



Analytical Resources, Incorporated
Analytical Chemists and Consultants

13 November 2020

Delaney Peterson
Anchor QEA, LLC
1201 3rd Ave, Suite 2600
Seattle, WA 98101

RE: GascoSiltronic

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)
20J0121

Associated SDG ID(s)
N/A

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

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

Analytical Resources, Inc.

Amanda Volgardsen Johnson, Project Manager

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.



20201021

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ARI-20201006-165822
Sample Custodian: dp, ns, sl
Lab: Analytical Resources Inc.

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-055SG-201006	N	SE	10/06/2020	15:56	1	<input type="checkbox"/>	PAHs and Alk. PAHs	SW8270ESIM	30	4°C
								TPH	NWTPHDx	30	
								Total solids (ARI)	SM2540G	30	

Comment:							
Relinquished By:		Received By:		Relinquished By:		Received By:	
Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
D. Peterson	R. Kromore	R. Kromore	Jacob Walter				
AQ	ARX	ARX	ARZ				
10.7.20 0735	10/7/20 7:35	10/7/20 14:10	10/08/20 1108				



Cooler Receipt Form

ARI Client: Ancher QEA
 COC No(s): _____ (NA)
 Assigned ARI Job No: 20J0121

Project Name: US Moorings
 Delivered by: Fed-Ex UPS Courier Hand Delivered Other: _____
 Tracking No: 12x4720R0190948584 (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler? YES NO
 Were custody papers included with the cooler? YES NO
 Were custody papers properly filled out (ink, signed, etc.) YES NO
 Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1108 4.3
 If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: DOO 5206

Cooler Accepted by: JS Date: 10/08/2020 Time: 1108

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Samples Logged by: JS Date: 10/08/2020 Time: 1443 Labels checked by: JS

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

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

Additional Notes, Discrepancies, & Resolutions:

By: _____ Date: _____



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Anchor QEA, LLC

1201 3rd Ave, Suite 2600

Seattle, WA 98101

Project: GascoSiltronic

Project Number: [none]

Project Manager: Delaney Peterson

Reported:

11/13/2020 08:35

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
20J0121-01	USMPDI-055SG-201006	Solid	10/06/20 15:56	10/08/20 11:08



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

Project: GascoSiltronic
Project Number: [none]
Project Manager: Delaney Peterson

Reported:
13-Nov-2020 08:35

Case Narrative

Sample receipt

Samples as listed on the preceding page were received 08-Oct-2020 11:08 under ARI work order 20J0121. For details regarding sample receipt, please refer to the Cooler Receipt Form.

Alkyl PAH - EPA Method SW8270E-SIM

The sample was extracted and analyzed within the recommended holding times.

The sample was reanalyzed at a dilution due to several "E" flagged compound concentrations exceeding the upper calibration limits. No further corrective action was taken.

Initial and continuing calibrations were within method requirements, with the exception of SIJ0085-SCV1 which is outside of control limits high for Dibenzofuran.

The initial calibration verifications (ICVs) are outside of control limits high for all LCS/LCSD "Q" flagged compounds. Associated detected results have been flagged with "Q" qualifiers. No further corrective action was taken.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blanks were clean at the reporting limits.

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

Diesel/Heavy Oil Range Organics - WA-Ecology Method NW-TPHDx

The sample was extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The surrogate percent recoveries were within control limits.

The method blank was clean at the reporting limits.

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



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

Project: GascoSiltronic
Project Number: [none]
Project Manager: Delaney Peterson

Reported:
13-Nov-2020 08:35

Case Narrative



QUALIFIERS AND NOTES

<u>Qualifier</u>	<u>Definition</u>
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
J	Estimated concentration value detected below the reporting limit.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D1	Surrogate was not detected due to sample extract dilution
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102005.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/20/20 12:35
Batch: BIJ0442 Sequence: SIJ0286 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
493-02-7	trans-Decalin	5	25.0	U	0.1	25.0
493-01-6	cis-Decalin	5	25.0	U	2.4	25.0
91-20-3	Naphthalene	5	185	D	2.2	25.0
90-12-0	1-Methylnaphthalene	5	53.3	D	1.9	25.0
91-57-6	2-Methylnaphthalene	5	90.9	D	2.2	25.0
92-52-4	Biphenyl	5	26.3	D	1.7	25.0
581-42-0	2,6-Dimethylnaphthalene	5	39.6	D	1.9	25.0
208-96-8	Acenaphthylene	5	60.9	D	1.3	25.0
83-32-9	Acenaphthene	5	387	D	2.3	25.0
132-64-9	Dibenzofuran	5	47.1	D	2.1	25.0
2245-38-7	2,3,5-Trimethylnaphthalene	5	32.2	D	2.2	25.0
86-73-7	Fluorene	5	189	D	2.3	25.0
95-15-8	Benzo(b)thiophene	5	14.9	J, D	1.8	25.0
85-01-8	Phenanthrene	5	2110	D	4.7	25.0
120-12-7	Anthracene	5	571	D	0.2	25.0
86-74-8	Carbazole	5	254	D	3.6	25.0
832-69-9	1-Methylphenanthrene	5	202	D	2.5	25.0
206-44-0	Fluoranthene	5	3980	D, E	6.8	25.0
132-65-0	Dibenzothiophene	5	132	D	3.3	25.0
129-00-0	Pyrene	5	4300	D, E	5.1	25.0
56-55-3	Benzo(a)anthracene	5	1790	Q, D	7.1	25.0
218-01-9	Chrysene	5	2040	D	3.5	25.0
205-99-2	Benzo(b)fluoranthene	5	1550	D	4.0	25.0
205-82-3	Benzo(j)fluoranthene	5	909	D	3.4	25.0
207-08-9	Benzo(k)fluoranthene	5	890	D	4.0	25.0
	Benzofluoranthenes, Total	5	3440	D	15.0	49.9
197-97-2	Benzo(e)pyrene	5	1500	D	3.1	25.0
50-32-8	Benzo(a)pyrene	5	2610	D, E	4.9	25.0
193-39-5	Indeno(1,2,3-cd)pyrene	5	1550	D	1.9	25.0
53-70-3	Dibenzo(a,h)anthracene	5	351	D	3.4	25.0



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102005.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/20/20 12:35
Batch: BIJ0442 Sequence: SIJ0286 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
191-24-2	Benzo(g,h,i)perylene	5	2010	D	2.6	25.0
1985-5-0	Perylene	5	643	D	2.2	25.0
239-35-0	Benzo(b)naphtho(2,1-d)thiophene	5	260	D	25.0	25.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Naphthalene-d8	149.84	71.0	47.4	30 - 160	Q
Acenaphthene-d10	149.84	85.9	57.3	30 - 160	
Phenanthrene-d10	149.84	121	80.5	30 - 160	
Chrysene-d12	149.84	93.1	62.1	30 - 160	
Perylene-d12	149.84	94.2	62.9	30 - 160	

Data File: \\target\share\chem3\nt14.1\20201020.16\NT1420102005.D

Date : 20-OCT-2020 12:35

Client ID:

Sample Info: 20J0121-01.5

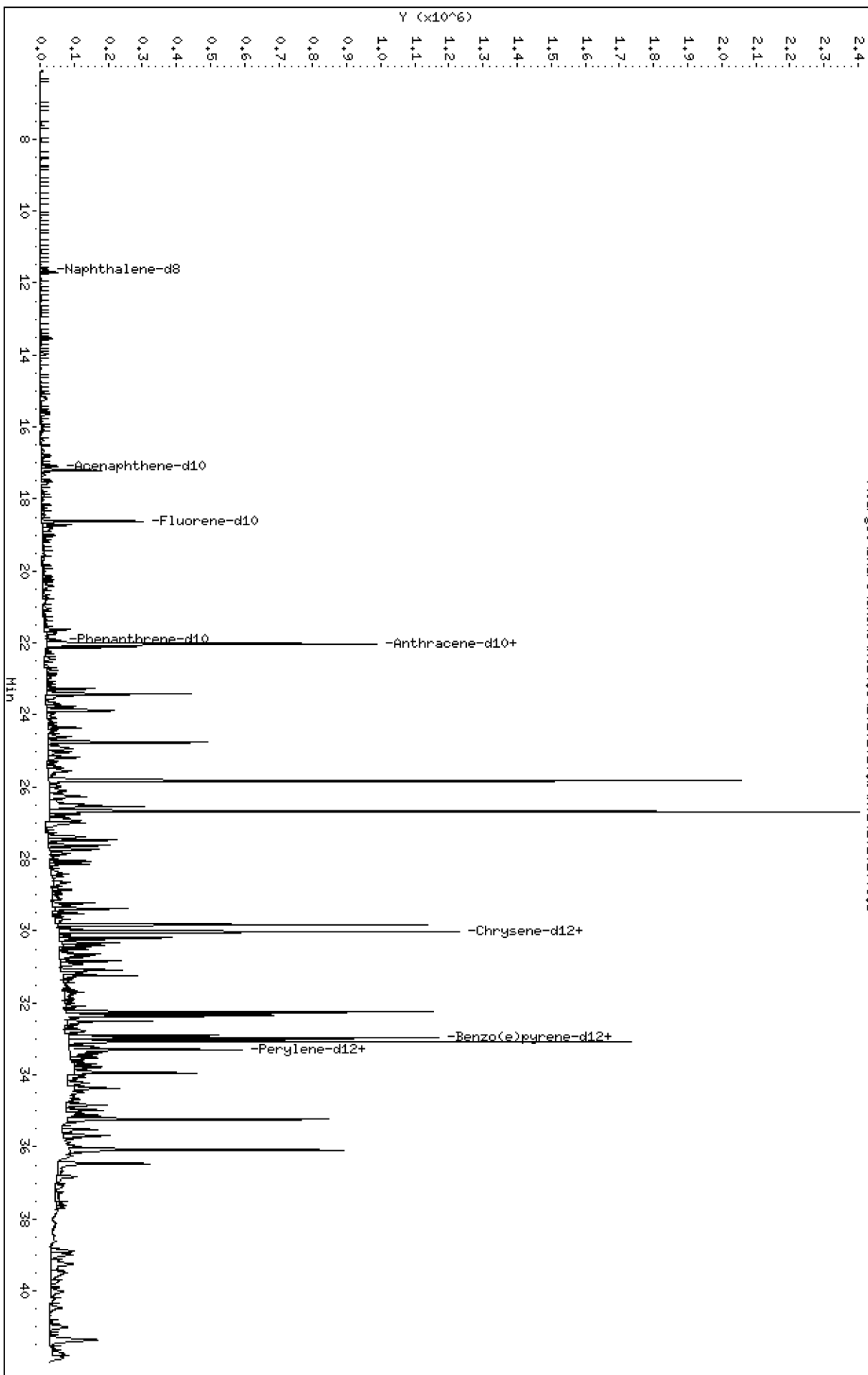
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201020.16\NT1420102005.D



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

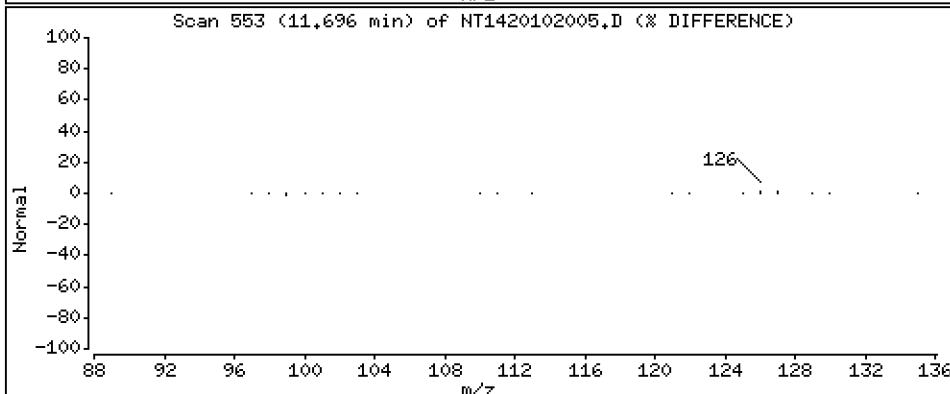
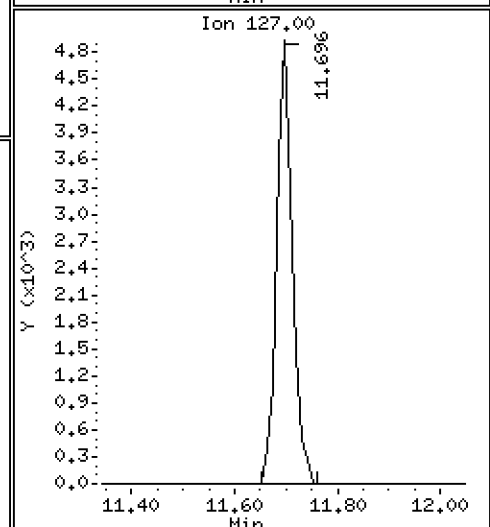
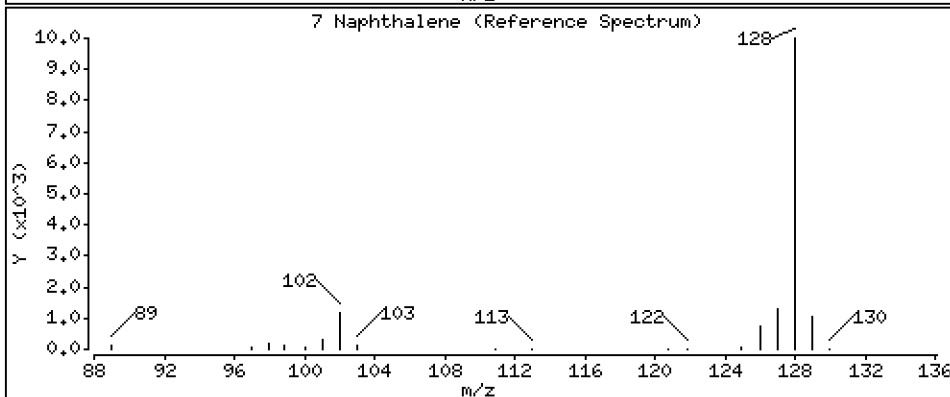
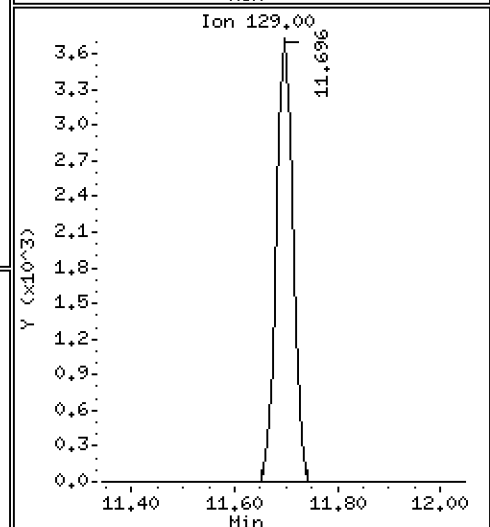
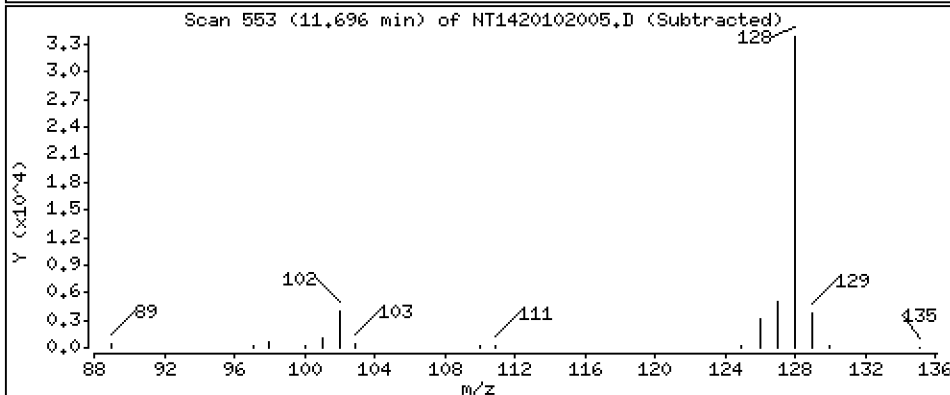
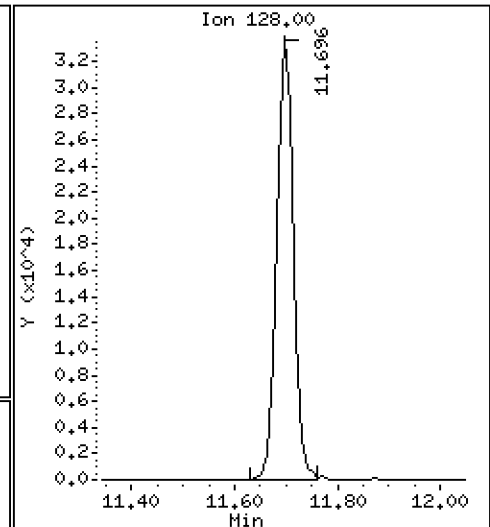
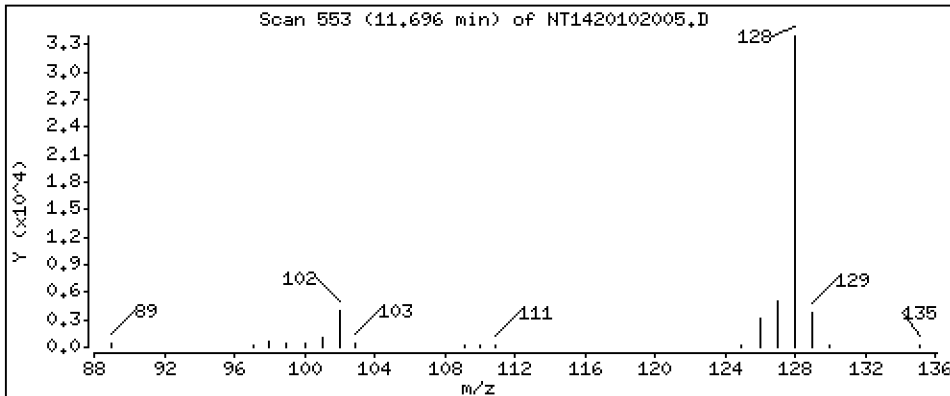
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 3,696 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

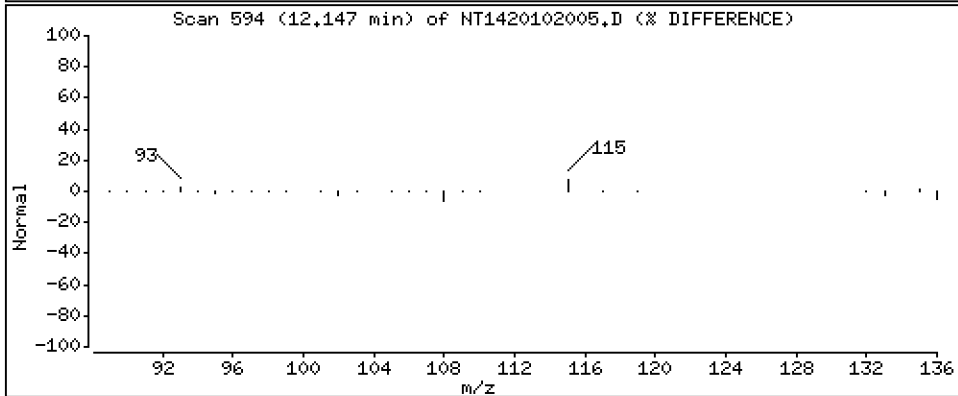
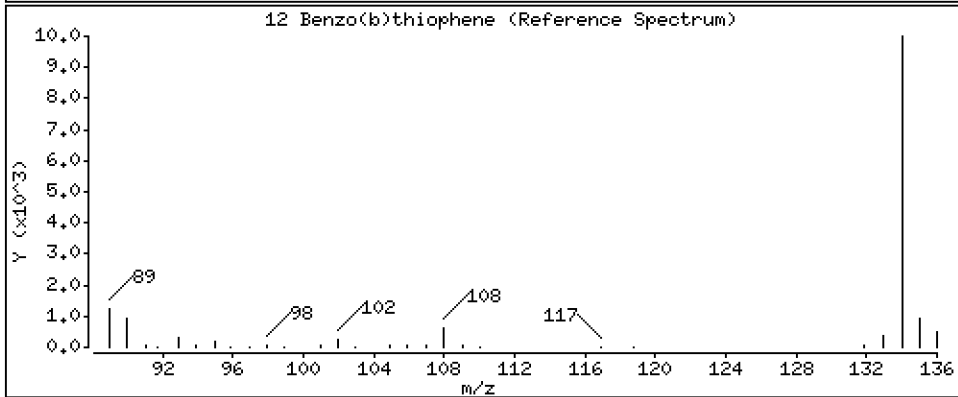
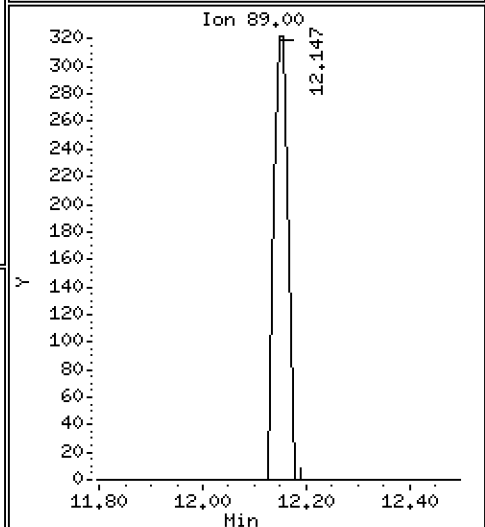
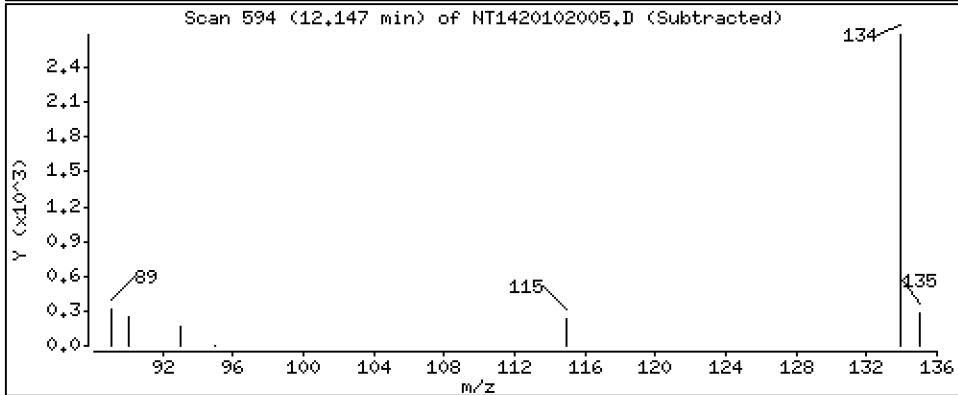
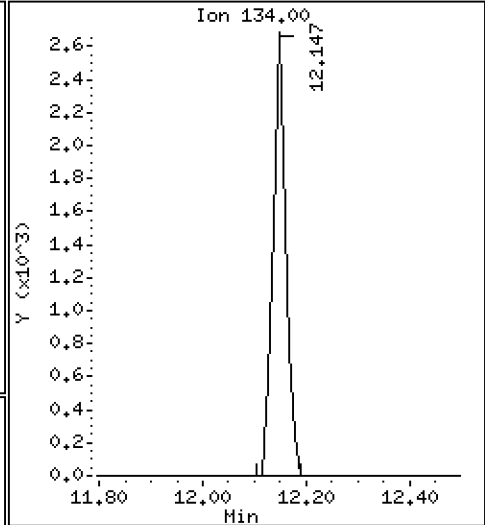
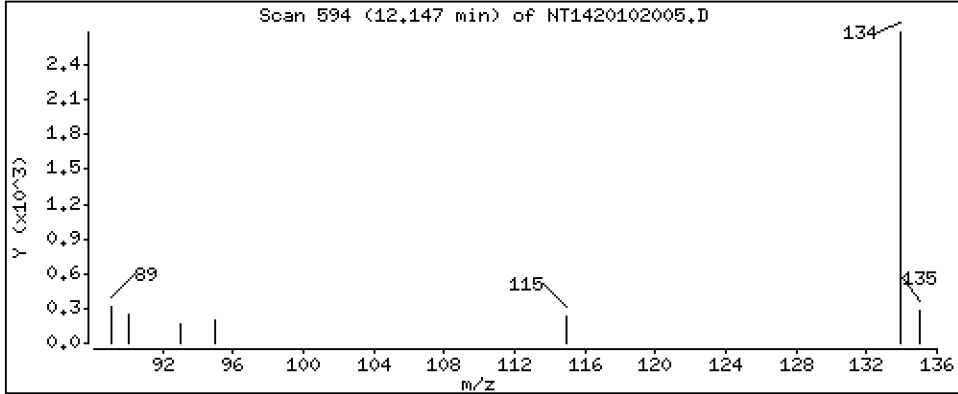
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Benzo(b)thiophene

