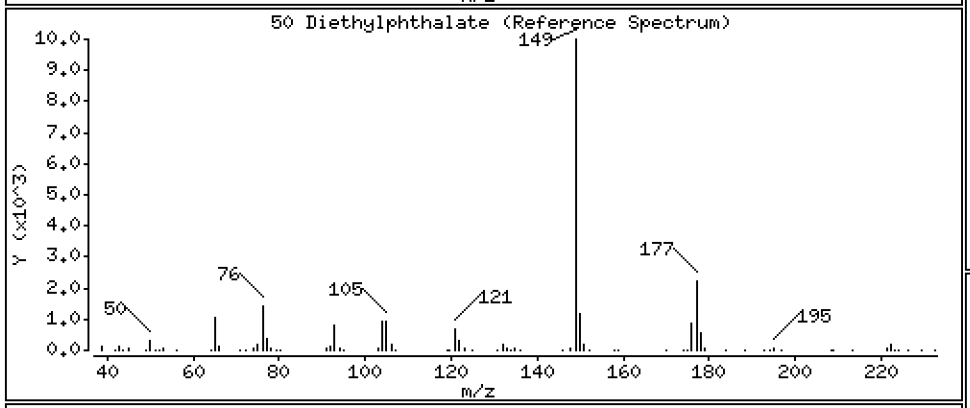
Concentration: 5.096 ug/mL

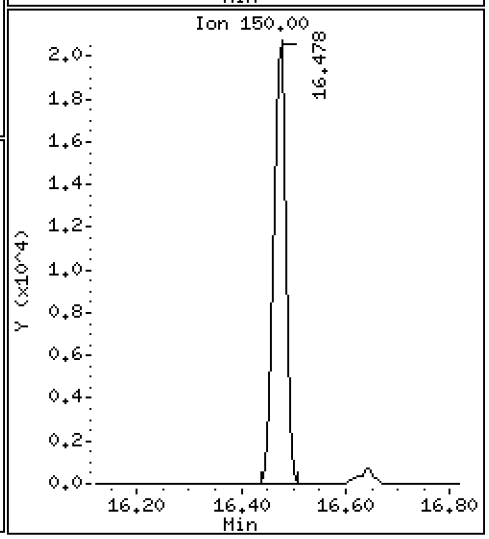


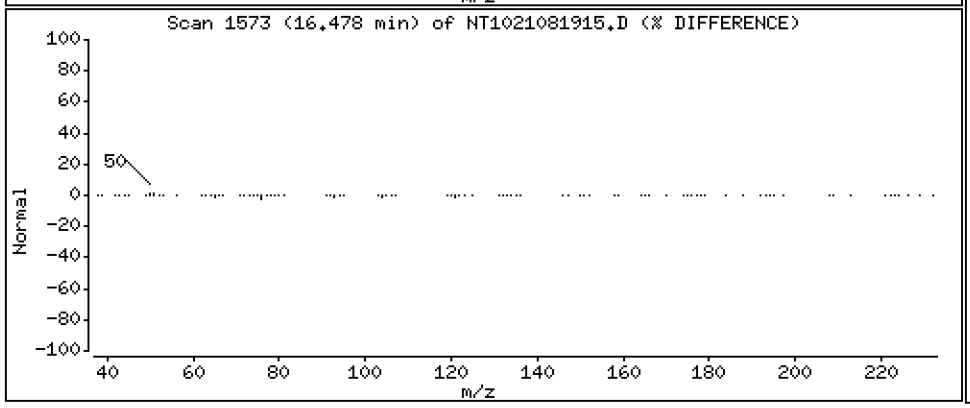












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

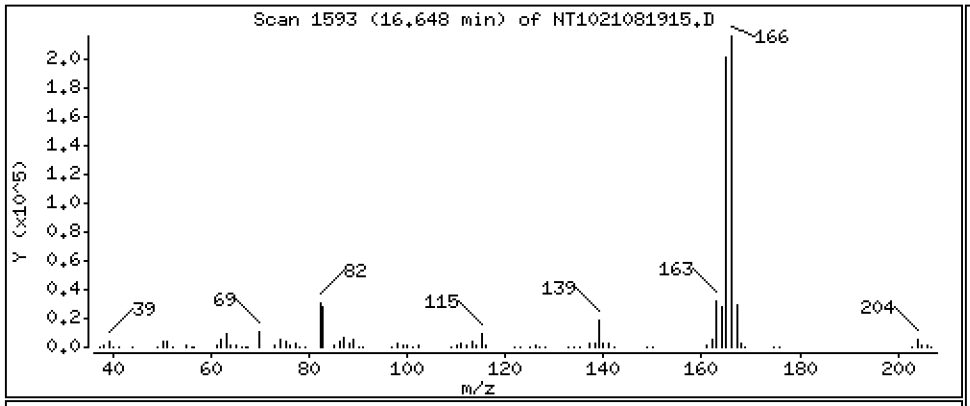
Operator: VTS

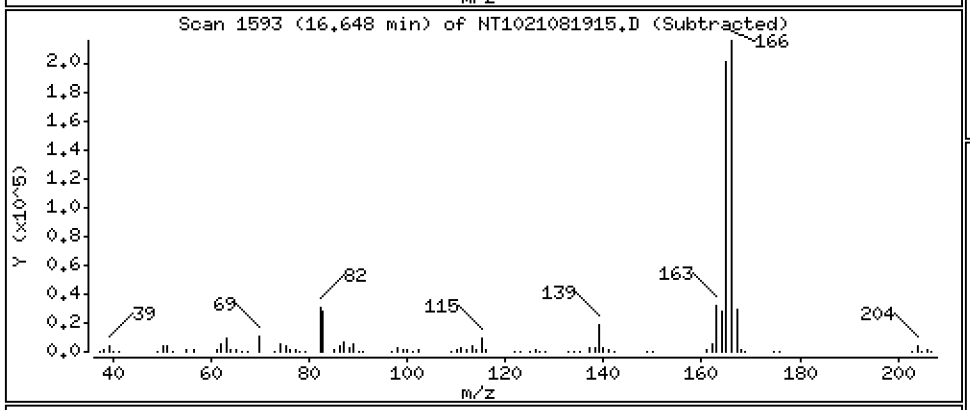
Column phase: ZB-5msi

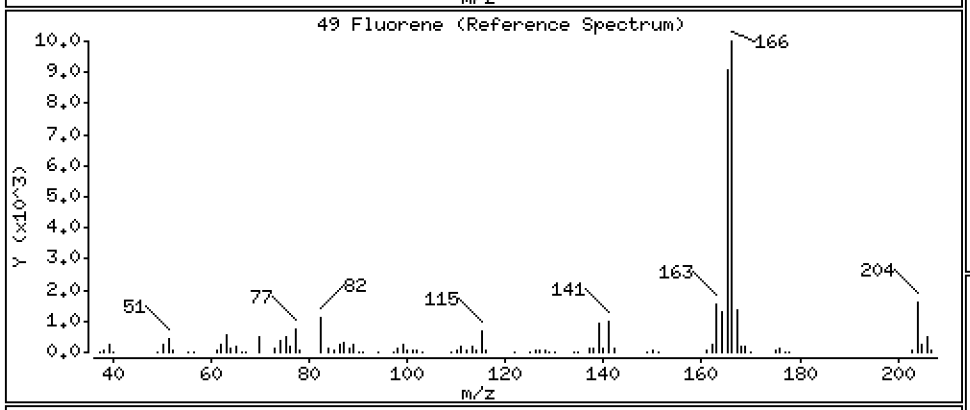
Column diameter: 0.25

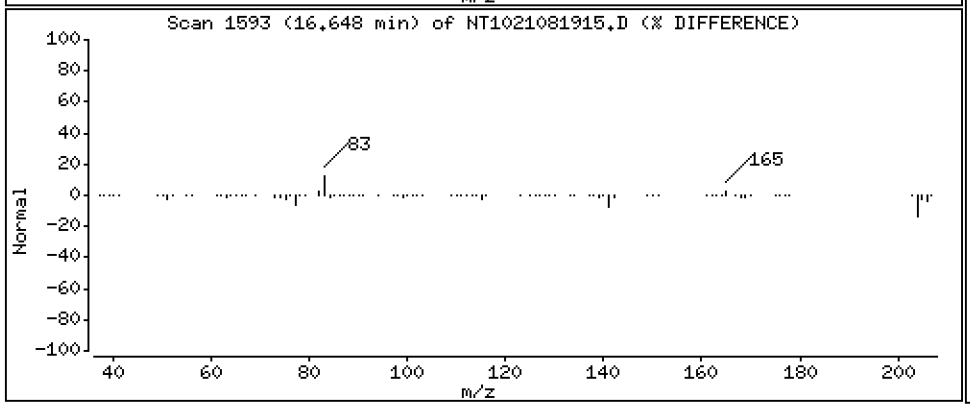
49 Fluorene

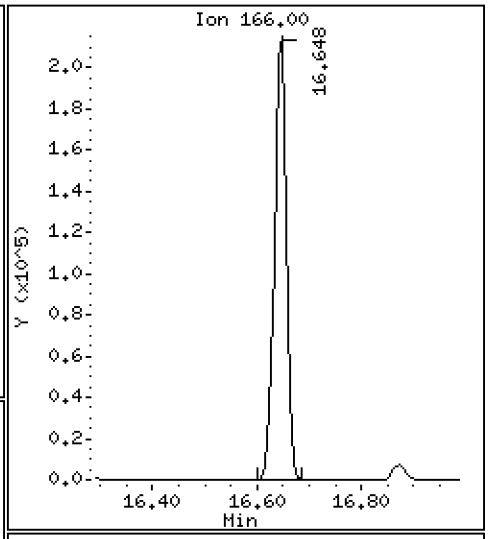
Concentration: 4.723 ug/mL

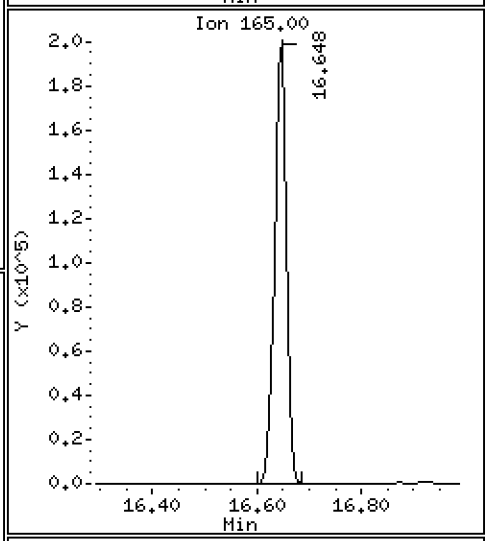


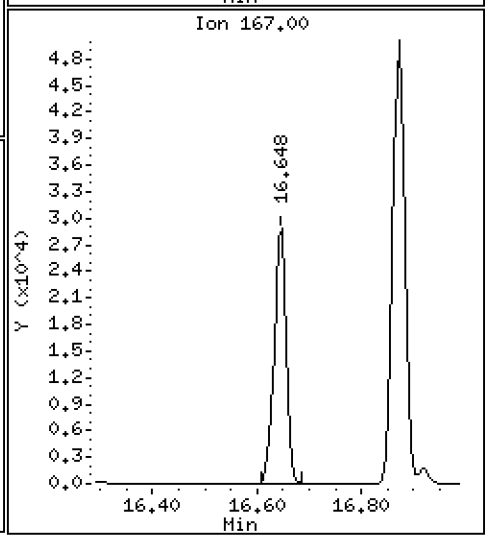












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

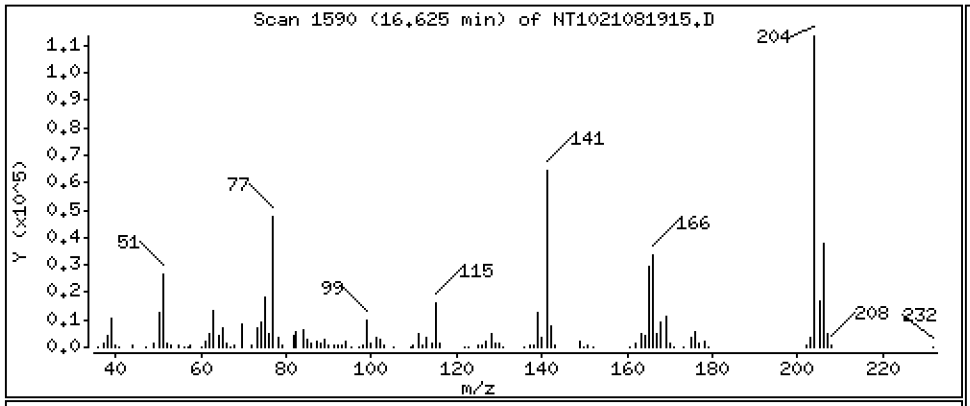
Operator: VTS

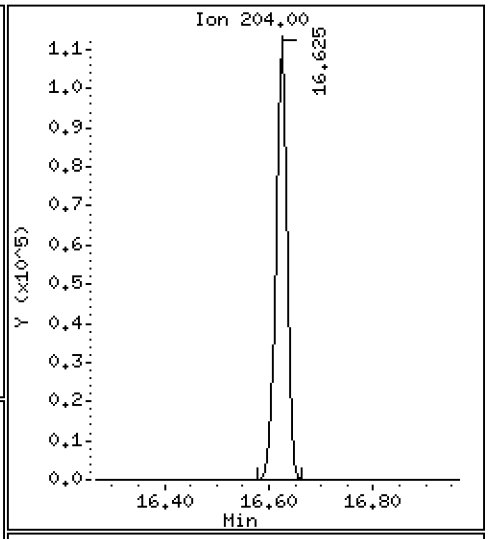
Column phase: ZB-5msi

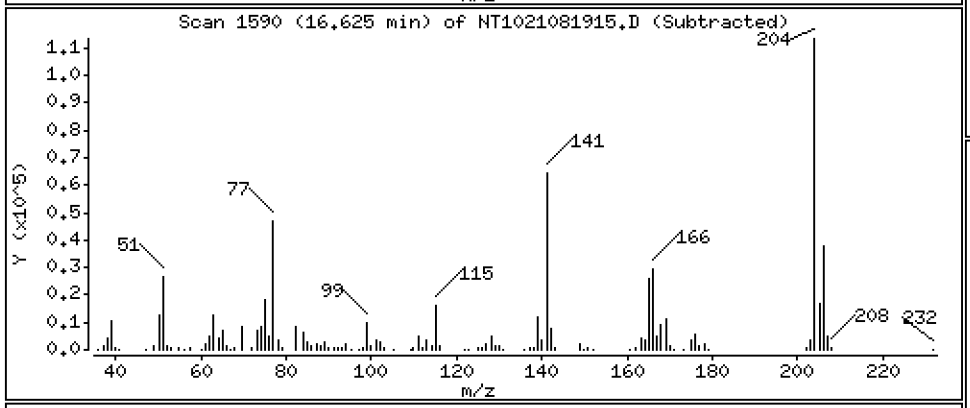
Column diameter: 0.25

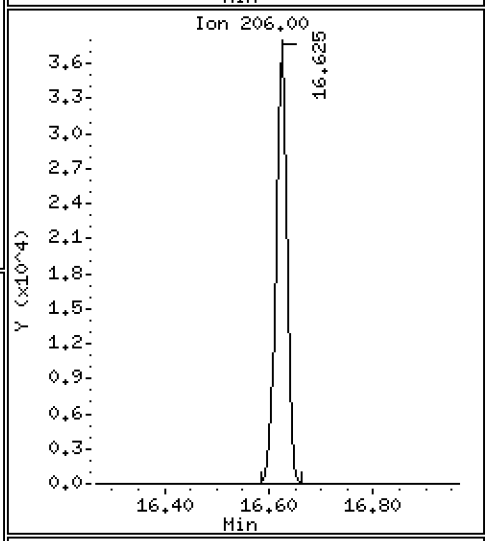
51 4-Chlorophenyl-phenylether

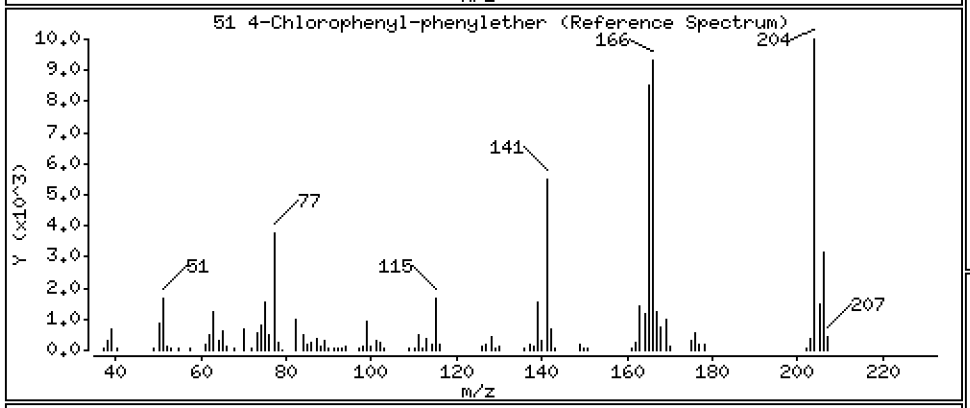
Concentration: 5.187 ug/mL

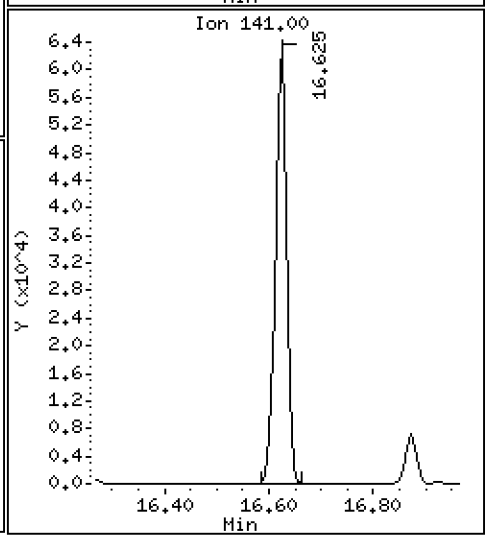


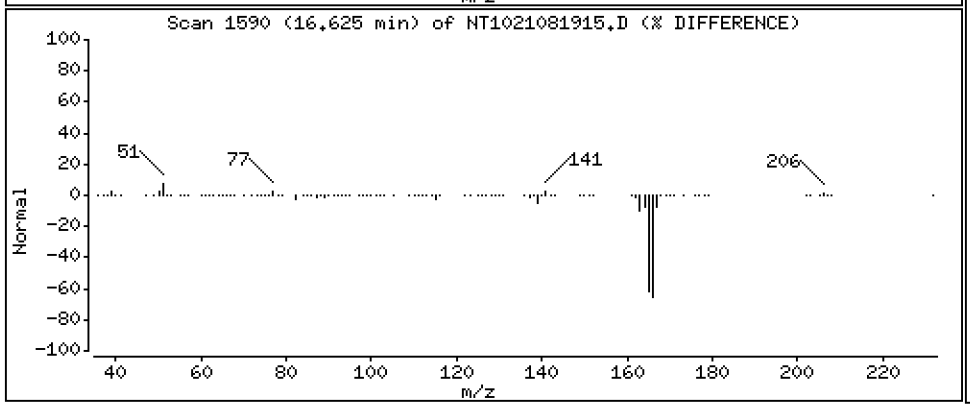












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

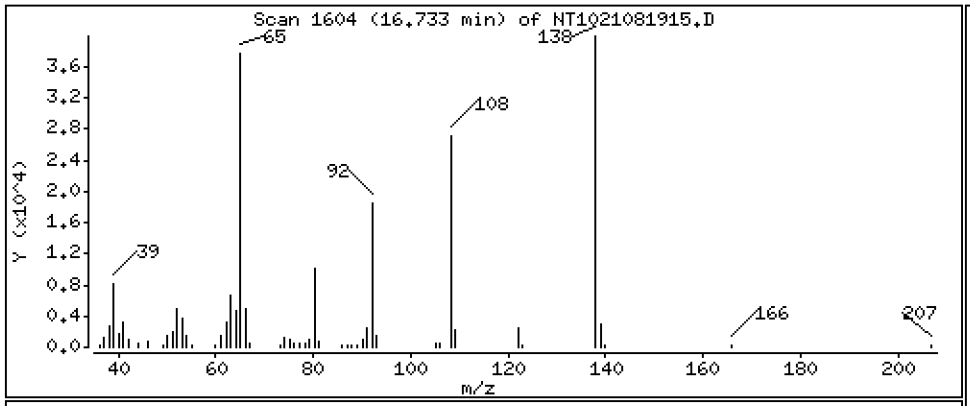
Operator: VTS

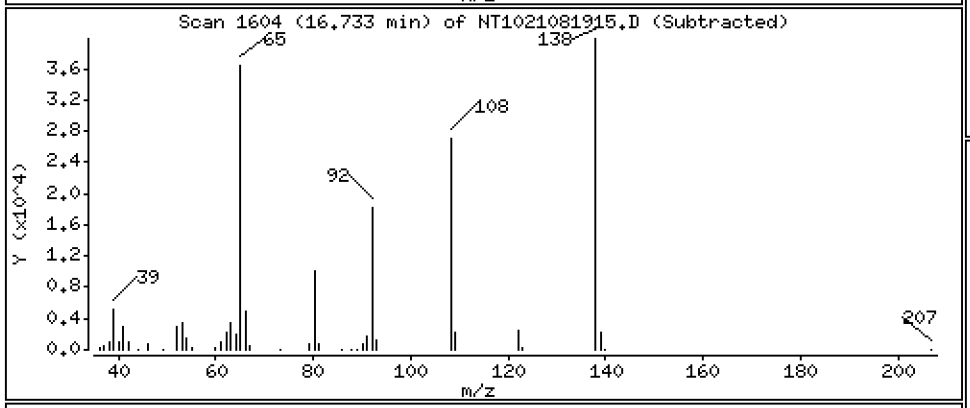
Column phase: ZB-5msi

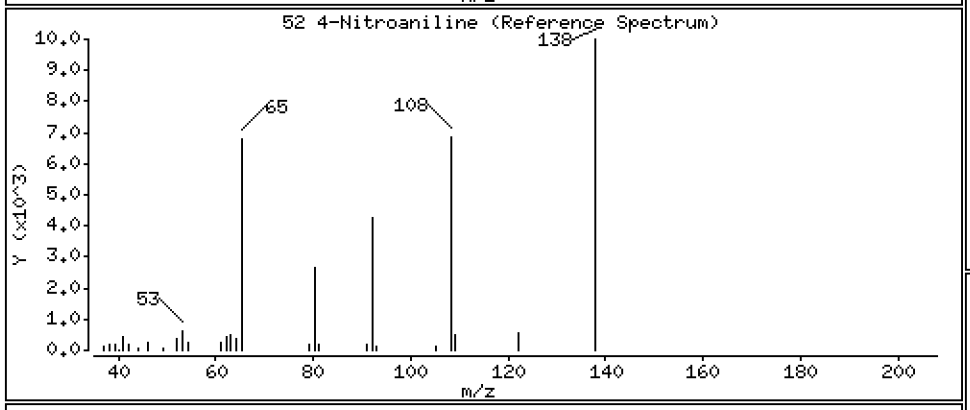
Column diameter: 0.25

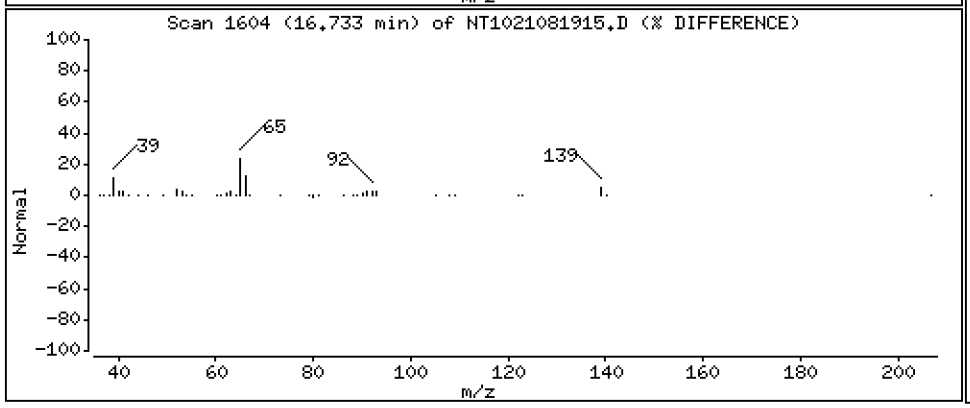
52 4-Nitroaniline

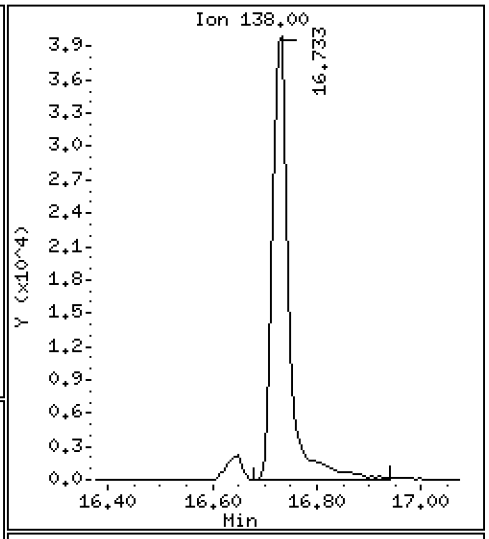
Concentration: 4.788 ug/mL

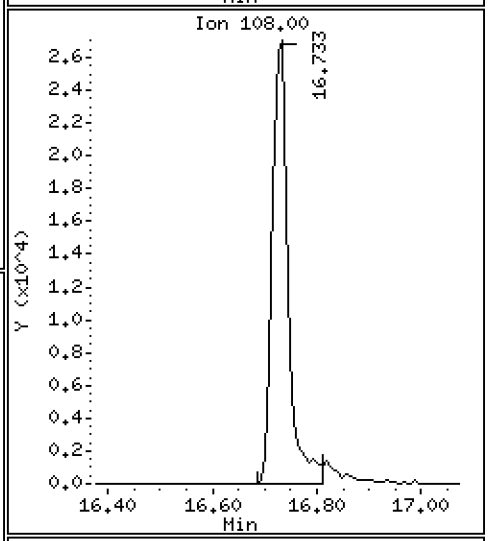


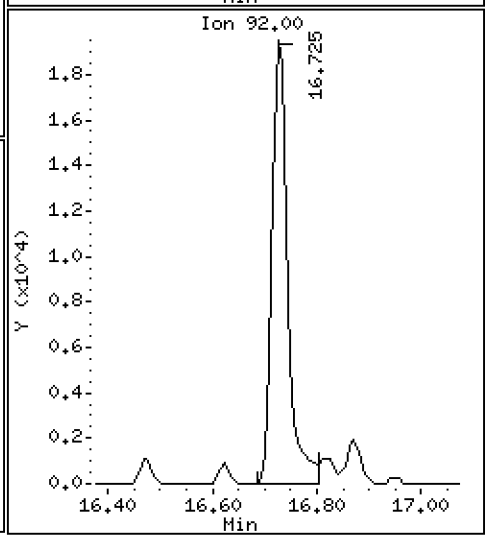












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

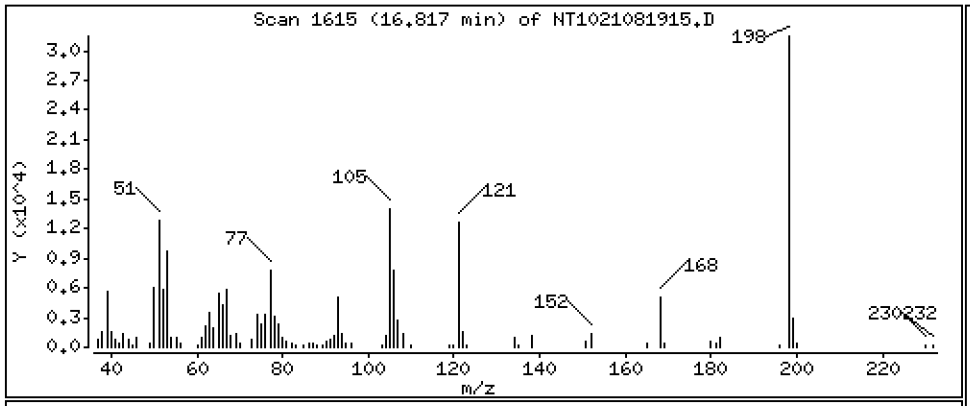
Operator: VTS

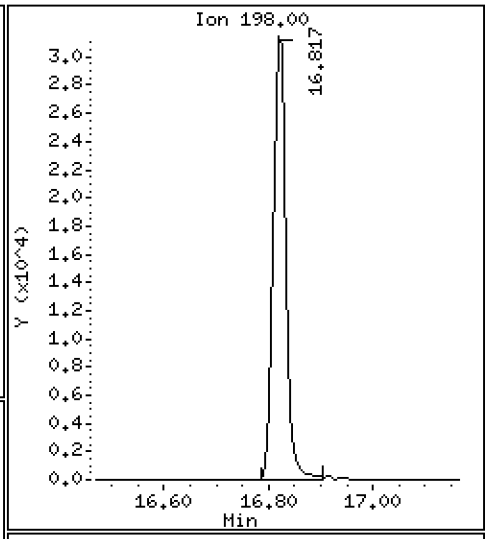
Column phase: ZB-5msi

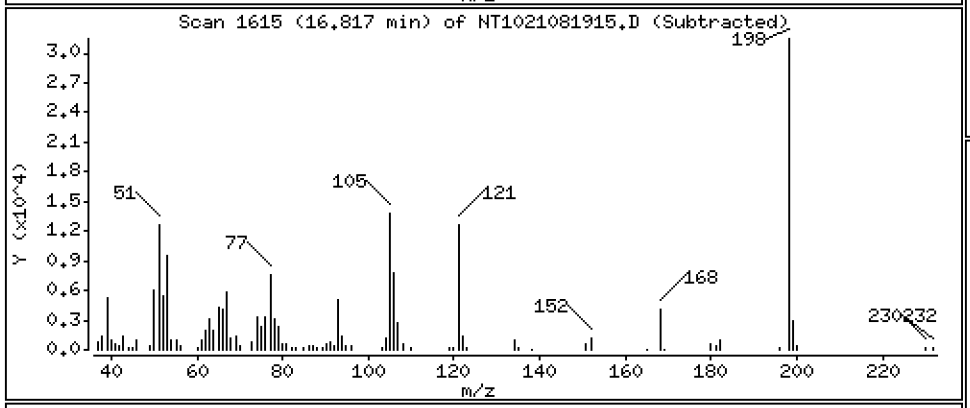
Column diameter: 0.25

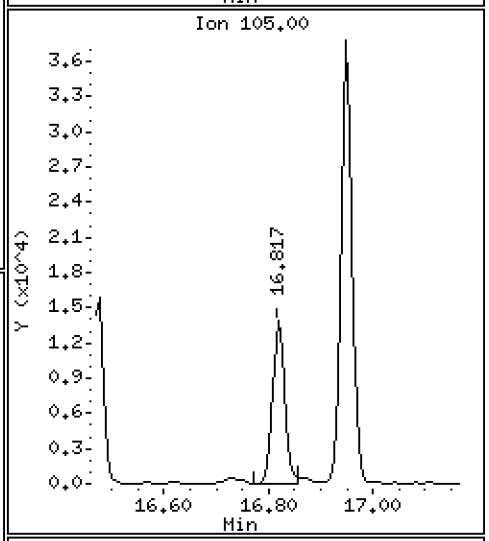
53 4,6-Dinitro-2-methylphenol

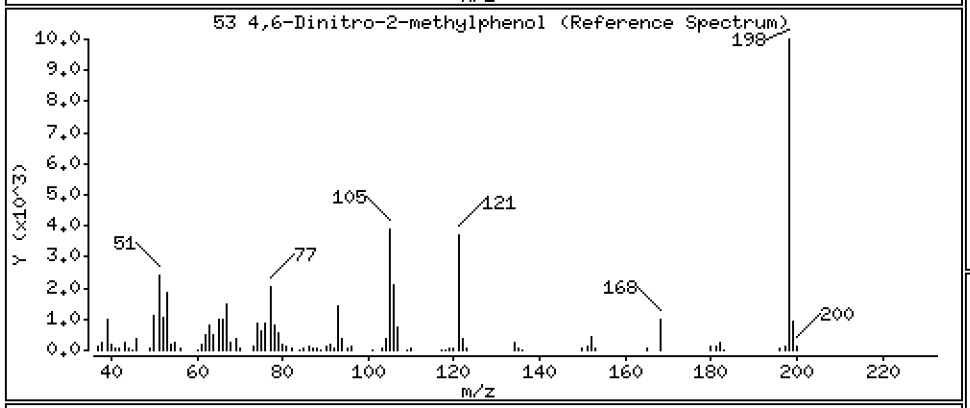
Concentration: 3.885 ug/mL

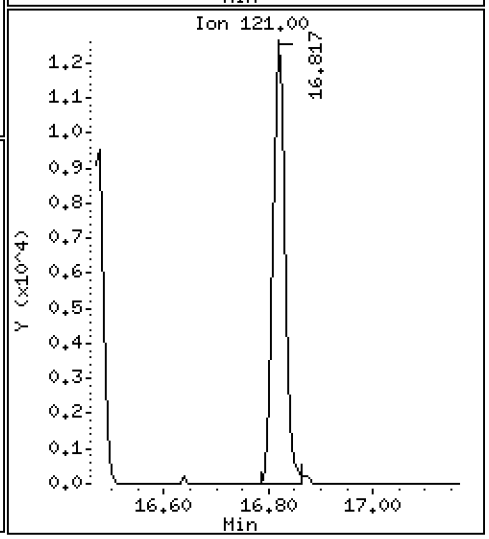


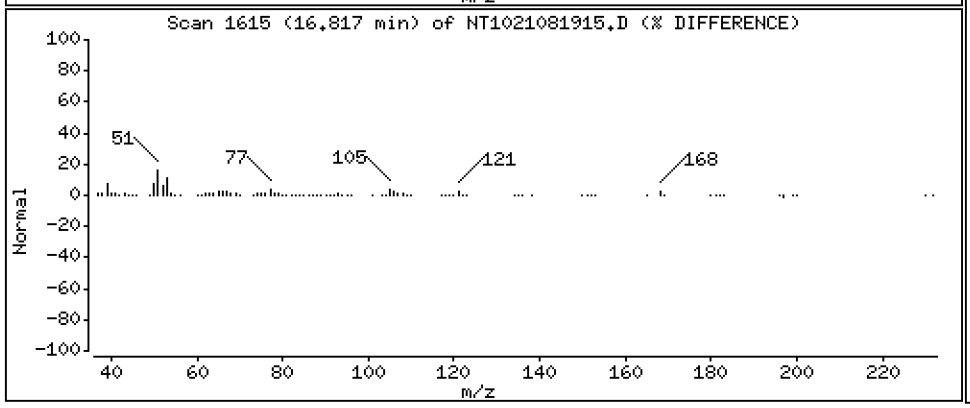












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

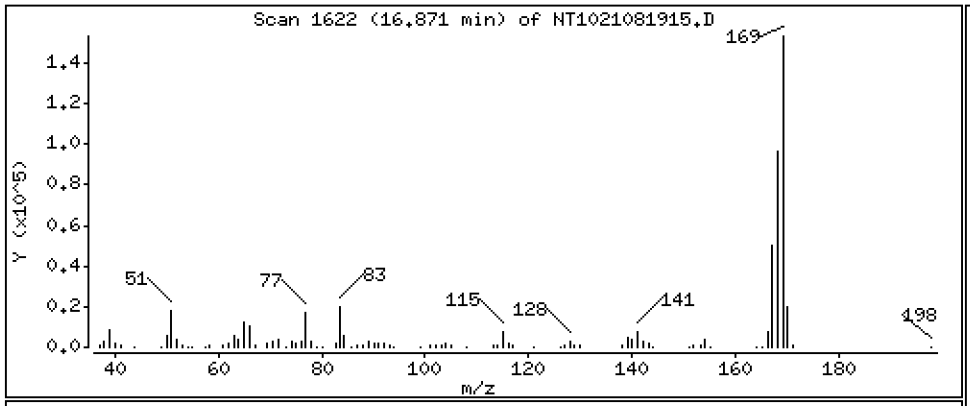
Operator: VTS

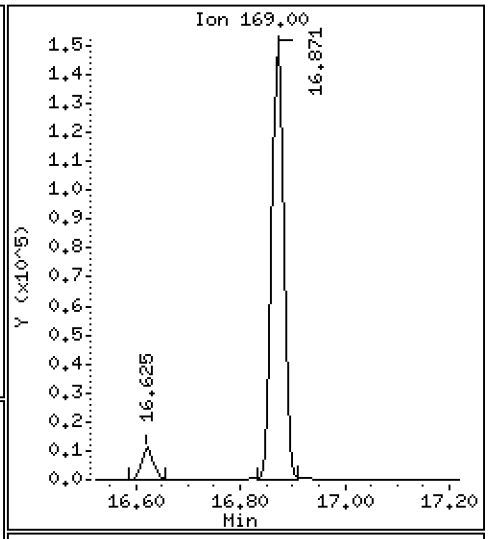
Column phase: ZB-5msi

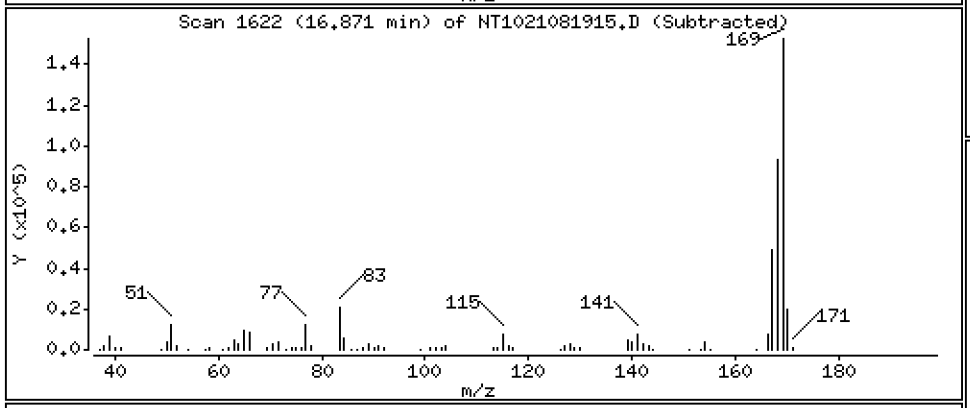
Column diameter: 0.25

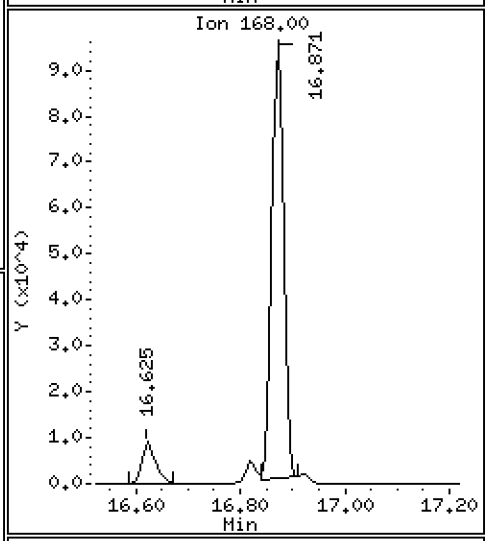
54 N-Nitrosodiphenylamine

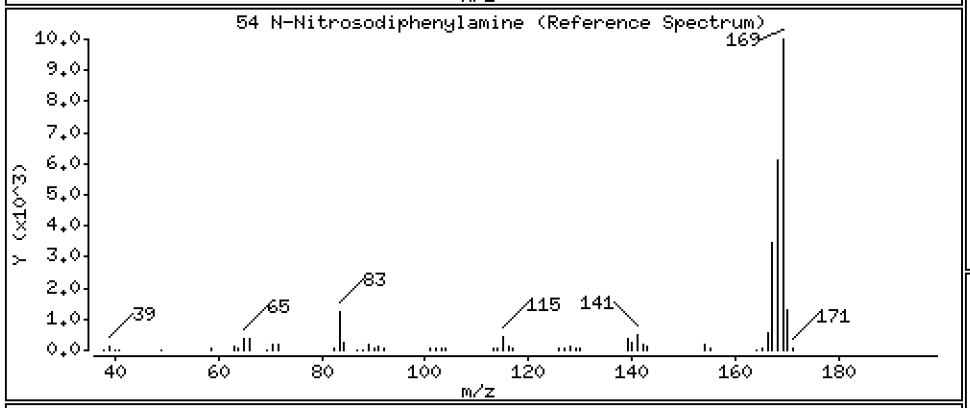
Concentration: 4.835 ug/mL

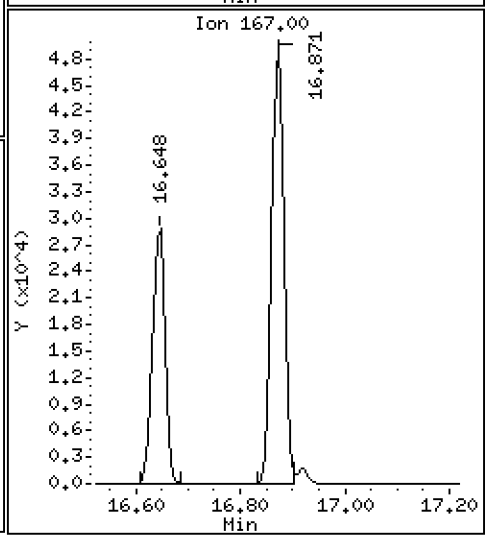


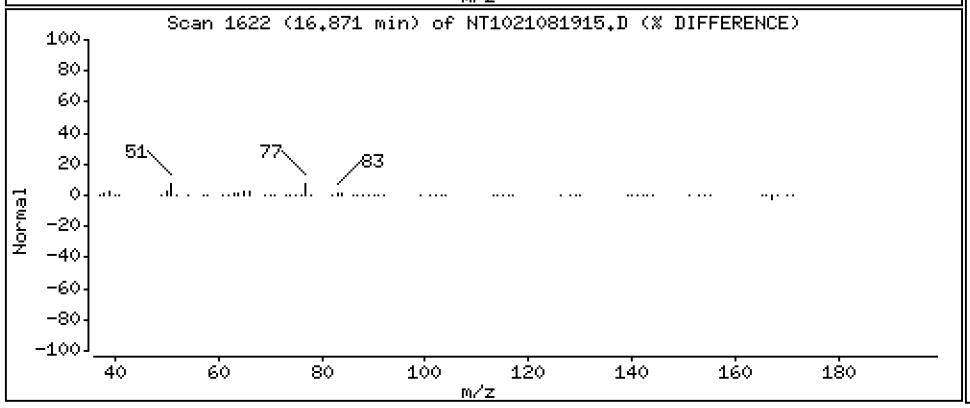












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

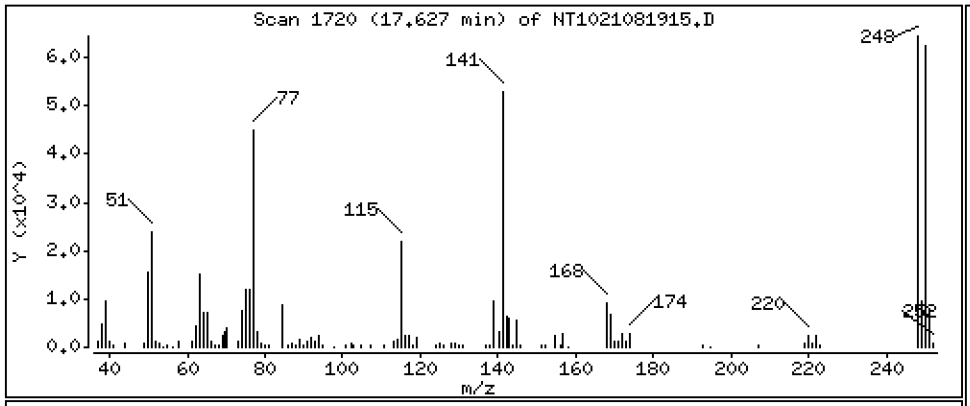
Operator: VTS

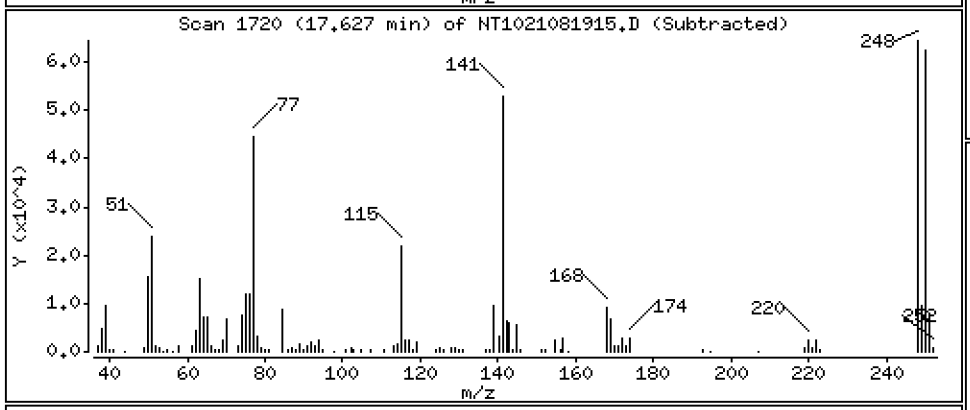
Column phase: ZB-5msi

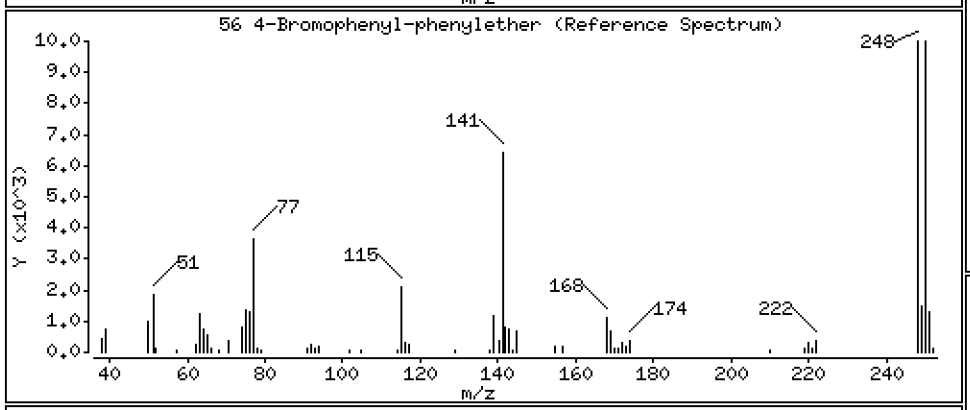
Column diameter: 0.25

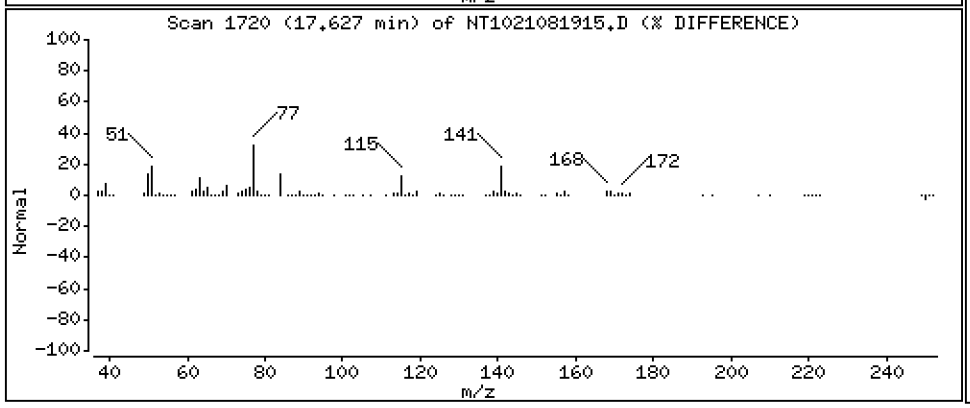
56 4-Bromophenyl-phenylether

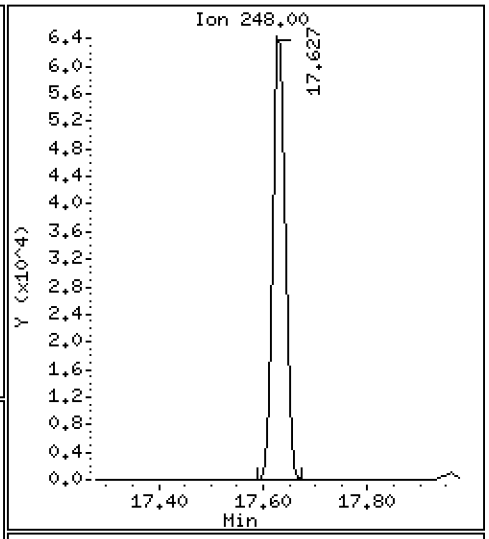
Concentration: 5.399 ug/mL

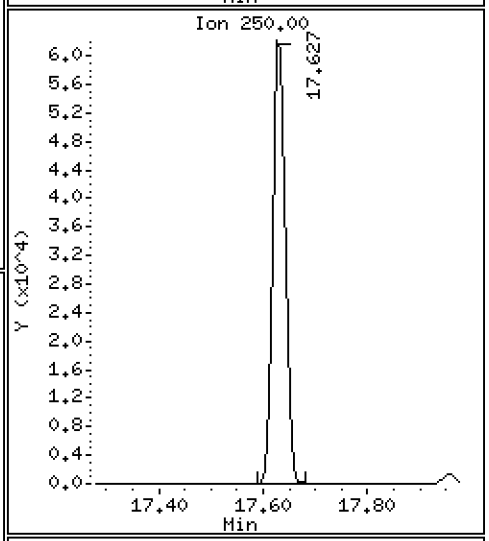


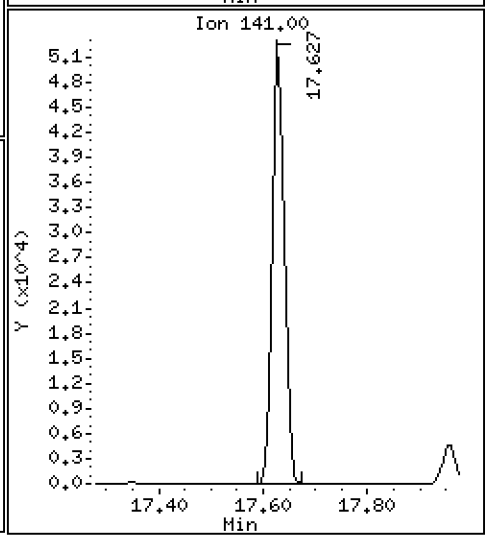












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

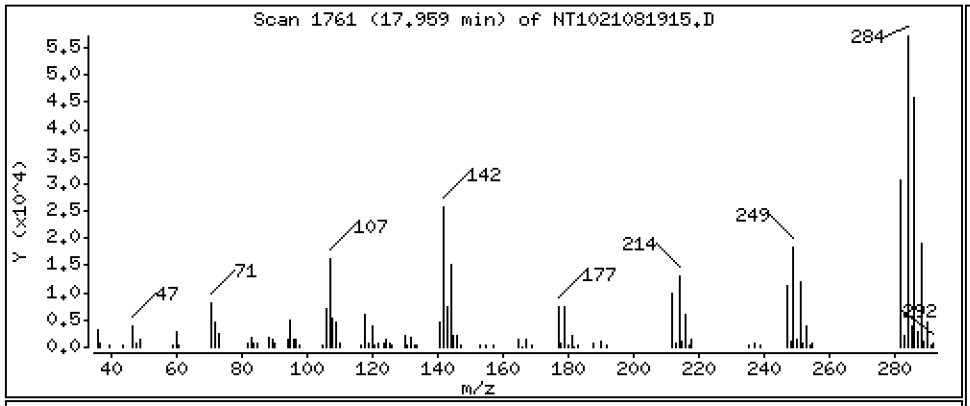
Operator: VTS

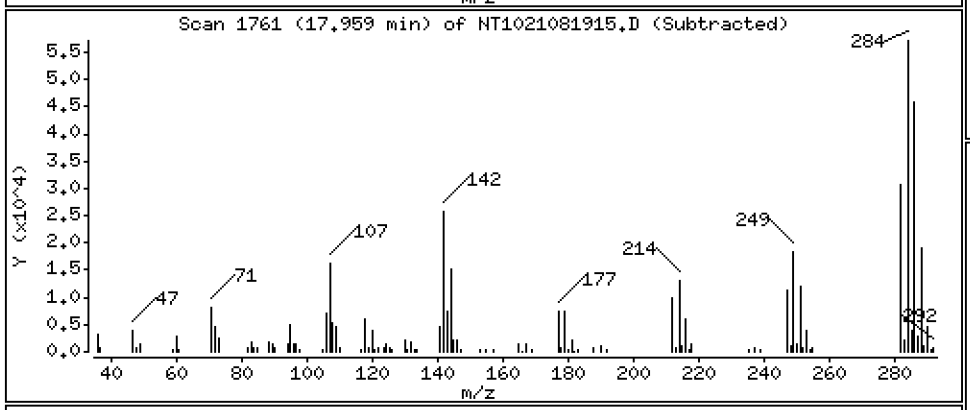
Column phase: ZB-5msi

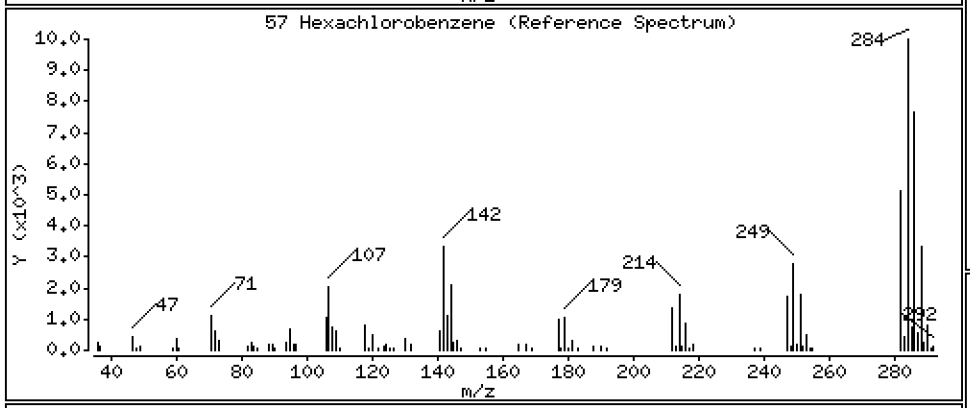
Column diameter: 0.25

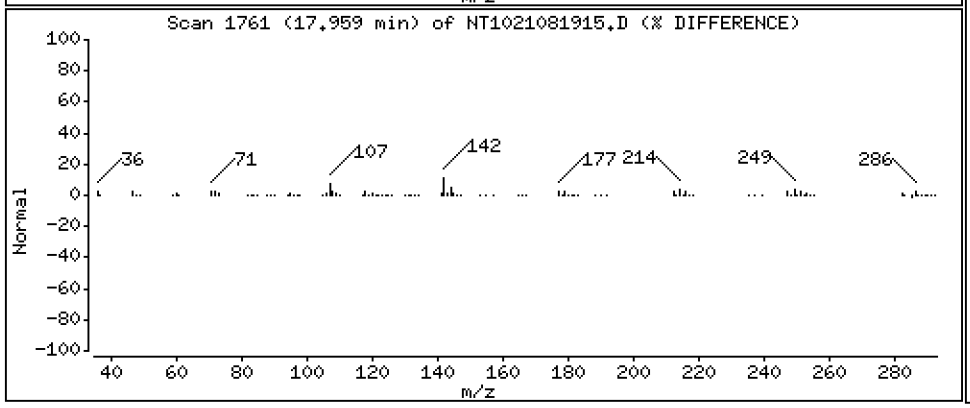
57 Hexachlorobenzene

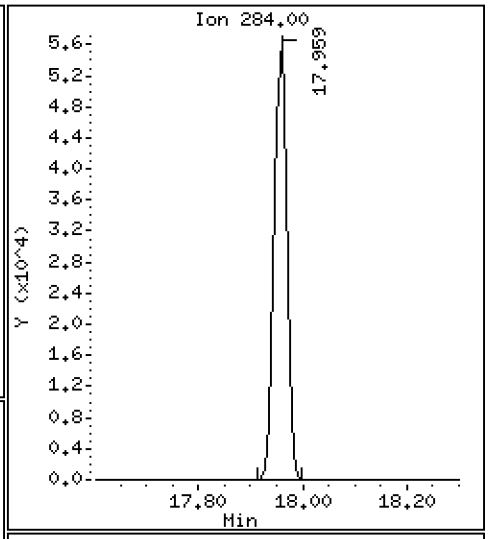
Concentration: 5.063 ug/mL

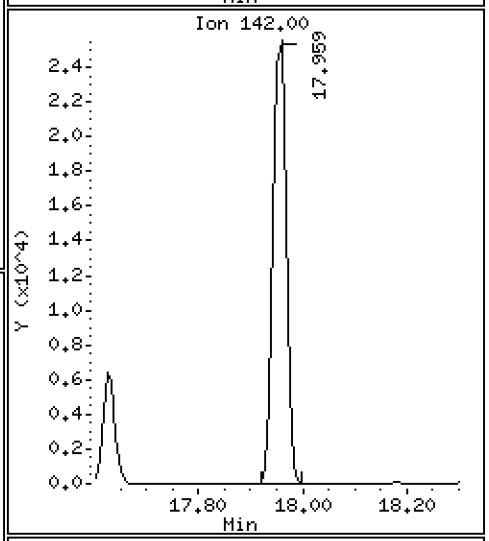


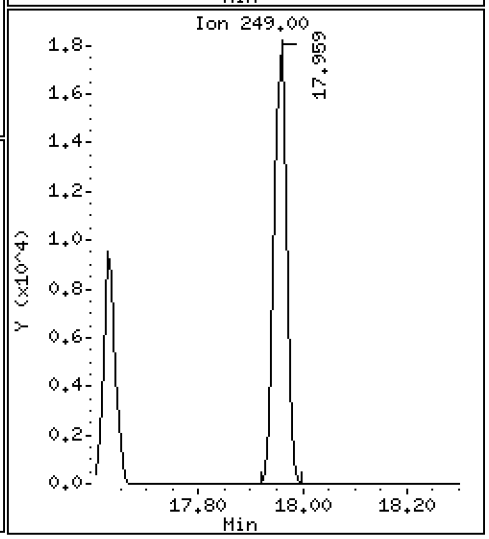












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

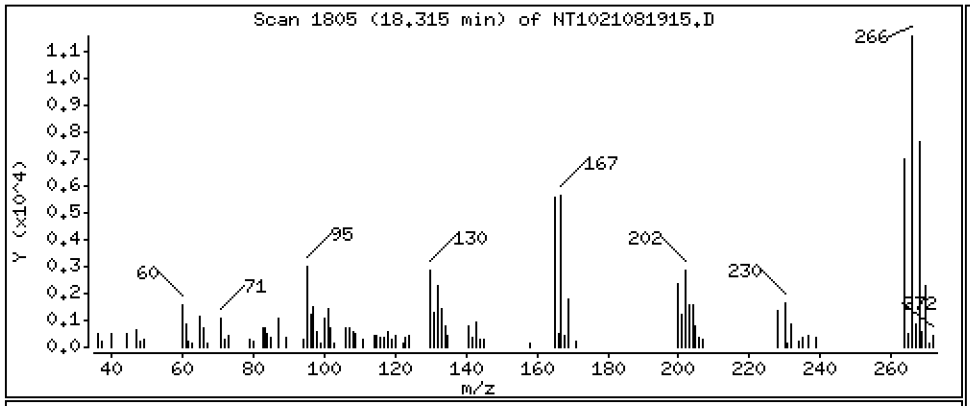
Operator: VTS

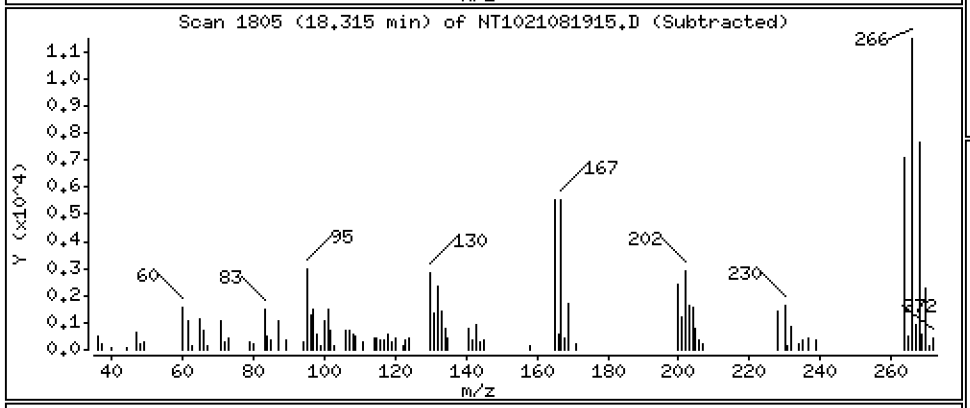
Column phase: ZB-5msi

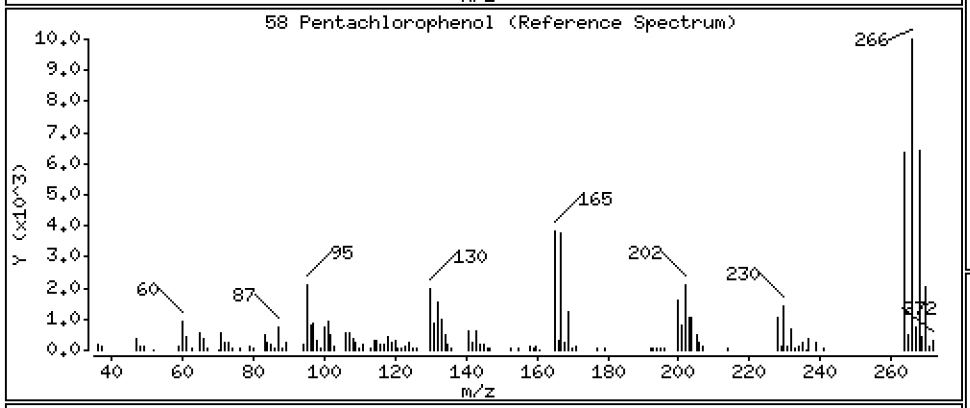
Column diameter: 0.25

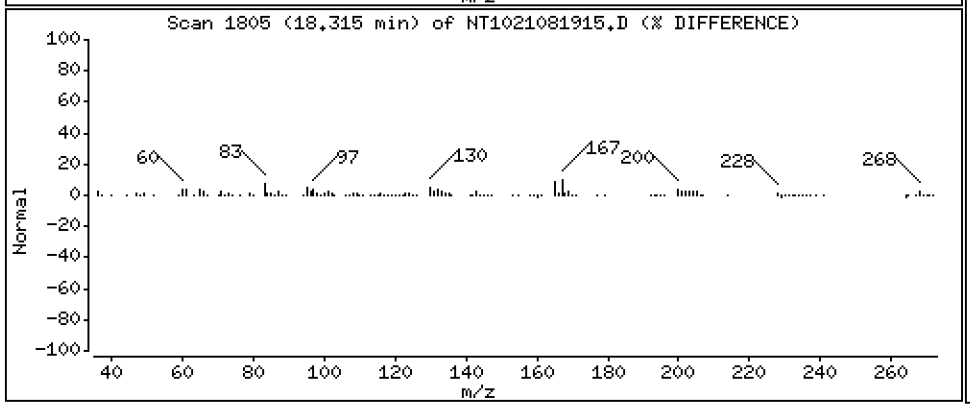
58 Pentachlorophenol

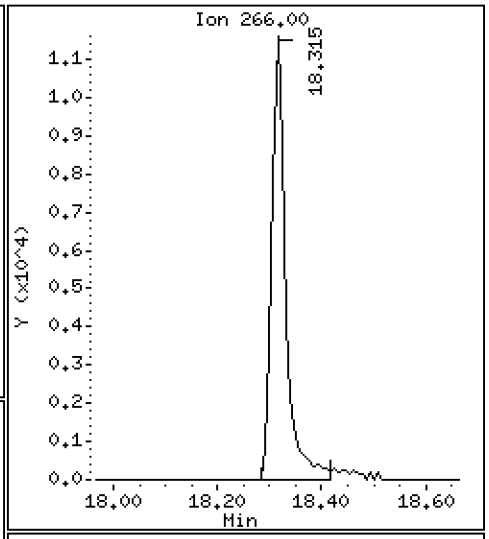
Concentration: 3.120 ug/mL

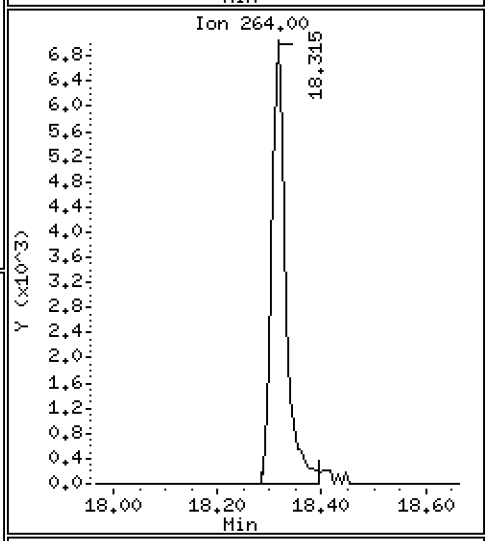


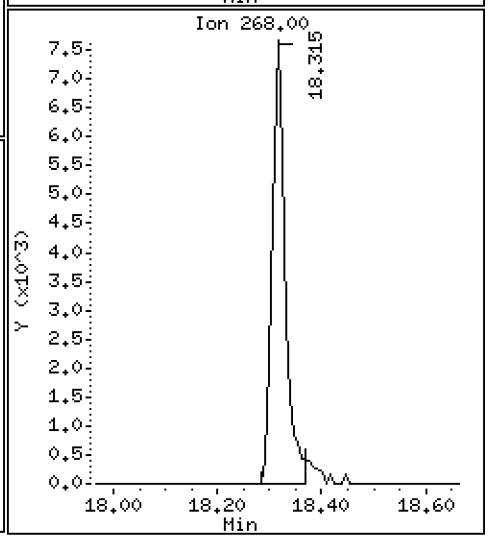












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

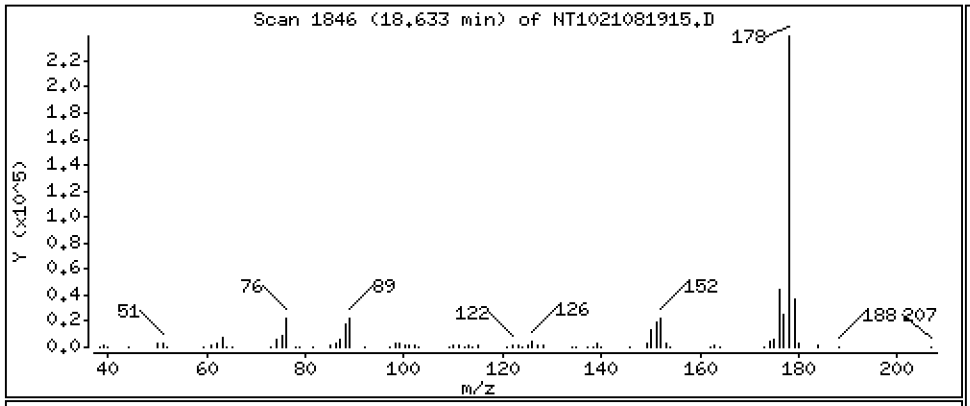
Operator: VTS

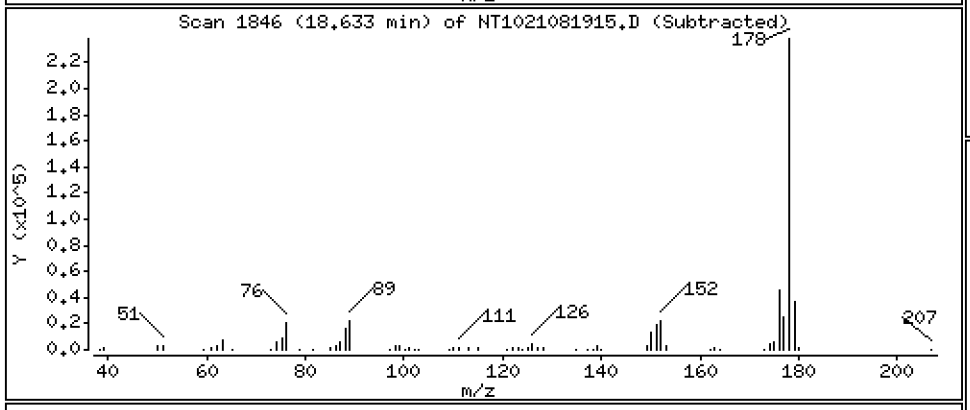
Column phase: ZB-5msi

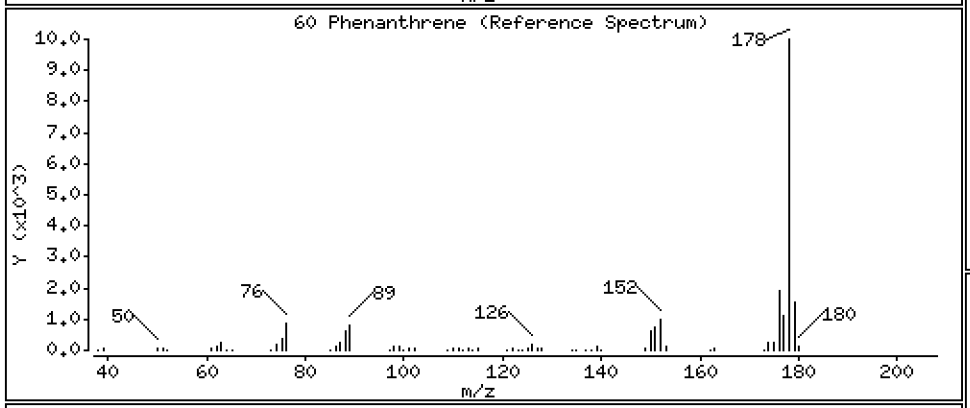
Column diameter: 0.25

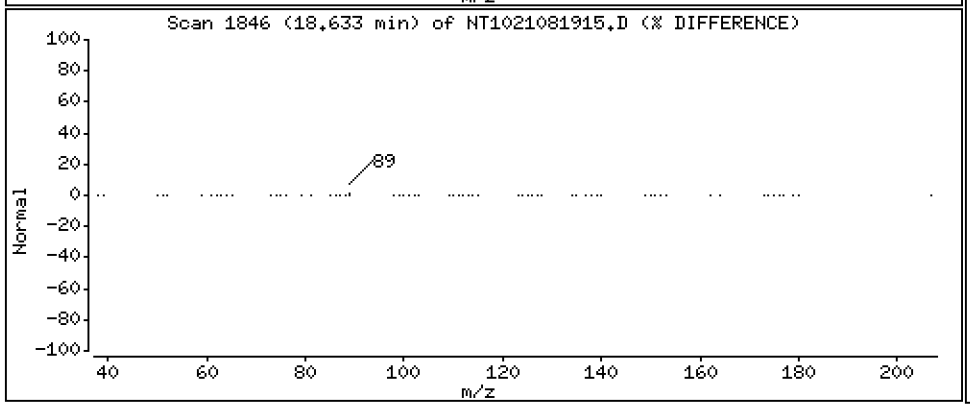
60 Phenanthrene

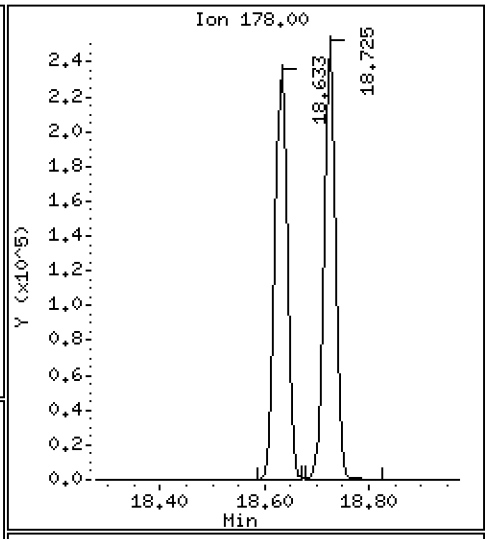
Concentration: 4.855 ug/mL

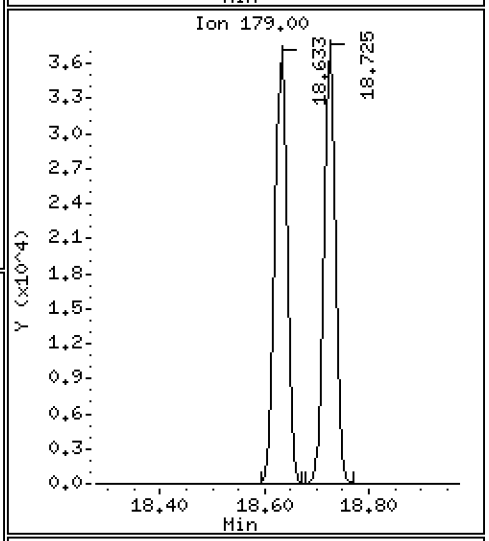


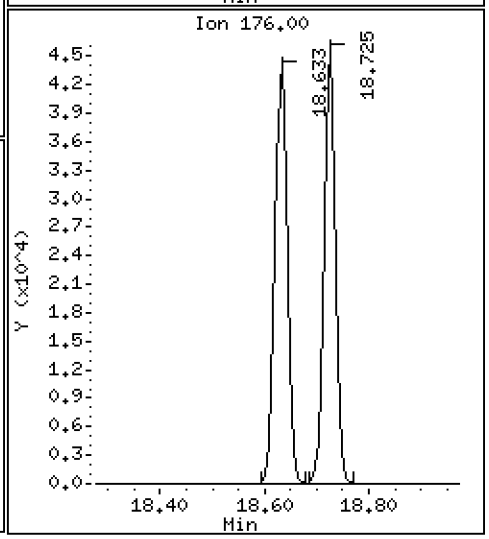












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

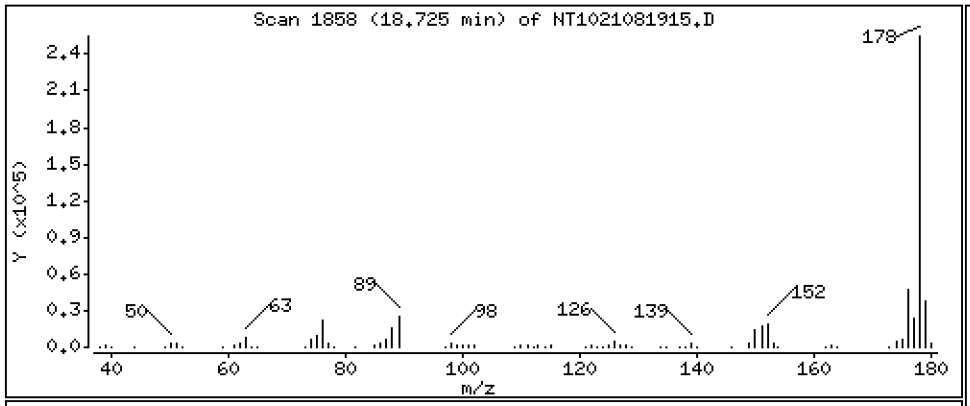
Operator: VTS

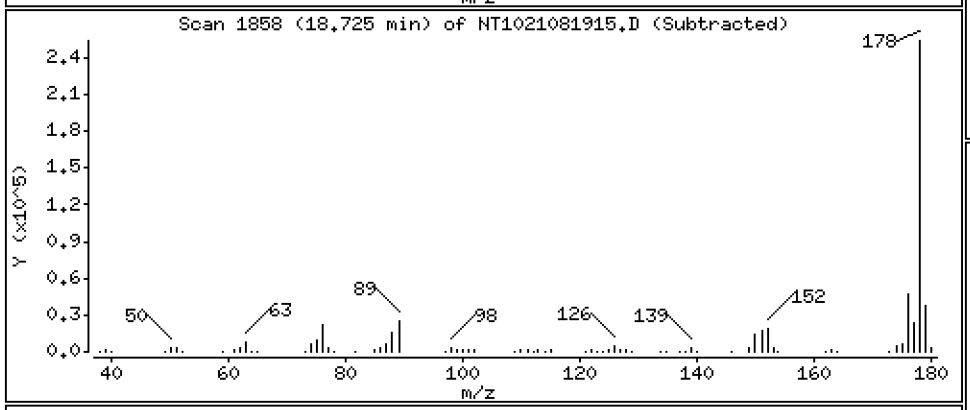
Column phase: ZB-5msi

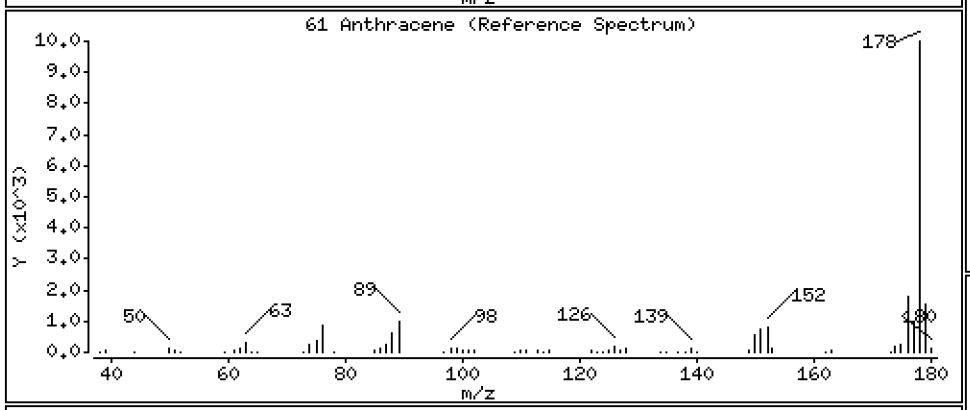
Column diameter: 0.25

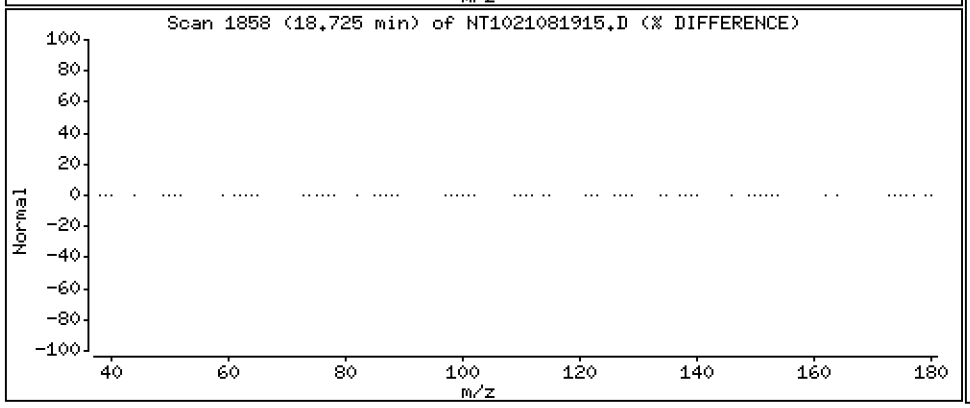
61 Anthracene

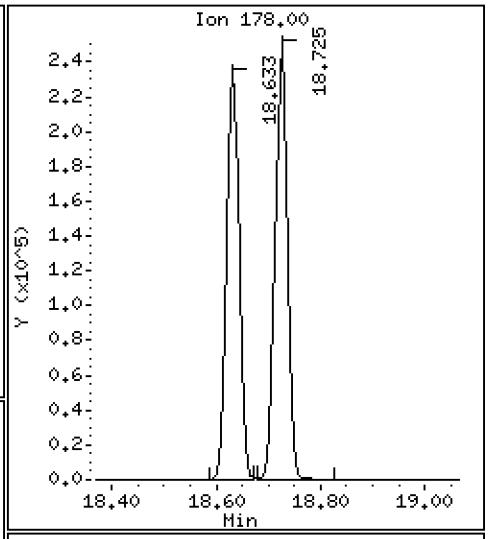
Concentration: 4.813 ug/mL

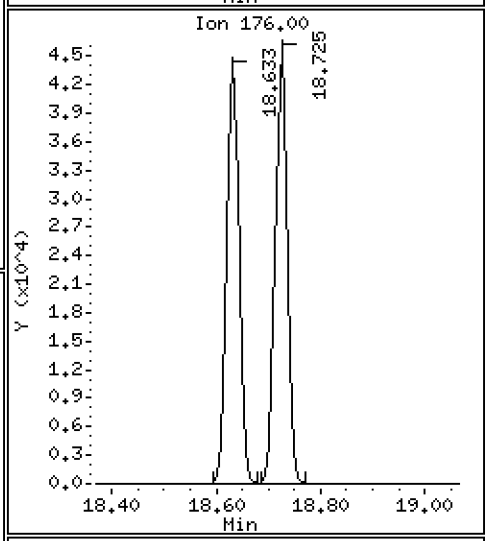


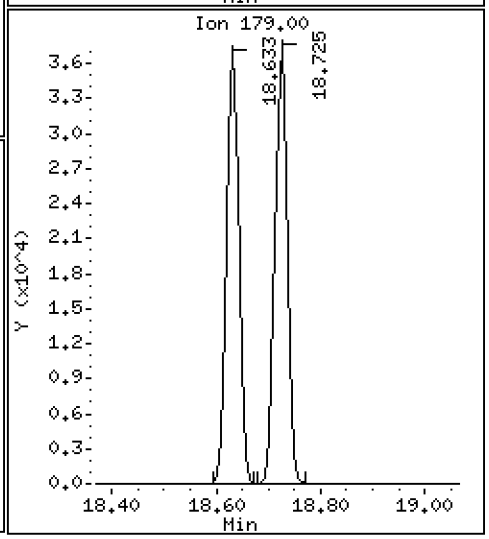












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

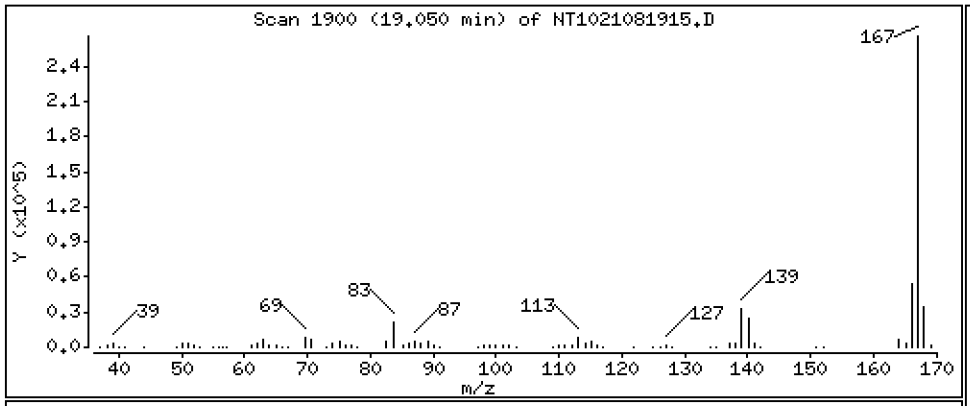
Operator: VTS

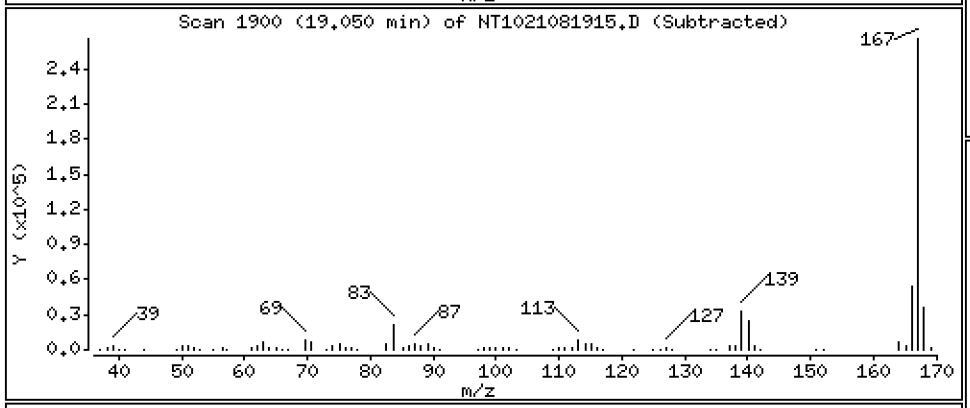
Column phase: ZB-5msi

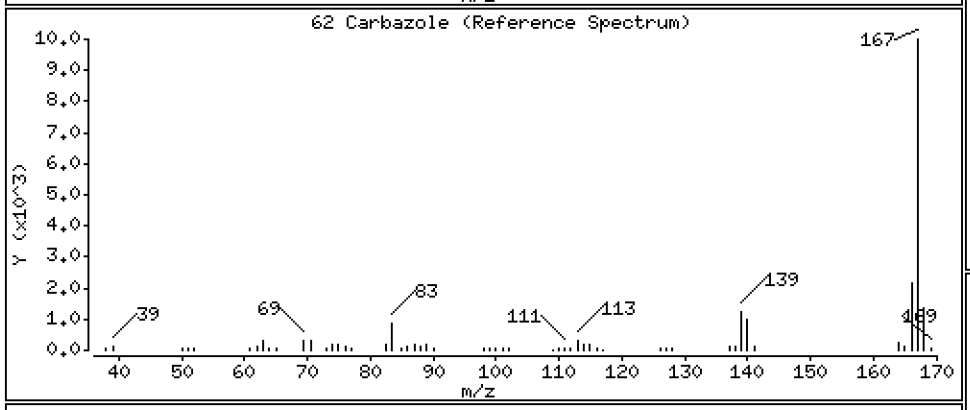
Column diameter: 0.25

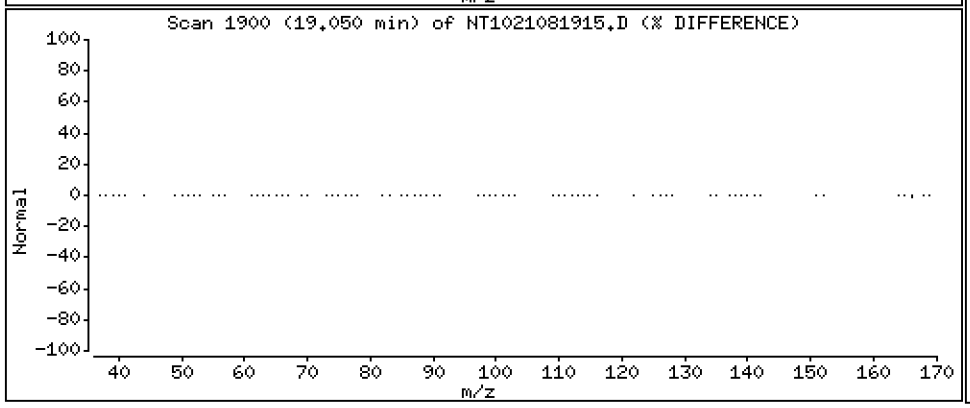
62 Carbazole

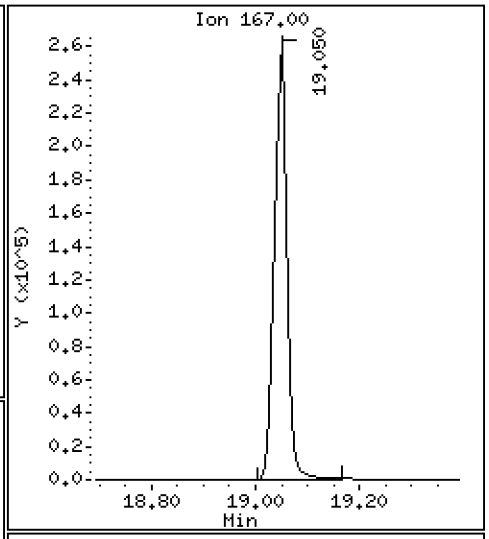
Concentration: 4.972 ug/mL

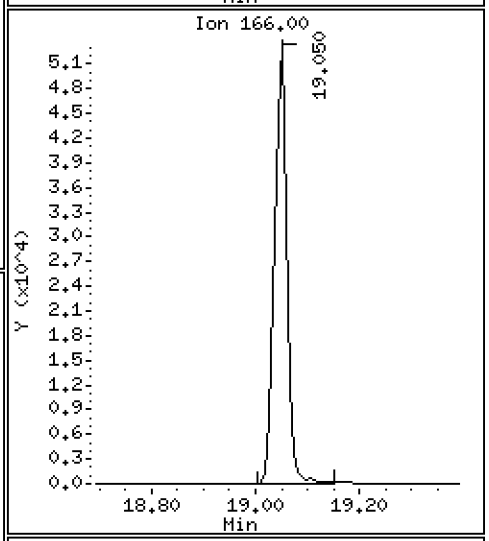


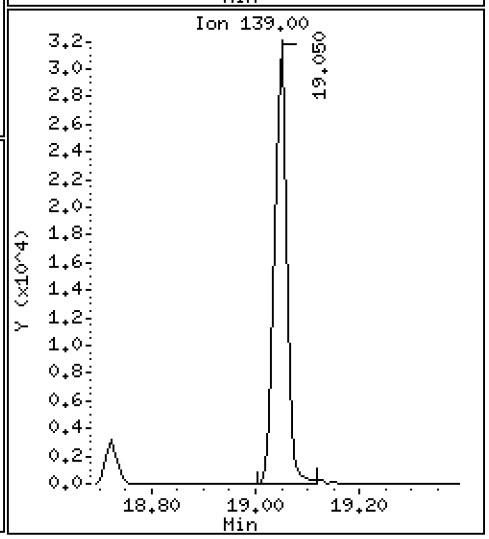












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

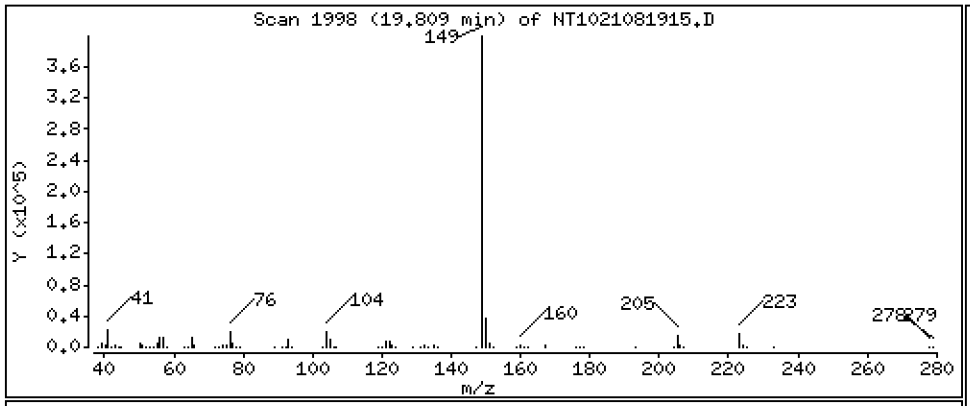
Operator: VTS

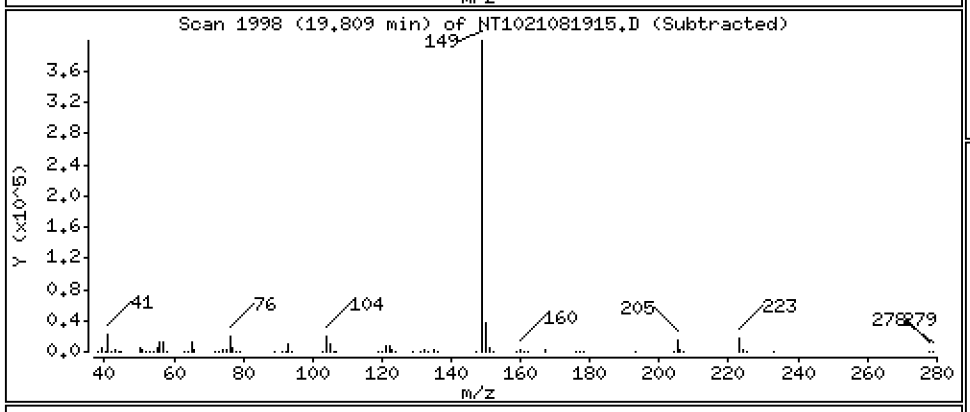
Column phase: ZB-5msi

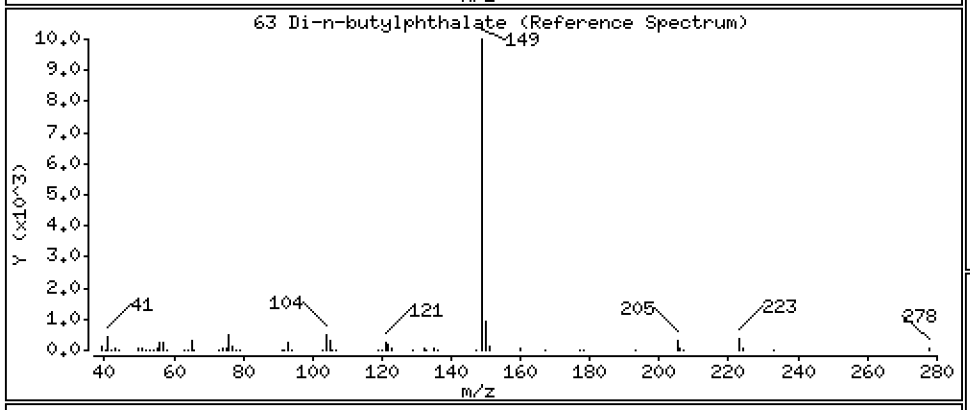
Column diameter: 0.25

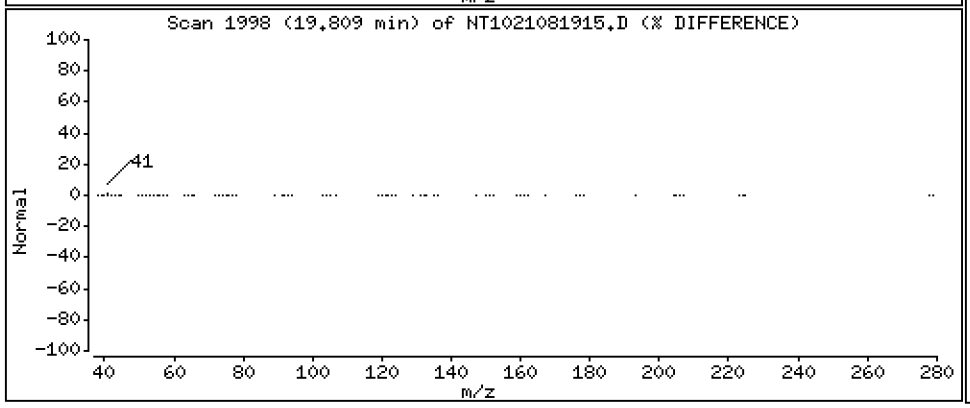
63 Di-n-butylphthalate

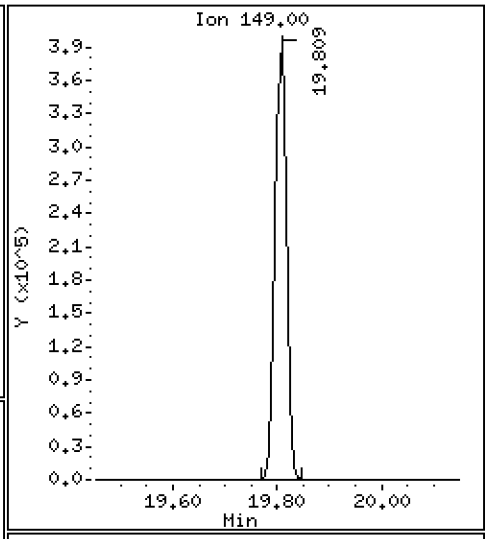
Concentration: 5.375 ug/mL

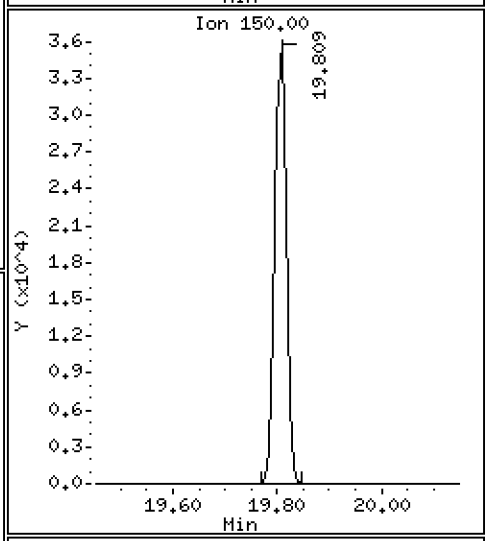


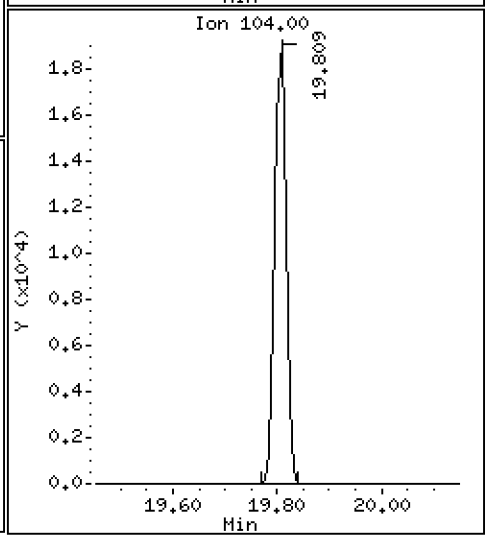












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

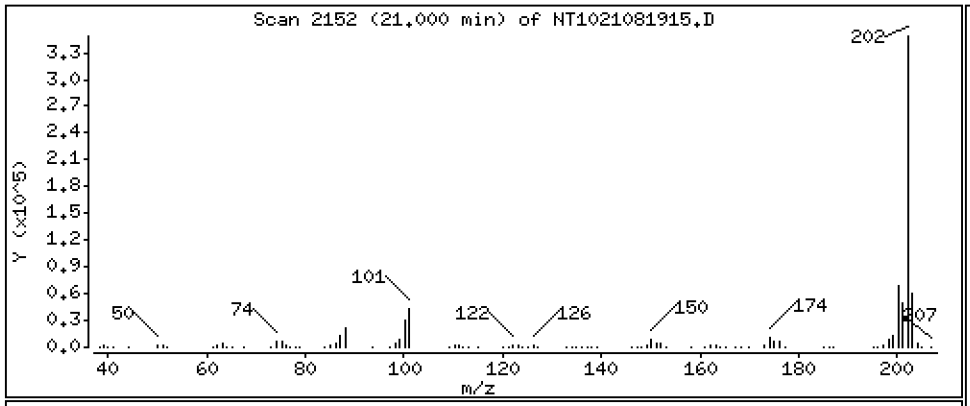
Operator: VTS

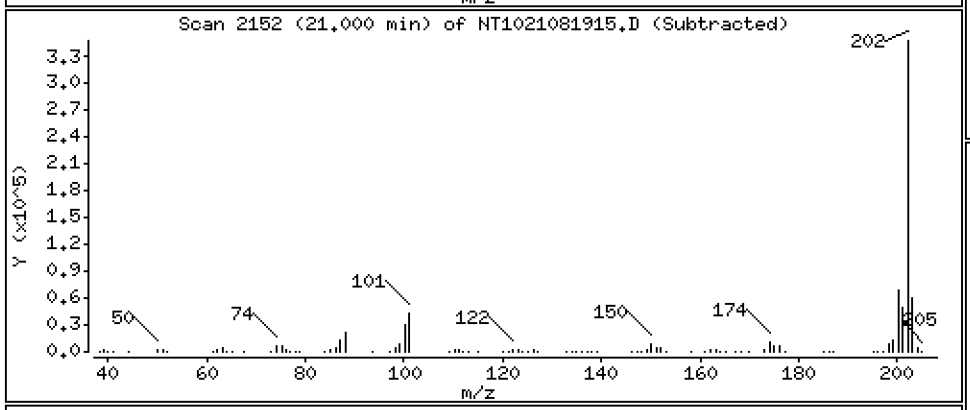
Column phase: ZB-5msi

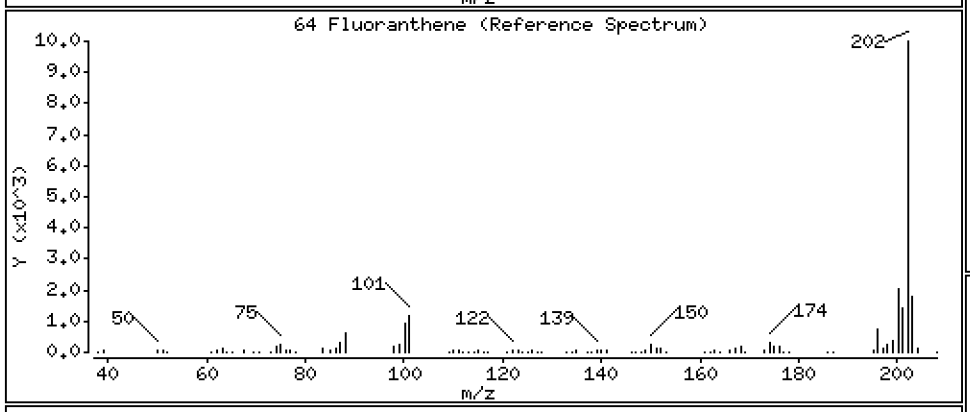
Column diameter: 0.25

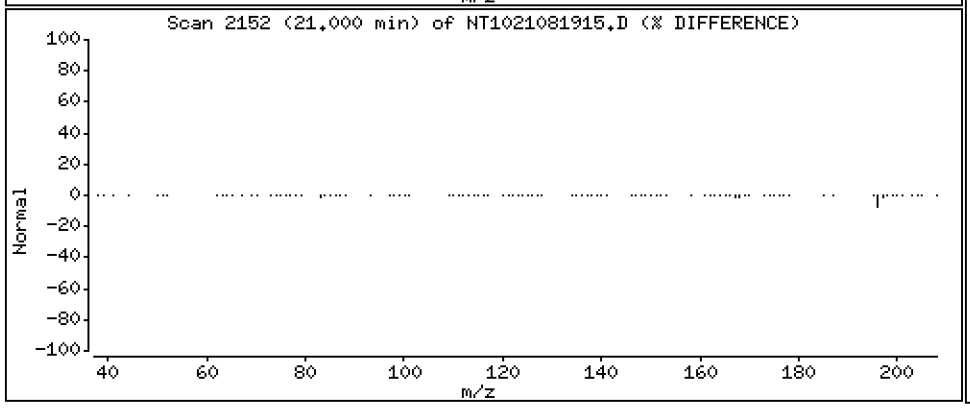
64 Fluoranthene

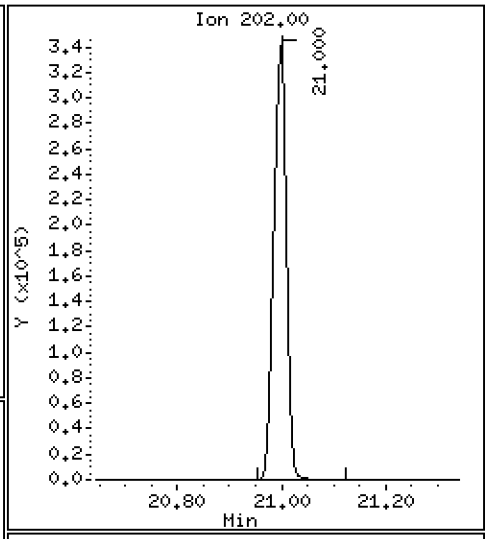
Concentration: 4.853 ug/mL

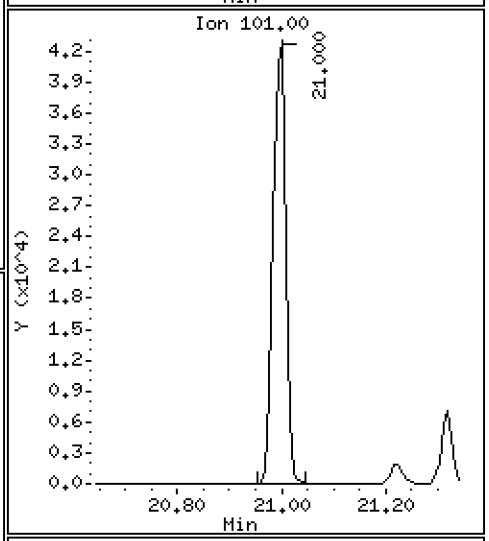


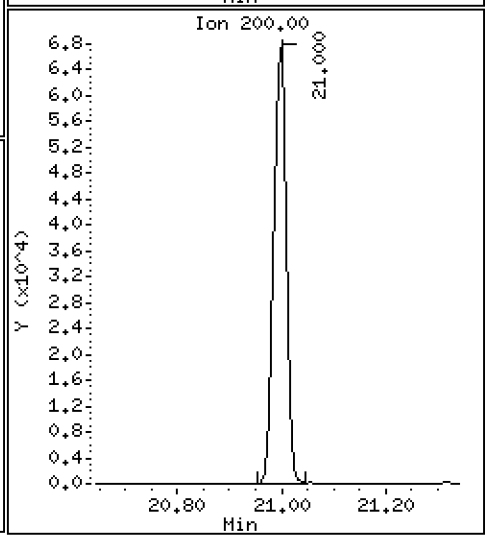












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

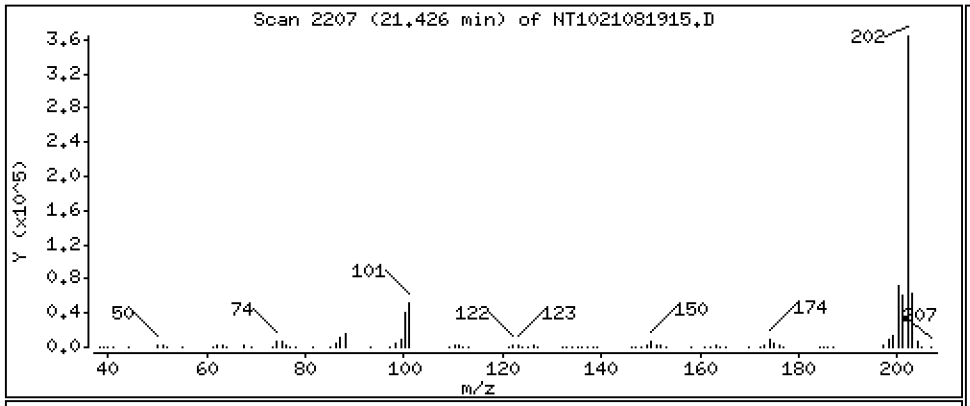
Operator: VTS

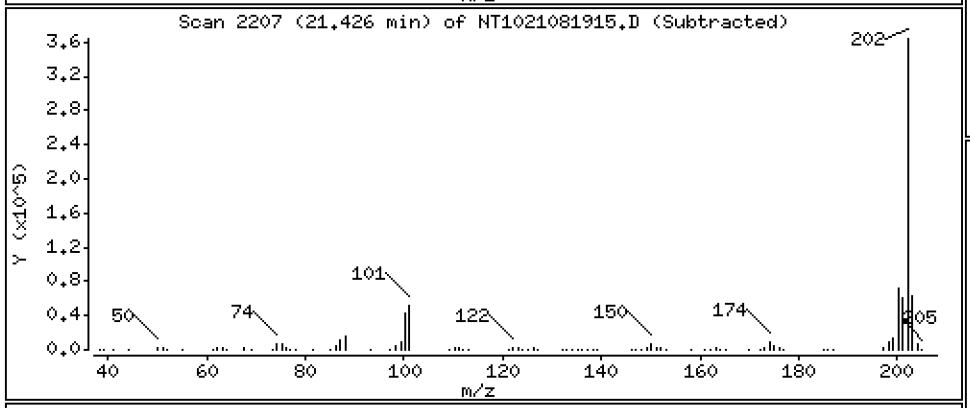
Column phase: ZB-5msi

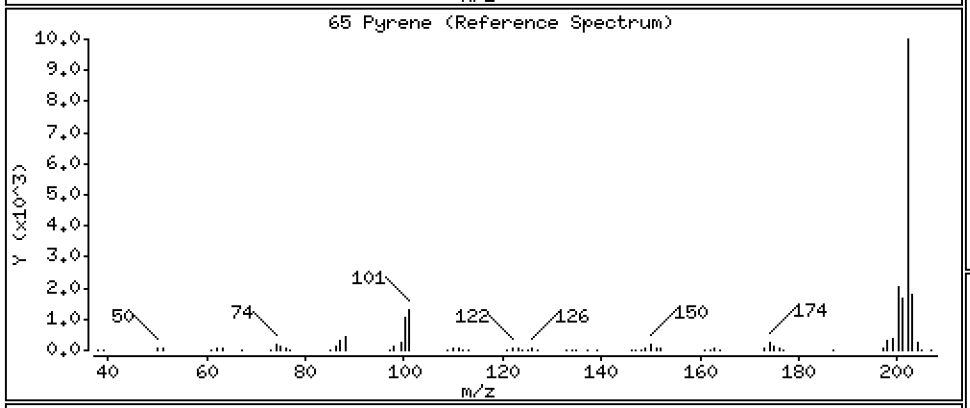
Column diameter: 0.25

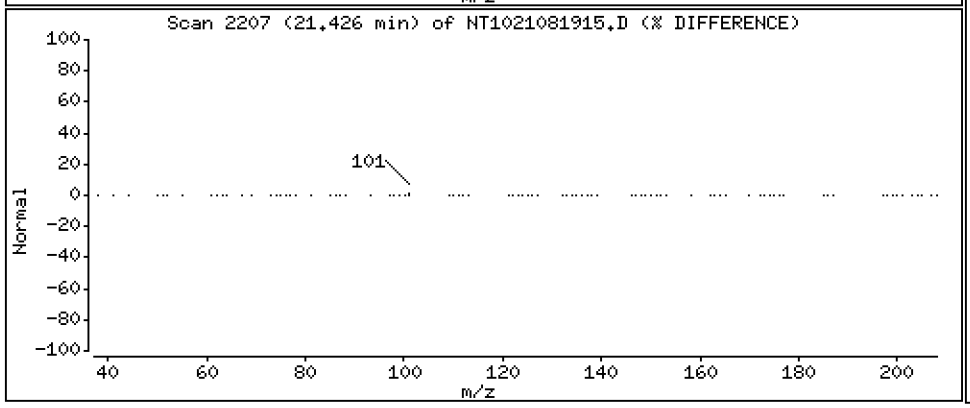
65 Pyrene

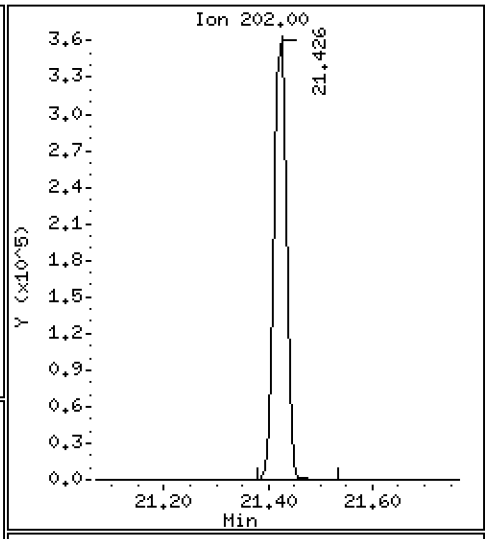
Concentration: 4.862 ug/mL

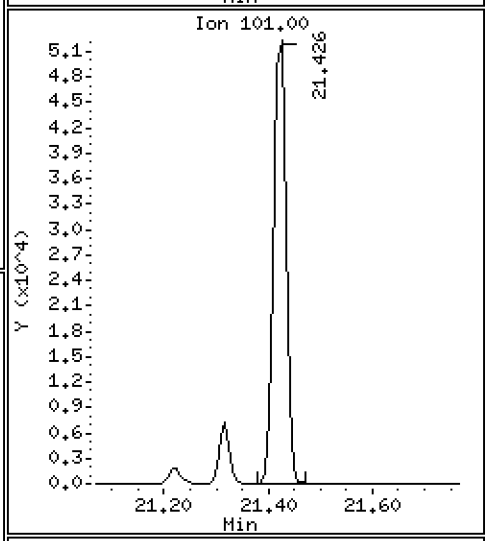


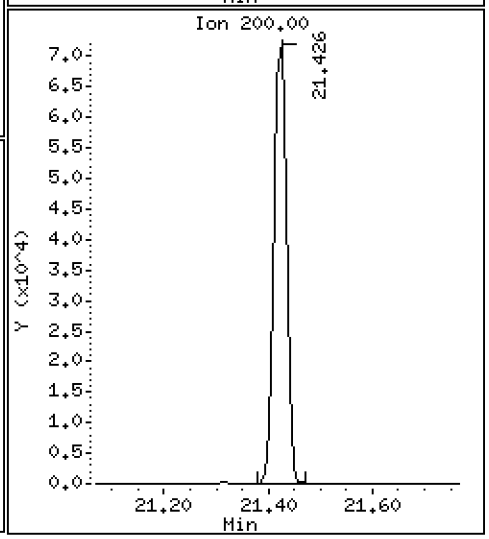












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

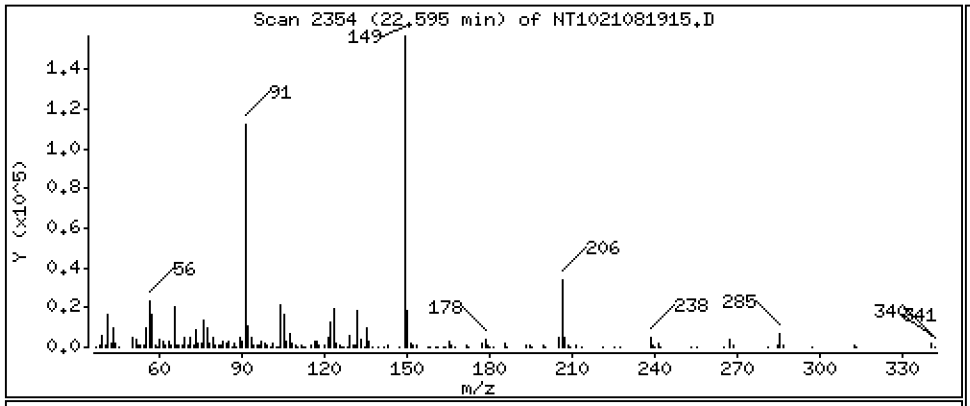
Operator: VTS

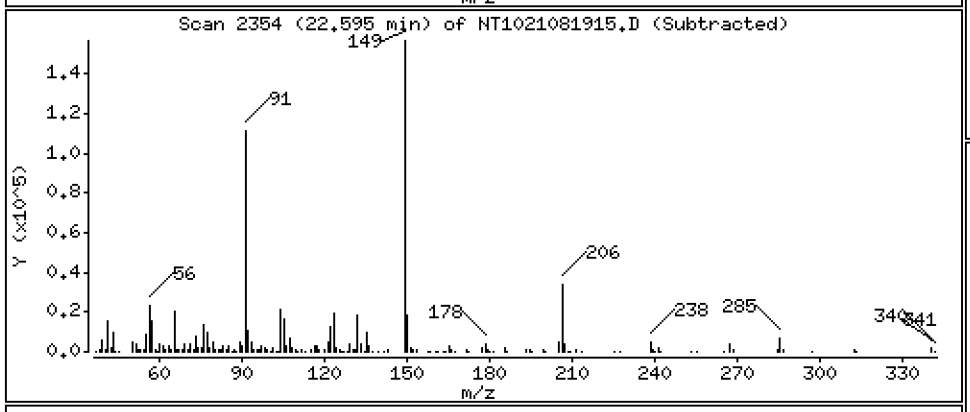
Column phase: ZB-5msi

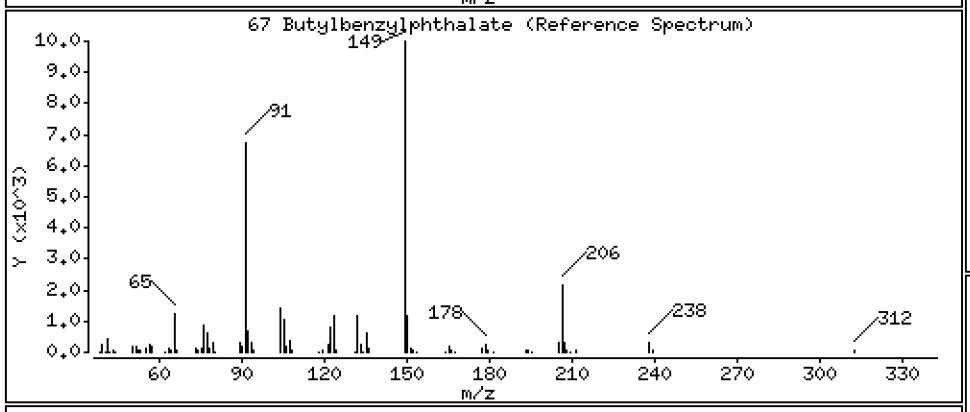
Column diameter: 0.25

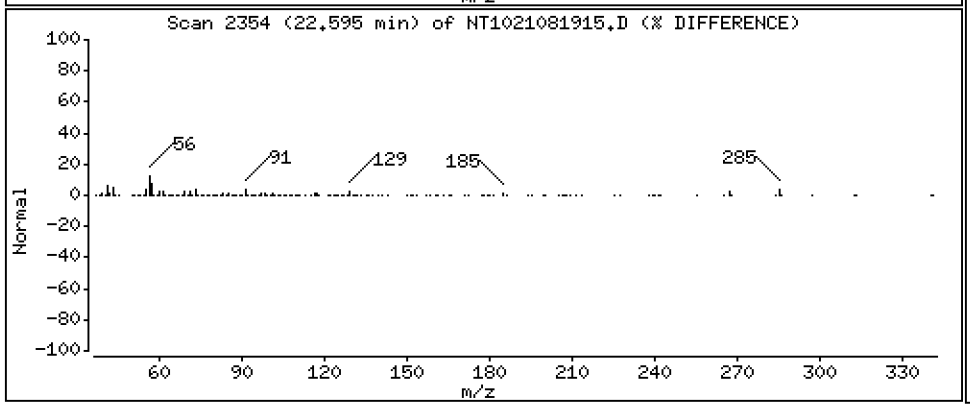
67 Butylbenzylphthalate

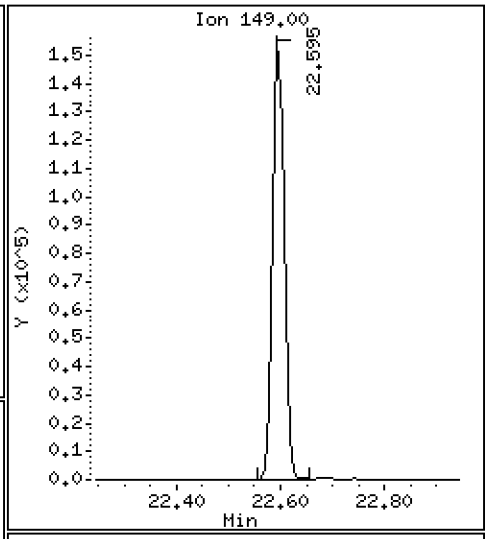
Concentration: 4.889 ug/mL

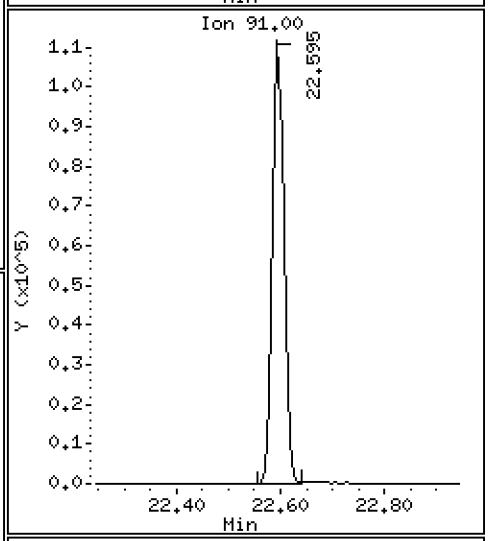


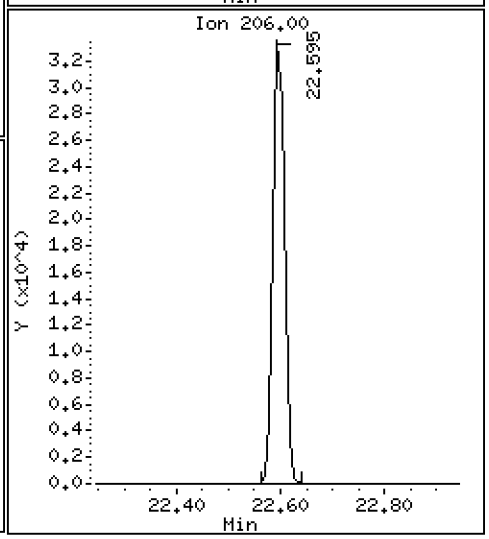












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

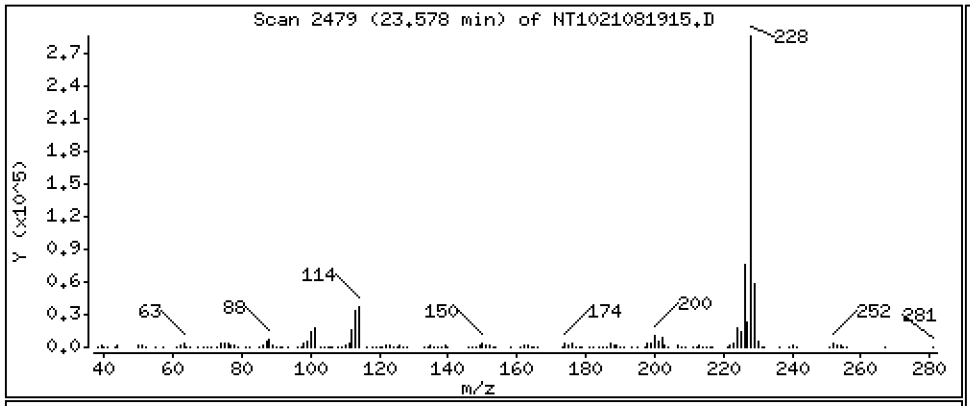
Operator: VTS

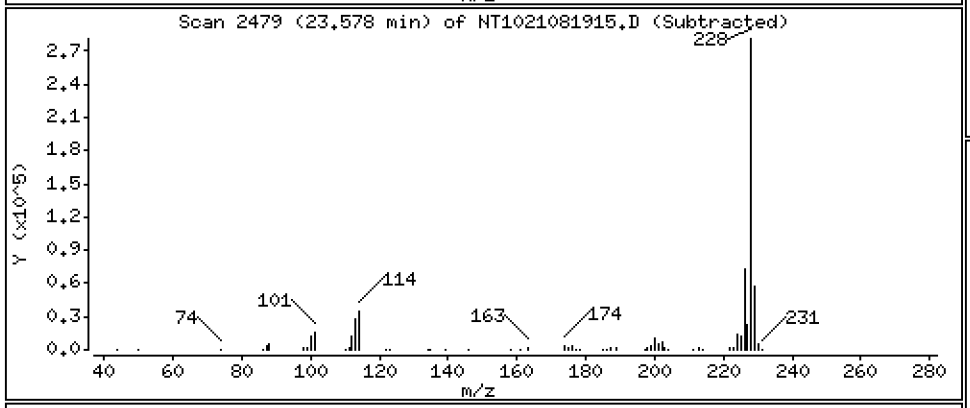
Column phase: ZB-5msi

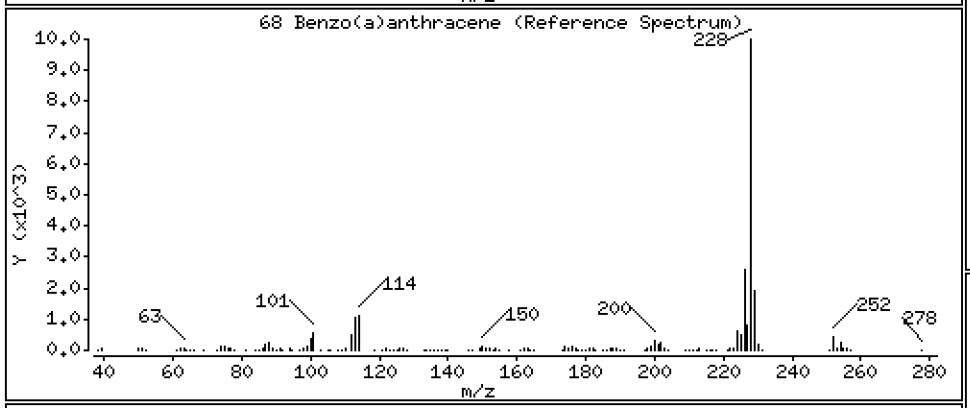
Column diameter: 0.25

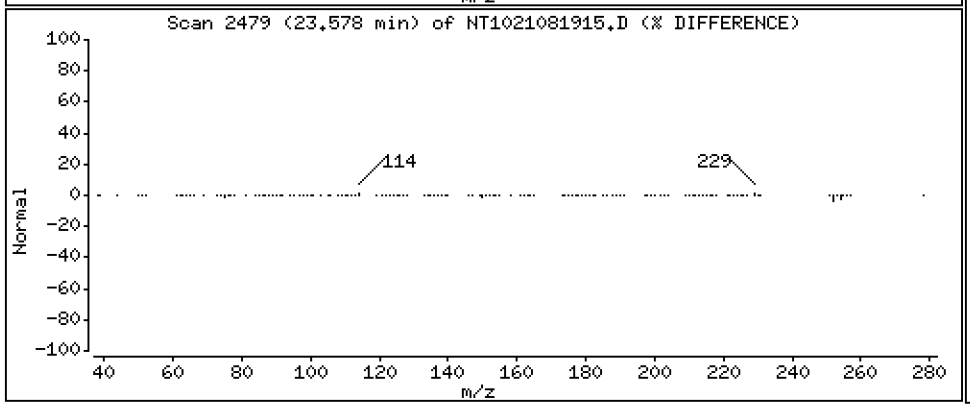
68 Benzo(a)anthracene

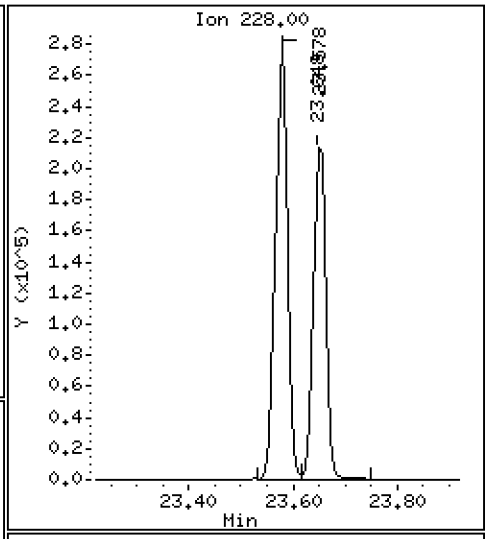
Concentration: 4.800 ug/mL

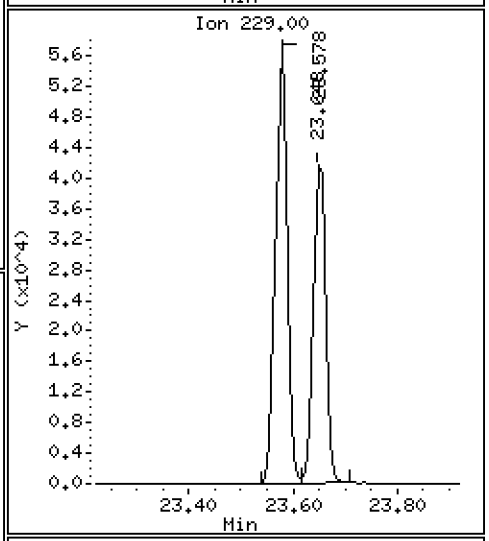


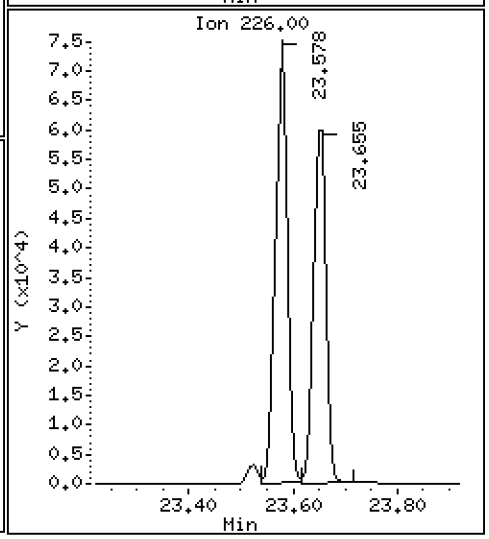












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

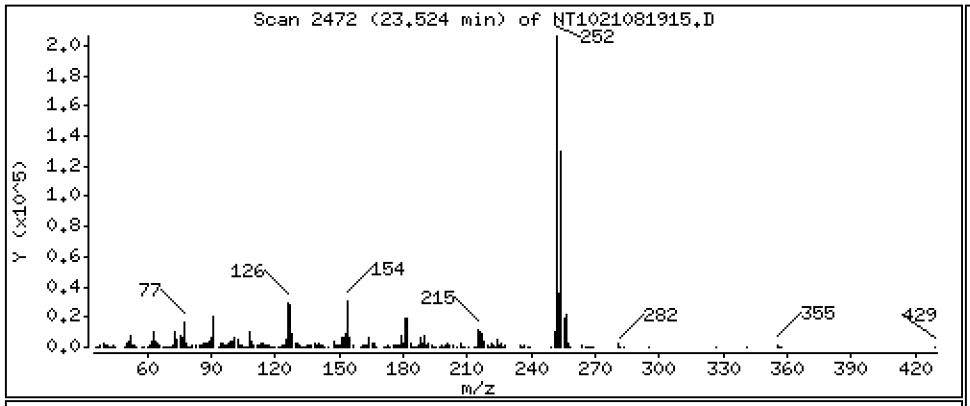
Operator: VTS

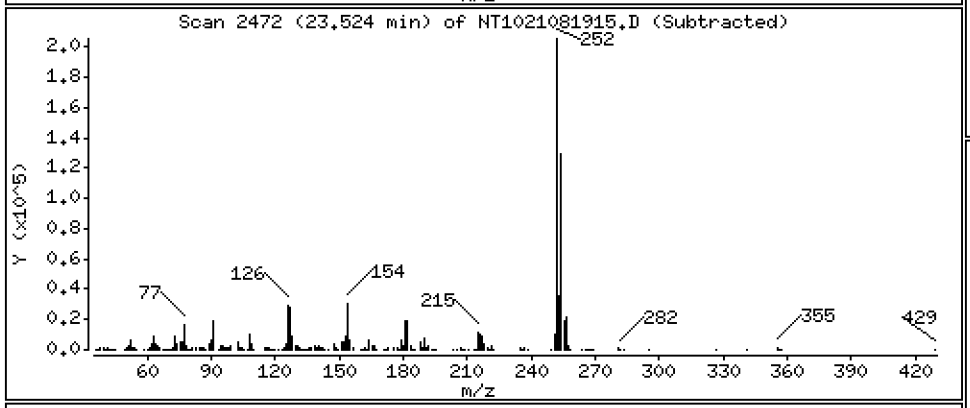
Column phase: ZB-5msi

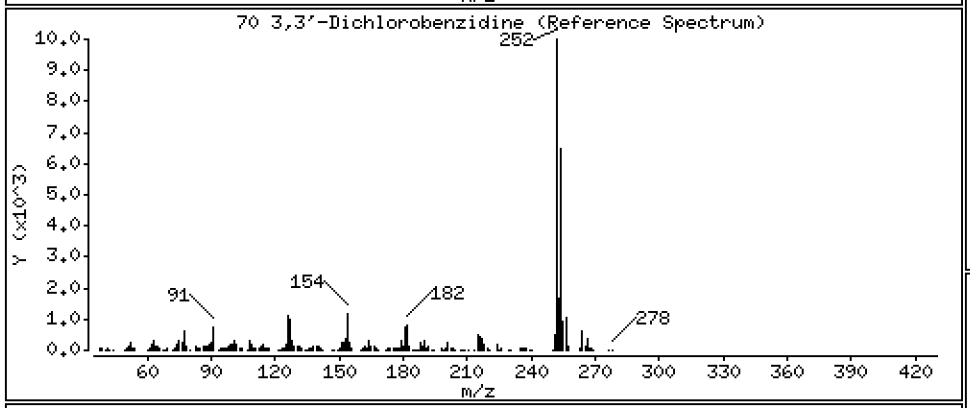
Column diameter: 0.25

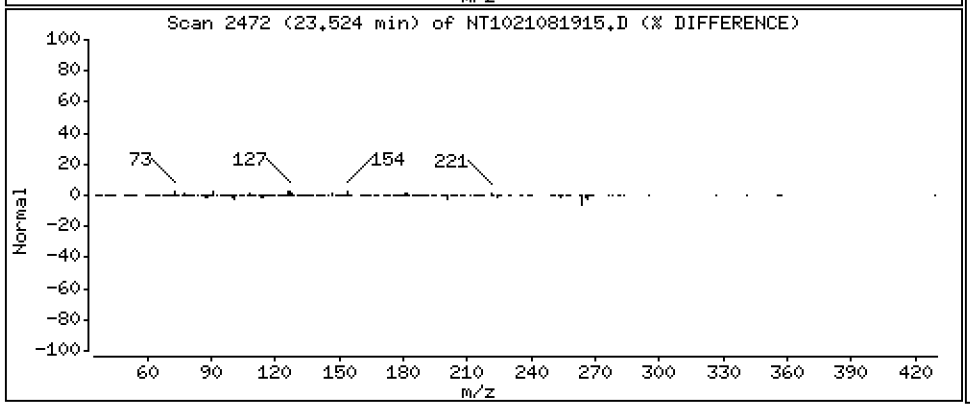
70 3,3'-Dichlorobenzidine

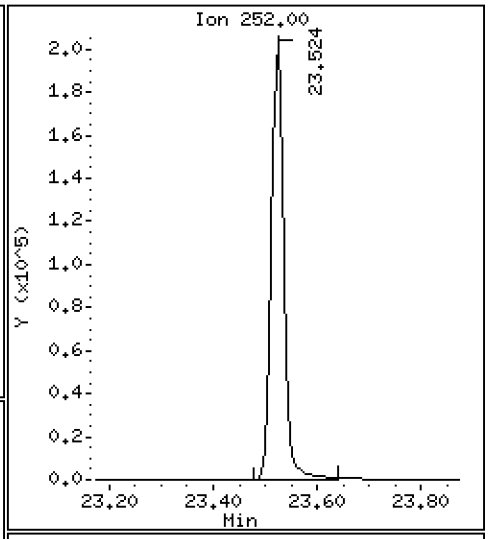
Concentration: 8.830 ug/mL

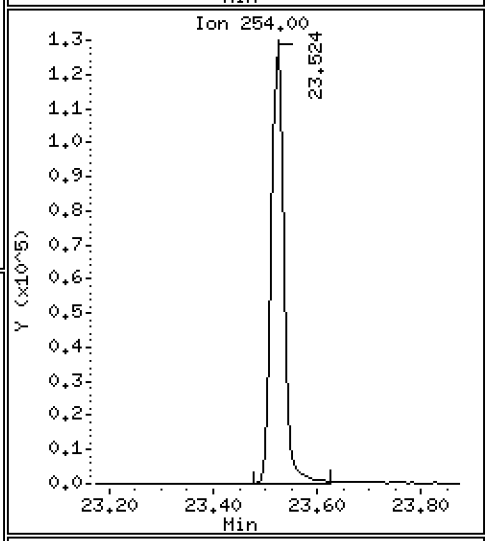


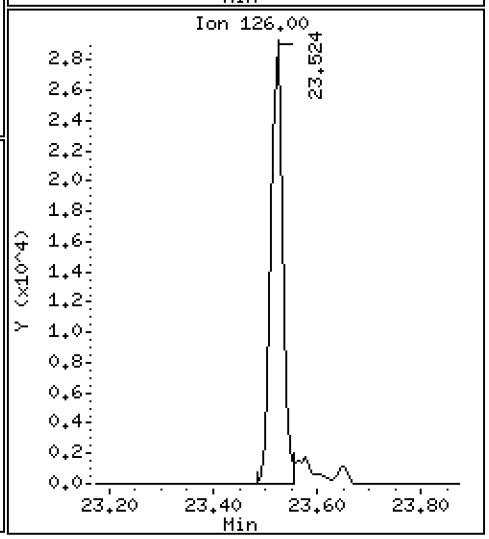












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

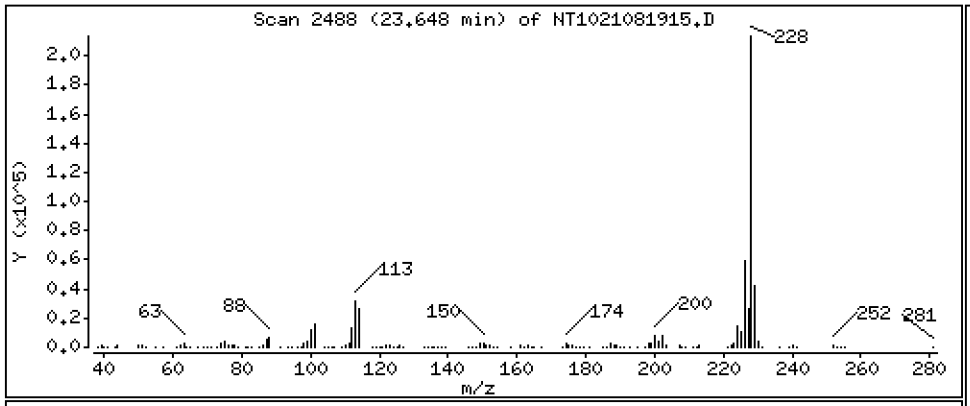
Operator: VTS

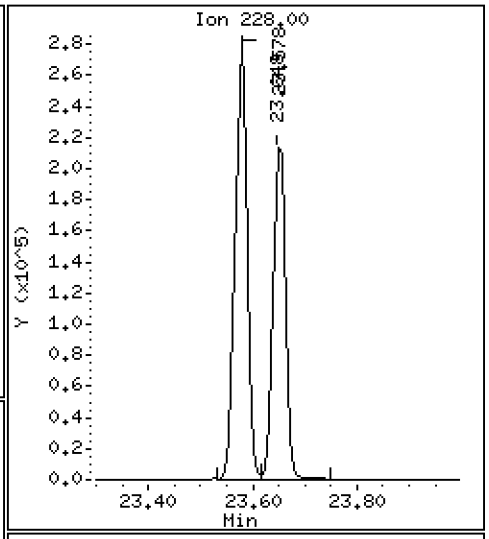
Column phase: ZB-5msi

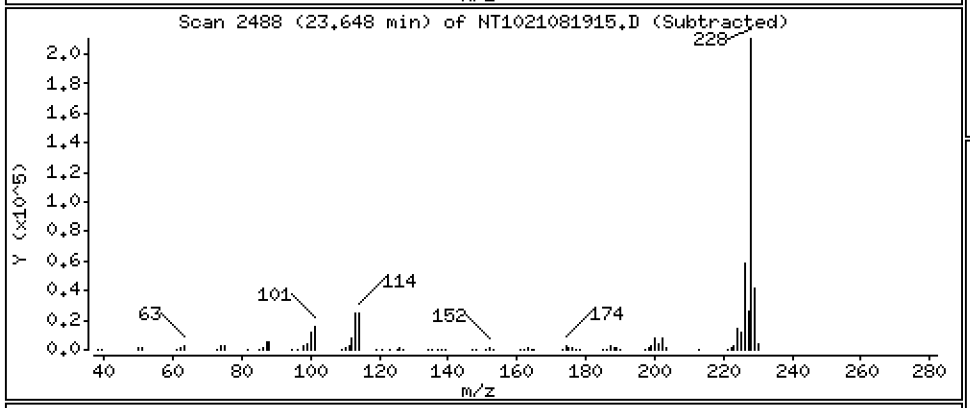
Column diameter: 0.25

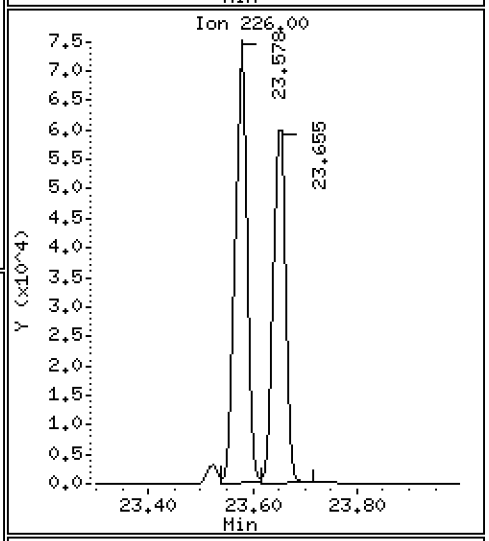
71 Chrysene

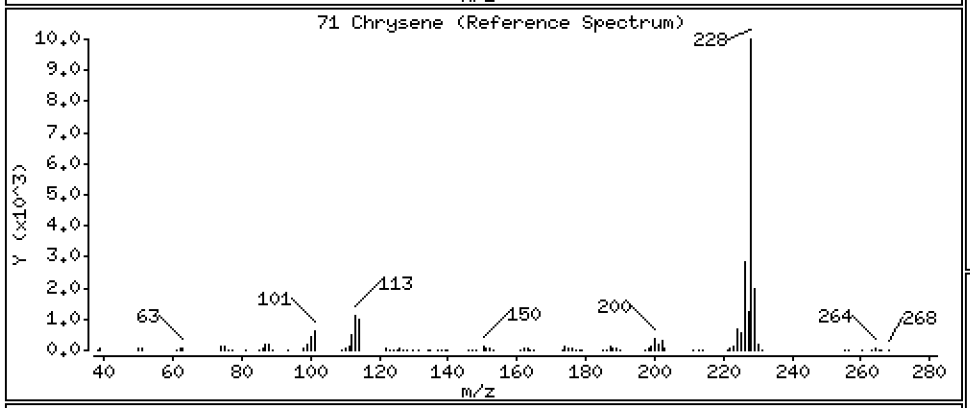
Concentration: 4.687 ug/mL

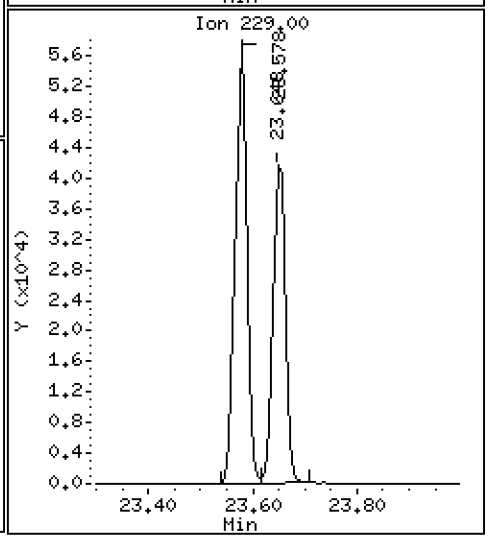


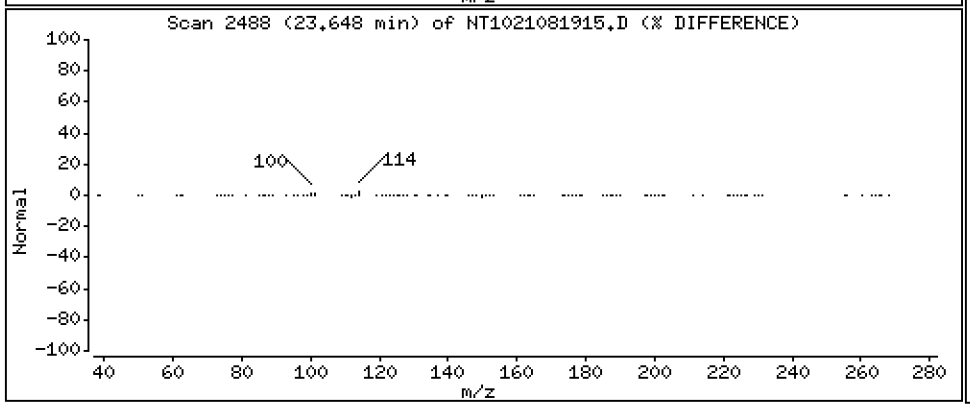












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

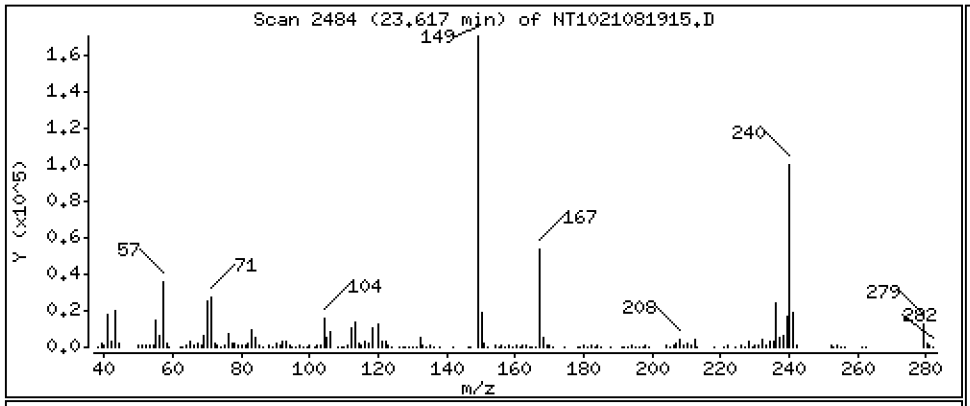
Operator: VTS

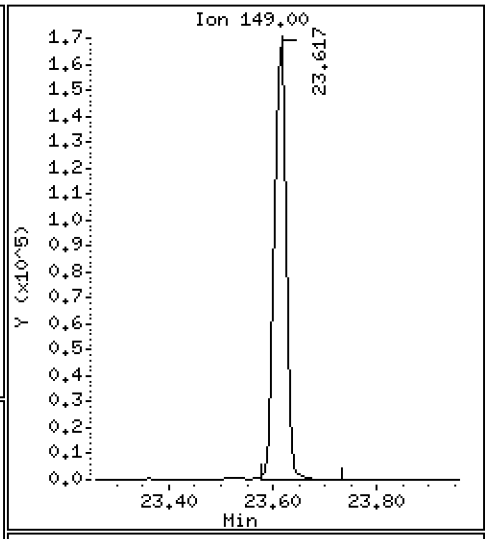
Column phase: ZB-5msi

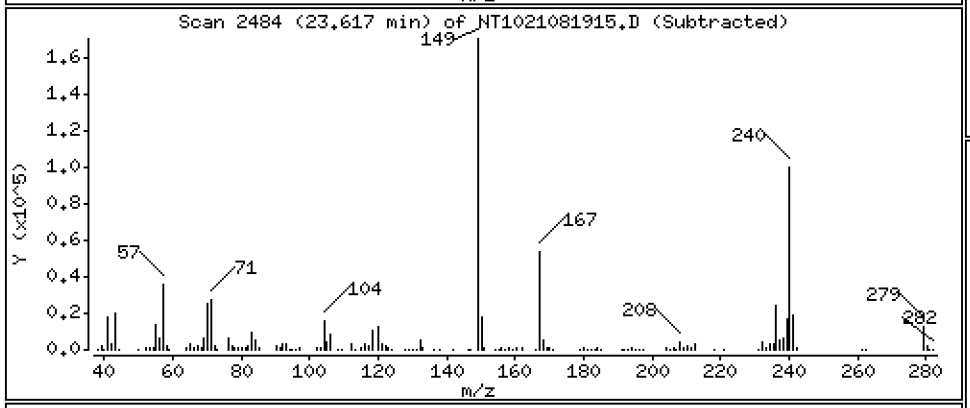
Column diameter: 0.25

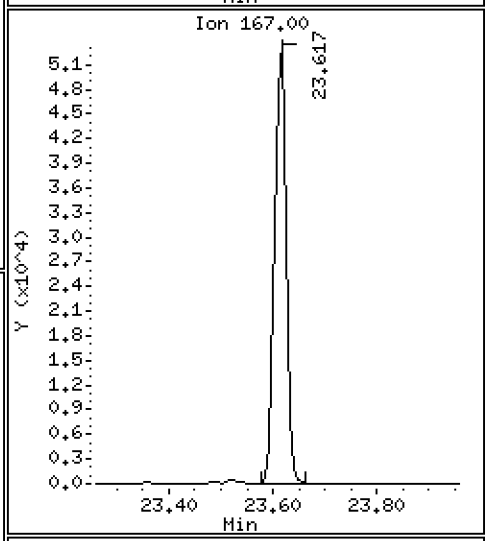
72 bis(2-Ethylhexyl)phthalate

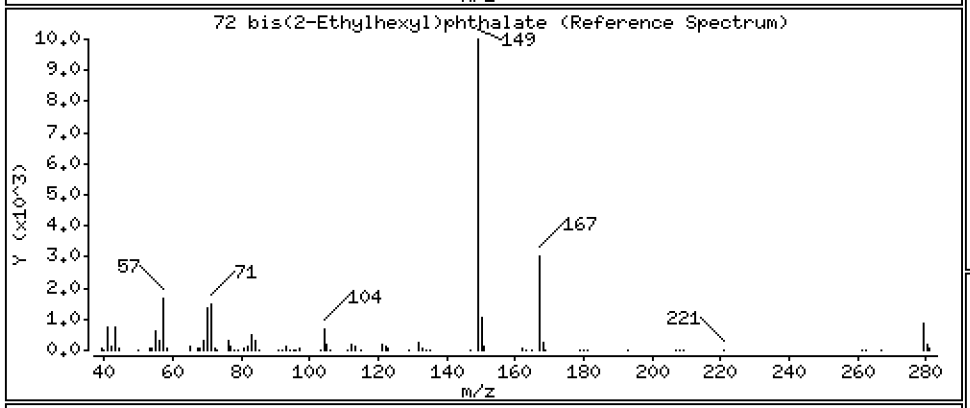
Concentration: 5.362 ug/mL

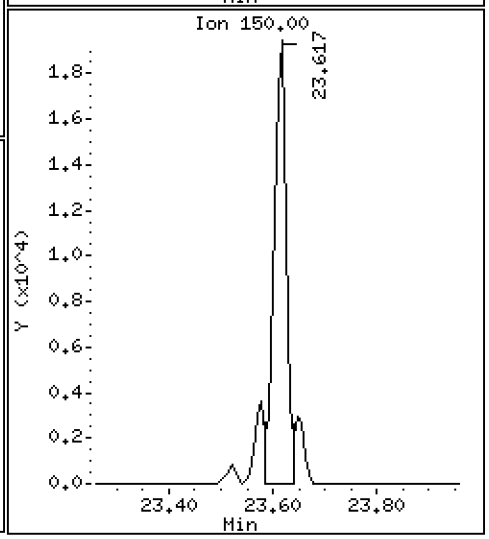


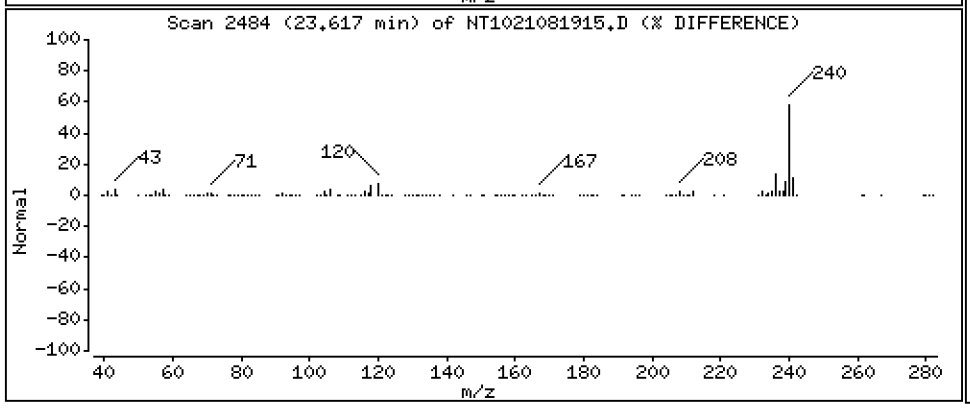












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

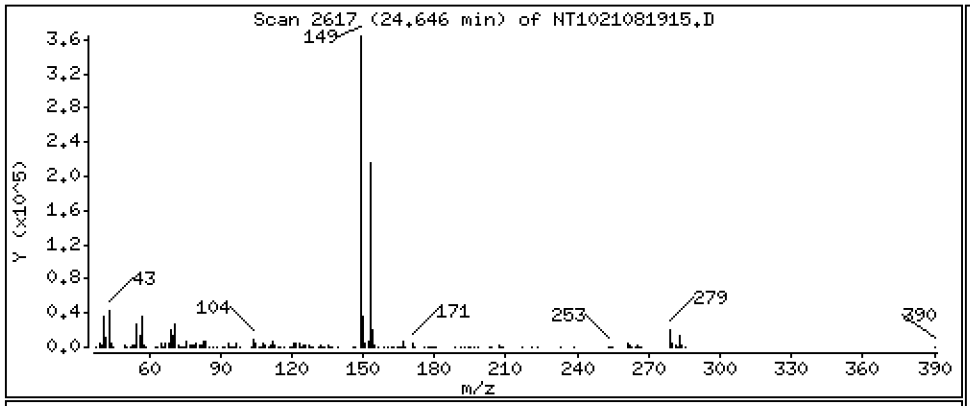
Operator: VTS

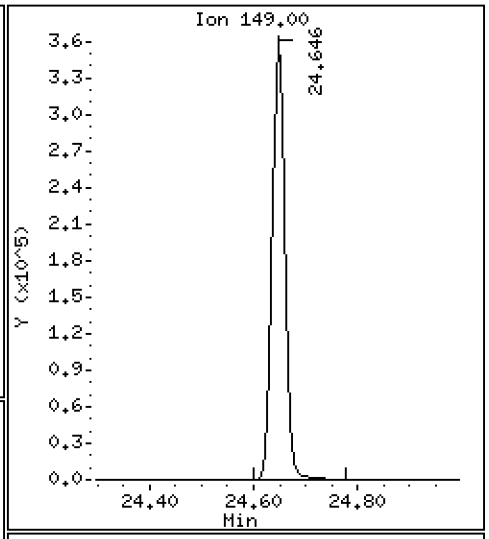
Column phase: ZB-5msi

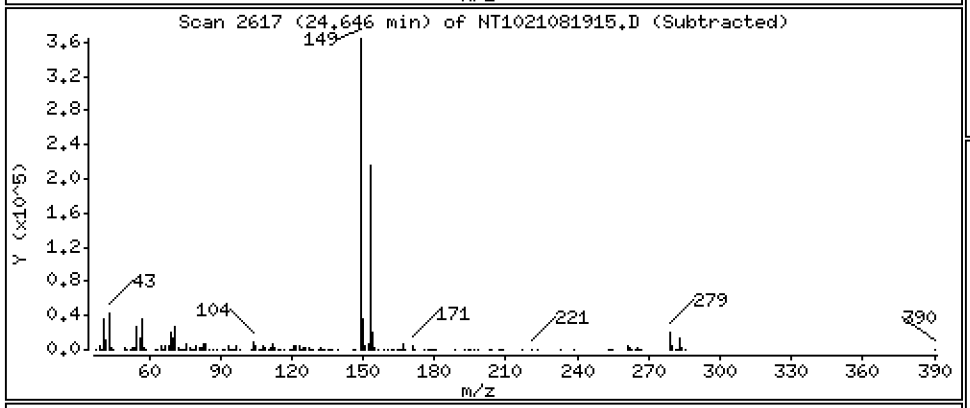
Column diameter: 0.25

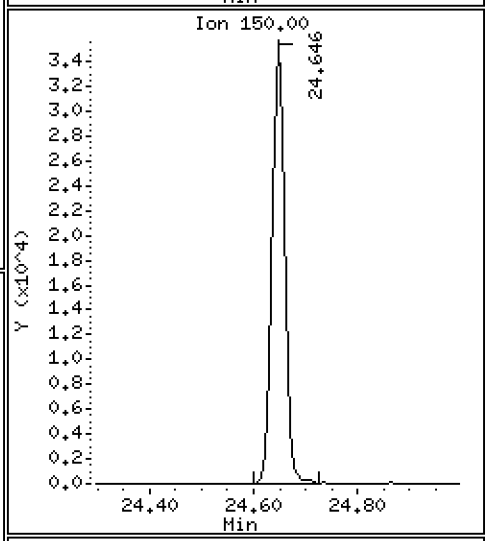
73 Di-n-octylphthalate

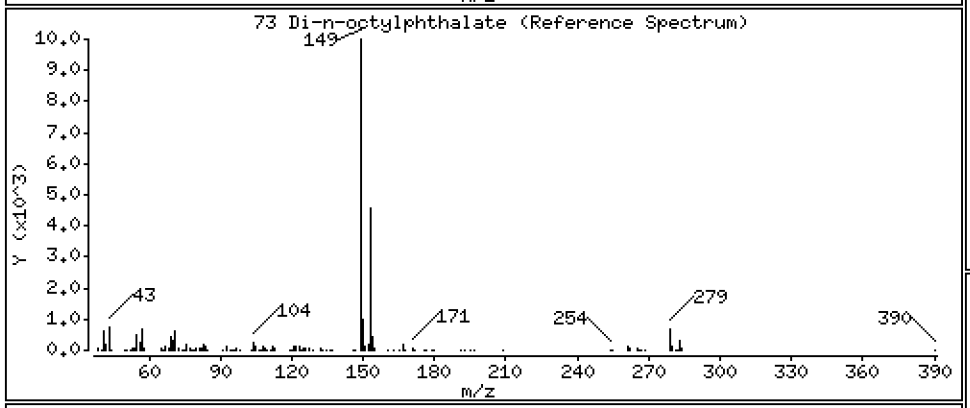
Concentration: 5.228 ug/mL

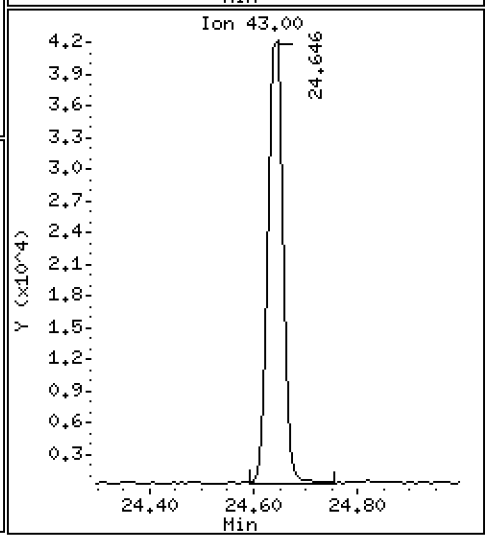


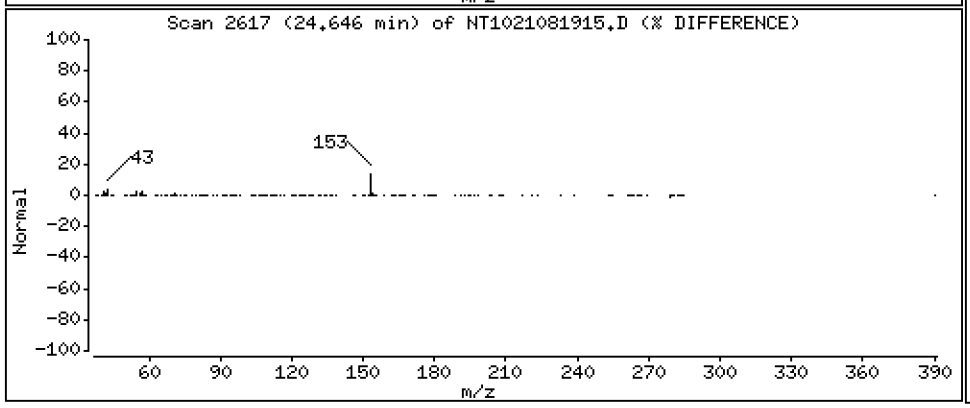












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

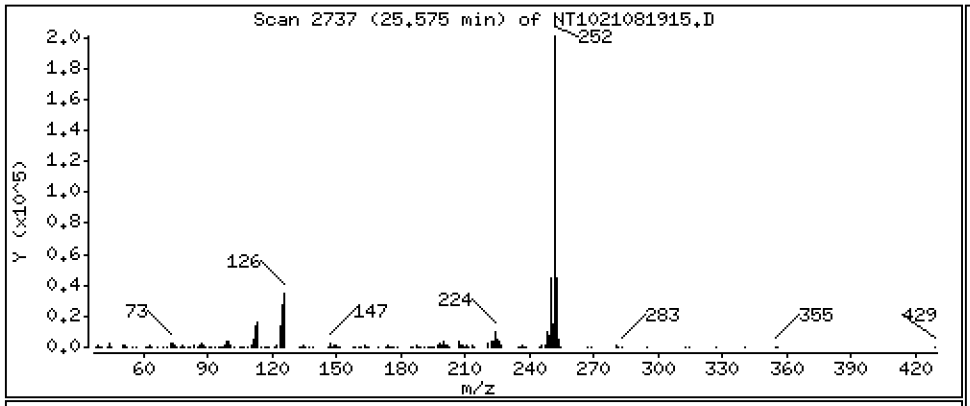
Operator: VTS

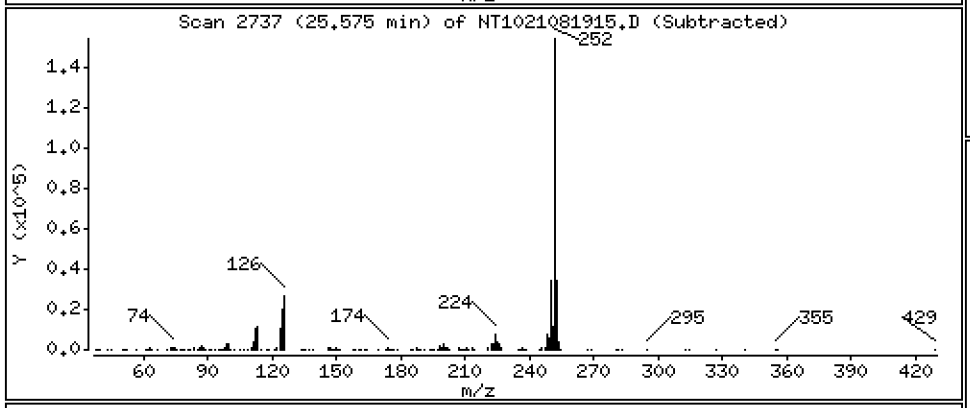
Column phase: ZB-5msi

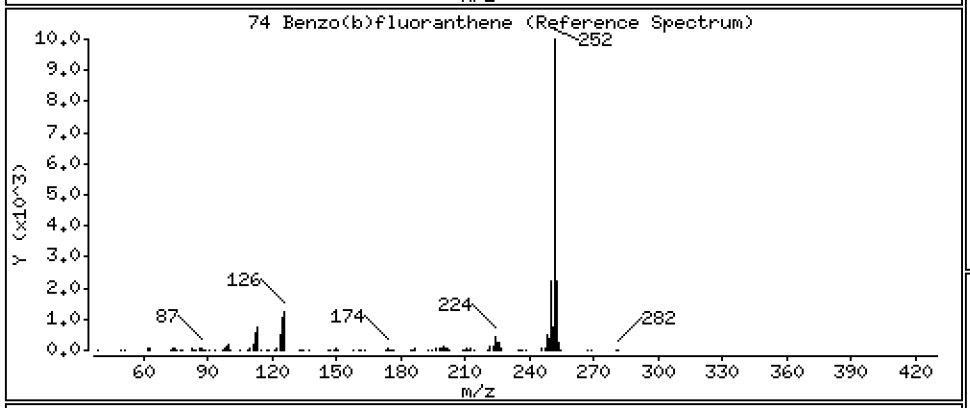
Column diameter: 0.25

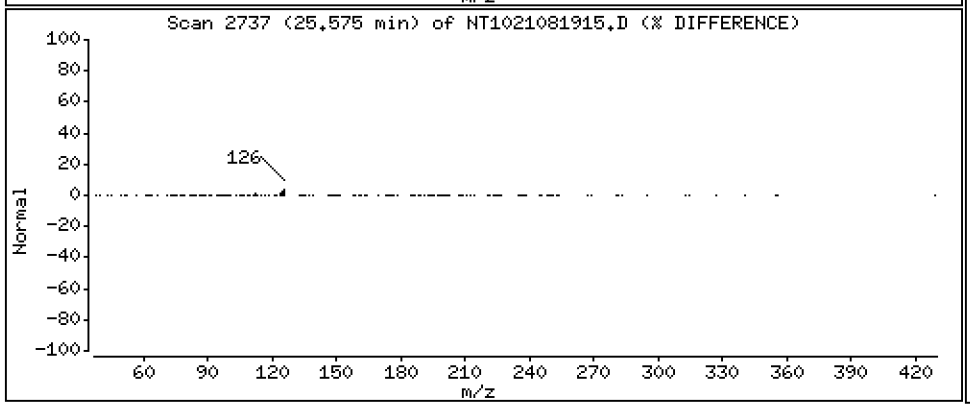
74 Benzo(b)fluoranthene

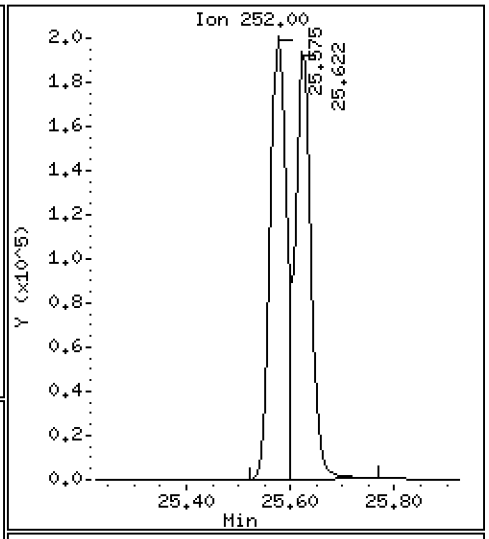
Concentration: 4.877 ug/mL

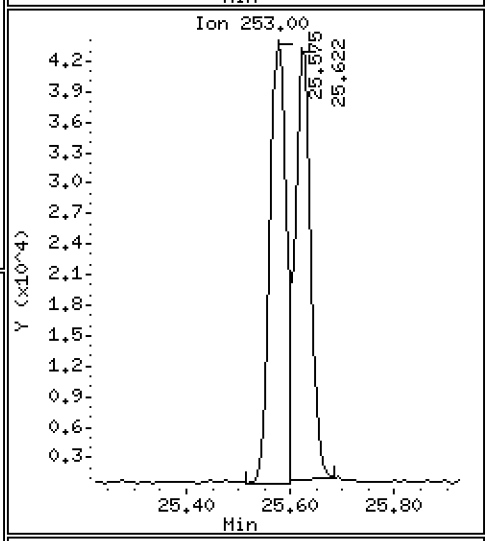


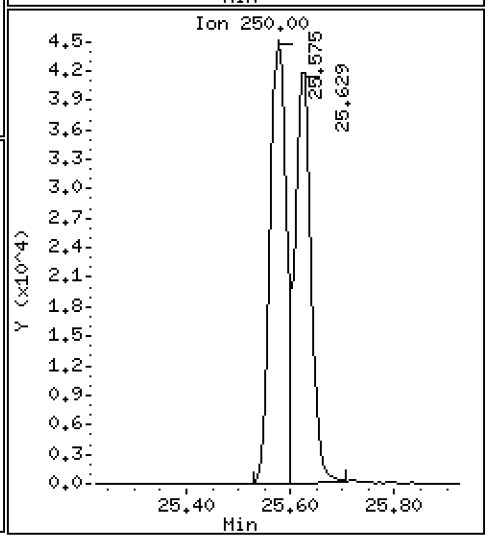












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

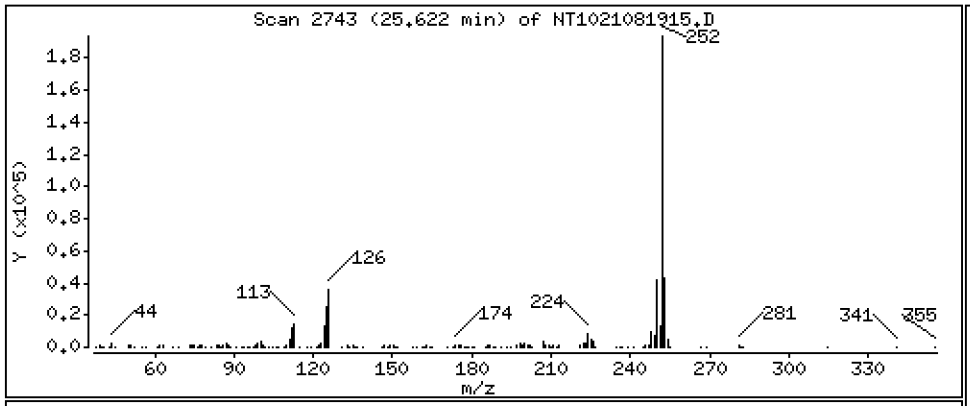
Operator: VTS

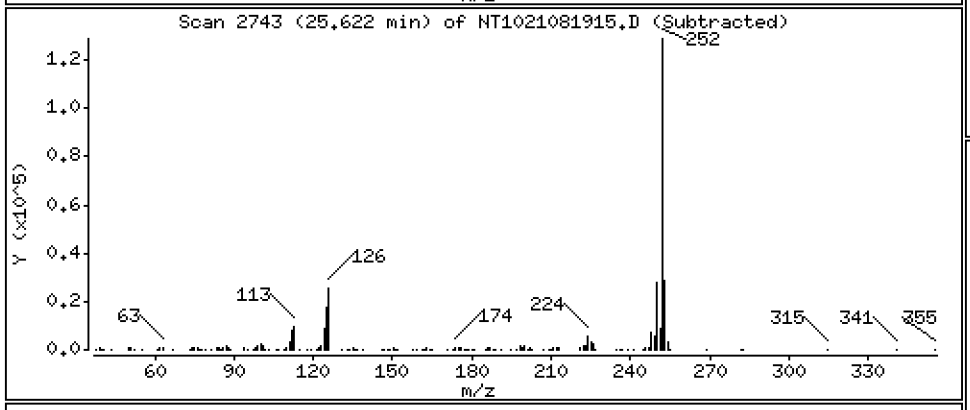
Column phase: ZB-5msi

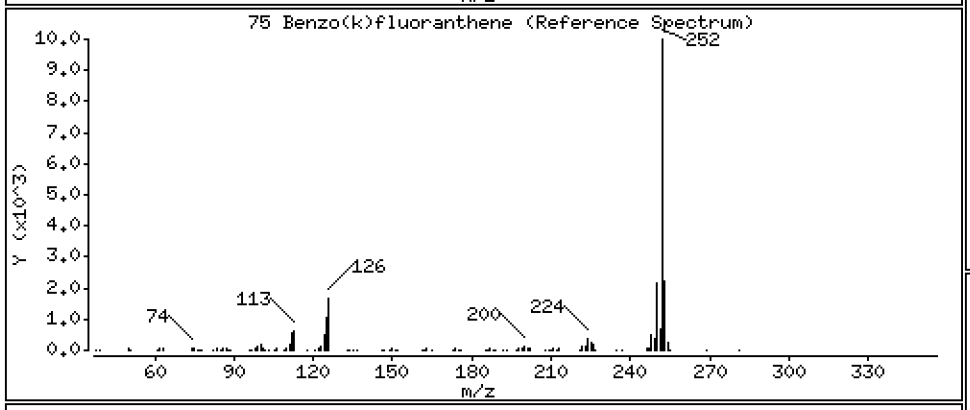
Column diameter: 0.25

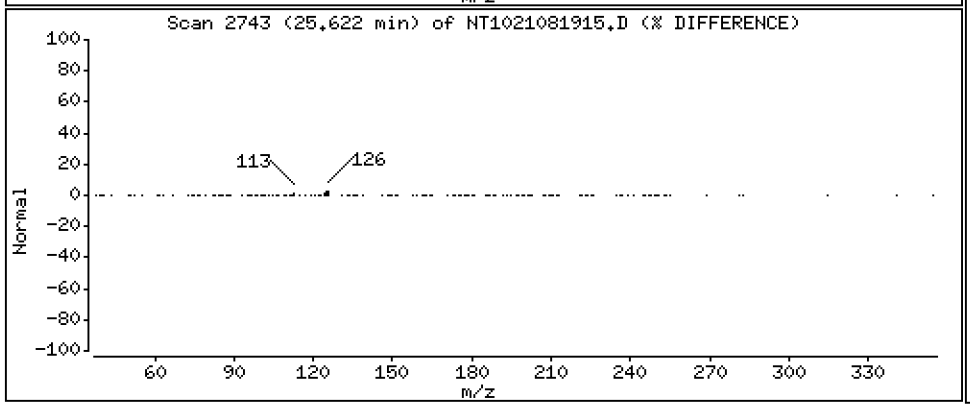
75 Benzo(k)fluoranthene

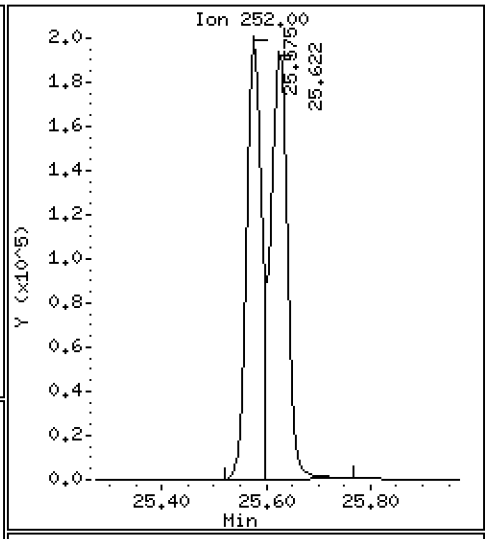
Concentration: 5.195 ug/mL

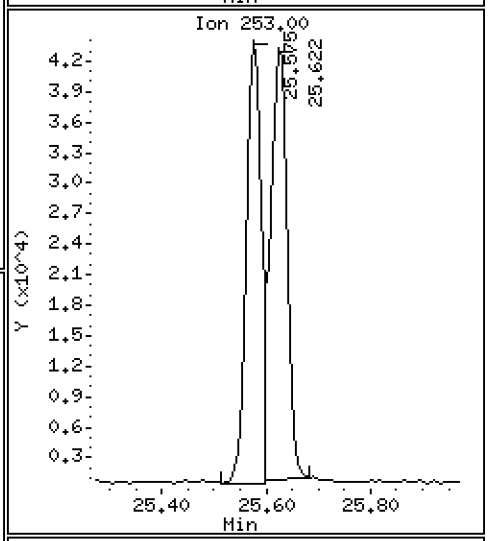


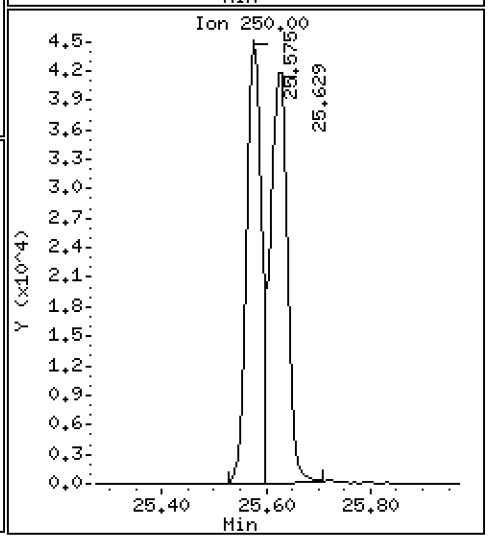












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

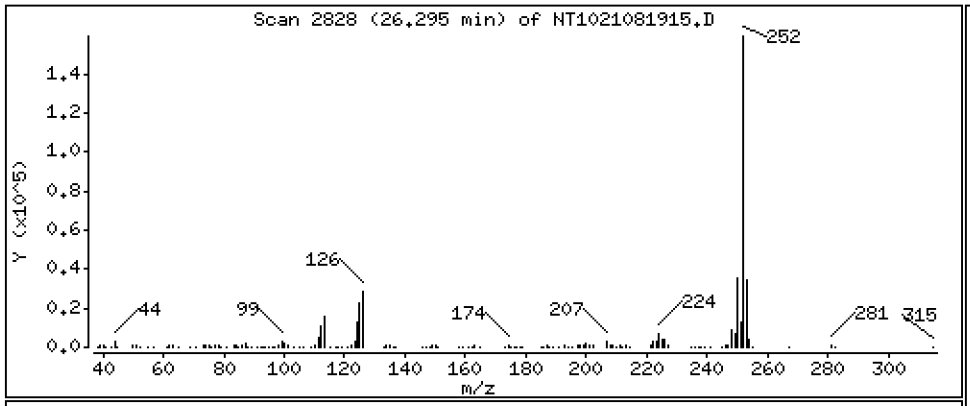
Operator: VTS

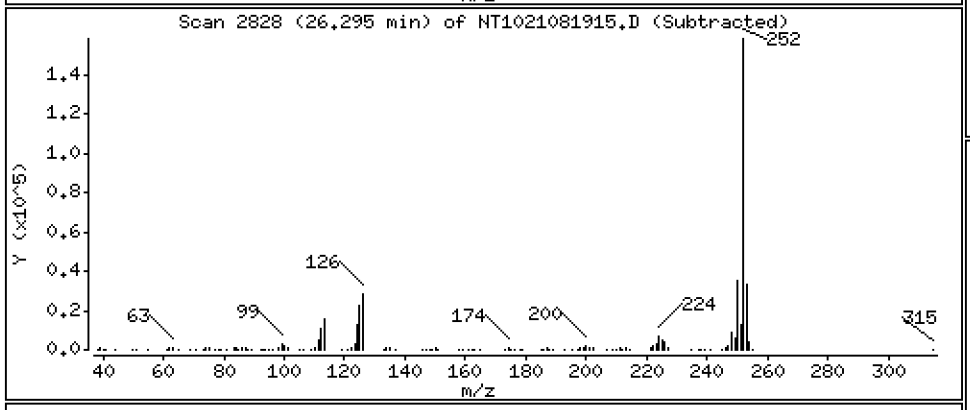
Column phase: ZB-5msi

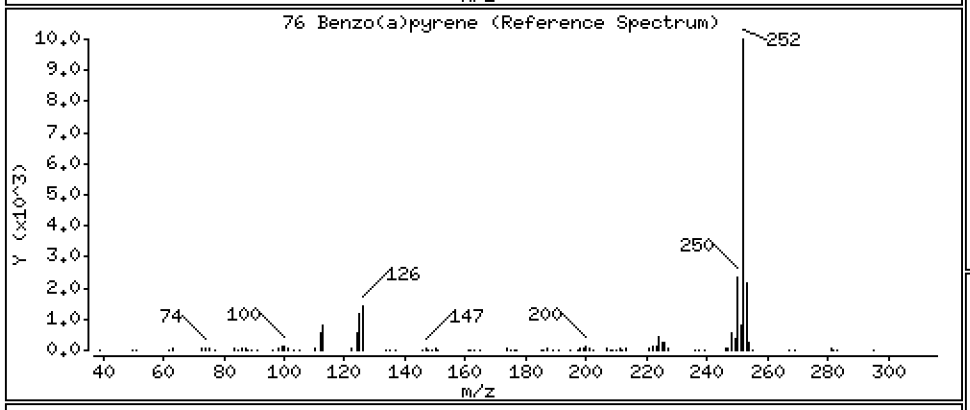
Column diameter: 0.25

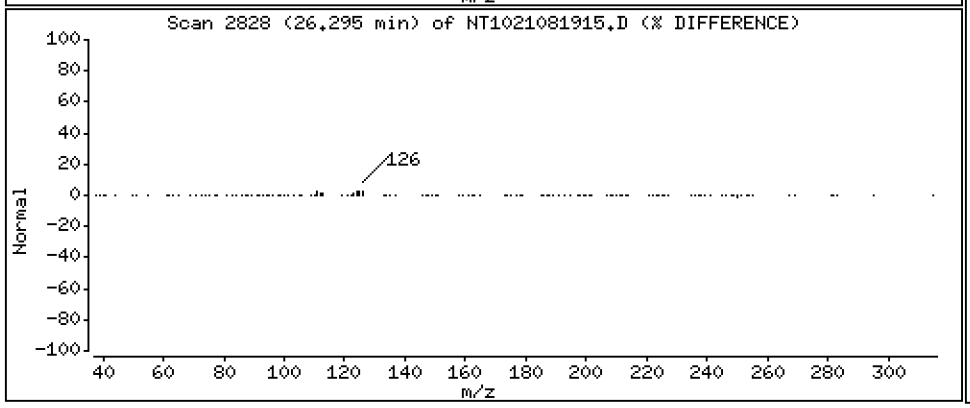
76 Benzo(a)pyrene

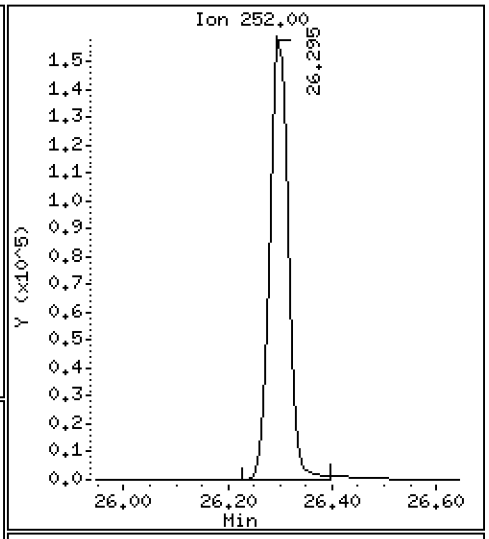
Concentration: 4.980 ug/mL

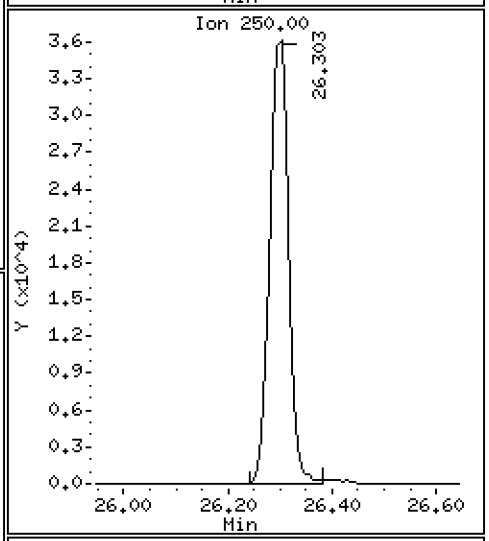


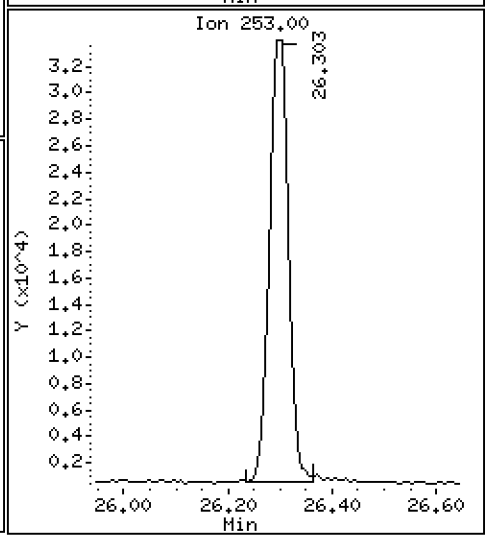












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

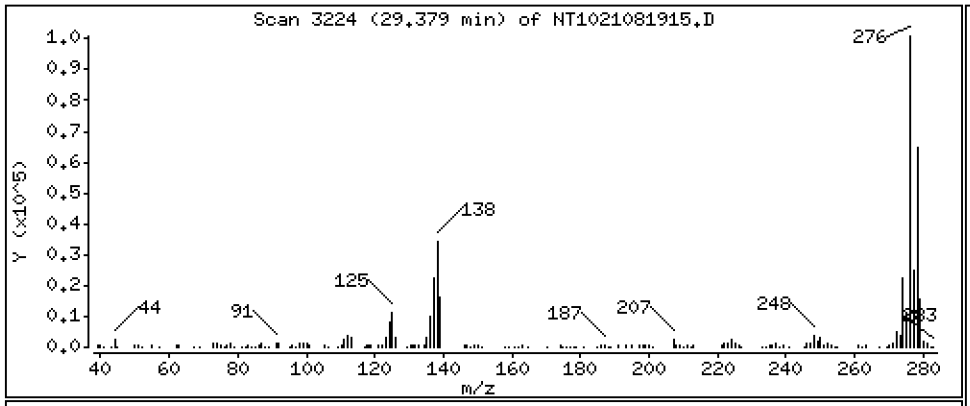
Operator: VTS

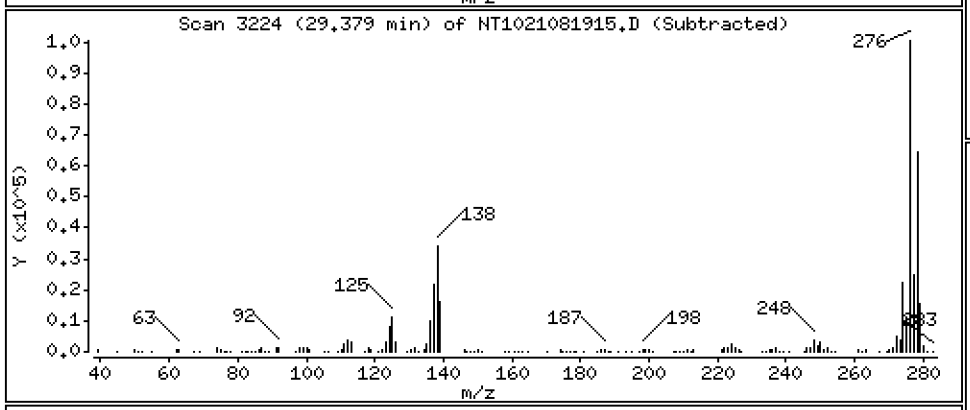
Column phase: ZB-5msi

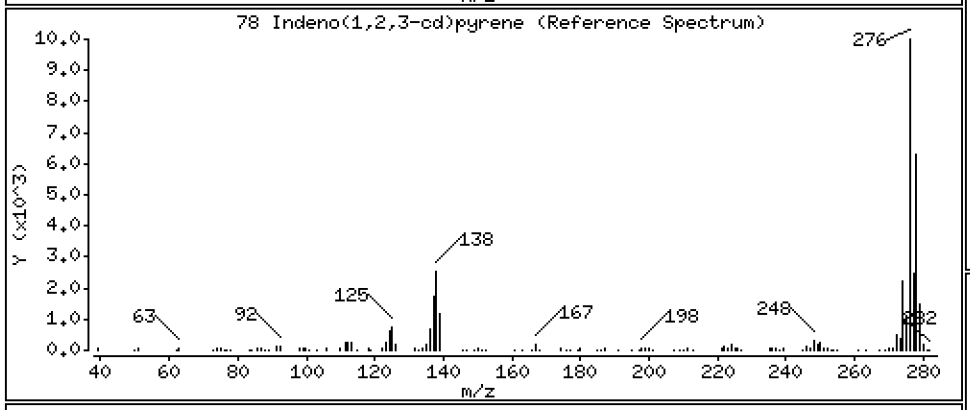
Column diameter: 0.25

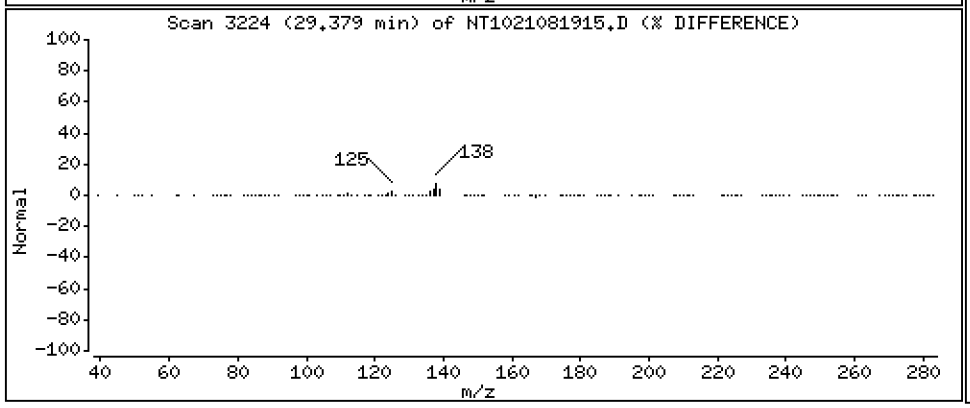
78 Indeno(1,2,3-cd)pyrene

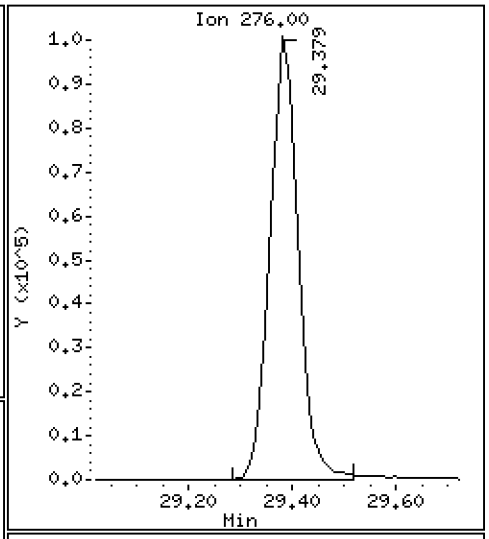
Concentration: 4.855 ug/mL

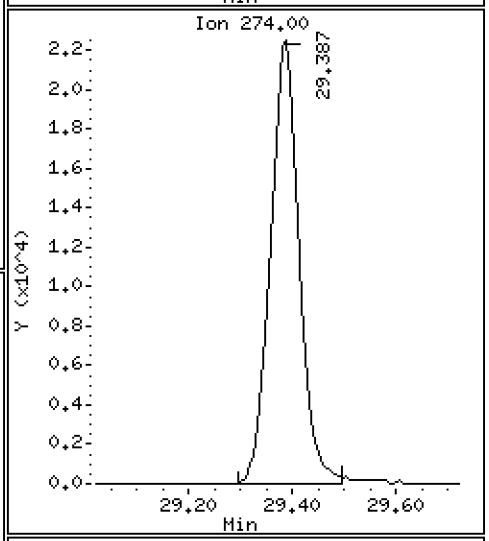


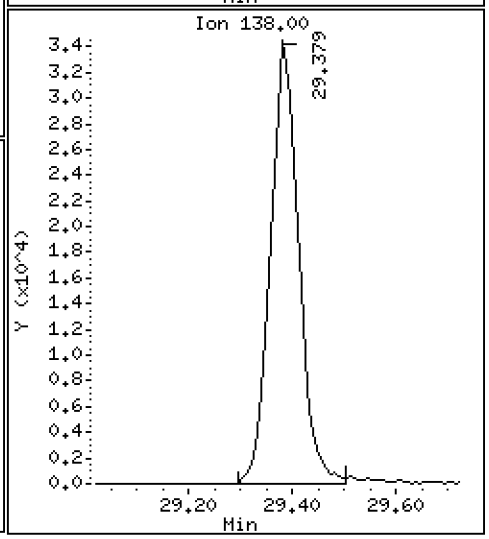












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

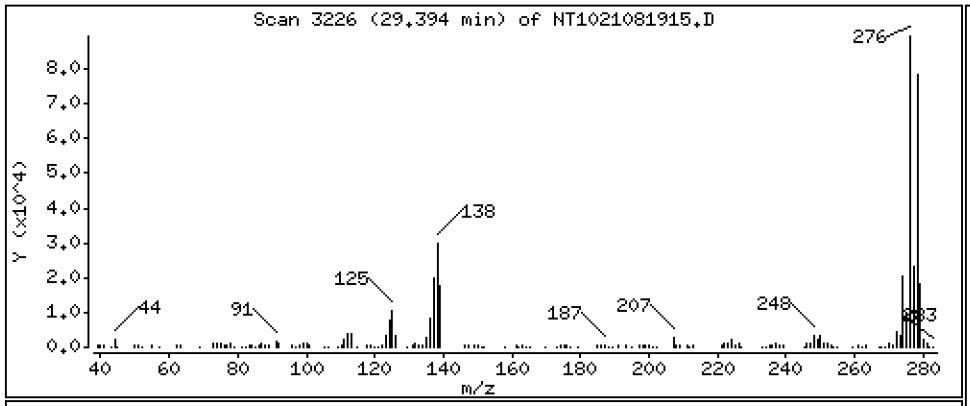
Operator: VTS

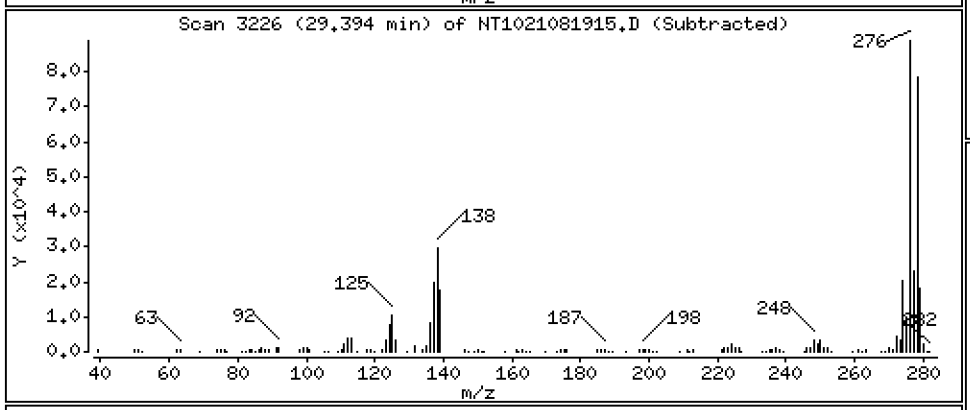
Column phase: ZB-5msi

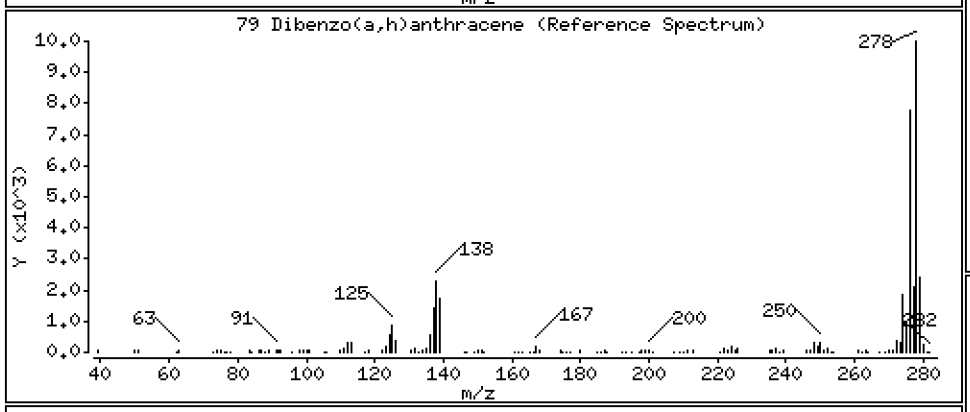
Column diameter: 0.25

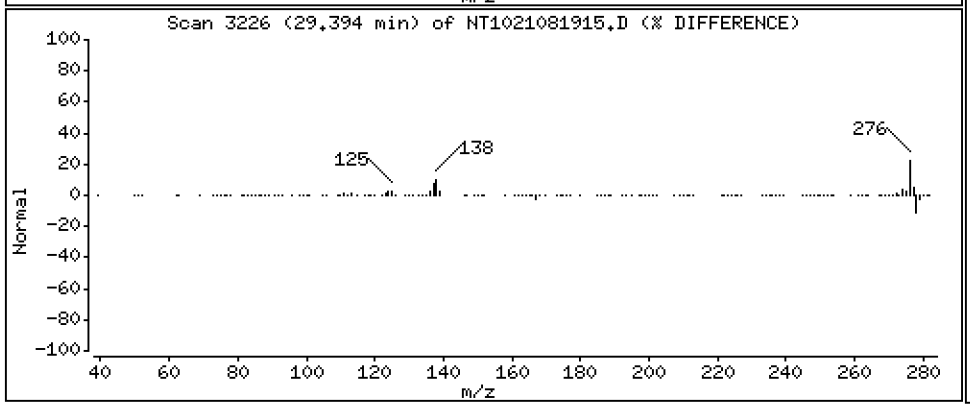
79 Dibenzo(a,h)anthracene

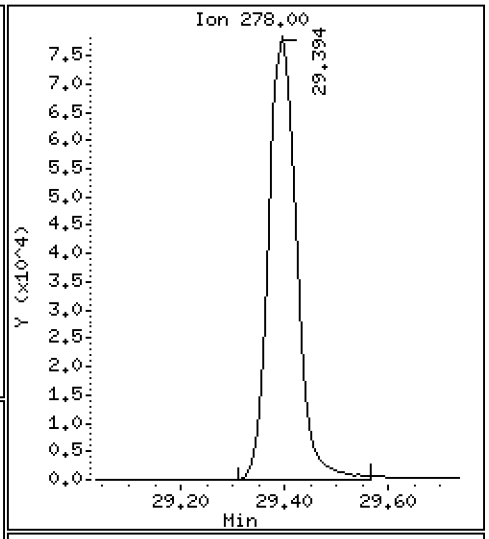
Concentration: 4.838 ug/mL

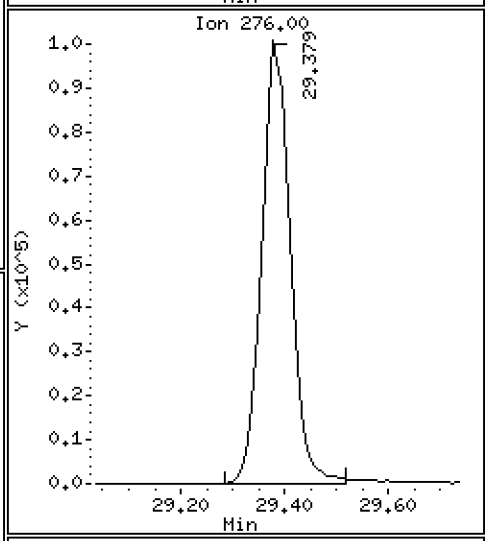


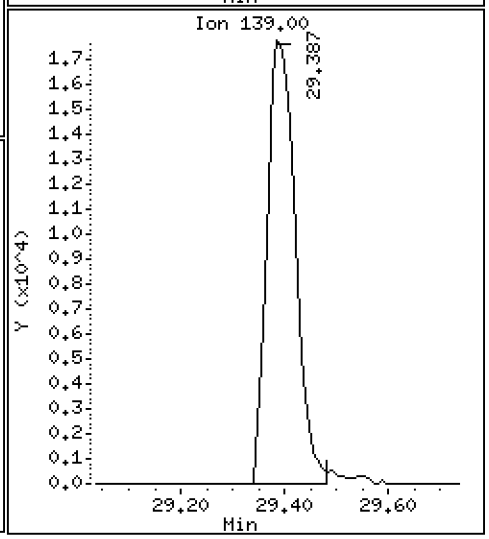












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

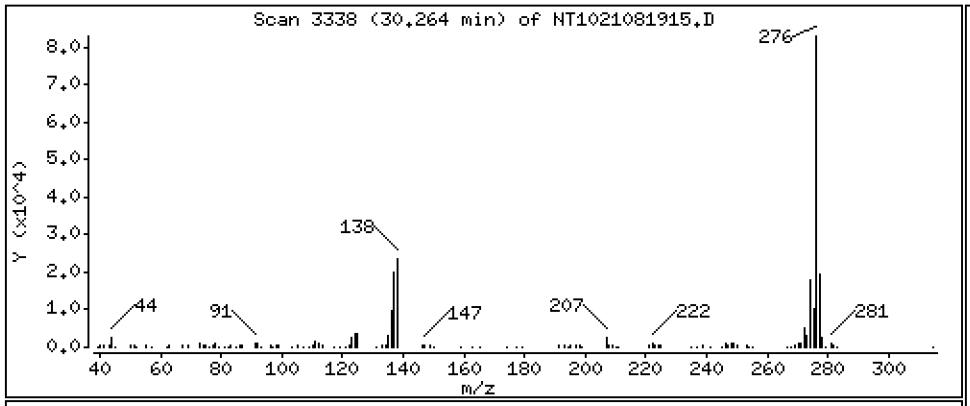
Operator: VTS

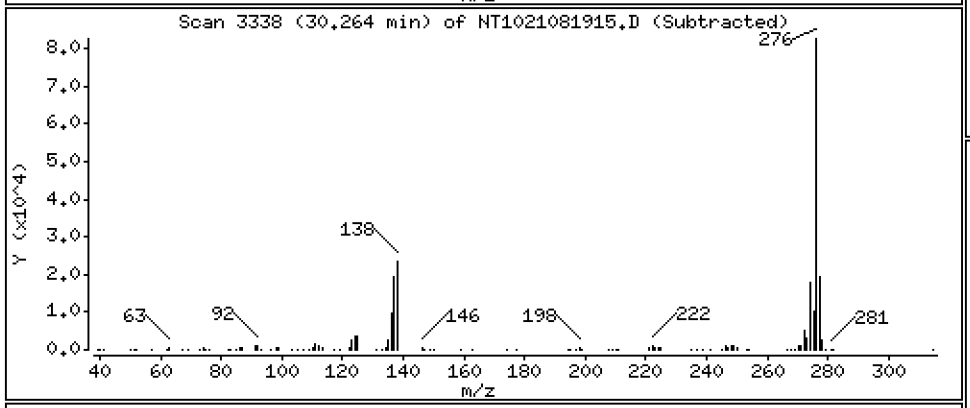
Column phase: ZB-5msi

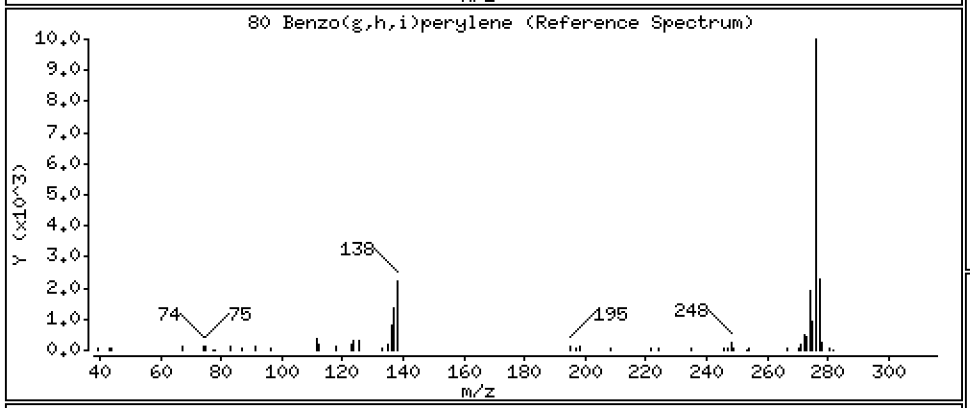
Column diameter: 0.25

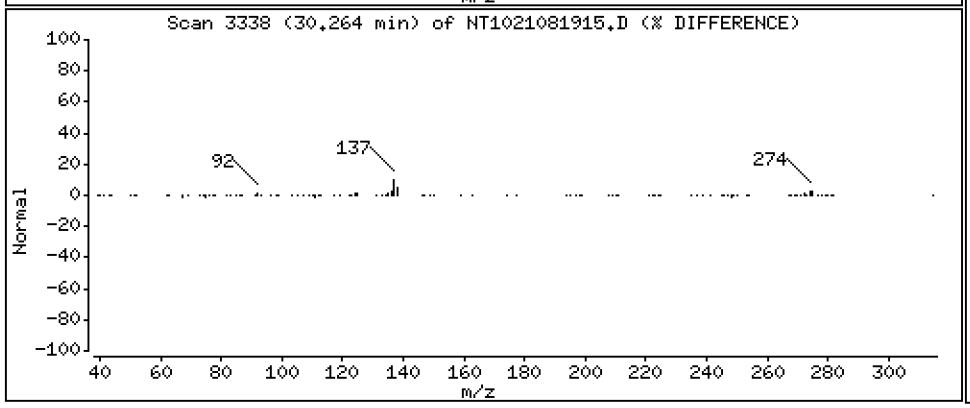
80 Benzo(g,h,i)perylene

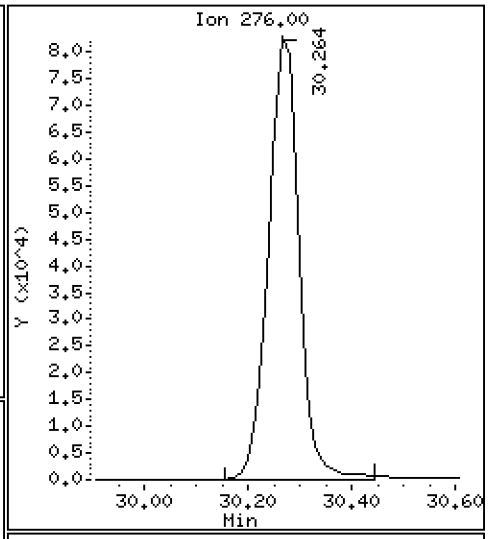
Concentration: 4.923 ug/mL

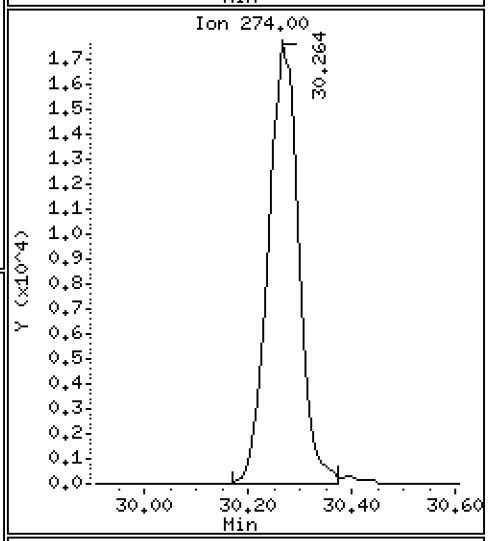


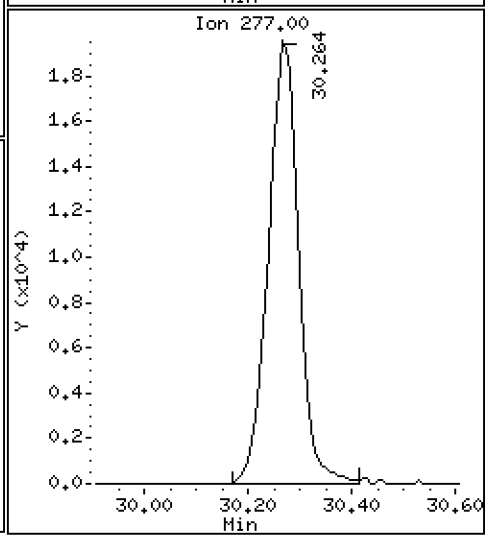












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

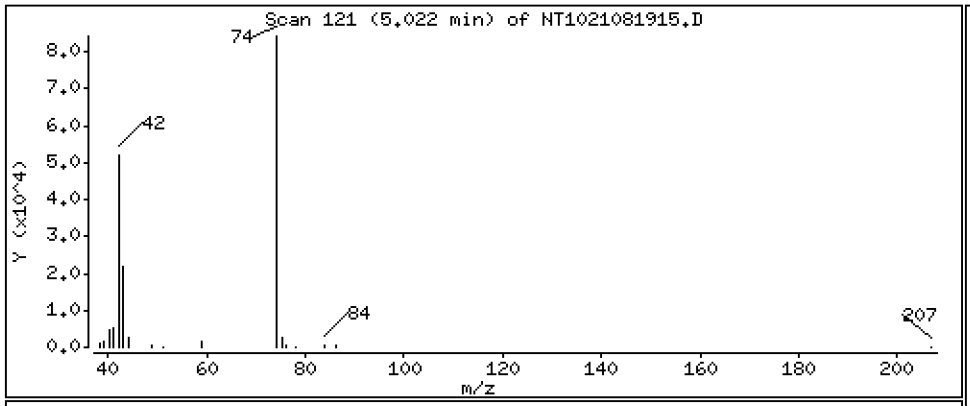
Operator: VTS

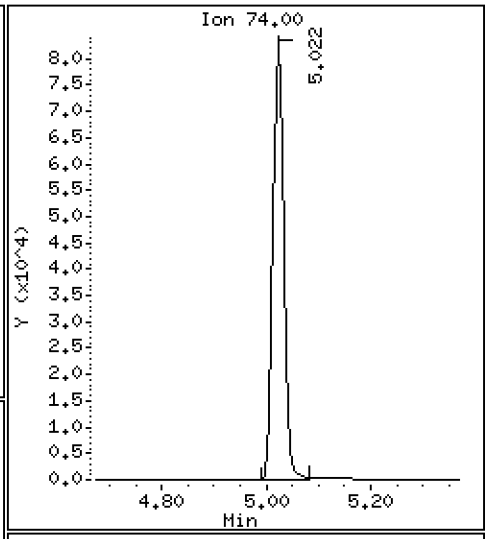
Column phase: ZB-5msi

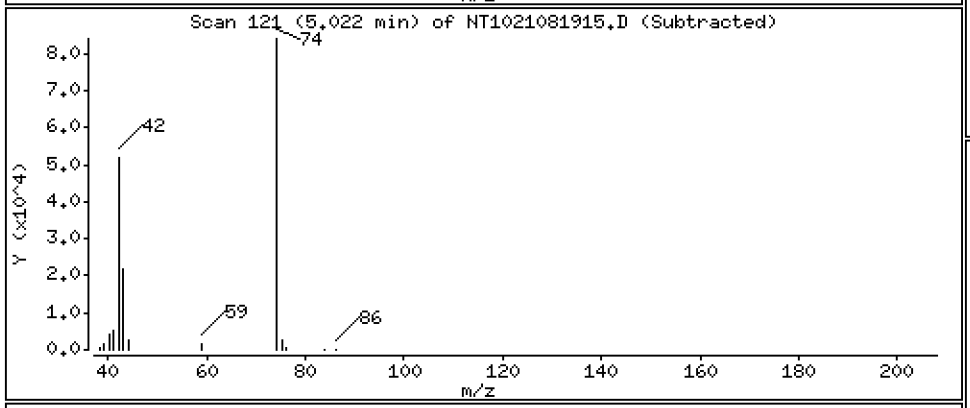
Column diameter: 0.25

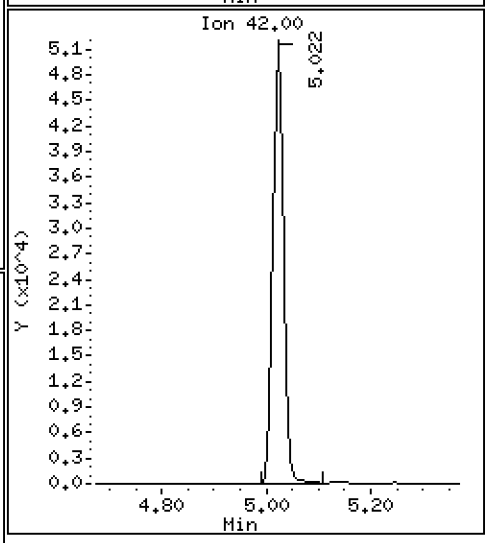
90 N-Nitrosodimethylamine

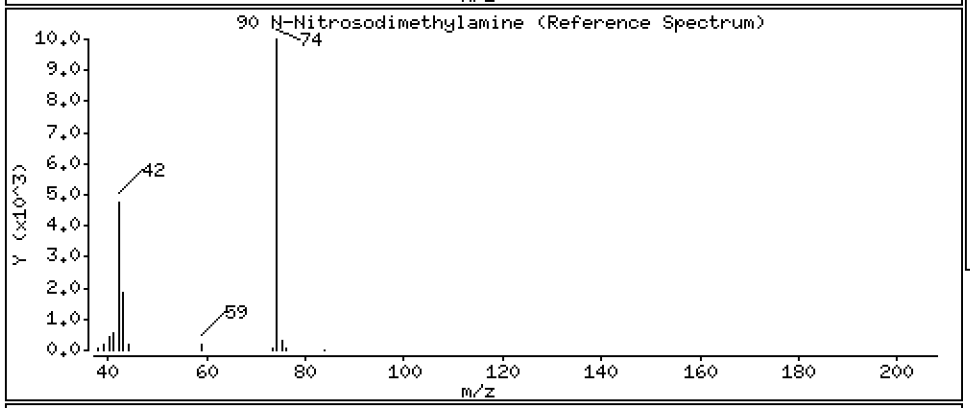
Concentration: 6.037 ug/mL

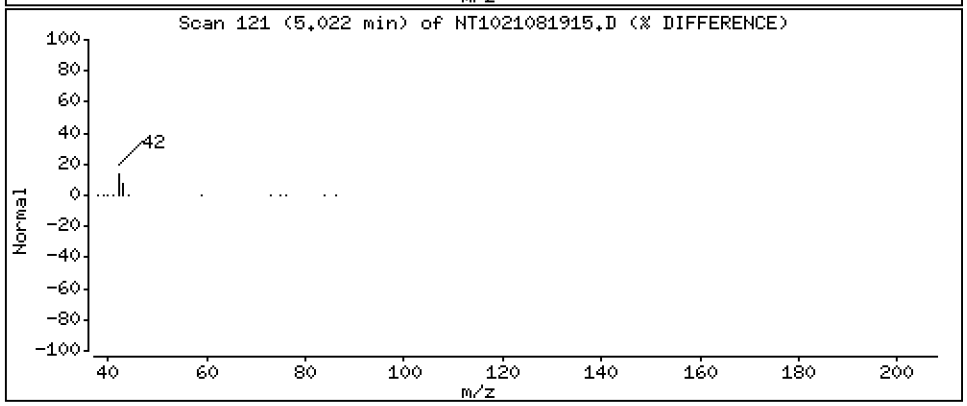












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

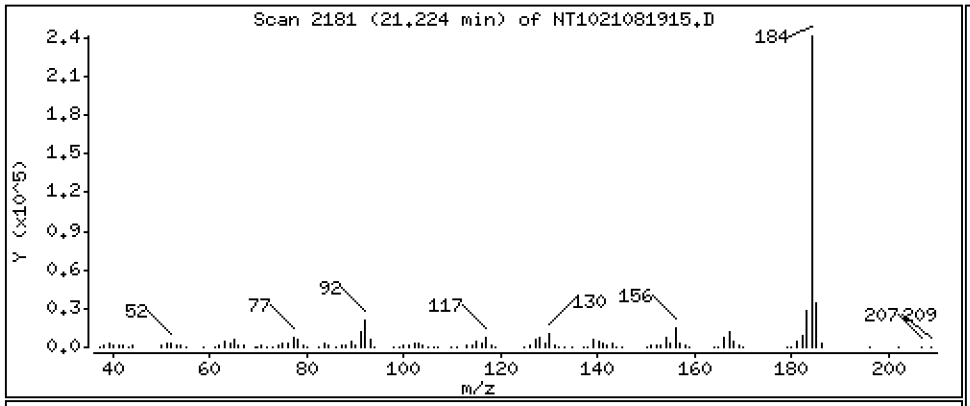
Operator: VTS

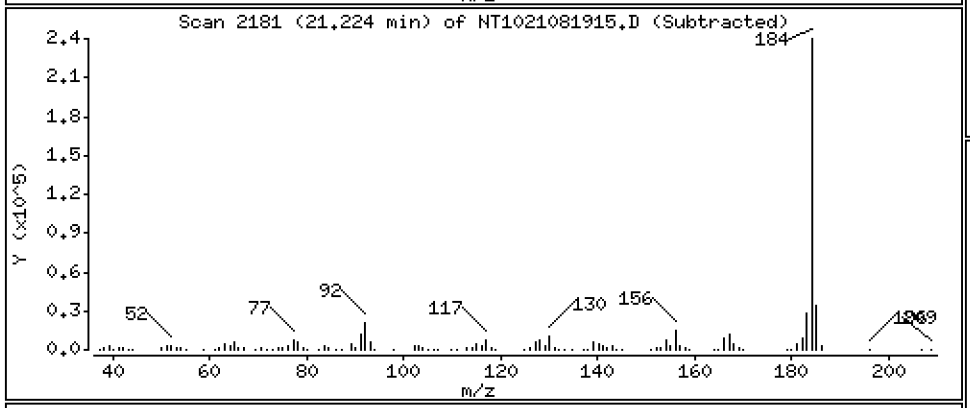
Column phase: ZB-5msi

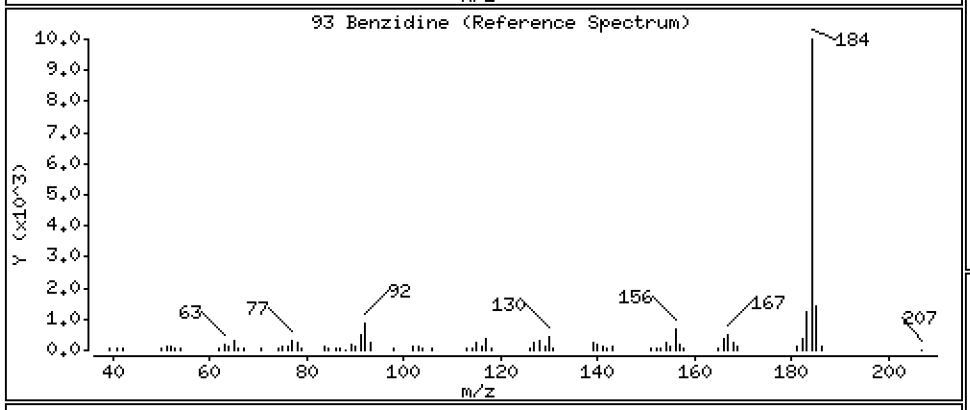
Column diameter: 0.25

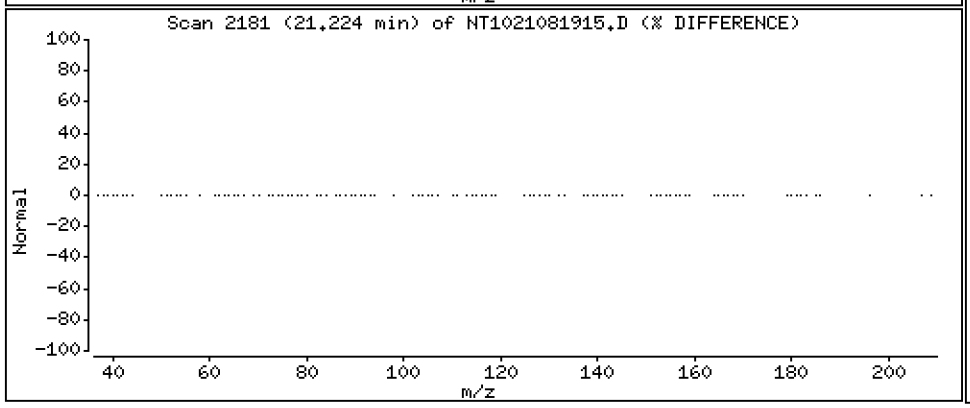
93 Benzidine

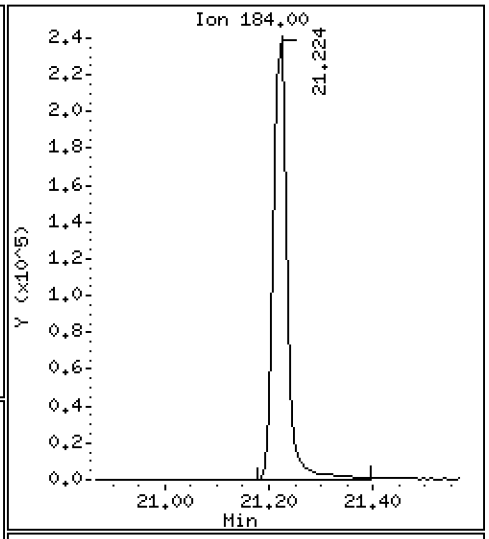
Concentration: 8.480 ug/mL

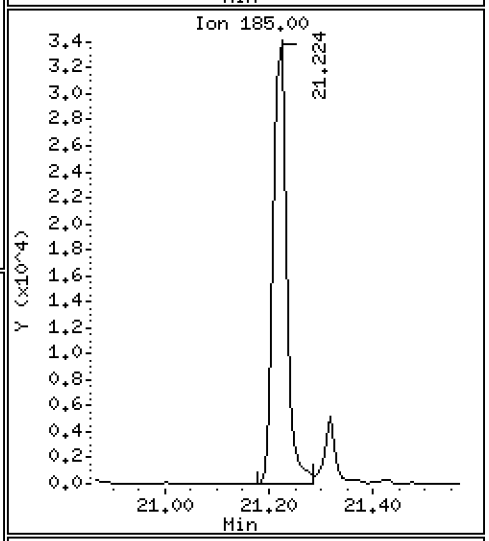


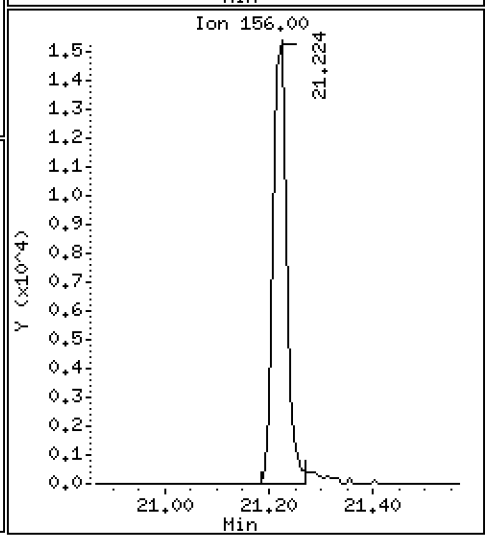












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

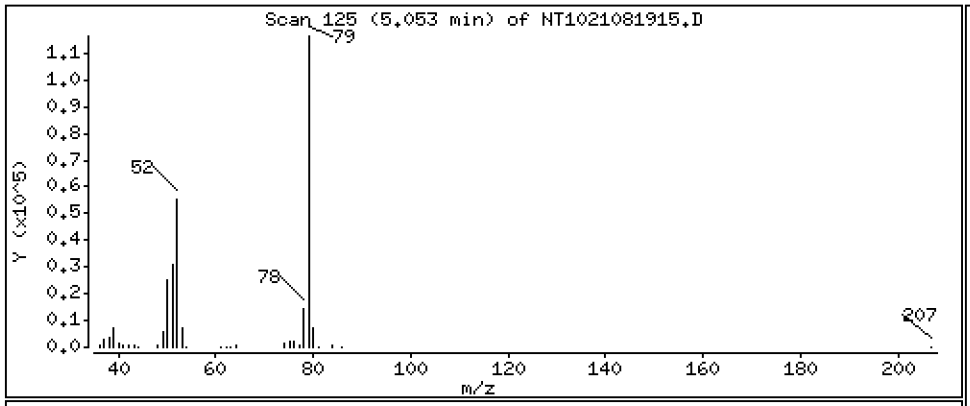
Operator: VTS

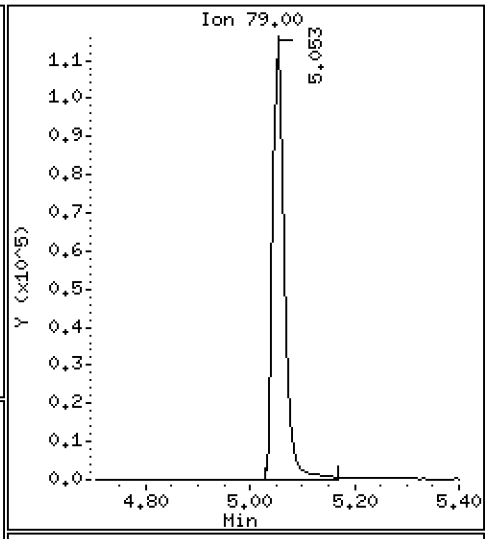
Column phase: ZB-5msi

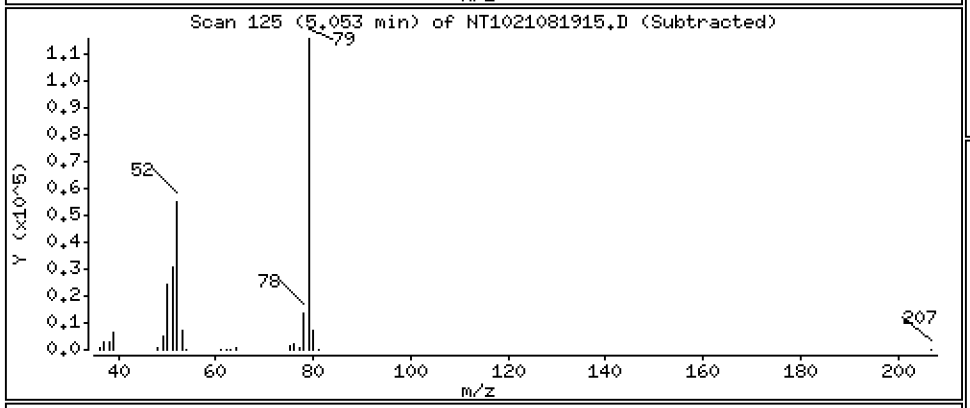
Column diameter: 0.25

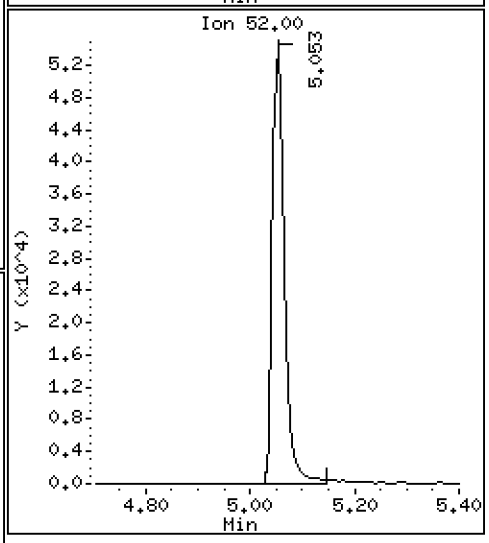
103 Pyridine

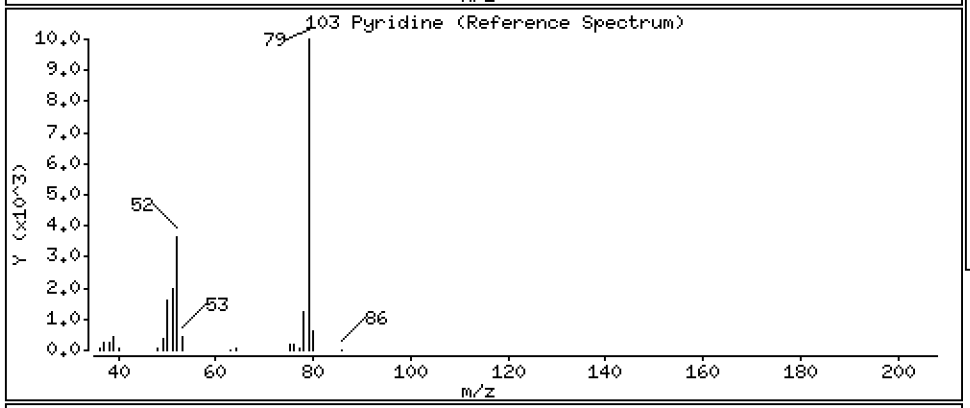
Concentration: 2.866 ug/mL

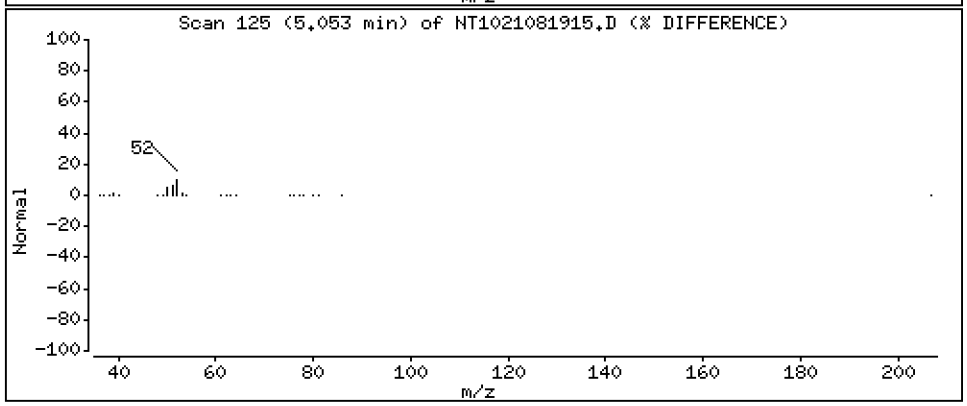












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

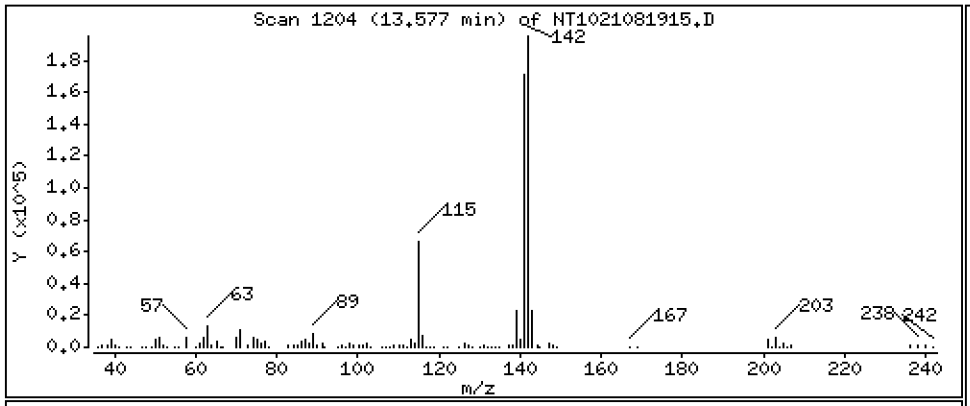
Operator: VTS

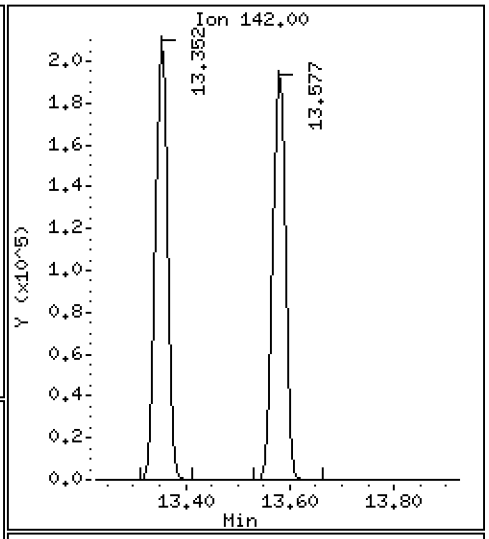
Column phase: ZB-5msi

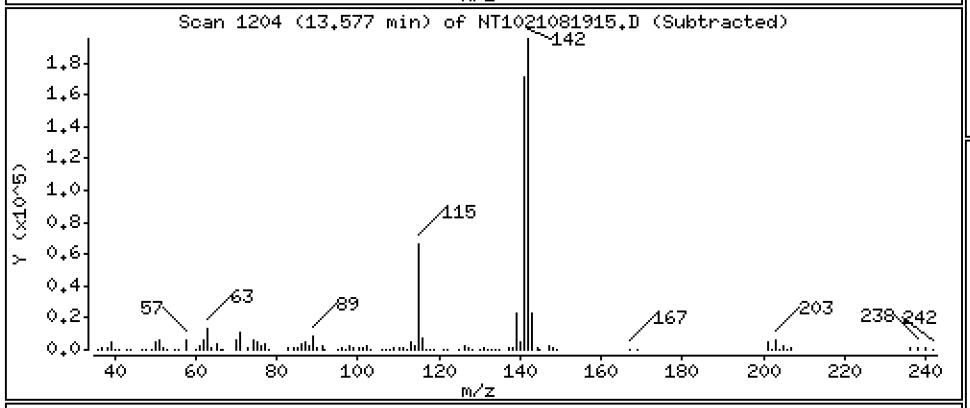
Column diameter: 0.25

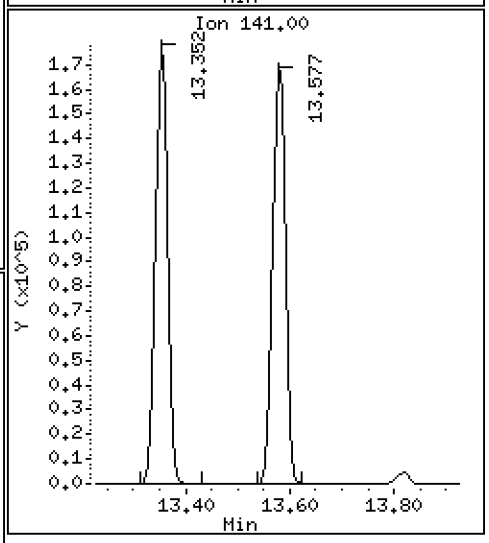
105 1-methylnaphthalene

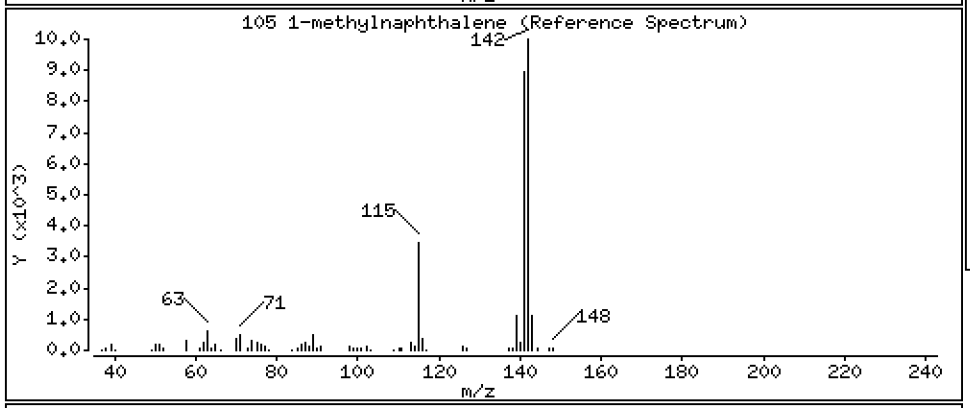
Concentration: 4.815 ug/mL

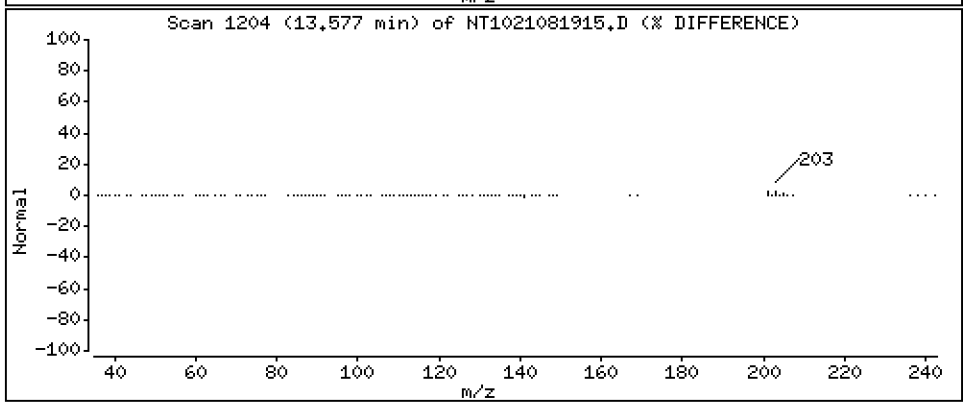












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

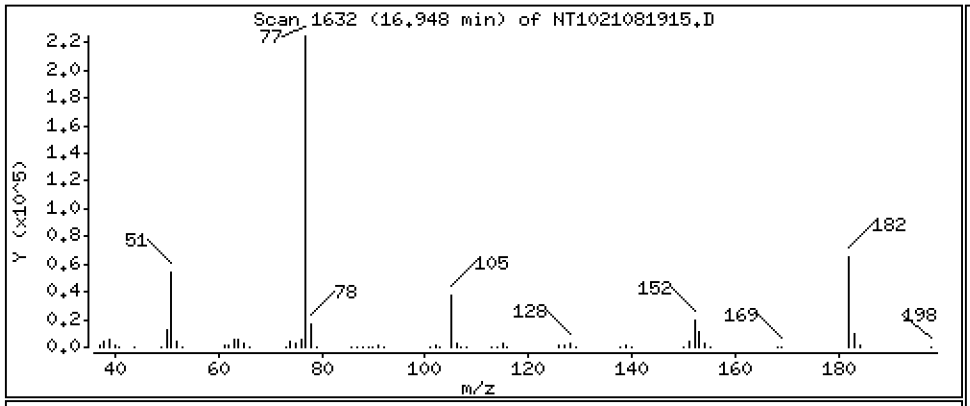
Operator: VTS

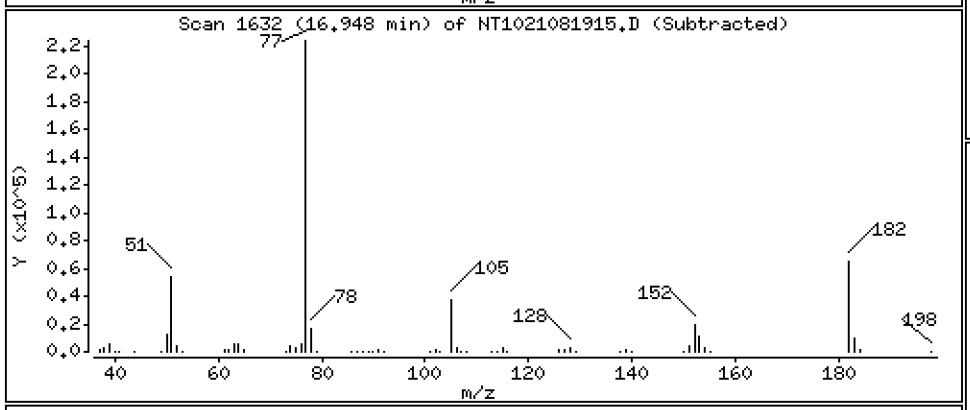
Column phase: ZB-5msi

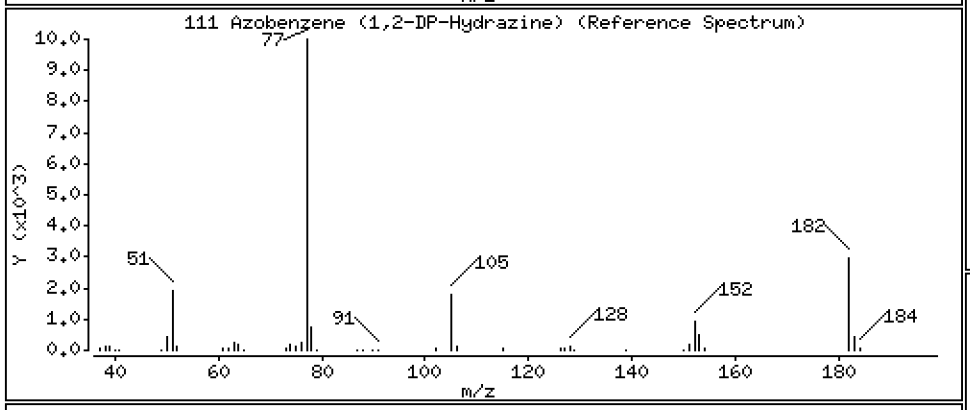
Column diameter: 0.25

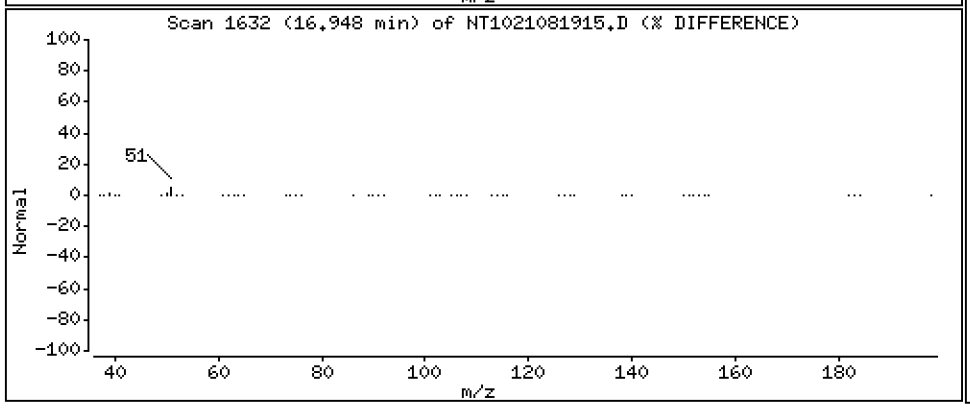
111 Azobenzene (1,2-DP-Hydrazine)

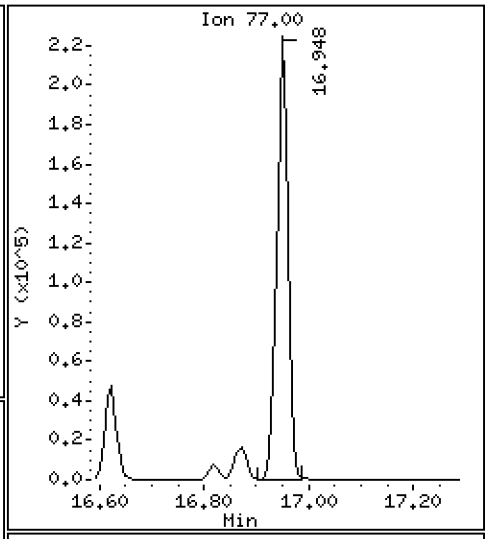
Concentration: 5.417 ug/mL

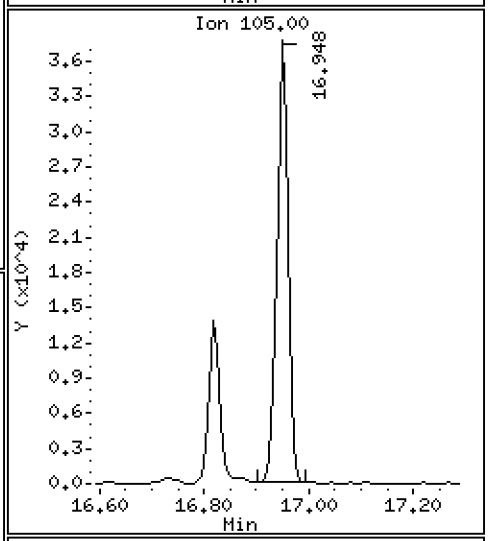


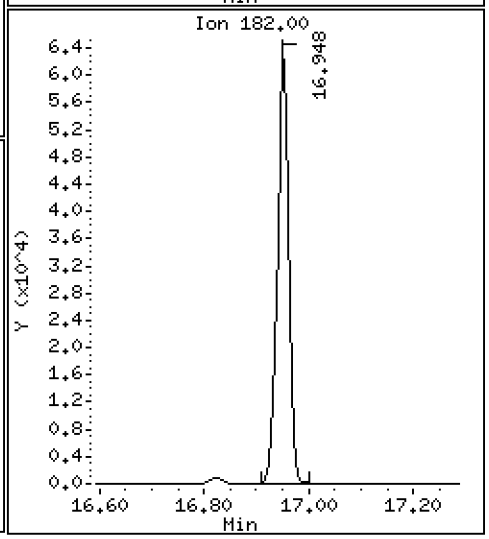












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

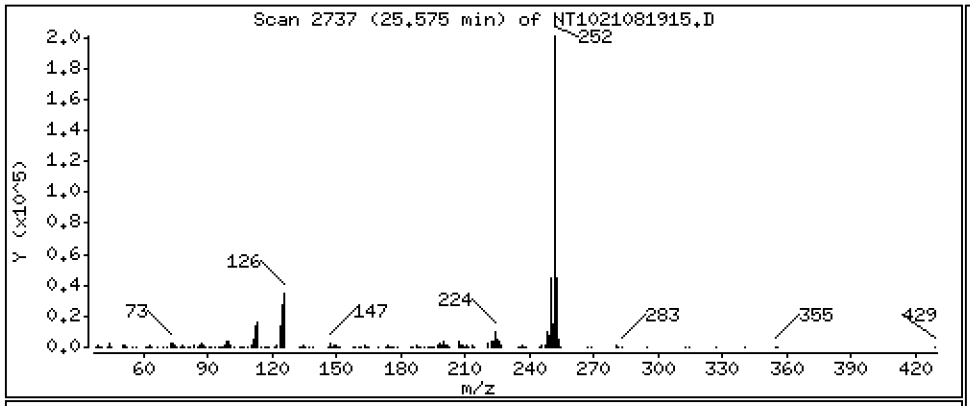
Operator: VTS

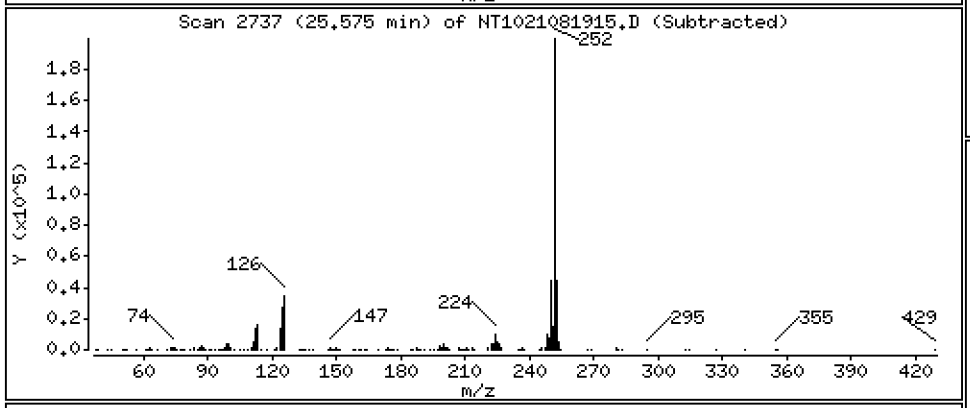
Column phase: ZB-5msi

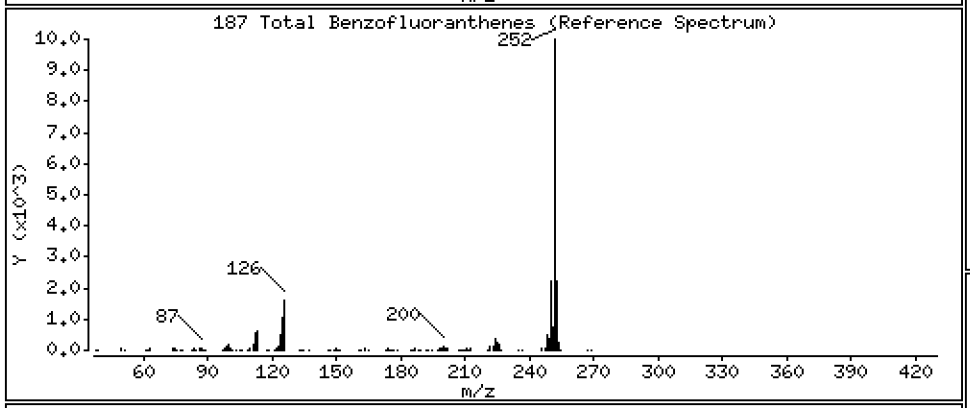
Column diameter: 0.25

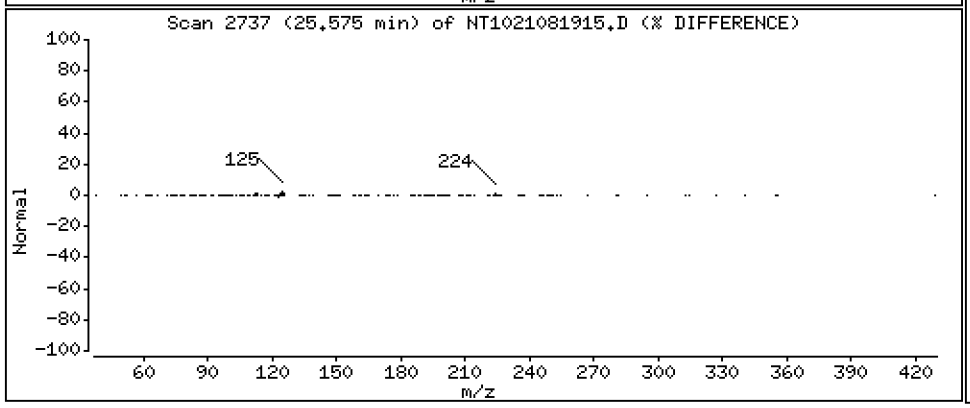
187 Total Benzofluoranthenes

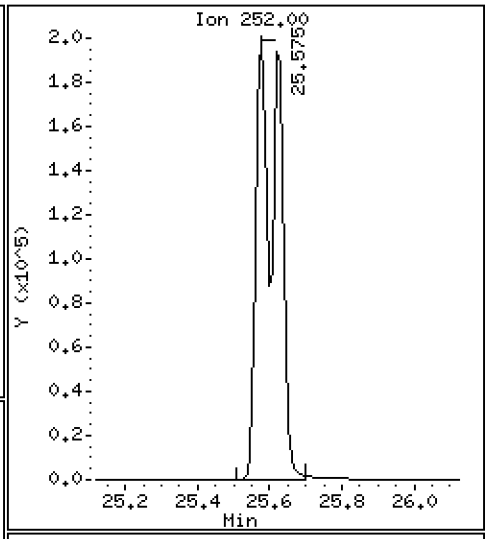
Concentration: 9.959 ug/mL

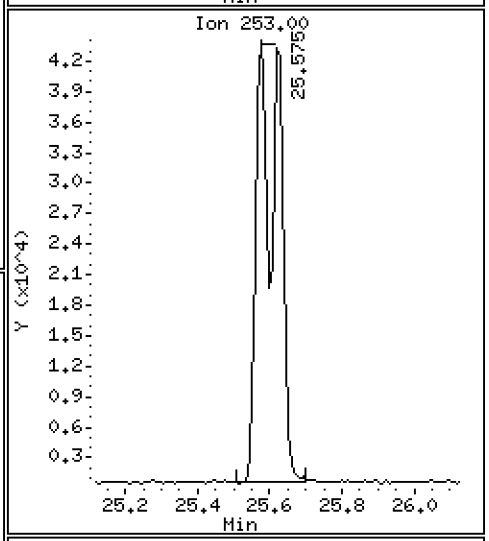


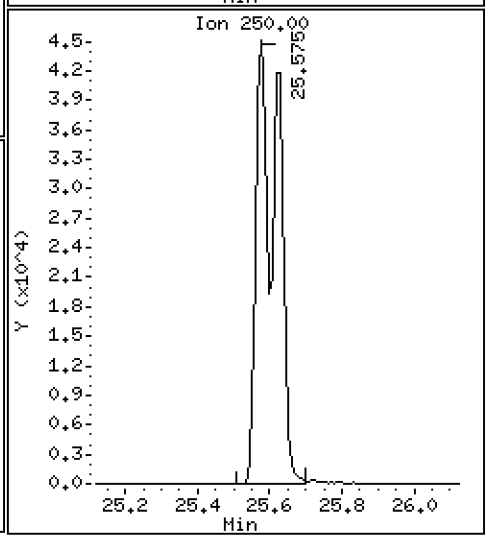












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

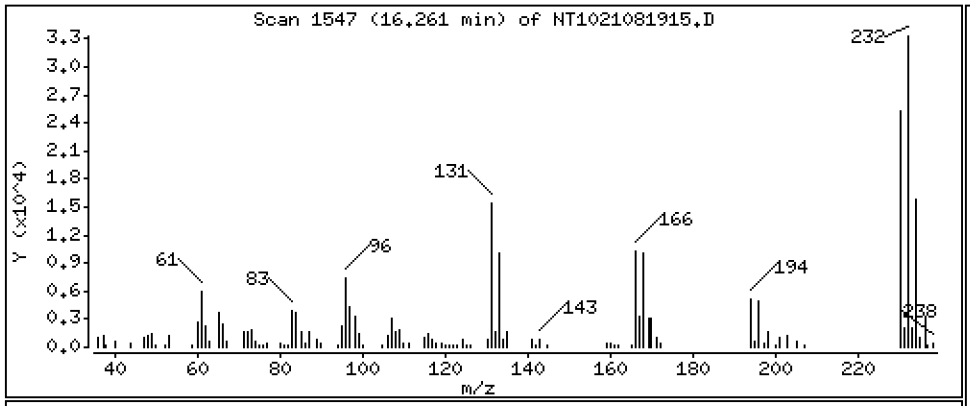
Operator: VTS

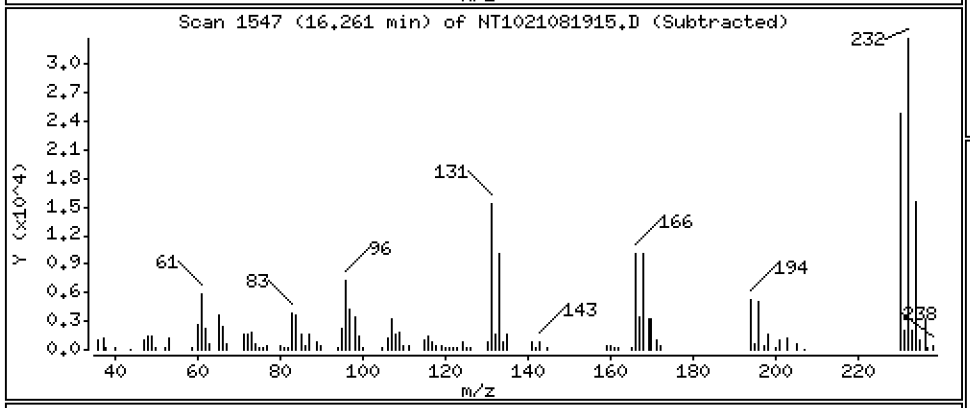
Column phase: ZB-5msi

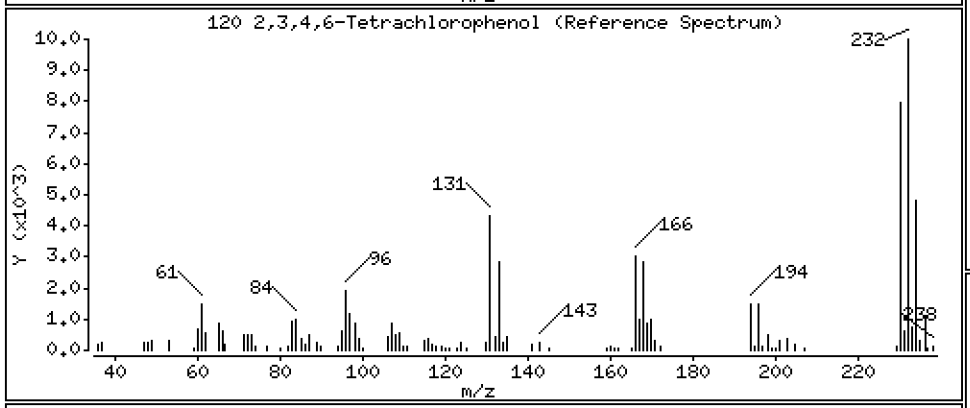
Column diameter: 0.25

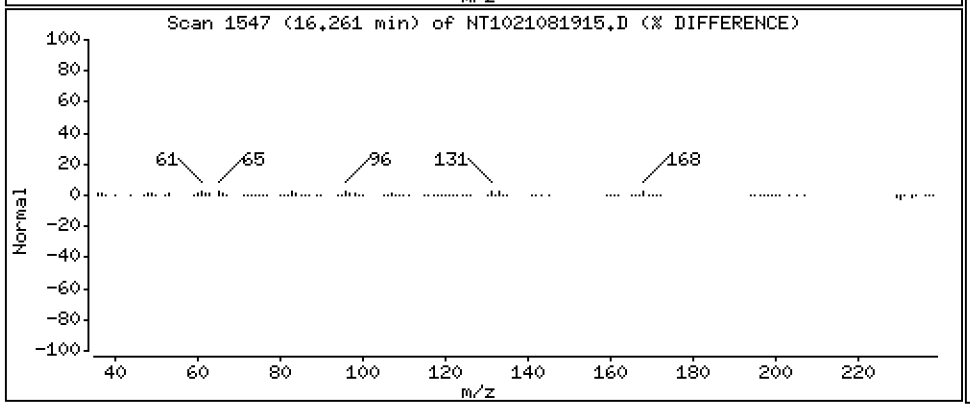
120 2,3,4,6-Tetrachlorophenol

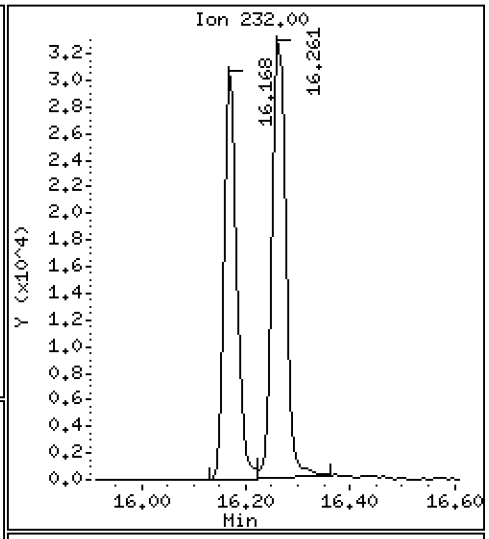
Concentration: 4.467 ug/mL

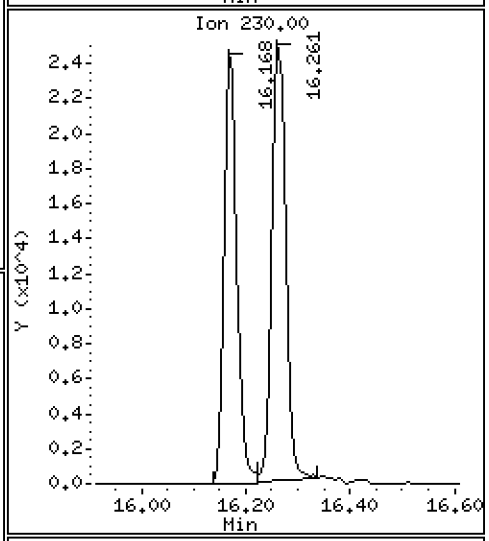


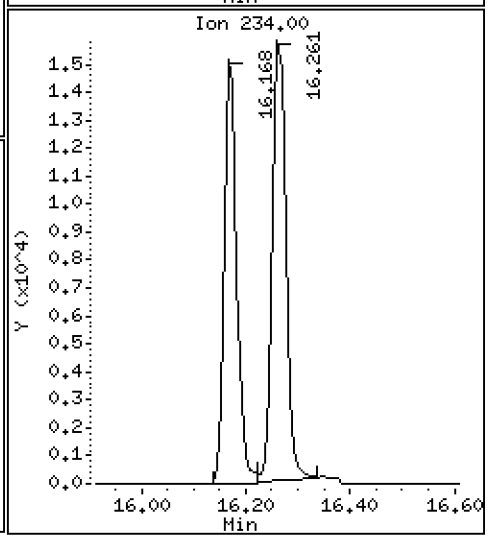












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Inj Date : 19-AUG-2021 20:42
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.784	8.784	(0.931)	199380	5.25899	5.259
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.950)	160344	5.78066	5.781
6	2-Chlorophenol	128	9.093	9.093	(0.964)	158353	5.03366	5.034
7	1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	169628	5.18579	5.186
* 8	1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	86567	4.00000	
9	1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	145074	5.85827	5.858
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	146550	5.20005	5.200
11	Benzyl alcohol	108	9.689	9.689	(1.027)	86052	4.93439	4.934
14	2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	47815	5.72048	5.720
13	2-Methylphenol	108	9.907	9.907	(1.050)	111834	4.65720	4.657
17	Hexachloroethane	117	10.411	10.411	(1.104)	60775	5.67447	5.674
16	N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	89139	5.29189	5.292
15	4-Methylphenol	108	10.178	10.171	(1.079)	120235	4.68765	4.688
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.559	10.559	(0.886)	149166	5.40261	5.403
20	Isophorone	82	11.001	11.001	(0.923)	331869	7.77753	7.778
21	2-Nitrophenol	139	11.186	11.186	(0.938)	81411	5.17753	5.178
22	2,4-Dimethylphenol	107	11.220	11.220	(0.941)	119391	4.92042	4.920
23	Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	149566	5.93771	5.938
24	Benzoic acid	105	11.381	11.339	(0.955)	66350	5.37792	5.378
25	2,4-Dichlorophenol	162	11.644	11.636	(0.977)	127985	5.14677	5.147
26	1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	120347	5.00026	5.000
* 27	Naphthalene-d8	136	11.921	11.913	(1.000)	286011	4.00000	
28	Naphthalene	128	11.959	11.959	(1.003)	361857	5.09980	5.100
29	4-Chloroaniline	127	12.083	12.075	(1.014)	157895	4.59294	4.593
30	Hexachlorobutadiene	225	12.315	12.307	(1.033)	67621	5.10670	5.107
31	4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	123056	4.92458	4.925
32	2-Methylnaphthalene	142	13.352	13.352	(1.120)	319793	4.72280	4.723
33	Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	54933	4.31449	4.314

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	84924	4.77039	4.770
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	91907	4.91422	4.914
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	14.350	14.350	(0.923)	311867	5.58535	5.585
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	82438	4.97238	4.972
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	286677	4.97899	4.979
	40 Acenaphthylene	152	15.225	15.225	(0.980)	417239	4.79575	4.796
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.976)	68264	5.36851	5.369
*	42 Acenaphthene-d10	164	15.542	15.534	(1.000)	175555	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	78104	4.56188	4.562
	44 Acenaphthene	153	15.604	15.596	(1.004)	228953	4.97526	4.975
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.008)	11153	1.66462	1.665
	46 Dibenzofuran	168	15.928	15.928	(1.025)	383631	4.69138	4.691
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	24955	4.01803	4.018
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.028)	90638	5.10639	5.106
	50 Diethylphthalate	149	16.477	16.470	(1.060)	264476	5.09602	5.096
	49 Fluorene	166	16.647	16.640	(1.071)	342768	4.72294	4.723
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	168489	5.18664	5.187
	52 4-Nitroaniline	138	16.732	16.724	(1.077)	85236	4.78806	4.788
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	50611	3.88483	3.885
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	227997	4.83479	4.835
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.948)	102044	5.39862	5.399
	57 Hexachlorobenzene	284	17.959	17.951	(0.966)	90728	5.06340	5.063
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	20638	3.12000	3.120
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	315282	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.002)	373708	4.85494	4.855
	61 Anthracene	178	18.725	18.717	(1.007)	398068	4.81320	4.813
	62 Carbazole	167	19.050	19.042	(1.025)	423459	4.97150	4.972
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	566417	5.37515	5.375
	64 Fluoranthene	202	21.000	20.992	(0.889)	552591	4.85305	4.853
	65 Pyrene	202	21.425	21.417	(0.908)	568141	4.86161	4.862
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	224852	4.88885	4.889
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	436185	4.79967	4.800
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	260128	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.996)	319253	8.82970	8.830
	71 Chrysene	228	23.647	23.647	(1.002)	337651	4.68662	4.687
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	258287	5.36165	5.362
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	500551	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	576721	5.22766	5.228
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	423157	4.87661	4.877
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	441864	5.19450	5.195
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	381697	4.97952	4.980
*	77 Perylene-d12	264	26.427	26.419	(1.000)	235857	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.378	29.371	(1.112)	384449	4.85499	4.855
	79 Dibenzo(a,h)anthracene	278	29.394	29.386	(1.112)	293070	4.83753	4.838
	80 Benzo(g,h,i)perylene	276	30.264	30.256	(1.145)	340450	4.92315	4.923
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.532)	112508	6.03654	6.037
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	21.224	21.216	(0.899)	417920	8.48003	8.480
	103 Pyridine	79	5.052	5.052	(0.536)	168778	2.86646	2.866
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	314464	4.81470	4.815
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.090)	324373	5.41670	5.417

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.575	25.621	(0.968)	824481	9.95946	9.959
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.046)	57716	4.46735	4.467

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	86567	-11.23
27 Naphthalene-d8	336155	168078	672310	286011	-14.92
42 Acenaphthene-d10	204971	102486	409942	175555	-14.35
59 Phenanthrene-d10	357720	178860	715440	315282	-11.86
69 Chrysene-d12	291052	145526	582104	260128	-10.62
134 Di-n-octylphthala	588887	294444	1177774	500551	-15.00
77 Perylene-d12	273109	136555	546218	235857	-13.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.54	0.05
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081915.D

Lab ID: SJH0235-SCV1
nt10.i, ABN.m, 19-AUG-2021 20:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1021081912.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091106.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/11/21
Lab Sample ID:	SJI0174-ICV1	Injection Time:	13:30
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	5.3	1.7518100	1.8689560		6.7	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.7	1.2816900	1.2038400		-6.1	+/-20	
2-Chlorophenol	A	5.0000	4.9	1.4536170	1.4248270		-2.0	+/-20	
1,3-Dichlorobenzene	A	5.0000	5.1	1.5114380	1.5319250		1.4	+/-20	
1,4-Dichlorobenzene	A	5.0000	5.2	1.1442690	1.1971650		4.6	+/-20	
1,2-Dichlorobenzene	A	5.0000	5.1	1.3022240	1.3194310		1.3	+/-20	
Benzyl Alcohol	A	5.0000	5.5	0.8058147	0.8940903		11.0	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.1	0.3862240	0.3931448		1.8	+/-20	
2-Methylphenol	A	5.0000	5.1	1.1095740	1.1361250		2.4	+/-20	
Hexachloroethane	A	5.0000	5.9	0.4948888	0.5798614		17.2	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.2	0.7783317	0.8107650		4.2	+/-20	
4-Methylphenol	A	5.0000	5.1	1.1851760	1.2138790		2.4	+/-20	
Nitrobenzene	A	5.0000	6.1	0.3861385	0.4712747		22.0	+/-20	*
Isophorone	A	5.0000	6.0	0.5967638	0.7176809		20.3	+/-20	
2-Nitrophenol	A	5.0000	6.1	0.2199064	0.2670602		21.4	+/-20	*
2,4-Dimethylphenol	A	10.000	9.9	0.3393492	0.3372044		-0.6	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.8	0.3522827	0.3395478		-3.6	+/-20	
2,4-Dichlorophenol	A	10.000	11.0	0.3477772	0.3834129		10.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	5.1	0.3366044	0.3437695		2.1	+/-20	
Naphthalene	A	5.0000	5.4	0.9923411	1.0676880		7.6	+/-20	
Benzoic acid	A	20.000	22.4	0.1282034	0.1981441		12.1	+/-20	
4-Chloroaniline	A	10.000	10.4	0.4807898	0.5001386		4.0	+/-20	
Hexachlorobutadiene	A	5.0000	6.0	0.1851905	0.2229795		20.4	+/-20	
4-Chloro-3-Methylphenol	A	10.000	12.8	0.3494710	0.4465216		27.8	+/-20	*
2-Methylnaphthalene	A	5.0000	5.9	0.9469932	1.1145590		17.7	+/-20	
Hexachlorocyclopentadiene	A	10.000	8.8	0.2380948	0.2591506		-11.9	+/-20	
2,4,6-Trichlorophenol	A	10.000	12.3	0.4056237	0.5000495		23.3	+/-20	*
2,4,5-Trichlorophenol	A	10.000	12.3	0.4261287	0.5246494		23.1	+/-20	*
2-Chloronaphthalene	A	5.0000	5.7	1.2722300	1.4415560		13.3	+/-20	
2-Nitroaniline	A	10.000	13.5	0.3777549	0.5116537		35.4	+/-20	*
Acenaphthylene	A	5.0000	5.2	1.9823260	2.0423970		3.0	+/-20	

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091106.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/11/21
Lab Sample ID:	SJI0174-ICV1	Injection Time:	13:30
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Dimethylphthalate	A	5.0000	5.4	1.3118930	1.4298140		9.0	+/-20
2,6-Dinitrotoluene	A	10.000	11.6	0.2897240	0.3373603		16.4	+/-20
Acenaphthene	A	5.0000	5.3	1.0485220	1.1050800		5.4	+/-20
3-Nitroaniline	A	10.000	9.3	0.3901002	0.3608392		-7.5	+/-20
2,4-Dinitrophenol	A	20.000	19.0	0.1061965	0.1494926		-5.1	+/-20
Dibenzofuran	A	5.0000	5.6	1.8632010	2.1027790		12.9	+/-20
4-Nitrophenol	A	10.000	14.9	0.1112987	0.2117334		48.8	+/-20 *
2,4-Dinitrotoluene	A	10.000	11.7	0.4044297	0.4748498		17.4	+/-20
Fluorene	A	5.0000	5.4	1.6536160	1.7866170		8.0	+/-20
4-Chlorophenylphenyl ether	A	5.0000	5.3	0.7401715	0.7794897		5.3	+/-20
Diethyl phthalate	A	5.0000	5.7	1.1825010	1.3408330		13.4	+/-20
4-Nitroaniline	A	10.000	9.5	0.4056112	0.3858697		-4.9	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	24.0	0.1305331	0.1978875		19.9	+/-20
N-Nitrosodiphenylamine	A	5.0000	5.4	0.5982903	0.6491189		8.5	+/-20
4-Bromophenyl phenyl ether	A	5.0000	5.9	0.2398092	0.2848993		18.8	+/-20
Hexachlorobenzene	A	5.0000	5.8	0.2273318	0.2614899		15.0	+/-20
Pentachlorophenol	A	10.000	10.3	0.0665517	0.0886279		3.2	+/-20
Phenanthrene	A	5.0000	5.2	0.9765836	1.0220650		4.7	+/-20
Anthracene	A	5.0000	5.1	1.0492630	1.0729840		2.3	+/-20
Carbazole	A	5.0000	4.7	1.0806490	1.0263160		-5.0	+/-20
Di-n-Butylphthalate	A	5.0000	6.1	1.3369240	1.6245120		21.5	+/-20 *
Fluoranthene	A	5.0000	7.9	1.7509030	2.7514030		57.1	+/-20 *
Pyrene	A	5.0000	4.9	1.7970040	1.7702220		-1.5	+/-20
Butylbenzylphthalate	A	5.0000	7.4	0.7072339	1.0528500		48.9	+/-20 *
Benzo(a)anthracene	A	5.0000	5.3	1.3974370	1.4708420		5.3	+/-20
3,3'-Dichlorobenzidine	A	15.000	14.8	0.5559834	0.5501195		-1.1	+/-20
Chrysene	A	5.0000	4.1	1.1078500	0.9030328		-18.5	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.3849599	0.4233965		10.0	+/-20
Di-n-Octylphthalate	A	5.0000	5.0	0.8815966	0.8765703		-0.6	+/-20
Benzofluoranthenes, Total	A	10.000	10.4	1.4039640	1.4645280		4.3	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.2999960	1.2565670		-3.3	+/-20

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091106.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/11/21
Lab Sample ID:	SJI0174-ICV1	Injection Time:	13:30
Sequence Name:	Initial Cal Check		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Indeno(1,2,3-cd)pyrene	A	5.0000	5.8	1.3429560	1.5652760		16.6	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.9	1.0274450	1.2141180		18.2	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.6	1.1727930	1.3194550		12.5	+/-20
1-Methylnaphthalene	A	5.0000	5.4	0.9134377	0.9777164		7.0	+/-20
2-Fluorophenol	A	7.5000	7.56	1.3373020	1.3486660		0.9	+/-20
Phenol-d5	A	7.5000	8.43	1.9140080	2.1514820		12.4	+/-20
2-Chlorophenol-d4	A	7.5000	7.39	1.3634350	1.3429230		-1.5	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.97	0.9261509	0.9209011		-0.6	+/-20
Nitrobenzene-d5	A	5.0000	5.83	0.4188149	0.4886856		16.7	+/-20
2-Fluorobiphenyl	A	5.0000	5.55	1.5981010	1.7725060		10.9	+/-20
2,4,6-Tribromophenol	A	7.5000	7.99	0.1388940	0.1638948		6.5	+/-20
p-Terphenyl-d14	A	5.0000	6.32	1.1291920	1.4281930		26.5	+/-20 *
Phenanthrene-d10	A	4.0000	4.0	78426.0700	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	62909.9600	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	121584.1000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	57771.7900	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091106.D

Date : 11-SEP-2021 13:30

Client ID:

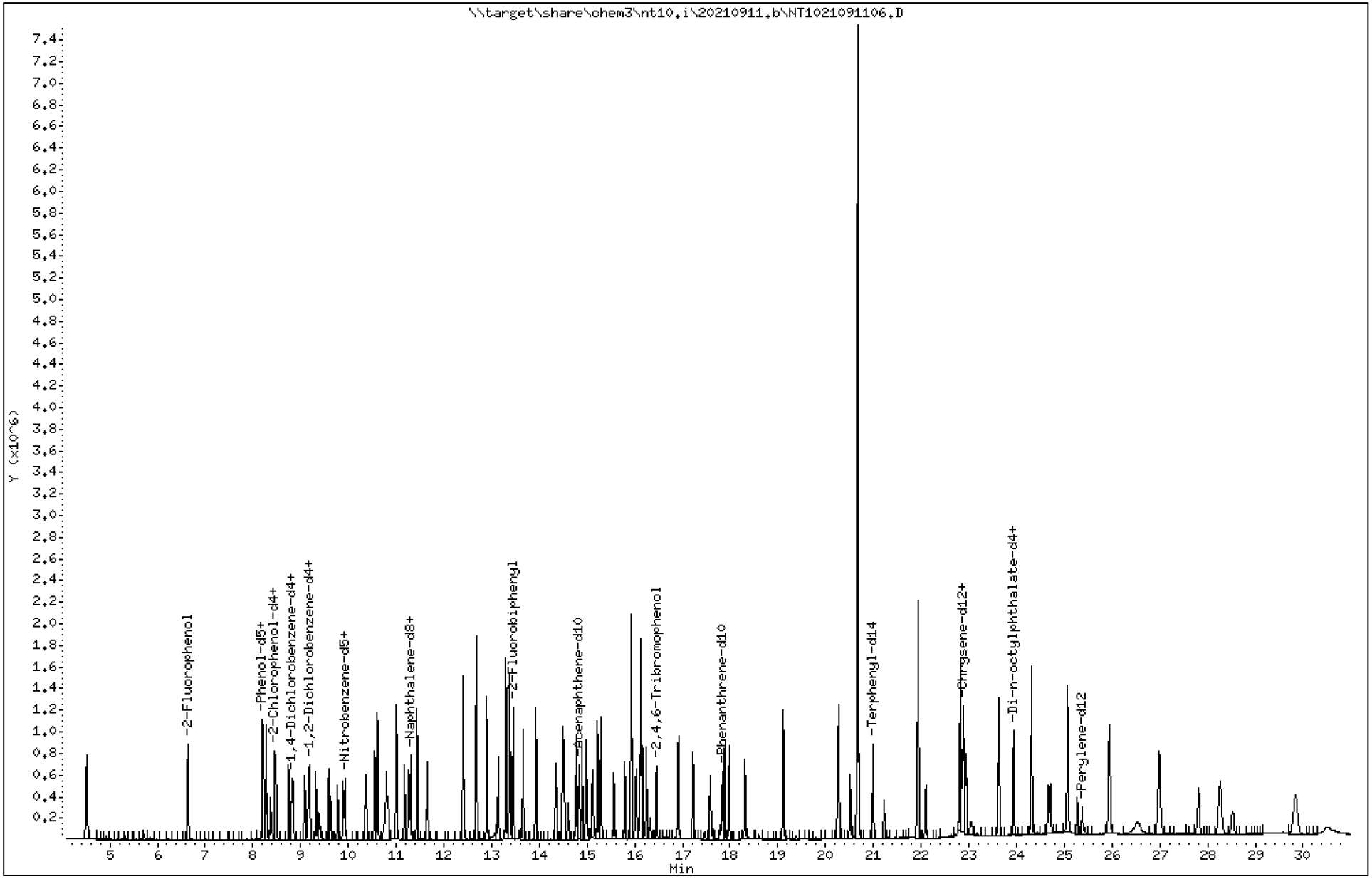
Instrument: nt10.i

Sample Info: SJI0174-ICV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091106.D
Lab Smp Id: SJI0174-ICV1
Inj Date : 11-SEP-2021 13:30
Operator : VTS Inst ID: nt10.i
Smp Info : SJI0174-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.635	6.635	(0.753)	348224	7.50000	7.564
$	2 Phenol-d5	99	8.204	8.204	(0.931)	555510	7.50000	8.431
	3 Phenol	94	8.227	8.227	(0.933)	321708	5.00000	5.334
$	5 2-Chlorophenol-d4	132	8.459	8.459	(0.960)	346741	7.50000	7.387
	4 Bis(2-Chloroethyl)ether	93	8.366	8.366	(0.949)	207220	5.00000	4.696
	6 2-Chlorophenol	128	8.490	8.490	(0.963)	245259	5.00000	4.901
	7 1,3-Dichlorobenzene	146	8.745	8.745	(0.992)	263694	5.00000	5.068
*	8 1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	137706	4.00000	
	9 1,4-Dichlorobenzene	146	8.846	8.846	(1.004)	206071	5.00000	5.231
$	10 1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	158517	5.00000	4.972
	12 1,2-Dichlorobenzene	146	9.188	9.188	(1.042)	227117	5.00000	5.066
	11 Benzyl alcohol	108	9.087	9.087	(1.031)	153902	5.00000	5.548
	14 2,2'-oxybis(1-Chloropropane)	121	9.374	9.374	(1.063)	67673	5.00000	5.090(M)
	13 2-Methylphenol	108	9.320	9.320	(1.057)	195564	5.00000	5.120
	17 Hexachloroethane	117	9.778	9.778	(1.109)	99813	5.00000	5.859
	16 N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	139559	5.00000	5.208
	15 4-Methylphenol	108	9.584	9.584	(1.087)	208948	5.00000	5.121
$	18 Nitrobenzene-d5	82	9.894	9.894	(0.879)	273185	5.00000	5.834
	19 Nitrobenzene	77	9.925	9.925	(0.881)	263452	5.00000	6.102
	20 Isophorone	82	10.367	10.367	(0.921)	401198	5.00000	6.013
	21 2-Nitrophenol	139	10.545	10.545	(0.937)	149292	5.00000	6.072
	22 2,4-Dimethylphenol	107	10.605	10.605	(0.942)	377008	10.0000	9.937
	23 Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	189814	5.00000	4.819
	24 Benzoic acid	105	10.834	10.834	(0.962)	443066	20.0000	22.41
	25 2,4-Dichlorophenol	162	11.004	11.004	(0.977)	428671	10.0000	11.02
	26 1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	192174	5.00000	5.106
*	27 Naphthalene-d8	136	11.260	11.260	(1.000)	447216	4.00000	
	28 Naphthalene	128	11.306	11.306	(1.004)	596859	5.00000	5.380
	29 4-Chloroaniline	127	11.437	11.437	(1.016)	559175	10.0000	10.40
	30 Hexachlorobutadiene	225	11.654	11.654	(1.035)	124650	5.00000	6.020
	31 4-Chloro-3-methylphenol	107	12.405	12.405	(1.102)	499229	10.0000	12.78
	32 2-Methylnaphthalene	142	12.675	12.675	(1.126)	623061	5.00000	5.885
	33 Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	171535	10.0000	8.811

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	330989	10.0000	12.33
	35 2,4,5-Trichlorophenol	196	13.380	13.380	(0.902)	347272	10.0000	12.31
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	586622	5.00000	5.546
	37 2-Chloronaphthalene	162	13.658	13.658	(0.921)	477092	5.00000	5.665
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	338670	10.0000	13.54
	39 Dimethylphthalate	163	14.347	14.347	(0.967)	473206	5.00000	5.449
	40 Acenaphthylene	152	14.525	14.525	(0.979)	675944	5.00000	5.152
	41 2,6-Dinitrotoluene	165	14.486	14.486	(0.977)	223303	10.0000	11.64
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	264765	4.00000	
	43 3-Nitroaniline	138	14.773	14.773	(0.996)	238844	10.0000	9.250
	44 Acenaphthene	153	14.896	14.896	(1.004)	365733	5.00000	5.270
	45 2,4-Dinitrophenol	184	14.982	14.982	(1.010)	197902	20.0000	18.99
	46 Dibenzofuran	168	15.221	15.221	(1.026)	695928	5.00000	5.643
	47 4-Nitrophenol	109	15.113	15.113	(1.019)	140149	10.0000	14.88
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	314309	10.0000	11.74
	50 Diethylphthalate	149	15.793	15.793	(1.065)	443757	5.00000	5.669
	49 Fluorene	166	15.925	15.925	(1.073)	591292	5.00000	5.402
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	257977	5.00000	5.266
	52 4-Nitroaniline	138	16.025	16.025	(1.080)	255412	10.0000	9.513
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	424154	20.0000	23.97
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.907)	347832	5.00000	5.425
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	81363	7.50000	7.990
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	152664	5.00000	5.940
	57 Hexachlorobenzene	284	17.221	17.221	(0.966)	140120	5.00000	5.751
	58 Pentachlorophenol	266	17.584	17.584	(0.986)	94983	10.0000	10.32
*	59 Phenanthrene-d10	188	17.832	17.832	(1.000)	428682	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	547676	5.00000	5.233
	61 Anthracene	178	17.979	17.979	(1.008)	574961	5.00000	5.113
	62 Carbazole	167	18.312	18.312	(1.027)	549954	5.00000	4.749
	63 Di-n-butylphthalate	149	19.116	19.116	(1.072)	870499	5.00000	6.076
	64 Fluoranthene	202	20.269	20.269	(0.886)	760481	5.00000	7.857
	65 Pyrene	202	20.695	20.695	(0.904)	489285	5.00000	4.925
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	394749	5.00000	6.324
	67 Butylbenzylphthalate	149	21.918	21.918	(0.958)	291005	5.00000	7.443
	68 Benzo(a)anthracene	228	22.863	22.863	(0.999)	406537	5.00000	5.263
*	69 Chrysene-d12	240	22.886	22.886	(1.000)	221118	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.824	22.824	(0.997)	456155	15.0000	14.84
	71 Chrysene	228	22.932	22.932	(1.002)	249596	5.00000	4.076
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	214064	5.00000	5.499
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	404470	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	443183	5.00000	4.971
	74 Benzo(b)fluoranthene	252	24.674	24.674	(0.972)	299831	5.00000	5.278
	75 Benzo(k)fluoranthene	252	24.713	24.713	(0.974)	289824	5.00000	5.204
	76 Benzo(a)pyrene	252	25.270	25.270	(0.996)	242530	5.00000	4.833
*	77 Perylene-d12	264	25.379	25.379	(1.000)	154408	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.812	27.812	(1.096)	302114	5.00000	5.828
	79 Dibenzo(a,h)anthracene	278	27.819	27.819	(1.096)	234337	5.00000	5.908
	80 Benzo(g,h,i)perylene	276	28.526	28.526	(1.124)	254668	5.00000	5.625
	90 N-Nitrosodimethylamine	74	4.504	4.504	(0.511)	261210	10.0000	8.810
	91 Aniline	93	8.281	8.281	(0.939)	626093	10.0000	9.093
	93 Benzidine	184	20.517	20.517	(0.896)	357620	10.0000	8.537
	103 Pyridine	79	4.519	4.519	(0.513)	379391	5.00000	4.051
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	546563	5.00000	5.352
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.241	16.241	(1.095)	531072	5.00000	5.880

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	24.713	24.713	(0.974)	565337	10.0000	10.43
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	107758	5.00000	5.515

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091106.D
Lab Smp Id: SJI0174-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 12:28
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	137706	0.00
27 Naphthalene-d8	447216	223608	894432	447216	0.00
42 Acenaphthene-d10	264765	132383	529530	264765	0.00
59 Phenanthrene-d10	428682	214341	857364	428682	0.00
69 Chrysene-d12	221118	110559	442236	221118	0.00
134 Di-n-octylphthala	404470	202235	808940	404470	0.00
77 Perylene-d12	154408	77204	308816	154408	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.83	0.00
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.00
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091106.D

Lab ID: SJI0174-ICV1
nt10.i, ABN.m, 11-SEP-2021 13:30

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

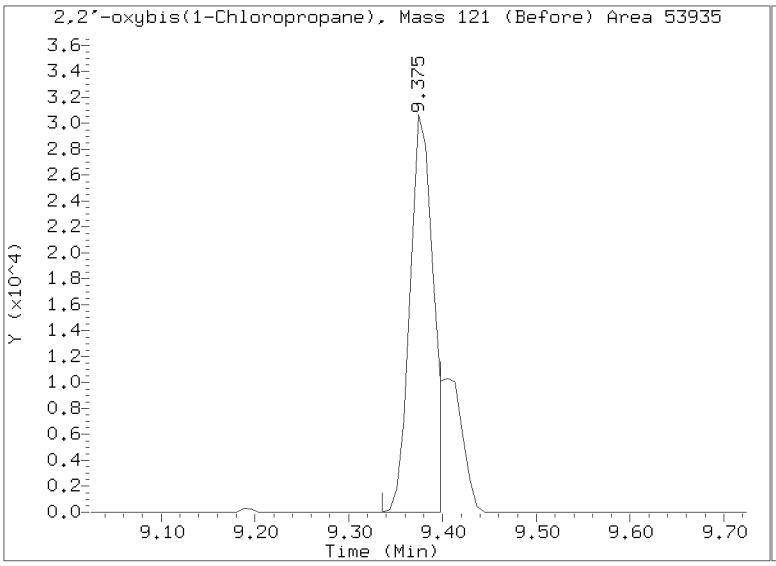
No RRT check. Ccal file.

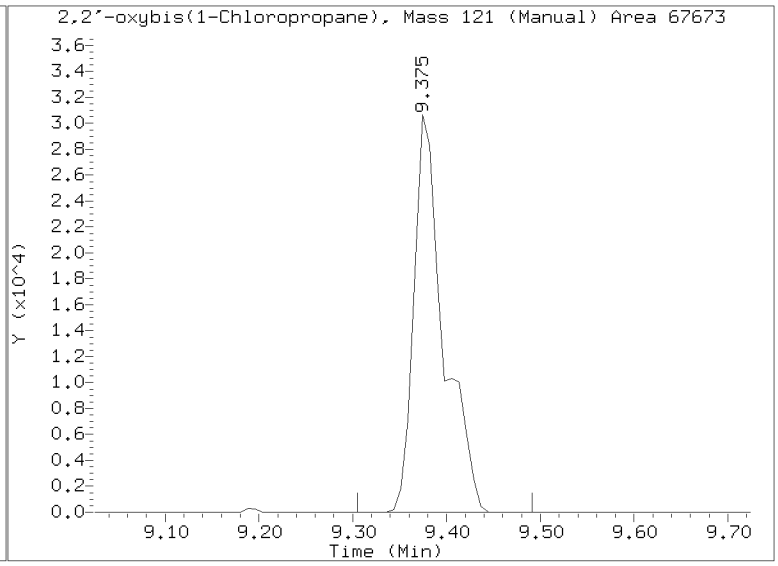
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20210911.b/NT1021091106.D
Injection Date: 11-SEP-2021 13:30
Lab ID:SJI0174-ICV1 Client ID:
Report Date: 09/12/2021 15:16





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210911.b

Instrument: nt10.i Date: 11-SEP-2021 Method: ABN.m

INITIAL CAL: 19-AUG-2021

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1021091106.D 11-SEP-2021 13:30

Compound	%D
Nitrobenzene	22.05
2-Nitrophenol	21.44
4-Chloro-3-methylphenol	27.77
2,4,6-Trichlorophenol	23.28
2,4,5-Trichlorophenol	23.12
2-Nitroaniline	35.45
4-Nitrophenol	48.8
Di-n-butylphthalate	21.51
Fluoranthene	57.14
Butylbenzylphthalate	48.87
Terphenyl-d14	26.48

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021081915.D	Calibration Date:	08/19/2021
Sequence:	SJH0235	Injection Date:	08/19/21
Lab Sample ID:	SJH0235-SCV1	Injection Time:	20:42
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	5.0000	5.3	1.7518100	1.8425500		5.2	+/-20	
bis(2-chloroethyl) ether	A	5.0000	5.8	1.2816900	1.4818030		15.6	+/-20	
2-Chlorophenol	A	5.0000	5.0	1.4536170	1.4634030		0.7	+/-20	
1,3-Dichlorobenzene	A	5.0000	5.2	1.5114380	1.5676000		3.7	+/-20	
1,4-Dichlorobenzene	A	5.0000	5.9	1.1442690	1.3406860		17.2	+/-20	
1,2-Dichlorobenzene	A	5.0000	5.2	1.3022240	1.3543270		4.0	+/-20	
Benzyl Alcohol	A	5.0000	4.9	0.8058147	0.7952407		-1.3	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.7	0.3862240	0.4418774		14.4	+/-20	
2-Methylphenol	A	5.0000	4.7	1.1095740	1.0335020		-6.9	+/-20	
Hexachloroethane	A	5.0000	5.7	0.4948888	0.5616459		13.5	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.3	0.7783317	0.8237689		5.8	+/-20	
4-Methylphenol	A	5.0000	4.7	1.1851760	1.1111390		-6.2	+/-20	
Nitrobenzene	A	5.0000	5.4	0.3861385	0.4172315		8.1	+/-20	
Isophorone	A	5.0000	7.8	0.5967638	0.9282692		55.6	+/-20	*
2-Nitrophenol	A	5.0000	5.2	0.2199064	0.2277143		3.6	+/-20	
2,4-Dimethylphenol	A	5.0000	4.9	0.3393492	0.3339480		-1.6	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	5.9	0.3522827	0.4183503		18.8	+/-20	
2,4-Dichlorophenol	A	5.0000	5.1	0.3477772	0.3579862		2.9	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	5.0	0.3366044	0.3366220		0.005	+/-20	
Naphthalene	A	5.0000	5.1	0.9923411	1.0121480		2.0	+/-20	
Benzoic acid	A	10.000	5.4	0.1282034	0.0927936		-46.2	+/-20	*
4-Chloroaniline	A	5.0000	4.6	0.4807898	0.4416473		-8.1	+/-20	
Hexachlorobutadiene	A	5.0000	5.1	0.1851905	0.1891424		2.1	+/-20	
4-Chloro-3-Methylphenol	A	5.0000	4.9	0.3494710	0.3441993		-1.5	+/-20	
2-Methylnaphthalene	A	5.0000	4.7	0.9469932	0.8944915		-5.5	+/-20	
Hexachlorocyclopentadiene	A	5.0000	4.3	0.2380948	0.2503284		-13.7	+/-20	
2,4,6-Trichlorophenol	A	5.0000	4.8	0.4056237	0.3869967		-4.6	+/-20	
2,4,5-Trichlorophenol	A	5.0000	4.9	0.4261287	0.4188180		-1.7	+/-20	
2-Chloronaphthalene	A	5.0000	5.6	1.2722300	1.4211710		11.7	+/-20	
2-Nitroaniline	A	5.0000	5.0	0.3777549	0.3756680		-0.6	+/-20	
Acenaphthylene	A	5.0000	4.8	1.9823260	1.9013480		-4.1	+/-20	
Dimethylphthalate	A	5.0000	5.0	1.3118930	1.3063800		-0.4	+/-20	
2,6-Dinitrotoluene	A	5.0000	5.4	0.2897240	0.3110774		7.4	+/-20	
Acenaphthene	A	5.0000	5.0	1.0485220	1.0433330		-0.5	+/-20	

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021081915.D	Calibration Date:	08/19/2021
Sequence:	SJH0235	Injection Date:	08/19/21
Lab Sample ID:	SJH0235-SCV1	Injection Time:	20:42
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
3-Nitroaniline	A	5.0000	4.6	0.3901002	0.3559181		-8.8	+/-20	
2,4-Dinitrophenol	A	5.0000	1.7	0.1061965	0.0508240		-66.7	+/-20	*
Dibenzofuran	A	5.0000	4.7	1.8632010	1.7481970		-6.2	+/-20	
4-Nitrophenol	A	5.0000	4.0	0.1112987	0.1137193		-19.6	+/-20	
2,4-Dinitrotoluene	A	5.0000	5.1	0.4044297	0.4130352		2.1	+/-20	
Fluorene	A	5.0000	4.7	1.6536160	1.5619860		-5.5	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	5.2	0.7401715	0.7678004		3.7	+/-20	
Diethyl phthalate	A	5.0000	5.1	1.1825010	1.2052110		1.9	+/-20	
4-Nitroaniline	A	5.0000	4.8	0.4056112	0.3884184		-4.2	+/-20	
4,6-Dinitro-2-methylphenol	A	5.0000	3.9	0.1305331	0.1284209		-22.3	+/-20	*
N-Nitrosodiphenylamine	A	5.0000	4.8	0.5982903	0.5785221		-3.3	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	5.4	0.2398092	0.2589276		8.0	+/-20	
Hexachlorobenzene	A	5.0000	5.1	0.2273318	0.2302142		1.3	+/-20	
Pentachlorophenol	A	5.0000	3.1	0.0665517	0.0523671		-37.6	+/-20	*
Phenanthrene	A	5.0000	4.9	0.9765836	0.9482508		-2.9	+/-20	
Anthracene	A	5.0000	4.8	1.0492630	1.0100620		-3.7	+/-20	
Carbazole	A	5.0000	5.0	1.0806490	1.0744900		-0.6	+/-20	
Di-n-Butylphthalate	A	5.0000	5.4	1.3369240	1.4372330		7.5	+/-20	
Fluoranthene	A	5.0000	4.9	1.7509030	1.6994430		-2.9	+/-20	
Pyrene	A	5.0000	4.9	1.7970040	1.7472660		-2.8	+/-20	
Butylbenzylphthalate	A	5.0000	4.9	0.7072339	0.6915119		-2.2	+/-20	
Benzo(a)anthracene	A	5.0000	4.8	1.3974370	1.3414470		-4.0	+/-20	
3,3'-Dichlorobenzidine	A	10.000	8.8	0.5559834	0.4909168		-11.7	+/-20	
Chrysene	A	5.0000	4.7	1.1078500	1.0384150		-6.3	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.4	0.3849599	0.4128043		7.2	+/-20	
Di-n-Octylphthalate	A	5.0000	5.2	0.8815966	0.9217378		4.6	+/-20	
Benzofluoranthenes, Total	A	10.000	10.0	1.4039640	1.3982730		-0.4	+/-20	
Benzo(a)pyrene	A	5.0000	5.0	1.2999960	1.2946730		-0.4	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.3429560	1.3040070		-2.9	+/-20	
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.0274450	0.9940600		-3.2	+/-20	
Benzo(g,h,i)perylene	A	5.0000	4.9	1.1727930	1.1547680		-1.5	+/-20	
1-Methylnaphthalene	A	5.0000	4.8	0.9134377	0.8795858		-3.7	+/-20	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Page 1

Date : 19-AUG-2021 20:42

Client ID:

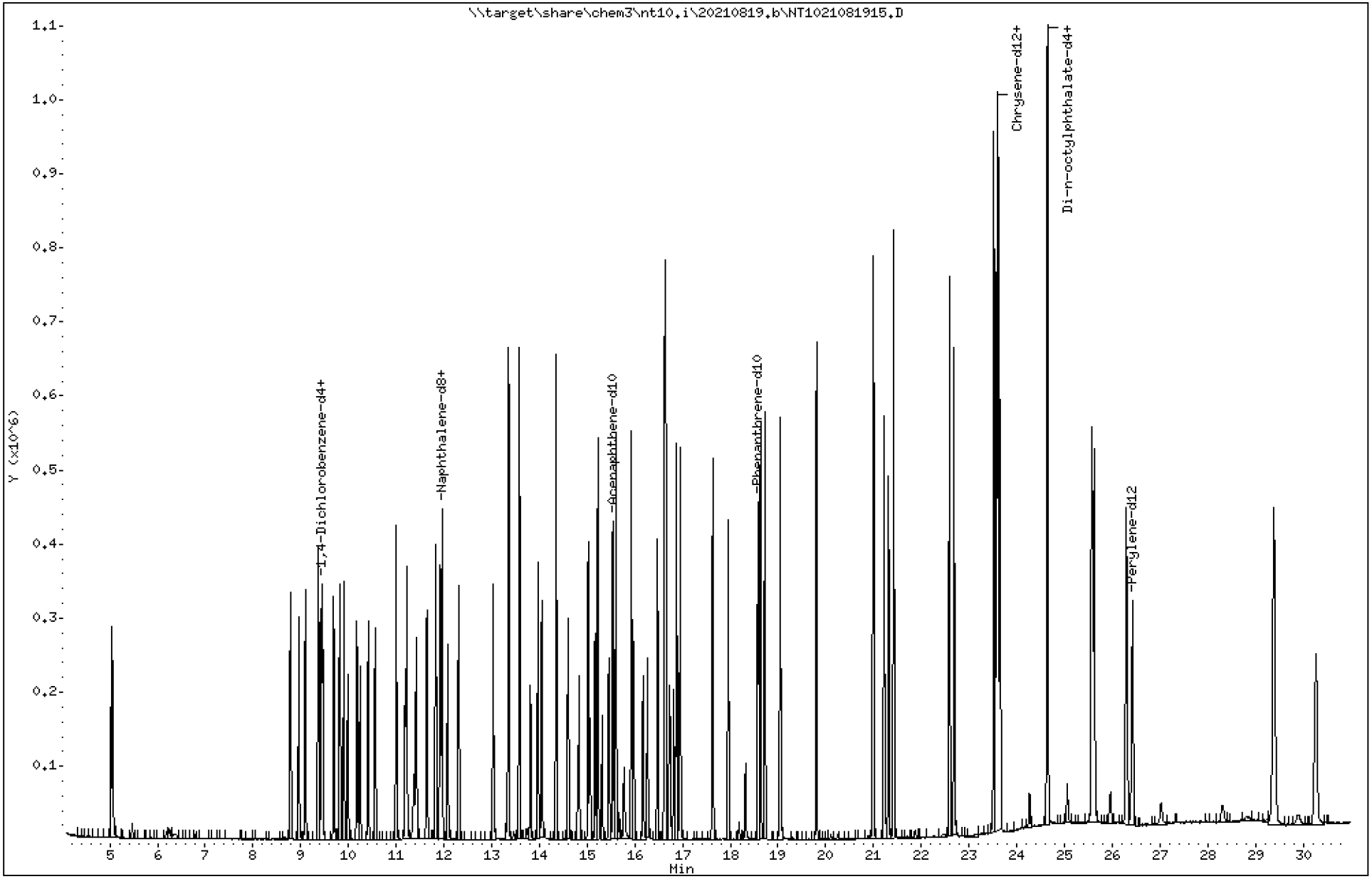
Instrument: nt10.i

Sample Info: SJH0235-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

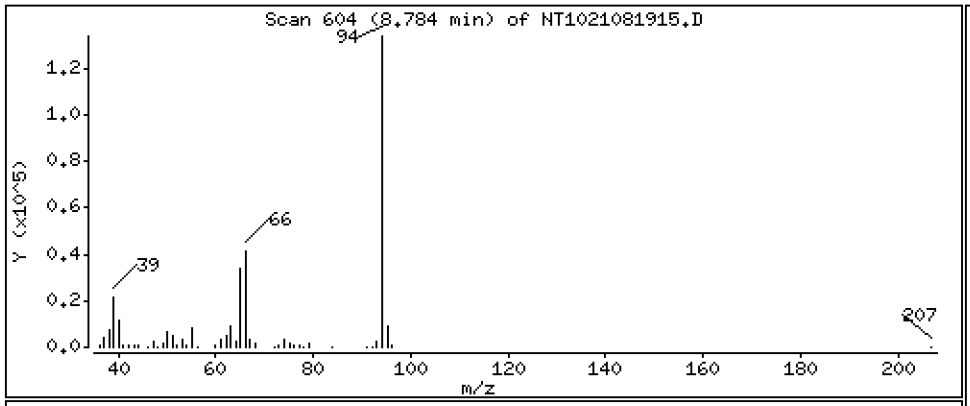
Operator: VTS

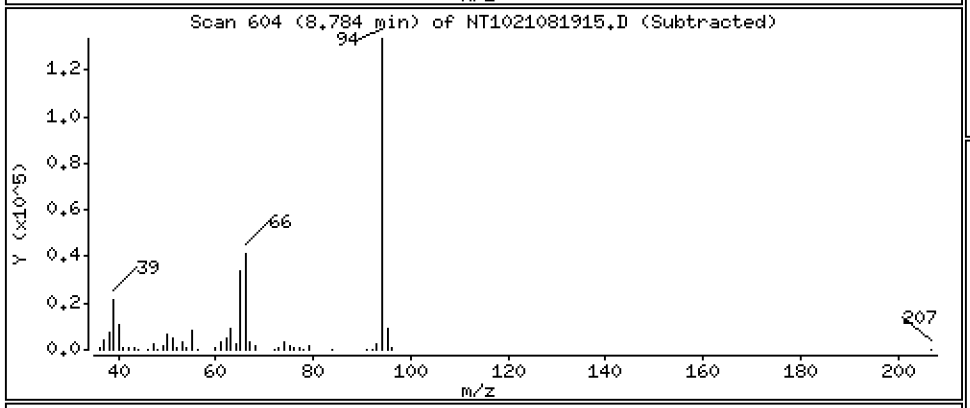
Column phase: ZB-5msi

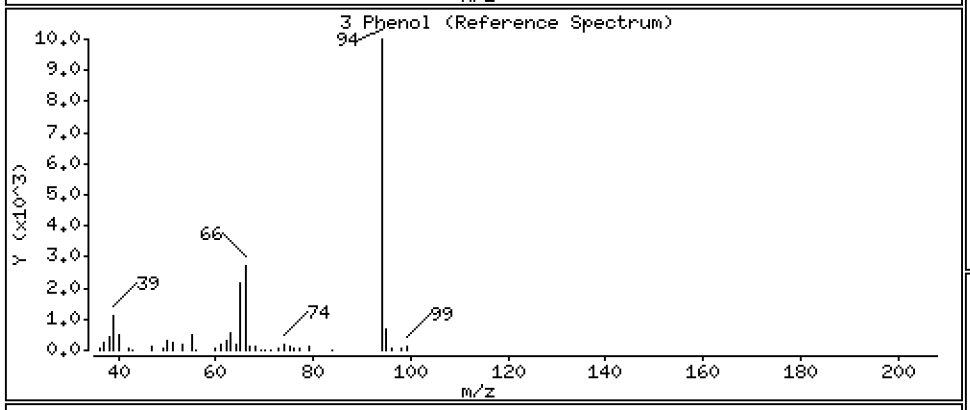
Column diameter: 0.25

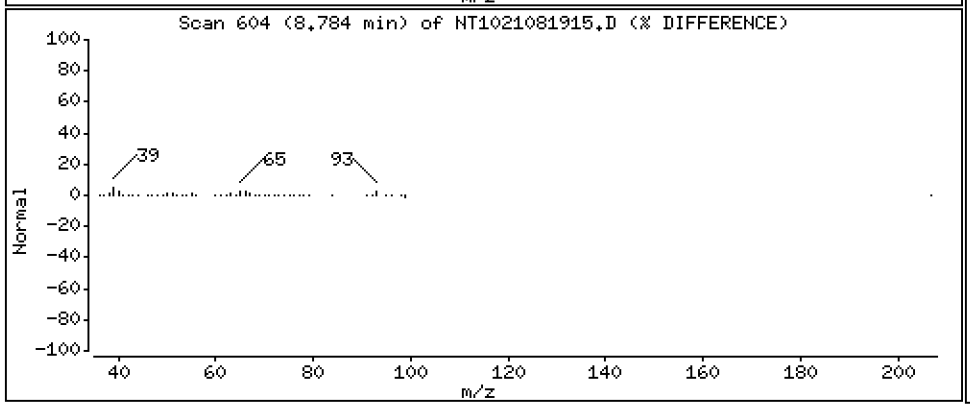
3 Phenol

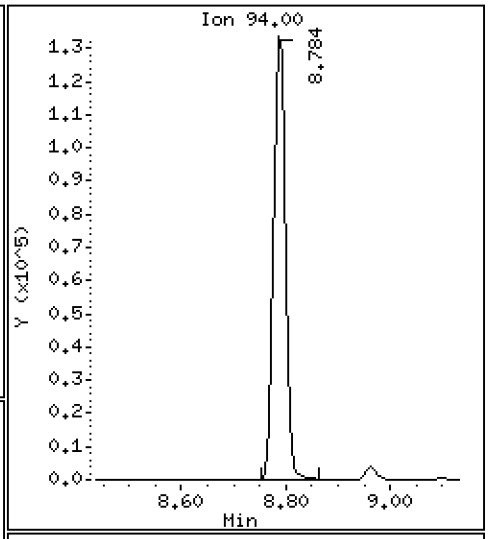
Concentration: 5.259 ug/mL

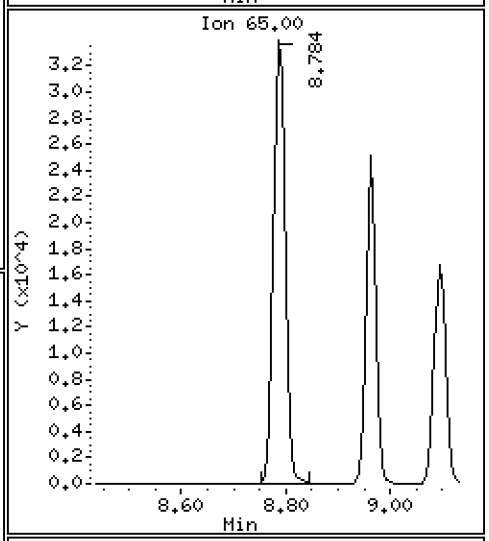


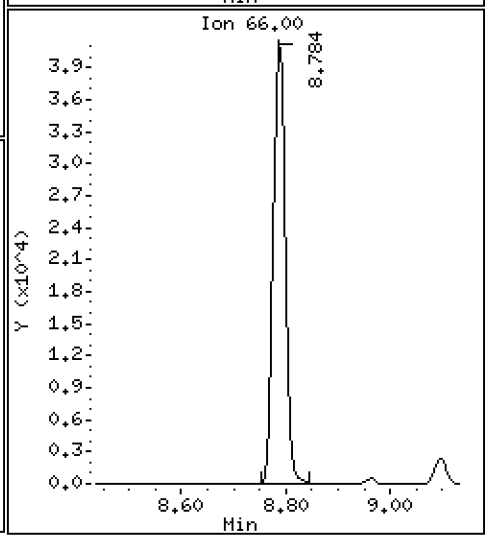












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

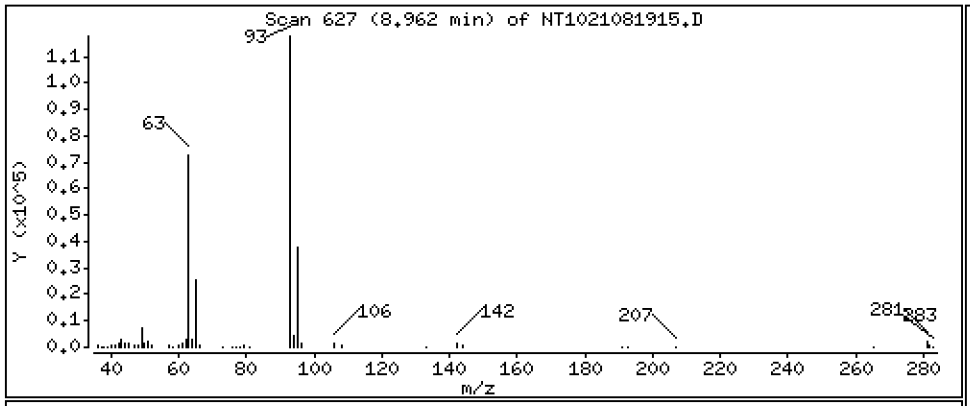
Operator: VTS

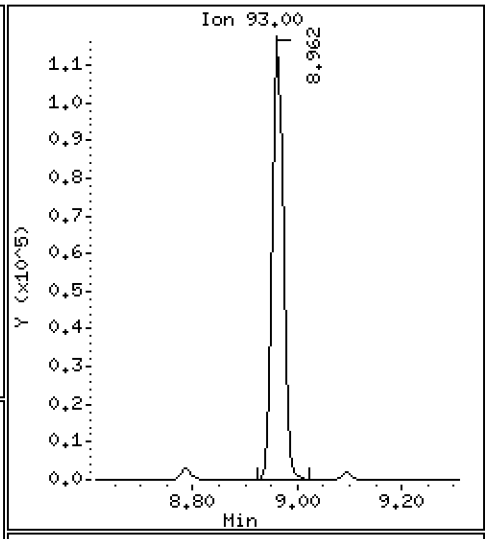
Column phase: ZB-5msi

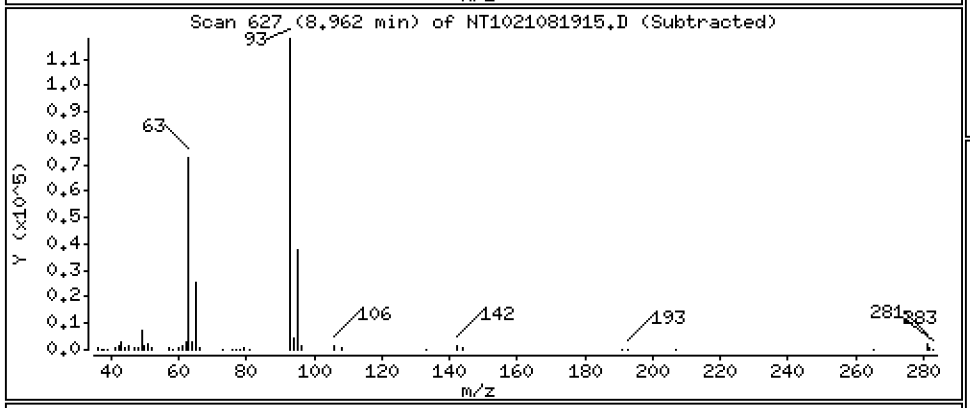
Column diameter: 0.25

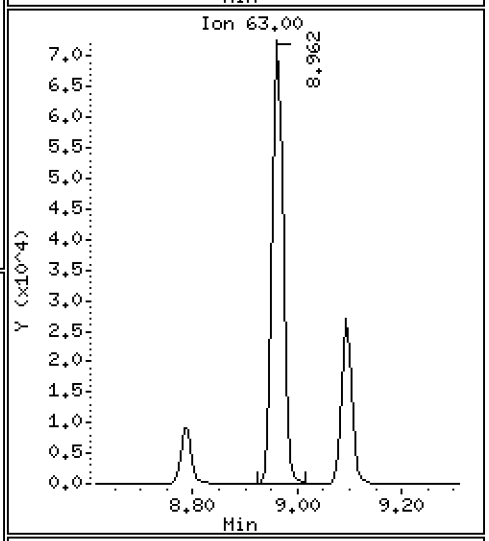
4 Bis(2-Chloroethyl)ether

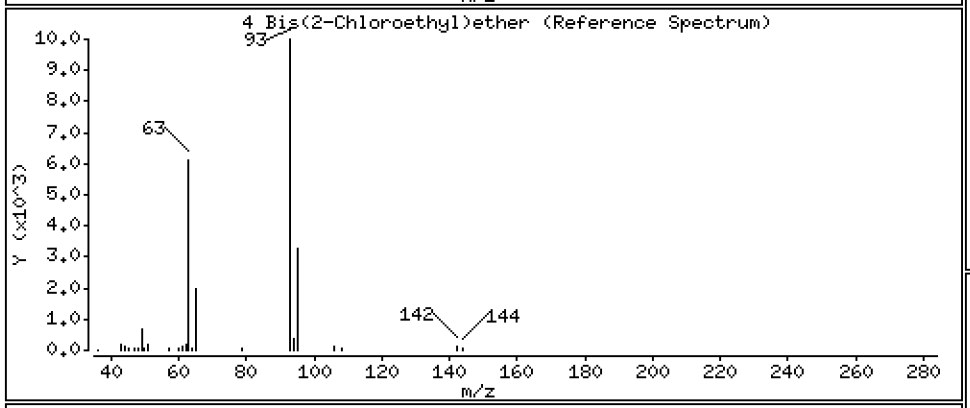
Concentration: 5.781 ug/mL

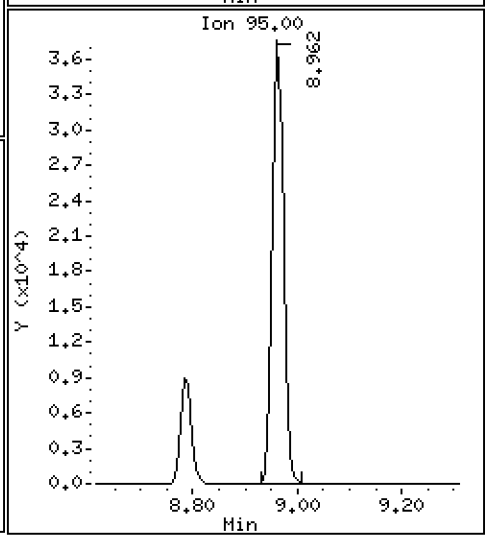


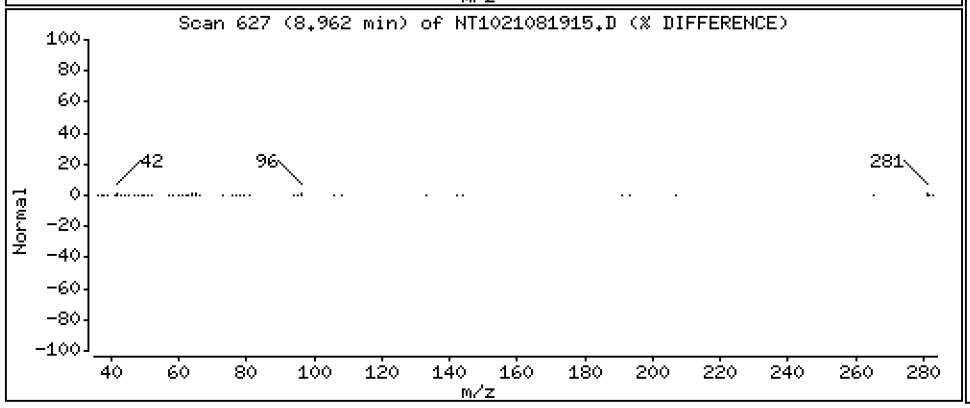












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

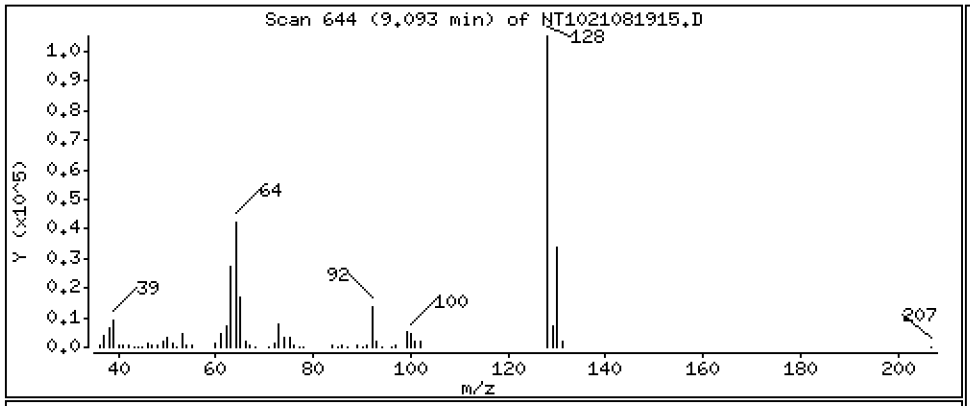
Operator: VTS

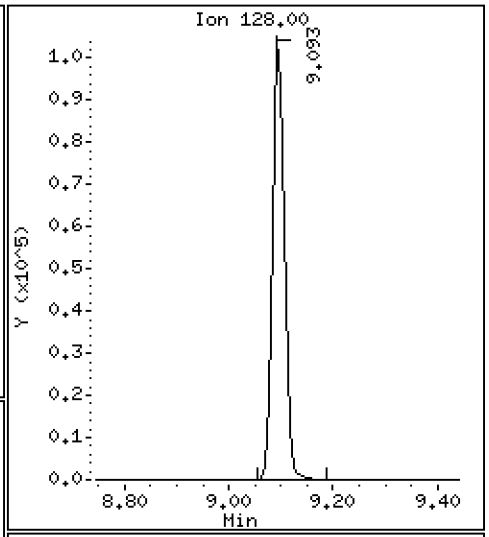
Column phase: ZB-5msi

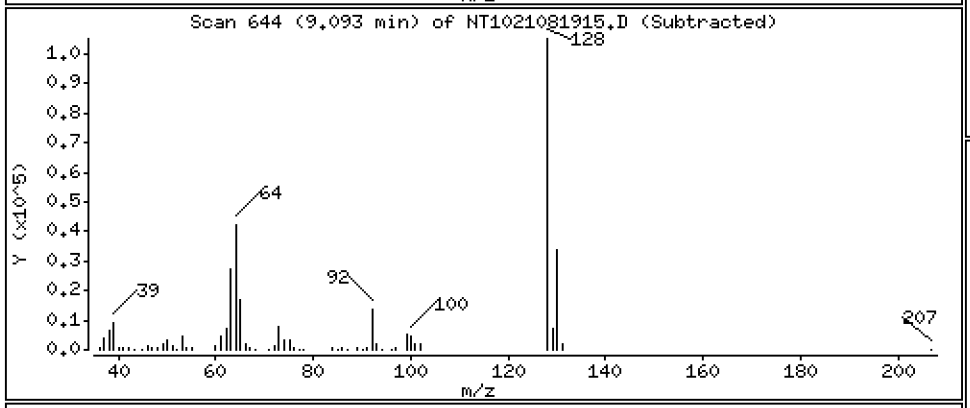
Column diameter: 0.25

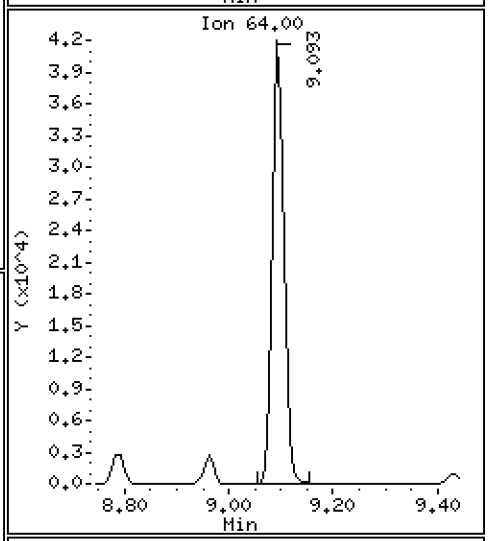
6 2-Chlorophenol

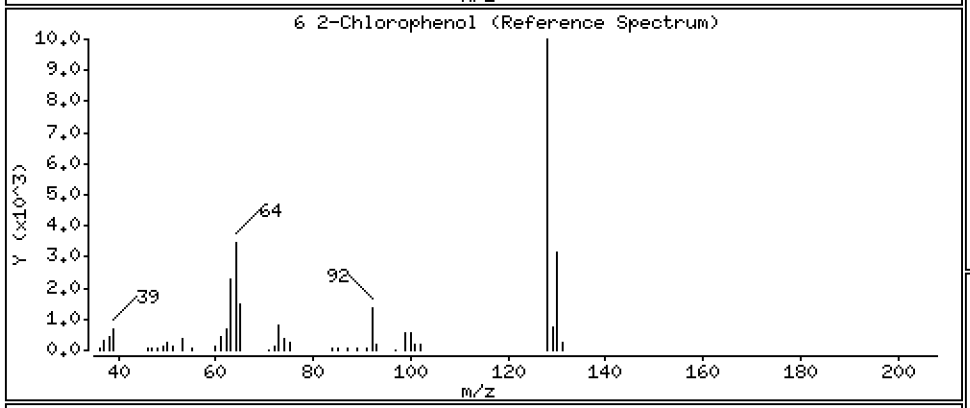
Concentration: 5.034 ug/mL

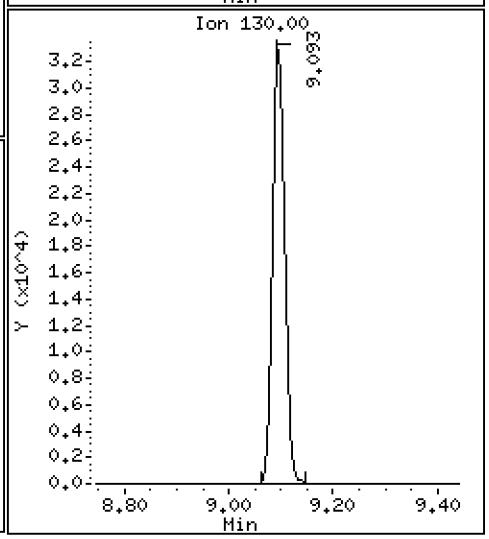


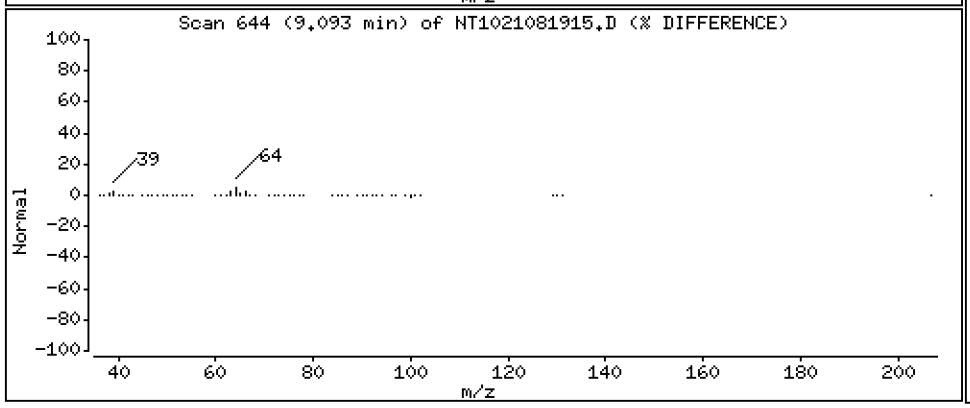












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

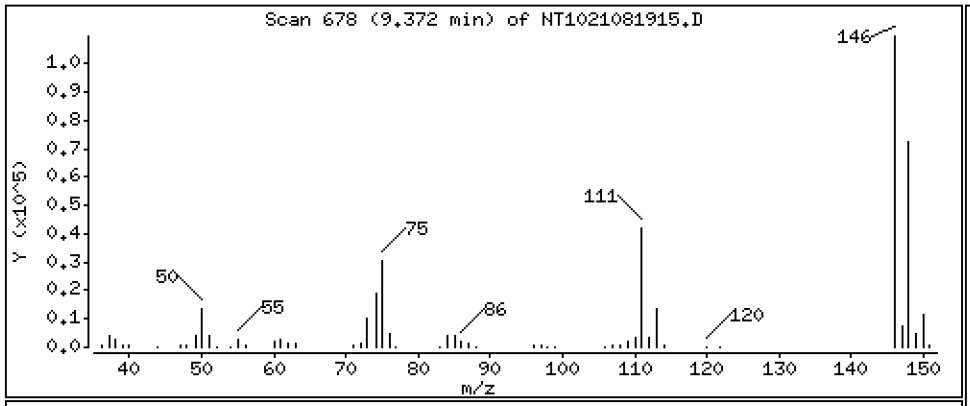
Operator: VTS

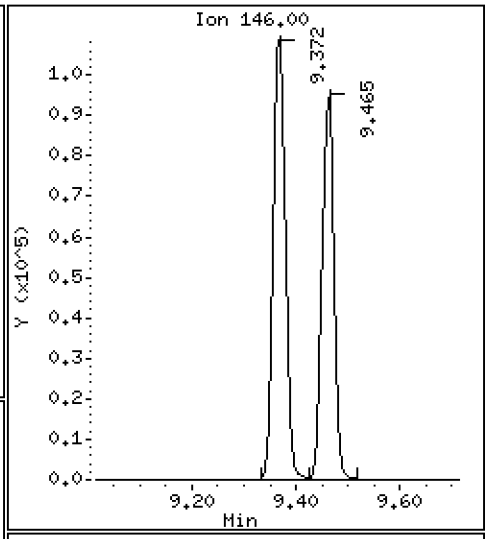
Column phase: ZB-5msi

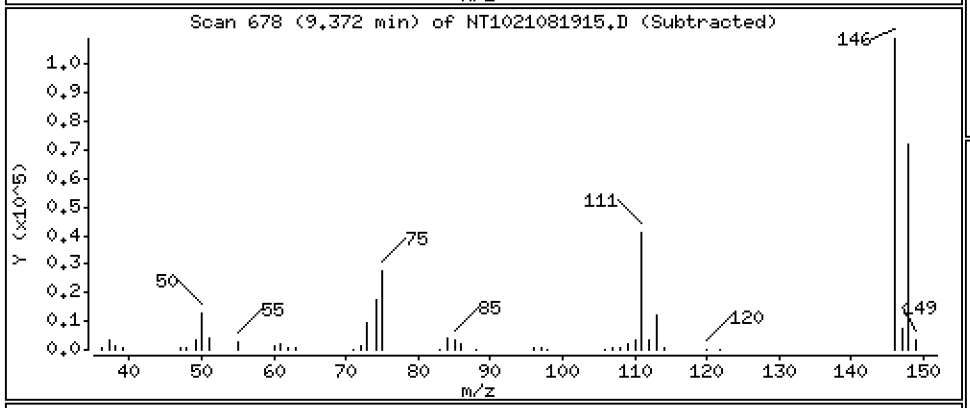
Column diameter: 0.25

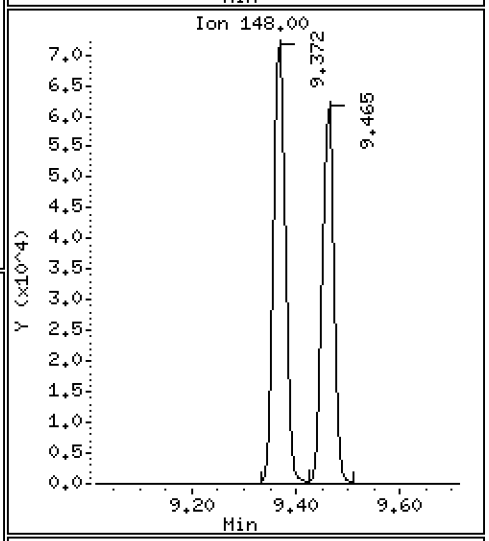
7 1,3-Dichlorobenzene

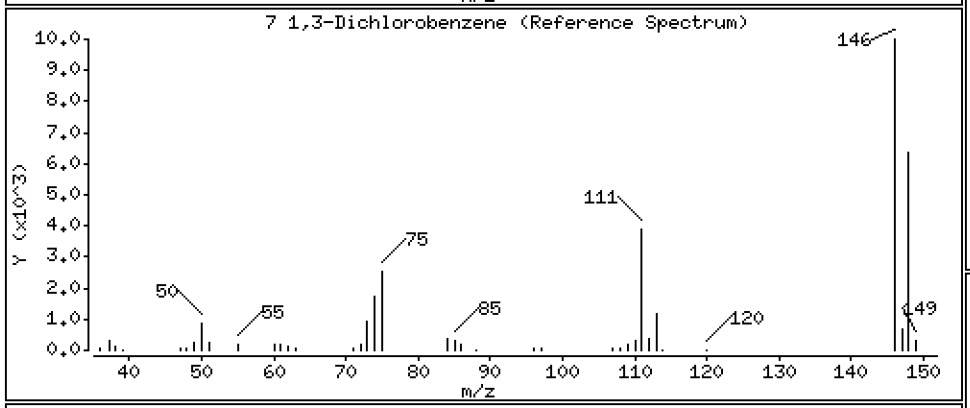
Concentration: 5.186 ug/mL

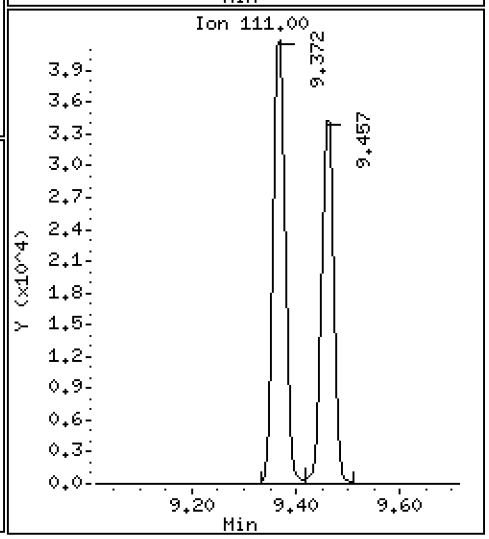


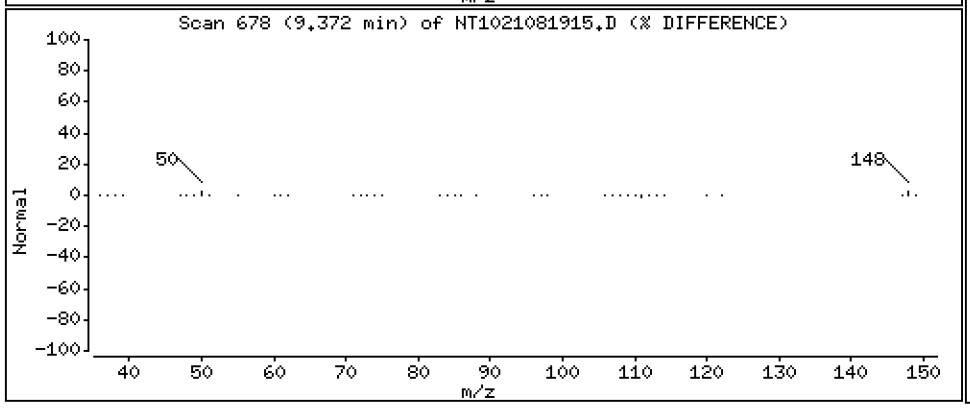












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

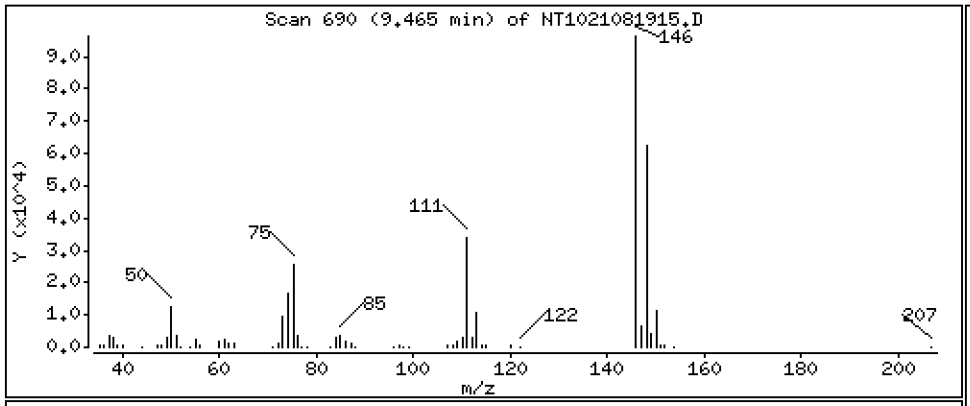
Operator: VTS

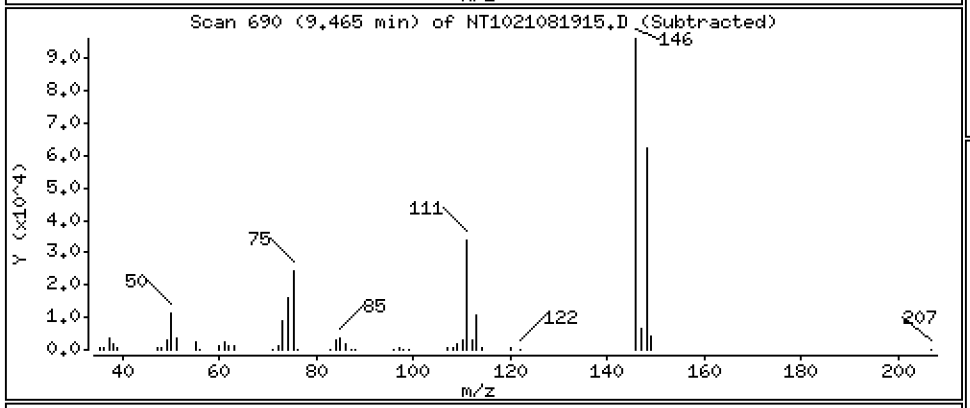
Column phase: ZB-5msi

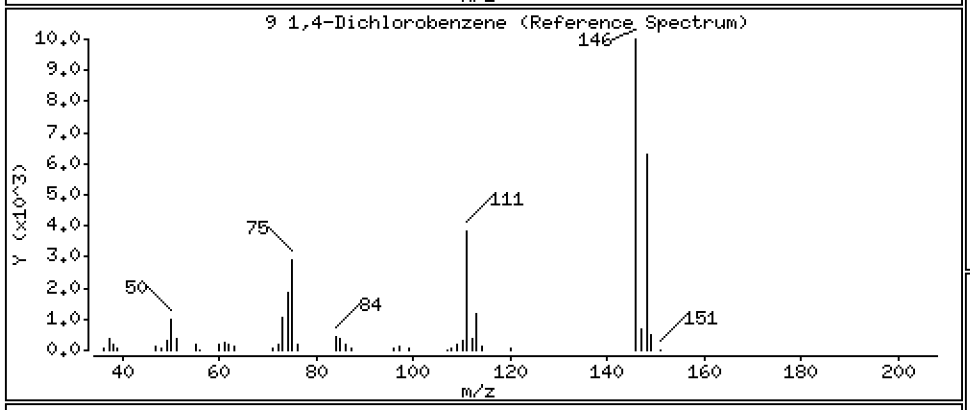
Column diameter: 0.25

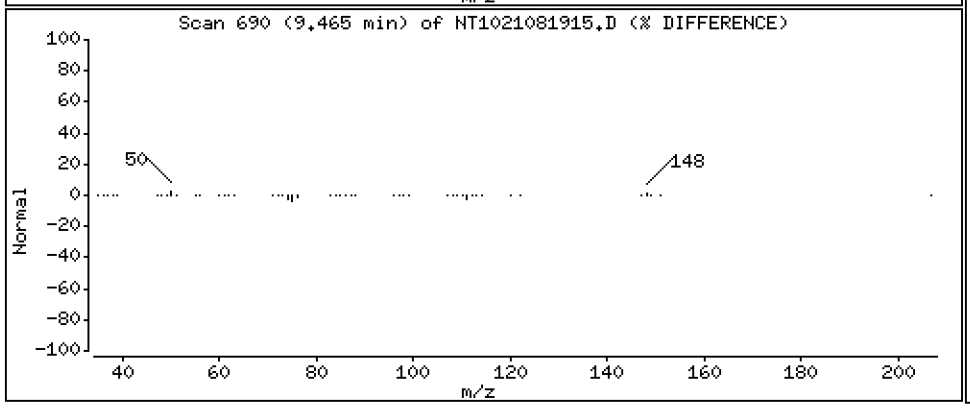
9 1,4-Dichlorobenzene

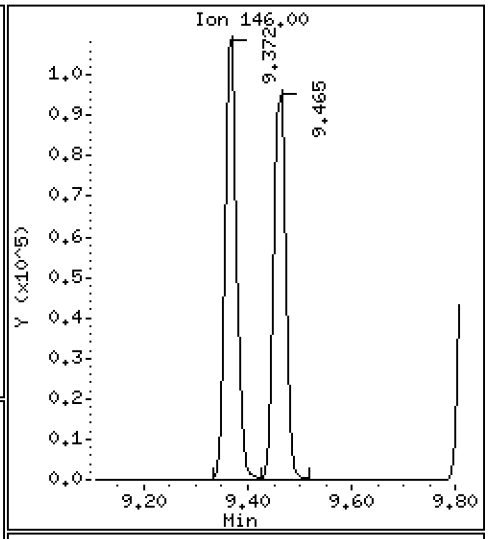
Concentration: 5.858 ug/mL

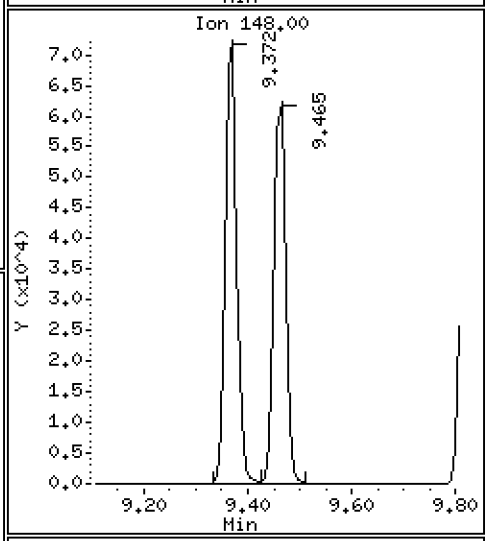


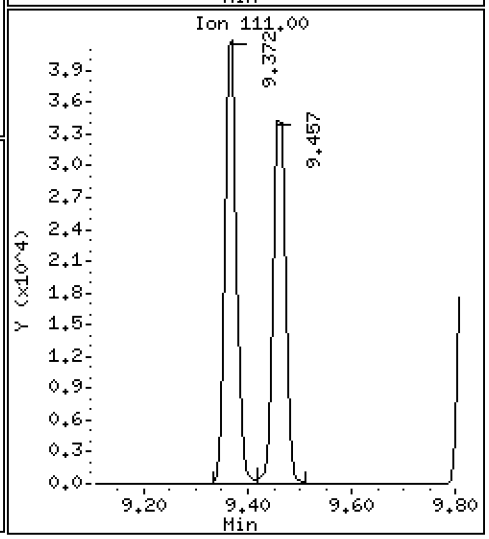












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

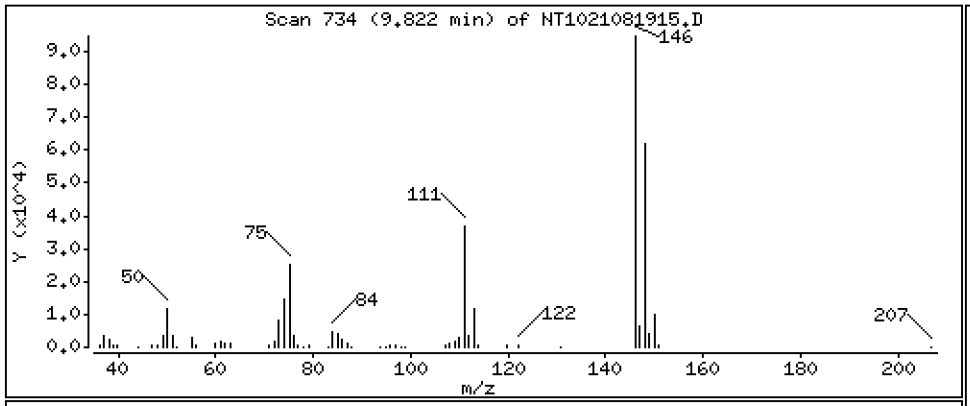
Operator: VTS

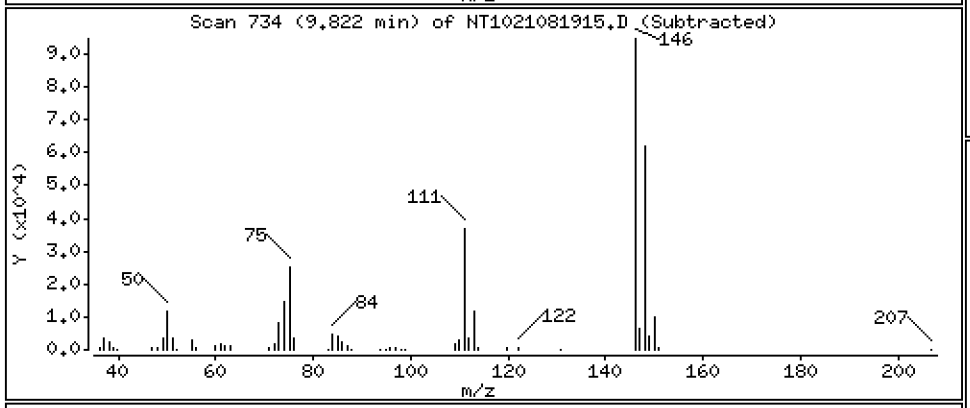
Column phase: ZB-5msi

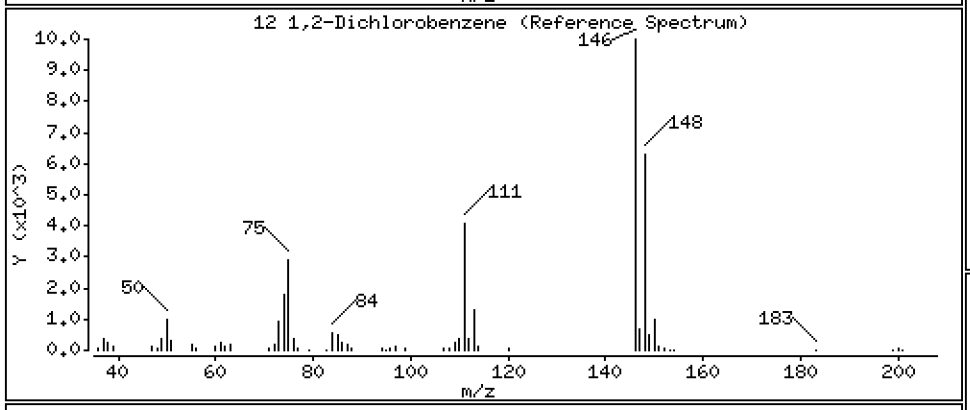
Column diameter: 0.25

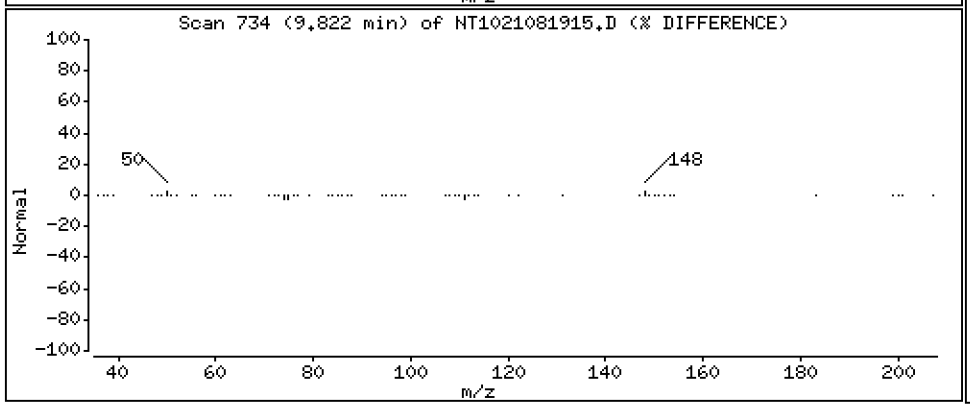
12 1,2-Dichlorobenzene

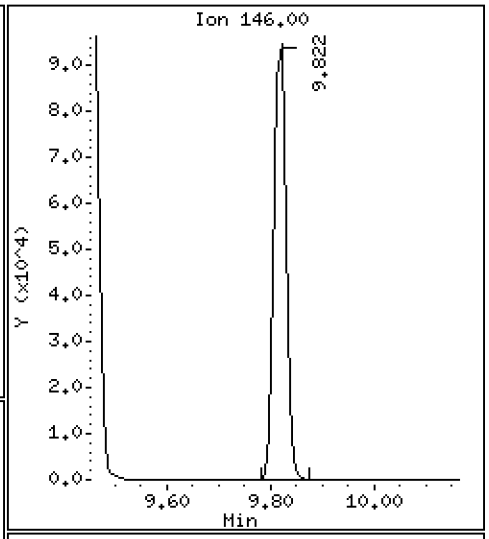
Concentration: 5.200 ug/mL

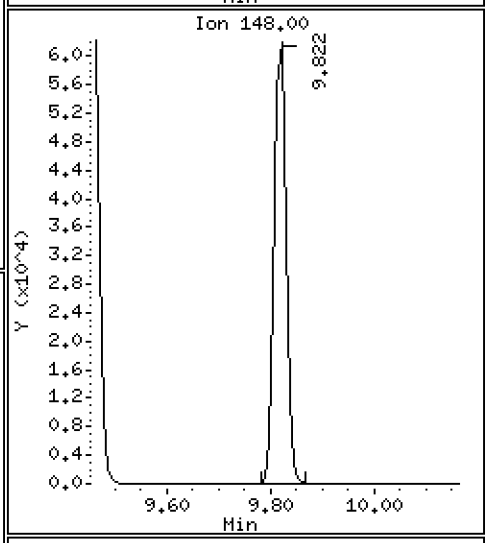


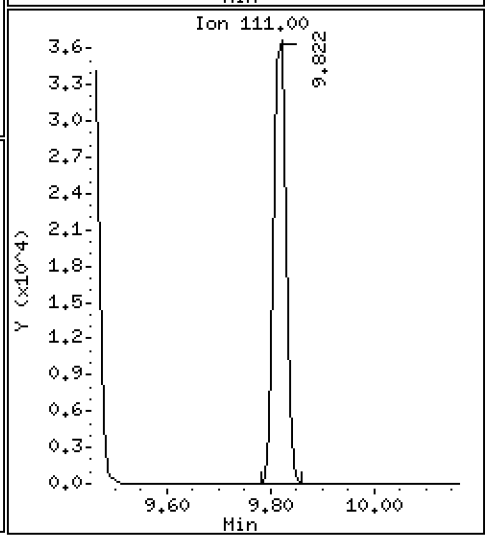












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

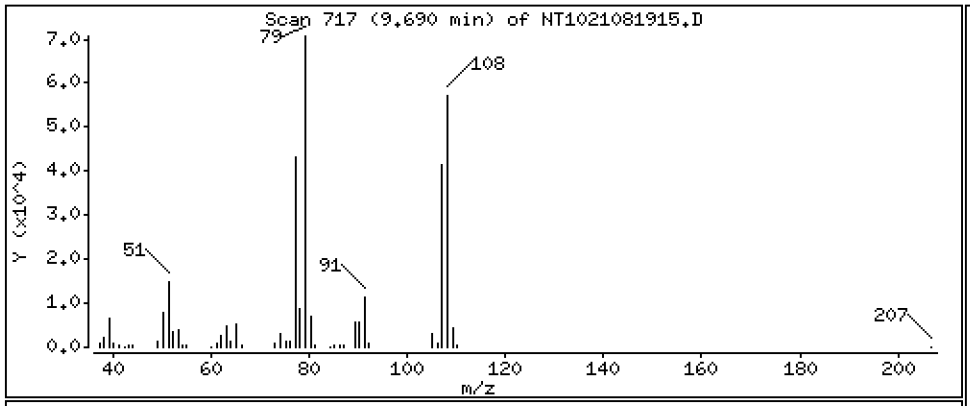
Operator: VTS

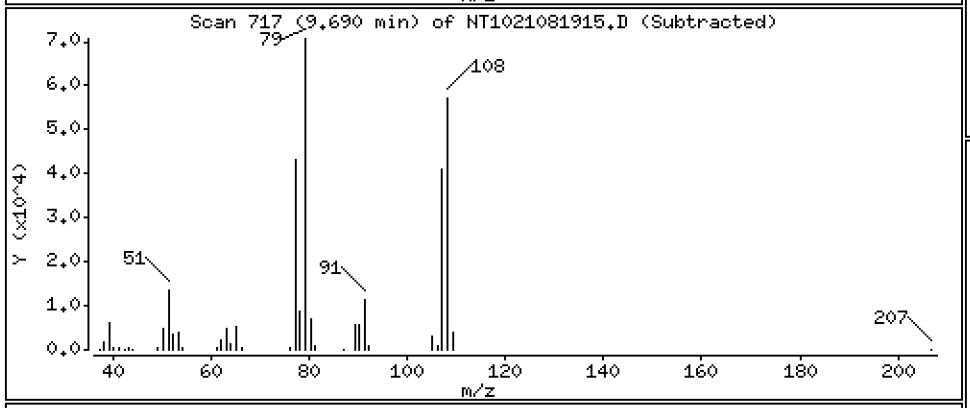
Column phase: ZB-5msi

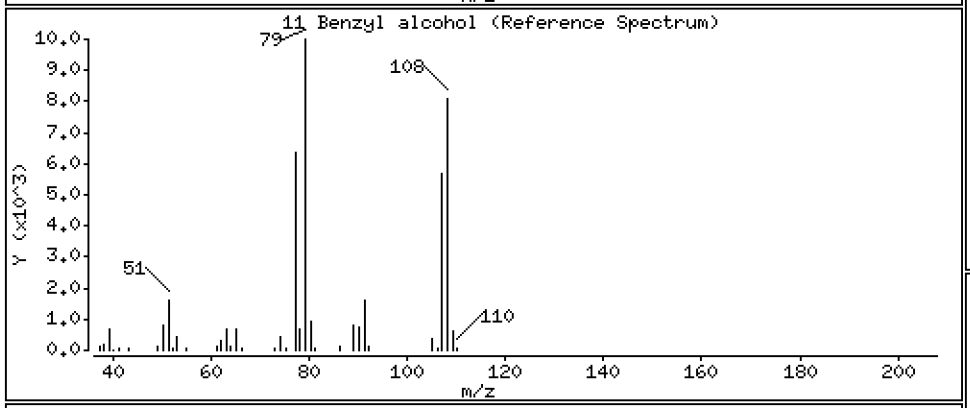
Column diameter: 0.25

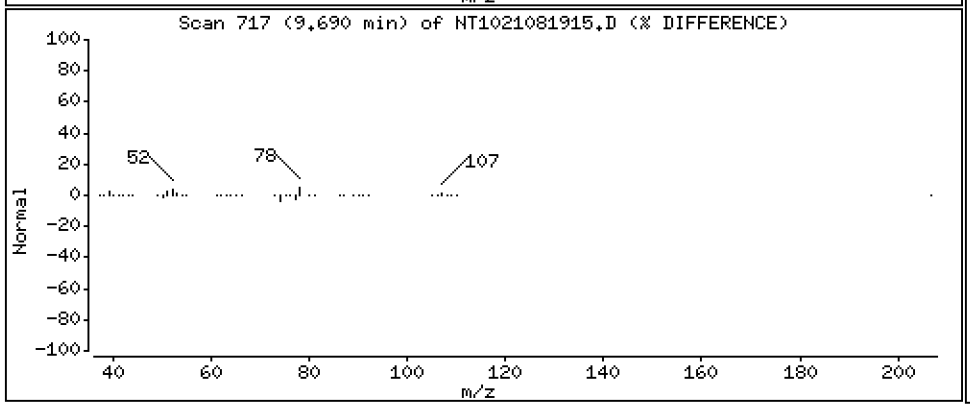
11 Benzyl alcohol

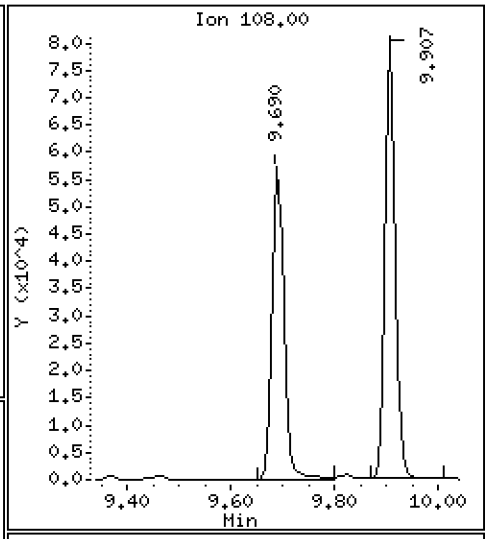
Concentration: 4.934 ug/mL

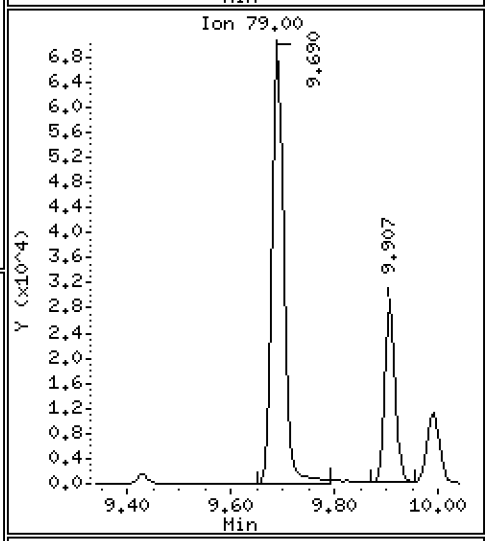


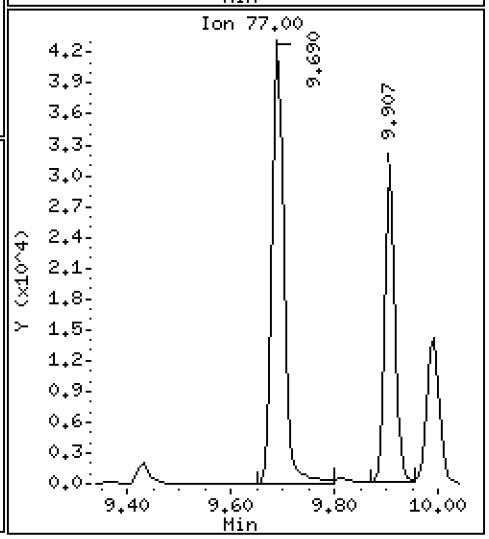












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

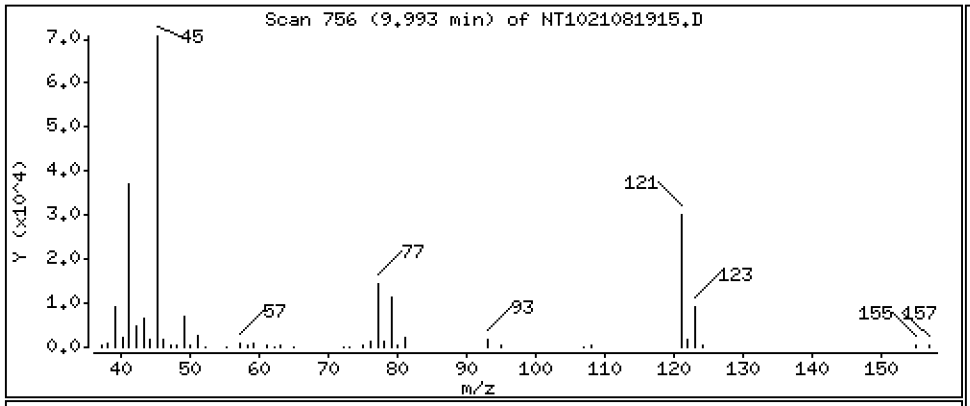
Operator: VTS

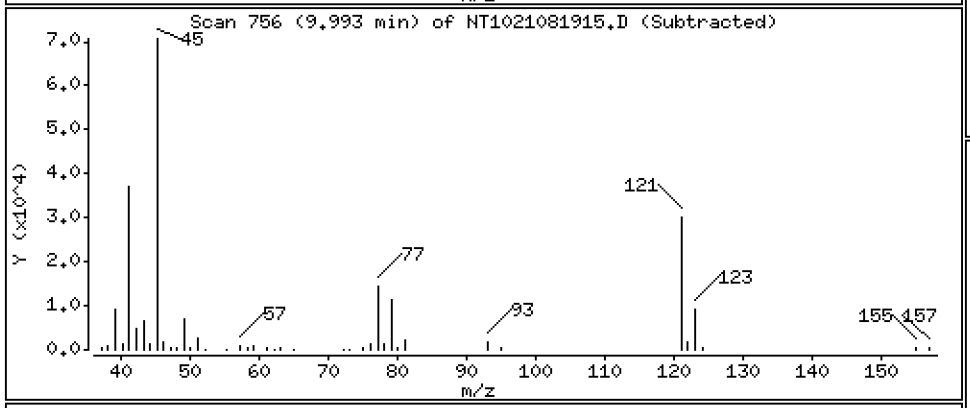
Column phase: ZB-5msi

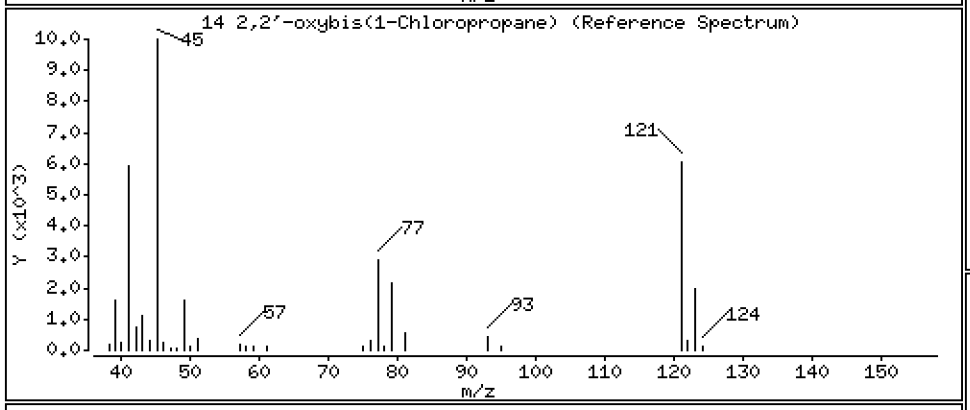
Column diameter: 0.25

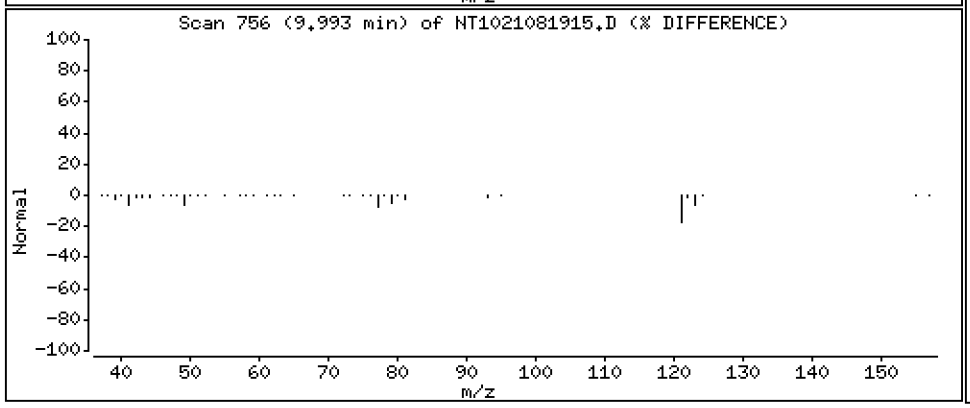
14 2,2'-oxybis(1-Chloropropane)