Concentration: 0,2988 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

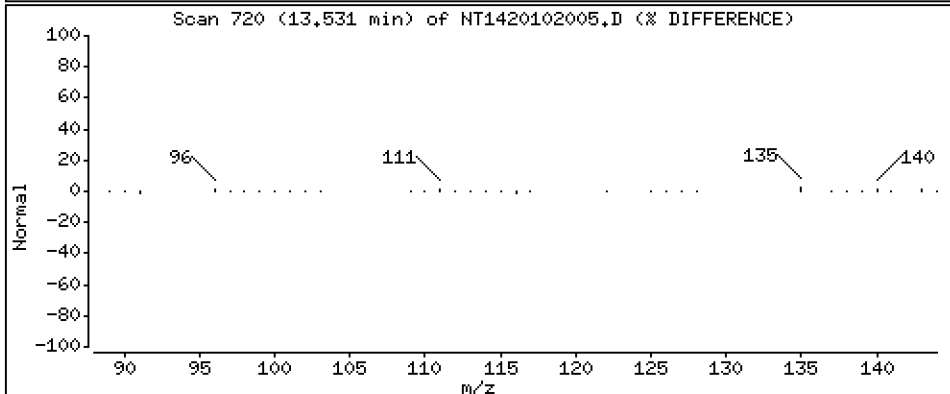
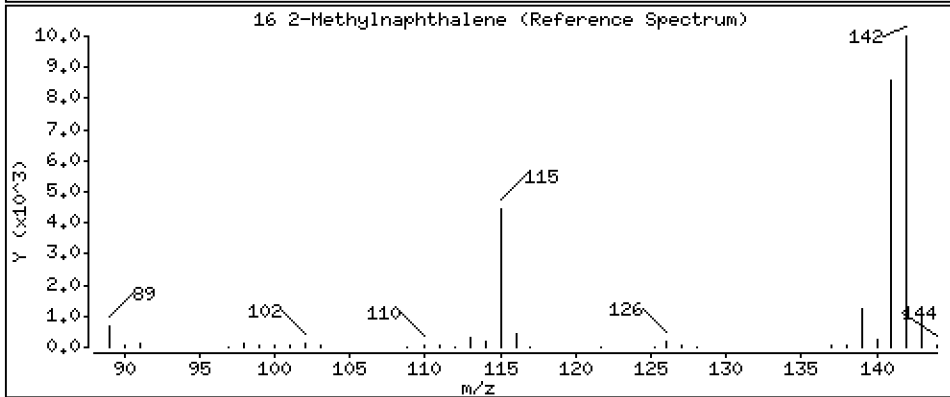
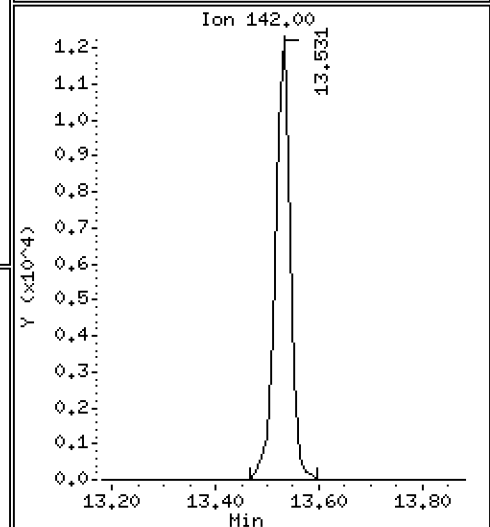
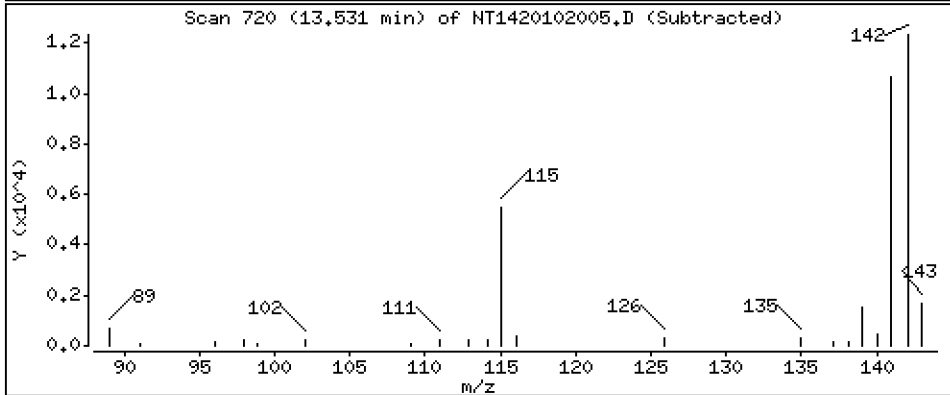
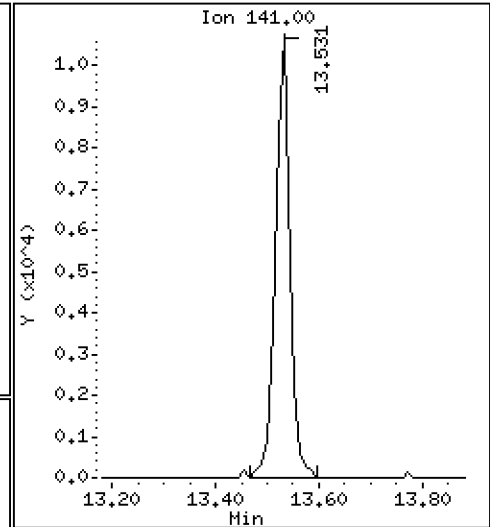
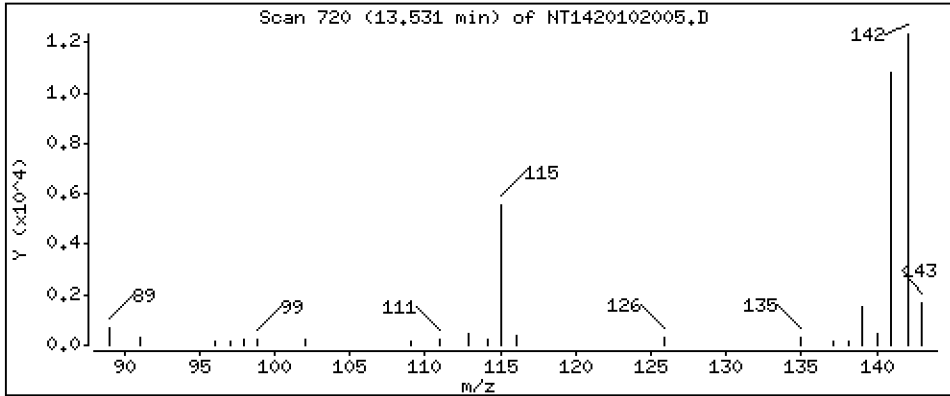
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 1,820 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

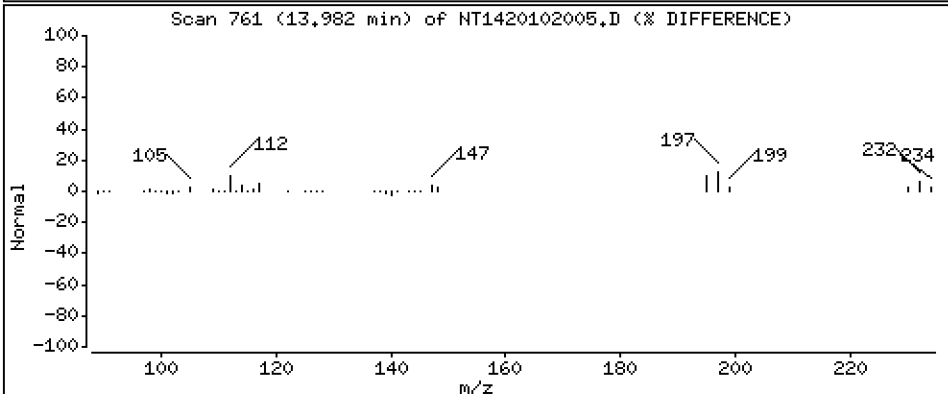
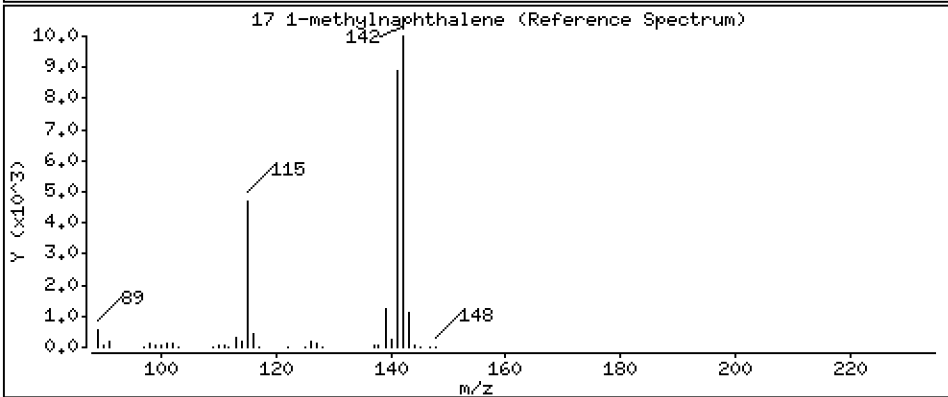
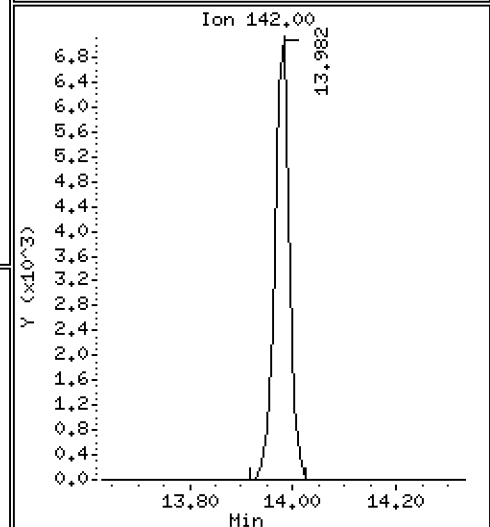
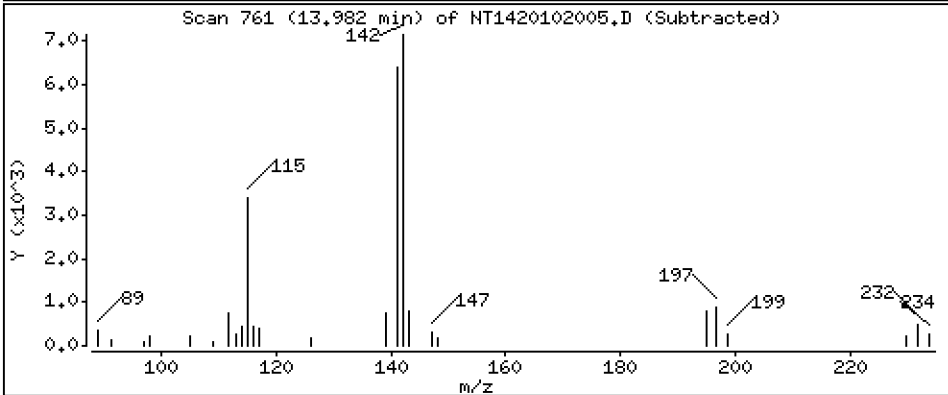
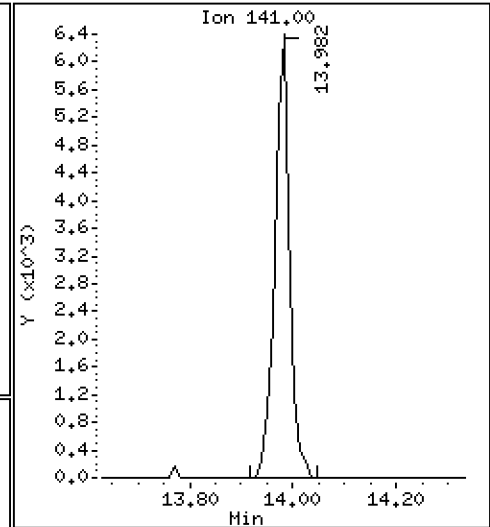
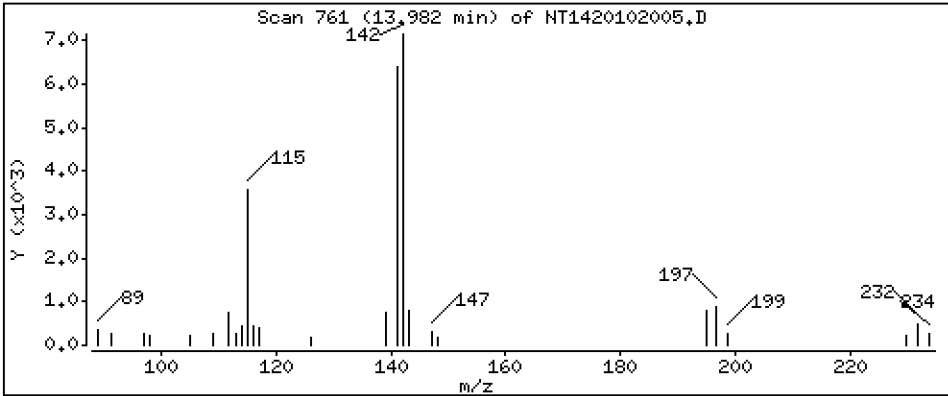
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 1,066 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

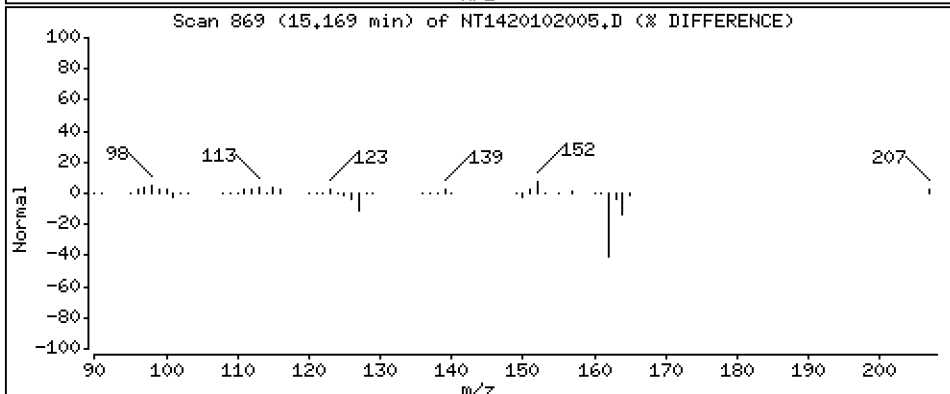
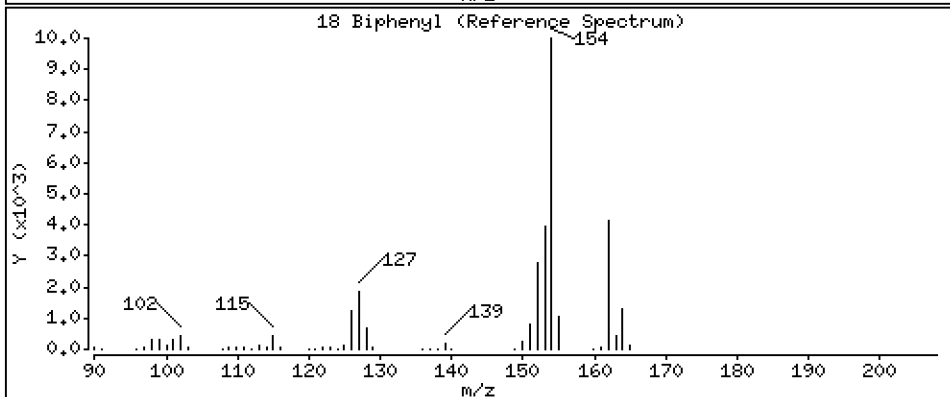
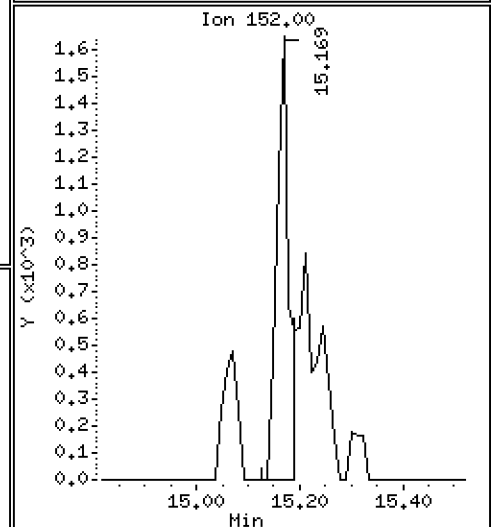
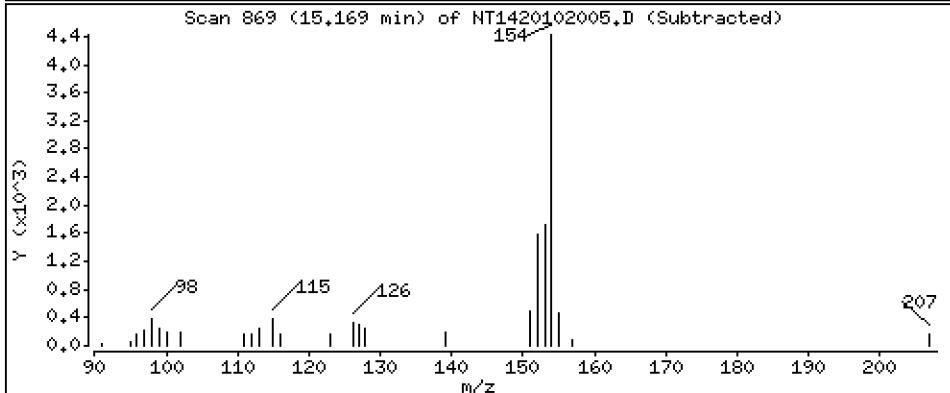
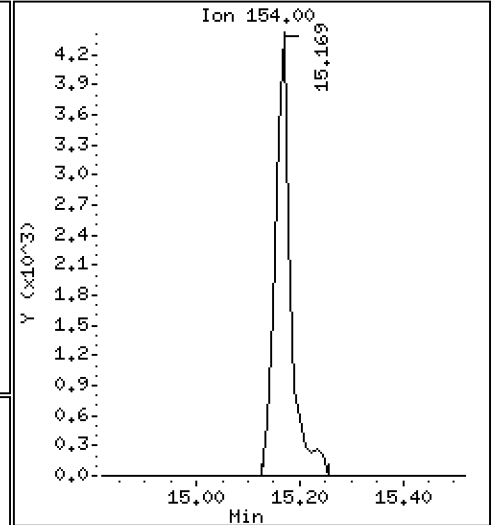
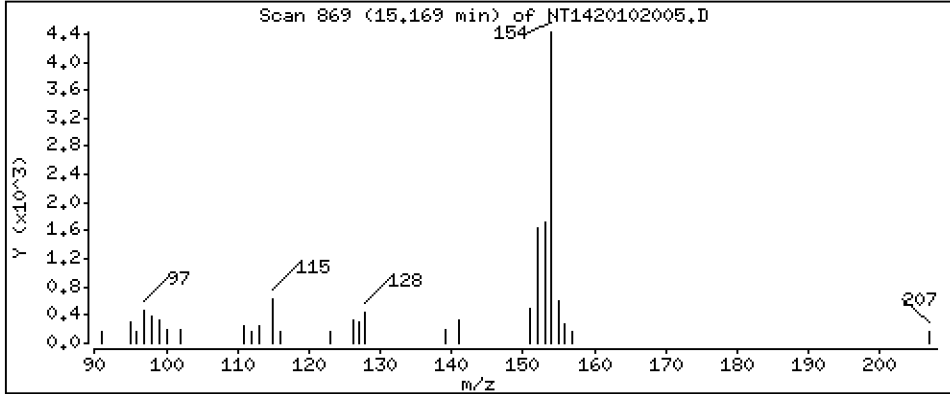
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

Concentration: 0,5273 ug/mL

18 Biphenyl



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

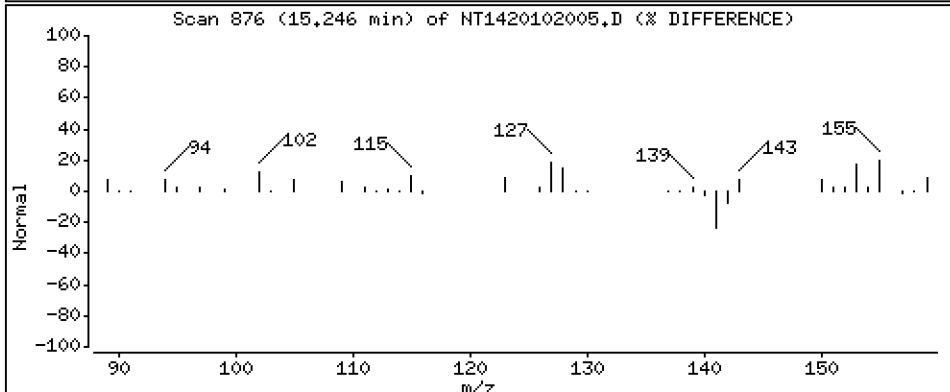
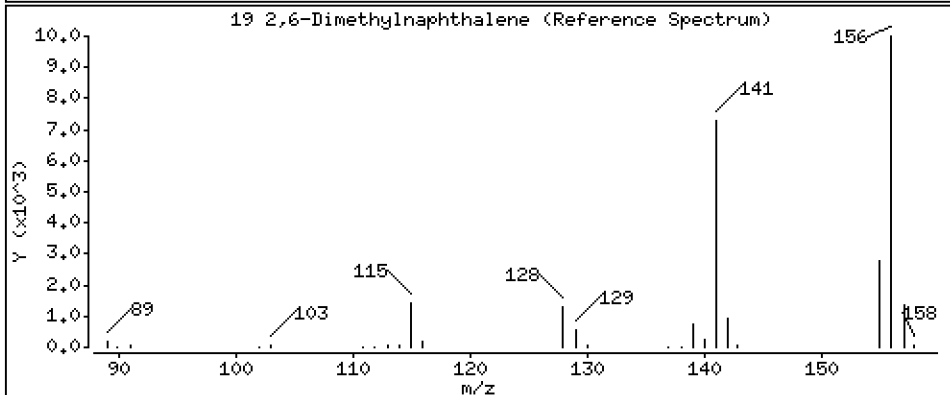
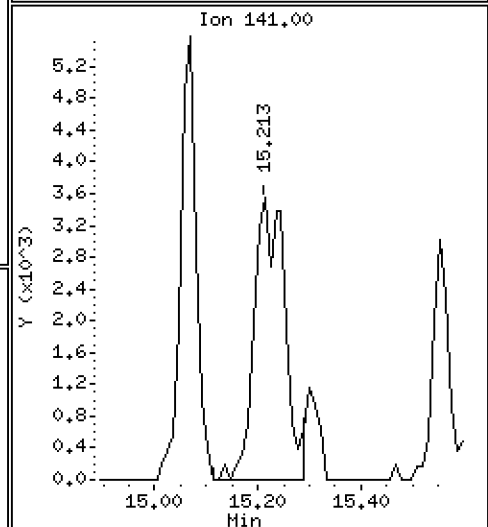
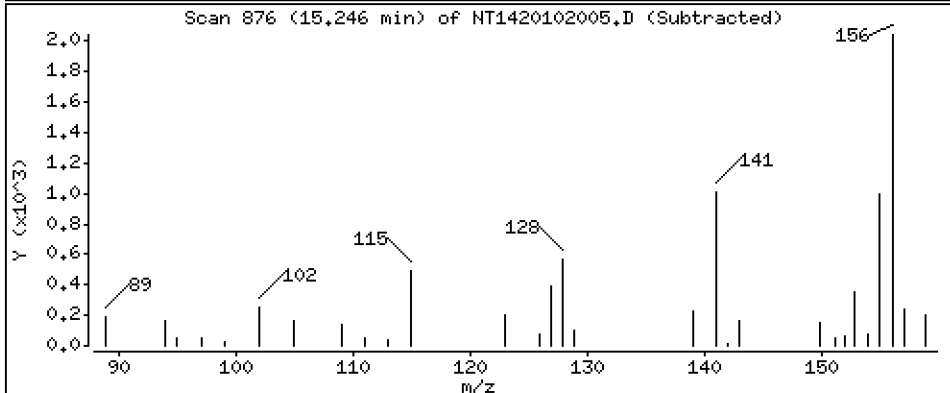
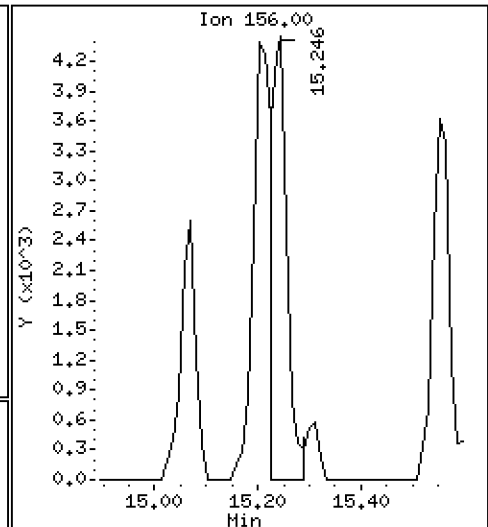
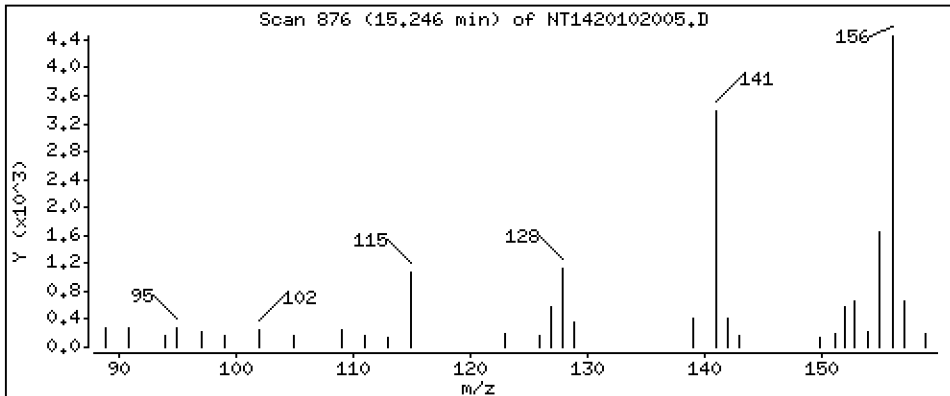
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 2,6-Dimethylnaphthalene

Concentration: 0,7930 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

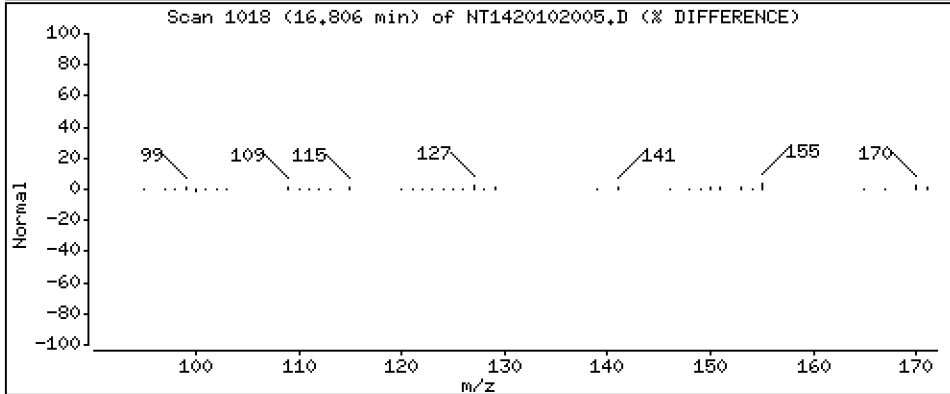
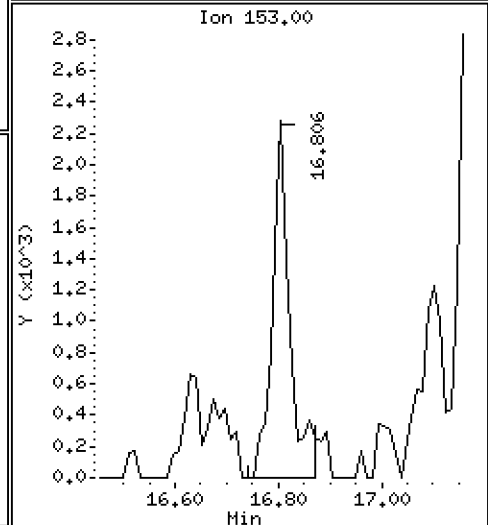
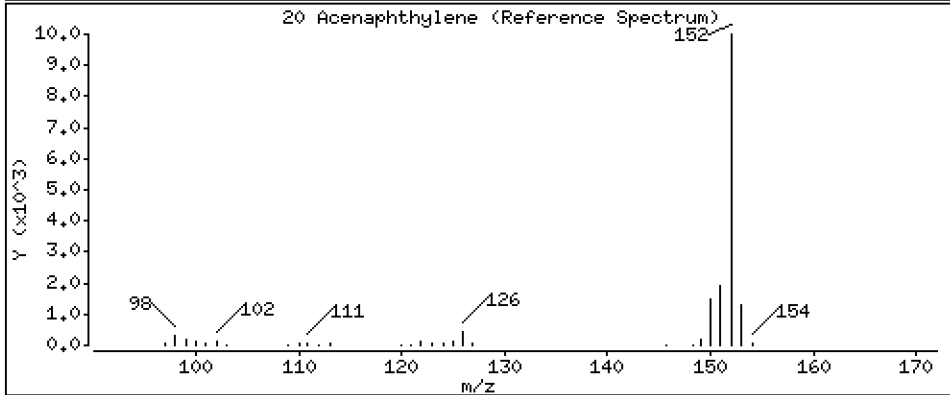
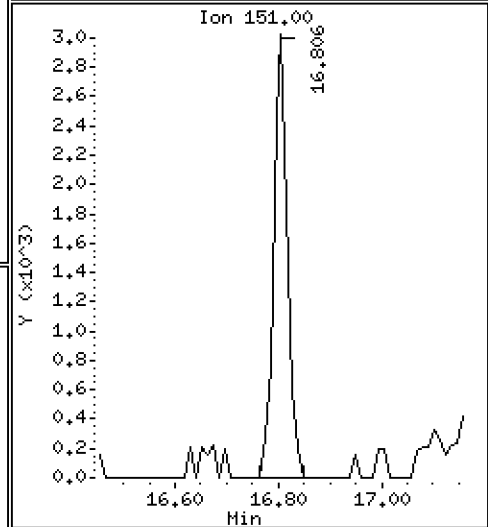
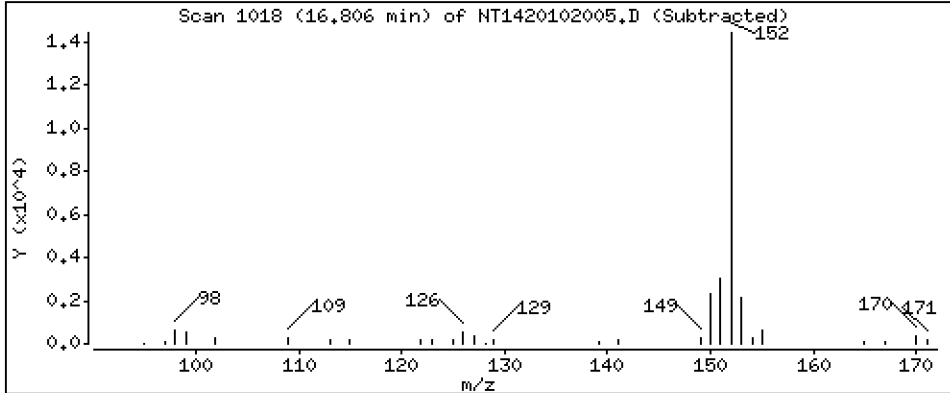
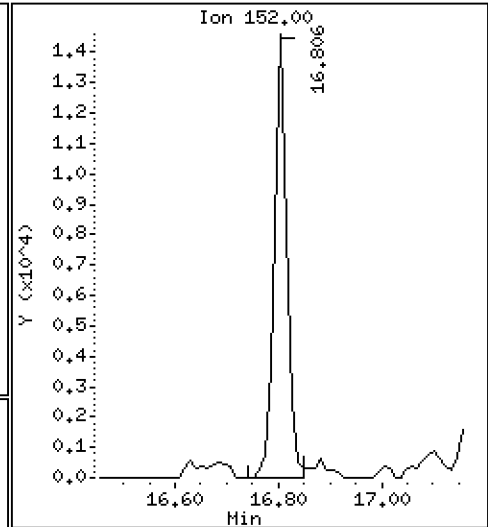
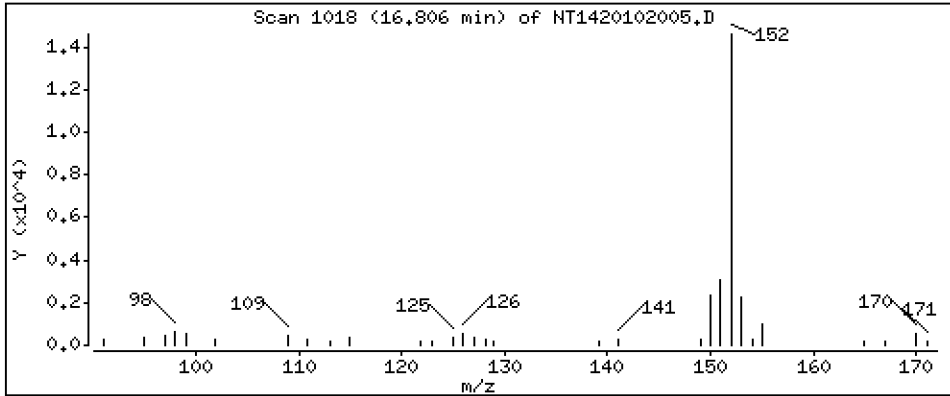
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 1,219 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

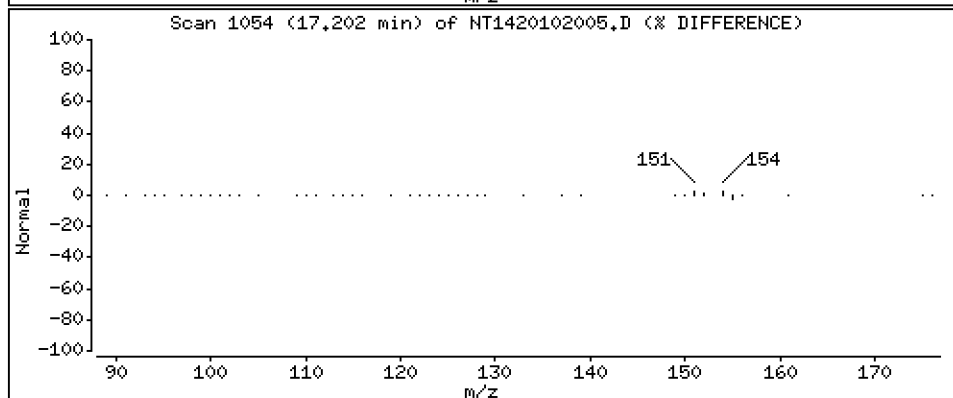
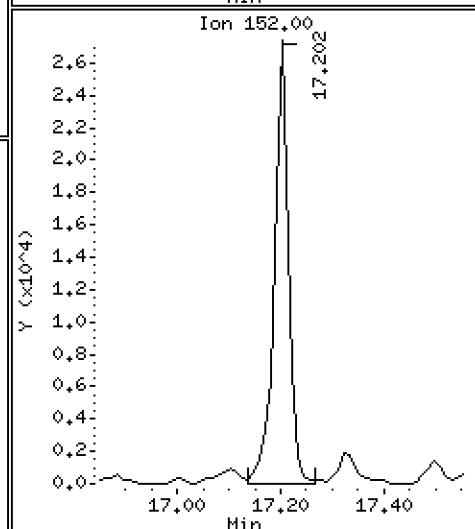
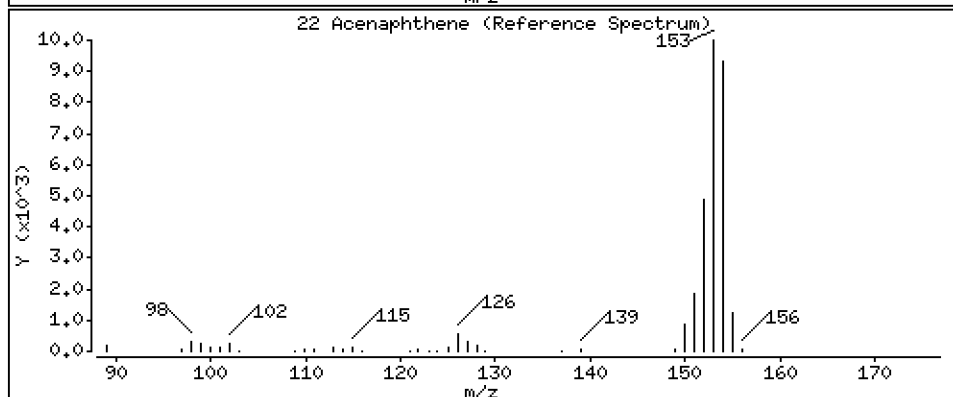
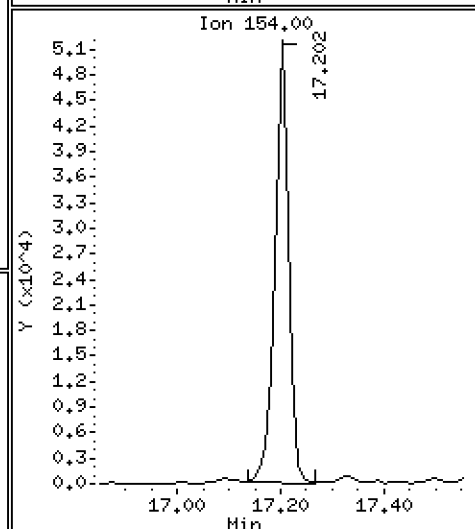
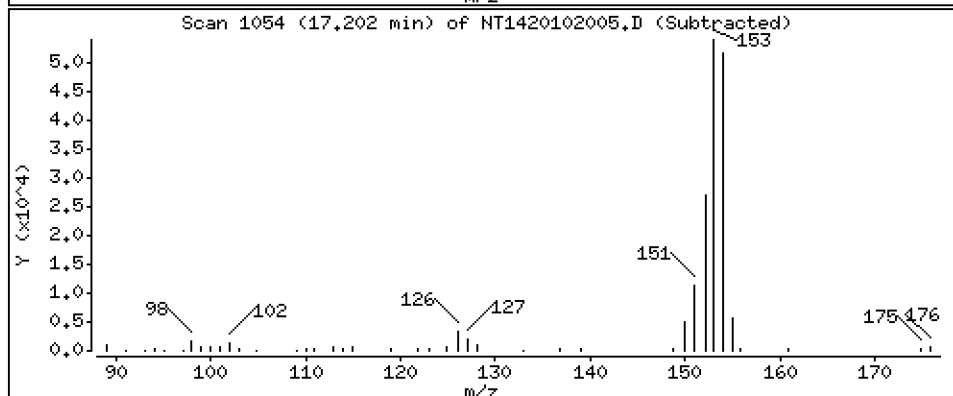
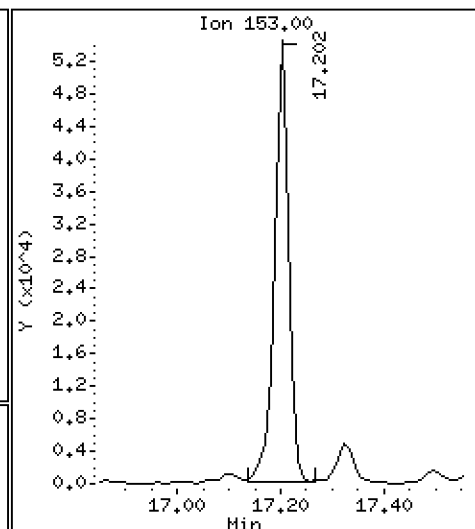
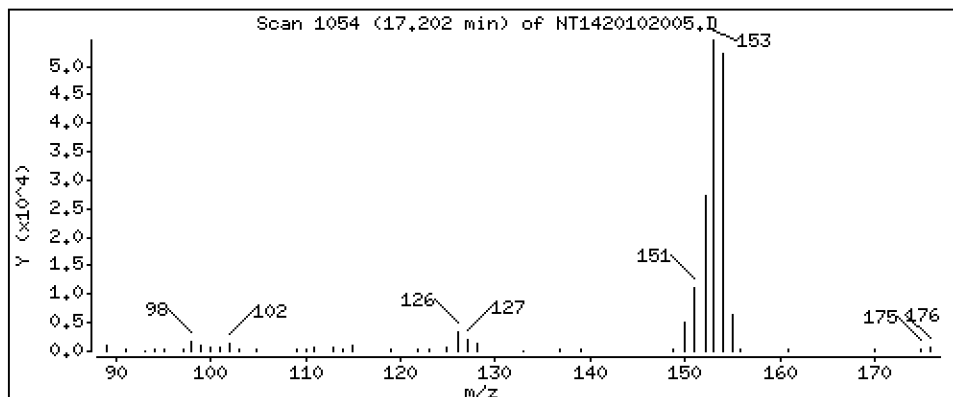
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 7,749 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

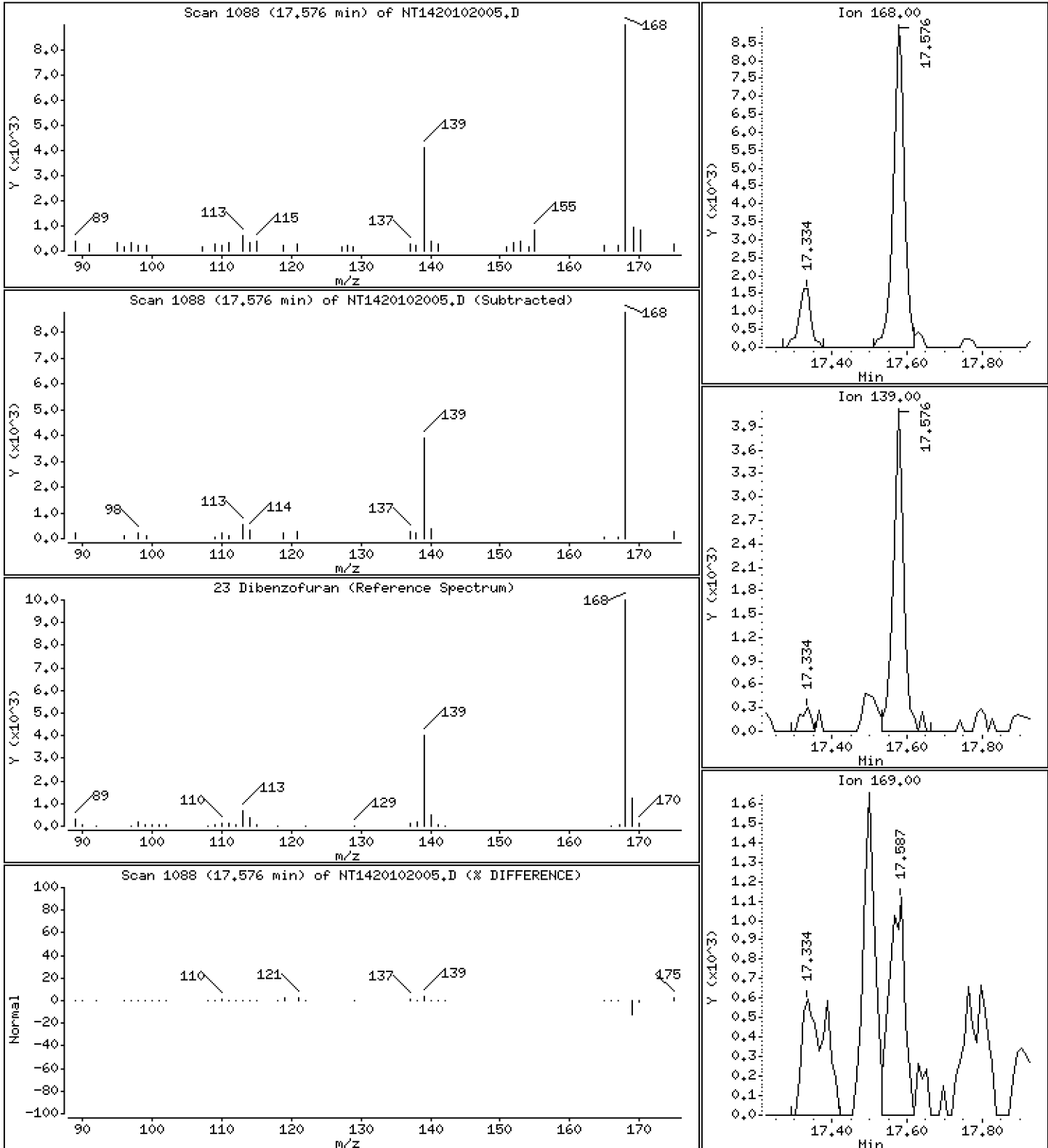
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 0,9434 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

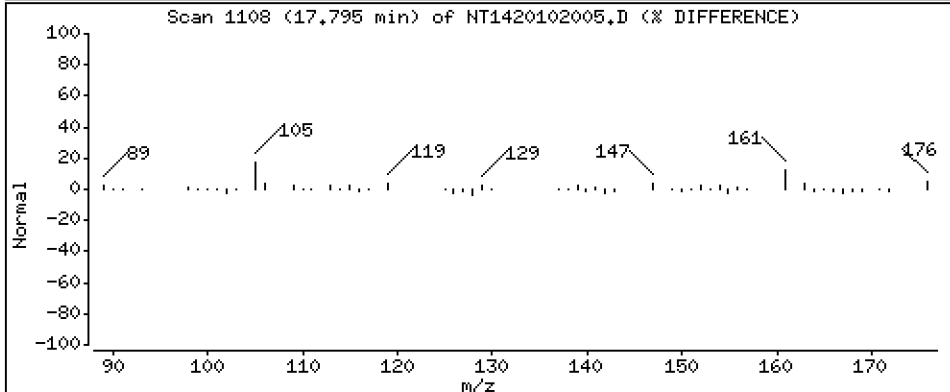
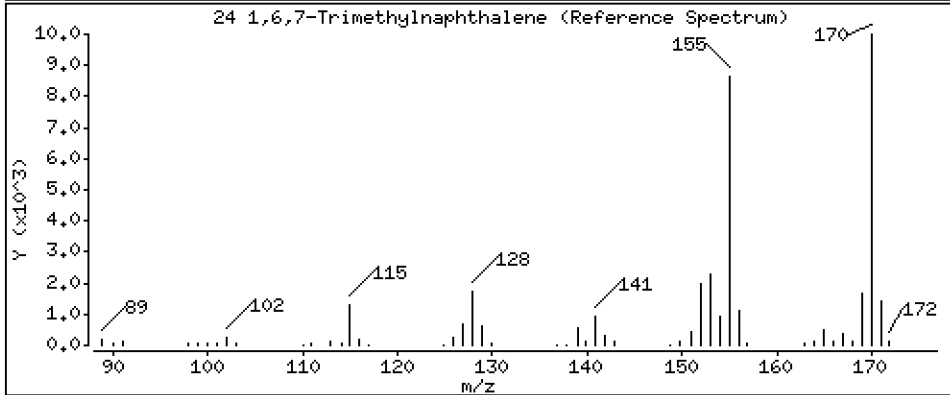
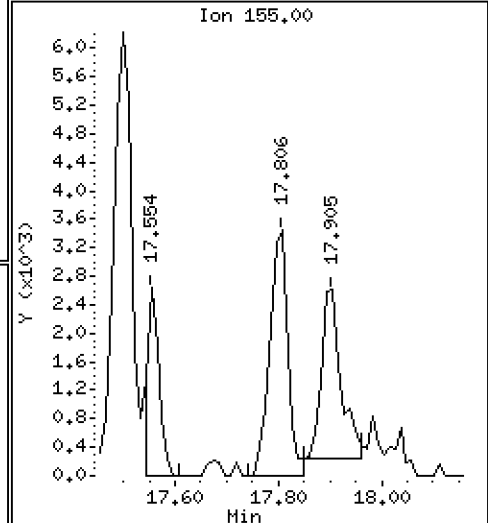
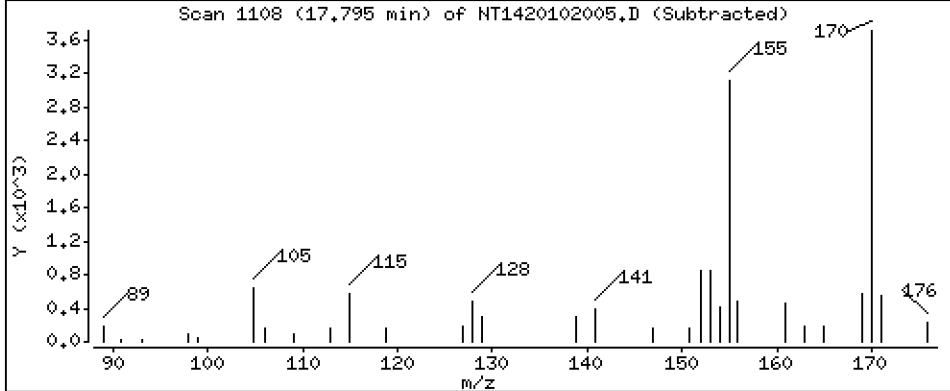
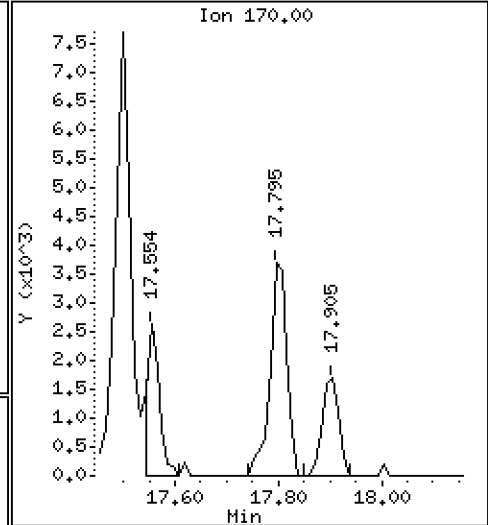
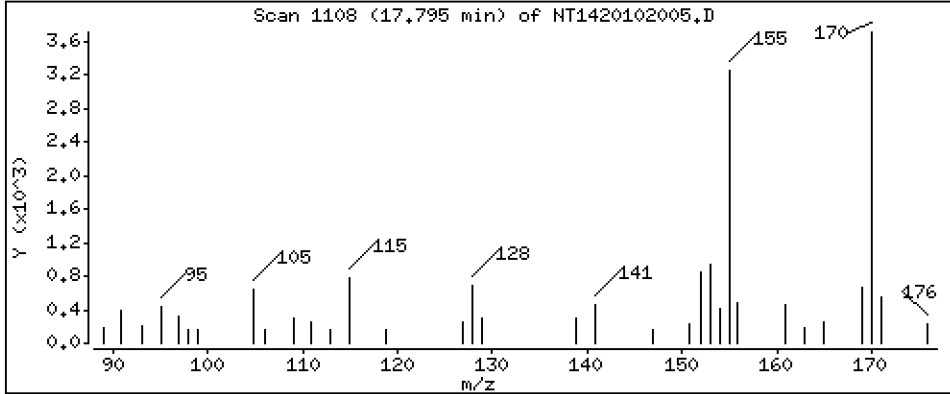
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