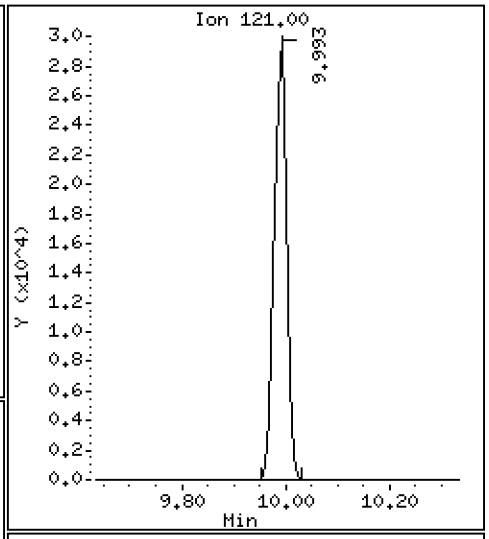
Concentration: 5.720 ug/mL

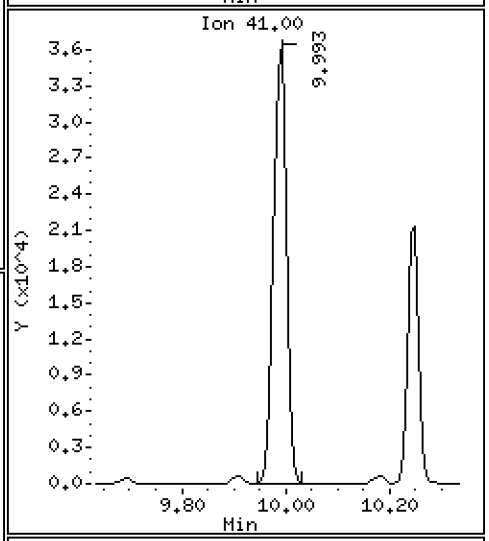


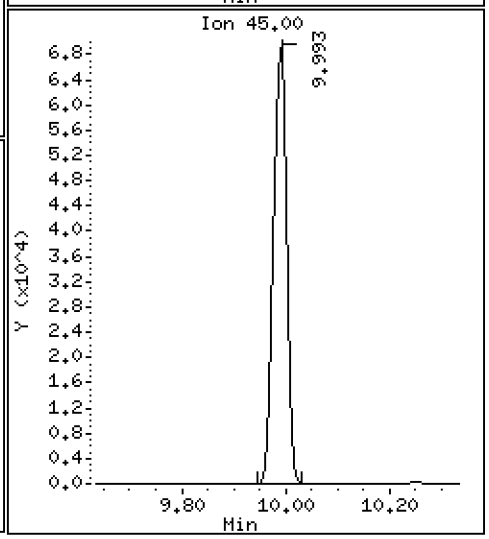












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

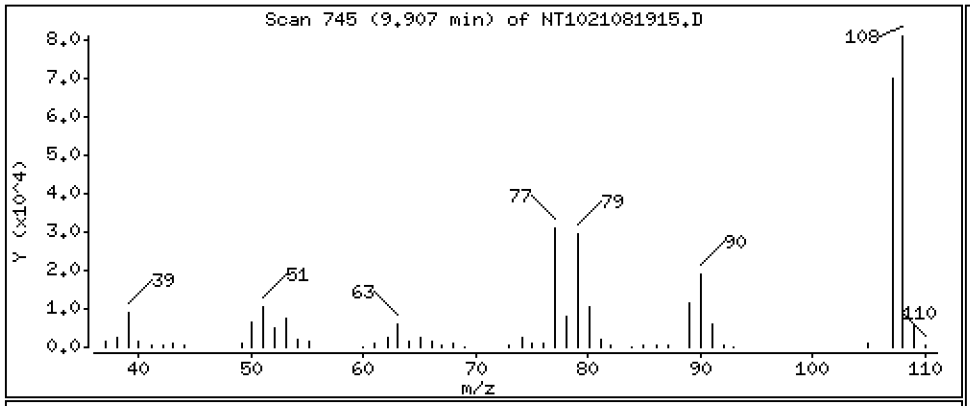
Operator: VTS

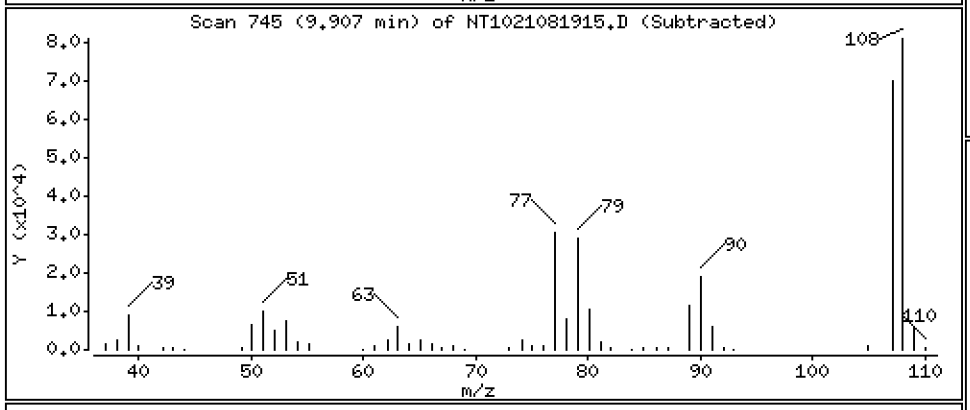
Column phase: ZB-5msi

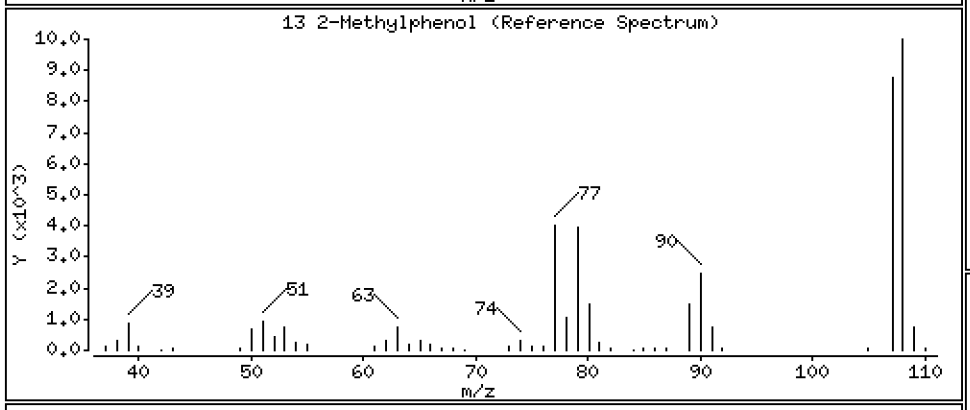
Column diameter: 0.25

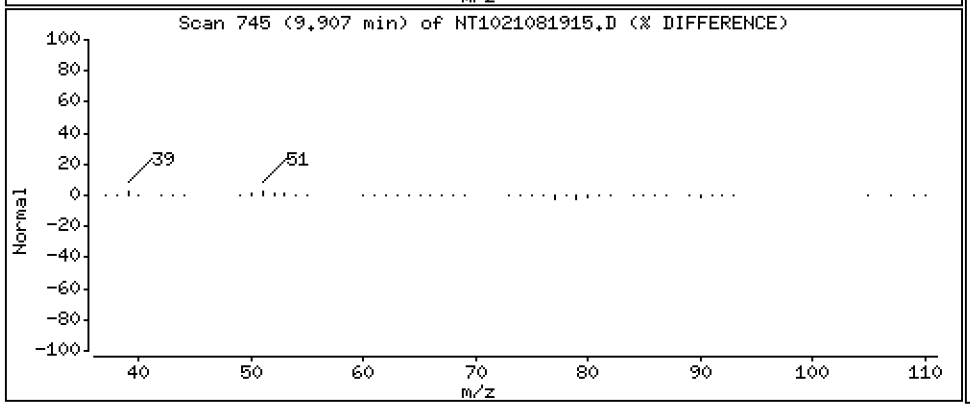
13 2-Methylphenol

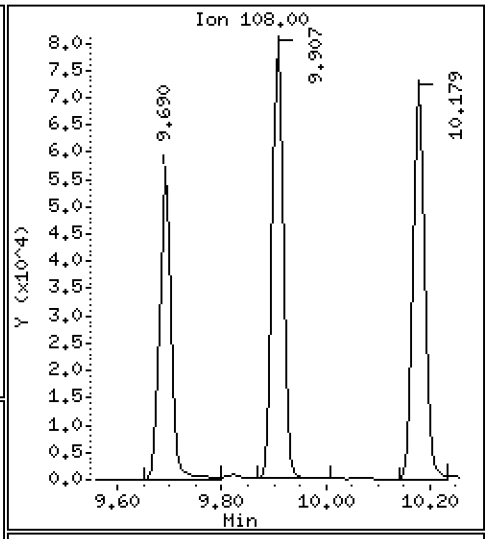
Concentration: 4.657 ug/mL

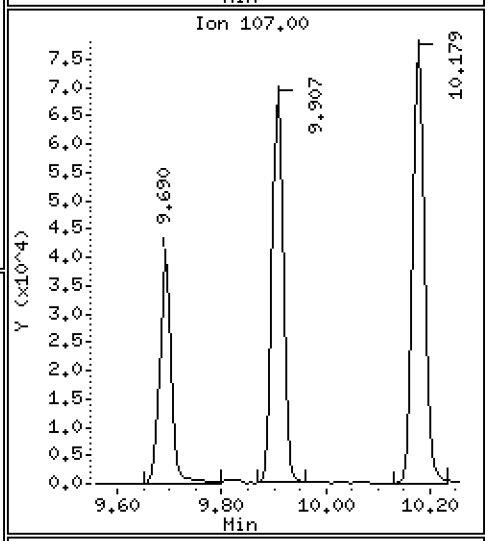


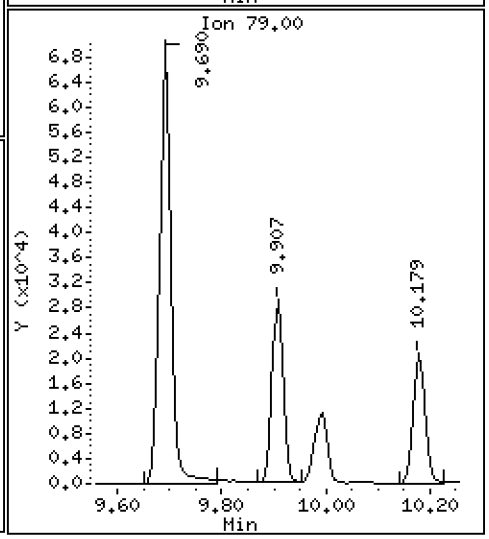












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

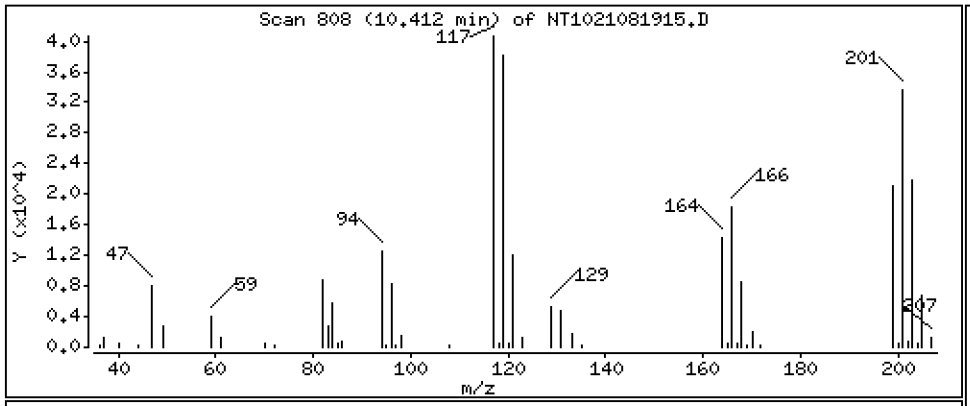
Operator: VTS

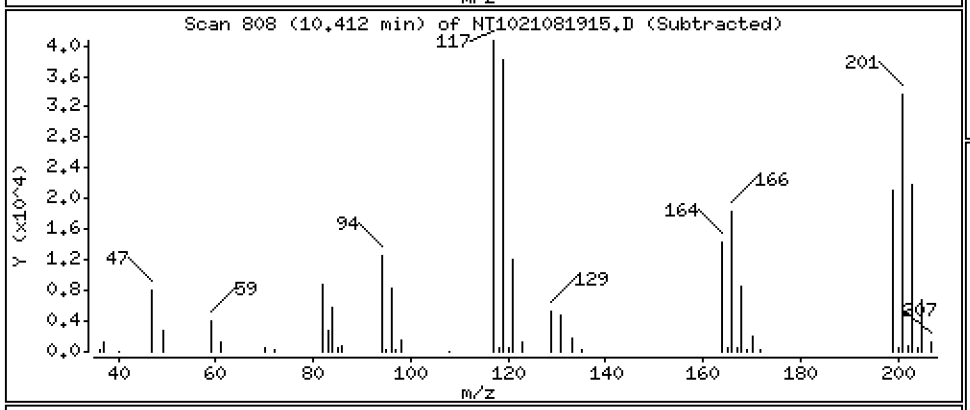
Column phase: ZB-5msi

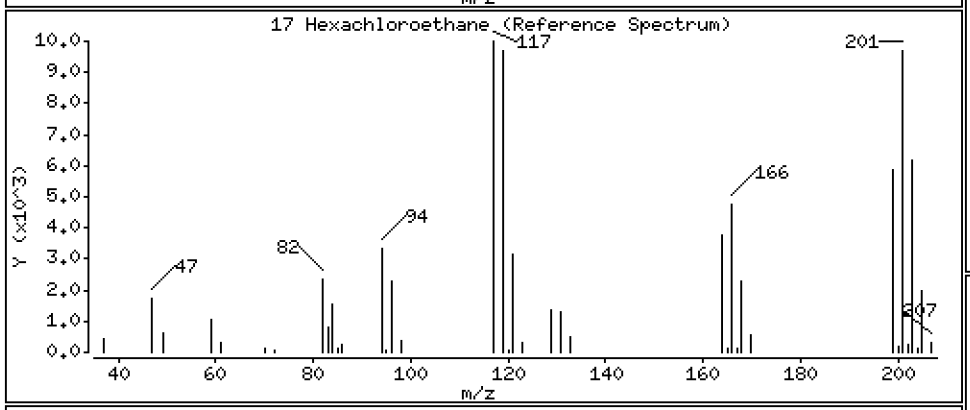
Column diameter: 0.25

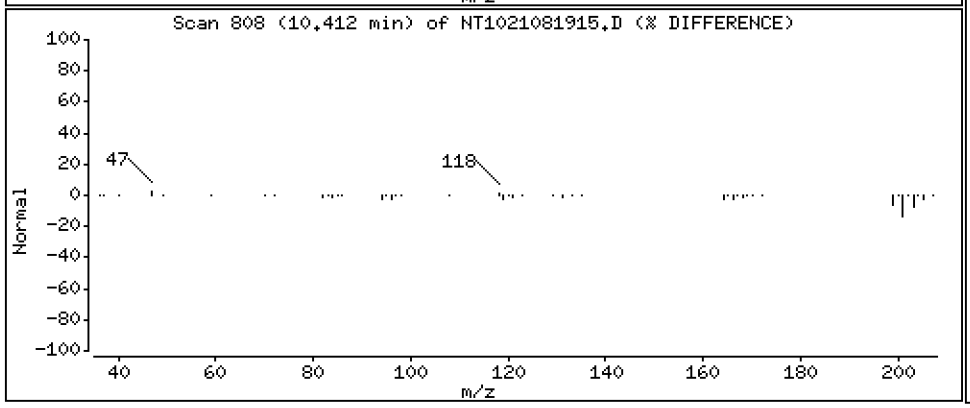
17 Hexachloroethane

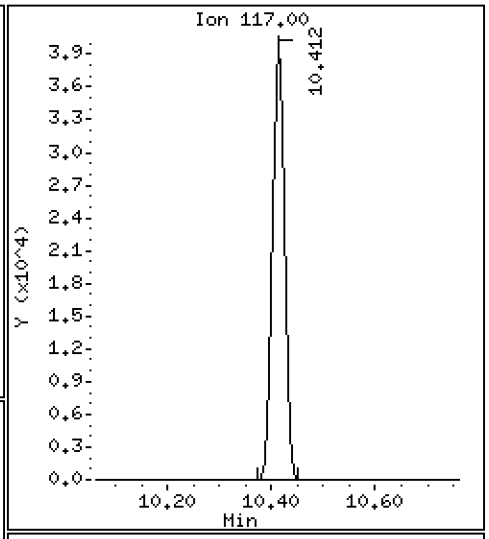
Concentration: 5.674 ug/mL

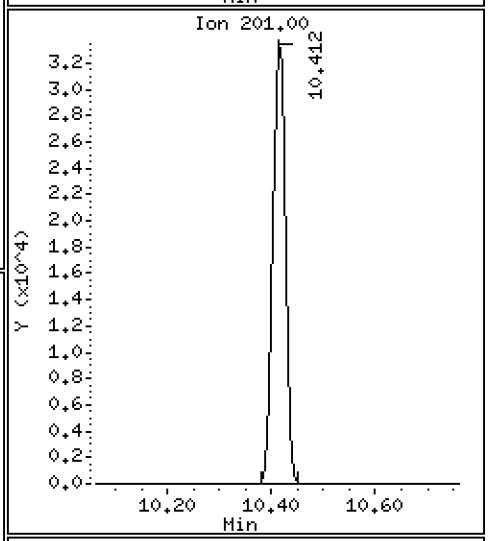


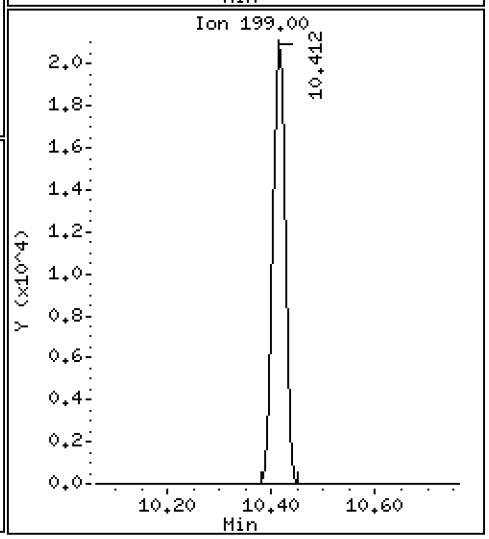












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

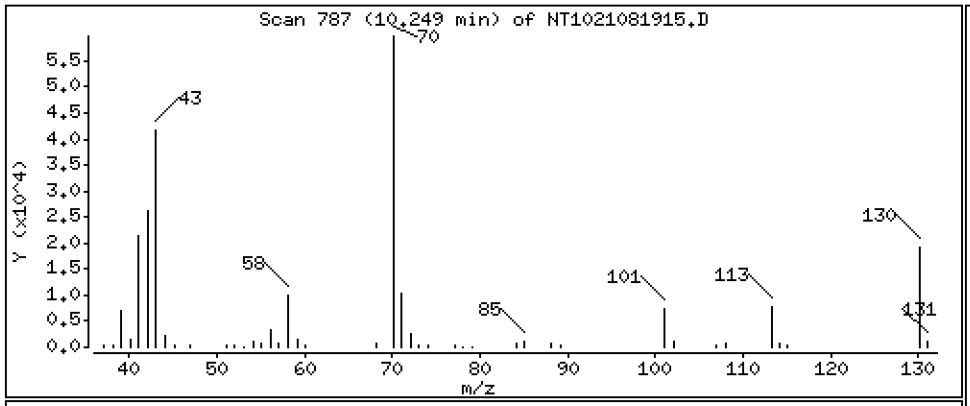
Operator: VTS

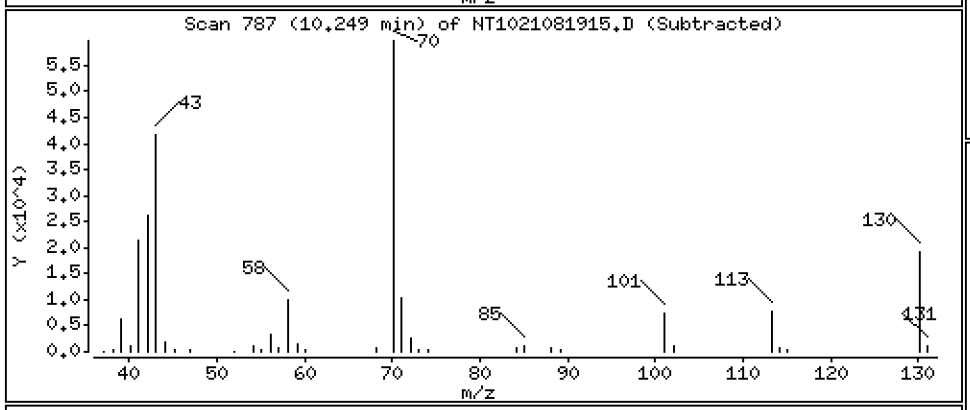
Column phase: ZB-5msi

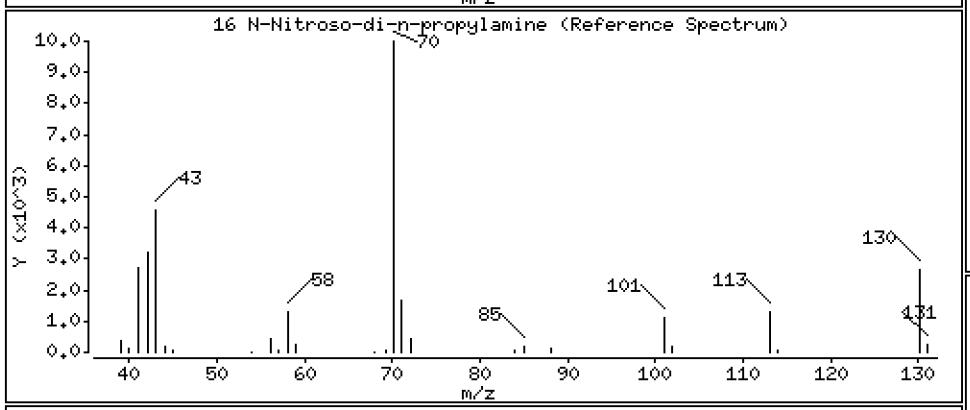
Column diameter: 0.25

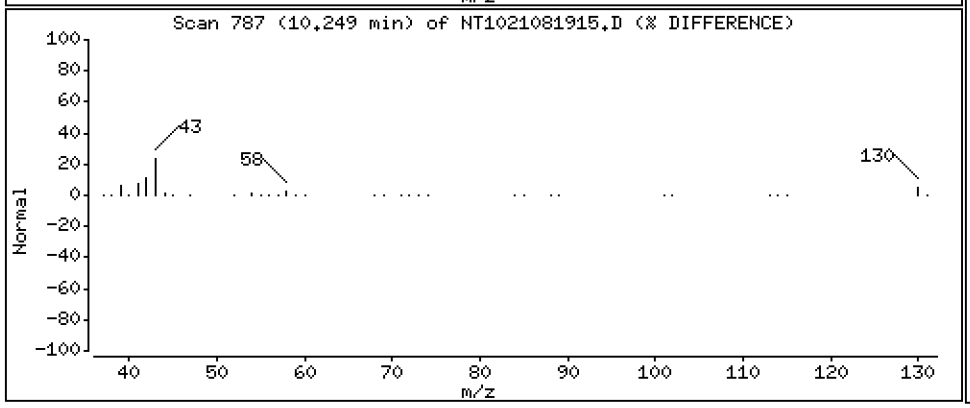
16 N-Nitroso-di-n-propylamine

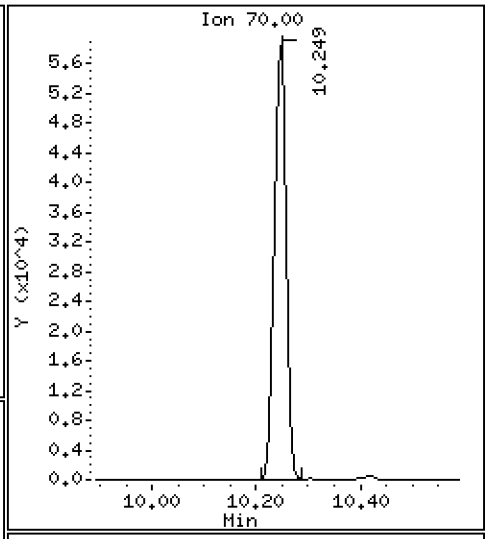
Concentration: 5.292 ug/mL

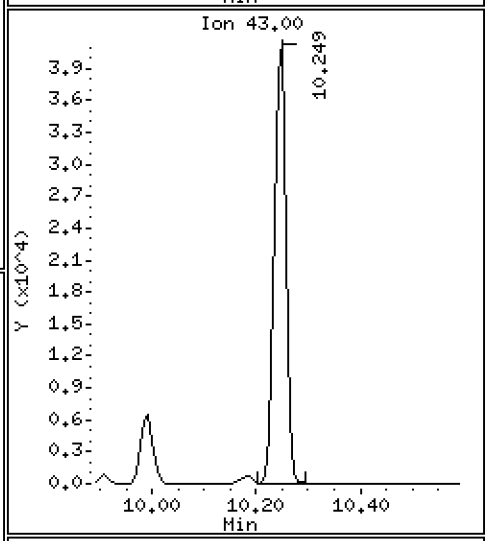


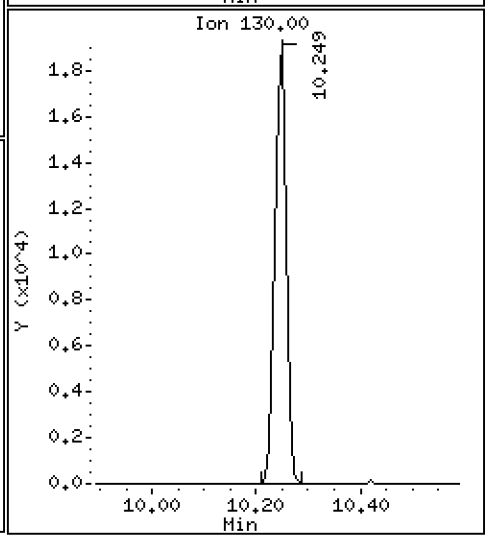












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

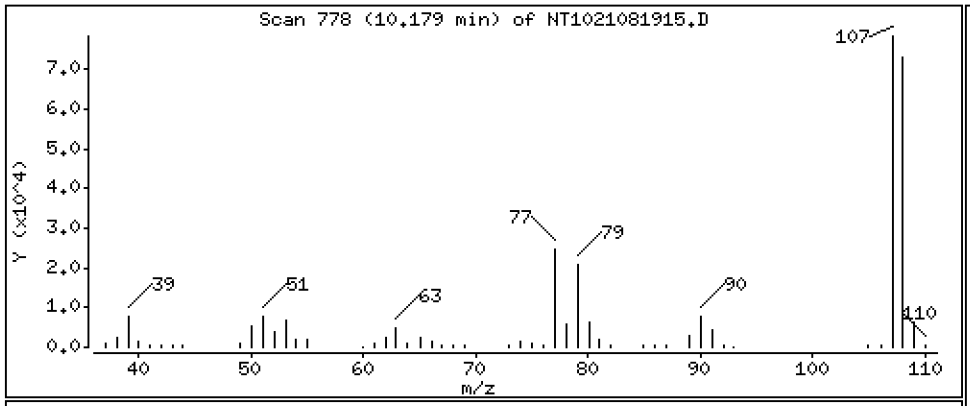
Operator: VTS

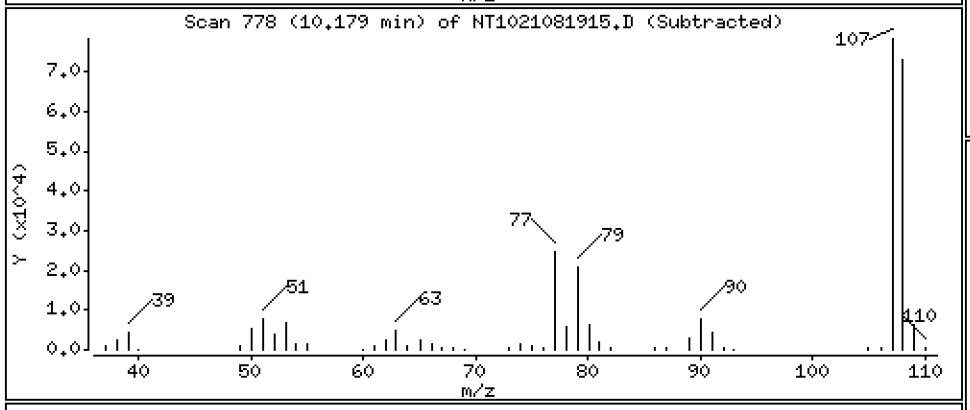
Column phase: ZB-5msi

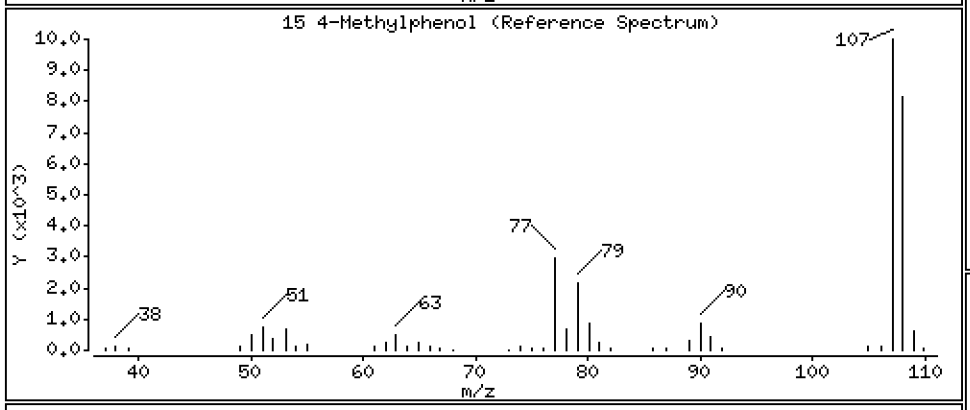
Column diameter: 0.25

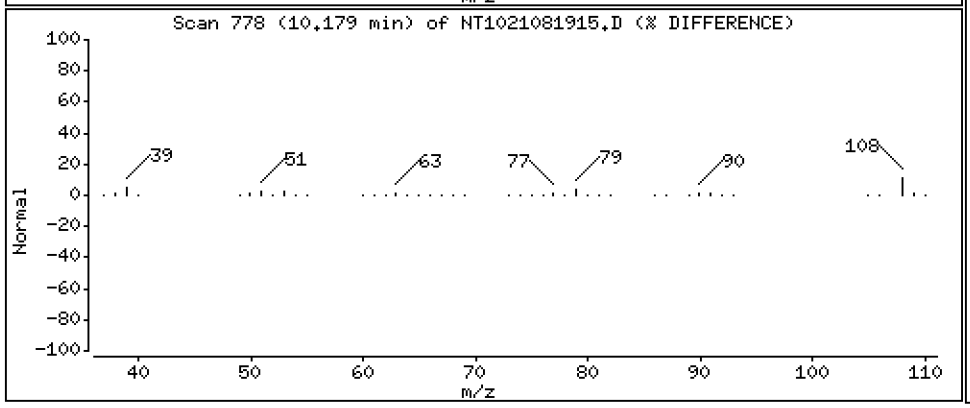
15 4-Methylphenol

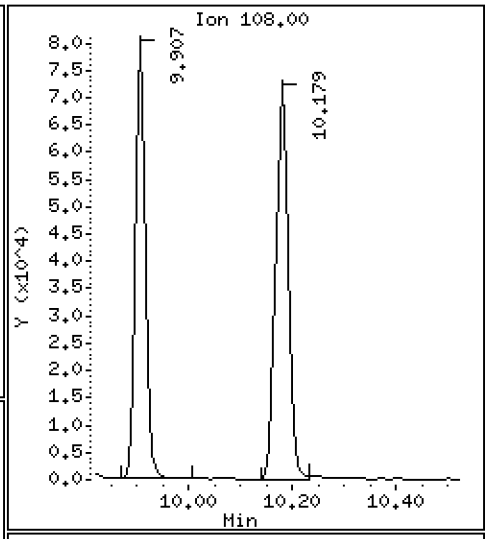
Concentration: 4.688 ug/mL

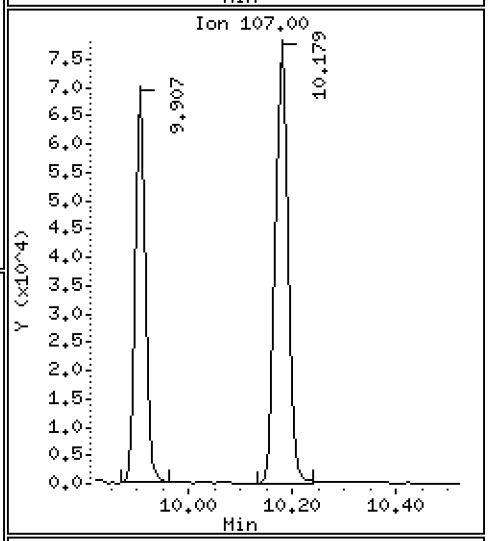


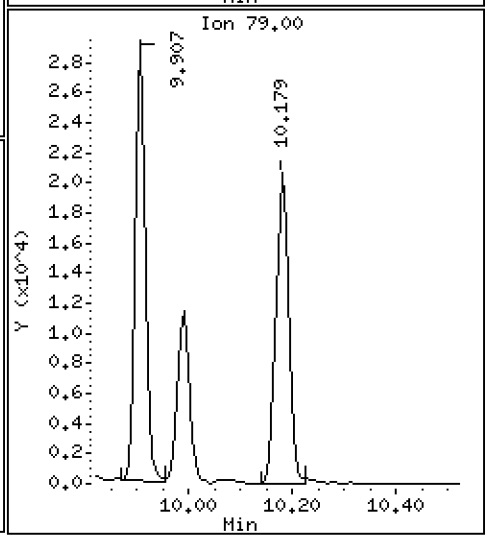












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

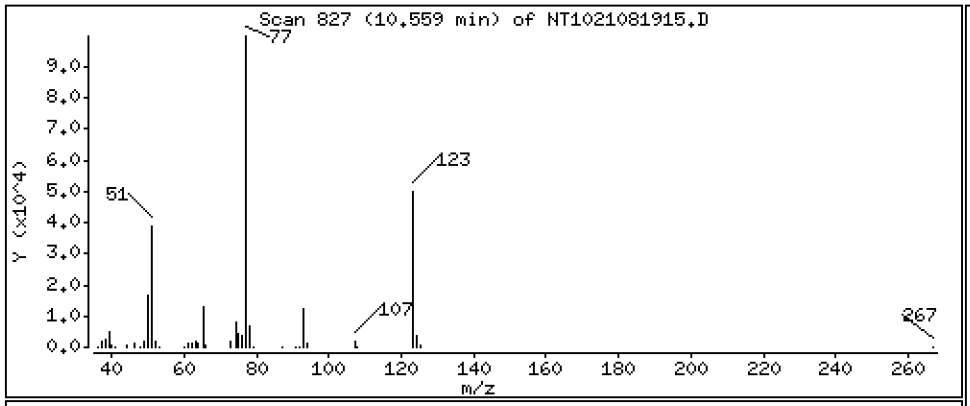
Operator: VTS

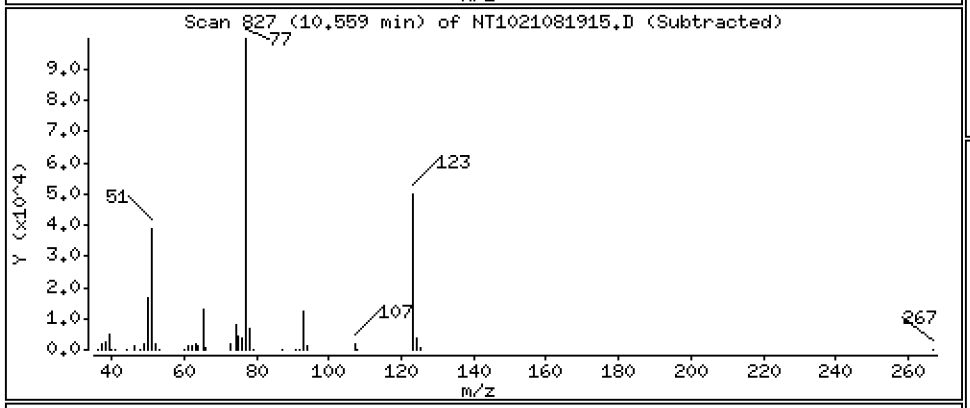
Column phase: ZB-5msi

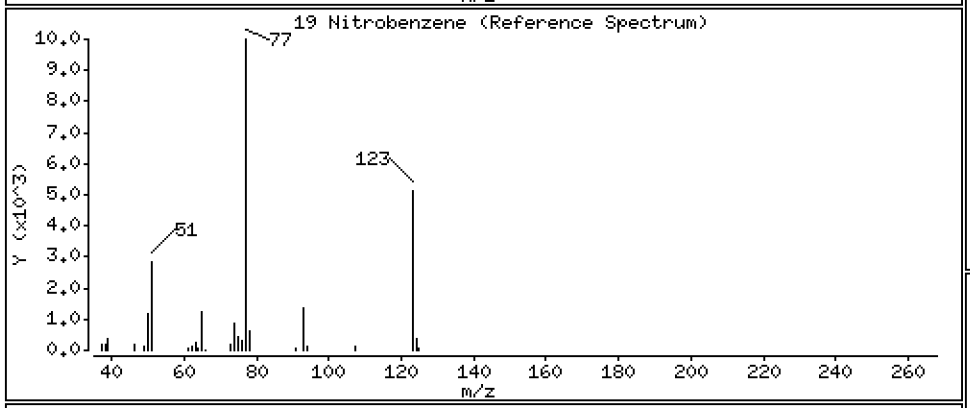
Column diameter: 0.25

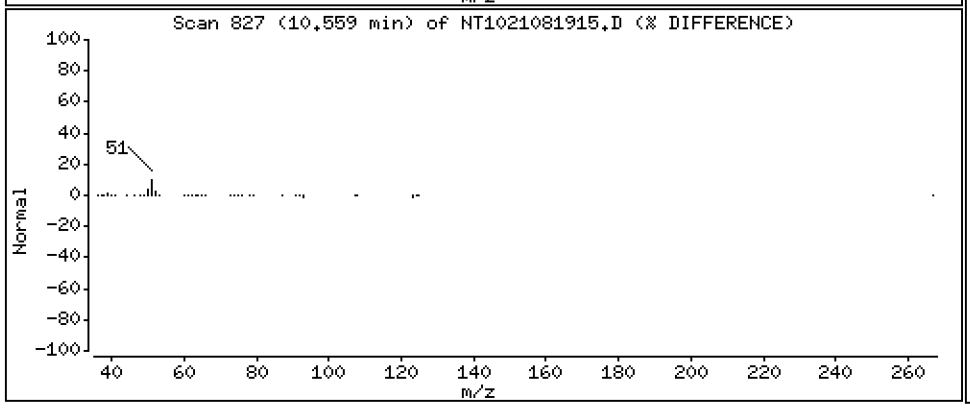
19 Nitrobenzene

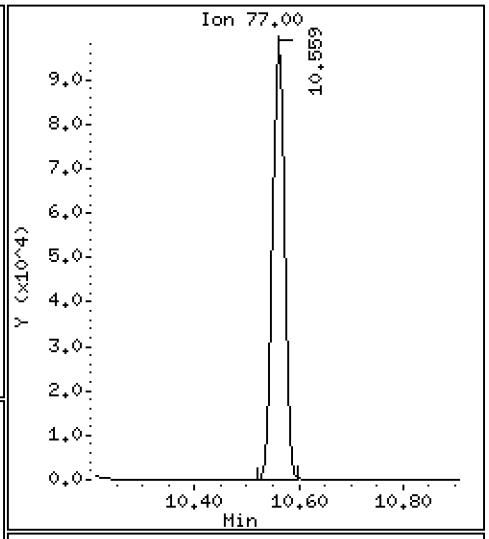
Concentration: 5.403 ug/mL

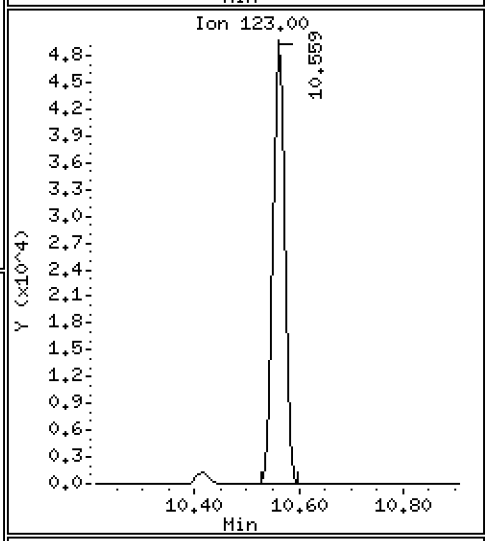


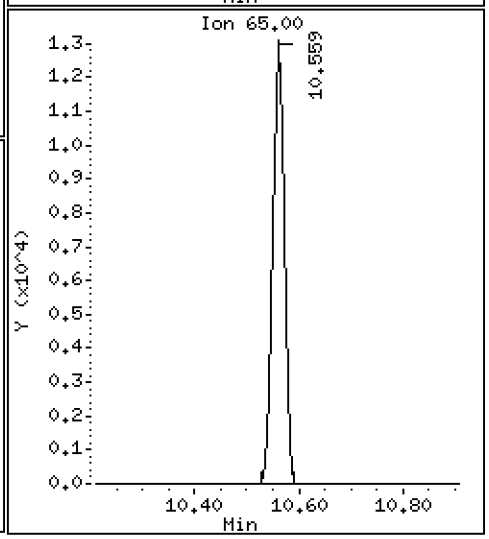












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

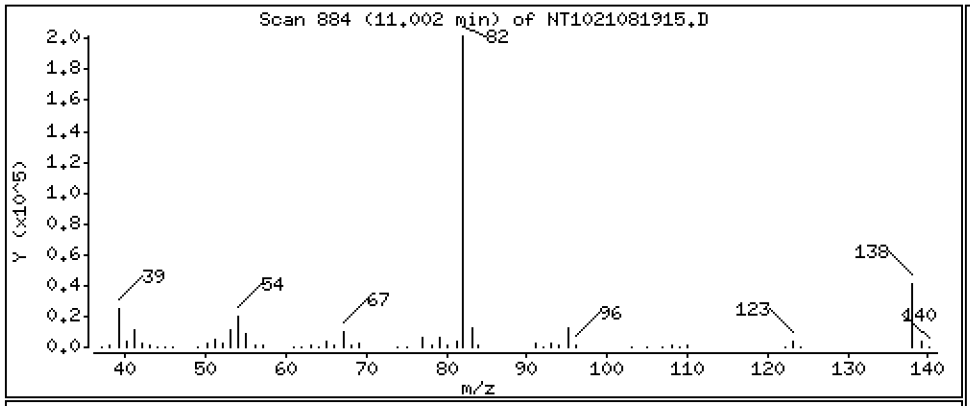
Operator: VTS

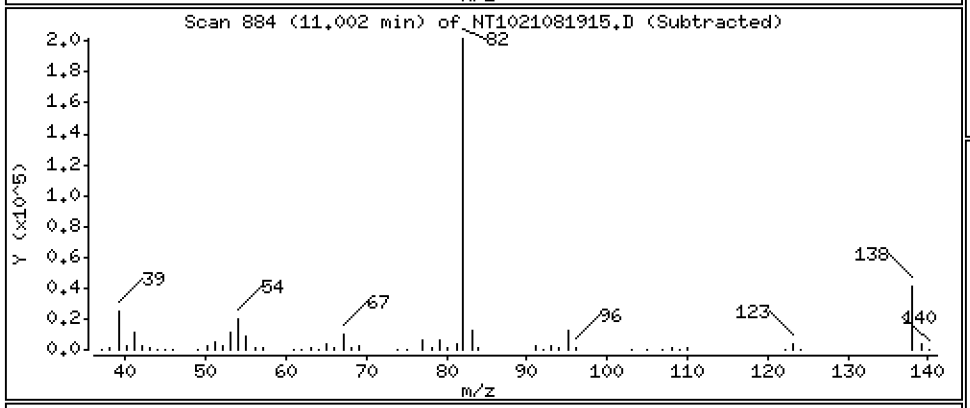
Column phase: ZB-5msi

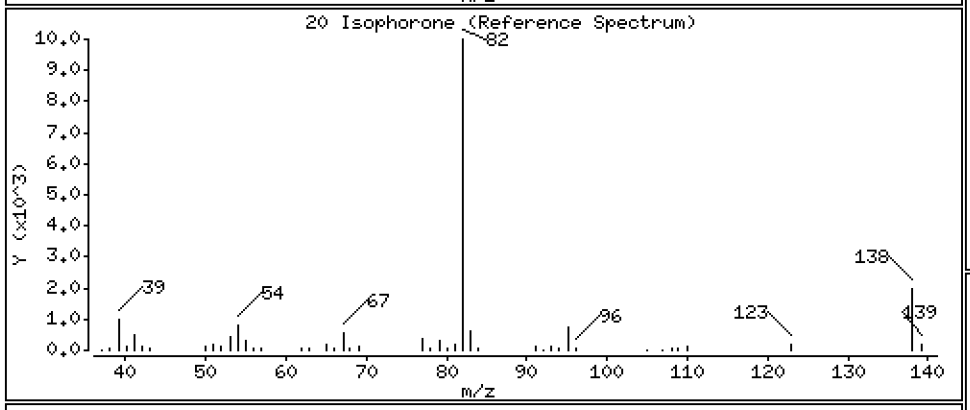
Column diameter: 0.25

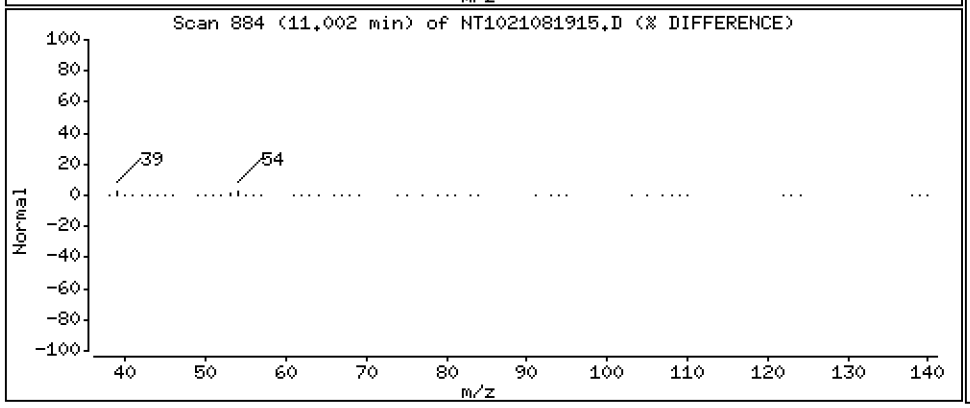
20 Isophorone

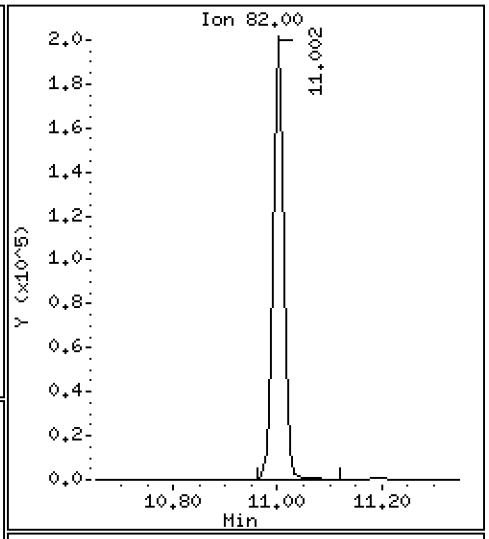
Concentration: 7.778 ug/mL

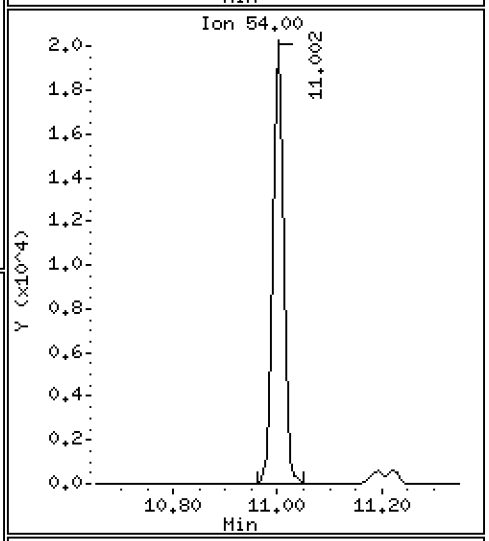


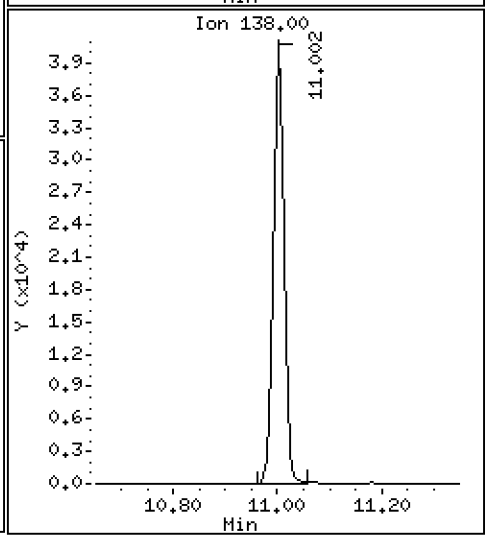












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

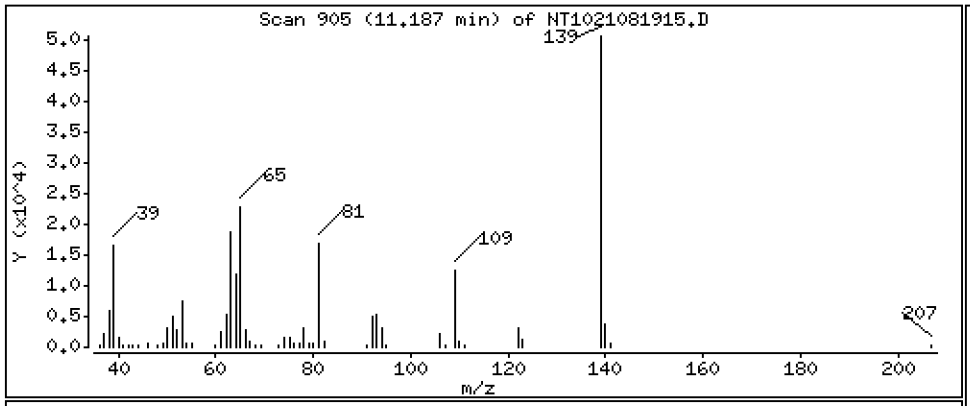
Operator: VTS

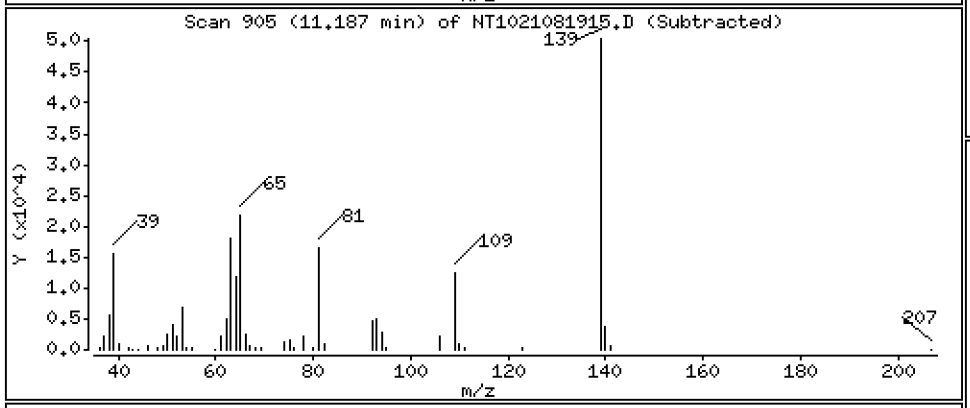
Column phase: ZB-5msi

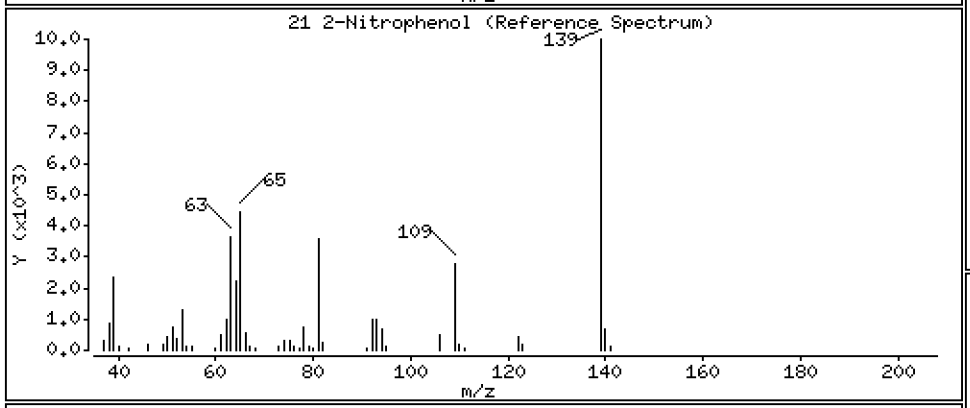
Column diameter: 0.25

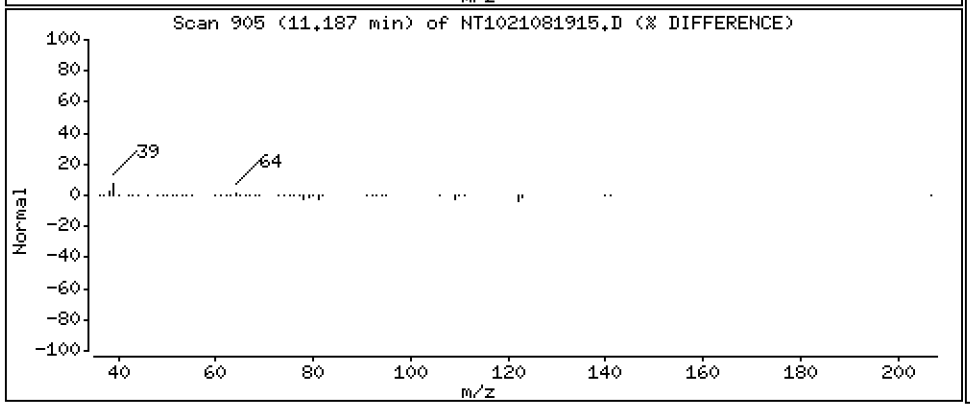
21 2-Nitrophenol

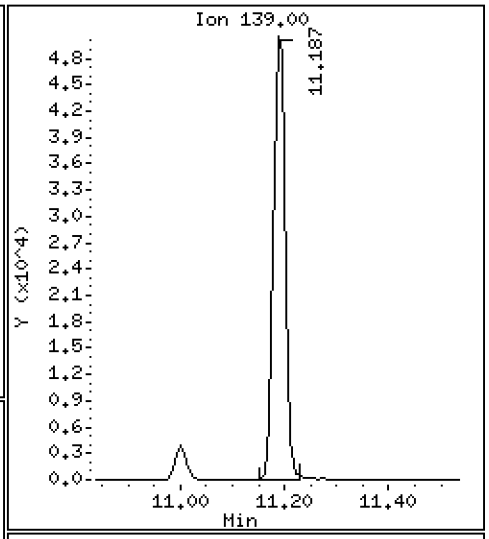
Concentration: 5.178 ug/mL

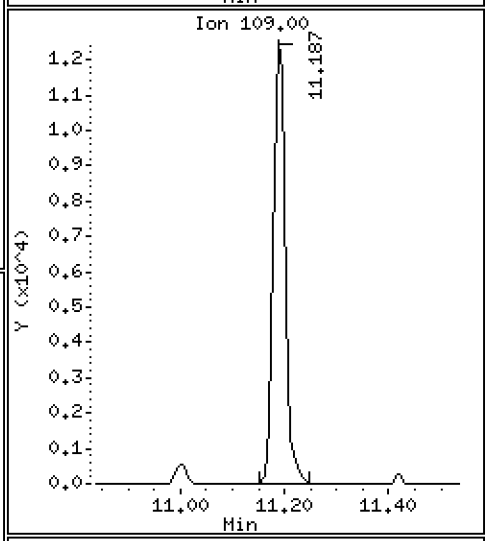


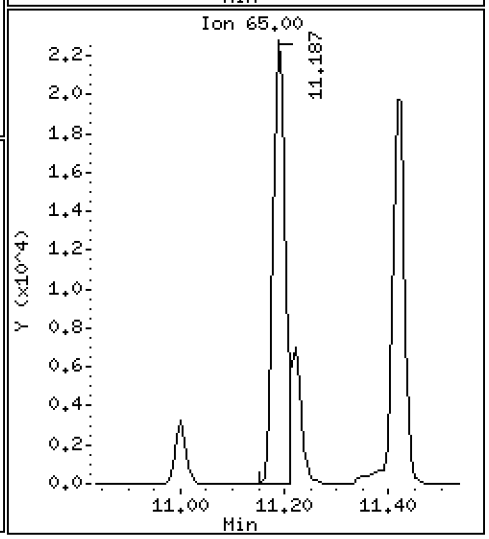












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

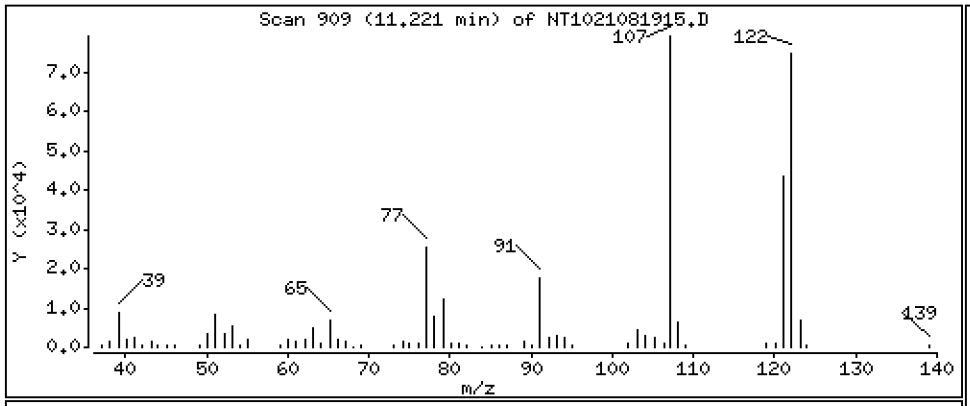
Client ID: Instrument: nt10.i

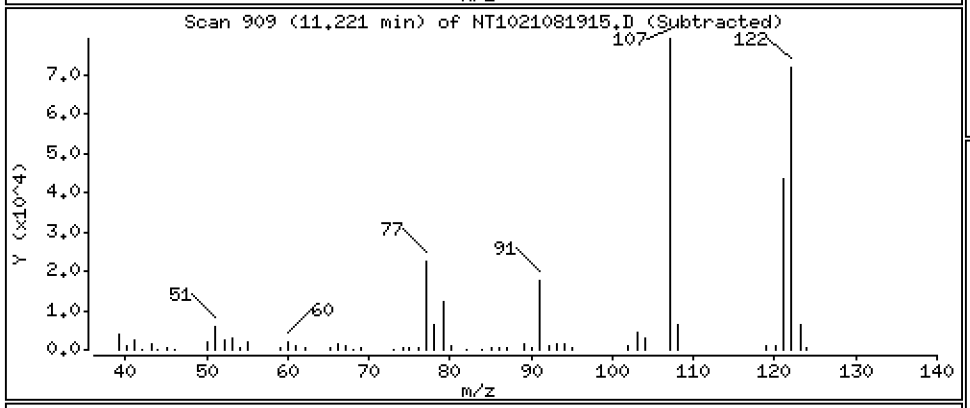
Sample Info: SJH0235-SCV1

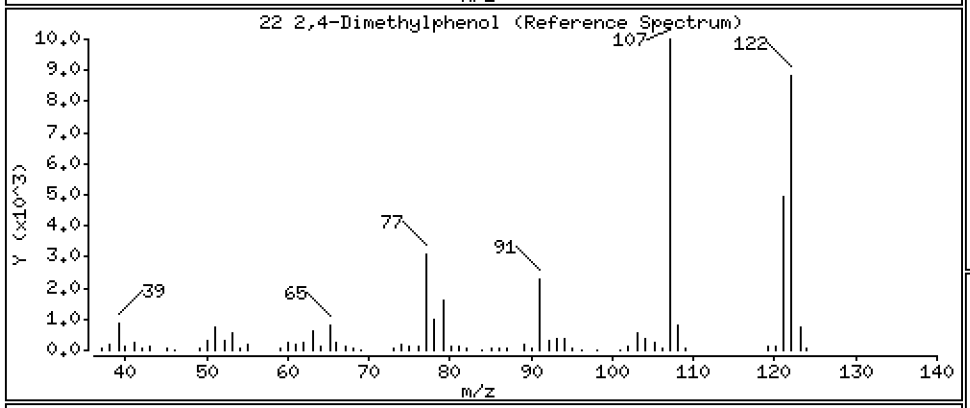
Operator: VTS

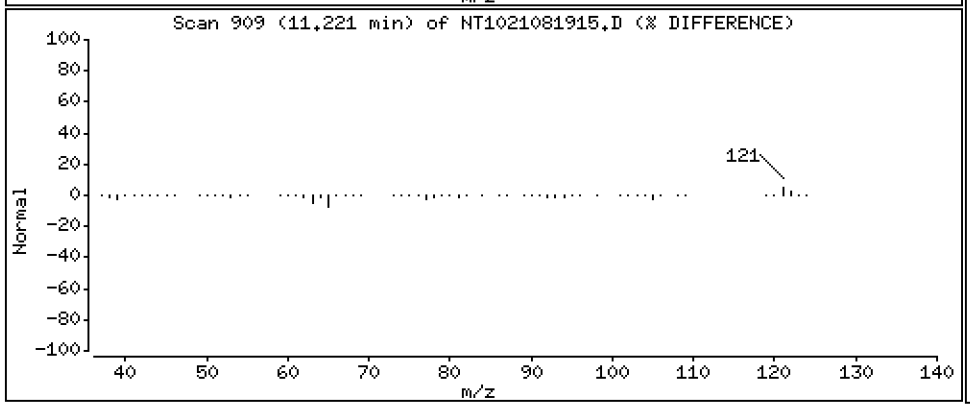
Column phase: ZB-5msi Column diameter: 0.25

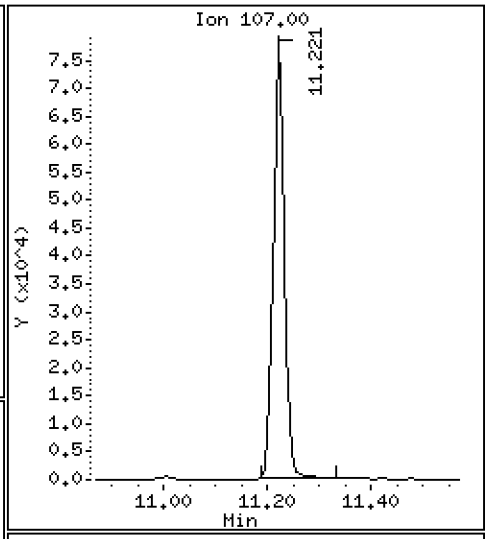
22 2,4-Dimethylphenol Concentration: 4.920 ug/mL

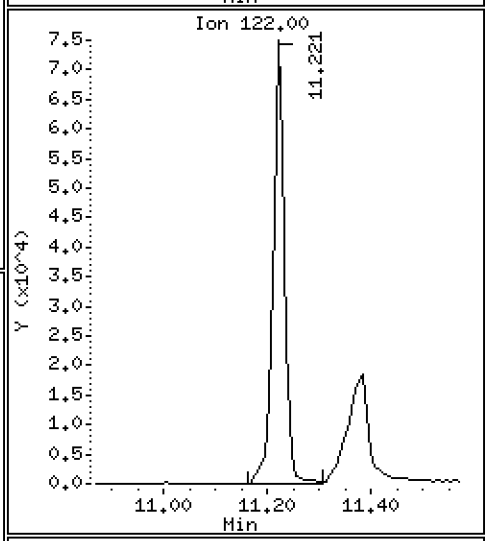


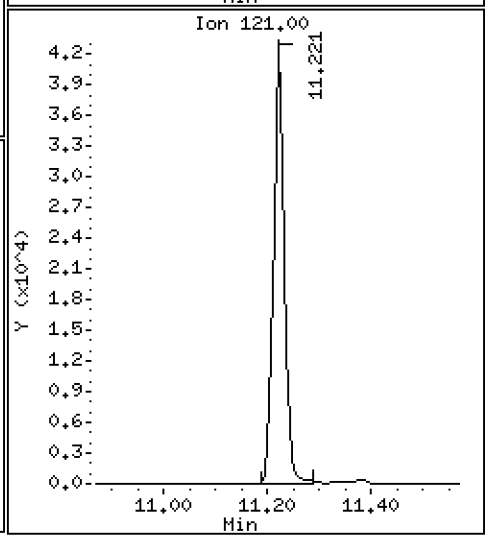












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

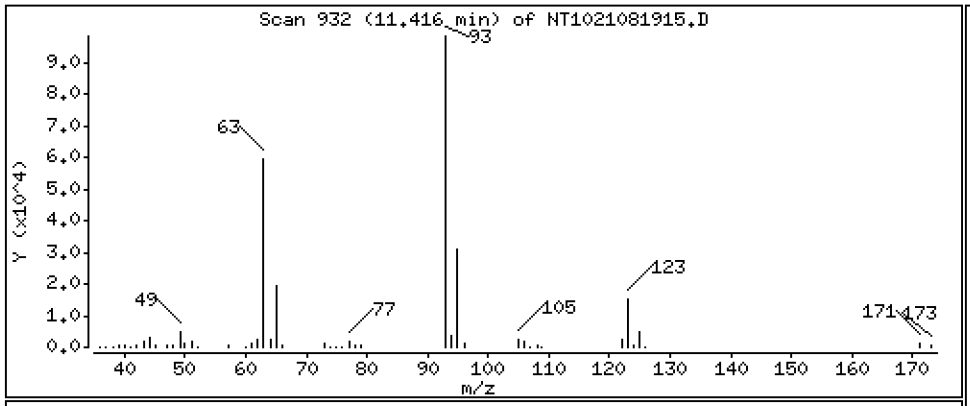
Operator: VTS

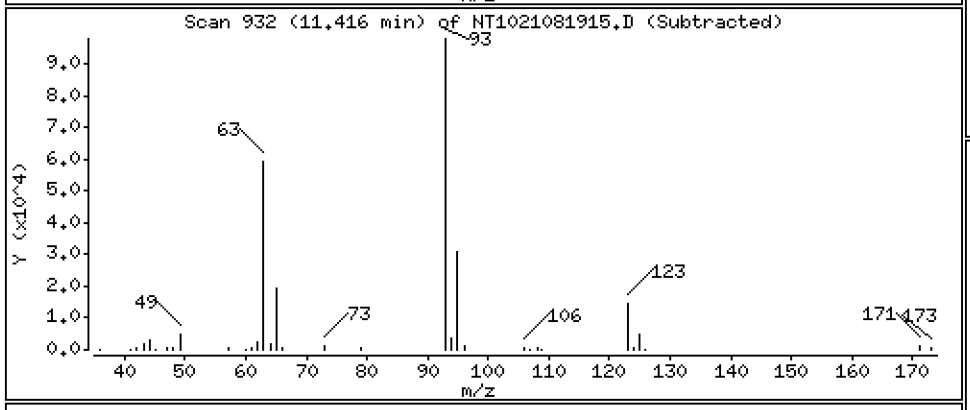
Column phase: ZB-5msi

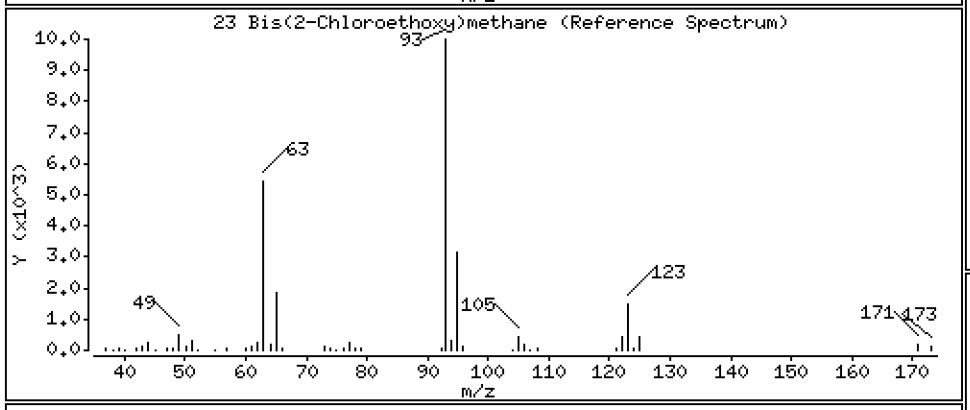
Column diameter: 0.25

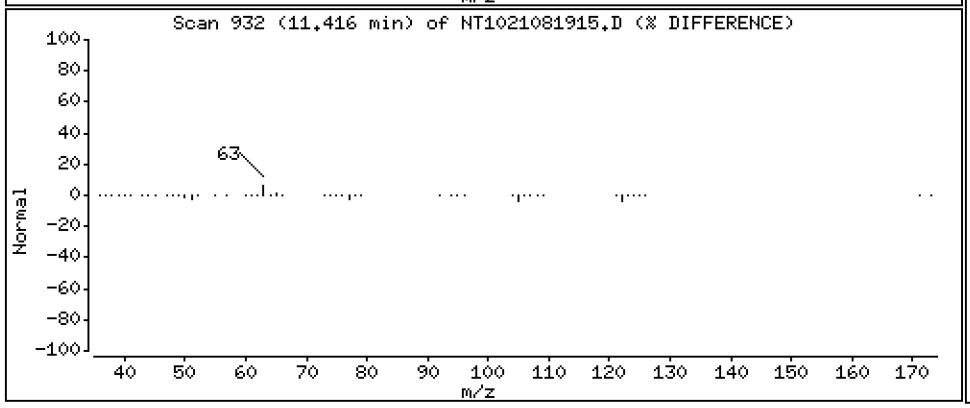
23 Bis(2-Chloroethoxy)methane

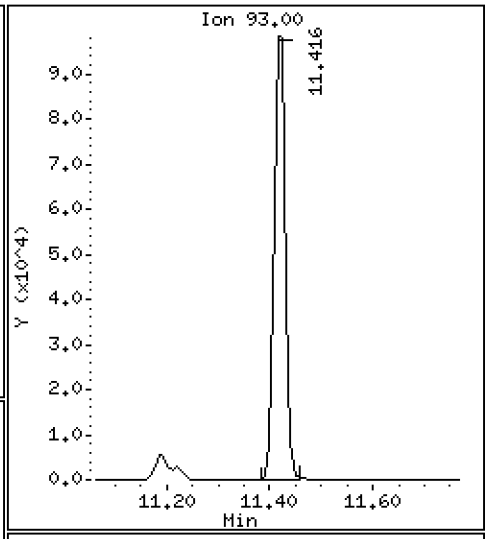
Concentration: 5.938 ug/mL

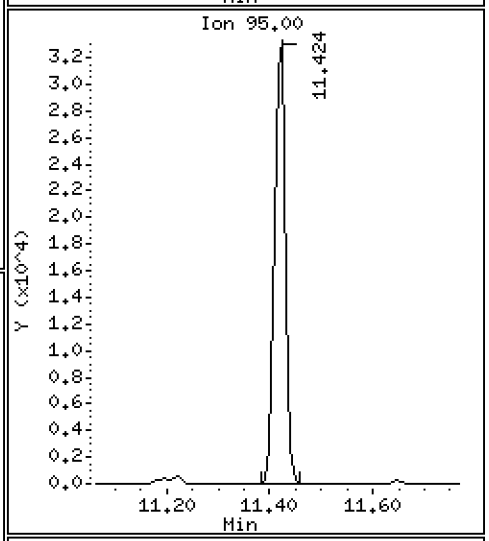


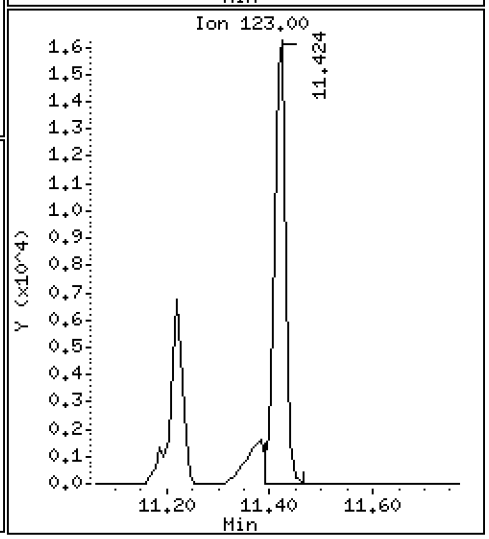












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

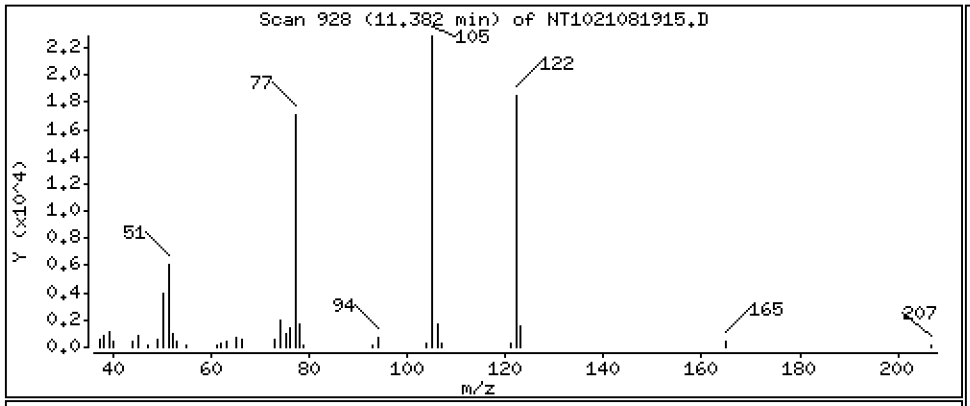
Operator: VTS

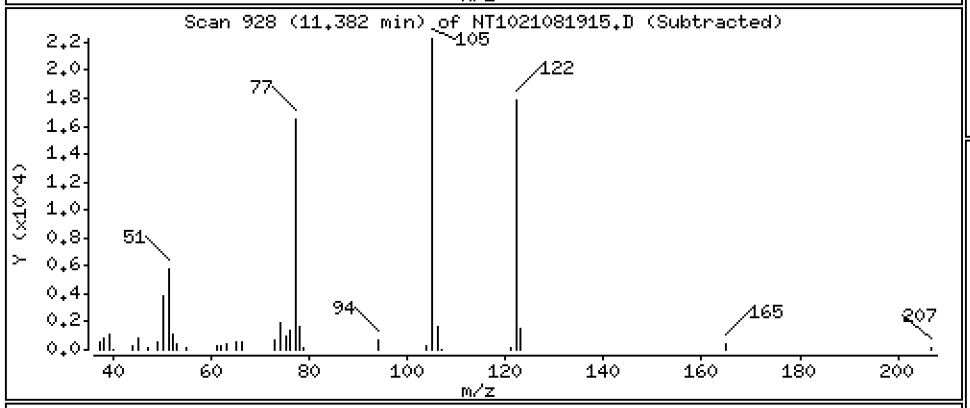
Column phase: ZB-5msi

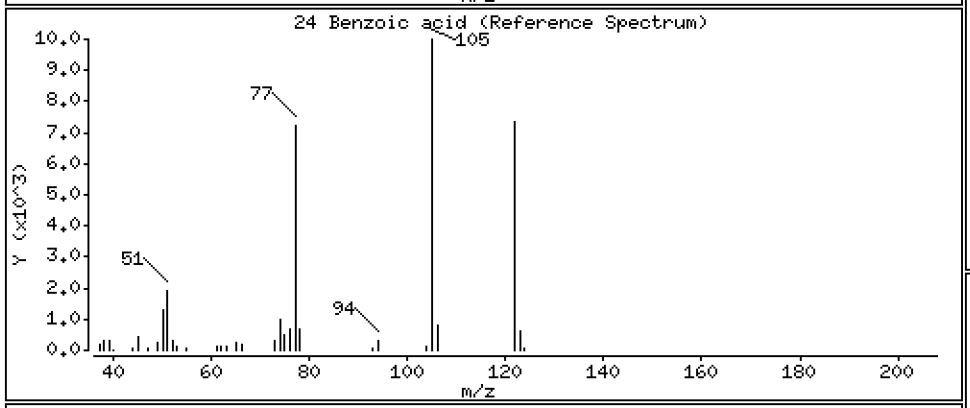
Column diameter: 0.25

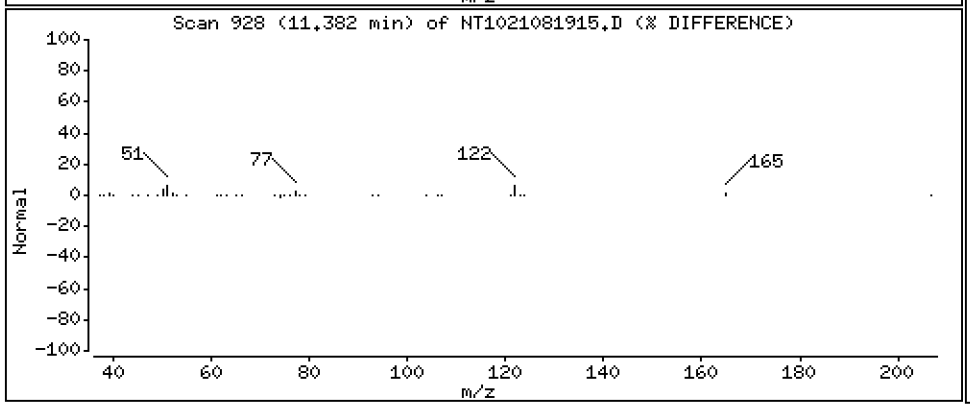
24 Benzoic acid

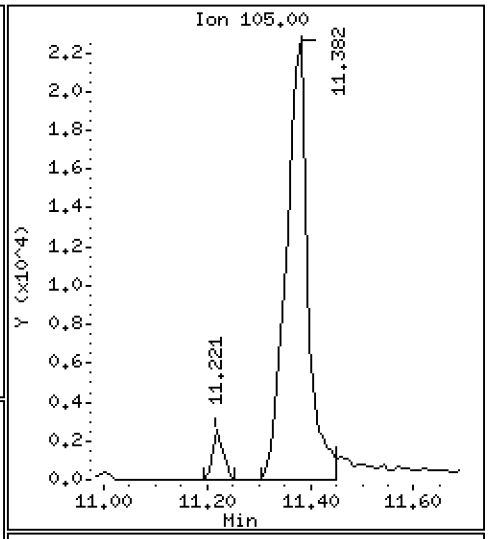
Concentration: 5.378 ug/mL

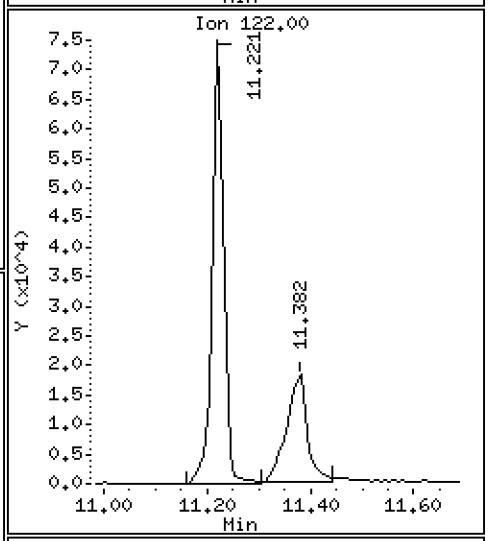


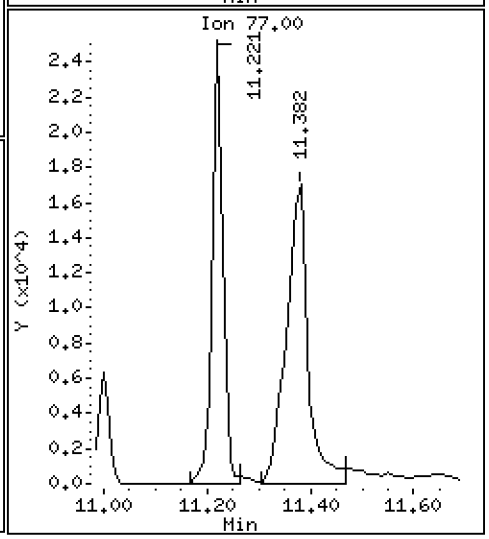












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

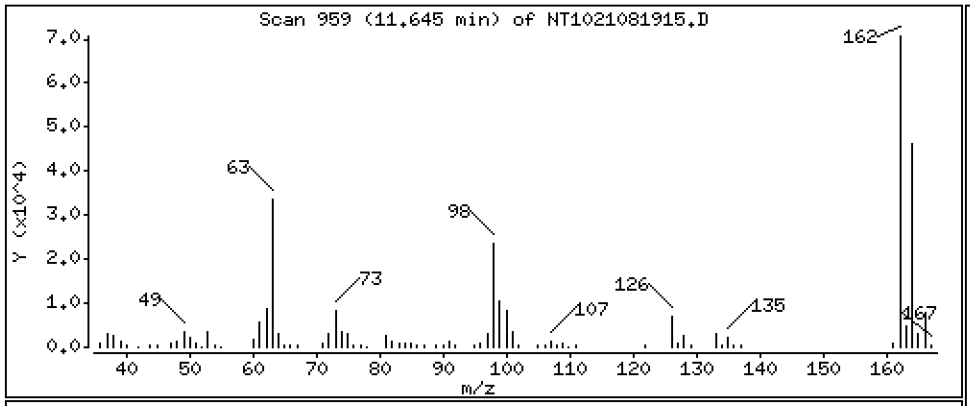
Operator: VTS

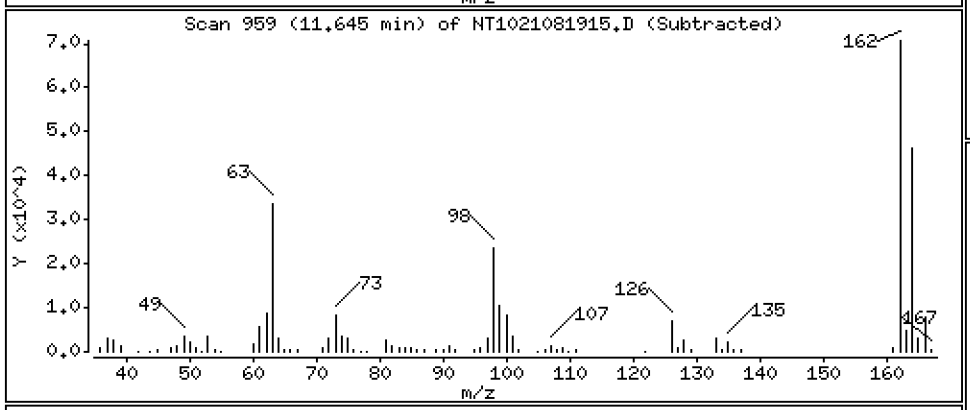
Column phase: ZB-5msi

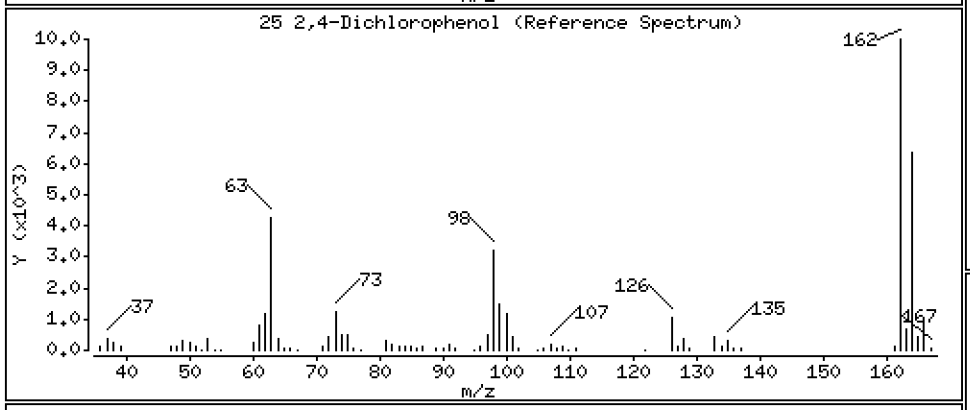
Column diameter: 0.25

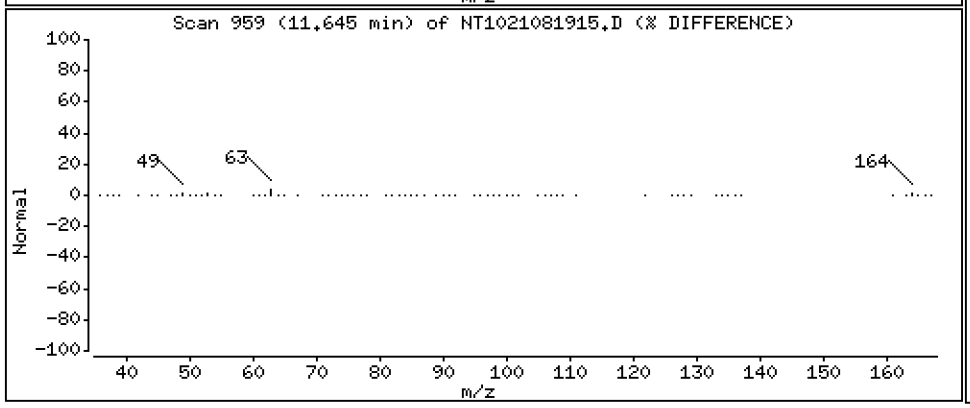
25 2,4-Dichlorophenol

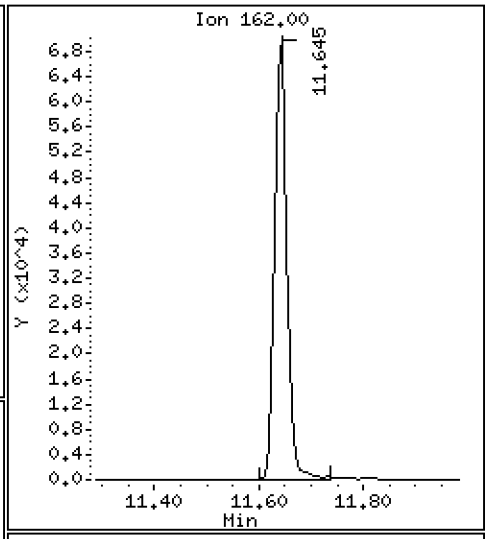
Concentration: 5.147 ug/mL

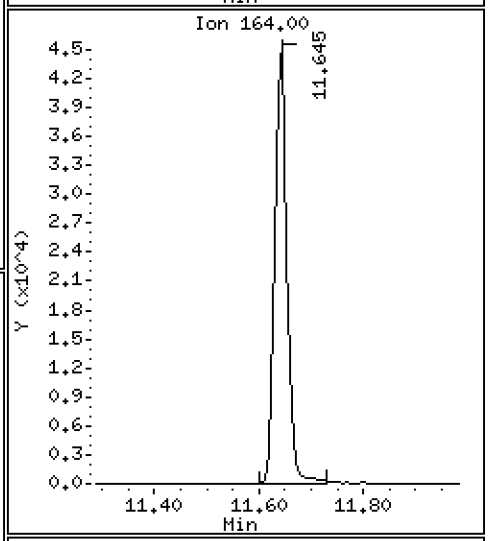


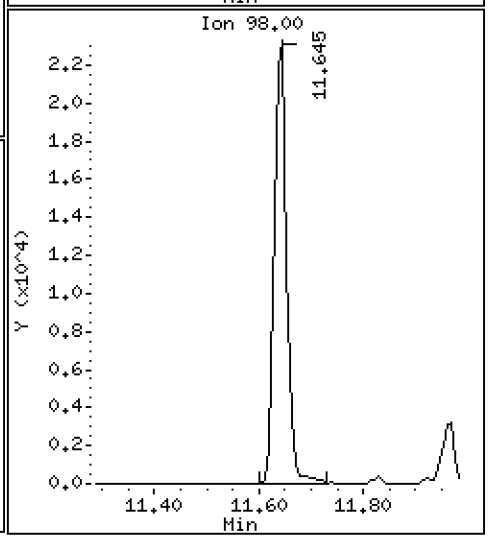












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

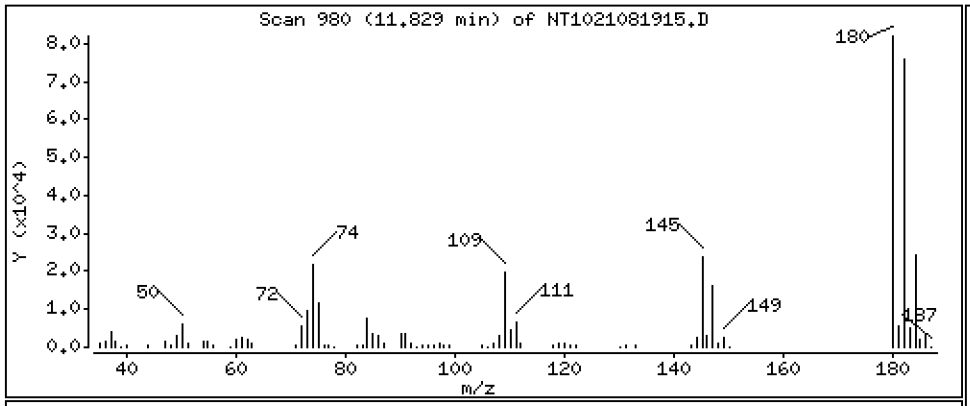
Operator: VTS

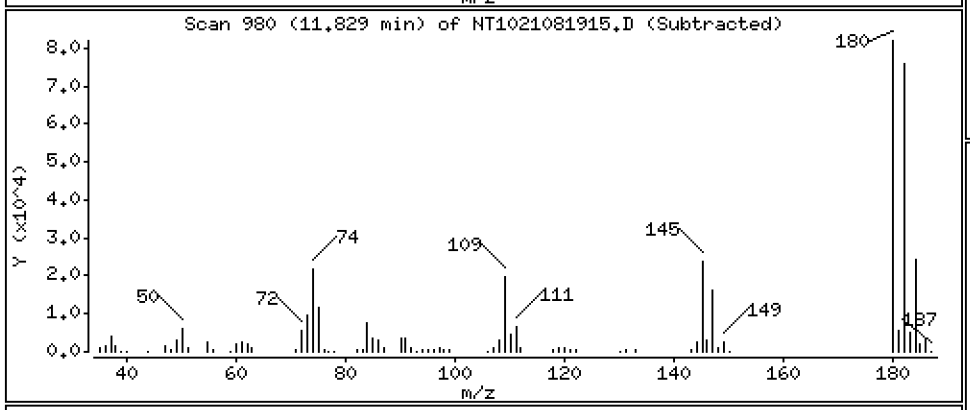
Column phase: ZB-5msi

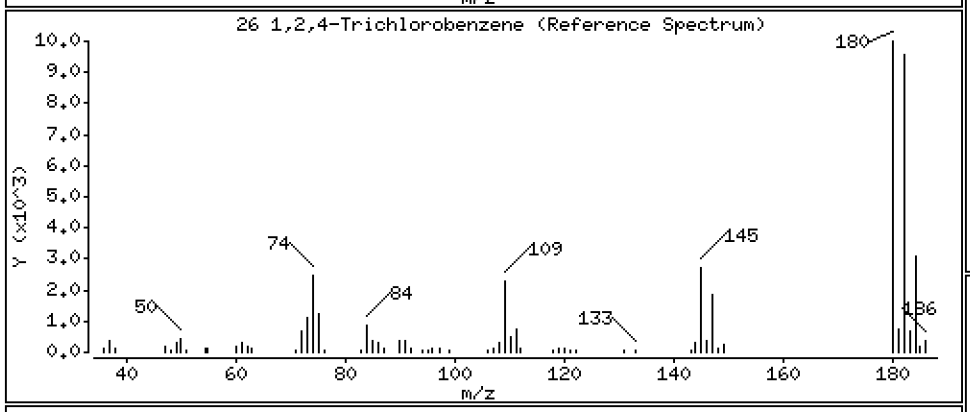
Column diameter: 0.25

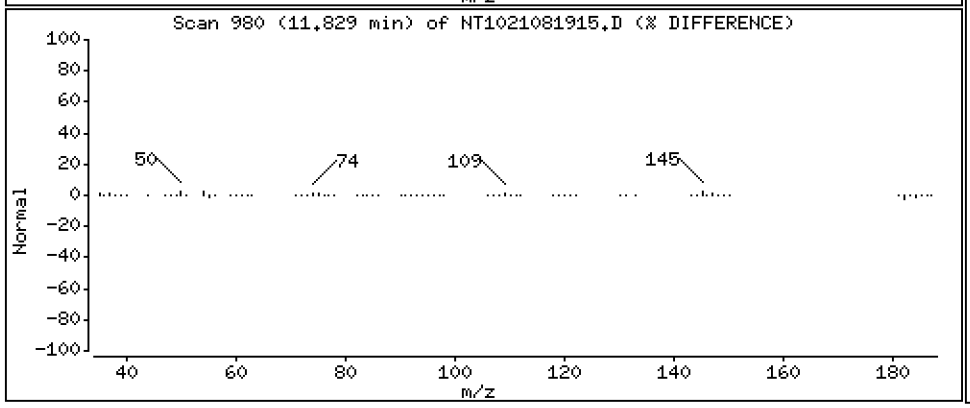
26 1,2,4-Trichlorobenzene

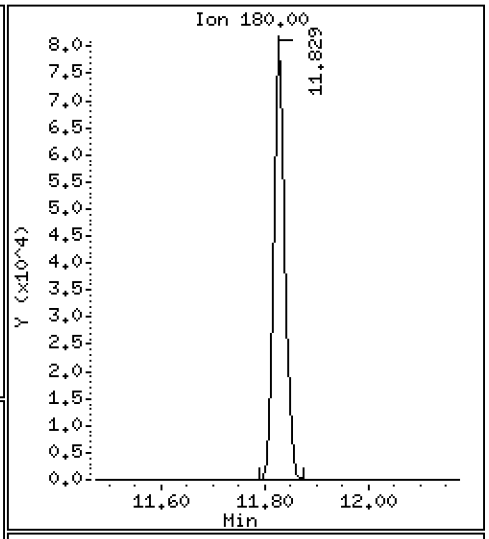
Concentration: 5.000 ug/mL

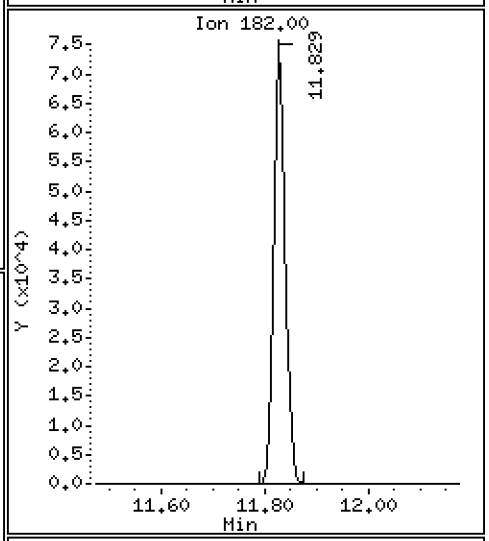


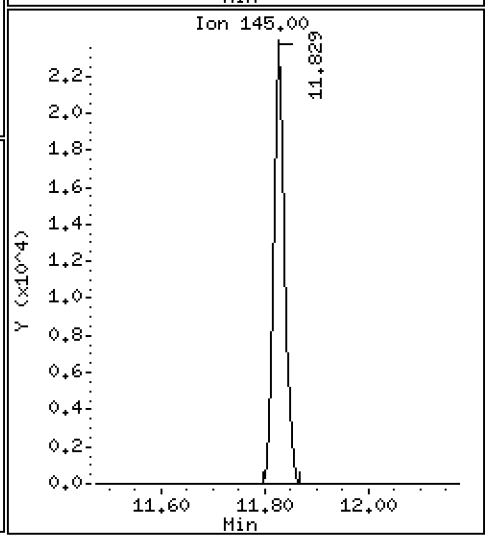












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

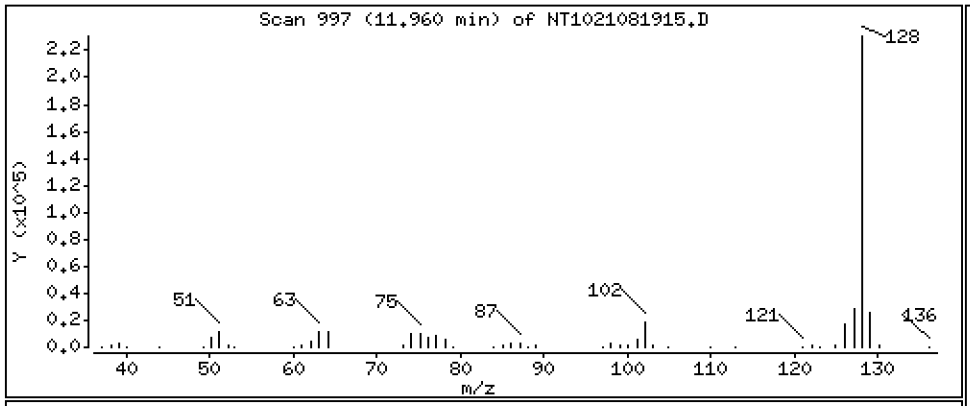
Operator: VTS

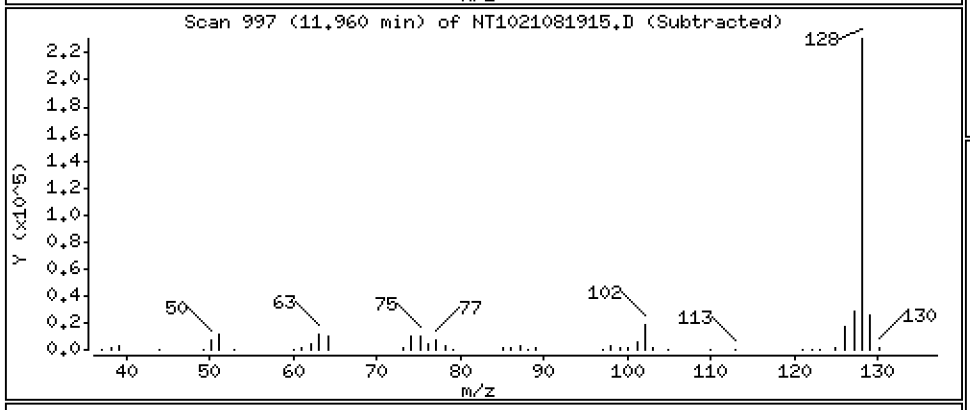
Column phase: ZB-5msi

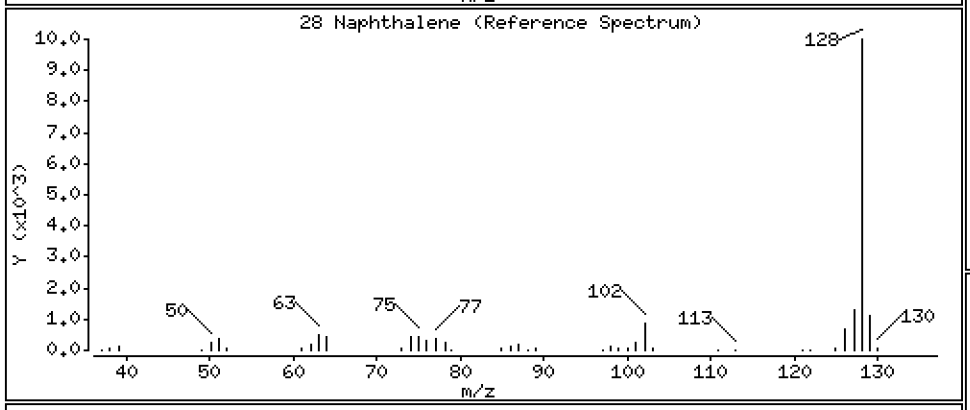
Column diameter: 0.25

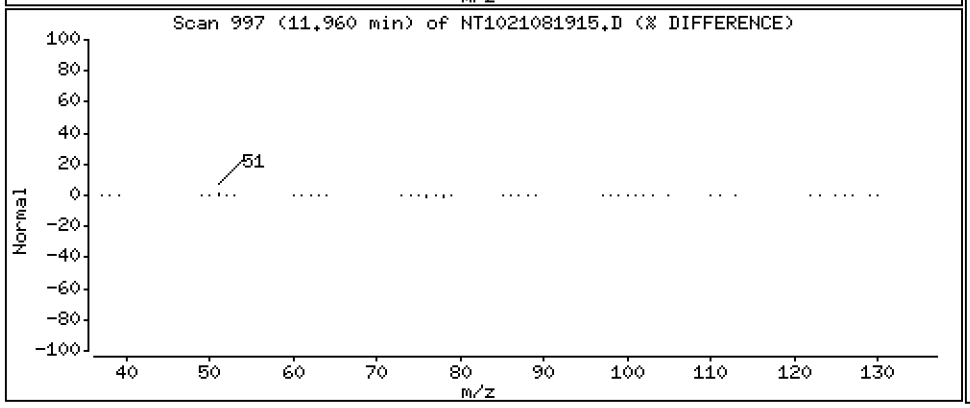
28 Naphthalene

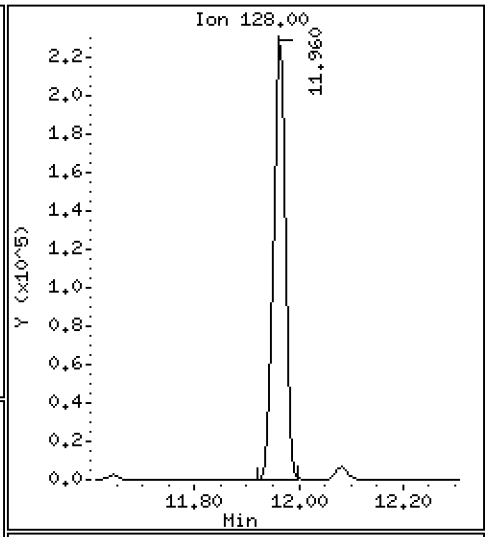
Concentration: 5.100 ug/mL

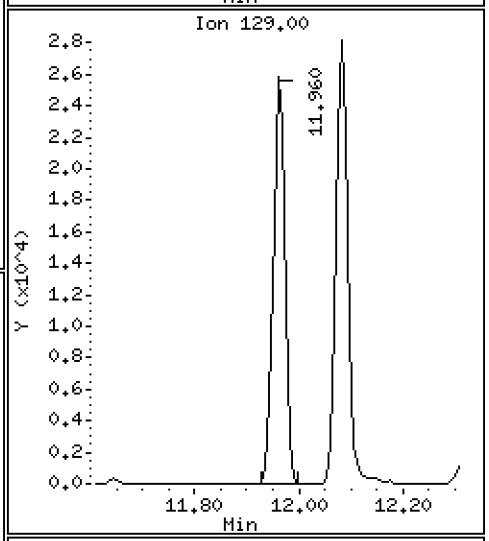


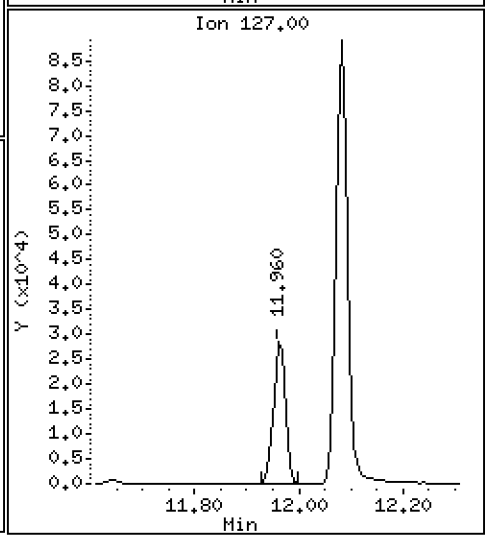












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

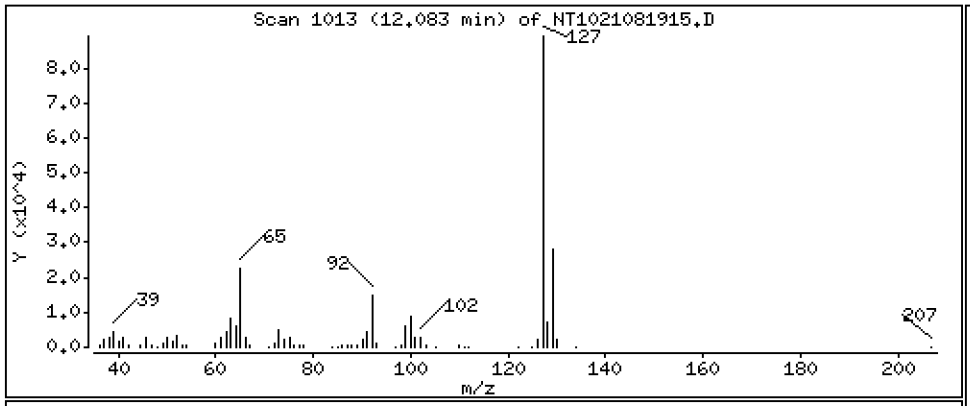
Operator: VTS

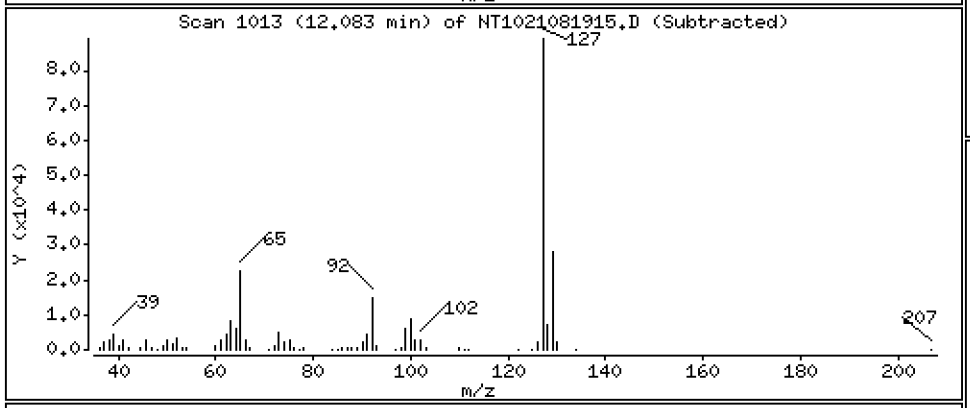
Column phase: ZB-5msi

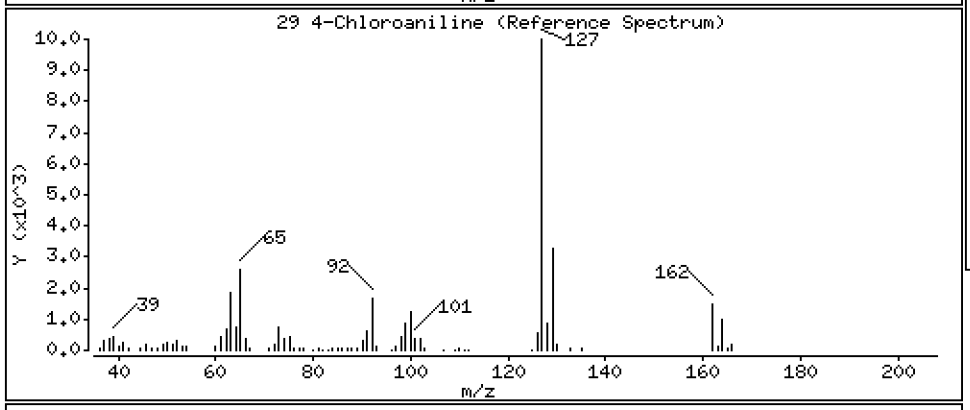
Column diameter: 0.25

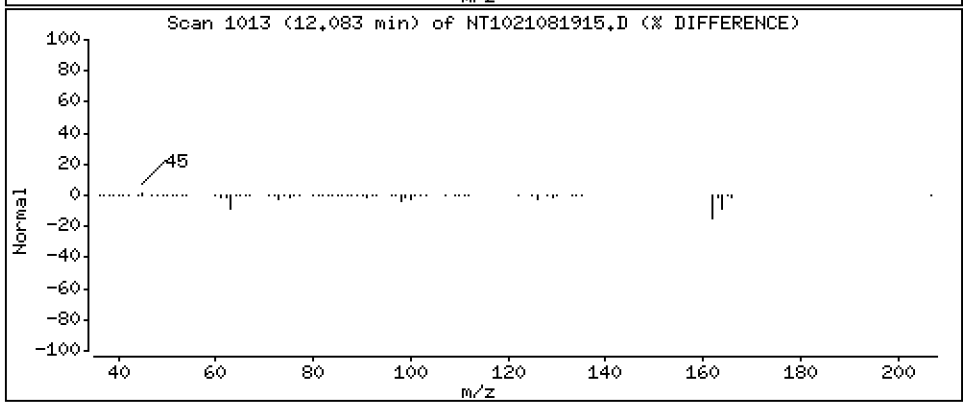
29 4-Chloroaniline

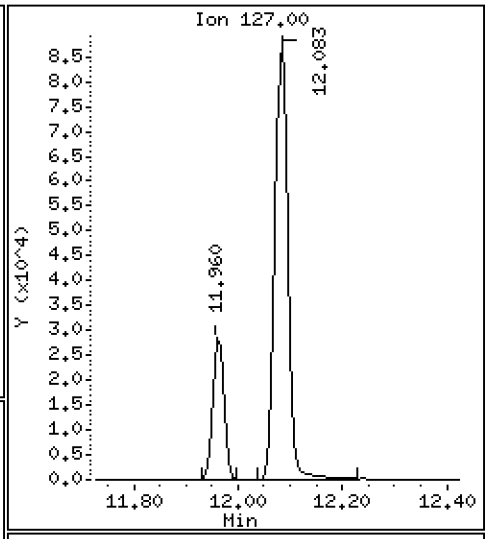
Concentration: 4.593 ug/mL

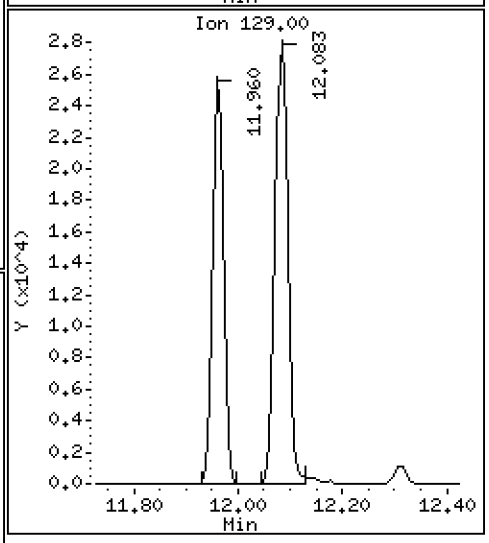












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

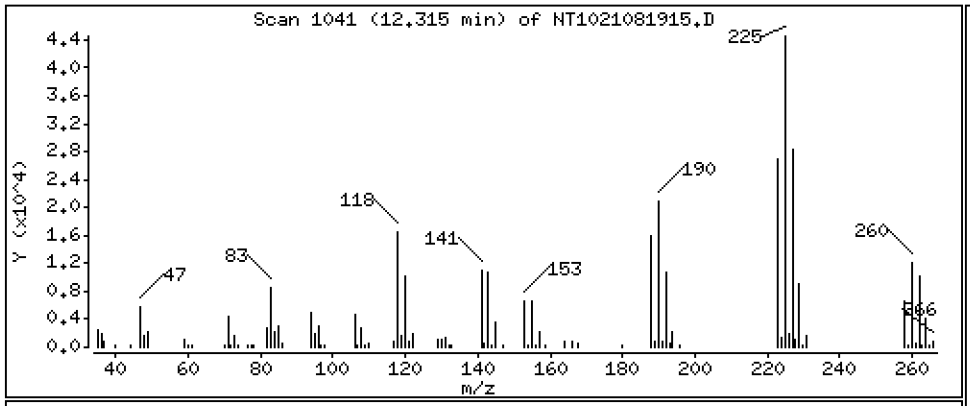
Operator: VTS

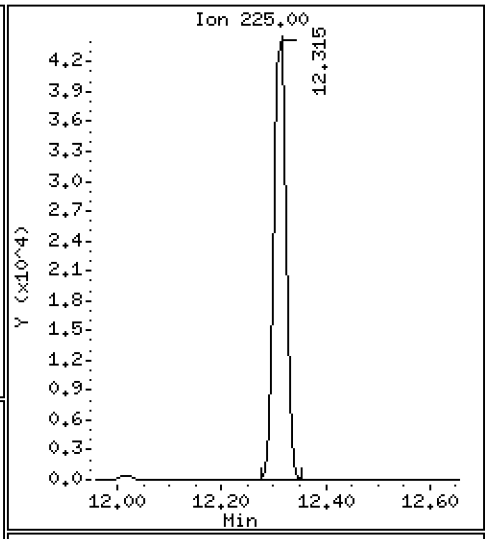
Column phase: ZB-5msi

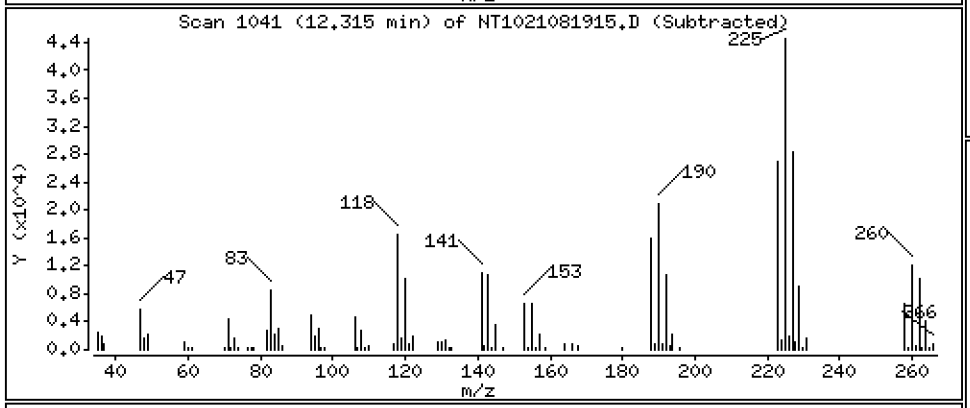
Column diameter: 0.25

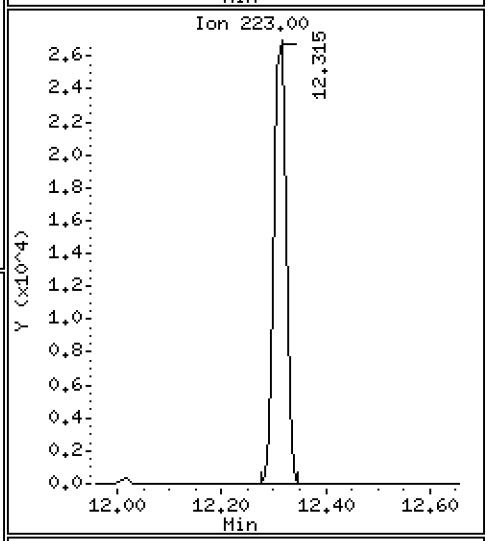
30 Hexachlorobutadiene

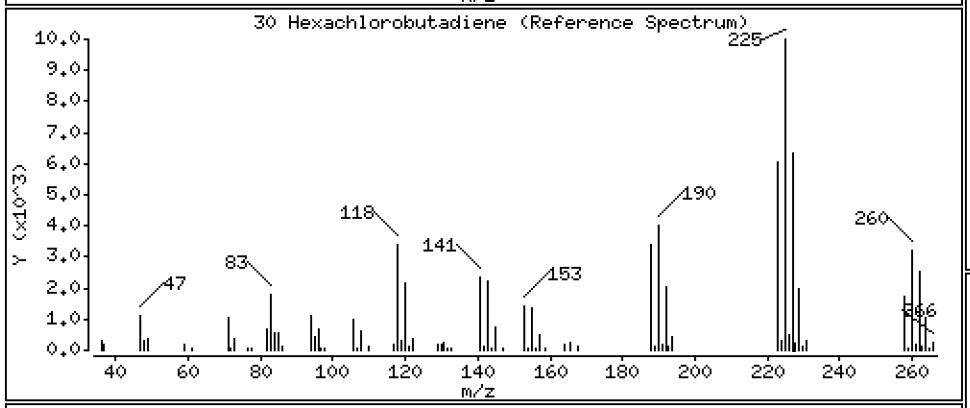
Concentration: 5.107 ug/mL

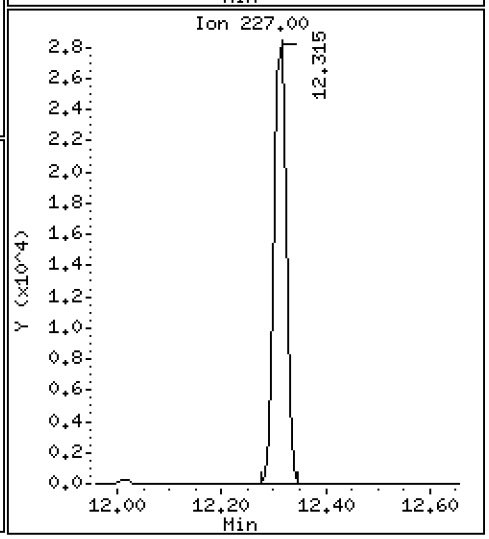


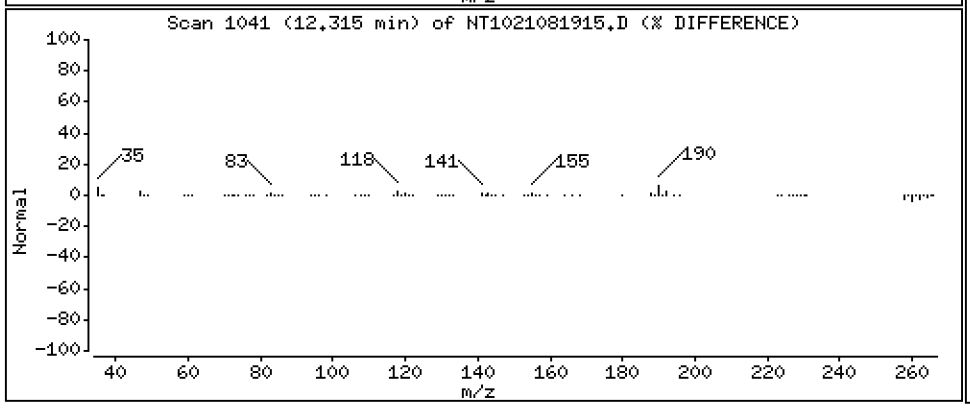












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

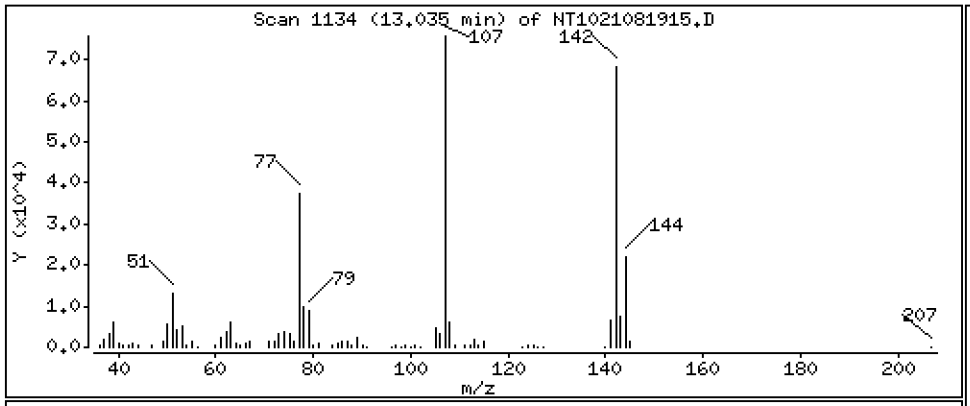
Operator: VTS

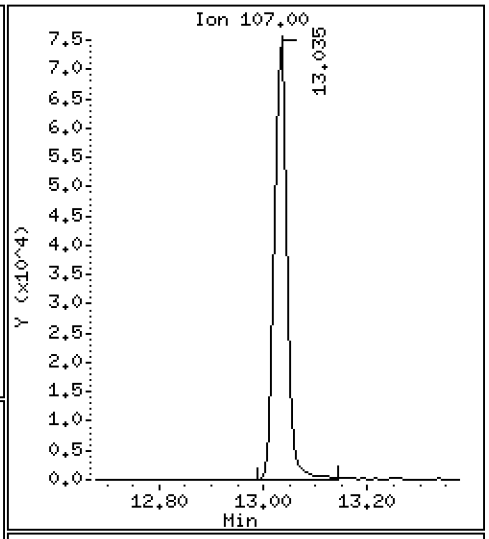
Column phase: ZB-5msi

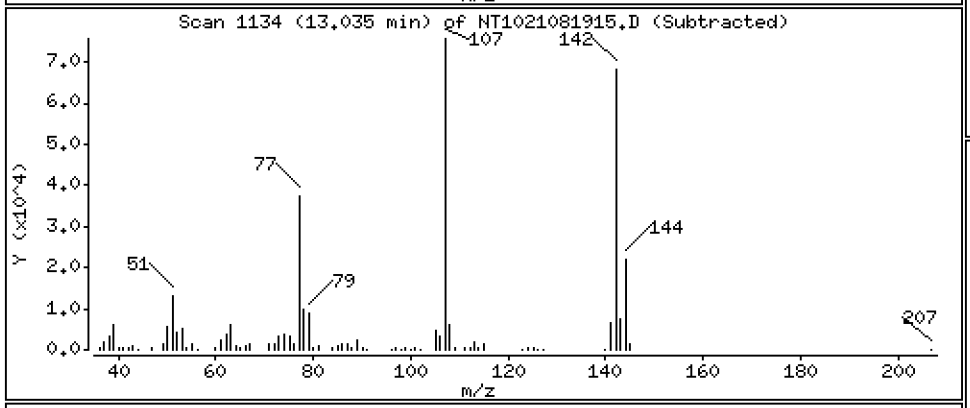
Column diameter: 0.25

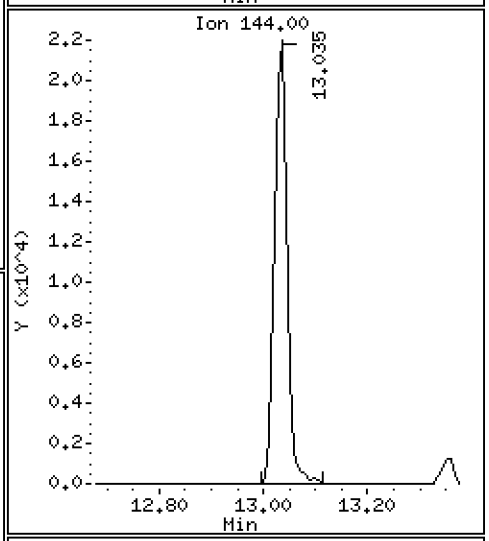
31 4-Chloro-3-methylphenol

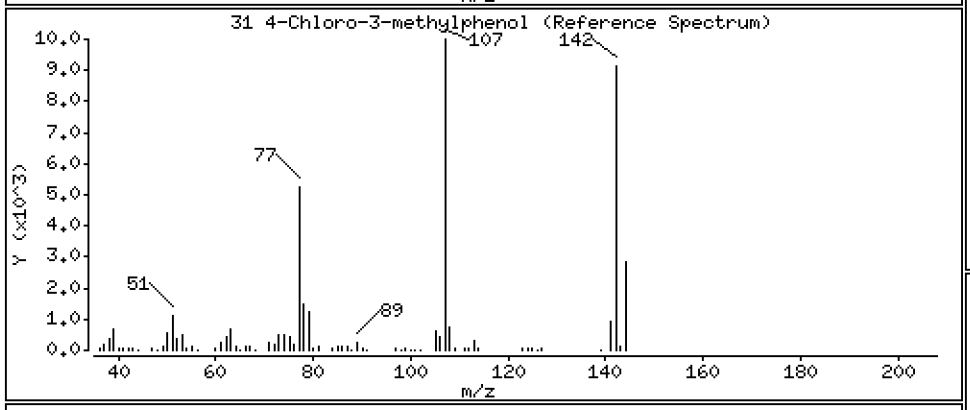
Concentration: 4.925 ug/mL

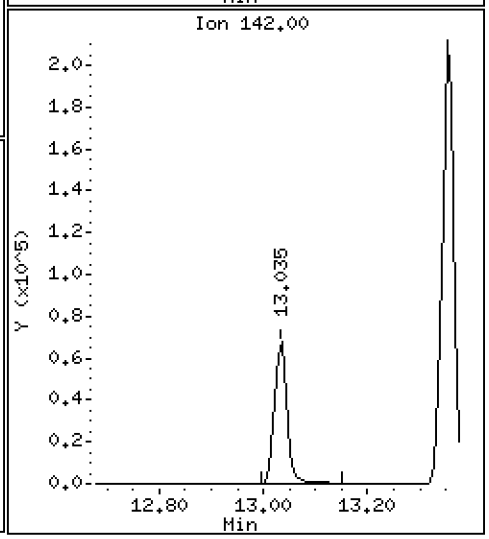


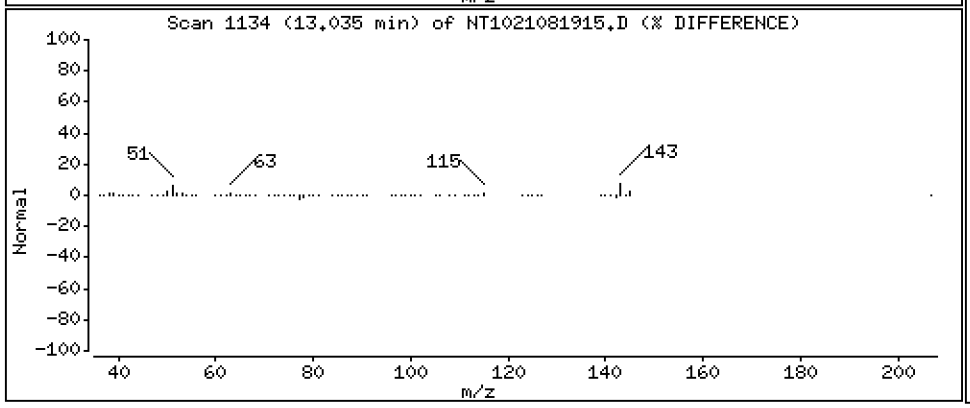












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

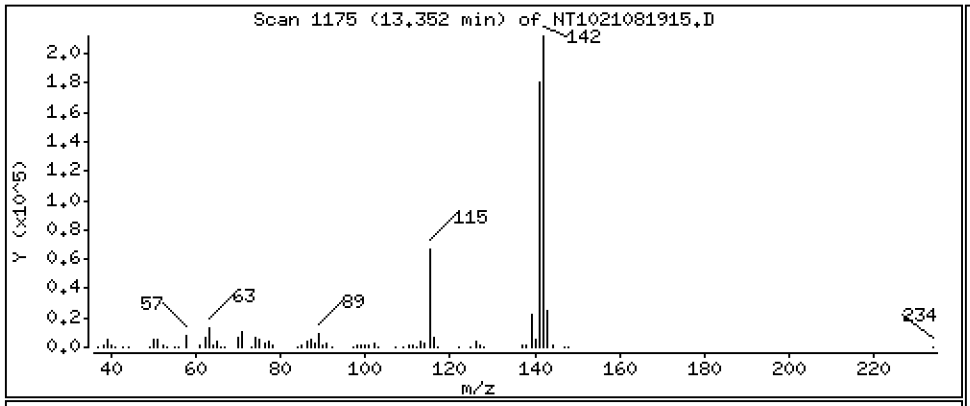
Operator: VTS

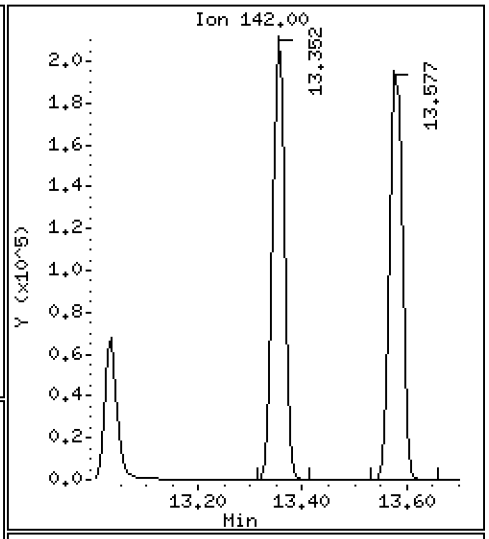
Column phase: ZB-5msi

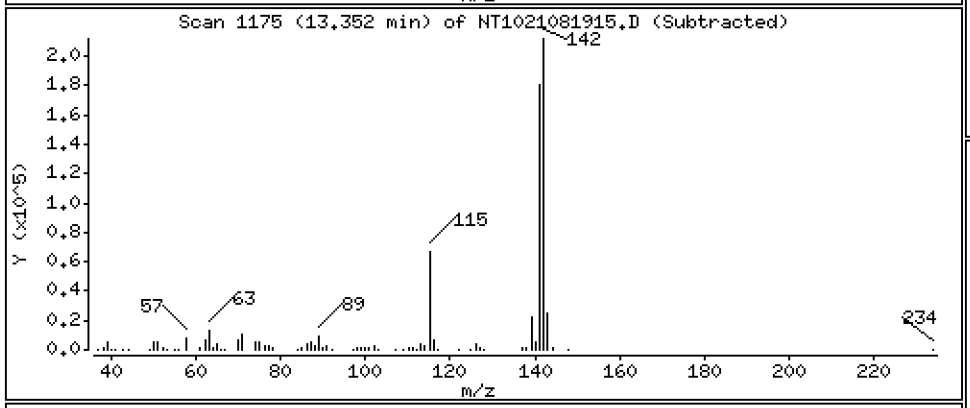
Column diameter: 0.25

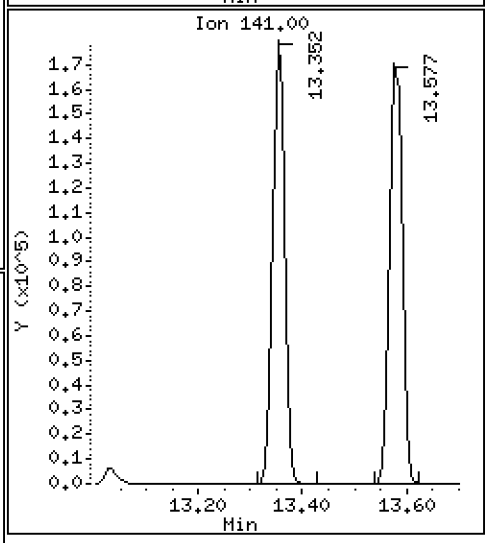
32 2-Methylnaphthalene

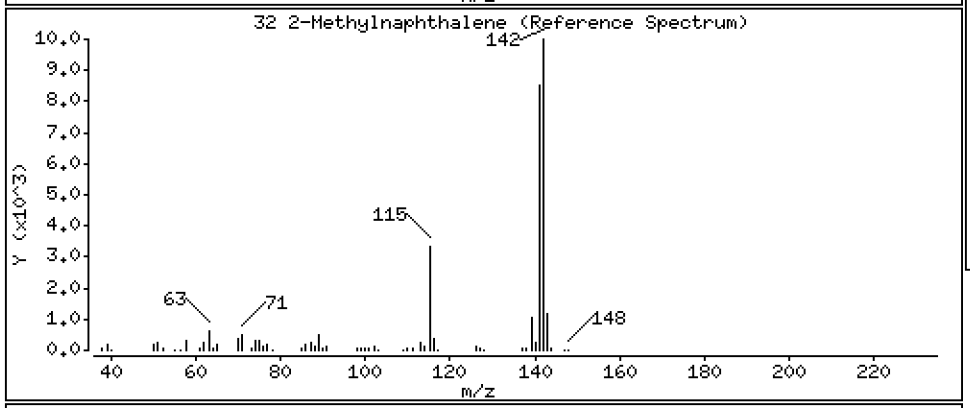
Concentration: 4.723 ug/mL

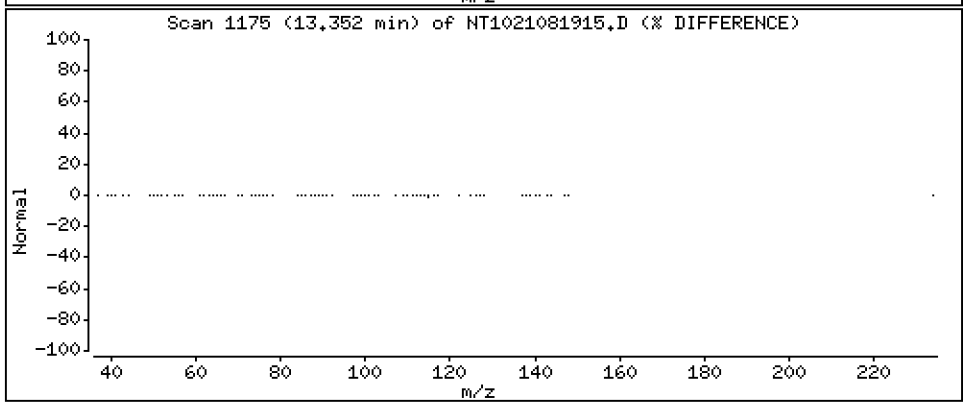












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

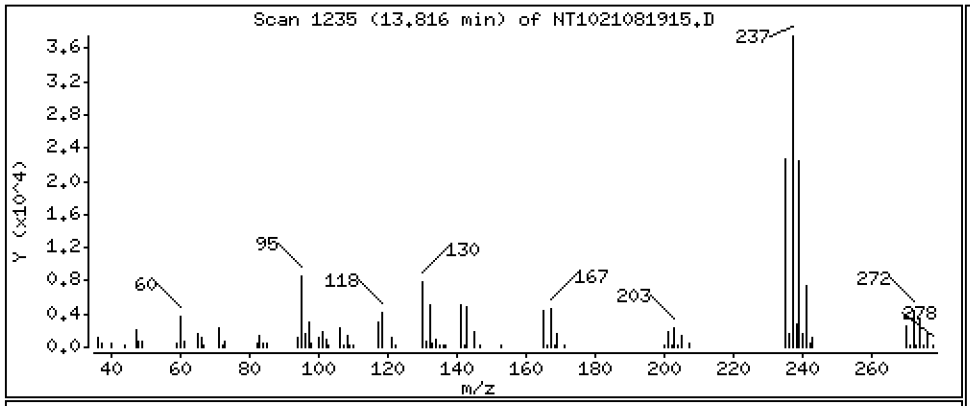
Operator: VTS

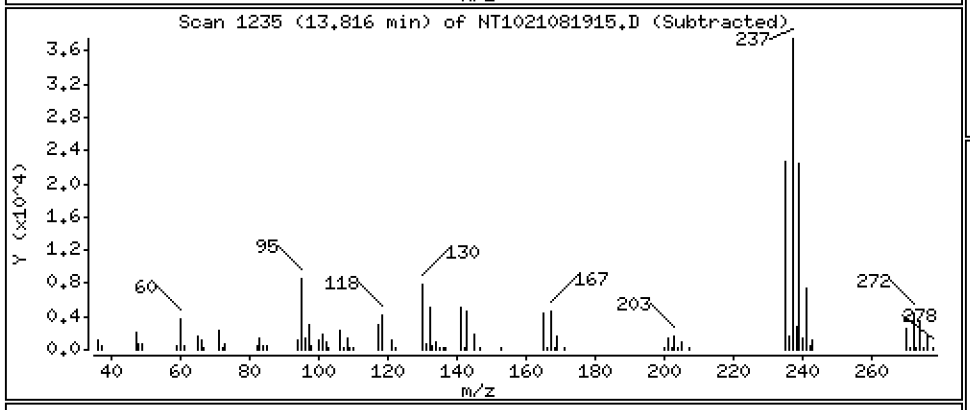
Column phase: ZB-5msi

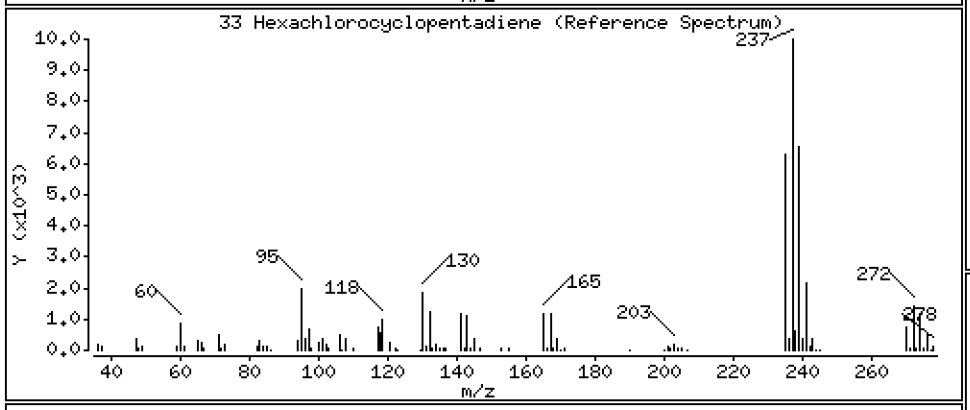
Column diameter: 0.25

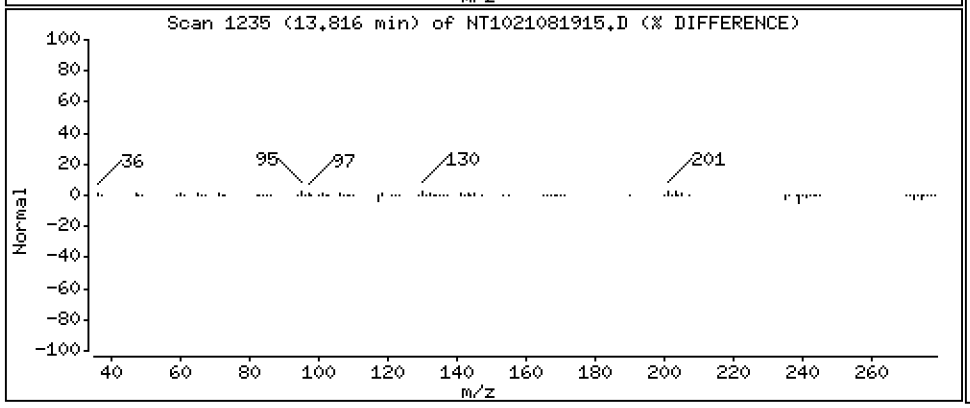
33 Hexachlorocyclopentadiene

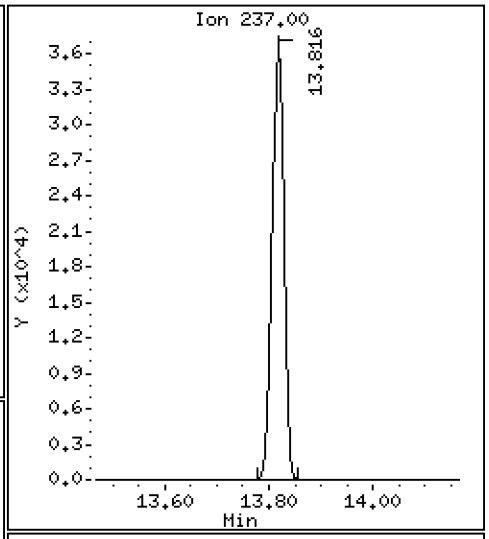
Concentration: 4.314 ug/mL

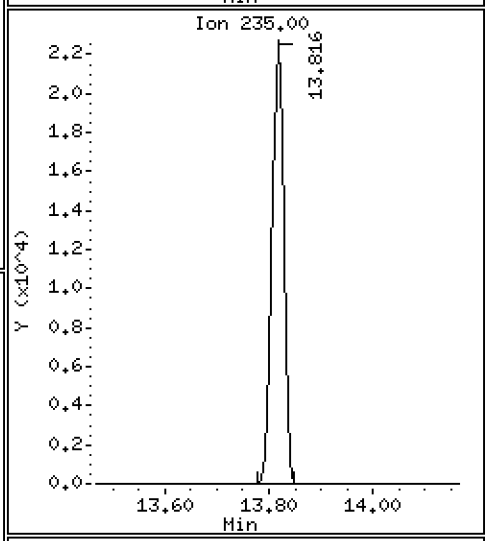


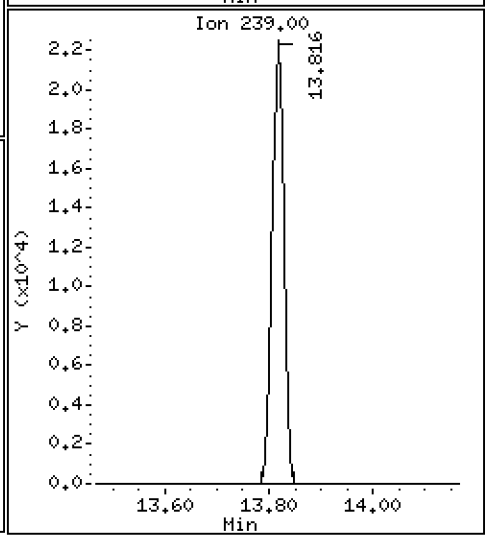












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

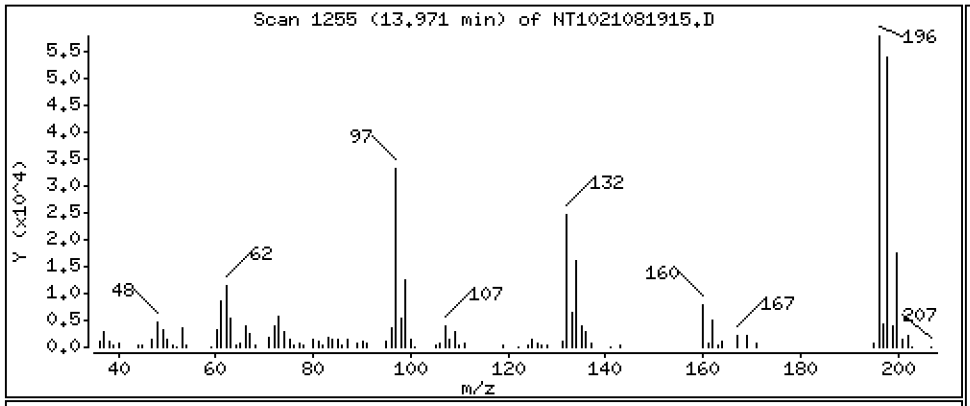
Operator: VTS

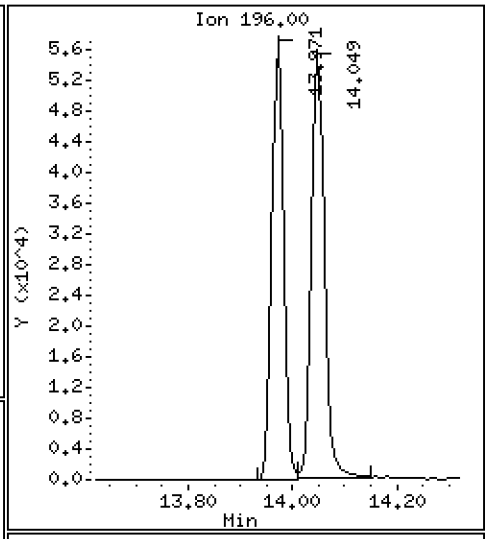
Column phase: ZB-5msi

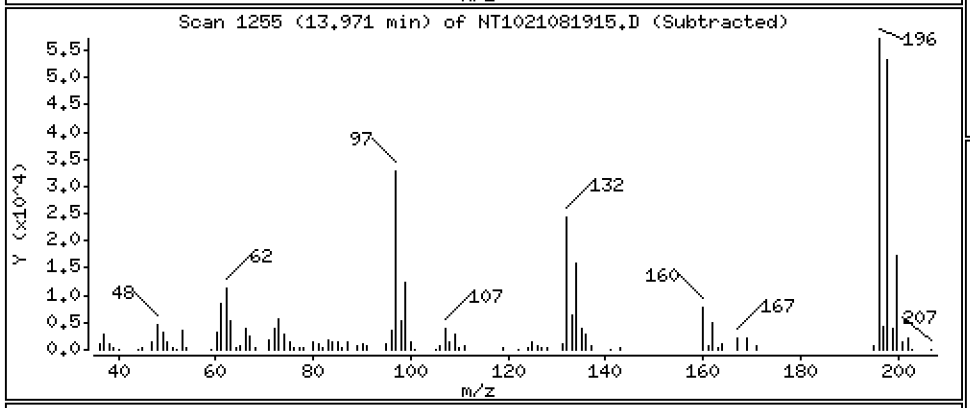
Column diameter: 0.25

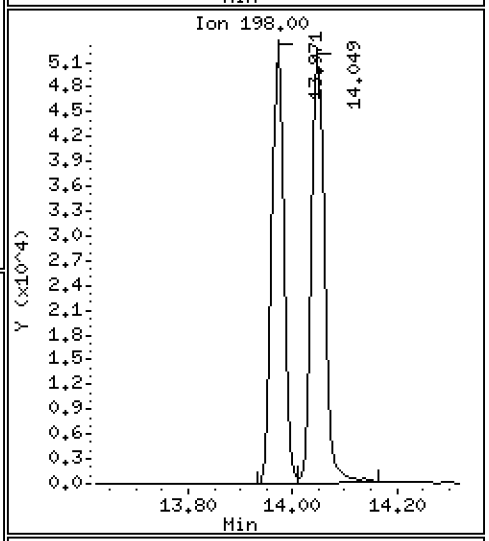
34 2,4,6-Trichlorophenol

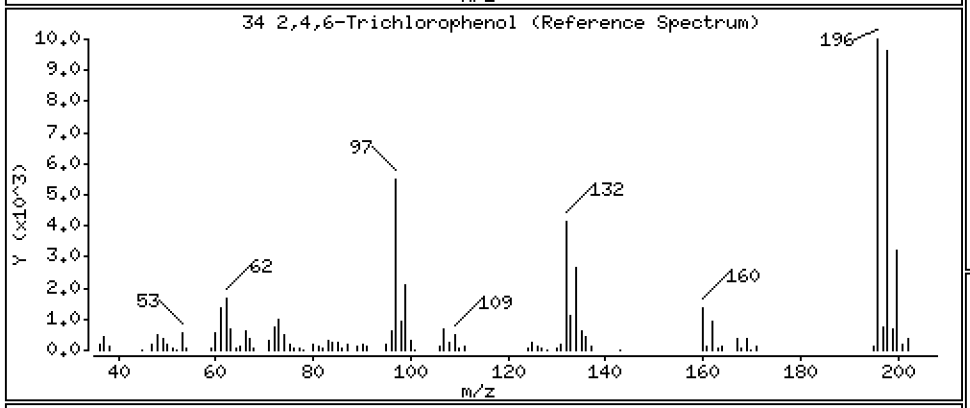
Concentration: 4.770 ug/mL

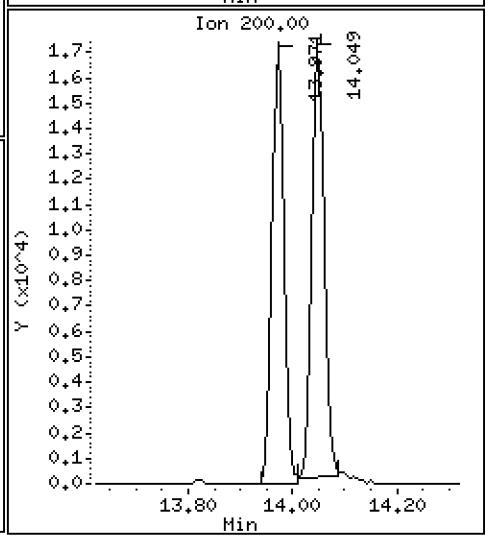


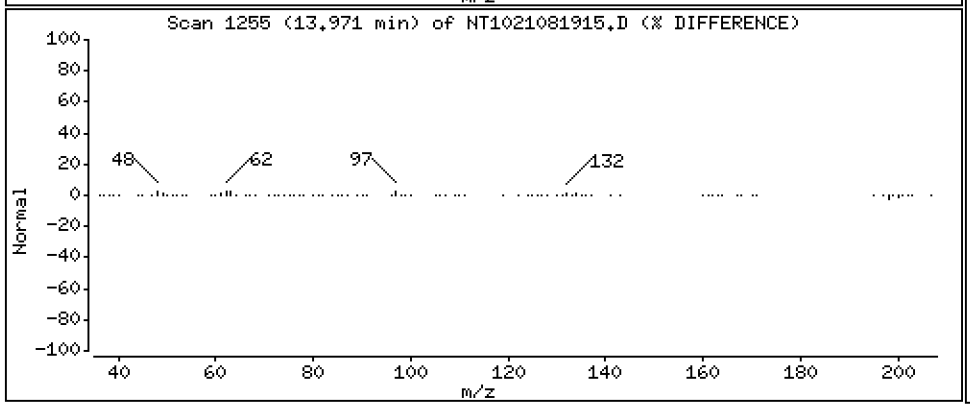












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

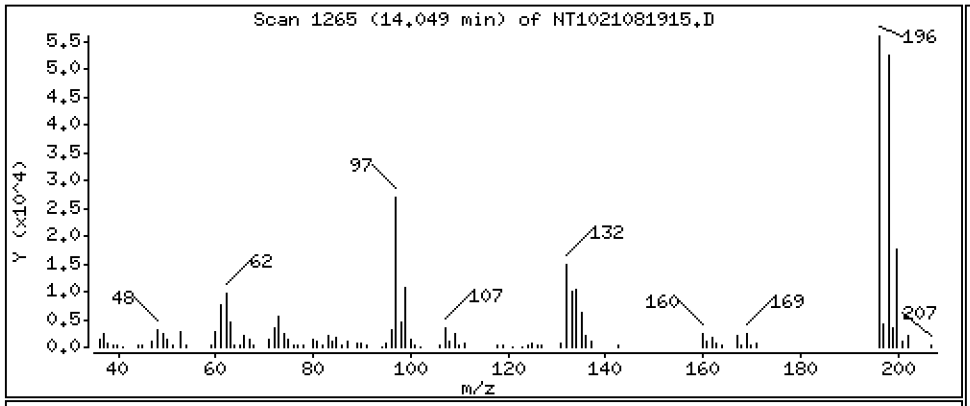
Operator: VTS

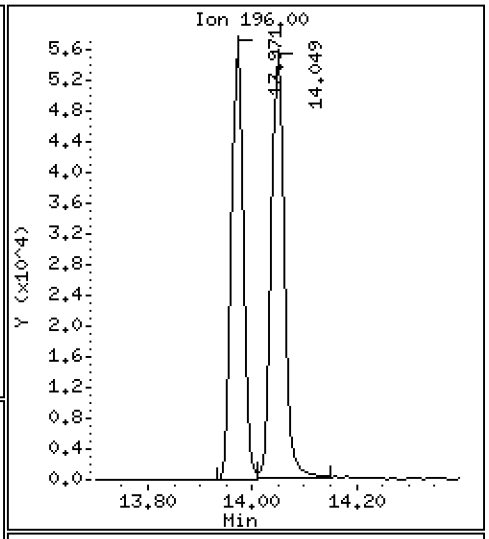
Column phase: ZB-5msi

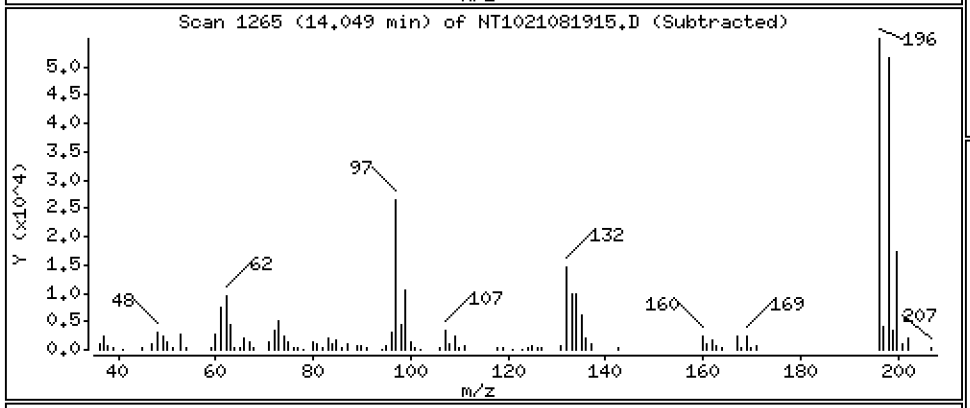
Column diameter: 0.25

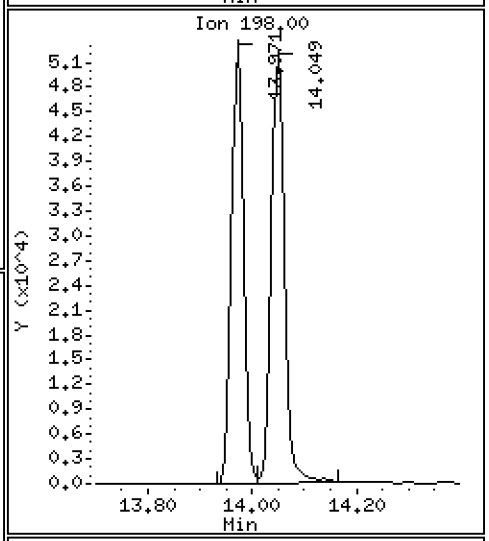
35 2,4,5-Trichlorophenol

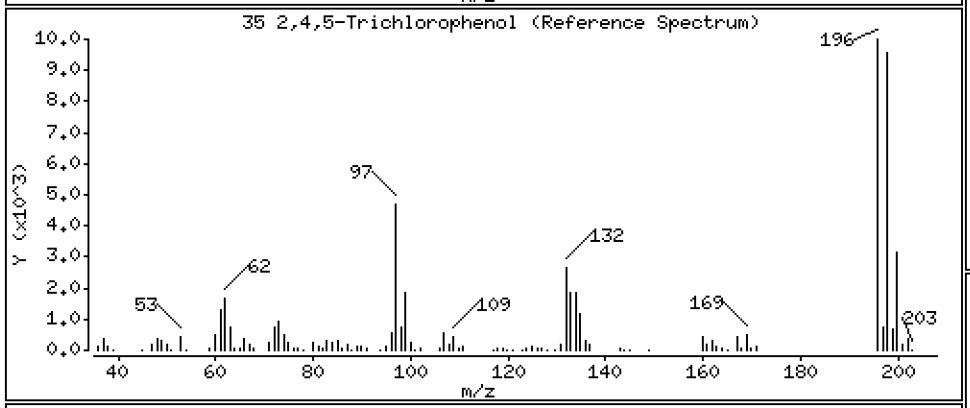
Concentration: 4.914 ug/mL

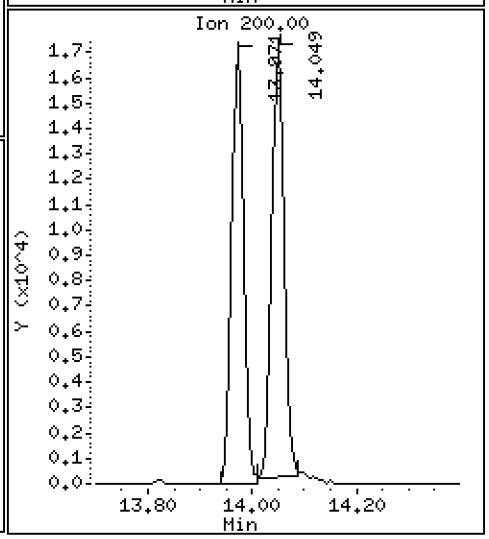


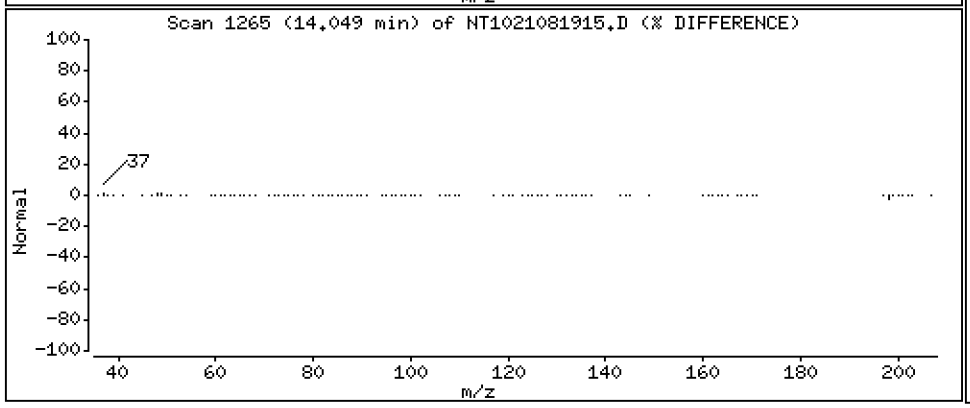












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

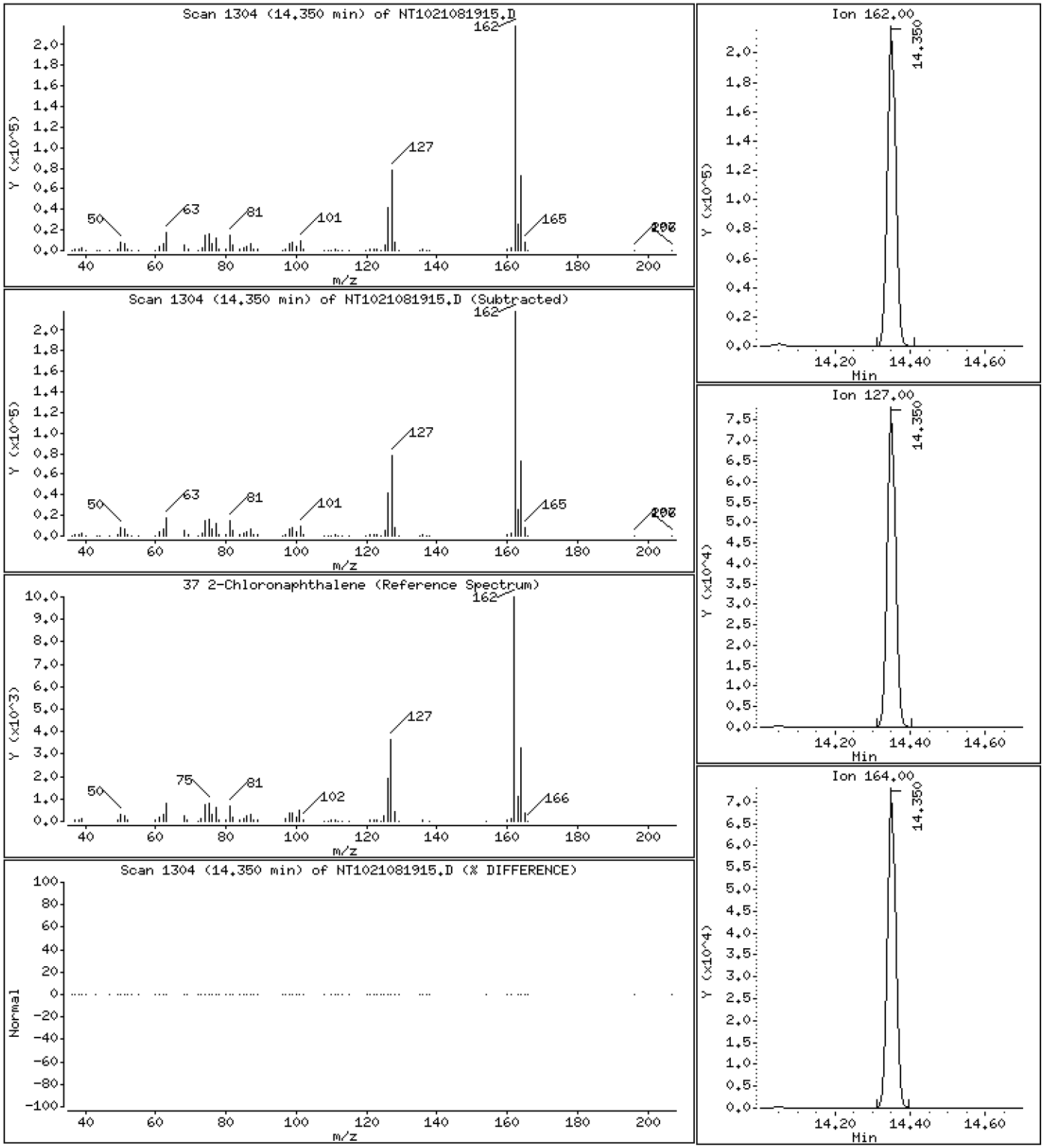
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

37 2-Chloronaphthalene

Concentration: 5.585 ug/mL



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

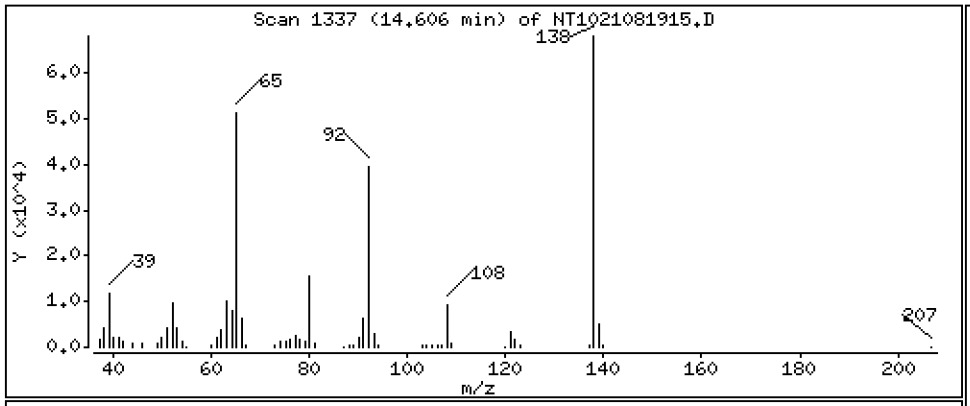
Operator: VTS

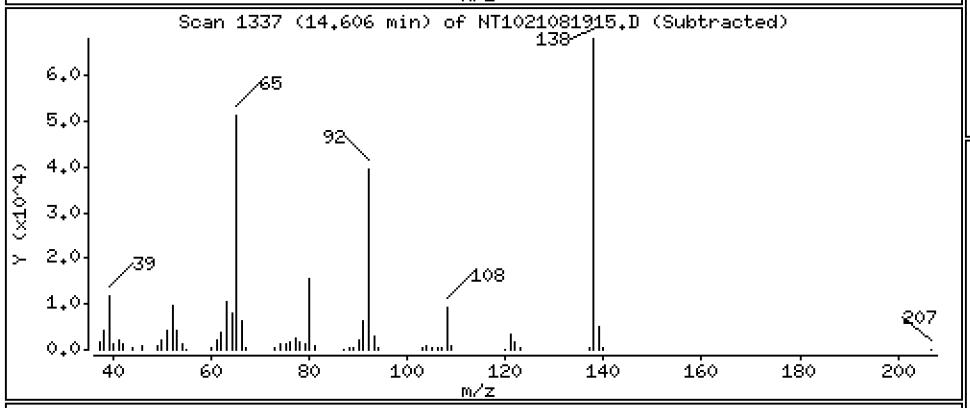
Column phase: ZB-5msi

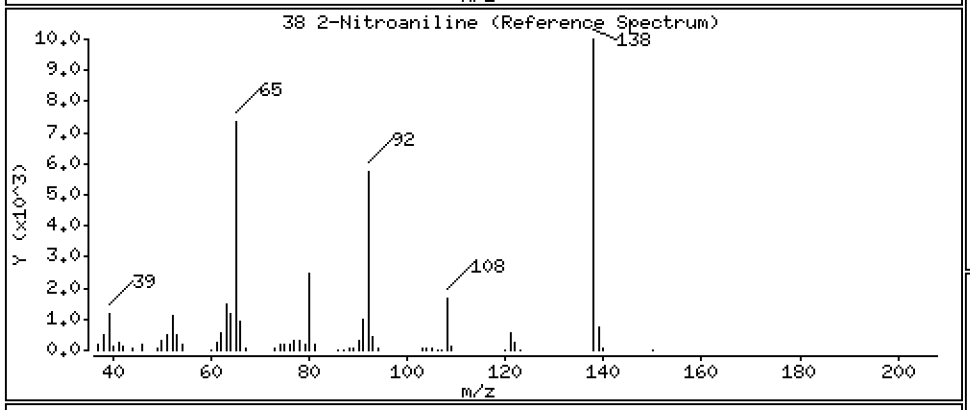
Column diameter: 0.25

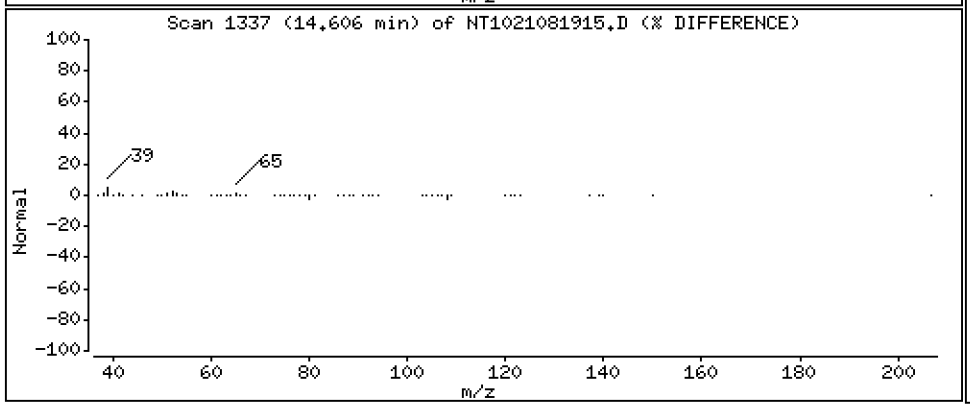
38 2-Nitroaniline

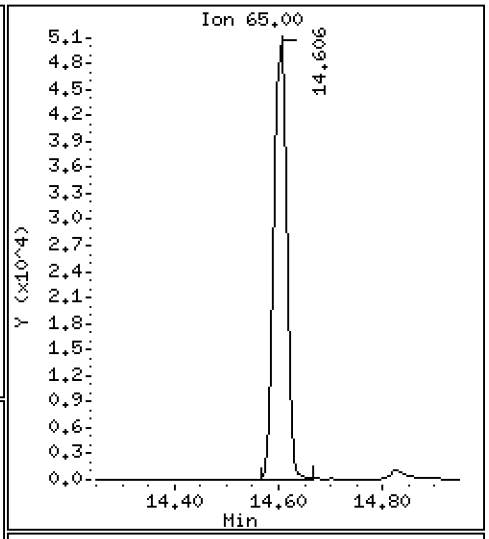
Concentration: 4.972 ug/mL

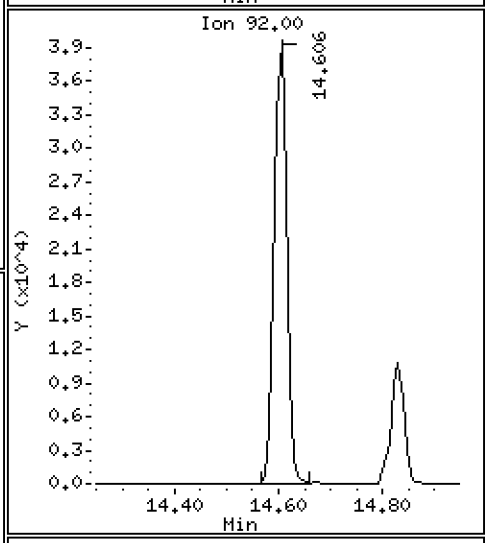


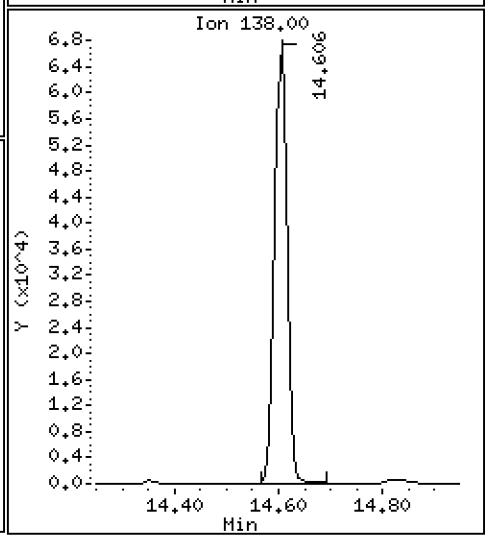












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

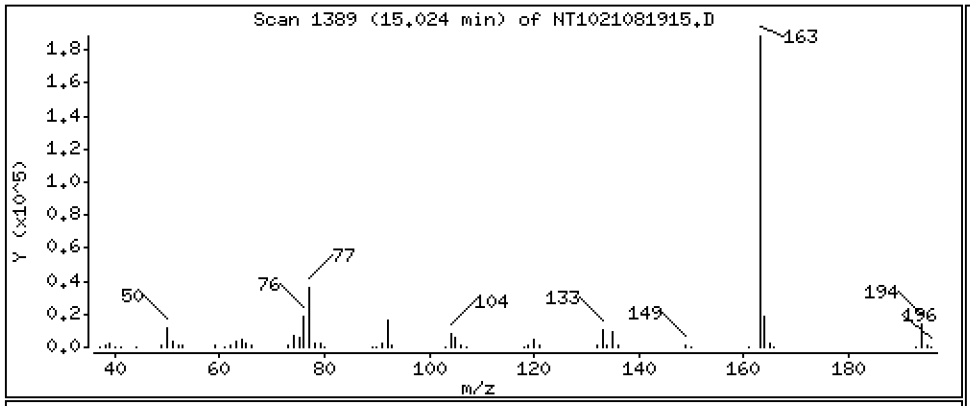
Operator: VTS

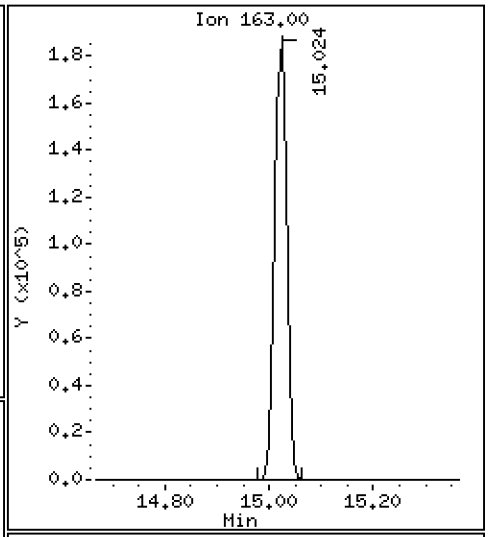
Column phase: ZB-5msi

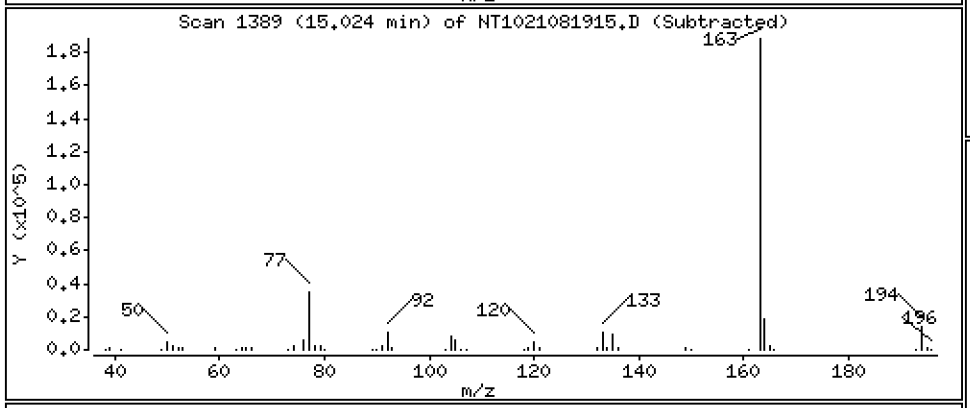
Column diameter: 0.25

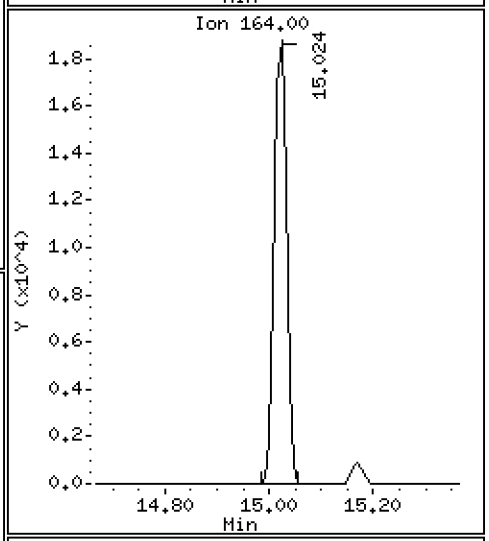
39 Dimethylphthalate

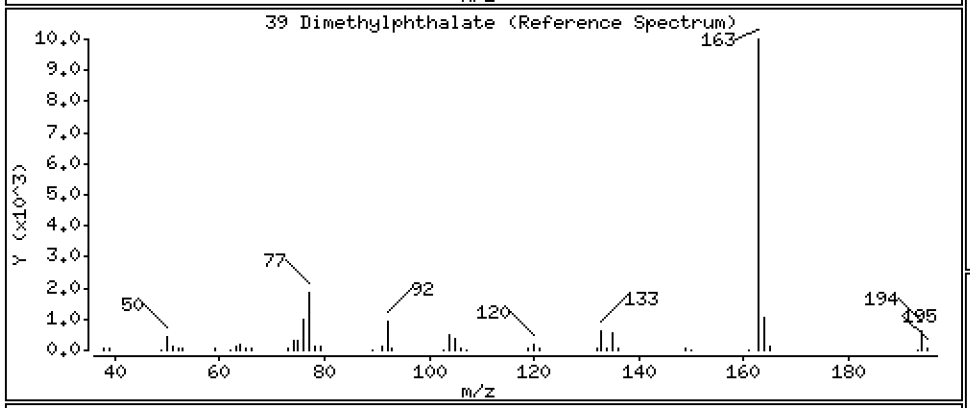
Concentration: 4.979 ug/mL

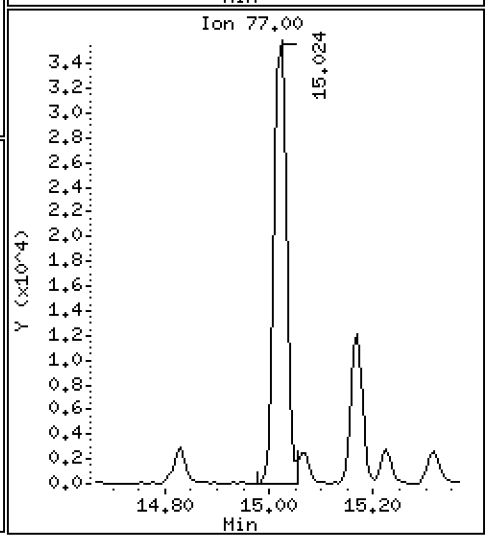


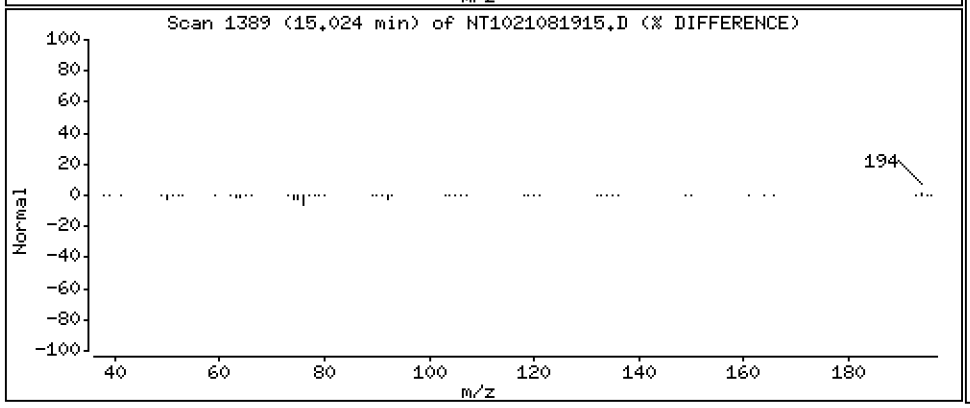












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

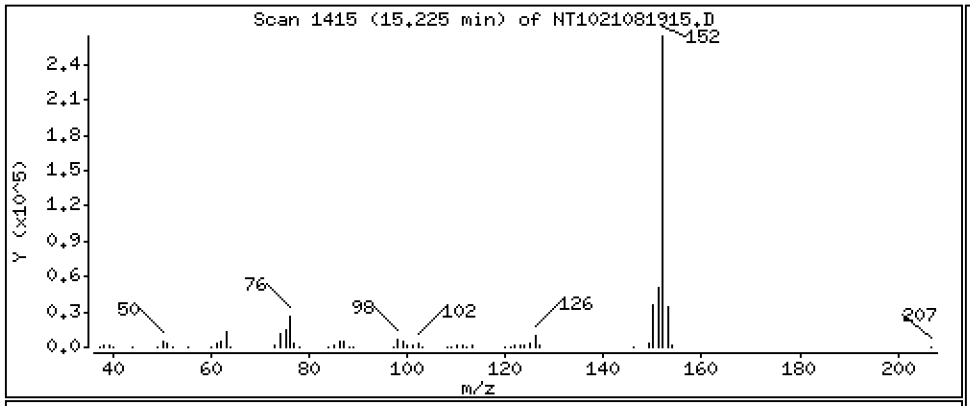
Operator: VTS

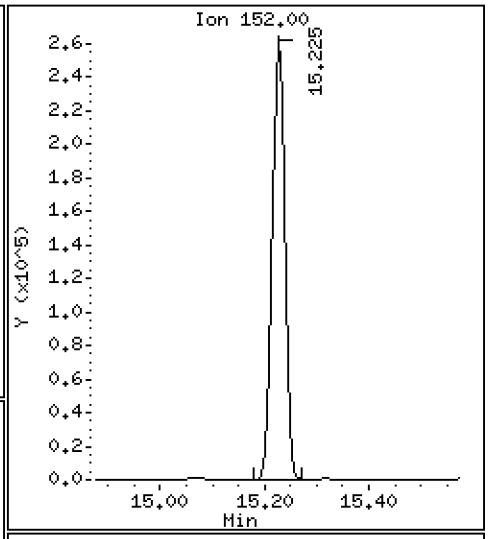
Column phase: ZB-5msi

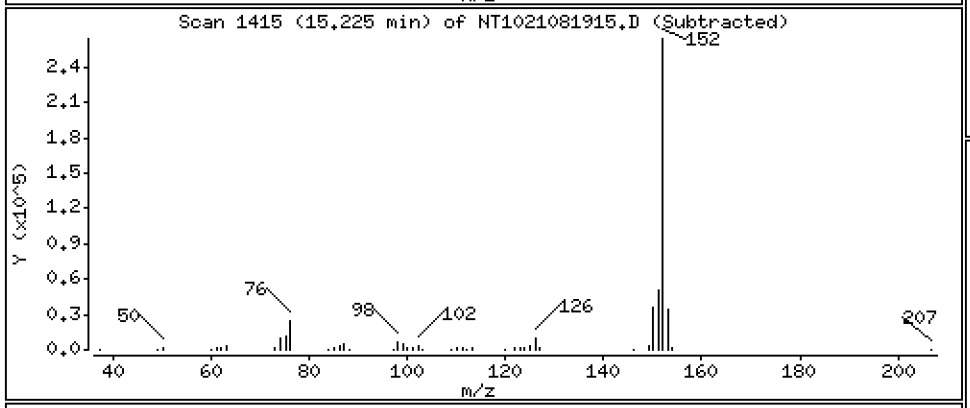
Column diameter: 0.25

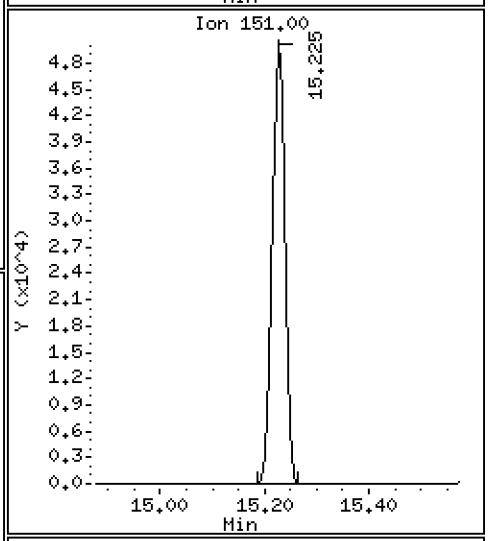
40 Acenaphthylene

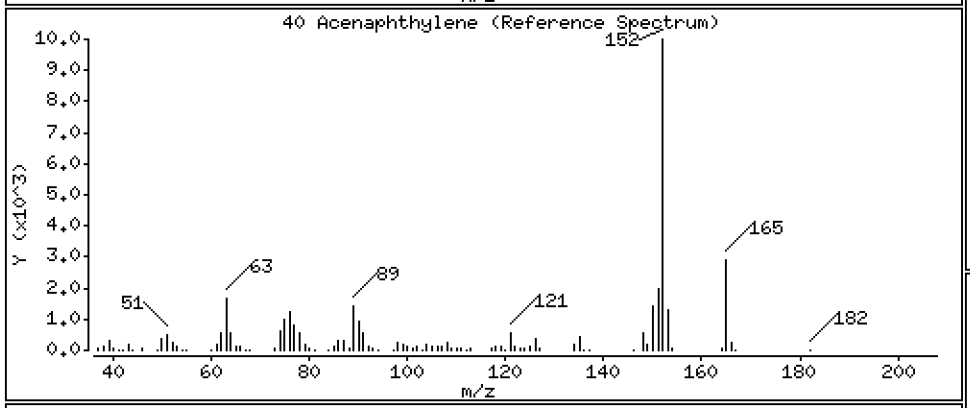
Concentration: 4.796 ug/mL

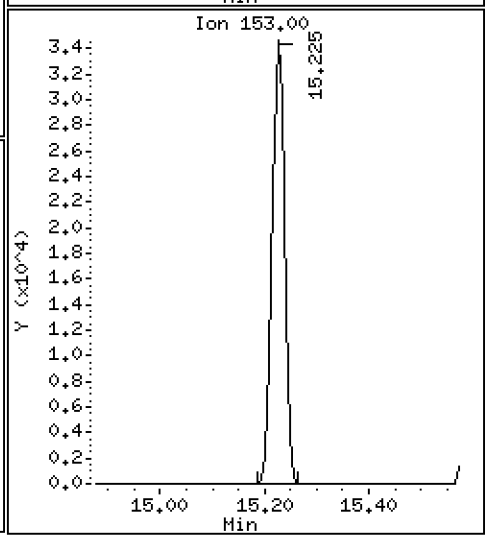


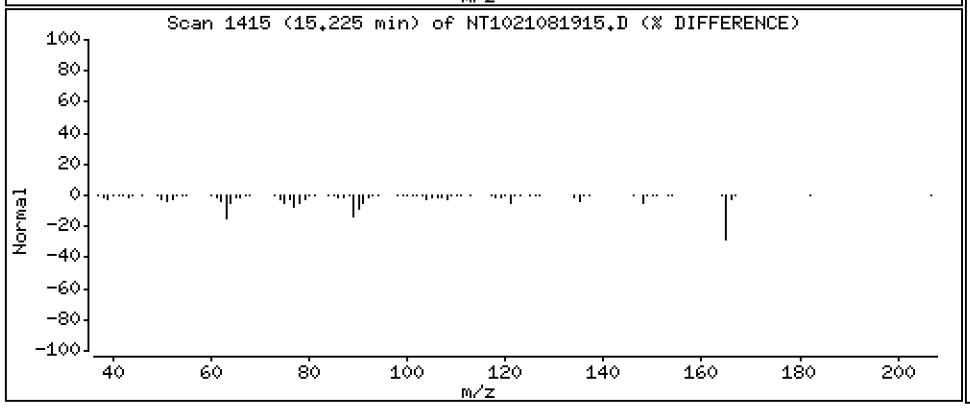












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

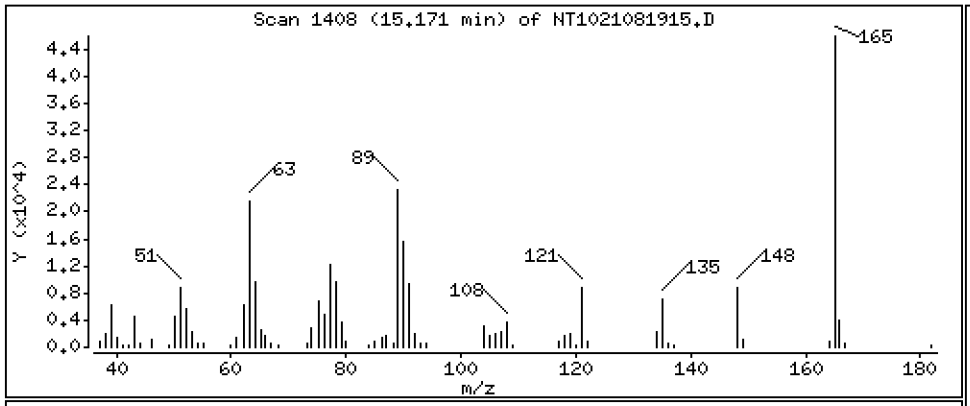
Operator: VTS

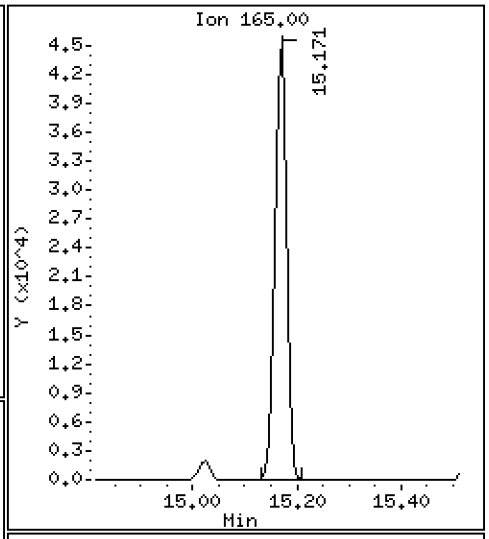
Column phase: ZB-5msi

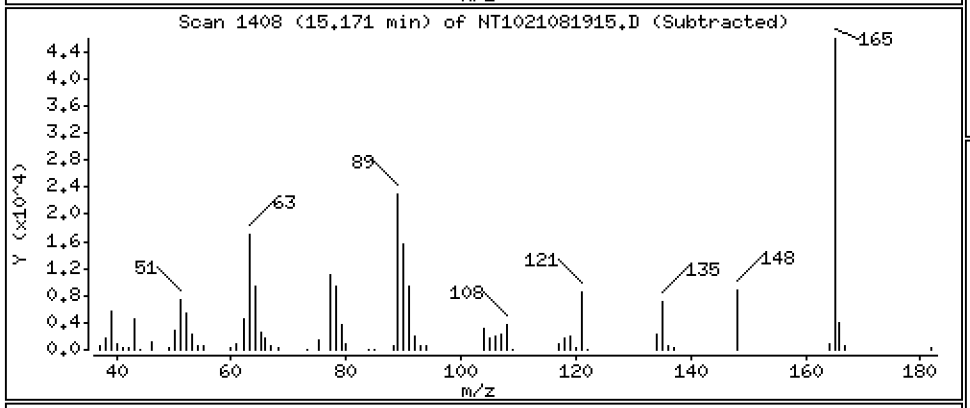
Column diameter: 0.25

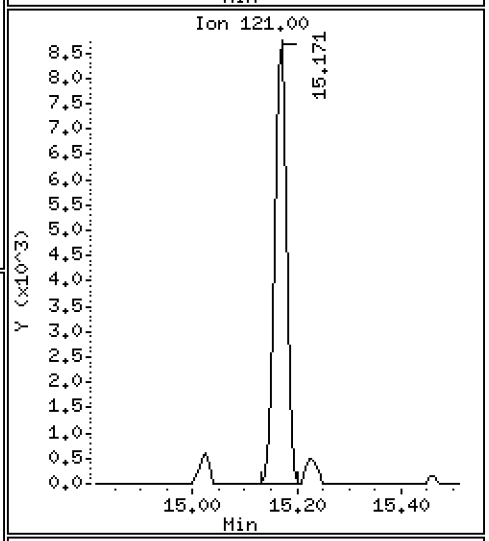
41 2,6-Dinitrotoluene

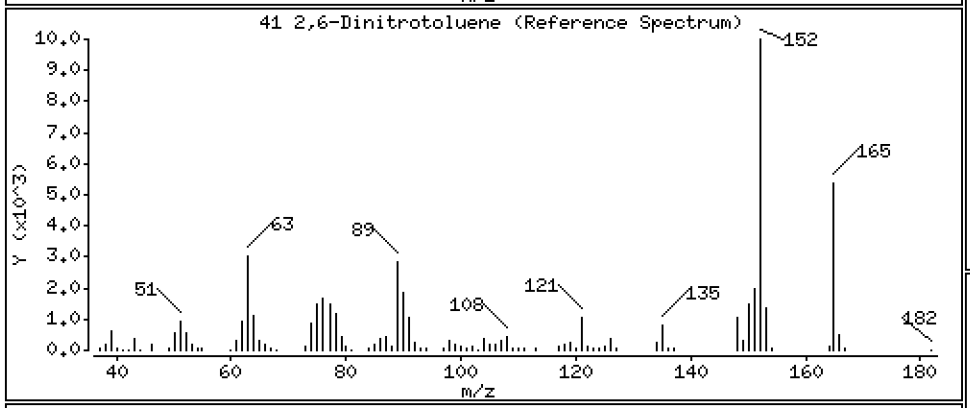
Concentration: 5.369 ug/mL

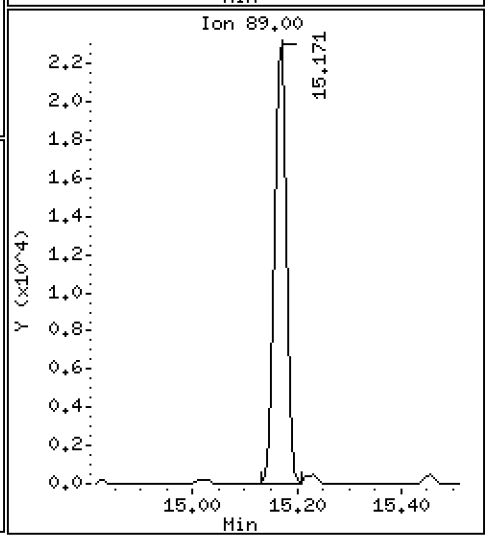


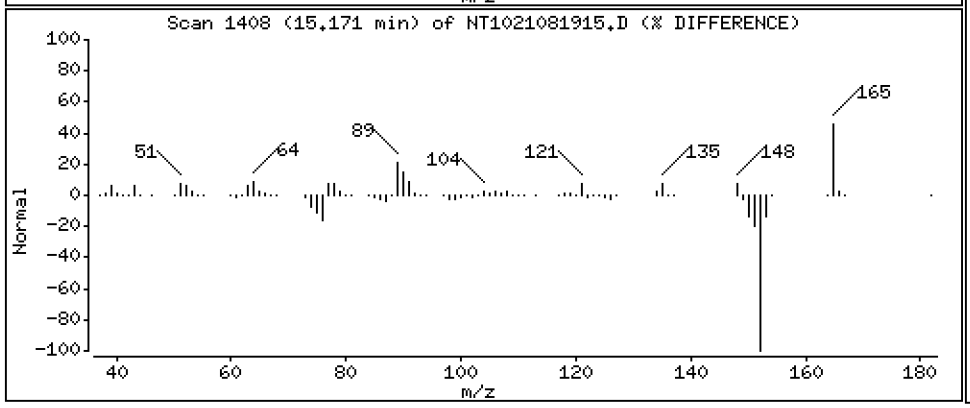












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

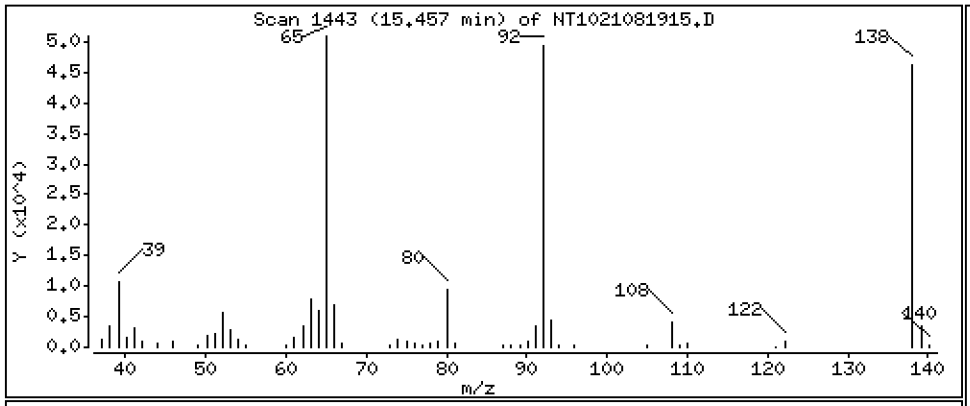
Operator: VTS

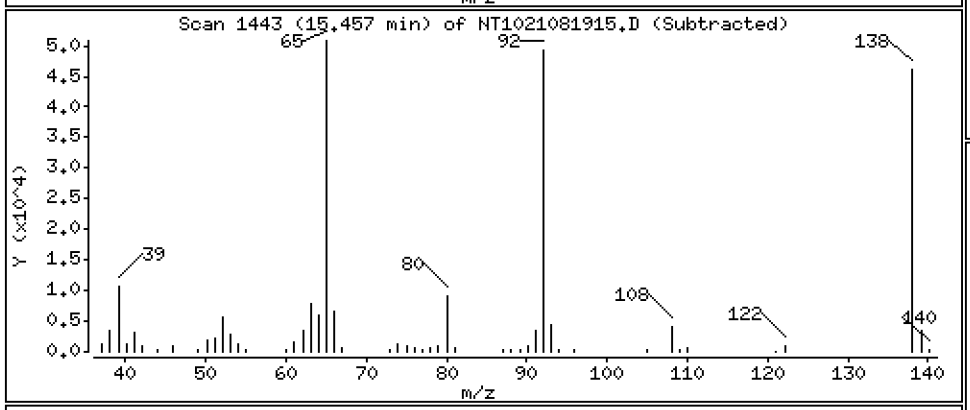
Column phase: ZB-5msi

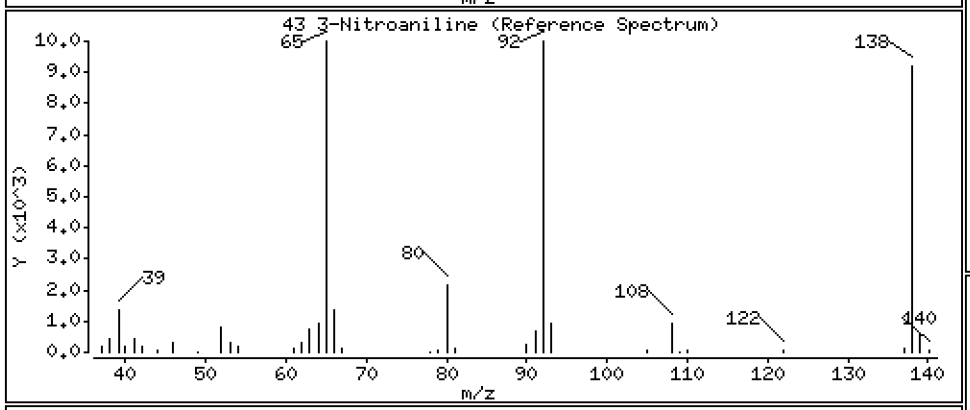
Column diameter: 0.25

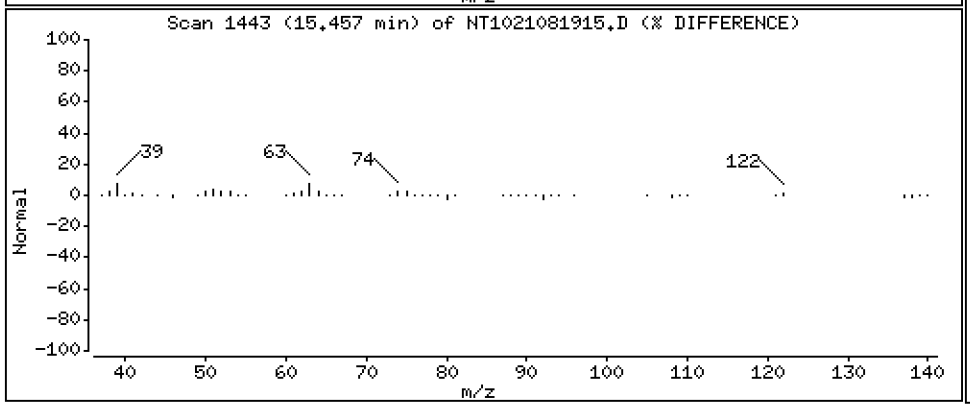
43 3-Nitroaniline

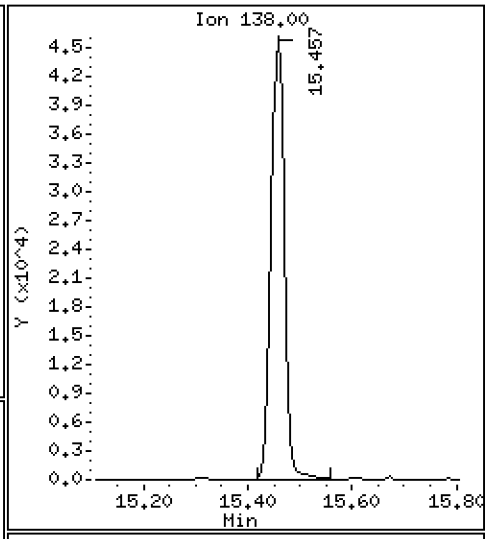
Concentration: 4.562 ug/mL

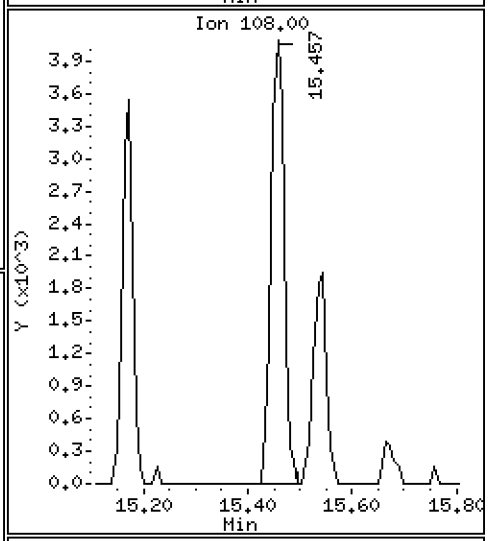


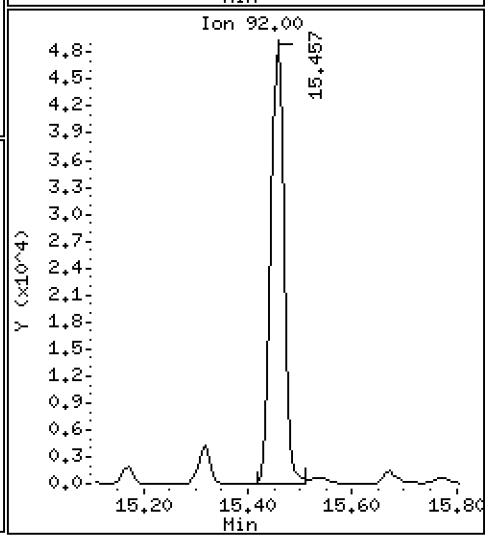












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

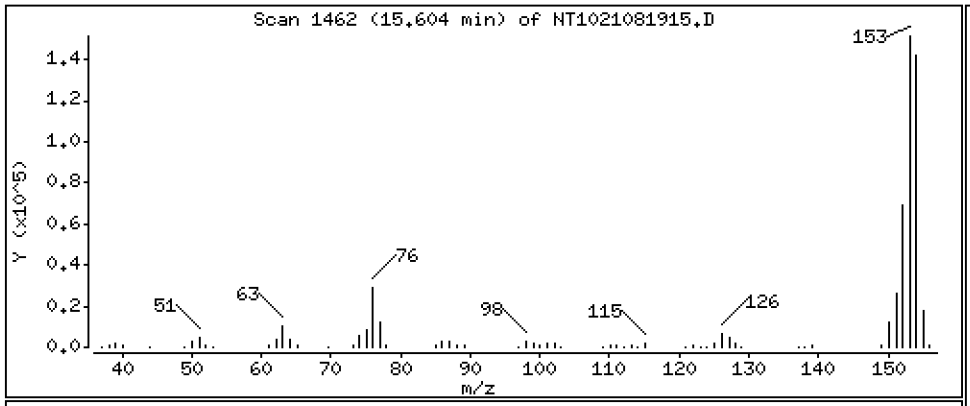
Operator: VTS

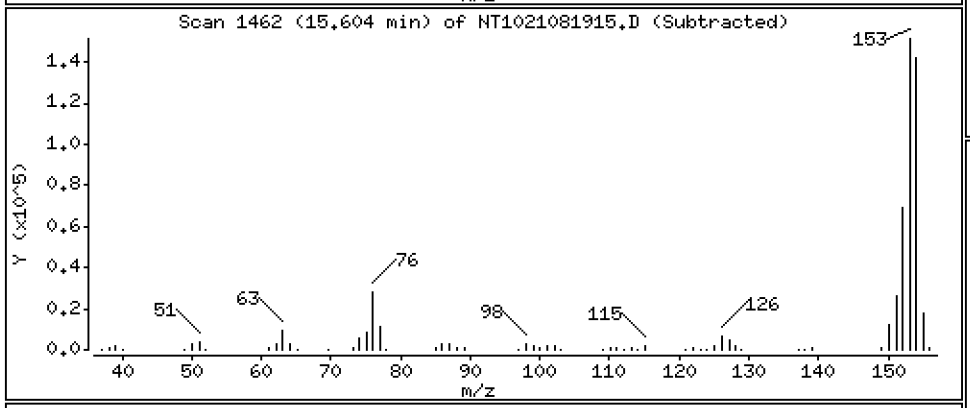
Column phase: ZB-5msi

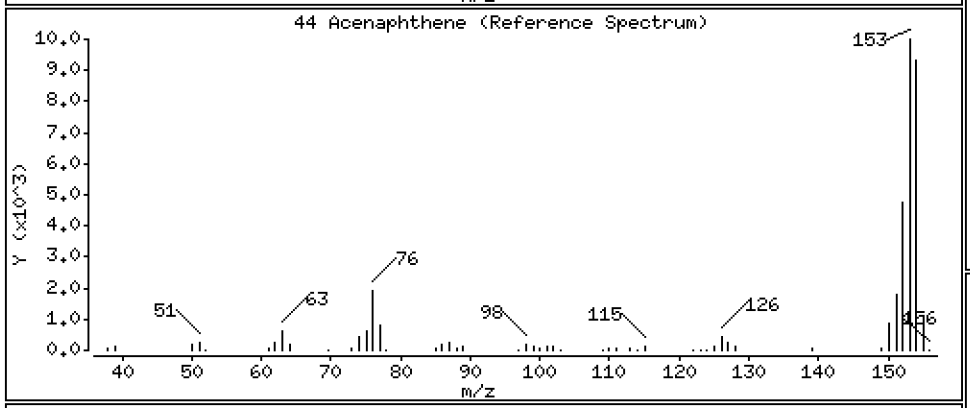
Column diameter: 0.25

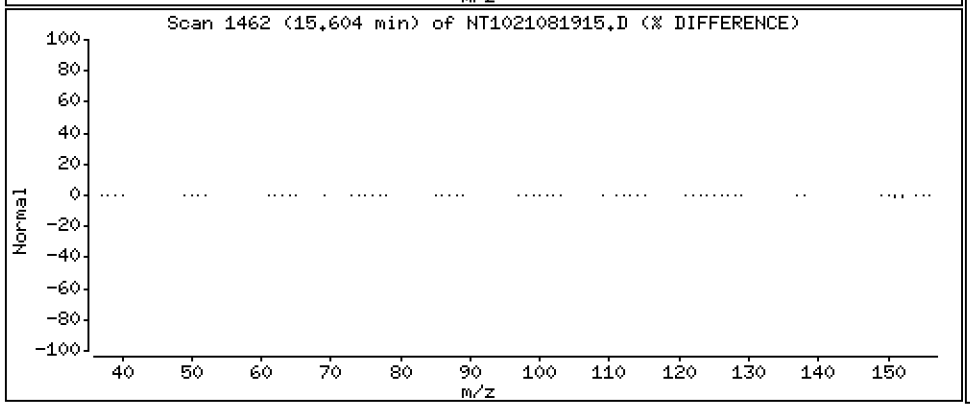
44 Acenaphthene

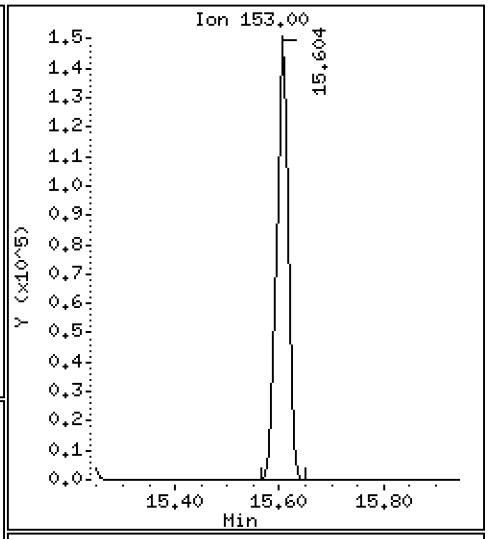
Concentration: 4.975 ug/mL

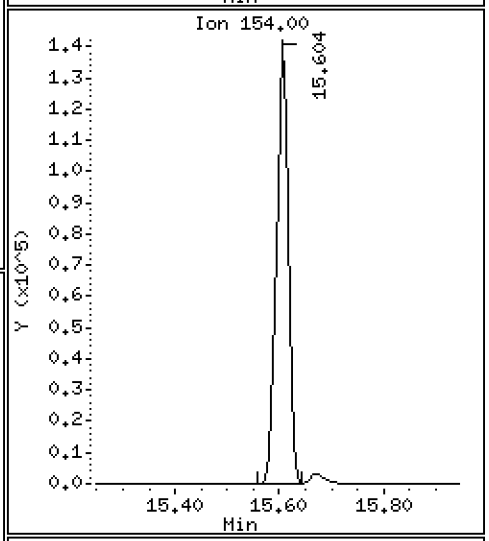


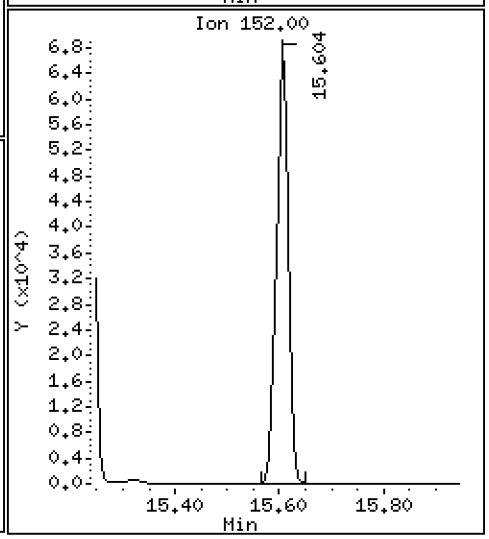












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

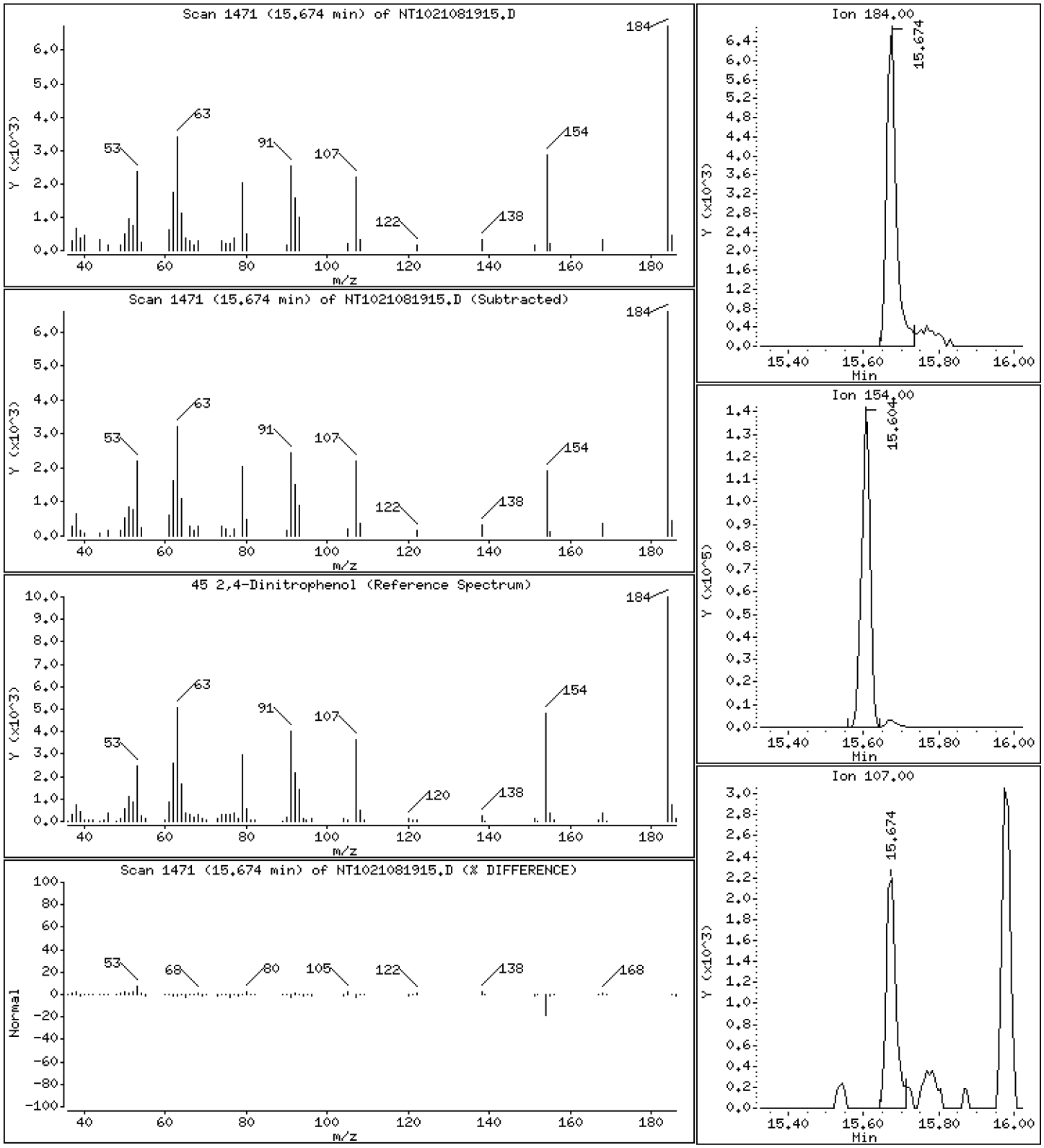
Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25

45 2,4-Dinitrophenol

Concentration: 1.665 ug/mL



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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

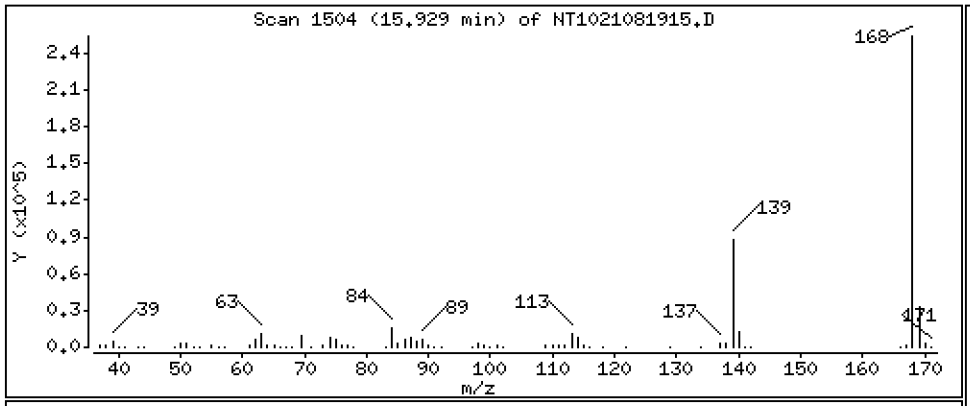
Operator: VTS

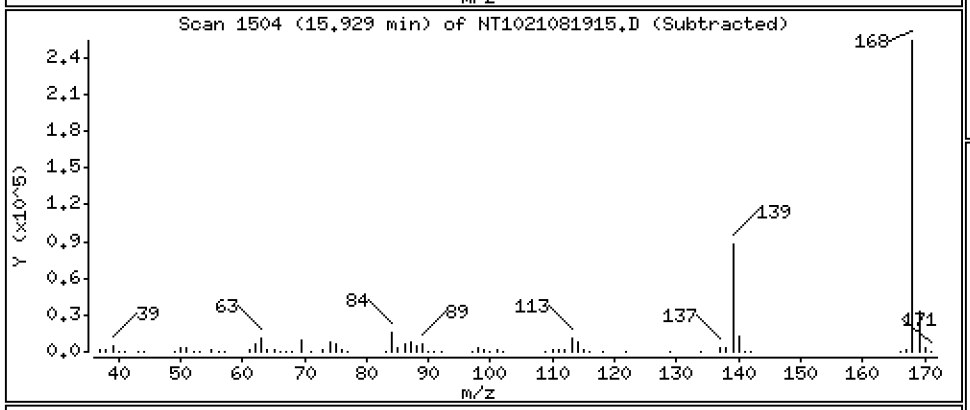
Column phase: ZB-5msi

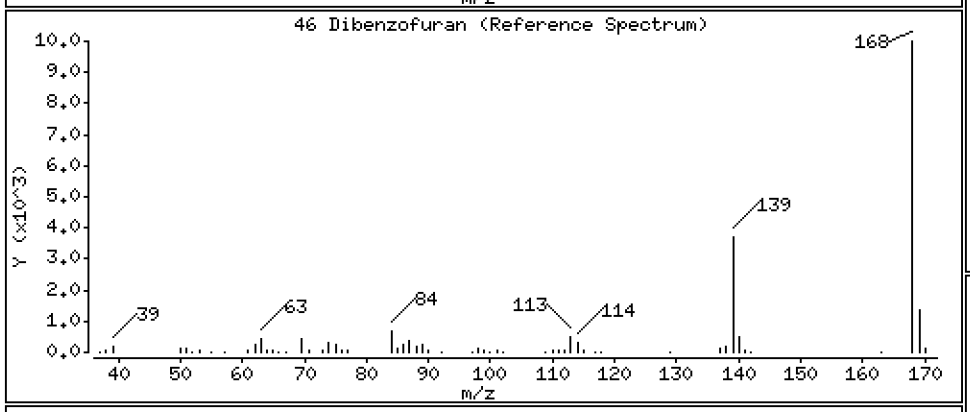
Column diameter: 0.25

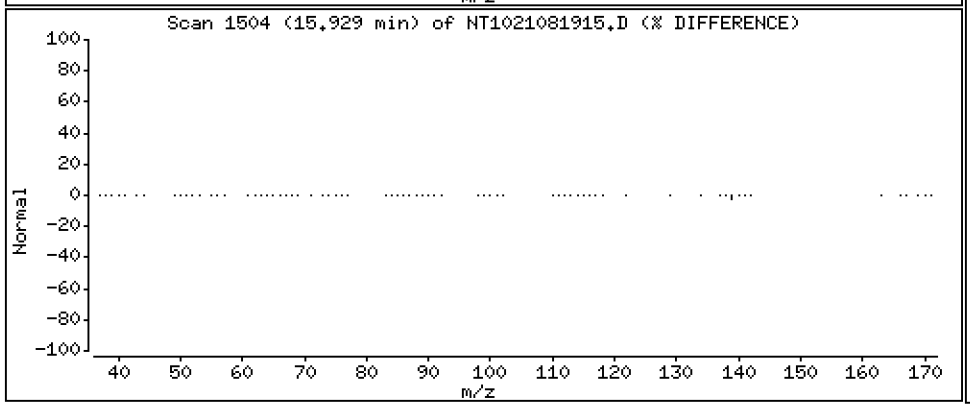
46 Dibenzofuran

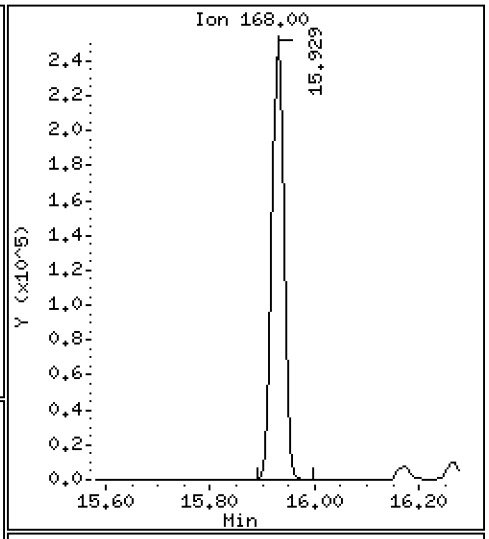
Concentration: 4.691 ug/mL

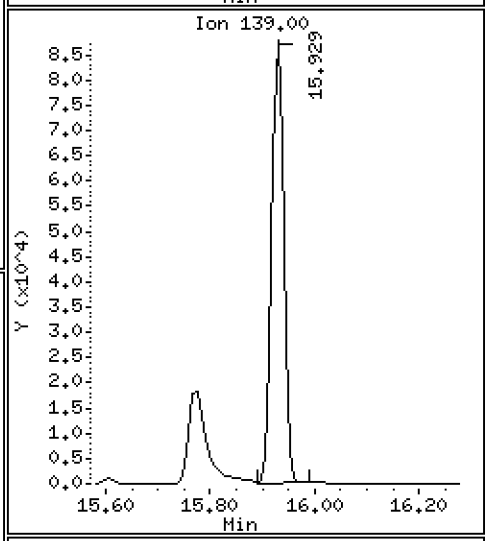


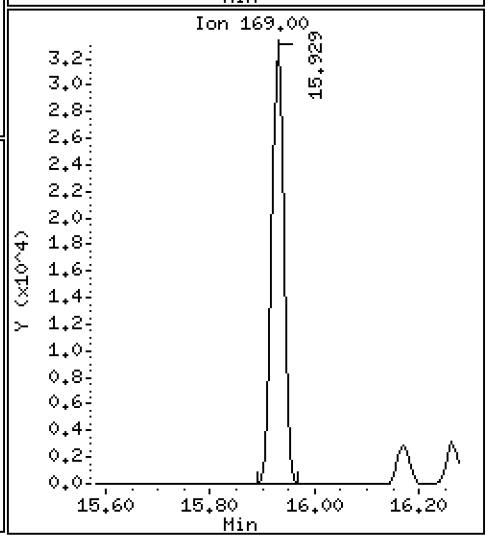












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

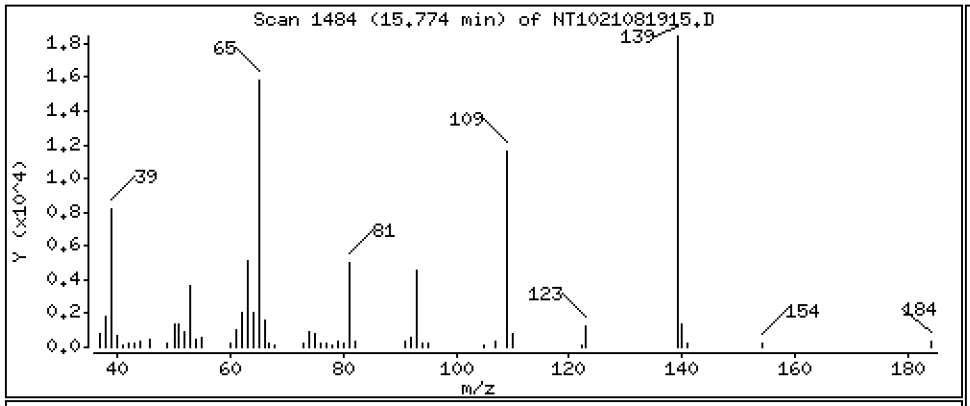
Operator: VTS

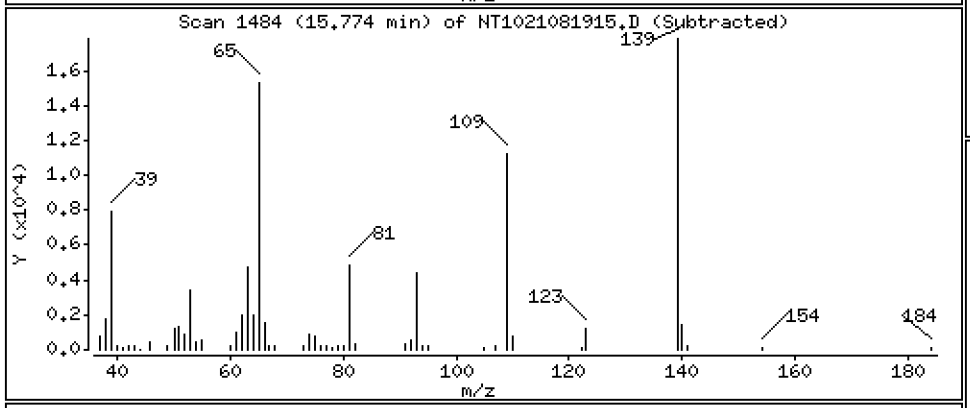
Column phase: ZB-5msi

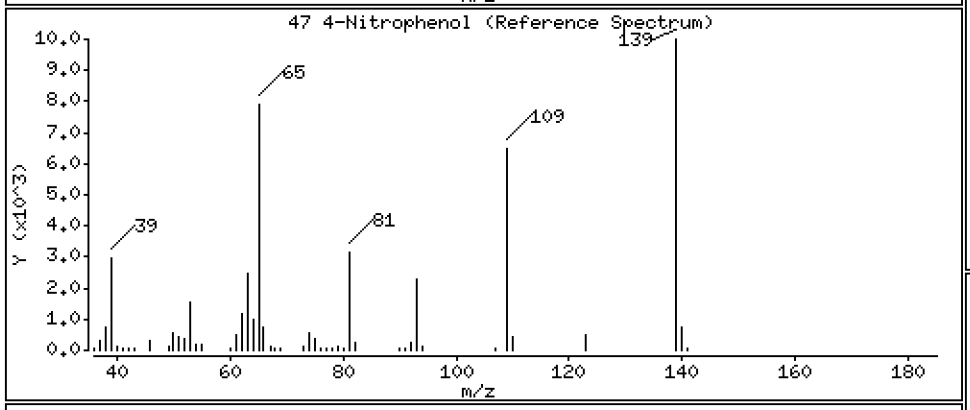
Column diameter: 0.25

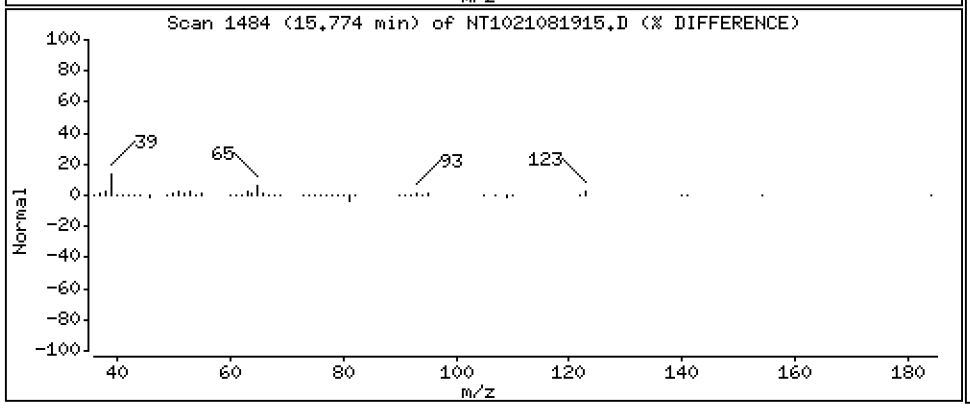
47 4-Nitrophenol

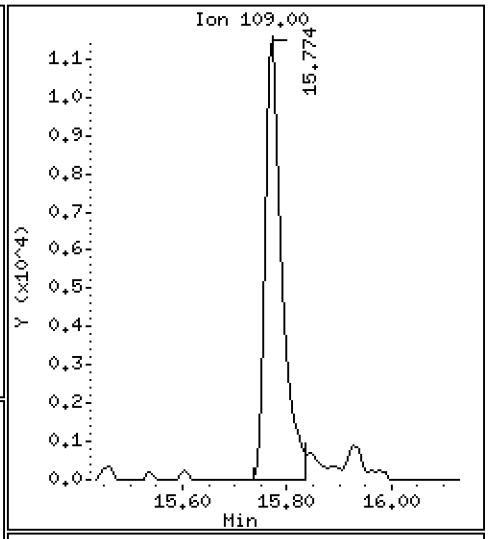
Concentration: 4.018 ug/mL

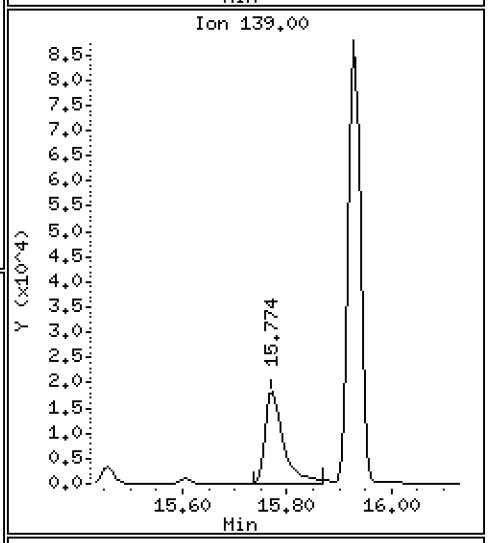


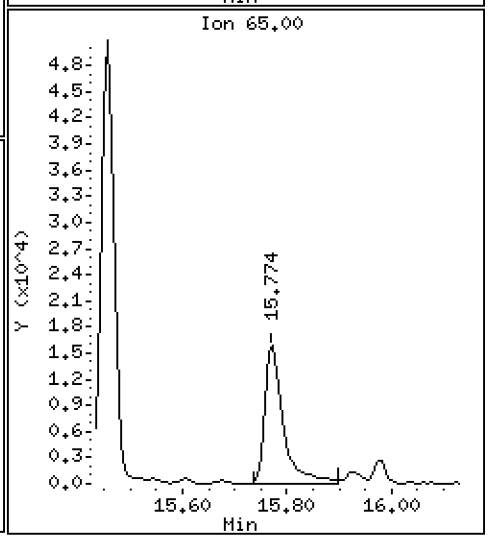












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

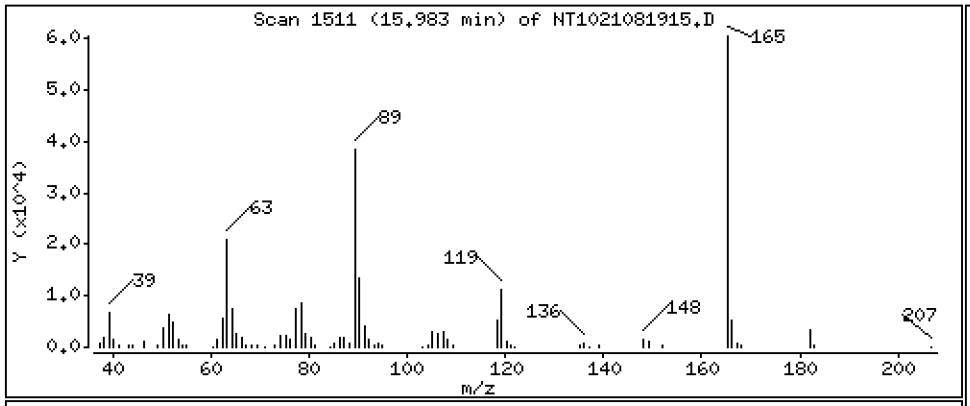
Operator: VTS

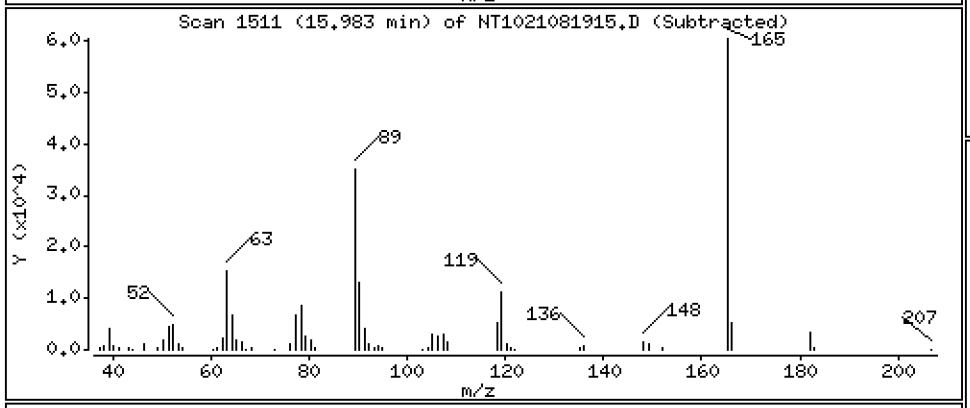
Column phase: ZB-5msi

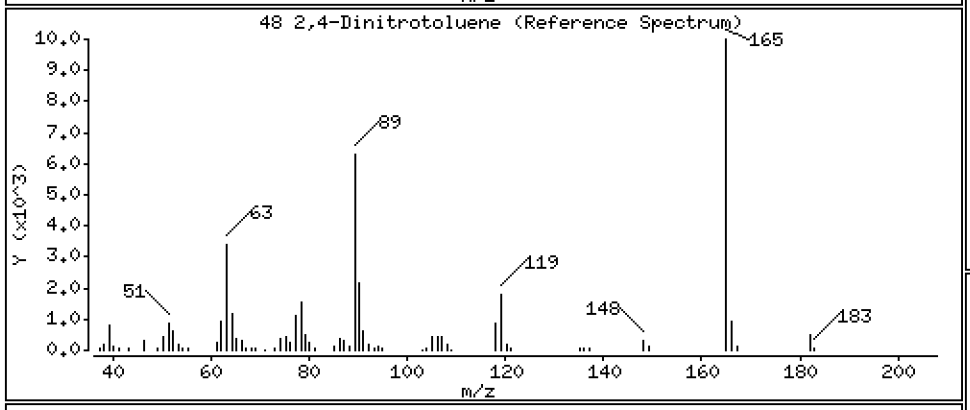
Column diameter: 0.25

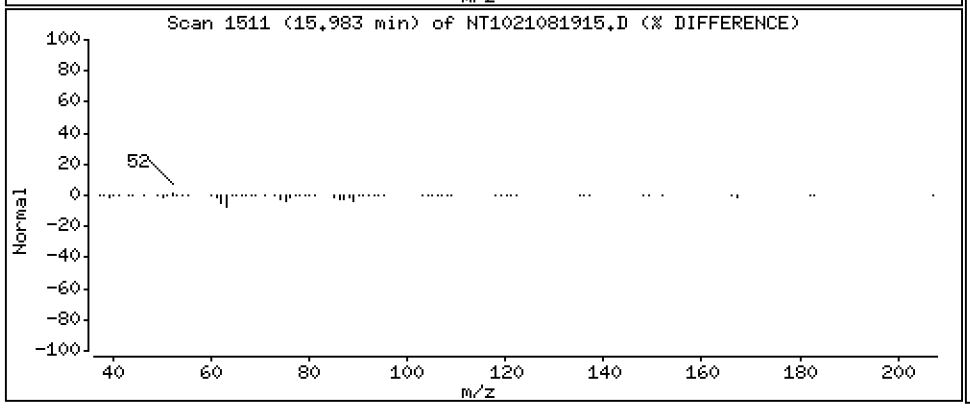
48 2,4-Dinitrotoluene

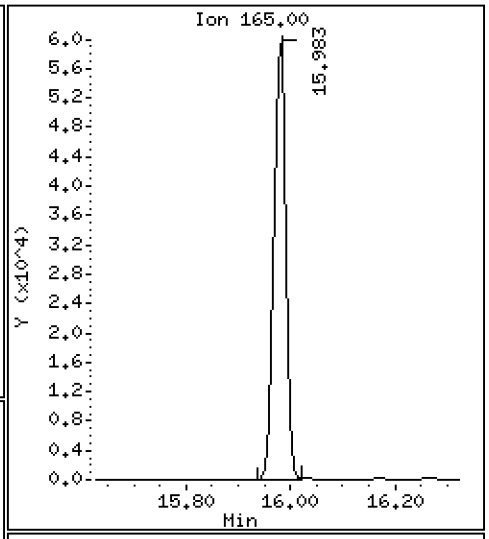
Concentration: 5.106 ug/mL

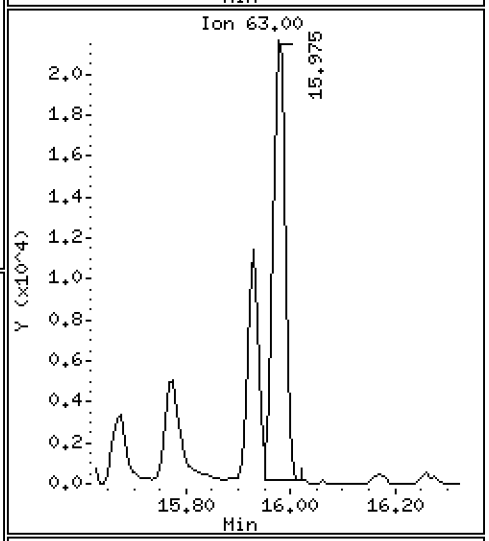


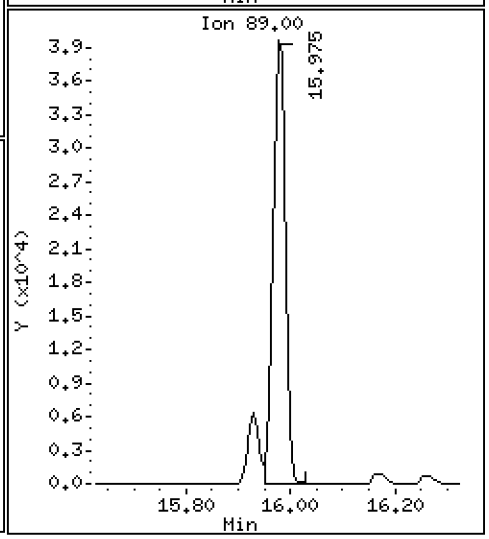












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

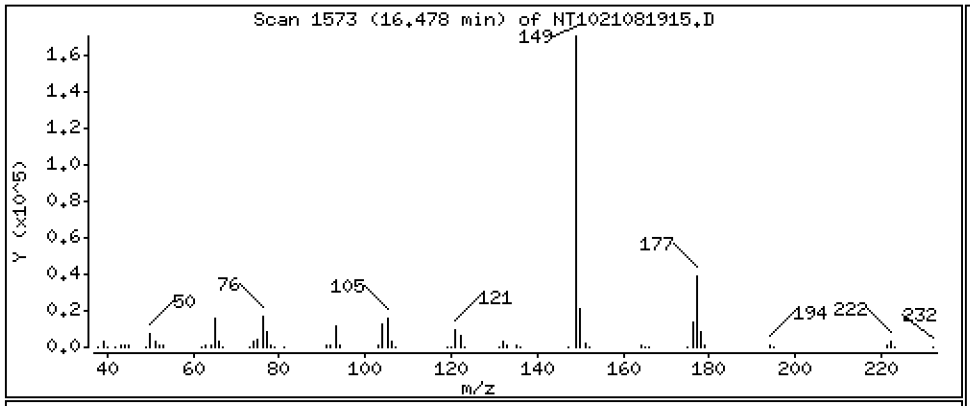
Operator: VTS

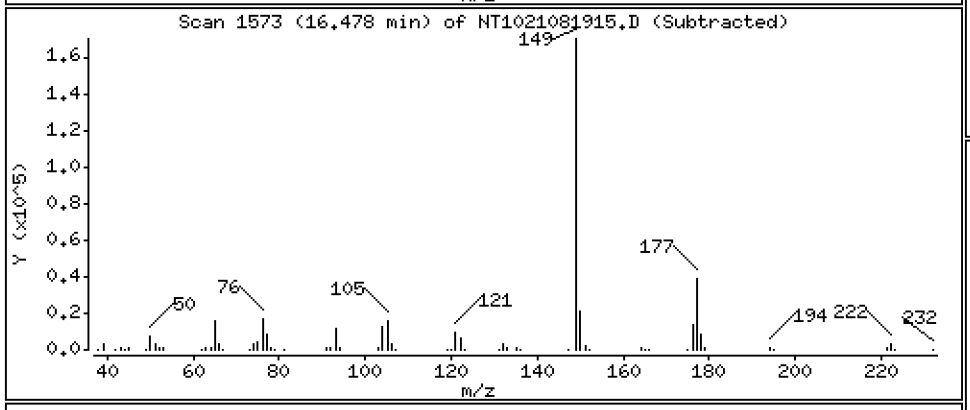
Column phase: ZB-5msi

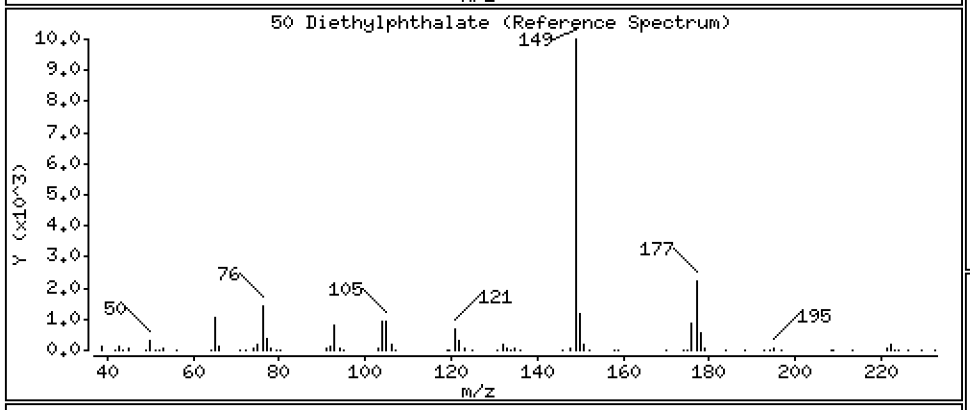
Column diameter: 0.25

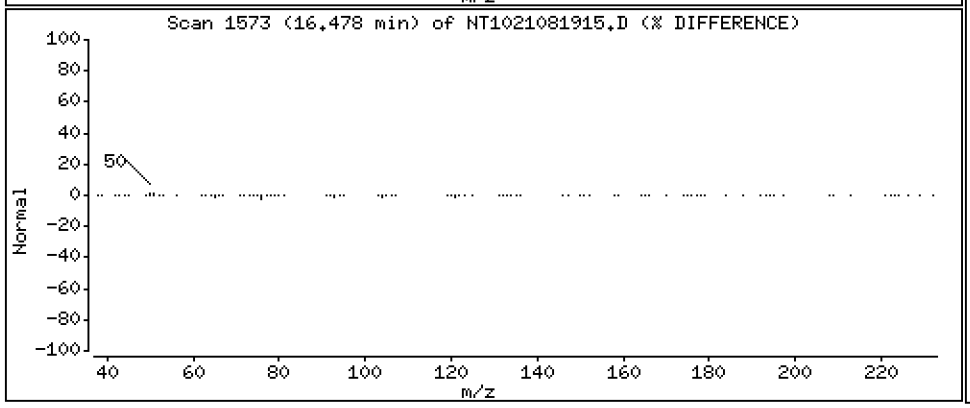
50 Diethylphthalate

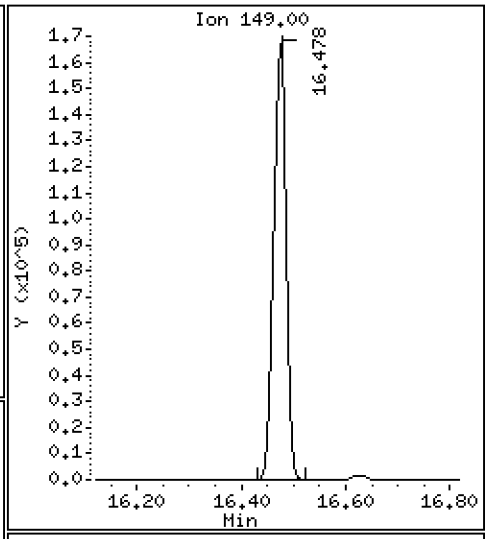
Concentration: 5.096 ug/mL

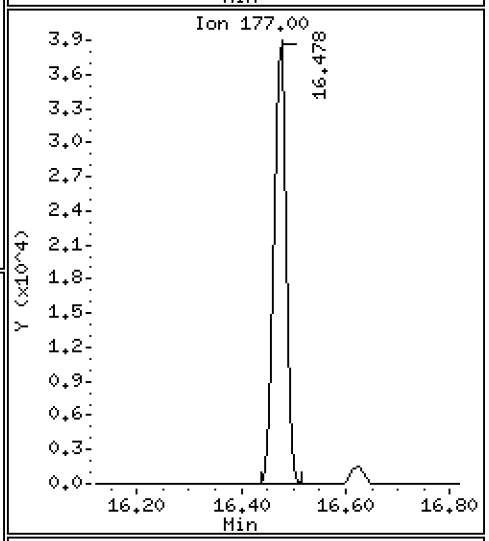


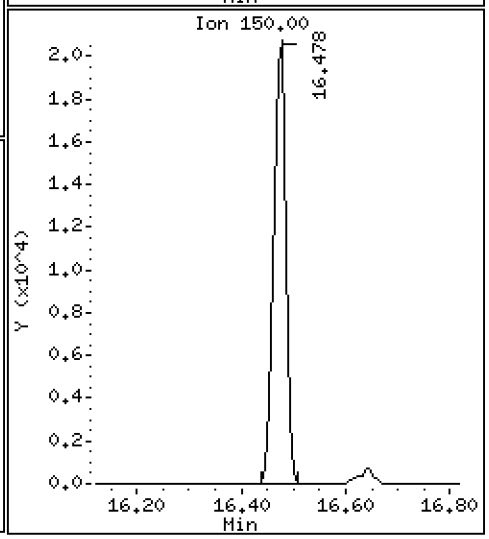












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

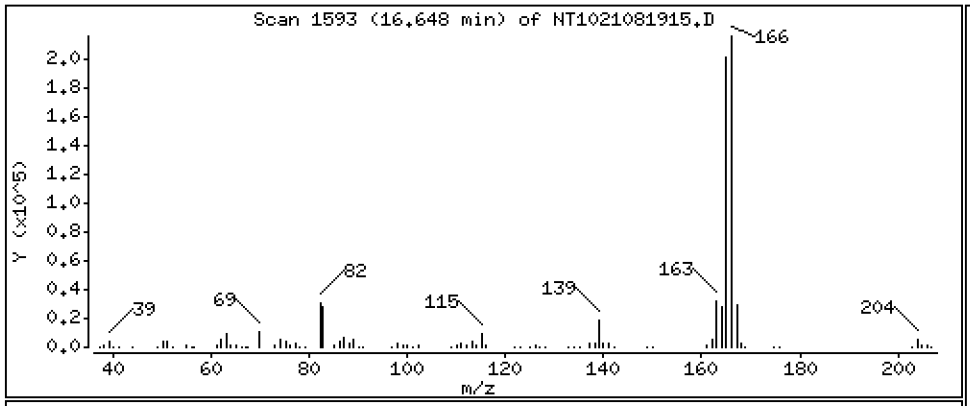
Operator: VTS

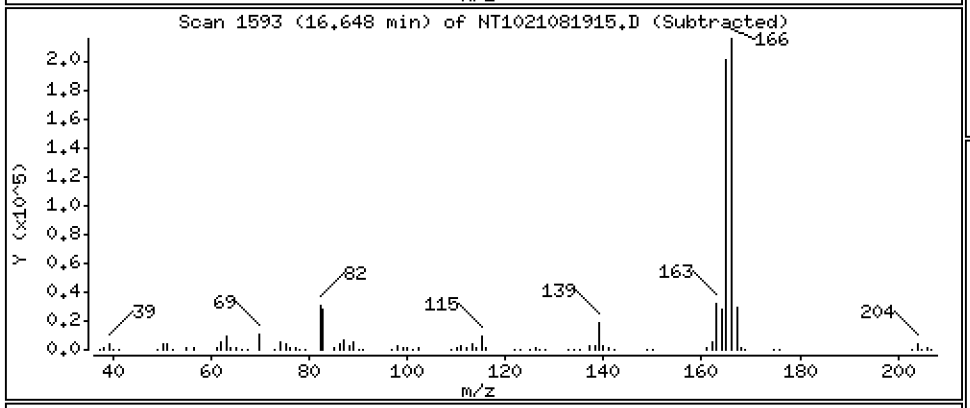
Column phase: ZB-5msi

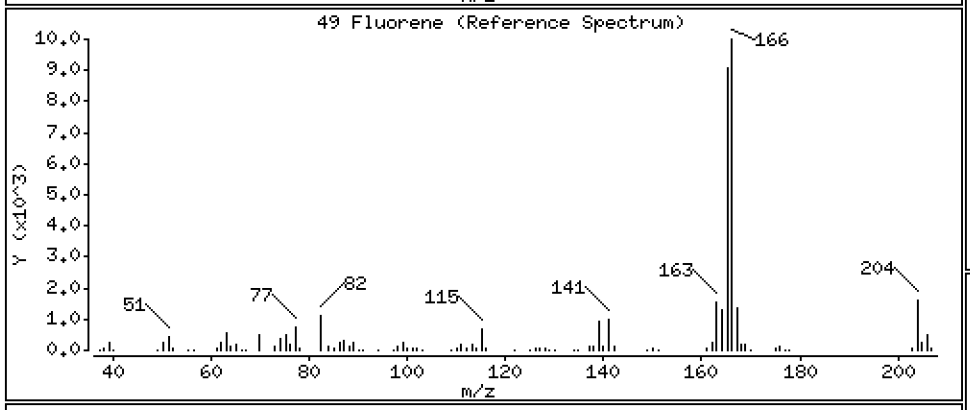
Column diameter: 0.25

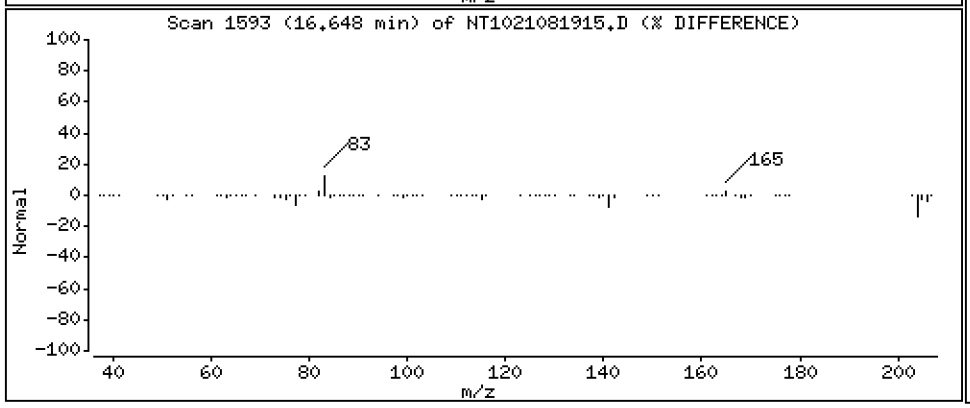
49 Fluorene

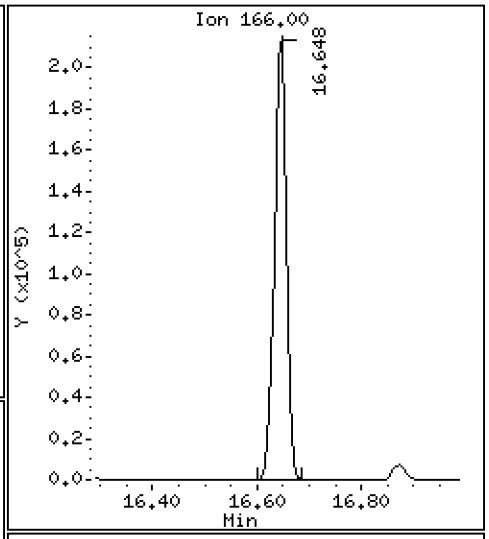
Concentration: 4.723 ug/mL

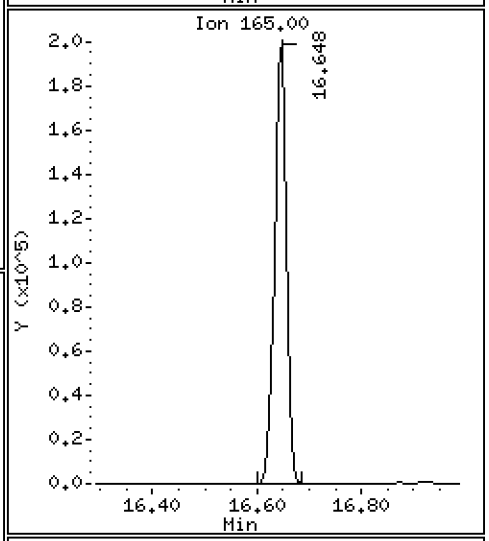


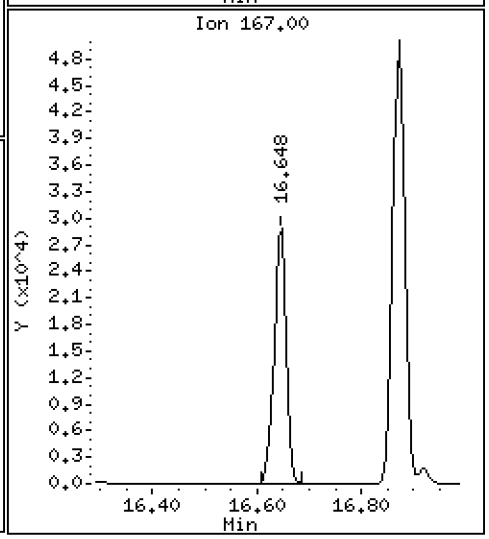












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

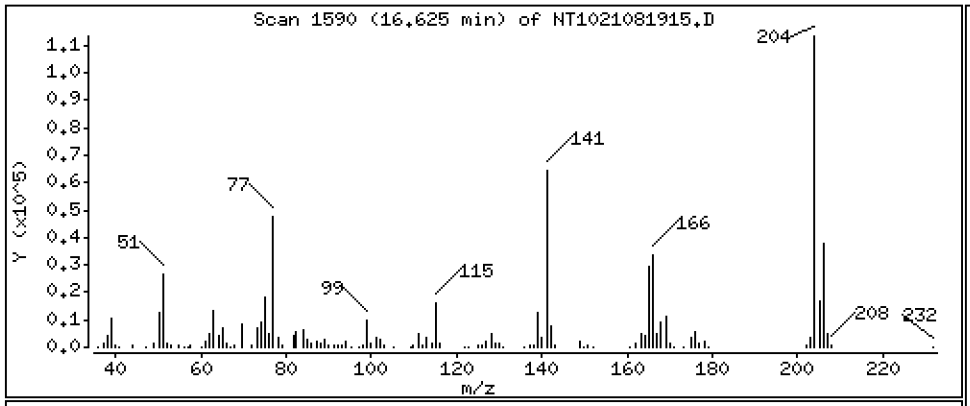
Operator: VTS

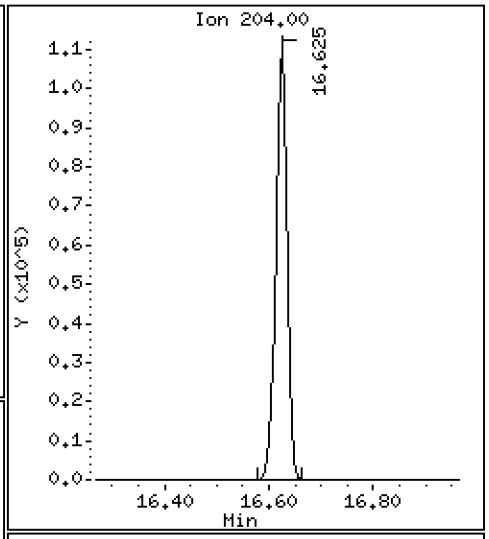
Column phase: ZB-5msi

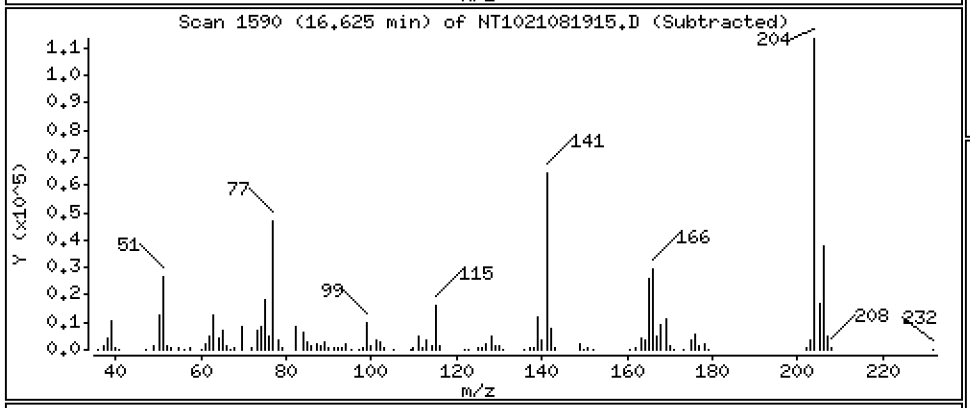
Column diameter: 0.25

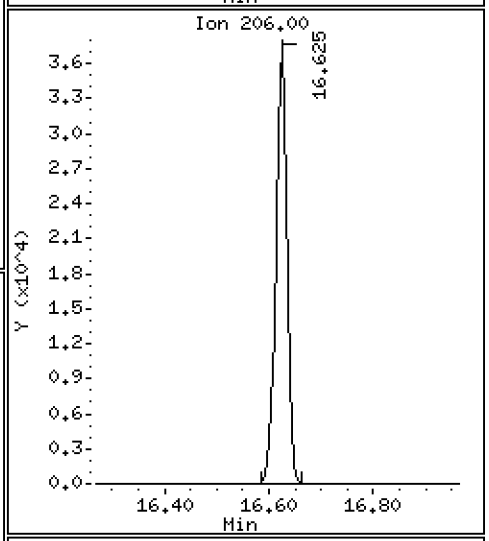
51 4-Chlorophenyl-phenylether

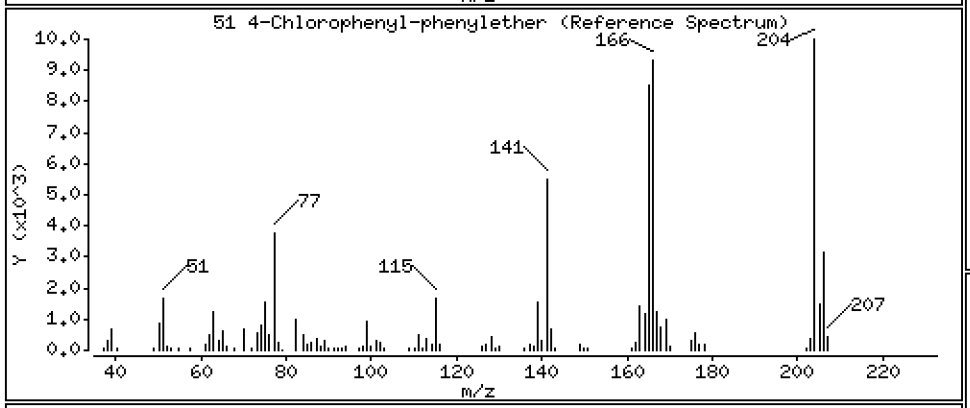
Concentration: 5.187 ug/mL

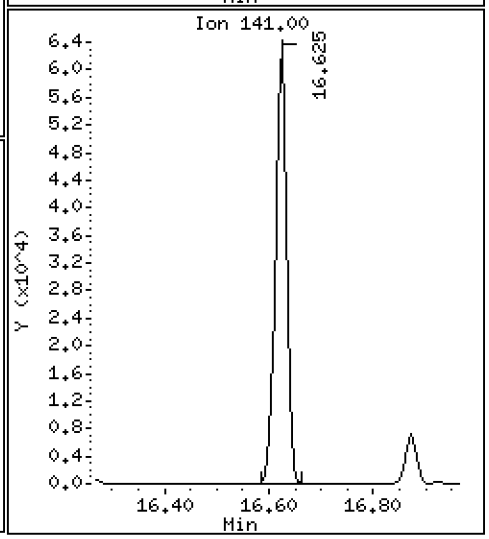


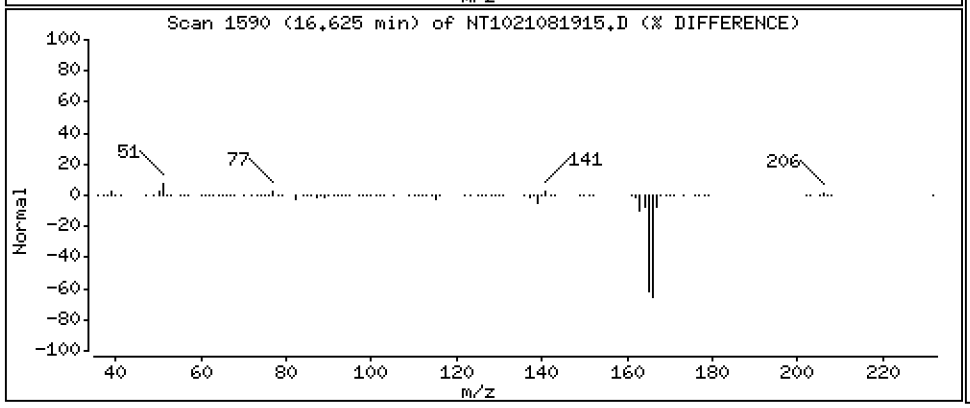












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

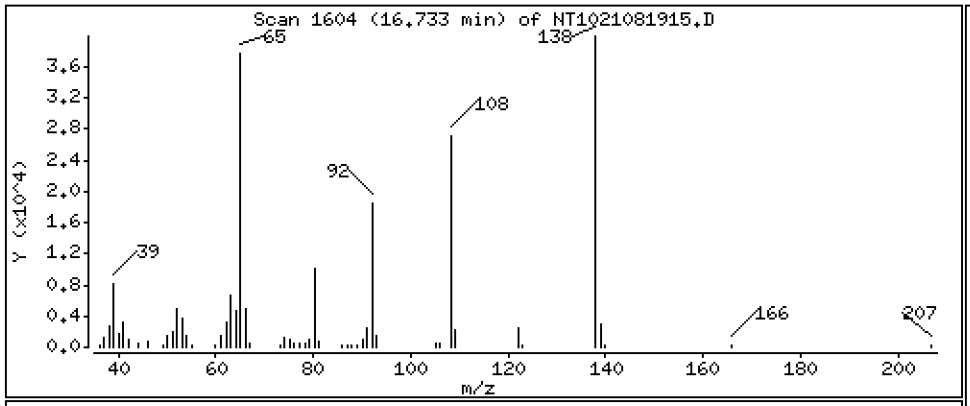
Operator: VTS

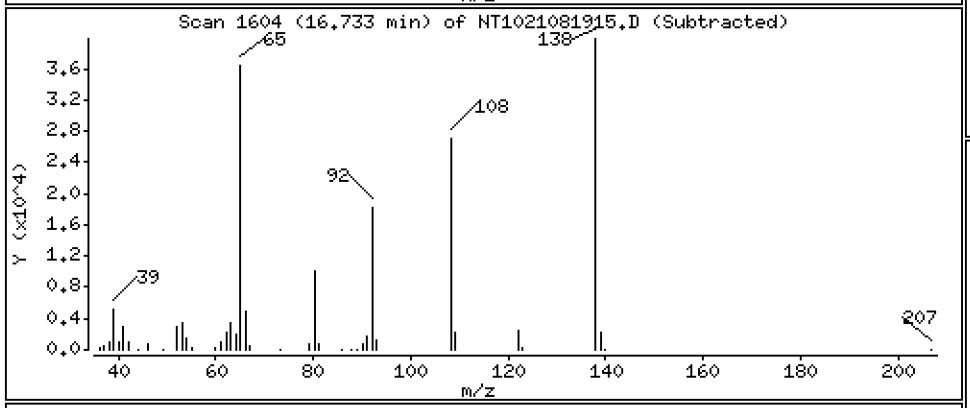
Column phase: ZB-5msi

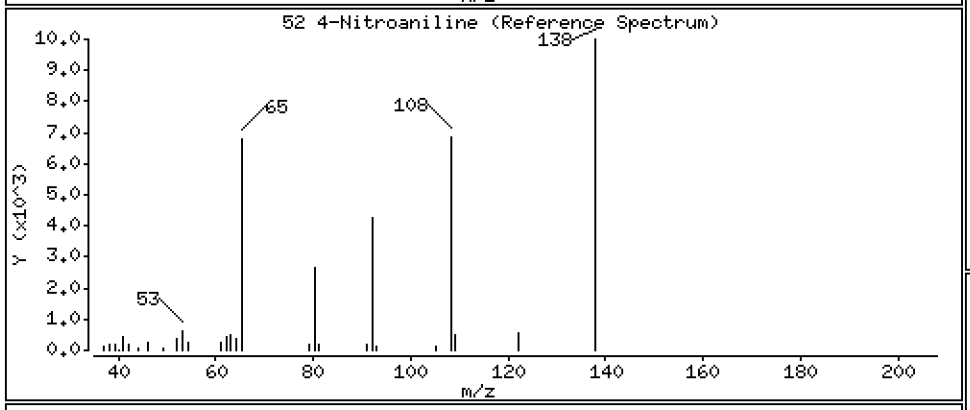
Column diameter: 0.25

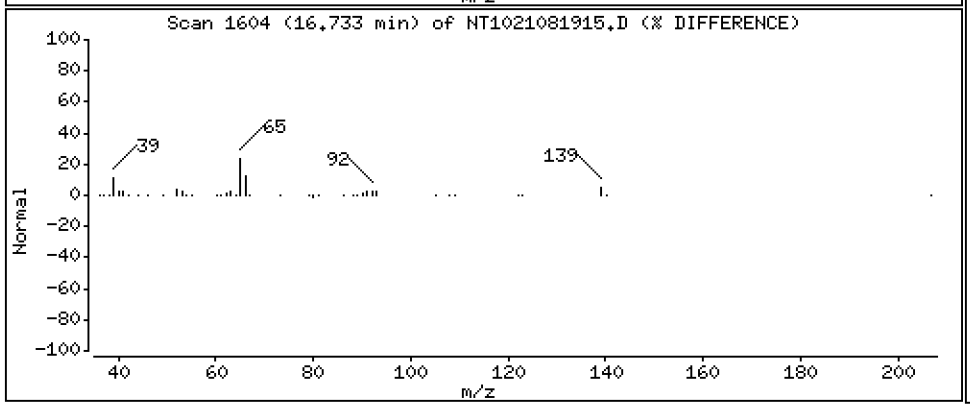
52 4-Nitroaniline

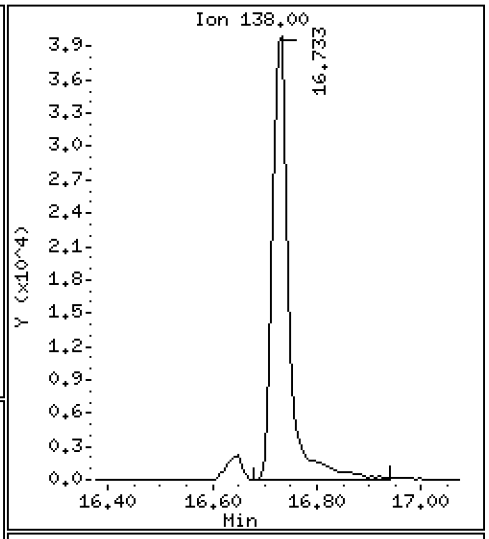
Concentration: 4.788 ug/mL

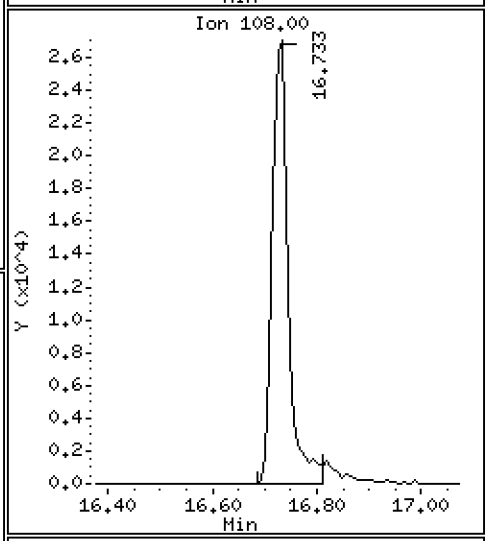


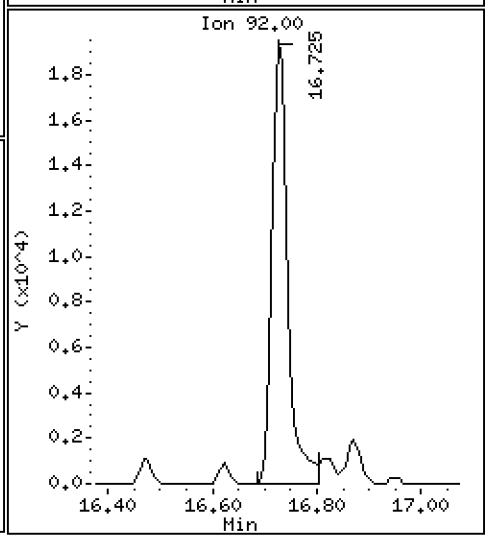












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

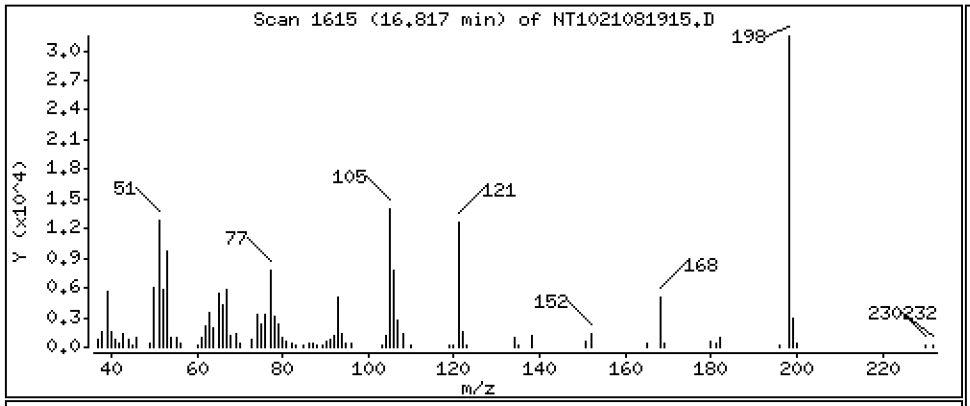
Operator: VTS

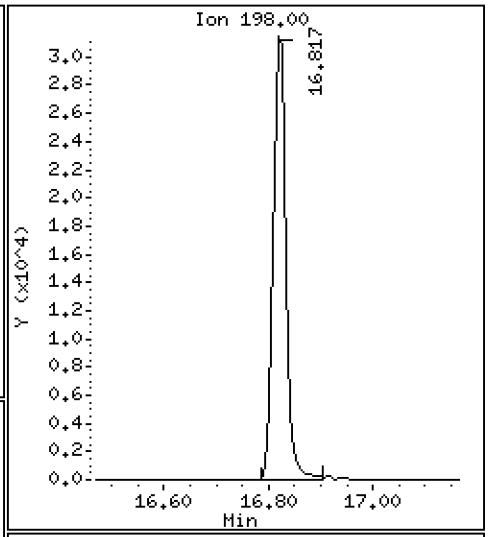
Column phase: ZB-5msi

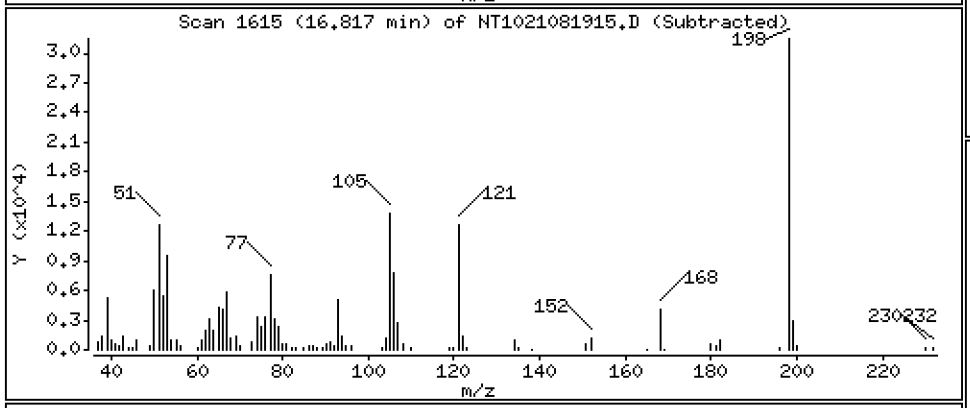
Column diameter: 0.25

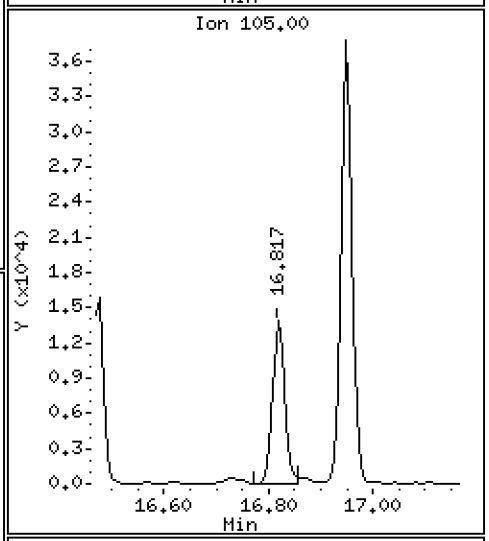
53 4,6-Dinitro-2-methylphenol

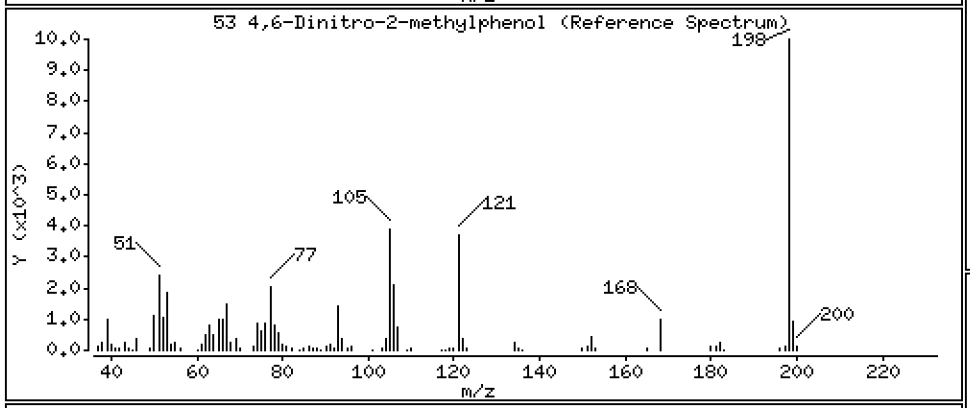
Concentration: 3.885 ug/mL

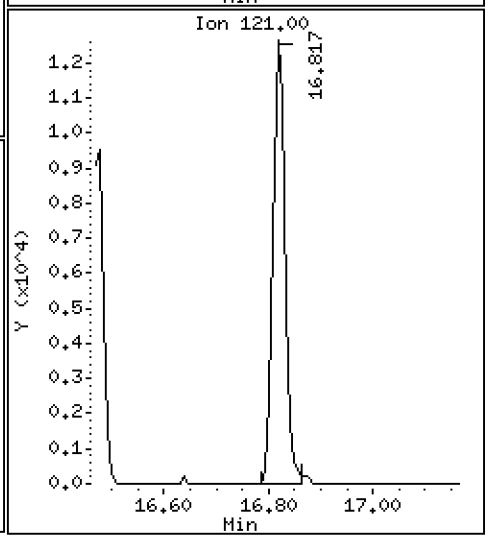


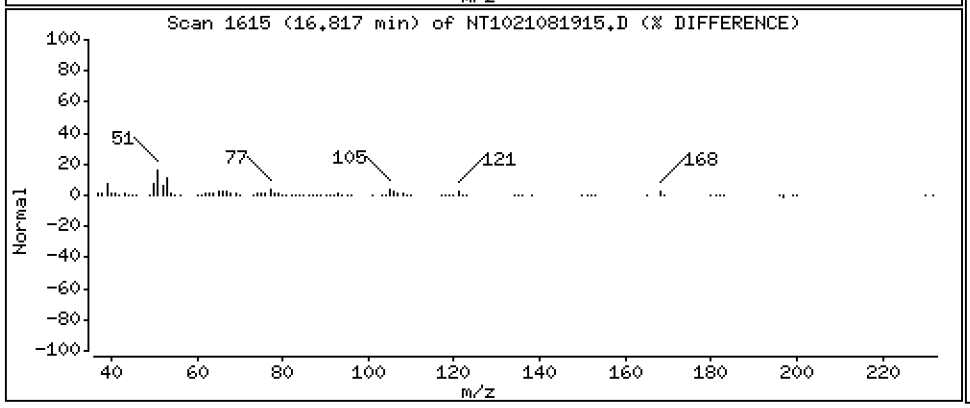












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

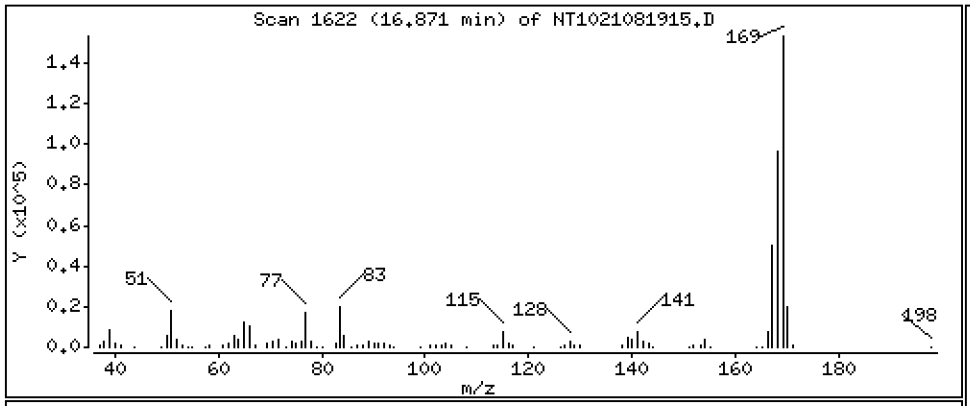
Operator: VTS

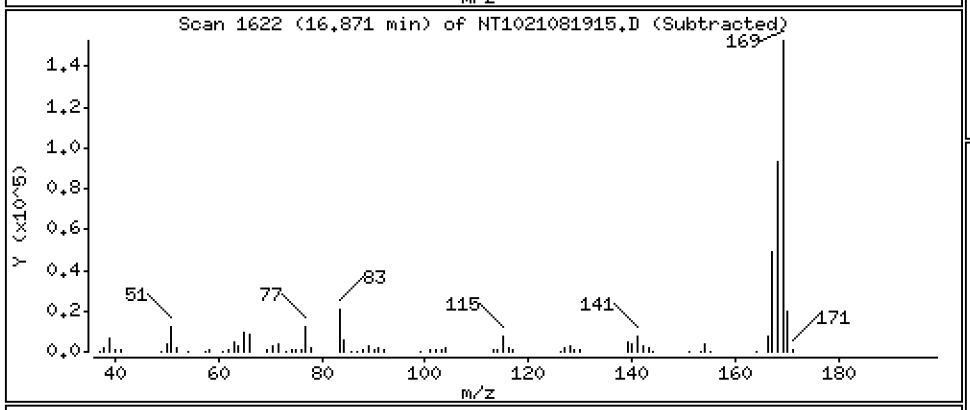
Column phase: ZB-5msi

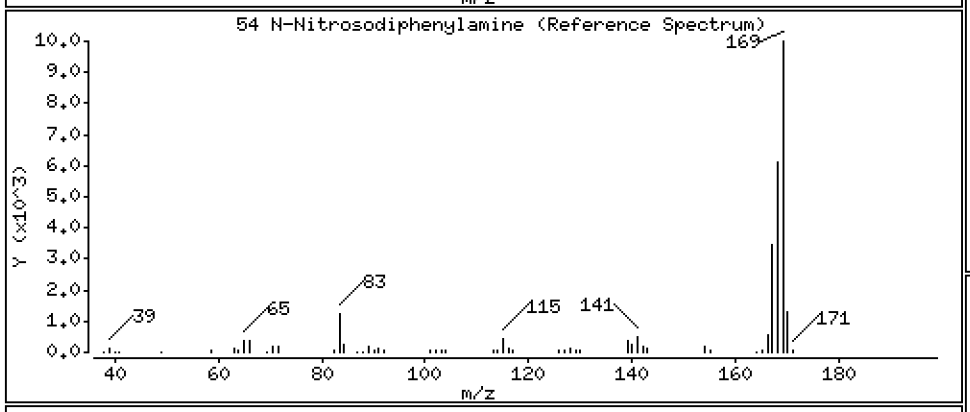
Column diameter: 0.25

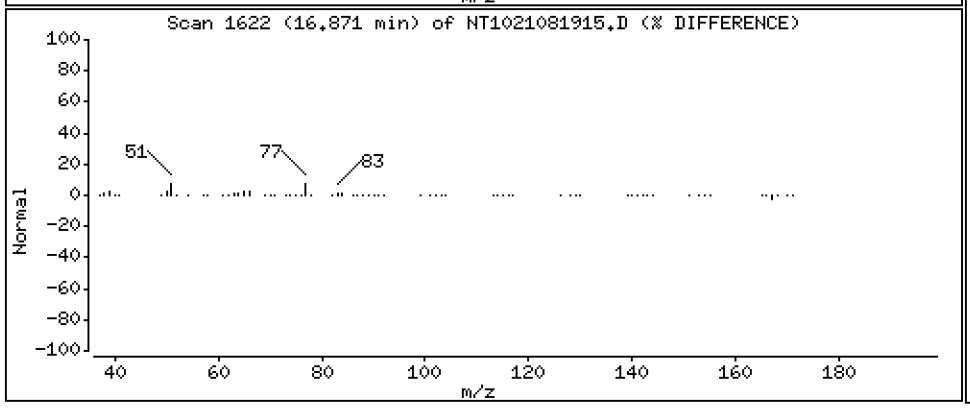
54 N-Nitrosodiphenylamine

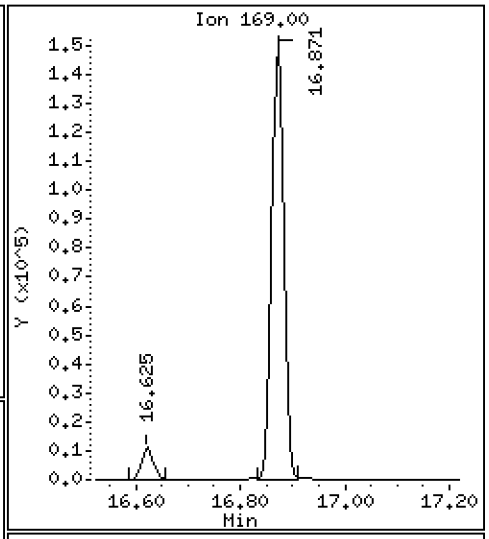
Concentration: 4.835 ug/mL

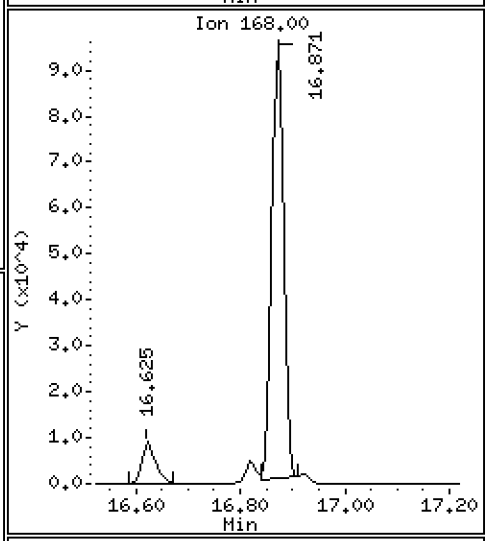


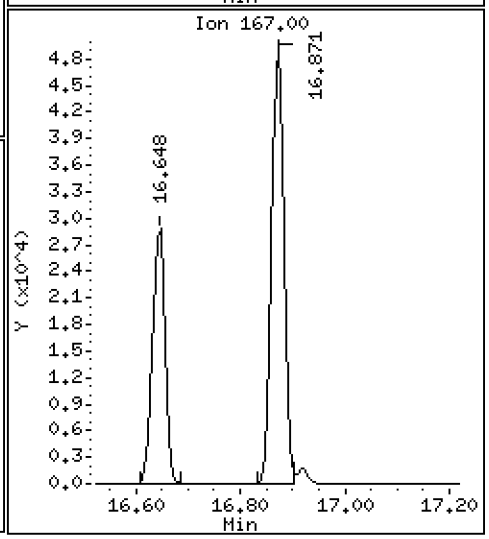












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

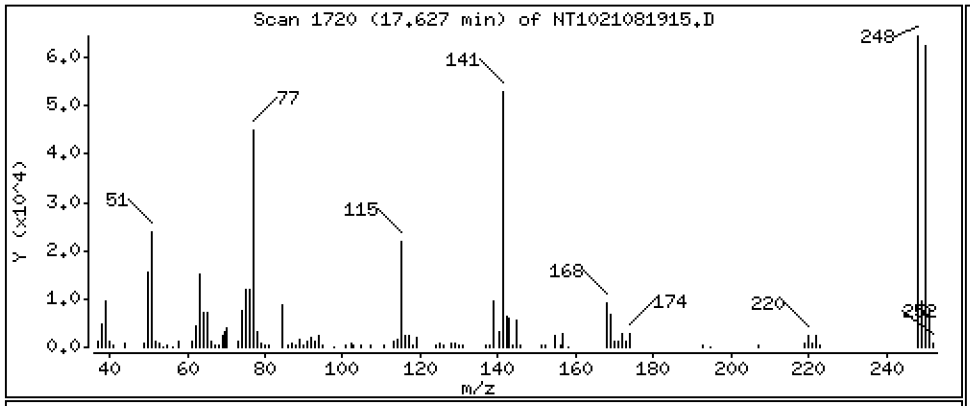
Operator: VTS

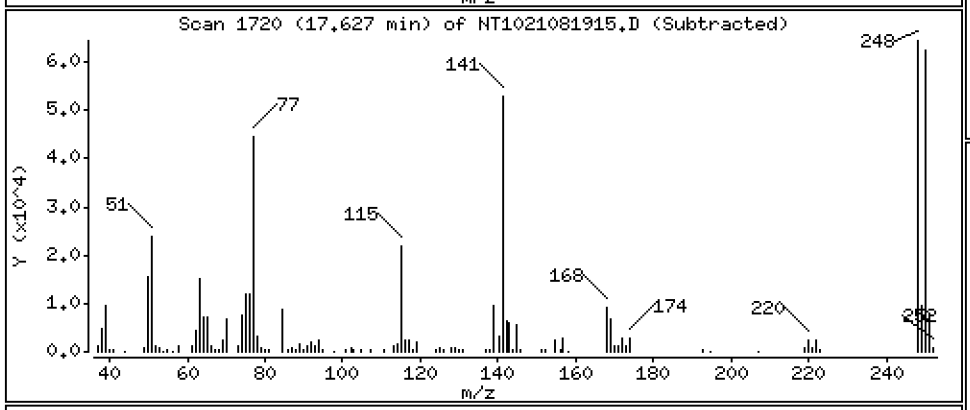
Column phase: ZB-5msi

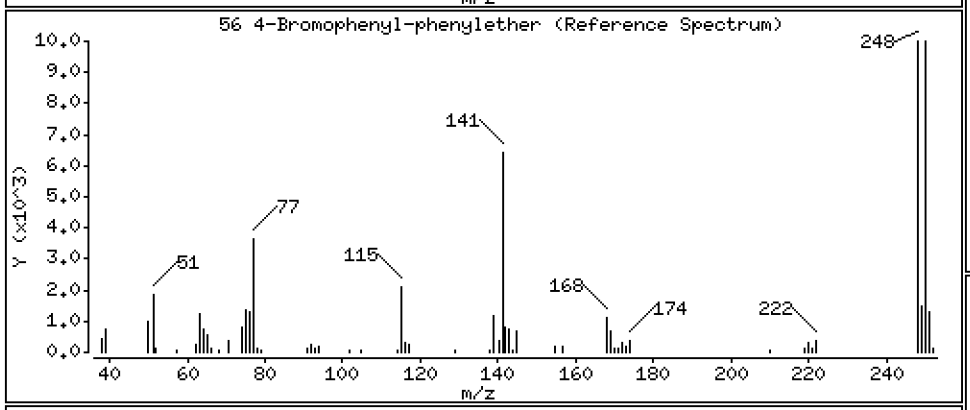
Column diameter: 0.25

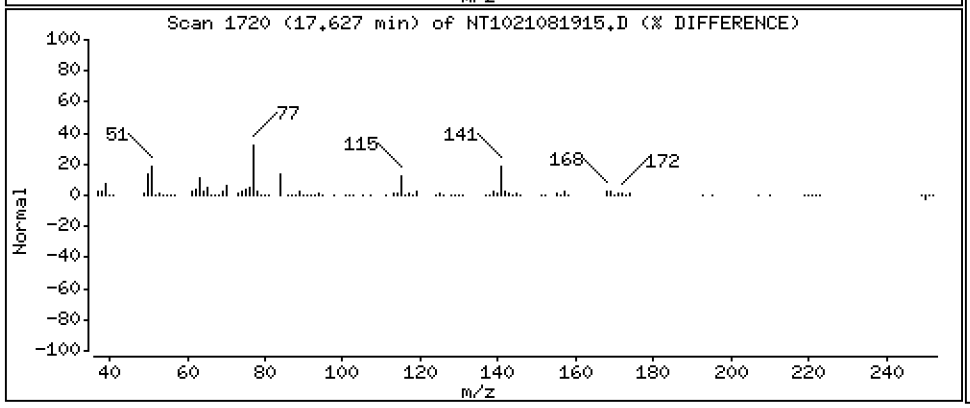
56 4-Bromophenyl-phenylether

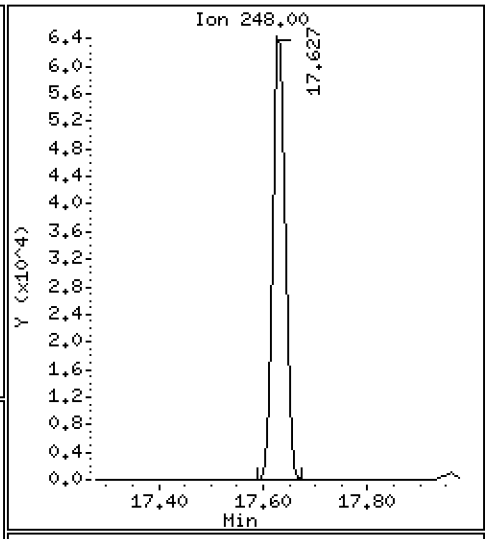
Concentration: 5.399 ug/mL

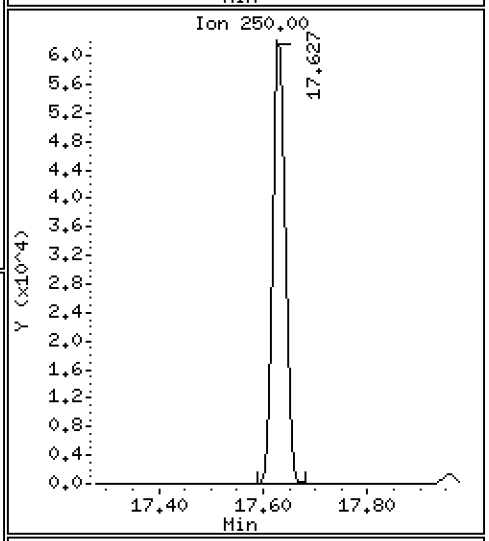


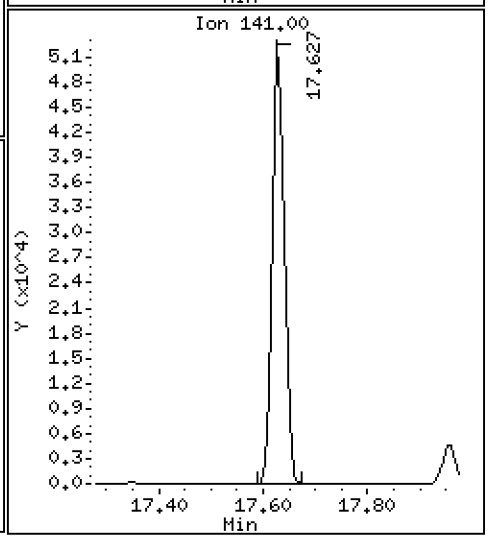












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

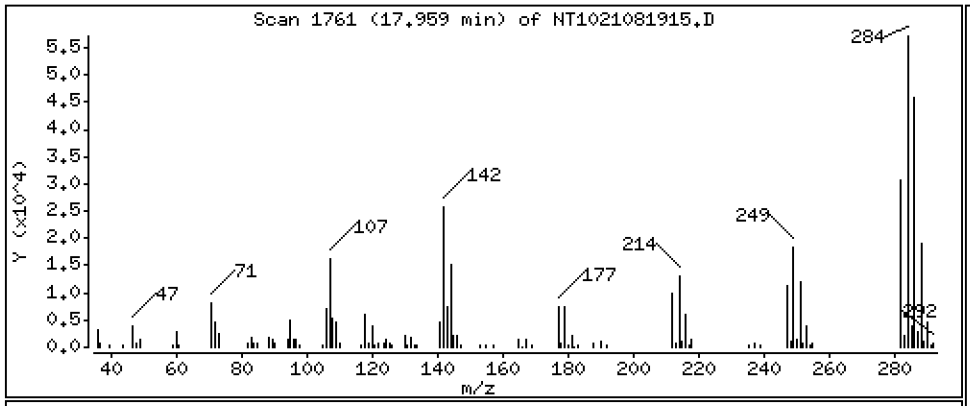
Operator: VTS

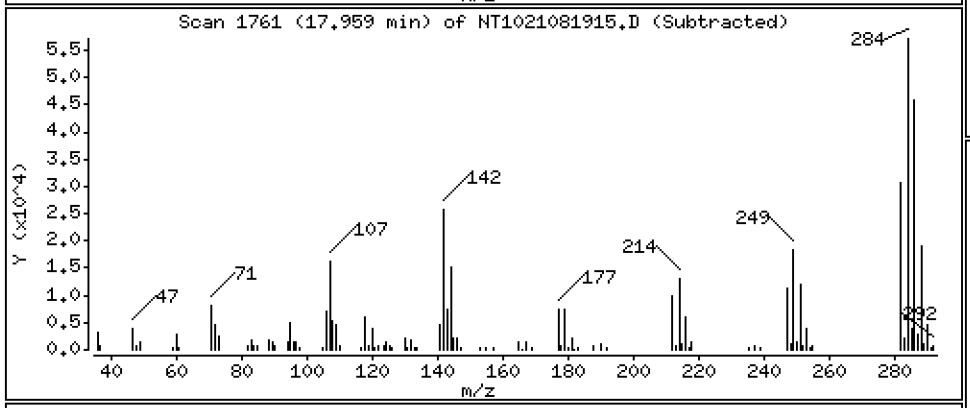
Column phase: ZB-5msi

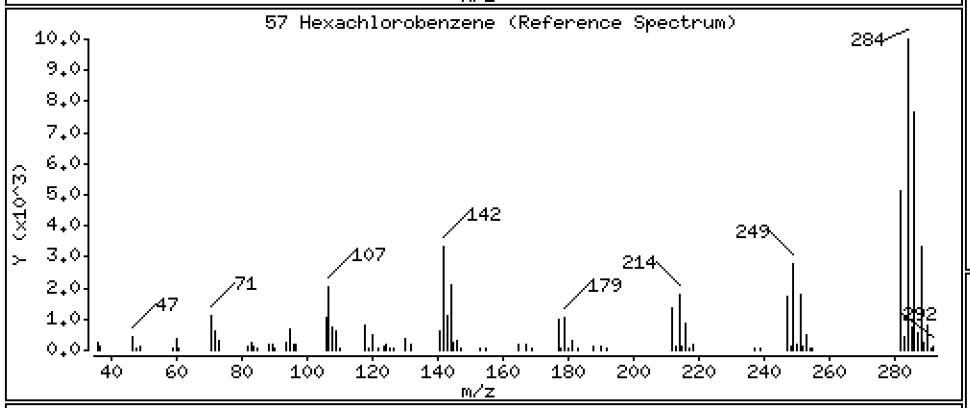
Column diameter: 0.25

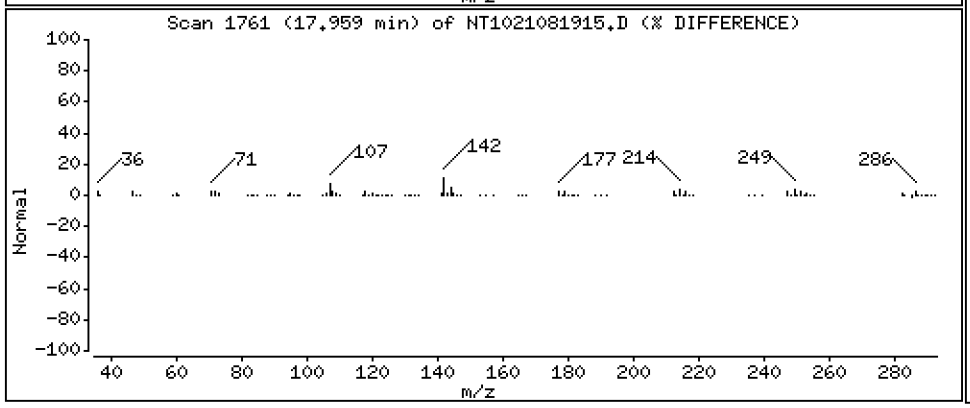
57 Hexachlorobenzene

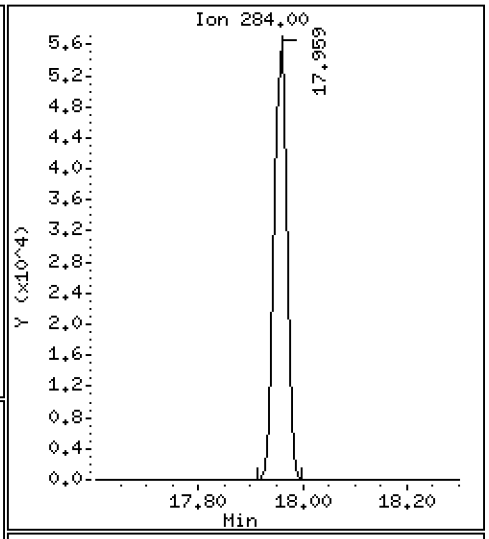
Concentration: 5.063 ug/mL

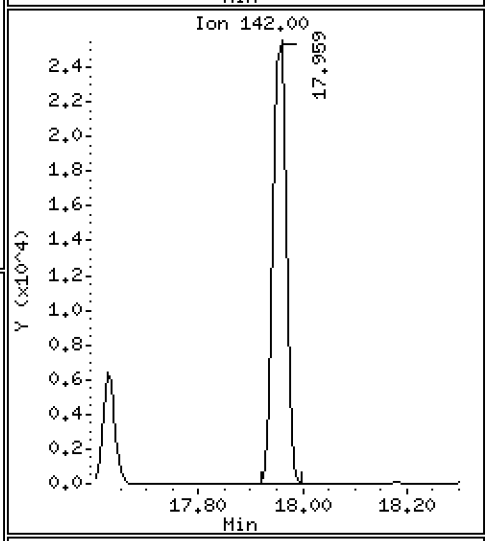


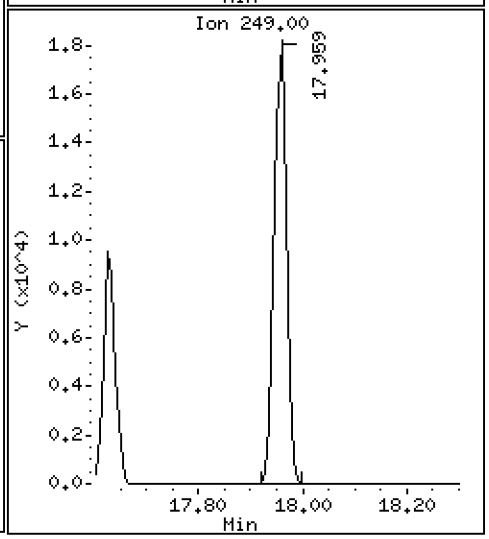












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

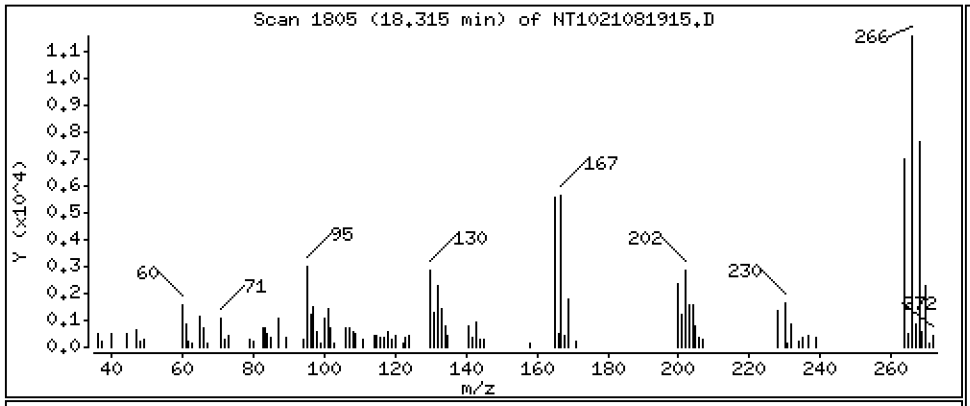
Operator: VTS

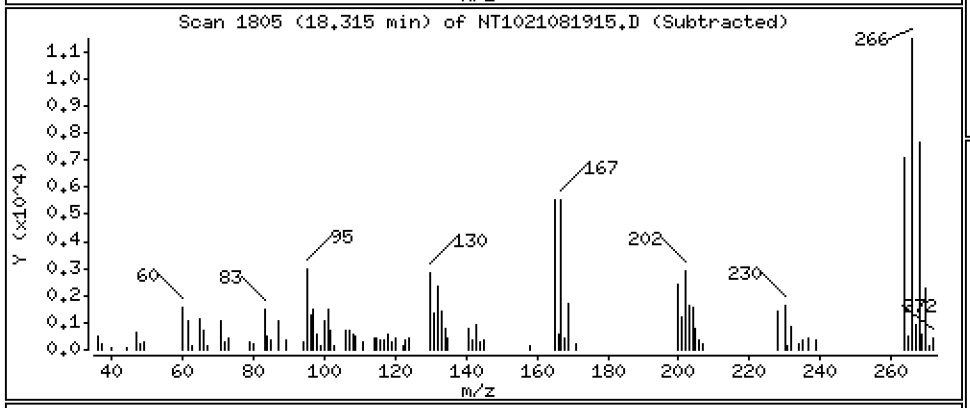
Column phase: ZB-5msi

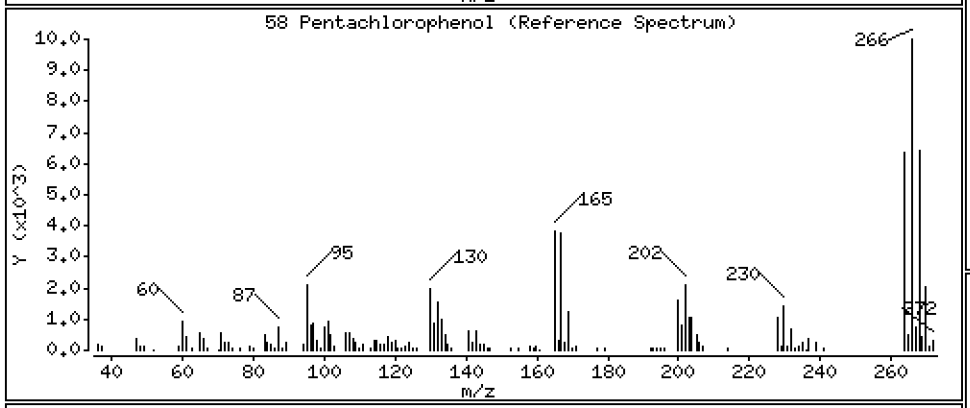
Column diameter: 0.25

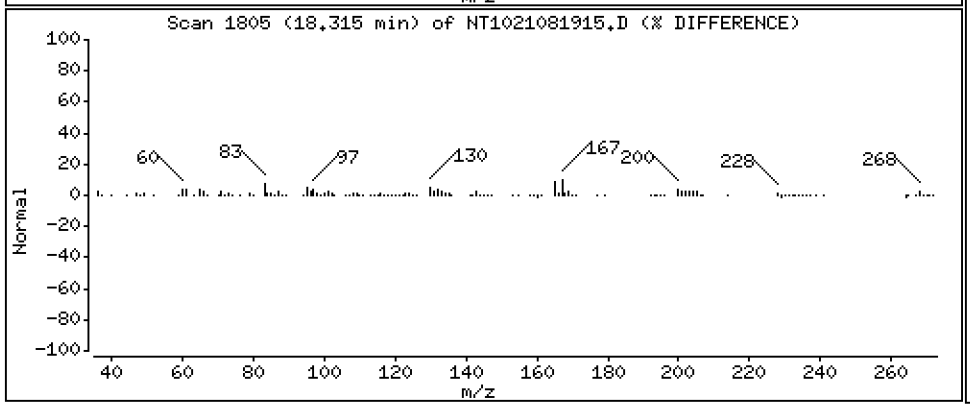
58 Pentachlorophenol

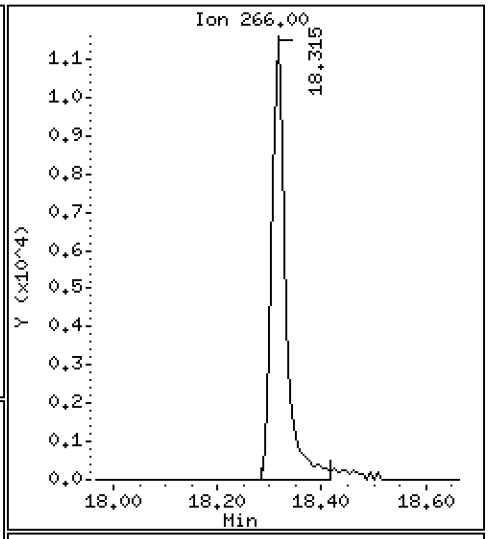
Concentration: 3.120 ug/mL

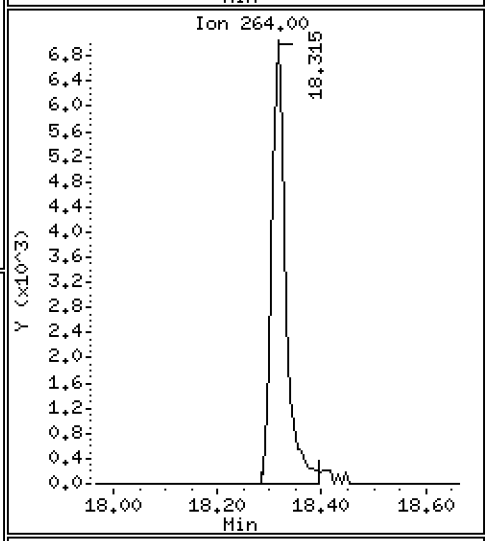


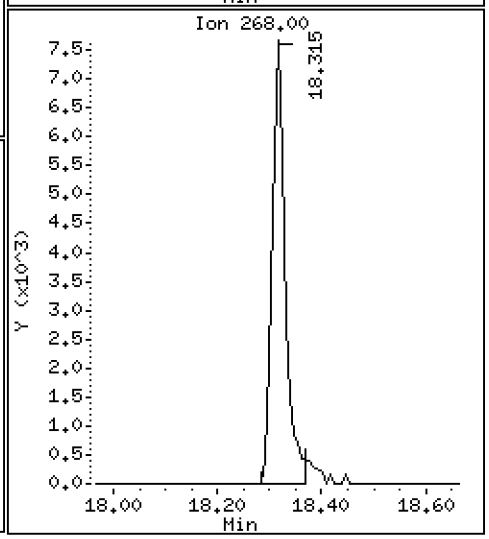












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

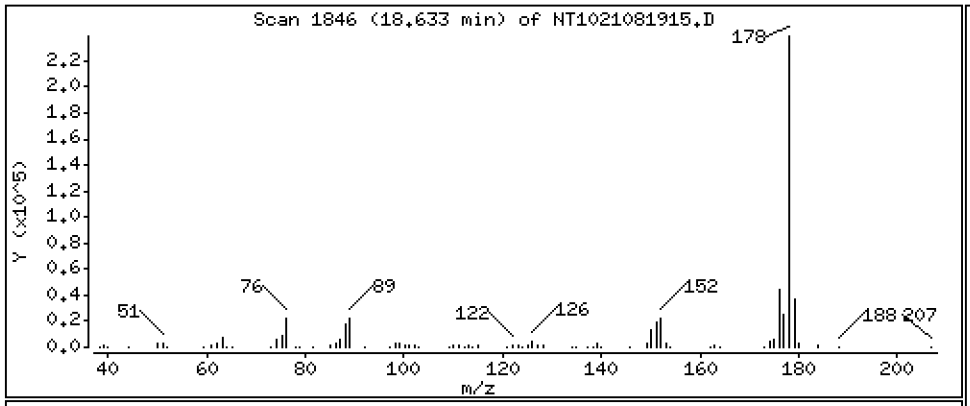
Operator: VTS

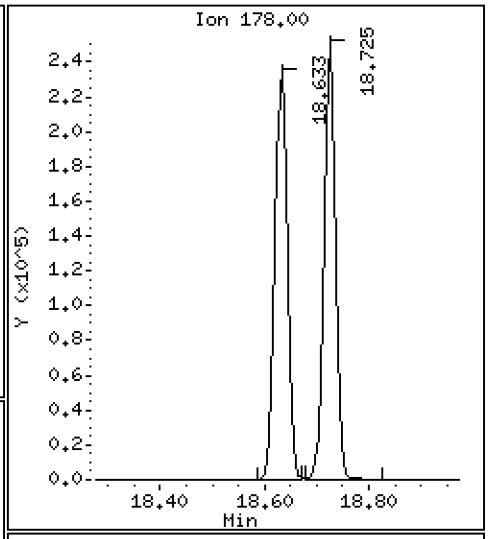
Column phase: ZB-5msi

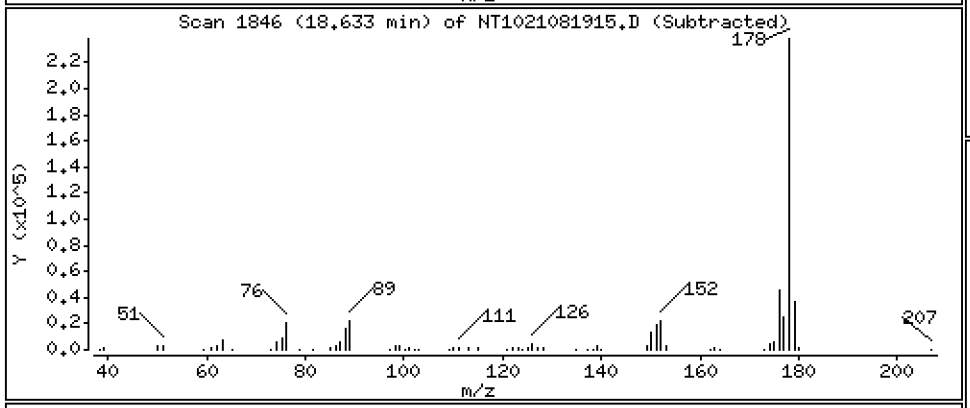
Column diameter: 0.25

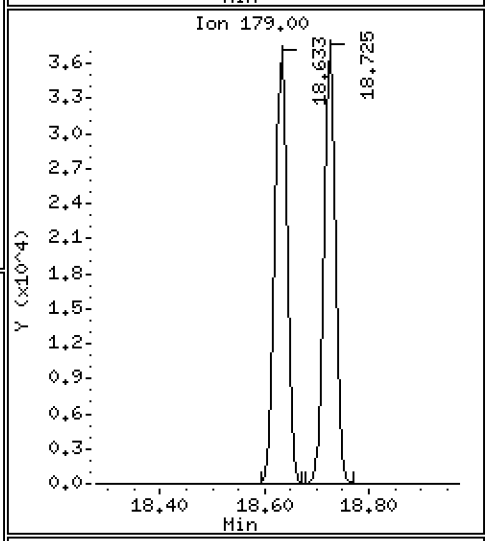
60 Phenanthrene

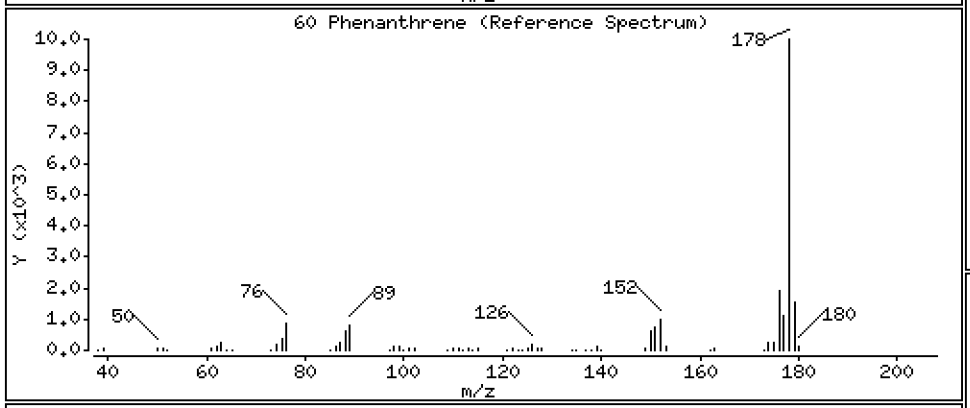
Concentration: 4.855 ug/mL

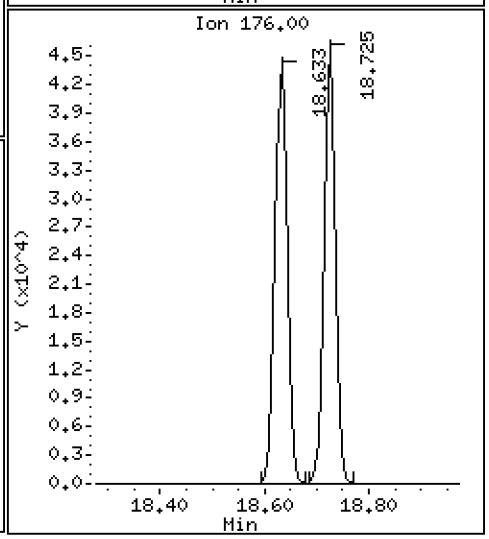


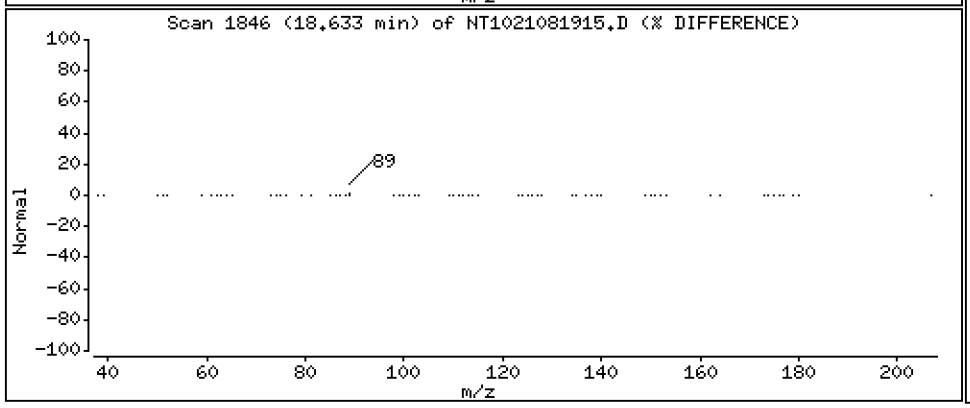












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

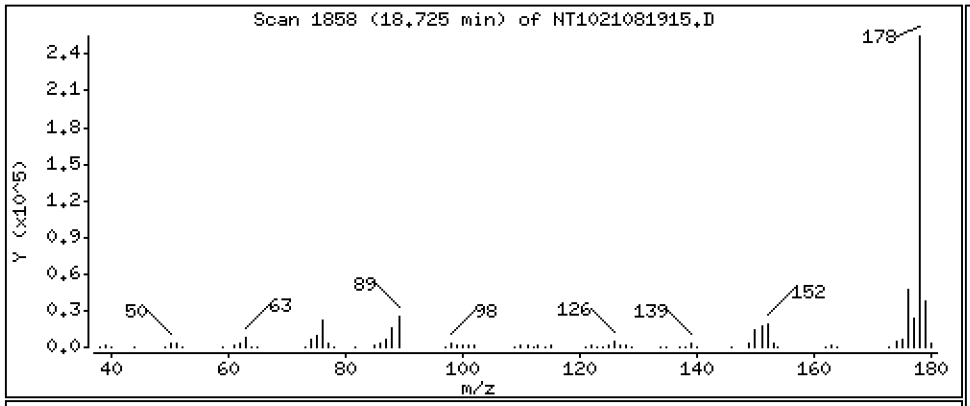
Operator: VTS

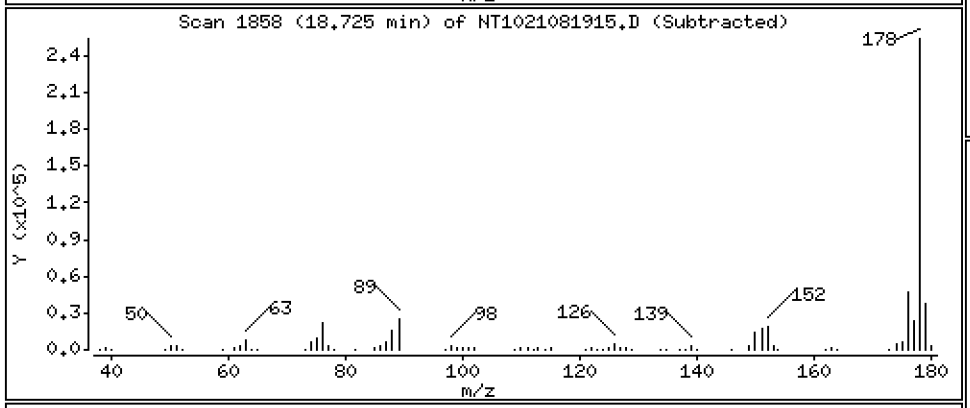
Column phase: ZB-5msi

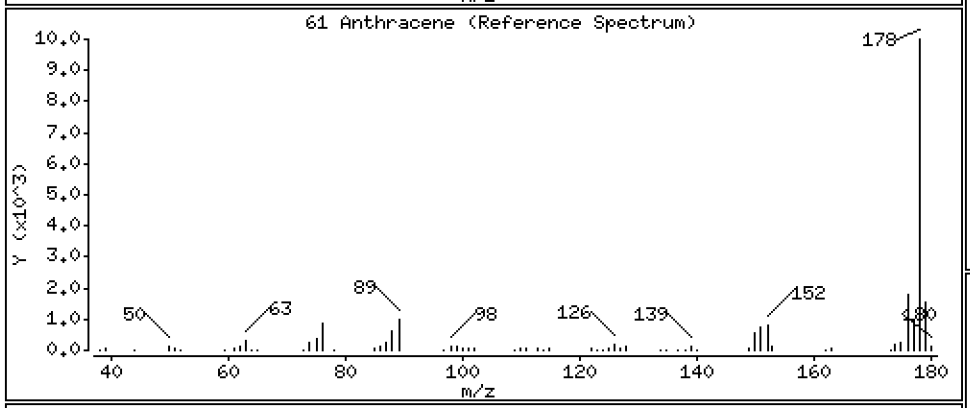
Column diameter: 0.25

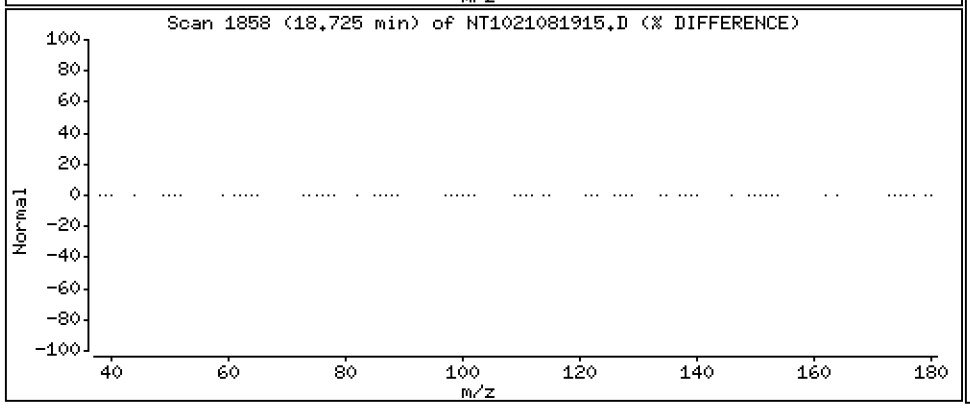
61 Anthracene

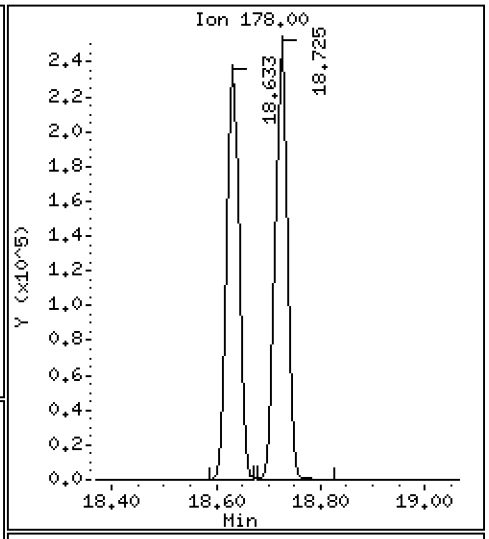
Concentration: 4.813 ug/mL

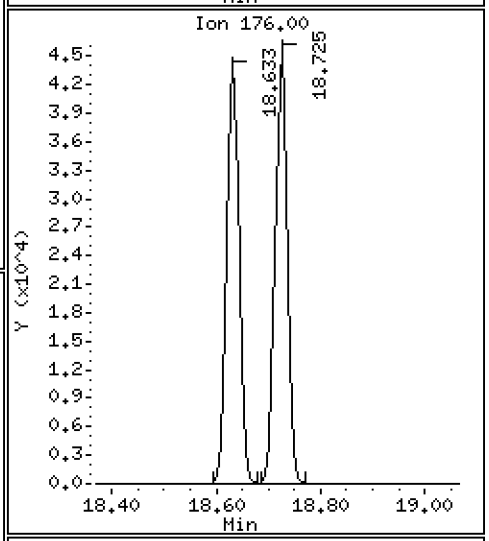


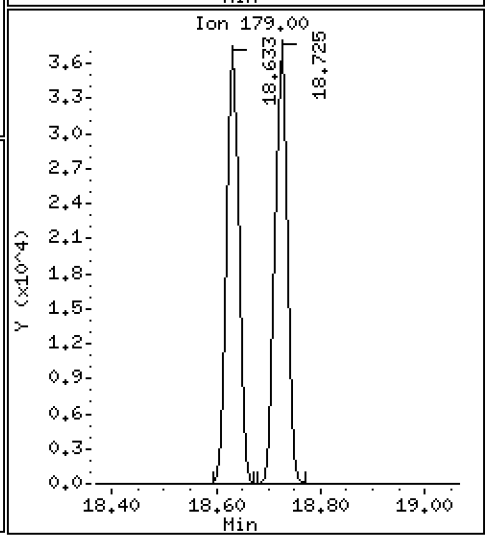












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

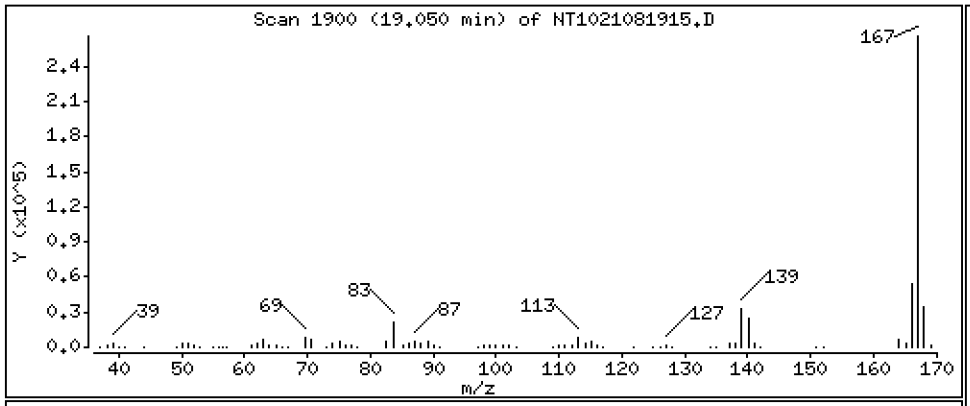
Operator: VTS

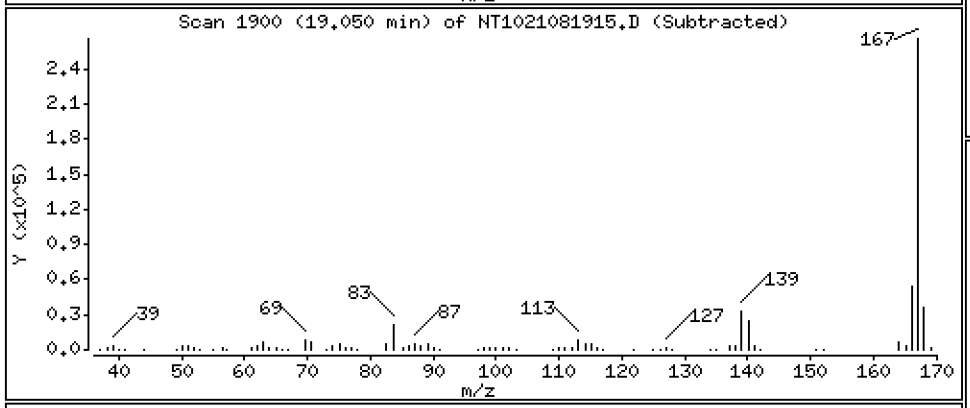
Column phase: ZB-5msi

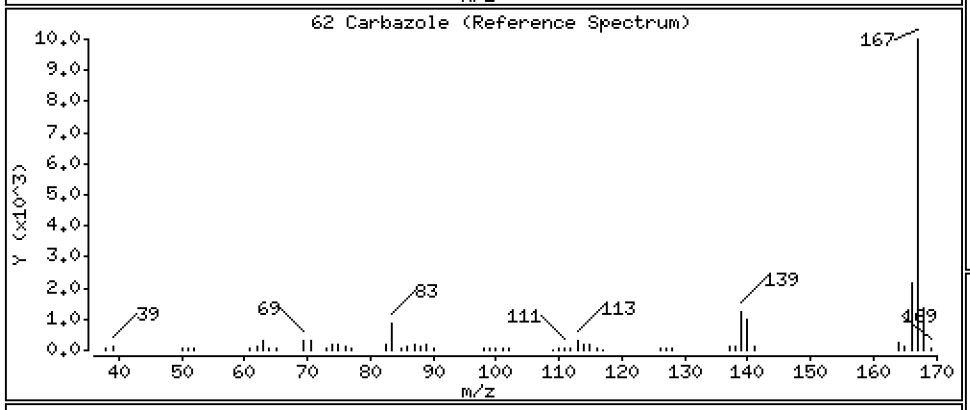
Column diameter: 0.25

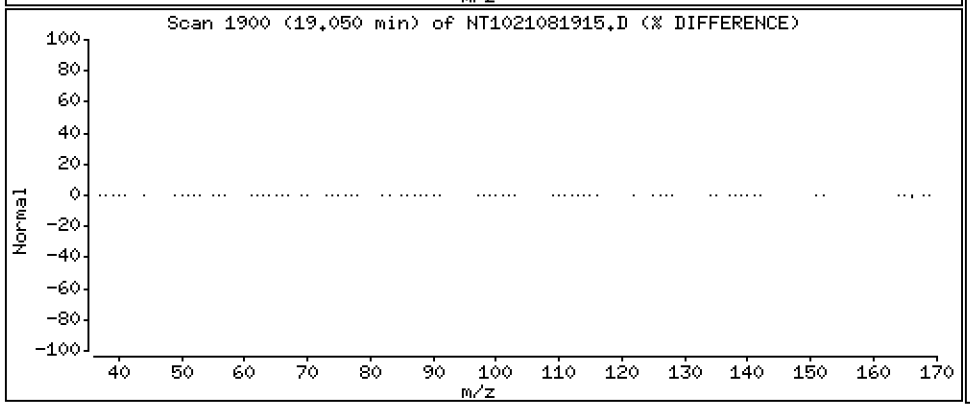
62 Carbazole

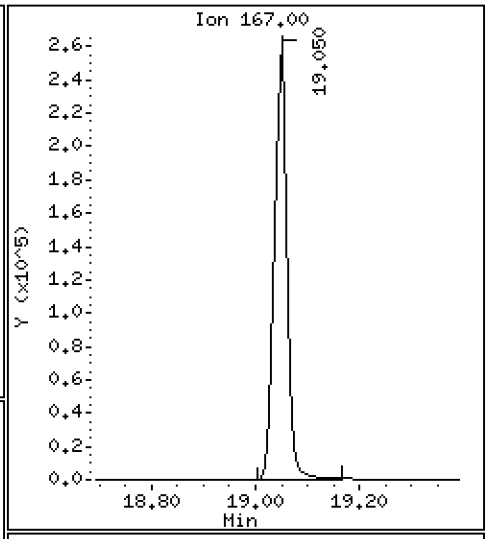
Concentration: 4.972 ug/mL

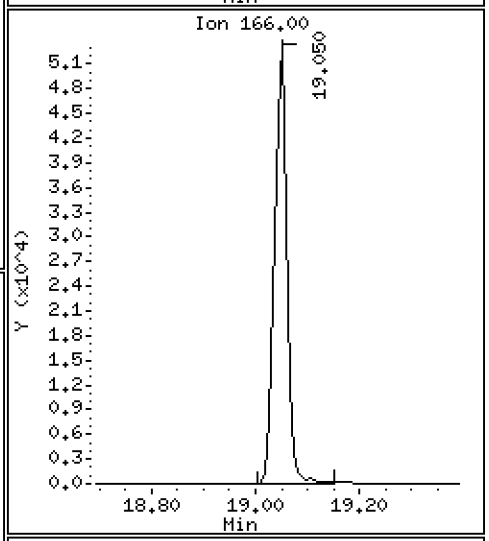


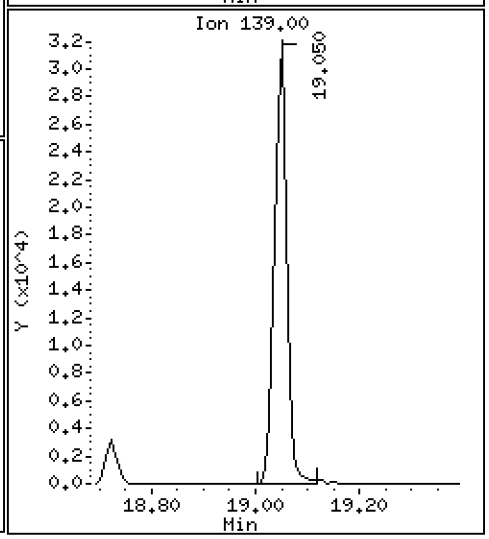












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

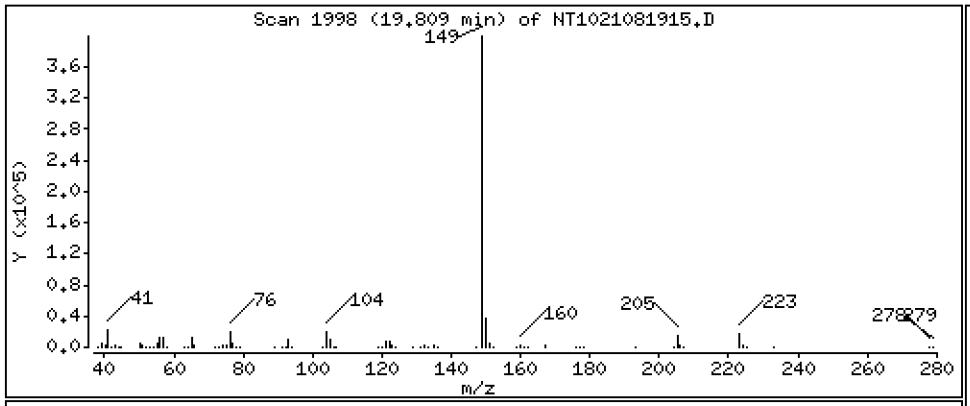
Operator: VTS

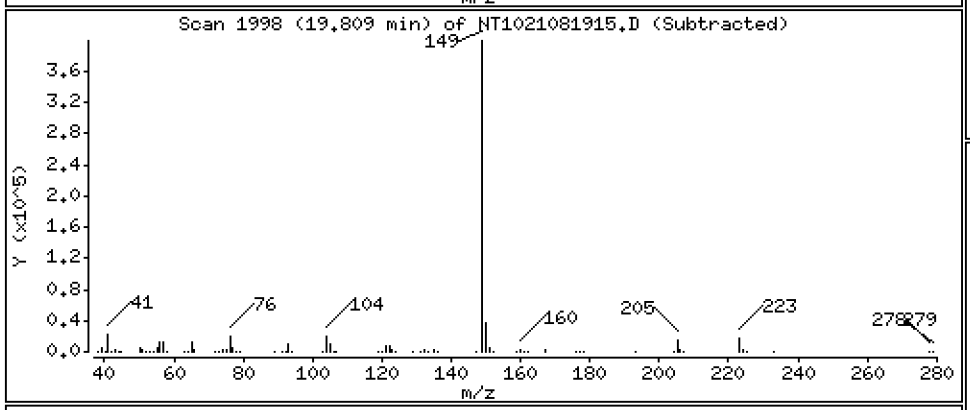
Column phase: ZB-5msi

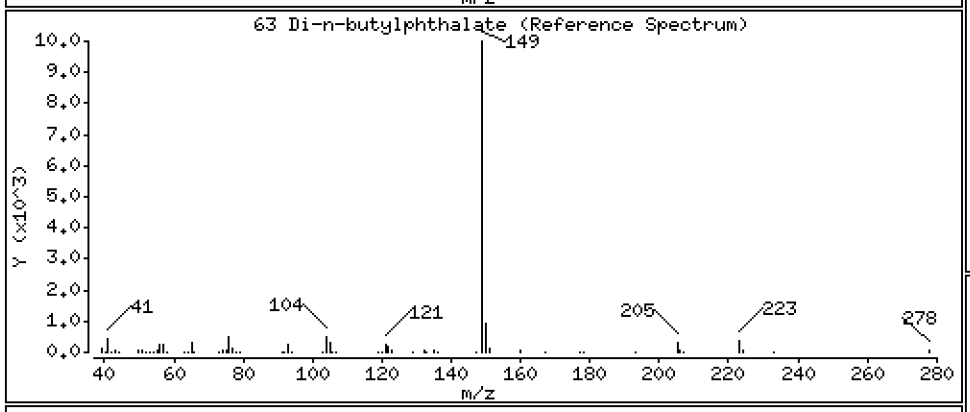
Column diameter: 0.25

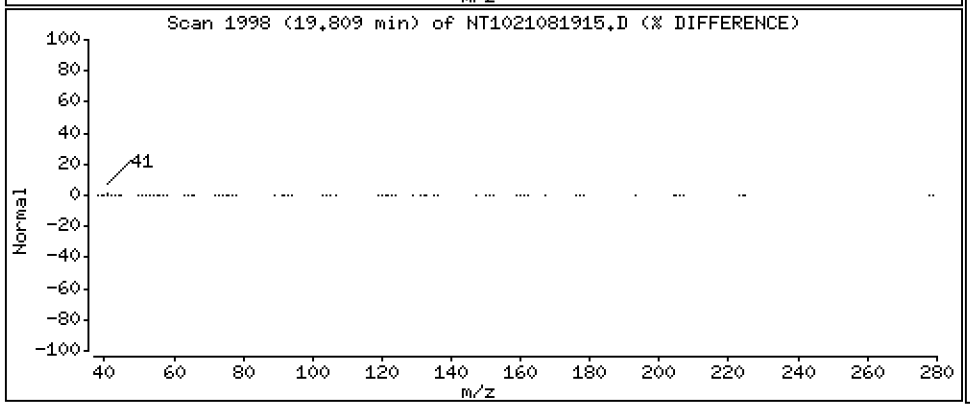
63 Di-n-butylphthalate

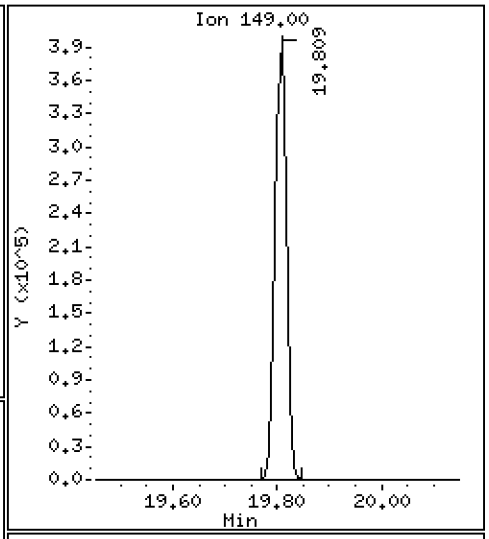
Concentration: 5.375 ug/mL

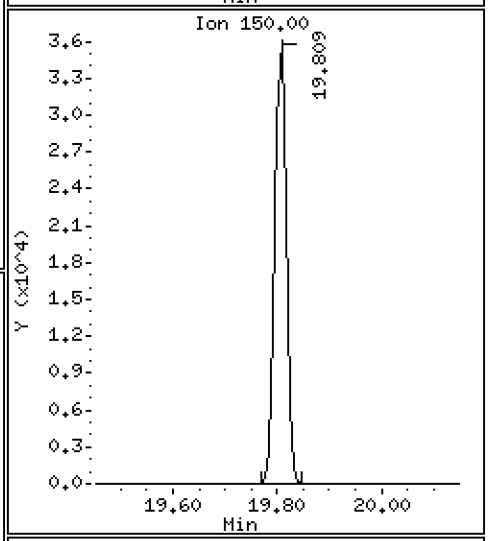


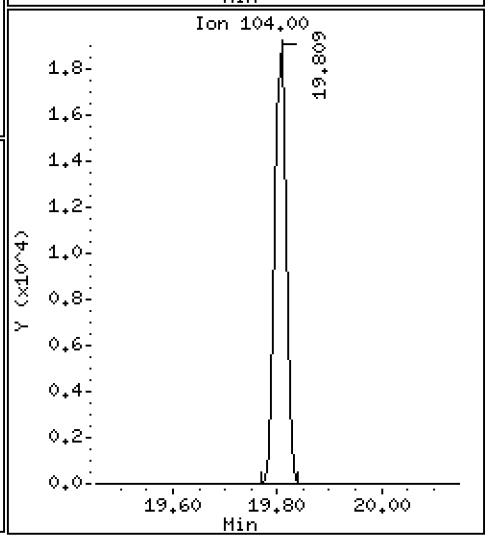












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

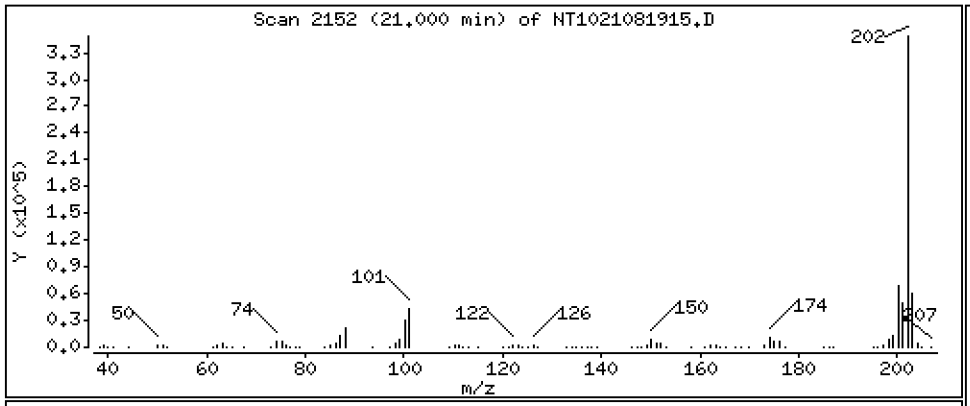
Operator: VTS

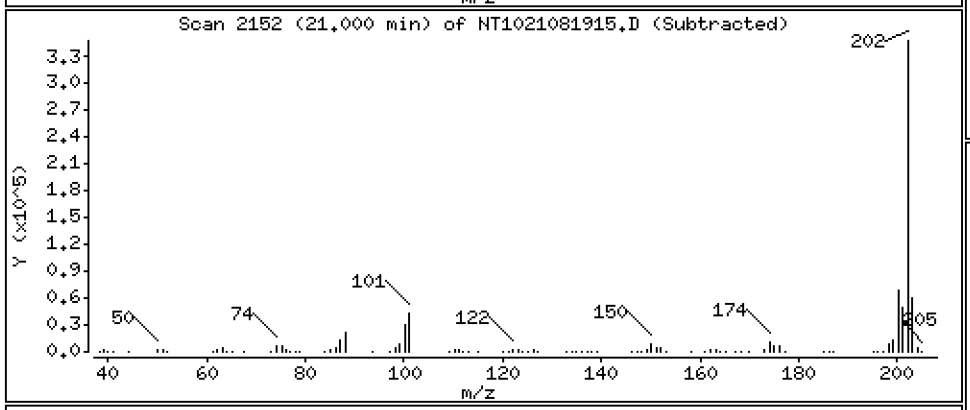
Column phase: ZB-5msi

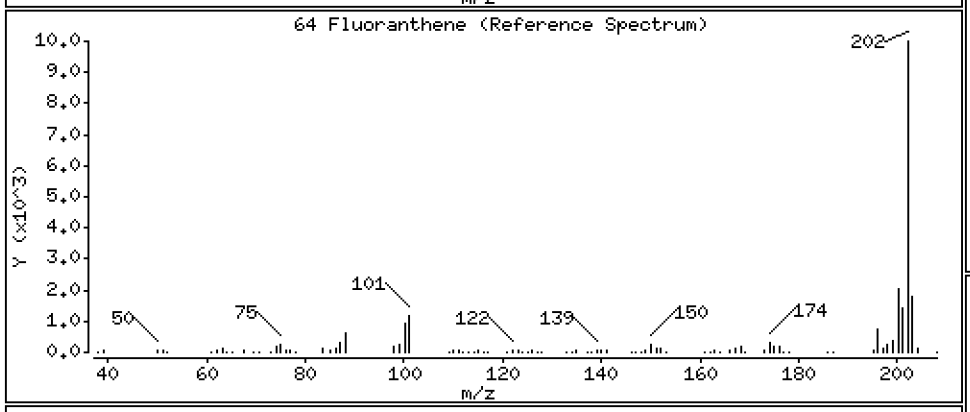
Column diameter: 0.25

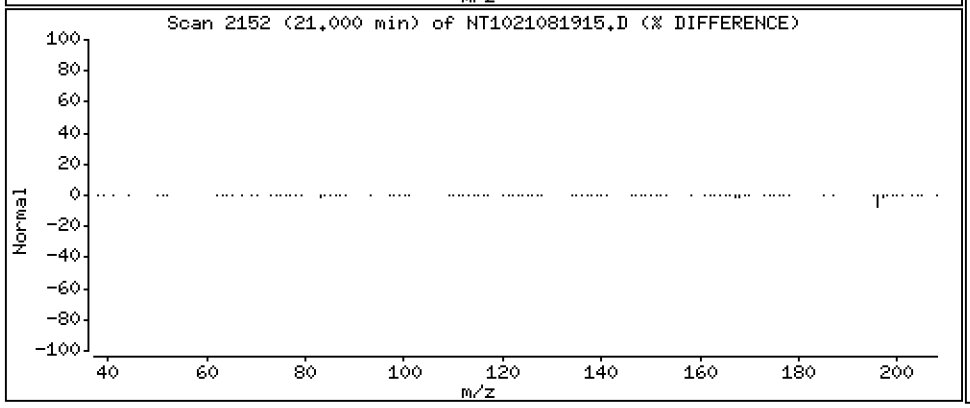
64 Fluoranthene

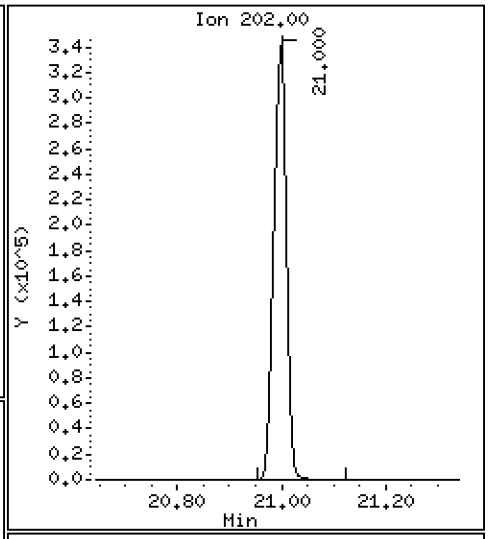
Concentration: 4.853 ug/mL

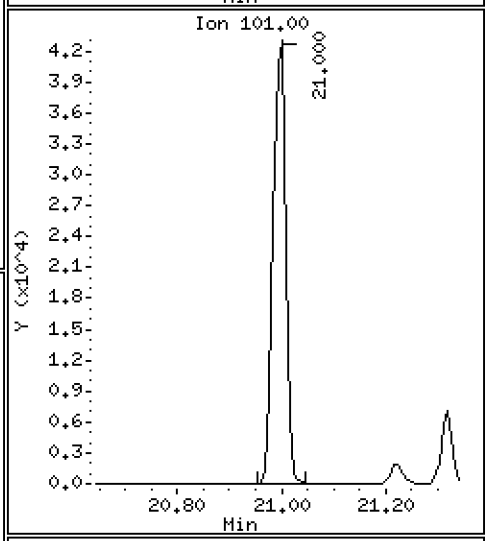


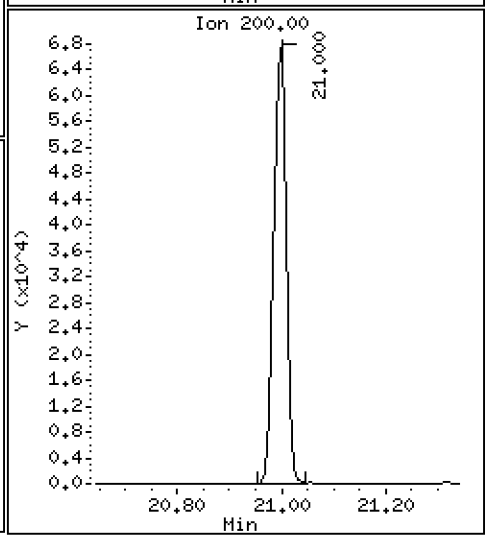












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

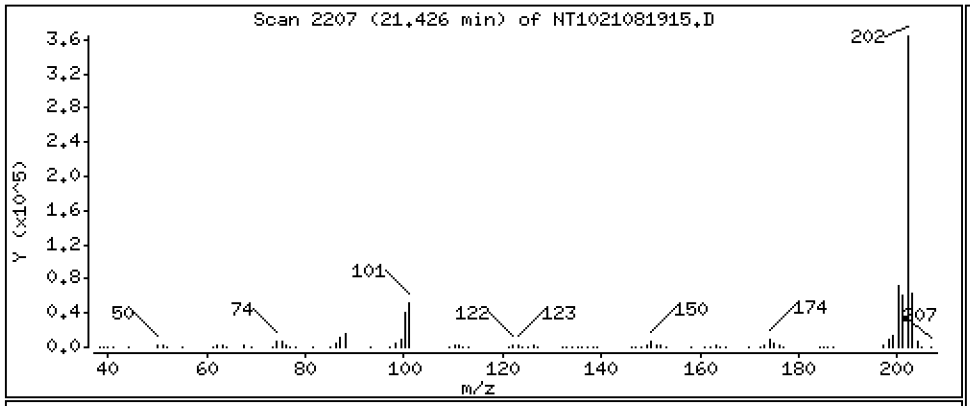
Operator: VTS

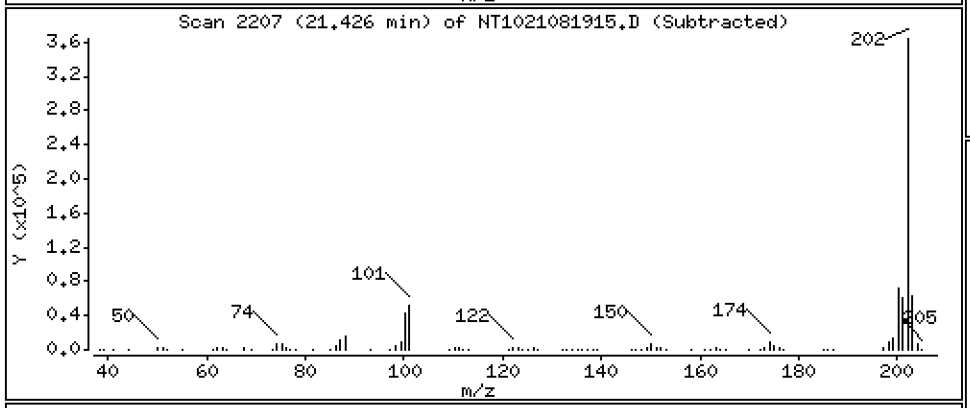
Column phase: ZB-5msi

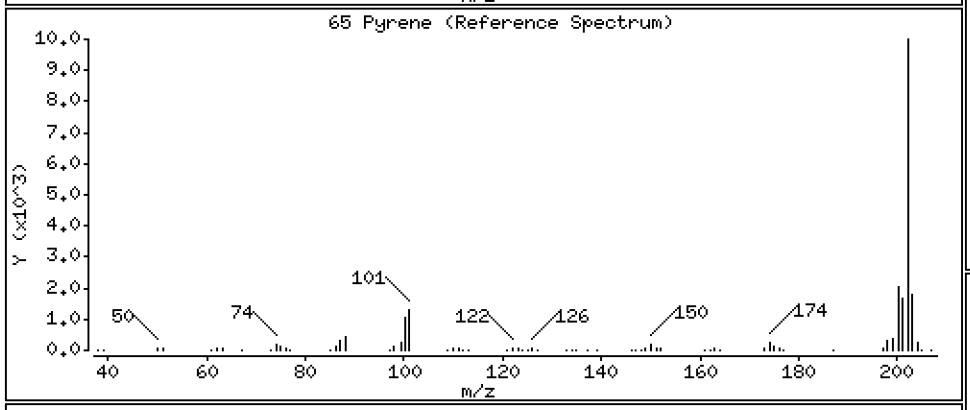
Column diameter: 0.25

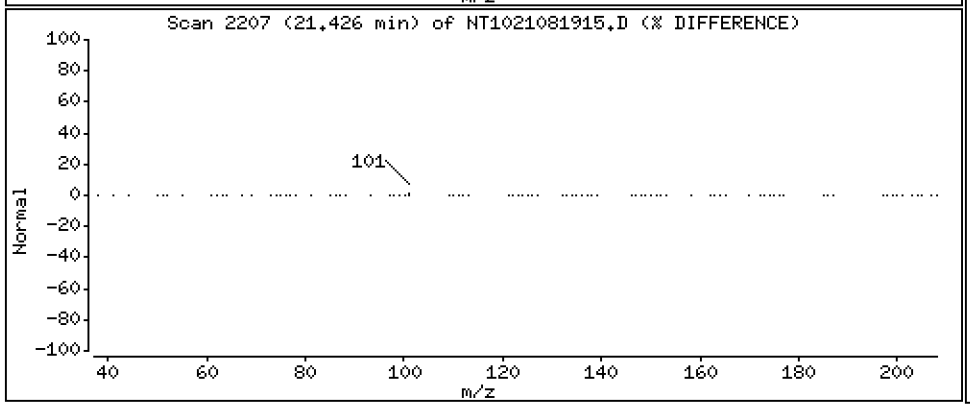
65 Pyrene

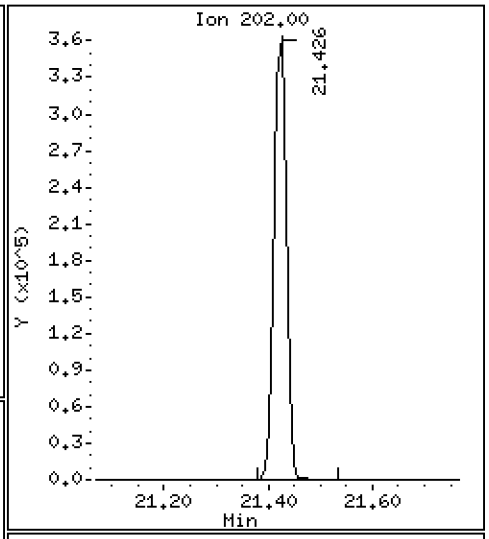
Concentration: 4.862 ug/mL

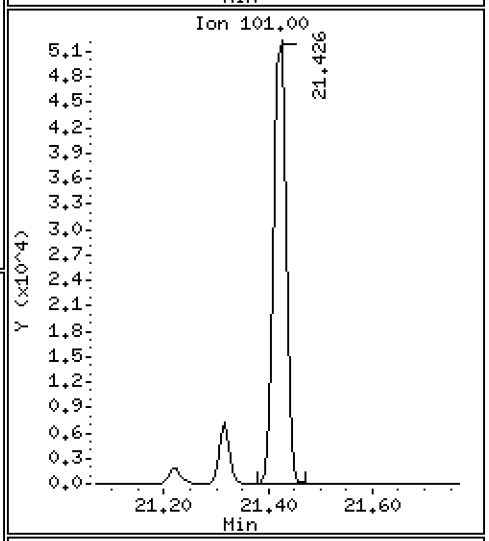


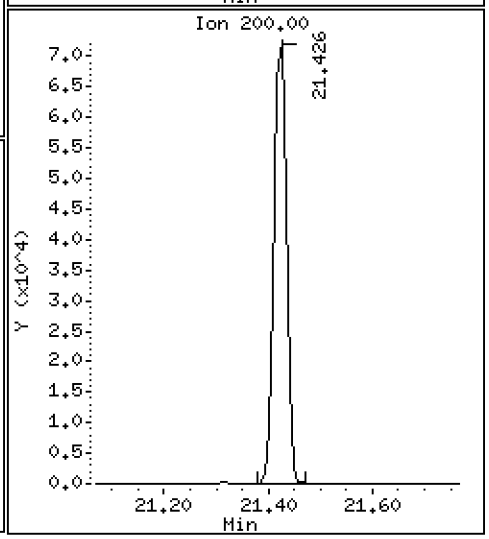












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

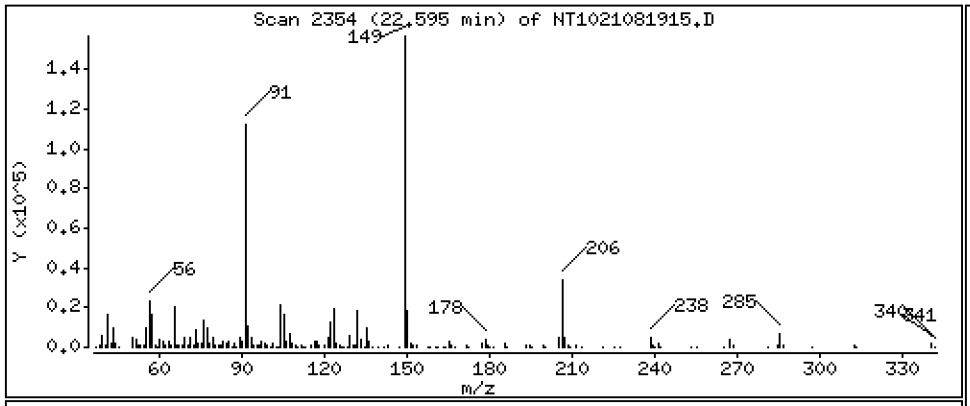
Operator: VTS

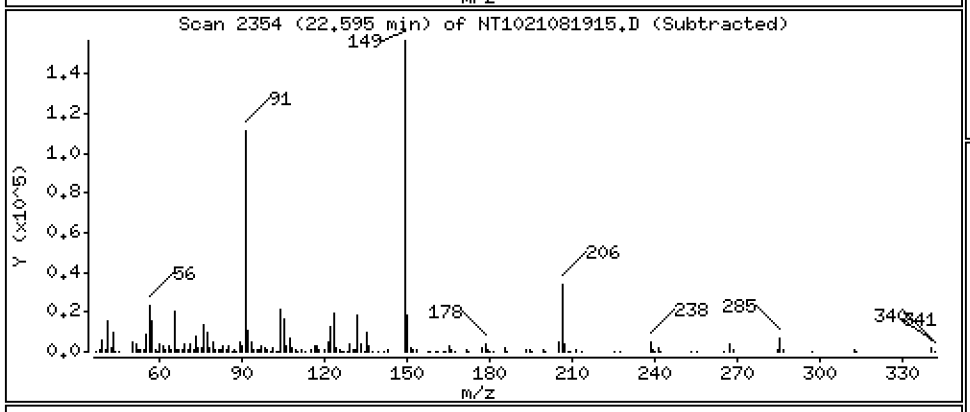
Column phase: ZB-5msi

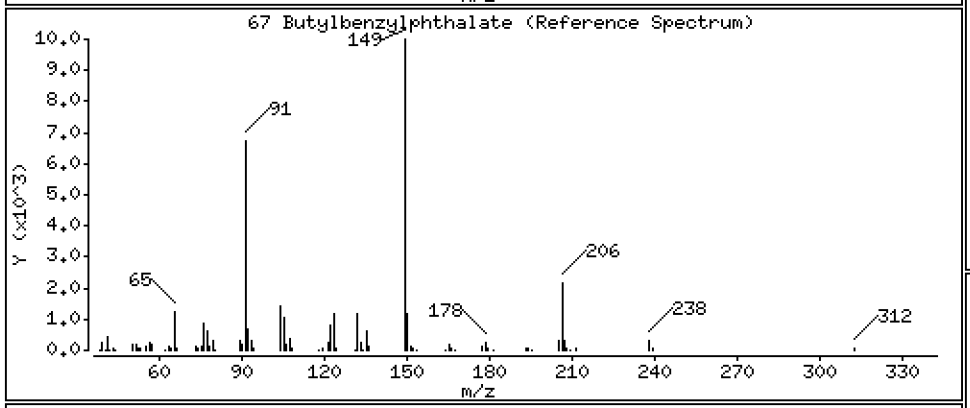
Column diameter: 0.25

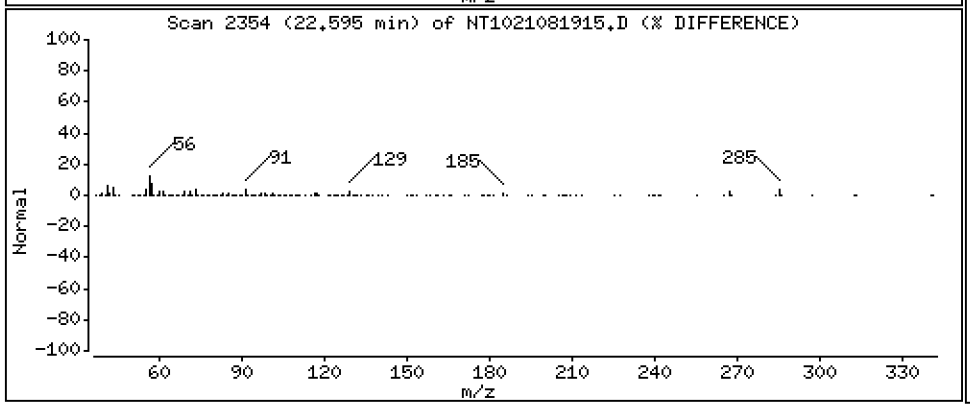
67 Butylbenzylphthalate

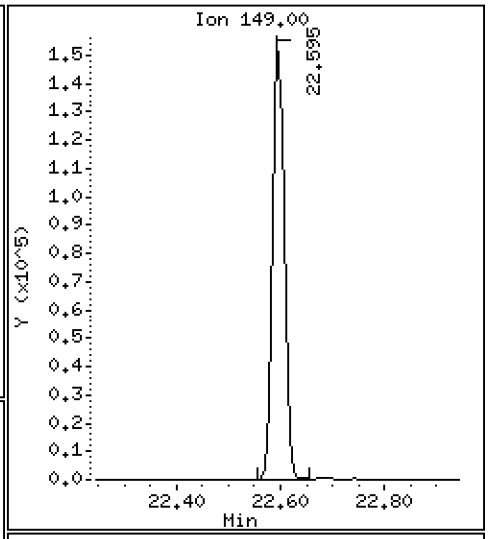
Concentration: 4.889 ug/mL

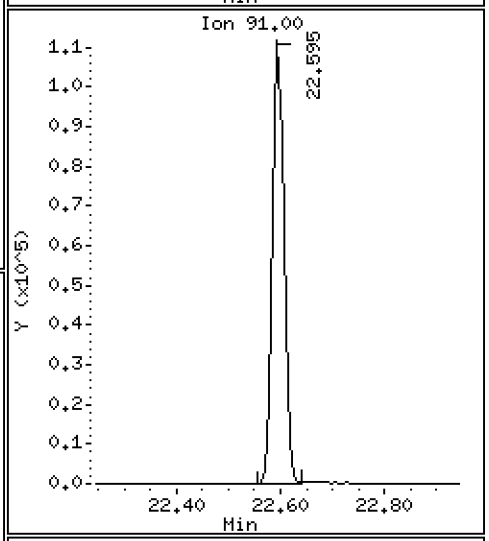


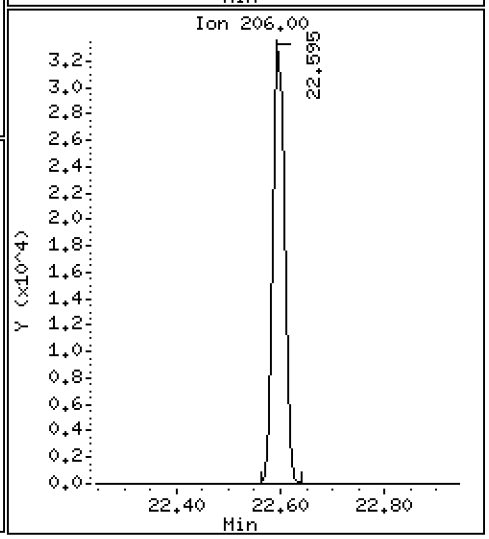












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

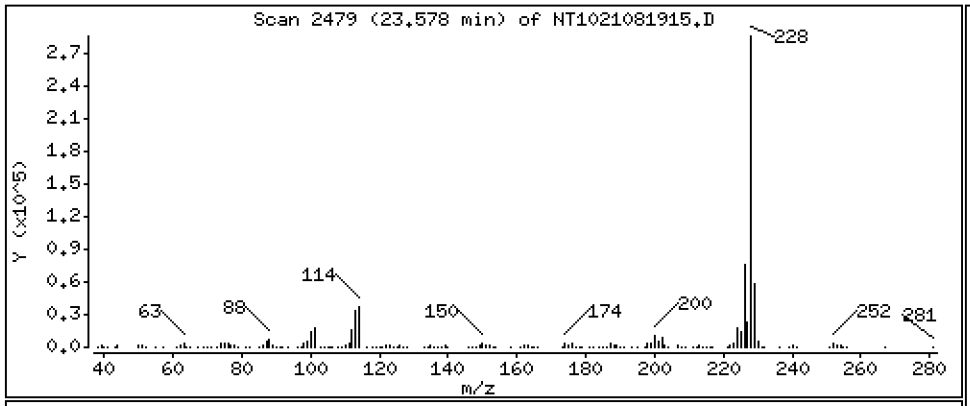
Operator: VTS

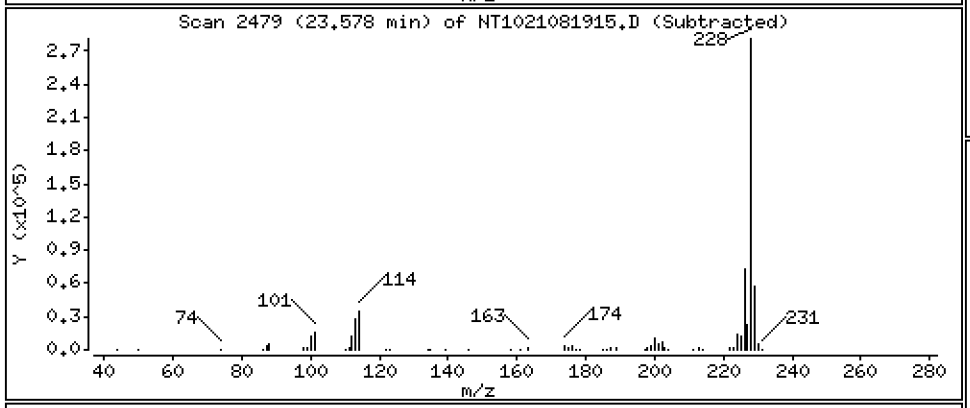
Column phase: ZB-5msi

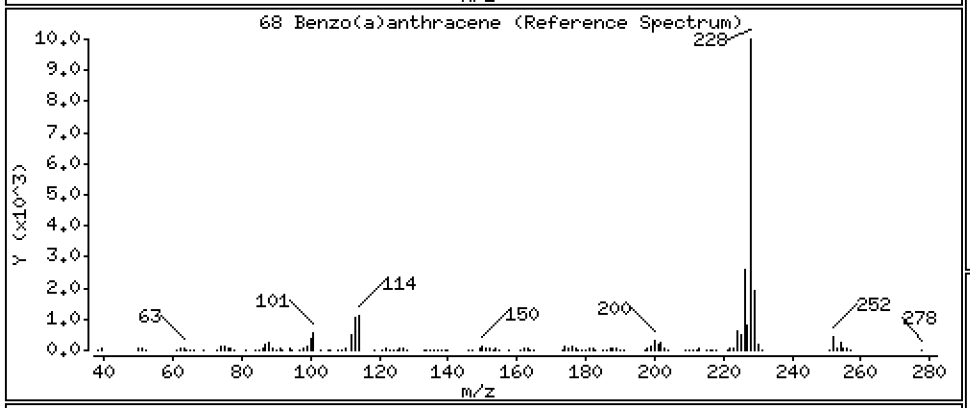
Column diameter: 0.25

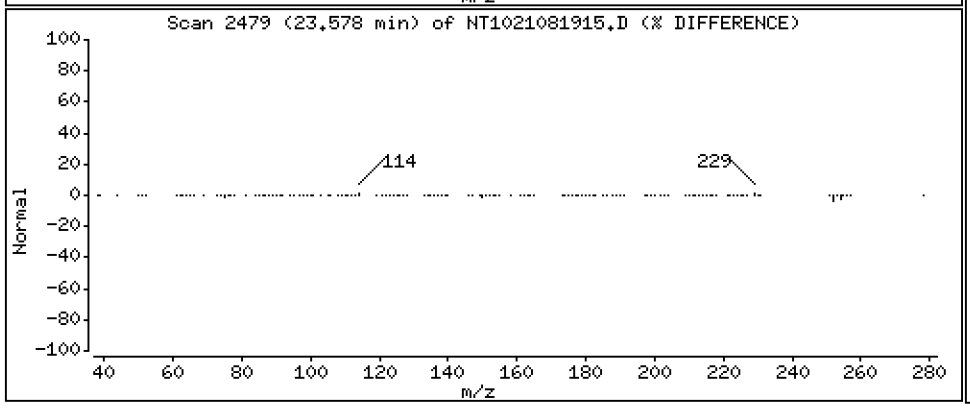
68 Benzo(a)anthracene

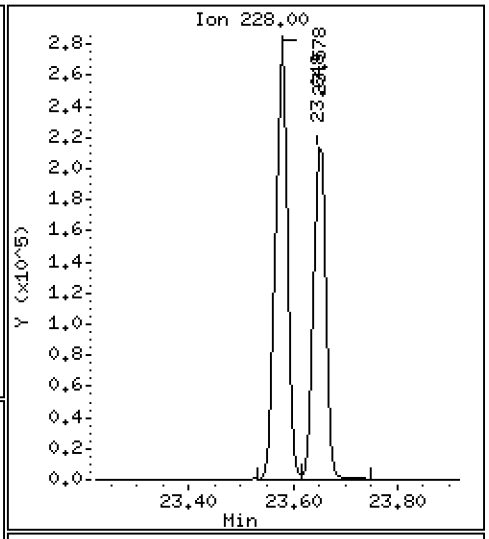
Concentration: 4.800 ug/mL

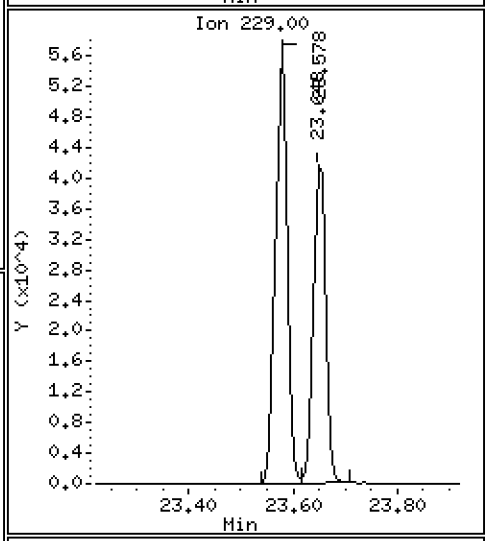


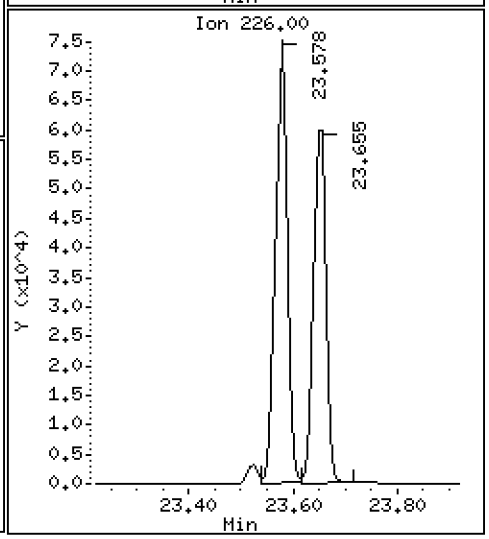












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

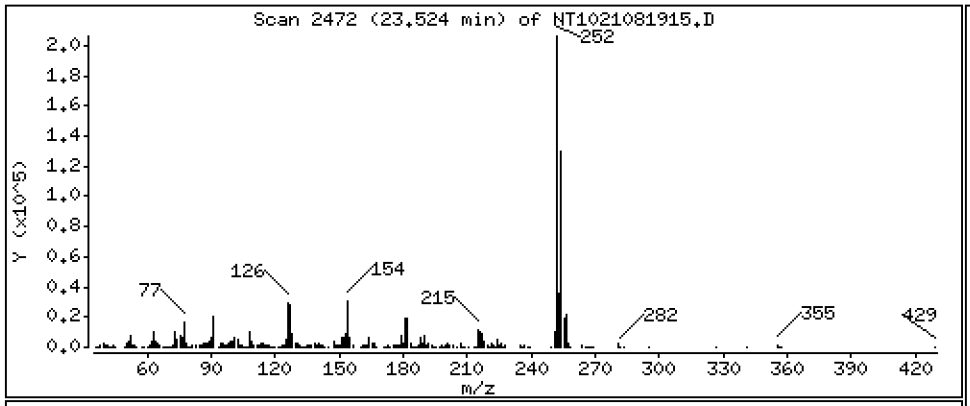
Operator: VTS

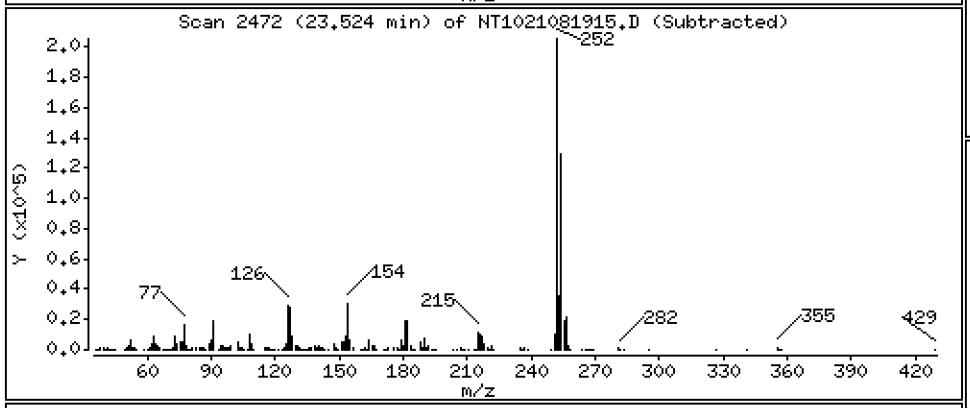
Column phase: ZB-5msi

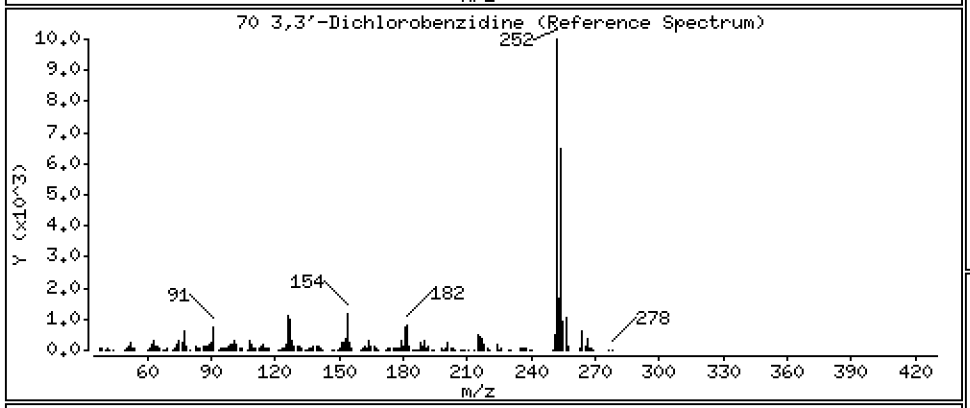
Column diameter: 0.25

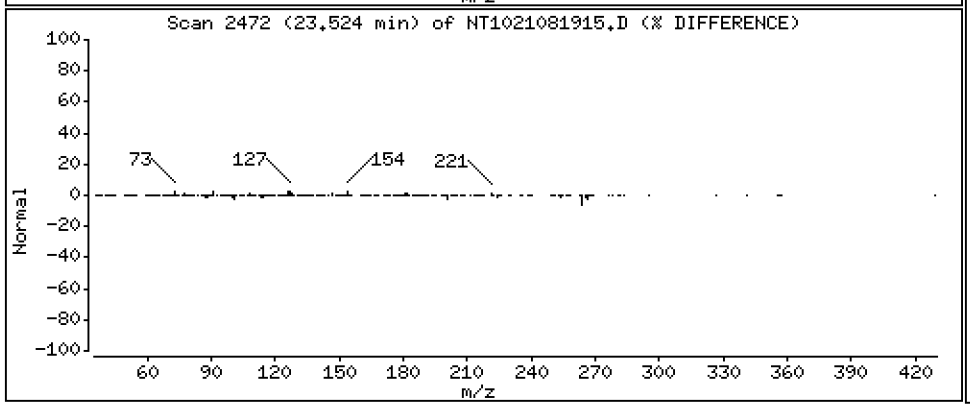
70 3,3'-Dichlorobenzidine

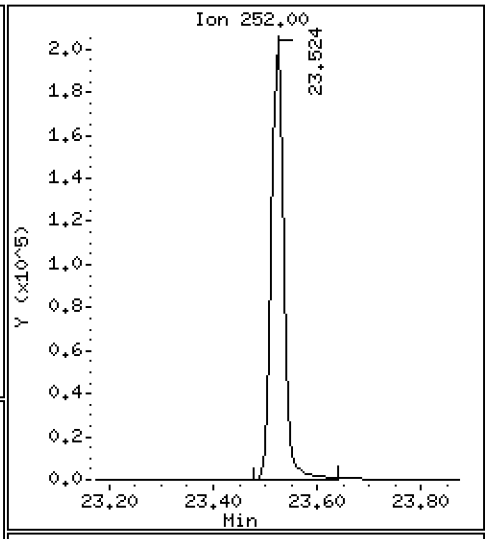
Concentration: 8.830 ug/mL

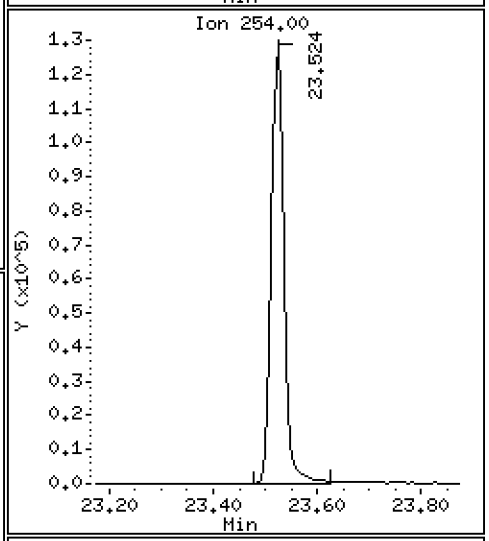


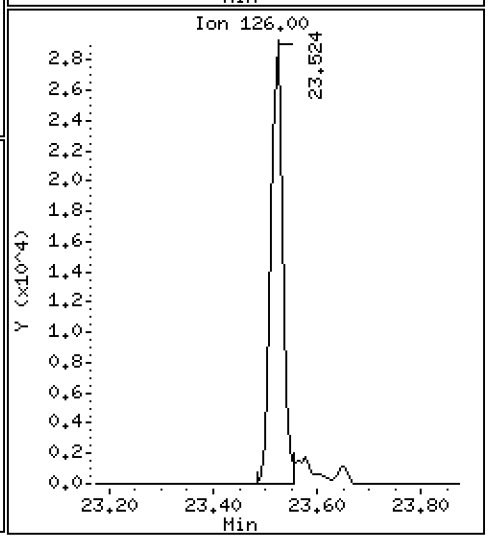












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

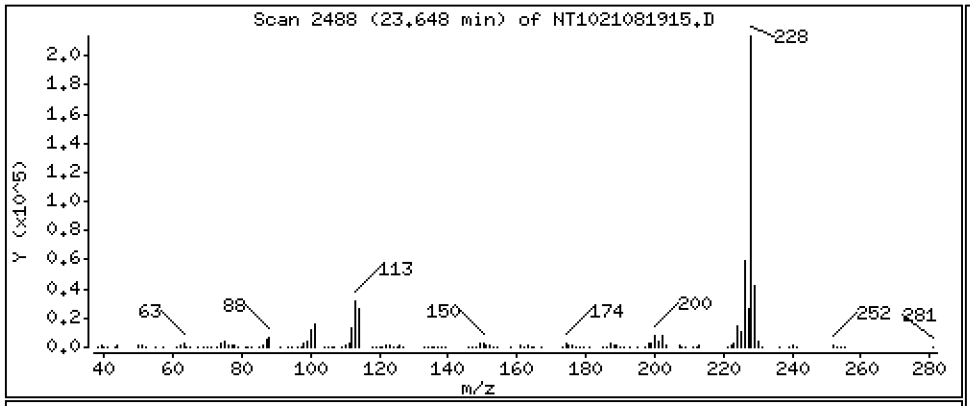
Operator: VTS

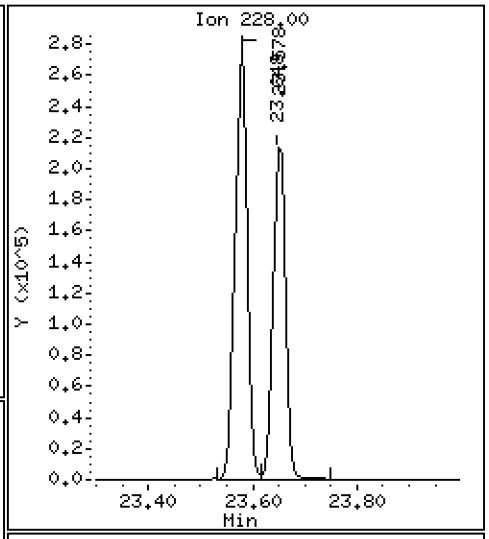
Column phase: ZB-5msi

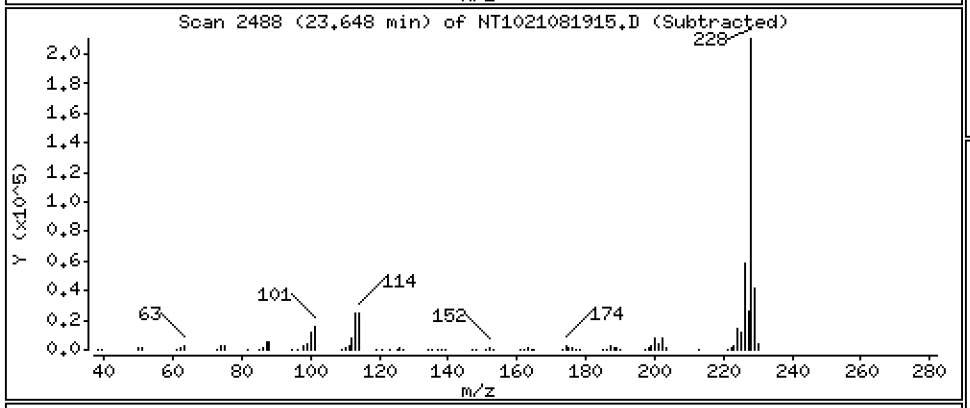
Column diameter: 0.25

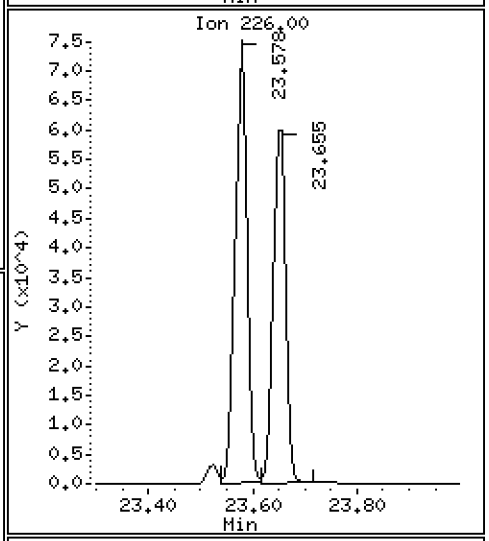
71 Chrysene

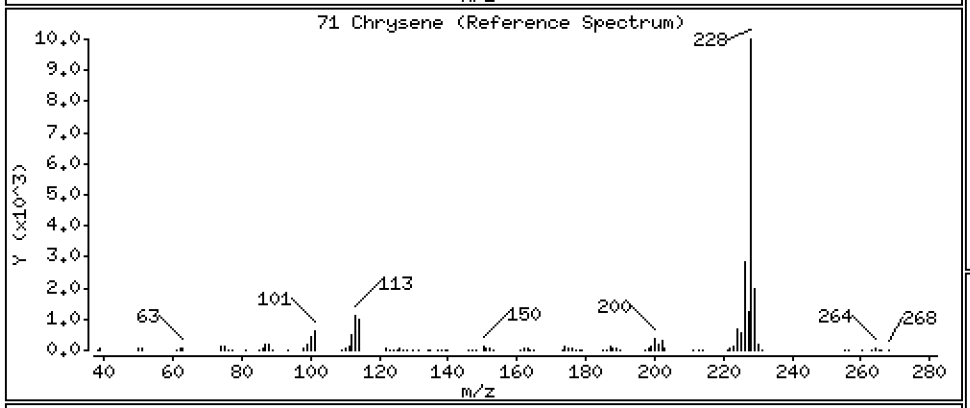
Concentration: 4.687 ug/mL

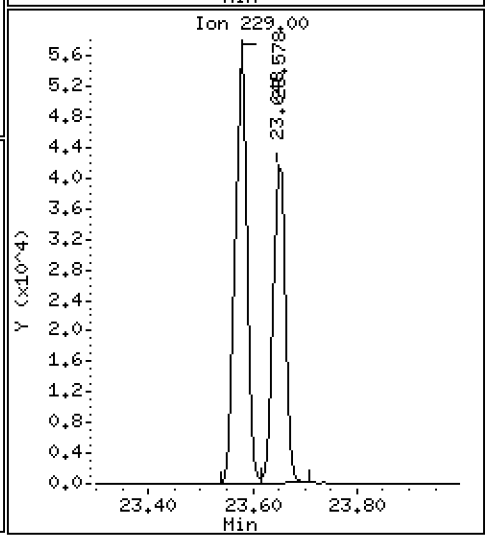


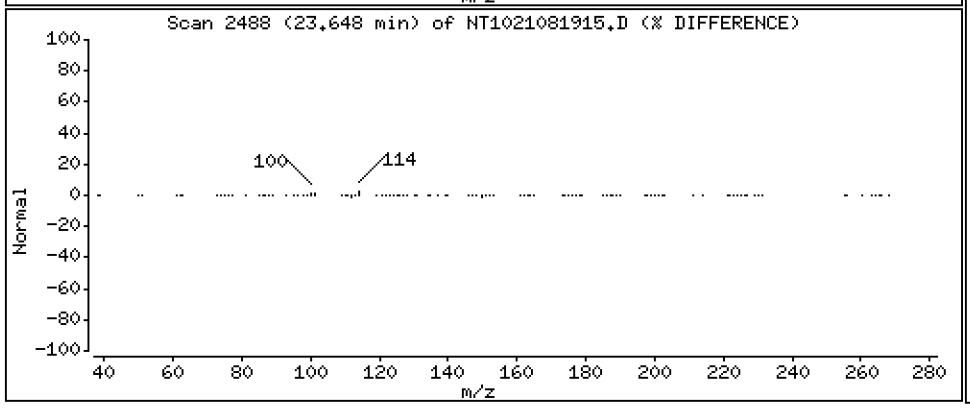












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

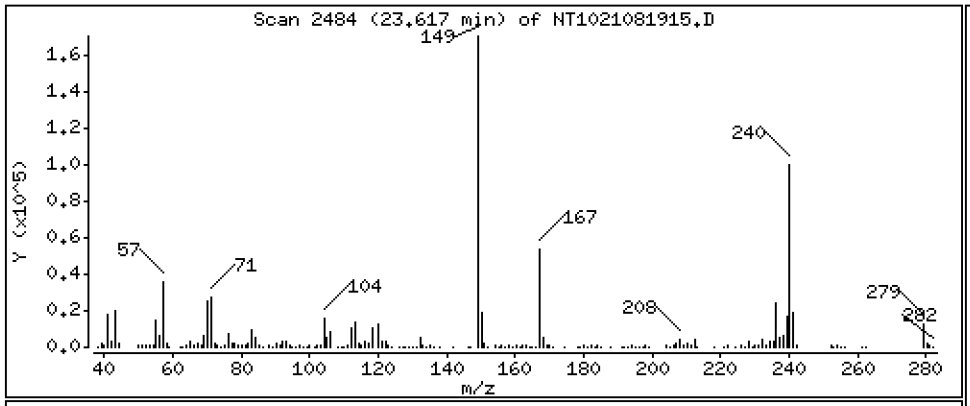
Operator: VTS

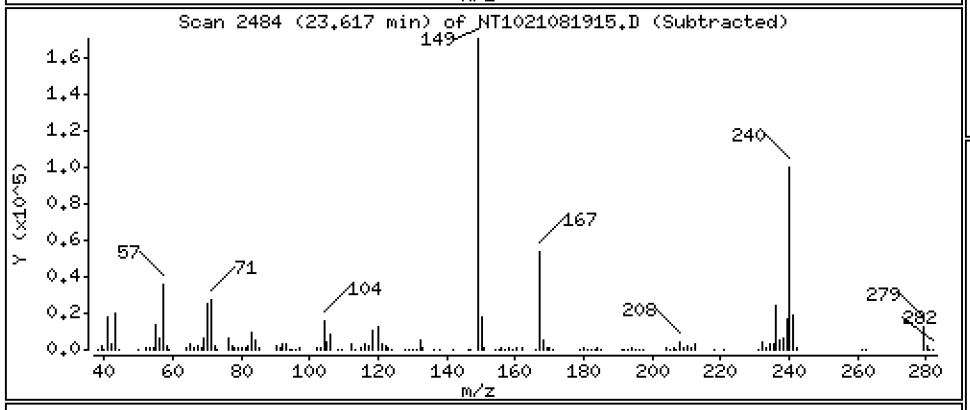
Column phase: ZB-5msi

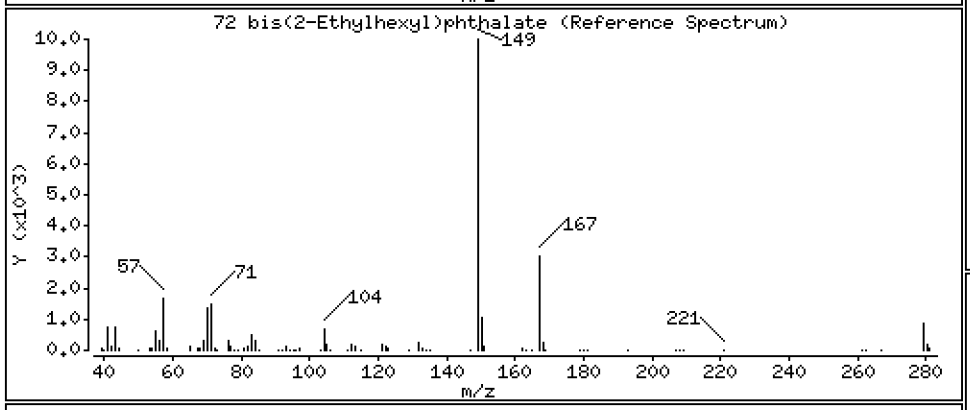
Column diameter: 0.25

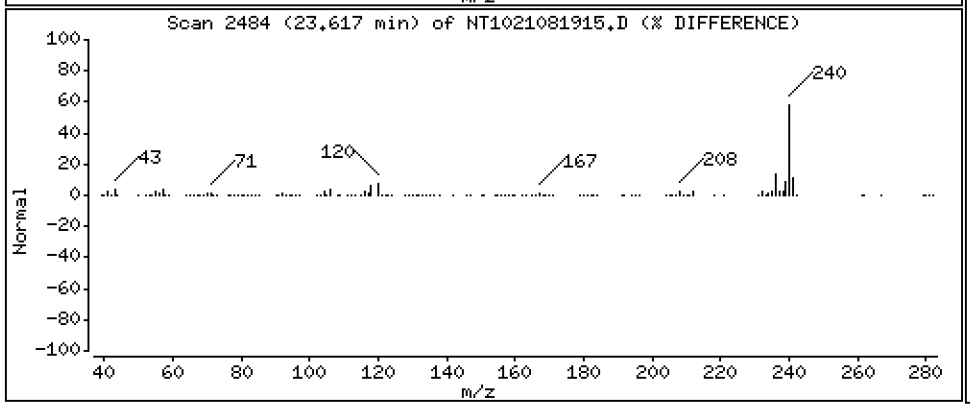
72 bis(2-Ethylhexyl)phthalate

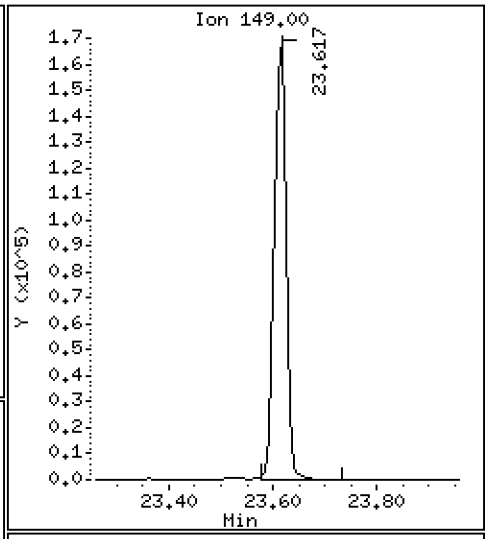
Concentration: 5.362 ug/mL

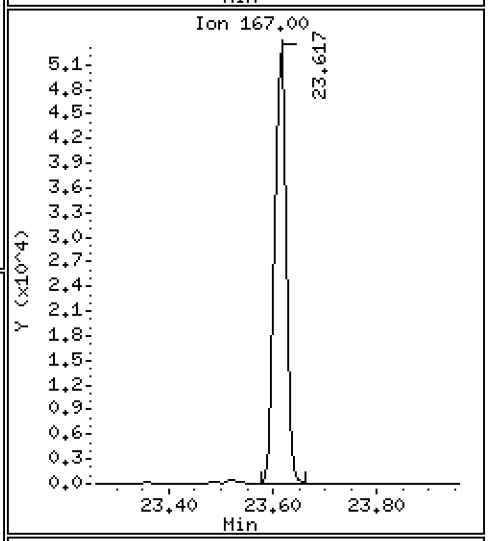


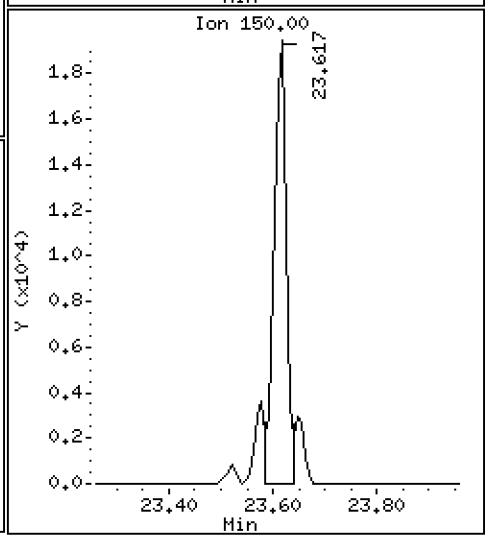












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

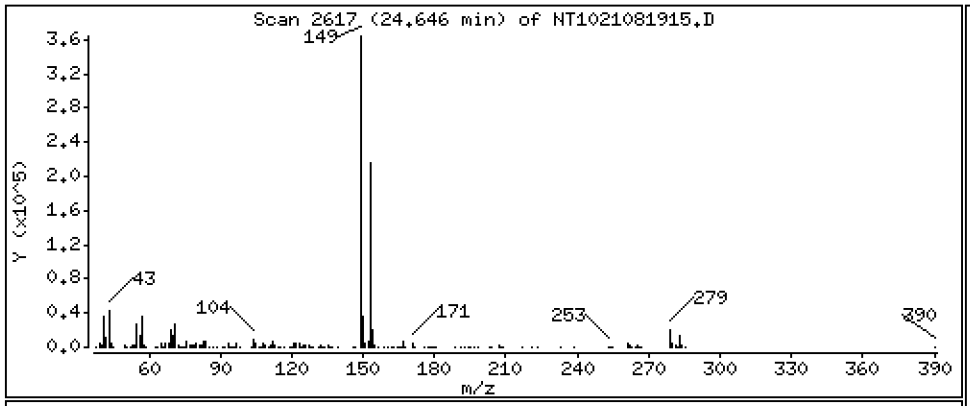
Operator: VTS

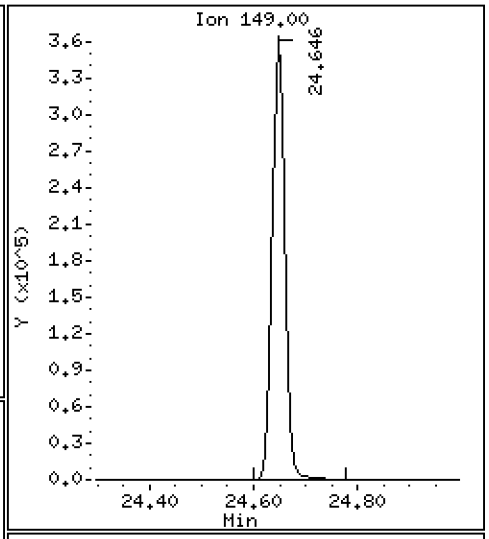
Column phase: ZB-5msi

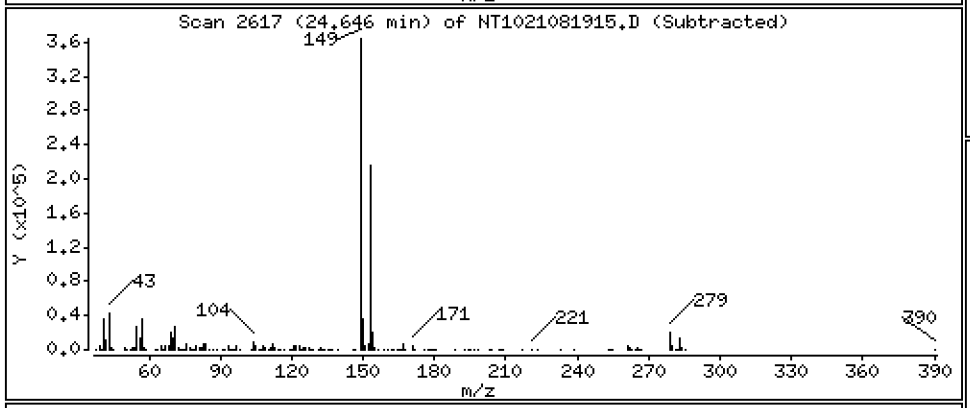
Column diameter: 0.25

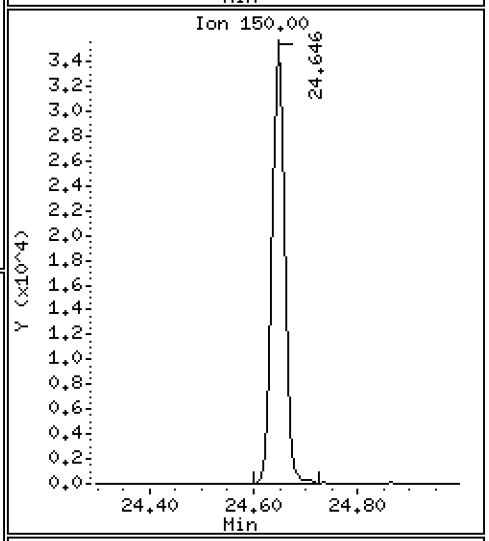
73 Di-n-octylphthalate

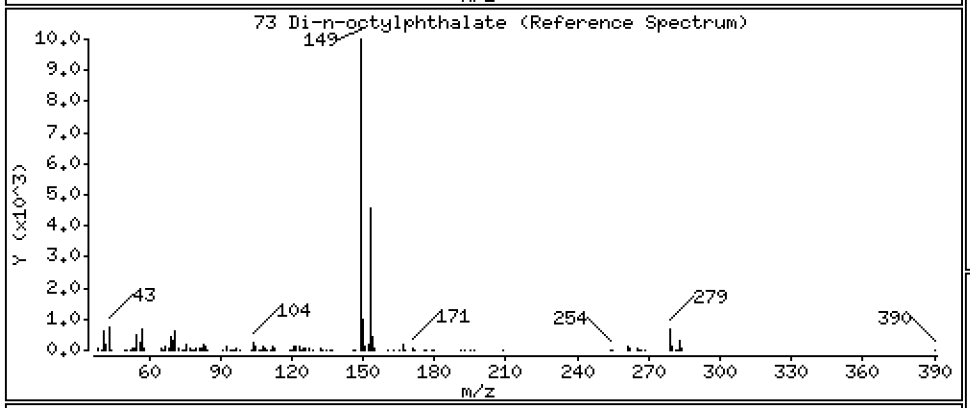
Concentration: 5.228 ug/mL

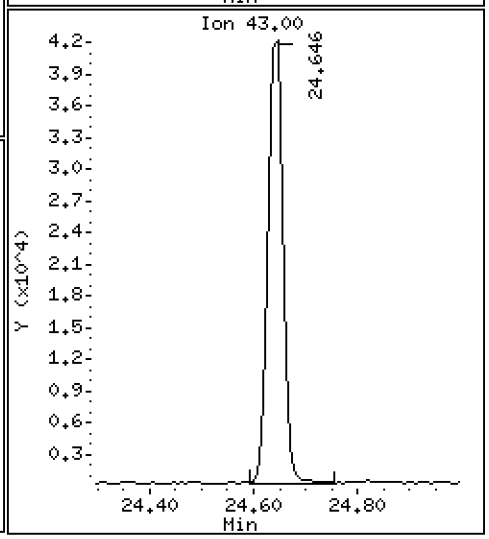


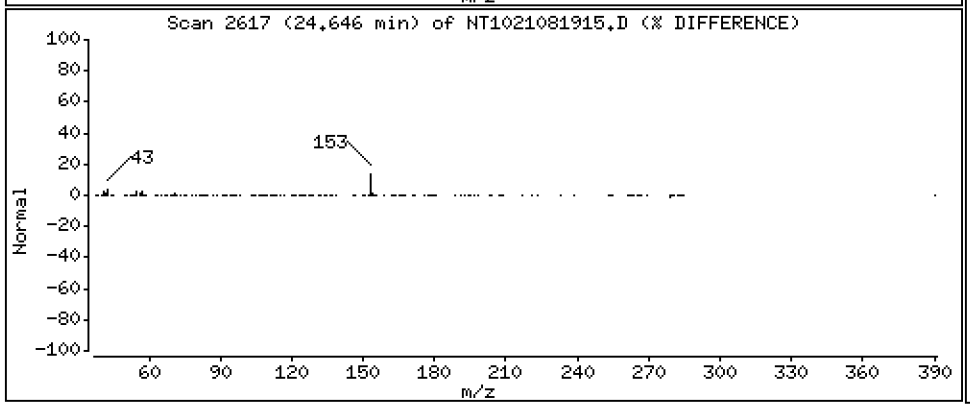












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

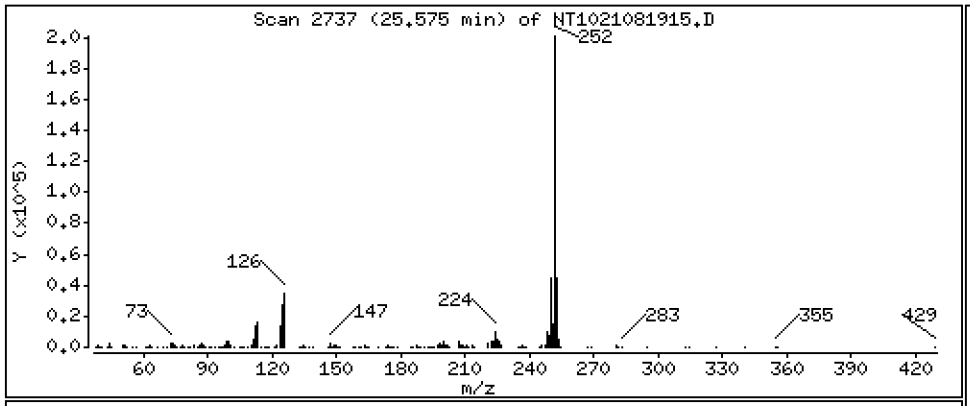
Operator: VTS

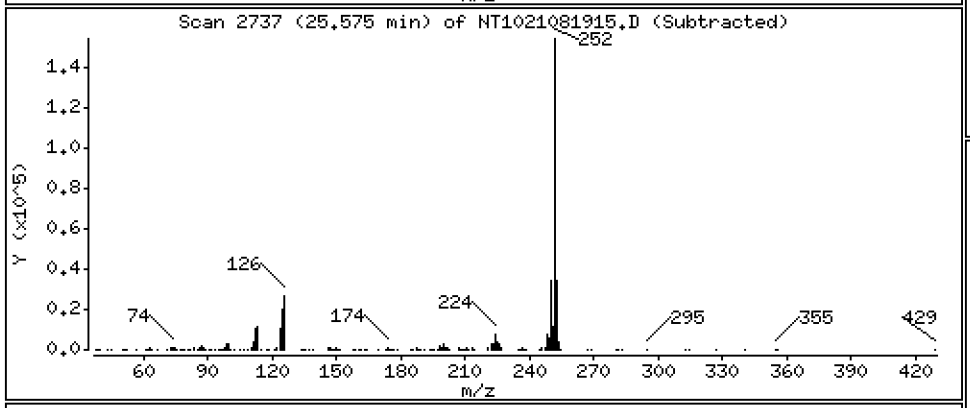
Column phase: ZB-5msi

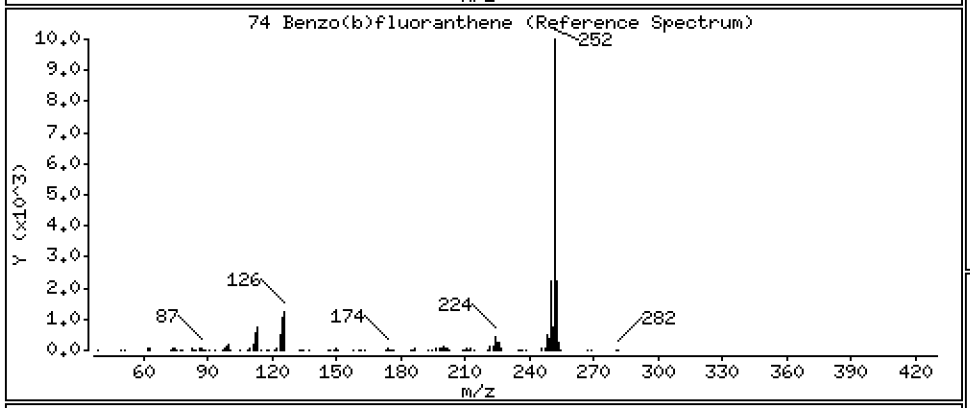
Column diameter: 0.25

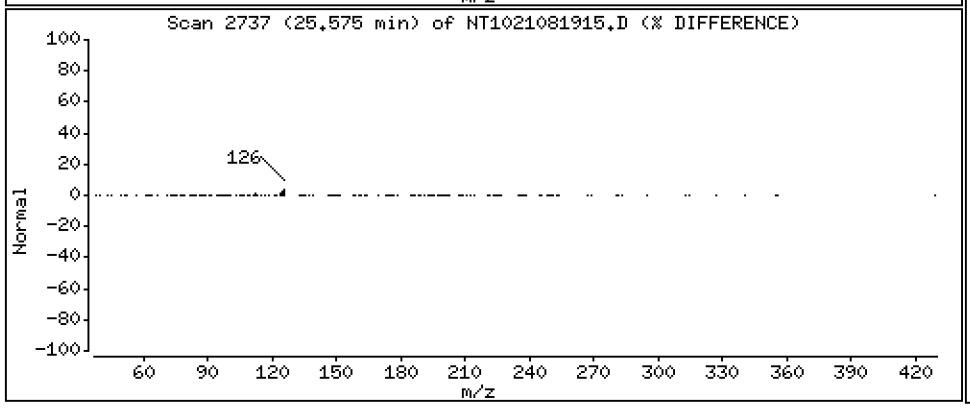
74 Benzo(b)fluoranthene

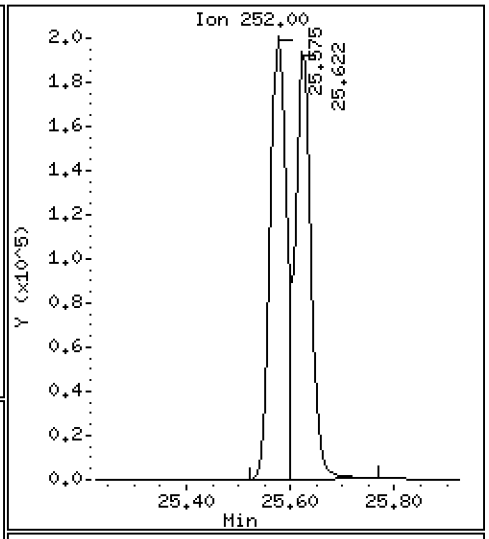
Concentration: 4.877 ug/mL

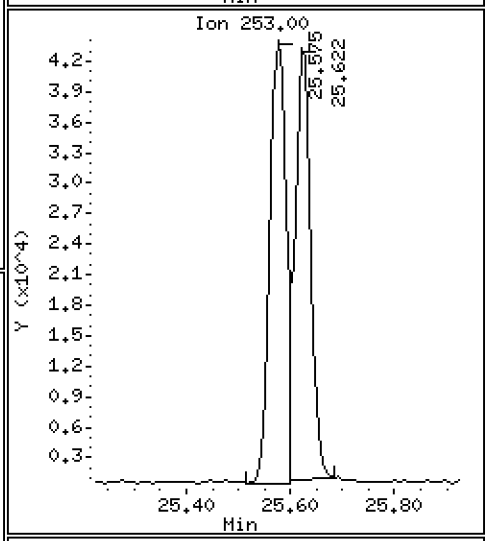


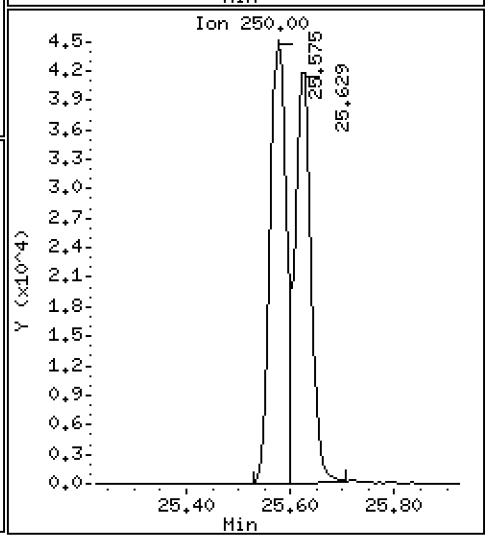












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

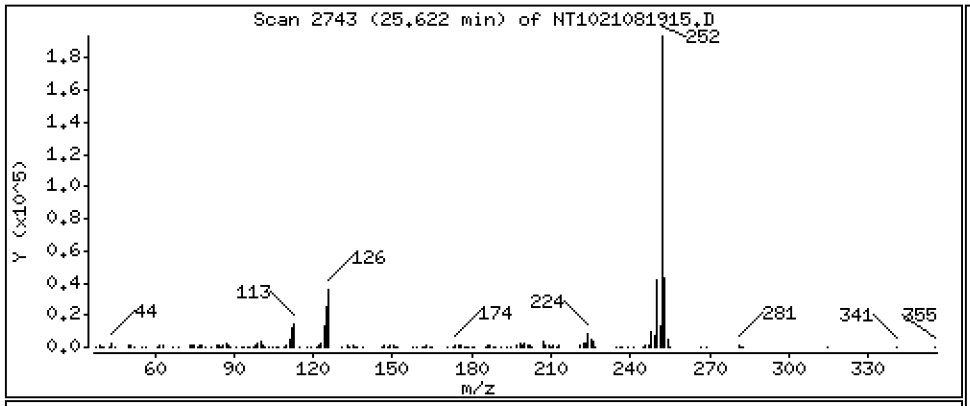
Operator: VTS

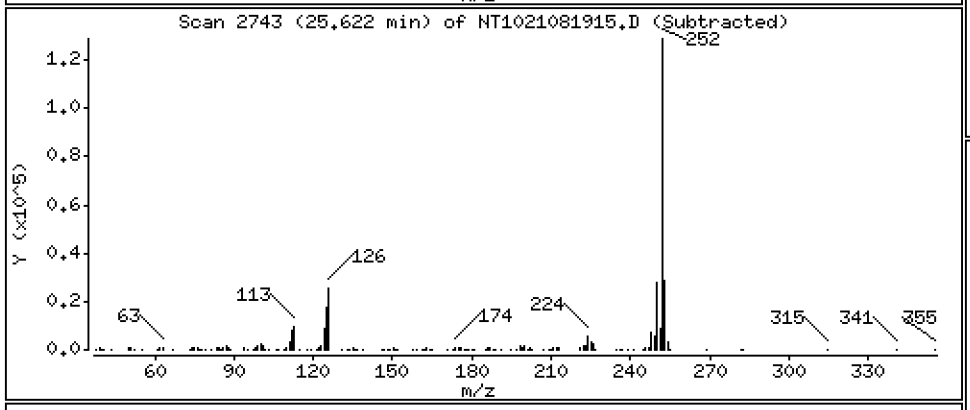
Column phase: ZB-5msi

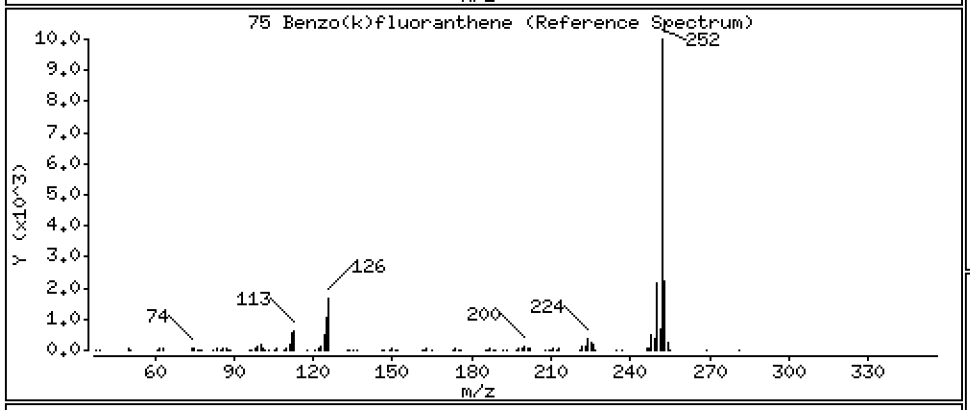
Column diameter: 0.25

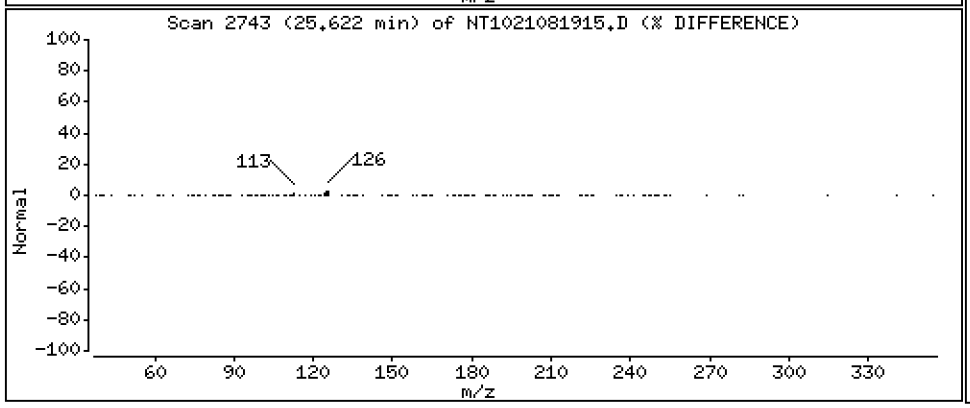
75 Benzo(k)fluoranthene

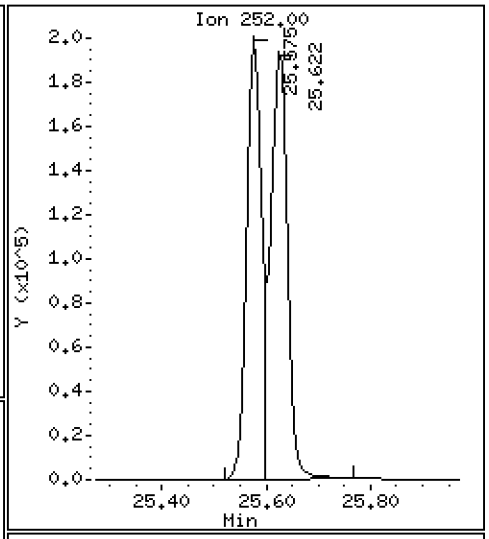
Concentration: 5.195 ug/mL

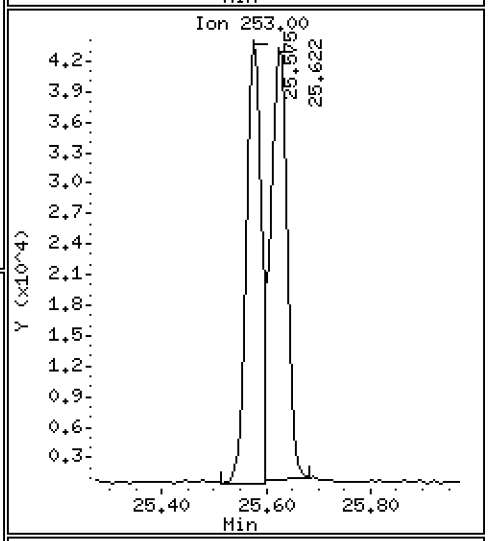


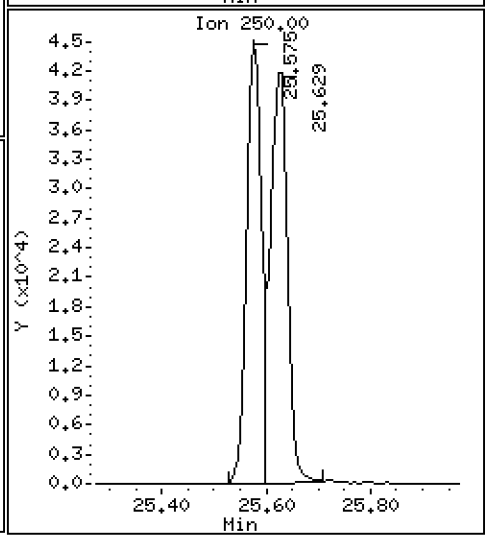












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

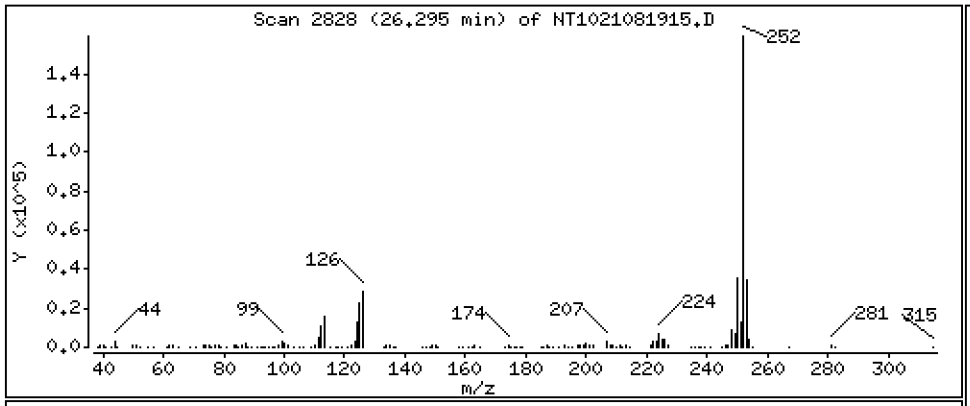
Operator: VTS

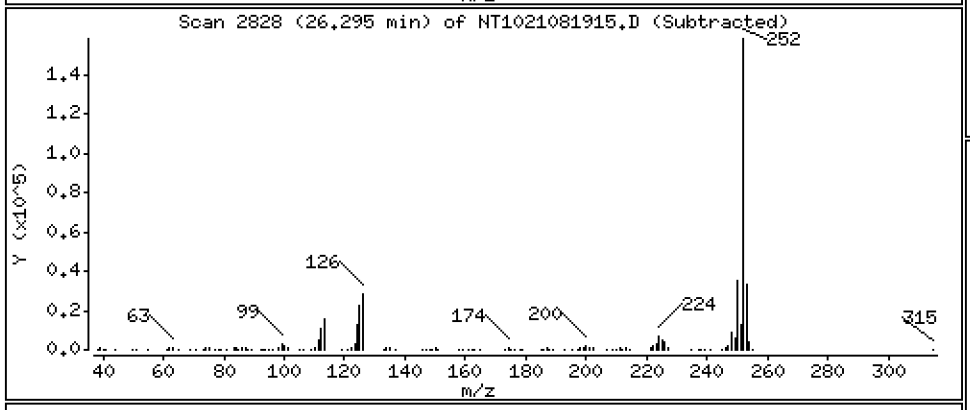
Column phase: ZB-5msi

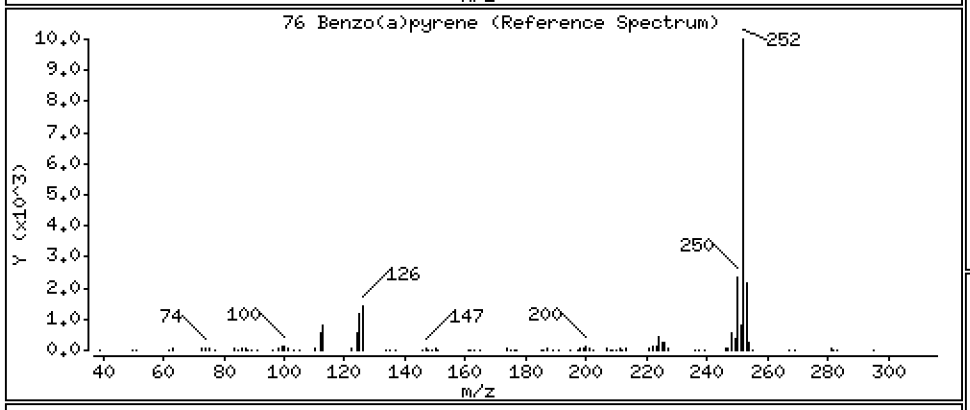
Column diameter: 0.25

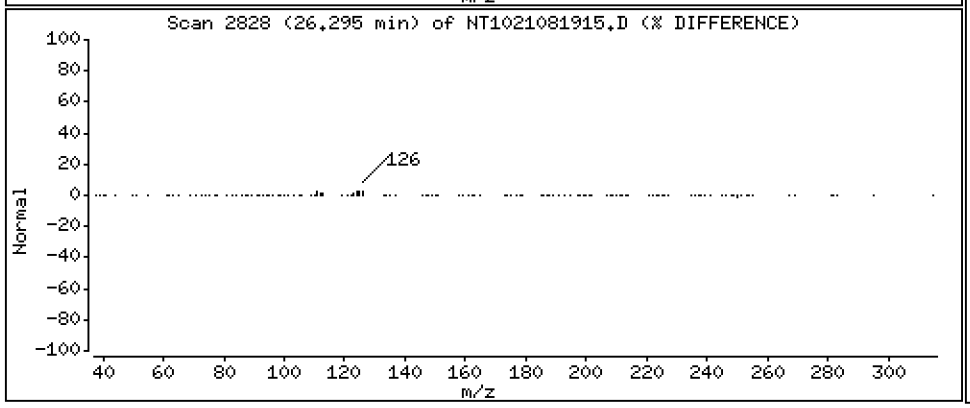
76 Benzo(a)pyrene

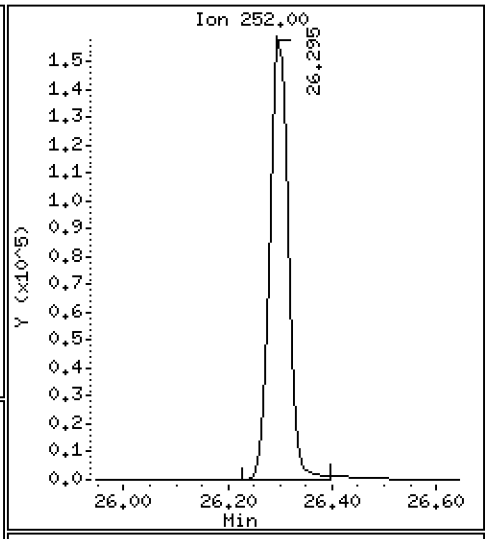
Concentration: 4.980 ug/mL

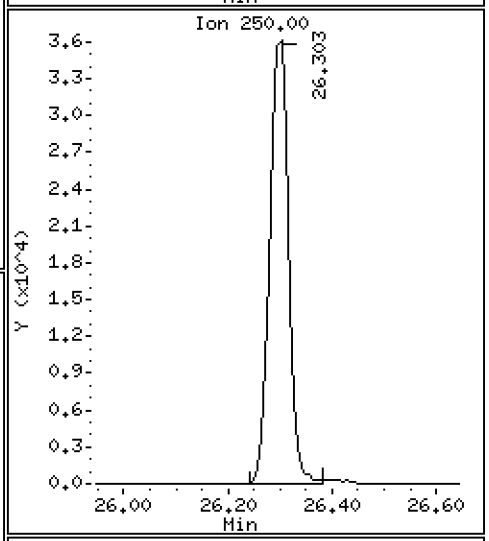


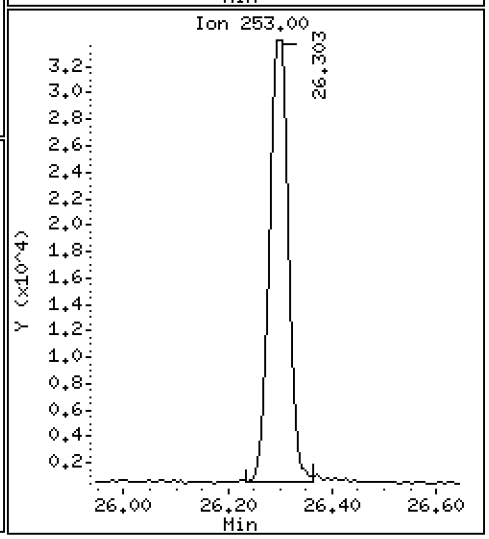












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

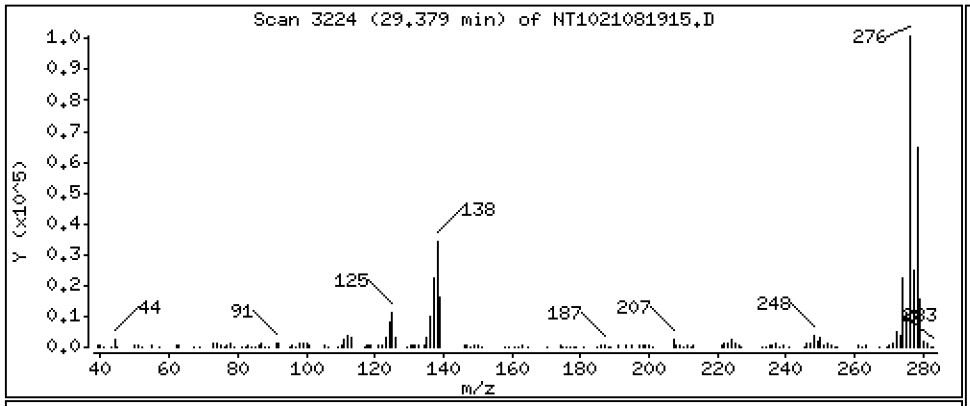
Operator: VTS

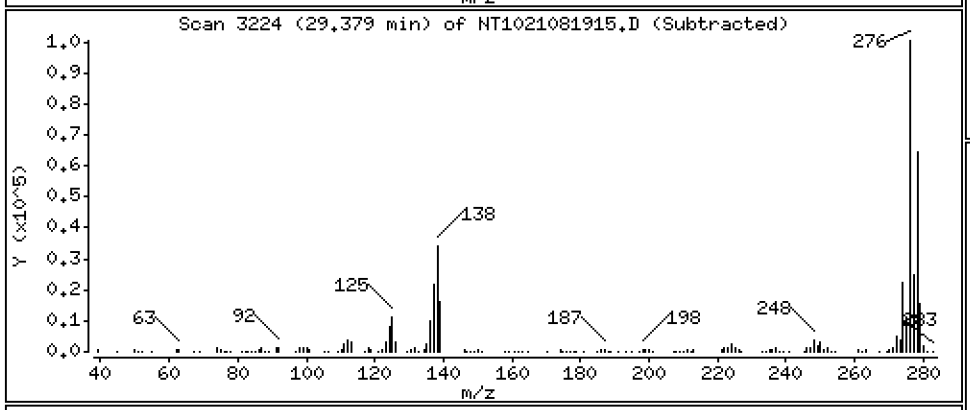
Column phase: ZB-5msi

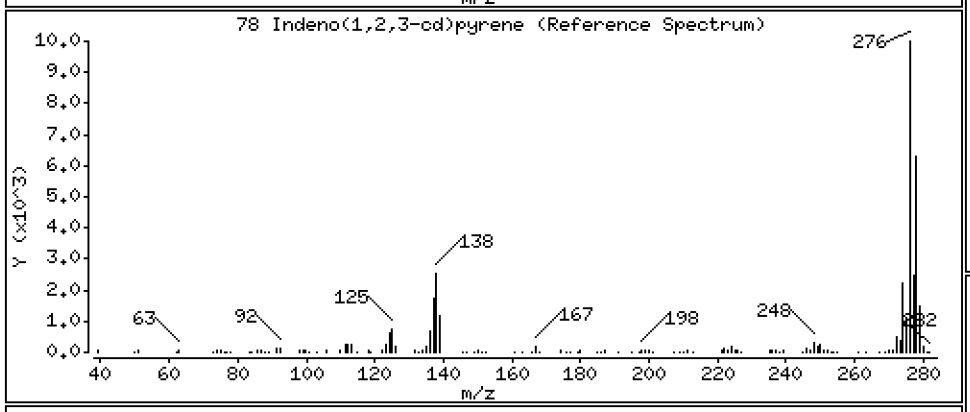
Column diameter: 0.25

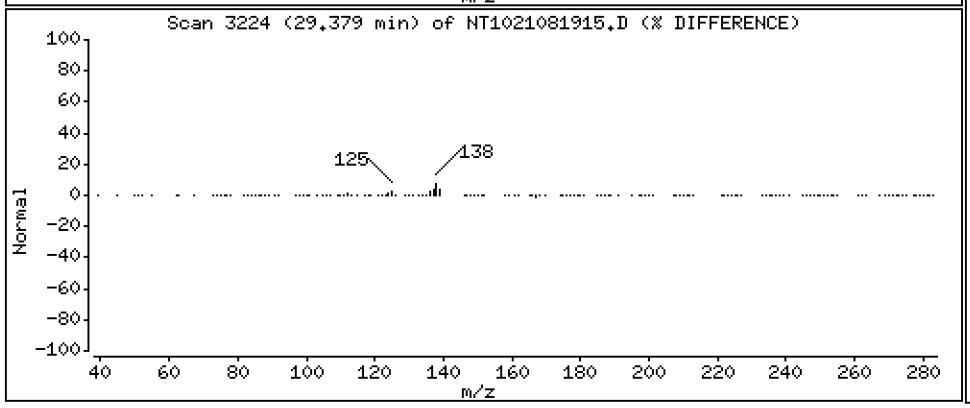
78 Indeno(1,2,3-cd)pyrene

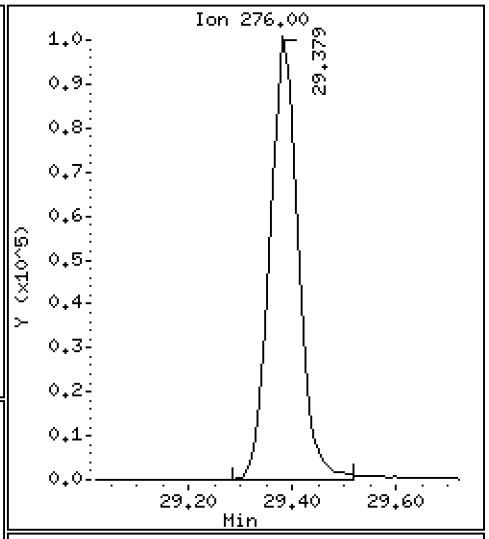
Concentration: 4.855 ug/mL

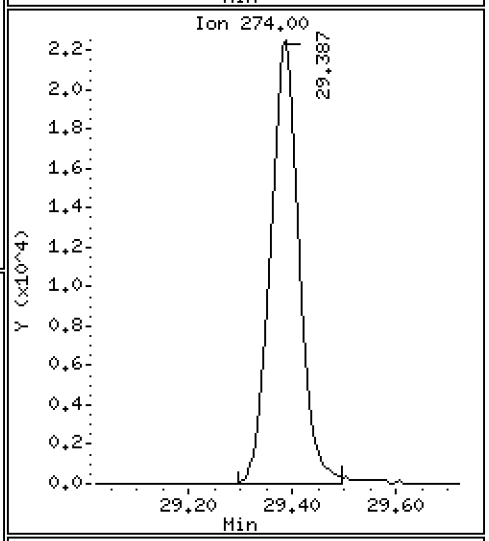


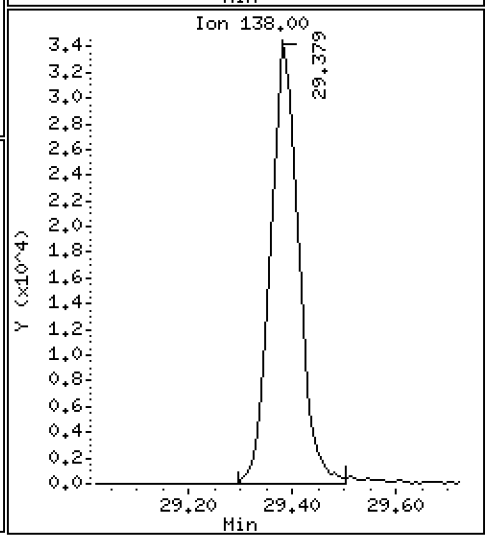












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

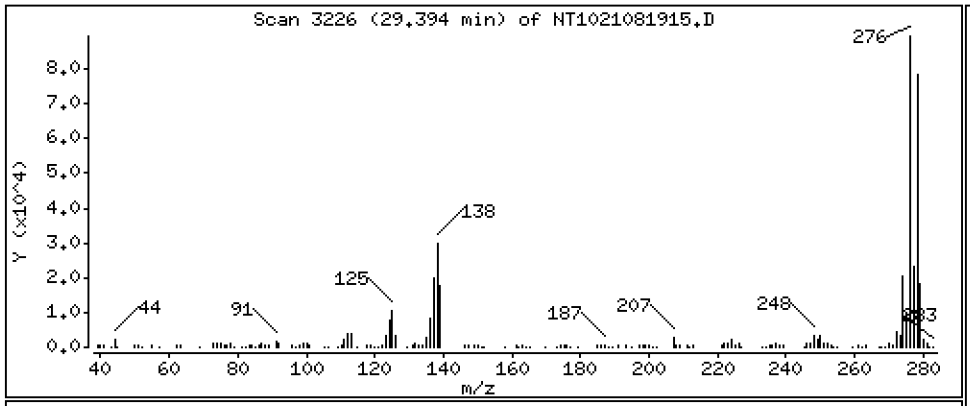
Operator: VTS

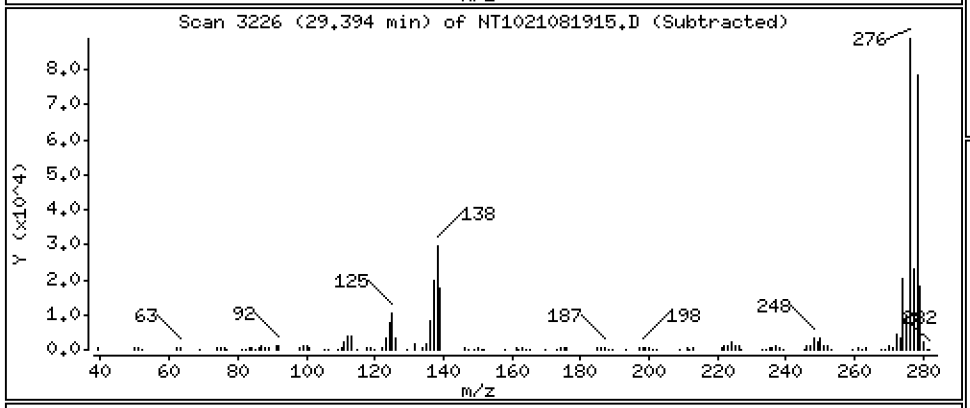
Column phase: ZB-5msi

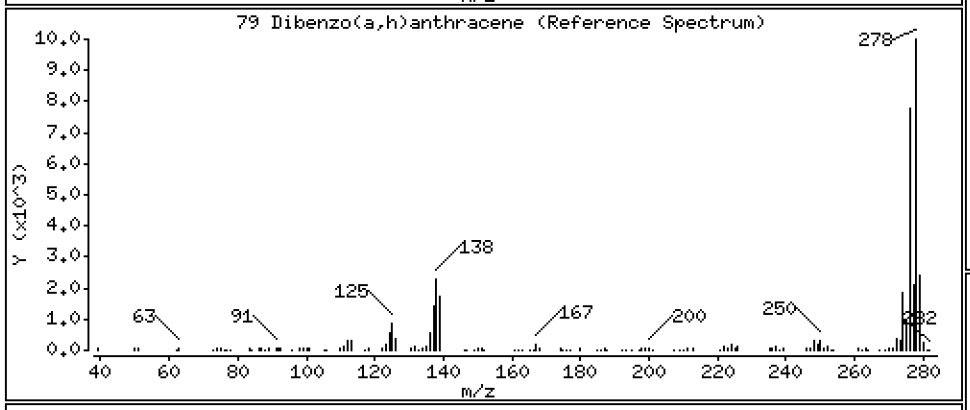
Column diameter: 0.25

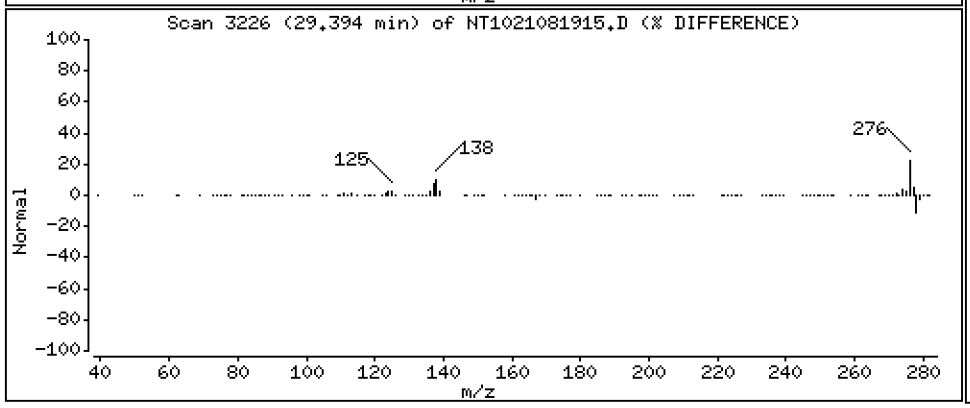
79 Dibenzo(a,h)anthracene

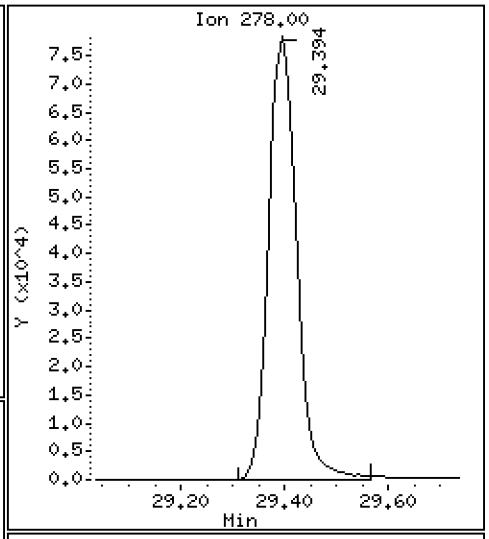
Concentration: 4.838 ug/mL

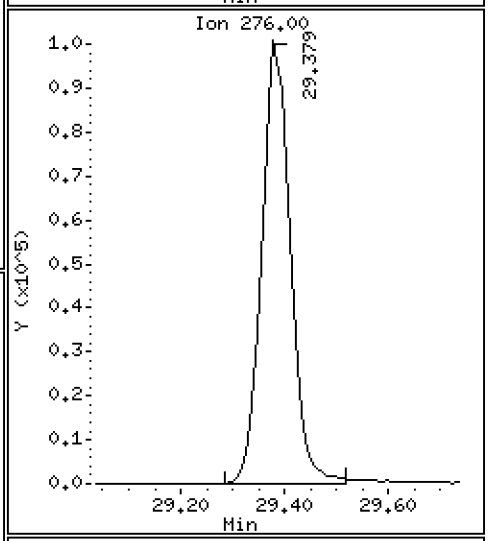


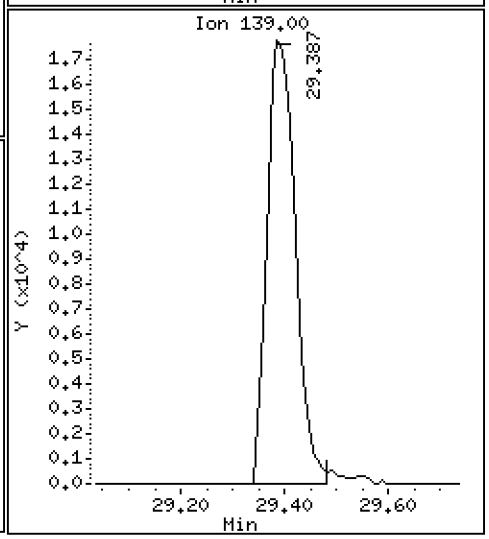












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

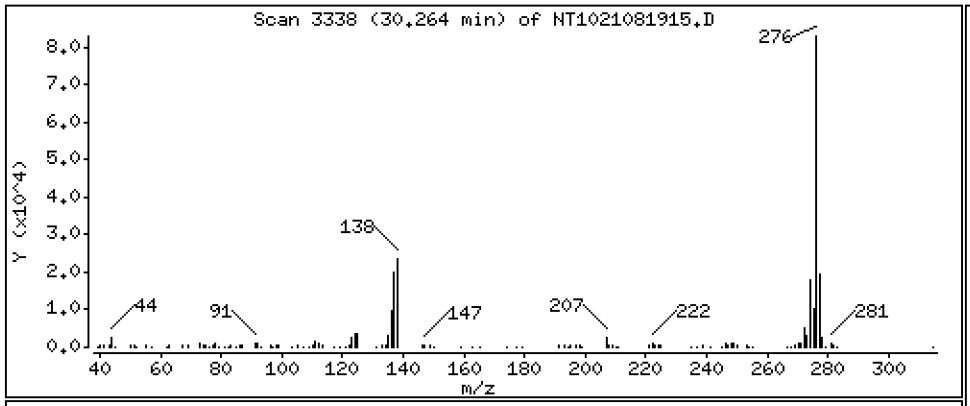
Operator: VTS

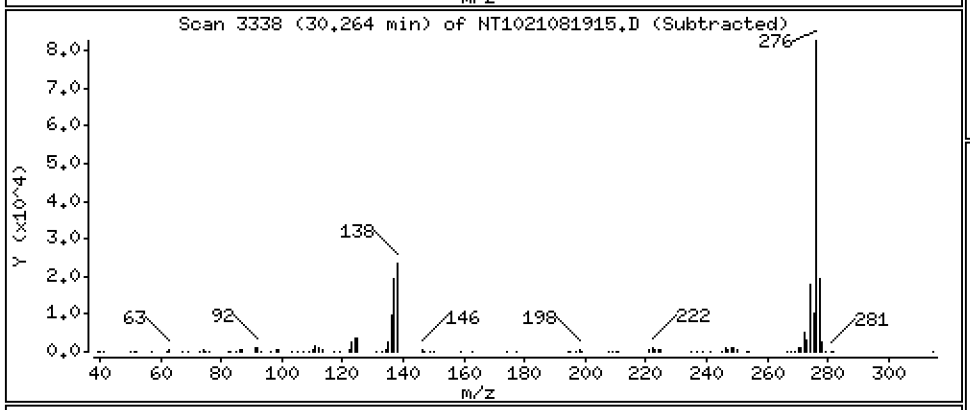
Column phase: ZB-5msi

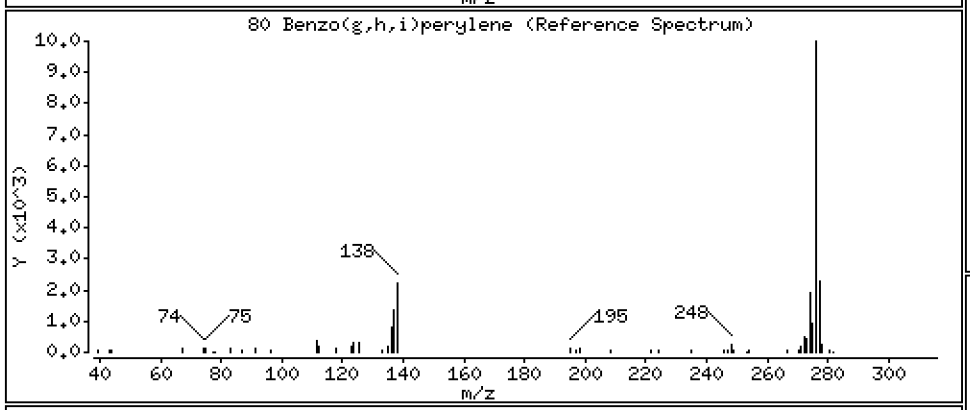
Column diameter: 0.25

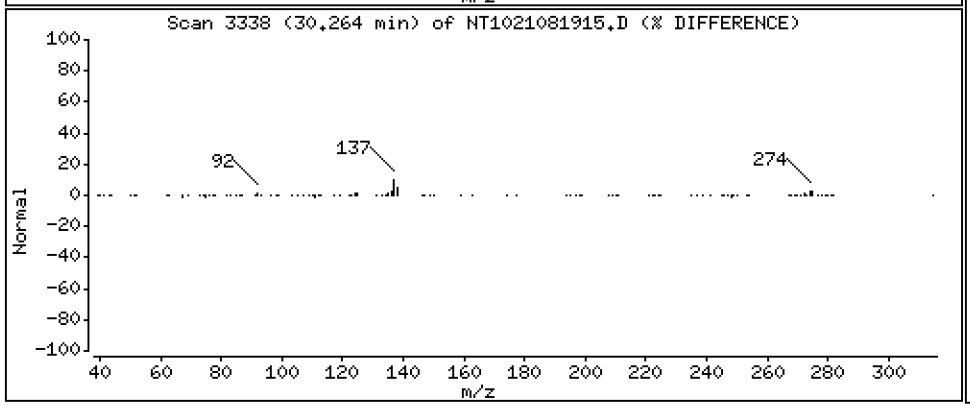
80 Benzo(g,h,i)perylene

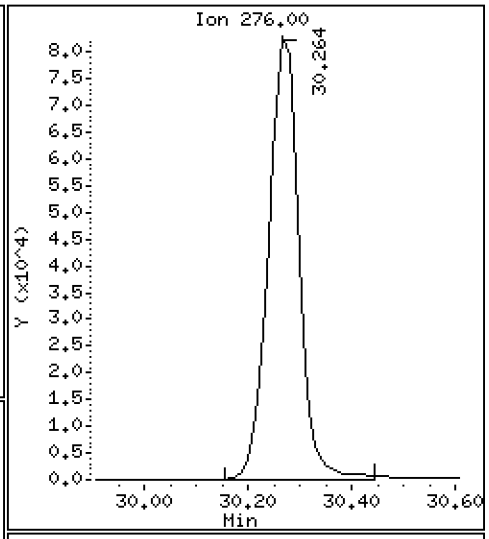
Concentration: 4.923 ug/mL

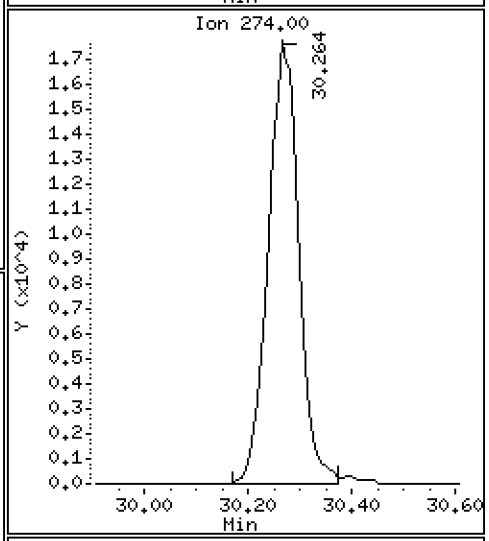


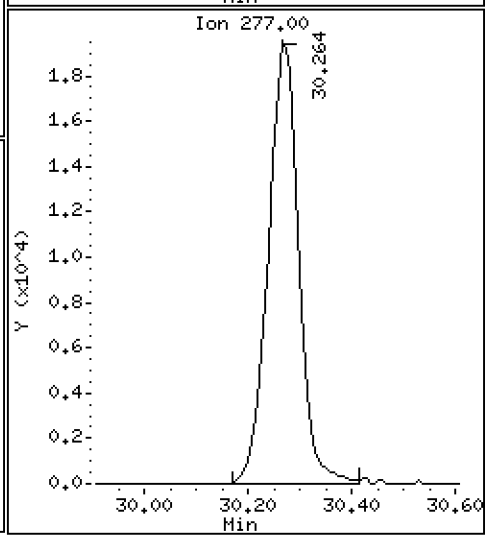












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

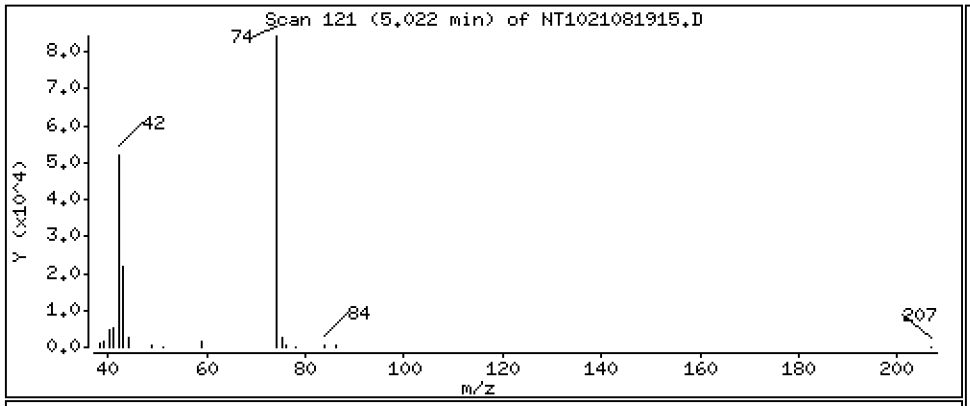
Operator: VTS

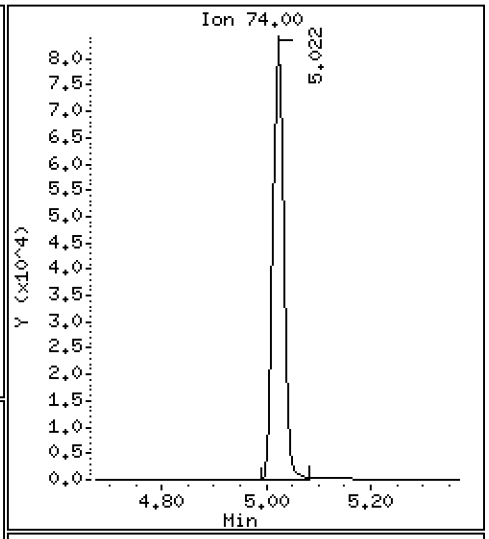
Column phase: ZB-5msi

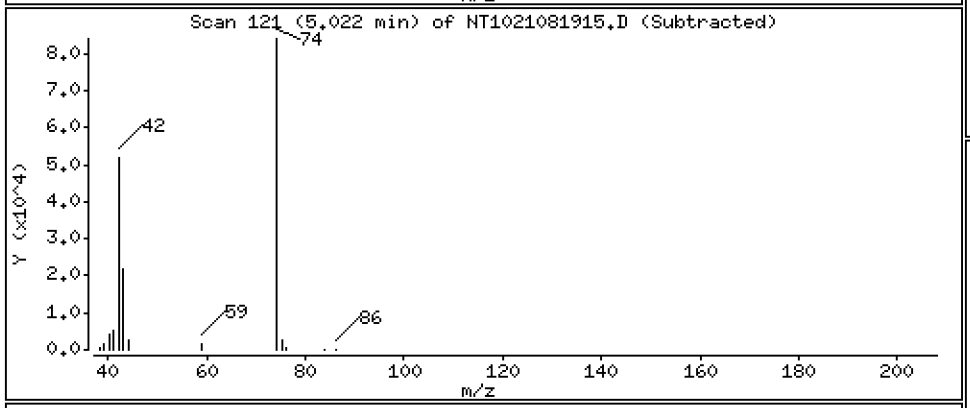
Column diameter: 0.25

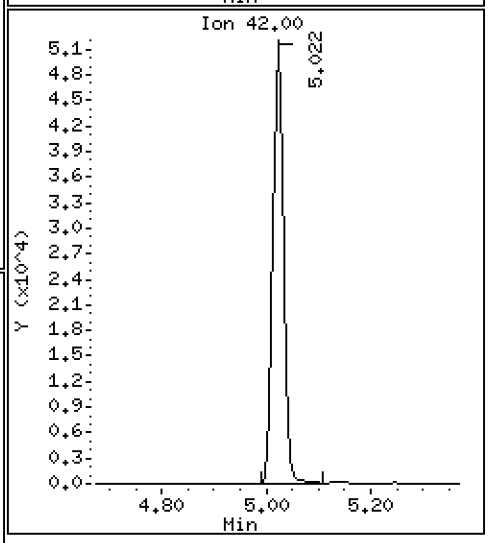
90 N-Nitrosodimethylamine

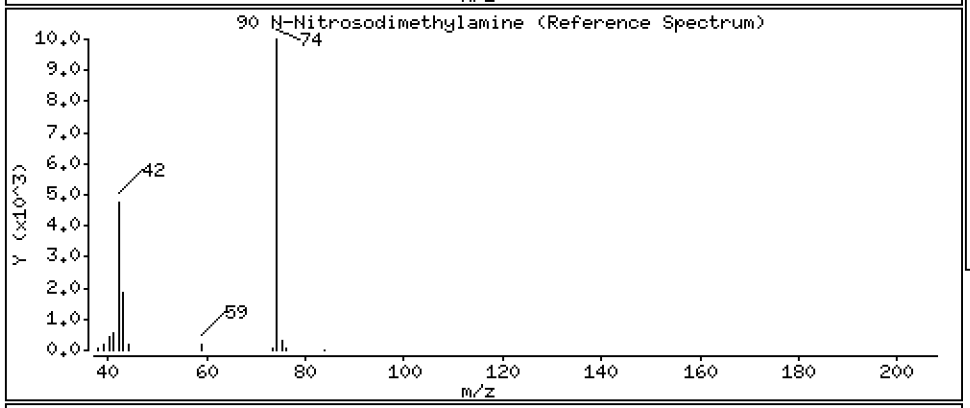
Concentration: 6.037 ug/mL

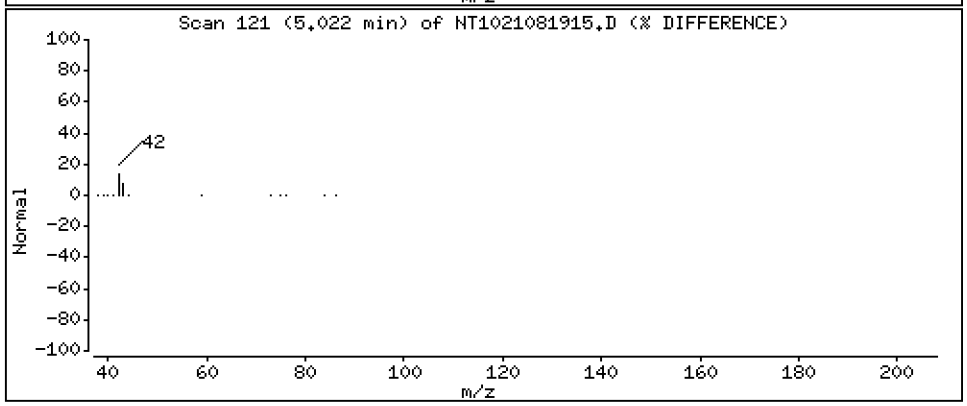












Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D

Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

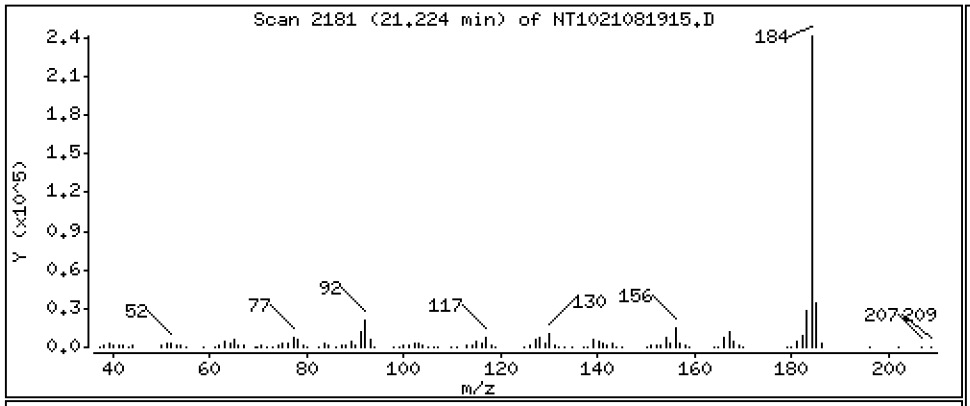
Operator: VTS

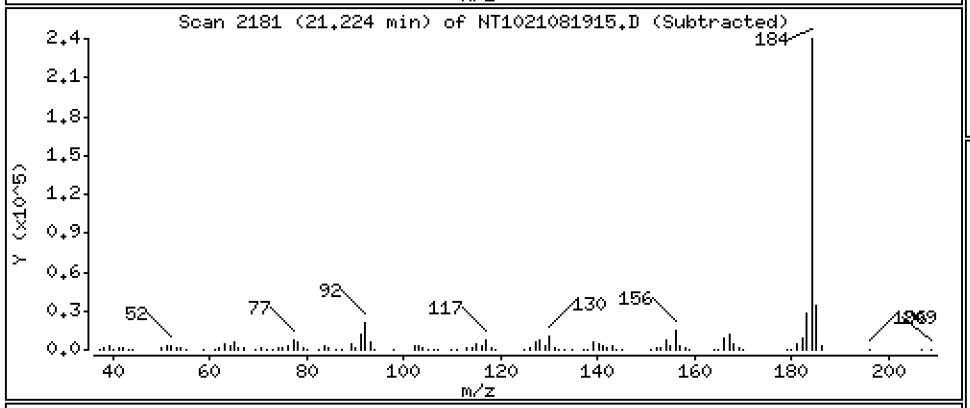
Column phase: ZB-5msi

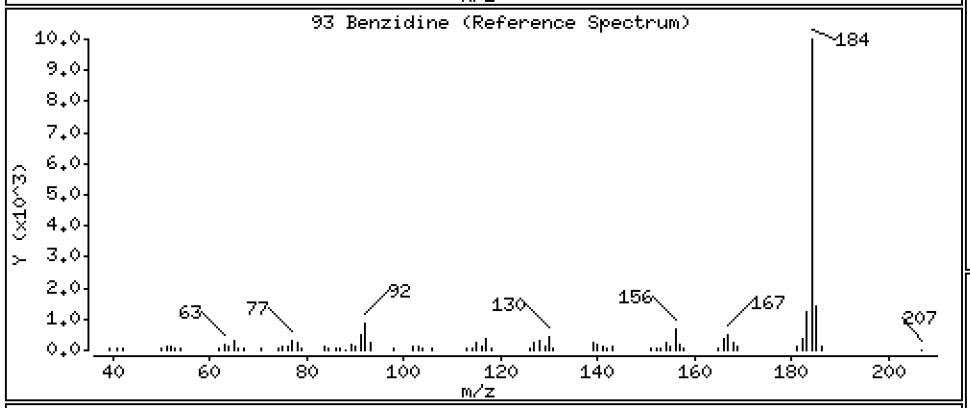
Column diameter: 0.25

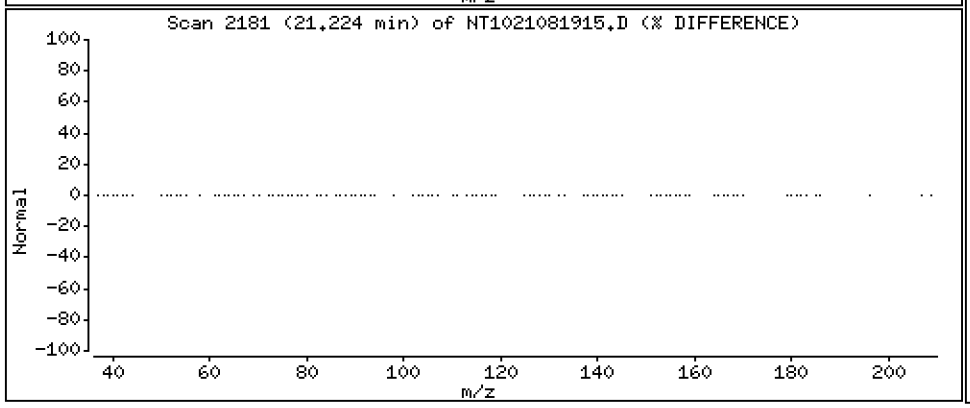
93 Benzidine

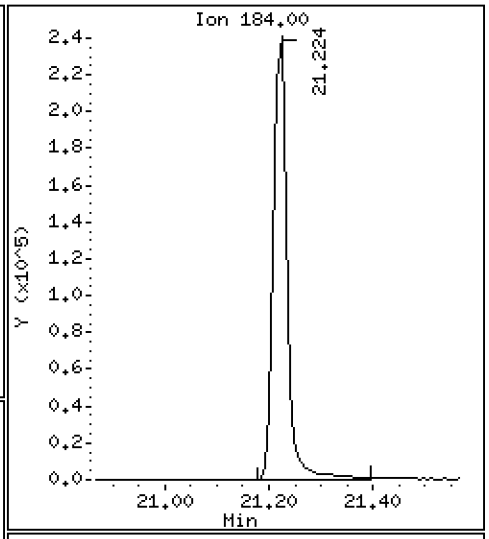
Concentration: 8.480 ug/mL

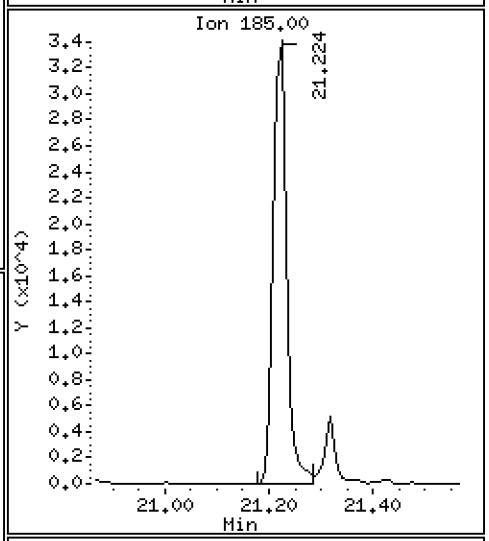


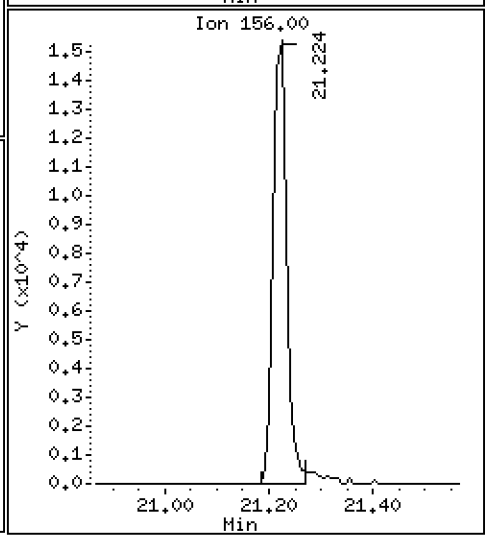












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

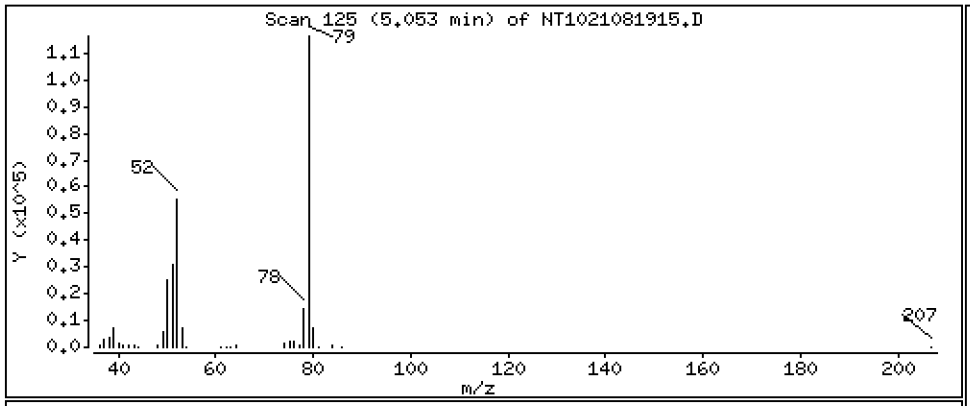
Operator: VTS

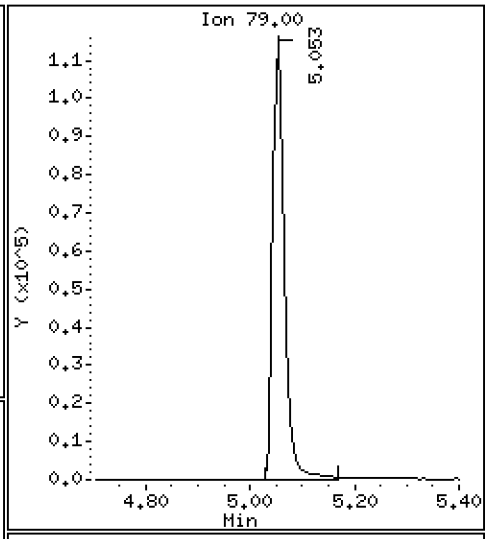
Column phase: ZB-5msi

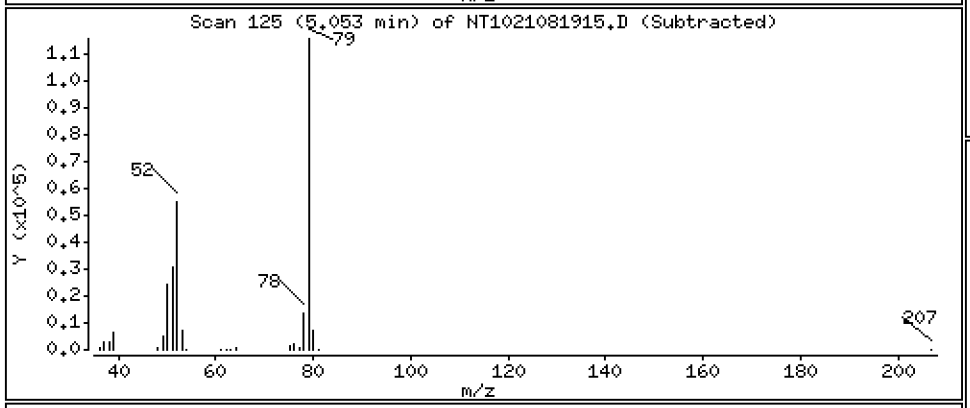
Column diameter: 0.25

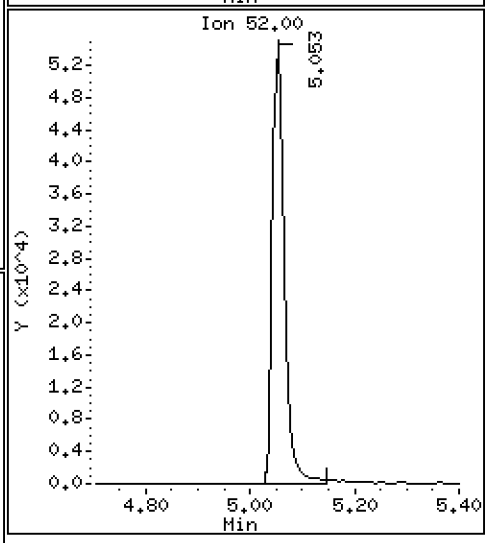
103 Pyridine

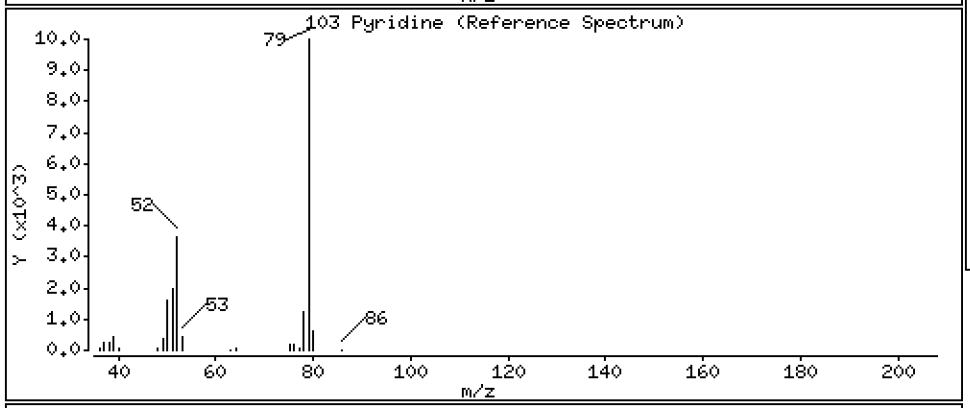
Concentration: 2.866 ug/mL

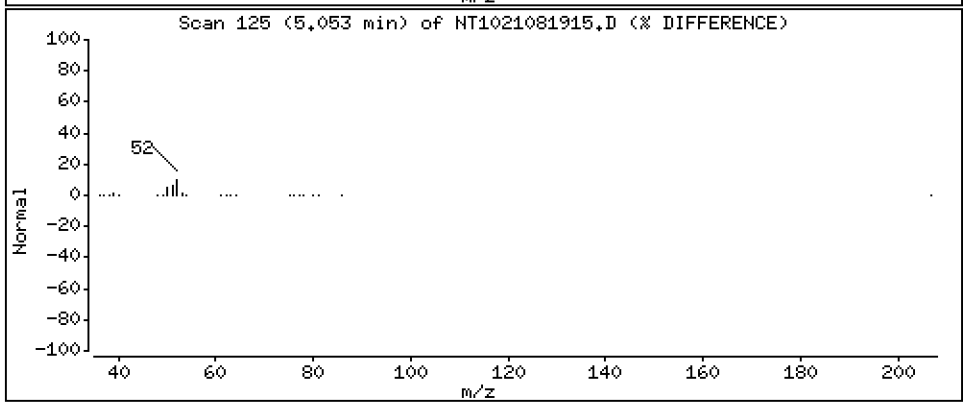












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

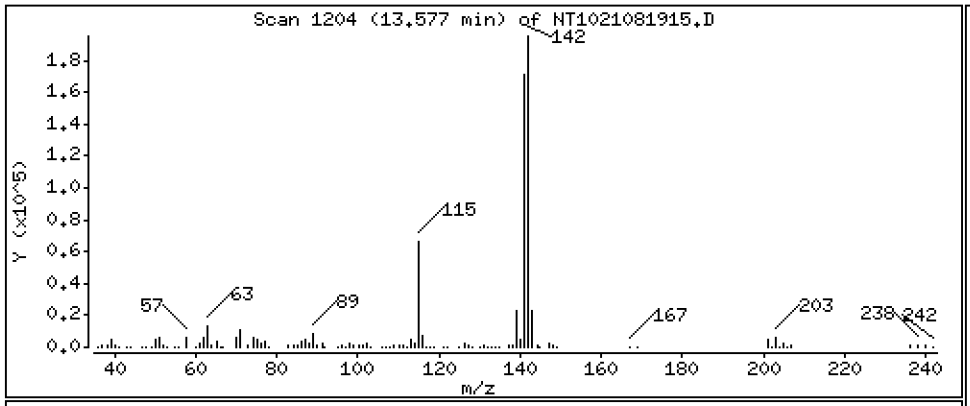
Operator: VTS

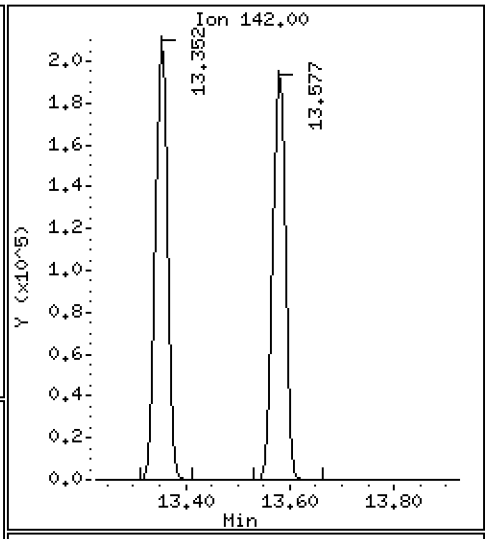
Column phase: ZB-5msi

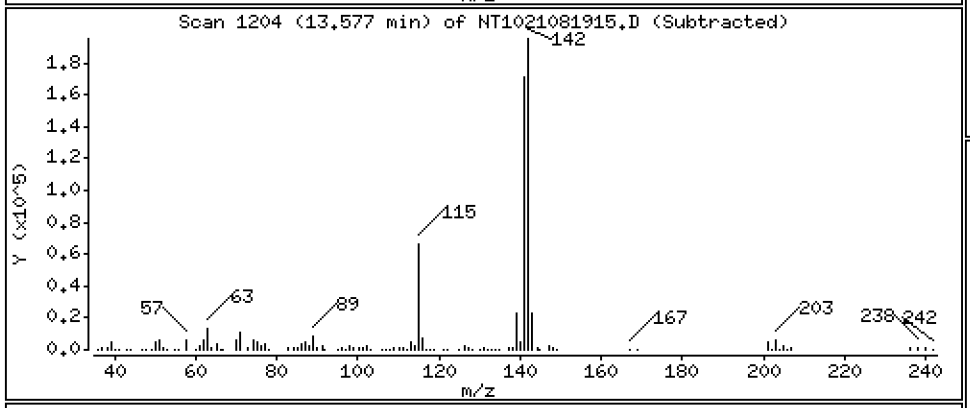
Column diameter: 0.25

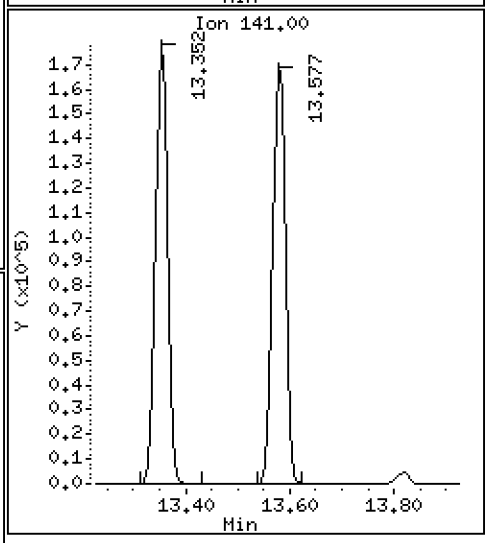
105 1-methylnaphthalene

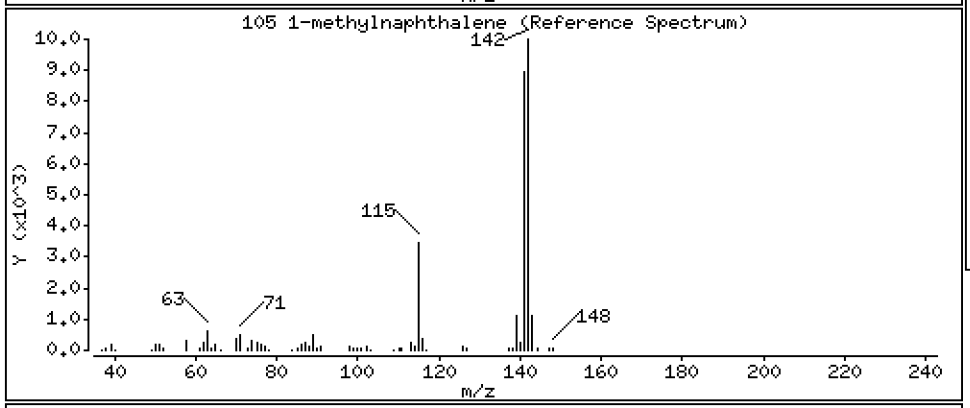
Concentration: 4.815 ug/mL

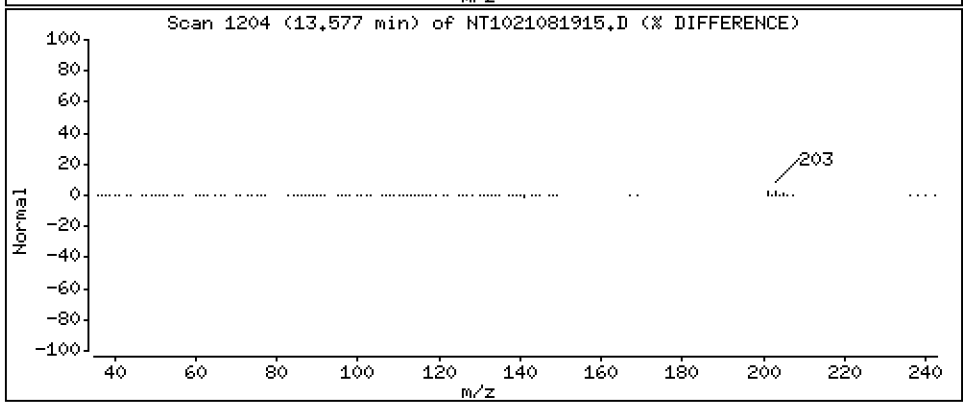












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

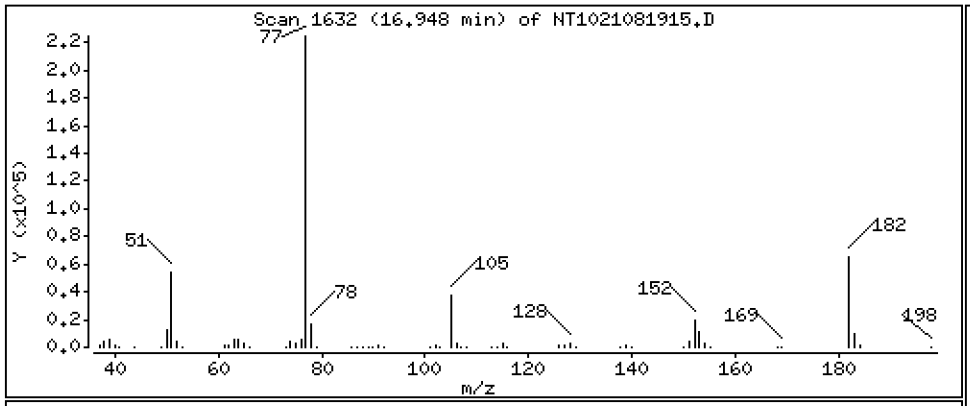
Operator: VTS

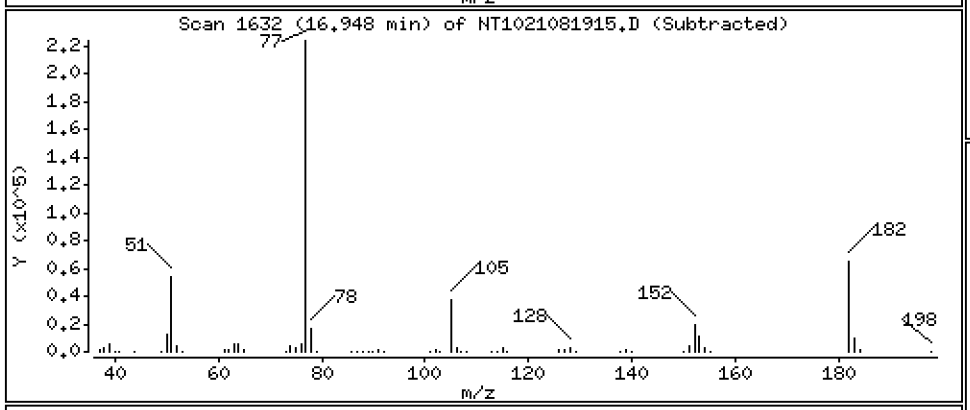
Column phase: ZB-5msi

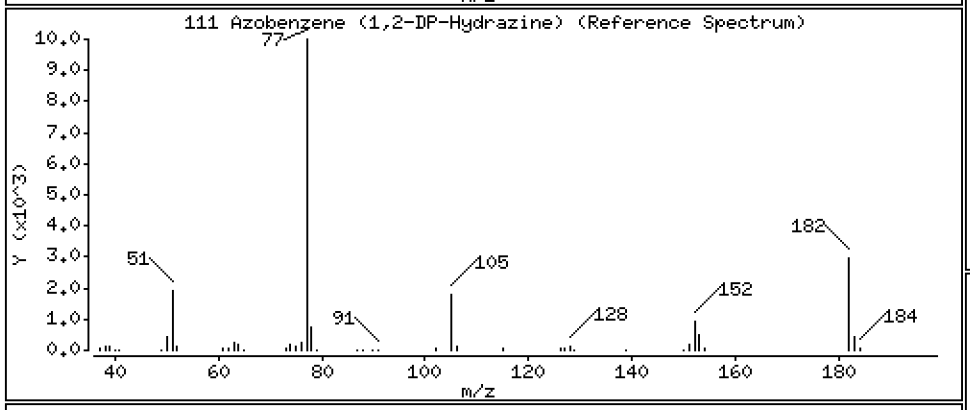
Column diameter: 0.25

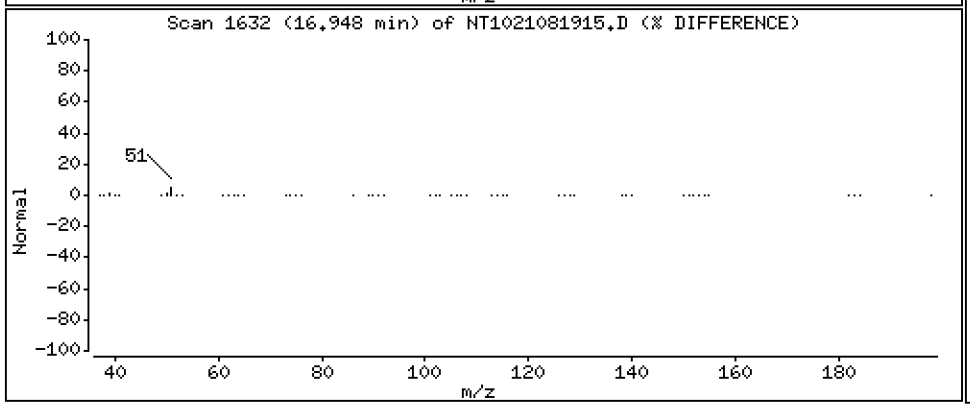
111 Azobenzene (1,2-DP-Hydrazine)

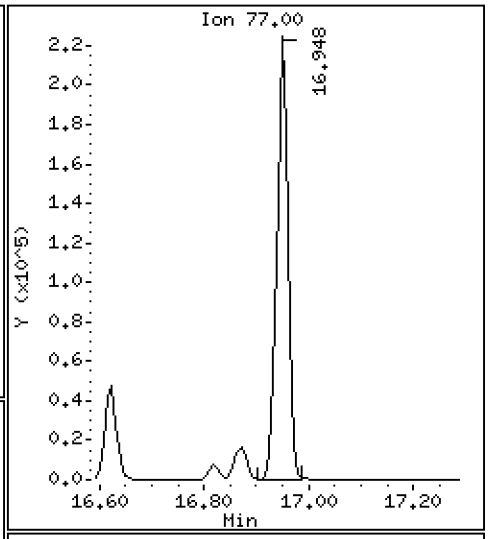
Concentration: 5.417 ug/mL

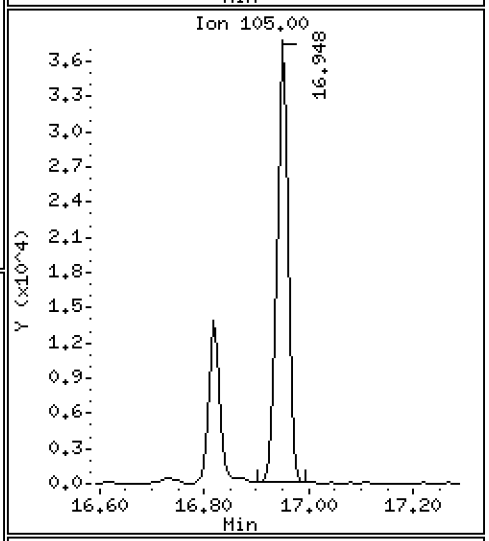


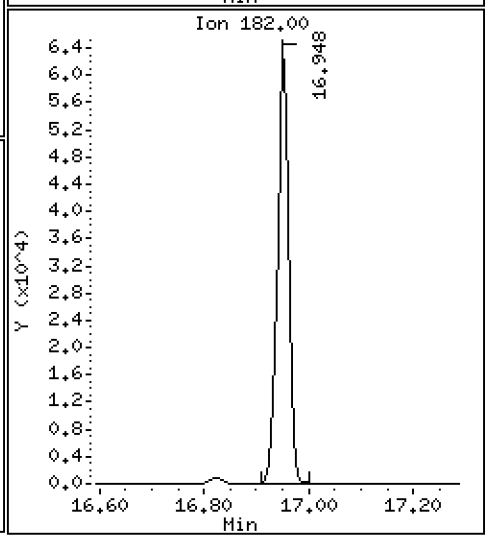












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

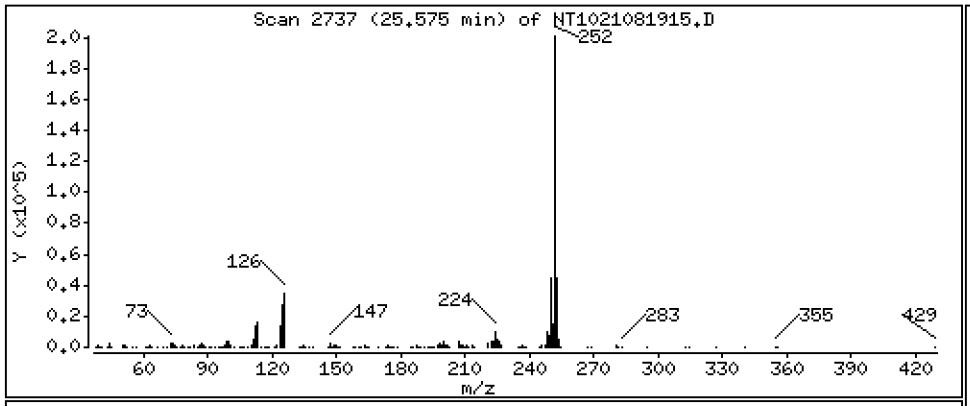
Operator: VTS

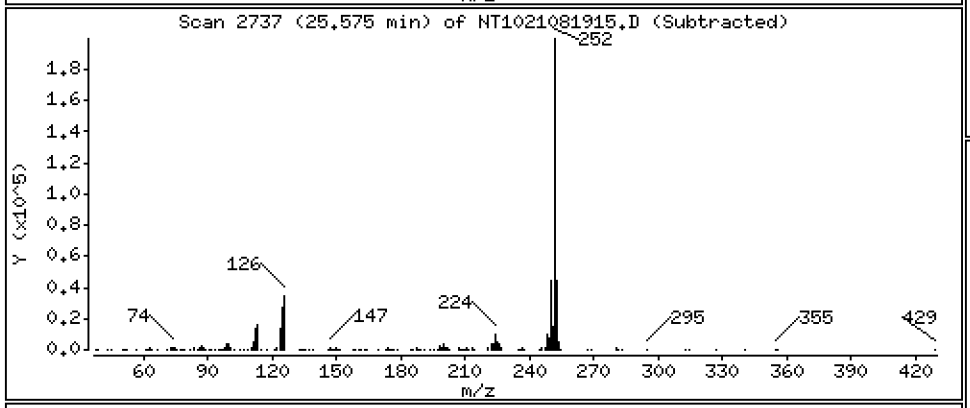
Column phase: ZB-5msi

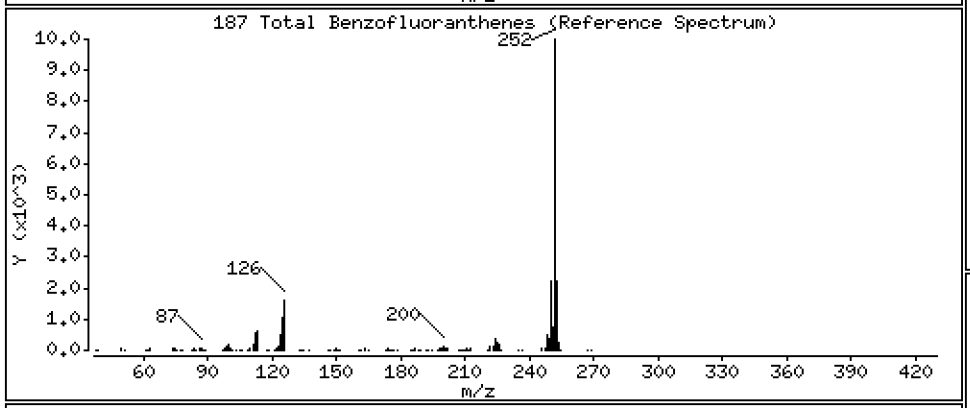
Column diameter: 0.25

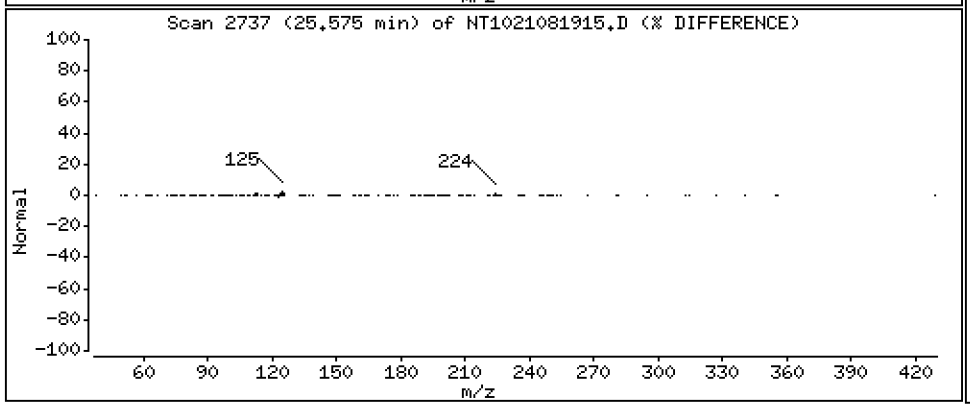
187 Total Benzofluoranthenes

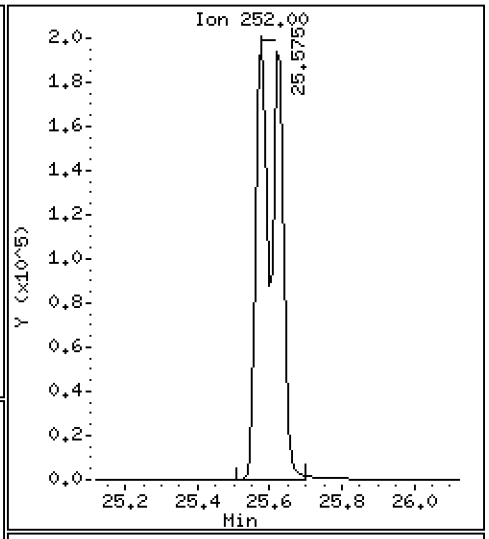
Concentration: 9.959 ug/mL

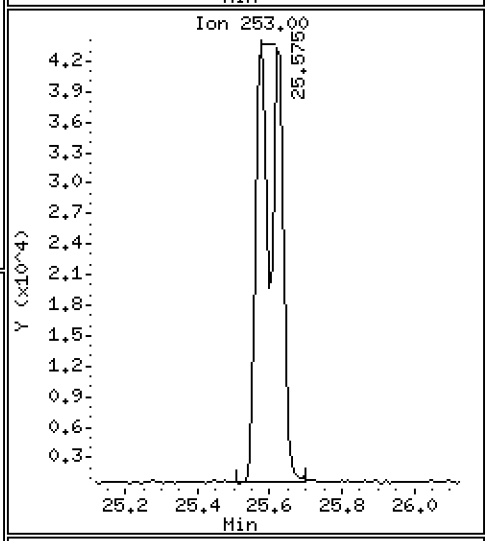


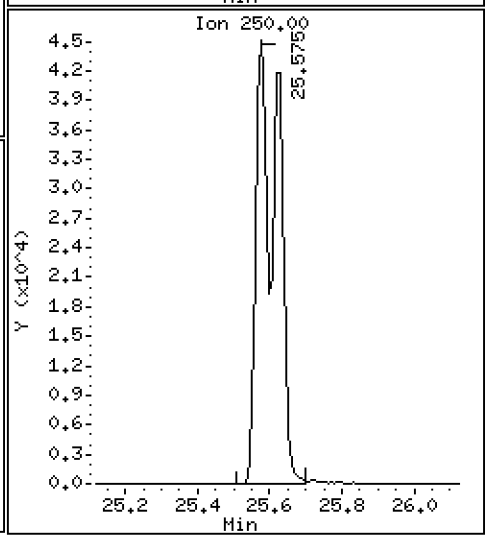












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Date : 19-AUG-2021 20:42

Client ID:

Instrument: nt10.i

Sample Info: SJH0235-SCV1

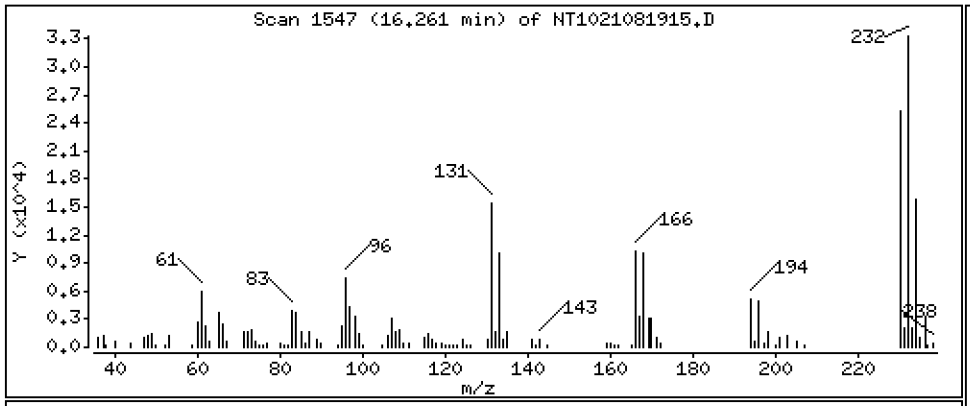
Operator: VTS

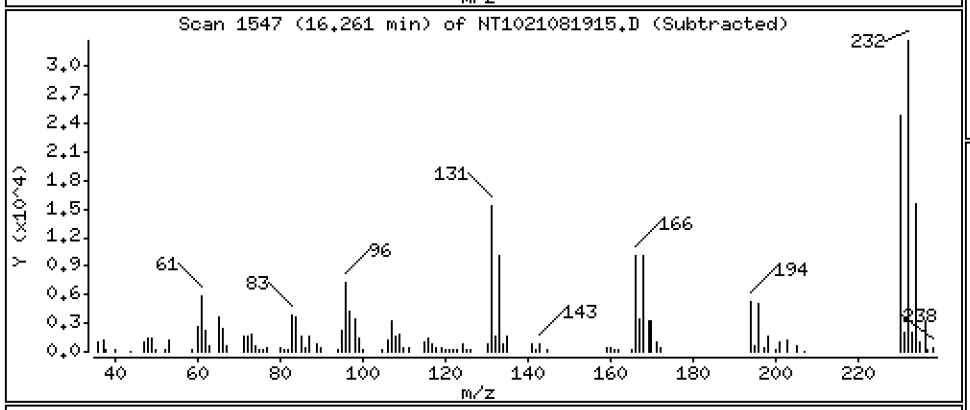
Column phase: ZB-5msi

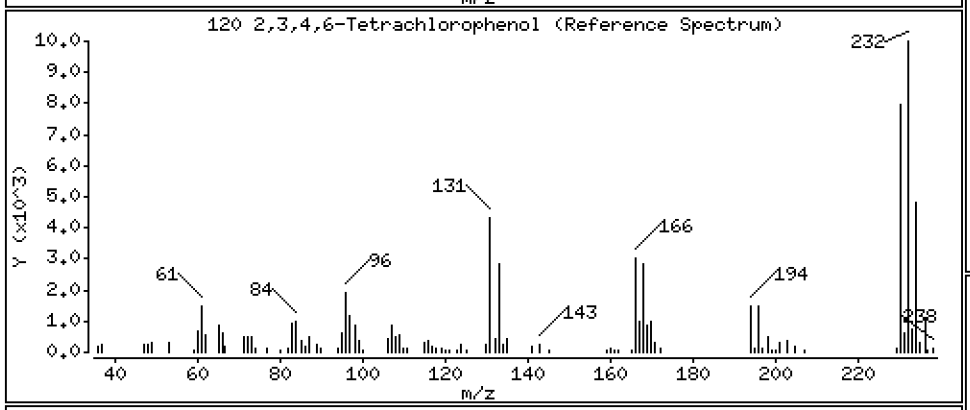
Column diameter: 0.25

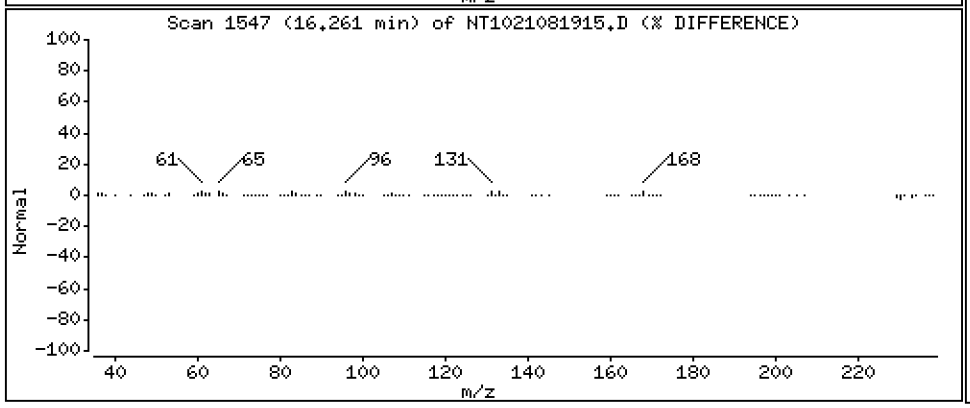
120 2,3,4,6-Tetrachlorophenol

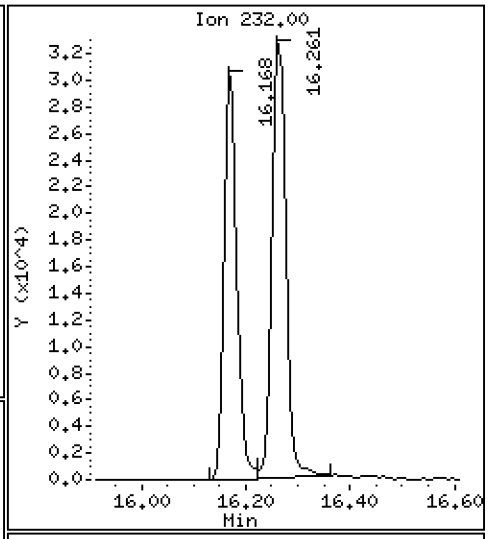
Concentration: 4.467 ug/mL

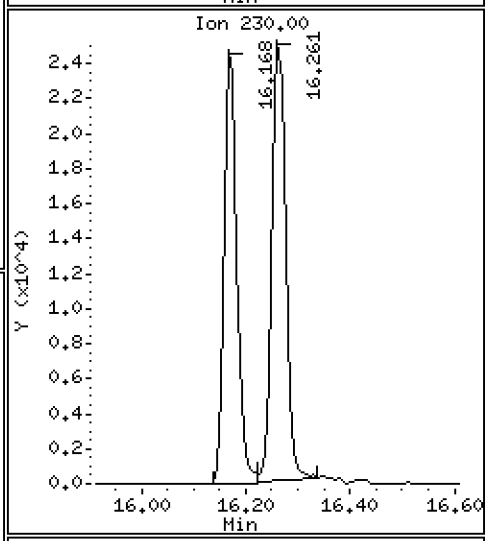


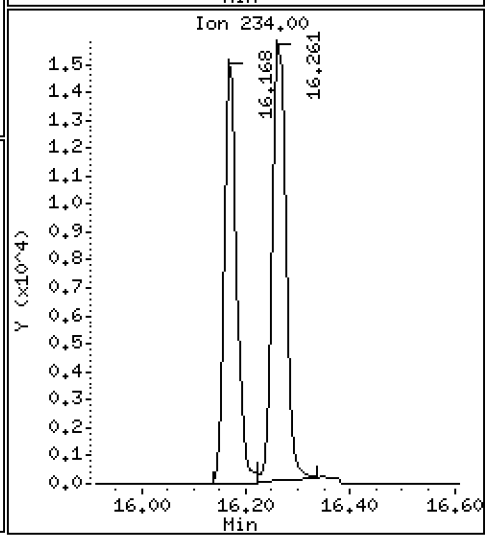












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Inj Date : 19-AUG-2021 20:42
Operator : VTS Inst ID: nt10.i
Smp Info : SJH0235-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210819.b\ABN.m
Meth Date : 20-Aug-2021 10:14 van Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-202011

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.784	8.784	(0.931)	199380	5.25899	5.259
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.961	8.961	(0.950)	160344	5.78066	5.781
6	2-Chlorophenol	128	9.093	9.093	(0.964)	158353	5.03366	5.034
7	1,3-Dichlorobenzene	146	9.371	9.364	(0.993)	169628	5.18579	5.186
* 8	1,4-Dichlorobenzene-d4	152	9.433	9.426	(1.000)	86567	4.00000	
9	1,4-Dichlorobenzene	146	9.464	9.457	(1.003)	145074	5.85827	5.858
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.821	9.814	(1.041)	146550	5.20005	5.200
11	Benzyl alcohol	108	9.689	9.689	(1.027)	86052	4.93439	4.934
14	2,2'-oxybis(1-Chloropropane)	121	9.992	9.984	(1.059)	47815	5.72048	5.720
13	2-Methylphenol	108	9.907	9.907	(1.050)	111834	4.65720	4.657
17	Hexachloroethane	117	10.411	10.411	(1.104)	60775	5.67447	5.674
16	N-Nitroso-di-n-propylamine	70	10.248	10.241	(1.086)	89139	5.29189	5.292
15	4-Methylphenol	108	10.178	10.171	(1.079)	120235	4.68765	4.688
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.559	10.559	(0.886)	149166	5.40261	5.403
20	Isophorone	82	11.001	11.001	(0.923)	331869	7.77753	7.778
21	2-Nitrophenol	139	11.186	11.186	(0.938)	81411	5.17753	5.178
22	2,4-Dimethylphenol	107	11.220	11.220	(0.941)	119391	4.92042	4.920
23	Bis(2-Chloroethoxy)methane	93	11.415	11.415	(0.958)	149566	5.93771	5.938
24	Benzoic acid	105	11.381	11.339	(0.955)	66350	5.37792	5.378
25	2,4-Dichlorophenol	162	11.644	11.636	(0.977)	127985	5.14677	5.147
26	1,2,4-Trichlorobenzene	180	11.828	11.828	(0.992)	120347	5.00026	5.000
* 27	Naphthalene-d8	136	11.921	11.913	(1.000)	286011	4.00000	
28	Naphthalene	128	11.959	11.959	(1.003)	361857	5.09980	5.100
29	4-Chloroaniline	127	12.083	12.075	(1.014)	157895	4.59294	4.593
30	Hexachlorobutadiene	225	12.315	12.307	(1.033)	67621	5.10670	5.107
31	4-Chloro-3-methylphenol	107	13.034	13.027	(1.093)	123056	4.92458	4.925
32	2-Methylnaphthalene	142	13.352	13.352	(1.120)	319793	4.72280	4.723
33	Hexachlorocyclopentadiene	237	13.816	13.817	(0.889)	54933	4.31449	4.314

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.971	13.971	(0.899)	84924	4.77039	4.770
	35 2,4,5-Trichlorophenol	196	14.048	14.048	(0.904)	91907	4.91422	4.914
$	36 2-Fluorobiphenyl	172	Compound Not Detected.					
	37 2-Chloronaphthalene	162	14.350	14.350	(0.923)	311867	5.58535	5.585
	38 2-Nitroaniline	65	14.605	14.598	(0.940)	82438	4.97238	4.972
	39 Dimethylphthalate	163	15.023	15.016	(0.967)	286677	4.97899	4.979
	40 Acenaphthylene	152	15.225	15.225	(0.980)	417239	4.79575	4.796
	41 2,6-Dinitrotoluene	165	15.170	15.163	(0.976)	68264	5.36851	5.369
*	42 Acenaphthene-d10	164	15.542	15.534	(1.000)	175555	4.00000	
	43 3-Nitroaniline	138	15.457	15.457	(0.995)	78104	4.56188	4.562
	44 Acenaphthene	153	15.604	15.596	(1.004)	228953	4.97526	4.975
	45 2,4-Dinitrophenol	184	15.673	15.674	(1.008)	11153	1.66462	1.665
	46 Dibenzofuran	168	15.928	15.928	(1.025)	383631	4.69138	4.691
	47 4-Nitrophenol	109	15.774	15.782	(1.015)	24955	4.01803	4.018
	48 2,4-Dinitrotoluene	165	15.982	15.975	(1.028)	90638	5.10639	5.106
	50 Diethylphthalate	149	16.477	16.470	(1.060)	264476	5.09602	5.096
	49 Fluorene	166	16.647	16.640	(1.071)	342768	4.72294	4.723
	51 4-Chlorophenyl-phenylether	204	16.624	16.616	(1.070)	168489	5.18664	5.187
	52 4-Nitroaniline	138	16.732	16.724	(1.077)	85236	4.78806	4.788
	53 4,6-Dinitro-2-methylphenol	198	16.817	16.817	(0.905)	50611	3.88483	3.885
	54 N-Nitrosodiphenylamine	169	16.871	16.871	(0.908)	227997	4.83479	4.835
$	55 2,4,6-Tribromophenol	330	Compound Not Detected.					
	56 4-Bromophenyl-phenylether	248	17.626	17.627	(0.948)	102044	5.39862	5.399
	57 Hexachlorobenzene	284	17.959	17.951	(0.966)	90728	5.06340	5.063
	58 Pentachlorophenol	266	18.315	18.315	(0.985)	20638	3.12000	3.120
*	59 Phenanthrene-d10	188	18.586	18.578	(1.000)	315282	4.00000	
	60 Phenanthrene	178	18.632	18.624	(1.002)	373708	4.85494	4.855
	61 Anthracene	178	18.725	18.717	(1.007)	398068	4.81320	4.813
	62 Carbazole	167	19.050	19.042	(1.025)	423459	4.97150	4.972
	63 Di-n-butylphthalate	149	19.808	19.800	(1.066)	566417	5.37515	5.375
	64 Fluoranthene	202	21.000	20.992	(0.889)	552591	4.85305	4.853
	65 Pyrene	202	21.425	21.417	(0.908)	568141	4.86161	4.862
$	66 Terphenyl-d14	244	Compound Not Detected.					
	67 Butylbenzylphthalate	149	22.594	22.594	(0.957)	224852	4.88885	4.889
	68 Benzo(a)anthracene	228	23.577	23.570	(0.999)	436185	4.79967	4.800
*	69 Chrysene-d12	240	23.608	23.601	(1.000)	260128	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.523	23.523	(0.996)	319253	8.82970	8.830
	71 Chrysene	228	23.647	23.647	(1.002)	337651	4.68662	4.687
	72 bis(2-Ethylhexyl)phthalate	149	23.616	23.608	(0.959)	258287	5.36165	5.362
*	134 Di-n-octylphthalate-d4	153	24.638	24.630	(1.000)	500551	4.00000	
	73 Di-n-octylphthalate	149	24.646	24.646	(1.000)	576721	5.22766	5.228
	74 Benzo(b)fluoranthene	252	25.575	25.575	(0.968)	423157	4.87661	4.877
	75 Benzo(k)fluoranthene	252	25.621	25.621	(0.970)	441864	5.19450	5.195
	76 Benzo(a)pyrene	252	26.295	26.295	(0.995)	381697	4.97952	4.980
*	77 Perylene-d12	264	26.427	26.419	(1.000)	235857	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.378	29.371	(1.112)	384449	4.85499	4.855
	79 Dibenzo(a,h)anthracene	278	29.394	29.386	(1.112)	293070	4.83753	4.838
	80 Benzo(g,h,i)perylene	276	30.264	30.256	(1.145)	340450	4.92315	4.923
	90 N-Nitrosodimethylamine	74	5.021	5.021	(0.532)	112508	6.03654	6.037
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	21.224	21.216	(0.899)	417920	8.48003	8.480
	103 Pyridine	79	5.052	5.052	(0.536)	168778	2.86646	2.866
	105 1-methylnaphthalene	142	13.576	13.576	(1.139)	314464	4.81470	4.815
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.948	16.940	(1.090)	324373	5.41670	5.417

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.575	25.621	(0.968)	824481	9.95946	9.959
120 2,3,4,6-Tetrachlorophenol	232	16.261	16.261	(1.046)	57716	4.46735	4.467

Data File: \\target\share\chem3\nt10.i\20210819.b\NT1021081915.D Page 1
Report Date: 20-Aug-2021 12:55

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021081915.D
Lab Smp Id: SJH0235-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210819.b\ABN.m
Misc Info:

Calibration Date: 19-AUG-2021
Calibration Time: 14:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	97518	48759	195036	86567	-11.23
27 Naphthalene-d8	336155	168078	672310	286011	-14.92
42 Acenaphthene-d10	204971	102486	409942	175555	-14.35
59 Phenanthrene-d10	357720	178860	715440	315282	-11.86
69 Chrysene-d12	291052	145526	582104	260128	-10.62
134 Di-n-octylphthala	588887	294444	1177774	500551	-15.00
77 Perylene-d12	273109	136555	546218	235857	-13.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.43	8.93	9.93	9.43	0.00
27 Naphthalene-d8	11.92	11.42	12.42	11.92	0.00
42 Acenaphthene-d10	15.53	15.03	16.03	15.54	0.05
59 Phenanthrene-d10	18.59	18.09	19.09	18.59	0.00
69 Chrysene-d12	23.61	23.11	24.11	23.61	0.00
134 Di-n-octylphthala	24.64	24.14	25.14	24.64	0.00
77 Perylene-d12	26.43	25.93	26.93	26.43	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 - NT1021081915.D

Lab ID: SJH0235-SCV1
nt10.i, ABN.m, 19-AUG-2021 20:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1021081912.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091127.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/12/21
Lab Sample ID:	SJI0174-CCV1	Injection Time:	02:56
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	5.5	1.7518100	1.9311210		10.2	+/-50
bis(2-chloroethyl) ether	A	5.0000	4.9	1.2816900	1.2546760		-2.1	+/-50
2-Chlorophenol	A	5.0000	5.1	1.4536170	1.4896880		2.5	+/-50
1,3-Dichlorobenzene	A	5.0000	5.1	1.5114380	1.5459690		2.3	+/-50
1,4-Dichlorobenzene	A	5.0000	5.2	1.1442690	1.1948130		4.4	+/-50
1,2-Dichlorobenzene	A	5.0000	5.1	1.3022240	1.3307120		2.2	+/-50
Benzyl Alcohol	A	5.0000	5.4	0.8058147	0.8677078		7.7	+/-50
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.1	0.3862240	0.3131809		-18.9	+/-50
2-Methylphenol	A	5.0000	5.1	1.1095740	1.1291320		1.8	+/-50
Hexachloroethane	A	5.0000	5.2	0.4948888	0.5104728		3.1	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	5.3	0.7783317	0.8279978		6.4	+/-50
4-Methylphenol	A	5.0000	5.1	1.1851760	1.2149100		2.5	+/-50
Nitrobenzene	A	5.0000	6.4	0.3861385	0.4933834		27.8	+/-50
Isophorone	A	5.0000	6.3	0.5967638	0.7473066		25.2	+/-50
2-Nitrophenol	A	5.0000	6.3	0.2199064	0.2774567		26.2	+/-50
2,4-Dimethylphenol	A	10.000	10.2	0.3393492	0.3463592		2.1	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	5.0	0.3522827	0.3515434		-0.2	+/-50
2,4-Dichlorophenol	A	10.000	11.2	0.3477772	0.3886176		11.7	+/-50
1,2,4-Trichlorobenzene	A	5.0000	5.0	0.3366044	0.3379804		0.4	+/-50
Naphthalene	A	5.0000	5.4	0.9923411	1.0758920		8.4	+/-50
Benzoic acid	A	20.000	23.7	0.1282034	0.2097686		18.4	+/-50
4-Chloroaniline	A	10.000	10.3	0.4807898	0.4940411		2.8	+/-50
Hexachlorobutadiene	A	5.0000	5.9	0.1851905	0.2201664		18.9	+/-50
4-Chloro-3-Methylphenol	A	10.000	12.5	0.3494710	0.4360554		24.8	+/-50
2-Methylnaphthalene	A	5.0000	5.8	0.9469932	1.0918640		15.3	+/-50
Hexachlorocyclopentadiene	A	10.000	4.0	0.2380948	0.1169787		-59.6	+/-50 *
2,4,6-Trichlorophenol	A	10.000	12.9	0.4056237	0.5222515		28.8	+/-50
2,4,5-Trichlorophenol	A	10.000	13.0	0.4261287	0.5541214		30.0	+/-50
2-Chloronaphthalene	A	5.0000	5.8	1.2722300	1.4644120		15.1	+/-50
2-Nitroaniline	A	10.000	14.4	0.3777549	0.5448340		44.2	+/-50
Acenaphthylene	A	5.0000	5.2	1.9823260	2.0488640		3.4	+/-50
Dimethylphthalate	A	5.0000	5.6	1.3118930	1.4823140		13.0	+/-50
2,6-Dinitrotoluene	A	10.000	11.8	0.2897240	0.3419818		18.0	+/-50
Acenaphthene	A	5.0000	5.2	1.0485220	1.0966820		4.6	+/-50

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091127.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/12/21
Lab Sample ID:	SJI0174-CCV1	Injection Time:	02:56
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
3-Nitroaniline	A	10.000	9.4	0.3901002	0.3676331		-5.8	+/-50	
2,4-Dinitrophenol	A	20.000	12.4	0.1061965	0.0967962		-37.8	+/-50	
Dibenzofuran	A	5.0000	5.7	1.8632010	2.1071630		13.1	+/-50	
4-Nitrophenol	A	10.000	15.2	0.1112987	0.2161766		51.9	+/-50	*
2,4-Dinitrotoluene	A	10.000	11.8	0.4044297	0.4760924		17.7	+/-50	
Fluorene	A	5.0000	5.3	1.6536160	1.7676010		6.9	+/-50	
4-Chlorophenylphenyl ether	A	5.0000	5.3	0.7401715	0.7897202		6.7	+/-50	
Diethyl phthalate	A	5.0000	5.6	1.1825010	1.3239880		12.0	+/-50	
4-Nitroaniline	A	10.000	10.4	0.4056112	0.4233695		4.4	+/-50	
4,6-Dinitro-2-methylphenol	A	20.000	17.6	0.1305331	0.1449907		-12.2	+/-50	
N-Nitrosodiphenylamine	A	5.0000	5.6	0.5982903	0.6732973		12.5	+/-50	
4-Bromophenyl phenyl ether	A	5.0000	6.0	0.2398092	0.2864292		19.4	+/-50	
Hexachlorobenzene	A	5.0000	5.6	0.2273318	0.2541256		11.8	+/-50	
Pentachlorophenol	A	10.000	10.4	0.0665517	0.0895877		4.3	+/-50	
Phenanthrene	A	5.0000	5.2	0.9765836	1.0173400		4.2	+/-50	
Anthracene	A	5.0000	5.0	1.0492630	1.0553270		0.6	+/-50	
Carbazole	A	5.0000	5.1	1.0806490	1.0940750		1.2	+/-50	
Di-n-Butylphthalate	A	5.0000	6.0	1.3369240	1.6015440		19.8	+/-50	
Fluoranthene	A	5.0000	7.4	1.7509030	2.5820880		47.5	+/-50	
Pyrene	A	5.0000	4.7	1.7970040	1.6765710		-6.7	+/-50	
Butylbenzylphthalate	A	5.0000	6.5	0.7072339	0.9234528		30.6	+/-50	
Benzo(a)anthracene	A	5.0000	5.2	1.3974370	1.4402750		3.1	+/-50	
3,3'-Dichlorobenzidine	A	15.000	16.4	0.5559834	0.6064129		9.1	+/-50	
Chrysene	A	5.0000	4.3	1.1078500	0.9597595		-13.4	+/-50	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.7	0.3849599	0.4413563		14.7	+/-50	
Di-n-Octylphthalate	A	5.0000	5.1	0.8815966	0.8992307		2.0	+/-50	
Benzofluoranthenes, Total	A	10.000	10.3	1.4039640	1.4502900		3.3	+/-50	
Benzo(a)pyrene	A	5.0000	4.8	1.2999960	1.2468970		-4.1	+/-50	
Indeno(1,2,3-cd)pyrene	A	5.0000	4.1	1.3429560	1.1145310		-17.0	+/-50	
Dibenzo(a,h)anthracene	A	5.0000	4.5	1.0274450	0.9183307		-10.6	+/-50	
Benzo(g,h,i)perylene	A	5.0000	3.2	1.1727930	0.7583650		-35.3	+/-50	
1-Methylnaphthalene	A	5.0000	5.3	0.9134377	0.9636467		5.5	+/-50	
2-Fluorophenol	A	7.5000	7.62	1.3373020	1.3591540		1.6	+/-50	
Phenol-d5	A	7.5000	8.58	1.9140080	2.1886390		14.3	+/-50	

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Instrument ID:	NT10	Calibration:	EH00053
Lab File ID:	NT1021091127.D	Calibration Date:	08/19/2021
Sequence:	SJI0174	Injection Date:	09/12/21
Lab Sample ID:	SJI0174-CCV1	Injection Time:	02:56
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	7.5000	7.62	1.3634350	1.3853260		1.6	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.96	0.9261509	0.9187333		-0.8	+/-50
Nitrobenzene-d5	A	5.0000	6.17	0.4188149	0.5165653		23.3	+/-50
2-Fluorobiphenyl	A	5.0000	5.77	1.5981010	1.8441200		15.4	+/-50
2,4,6-Tribromophenol	A	7.5000	8.02	0.1388940	0.1644748		6.9	+/-50
p-Terphenyl-d14	A	5.0000	5.68	1.1291920	1.2818630		13.5	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

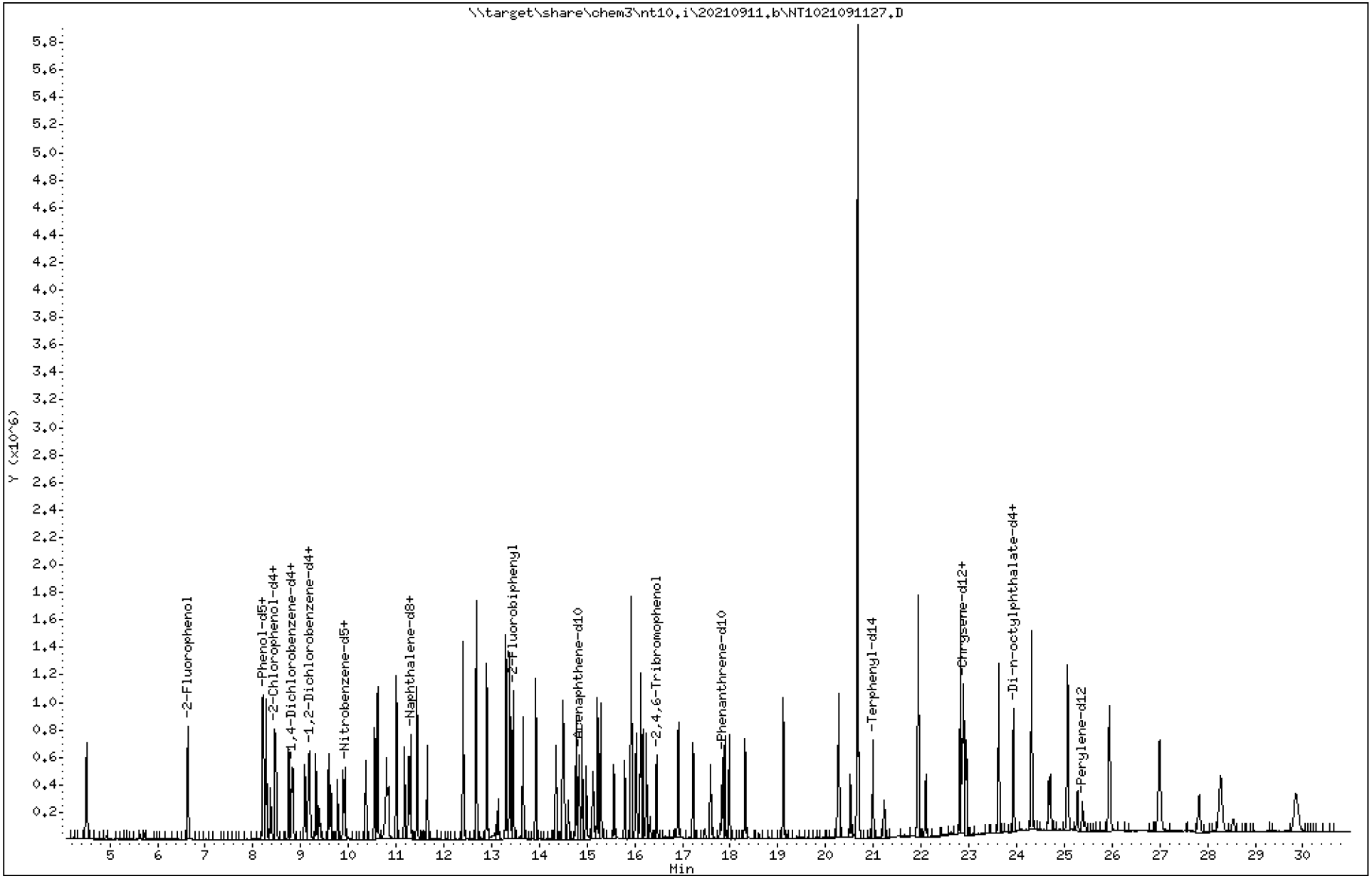
Instrument: nt10.i

Sample Info: SJI0174-CCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

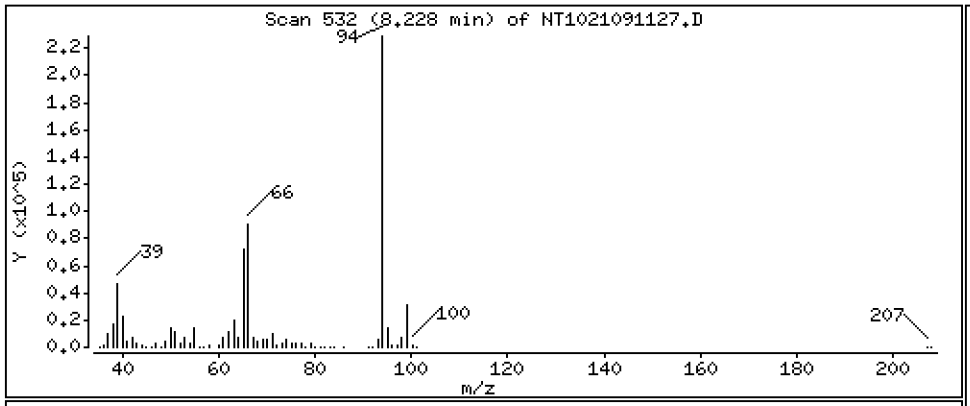
Operator: VTS

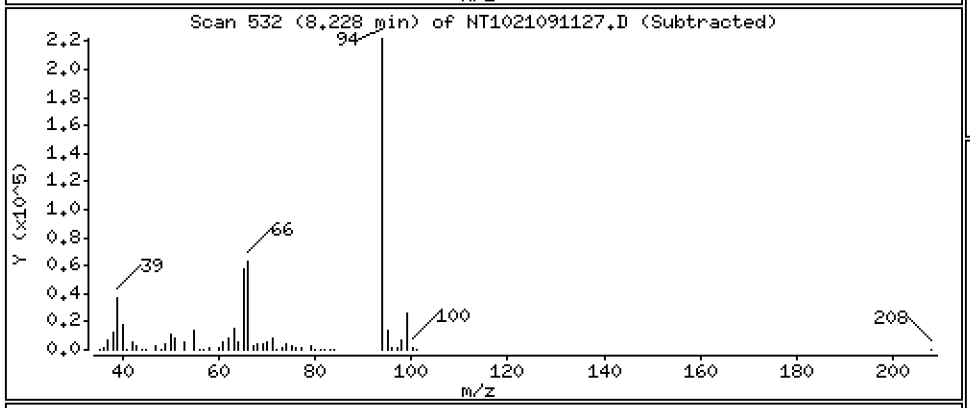
Column phase: ZB-5msi

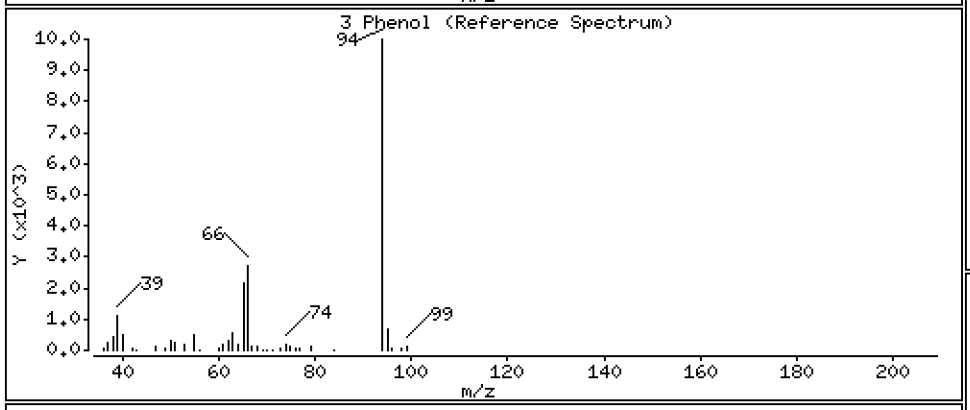
Column diameter: 0.25

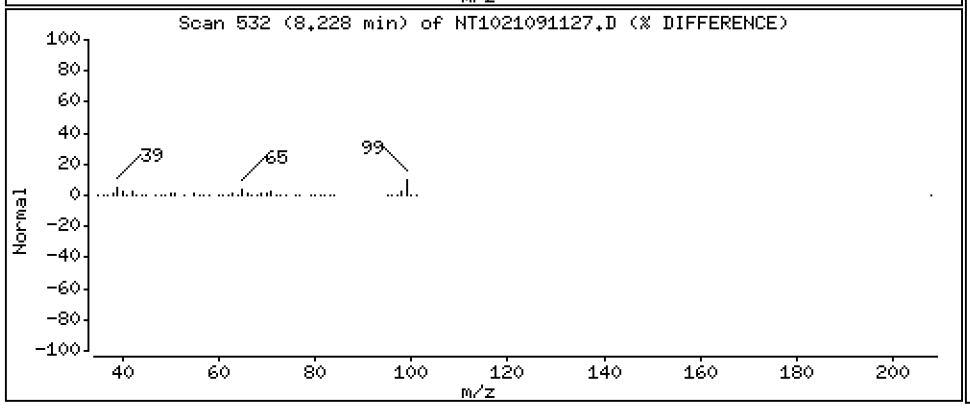
3 Phenol

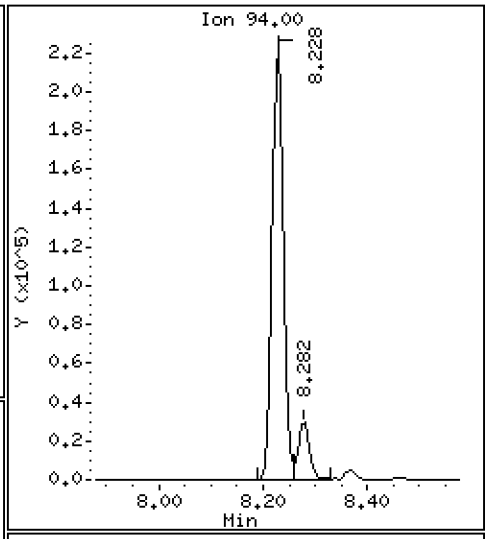
Concentration: 5.512 ug/mL

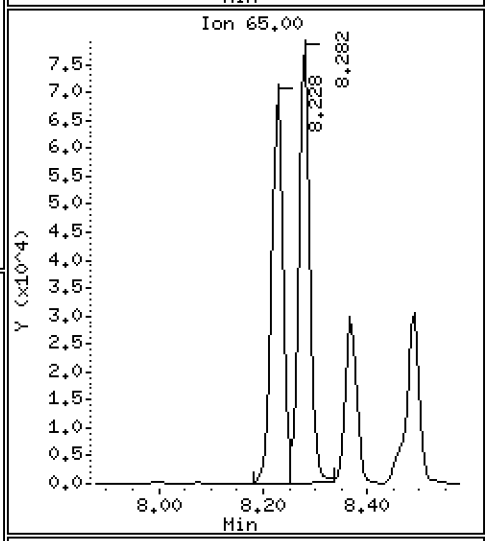


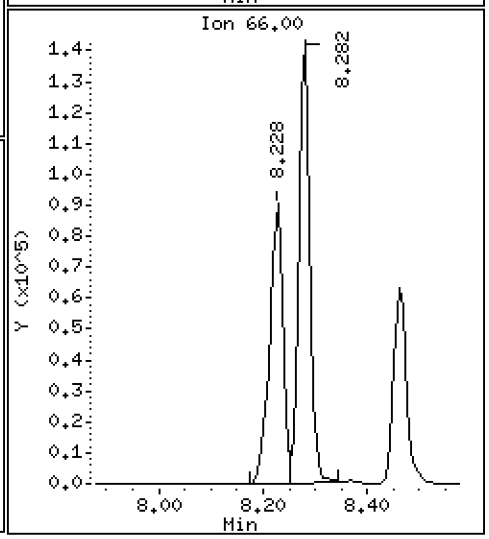












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

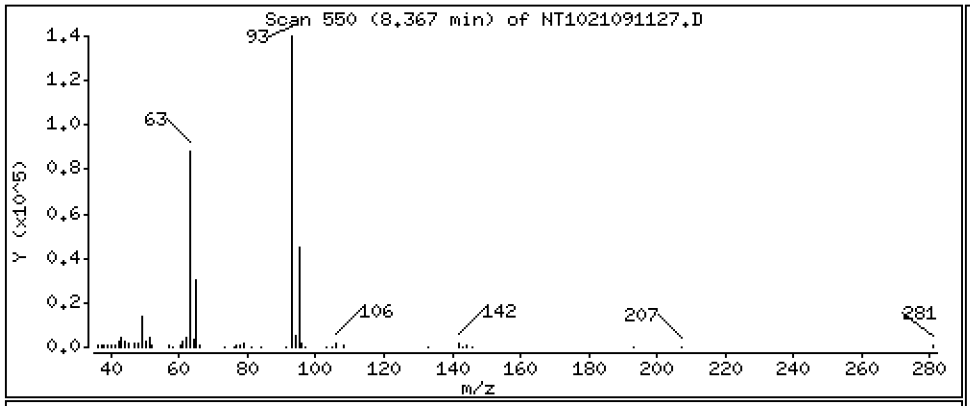
Operator: VTS

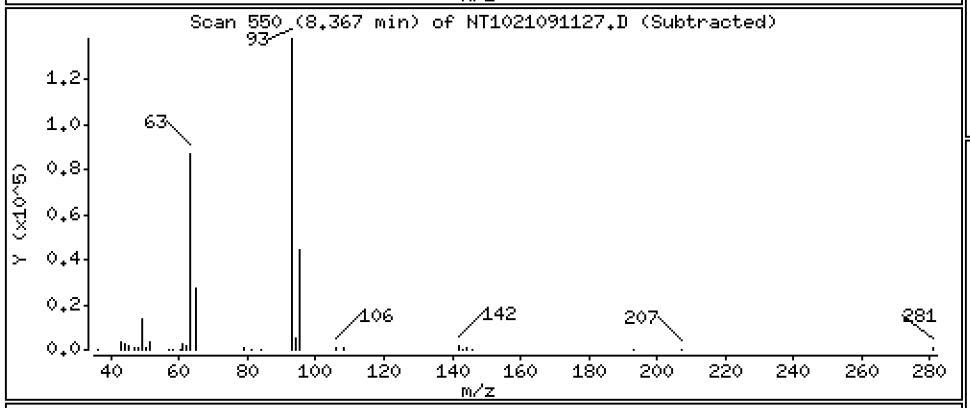
Column phase: ZB-5msi

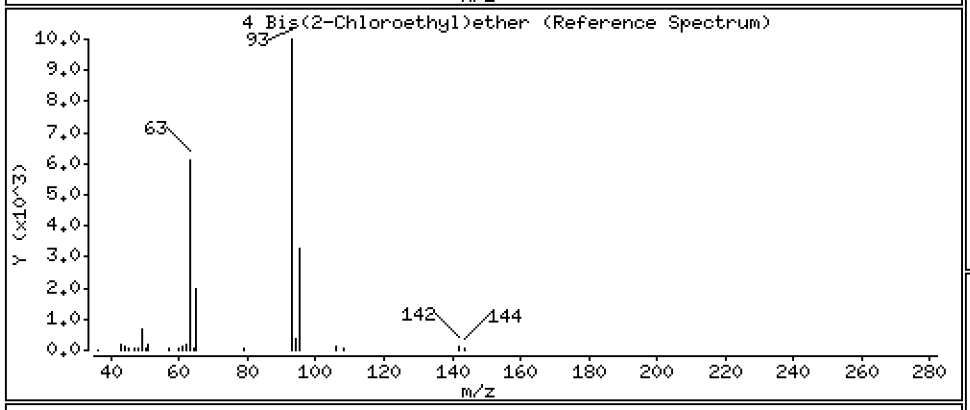
Column diameter: 0.25

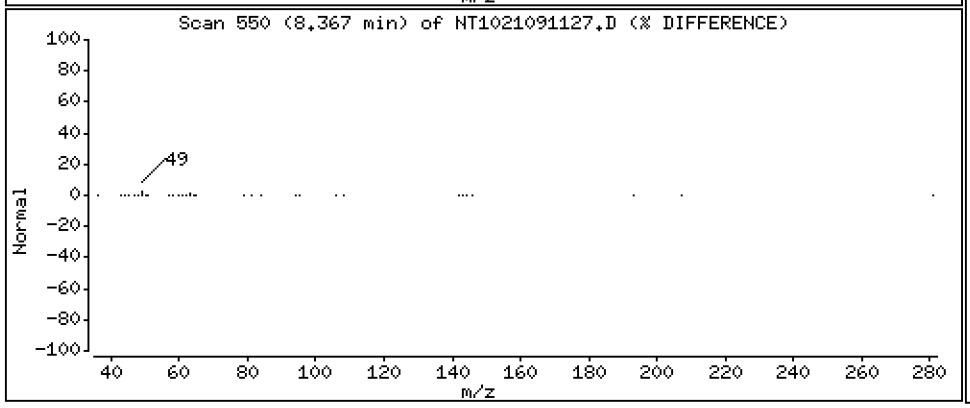
4 Bis(2-Chloroethyl)ether

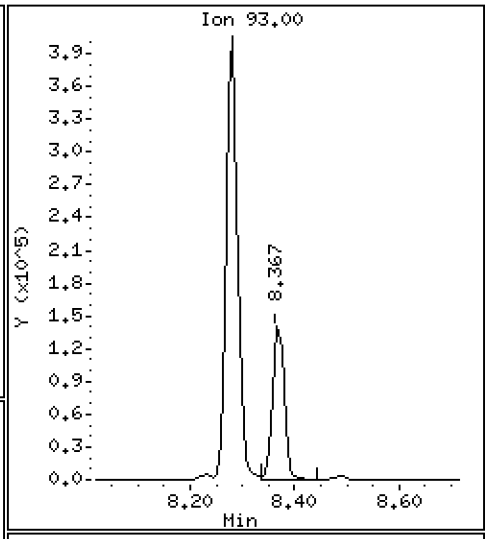
Concentration: 4.895 ug/mL

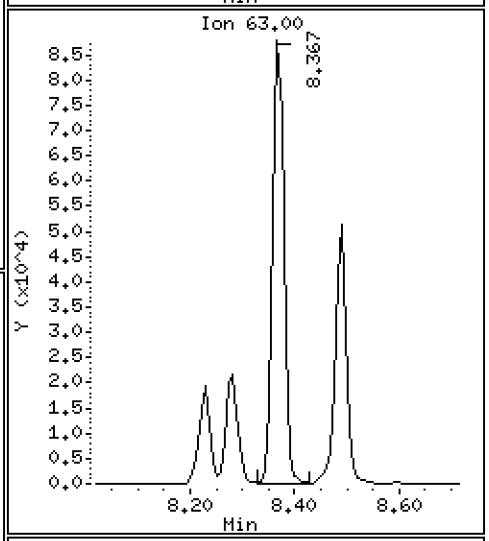


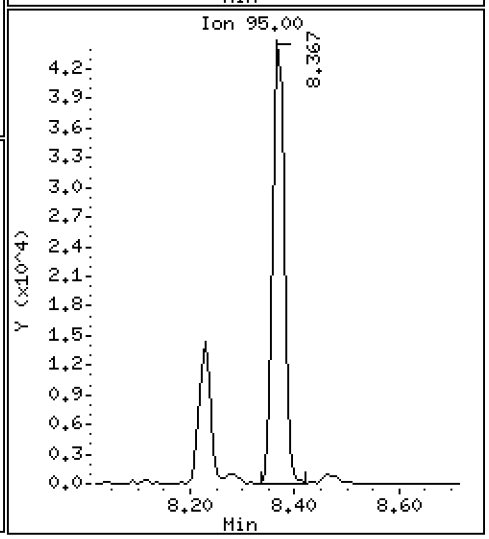












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

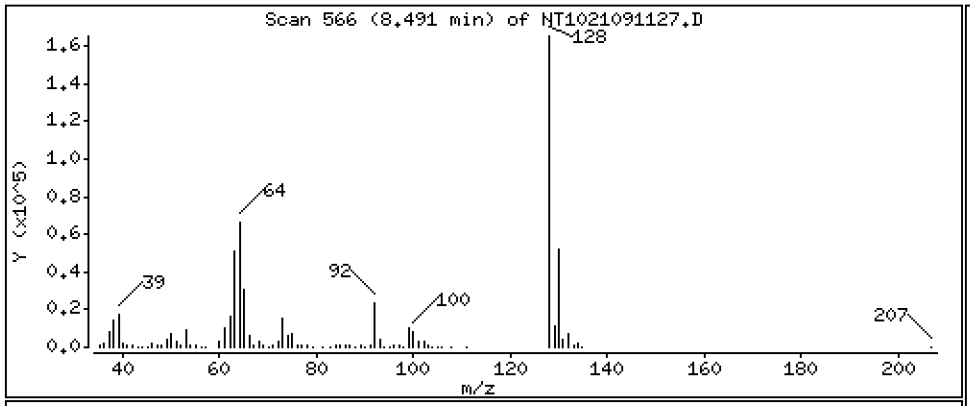
Operator: VTS

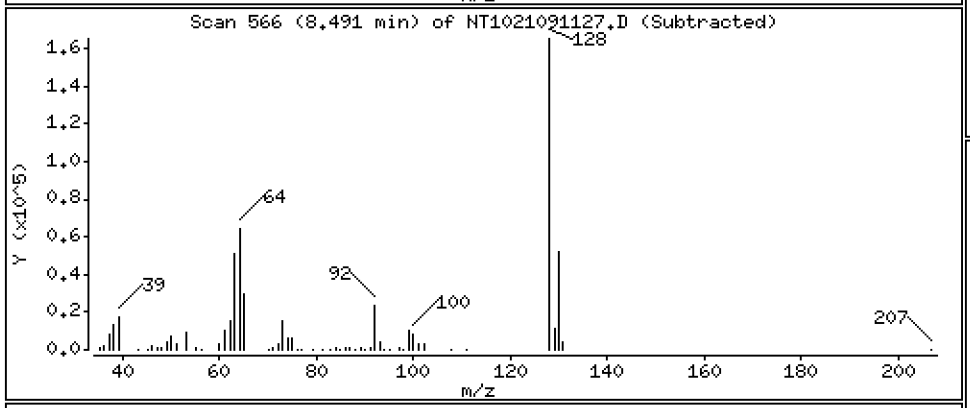
Column phase: ZB-5msi

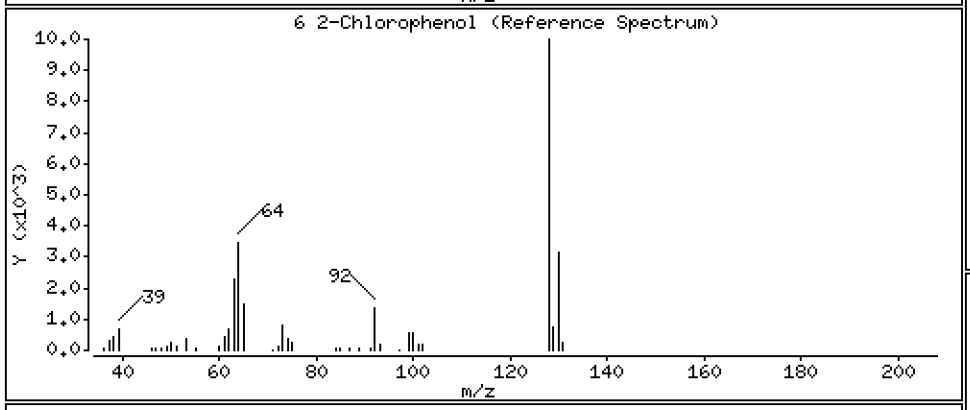
Column diameter: 0.25

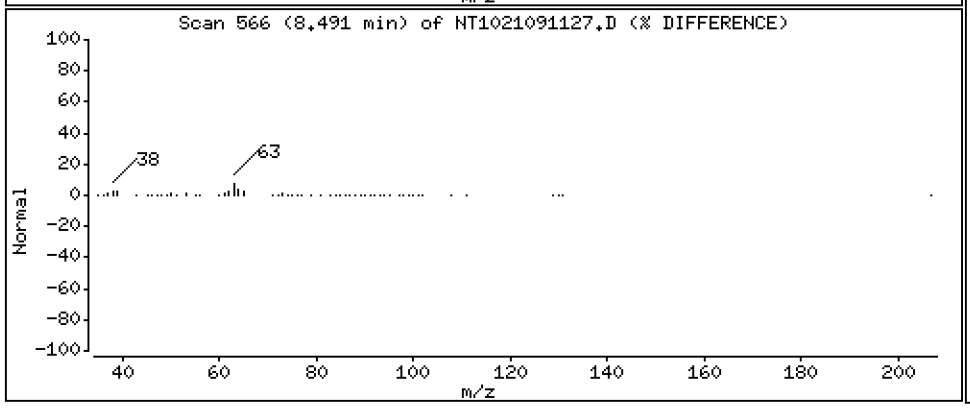
6 2-Chlorophenol

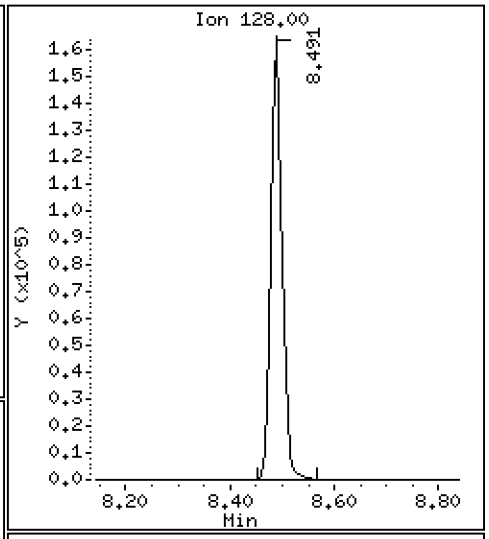
Concentration: 5.124 ug/mL

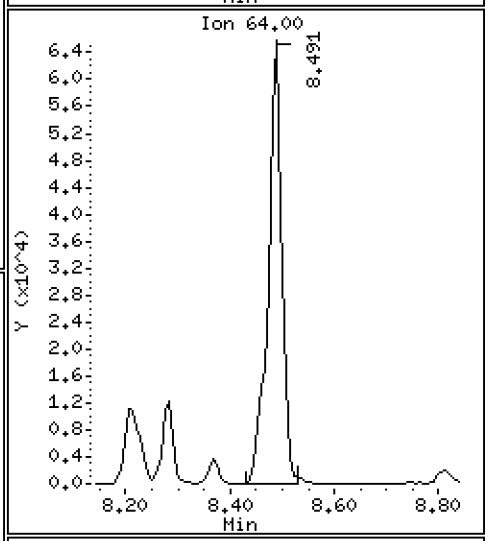


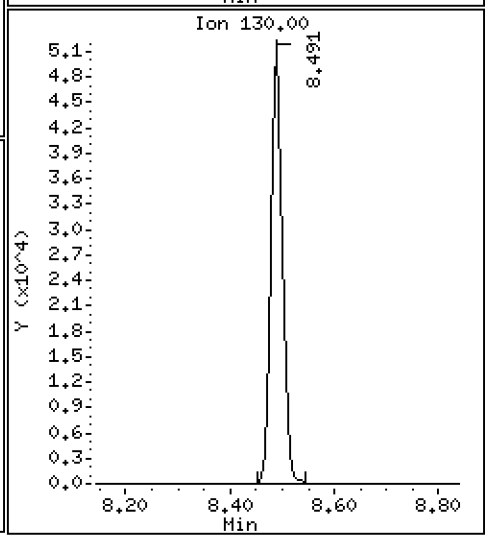












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

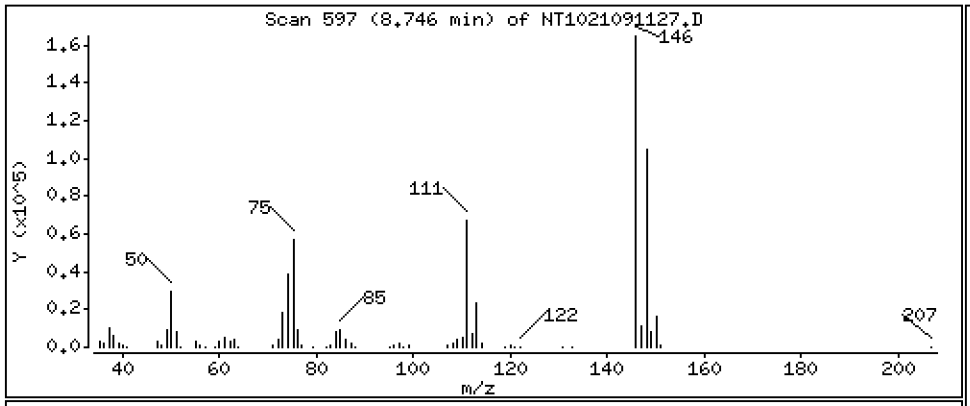
Operator: VTS

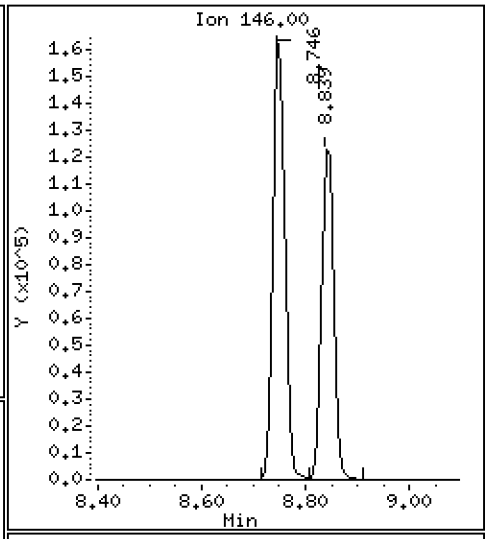
Column phase: ZB-5msi

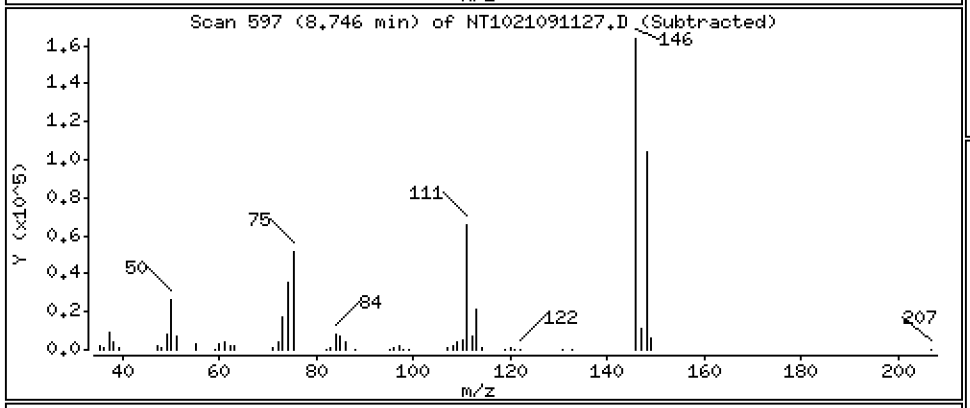
Column diameter: 0.25

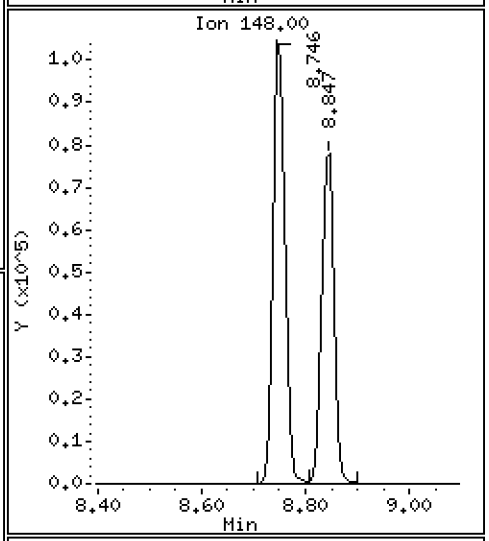
7 1,3-Dichlorobenzene

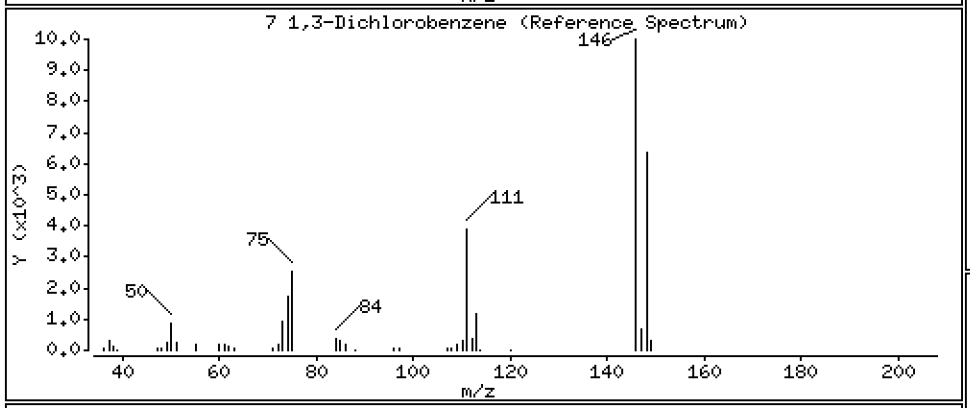
Concentration: 5.114 ug/mL

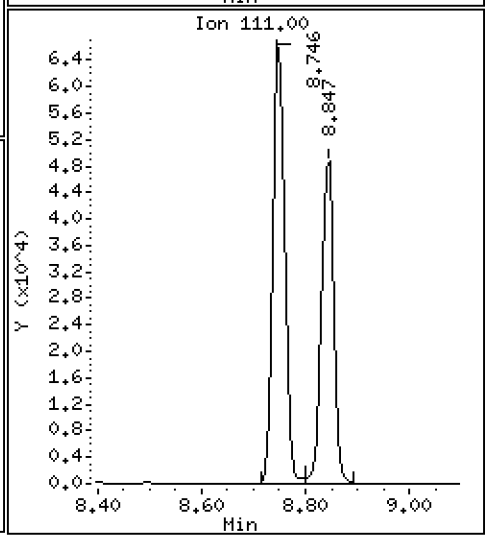


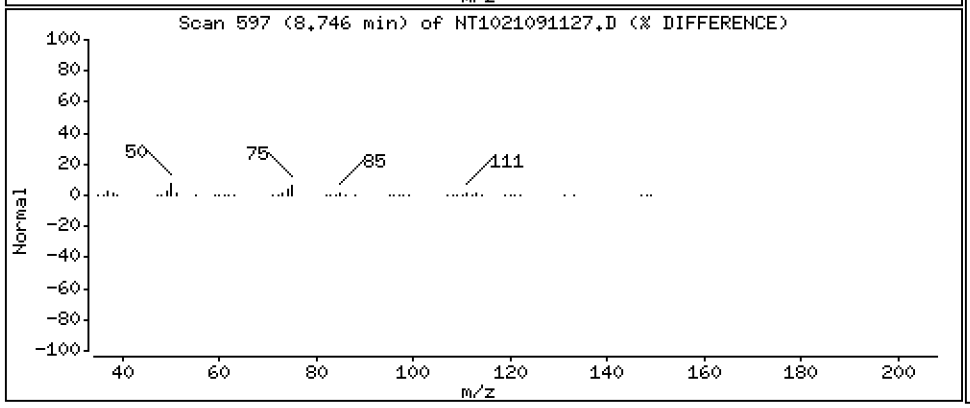












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

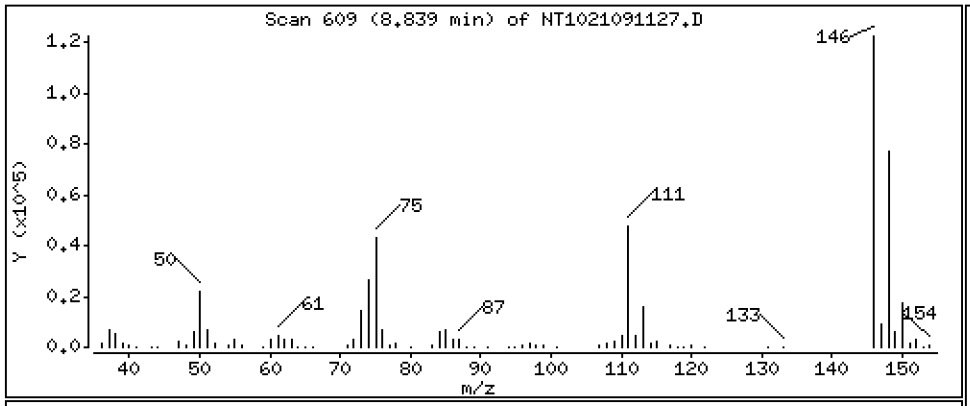
Operator: VTS

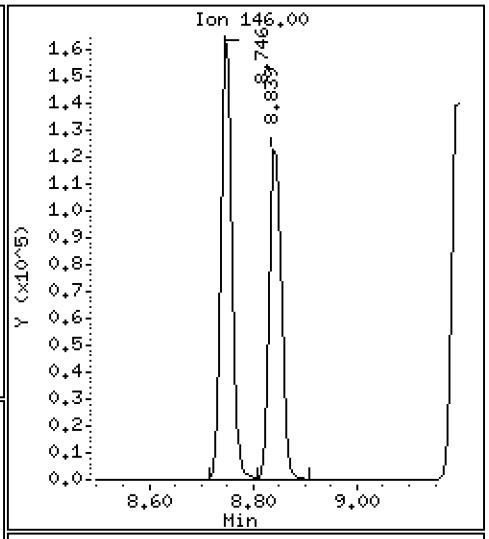
Column phase: ZB-5msi

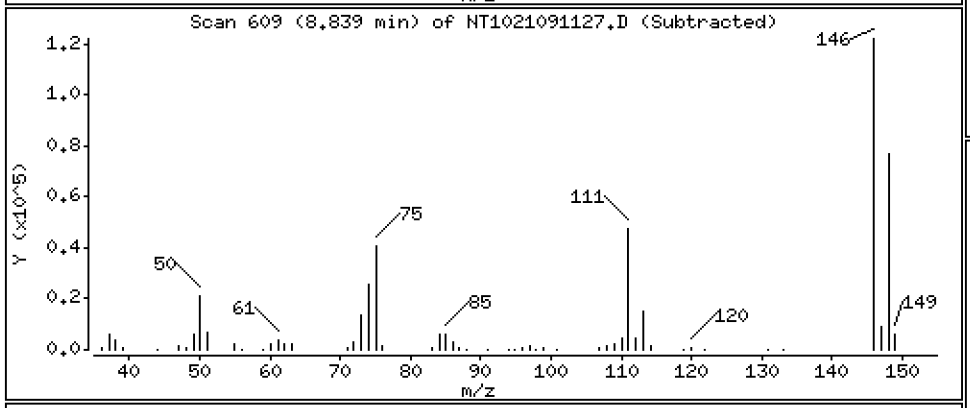
Column diameter: 0.25

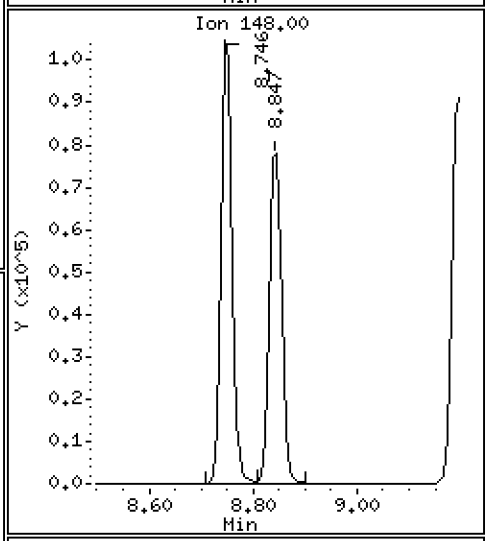
9 1,4-Dichlorobenzene

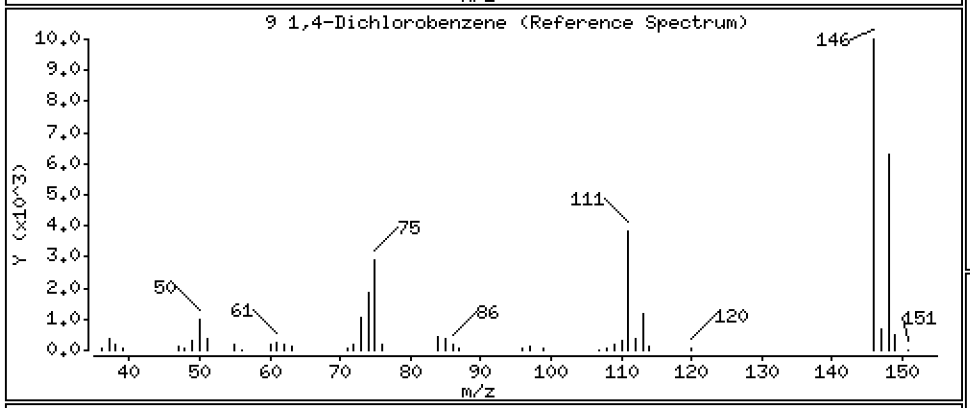
Concentration: 5.221 ug/mL

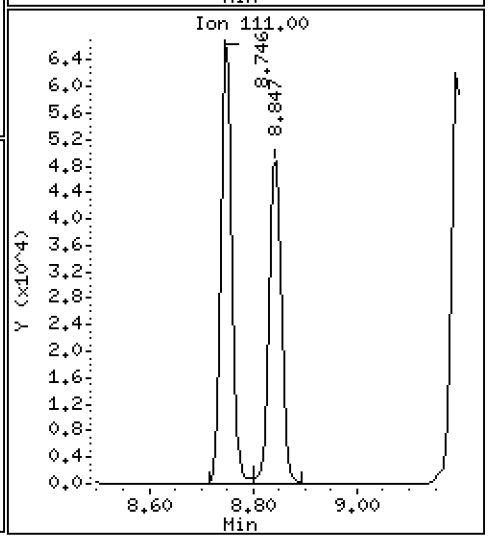


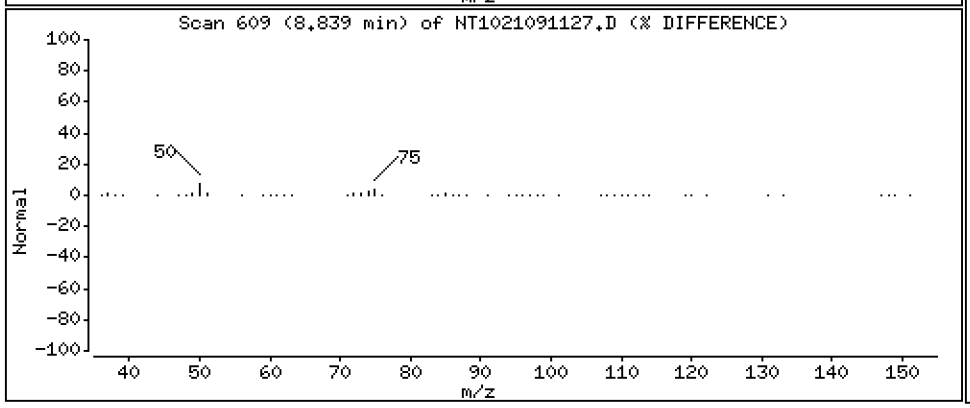












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

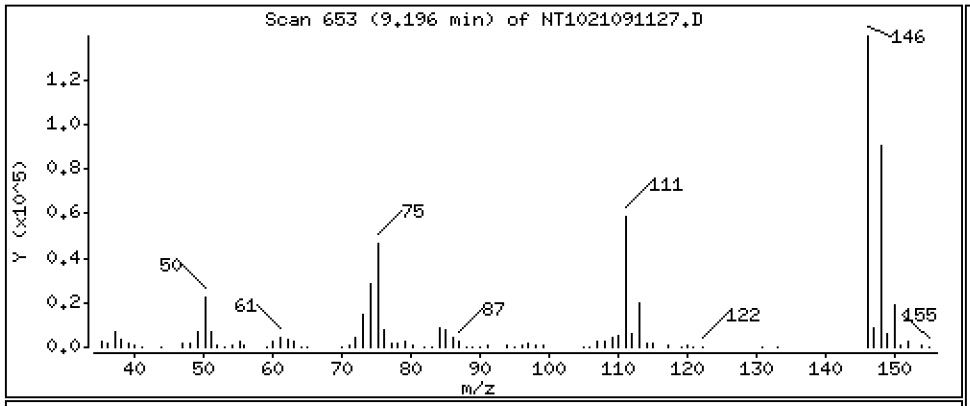
Operator: VTS

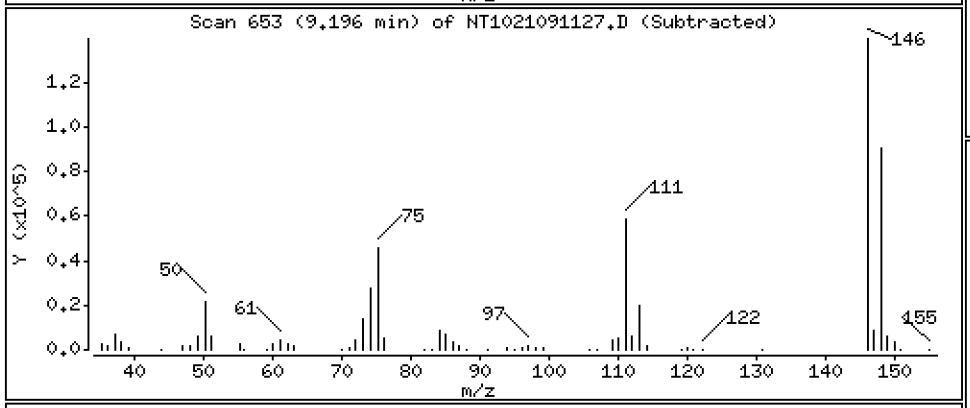
Column phase: ZB-5msi

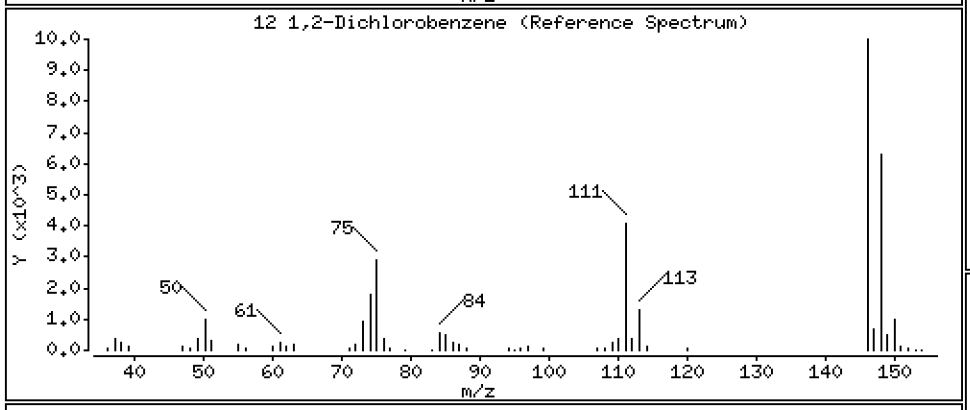
Column diameter: 0.25

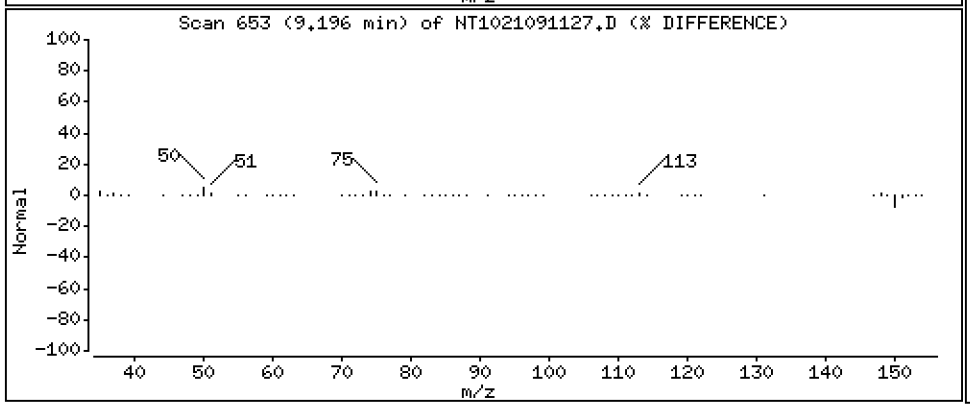
12 1,2-Dichlorobenzene

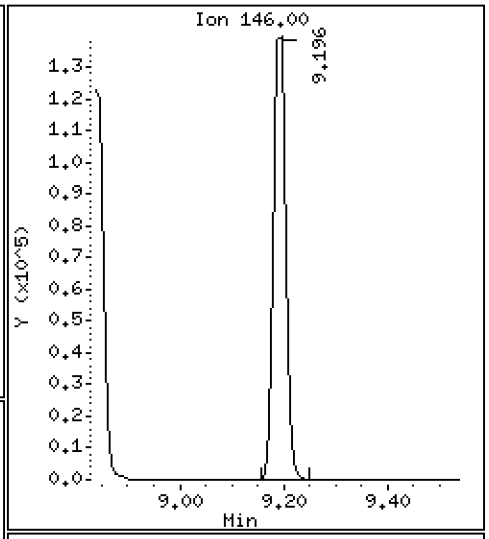
Concentration: 5.109 ug/mL

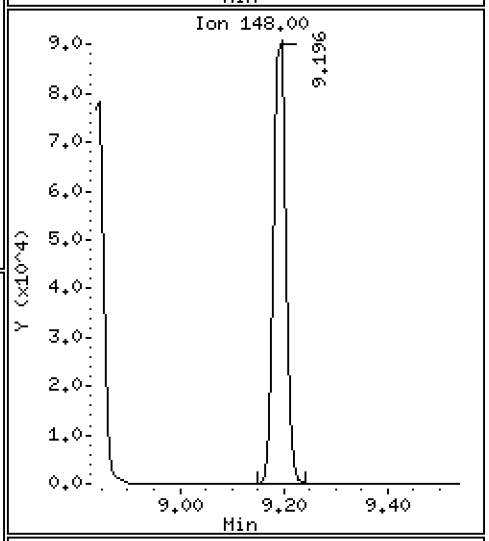


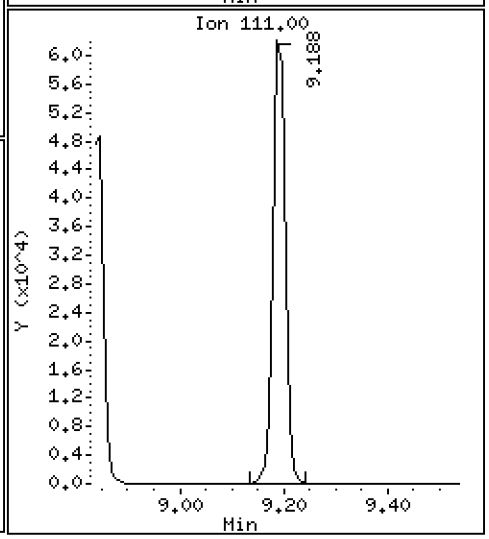












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

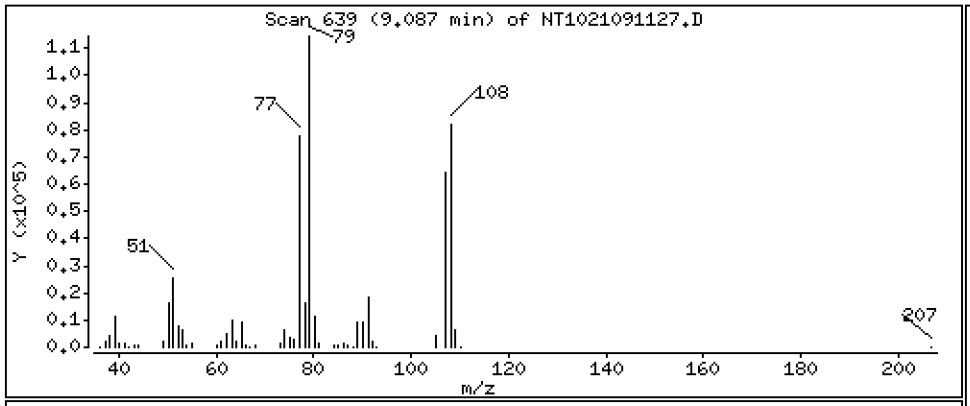
Operator: VTS

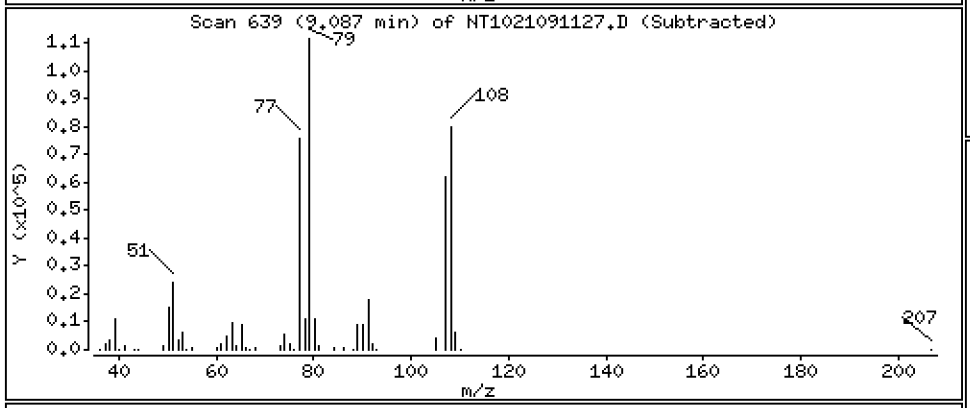
Column phase: ZB-5msi

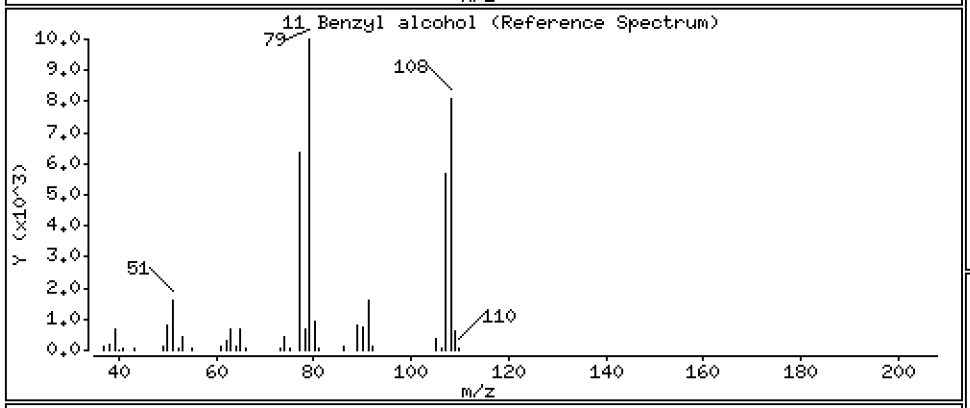
Column diameter: 0.25

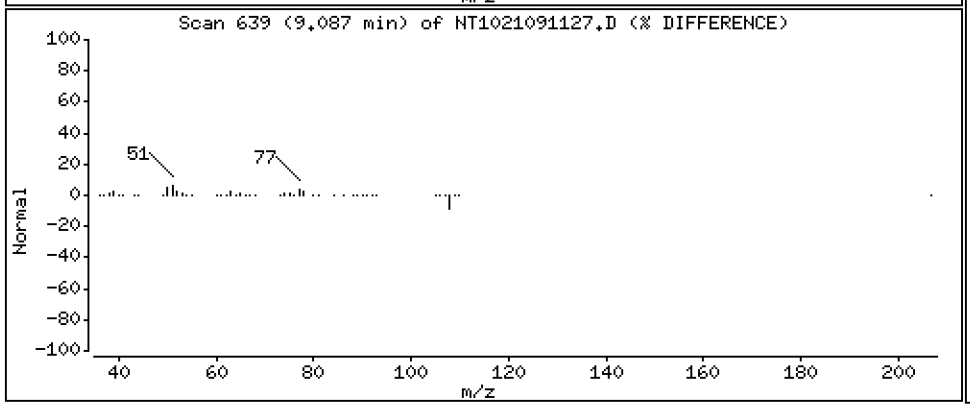
11 Benzyl alcohol

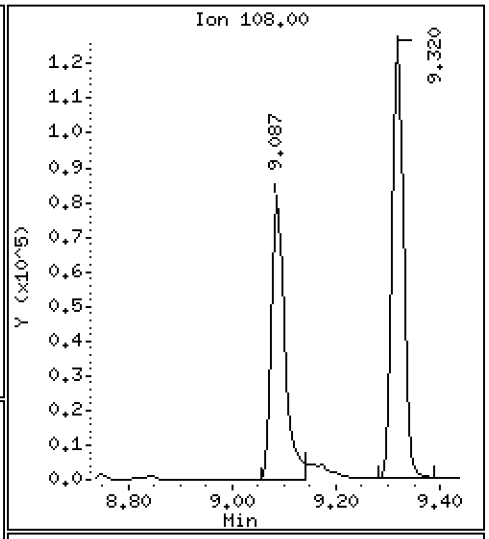
Concentration: 5.384 ug/mL

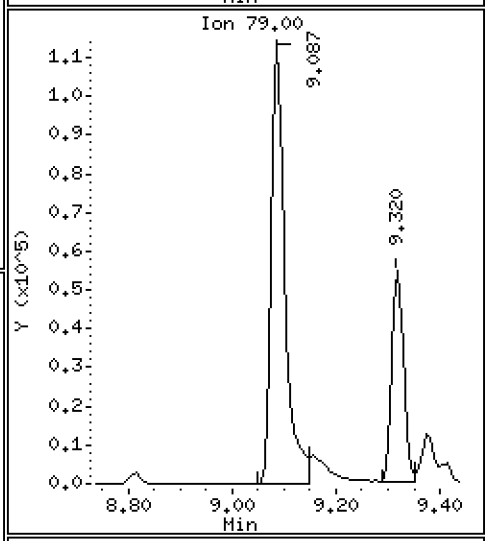


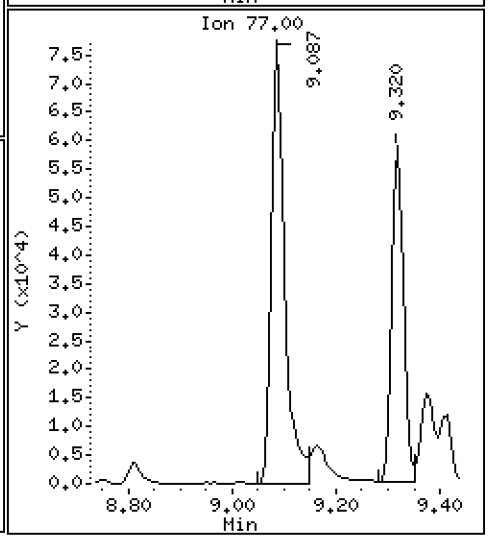












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

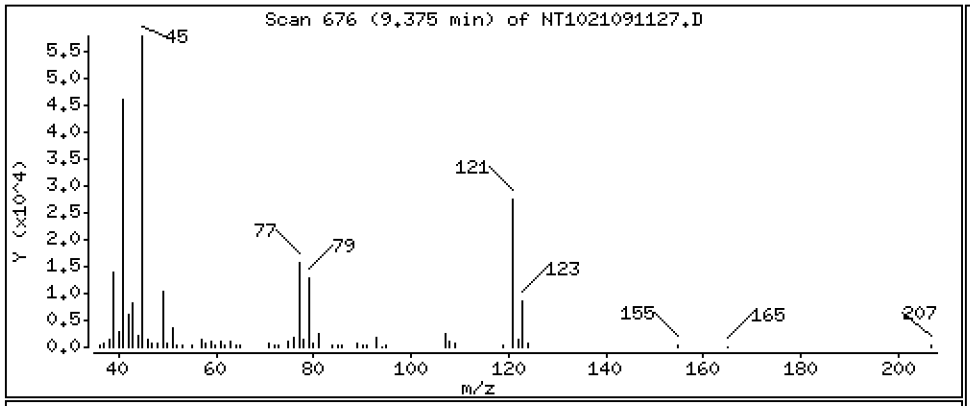
Operator: VTS

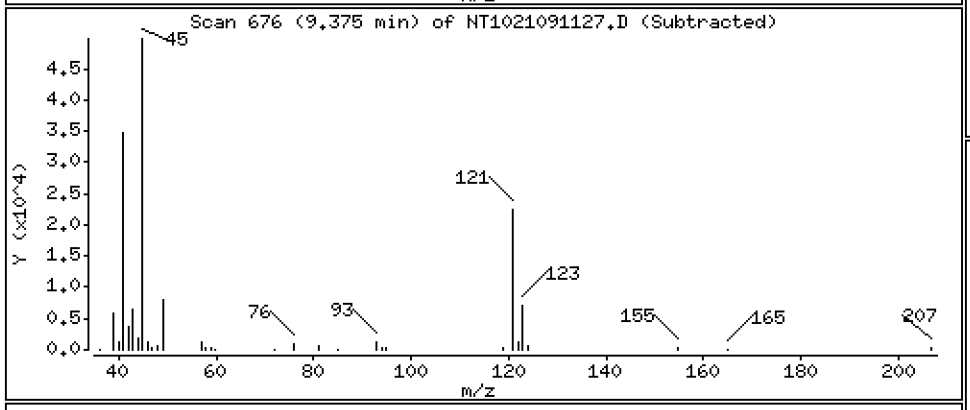
Column phase: ZB-5msi

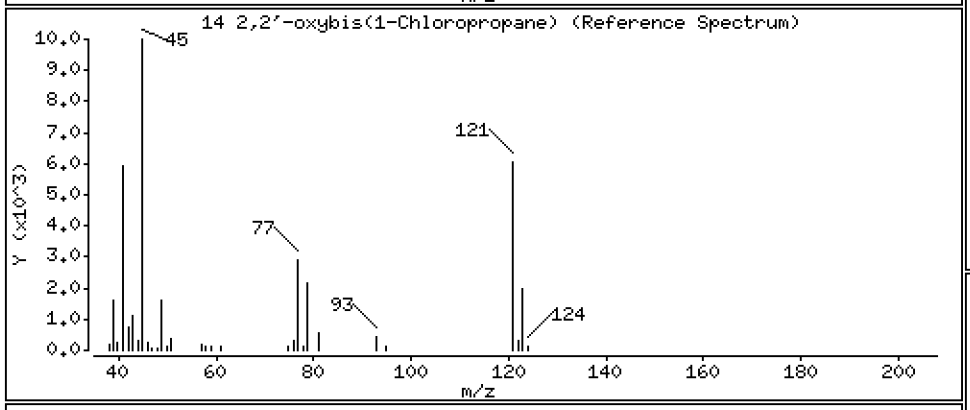
Column diameter: 0.25

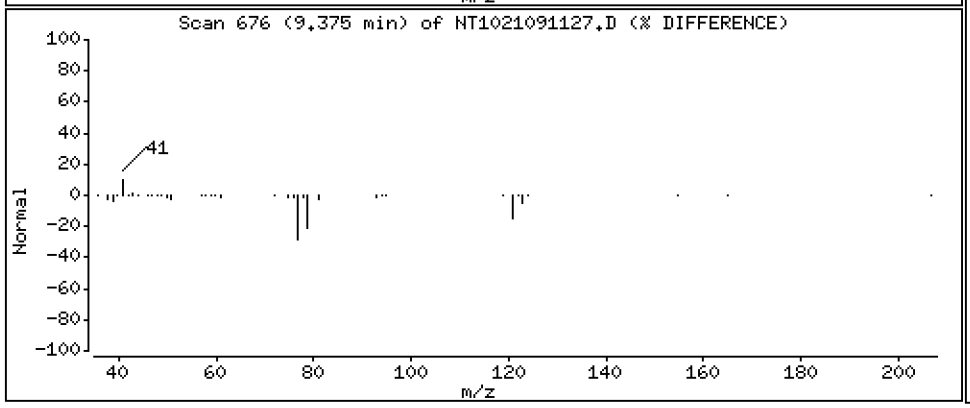
14 2,2'-oxybis(1-Chloropropane)