24 1,6,7-Trimethylnaphthalene

Concentration: 0,6453 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

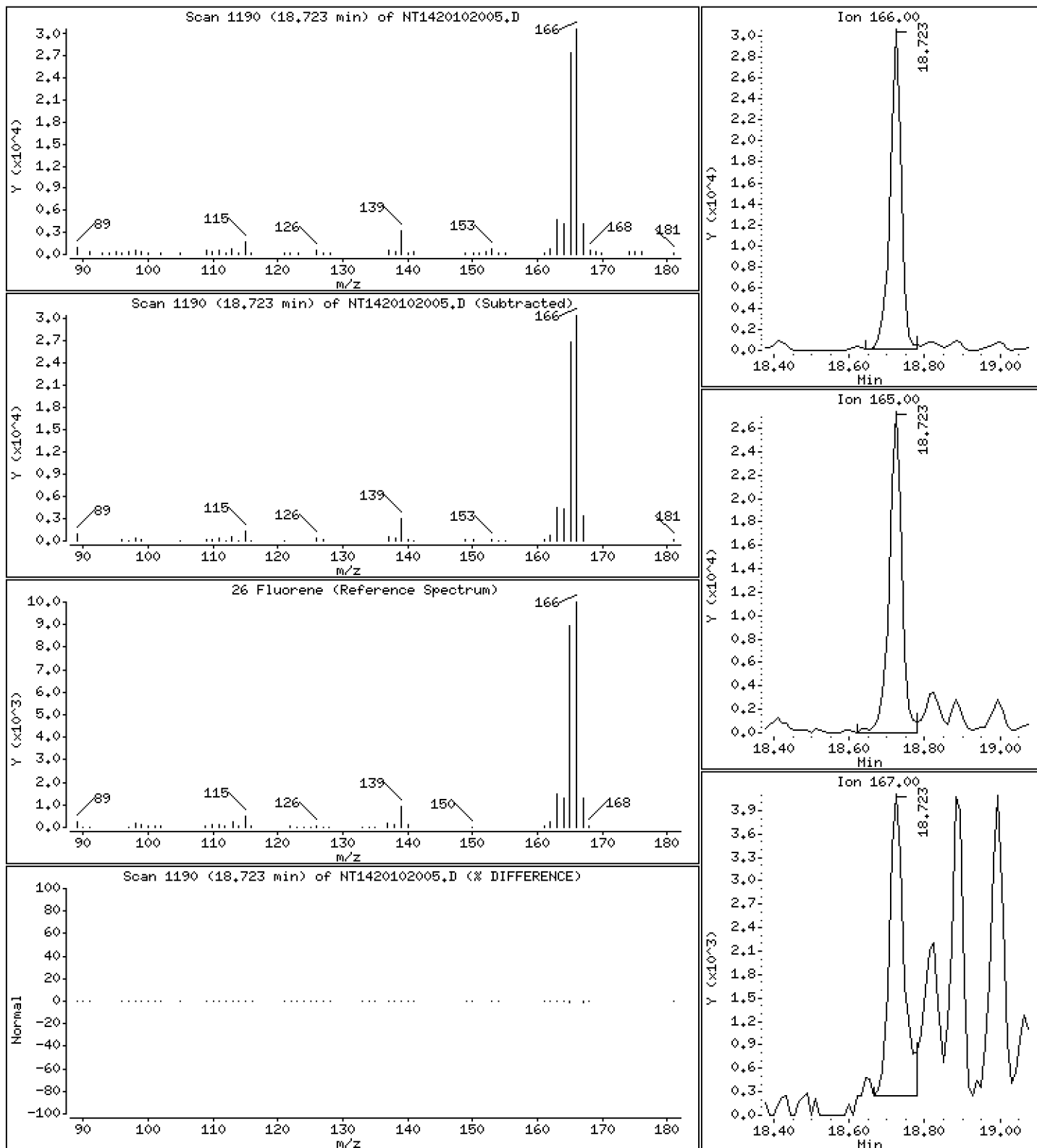
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 3,784 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

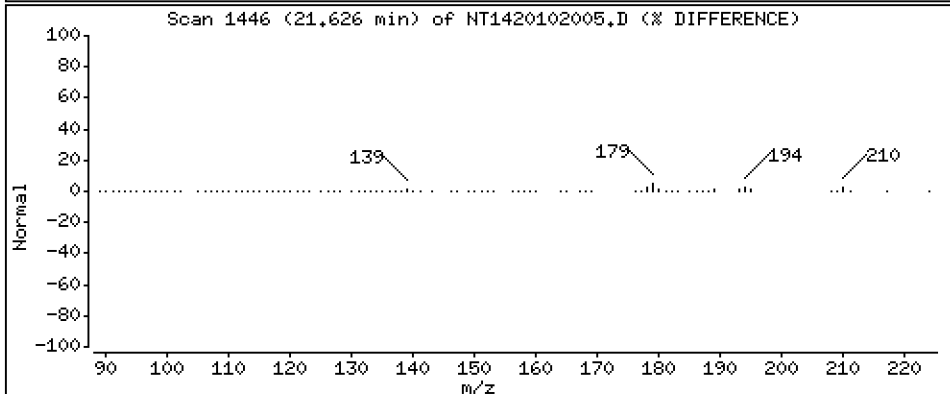
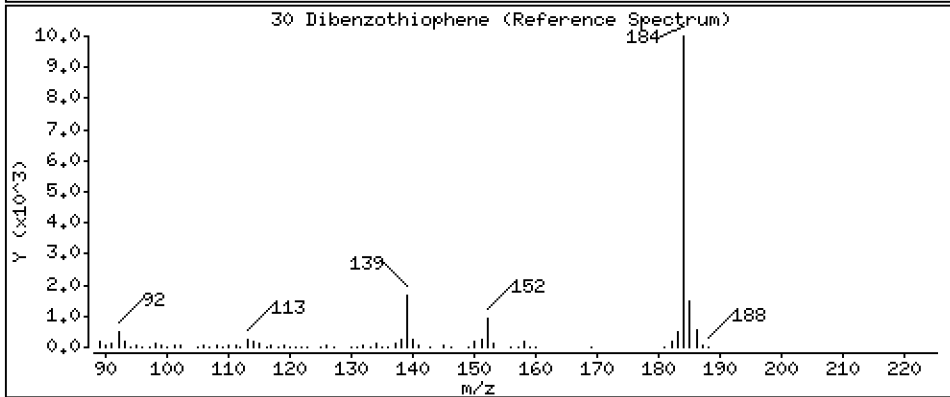
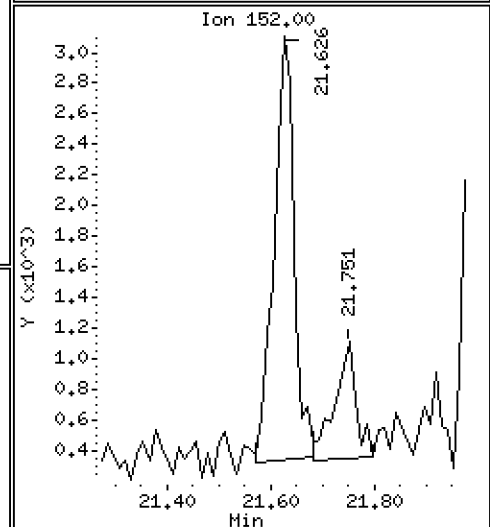
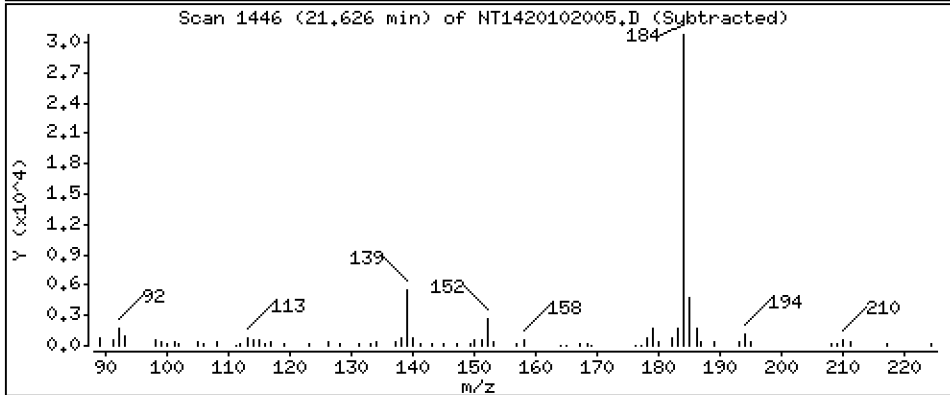
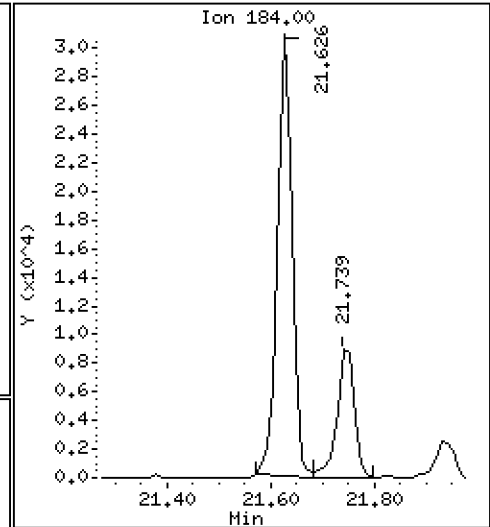
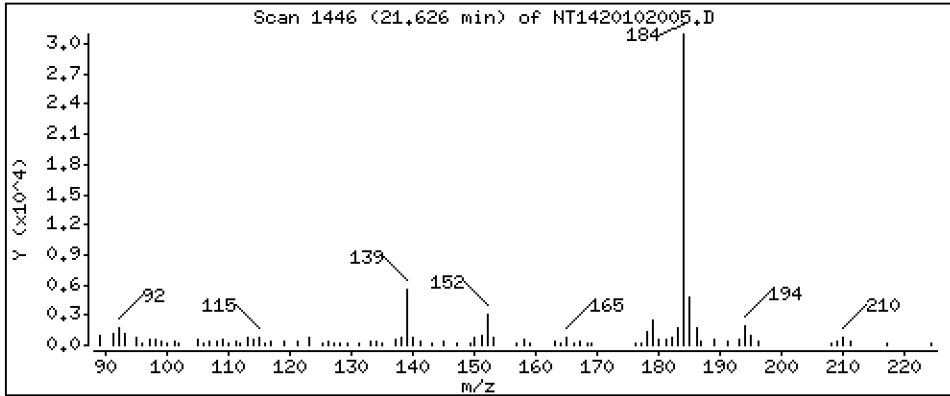
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Dibenzothiophene

Concentration: 2,646 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

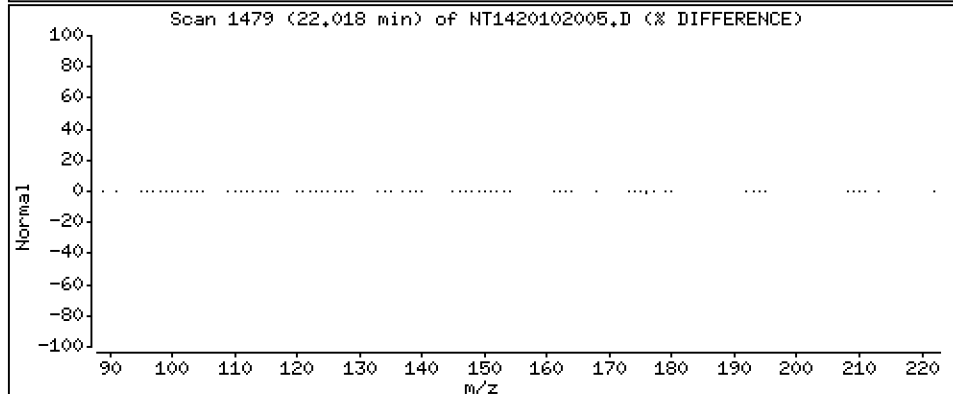
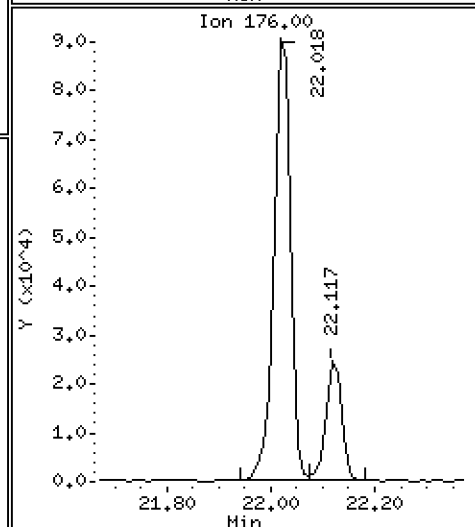
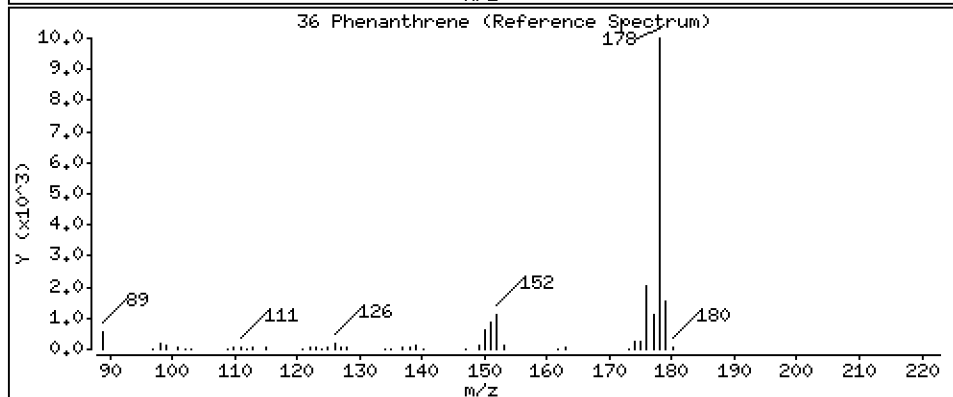
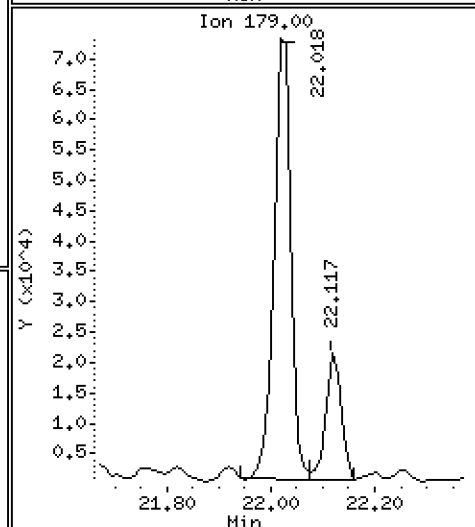
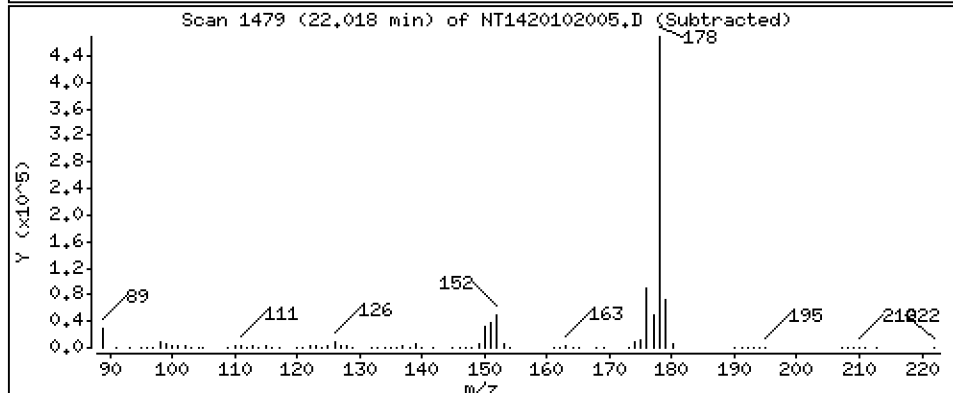
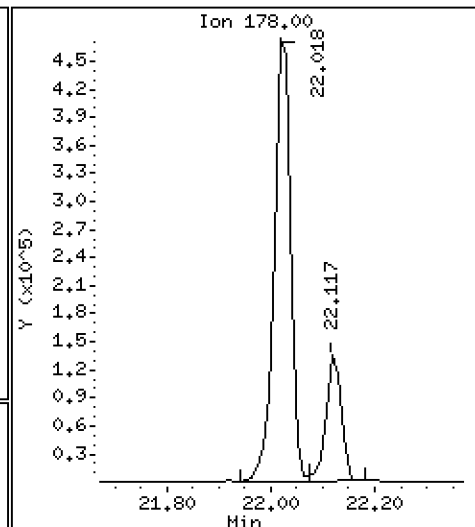
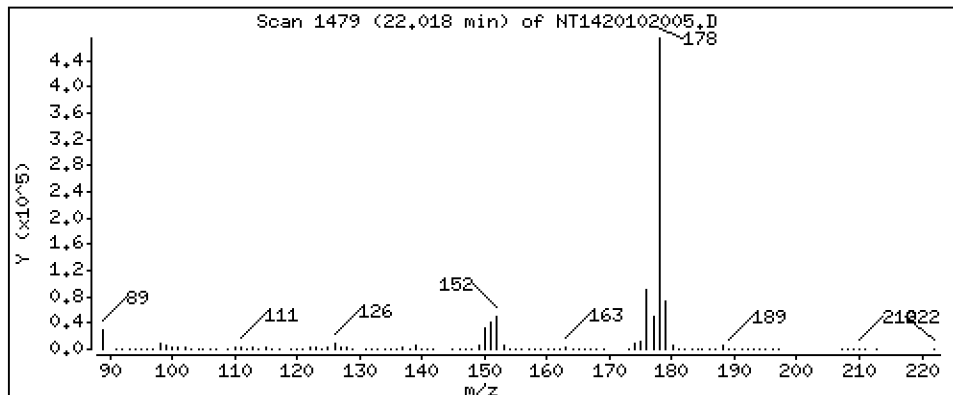
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

36 Phenanthrene

Concentration: 42,21 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

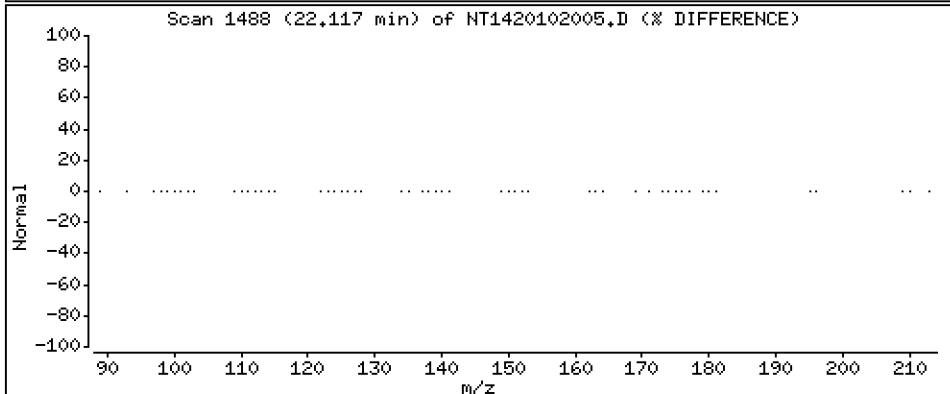
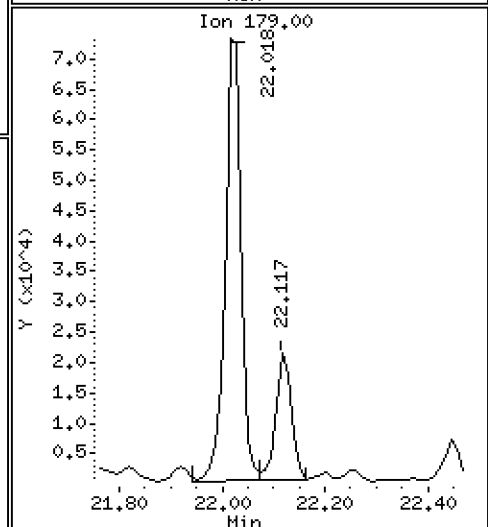
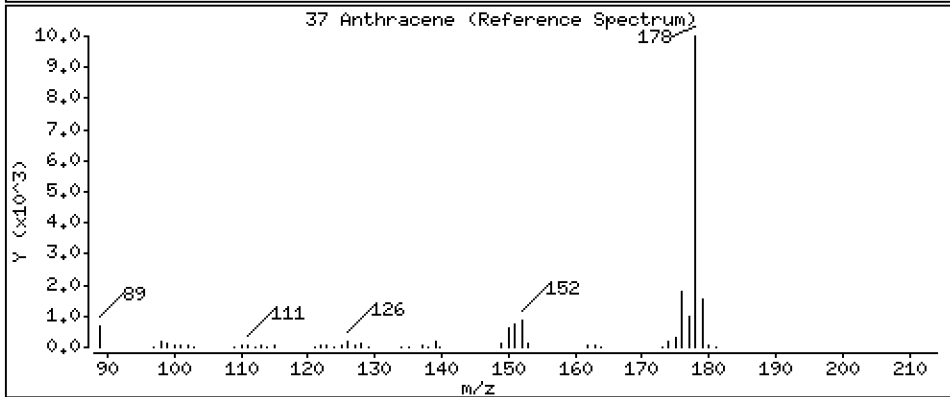
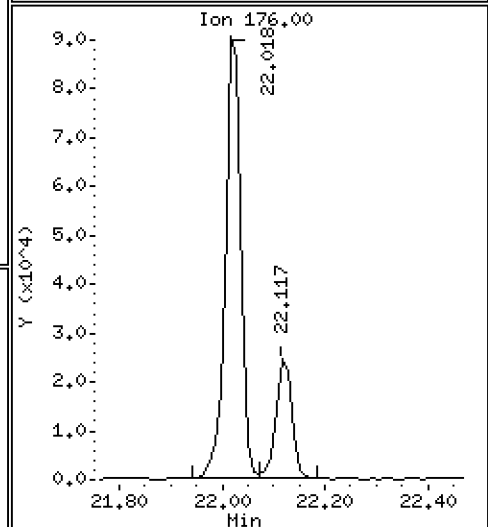
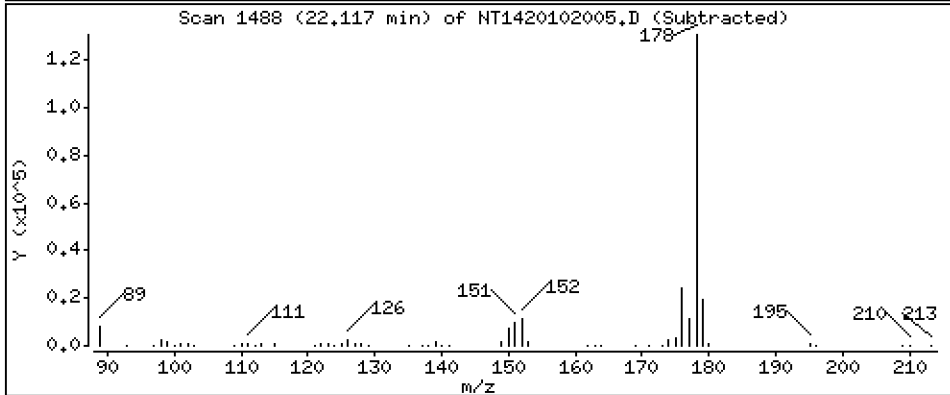
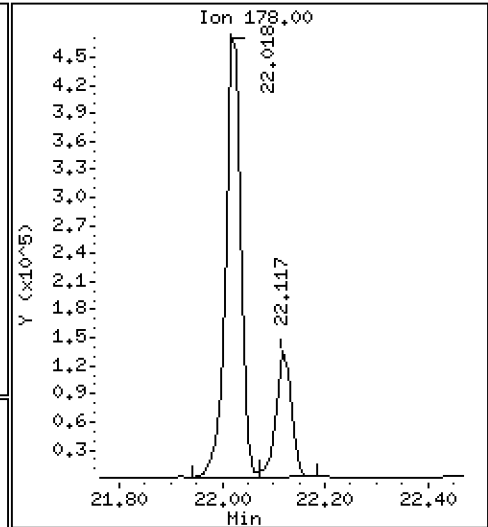
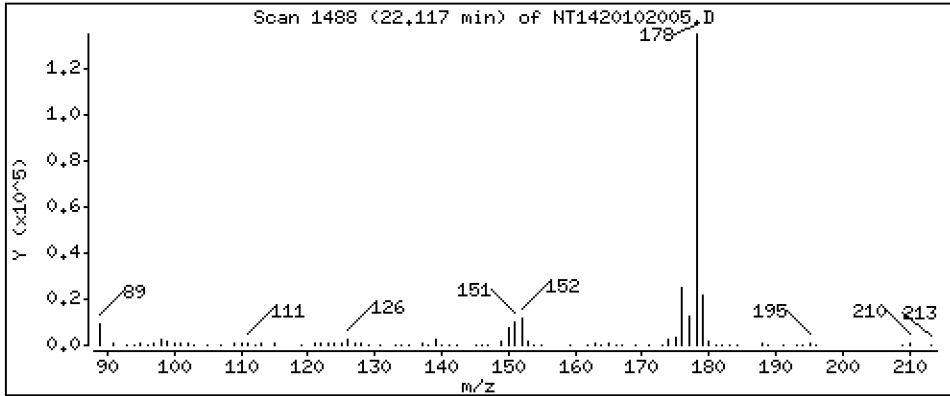
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 11,42 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