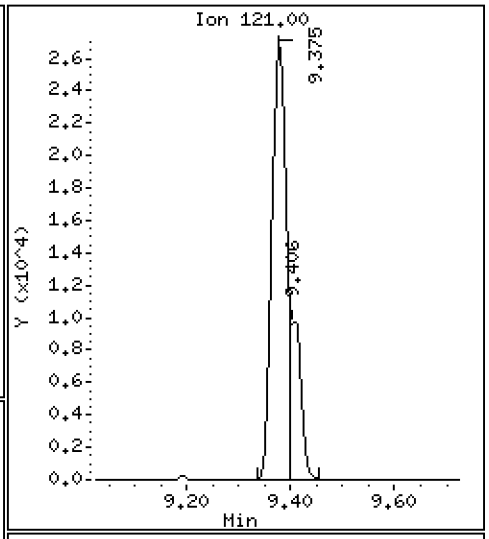
Concentration: 4.054 ug/mL

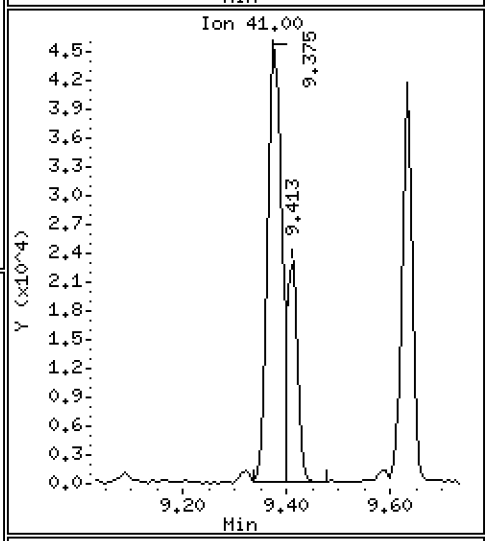


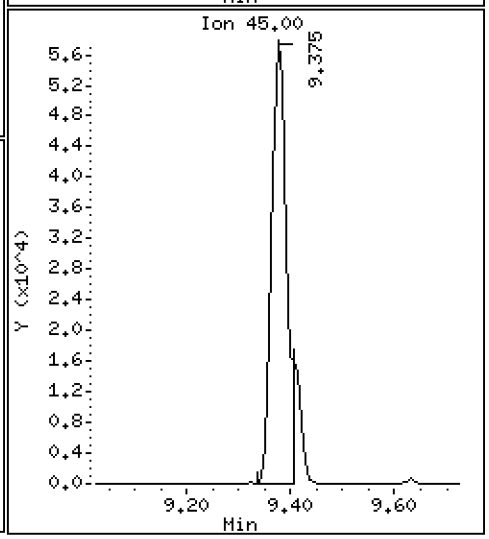












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

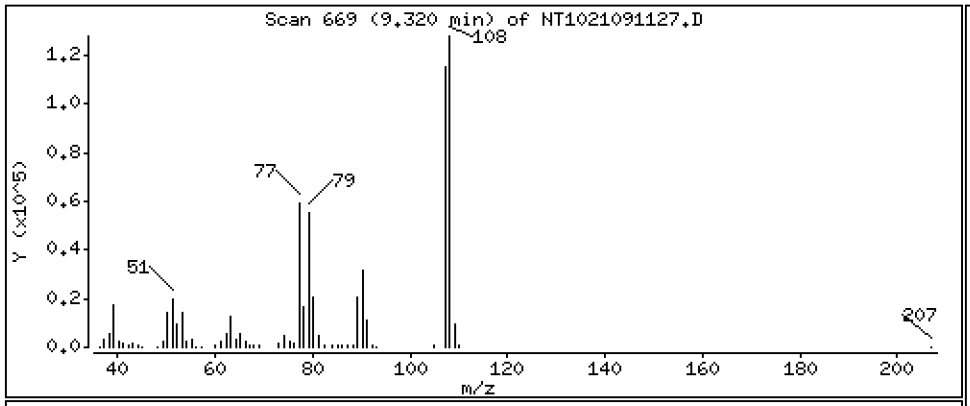
Operator: VTS

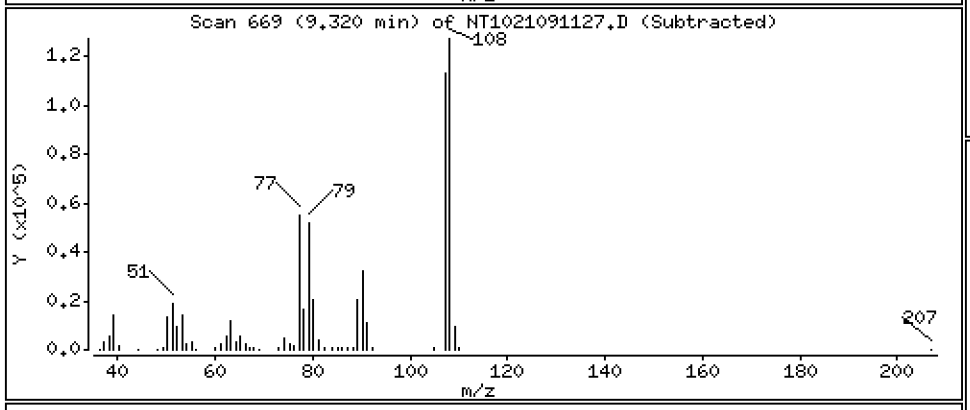
Column phase: ZB-5msi

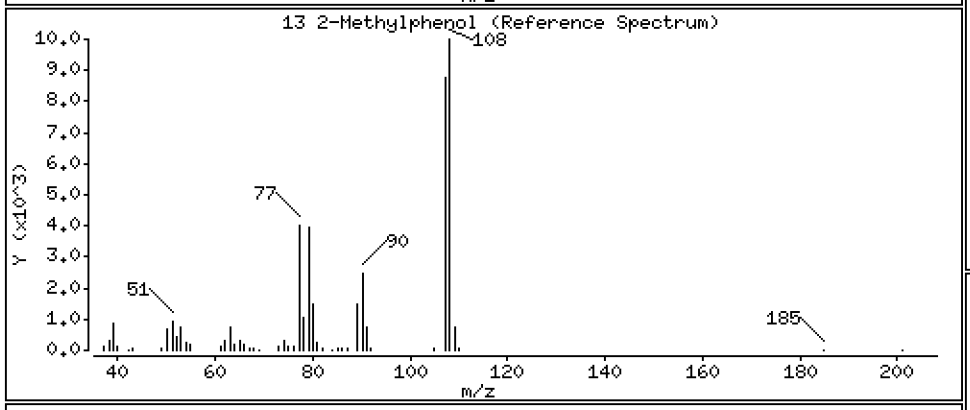
Column diameter: 0.25

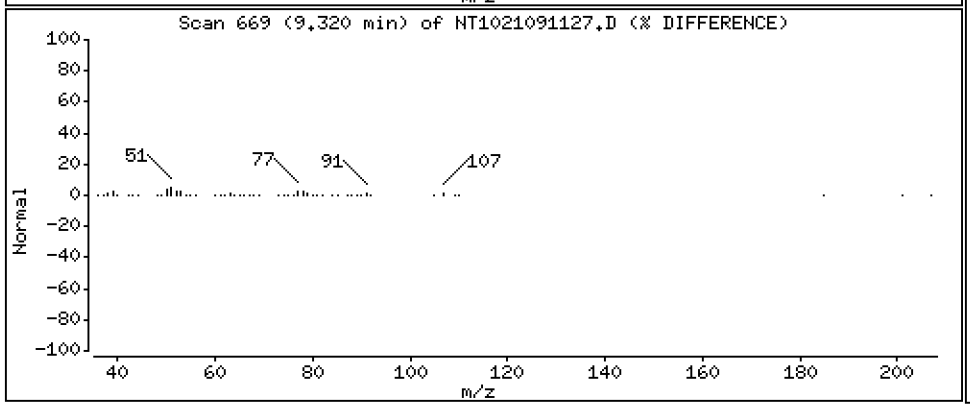
13 2-Methylphenol

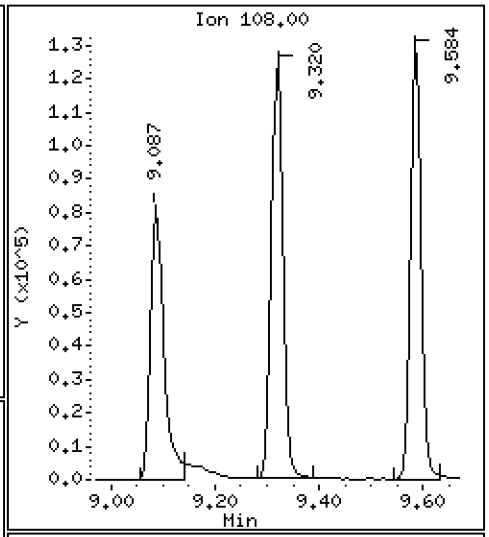
Concentration: 5.088 ug/mL

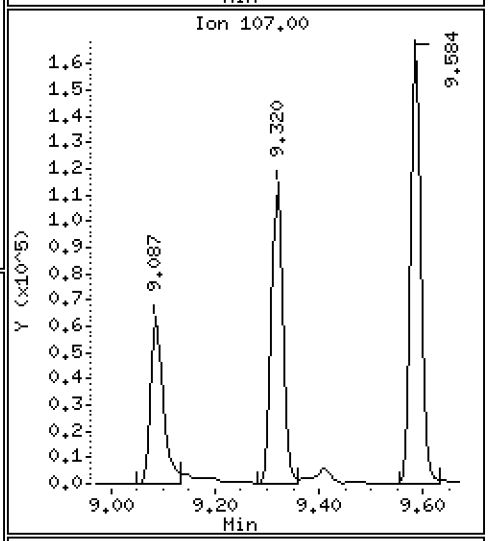


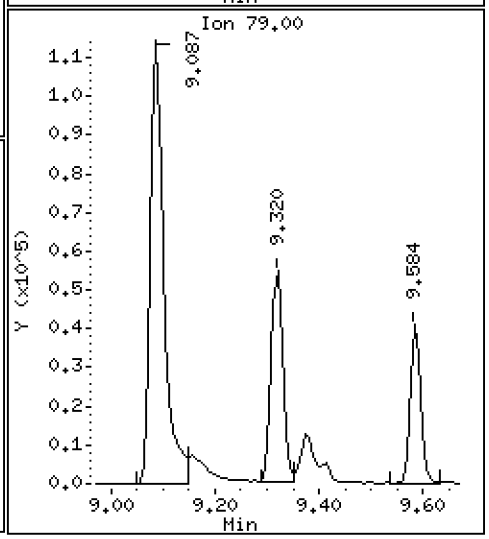












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

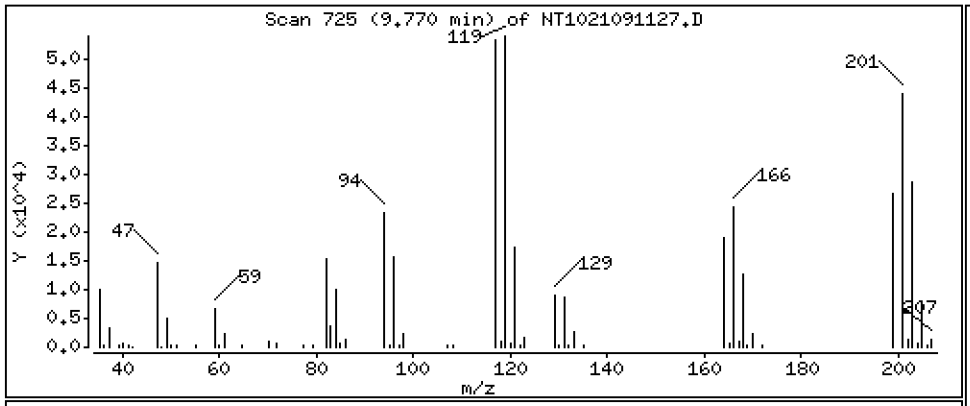
Operator: VTS

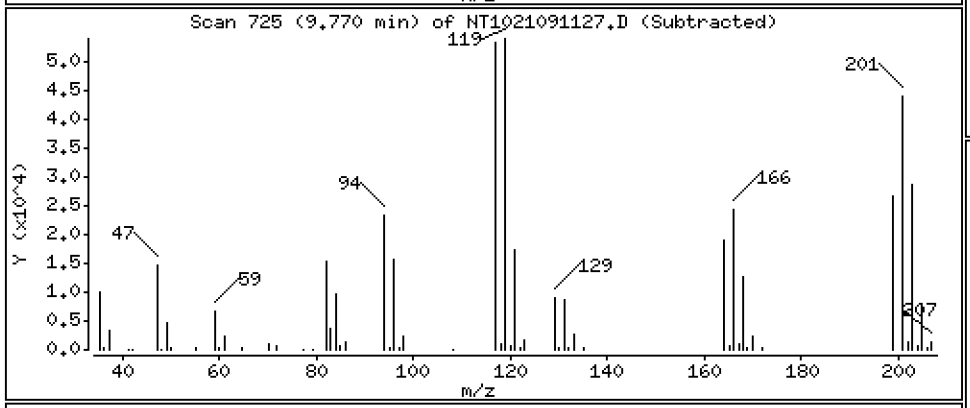
Column phase: ZB-5msi

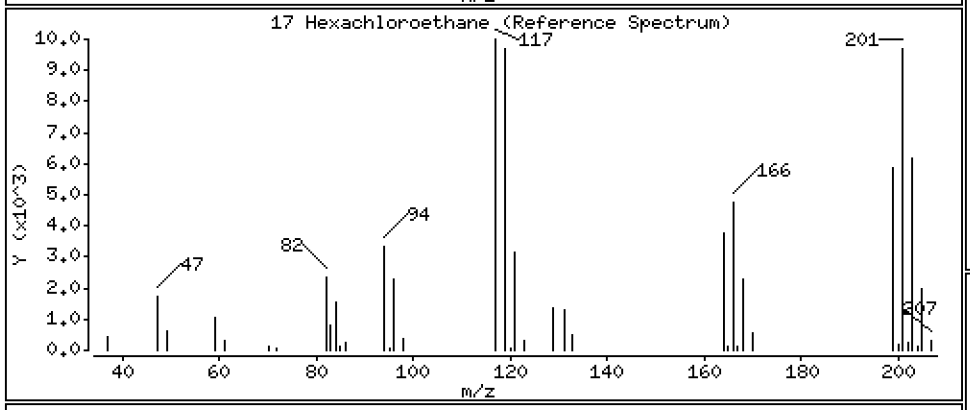
Column diameter: 0.25

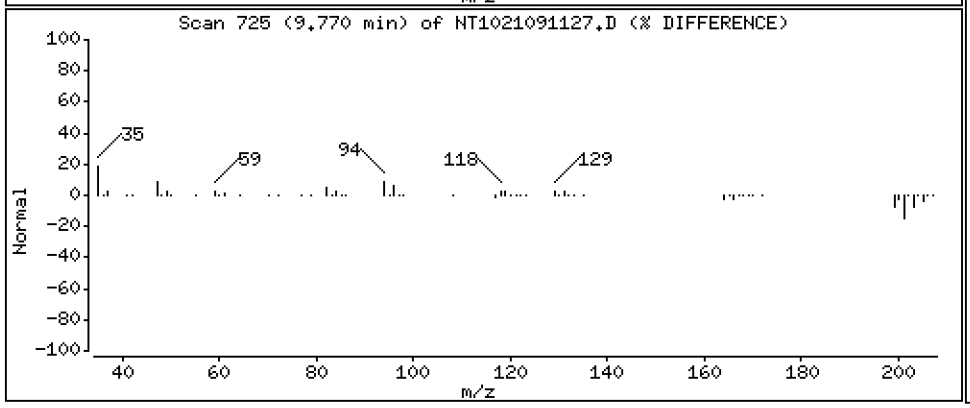
17 Hexachloroethane

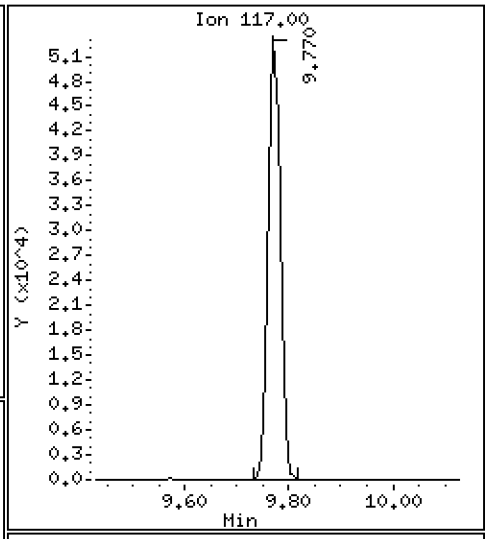
Concentration: 5.157 ug/mL

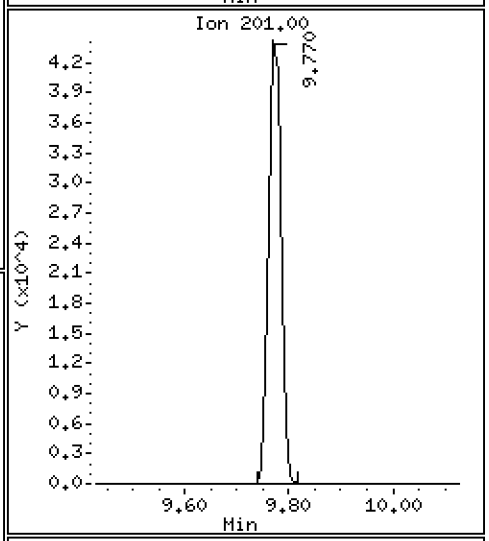


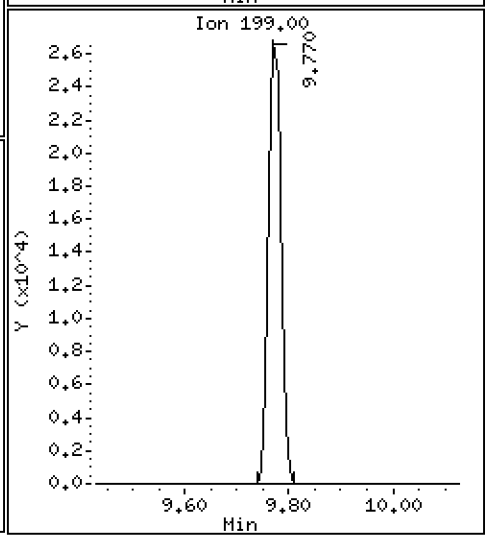












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

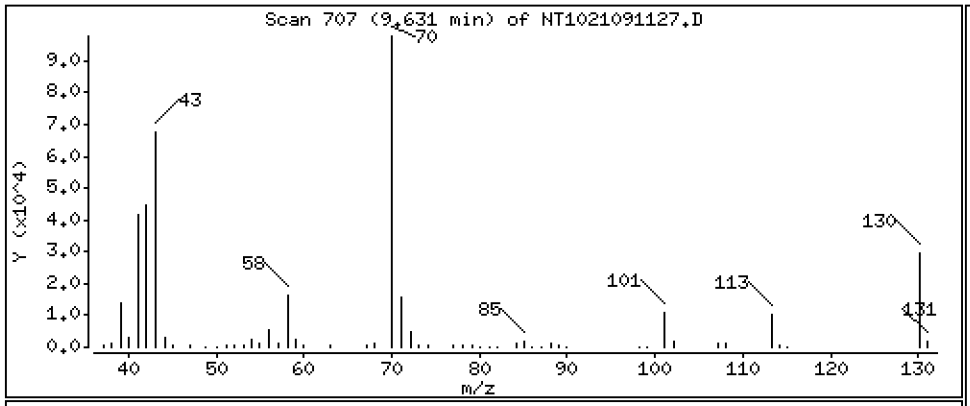
Operator: VTS

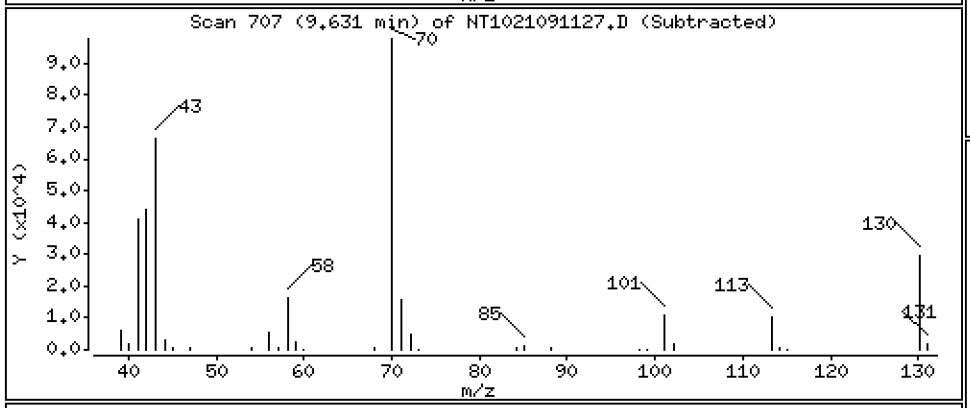
Column phase: ZB-5msi

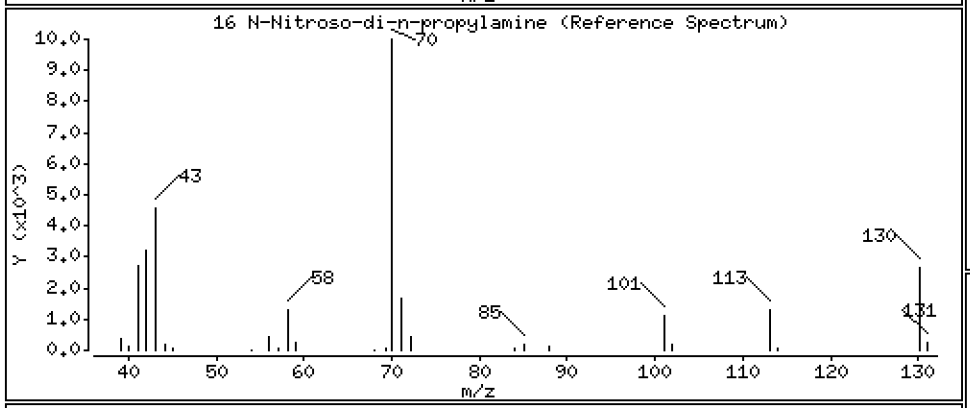
Column diameter: 0.25

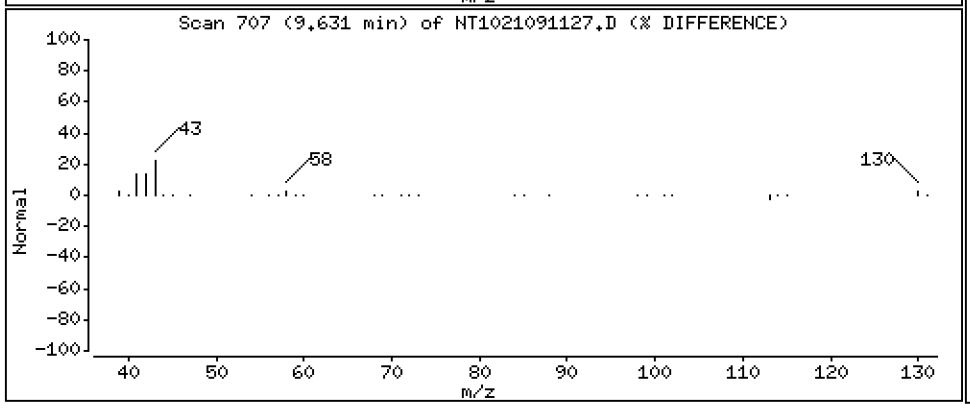
16 N-Nitroso-di-n-propylamine

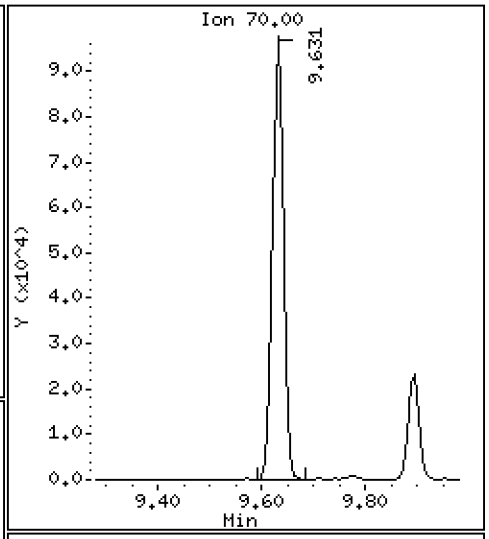
Concentration: 5.319 ug/mL

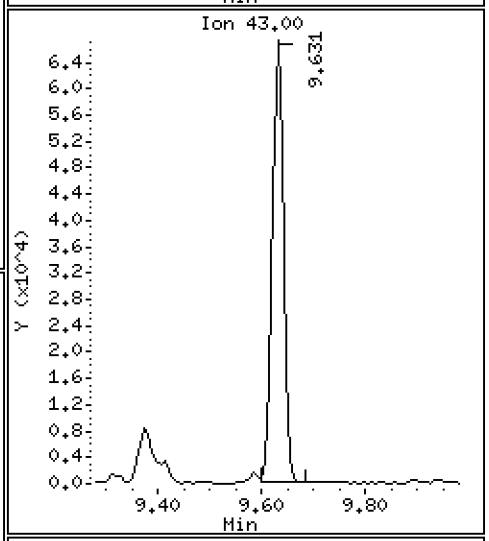


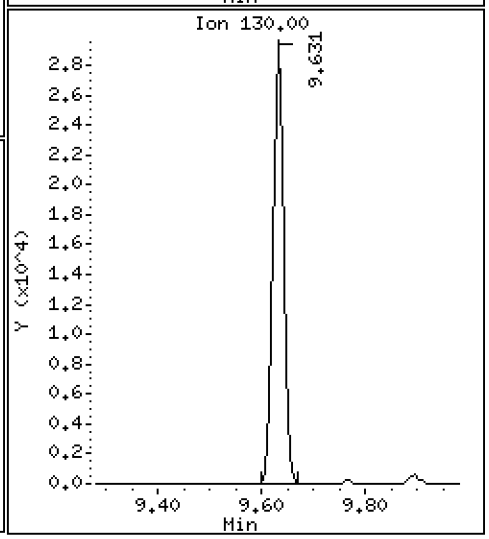












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

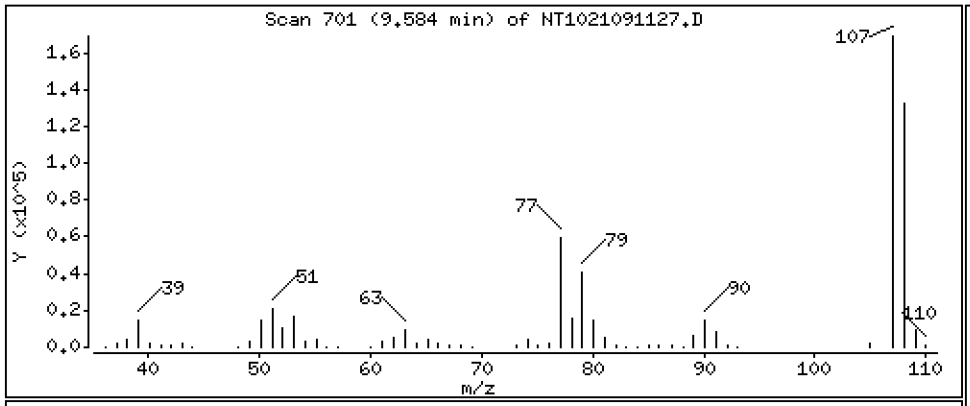
Operator: VTS

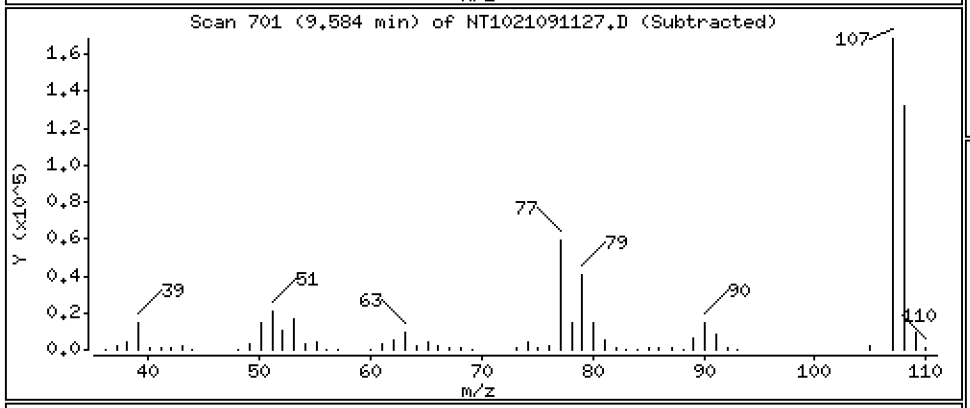
Column phase: ZB-5msi

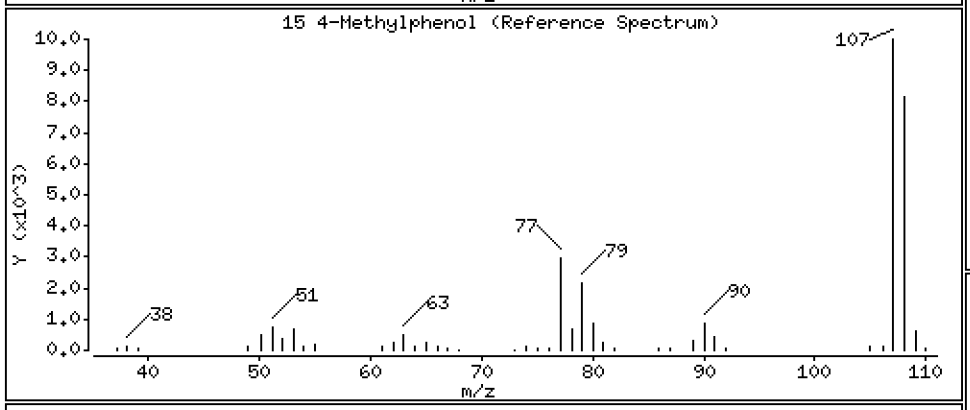
Column diameter: 0.25

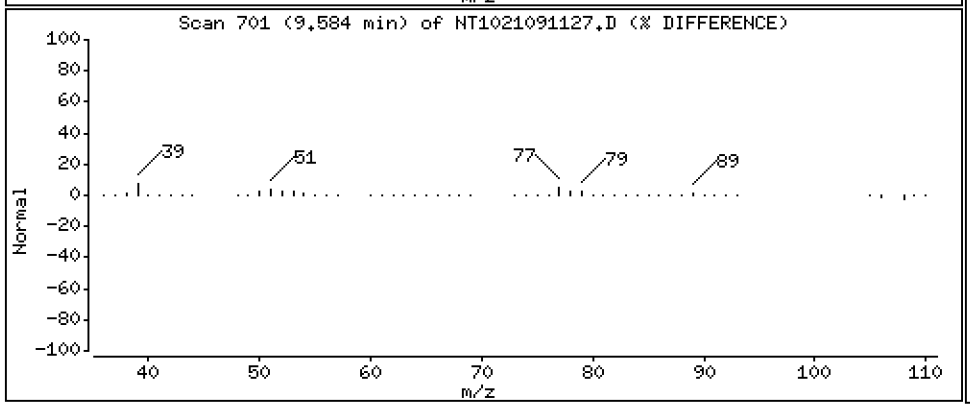
15 4-Methylphenol

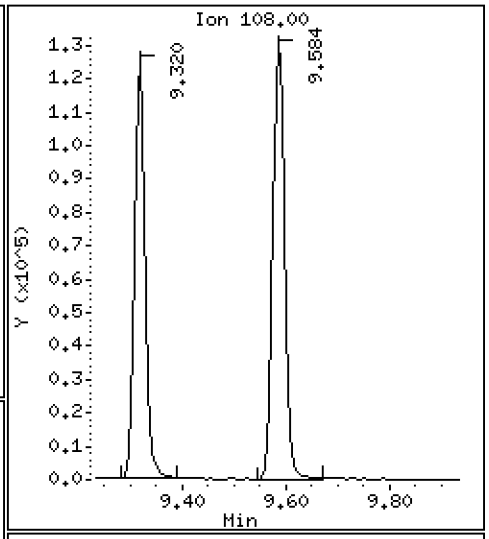
Concentration: 5.125 ug/mL

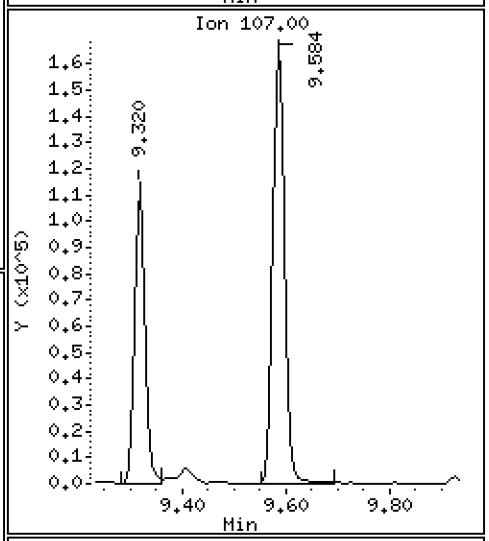


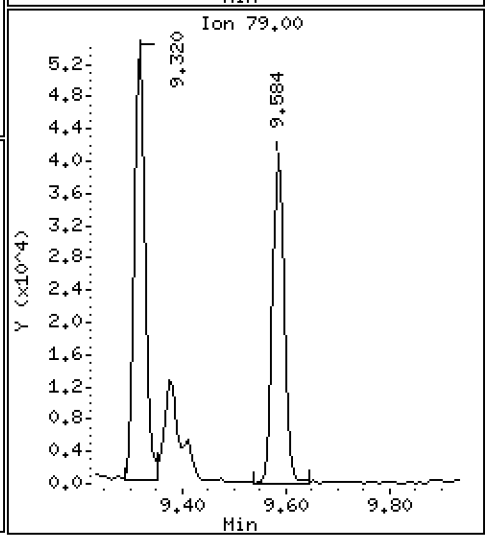












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

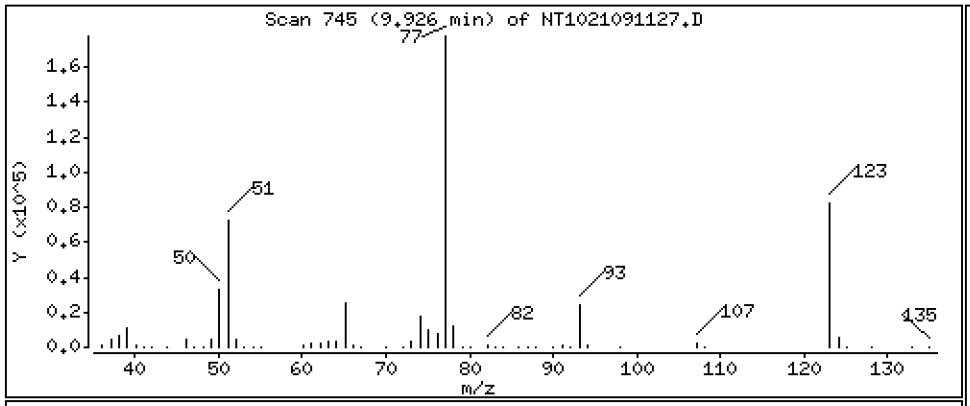
Operator: VTS

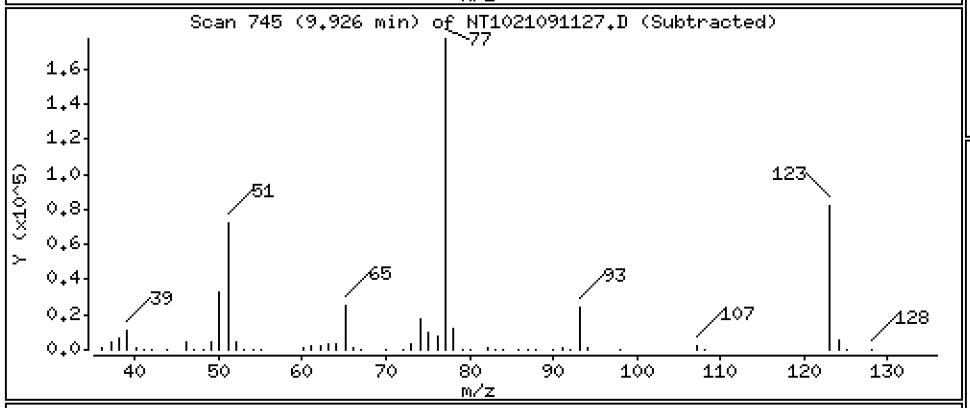
Column phase: ZB-5msi

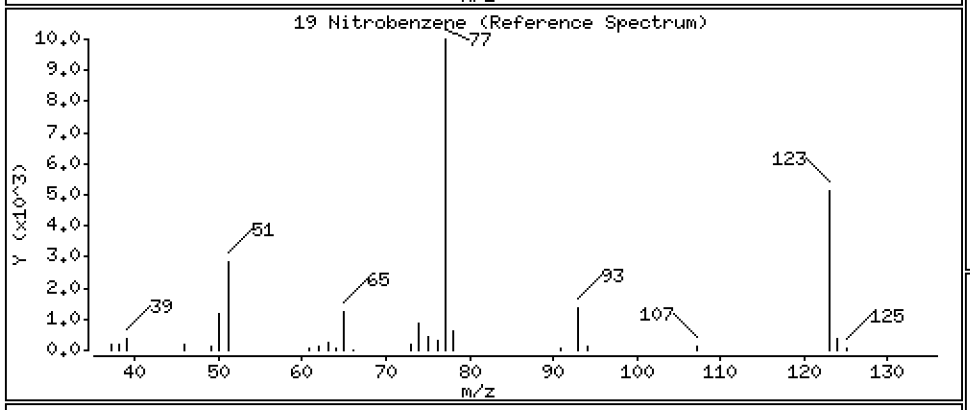
Column diameter: 0.25

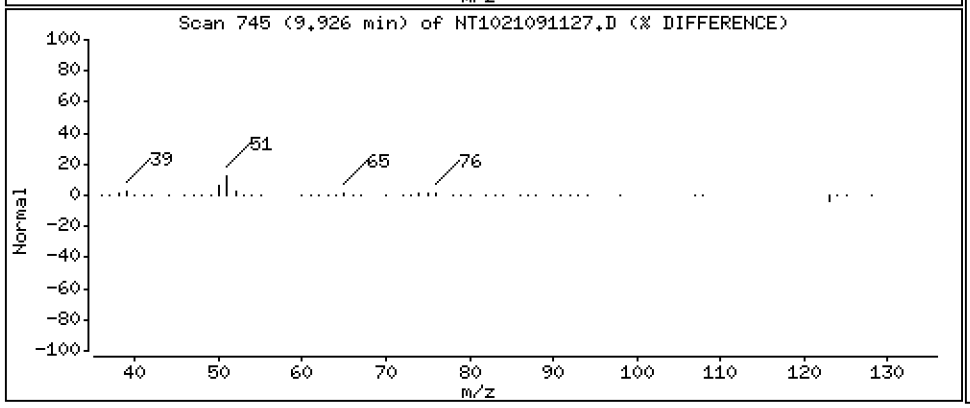
19 Nitrobenzene

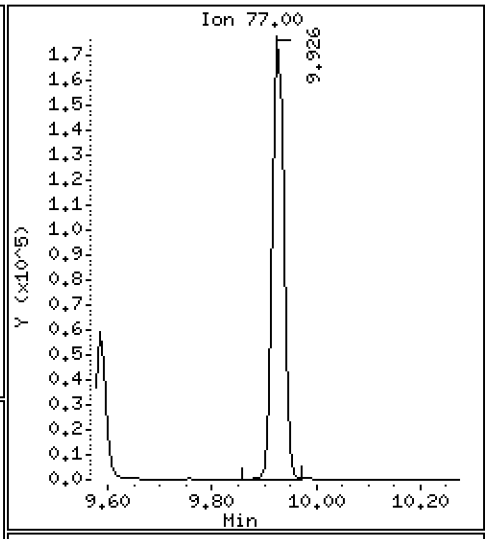
Concentration: 6.389 ug/mL

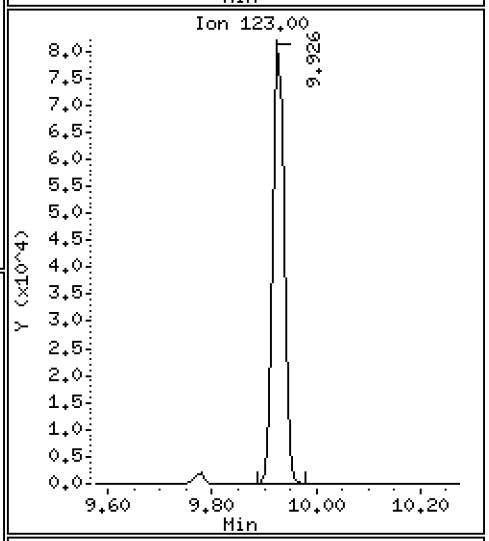


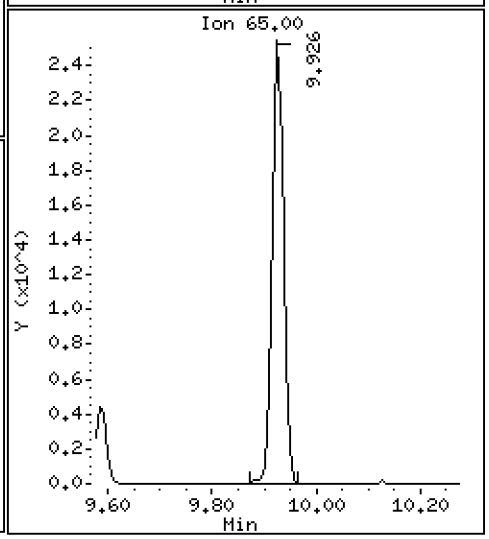












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

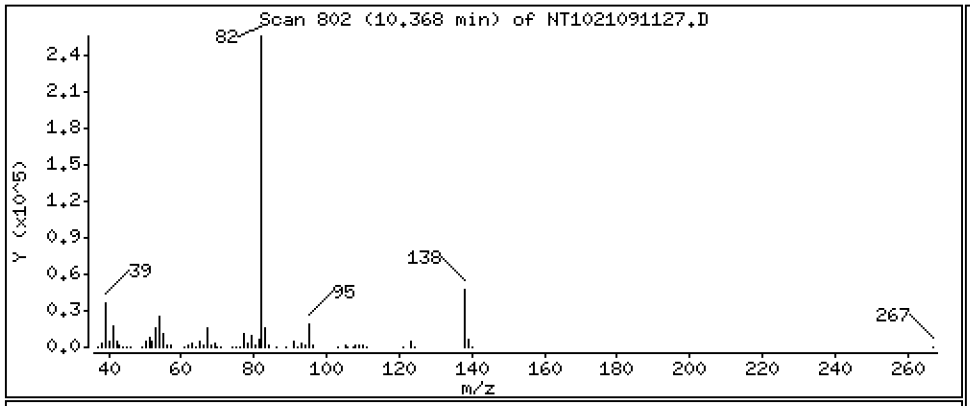
Operator: VTS

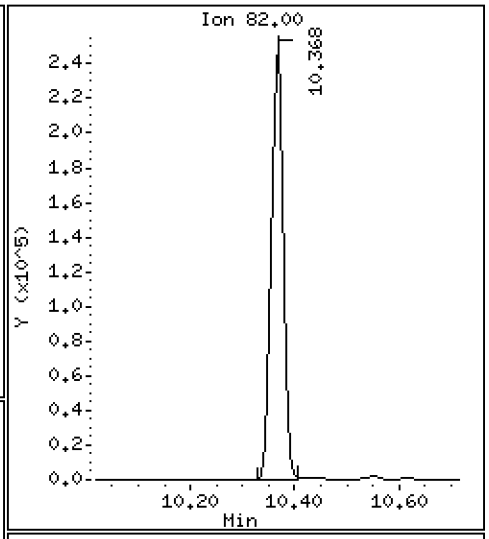
Column phase: ZB-5msi

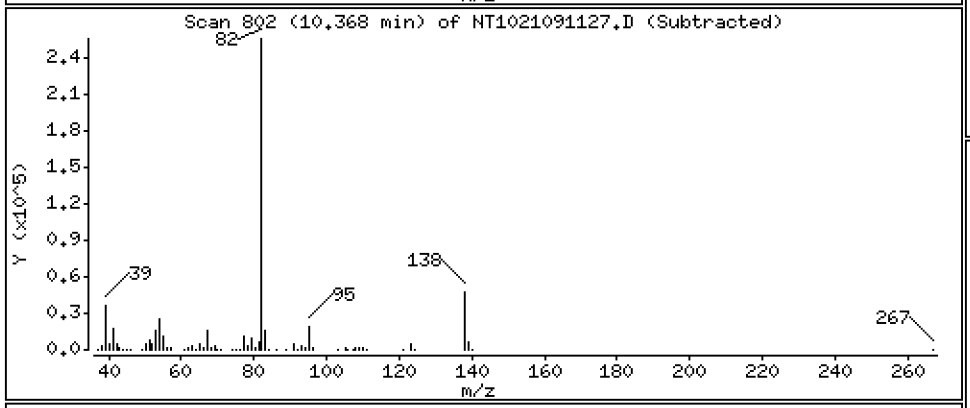
Column diameter: 0.25

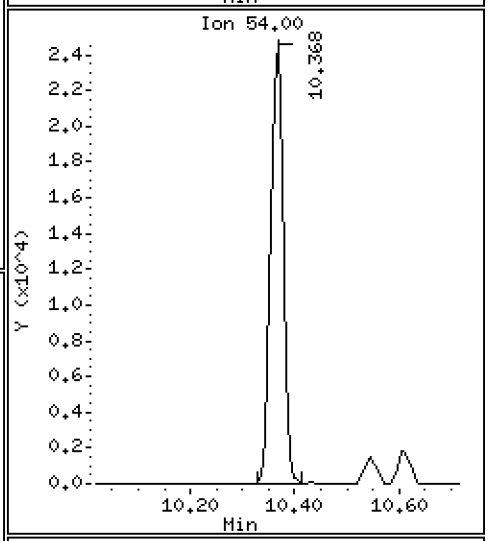
20 Isophorone

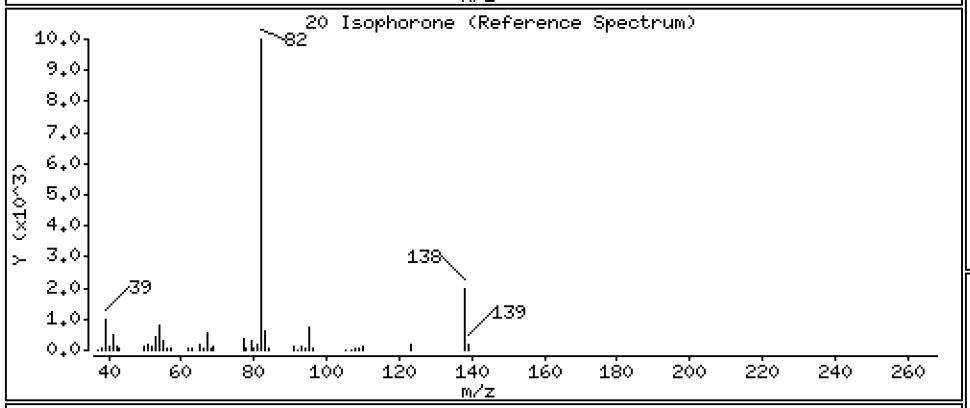
Concentration: 6.261 ug/mL

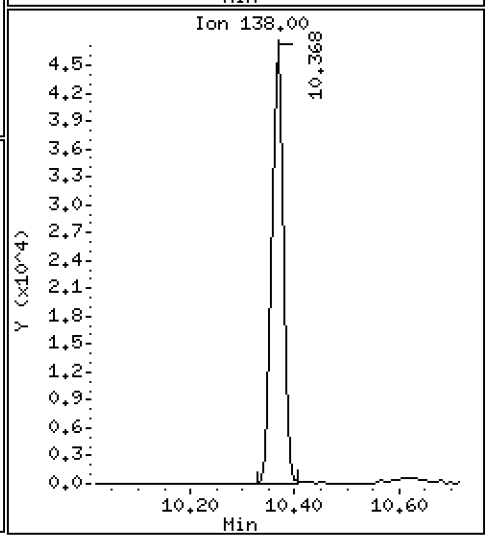


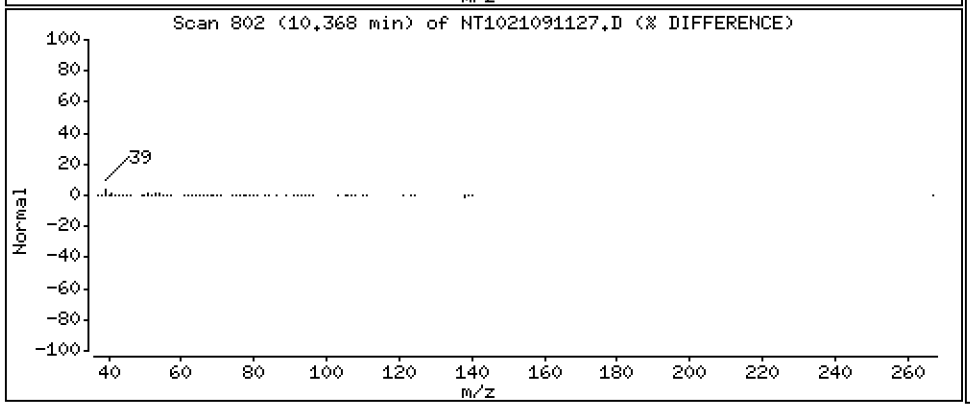












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

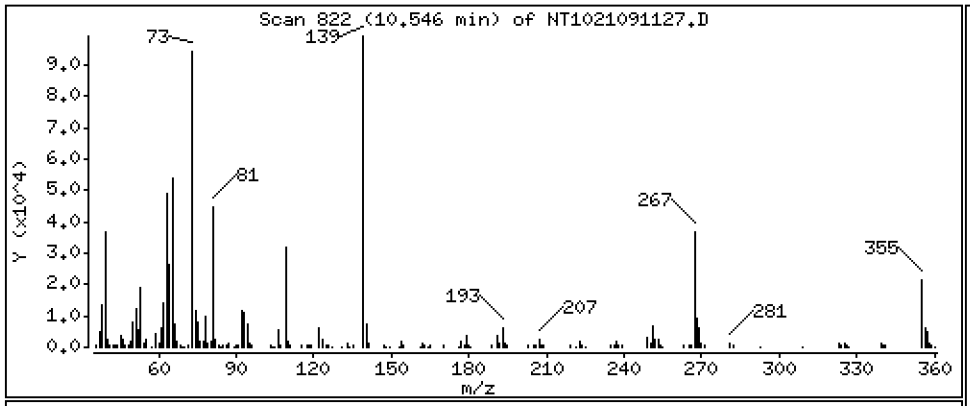
Operator: VTS

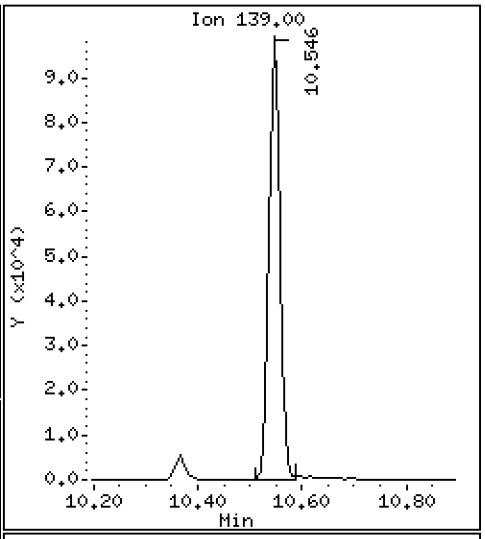
Column phase: ZB-5msi

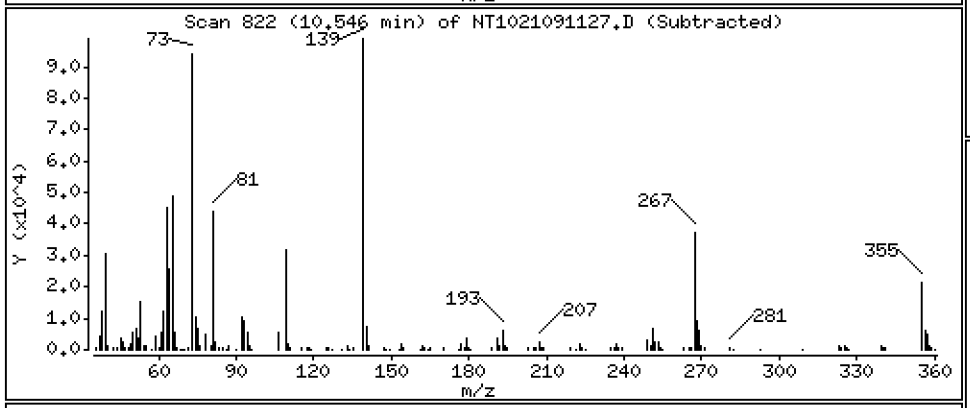
Column diameter: 0.25

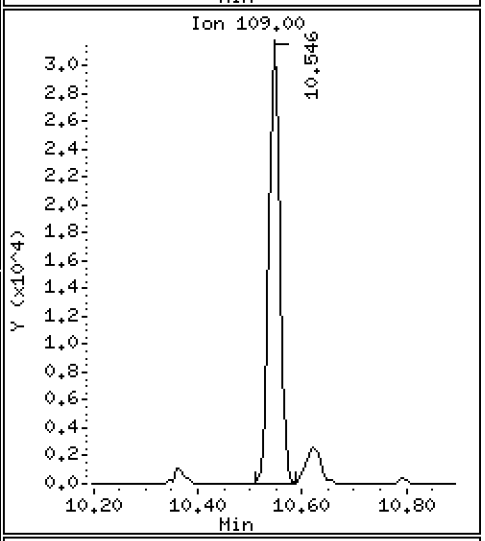
21 2-Nitrophenol

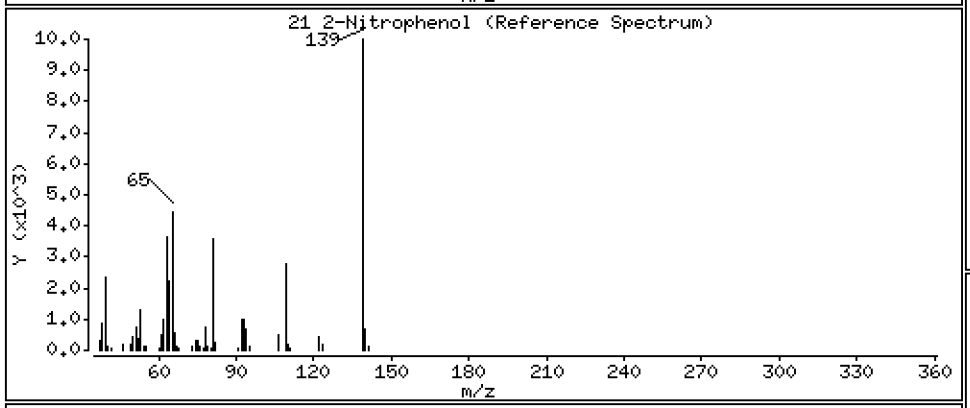
Concentration: 6.309 ug/mL

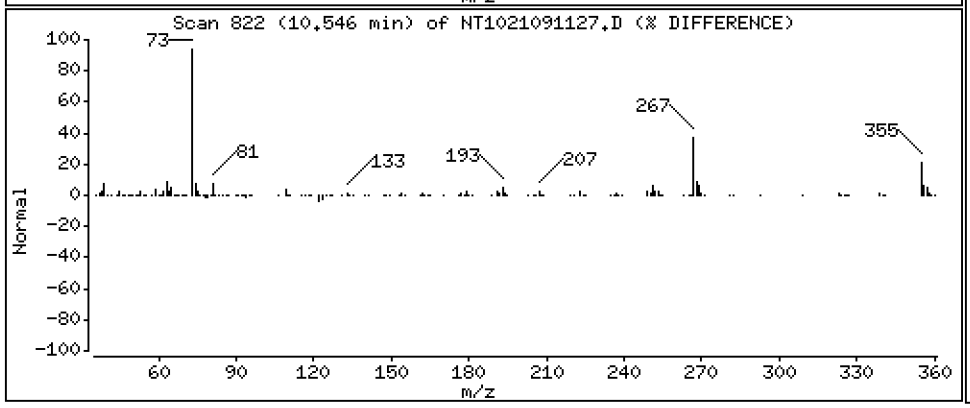


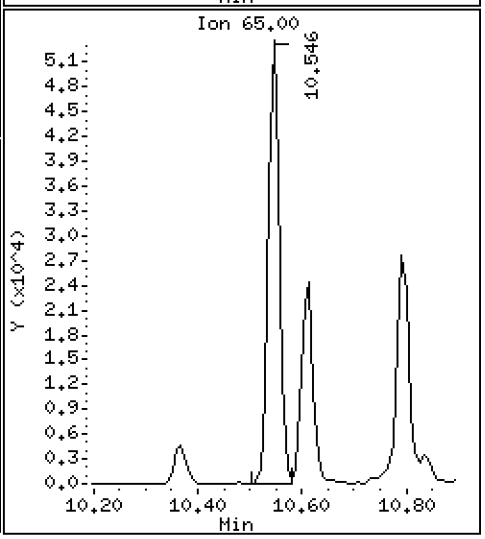












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

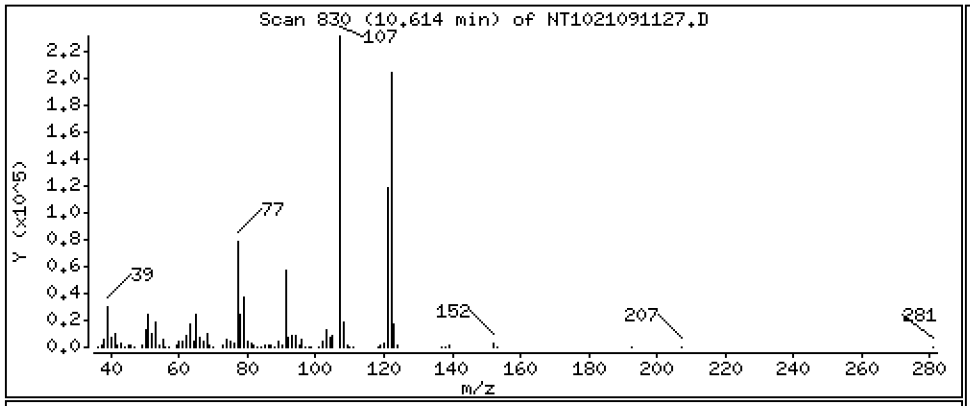
Operator: VTS

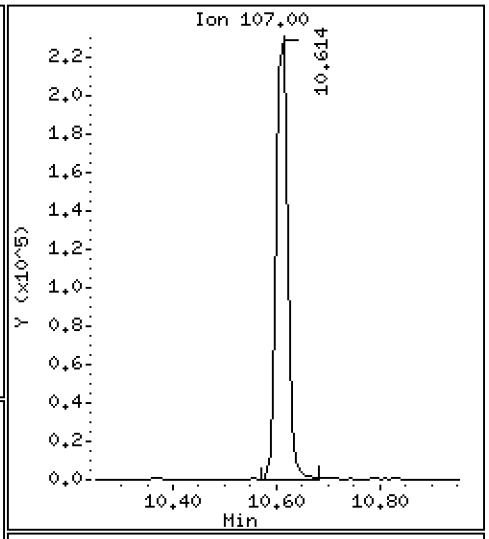
Column phase: ZB-5msi

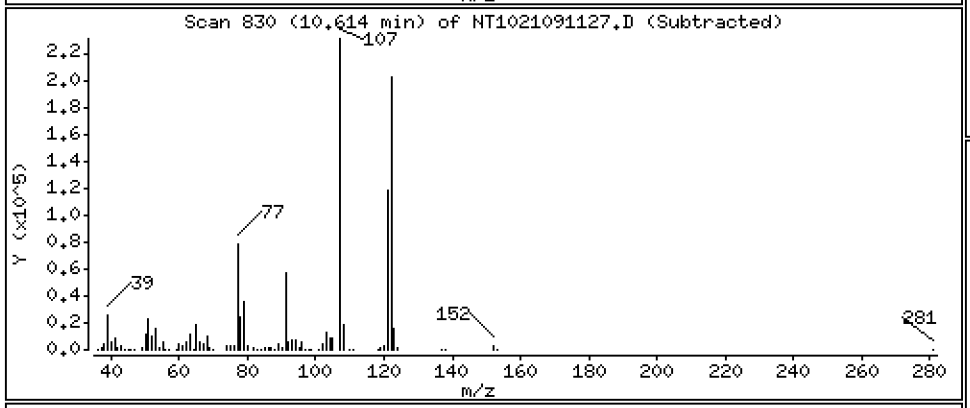
Column diameter: 0.25

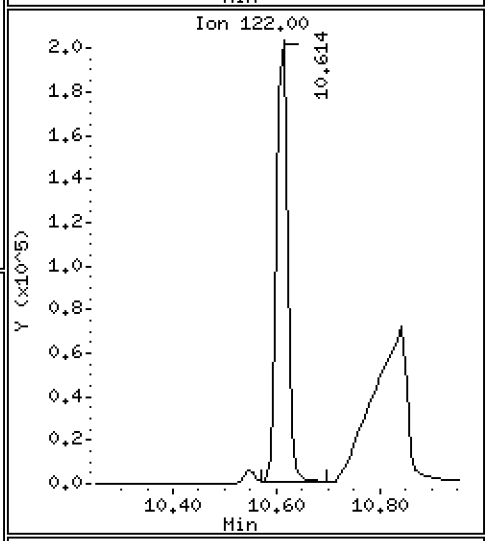
22 2,4-Dimethylphenol

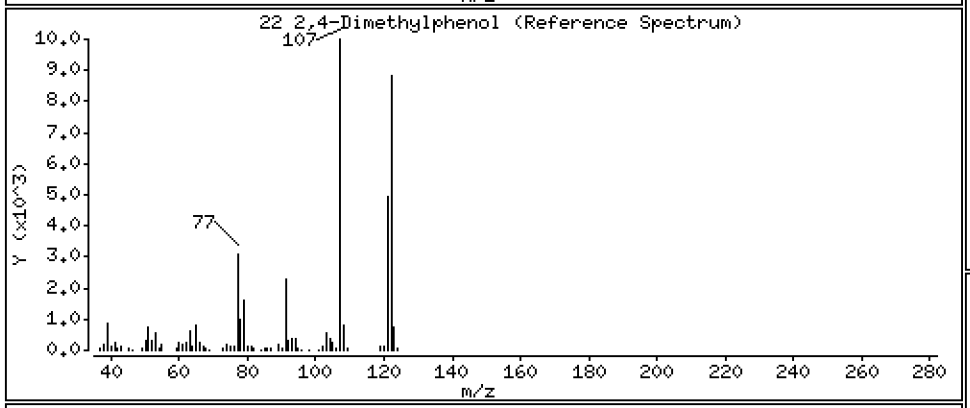
Concentration: 10.21 ug/mL

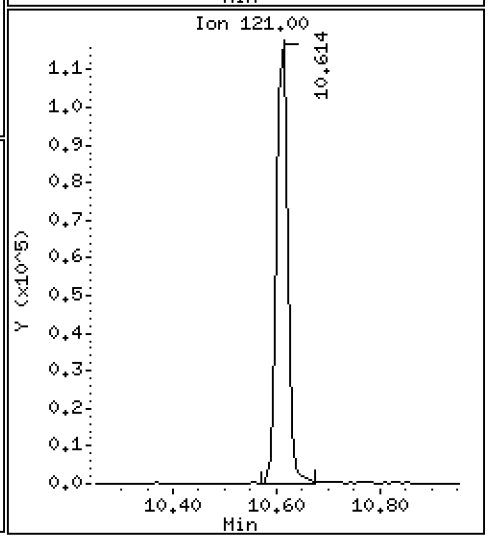


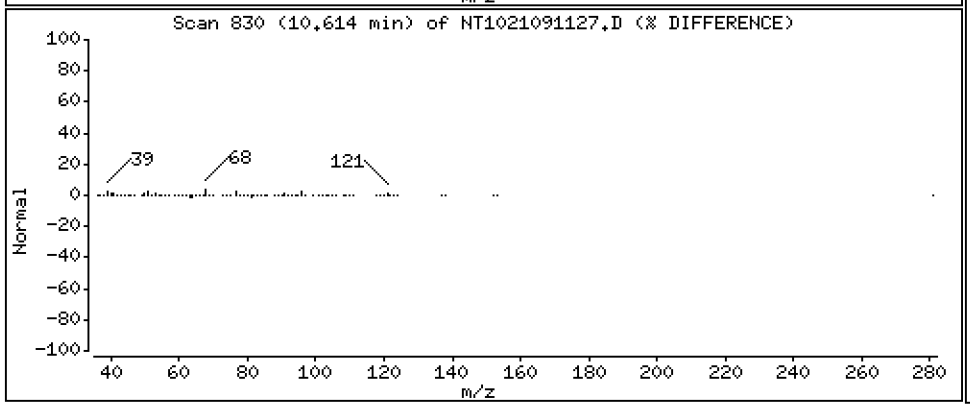












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

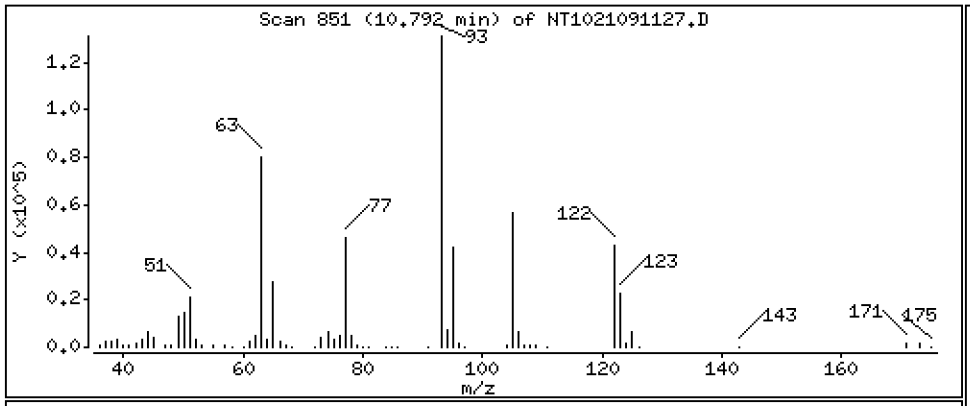
Operator: VTS

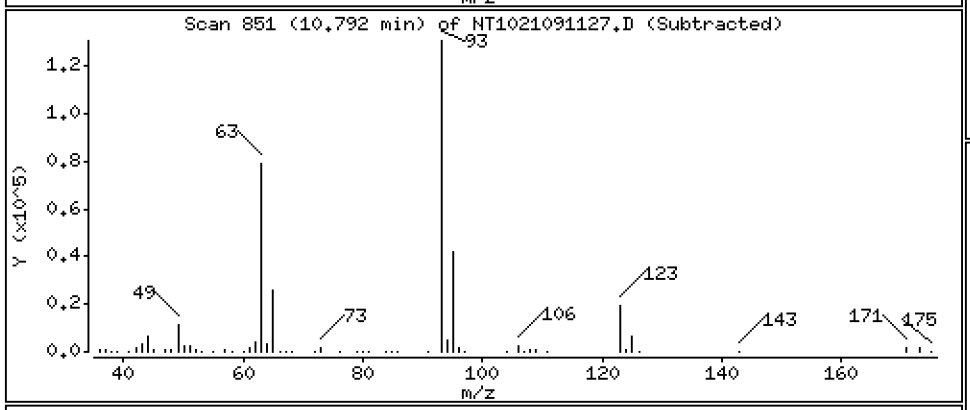
Column phase: ZB-5msi

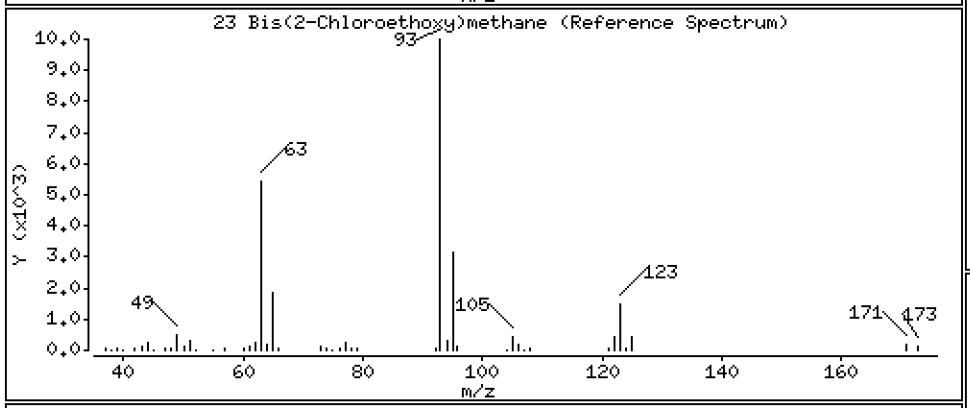
Column diameter: 0.25

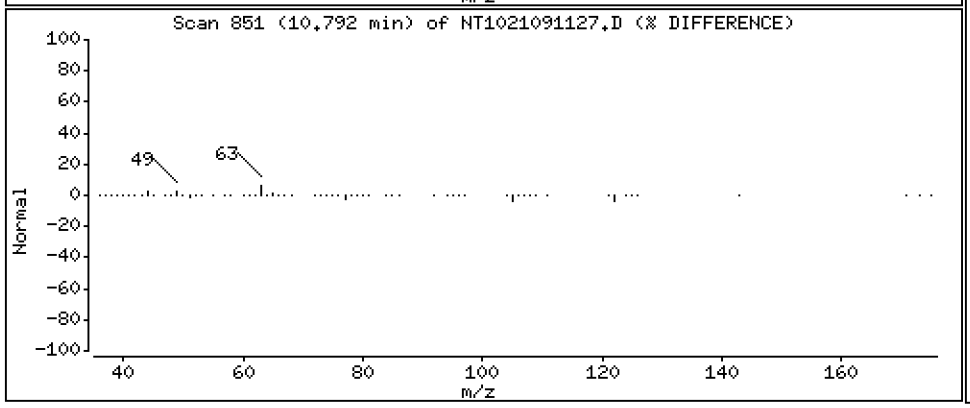
23 Bis(2-Chloroethoxy)methane

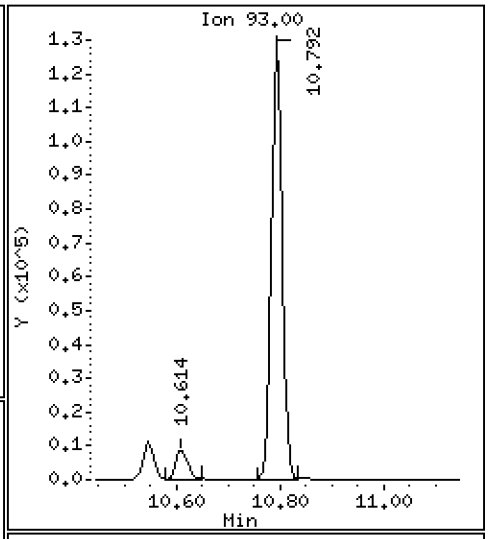
Concentration: 4.990 ug/mL

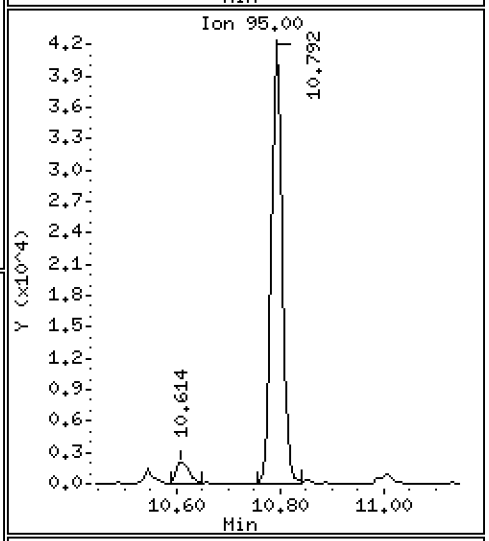


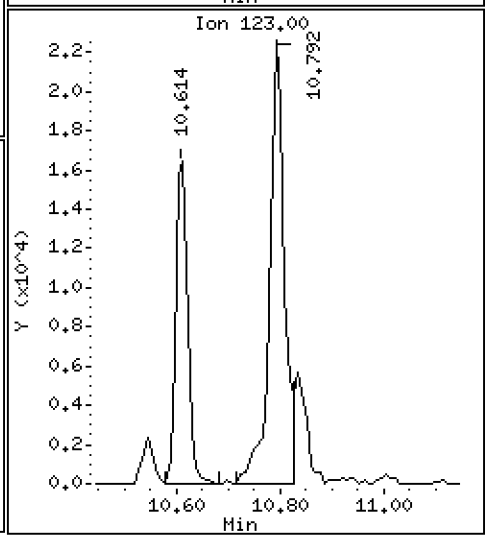












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

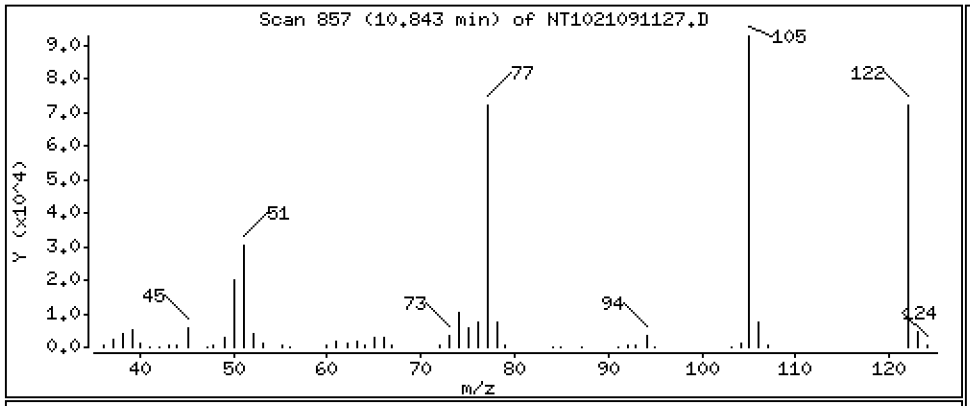
Operator: VTS

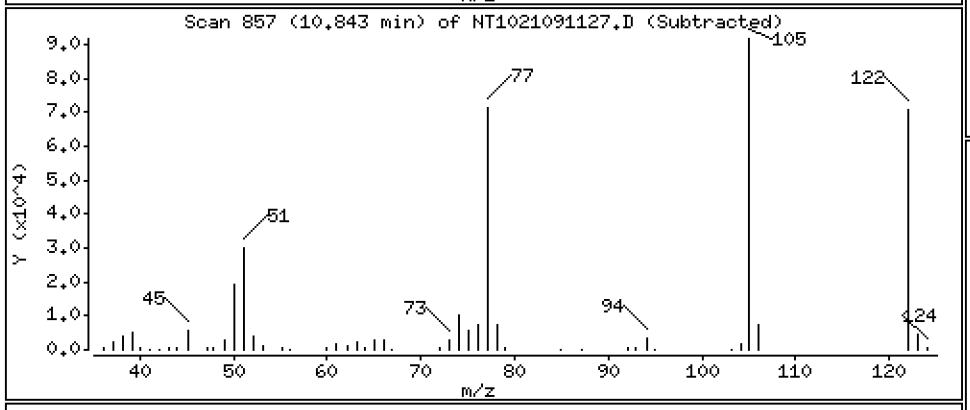
Column phase: ZB-5msi

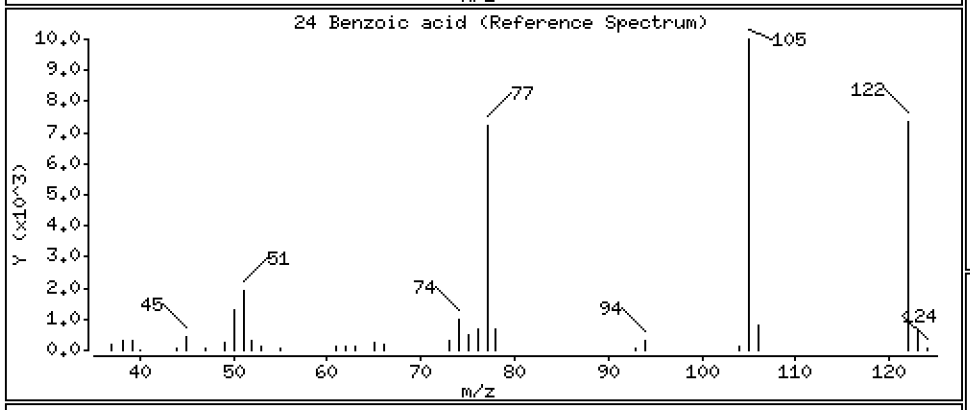
Column diameter: 0.25

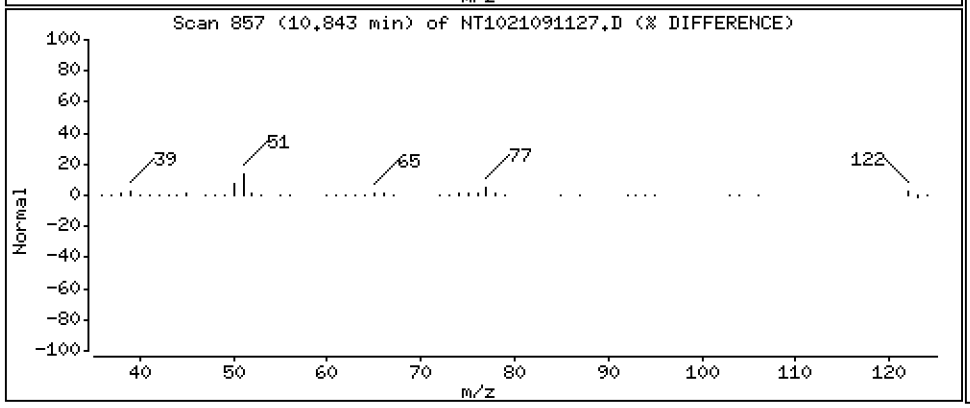
24 Benzoic acid

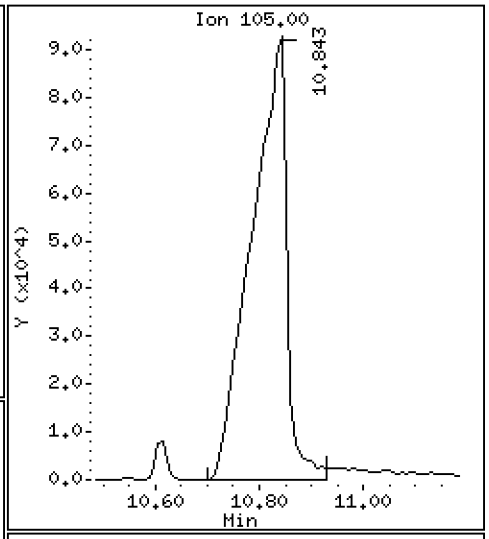
Concentration: 23.68 ug/mL

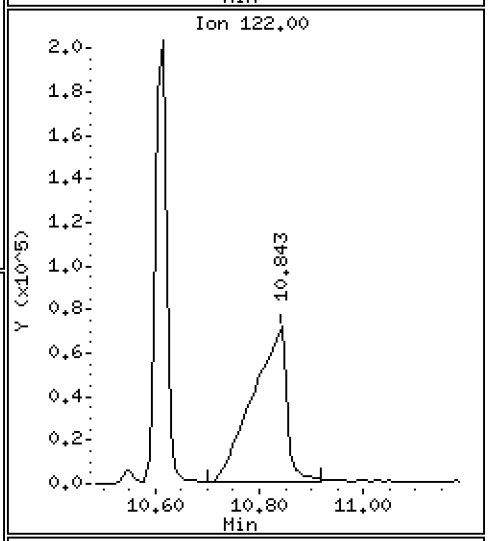


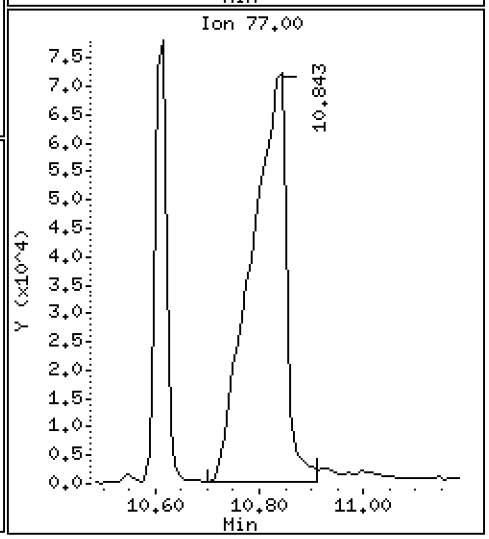












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

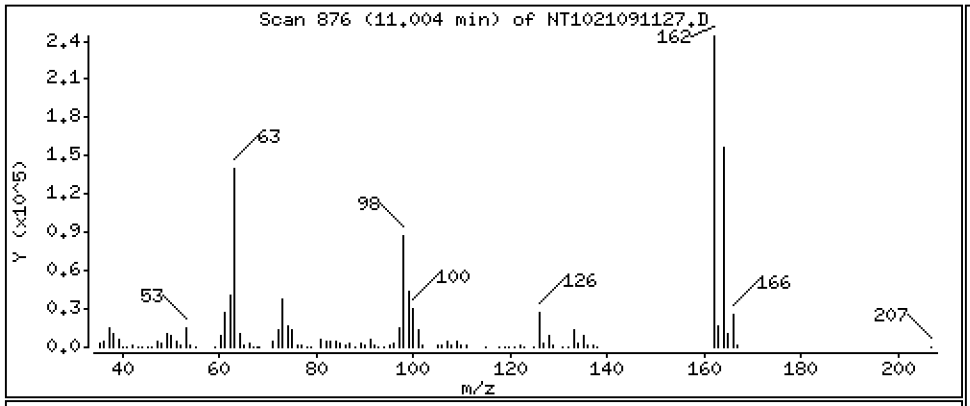
Operator: VTS

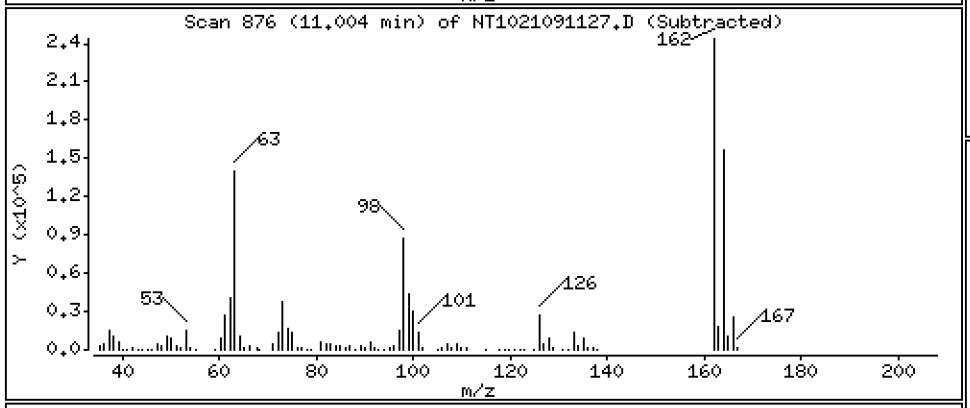
Column phase: ZB-5msi

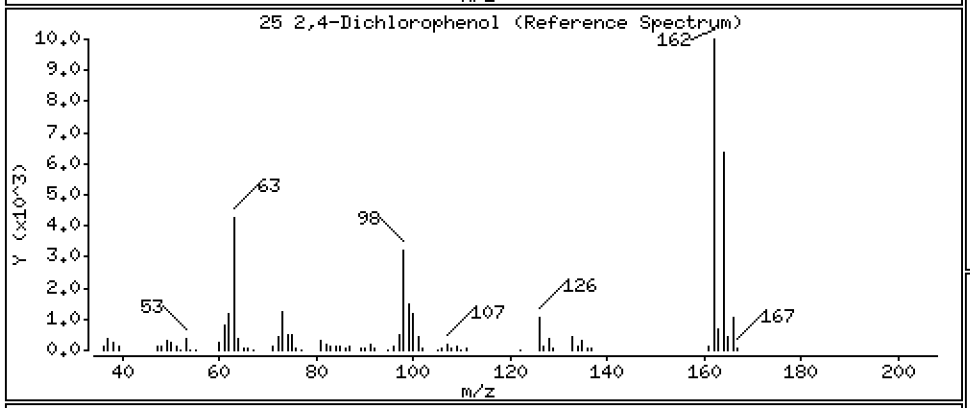
Column diameter: 0.25

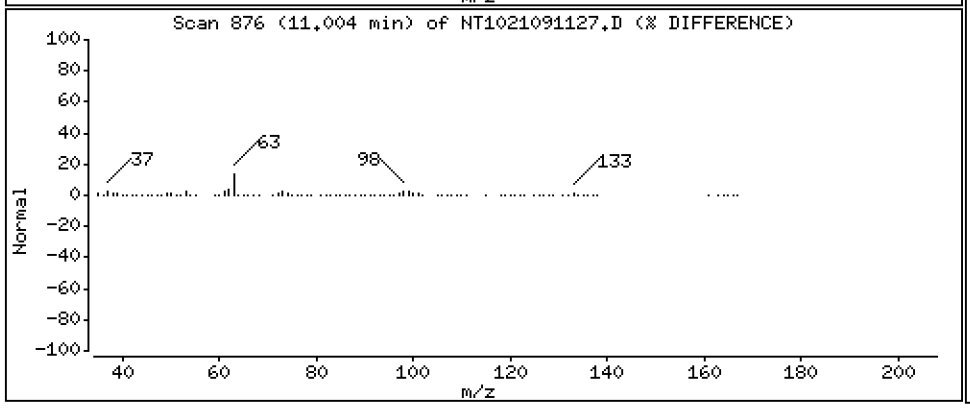
25 2,4-Dichlorophenol

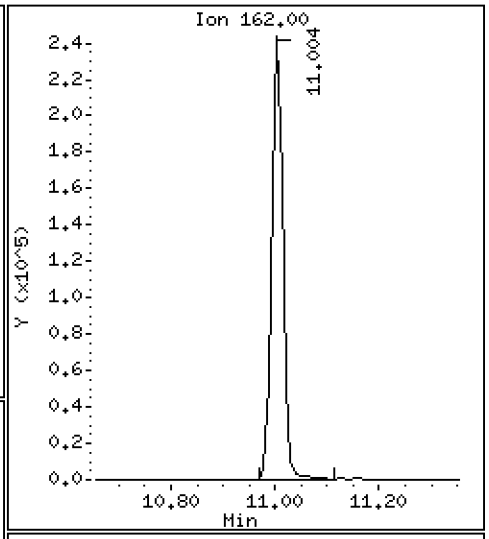
Concentration: 11.17 ug/mL

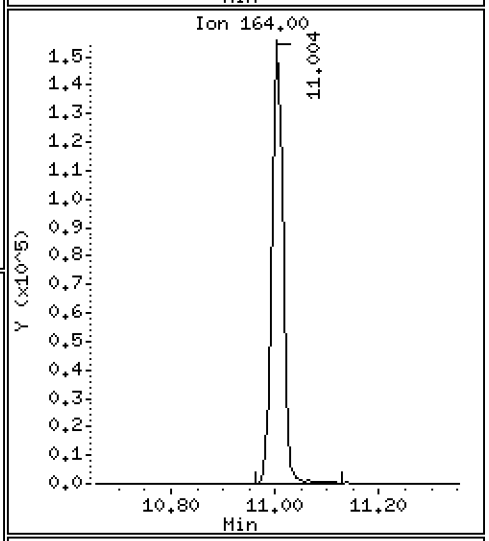


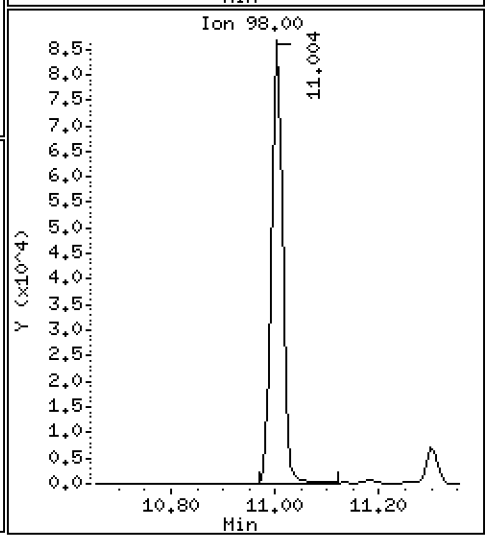












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

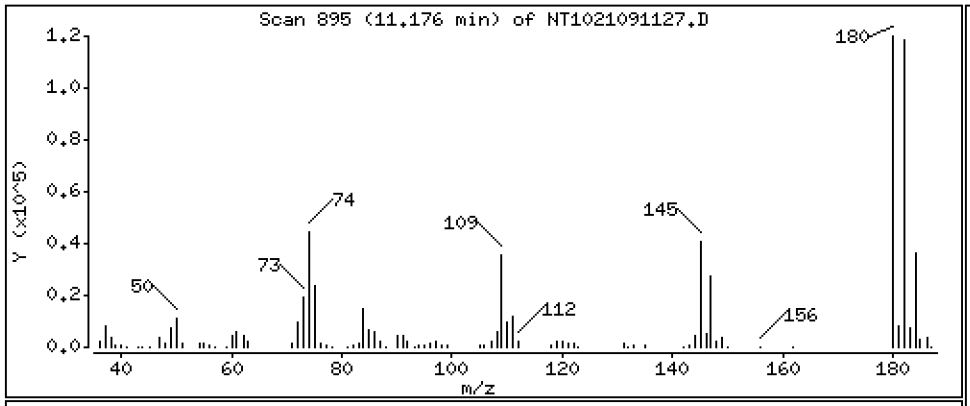
Operator: VTS

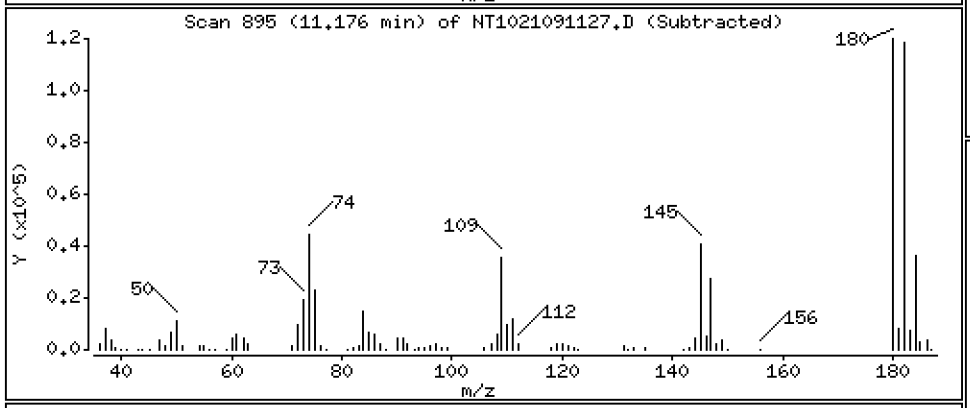
Column phase: ZB-5msi

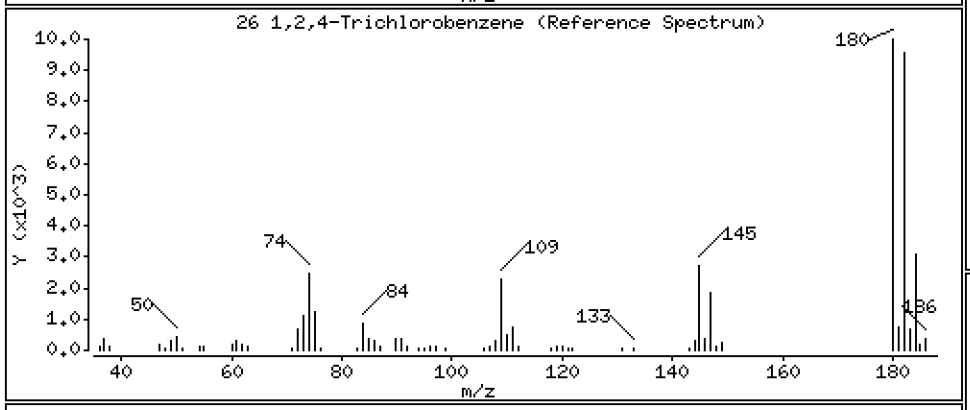
Column diameter: 0.25

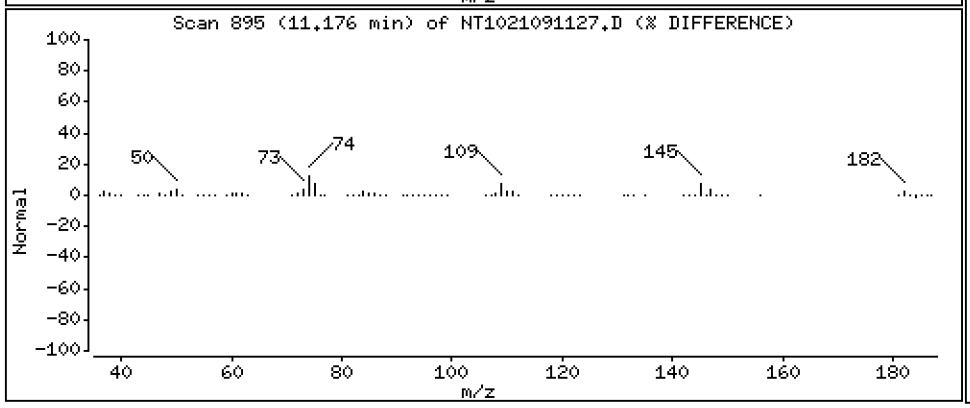
26 1,2,4-Trichlorobenzene

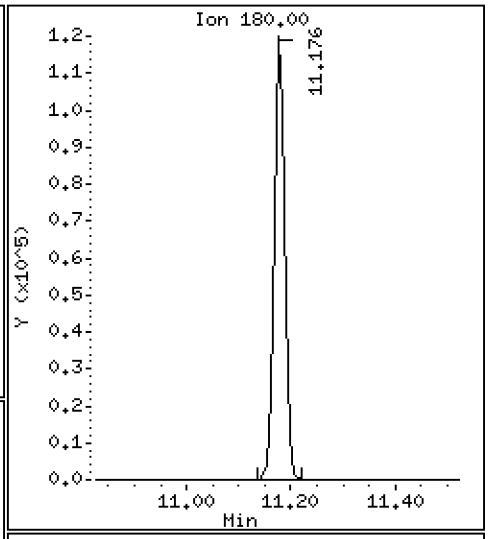
Concentration: 5.020 ug/mL

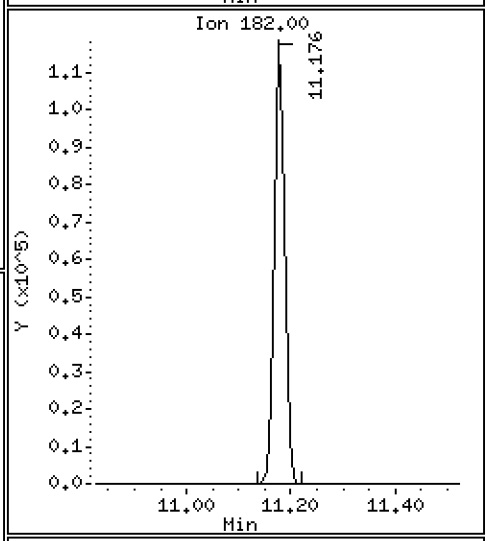


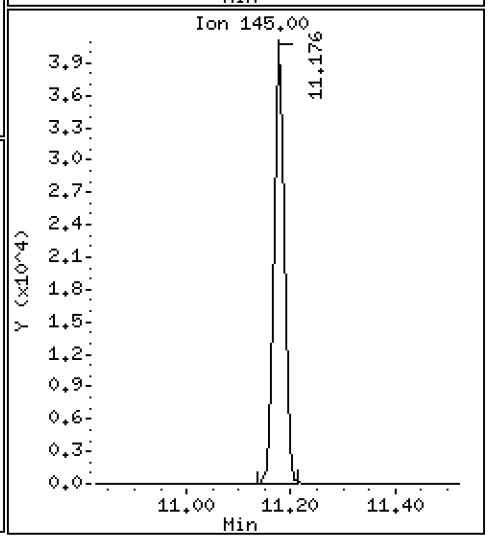












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

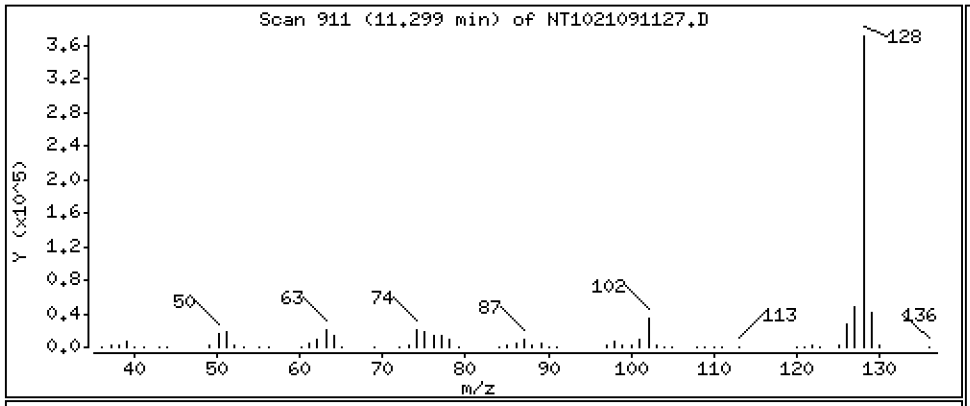
Operator: VTS

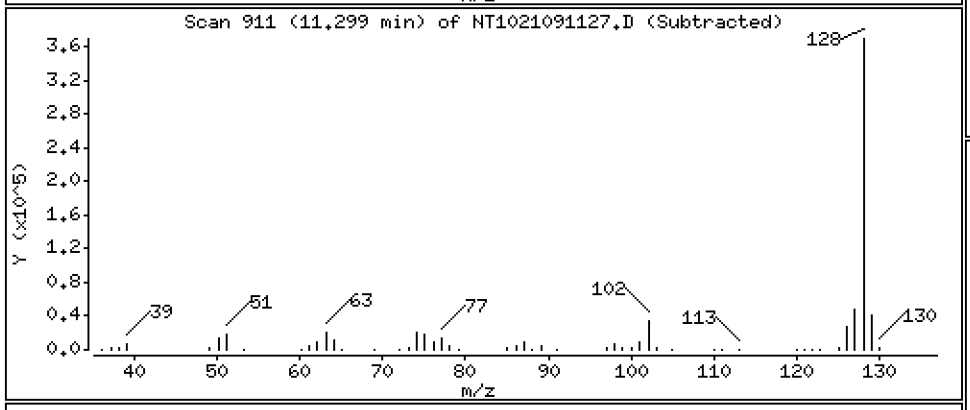
Column phase: ZB-5msi

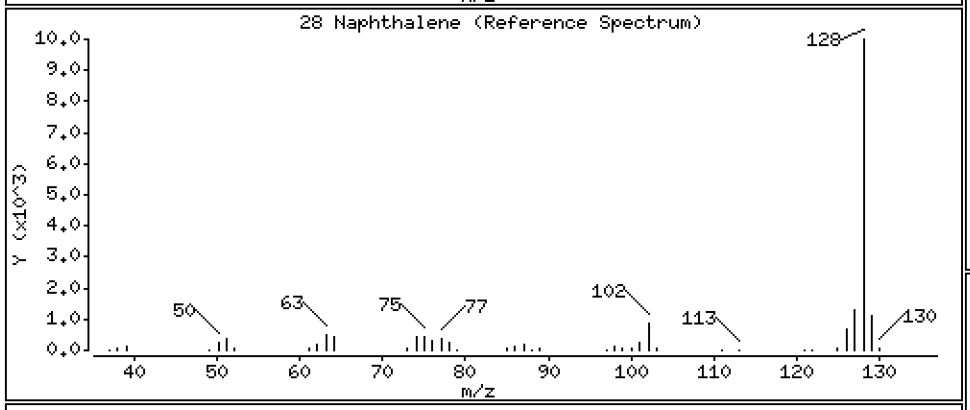
Column diameter: 0.25

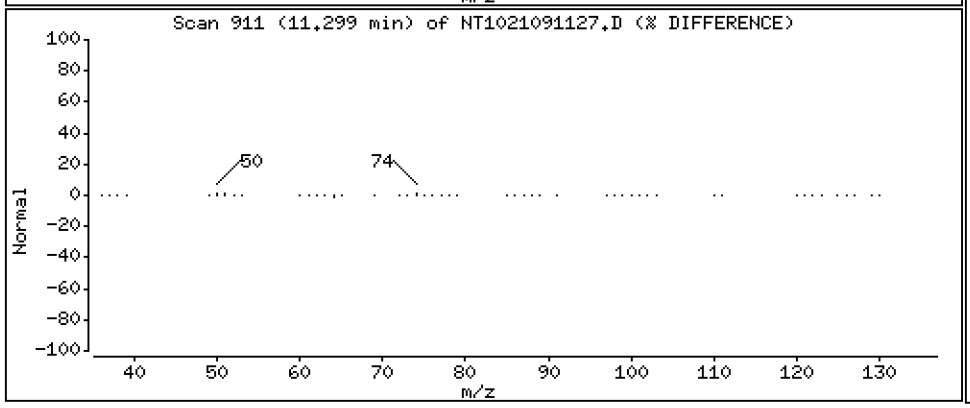
28 Naphthalene

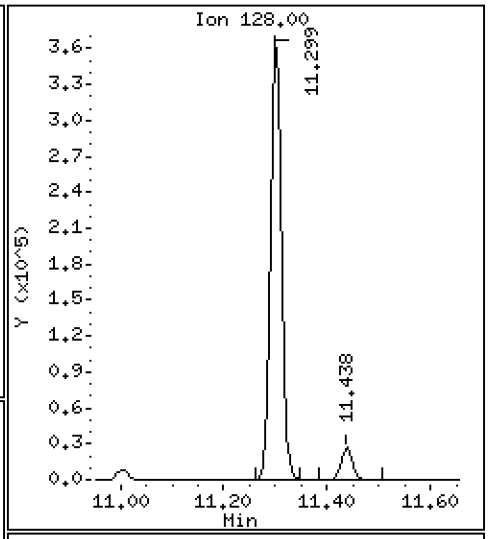
Concentration: 5.421 ug/mL

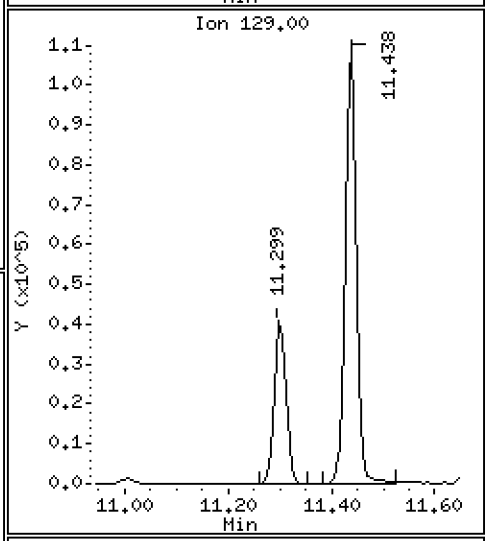


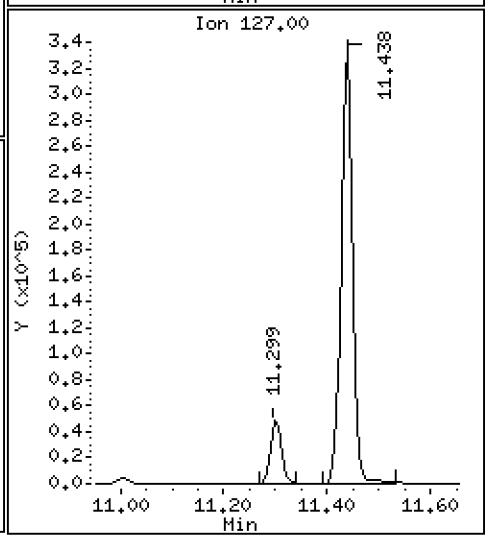












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

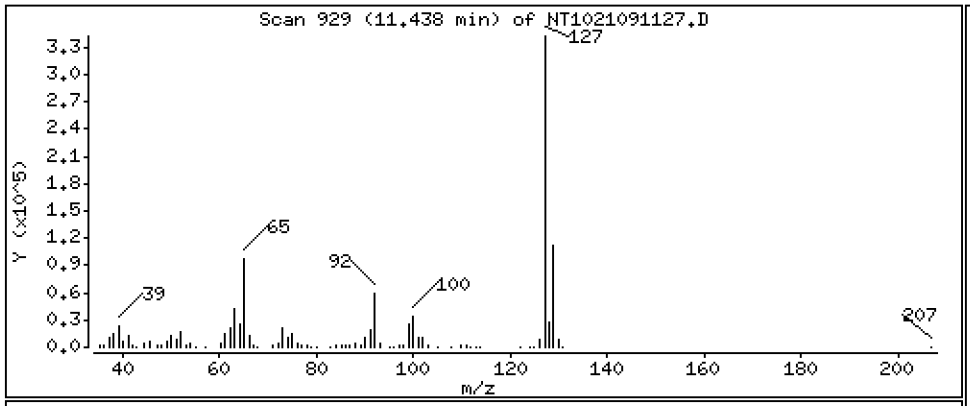
Operator: VTS

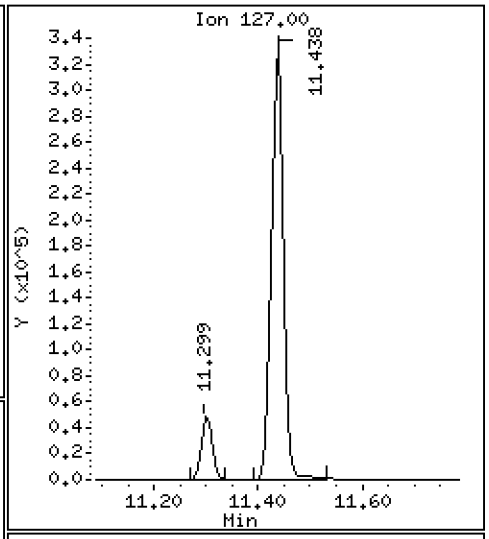
Column phase: ZB-5msi

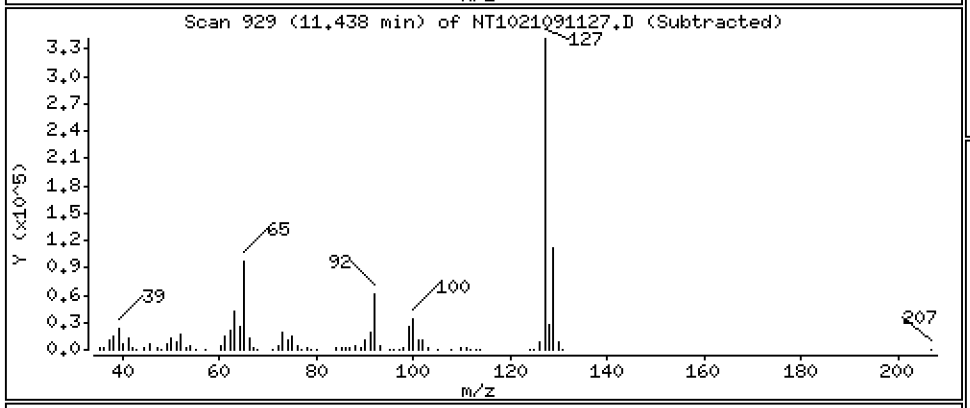
Column diameter: 0.25

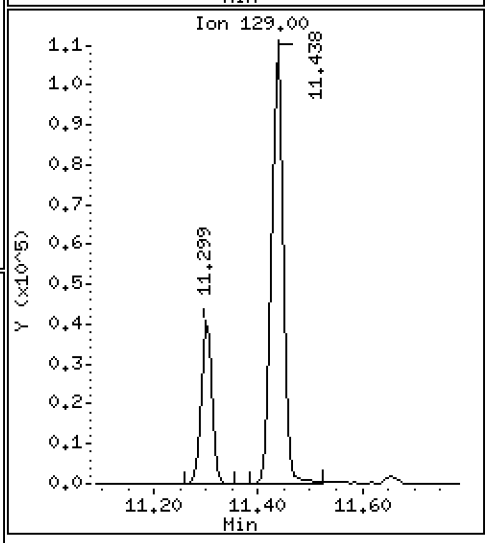
29 4-Chloroaniline

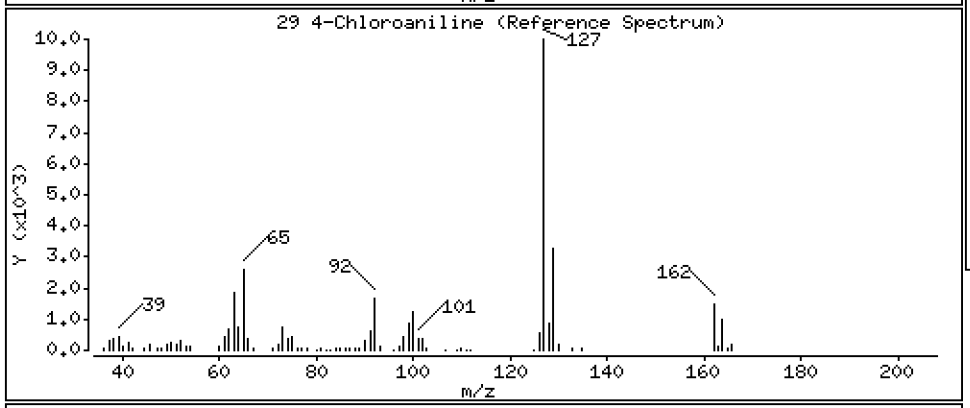
Concentration: 10.28 ug/mL

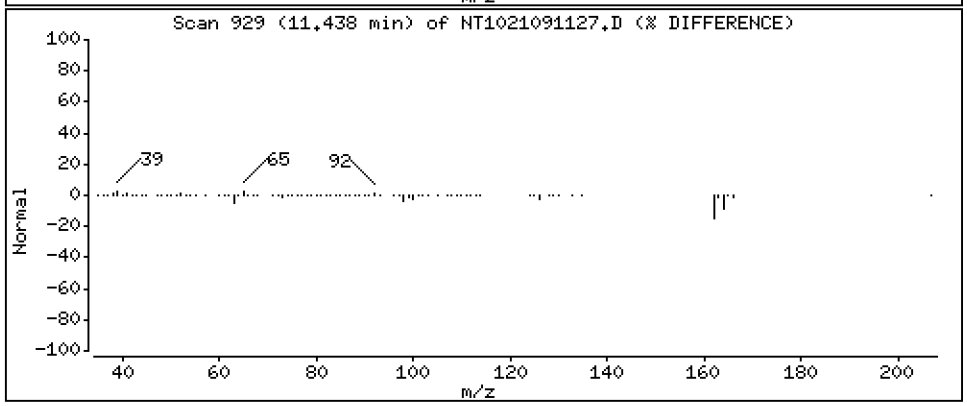












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

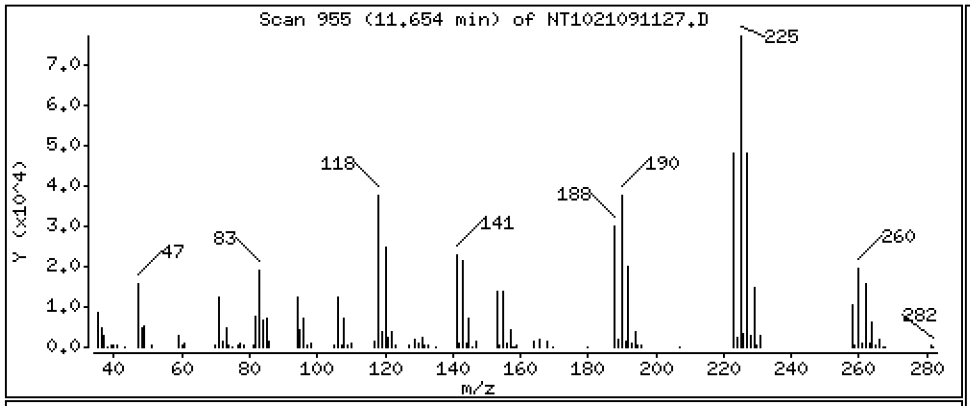
Operator: VTS

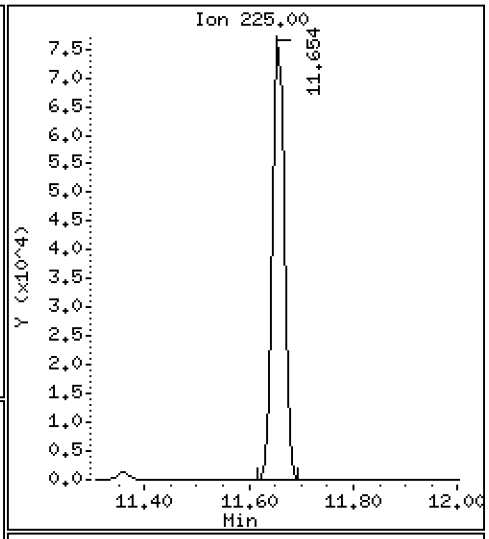
Column phase: ZB-5msi

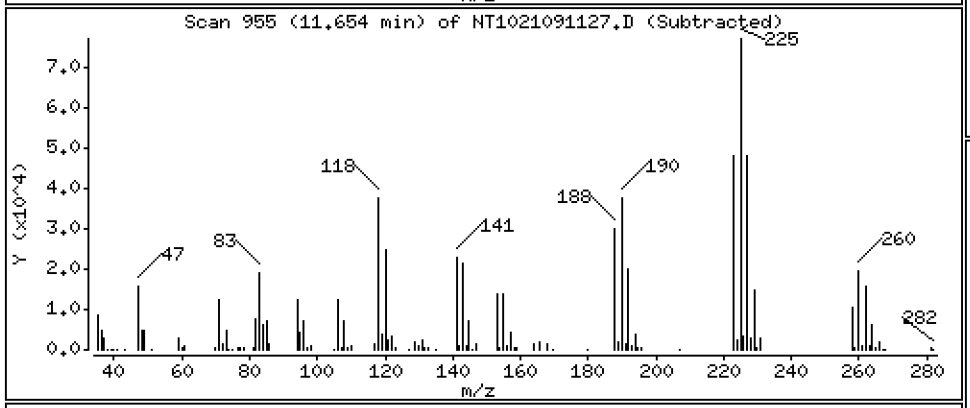
Column diameter: 0.25

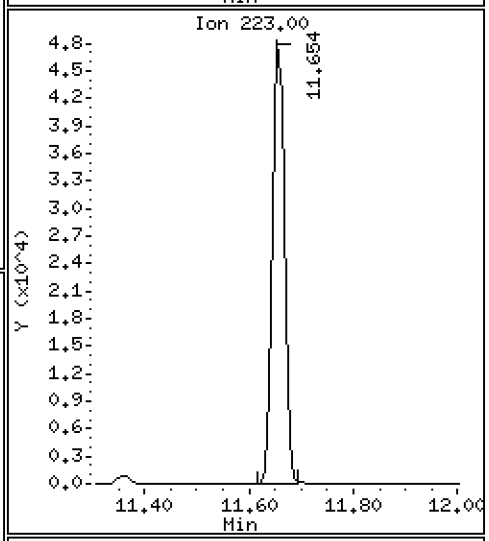
30 Hexachlorobutadiene

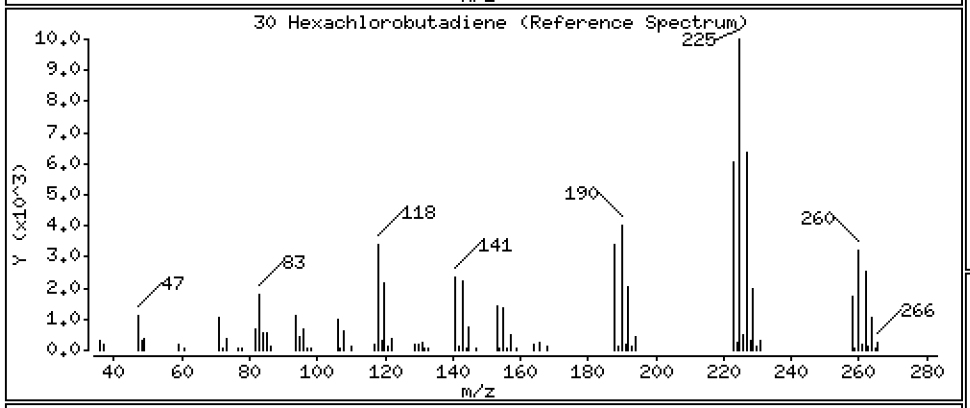
Concentration: 5.944 ug/mL

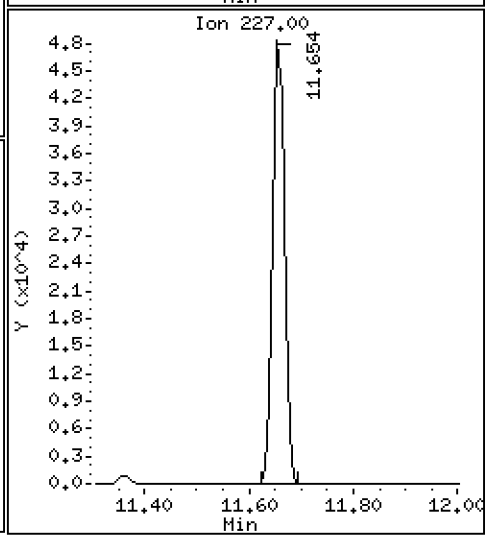


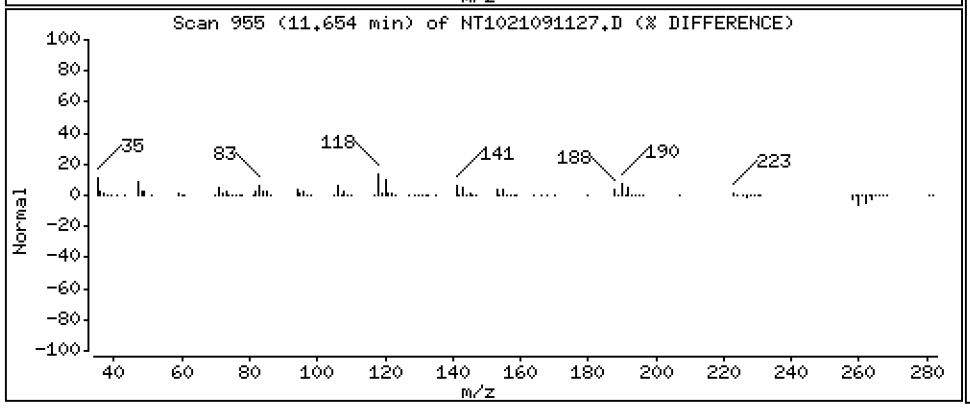












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

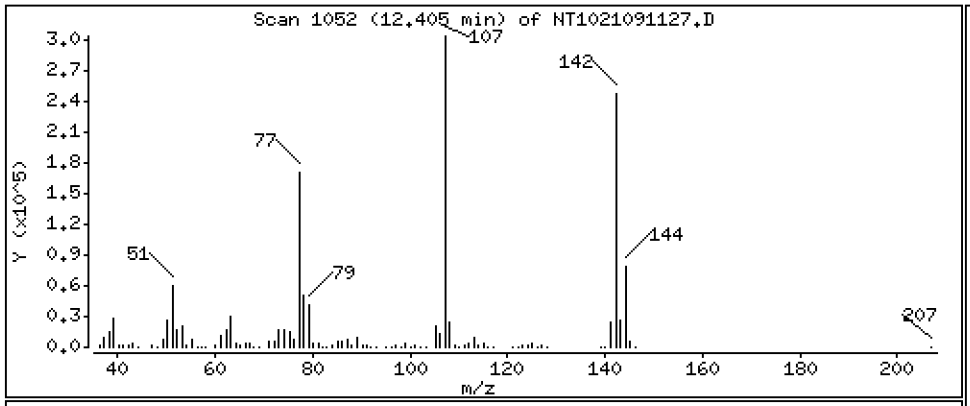
Operator: VTS

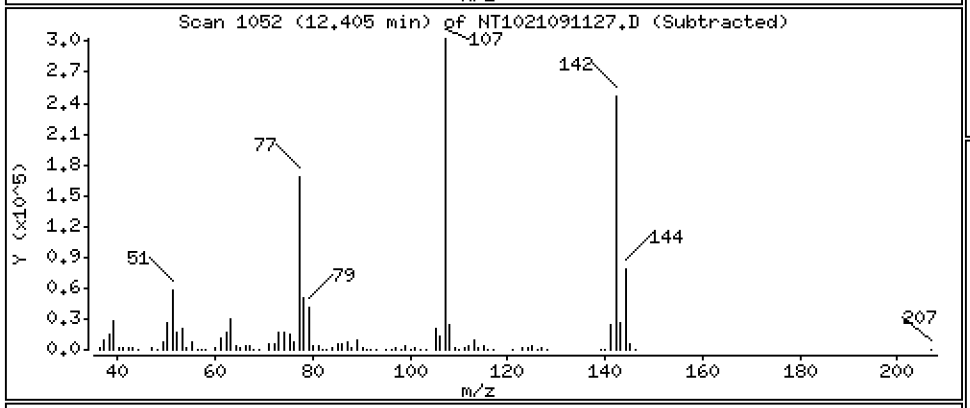
Column phase: ZB-5msi

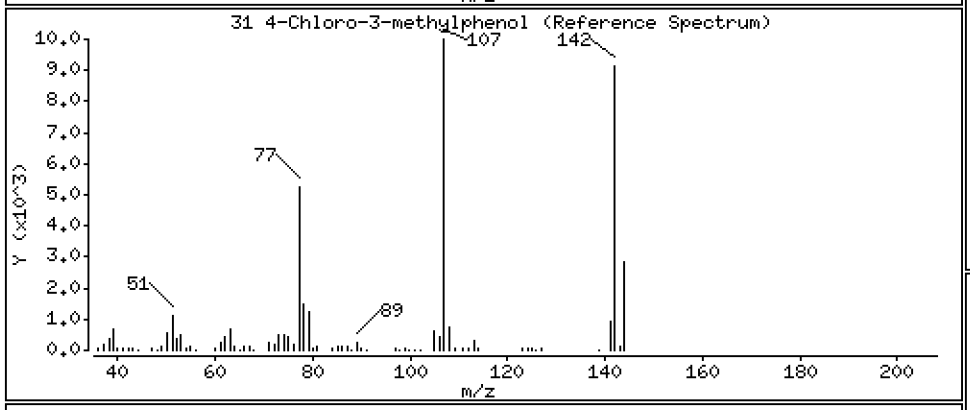
Column diameter: 0.25

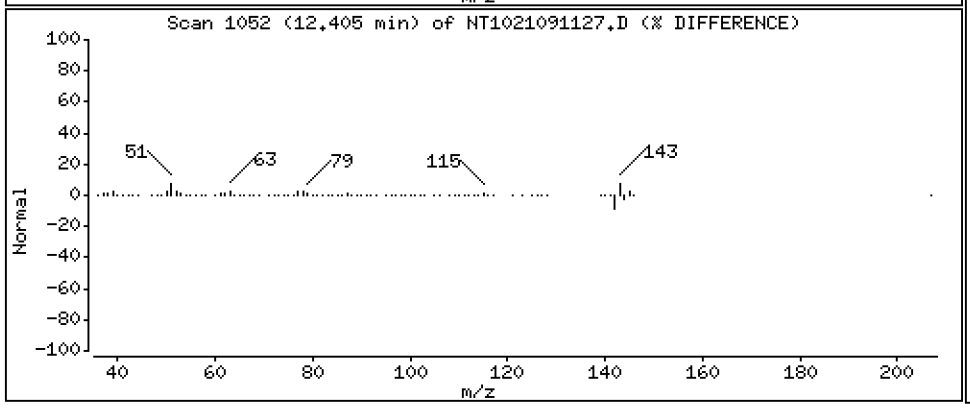
31 4-Chloro-3-methylphenol

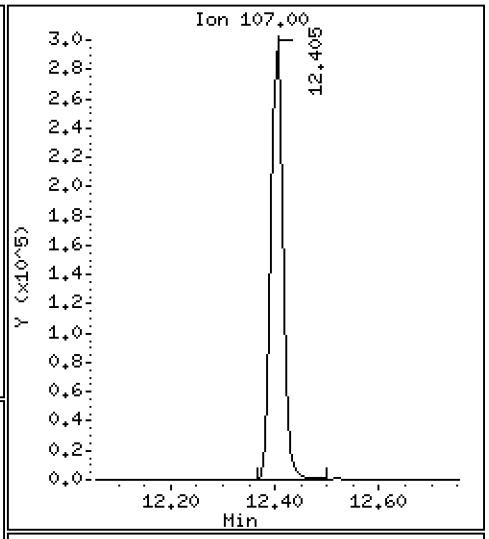
Concentration: 12.48 ug/mL

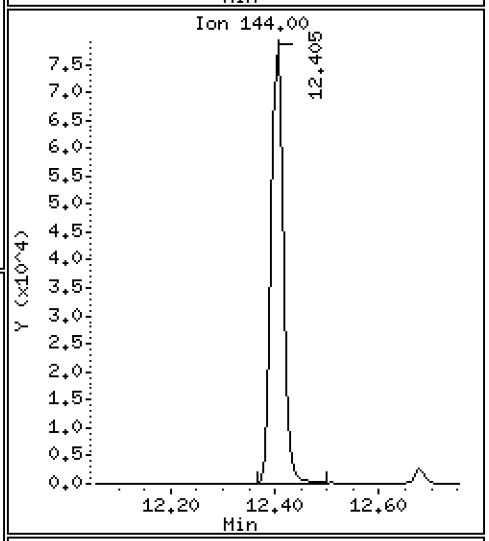


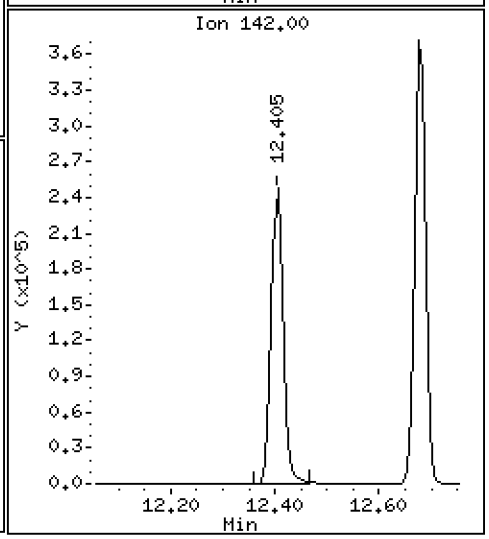












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

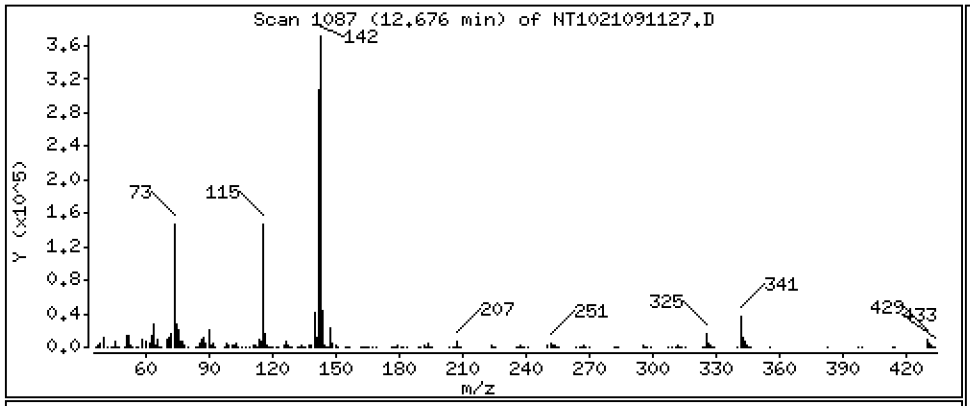
Operator: VTS

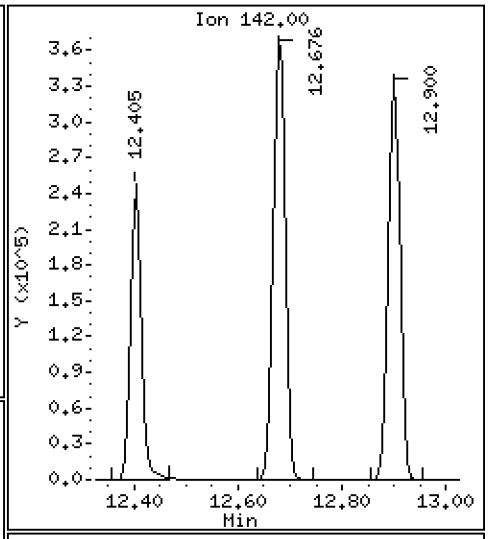
Column phase: ZB-5msi

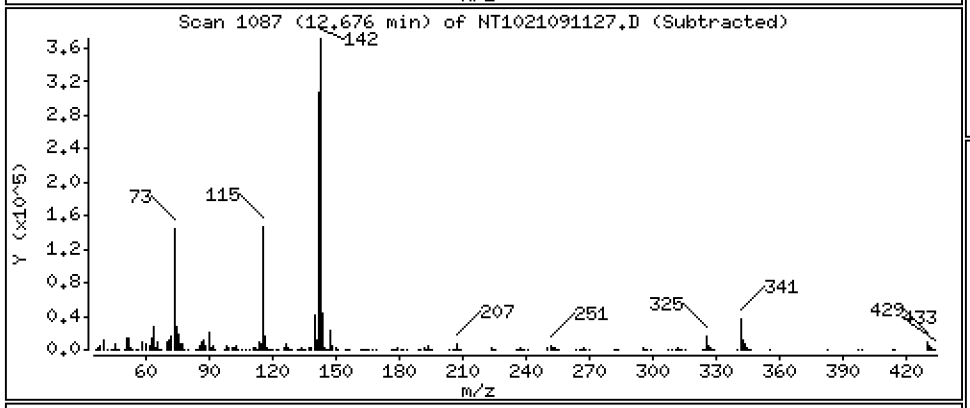
Column diameter: 0.25

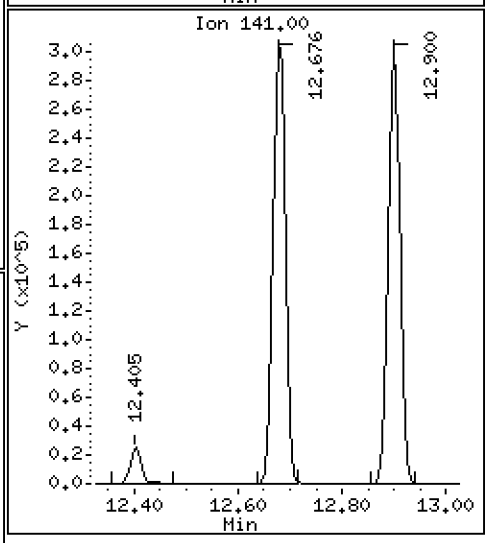
32 2-Methylnaphthalene

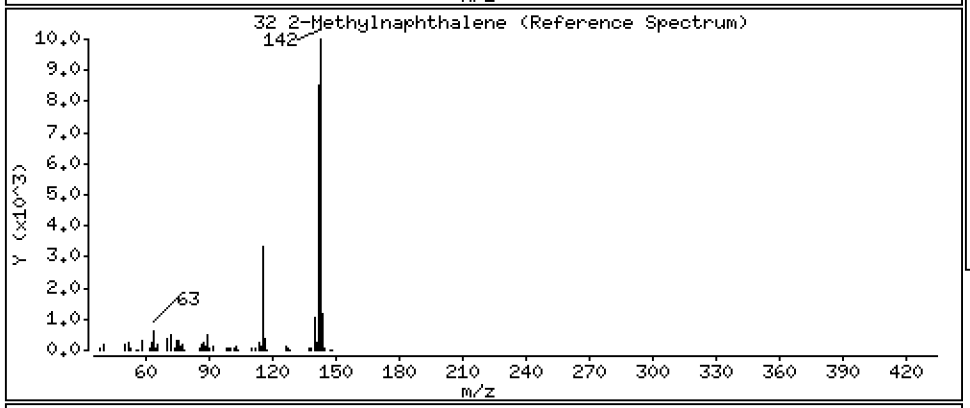
Concentration: 5.765 ug/mL

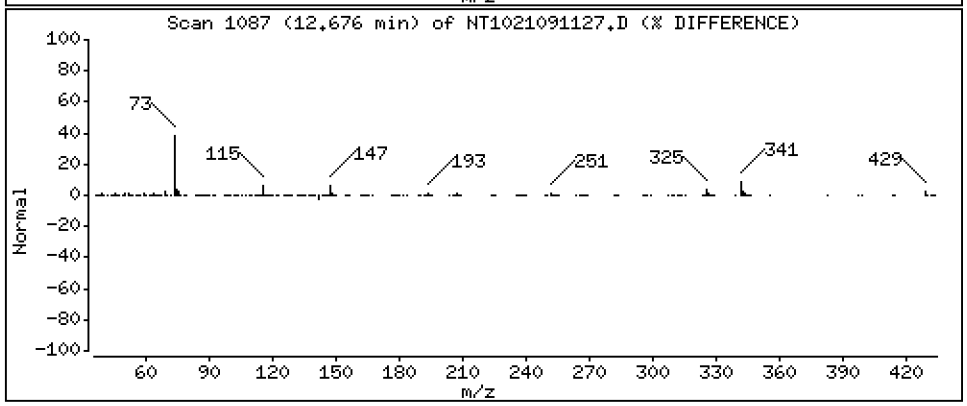












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

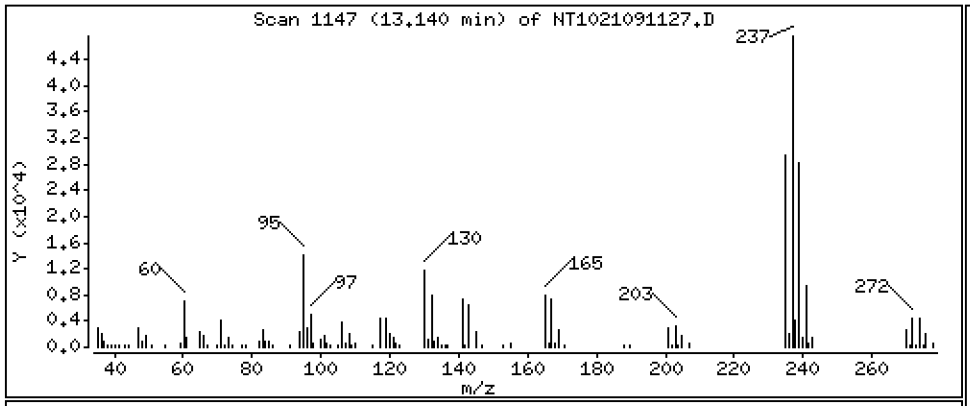
Operator: VTS

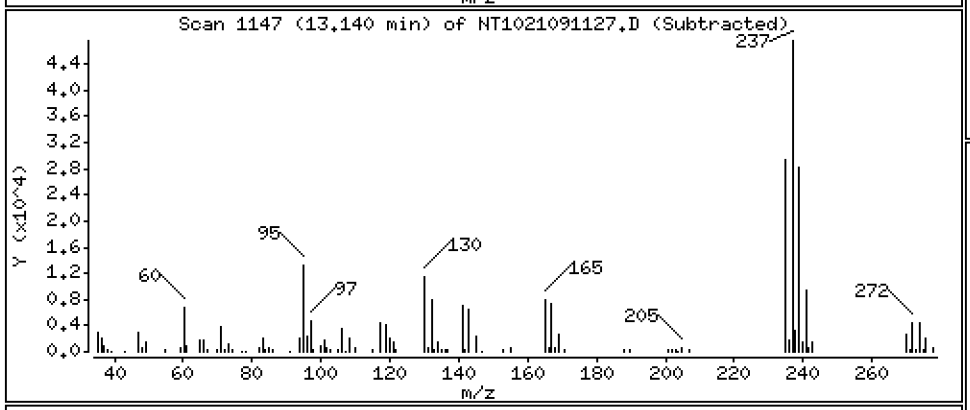
Column phase: ZB-5msi

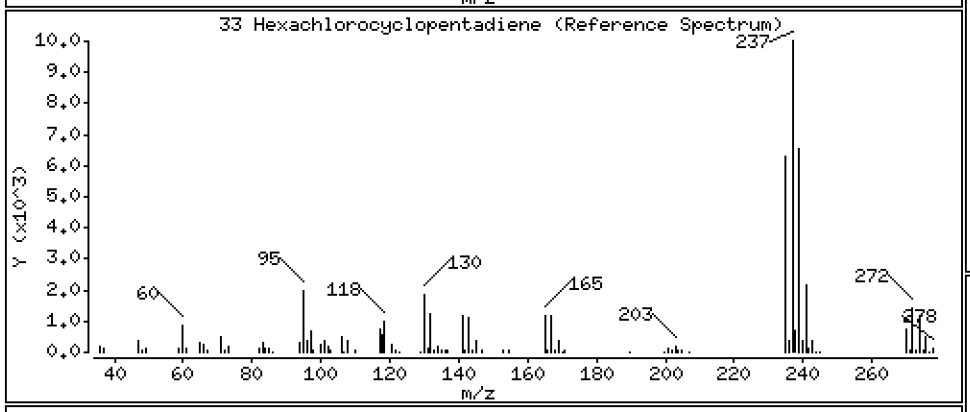
Column diameter: 0.25

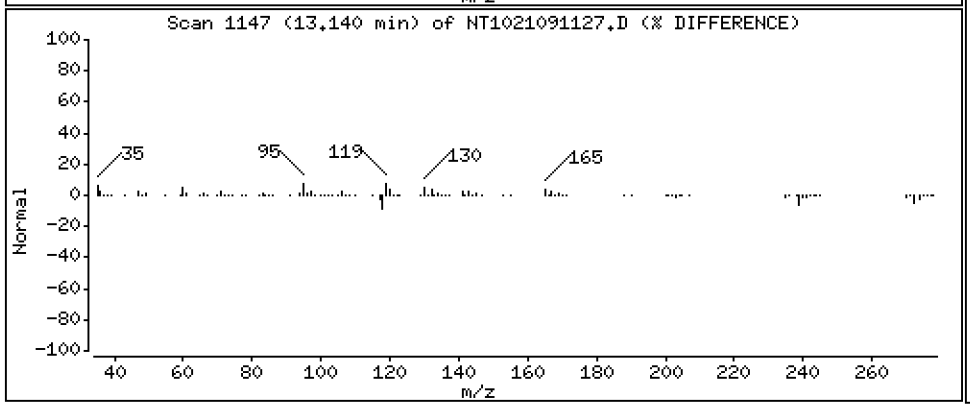
33 Hexachlorocyclopentadiene

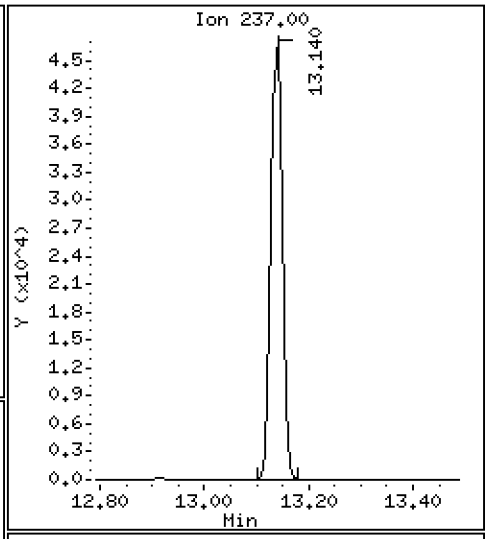
Concentration: 4.036 ug/mL

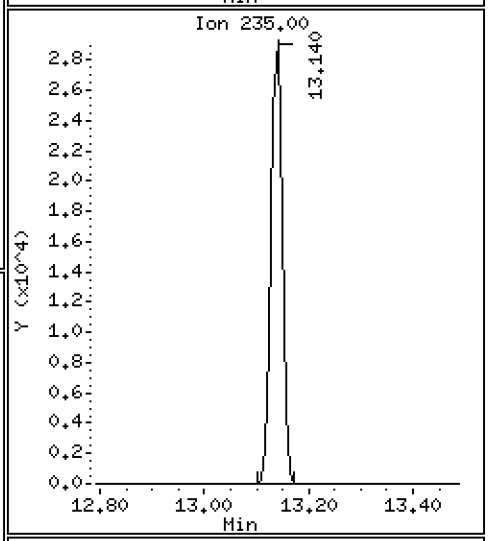


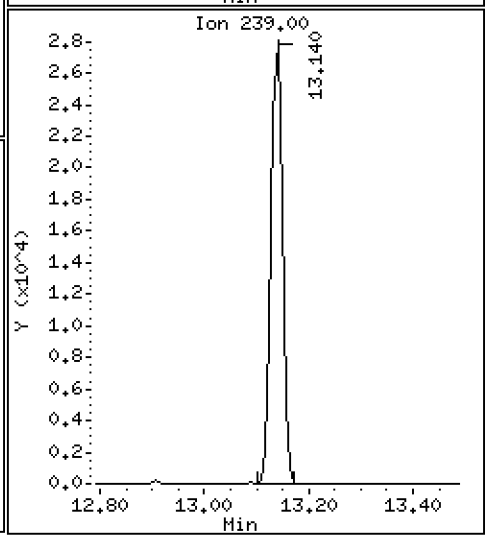












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

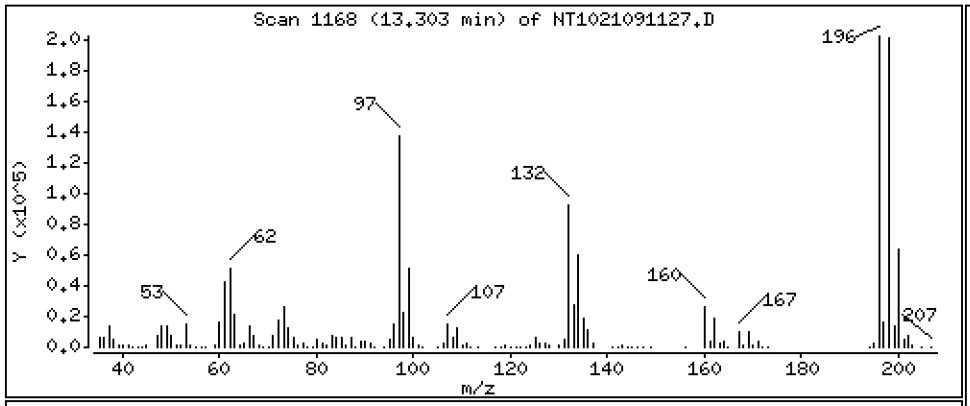
Operator: VTS

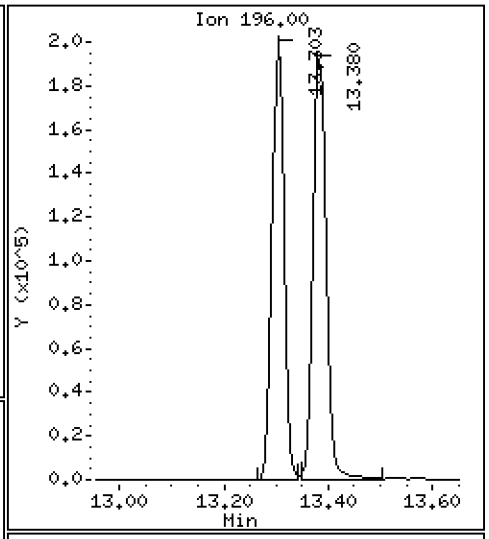
Column phase: ZB-5msi

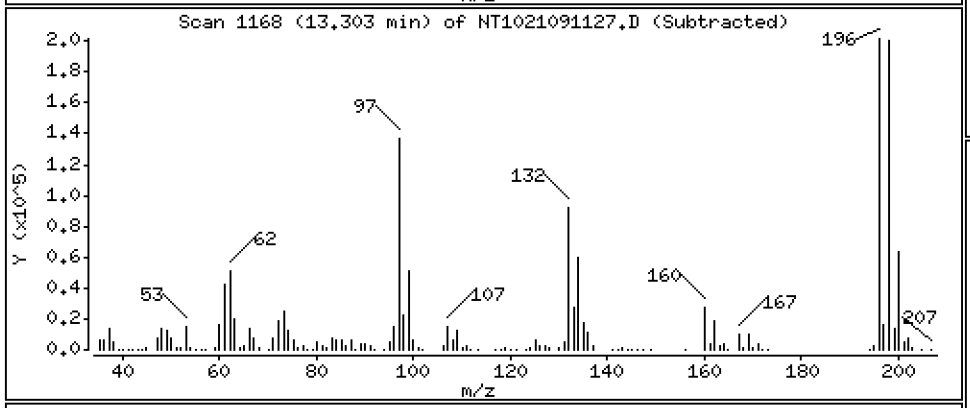
Column diameter: 0.25

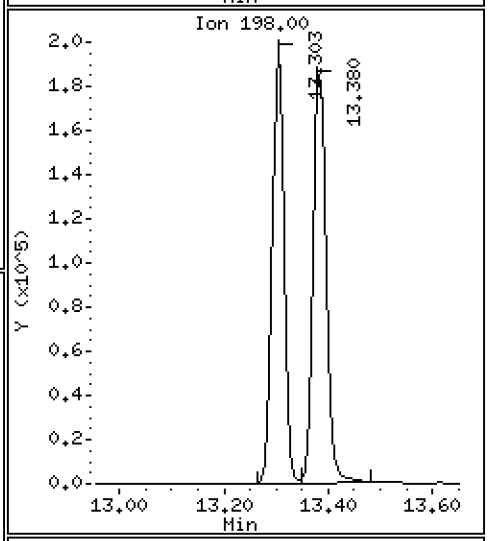
34 2,4,6-Trichlorophenol

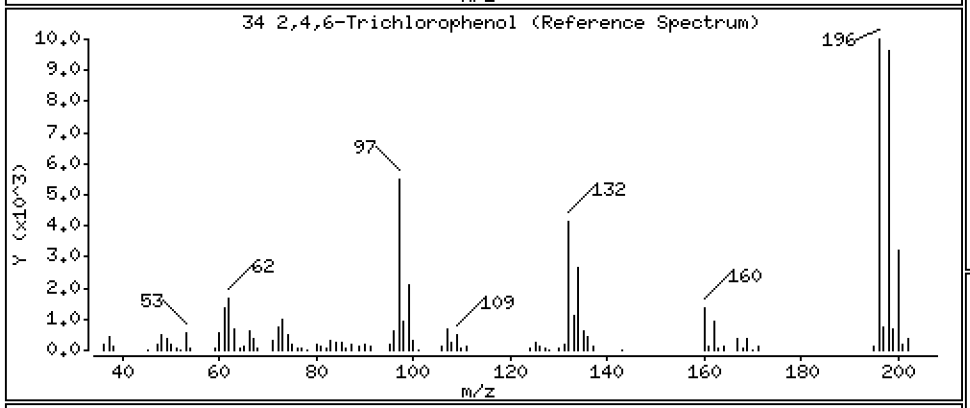
Concentration: 12.88 ug/mL

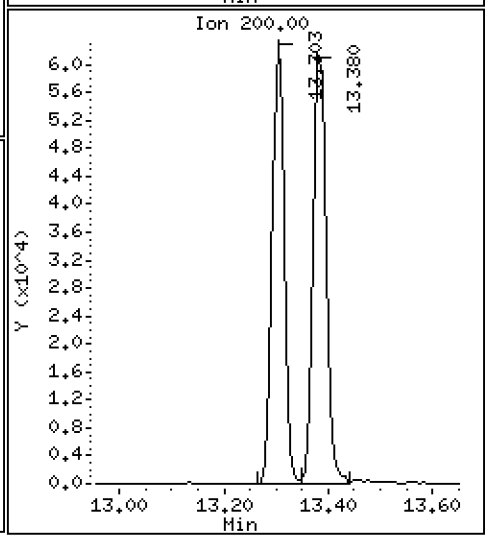


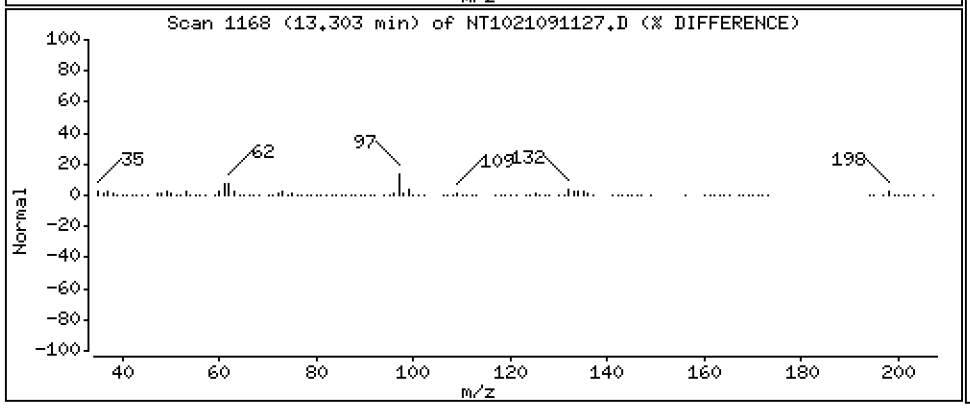












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

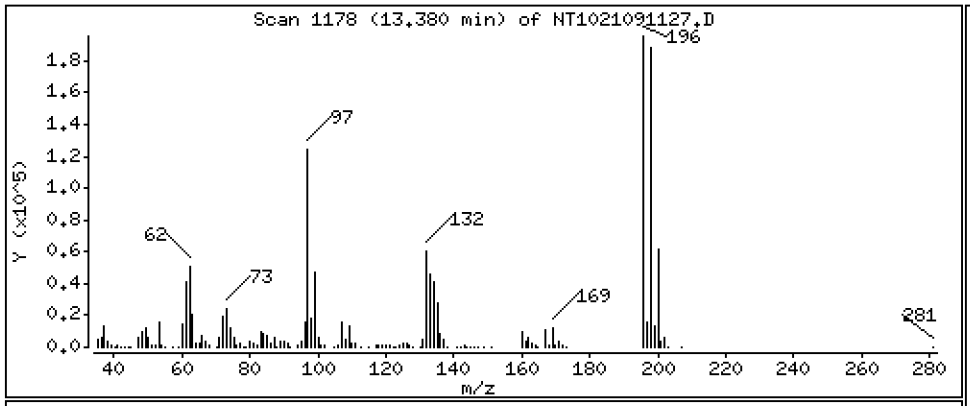
Operator: VTS

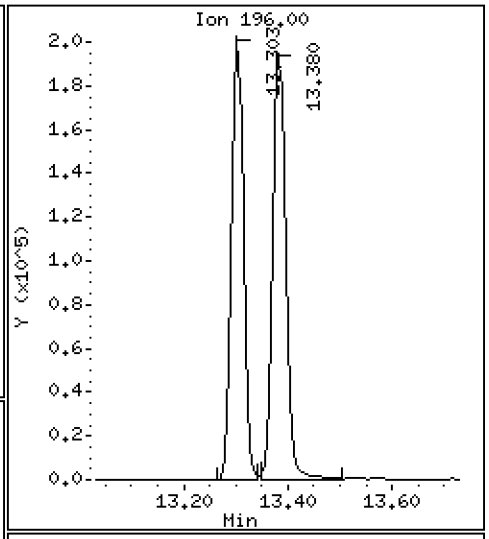
Column phase: ZB-5msi

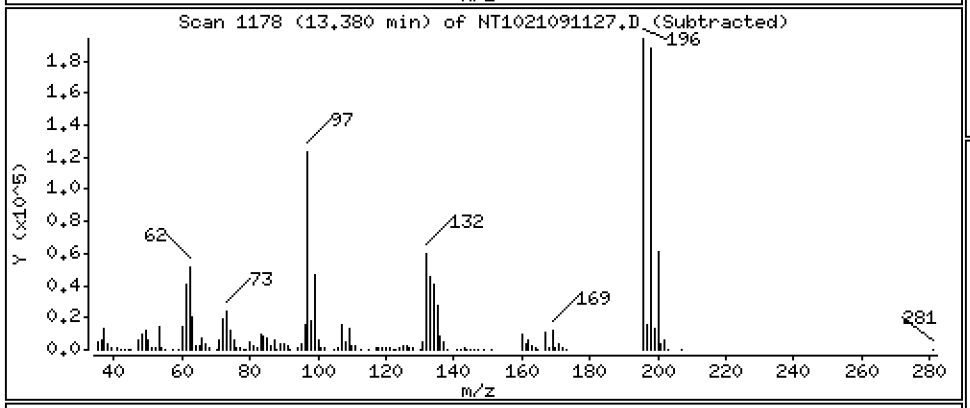
Column diameter: 0.25

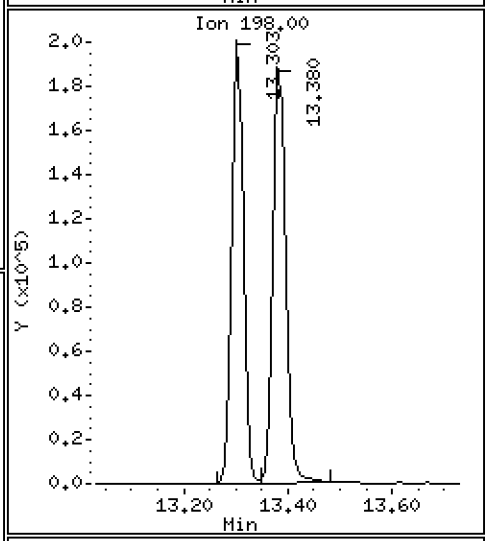
35 2,4,5-Trichlorophenol

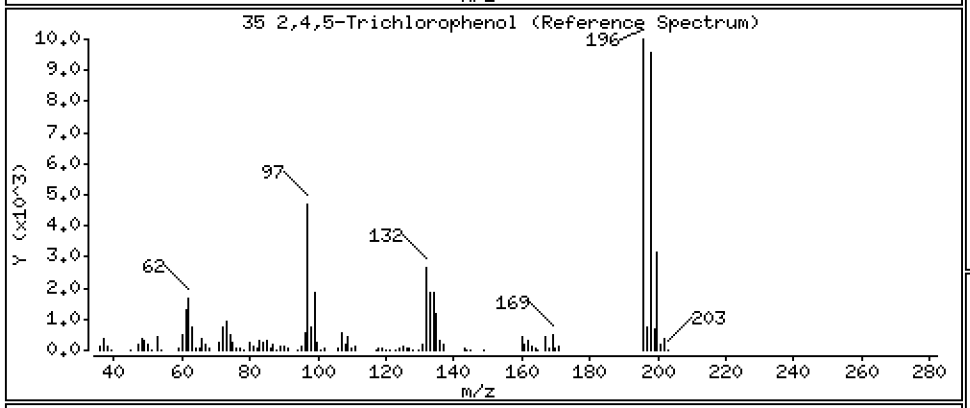
Concentration: 13.00 ug/mL

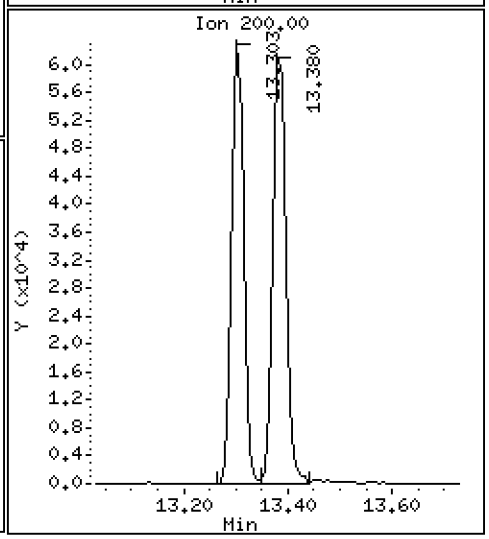


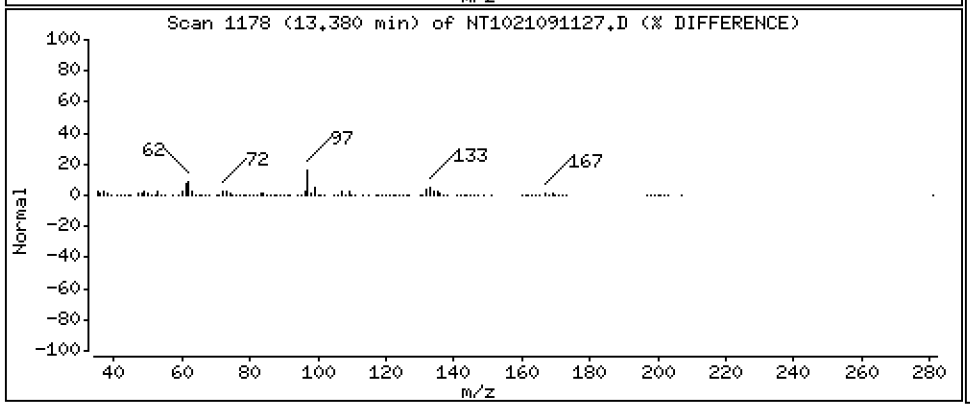












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

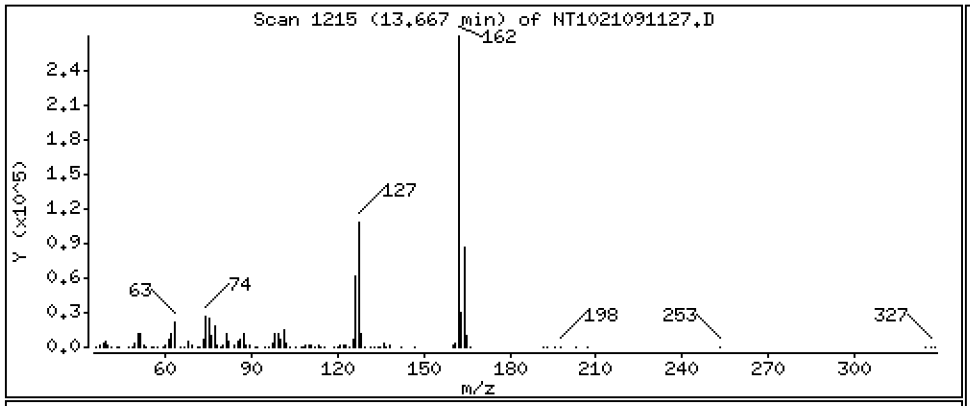
Operator: VTS

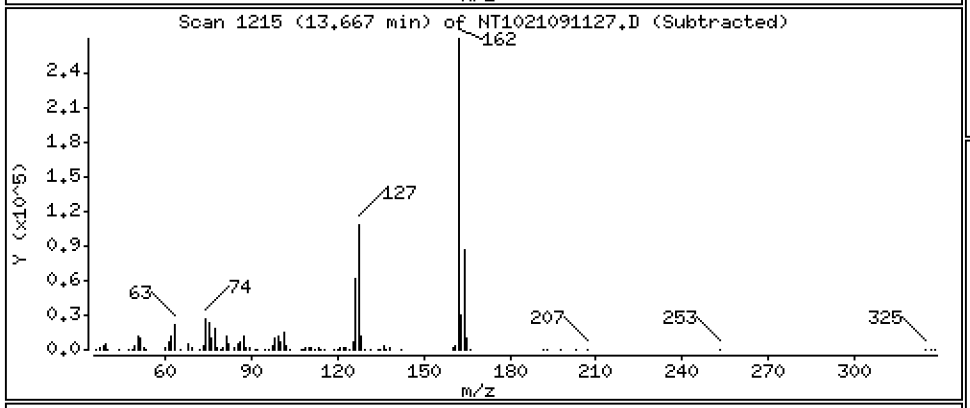
Column phase: ZB-5msi

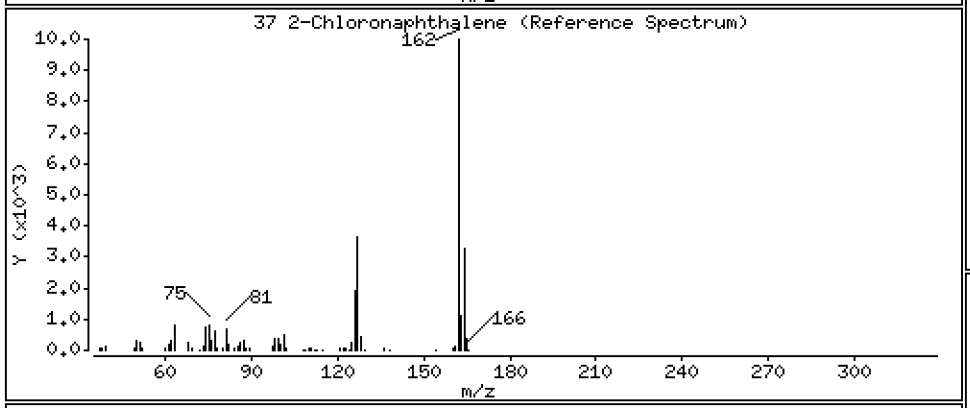
Column diameter: 0.25

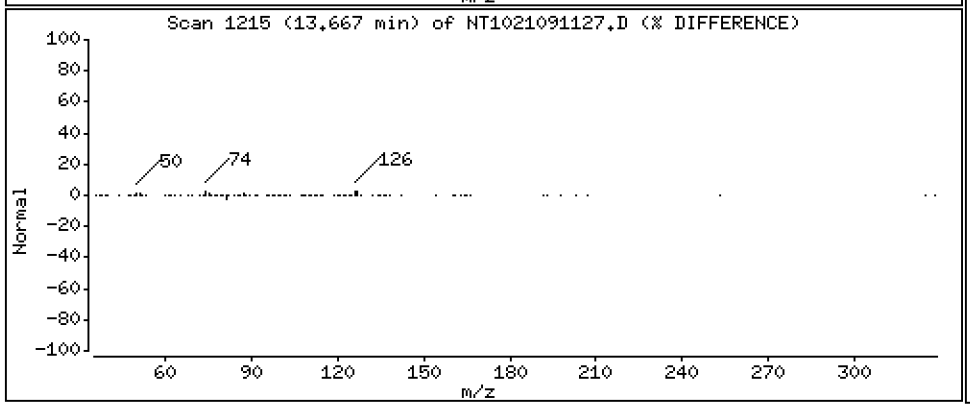
37 2-Chloronaphthalene

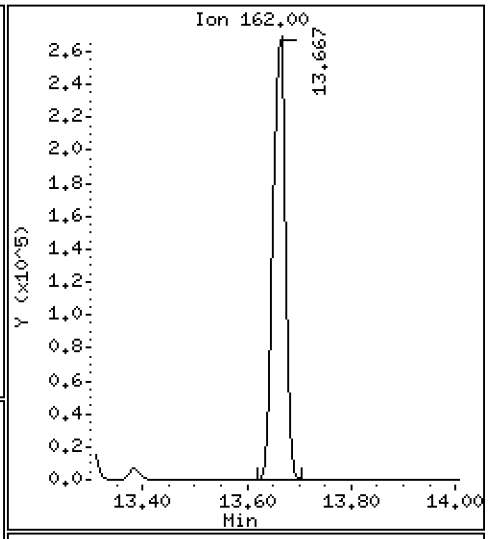
Concentration: 5.755 ug/mL

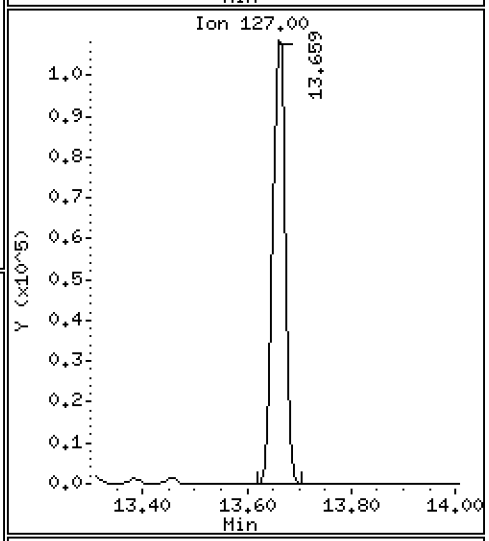


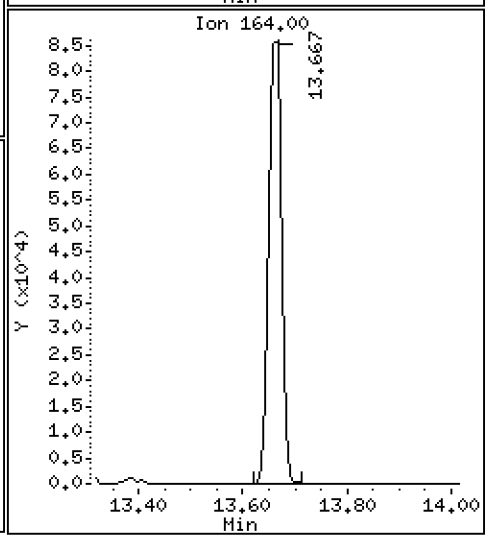












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

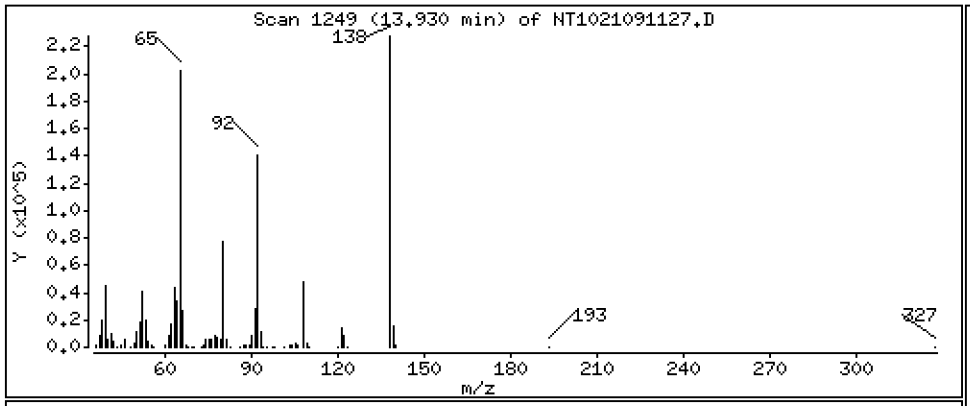
Operator: VTS

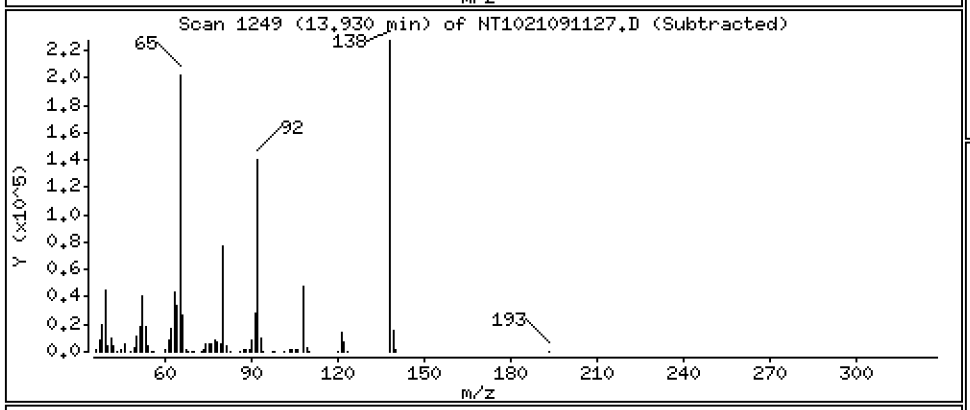
Column phase: ZB-5msi

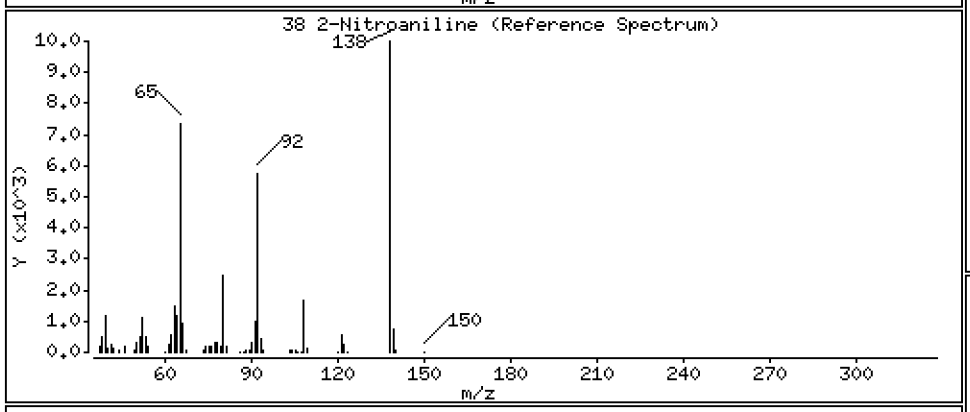
Column diameter: 0.25

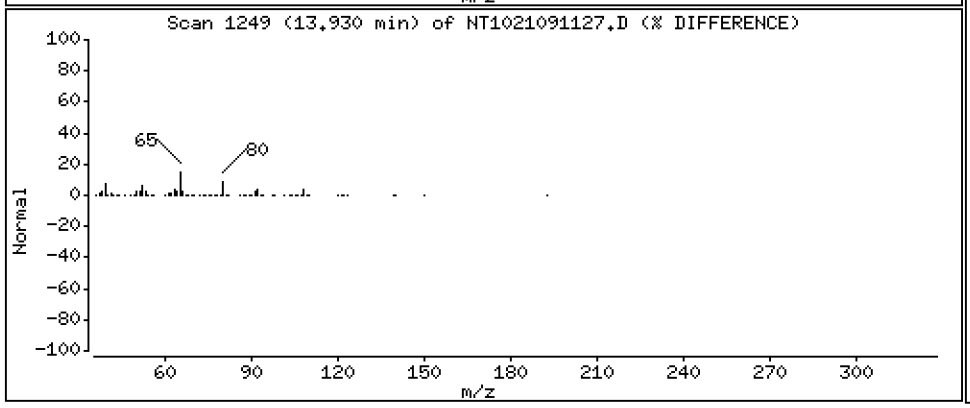
38 2-Nitroaniline

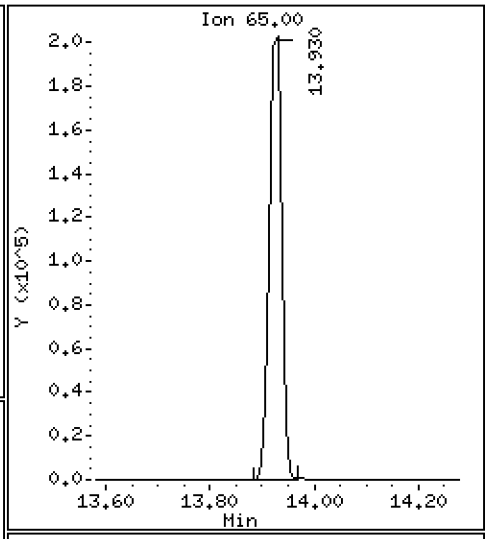
Concentration: 14.42 ug/mL

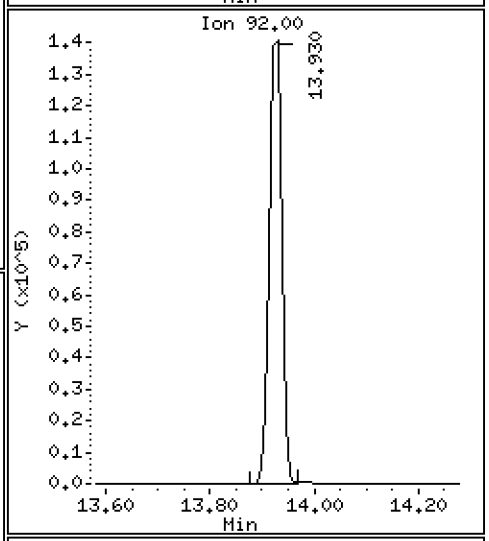


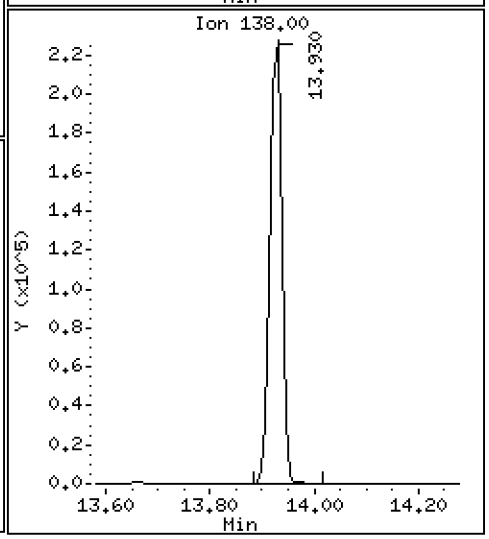












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

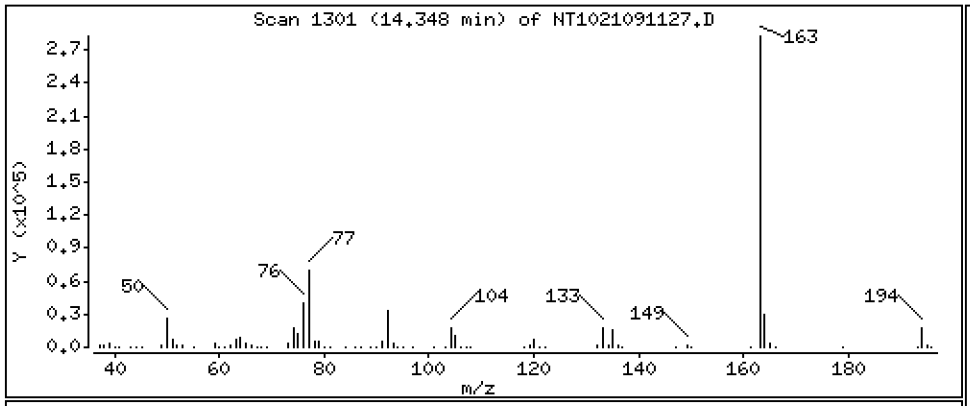
Operator: VTS

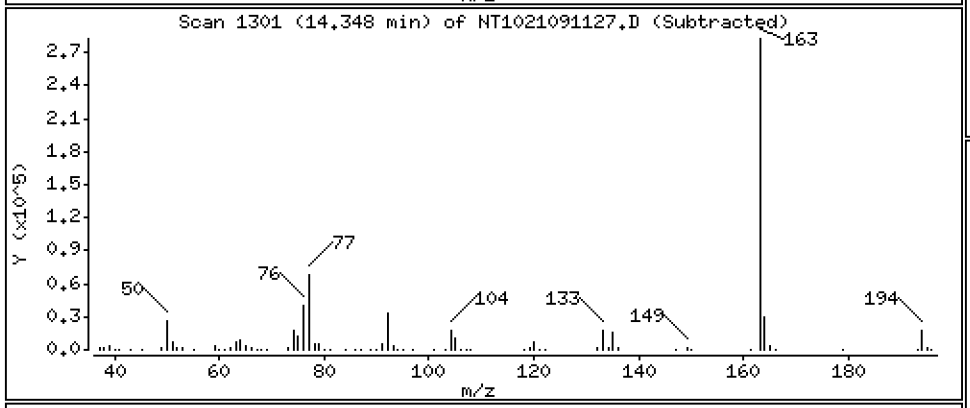
Column phase: ZB-5msi

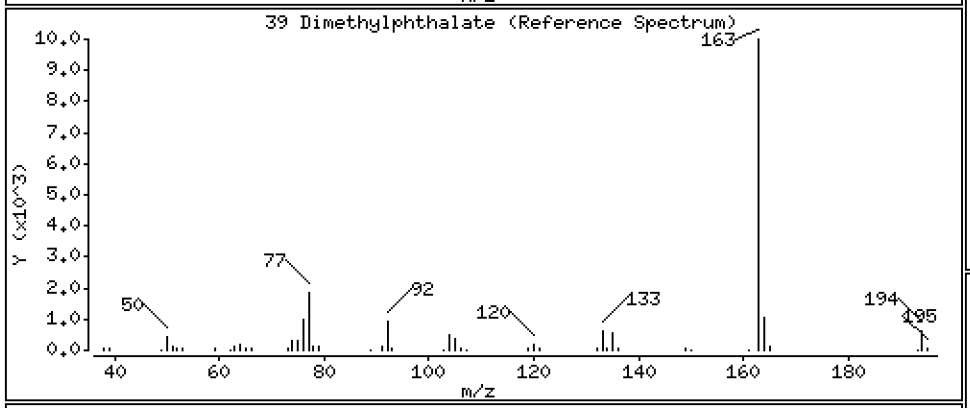
Column diameter: 0.25

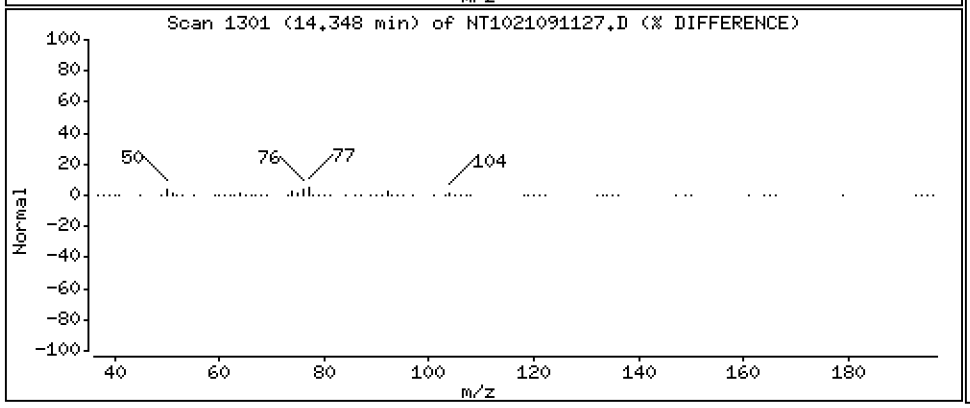
39 Dimethylphthalate

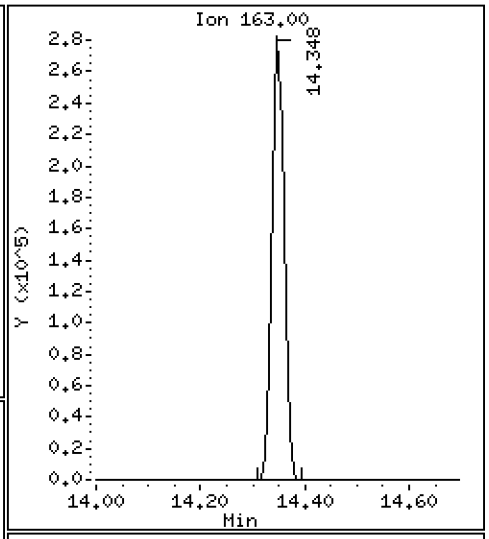
Concentration: 5.650 ug/mL

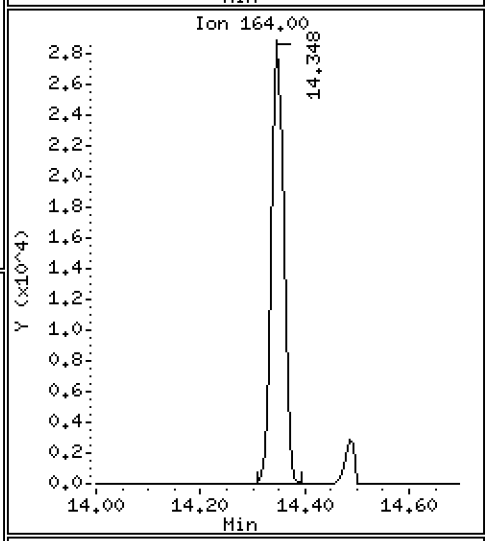


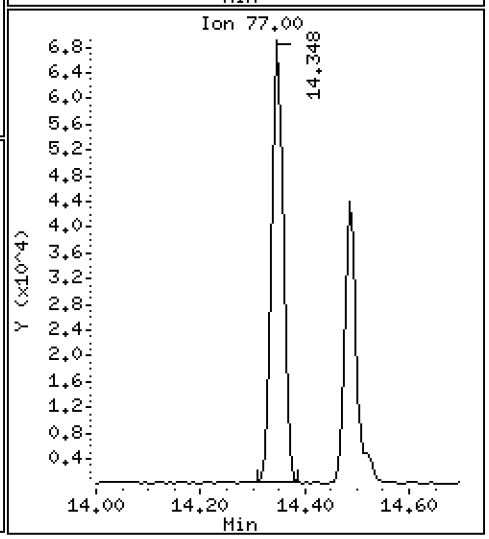












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

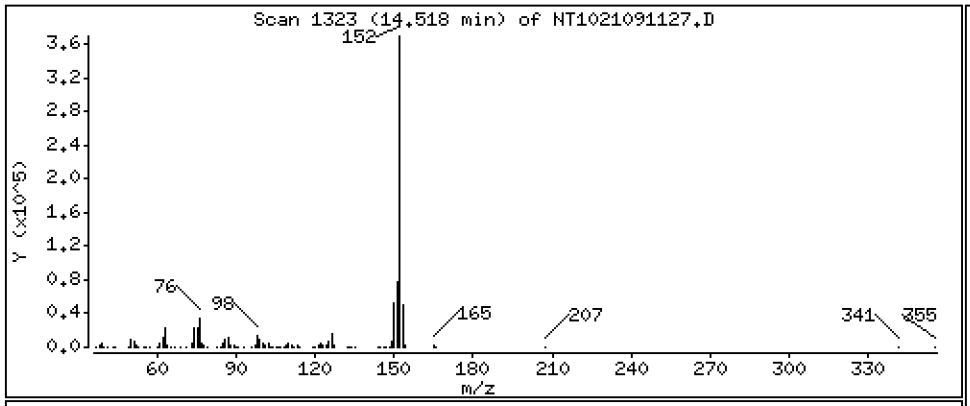
Operator: VTS

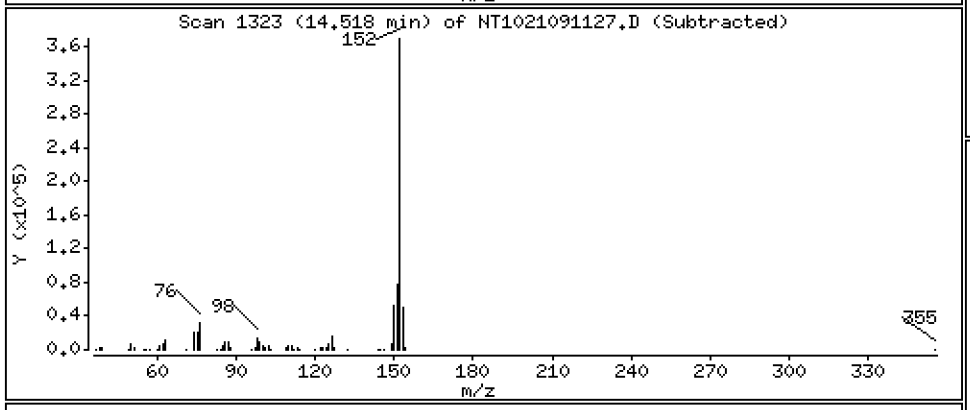
Column phase: ZB-5msi

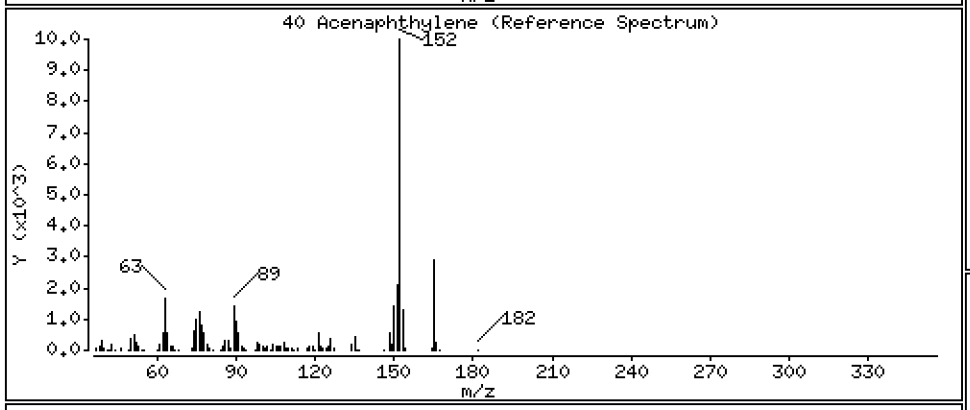
Column diameter: 0.25

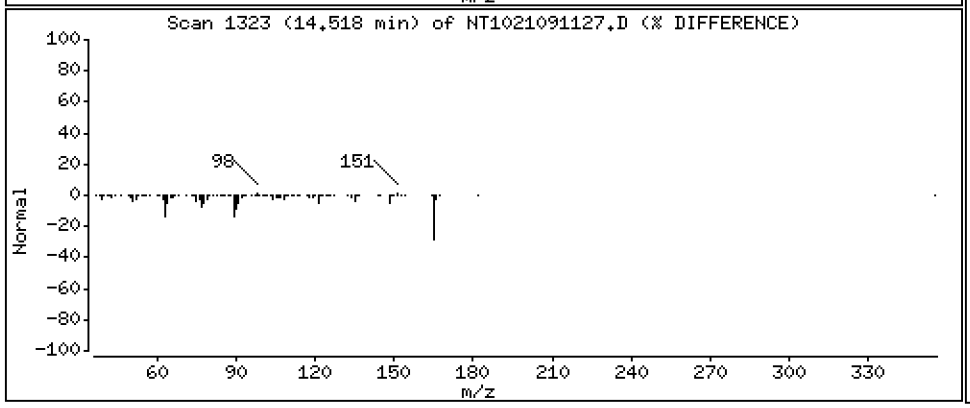
40 Acenaphthylene

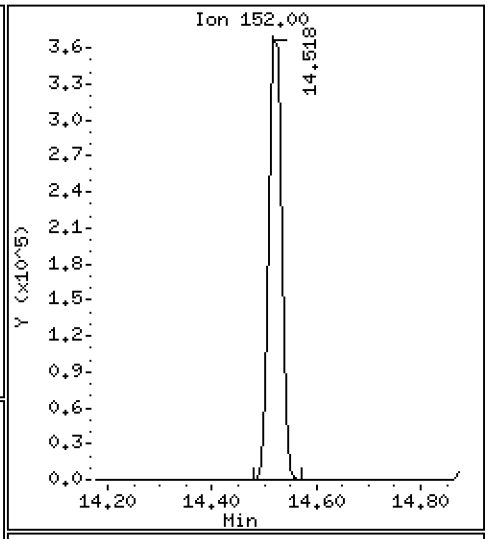
Concentration: 5.168 ug/mL

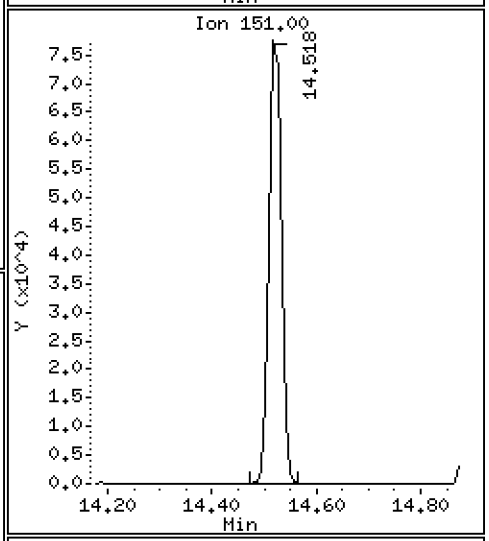


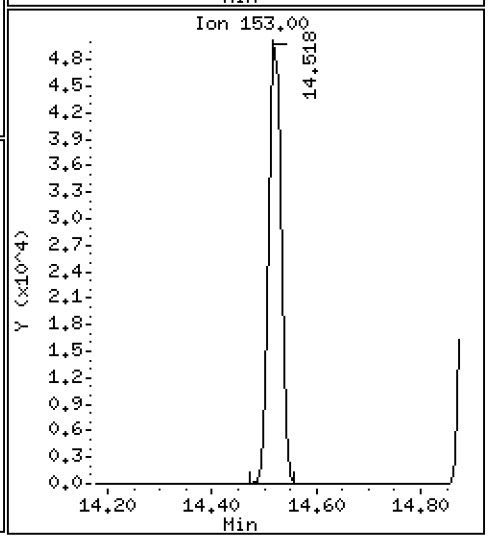












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

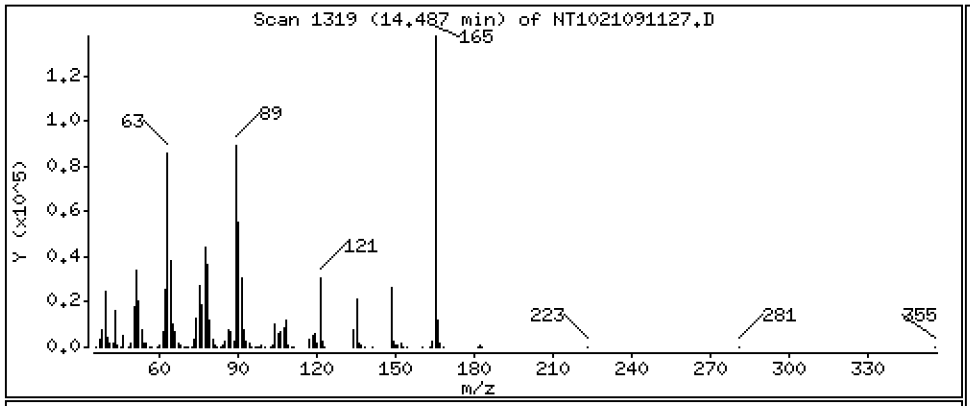
Operator: VTS

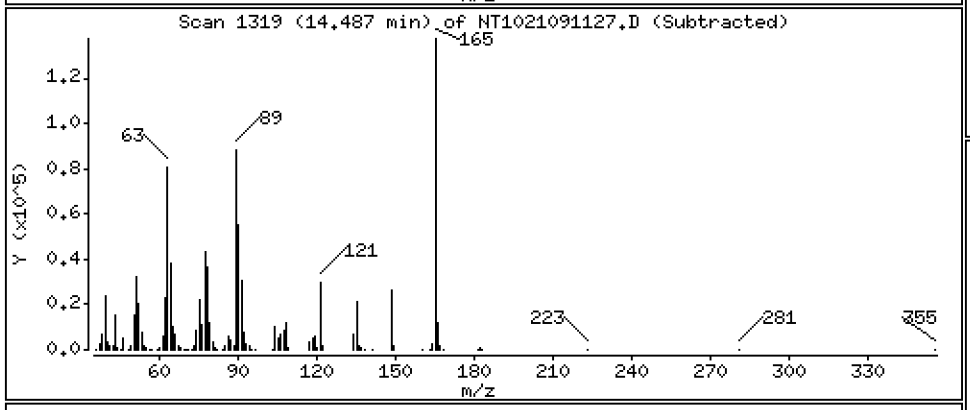
Column phase: ZB-5msi

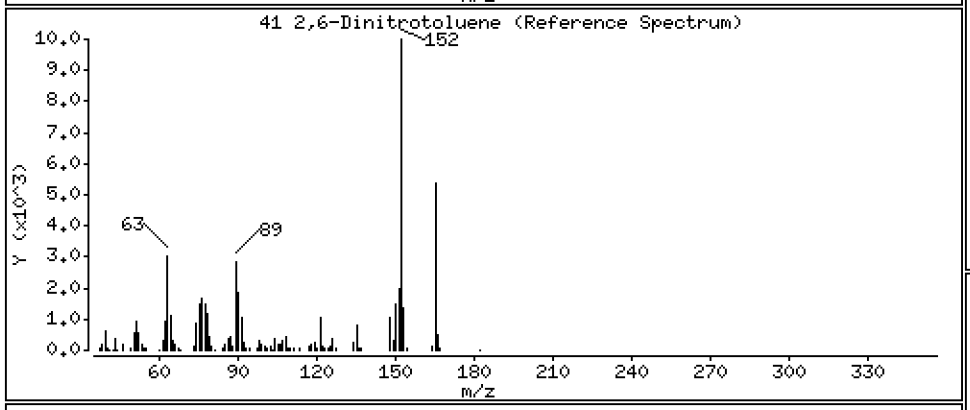
Column diameter: 0.25

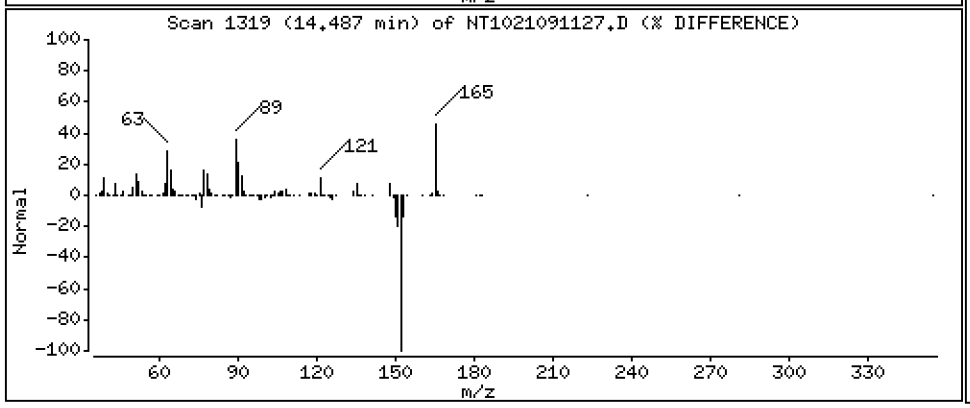
41 2,6-Dinitrotoluene

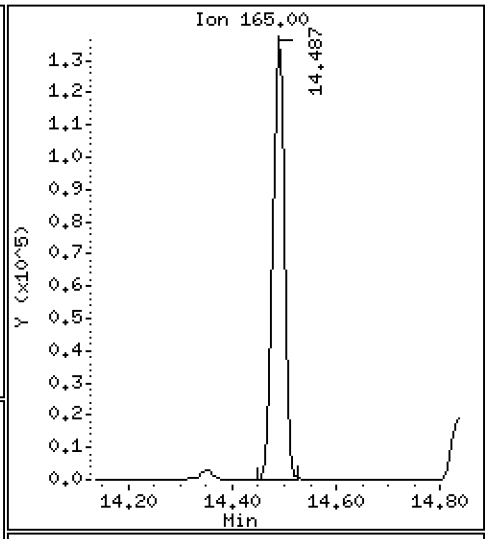
Concentration: 11.80 ug/mL

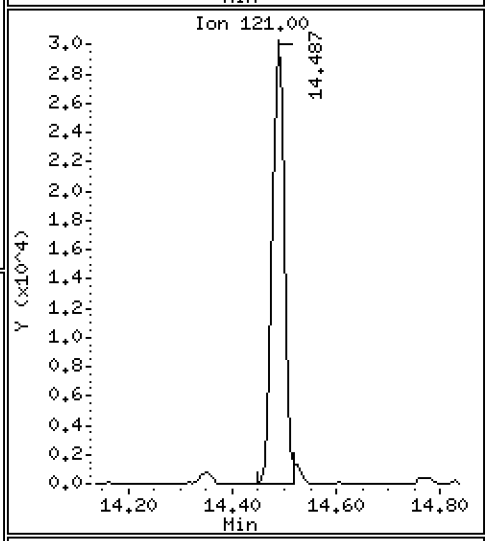


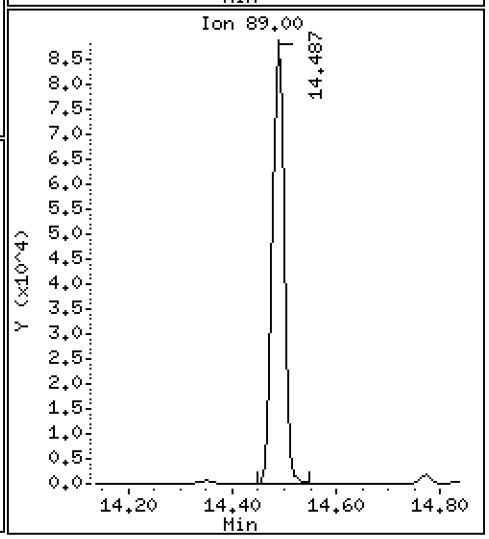












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

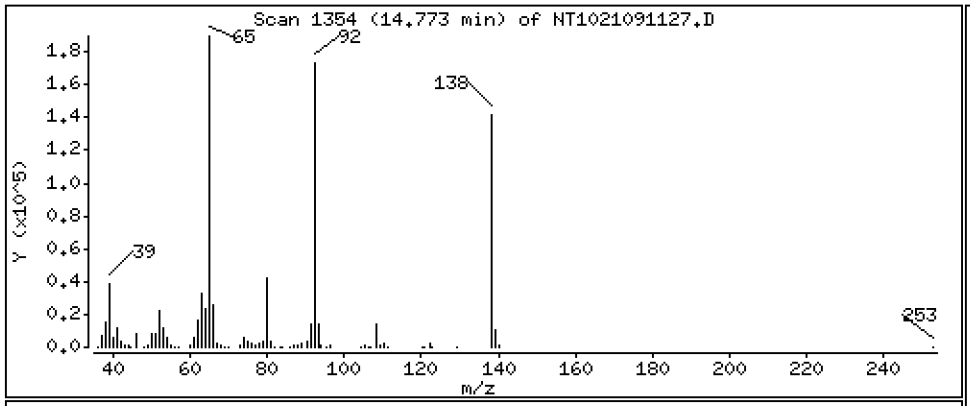
Operator: VTS

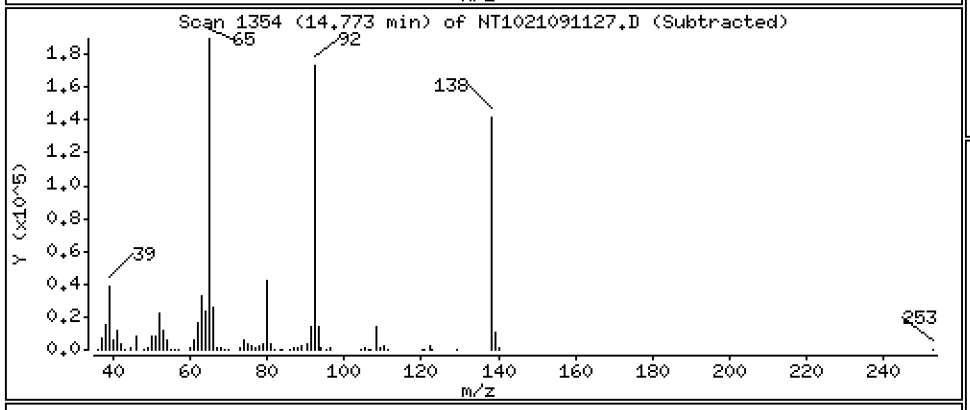
Column phase: ZB-5msi

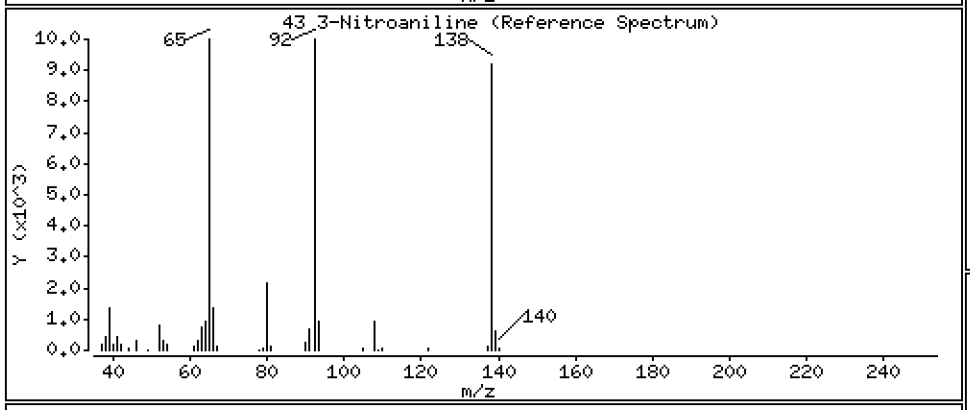
Column diameter: 0.25

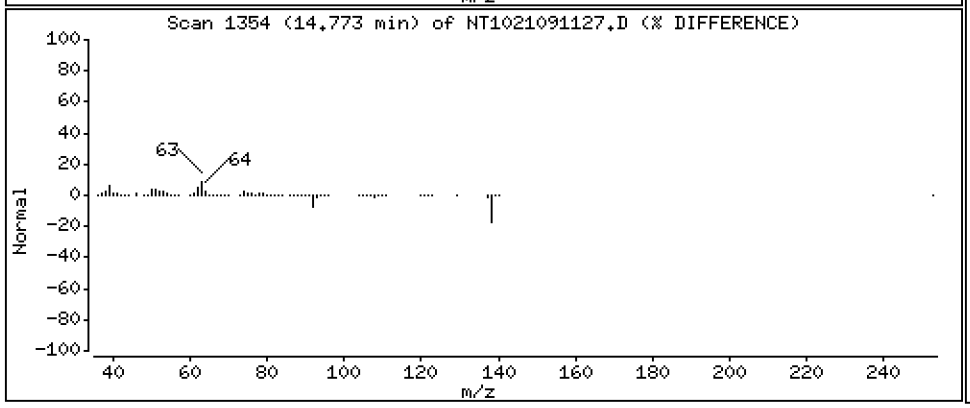
43 3-Nitroaniline

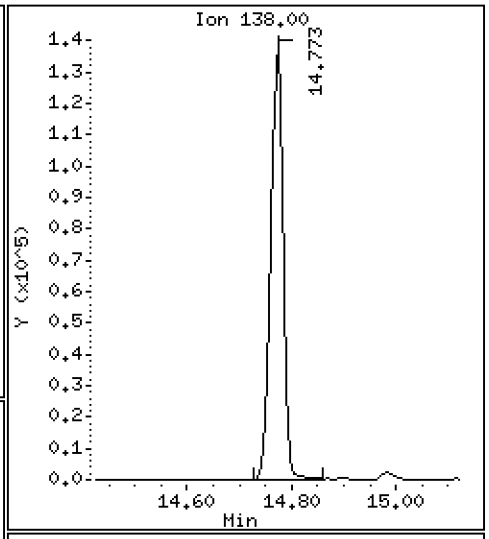
Concentration: 9.424 ug/mL

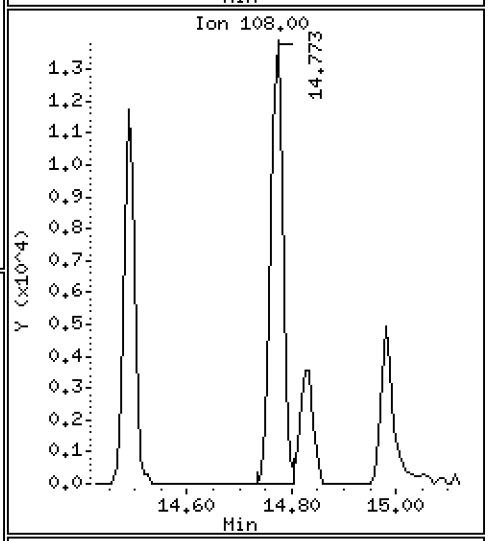


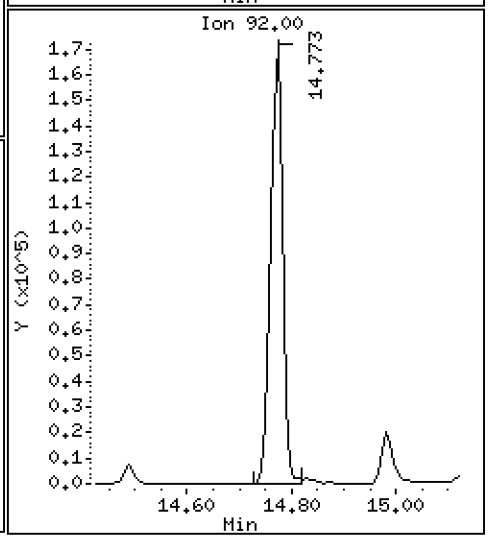












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

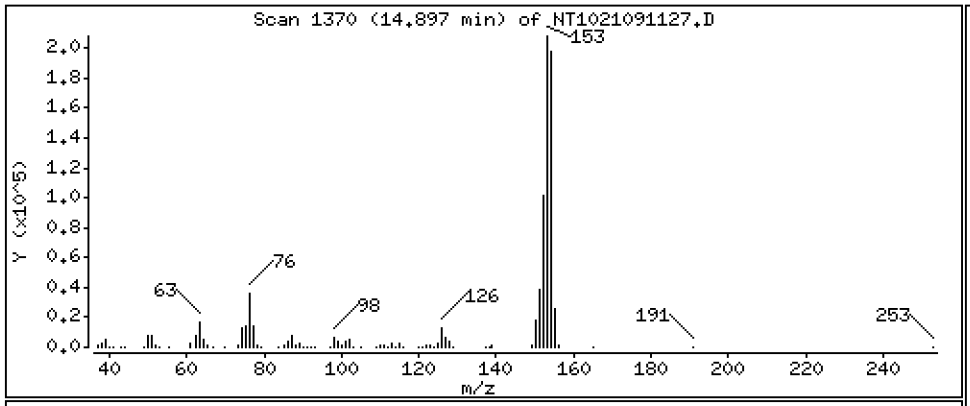
Operator: VTS

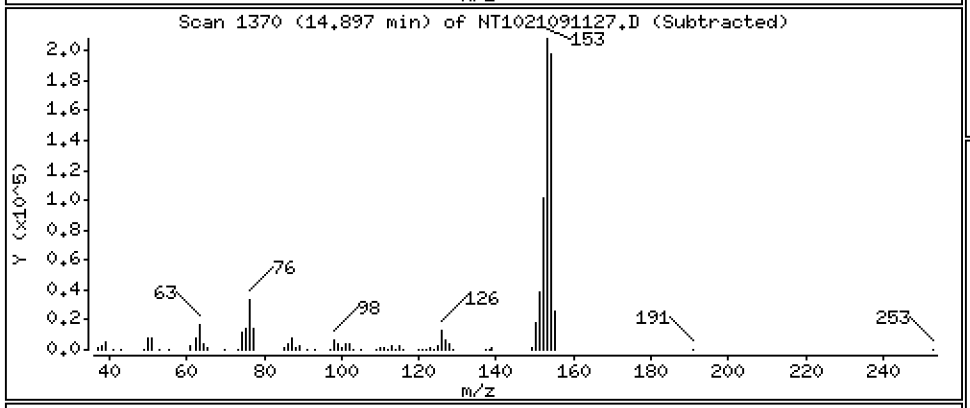
Column phase: ZB-5msi

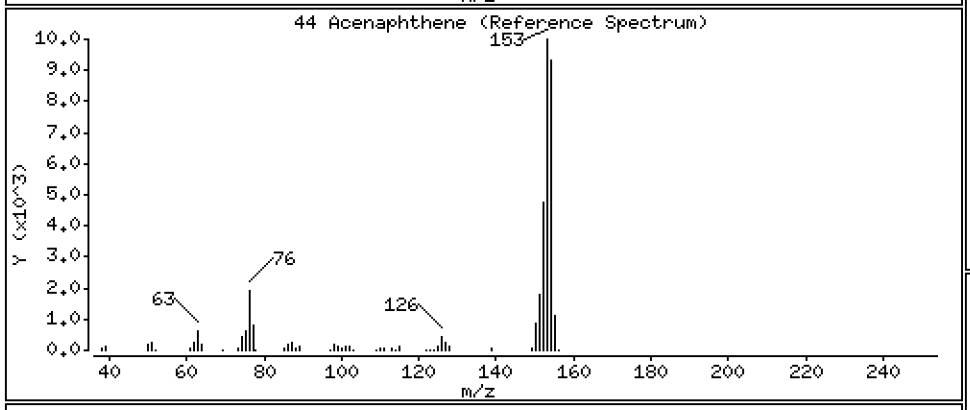
Column diameter: 0.25

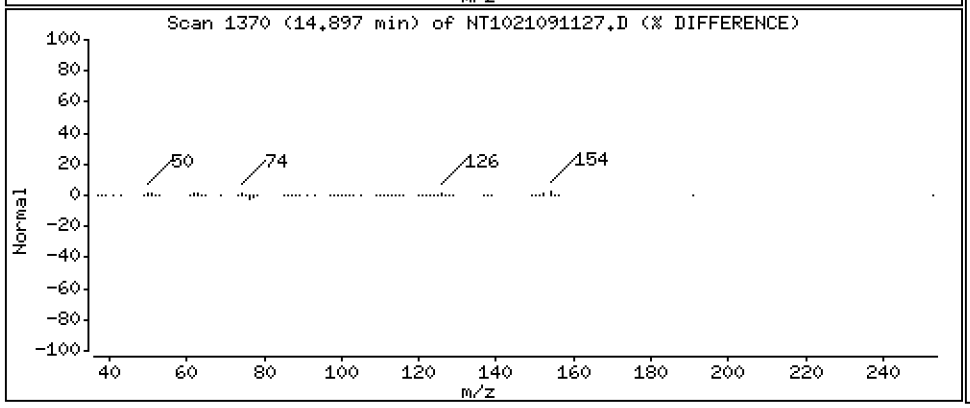
44 Acenaphthene

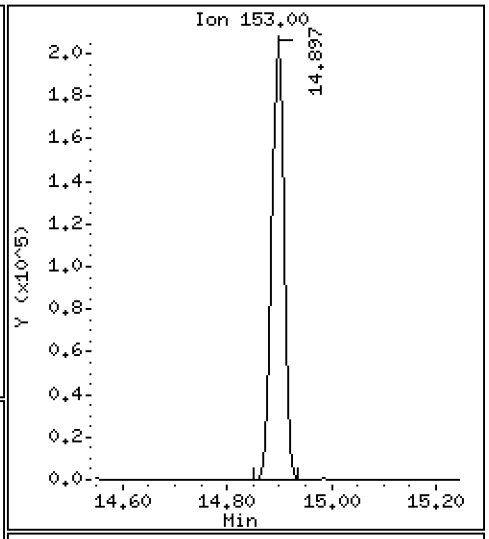
Concentration: 5.230 ug/mL

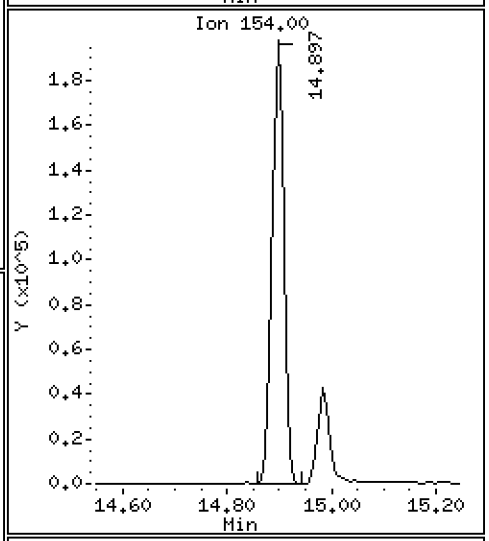


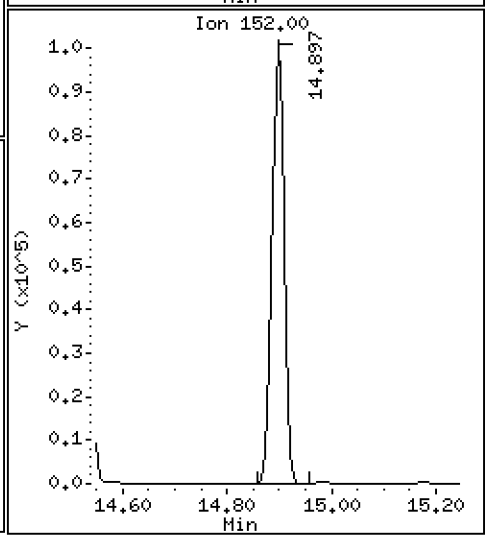












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

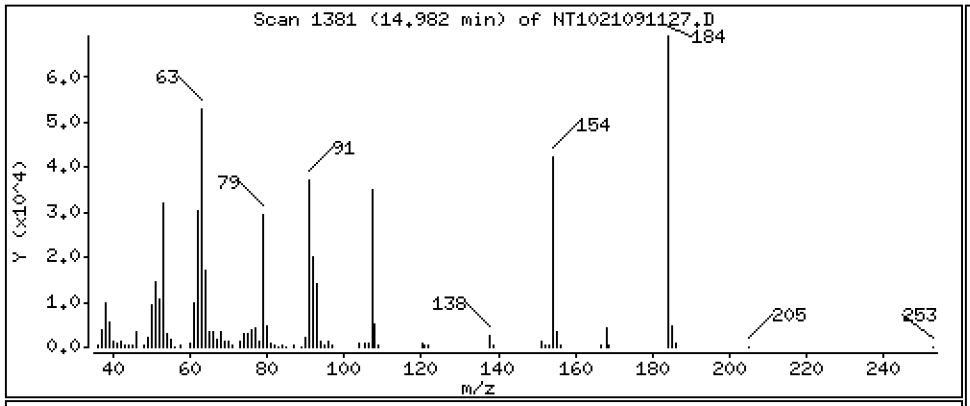
Operator: VTS

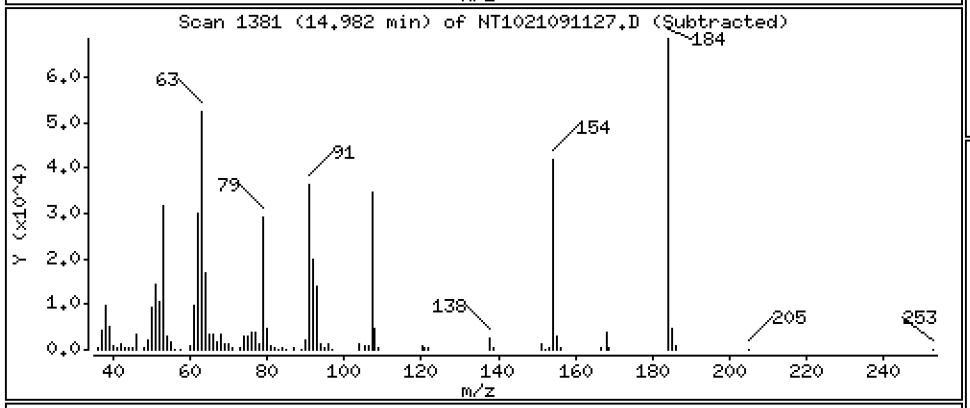
Column phase: ZB-5msi

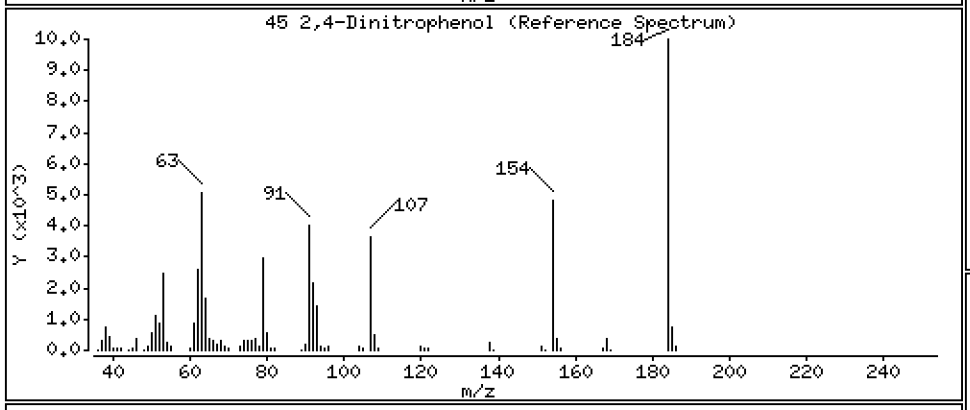
Column diameter: 0.25

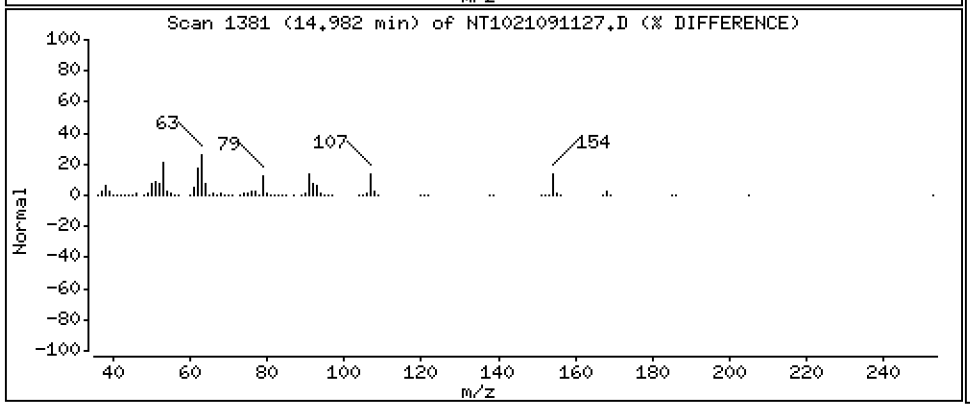
45 2,4-Dinitrophenol

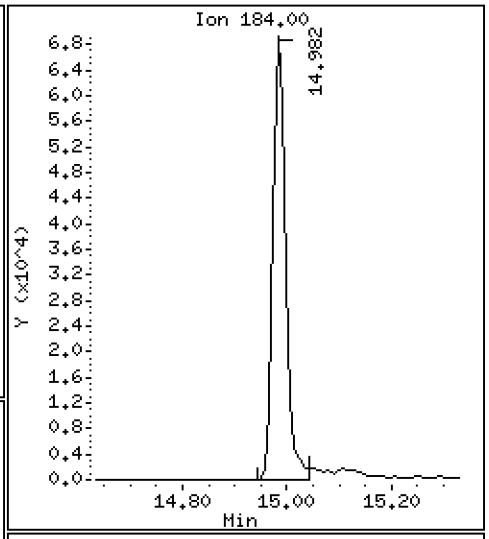
Concentration: 12.44 ug/mL

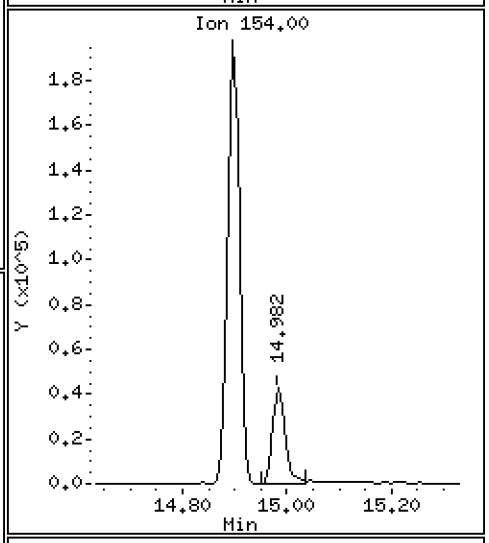


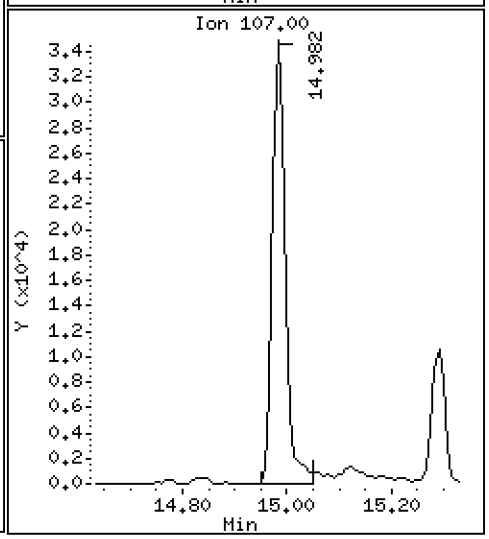












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

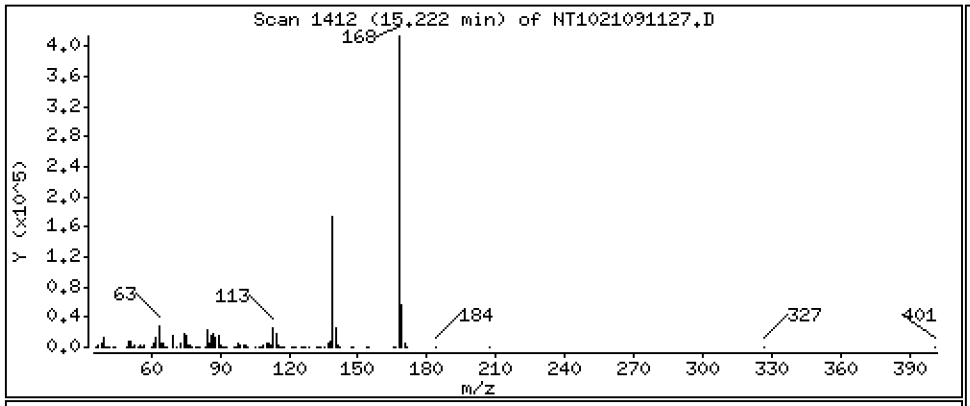
Operator: VTS

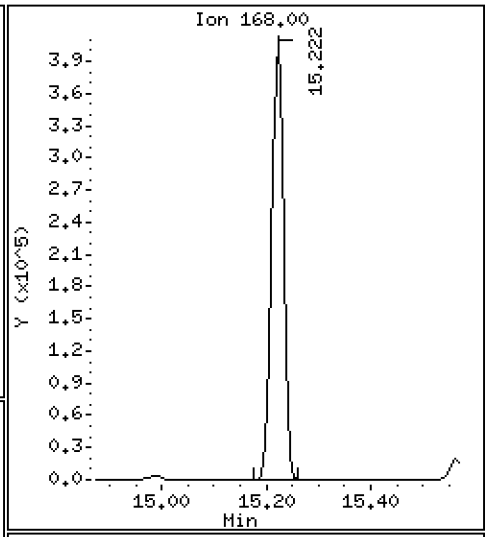
Column phase: ZB-5msi

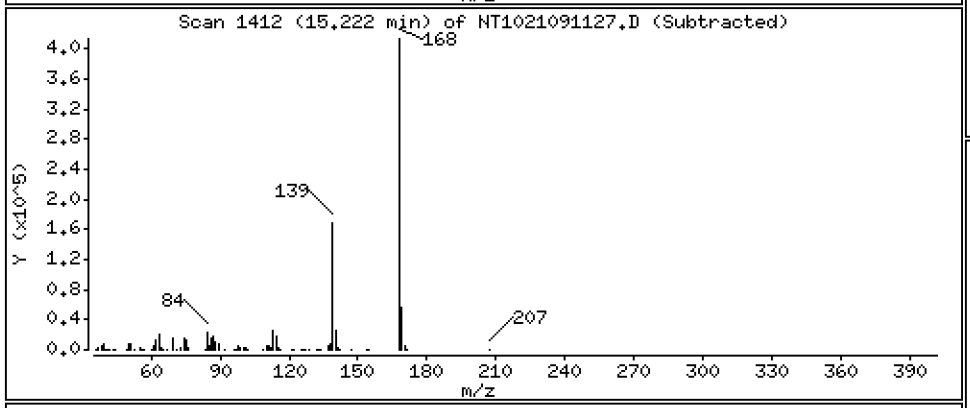
Column diameter: 0.25

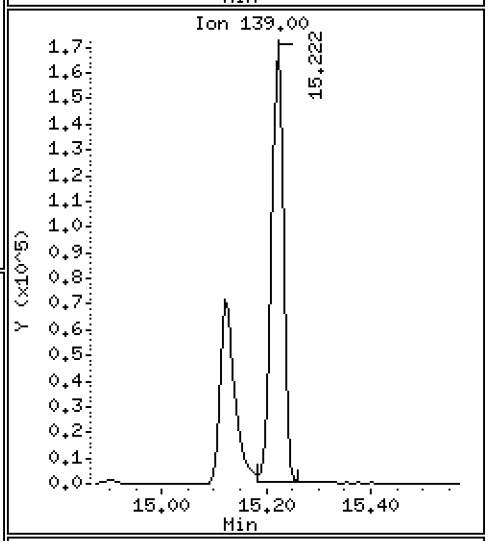
46 Dibenzofuran

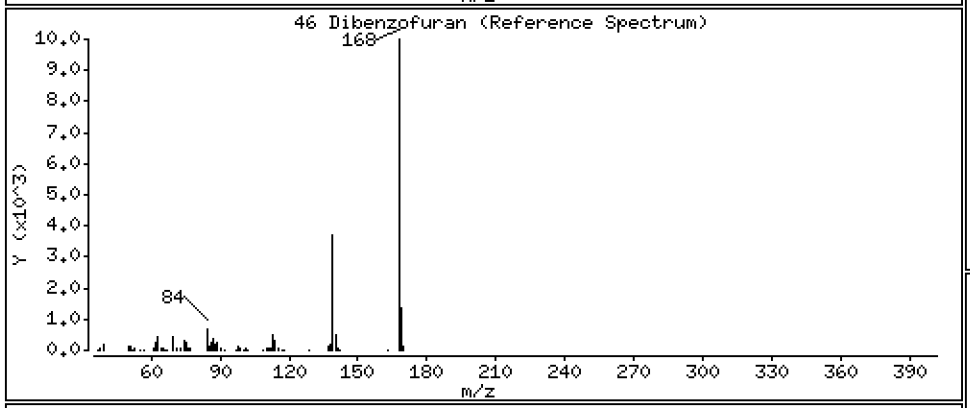
Concentration: 5.655 ug/mL

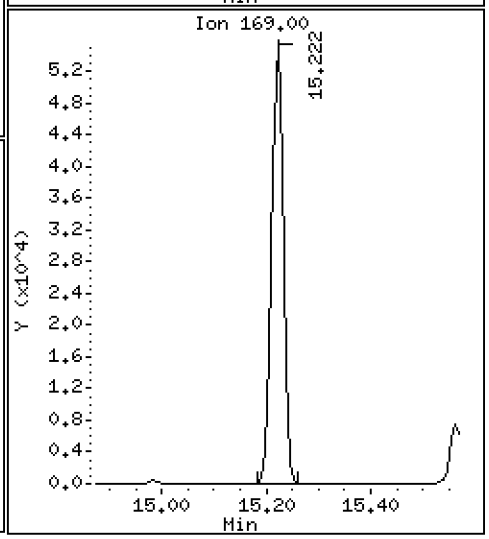


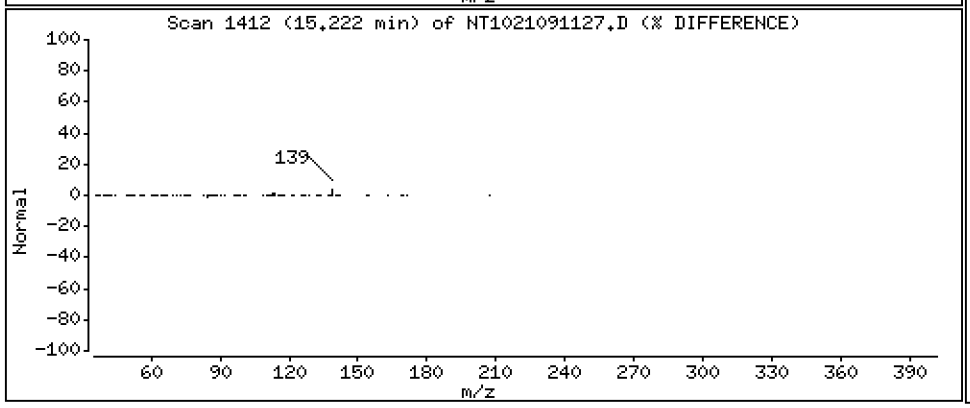












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

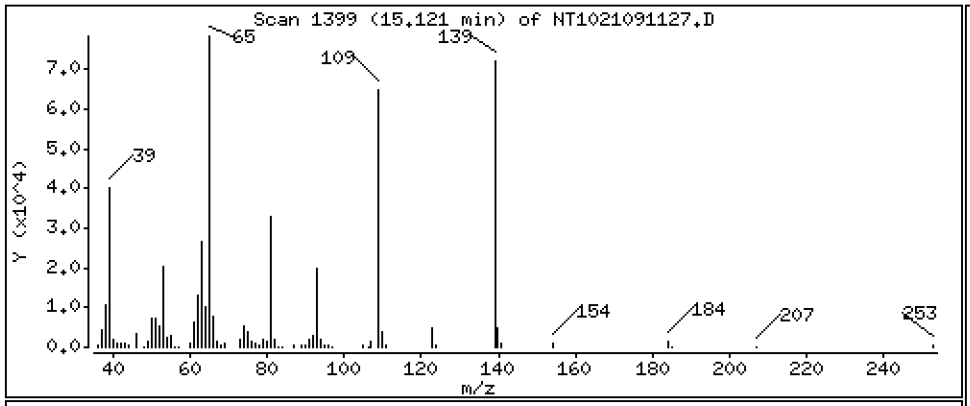
Operator: VTS

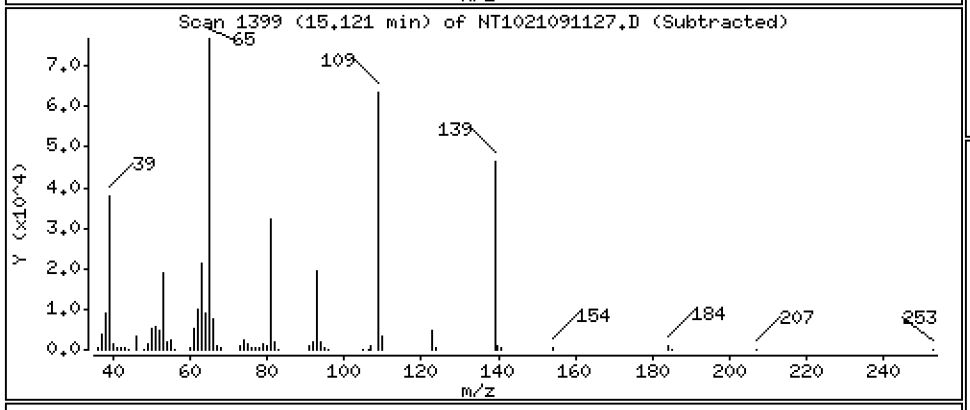
Column phase: ZB-5msi

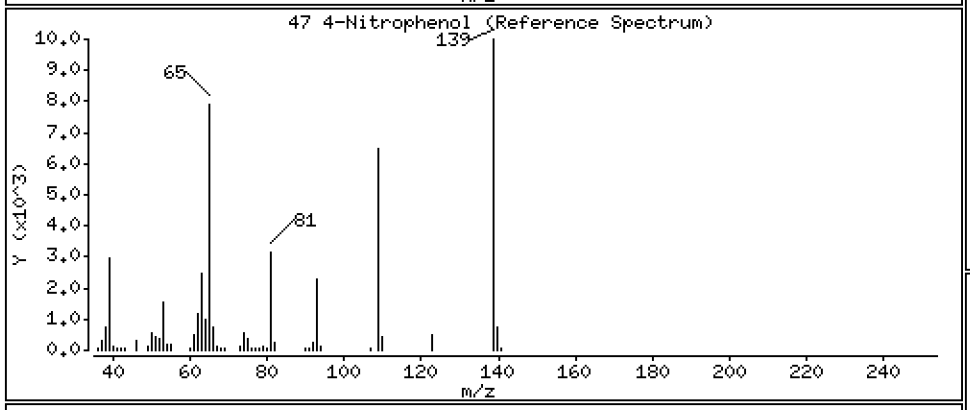
Column diameter: 0.25

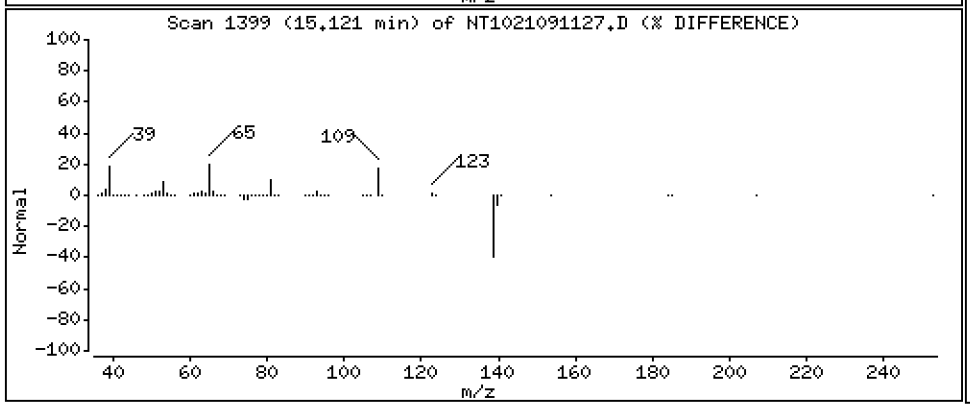
47 4-Nitrophenol

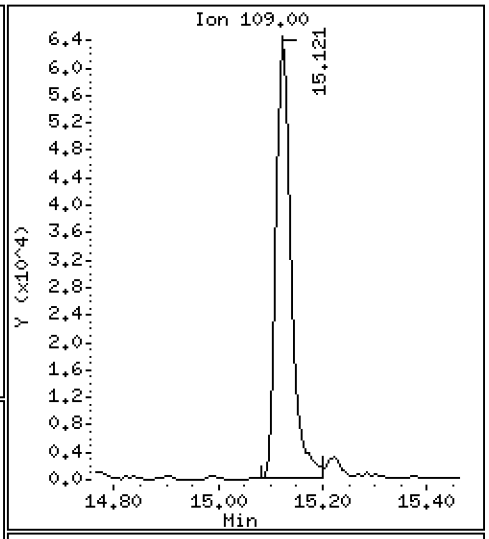
Concentration: 15.19 ug/mL

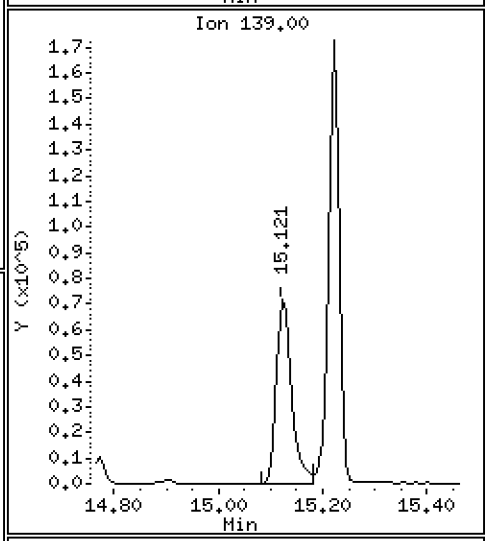


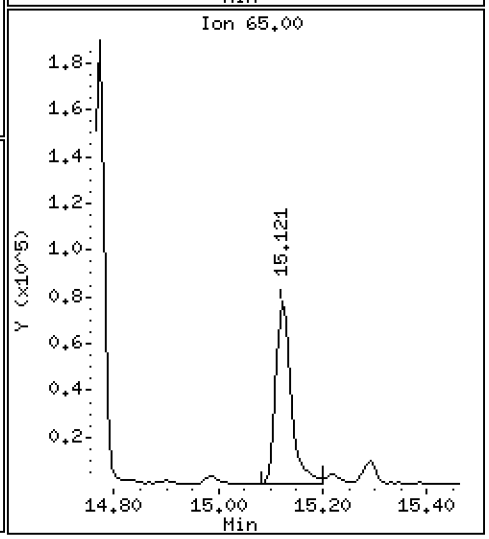












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

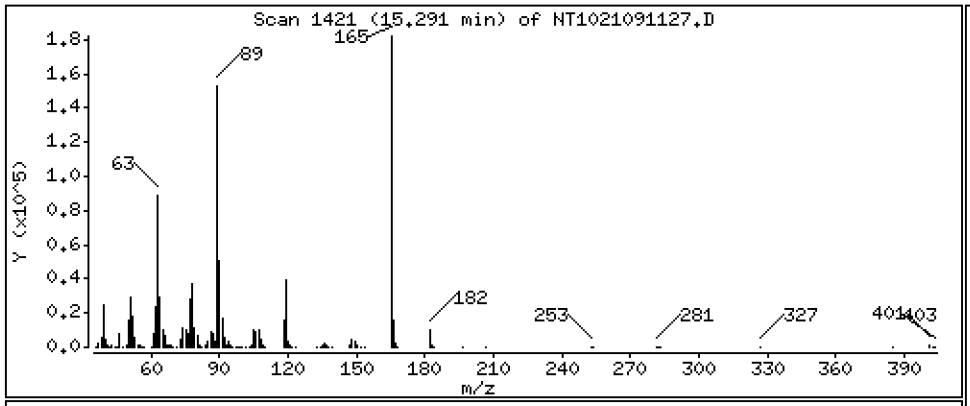
Operator: VTS

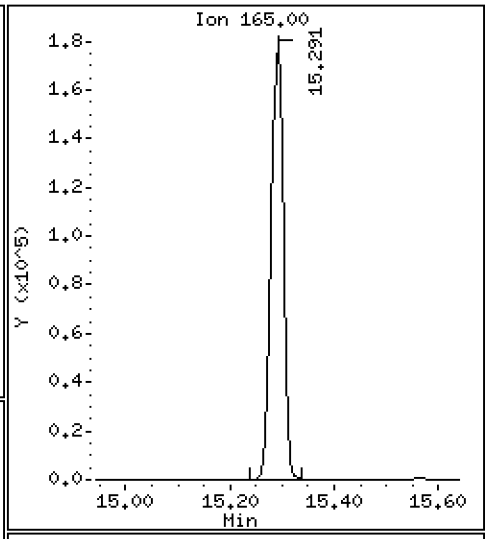
Column phase: ZB-5msi

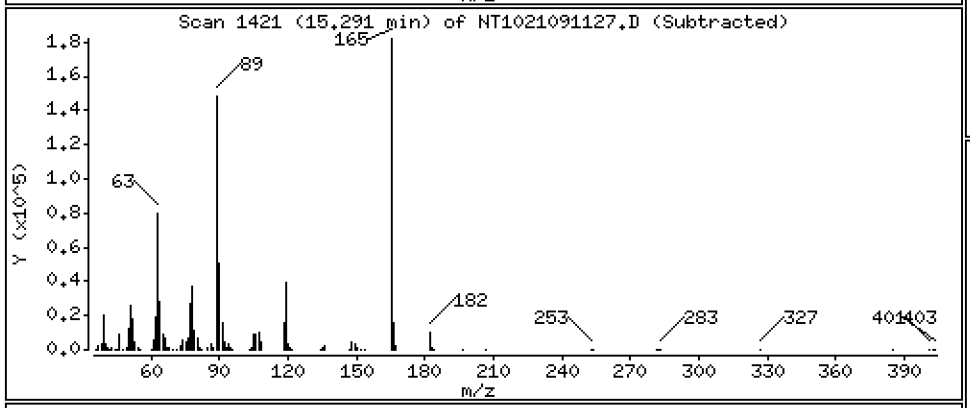
Column diameter: 0.25

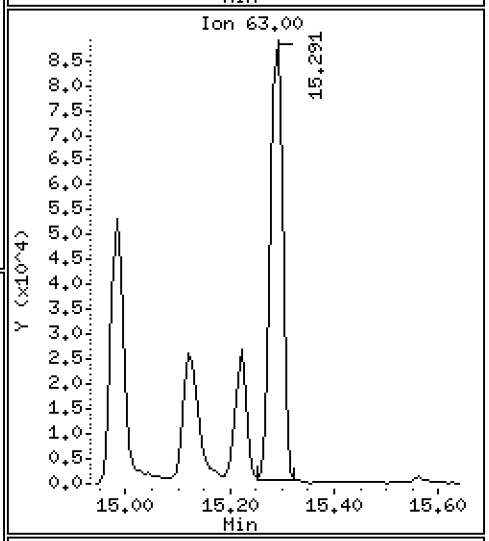
48 2,4-Dinitrotoluene

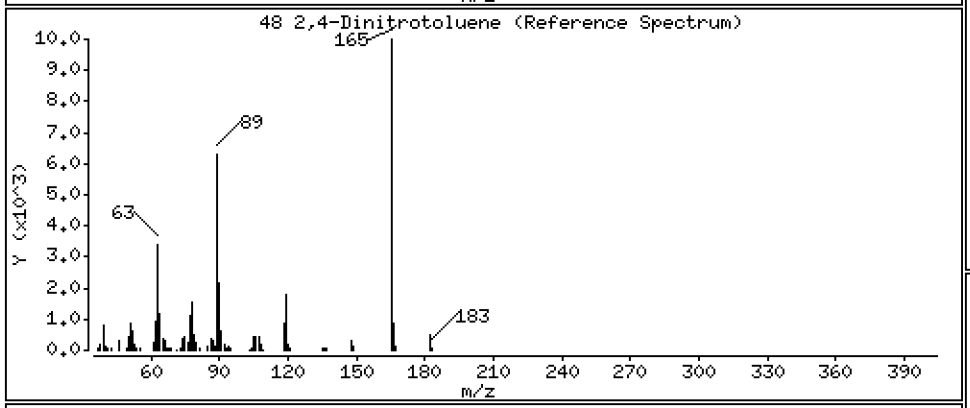
Concentration: 11.77 ug/mL

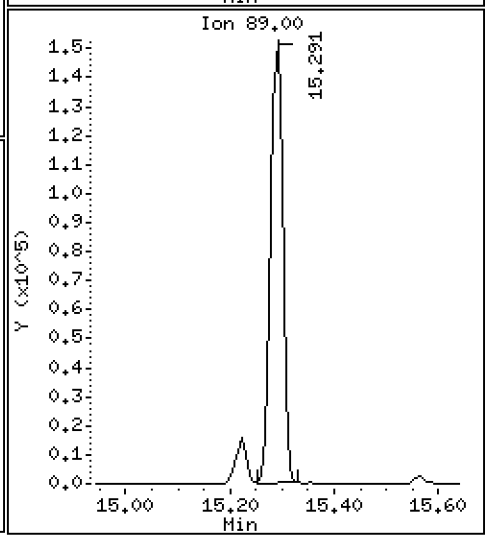


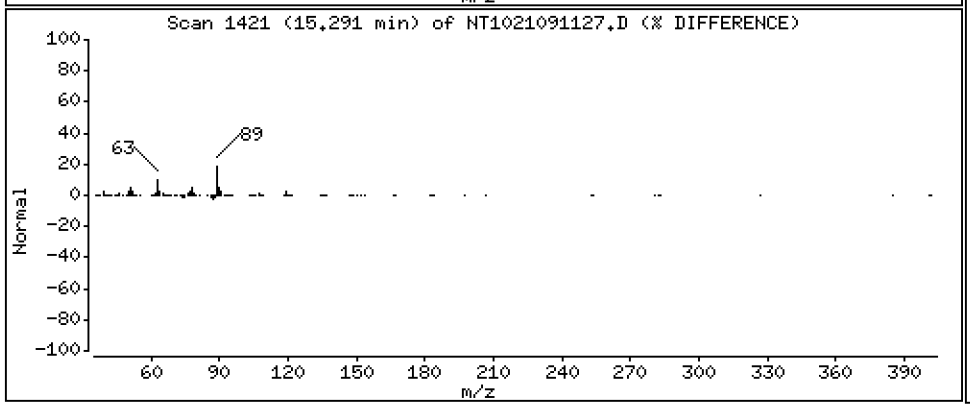












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

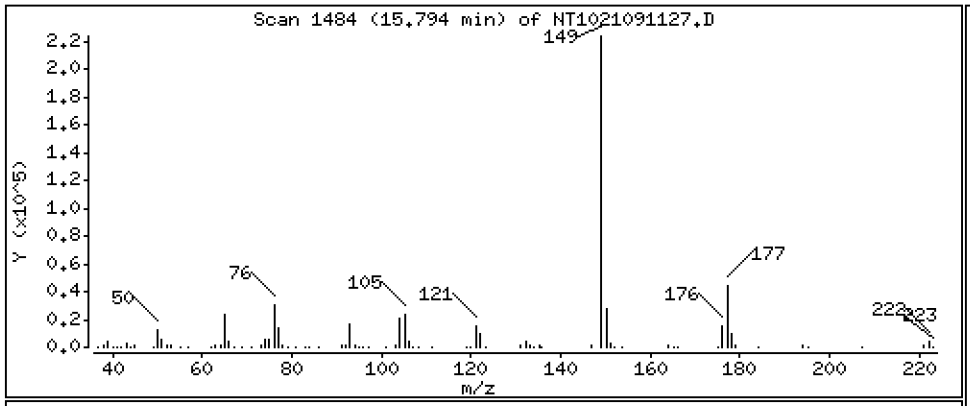
Operator: VTS

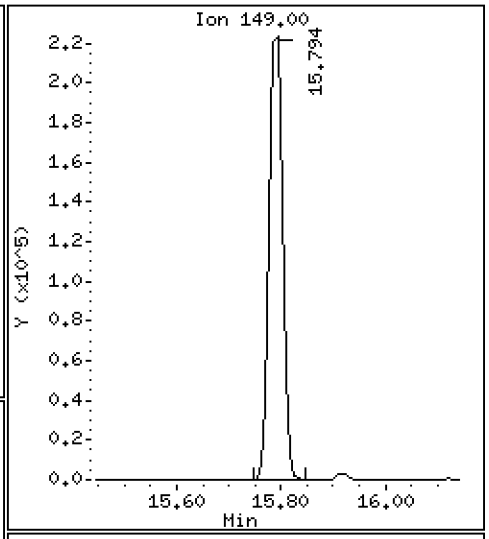
Column phase: ZB-5msi

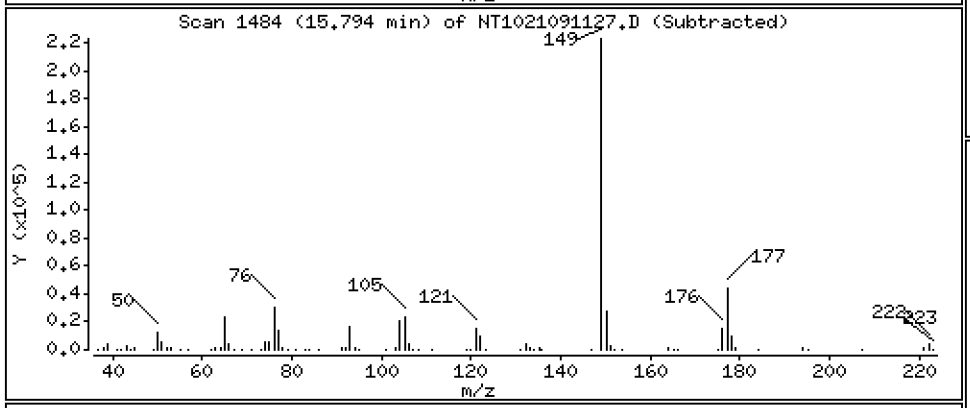
Column diameter: 0.25

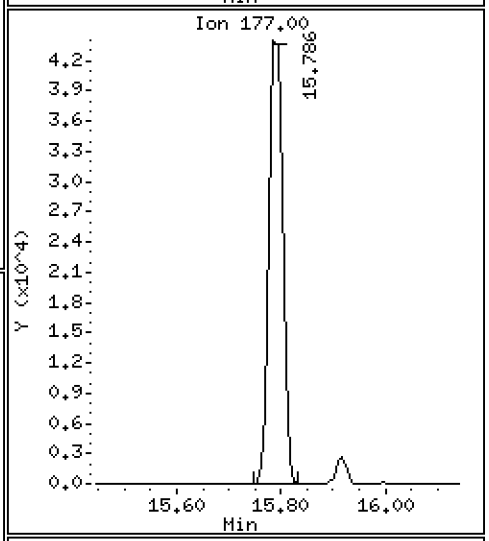
50 Diethylphthalate

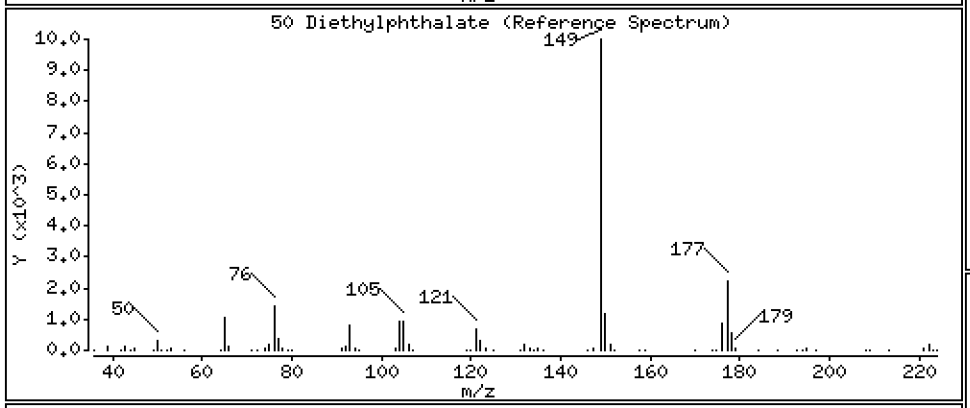
Concentration: 5.598 ug/mL

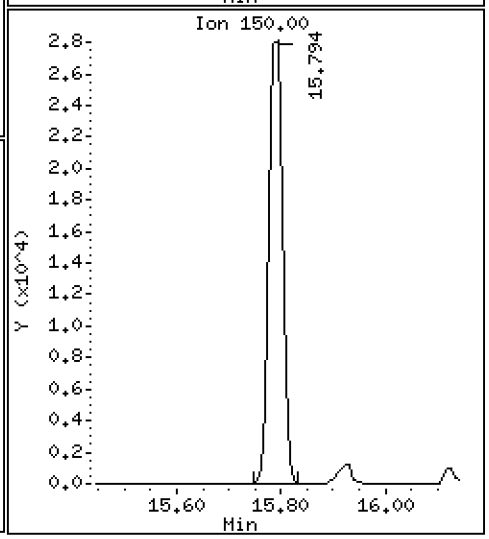


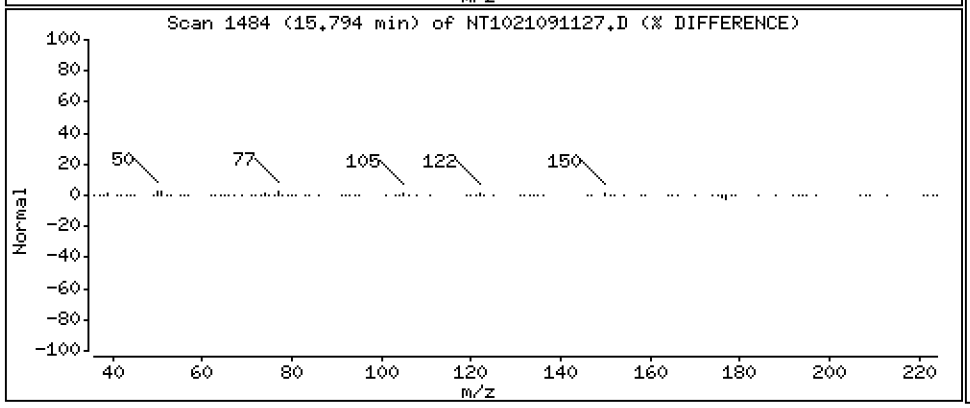












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

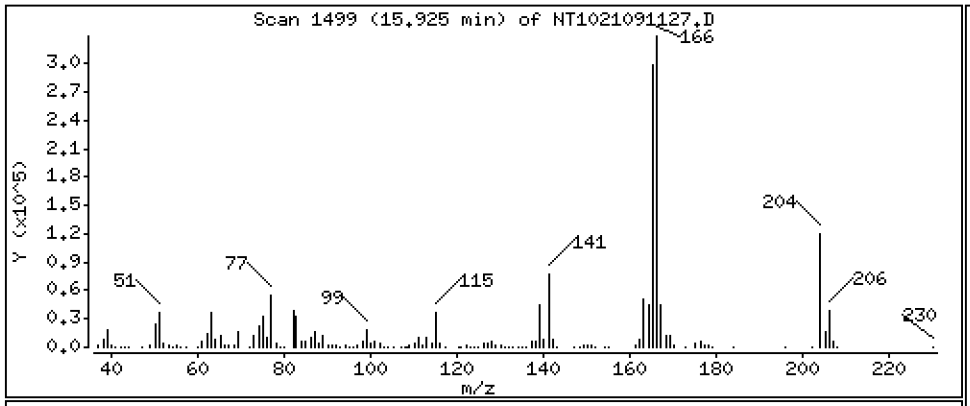
Operator: VTS

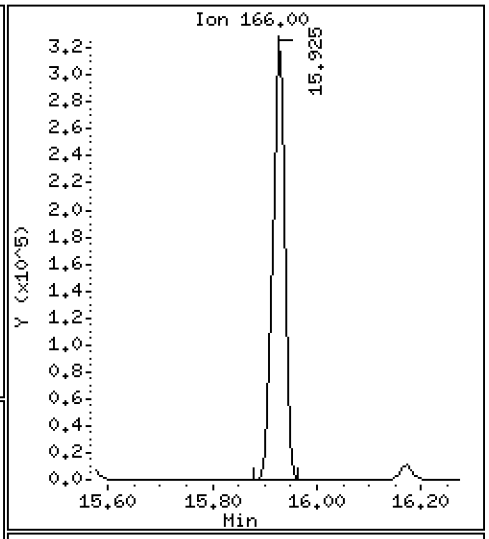
Column phase: ZB-5msi

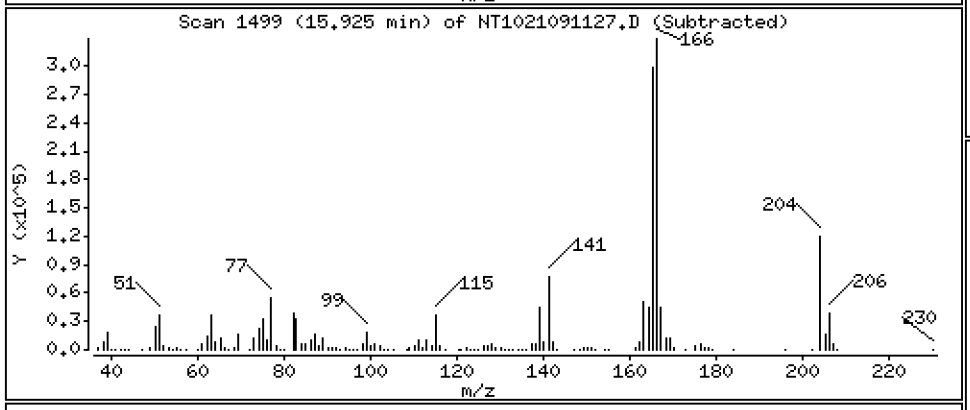
Column diameter: 0.25

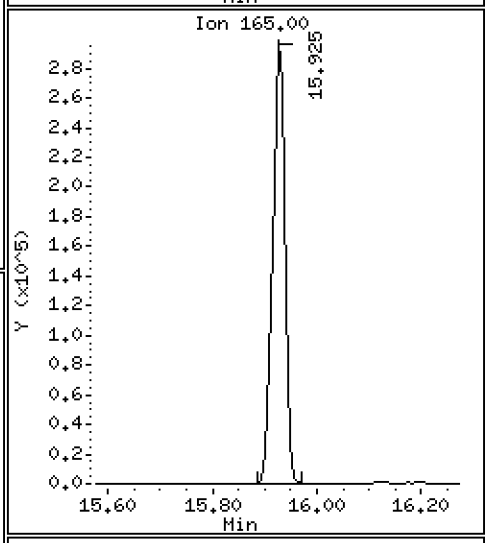
49 Fluorene

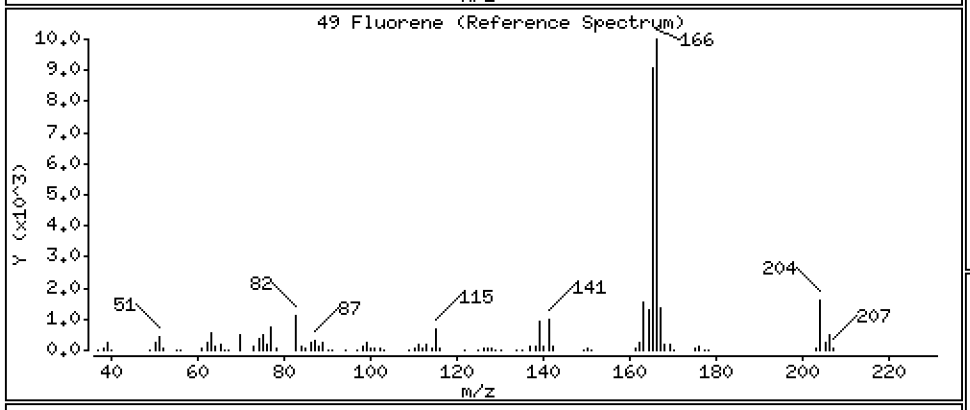
Concentration: 5.345 ug/mL

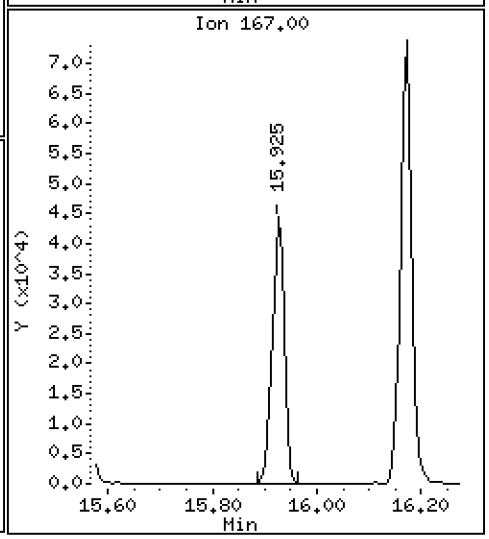


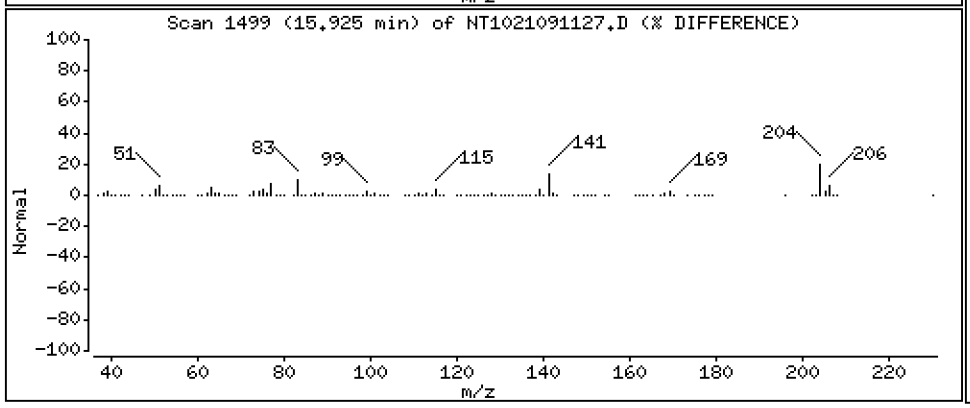












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

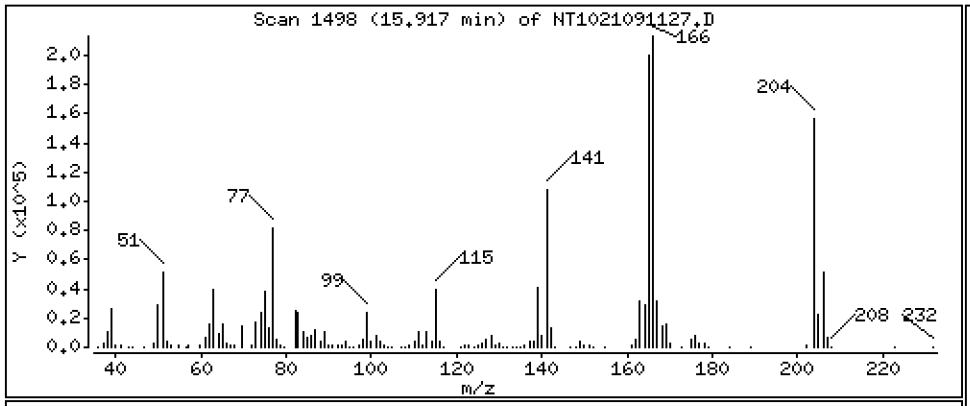
Operator: VTS

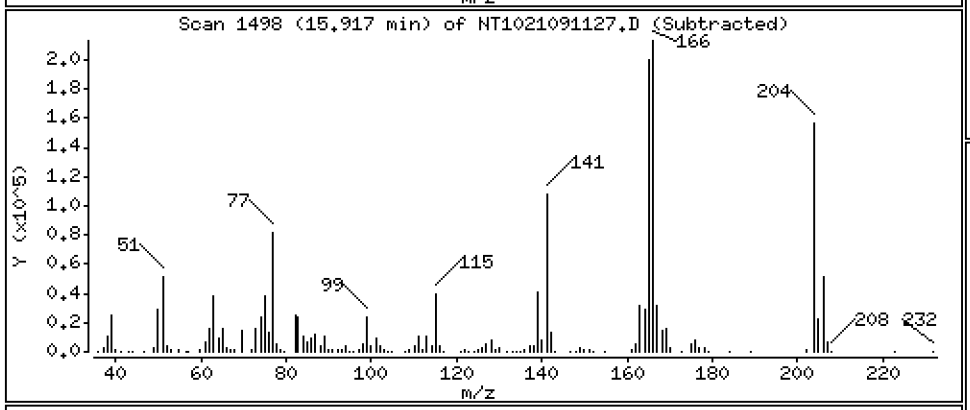
Column phase: ZB-5msi

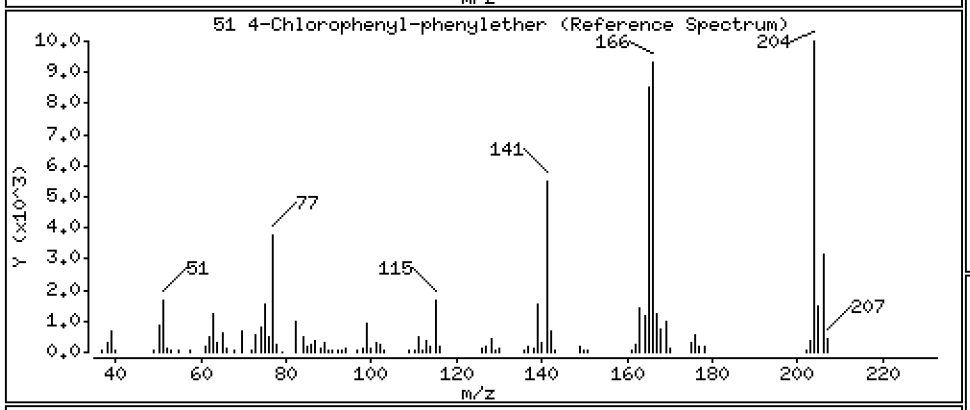
Column diameter: 0.25

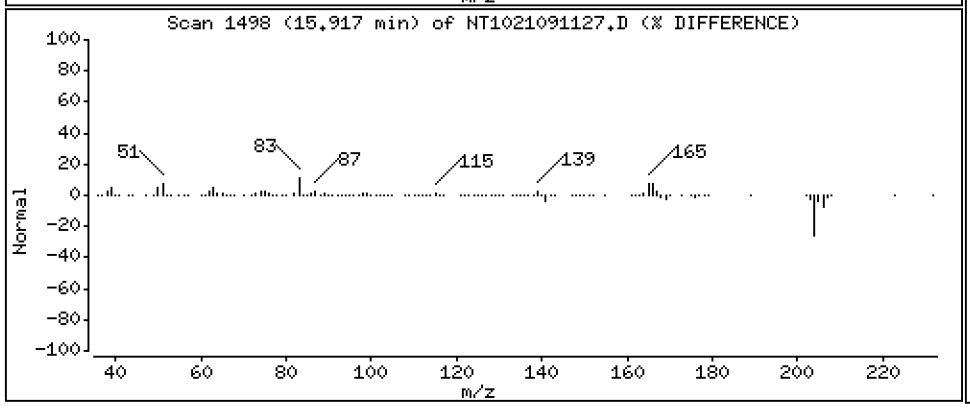
51 4-Chlorophenyl-phenylether

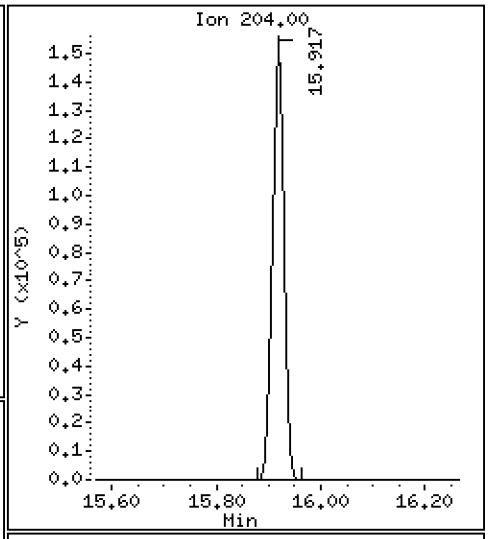
Concentration: 5.335 ug/mL

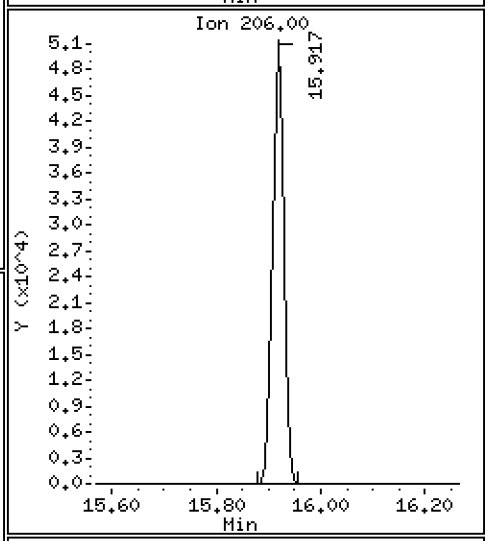


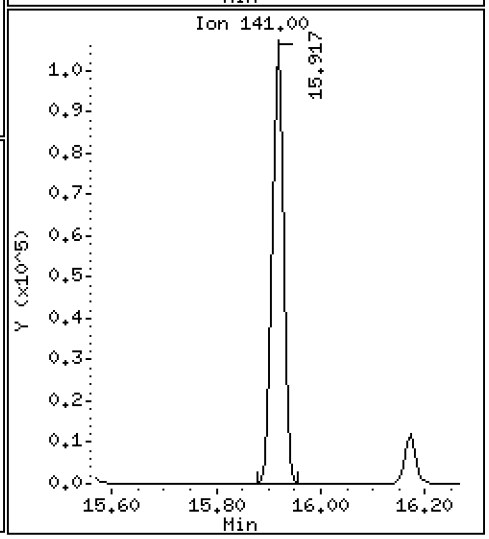












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

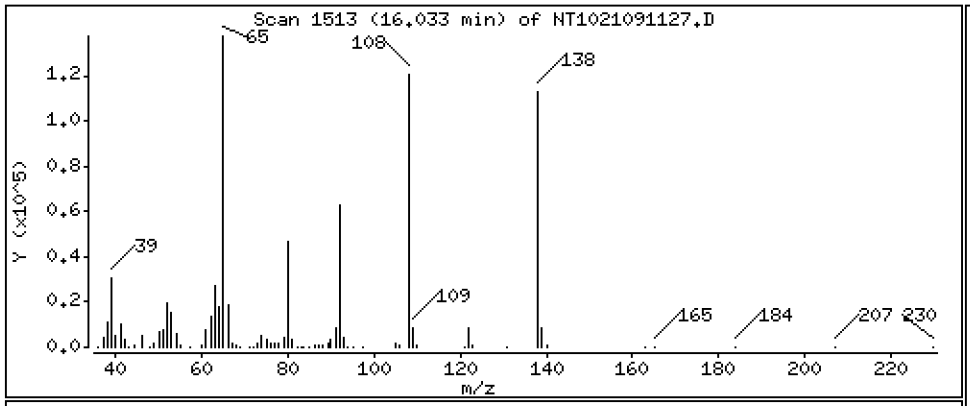
Operator: VTS

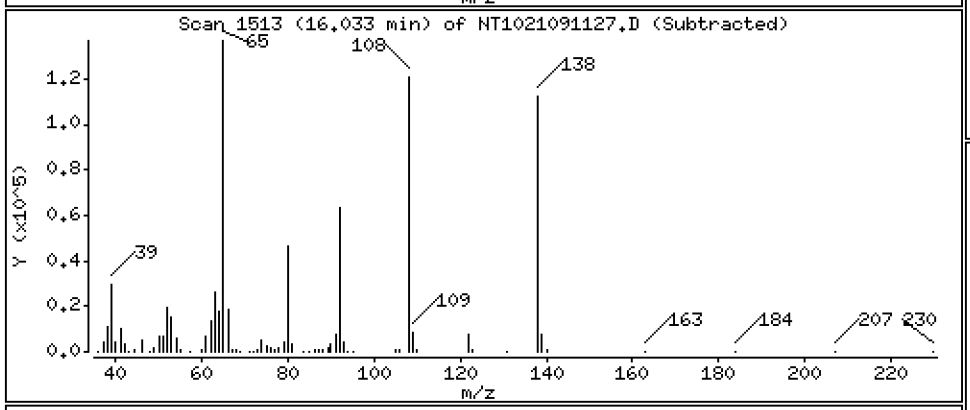
Column phase: ZB-5msi

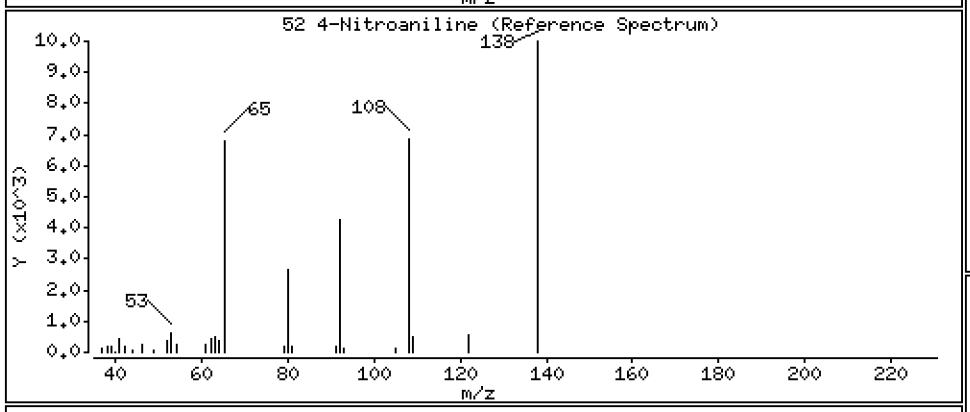
Column diameter: 0.25

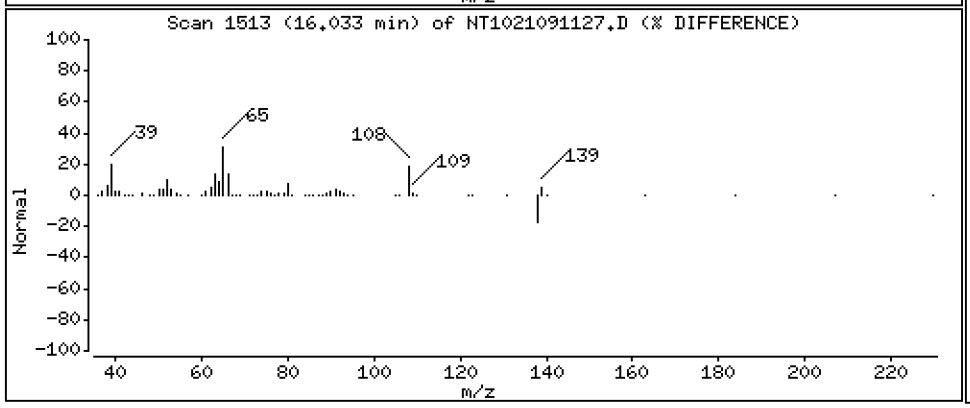
52 4-Nitroaniline

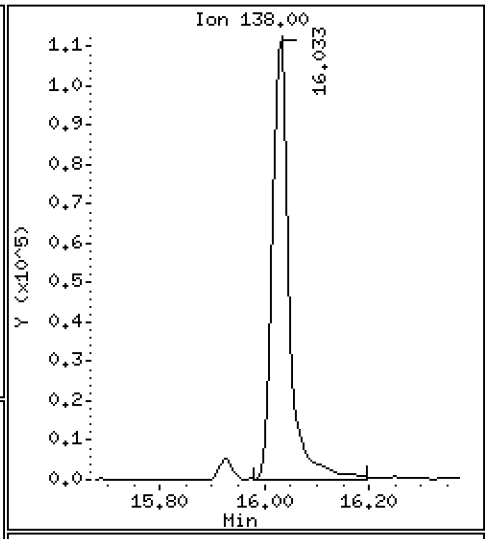
Concentration: 10.44 ug/mL

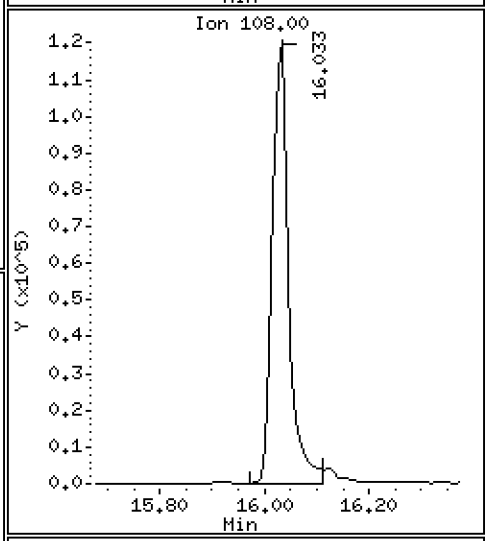


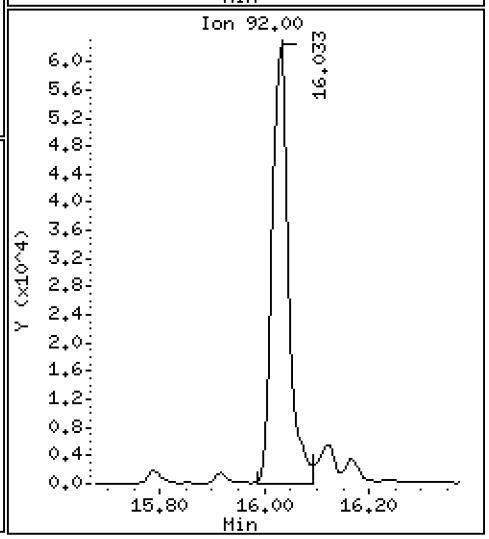












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

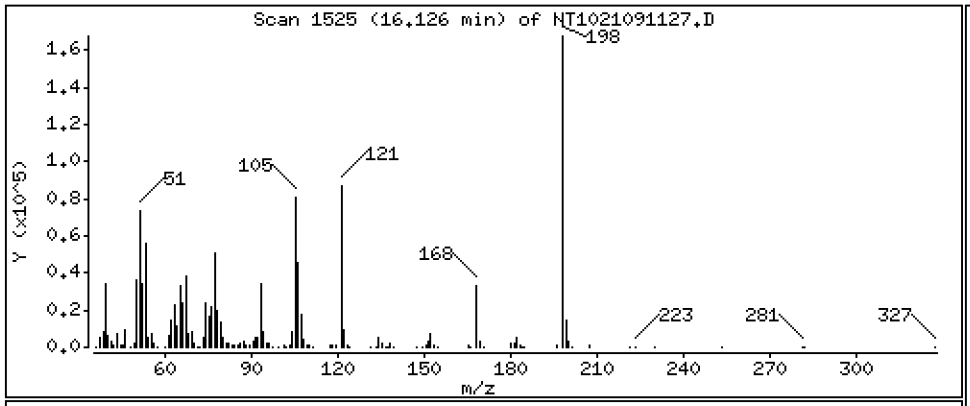
Operator: VTS

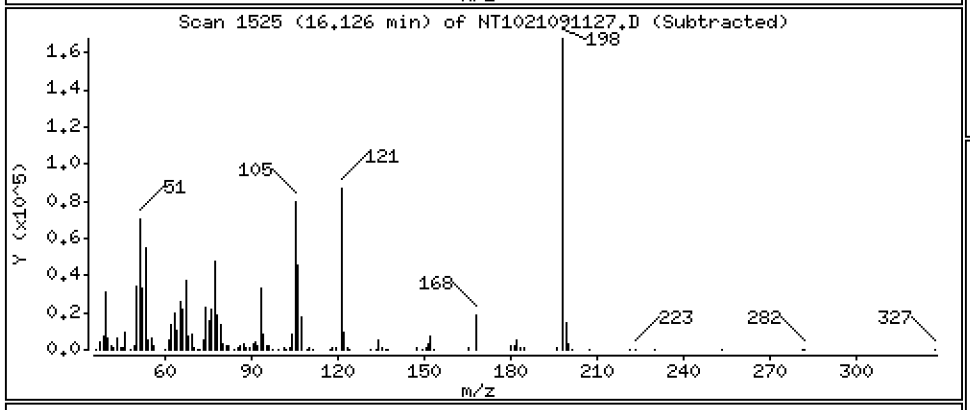
Column phase: ZB-5msi

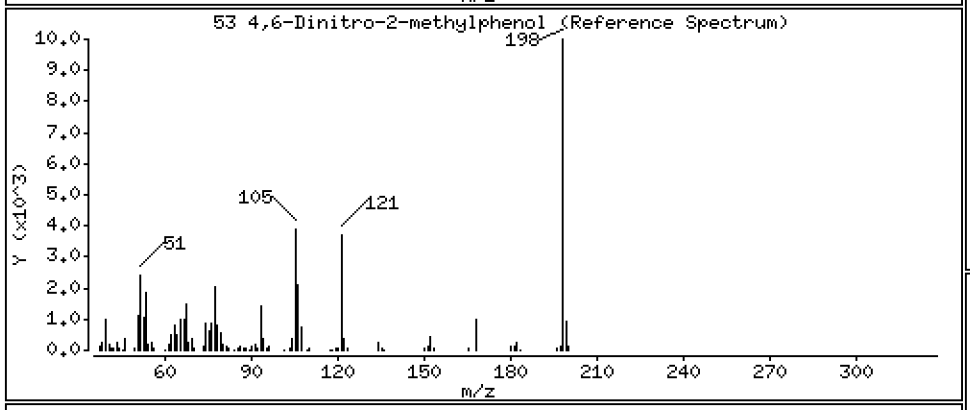
Column diameter: 0.25

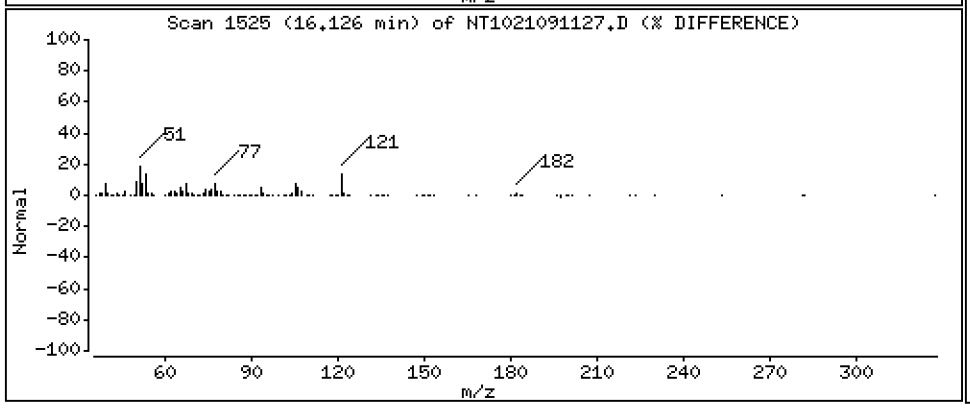
53 4,6-Dinitro-2-methylphenol

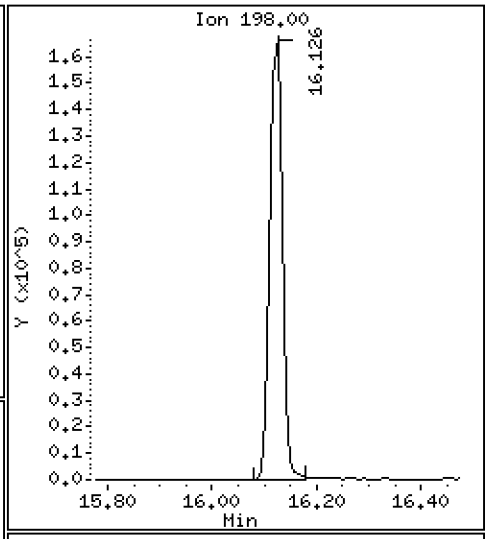
Concentration: 17.56 ug/mL

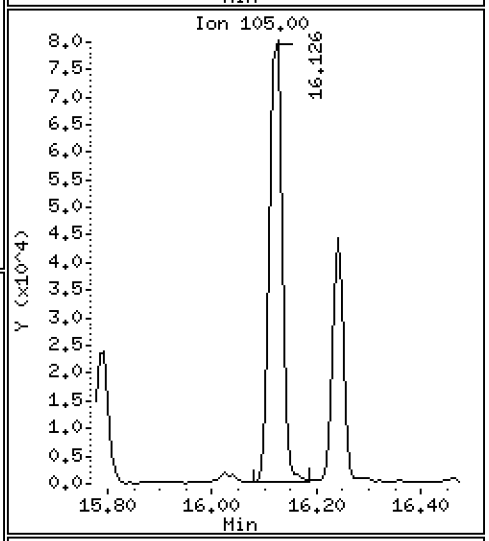


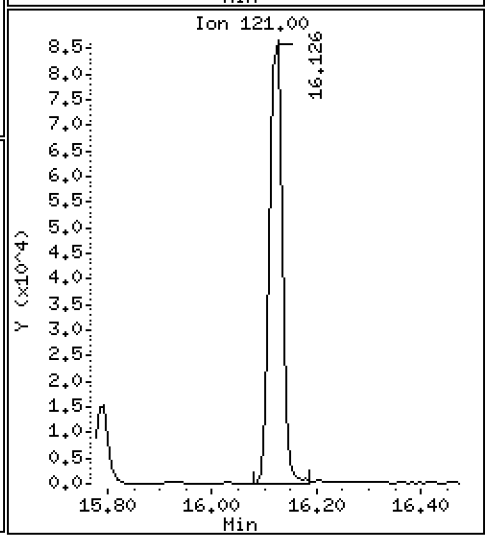












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

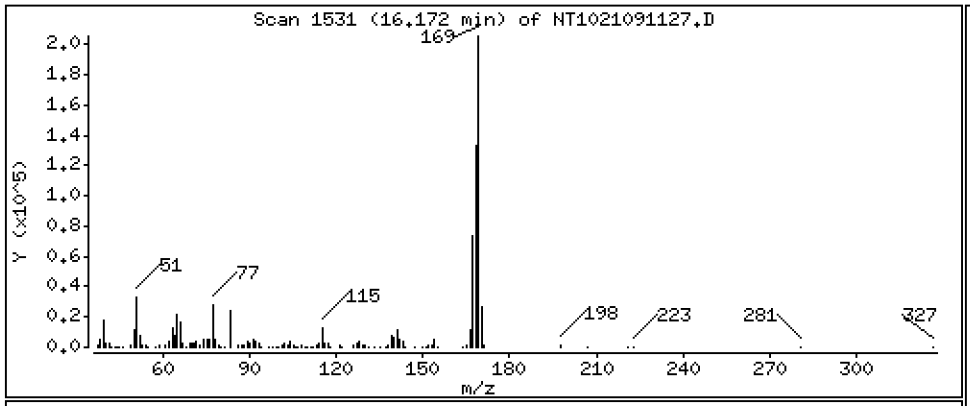
Operator: VTS

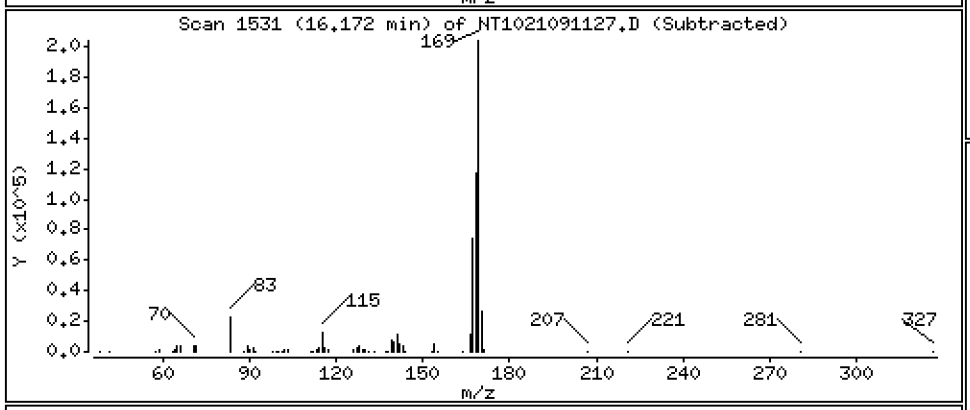
Column phase: ZB-5msi

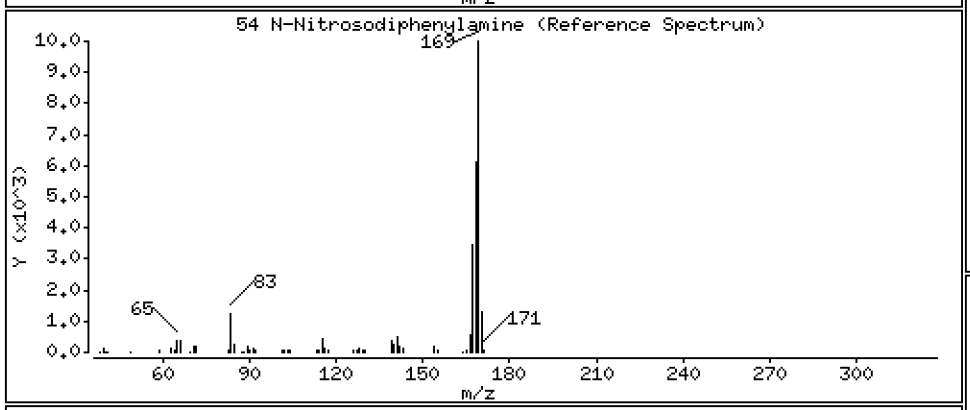
Column diameter: 0.25

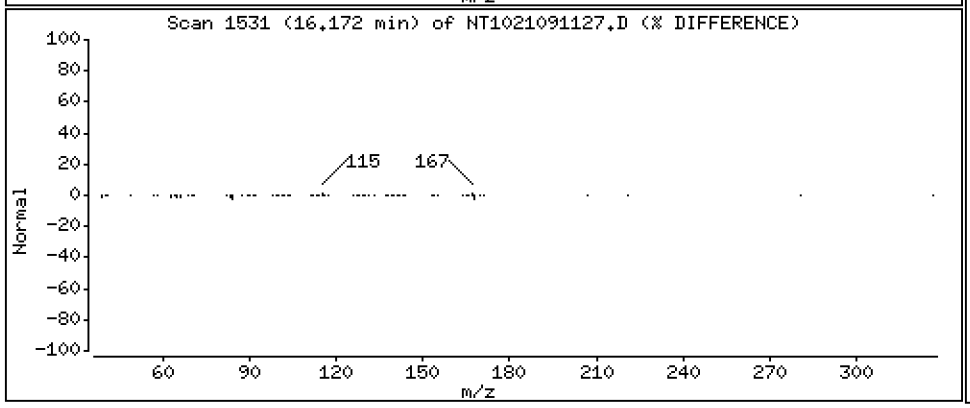
54 N-Nitrosodiphenylamine

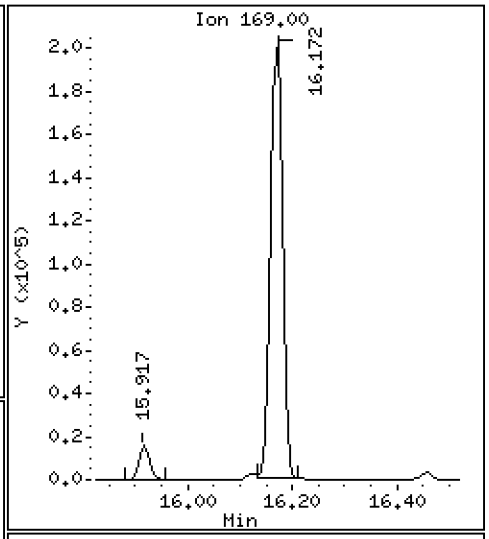
Concentration: 5.627 ug/mL

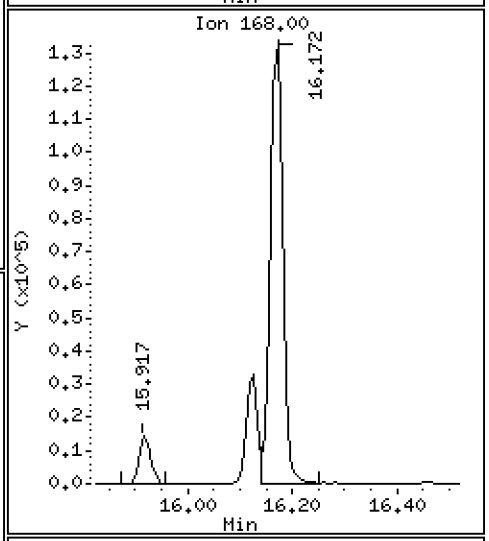


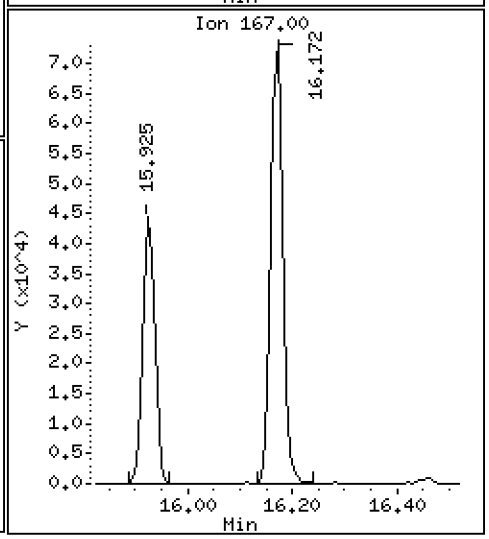












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

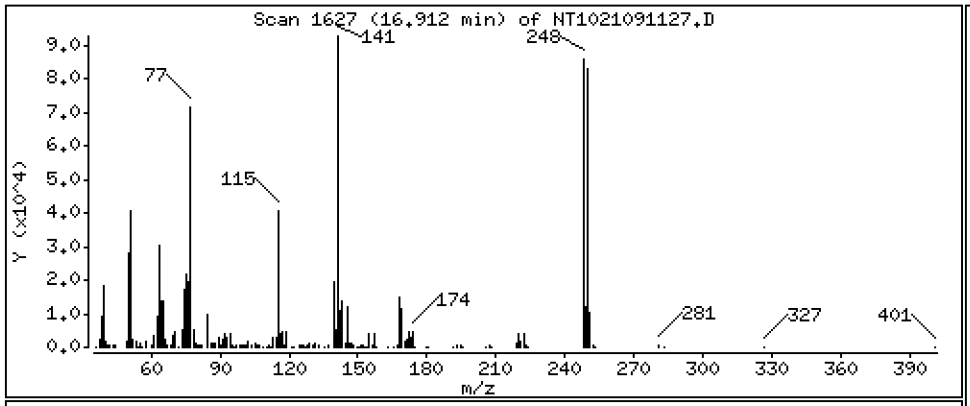
Operator: VTS

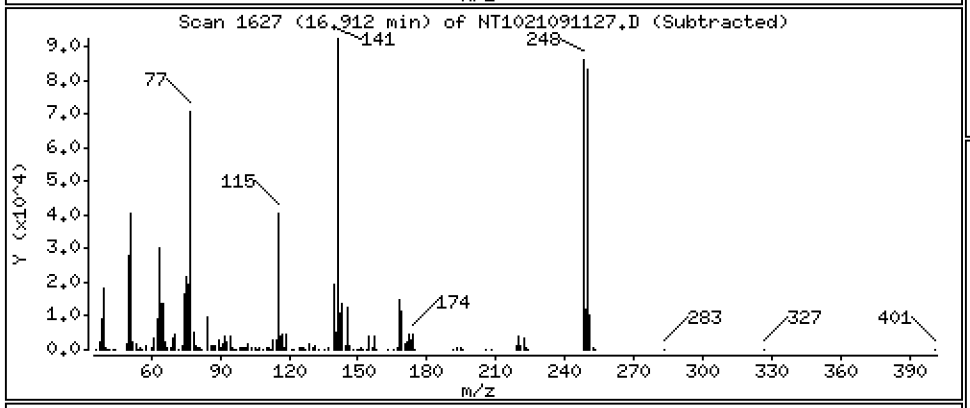
Column phase: ZB-5msi

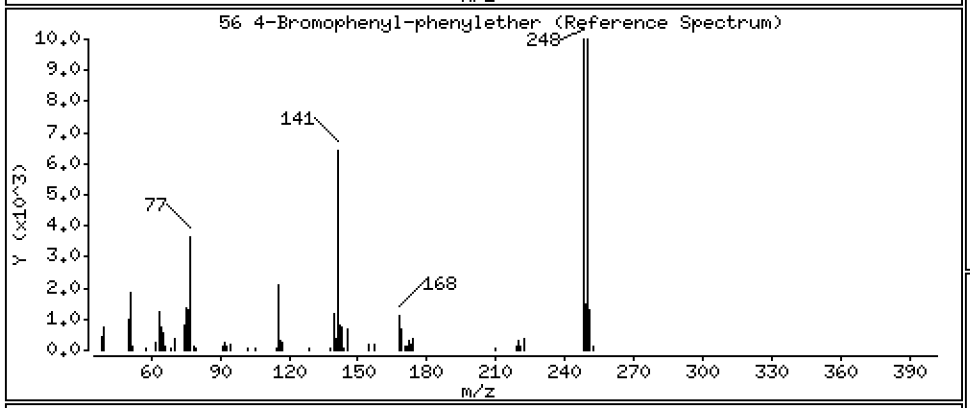
Column diameter: 0.25

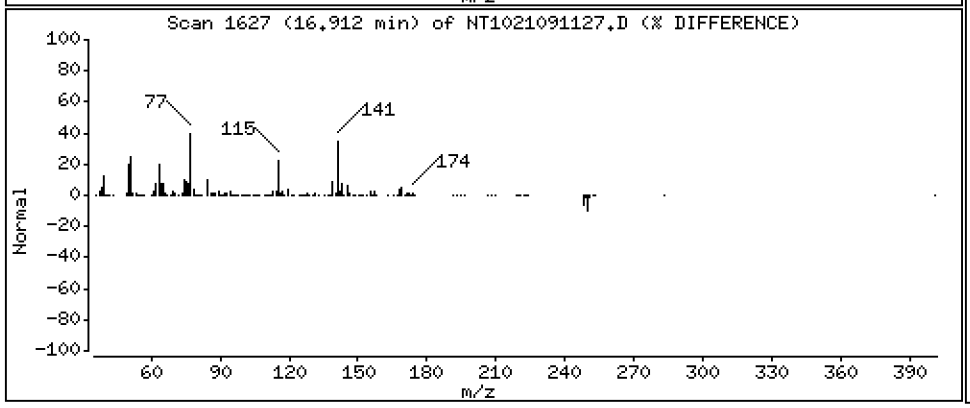
56 4-Bromophenyl-phenylether

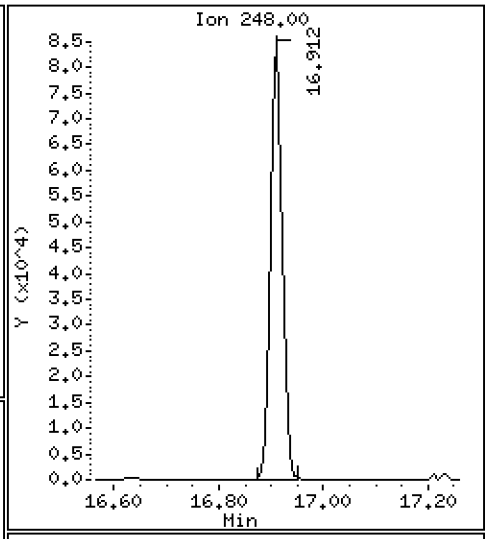
Concentration: 5.972 ug/mL

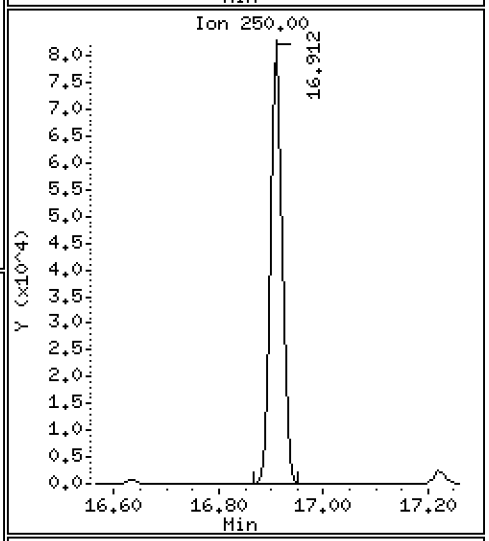


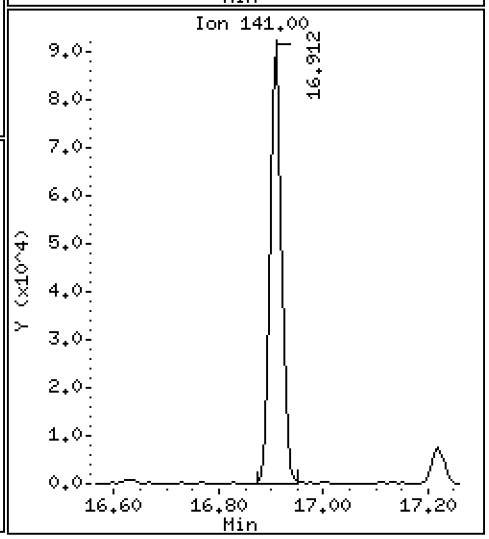












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

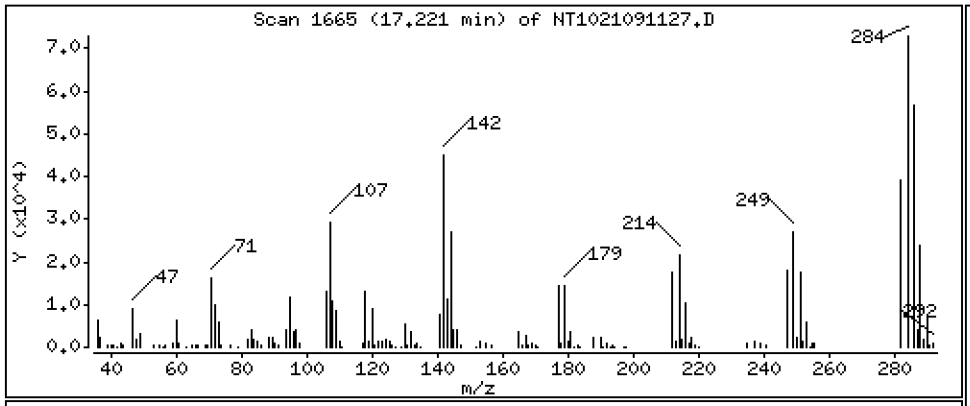
Operator: VTS

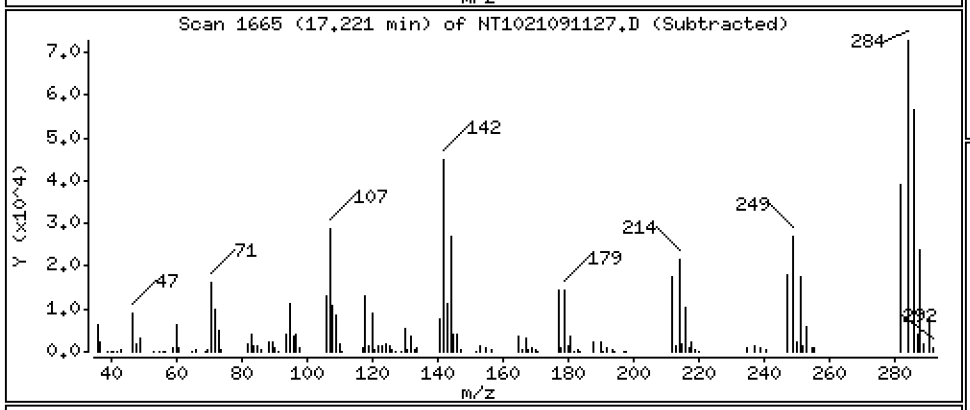
Column phase: ZB-5msi

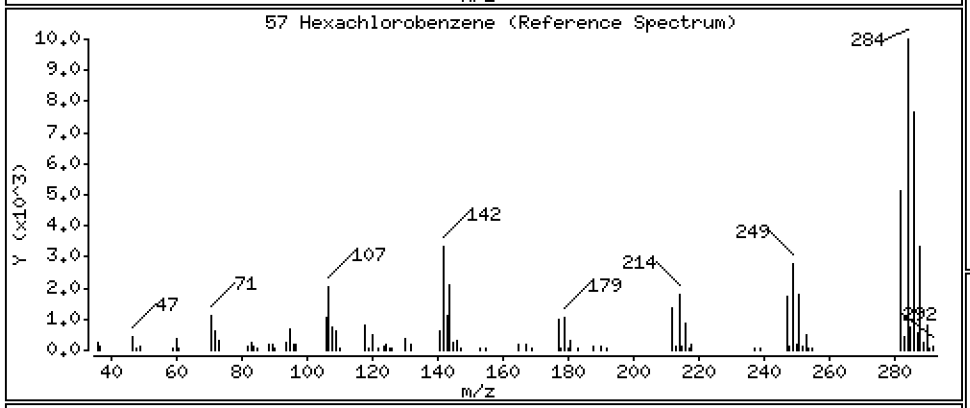
Column diameter: 0.25

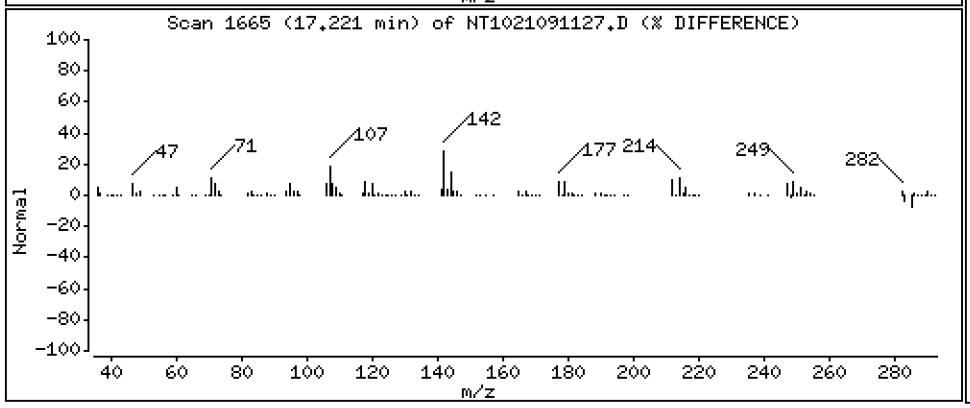
57 Hexachlorobenzene

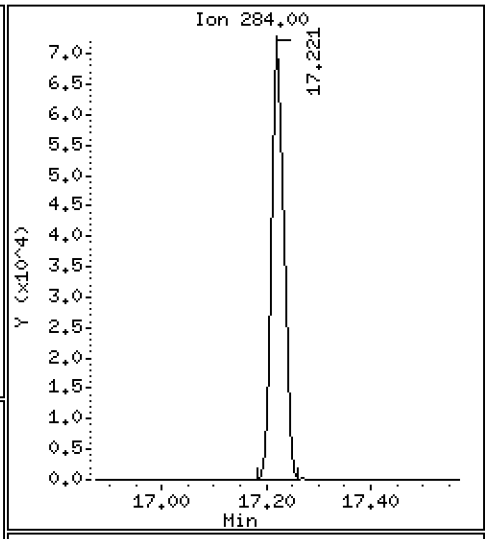
Concentration: 5.589 ug/mL

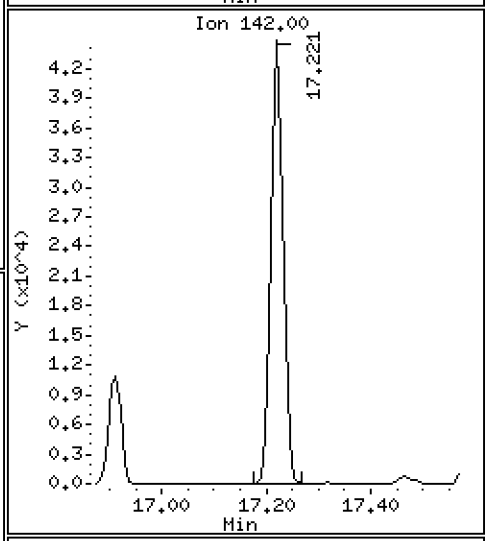


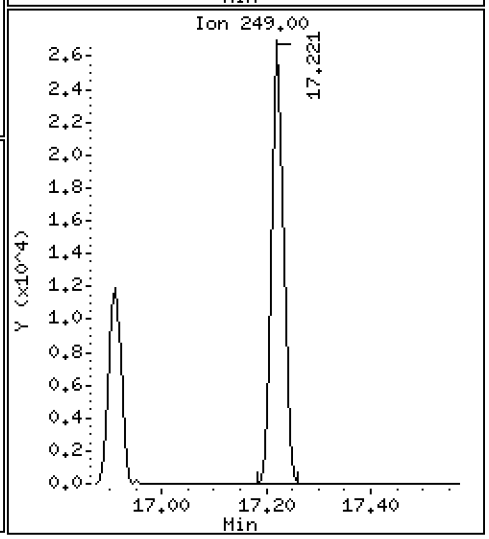












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

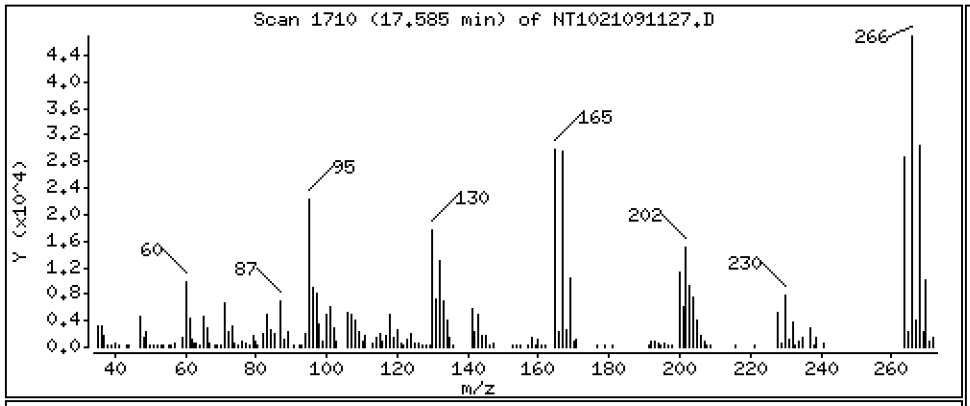
Operator: VTS

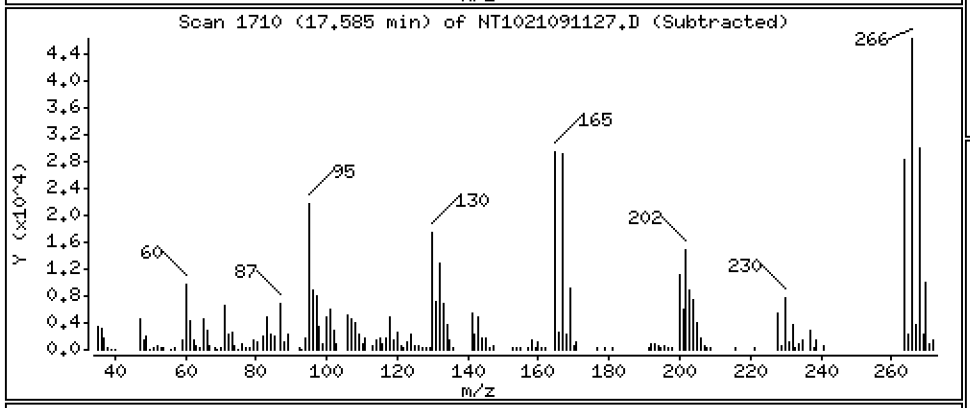
Column phase: ZB-5msi

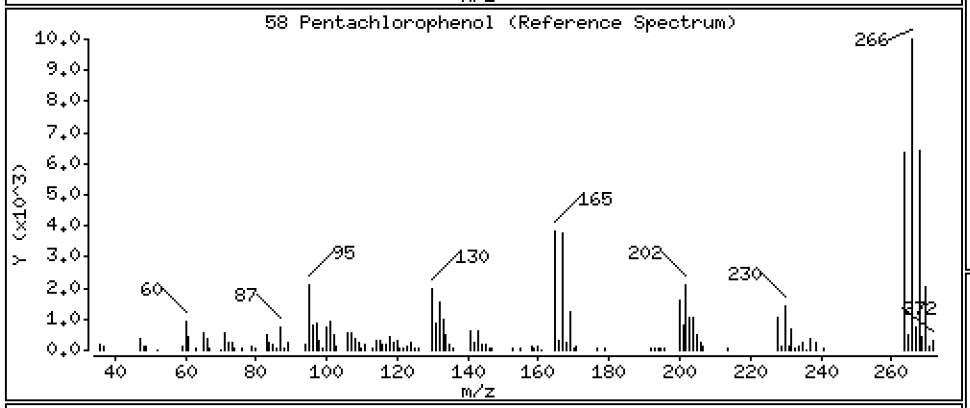
Column diameter: 0.25

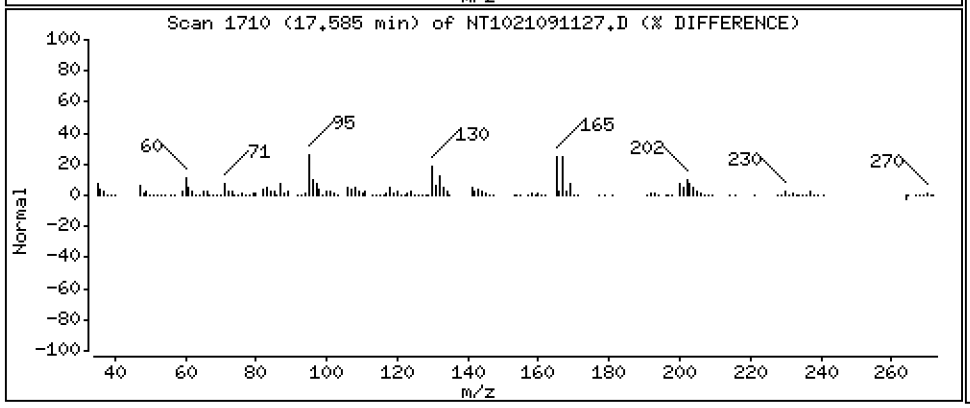
58 Pentachlorophenol

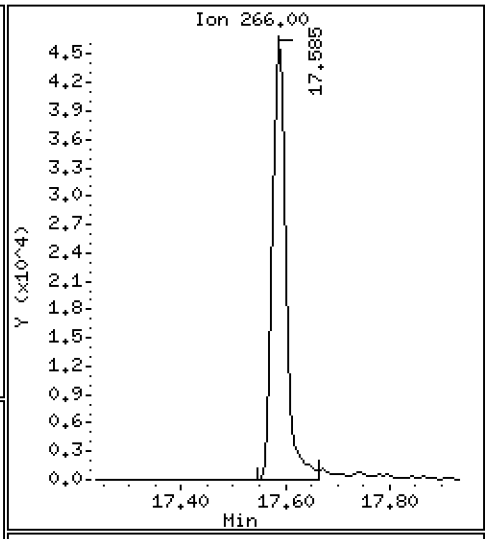
Concentration: 10.43 ug/mL

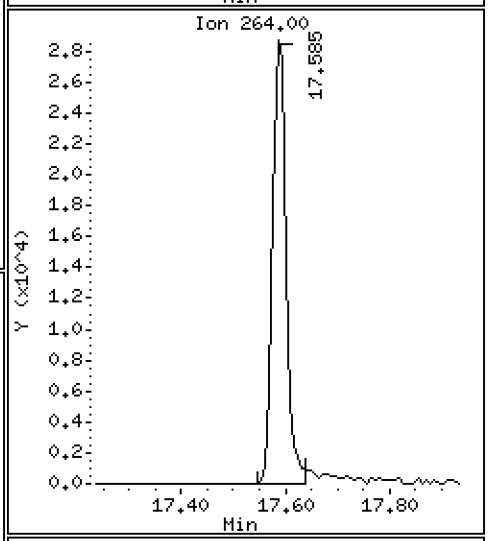


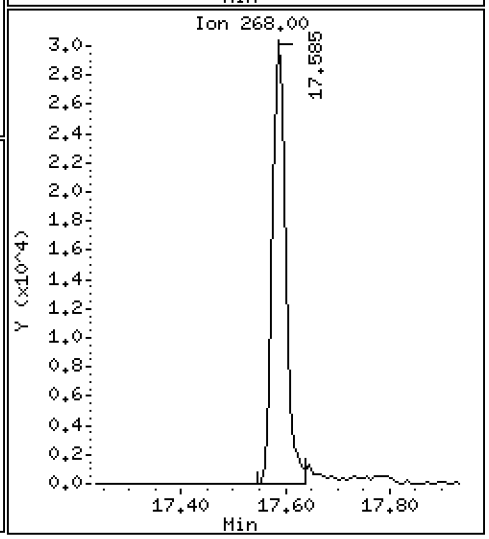












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

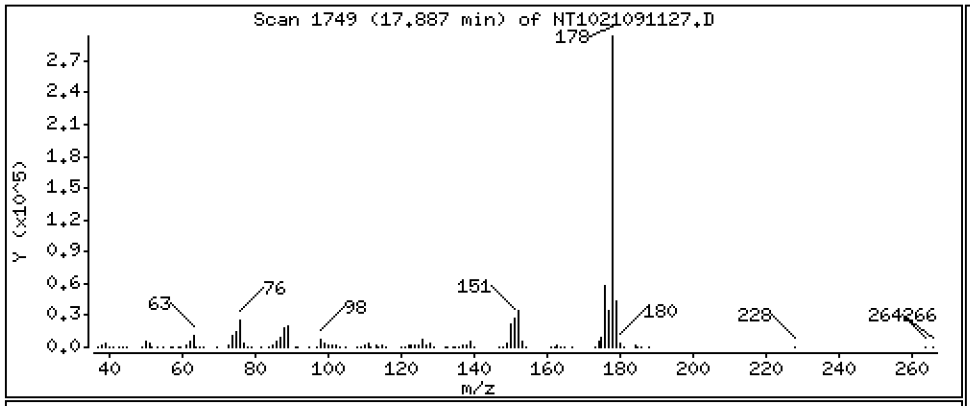
Operator: VTS

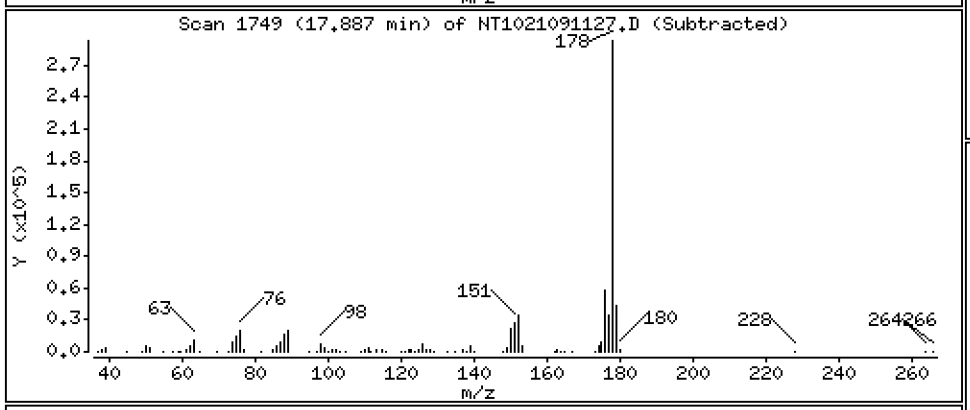
Column phase: ZB-5msi

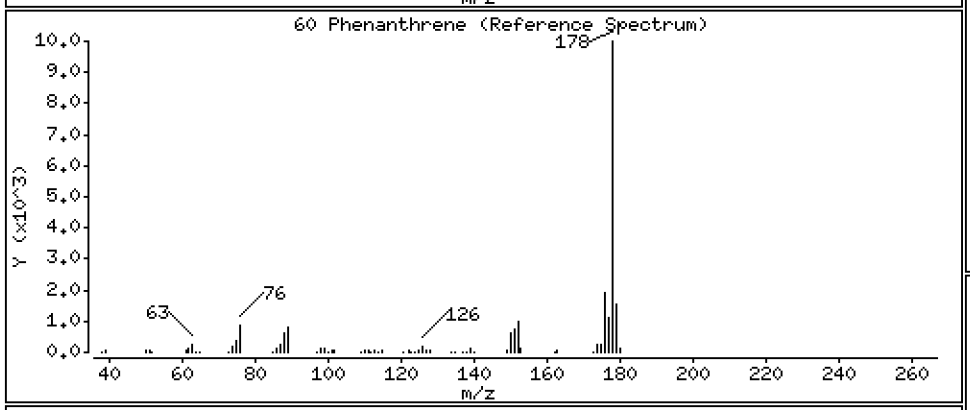
Column diameter: 0.25

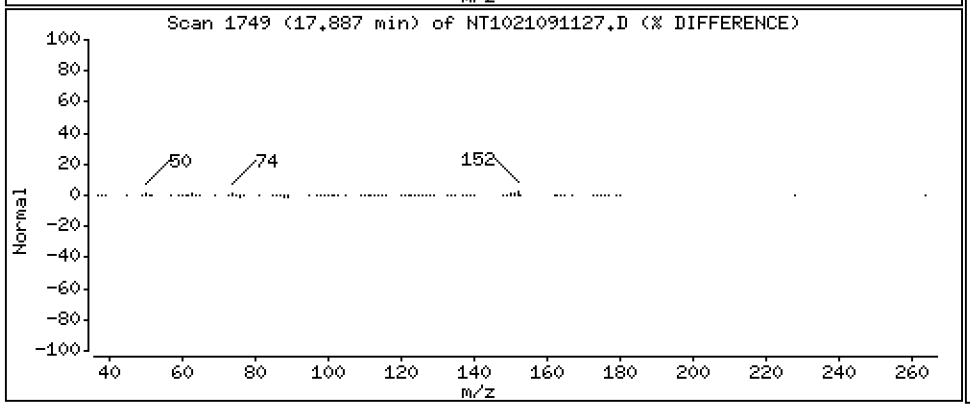
60 Phenanthrene

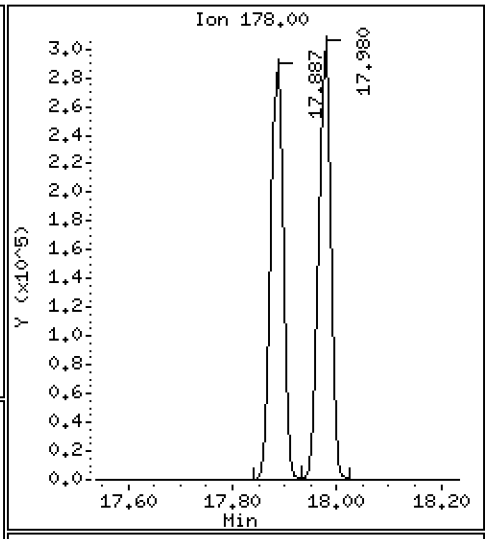
Concentration: 5.209 ug/mL

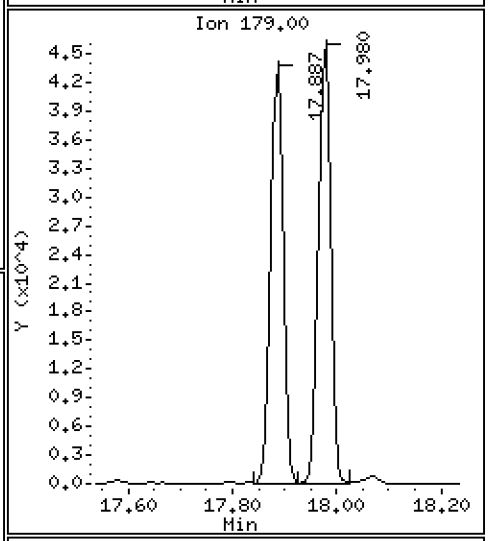


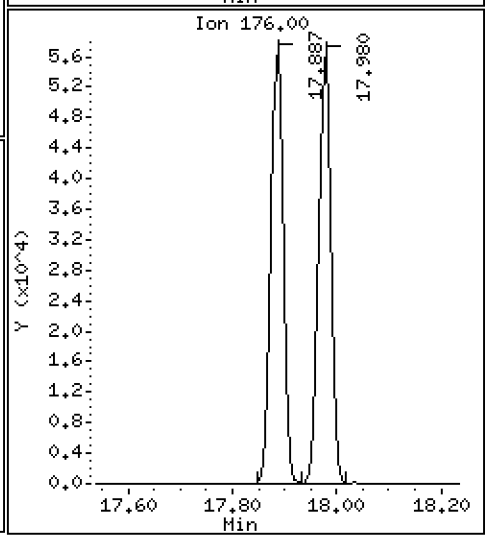












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

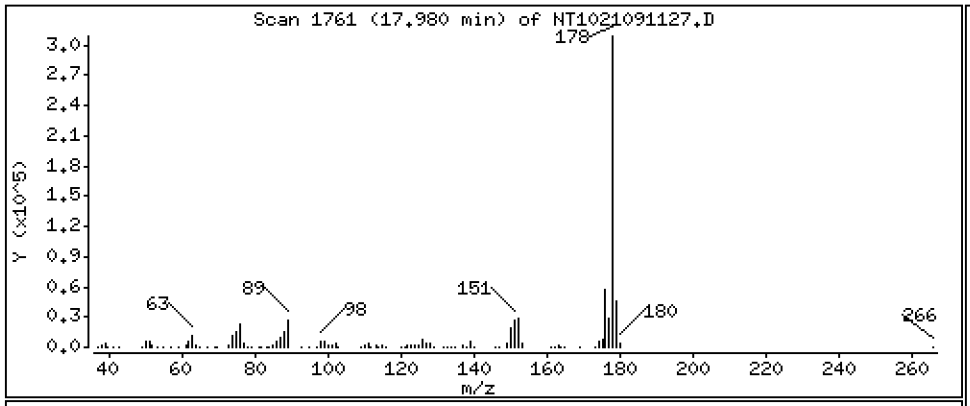
Operator: VTS

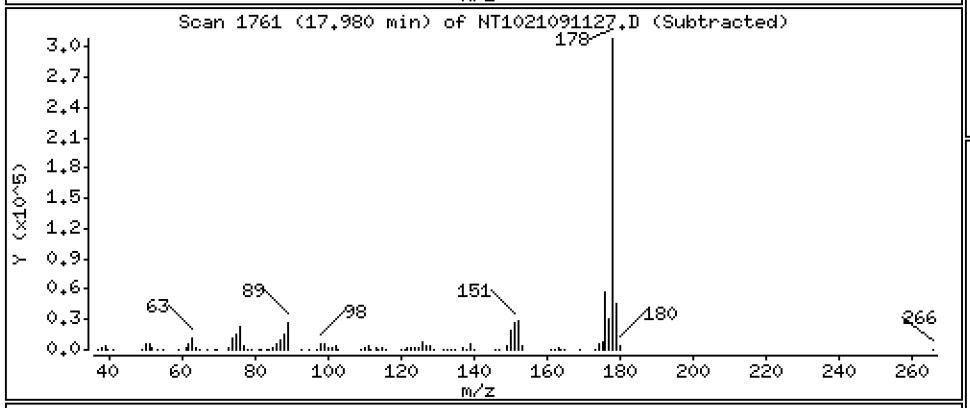
Column phase: ZB-5msi

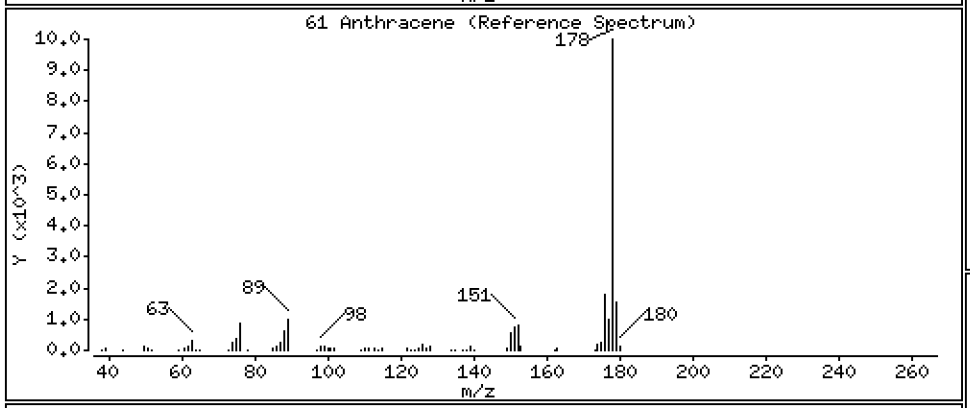
Column diameter: 0.25

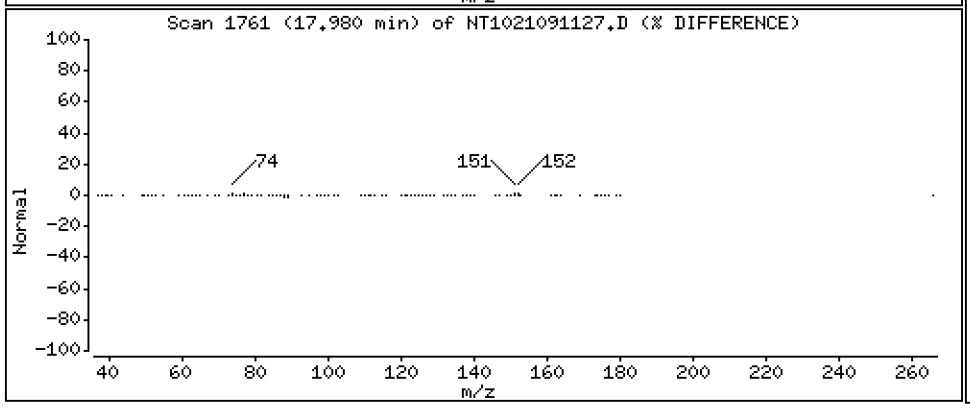
61 Anthracene

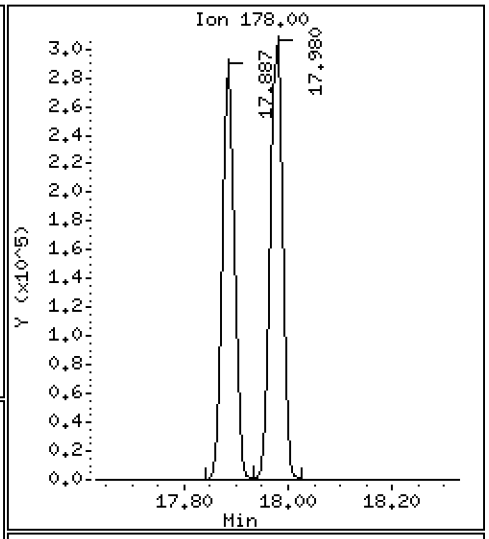
Concentration: 5.029 ug/mL

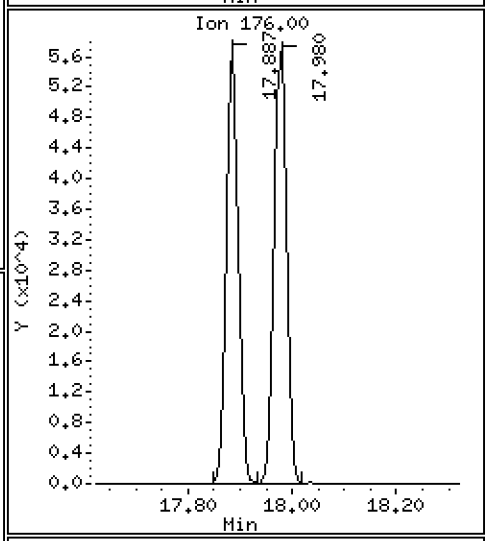


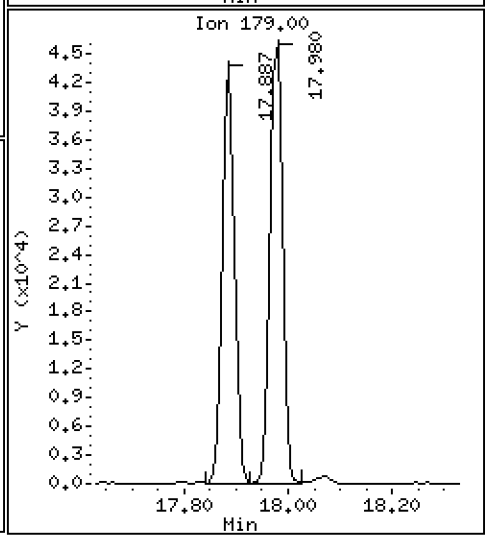












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

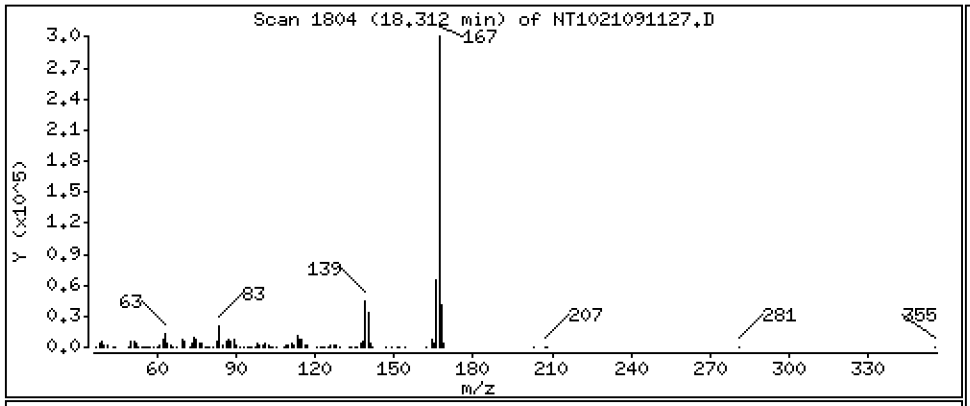
Operator: VTS

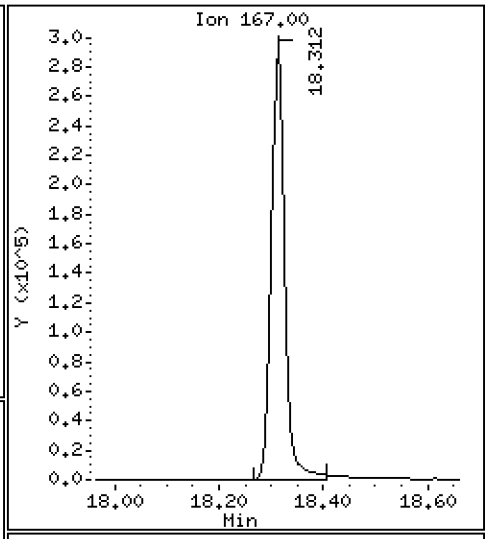
Column phase: ZB-5msi

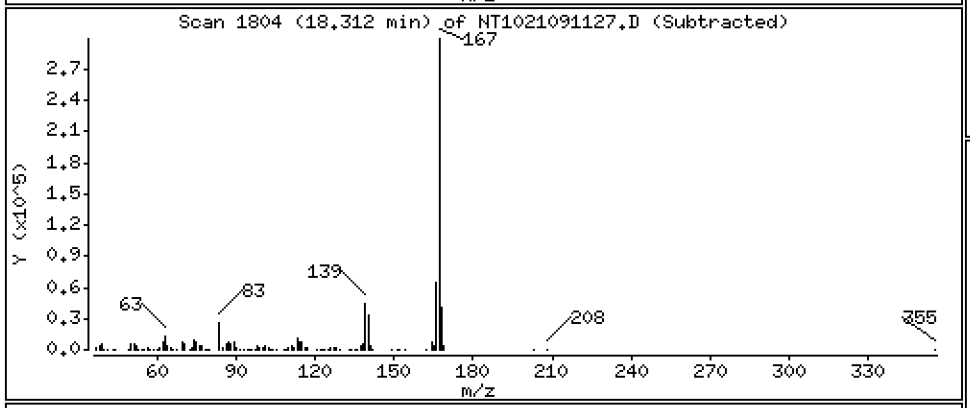
Column diameter: 0.25

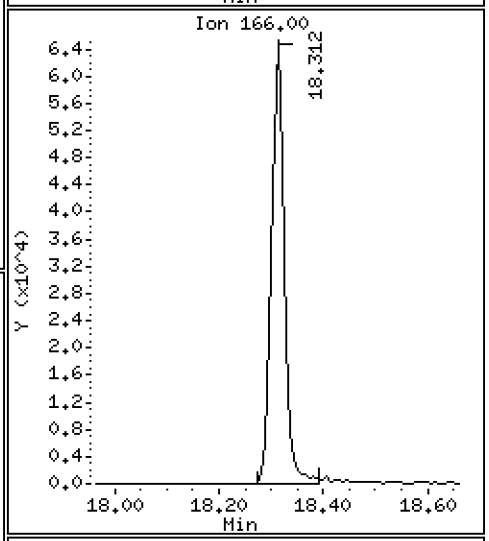
62 Carbazole

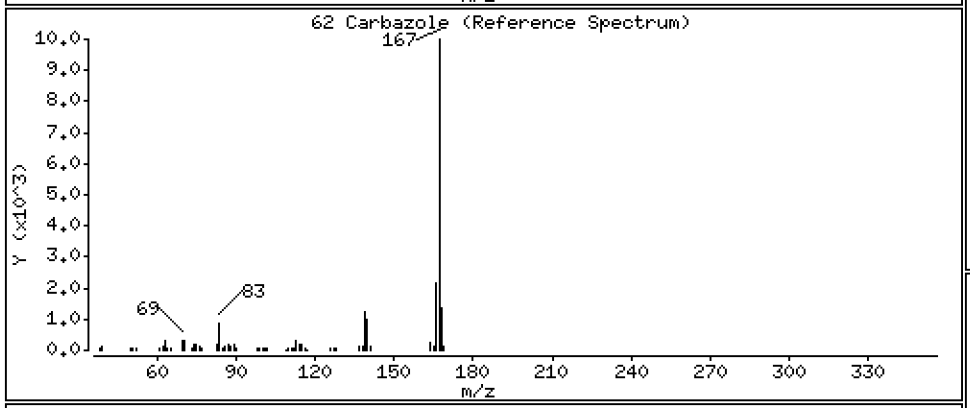
Concentration: 5.062 ug/mL

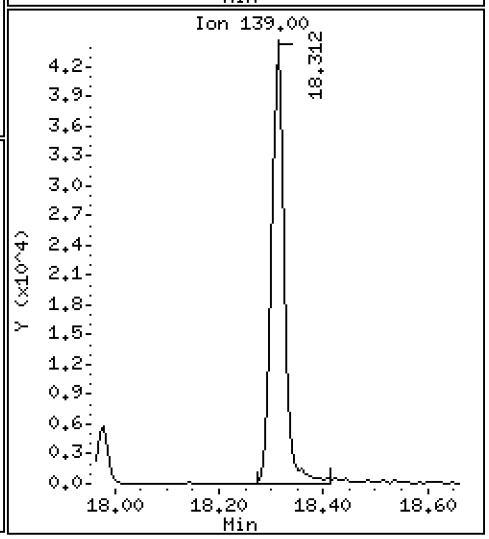


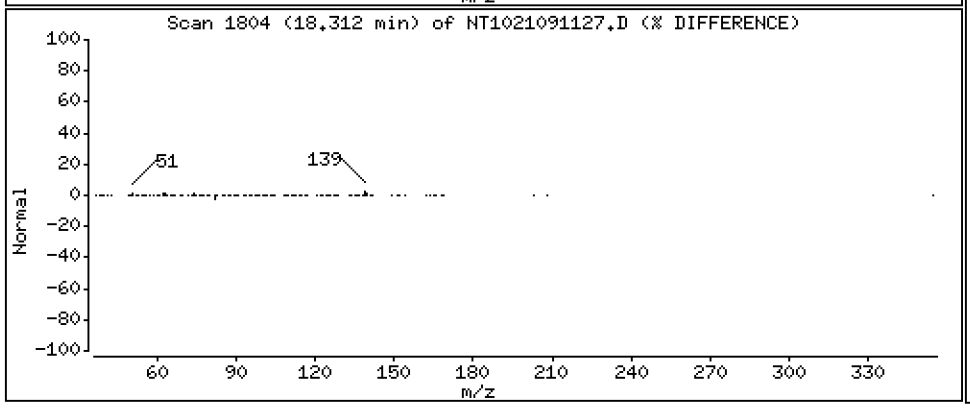












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

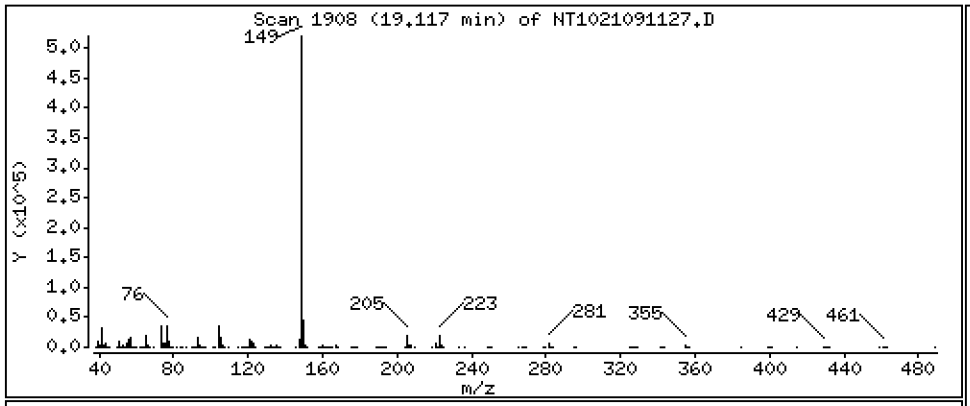
Operator: VTS

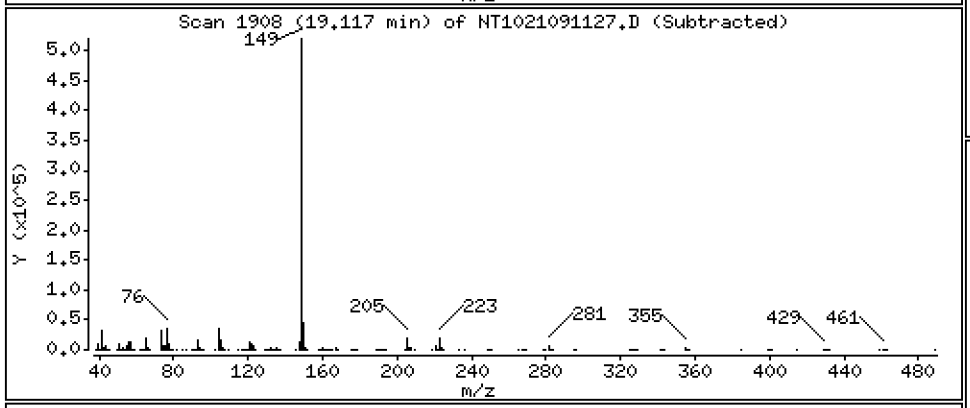
Column phase: ZB-5msi

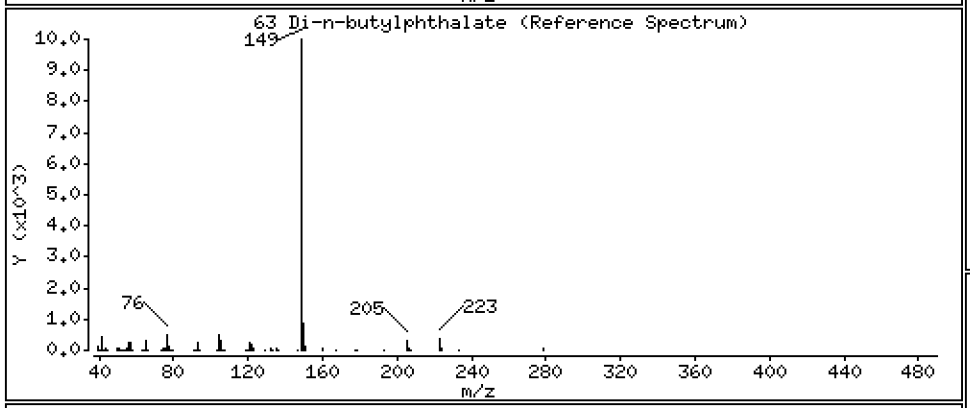
Column diameter: 0.25

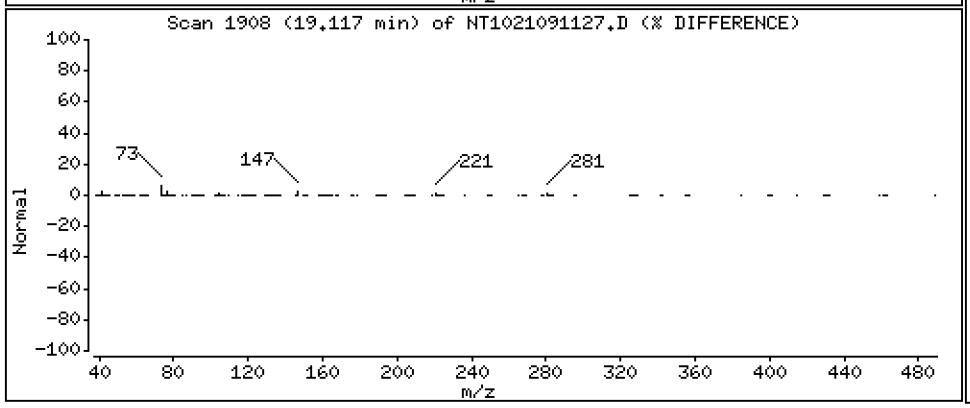
63 Di-n-butylphthalate

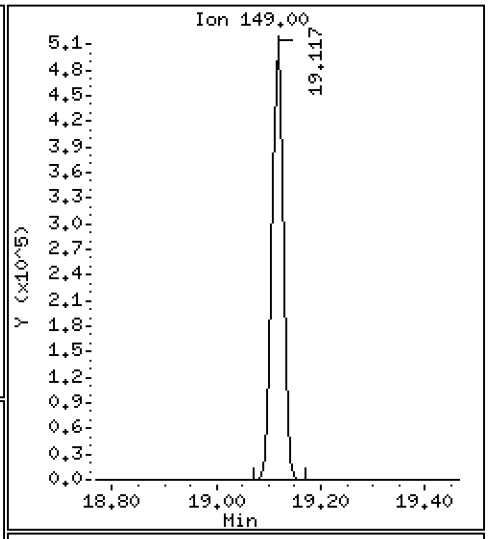
Concentration: 5.990 ug/mL

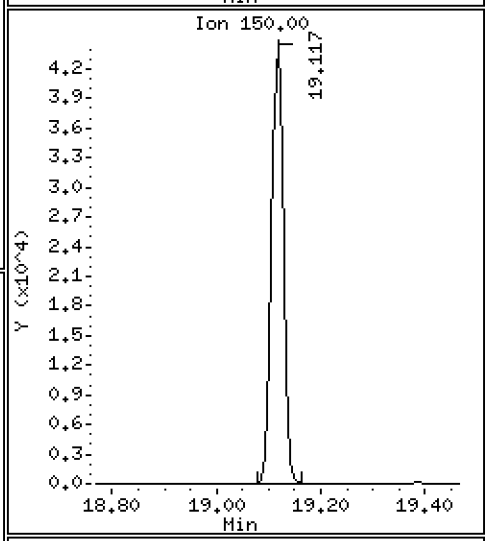


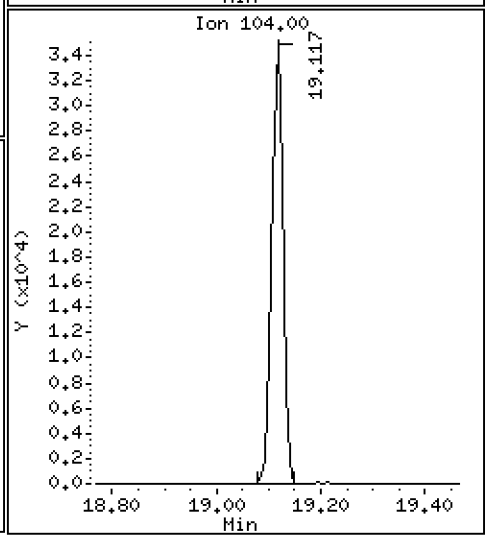












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

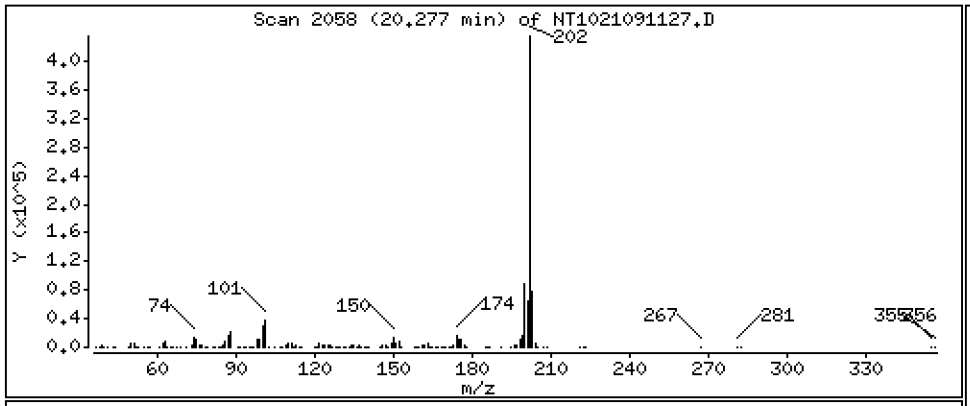
Operator: VTS

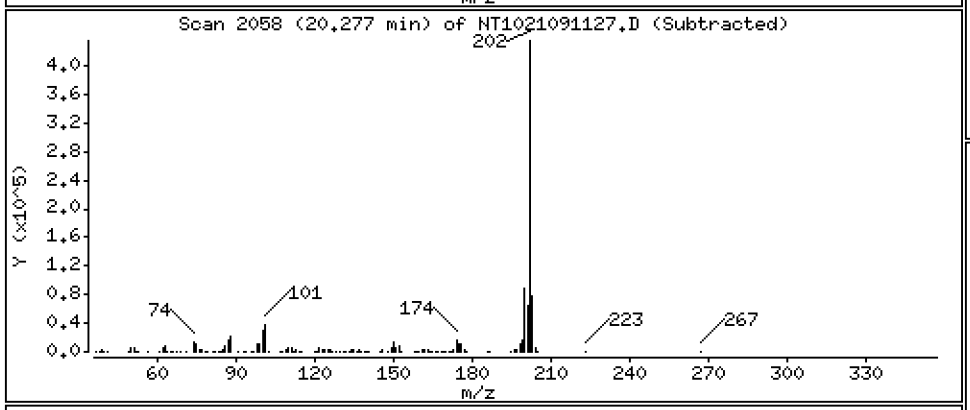
Column phase: ZB-5msi

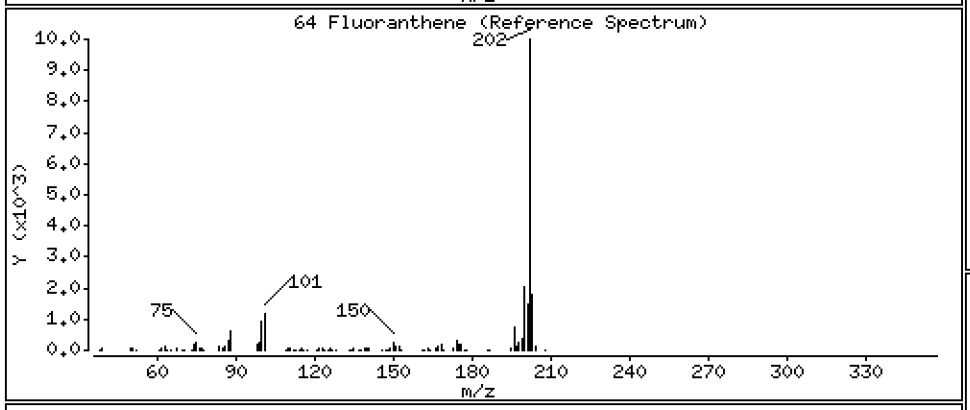
Column diameter: 0.25

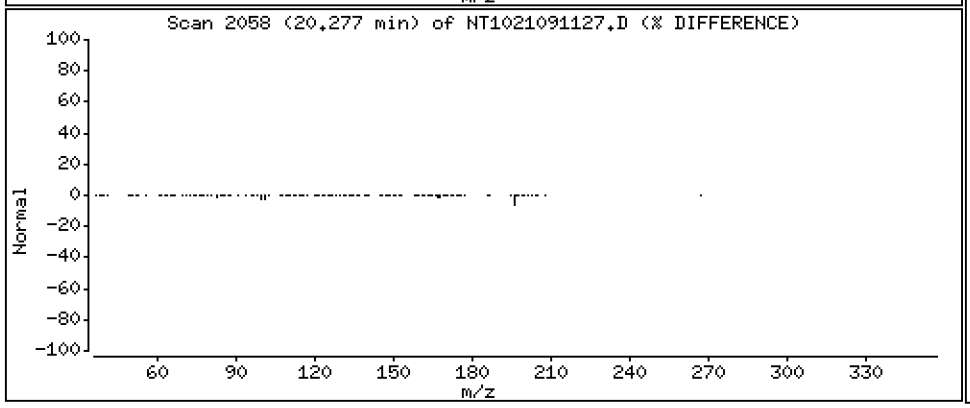
64 Fluoranthene

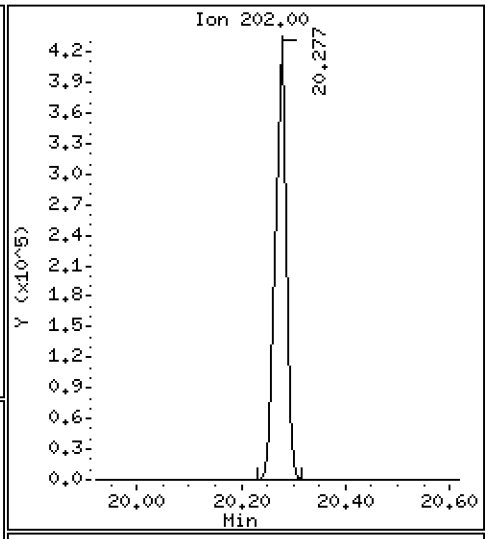
Concentration: 7.374 ug/mL

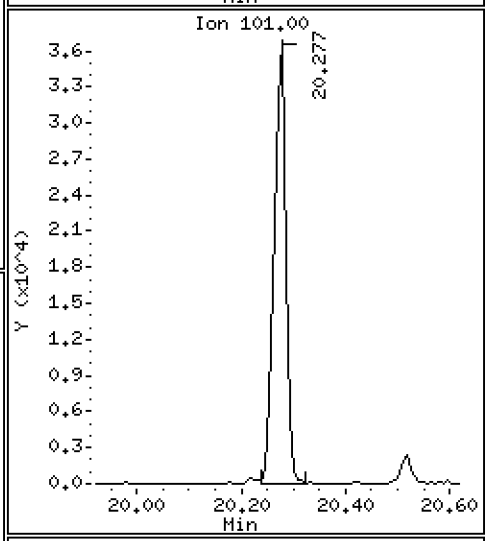


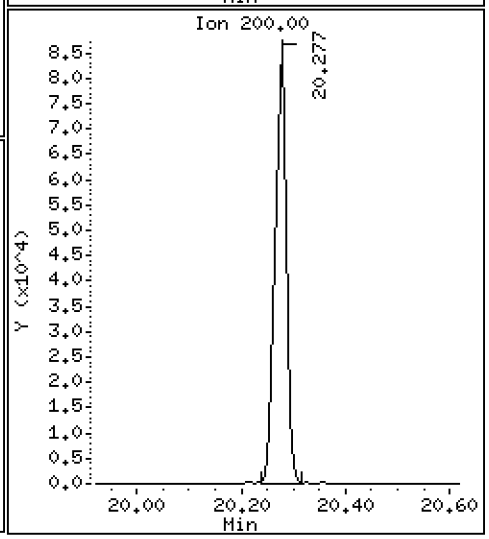












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

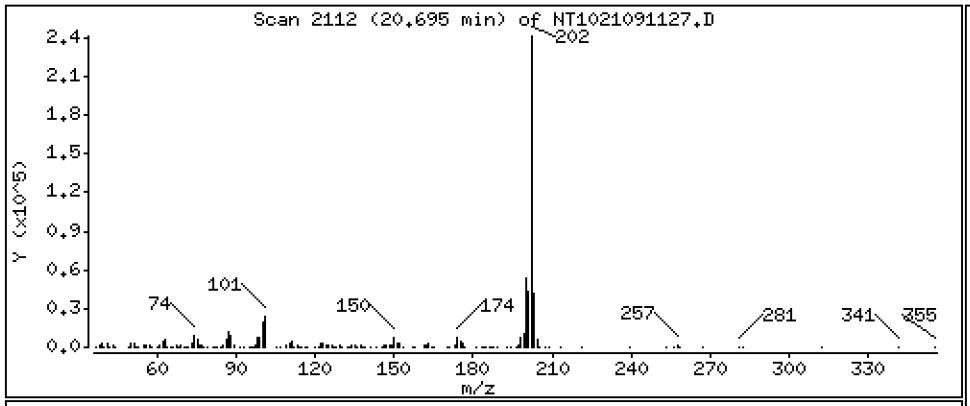
Operator: VTS

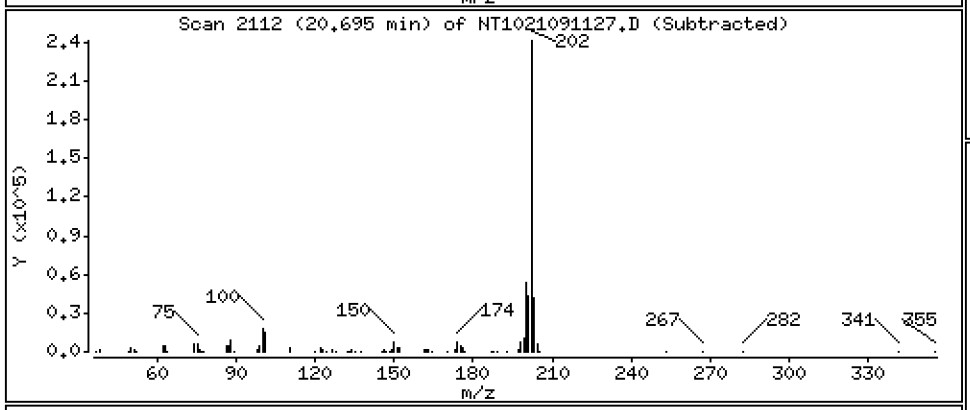
Column phase: ZB-5msi

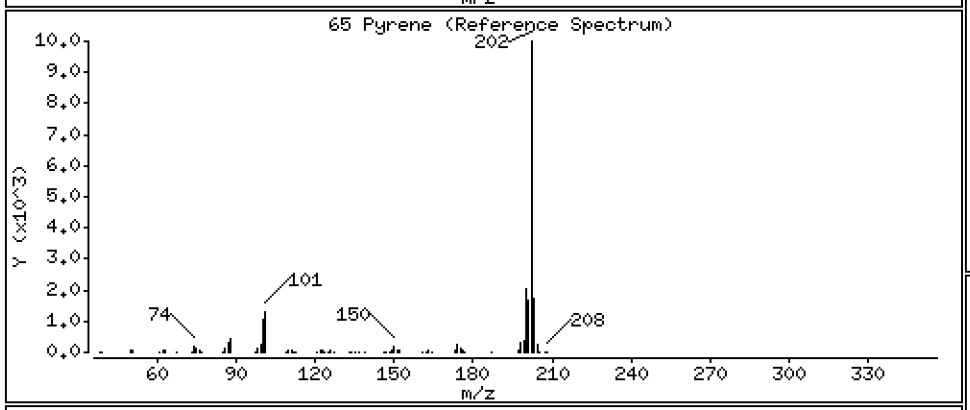
Column diameter: 0.25

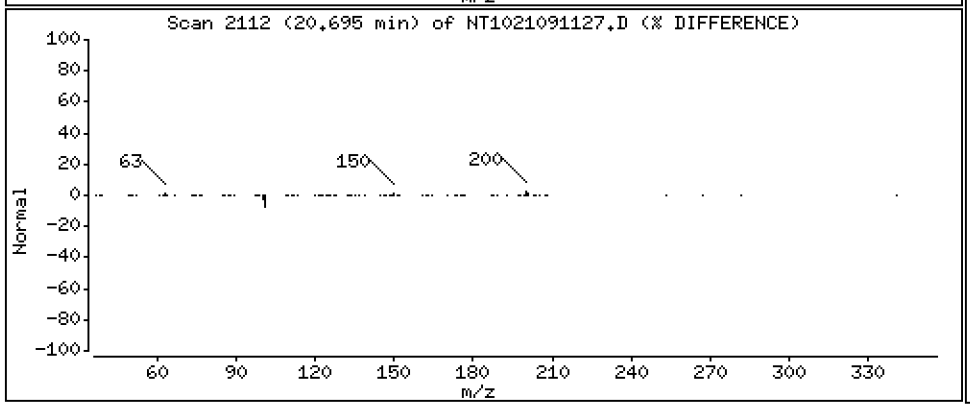
65 Pyrene

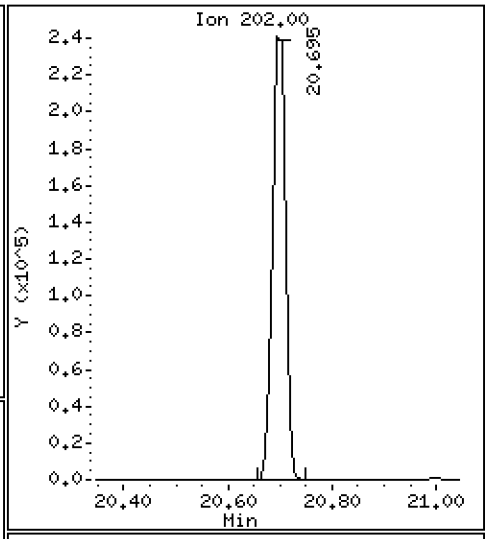
Concentration: 4.665 ug/mL

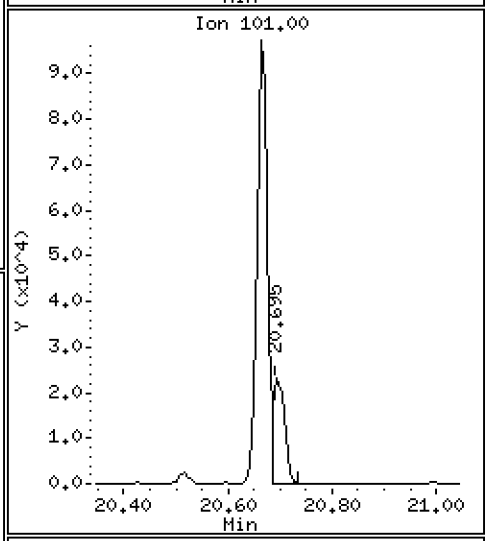


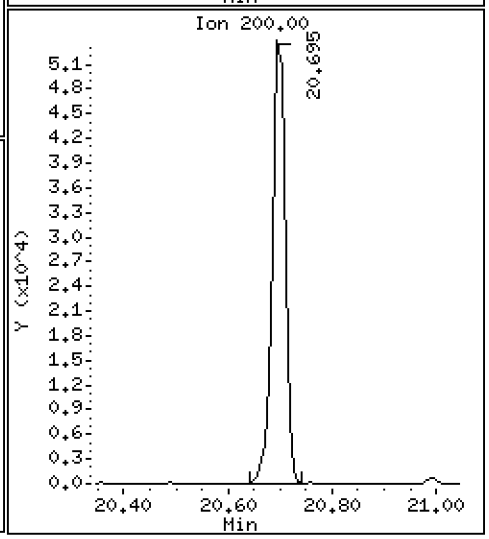












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

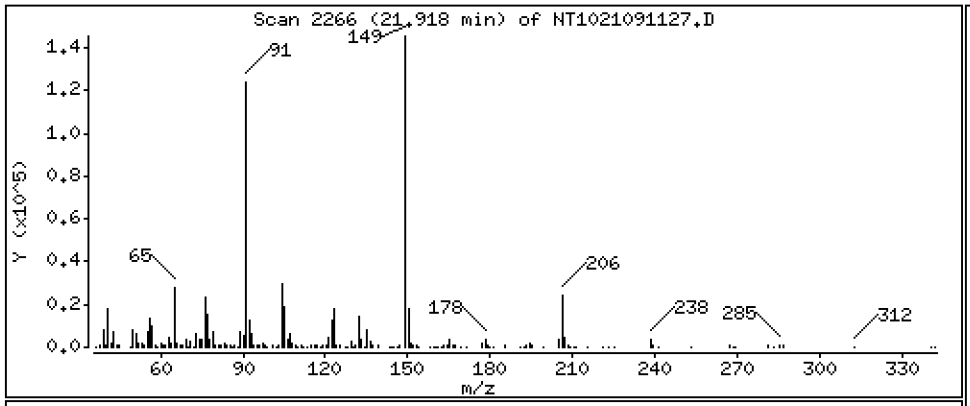
Operator: VTS

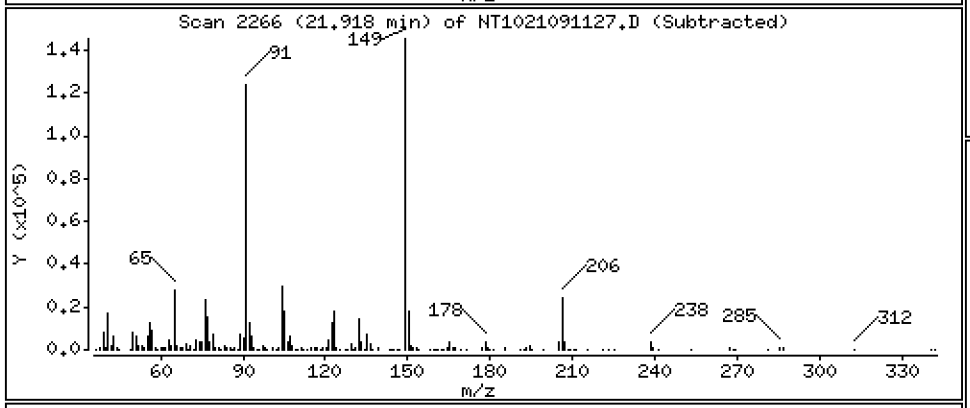
Column phase: ZB-5msi

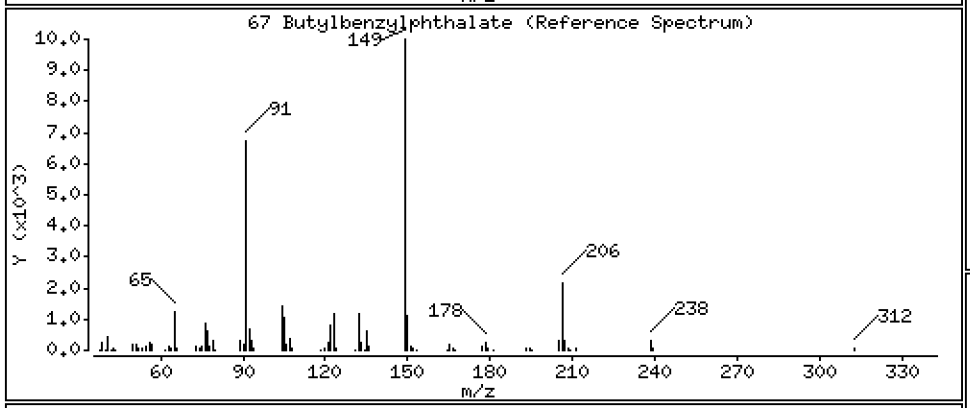
Column diameter: 0.25

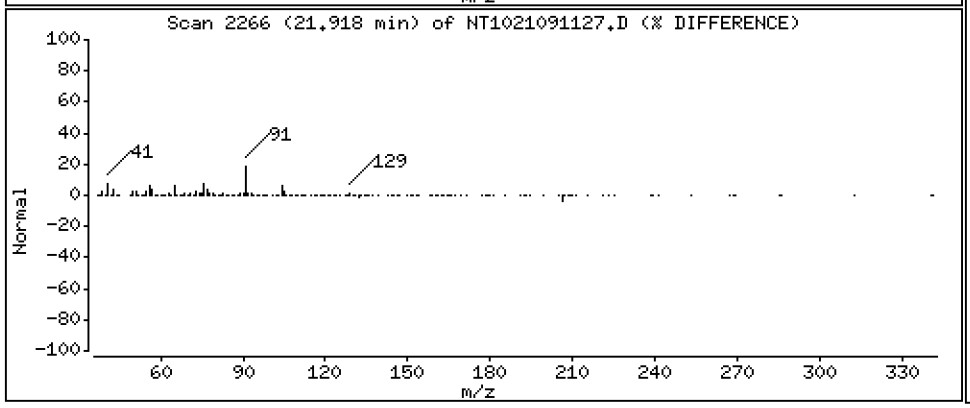
67 Butylbenzylphthalate

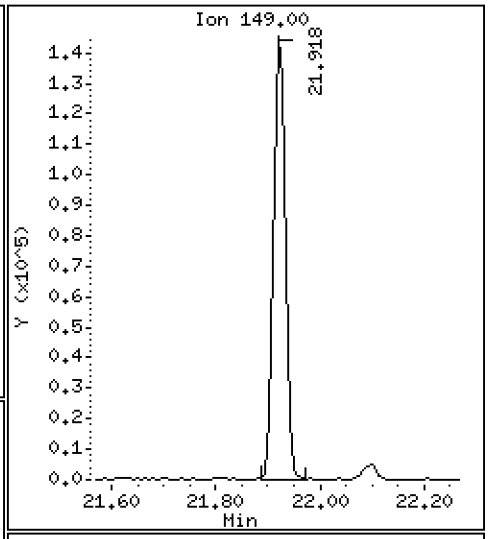
Concentration: 6.529 ug/mL

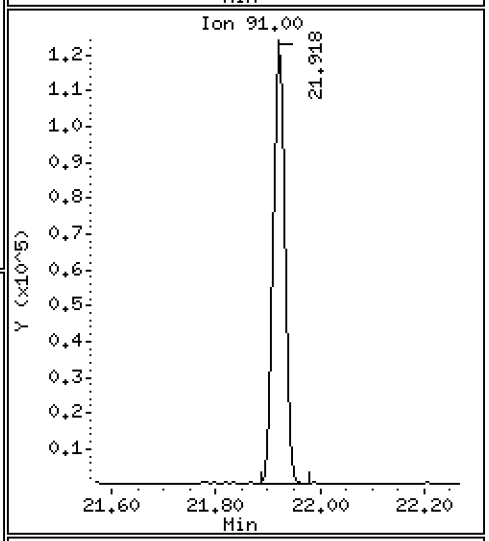


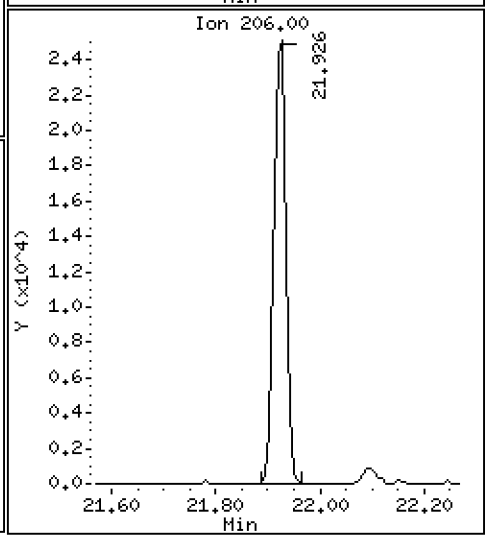












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

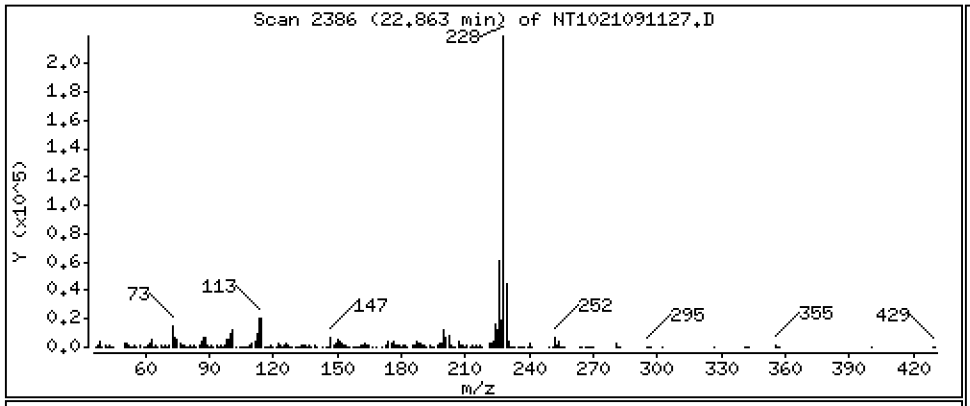
Operator: VTS

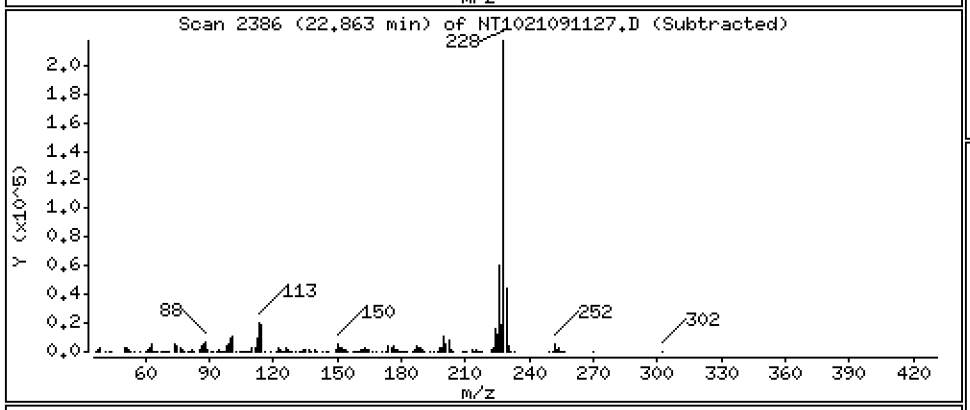
Column phase: ZB-5msi

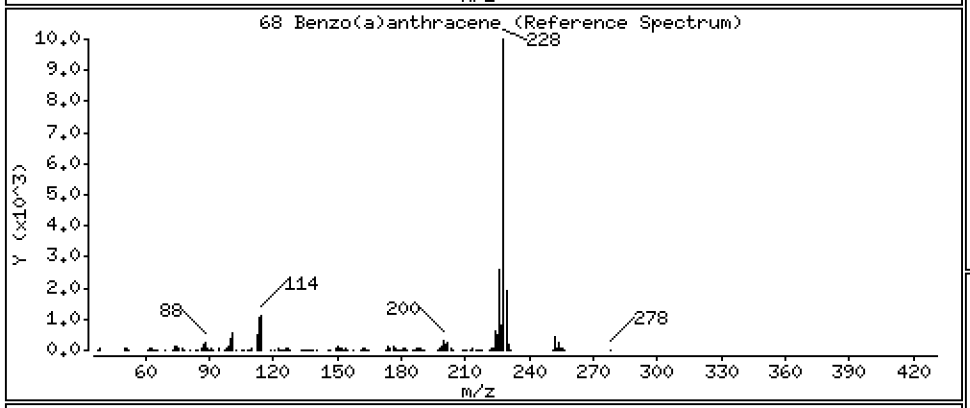
Column diameter: 0.25

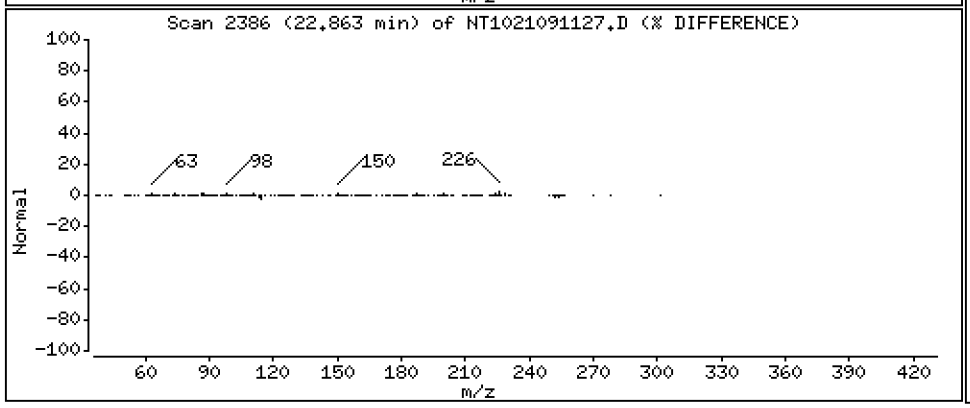
68 Benzo(a)anthracene

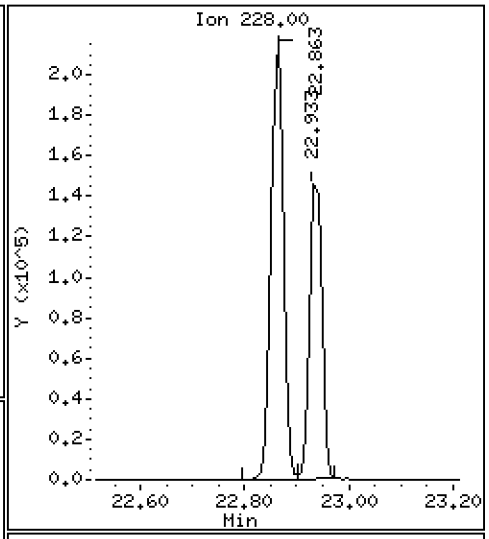
Concentration: 5.153 ug/mL

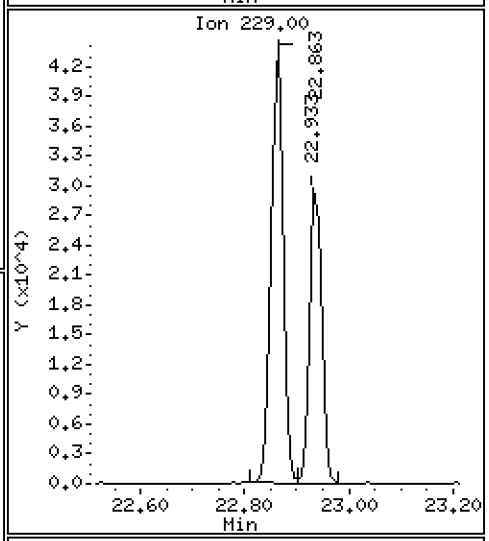


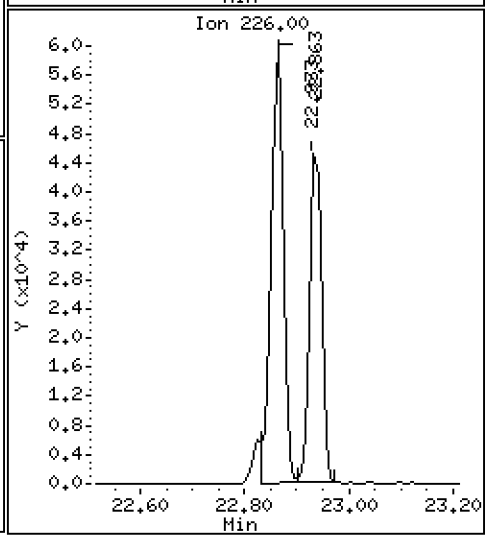












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

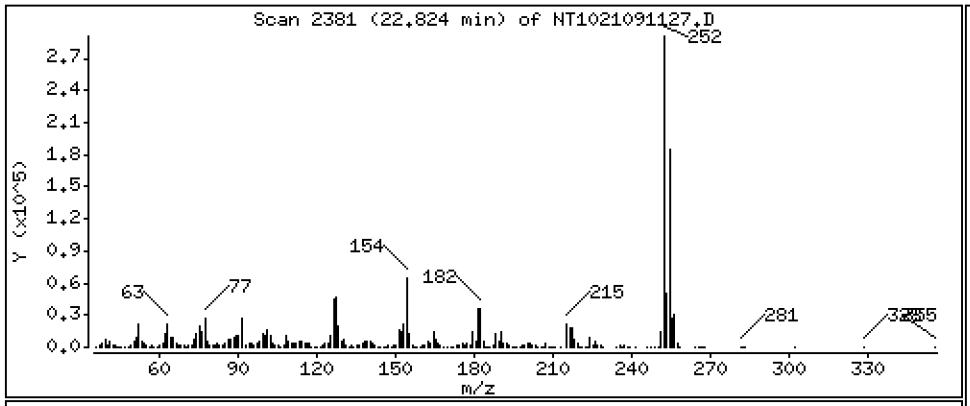
Operator: VTS

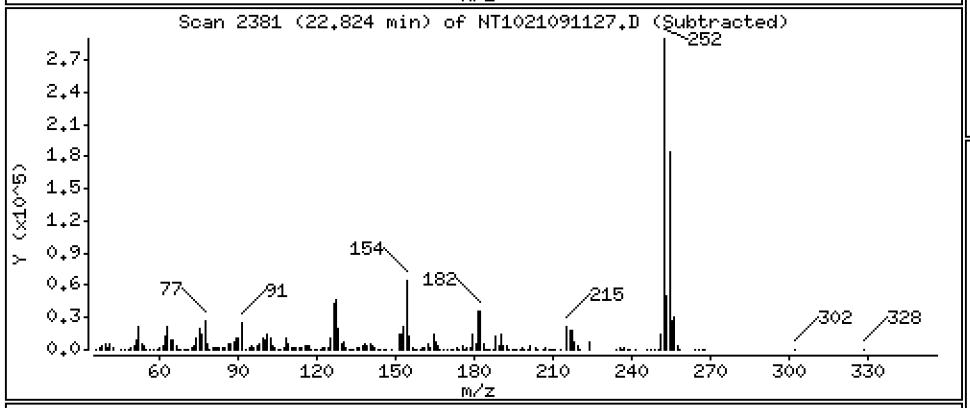
Column phase: ZB-5msi

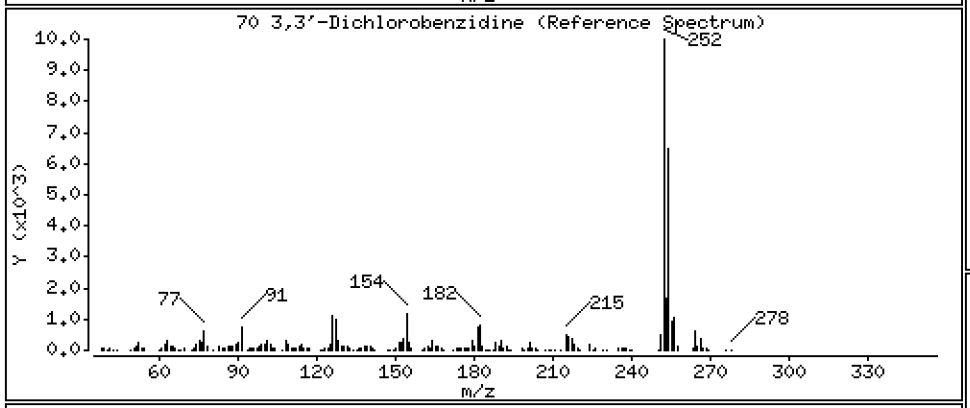
Column diameter: 0.25

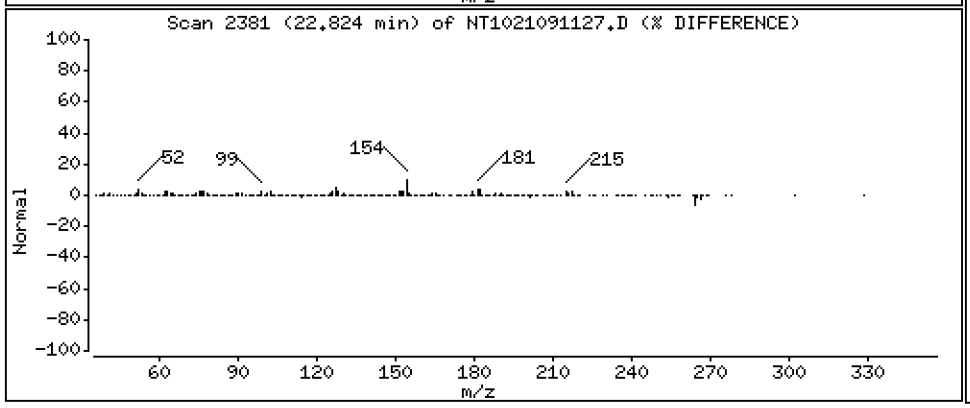
70 3,3'-Dichlorobenzidine

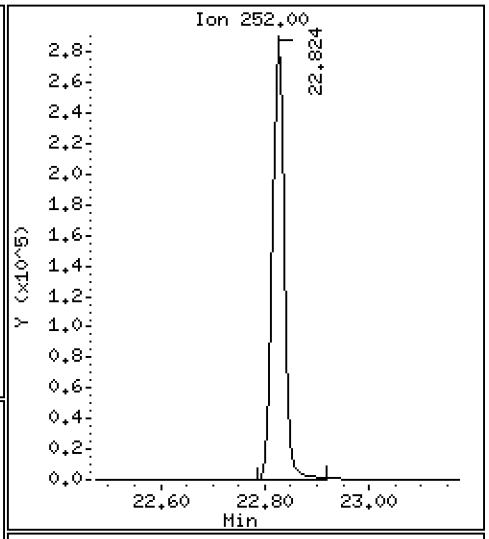
Concentration: 16.36 ug/mL

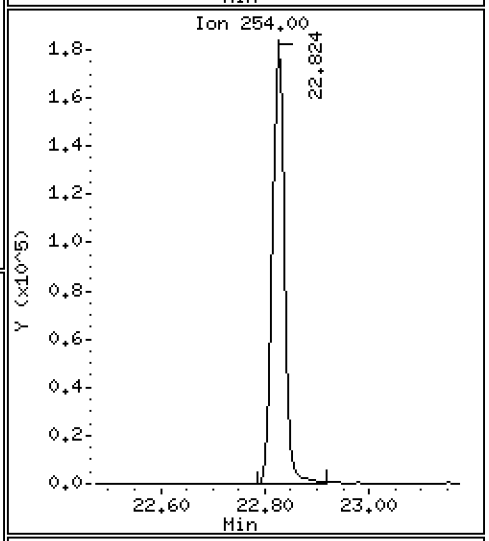


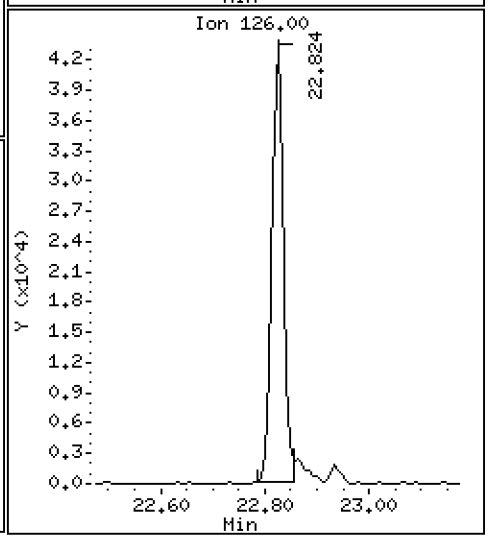












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

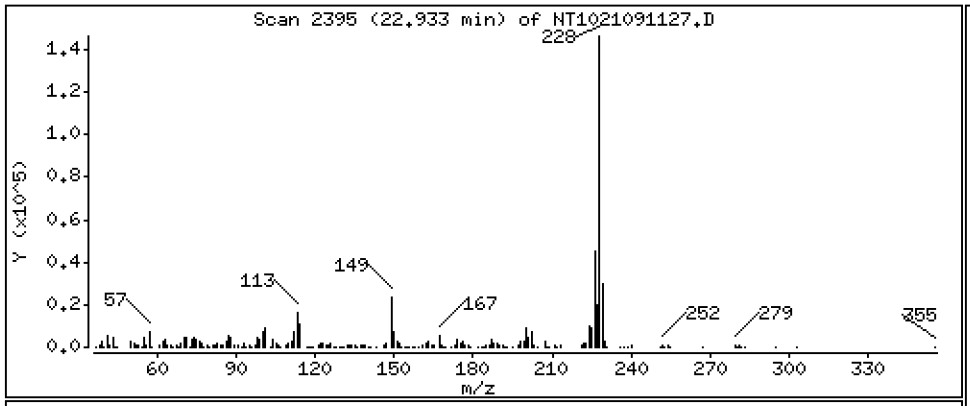
Operator: VTS

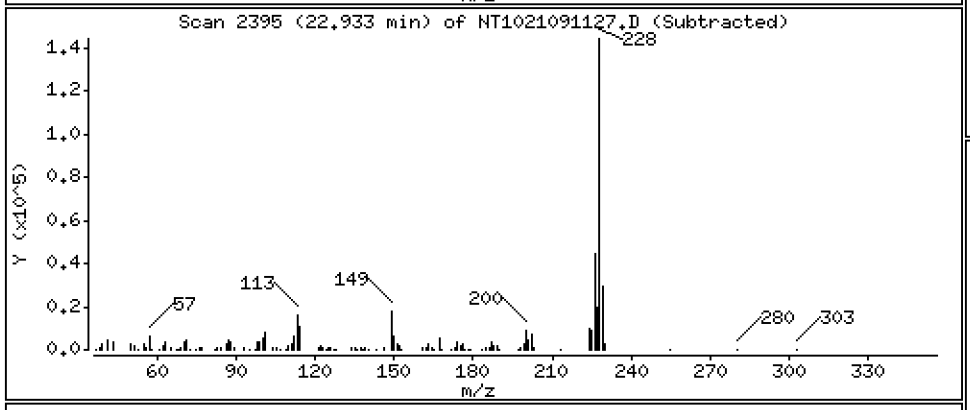
Column phase: ZB-5msi

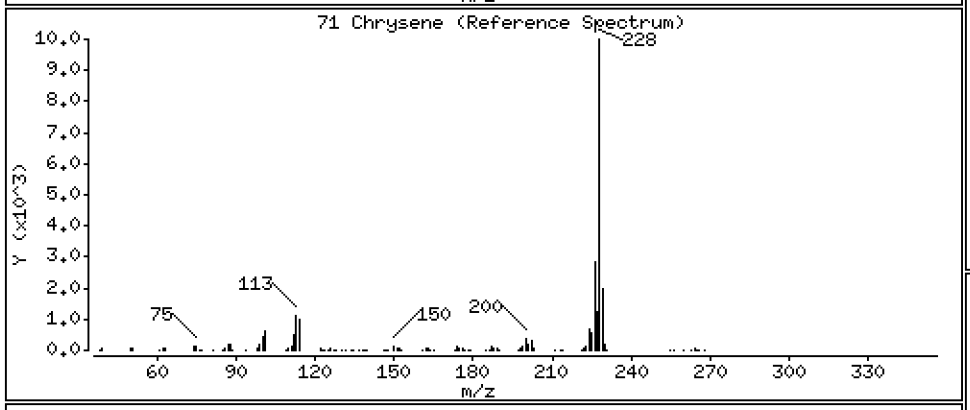
Column diameter: 0.25

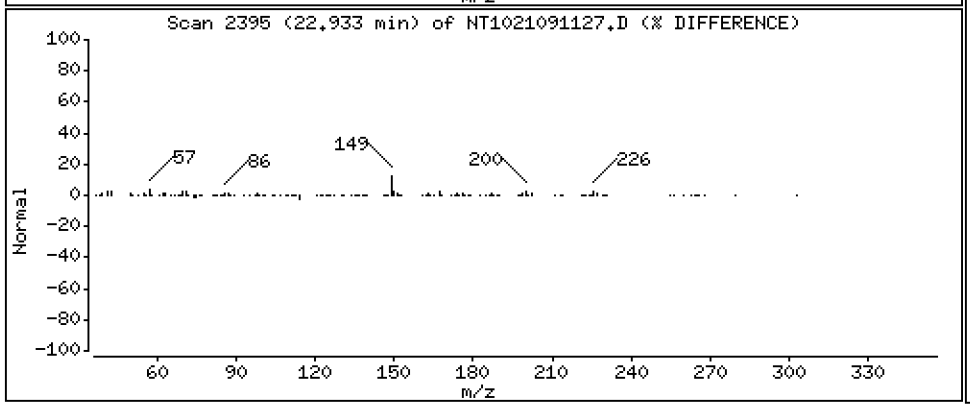
71 Chrysene

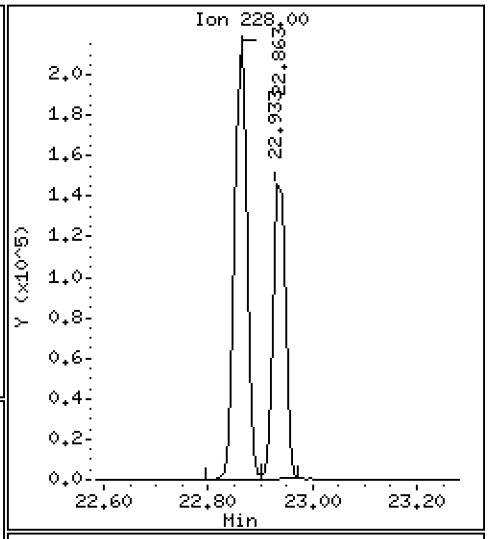
Concentration: 4.332 ug/mL

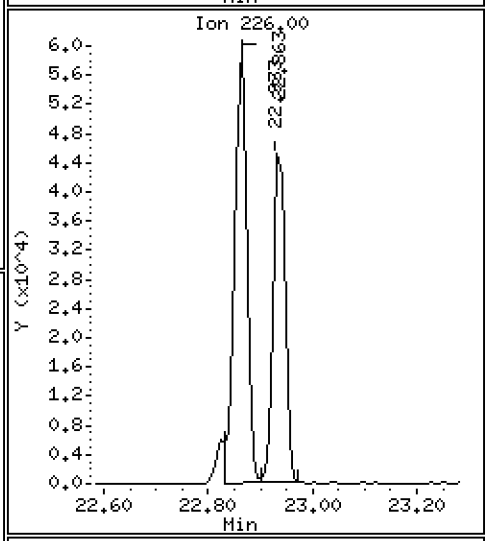


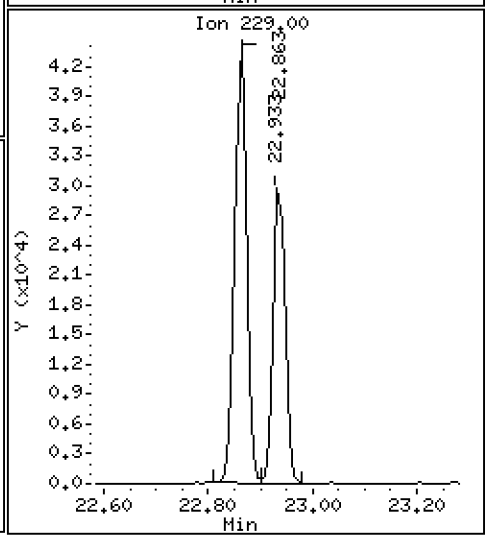












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

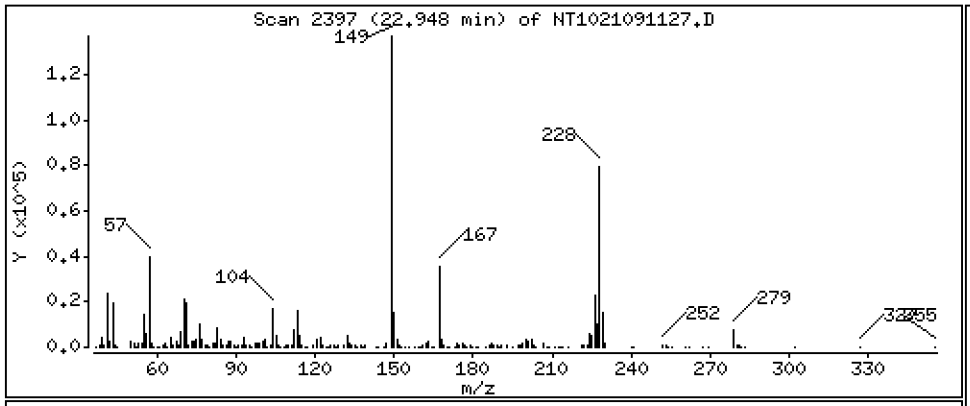
Operator: VTS

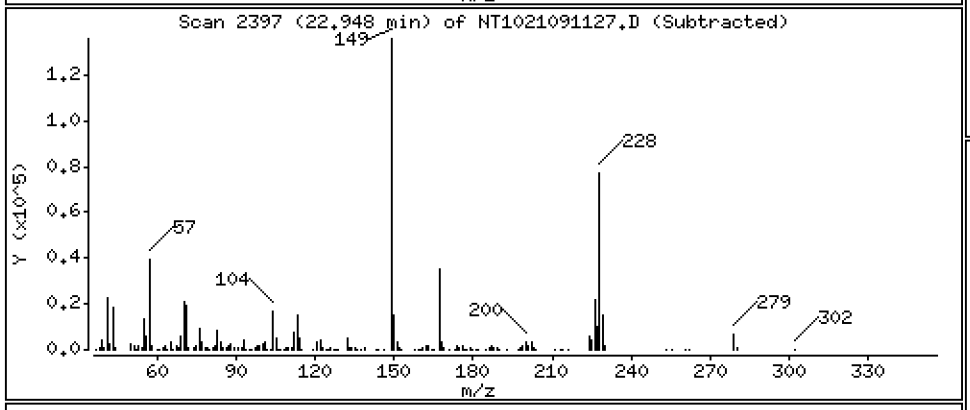
Column phase: ZB-5msi

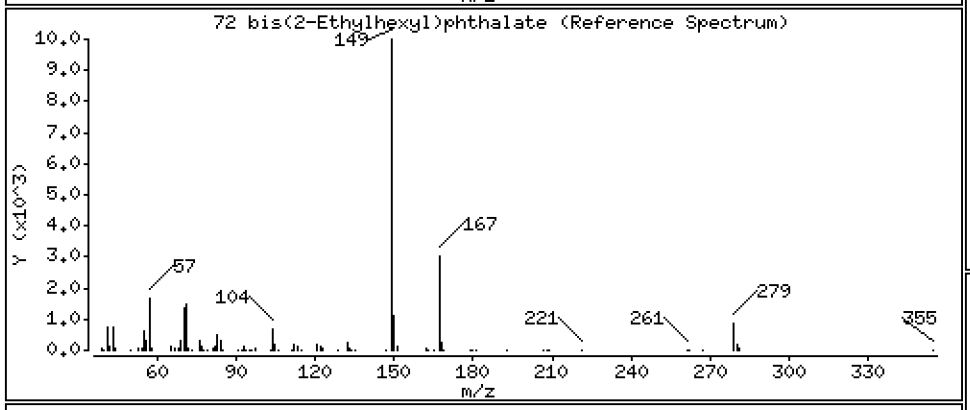
Column diameter: 0.25

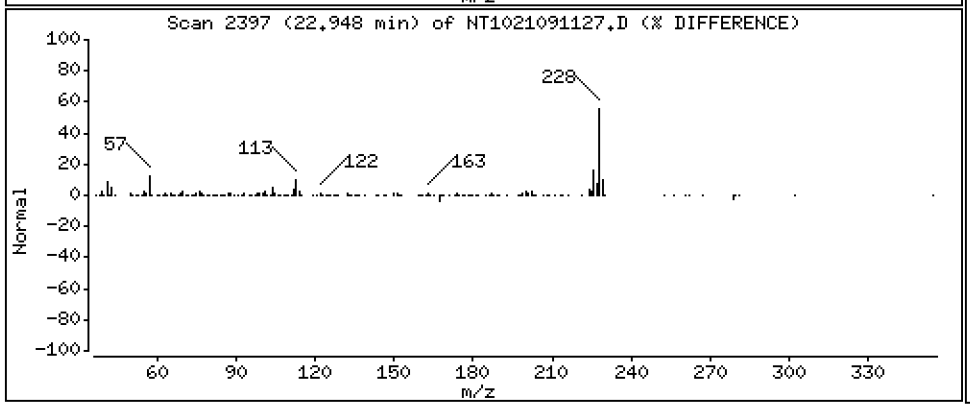
72 bis(2-Ethylhexyl)phthalate

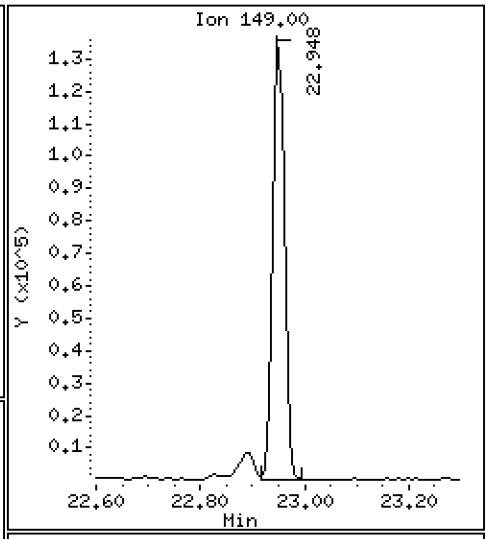
Concentration: 5.732 ug/mL

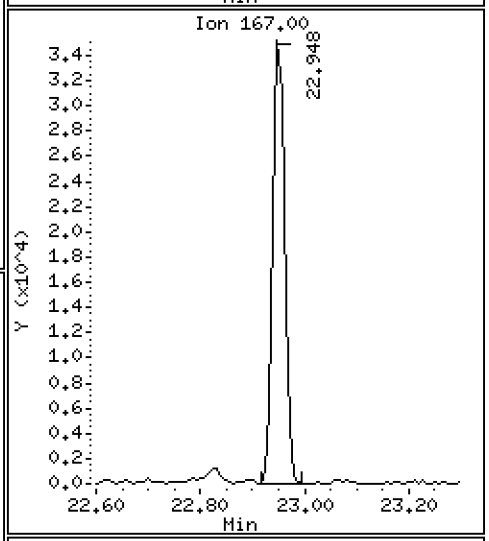


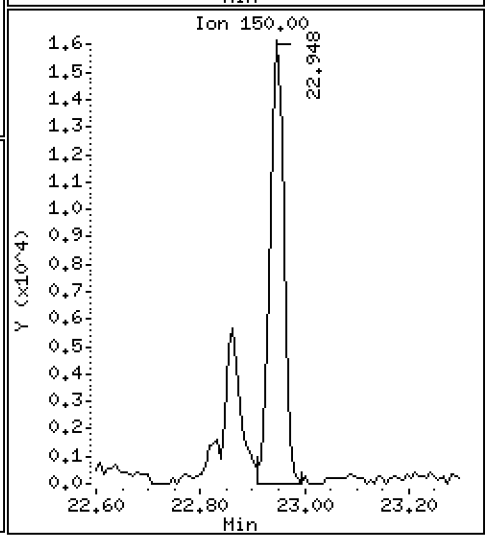












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

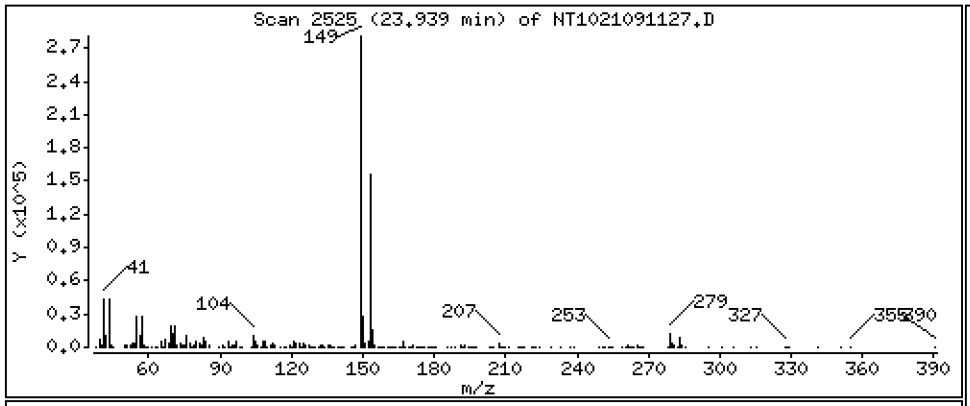
Operator: VTS

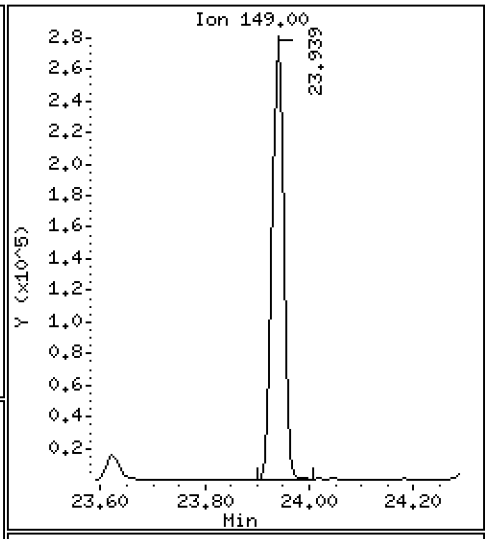
Column phase: ZB-5msi

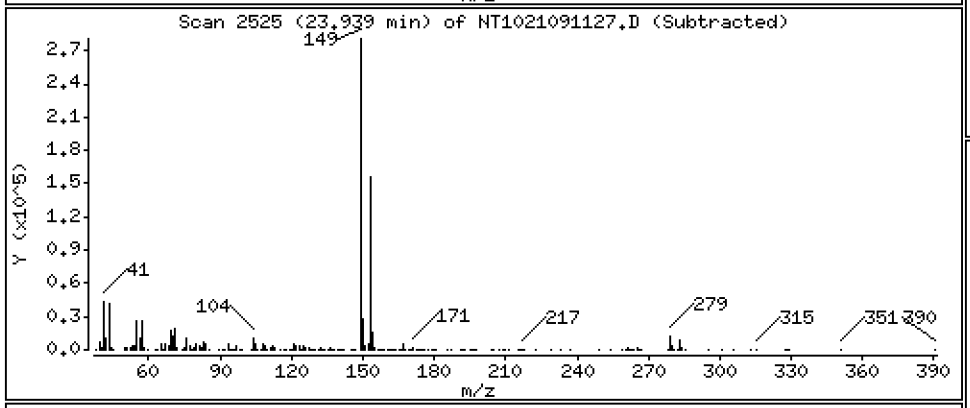
Column diameter: 0.25

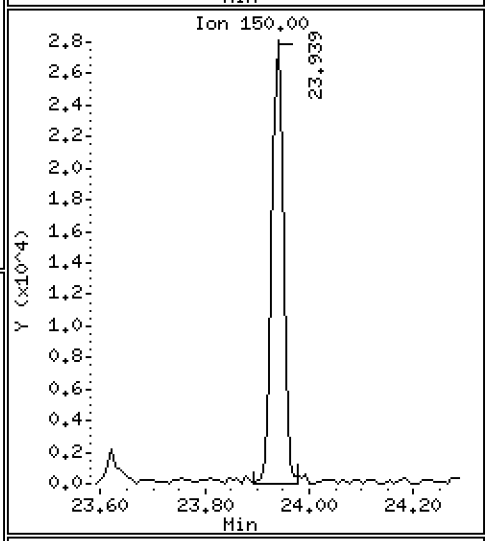
73 Di-n-octylphthalate

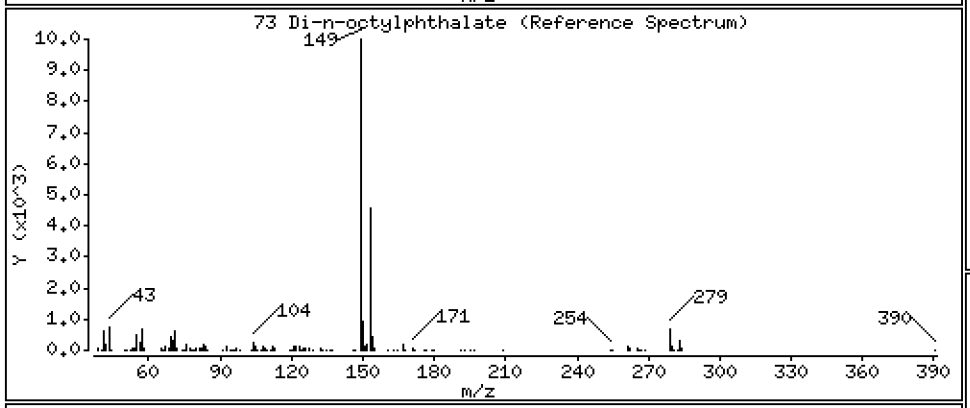
Concentration: 5.100 ug/mL

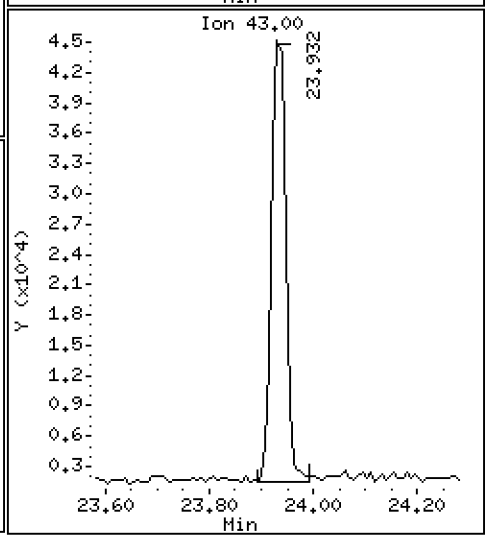


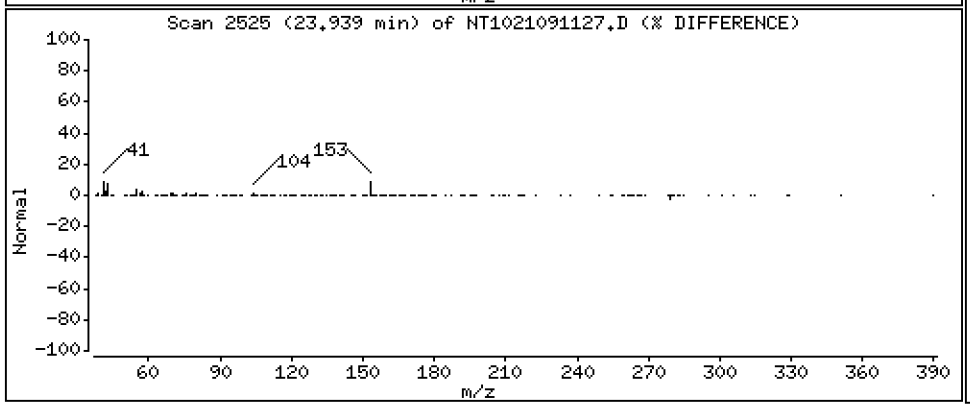












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

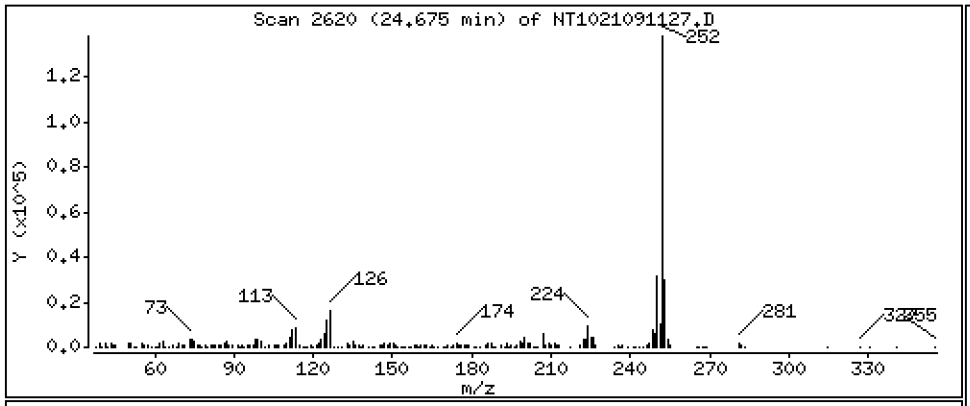
Operator: VTS

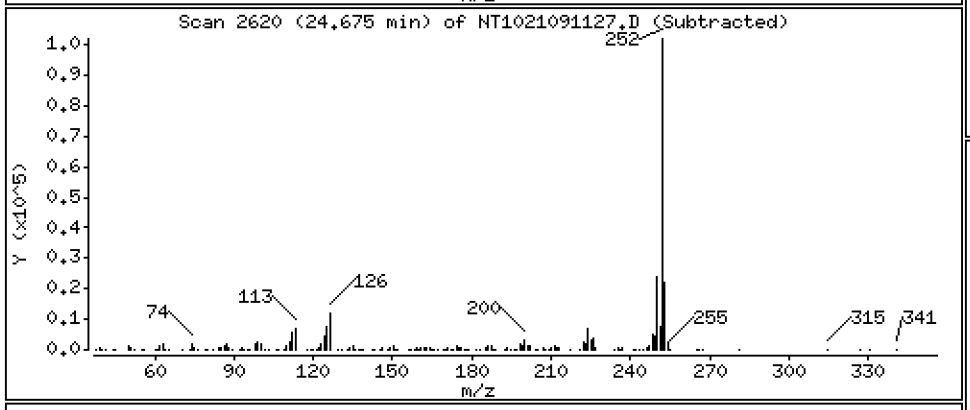
Column phase: ZB-5msi

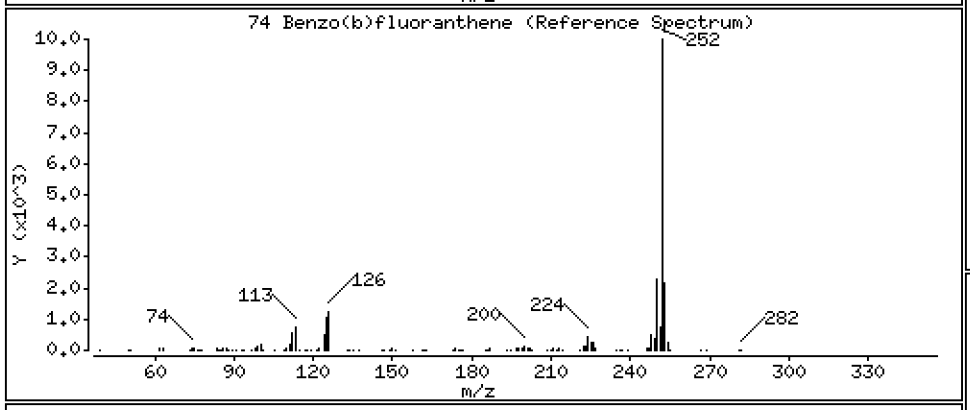
Column diameter: 0.25

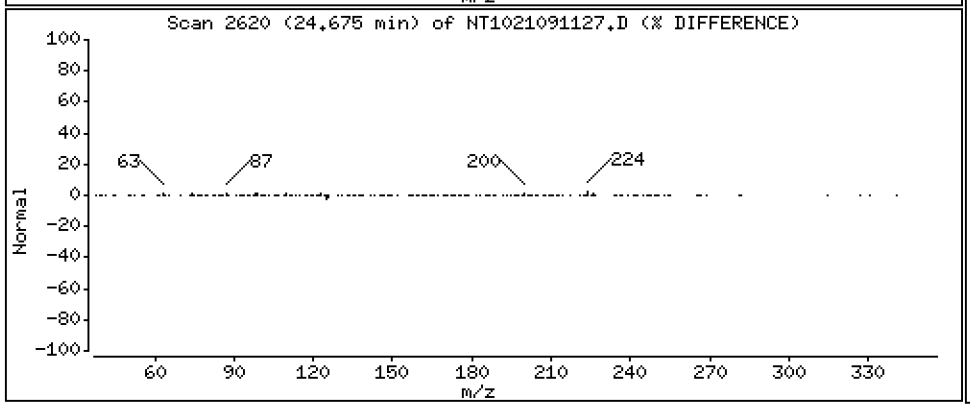
74 Benzo(b)fluoranthene

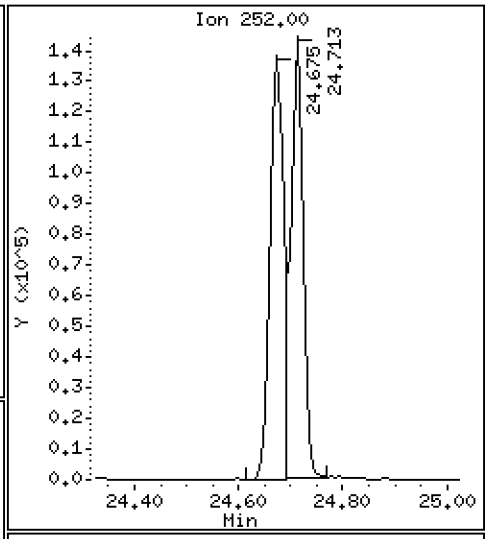
Concentration: 5.021 ug/mL

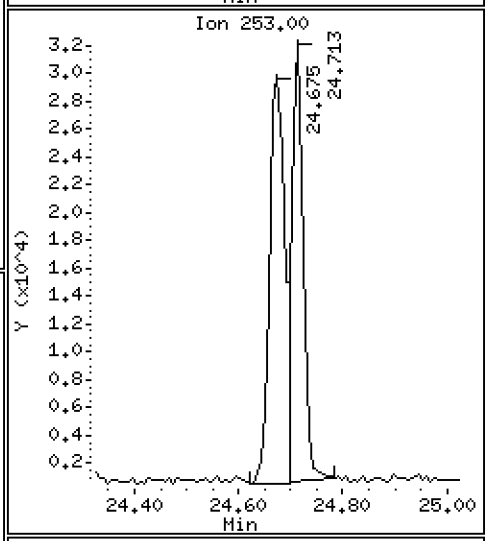


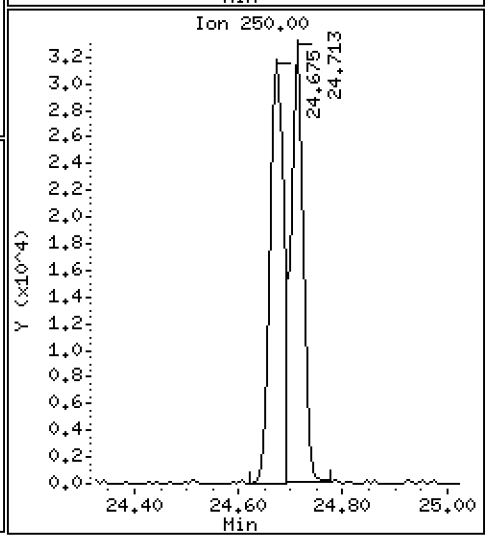












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

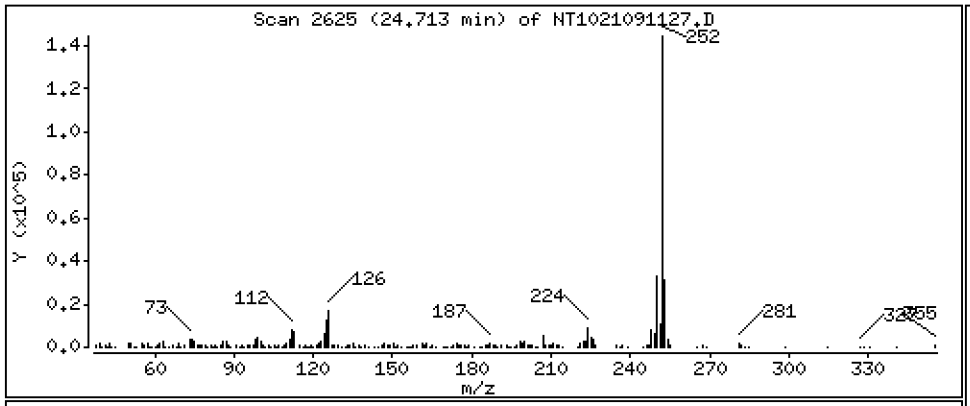
Operator: VTS

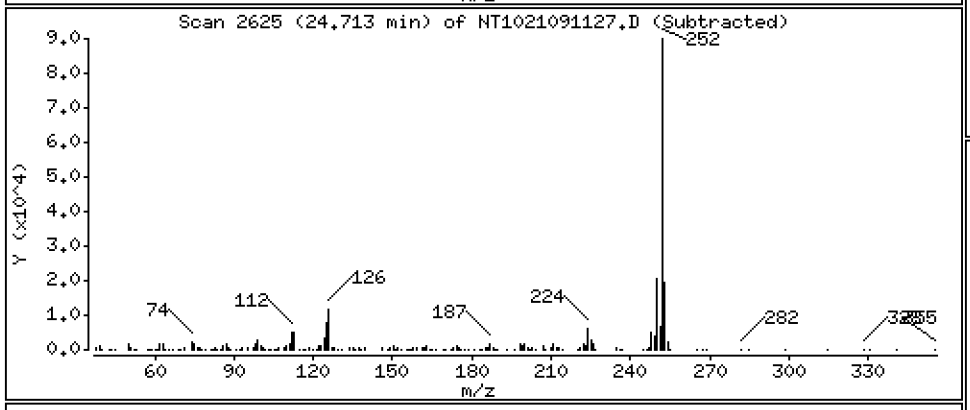
Column phase: ZB-5msi

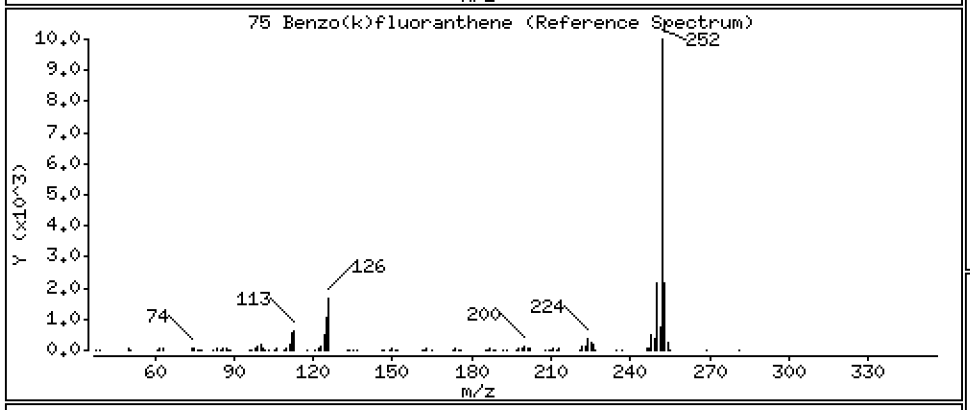
Column diameter: 0.25

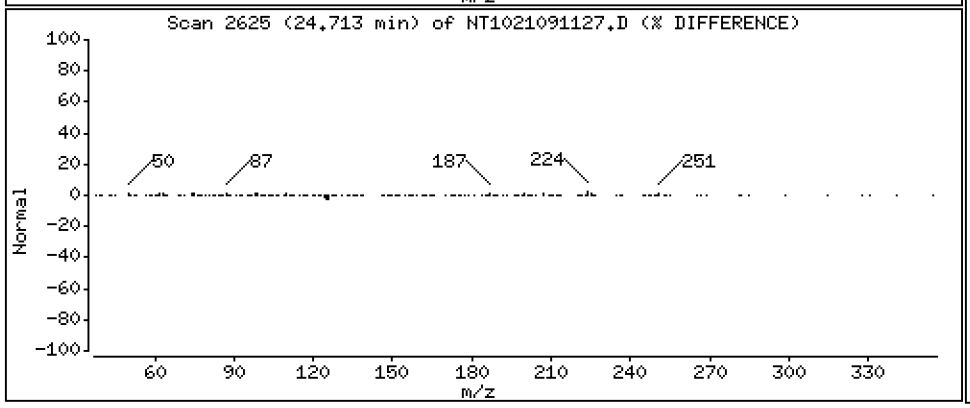
75 Benzo(k)fluoranthene

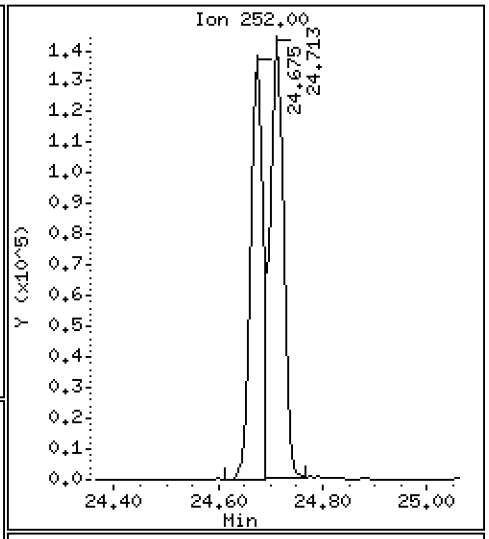
Concentration: 5.572 ug/mL

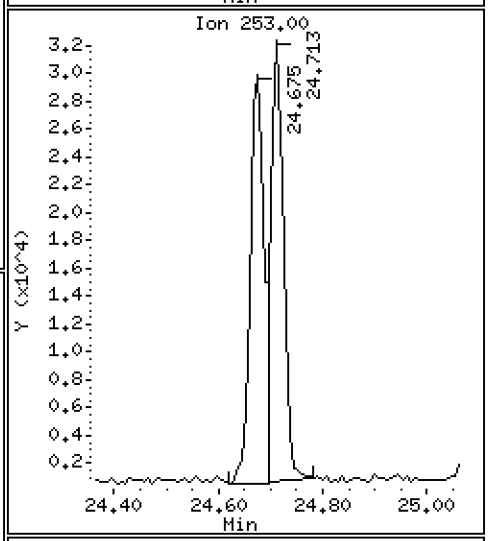


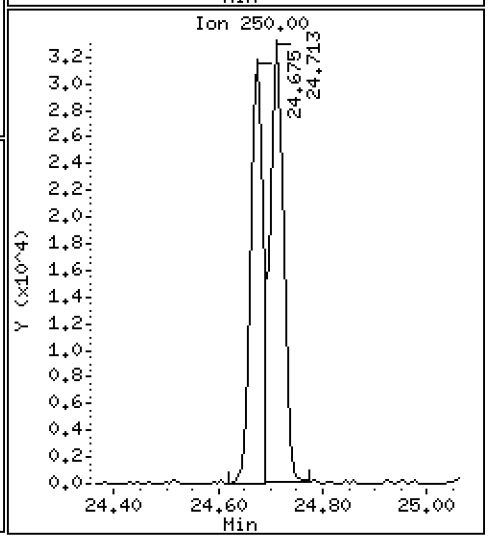












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

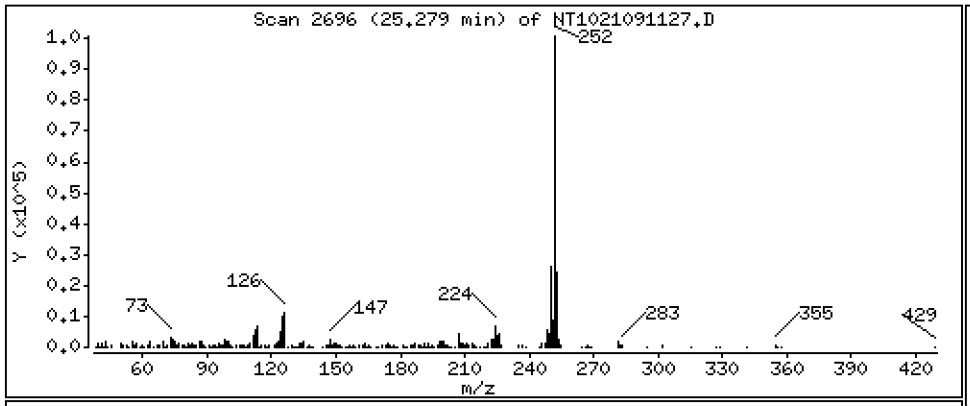
Operator: VTS

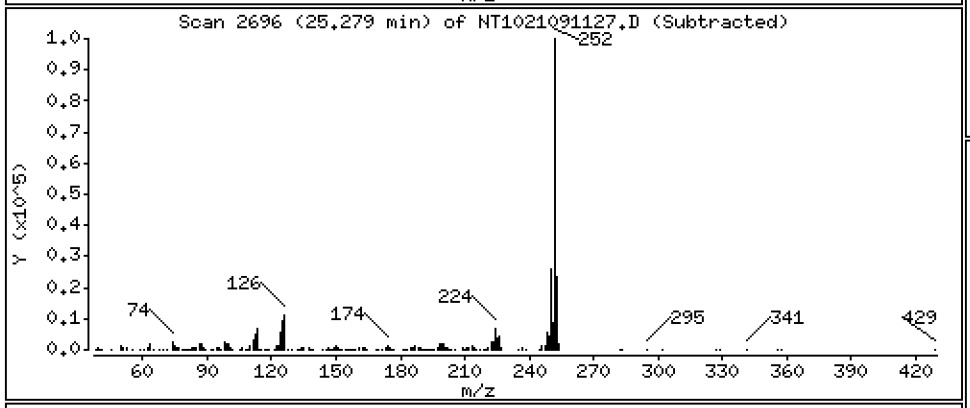
Column phase: ZB-5msi

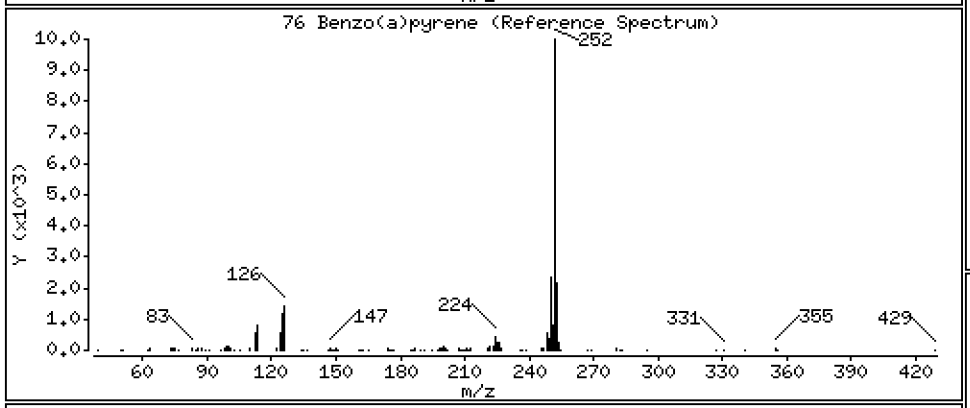
Column diameter: 0.25

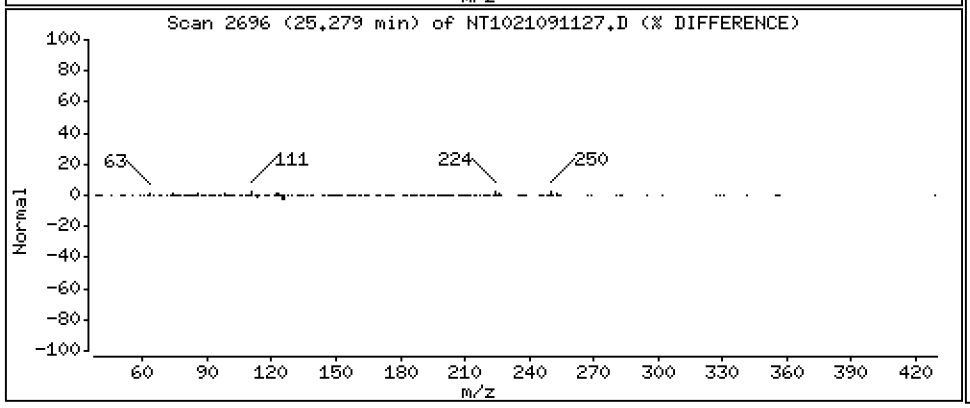
76 Benzo(a)pyrene

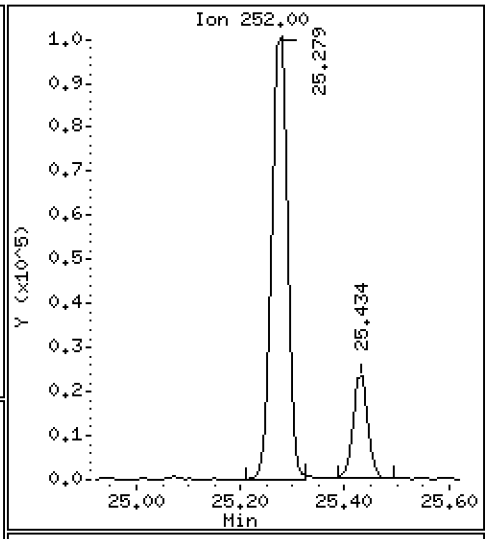
Concentration: 4.796 ug/mL

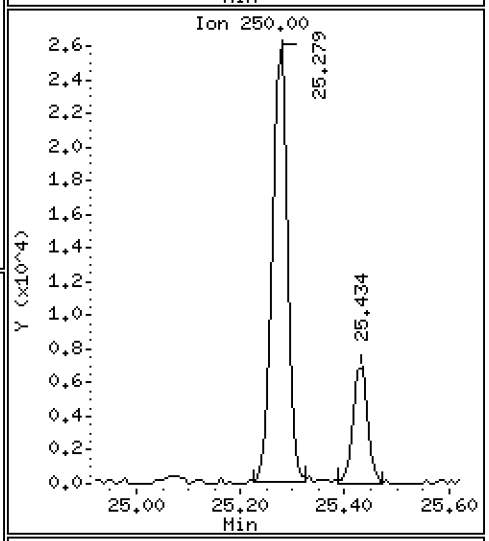


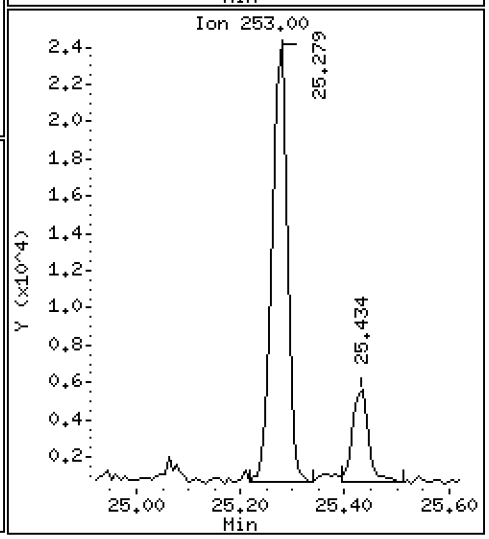












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

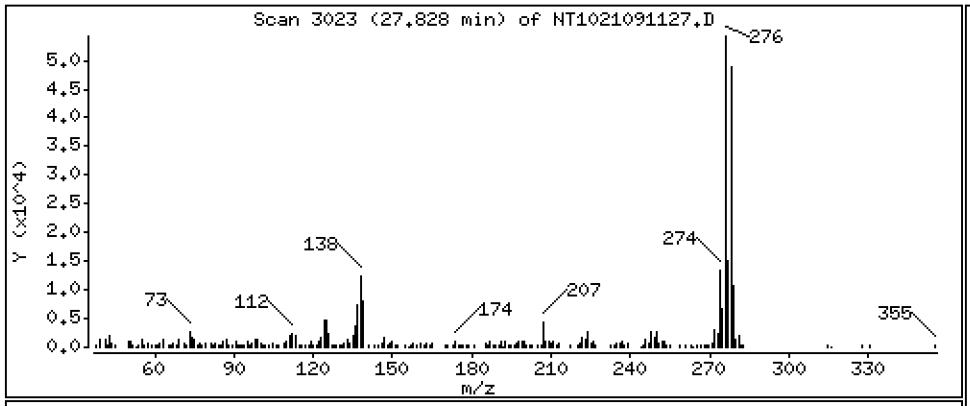
Operator: VTS

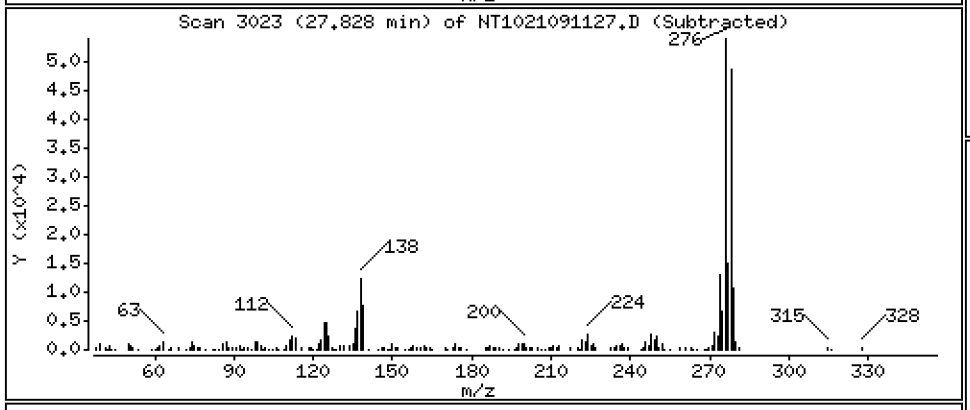
Column phase: ZB-5msi

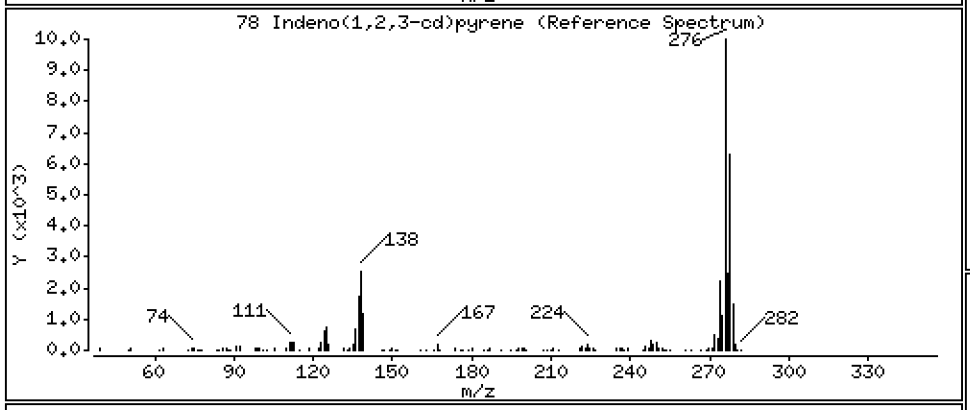
Column diameter: 0.25

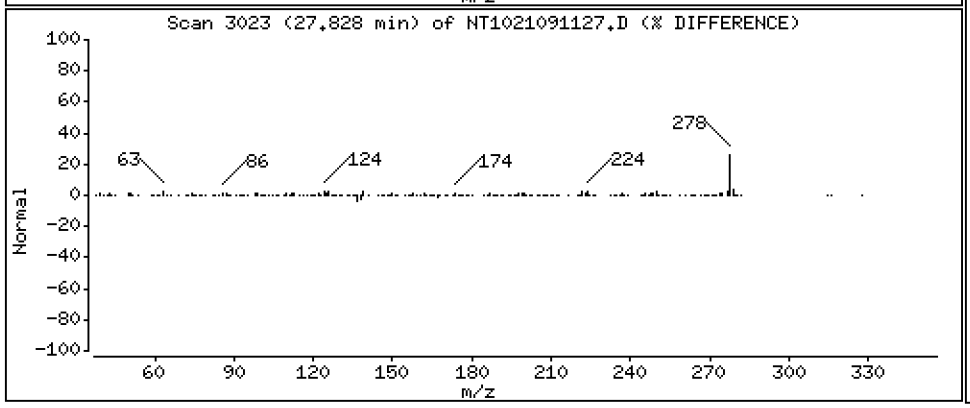
78 Indeno(1,2,3-cd)pyrene

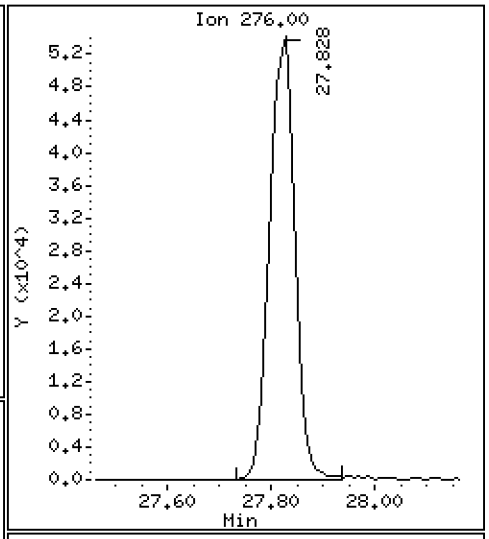
Concentration: 4.150 ug/mL

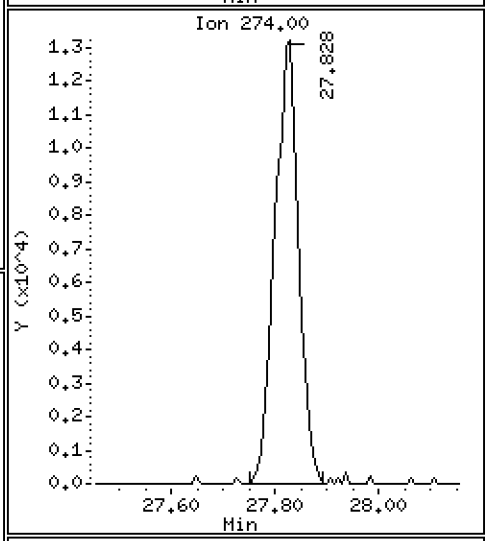


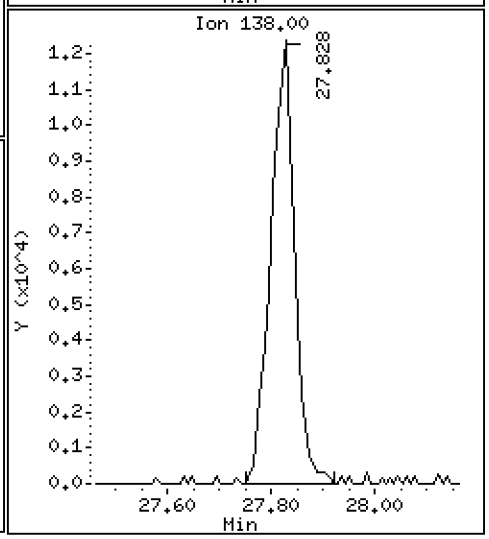












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

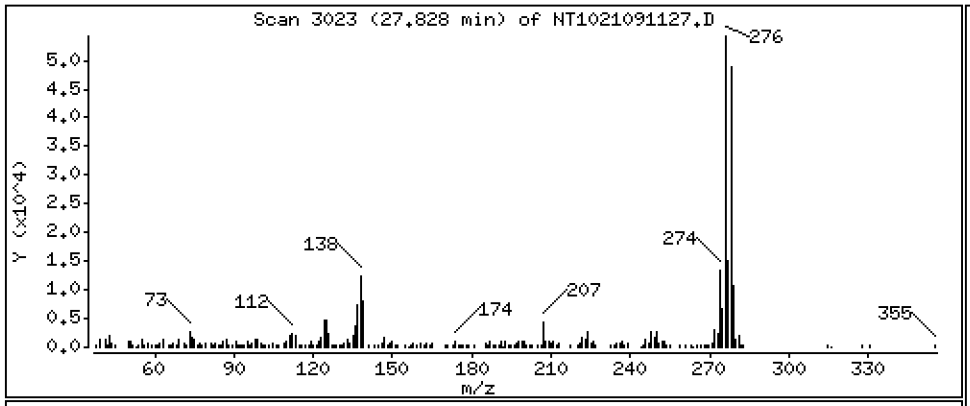
Operator: VTS

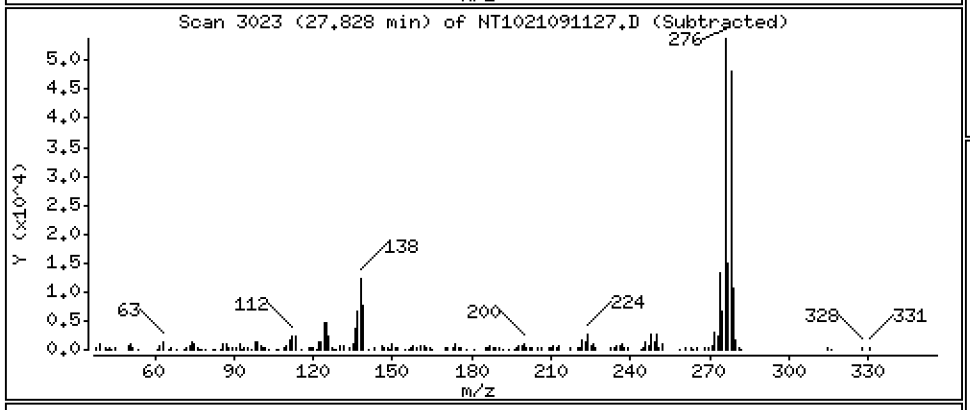
Column phase: ZB-5msi

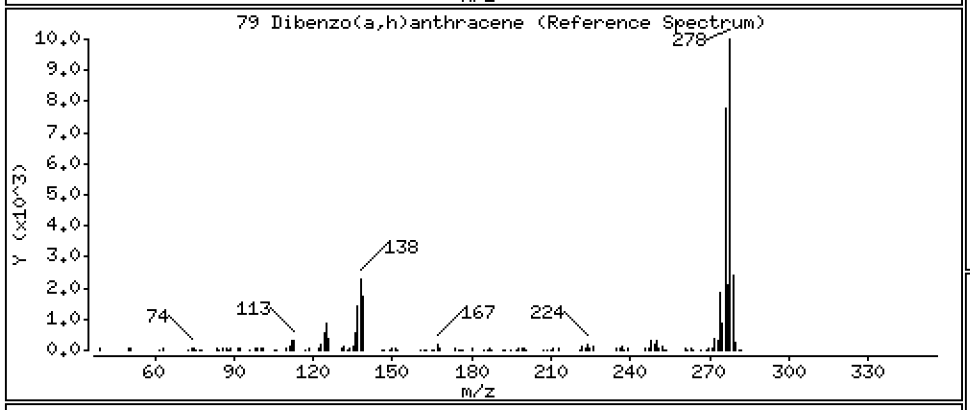
Column diameter: 0.25

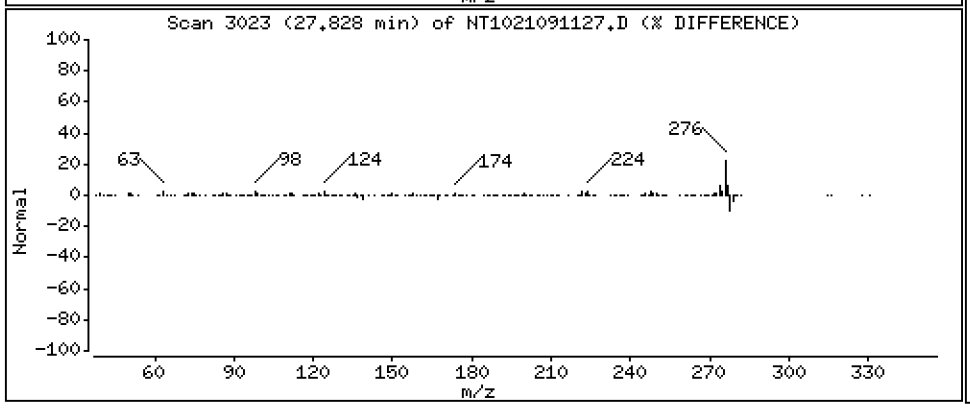
79 Dibenzo(a,h)anthracene

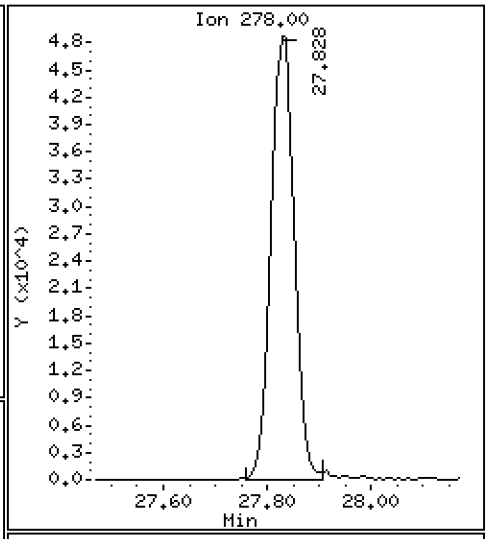
Concentration: 4.469 ug/mL

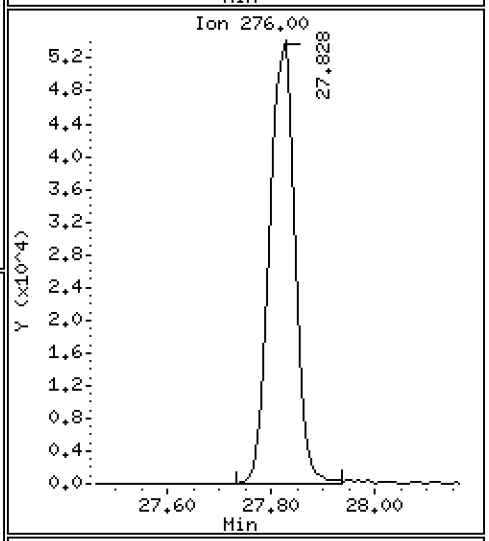


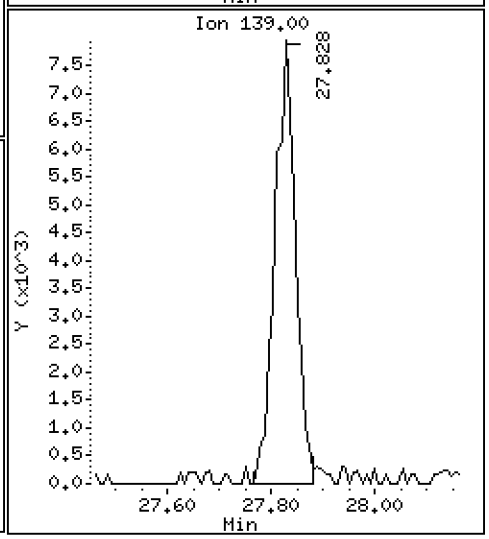












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

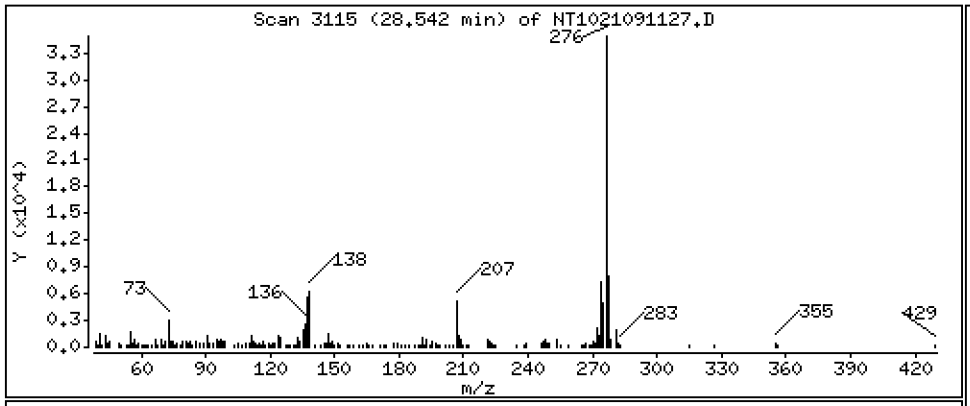
Operator: VTS

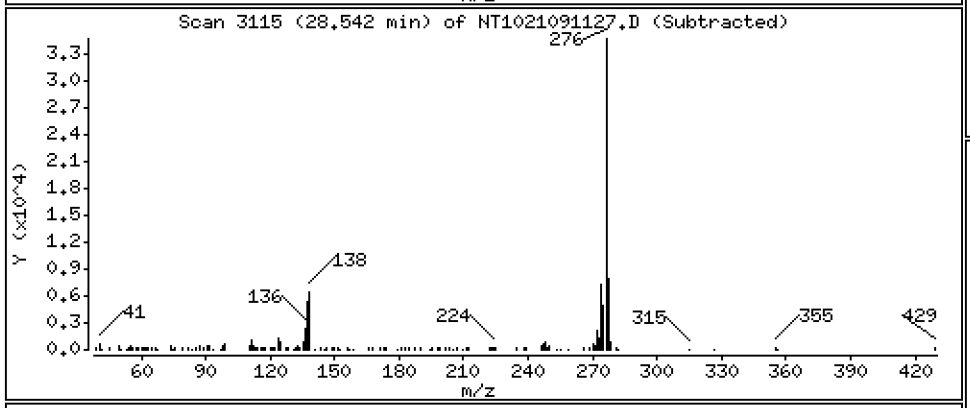
Column phase: ZB-5msi

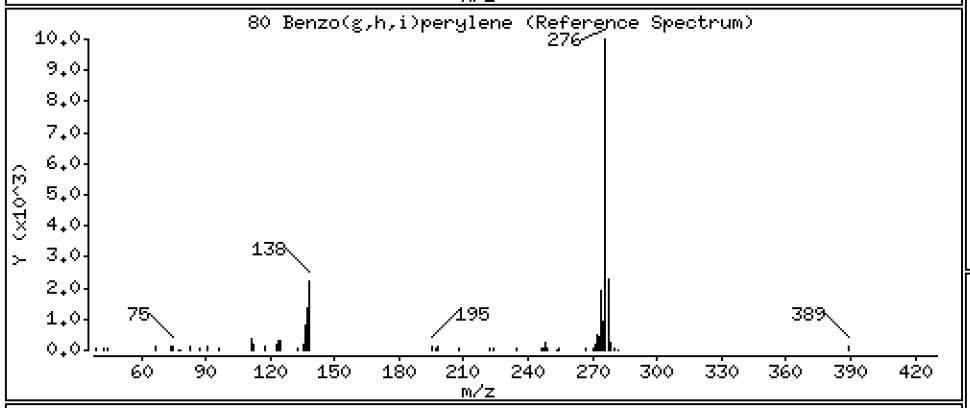
Column diameter: 0.25

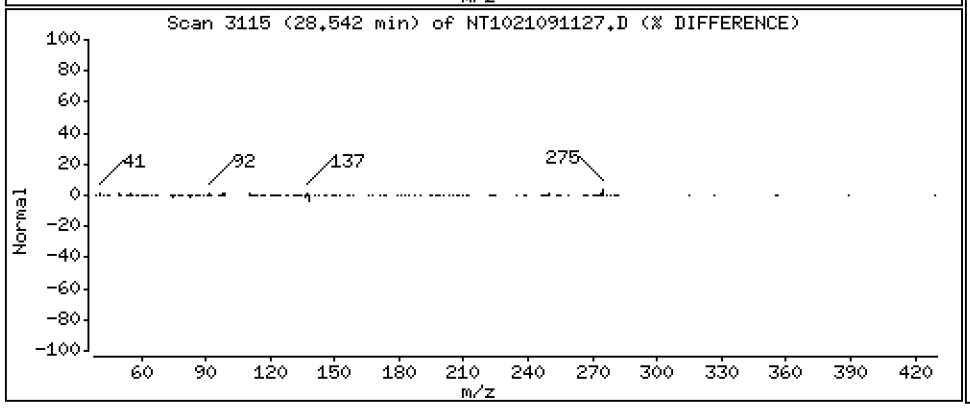
80 Benzo(g,h,i)perylene

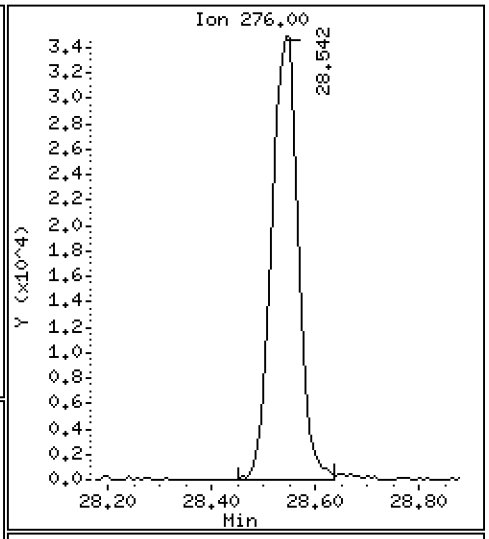
Concentration: 3.233 ug/mL

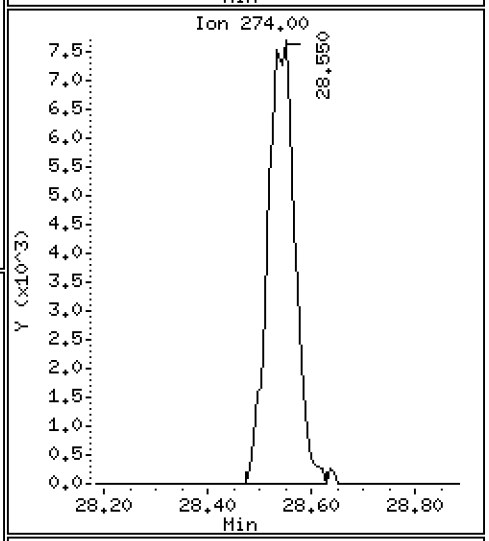


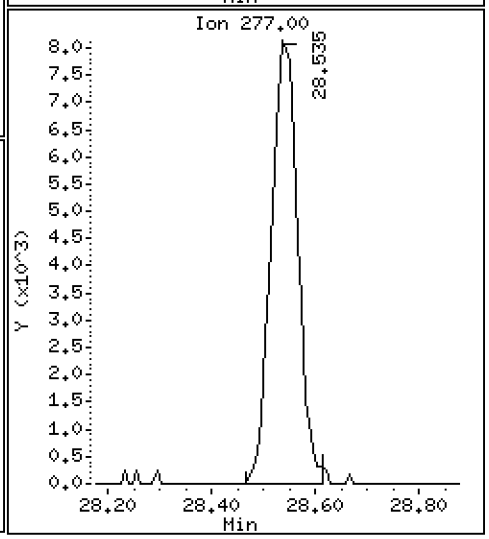












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

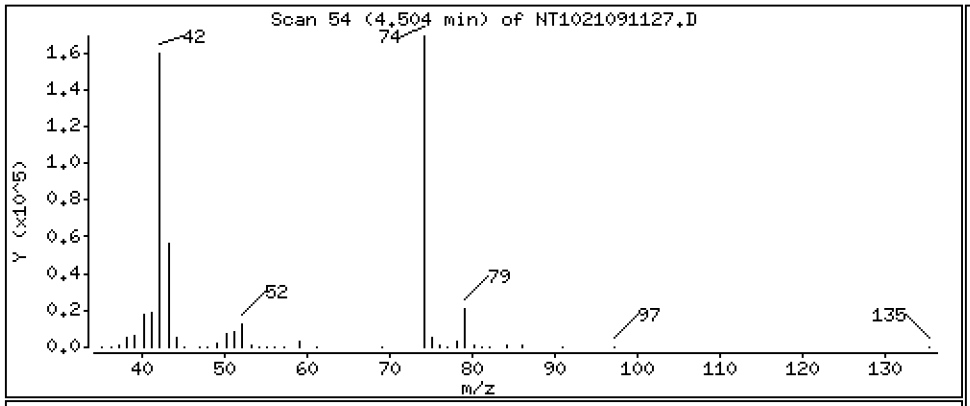
Operator: VTS

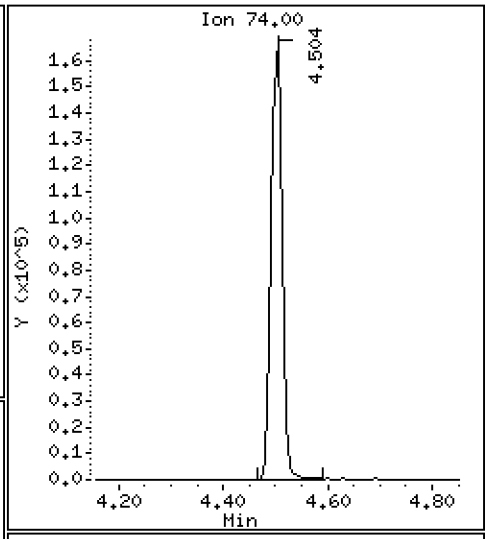
Column phase: ZB-5msi

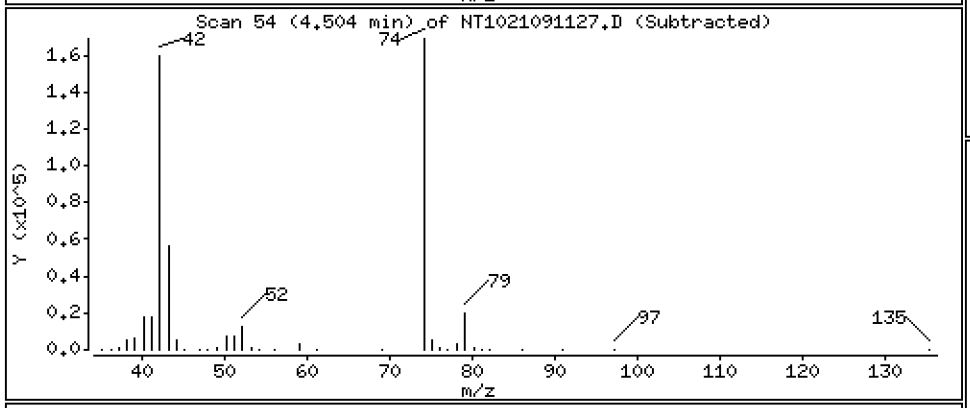
Column diameter: 0.25

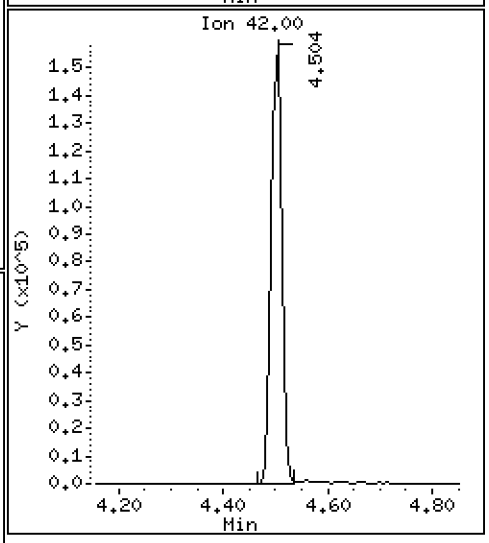
90 N-Nitrosodimethylamine

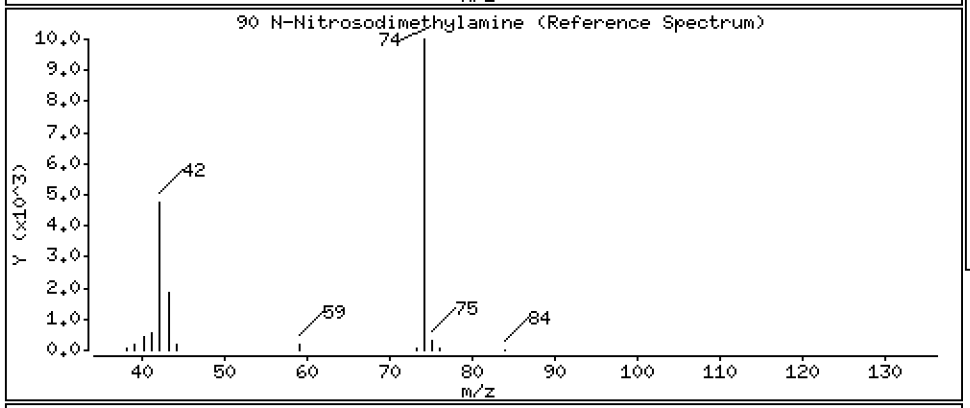
Concentration: 8.186 ug/mL

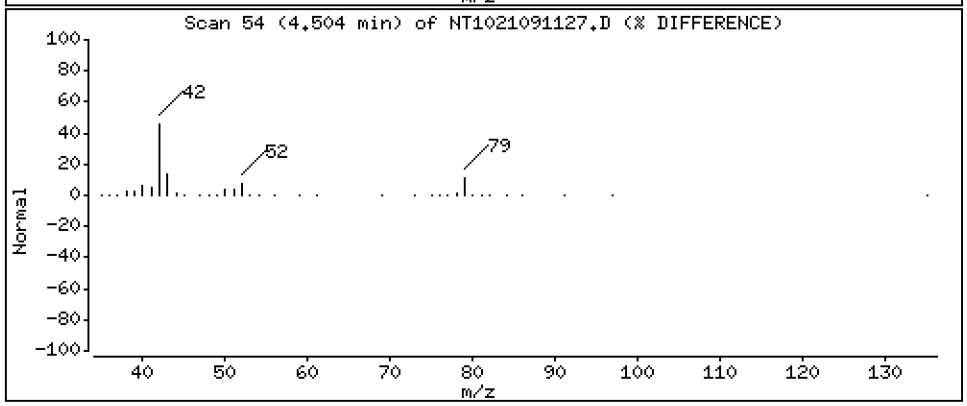












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

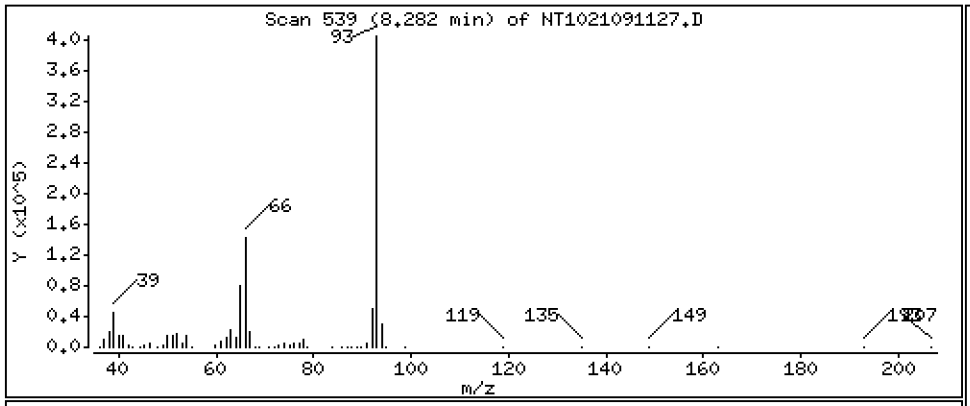
Operator: VTS

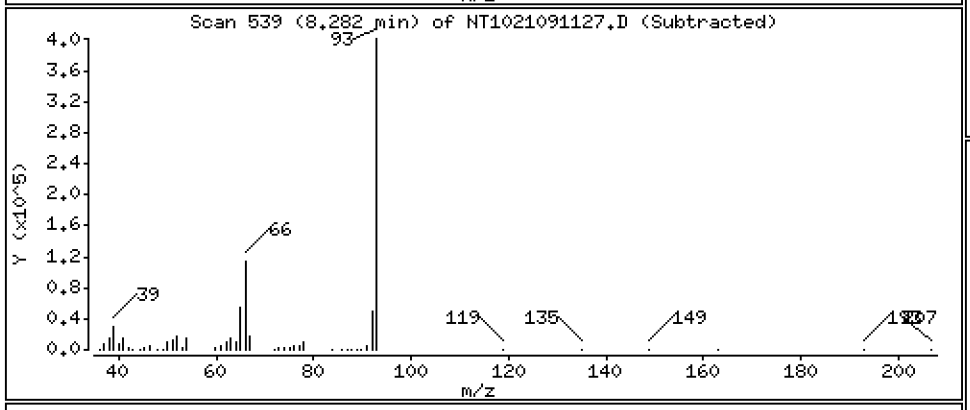
Column phase: ZB-5msi

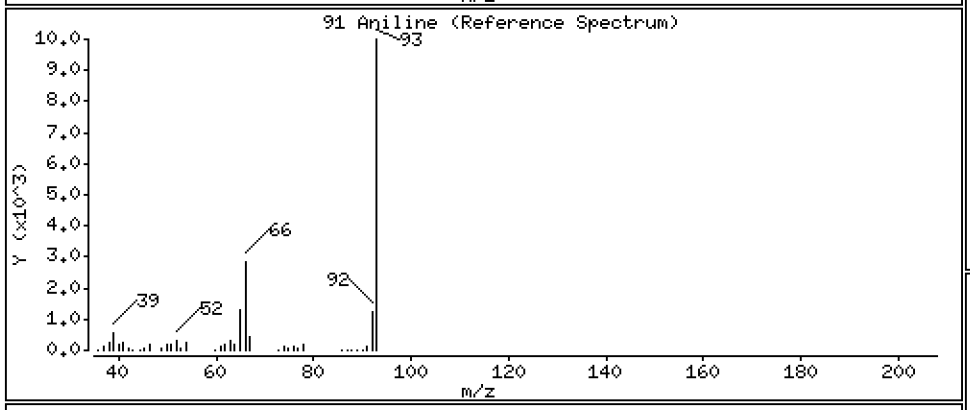
Column diameter: 0.25

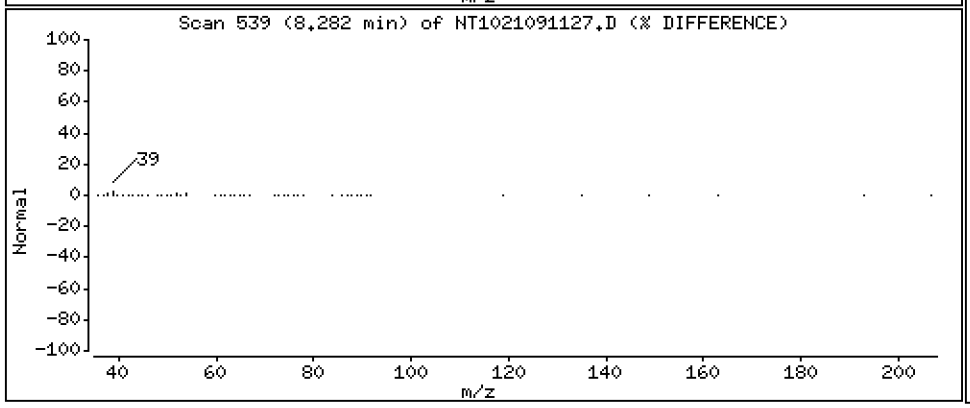
91 Aniline

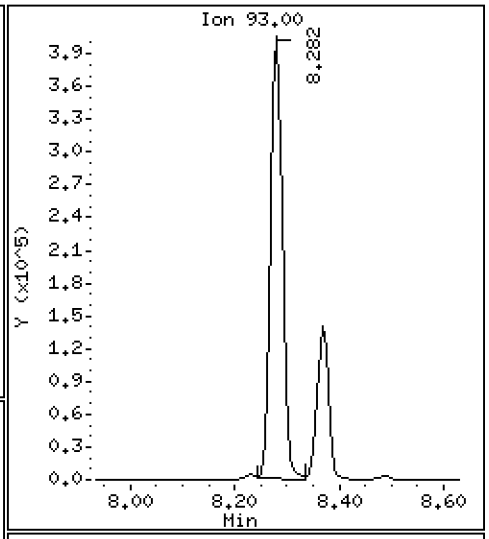
Concentration: 9.385 ug/mL

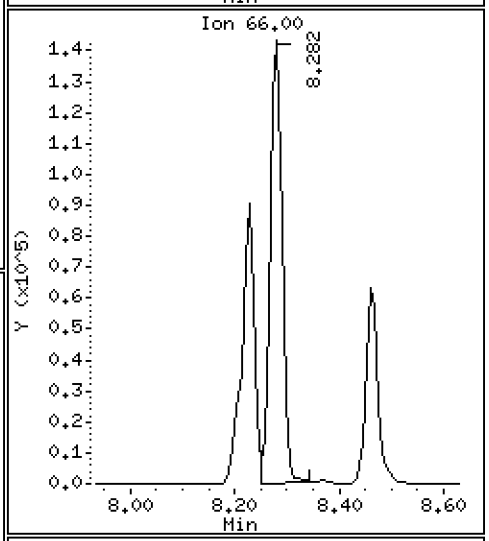


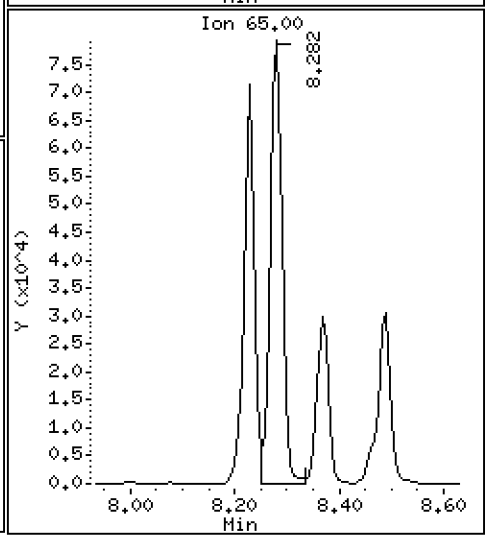












Data File: \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D

Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

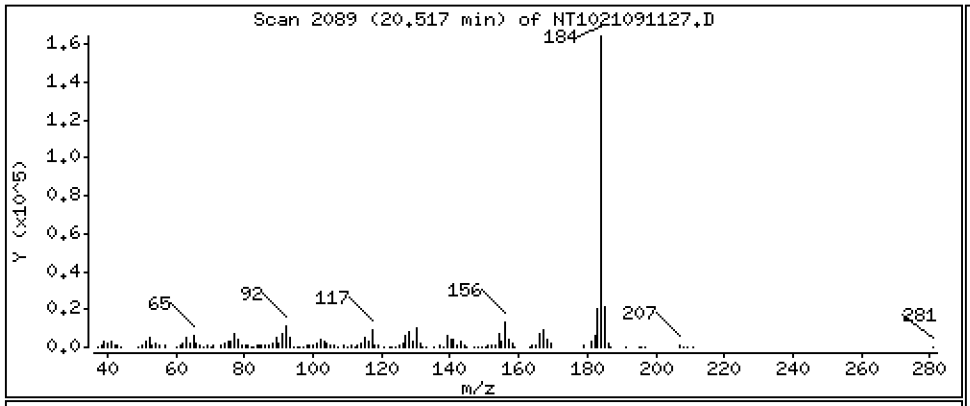
Operator: VTS

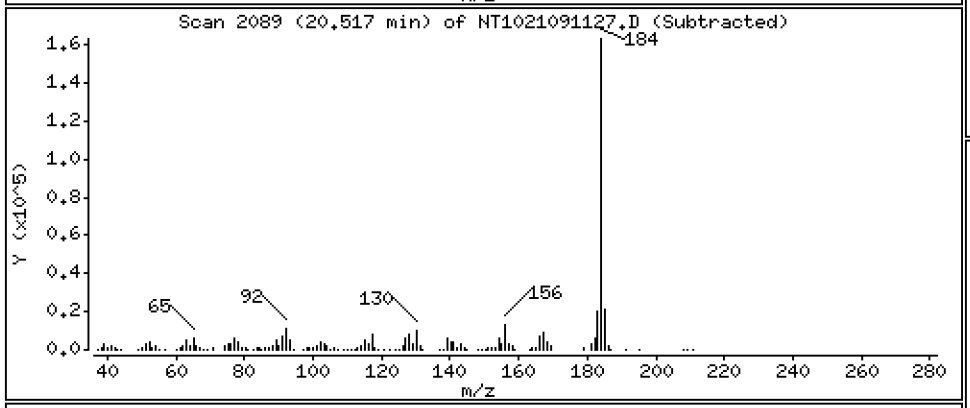
Column phase: ZB-5msi

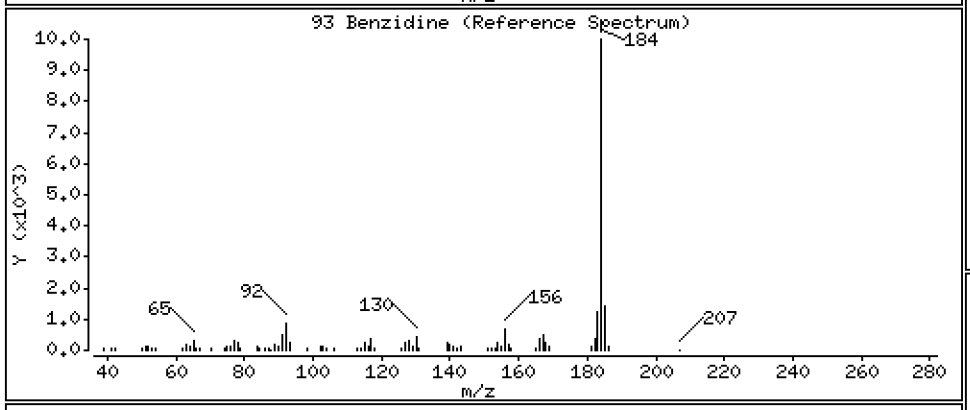
Column diameter: 0.25

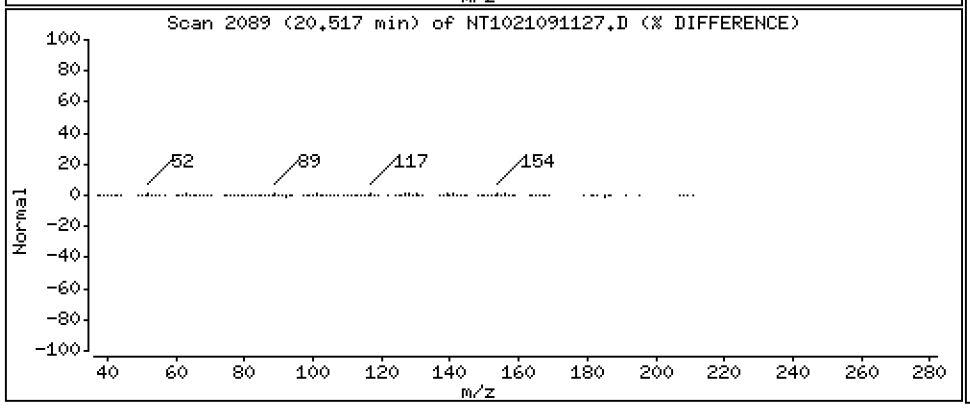
93 Benzidine

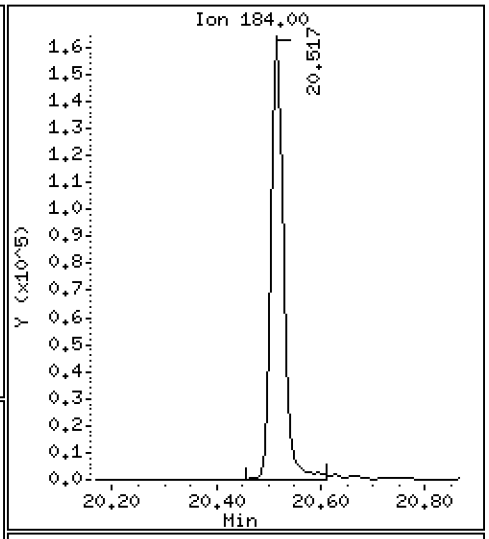
Concentration: 7.286 ug/mL

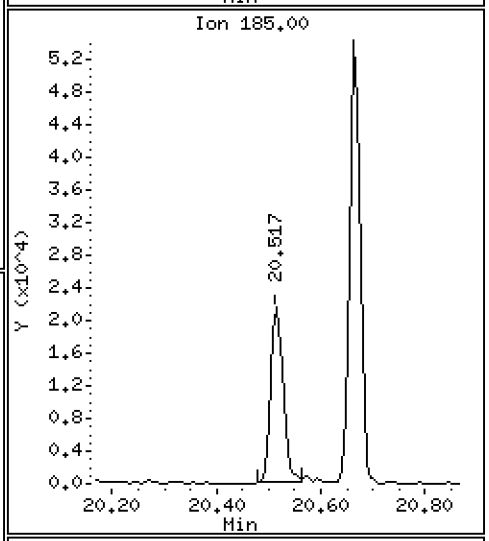


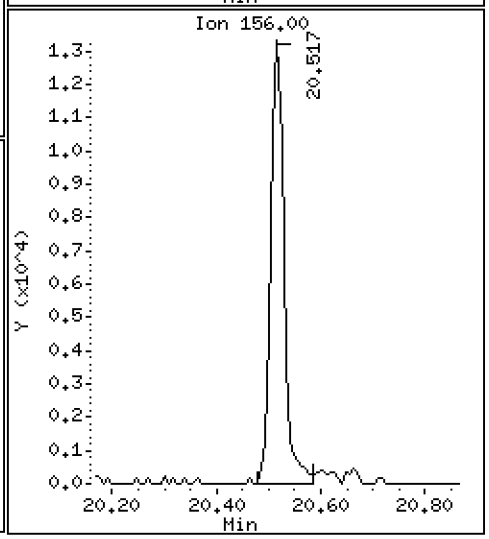












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

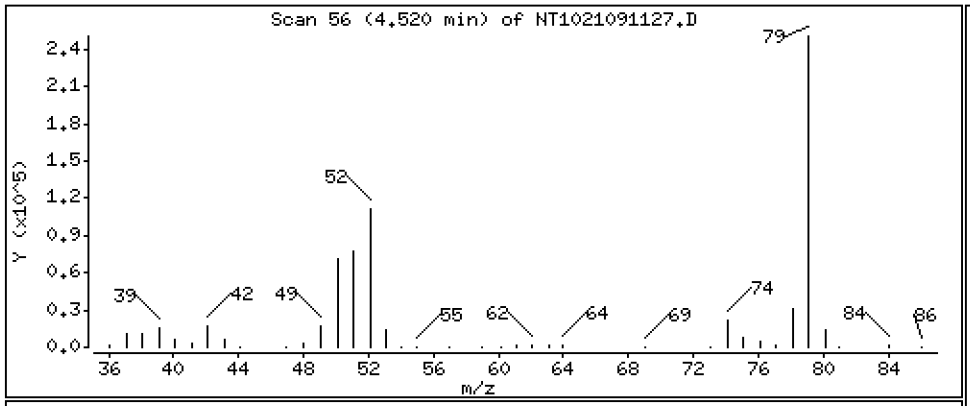
Operator: VTS

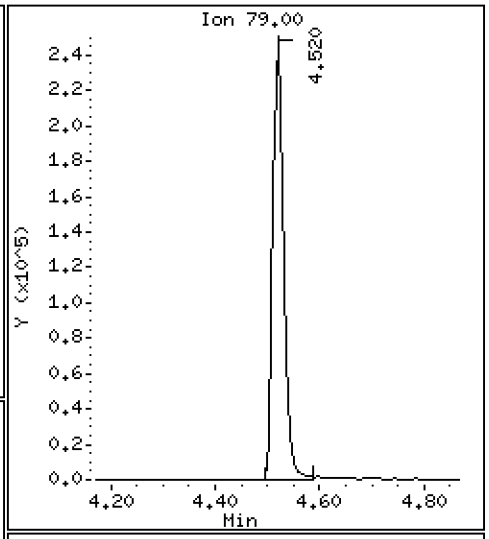
Column phase: ZB-5msi

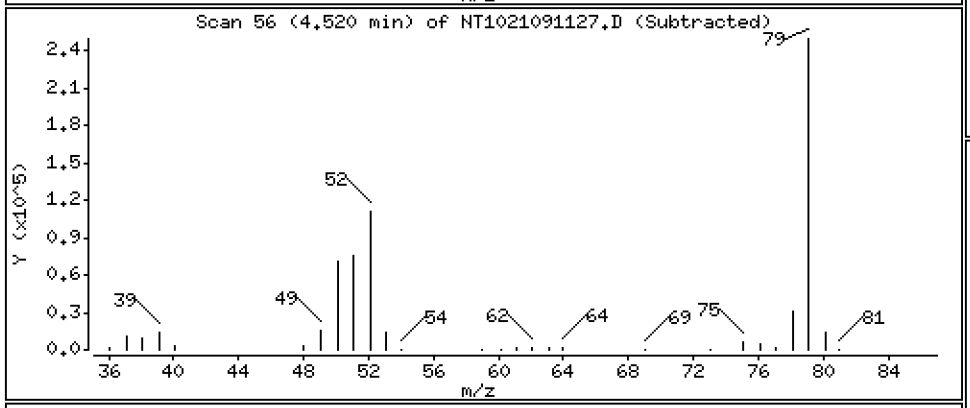
Column diameter: 0.25

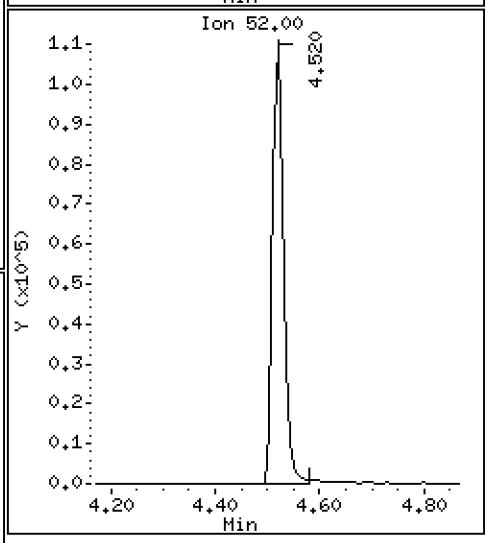
103 Pyridine

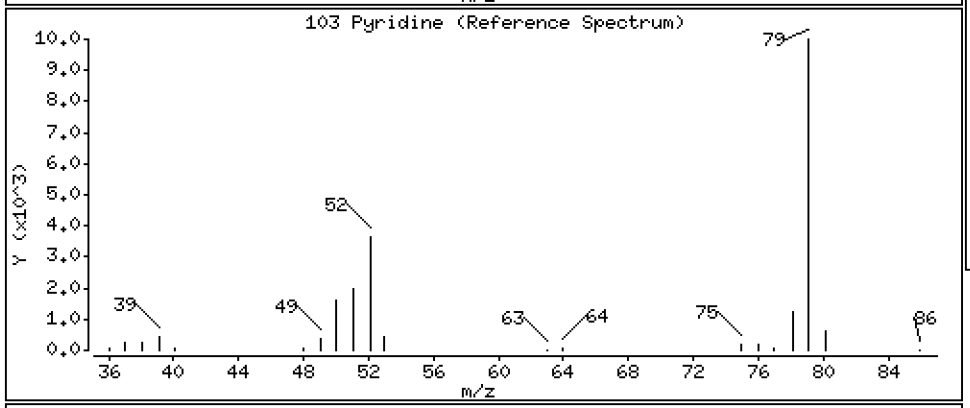
Concentration: 3.788 ug/mL

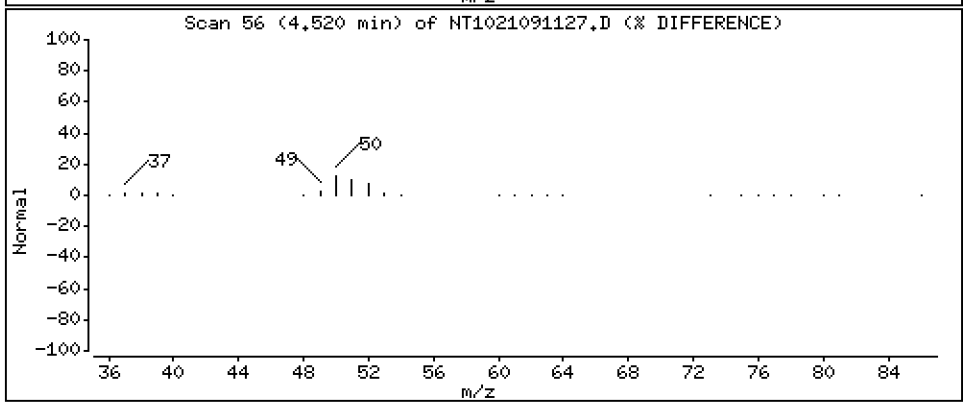












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

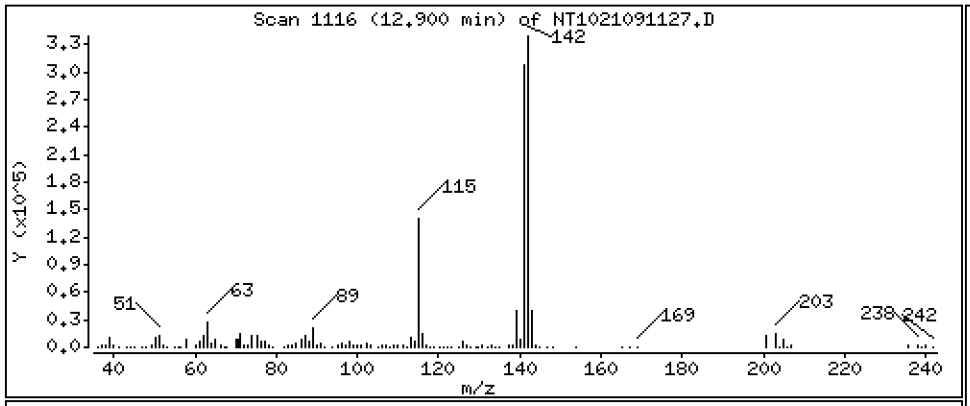
Operator: VTS

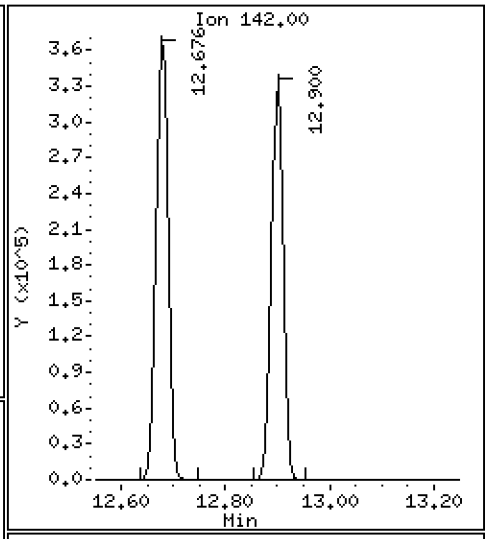
Column phase: ZB-5msi

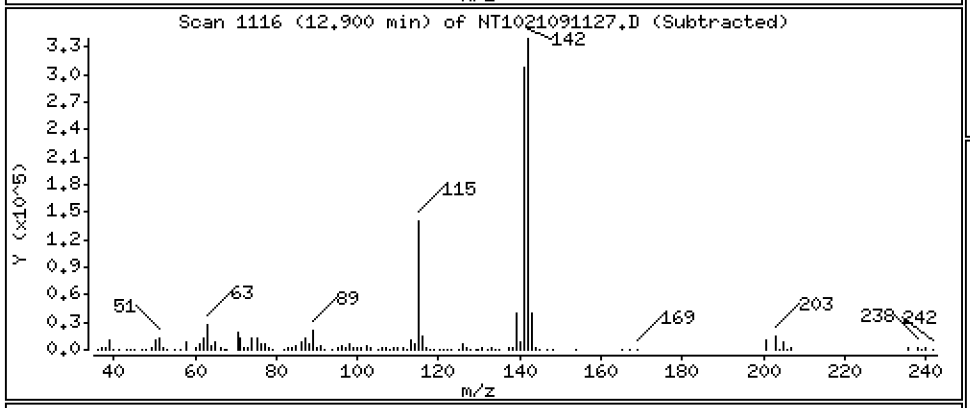
Column diameter: 0.25

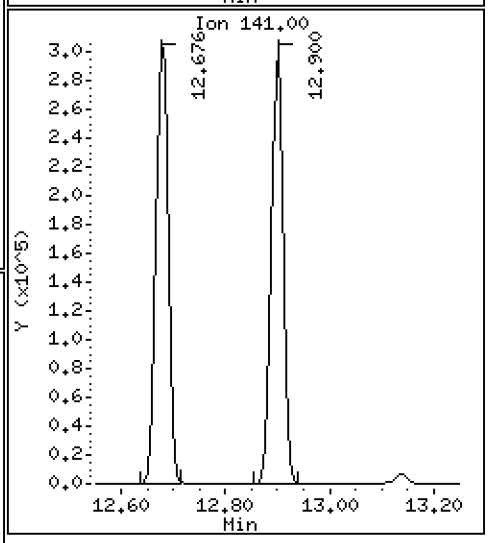
105 1-methylnaphthalene

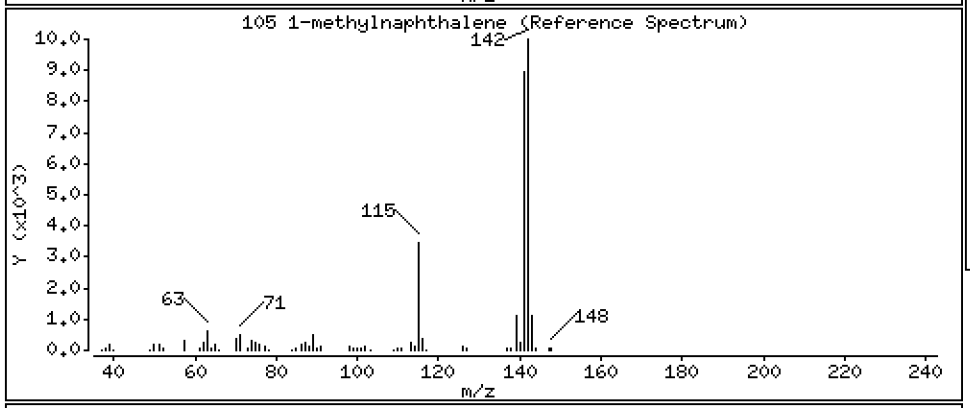
Concentration: 5.275 ug/mL

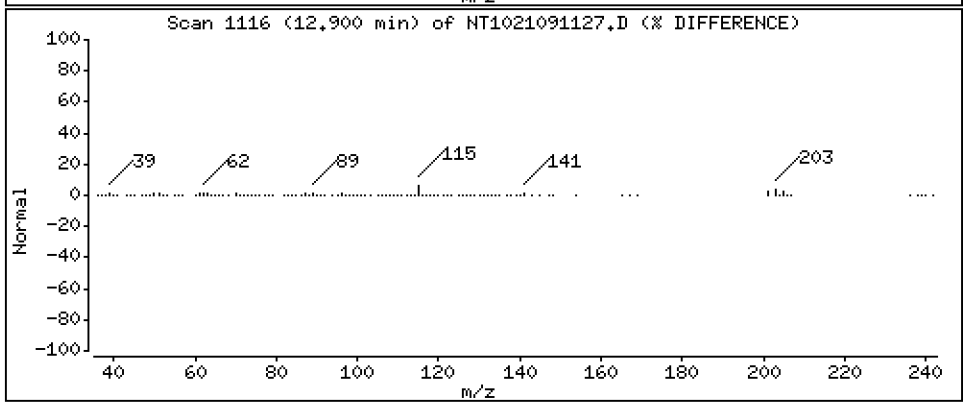












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

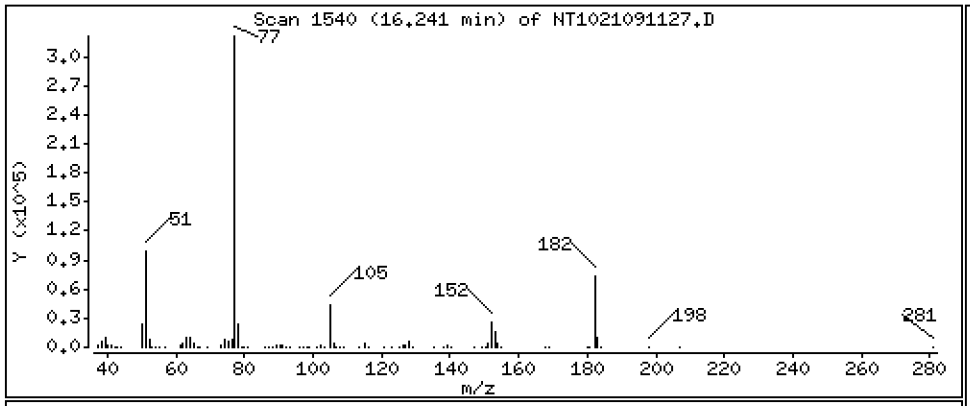
Operator: VTS

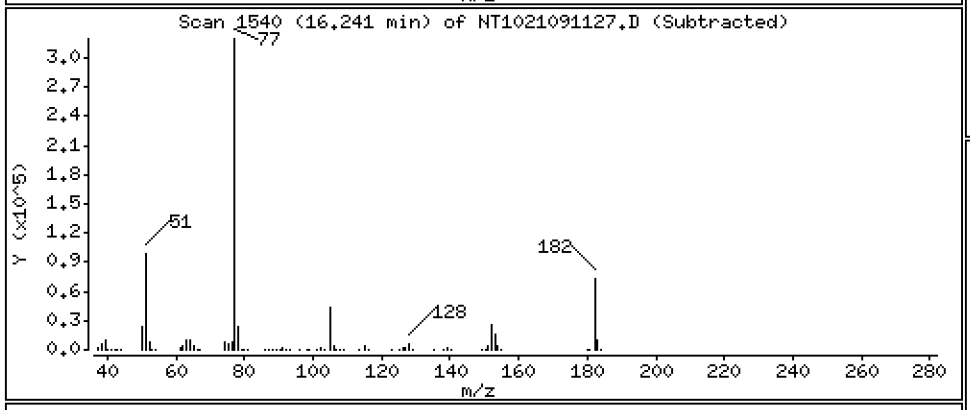
Column phase: ZB-5msi

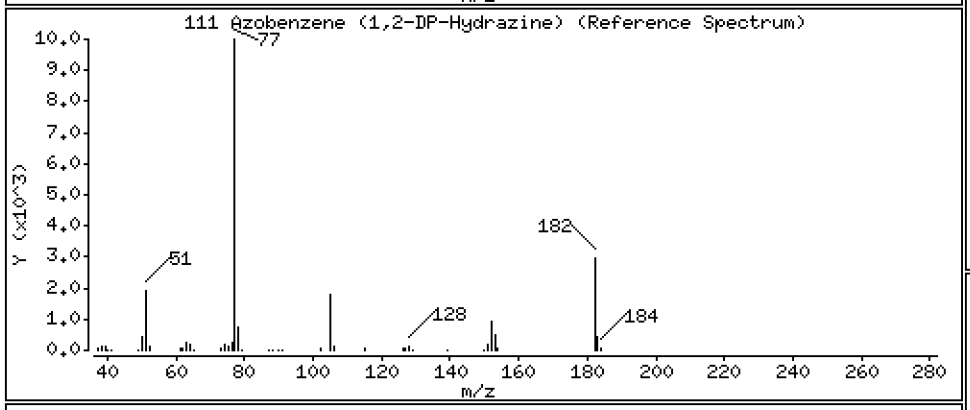
Column diameter: 0.25

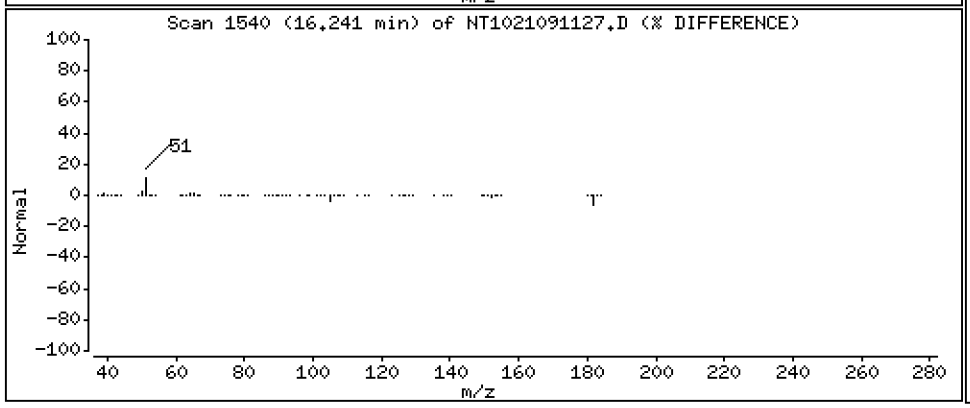
111 Azobenzene (1,2-DP-Hydrazine)

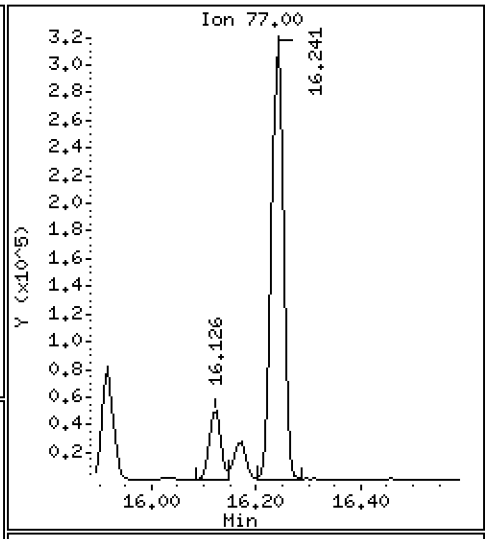
Concentration: 5.969 ug/mL

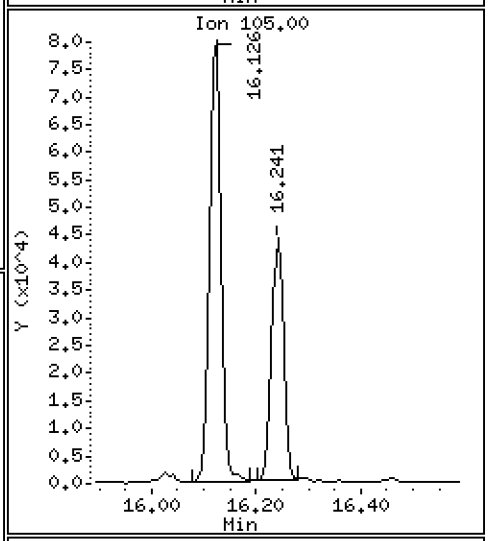


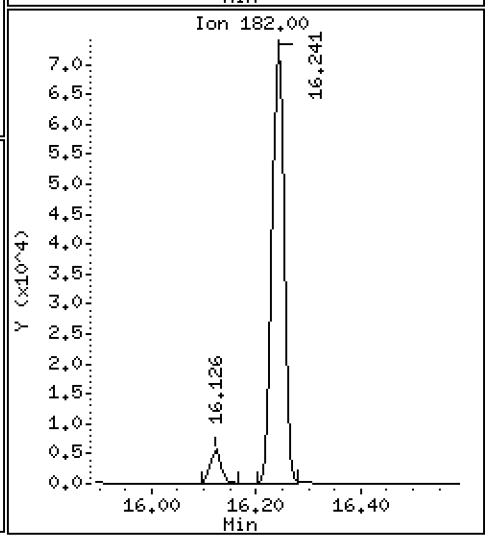












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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

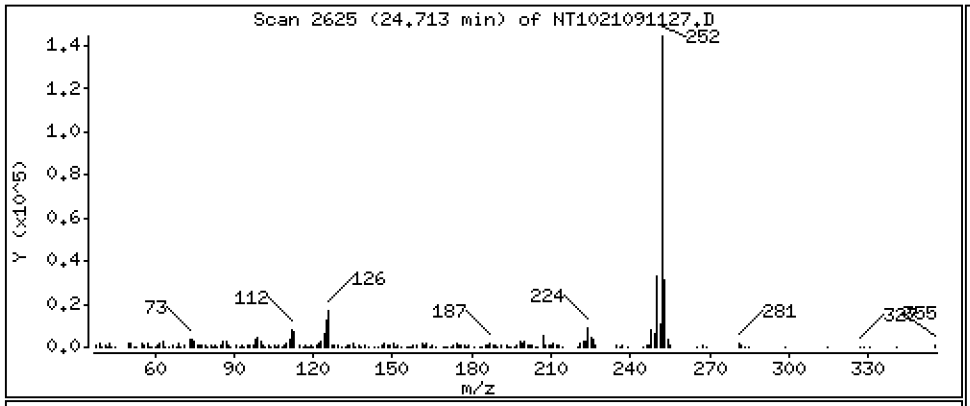
Operator: VTS

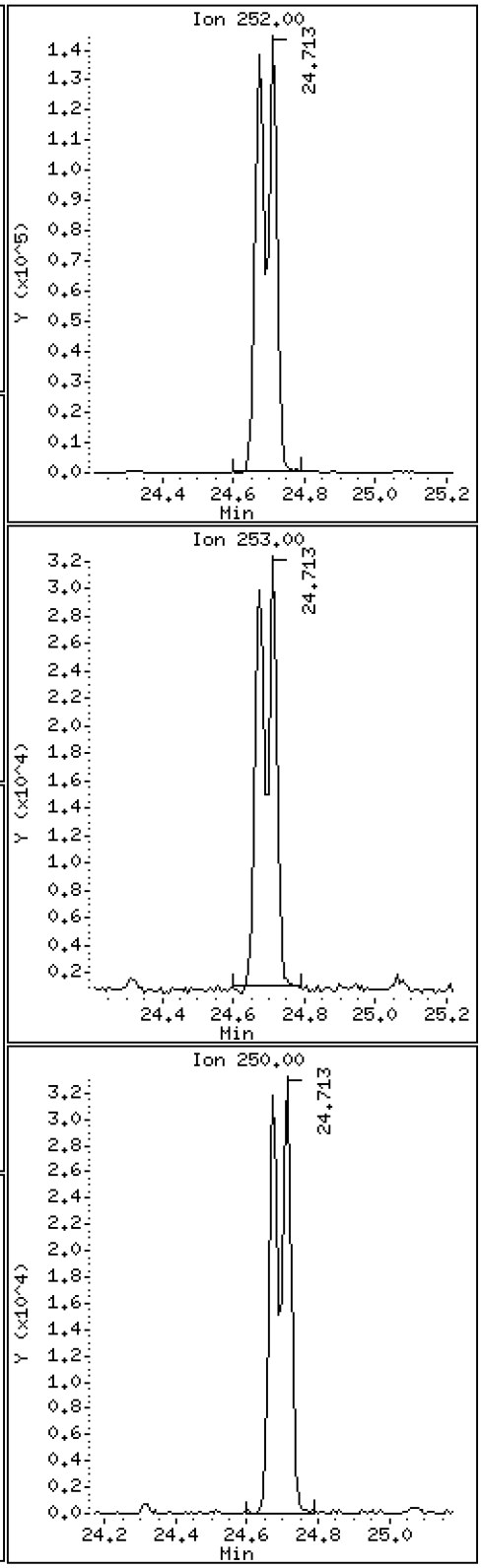
Column phase: ZB-5msi

Column diameter: 0.25

187 Total Benzofluoranthenes

Concentration: 10.33 ug/mL





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Date : 12-SEP-2021 02:56

Client ID:

Instrument: nt10.i

Sample Info: SJI0174-CCV1

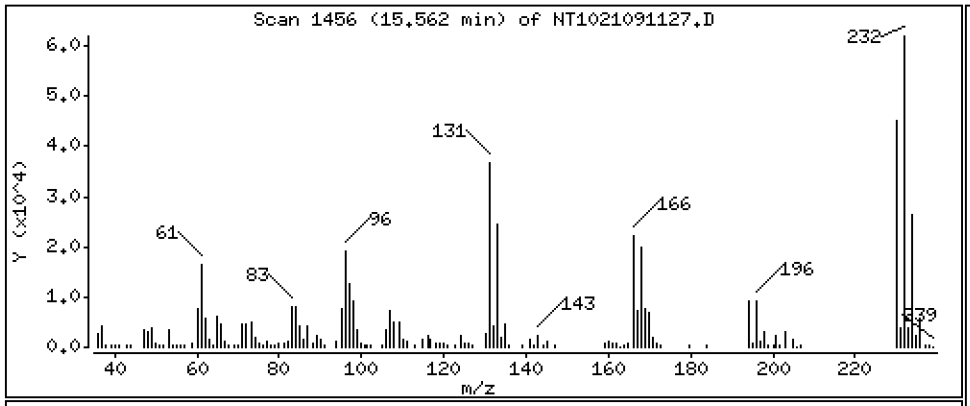
Operator: VTS

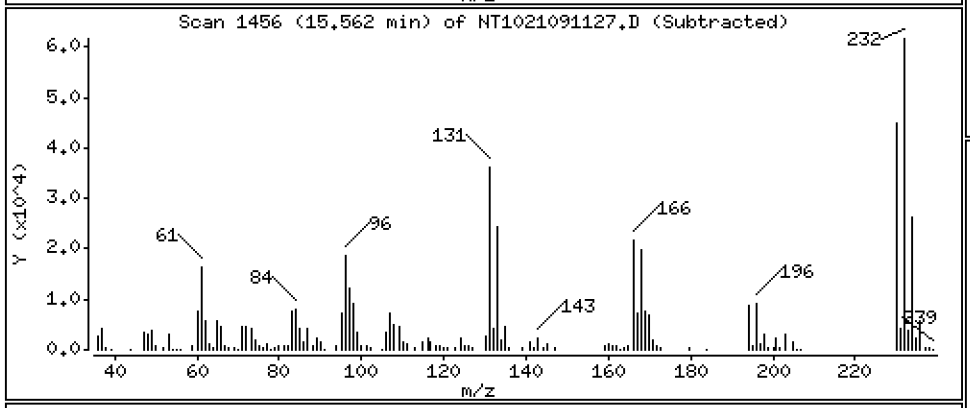
Column phase: ZB-5msi

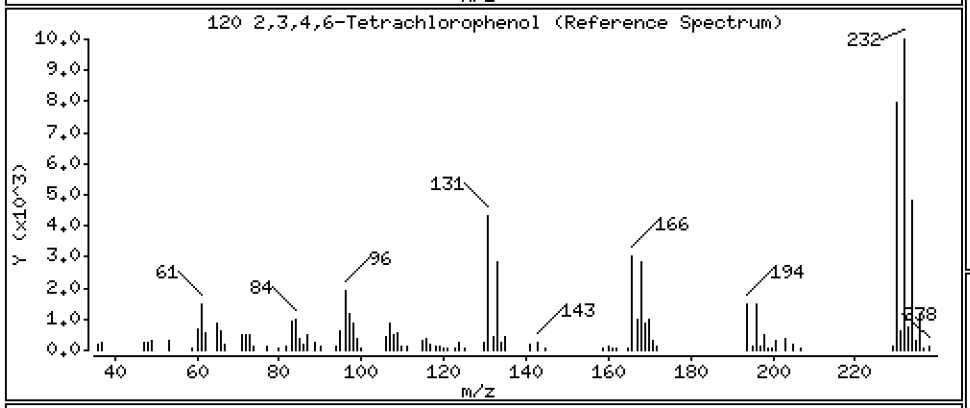
Column diameter: 0.25

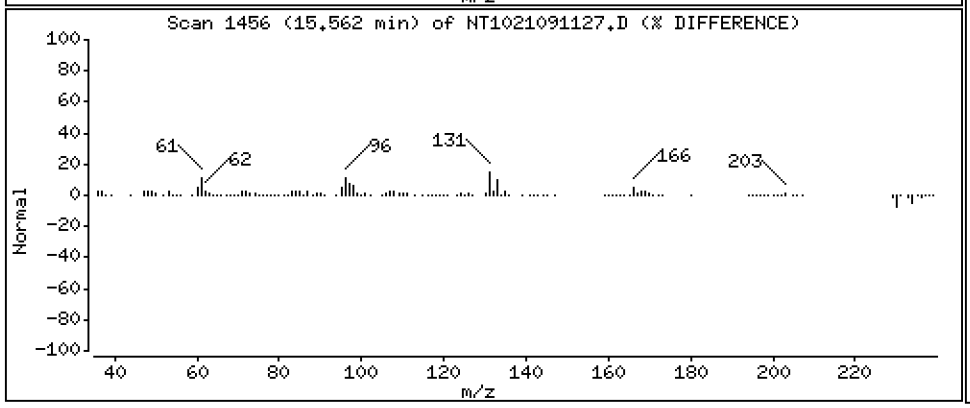
120 2,3,4,6-Tetrachlorophenol

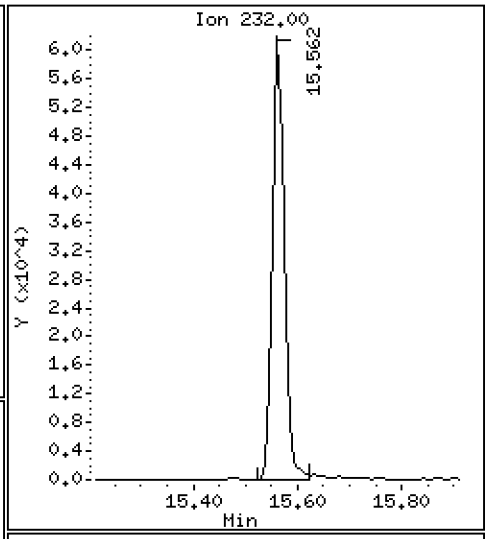
Concentration: 5.337 ug/mL

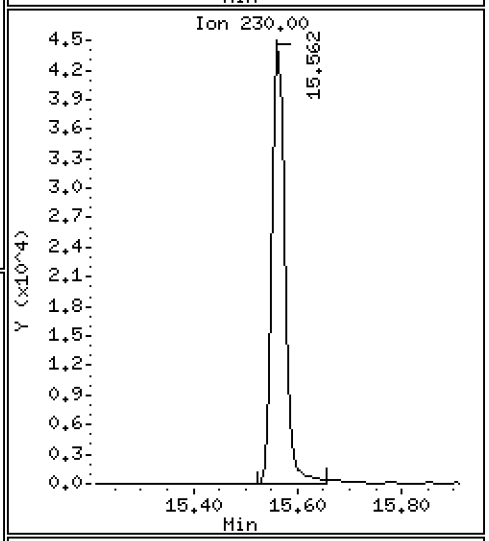


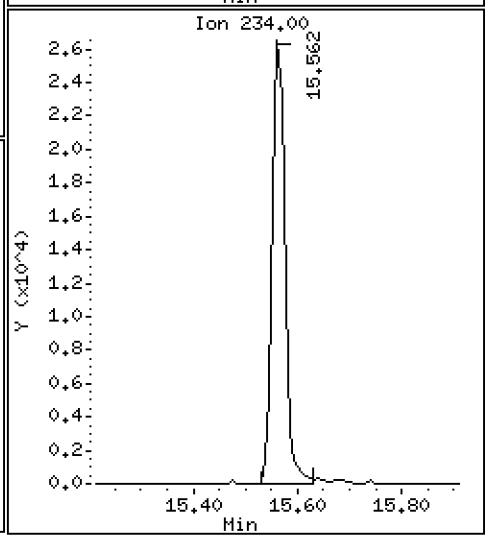












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20210911.b\NT1021091127.D
Lab Smp Id: SJI0174-CCV1
Inj Date : 12-SEP-2021 02:56
Operator : VTS Inst ID: nt10.i
Smp Info : SJI0174-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20210911.b\ABN.m
Meth Date : 12-Sep-2021 15:16 yev Quant Type: ISTD
Cal Date : 19-AUG-2021 18:48 Cal File: NT1021081912.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: ORGDATA102

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.635	6.635	(0.753)	328990	7.62255	7.623
$ 2	Phenol-d5	99	8.204	8.204	(0.931)	529771	8.57614	8.576
3	Phenol	94	8.227	8.227	(0.933)	311625	5.51179	5.512
$ 5	2-Chlorophenol-d4	132	8.459	8.459	(0.960)	335325	7.62042	7.620
4	Bis(2-Chloroethyl)ether	93	8.366	8.366	(0.949)	202467	4.89461	4.895
6	2-Chlorophenol	128	8.490	8.490	(0.963)	240391	5.12407	5.124
7	1,3-Dichlorobenzene	146	8.745	8.745	(0.992)	249473	5.11423	5.114
* 8	1,4-Dichlorobenzene-d4	152	8.815	8.815	(1.000)	129096	4.00000	
9	1,4-Dichlorobenzene	146	8.839	8.846	(1.003)	192807	5.22086	5.221
$ 10	1,2-Dichlorobenzene-d4	152	9.164	9.164	(1.040)	148256	4.95995	4.960
12	1,2-Dichlorobenzene	146	9.196	9.188	(1.043)	214737	5.10938	5.109
11	Benzyl alcohol	108	9.087	9.087	(1.031)	140022	5.38404	5.384
14	2,2'-oxybis(1-Chloropropane)	121	9.374	9.374	(1.063)	50538	4.05439	4.054
13	2-Methylphenol	108	9.320	9.320	(1.057)	182208	5.08813	5.088
17	Hexachloroethane	117	9.770	9.778	(1.108)	82375	5.15745	5.157
16	N-Nitroso-di-n-propylamine	70	9.630	9.630	(1.092)	133614	5.31905	5.319
15	4-Methylphenol	108	9.584	9.584	(1.087)	196050	5.12544	5.125
$ 18	Nitrobenzene-d5	82	9.894	9.894	(0.879)	267442	6.16699	6.167
19	Nitrobenzene	77	9.925	9.925	(0.881)	255440	6.38868	6.389
20	Isophorone	82	10.368	10.367	(0.921)	386904	6.26133	6.261
21	2-Nitrophenol	139	10.545	10.545	(0.937)	143648	6.30852	6.309
22	2,4-Dimethylphenol	107	10.613	10.605	(0.943)	358642	10.2066	10.21
23	Bis(2-Chloroethoxy)methane	93	10.792	10.792	(0.958)	182005	4.98951	4.990
24	Benzoic acid	105	10.843	10.834	(0.963)	434415	23.6815	23.68
25	2,4-Dichlorophenol	162	11.004	11.004	(0.977)	402399	11.1743	11.17
26	1,2,4-Trichlorobenzene	180	11.175	11.175	(0.992)	174983	5.02044	5.020
* 27	Naphthalene-d8	136	11.260	11.260	(1.000)	414185	4.00000	
28	Naphthalene	128	11.299	11.306	(1.003)	557023	5.42098	5.421
29	4-Chloroaniline	127	11.438	11.437	(1.016)	511561	10.2756	10.28
30	Hexachlorobutadiene	225	11.654	11.654	(1.035)	113987	5.94432	5.944
31	4-Chloro-3-methylphenol	107	12.405	12.405	(1.102)	451519	12.4776	12.48
32	2-Methylnaphthalene	142	12.675	12.675	(1.126)	565292	5.76490	5.765
33	Hexachlorocyclopentadiene	237	13.140	13.140	(0.886)	67776	4.03571	4.036

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.302	13.302	(0.897)	302586	12.8753	12.88
	35 2,4,5-Trichlorophenol	196	13.380	13.380	(0.902)	321051	13.0036	13.00
$	36 2-Fluorobiphenyl	172	13.457	13.457	(0.907)	534230	5.76972	5.770
	37 2-Chloronaphthalene	162	13.666	13.658	(0.921)	424231	5.75529	5.755
	38 2-Nitroaniline	65	13.929	13.929	(0.939)	315670	14.4229	14.42
	39 Dimethylphthalate	163	14.347	14.347	(0.967)	429417	5.64952	5.650
	40 Acenaphthylene	152	14.517	14.525	(0.979)	593543	5.16783	5.168
	41 2,6-Dinitrotoluene	165	14.486	14.486	(0.977)	198140	11.8037	11.80
*	42 Acenaphthene-d10	164	14.835	14.835	(1.000)	231755	4.00000	
	43 3-Nitroaniline	138	14.773	14.773	(0.996)	213002	9.42407	9.424
	44 Acenaphthene	153	14.897	14.896	(1.004)	317702	5.22966	5.230
	45 2,4-Dinitrophenol	184	14.982	14.982	(1.010)	112165	12.4437	12.44
	46 Dibenzofuran	168	15.221	15.221	(1.026)	610432	5.65469	5.655
	47 4-Nitrophenol	109	15.121	15.113	(1.019)	125250	15.1943	15.19
	48 2,4-Dinitrotoluene	165	15.291	15.291	(1.031)	275842	11.7719	11.77
	50 Diethylphthalate	149	15.793	15.793	(1.065)	383551	5.59825	5.598
	49 Fluorene	166	15.925	15.925	(1.073)	512063	5.34465	5.345
	51 4-Chlorophenyl-phenylether	204	15.917	15.917	(1.073)	228777	5.33471	5.335
	52 4-Nitroaniline	138	16.033	16.025	(1.081)	245295	10.4378	10.44
	53 4,6-Dinitro-2-methylphenol	198	16.125	16.125	(0.904)	262534	17.5566	17.56
	54 N-Nitrosodiphenylamine	169	16.171	16.171	(0.906)	304784	5.62684	5.627
$	55 2,4,6-Tribromophenol	330	16.457	16.457	(1.109)	71471	8.01782	8.018
	56 4-Bromophenyl-phenylether	248	16.912	16.912	(0.948)	129659	5.97202	5.972
	57 Hexachlorobenzene	284	17.221	17.221	(0.965)	115036	5.58931	5.589
	58 Pentachlorophenol	266	17.585	17.584	(0.986)	81108	10.4253	10.43
*	59 Phenanthrene-d10	188	17.840	17.832	(1.000)	362139	4.00000	
	60 Phenanthrene	178	17.886	17.886	(1.003)	460523	5.20867	5.209
	61 Anthracene	178	17.979	17.979	(1.008)	477719	5.02890	5.029
	62 Carbazole	167	18.312	18.312	(1.026)	495259	5.06212	5.062
	63 Di-n-butylphthalate	149	19.116	19.116	(1.072)	724977	5.98966	5.990
	64 Fluoranthene	202	20.277	20.269	(0.886)	605506	7.37359	7.374
	65 Pyrene	202	20.695	20.695	(0.904)	393160	4.66490	4.665
$	66 Terphenyl-d14	244	20.989	20.989	(0.917)	300600	5.67602	5.676
	67 Butylbenzylphthalate	149	21.918	21.918	(0.957)	216552	6.52862	6.529
	68 Benzo(a)anthracene	228	22.863	22.863	(0.999)	337748	5.15327	5.153
*	69 Chrysene-d12	240	22.894	22.886	(1.000)	187602	4.00000	
	70 3,3'-Dichlorobenzidine	252	22.824	22.824	(0.997)	426616	16.3605	16.36
	71 Chrysene	228	22.932	22.932	(1.002)	225066	4.33163	4.332
	72 bis(2-Ethylhexyl)phthalate	149	22.948	22.948	(0.959)	199007	5.73250	5.732
*	134 Di-n-octylphthalate-d4	153	23.931	23.931	(1.000)	360719	4.00000	
	73 Di-n-octylphthalate	149	23.939	23.939	(1.000)	405462	5.10001	5.100
	74 Benzo(b)fluoranthene	252	24.674	24.674	(0.972)	241662	5.02138	5.021
	75 Benzo(k)fluoranthene	252	24.713	24.713	(0.974)	262882	5.57204	5.572
	76 Benzo(a)pyrene	252	25.278	25.270	(0.996)	203888	4.79577	4.796
*	77 Perylene-d12	264	25.379	25.379	(1.000)	130813	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	27.827	27.812	(1.096)	182244	4.14955	4.150
	79 Dibenzo(a,h)anthracene	278	27.827	27.819	(1.096)	150162	4.46900	4.469
	80 Benzo(g,h,i)perylene	276	28.542	28.526	(1.125)	124005	3.23316	3.233
	90 N-Nitrosodimethylamine	74	4.504	4.504	(0.511)	227525	8.18604	8.186
	91 Aniline	93	8.282	8.281	(0.939)	605748	9.38471	9.385
	93 Benzidine	184	20.517	20.517	(0.896)	258967	7.28615	7.286
	103 Pyridine	79	4.519	4.519	(0.513)	332633	3.78822	3.788
	105 1-methylnaphthalene	142	12.900	12.900	(1.146)	498910	5.27484	5.275
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.241	16.241	(1.095)	471843	5.96858	5.969

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
187 Total Benzofluoranthenes	252	24.713	24.713	(0.974)	474292	10.3300	10.33
120 2,3,4,6-Tetrachlorophenol	232	15.561	15.561	(1.049)	91228	5.33668	5.337

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1021091127.D
Lab Smp Id: SJI0174-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20210911.b\ABN.m
Misc Info:

Calibration Date: 11-SEP-2021
Calibration Time: 13:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	137706	68853	275412	129096	-6.25
27 Naphthalene-d8	447216	223608	894432	414185	-7.39
42 Acenaphthene-d10	264765	132383	529530	231755	-12.47
59 Phenanthrene-d10	428682	214341	857364	362139	-15.52
69 Chrysene-d12	221118	110559	442236	187602	-15.16
134 Di-n-octylphthala	404470	202235	808940	360719	-10.82
77 Perylene-d12	154408	77204	308816	130813	-15.28

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	8.82	8.32	9.32	8.82	0.00
27 Naphthalene-d8	11.26	10.76	11.76	11.26	0.00
42 Acenaphthene-d10	14.84	14.34	15.34	14.84	0.00
59 Phenanthrene-d10	17.83	17.33	18.33	17.84	0.04
69 Chrysene-d12	22.89	22.39	23.39	22.89	0.03
134 Di-n-octylphthala	23.93	23.43	24.43	23.93	0.00
77 Perylene-d12	25.38	24.88	25.88	25.38	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 - NT1021091127.D

Lab ID: SJI0174-CCV1
nt10.i, ABN.m, 12-SEP-2021 02:56

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1021091106.D

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

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0235	Instrument:	NT10
		Calibration:	EH00053

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SJH0235-TUN1	NT1021081905.D	NA	08/19/21 14:35
CAL 5	SJH0235-CAL5	NT1021081906.D	NA	08/19/21 14:58
CAL 20	SJH0235-CAL7	NT1021081907.D	NA	08/19/21 15:36
CAL 0.2	SJH0235-CAL1	NT1021081908.D	NA	08/19/21 16:15
CAL 10	SJH0235-CAL6	NT1021081909.D	NA	08/19/21 16:53
CAL 0.5	SJH0235-CAL2	NT1021081910.D	NA	08/19/21 17:31
CAL 2.5	SJH0235-CAL4	NT1021081911.D	NA	08/19/21 18:09
CAL 1.0	SJH0235-CAL3	NT1021081912.D	NA	08/19/21 18:48
SCV 5.0	SJH0235-SCV1	NT1021081915.D	NA	08/19/21 20:42
Initial Cal Blank	SJH0235-ICB1	NT1021081916.D	NA	08/19/21 21:20

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 8/21/2021 1:53:28PM

ANALYSIS SEQUENCE

SJH0235

Instrument: NT10 Element Column ID: J008063
Calibration ID: EH00053 Tune File: 210819.U
EM Voltage: 1900

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SJH0235-TUN1	MS Tune	QC		1	J006358	J002469	
SJH0235-CAL5	CAL 5	QC		2	J008834	J002469	
SJH0235-CAL7	CAL 20	QC		3	J008836	J002469	
SJH0235-CAL1	CAL 0.2	QC		4	J008828	J002469	
SJH0235-CAL6	CAL 10	QC		5	J008835	J002469	
SJH0235-CAL2	CAL 0.5	QC		6	J008831	J002469	
SJH0235-CAL4	CAL 2.5	QC		7	J008833	J002469	
SJH0235-CAL3	CAL 1.0	QC		8	J008832	J002469	
SJH0235-SCV1	SCV 5.0	QC		9	J008837	J002469	
SJH0235-ICB1	Initial Cal Blank	QC		10	J008838	J002469	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210819.b

	Time	Filename	LabID	ClientId	DF																	
1	1435	NT1021081905.D	SJH0235-TUN1		1	|NO ISTDS FOUND||																
2	1458	NT1021081906.D	SJH0235-CAL5		1	| 9.43	97518	||11.92	336155	||15.53	204971	||18.59	357720	||23.61	291052	||26.43	273109	||24.64	588887|			
3	1536	NT1021081907.D	SJH0235-CAL7		1	| 9.43	63872	||11.92	216866	||15.54	139621	||18.59	235813	||23.61	196773	||26.43	184324	||24.64	422665|			
4	1615	NT1021081908.D	SJH0235-CAL1		1	| 9.43	111186	||11.91	362380	||15.53	201986	||18.58	347157	||23.60	271742	||26.42	244625	||24.63	492317|			
5	1653	NT1021081909.D	SJH0235-CAL6		1	| 9.43	76425	||11.92	258836	||15.53	161817	||18.58	285323	||23.61	226646	||26.43	209239	||24.64	476779|			
6	1731	NT1021081910.D	SJH0235-CAL2		1	| 9.43	104470	||11.91	340466	||15.53	197027	||18.58	340715	||23.60	268590	||26.42	241218	||24.63	484857|			
7	1809	NT1021081911.D	SJH0235-CAL4		1	| 9.43	83542	||11.92	276508	||15.53	168481	||18.58	296582	||23.60	238624	||26.43	221651	||24.64	448647|			
8	1848	NT1021081912.D	SJH0235-CAL3		1	| 9.43	98537	||11.91	324274	||15.53	195945	||18.58	332620	||23.60	268052	||26.42	243444	||24.63	490203|			
9	1926	NT1021081913.D	SIM-CAL2		1	| 9.43	107402	||11.91	343652	||15.53	193479	||18.58	331995	||23.60	258848	||26.42	232116	||24.63	437388|			
10	2004	NT1021081914.D	SIM-CAL1		1	| 9.43	109982	||11.91	354966	||15.53	194314	||18.58	339087	||23.60	264409	||26.42	237449	||24.64	452795|			
11	2042	NT1021081915.D	SJH0235-SCV1		1	| 9.43	86567	||11.92	286011	||15.54	175555	||18.59	315282	||23.61	260128	||26.43	235857	||24.64	500551|			
12	2120	NT1021081916.D	SJH0235-ICB1		1	| 9.43	96156	||11.92	334081	||15.53	189445	||18.58	329398	||23.60	256298	||26.42	233002	||24.63	434712|			

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210819.b

Instrument: nt10.i Date: 19-AUG-2021

Time	Filename	LabID	DF	Manually Integrated Compounds
1435	NT1021081905.D	SJH0235-TUN1	1	NO MANUAL INTEGRATION
1458	NT1021081906.D	SJH0235-CAL5	1	2,2'-oxybis(1-Chloropropane),
1536	NT1021081907.D	SJH0235-CAL7	1	2,2'-oxybis(1-Chloropropane),
1615	NT1021081908.D	SJH0235-CAL1	1	Benzoic acid, 4-Nitrophenol, Pentachlorophenol, Benzo(g,h,i)perylene,
1653	NT1021081909.D	SJH0235-CAL6	1	2,2'-oxybis(1-Chloropropane),
1731	NT1021081910.D	SJH0235-CAL2	1	2,4-Dinitrophenol, 4-Nitrophenol,
1809	NT1021081911.D	SJH0235-CAL4	1	2,2'-oxybis(1-Chloropropane),
1848	NT1021081912.D	SJH0235-CAL3	1	2,2'-oxybis(1-Chloropropane), 4-Nitrophenol,
1926	NT1021081913.D	SIM-CAL2	1	NO MANUAL INTEGRATION
2004	NT1021081914.D	SIM-CAL1	1	NO MANUAL INTEGRATION
2042	NT1021081915.D	SJH0235-SCV1	1	NO MANUAL INTEGRATION
2120	NT1021081916.D	SJH0235-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 21-Aug-2021 13:54

NT1021081905.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081906.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081907.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081908.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081909.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081910.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081911.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081912.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081913.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081914.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081915.D	Data Locked	van, 21-Aug-2021 13:54
NT1021081916.D	Data Locked	van, 21-Aug-2021 13:54

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
		Calibration:	EH00053

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SJI0174-TUN1	NT1021091105.D	NA	09/11/21 13:15
Initial Cal Check	SJI0174-ICV1	NT1021091106.D	NA	09/11/21 13:30
Blank	BJH0655-BLK1	NT1021091107.D	Solid	09/11/21 14:17
LCS	BJH0655-BS1	NT1021091108.D	Solid	09/11/21 14:55
LCS Dup	BJH0655-BSD1	NT1021091109.D	Solid	09/11/21 15:33
Reference	BJH0655-SRM1	NT1021091110.D	Solid	09/11/21 16:11
LDW20-IT384	21H0263-01	NT1021091111.D	Solid	09/11/21 16:49
LDW20-IT384	BJH0655-MS1	NT1021091112.D	Solid	09/11/21 17:27
LDW20-IT384	BJH0655-MSD1	NT1021091113.D	Solid	09/11/21 18:05
ZZZZZ	21H0261-02	NT1021091114.D	Solid	09/11/21 18:43
ZZZZZ	21H0261-03	NT1021091115.D	Solid	09/11/21 19:21
ZZZZZ	21H0261-04	NT1021091116.D	Solid	09/11/21 19:59
ZZZZZ	21H0262-01	NT1021091117.D	Solid	09/11/21 20:37
ZZZZZ	BJI0101-BLK1	NT1021091118.D	Solid	09/11/21 21:15
ZZZZZ	BJI0101-BS1	NT1021091119.D	Solid	09/11/21 21:53
ZZZZZ	BJI0101-BSD1	NT1021091120.D	Solid	09/11/21 22:31
ZZZZZ	21H0357-18	NT1021091121.D	Solid	09/11/21 23:09
ZZZZZ	21H0357-19	NT1021091122.D	Solid	09/11/21 23:47
ZZZZZ	21H0357-20	NT1021091123.D	Solid	09/12/21 00:25
ZZZZZ	21H0357-21	NT1021091124.D	Solid	09/12/21 01:02
Calibration Check	SJI0174-CCV1	NT1021091127.D	NA	09/12/21 02:56

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 9/12/2021 3:26:19PM

ANALYSIS SEQUENCE

SJI0174

Instrument: NT10 Element Column ID: j008063
Calibration ID: EH00053 Tune File: 210819u
EM Voltage: 2200

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SJI0174-TUN1	MS Tune	QC		1	J006358	J002469	
SJI0174-ICV1	Initial Cal Check	QC		2	J008834	J002469	
BJH0655-BLK1	Blank	QC		3		J002469	
BJH0655-BS1	LCS	QC		4		J002469	
BJH0655-BSD1	LCS Dup	QC		5		J002469	
BJH0655-SRM1	Reference	QC		6		J002469	
21H0263-01	LDW20-IT384	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 01	7		J002469	
BJH0655-MS1	Matrix Spike	QC		8		J002469	
BJH0655-MSD1	Matrix Spike Dup	QC		9		J002469	
21H0261-02	MKJ-081921-2	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 02	10		J002469	
21H0261-03	MKJ-081921-3	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 02	11		J002469	
21H0261-04	MKJ-081921-4	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 02	12		J002469	
21H0262-01	MKJ-081921-5	SVOC (20ug/kg solid or 0.2ug/L low H2C	A 02	13		J002469	
BJI0101-BLK1	Blank	QC		14		J002469	
BJI0101-BS1	LCS	QC		15		J002469	
BJI0101-BSD1	LCS Dup	QC		16		J002469	
21H0357-18	HA-12-12-24"-D	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 02	17		J002469	
21H0357-19	HA-11-0-12"	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 02	18		J002469	
21H0357-20	HA-11-12-24"	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 02	19		J002469	
21H0357-21	HA-15-0-12"	SVOC (20ug/kg solid or 0.2ug/L low H2C	B 02	20		J002469	
BJI0101-MS1	Matrix Spike	QC		21		J002469	
BJI0101-MSD1	Matrix Spike Dup	QC		22		J002469	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Printed: 9/12/2021 3:26:19PM

ANALYSIS SEQUENCE

SJI0174

Instrument: NT10 Element Column ID: j008063
Calibration ID: EH00053 Tune File: 210819u
EM Voltage: 2200

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SJI0174-CCV1	Calibration Check	QC		23	J008834	J002469	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210911.b

	Time	Filename	LabID	ClientId	DF																				
1	1330	NT1021091106.D	SJI0174-ICV1		1	8.82	137706	11.26	447216	14.84	264765	17.83	428682	22.89	221118	25.38	154408	23.93	404470
2	1417	NT1021091107.D	BJH0655-BLK1		1	8.82	163045	11.26	581878	14.84	325452	17.84	529932	22.89	245456	25.38	217537	23.93	501748
3	1455	NT1021091108.D	BJH0655-BS1		1	8.82	138244	11.26	455184	14.84	286657	17.84	460903	22.89	275098	25.38	205549	23.93	579481
4	1533	NT1021091109.D	BJH0655-BSD1		1	8.82	134125	11.26	436843	14.83	273178	17.84	424380	22.89	243562	25.37	201511	23.93	549269
5	1611	NT1021091110.D	BJH0655-SRM1		1	8.82	147760	11.26	447874	14.84	286721	17.84	413085	22.89	240963	25.37	194975	23.93	565360
6	1649	NT1021091111.D	21H0263-01		1	8.82	141922	11.26	504939	14.83	279049	17.83	441318	22.89	172387	25.37	154485	23.93	385159
7	1727	NT1021091112.D	BJH0655-MS1		1	8.82	137498	11.26	453294	14.84	263114	17.84	413853	22.89	169462	25.38	160362	23.93	414807
8	1805	NT1021091113.D	BJH0655-MSD1		1	8.82	124098	11.26	411493	14.84	234000	17.84	367971	22.89	158992	25.38	143980	23.93	379142
9	1843	NT1021091114.D	21H0261-02		1	8.82	159830	11.26	482316	14.83	262344	17.84	336783	22.89	162473	25.39	145539	23.94	359581
10	1921	NT1021091115.D	21H0261-03		1	8.82	180687	11.26	566324	14.84	261357	17.84	320007	22.89	170968	25.39	156657	23.93	383603
11	1959	NT1021091116.D	21H0261-04		1	8.82	159897	11.26	526982	14.84	249447	17.84	293388	22.89	164800	25.41	147869	23.94	364225
12	2037	NT1021091117.D	21H0262-01		1	8.82	155160	11.26	490829	14.84	225455	17.84	262913	22.91	173428	25.42	132264	23.95	367524
13	2115	NT1021091118.D	BJI0101-BLK1		1	8.82	161788	11.26	574300	14.84	279607	17.84	412545	22.89	164555	25.39	147750	23.93	357323
14	2153	NT1021091119.D	BJI0101-BS1		1	8.82	138198	11.27	466079	14.84	279212	17.84	434794	22.89	182373	25.38	157968	23.93	413283
15	2231	NT1021091120.D	BJI0101-BSD1		1	8.82	128224	11.26	419257	14.84	250598	17.84	406074	22.89	190859	25.38	151794	23.93	394908
16	2309	NT1021091121.D	21H0357-18		1	8.82	160040	11.26	510978	14.83	286187	17.84	416204	22.89	178150	25.39	140105	23.94	385612
17	2347	NT1021091122.D	21H0357-19		1	8.82	152321	11.26	528885	14.84	256953	17.84	363202	22.89	154224	25.39	126408	23.93	314963
18	0025	NT1021091123.D	21H0357-20		1	8.82	167850	11.26	584564	14.83	315956	17.84	473825	22.89	185702	25.38	159519	23.93	412416
19	0102	NT1021091124.D	21H0357-21		1	8.82	153172	11.26	543384	14.84	269735	17.84	370284	22.89	171275	25.39	137681	23.93	362053
20	0140	NT1021091125.D	BJI0101-MS1		1	8.82	130676	11.26	446676	14.84	244507	17.84	334602	22.89	164107	25.39	137357	23.94	364017

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210911.b

	Time	Filename	LabID	ClientId	DF																
21	0218	NT1021091126.D	BJI0101-MSD1		1	| 8.82	129563	||11.26	437346	||14.84	243535	||17.84	333383	||22.89	162103	||25.39	141015	||23.93	365541	|
22	0256	NT1021091127.D	SJI0174-CCV1		1	| 8.82	129096	||11.26	414185	||14.84	231755	||17.84	362139	||22.89	187602	||25.38	130813	||23.93	360719	|

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210911.b

ARI Job No.: SJI0 Method: ABN.m Instrument: nt10.i Date: 11-SEP-2021

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1330	NT1021091106.D	SJI0174-ICV1		1	2,2'-oxybis(1-Chloropropane),
1417	NT1021091107.D	BJH0655-BLK1		1	NO MANUAL INTEGRATION
1455	NT1021091108.D	BJH0655-BS1		1	NO MANUAL INTEGRATION
1533	NT1021091109.D	BJH0655-BSD1		1	NO MANUAL INTEGRATION
1611	NT1021091110.D	BJH0655-SRM1		1	NO MANUAL INTEGRATION
1649	NT1021091111.D	21H0263-01		1	Benzoic acid, Benzo(g,h,i)perylene,
1727	NT1021091112.D	BJH0655-MS1		1	NO MANUAL INTEGRATION
1805	NT1021091113.D	BJH0655-MSD1		1	NO MANUAL INTEGRATION
1843	NT1021091114.D	21H0261-02		1	Benzo(b)fluoranthene, Dibenzo(a,h)anthracene,
1921	NT1021091115.D	21H0261-03		1	Total Benzofluoranthenes,
1959	NT1021091116.D	21H0261-04		1	Benzoic acid, Total Benzofluoranthenes,
2037	NT1021091117.D	21H0262-01		1	Benzo(k)fluoranthene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2115	NT1021091118.D	BJI0101-BLK1		1	NO MANUAL INTEGRATION
2153	NT1021091119.D	BJI0101-BS1		1	NO MANUAL INTEGRATION
2231	NT1021091120.D	BJI0101-BSD1		1	NO MANUAL INTEGRATION
2309	NT1021091121.D	21H0357-18		1	Benzo(k)fluoranthene,
2347	NT1021091122.D	21H0357-19		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20210911.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0025	NT1021091123.D	21H0357-20		1	Indeno(1,2,3-cd)pyrene,
0102	NT1021091124.D	21H0357-21		1	NO MANUAL INTEGRATION
0140	NT1021091125.D	BJI0101-MS1		1	NO MANUAL INTEGRATION
0218	NT1021091126.D	BJI0101-MSD1		1	NO MANUAL INTEGRATION
0256	NT1021091127.D	SJI0174-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 12-Sep-2021 15:20

NT1021091106.D	Data Locked	yev, 12-
NT1021091107.D	Data Locked	yev, 12-
NT1021091108.D	Data Locked	yev, 12-
NT1021091109.D	Data Locked	yev, 12-
NT1021091110.D	Data Locked	yev, 12-
NT1021091111.D	Data Locked	yev, 12-
NT1021091112.D	Data Locked	yev, 12-
NT1021091113.D	Data Locked	yev, 12-
NT1021091114.D	Data Locked	yev, 12-
NT1021091115.D	Data Locked	yev, 12-
NT1021091116.D	Data Locked	yev, 12-
NT1021091117.D	Data Locked	yev, 12-
NT1021091118.D	Data Locked	yev, 12-
NT1021091119.D	Data Locked	yev, 12-
NT1021091120.D	Data Locked	yev, 12-
NT1021091121.D	Data Locked	yev, 12-
NT1021091122.D	Data Locked	yev, 12-
NT1021091123.D	Data Locked	yev, 12-
NT1021091124.D	Data Locked	yev, 12-
NT1021091125.D	Data Locked	yev, 12-
NT1021091126.D	Data Locked	yev, 12-
NT1021091127.D	Data Locked	yev, 12-

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG/WO:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0235	Instrument:	NT10
Calibration:	EH00053	Calibration Date:	08/19/2021

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SJH0235-ICB1 (Water)			Lab File ID: NT1021081916.D				Analyzed: 08/19/21 21:20	
2-Fluorophenol	7.5000	84.5	30 - 160	7.184	7.189714	-0.0057	N/A	
Phenol-d5	7.5000	80.4	30 - 160	8.76	8.768143	-0.0081	N/A	
2-Chlorophenol-d4	7.5000	95.4	30 - 160	9.061	9.065857	-0.0049	N/A	
1,2-Dichlorobenzene-d4	5.0000	95.8	30 - 160	9.79	9.792286	-0.0023	N/A	
Nitrobenzene-d5	5.0000	89.2	30 - 160	10.52	10.52343	-0.0034	N/A	
2-Fluorobiphenyl	5.0000	91.4	30 - 160	14.125	14.12643	-0.0014	N/A	
2,4,6-Tribromophenol	7.5000	85.1	30 - 160	17.179	17.18129	-0.0023	N/A	
p-Terphenyl-d14	5.0000	93.8	30 - 160	21.688	21.688	0.0000	N/A	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG/WO:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
Calibration:	EH00053	Calibration Date:	08/19/2021

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SJI0174-ICV1 (Water)			Lab File ID: NT1021091106.D				Analyzed: 09/11/21 13:30	
2-Fluorophenol	7.5000	101	80 - 120	6.635	7.189714	-0.5547	N/A	
Phenol-d5	7.5000	112	80 - 120	8.204	8.768143	-0.5641	N/A	
2-Chlorophenol-d4	7.5000	98.5	80 - 120	8.459	9.065857	-0.6069	N/A	
1,2-Dichlorobenzene-d4	5.0000	99.4	80 - 120	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	5.0000	117	80 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	5.0000	111	80 - 120	13.457	14.12643	-0.6694	N/A	
2,4,6-Tribromophenol	7.5000	107	80 - 120	16.457	17.18129	-0.7243	N/A	
p-Terphenyl-d14	5.0000	126	80 - 120	20.989	21.688	-0.6990	N/A	*
BJH0655-BLK1 (Solid)			Lab File ID: NT1021091107.D				Analyzed: 09/11/21 14:17	
1,2-Dichlorobenzene-d4	500.00	88.8	32 - 120	9.172	9.792286	-0.6203	N/A	
Nitrobenzene-d5	500.00	105	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	500.00	102	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	500.00	146	37 - 120	20.989	21.688	-0.6990	N/A	*
BJH0655-BS1 (Solid)			Lab File ID: NT1021091108.D				Analyzed: 09/11/21 14:55	
1,2-Dichlorobenzene-d4	500.00	80.8	32 - 120	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	500.00	103	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	500.00	90.6	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	500.00	110	37 - 120	20.989	21.688	-0.6990	N/A	
BJH0655-BSD1 (Solid)			Lab File ID: NT1021091109.D				Analyzed: 09/11/21 15:33	
1,2-Dichlorobenzene-d4	500.00	95.7	32 - 120	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	500.00	124	30 - 120	9.894	10.52343	-0.6294	N/A	*
2-Fluorobiphenyl	500.00	108	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	500.00	133	37 - 120	20.989	21.688	-0.6990	N/A	*
BJH0655-SRM1 (Solid)			Lab File ID: NT1021091110.D				Analyzed: 09/11/21 16:11	
1,2-Dichlorobenzene-d4	5000.0	85.5	32 - 120	9.165	9.792286	-0.6273	N/A	
Nitrobenzene-d5	5000.0	101	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	5000.0	91.8	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	5000.0	99.2	37 - 120	20.989	21.688	-0.6990	N/A	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG/WO:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
Calibration:	EH00053	Calibration Date:	08/19/2021

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
21H0263-01 (Solid)			Lab File ID: NT1021091111.D				Analyzed: 09/11/21 16:49	
1,2-Dichlorobenzene-d4	999.99	80.8	32 - 120	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	999.99	93.8	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	999.99	93.7	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	999.99	102	37 - 120	20.989	21.688	-0.6990	N/A	
BJH0655-MS1 (Solid)			Lab File ID: NT1021091112.D				Analyzed: 09/11/21 17:27	
1,2-Dichlorobenzene-d4	999.99	68.8	32 - 120	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	999.99	89.4	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	999.99	86.0	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	999.99	91.5	37 - 120	20.989	21.688	-0.6990	N/A	*
BJH0655-MSD1 (Solid)			Lab File ID: NT1021091113.D				Analyzed: 09/11/21 18:05	
1,2-Dichlorobenzene-d4	999.99	82.2	32 - 120	9.165	9.792286	-0.6273	N/A	
Nitrobenzene-d5	999.99	109	30 - 120	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	999.99	103	35 - 120	13.457	14.12643	-0.6694	N/A	
p-Terphenyl-d14	999.99	105	37 - 120	20.989	21.688	-0.6990	N/A	*
SJI0174-CCV1 (Water)			Lab File ID: NT1021091127.D				Analyzed: 09/12/21 02:56	
2-Fluorophenol	7.5000	102	50 - 150	6.635	7.189714	-0.5547	N/A	
Phenol-d5	7.5000	114	50 - 150	8.204	8.768143	-0.5641	N/A	
2-Chlorophenol-d4	7.5000	102	50 - 150	8.459	9.065857	-0.6069	N/A	
1,2-Dichlorobenzene-d4	5.0000	99.2	50 - 150	9.164	9.792286	-0.6283	N/A	
Nitrobenzene-d5	5.0000	123	50 - 150	9.894	10.52343	-0.6294	N/A	
2-Fluorobiphenyl	5.0000	115	50 - 150	13.457	14.12643	-0.6694	N/A	
2,4,6-Tribromophenol	7.5000	107	50 - 150	16.457	17.18129	-0.7243	N/A	
p-Terphenyl-d14	5.0000	114	50 - 150	20.989	21.688	-0.6990	N/A	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0235	Instrument:	NT10
		Calibration:	EH00053

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SJH0235-SCV1)		(Water)		Lab File ID: NT1021081915.D				Analyzed: 08/19/21 20:42	
1,4-Dichlorobenzene-d4	86567	9.433	97518	9.433	89	50 - 200	0.000	+/-0.50	
Naphthalene-d8	286011	11.921	336155	11.921	85	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	175555	15.542	204971	15.534	86	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	315282	18.586	357720	18.586	88	50 - 200	0.000	+/-0.50	
Chrysene-d12	260128	23.608	291052	23.608	89	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	500551	24.638	588887	24.638	85	50 - 200	0.000	+/-0.50	
Perylene-d12	235857	26.427	273109	26.426	86	50 - 200	0.001	+/-0.50	
Initial Cal Blank (SJH0235-ICB1)		(Water)		Lab File ID: NT1021081916.D				Analyzed: 08/19/21 21:20	
1,4-Dichlorobenzene-d4	96156	9.425	97518	9.433	99	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	334081	11.92	336155	11.921	99	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	189445	15.534	204971	15.534	92	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	329398	18.578	357720	18.586	92	50 - 200	-0.008	+/-0.50	
Chrysene-d12	256298	23.6	291052	23.608	88	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	434712	24.63	588887	24.638	74	50 - 200	-0.008	+/-0.50	
Perylene-d12	233002	26.418	273109	26.426	85	50 - 200	-0.008	+/-0.50	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
		Calibration:	EH00053

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SJI0174-ICV1)		(Water)		Lab File ID: NT1021091106.D				Analyzed: 09/11/21 13:30	
1,4-Dichlorobenzene-d4	137706	8.815	137706	8.815	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	447216	11.26	447216	11.26	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	264765	14.835	264765	14.835	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	428682	17.832	428682	17.832	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	221118	22.886	221118	22.886	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	404470	23.931	404470	23.931	100	50 - 200	0.000	+/-0.50	
Perylene-d12	154408	25.379	154408	25.379	100	50 - 200	0.000	+/-0.50	
Blank (BJH0655-BLK1)		(Solid)		Lab File ID: NT1021091107.D				Analyzed: 09/11/21 14:17	
1,4-Dichlorobenzene-d4	163045	8.815	137706	8.815	118	50 - 200	0.000	+/-0.50	
Naphthalene-d8	581878	11.26	447216	11.26	130	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	325452	14.835	264765	14.835	123	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	529932	17.84	428682	17.832	124	50 - 200	0.008	+/-0.50	
Chrysene-d12	245456	22.886	221118	22.886	111	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	501748	23.931	404470	23.931	124	50 - 200	0.000	+/-0.50	
Perylene-d12	217537	25.379	154408	25.379	141	50 - 200	0.000	+/-0.50	
LCS (BJH0655-BS1)		(Solid)		Lab File ID: NT1021091108.D				Analyzed: 09/11/21 14:55	
1,4-Dichlorobenzene-d4	138244	8.815	137706	8.815	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	455184	11.26	447216	11.26	102	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	286657	14.835	264765	14.835	108	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	460903	17.84	428682	17.832	108	50 - 200	0.008	+/-0.50	
Chrysene-d12	275098	22.886	221118	22.886	124	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	579481	23.931	404470	23.931	143	50 - 200	0.000	+/-0.50	
Perylene-d12	205549	25.379	154408	25.379	133	50 - 200	0.000	+/-0.50	
LCS Dup (BJH0655-BSD1)		(Solid)		Lab File ID: NT1021091109.D				Analyzed: 09/11/21 15:33	
1,4-Dichlorobenzene-d4	134125	8.815	137706	8.815	97	50 - 200	0.000	+/-0.50	
Naphthalene-d8	436843	11.26	447216	11.26	98	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	273178	14.834	264765	14.835	103	50 - 200	-0.001	+/-0.50	
Phenanthrene-d10	424380	17.84	428682	17.832	99	50 - 200	0.008	+/-0.50	
Chrysene-d12	243562	22.886	221118	22.886	110	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	549269	23.931	404470	23.931	136	50 - 200	0.000	+/-0.50	
Perylene-d12	201511	25.371	154408	25.379	131	50 - 200	-0.008	+/-0.50	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
		Calibration:	EH00053

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Reference (BJH0655-SRM1)		(Solid)		Lab File ID: NT1021091110.D				Analyzed: 09/11/21 16:11	
1,4-Dichlorobenzene-d4	147760	8.815	137706	8.815	107	50 - 200	0.000	+/-0.50	
Naphthalene-d8	447874	11.26	447216	11.26	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	286721	14.835	264765	14.835	108	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	413085	17.84	428682	17.832	96	50 - 200	0.008	+/-0.50	
Chrysene-d12	240963	22.886	221118	22.886	109	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	565360	23.931	404470	23.931	140	50 - 200	0.000	+/-0.50	
Perylene-d12	194975	25.371	154408	25.379	126	50 - 200	-0.008	+/-0.50	
LDW20-IT384 (21H0263-01)		(Solid)		Lab File ID: NT1021091111.D				Analyzed: 09/11/21 16:49	
1,4-Dichlorobenzene-d4	141922	8.815	137706	8.815	103	50 - 200	0.000	+/-0.50	
Naphthalene-d8	504939	11.26	447216	11.26	113	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	279049	14.827	264765	14.835	105	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	441318	17.832	428682	17.832	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	172387	22.886	221118	22.886	78	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	385159	23.931	404470	23.931	95	50 - 200	0.000	+/-0.50	
Perylene-d12	154485	25.371	154408	25.379	100	50 - 200	-0.008	+/-0.50	
Matrix Spike (BJH0655-MS1)		(Solid)		Lab File ID: NT1021091112.D				Analyzed: 09/11/21 17:27	
1,4-Dichlorobenzene-d4	137498	8.815	137706	8.815	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	453294	11.26	447216	11.26	101	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	263114	14.835	264765	14.835	99	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	413853	17.84	428682	17.832	97	50 - 200	0.008	+/-0.50	
Chrysene-d12	169462	22.886	221118	22.886	77	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	414807	23.931	404470	23.931	103	50 - 200	0.000	+/-0.50	
Perylene-d12	160362	25.379	154408	25.379	104	50 - 200	0.000	+/-0.50	
Matrix Spike Dup (BJH0655-MSD1)		(Solid)		Lab File ID: NT1021091113.D				Analyzed: 09/11/21 18:05	
1,4-Dichlorobenzene-d4	124098	8.815	137706	8.815	90	50 - 200	0.000	+/-0.50	
Naphthalene-d8	411493	11.26	447216	11.26	92	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	234000	14.835	264765	14.835	88	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	367971	17.84	428682	17.832	86	50 - 200	0.008	+/-0.50	
Chrysene-d12	158992	22.886	221118	22.886	72	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	379142	23.931	404470	23.931	94	50 - 200	0.000	+/-0.50	
Perylene-d12	143980	25.379	154408	25.379	93	50 - 200	0.000	+/-0.50	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJI0174	Instrument:	NT10
		Calibration:	EH00053

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (SJI0174-CCV1)		(Water)		Lab File ID: NT1021091127.D				Analyzed: 09/12/21 02:56	
Phenanthrene-d10	362139	17.84	428682	17.832	84	50 - 200	0.008	+/-0.50	
Chrysene-d12	187602	22.894	221118	22.886	85	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	360719	23.931	404470	23.931	89	50 - 200	0.000	+/-0.50	
Perylene-d12	130813	25.379	154408	25.379	85	50 - 200	0.000	+/-0.50	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, Inc. SDG: 21H0263

Client: Anchor QEA, LLC Project: Lower Duwamish AOC4

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
LDW20-IT384 21H0263-01	06/23/20 06:06	08/21/21 09:39	08/30/21 12:10	433	365	09/11/21 16:49	12	40	*
Matrix Spike BJH0655-MS1	06/23/20 06:06	08/21/21 09:39	08/30/21 12:10	433	365	09/11/21 17:27	12	40	*
Matrix Spike Dup BJH0655-MSD1	06/23/20 06:06	08/21/21 09:39	08/30/21 12:10	433	365	09/11/21 18:05	12	40	*

* Indicates hold time exceedance.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
Naphthalene	4.2	20.0	ug/kg
2-Methylnaphthalene	4.5	20.0	ug/kg
Acenaphthylene	6.2	20.0	ug/kg
Acenaphthene	5.2	20.0	ug/kg
Fluorene	14.6	20.0	ug/kg
Phenanthrene	8.7	20.0	ug/kg
Anthracene	7.2	20.0	ug/kg
Fluoranthene	6.1	20.0	ug/kg
Pyrene	5.7	20.0	ug/kg
Benzo(a)anthracene	6.0	20.0	ug/kg
Chrysene	6.1	20.0	ug/kg
Benzofluoranthenes, Total	10.0	40.0	ug/kg
Benzo(a)pyrene	4.2	20.0	ug/kg
Indeno(1,2,3-cd)pyrene	14.7	20.0	ug/kg
Dibenzo(a,h)anthracene	17.2	20.0	ug/kg
Benzo(g,h,i)perylene	13.6	20.0	ug/kg

Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Water
Instrument: NT10

Analyte	MDL	RL	Units
Phenol	0.01	0.2	ug/L
bis(2-chloroethyl) ether	0.03	0.2	ug/L
2-Chlorophenol	0.03	0.2	ug/L
1,3-Dichlorobenzene	0.03	0.2	ug/L
1,4-Dichlorobenzene	0.03	0.2	ug/L
1,2-Dichlorobenzene	0.03	0.2	ug/L
Benzyl Alcohol	0.02	0.2	ug/L
2,2'-Oxybis(1-chloropropane)	0.03	0.2	ug/L
2-Methylphenol	0.03	0.2	ug/L
Hexachloroethane	0.04	0.2	ug/L
N-Nitroso-di-n-Propylamine	0.04	0.2	ug/L
4-Methylphenol	0.03	0.2	ug/L
Nitrobenzene	0.03	0.2	ug/L
Isophorone	0.03	0.2	ug/L
2-Nitrophenol	0.04	1.0	ug/L
2,4-Dimethylphenol	0.3	1.0	ug/L
Bis(2-Chloroethoxy)methane	0.03	0.2	ug/L
2,4-Dichlorophenol	0.1	1.0	ug/L
1,2,4-Trichlorobenzene	0.03	0.2	ug/L
Naphthalene	0.03	0.2	ug/L
Benzoic acid	0.1	2.0	ug/L
4-Chloroaniline	0.04	1.0	ug/L
Hexachlorobutadiene	0.04	0.2	ug/L
4-Chloro-3-Methylphenol	0.1	1.0	ug/L
2-Methylnaphthalene	0.03	0.2	ug/L
Hexachlorocyclopentadiene	0.1	1.0	ug/L
2,4,6-Trichlorophenol	0.2	1.0	ug/L
2,4,5-Trichlorophenol	0.1	1.0	ug/L
2-Chloronaphthalene	0.03	0.2	ug/L
2-Nitroaniline	0.2	1.0	ug/L
Acenaphthylene	0.02	0.2	ug/L
Dimethylphthalate	0.04	0.2	ug/L
2,6-Dinitrotoluene	0.2	1.0	ug/L
Acenaphthene	0.03	0.2	ug/L
3-Nitroaniline	0.2	1.0	ug/L
2,4-Dinitrophenol	0.2	2.0	ug/L

Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Water
Instrument: NT10

Analyte	MDL	RL	Units
Dibenzofuran	0.02	0.2	ug/L
4-Nitrophenol	0.06	1.0	ug/L
2,4-Dinitrotoluene	0.1	1.0	ug/L
Fluorene	0.02	0.2	ug/L
4-Chlorophenylphenyl ether	0.02	0.2	ug/L
Diethyl phthalate	0.06	0.2	ug/L
4-Nitroaniline	0.2	1.0	ug/L
4,6-Dinitro-2-methylphenol	0.4	2.0	ug/L
N-Nitrosodiphenylamine	0.03	0.2	ug/L
4-Bromophenyl phenyl ether	0.02	0.2	ug/L
Hexachlorobenzene	0.04	0.2	ug/L
Pentachlorophenol	0.1	1.0	ug/L
Phenanthrene	0.02	0.2	ug/L
Anthracene	0.03	0.2	ug/L
Carbazole	0.04	0.2	ug/L
Di-n-Butylphthalate	0.05	0.2	ug/L
Fluoranthene	0.03	0.2	ug/L
Pyrene	0.03	0.2	ug/L
Butylbenzylphthalate	0.07	0.2	ug/L
Benzo(a)anthracene	0.04	0.2	ug/L
3,3'-Dichlorobenzidine	0.3	1.0	ug/L
Chrysene	0.04	0.2	ug/L
bis(2-Ethylhexyl)phthalate	0.2	0.2	ug/L
Di-n-Octylphthalate	0.05	0.2	ug/L
Benzofluoranthenes, Total	0.08	0.4	ug/L
Benzo(a)pyrene	0.05	0.2	ug/L
Indeno(1,2,3-cd)pyrene	0.06	0.2	ug/L
Dibenzo(a,h)anthracene	0.07	0.2	ug/L
Benzo(g,h,i)perylene	0.04	0.2	ug/L
1-Methylnaphthalene	0.03	0.2	ug/L

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

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

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: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH 5021

Purity: 90 ~ 94%

Analyst: [illegible]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

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

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: [illegible]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

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

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: KB.

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

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

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: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ.

Certificate of Analysis

SIGMA-ALDRICH

Product Name	1,2,4,5-Tetrachlorobenzene, 98%
Product Number	131857
Product Brand	ALDRICH
CAS Number	95-94-3
Molecular Formula	$C_6H_2Cl_4$
Molecular Weight	215.89

F 209172
Re logged
10/06/17
pc

TEST	SPECIFICATION	LOT 19309jr RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS ILLUSTRATED ON PAGE 1011C OF EDITION I, VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

See also I 1107A
pc 10/06/17

Certificate of Analysis

BNAs - Sandy Loam50g

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC2475**
Expiration Date April 2022
Manufacturing Date April 2019
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2-Dichlorobenzene	µg/Kg	1700 ± 23.9
1,3-Dichlorobenzene	µg/Kg	5610 ± 86.1
1,4-Dichlorobenzene	µg/Kg	7450 ± 114
2,4,5-Trichlorophenol	µg/Kg	4150 ± 45.7
2,4,6-Trichlorophenol	µg/Kg	5880 ± 65.8
2,4-Dichlorophenol	µg/Kg	4410 ± 52.9
2,4-Dimethylphenol	µg/Kg	4380 ± 50.1
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	5760 ± 69.8
2,6-Dichlorophenol	µg/Kg	6720 ± 65.3
2,6-Dinitrotoluene (2,6-DNT)	µg/Kg	7300 ± 85.9
2-Chloronaphthalene	µg/Kg	3000 ± 26.3
2-Chlorophenol	µg/Kg	6050 ± 75.9
2-Methylnaphthalene	µg/Kg	3630 ± 45.8
2-Methylphenol (o-Cresol)	µg/Kg	5870 ± 70.8
2-Nitroaniline	µg/Kg	2350 ± 29.6
2-Nitrophenol	µg/Kg	3670 ± 45
3+4-Methylphenol (m+p-Cresol)	µg/Kg	6150 ± 74.8
4-Bromophenyl phenyl ether	µg/Kg	3500 ± 38.2
4-Chlorophenyl phenylether	µg/Kg	1680 ± 18.6
4-Methylphenol (p-Cresol)	µg/Kg	5980 ± 74.8
4-Nitrophenol	µg/Kg	3870 ± 55.7

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

SIGMA-ALDRICH
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rtctechgroup@sial.com www.sigma-aldrich.com

Description

Lot **LRAC2475**
Expiration Date April 2022
Manufacturing Date April 2019
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthene	µg/Kg	4250 ± 53.4
Acenaphthylene	µg/Kg	5450 ± 70.8
Anthracene	µg/Kg	3240 ± 47.1
Benzo(a)anthracene	µg/Kg	3280 ± 39.9
Benzo(a)pyrene	µg/Kg	1690 ± 23.1
Benzo(b)fluoranthene	µg/Kg	6180 ± 75.2
Benzo(g,h,i)perylene	µg/Kg	2550 ± 33.4
Benzo(k)fluoranthene	µg/Kg	1700 ± 19.8
bis(2-Chloroethoxy)methane	µg/Kg	4860 ± 64.4
bis(2-Chloroethyl) ether	µg/Kg	3490 ± 46.3
Chrysene	µg/Kg	1750 ± 20.6
Dibenzo(a,h)anthracene	µg/Kg	3030 ± 35.6
Dibenzofuran	µg/Kg	4010 ± 55.9
Di-n-octyl phthalate	µg/Kg	7640 ± 89.8
Fluoranthene	µg/Kg	4060 ± 47.3
Fluorene	µg/Kg	5780 ± 71.6
Hexachlorobenzene	µg/Kg	2610 ± 31.4
Hexachloroethane	µg/Kg	5770 ± 90.8
Indeno(1,2,3-cd) pyrene	µg/Kg	2670 ± 32.6
Isophorone	µg/Kg	7010 ± 89.8
Naphthalene	µg/Kg	1920 ± 24.5
n-Nitrosodimethylamine	µg/Kg	2990 ± 52.9
n-Nitroso-di-n-propylamine	µg/Kg	7930 ± 102
n-Nitrosodiphenylamine	µg/Kg	5460 ± 86.1
Pentachlorophenol	µg/Kg	5820 ± 75.9
Phenanthrene	µg/Kg	2210 ± 23.7
Phenol	µg/Kg	4870 ± 60.5

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

Certificate of Analysis

BNAs - Sandy Loam50g

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC2475**
Expiration Date April 2022
Manufacturing Date April 2019
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Pyrene	µg/Kg	6300 ± 70.8

Informational Values

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2-Dichlorobenzene	µg/Kg	283 to 3120	472
1,3-Dichlorobenzene	µg/Kg	924 to 10300	1560
1,4-Dichlorobenzene	µg/Kg	897 to 14000	2180
2,4,5-Trichlorophenol	µg/Kg	1330 to 6970	941
2,4,6-Trichlorophenol	µg/Kg	2510 to 9240	1120
2,4-Dichlorophenol	µg/Kg	1280 to 7550	1040
2,4-Dimethylphenol	µg/Kg	832 to 7930	1180
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1840 to 9680	1310
2,6-Dichlorophenol	µg/Kg	1490 to 12000	1750
2,6-Dinitrotoluene (2,6-DNT)	µg/Kg	1940 to 12700	1790
2-Chloronaphthalene	µg/Kg	0 to 6240	1080
2-Chlorophenol	µg/Kg	988 to 11100	1690
2-Methylnaphthalene	µg/Kg	1840 to 5420	597
2-Methylphenol (o-Cresol)	µg/Kg	1580 to 10200	1430
2-Nitroaniline	µg/Kg	940 to 3760	470
2-Nitrophenol	µg/Kg	824 to 6520	950
3+4-Methylphenol (m+p-Cresol)	µg/Kg	776 to 11500	1790
4-Bromophenyl phenyl ether	µg/Kg	1230 to 5770	757
4-Chlorophenyl phenylether	µg/Kg	860 to 2500	274
4-Methylphenol (p-Cresol)	µg/Kg	620 to 11300	1790
4-Nitrophenol	µg/Kg	0 to 12100	2740
Acenaphthene	µg/Kg	2500 to 6000	584
Acenaphthylene	µg/Kg	3130 to 7760	771
Anthracene	µg/Kg	1690 to 4800	519
Benzo(a)anthracene	µg/Kg	1090 to 5470	730
Benzo(a)pyrene	µg/Kg	749 to 2640	315
Benzo(b)fluoranthene	µg/Kg	3100 to 9270	1030
Benzo(g,h,i)perylene	µg/Kg	1020 to 4090	511
Benzo(k)fluoranthene	µg/Kg	0 to 3690	661
bis(2-Chloroethoxy)methane	µg/Kg	1200 to 8520	1220

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rtctechgroup@sial.com www.sigma-aldrich.com

Description

Lot **LRAC2475**
Expiration Date April 2022
Manufacturing Date April 2019
Storage Conditions Refrigerate
Solvent/Matrix SOIL

bis(2-Chloroethyl) ether	µg/Kg	37.6 to 6940	1150
Chrysene	µg/Kg	1080 to 2430	225
Dibenzo(a,h)anthracene	µg/Kg	581 to 5470	815
Dibenzofuran	µg/Kg	2310 to 5710	567
Di-n-octyl phthalate	µg/Kg	569 to 14700	2360
Fluoranthene	µg/Kg	1850 to 6280	738
Fluorene	µg/Kg	2750 to 8810	1010
Hexachlorobenzene	µg/Kg	1080 to 4150	512
Hexachloroethane	µg/Kg	493 to 11000	1760
Indeno(1,2,3-cd) pyrene	µg/Kg	710 to 4630	654
Isophorone	µg/Kg	1420 to 12600	1860
Naphthalene	µg/Kg	788 to 3050	377
n-Nitrosodimethylamine	µg/Kg	0 to 6210	1080
n-Nitroso-di-n-propylamine	µg/Kg	2330 to 13500	1870
n-Nitrosodiphenylamine	µg/Kg	1330 to 9590	1380
Pentachlorophenol	µg/Kg	485 to 11200	1780
Phenanthrene	µg/Kg	885 to 3530	440
Phenol	µg/Kg	889 to 8840	1330
Pyrene	µg/Kg	1670 to 10900	1540

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 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. 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 4ºC.

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.

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

Certificate of Analysis

BNAs - Sandy Loam50g

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC2475**
Expiration Date April 2022
Manufacturing Date April 2019
Storage Conditions Refrigerate
Solvent/Matrix SOIL

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. Rigorous analyses identified, quantified, and certified various aliphatic and aromatic banding which are listed on the enclosed Certificate of Analysis. The sample has been analyzed by a minimum of 12 independent laboratories in a round-robin to meet the requirements specified by the ISO Guides 34 and 35, and ISO 17025.

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. 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:

$$u_{CRM} = \sqrt{u^2_{char} + u^2_{homogeneity} + u^2_{stability}}$$

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 preformed 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.

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).**

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.