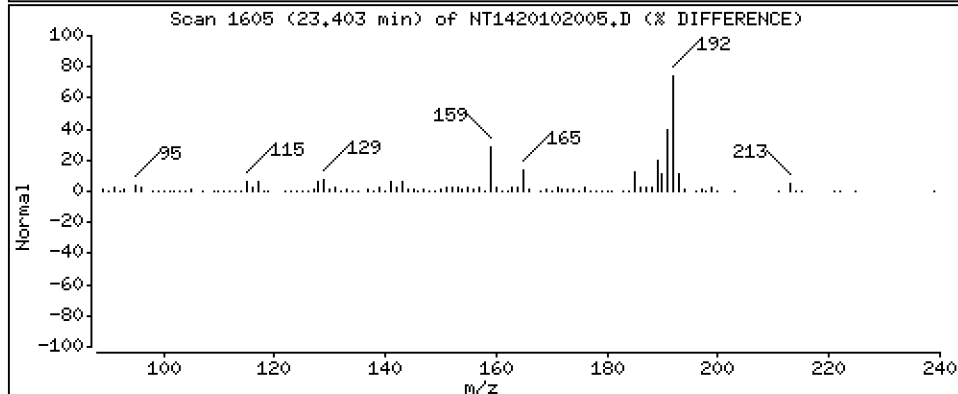
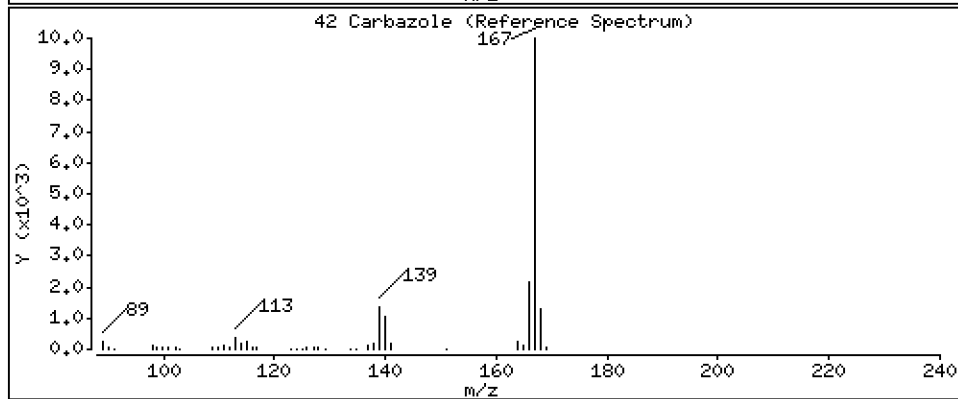
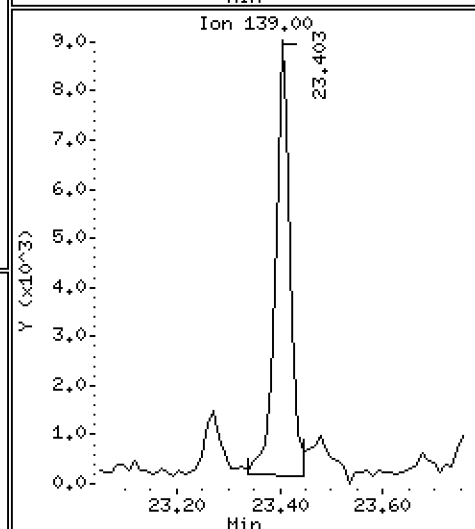
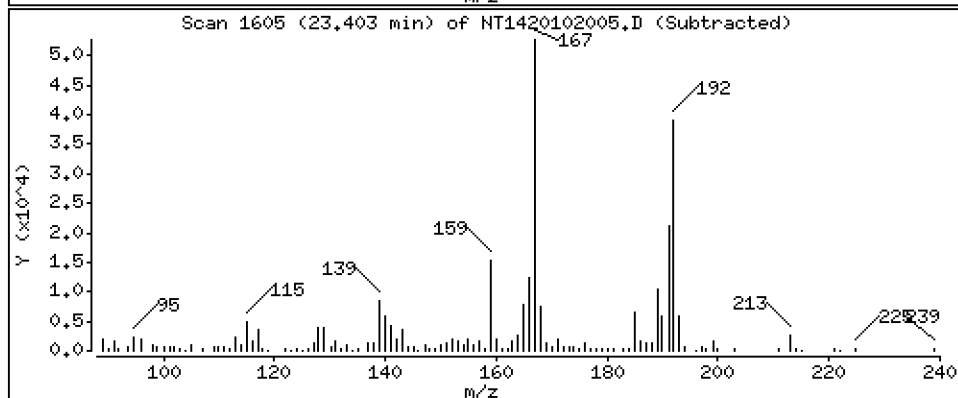
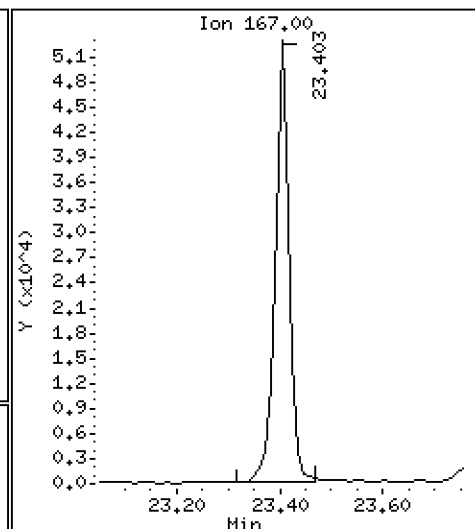
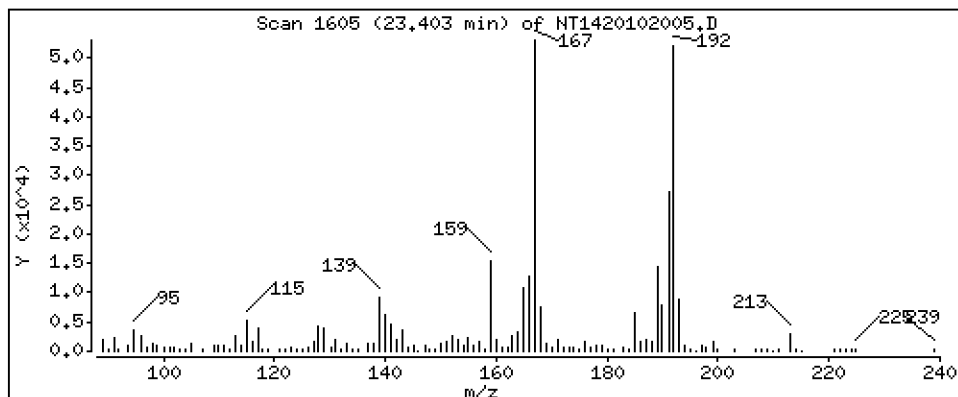
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 5,094 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

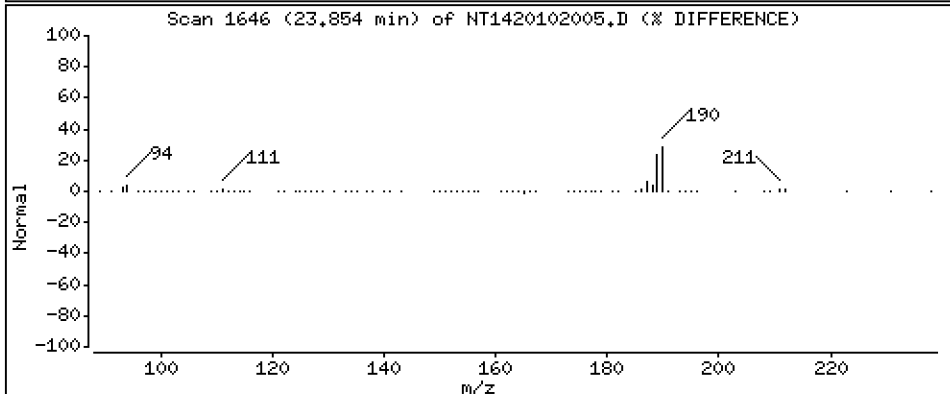
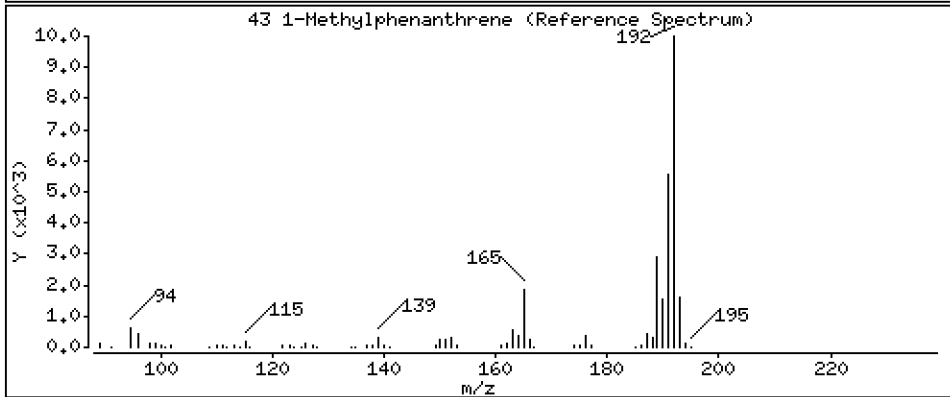
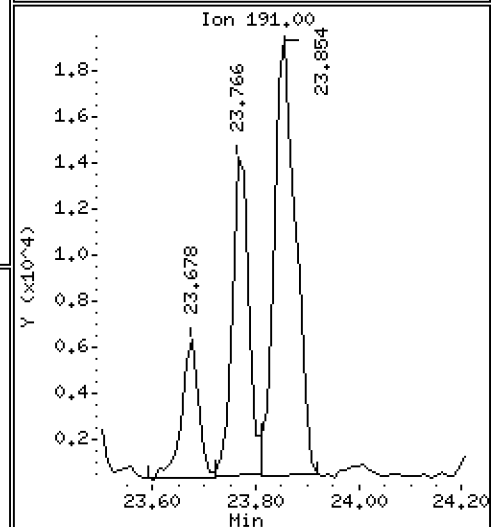
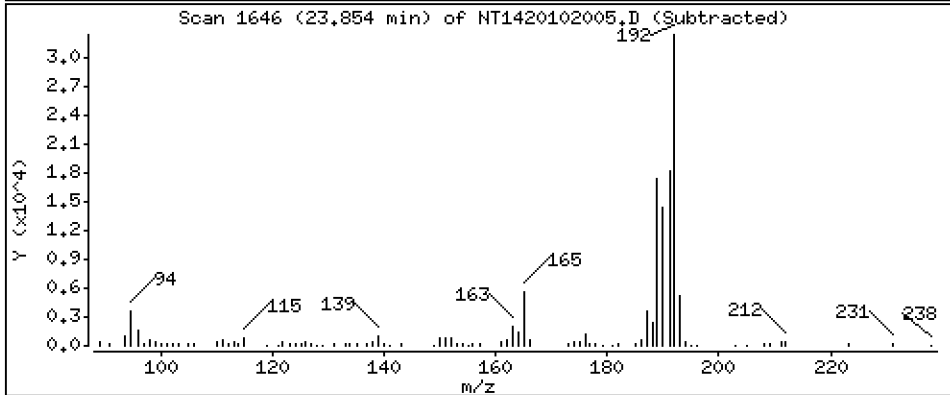
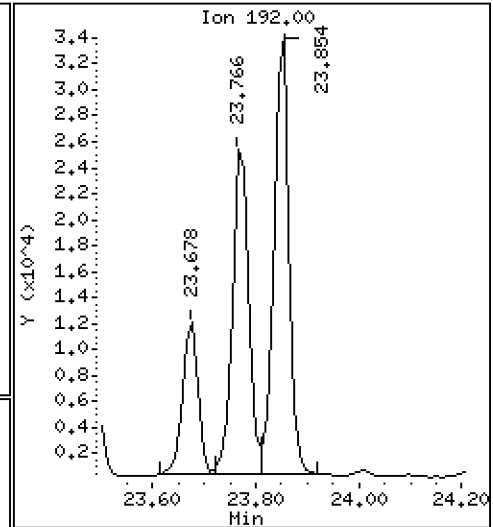
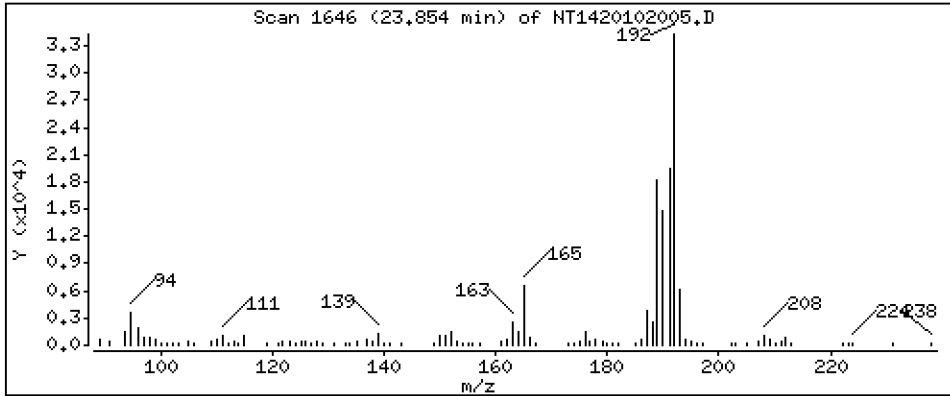
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

43 1-Methylphenanthrene

Concentration: 4,038 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

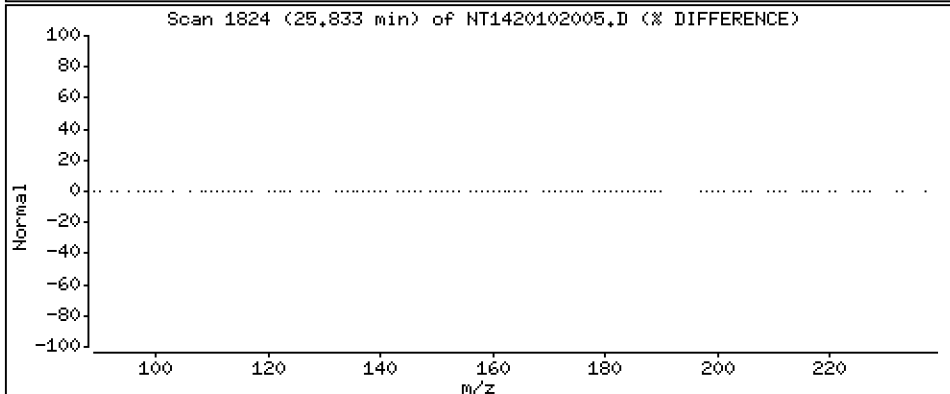
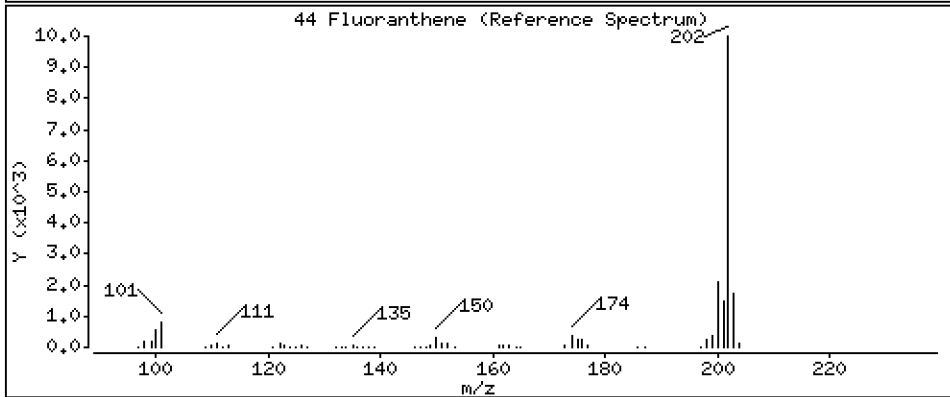
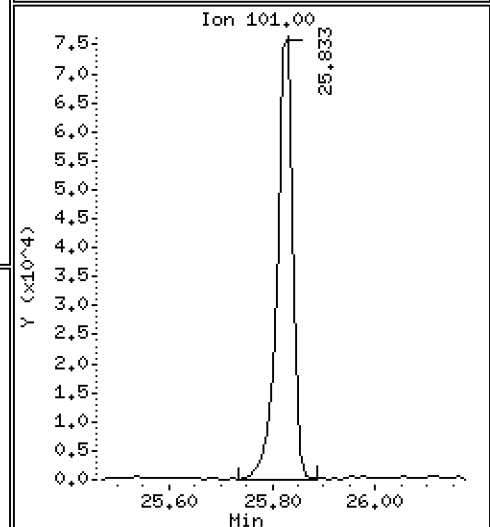
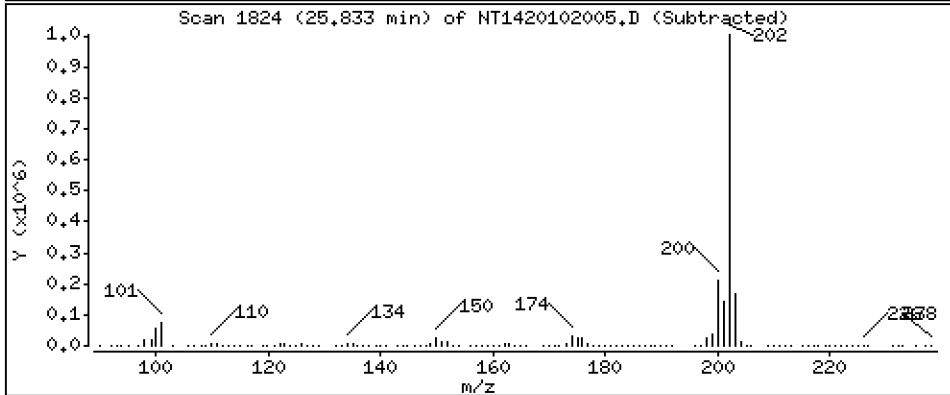
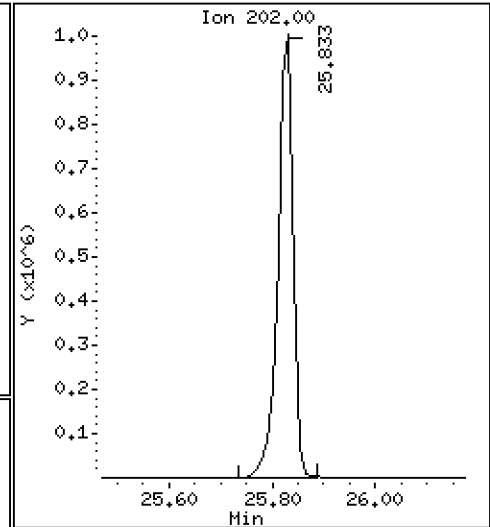
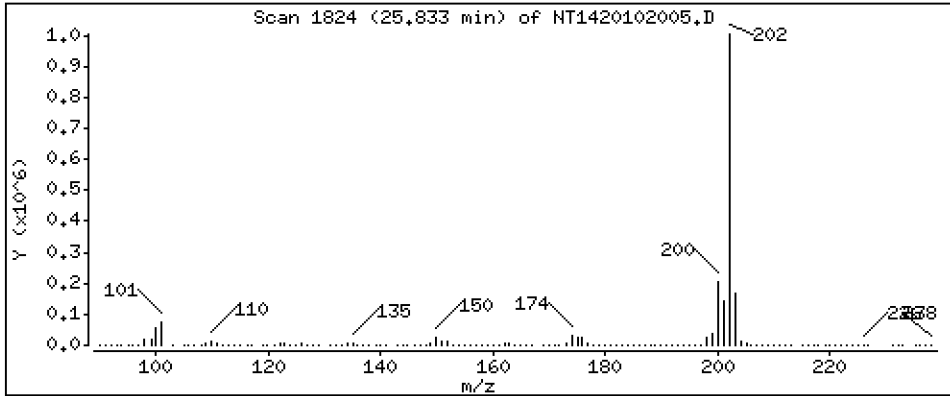
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 79,71 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

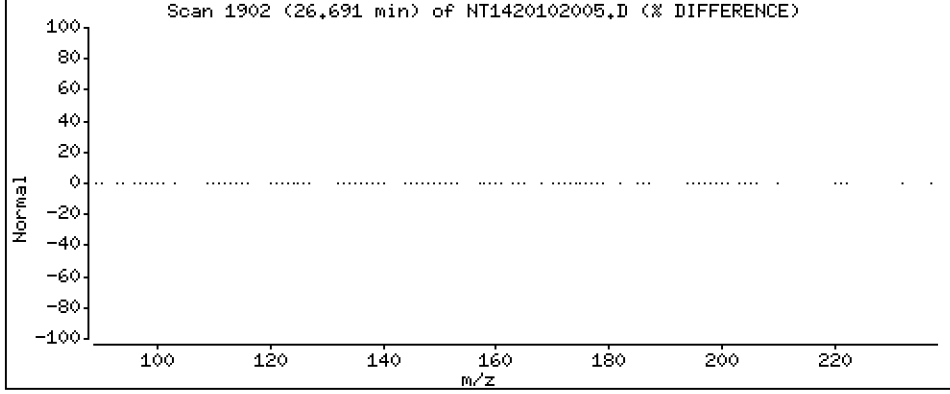
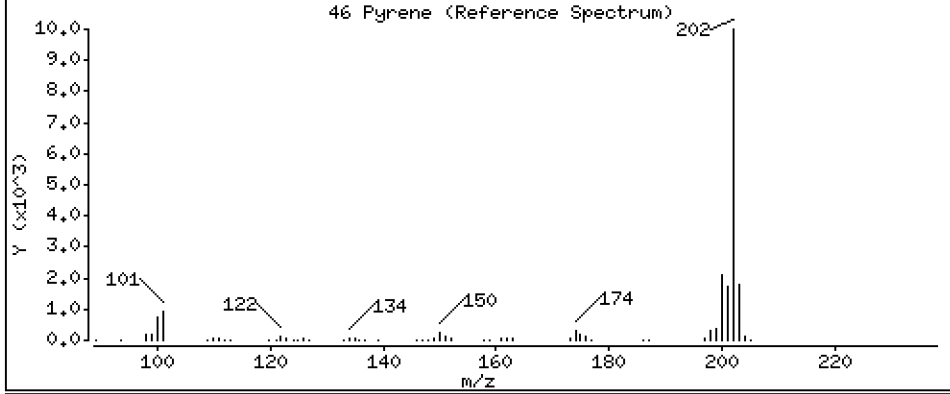
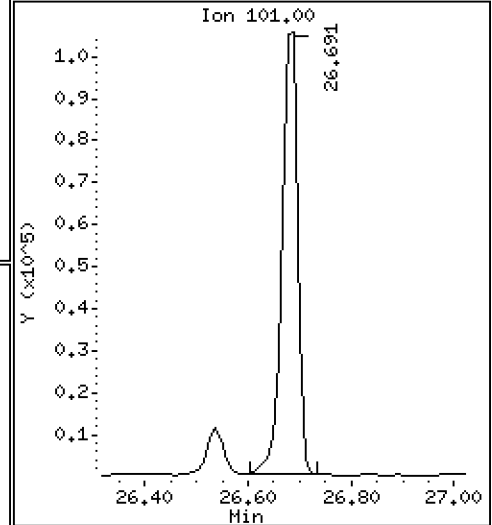
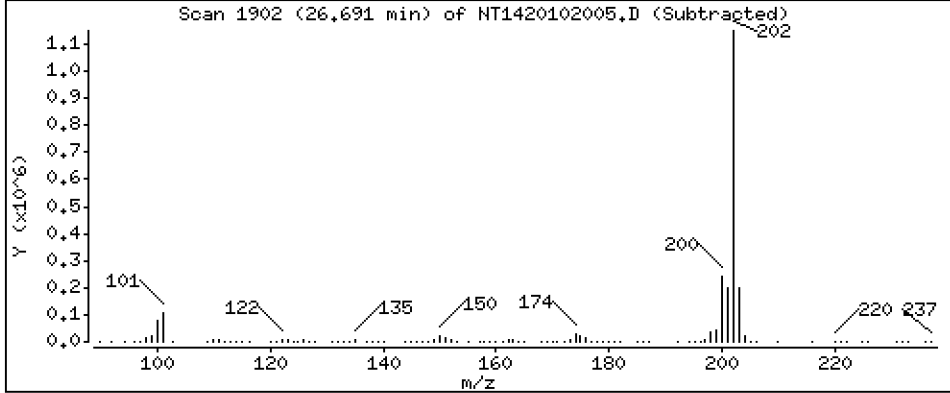
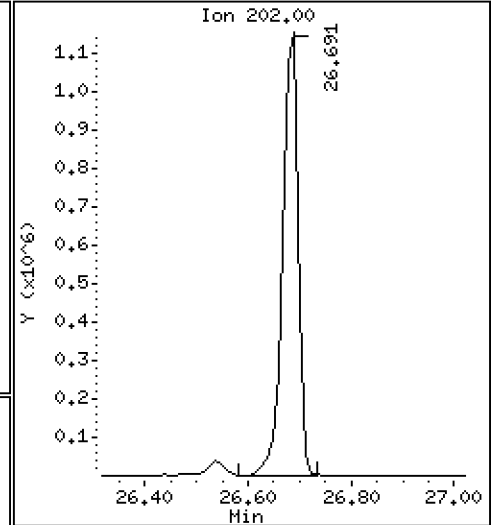
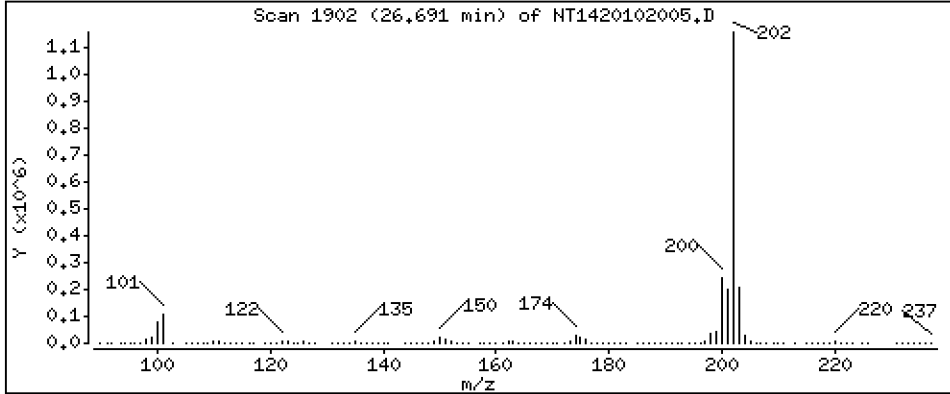
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 86,10 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