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date August 09, 2019
Version 0-892019

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rtctechgroup@sial.com www.sigma-aldrich.com

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

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.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL15236
Certification Date: April 28, 2020
Expiration Date: April 30, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.231%
3,3'-Dichlorobenzidine	91-94-1	2000	± 0.116%

I007617
Benzidines std @2000ug/ml
Solvent / Lot: Mecl2
Prep: 8/27/2020 by JZ
Exp: 4/30/2030
Location: GC

08/27/20.

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

TCL HAZARDOUS SUBSTANCES MIX 2,1X1ML,2000UG/ML,DICHLOROMETHA

Certified Reference Material

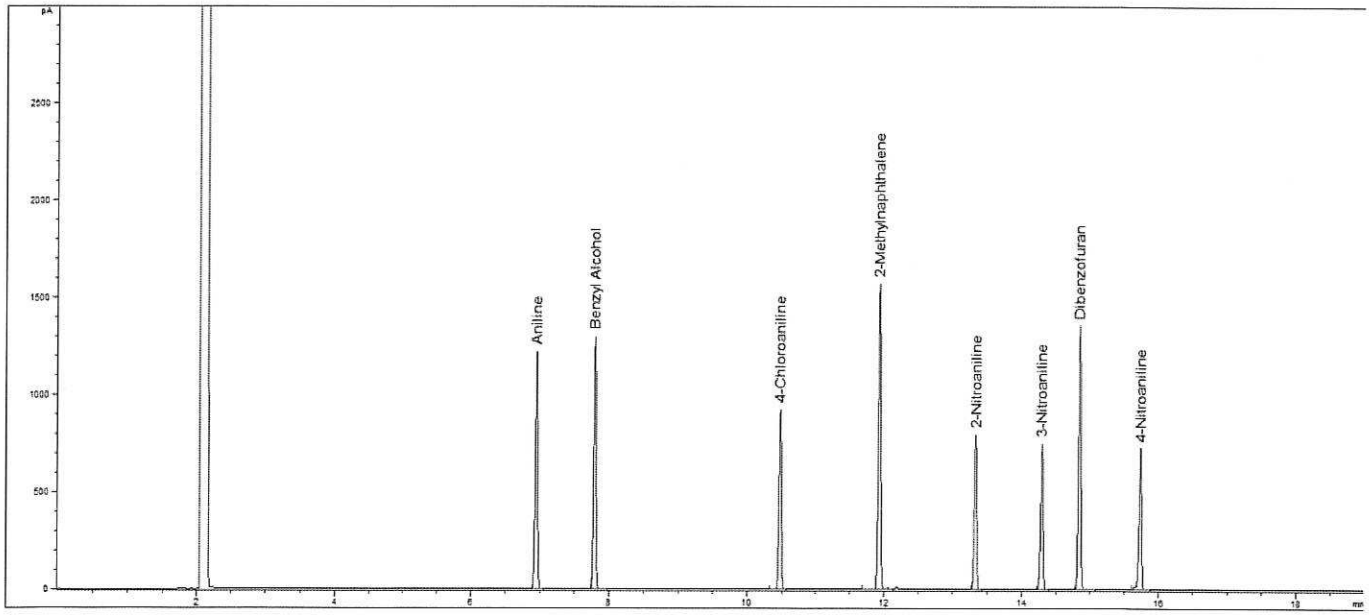
Description

Product ID 48908
Lot **LRAC2138**
Expiration Date February 2022
Manufacturing Date March 2019
Storage Conditions Refrigerate
Solvent/Matrix Dichloromethane/Benzene 80:20

I009199
toxic sub mix#2
Solvent / Lot: LRAC2138
Prep: 10/6/2020 by VS
Exp: 2/28/2022
Location:

Certified Values

Analyte	*Units*	*Certified Value* [1,4]	*Raw Material Purity,%*	*Analytical Value*	*Elution order*	*Raw Material Lot*	*CAS*
ANILINE	µg/mL	2008 ± 89	99.9%	1990	1	LA41596	62-53-3
BENZYL ALCOHOL	µg/mL	2008 ± 87	98.2%	2020	2	LC07608	100-51-6
4-CHLOROANILINE	µg/mL	2008 ± 84	99.5%	1990	3	P500200	106-47-8
2-METHYLNAPHTHALENE	µg/mL	2008 ± 87	98.2%	2005	4	LB97828	91-57-6
2-NITROANILINE	µg/mL	2008 ± 82	99.9%	2021	5	07411KN	88-74-4
3-NITROANILINE	µg/mL	2008 ± 86	100%	2009	6	MKBX1283V	99-09-2
DIBENZOFURAN	µg/mL	2008 ± 80	98.8%	1988	7	LB78814	132-64-9
4-NITROANILINE	µg/mL	2008 ± 91	99.9%	2025	8	LC11400	100-01-6



Additional Information:

Analytical Method Parameters:

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
307-742-5452
rctechgroup@sial.com www.sigma-aldrich.com

Description

Lot	**LRAC2138**
Expiration Date	February 2022
Manufacturing Date	March 2019
Storage Conditions	Refrigerate
Solvent/Matrix	Dichloromethane/Benzene 80:20

Column: SPB-5, 30 m x 0.53 mm x 1.5 µm df
80°C (2 min) to 250°C at 10°C/min
Detector: FID, 300°C
Injection Volume: 1 µL

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. 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%**

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 preformed 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.

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).**

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.

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	March 25, 2019
Version	0-3252019

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

Certificate of Composition

ANALYTICAL STANDARD

12 Comp. at Varied Concentrations in Dichloromethane

Product ID 22523051
Lot **LRAC8251**
Expiration Date October 2022
Storage Conditions Refrigerate
Solvent/Matrix Dichloromethane

I010140

Analyte	*Assigned Value* [1]	*Units*	*Raw Material Purity,%*	*Raw Material Lot*	*CAS*
3,3'-DICHLOROBENZIDINE	800 ± 24.0	µg/mL	99.9	LC27068	91-94-1
2,4-DINITROTOLUENE	798 ± 23.9	µg/mL	98.9	12316HF	121-14-2
2,6-DINITROTOLUENE	800 ± 24.0	µg/mL	99.9	LB79891	606-20-2
HEXACHLOROCYCLOPENTADIENE	804 ± 24.1	µg/mL	96.0	LB95525	77-47-4
N-NITROSODIMETHYLAMINE	804 ± 24.1	µg/mL	99.5	9815100	62-75-9
PERYLENE	201 ± 6.04	µg/mL	99.6	04101PG	198-55-0
ANILINE	804 ± 24.1	µg/mL	100.0	10126MG	62-53-3
4-CHLOROANILINE	800 ± 24.0	µg/mL	100.0	MKBZ6909V	106-47-8
2-NITROANILINE	801 ± 24.0	µg/mL	99.9	LC05068	88-74-4
3-NITROANILINE	799 ± 24.0	µg/mL	99.9	LC09264	99-09-2
4-NITROANILINE	800 ± 24.0	µg/mL	99.9	LC11400	100-01-6
PYRIDINE (LOW WATER)	816 ± 24.5	µg/mL	100.0	SHBJ4964	110-86-1

Additional Information

1 Assigned value - the gravimetrically prepared value. Uncertainty is based on gravimetric preparation.

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 preformed gravimetrically.

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.

Robert O'Brien - Program Manager

Mark Pooler - QA Supervisor

Certification Date October 12, 2020
Version -10122020

MilliporeSigma
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-3010
www.sigma-aldrich.com

Certificate of Composition

ACID STOCK

ANALYTICAL STANDARD

Product ID 22523046
Lot **LRAC8250**
Expiration Date October 2022
Storage Conditions Refrigerate
Solvent/Matrix Dichloromethane

I 010141

Analyte	*Assigned Value* [1]	*Units*	*Raw Material Purity,%*	*Raw Material Lot*	*CAS*
2,4-DIMETHYLPHENOL	800 ± 24.0	µg/mL	99.2	05421CO	105-67-9
2,4-DICHLOROPHENOL	804 ± 24.1	µg/mL	99.5	03221TN	120-83-2
2,4,5-TRICHLOROPHENOL	800 ± 24.0	µg/mL	99.9	JS00008	95-95-4
2,4-DINITROPHENOL	1,800 ± 54.0	µg/mL	75.9	MKBP5833V	51-28-5
2,4,6-TRICHLOROPHENOL	801 ± 24.0	µg/mL	99.5	04212PS	88-06-2
4-CHLORO-3-METHYLPHENOL	800 ± 24.0	µg/mL	100.0	BCCB3243	59-50-7
4-NITROPHENOL	799 ± 24.0	µg/mL	99.3	P500150	100-02-7
2-METHYL-4,6-DINITROPHENOL	1,800 ± 54.0	µg/mL	99.9	LB99844	534-52-1
PENTACHLOROPHENOL	801 ± 24.0	µg/mL	97.9	MKCD2150	87-86-5
BENZOIC ACID	1,800 ± 54.0	µg/mL	98.8	442-137B	65-85-0

Additional Information

1 Assigned value - the gravimetrically prepared value. Uncertainty is based on gravimetric preparation.

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 preformed gravimetrically.

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.

Robert O'Brien - Program Manager

Mark Pooler - QA Supervisor

Certification Date October 12, 2020
Version -10122020

MilliporeSigma
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-3010
www.sigma-aldrich.com

RESTEK® CERTIFIED REFERENCE MATERIAL

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Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ilac-MRA

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0167617

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

J002272
CLP 04.1 BNA SURR MIX
Solvent / Lot: methylene chloride
Prep: 3/1/2021 by JZ
Exp: 2/2/2024
Location:

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBF3761V) **Purity** 99%	1,506.0 µg/mL	+/- 8.9452 µg/mL +/- 43.9882 µg/mL +/- 53.3632 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31658) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot M-2097) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 29.3839 µg/mL +/- 35.6463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940B) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00019169) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot S55013V) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

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.:** A0160979

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol		1,511.0 µg/mL	+/- 8.9749	µg/mL	Gravimetric
	CAS # 367-12-4	(Lot STBF3761V)		+/- 44.1342	µg/mL	Unstressed
	Purity 99%			+/- 53.5403	µg/mL	Stressed
2	Phenol-d6		1,512.0 µg/mL	+/- 8.9808	µg/mL	Gravimetric
	CAS # 13127-88-3	(Lot PR-31658)		+/- 44.1635	µg/mL	Unstressed
	Purity 99%			+/- 53.5758	µg/mL	Stressed
3	2-Chlorophenol-d4		1,501.6 µg/mL	+/- 8.9188	µg/mL	Gravimetric
	CAS # 93951-73-6	(Lot PR-29567)		+/- 43.8585	µg/mL	Unstressed
	Purity 97%			+/- 53.2058	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4		1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 2199-69-1	(Lot M-2097)		+/- 29.2963	µg/mL	Unstressed
	Purity 99%			+/- 35.5400	µg/mL	Stressed
5	Nitrobenzene-d5		1,004.0 µg/mL	+/- 5.9635	µg/mL	Gravimetric
	CAS # 4165-60-0	(Lot PR-29940B)		+/- 29.3255	µg/mL	Unstressed
	Purity 99%			+/- 35.5754	µg/mL	Stressed
6	2-Fluorobiphenyl		1,003.0 µg/mL	+/- 5.9575	µg/mL	Gravimetric
	CAS # 321-60-8	(Lot Q165-67)		+/- 29.2963	µg/mL	Unstressed
	Purity 99%			+/- 35.5400	µg/mL	Stressed
7	2,4,6-Tribromophenol		1,513.0 µg/mL	+/- 8.9868	µg/mL	Gravimetric
	CAS # 118-79-6	(Lot MKCJ7664)		+/- 44.1927	µg/mL	Unstressed
	Purity 99%			+/- 53.6112	µg/mL	Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030

Lot No. GS200603005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 6-3-2020

Expiration Date: 6-3-2023

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

5/18/21

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
Azobenzene	103-33-3	2000 µg/mL	98%	1977 µg/mL	± 49 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	1979 µg/mL	± 49 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2017 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	1977 µg/mL	± 49 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2011 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2004 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	1979 µg/mL	± 49 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2012 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	1994 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	1980 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2019 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	1972 µg/mL	± 49 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2014 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2012 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	1984 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	1990 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2035 µg/mL	± 51 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2040 µg/mL	± 51 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99.2%	2040 µg/mL	± 51 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	99%	2038 µg/mL	± 51 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	1999 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	1987 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	99.5%	1975 µg/mL	± 49 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2040 µg/mL	± 51 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	1985 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	1984 µg/mL	± 50 µg/mL
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL

J005222
EPA 625 B/N MIX 1
Solvent / Lot: METHYLENE CHLORIDE
Prep: 5/18/2021 by JZ
Exp: 6/3/2023
Location:

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Report of Certification

Catalog Number: ECS-A-030 **Lot No.** GS200603005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 6-3-2020

Expiration Date: 6-3-2023

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c=\sqrt{\sum u^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Certificate of Analysis

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Testing Laboratory
Certificate #3222.02

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.:** A0167617

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

J005610
CLP 04.1 BNA SURR MIX
Solvent / Lot: methylene chloride
Prep: 5/26/2021 by JZ
Exp: 9/30/2024
Location:

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

5/26/21

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	1,506.0 µg/mL	+/- 8.9452 µg/mL +/- 43.9882 µg/mL +/- 53.3632 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31658)	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 **Purity** 99%	(Lot PR-30568)	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 **Purity** 99%	(Lot M-2097)	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 29.3839 µg/mL +/- 35.6463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 **Purity** 99%	(Lot PR-29940B)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 **Purity** 99%	(Lot 00019169)	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot S55013V)	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/µECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

phenomenex
...breaking with tradition

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**

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:**	CL10999
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:**	June 19, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 4.575%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 2.420%
4,4'-DDT	50-29-3	1000	± 2.772%
Pentachlorophenol	87-86-5	1000	± 2.616%

J006111
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL10999
Prep: 6/9/2021 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova
Certified Reference Materials

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.

ilac-MRA
ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106/13_us

Certificate of Analysis

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breaking with tradition

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] 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 Guide 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] 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 Guide 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC Guide 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 Guide 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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Reference Material Producer
Certificate No. 2427.02

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Certified Reference Materials

Manufactured by Phenova, Inc.
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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.:	AL0-101244	**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 L Gill

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%

J006115
Benzidines std @2000ug/ml
Solvent / Lot: CL16062
Prep: 6/9/2021 by VS
Exp: 11/30/2030
Location: GC

IL6491018_us

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Reference Material Producer
Certicate No. 2427.02

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Certicate No. 2427.03

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] 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 98[5] 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/IEC17025 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)

Agilent

Certificate of Analysis

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)

J006136
SVOA PAH STD 2000ug/ml
Solvent / Lot: 0006540449
Prep: 6/9/2021 by VS
Exp: 6/30/2023
Location: Fridge 19

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

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/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Composition

ACID STOCK

ANALYTICAL STANDARD

Product ID 22523046
Lot LRAC8250
Expiration Date October 2022
Storage Conditions Refrigerate
Solvent/Matrix Dichloromethane

J006718
SVOA-ACID STOCK 800/1800ug/ml
Solvent / Lot: DCM
Prep: 6/26/2021 by VS
Exp: 12/23/2021
Location:

Analyte	*Assigned Value* [1]	*Units*	*Raw Material Purity,%*	*Raw Material Lot*	*CAS*
2,4-DIMETHYLPHENOL	800 ± 24.0	µg/mL	99.2	05421CO	105-67-9
2,4-DICHLOROPHENOL	804 ± 24.1	µg/mL	99.5	03221TN	120-83-2
2,4,5-TRICHLOROPHENOL	800 ± 24.0	µg/mL	99.9	JS00008	95-95-4
2,4-DINITROPHENOL	1,800 ± 54.0	µg/mL	75.9	MKBP5833V	51-28-5
2,4,6-TRICHLOROPHENOL	801 ± 24.0	µg/mL	99.5	04212PS	88-06-2
4-CHLORO-3-METHYLPHENOL	800 ± 24.0	µg/mL	100.0	BCCB3243	59-50-7
4-NITROPHENOL	799 ± 24.0	µg/mL	99.3	P500150	100-02-7
2-METHYL-4,6-DINITROPHENOL	1,800 ± 54.0	µg/mL	99.9	LB99844	534-52-1
PENTACHLOROPHENOL	801 ± 24.0	µg/mL	97.9	MKCD2150	87-86-5
BENZOIC ACID	1,800 ± 54.0	µg/mL	98.8	442-137B	65-85-0

Additional Information

1 Assigned value - the gravimetrically prepared value. Uncertainty is based on gravimetric preparation.

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 preformed gravimetrically.

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.

Robert O'Brien - Program Manager

Mark Pooler - QA Supervisor

Certification Date October 12, 2020
Version -10122020

MilliporeSigma
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-3010
www.sigma-aldrich.com

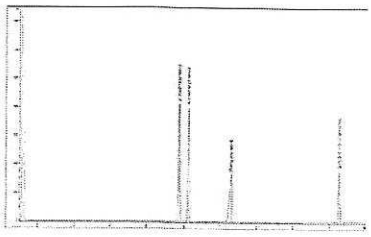
Supelco

www.sigmaaldrich.com

Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

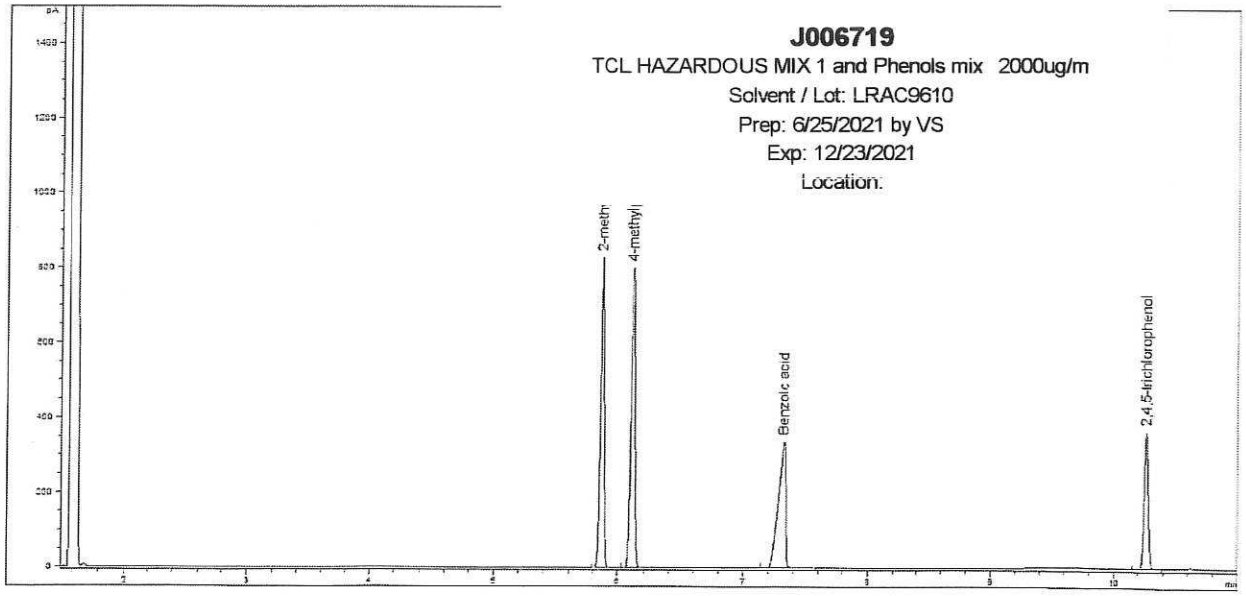
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most 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

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

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

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

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:

$$u_{CRM} = \sqrt{u^2_{char} + u^2_{homogeneity} + u^2_{stability}}$$

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

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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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
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL16916
Certification Date: June 25, 2021
Expiration Date: September 30, 2022

J007896
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL16916
Prep: 7/31/2021 by VS
Exp: 9/30/2022
Location: FREEZER 44

Andrea L Gill

Andrea Gill, 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	± 0.224%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.258%
Benzo(b)fluoranthene	205-99-2	1000	± 0.144%
Benzo(k)fluoranthene	207-08-9	1000	± 0.146%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.146%
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	± 0.527%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.486%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.148%
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	± 0.147%

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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
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL16916
Certification Date: June 25, 2021
Expiration Date: September 30, 2022

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	± 0.280%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.519%
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	± 0.479%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.519%
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	± 0.226%

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Reference Material Producer
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Chemical Testing Laboratory
Certicate 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.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL16916
Certification Date: June 25, 2021
Expiration Date: September 30, 2022

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	± 0.479%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.146%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.149%
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	± 0.279%
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%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL16916
Certification Date: June 25, 2021
Expiration Date: September 30, 2022

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	± 0.152%
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-Chloroiospropyl) 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.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] 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 98[5] 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)

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.:	AL0-101443	**Lot Number:**	CL16571
Description:	Aniline	**Certification Date:**	March 23, 2021
Storage:	4 °C	**Expiration Date:**	March 31, 2029
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.561%

J007897
Anline-1000ug/mL
Solvent / Lot: CL16571
Prep: 7/31/2021 by VS
Exp: 3/31/2029
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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4

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 L Gill

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
Solvent / Lot: CL16062
Prep: 8/12/2021 by VS
Exp: 11/30/2030
Location: GC

ACCREDITED
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Certified Reference Material

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Catalog No.:	AL0-101246	**Lot Number:**	CL16692
Description:	Benzoic Acid	**Certification Date:**	April 23, 2021
Storage:	4 °C	**Expiration Date:**	April 30, 2031
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 3.403%

J008311
Benzoic Acid @2000ug/ml
Solvent / Lot: CL16692
Prep: 8/12/2021 by VS
Exp: 4/30/2031
Location: GC

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Analytical Resources, Incorporated
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW20-IT384

Laboratory:	Analytical Resources, Inc.				
Client:	Anchor QEA, LLC				
Project:	Lower Duwamish AOC4				
Matrix:	Sediment	Laboratory ID:	21H0263-01 B	SDG:	21H0263
Sampled:	06/23/20 06:06	Prepared:	08/26/21 11:42	File ID:	CubeData_08312021@1034-259
% Solids:	76.84	Preparation:	PSEP 1986 (modified)	Analyzed:	08/29/21 11:33
Batch:	BJH0674	Sequence:	SJH0331	Initial/Final:	0.5649 g Wet / 0.5649 mL
Instrument:	TOC Cube			Calibration:	EH00065

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.36	1	0.02	0.02	H

Analytical Resources, Incorporated
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Batch:	BJH0674 Batch Matrix: Solid	Preparation:	PSEP 1986 (modified)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW20-IT384	21H0263-01	eData_08312021@1034-	08/26/21 11:42	
Blank	BJH0674-BLK1	eData_08312021@1034-	08/26/21 11:42	
LCS	BJH0674-BS1	eData_08312021@1034-	08/26/21 11:42	
LDW20-IT384	BJH0674-DUP1	eData_08312021@1034-	08/26/21 11:42	
LDW20-IT384	BJH0674-DUP2	eData_09062021@0807-	08/26/21 11:42	
MRL Check	BJH0674-MRL1	eData_08312021@1034-	08/26/21 11:42	
LDW20-IT384	BJH0674-MS1	eData_08312021@1034-	08/26/21 11:42	
Reference	BJH0674-SRM1	eData_08312021@1034-	08/26/21 11:42	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Batch: BJH0674
Laboratory ID: BJH0674-BLK1
Prepared: 08/26/21 11:42
Matrix: Solid
Preparation: PSEP 1986 (modified)
Analyzed: 08/29/21 01:38
Sequence: SJH0331
Calibration: EH00065
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

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Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	08/29/21 03:12
Batch:	BJH0674	Laboratory ID:	BJH0674-BS1
Preparation:	PSEP 1986 (modified)	Sequence Name:	LCS
Initial/Final:	0.0207 g / 0.0207 mL		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	45.5		102	80 - 120

* Indicates values outside of QC limits

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Analytical Chemists and Consultants

LDW20-IT384

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Laboratory ID: BJH0674-DUP1
Batch: BJH0674
Lab Source ID: 21H0263-01
Preparation: PSEP 1986 (modified)
Initial/Final: 0.5305 g / 0.5305 mL
Source Sample Name: LDW20-IT384
% Solids: 76.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.36	0.71	65.0	*

*: 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

Analytical Resources, Incorporated
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LDW20-IT384

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Laboratory ID: BJH0674-DUP2
Batch: BJH0674
Lab Source ID: 21H0263-01
Preparation: PSEP 1986 (modified)
Initial/Final: 0.5046 g / 0.5046 mL
Source Sample Name: LDW20-IT384
% Solids: 76.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.36	0.27	28.3	*

*: 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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW20-IT384

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Matrix:	Solid	Analyzed:	08/29/21 12:36
Batch:	BJH0674	Laboratory ID:	BJH0674-MS1
Preparation:	PSEP 1986 (modified)	Sequence Name:	Matrix Spike
Initial/Final:	0.5454 g / 0.5454 mL	Source Sample:	LDW20-IT384

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.12	0.36	H	1.48	H	99.8	75 - 125

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0323	Instrument:	TOC Cube
		Calibration:	EH00065

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SJH0323-CAL1	peData_08252021@1209-(	NA	08/24/21 19:03
Cal Standard	SJH0323-CAL2	peData_08252021@1209-(	NA	08/24/21 19:34
Cal Standard	SJH0323-CAL3	peData_08252021@1209-(	NA	08/24/21 20:06
Cal Standard	SJH0323-CAL4	peData_08252021@1209-(	NA	08/24/21 20:38
Cal Standard	SJH0323-CAL5	peData_08252021@1209-(	NA	08/24/21 21:10
Cal Standard	SJH0323-CAL6	peData_08252021@1209-(	NA	08/24/21 21:41
Cal Standard	SJH0323-CAL7	peData_08252021@1209-(	NA	08/24/21 22:13
Cal Standard	SJH0323-CAL8	peData_08252021@1209-(	NA	08/24/21 22:44
Cal Standard	SJH0323-CAL9	peData_08252021@1209-(	NA	08/24/21 23:16
Cal Standard	SJH0323-CALA	peData_08252021@1209-(	NA	08/24/21 23:48
Cal Standard	SJH0323-CALB	peData_08252021@1209-(	NA	08/25/21 00:19
Cal Standard	SJH0323-CALC	peData_08252021@1209-(	NA	08/25/21 00:51
Cal Standard	SJH0323-CALD	peData_08252021@1209-(	NA	08/25/21 01:22
Cal Standard	SJH0323-CALE	peData_08252021@1209-(	NA	08/25/21 01:54
Cal Standard	SJH0323-CALF	peData_08252021@1209-(	NA	08/25/21 02:26
Cal Standard	SJH0323-CALG	peData_08252021@1209-(	NA	08/25/21 02:58
Cal Standard	SJH0323-CALH	peData_08252021@1209-(	NA	08/25/21 03:29
Cal Standard	SJH0323-CALI	peData_08252021@1209-(	NA	08/25/21 04:01
Cal Standard	SJH0323-CALJ	peData_08252021@1209-(	NA	08/25/21 04:33
Initial Cal Check	SJH0323-ICV1	peData_08252021@1209-(	NA	08/25/21 09:19
Initial Cal Blank	SJH0323-ICB1	peData_08252021@1209-(	NA	08/25/21 09:51
Cal Standard	SJH0323-CALK	peData_08252021@1209-(	NA	08/25/21 11:41
Cal Standard	SJH0323-CALL	peData_08252021@1209-(	NA	08/25/21 11:42
Cal Standard	SJH0323-CALM	peData_08252021@1209-(	NA	08/25/21 11:43
Cal Standard	SJH0323-CALN	peData_08252021@1209-(	NA	08/25/21 11:45
Cal Standard	SJH0323-CALO	peData_08252021@1209-(	NA	08/25/21 11:46

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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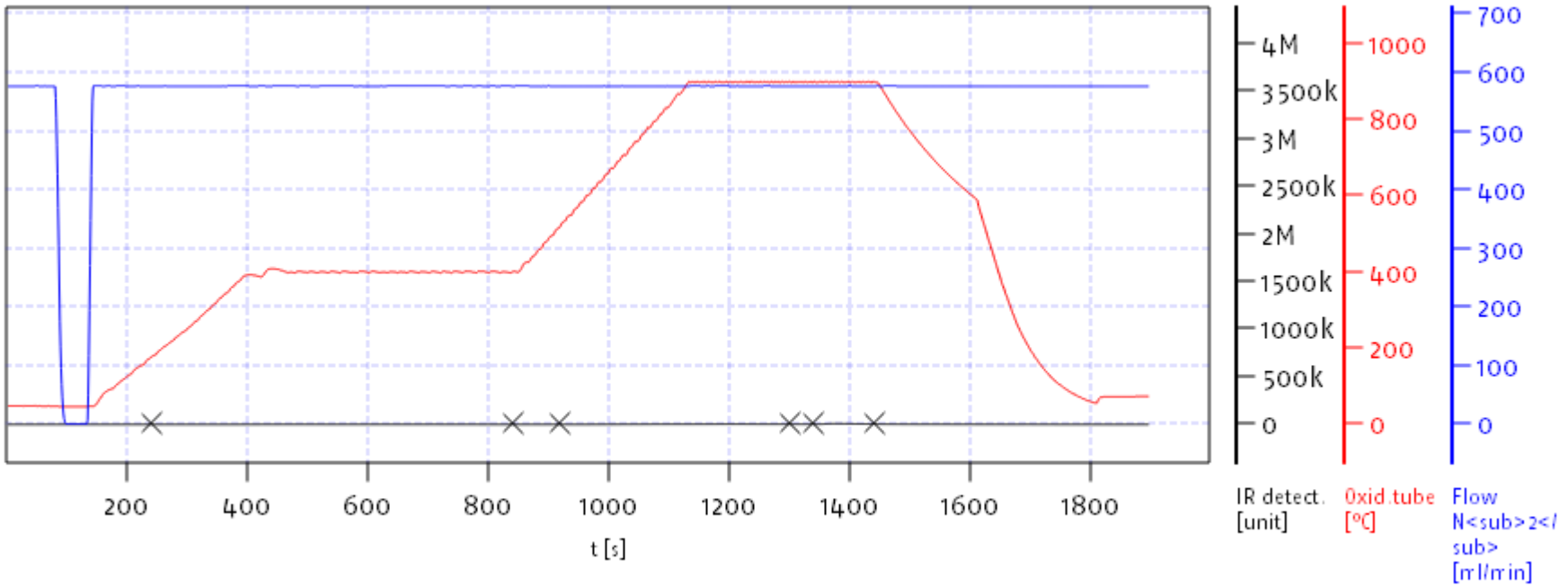
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	9	BLANK	1.00		1.00	CARBON	8/24/2021 6:00 PM	0.000	0.000	0.000	bl	13 861	33 454	21 567	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

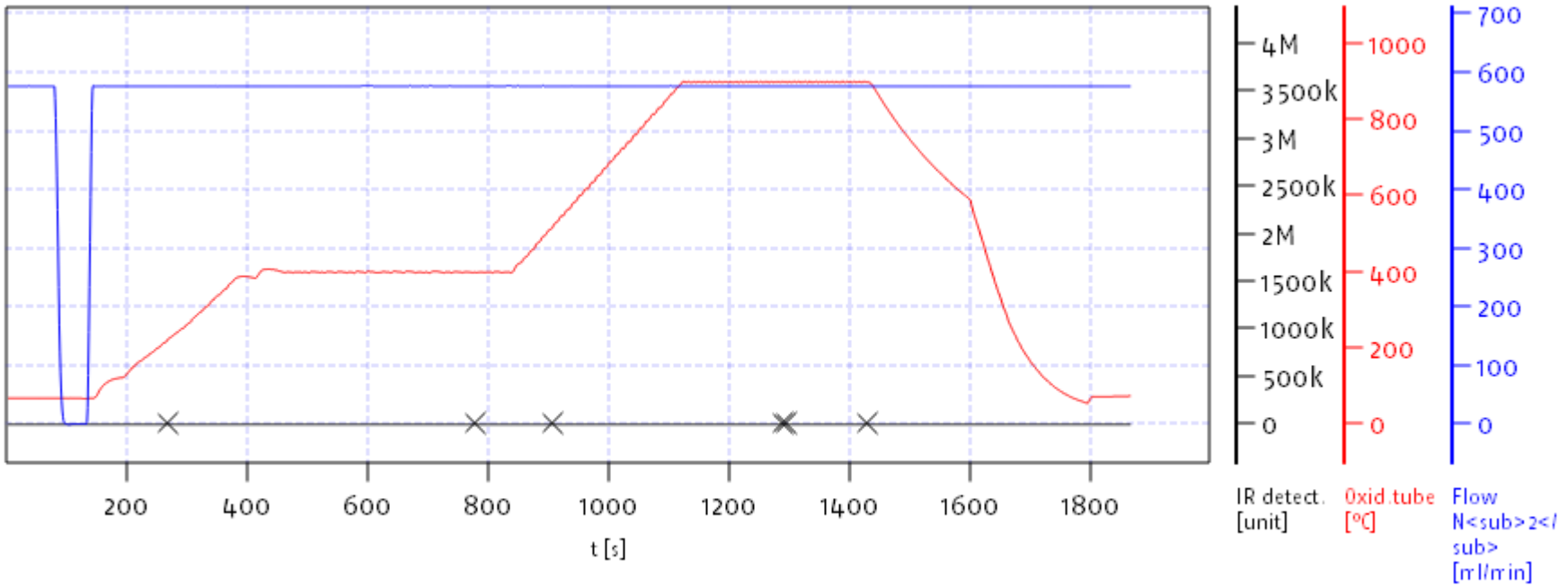
elementar
EXCELLENCE IN ELEMENTS

Document: TOC Calibration EH00065 082421BFb from: 8/25/2021 11:47 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	10	BLANK	1.00		1.00	CARBON	8/24/2021 6:31 PM	0.000	0.000	0.000	bl	1 643	8	245	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

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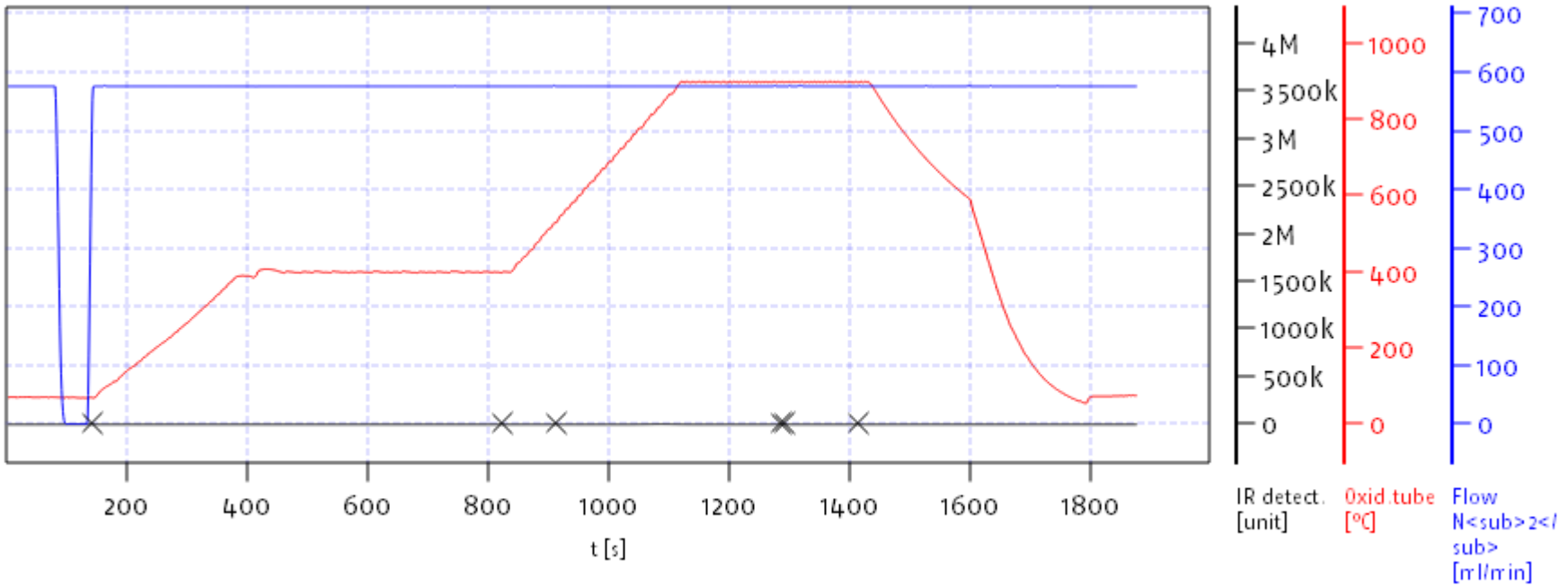
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	11	SEQ-CAL1	200.00	0.0017	1.00	CARBON	8/24/2021 7:03 PM	0.000	0.008	0.008	bl,C1u,C3u,C2u	1 070	6 478	141	1.0000	1.1719



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Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

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Serial No: 0300.181017
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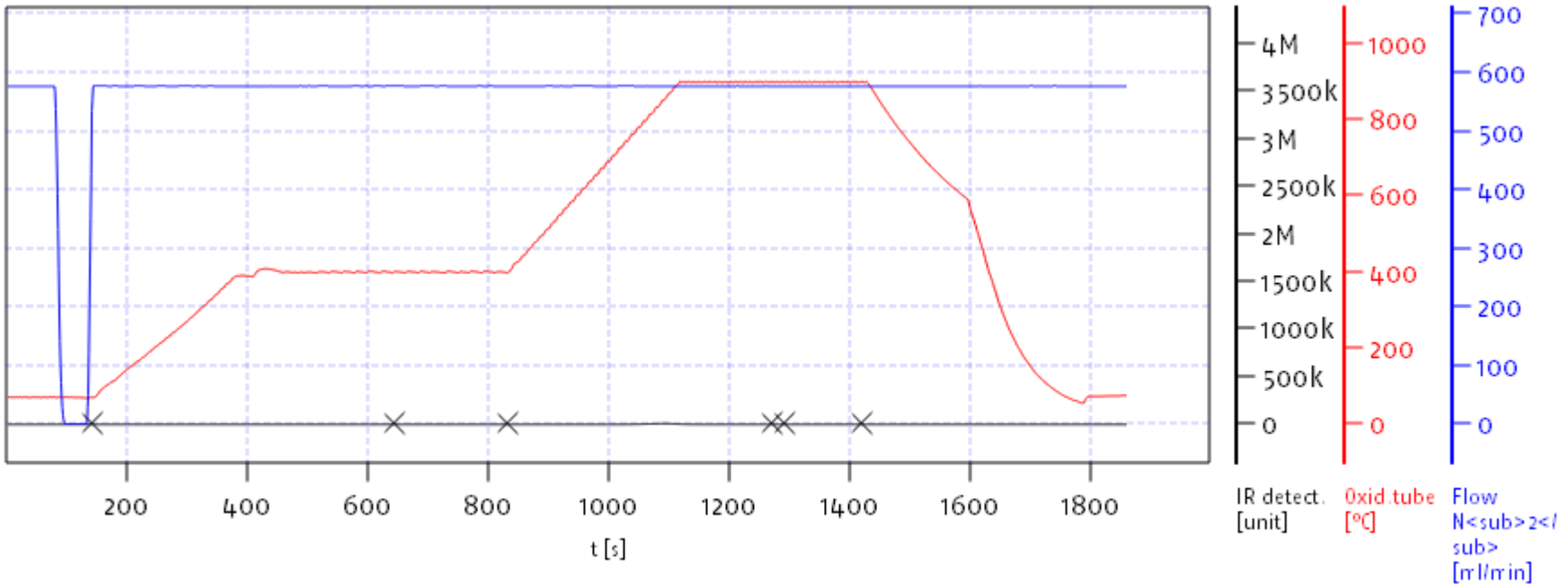
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	12	SEQ-CAL2	200.00	0.0054	1.00	CARBON	8/24/2021 7:34 PM	0.000	0.015	0.015	bl,C1u,C2u	660	18 783	85	1.0000	0.9072



Name:

Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: TOC Calibration EH00065 082421BFb from: 8/25/2021 11:47 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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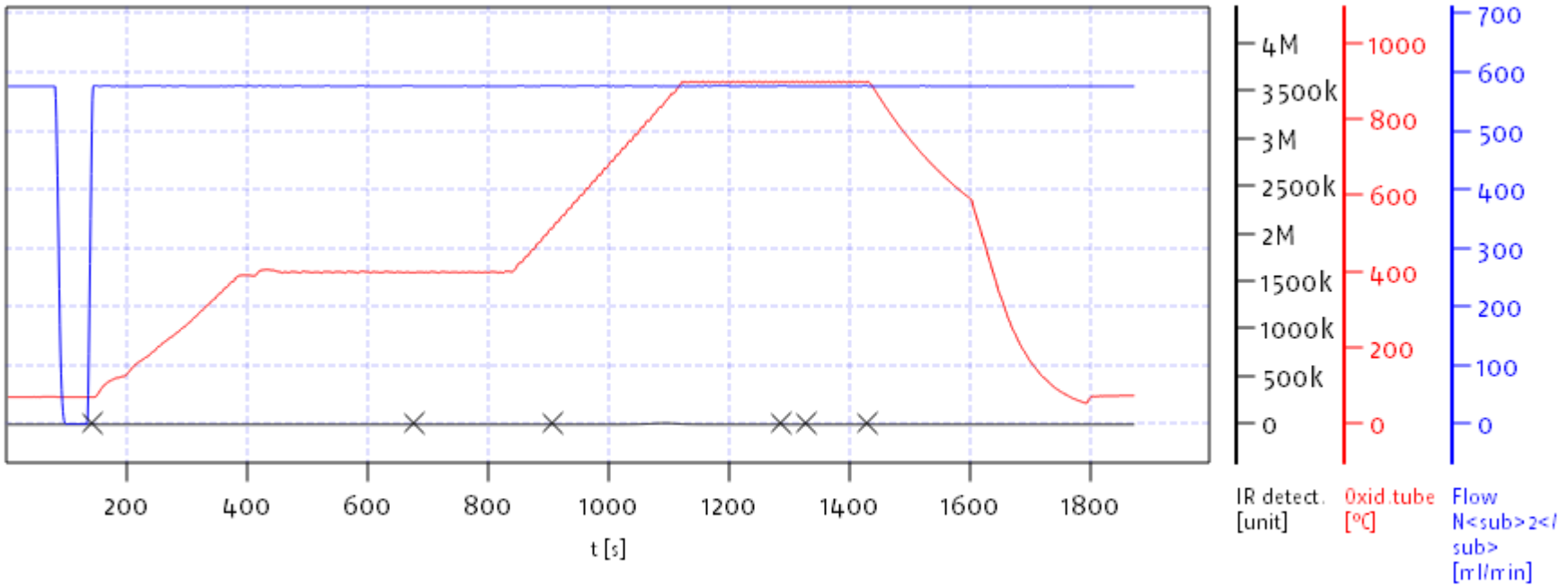
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	13	SEQ-CAL3	200.00	0.0068	1.00	CARBON	8/24/2021 8:06 PM	0.000	0.022	0.022	bl,C1u,C2u	889	24 712	60	1.0000	1.0307



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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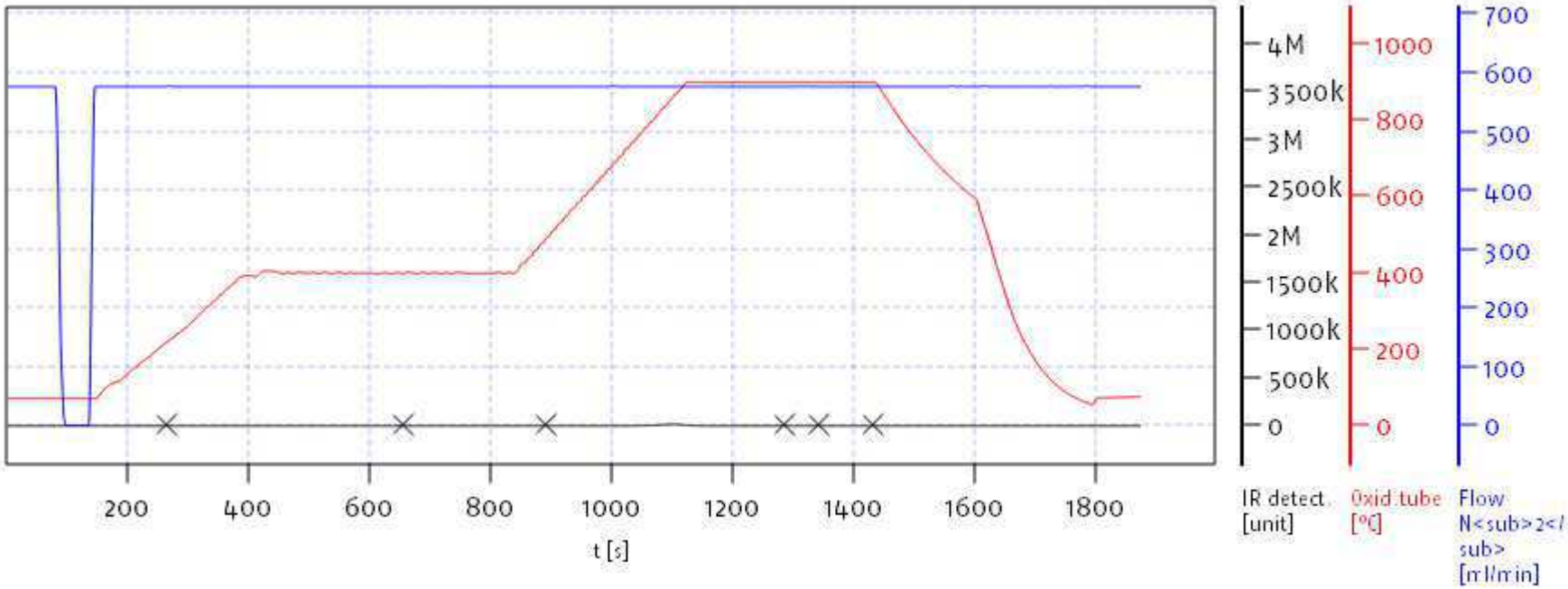
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	14	SEQ-CAL4	200.00	0.0101	1.00	CARBON	8/24/2021 8:38 PM	0.000	0.030	0.030	bl,C1u,C2u	1 503	31 221	84	1.0000	1.1361



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Analyst: BF

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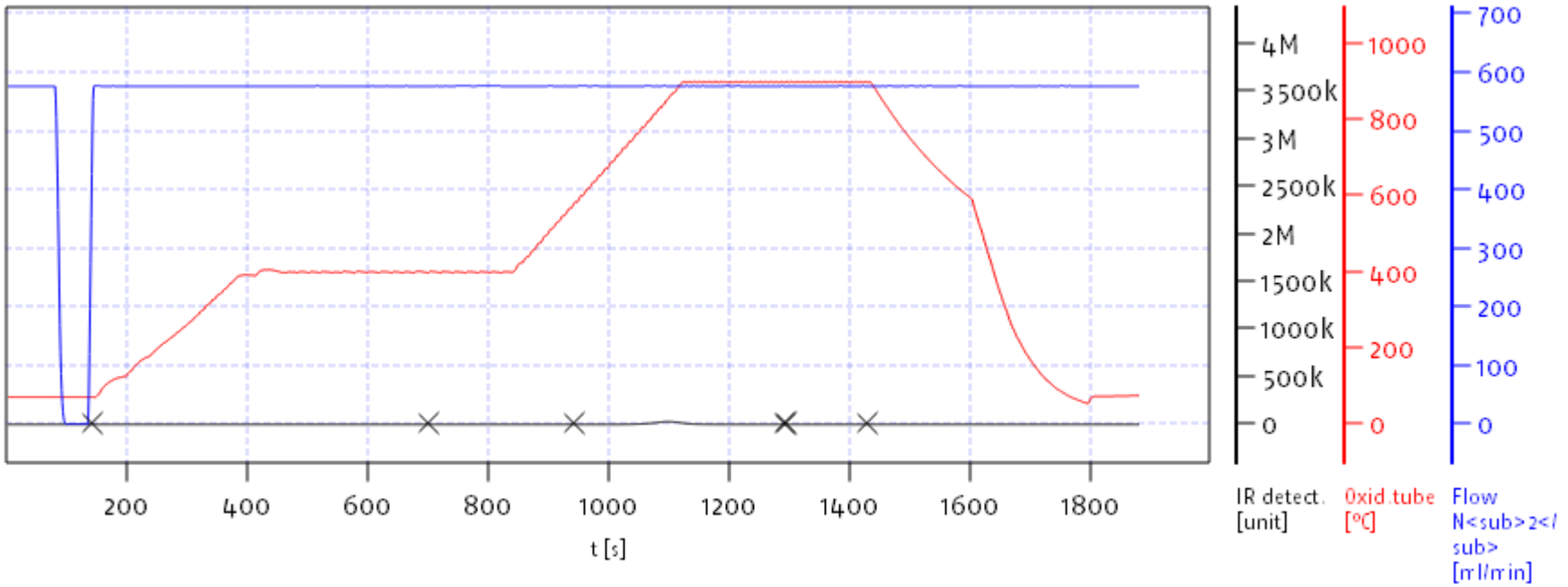
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	15	SEQ-CAL5	200.00	0.0151	1.00	CARBON	8/24/2021 9:10 PM	0.000	0.045	0.045	bl,C1u,C2u	776	61 535	62	1.0000	0.8900



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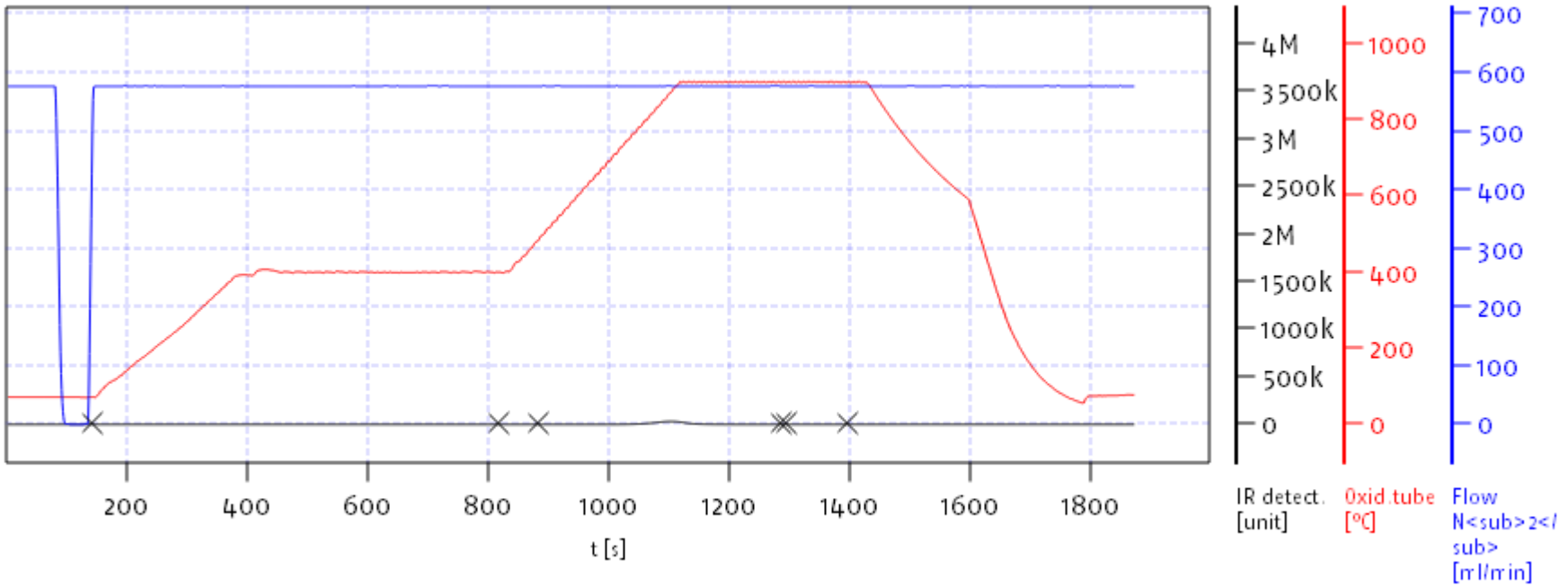
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	16	SEQ-CAL6	200.00	0.0200	1.00	CARBON	8/24/2021 9:41 PM	0.000	0.061	0.061	bl,C1u,C2u	1 086	73 745	55	1.0000	1.0168



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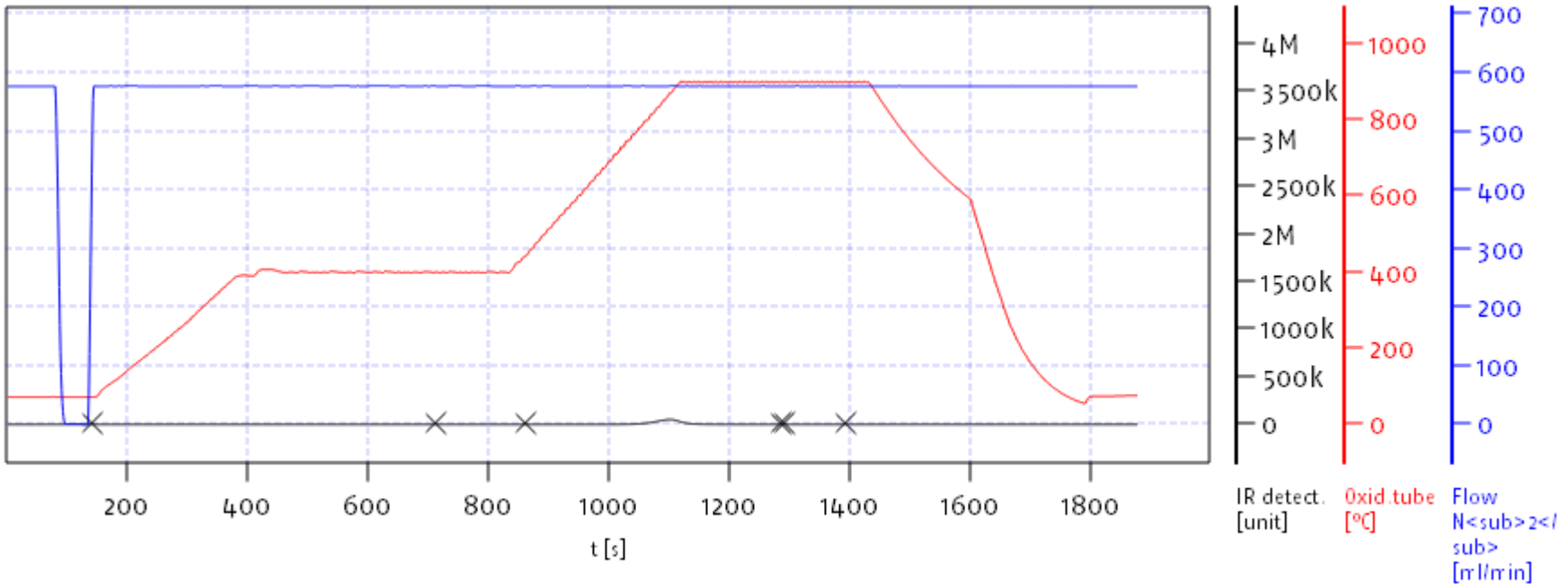
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	17	SEQ-CAL7	200.00	0.0256	1.00	CARBON	8/24/2021 10:13 PM	0.000	0.075	0.075	bl,C1u,C2u	1 149	100 193	99	1.0000	0.9293



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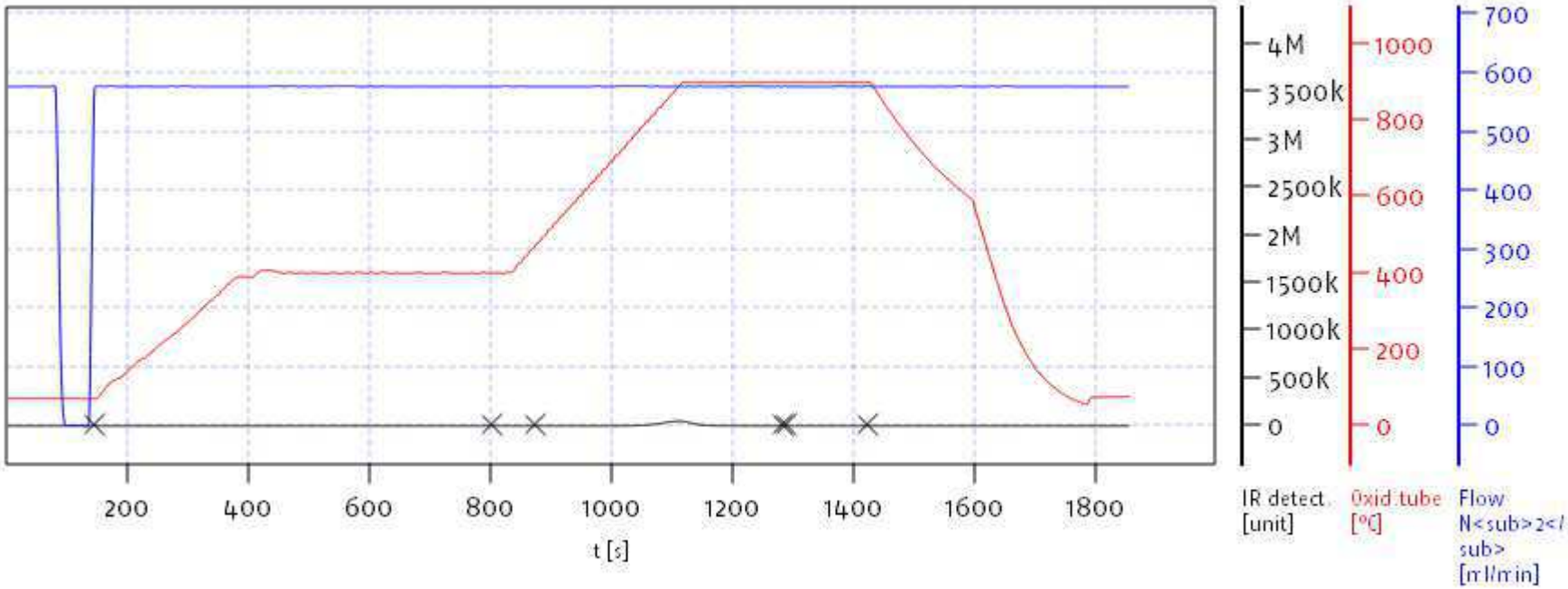
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	18	SEQ-CAL8	200.00	0.0303	1.00	CARBON	8/24/2021 10:44 PM	0.000	0.091	0.091	bl,C1u,C2u	779	118 482	109	1.0000	0.9492



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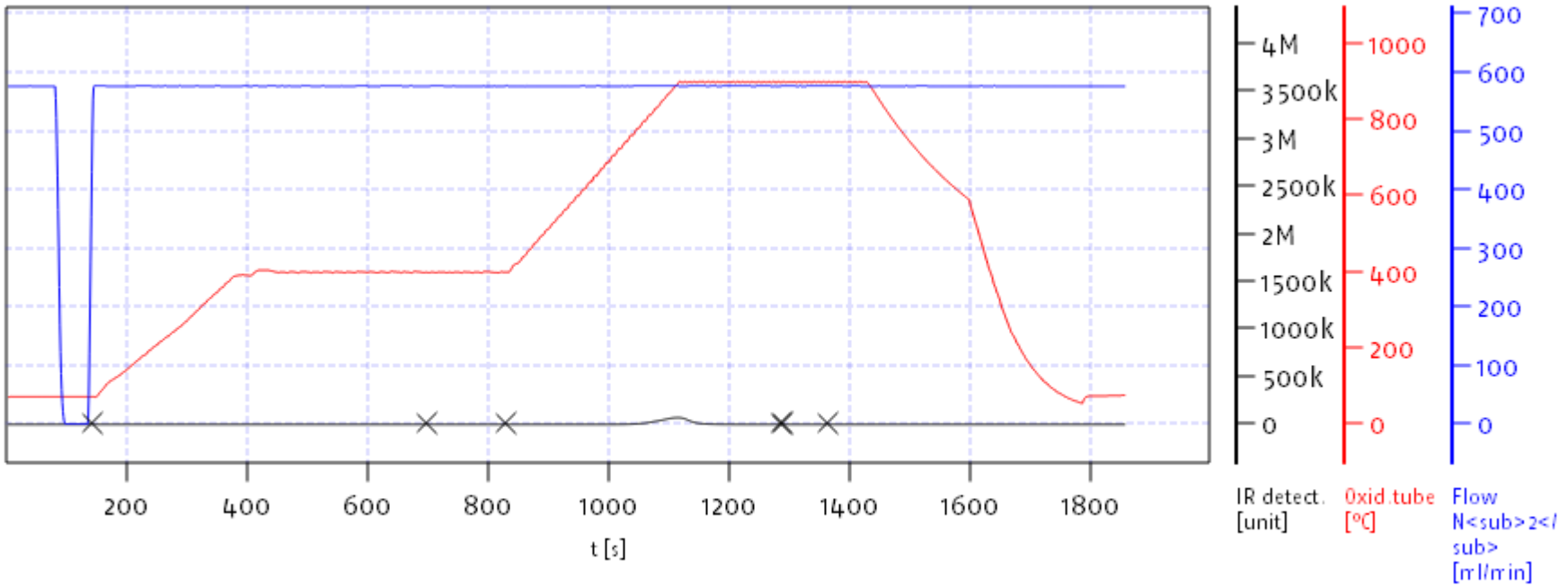
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	19	SEQ-CAL9	200.00	0.0396	1.00	CARBON	8/24/2021 11:16 PM	0.000	0.120	0.120	bl,C1u,C2u	848	163 267	93	1.0000	0.9178



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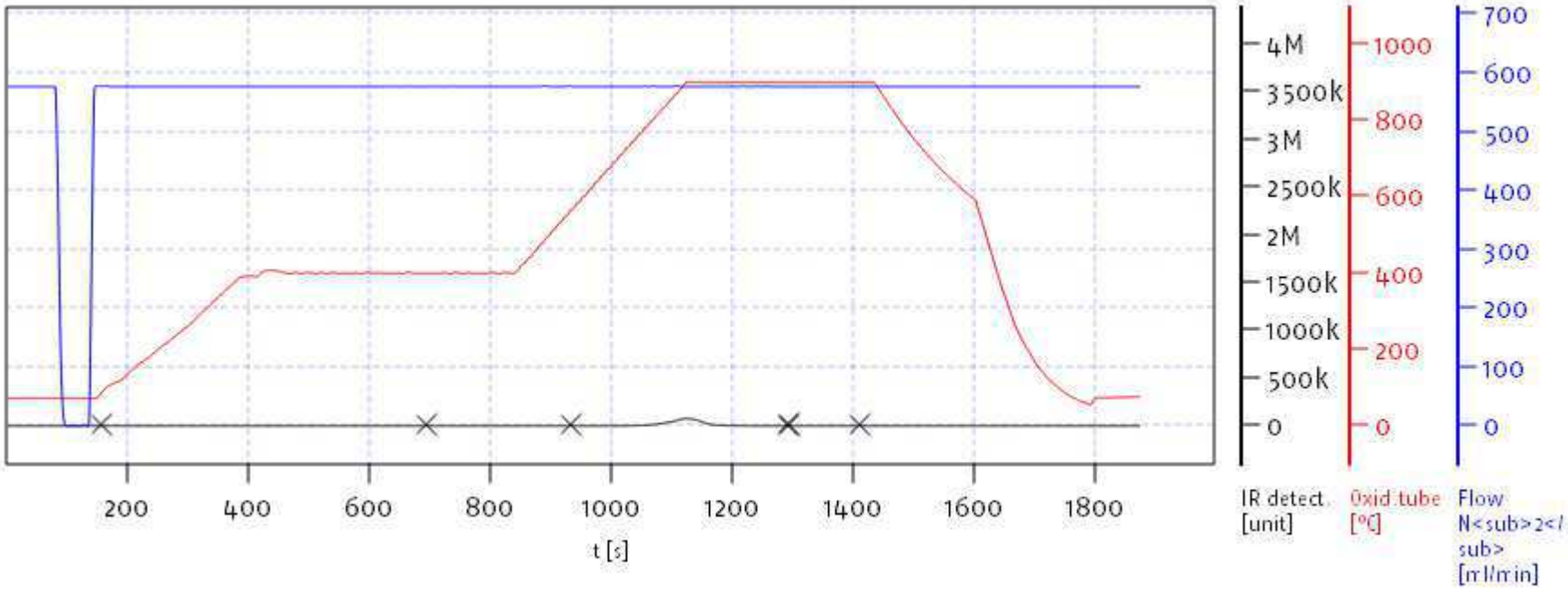
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	20	SEQ-CALA	200.00	0.0498	1.00	CARBON	8/24/2021 11:48 PM	0.000	0.151	0.151	bl,C1u,C2u	1 818	184 410	146	1.0000	1.0237



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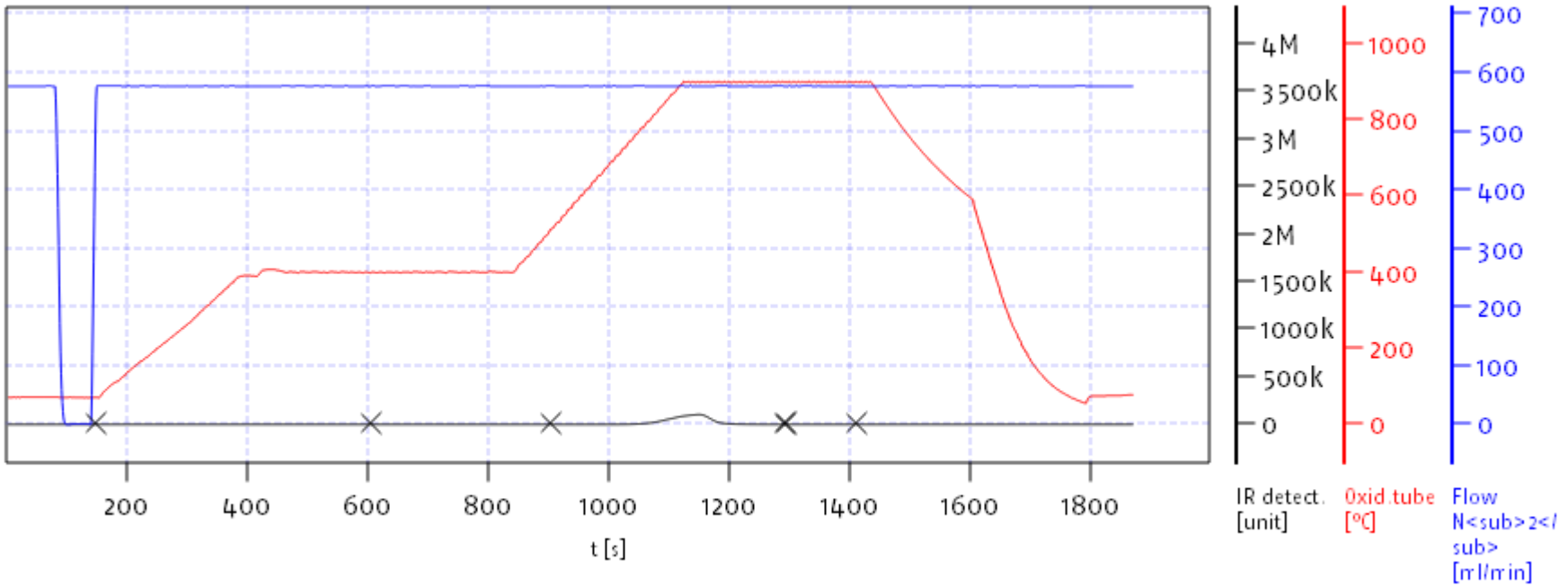
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	21	SEQ-CALB	200.00	0.0042	1.00	CARBON	8/25/2021 12:19 AM	0.000	0.258	0.258	bl,C1u,C2u	972	305 136	284	1.0000	1.0636



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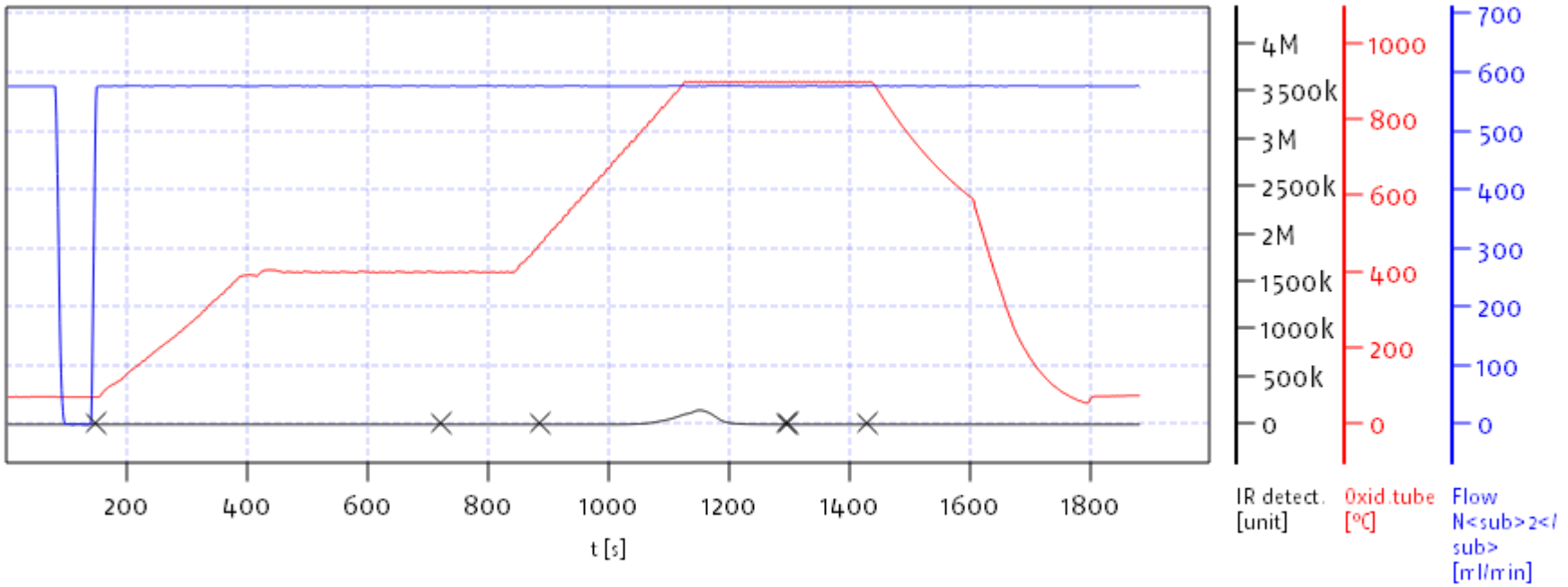
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	22	SEQ-CALC	200.00	0.0056	1.00	CARBON	8/25/2021 12:51 AM	0.000	0.324	0.324	bl,C1u,C2u	925	413 926	393	1.0000	0.9869



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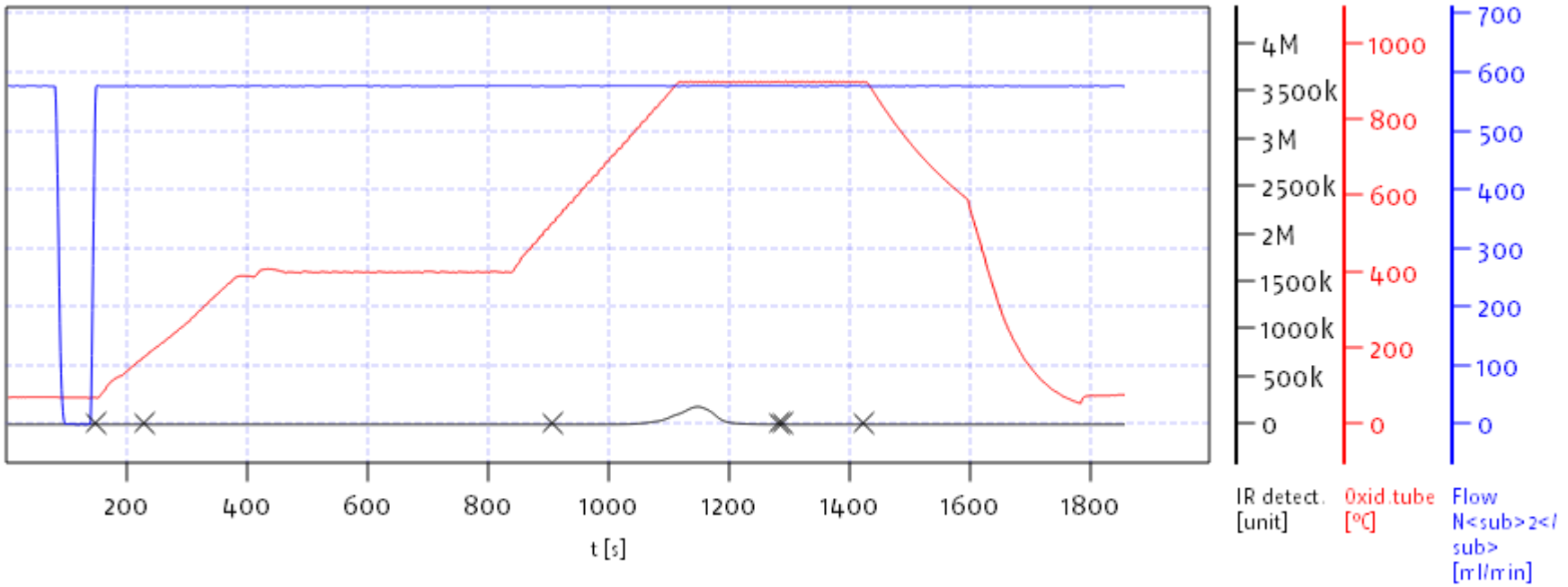
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	23	SEQ-CALD	200.00	0.0069	1.00	CARBON	8/25/2021 1:22 AM	0.000	0.444	0.444	bl,C1u,C2u	172	525 080	677	1.0000	1.0675



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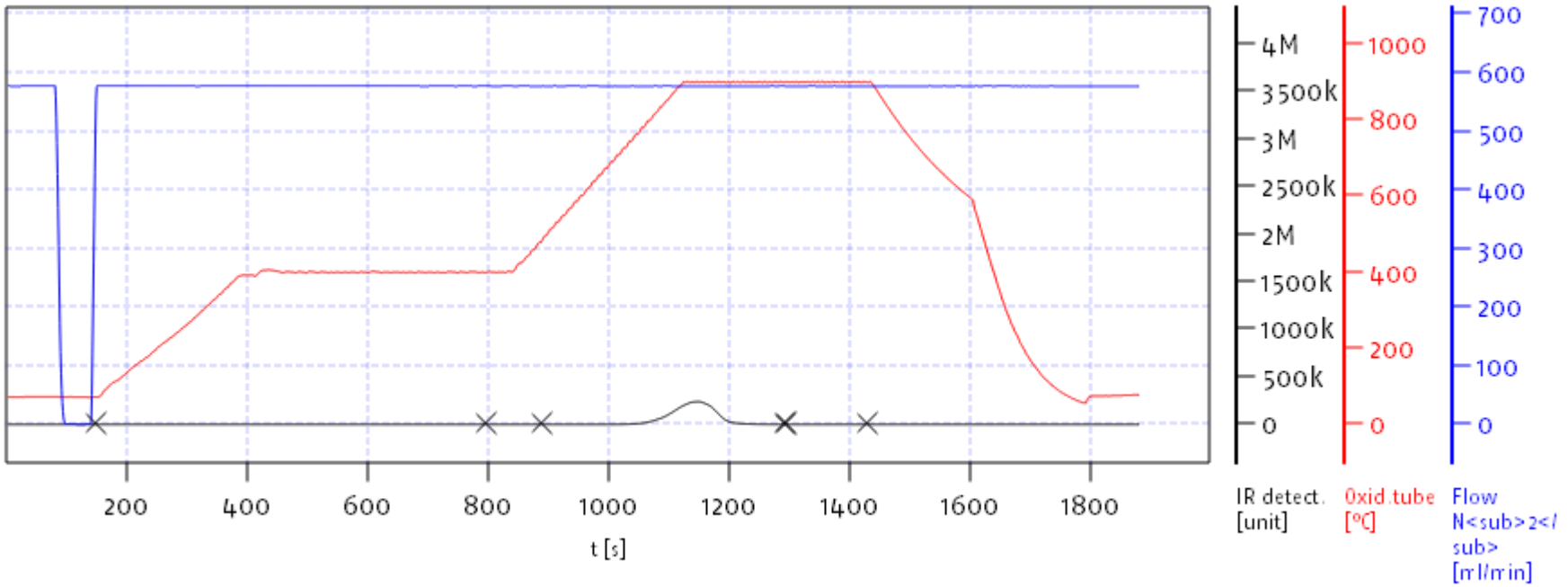
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	24	SEQ-CALE	200.00	0.0097	1.00	CARBON	8/25/2021 1:54 AM	0.000	0.600	0.600	bl,C1u,C2u	989	743 966	687	1.0000	1.0196



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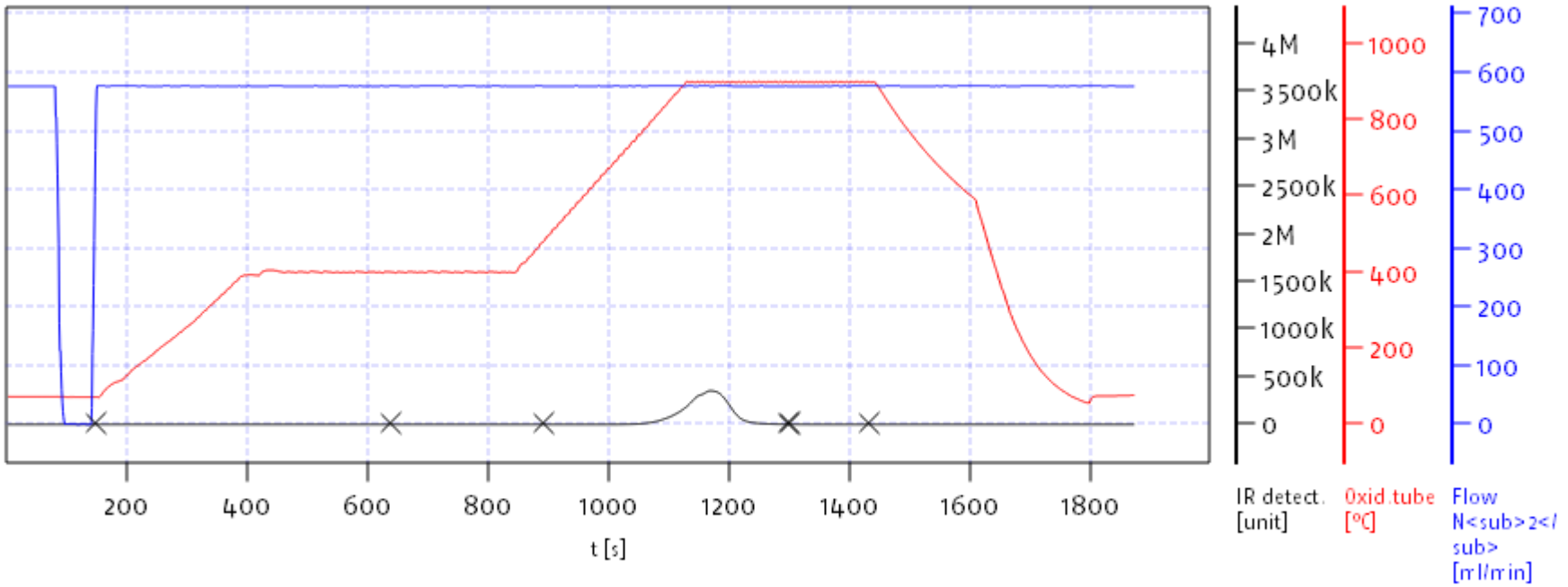
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	25	SEQ-CALF	200.00	0.0147	1.00	CARBON	8/25/2021 2:26 AM	0.000	0.906	0.906	bl,C1u,C2u	925	1 115 840	1 898	1.0000	1.0277



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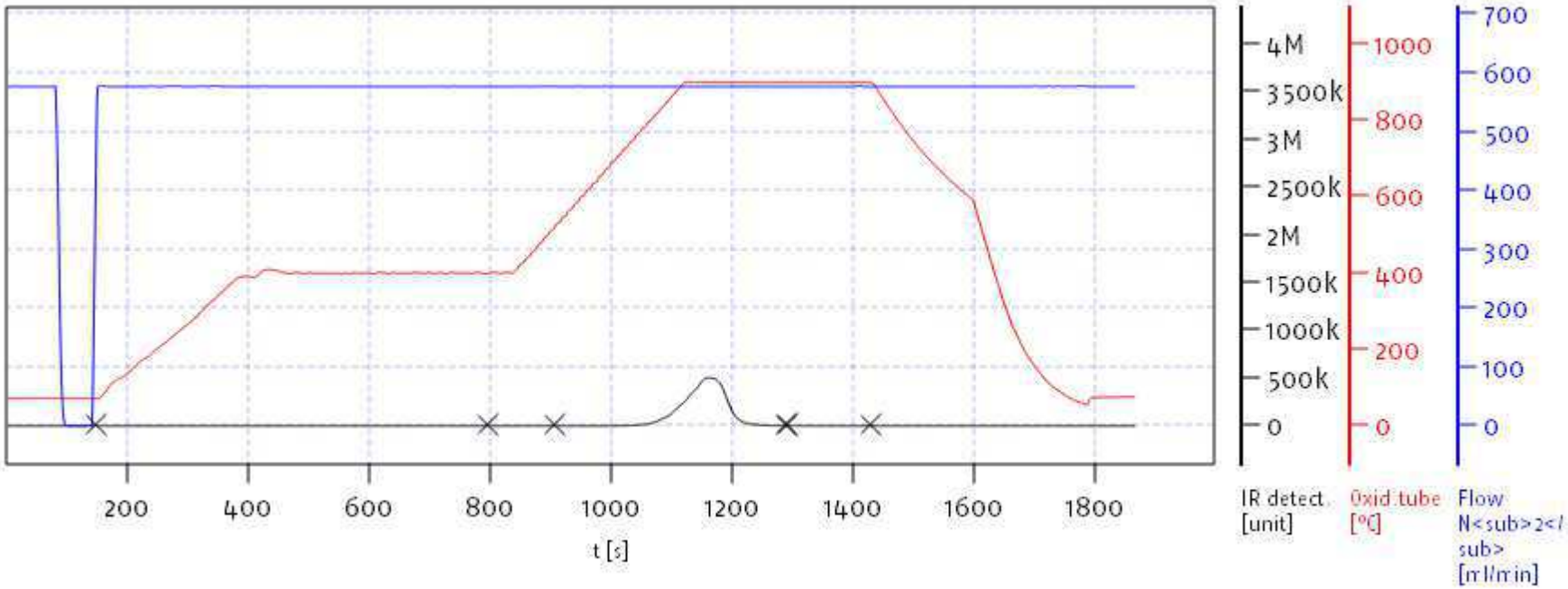
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	26	SEQ-CALG	200.00	0.0199	1.00	CARBON	8/25/2021 2:58 AM	0.000	1.206	1.206	bl,C1u,C2u	1 253	1 509 240	2 258	1.0000	1.0121



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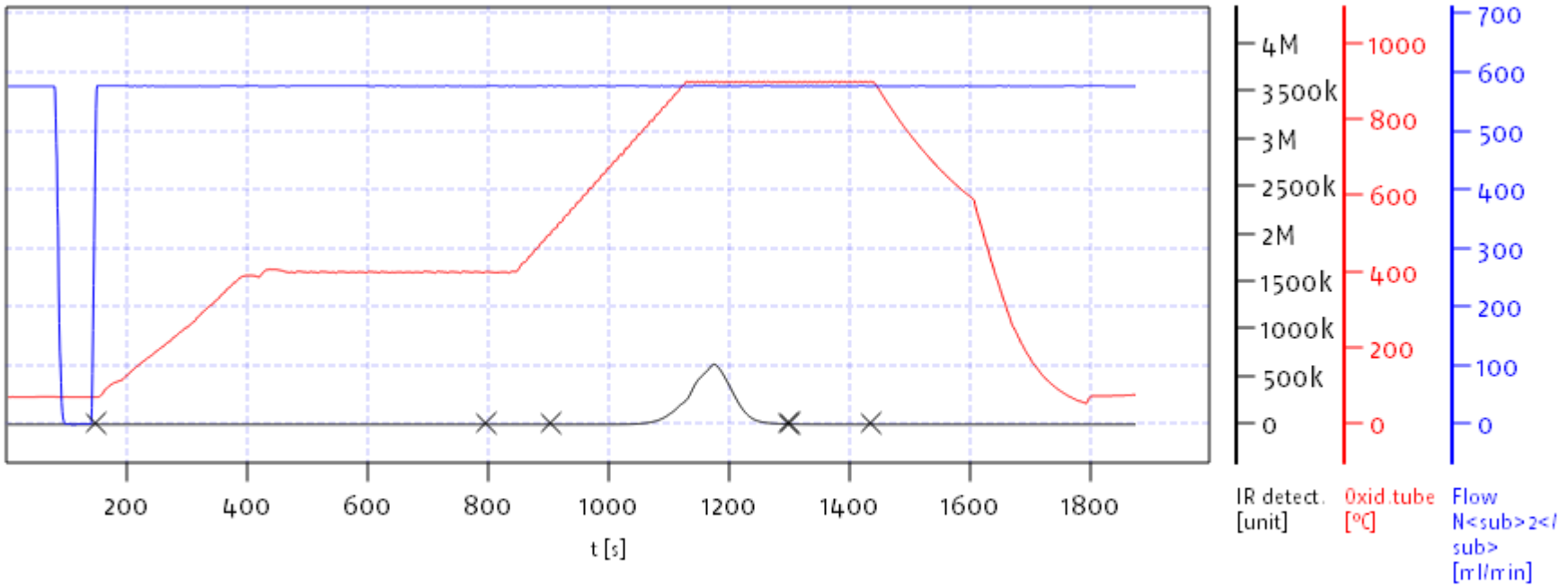
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	27	SEQ-CALH	200.00	0.0253	1.00	CARBON	8/25/2021 3:29 AM	0.000	1.524	1.524	bl,C1u,C2u	1 233	1 930 390	4 311	1.0000	1.0003



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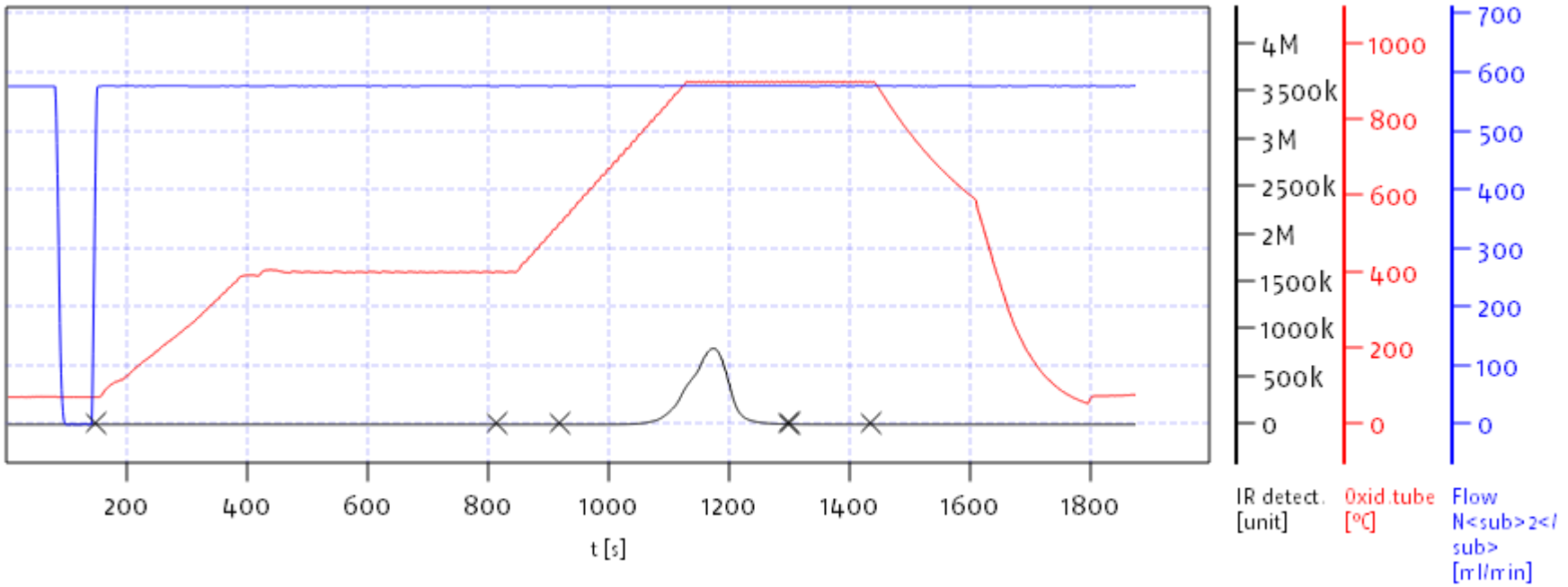
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	28	SEQ-CALI	200.00	0.0302	1.00	CARBON	8/25/2021 4:01 AM	0.000	1.800	1.800	bl,C1u,C2u	1 600	2 286 540	3 907	1.0000	0.9976



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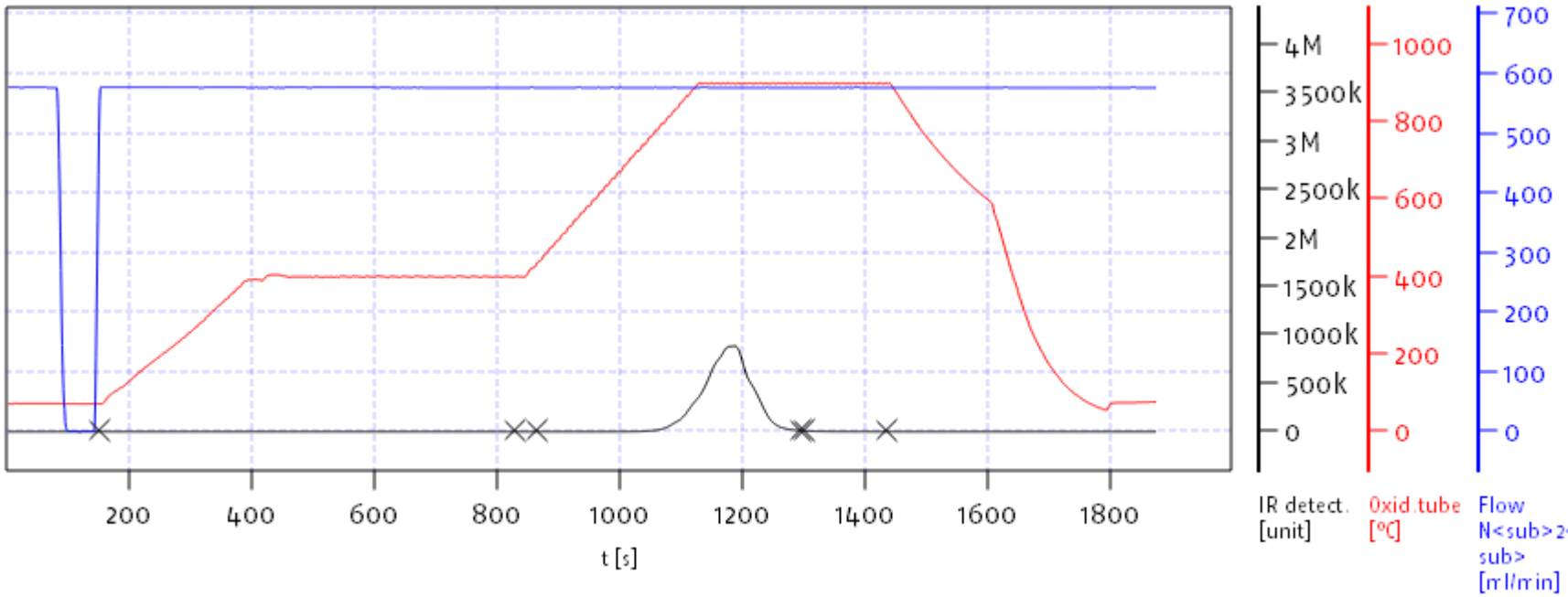
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	29	SEQ-CALJ	200.00	0.0400	1.00	CARBON	8/25/2021 4:33 AM	0.000	2.400	2.400	bl,C1u	1 589	**3 013 270**	**9 826**	1.0000	1.0096



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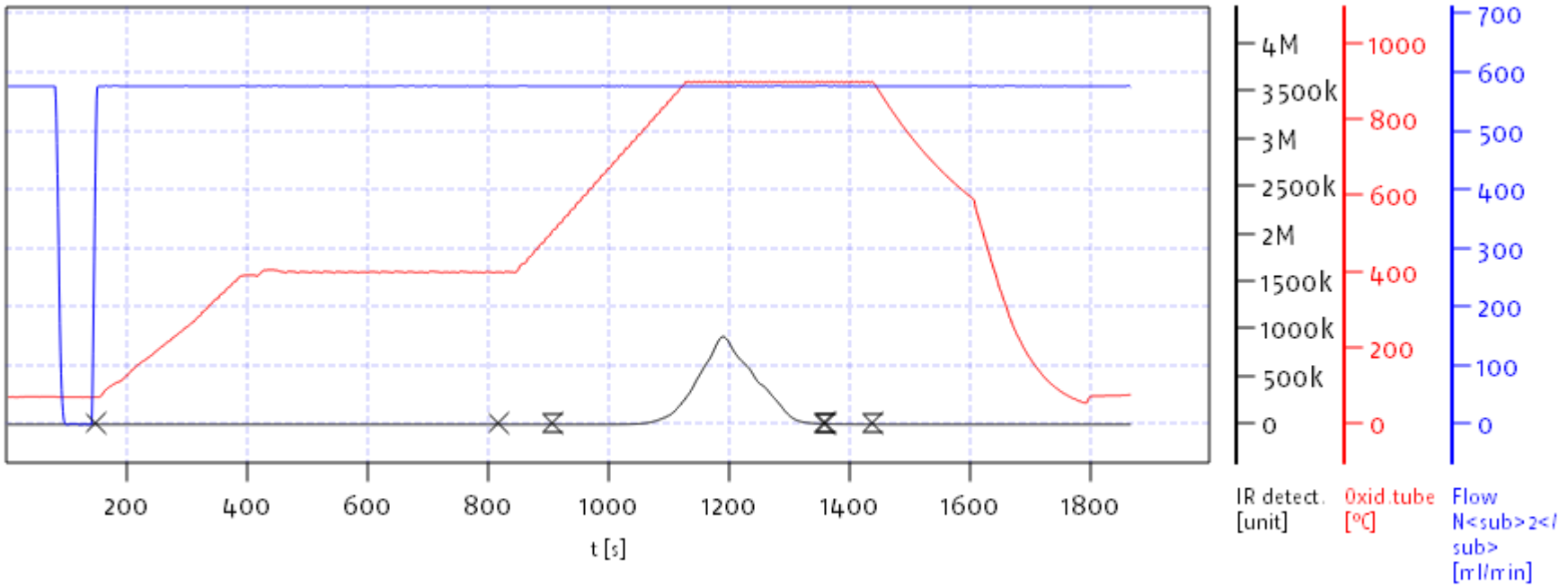
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	30	SEQ-CALK	200.00	0.0498	1.00	CARBON	8/25/2021 11:41 AM	0.000	3.012	3.012	bl,C1u	2 117	**3 411 713**	**0**	1.0000	1.0310



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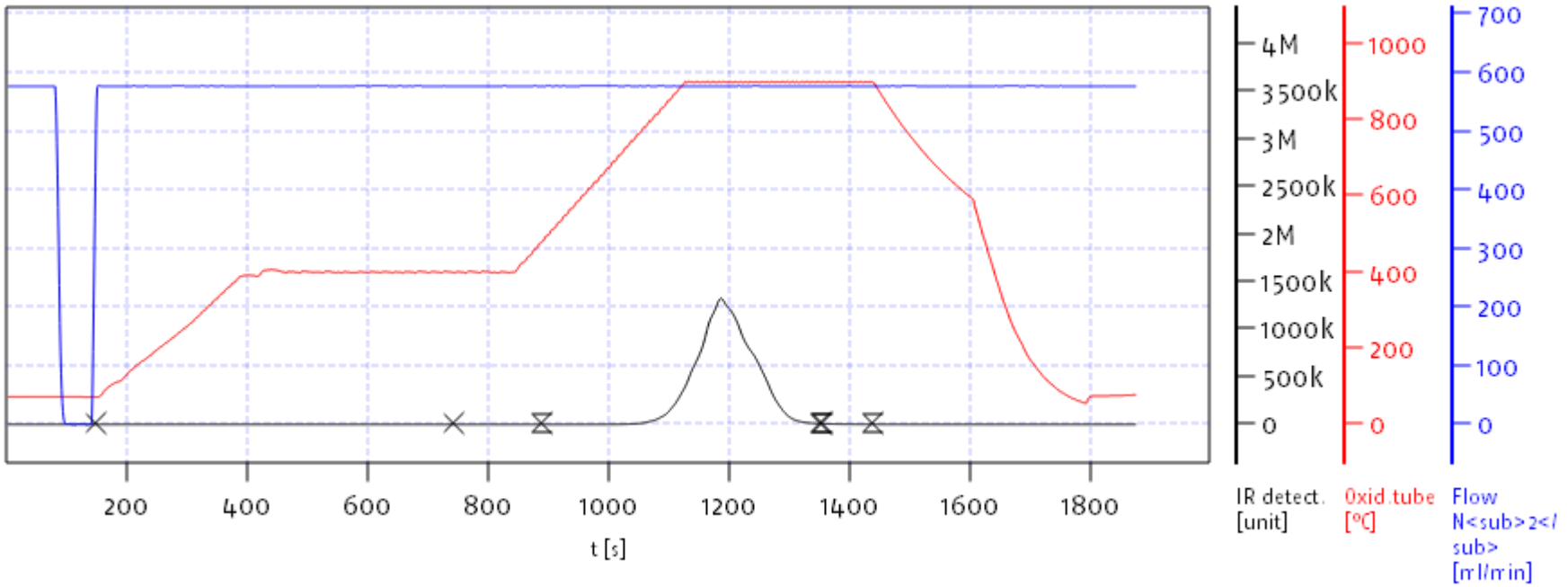
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	31	SEQ-CALL	200.00	0.0699	1.00	CARBON	8/25/2021 11:42 AM	0.000	4.206	4.206	bl,C1u	1 285	**4 920 073**	**0**	1.0000	1.0206



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Serial No: 0300.181017
Mode CCC

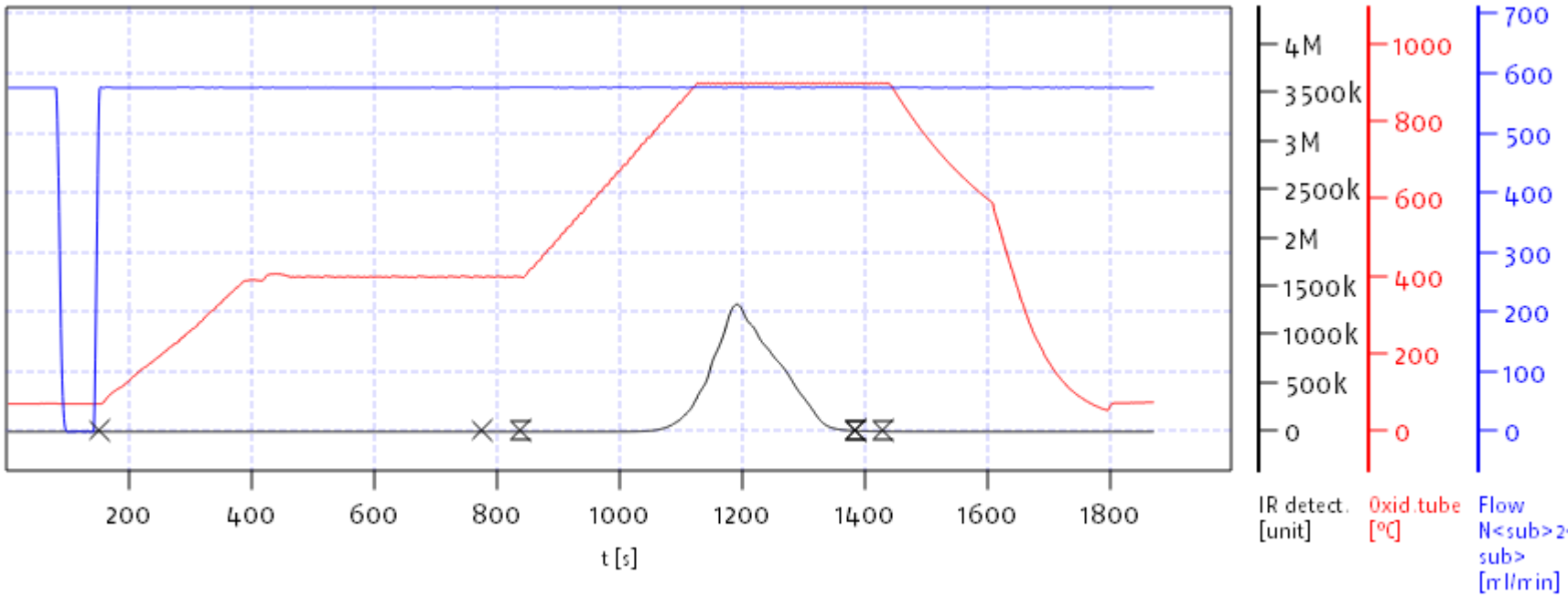
elementar
EXCELLENCE IN ELEMENTS

Document: TOC Calibration EH00065 082421BFb from: 8/25/2021 11:47 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	32	SEQ-CALM	200.00	0.0803	1.00	CARBON	8/25/2021 11:43 AM	0.000	4.812	4.812	bl,C1u	1 537	**5 655 573**	**0**	1.0000	1.0683



Name:

Access: soliTOC superuser

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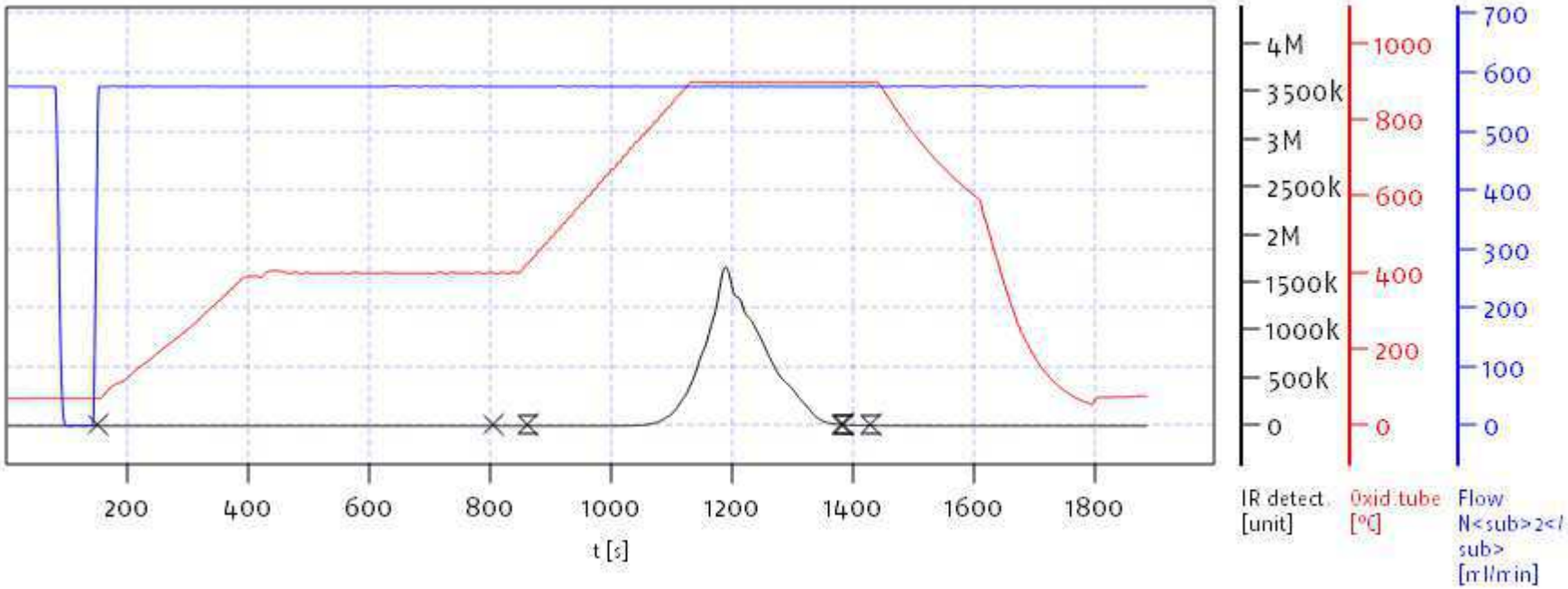
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	33	SEQ-CALN	200.00	0.0902	1.00	CARBON	8/25/2021 11:45 AM	0.000	5.406	5.406	bl,C1u	1 694	**6 449 031**	**0**	1.0000	1.0610



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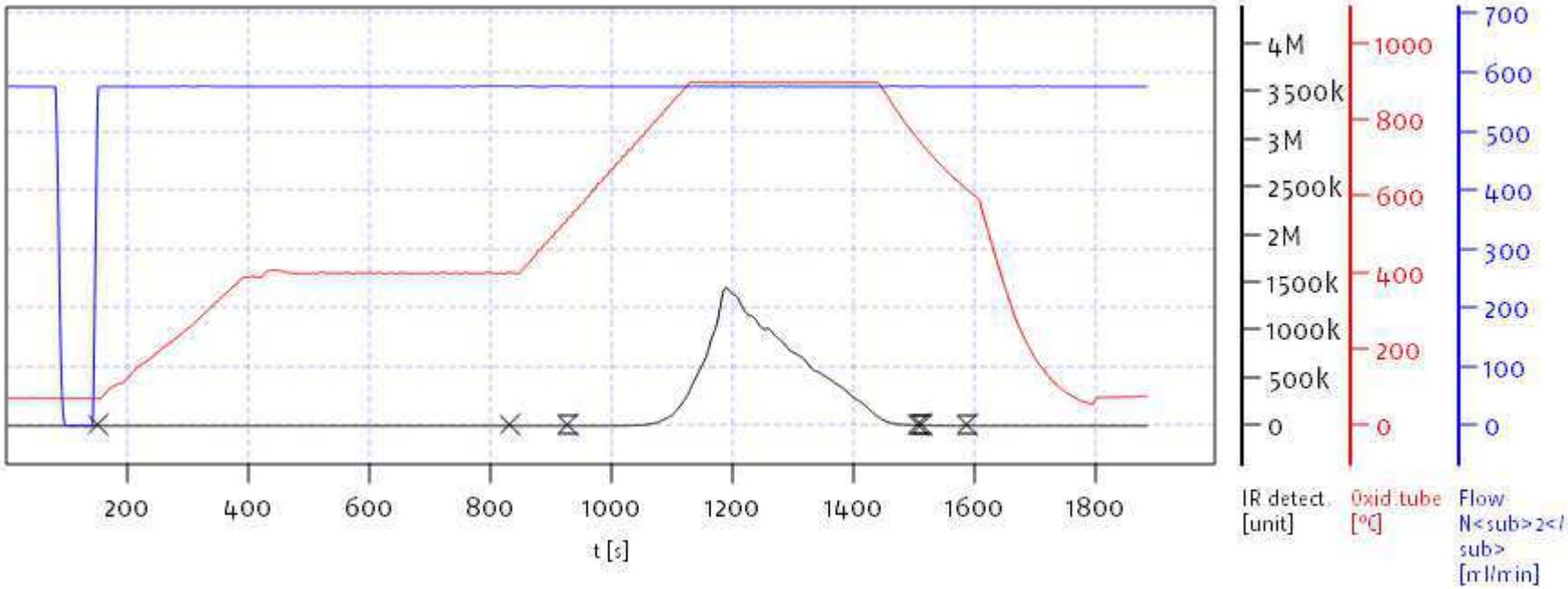
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	34	SEQ-CALO	200.00	0.1204	1.00	CARBON	8/25/2021 11:46 AM	0.000	7.218	7.218	bl,C1u,C3o	1 658	8 593 324	0	1.0000	1.3657



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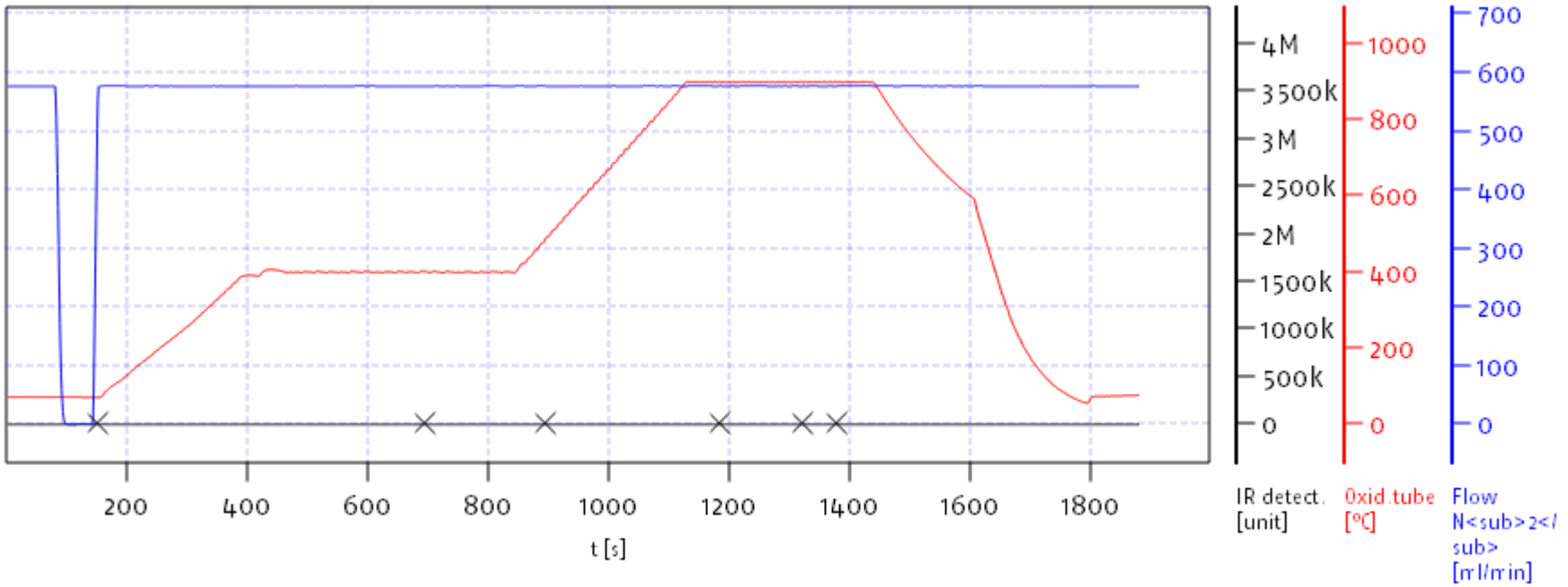
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	35	BLANK	1.00		1.00	CARBON	8/25/2021 7:43 AM	0.000	0.000	0.000	bl	708	0	0	1.0000	1.0293



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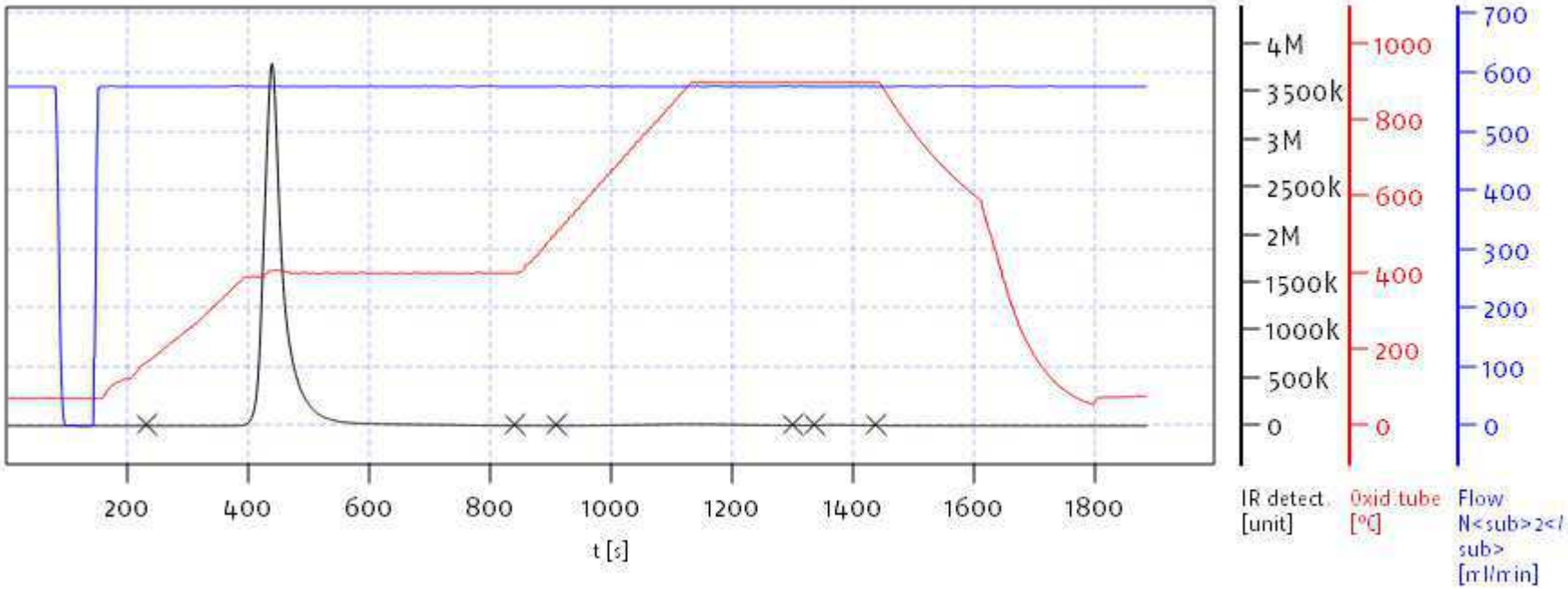
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	36	Dfactor	20.30		1.00	CARBON	8/25/2021 8:15 AM	44.446	0.000	44.446	bl	5 319 150	136 410	24 452	1.0755	1.0000



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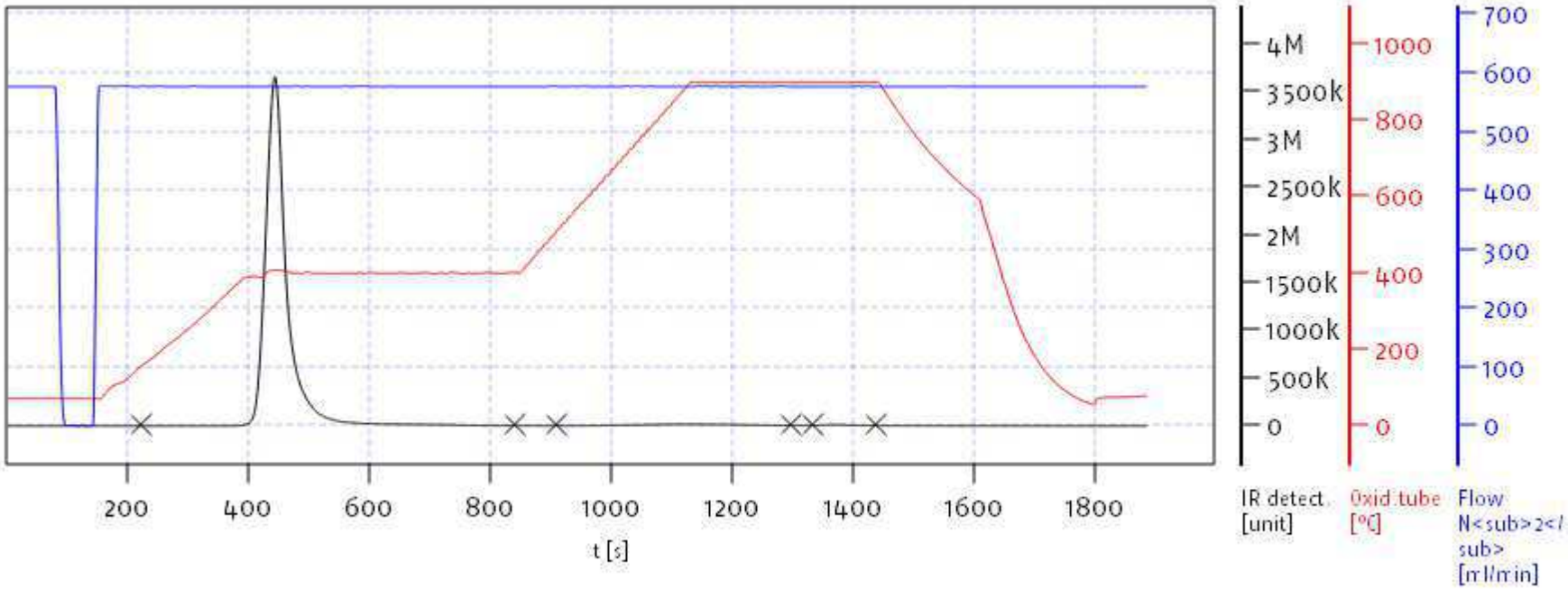
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	37	Dfactor	21.00		1.00	CARBON	8/25/2021 8:47 AM	44.446	0.000	44.446	bl	5 524 800	134 598	27 280	1.0712	1.0000



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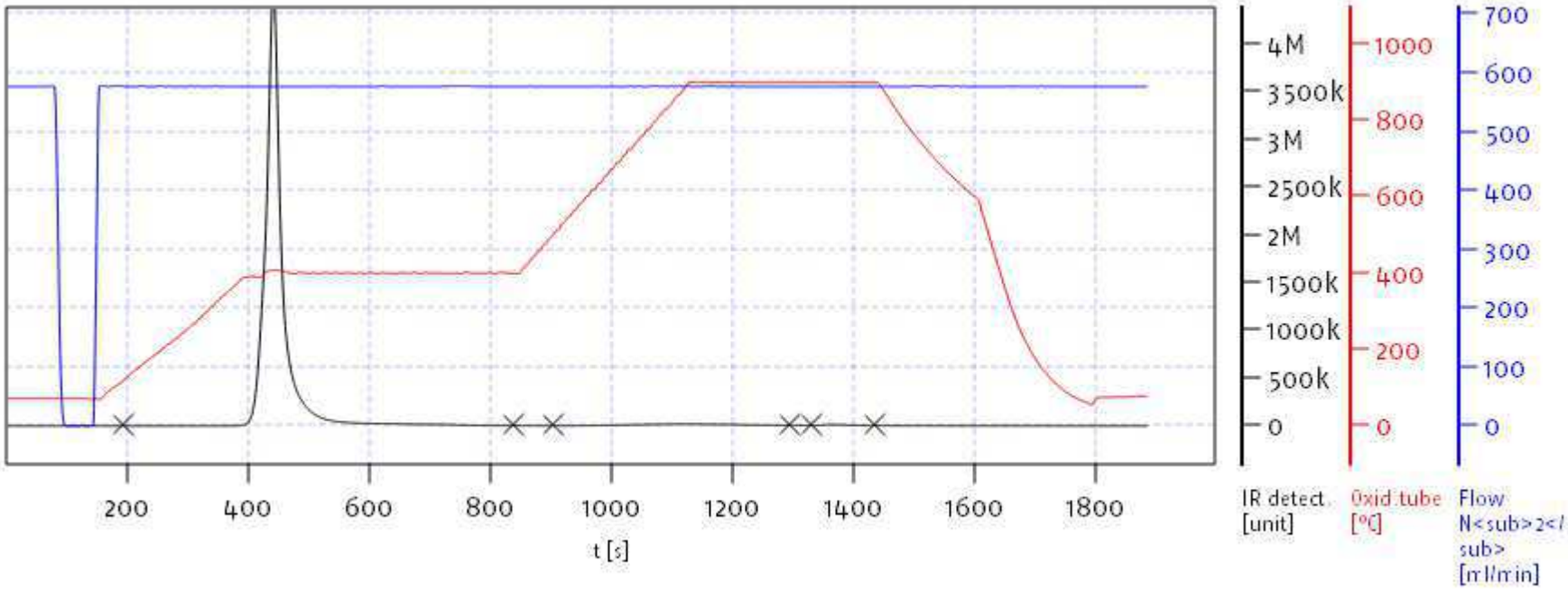
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	38	SEQ-ICV1	20.50		1.00	CARBON	8/25/2021 9:19 AM	47.154	1.091	48.245	bl	5 328 380	151 538	28 760	1.0733	1.0293



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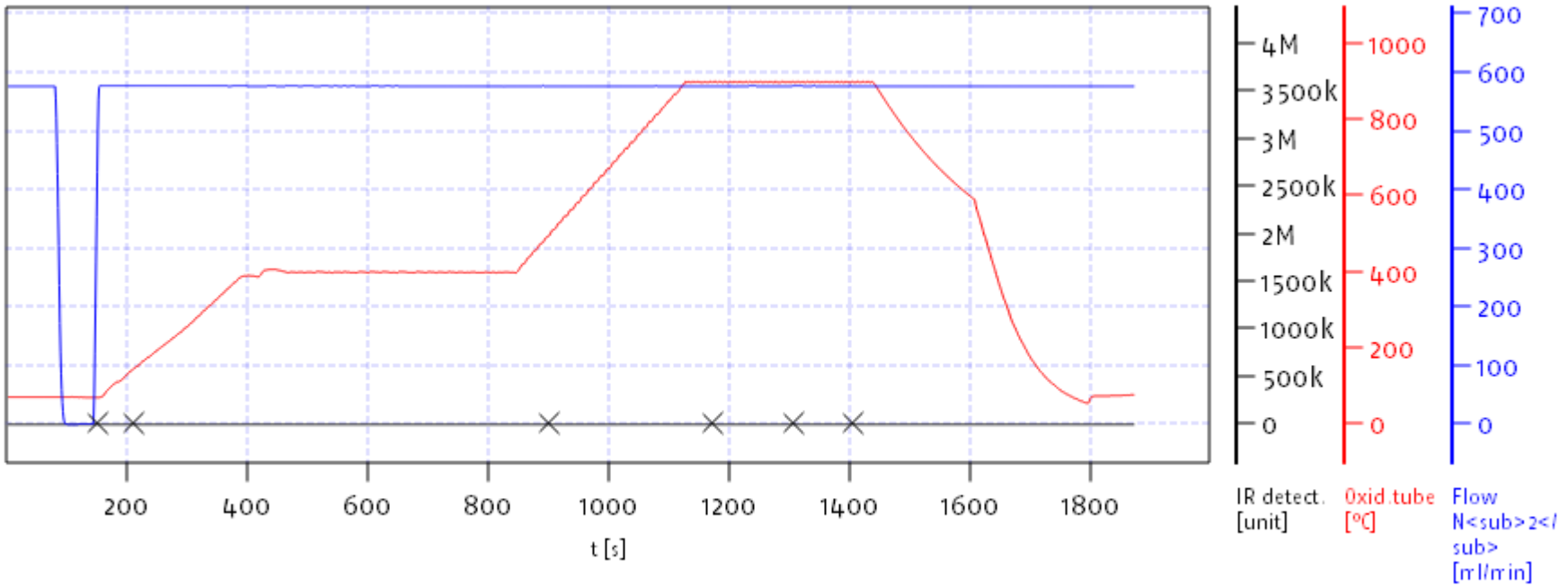
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	39	SEQ-ICB1	599.20		1.00	CARBON	8/25/2021 9:51 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	172	1 307	338	1.0733	1.0293



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Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0331	Instrument:	TOC Cube
		Calibration:	EH00065

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SJH0331-ICV1	peData_08312021@1034-2	NA	08/25/21 16:08
Initial Cal Blank	SJH0331-ICB1	peData_08312021@1034-3	NA	08/25/21 16:40
Calibration Check	SJH0331-CCV1	peData_08312021@1034-4	NA	08/25/21 22:29
Calibration Blank	SJH0331-CCB1	peData_08312021@1034-4	NA	08/25/21 23:01
Calibration Check	SJH0331-CCV2	peData_08312021@1034-5	NA	08/26/21 04:48
Calibration Blank	SJH0331-CCB2	peData_08312021@1034-5	NA	08/26/21 05:20
Calibration Check	SJH0331-CCV3	peData_08312021@1034-6	NA	08/26/21 11:09
Calibration Blank	SJH0331-CCB3	peData_08312021@1034-7	NA	08/26/21 11:41
Calibration Check	SJH0331-CCV4	peData_08312021@1034-6	NA	08/26/21 17:29
Calibration Blank	SJH0331-CCB4	peData_08312021@1034-6	NA	08/26/21 18:01
Calibration Check	SJH0331-CCV5	peData_08312021@1034-1	NA	08/26/21 23:59
Calibration Blank	SJH0331-CCB5	peData_08312021@1034-1	NA	08/27/21 00:30
Calibration Check	SJH0331-CCV6	peData_08312021@1034-1	NA	08/27/21 06:16
Calibration Blank	SJH0331-CCB6	peData_08312021@1034-1	NA	08/27/21 06:47
Calibration Check	SJH0331-CCV7	peData_08312021@1034-2	NA	08/27/21 12:34
Calibration Blank	SJH0331-CCB7	peData_08312021@1034-2	NA	08/27/21 13:06
Calibration Check	SJH0331-CCV8	peData_08312021@1034-3	NA	08/27/21 18:53
Calibration Blank	SJH0331-CCB8	peData_08312021@1034-3	NA	08/27/21 19:24
Calibration Check	SJH0331-CCV9	peData_08312021@1034-5	NA	08/28/21 01:09
Calibration Blank	SJH0331-CCB9	peData_08312021@1034-5	NA	08/28/21 01:40
Calibration Check	SJH0331-CCVA	peData_08312021@1034-6	NA	08/28/21 07:24
Calibration Blank	SJH0331-CCBA	peData_08312021@1034-6	NA	08/28/21 07:56
Calibration Check	SJH0331-CCVB	peData_08312021@1034-7	NA	08/28/21 13:42
Calibration Blank	SJH0331-CCBB	peData_08312021@1034-7	NA	08/28/21 14:13
Calibration Check	SJH0331-CCVC	peData_08312021@1034-6	NA	08/28/21 19:57
Calibration Blank	SJH0331-CCBC	peData_08312021@1034-6	NA	08/28/21 20:28
MRL Check	BJH0674-MRL1	peData_08312021@1034-1	Solid	08/29/21 01:07
Blank	BJH0674-BLK1	peData_08312021@1034-1	Solid	08/29/21 01:38
Calibration Check	SJH0331-CCVD	peData_08312021@1034-1	NA	08/29/21 02:10
Calibration Blank	SJH0331-CCBD	peData_08312021@1034-1	NA	08/29/21 02:41

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

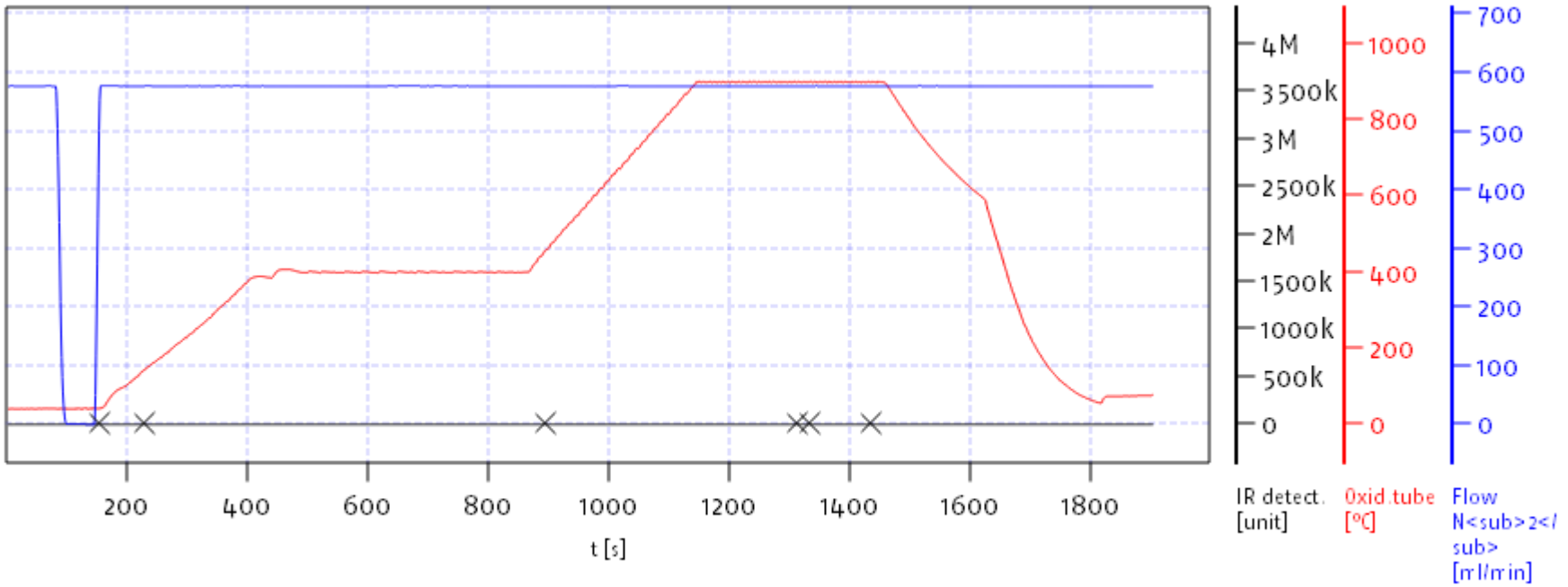
Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0331	Instrument:	TOC Cube
		Calibration:	EH00065

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LCS	BJH0674-BS1	peData_08312021@1034-1	Solid	08/29/21 03:12
Reference	BJH0674-SRM1	peData_08312021@1034-1	Solid	08/29/21 03:43
Calibration Check	SJH0331-CCVE	peData_08312021@1034-2	NA	08/29/21 08:25
Calibration Blank	SJH0331-CCBE	peData_08312021@1034-2	NA	08/29/21 08:56
LDW20-IT384	21H0263-01	peData_08312021@1034-2	Solid	08/29/21 11:33
LDW20-IT384	BJH0674-DUP1	peData_08312021@1034-2	Solid	08/29/21 12:05
LDW20-IT384	BJH0674-MS1	peData_08312021@1034-2	Solid	08/29/21 12:36
Calibration Check	SJH0331-CCVF	peData_08312021@1034-3	NA	08/29/21 14:41
Calibration Blank	SJH0331-CCBF	peData_08312021@1034-3	NA	08/29/21 15:13
Calibration Check	SJH0331-CCVG	peData_08312021@1034-4	NA	08/29/21 20:58
Calibration Blank	SJH0331-CCBG	peData_08312021@1034-4	NA	08/29/21 21:29
Calibration Check	SJH0331-CCVH	peData_08312021@1034-5	NA	08/30/21 03:12
Calibration Blank	SJH0331-CCBH	peData_08312021@1034-5	NA	08/30/21 03:43
Calibration Check	SJH0331-CCVI	peData_08312021@1034-7	NA	08/30/21 09:27
Calibration Blank	SJH0331-CCBI	peData_08312021@1034-7	NA	08/30/21 09:59
Calibration Check	SJH0331-CCVJ	peData_08312021@1034-(	NA	08/30/21 15:45
Calibration Blank	SJH0331-CCBJ	peData_08312021@1034-(	NA	08/30/21 16:16

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	39	BLANK	1.00		1.00	CARBON	8/25/2021 2:33 PM	0.000	0.000	0.000	bl	269	2 397	1 039	1.0000	1.0000



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Analyst: BF

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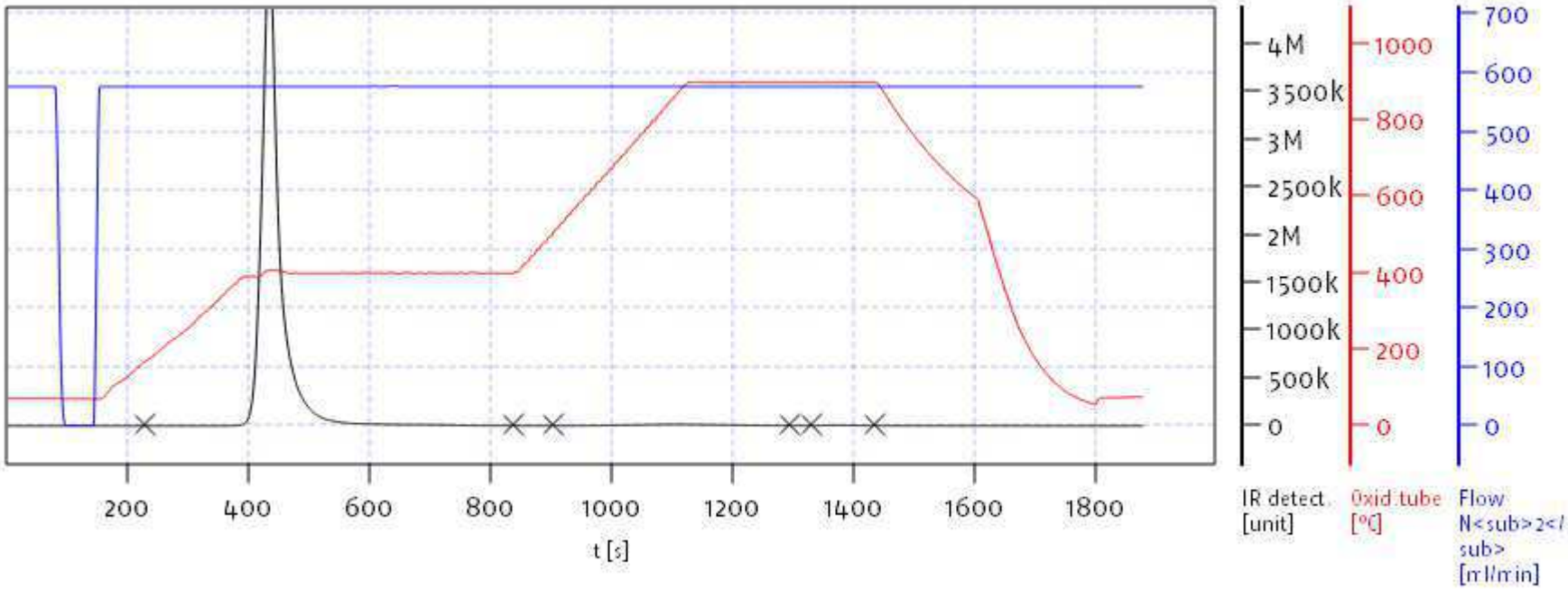
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	40	Dfactor	23.10		1.00	CARBON	8/25/2021 3:05 PM	44.489	0.729	45.218	bl	6 305 580	111 318	17 655	0.9659	1.0000



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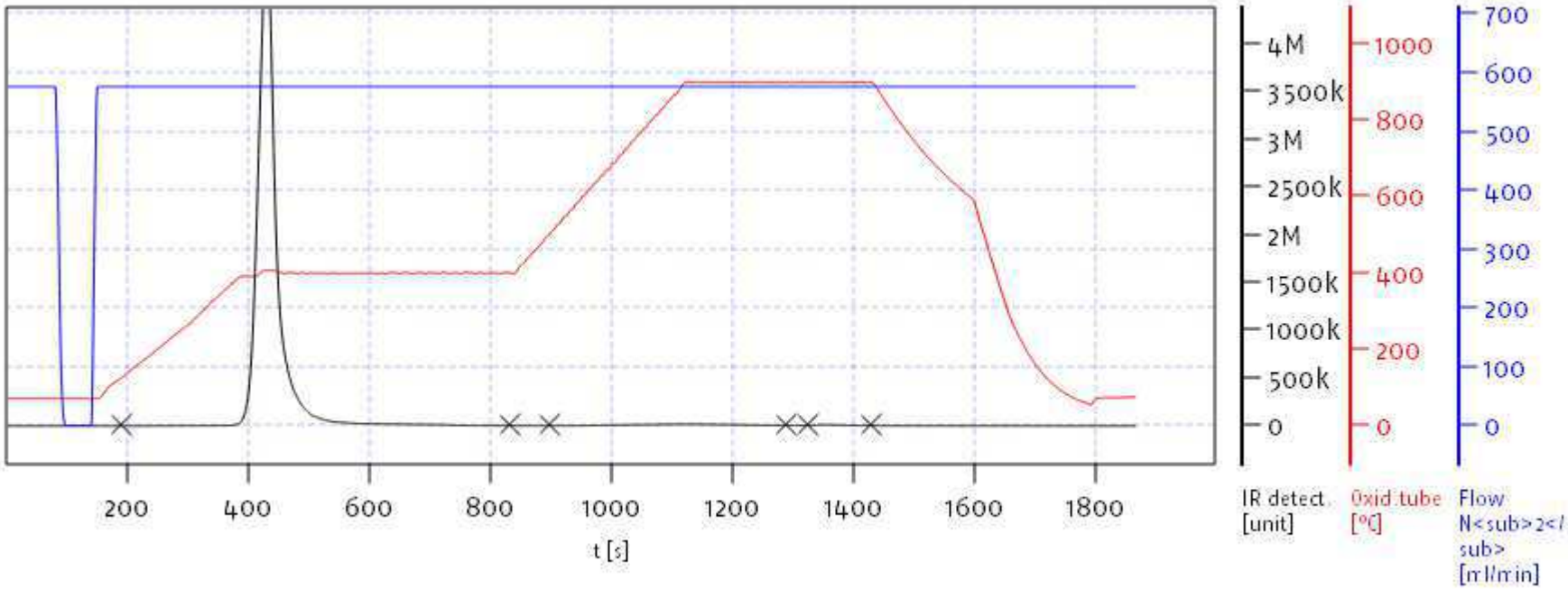
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	41	Dfactor	24.40		1.00	CARBON	8/25/2021 3:36 PM	44.543	0.898	45.441	bl	6 680 720	141 475	25 730	0.9629	1.0000



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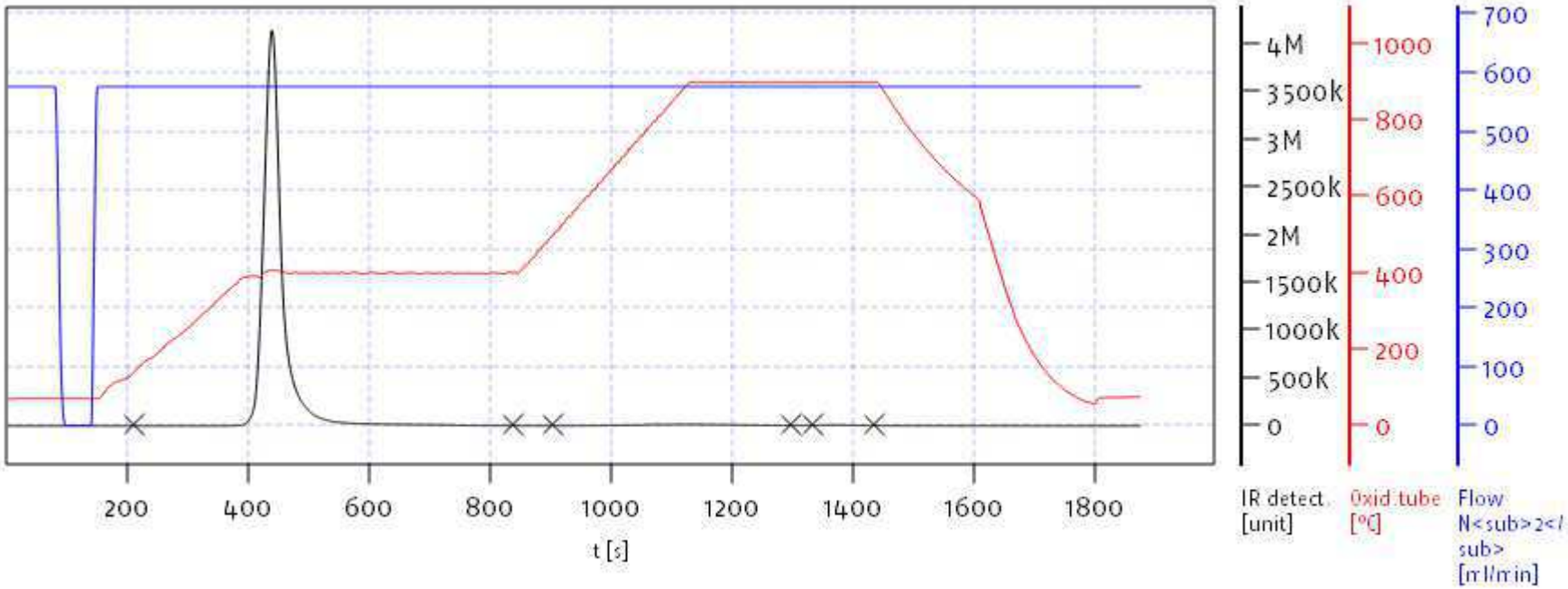
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	42	SJH0331-ICV1	20.10		1.00	CARBON	8/25/2021 4:08 PM	43.884	0.897	44.781	bl	5 416 100	118 414	22 631	0.9644	1.0000



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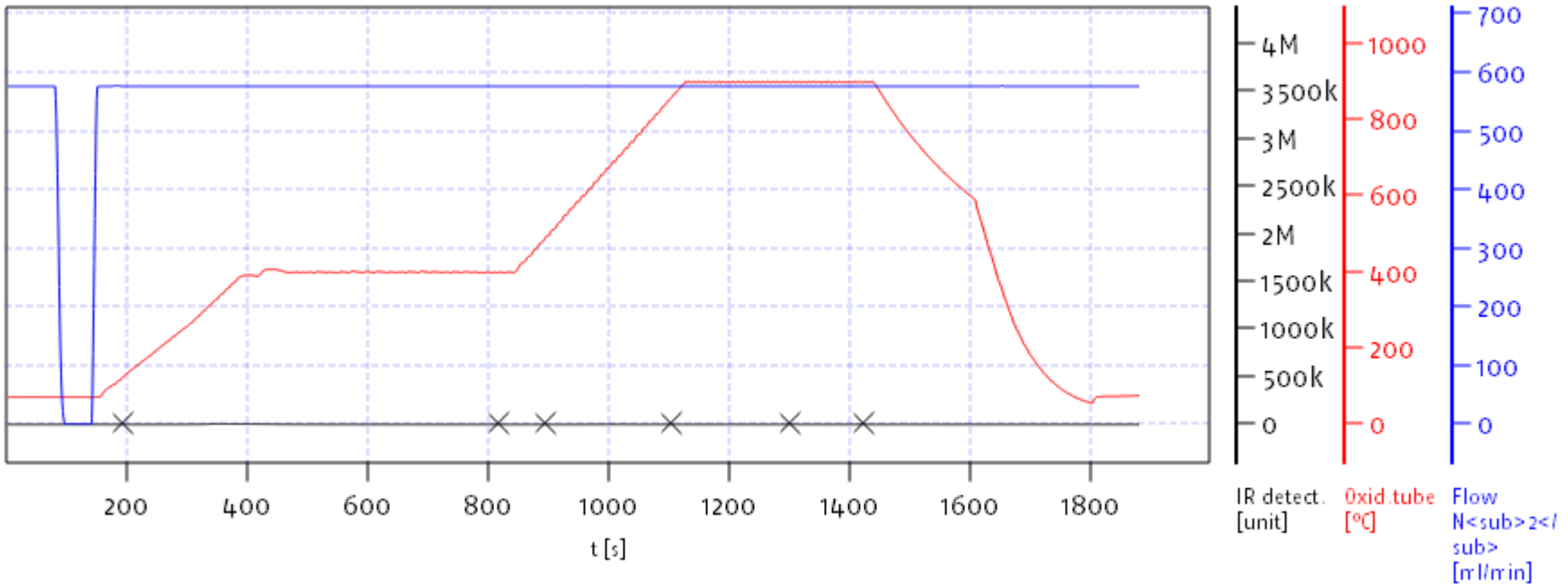
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	43	SJH0331-ICB1	554.10		1.00	CARBON	8/25/2021 4:40 PM	0.003	0.000	0.003	bl,C3u,C2u	23 343	1 885	805	0.9644	1.0000



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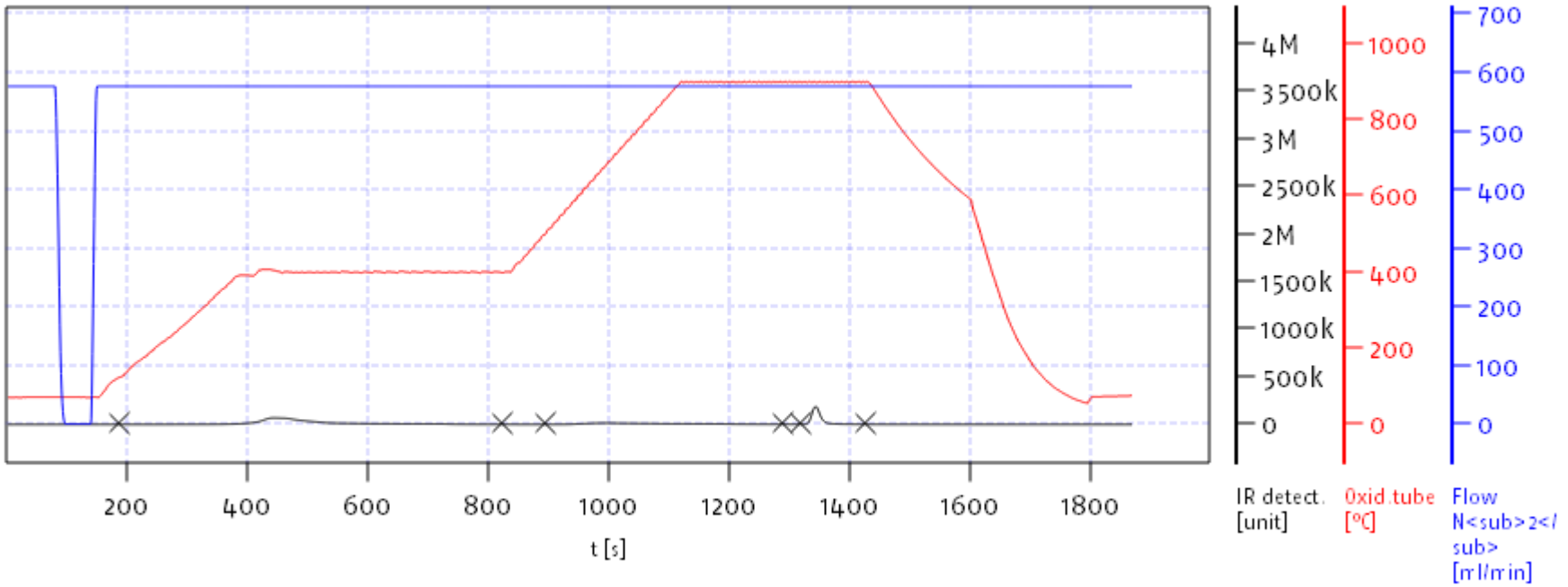
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	44	21G0313-17	621.60		1.00	CARBON	8/25/2021 5:12 PM	0.103	0.022	0.125	bl	287 974	92 124	123 678	0.9644	1.0000



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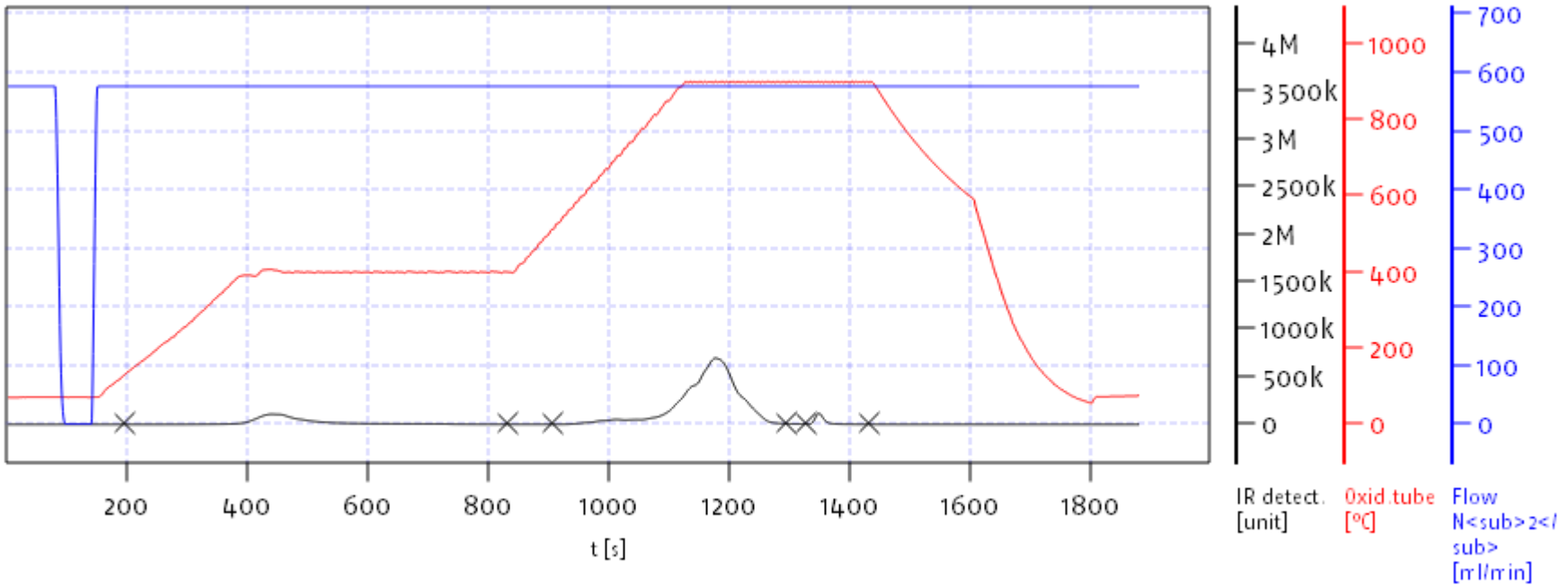
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	45	21G0313-18	364.50		1.00	CARBON	8/25/2021 5:43 PM	0.210	1.195	1.405	bl	412 259	2 590 880	78 972	0.9644	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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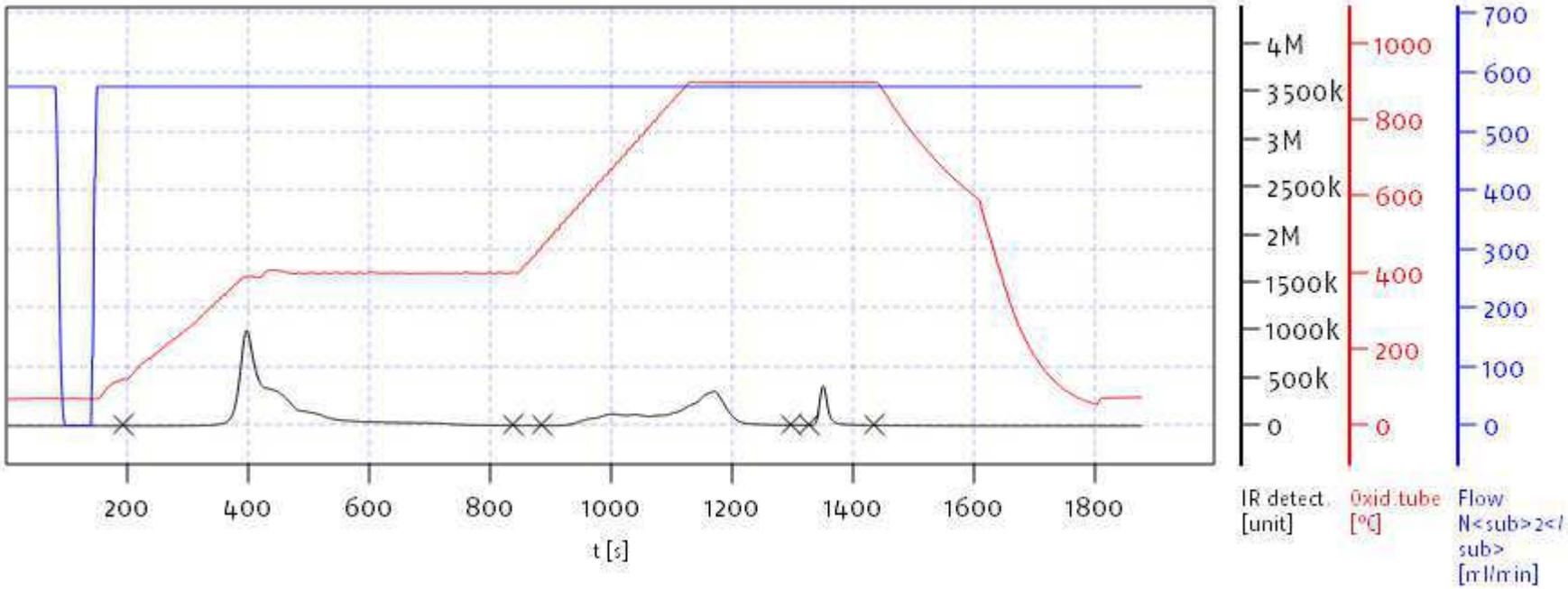
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	46	21G0322-05	555.60		1.00	CARBON	8/25/2021 6:15 PM	0.794	0.479	1.274	bl	2 451 470	1 589 110	272 309	0.9644	1.0000



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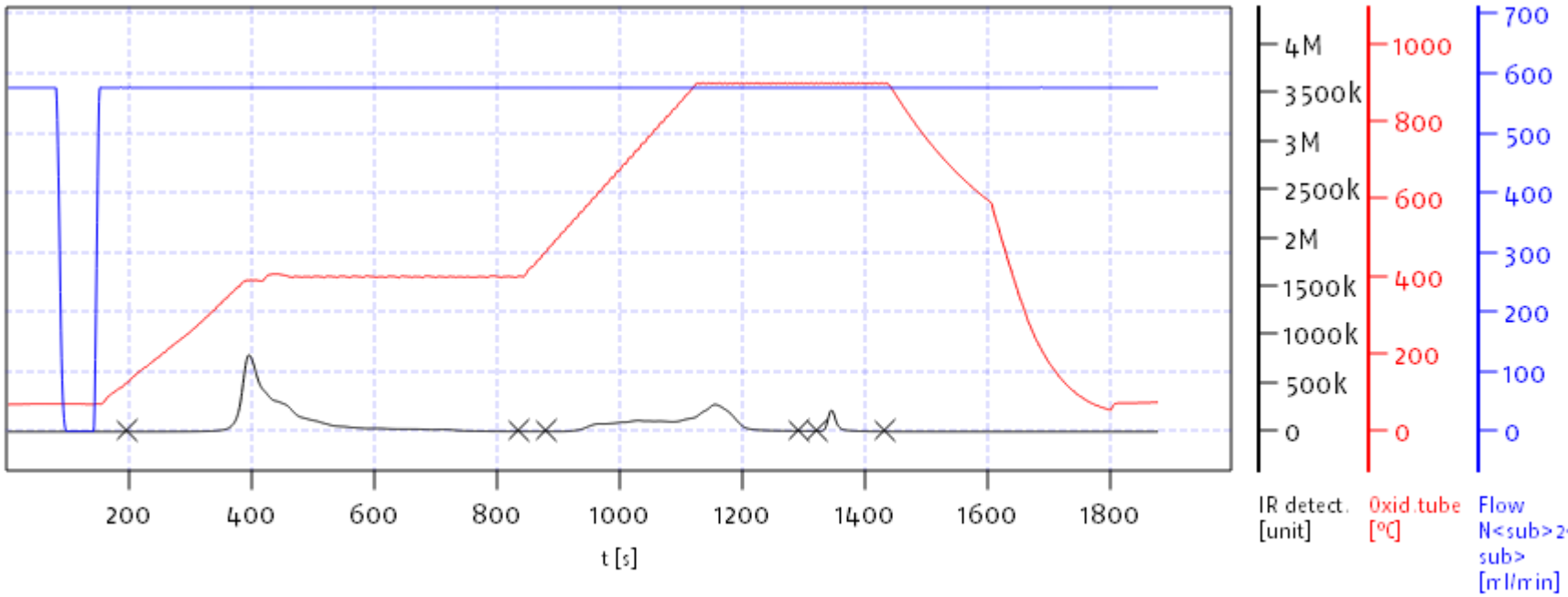
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	47	BJH0434-DUP3	525.50		1.00	CARBON	8/25/2021 6:47 PM	0.682	0.425	1.107	bl	2 074 920	1 332 920	144 038	0.9644	1.0000



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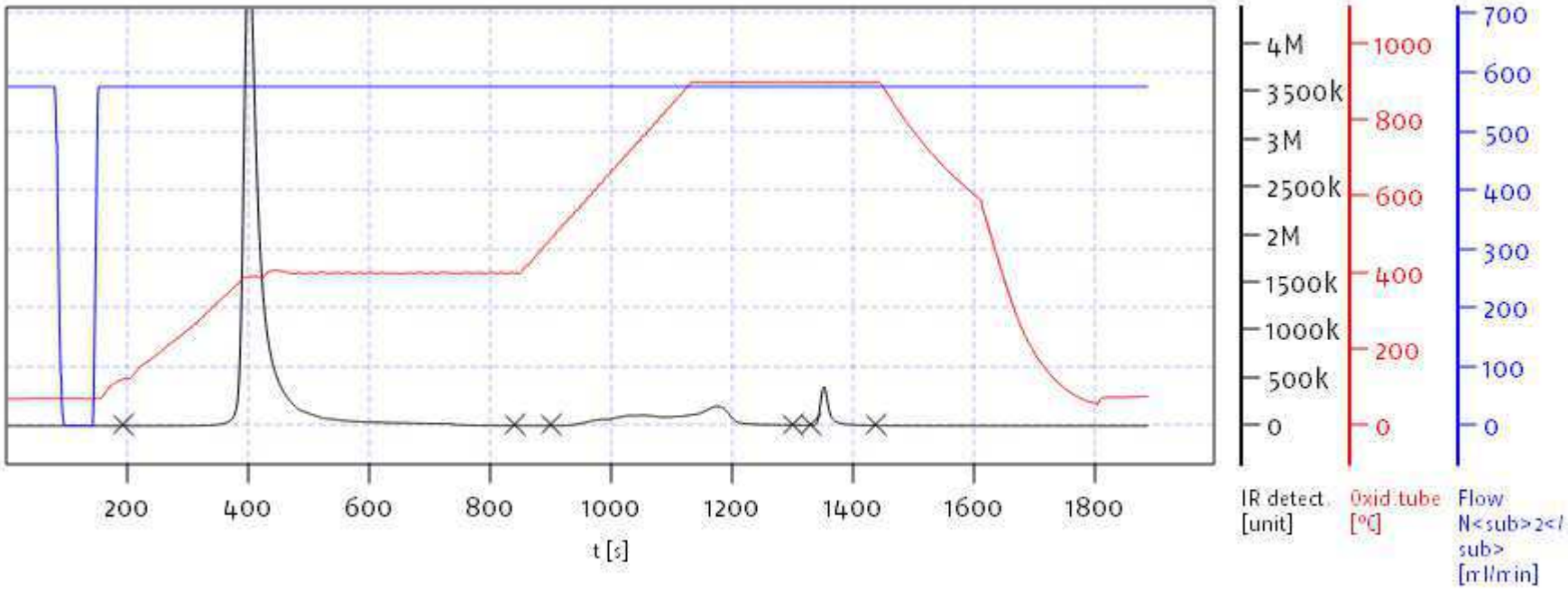
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	48	BJH0434-MS3	537.50	0.0145	1.00	CARBON	8/25/2021 7:19 PM	1.970	0.338	2.309	bl	6 246 020	1 088 690	269 680	0.9644	1.0000



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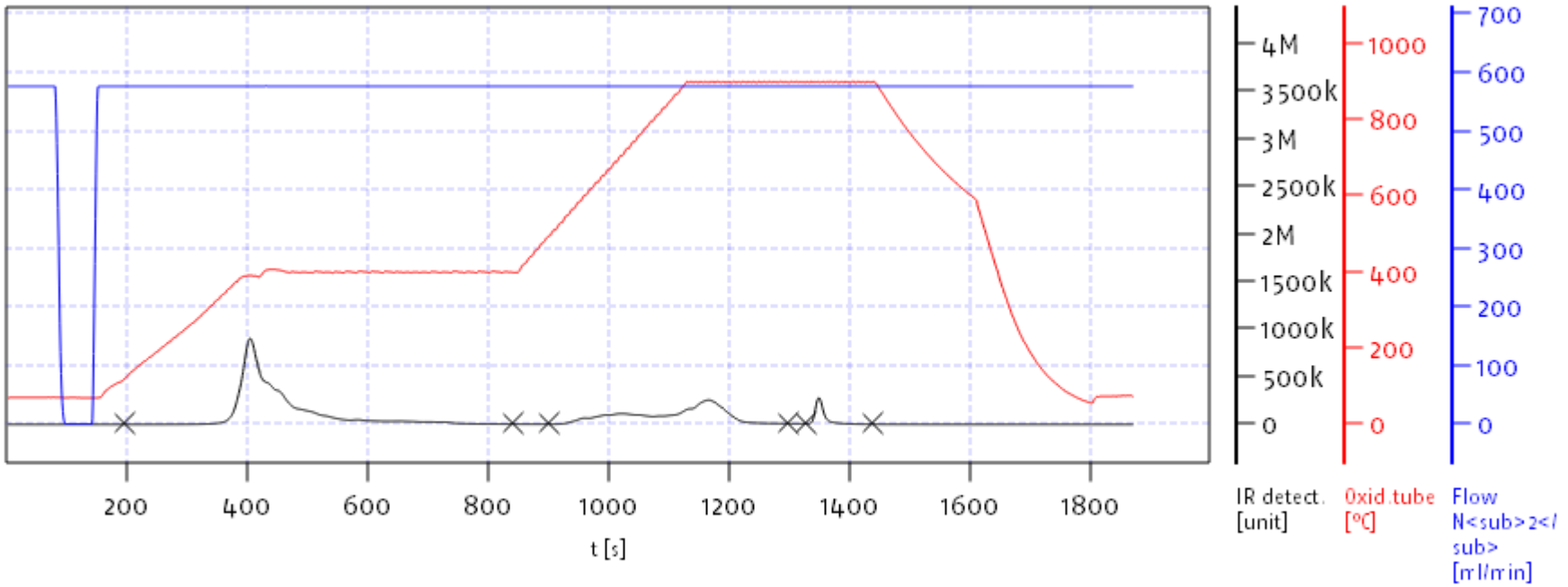
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	49	21G0322-06	586.50		1.00	CARBON	8/25/2021 7:51 PM	0.703	0.368	1.071	bl	2 364 740	1 288 930	184 548	0.9644	1.0000



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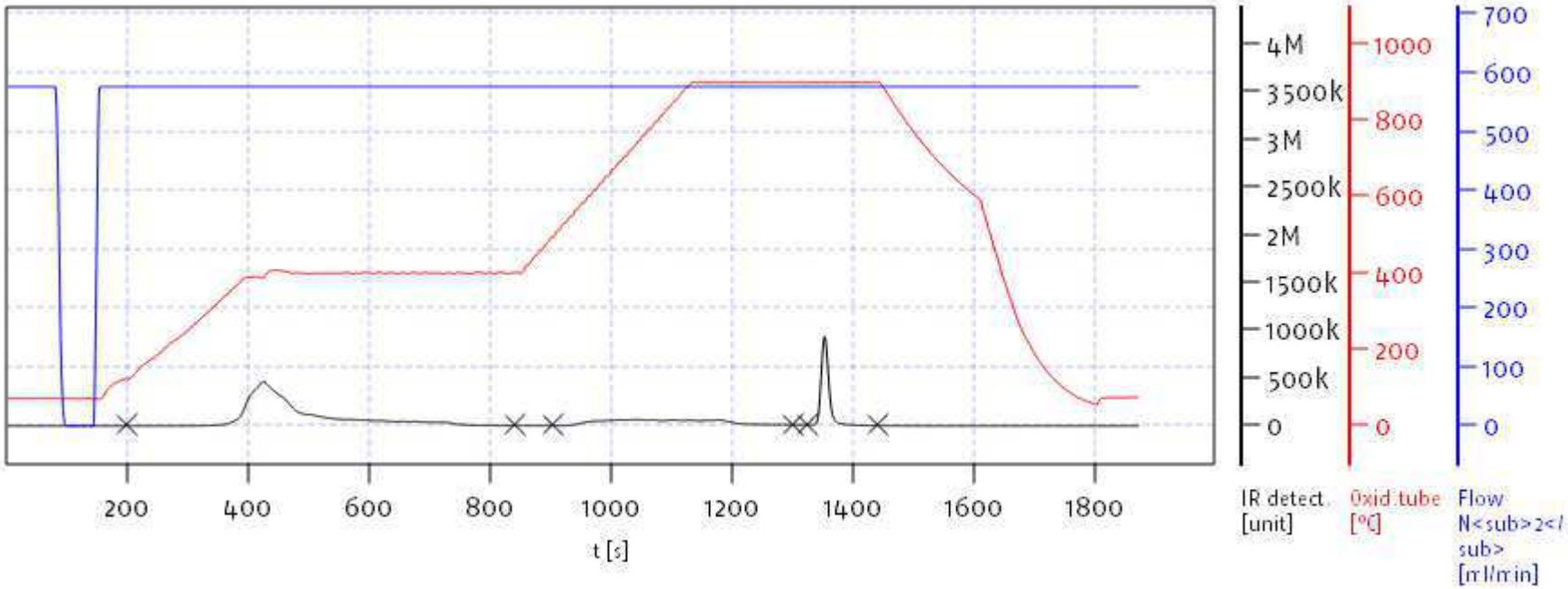
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	50	21G0322-07	645.40		1.00	CARBON	8/25/2021 8:22 PM	0.587	0.155	0.742	bl	1 802 760	603 747	527 933	0.9644	1.0000



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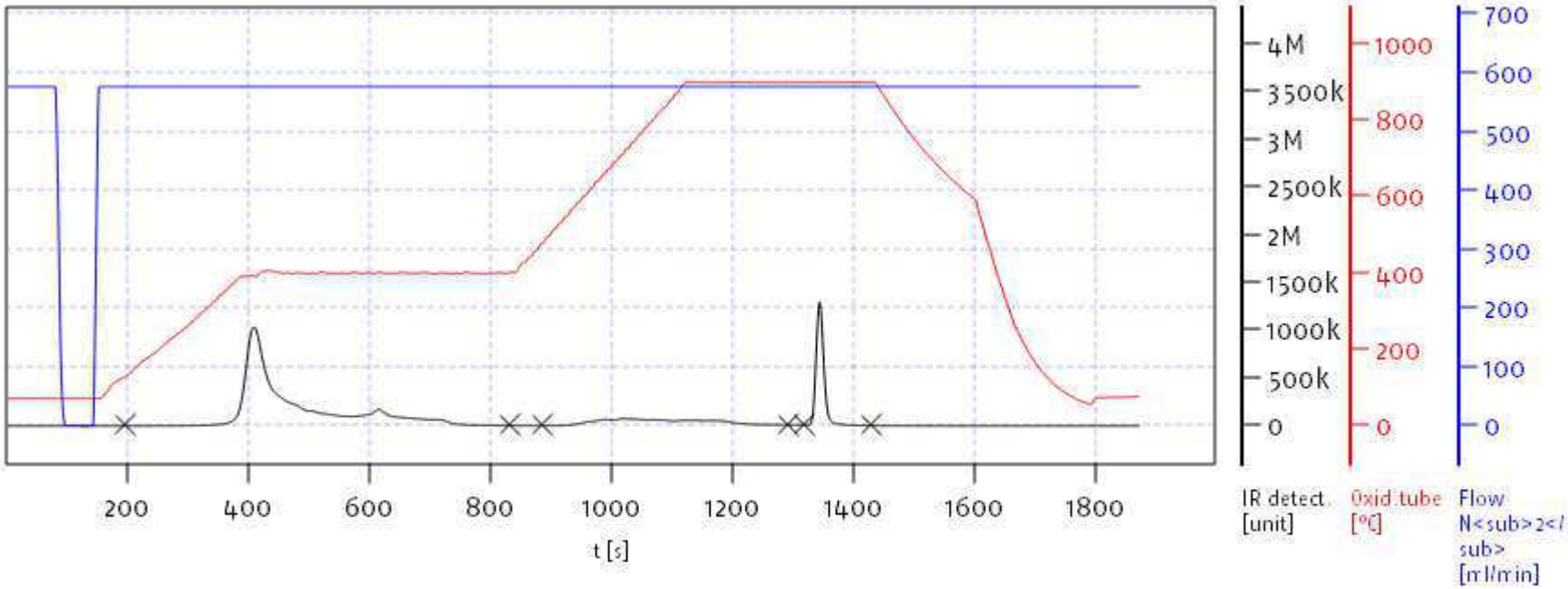
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	51	21G0322-08	526.80		1.00	CARBON	8/25/2021 8:54 PM	1.132	0.194	1.327	bl	2 929 100	618 360	729 749	0.9644	1.0000



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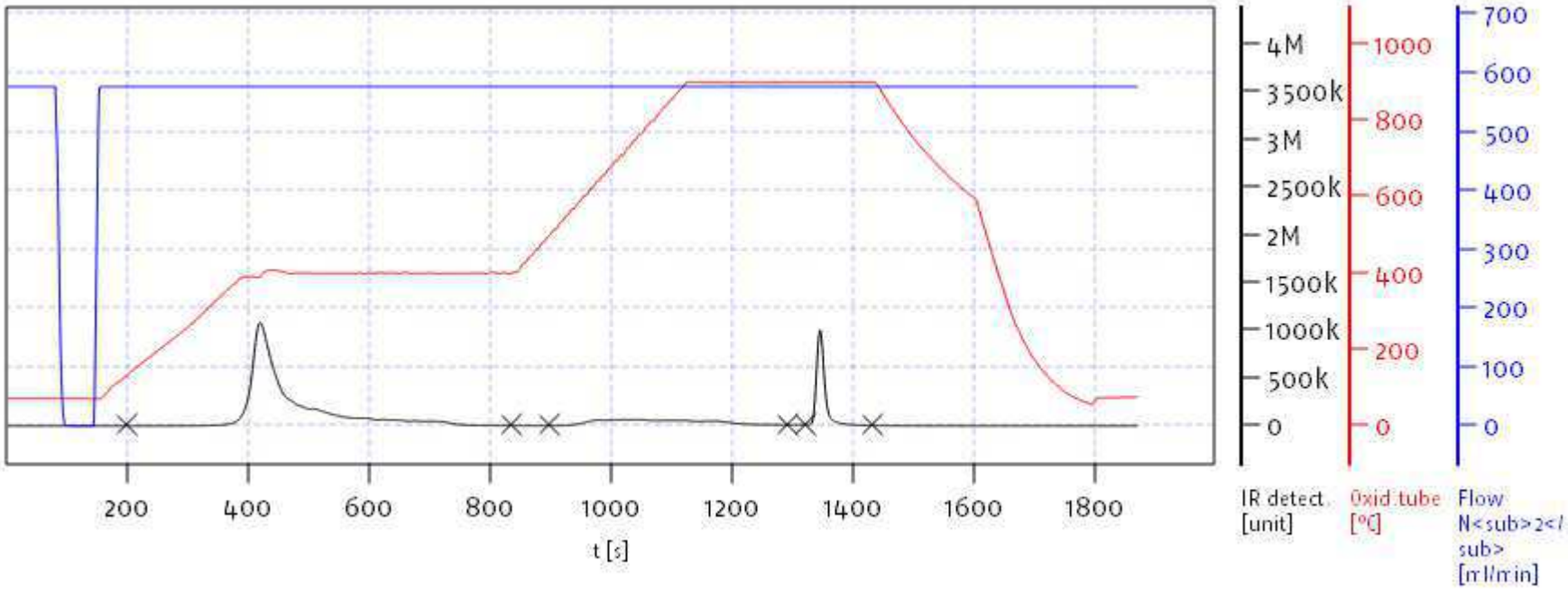
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	52	21G0322-09	525.60		1.00	CARBON	8/25/2021 9:26 PM	1.042	0.183	1.225	bl	2 762 510	580 911	600 994	0.9644	1.0000



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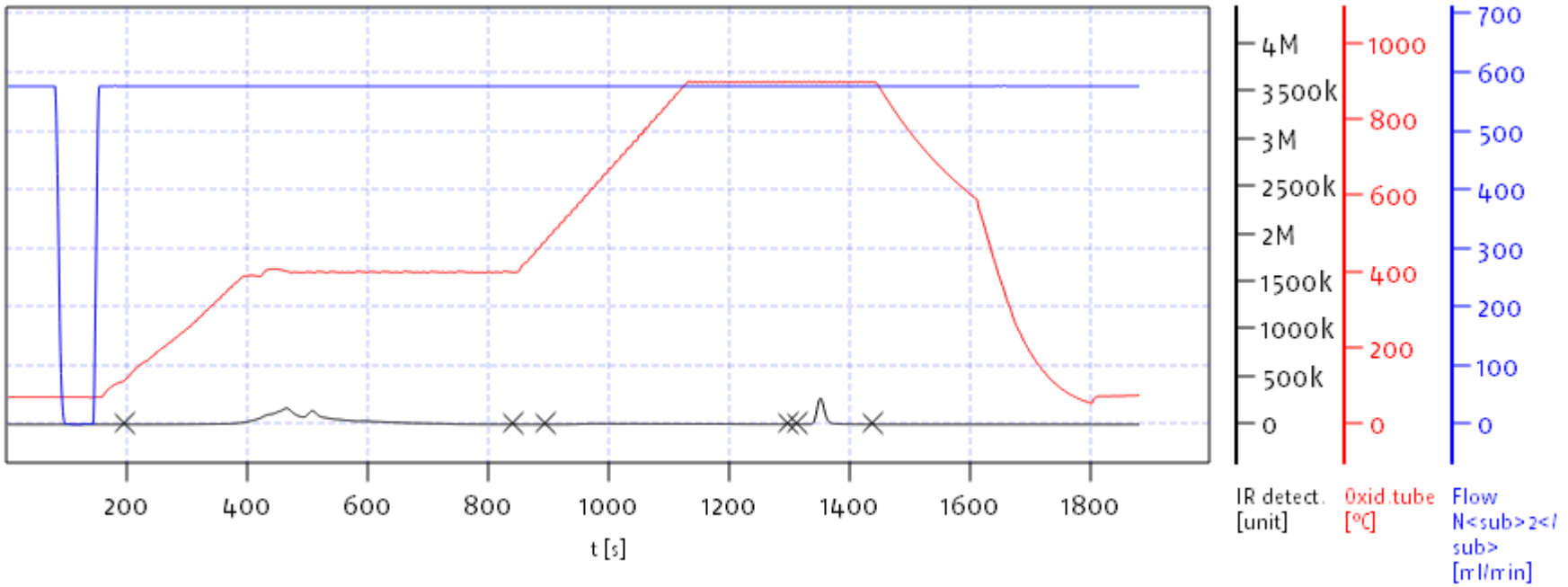
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	53	21G0330-01	587.30		1.00	CARBON	8/25/2021 9:57 PM	0.242	0.018	0.260	bl	734 950	73 410	156 753	0.9644	1.0000



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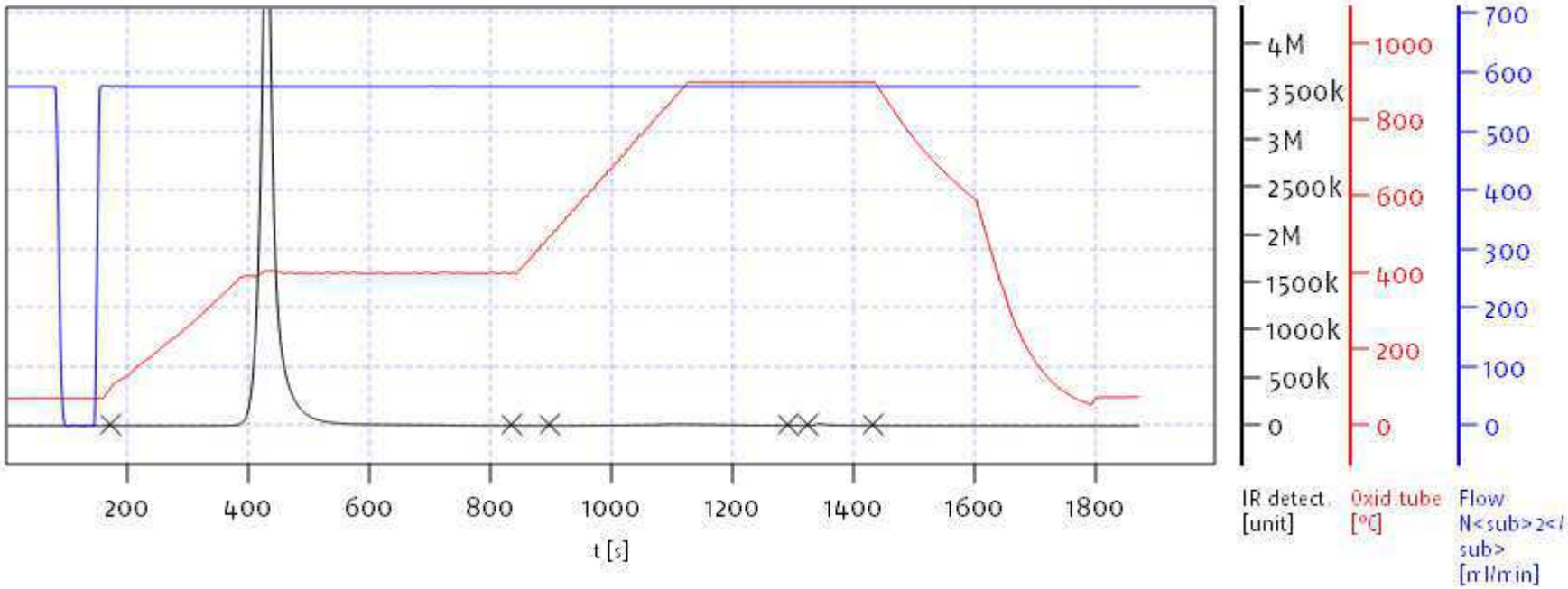
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	54	SJH0331-CCV1	20.90		1.00	CARBON	8/25/2021 10:29 PM	43.755	0.830	44.585	bl	5 610 790	114 398	26 780	0.9644	1.0000



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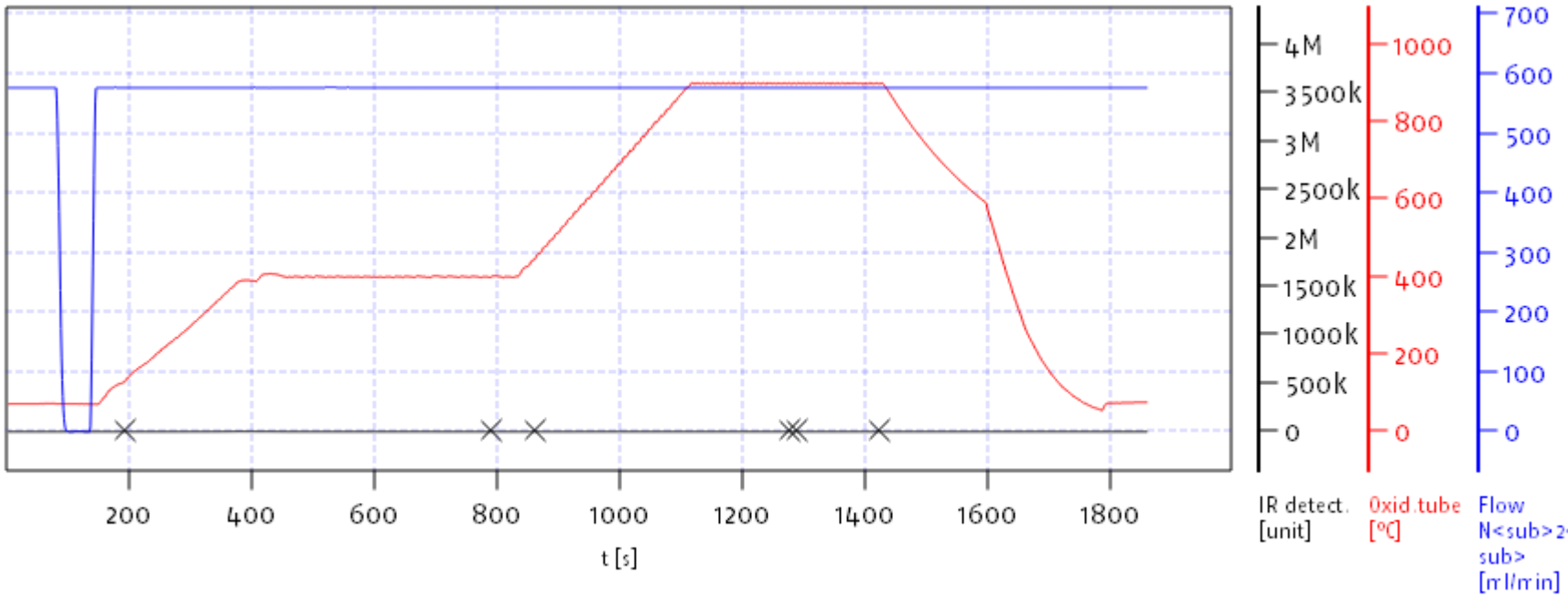
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	55	SJH0331-CCB1	539.70		1.00	CARBON	8/25/2021 11:01 PM	0.000	0.000	0.000	bl,C3u,C2u	8 568	654	96	0.9644	1.0000



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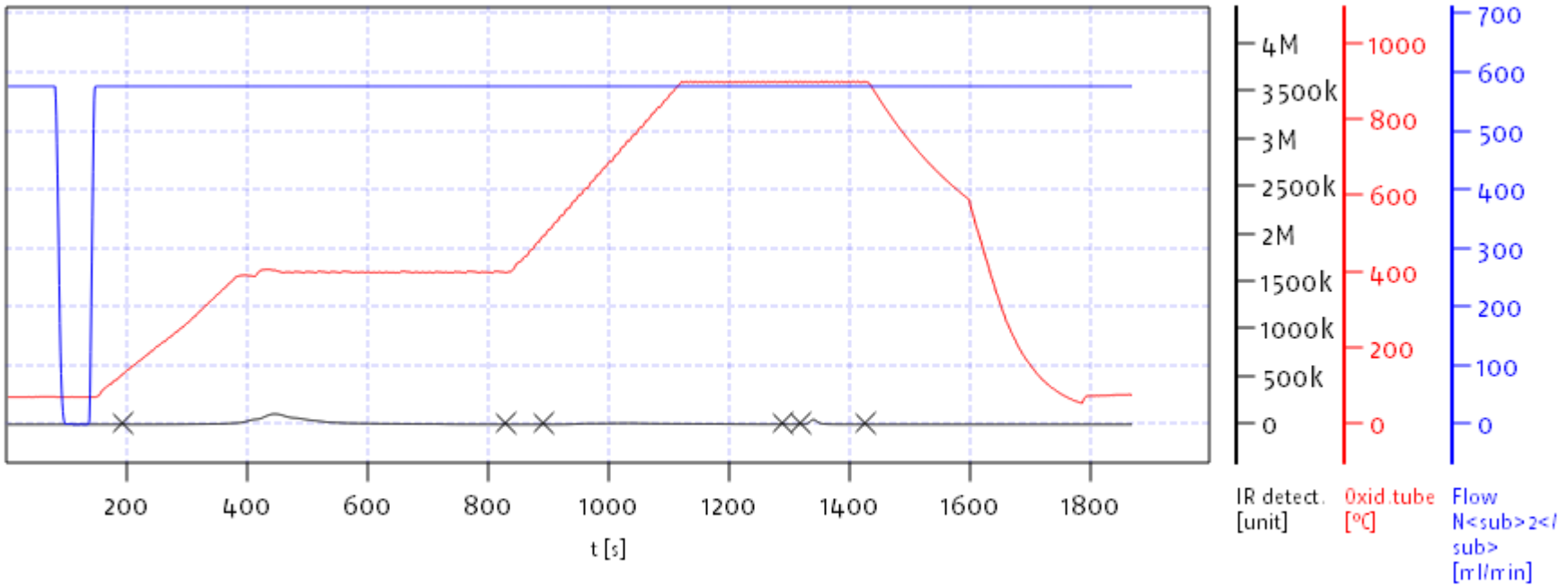
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	56	BJH0434-DUP4	597.30		1.00	CARBON	8/25/2021 11:32 PM	0.120	0.021	0.141	bl	430 799	87 095	32 284	0.9644	1.0000



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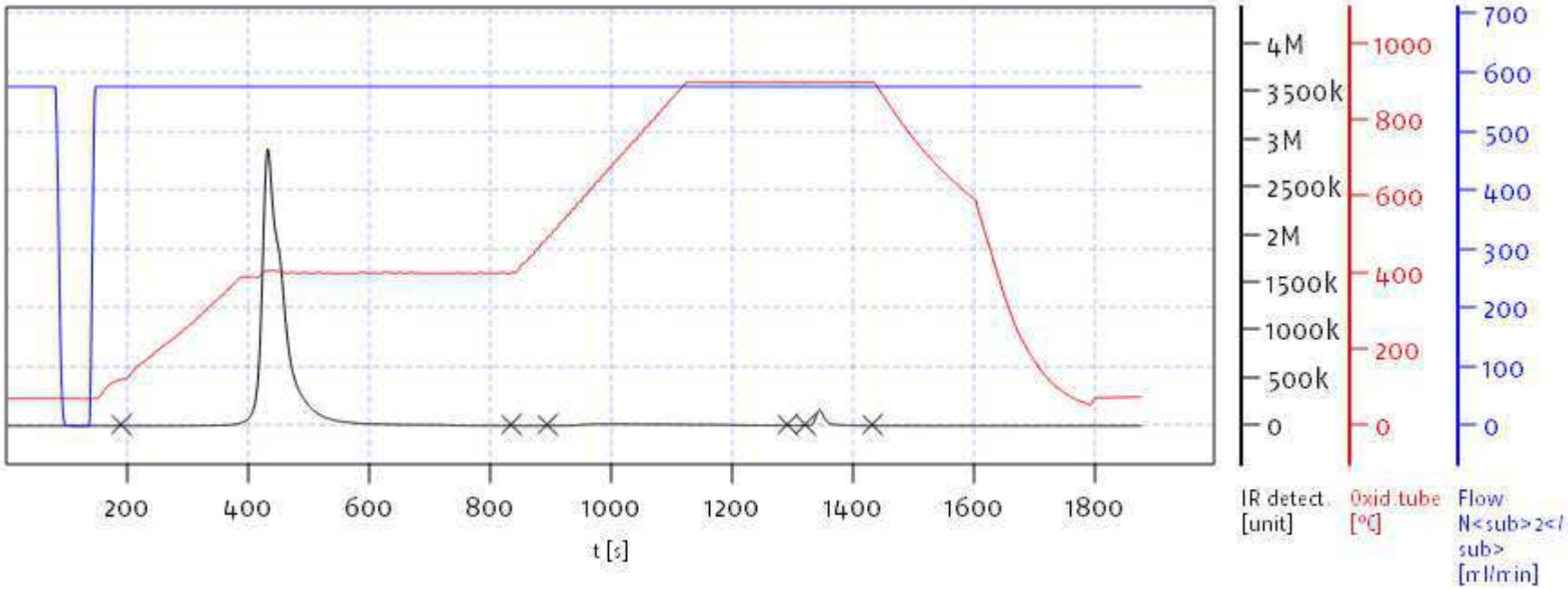
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	57	BJH0434-MS4	640.80	0.0128	1.00	CARBON	8/26/2021 12:04 AM	1.164	0.041	1.205	bl	4 483 710	165 615	115 595	0.9644	1.0000



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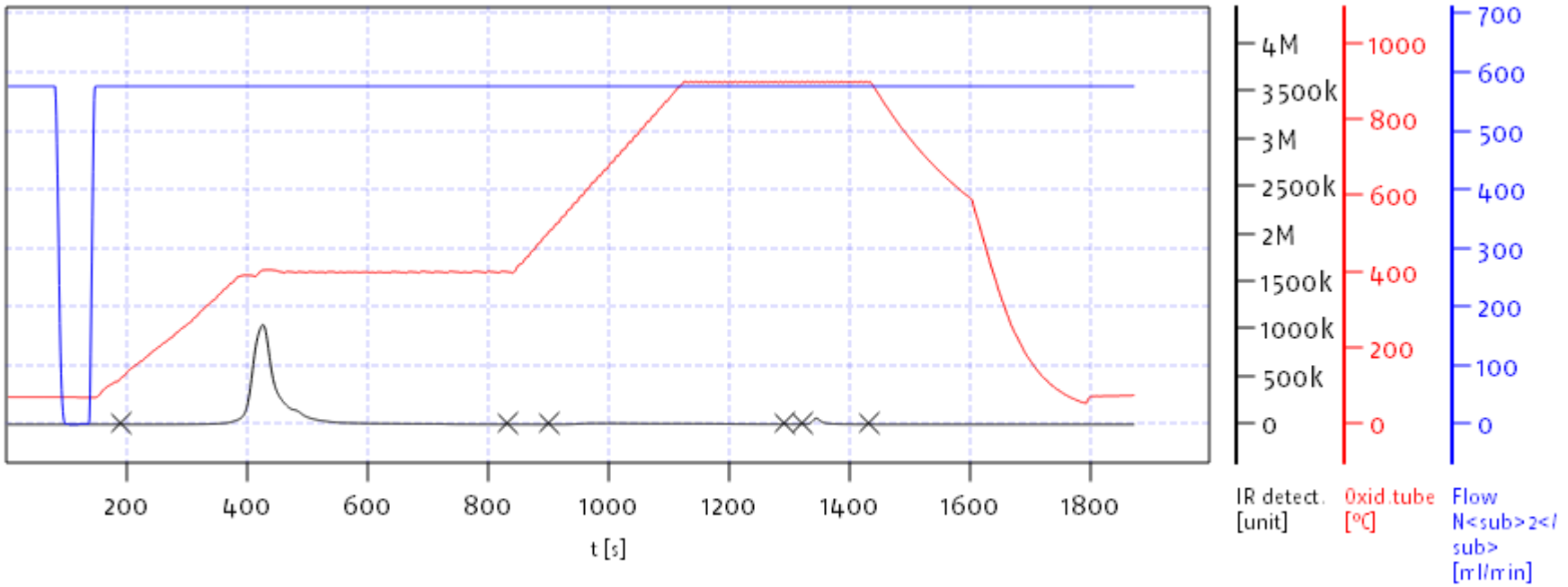
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	58	21G0330-02	694.00		1.00	CARBON	8/26/2021 12:36 AM	0.444	0.021	0.465	bl	1 867 910	96 006	47 239	0.9644	1.0000



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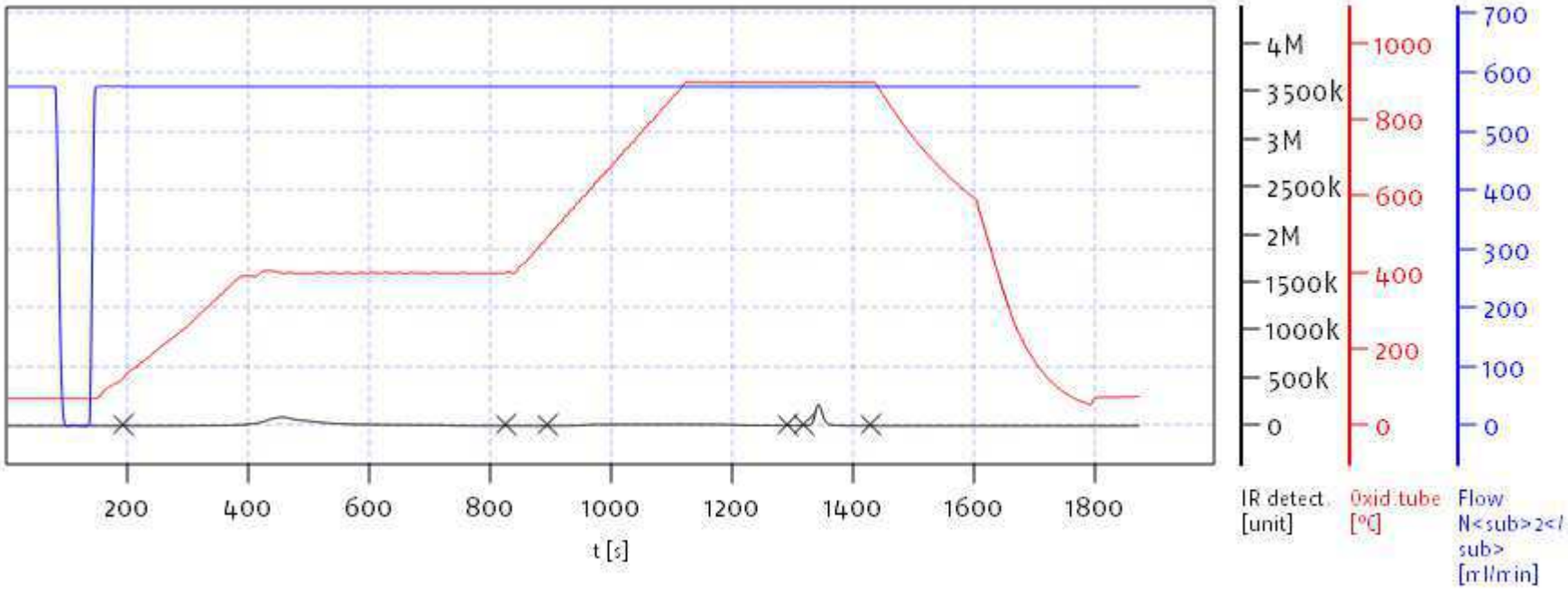
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	59	21G0330-03	566.50		1.00	CARBON	8/26/2021 1:07 AM	0.147	0.042	0.189	bl	400 378	151 075	129 909	0.9644	1.0000



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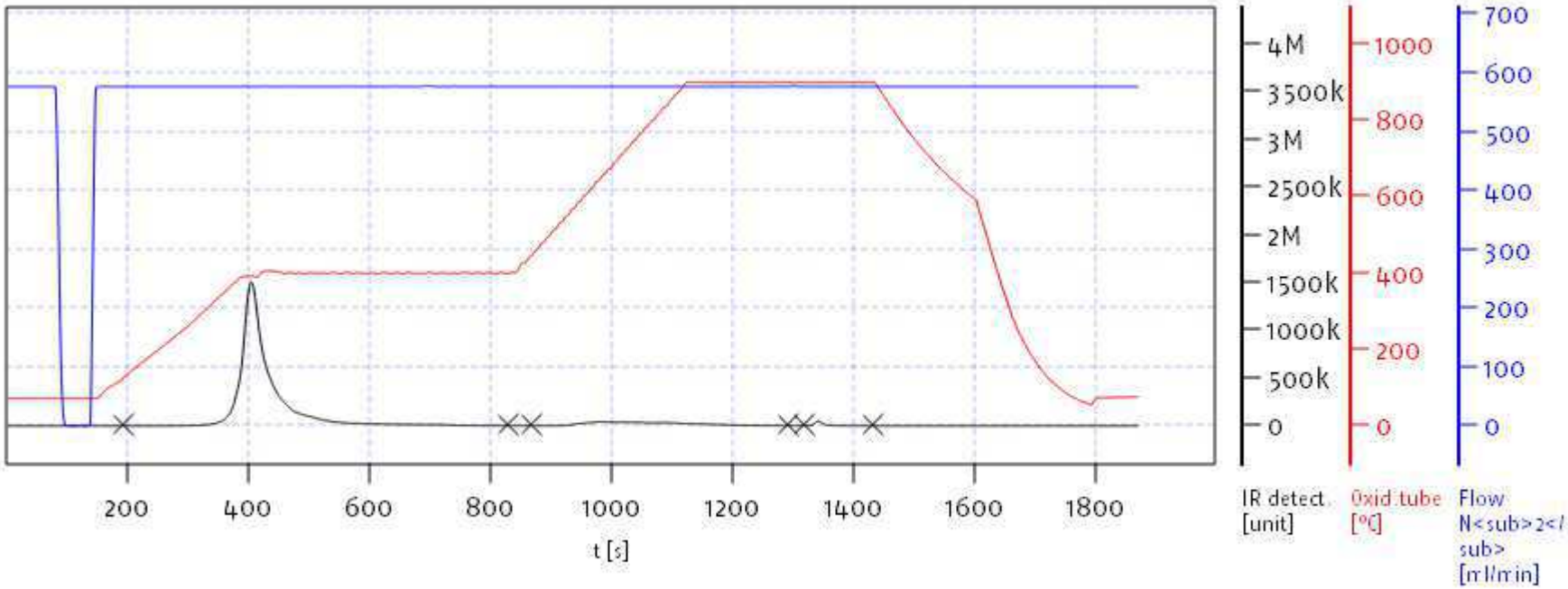
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	60	21H0072-13	522.70		1.00	CARBON	8/26/2021 1:39 AM	0.911	0.094	1.005	bl	2 912 900	303 233	33 518	0.9644	1.0000



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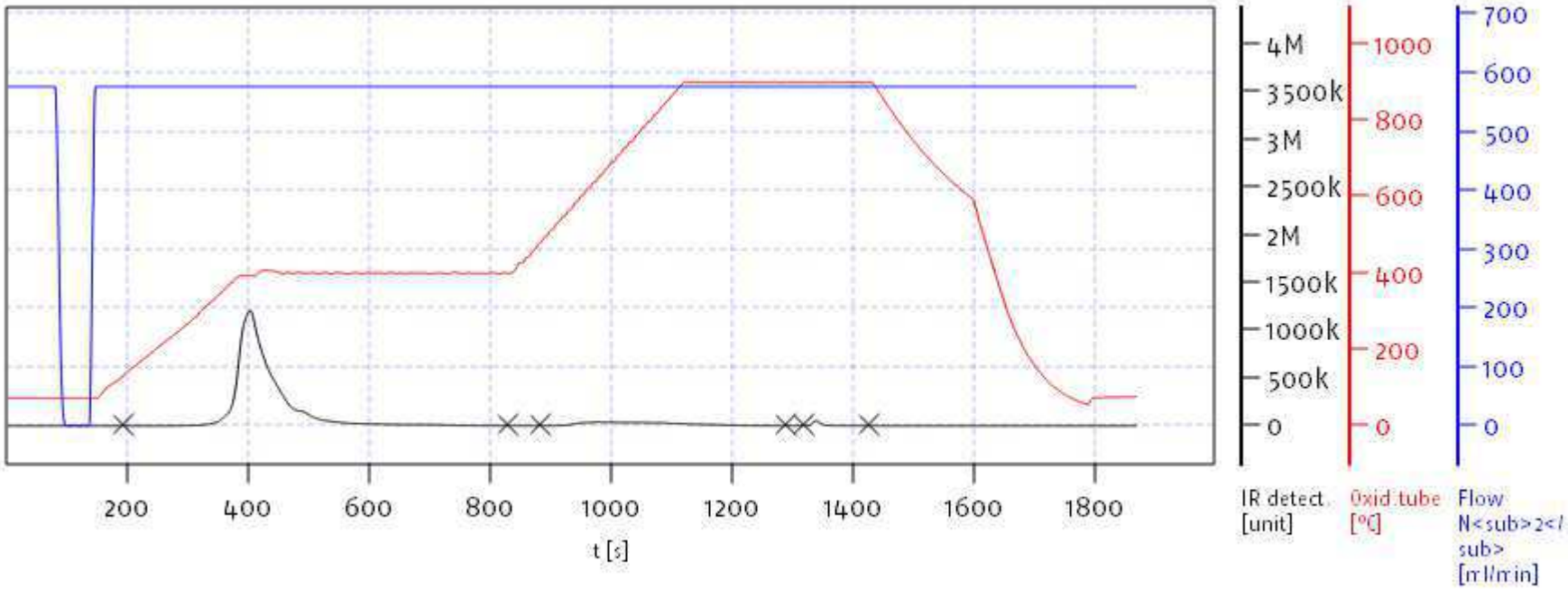
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	61	BJH0434-DUP1	541.00		1.00	CARBON	8/26/2021 2:11 AM	0.899	0.085	0.984	bl	2 974 090	282 649	34 924	0.9644	1.0000



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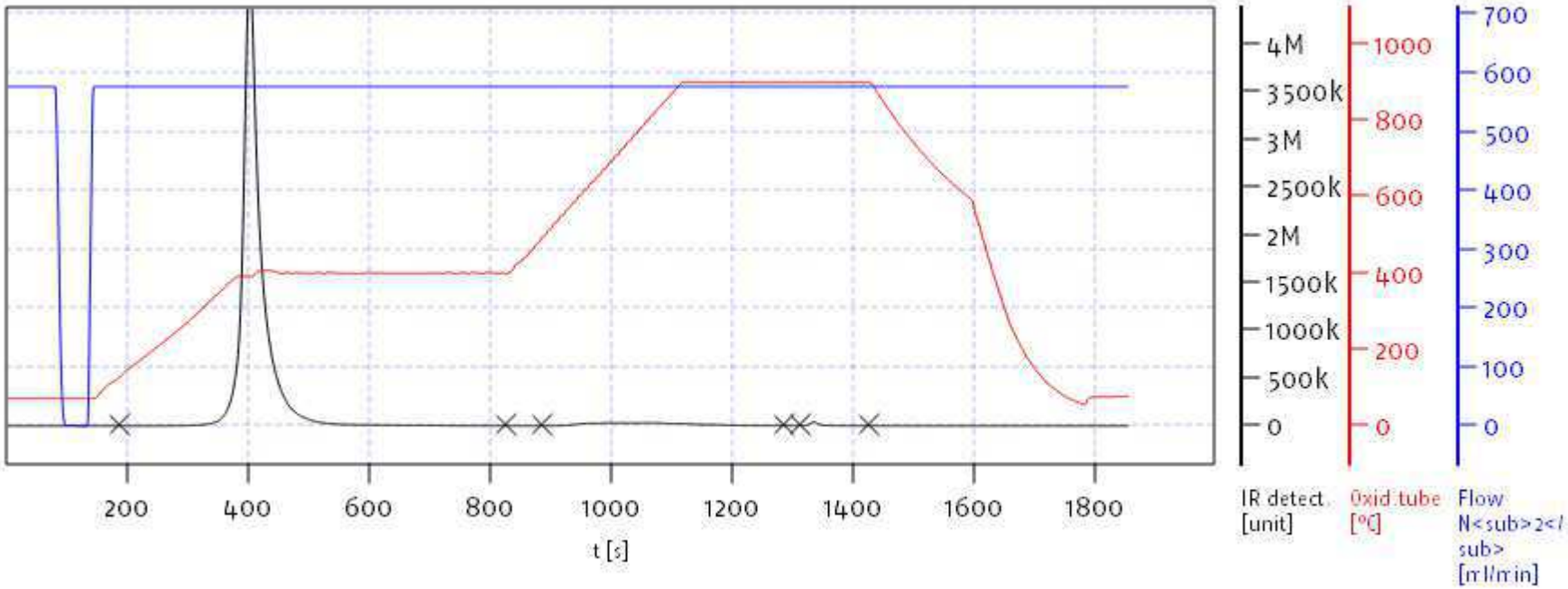
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	62	BJH0434-MS1	522.80	0.0110	1.00	CARBON	8/26/2021 2:42 AM	1.895	0.075	1.970	bl	6 077 010	242 912	29 009	0.9644	1.0000



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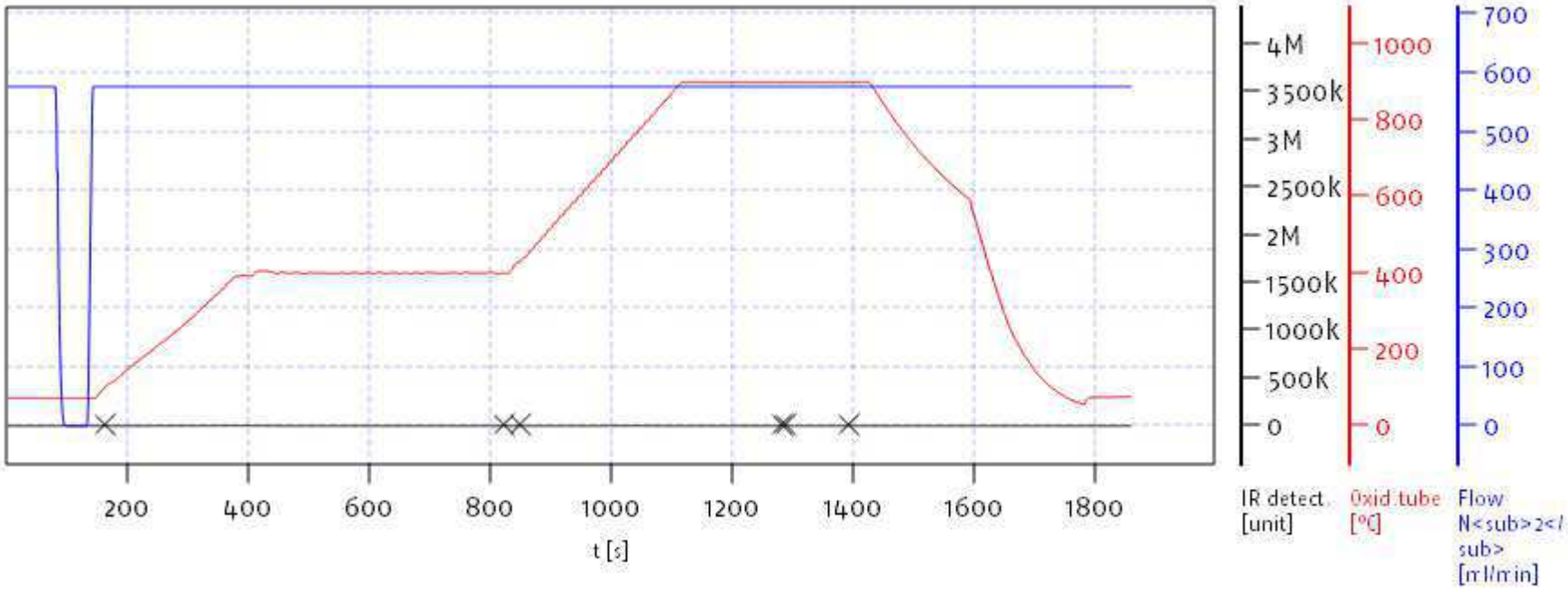
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	63	BLANK	1.00		1.00	CARBON	8/26/2021 3:13 AM	0.000	0.000	0.000	bl	13 366	5 962	130	0.9644	1.0000



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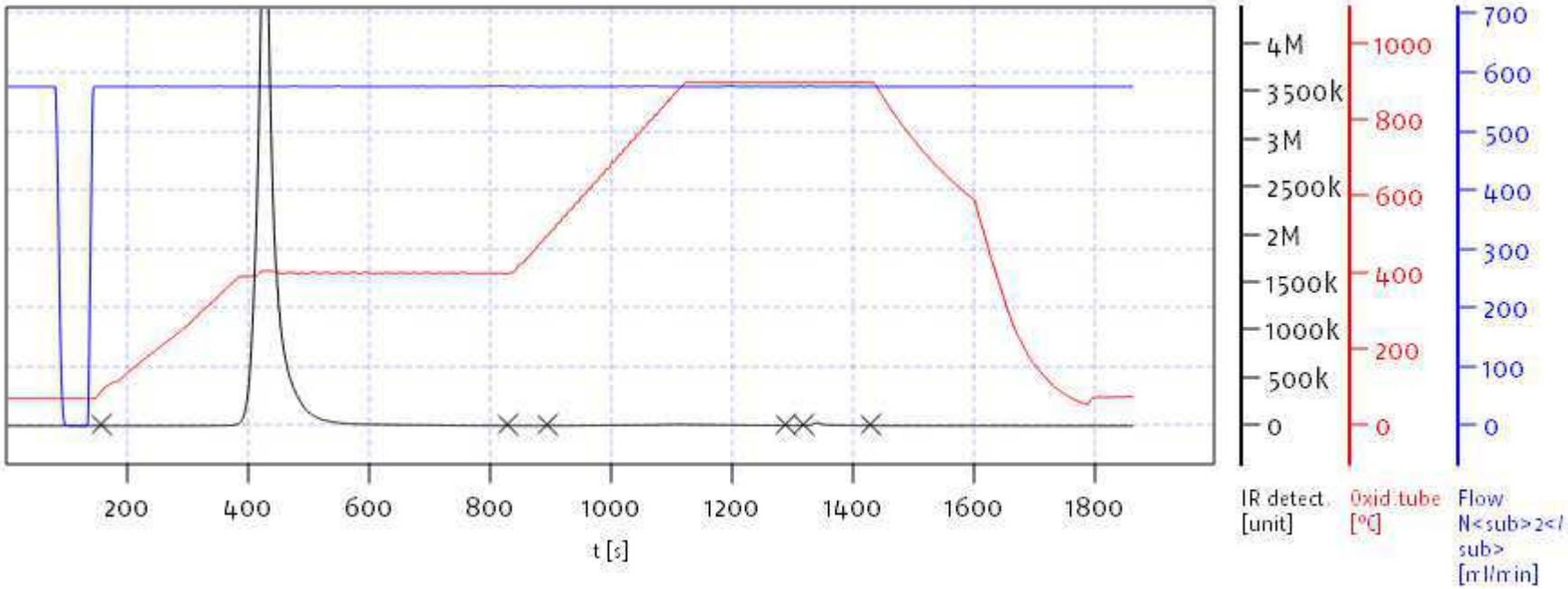
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	64	Dfactor	24.70		1.00	CARBON	8/26/2021 3:45 AM	44.611	0.662	45.273	bl	6 594 660	108 528	35 848	0.9874	1.0000



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Date: Tue Aug 31 14:32:59 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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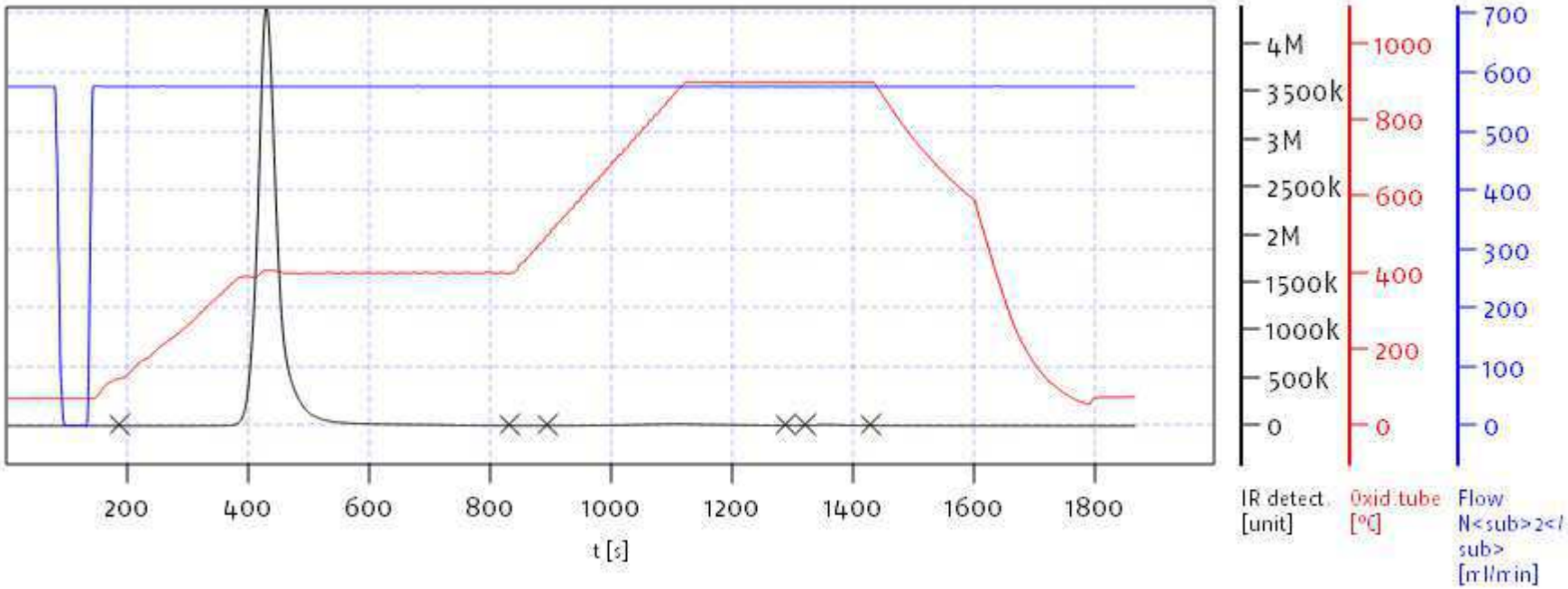
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	65	Dfactor	23.90		1.00	CARBON	8/26/2021 4:16 AM	44.558	0.869	45.427	bl	6 381 320	134 583	27 642	0.9875	1.0000



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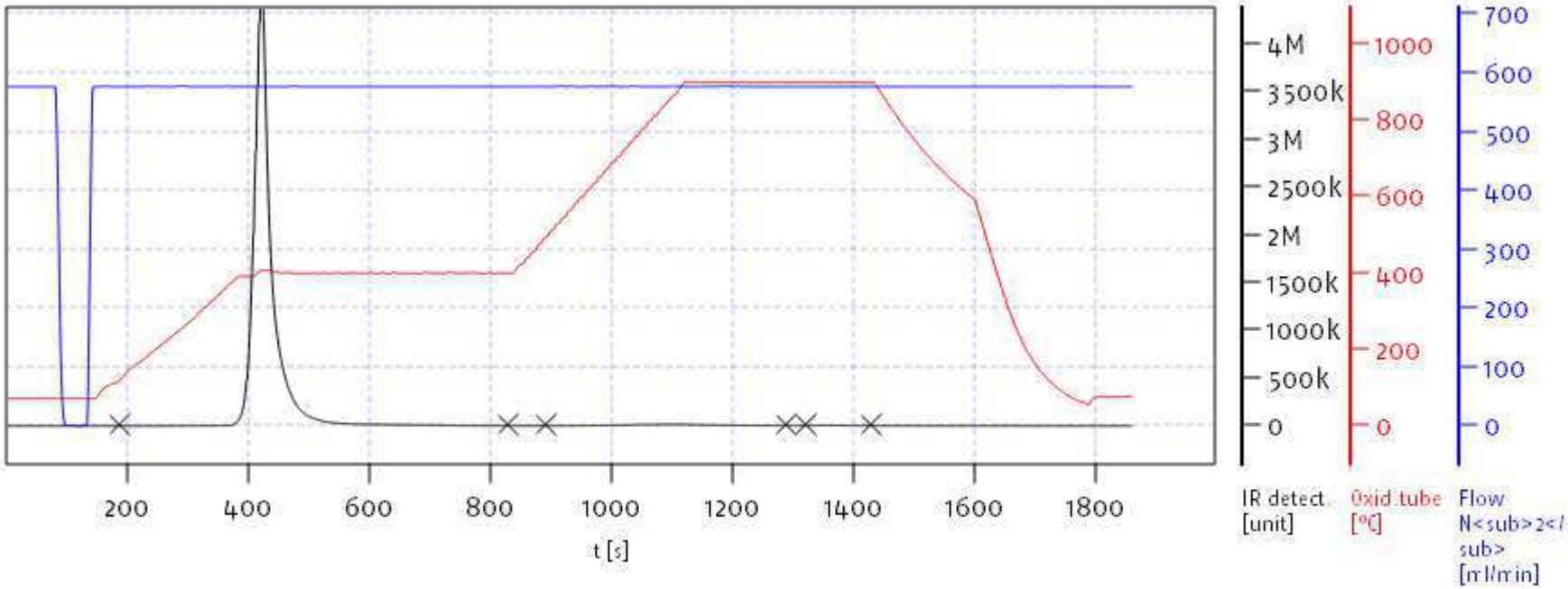
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	66	SJH0331-CCV2	21.00		1.00	CARBON	8/26/2021 4:48 AM	44.434	0.764	45.198	bl	5 602 300	106 661	16 290	0.9874	1.0000



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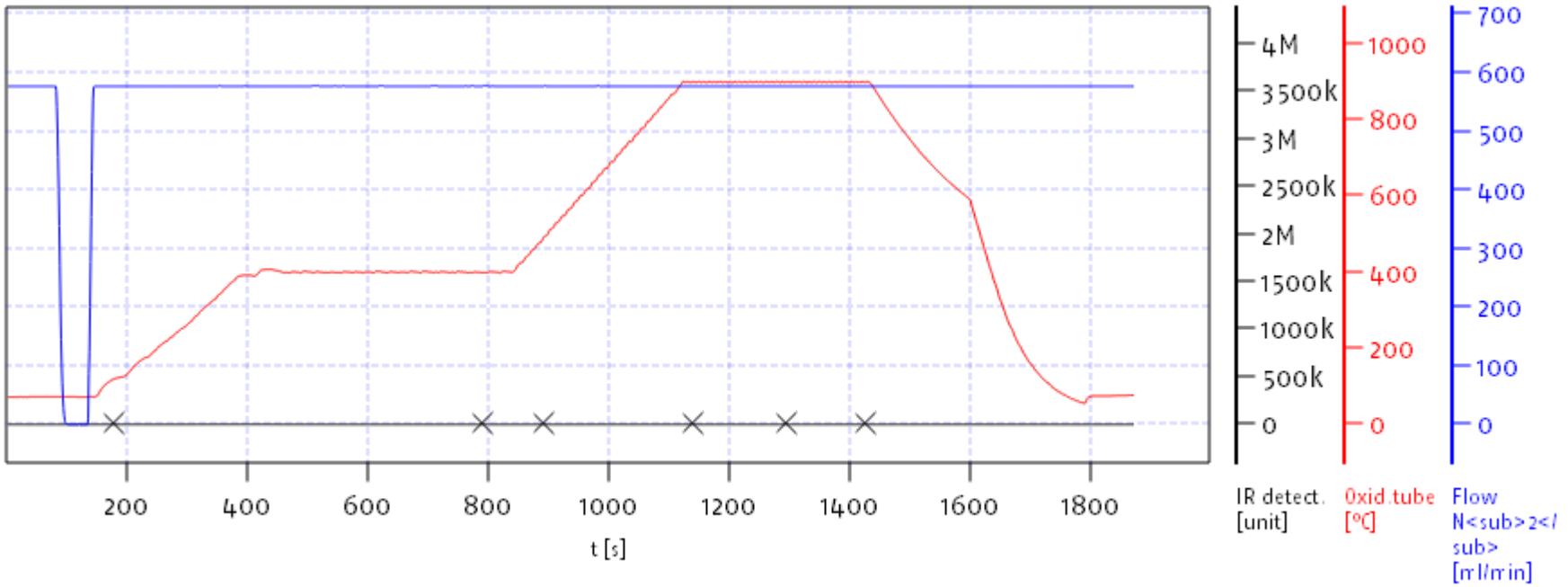
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	67	SJH0331-CCB2	533.80		1.00	CARBON	8/26/2021 5:20 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	6 424	425	331	0.9874	1.0000



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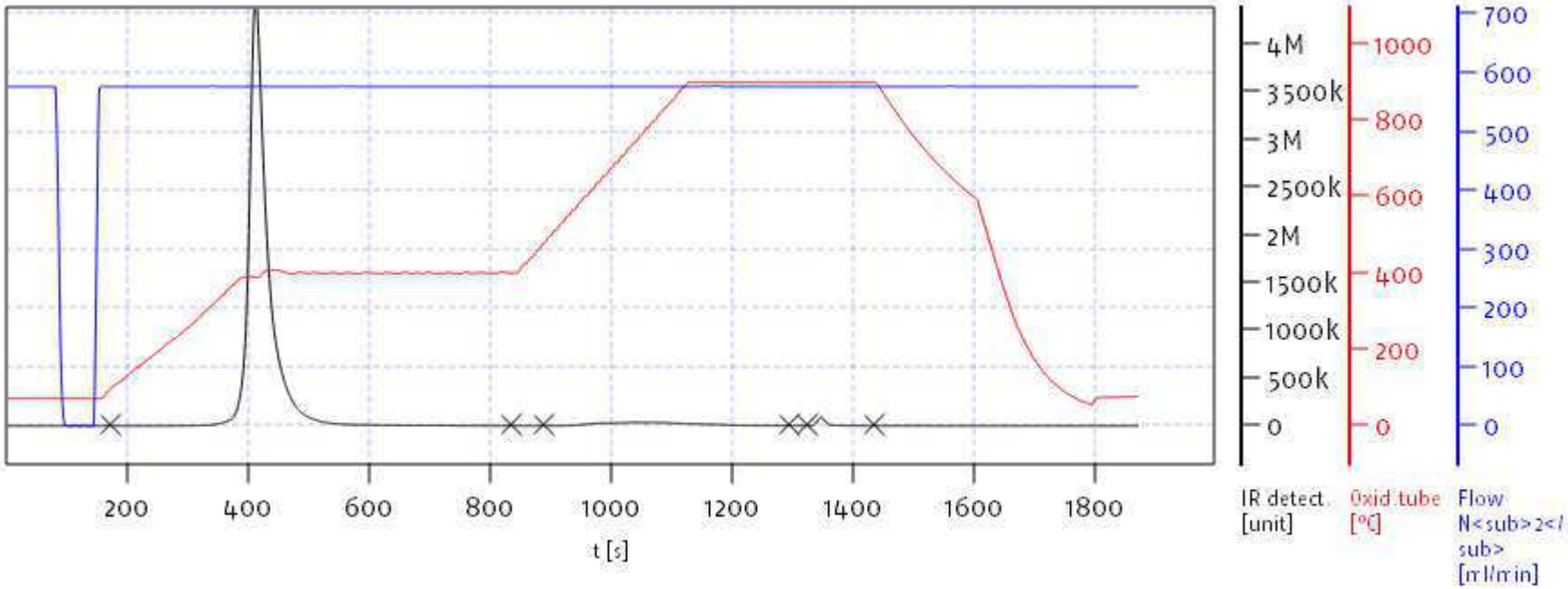
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	68	BJH0434-MSD1	528.30	0.0106	1.00	CARBON	8/26/2021 5:51 AM	1.899	0.078	1.977	bl	5 979 850	256 903	58 386	0.9874	1.0000



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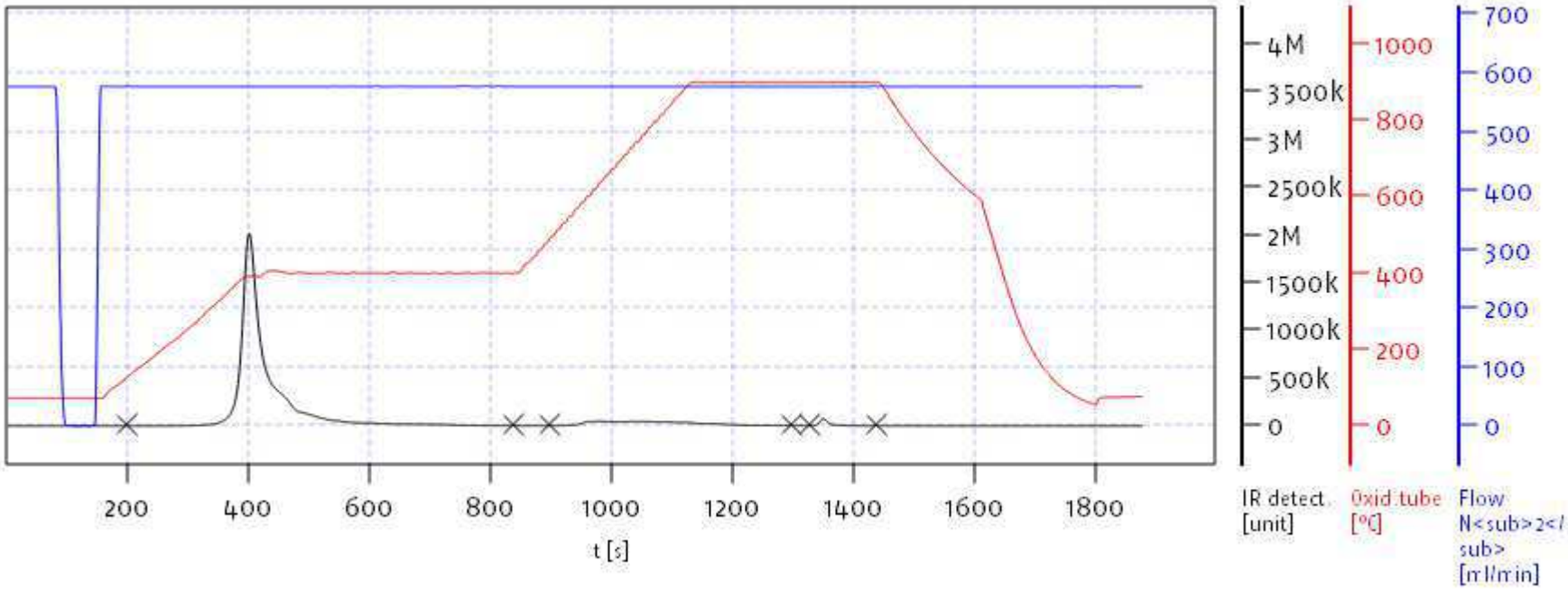
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	69	21H0072-21	518.60		1.00	CARBON	8/26/2021 6:23 AM	1.107	0.118	1.225	bl	3 412 750	373 576	53 031	0.9874	1.0000



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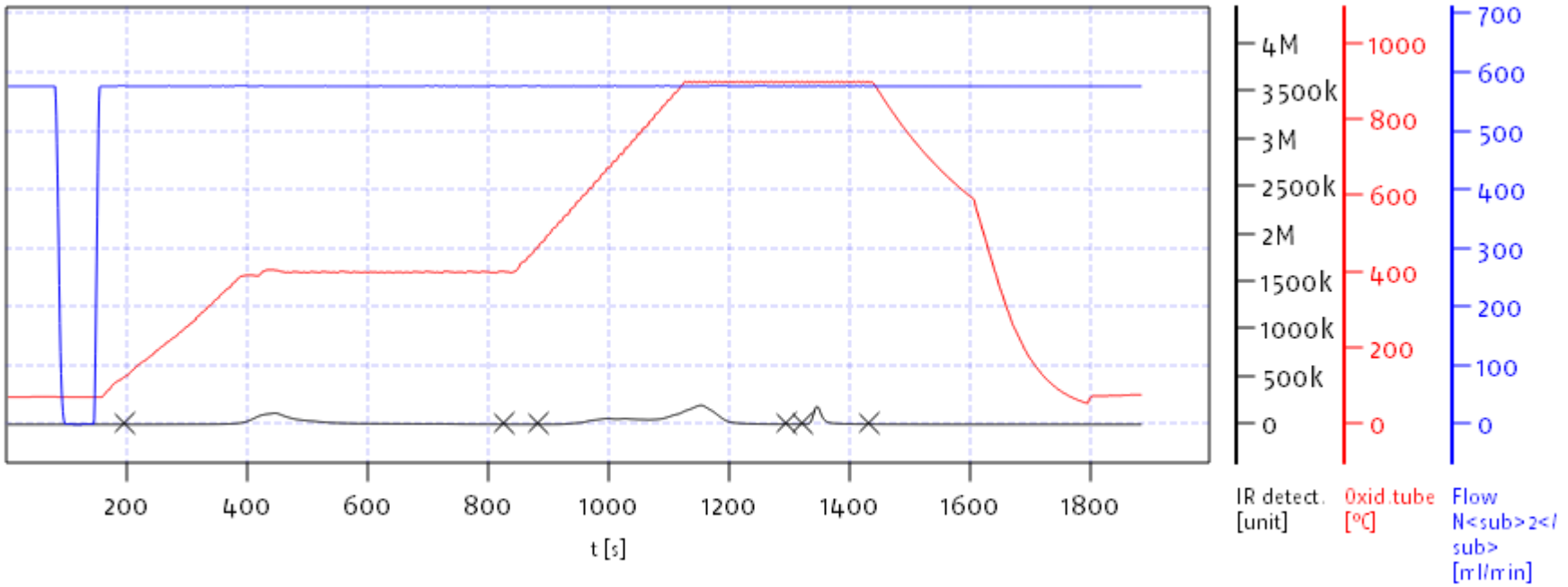
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
32	70	21H0187-07	530.70		1.00	CARBON	8/26/2021 6:55 AM	0.169	0.256	0.425	bl	429 842	816 538	128 915	0.9874	1.0000



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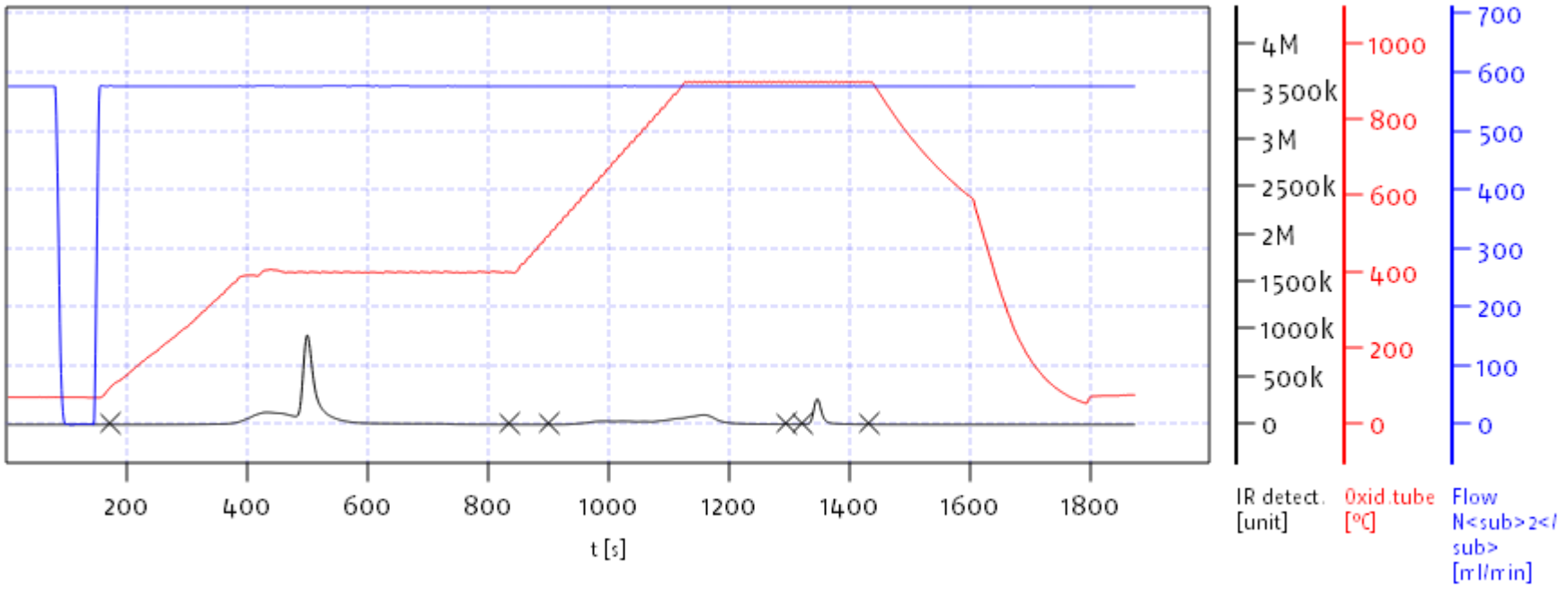
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
33	71	21H0187-08	554.70		1.00	CARBON	8/26/2021 7:27 AM	0.438	0.138	0.576	bl	1 311 880	465 029	167 039	0.9874	1.0000



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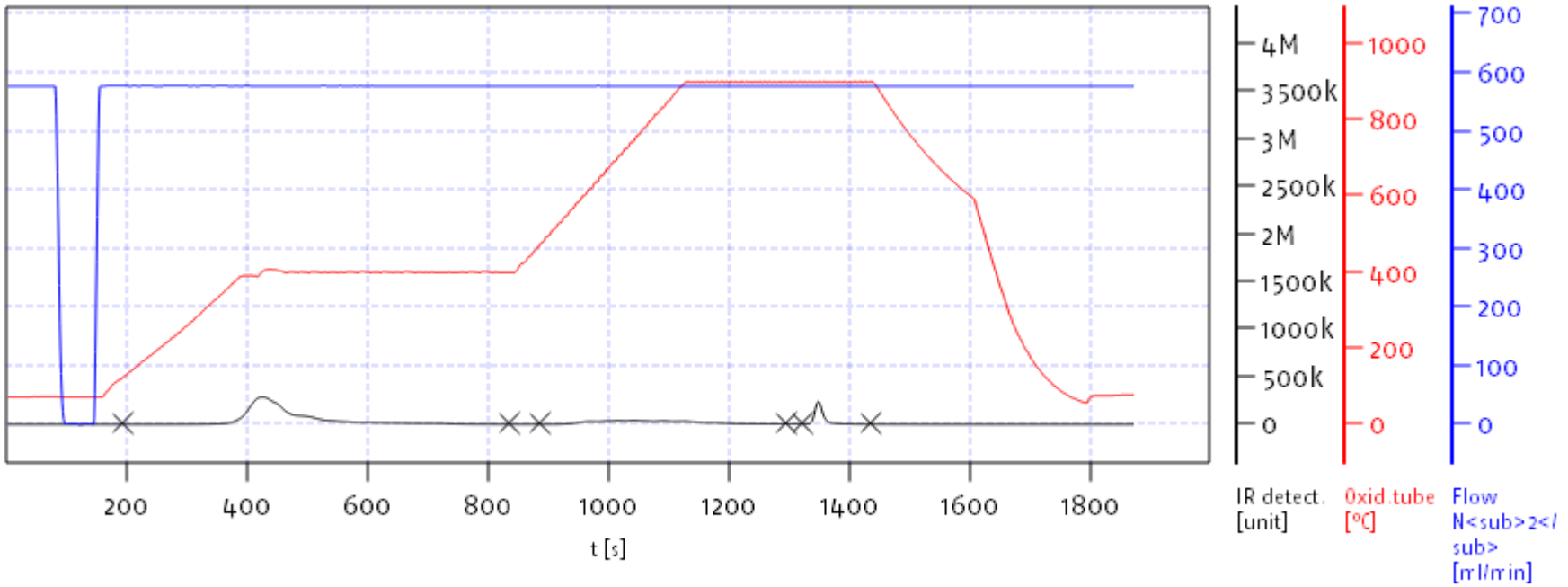
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
34	72	21H0187-09	521.80		1.00	CARBON	8/26/2021 7:58 AM	0.363	0.099	0.462	bl	1 003 630	317 868	152 982	0.9874	1.0000



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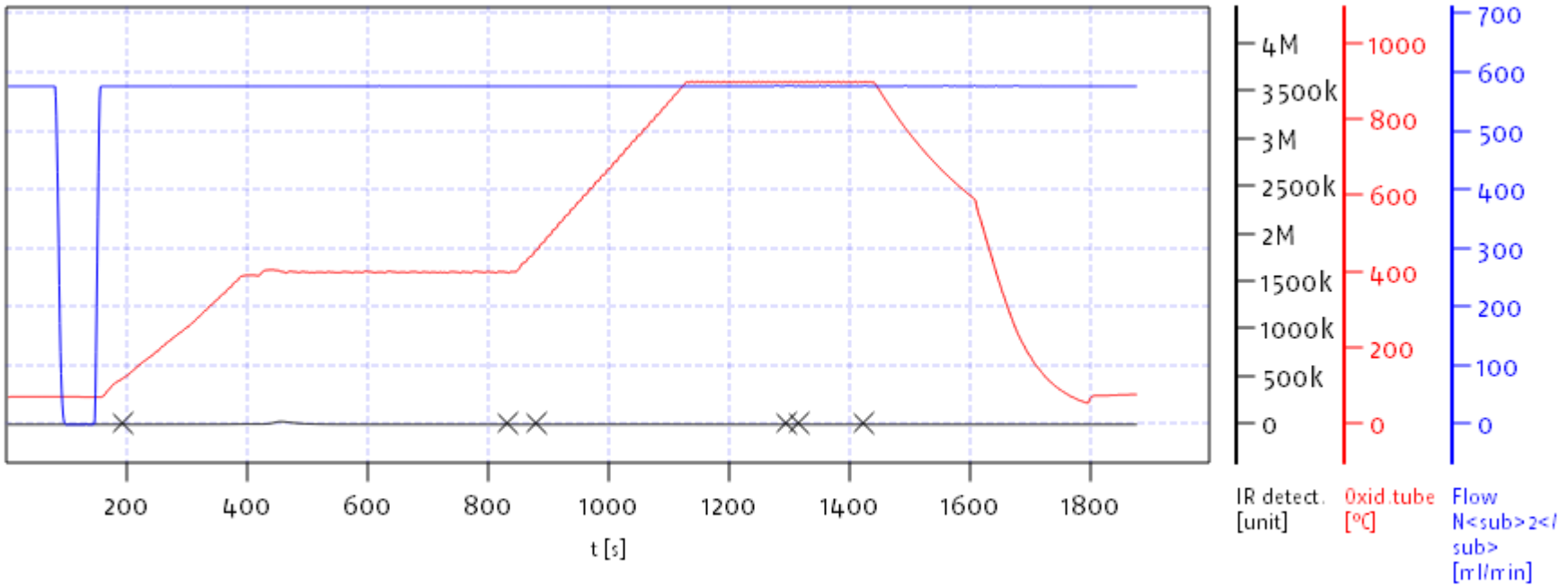
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
35	73	BJH0435-MRL1	524.20		1.00	CARBON	8/26/2021 8:30 AM	0.017	0.000	0.017	bl,C3u,C2u	66 010	6 866	196	0.9874	1.0000



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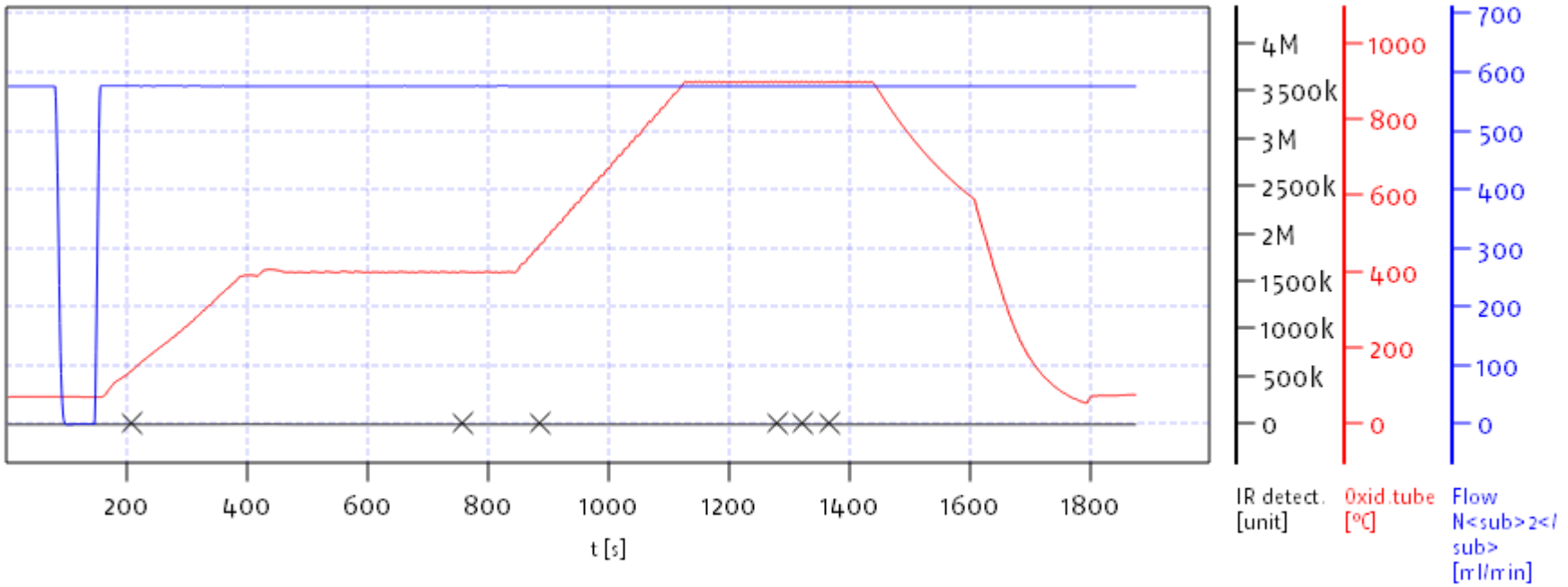
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
36	74	BJH0435-BLK1	502.50		1.00	CARBON	8/26/2021 9:02 AM	0.000	0.000	0.000	bl,C3u,C2u	10 640	1 609	83	0.9874	1.0000



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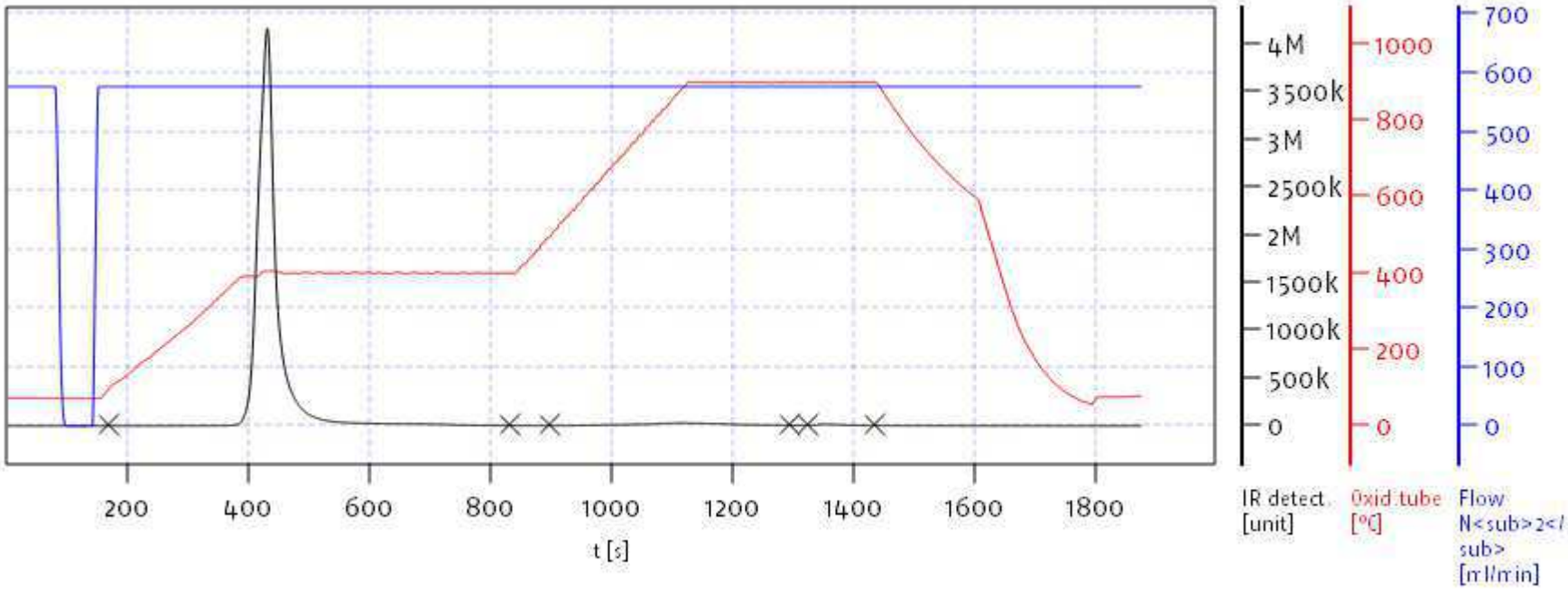
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
37	75	BJH0435-BS1	21.00		1.00	CARBON	8/26/2021 9:33 AM	43.894	1.611	45.505	bl	5 514 320	211 943	36 116	0.9874	1.0000



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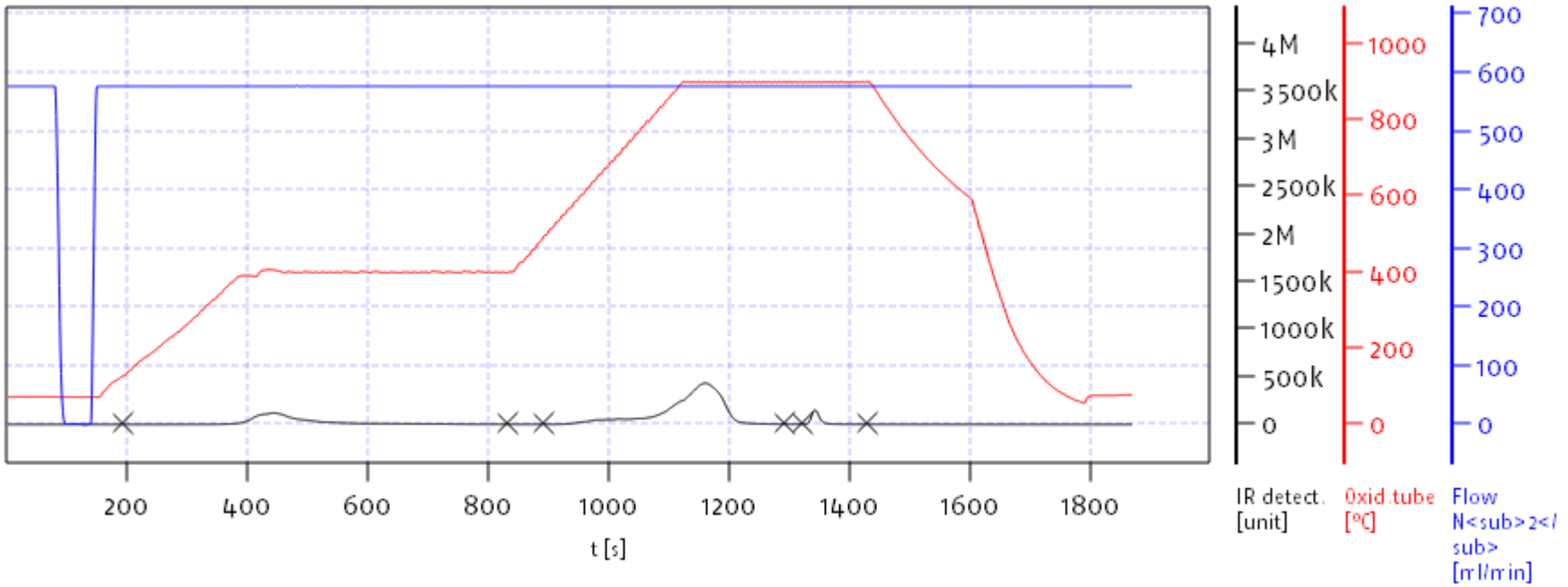
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
38	76	21H0089-01	581.50		1.00	CARBON	8/26/2021 10:05 AM	0.150	0.456	0.605	bl	451 971	1 580 450	91 893	0.9874	1.0000



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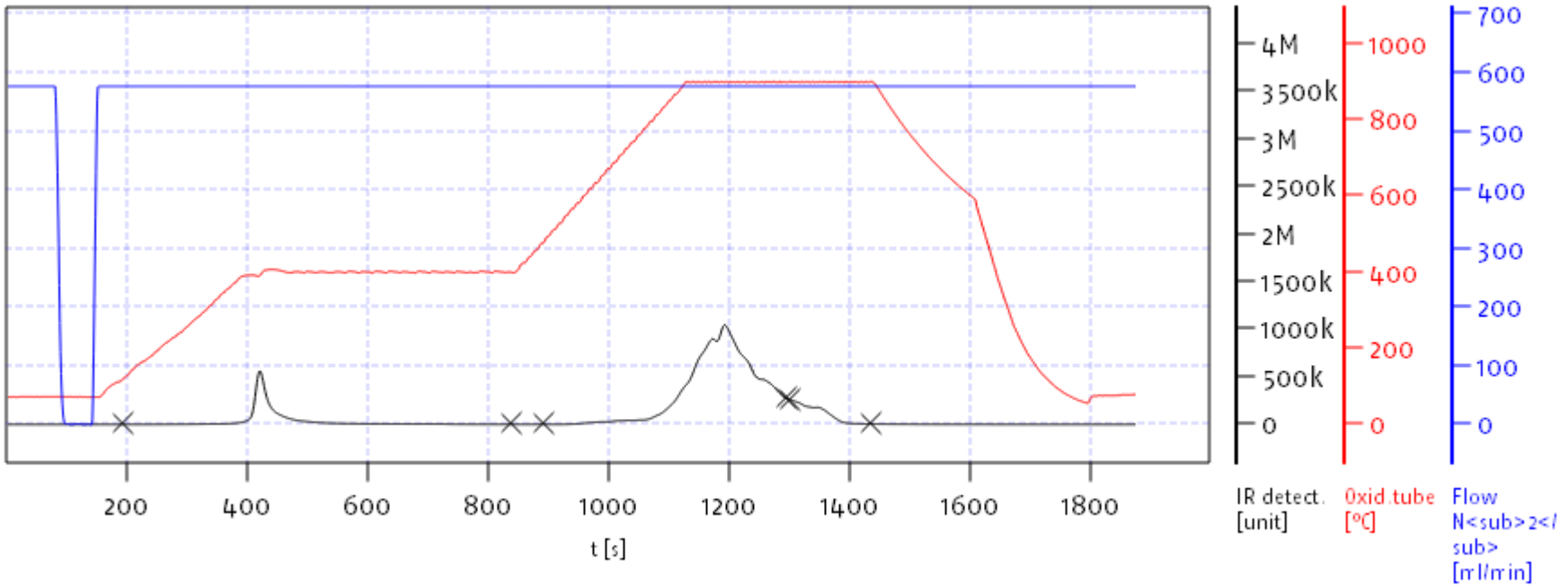
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
39	77	21H0089-02	385.10		1.00	CARBON	8/26/2021 10:37 AM	0.538	2.055	2.593	bl	724 446	4 697 810	535 223	0.9874	1.0000



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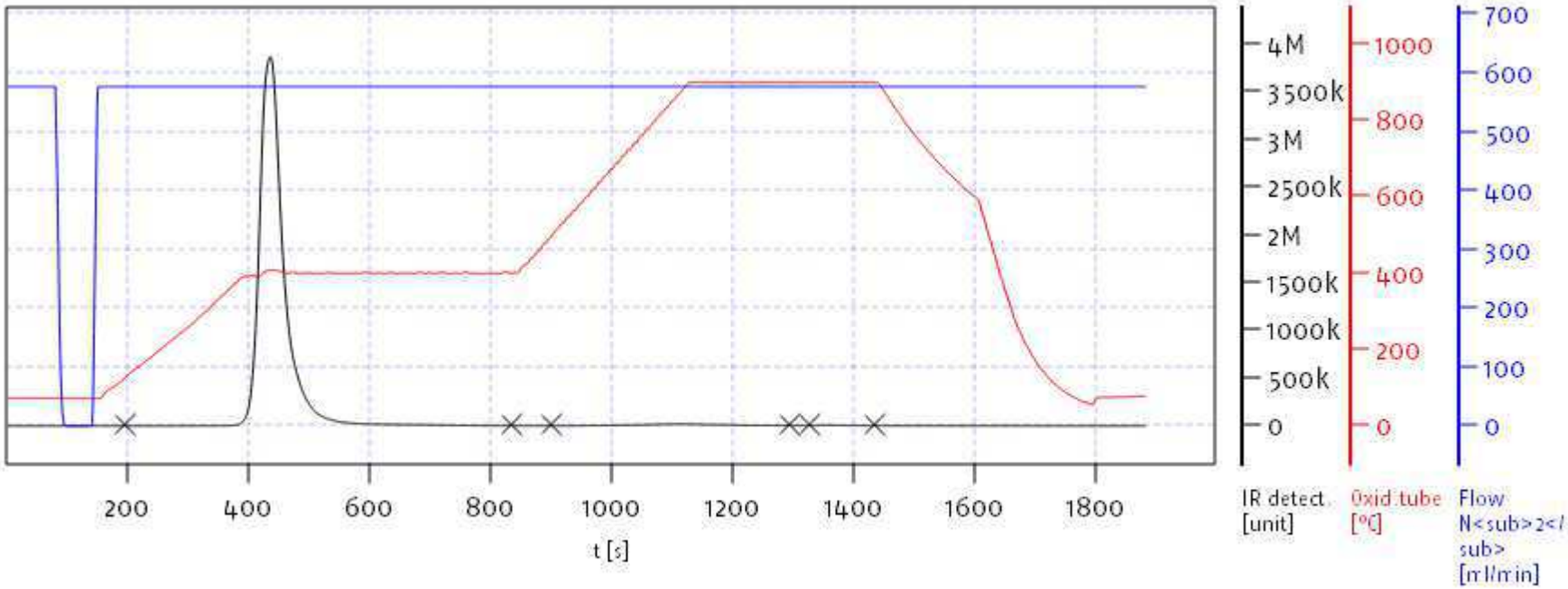
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
40	78	SJH0331-CCV3	25.10		1.00	CARBON	8/26/2021 11:09 AM	44.440	0.785	45.225	bl	6 692 970	128 338	18 911	0.9874	1.0000



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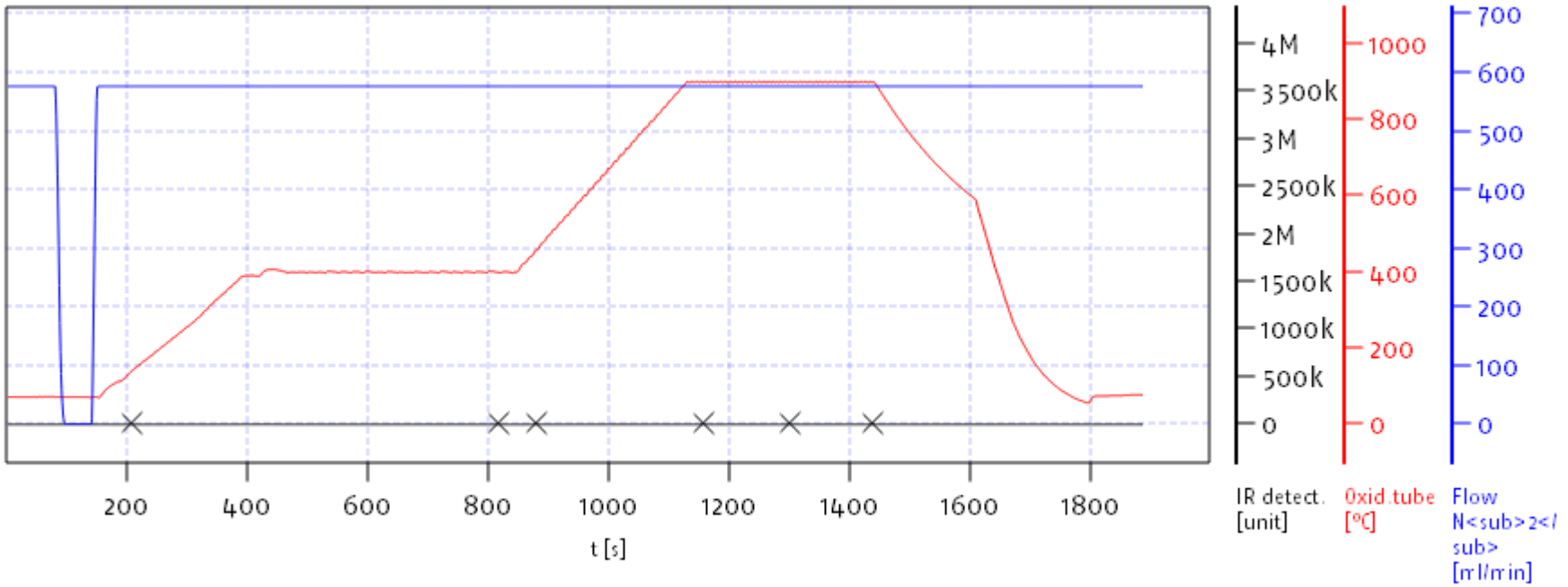
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
41	79	SJH0331-CCB3	569.10		1.00	CARBON	8/26/2021 11:41 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	2 768	263	150	0.9874	1.0000



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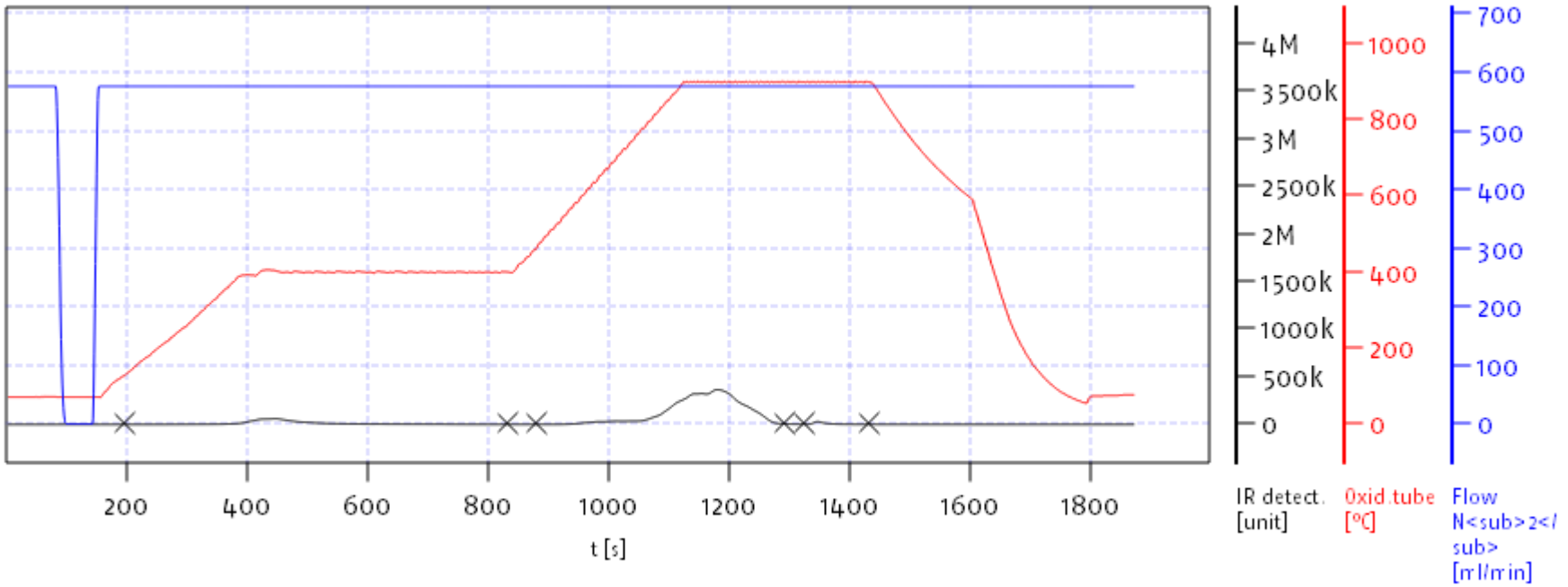
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
42	80	21H0089-03	516.00		1.00	CARBON	8/26/2021 12:12 PM	0.080	0.604	0.684	bl	242 131	1 857 580	27 577	0.9874	1.0000



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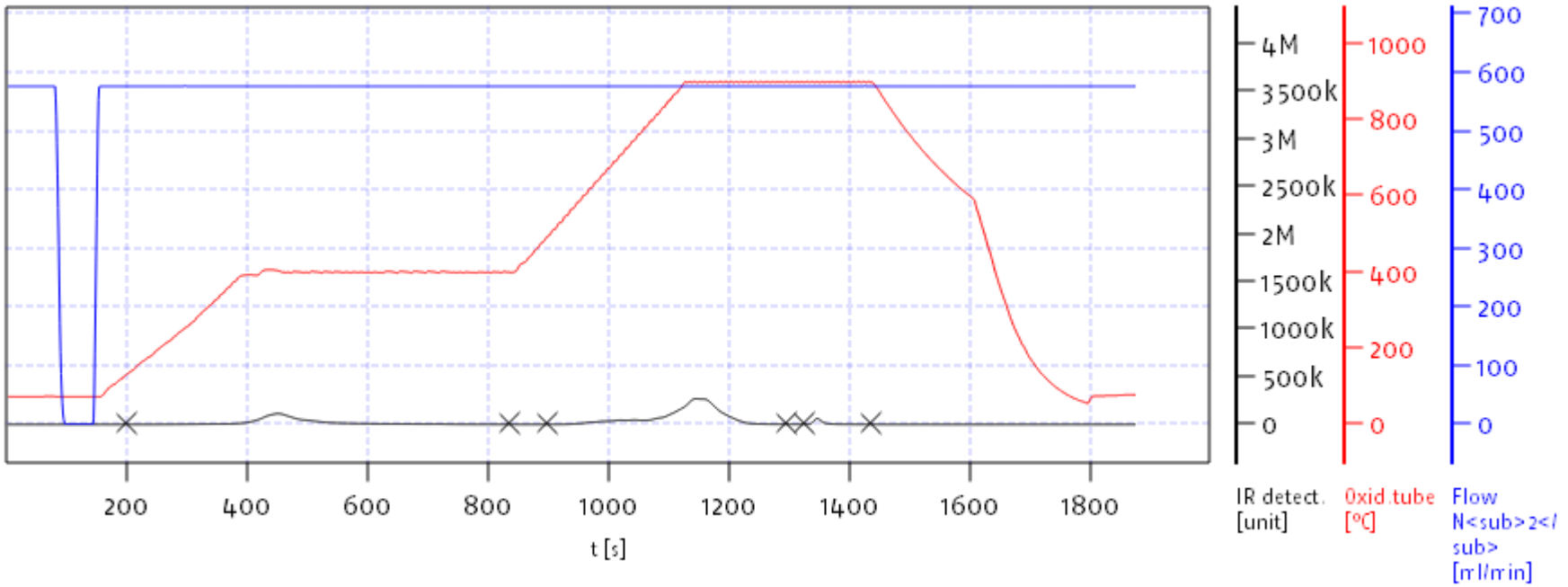
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
43	81	21H0089-04	552.80		1.00	CARBON	8/26/2021 12:44 PM	0.126	0.306	0.432	bl	397 649	1 014 540	42 472	0.9874	1.0000



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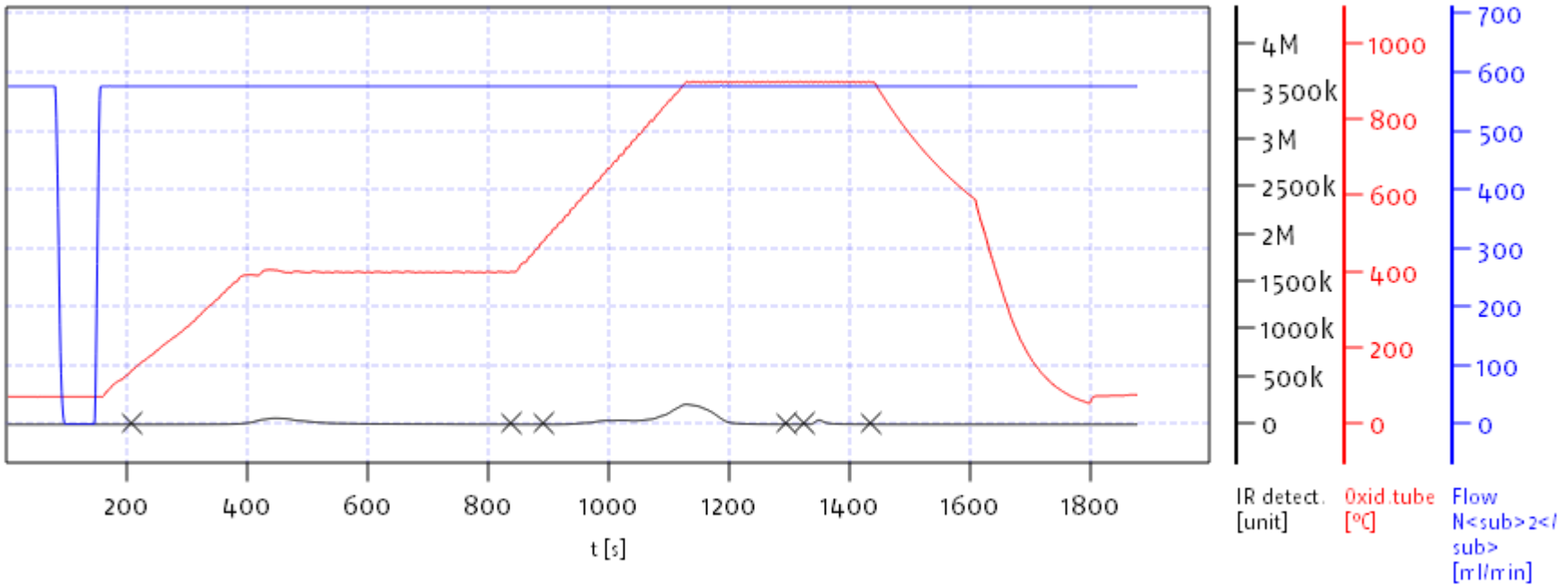
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
44	82	21H0089-05	564.10		1.00	CARBON	8/26/2021 1:16 PM	0.084	0.244	0.327	bl	266 687	825 800	39 239	0.9874	1.0000



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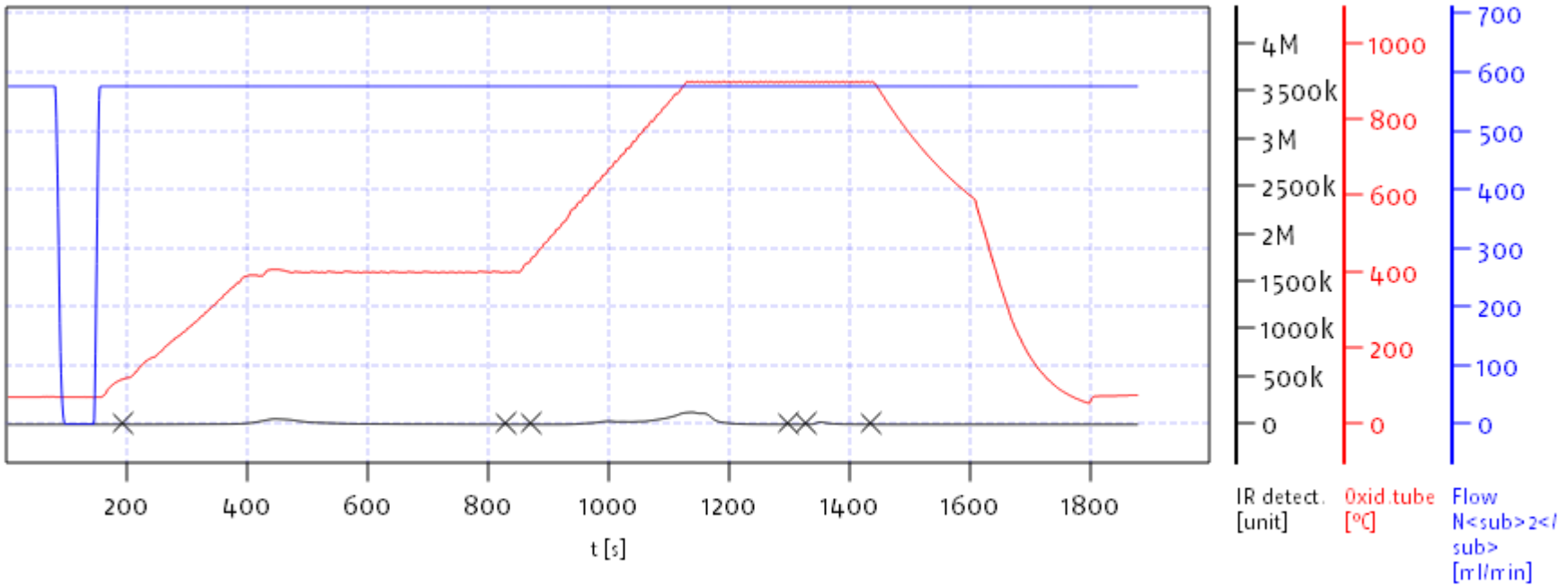
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
45	83	21H0089-06	588.50		1.00	CARBON	8/26/2021 1:48 PM	0.067	0.144	0.210	bl	233 472	511 885	24 682	0.9874	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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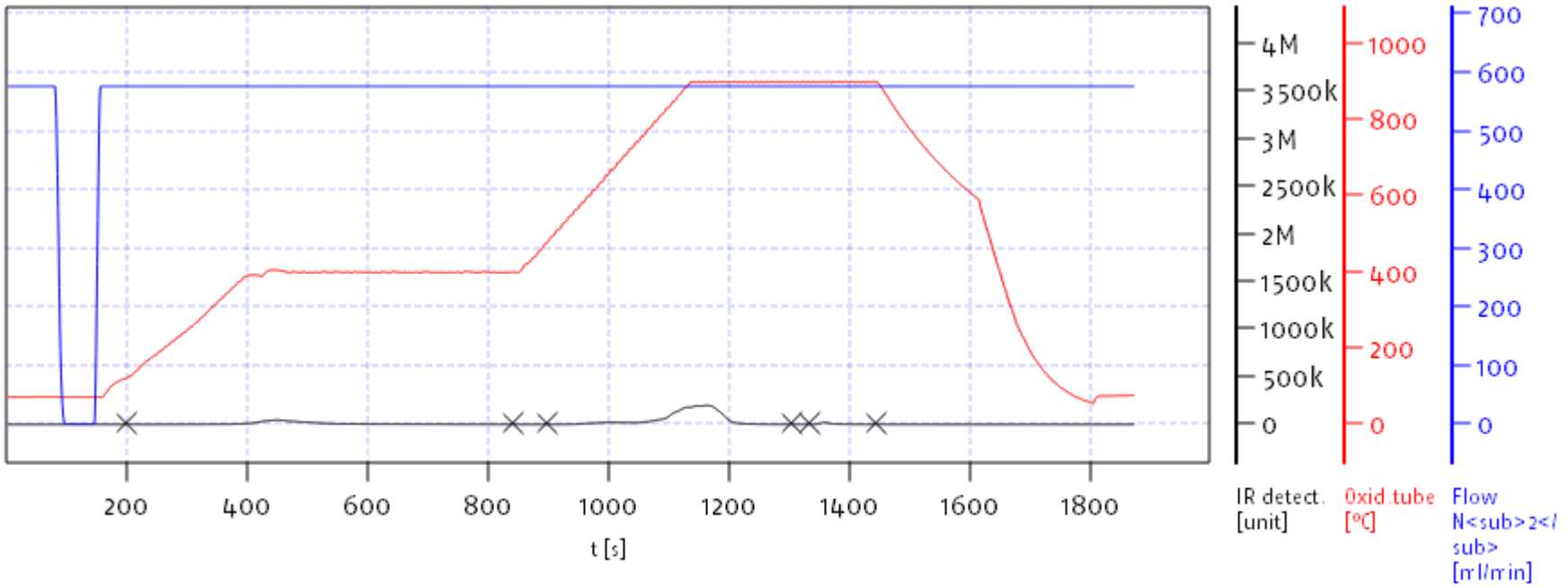
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
46	84	21H0089-07	361.00		1.00	CARBON	8/26/2021 2:19 PM	0.082	0.347	0.429	bl	182 745	753 491	17 851	0.9874	1.0000



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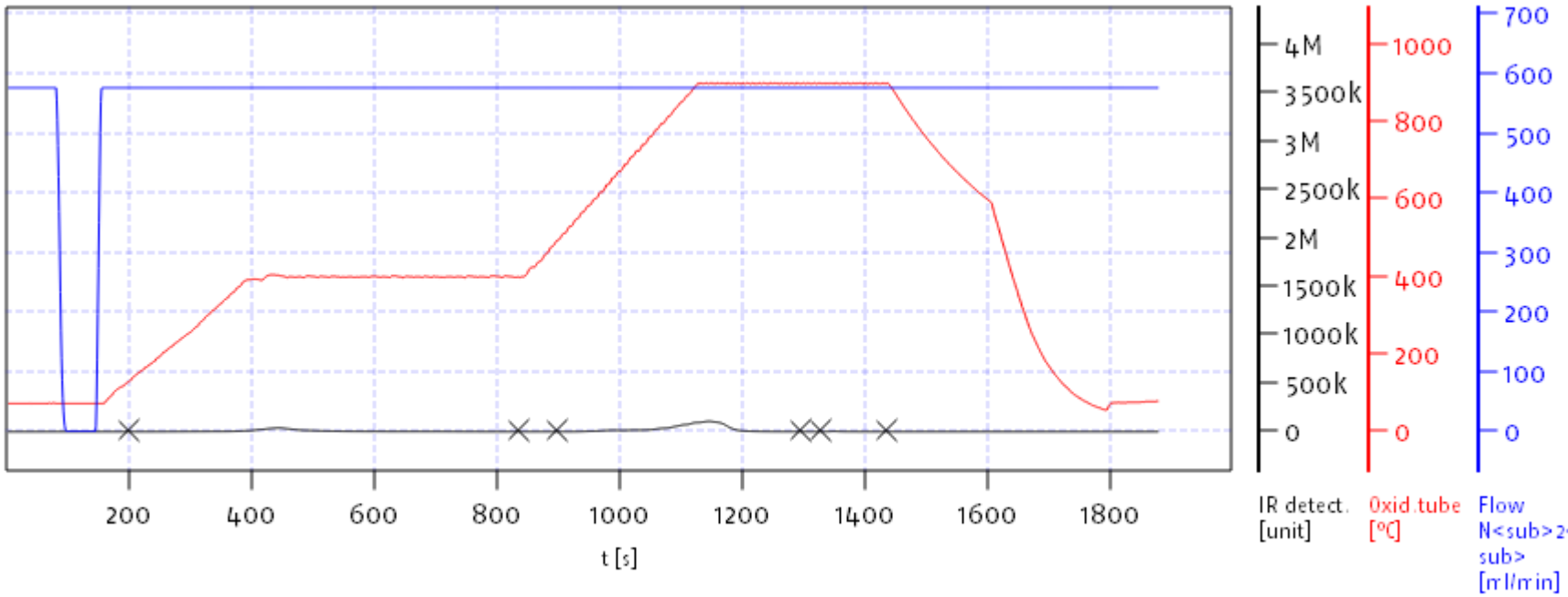
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
47	85	21H0089-08	317.80		1.00	CARBON	8/26/2021 2:51 PM	0.067	0.212	0.279	bl,C2u	138 785	410 820	4 329	0.9874	1.0000



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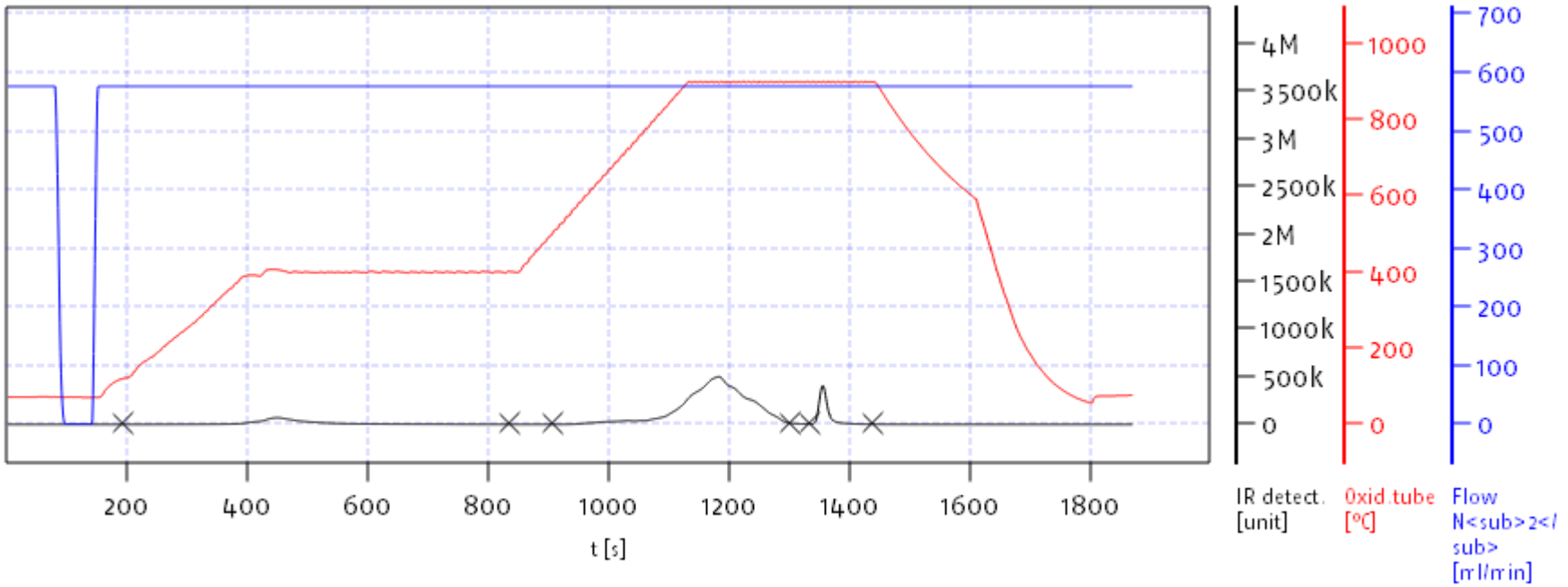
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
48	86	21H0089-09	632.60		1.00	CARBON	8/26/2021 3:23 PM	0.131	0.591	0.722	bl	257 988	2 225 310	257 517	0.9874	1.0000



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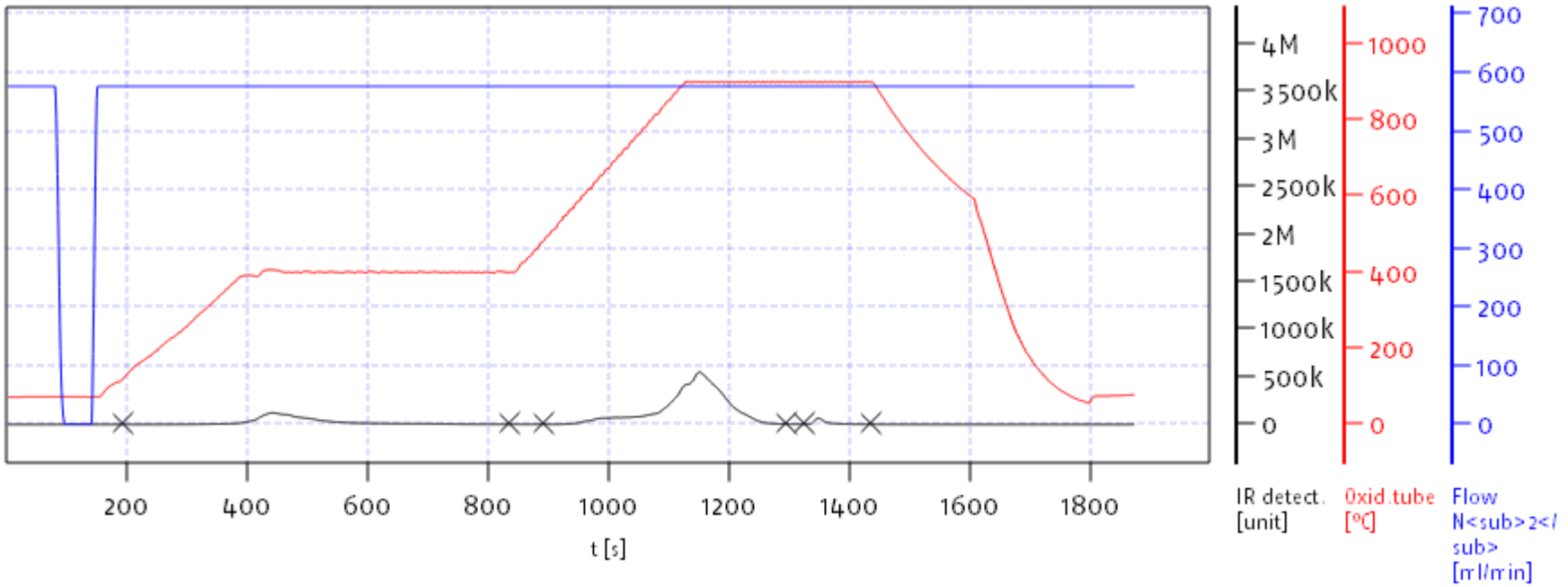
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
49	87	21H0089-10	546.30		1.00	CARBON	8/26/2021 3:54 PM	0.167	0.670	0.837	bl	513 495	2 178 030	57 477	0.9874	1.0000



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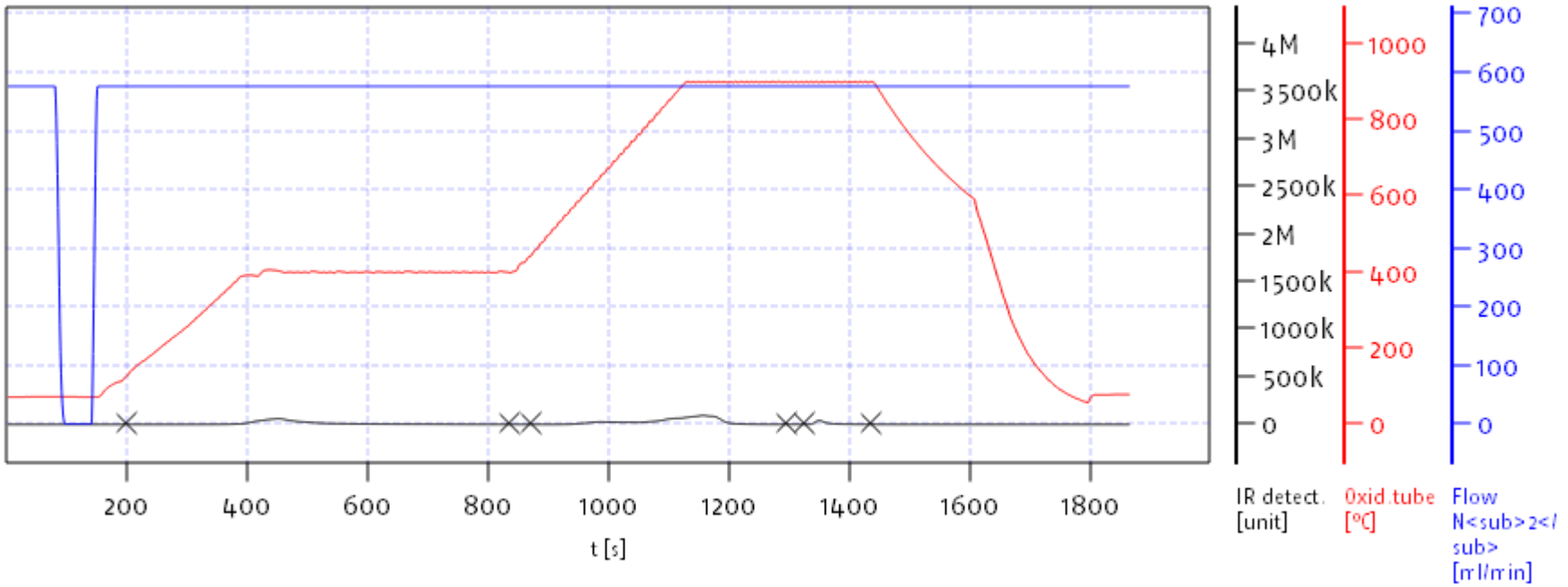
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
50	88	BJH0435-DUP1	576.50		1.00	CARBON	8/26/2021 4:26 PM	0.068	0.121	0.189	bl	221 089	424 708	36 187	0.9874	1.0000



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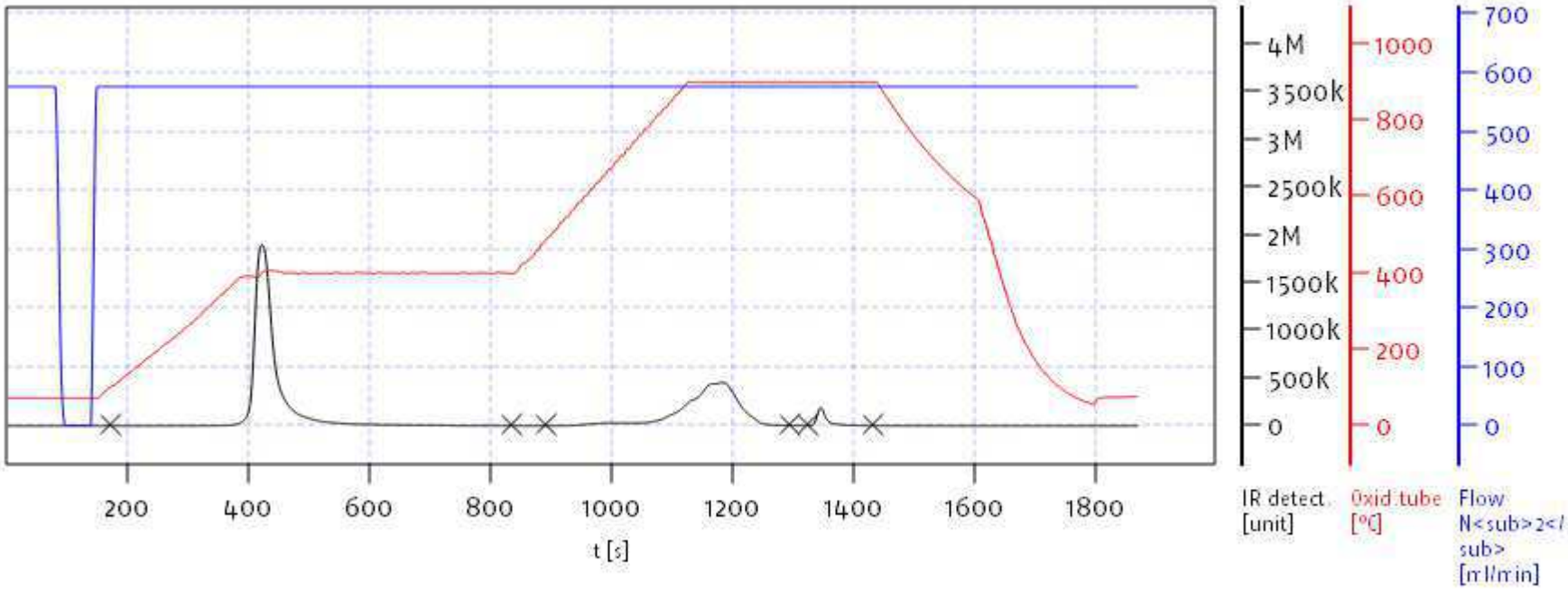
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
51	89	BJH0435-MS1	537.40	0.0097	1.00	CARBON	8/26/2021 4:58 PM	0.883	0.541	1.424	bl	2 731 800	1 732 510	134 777	0.9874	1.0000



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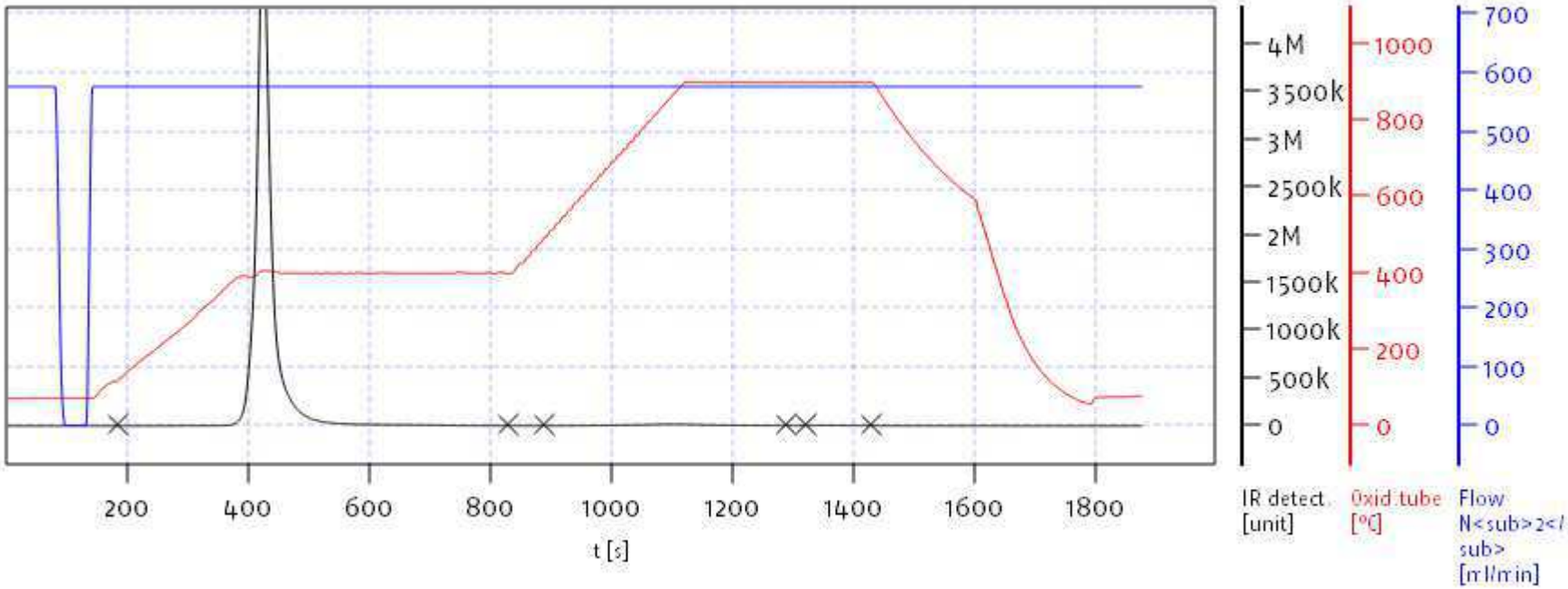
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
52	1	SJH0331-CCV4	20.80		1.00	CARBON	8/26/2021 5:29 PM	45.104	0.777	45.882	bl	5 633 340	107 423	15 635	0.9874	1.0000



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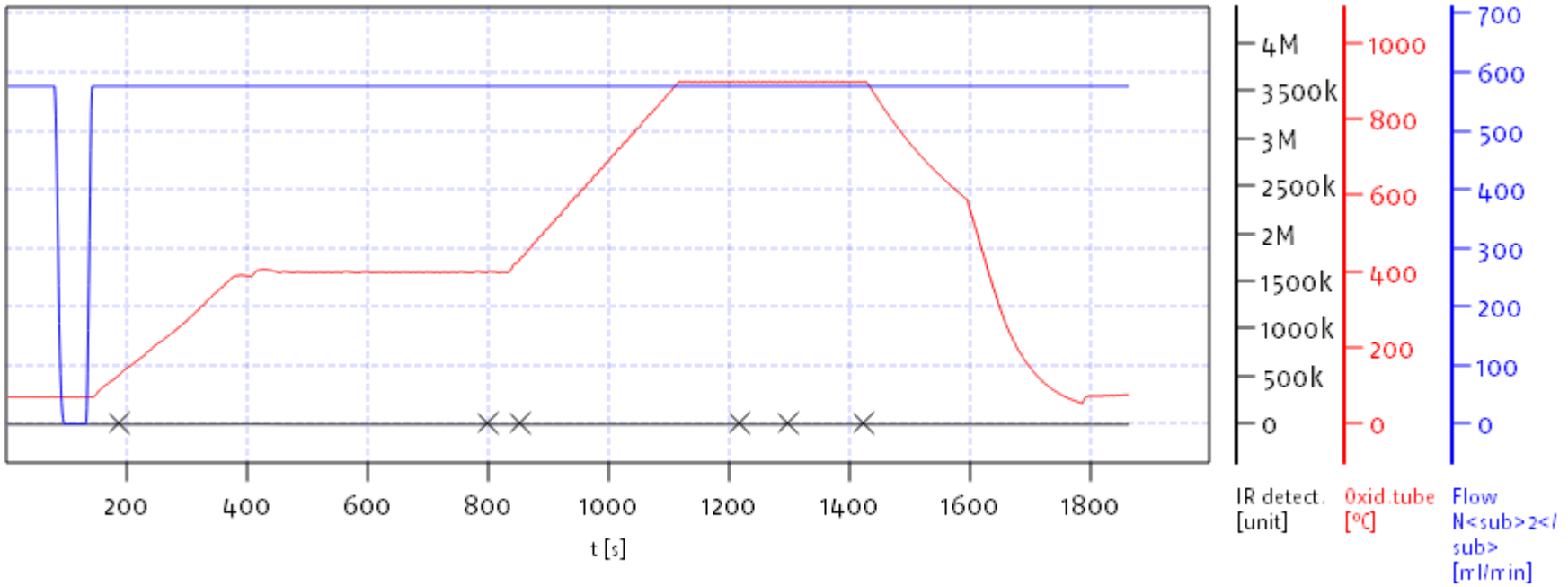
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
53	2	SJH0331-CCB4	501.80		1.00	CARBON	8/26/2021 6:01 PM	0.000	0.000	0.000	bl,C3u,C2u	9 295	757	141	0.9874	1.0000



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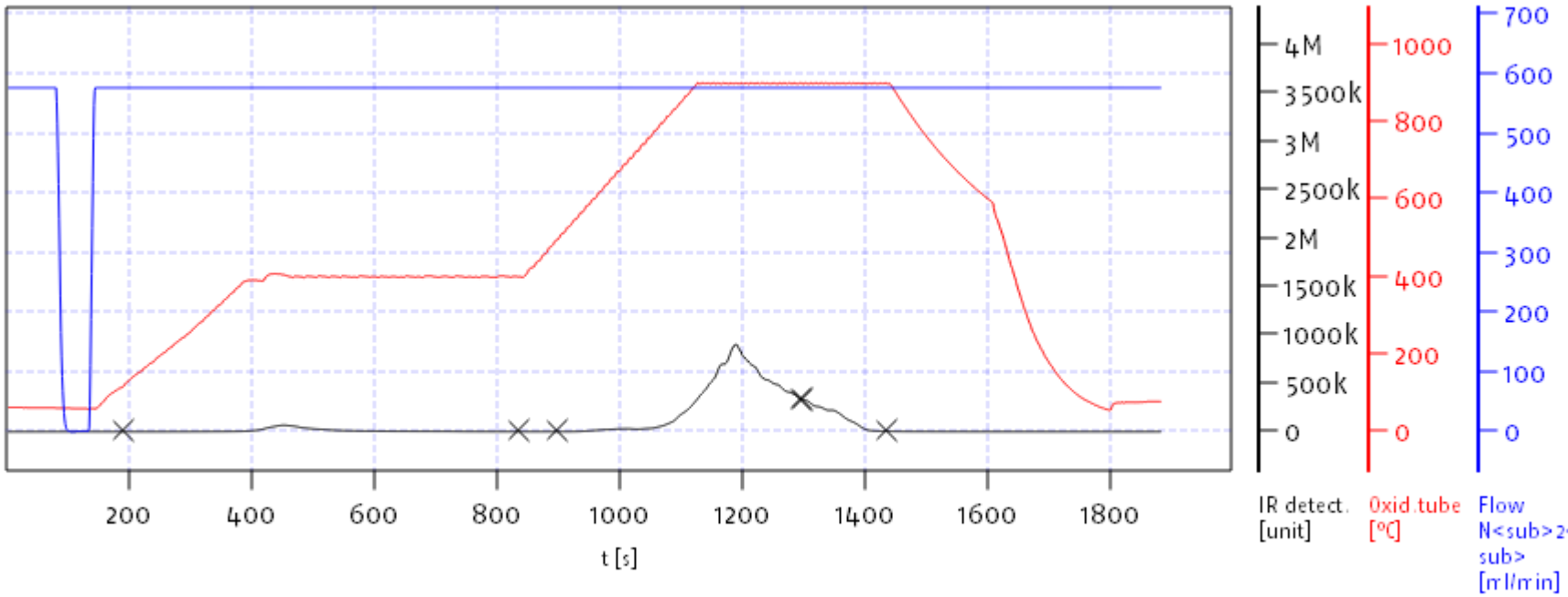
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
54	3	21H0089-11	509.70		1.00	CARBON	8/26/2021 6:45 PM	0.313	1.378	1.691	bl	249 160	4 170 120	721 848	0.9874	1.0000



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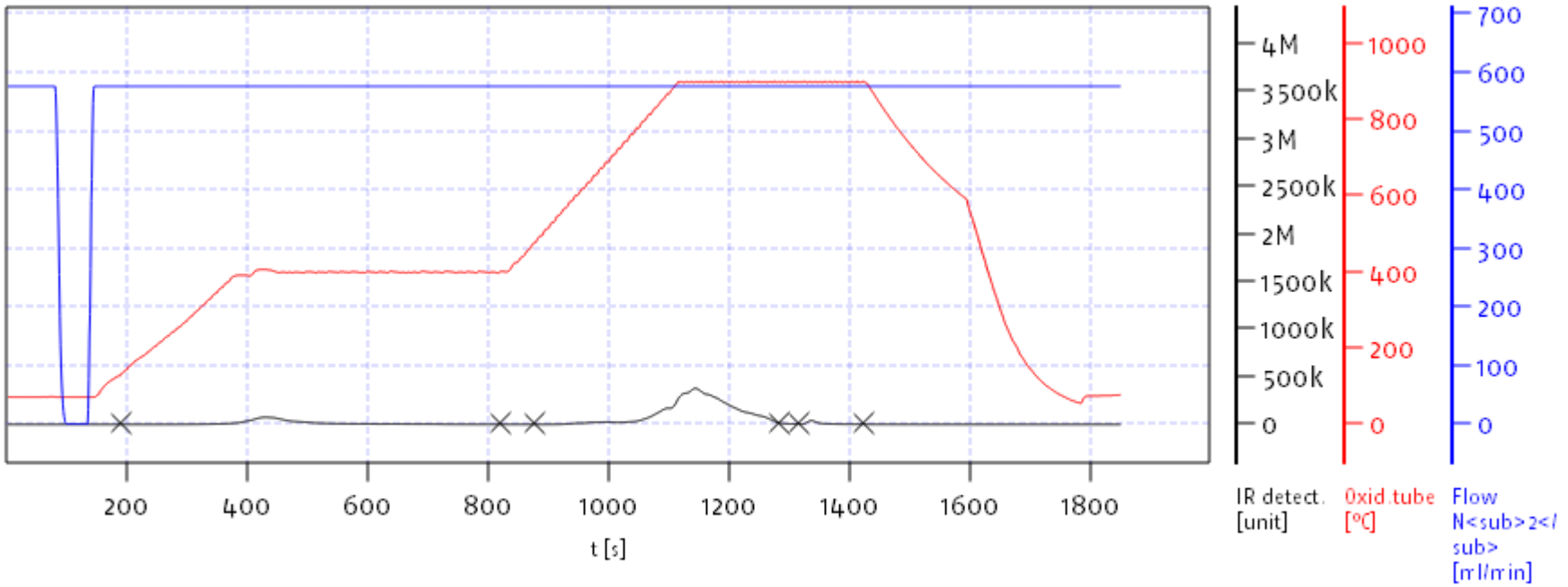
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
55	4	21H0089-12	594.10		1.00	CARBON	8/26/2021 7:17 PM	0.084	0.483	0.567	bl	282 821	1 711 920	37 656	0.9874	1.0000



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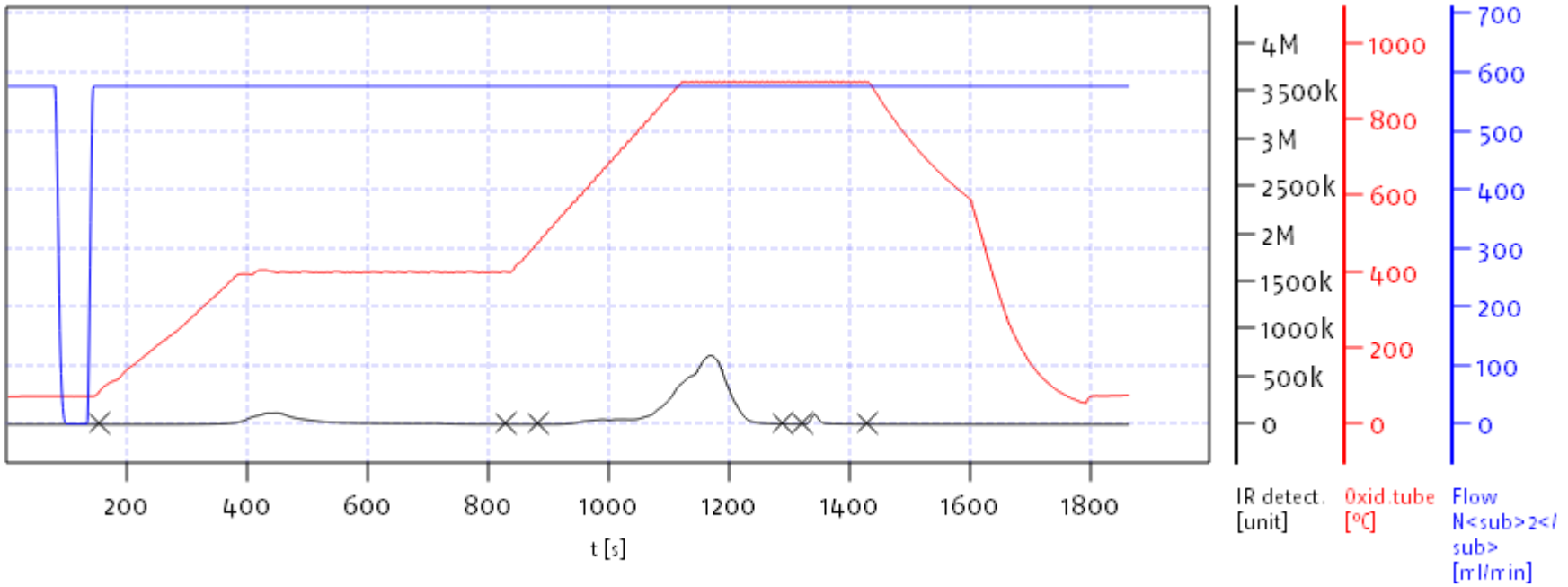
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
56	5	21H0089-13	519.30		1.00	CARBON	8/26/2021 7:48 PM	0.187	0.863	1.050	bl	532 313	2 666 160	71 419	0.9874	1.0000



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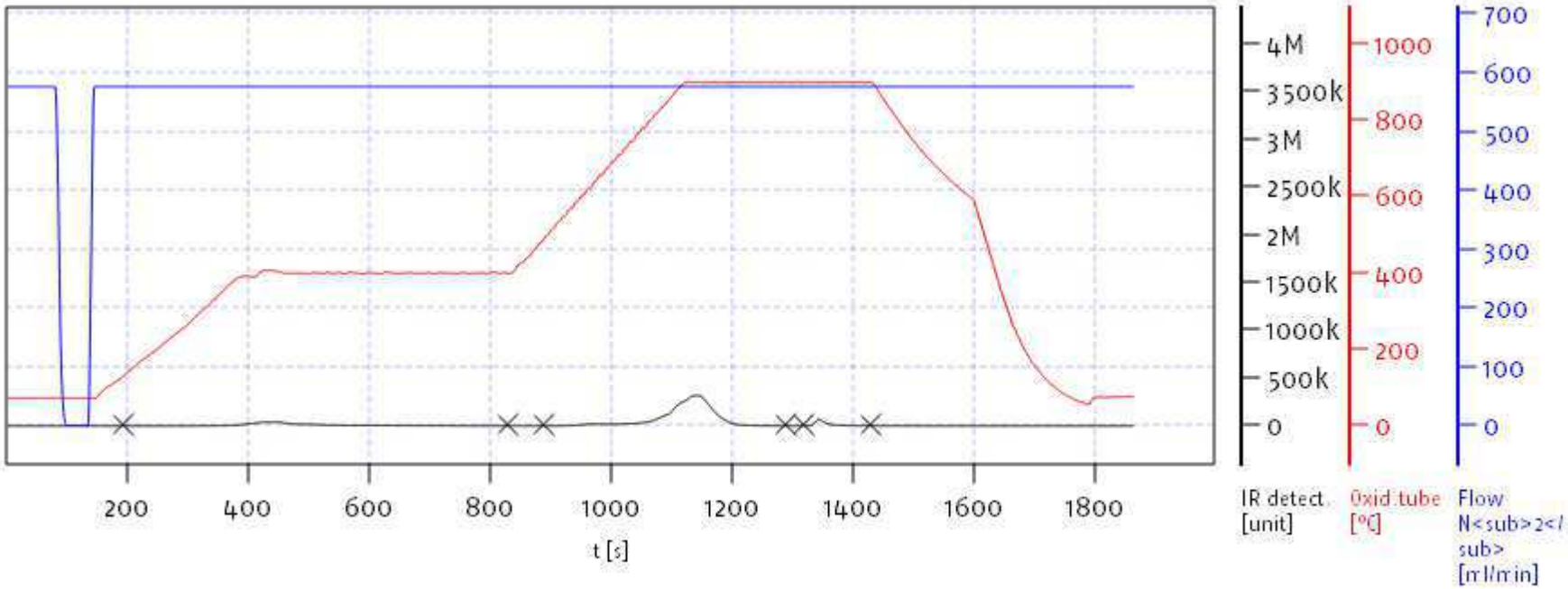
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
57	6	21H0089-14	585.70		1.00	CARBON	8/26/2021 8:20 PM	0.061	0.285	0.345	bl	178 011	998 528	57 679	0.9874	1.0000



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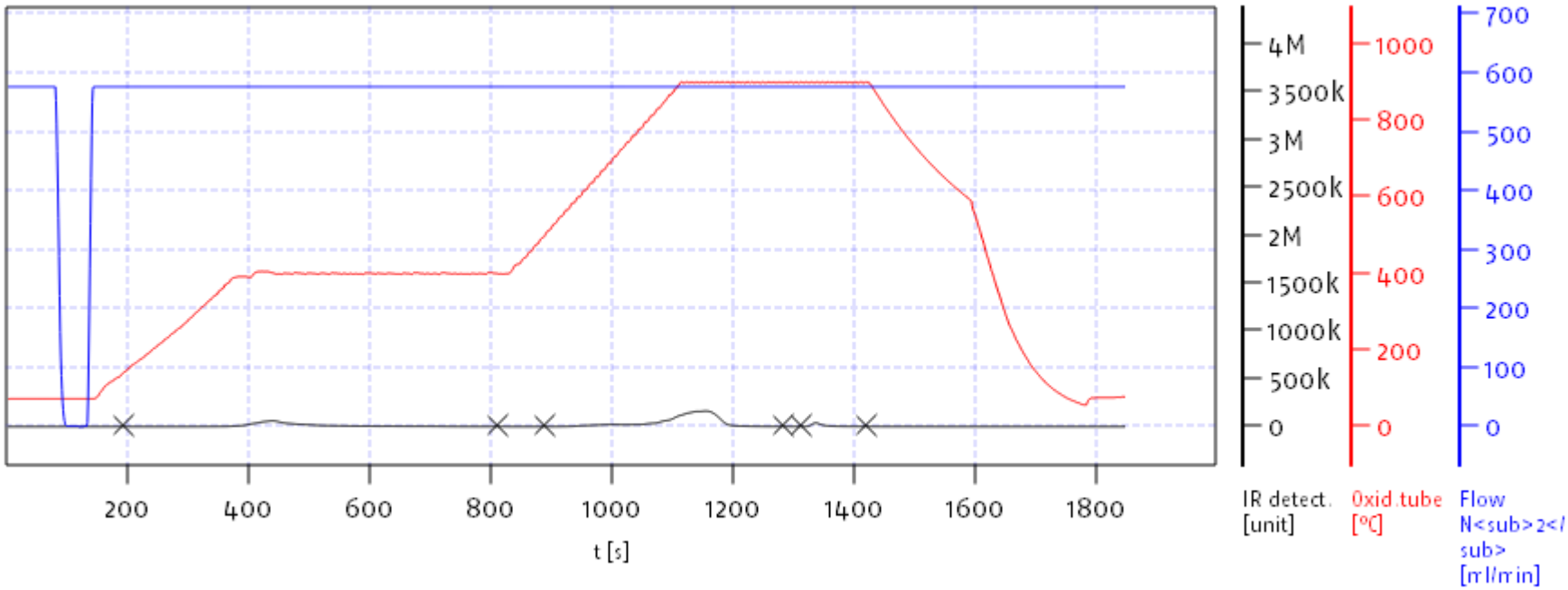
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
58	7	21H0089-15	556.20		1.00	CARBON	8/26/2021 8:51 PM	0.067	0.179	0.246	bl	213 437	600 872	33 727	0.9874	1.0000



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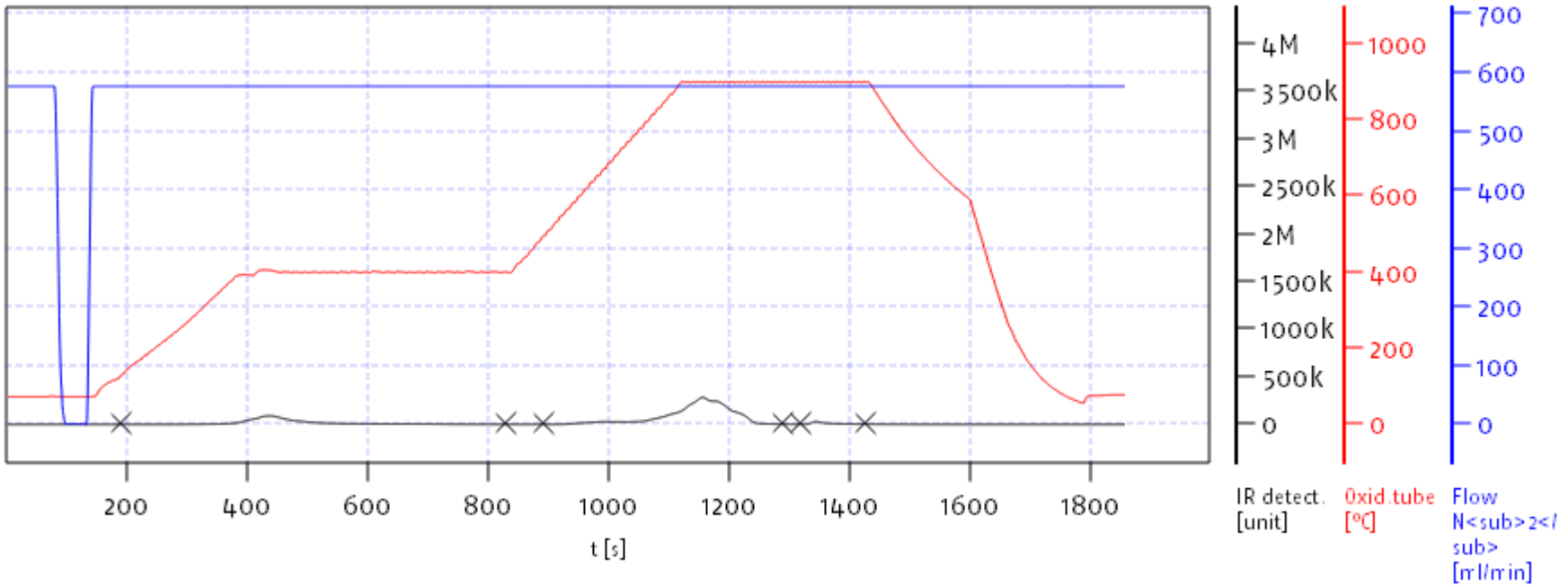
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
59	8	21H0089-16	505.30		1.00	CARBON	8/26/2021 9:22 PM	0.114	0.378	0.492	bl	331 092	1 143 220	37 581	0.9874	1.0000



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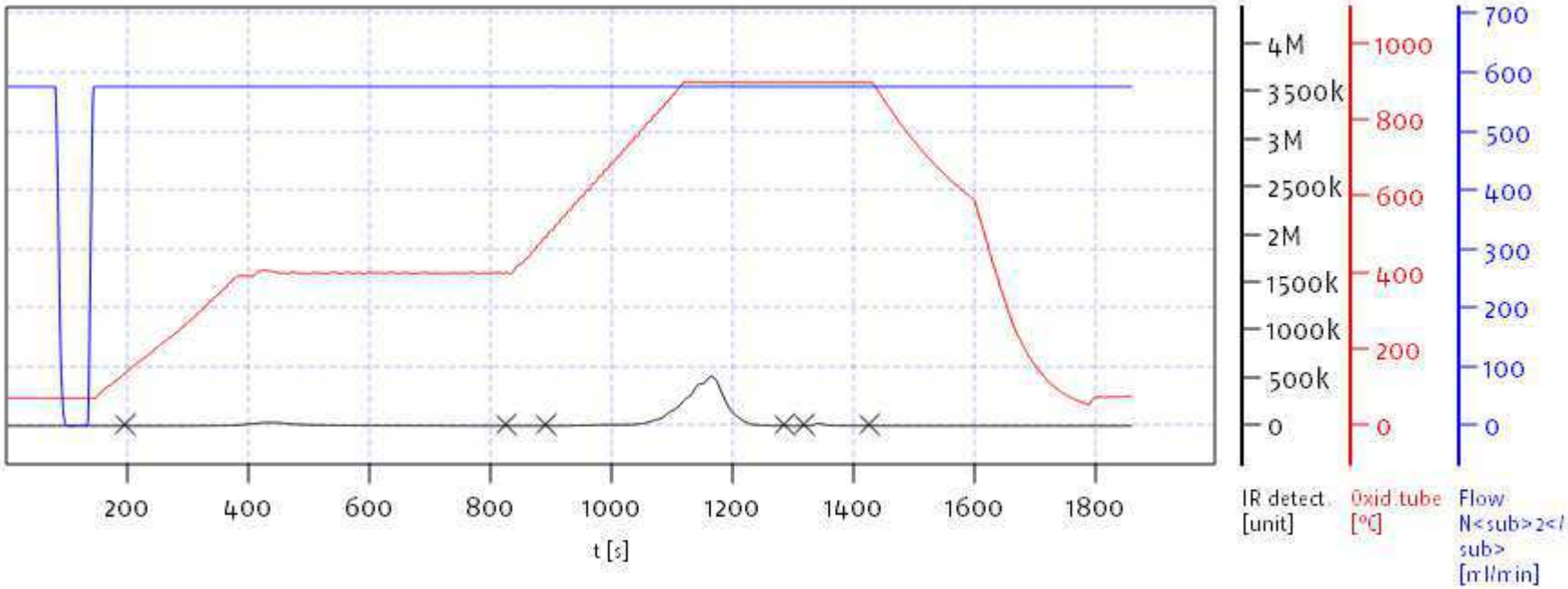
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
60	9	21H0089-17	586.90		1.00	CARBON	8/26/2021 9:54 PM	0.042	0.443	0.486	bl	149 159	1 552 010	23 359	0.9874	1.0000



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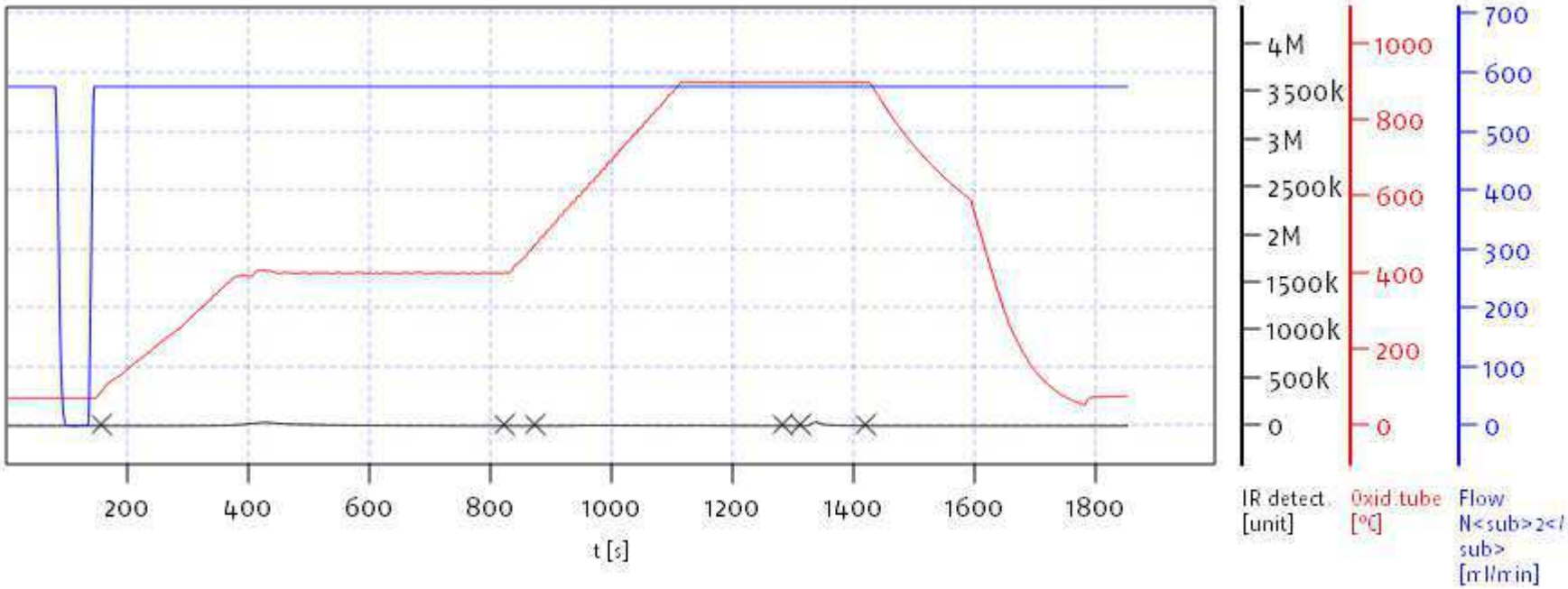
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
61	10	21H0089-18	534.50		1.00	CARBON	8/26/2021 10:25 PM	0.053	0.009	0.061	bl	154 711	38 983	37 170	0.9874	1.0000



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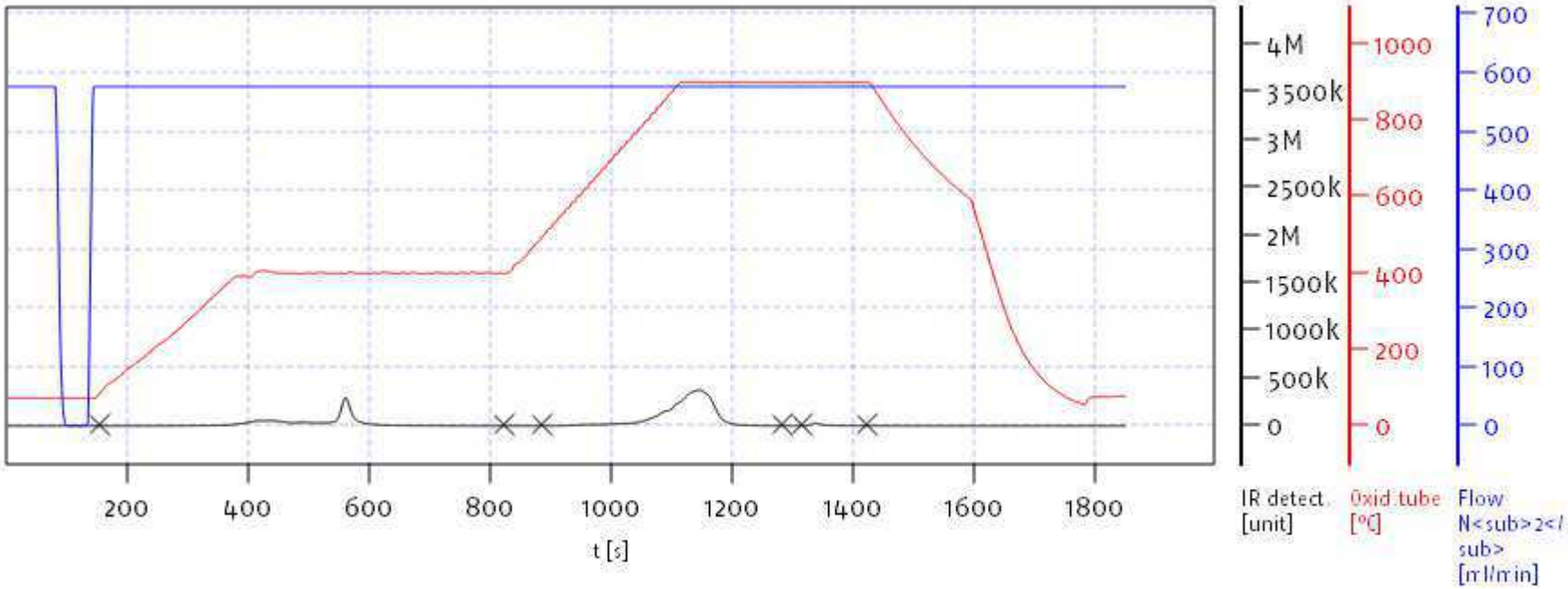
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
62	11	21H0089-19	509.70		1.00	CARBON	8/26/2021 10:56 PM	0.173	0.392	0.565	bl	528 317	1 193 990	24 687	0.9874	1.0000



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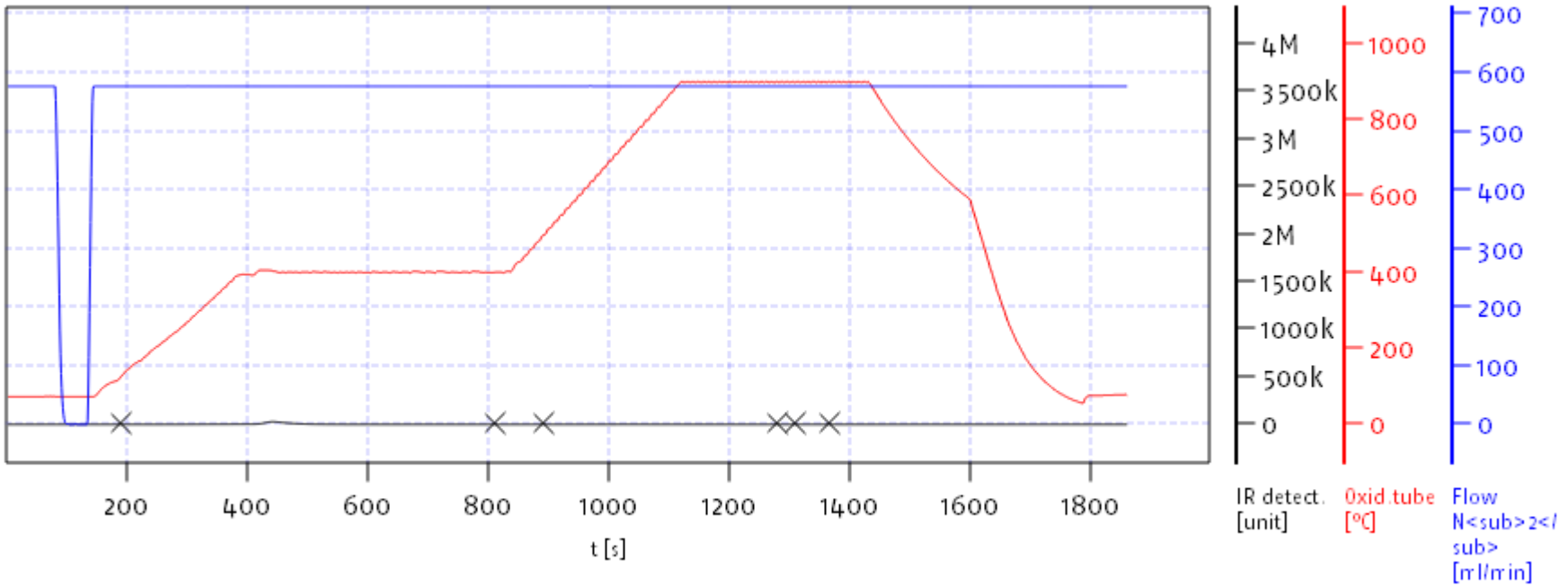
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
63	12	BJH0512-MRL1	505.70		1.00	CARBON	8/26/2021 11:28 PM	0.016	0.000	0.016	bl,C3u,C2u	61 318	4 395	68	0.9874	1.0000



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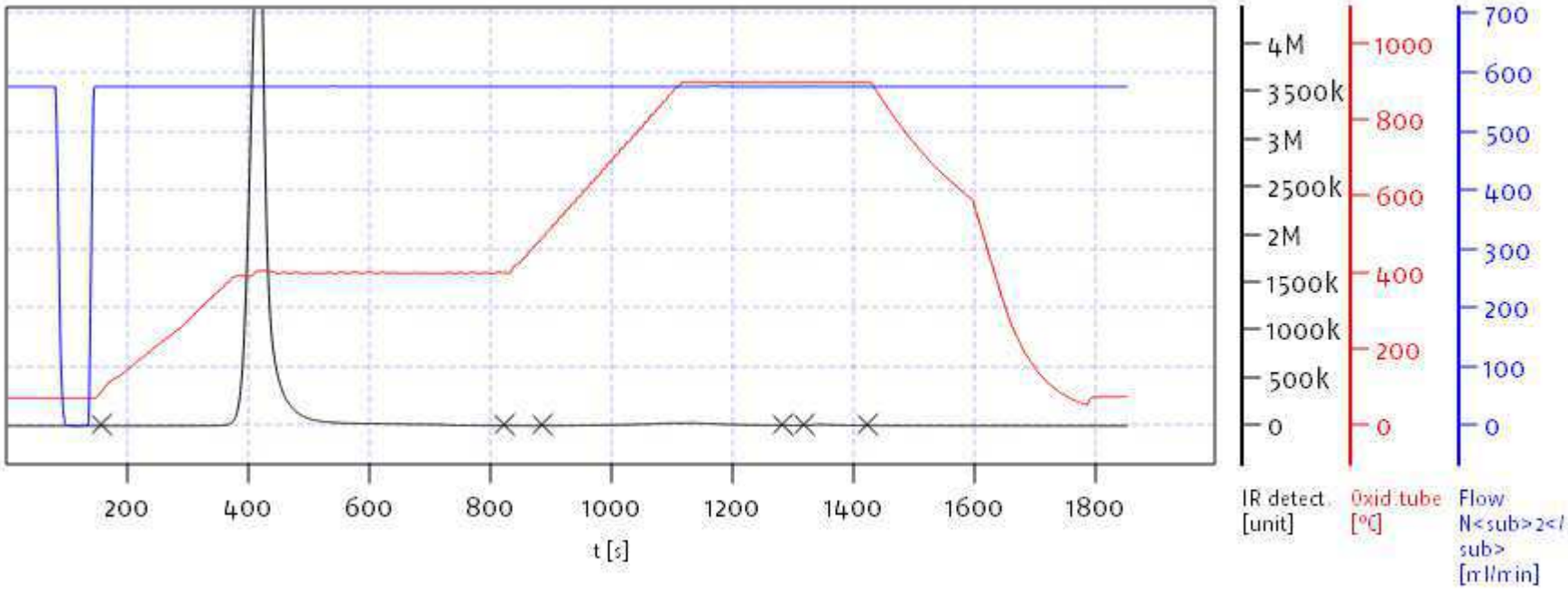
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
64	13	SJH0331-CCV5	25.20		1.00	CARBON	8/26/2021 11:59 PM	44.658	1.274	45.931	bl	6 741 860	201 751	29 459	0.9874	1.0000



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Date: Tue Aug 31 14:32:59 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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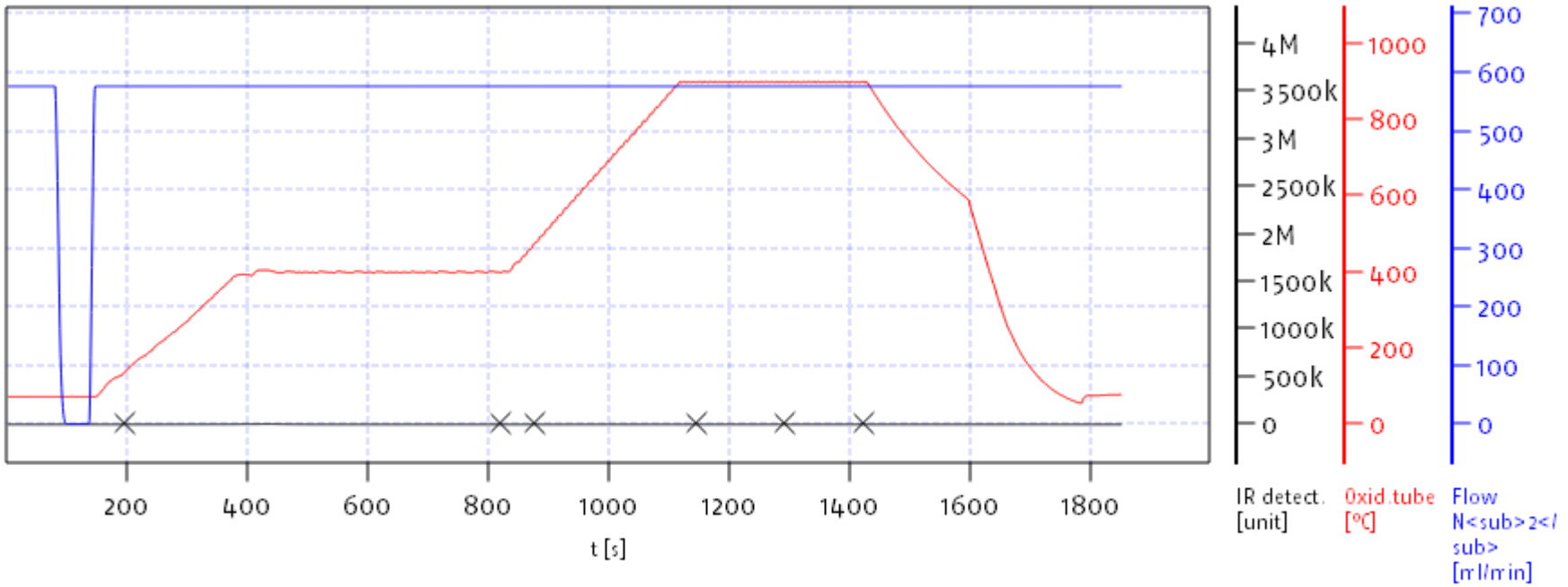
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
65	14	SJH0331-CCB5	635.00		1.00	CARBON	8/27/2021 12:30 AM	0.001	0.000	0.001	bl,C2u	15 694	0	30	0.9874	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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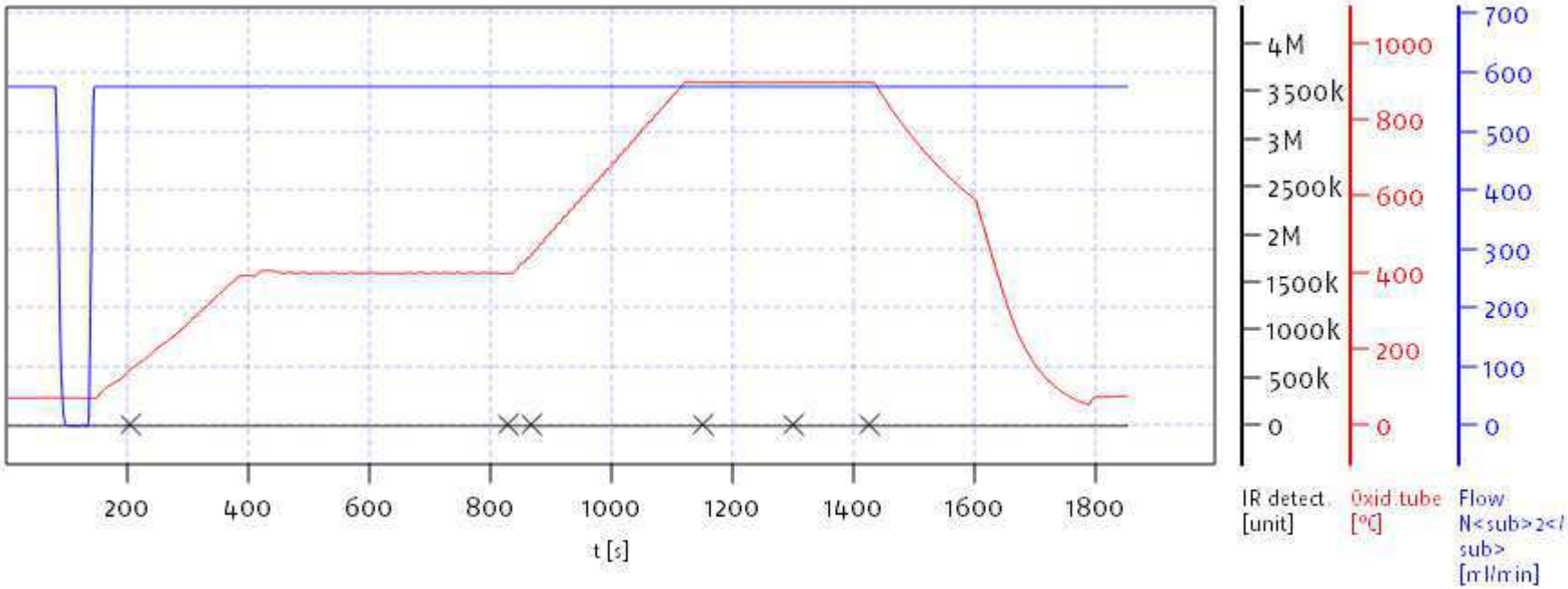
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
66	15	BJH0512-BLK1	632.60		1.00	CARBON	8/27/2021 1:02 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	3 308	920	473	0.9874	1.0000



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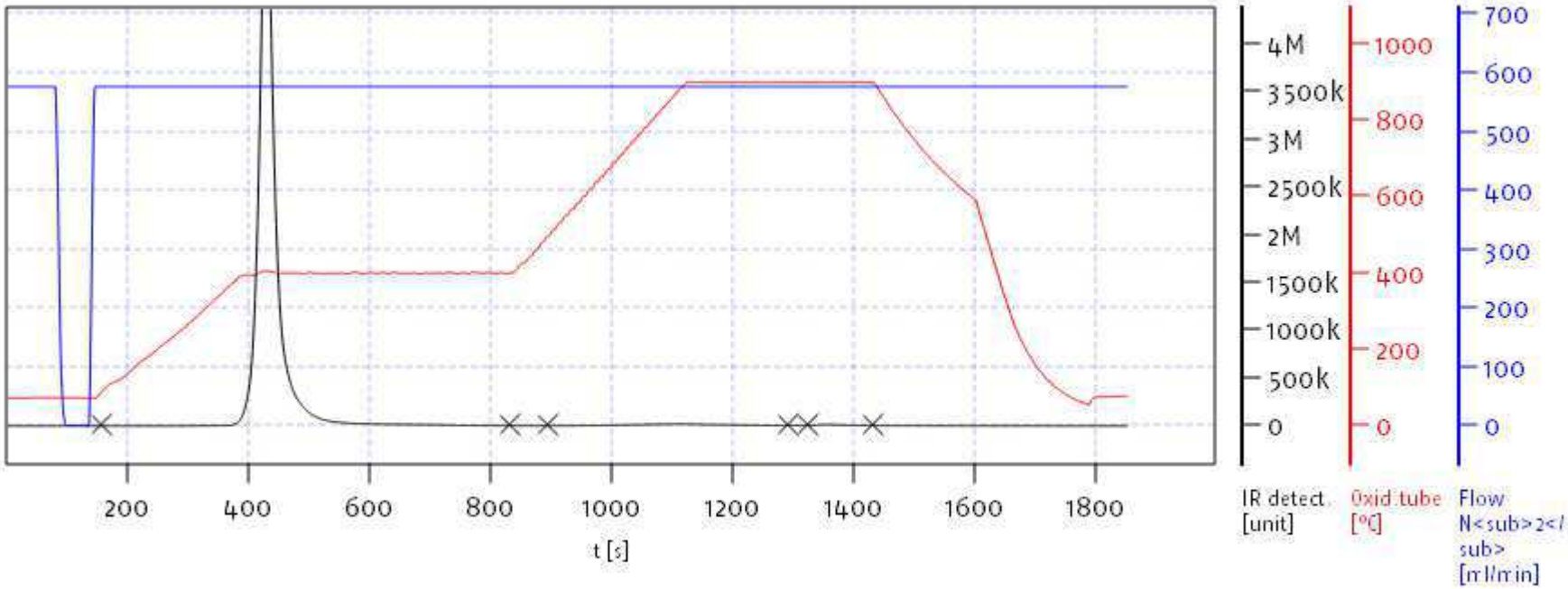
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
67	16	BJH0512-BS1	25.40		1.00	CARBON	8/27/2021 1:33 AM	45.782	0.838	46.620	bl	6 966 500	137 684	29 632	0.9874	1.0000



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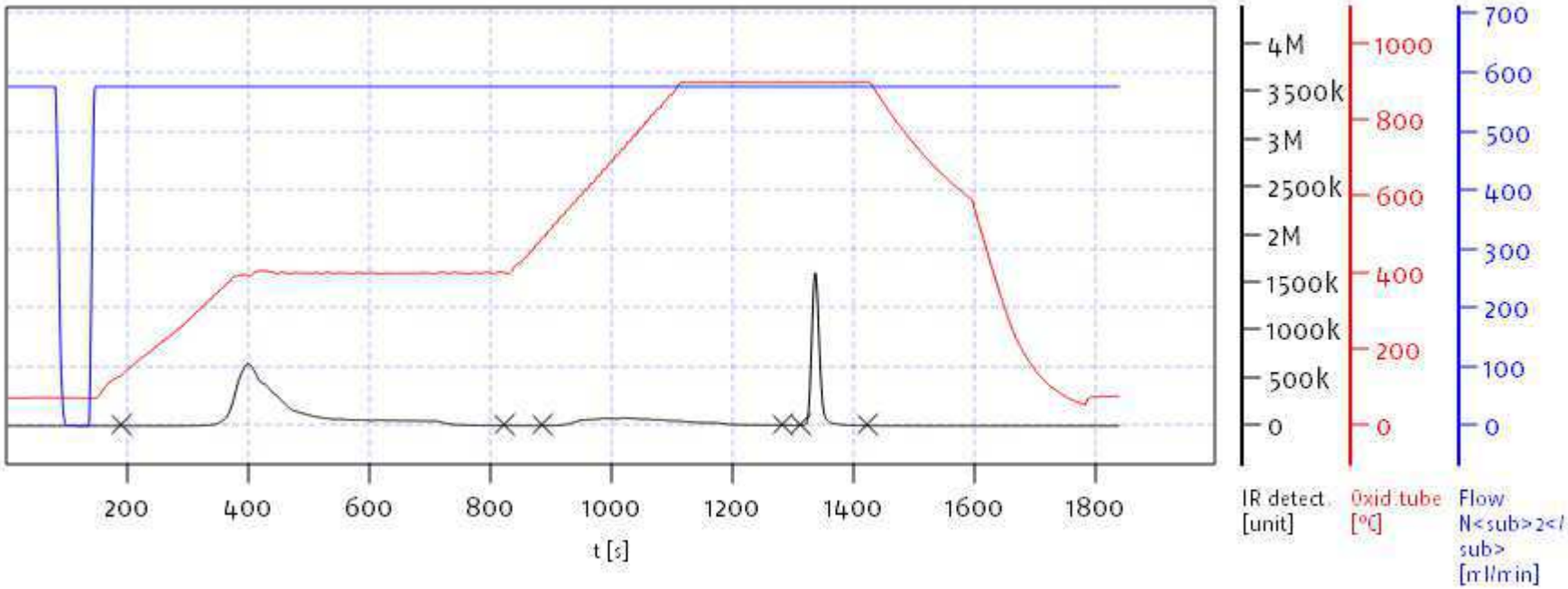
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
68	17	21H0140-01	515.40		1.00	CARBON	8/27/2021 2:04 AM	1.042	0.192	1.235	bl	2 331 590	599 122	901 849	0.9874	1.0000



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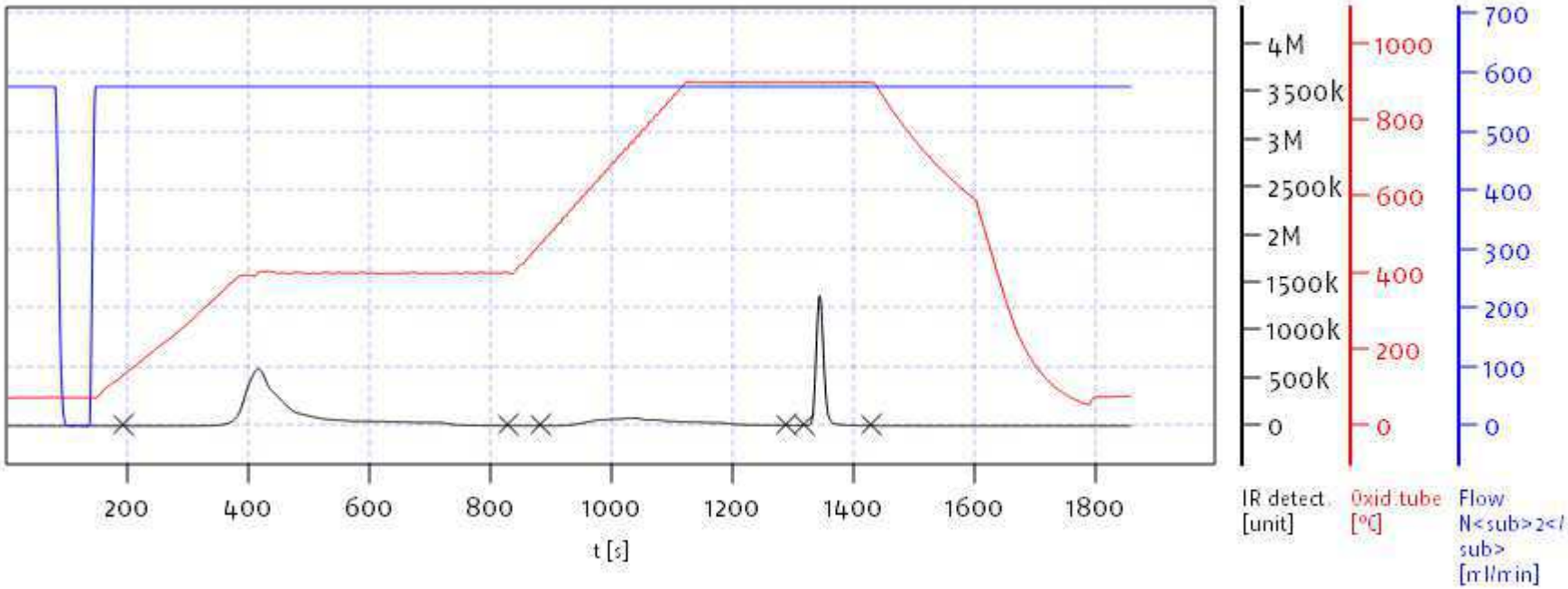
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
69	18	BJH0512-DUP1	505.50		1.00	CARBON	8/27/2021 2:36 AM	0.859	0.174	1.033	bl	1 863 800	533 584	753 606	0.9874	1.0000



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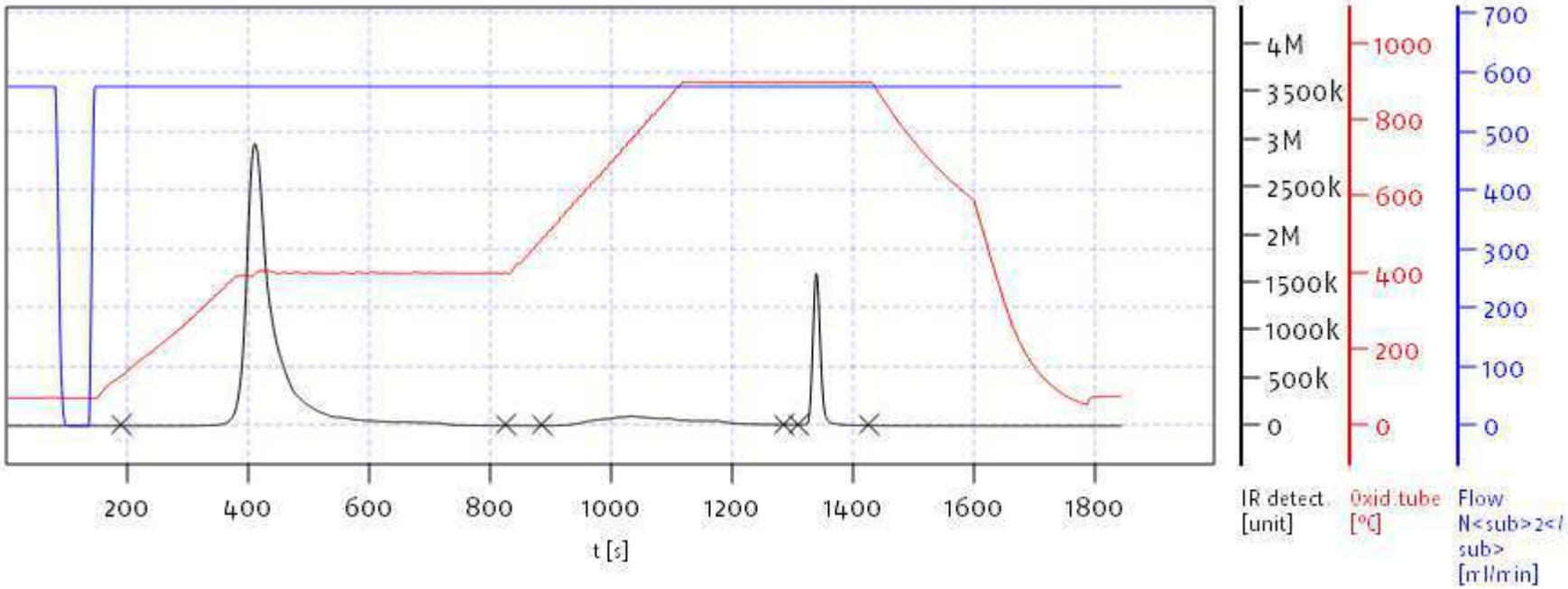
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
70	19	BJH0512-MS1	555.00	0.0119	1.00	CARBON	8/27/2021 3:07 AM	1.974	0.213	2.187	bl	5 694 500	710 678	888 309	0.9874	1.0000



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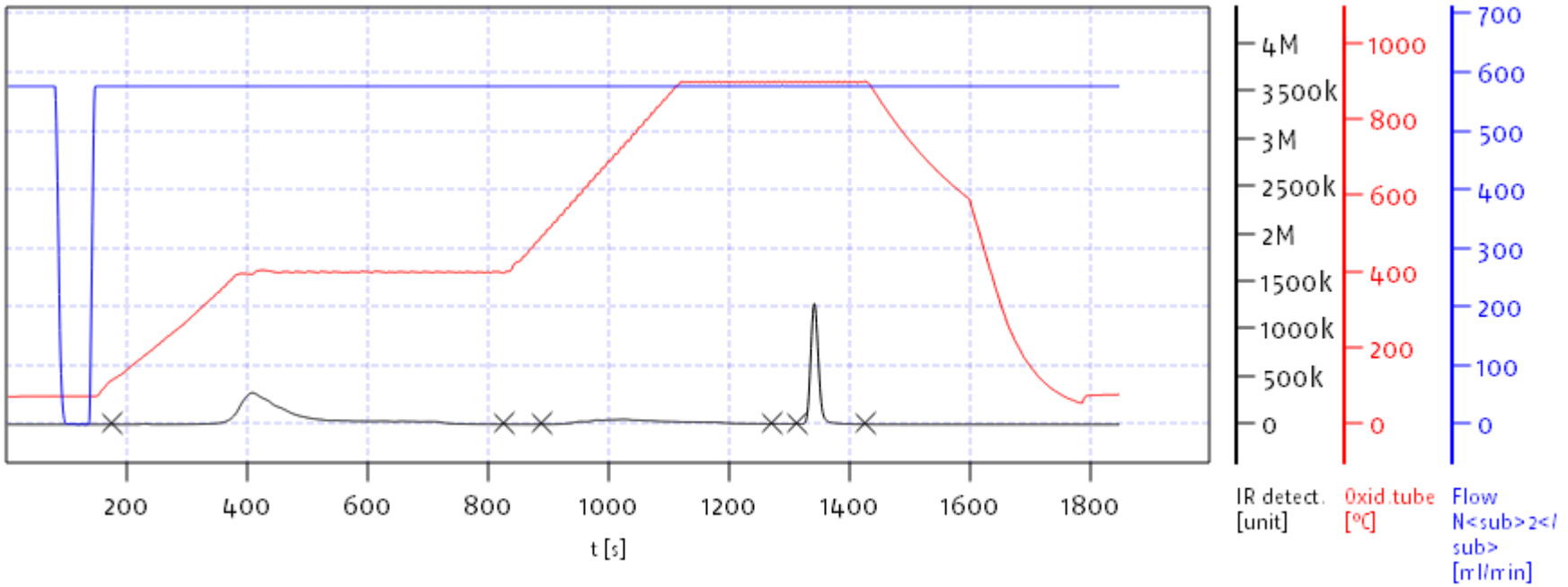
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
71	20	21H0140-02	358.70		1.00	CARBON	8/27/2021 3:38 AM	0.926	0.164	1.090	bl	1 281 940	359 426	725 012	0.9874	1.0000



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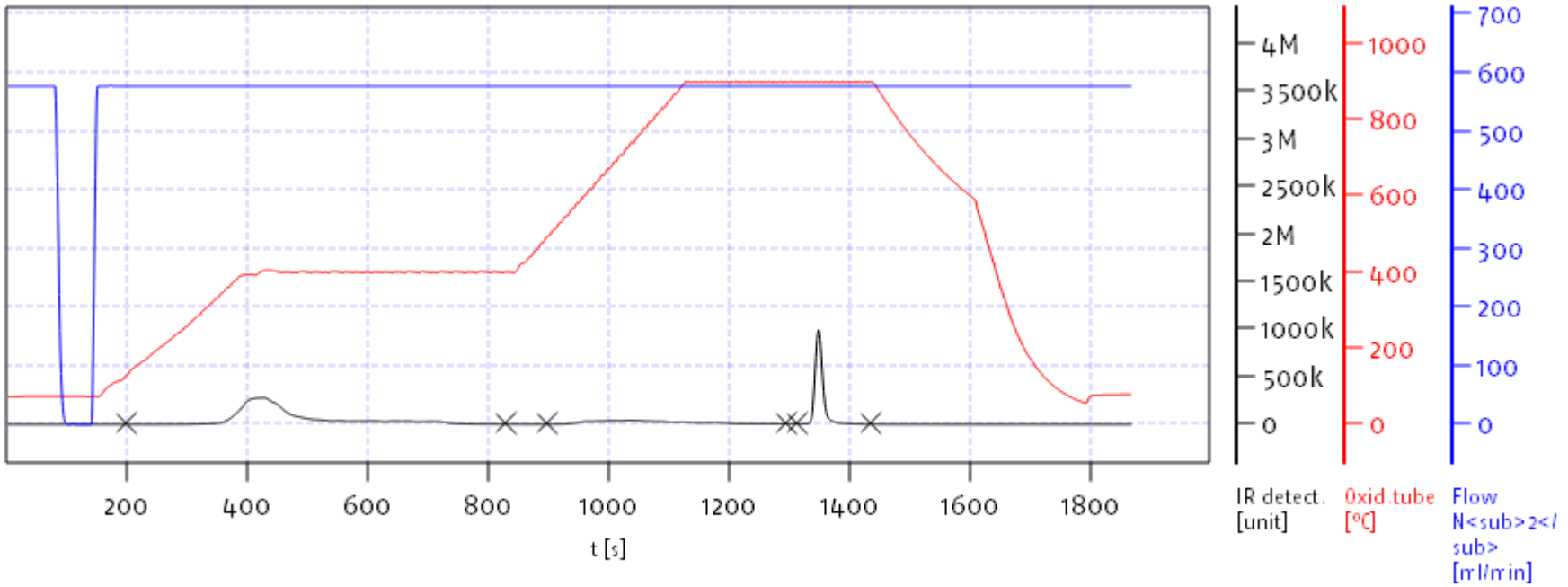
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
72	21	21H0140-03	294.80		1.00	CARBON	8/27/2021 4:10 AM	0.993	0.171	1.164	bl	1 209 590	309 979	562 495	0.9874	1.0000



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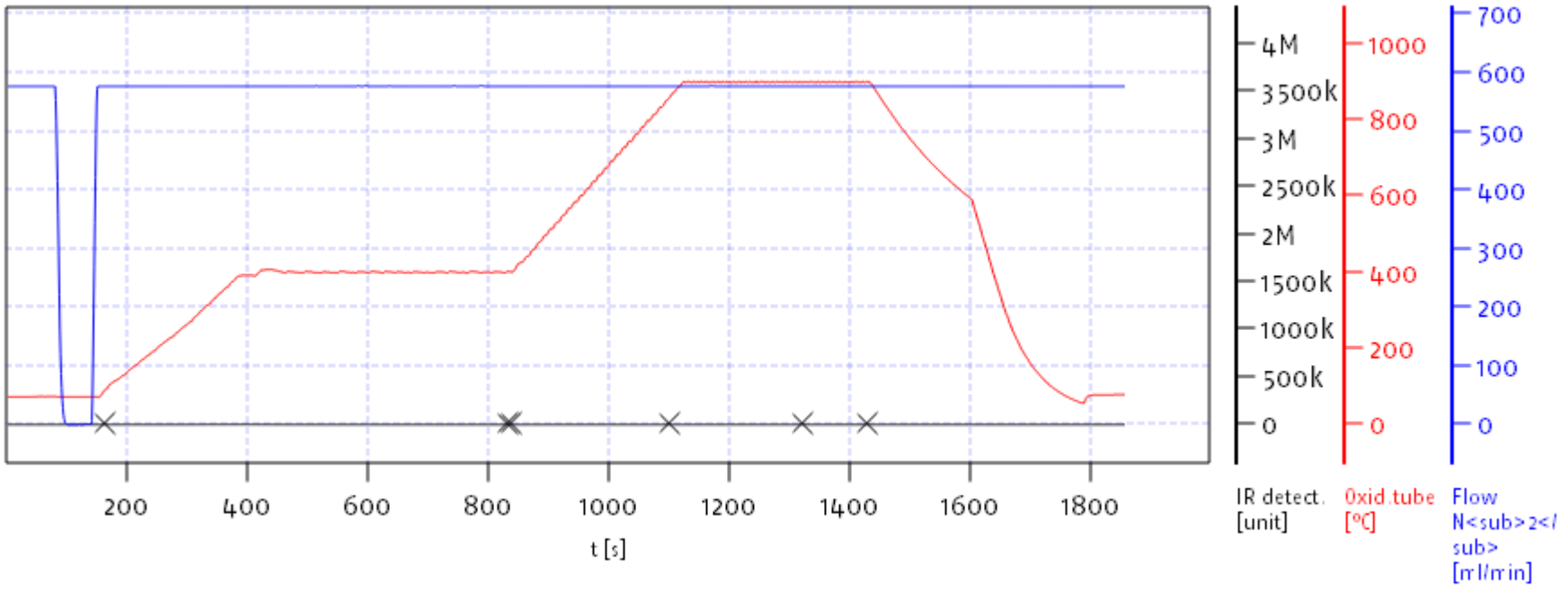
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
73	22	BLANK	1.00		1.00	CARBON	8/27/2021 4:41 AM	0.000	0.000	0.000	bl	7 936	478	259	0.9874	1.0000



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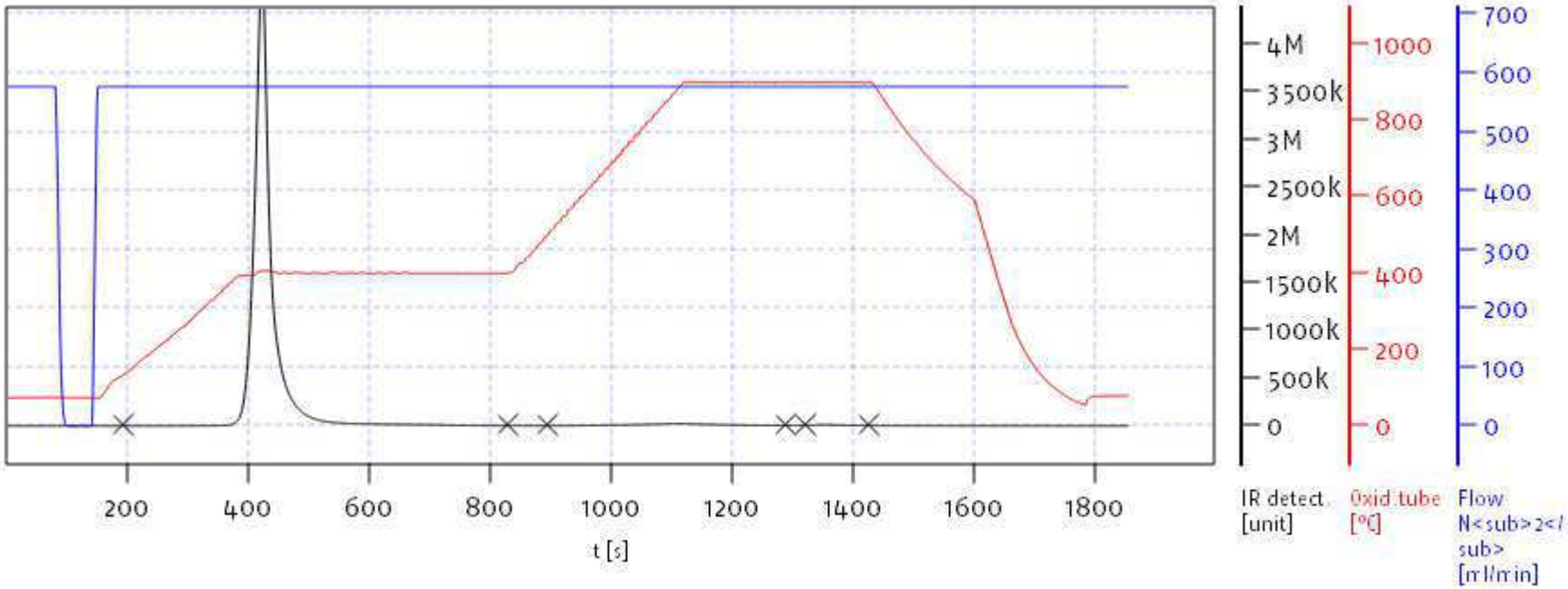
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
74	23	Dfactor	21.10		1.00	CARBON	8/27/2021 5:13 AM	44.565	1.103	45.668	bl	5 624 490	149 430	26 588	0.9893	1.0000



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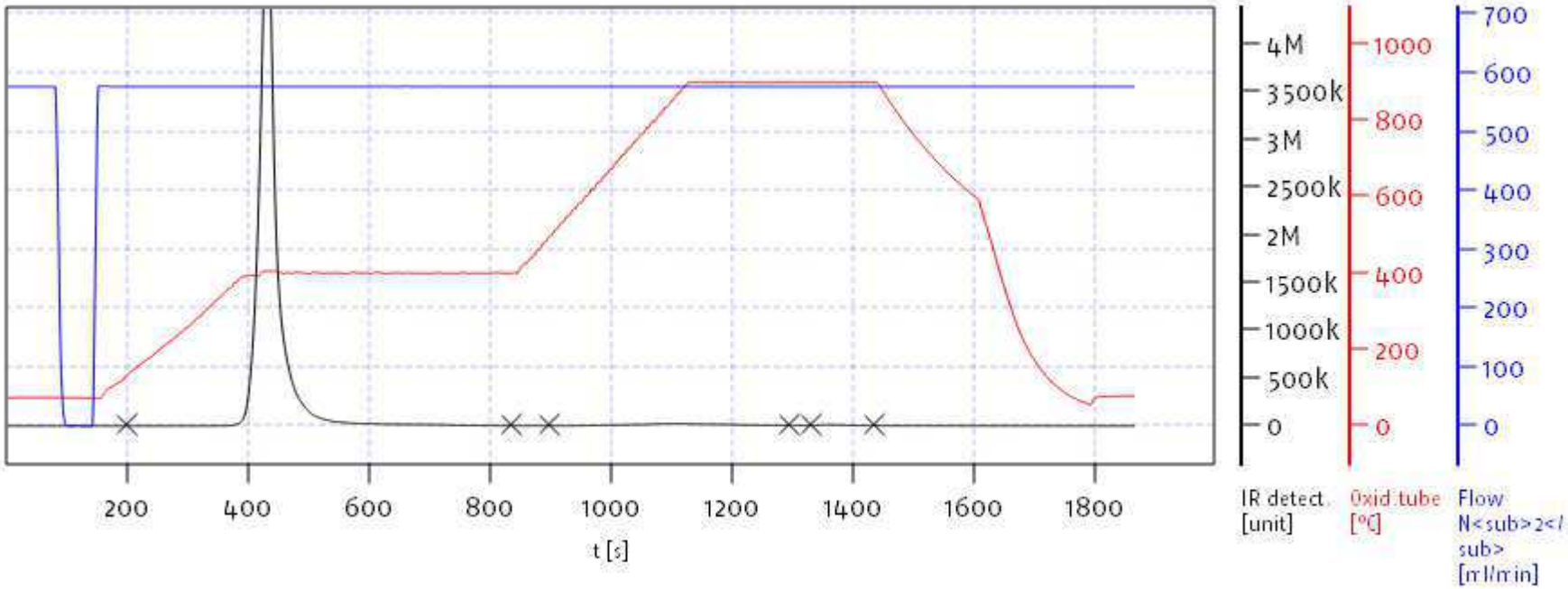
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
75	24	Dfactor	24.80		1.00	CARBON	8/27/2021 5:44 AM	44.537	1.026	45.563	bl	6 724 490	162 352	25 078	0.9723	1.0000



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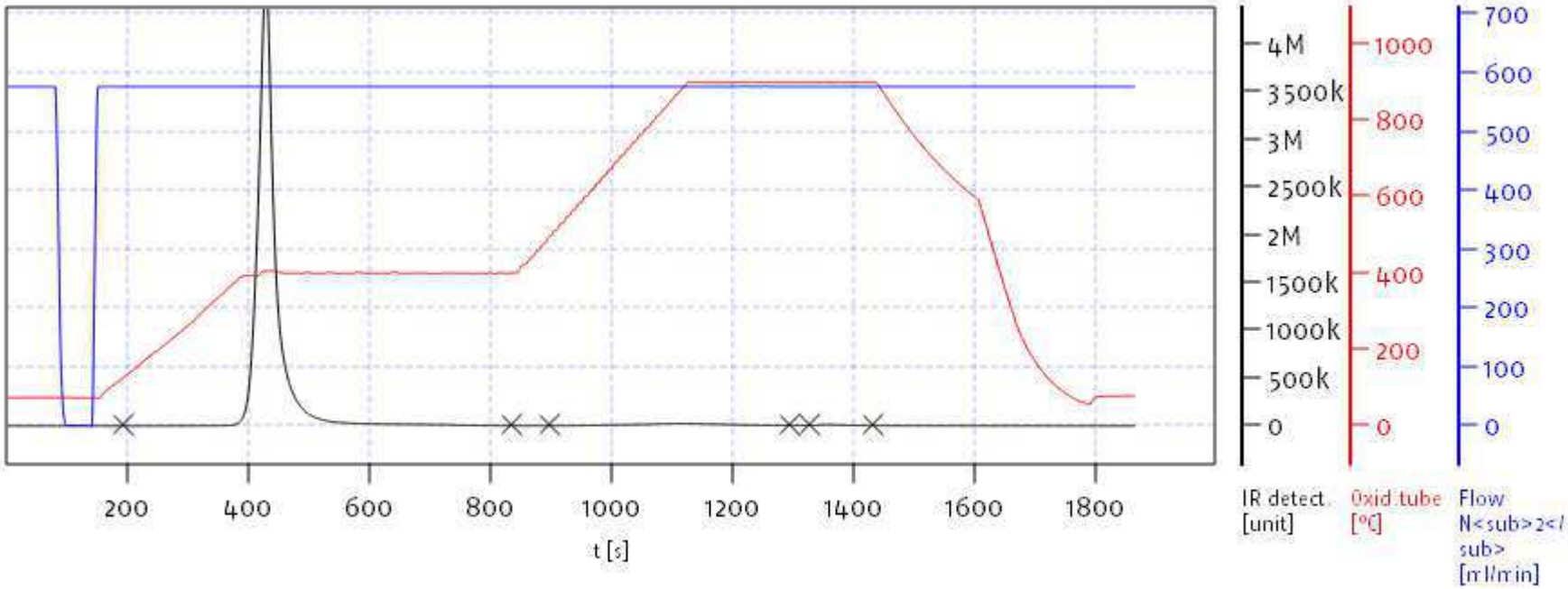
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
76	25	SJH0331-CCV6	22.00		1.00	CARBON	8/27/2021 6:16 AM	44.038	1.236	45.274	bl	5 845 220	172 698	26 767	0.9808	1.0000



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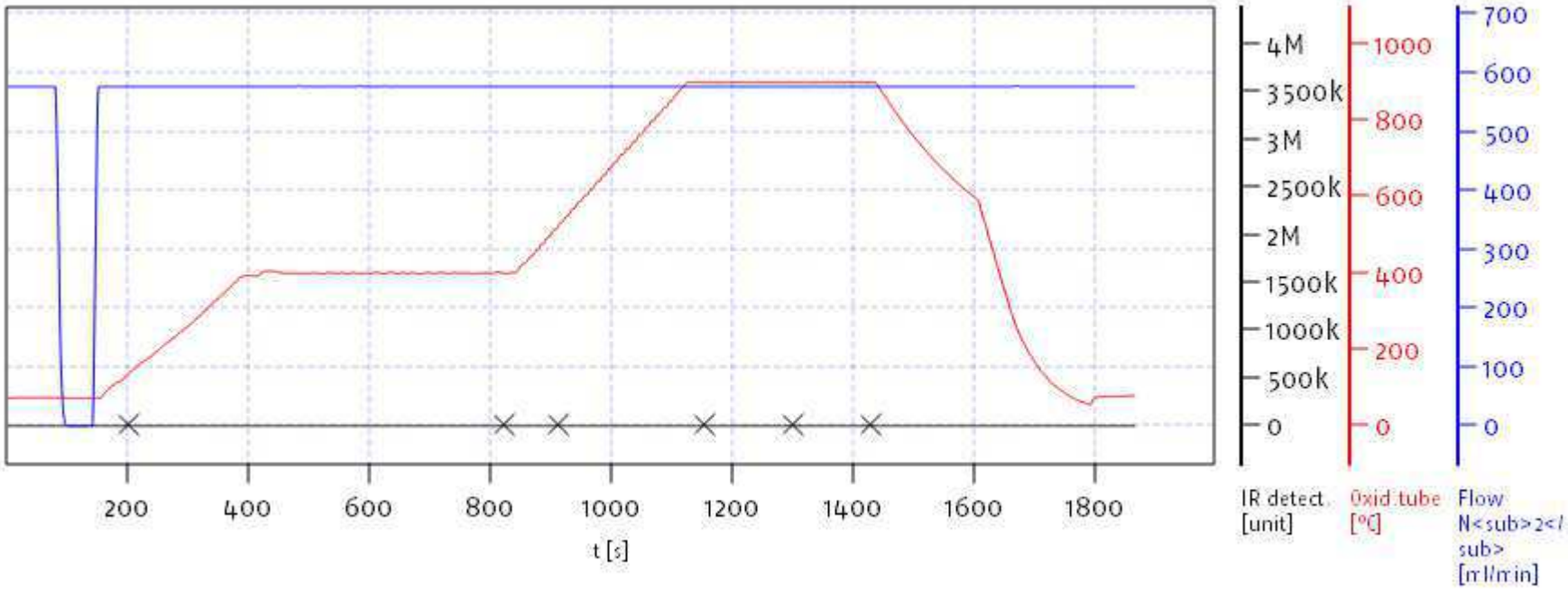
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
77	26	SJH0331-CCB6	548.30		1.00	CARBON	8/27/2021 6:47 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	1 753	1 180	250	0.9808	1.0000



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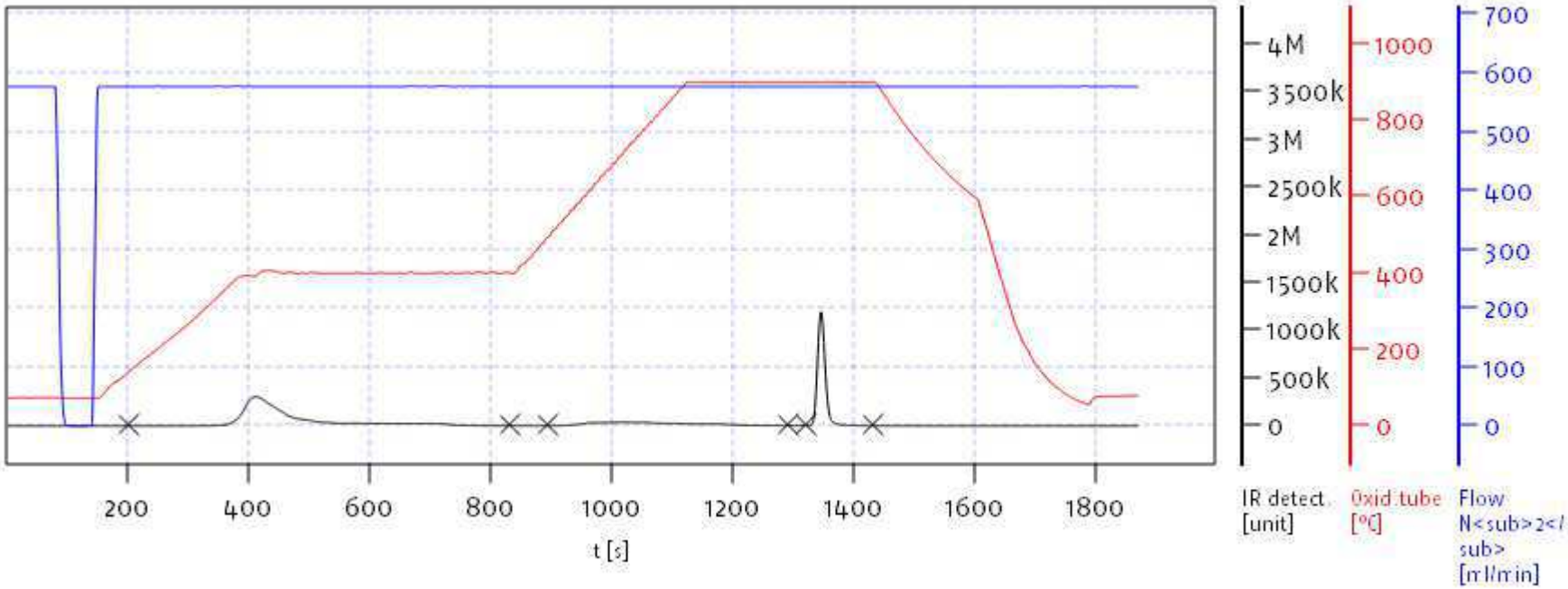
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
78	27	21H0140-04	303.90		1.00	CARBON	8/27/2021 7:19 AM	0.932	0.155	1.086	bl	1 049 770	290 373	669 853	0.9808	1.0000



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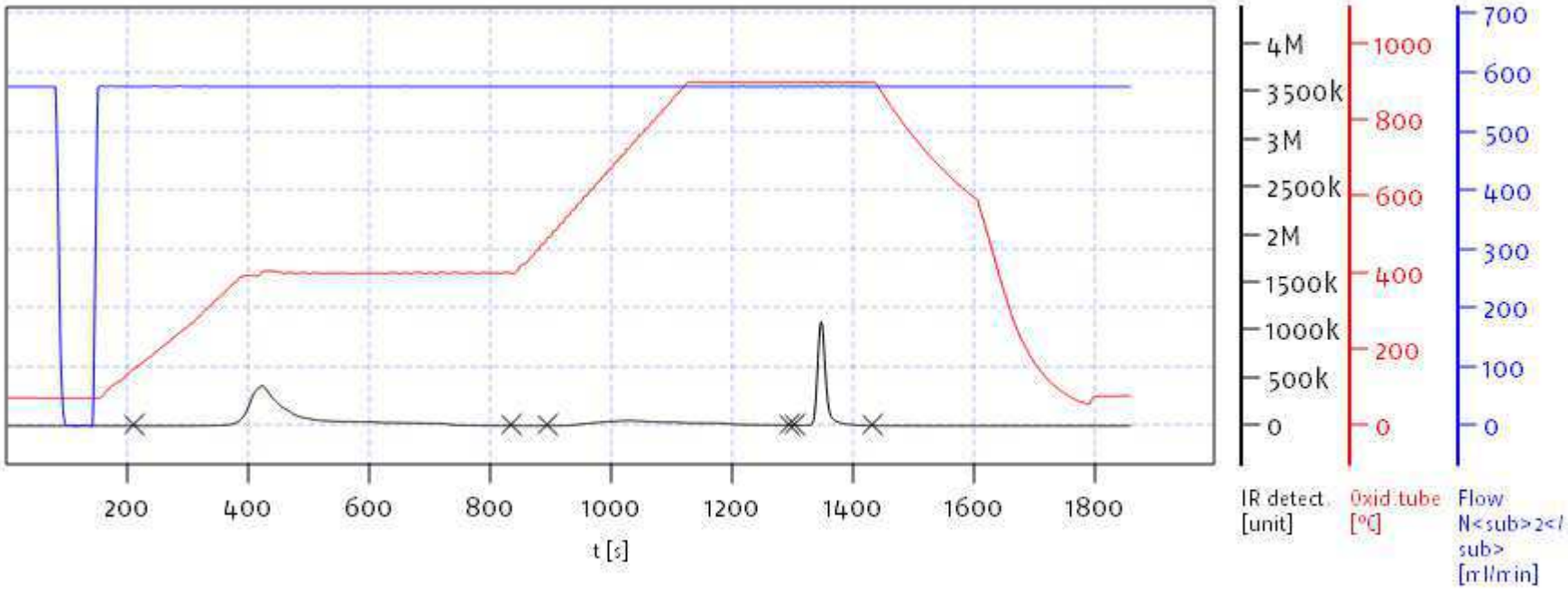
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
79	28	21H0140-05	398.10		1.00	CARBON	8/27/2021 7:50 AM	0.819	0.162	0.981	bl	1 317 800	393 649	661 266	0.9808	1.0000



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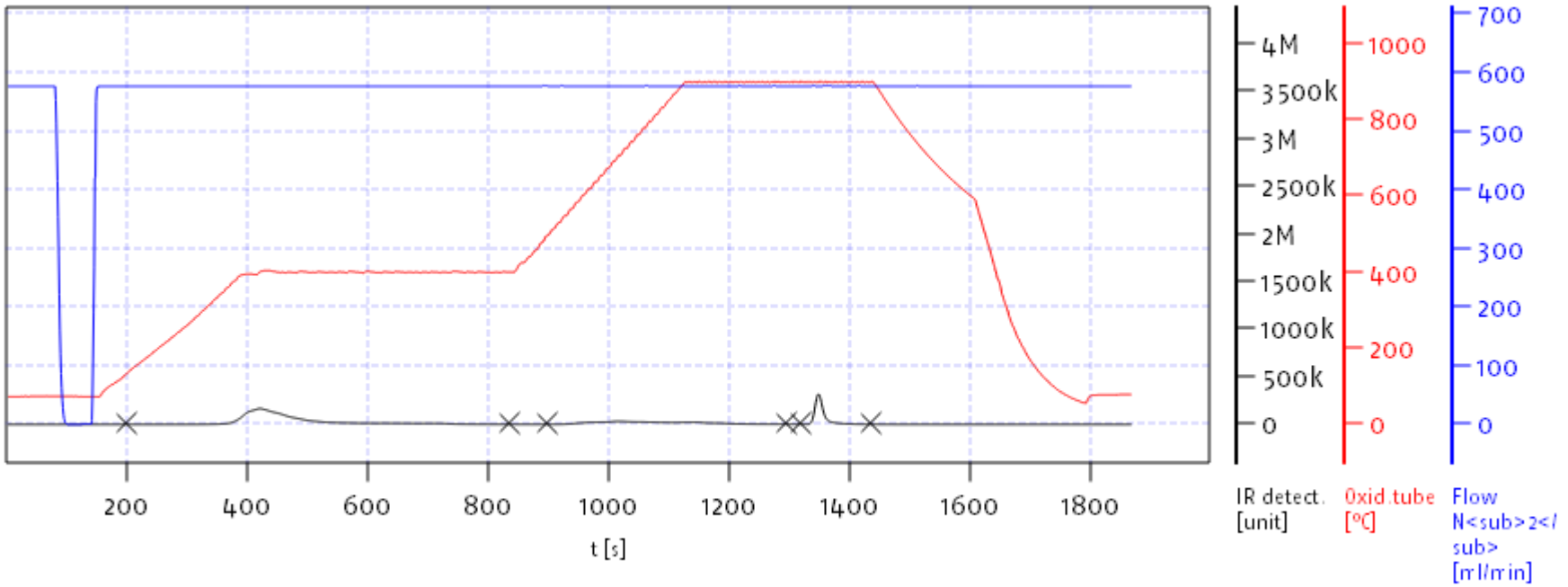
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
80	29	21H0140-06	334.50		1.00	CARBON	8/27/2021 8:22 AM	0.404	0.109	0.514	bl	634 956	228 189	201 330	0.9808	1.0000



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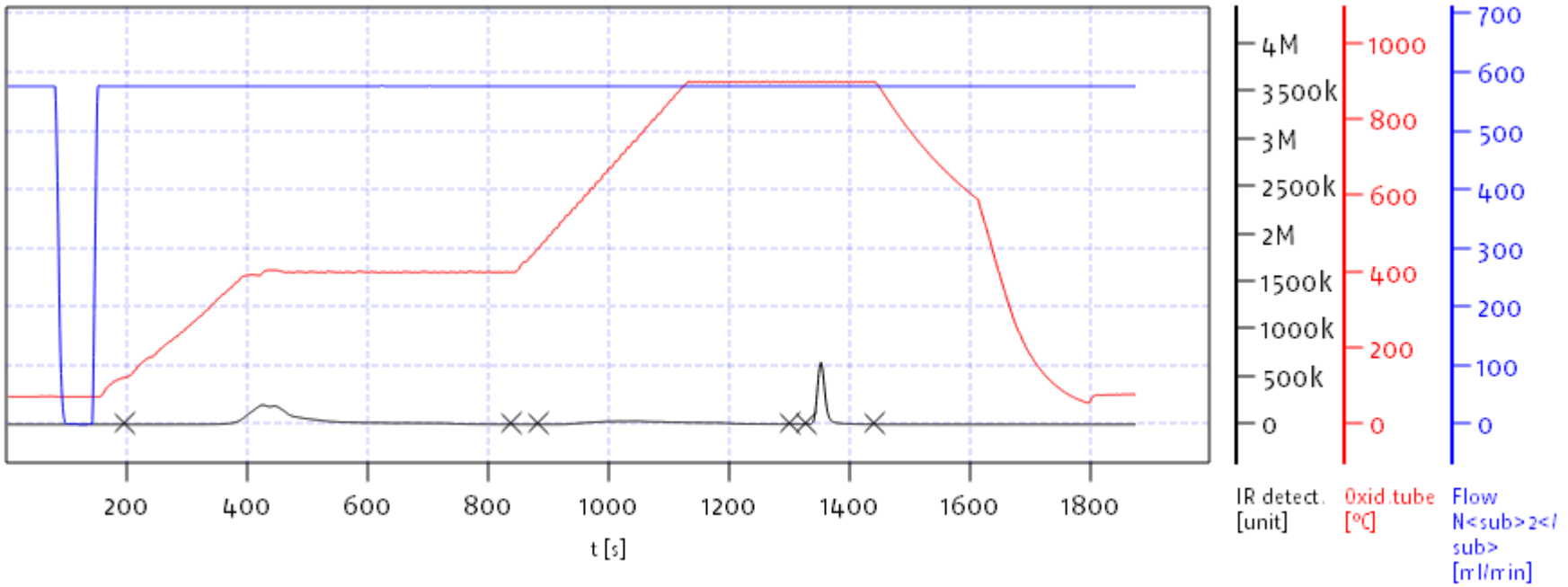
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
81	30	21H0140-07	323.10		1.00	CARBON	8/27/2021 8:54 AM	0.579	0.126	0.705	bl	777 363	252 881	367 554	0.9808	1.0000



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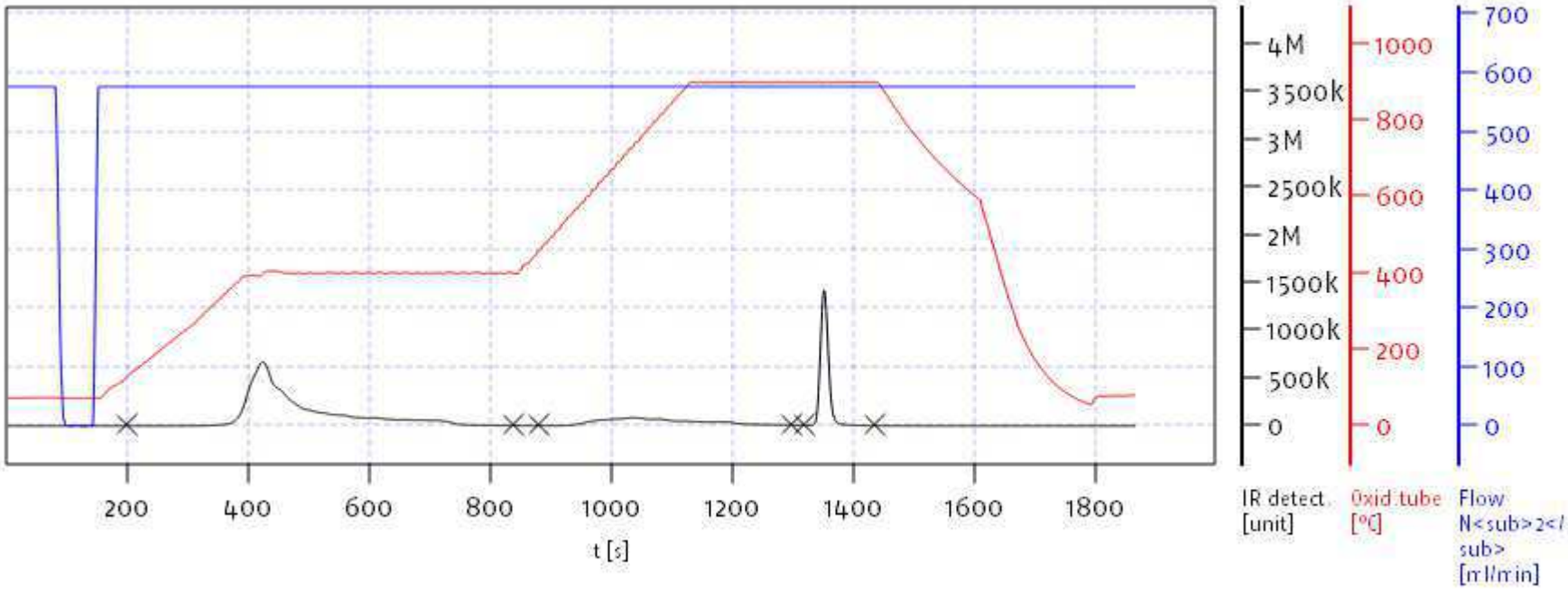
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
82	31	21H0140-08	608.70		1.00	CARBON	8/27/2021 9:25 AM	0.884	0.165	1.050	bl	2 427 370	607 996	828 909	0.9808	1.0000



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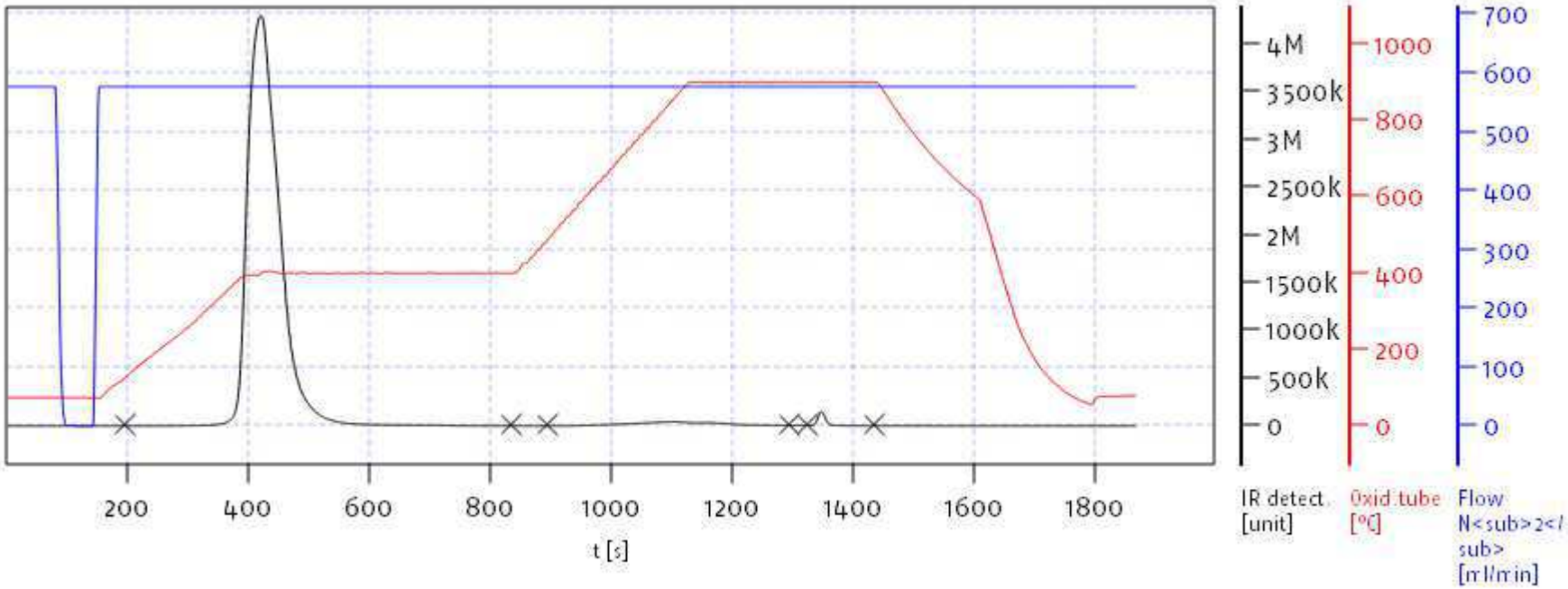
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
83	32	21H0140-09	579.90		1.00	CARBON	8/27/2021 9:57 AM	2.798	0.076	2.875	bl,C1o	9 729 350	274 246	89 035	0.9808	1.0000



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Balance: BAL3
Analyst: BF

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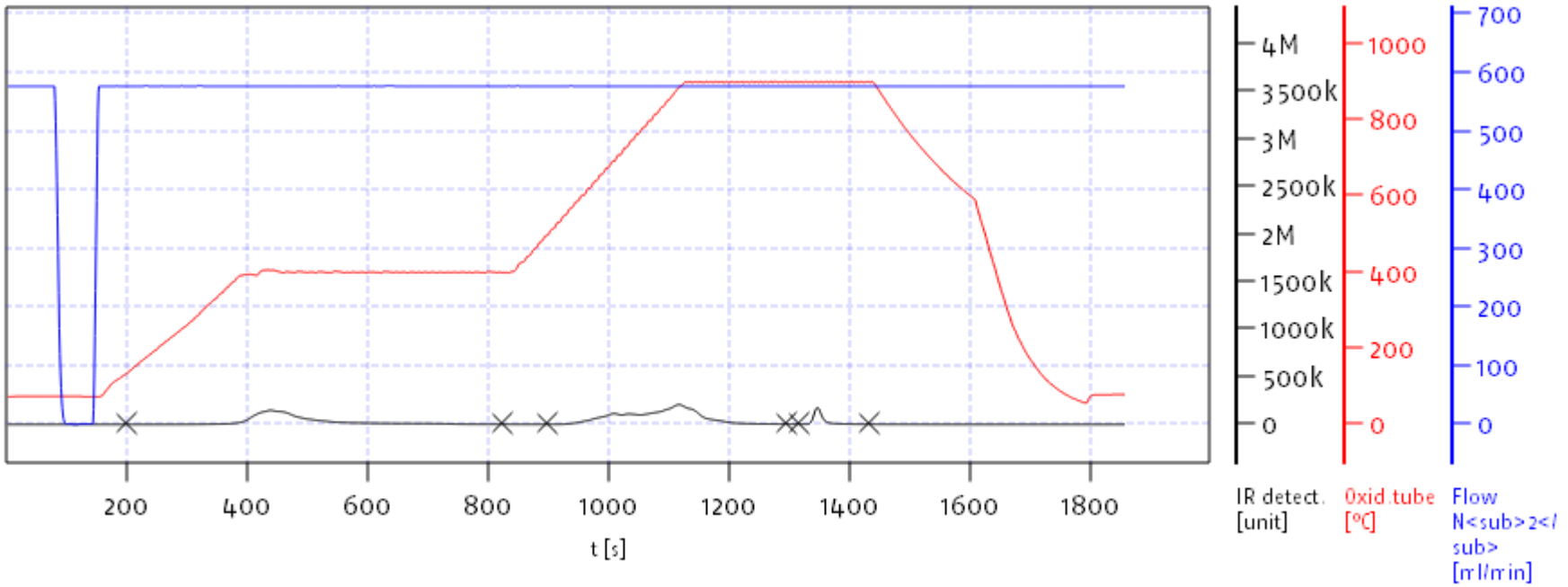
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
84	33	21H0140-10	723.80		1.00	CARBON	8/27/2021 10:28 AM	0.160	0.231	0.391	bl	601 404	1 003 240	117 021	0.9808	1.0000



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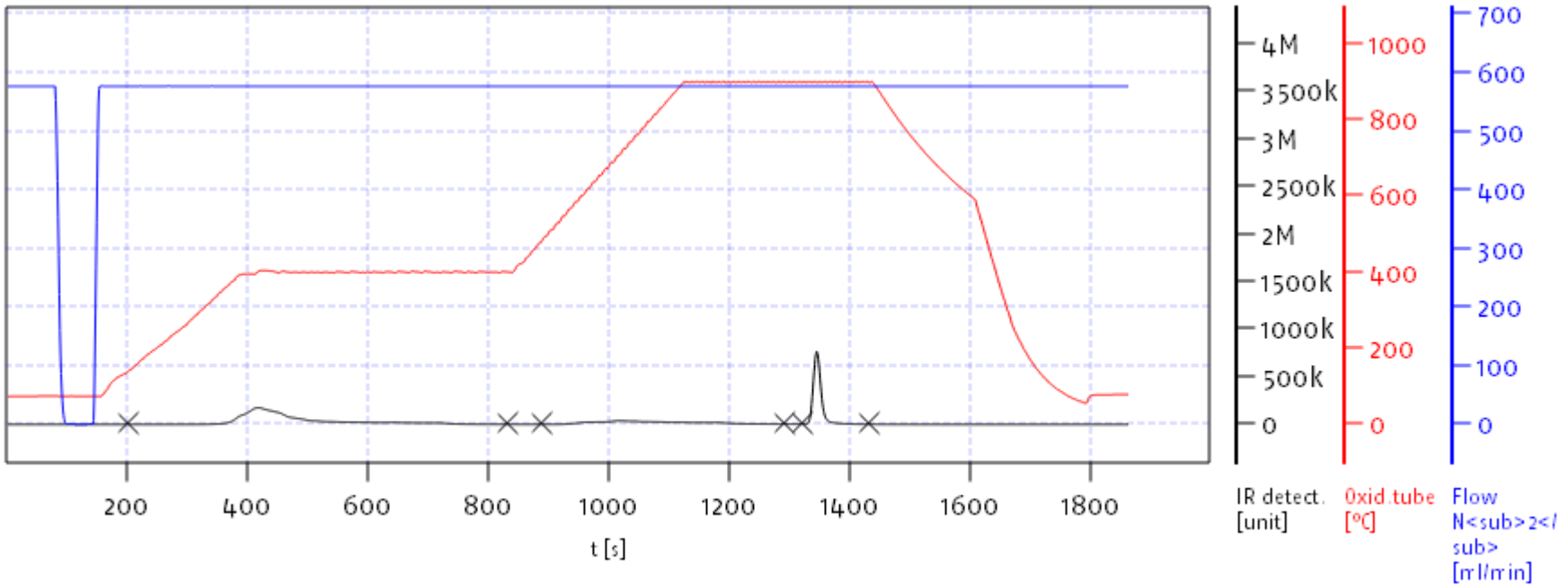
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
85	34	21H0184-01	375.90		1.00	CARBON	8/27/2021 11:00 AM	0.506	0.113	0.620	bl	728 873	263 986	434 915	0.9808	1.0000



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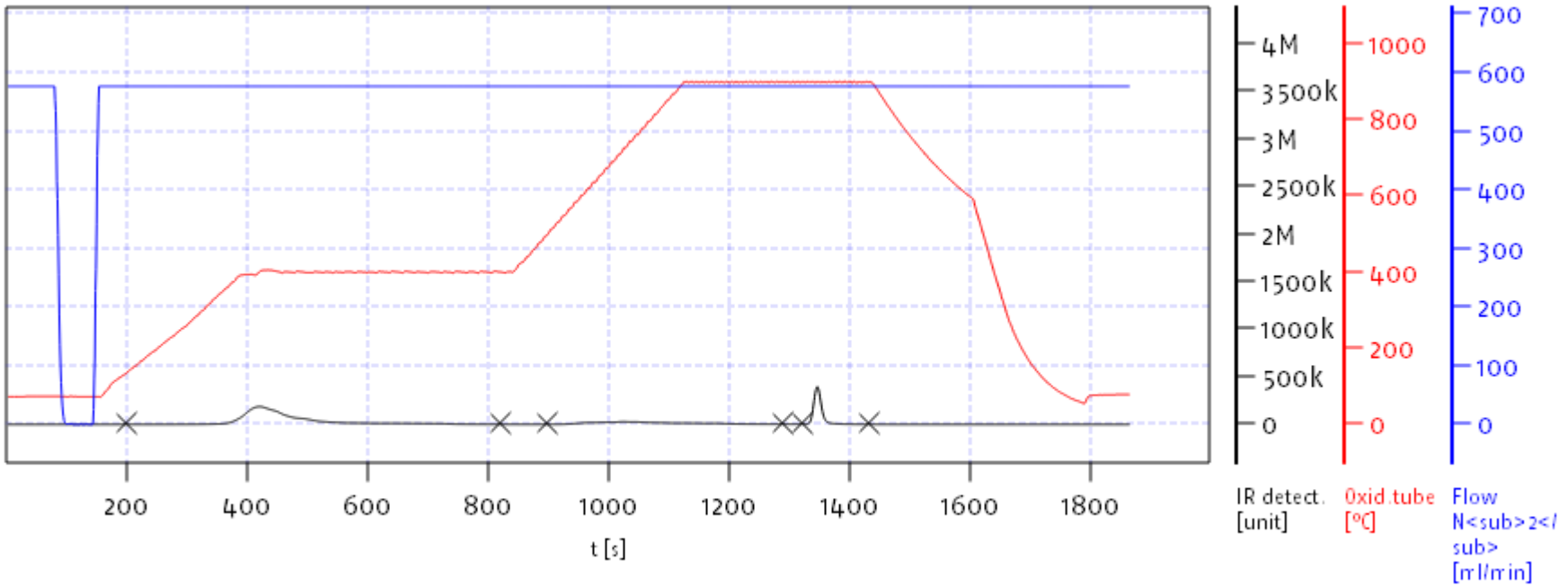
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
86	35	21H0184-02	319.90		1.00	CARBON	8/27/2021 11:31 AM	0.466	0.091	0.557	bl	693 735	184 376	224 532	0.9808	1.0000



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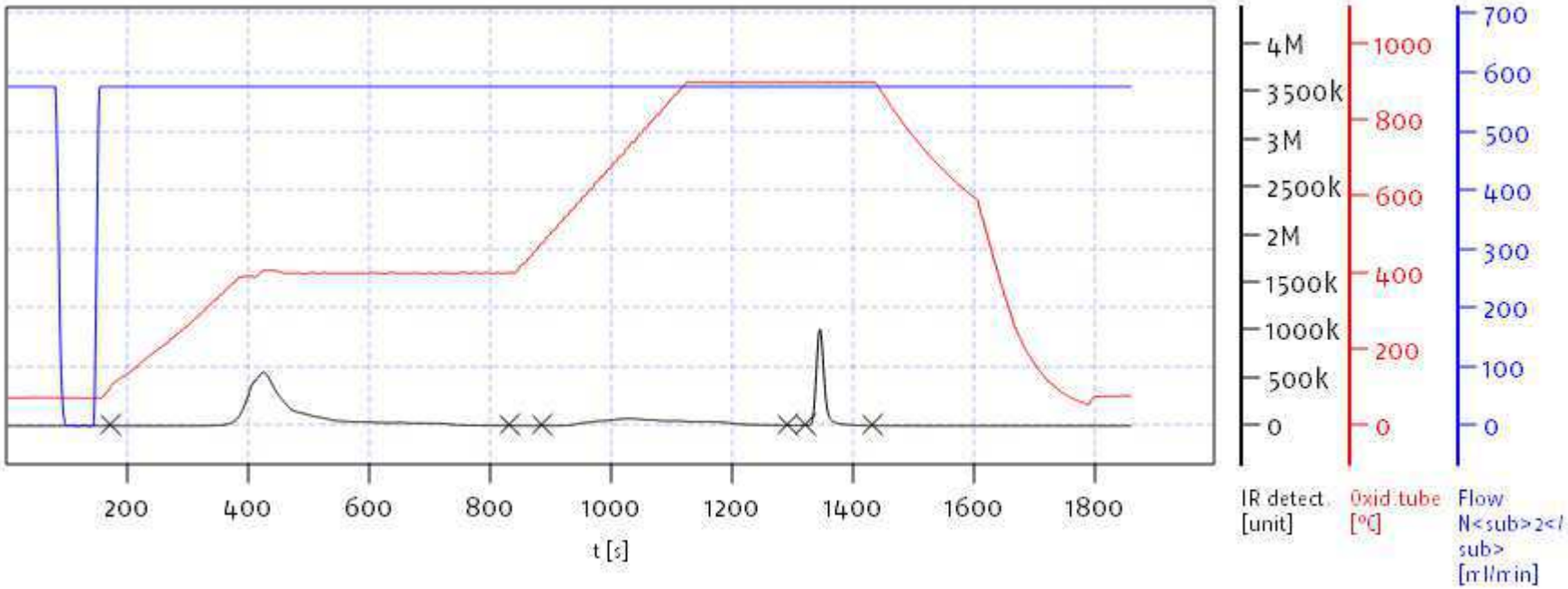
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
87	36	21H0184-03	526.60		1.00	CARBON	8/27/2021 12:03 PM	0.741	0.172	0.912	bl	1 774 540	546 694	592 063	0.9808	1.0000



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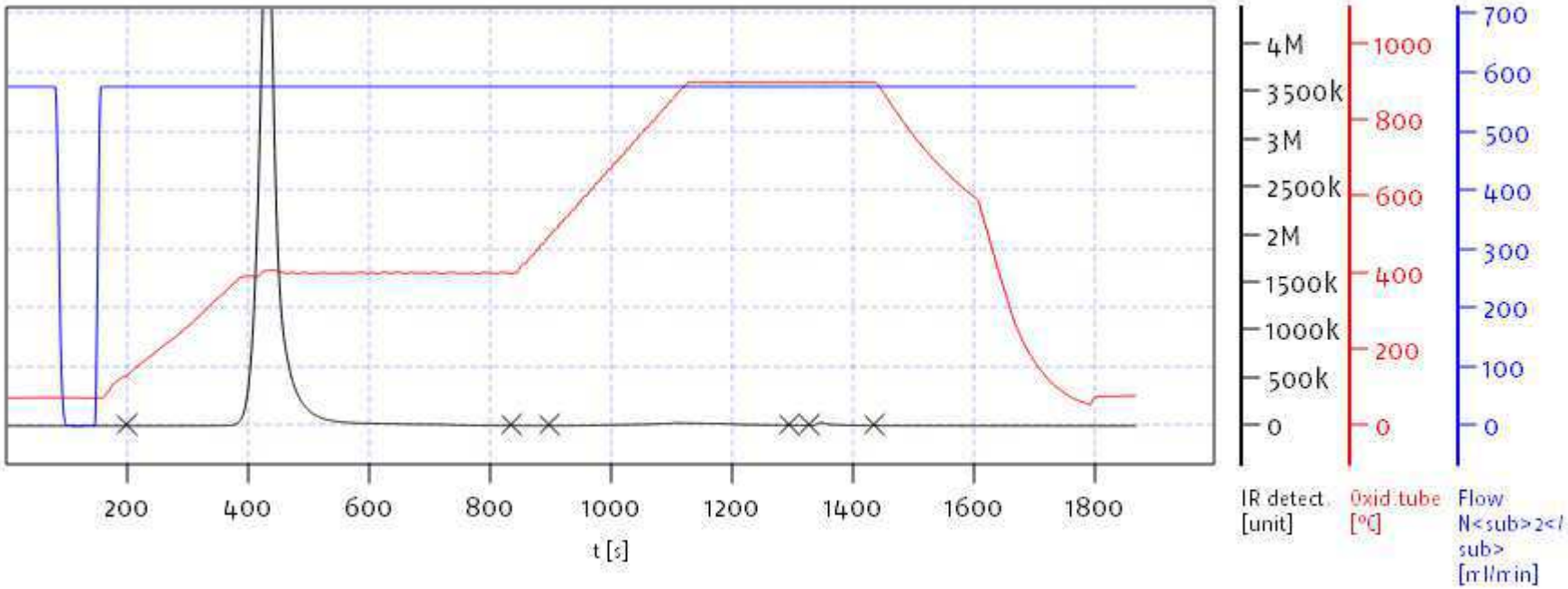
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
88	37	SJH0331-CCV7	27.10		1.00	CARBON	8/27/2021 12:34 PM	44.781	1.263	46.044	bl	7 306 970	214 316	42 302	0.9808	1.0000



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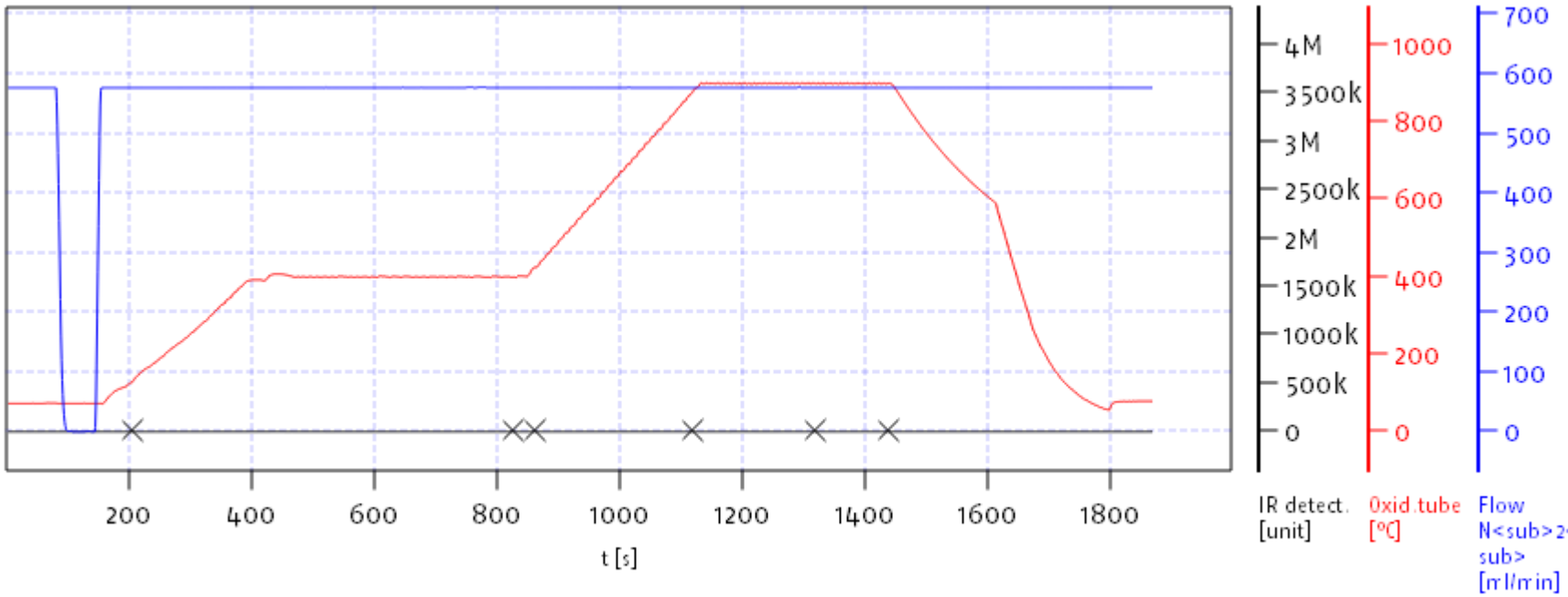
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
89	38	SJH0331-CCB7	695.50		1.00	CARBON	8/27/2021 1:06 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	1 587	48	62	0.9808	1.0000



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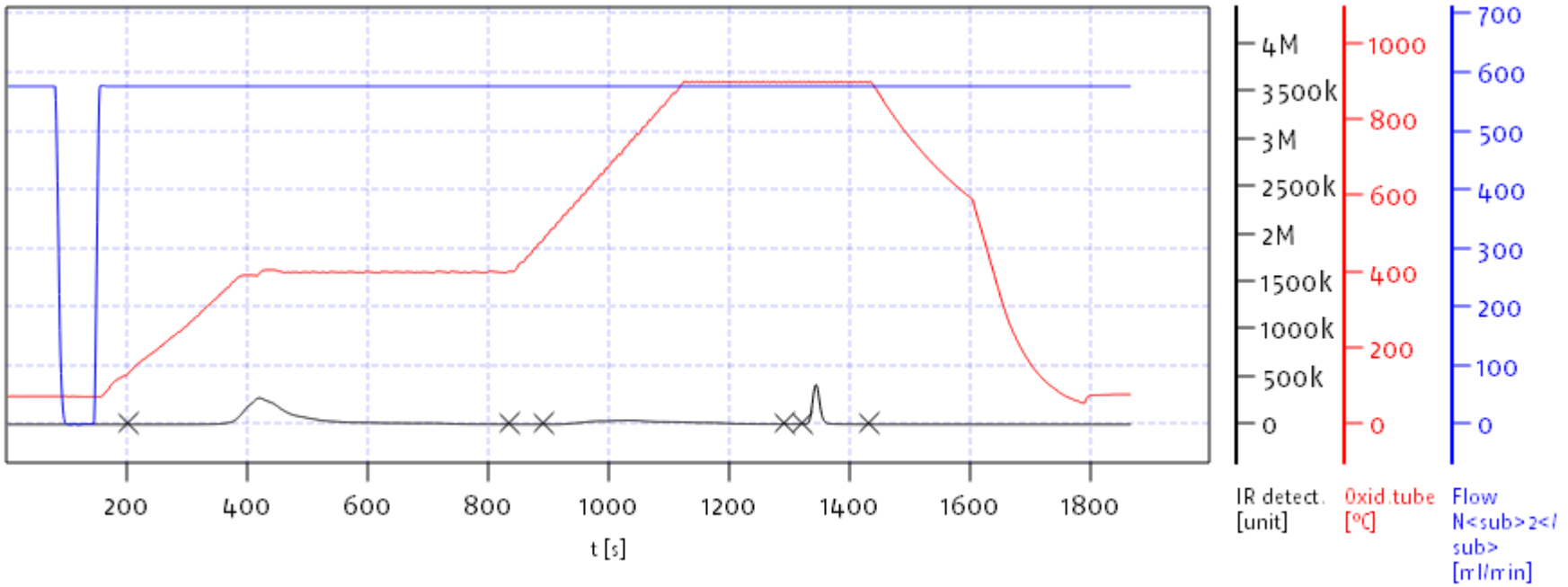
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
90	39	21H0184-04	393.70		1.00	CARBON	8/27/2021 1:38 PM	0.492	0.119	0.611	bl	963 846	288 789	225 300	0.9808	1.0000



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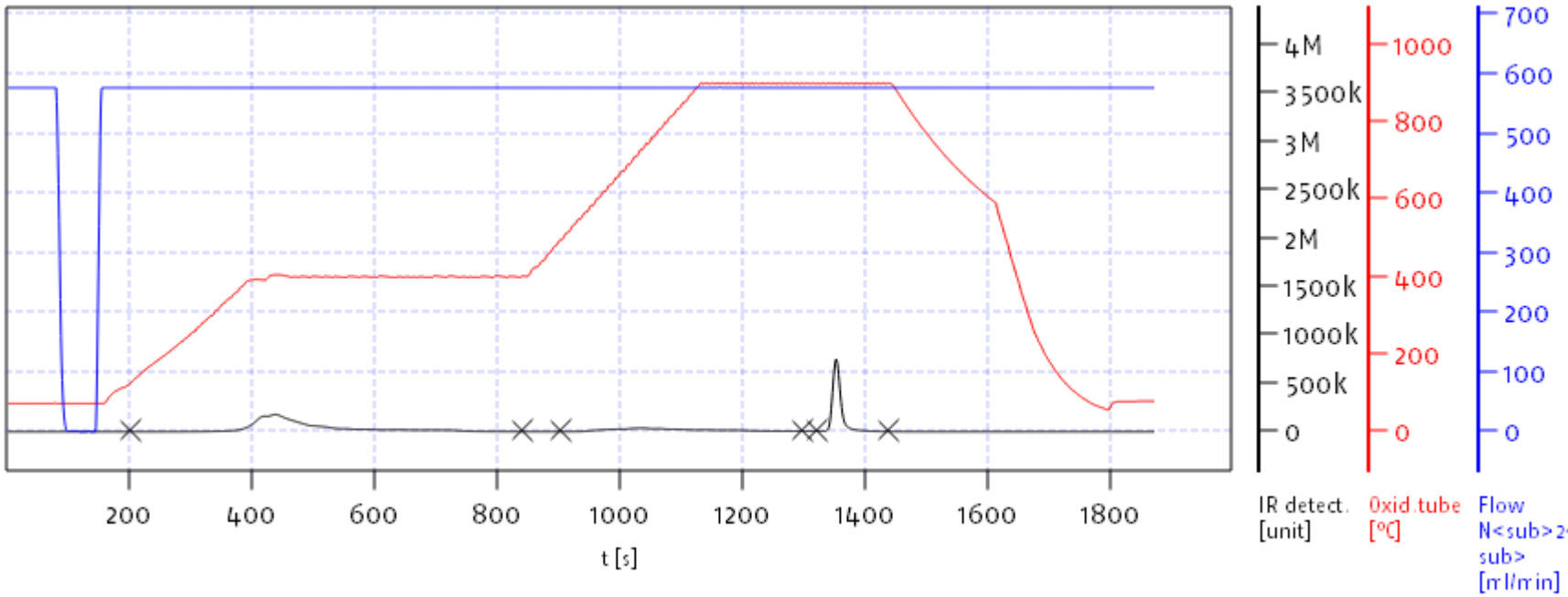
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
91	40	21H0184-05	349.50		1.00	CARBON	8/27/2021 2:09 PM	0.553	0.110	0.663	bl	744 608	240 260	437 124	0.9808	1.0000



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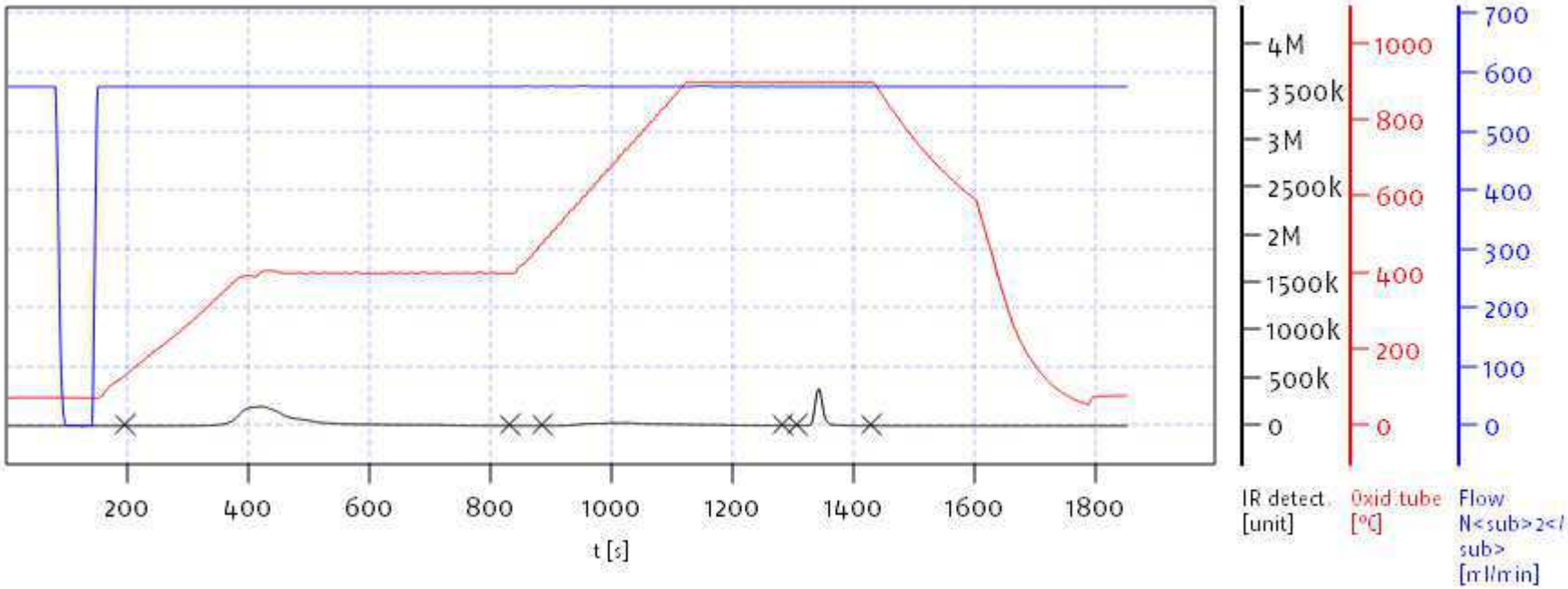
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
92	41	21H0184-06	341.10		1.00	CARBON	8/27/2021 2:41 PM	0.500	0.097	0.596	bl	825 519	206 956	222 455	0.9808	1.0000



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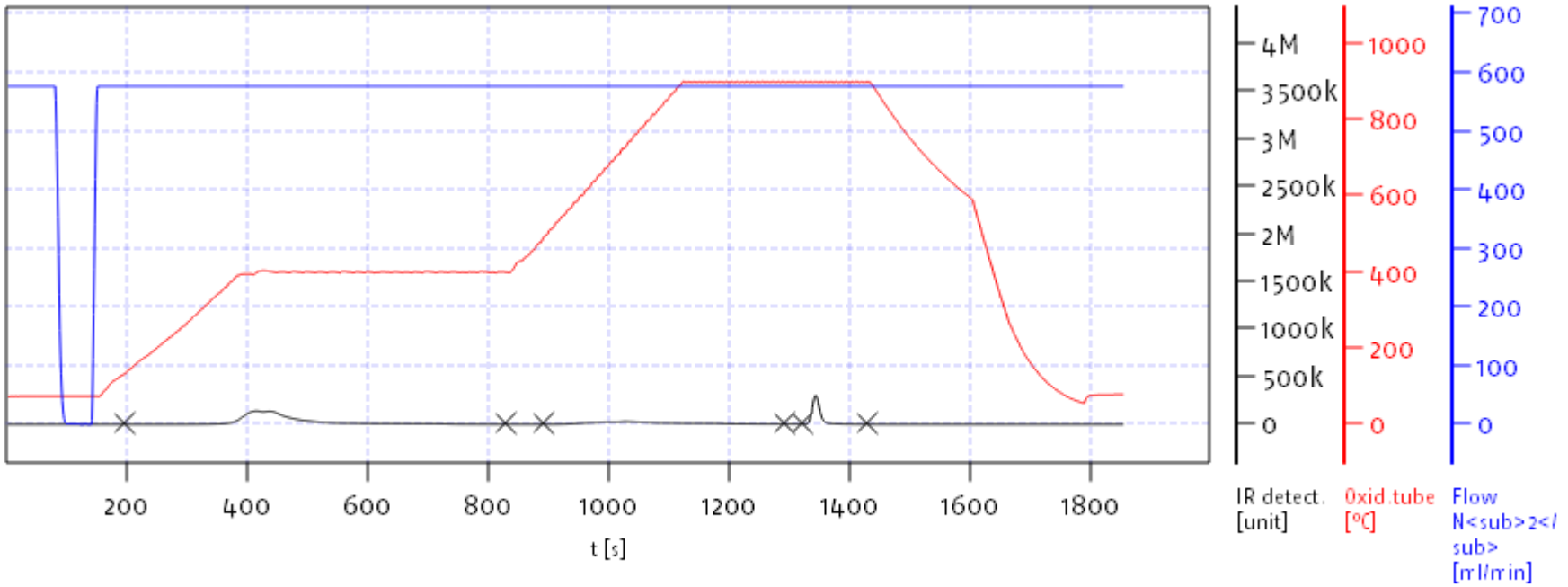
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
93	42	21H0184-07	370.40		1.00	CARBON	8/27/2021 3:12 PM	0.322	0.082	0.404	bl	564 895	191 885	174 826	0.9808	1.0000



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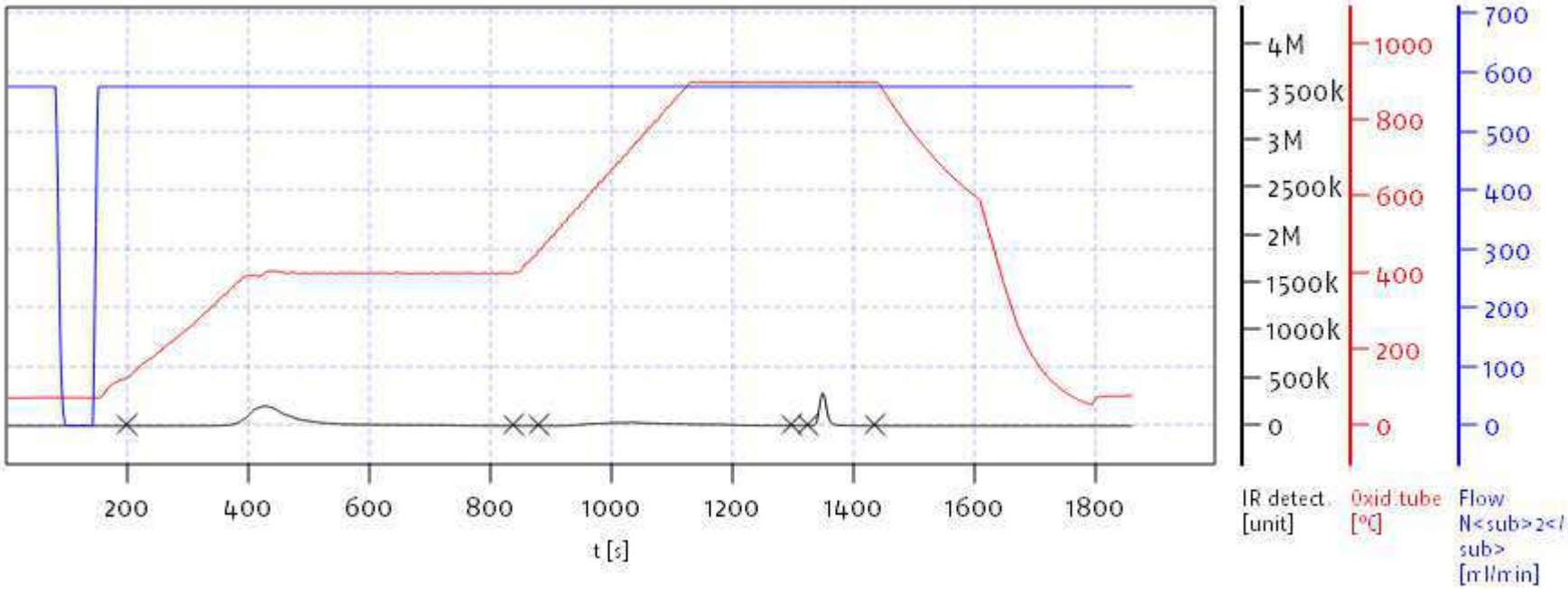
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
94	43	21H0184-08	373.40		1.00	CARBON	8/27/2021 3:44 PM	0.392	0.102	0.494	bl	713 486	236 589	189 620	0.9808	1.0000



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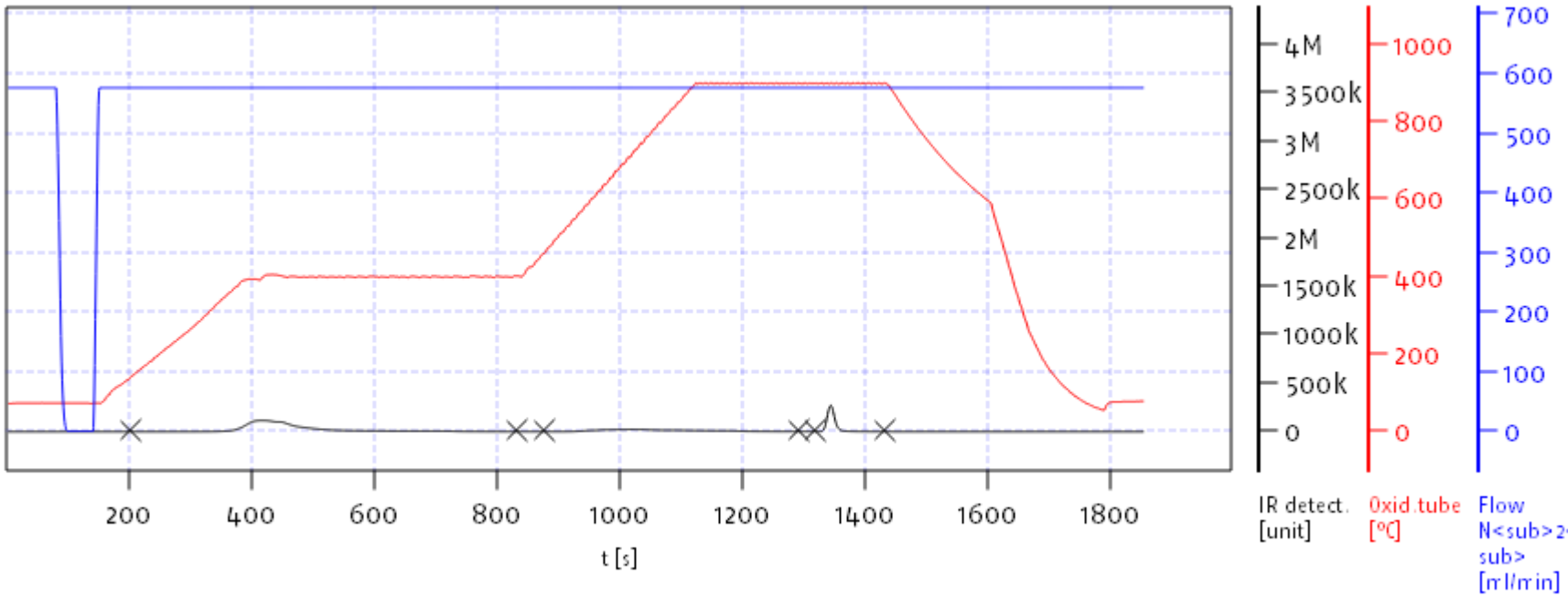
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
95	44	21H0184-09	358.60		1.00	CARBON	8/27/2021 4:15 PM	0.276	0.069	0.345	bl	469 728	158 825	148 800	0.9808	1.0000



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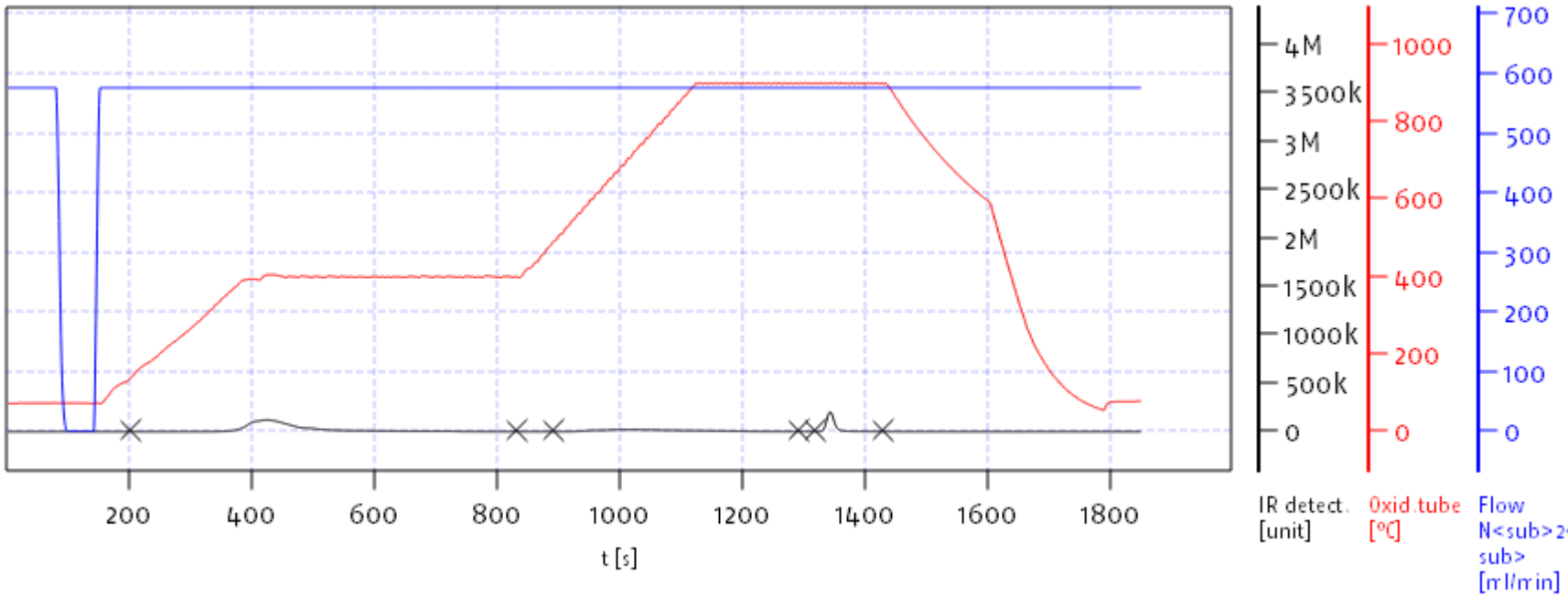
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
96	45	21H0184-10	306.60		1.00	CARBON	8/27/2021 4:46 PM	0.298	0.071	0.369	bl	455 082	139 894	117 552	0.9808	1.0000



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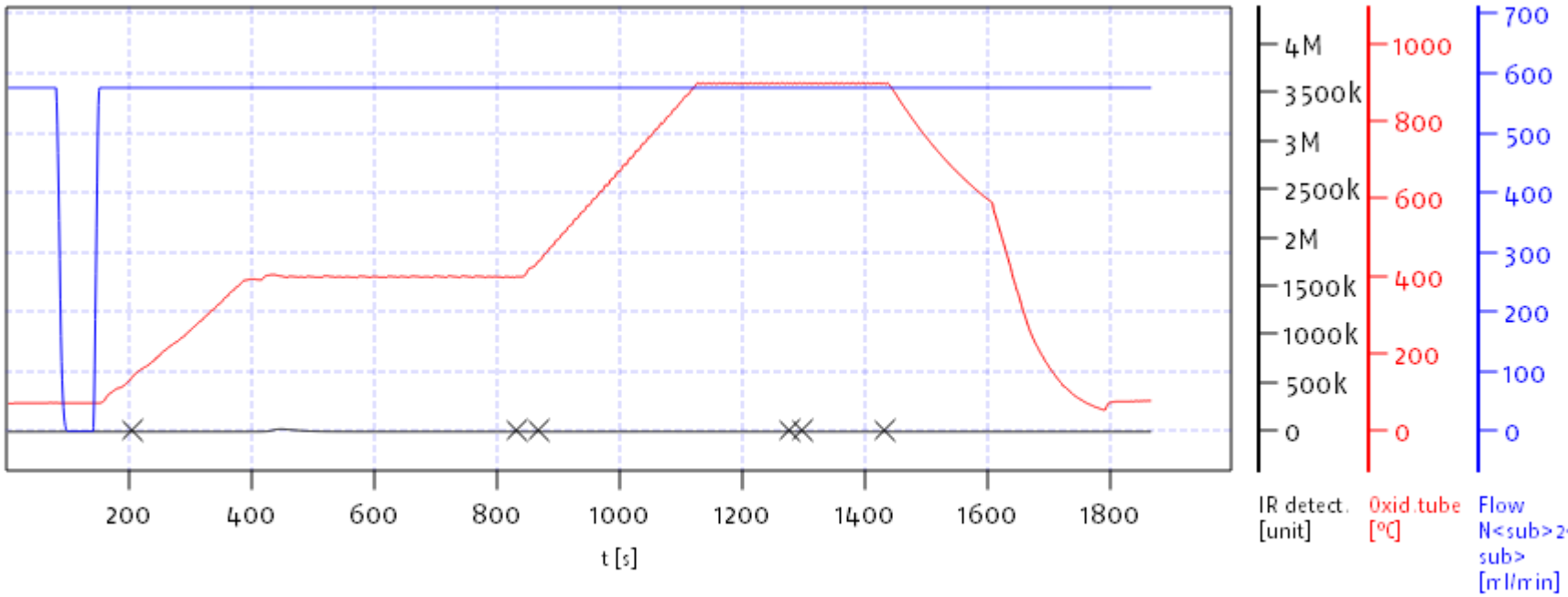
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
97	46	BJH0513-MRL1	500.20		1.00	CARBON	8/27/2021 5:18 PM	0.013	0.000	0.013	bl,C3u,C2u	51 185	4 331	286	0.9808	1.0000



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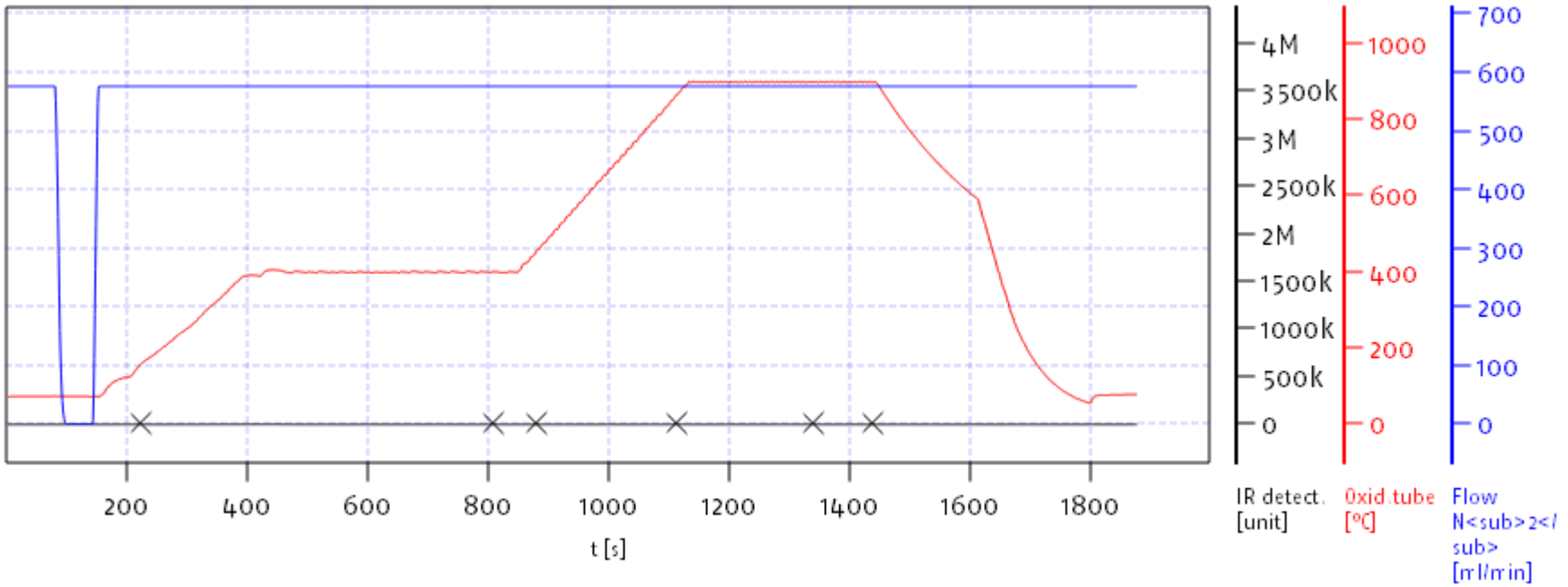
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
98	47	BJH0513-BLK1	571.50		1.00	CARBON	8/27/2021 5:50 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	7 247	601	259	0.9808	1.0000



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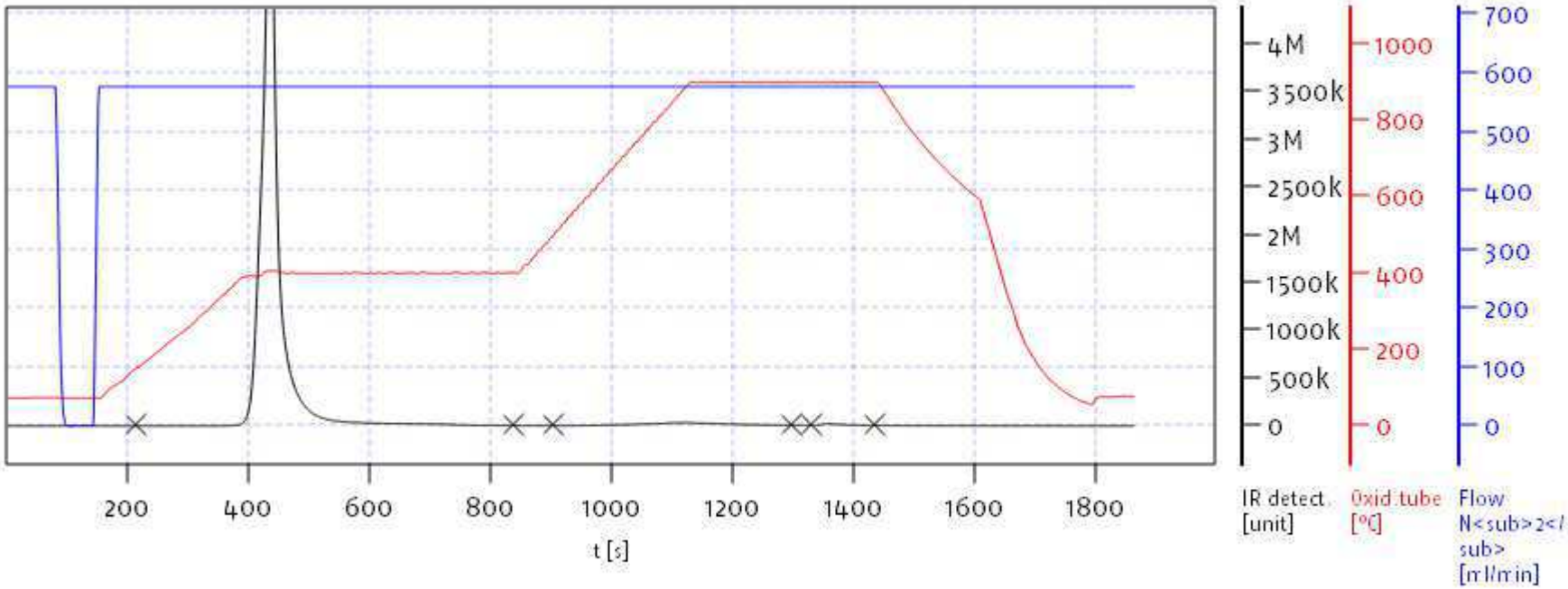
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
99	48	BJH0513-BS1	25.20		1.00	CARBON	8/27/2021 6:21 PM	44.727	1.438	46.165	bl	6 784 580	226 203	42 714	0.9808	1.0000



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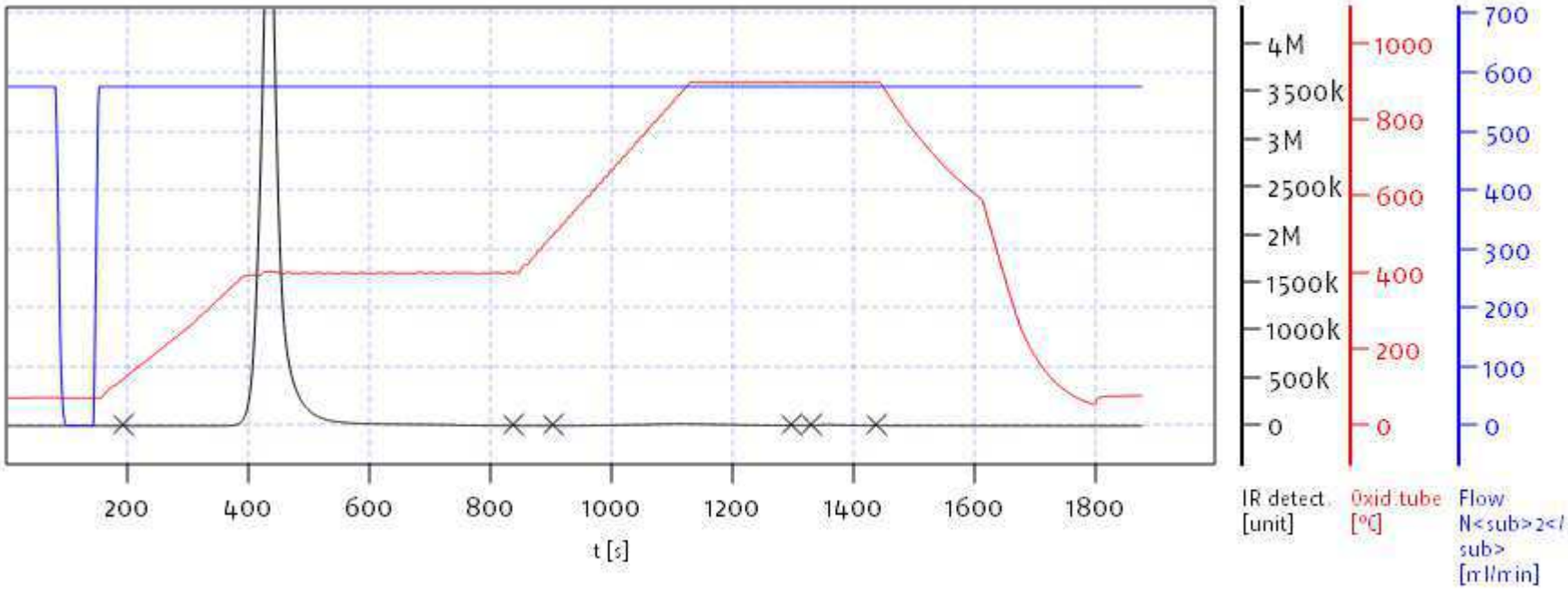
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
100	49	SJH0331-CCV8	26.70		1.00	CARBON	8/27/2021 6:53 PM	45.580	0.857	46.437	bl	7 346 060	147 195	24 181	0.9808	1.0000



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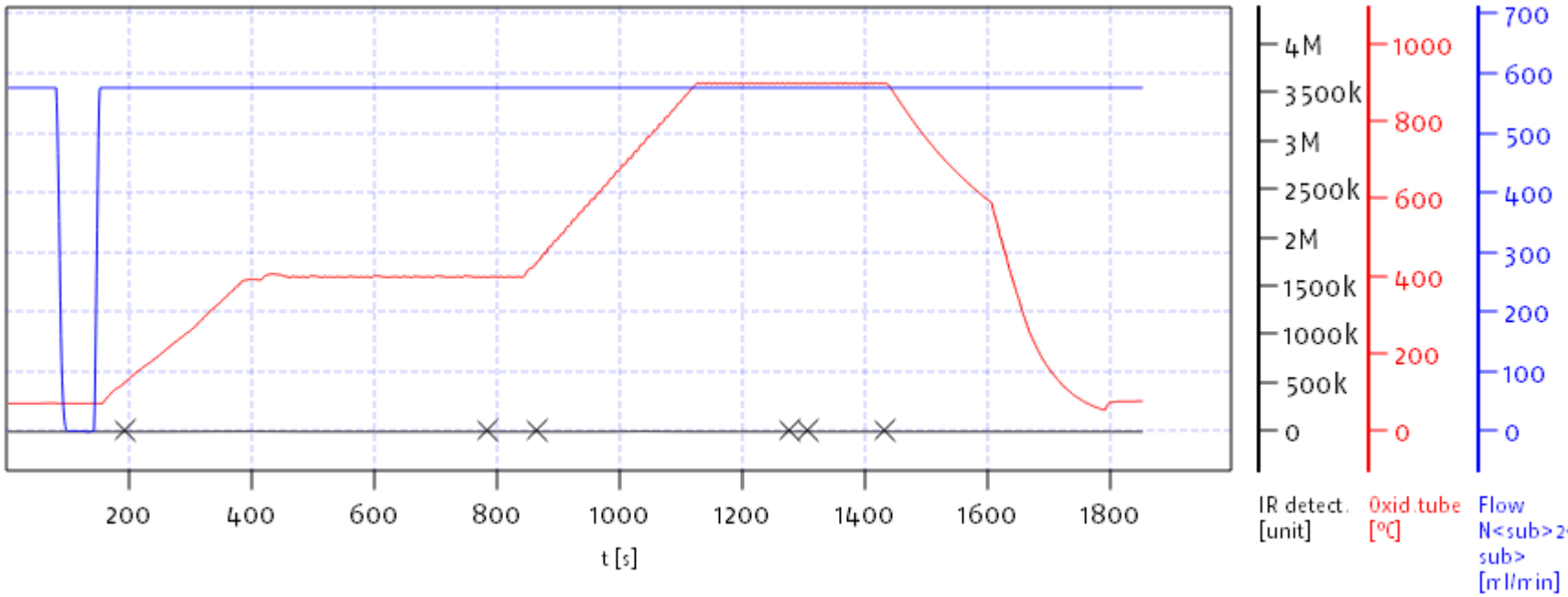
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
101	50	SJH0331-CCB8	587.00		1.00	CARBON	8/27/2021 7:24 PM	0.001	0.000	0.001	bl,C2u	16 174	10 034	388	0.9808	1.0000



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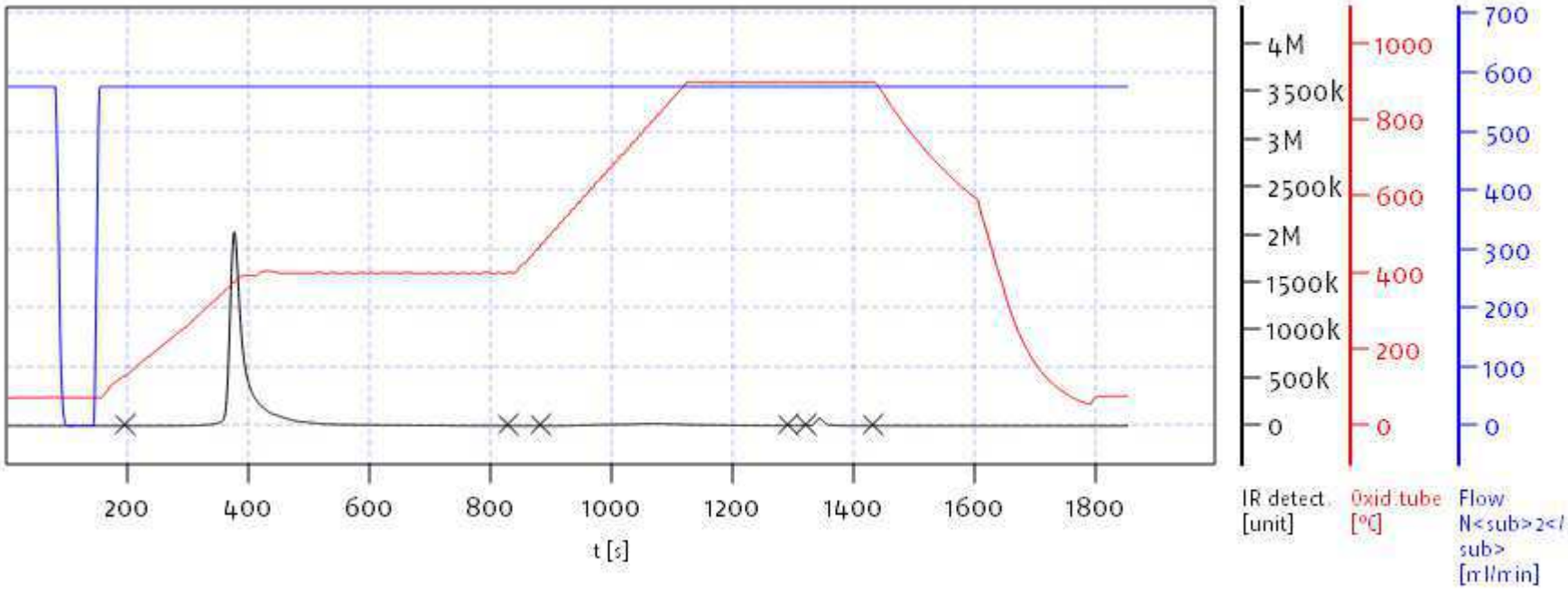
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
102	51	21H0103-01	107.50		1.00	CARBON	8/27/2021 7:56 PM	3.481	0.212	3.693	bl	2 231 660	146 521	50 144	0.9808	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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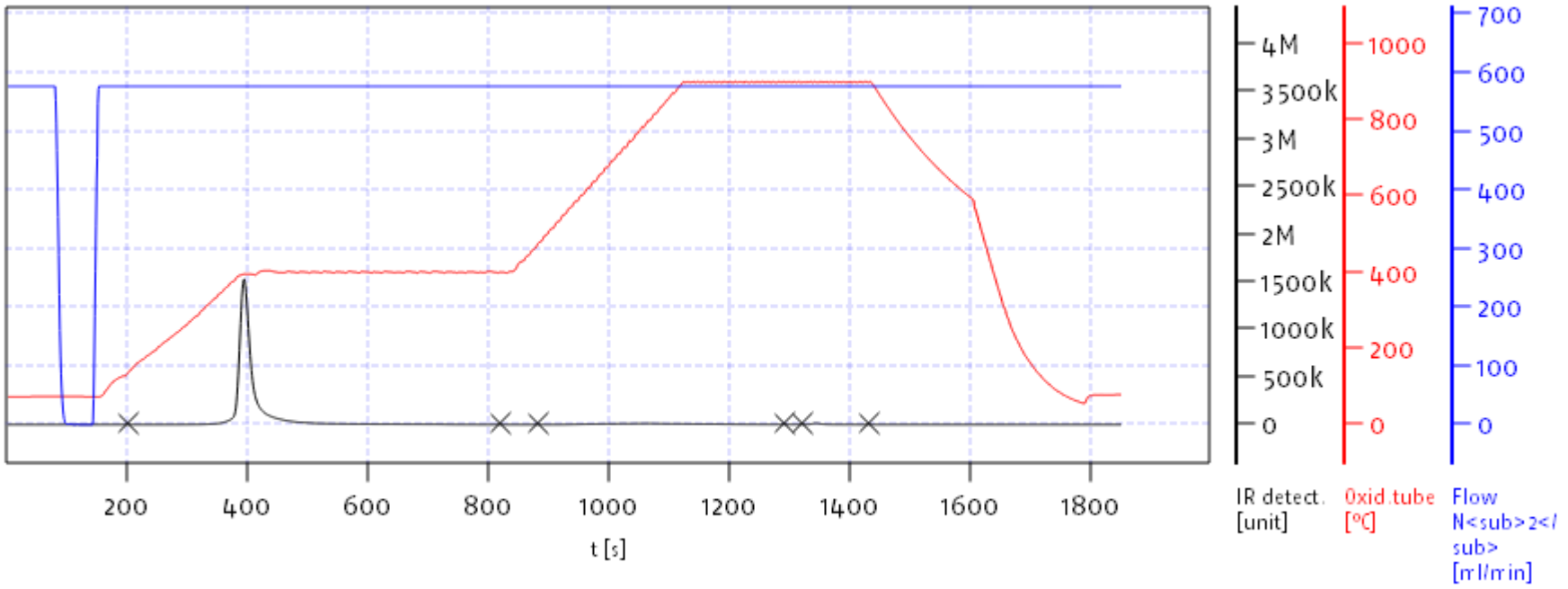
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
103	52	21H0103-02	115.30		1.00	CARBON	8/27/2021 8:27 PM	2.022	0.095	2.118	bl	1 419 470	76 665	11 001	0.9808	1.0000



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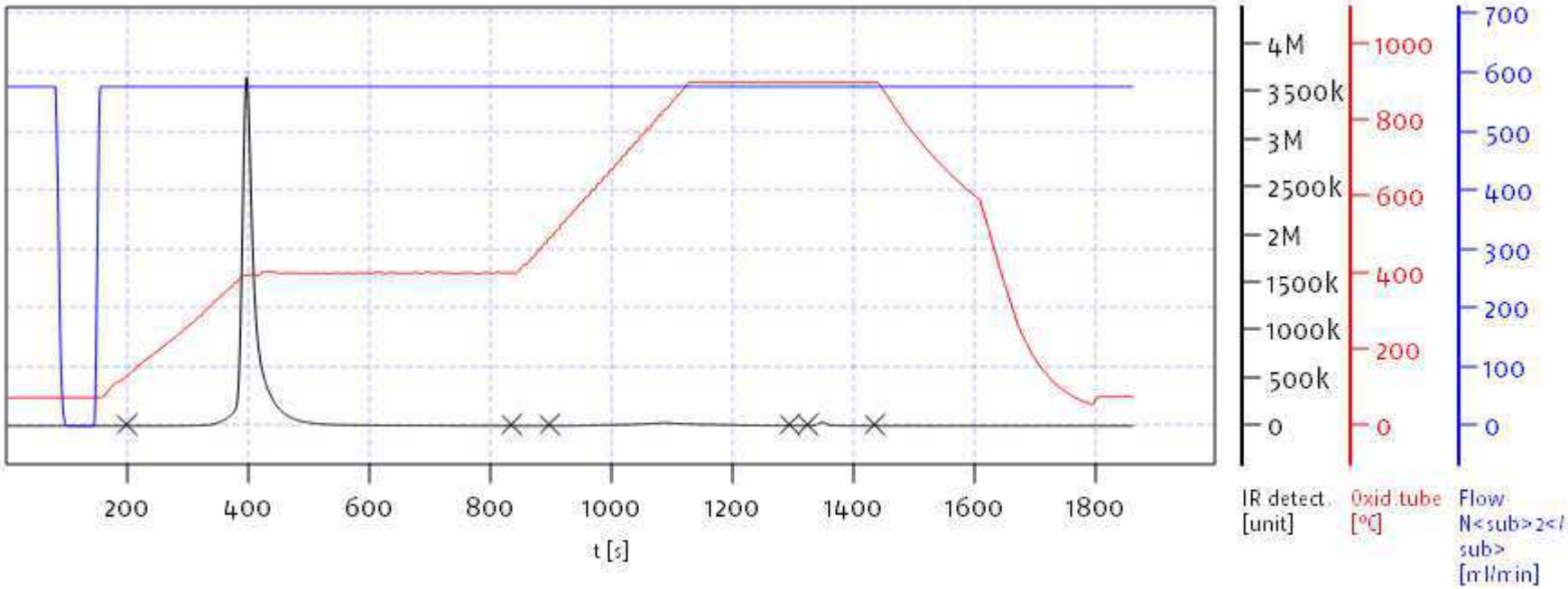
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
104	53	21H0103-03	107.10		1.00	CARBON	8/27/2021 8:59 PM	5.418	0.247	5.665	bl	3 497 970	168 576	28 083	0.9808	1.0000



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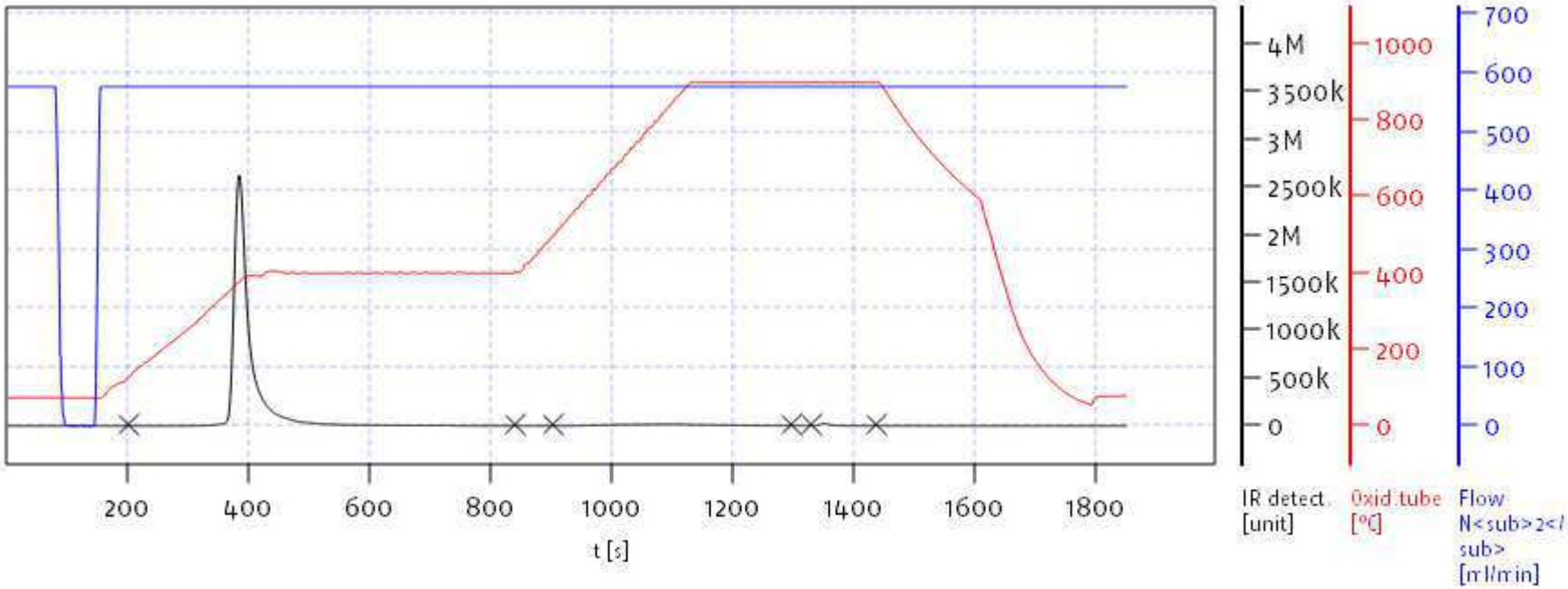
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
105	54	21H0103-04	149.90		1.00	CARBON	8/27/2021 9:30 PM	3.161	0.124	3.285	bl	2 864 670	121 706	19 422	0.9808	1.0000



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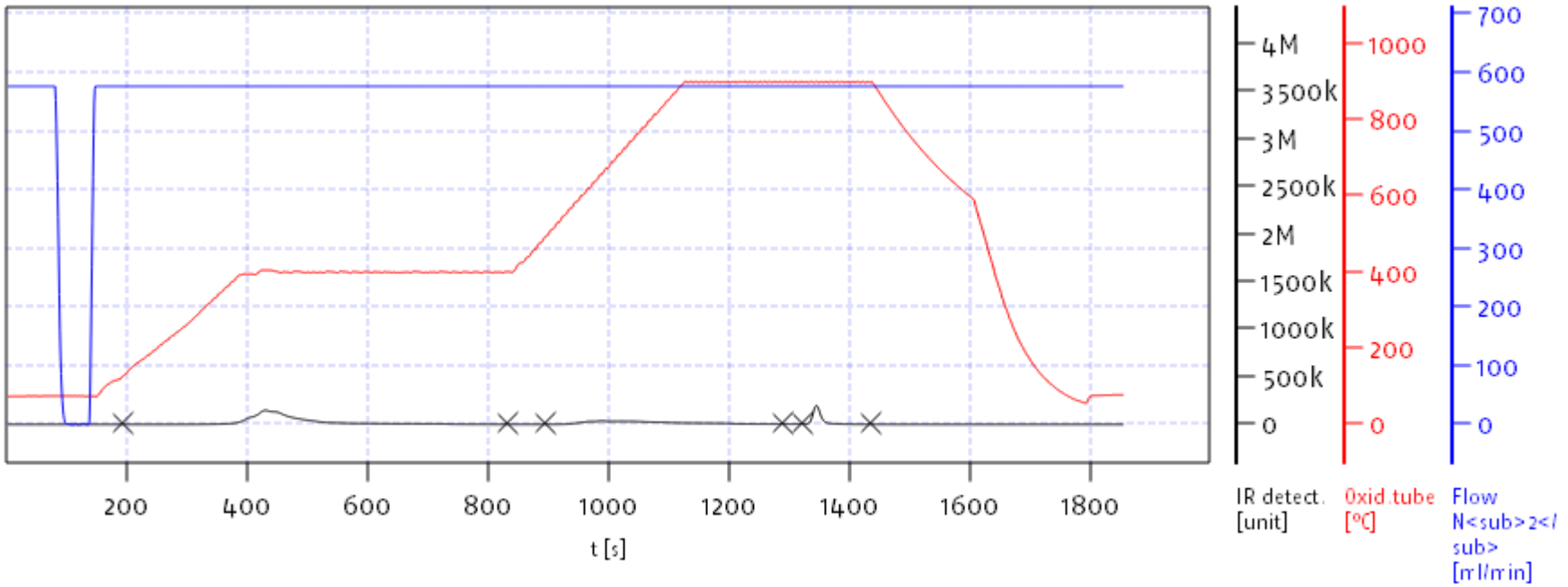
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
106	55	21H0176-01	541.00		1.00	CARBON	8/27/2021 10:01 PM	0.188	0.072	0.260	bl	515 890	241 787	120 500	0.9808	1.0000



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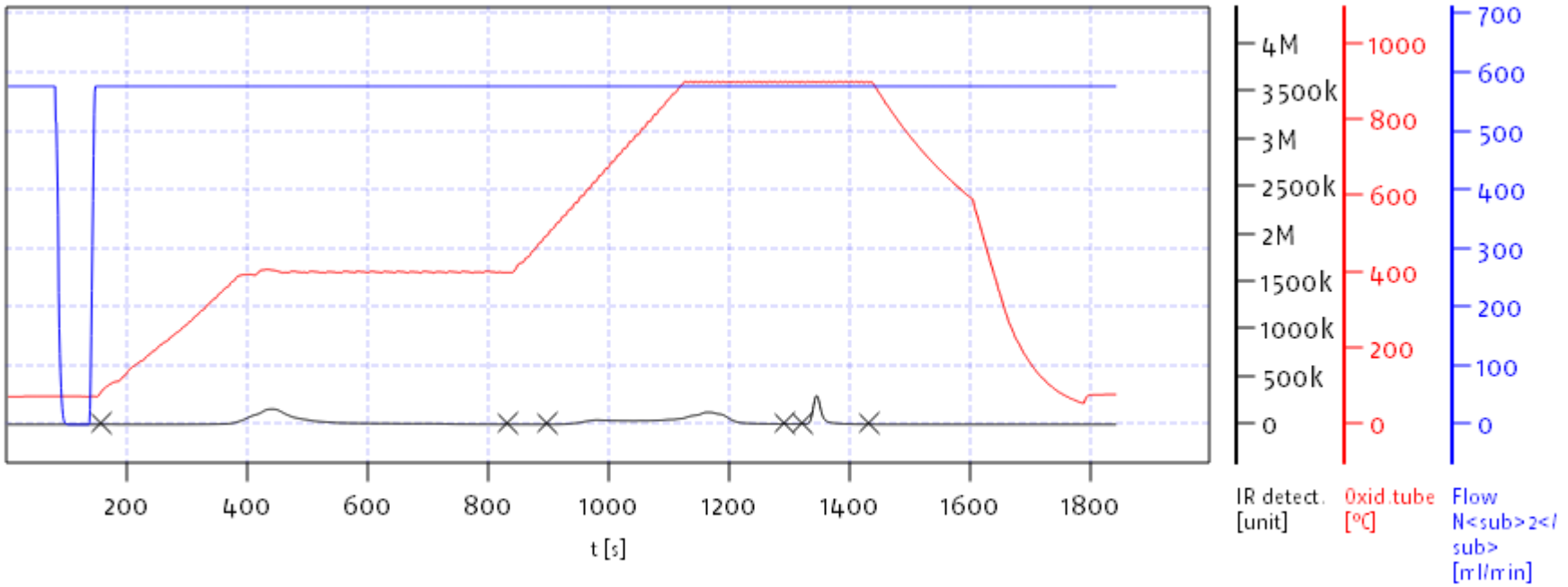
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
107	56	BJH0513-DUP1	581.10		1.00	CARBON	8/27/2021 10:33 PM	0.213	0.178	0.390	bl	577 819	622 448	187 712	0.9808	1.0000



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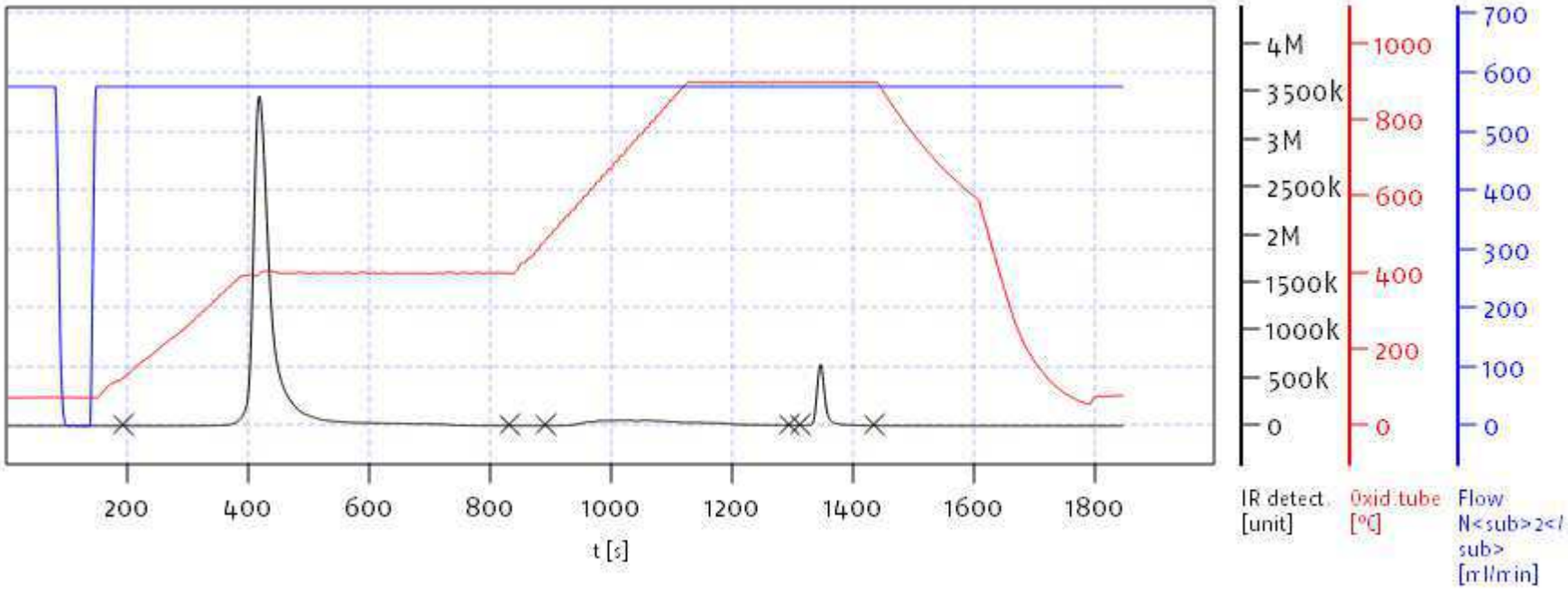
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
108	57	BJH0513-MS1	676.20	0.0142	1.00	CARBON	8/27/2021 11:04 PM	1.188	0.112	1.300	bl	4 484 310	458 939	382 479	0.9808	1.0000



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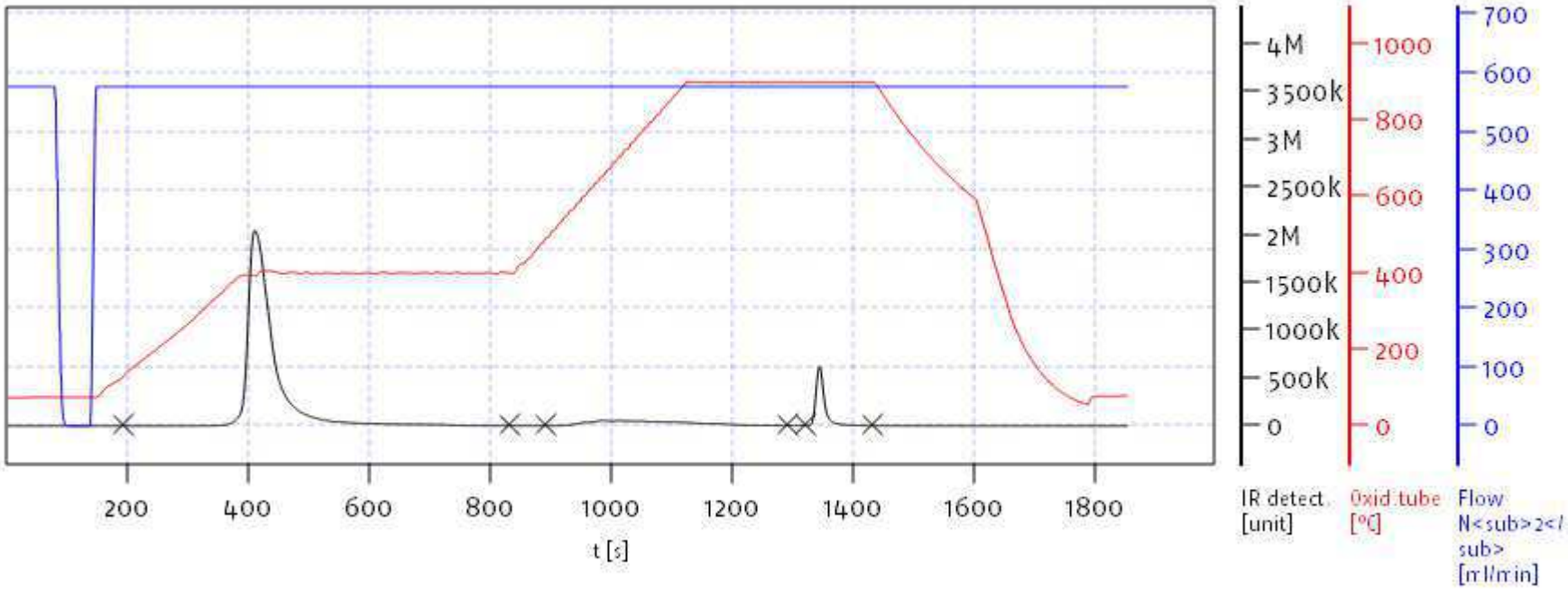
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
109	58	BJH0513-MSD1	535.30	0.0122	1.00	CARBON	8/27/2021 11:35 PM	1.231	0.124	1.355	bl	3 614 900	405 006	377 980	0.9808	1.0000



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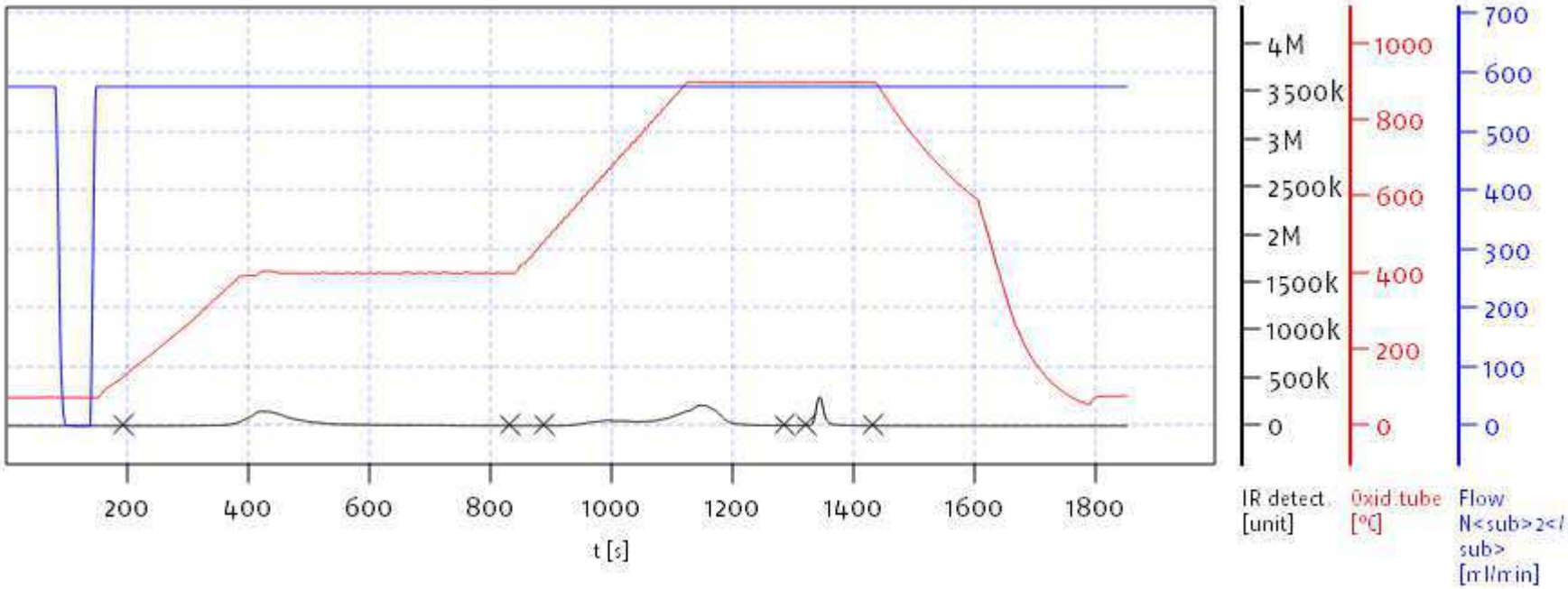
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
110	59	21H0176-02	541.10		1.00	CARBON	8/28/2021 12:07 AM	0.228	0.268	0.496	bl	581 433	870 357	184 279	0.9808	1.0000



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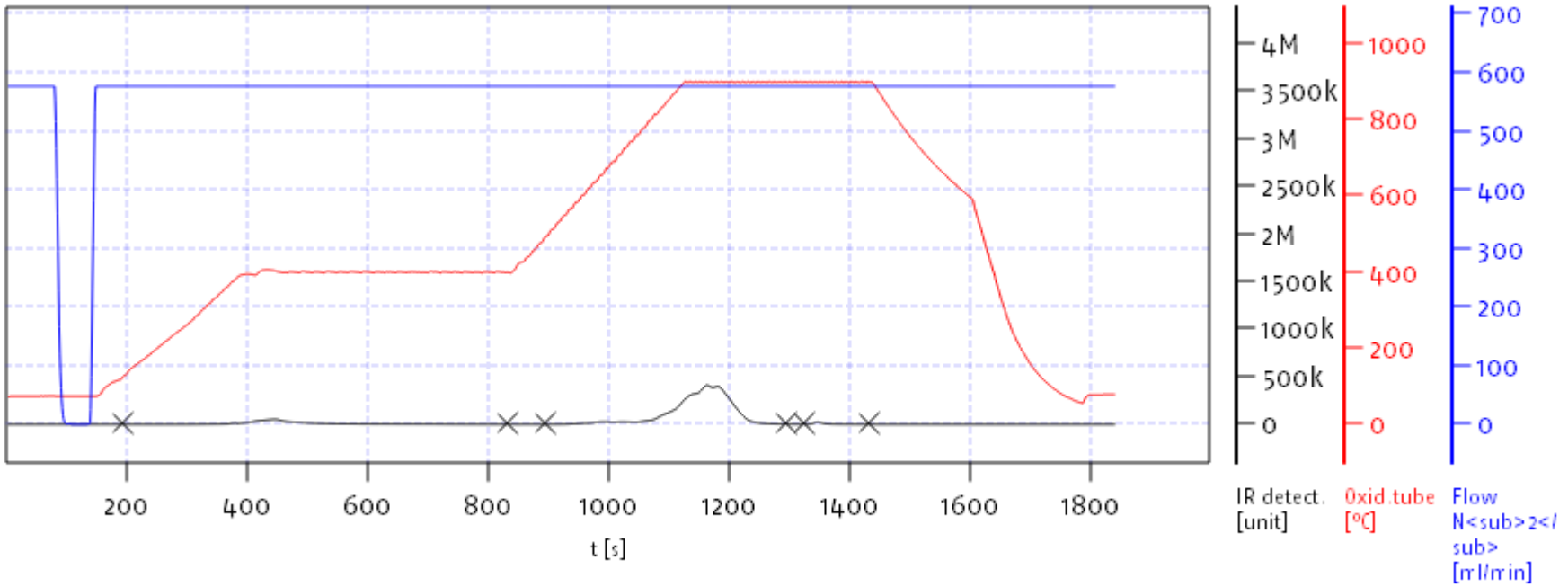
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
111	60	21H0176-03	416.50		1.00	CARBON	8/28/2021 12:38 AM	0.077	0.631	0.708	bl	197 028	1 568 240	20 300	0.9808	1.0000



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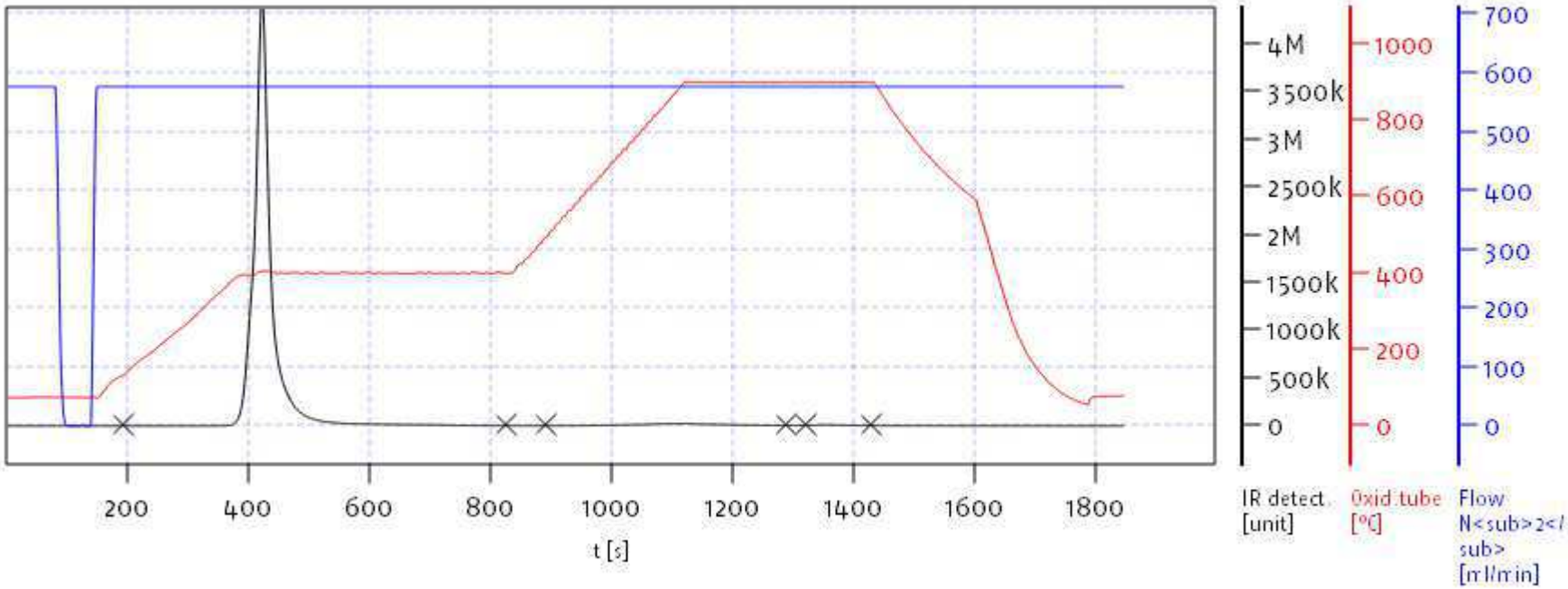
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
112	61	SJH0331-CCV9	20.30		1.00	CARBON	8/28/2021 1:09 AM	43.170	1.200	44.370	bl	5 288 560	155 914	25 110	0.9808	1.0000



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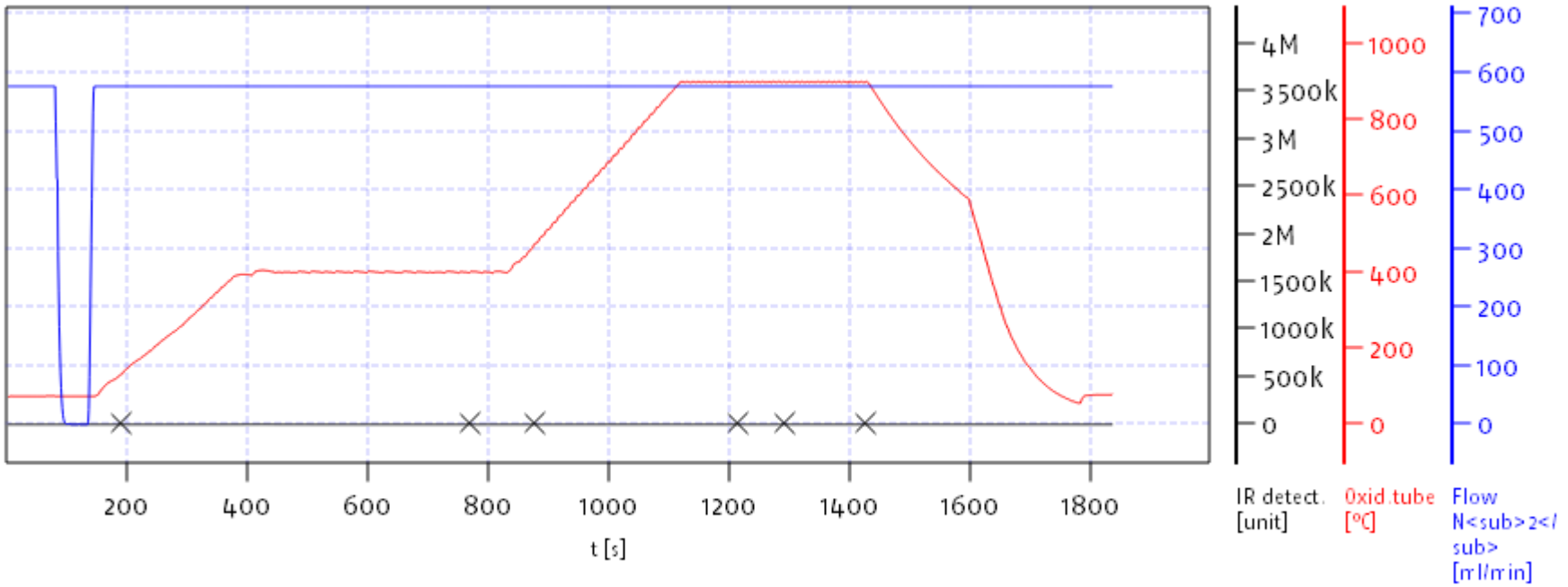
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
113	62	SJH0331-CCB9	597.10		1.00	CARBON	8/28/2021 1:40 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	2 135	522	52	0.9808	1.0000



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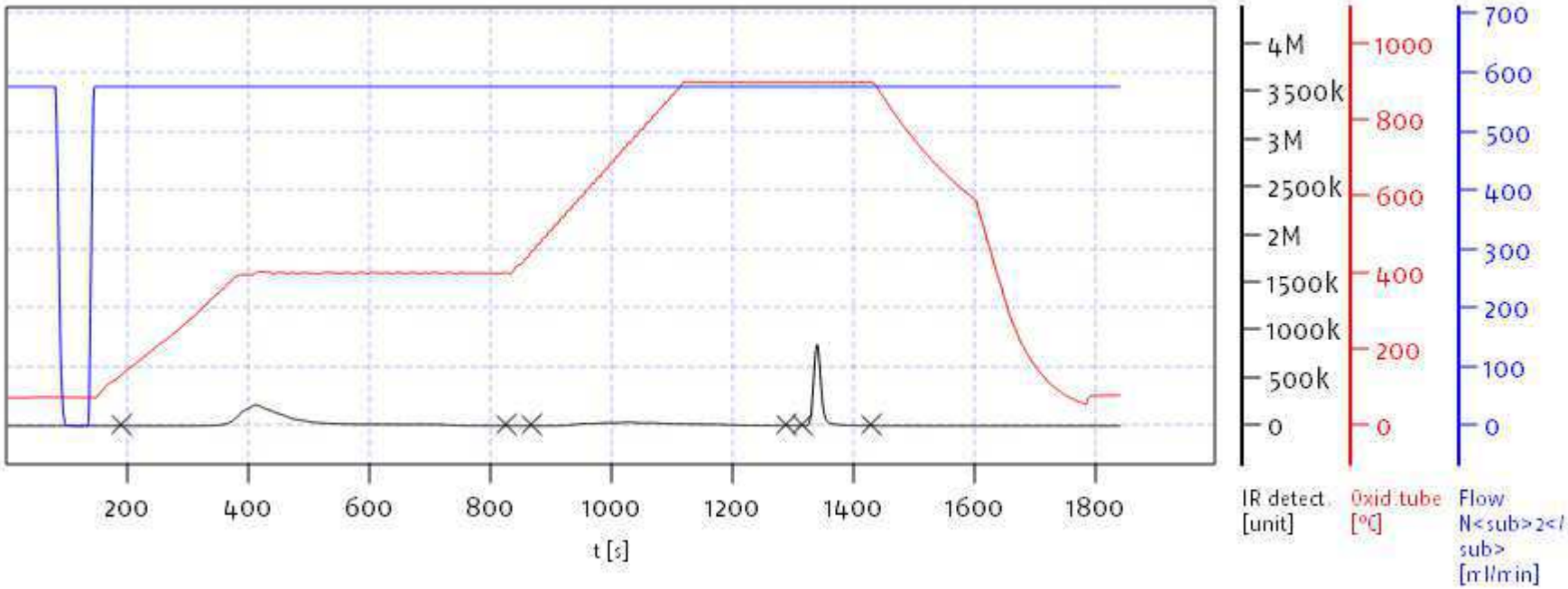
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
114	63	21H0184-11	319.30		1.00	CARBON	8/28/2021 2:11 AM	0.657	0.131	0.788	bl	812 426	258 742	468 624	0.9808	1.0000



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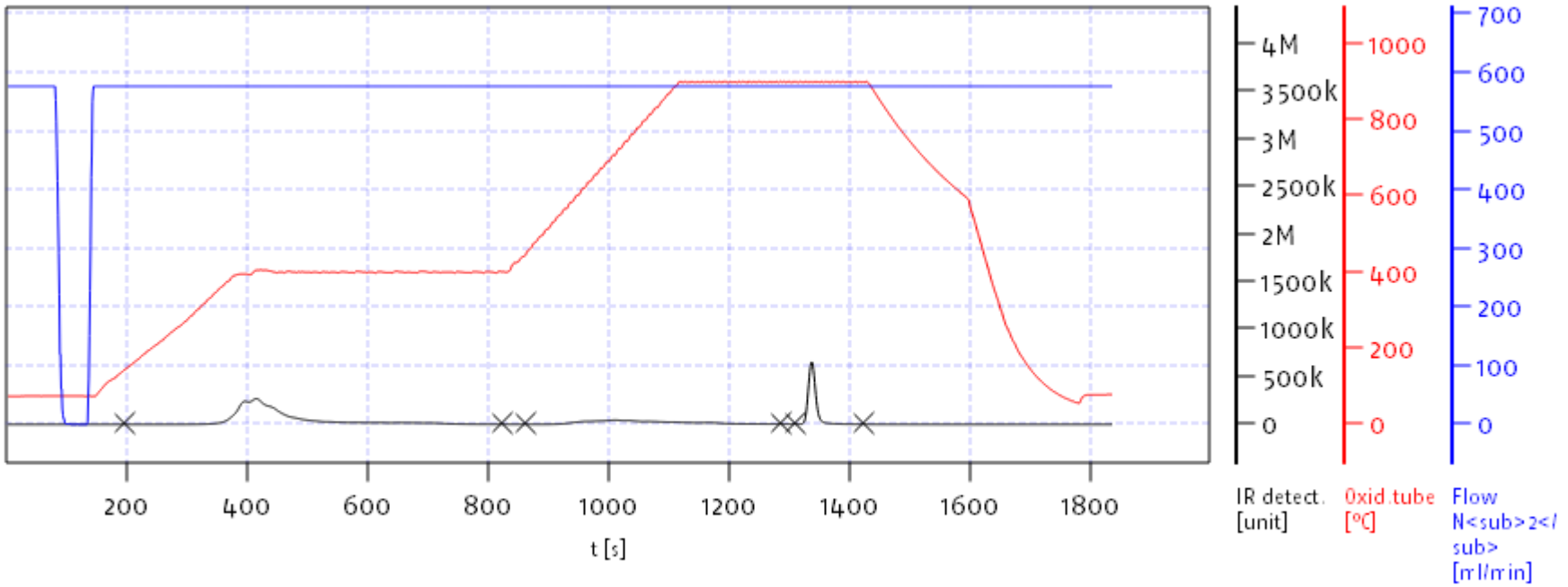
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
115	64	BJH0513-DUP3	383.80		1.00	CARBON	8/28/2021 2:42 AM	0.561	0.127	0.688	bl	960 731	300 644	356 407	0.9808	1.0000



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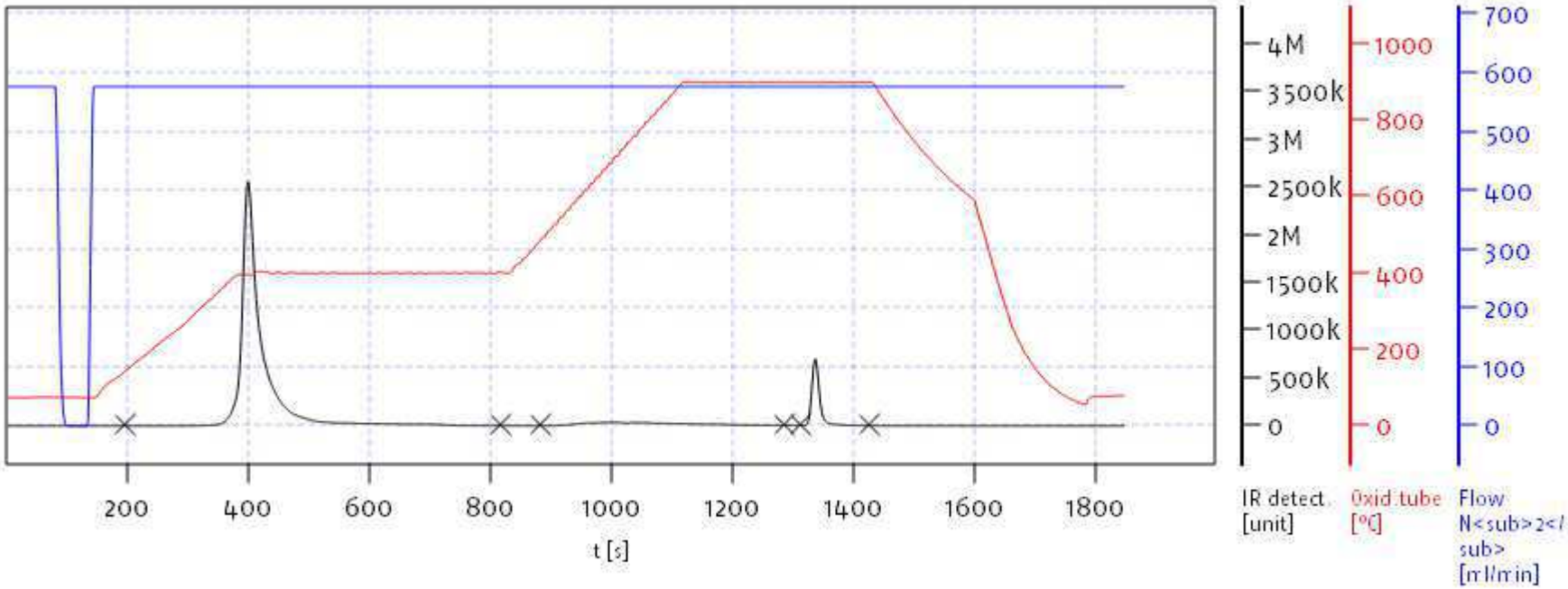
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
116	65	BJH0513-MS3	313.40	0.0104	1.00	CARBON	8/28/2021 3:13 AM	2.034	0.150	2.185	bl	3 467 590	290 894	396 867	0.9808	1.0000



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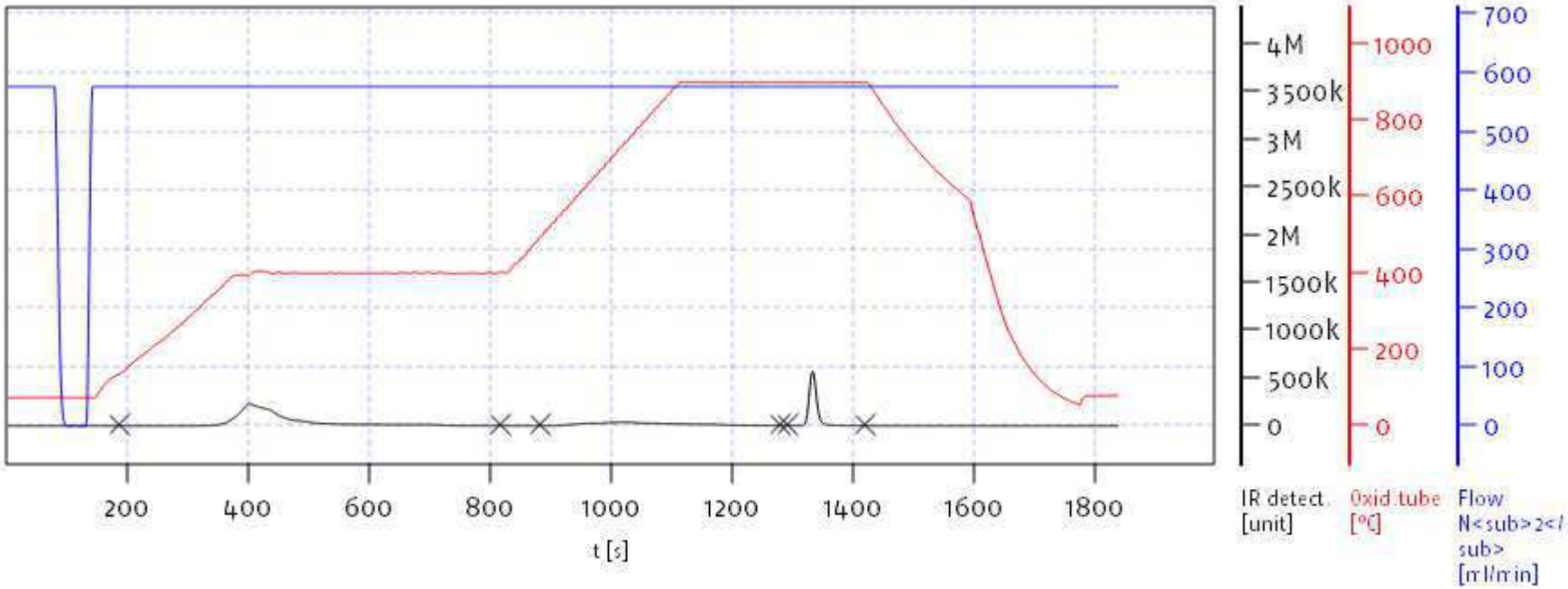
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
117	66	21H0184-12	306.00		1.00	CARBON	8/28/2021 3:45 AM	0.585	0.135	0.720	bl	786 153	255 459	312 050	0.9808	1.0000



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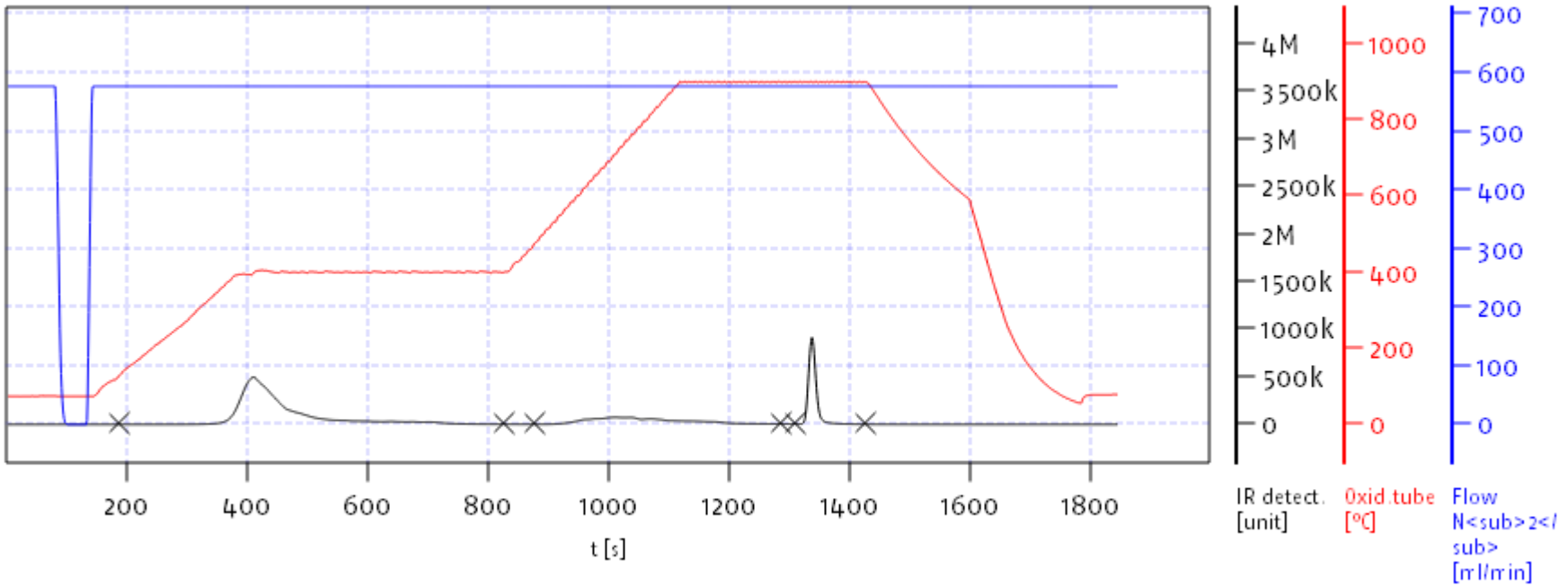
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
118	67	21H0184-13	597.90		1.00	CARBON	8/28/2021 4:16 AM	0.589	0.140	0.729	bl	1 637 950	506 802	502 418	0.9808	1.0000



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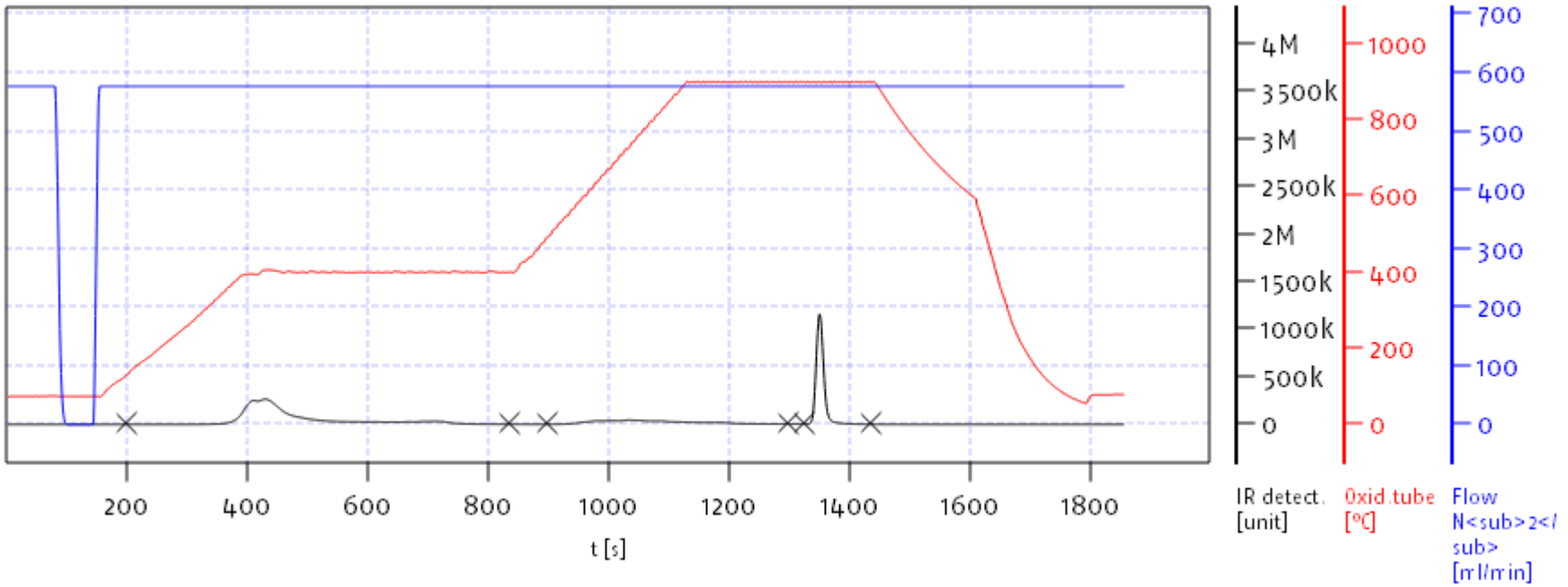
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
119	68	21H0184-14	283.00		1.00	CARBON	8/28/2021 4:47 AM	0.977	0.184	1.160	bl	1 042 850	319 175	637 140	0.9808	1.0000



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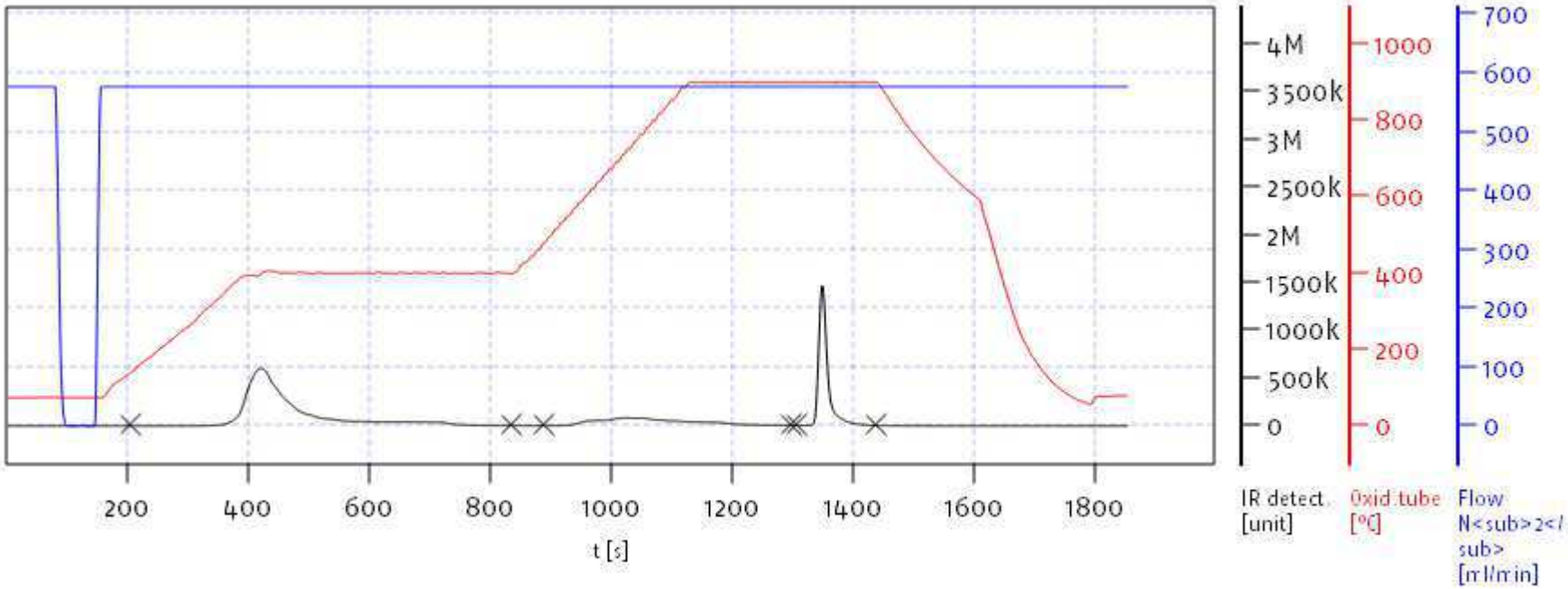
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
120	69	21H0184-15	519.90		1.00	CARBON	8/28/2021 5:18 AM	0.944	0.182	1.126	bl	2 016 720	573 102	951 018	0.9808	1.0000



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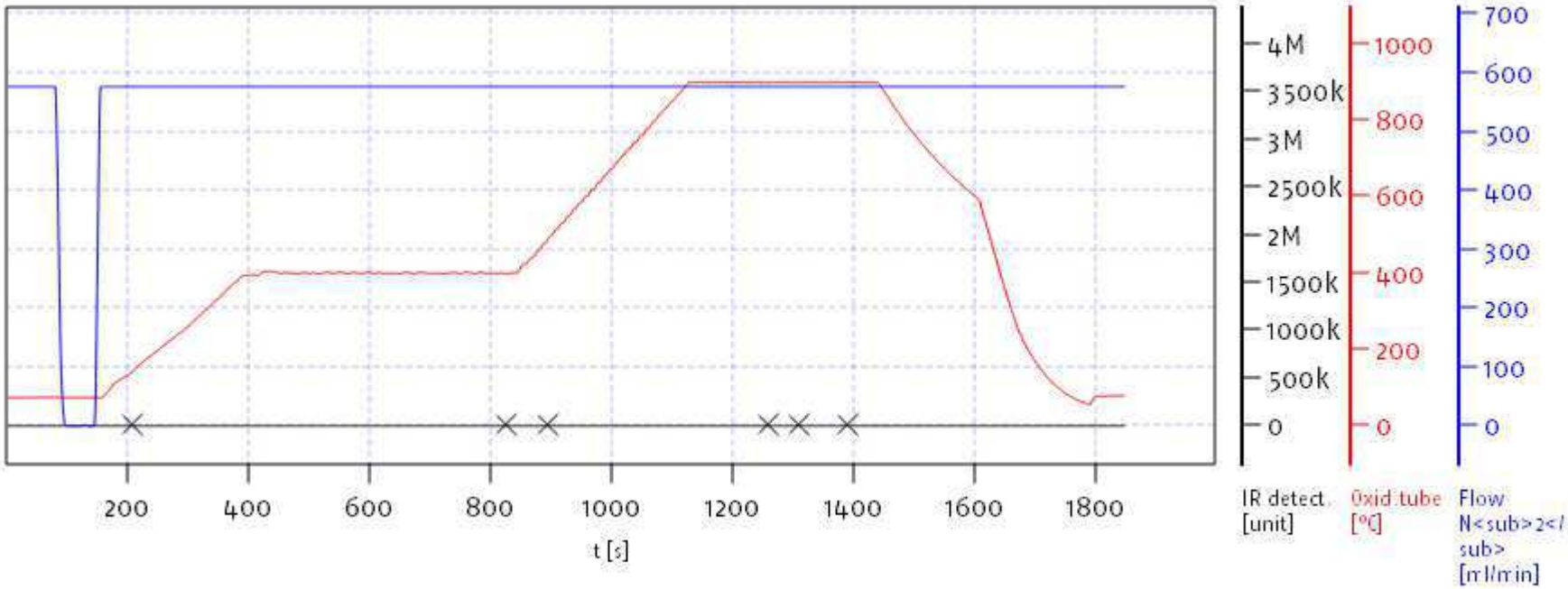
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
121	70	BLANK	1.00		1.00	CARBON	8/28/2021 5:50 AM	0.000	0.000	0.000	bl	1 460	264	159	0.9808	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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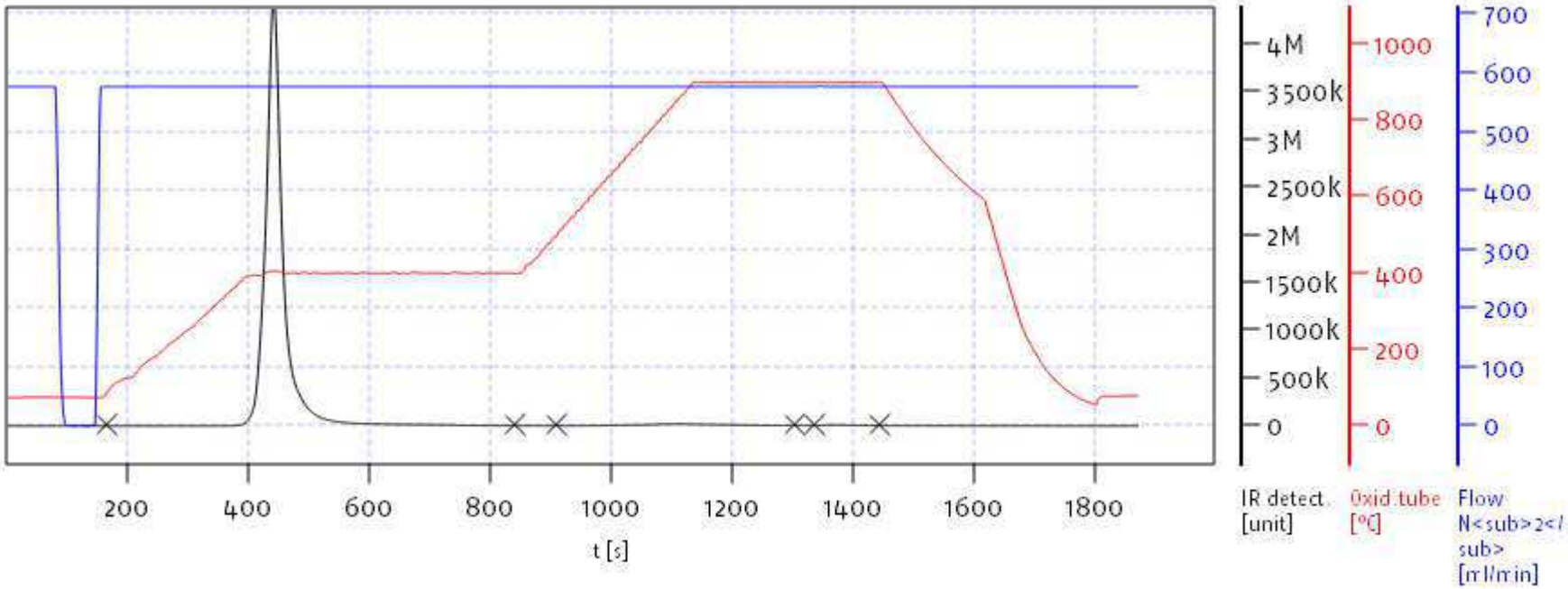
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
122	71	Dfactor	20.90		1.00	CARBON	8/28/2021 6:21 AM	44.549	0.999	45.547	bl	5 558 350	135 245	24 453	0.9916	1.0000



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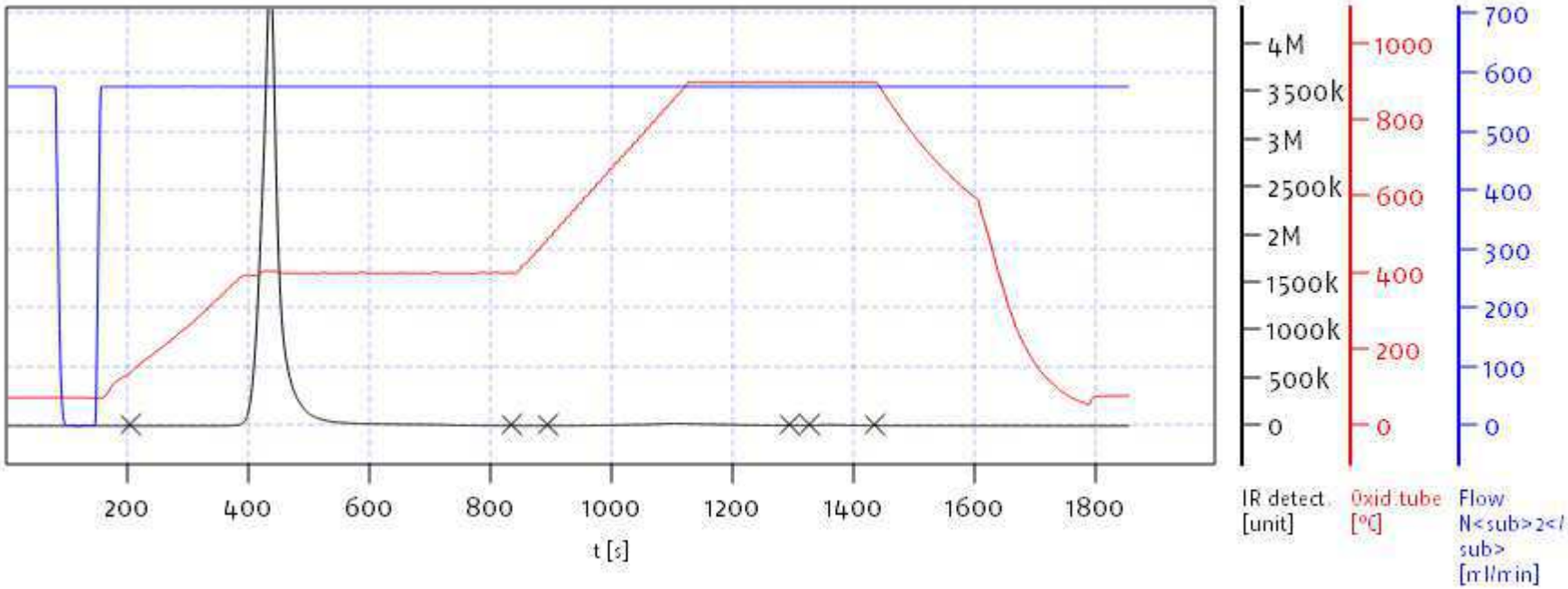
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
123	72	Dfactor	21.40		1.00	CARBON	8/28/2021 6:53 AM	44.550	1.165	45.715	bl	5 694 210	159 244	24 952	0.9911	1.0000



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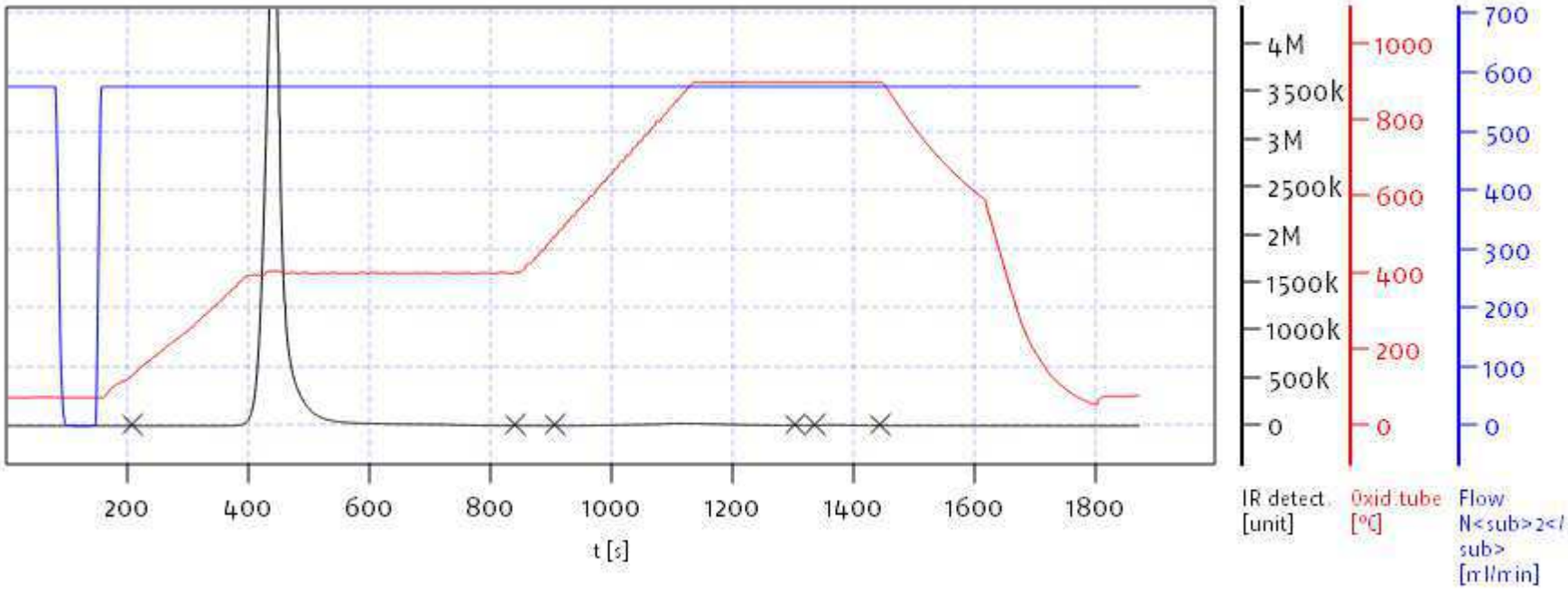
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
124	73	SJH0331-CCVA	24.30		1.00	CARBON	8/28/2021 7:24 AM	45.175	1.141	46.317	bl	6 557 250	175 865	22 725	0.9913	1.0000



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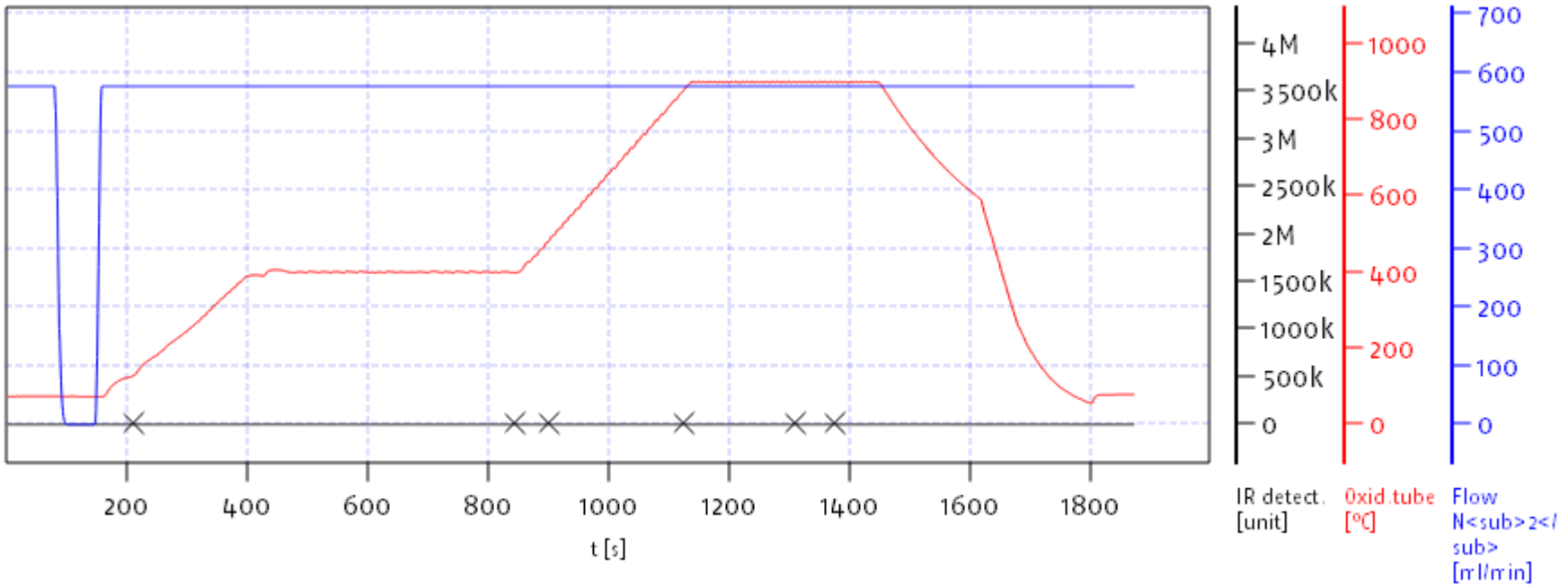
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
125	74	SJH0331-CCBA	622.30		1.00	CARBON	8/28/2021 7:56 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	2 179	58	345	0.9913	1.0000



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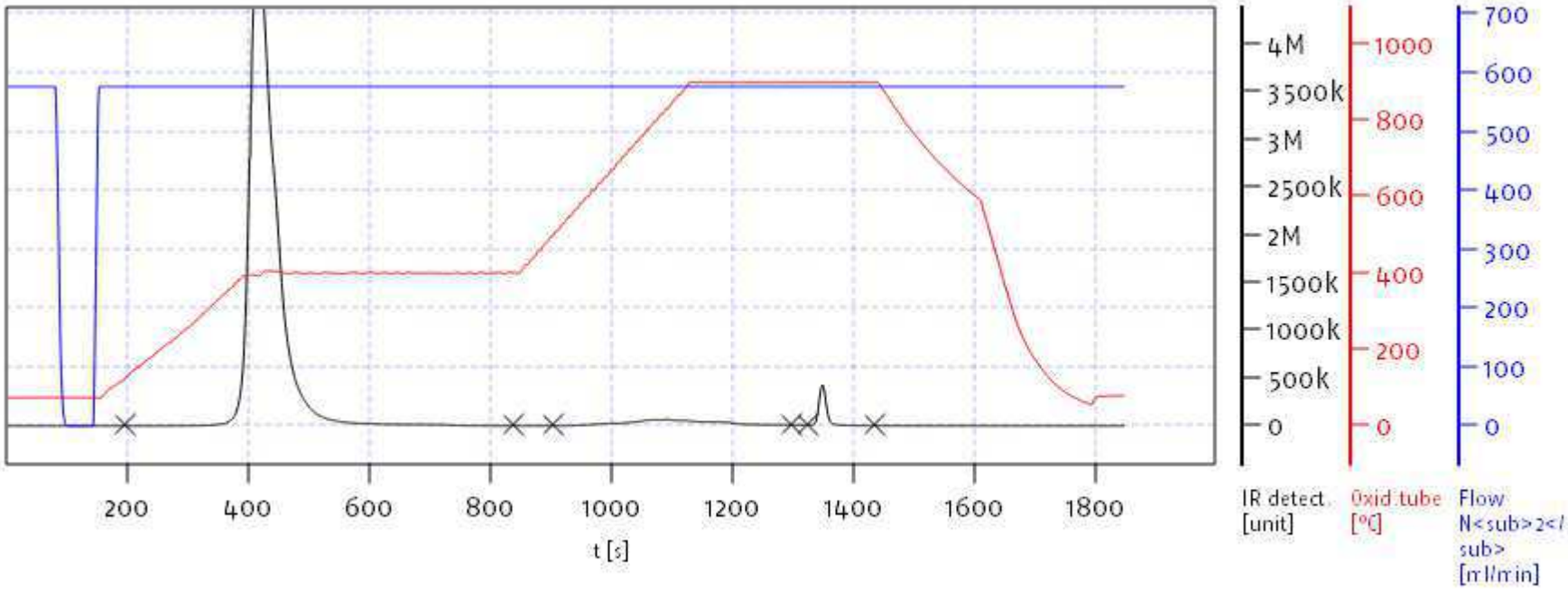
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
126	75	21H0184-16	565.70		1.00	CARBON	8/28/2021 8:27 AM	2.809	0.127	2.936	bl,Cl o	9 272 570	438 152	238 331	0.9913	1.0000



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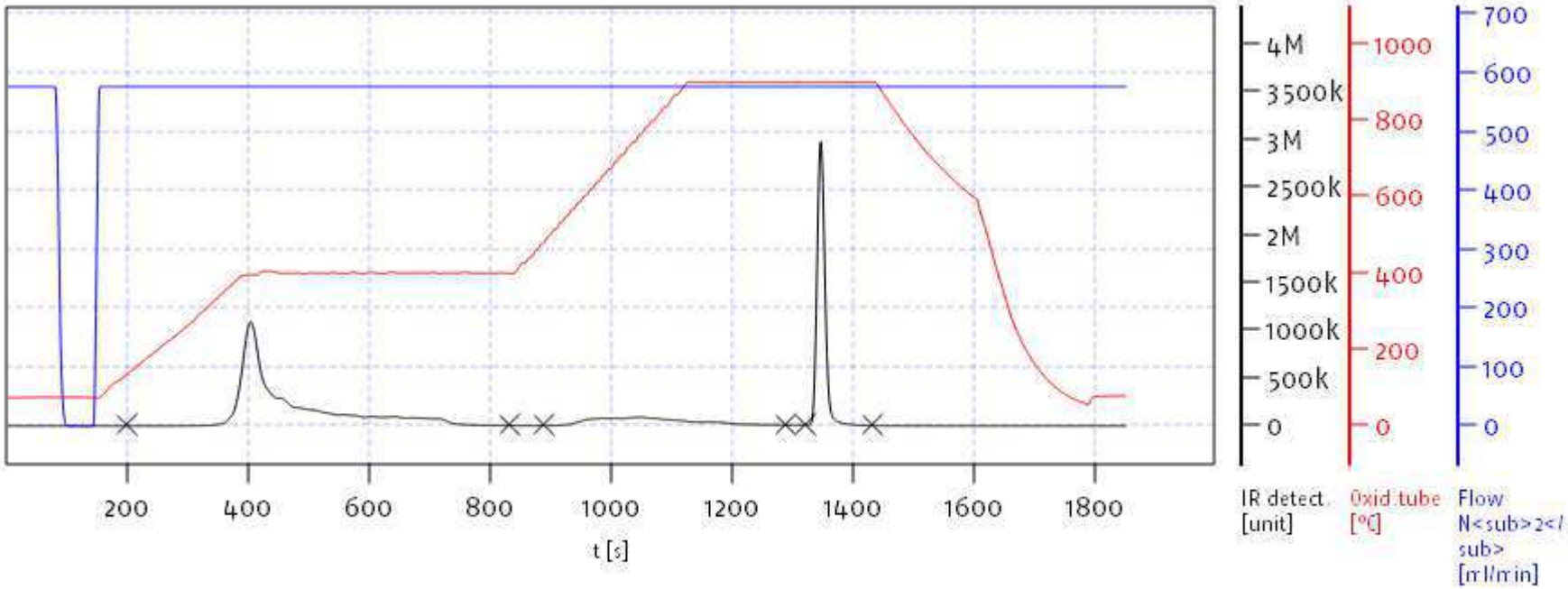
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
127	76	21H0184-17	328.10		1.00	CARBON	8/28/2021 8:59 AM	2.389	0.337	2.725	bl	2 990 010	665 689	1 699 900	0.9913	1.0000



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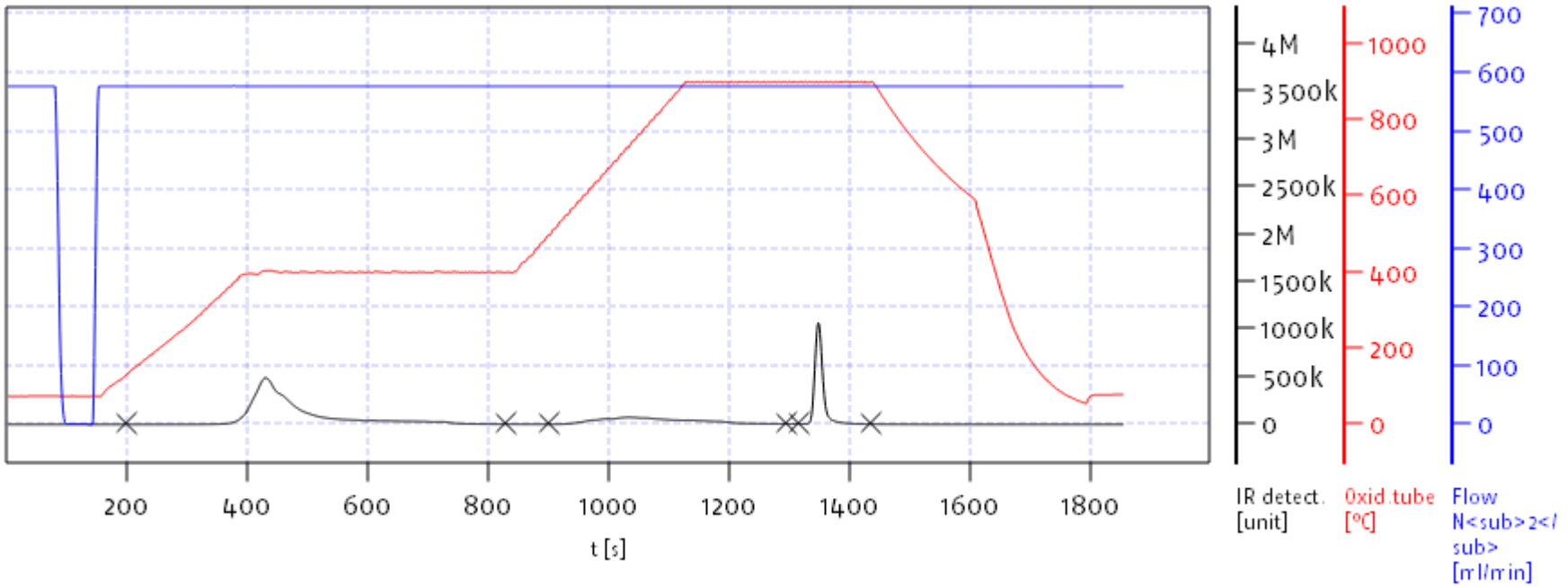
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
128	77	21H0184-18	627.00		1.00	CARBON	8/28/2021 9:30 AM	0.588	0.134	0.722	bl	1 591 990	510 199	627 006	0.9913	1.0000



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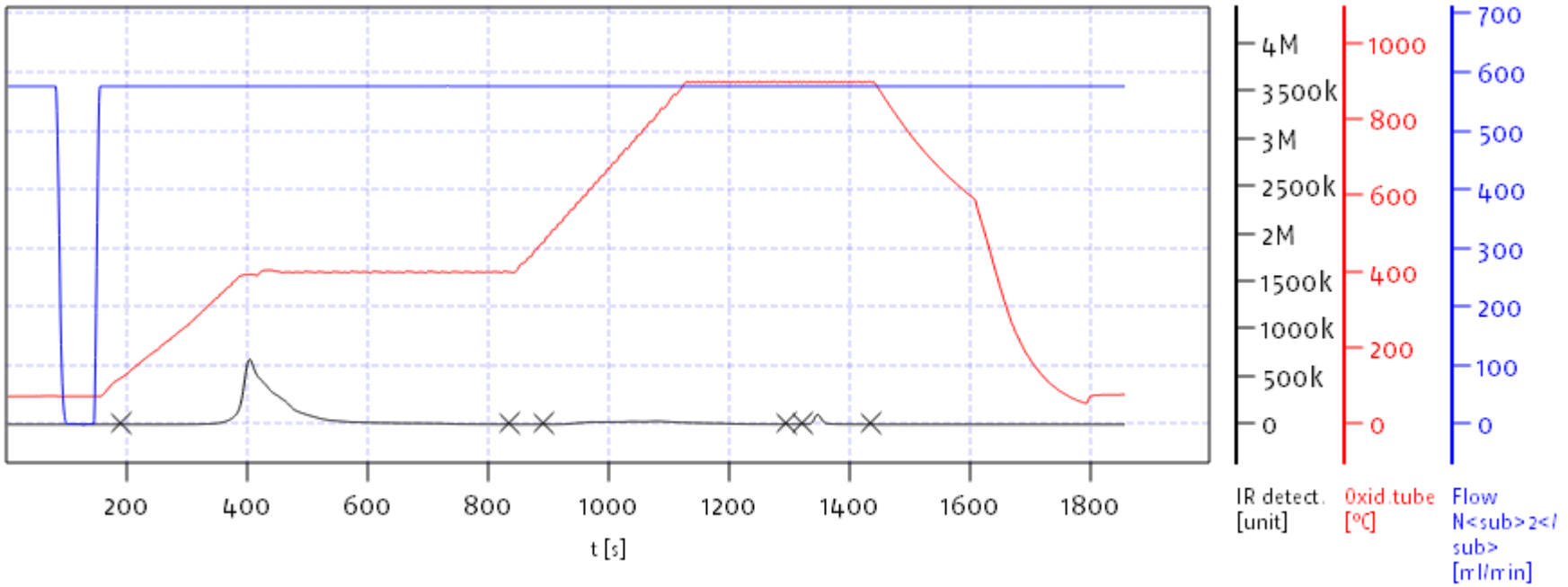
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
129	78	21H0219-01	527.60		1.00	CARBON	8/28/2021 10:02 AM	0.565	0.071	0.636	bl	1 743 570	232 620	60 843	0.9913	1.0000



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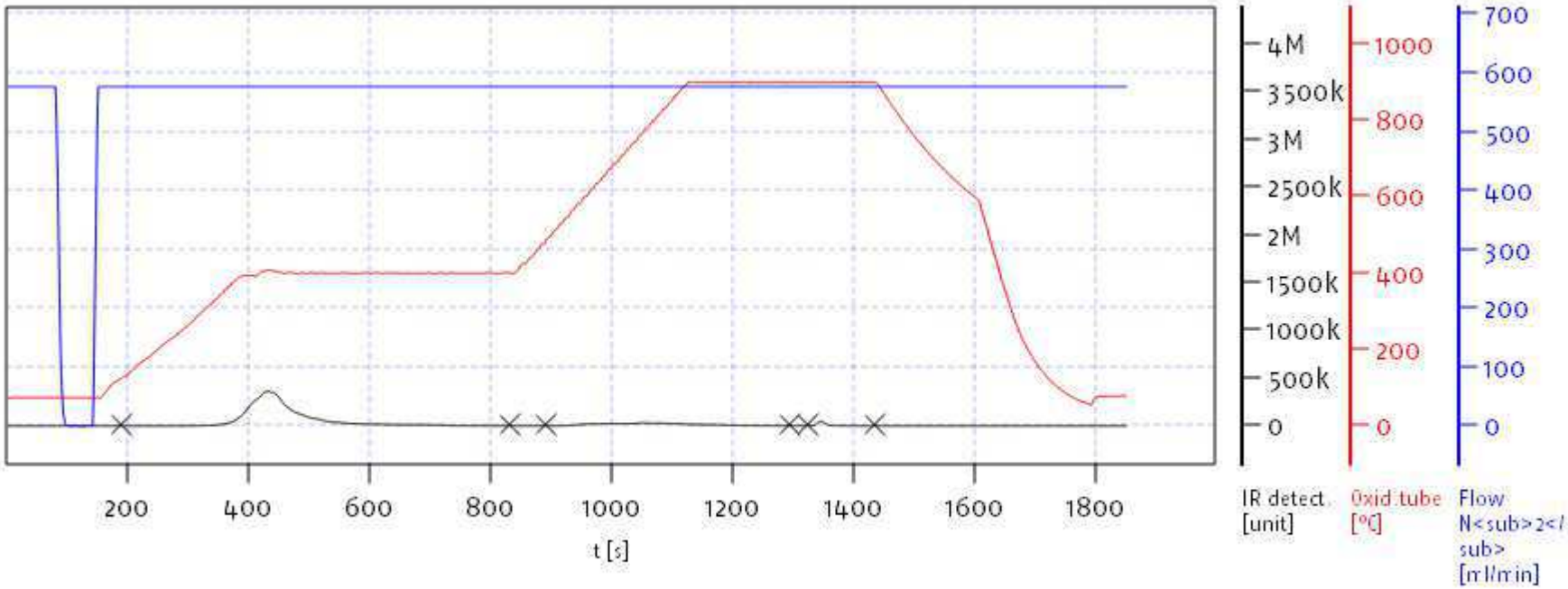
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
130	79	BJH0513-DUP2	532.50		1.00	CARBON	8/28/2021 10:33 AM	0.393	0.062	0.455	bl	1 241 740	208 054	30 430	0.9913	1.0000



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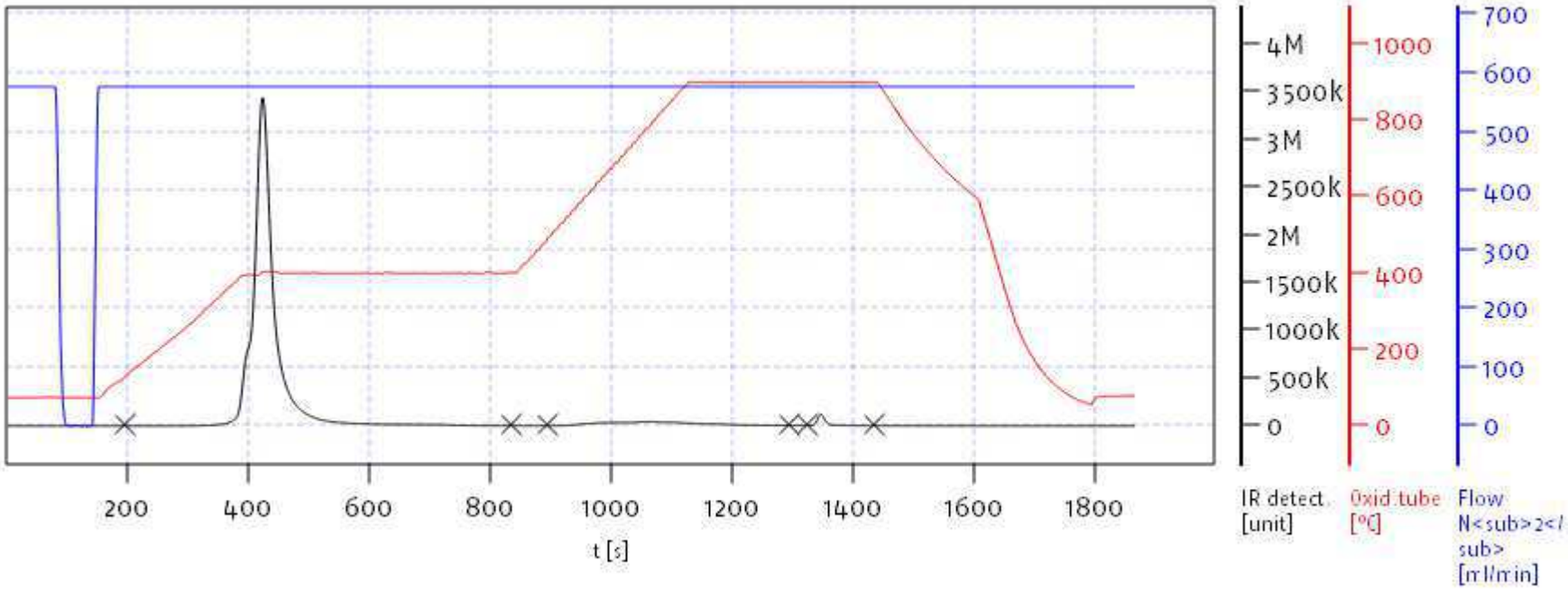
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
131	80	BJH0513-MS2	566.50	0.0108	1.00	CARBON	8/28/2021 11:04 AM	1.473	0.091	1.564	bl	4 929 470	318 082	77 016	0.9913	1.0000



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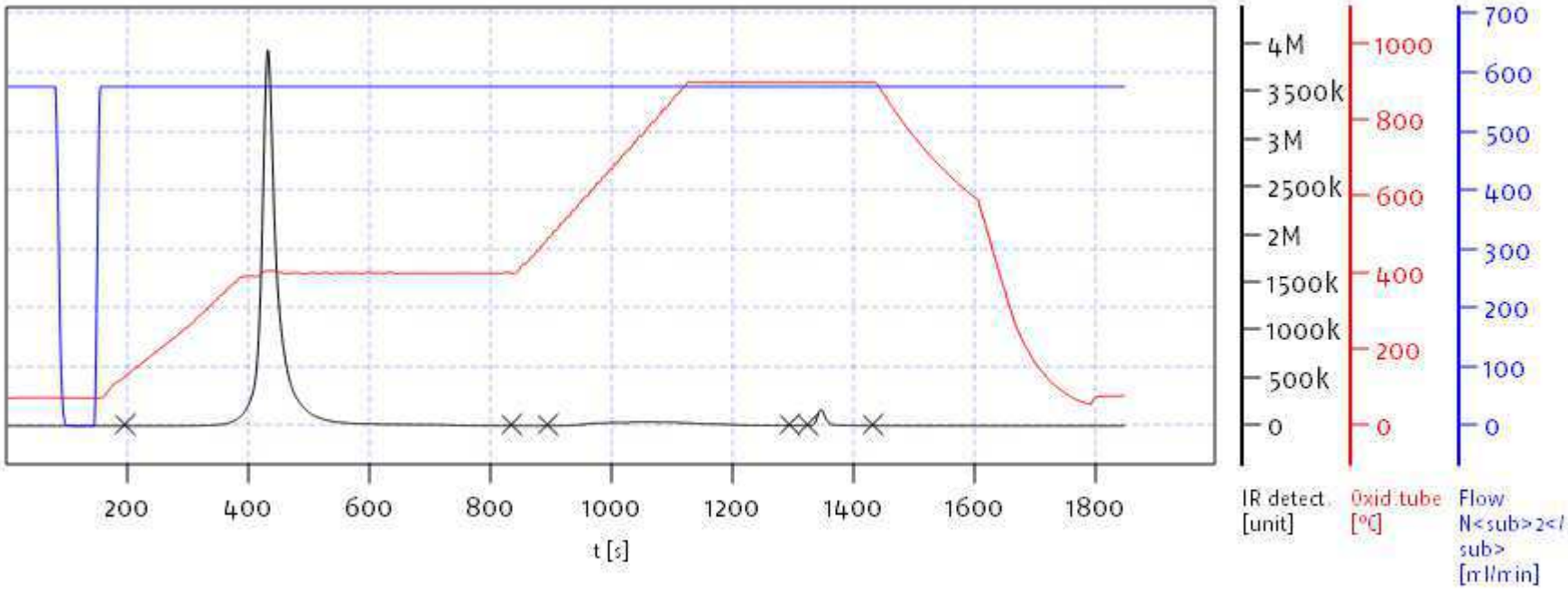
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
132	81	BJH0513-MSD2	598.70	0.0113	1.00	CARBON	8/28/2021 11:36 AM	1.347	0.084	1.431	bl	4 728 330	308 742	109 916	0.9913	1.0000



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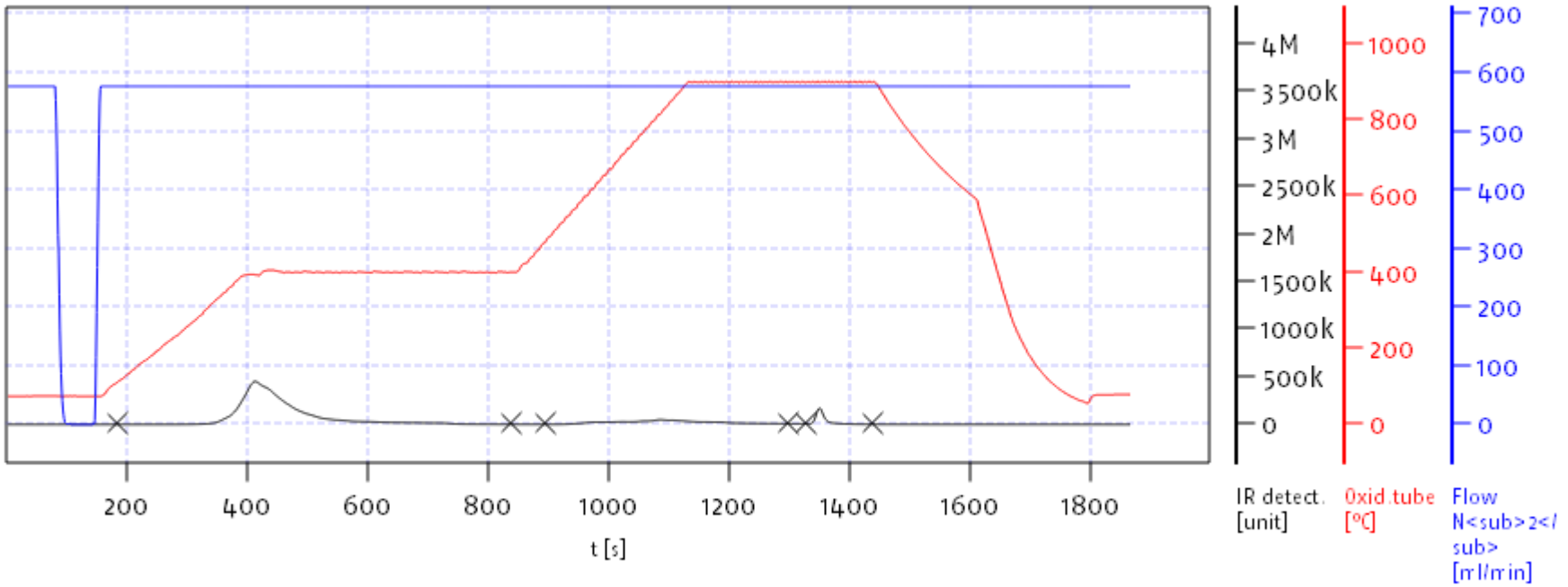
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
133	82	21H0223-01	105.40		1.00	CARBON	8/28/2021 12:07 PM	2.778	0.500	3.278	bl	1 657 300	323 449	113 953	0.9913	1.0000



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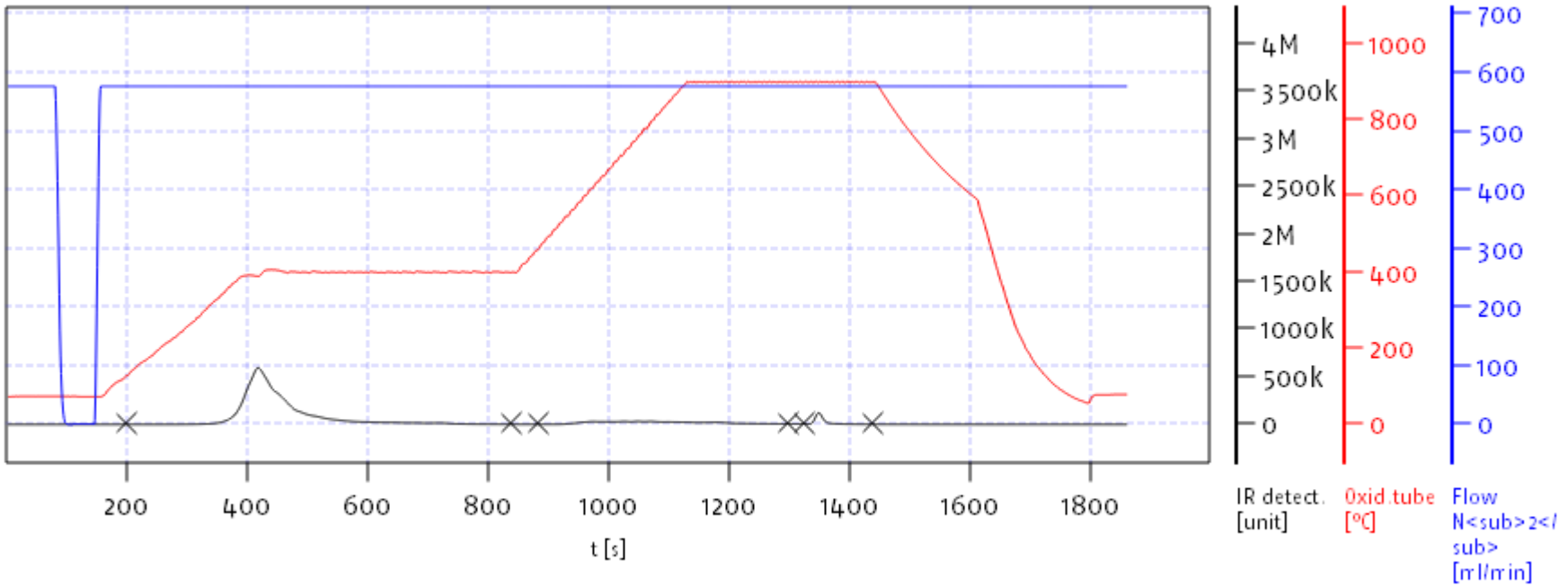
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
134	83	21H0223-02	114.70		1.00	CARBON	8/28/2021 12:39 PM	2.679	0.397	3.077	bl	1 777 140	281 623	81 103	0.9913	1.0000



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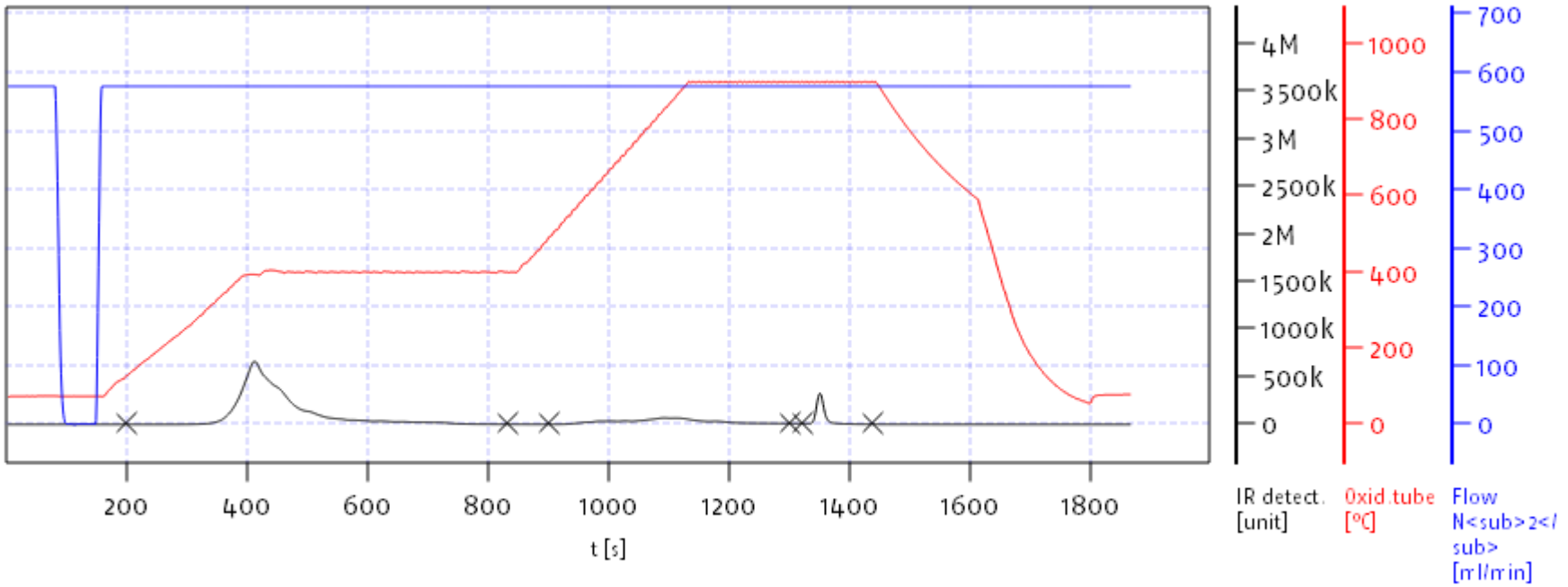
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
135	84	21H0223-03	121.20		1.00	CARBON	8/28/2021 1:10 PM	3.307	0.600	3.908	bl	2 220 990	442 362	195 018	0.9913	1.0000



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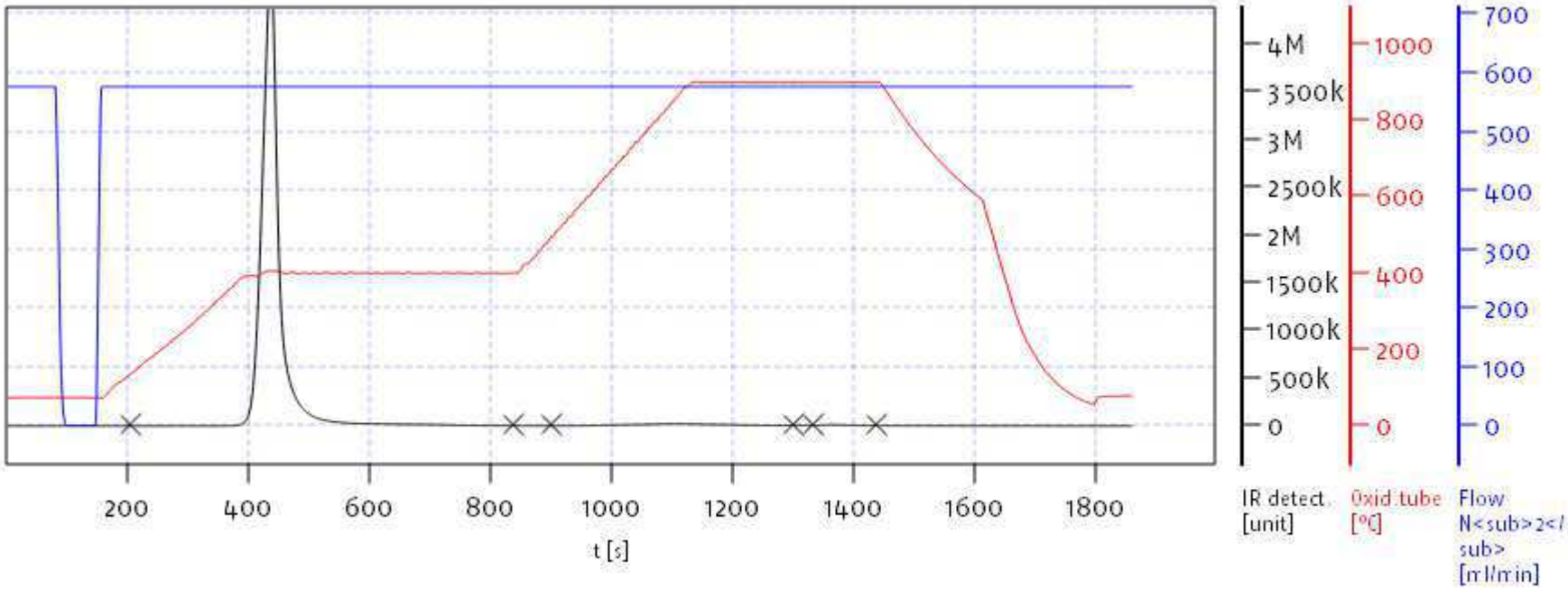
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
136	85	SJH0331-CCVB	21.80		1.00	CARBON	8/28/2021 1:42 PM	44.633	1.082	45.716	bl	5 809 870	151 374	24 927	0.9913	1.0000



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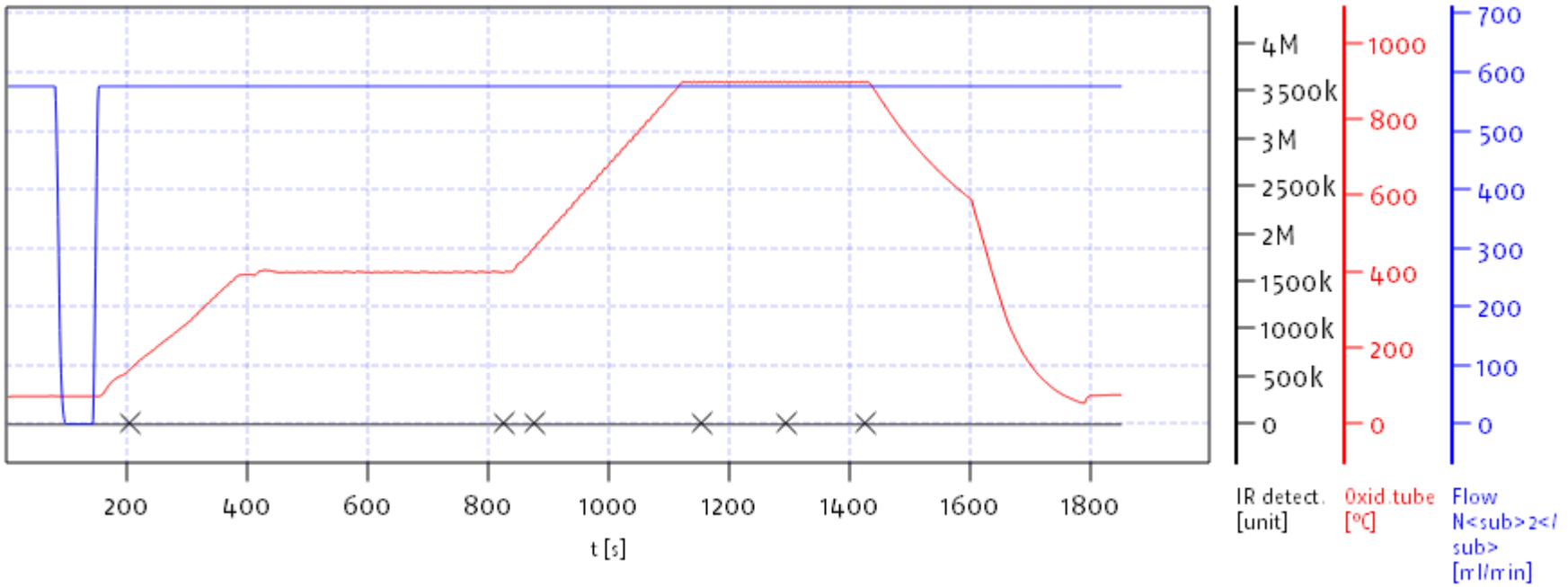
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
137	86	SJH0331-CCBB	553.80		1.00	CARBON	8/28/2021 2:13 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	3 219	275	254	0.9913	1.0000



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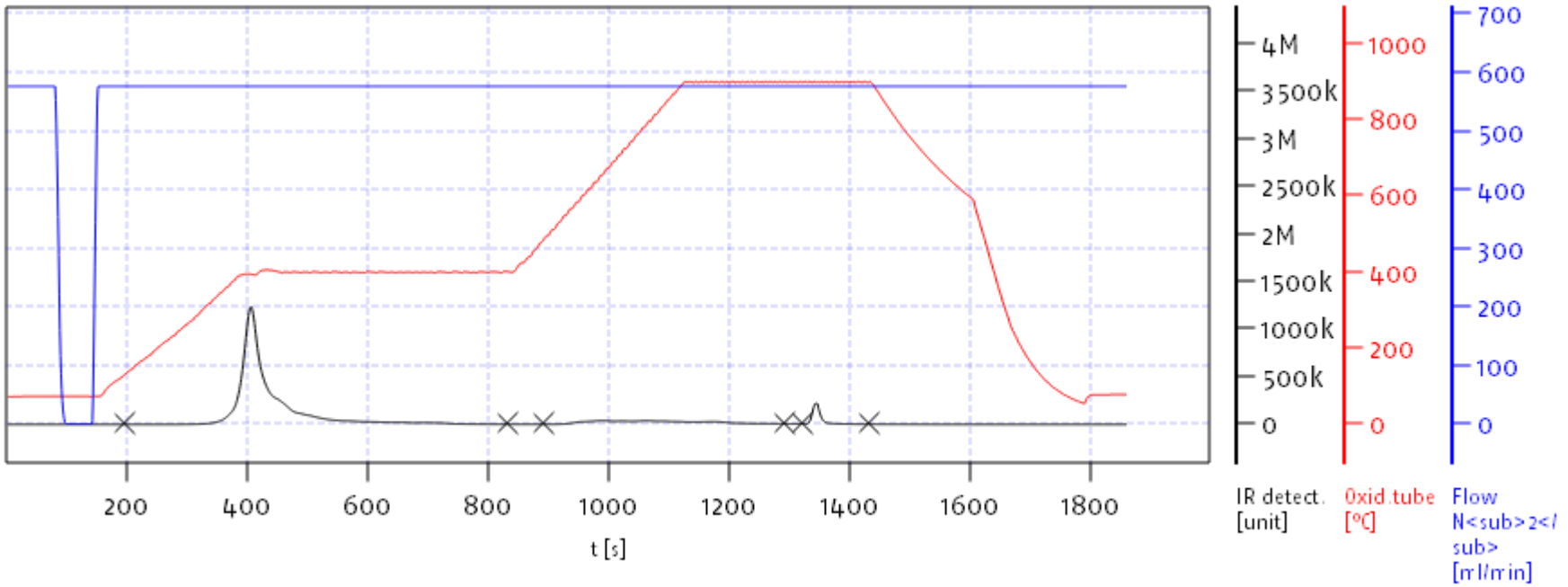
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
138	87	21H0223-04	138.40		1.00	CARBON	8/28/2021 2:45 PM	2.972	0.409	3.381	bl	2 338 910	346 798	139 874	0.9913	1.0000



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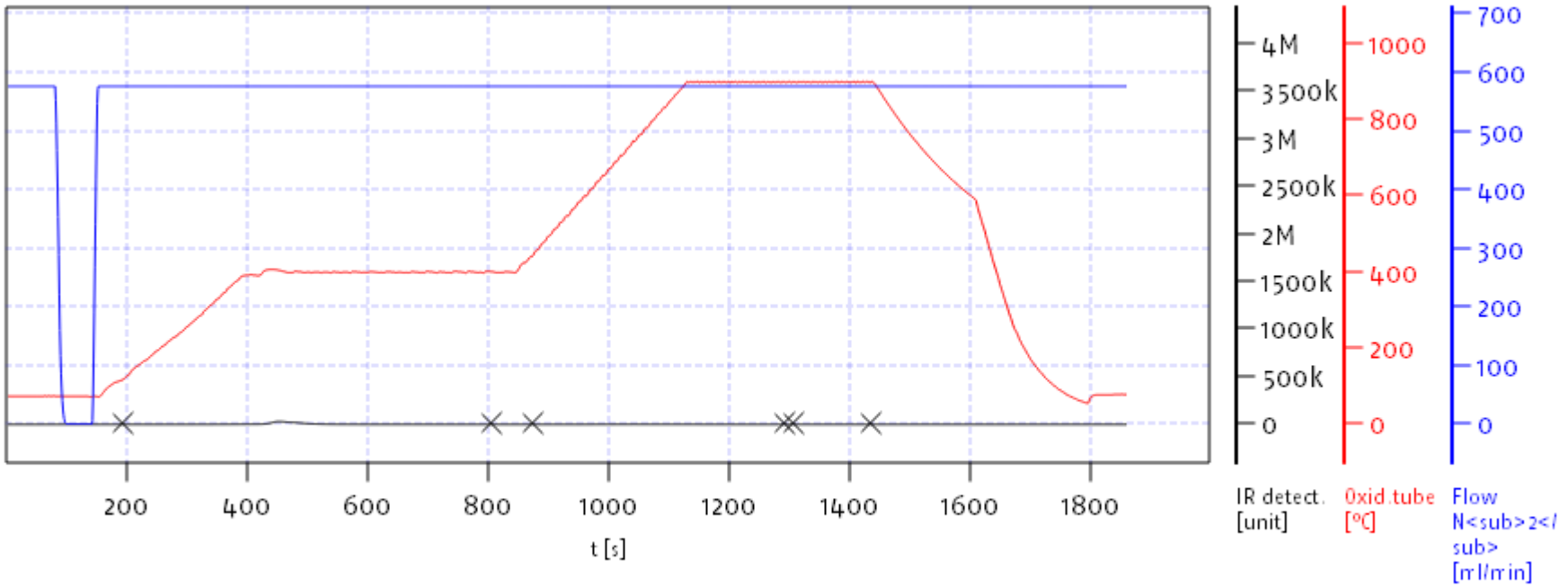
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
139	88	BJH0434-MRL1	556.70		1.00	CARBON	8/28/2021 3:16 PM	0.017	0.000	0.017	bl,C3u,C2u	68 246	7 250	503	0.9913	1.0000



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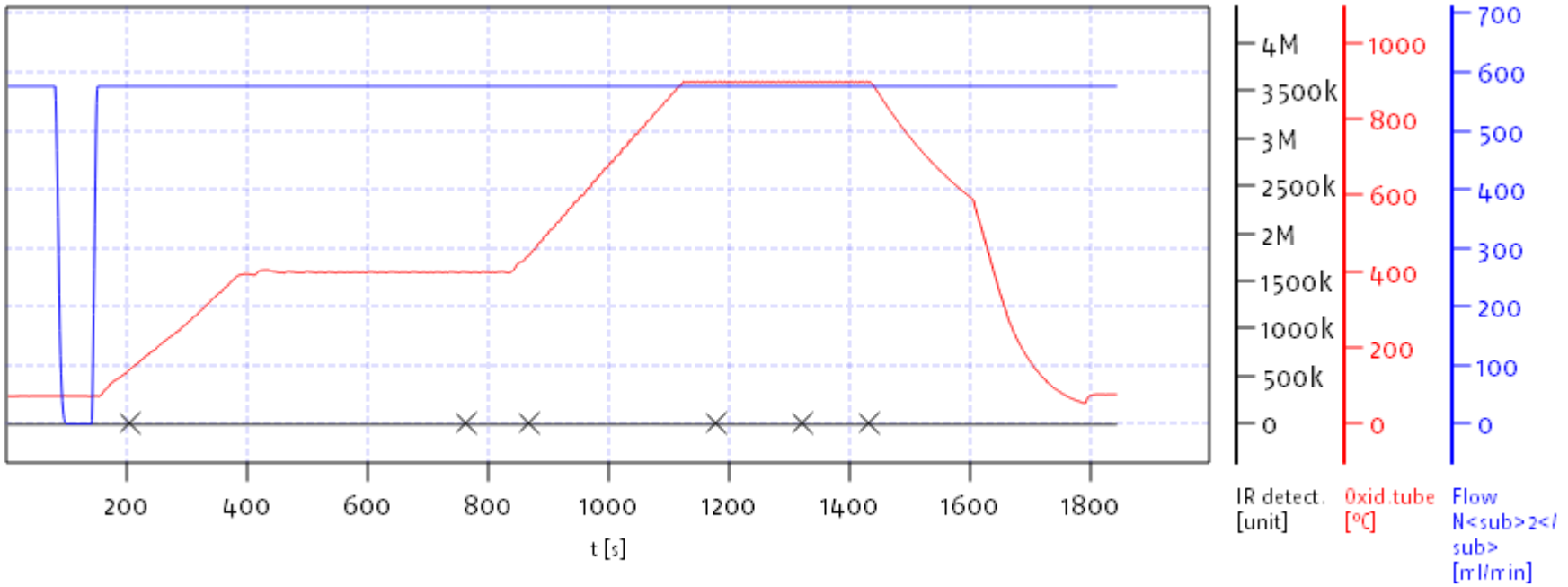
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
140	89	BJH0434-BLK1	518.90		1.00	CARBON	8/28/2021 3:47 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	1 696	2 157	367	0.9913	1.0000



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Date: Tue Aug 31 14:32:59 2021

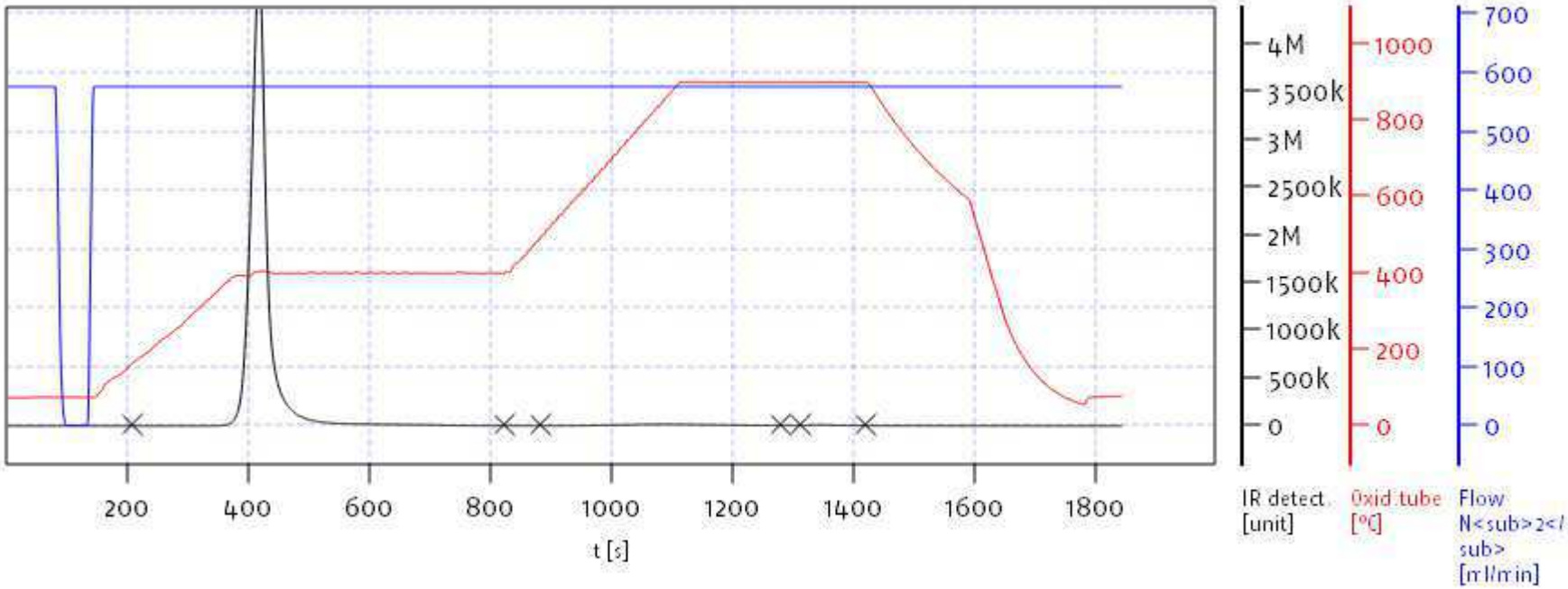
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
141	1	BJH0434-BS1	20.20		1.00	CARBON	8/28/2021 4:19 PM	46.270	0.931	47.201	bl	5 582 080	123 050	23 665	0.9913	1.0000



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Analyst: BF

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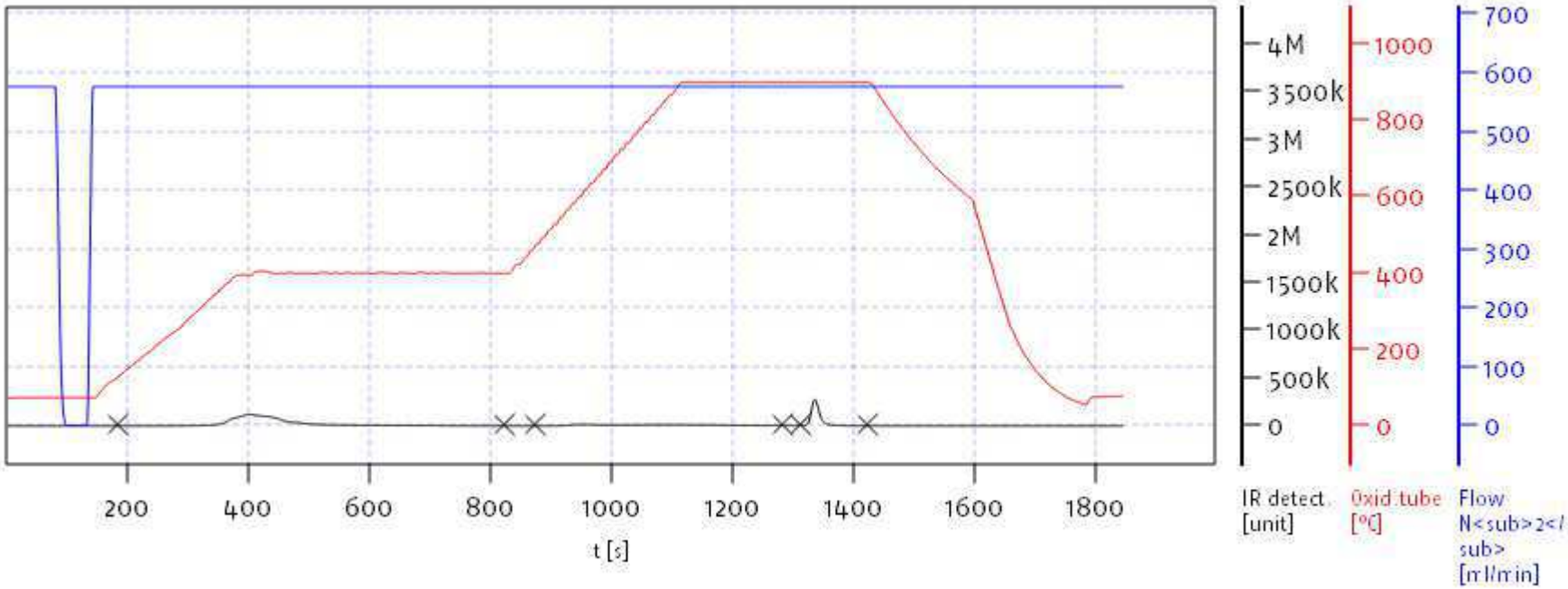
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
142	2	BJH0434-SRM1	40.00		1.00	CARBON	8/28/2021 4:50 PM	2.600	0.445	3.046	bl	473 382	117 120	169 870	0.9913	1.0000



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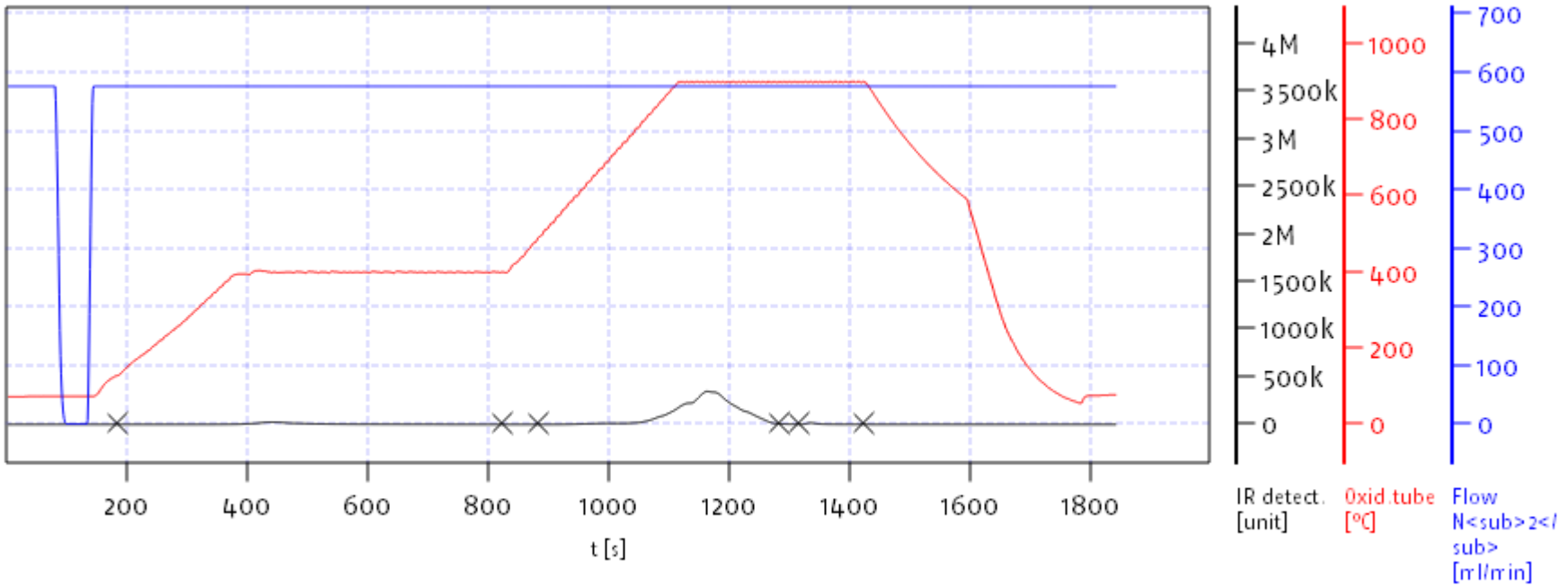
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
143	3	21G0313-15	362.60		1.00	CARBON	8/28/2021 5:21 PM	0.036	0.662	0.698	bl	87 395	1 432 640	14 807	0.9913	1.0000



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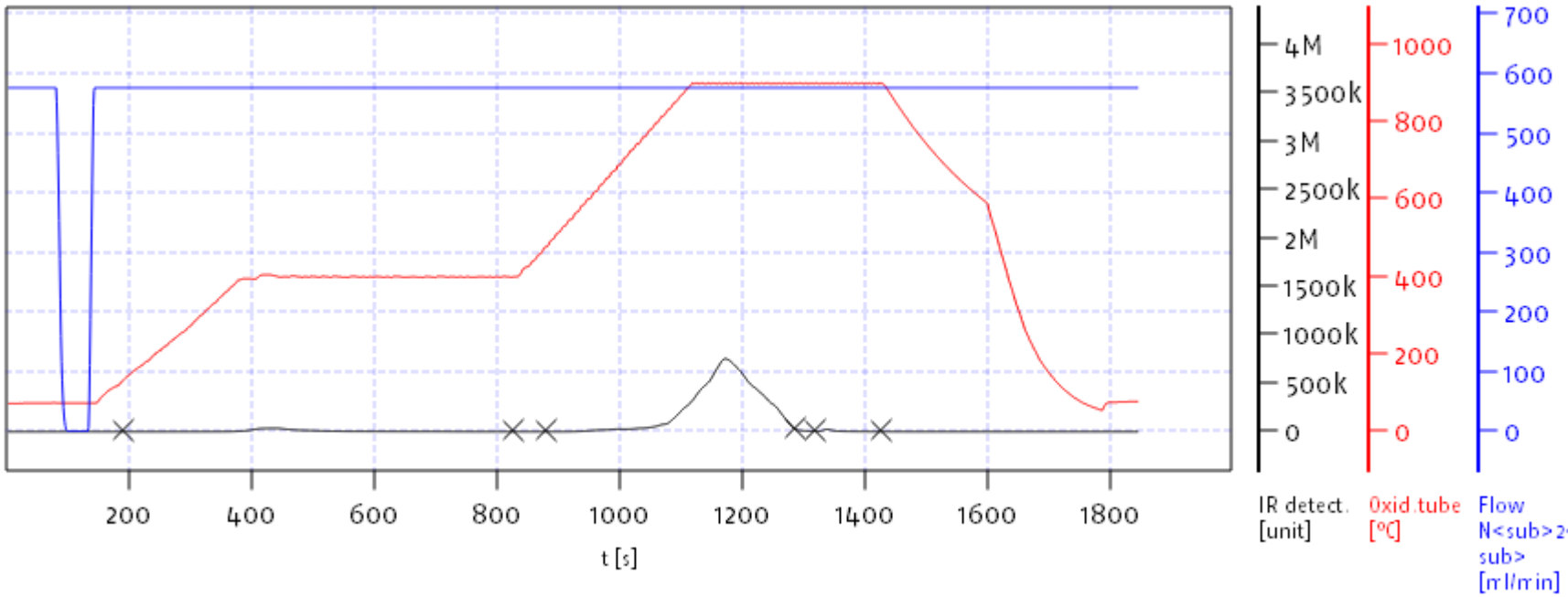
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
144	4	BJH0434-DUP2	376.10		1.00	CARBON	8/28/2021 5:52 PM	0.059	1.468	1.527	bl	133 193	3 280 160	22 916	0.9913	1.0000



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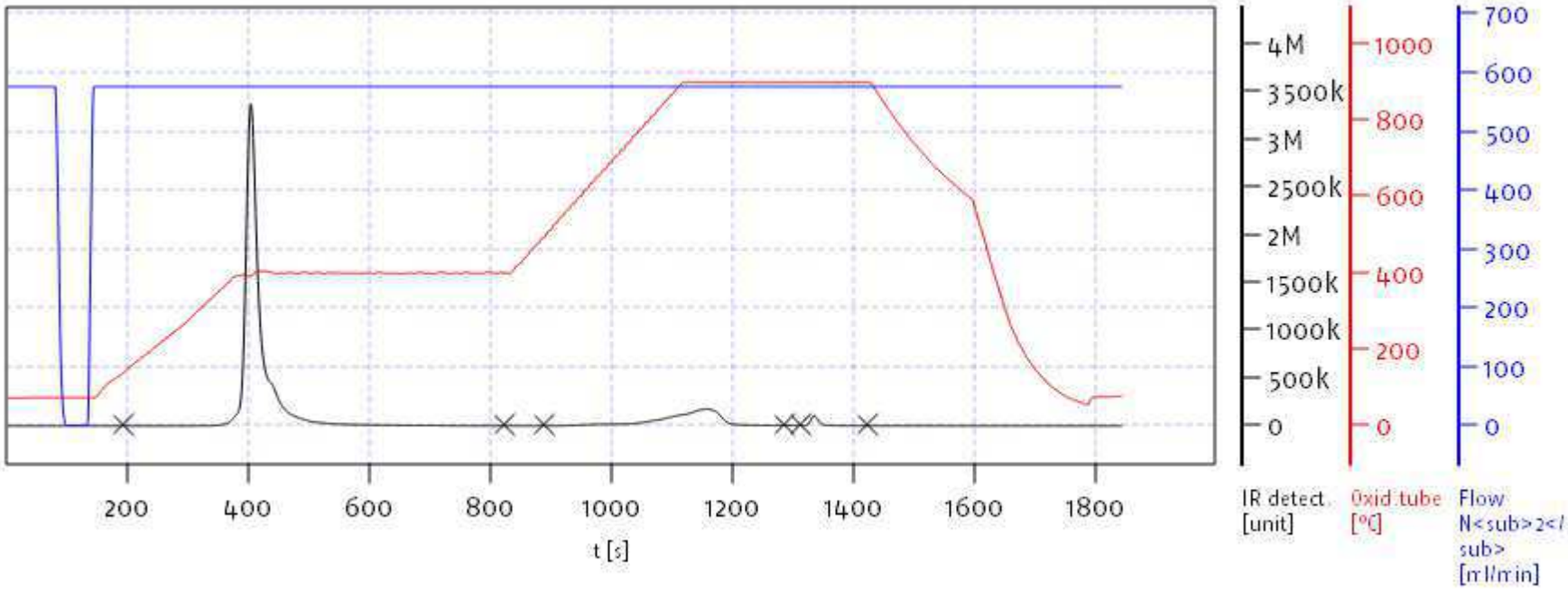
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
145	5	BJH0434-MS2	313.00	0.0113	1.00	CARBON	8/28/2021 6:23 PM	1.881	0.357	2.239	bl	3 473 330	674 151	66 394	0.9913	1.0000



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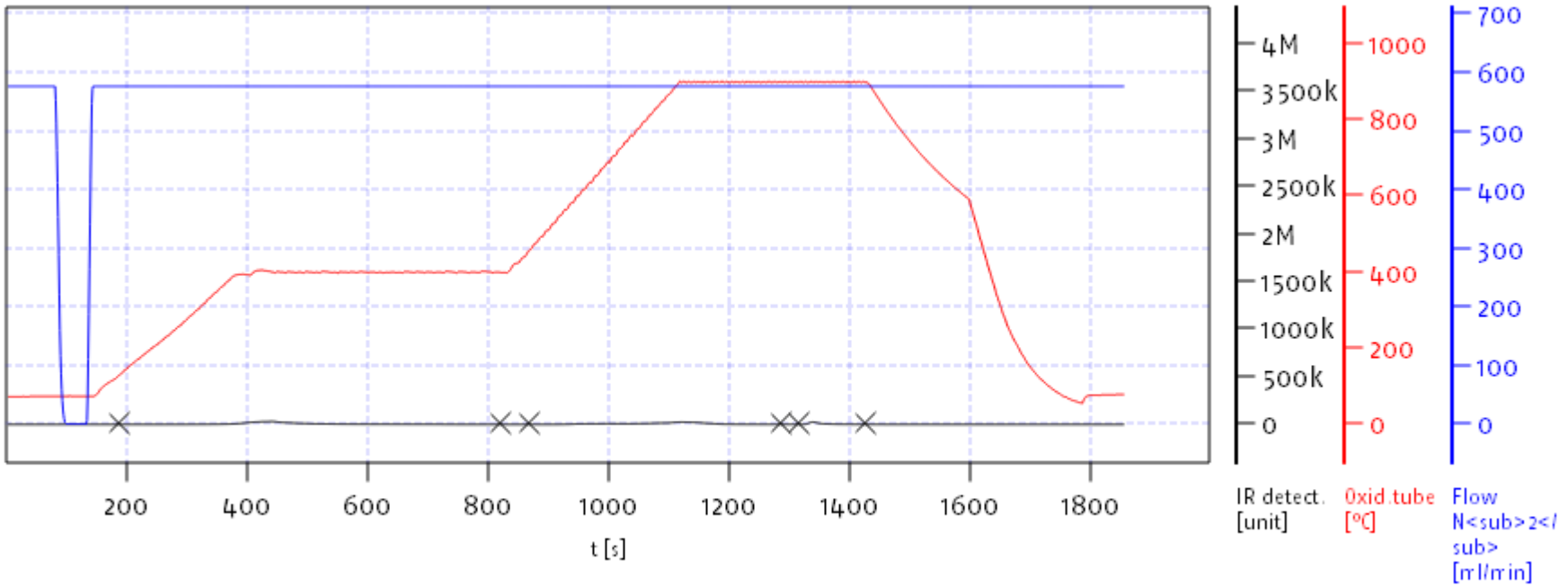
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
146	6	21G0313-16	500.80		1.00	CARBON	8/28/2021 6:55 PM	0.041	0.035	0.076	bl	122 396	114 752	23 407	0.9913	1.0000



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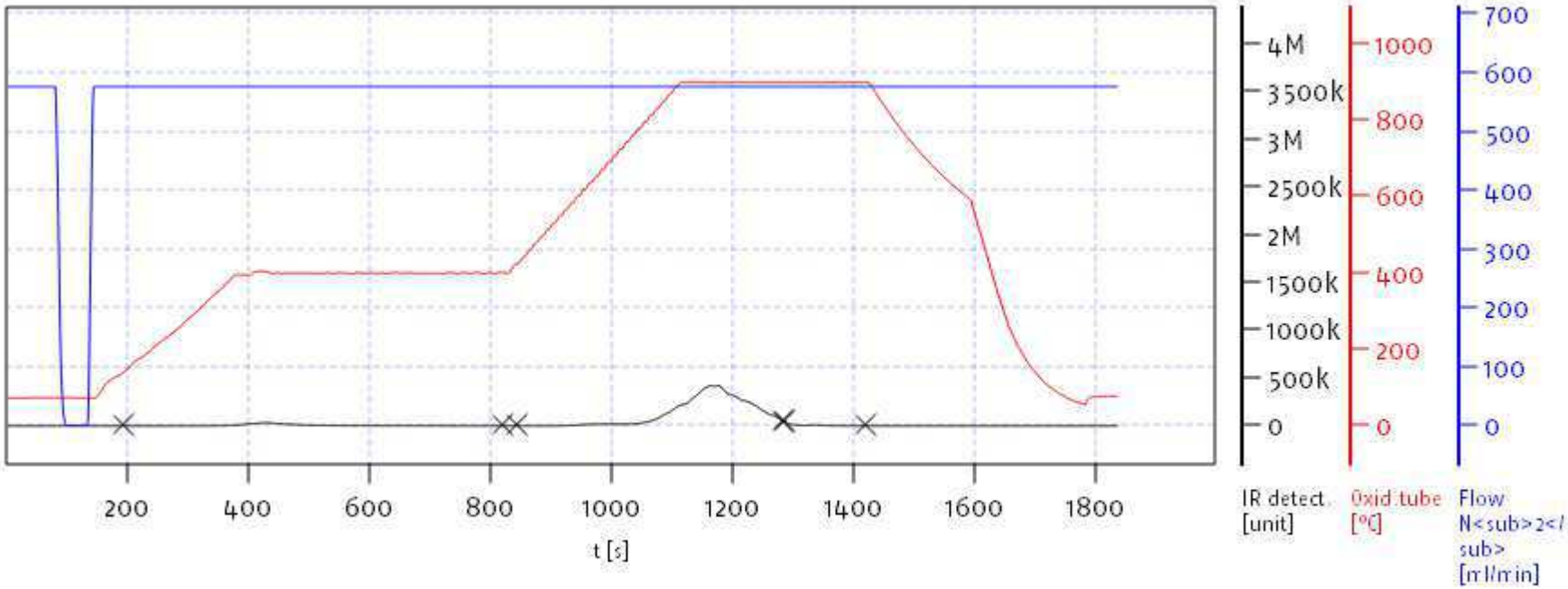
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
147	7	21G0310-03RE1	217.60		1.00	CARBON	8/28/2021 7:26 PM	0.083	1.270	1.353	bl	119 849	2 040 220	29 068	0.9913	1.0000



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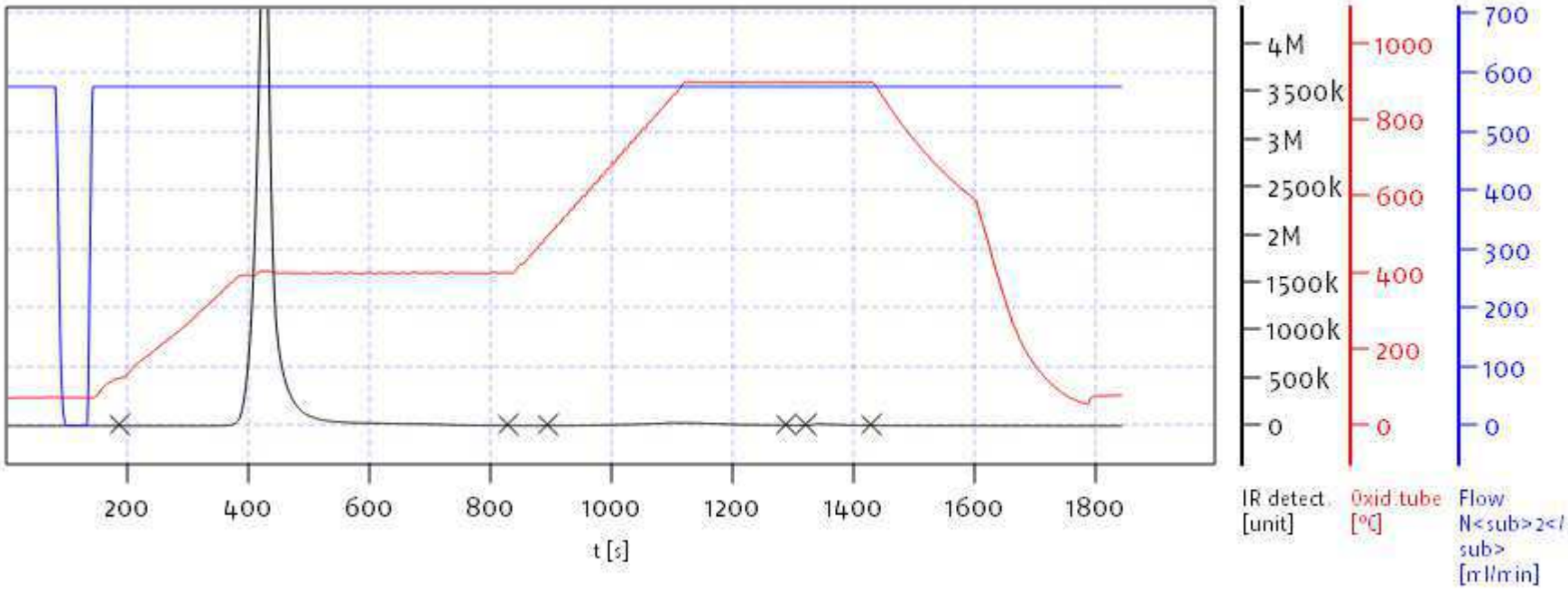
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
148	8	SJH0331-CCVC	23.90		1.00	CARBON	8/28/2021 7:57 PM	44.711	1.455	46.166	bl	6 364 610	217 611	40 995	0.9913	1.0000



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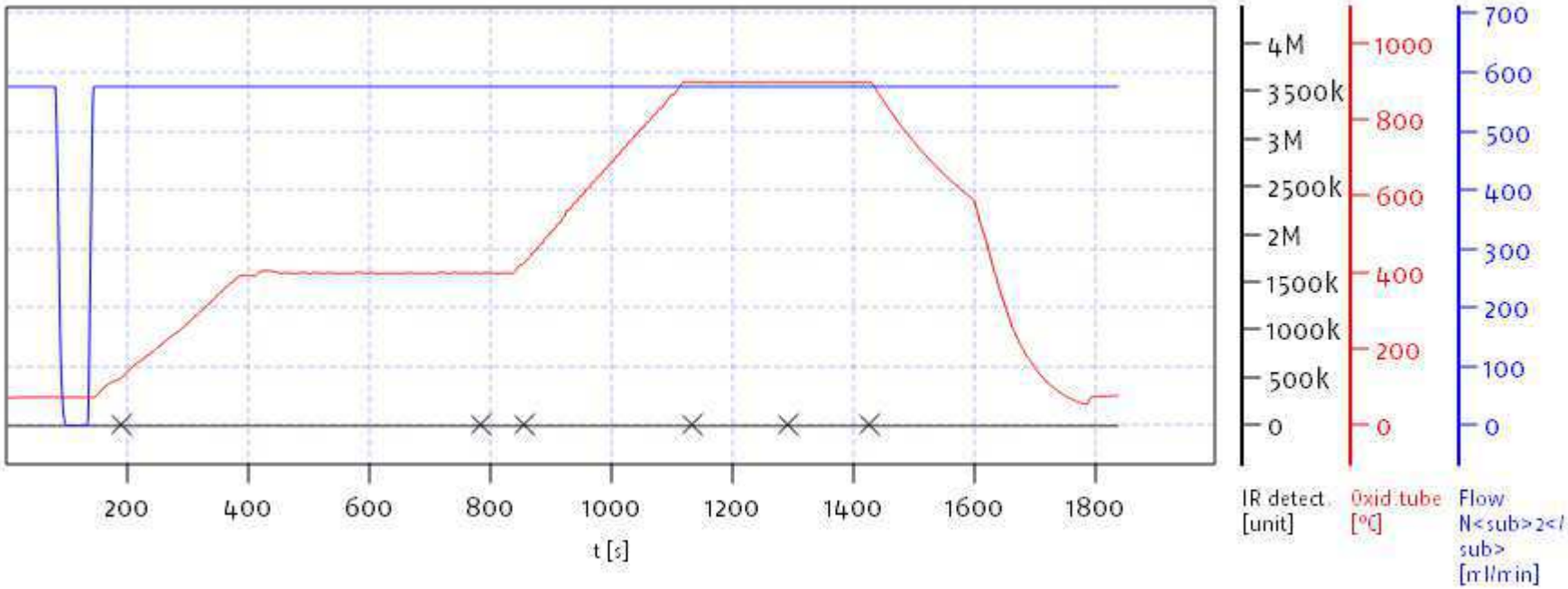
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
149	9	SJH0331-CCBC	588.20		1.00	CARBON	8/28/2021 8:28 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	2 316	13	79	0.9913	1.0000



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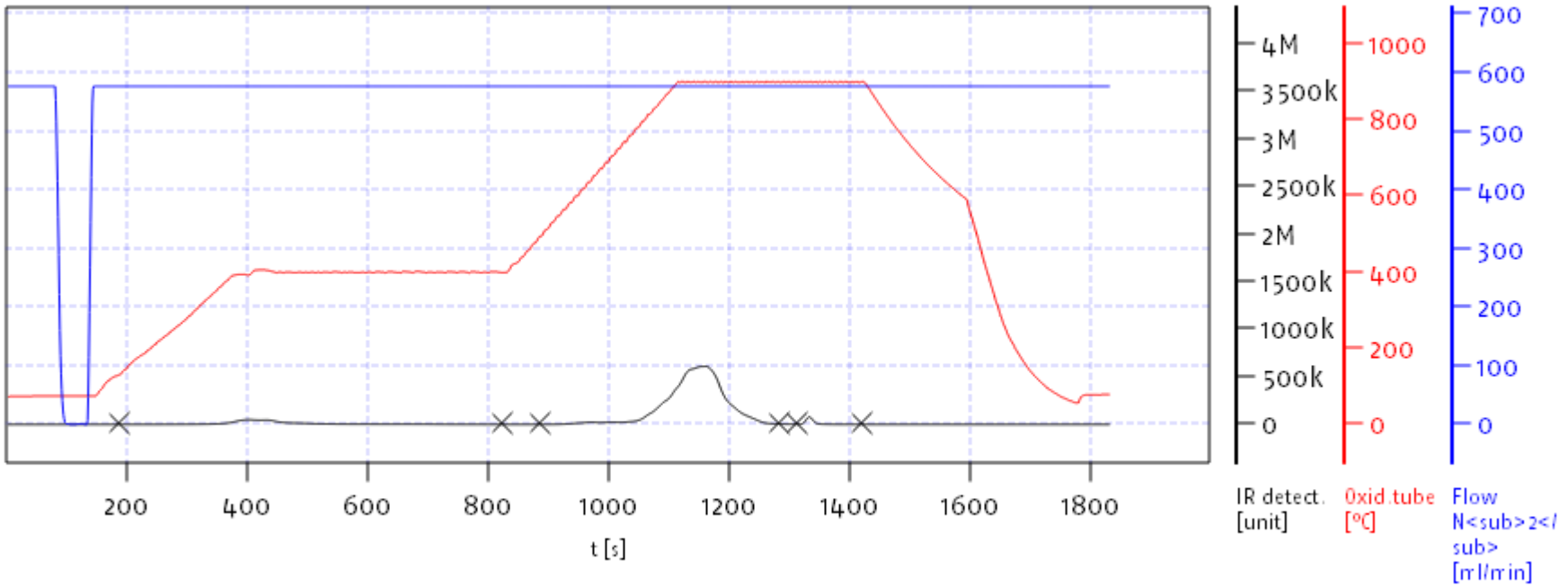
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
150	10	21G0310-06RE1	131.50		1.00	CARBON	8/28/2021 8:59 PM	0.285	3.067	3.353	bl	201 867	2 399 770	45 380	0.9913	1.0000



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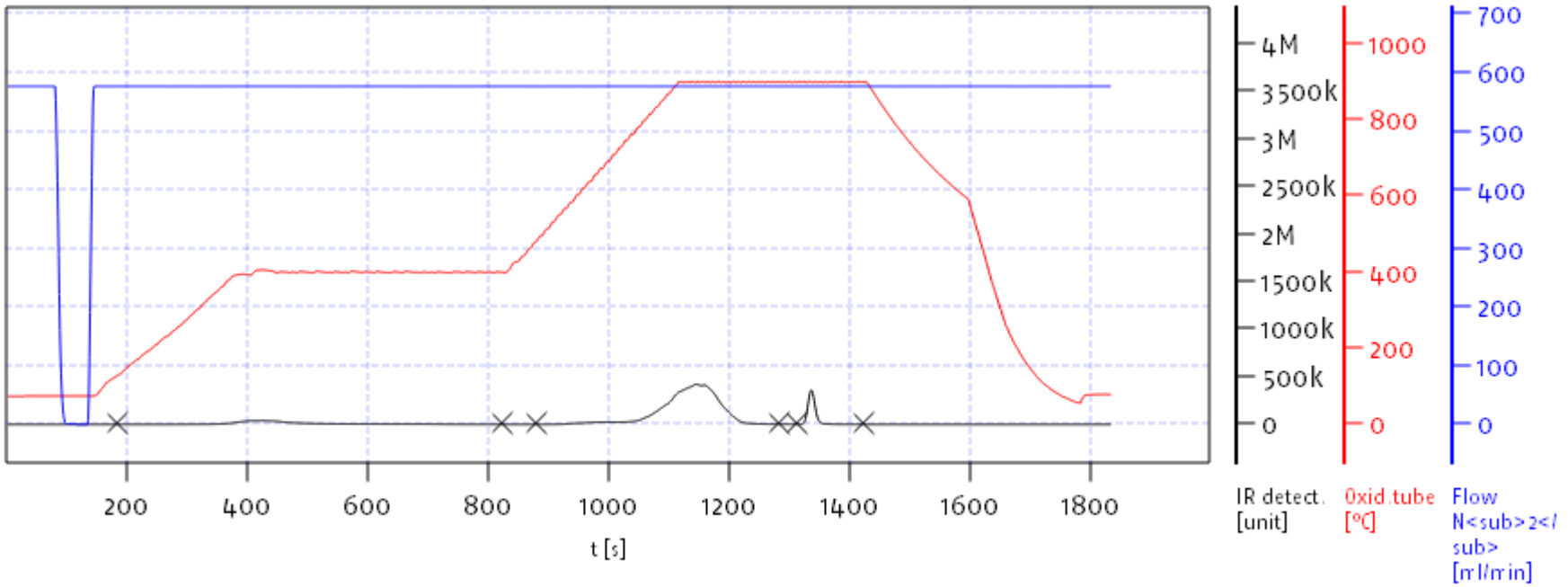
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
151	11	21G0310-07RE1	184.30		1.00	CARBON	8/28/2021 9:30 PM	0.325	1.485	1.810	bl	188 140	1 632 090	190 979	0.9913	1.0000



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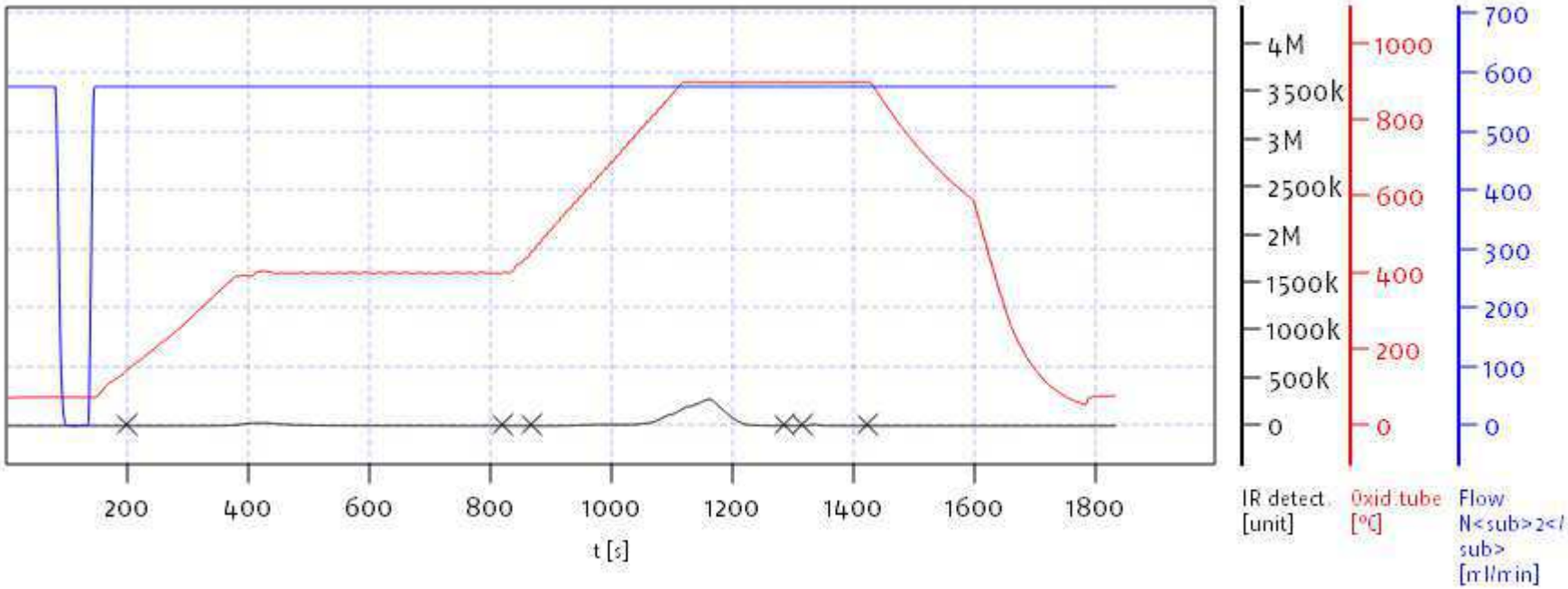
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
152	12	21G0312-14RE1	105.00		1.00	CARBON	8/28/2021 10:01 PM	0.163	1.524	1.687	bl	113 787	959 154	10 137	0.9913	1.0000



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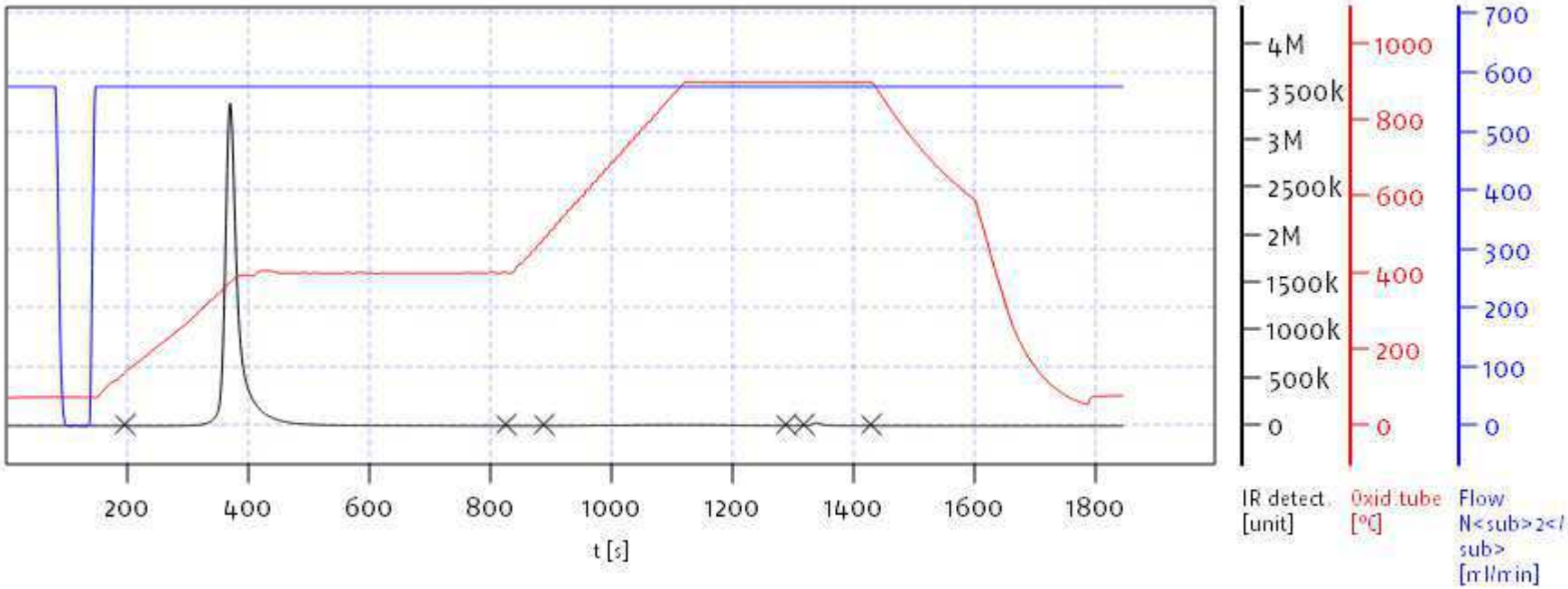
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
153	13	21H0061-01RE1	100.70		1.00	CARBON	8/28/2021 10:32 PM	5.373	0.116	5.489	bl	3 228 540	80 938	26 398	0.9913	1.0000



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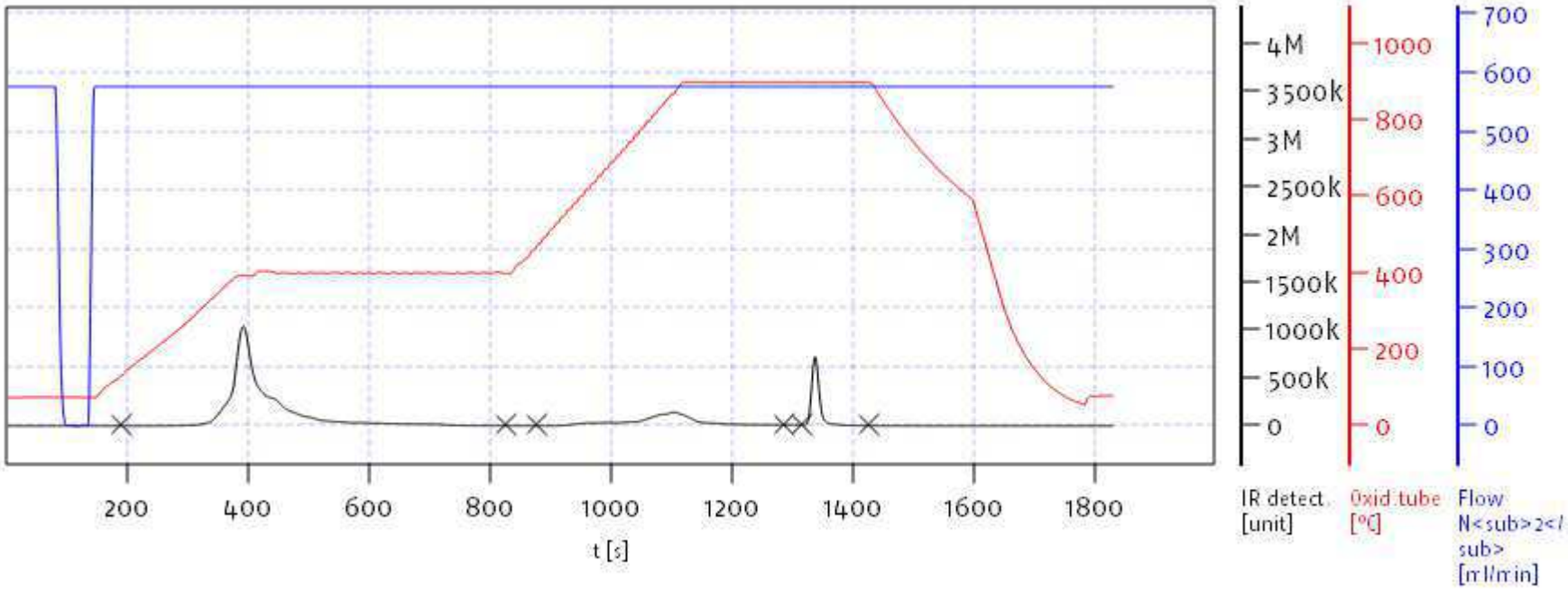
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
154	14	21H0061-03RE1	104.30		1.00	CARBON	8/28/2021 11:03 PM	4.442	0.954	5.396	bl	2 376 800	601 105	410 254	0.9913	1.0000



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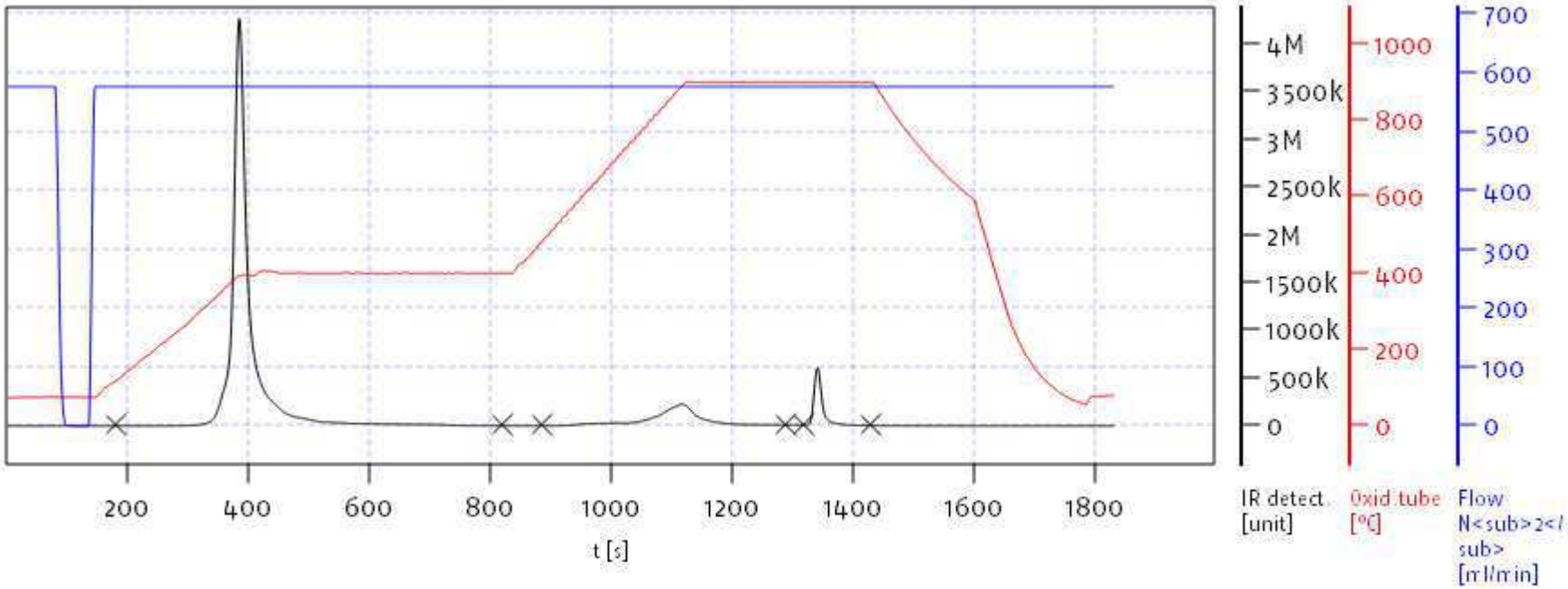
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
155	15	21H0061-04RE1	112.90		1.00	CARBON	8/28/2021 11:34 PM	7.662	1.113	8.775	bl	4 816 740	755 540	370 349	0.9913	1.0000



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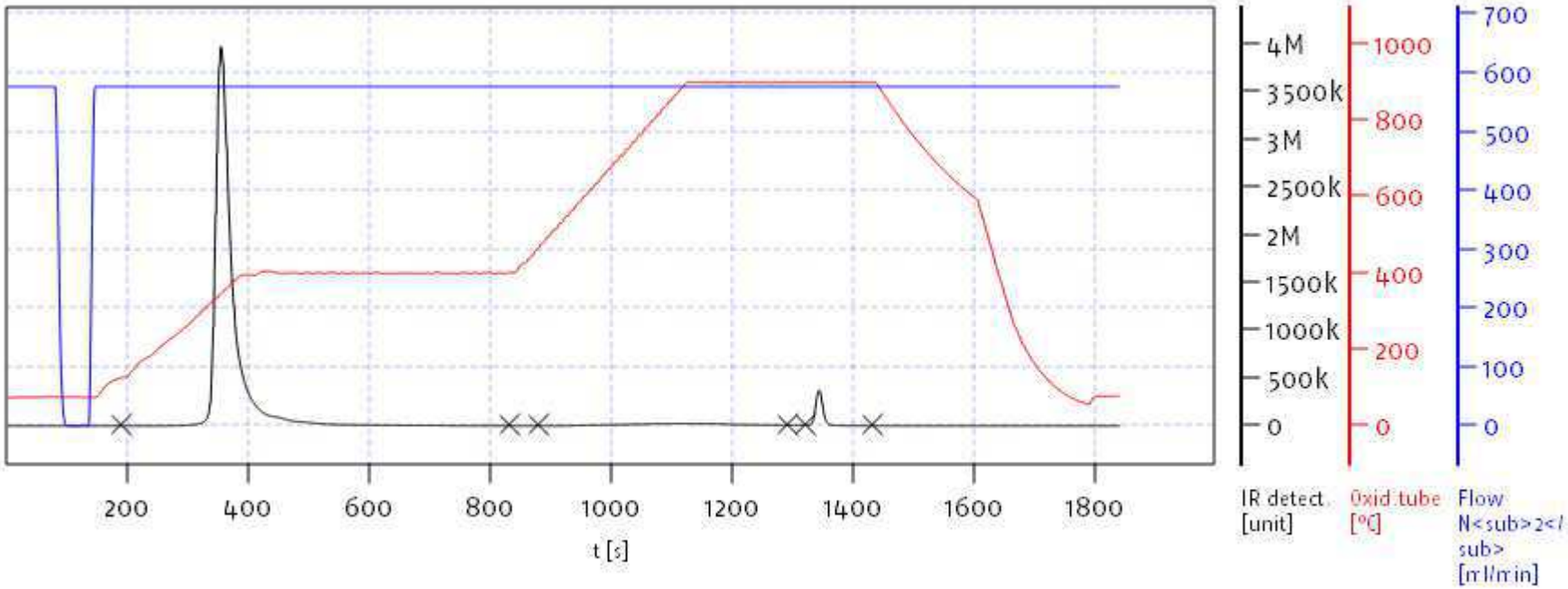
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
156	16	21H0061-05RE1	128.60		1.00	CARBON	8/29/2021 12:06 AM	6.375	0.247	6.622	bl	4 719 210	199 614	199 518	0.9913	1.0000



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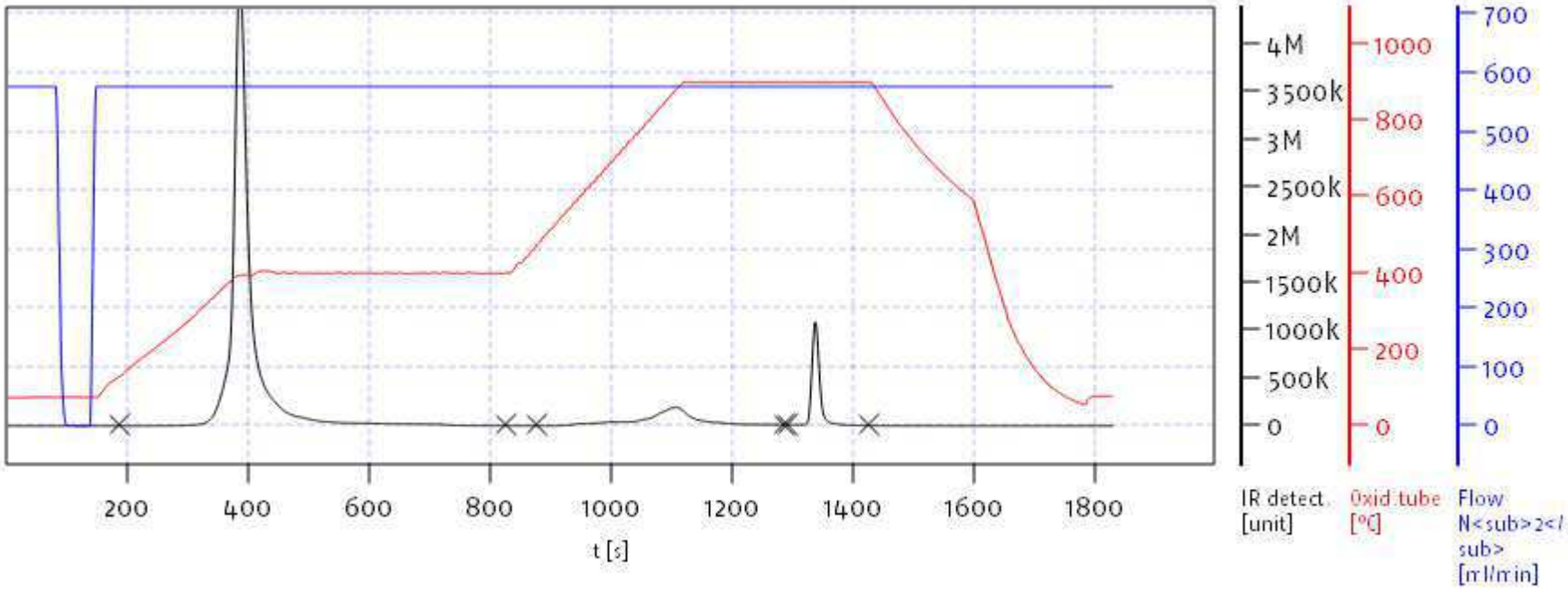
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
157	17	21H0061-06RE1	157.50		1.00	CARBON	8/29/2021 12:36 AM	6.566	0.765	7.331	bl	5 574 890	725 044	620 006	0.9913	1.0000



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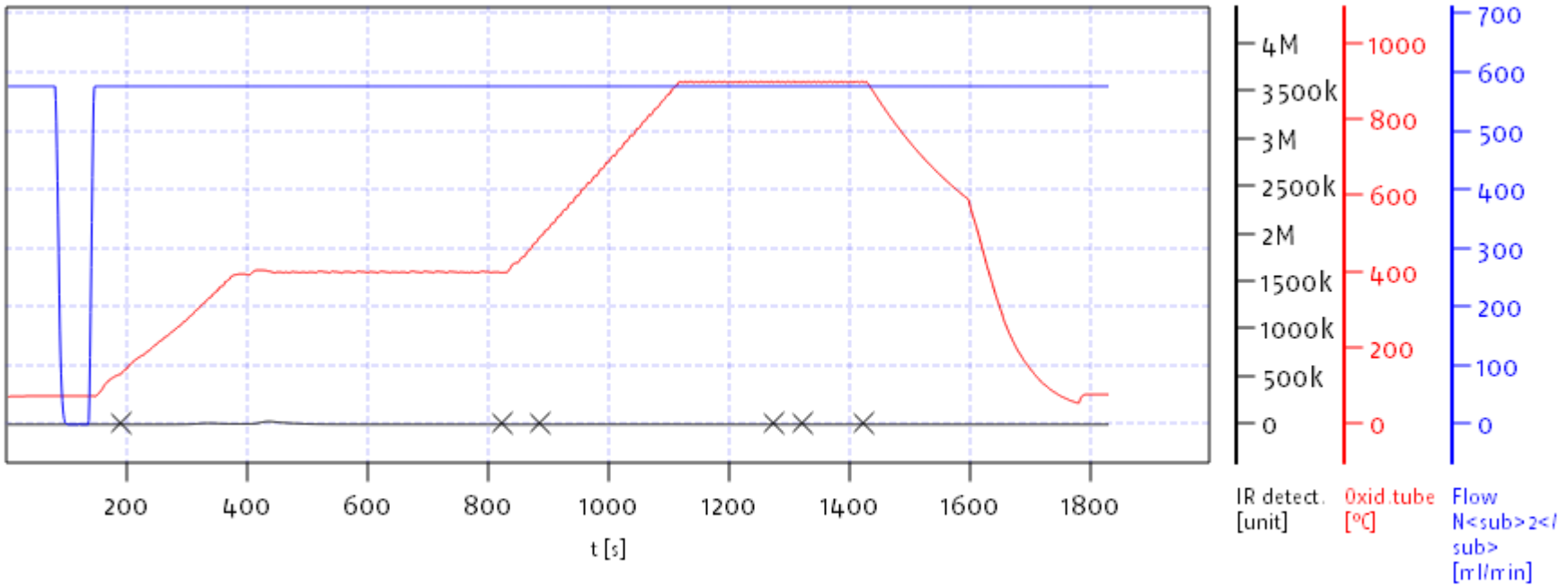
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
158	18	BJH0674-MRL1	519.00		1.00	CARBON	8/29/2021 1:07 AM	0.028	0.000	0.028	bl,C3u,C2u	97 908	6 907	347	0.9913	1.0000



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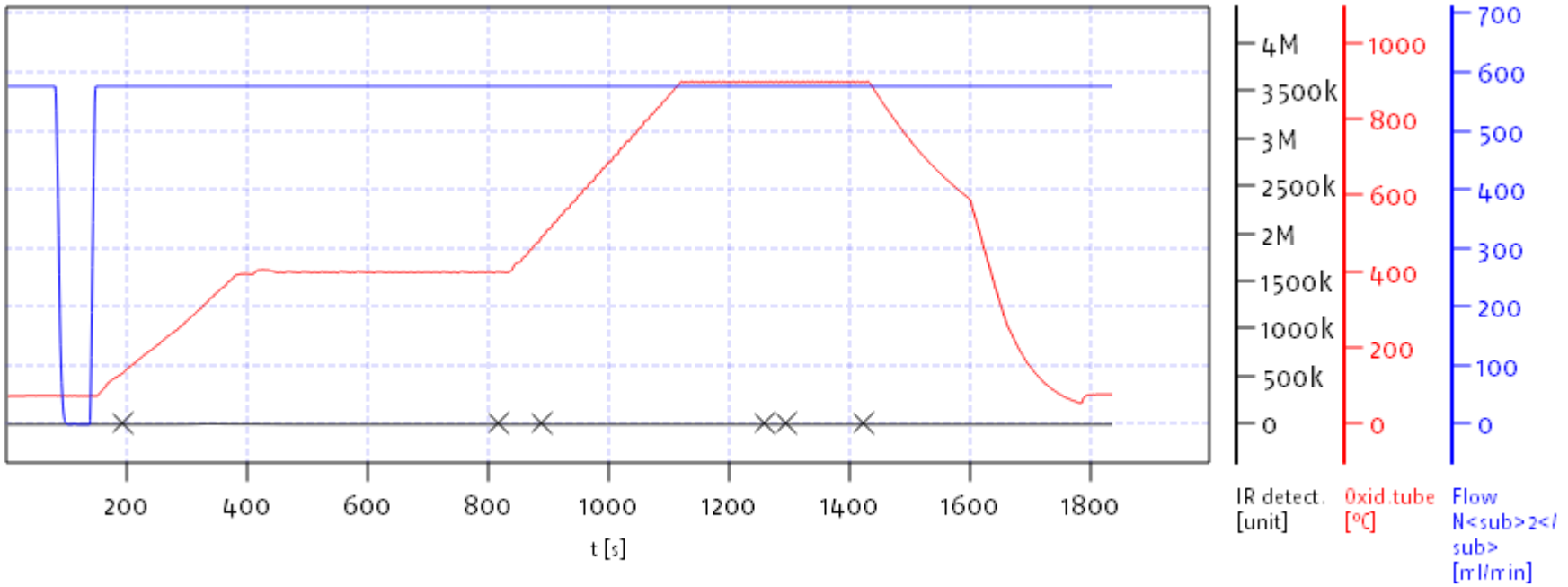
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
159	19	BJH0674-BLK1	618.30		1.00	CARBON	8/29/2021 1:38 AM	0.003	0.000	0.003	bl,C3u,C2u	23 033	2 269	472	0.9913	1.0000



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Date: Tue Aug 31 14:32:59 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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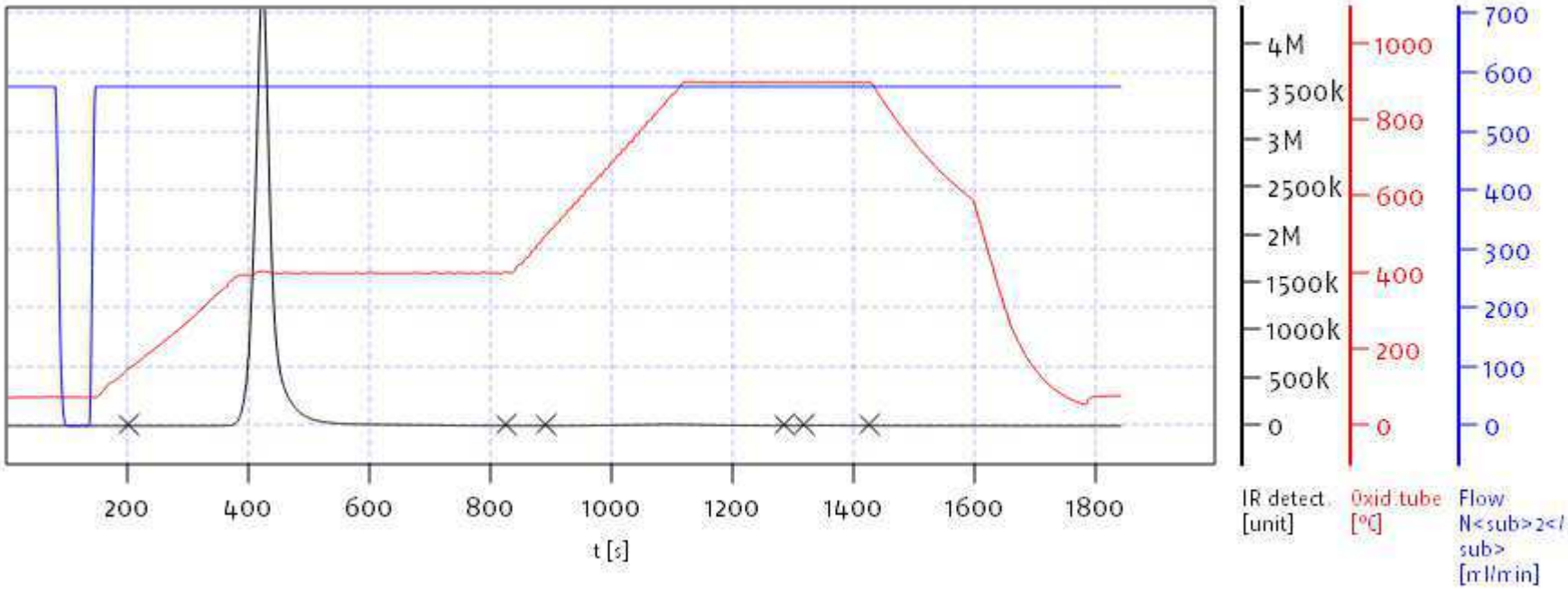
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
160	20	SJH0331-CCVD	20.30		1.00	CARBON	8/29/2021 2:10 AM	45.619	0.782	46.401	bl	5 540 110	105 612	14 448	0.9913	1.0000



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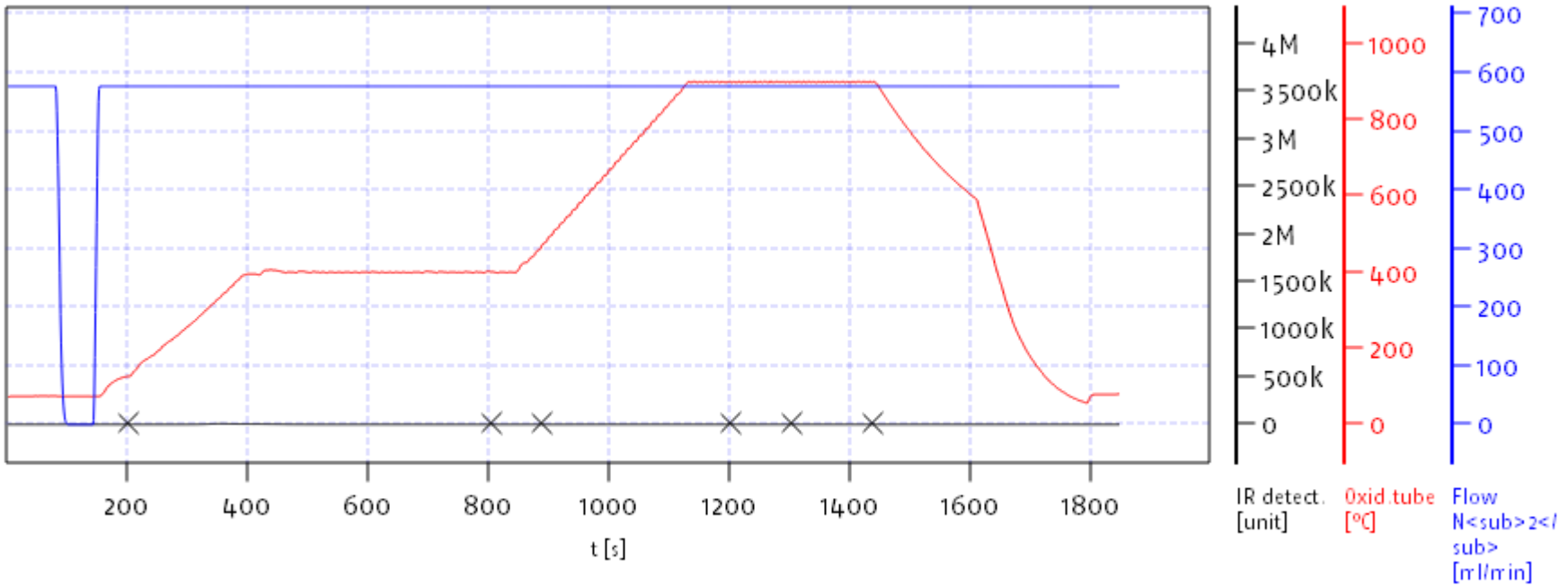
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
161	21	SJH0331-CCBD	664.20		1.00	CARBON	8/29/2021 2:41 AM	0.004	0.000	0.004	bl,C3u,C2u	25 929	1 898	287	0.9913	1.0000



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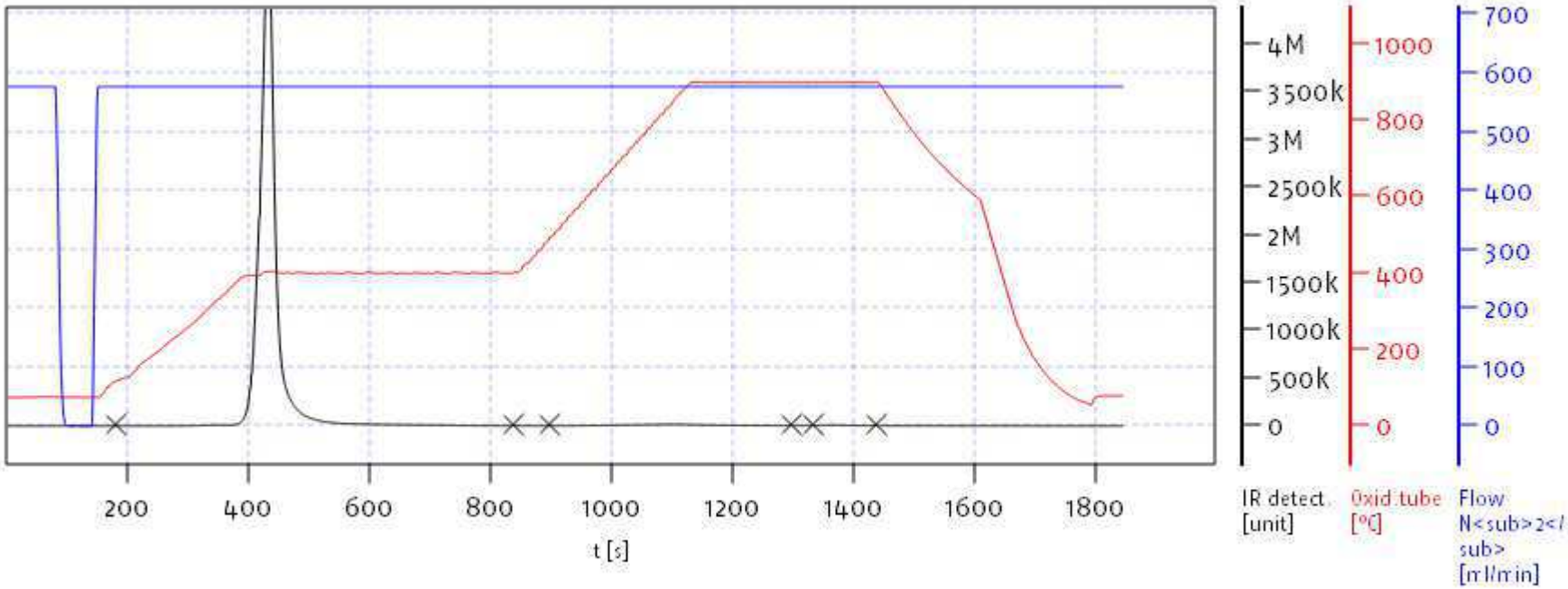
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
162	22	BJH0674-BS1	20.70		1.00	CARBON	8/29/2021 3:12 AM	45.521	0.772	46.292	bl	5 631 530	106 242	19 786	0.9913	1.0000



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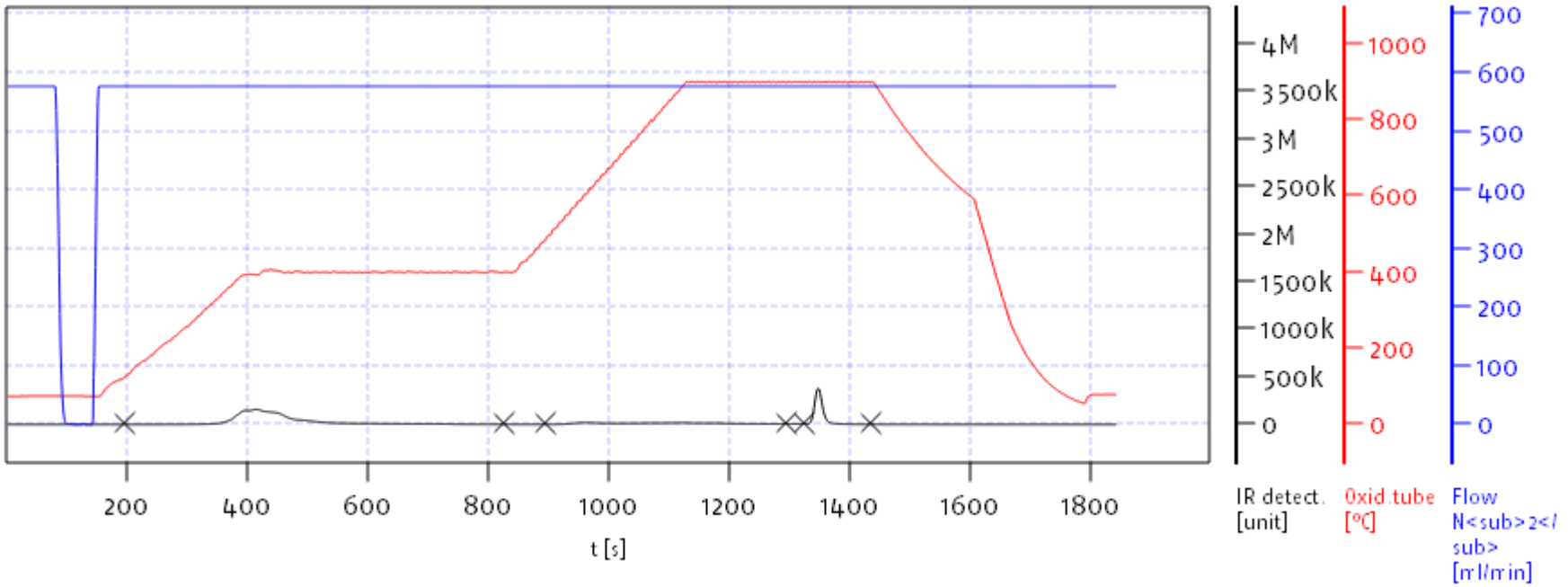
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
163	23	BJH0674-SRM1	54.60		1.00	CARBON	8/29/2021 3:43 AM	2.569	0.462	3.031	bl	634 862	161 145	224 316	0.9913	1.0000



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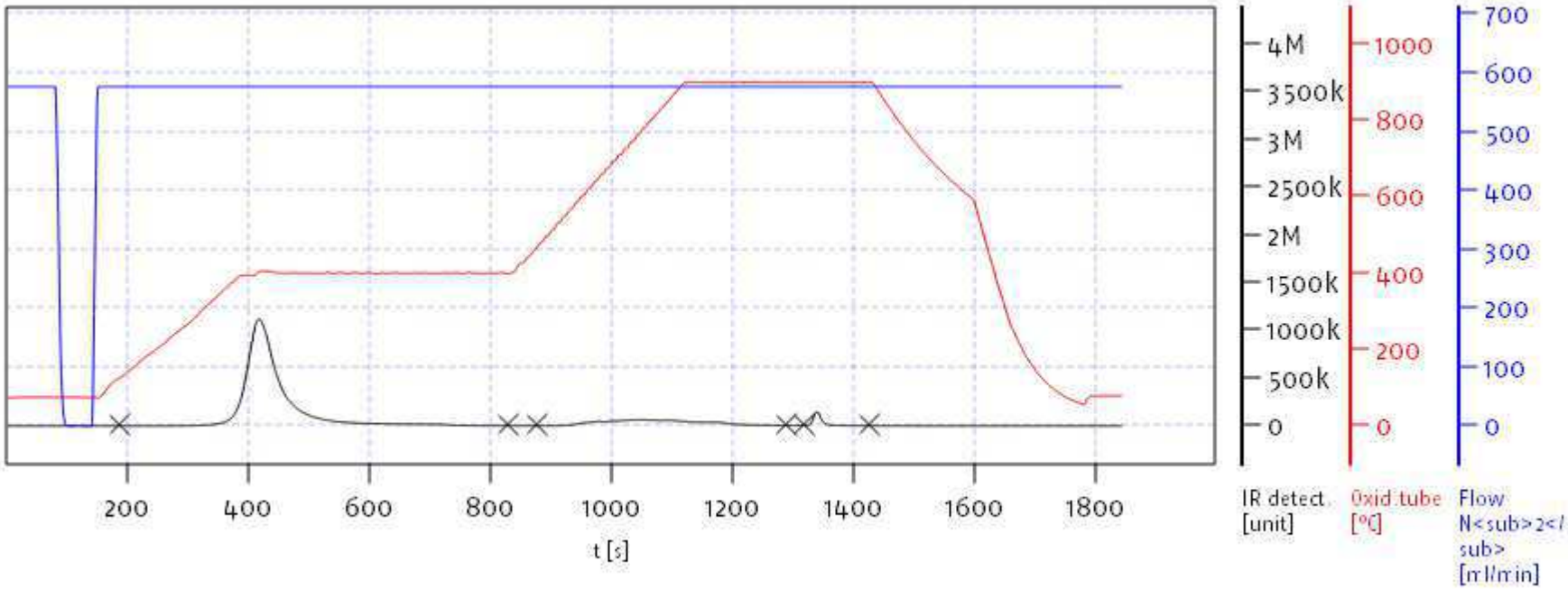
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
164	24	21H0244-01	598.90		1.00	CARBON	8/29/2021 4:14 AM	0.785	0.135	0.920	bl	2 735 500	491 425	93 499	0.9913	1.0000



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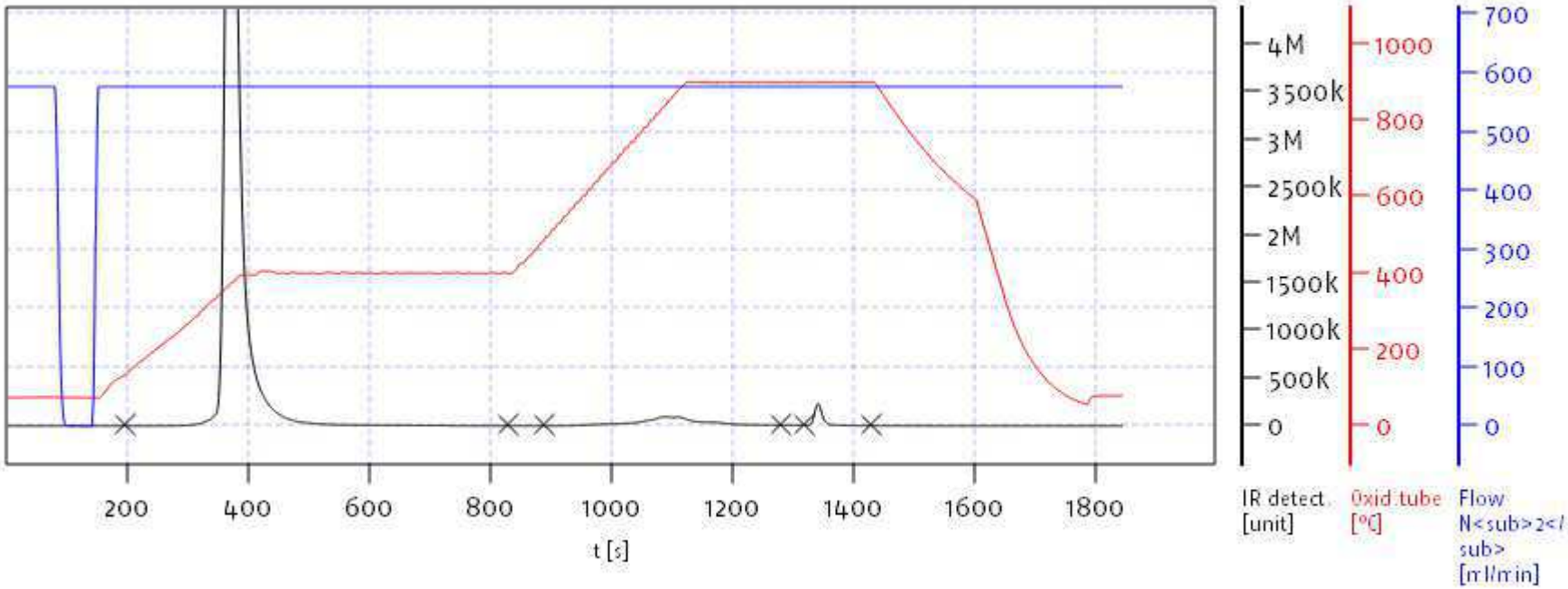
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
165	25	21H0260-01	202.60		1.00	CARBON	8/29/2021 4:46 AM	7.327	0.359	7.686	bl,Cl o	8 747 300	442 274	141 368	0.9913	1.0000



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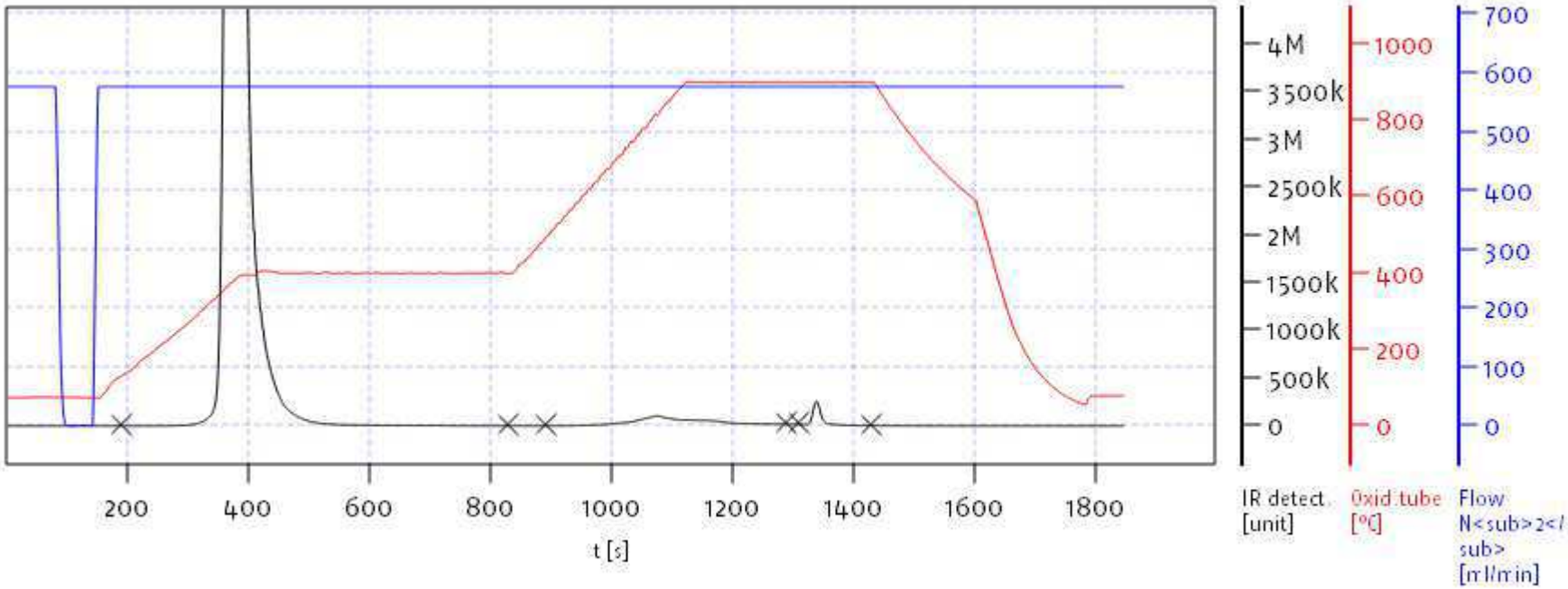
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
166	26	21H0260-02	170.80		1.00	CARBON	8/29/2021 5:17 AM	19.149	0.520	19.670	bl,C1o	19 383800	538 066	173 440	0.9913	1.0000



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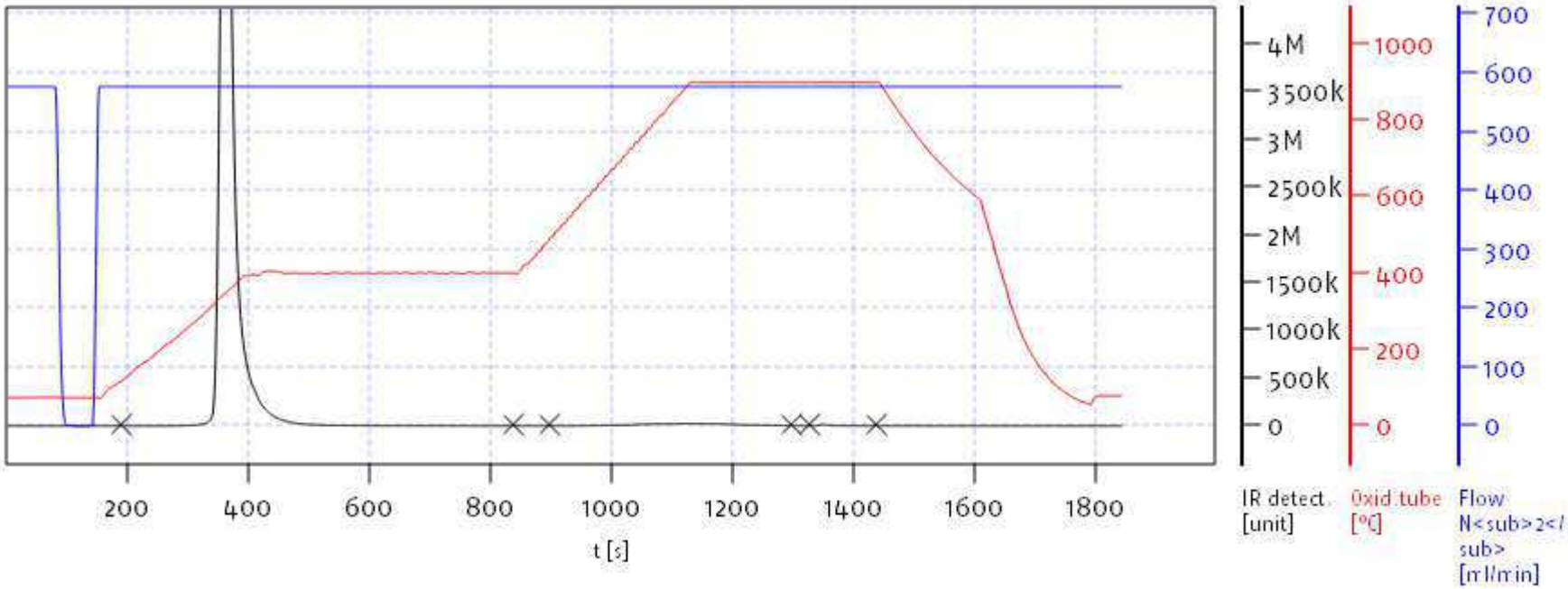
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
167	27	21H0260-03	206.90		1.00	CARBON	8/29/2021 5:48 AM	6.145	0.130	6.275	bl	7 604 160	170 475	13 148	0.9913	1.0000



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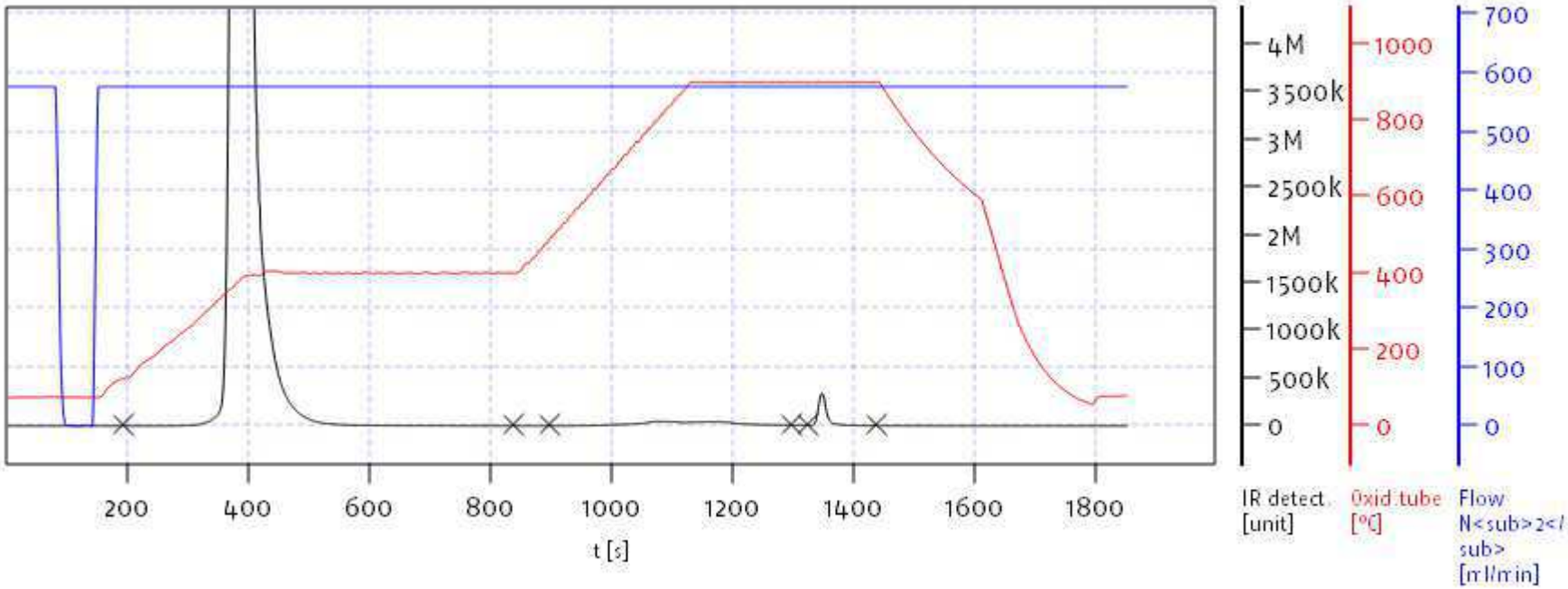
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
168	28	21H0261-01	209.00		1.00	CARBON	8/29/2021 6:19 AM	14.878	0.250	15.127	bl,Clo	18 385400	320 810	208 132	0.9913	1.0000



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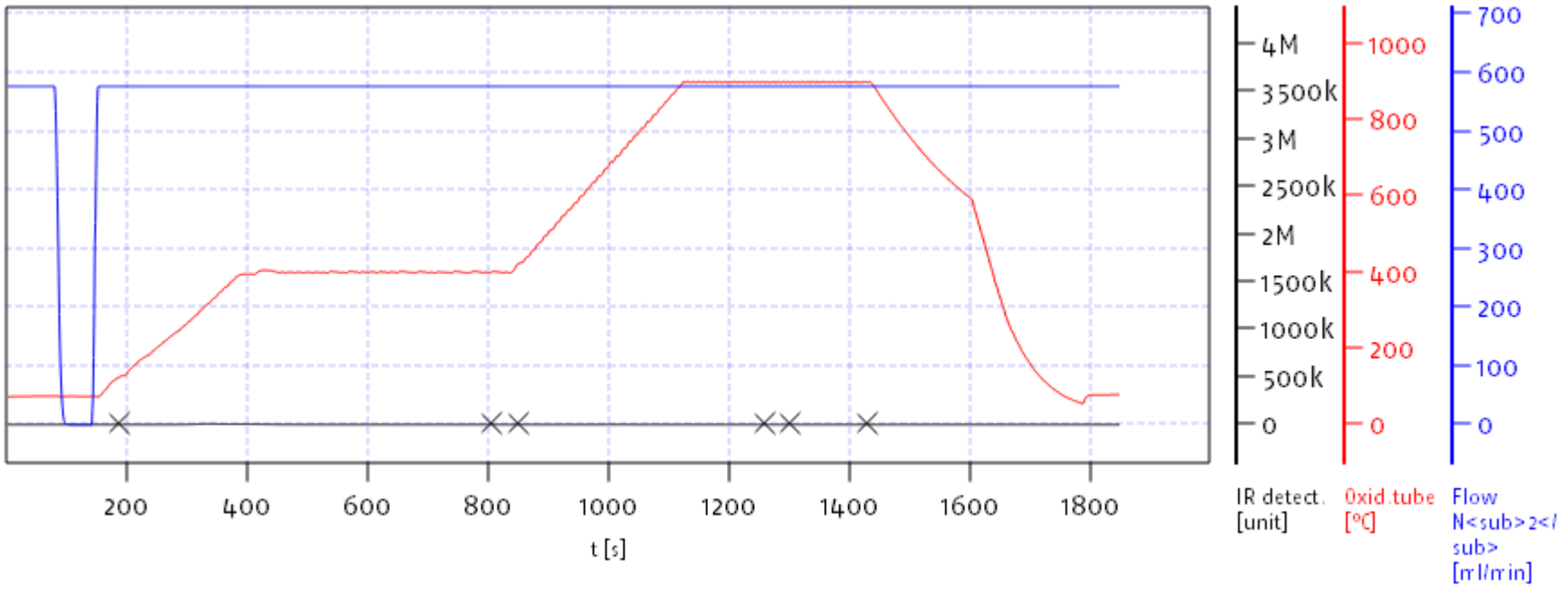
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
169	29	BLANK	1.00		1.00	CARBON	8/29/2021 6:51 AM	0.000	0.000	0.000	bl	28 416	2 891	319	0.9913	1.0000



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Soli TOC Cube, Carbon
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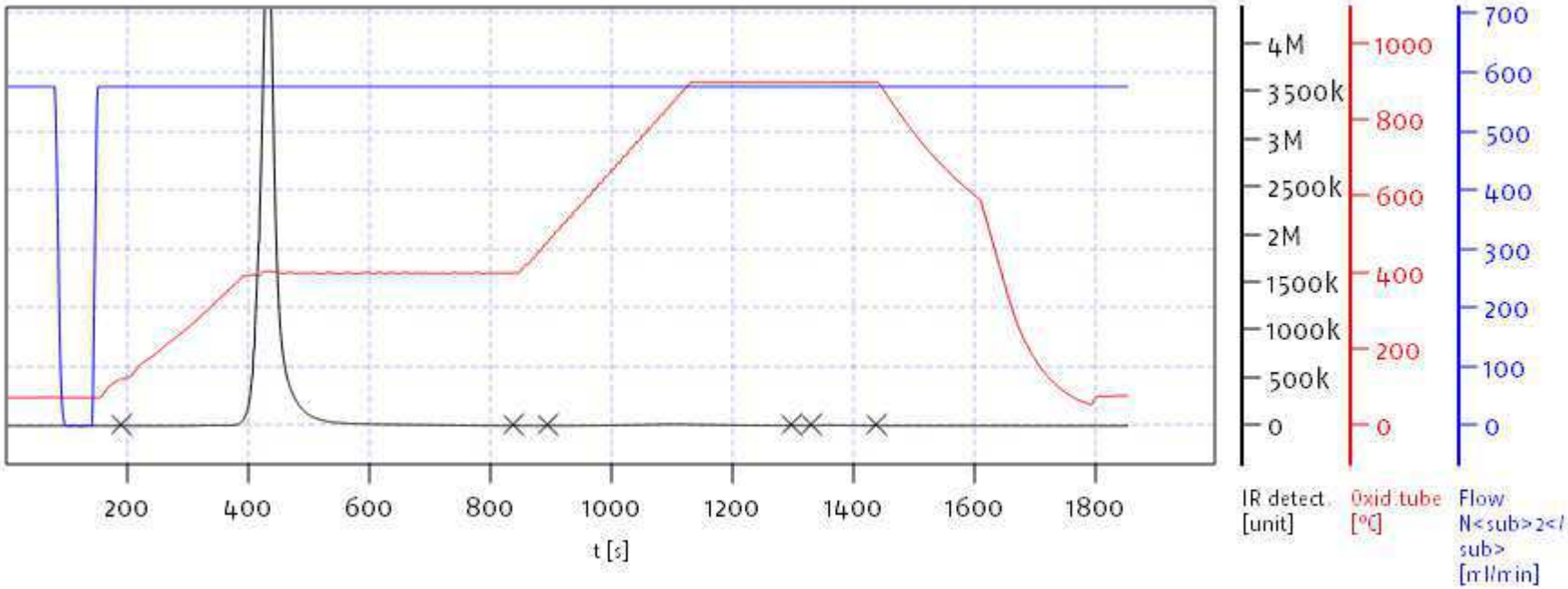
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
170	30	Dfactor	21.90		1.00	CARBON	8/29/2021 7:22 AM	44.490	0.782	45.272	bl	5 966 290	113 062	17 465	0.9679	1.0000



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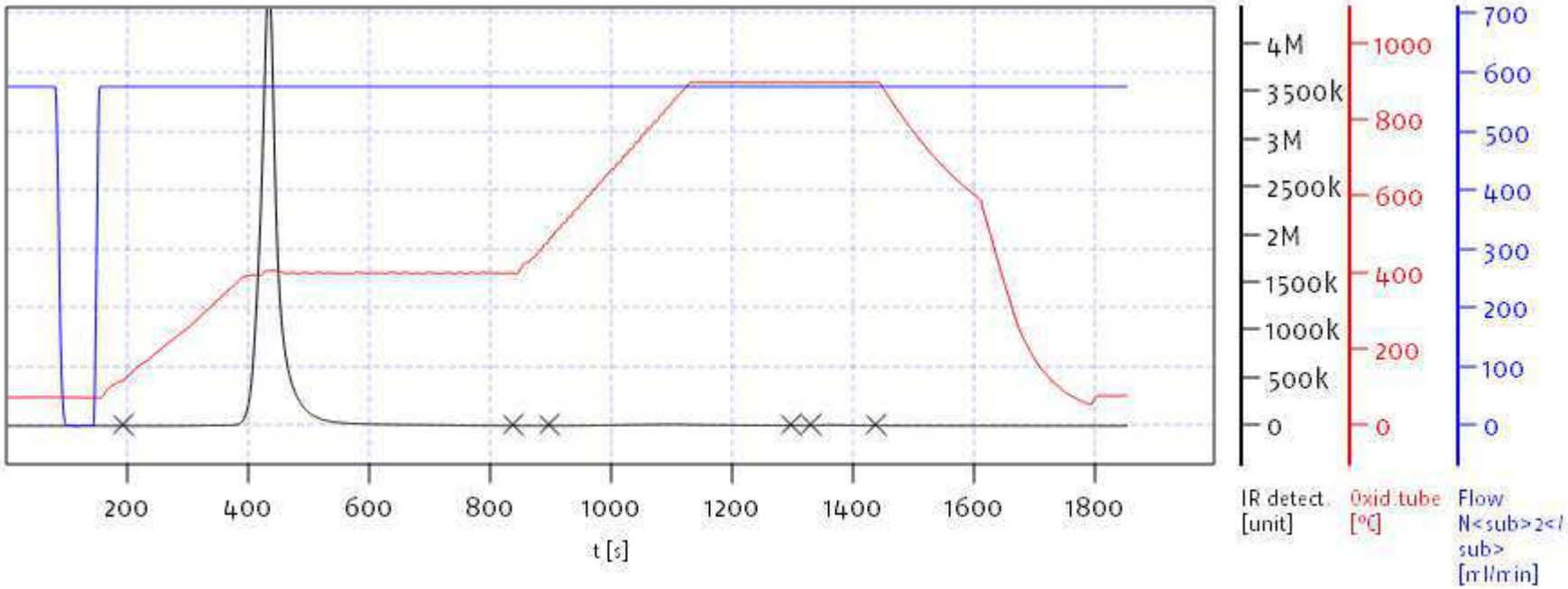
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
171	31	Dfactor	21.20		1.00	CARBON	8/29/2021 7:53 AM	44.523	0.814	45.338	bl	5 808 890	113 876	21 433	0.9624	1.0000



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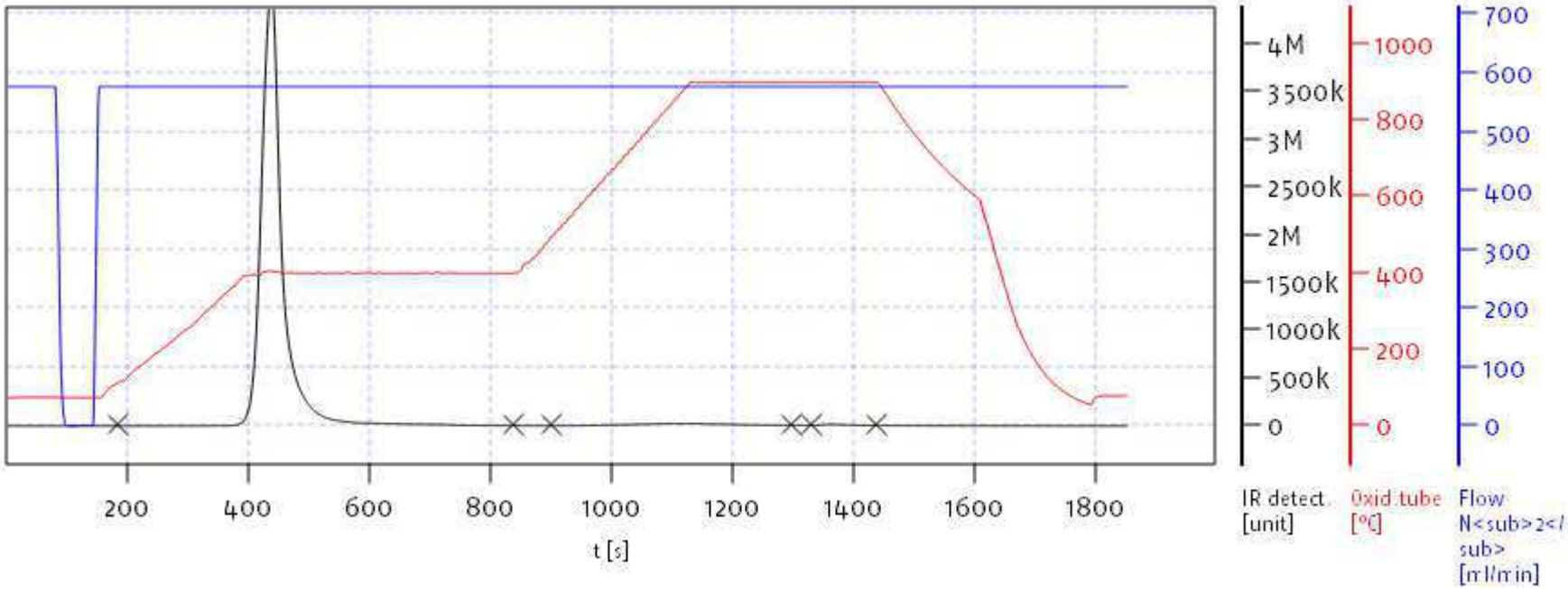
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
172	32	SJH0331-CCVE	25.60		1.00	CARBON	8/29/2021 8:25 AM	43.530	1.131	44.661	bl	6 823 460	183 162	35 661	0.9651	1.0000



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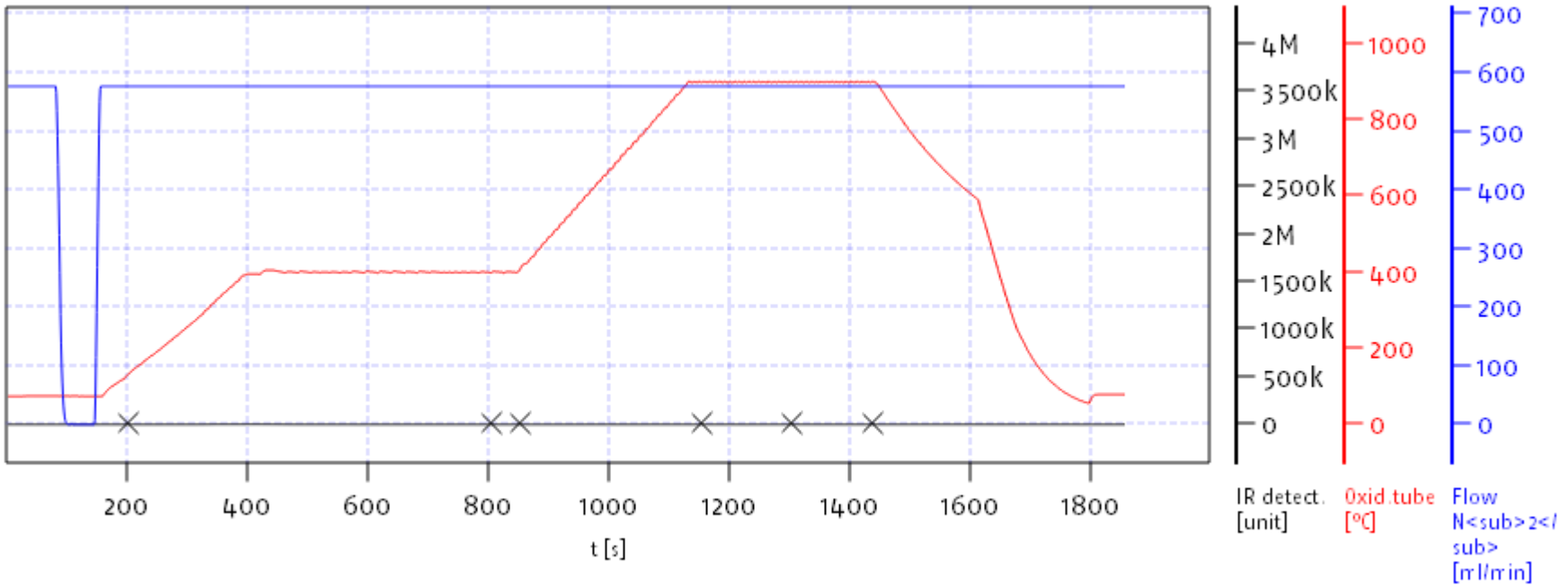
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
173	33	SJH0331-CCBE	558.70		1.00	CARBON	8/29/2021 8:56 AM	0.000	0.000	0.000	bl,C3u,C2u	8 363	771	466	0.9651	1.0000



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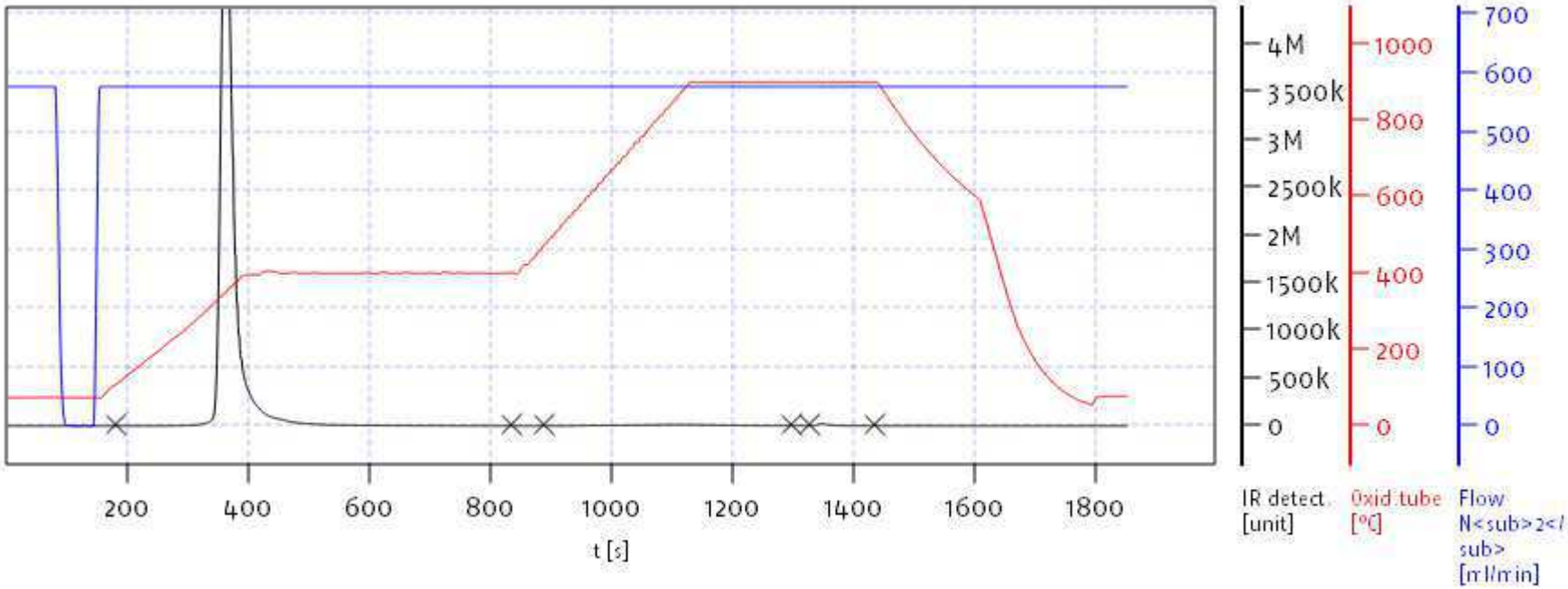
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
174	34	21H0261-02	203.40		1.00	CARBON	8/29/2021 9:28 AM	4.376	0.063	4.439	bl	5 463 700	87 012	20 134	0.9651	1.0000



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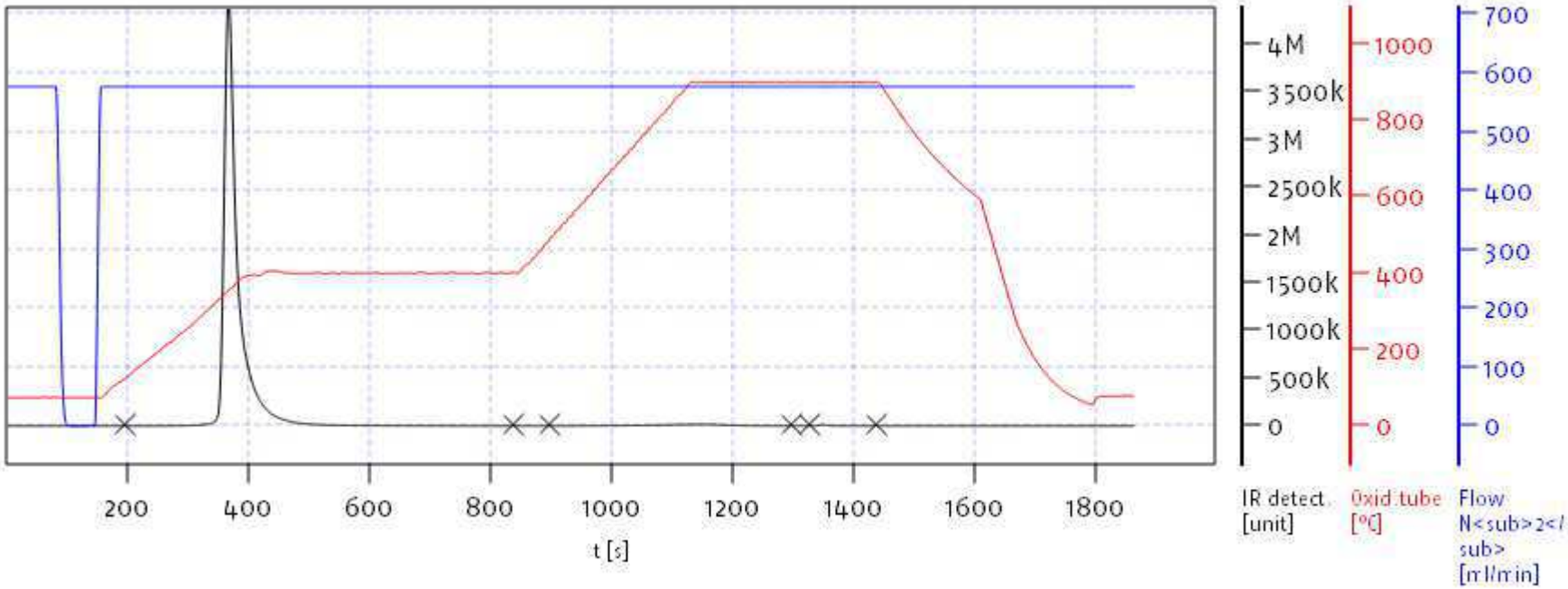
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
175	35	21H0261-03	159.20		1.00	CARBON	8/29/2021 9:59 AM	4.463	0.073	4.536	bl	4 370 410	80 886	9 432	0.9651	1.0000



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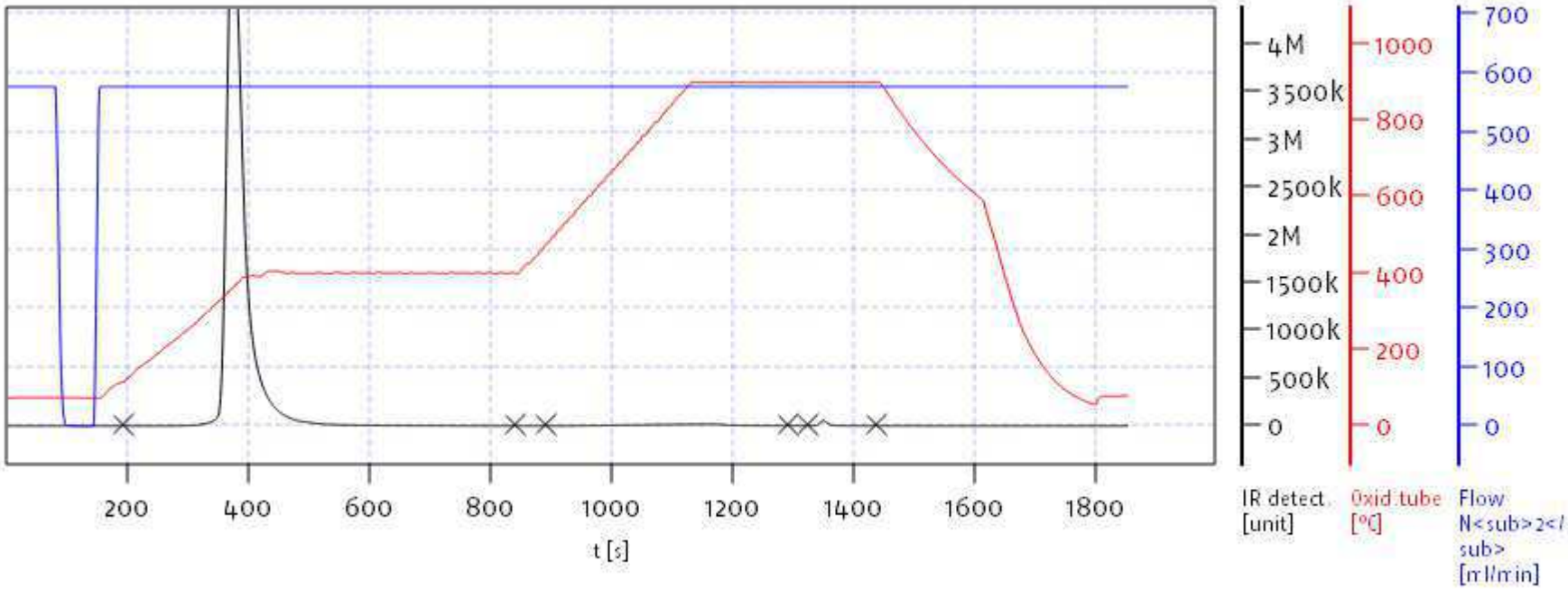
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
176	36	21H0261-04	216.30		1.00	CARBON	8/29/2021 10:30 AM	5.130	0.077	5.207	bl	6 795 630	110 543	34 709	0.9651	1.0000



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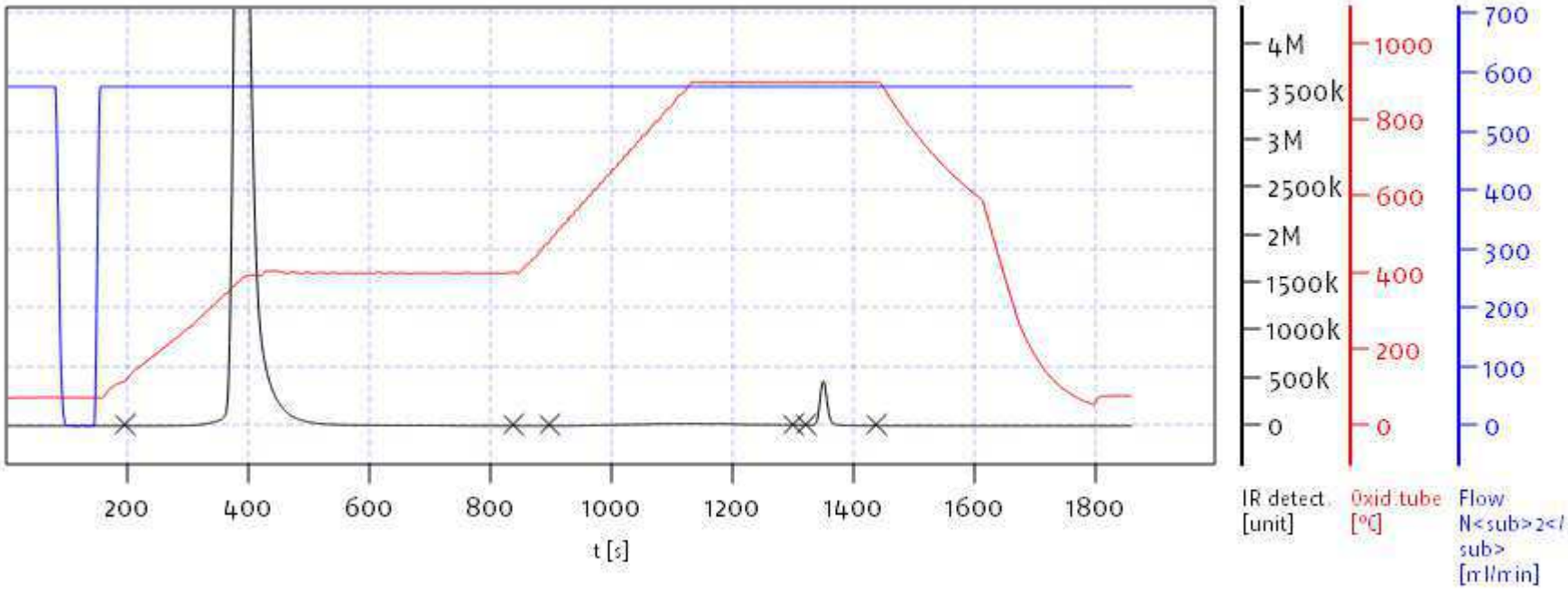
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
177	37	21H0262-01	157.10		1.00	CARBON	8/29/2021 11:02 AM	10.857	0.204	11.061	bl,Co	10 220 000	201 520	258 859	0.9651	1.0000



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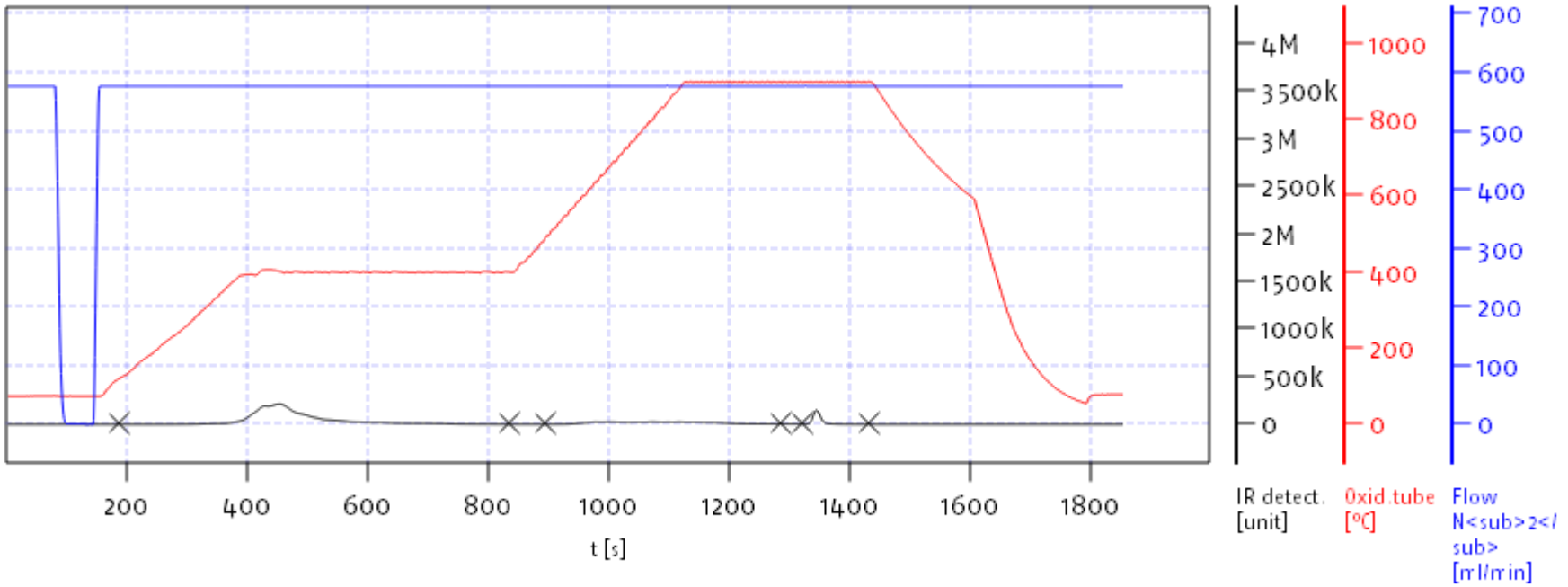
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
178	38	21H0263-01	564.90		1.00	CARBON	8/29/2021 11:33 AM	0.278	0.069	0.347	bl	895 505	242 038	88 665	0.9651	1.0000



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Date: Tue Aug 31 14:32:59 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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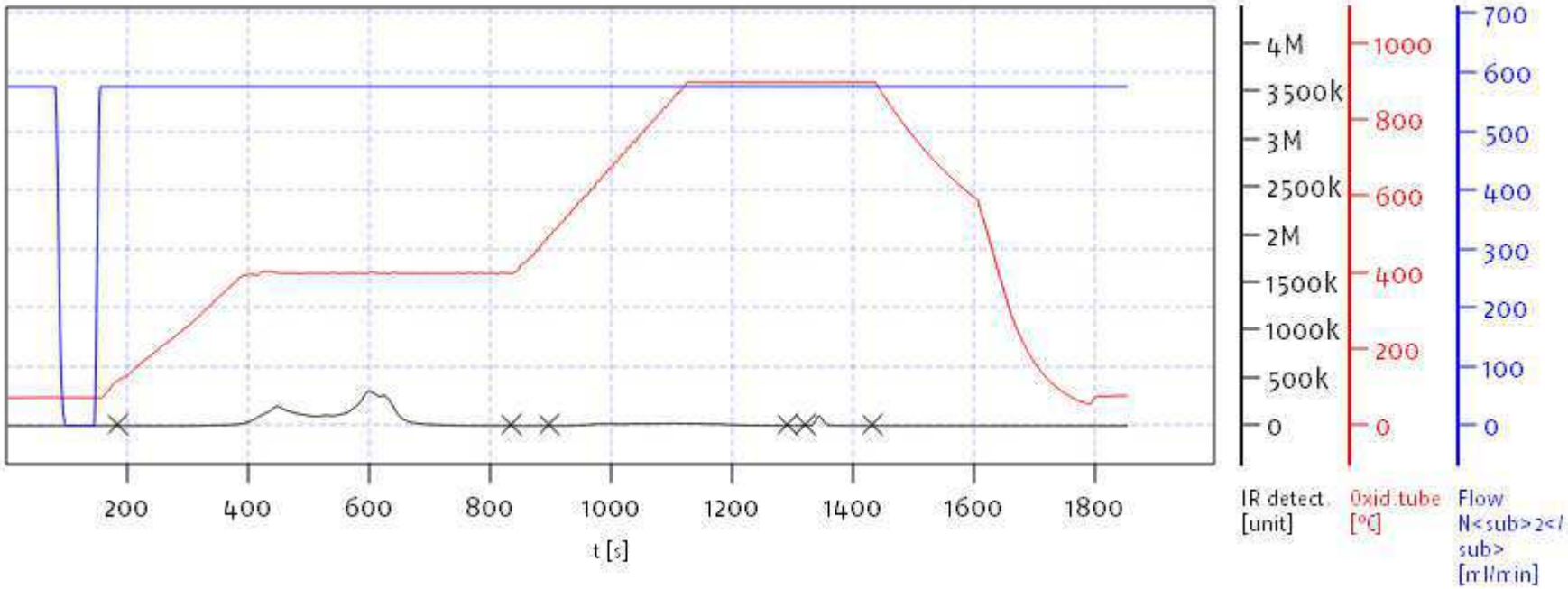
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
179	39	BJH0674-DUP1	530.50		1.00	CARBON	8/29/2021 12:05 PM	0.546	0.065	0.611	bl	1 737 790	214 569	61 081	0.9651	1.0000



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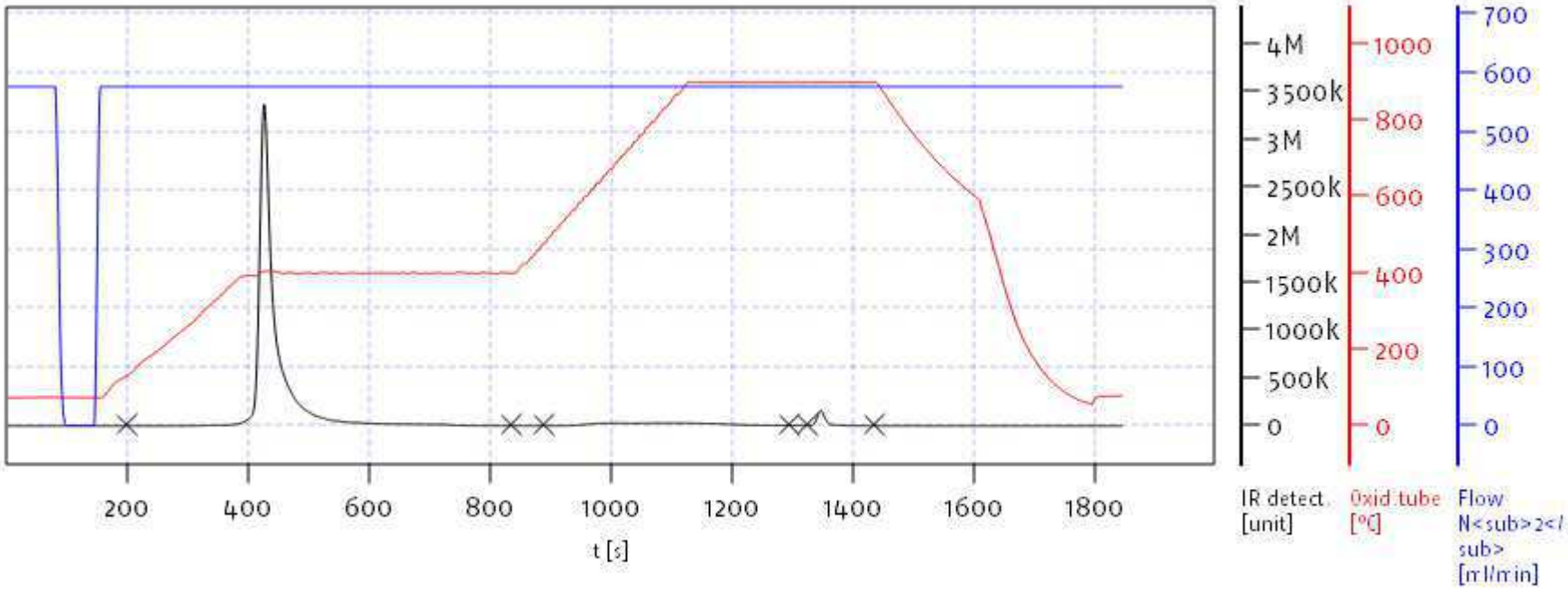
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
180	40	BJH0674-MS1	545.40	0.0106	1.00	CARBON	8/29/2021 12:36 PM	1.140	0.081	1.221	bl	3 733 680	273 424	100 090	0.9651	1.0000



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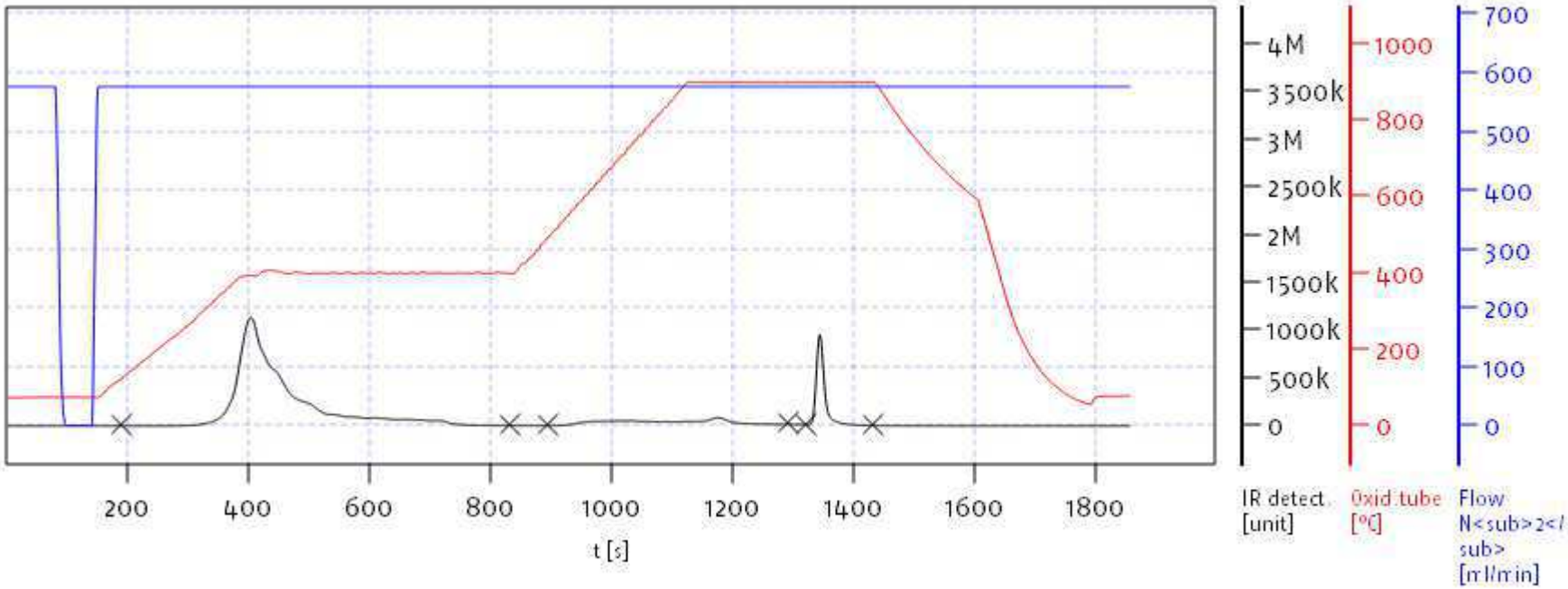
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
181	41	21H0274-01	165.80		1.00	CARBON	8/29/2021 1:07 PM	4.321	0.571	4.892	bl	3 818 180	572 056	580 044	0.9651	1.0000



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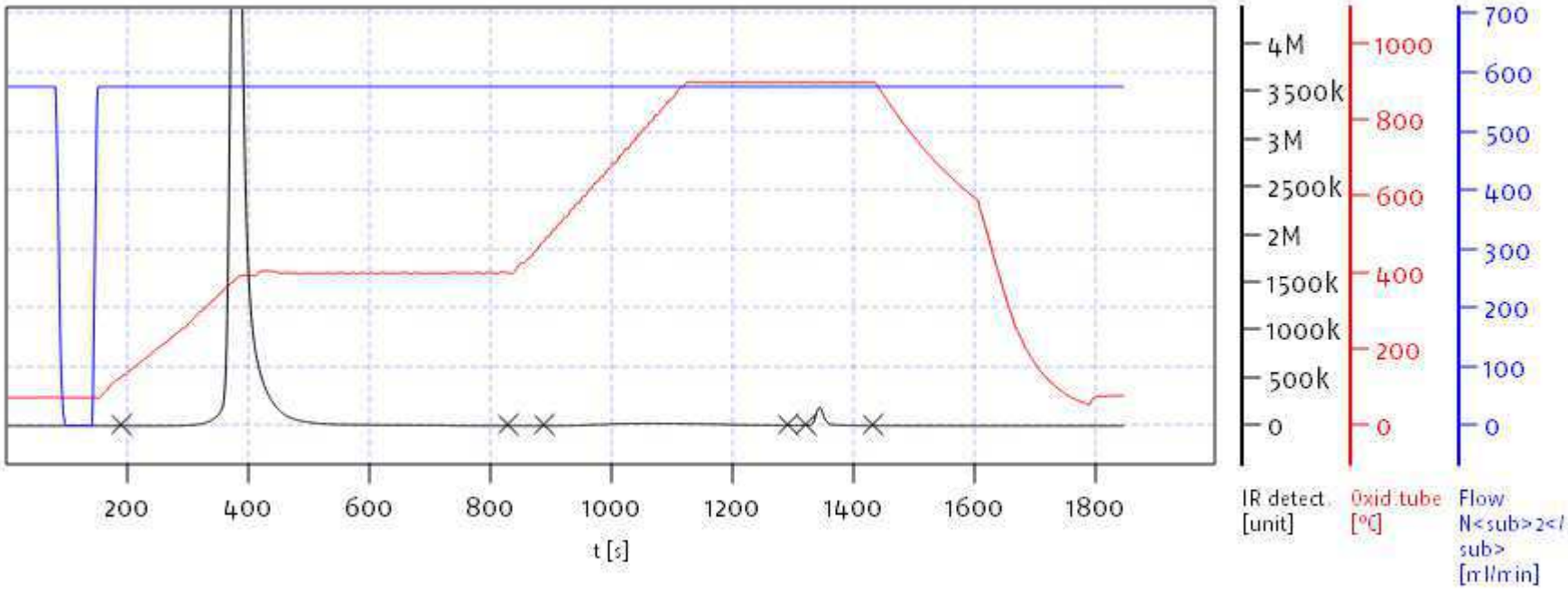
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
182	42	21H0274-02	138.80		1.00	CARBON	8/29/2021 1:39 PM	9.473	0.246	9.719	bl	7 959 620	213 893	126 043	0.9651	1.0000



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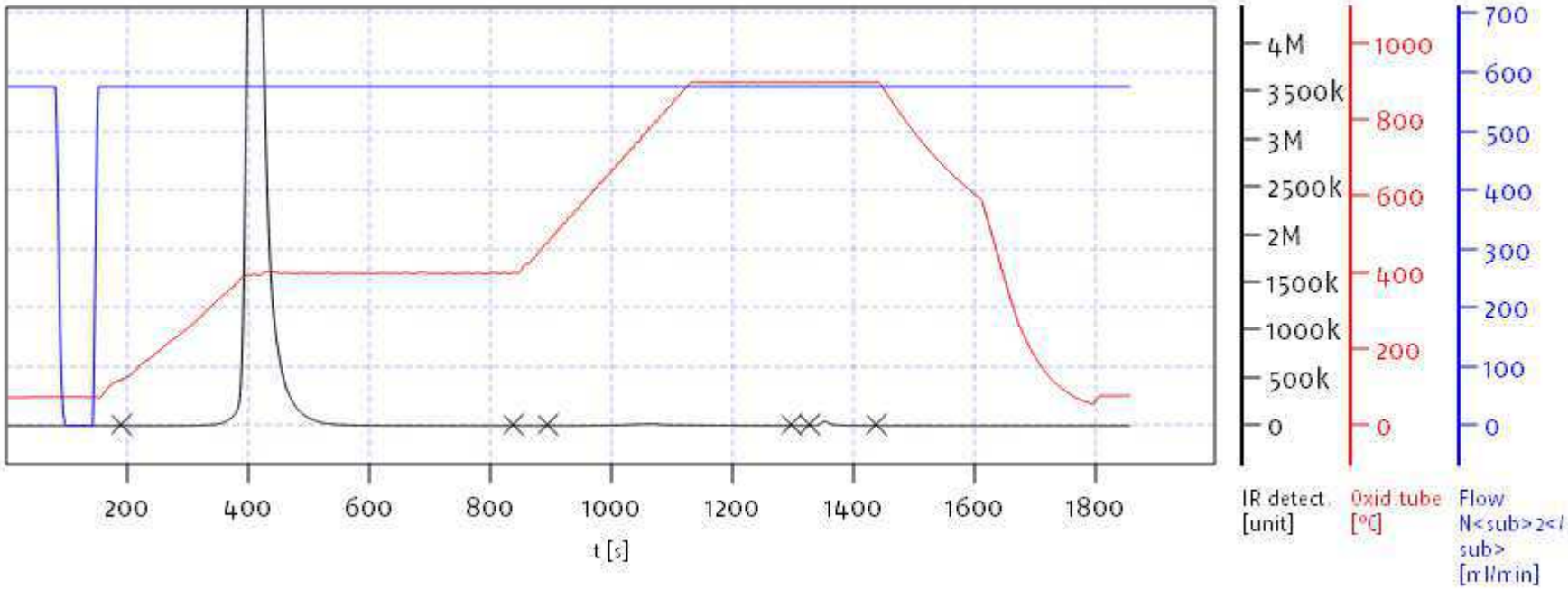
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
183	43	21H0274-03	520.80		1.00	CARBON	8/29/2021 2:10 PM	2.924	0.026	2.950	bl,Cl o	9 325 870	92 408	39 198	0.9651	1.0000



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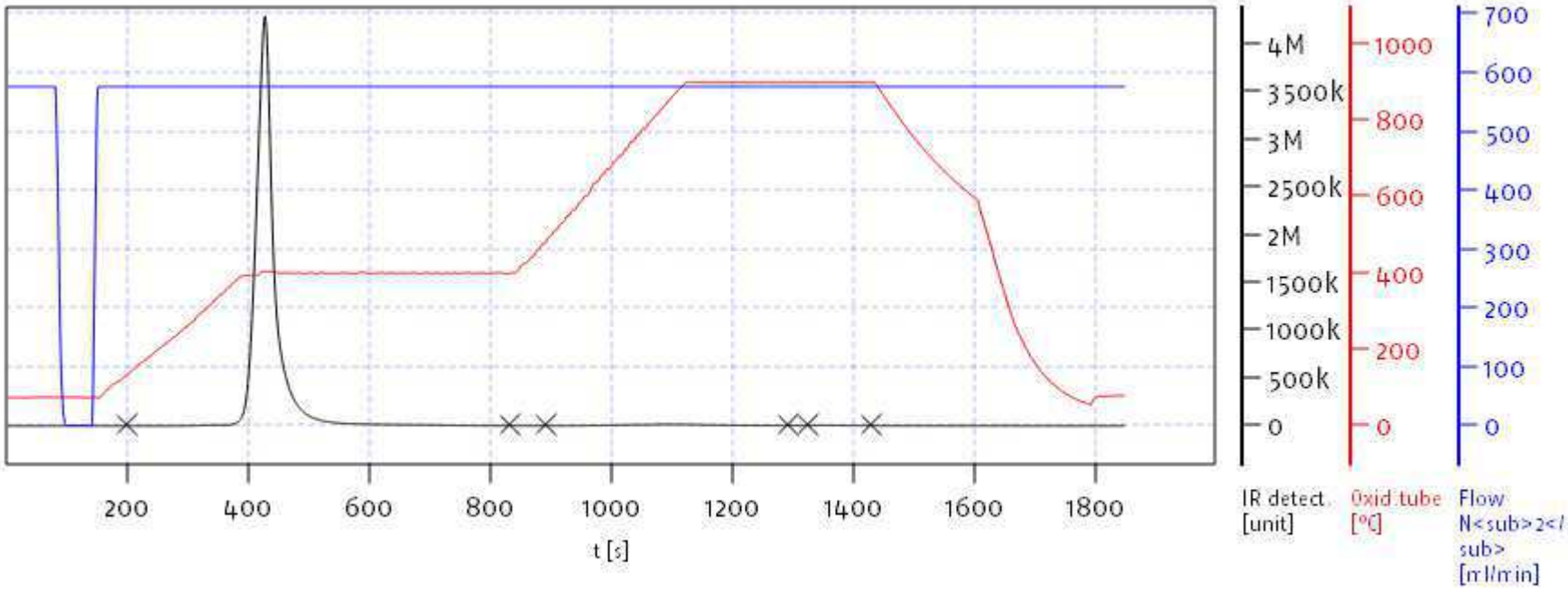
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
184	44	SJH0331-CCVF	20.30		1.00	CARBON	8/29/2021 2:41 PM	44.779	0.801	45.580	bl	5 584 430	107 969	15 612	0.9651	1.0000



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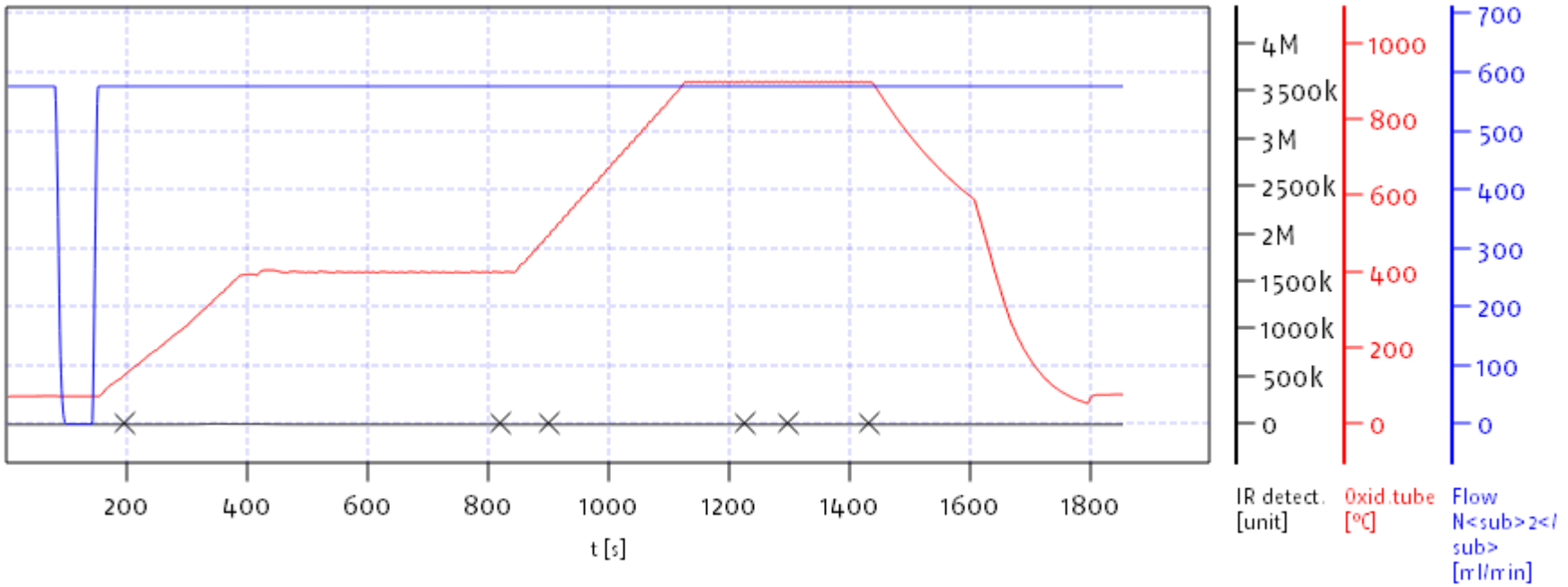
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
185	45	SJH0331-CCBF	512.70		1.00	CARBON	8/29/2021 3:13 PM	0.004	0.000	0.004	bl,C3u,C2u	24 272	1 086	436	0.9651	1.0000



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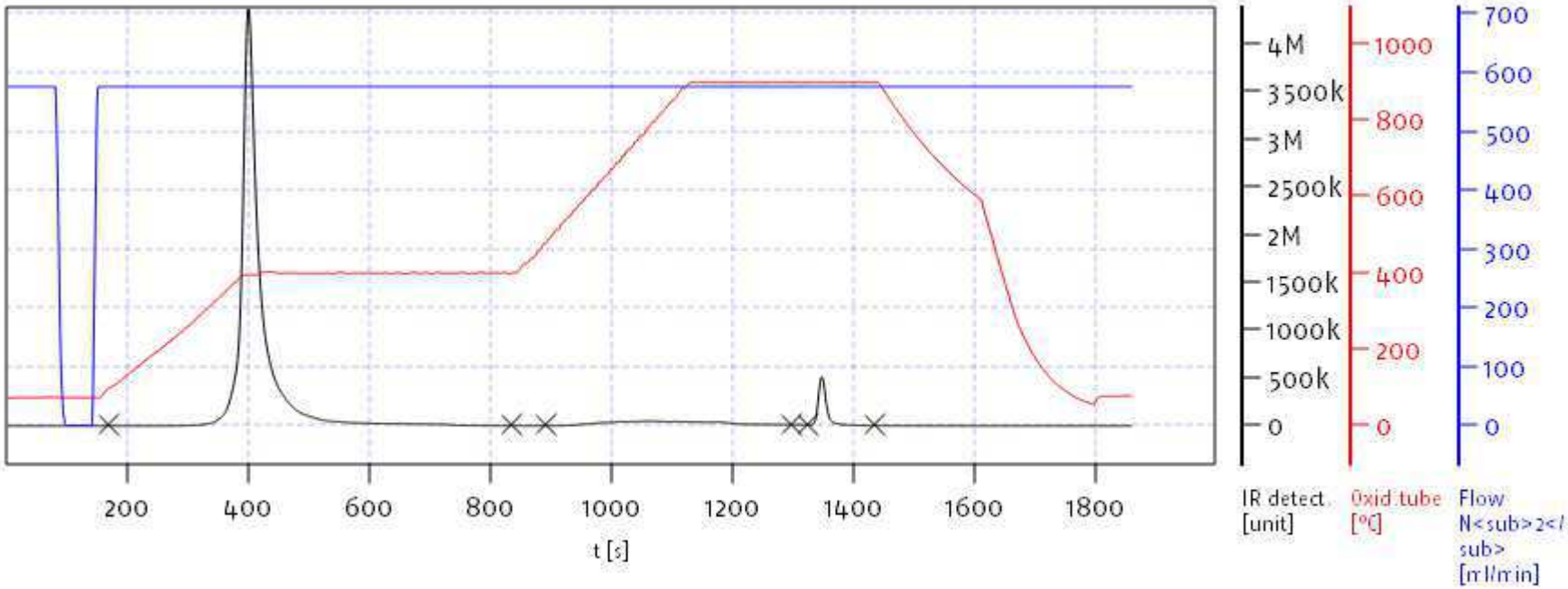
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
186	46	21H0274-04	172.00		1.00	CARBON	8/29/2021 3:44 PM	5.685	0.416	6.101	bl	5 703 440	435 100	307 981	0.9651	1.0000



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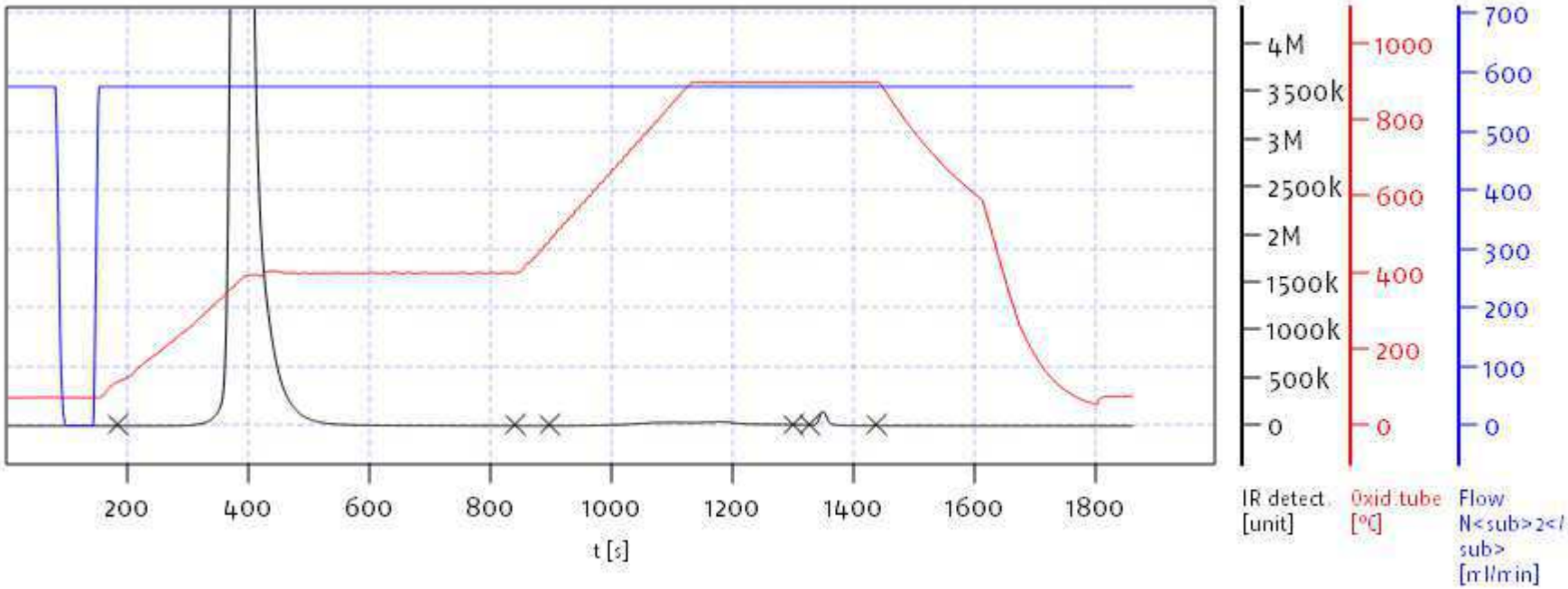
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
187	47	21H0275-01	152.70		1.00	CARBON	8/29/2021 4:16 PM	18.942	0.327	19.268	bl,C1o	17 668300	307 174	96 733	0.9651	1.0000



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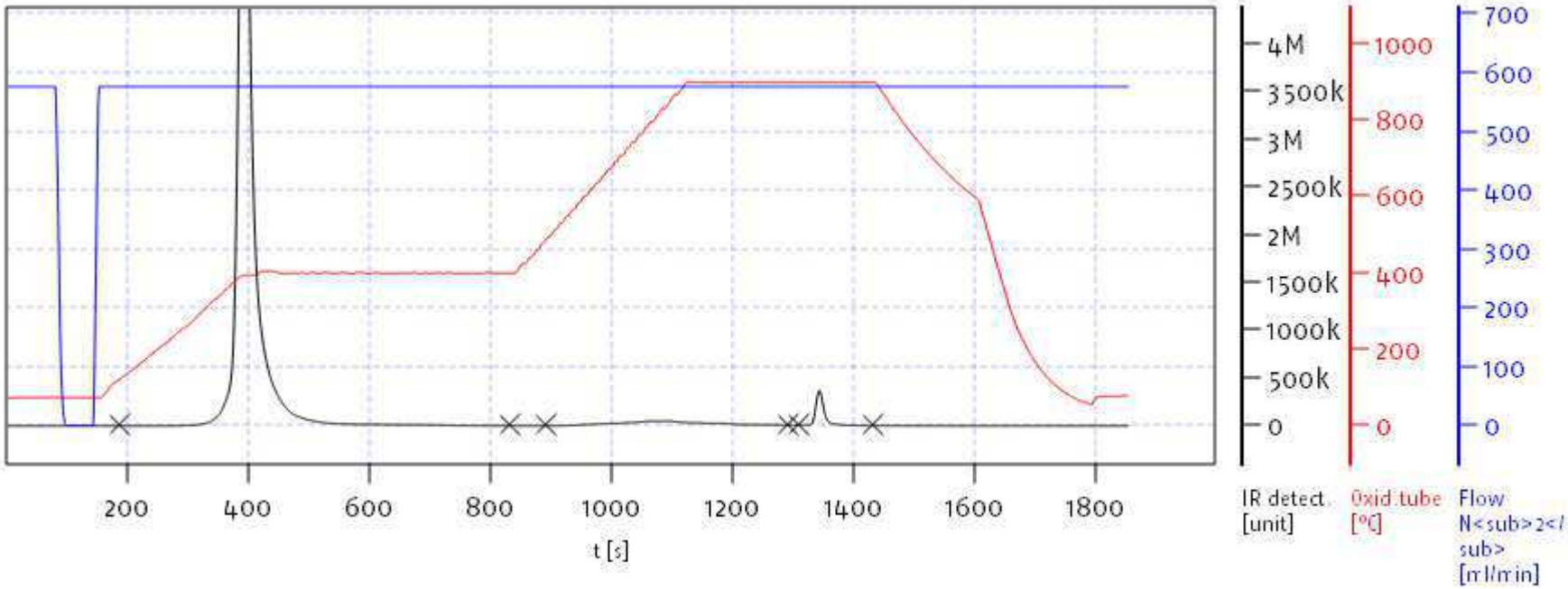
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
188	48	21H0275-02	181.60		1.00	CARBON	8/29/2021 4:47 PM	7.225	0.314	7.540	bl	7 834 780	349 790	230 470	0.9651	1.0000



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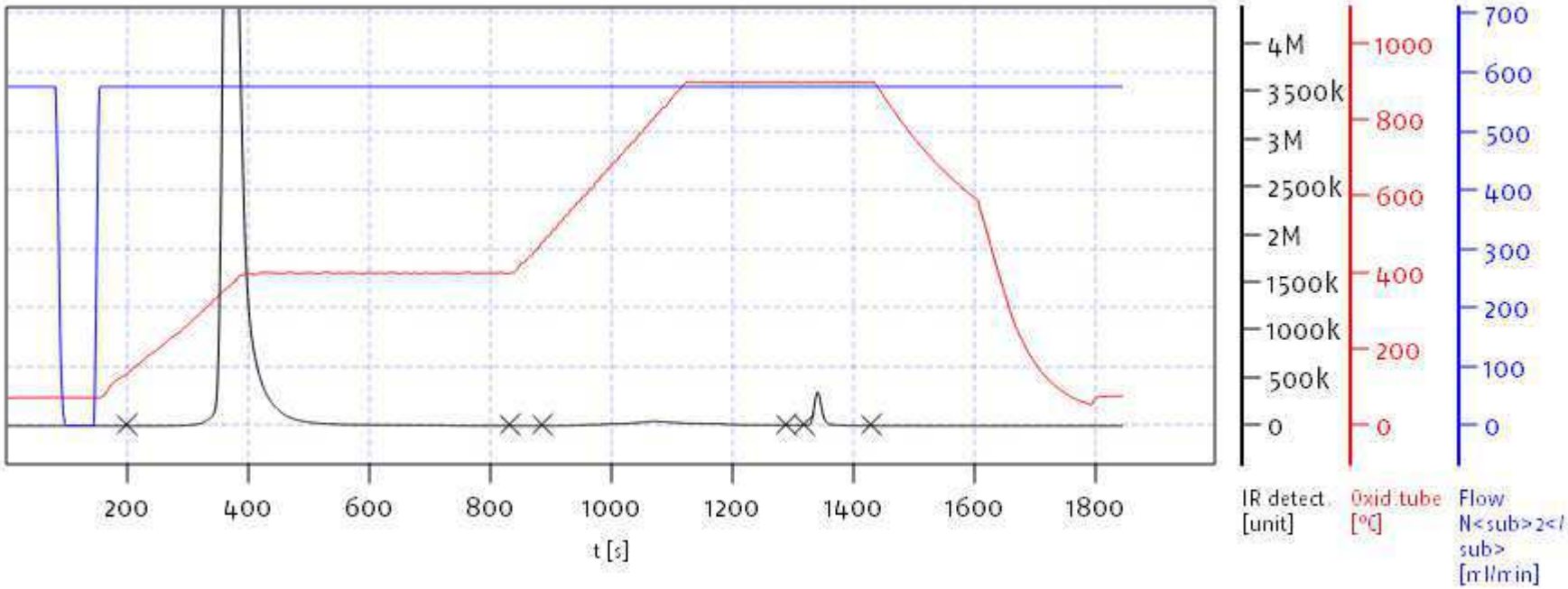
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
189	49	21H0275-03	175.40		1.00	CARBON	8/29/2021 5:18 PM	9.928	0.256	10.184	bl,C1o	10 495 200	278 007	204 224	0.9651	1.0000



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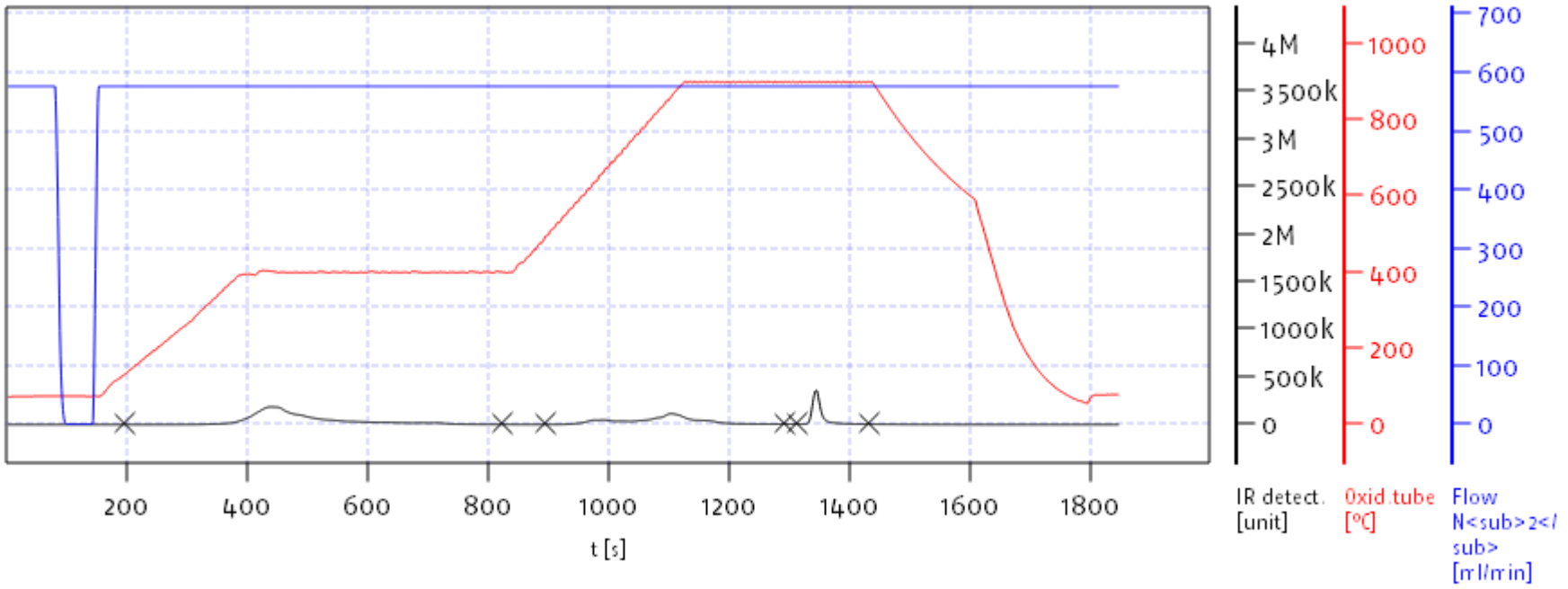
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
190	50	21H0275-04	595.50		1.00	CARBON	8/29/2021 5:49 PM	0.288	0.138	0.426	bl	832 669	498 138	234 707	0.9651	1.0000



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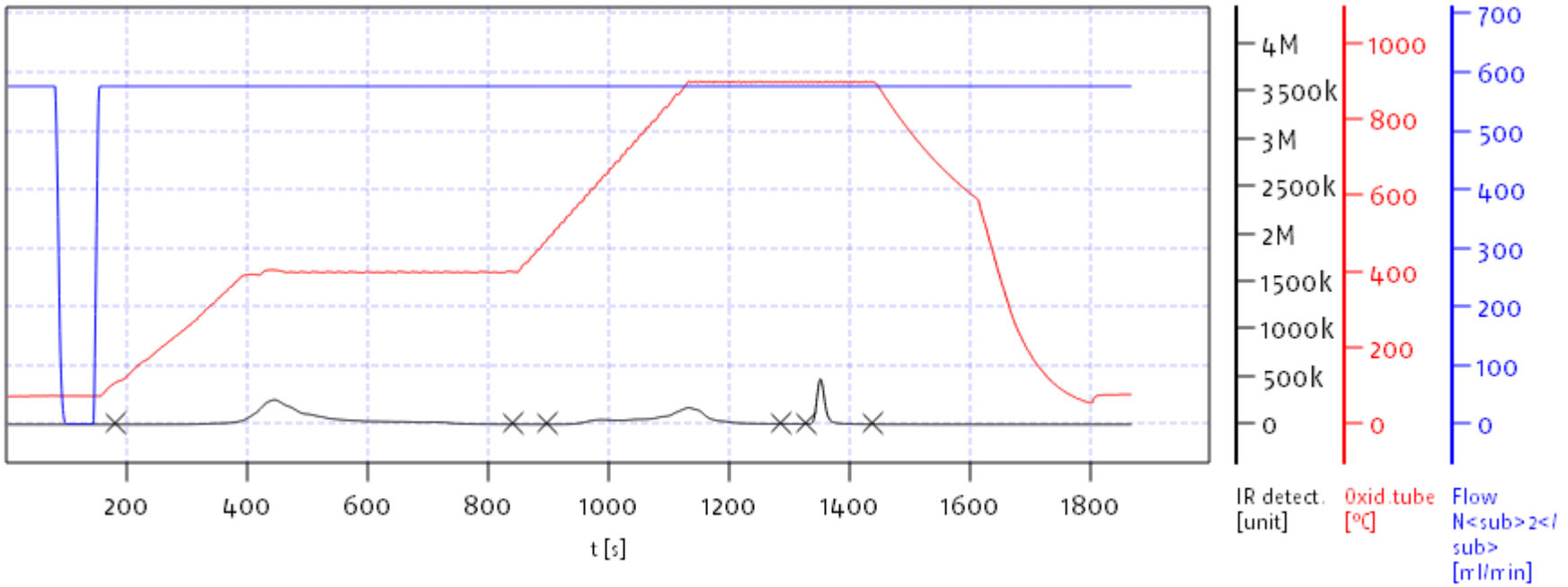
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
191	51	21H0275-05	526.70		1.00	CARBON	8/29/2021 6:21 PM	0.421	0.225	0.645	bl	1 085 710	711 901	286 674	0.9651	1.0000



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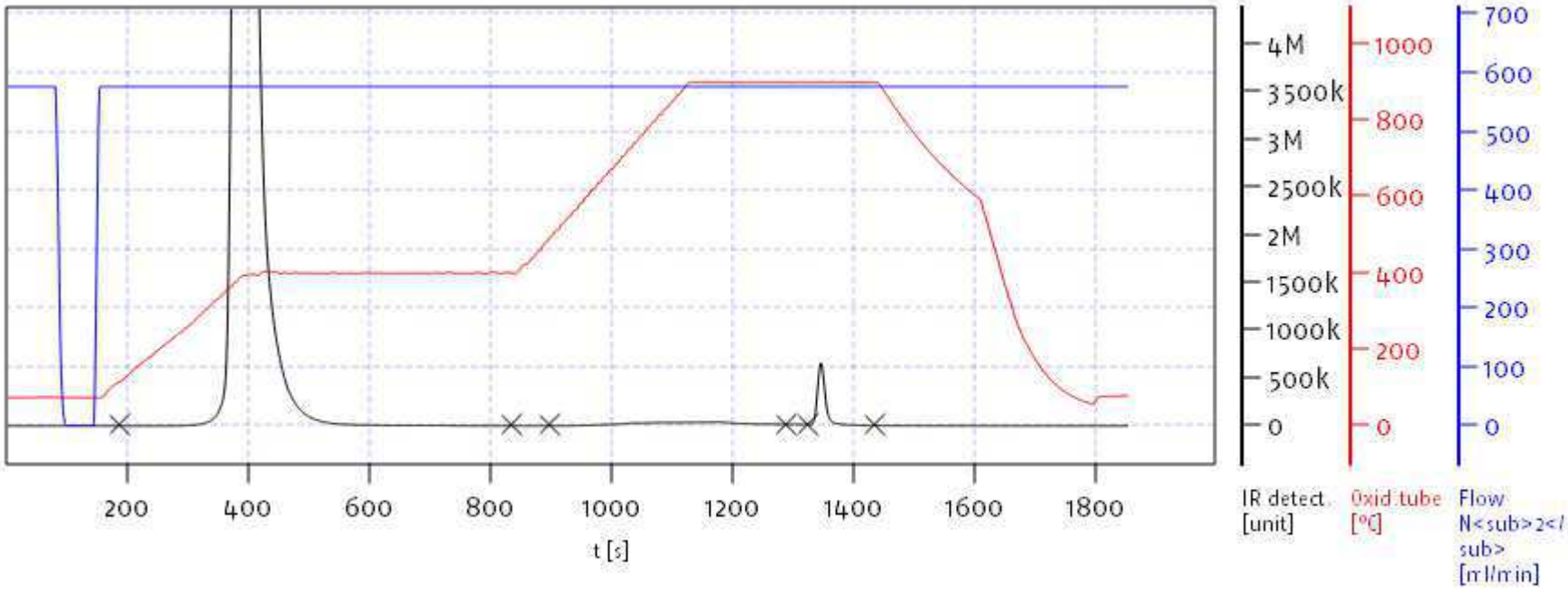
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
192	52	21H0275-06	179.70		1.00	CARBON	8/29/2021 6:52 PM	19.636	0.297	19.934	bl,C1o	21 271 400	328 099	386 832	0.9651	1.0000



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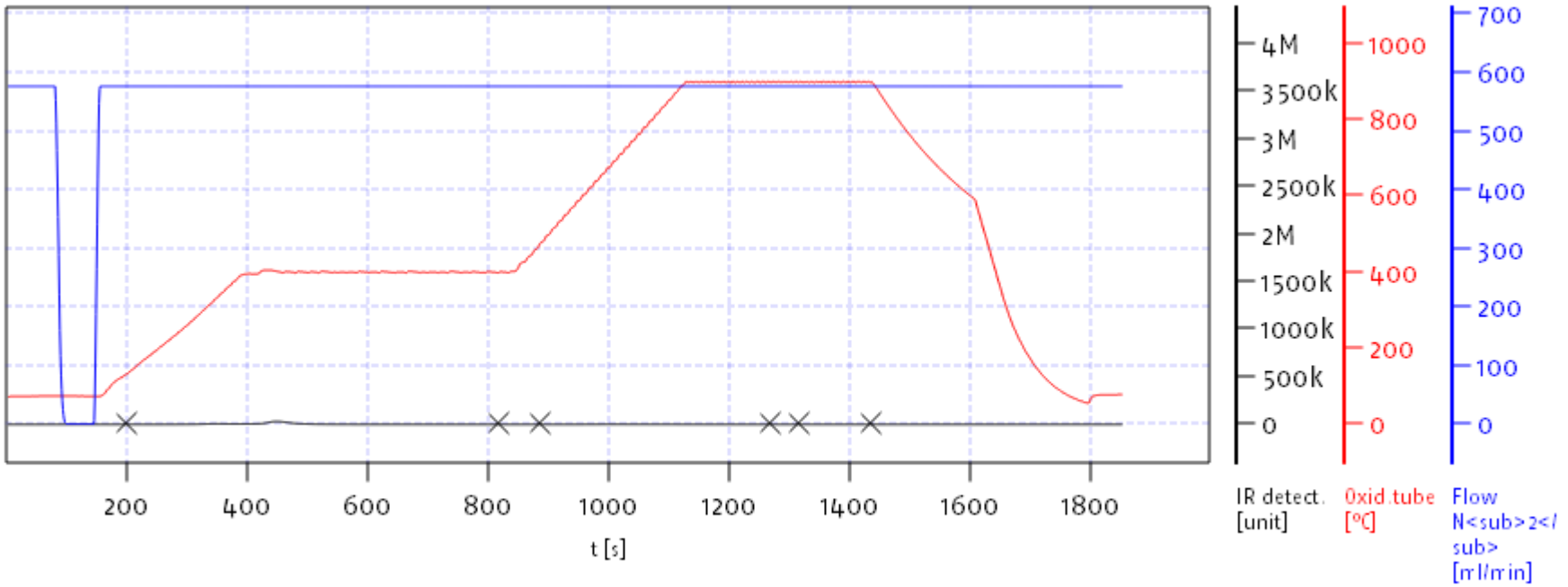
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
193	53	BJH0677-MRL1	538.30		1.00	CARBON	8/29/2021 7:24 PM	0.021	0.000	0.021	bl,C3u,C2u	81 334	6 834	305	0.9651	1.0000



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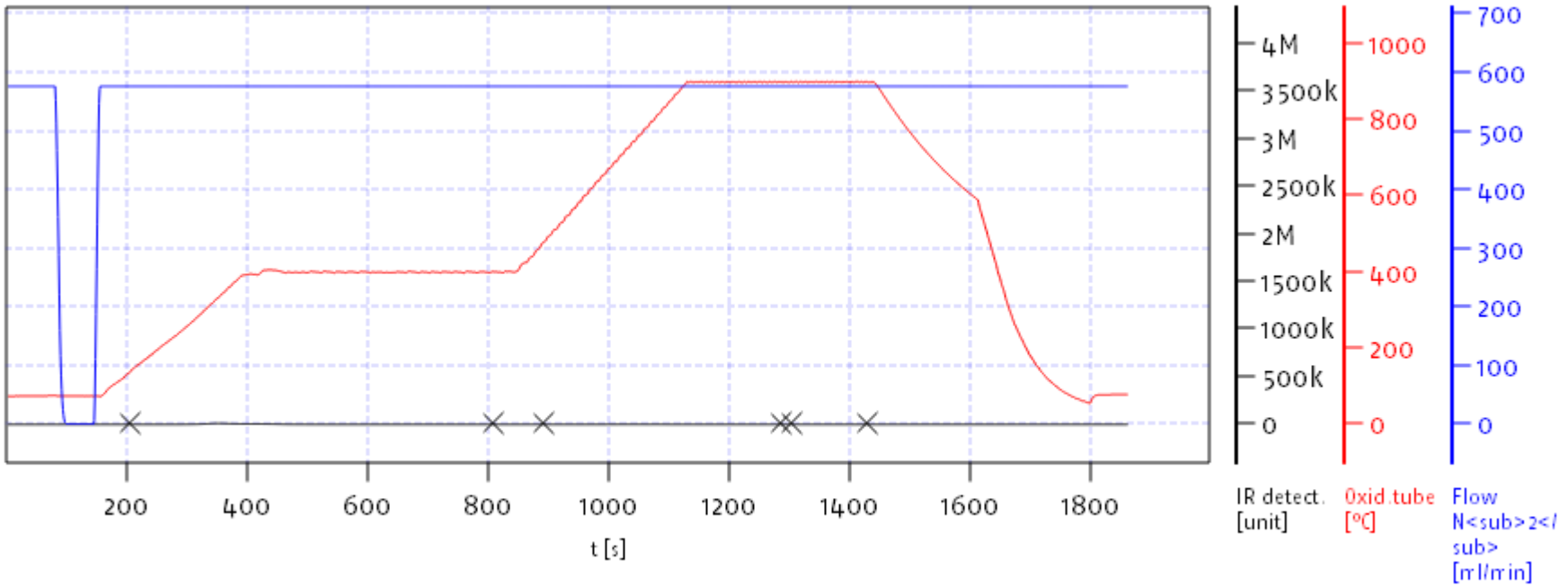
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
194	54	BJH0677-BLK1	537.20		1.00	CARBON	8/29/2021 7:55 PM	0.008	0.000	0.008	bl,C3u,C2u	36 820	4 881	448	0.9651	1.0000



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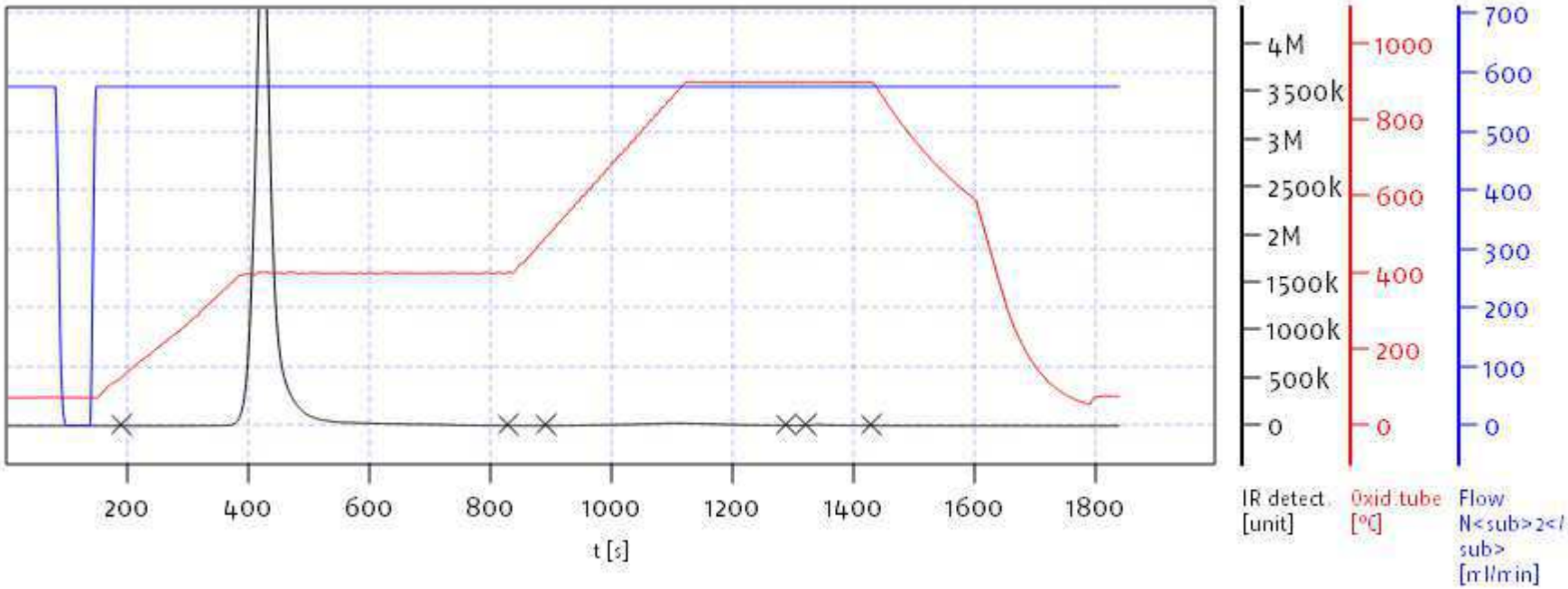
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
195	55	BJH0677-BS1	24.50		1.00	CARBON	8/29/2021 8:26 PM	44.364	1.263	45.627	bl	6 667 020	194 880	24 111	0.9651	1.0000



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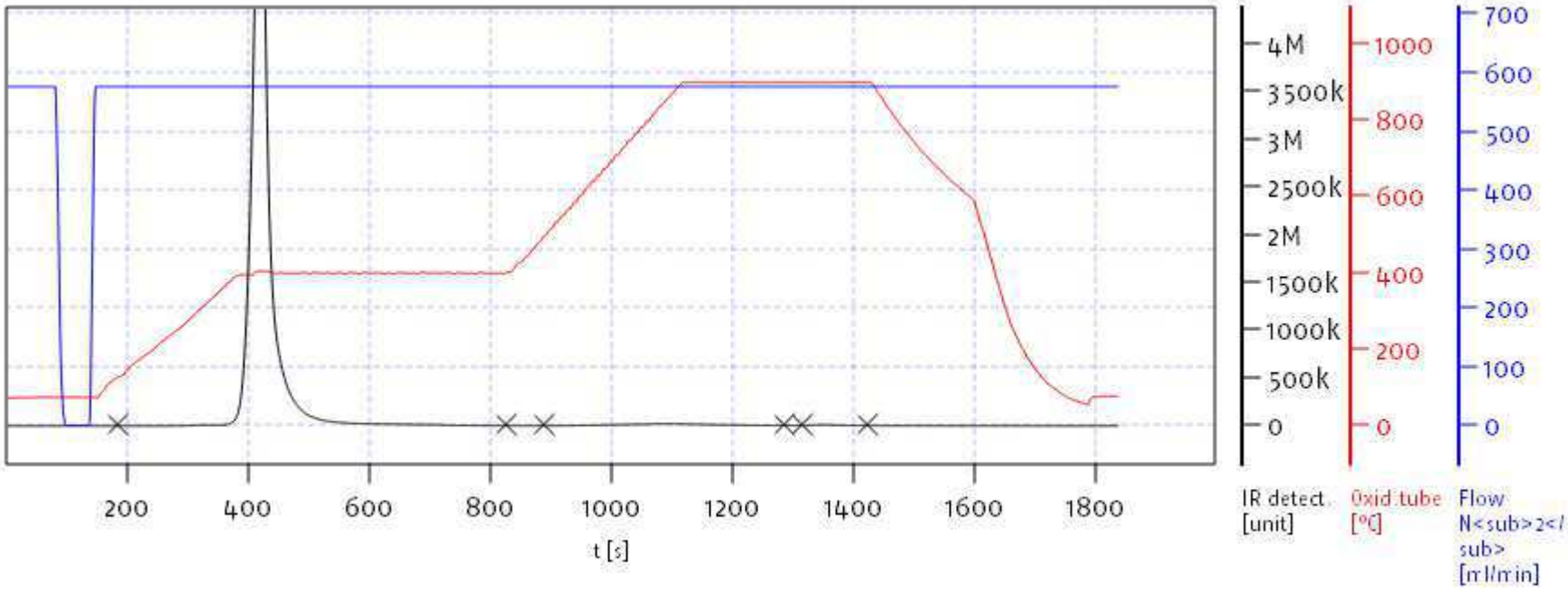
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
196	56	SJH0331-CCVG	28.20		1.00	CARBON	8/29/2021 8:58 PM	45.395	0.880	46.275	bl	7 851 740	158 612	24 729	0.9651	1.0000



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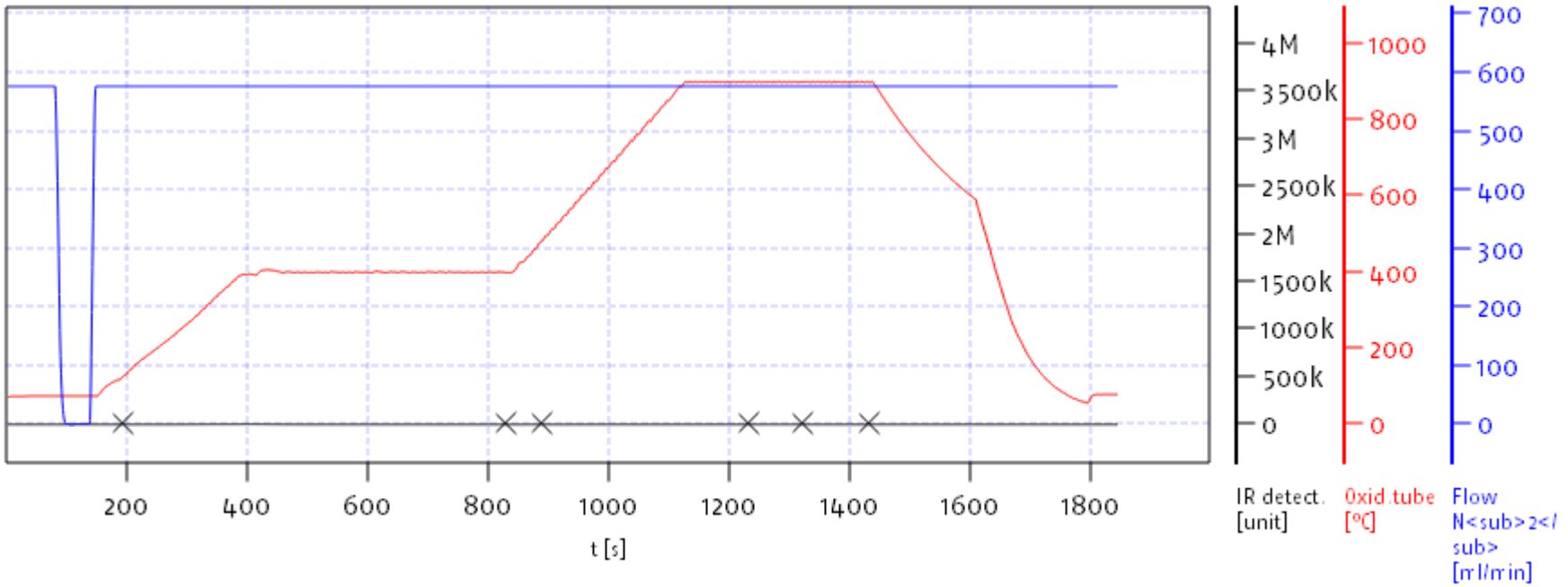
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
197	57	SJH0331-CCBG	515.50		1.00	CARBON	8/29/2021 9:29 PM	0.000	0.000	0.000	bl,C3u,C2u	12 285	1 549	397	0.9651	1.0000



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Balance: BAL3
Analyst: BF

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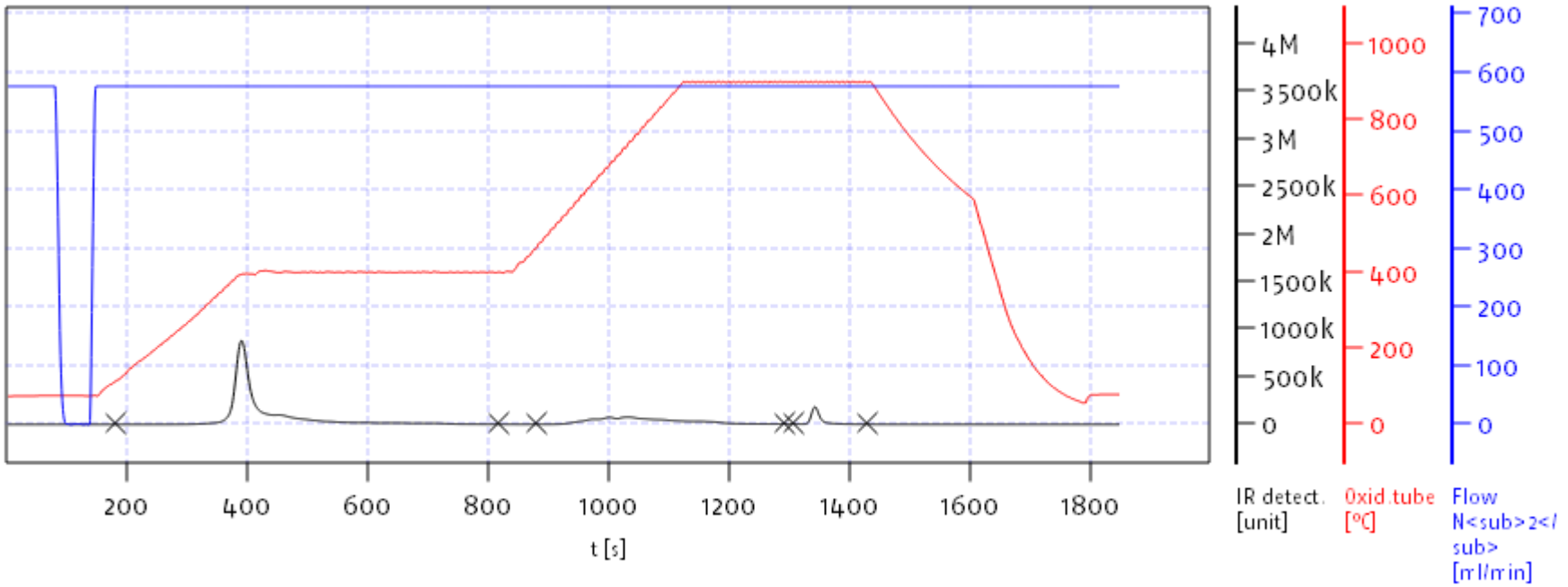
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
198	58	21H0224-02	321.90		1.00	CARBON	8/29/2021 10:00 PM	0.739	0.246	0.985	bl	1 357 010	480 652	122 297	0.9651	1.0000



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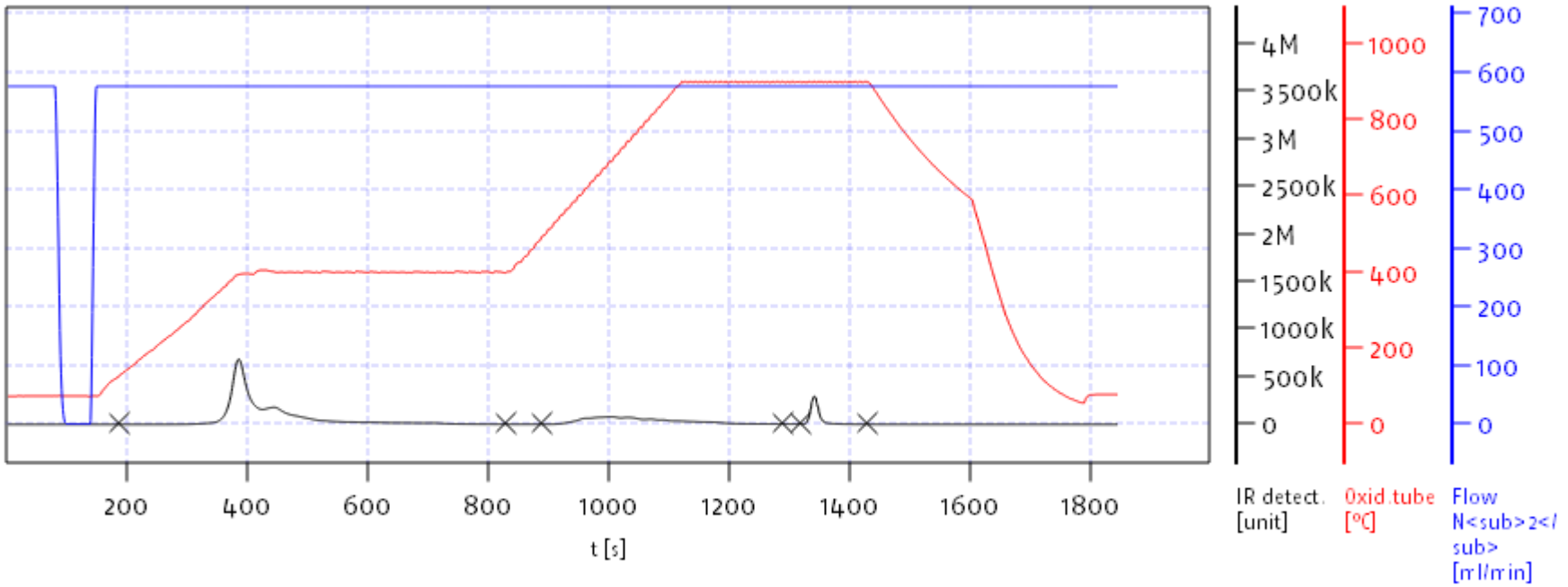
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
199	59	BJH0677-DUP1	331.90		1.00	CARBON	8/29/2021 10:31 PM	0.791	0.254	1.045	bl	1 448 930	511 750	178 206	0.9651	1.0000



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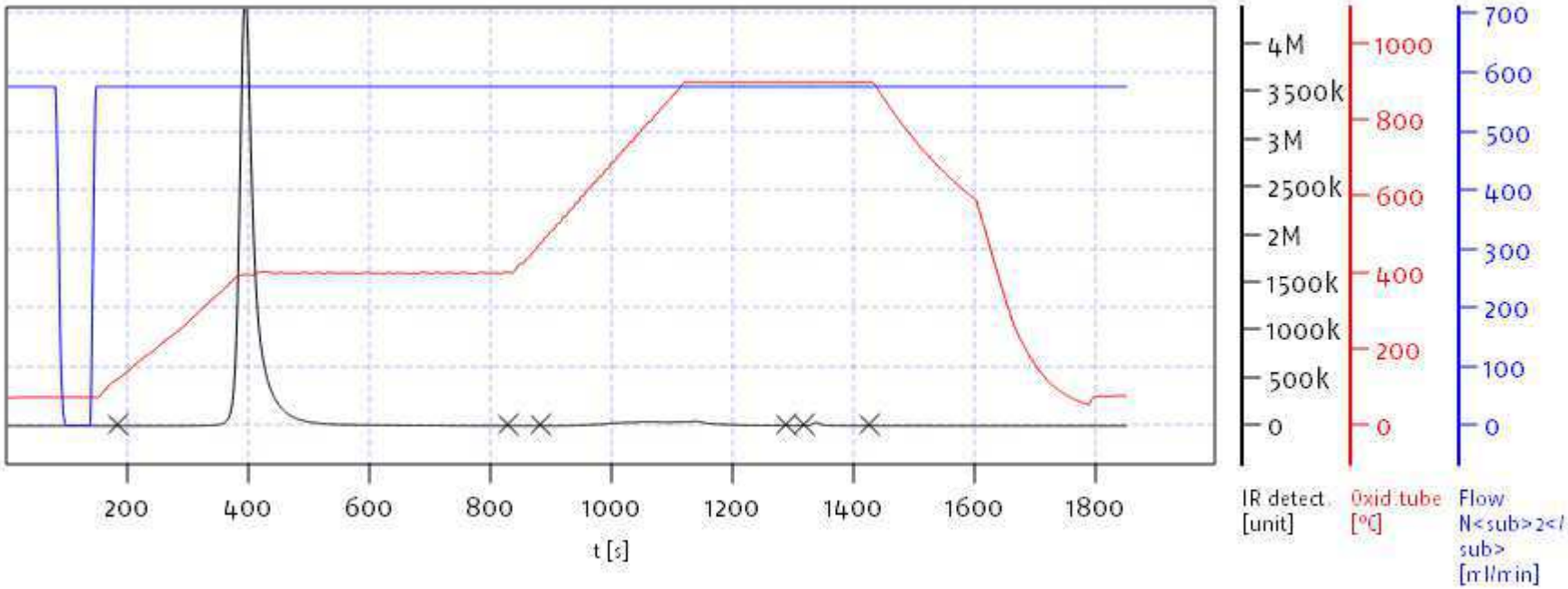
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
200	60	BJH0677-MS1	268.40	0.0122	1.00	CARBON	8/29/2021 11:03 PM	3.006	0.189	3.195	bl	4 945 240	311 892	26 776	0.9651	1.0000



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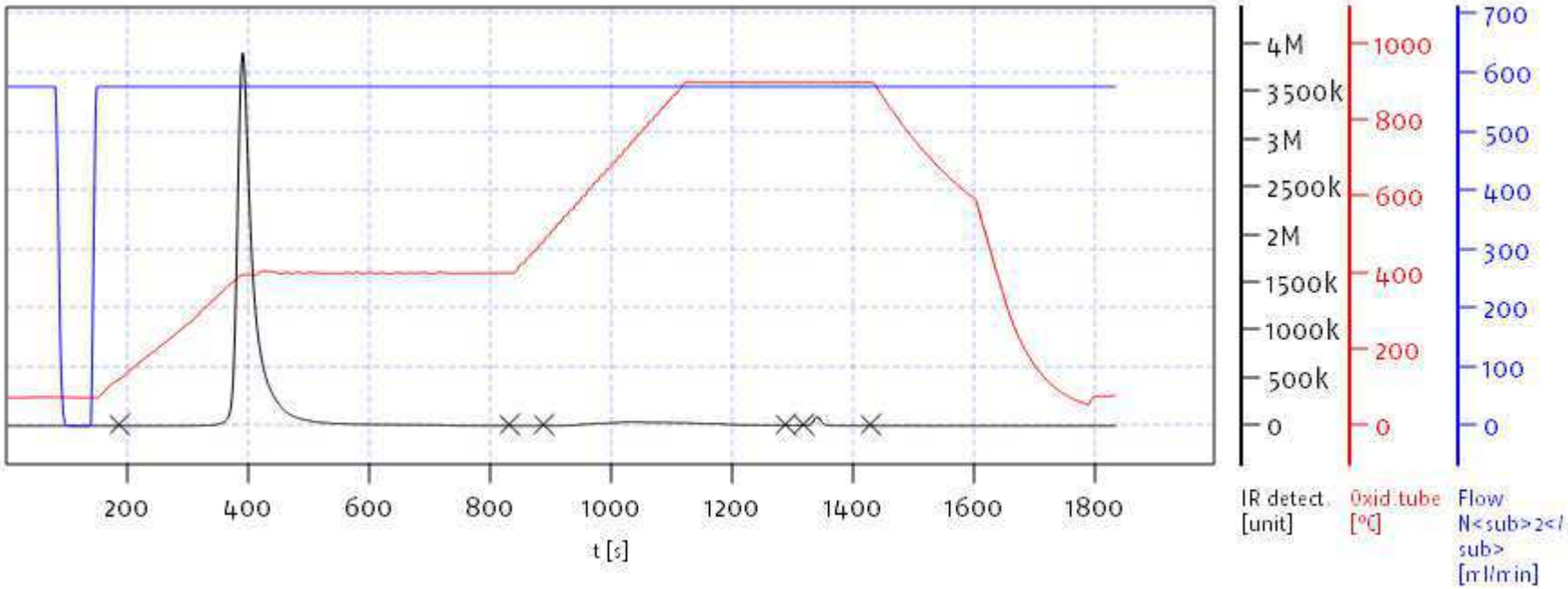
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
201	61	BJH0677-MSD1	258.10	0.0119	1.00	CARBON	8/29/2021 11:34 PM	2.949	0.195	3.144	bl	4 632 900	309 617	58 939	0.9651	1.0000