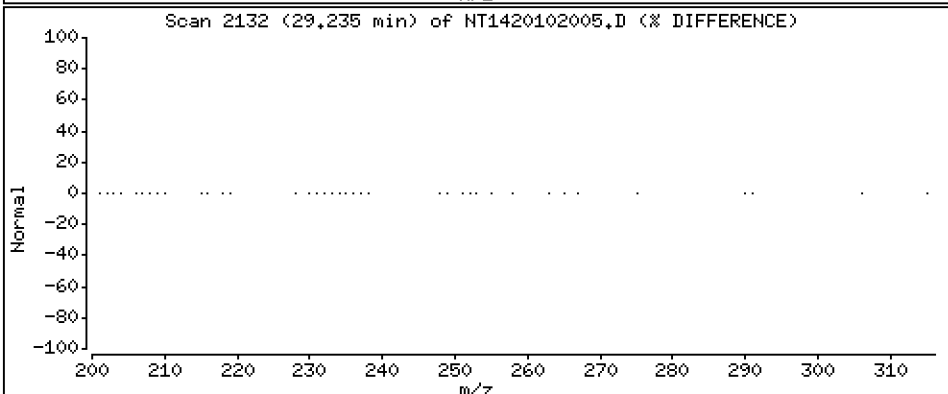
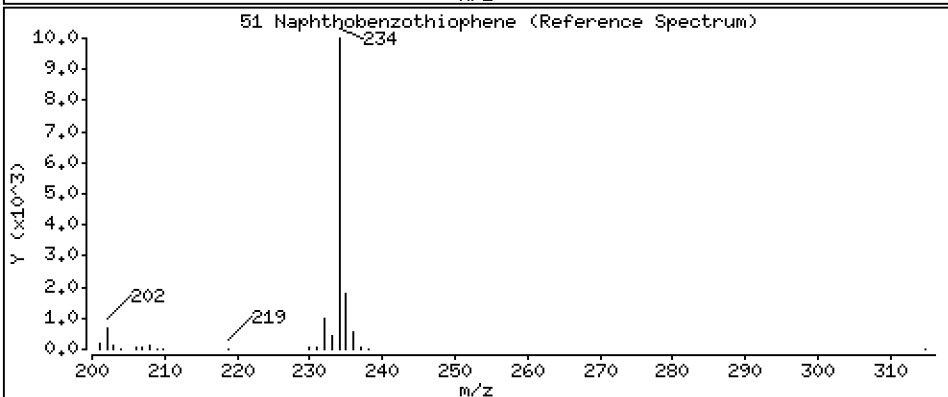
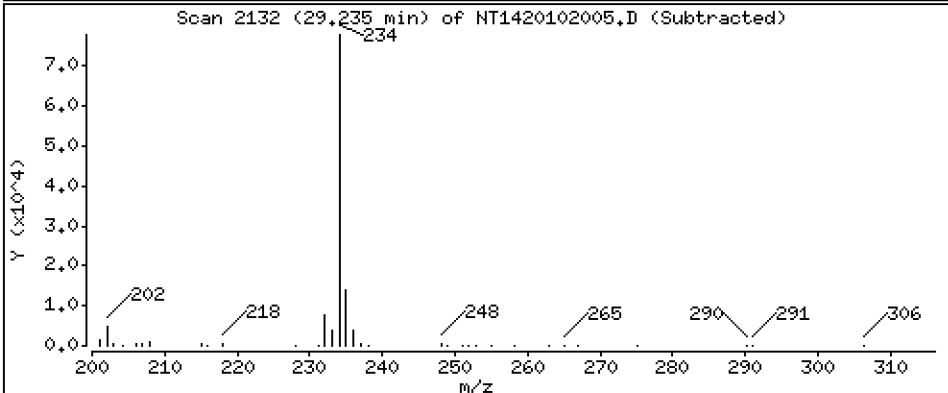
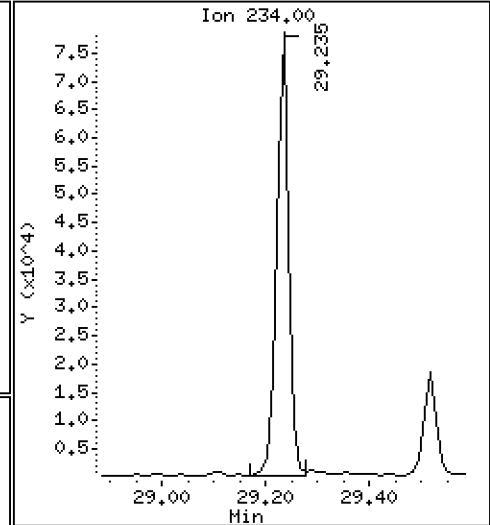
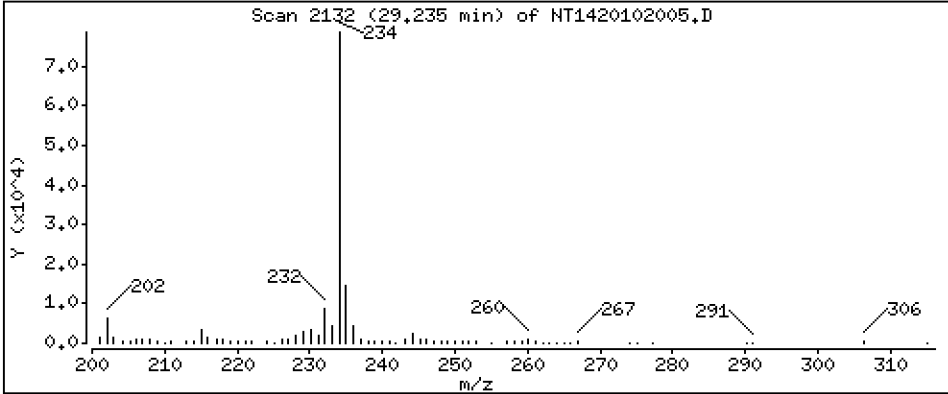
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

51 Naphthobenzothiophene

Concentration: 5,197 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

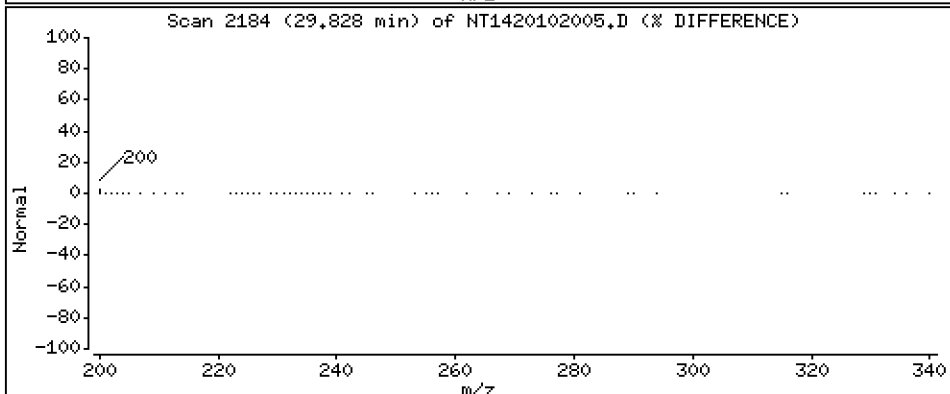
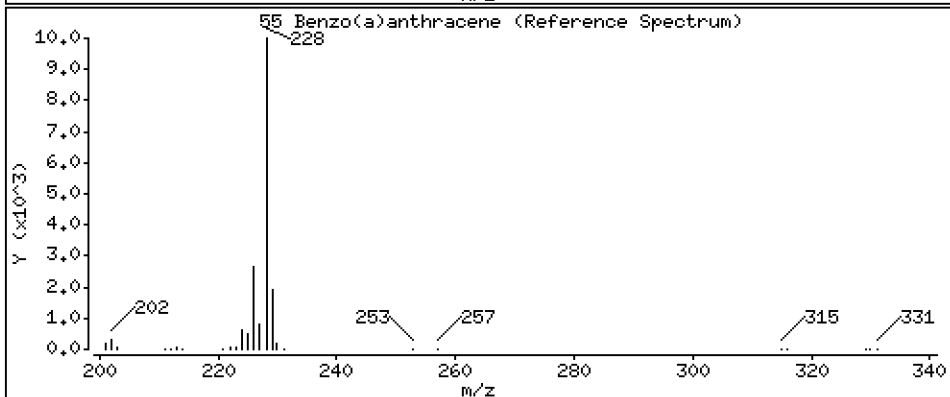
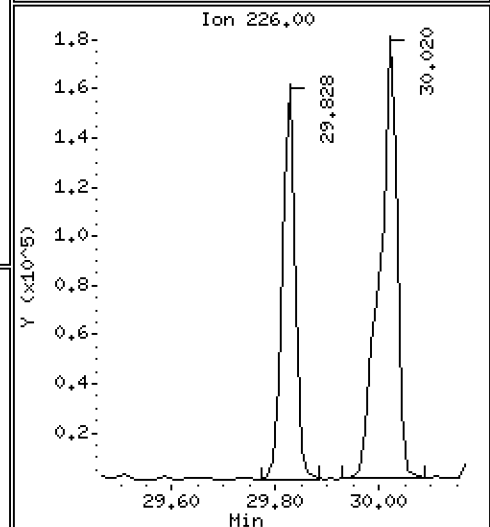
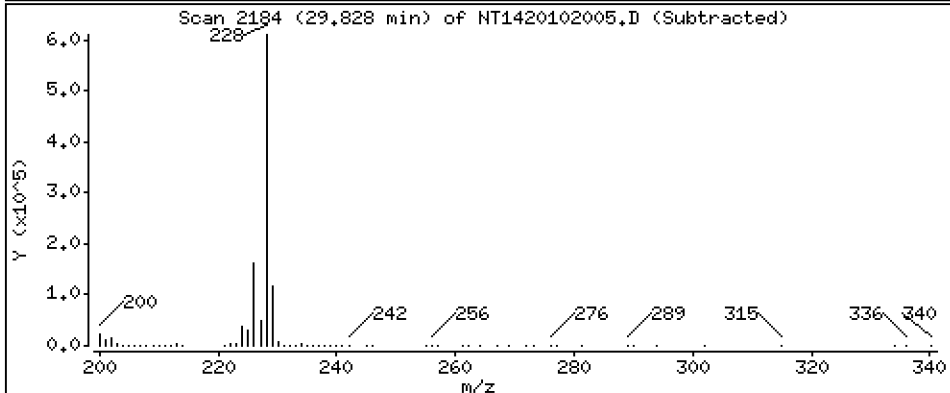
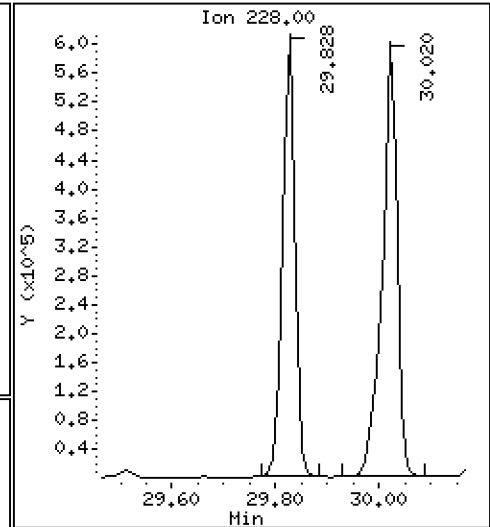
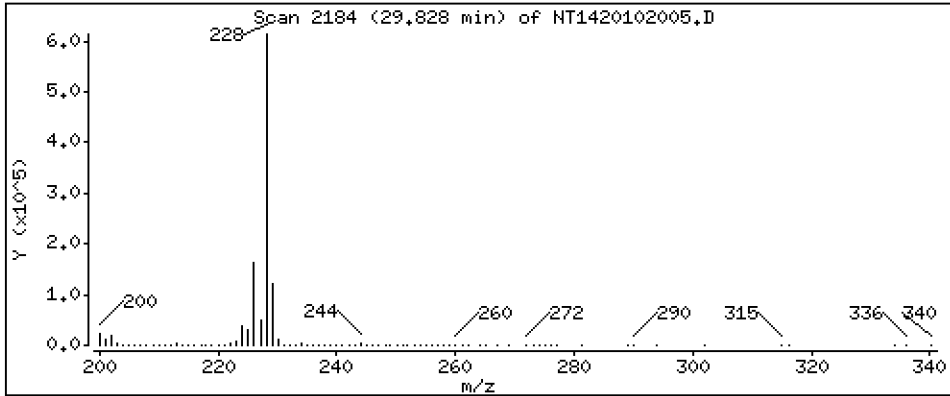
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 35,91 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

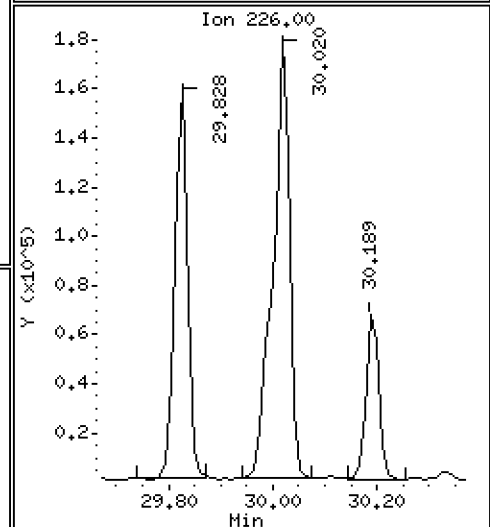
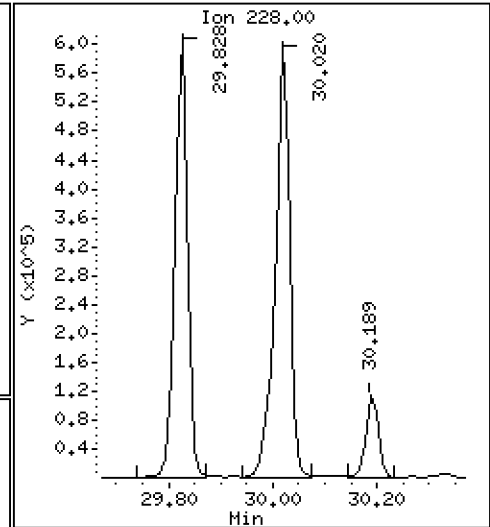
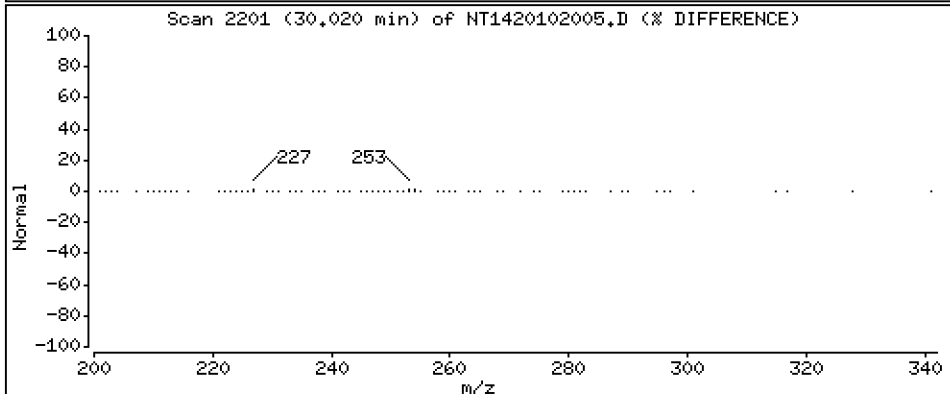
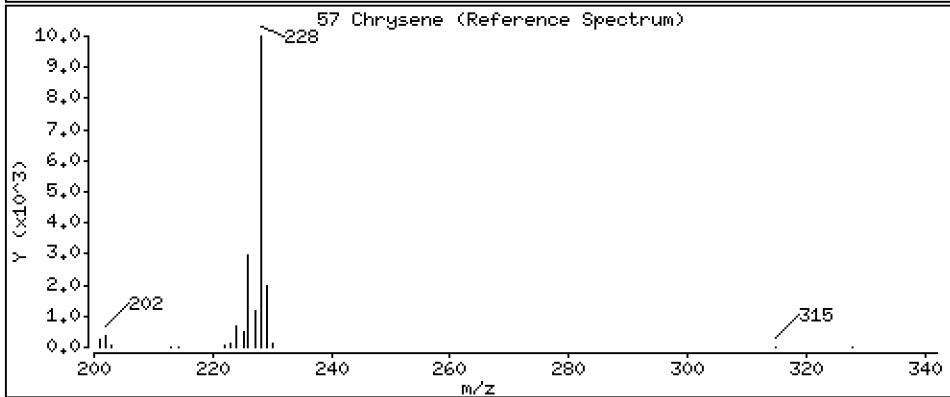
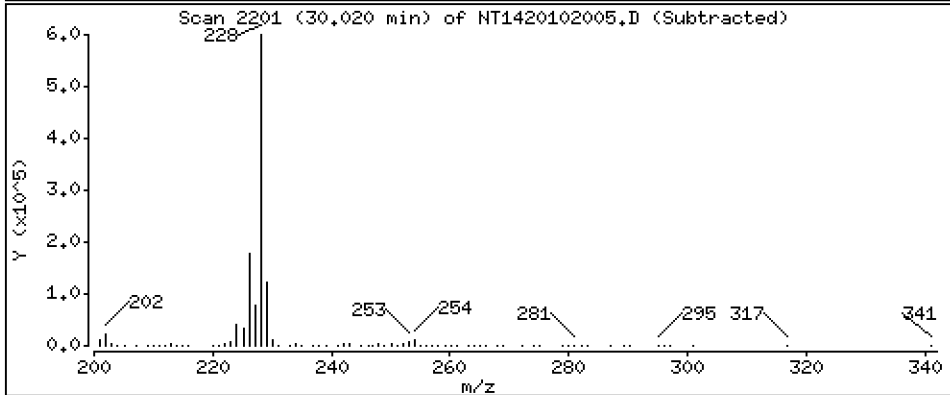
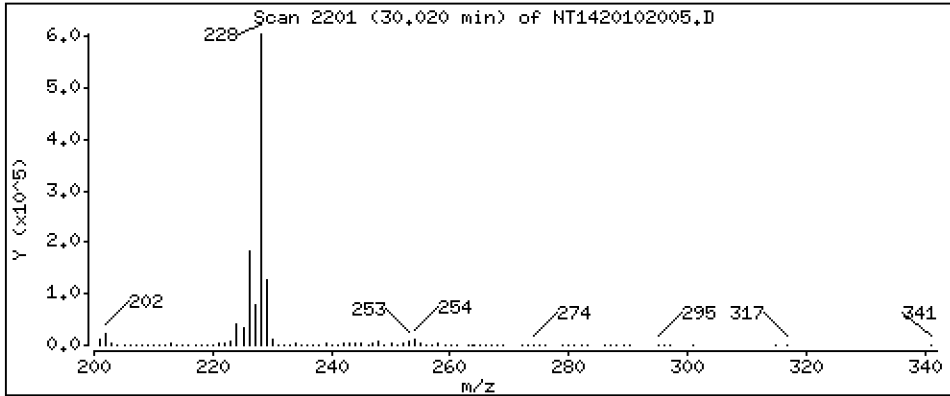
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 40,77 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

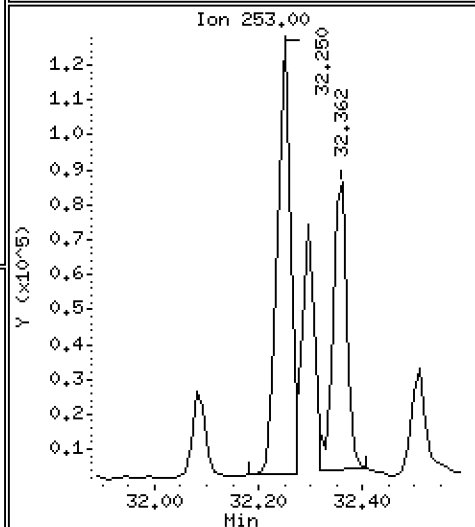
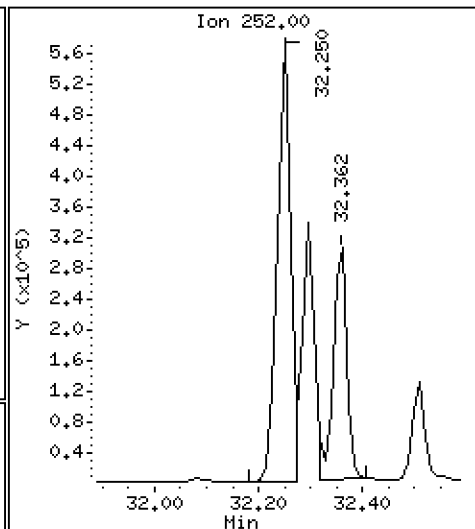
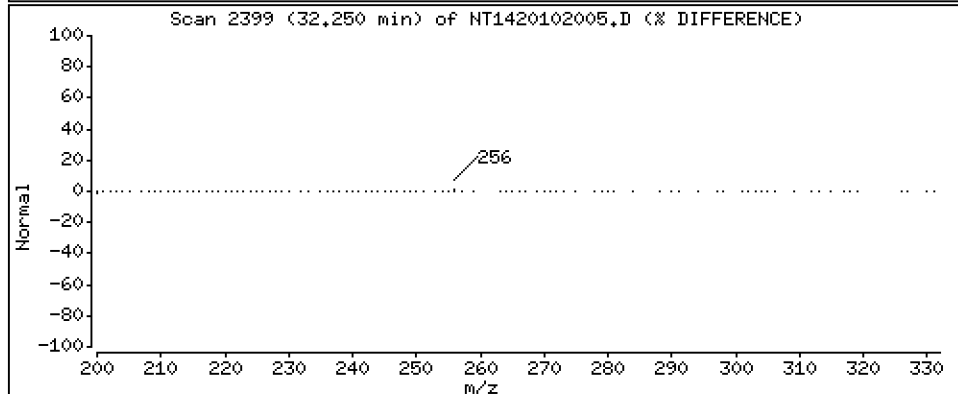
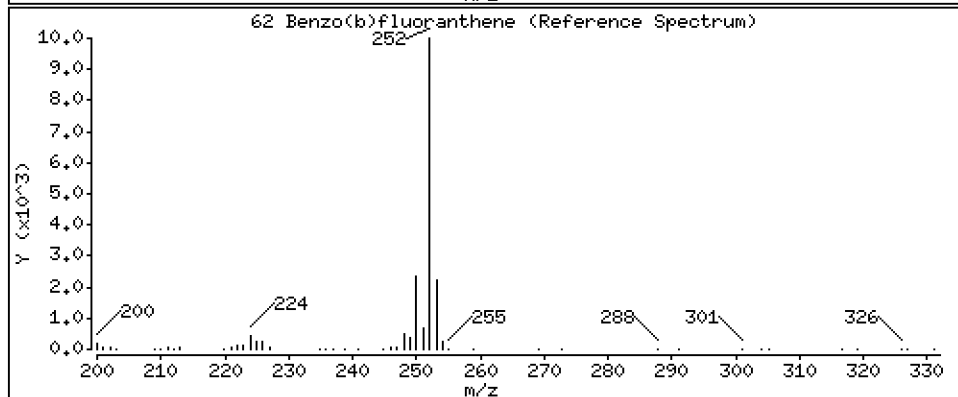
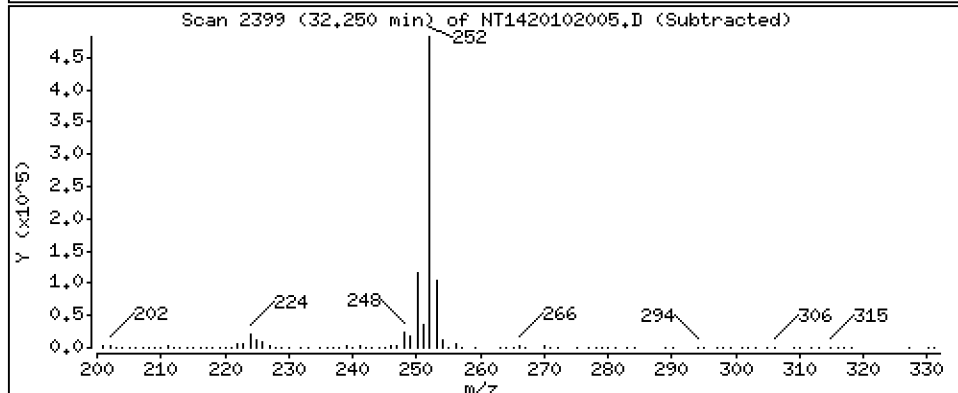
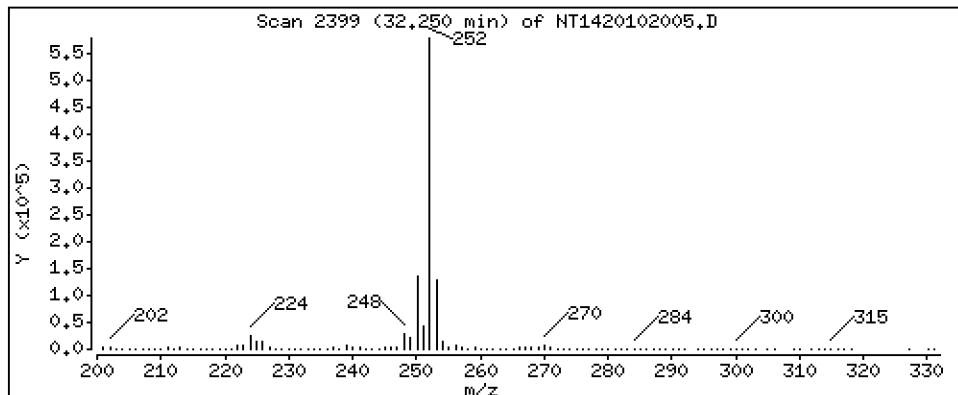
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 31,09 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