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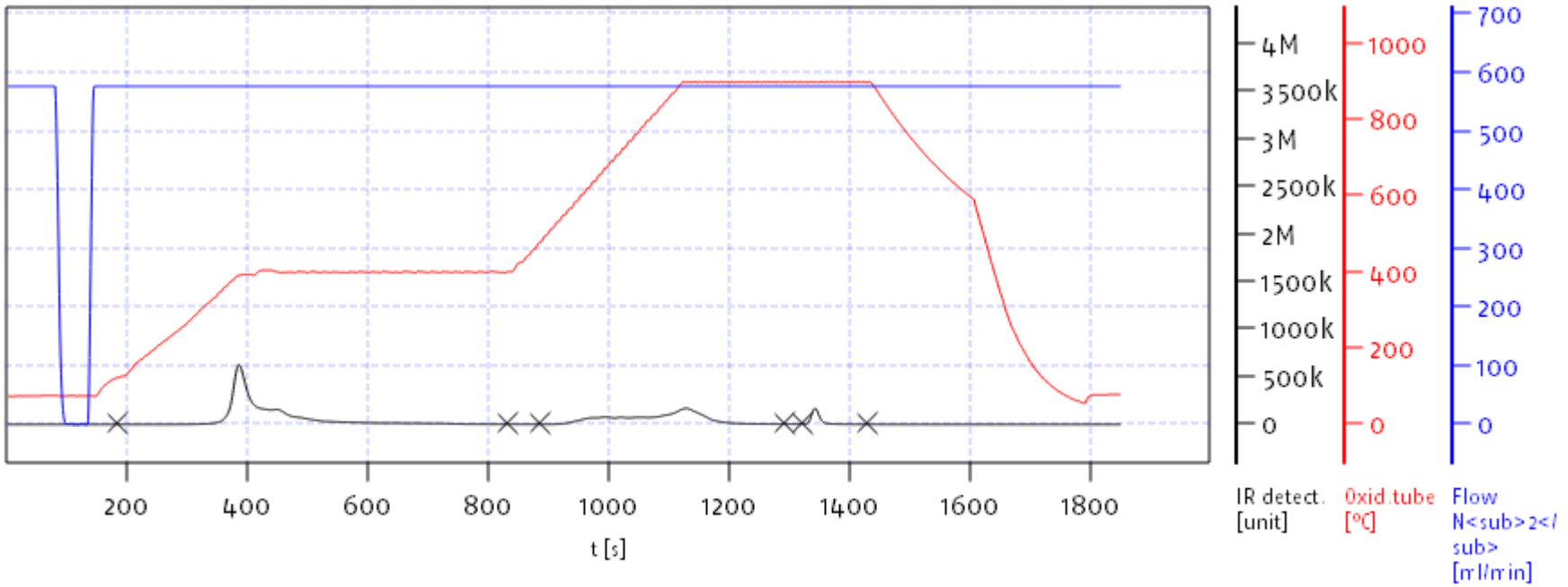
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
202	62	21H0224-03	331.30		1.00	CARBON	8/30/2021 12:05 AM	0.674	0.413	1.087	bl	1 287 520	821 348	102 649	0.9651	1.0000



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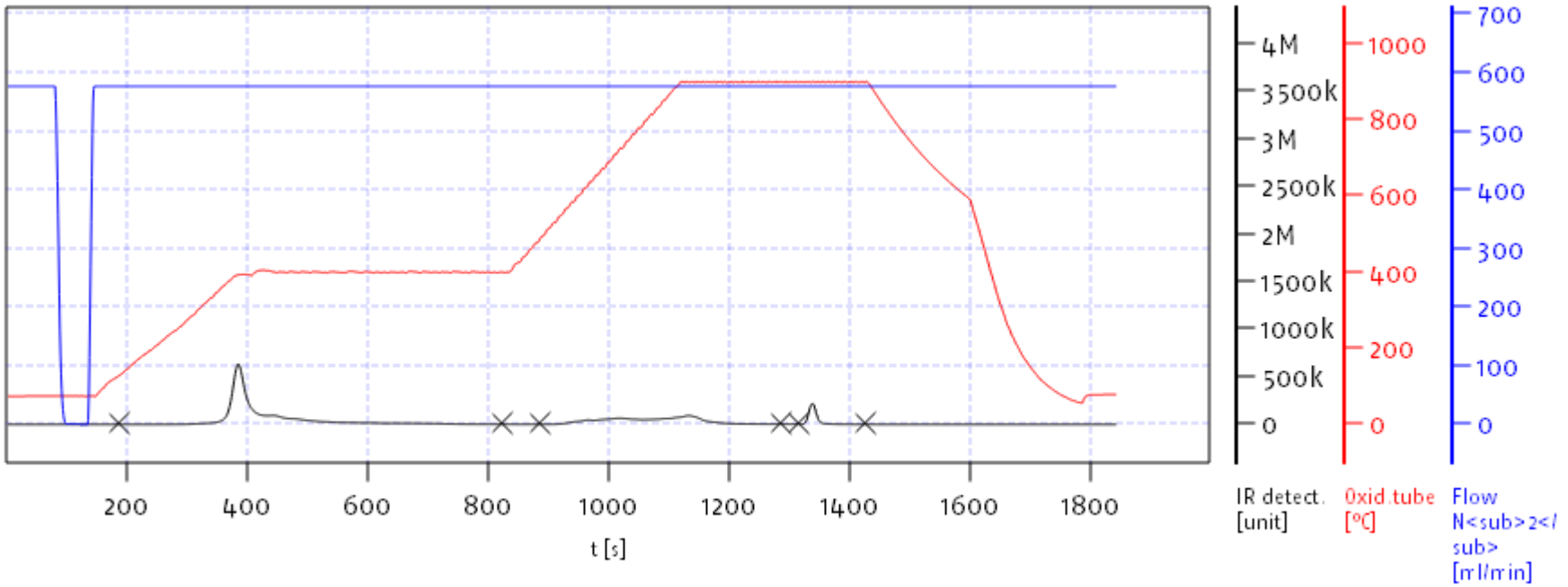
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
203	63	21H0224-04	216.30		1.00	CARBON	8/30/2021 12:36 AM	0.883	0.409	1.292	bl	1 064 670	535 045	126 428	0.9651	1.0000



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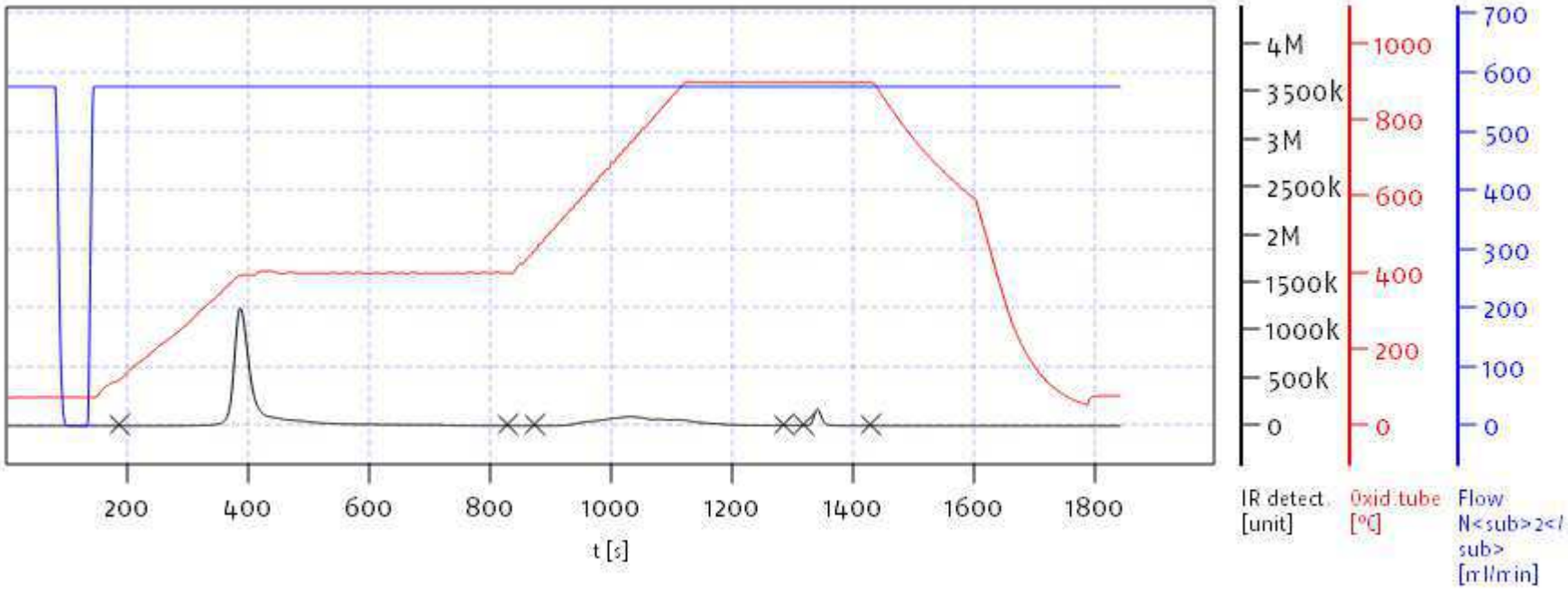
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
204	64	21H0224-05	325.20		1.00	CARBON	8/30/2021 1:07 AM	0.894	0.294	1.188	bl	1 702 020	577 355	102 413	0.9651	1.0000



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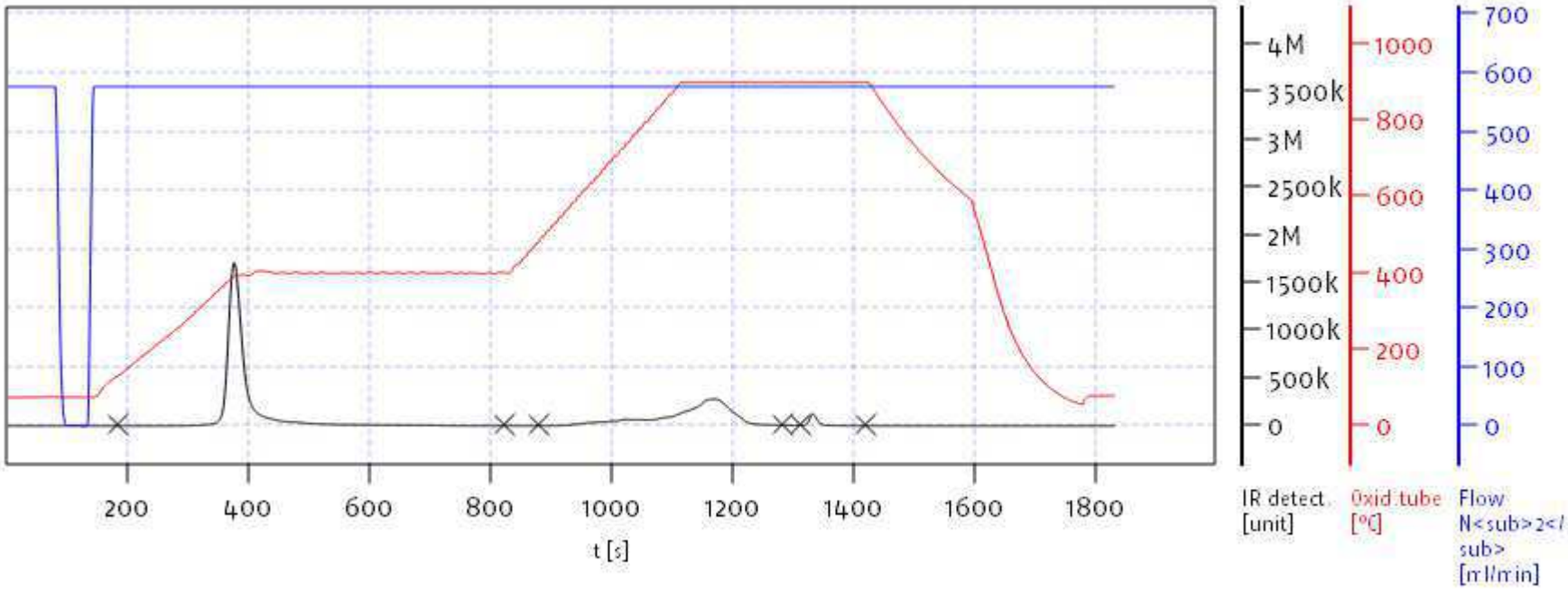
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
205	65	21H0224-06	343.50		1.00	CARBON	8/30/2021 1:38 AM	0.978	0.587	1.565	bl	2 005 360	1 205 480	77 385	0.9651	1.0000



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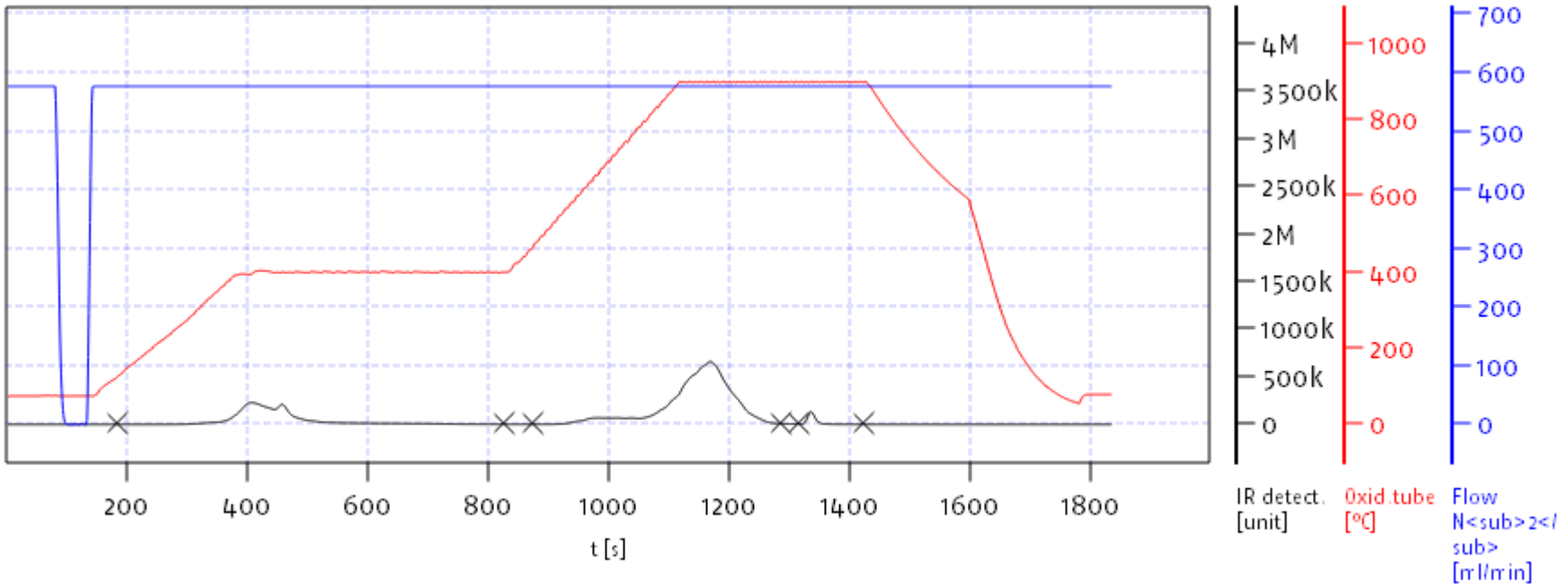
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
206	66	21H0224-07	345.80		1.00	CARBON	8/30/2021 2:09 AM	0.456	1.305	1.761	bl	909 599	2 684 350	78 594	0.9651	1.0000



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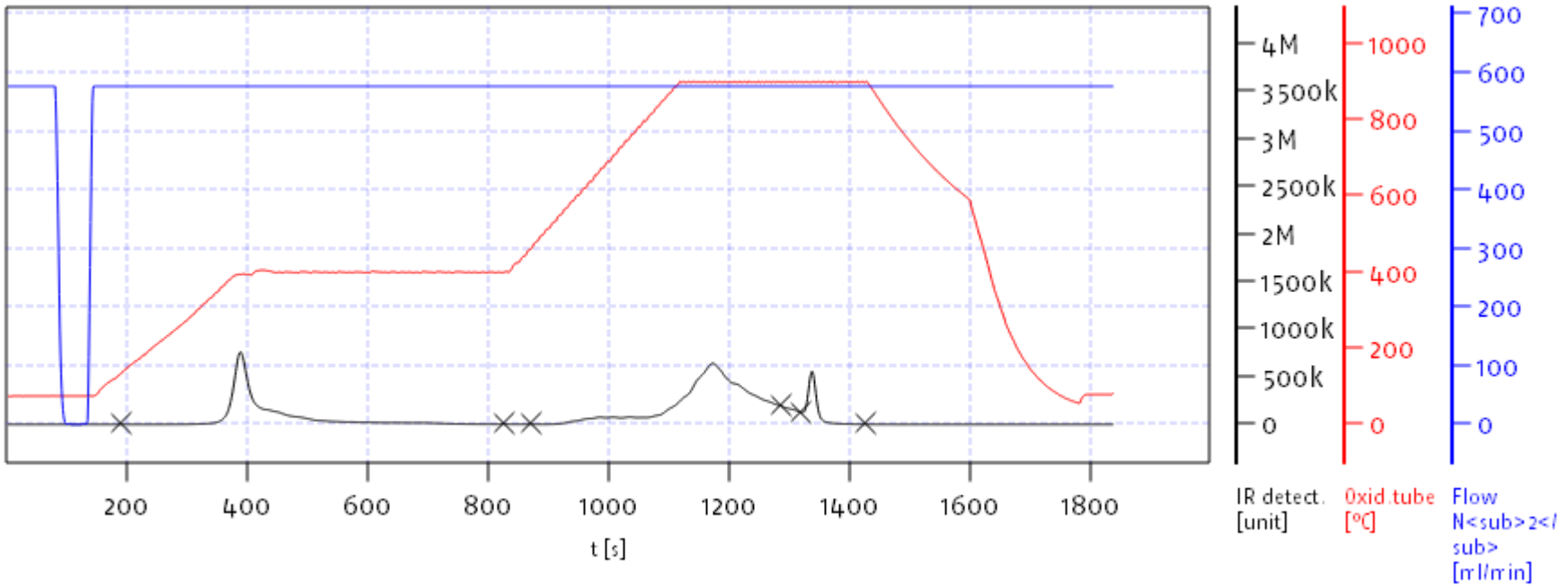
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
207	67	21H0224-08	336.20		1.00	CARBON	8/30/2021 2:40 AM	0.880	1.549	2.429	bl	1 447 370	3 095 250	376 840	0.9651	1.0000



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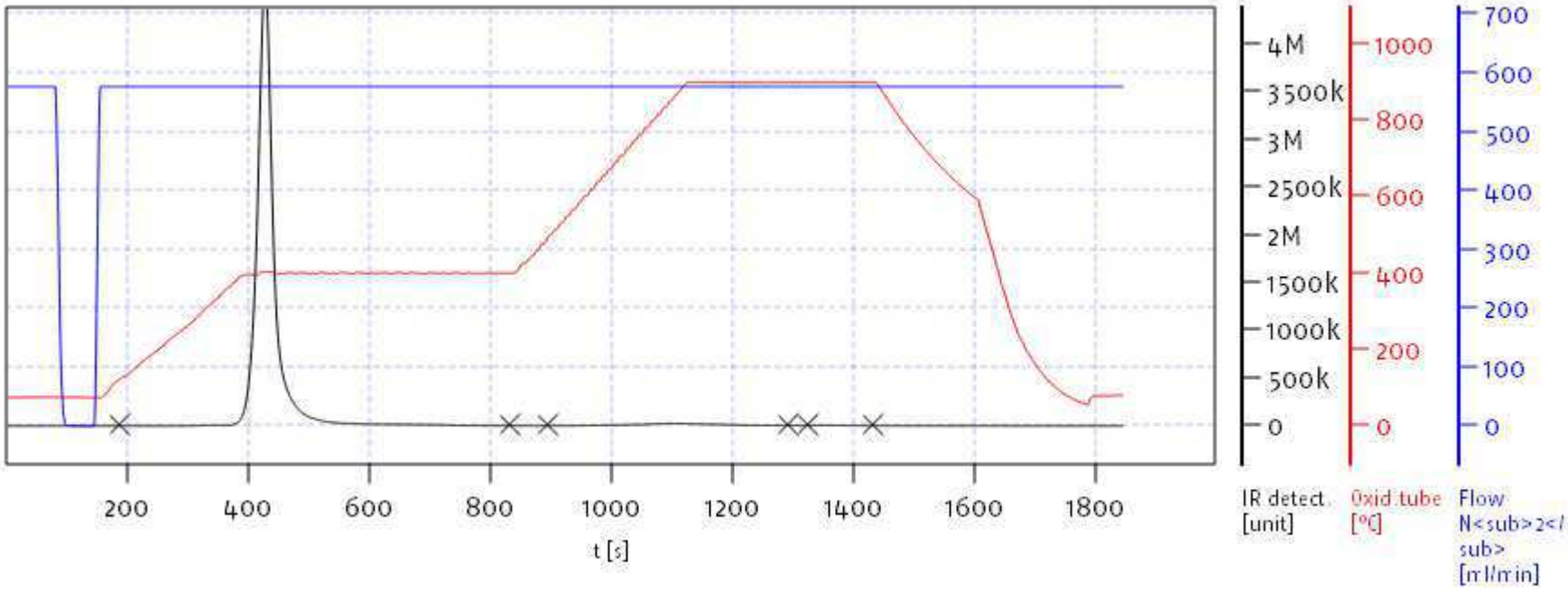
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
208	68	SJH0331-CCVH	20.30		1.00	CARBON	8/30/2021 3:12 AM	44.545	1.246	45.790	bl	5 554 990	161 382	15 856	0.9651	1.0000



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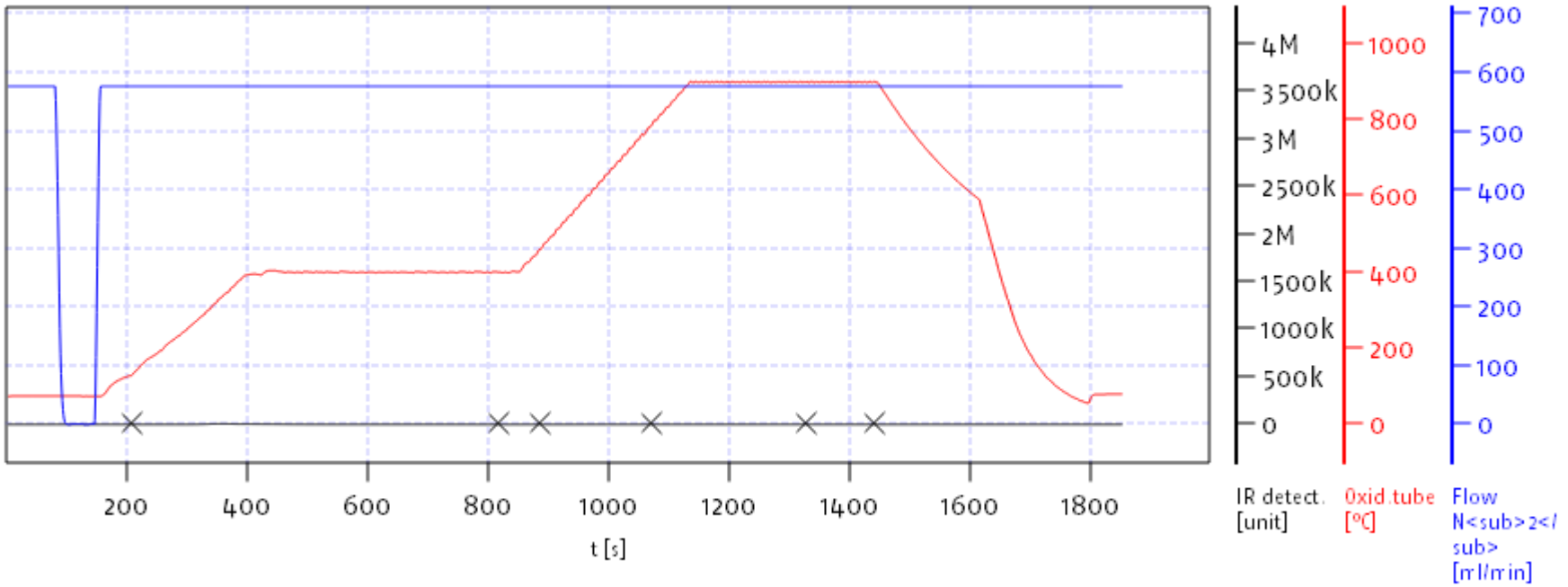
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
209	69	SJH0331-CCBH	513.70		1.00	CARBON	8/30/2021 3:43 AM	0.003	0.000	0.003	bl,C3u,C2u	22 555	212	386	0.9651	1.0000



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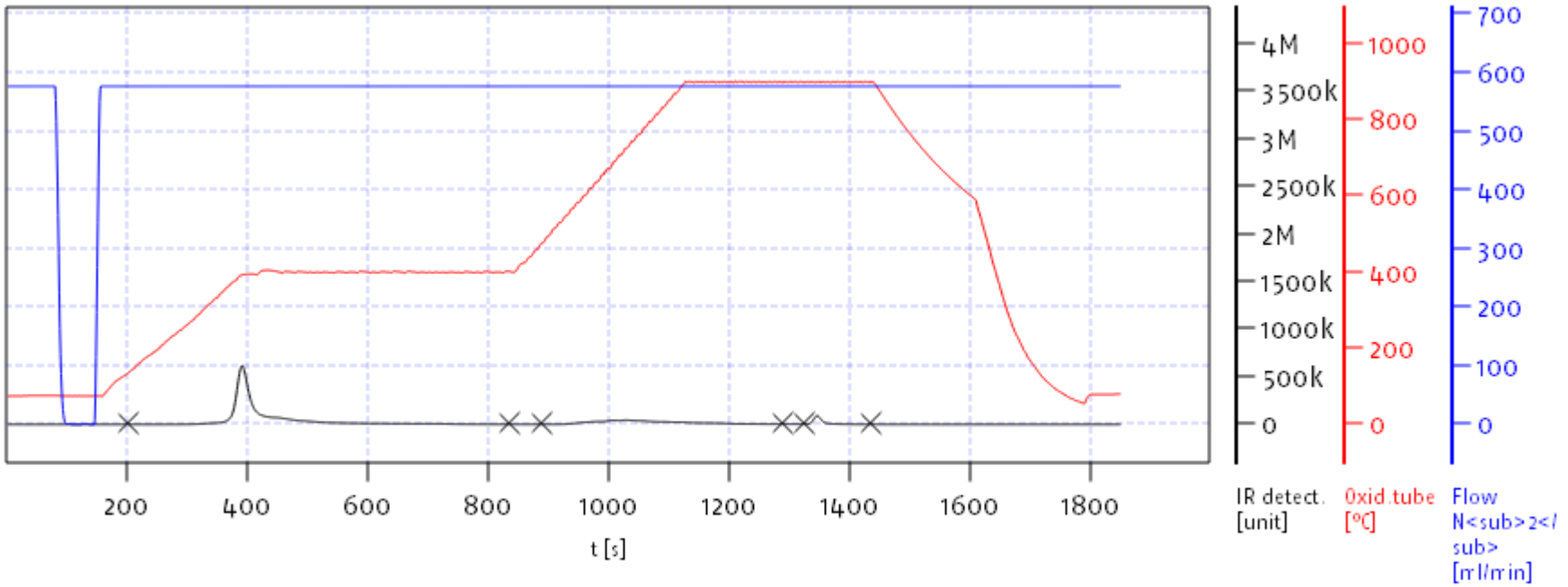
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
210	70	21H0224-09	213.30		1.00	CARBON	8/30/2021 4:14 AM	0.729	0.211	0.940	bl	915 310	278 071	60 869	0.9651	1.0000



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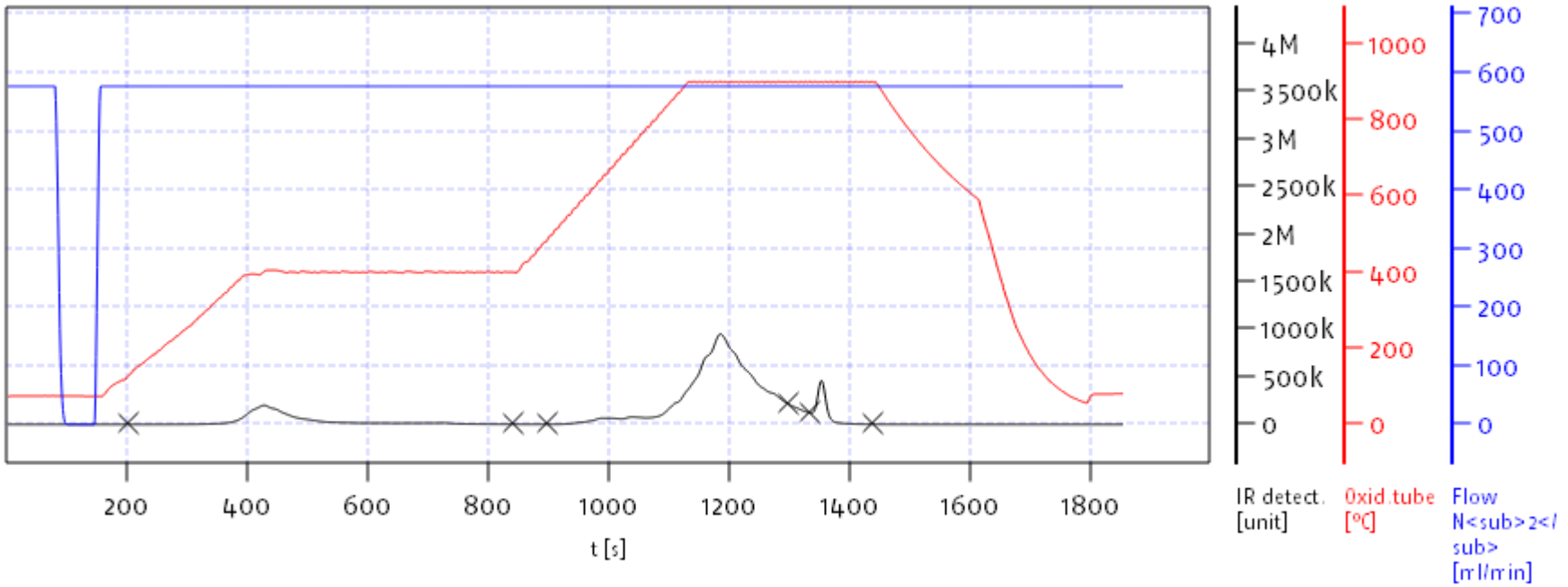
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
211	71	21H0234-01	219.50		1.00	CARBON	8/30/2021 4:46 AM	0.794	3.228	4.022	bl	744 062	4 207 200	336 945	0.9651	1.0000



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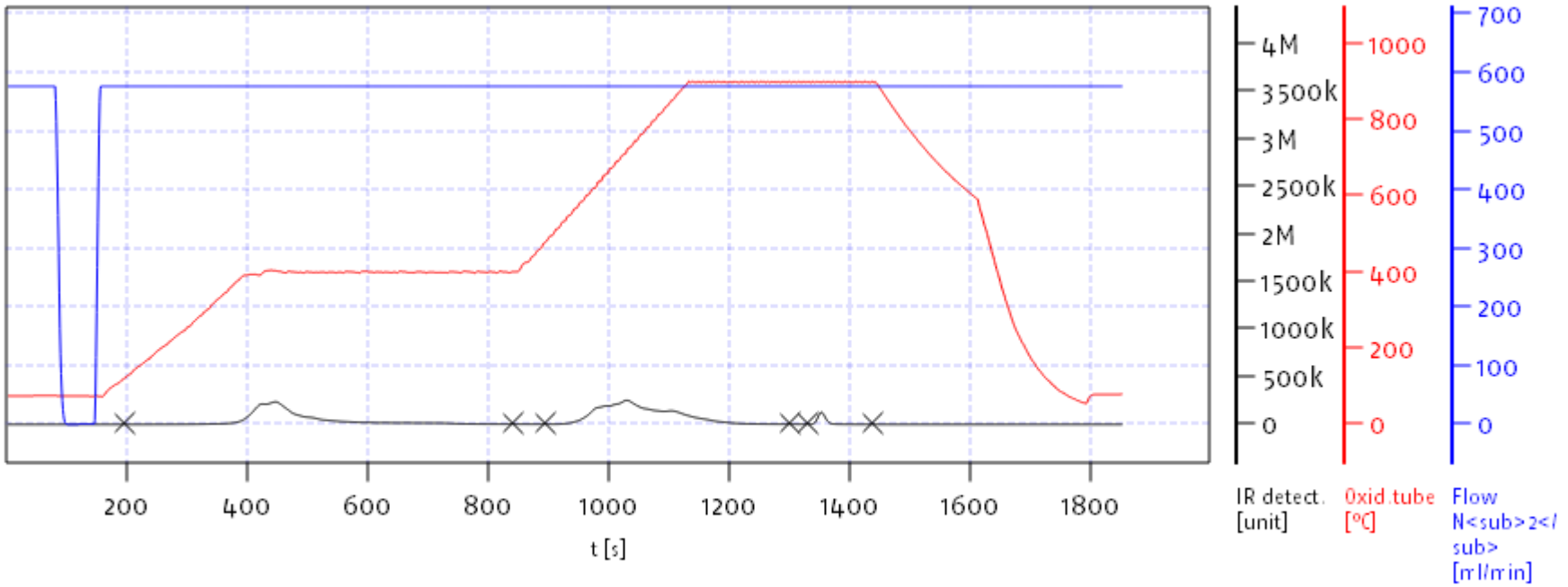
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
212	72	21H0234-04	517.90		1.00	CARBON	8/30/2021 5:17 AM	0.303	0.412	0.715	bl	907 251	1 275 550	76 254	0.9651	1.0000



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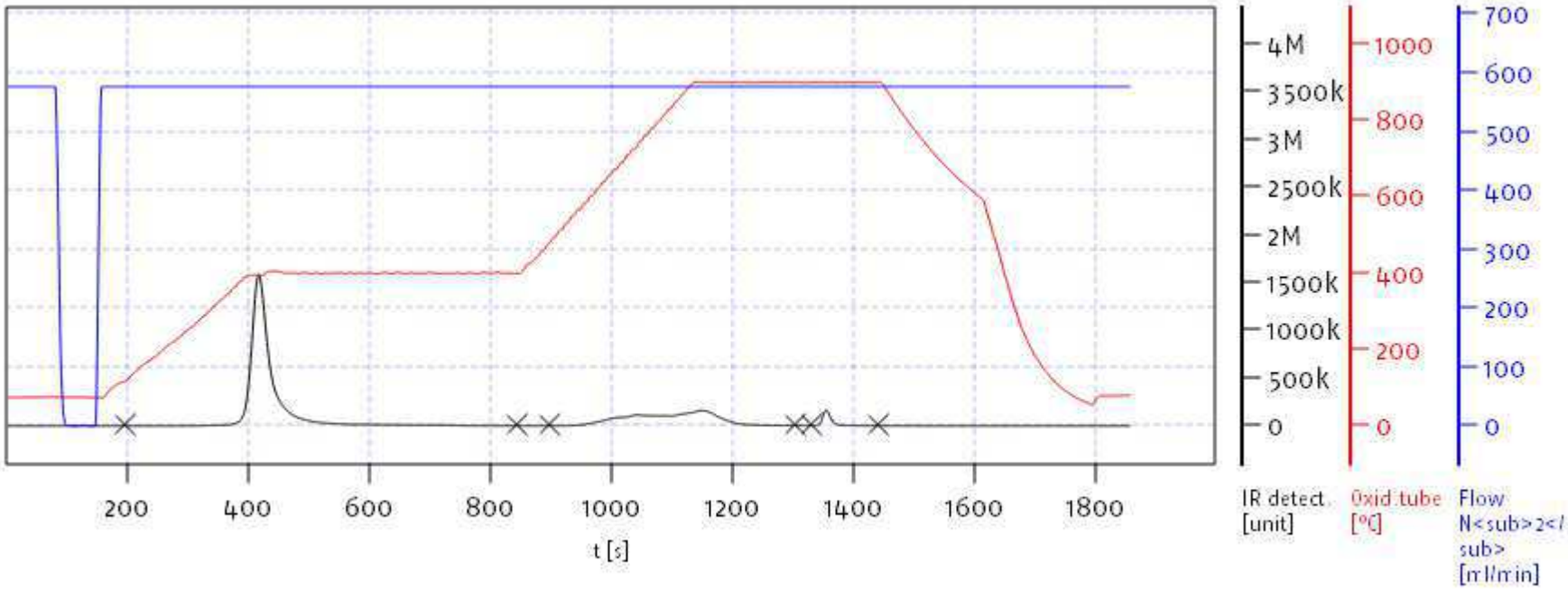
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
213	73	21H0234-06	373.10		1.00	CARBON	8/30/2021 5:49 AM	1.009	0.420	1.429	bl	2 225 290	939 624	104 534	0.9651	1.0000



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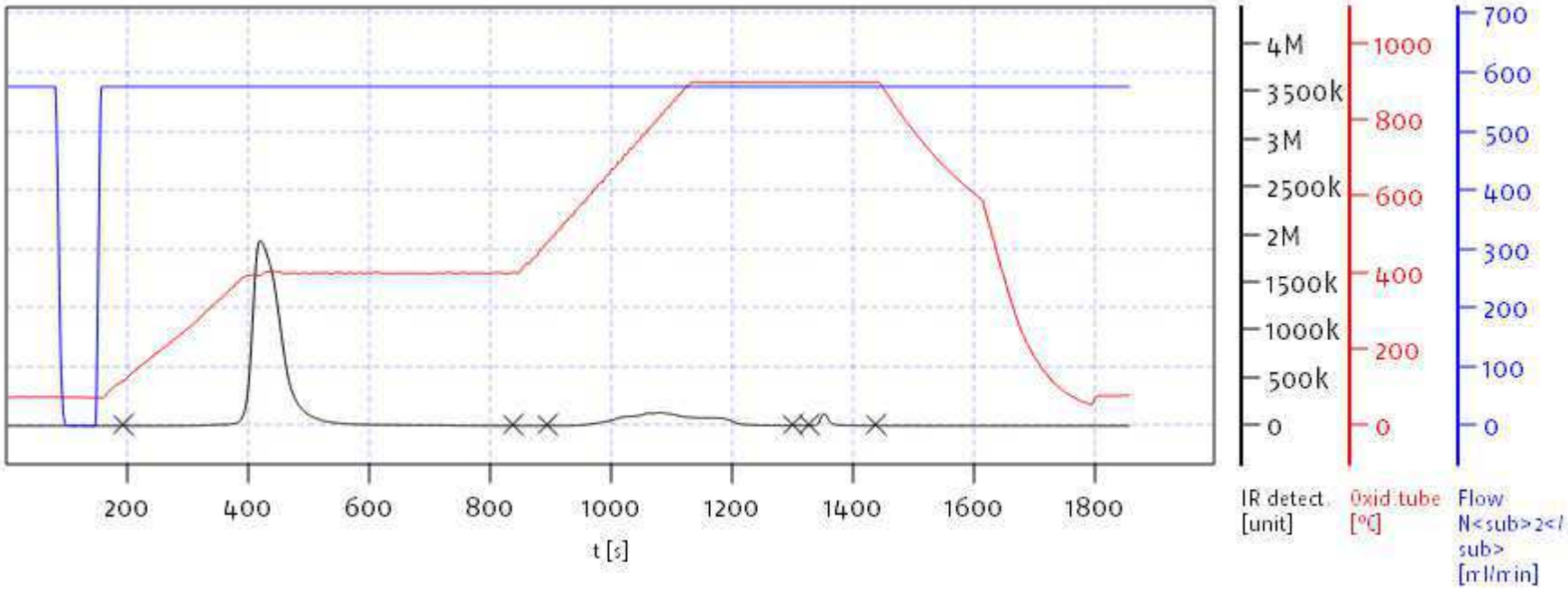
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
214	74	21H0234-09	556.70		1.00	CARBON	8/30/2021 6:20 AM	1.189	0.252	1.441	bl	3 997 190	841 290	83 898	0.9651	1.0000



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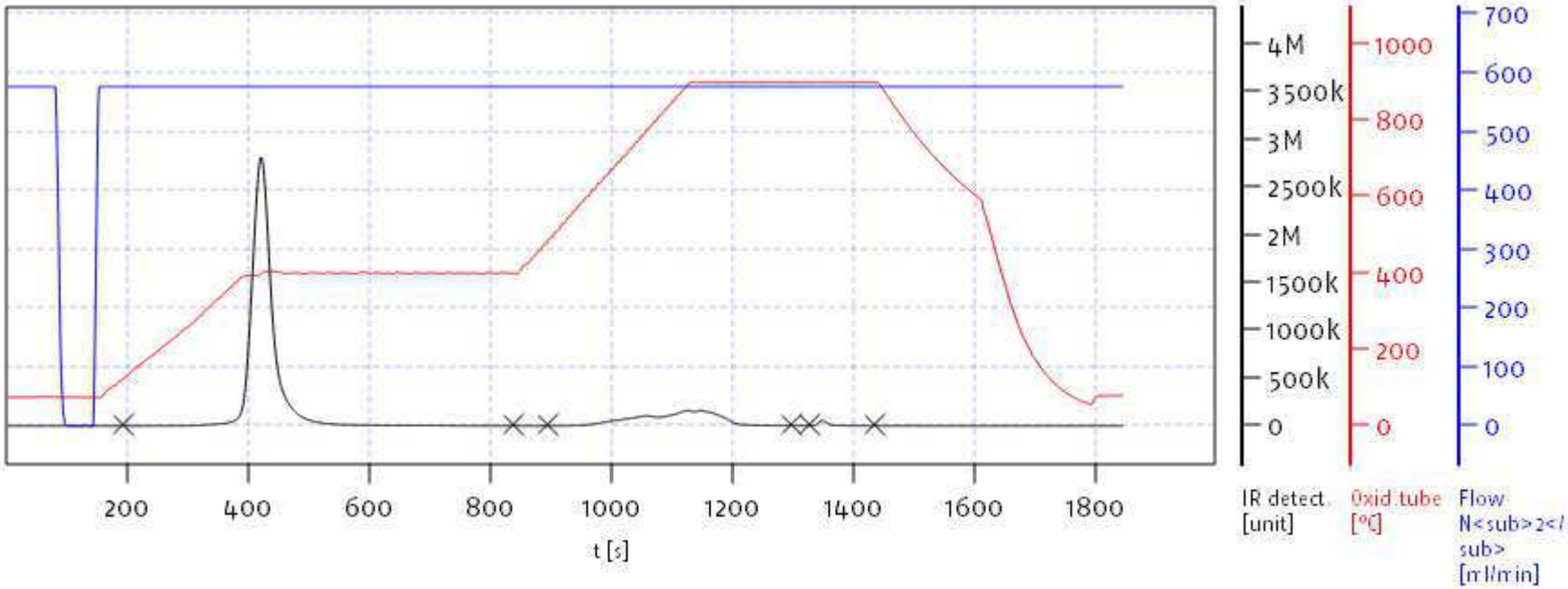
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
215	75	21H0281-01	468.50		1.00	CARBON	8/30/2021 6:51 AM	1.433	0.317	1.750	bl	4 098 100	890 549	42 629	0.9651	1.0000



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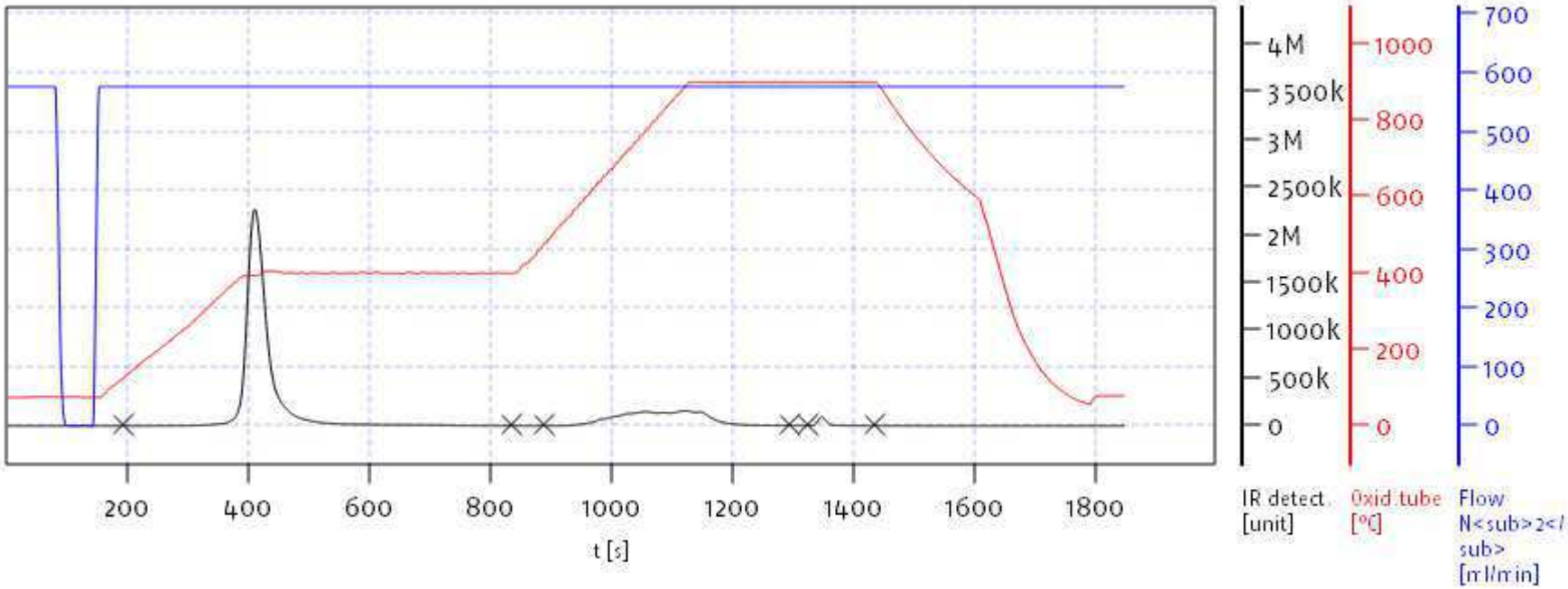
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
216	76	BJH0677-DUP2	454.40		1.00	CARBON	8/30/2021 7:22 AM	1.230	0.373	1.603	bl	3 387 130	1 014 720	63 796	0.9651	1.0000



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Access: soliTOC superuser

Date: Tue Aug 31 14:32:59 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
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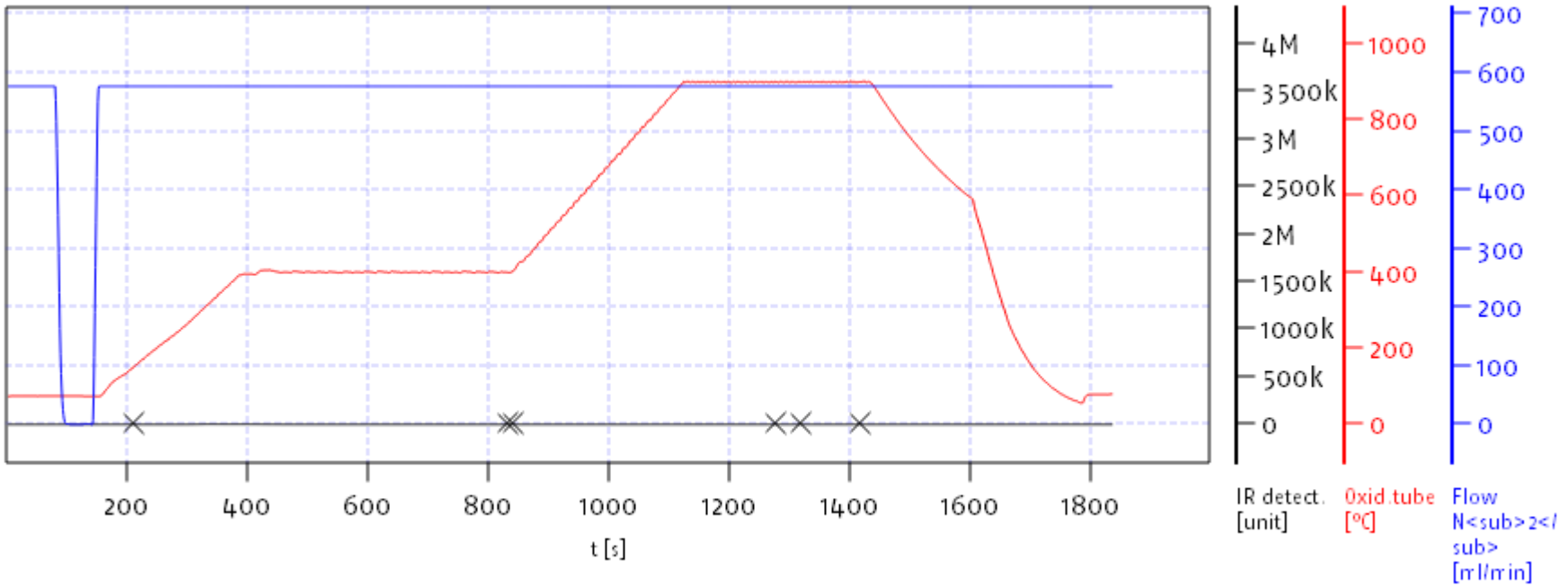
Document: 082521BFb from: 8/31/2021 10:17 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
217	77	BLANK	1.00		1.00	CARBON	8/30/2021 7:53 AM	0.000	0.000	0.000	bl	11 607	1 004	451	0.9651	1.0000



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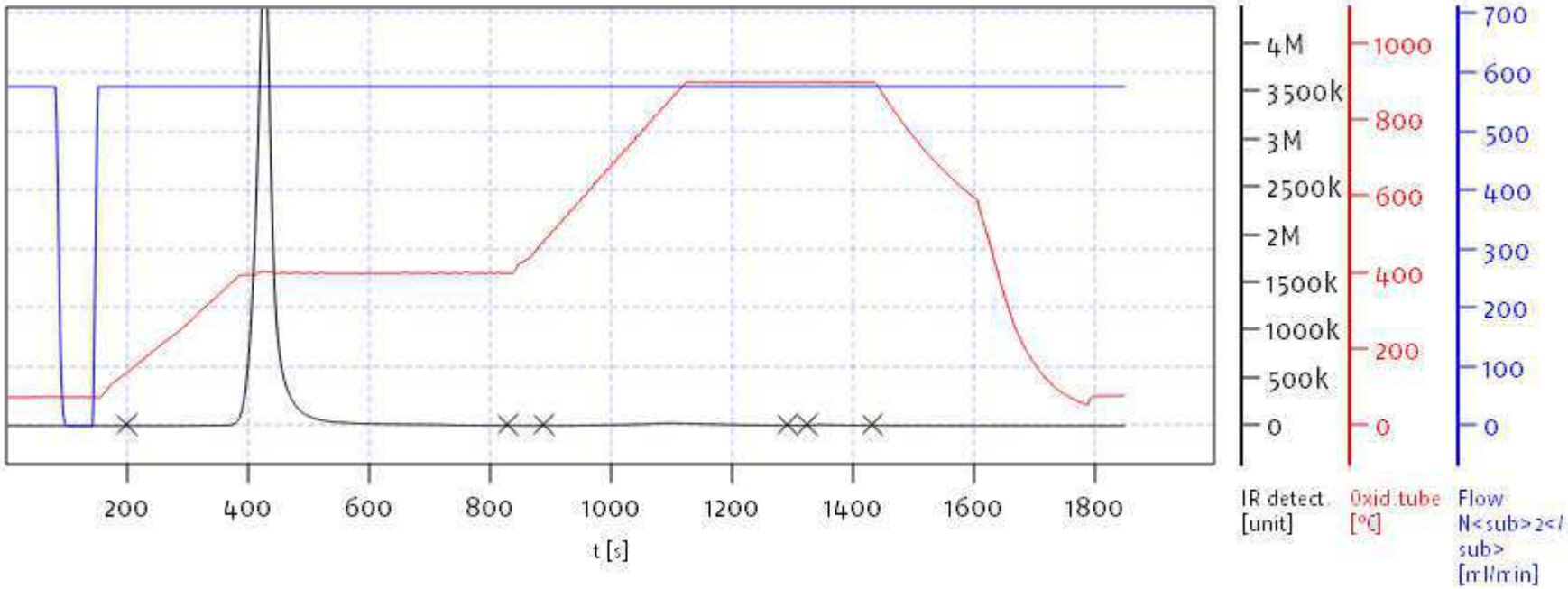
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
218	78	Dfactor	22.70		1.00	CARBON	8/30/2021 8:25 AM	44.555	1.284	45.839	bl	6 054 780	184 262	26 404	0.9886	1.0000



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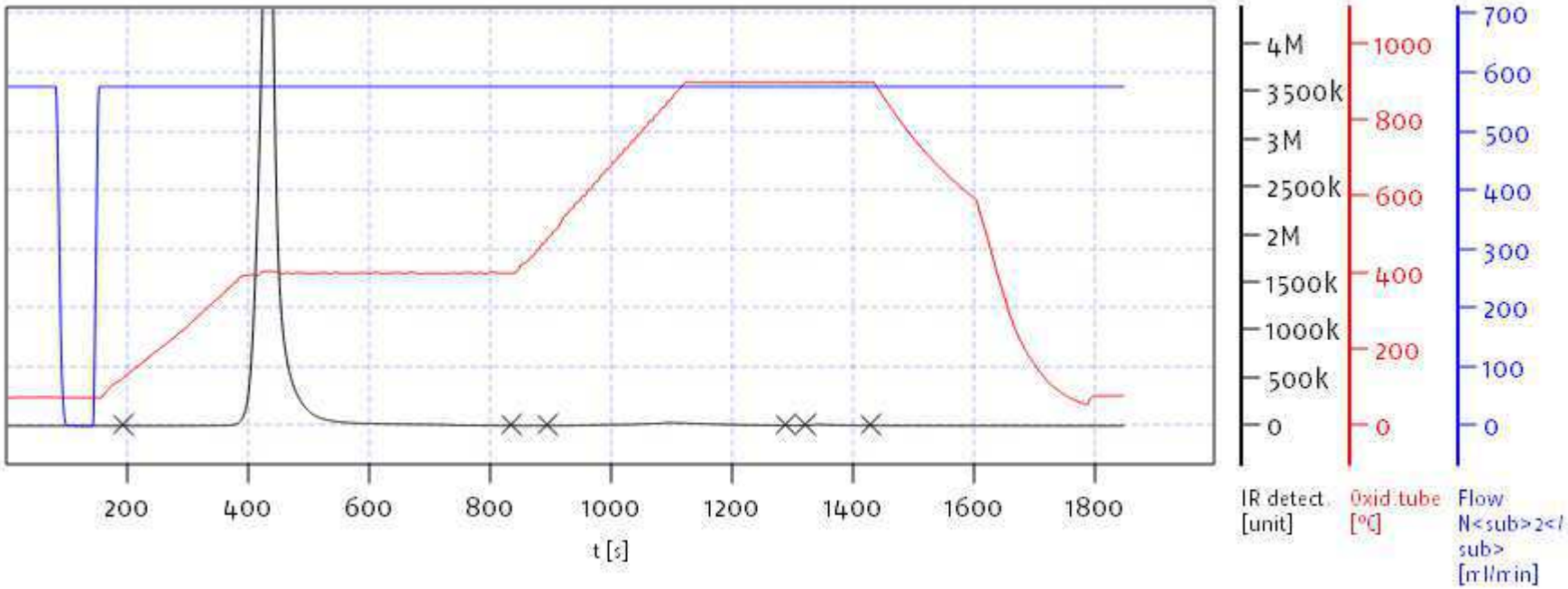
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
219	79	Dfactor	28.40		1.00	CARBON	8/30/2021 8:56 AM	44.533	1.142	45.676	bl	7 906 780	203 751	26 438	0.9467	1.0000



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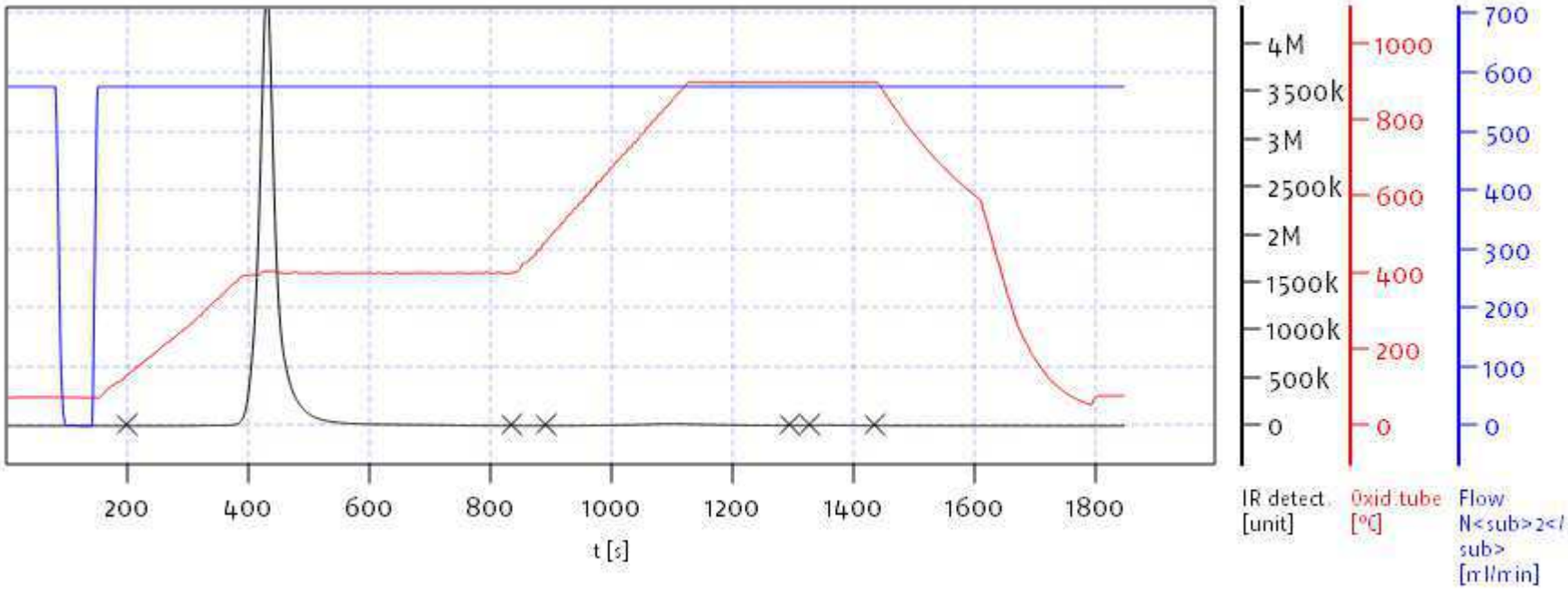
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
220	80	SJH0331-CCVI	21.40		1.00	CARBON	8/30/2021 9:27 AM	44.014	0.984	44.998	bl	5 769 520	136 407	17 400	0.9676	1.0000



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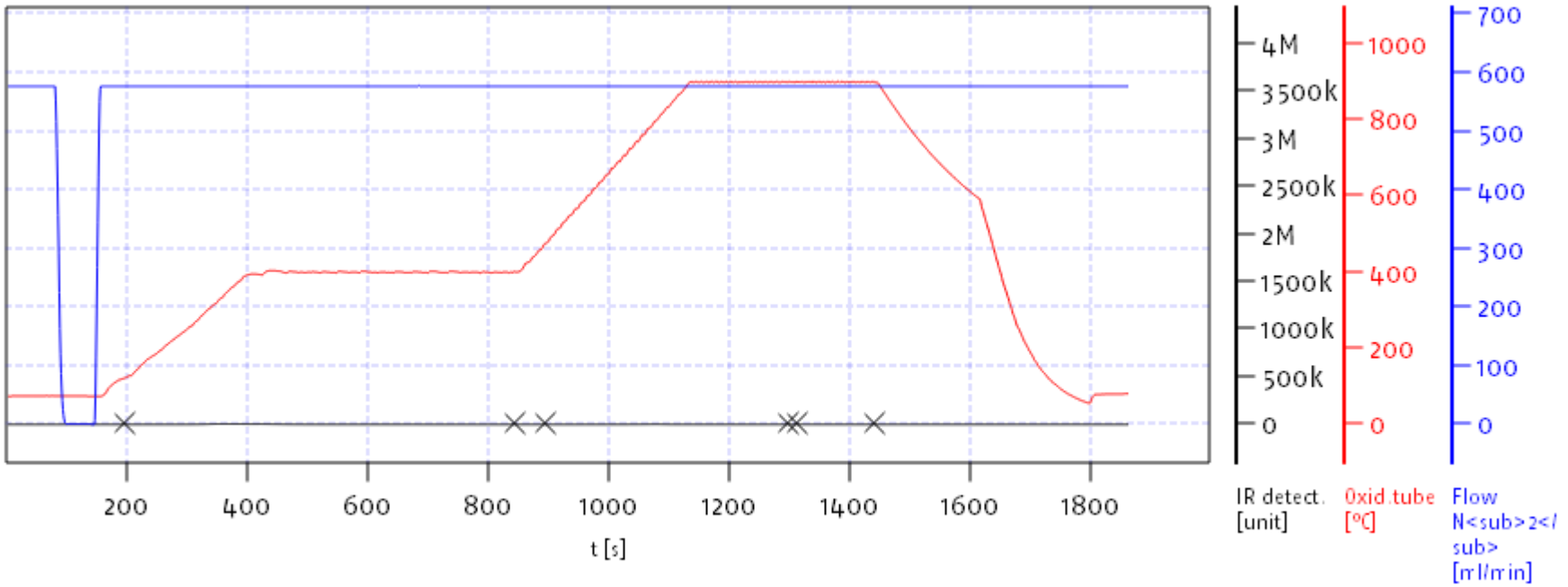
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
221	81	SJH0331-CCBI	586.00		1.00	CARBON	8/30/2021 9:59 AM	0.003	0.000	0.003	bl,C3u,C2u	23 563	4 985	576	0.9676	1.0000



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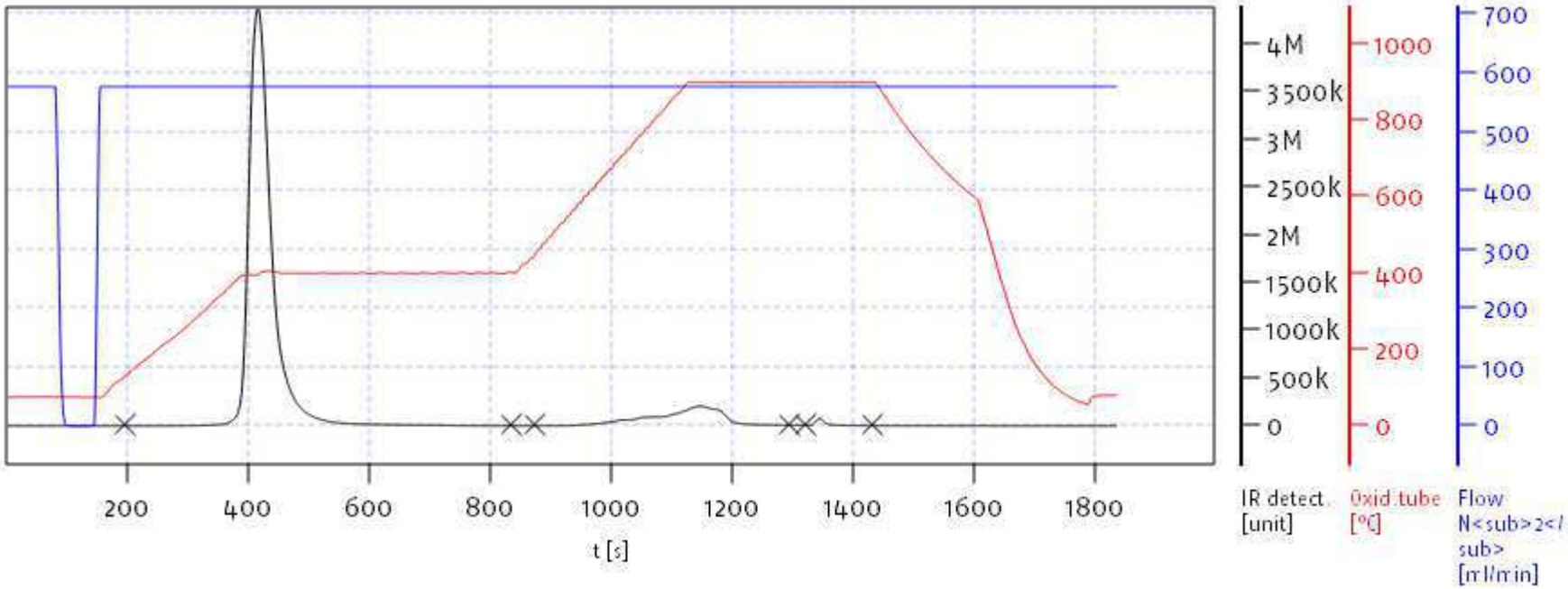
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
222	82	BJH0677-MS2	446.30	0.0141	1.00	CARBON	8/30/2021 10:30 AM	2.612	0.371	2.983	bl	7 093 380	992 173	61 344	0.9676	1.0000



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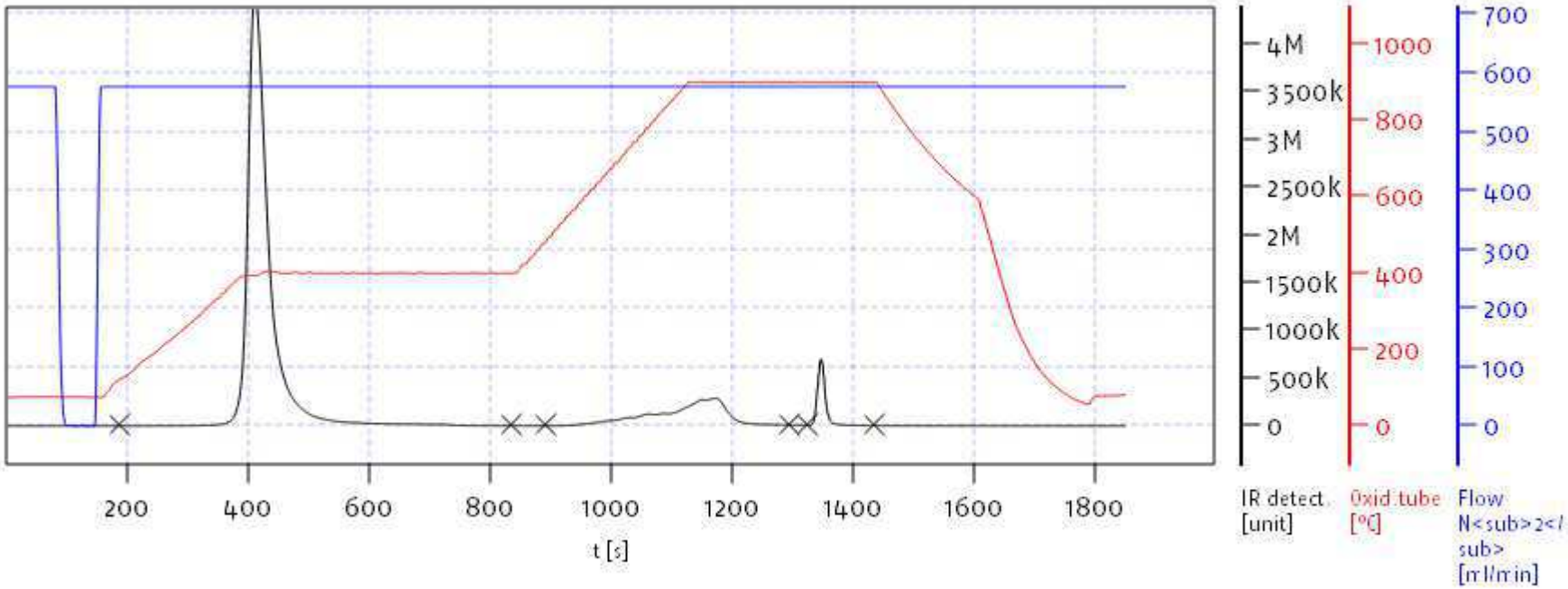
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
223	83	BJH0677-MSD2	451.90	0.0146	1.00	CARBON	8/30/2021 11:01 AM	2.604	0.502	3.106	bl	6 813 400	1 355 300	397 860	0.9676	1.0000



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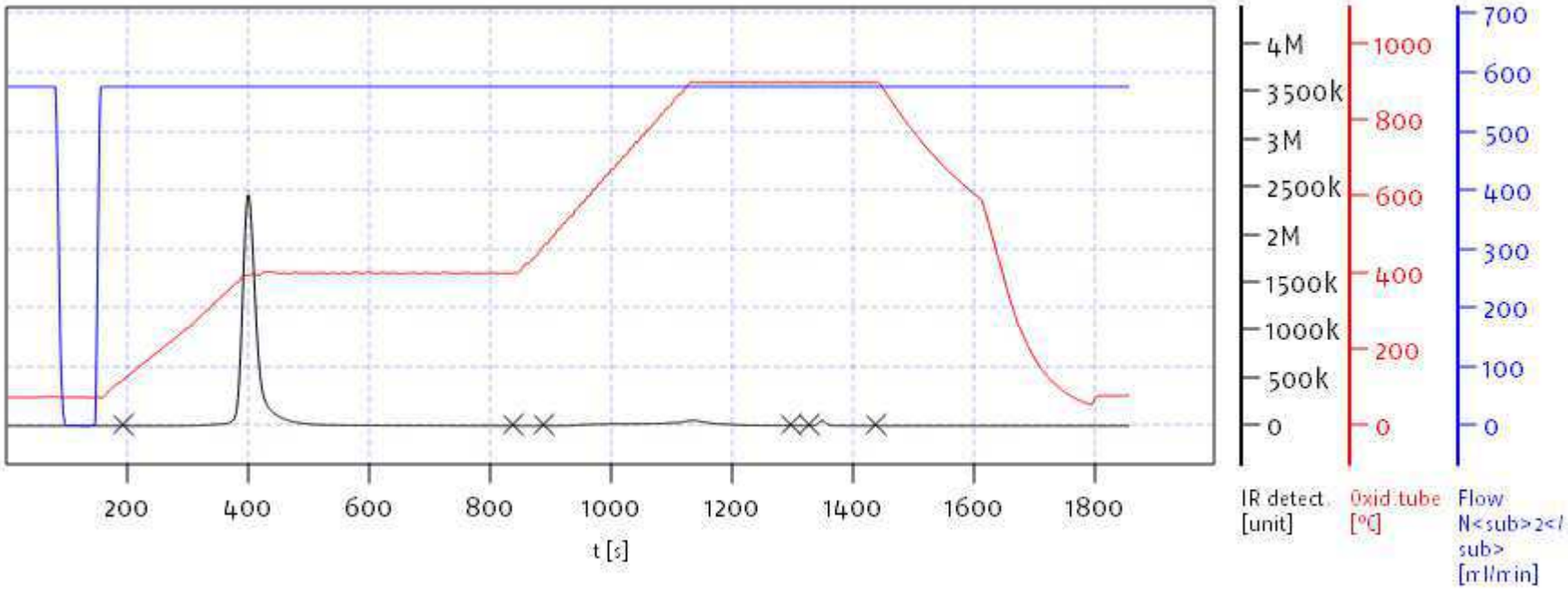
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
224	84	21H0281-04	255.10		1.00	CARBON	8/30/2021 11:33 AM	1.615	0.171	1.786	bl	2 511 560	270 300	32 476	0.9676	1.0000



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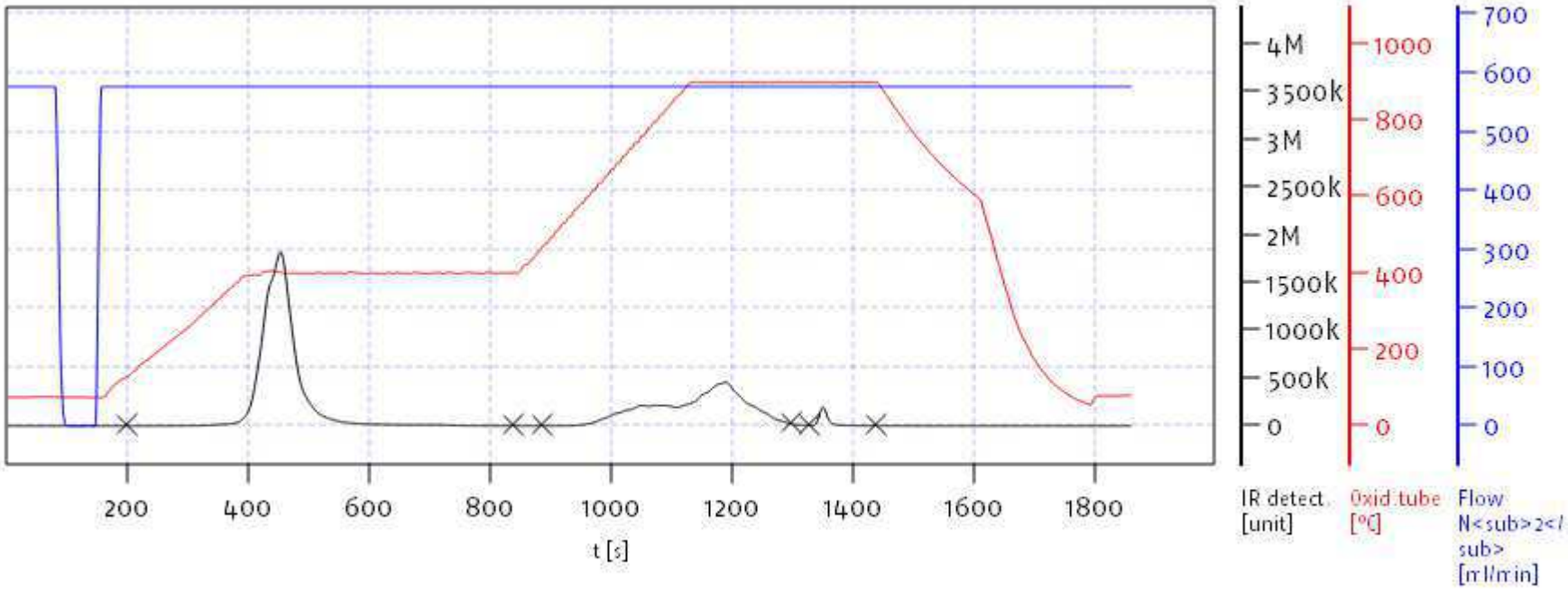
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
225	85	21H0281-11	770.90		1.00	CARBON	8/30/2021 12:04 PM	0.894	0.568	1.462	bl	4 111 100	2 604 340	125 164	0.9676	1.0000



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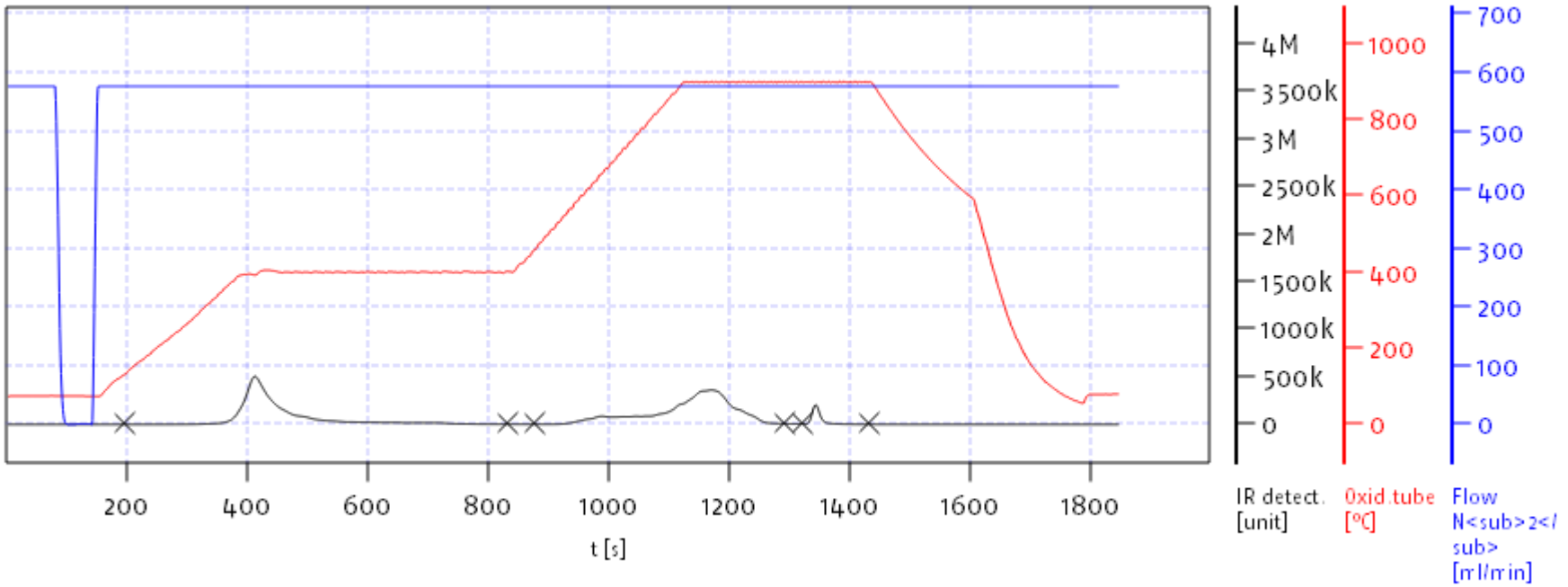
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
226	86	21H0281-14	315.70		1.00	CARBON	8/30/2021 12:35 PM	0.746	0.953	1.699	bl	1 332 770	1 792 890	127 280	0.9676	1.0000



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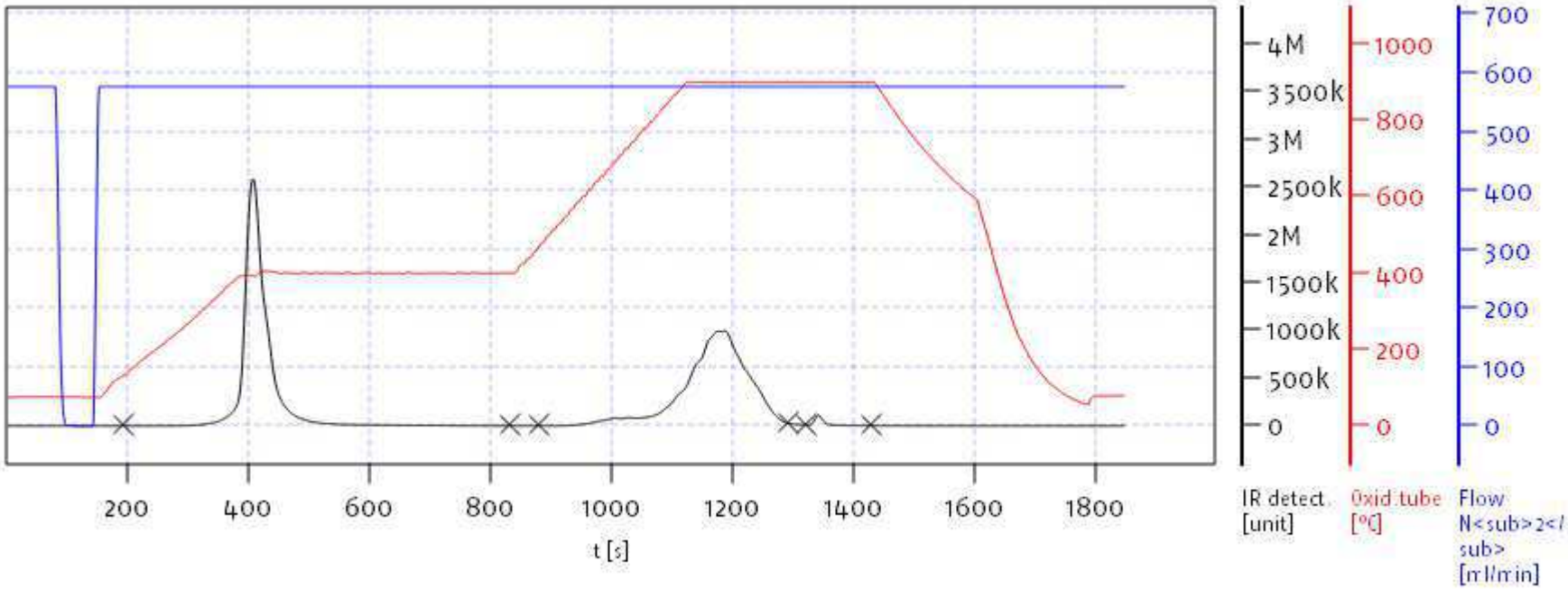
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
227	87	21H0281-15	369.40		1.00	CARBON	8/30/2021 1:07 PM	1.763	1.991	3.754	bl	3 926 950	4 365 750	79 254	0.9676	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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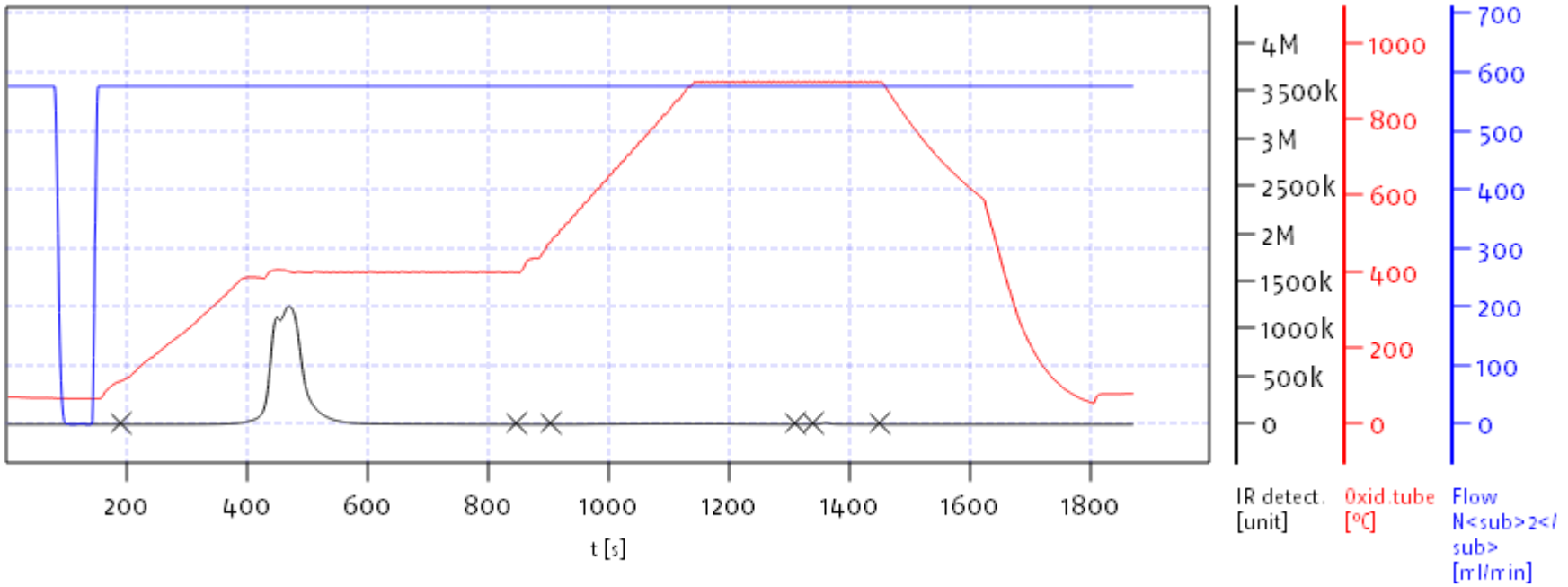
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
228	88	21G0303-02RE2	138.60		1.00	CARBON	8/30/2021 1:41 PM	3.374	0.053	3.427	bl	2 780 800	54 927	11 700	1.0000	1.0000



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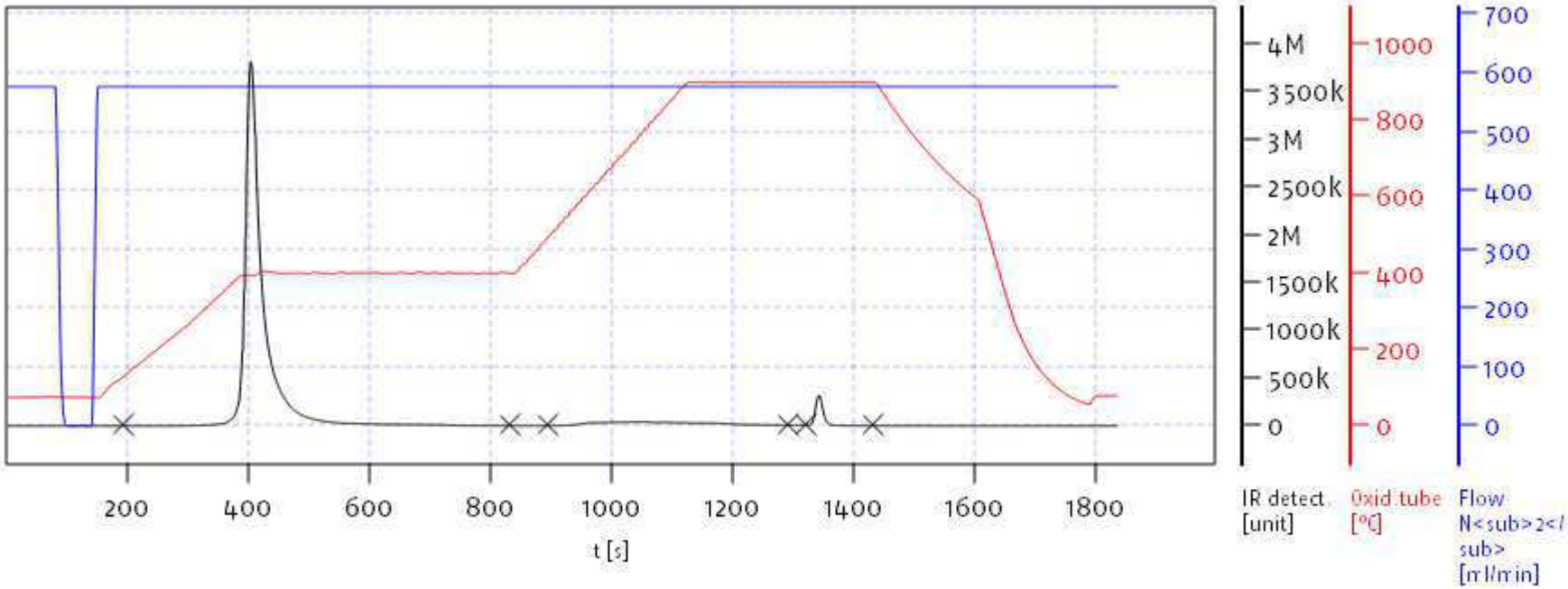
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
229	89	BJH0300-MS3	286.90	0.0132	1.00	CARBON	8/30/2021 2:12 PM	2.785	0.204	2.989	bl	4 726 410	358 091	180 107	0.9676	1.0000



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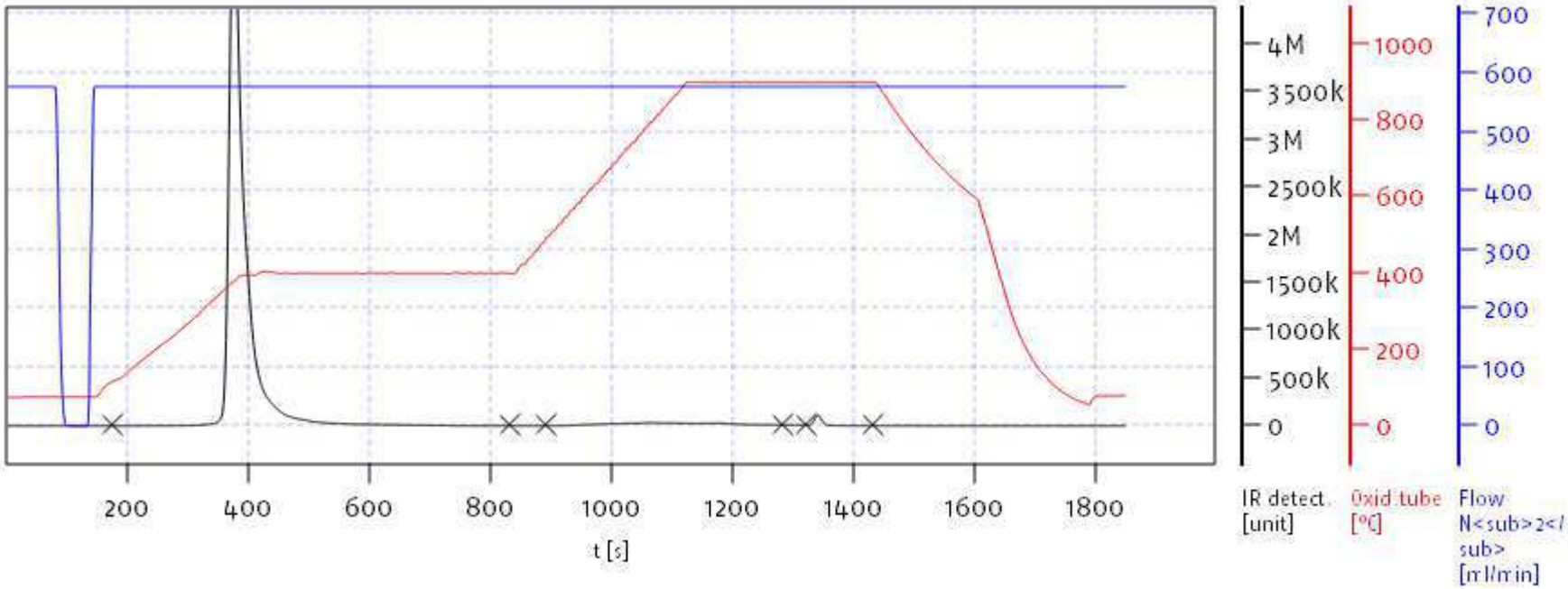
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
230	1	BJH0300-MS4	273.90	0.0102	1.00	CARBON	8/30/2021 2:43 PM	3.680	0.167	3.847	bl	6 122 540	281 811	67 609	0.9676	1.0000



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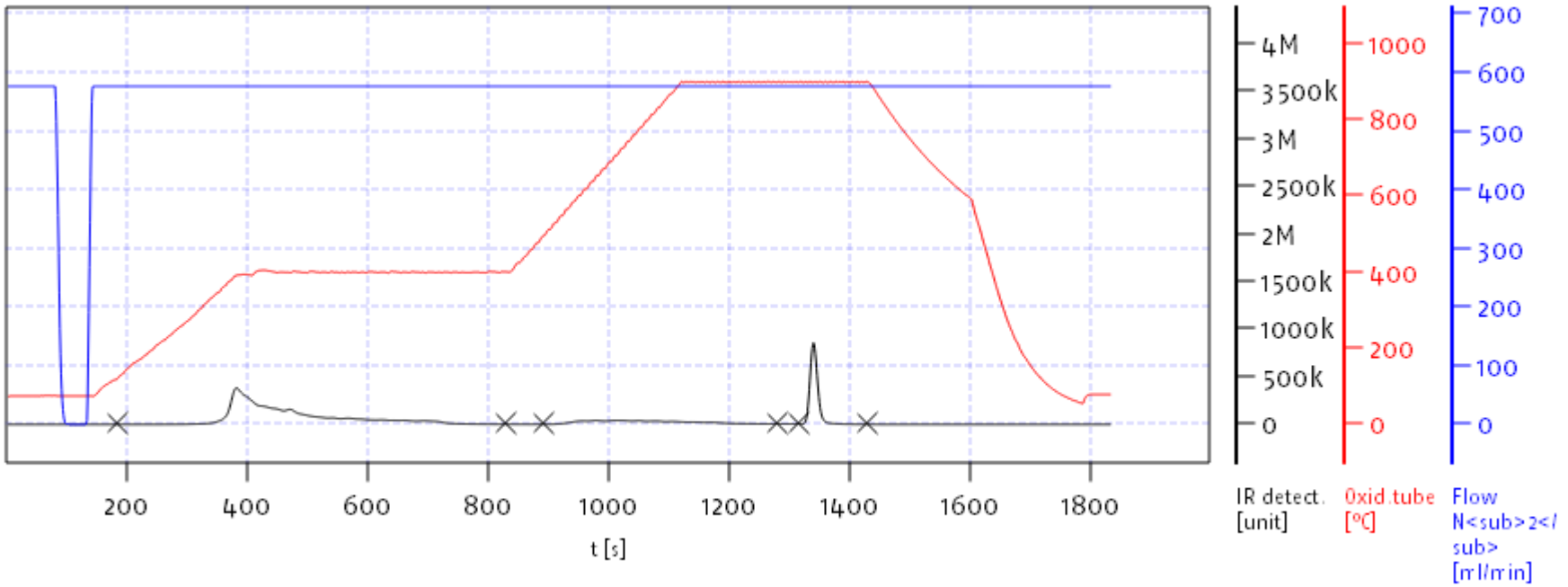
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
231	2	21G0305-02RE1	249.20		1.00	CARBON	8/30/2021 3:14 PM	1.304	0.222	1.527	bl	1 517 780	339 933	478 774	0.9676	1.0000



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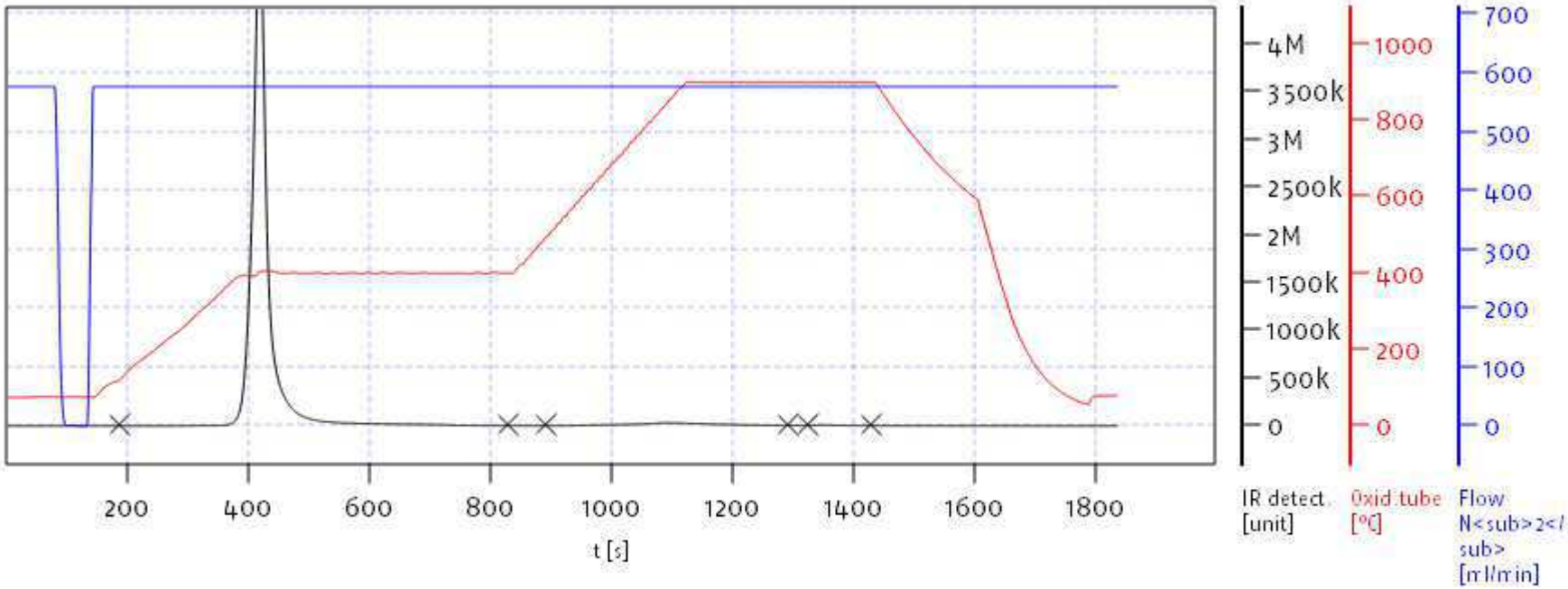
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
232	3	SJH0331-CCVJ	20.90		1.00	CARBON	8/30/2021 3:45 PM	45.536	1.533	47.069	bl	5 638 790	201 321	19 734	1.0000	1.0000



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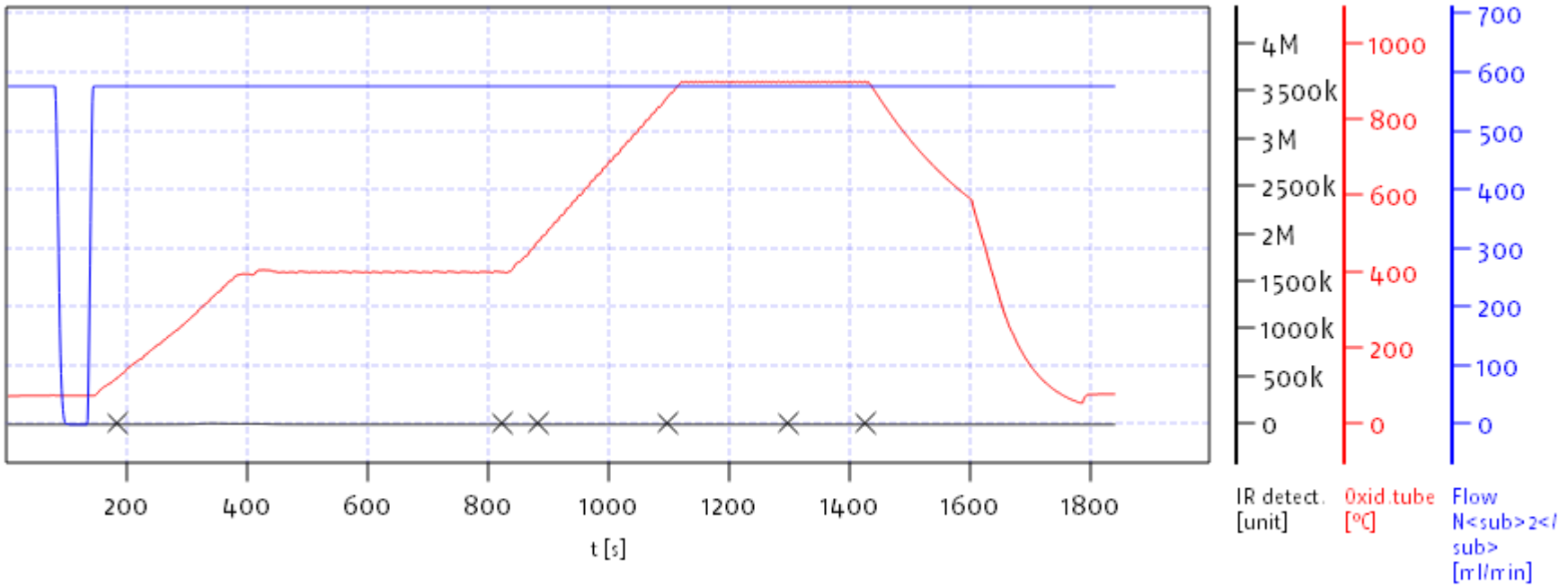
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
233	4	SJH0331-CCBJ	559.70		1.00	CARBON	8/30/2021 4:16 PM	0.007	0.000	0.007	bl,C3u,C2u	36 369	1 670	384	1.0000	1.0000



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Analyst: BF

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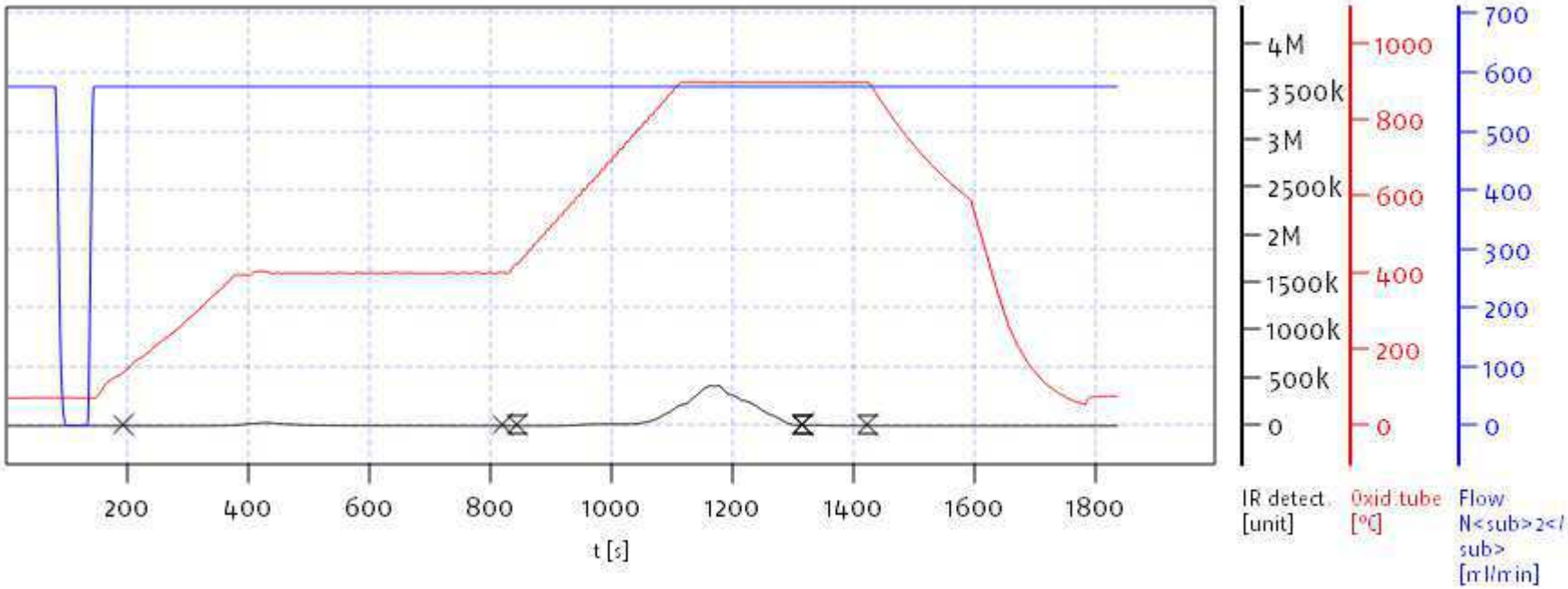
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
147	7	21G0310-03RE1	217.60		1.00	CARBON	9/1/2021 10:21 AM	0.083	1.269	1.352	bl	119 849	1 646 642	0	0.9913	1.0000



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Document: 082521BFb from: 9/1/2021 10:22 AM

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0417	Instrument:	TOC Cube
		Calibration:	EH00065

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SJH0417-ICV1	peData_09062021@0807-(	NA	09/01/21 12:46
Initial Cal Blank	SJH0417-ICB1	peData_09062021@0807-(	NA	09/01/21 13:17
Calibration Check	SJH0417-CCV1	peData_09062021@0807-(	NA	09/01/21 18:57
Calibration Blank	SJH0417-CCB1	peData_09062021@0807-1	NA	09/01/21 19:28
Calibration Check	SJH0417-CCV2	peData_09062021@0807-1	NA	09/02/21 01:07
Calibration Blank	SJH0417-CCB2	peData_09062021@0807-1	NA	09/02/21 01:37
Calibration Check	SJH0417-CCV3	peData_09062021@0807-2	NA	09/02/21 07:16
Calibration Blank	SJH0417-CCB3	peData_09062021@0807-2	NA	09/02/21 07:47
Calibration Check	SJH0417-CCV4	peData_09062021@0807-3	NA	09/02/21 13:25
Calibration Blank	SJH0417-CCB4	peData_09062021@0807-3	NA	09/02/21 13:56
Calibration Check	SJH0417-CCV5	peData_09062021@0807-4	NA	09/02/21 19:35
Calibration Blank	SJH0417-CCB5	peData_09062021@0807-4	NA	09/02/21 20:06
Calibration Check	SJH0417-CCV6	peData_09062021@0807-4	NA	09/03/21 01:42
Calibration Blank	SJH0417-CCB6	peData_09062021@0807-4	NA	09/03/21 02:13
Calibration Check	SJH0417-CCV7	peData_09062021@0807-5	NA	09/03/21 07:48
Calibration Blank	SJH0417-CCB7	peData_09062021@0807-5	NA	09/03/21 08:19
Calibration Check	SJH0417-CCV8	peData_09062021@0807-(	NA	09/03/21 13:55
Calibration Blank	SJH0417-CCB8	peData_09062021@0807-(	NA	09/03/21 14:25
Calibration Check	SJH0417-CCV9	peData_09062021@0807-1	NA	09/03/21 20:03
Calibration Blank	SJH0417-CCB9	peData_09062021@0807-1	NA	09/03/21 20:33
LDW20-IT384	BJH0674-DUP2	peData_09062021@0807-2	Solid	09/04/21 01:08
Calibration Check	SJH0417-CCVA	peData_09062021@0807-2	NA	09/04/21 02:09
Calibration Blank	SJH0417-CCBA	peData_09062021@0807-2	NA	09/04/21 02:39
Calibration Check	SJH0417-CCVB	peData_09062021@0807-3	NA	09/04/21 08:14
Calibration Blank	SJH0417-CCBB	peData_09062021@0807-3	NA	09/04/21 08:45
Calibration Check	SJH0417-CCVC	peData_09062021@0807-3	NA	09/04/21 14:21
Calibration Blank	SJH0417-CCBC	peData_09062021@0807-3	NA	09/04/21 14:52
Calibration Check	SJH0417-CCVD	peData_09062021@0807-4	NA	09/04/21 20:28
Calibration Blank	SJH0417-CCBD	peData_09062021@0807-4	NA	09/04/21 20:59
Calibration Check	SJH0417-CCVE	peData_09062021@0807-5	NA	09/05/21 02:04

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ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

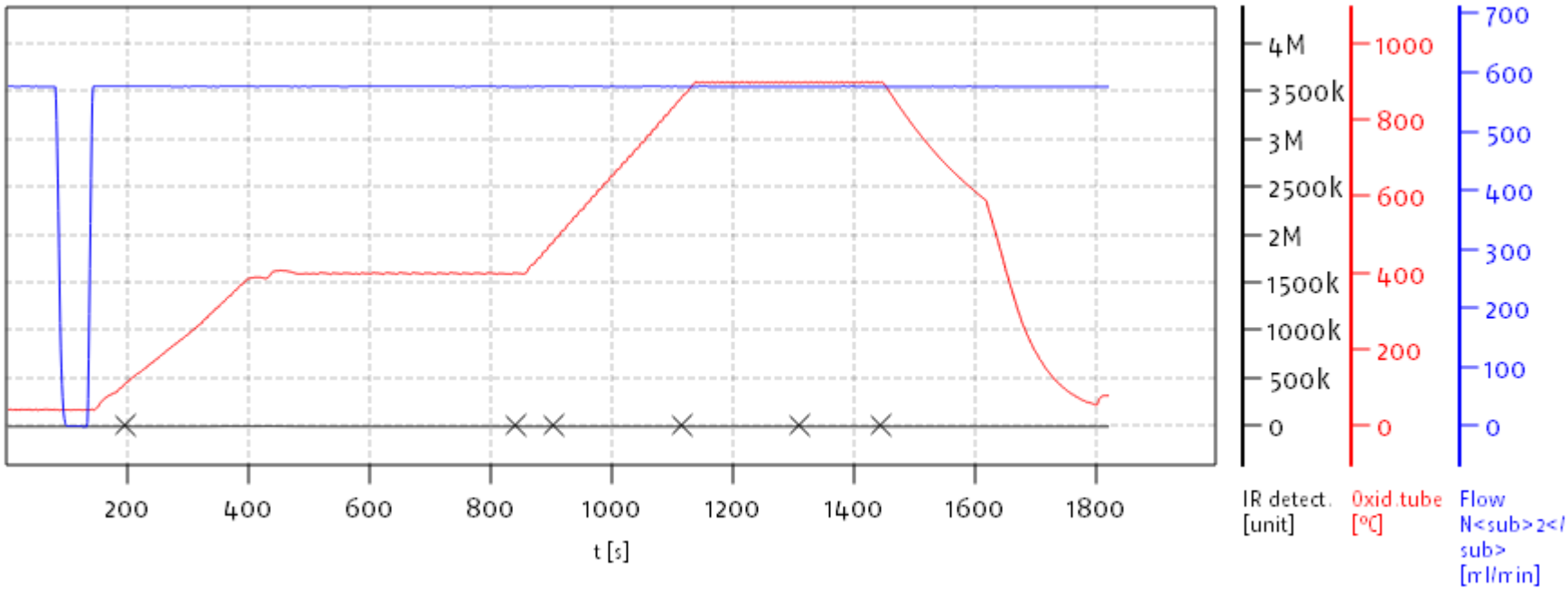
Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Sequence:	SJH0417	Instrument:	TOC Cube
		Calibration:	EH00065

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SJH0417-CCBE	beData_09062021@0807-5	NA	09/05/21 02:35

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	9/1/2021 11:14 AM	0.000	0.000	0.000	bl	19 392	2 288	1 495	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

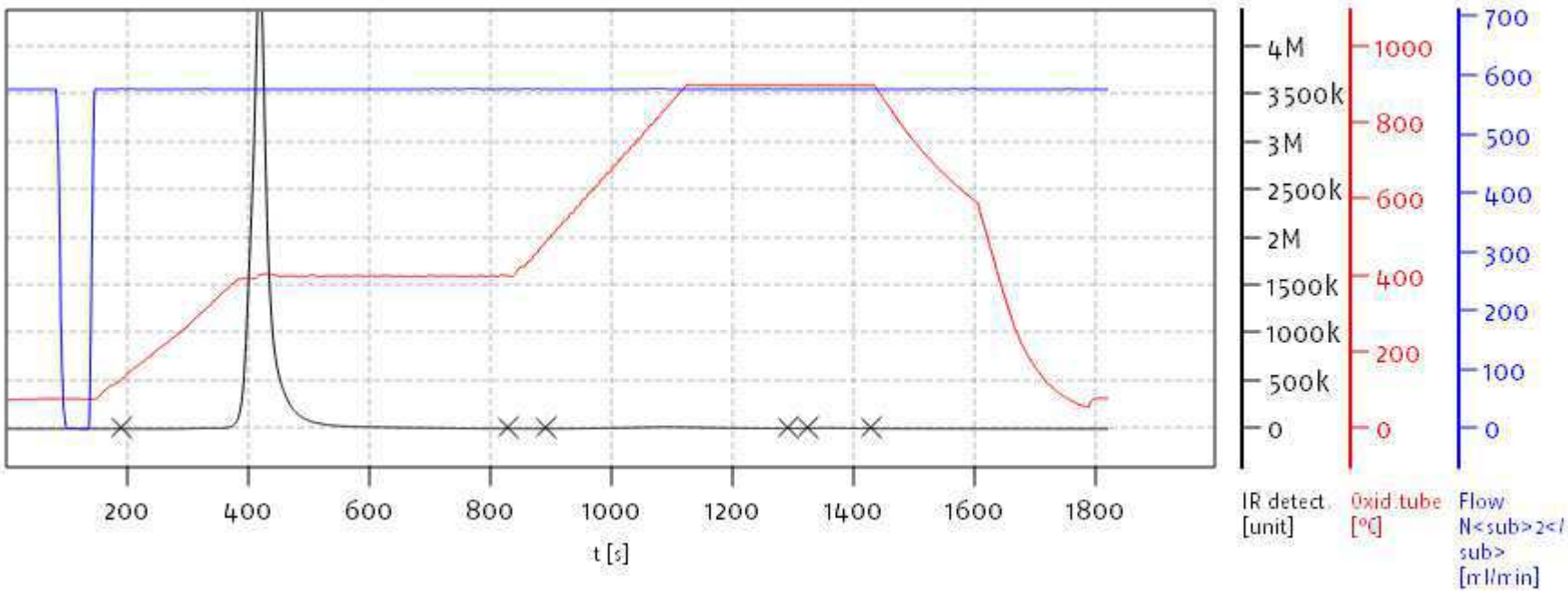
elementar
EXCELLENCE IN ELEMENTS

Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	Dfactor	21.40		1.00	CARBON	9/1/2021 11:45 AM	44.526	0.984	45.510	bl	5 774 930	136 398	21 855	0.9772	1.0000



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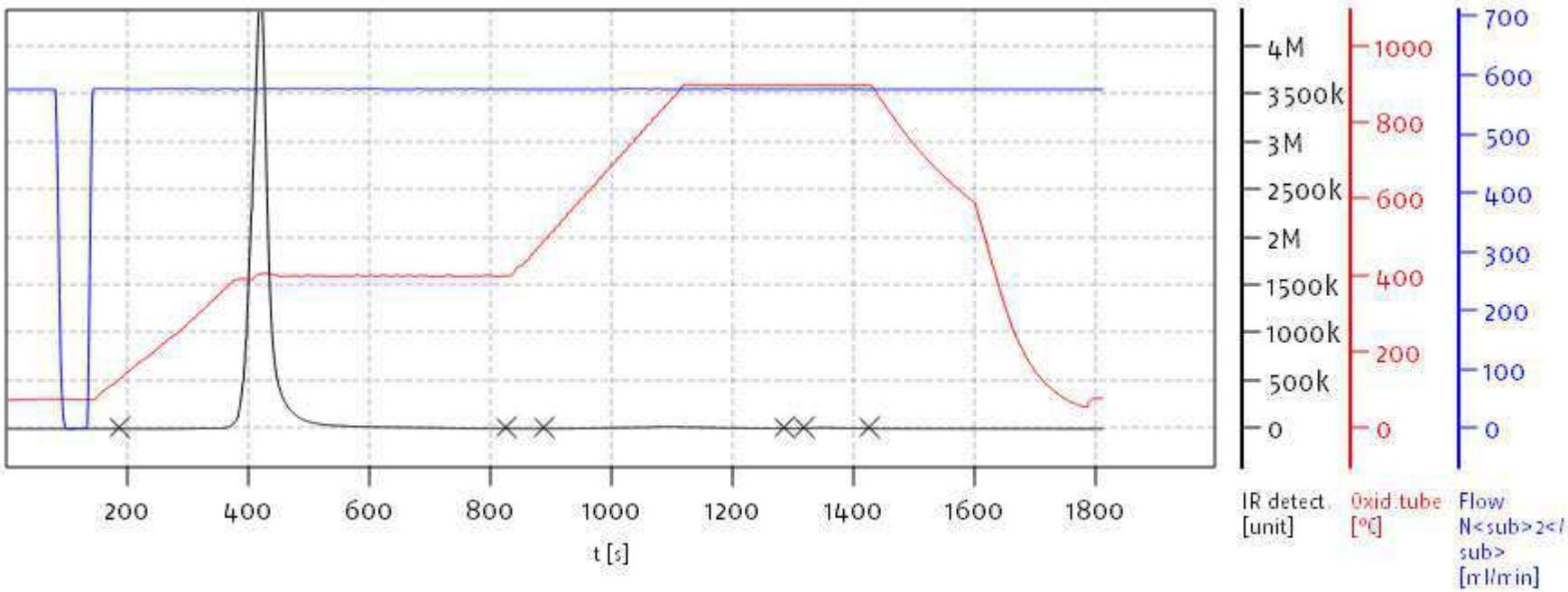
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	Dfactor	21.30		1.00	CARBON	9/1/2021 12:16 PM	44.552	1.070	45.622	bl	5 673 250	146 630	25 106	0.9901	1.0000



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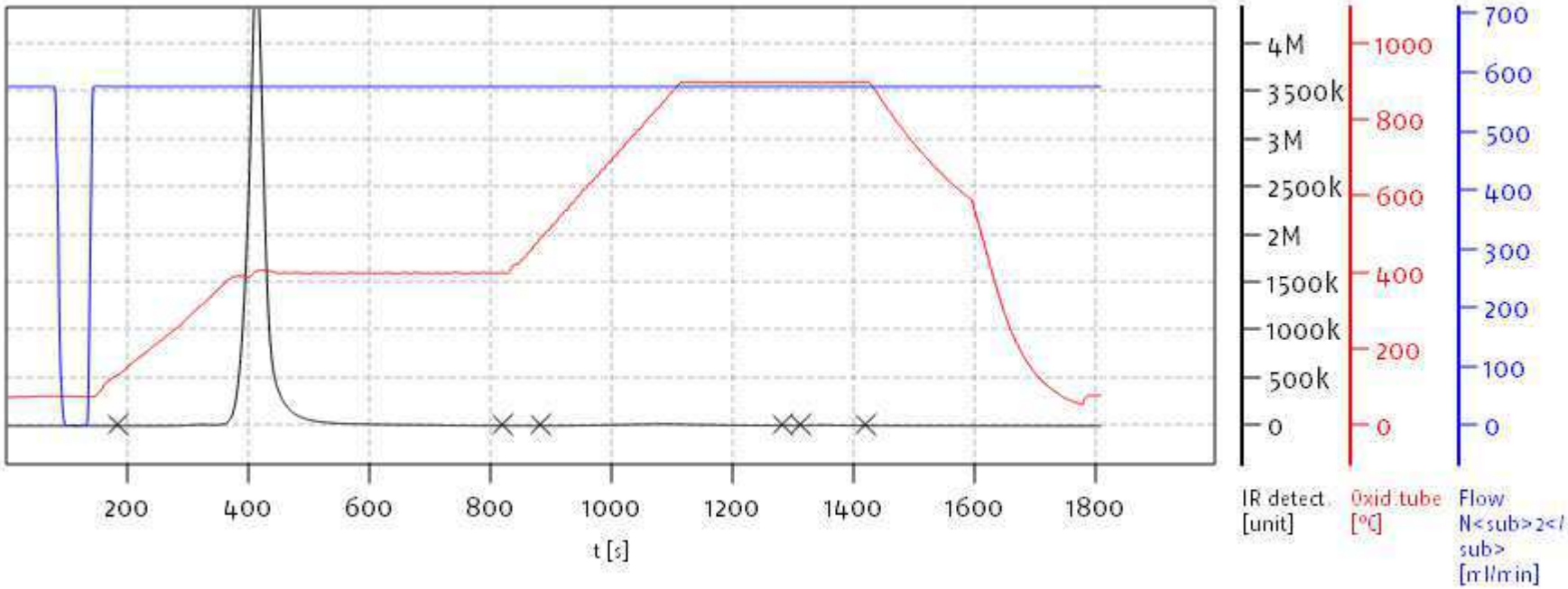
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SJH0417-ICV1	22.10		1.00	CARBON	9/1/2021 12:46 PM	44.958	0.922	45.880	bl	5 983 630	132 286	20 538	0.9836	1.0000



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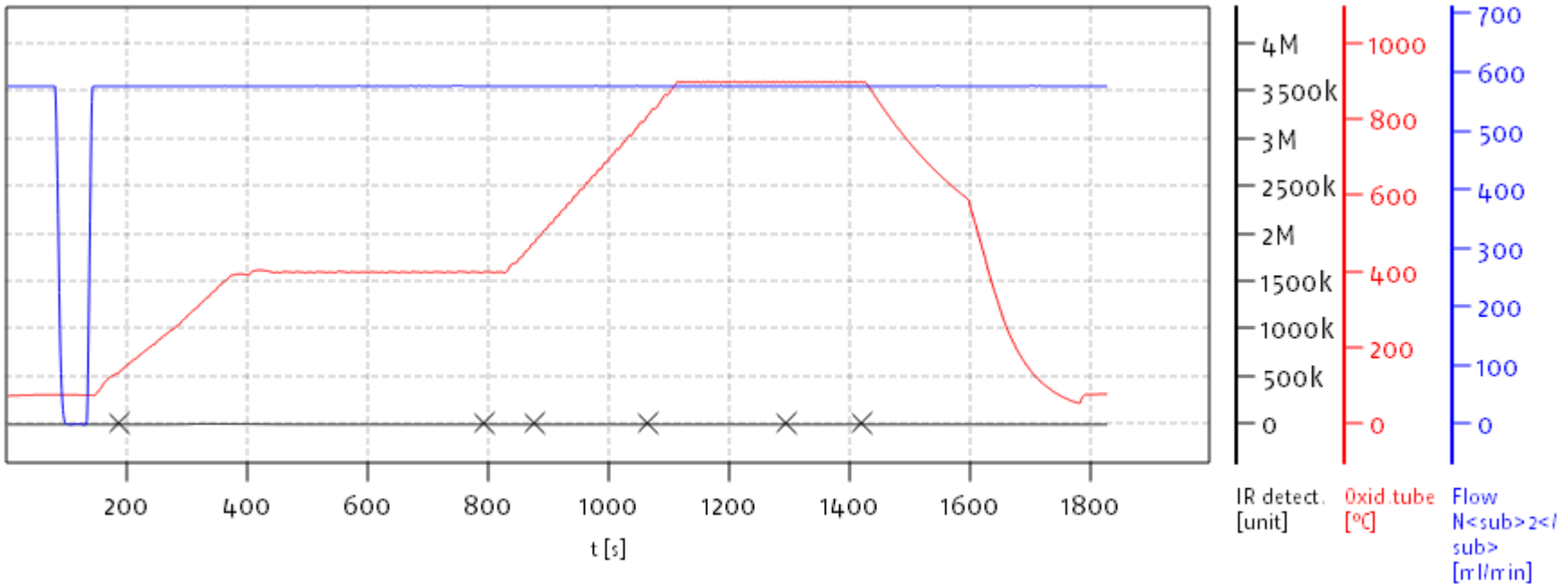
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SJH0417-ICB1	516.10		1.00	CARBON	9/1/2021 1:17 PM	0.005	0.000	0.005	bl,C3u,C2u	25 651	148	694	0.9836	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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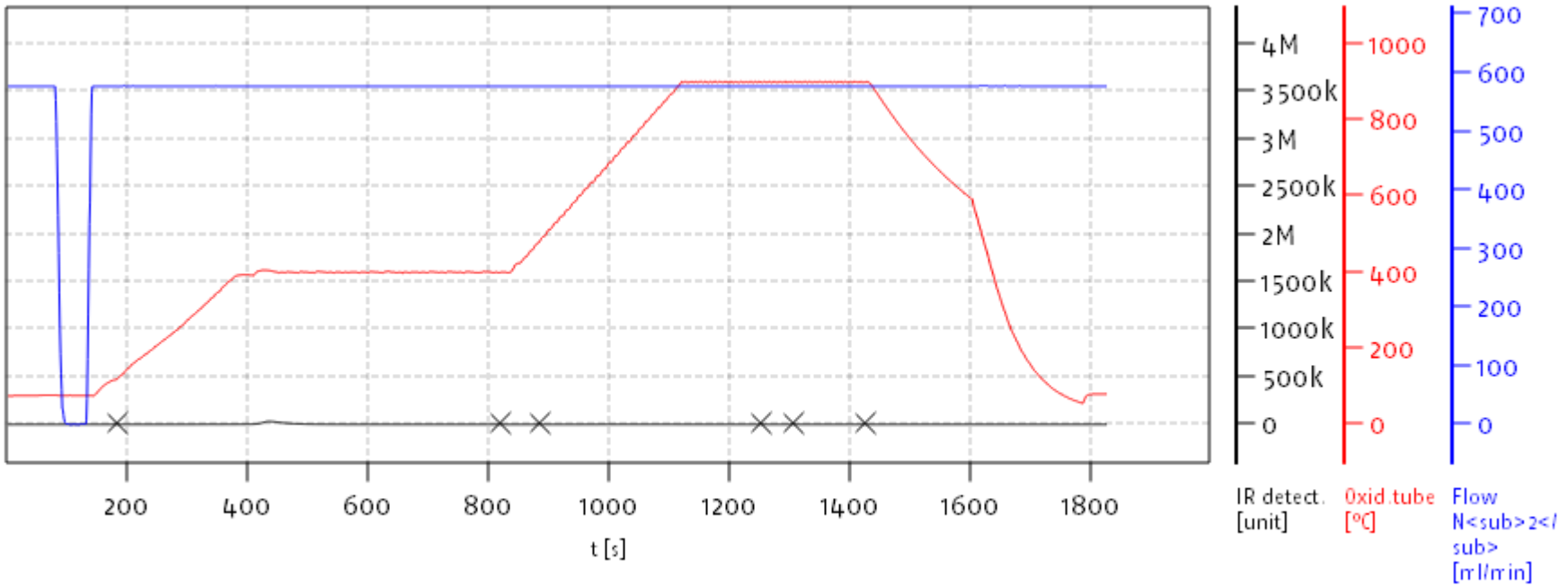
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	BJH0805-MRL1	561.40		1.00	CARBON	9/1/2021 1:48 PM	0.015	0.000	0.015	bl,C3u,C2u	61 766	6 003	757	0.9836	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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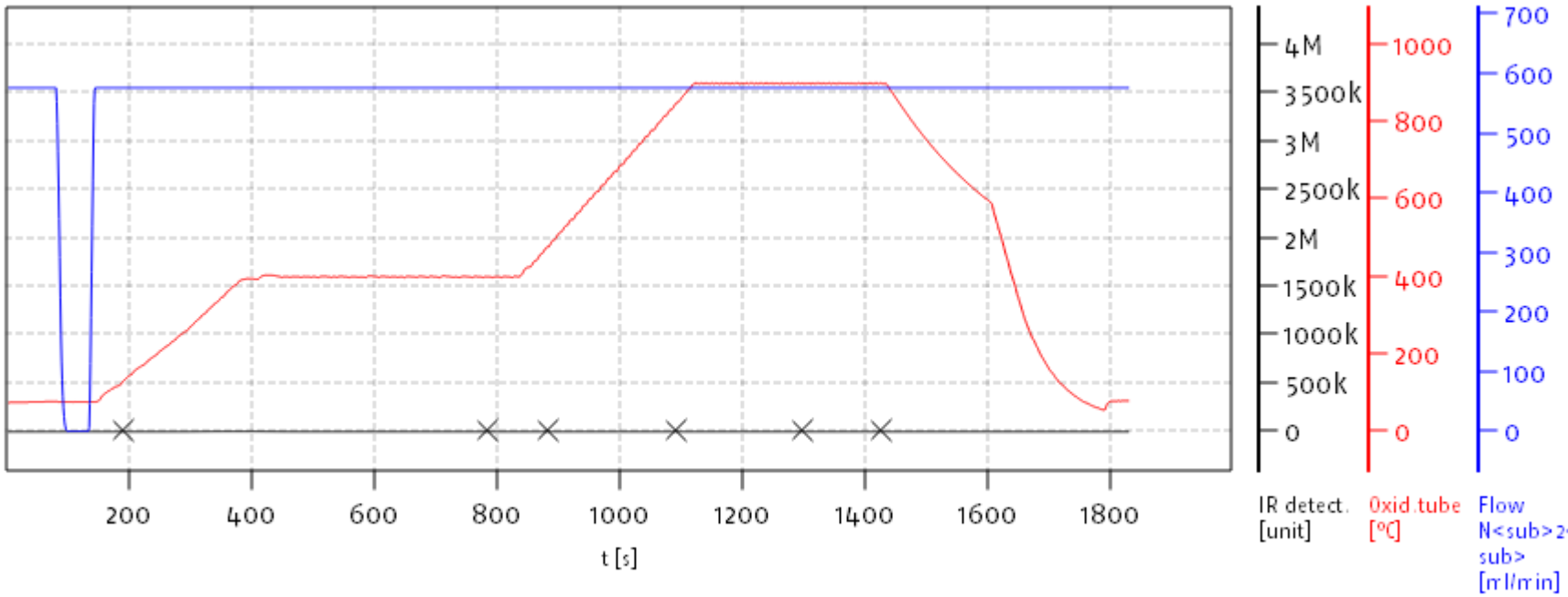
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	BJH0805-BLK1	547.50		1.00	CARBON	9/1/2021 2:19 PM	0.001	0.000	0.001	bl,C3u,C2u	13 848	794	598	0.9836	1.0000



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Balance: BAL3
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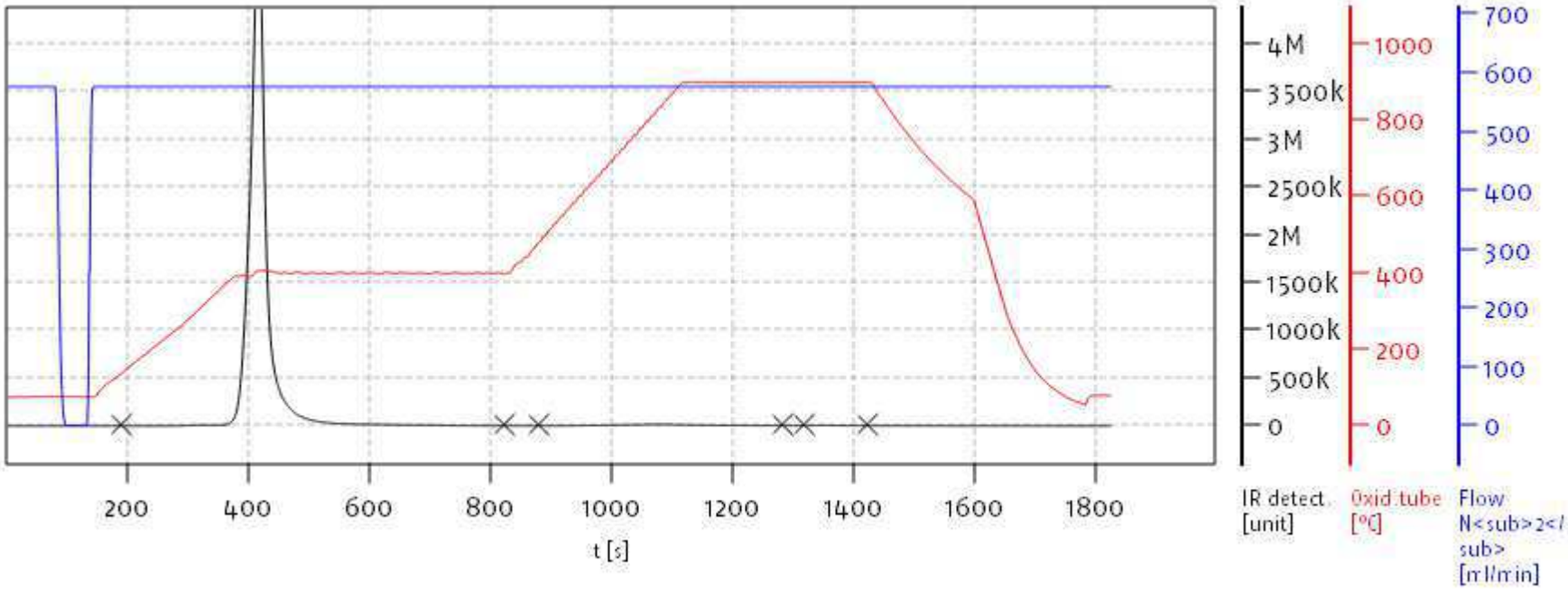
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	BJH0805-BS1	21.70		1.00	CARBON	9/1/2021 2:50 PM	45.666	0.716	46.382	bl	5 972 750	103 721	15 665	0.9836	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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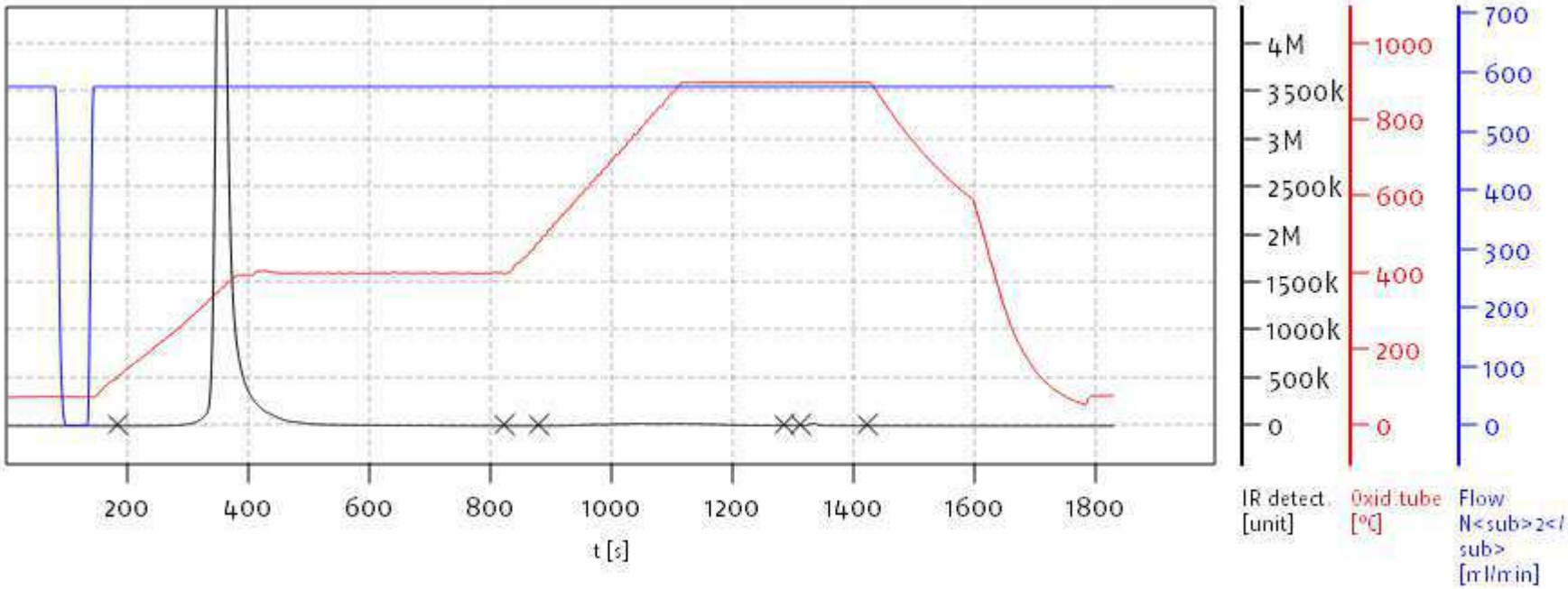
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	21H0301-01	509.10		1.00	CARBON	9/1/2021 3:21 PM	2.246	0.057	2.303	bl	6 886 360	184 572	19 916	0.9836	1.0000



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Date: Mon Sep 6 07:32:29 2021

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Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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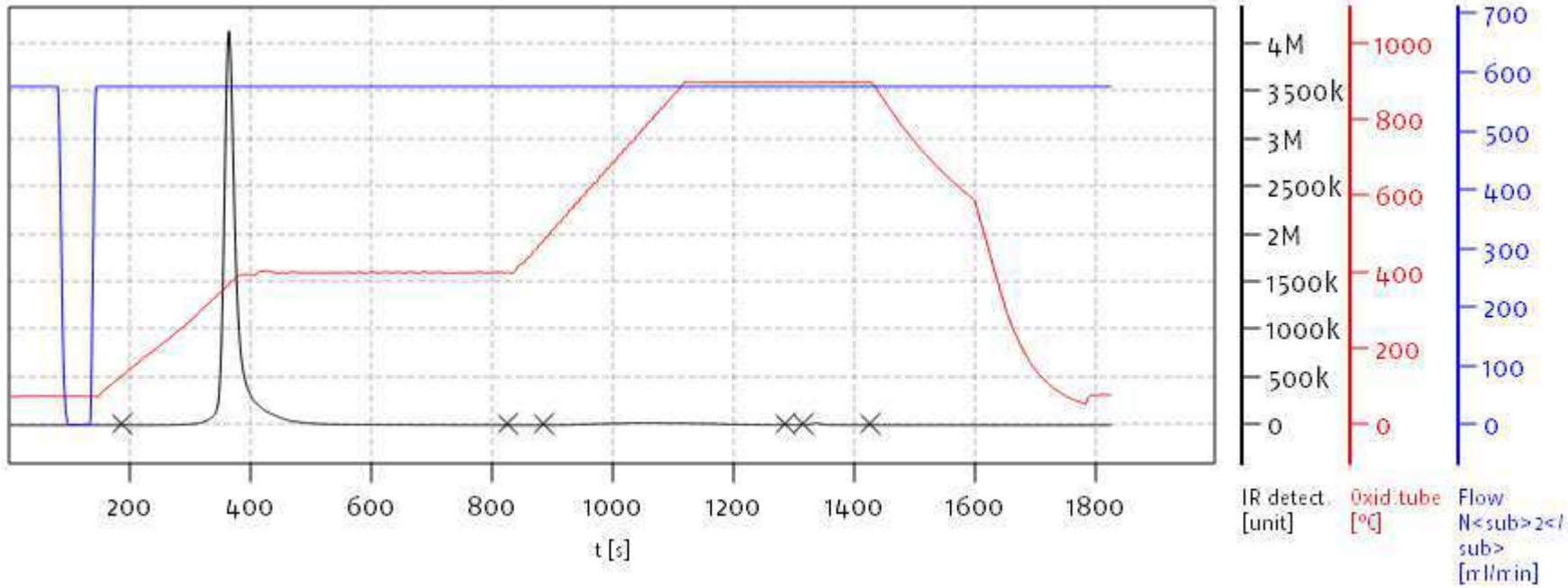
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	21H0301-02	506.70		1.00	CARBON	9/1/2021 3:52 PM	1.264	0.055	1.318	bl	3 860 660	175 546	17 091	0.9836	1.0000



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Date: Mon Sep 6 07:32:29 2021

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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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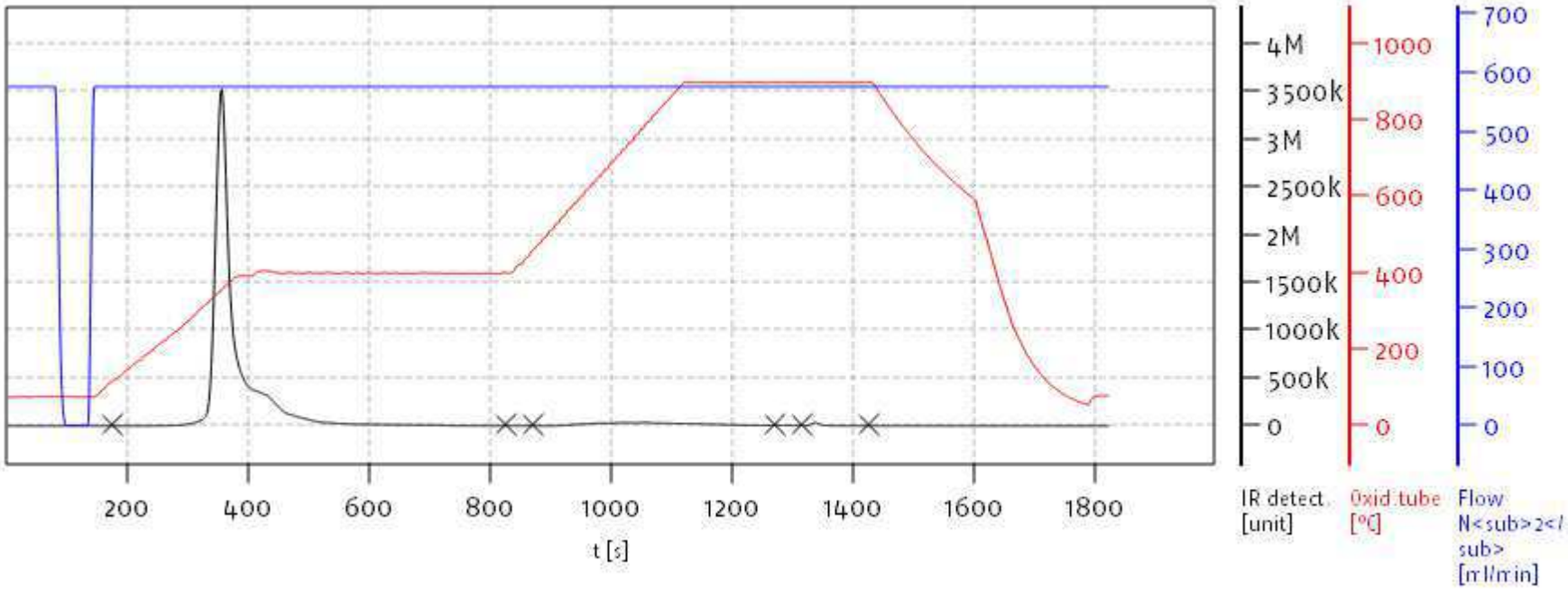
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	21H0301-03	511.10		1.00	CARBON	9/1/2021 4:22 PM	1.531	0.083	1.615	bl	4 709 730	264 254	24 597	0.9836	1.0000



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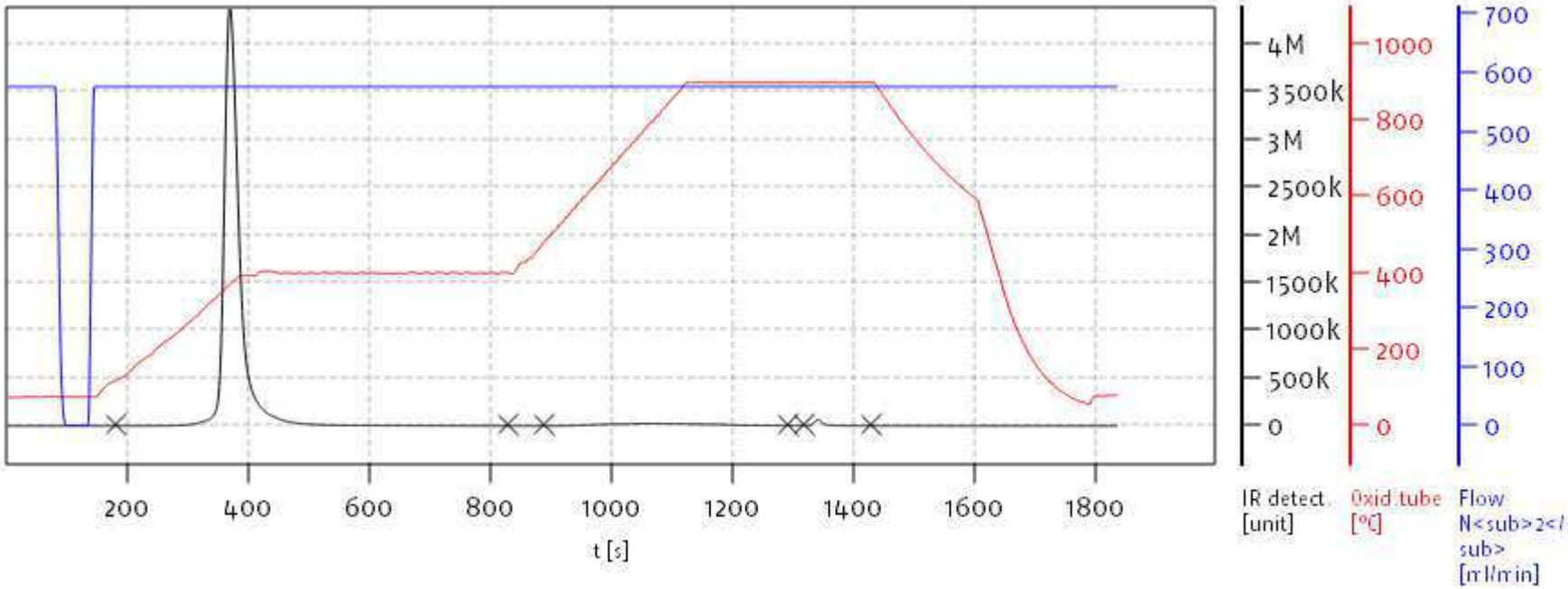
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	21H0301-04	517.90		1.00	CARBON	9/1/2021 4:54 PM	1.564	0.057	1.621	bl	4 853 460	187 521	44 238	0.9836	1.0000



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Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
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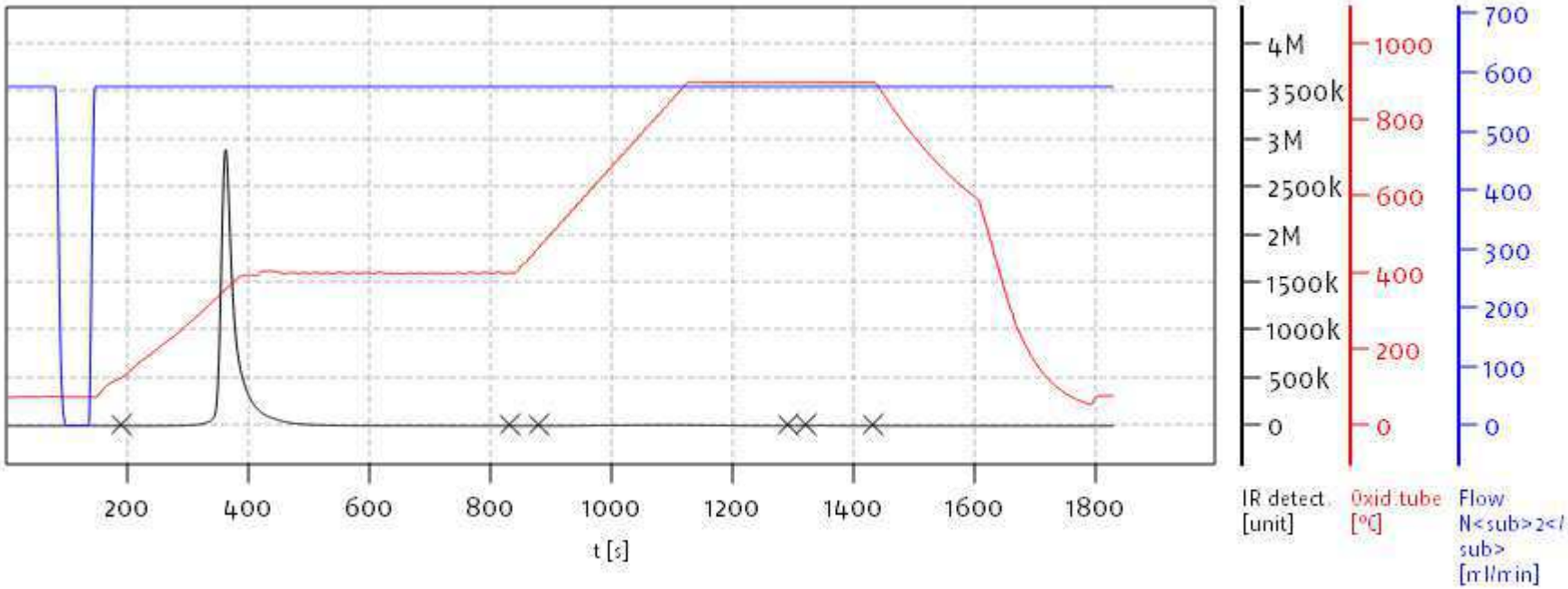
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	21H0301-08	361.70		1.00	CARBON	9/1/2021 5:24 PM	1.347	0.027	1.374	bl,C2u	2 945 180	69 832	6 388	0.9836	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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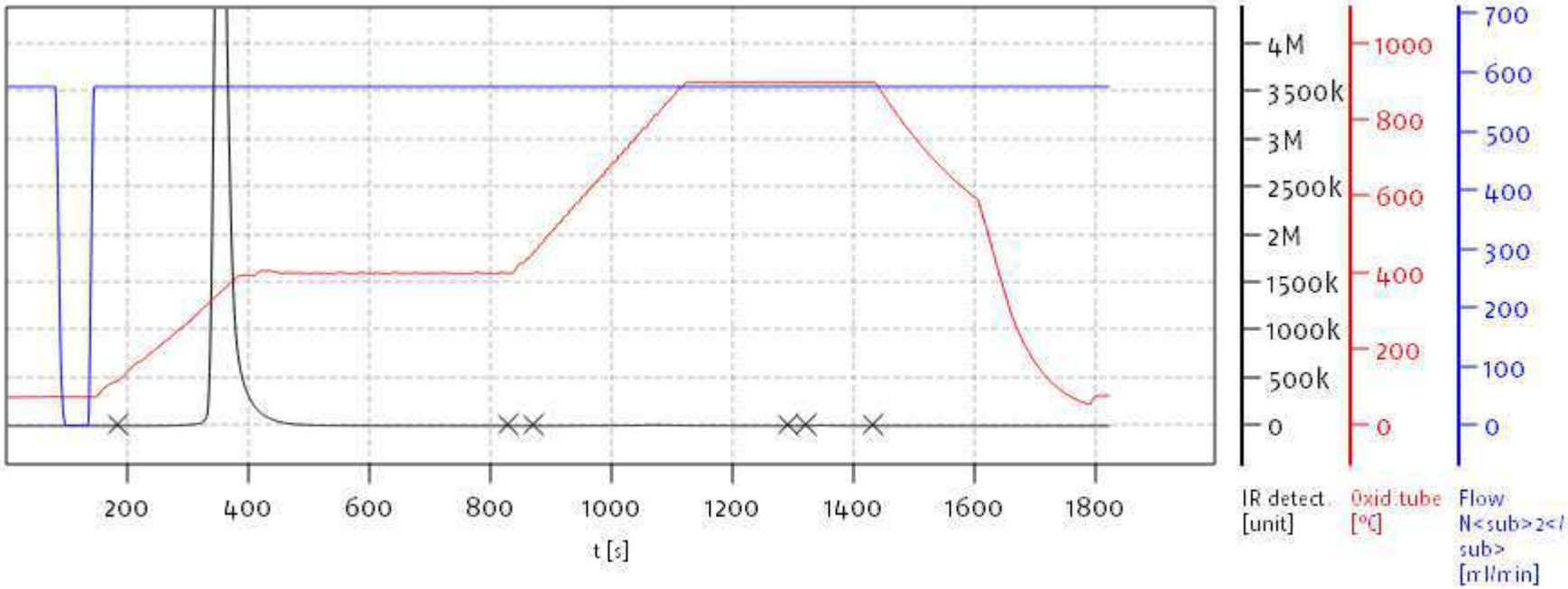
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	21H0301-09	246.90		1.00	CARBON	9/1/2021 5:55 PM	4.890	0.018	4.908	bl,C2u	7 279 390	37 651	7 027	0.9836	1.0000



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Date: Mon Sep 6 07:32:29 2021

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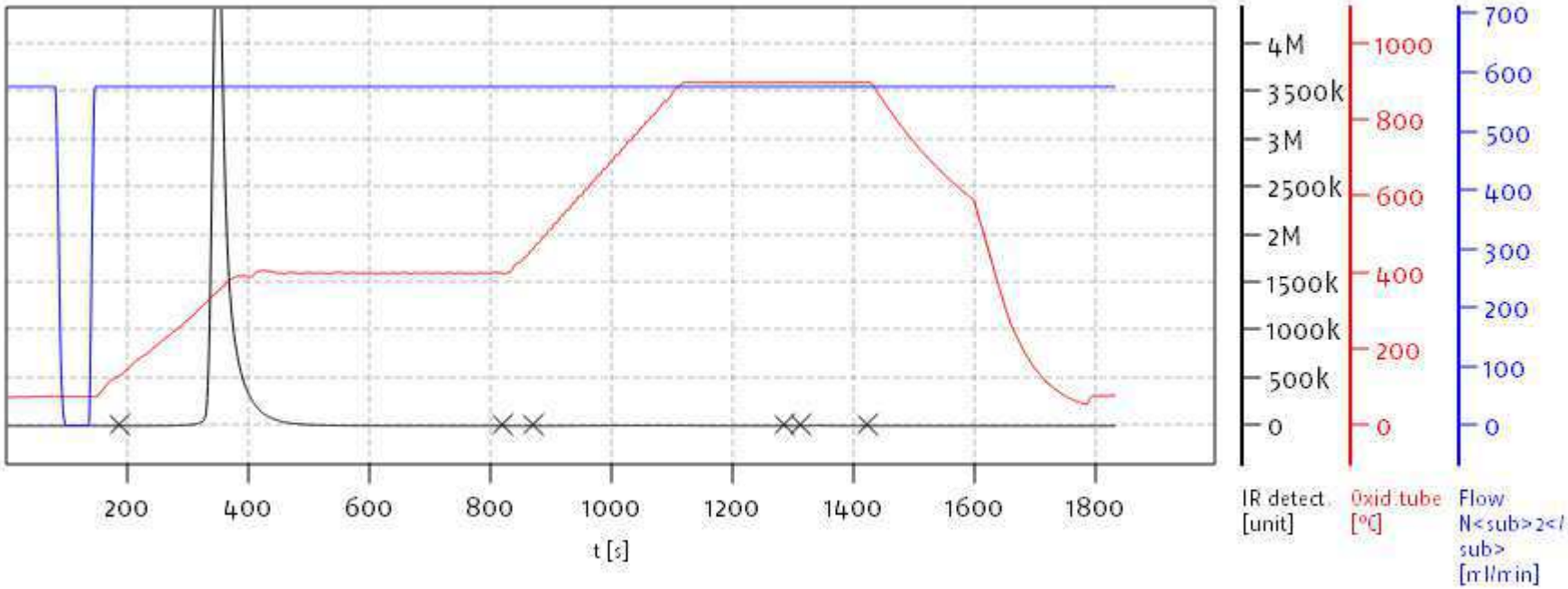
Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	21H0301-10	243.80		1.00	CARBON	9/1/2021 6:26 PM	3.837	0.013	3.850	bl,C2u	5 643 060	30 755	5 245	0.9836	1.0000



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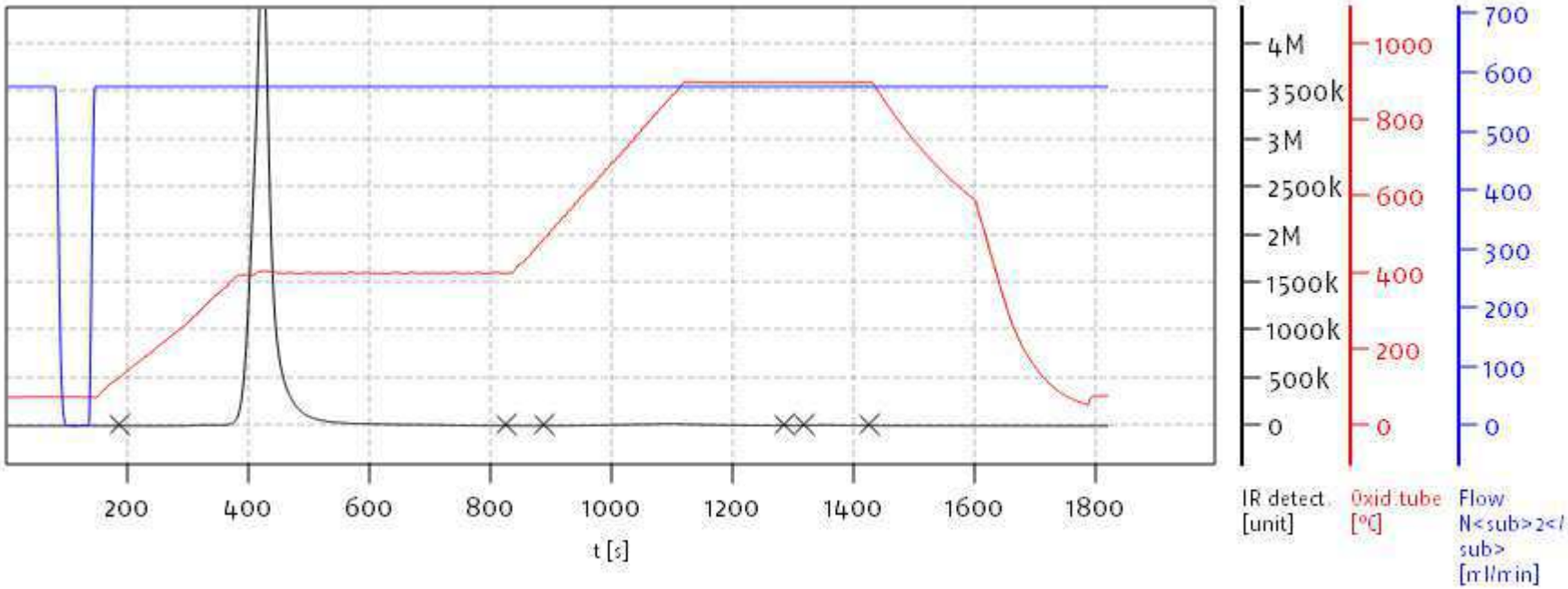
Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SJH0417-CCV1	23.90		1.00	CARBON	9/1/2021 6:57 PM	44.993	0.899	45.892	bl	6 474 380	138 898	21 876	0.9836	1.0000



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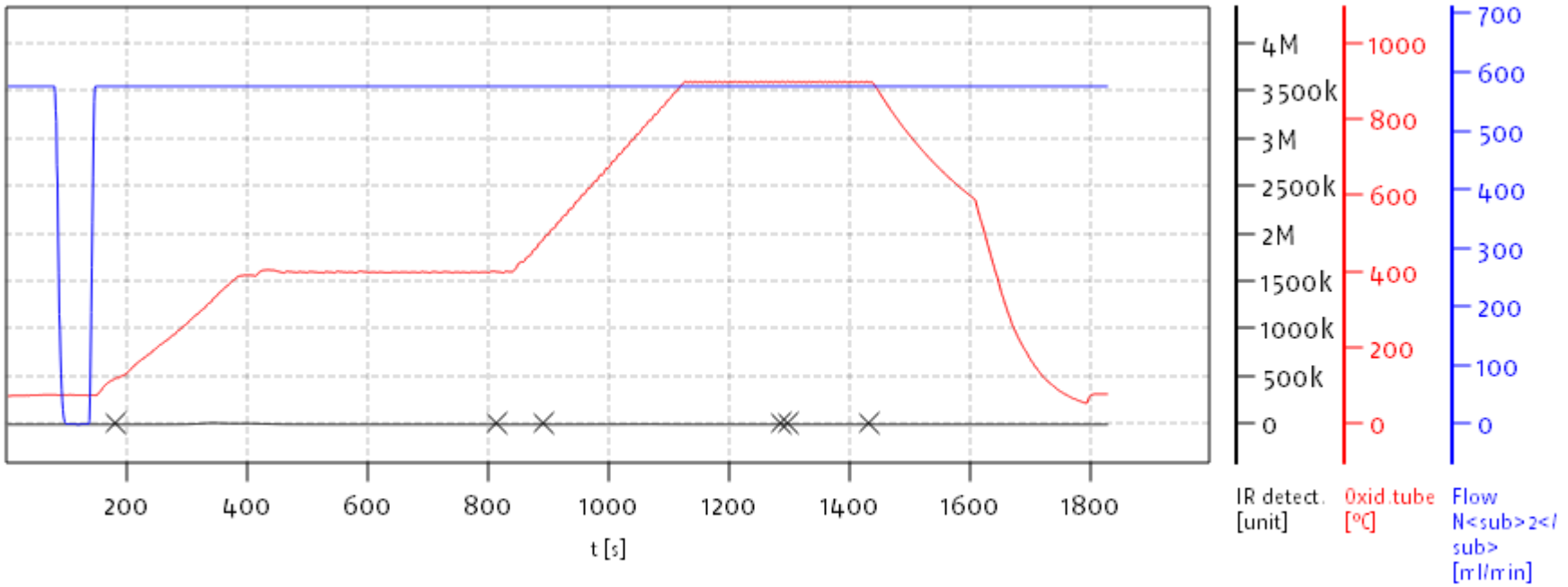
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SJH0417-CCB1	522.80		1.00	CARBON	9/1/2021 7:28 PM	0.013	0.000	0.013	bl,C2u	53 522	7 948	433	0.9836	1.0000



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Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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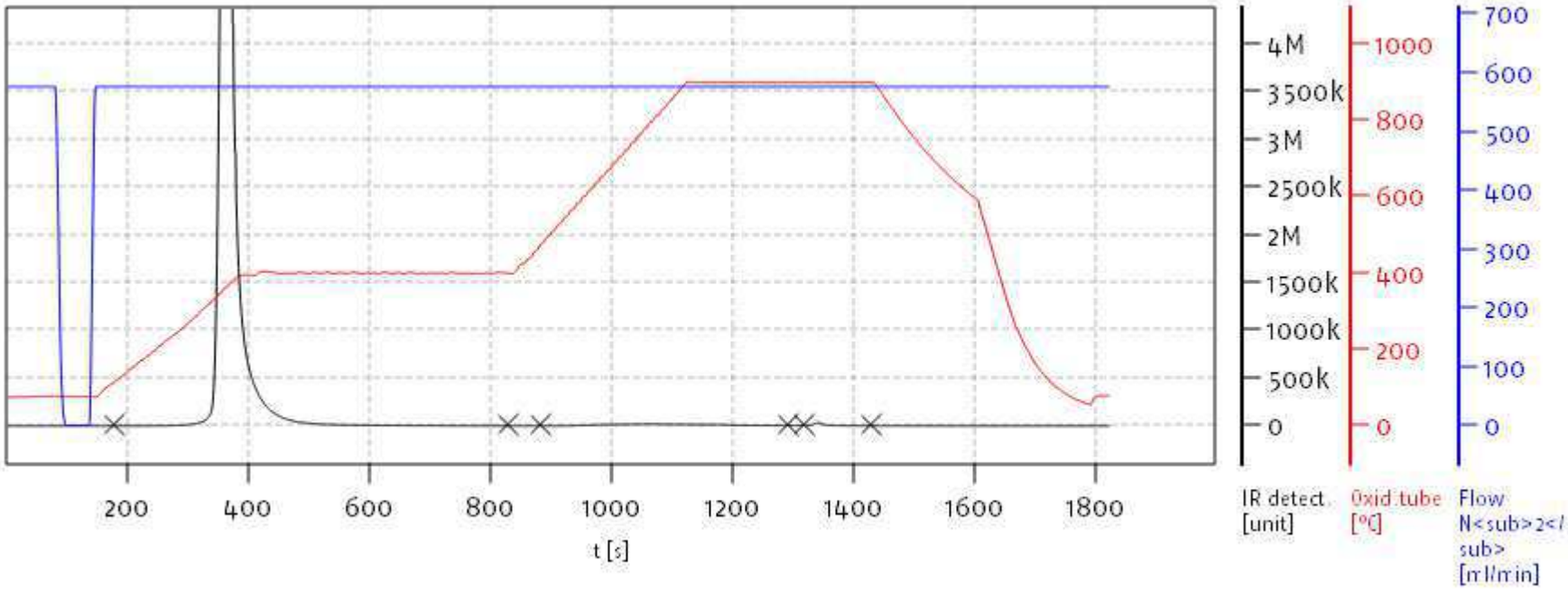
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	21H0301-11	522.80		1.00	CARBON	9/1/2021 7:59 PM	2.697	0.045	2.741	bl	8 481 430	150 326	28 066	0.9836	1.0000



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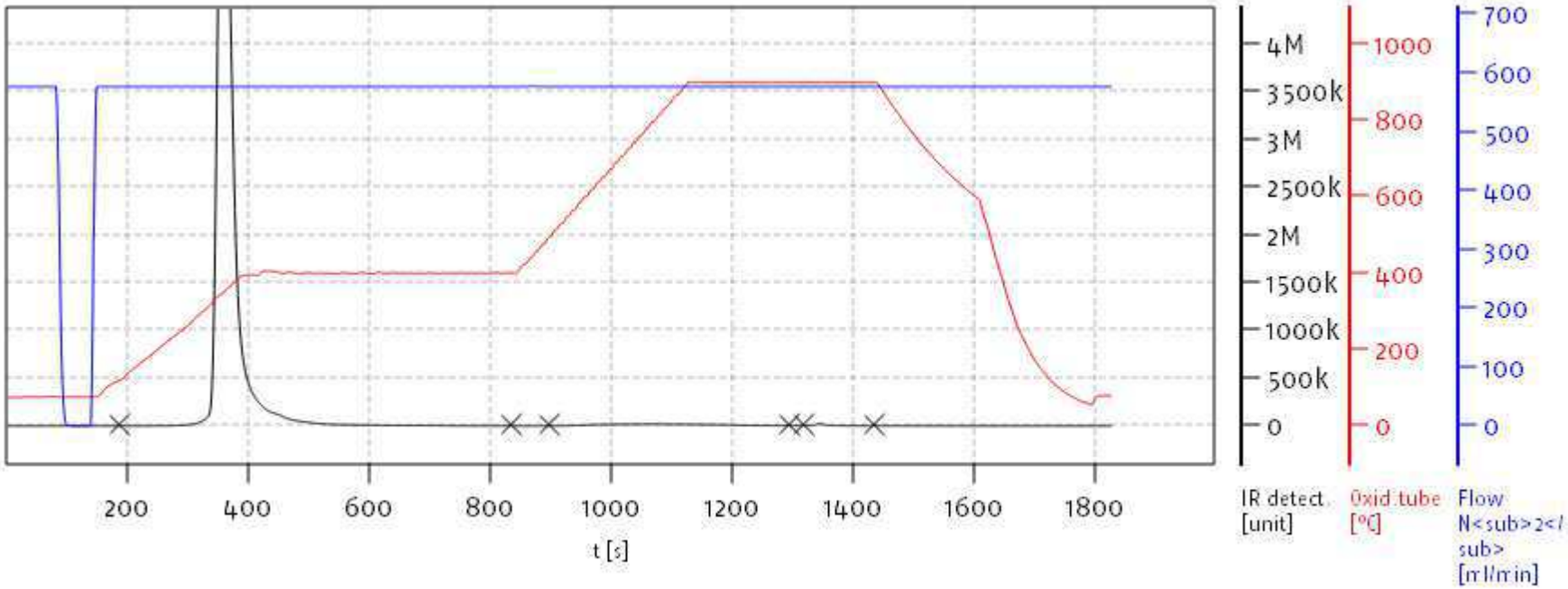
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	21H0301-12	521.60		1.00	CARBON	9/1/2021 8:30 PM	2.496	0.046	2.543	bl	7 840 130	155 027	21 532	0.9836	1.0000



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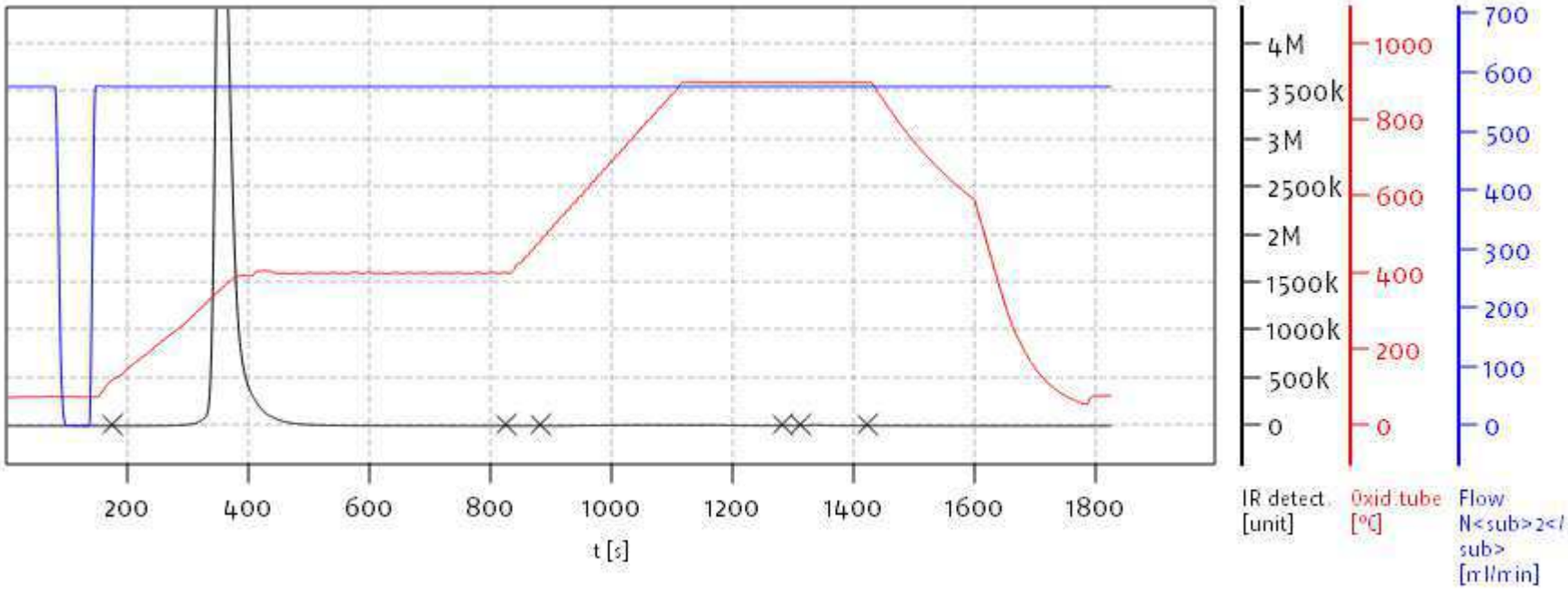
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	BJH0805-DUP1	585.20		1.00	CARBON	9/1/2021 9:00 PM	2.126	0.020	2.146	bl	7 496 130	80 357	15 307	0.9836	1.0000



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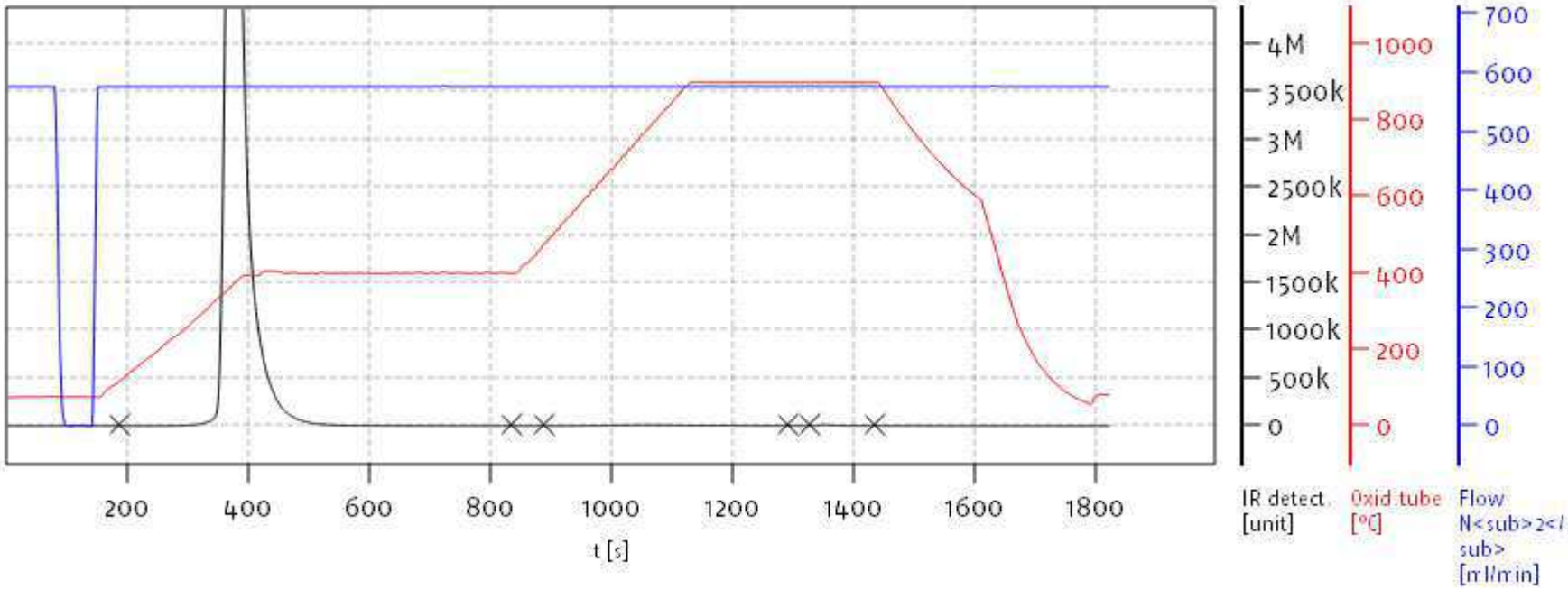
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	BJH0805-MS1	538.90	0.0104	1.00	CARBON	9/1/2021 9:31 PM	3.469	0.018	3.486	bl,C1o	11 258700	67 954	17 225	0.9836	1.0000



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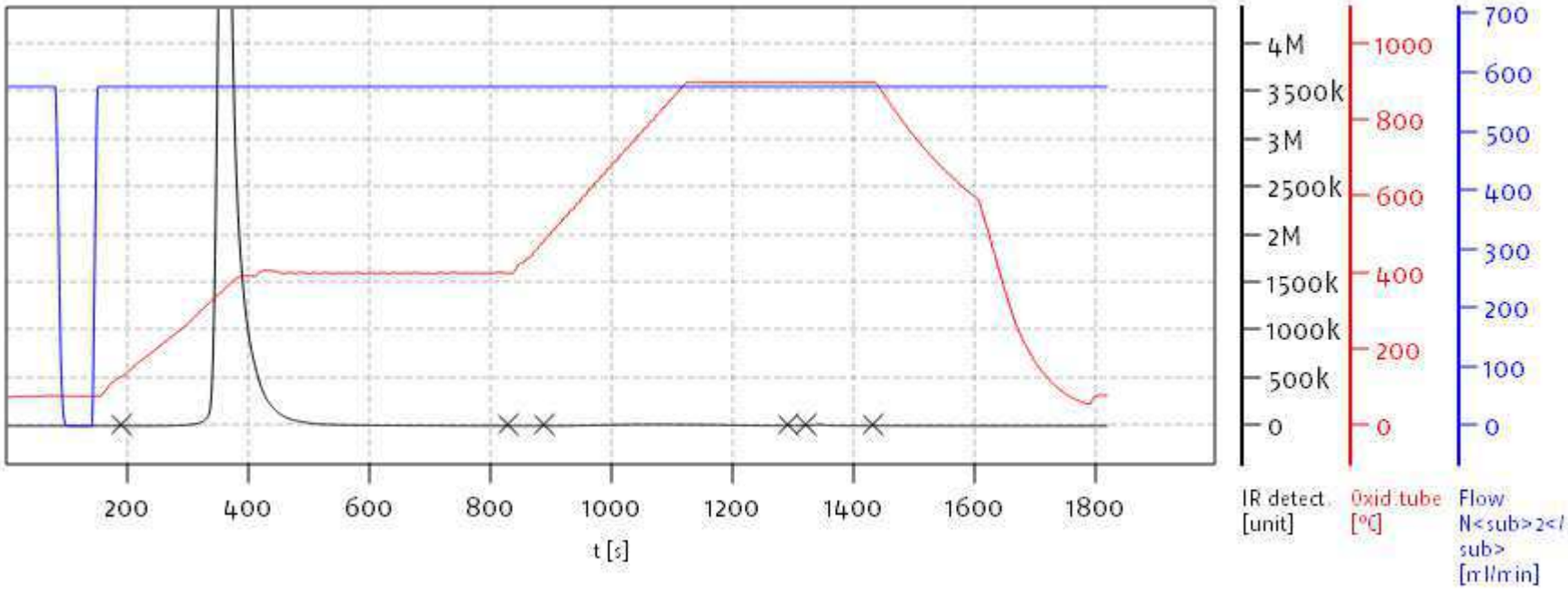
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	BJH0805-MSD1	544.10	0.0116	1.00	CARBON	9/1/2021 10:02 PM	2.993	0.035	3.028	bl,Co	9 808 310	124 456	16 672	0.9836	1.0000



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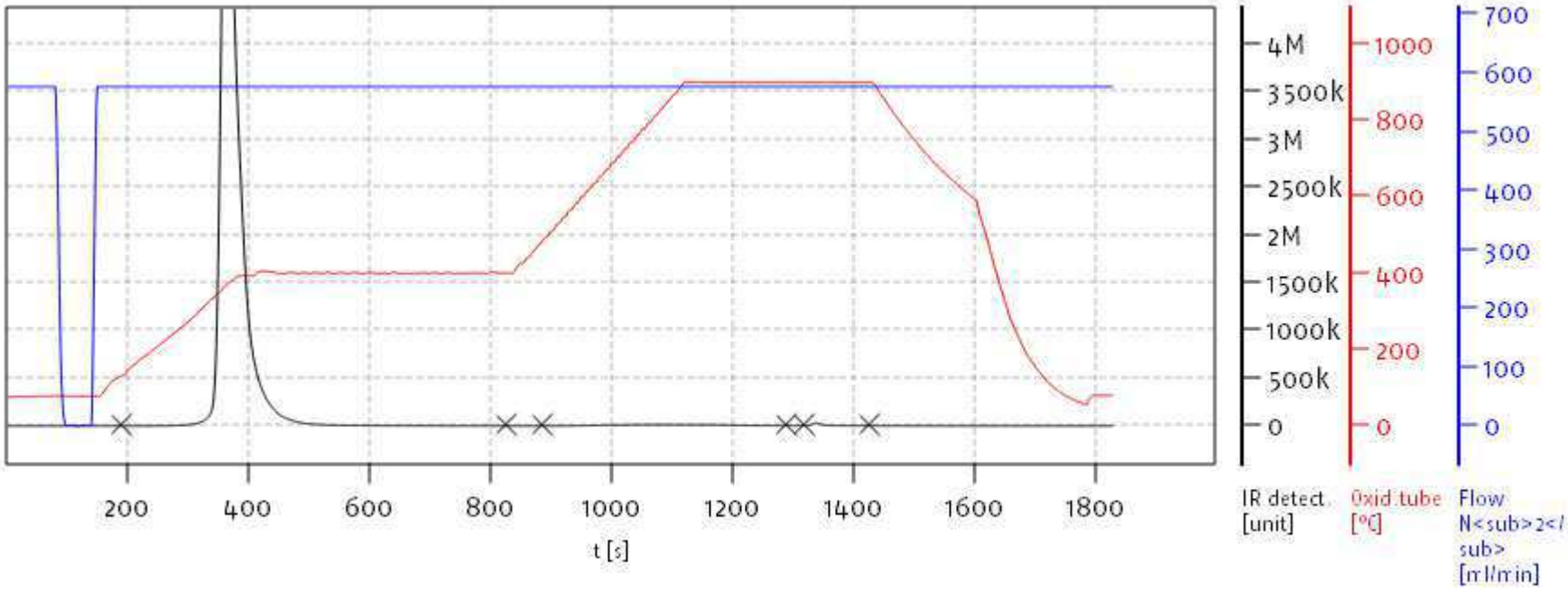
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	21H0301-17	540.20		1.00	CARBON	9/1/2021 10:33 PM	2.760	0.029	2.790	bl,Cl o	8 972 190	105 943	26 602	0.9836	1.0000



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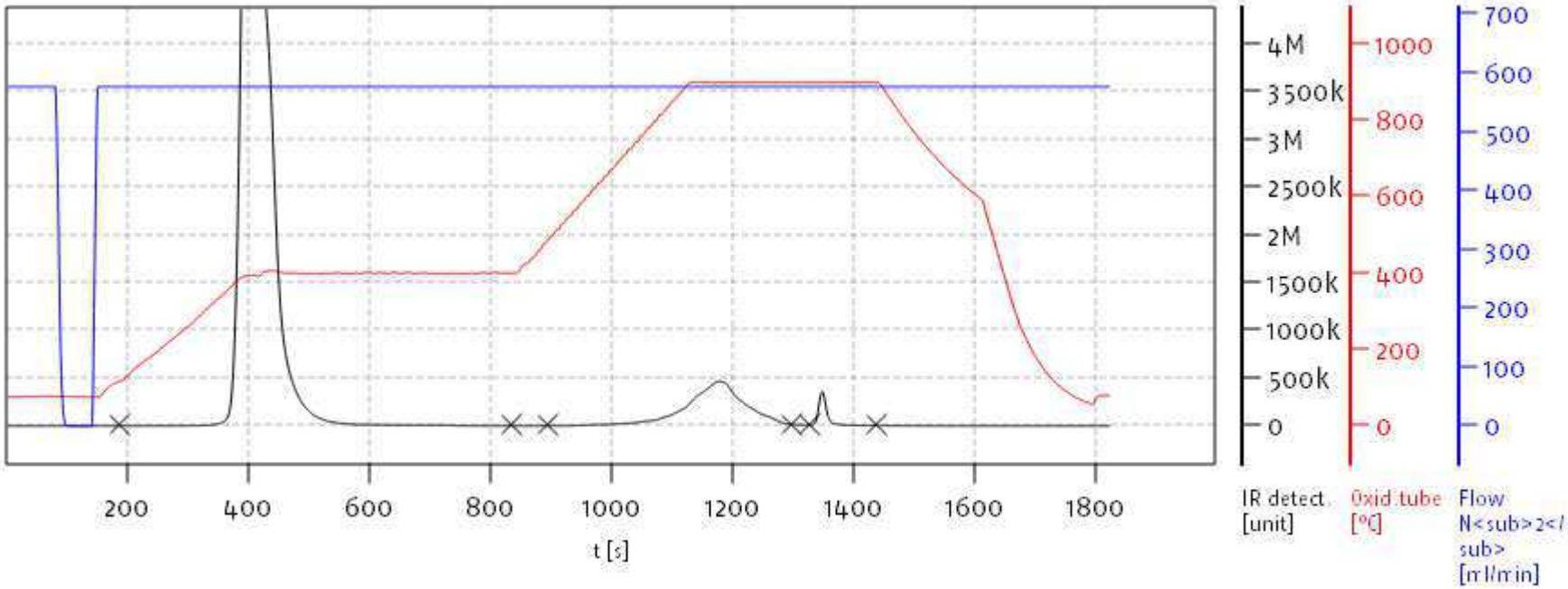
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	21H0321-01	523.00		1.00	CARBON	9/1/2021 11:04 PM	4.606	0.618	5.224	bl,C1o	14 301500	1 926 710	218 618	0.9836	1.0000



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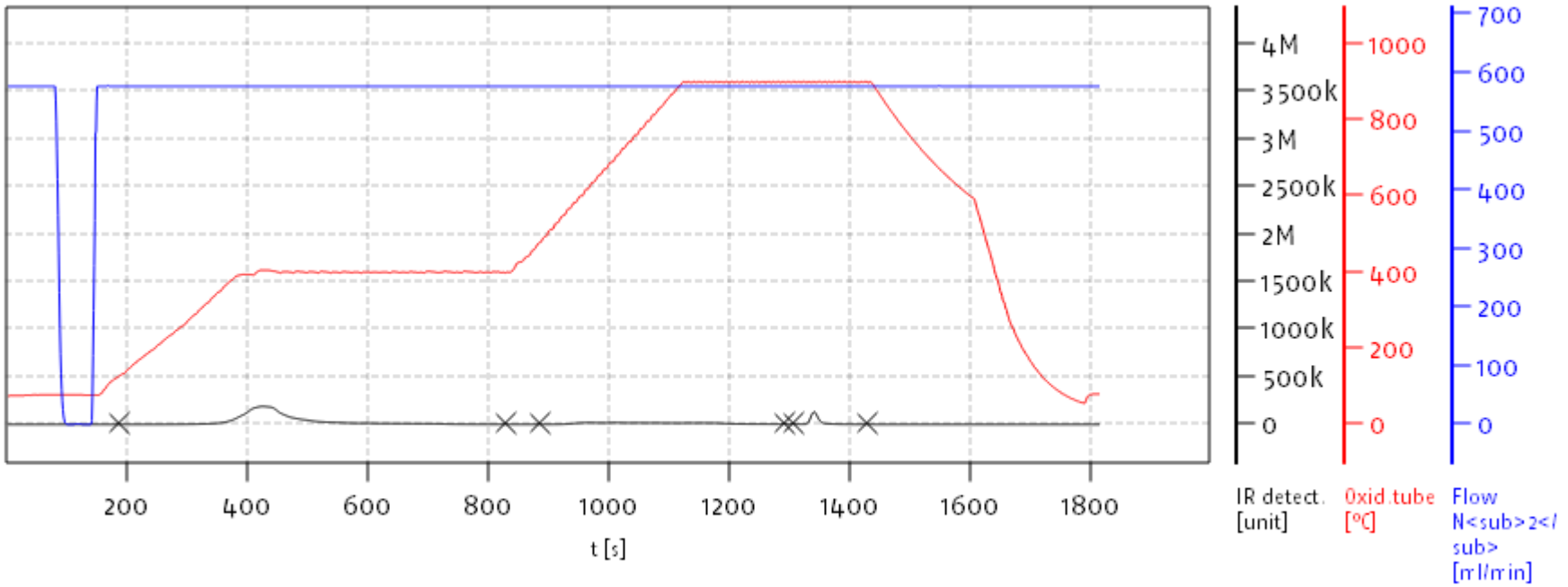
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	21H0321-03	517.60		1.00	CARBON	9/1/2021 11:34 PM	0.248	0.052	0.300	bl	714 743	170 381	79 981	0.9836	1.0000



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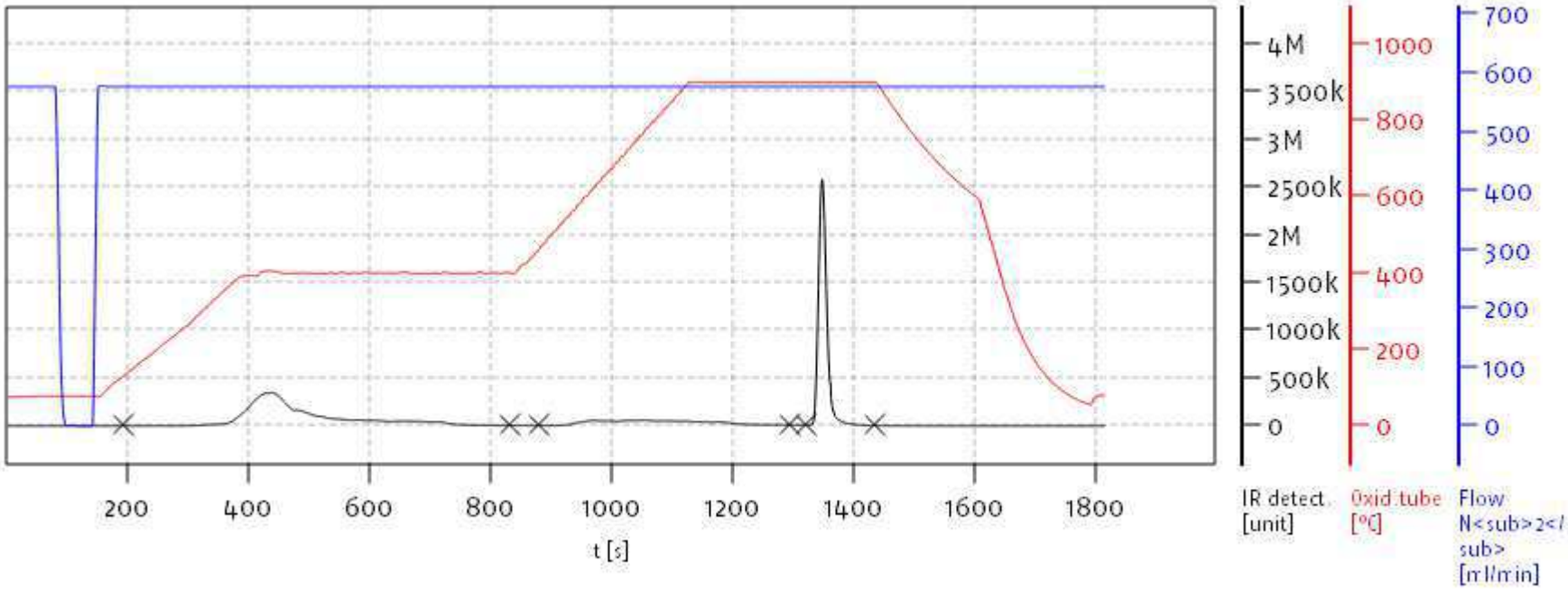
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	21H0321-05	609.40		1.00	CARBON	9/2/2021 12:05 AM	0.869	0.145	1.014	bl	1 637 500	534 090	1 549 410	0.9836	1.0000



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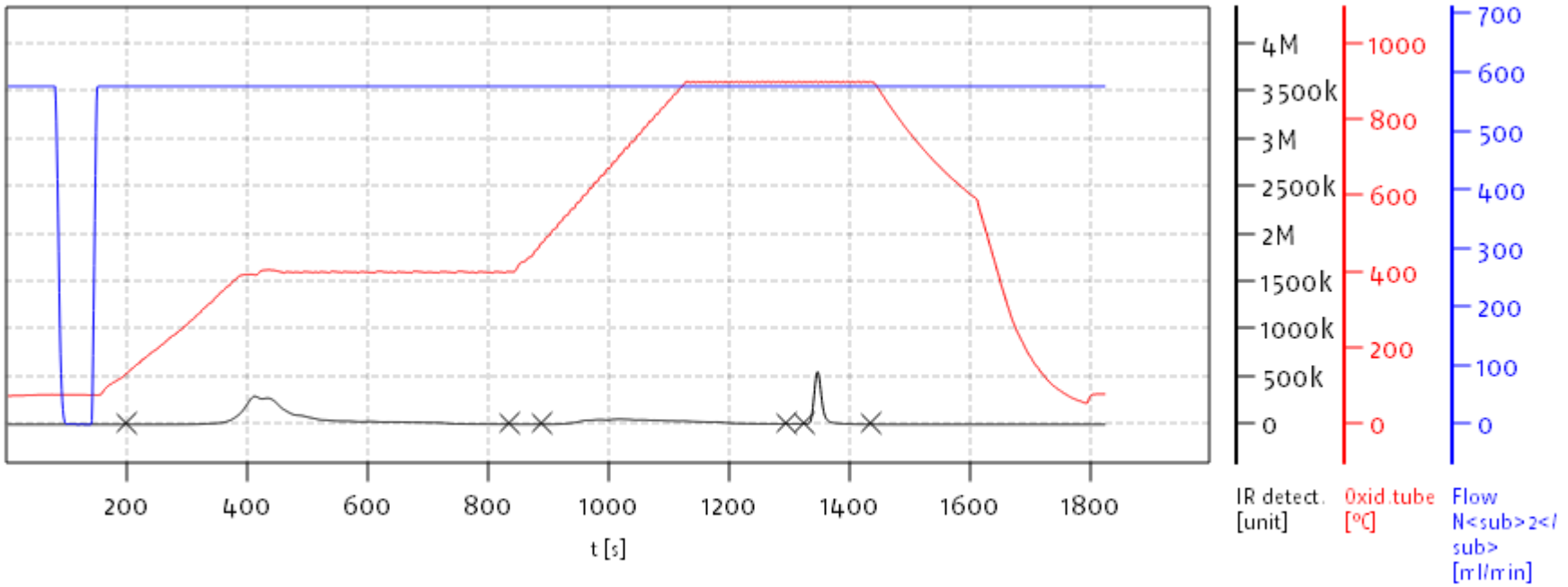
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	21H0321-07	525.20		1.00	CARBON	9/2/2021 12:36 AM	0.461	0.129	0.590	bl	1 162 470	412 583	313 081	0.9836	1.0000



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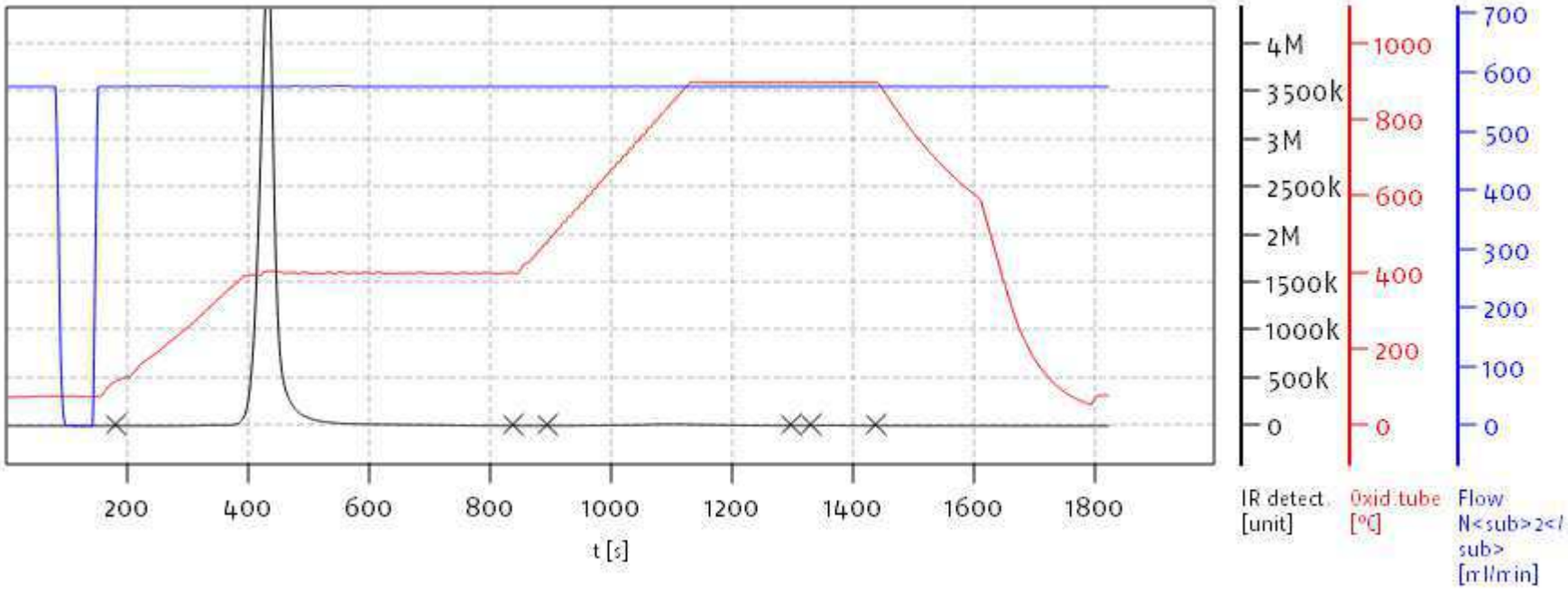
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	SJH0417-CCV2	20.40		1.00	CARBON	9/2/2021 1:07 AM	44.998	0.852	45.850	bl	5 535 420	114 604	13 625	0.9836	1.0000



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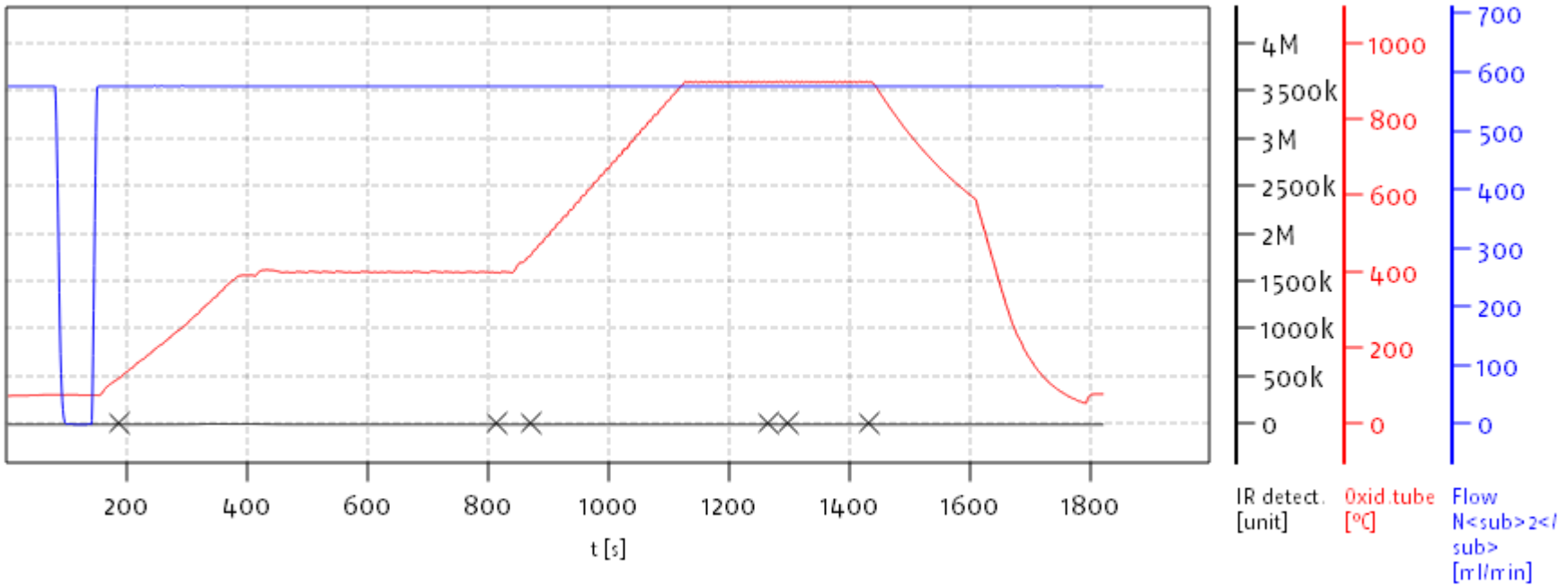
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	SJH0417-CCB2	512.80		1.00	CARBON	9/2/2021 1:37 AM	0.004	0.000	0.004	bl,C3u,C2u	24 219	1 399	345	0.9836	1.0000



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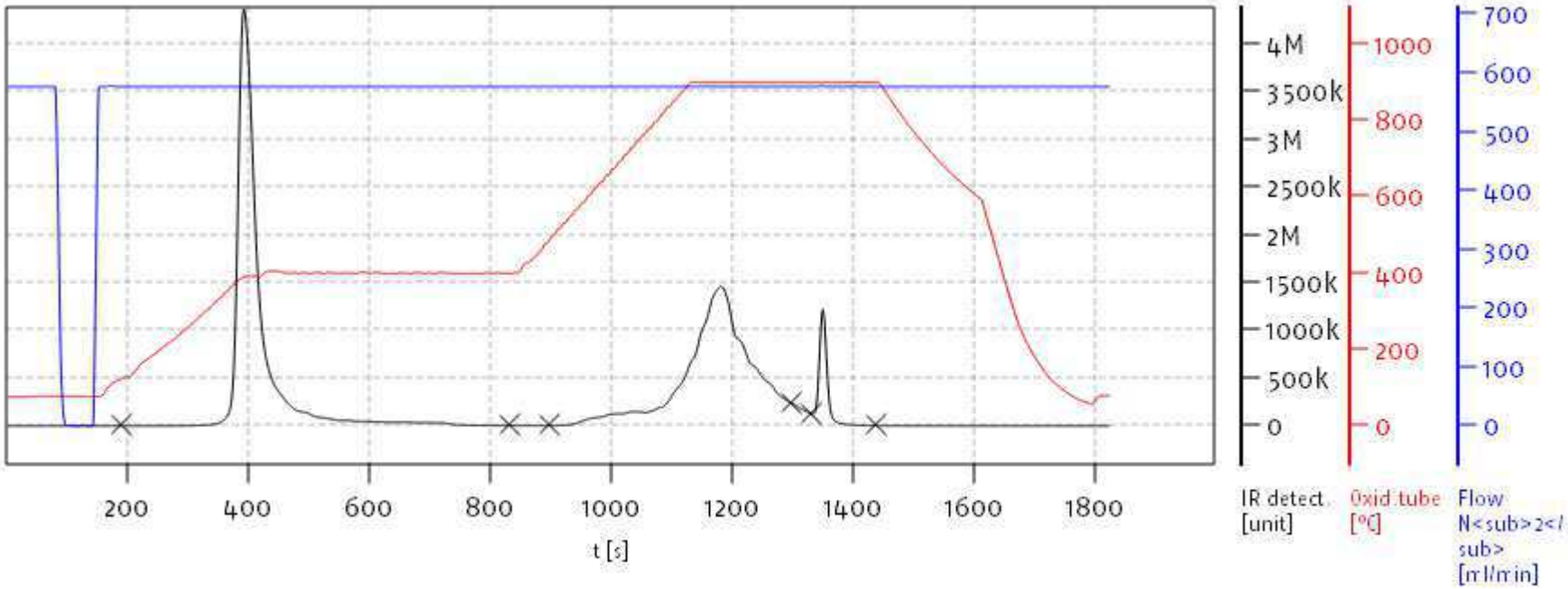
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	21H0321-09	524.90		1.00	CARBON	9/2/2021 2:08 AM	2.237	2.048	4.286	bl	6 364 930	6 378 240	715 512	0.9836	1.0000



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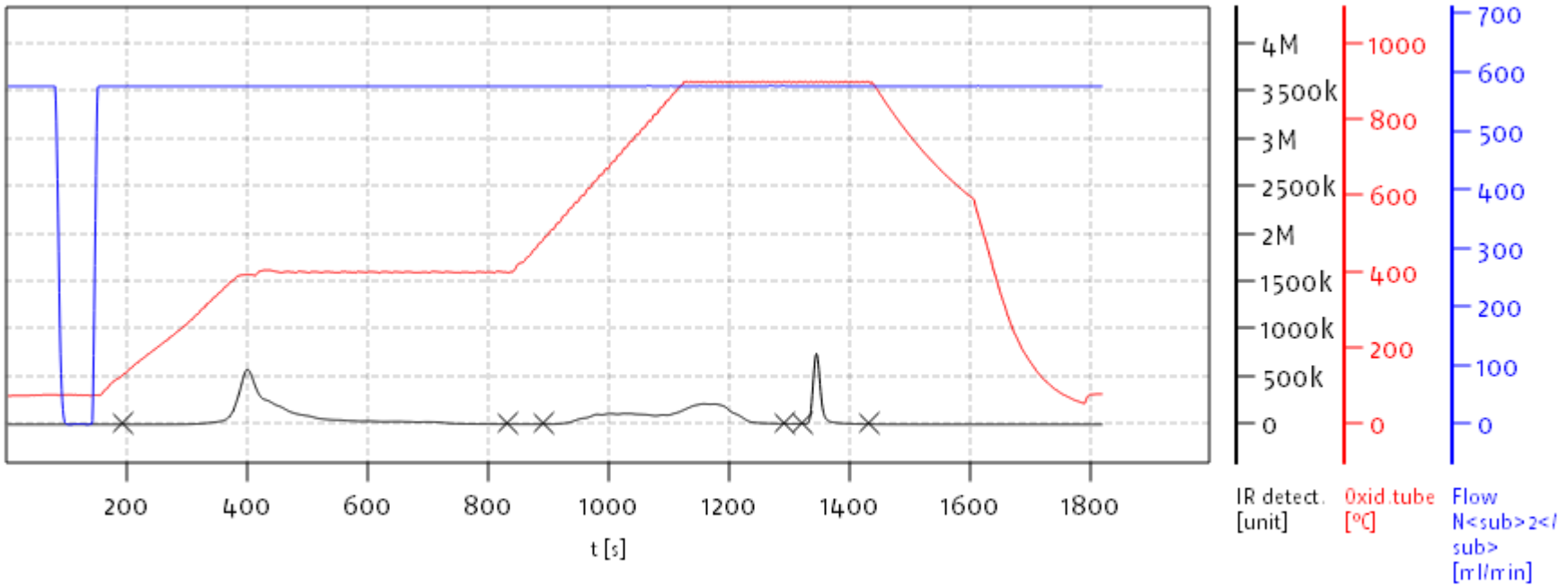
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	21H0321-11	377.50		1.00	CARBON	9/2/2021 2:39 AM	0.891	0.623	1.513	bl	1 619 210	1 403 380	421 601	0.9836	1.0000



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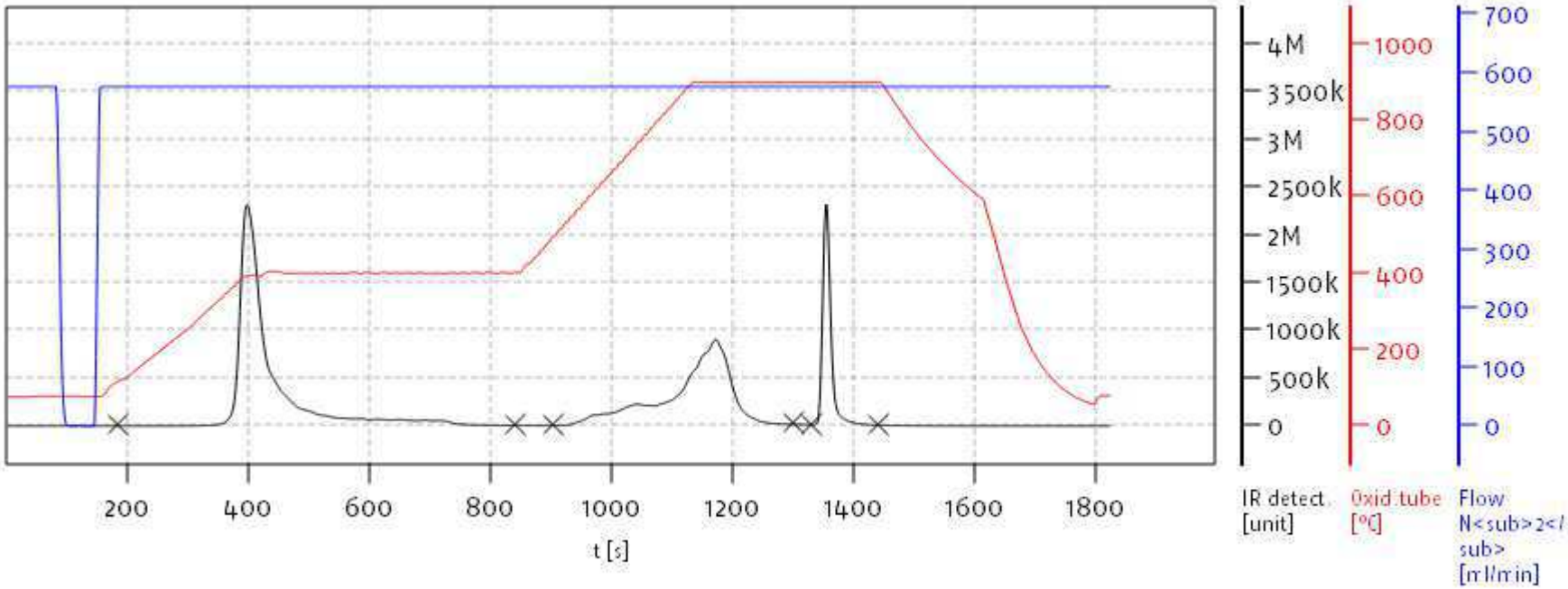
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
32	32	21H0321-13	513.10		1.00	CARBON	9/2/2021 3:10 AM	1.929	1.188	3.117	bl	4 568 090	3 619 720	1 390 500	0.9836	1.0000



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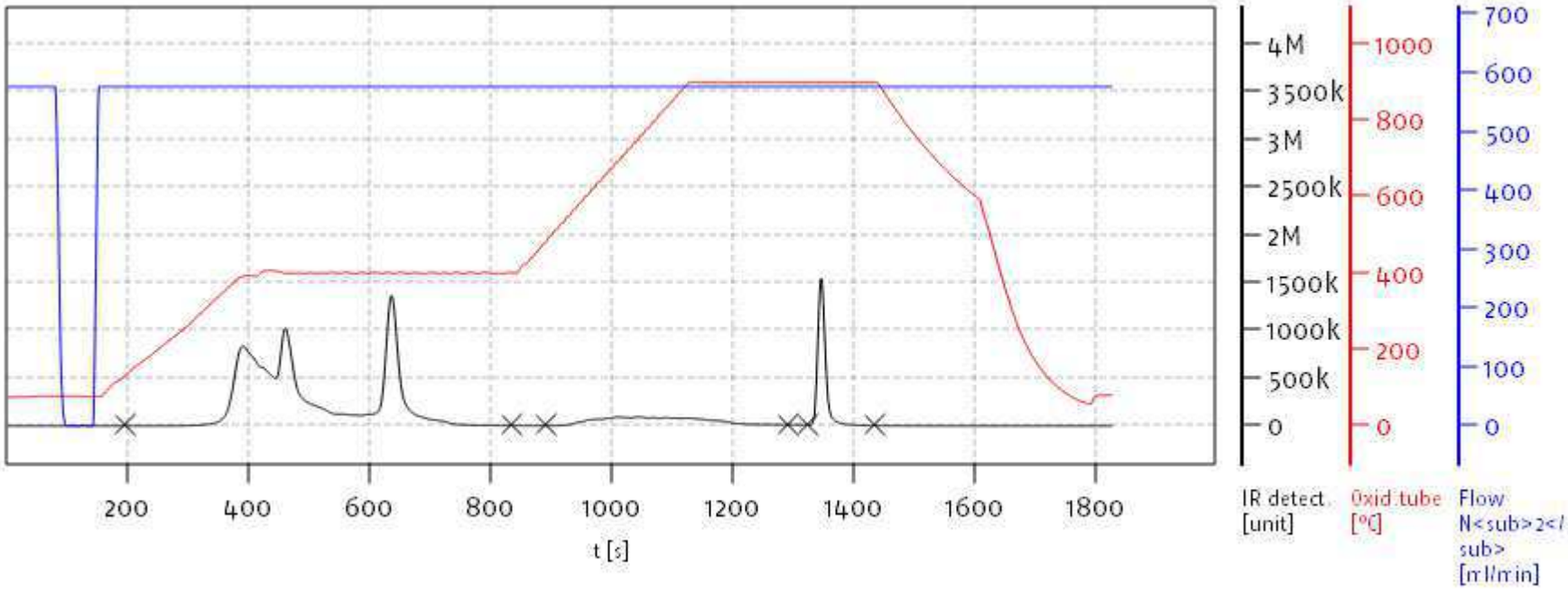
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
33	33	21H0321-15	554.90		1.00	CARBON	9/2/2021 3:41 AM	1.811	0.233	2.044	bl	5 190 940	776 799	867 539	0.9836	1.0000



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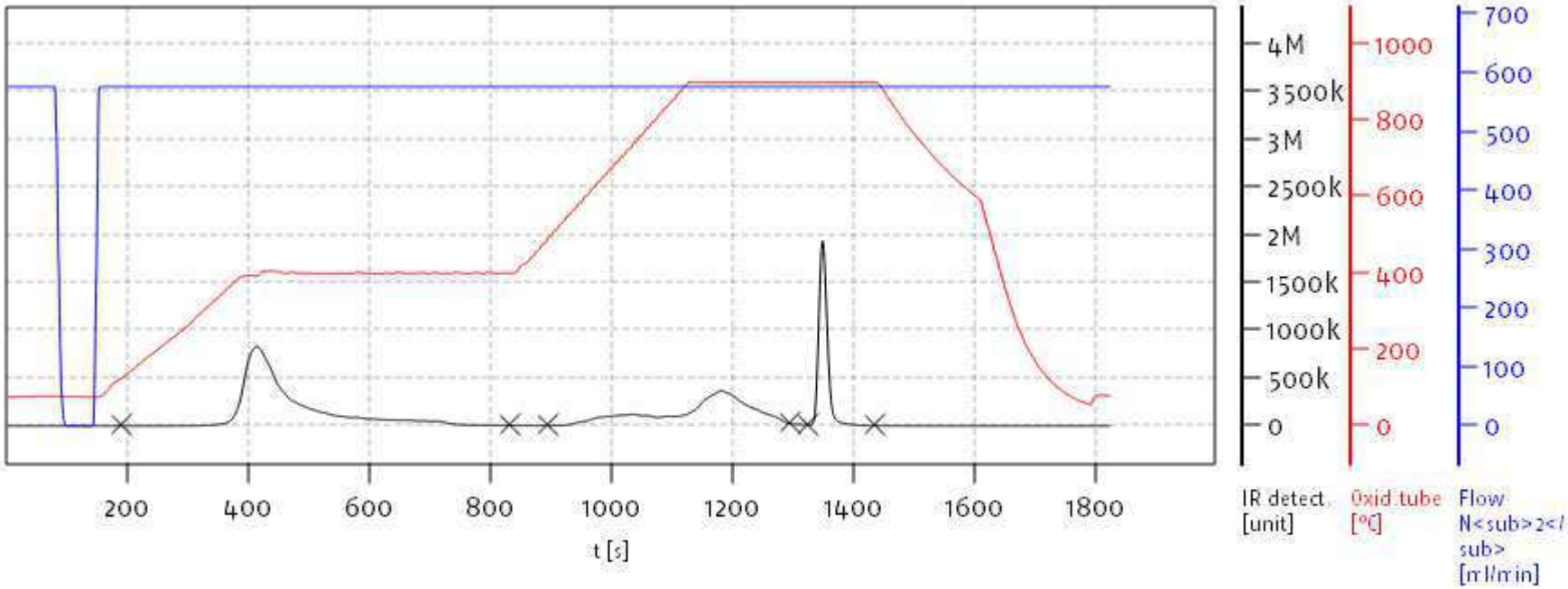
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
34	34	BJH0805-DUP2	533.60		1.00	CARBON	9/2/2021 4:11 AM	1.269	0.628	1.898	bl	2 884 130	1 997 060	1 196 010	0.9836	1.0000



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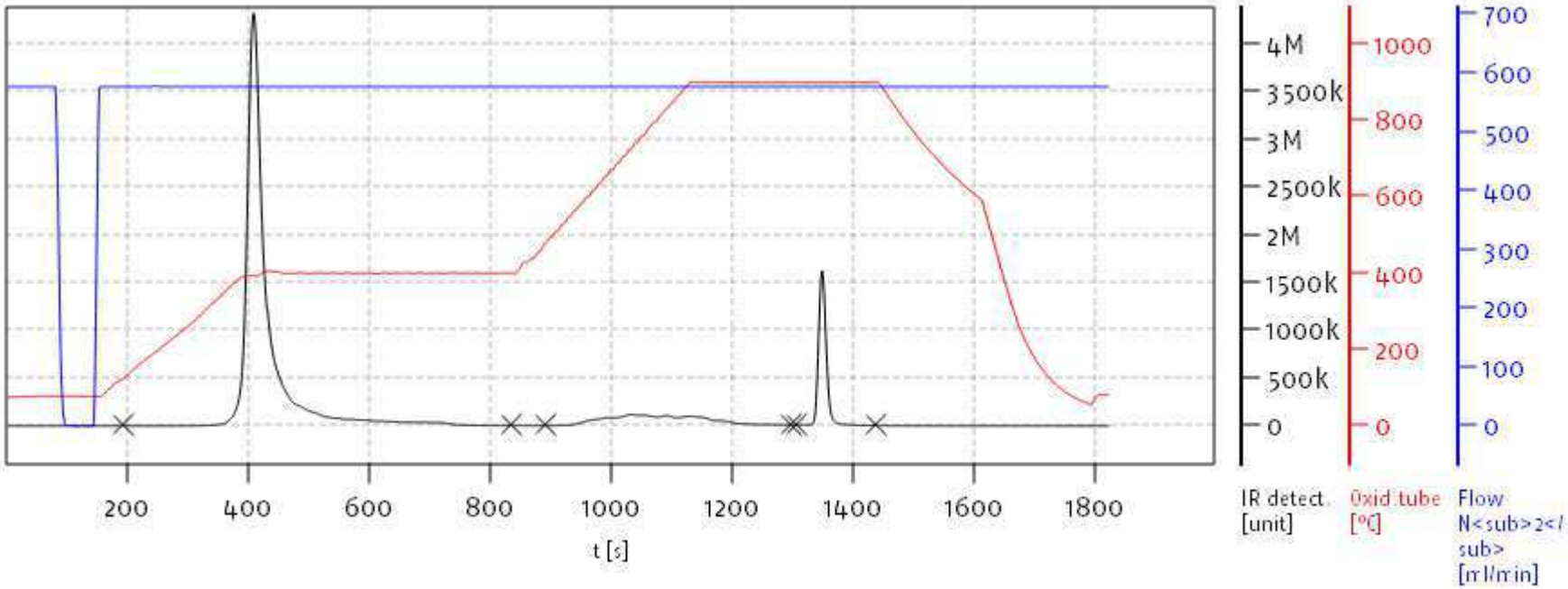
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
35	35	BJH0805-MS2	353.70	0.0111	1.00	CARBON	9/2/2021 4:42 AM	3.202	0.412	3.614	bl	5 911 260	874 764	915 204	0.9836	1.0000



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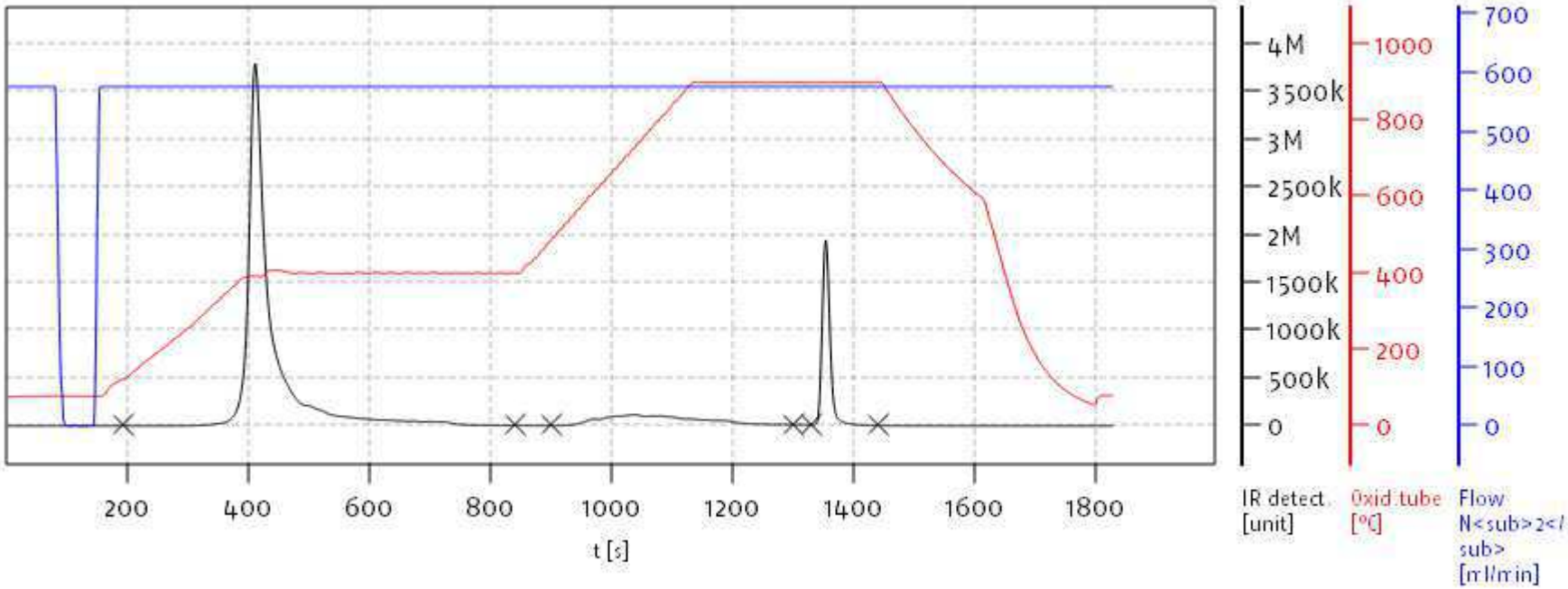
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
36	36	BJH0805-MSD2	535.10	0.0097	1.00	CARBON	9/2/2021 5:13 AM	2.133	0.267	2.401	bl	5 768 650	858 105	1 108 370	0.9836	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

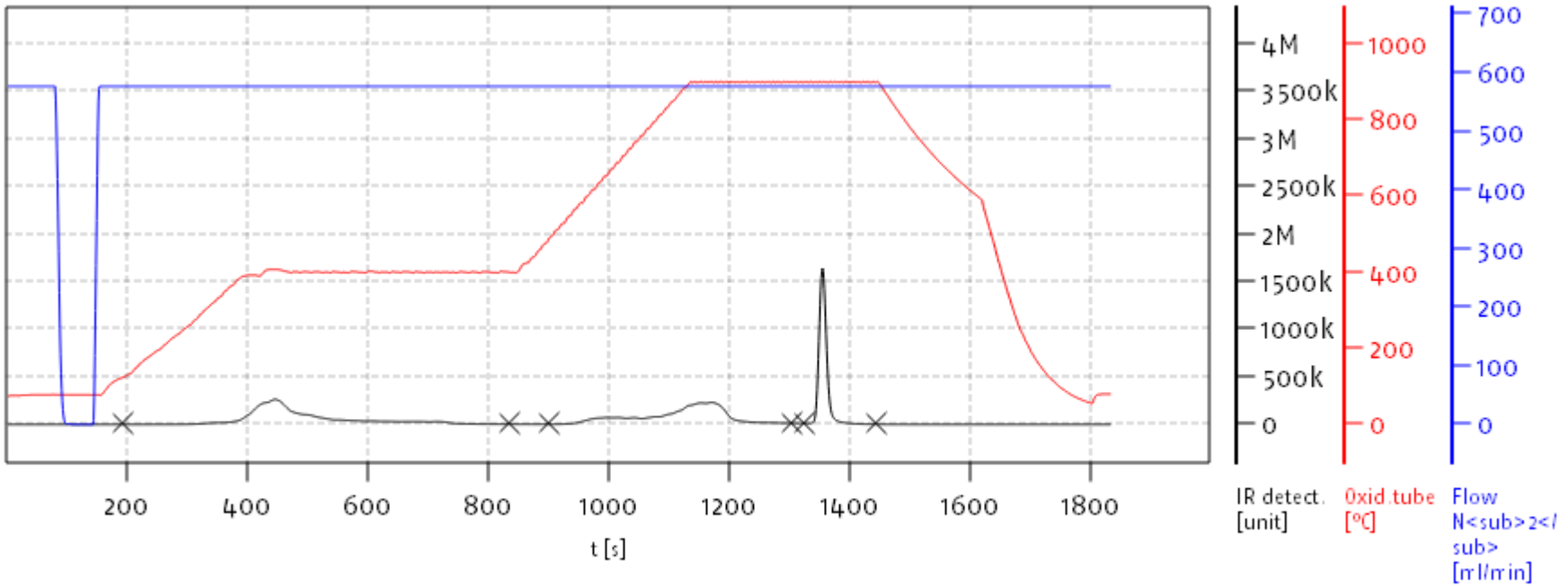
elementar
EXCELLENCE IN ELEMENTS

Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
37	37	21H0321-17	526.40		1.00	CARBON	9/2/2021 5:44 AM	0.641	0.375	1.016	bl	1 130 960	1 180 020	907 704	0.9836	1.0000



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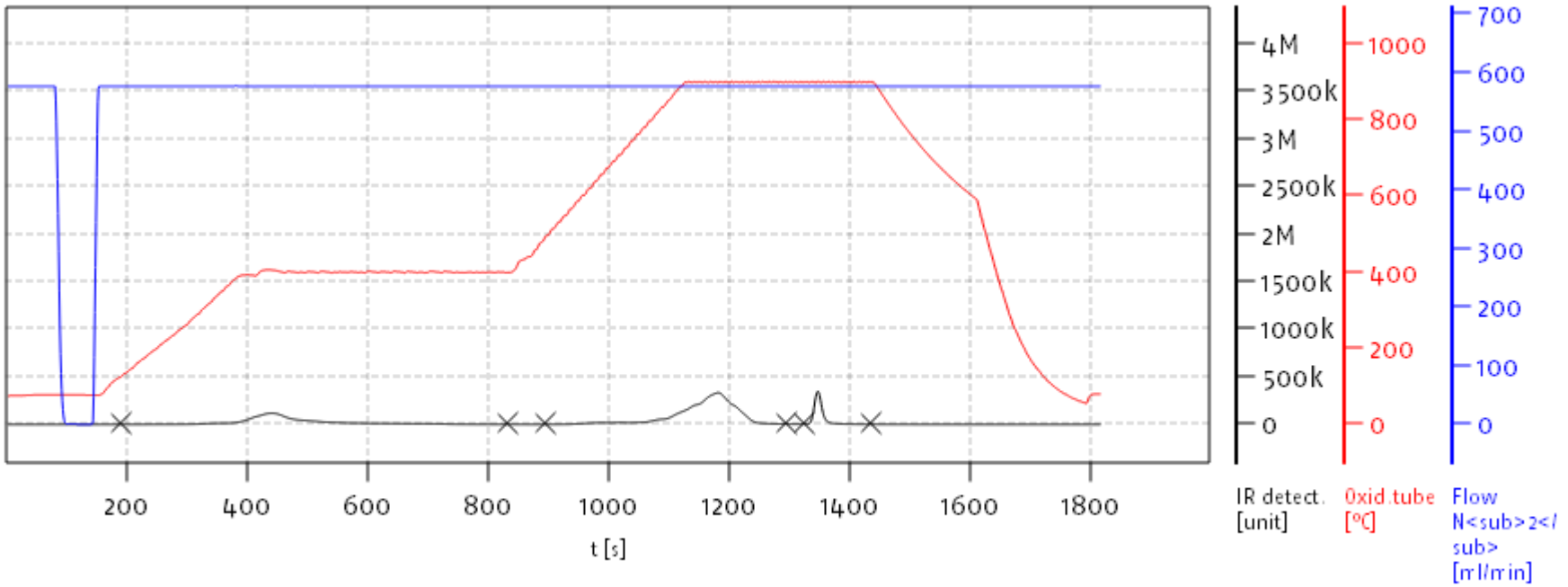
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
38	38	21H0321-19	587.10		1.00	CARBON	9/2/2021 6:15 AM	0.188	0.333	0.521	bl	480 507	1 170 590	202 698	0.9836	1.0000



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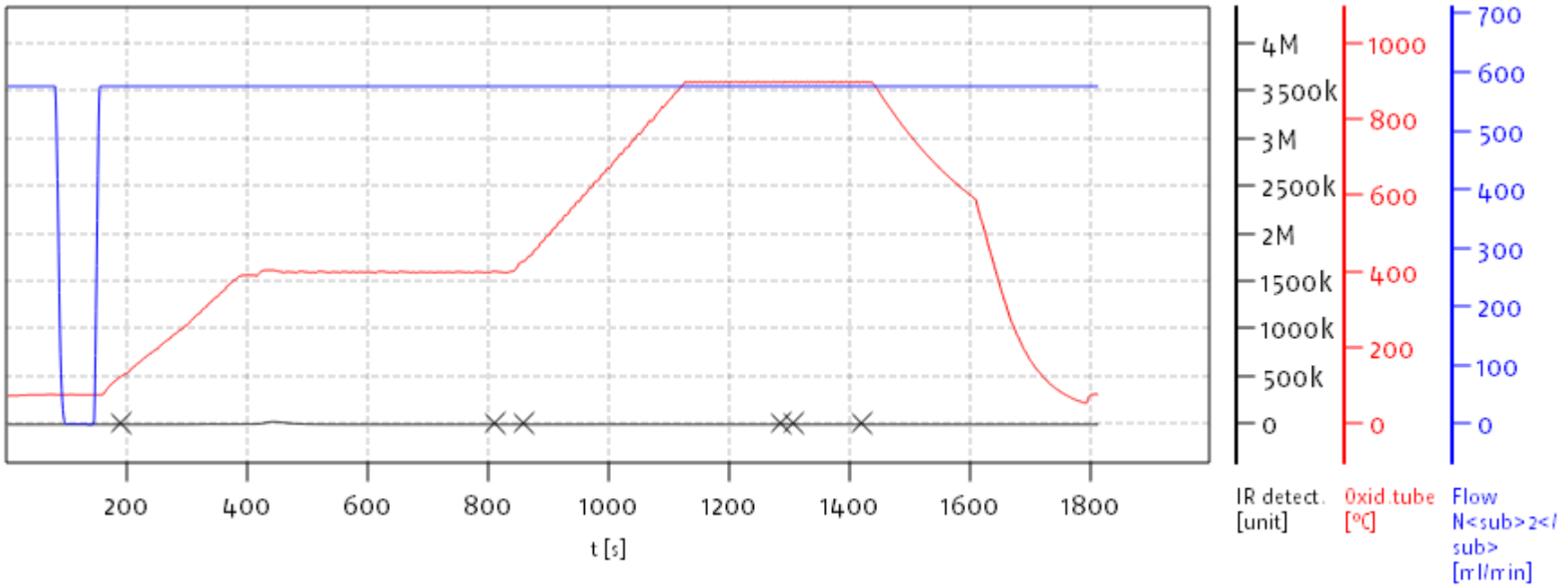
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
39	39	BJH0806-MRL1	522.50		1.00	CARBON	9/2/2021 6:45 AM	0.016	0.000	0.016	bl,C3u,C2u	63 361	6 237	430	0.9836	1.0000



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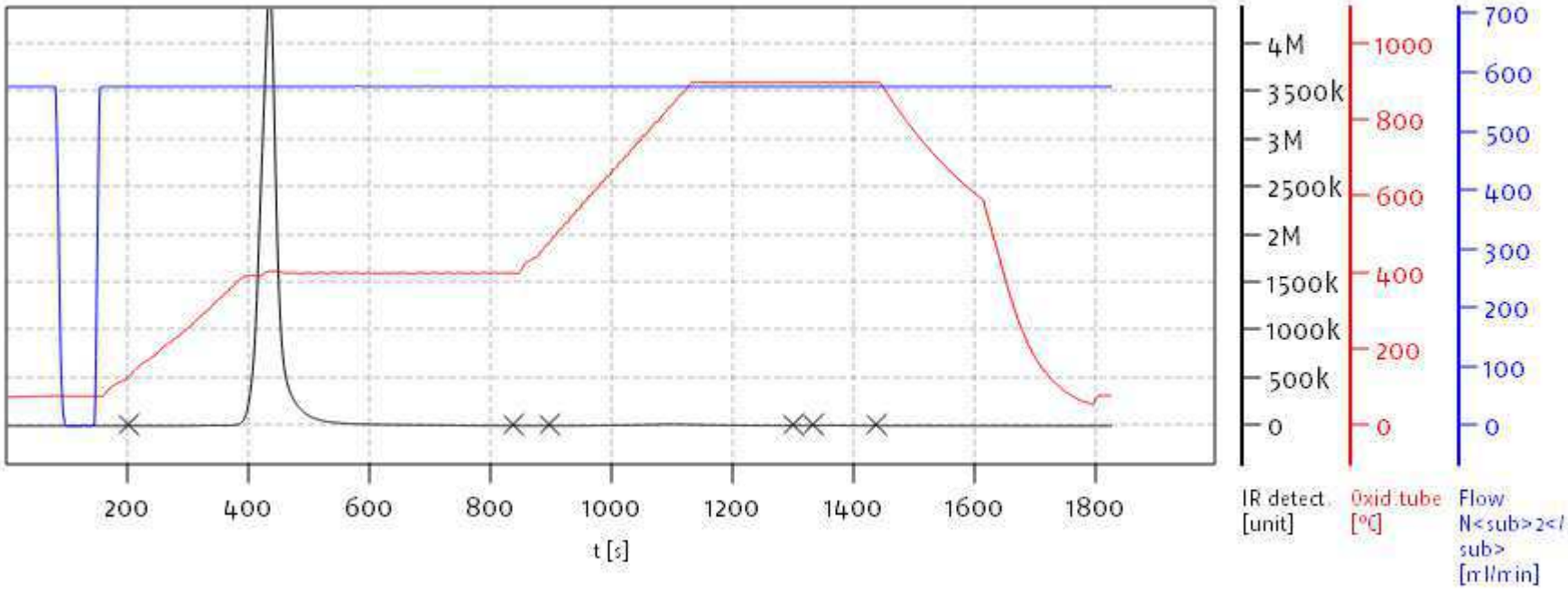
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
40	40	SJH0417-CCV3	20.70		1.00	CARBON	9/2/2021 7:16 AM	45.042	0.758	45.800	bl	5 621 860	104 600	13 930	0.9836	1.0000



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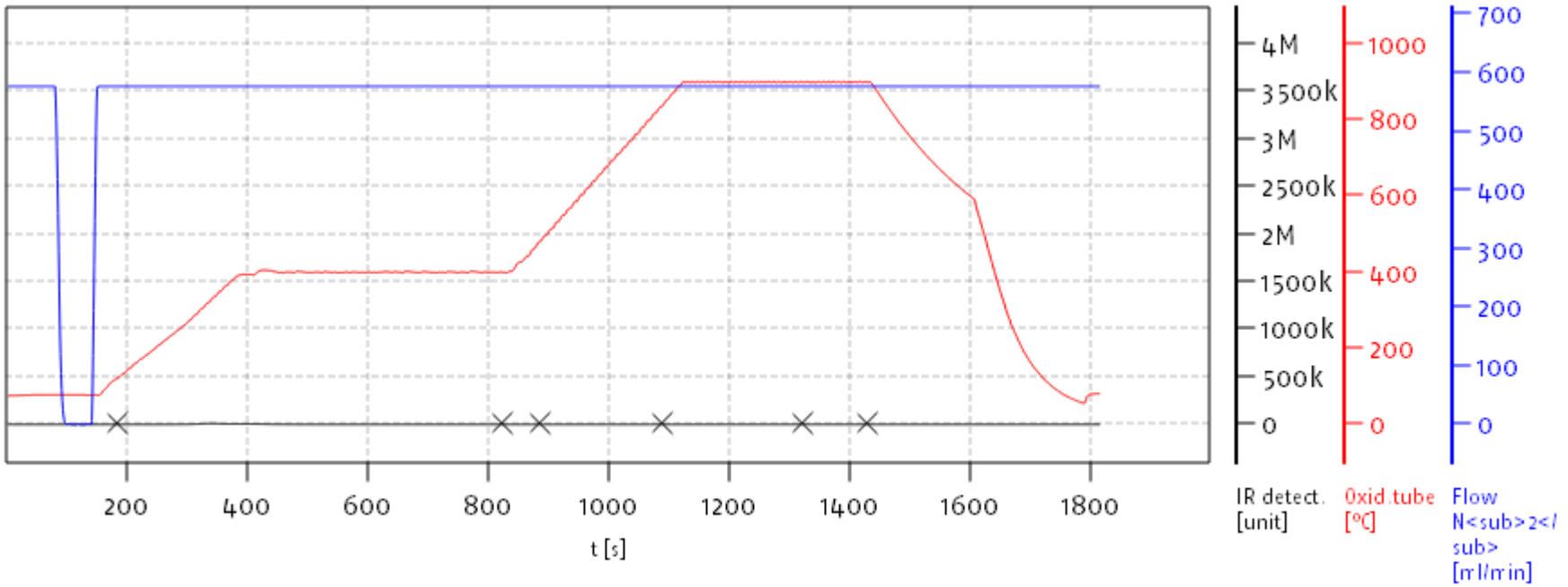
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
41	41	SJH0417-CCB3	525.90		1.00	CARBON	9/2/2021 7:47 AM	0.007	0.000	0.007	bl,C3u,C2u	32 311	986	414	0.9836	1.0000



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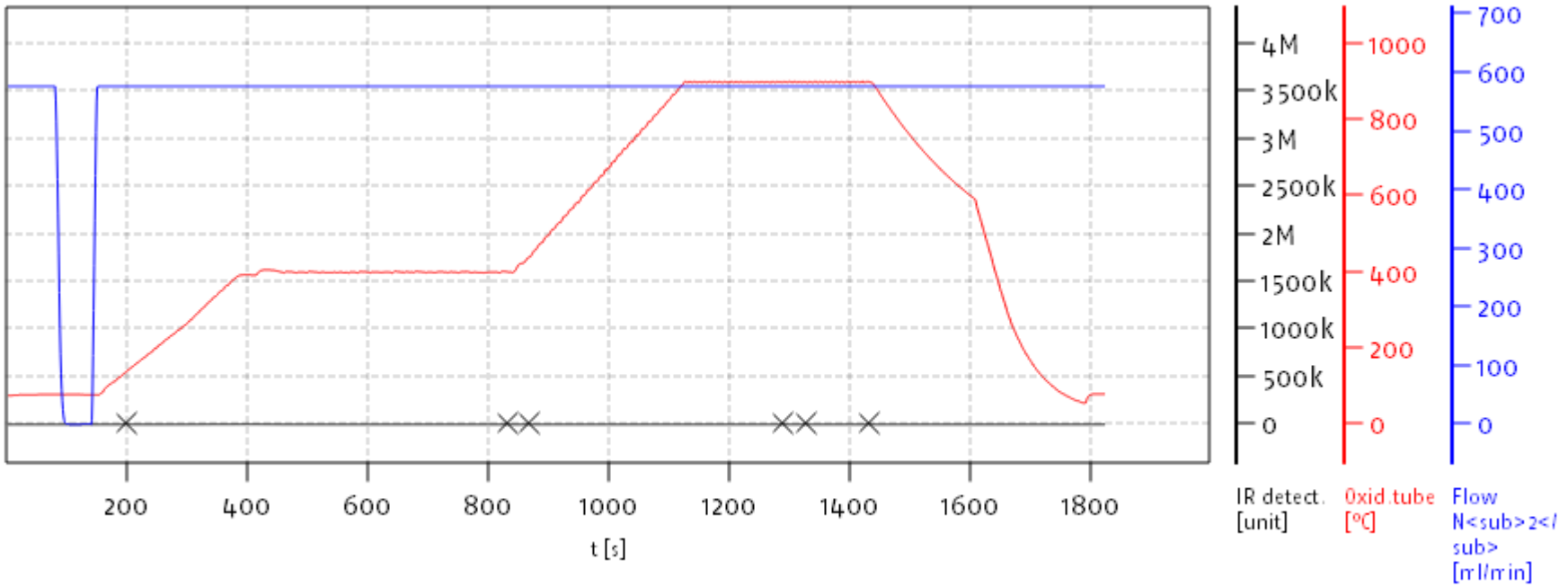
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
42	42	BJH0806-BLK1	549.90		1.00	CARBON	9/2/2021 8:18 AM	0.000	0.000	0.000	bl,C3u,C2u	9 719	1 723	472	0.9836	1.0000



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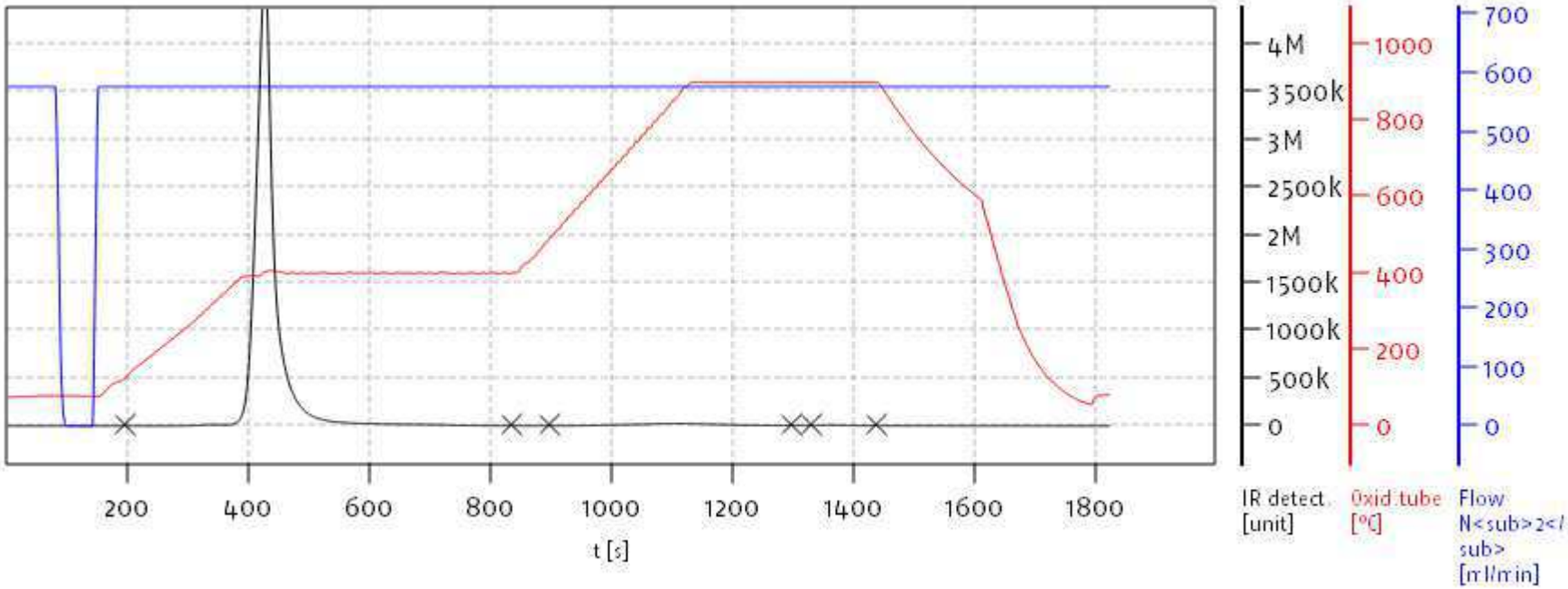
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
43	43	BJH0806-BS1	23.10		1.00	CARBON	9/2/2021 8:49 AM	44.876	1.142	46.018	bl	6 243 940	167 834	19 475	0.9836	1.0000



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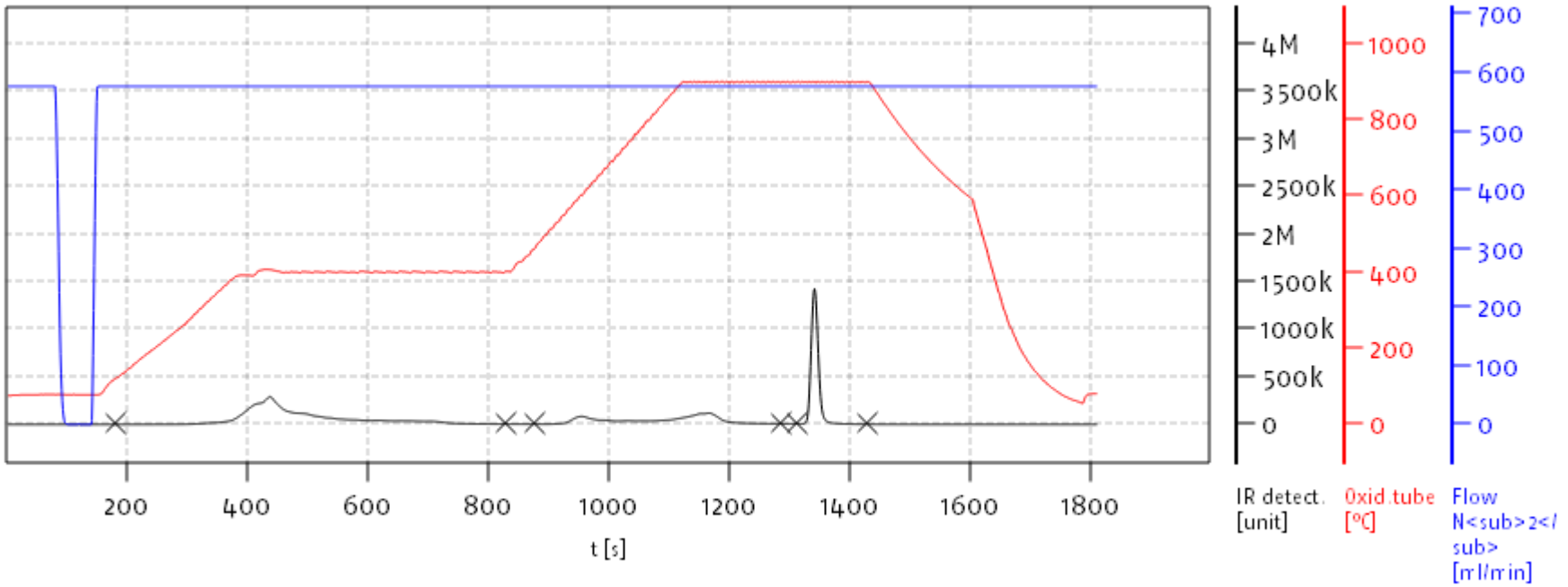
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
44	44	21H0321-21	534.10		1.00	CARBON	9/2/2021 9:19 AM	0.619	0.197	0.817	bl	1 255 020	636 223	747 033	0.9836	1.0000



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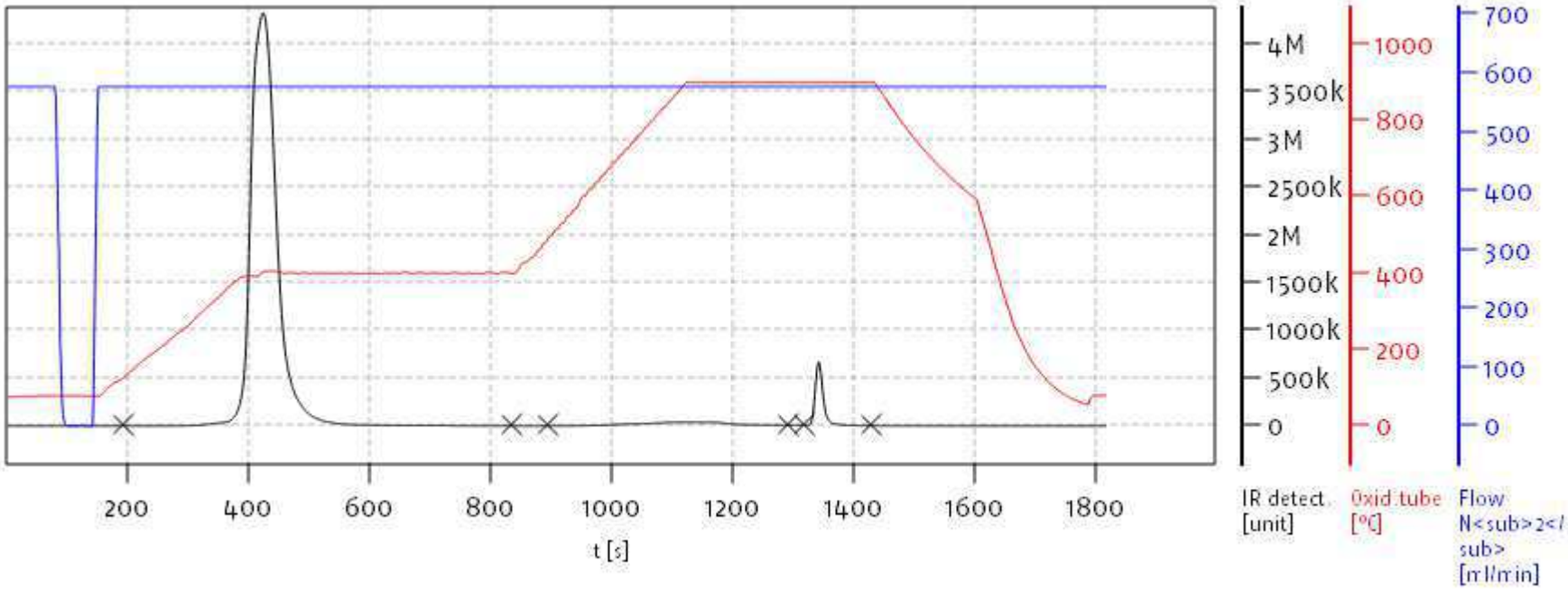
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
45	45	21H0321-23	525.50		1.00	CARBON	9/2/2021 9:50 AM	2.656	0.081	2.737	bl	8 028 750	263 291	391 546	0.9836	1.0000



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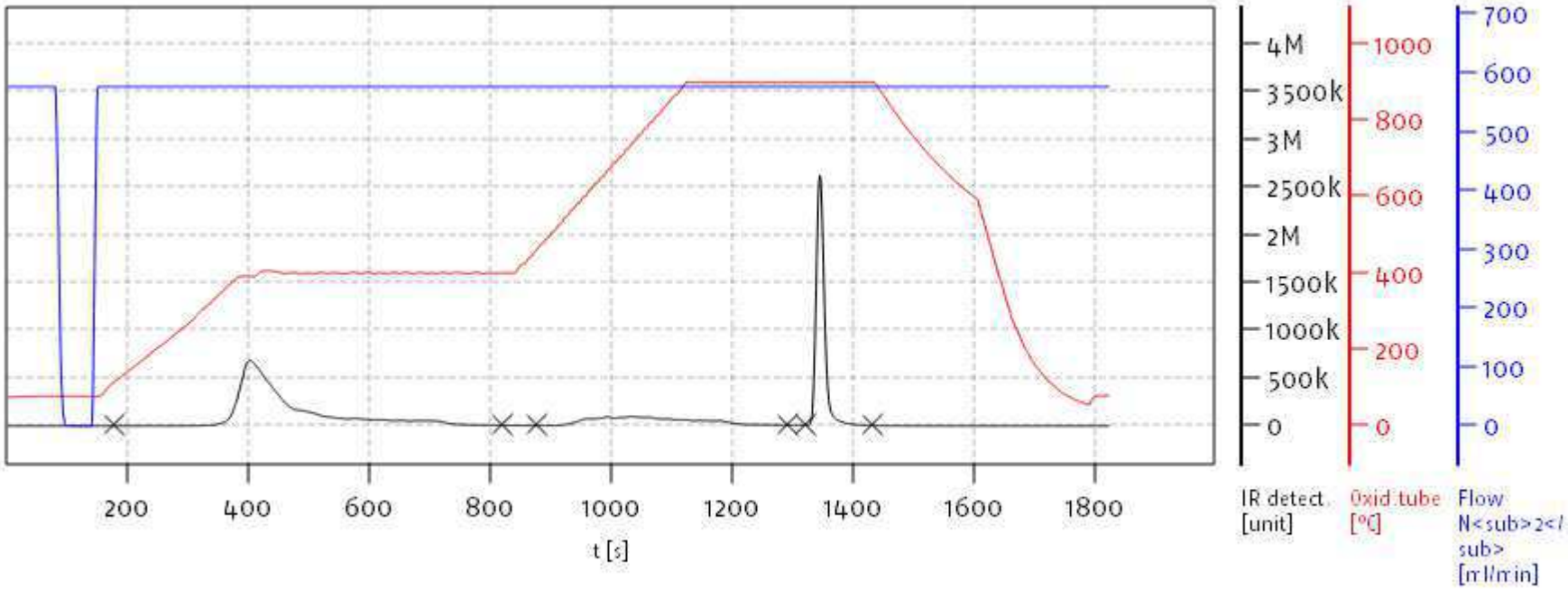
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
46	46	21H0321-25	511.80		1.00	CARBON	9/2/2021 10:21 AM	1.308	0.246	1.553	bl	2 463 410	755 802	1 563 360	0.9836	1.0000



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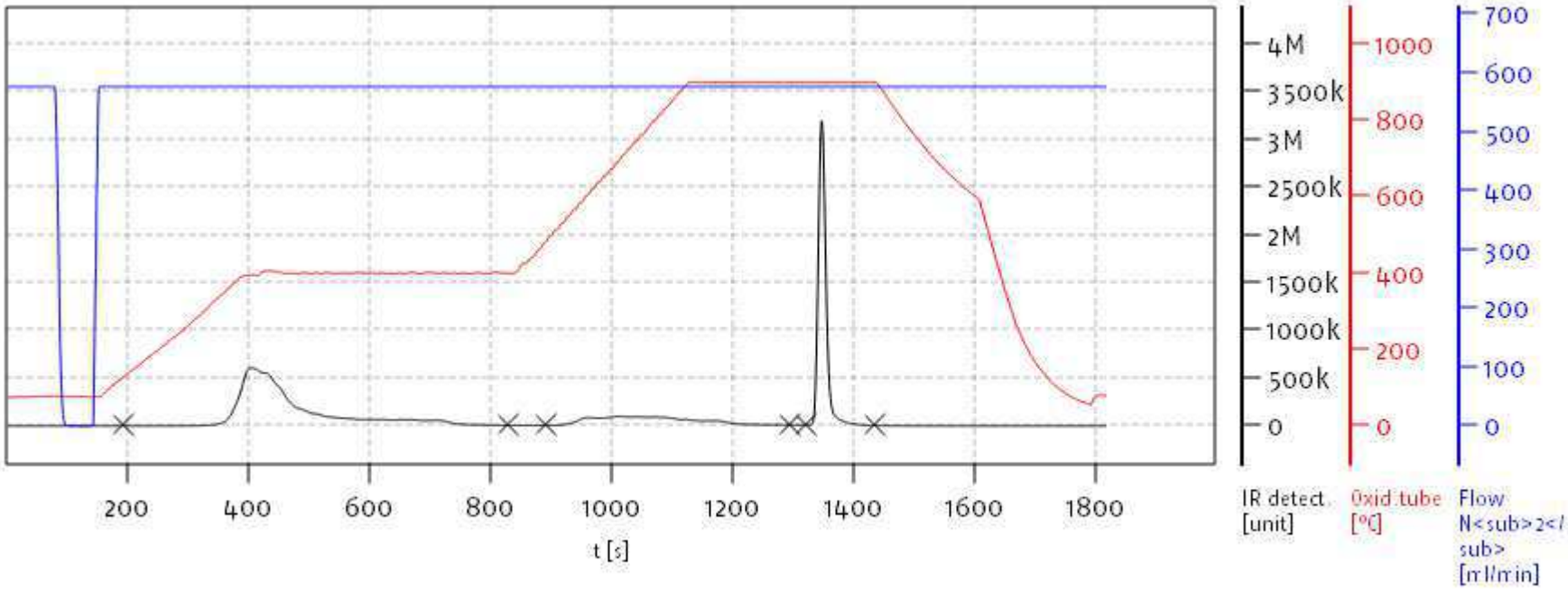
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
47	47	21H0321-27	560.20		1.00	CARBON	9/2/2021 10:51 AM	1.299	0.239	1.538	bl	2 574 550	805 359	1 799 210	0.9836	1.0000



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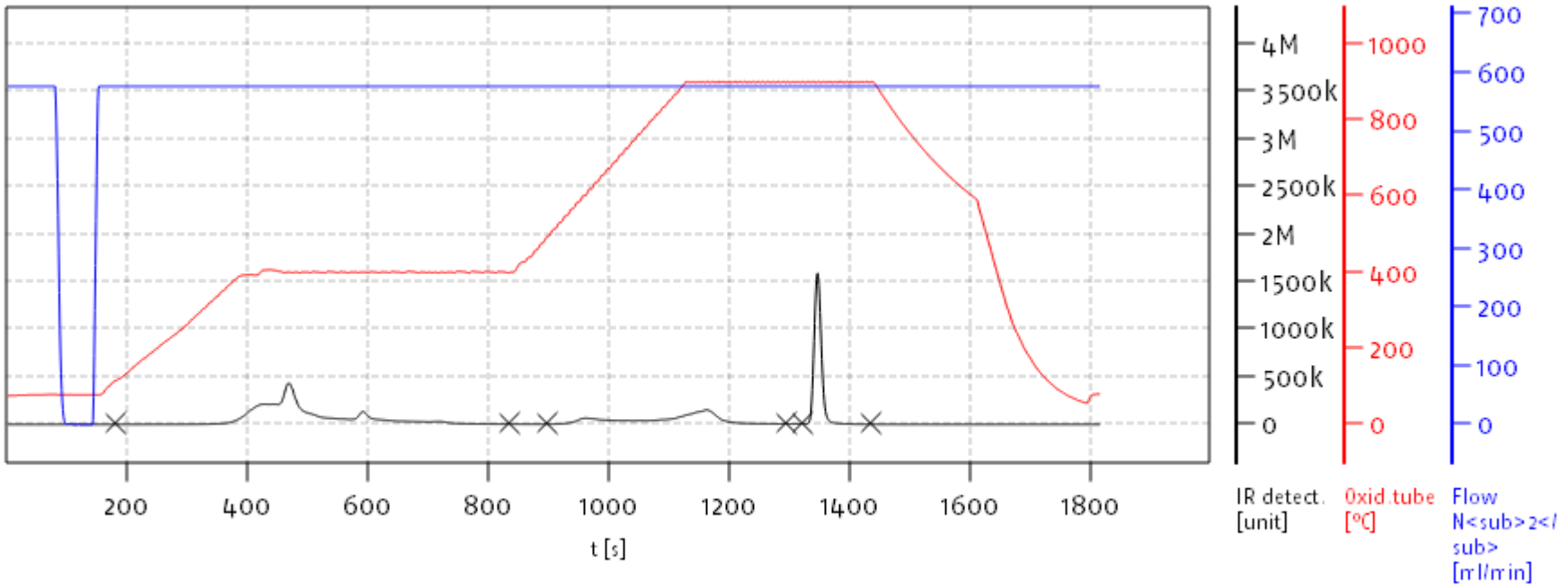
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
48	48	21H0321-29	536.10		1.00	CARBON	9/2/2021 11:22 AM	0.702	0.211	0.912	bl	1 440 650	680 090	833 032	0.9836	1.0000



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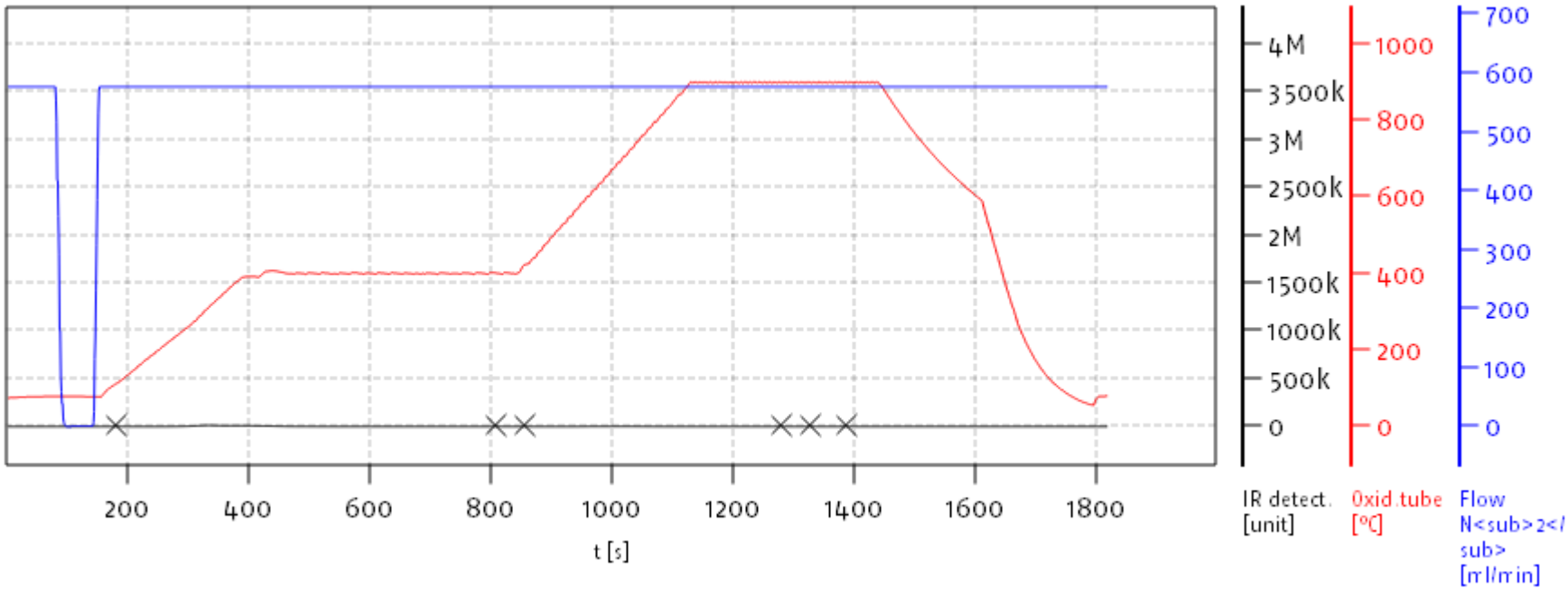
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		1.00	CARBON	9/2/2021 11:53 AM	0.000	0.000	0.000	bl	52 548	7 479	173	0.9836	1.0000



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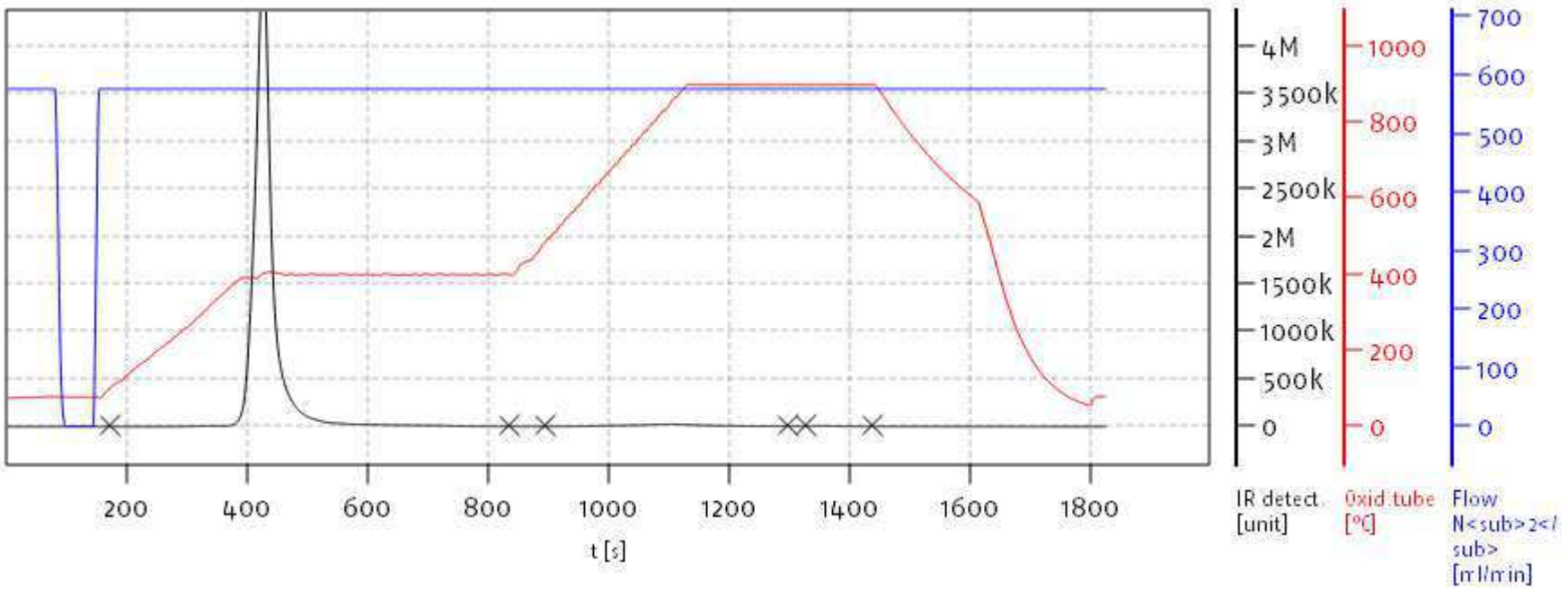
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
50	50	Dfactor	22.30		1.00	CARBON	9/2/2021 12:24 PM	44.476	1.093	45.568	bl	6 088 960	155 949	15 641	0.9657	1.0000



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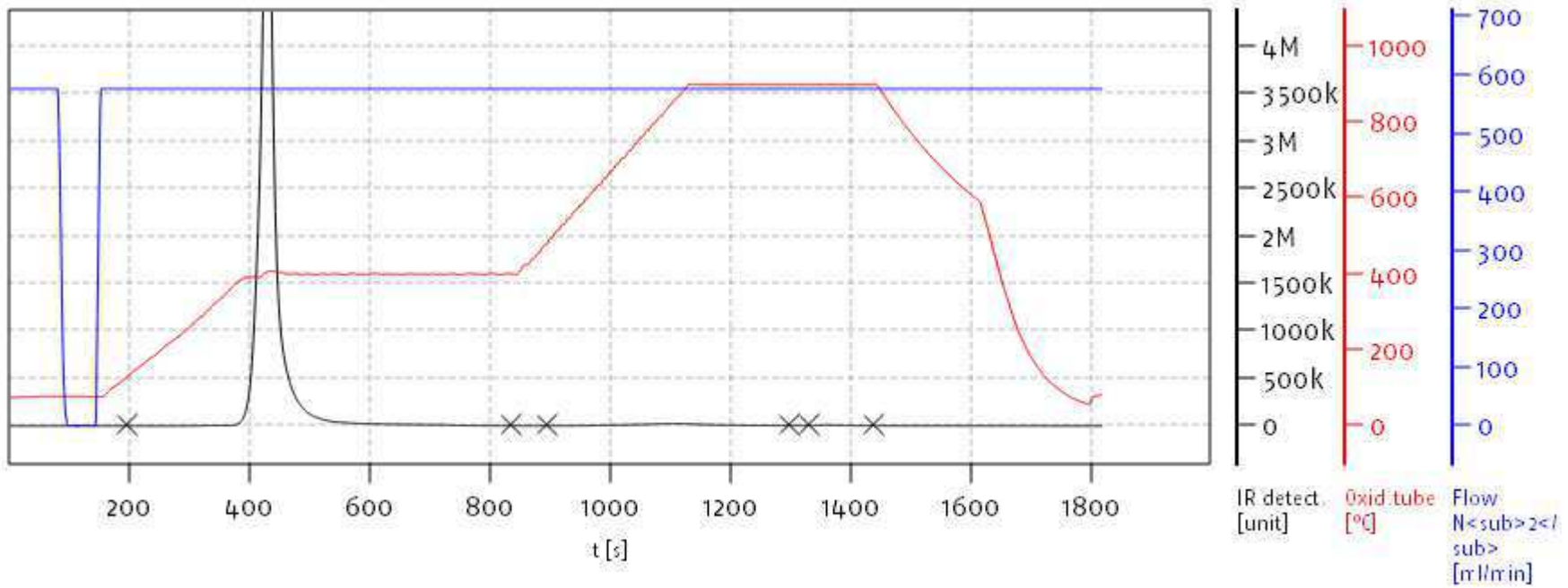
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
51	51	Dfactor	25.50		1.00	CARBON	9/2/2021 12:54 PM	44.491	0.880	45.372	bl	6 906 920	144 593	18 588	0.9733	1.0000



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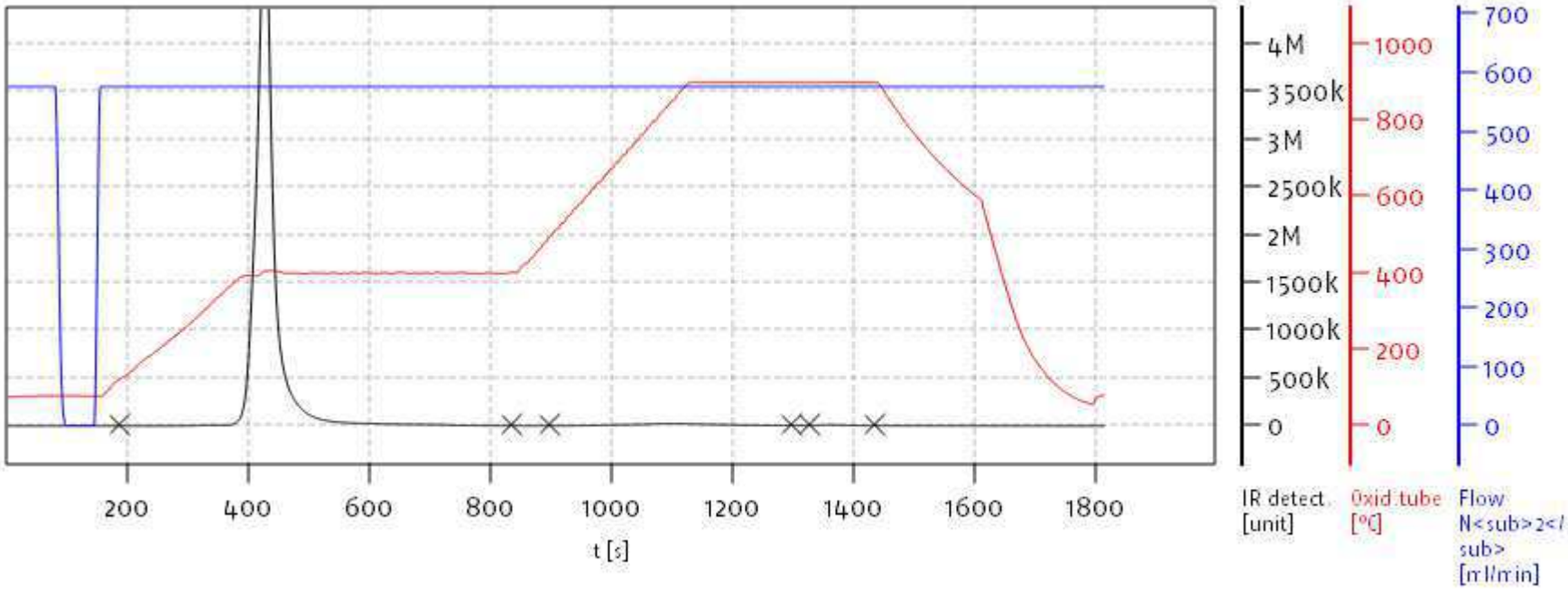
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
52	52	SJH0417-CCV4	24.90		1.00	CARBON	9/2/2021 1:25 PM	44.121	1.025	45.146	bl	6 709 400	162 761	23 546	0.9695	1.0000



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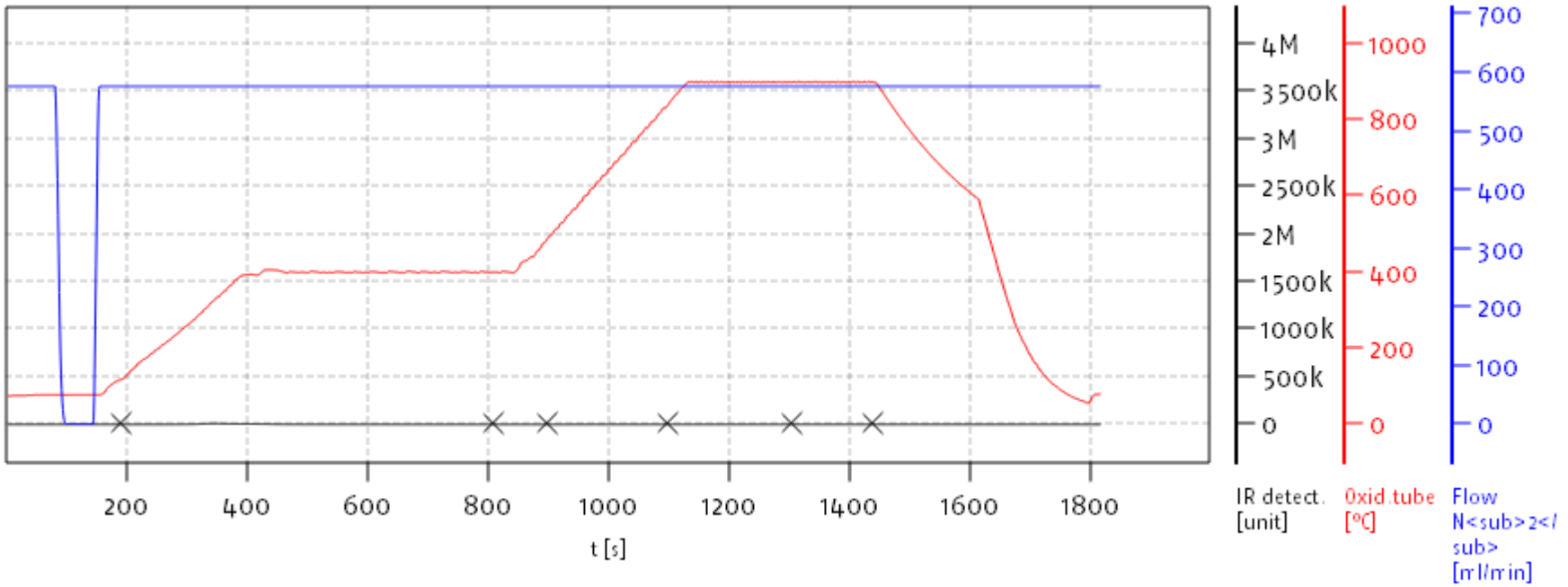
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
53	53	SJH0417-CCB4	535.50		1.00	CARBON	9/2/2021 1:56 PM	0.007	0.000	0.007	bl,C3u,C2u	33 017	1 669	575	0.9695	1.0000



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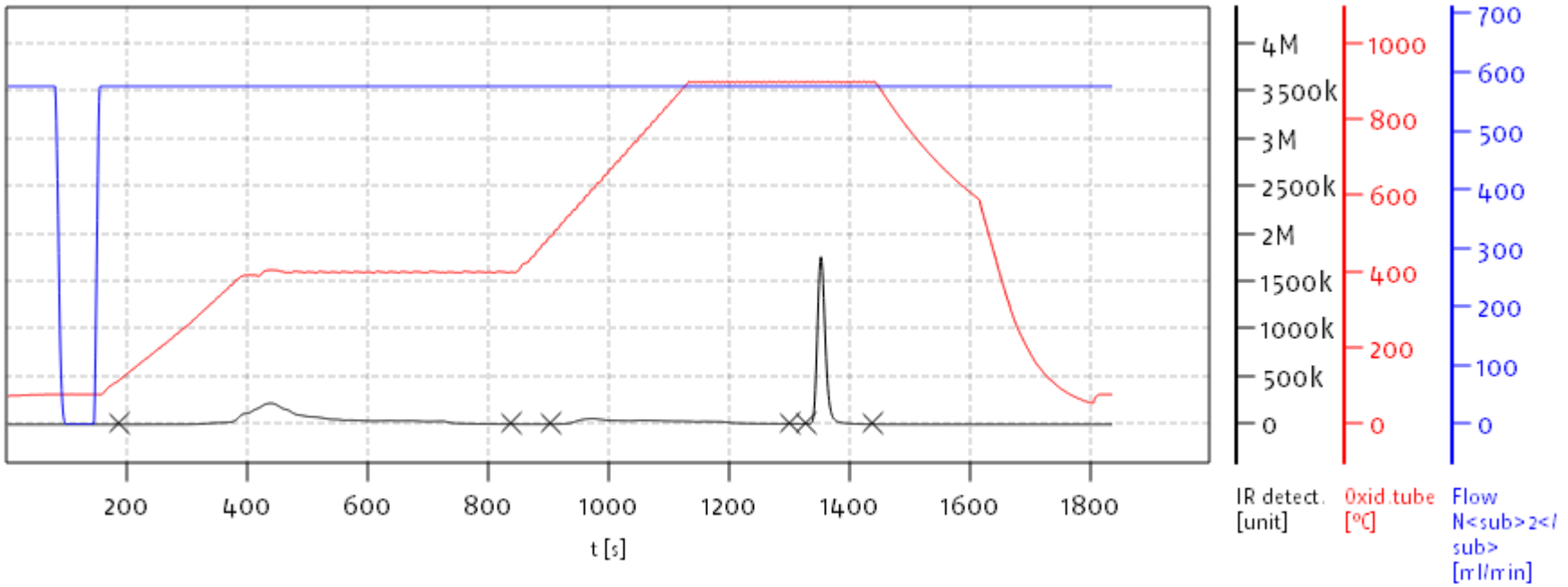
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
54	54	BJH0806-DUP1	563.60		1.00	CARBON	9/2/2021 2:27 PM	0.622	0.122	0.744	bl	1 111 790	418 885	1 021 670	0.9695	1.0000



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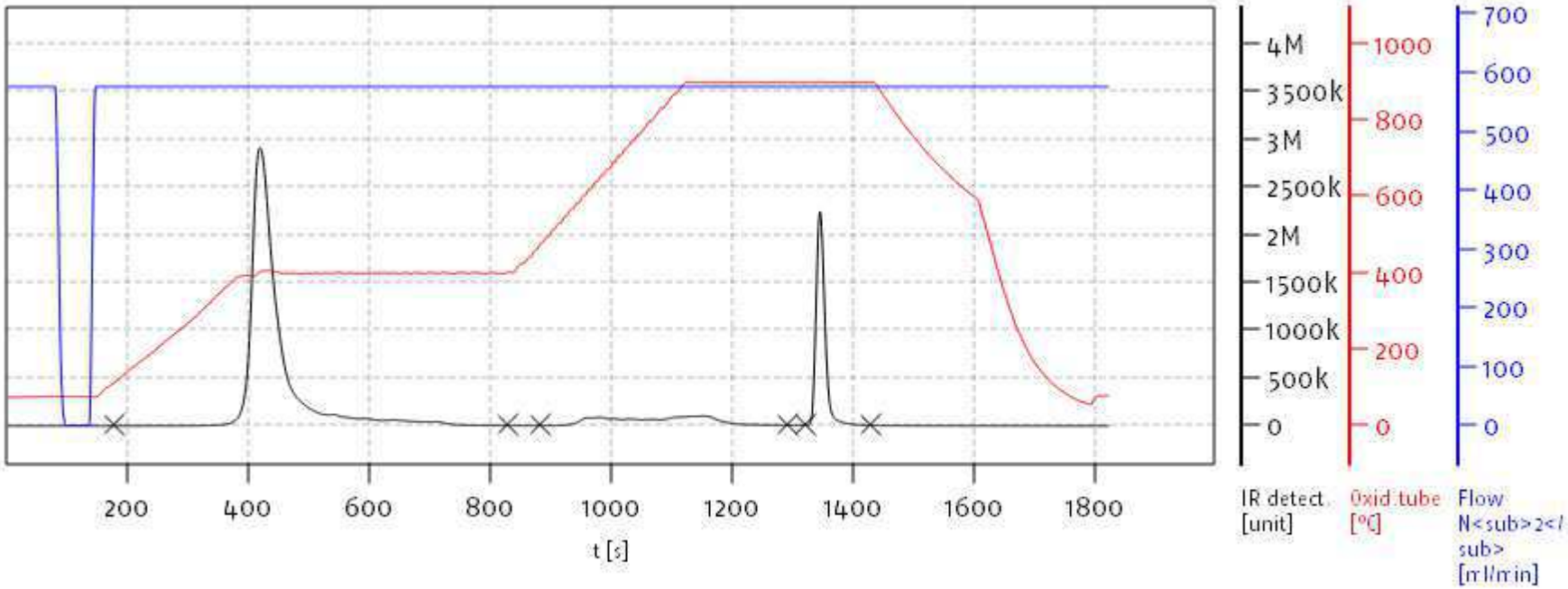
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
55	55	BJH0806-MS1	582.20	0.0152	1.00	CARBON	9/2/2021 2:58 PM	1.959	0.225	2.184	bl	5 506 470	787 495	1 439 440	0.9695	1.0000



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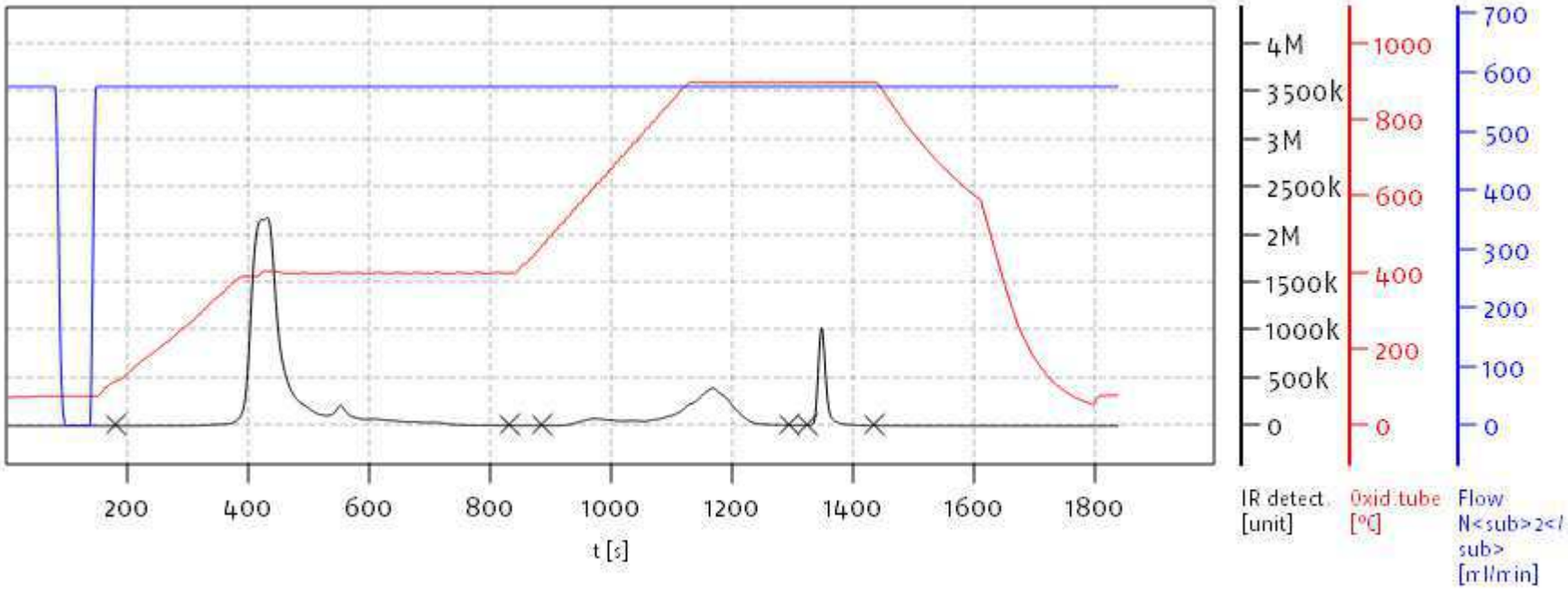
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
56	56	BJH0806-MSD1	647.00	0.0136	1.00	CARBON	9/2/2021 3:29 PM	1.412	0.407	1.818	bl	4 998 770	1 568 990	586 039	0.9695	1.0000



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Access: soliTOC superuser

Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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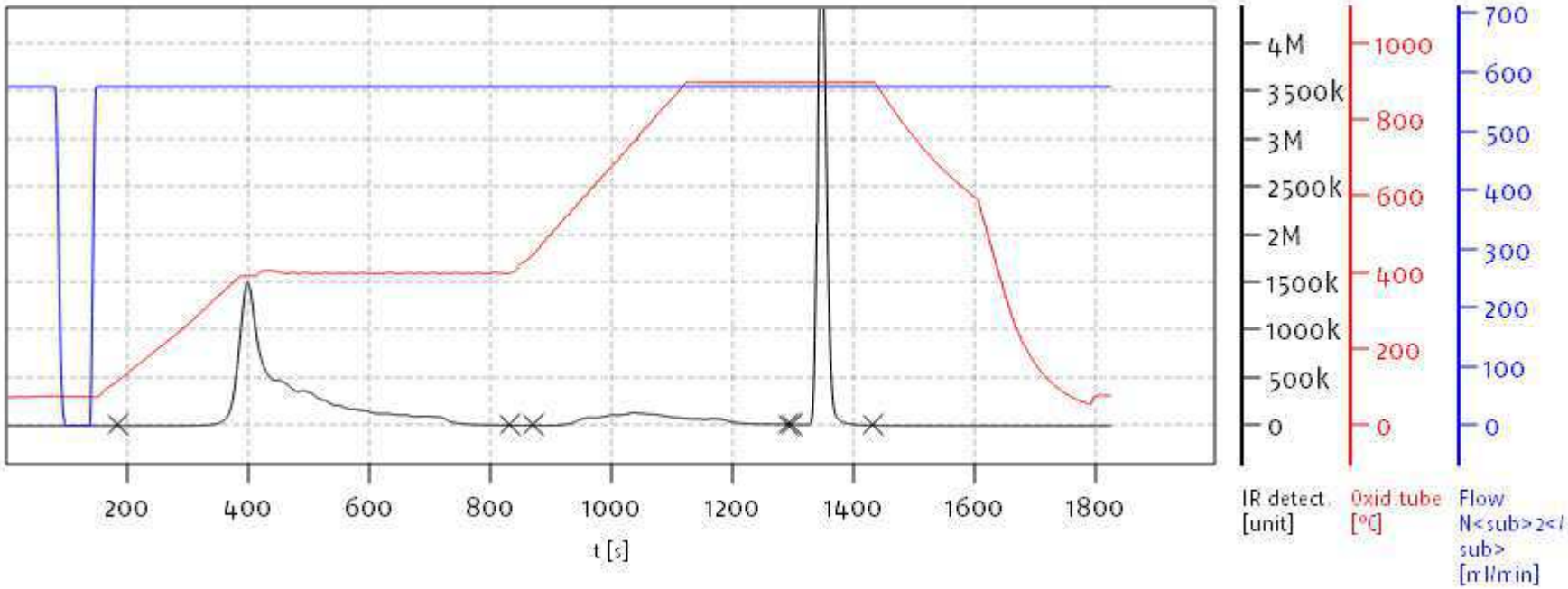
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
57	57	21H0340-01	543.10		1.00	CARBON	9/2/2021 4:00 PM	2.419	0.310	2.729	bl	4 648 150	1 009 120	3 294 230	0.9695	1.0000



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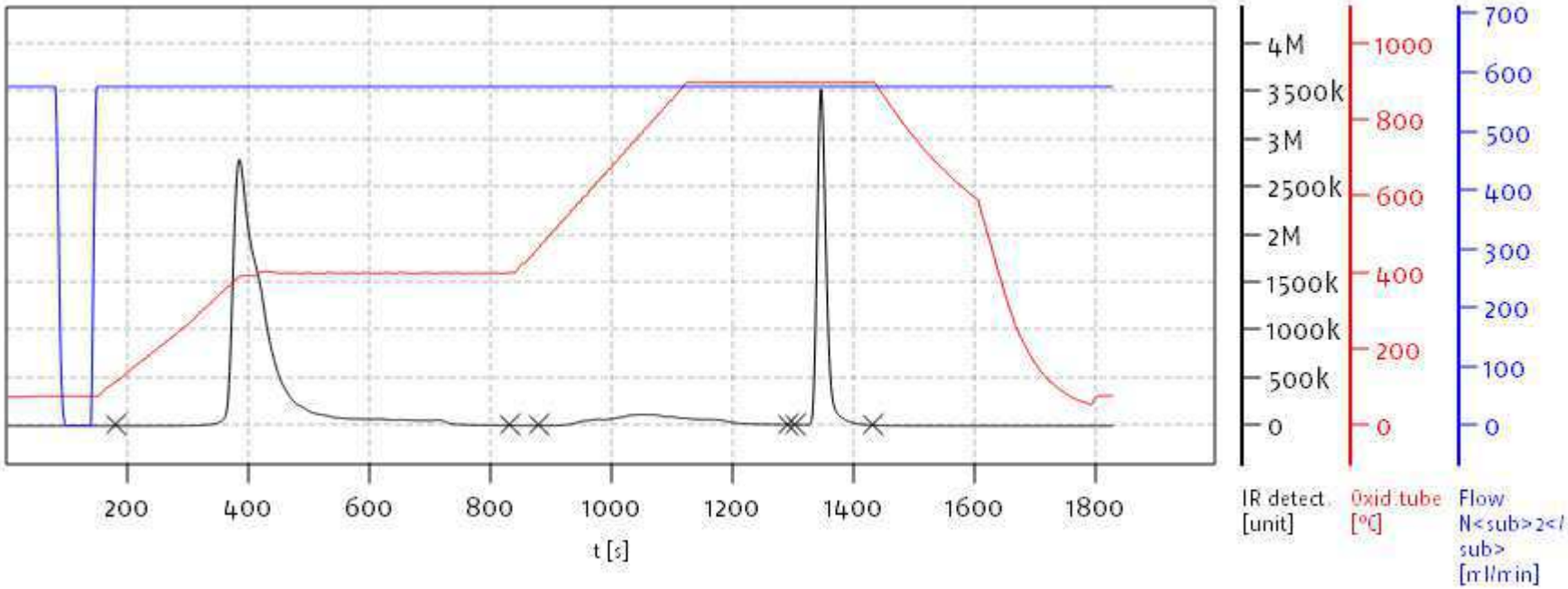
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
58	58	BJH0806-DUP2	524.60		1.00	CARBON	9/2/2021 4:30 PM	2.696	0.275	2.971	bl	6 233 690	865 158	2 354 140	0.9695	1.0000



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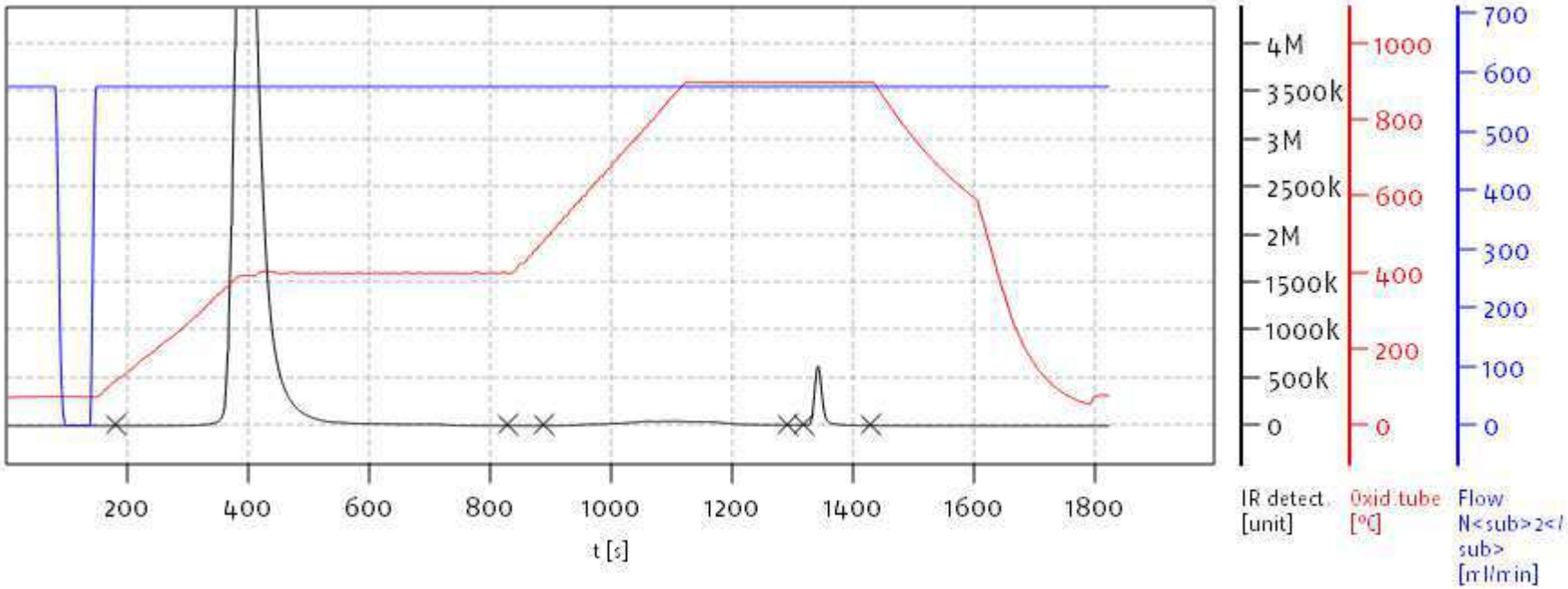
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
59	59	BJH0806-MS2	504.50	0.0113	1.00	CARBON	9/2/2021 5:01 PM	4.147	0.122	4.268	bl,C1o	12 428 400	375 475	360 884	0.9695	1.0000



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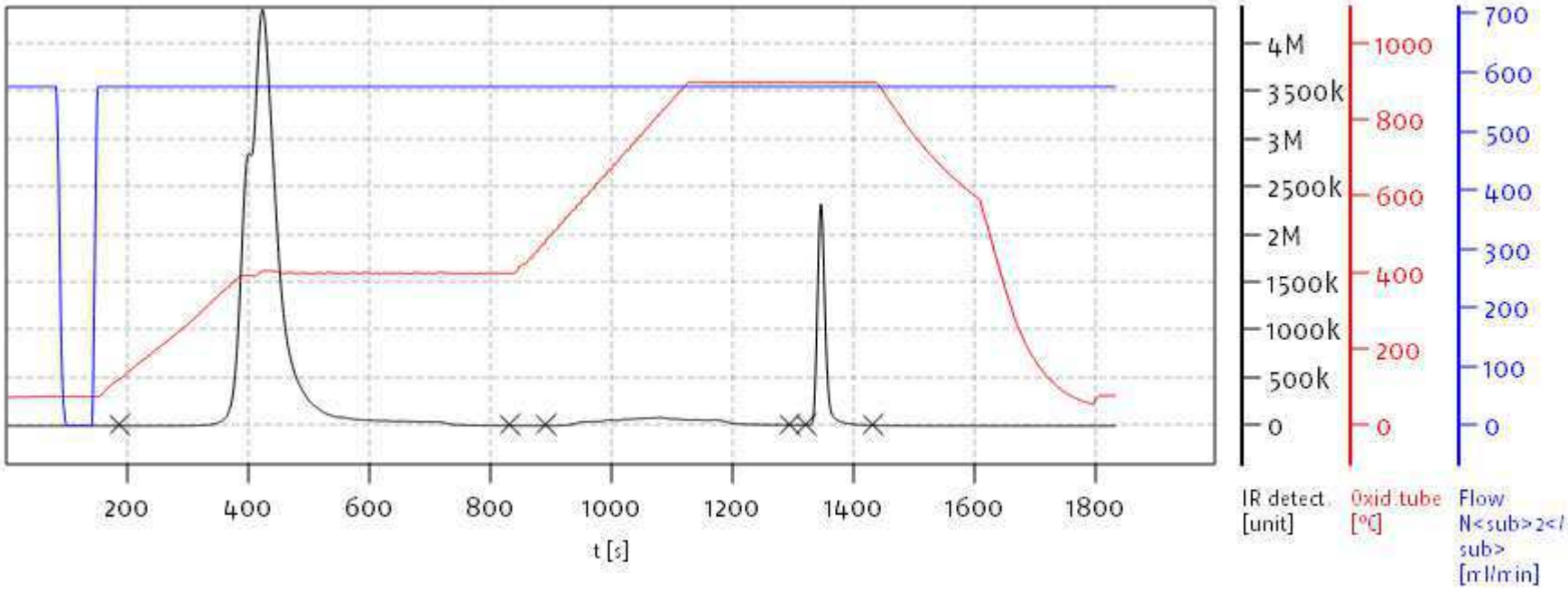
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
60	60	BJH0806-MSD2	504.50	0.0114	1.00	CARBON	9/2/2021 5:32 PM	3.648	0.218	3.866	bl,C1o	9 900 300	663 513	1 322 580	0.9695	1.0000



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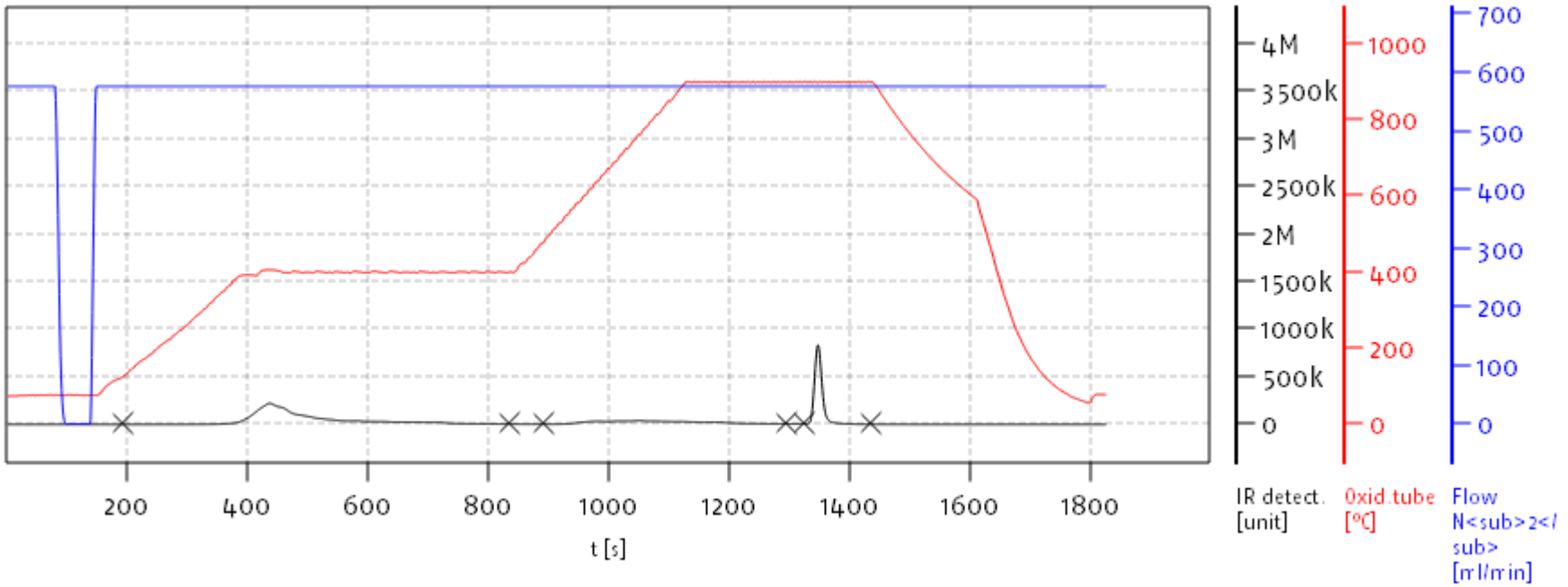
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
61	61	21H0340-03	633.90		1.00	CARBON	9/2/2021 6:03 PM	0.354	0.082	0.436	bl	915 800	319 228	462 975	0.9695	1.0000



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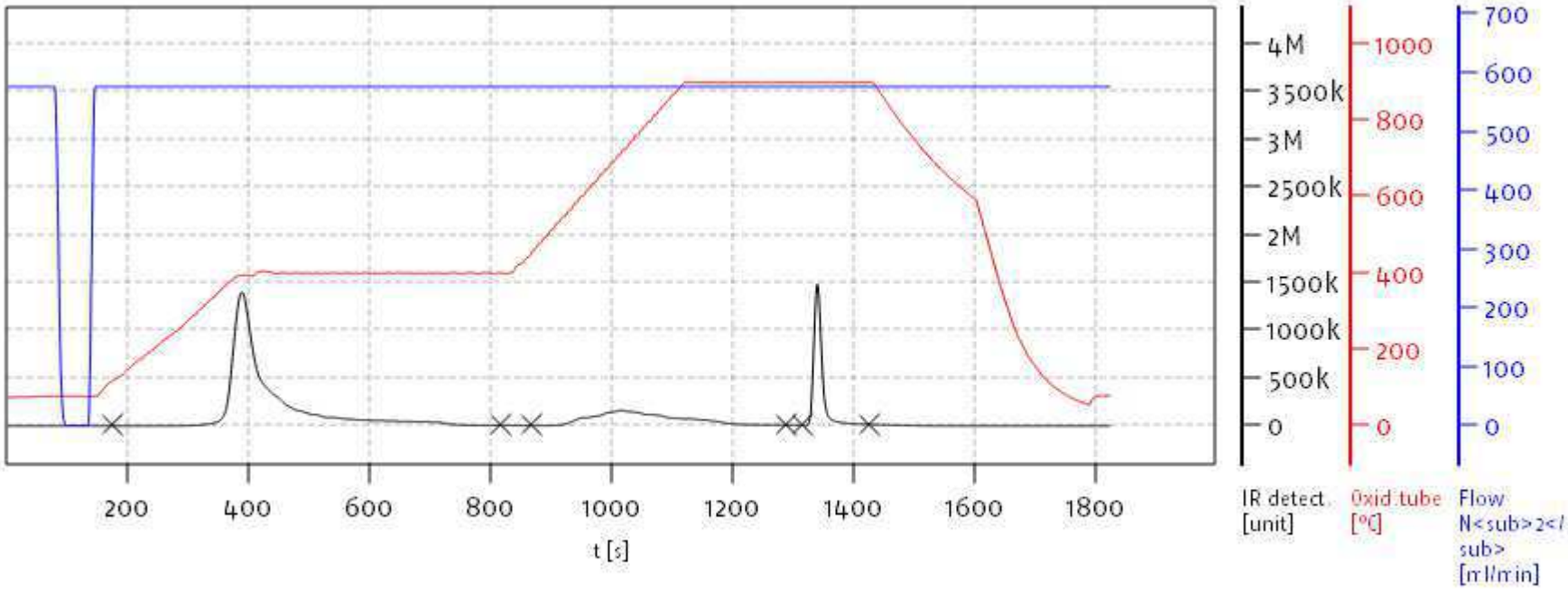
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
62	62	21H0340-05	573.70		1.00	CARBON	9/2/2021 6:34 PM	1.200	0.292	1.491	bl	3 304 260	1 002 180	895 014	0.9695	1.0000



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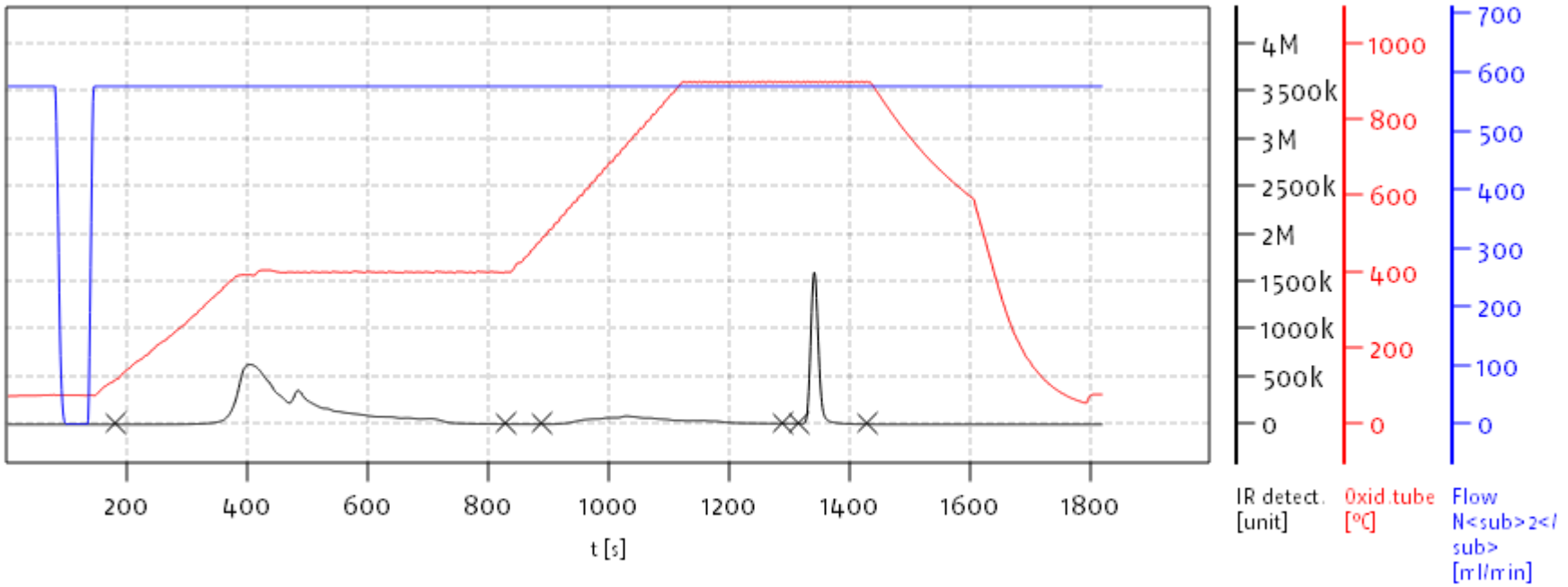
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
63	63	21H0340-07	561.20		1.00	CARBON	9/2/2021 7:05 PM	1.107	0.168	1.275	bl	2 881 690	569 035	908 510	0.9695	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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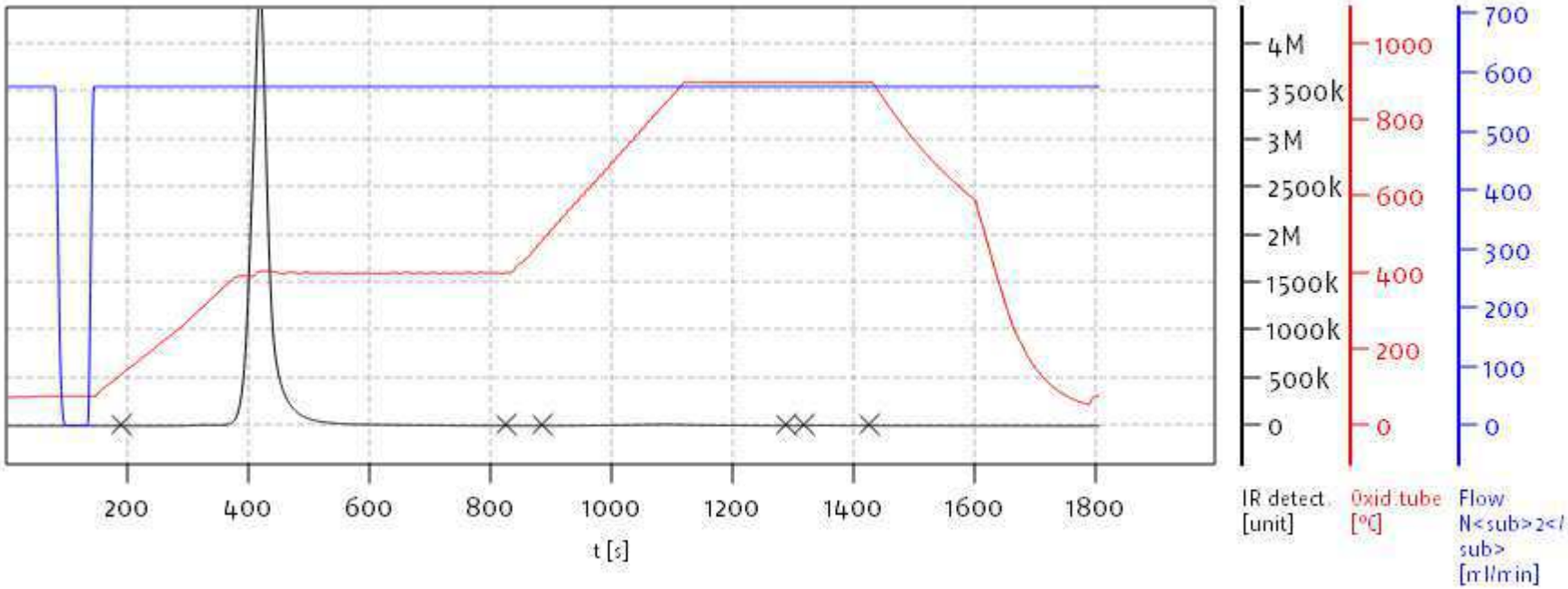
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
64	64	SJH0417-CCV5	20.90		1.00	CARBON	9/2/2021 7:35 PM	44.804	0.689	45.493	bl	5 728 880	96 951	13 637	0.9695	1.0000



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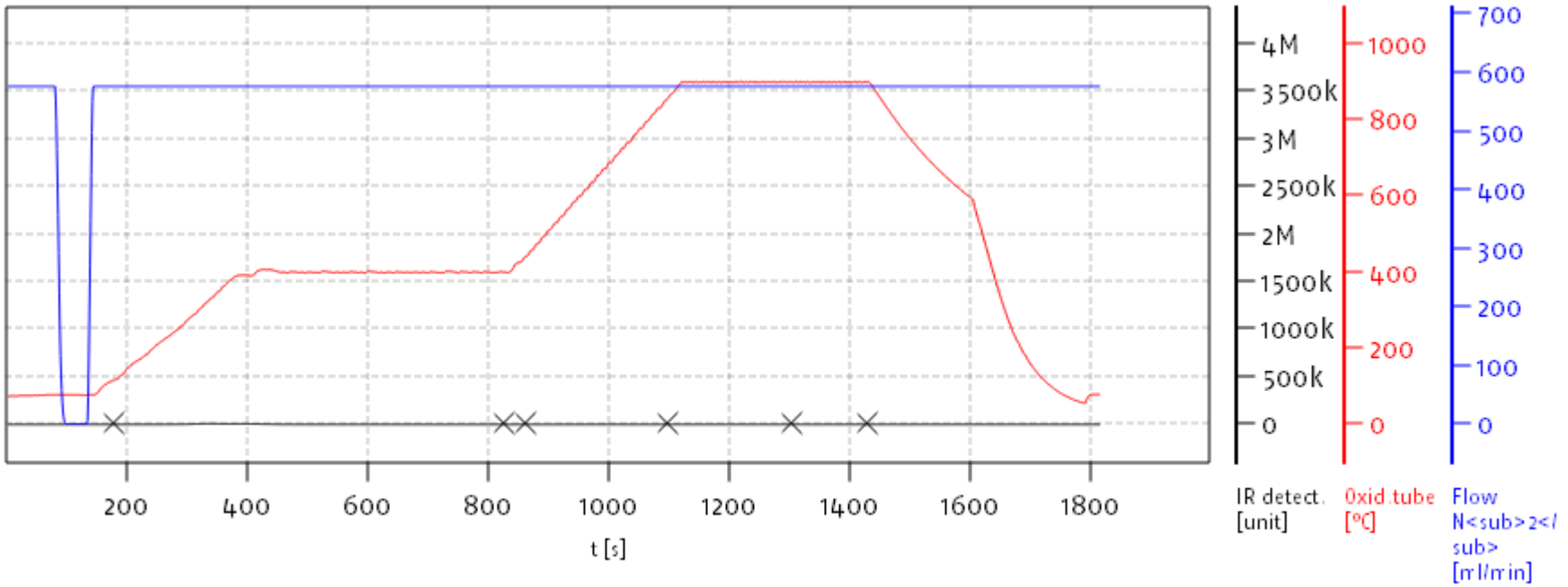
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
65	65	SJH0417-CCB5	567.60		1.00	CARBON	9/2/2021 8:06 PM	0.007	0.000	0.007	bl,C3u,C2u	34 359	1 295	395	0.9695	1.0000



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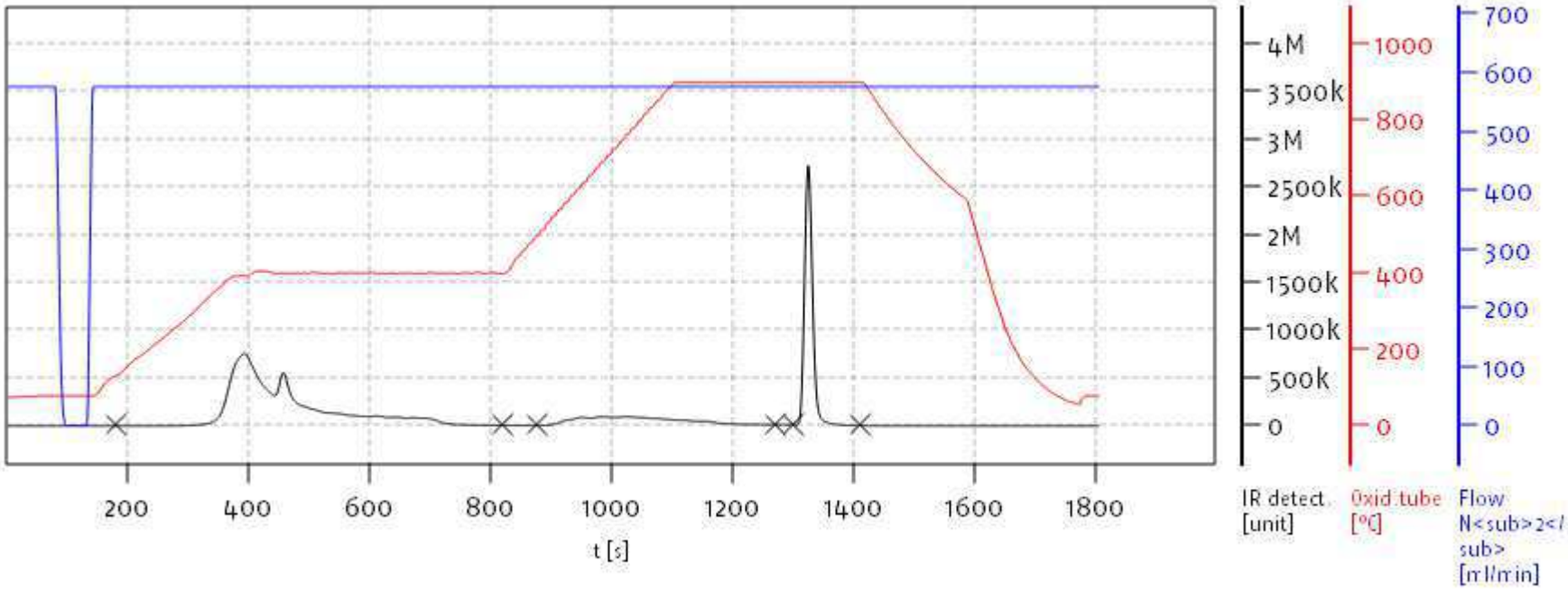
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
66	66	21H0340-09	506.00		1.00	CARBON	9/2/2021 8:36 PM	1.606	0.260	1.866	bl	3 346 540	789 910	1 590 190	0.9695	1.0000



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Soli TOC Cube, Carbon
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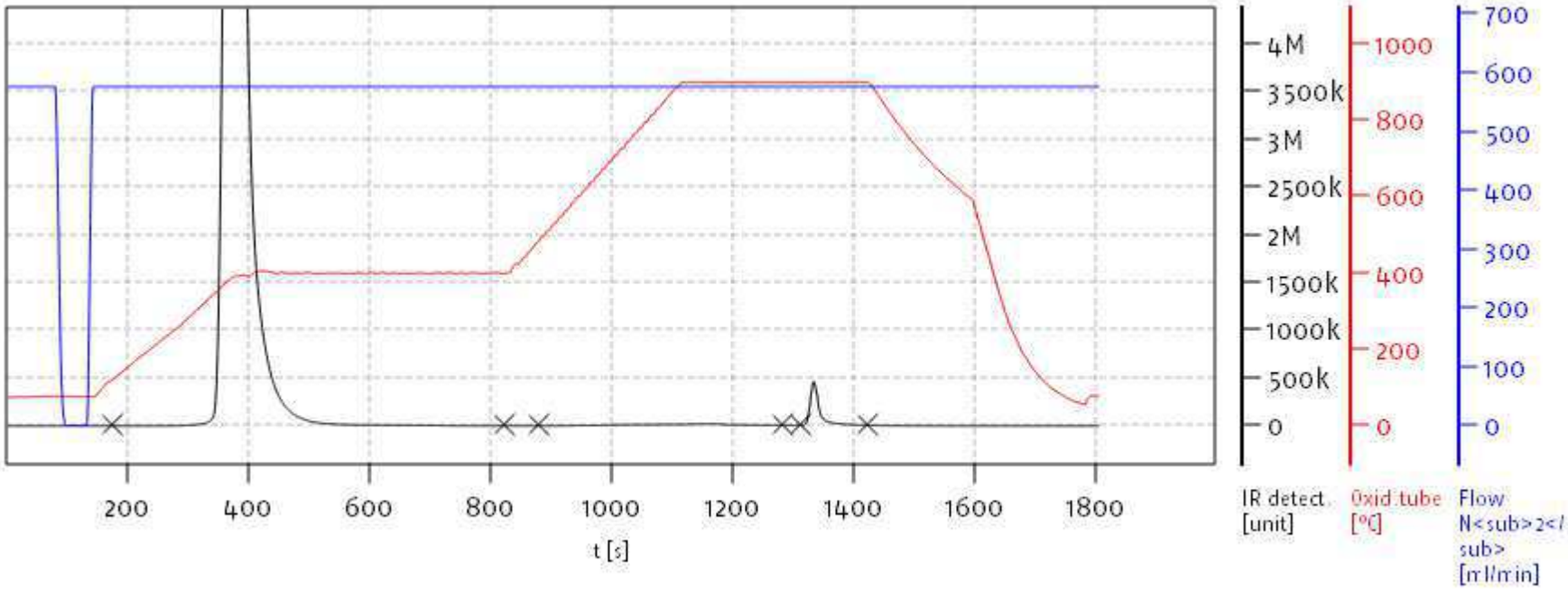
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
67	67	21H0340-11	373.90		1.00	CARBON	9/2/2021 9:07 PM	6.768	0.063	6.832	bl,C1o	15 152 400	151 900	317 720	0.9695	1.0000



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Soli TOC Cube, Carbon
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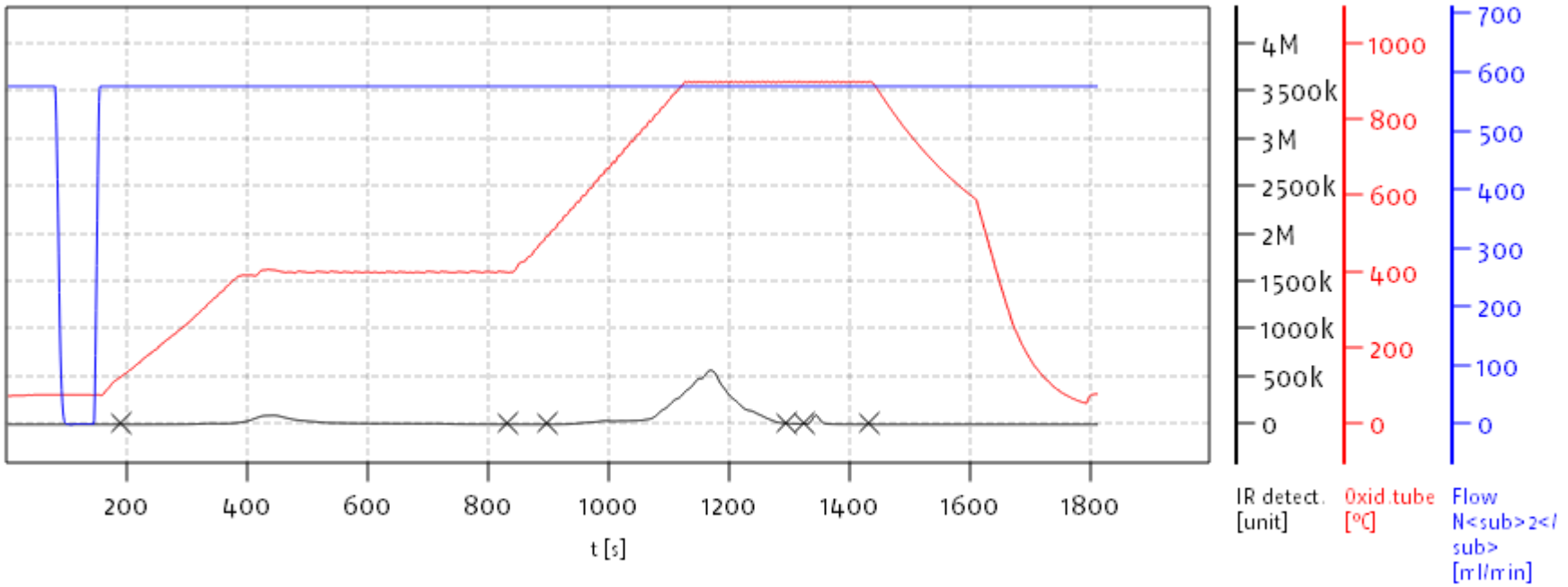
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
68	68	21H0340-13	358.50		1.00	CARBON	9/2/2021 9:38 PM	0.205	1.054	1.259	bl	412 280	2 249 620	58 443	0.9695	1.0000



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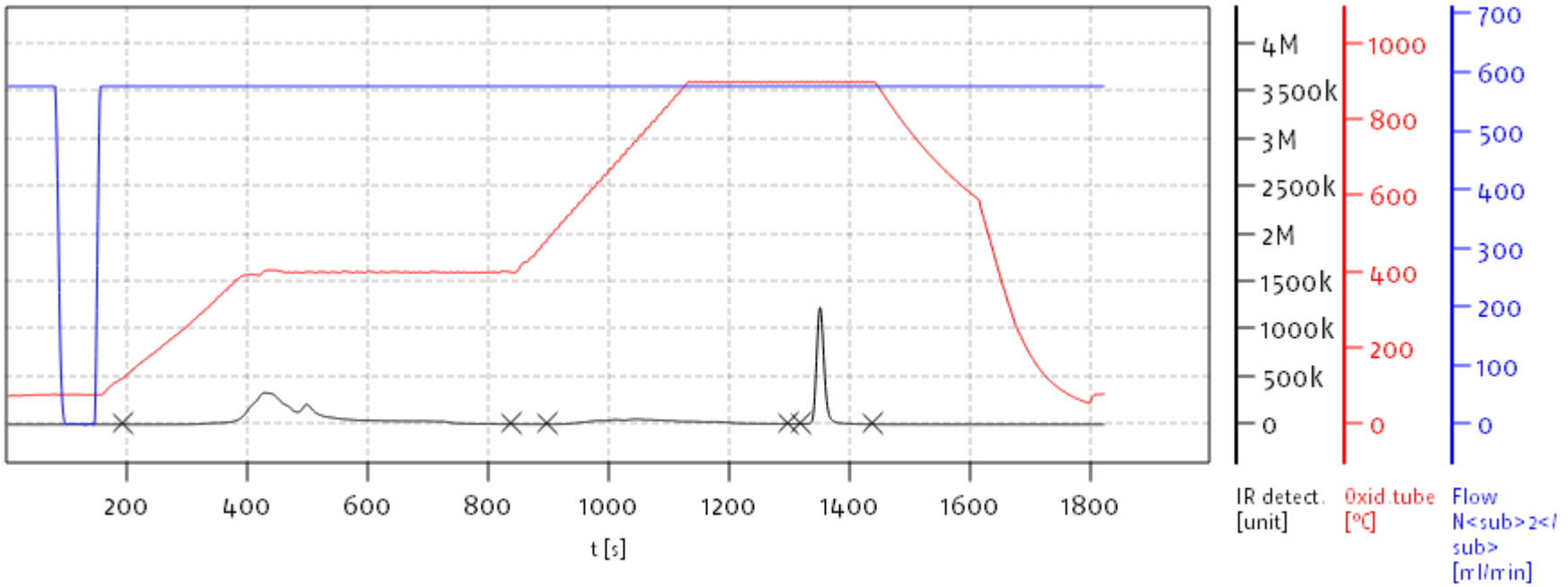
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
69	69	21H0340-15	607.80		1.00	CARBON	9/2/2021 10:08 PM	0.578	0.106	0.684	bl	1 459 570	392 693	687 016	0.9695	1.0000



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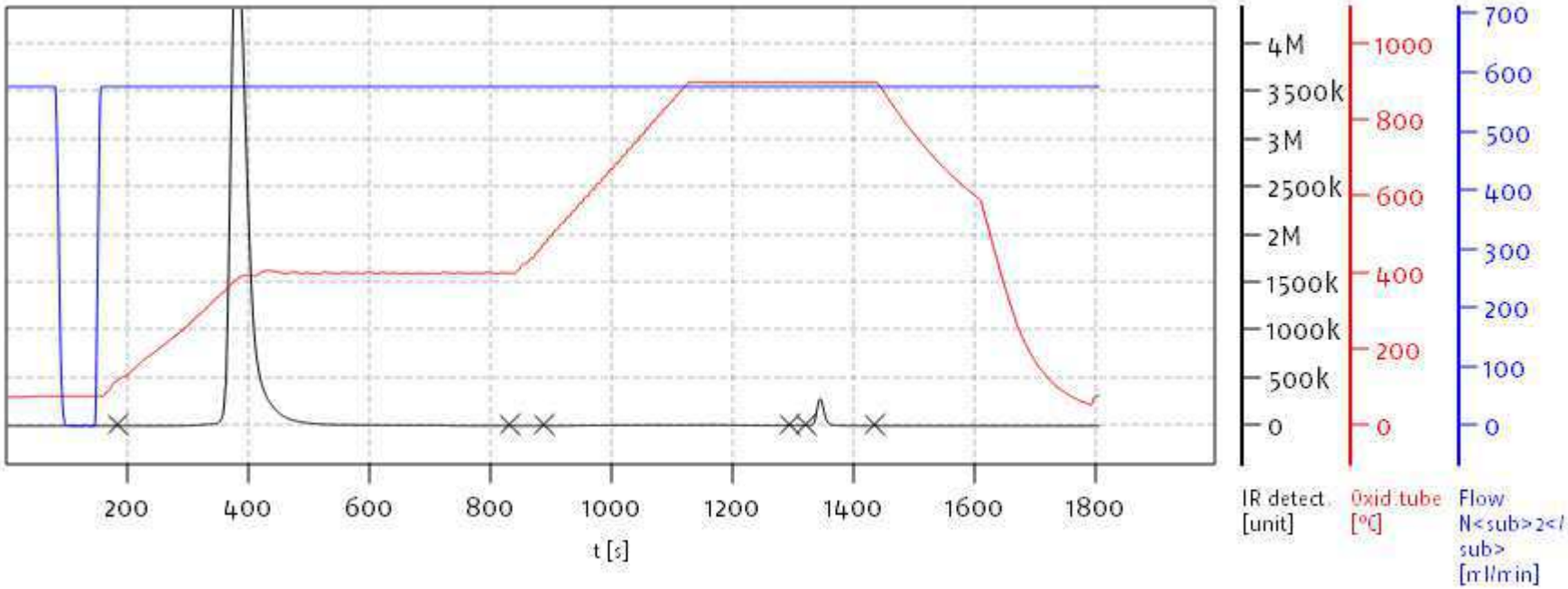
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
70	70	21H0340-17	152.10		1.00	CARBON	9/2/2021 10:39 PM	7.034	0.085	7.120	bl	6 401 440	88 482	152 338	0.9695	1.0000



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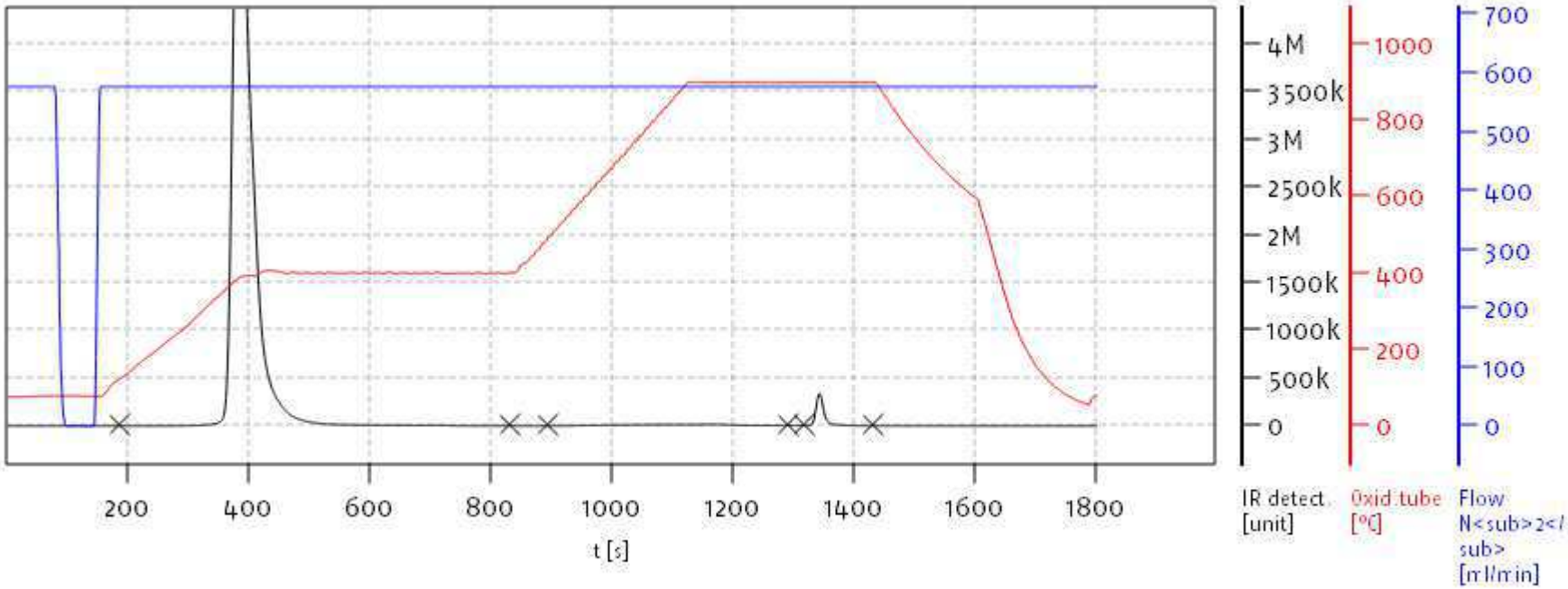
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
71	71	21H0340-19	239.80		1.00	CARBON	9/2/2021 11:09 PM	5.927	0.078	6.006	bl	8 502 160	122 768	196 781	0.9695	1.0000



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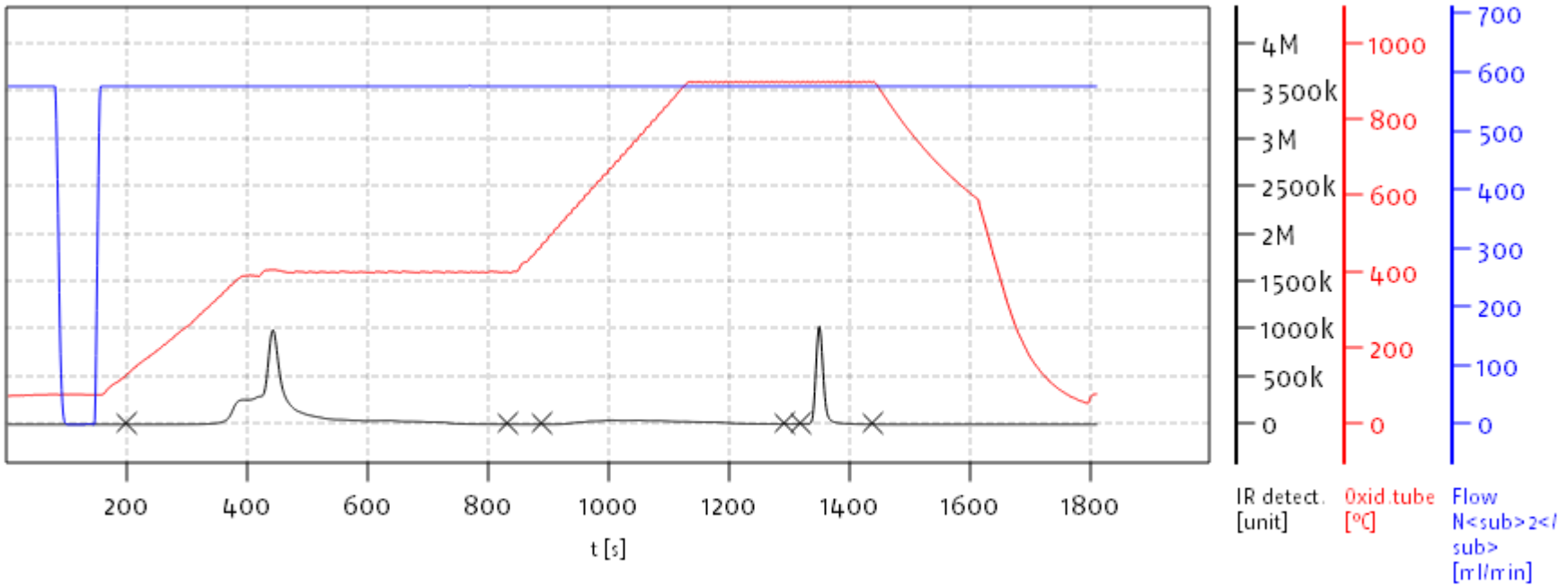
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
72	72	21H0340-21	317.60		1.00	CARBON	9/2/2021 11:40 PM	1.328	0.177	1.504	bl	2 018 730	343 690	562 736	0.9695	1.0000



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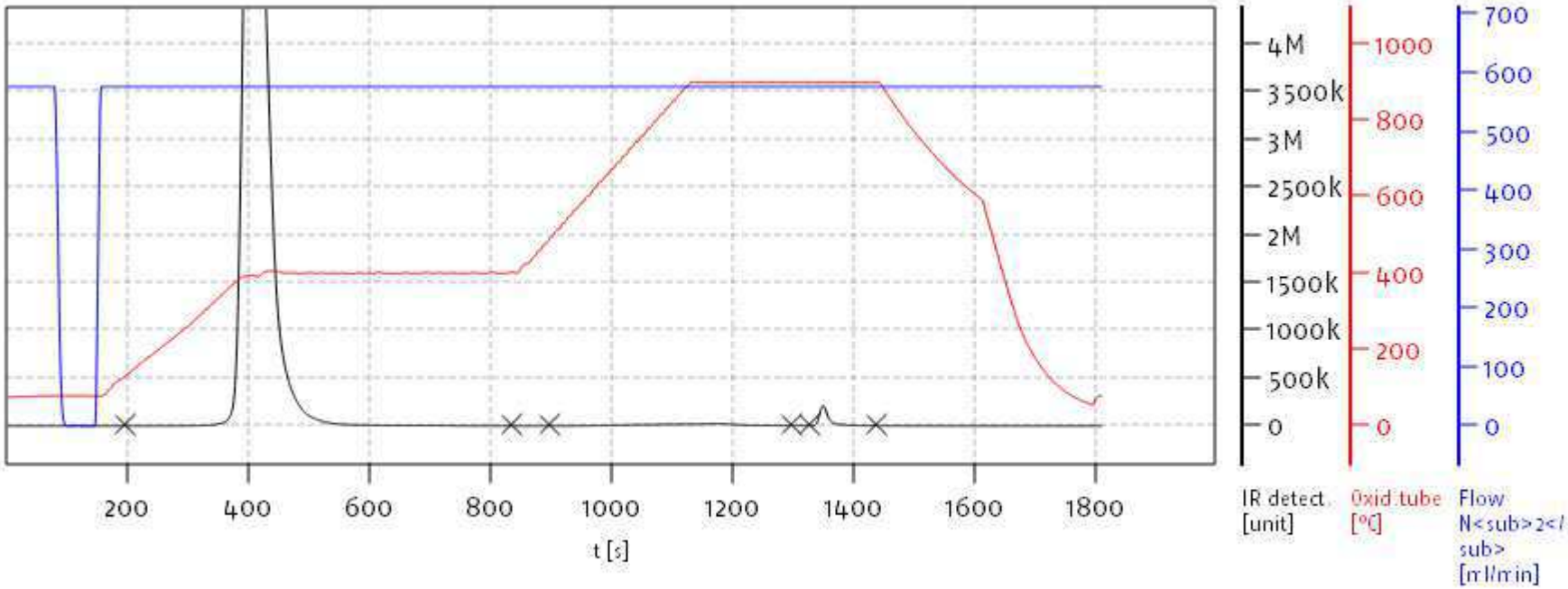
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
73	73	21H0340-23	533.50		1.00	CARBON	9/3/2021 12:11 AM	4.292	0.041	4.333	bl,C1o	13 859 600	140 789	145 060	0.9695	1.0000



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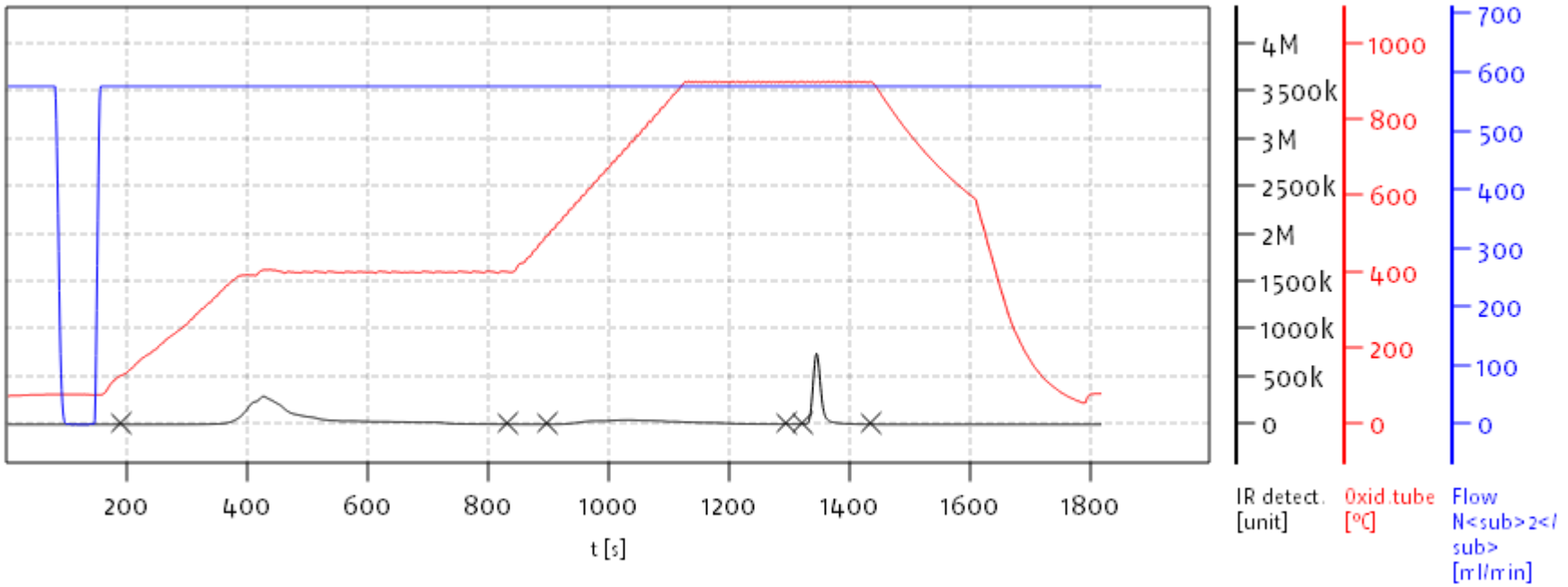
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
74	74	21H0340-25	557.00		1.00	CARBON	9/3/2021 12:41 AM	0.452	0.094	0.546	bl	1 110 300	322 102	436 273	0.9695	1.0000



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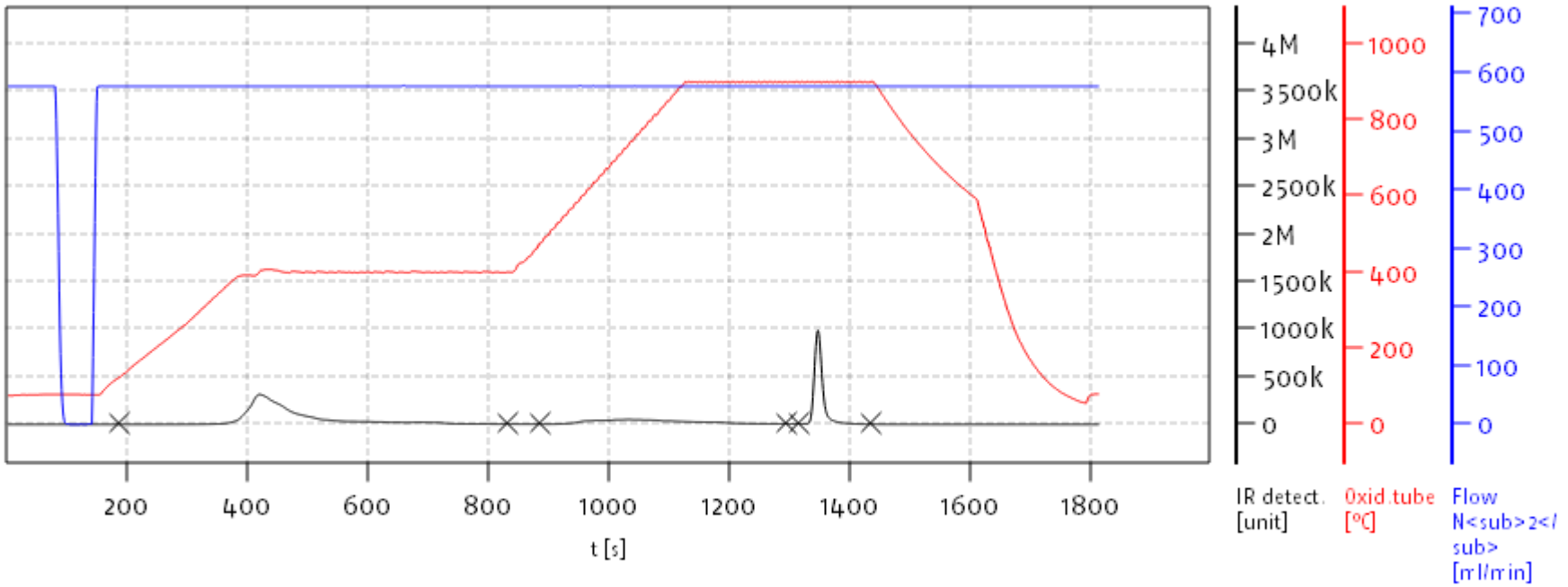
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
75	75	21H0340-27	510.00		1.00	CARBON	9/3/2021 1:12 AM	0.544	0.125	0.669	bl	1 116 780	387 741	584 104	0.9695	1.0000



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Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

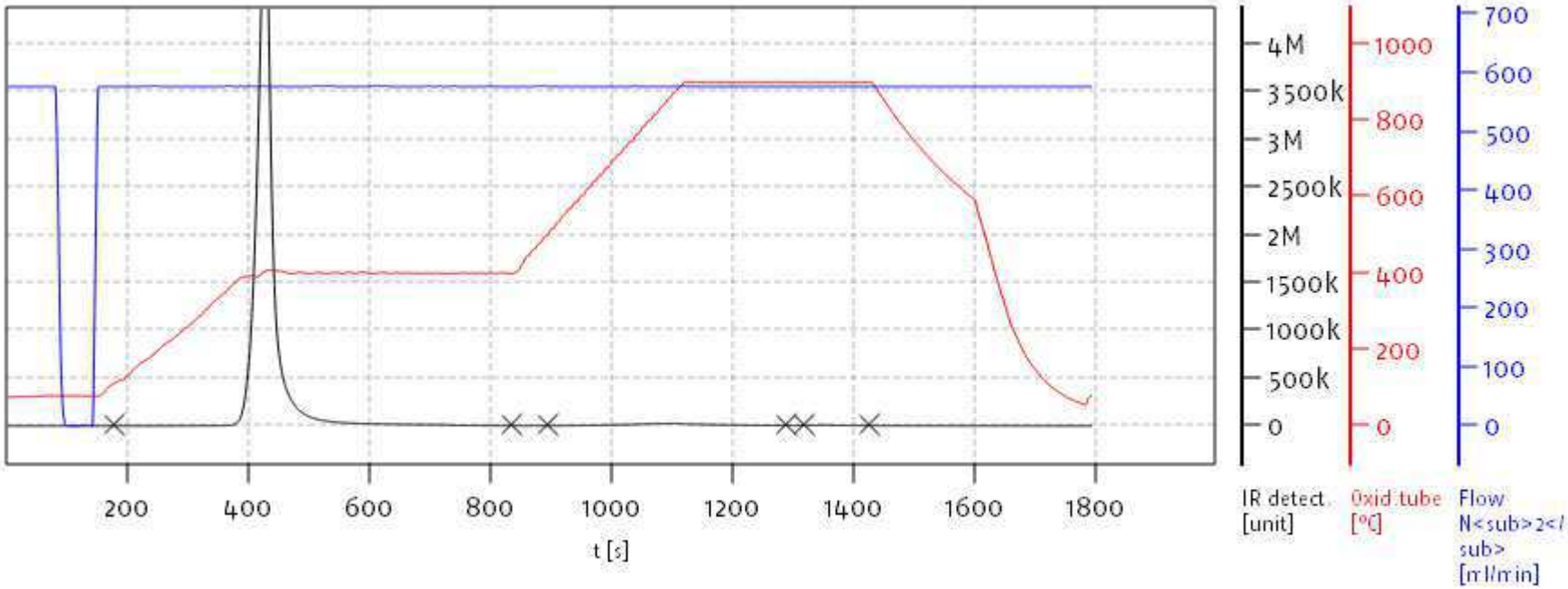
elementar
EXCELLENCE IN ELEMENTS

Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
76	76	SJH0417-CCV6	23.30		1.00	CARBON	9/3/2021 1:42 AM	43.705	1.095	44.800	bl	6 221 630	162 760	21 043	0.9695	1.0000



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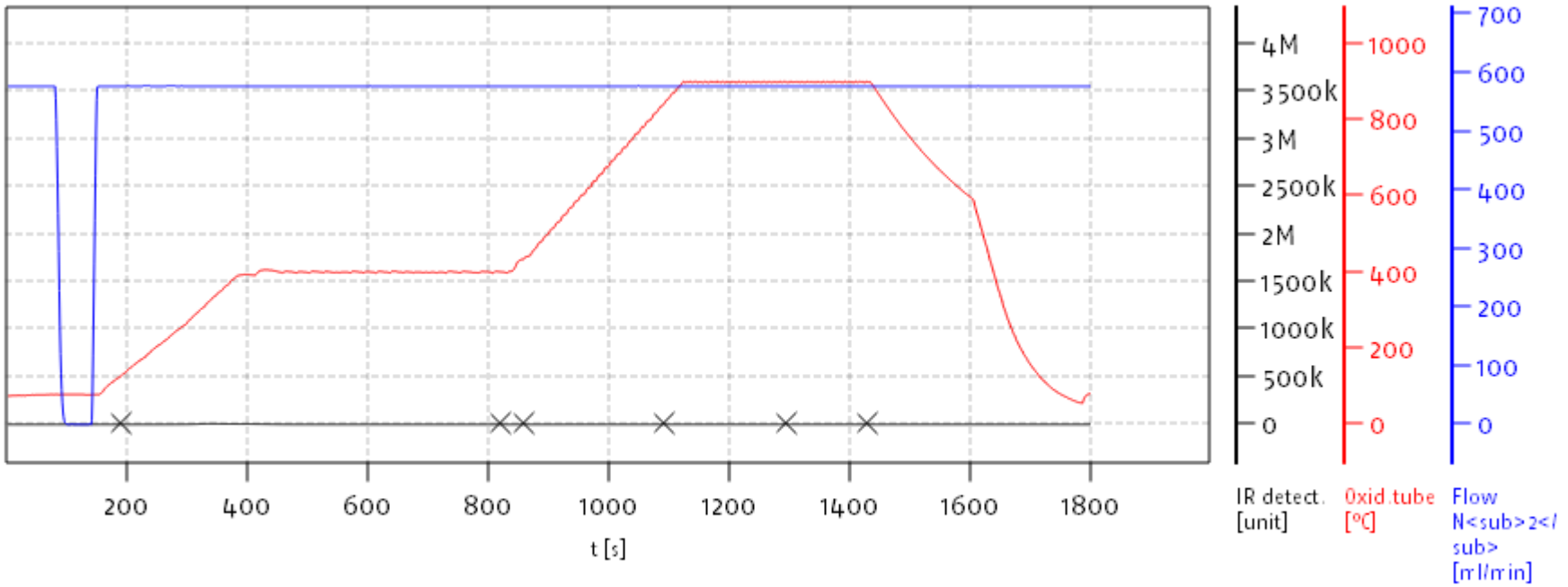
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
77	77	SJH0417-CCB6	524.50		1.00	CARBON	9/3/2021 2:13 AM	0.005	0.000	0.005	bl,C3u,C2u	27 480	516	346	0.9695	1.0000



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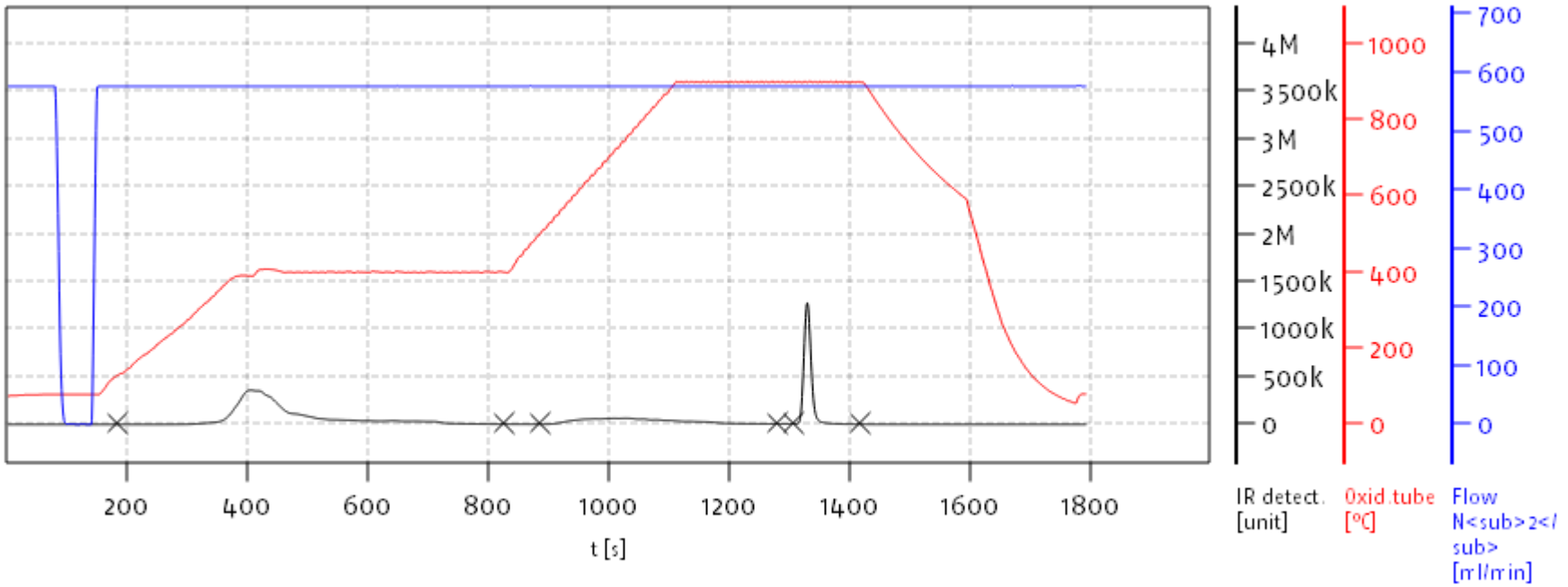
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
78	78	21H0340-29	508.10		1.00	CARBON	9/3/2021 2:43 AM	0.708	0.158	0.865	bl	1 522 420	485 549	676 412	0.9695	1.0000



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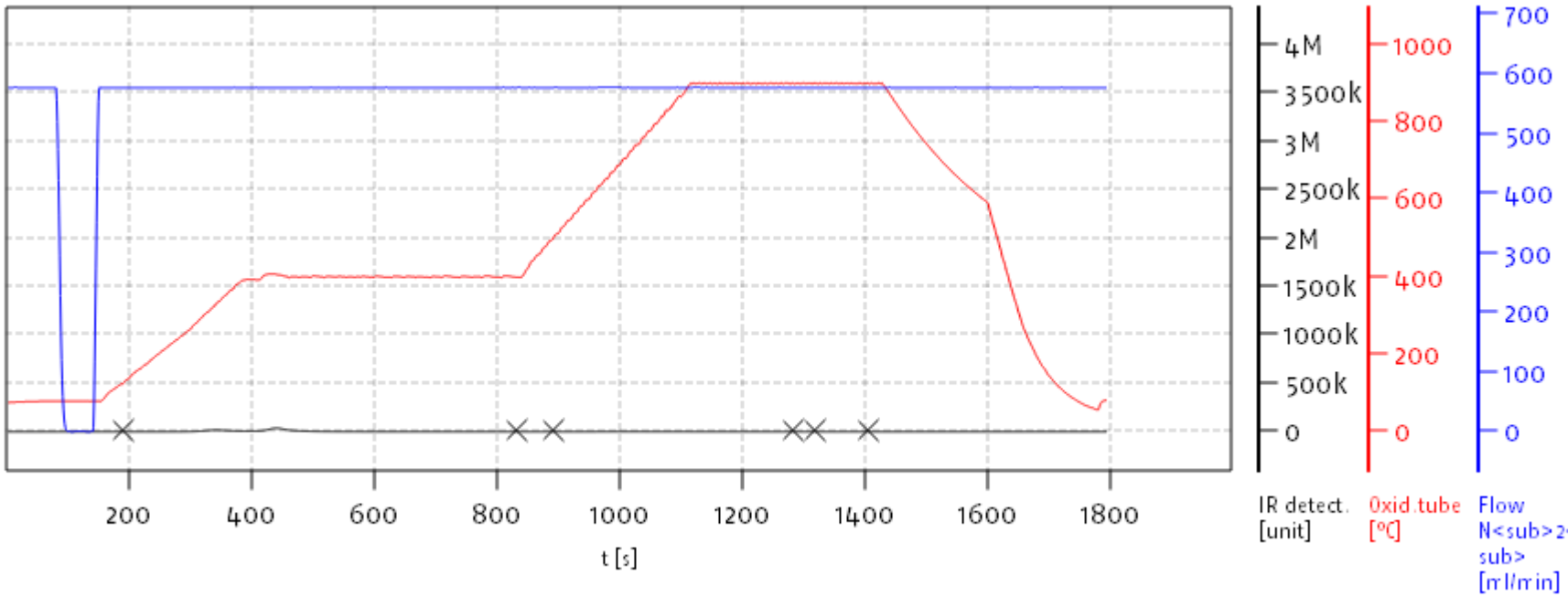
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
79	79	BJH0807-MRL1	515.10		1.00	CARBON	9/3/2021 3:13 AM	0.028	0.000	0.028	bl,C3u,C2u	100 052	6 913	344	0.9695	1.0000



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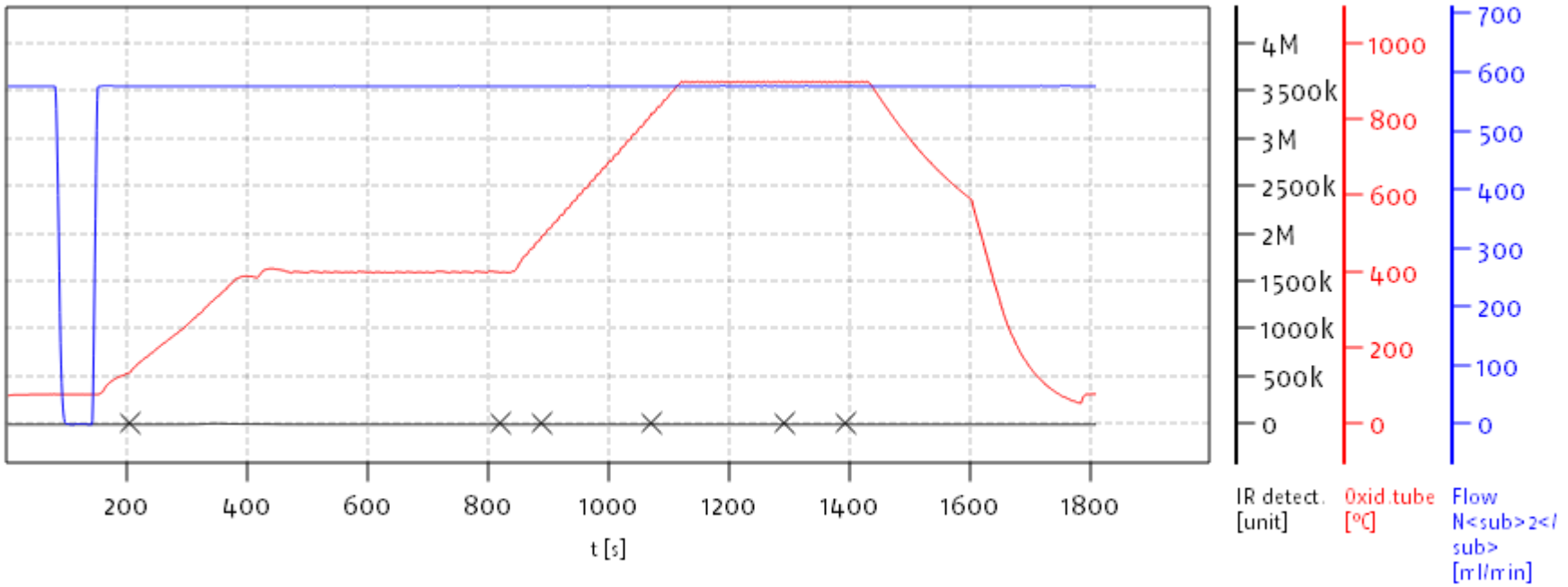
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
80	80	BJH0807-BLK1	643.50		1.00	CARBON	9/3/2021 3:44 AM	0.004	0.000	0.004	bl,C3u,C2u	27 276	797	357	0.9695	1.0000



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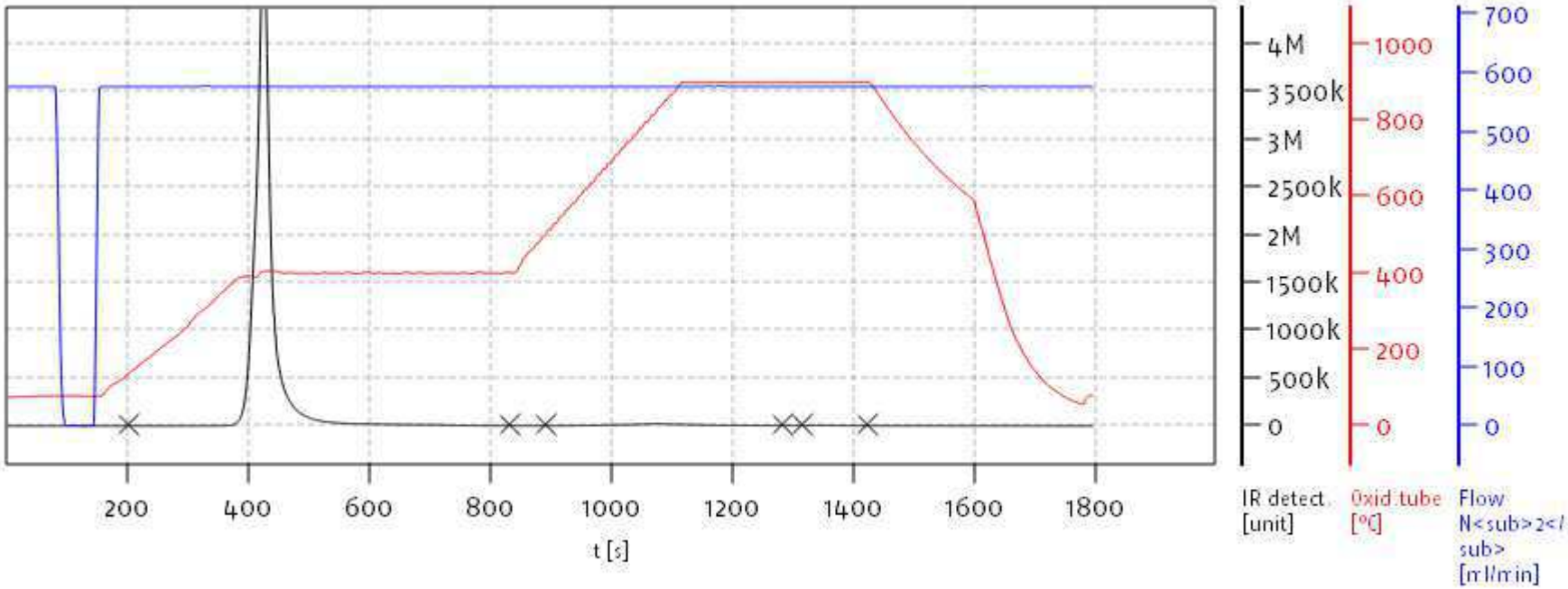
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
81	81	BJH0807-BS1	20.40		1.00	CARBON	9/3/2021 4:14 AM	44.064	0.980	45.044	bl	5 496 470	129 990	16 947	0.9695	1.0000



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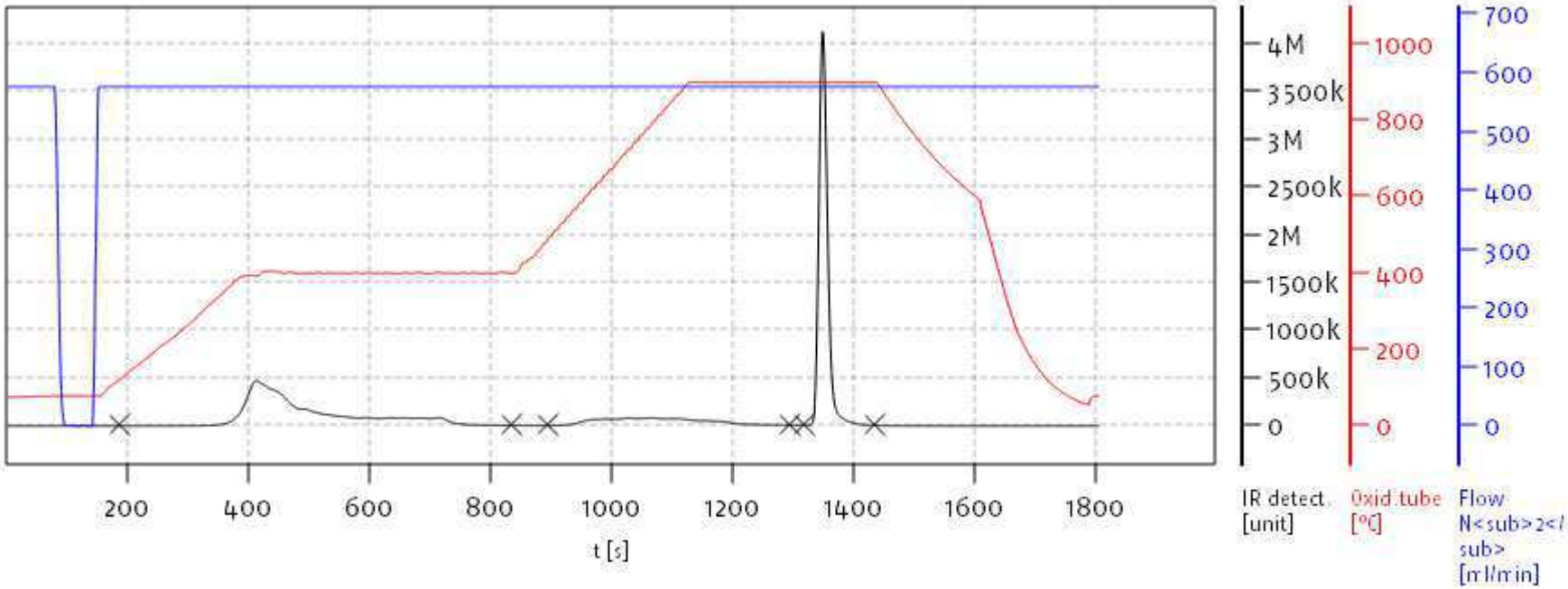
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
82	82	21H0340-31	530.50		1.00	CARBON	9/3/2021 4:45 AM	1.511	0.216	1.727	bl	2 233 330	690 590	2 603 960	0.9695	1.0000



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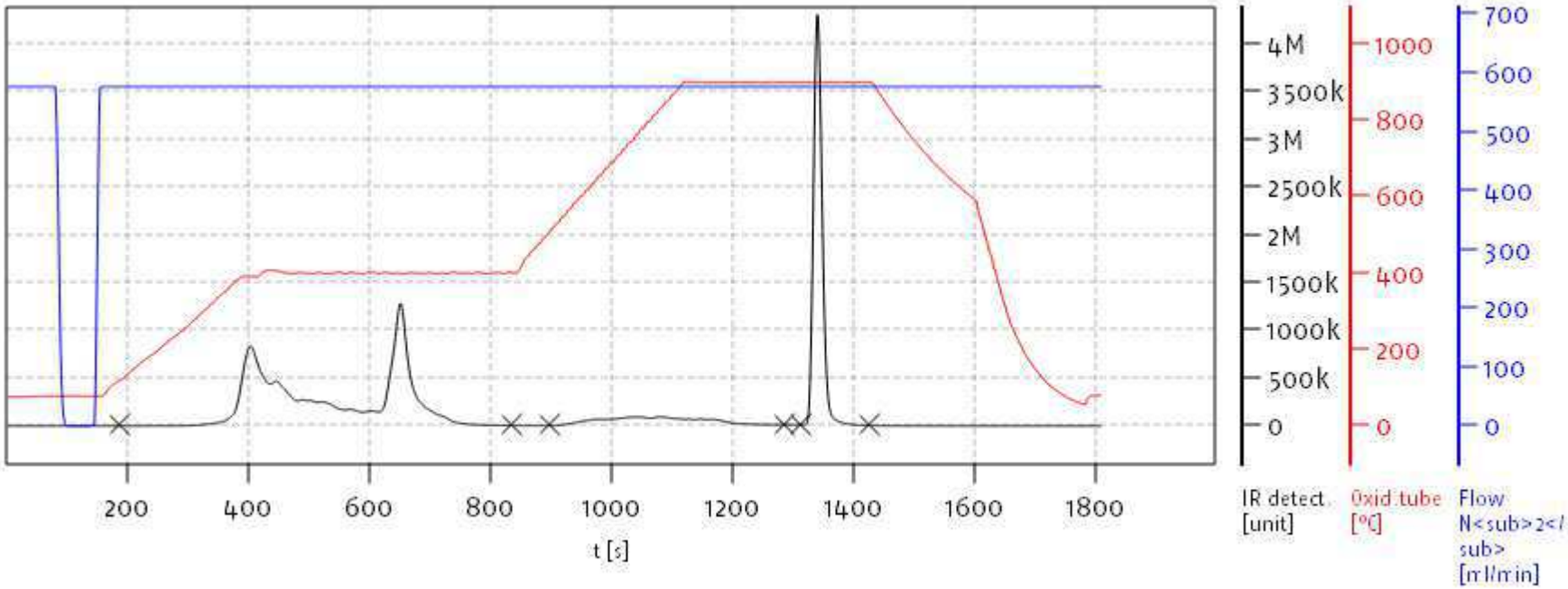
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
83	83	21H0340-33	529.60		1.00	CARBON	9/3/2021 5:15 AM	2.376	0.242	2.618	bl	4 879 440	770 403	2 743 010	0.9695	1.0000



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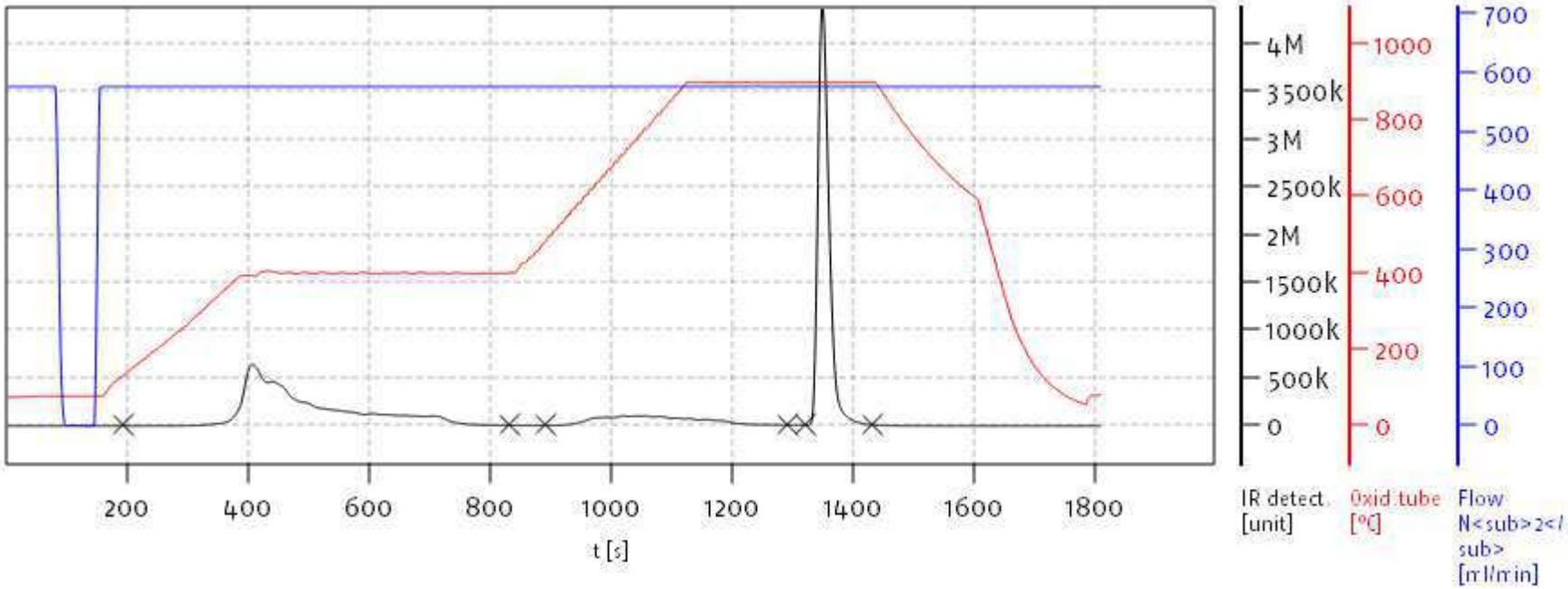
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
84	84	BJH0807-DUP1	504.90		1.00	CARBON	9/3/2021 5:46 AM	2.171	0.274	2.445	bl	3 064 720	829 732	3 542 080	0.9695	1.0000



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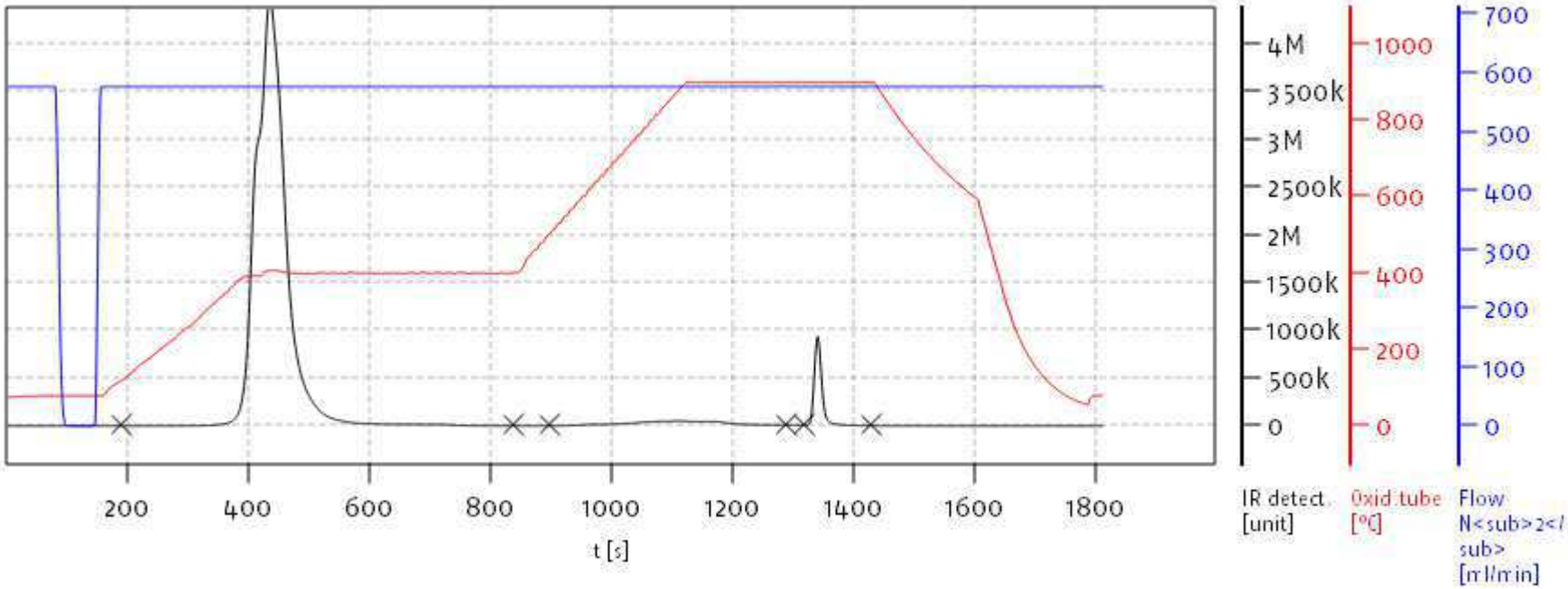
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
85	85	BJH0807-MS1	532.30	0.0093	1.00	CARBON	9/3/2021 6:16 AM	3.077	0.114	3.191	bl,C1o	9 495 300	369 591	516 757	0.9695	1.0000



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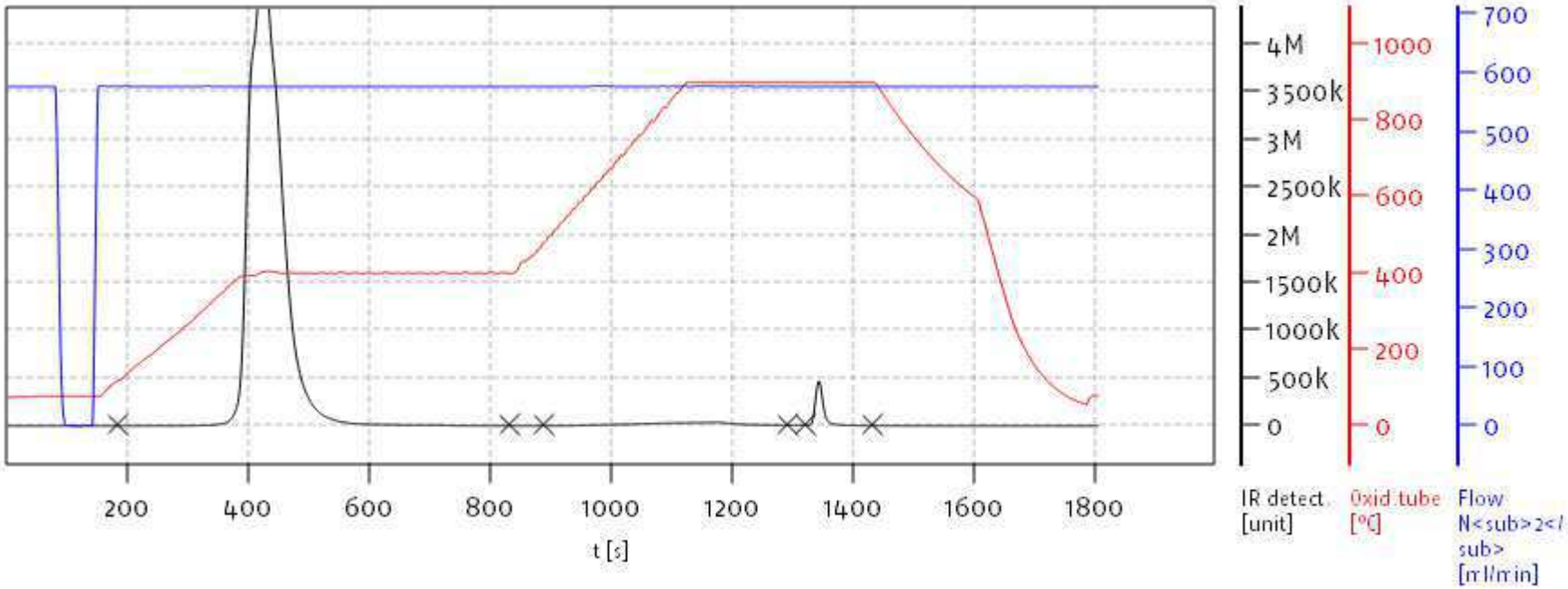
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
86	86	BJH0807-MSD1	536.60	0.0122	1.00	CARBON	9/3/2021 6:47 AM	3.533	0.077	3.610	bl,C1o	11 317 400	257 339	275 317	0.9695	1.0000



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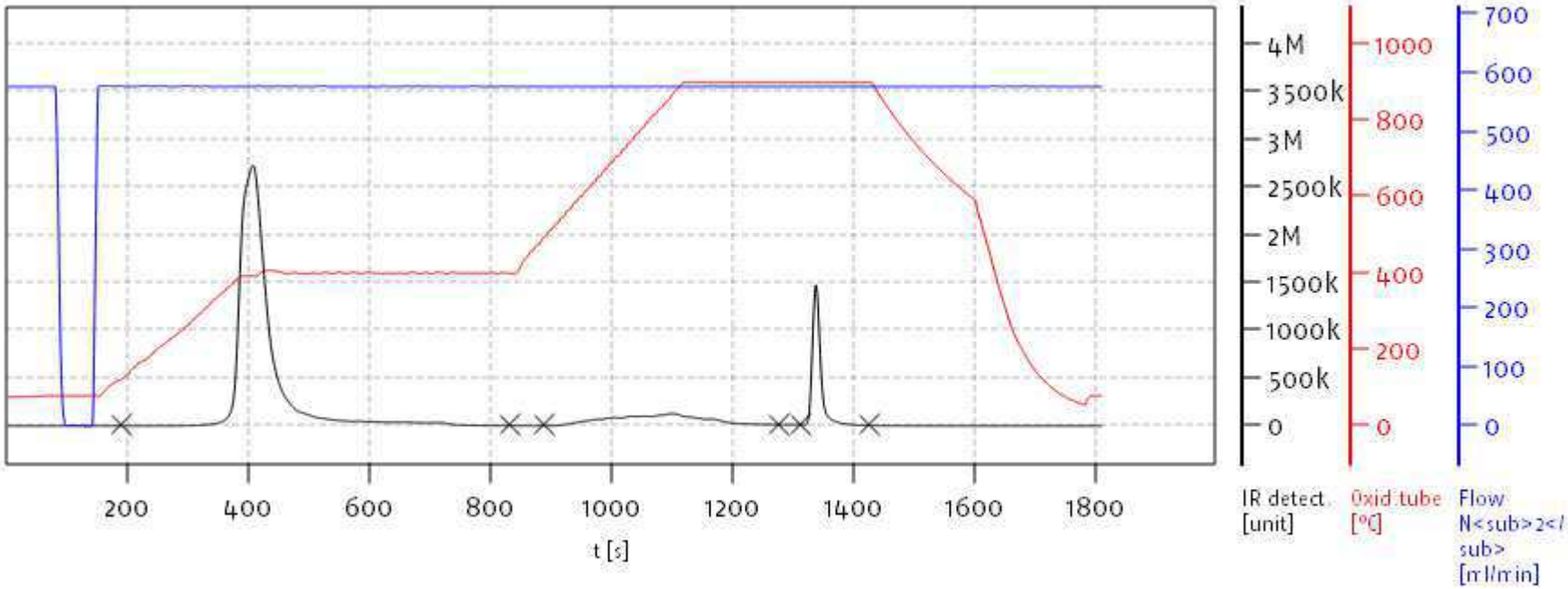
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
87	87	21H0350-04	488.10		1.00	CARBON	9/3/2021 7:18 AM	2.176	0.300	2.476	bl	5 594 510	878 181	887 492	0.9695	1.0000