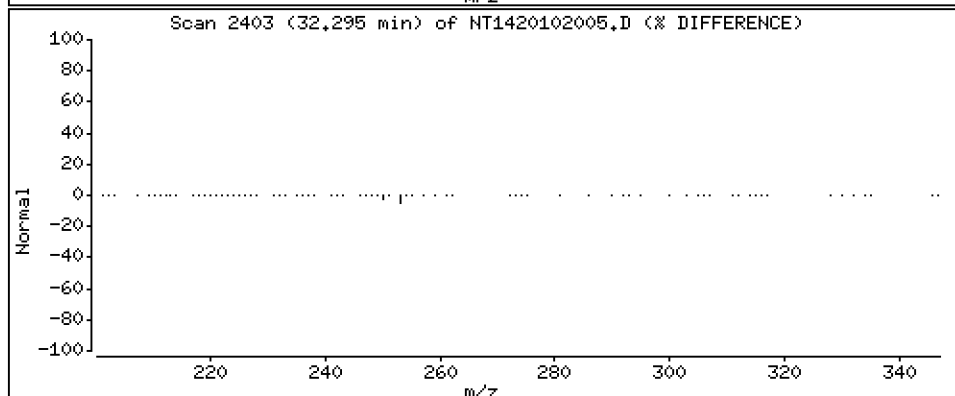
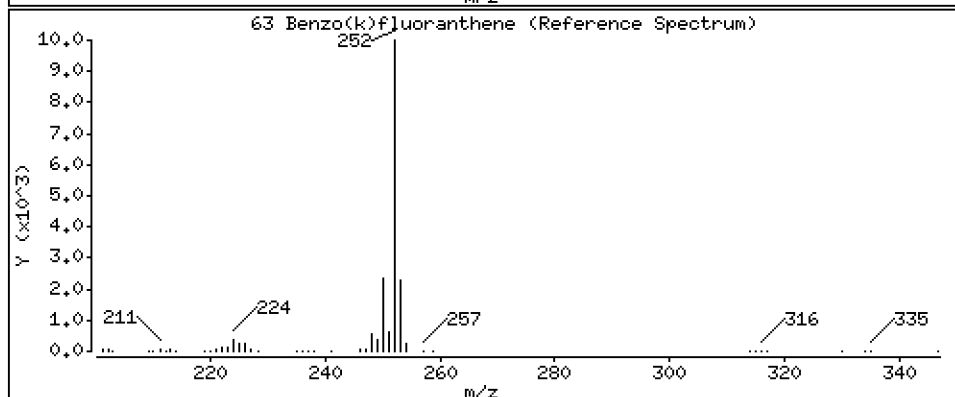
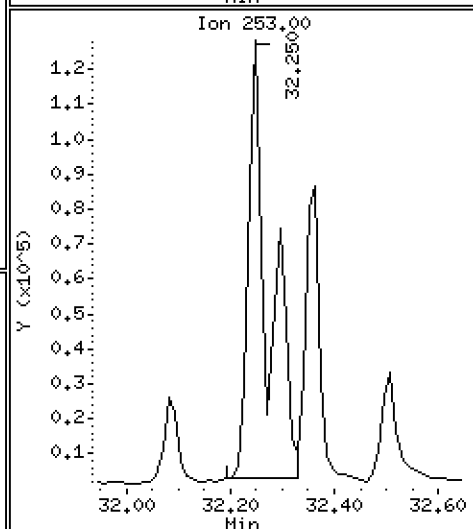
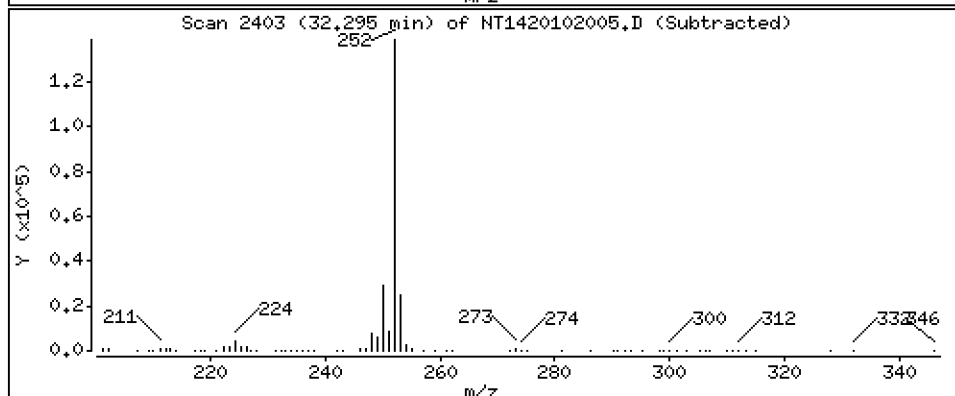
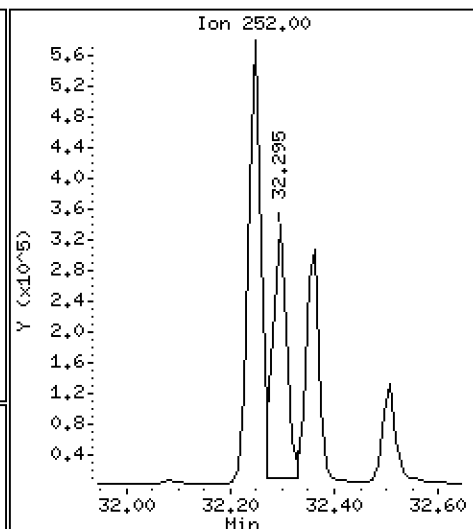
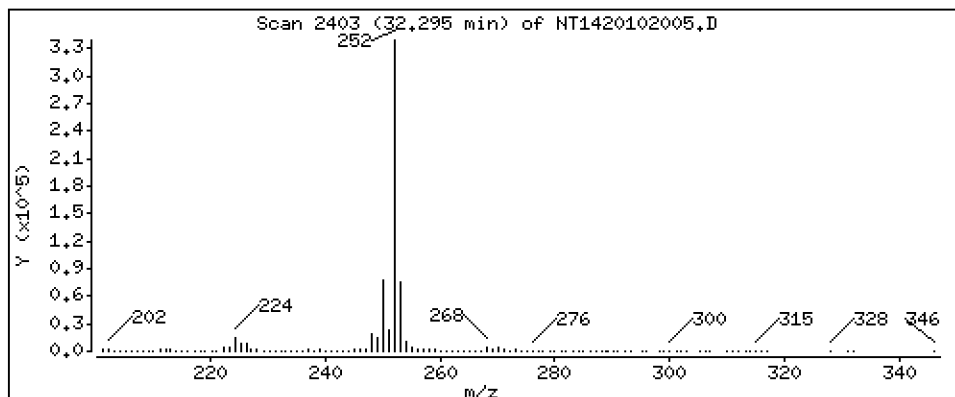
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 17,82 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

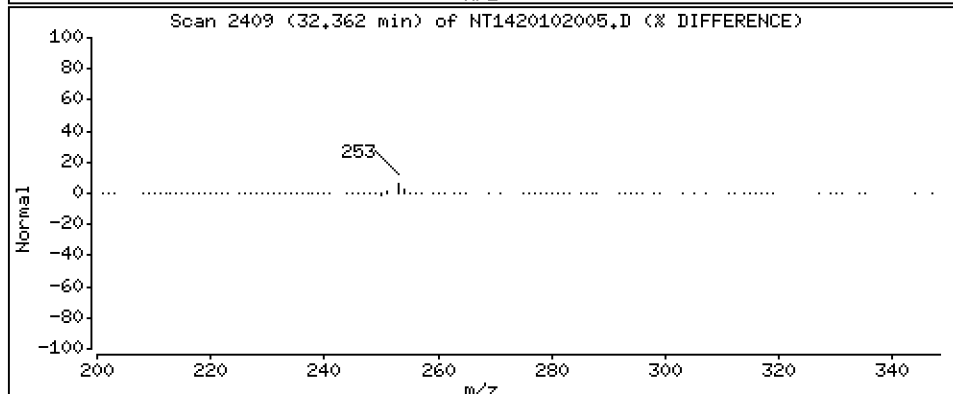
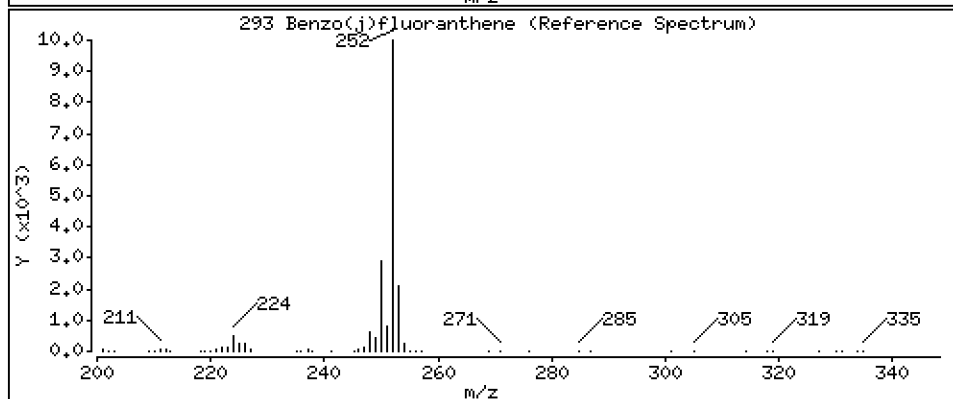
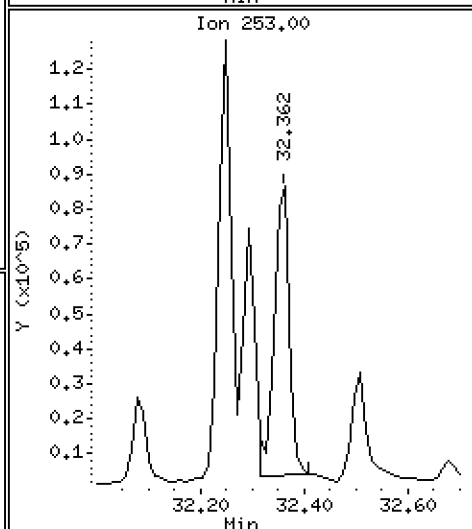
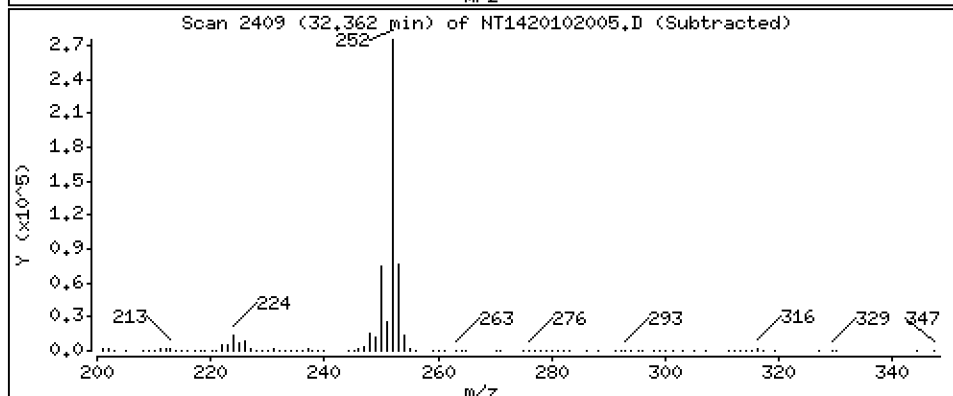
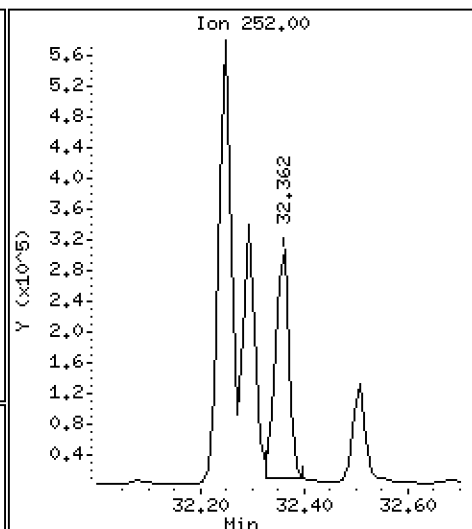
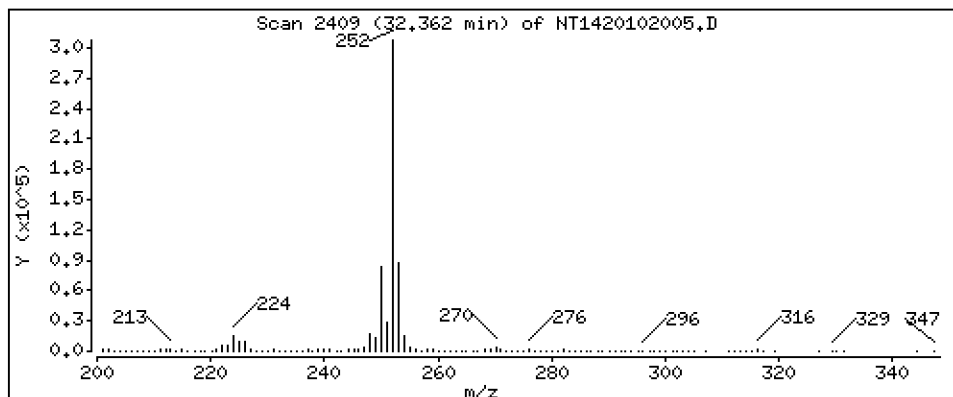
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

293 Benzo(j)fluoranthene

Concentration: 18,20 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

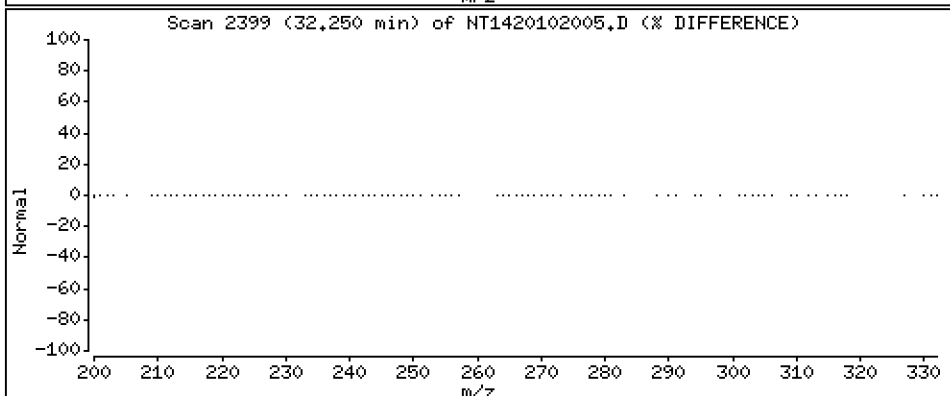
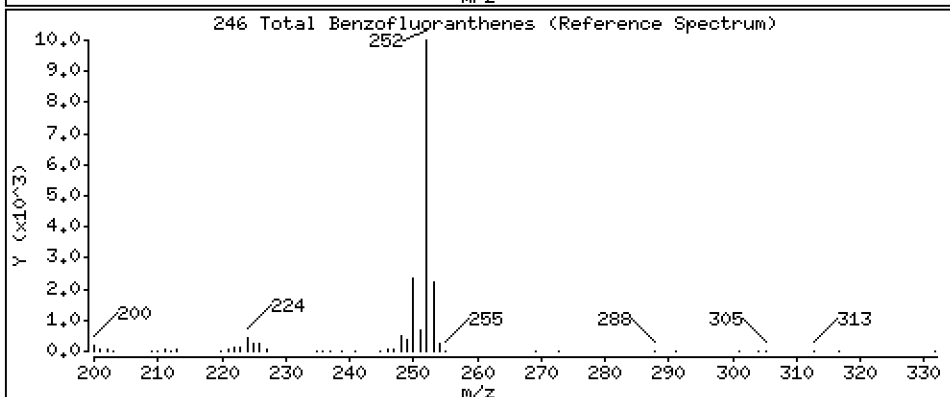
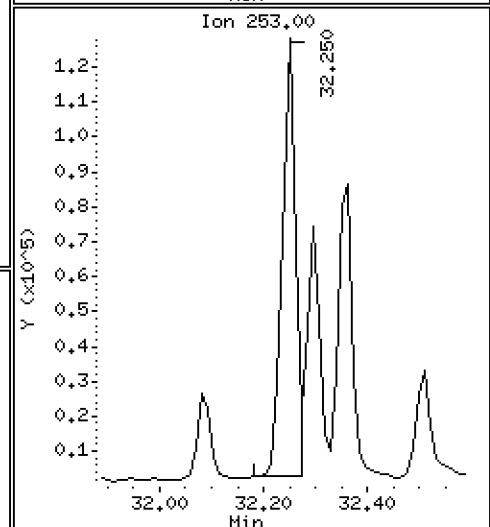
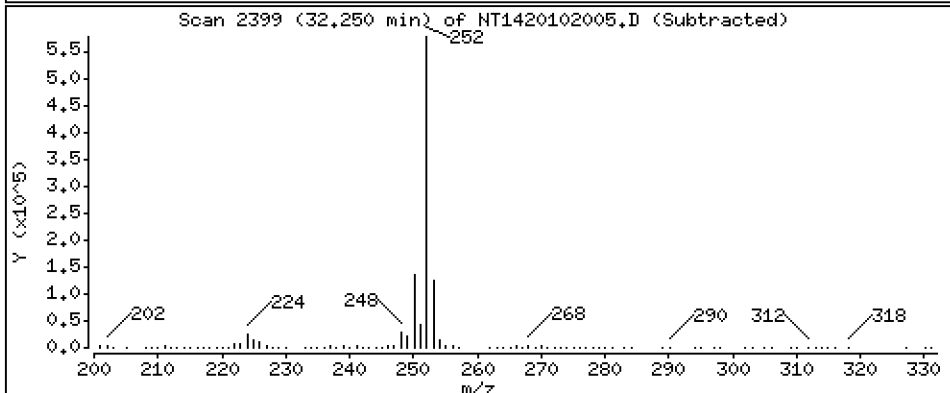
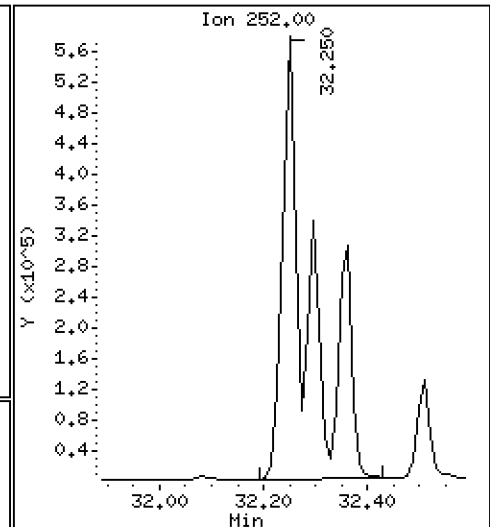
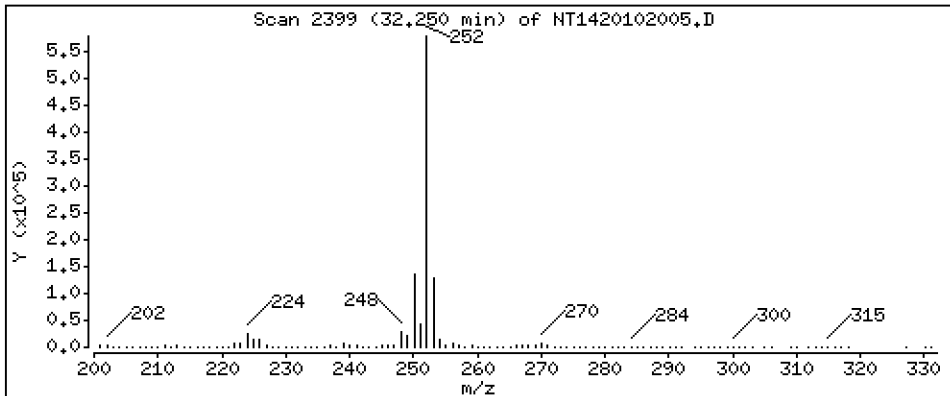
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 68,90 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

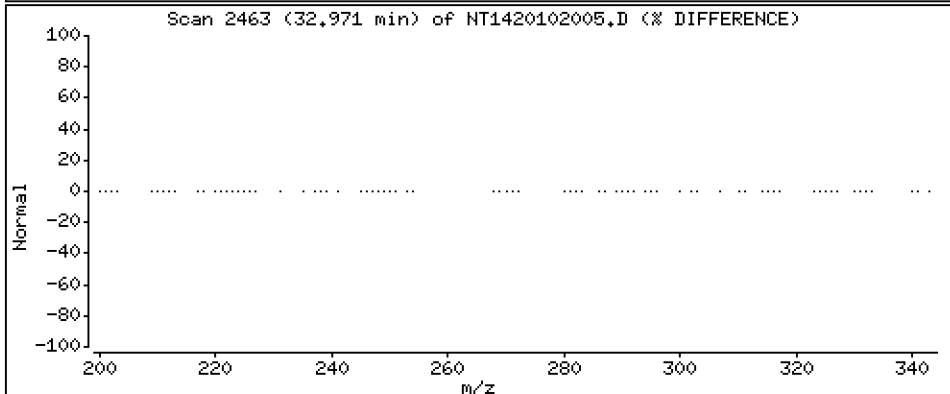
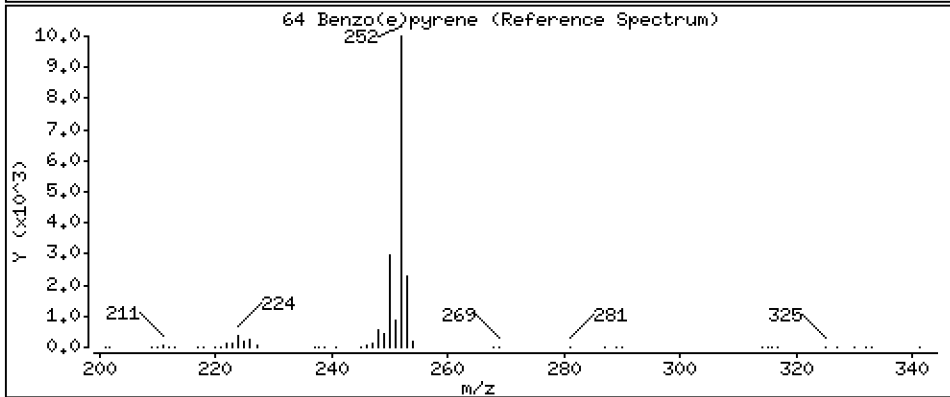
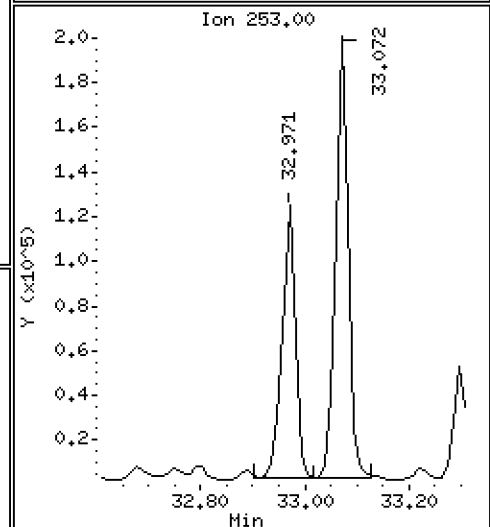
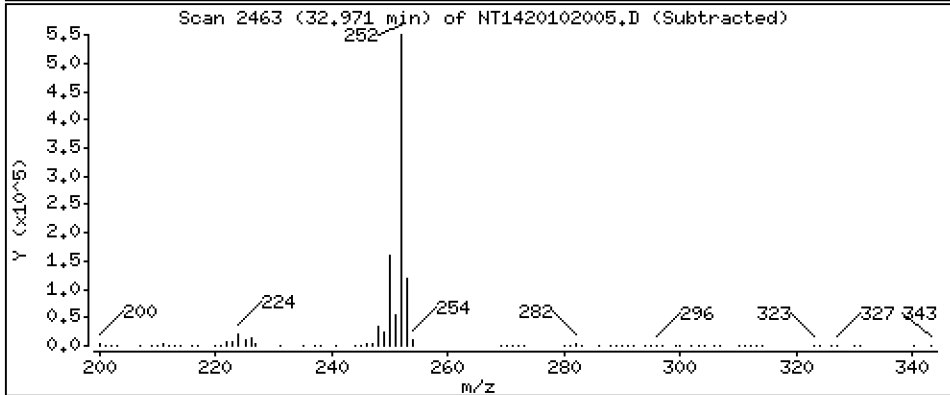
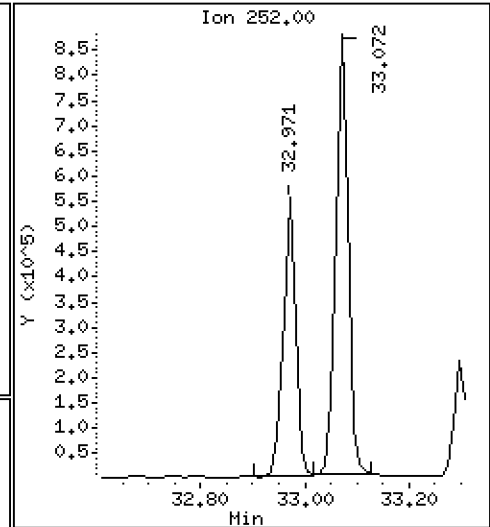
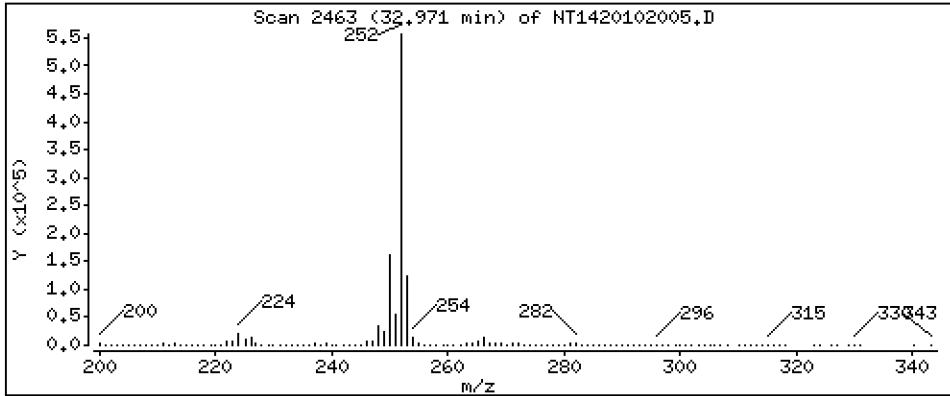
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