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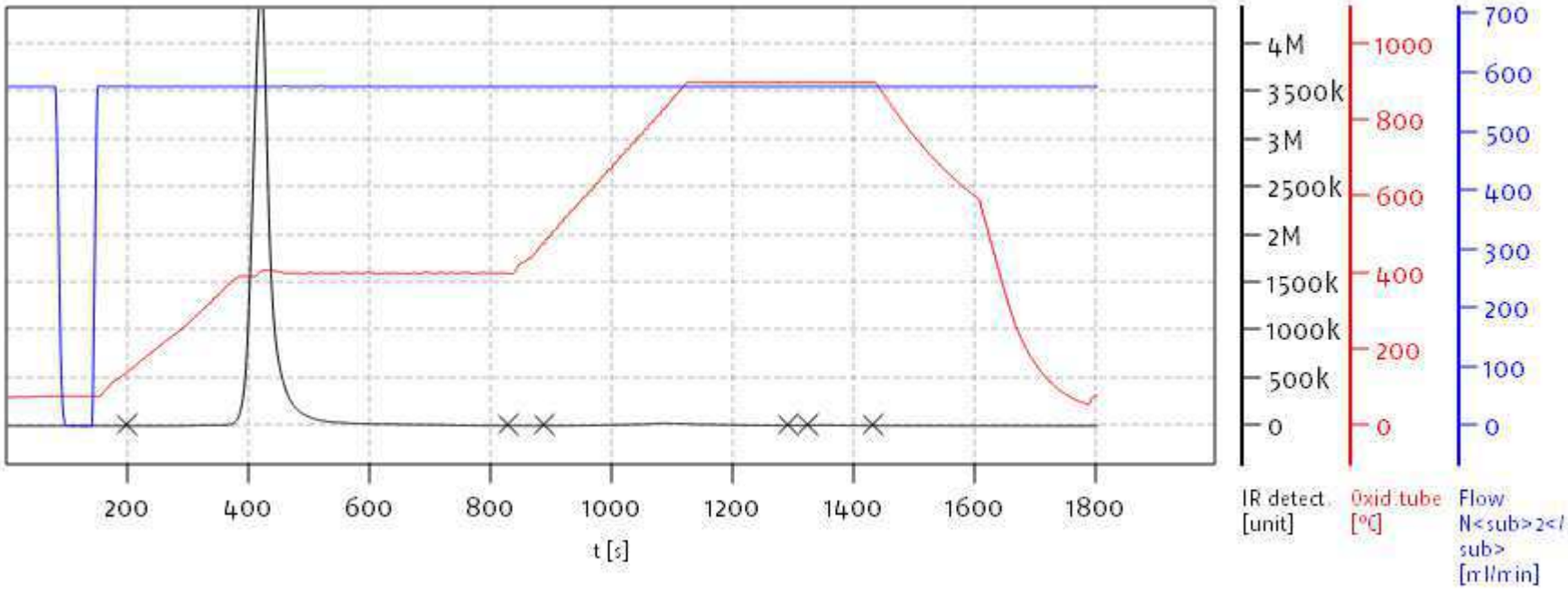
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
88	88	SJH0417-CCV7	22.40		1.00	CARBON	9/3/2021 7:48 AM	43.450	1.147	44.596	bl	5 949 080	163 742	18 486	0.9695	1.0000



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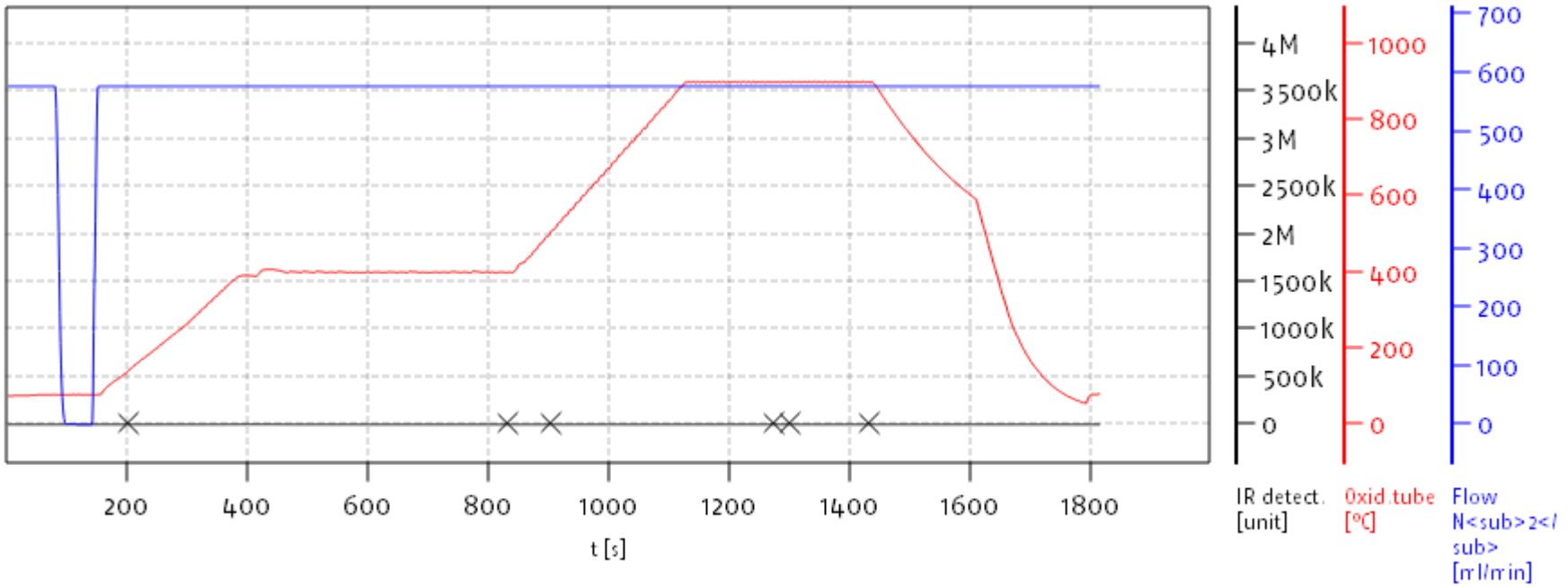
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
89	89	SJH0417-CCB7	620.40		1.00	CARBON	9/3/2021 8:19 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	5 063	425	470	0.9695	1.0000



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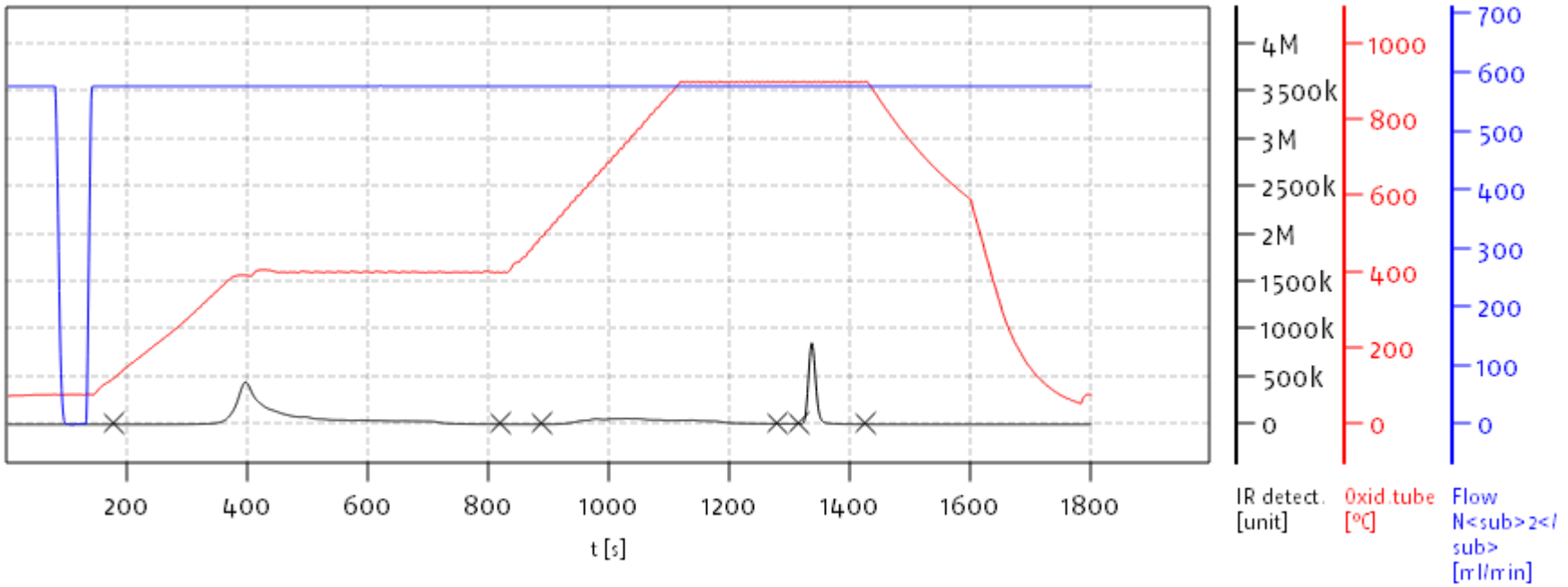
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
90	1	21H0350-08	340.00		1.00	CARBON	9/3/2021 8:49 AM	0.857	0.234	1.090	bl	1 323 280	481 919	464 559	0.9695	1.0000



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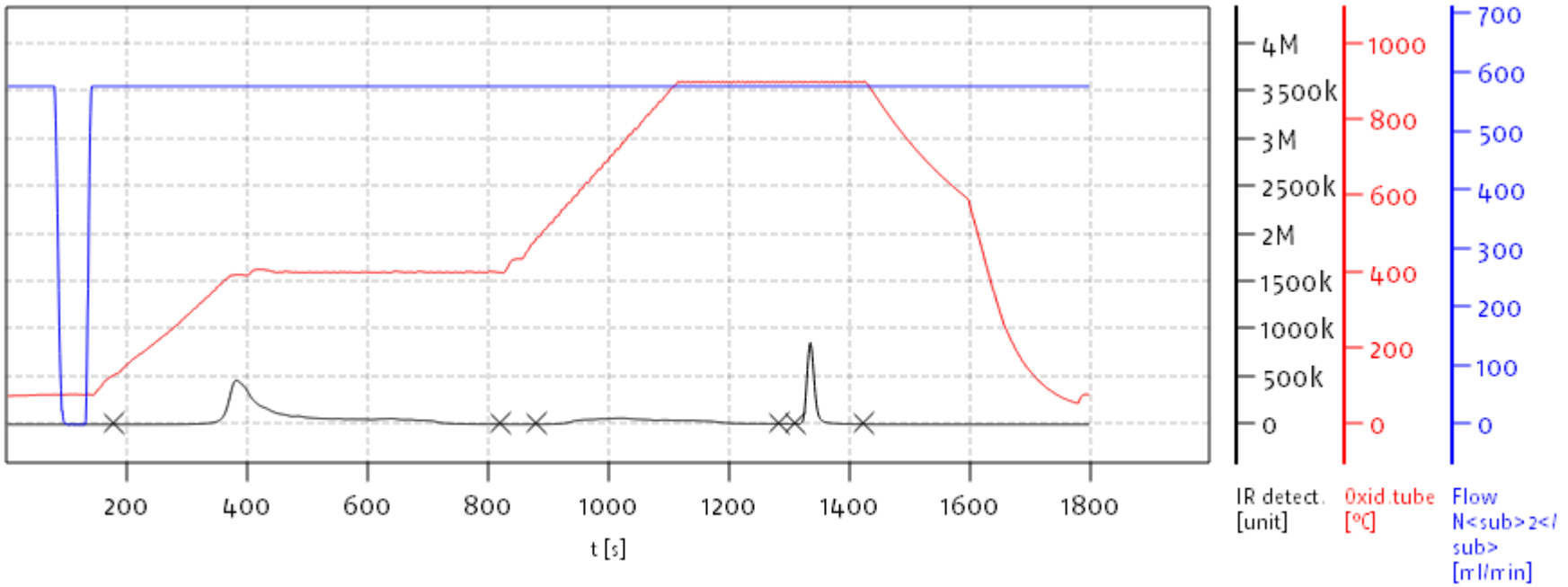
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
91	2	BJH0807-DUP2	318.90		1.00	CARBON	9/3/2021 9:20 AM	1.045	0.253	1.298	bl	1 563 210	488 978	481 545	0.9695	1.0000



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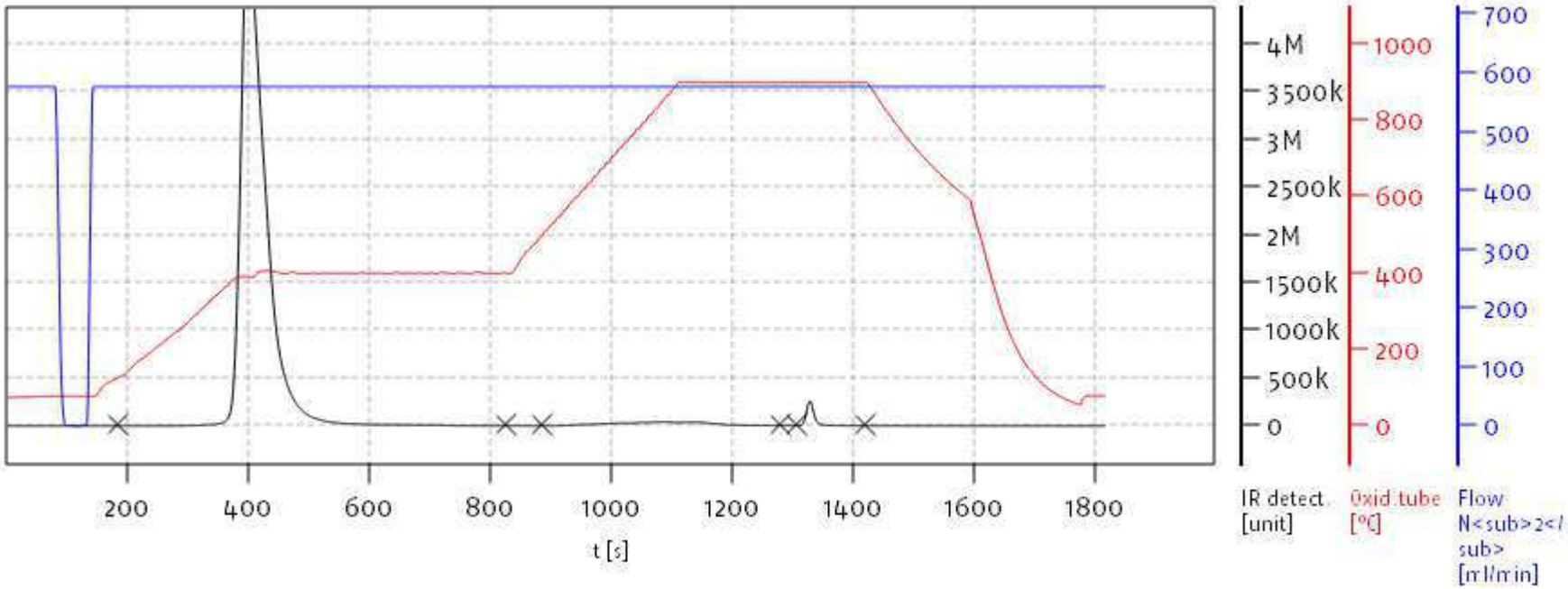
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
92	3	BJH0807-MS2	374.50	0.0140	1.00	CARBON	9/3/2021 9:50 AM	4.031	0.127	4.158	bl,C1o	9 092 430	293 149	147 886	0.9695	1.0000



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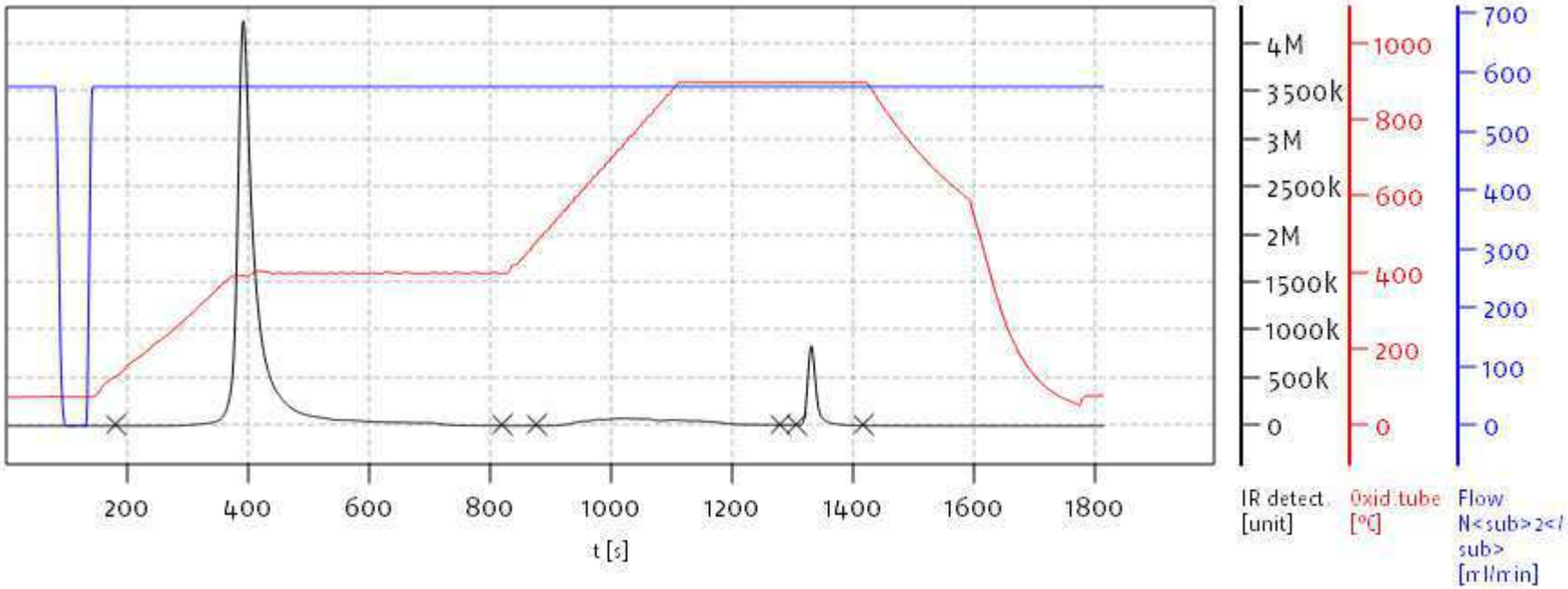
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
93	4	BJH0807-MSD2	387.20	0.0126	1.00	CARBON	9/3/2021 10:21 AM	2.675	0.261	2.936	bl	5 801 620	611 022	530 385	0.9695	1.0000



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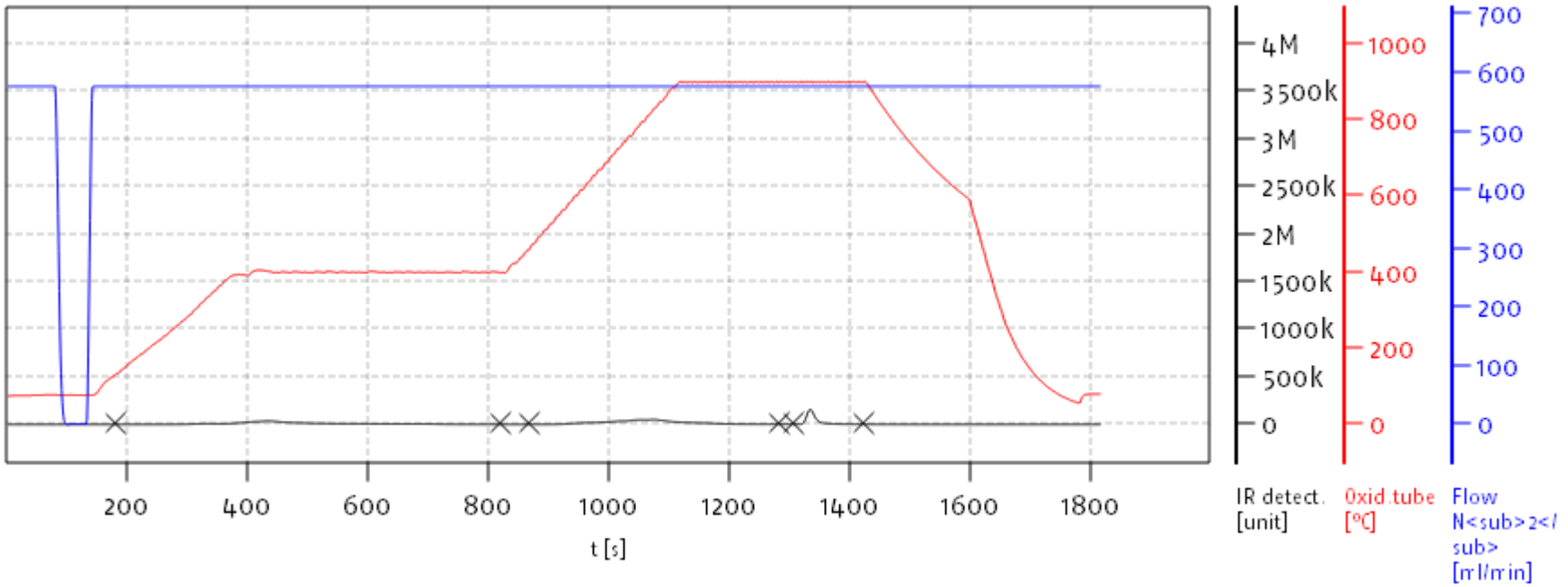
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
94	5	21H0352-01	507.00		1.00	CARBON	9/3/2021 10:52 AM	0.090	0.086	0.177	bl	192 882	270 823	107 095	0.9695	1.0000



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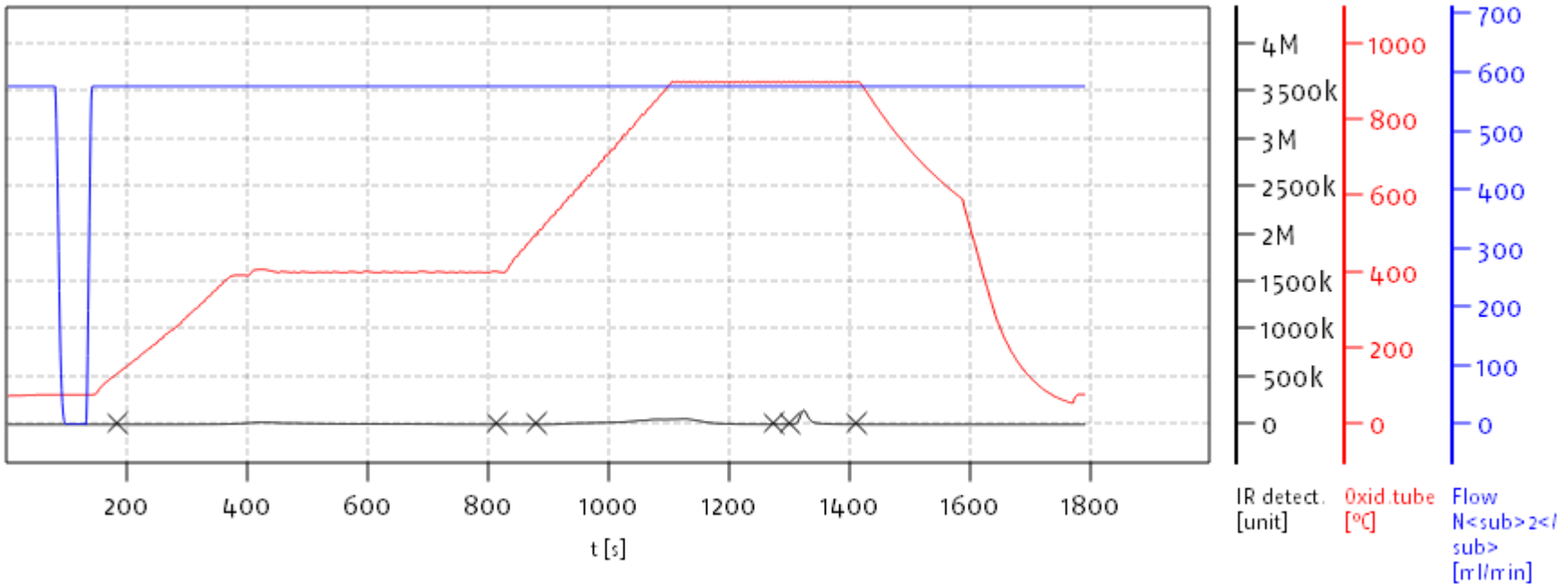
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
95	6	21H0352-02	509.60		1.00	CARBON	9/3/2021 11:22 AM	0.065	0.103	0.168	bl	123 396	322 075	99 756	0.9695	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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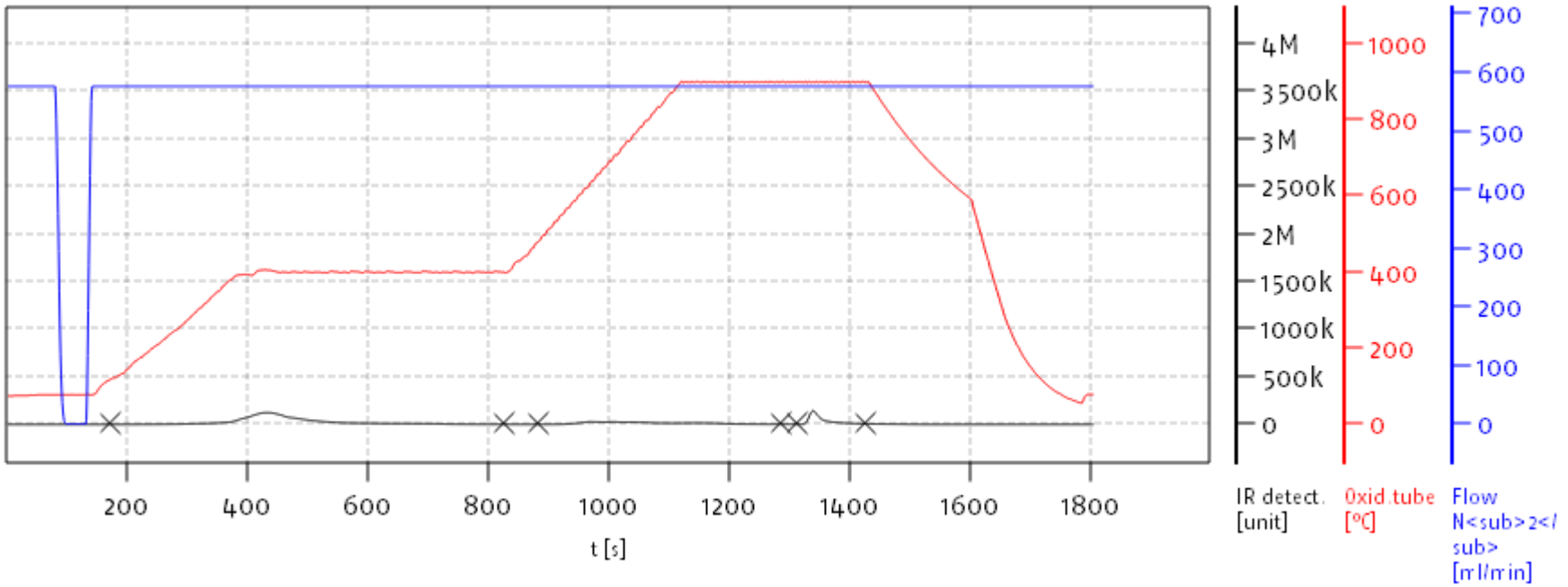
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
96	7	21H0352-03	508.00		1.00	CARBON	9/3/2021 11:52 AM	0.225	0.060	0.285	bl	570 878	191 038	146 786	0.9695	1.0000



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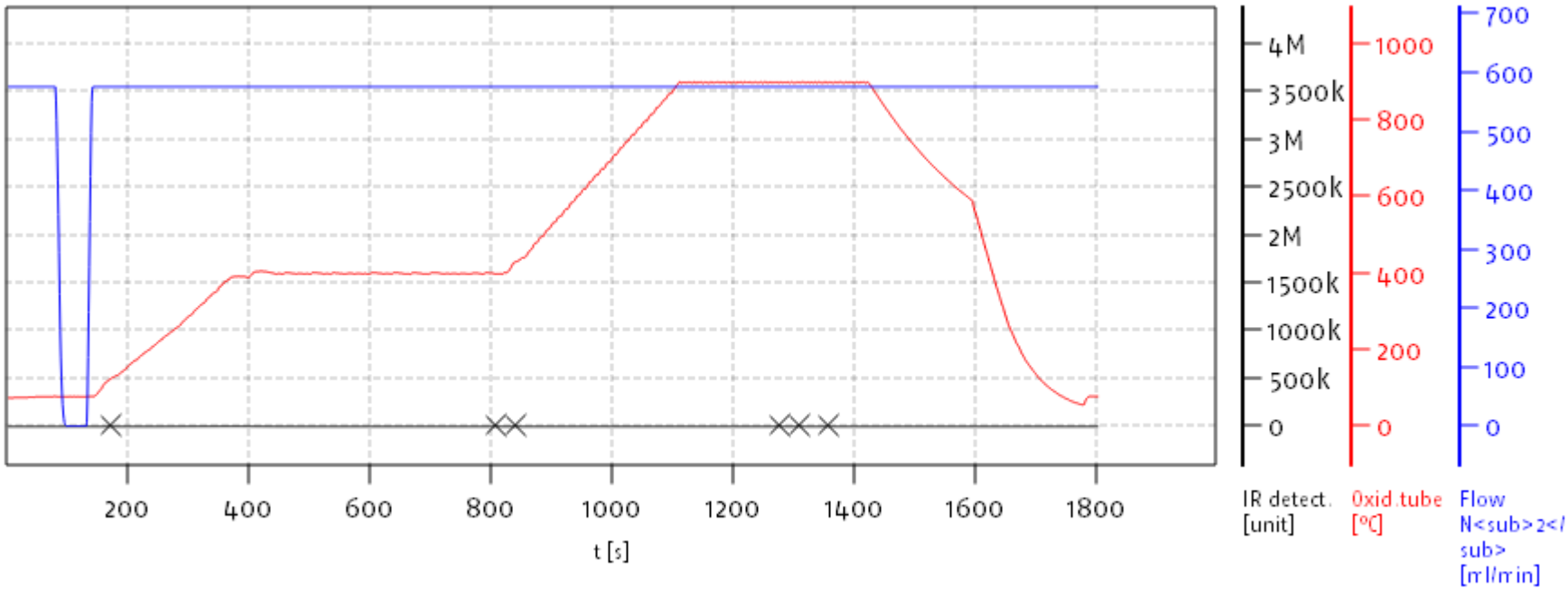
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		1.00	CARBON	9/3/2021 12:23 PM	0.000	0.000	0.000	bl	13 281	3 010	101	0.9695	1.0000



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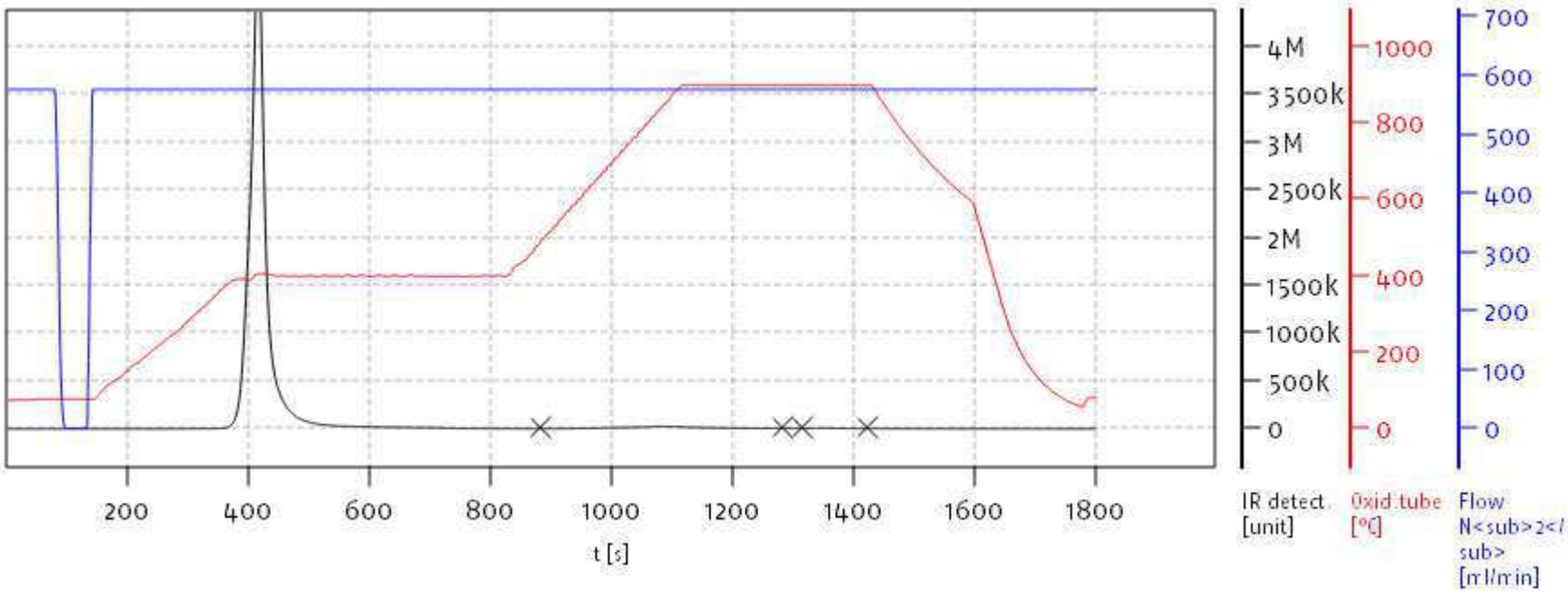
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
98	9	Dfactor	21.50		1.00	CARBON	9/3/2021 12:53 PM	0.062	1.117	1.178		0	153 864	19 501	1.0000	1.0000



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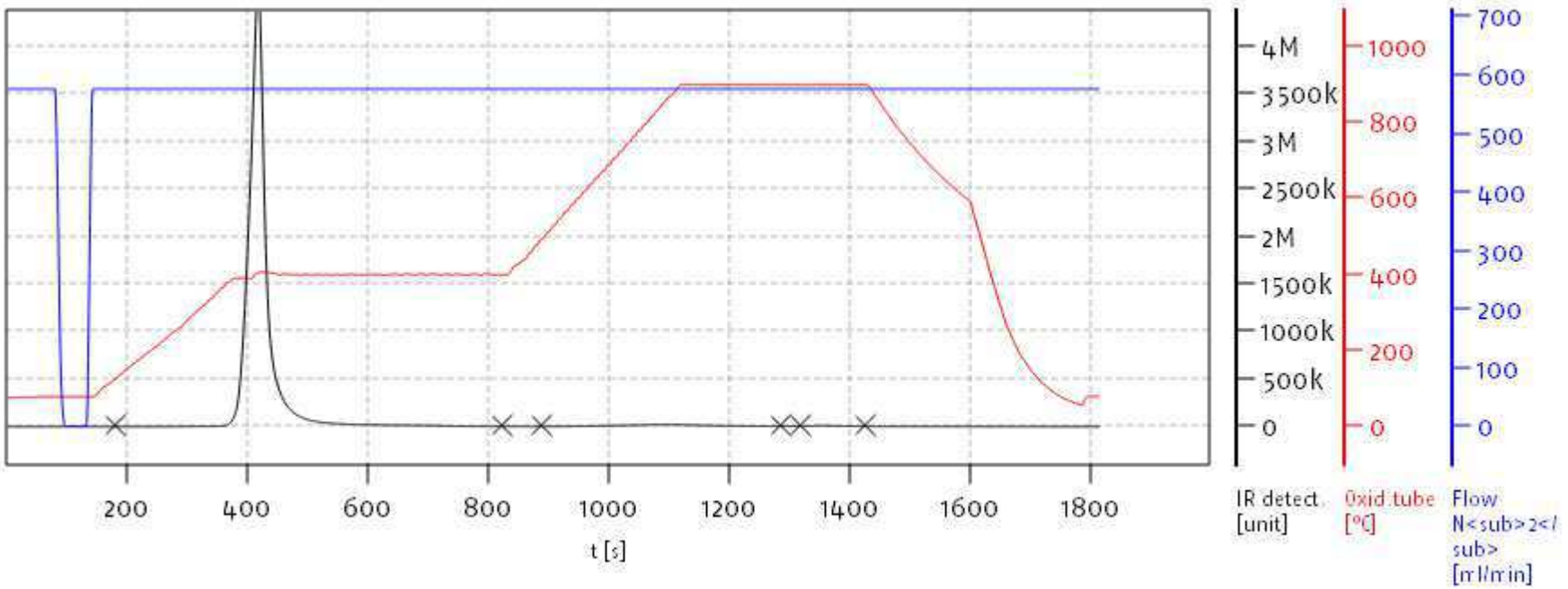
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
99	10	Dfactor	21.40		1.00	CARBON	9/3/2021 1:24 PM	44.552	1.104	45.655	bl	5 680 790	151 525	25 097	0.9934	1.0000



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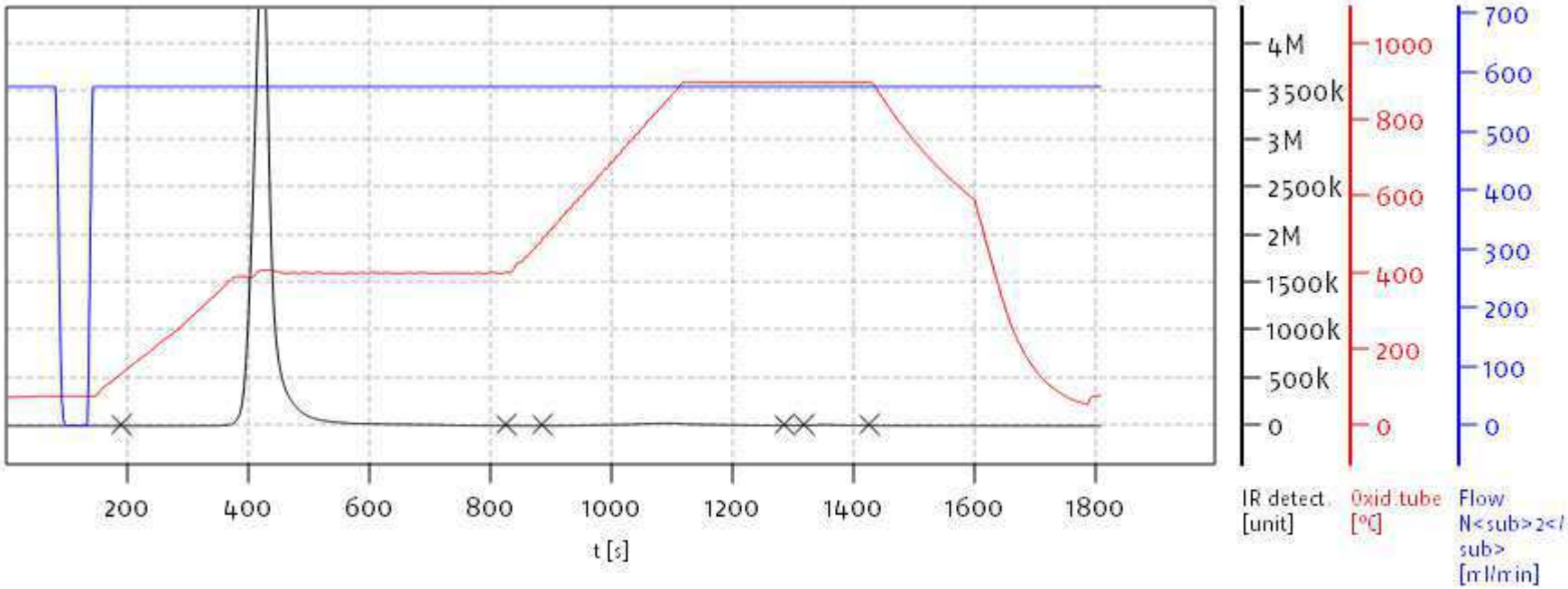
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
100	11	SJH0417-CCV8	24.30		1.00	CARBON	9/3/2021 1:55 PM	44.902	1.087	45.988	bl	6 502 360	168 032	24 323	0.9934	1.0000



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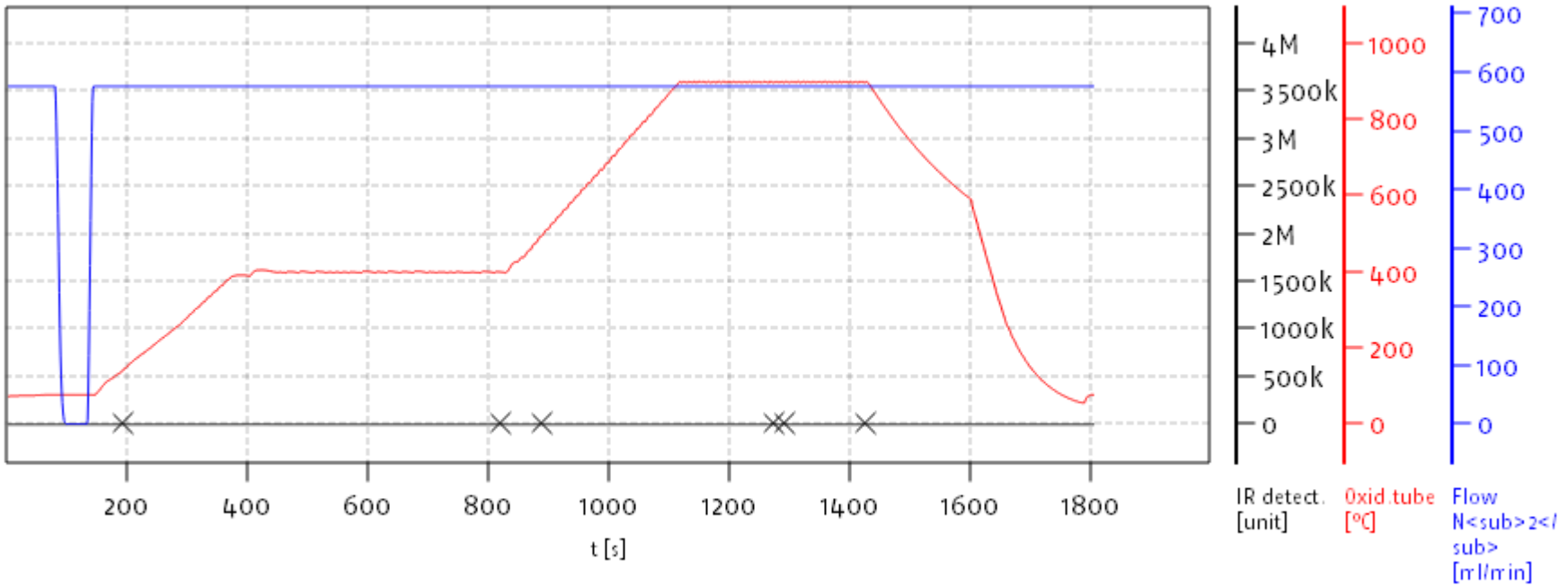
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
101	12	SJH0417-CCB8	577.30		1.00	CARBON	9/3/2021 2:25 PM	0.000	0.000	0.000	bl,C1u,C3u,C2u	2 593	182	600	0.9934	1.0000



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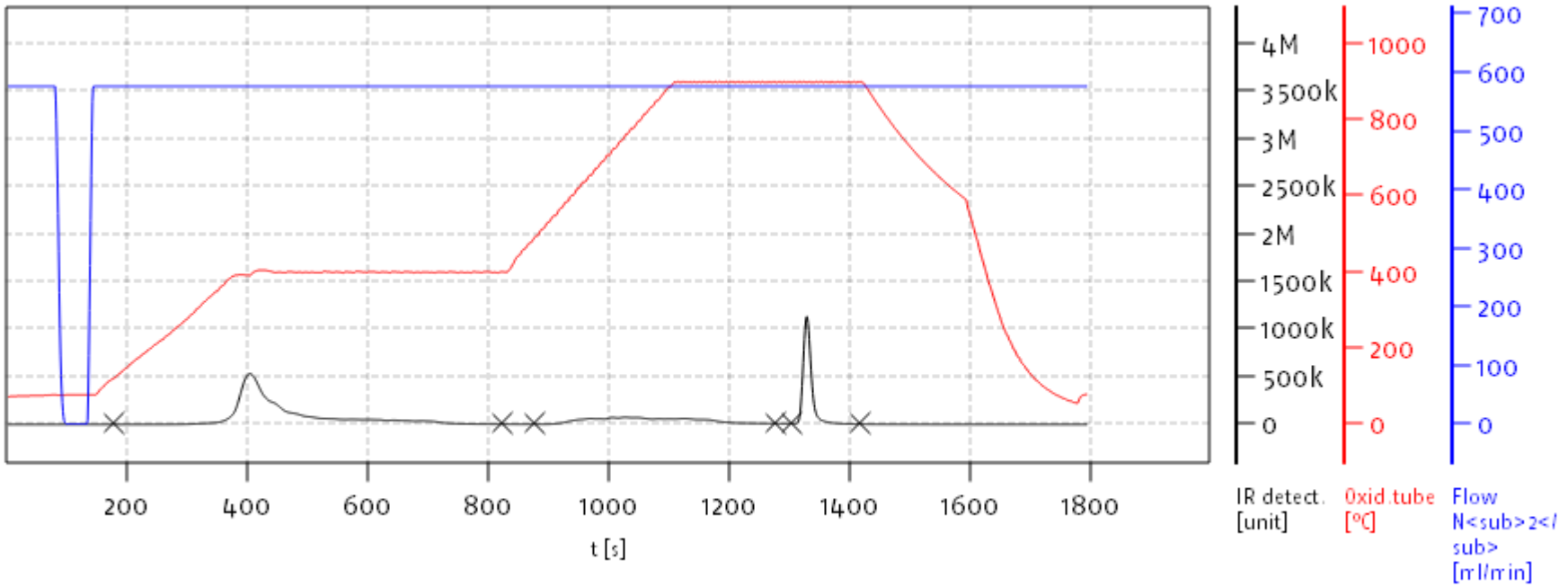
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
102	13	21H0352-07	502.40		1.00	CARBON	9/3/2021 2:56 PM	0.780	0.203	0.983	bl	1 677 240	614 581	678 381	0.9934	1.0000



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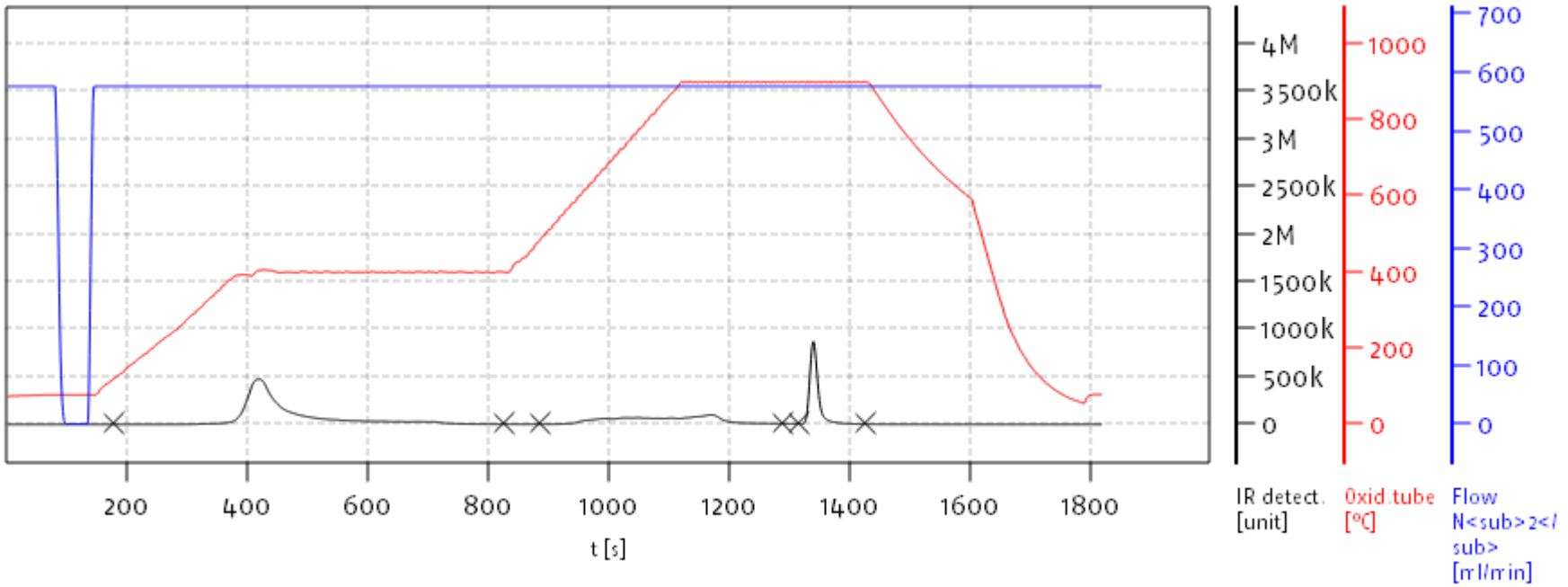
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
103	14	BJH0807-DUP3	501.90		1.00	CARBON	9/3/2021 3:26 PM	0.645	0.221	0.866	bl	1 415 080	669 466	533 841	0.9934	1.0000



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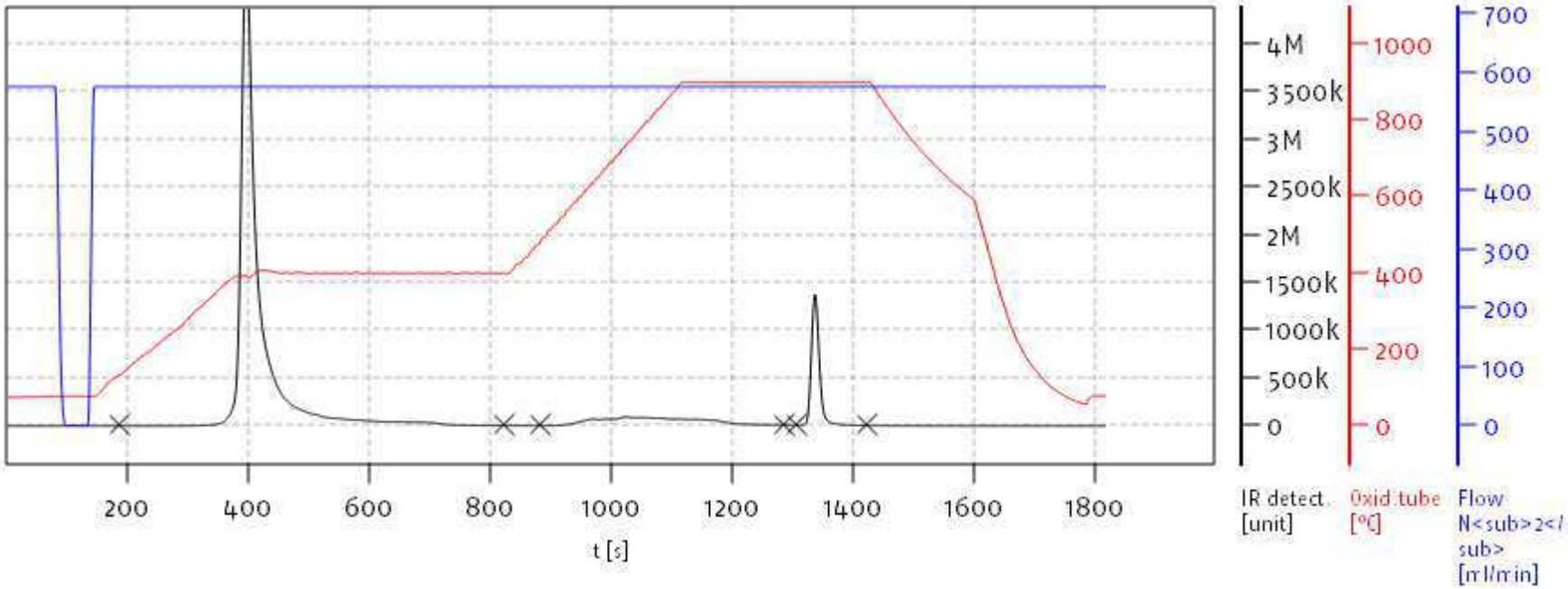
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
104	15	BJH0807-MS3	564.90	0.0155	1.00	CARBON	9/3/2021 3:57 PM	2.016	0.216	2.232	bl	6 000 240	735 816	805 479	0.9934	1.0000



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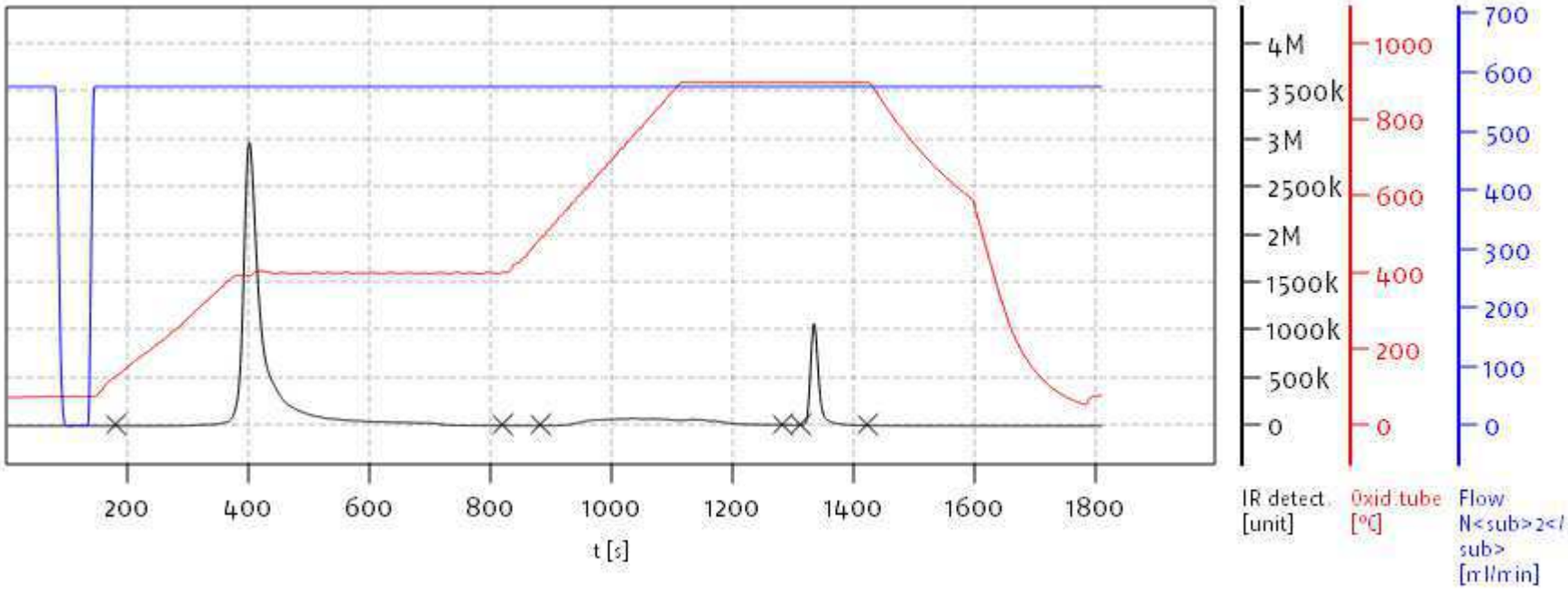
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
105	16	BJH0807-MSD3	521.10	0.0100	1.00	CARBON	9/3/2021 4:28 PM	1.552	0.207	1.758	bl	4 187 490	650 118	650 615	0.9934	1.0000



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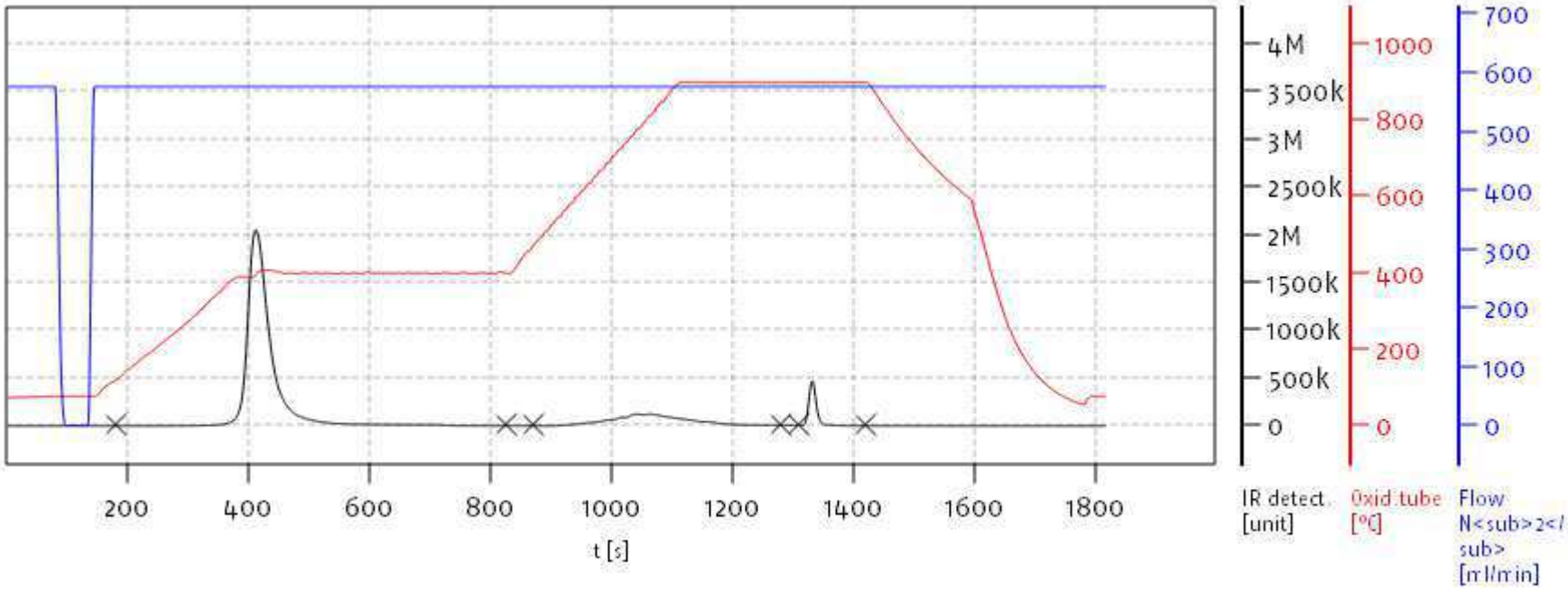
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
106	17	21H0352-08	525.90		1.00	CARBON	9/3/2021 4:58 PM	1.147	0.217	1.364	bl	3 360 850	686 288	256 996	0.9934	1.0000



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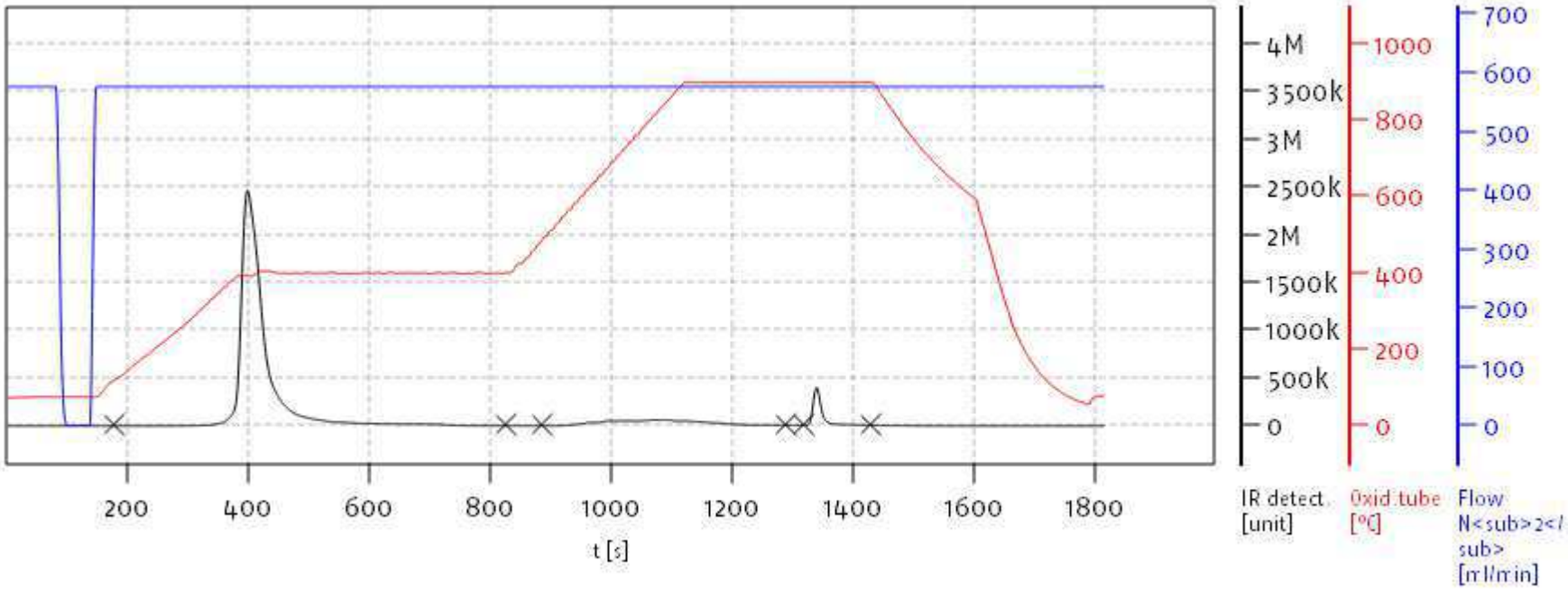
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
107	18	21H0078-32	505.20		1.00	CARBON	9/3/2021 5:29 PM	1.405	0.154	1.560	bl	3 991 000	473 572	262 050	0.9934	1.0000



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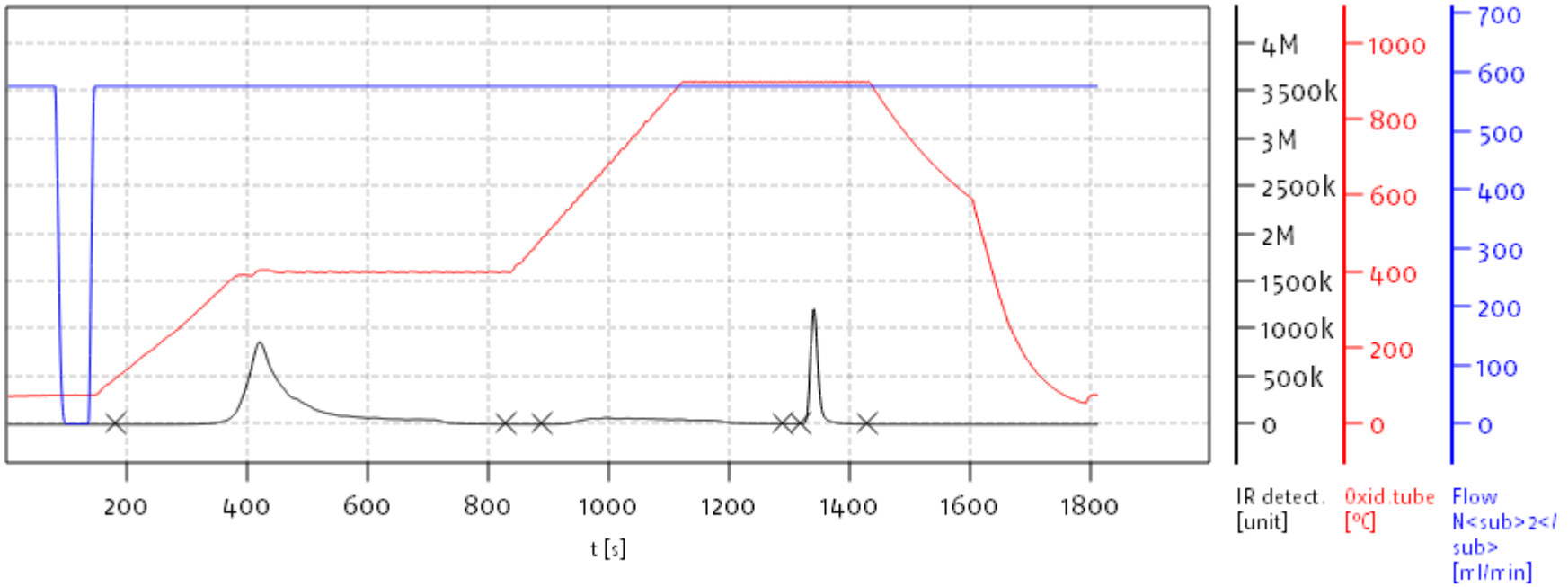
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
108	19	21H0078-34	503.30		1.00	CARBON	9/3/2021 6:00 PM	1.149	0.178	1.327	bl	2 771 310	542 174	694 723	0.9934	1.0000



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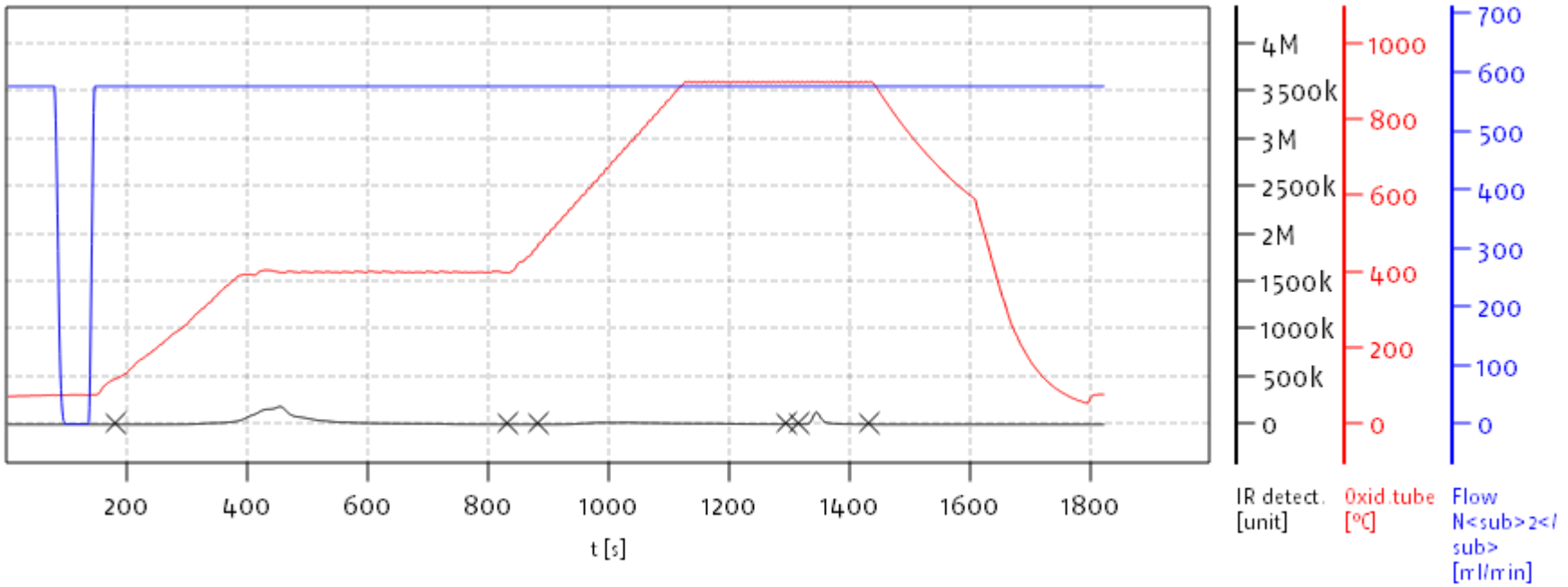
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
109	20	BJH0434-DUP5	640.30		1.00	CARBON	9/3/2021 6:31 PM	0.202	0.035	0.236	bl	704 426	142 797	88 777	0.9934	1.0000



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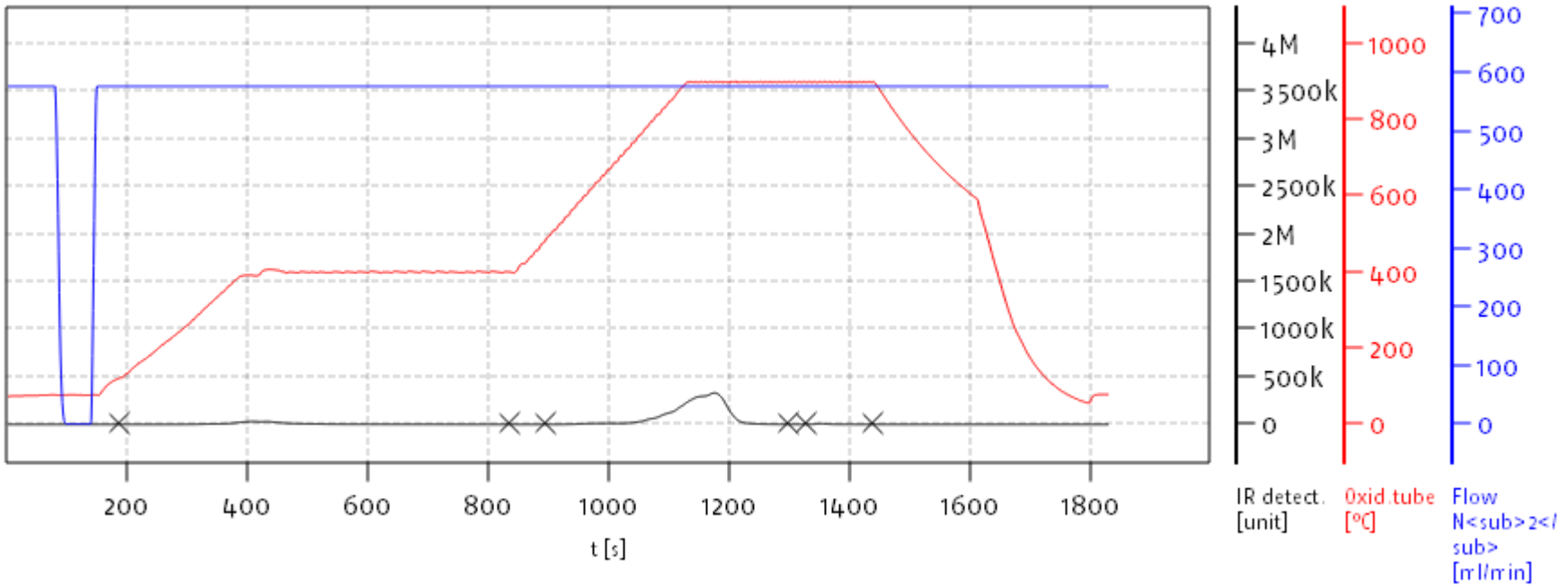
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
110	21	21H0089-02RE1	178.50		1.00	CARBON	9/3/2021 7:02 PM	0.110	1.108	1.219	bl	129 071	1 182 940	8 754	0.9934	1.0000



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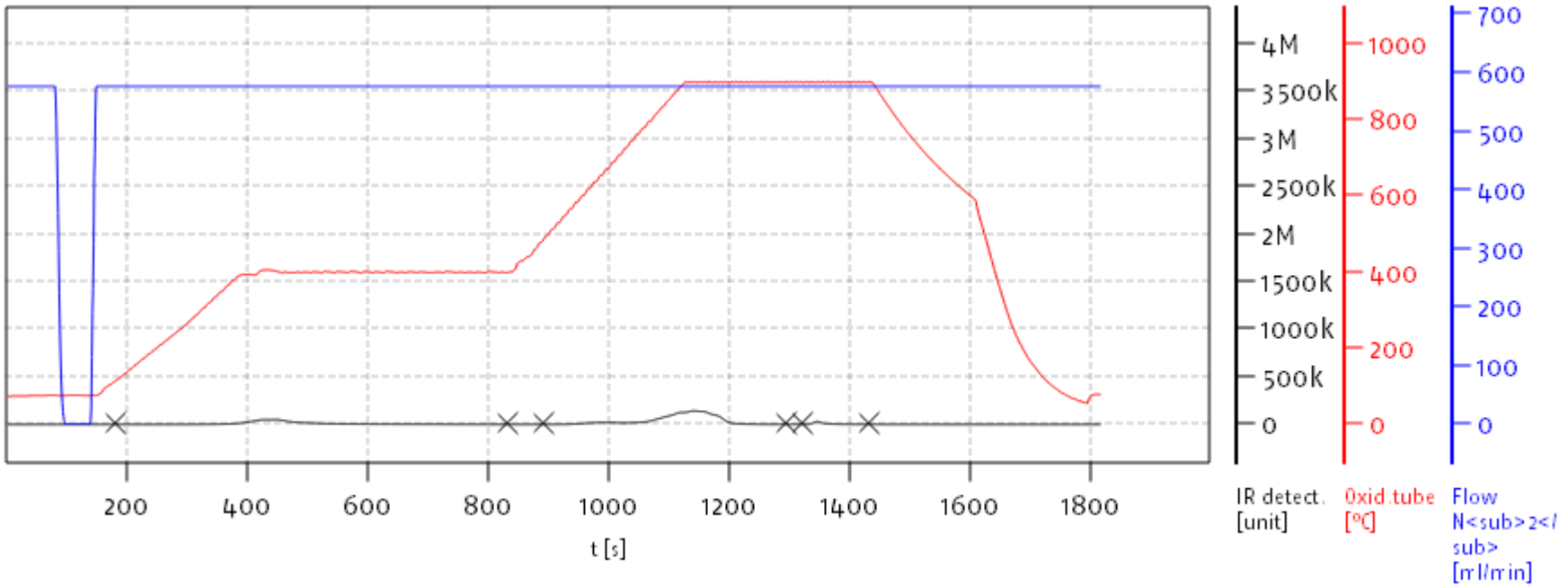
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
111	22	BJH0435-DUP2	506.40		1.00	CARBON	9/3/2021 7:32 PM	0.067	0.191	0.258	bl	199 576	585 675	25 656	0.9934	1.0000



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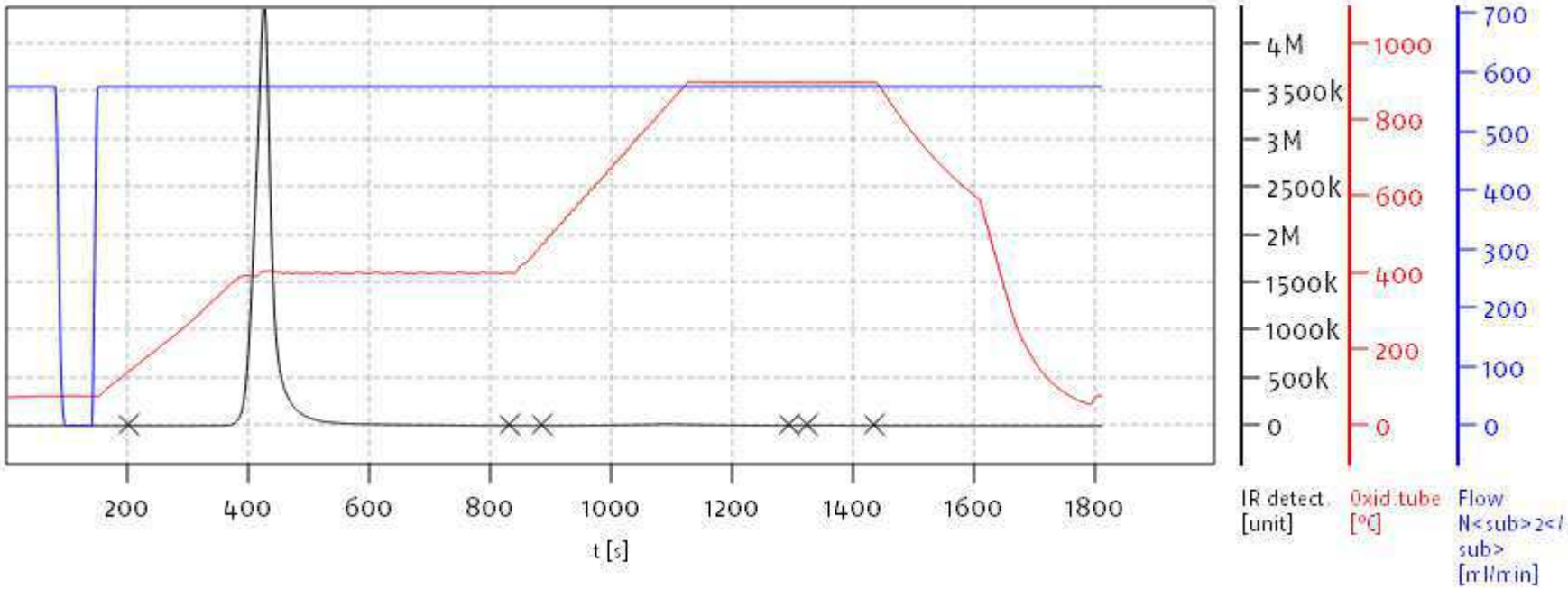
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
112	23	SJH0417-CCV9	20.60		1.00	CARBON	9/3/2021 8:03 PM	44.885	0.853	45.739	bl	5 517 480	115 775	16 972	0.9934	1.0000



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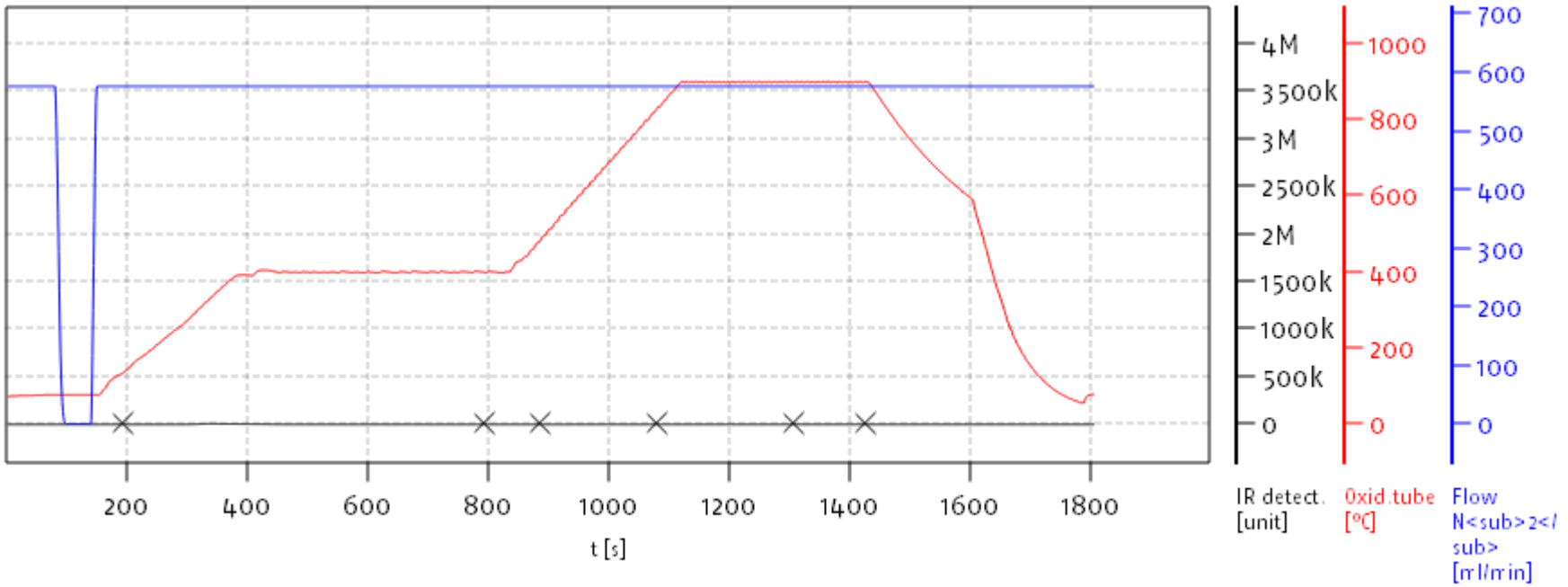
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
113	24	SJH0417-CCB9	542.20		1.00	CARBON	9/3/2021 8:33 PM	0.004	0.000	0.004	bl,C3u,C2u	24 910	589	247	0.9934	1.0000



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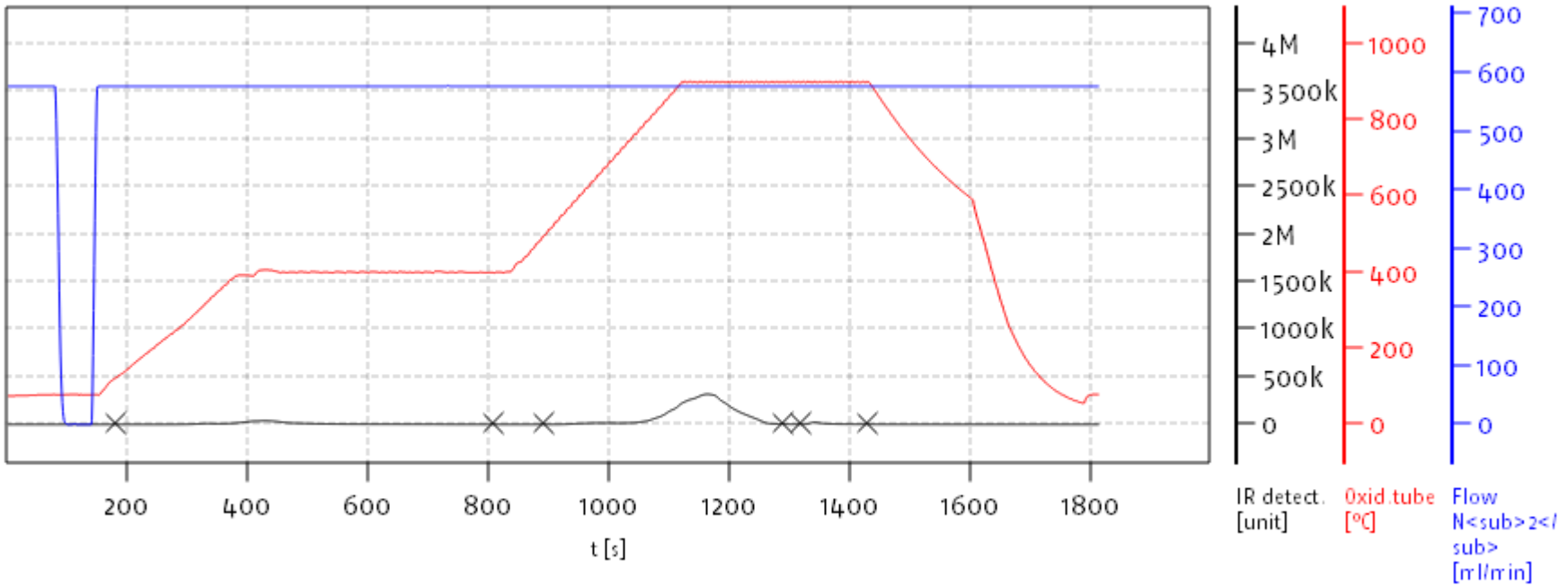
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
114	25	21H0089-11RE1	326.10		1.00	CARBON	9/3/2021 9:04 PM	0.088	0.697	0.785	bl	166 944	1 357 640	26 706	0.9934	1.0000



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Serial No: 0300.181017
Mode CCC

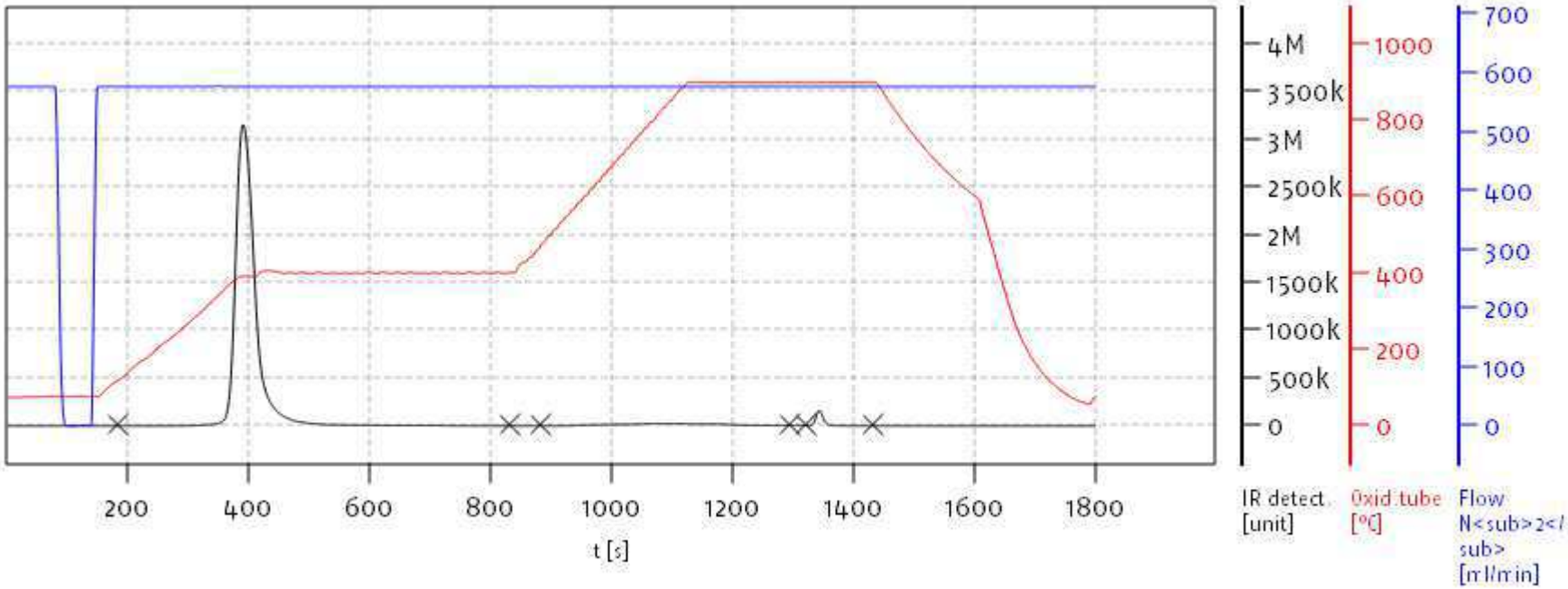
elementar
EXCELLENCE IN ELEMENTS

Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
115	26	21H0140-09RE1	281.30		1.00	CARBON	9/3/2021 9:34 PM	2.658	0.106	2.764	bl	4 392 200	188 321	87 875	0.9934	1.0000



Name:

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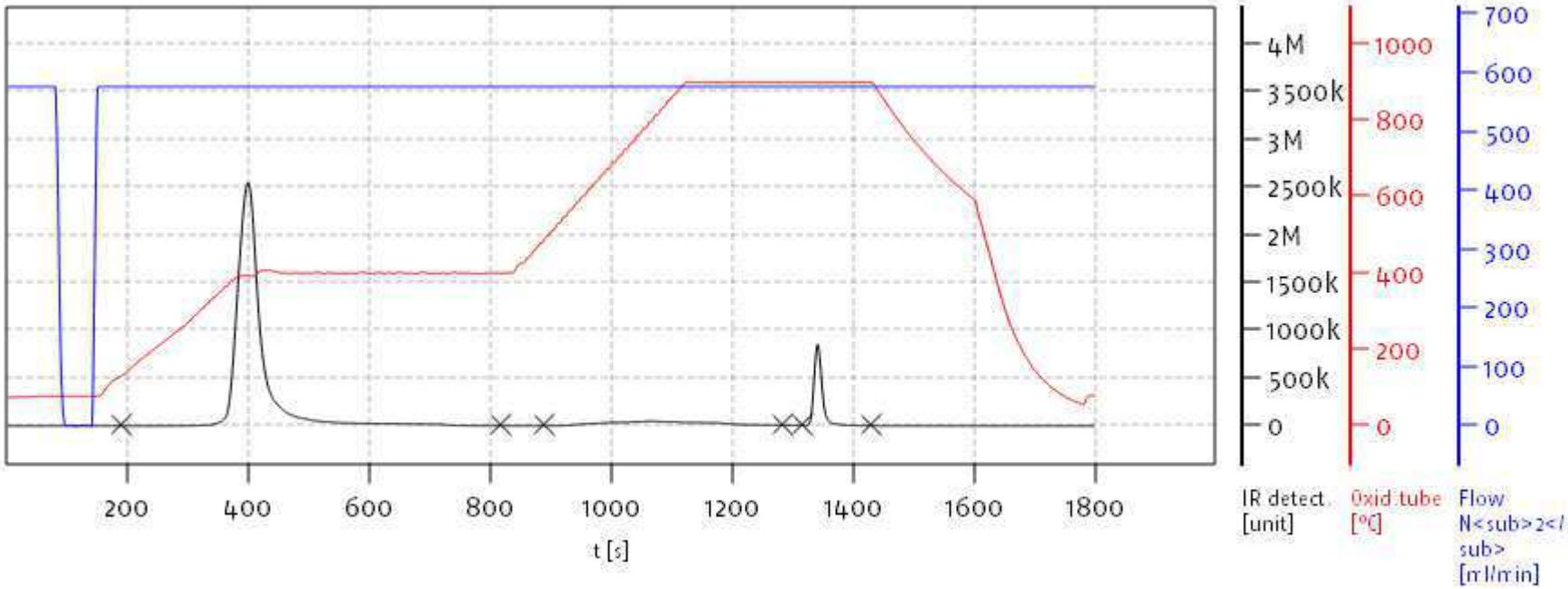
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
116	27	21H0184-16RE1	268.10		1.00	CARBON	9/3/2021 10:05 PM	2.940	0.227	3.167	bl	4 219 730	372 042	498 197	0.9934	1.0000



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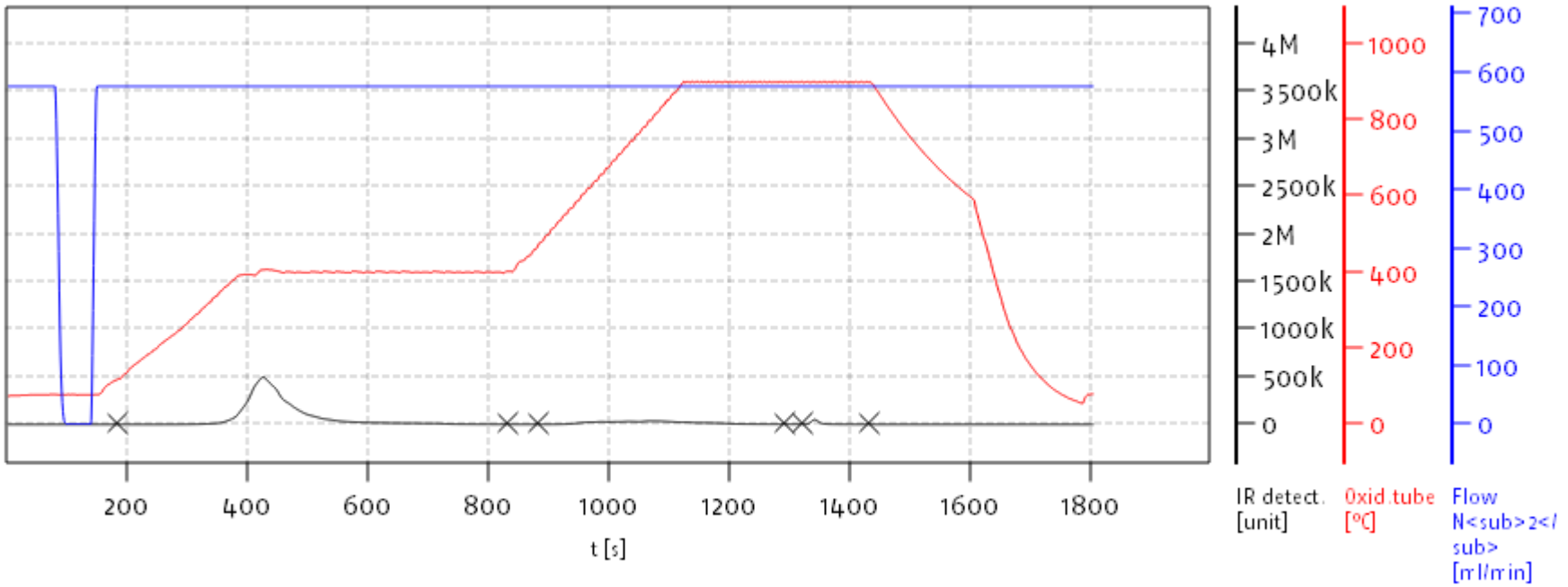
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
117	28	BJH0513-DUP4	557.20		1.00	CARBON	9/3/2021 10:35 PM	0.471	0.072	0.544	bl	1 556 930	250 483	31 935	0.9934	1.0000



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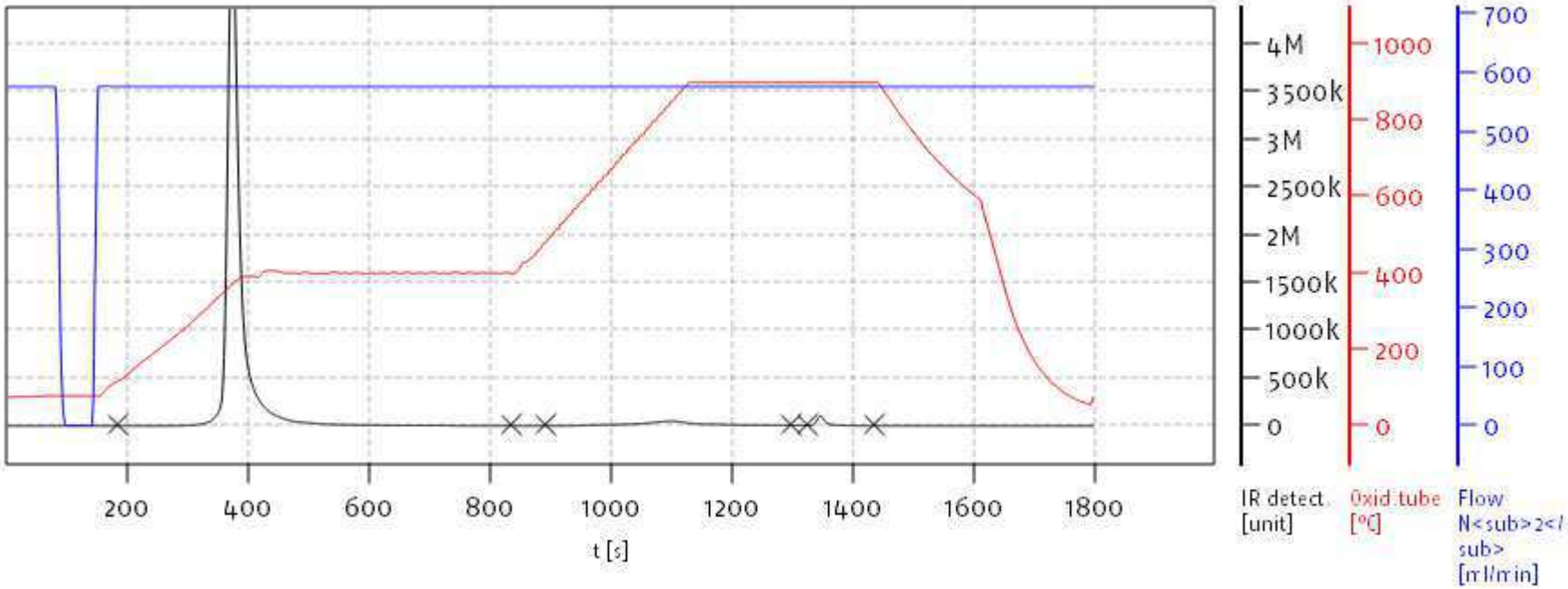
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
118	29	21H0260-01RE1	87.40		1.00	CARBON	9/3/2021 11:06 PM	9.323	0.436	9.760	bl	4 809 280	237 538	70 533	0.9934	1.0000



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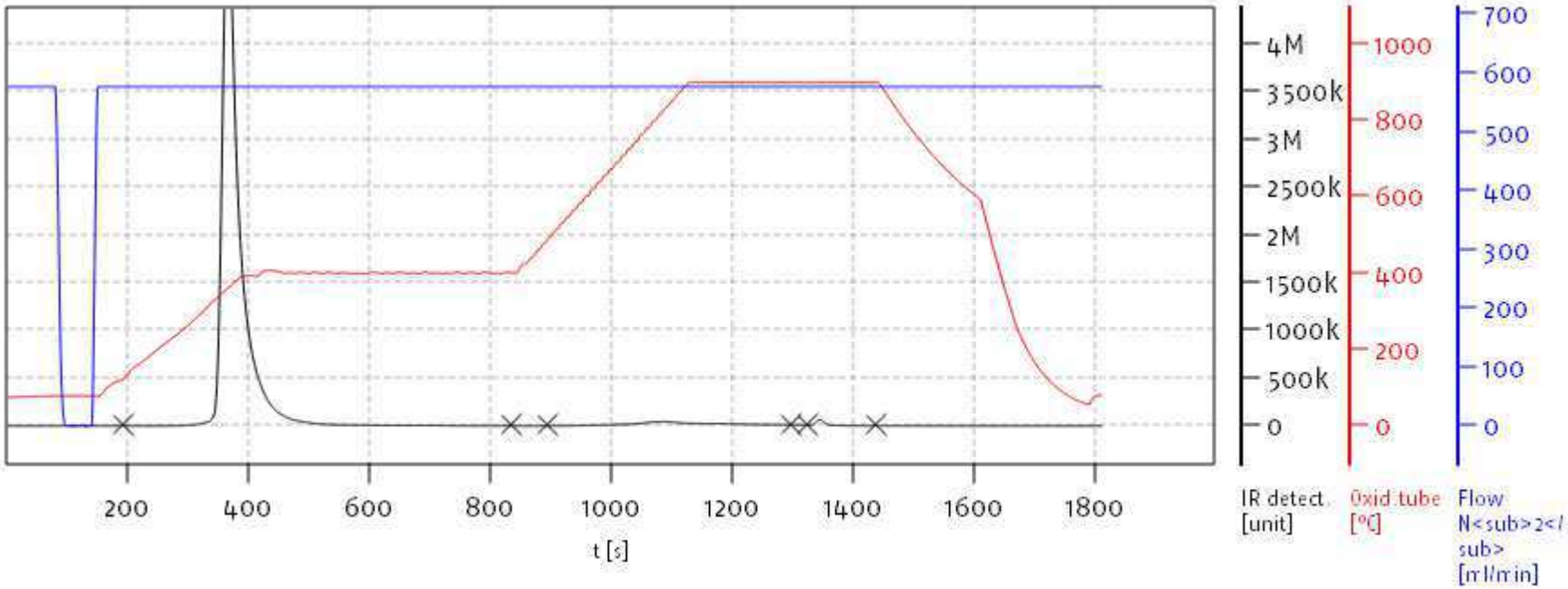
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
119	30	21H0260-02RE1	63.60		1.00	CARBON	9/3/2021 11:36 PM	17.777	0.688	18.466	bl	6 713 090	270 882	49 004	0.9934	1.0000



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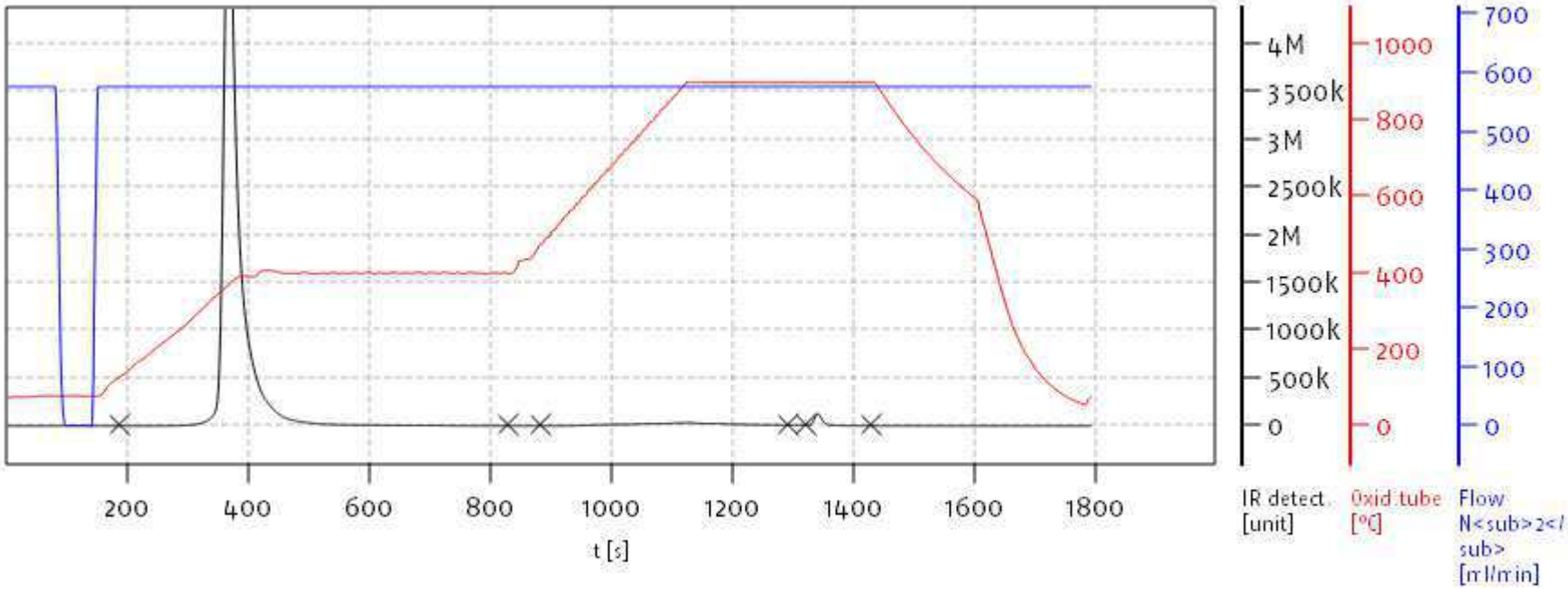
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
120	31	21H0261-01RE1	72.60		1.00	CARBON	9/4/2021 12:07 AM	14.733	0.515	15.248	bl	6 318 590	232 862	79 747	0.9934	1.0000



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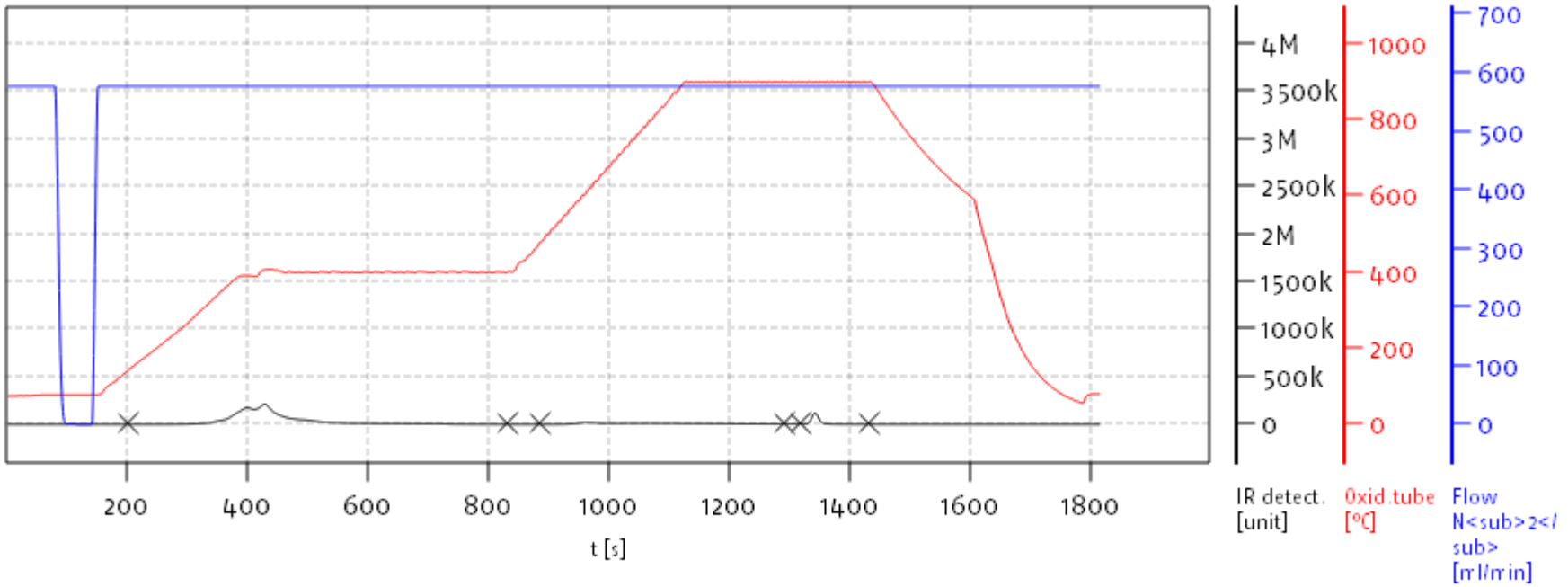
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
121	32	21H0262-01RE1	68.20		1.00	CARBON	9/4/2021 12:37 AM	2.000	0.313	2.313	bl	767 177	138 246	68 653	0.9934	1.0000



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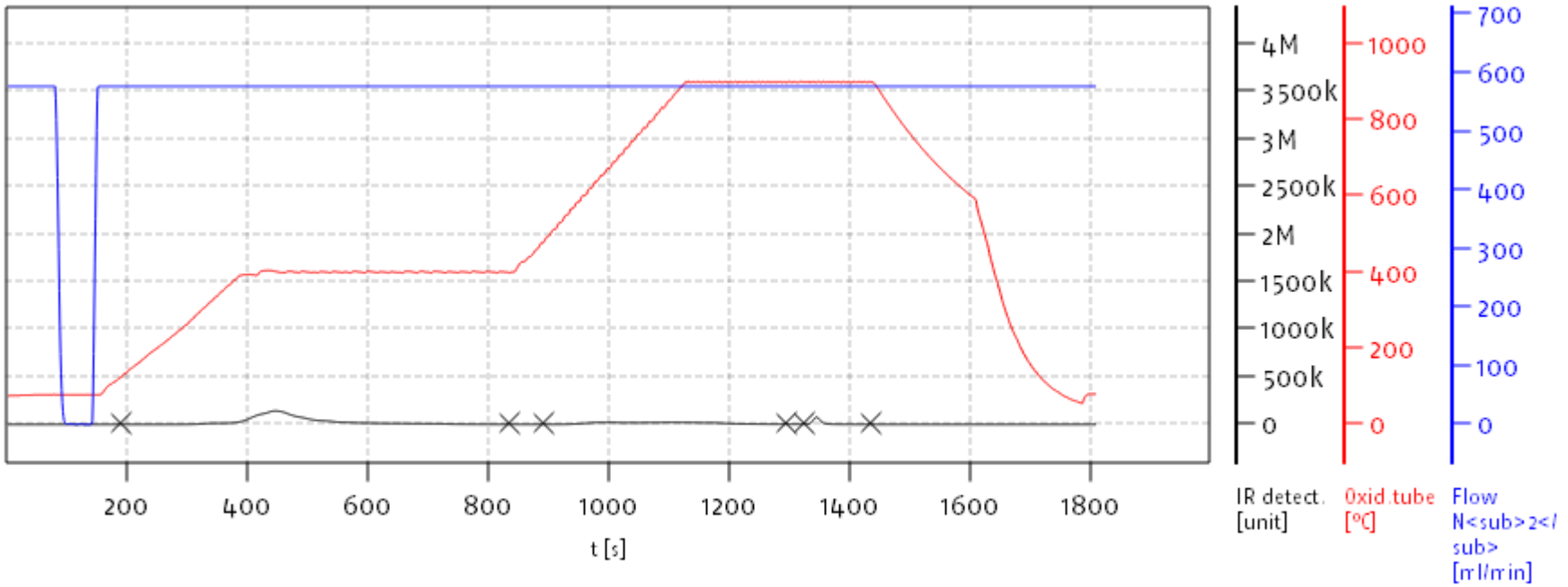
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
122	33	BJH0674-DUP2	504.60		1.00	CARBON	9/4/2021 1:08 AM	0.209	0.060	0.269	bl	606 908	190 542	46 291	0.9934	1.0000



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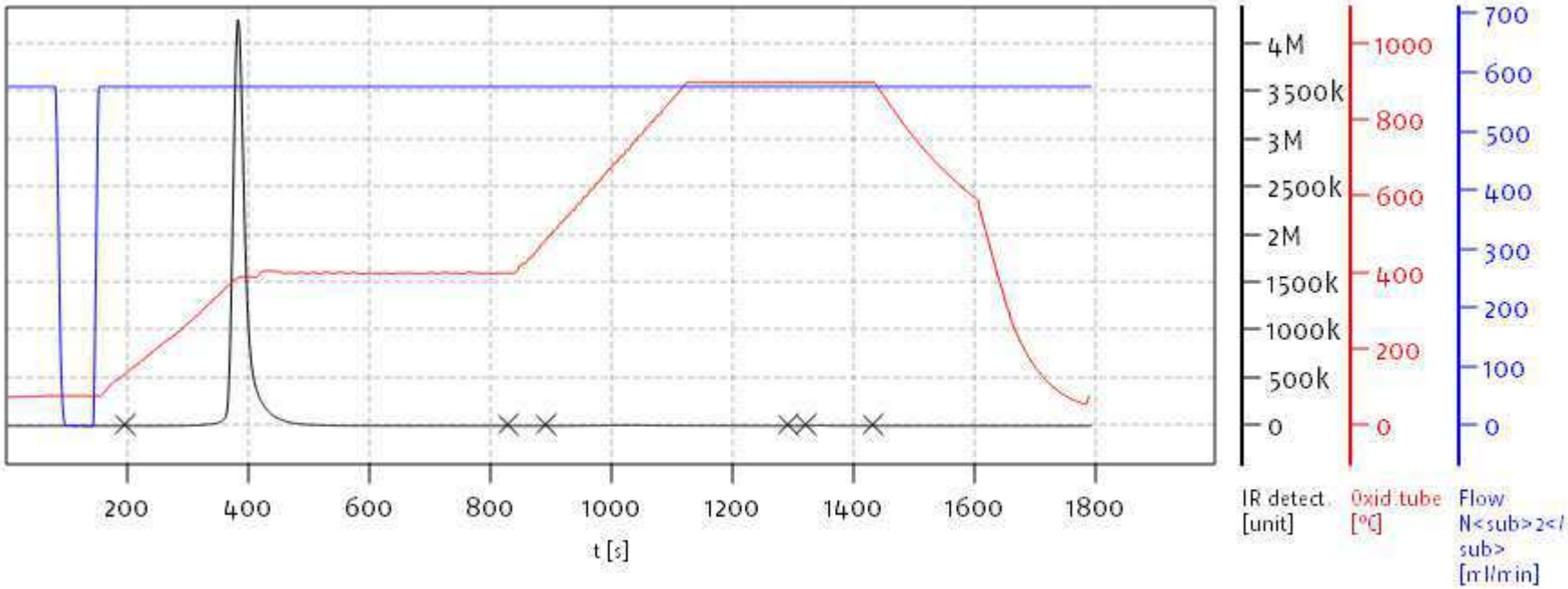
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
123	34	21H0274-03RE1	201.70		1.00	CARBON	9/4/2021 1:38 AM	3.256	0.026	3.281	bl,C2u	3 925 640	42 303	6 590	0.9934	1.0000



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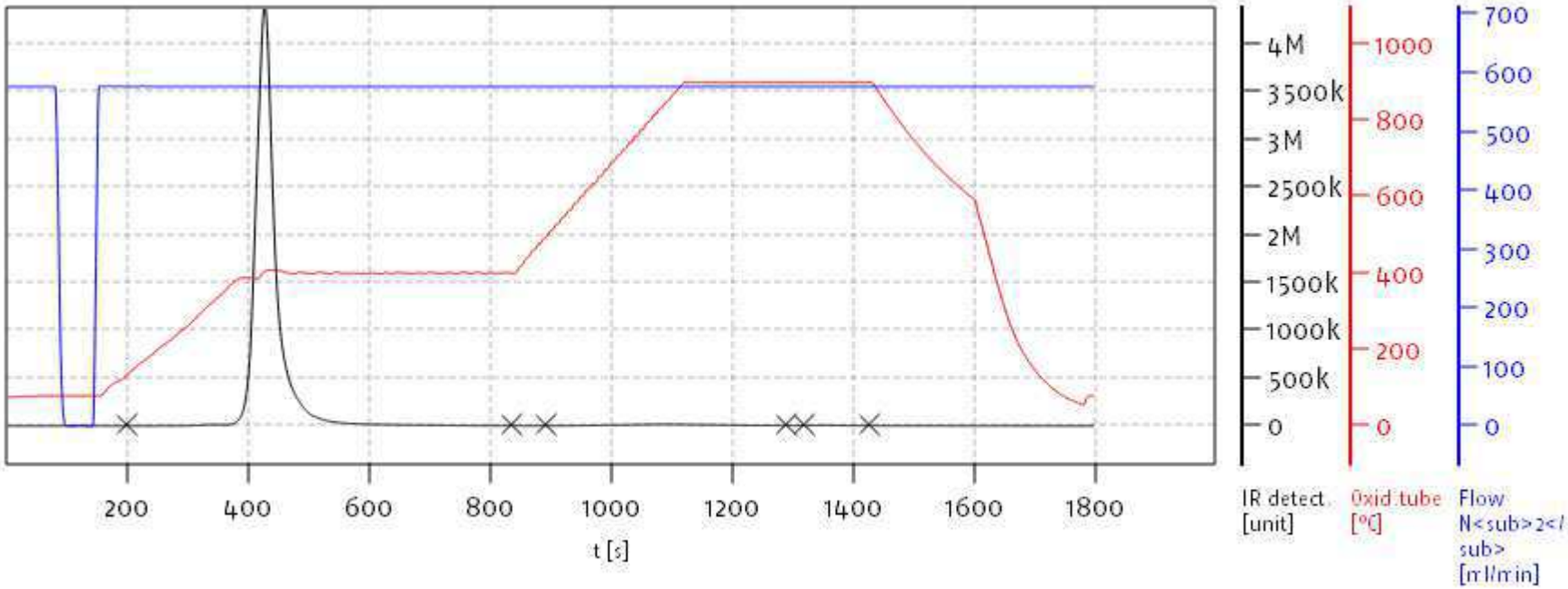
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
124	35	SJH0417-CCVA	23.20		1.00	CARBON	9/4/2021 2:09 AM	45.048	0.820	45.868	bl	6 235 010	124 372	17 518	0.9934	1.0000



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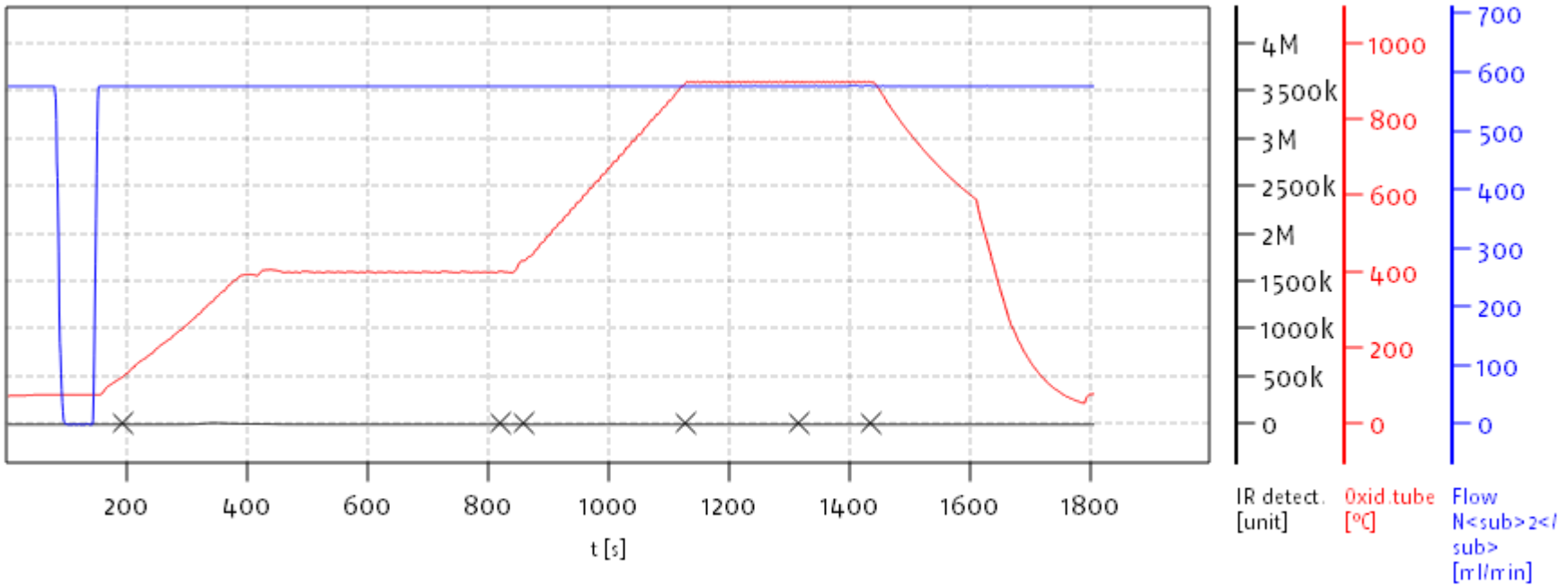
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
125	36	SJH0417-CCBA	555.10		1.00	CARBON	9/4/2021 2:39 AM	0.009	0.000	0.009	bl,C3u,C2u	41 446	2 172	358	0.9934	1.0000



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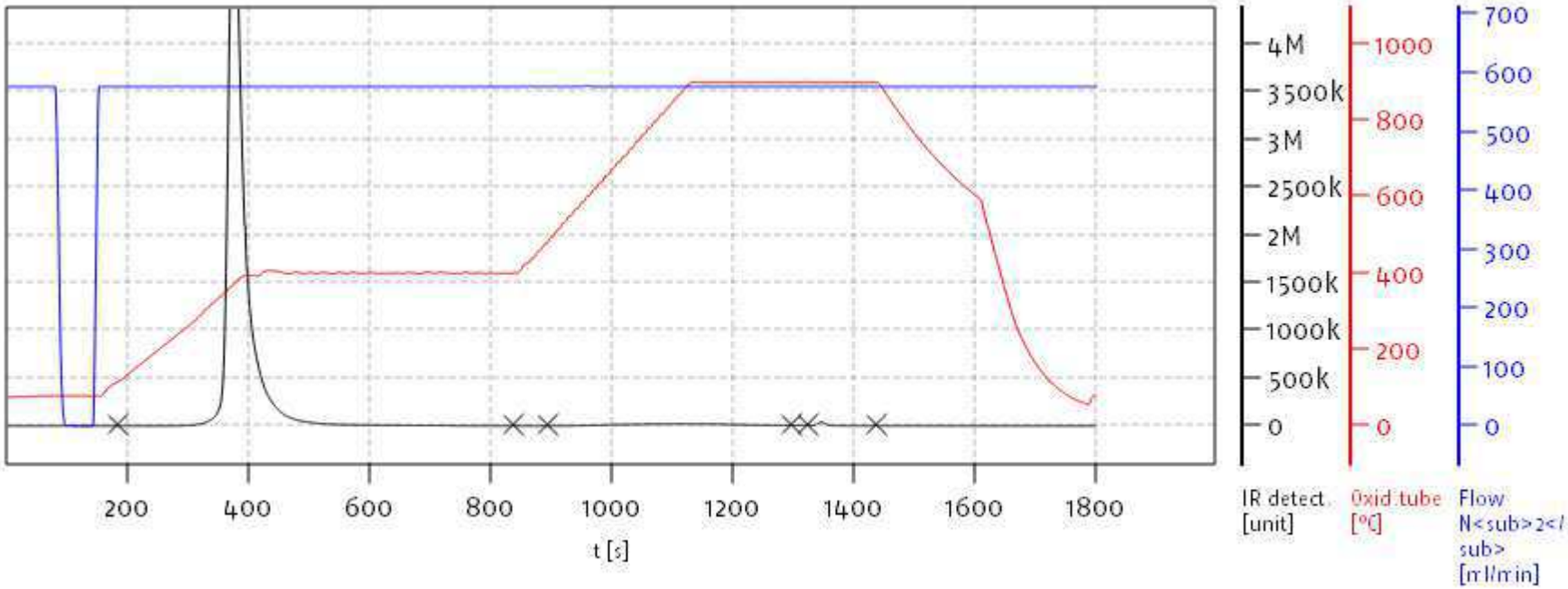
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
126	37	21H0275-01RE1	52.60		1.00	CARBON	9/4/2021 3:10 AM	21.405	0.525	21.930	bl	6 706 260	175 202	27 764	0.9934	1.0000



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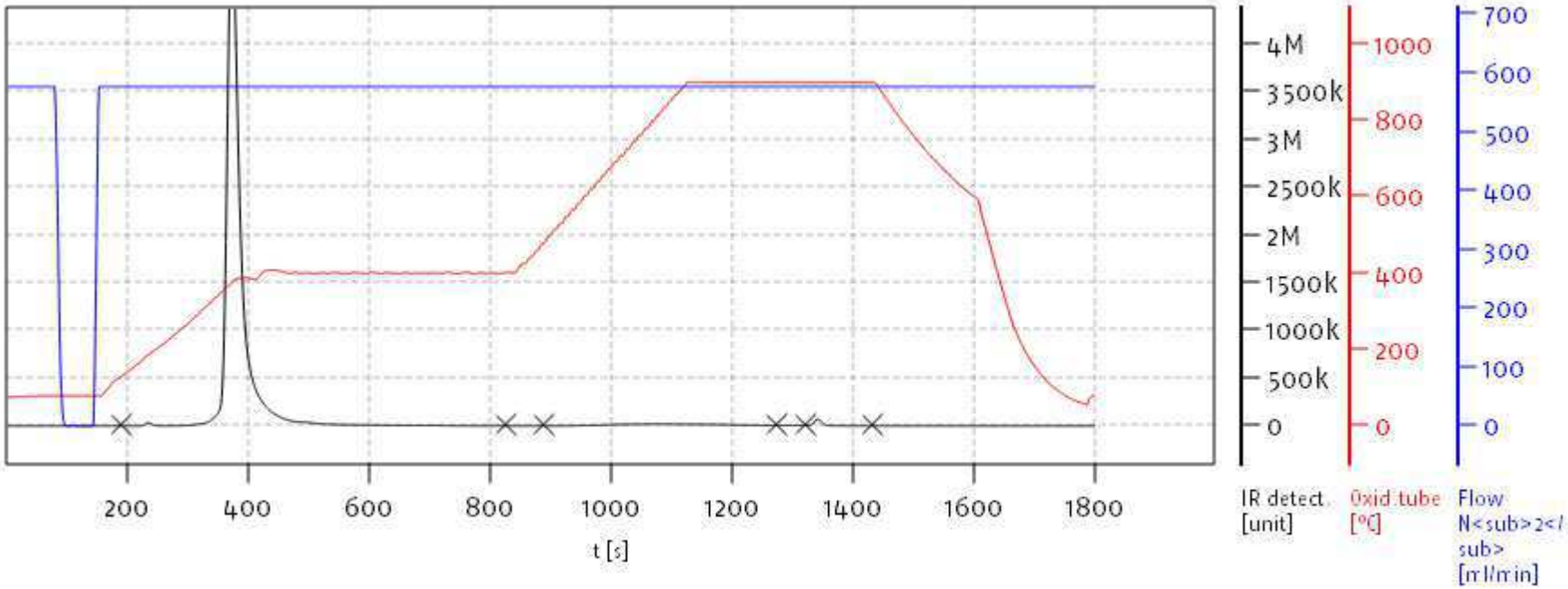
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
127	38	21H0275-03RE1	58.50		1.00	CARBON	9/4/2021 3:40 AM	14.961	0.407	15.368	bl	5 198 730	152 749	40 890	0.9934	1.0000



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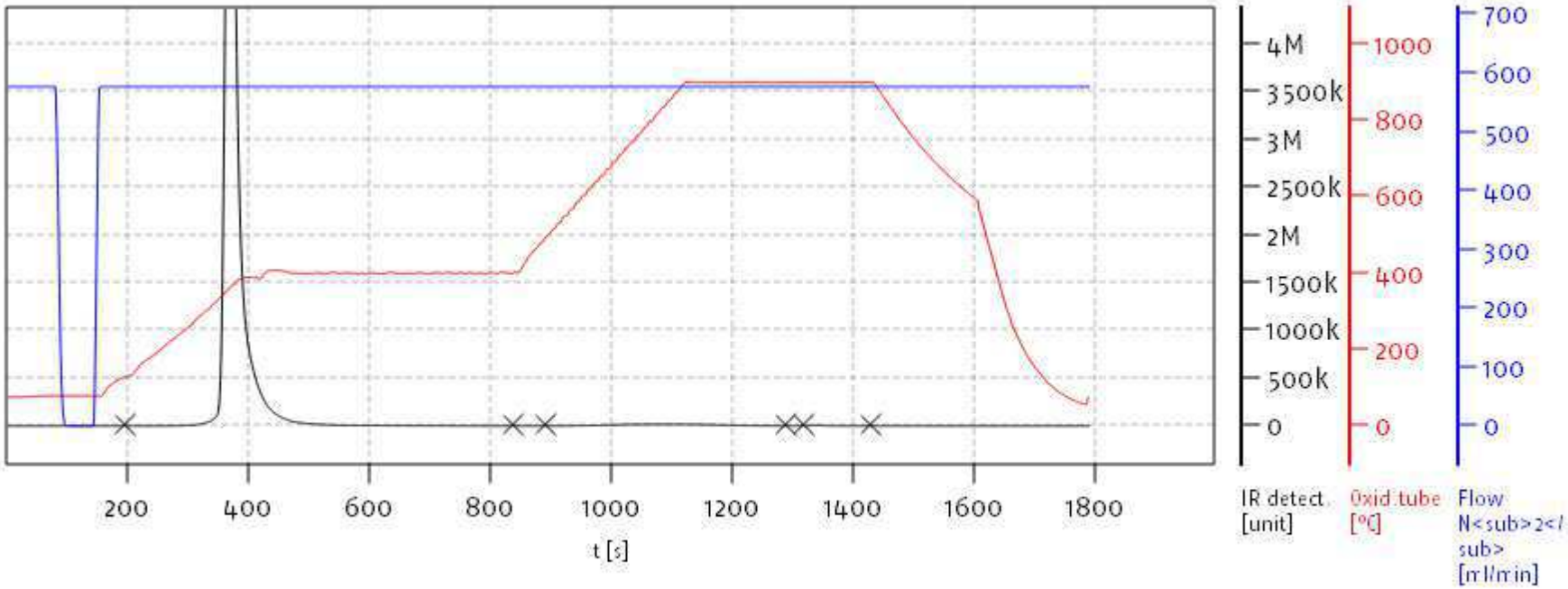
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
128	39	21H0275-06RE1	54.60		1.00	CARBON	9/4/2021 4:10 AM	23.200	0.351	23.550	bl	7 561 650	125 020	8 527	0.9934	1.0000



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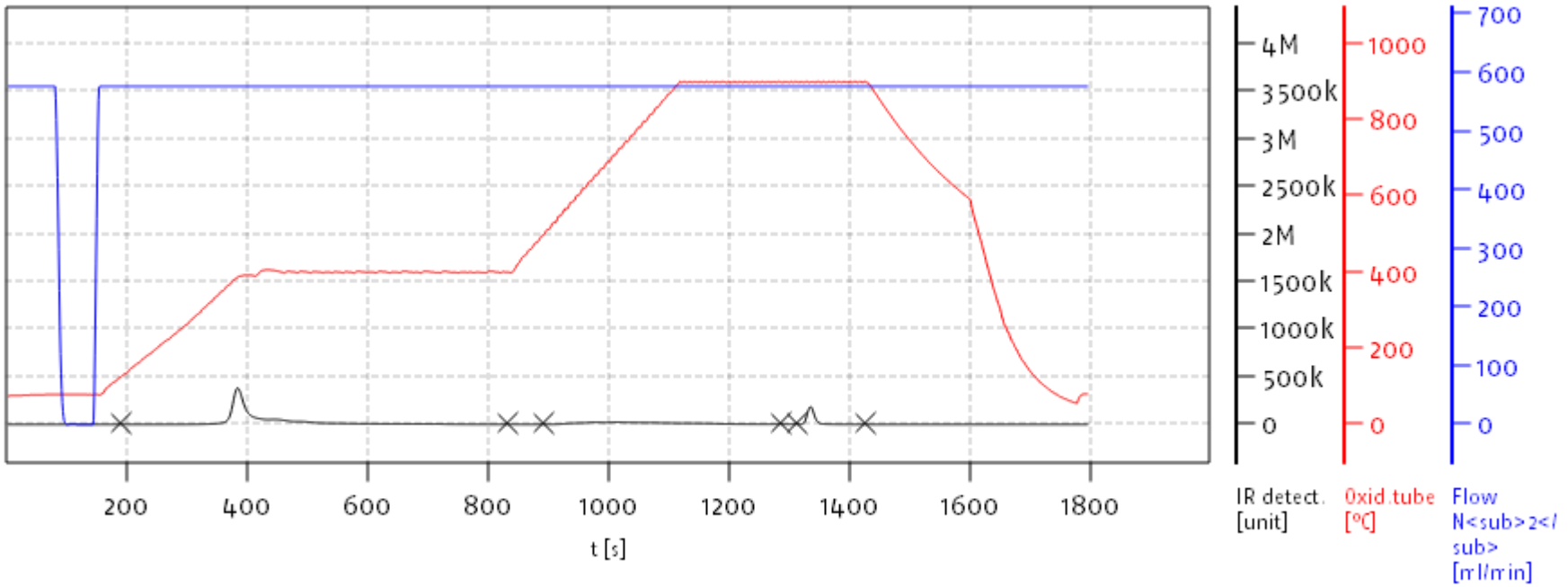
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
129	40	21H0224-08RE1	130.60		1.00	CARBON	9/4/2021 4:41 AM	0.842	0.206	1.048	bl	578 148	170 686	100 163	0.9934	1.0000



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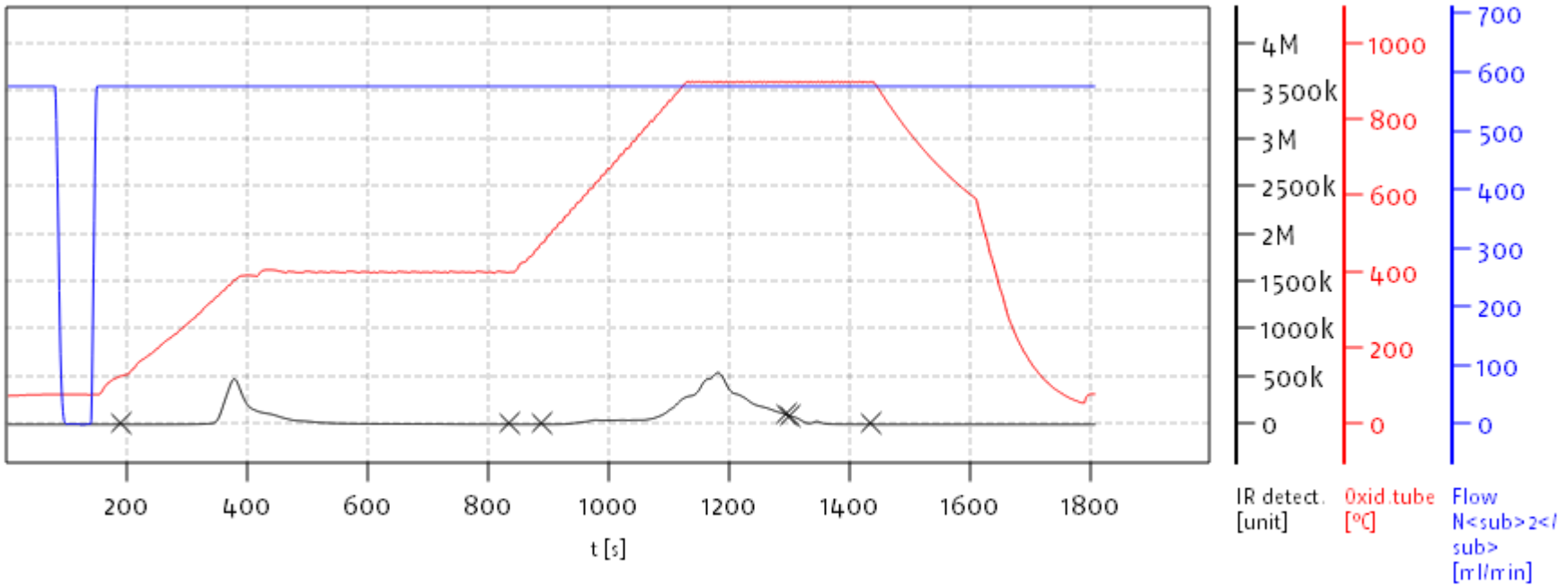
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
130	41	21H0234-01RE1	148.30		1.00	CARBON	9/4/2021 5:11 AM	1.218	2.776	3.994	bl	1 016 790	2 449 230	82 919	0.9934	1.0000



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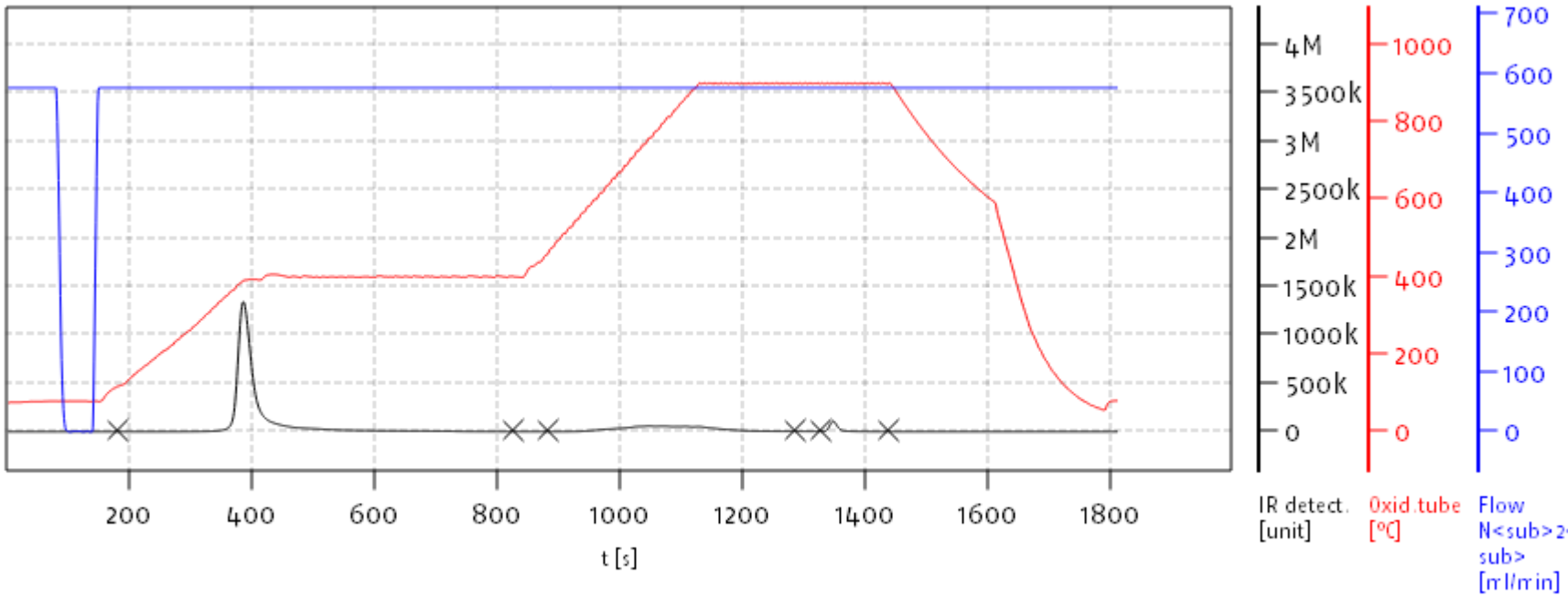
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
131	42	BJH0677-DUP3	222.40		1.00	CARBON	9/4/2021 5:42 AM	1.249	0.288	1.538	bl	1 612 950	391 499	65 783	0.9934	1.0000



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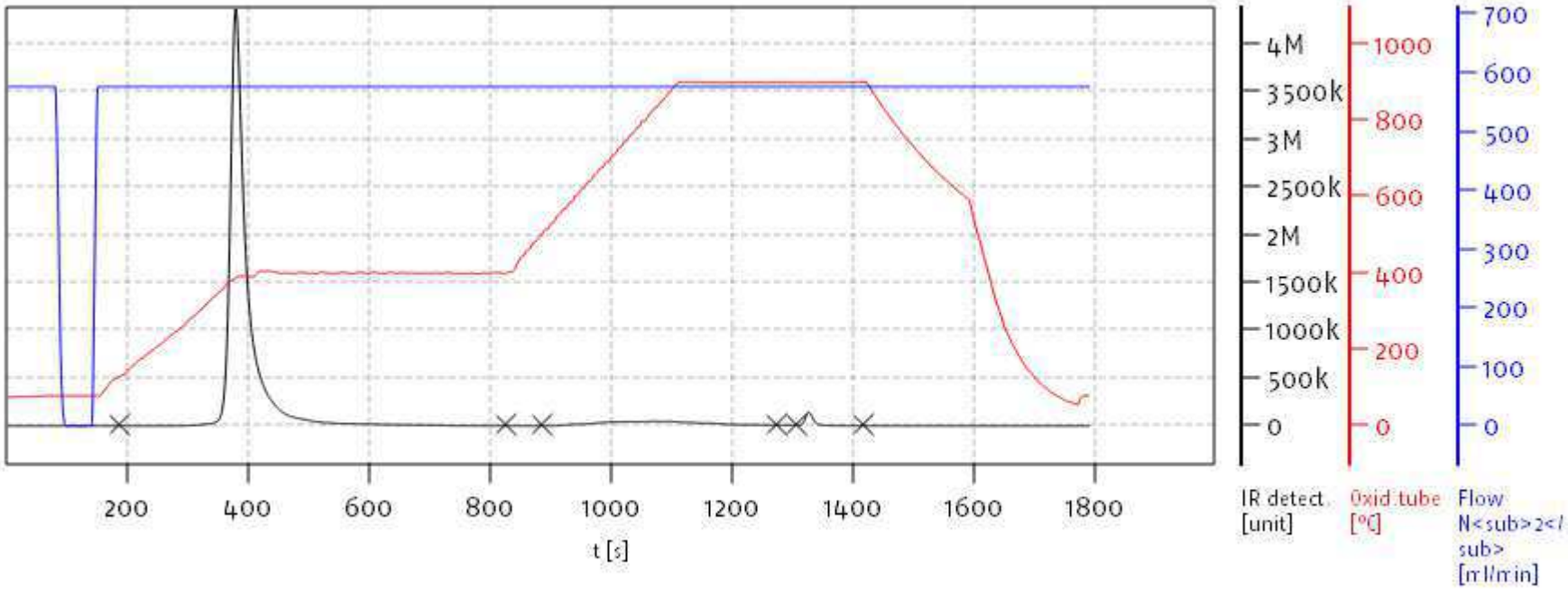
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
132	43	BJH0677-MS3	262.40	0.0118	1.00	CARBON	9/4/2021 6:12 AM	3.403	0.236	3.639	bl	5 258 690	378 093	86 584	0.9934	1.0000



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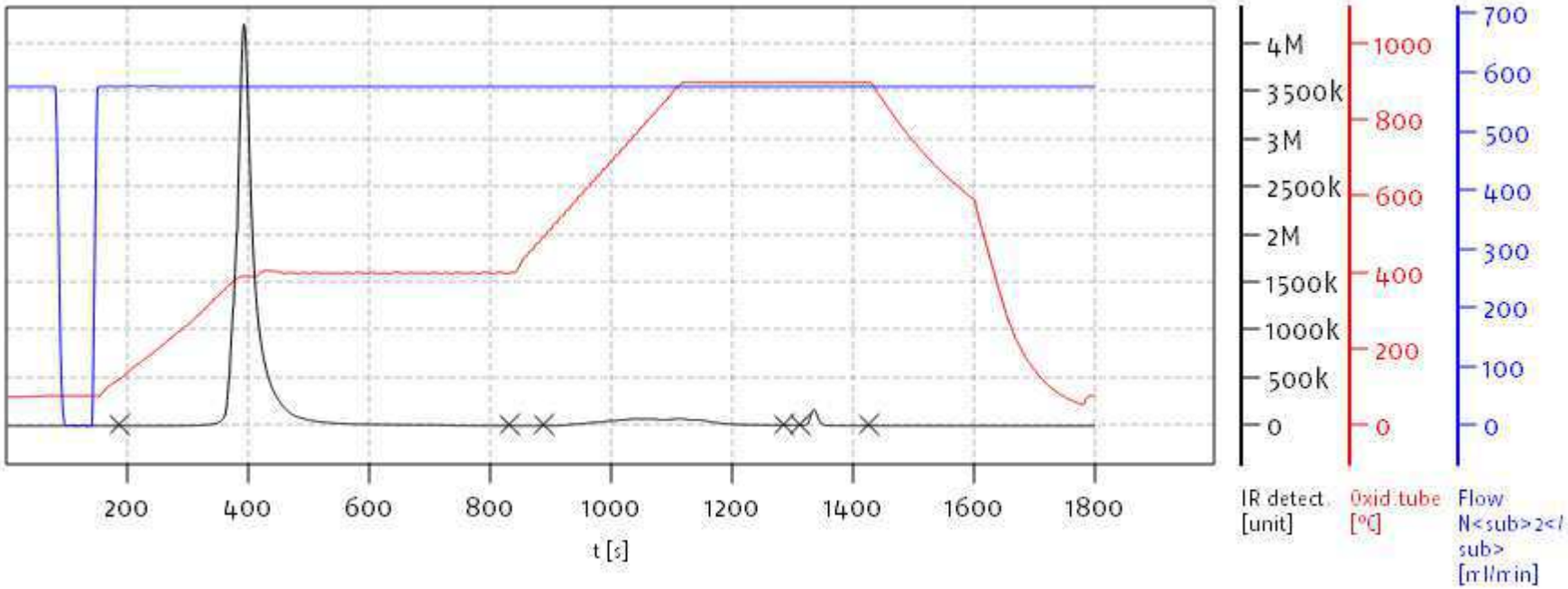
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
133	44	BJH0677-MSD3	234.20	0.0140	1.00	CARBON	9/4/2021 6:43 AM	4.011	0.396	4.408	bl	5 522 710	561 441	99 186	0.9934	1.0000



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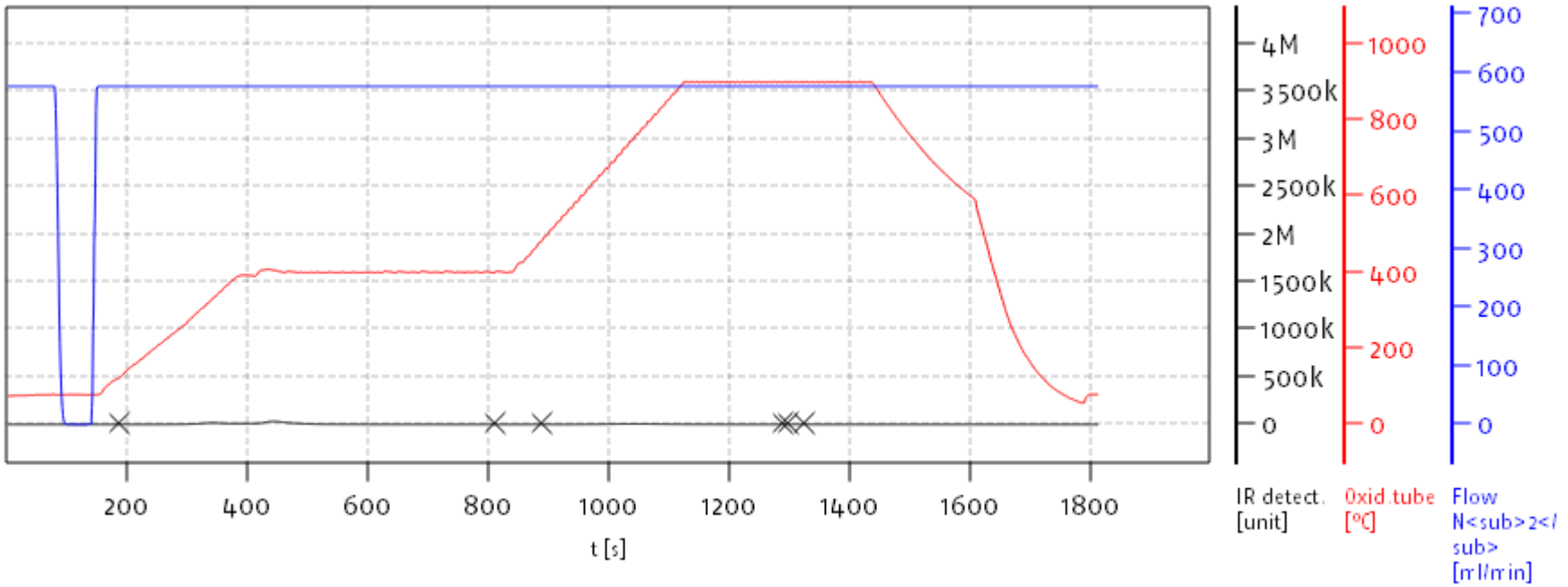
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
134	45	BJI0020-MRL1	555.10		1.00	CARBON	9/4/2021 7:13 AM	0.031	0.004	0.035	bl,C2u	113 783	24 431	88	0.9934	1.0000



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Access: soliTOC superuser

Date: Mon Sep 6 07:32:29 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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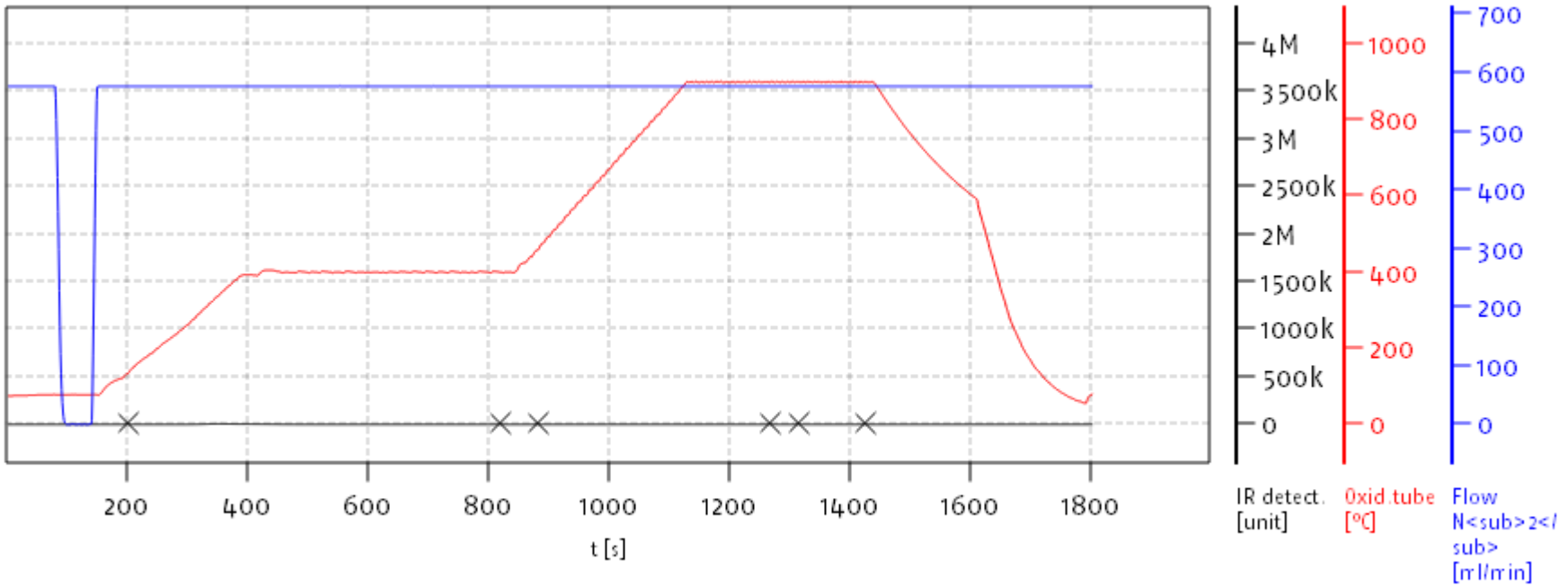
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
135	46	BJI0020-BLK1	590.20		1.00	CARBON	9/4/2021 7:44 AM	0.003	0.000	0.003	bl,C3u,C2u	22 846	2 237	357	0.9934	1.0000



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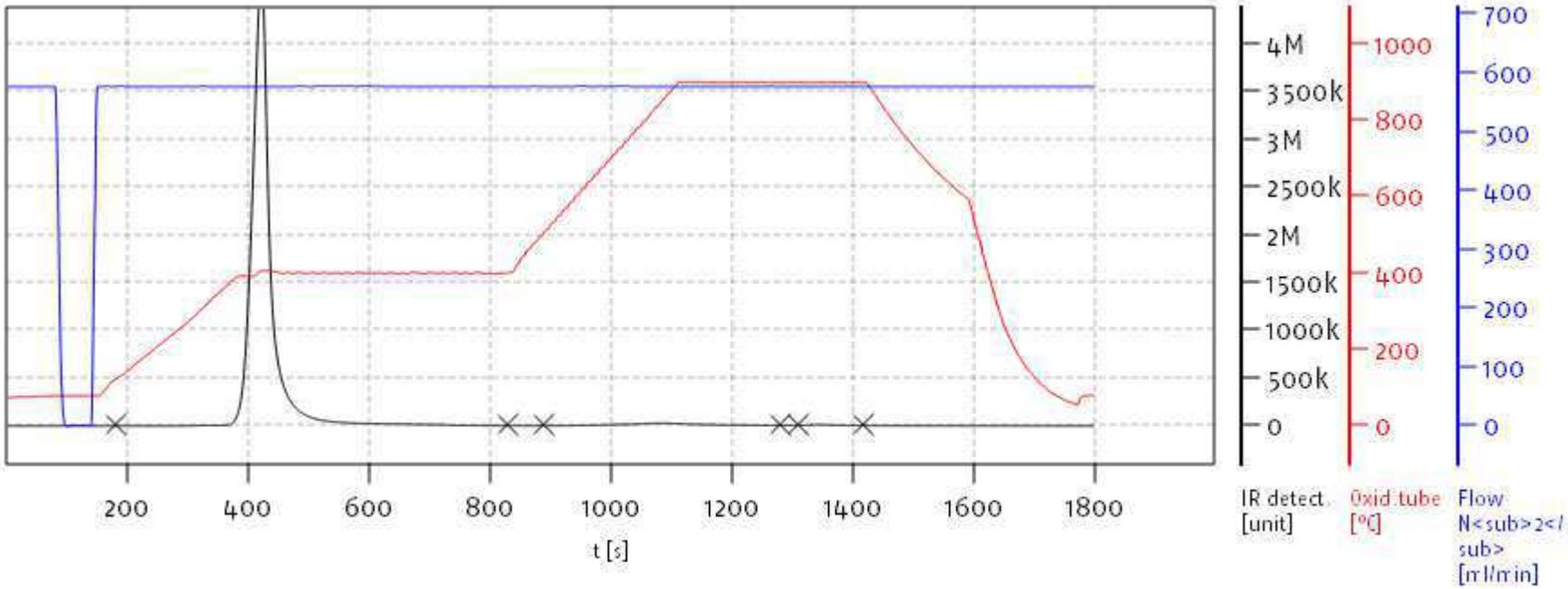
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
136	47	SJH0417-CCVB	23.20		1.00	CARBON	9/4/2021 8:14 AM	44.275	1.190	45.465	bl	6 116 640	175 084	28 999	0.9934	1.0000



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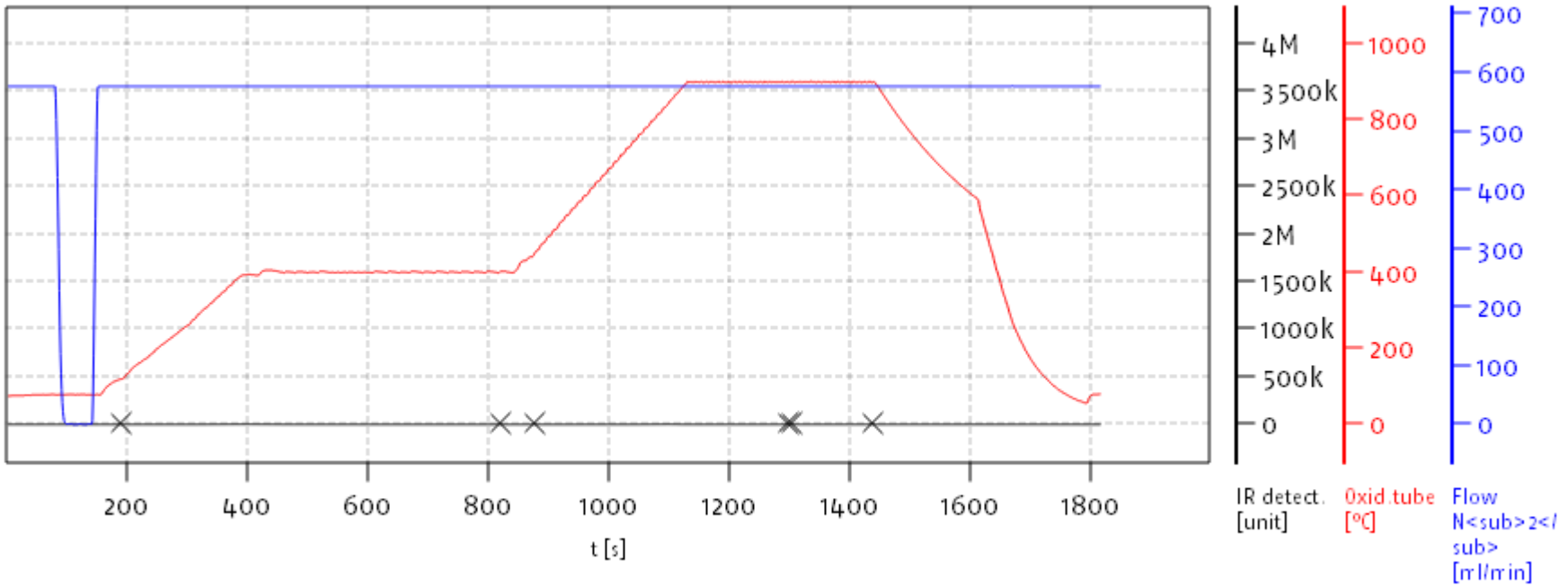
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
137	48	SJH0417-CCBB	671.00		1.00	CARBON	9/4/2021 8:45 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	7 053	3 769	344	0.9934	1.0000



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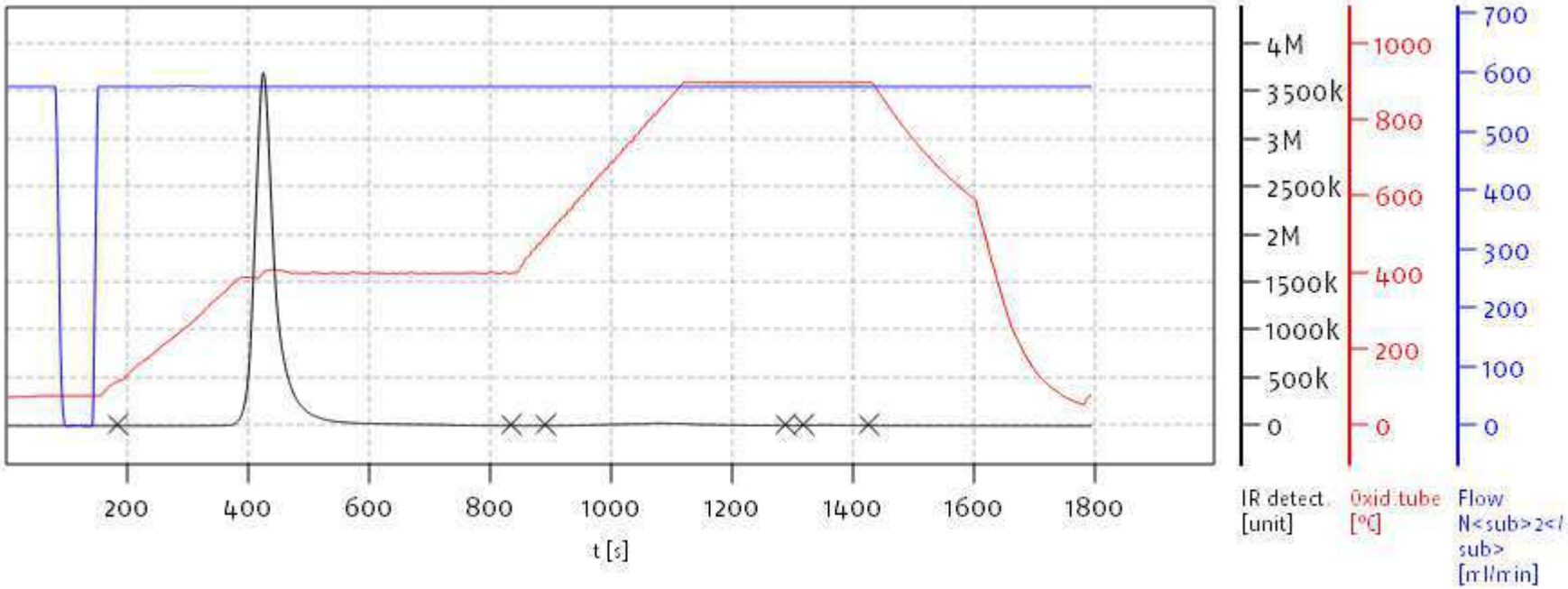
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
138	49	BJI0020-BS1	20.80		1.00	CARBON	9/4/2021 9:15 AM	44.997	1.344	46.341	bl	5 579 820	177 218	21 972	0.9934	1.0000



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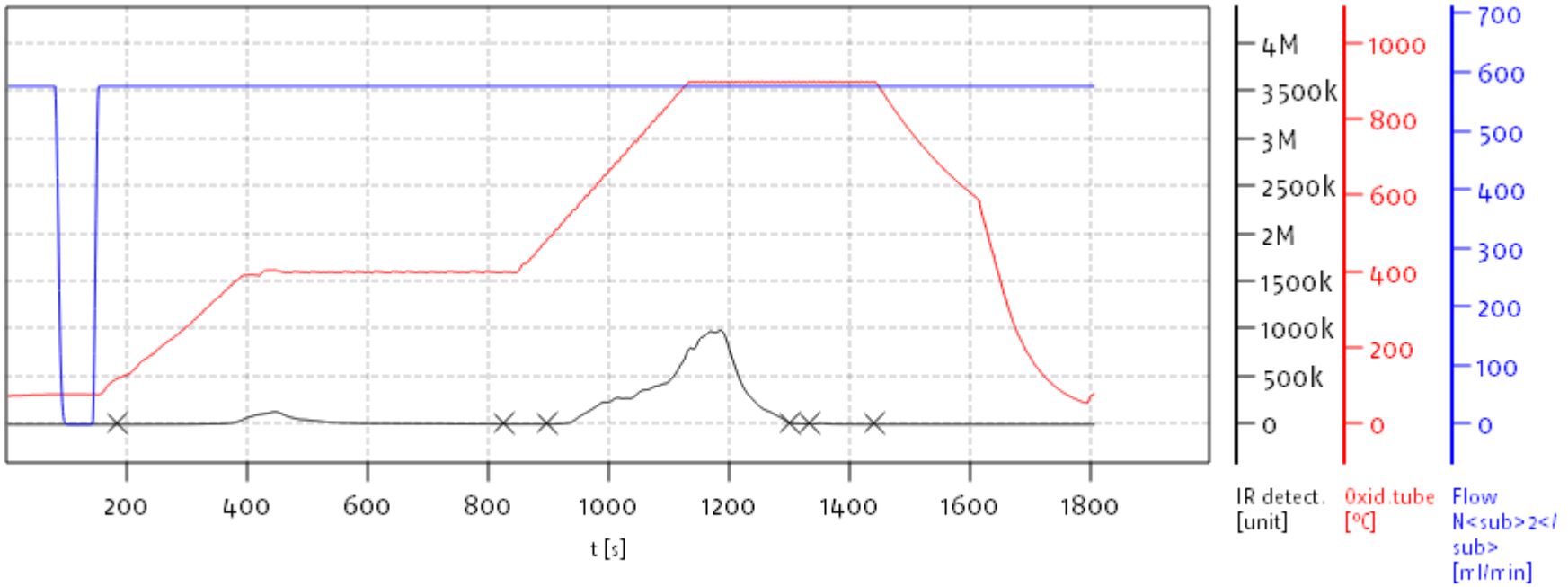
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
139	50	21G0404-01	522.30		1.00	CARBON	9/4/2021 9:46 AM	0.173	1.814	1.987	bl	548 547	5 621 650	13 691	0.9934	1.0000



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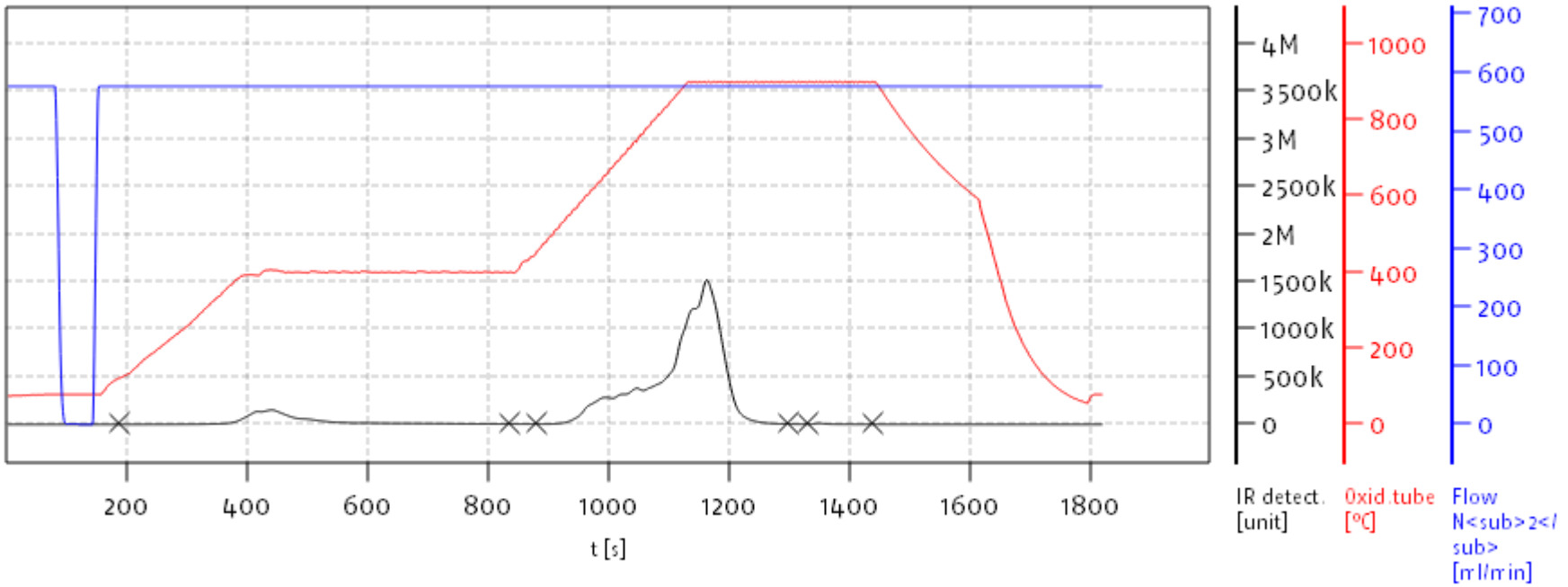
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
140	51	BJI0020-DUP1	581.00		1.00	CARBON	9/4/2021 10:16 AM	0.184	1.745	1.929	bl	645 498	6 016 200	13 903	0.9934	1.0000



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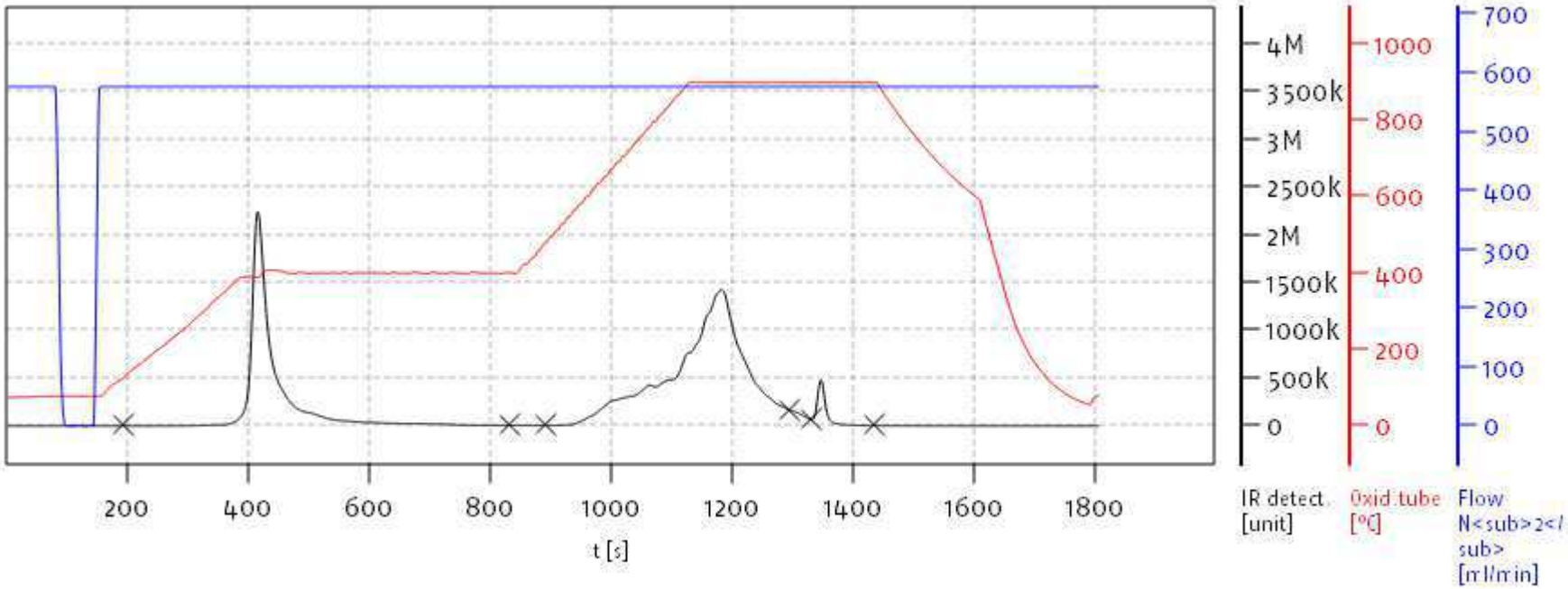
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
141	52	BJI0020-MS1	612.90	0.0111	1.00	CARBON	9/4/2021 10:47 AM	0.979	1.919	2.898	bl	3 292 890	6 974 070	305 999	0.9934	1.0000



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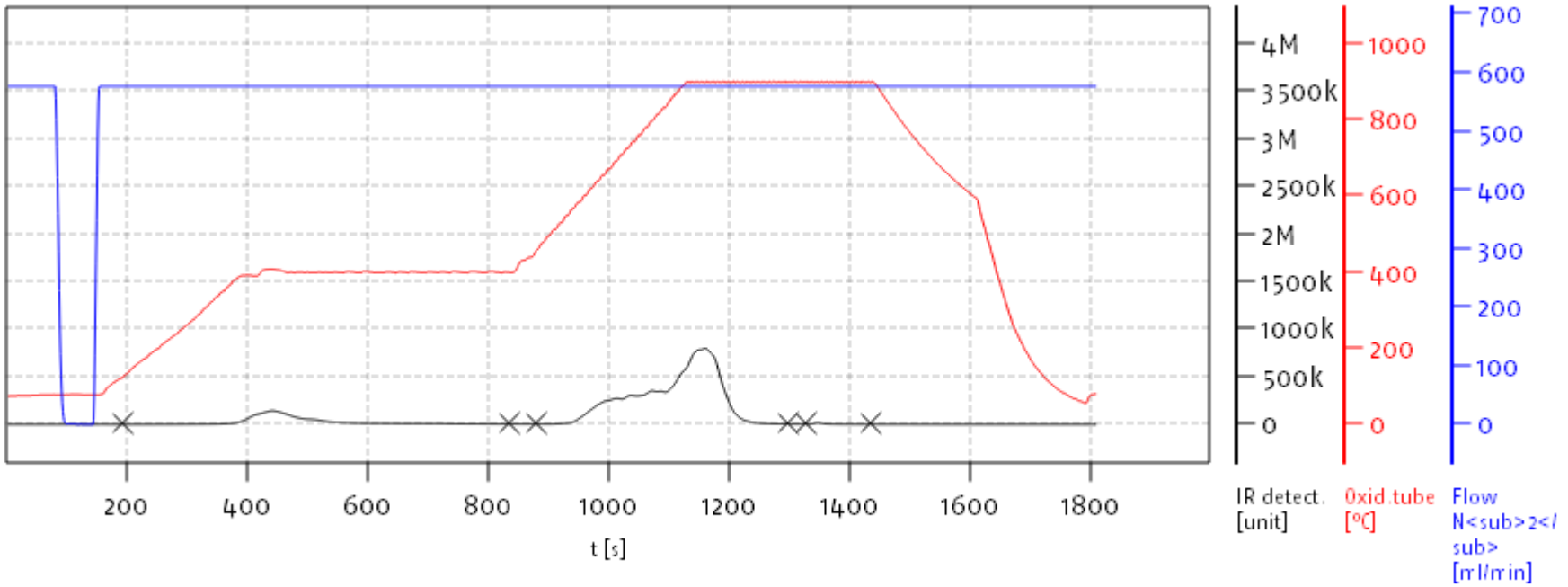
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
142	53	21G0404-02	525.30		1.00	CARBON	9/4/2021 11:18 AM	0.189	1.243	1.432	bl	598 291	3 878 040	16 854	0.9934	1.0000



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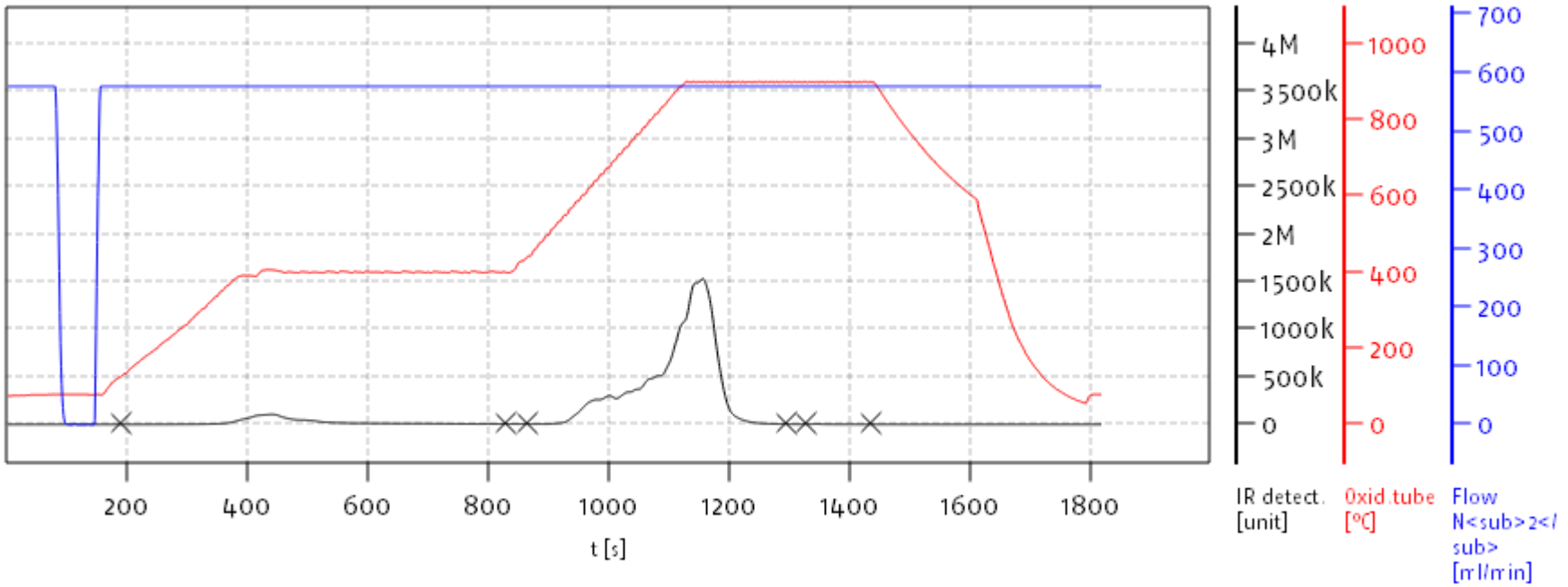
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
143	54	21G0404-03	639.30		1.00	CARBON	9/4/2021 11:48 AM	0.127	1.583	1.710	bl,C2u	495 307	6 002 960	7 000	0.9934	1.0000



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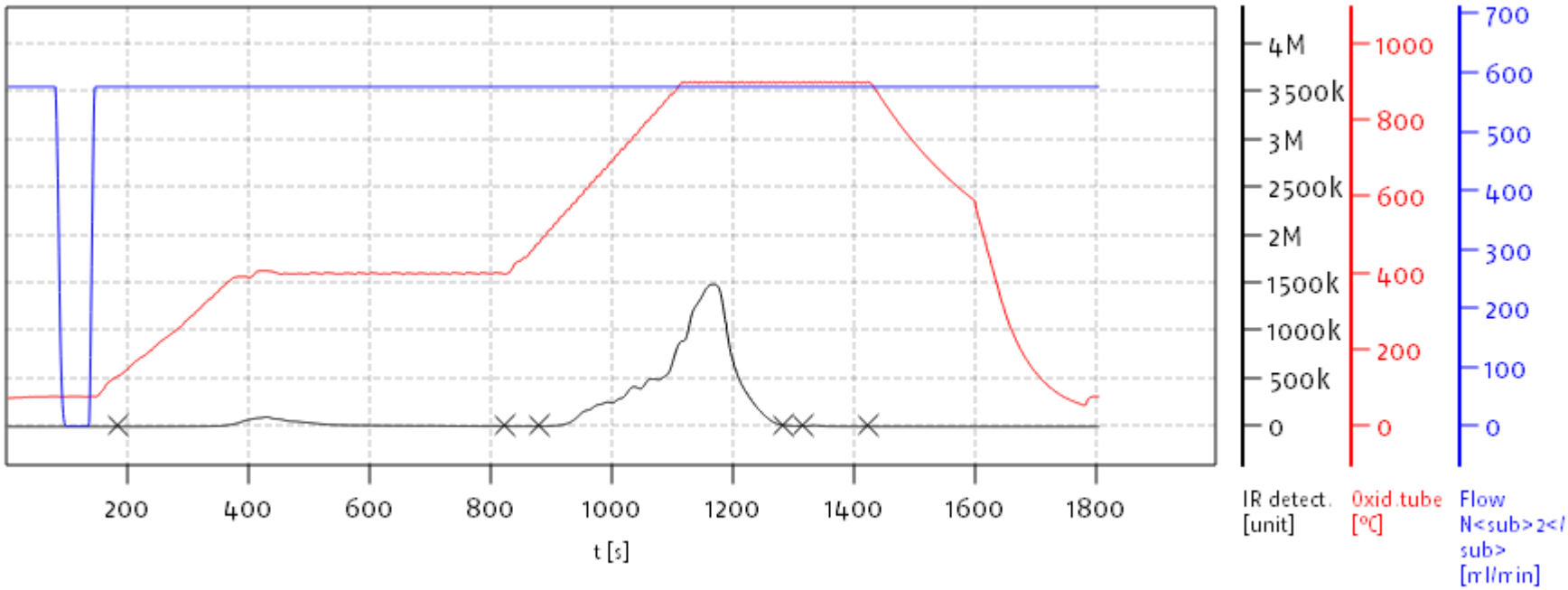
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
144	55	21G0404-04	633.10		1.00	CARBON	9/4/2021 12:19 PM	0.122	1.903	2.025	bl	468 750	7 145 870	14 459	0.9934	1.0000



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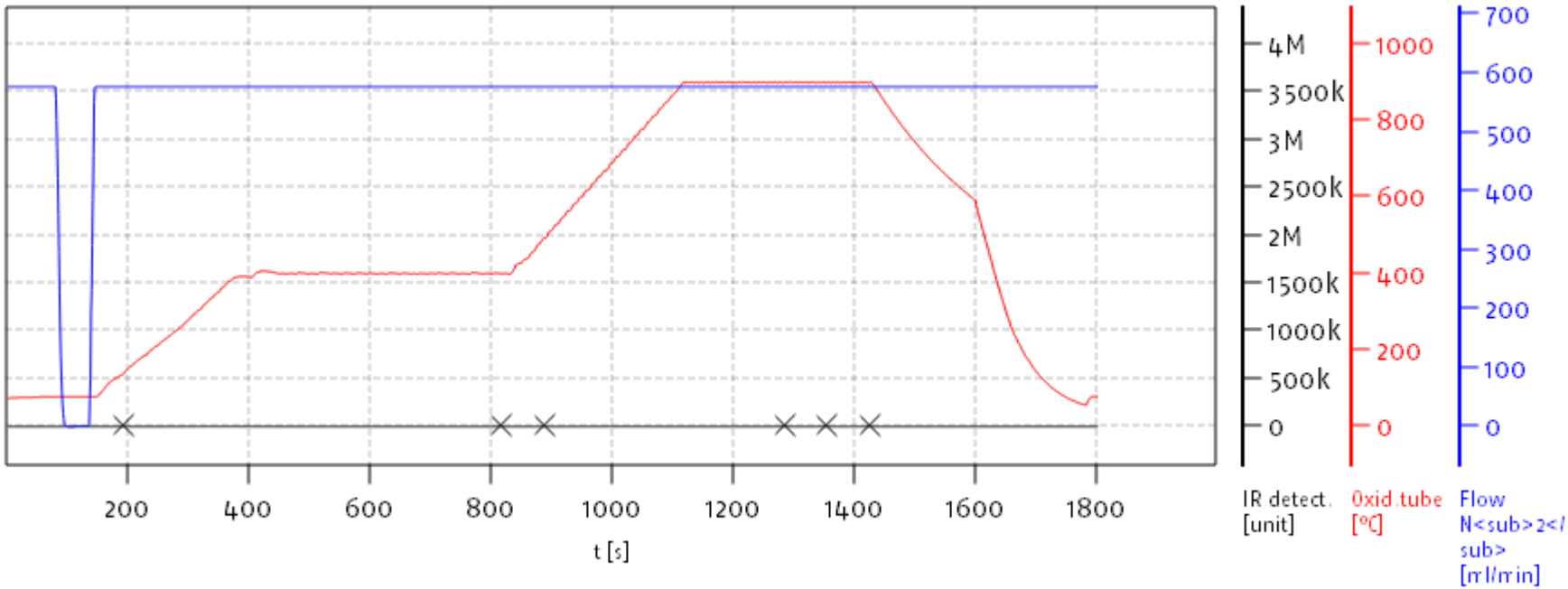
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
145	56	BLANK	1.00		1.00	CARBON	9/4/2021 12:49 PM	0.000	0.000	0.000	bl	6 526	3 629	43	0.9934	1.0000



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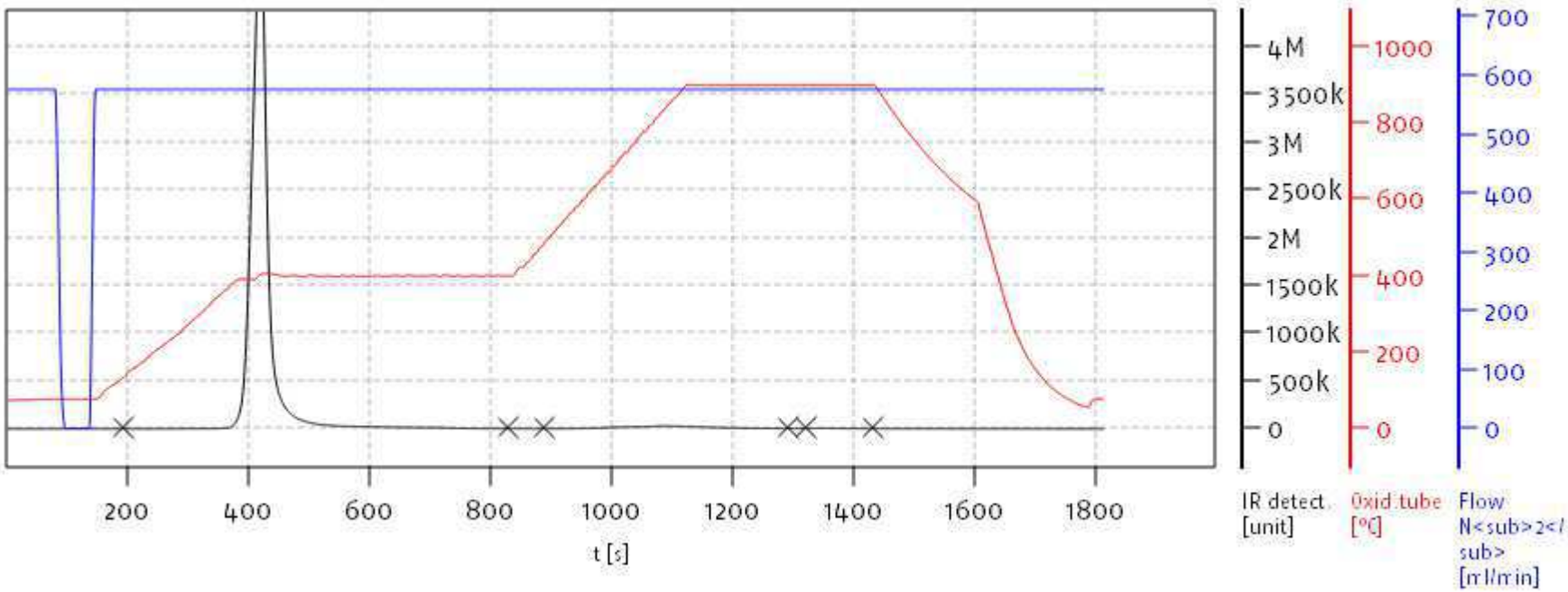
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
146	57	Dfactor	22.10		1.00	CARBON	9/4/2021 1:20 PM	44.478	1.375	45.853	bl	6 029 760	191 631	15 936	0.9664	1.0000



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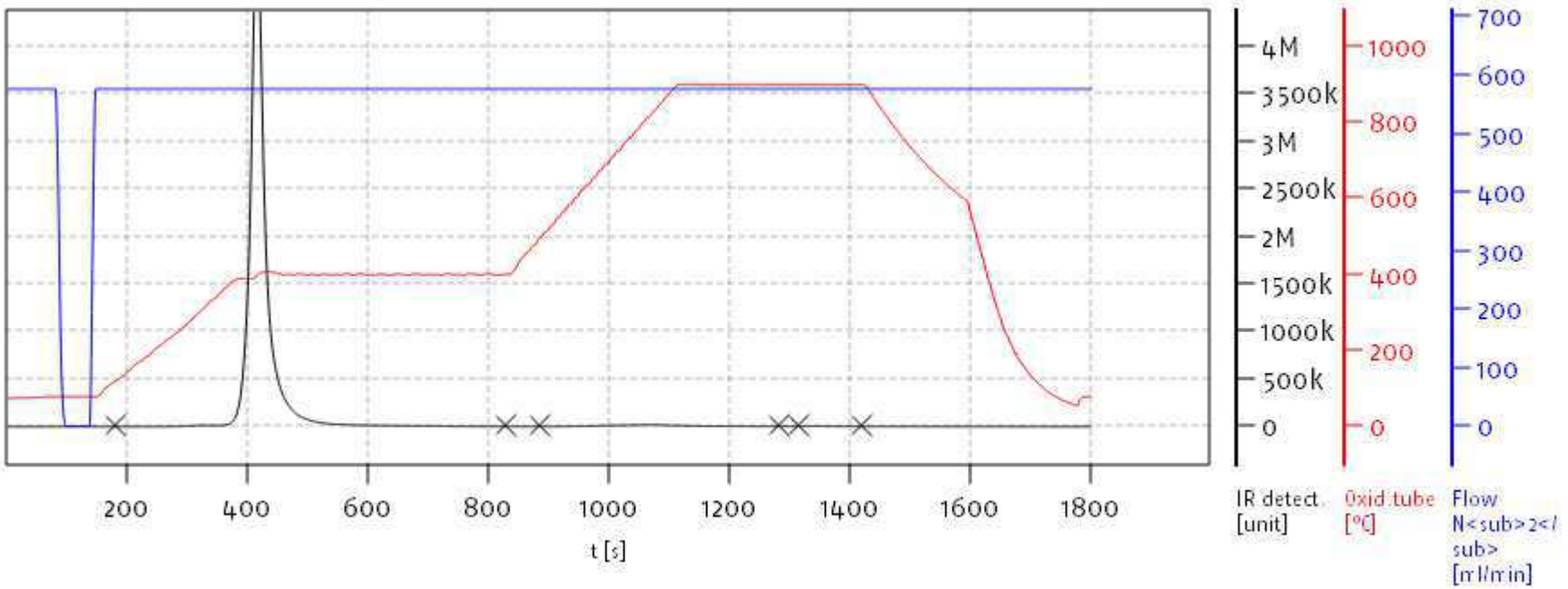
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
147	58	Dfactor	21.20		1.00	CARBON	9/4/2021 1:50 PM	44.446	0.812	45.257	bl	5 790 610	113 570	11 430	0.9654	1.0000



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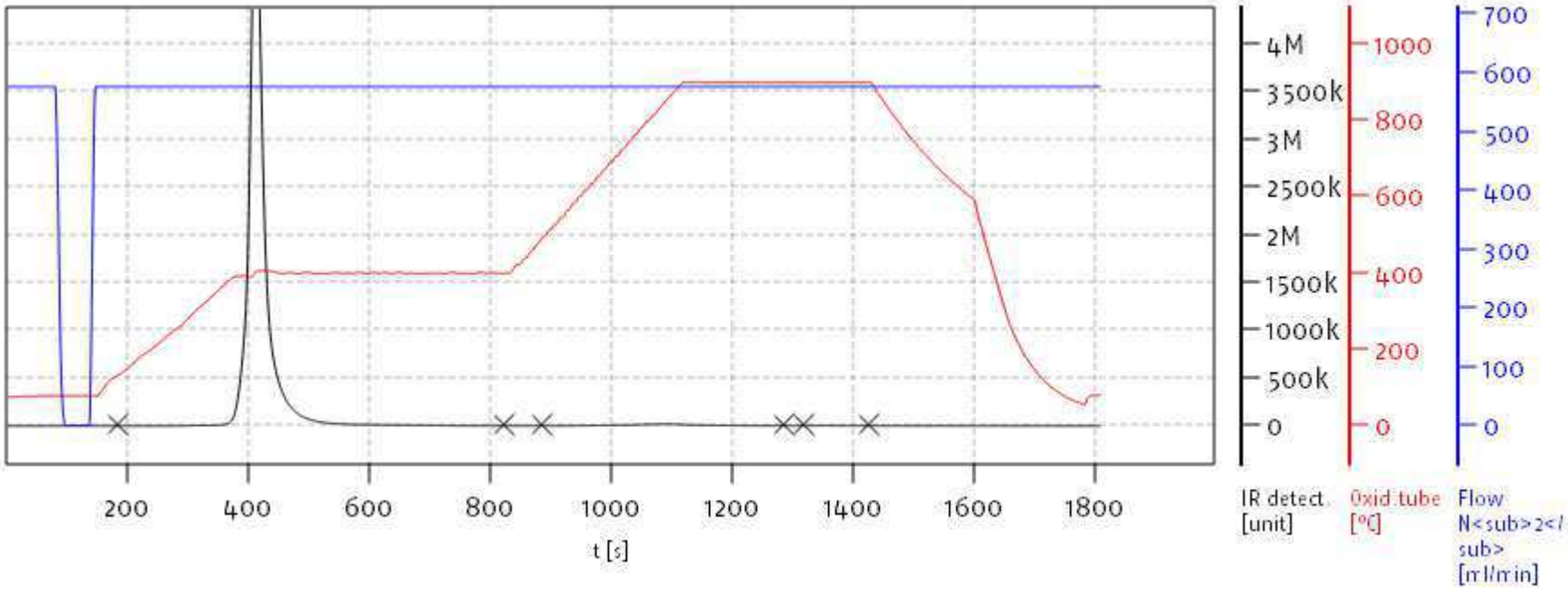
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
148	59	SJH0417-CCVC	22.20		1.00	CARBON	9/4/2021 2:21 PM	45.176	0.686	45.863	bl	6 159 530	101 875	8 921	0.9659	1.0000



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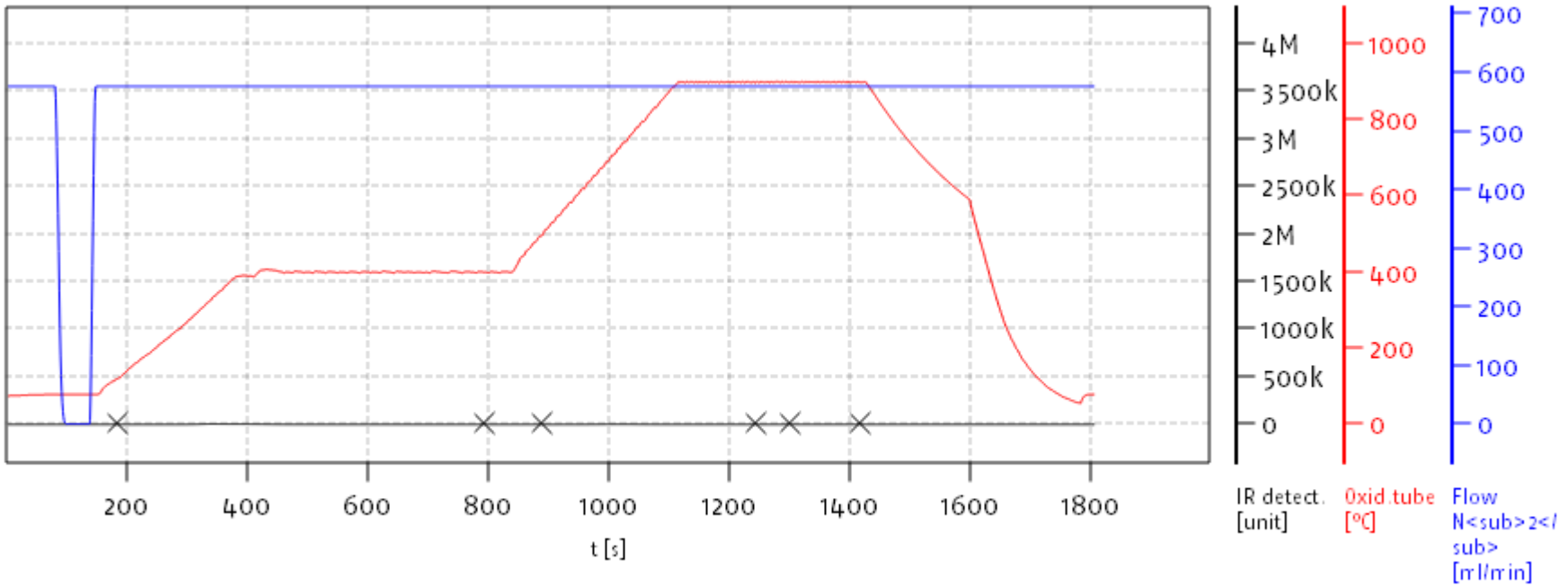
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
149	60	SJH0417-CCBC	615.10		1.00	CARBON	9/4/2021 2:52 PM	0.002	0.000	0.002	bl,C3u,C2u	19 312	6 926	510	0.9659	1.0000



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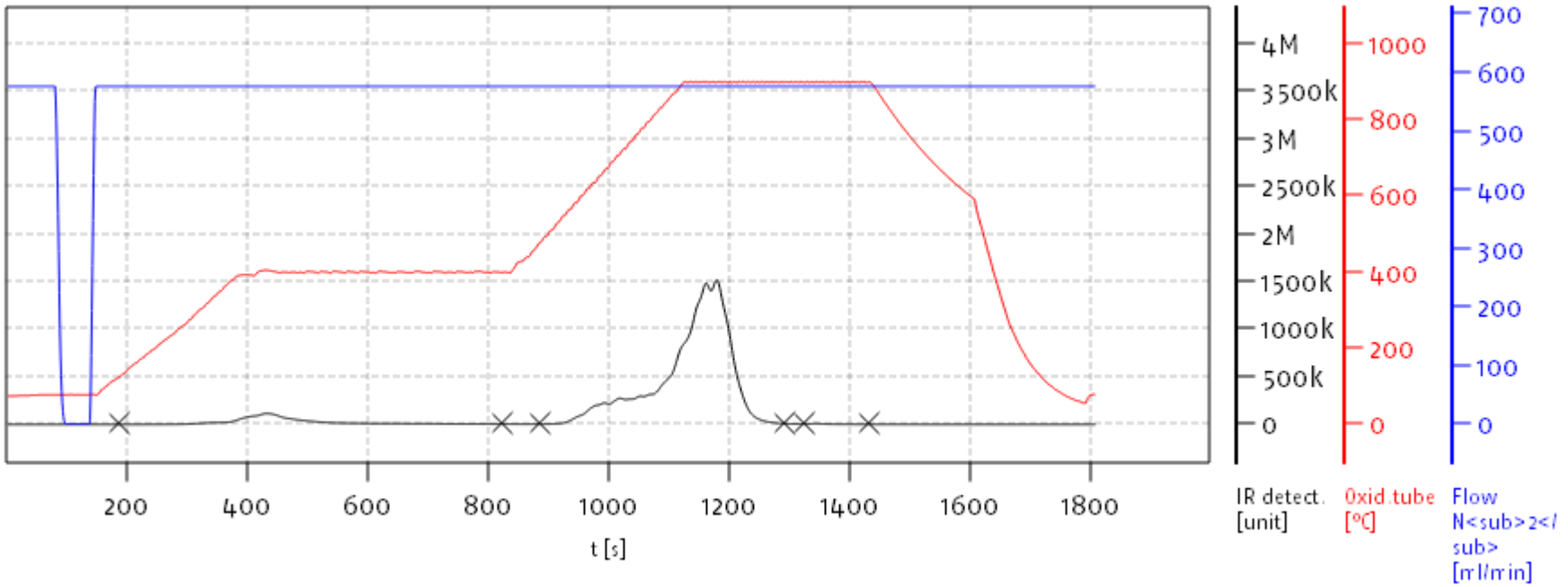
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
150	61	21G0404-05	521.40		1.00	CARBON	9/4/2021 3:22 PM	0.161	2.055	2.216	bl	523 278	6 356 600	13 821	0.9659	1.0000



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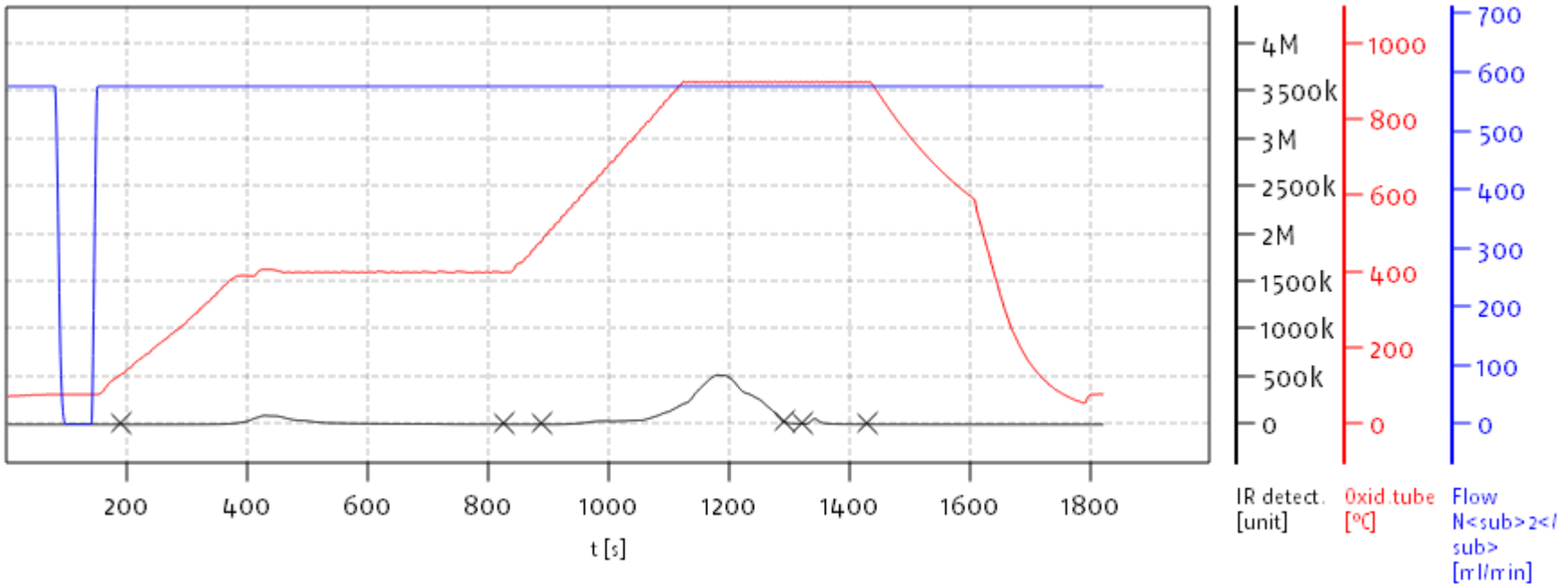
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
151	79	21G0246-01RE1	942.50		1.00	CARBON	9/4/2021 3:53 PM	0.067	0.447	0.514	bl	363 635	2 504 590	46 067	0.9659	1.0000



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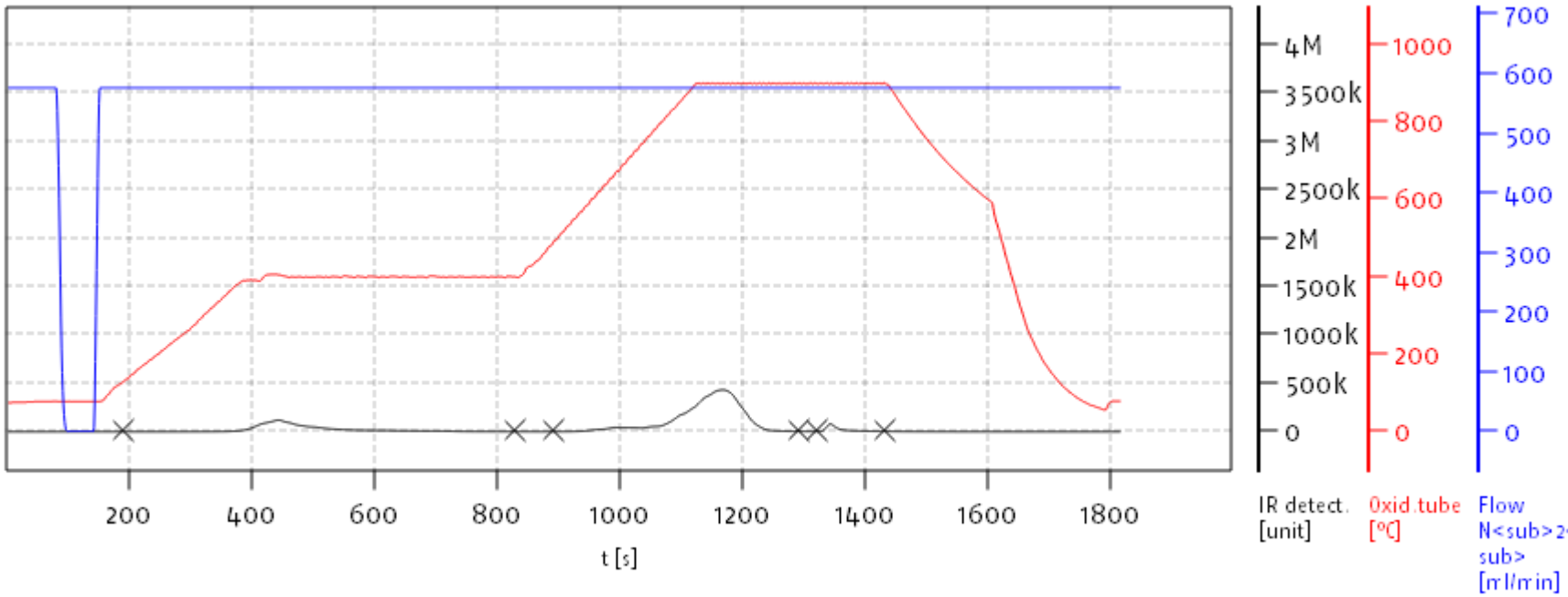
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
152	80	BJH0059-DUP3	941.80		1.00	CARBON	9/4/2021 4:24 PM	0.090	0.306	0.397	bl	467 496	1 719 420	75 580	0.9659	1.0000



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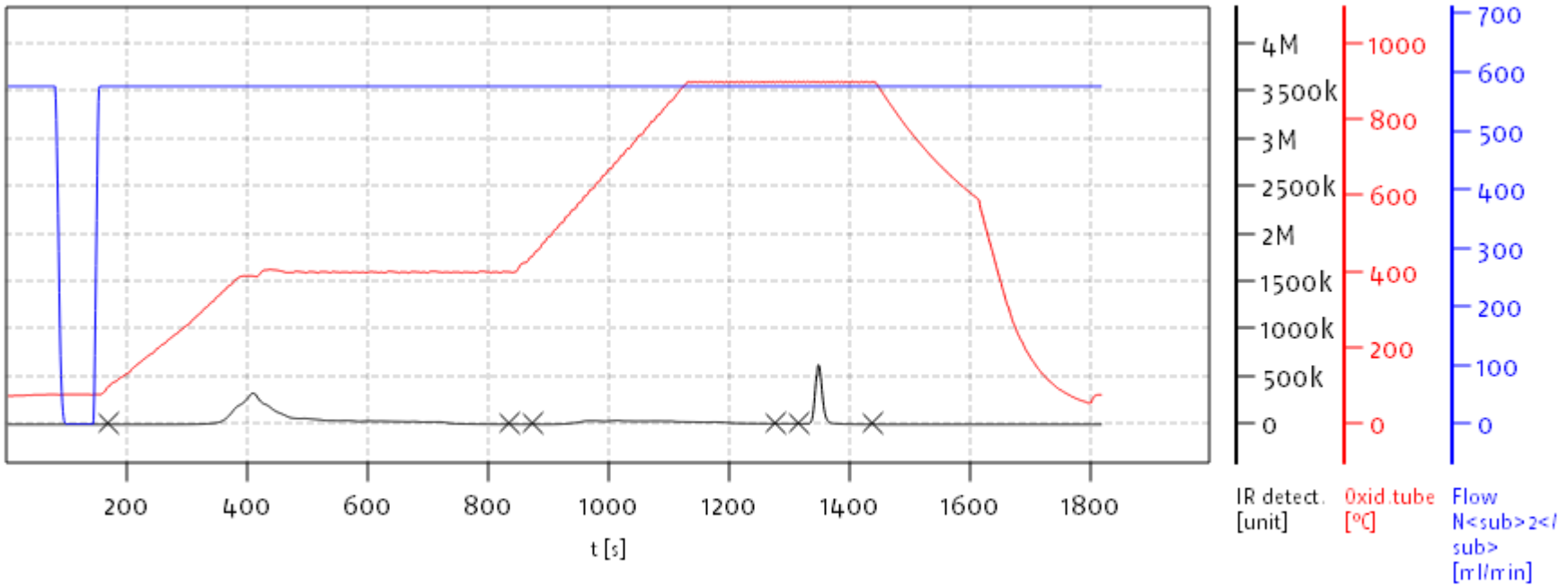
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
153	81	21G0212-13RE1	222.40		1.00	CARBON	9/4/2021 4:54 PM	1.087	0.245	1.332	bl	1 163 090	334 092	331 194	0.9659	1.0000



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Access: soliTOC superuser

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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

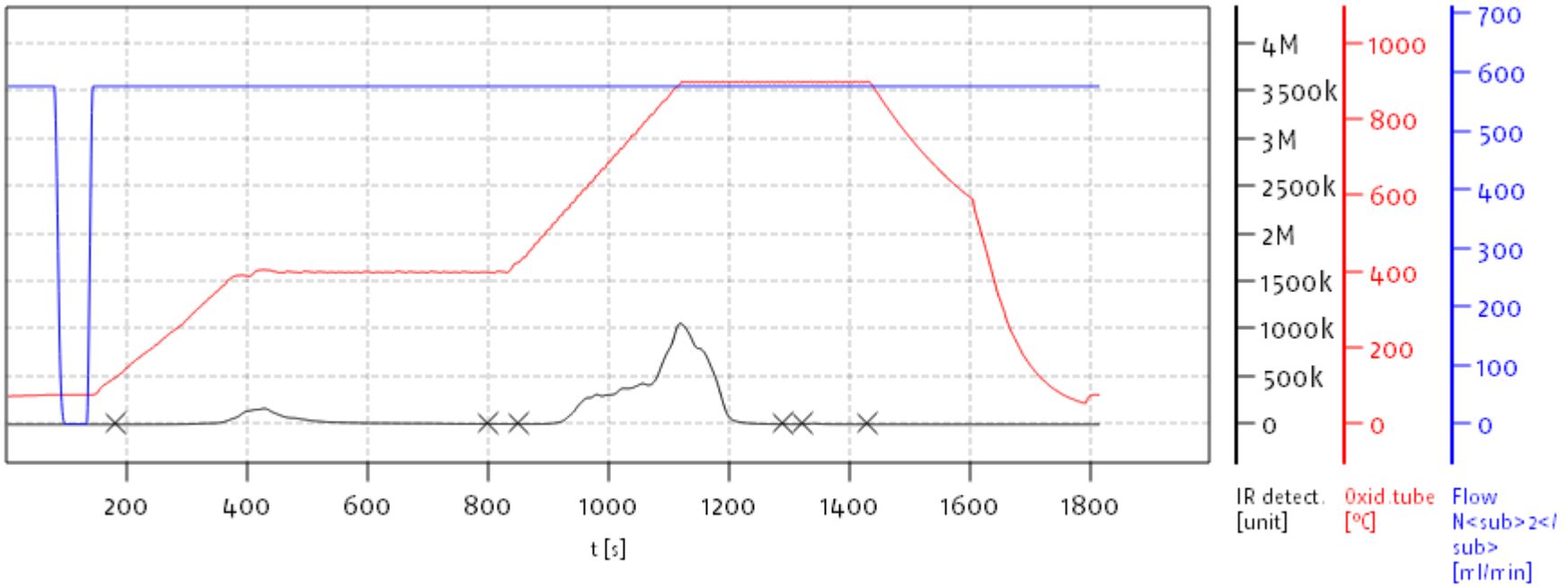
elementar
EXCELLENCE IN ELEMENTS

Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
154	65	21G0404-09	552.80		1.00	CARBON	9/4/2021 5:25 PM	0.207	1.534	1.741	bl	712 562	5 033 350	11 887	0.9659	1.0000



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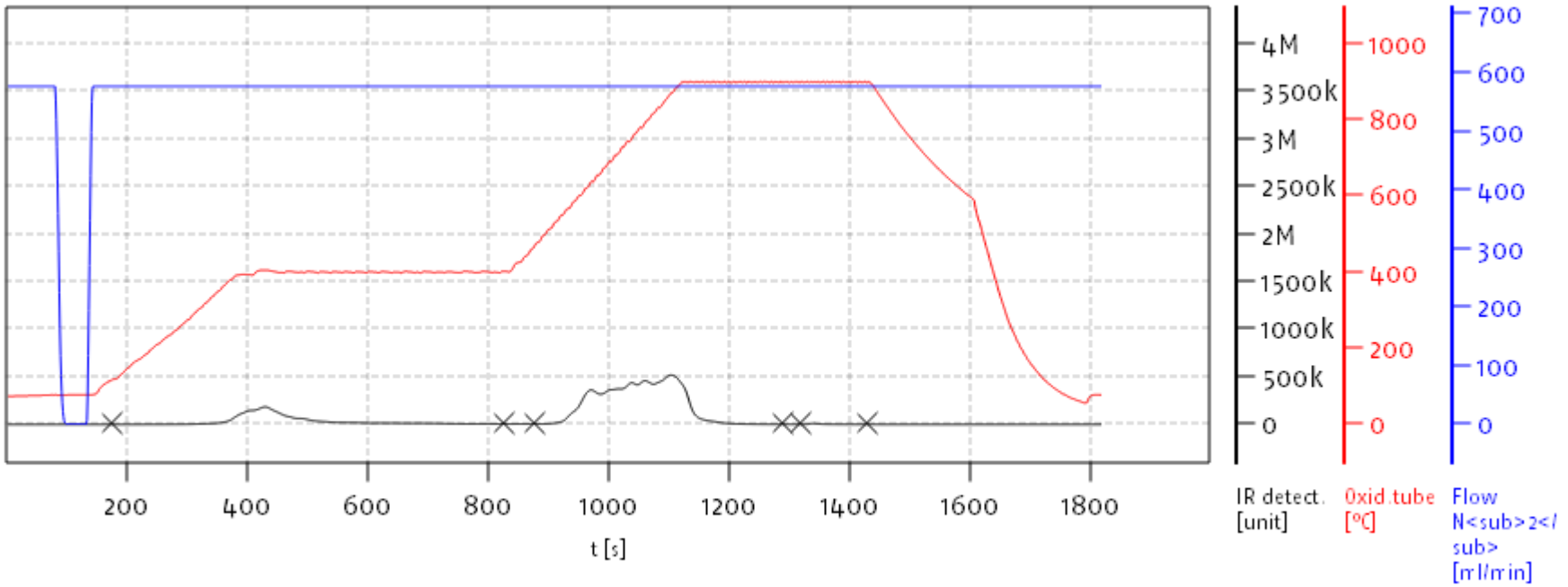
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
155	66	21G0404-10	620.20		1.00	CARBON	9/4/2021 5:56 PM	0.198	0.817	1.014	bl	763 245	3 010 330	10 658	0.9659	1.0000



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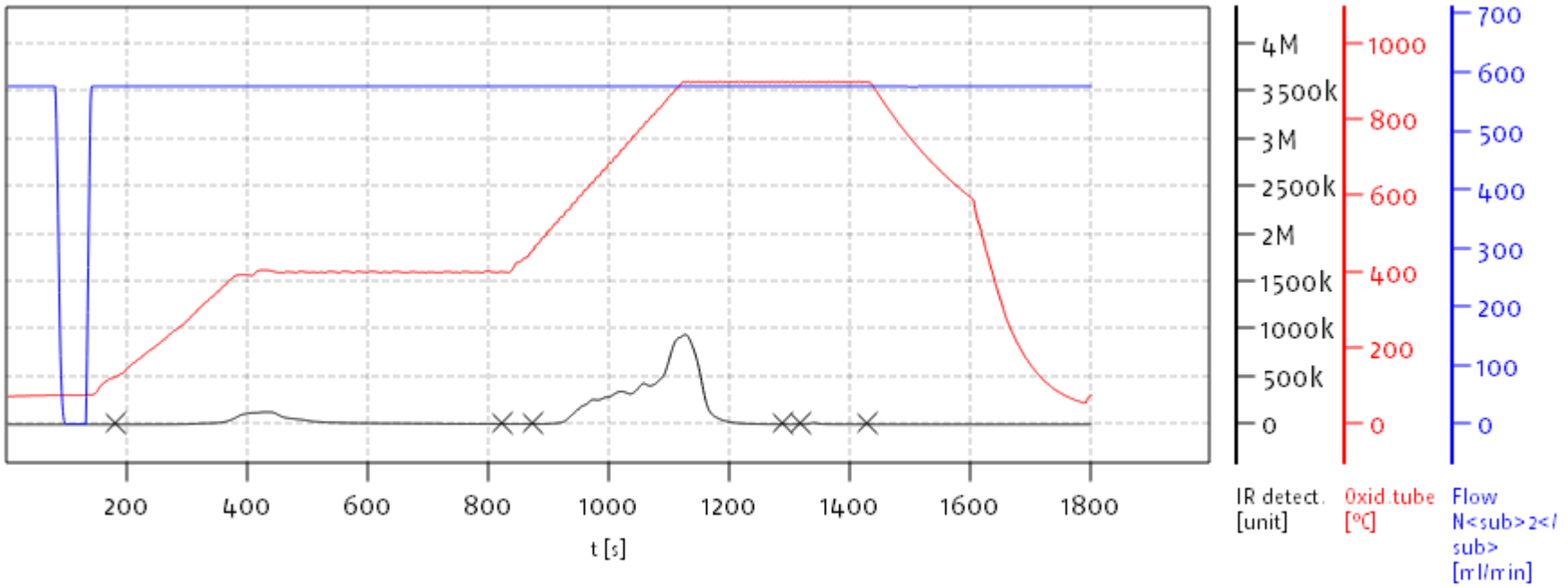
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
156	67	21G0404-11	546.20		1.00	CARBON	9/4/2021 6:26 PM	0.186	1.213	1.400	bl	633 854	3 935 900	13 681	0.9659	1.0000



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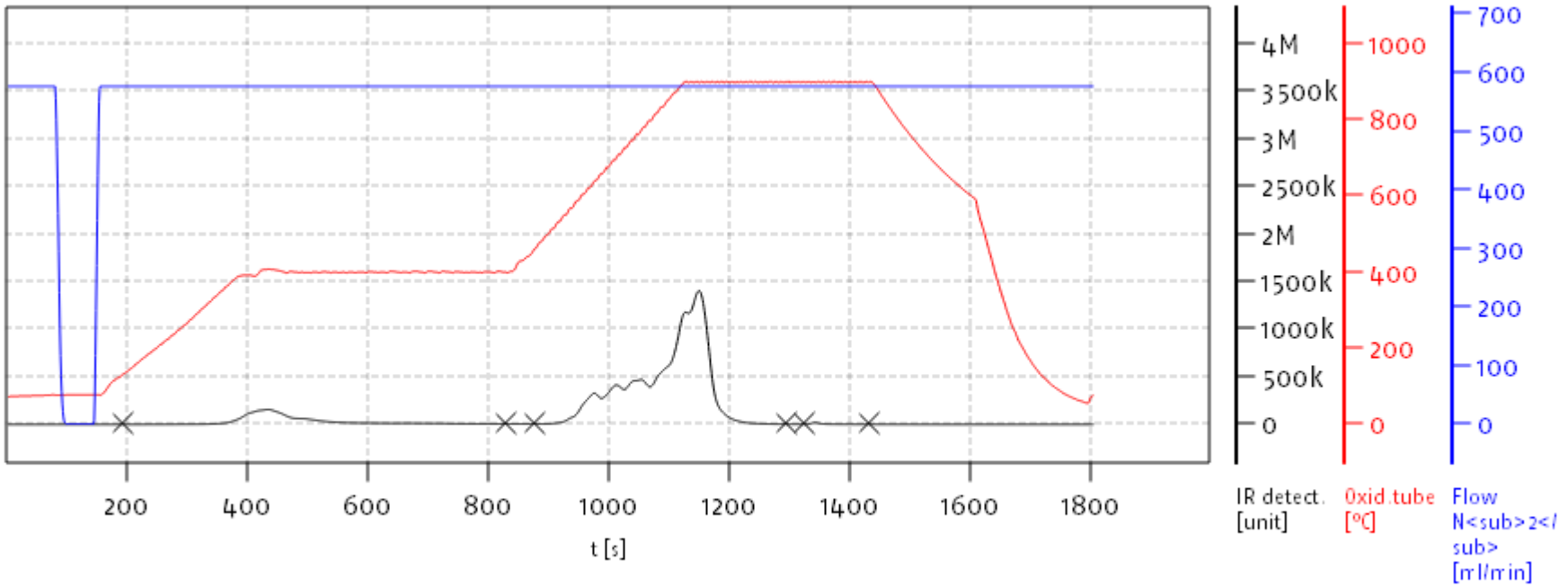
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
157	68	21G0404-12	633.50		1.00	CARBON	9/4/2021 6:57 PM	0.175	1.427	1.602	bl	685 397	5 364 700	17 550	0.9659	1.0000



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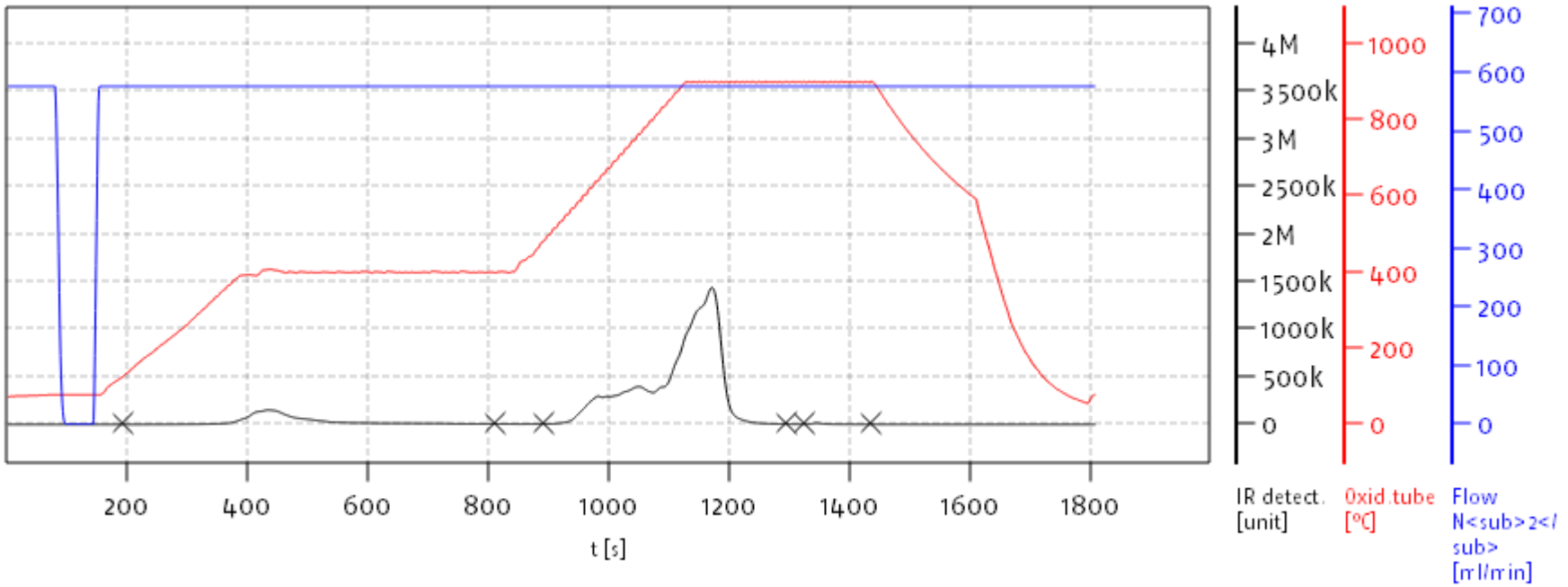
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
158	69	21G0404-13	637.40		1.00	CARBON	9/4/2021 7:27 PM	0.163	1.473	1.636	bl	643 456	5 569 870	16 083	0.9659	1.0000



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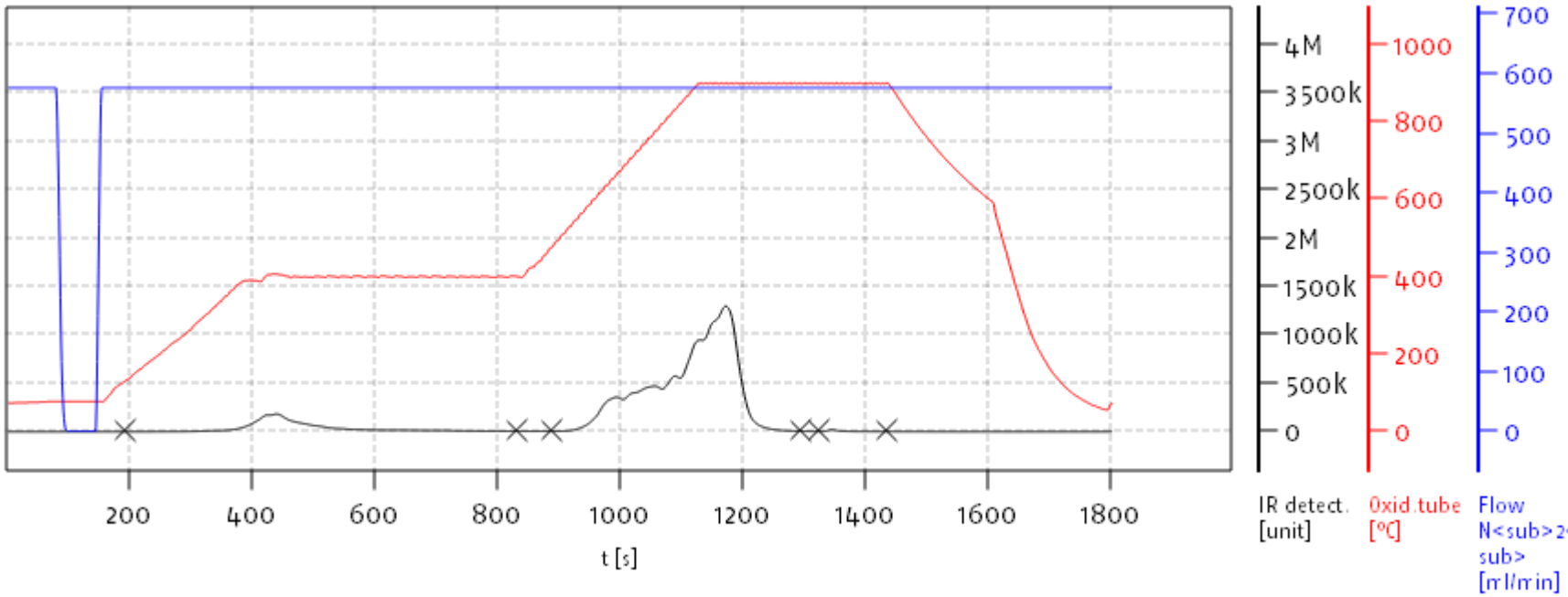
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
159	70	21G0404-14	710.00		1.00	CARBON	9/4/2021 7:58 PM	0.176	1.453	1.629	bl	765 817	6 121 060	21 081	0.9659	1.0000



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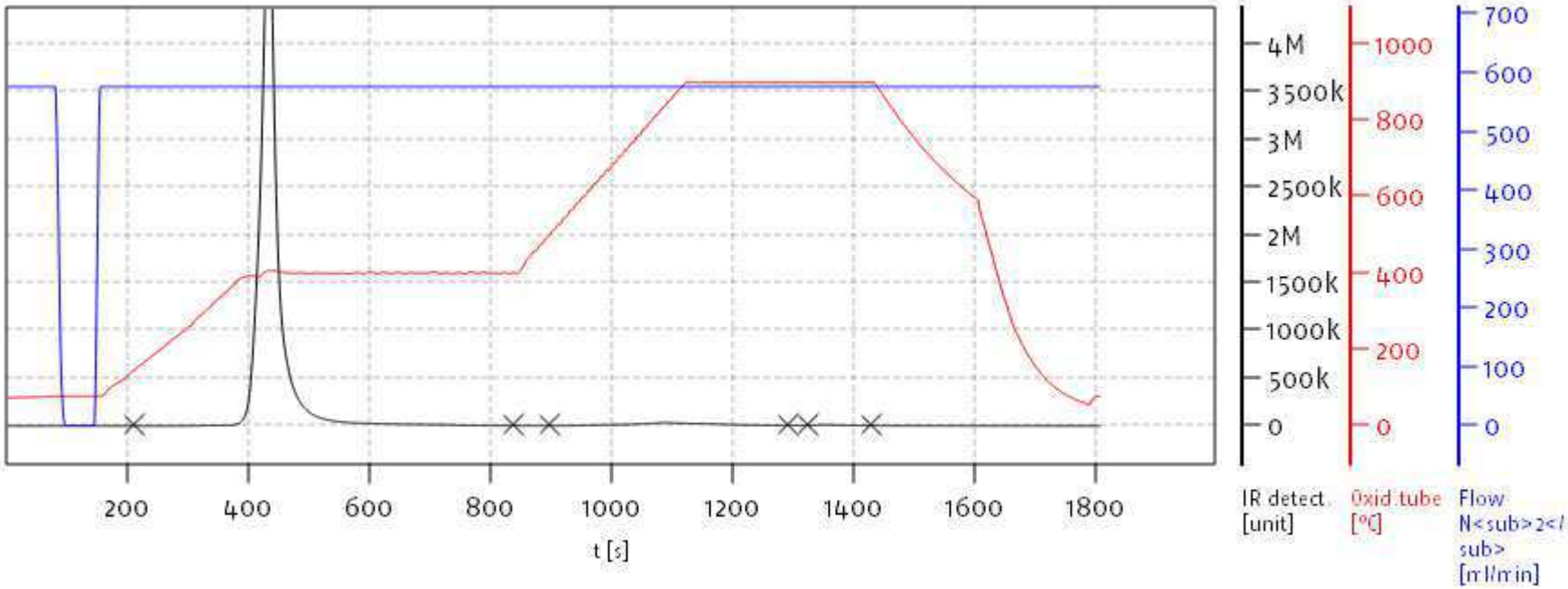
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
160	71	SJH0417-CCVD	24.20		1.00	CARBON	9/4/2021 8:28 PM	44.639	1.387	46.026	bl	6 619 220	210 384	25 610	0.9659	1.0000



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Document: from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
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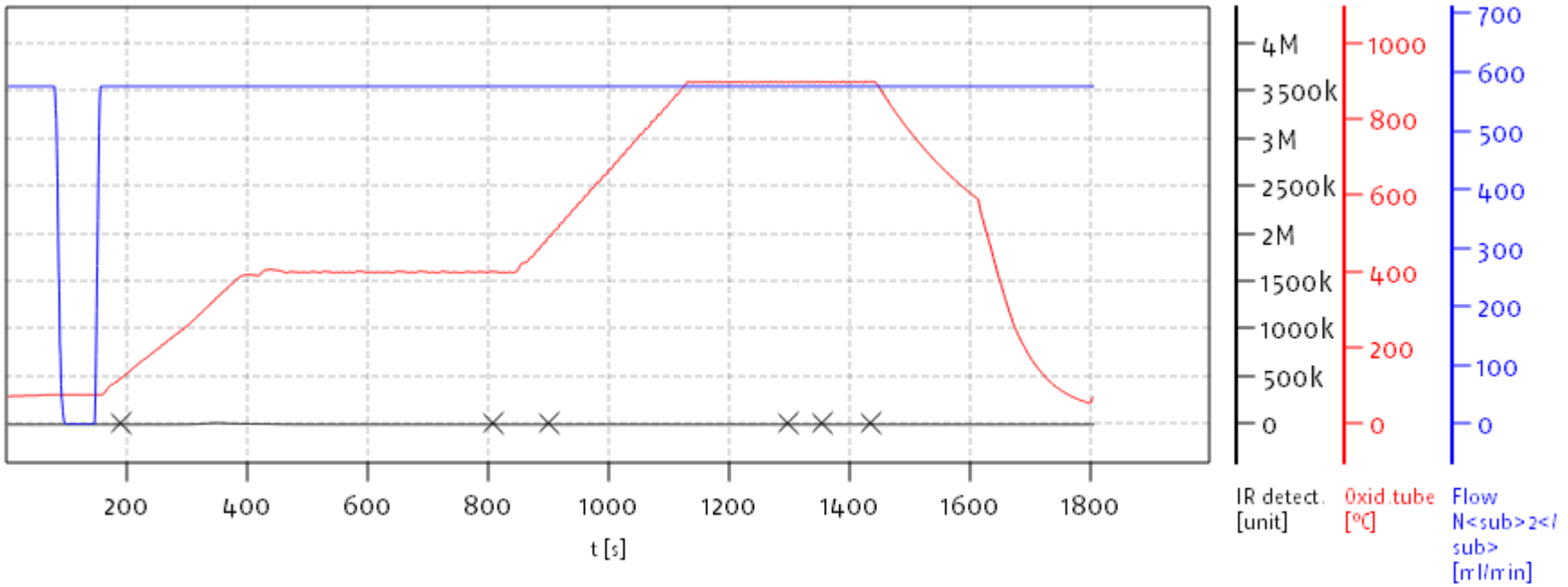
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
161	72	SJH0417-CCBD	601.00		1.00	CARBON	9/4/2021 8:59 PM	0.008	0.000	0.008	bl,C3u,C2u	42 640	3 332	353	0.9659	1.0000



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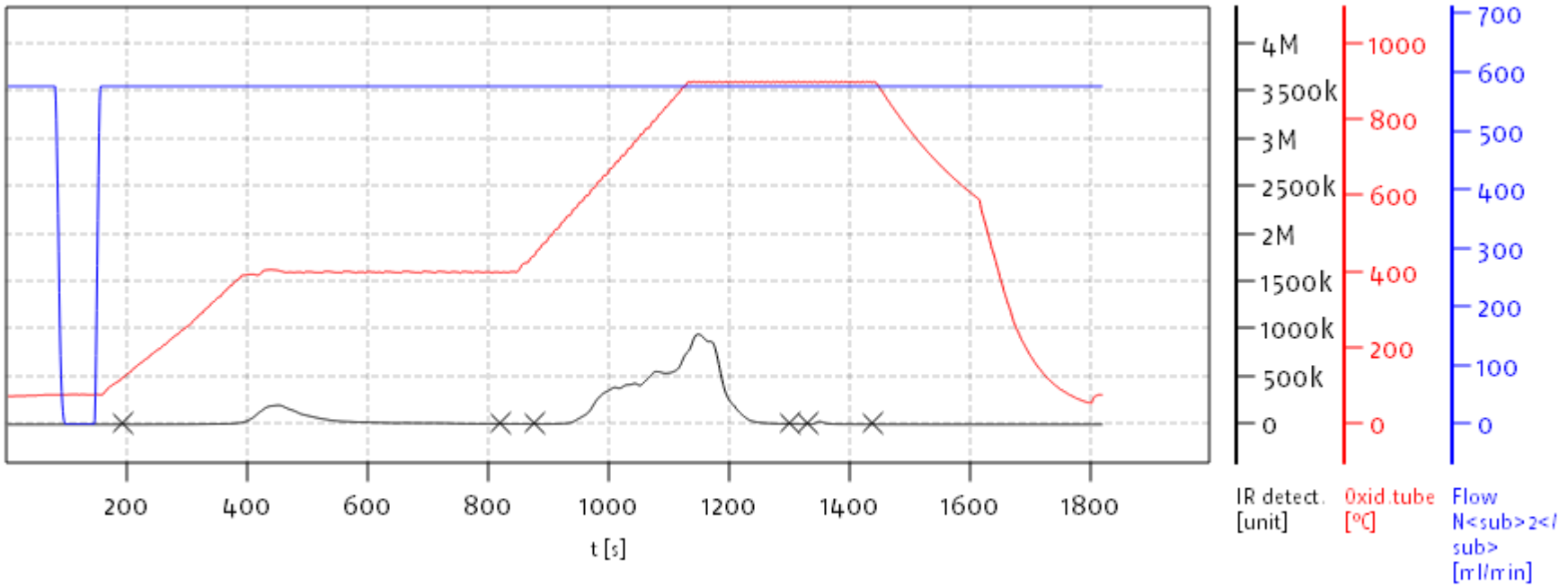
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
162	73	21G0404-15	677.90		1.00	CARBON	9/4/2021 9:30 PM	0.202	1.241	1.442	bl	834 934	4 991 450	25 967	0.9659	1.0000



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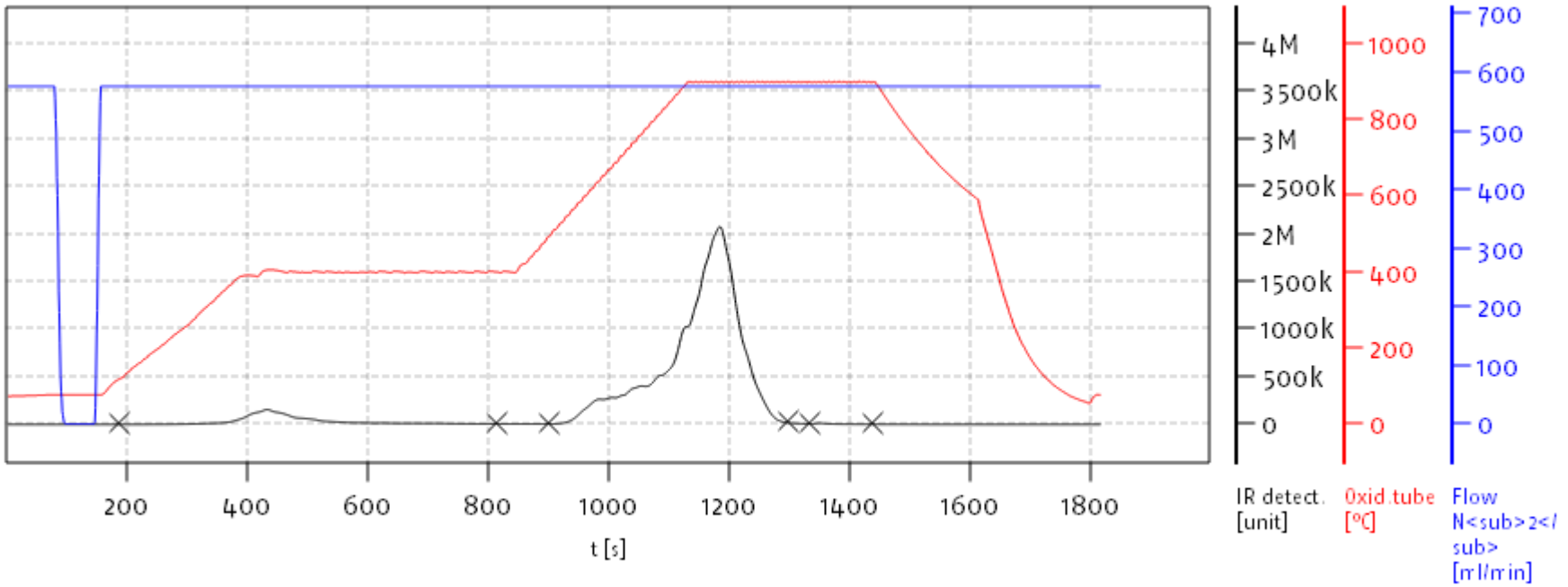
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
163	74	21G0404-16	663.10		1.00	CARBON	9/4/2021 10:00 PM	0.169	2.297	2.466	bl,C3o	690 940	9 029 690	18 887	0.9659	1.0000



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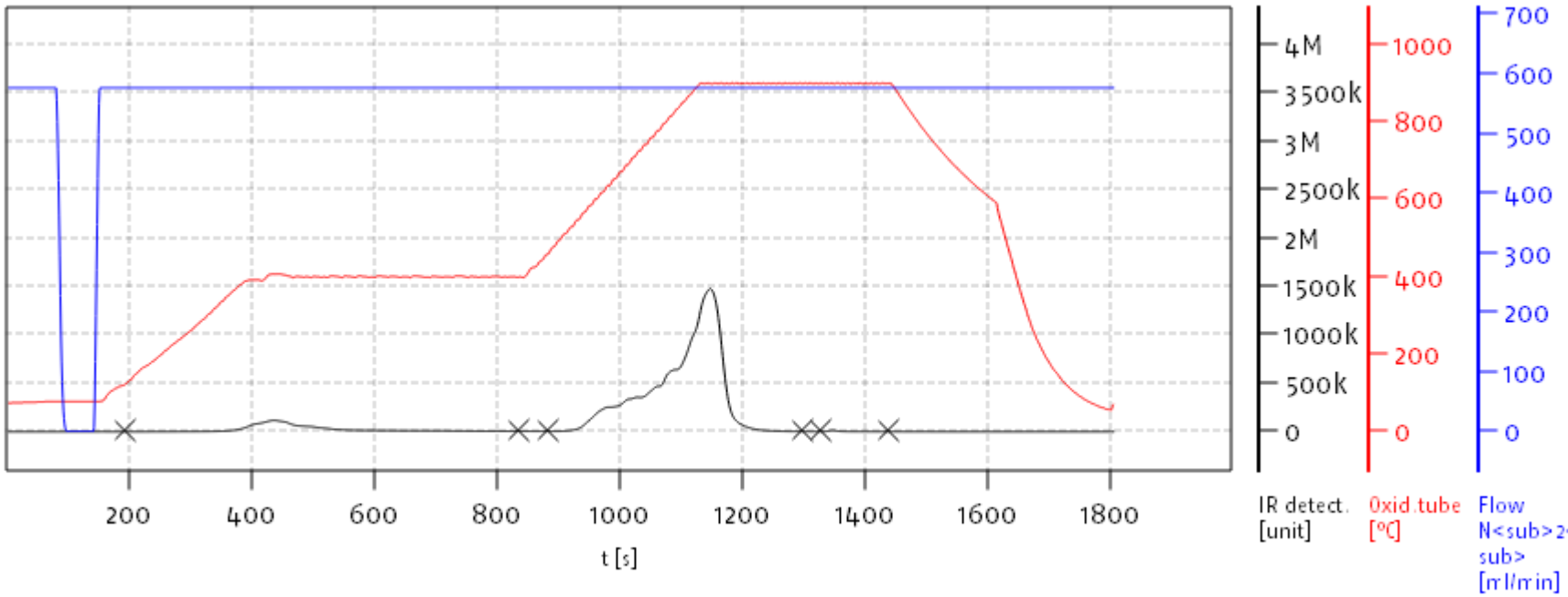
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
164	75	21G0404-17	566.00		1.00	CARBON	9/4/2021 10:31 PM	0.150	1.606	1.756	bl	530 918	5 394 360	12 925	0.9659	1.0000



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Analyst: BF

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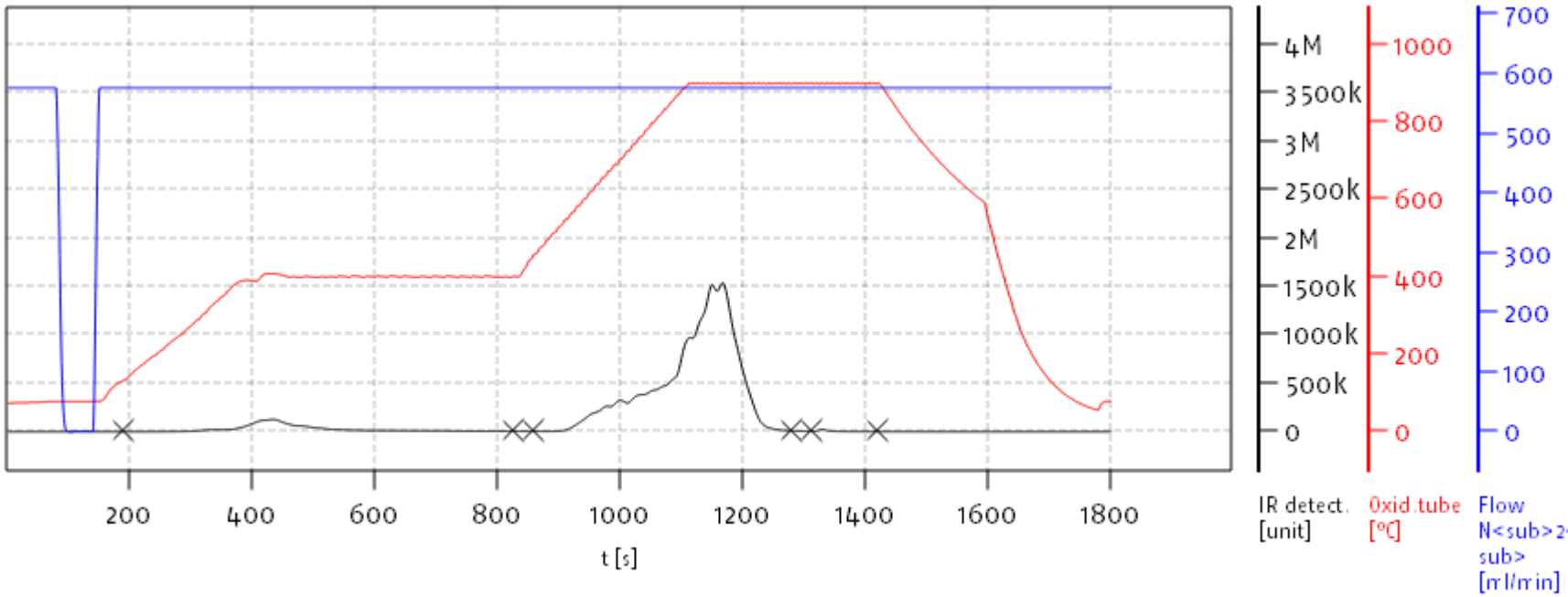
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
165	76	21G0404-18	622.30		1.00	CARBON	9/4/2021 11:01 PM	0.153	1.899	2.052	bl	583 694	7 009 080	21 249	0.9659	1.0000



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Balance: BAL3
Analyst: BF

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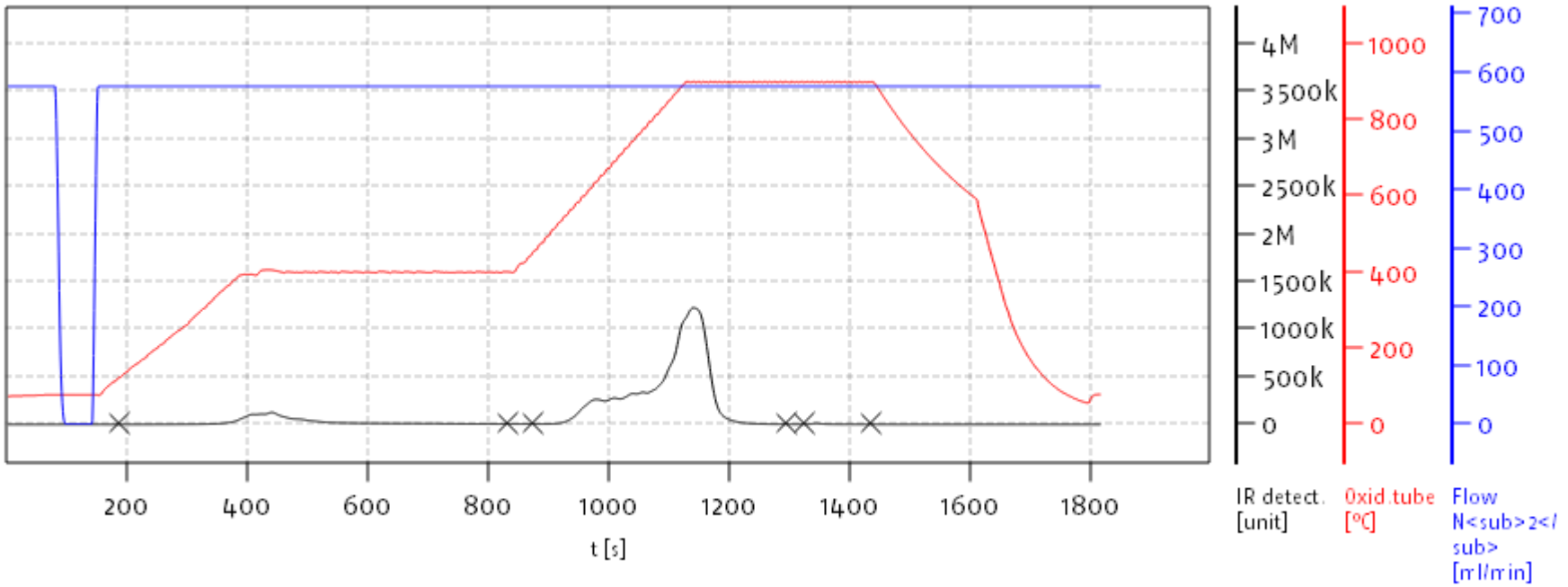
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
166	77	21G0404-19	541.80		1.00	CARBON	9/4/2021 11:32 PM	0.162	1.427	1.589	bl	550 013	4 588 350	12 027	0.9659	1.0000



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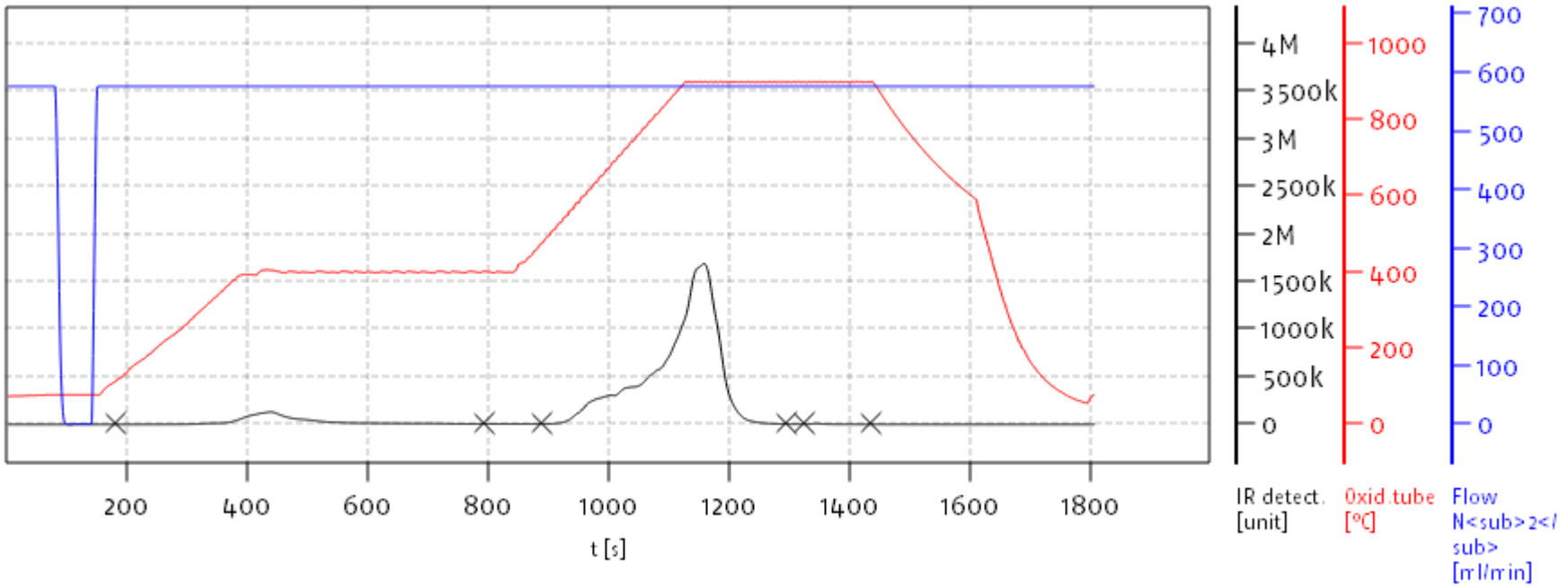
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
167	78	21G0404-20	591.30		1.00	CARBON	9/5/2021 12:03 AM	0.160	1.918	2.078	bl	590 136	6 727 000	12 136	0.9659	1.0000



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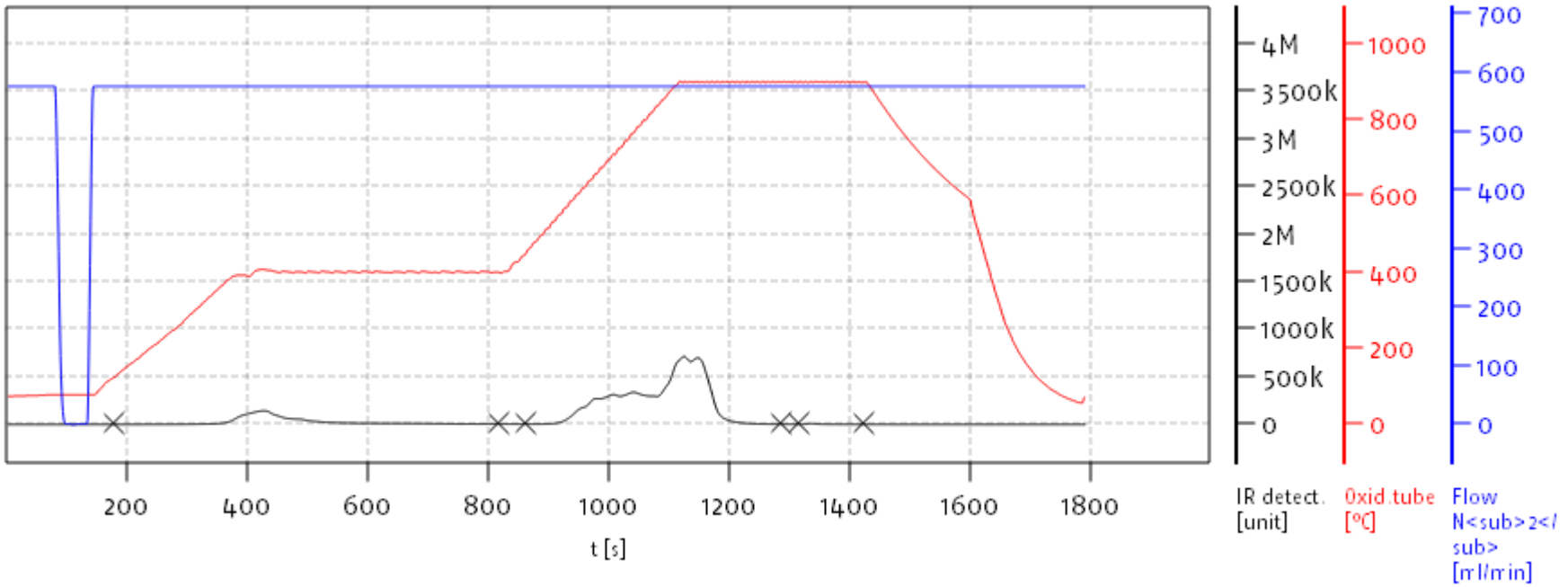
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
168	62	21G0404-06	533.50		1.00	CARBON	9/5/2021 12:33 AM	0.179	1.125	1.304	bl	597 419	3 565 740	10 508	0.9659	1.0000



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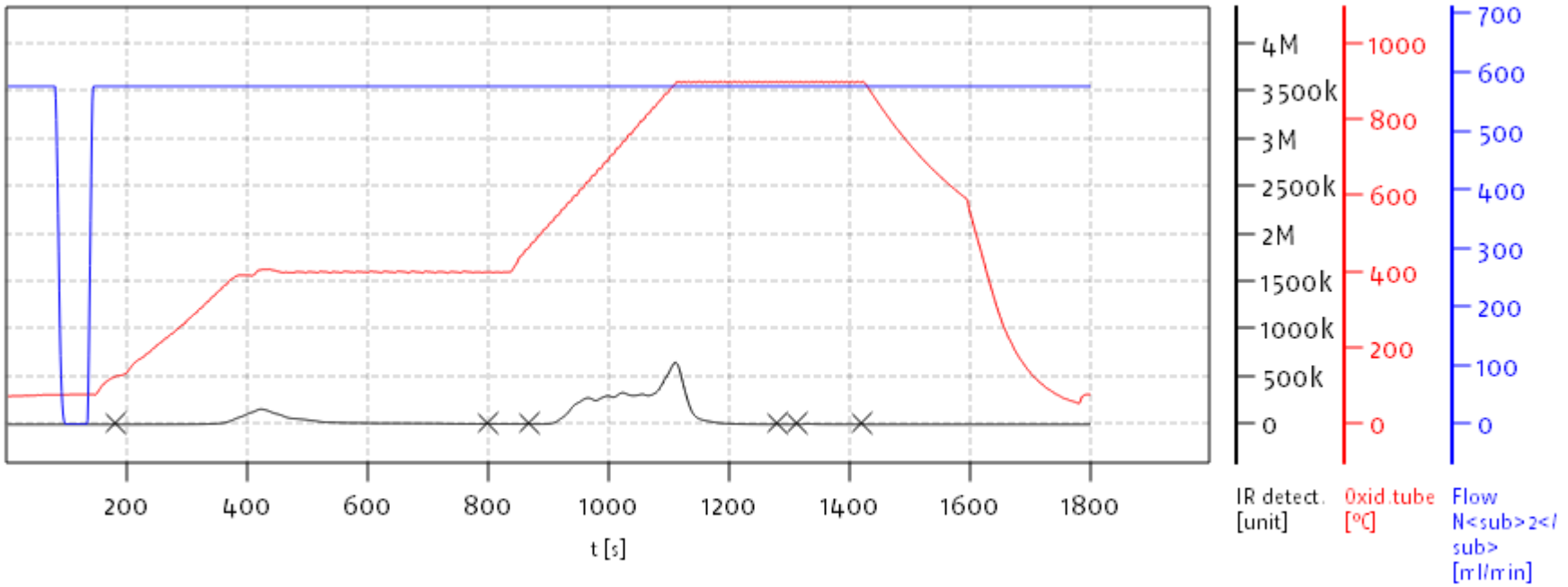
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
169	63	21G0404-07	539.20		1.00	CARBON	9/5/2021 1:03 AM	0.191	0.846	1.037	bl	643 913	2 712 040	7 911	0.9659	1.0000



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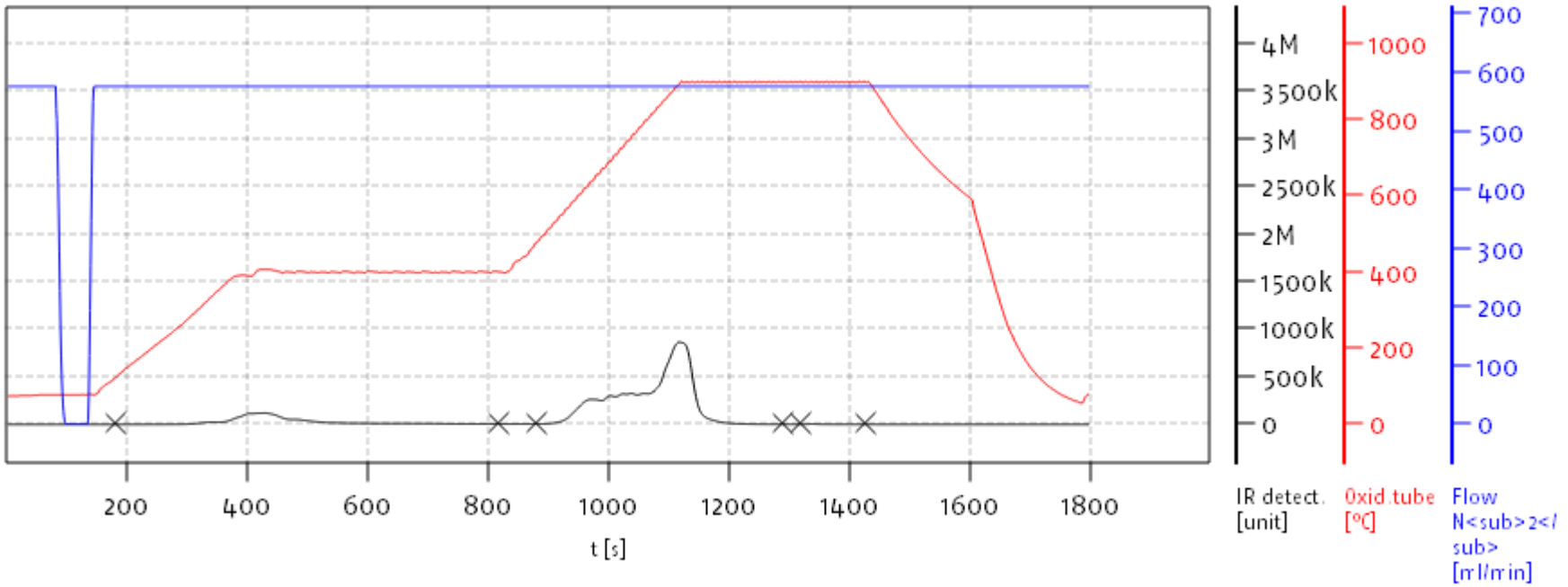
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
170	64	21G0404-08	516.70		1.00	CARBON	9/5/2021 1:34 AM	0.183	1.078	1.261	bl,C2u	591 304	3 310 160	6 897	0.9659	1.0000



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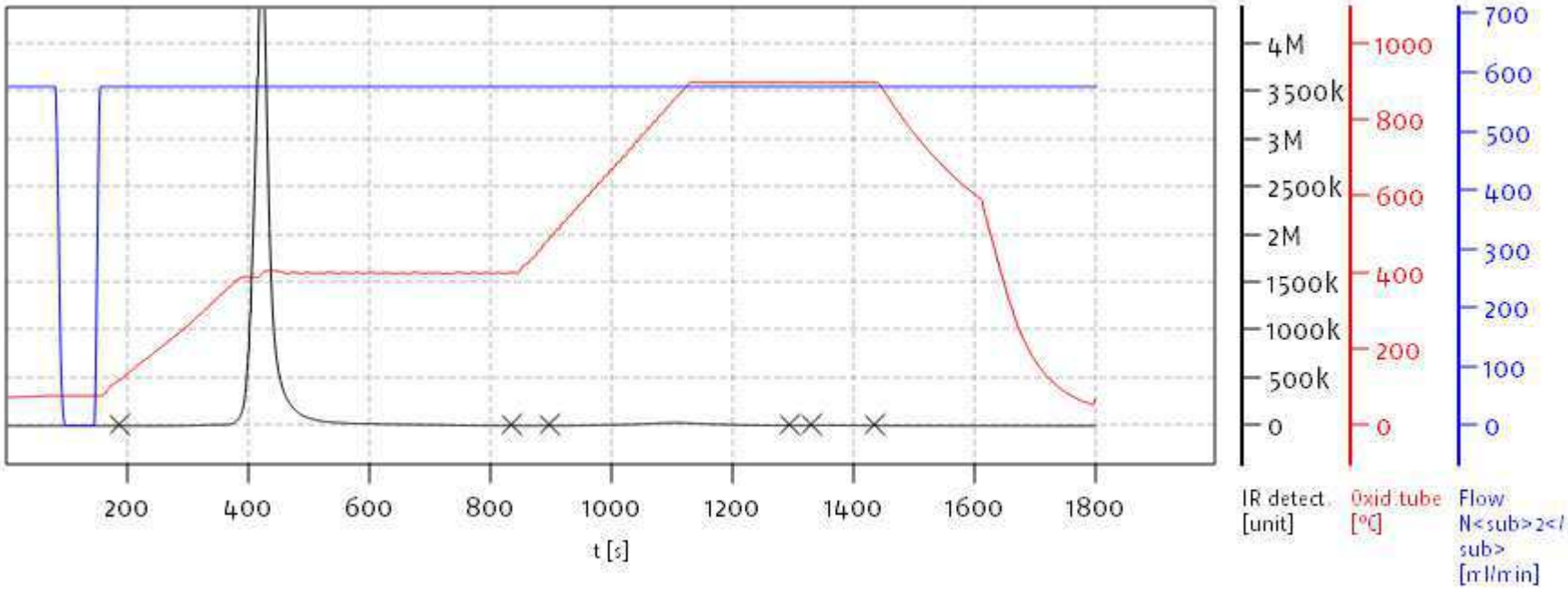
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
171	82	SJH0417-CCVE	20.70		1.00	CARBON	9/5/2021 2:04 AM	44.006	1.526	45.532	bl	5 590 000	198 692	17 093	0.9659	1.0000



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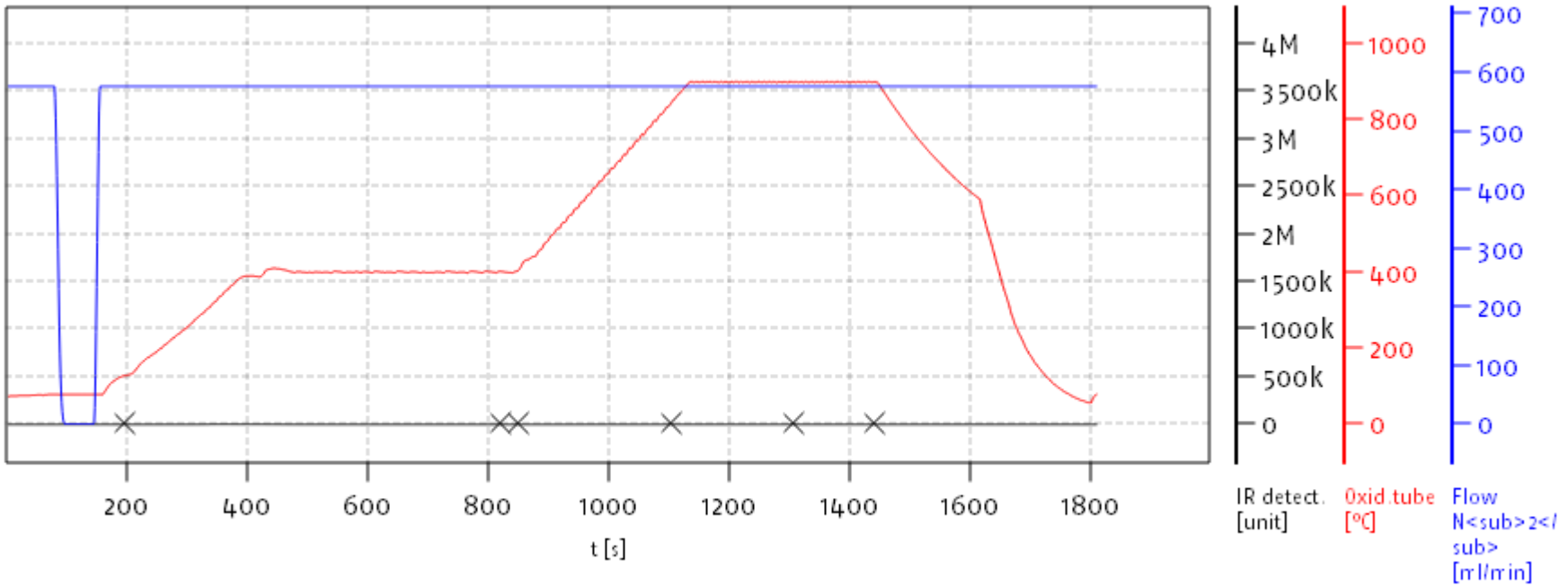
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
172	83	SJH0417-CCBE	669.30		1.00	CARBON	9/5/2021 2:35 AM	0.000	0.000	0.000	bl,C3u,C2u	9 031	185	277	0.9659	1.0000



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INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00065	Instrument:	TOC Cube
Calibration Date:	08/24/2021 17:16		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Total Organic Carbon	0.005112	1267041	0.01624	1156589	0.020451	1208352	0.030375	1027852	0.045412	1355038	0.060149	1226039
Total Carbon	0.005112	1267041	0.01624	1156589	0.020451	1208352	0.030375	1027852	0.045412	1355038	0.060149	1226039
Total Inorganic Carbon	0.005112	1267041	0.01624	1156589	0.020451	1208352	0.030375	1027852	0.045412	1355038	0.060149	1226039
% Soot	0.005112	1267041	0.01624	1156589	0.020451	1208352	0.030375	1027852	0.045412	1355038	0.060149	1226039

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00065	Instrument:	TOC Cube
Calibration Date:	08/24/2021 17:16		

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
		RF		RF		RF		RF		RF		RF
Total Organic Carbon	0.076991	1301360	0.091126	1300200	0.1191	1370840	0.14977	1231288	0.252	1210857	0.336	1231923
Total Carbon	0.076991	1301360	0.091126	1300200	0.1191	1370840	0.14977	1231288	0.252	1210857	0.336	1231923
Total Inorganic Carbon	0.076991	1301360	0.091126	1300200	0.1191	1370840	0.14977	1231288	0.252	1210857	0.336	1231923
% Soot	0.076991	1301360	0.091126	1300200	0.1191	1370840	0.14977	1231288	0.252	1210857	0.336	1231923

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00065	Instrument:	TOC Cube
Calibration Date:	08/24/2021 17:16		

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
		RF		RF		RF		RF		RF		RF
Total Organic Carbon	0.414	1268309	0.582	1278292	0.882	1265125	1.194	1264020	1.518	1271667	1.812	1261887
Total Carbon	0.414	1268309	0.582	1278292	0.882	1265125	1.194	1264020	1.518	1271667	1.812	1261887
Total Inorganic Carbon	0.414	1268309	0.582	1278292	0.882	1265125	1.194	1264020	1.518	1271667	1.812	1261887
% Soot	0.414	1268309	0.582	1278292	0.882	1265125	1.194	1264020	1.518	1271667	1.812	1261887

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00065	Instrument:	TOC Cube
Calibration Date:	08/24/2021 17:16		

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
		RF		RF		RF		RF		RF		RF
Total Organic Carbon	2.4	1255529	2.988	1141805	4.194	1173122	4.818	1173843	5.412	1191617	7.224	1189552
Total Carbon	2.4	1255529	2.988	1141805	4.194	1173122	4.818	1173843	5.412	1191617	7.224	892723
Total Inorganic Carbon	2.4	1255529	2.988	1141805	4.194	1173122	4.818	1173843	5.412	1191617	7.224	892723
% Soot	2.4	1255529	2.988	1141805	4.194	1173122	4.818	1173843	5.412	1191617	7.224	892723

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

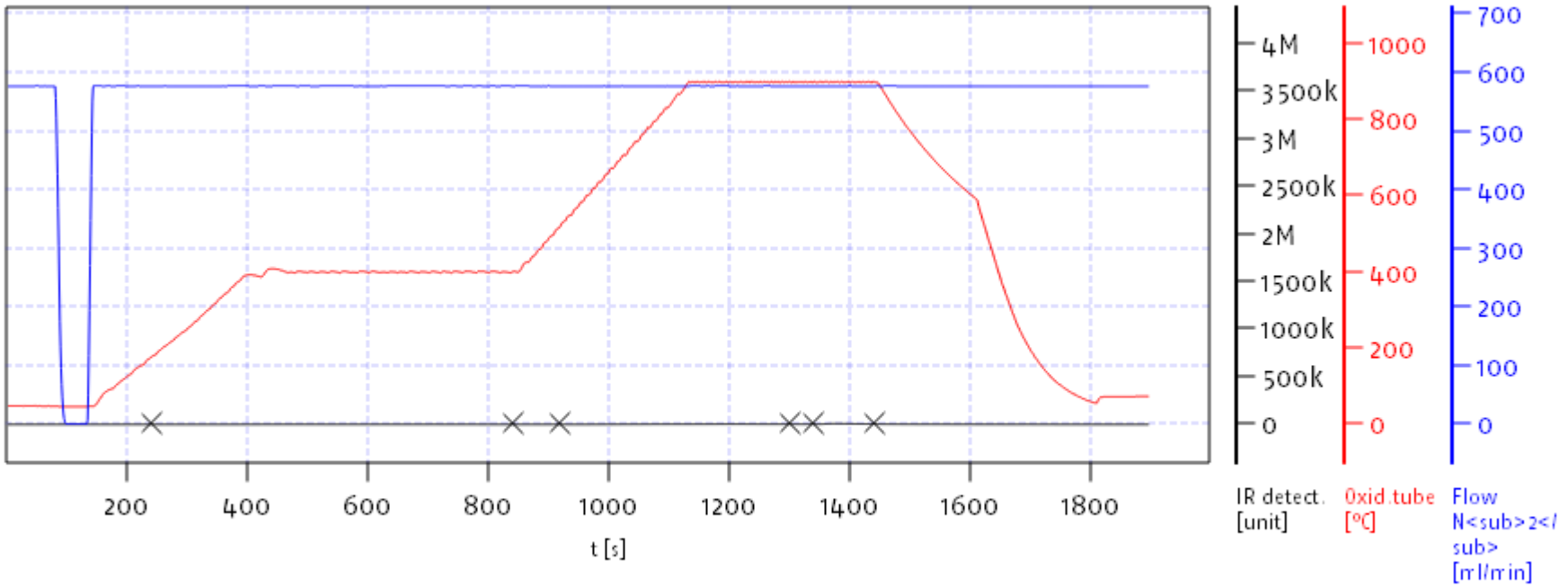
Laboratory:	Analytical Resources, Inc.	SDG:	21H0263
Client:	Anchor QEA, LLC	Project:	Lower Duwamish AOC4
Calibration:	EH00065	Instrument:	TOC Cube
Calibration Date:	08/24/2021 17:16		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1234256	5.9	0.9993			
Total Carbon	1221888	8.2	0.9742			
Total Inorganic Carbon	1221888	8.2	0.9742			
% Soot	1221888	8.2	0.9742			

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	9	BLANK	1.00		1.00	CARBON	8/24/2021 6:00 PM	0.000	0.000	0.000	bl	13 861	33 454	21 567	1.0000	1.0000



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Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
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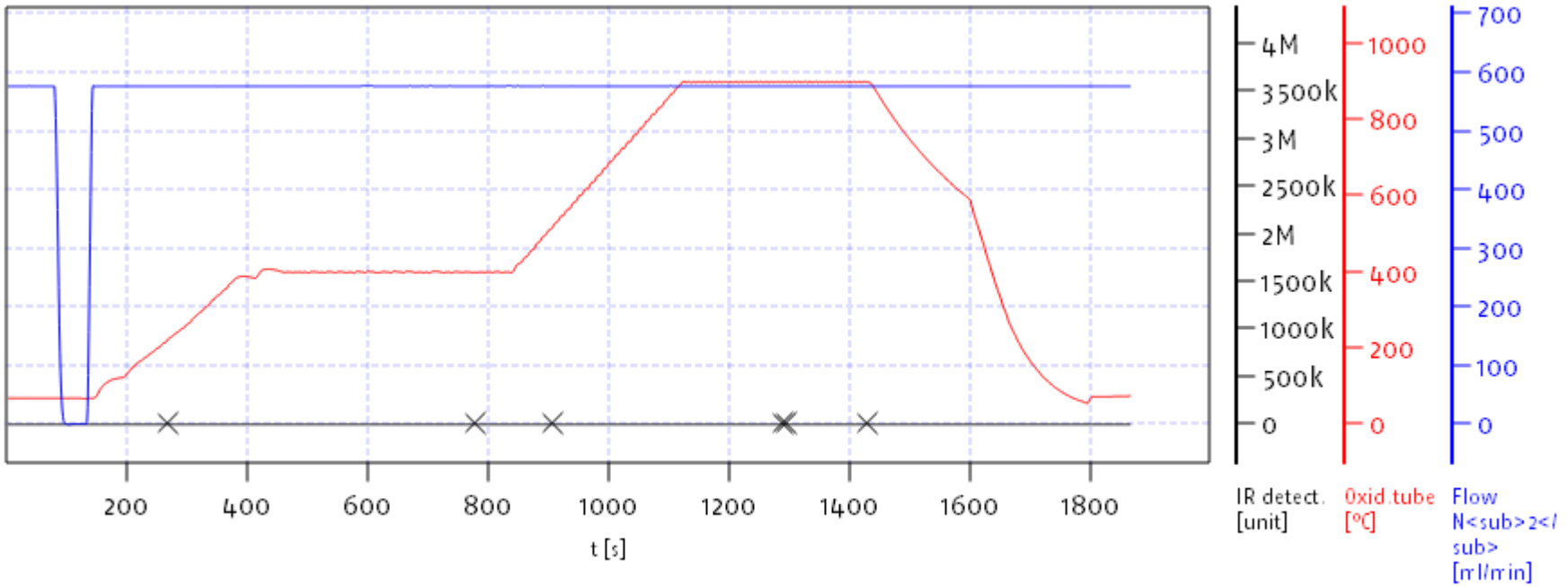
Document: TOC Calibration EH00065 082421BFb from: 8/25/2021 11:47 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	10	BLANK	1.00		1.00	CARBON	8/24/2021 6:31 PM	0.000	0.000	0.000	bl	1 643	8	245	1.0000	1.0000



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Balance: BAL3
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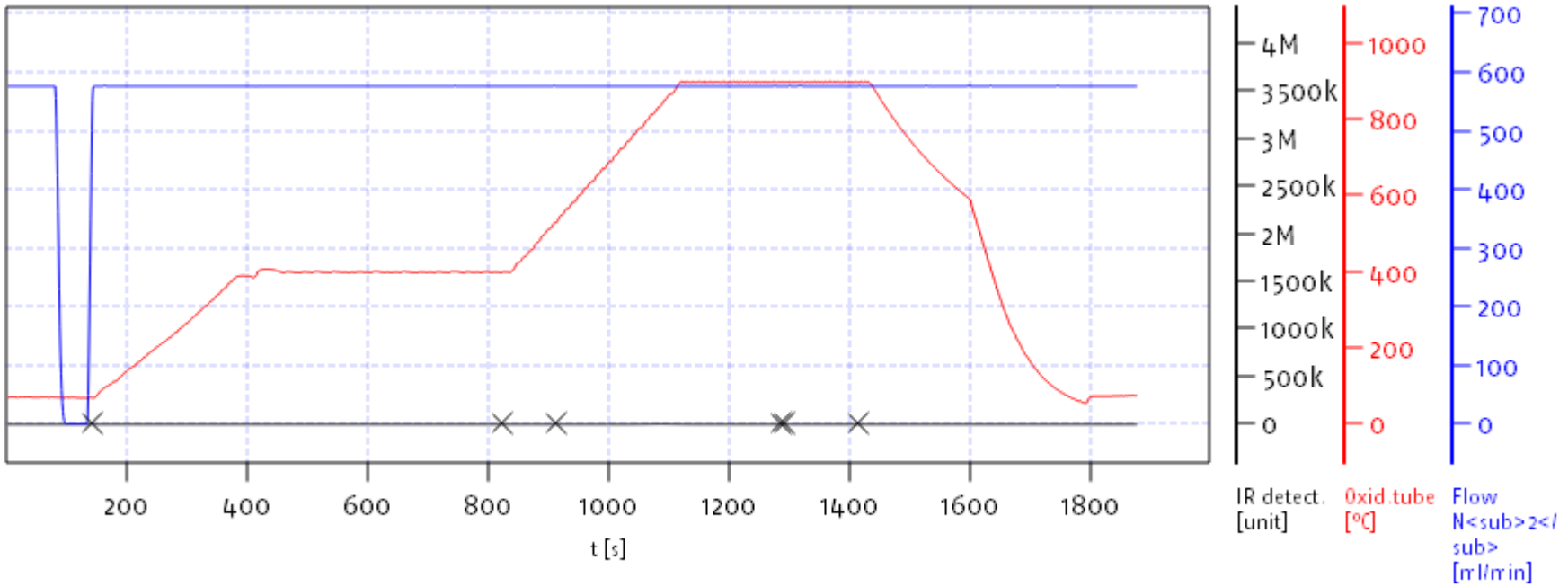
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	11	SEQ-CAL1	200.00	0.0017	1.00	CARBON	8/24/2021 7:03 PM	0.000	0.008	0.008	bl,C1u,C3u,C2u	1 070	6 478	141	1.0000	1.1719



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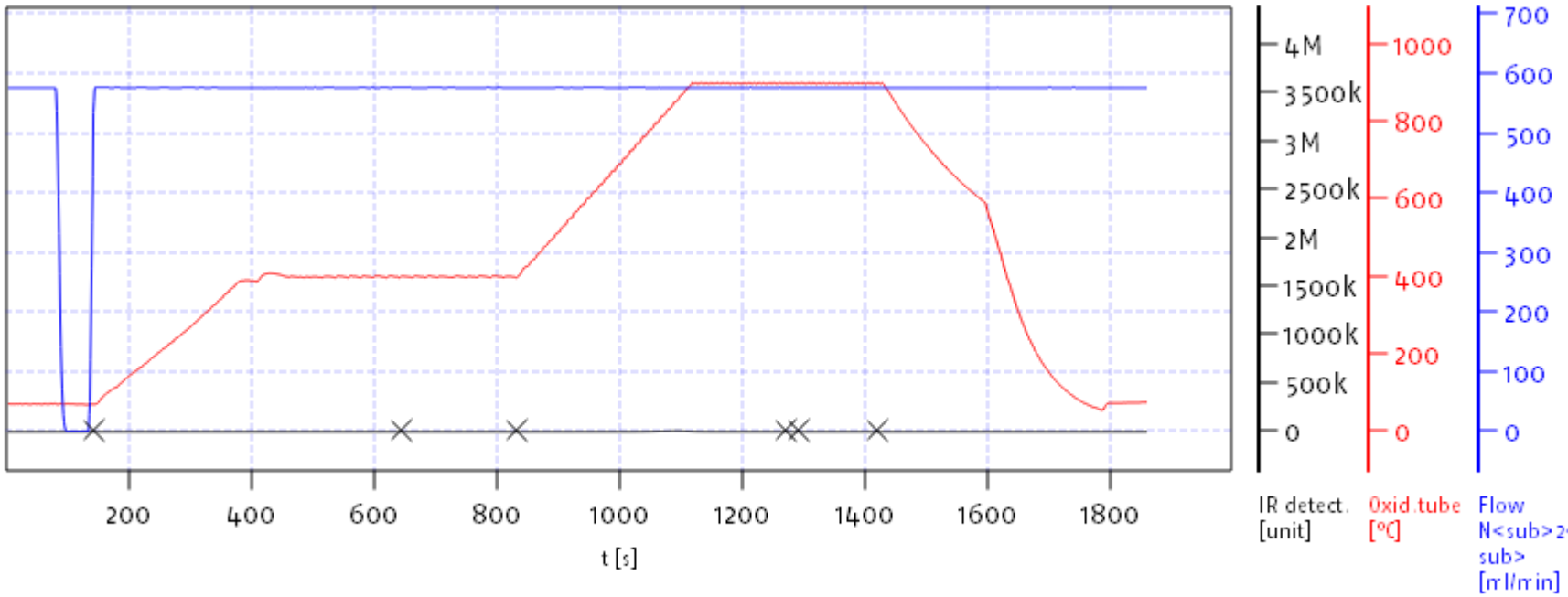
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	12	SEQ-CAL2	200.00	0.0054	1.00	CARBON	8/24/2021 7:34 PM	0.000	0.015	0.015	bl,C1u,C2u	660	18 783	85	1.0000	0.9072



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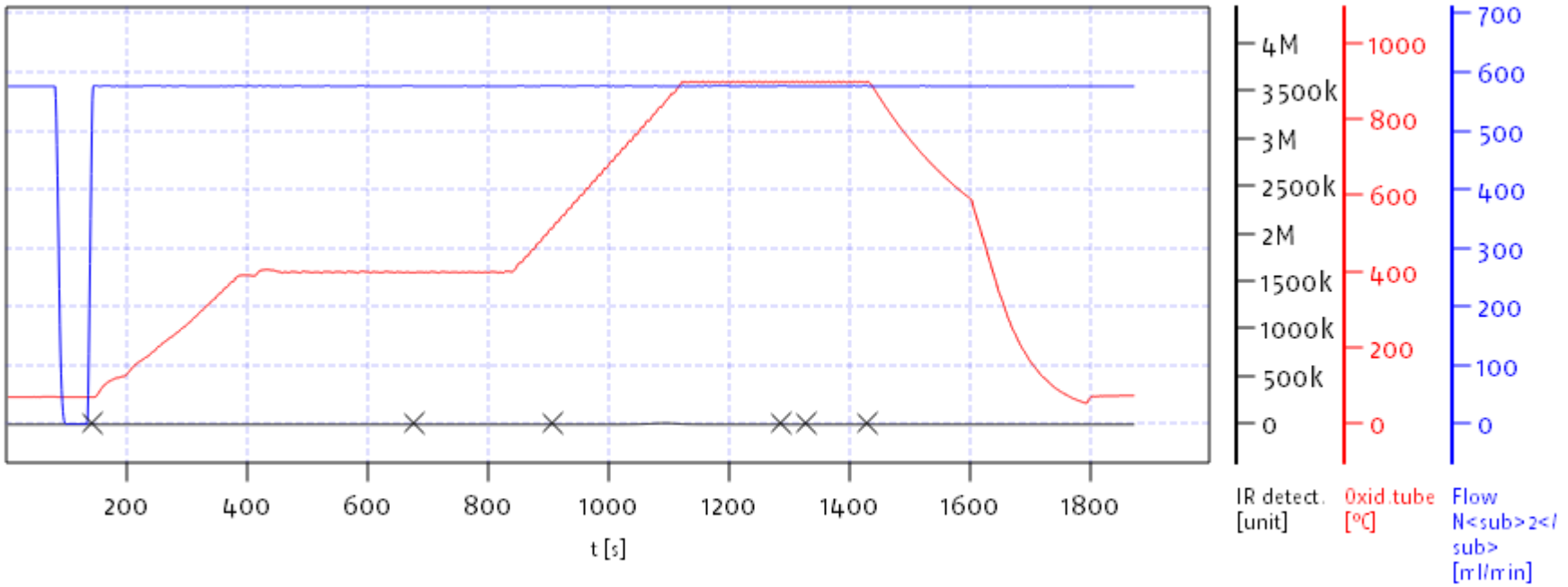
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	13	SEQ-CAL3	200.00	0.0068	1.00	CARBON	8/24/2021 8:06 PM	0.000	0.022	0.022	bl,C1u,C2u	889	24 712	60	1.0000	1.0307



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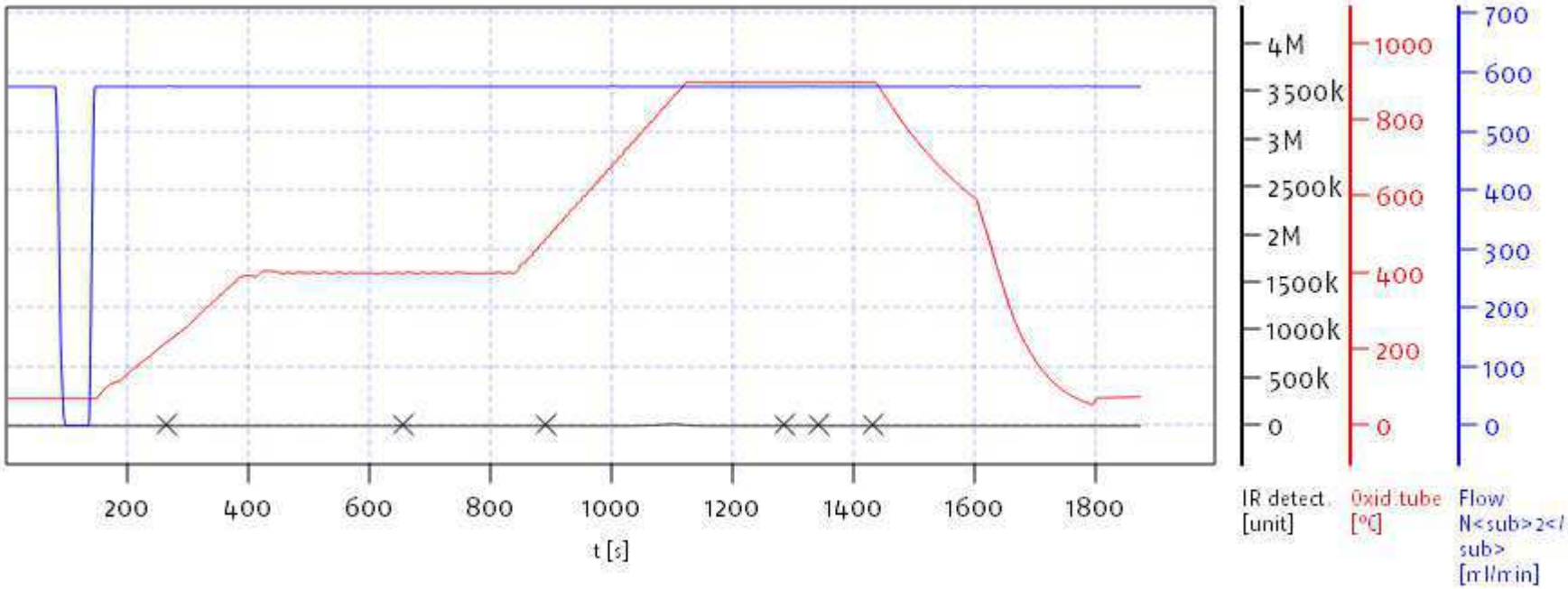
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	14	SEQ-CAL4	200.00	0.0101	1.00	CARBON	8/24/2021 8:38 PM	0.000	0.030	0.030	bl,C1u,C2u	1 503	31 221	84	1.0000	1.1361



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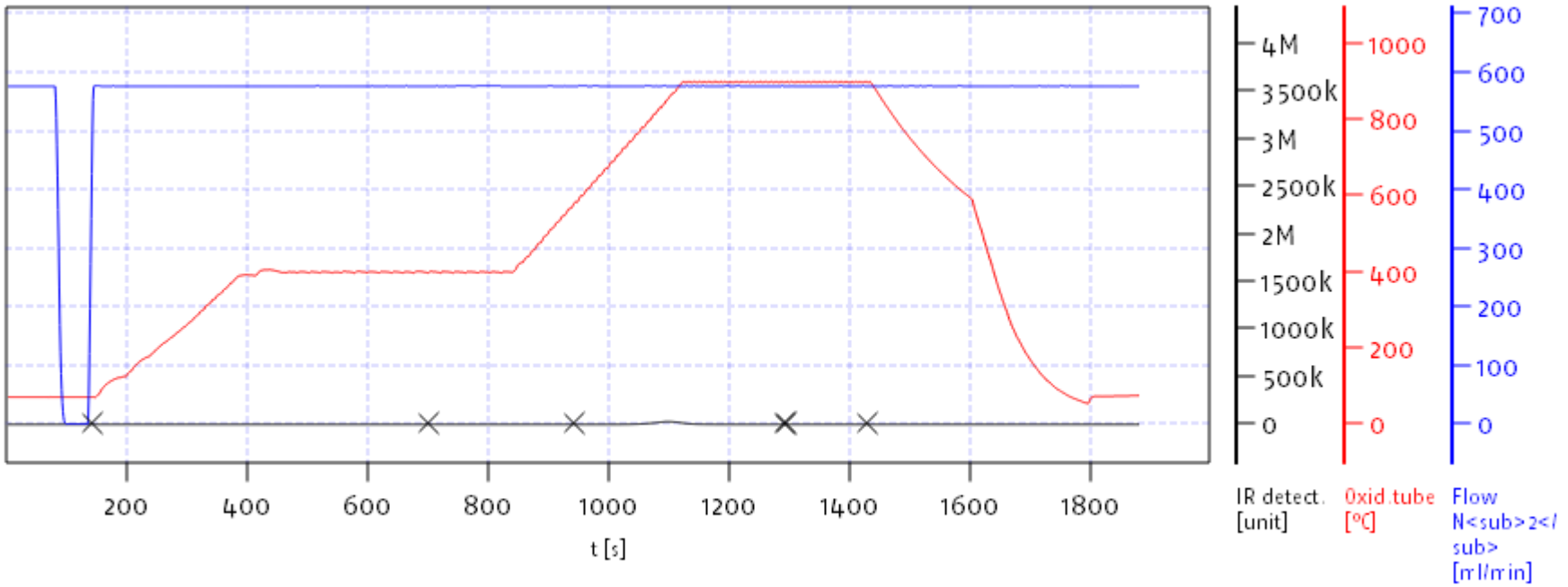
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	15	SEQ-CAL5	200.00	0.0151	1.00	CARBON	8/24/2021 9:10 PM	0.000	0.045	0.045	bl,C1u,C2u	776	61 535	62	1.0000	0.8900



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Soli TOC Cube, Carbon
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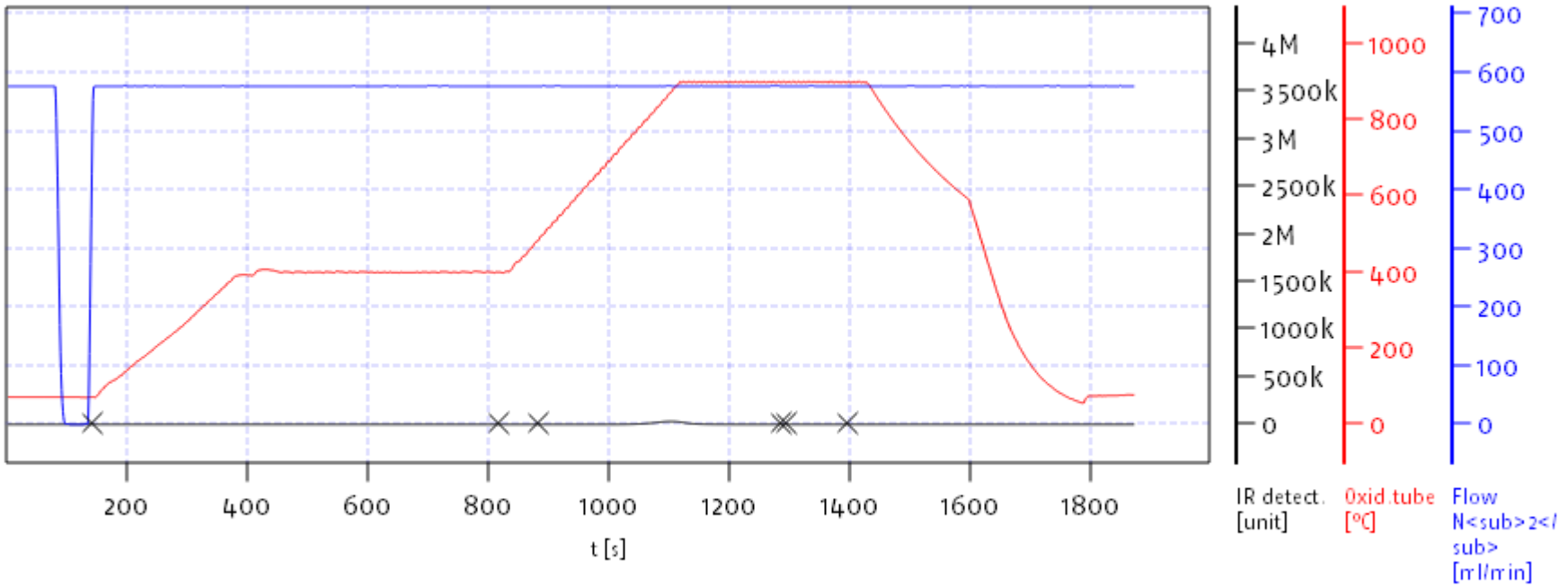
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	16	SEQ-CAL6	200.00	0.0200	1.00	CARBON	8/24/2021 9:41 PM	0.000	0.061	0.061	bl,C1u,C2u	1 086	73 745	55	1.0000	1.0168



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Balance: BAL3
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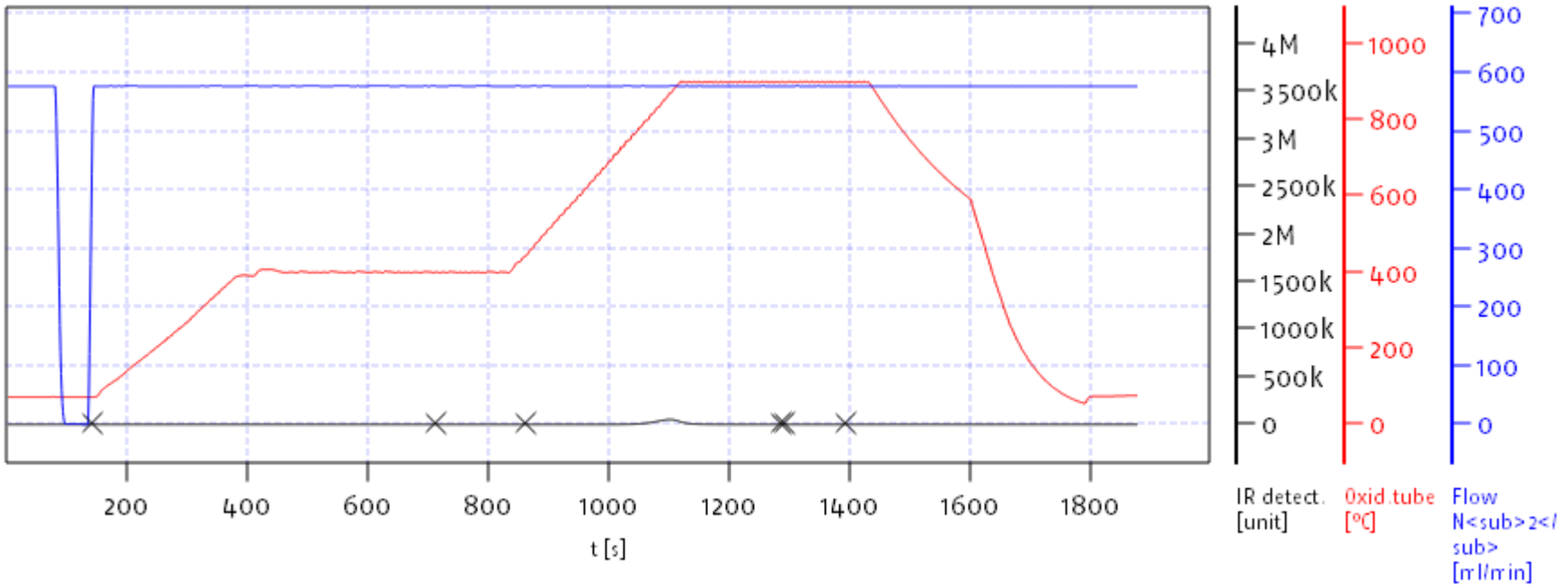
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	17	SEQ-CAL7	200.00	0.0256	1.00	CARBON	8/24/2021 10:13 PM	0.000	0.075	0.075	bl,C1u,C2u	1 149	100 193	99	1.0000	0.9293



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Soli TOC Cube, Carbon
Balance: BAL3
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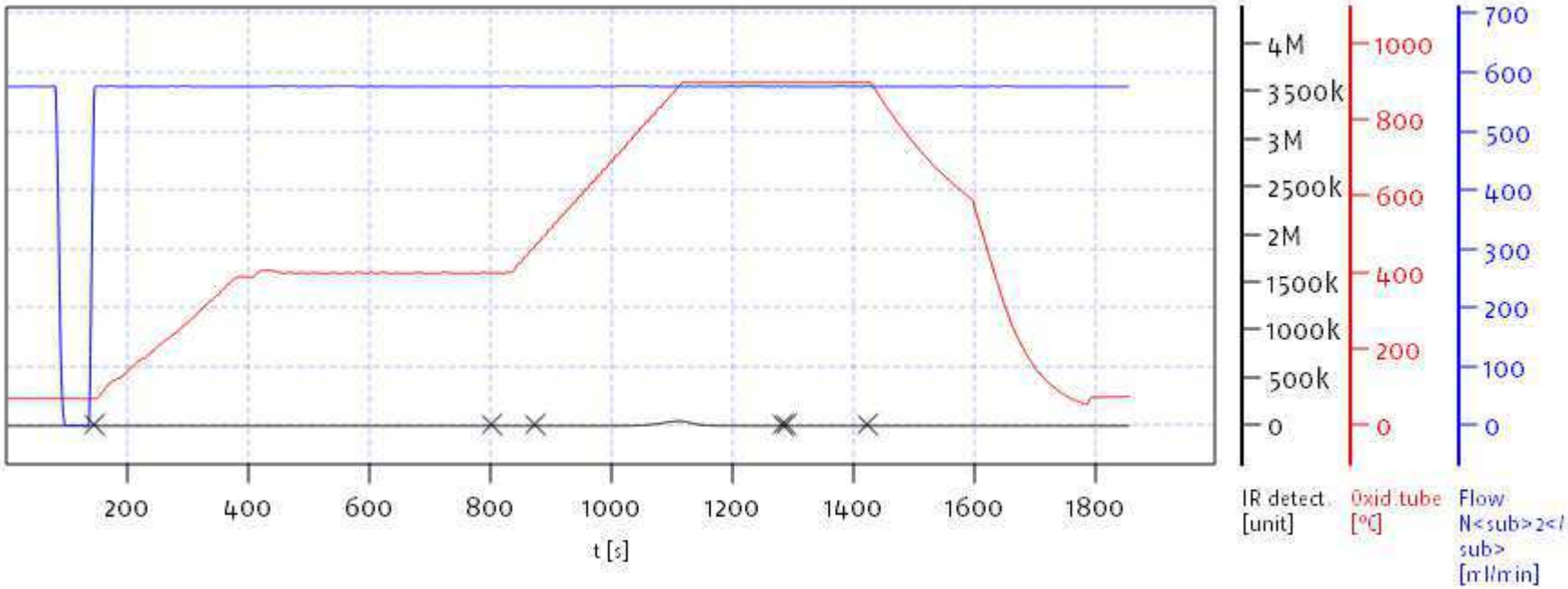
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	18	SEQ-CAL8	200.00	0.0303	1.00	CARBON	8/24/2021 10:44 PM	0.000	0.091	0.091	bl,C1u,C2u	779	118 482	109	1.0000	0.9492



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Soli TOC Cube, Carbon
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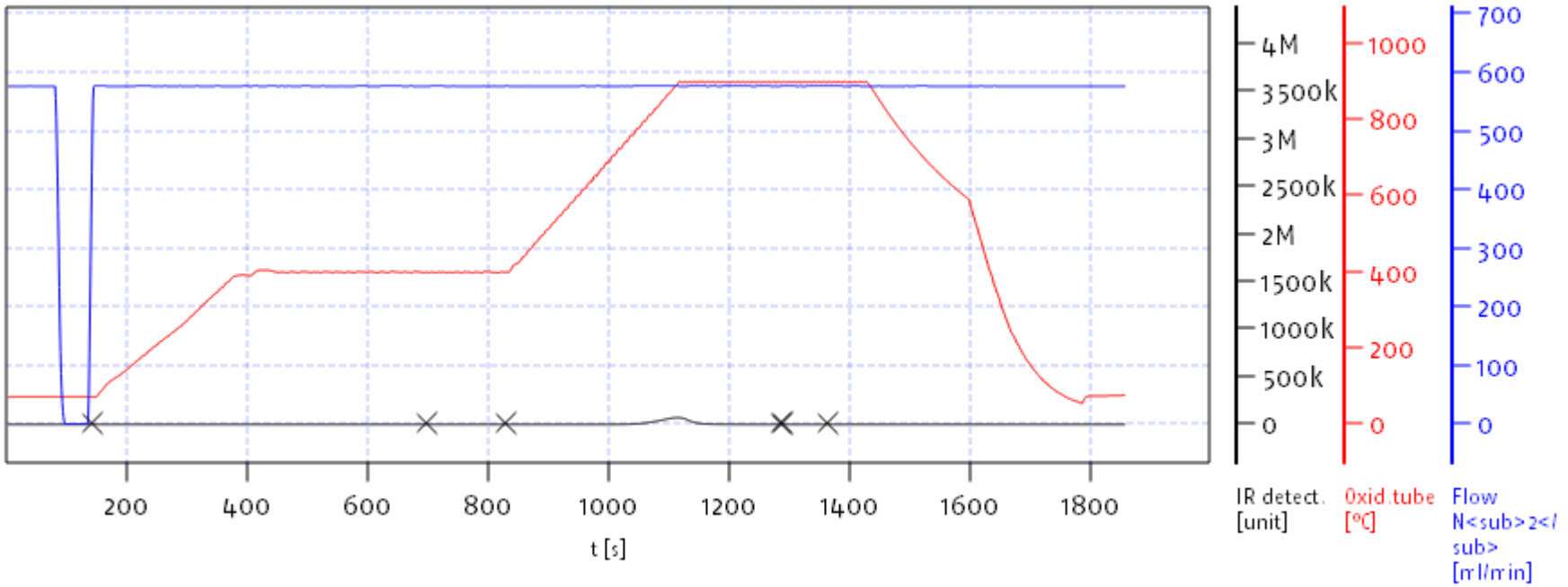
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	19	SEQ-CAL9	200.00	0.0396	1.00	CARBON	8/24/2021 11:16 PM	0.000	0.120	0.120	bl,C1u,C2u	848	163 267	93	1.0000	0.9178



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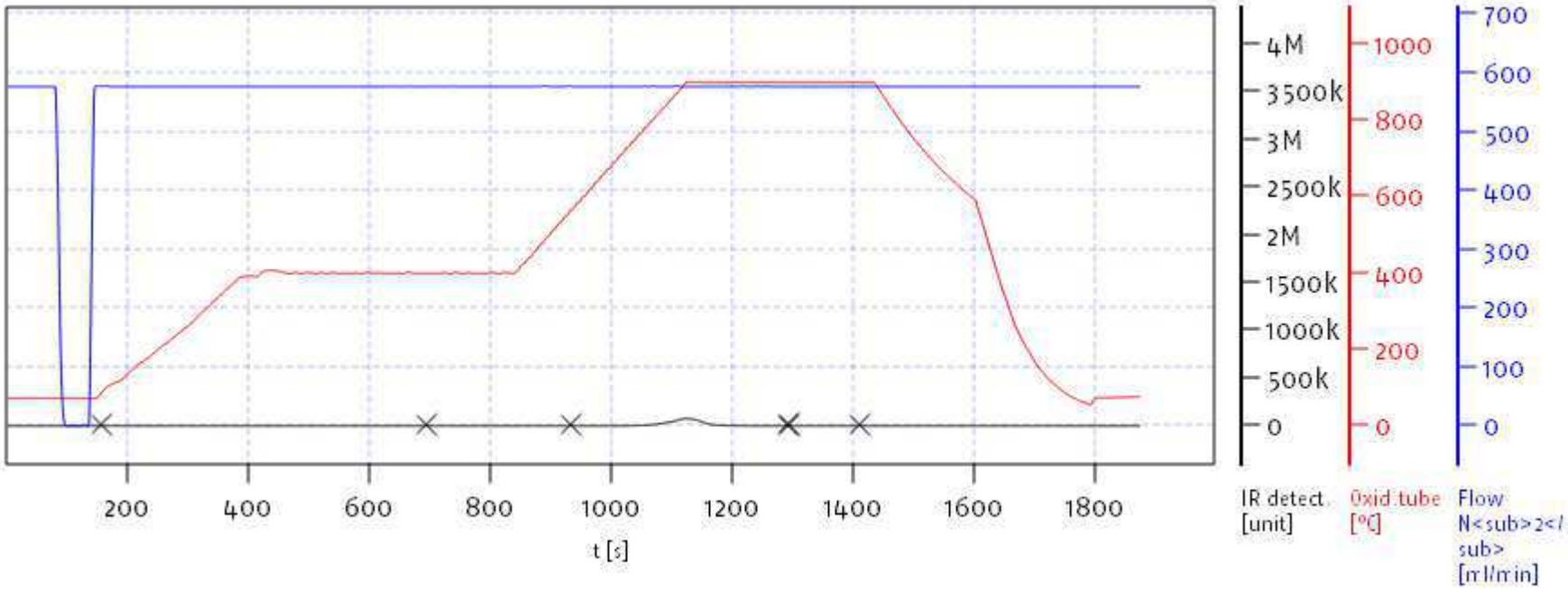
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	20	SEQ-CALA	200.00	0.0498	1.00	CARBON	8/24/2021 11:48 PM	0.000	0.151	0.151	bl,C1u,C2u	1 818	184 410	146	1.0000	1.0237



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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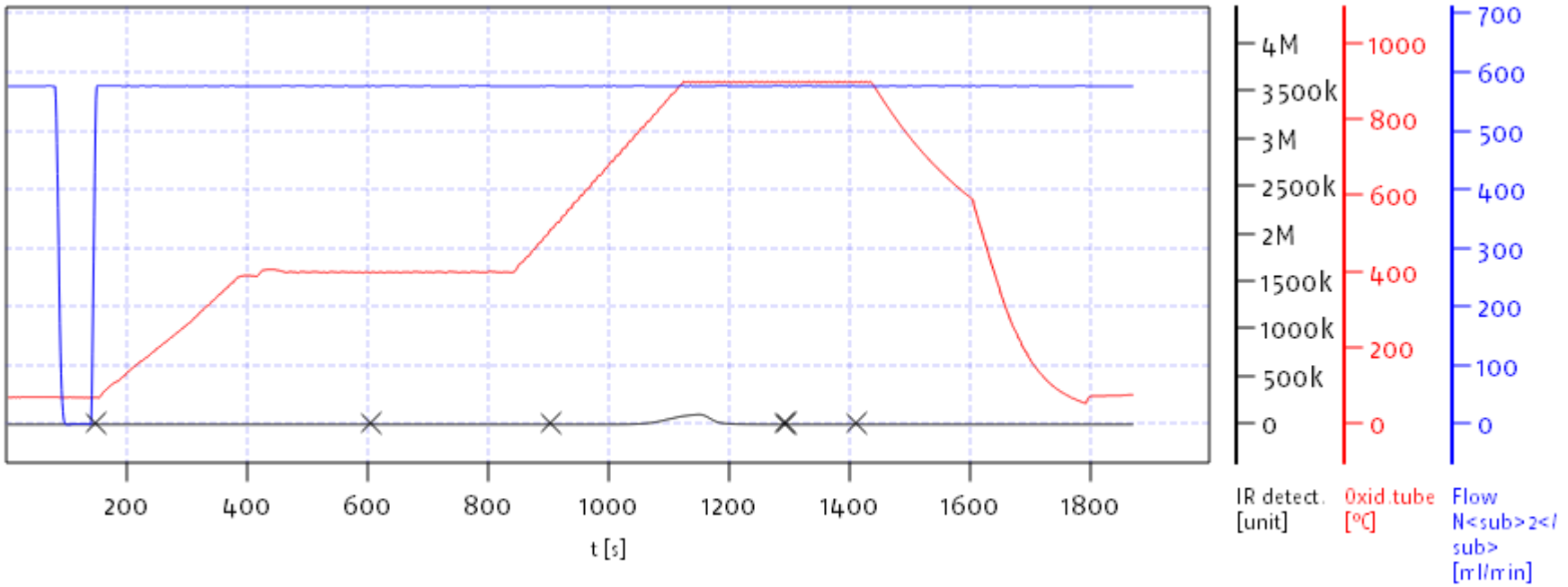
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	21	SEQ-CALB	200.00	0.0042	1.00	CARBON	8/25/2021 12:19 AM	0.000	0.258	0.258	bl,C1u,C2u	972	305 136	284	1.0000	1.0636



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Analyst: BF

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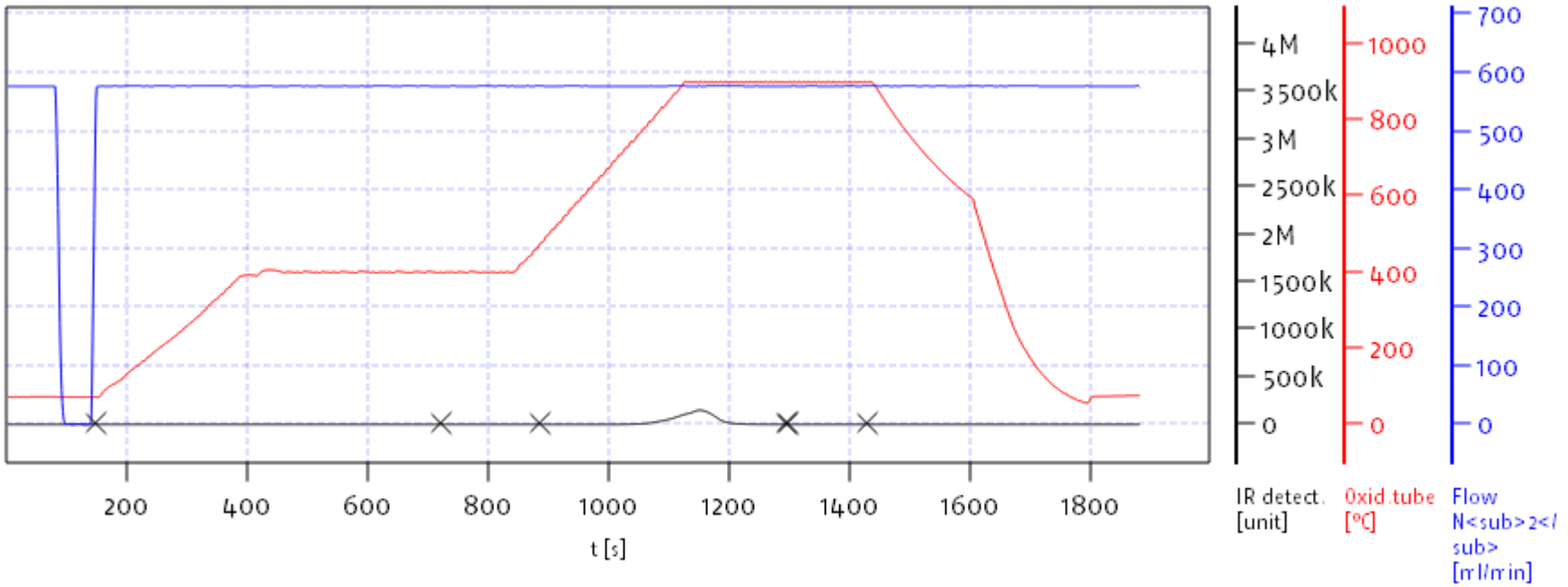
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	22	SEQ-CALC	200.00	0.0056	1.00	CARBON	8/25/2021 12:51 AM	0.000	0.324	0.324	bl,C1u,C2u	925	413 926	393	1.0000	0.9869



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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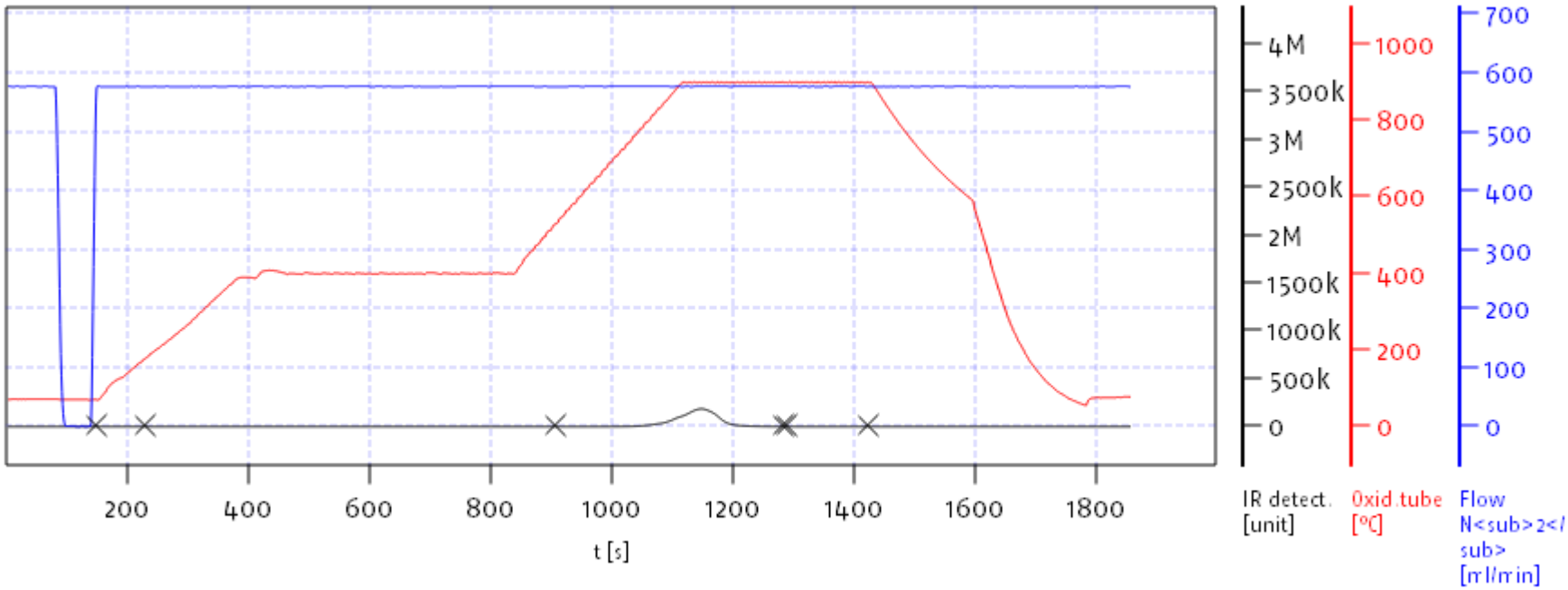
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	23	SEQ-CALD	200.00	0.0069	1.00	CARBON	8/25/2021 1:22 AM	0.000	0.444	0.444	bl,C1u,C2u	172	525 080	677	1.0000	1.0675



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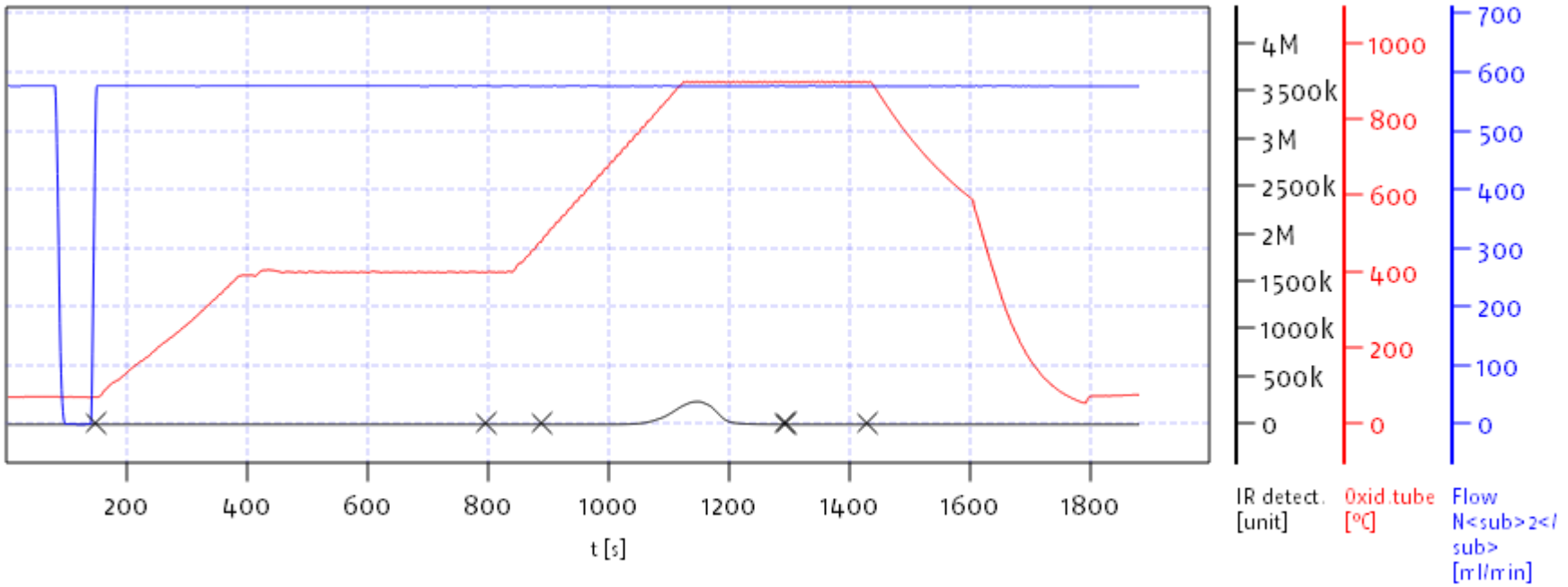
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	24	SEQ-CALE	200.00	0.0097	1.00	CARBON	8/25/2021 1:54 AM	0.000	0.600	0.600	bl,C1u,C2u	989	743 966	687	1.0000	1.0196



Name:

Access: soliTOC superuser

Date: Wed Aug 25 11:48:01 2021

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

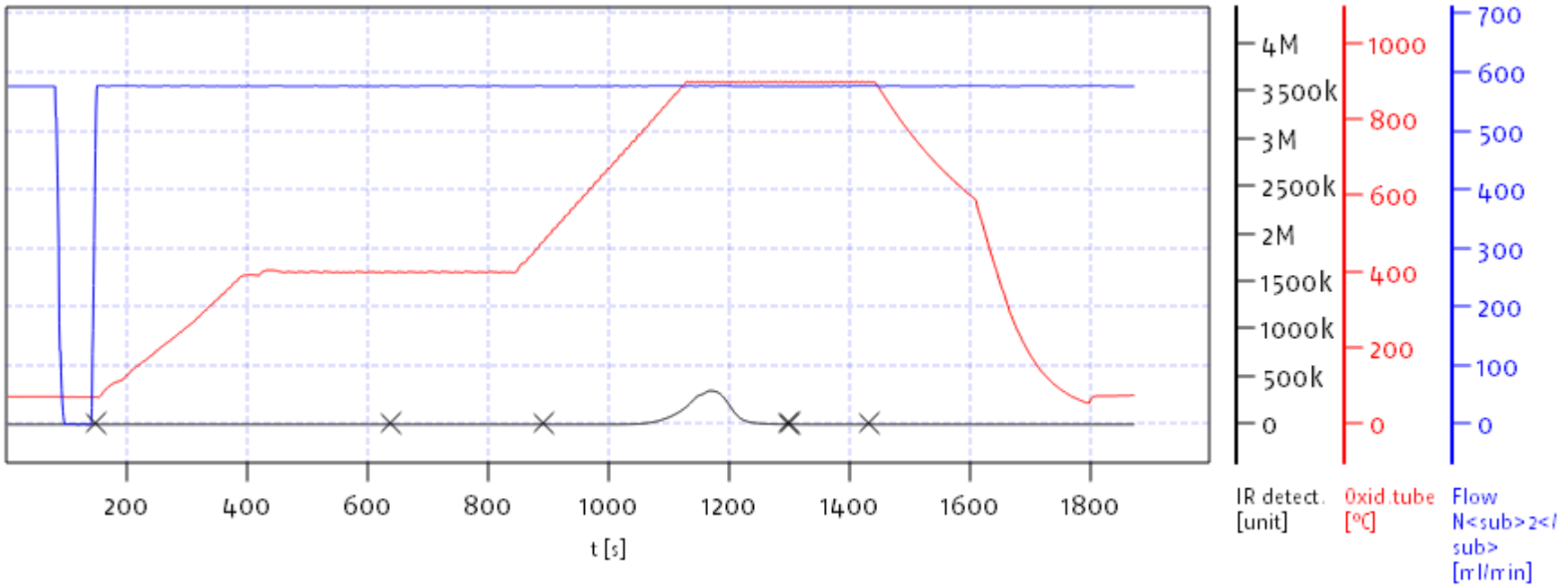
elementar
EXCELLENCE IN ELEMENTS

Document: TOC Calibration EH00065 082421BFb from: 8/25/2021 11:47 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	25	SEQ-CALF	200.00	0.0147	1.00	CARBON	8/25/2021 2:26 AM	0.000	0.906	0.906	bl,C1u,C2u	925	1 115 840	1 898	1.0000	1.0277



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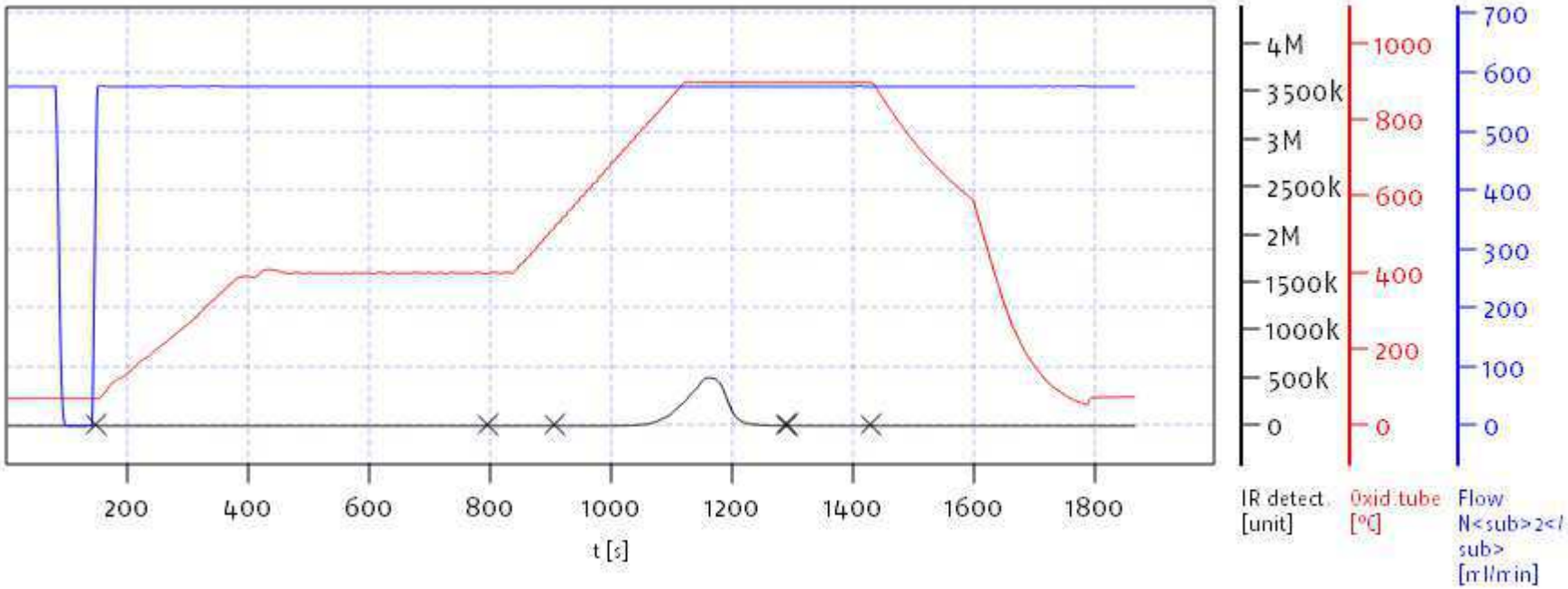
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	26	SEQ-CALG	200.00	0.0199	1.00	CARBON	8/25/2021 2:58 AM	0.000	1.206	1.206	bl,C1u,C2u	1 253	1 509 240	2 258	1.0000	1.0121



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Analyst: BF

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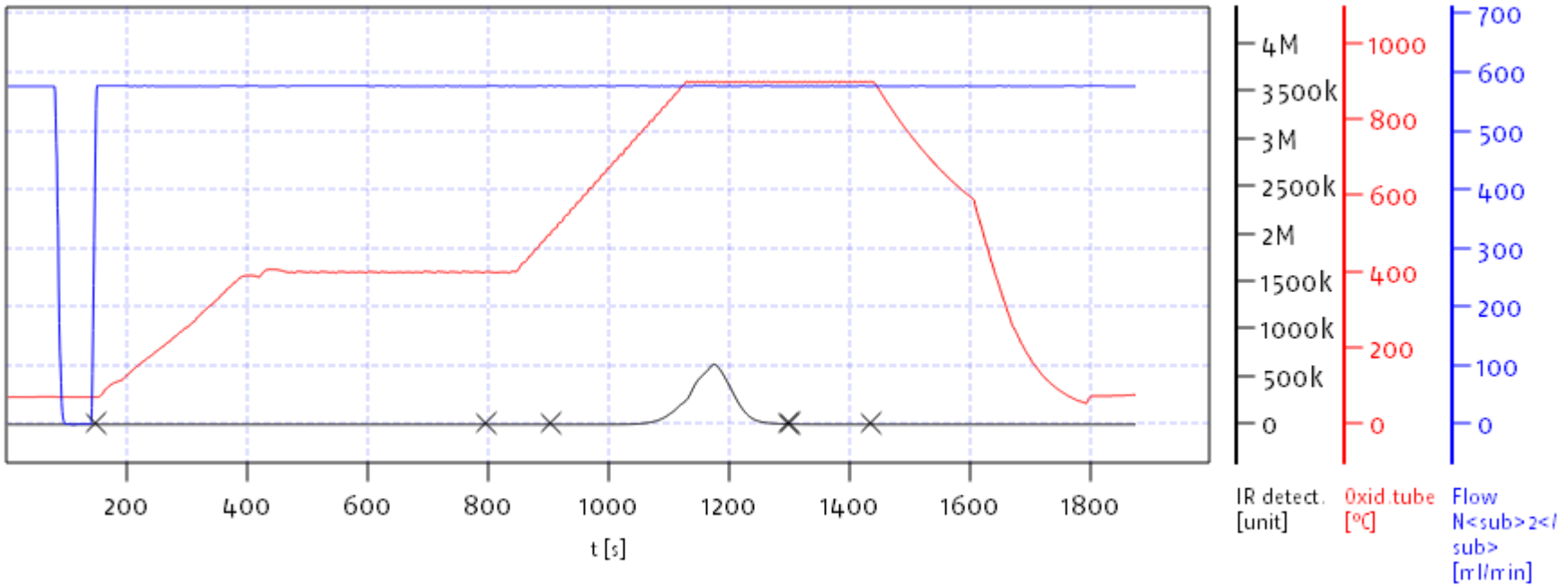
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	27	SEQ-CALH	200.00	0.0253	1.00	CARBON	8/25/2021 3:29 AM	0.000	1.524	1.524	bl,C1u,C2u	1 233	1 930 390	4 311	1.0000	1.0003



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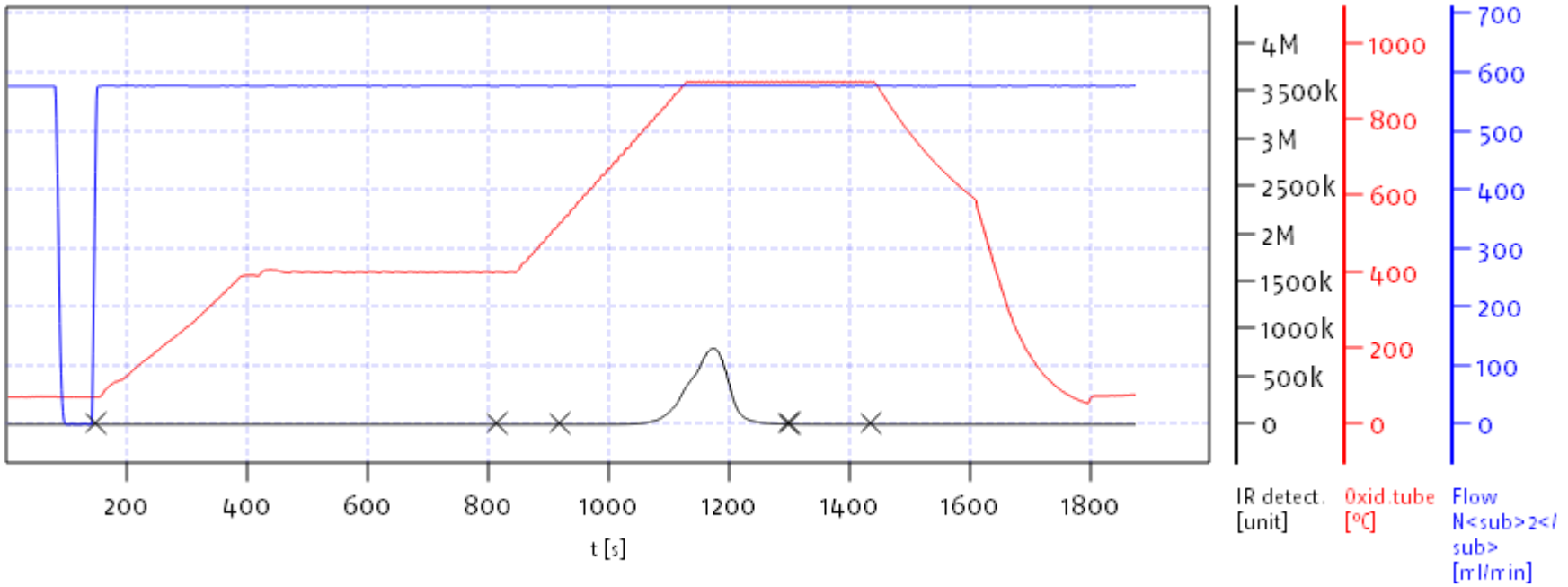
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	28	SEQ-CALI	200.00	0.0302	1.00	CARBON	8/25/2021 4:01 AM	0.000	1.800	1.800	bl,C1u,C2u	1 600	2 286 540	3 907	1.0000	0.9976



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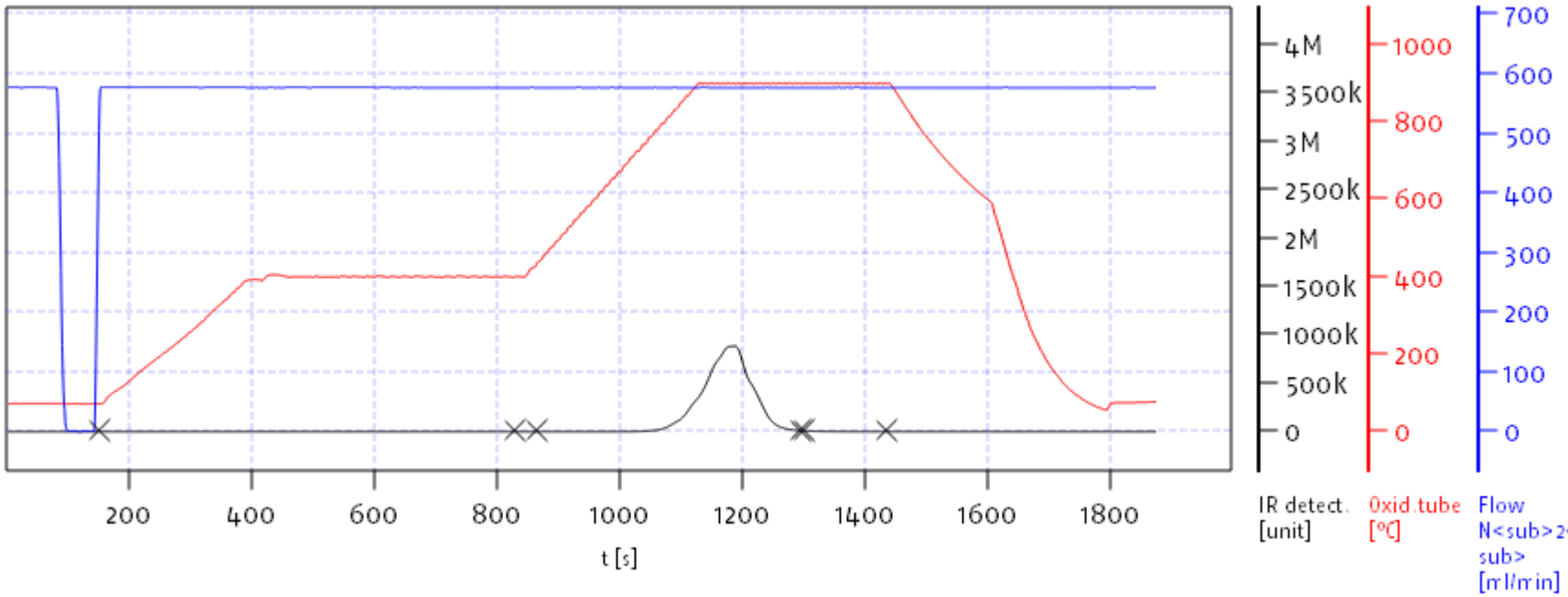
Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	29	SEQ-CALJ	200.00	0.0400	1.00	CARBON	8/25/2021 4:33 AM	0.000	2.400	2.400	bl,C1u	1 589	**3 013 270**	**9 826**	1.0000	1.0096



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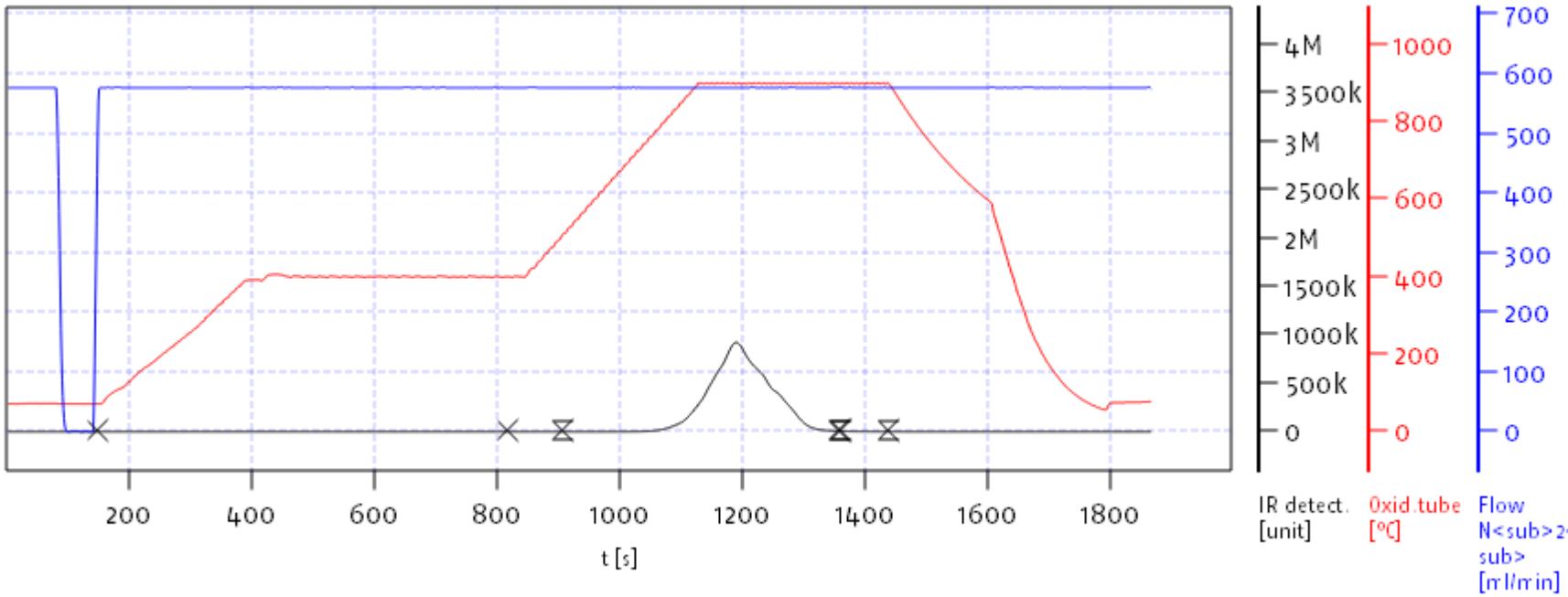
Balance: BAL3
Analyst: BF

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	30	SEQ-CALK	200.00	0.0498	1.00	CARBON	8/25/2021 11:41 AM	0.000	3.012	3.012	bl,C1u	2 117	**3 411 713**	**0**	1.0000	1.0310



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Analyst: BF

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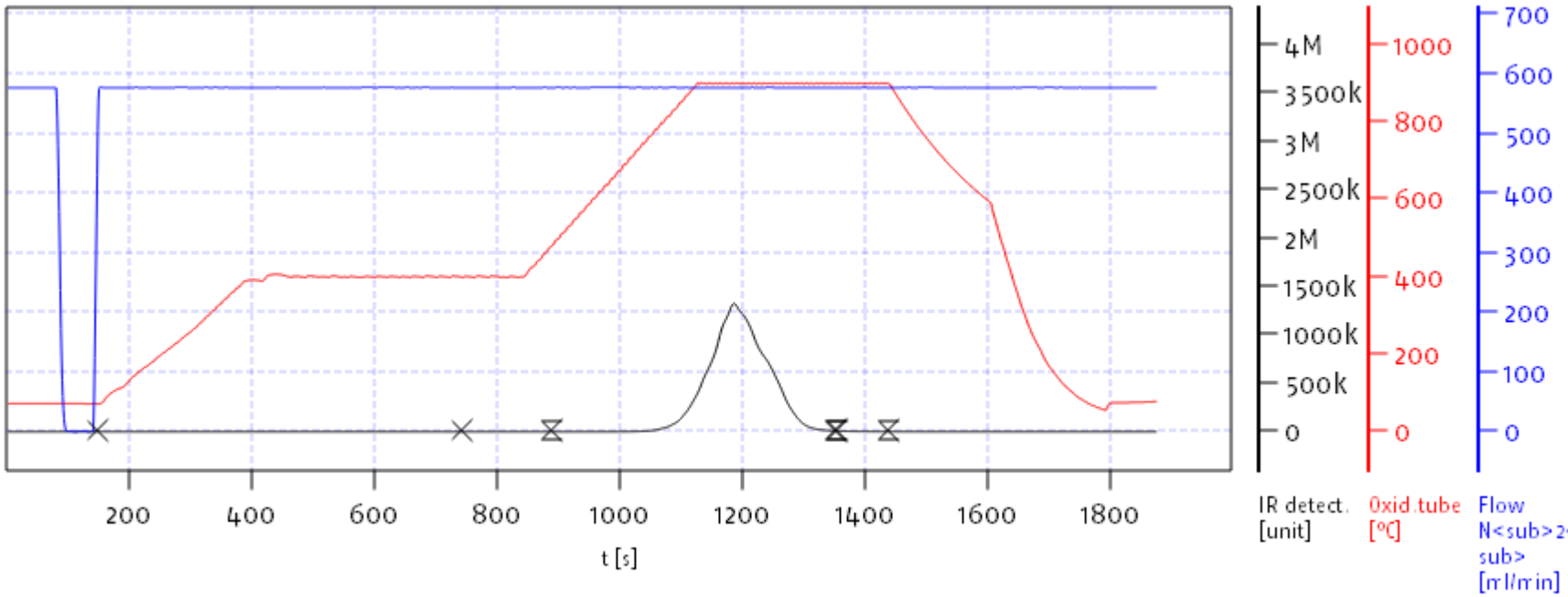
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	31	SEQ-CALL	200.00	0.0699	1.00	CARBON	8/25/2021 11:42 AM	0.000	4.206	4.206	bl,C1u	1 285	**4 920 073**	**0**	1.0000	1.0206



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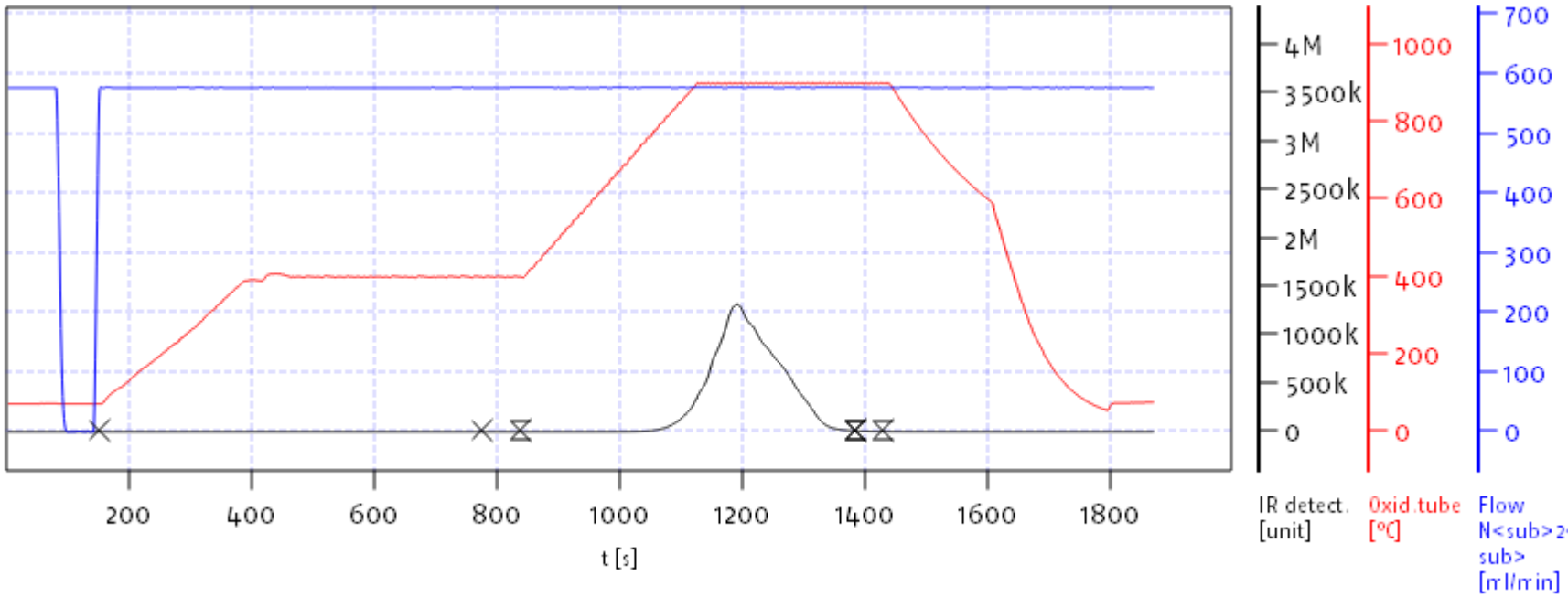
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	32	SEQ-CALM	200.00	0.0803	1.00	CARBON	8/25/2021 11:43 AM	0.000	4.812	4.812	bl,C1u	1 537	**5 655 573**	**0**	1.0000	1.0683



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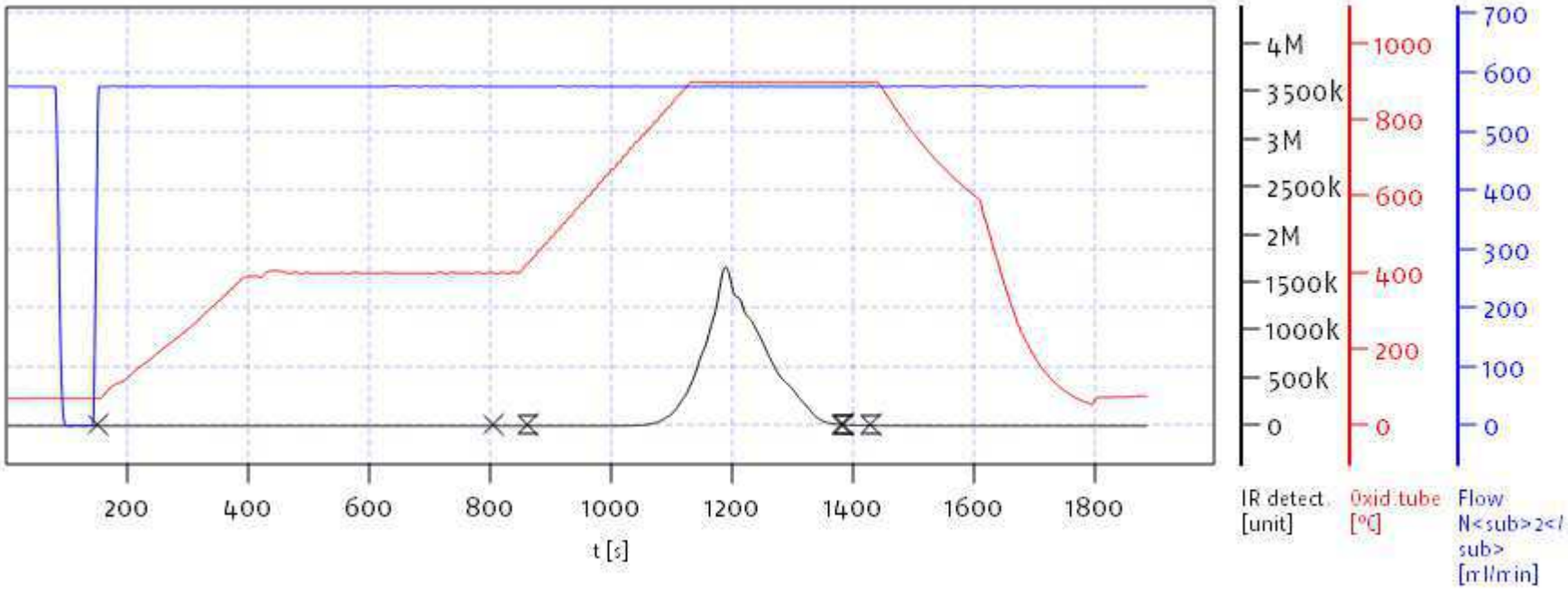
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	33	SEQ-CALN	200.00	0.0902	1.00	CARBON	8/25/2021 11:45 AM	0.000	5.406	5.406	bl,C1u	1 694	**6 449 031**	**0**	1.0000	1.0610



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Balance: BAL3
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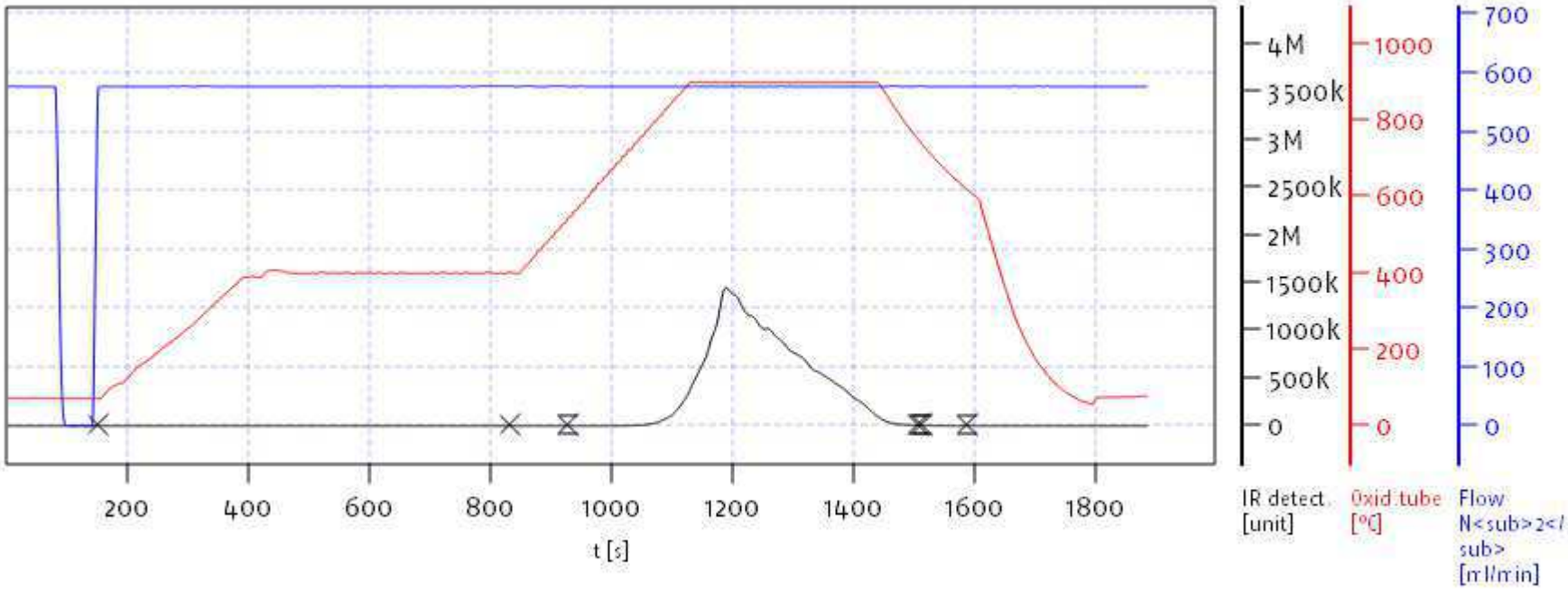
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	34	SEQ-CALO	200.00	0.1204	1.00	CARBON	8/25/2021 11:46 AM	0.000	7.218	7.218	bl,C1u,C3o	1 658	8 593 324	0	1.0000	1.3657



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Soli TOC Cube, Carbon
Balance: BAL3
Analyst: BF

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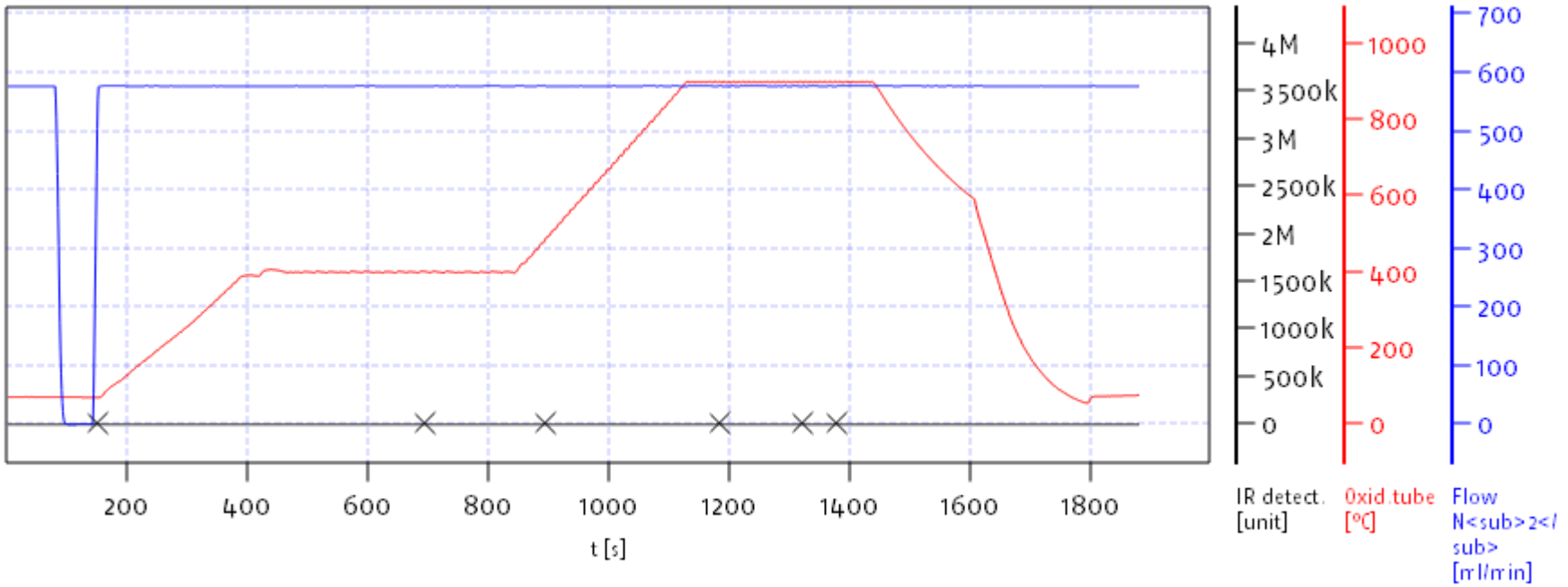
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	35	BLANK	1.00		1.00	CARBON	8/25/2021 7:43 AM	0.000	0.000	0.000	bl	708	0	0	1.0000	1.0293



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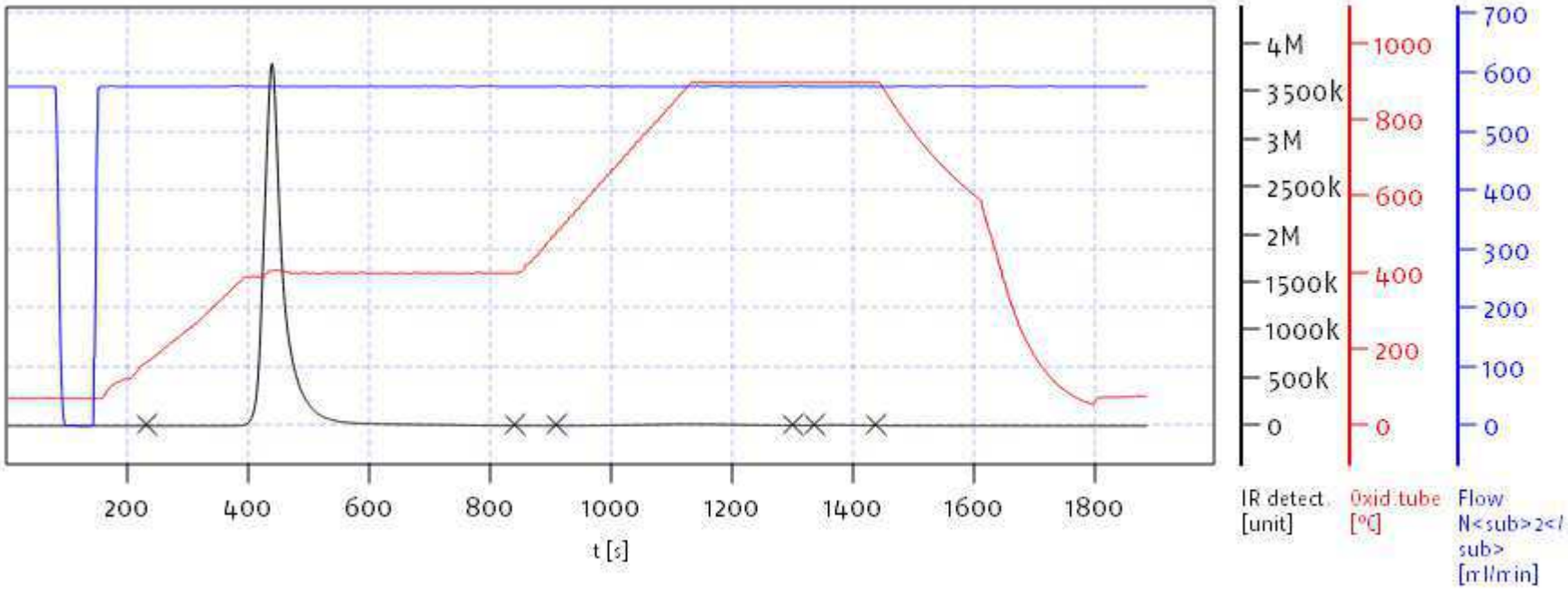
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	36	Dfactor	20.30		1.00	CARBON	8/25/2021 8:15 AM	44.446	0.000	44.446	bl	5 319 150	136 410	24 452	1.0755	1.0000



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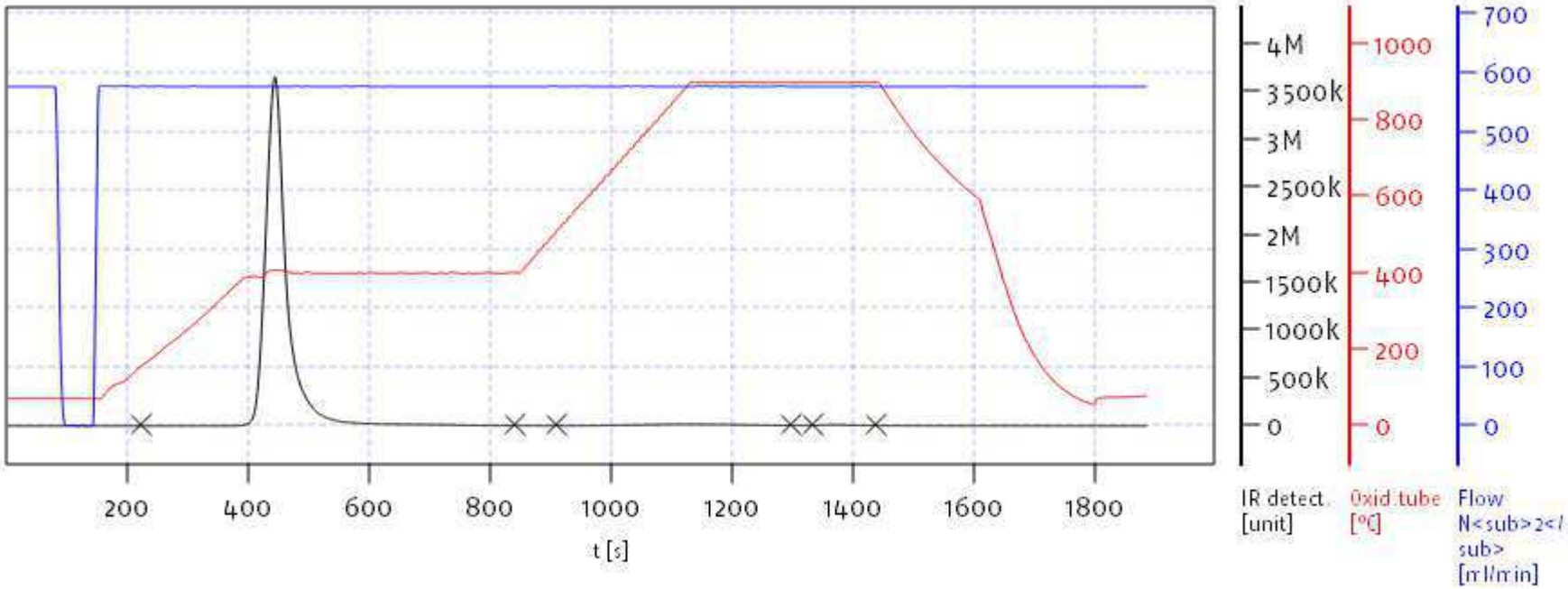
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	37	Dfactor	21.00		1.00	CARBON	8/25/2021 8:47 AM	44.446	0.000	44.446	bl	5 524 800	134 598	27 280	1.0712	1.0000



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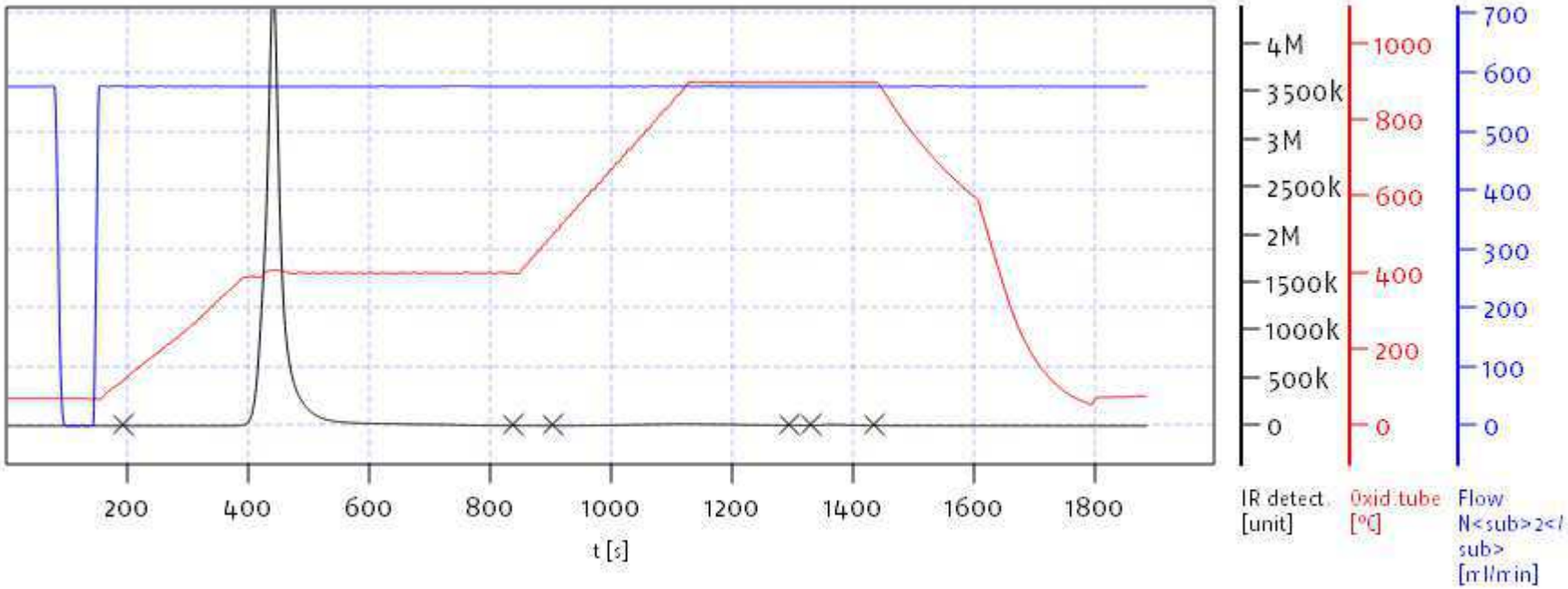
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	38	SEQ-ICV1	20.50		1.00	CARBON	8/25/2021 9:19 AM	47.154	1.091	48.245	bl	5 328 380	151 538	28 760	1.0733	1.0293



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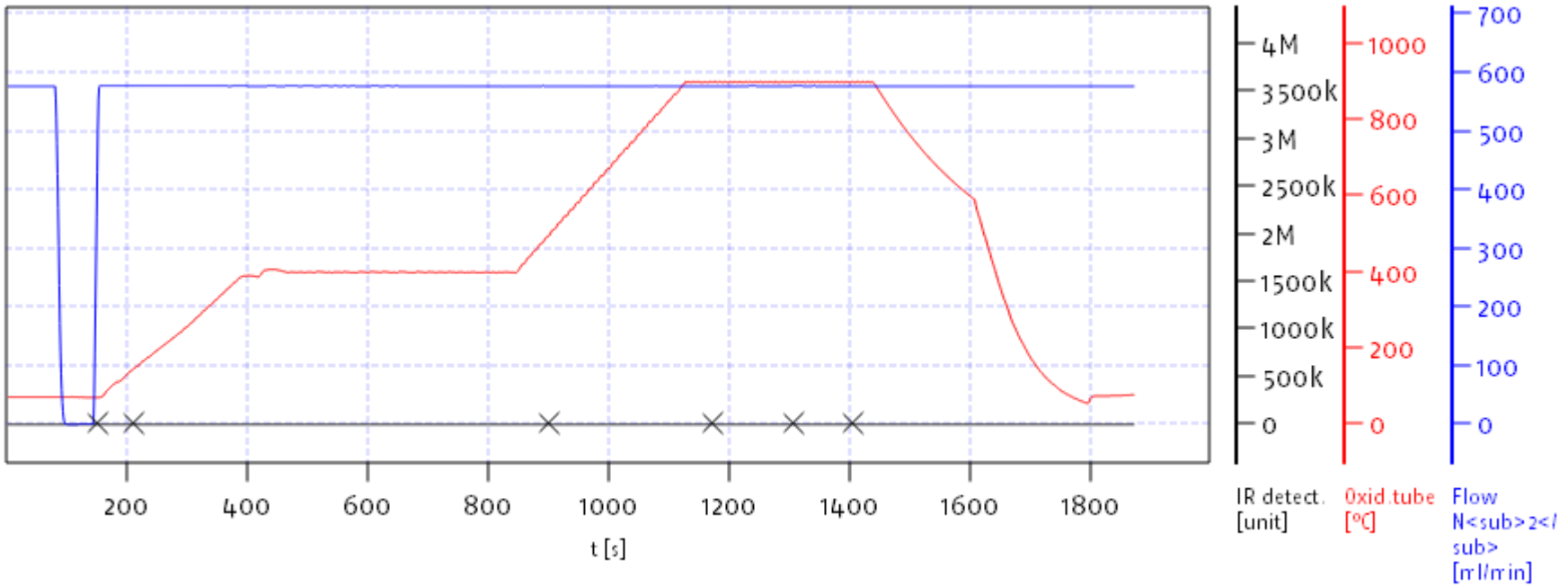
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	39	SEQ-ICB1	599.20		1.00	CARBON	8/25/2021 9:51 AM	0.000	0.000	0.000	bl,C1u,C3u,C2u	172	1 307	338	1.0733	1.0293



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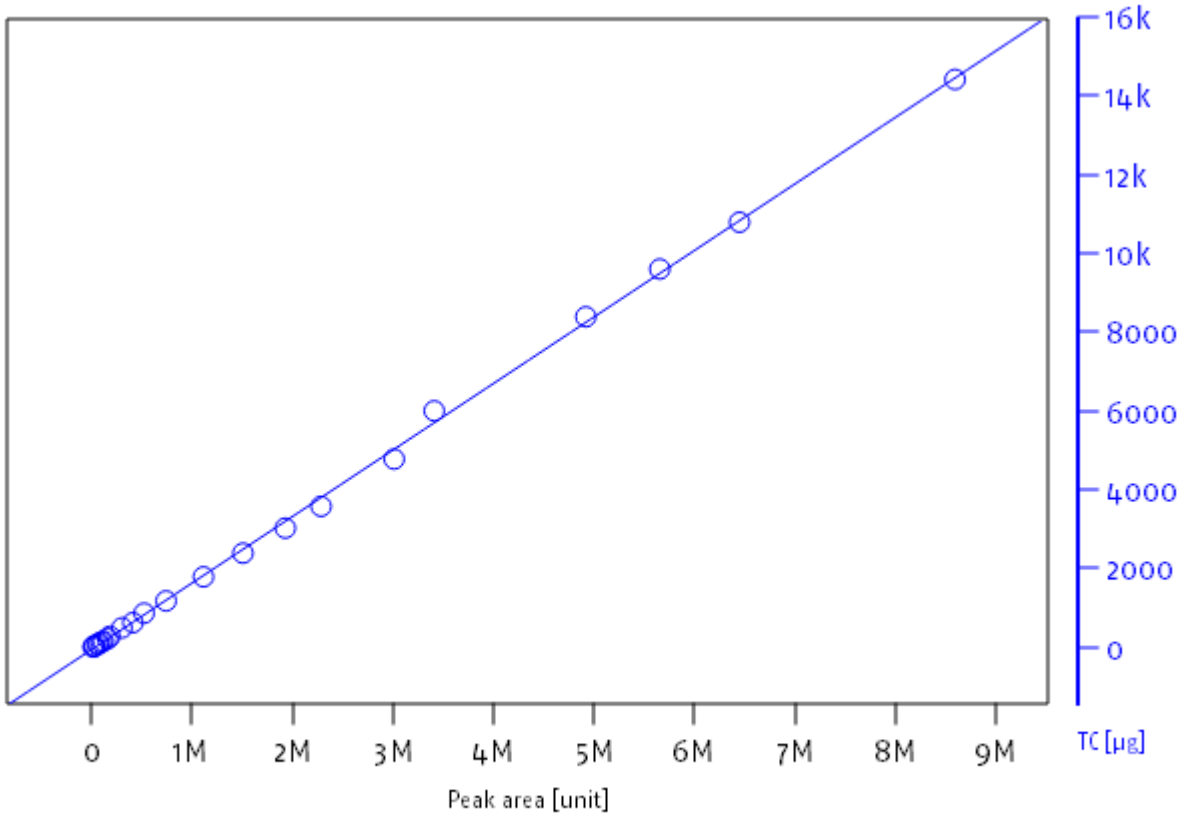
Calibration parameters TC, Whole range

a	-1.970923e-02
b	+1.688862e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.999218
r_old	0.999218
Proc.-SD	115.145985 µg

Calibration graph TC, Whole range



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Serial No: 0300.181017
Mode CCC

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Sequence: SJH0323
Date Analyzed: 08/25/21 09:51

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SJH0323-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Sequence: SJH0331
Date Analyzed: 08/25/21 16:40

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SJH0331-ICB1	Total Organic Carbon	0.003	0.02	0.02	%	
SJH0331-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB5	Total Organic Carbon	0.001	0.02	0.02	%	
SJH0331-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCB8	Total Organic Carbon	0.001	0.02	0.02	%	
SJH0331-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBC	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBD	Total Organic Carbon	0.004	0.02	0.02	%	
SJH0331-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBF	Total Organic Carbon	0.004	0.02	0.02	%	
SJH0331-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0331-CCBH	Total Organic Carbon	0.003	0.02	0.02	%	
SJH0331-CCBI	Total Organic Carbon	0.003	0.02	0.02	%	
SJH0331-CCBJ	Total Organic Carbon	0.007	0.02	0.02	%	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Sequence: SJH0417
Date Analyzed: 09/01/21 13:17

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SJH0417-ICB1	Total Organic Carbon	0.005	0.02	0.02	%	
SJH0417-CCB1	Total Organic Carbon	0.01	0.02	0.02	%	
SJH0417-CCB2	Total Organic Carbon	0.004	0.02	0.02	%	
SJH0417-CCB3	Total Organic Carbon	0.007	0.02	0.02	%	
SJH0417-CCB4	Total Organic Carbon	0.007	0.02	0.02	%	
SJH0417-CCB5	Total Organic Carbon	0.007	0.02	0.02	%	
SJH0417-CCB6	Total Organic Carbon	0.005	0.02	0.02	%	
SJH0417-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0417-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0417-CCB9	Total Organic Carbon	0.004	0.02	0.02	%	
SJH0417-CCBA	Total Organic Carbon	0.009	0.02	0.02	%	
SJH0417-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SJH0417-CCBC	Total Organic Carbon	0.002	0.02	0.02	%	
SJH0417-CCBD	Total Organic Carbon	0.008	0.02	0.02	%	
SJH0417-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Control Limt: +/- 10.00%
Sequence: SJH0323

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SJH0323-ICV1	Total Organic Carbon	44.446	47.2	106	%	EPA 9060A m
	Total Carbon	44.446	48.2	109	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	1.09		%	EPA 9060A m
	% Soot	0.0000	0.14		%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Control Limt: +/- 10.00%
Sequence: SJH0331

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SJH0331-ICV1	Total Organic Carbon	44.446	43.9	98.7	%	EPA 9060A m
SJH0331-CCV1	Total Organic Carbon	44.446	43.8	98.4	%	EPA 9060A m
SJH0331-CCV2	Total Organic Carbon	44.446	44.4	100	%	EPA 9060A m
SJH0331-CCV3	Total Organic Carbon	44.446	44.4	100	%	EPA 9060A m
SJH0331-CCV4	Total Organic Carbon	44.446	45.1	101	%	EPA 9060A m
SJH0331-CCV5	Total Organic Carbon	44.446	44.7	100	%	EPA 9060A m
SJH0331-CCV6	Total Organic Carbon	44.446	44.0	99.1	%	EPA 9060A m
SJH0331-CCV7	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SJH0331-CCV8	Total Organic Carbon	44.446	45.6	103	%	EPA 9060A m
SJH0331-CCV9	Total Organic Carbon	44.446	43.2	97.1	%	EPA 9060A m
SJH0331-CCVA	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SJH0331-CCVB	Total Organic Carbon	44.446	44.6	100	%	EPA 9060A m
SJH0331-CCVC	Total Organic Carbon	44.446	44.7	101	%	EPA 9060A m
SJH0331-CCVD	Total Organic Carbon	44.446	45.6	103	%	EPA 9060A m
SJH0331-CCVE	Total Organic Carbon	44.446	43.5	97.9	%	EPA 9060A m
SJH0331-CCVF	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SJH0331-CCVG	Total Organic Carbon	44.446	45.4	102	%	EPA 9060A m
SJH0331-CCVH	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SJH0331-CCVI	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m
SJH0331-CCVJ	Total Organic Carbon	44.446	45.5	102	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Instrument ID: TOC Cube
Calibration: EH00065
Control Limt: +/- 10.00%
Sequence: SJH0417

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SJH0417-ICV1	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SJH0417-CCV1	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SJH0417-CCV2	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SJH0417-CCV3	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SJH0417-CCV4	Total Organic Carbon	44.446	44.1	99.3	%	EPA 9060A m
SJH0417-CCV5	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SJH0417-CCV6	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
SJH0417-CCV7	Total Organic Carbon	44.446	43.5	97.8	%	EPA 9060A m
SJH0417-CCV8	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SJH0417-CCV9	Total Organic Carbon	44.446	44.9	101	%	EPA 9060A m
SJH0417-CCVA	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SJH0417-CCVB	Total Organic Carbon	44.446	44.3	99.6	%	EPA 9060A m
SJH0417-CCVC	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SJH0417-CCVD	Total Organic Carbon	44.446	44.6	100	%	EPA 9060A m
SJH0417-CCVE	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Laboratory ID: BJH0674-SRM1
Batch: BJH0674
Initial/Final: 0.0546 g / 0.0546 mL
Preparation: PSEP 1986 (modified)
Analyzed: 08/29/2021 3:43
Standard ID: H003424
Expires: 12/31/2079
Standard Lot#: 1941b
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	2.57	0.02	0.02		85.9	80 - 120

* Values outside of QC limits

Analytical Resources, Incorporated
Analytical Chemists and Consultants

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, Inc. SDG: 21H0263

Client: Anchor QEA, LLC Project: Lower Duwamish AOC4

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
LDW20-IT384 21H0263-01	06/23/20 06:06	08/21/21 09:39	08/26/21 11:42	429	180	08/29/21 11:33			*
Duplicate BJH0674-DUP1	06/23/20 06:06	08/21/21 09:39	08/26/21 11:42	429	180	08/29/21 12:05			*
Duplicate BJH0674-DUP2	06/23/20 06:06	08/21/21 09:39	08/26/21 11:42	429	180	09/04/21 01:08			*
Matrix Spike BJH0674-MS1	06/23/20 06:06	08/21/21 09:39	08/26/21 11:42	429	180	08/29/21 12:36			*

* Indicates hold time exceedance.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

H001822

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: $(C_6H_{10}O_5)n$
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 +60 mesh +200 mesh	Wt % <8% >45%	 <1% 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

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 cm^2
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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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

Robert L. Watters, Jr., Director
Office of Reference Materials

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

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 (^{60}Co), 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

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 NH_2, 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 (C_{18}) 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 or a hexane/acetone mixture,

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] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	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] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	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] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 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[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]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 indicted. 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 $U = ku_c$, 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 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 indicted. 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] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	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 indicted. 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] (µg/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 $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution 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 indicted. 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] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	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 indicted. 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] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	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 $U = ku_c$, 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 $U = ku_c$, 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 indicted. 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 Investigacionies 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
Axys 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

NIST

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	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/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (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: X Inhalation X 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 X 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.

Bill to: 68455	Ship to: 68456
DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205	DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

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Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

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.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

Picked by	
Packed by	
# of pieces	
Weight	

1700101

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW20-IT384

Laboratory:	Analytical Resources, Inc.				
Client:	Anchor QEA, LLC				
Project:	Lower Duwamish AOC4				
Matrix:	Sediment	Laboratory ID:	21H0263-01 B	SDG:	21H0263
Sampled:	06/23/20 06:06	Prepared:	08/26/21 09:52	File ID:	
% Solids:	76.84	Preparation:	No Prep Wet Chem	Analyzed:	08/26/21 09:54
Batch:	BJH0665	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	76.84	1	0.04	0.04	H

Analytical Resources, Incorporated
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory:	Analytical Resources, Inc.			SDG:	21H0263
Client:	Anchor QEA, LLC			Project:	Lower Duwamish AOC4
Batch:	BJH0665	Batch Matrix:	Solid	Preparation:	No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW20-IT384	21H0263-01		08/26/21 09:52	
Blank	BJH0665-BLK1		08/26/21 09:52	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BJH0665
Date:	8/26/2021 9:54
Analyst:	DOE

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time				**Oven Temps, °C**	
record times as mm/dd/yy hh:mm			TS (%) calculated as:	Start Temp	104
date/time in oven:	8/26/2021 12:10		Final dry wt (g) = (Dry Wt - Tare Wt)	Dry Cycle 1	104
date/time out:	8/27/2021 9:05		TS = (Final Dry Wt)/ (grams Sample-Tare)	Dry Cycle 2	
elapsed hrs =	20.9	OK		Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places											
	Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
	Date & Time:	8/26/21 11:45	8/26/21 11:50	8/27/21 9:30							
Cal Wt (g):	10.0000	9.9999	9.9999	9.9999							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	TVS (%)	Notes	Fixed (%)
BJH0665-BLK1	1	0.7994	0.0000	0.7993			-0.0001	0.01%									
21H0263-01	2	0.7911	5.2481	4.2158			3.4247	76.84%									
21H0301-01	3	0.7858	5.1396	1.7748			0.9890	22.72%									
21H0301-02	4	0.7960	5.1056	2.0624			1.2664	29.39%									
21H0301-03	5	0.8099	4.6030	2.0000			1.1901	31.38%									
21H0301-04	6	0.7909	6.4663	2.9199			2.1290	37.51%									
21H0301-08	7	0.8066	4.7016	1.4351			0.6285	16.14%									
21H0301-09	8	0.8084	6.2723	2.1798			1.3714	25.10%									
21H0301-10	9	0.8002	5.4671	1.9878			1.1876	25.45%									
21H0301-11	10	0.8017	5.4658	2.0423			1.2406	26.60%									
21H0301-12	11	0.8076	4.6319	1.6698			0.8622	22.55%									
BJH0665-DUP1	12	0.7975	4.5781	1.6360			0.8385	22.18%	RPD=1.6								
BJH0665-DUP2	13	0.7969	4.5876	1.6511			0.8542	22.53%	RSD=0.9								
21H0301-17	14	0.7997	4.1037	1.7233			0.9236	27.95%									

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Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Batch: BJH0665
Laboratory ID: BJH0665-BLK1
Prepared: 08/26/21 09:52
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 08/26/21 09:54
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

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HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, Inc. SDG: 21H0263

Client: Anchor QEA, LLC Project: Lower Duwamish AOC4

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
LDW20-IT384 21H0263-01	06/23/20 06:06	08/21/21 09:39	08/26/21 09:52	429	28	08/26/21 09:54	429	28	*

* Indicates hold time exceedance.

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Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, Inc.
SDG: 21H0263
Client: Anchor QEA, LLC
Project: Lower Duwamish AOC4
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%