64 Benzo(e)pyrene

Concentration: 30,11 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

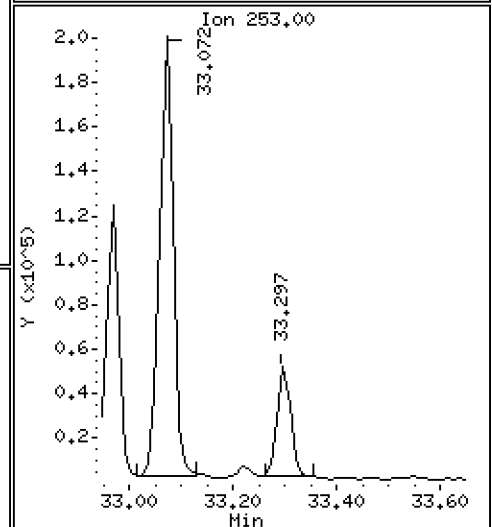
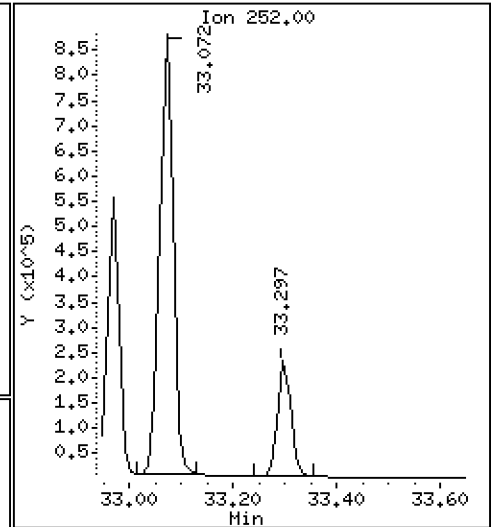
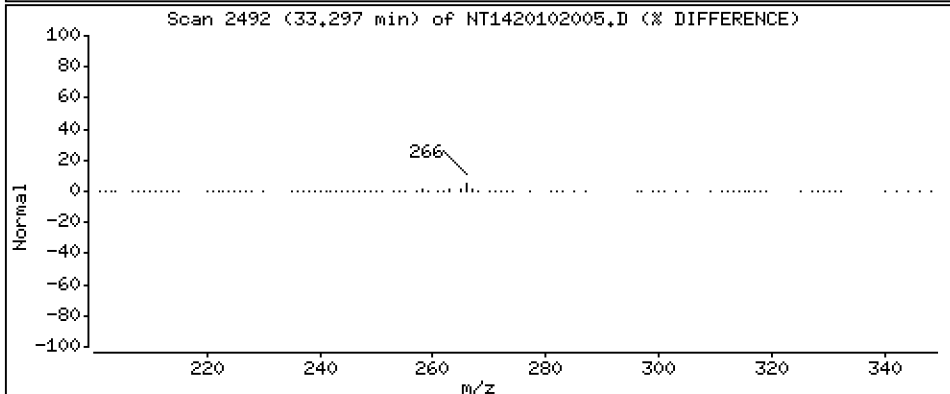
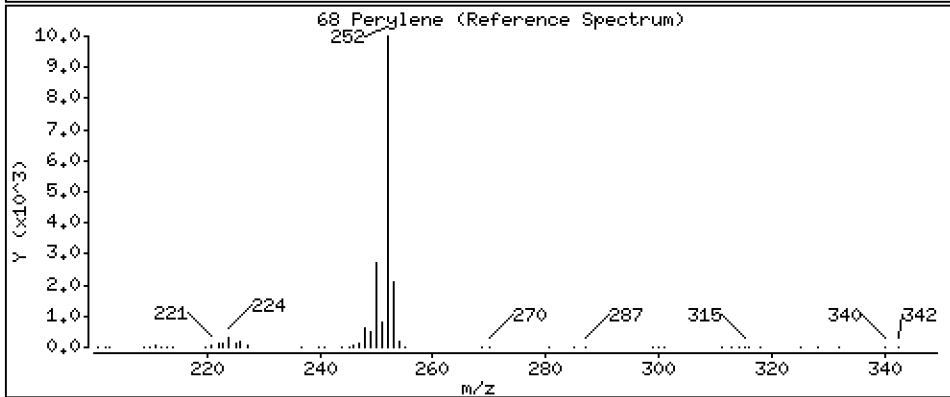
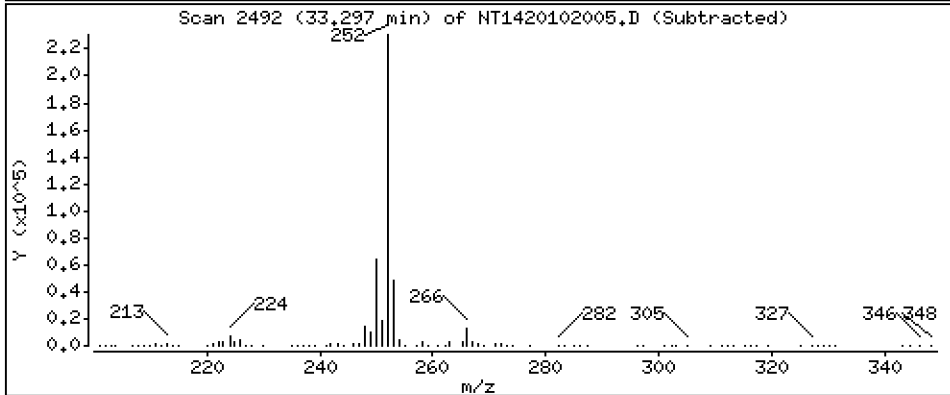
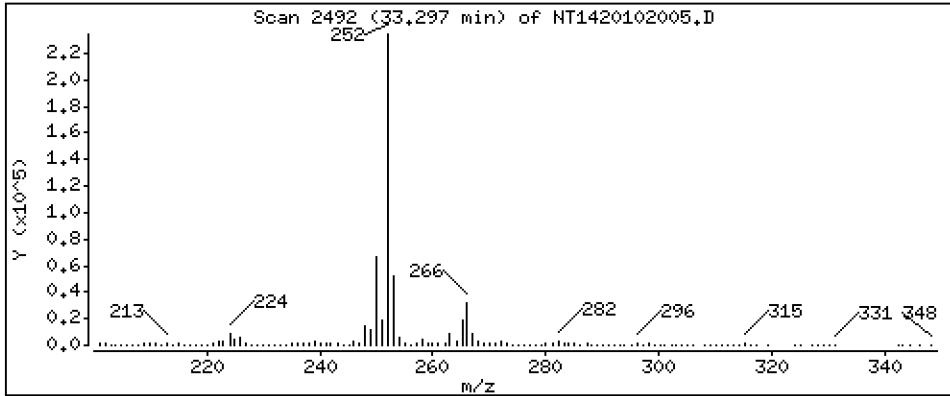
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

68 Perylene

Concentration: 12,86 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

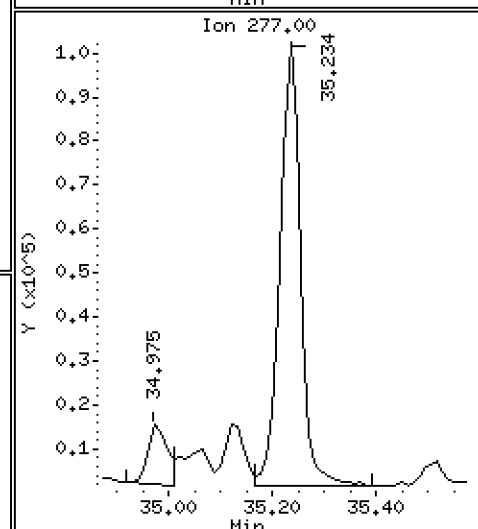
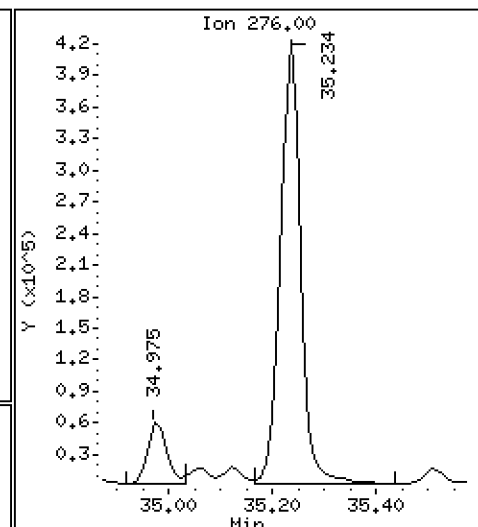
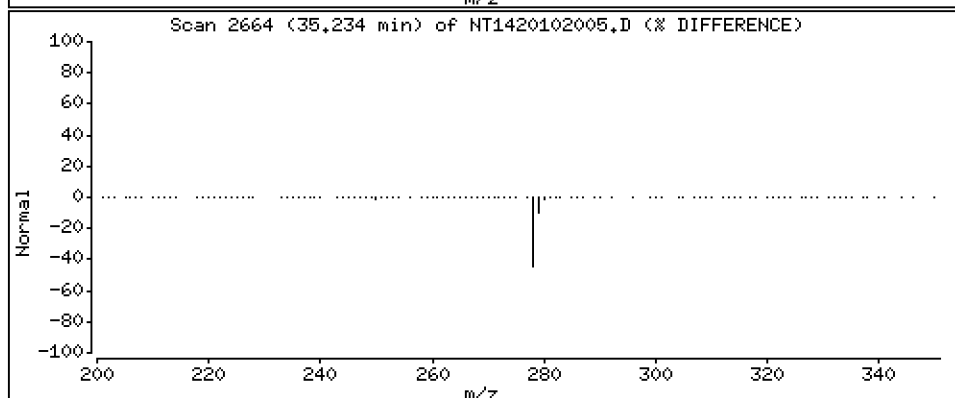
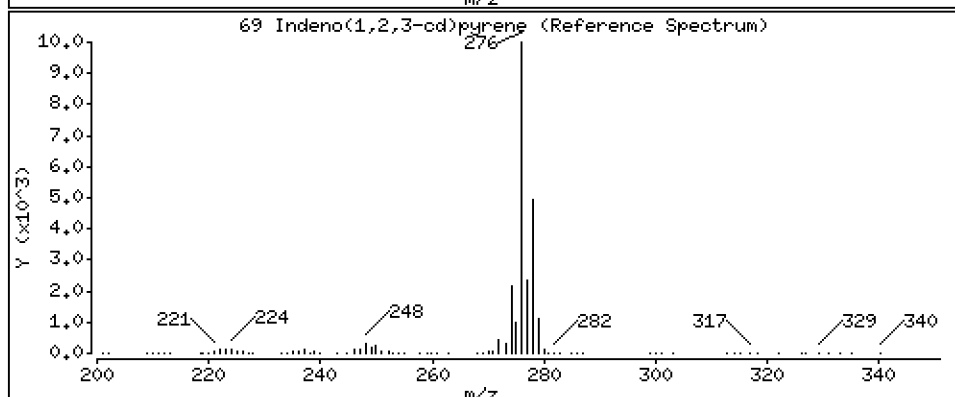
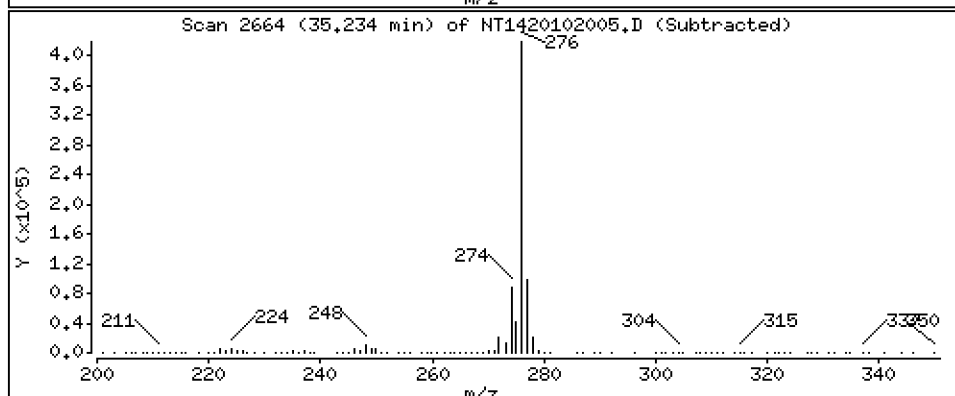
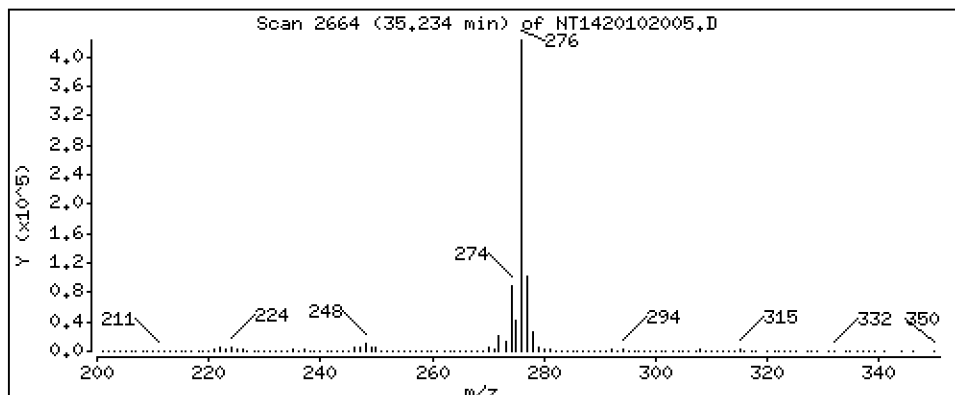
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 30,96 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

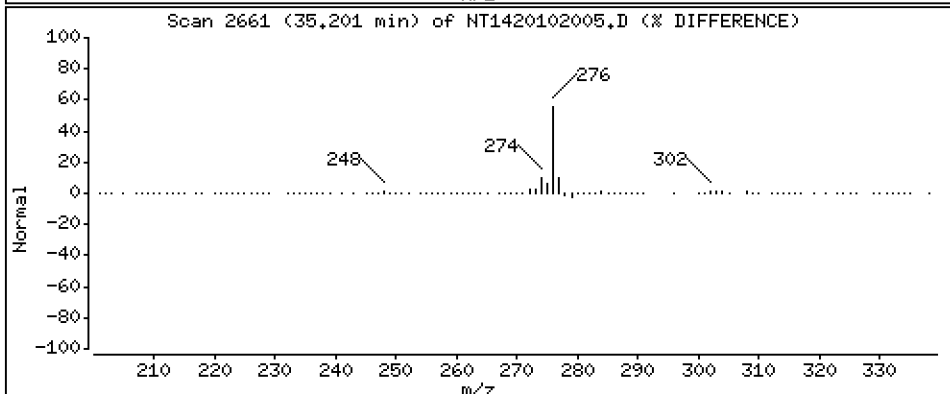
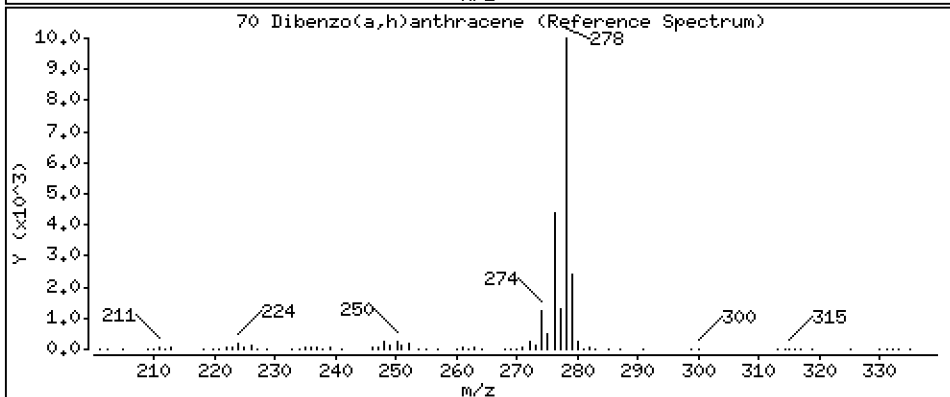
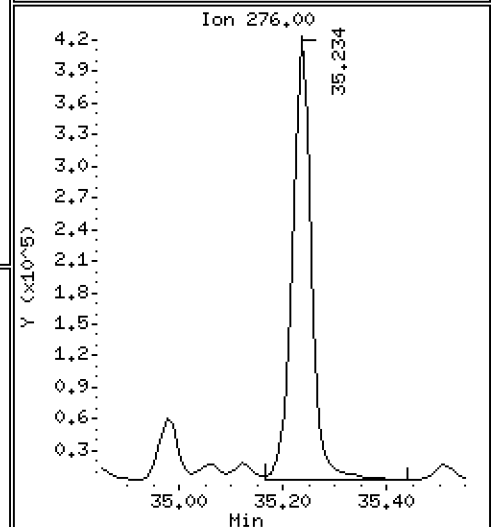
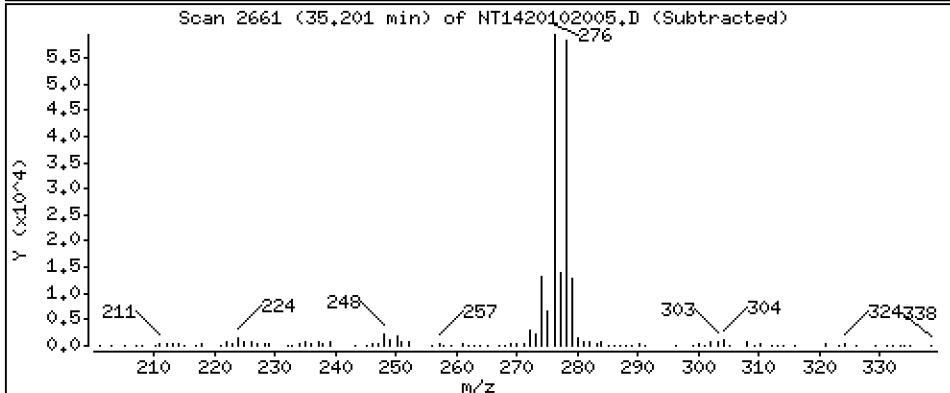
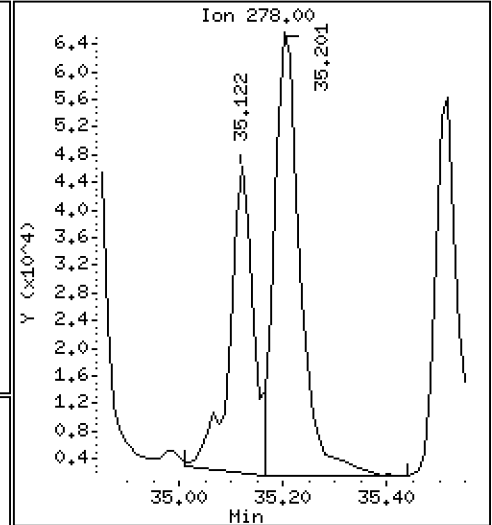
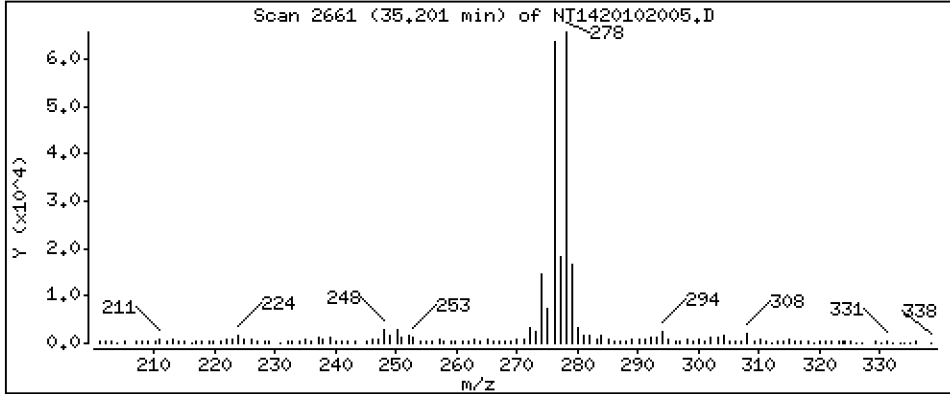
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 7,031 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

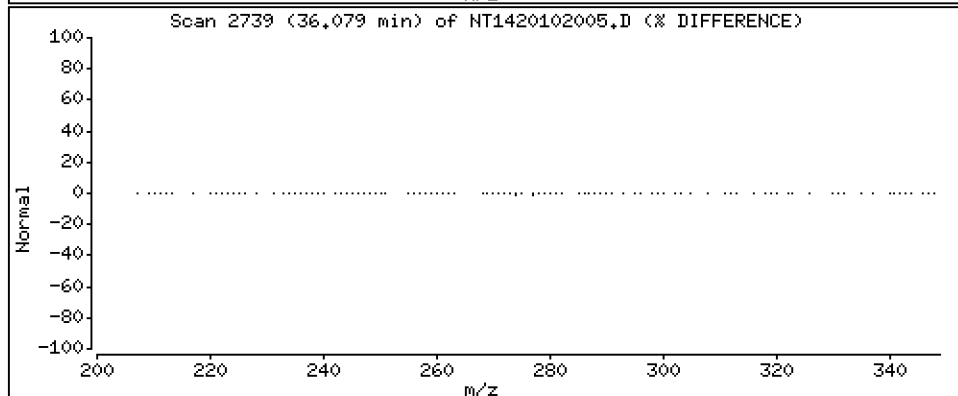
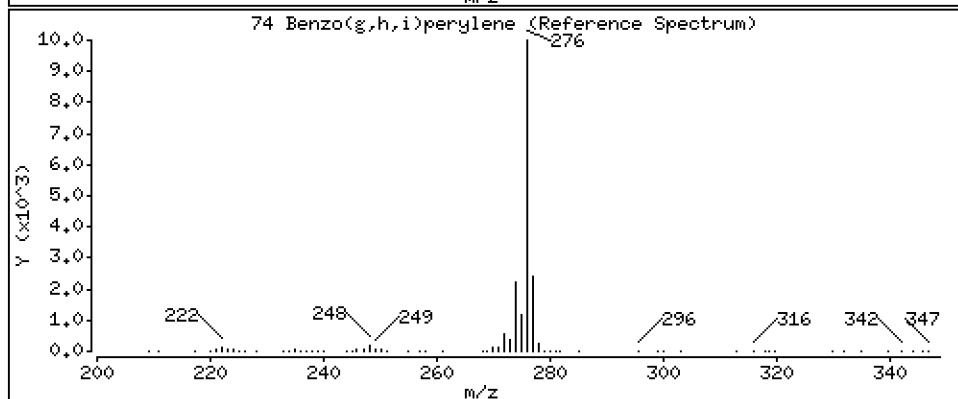
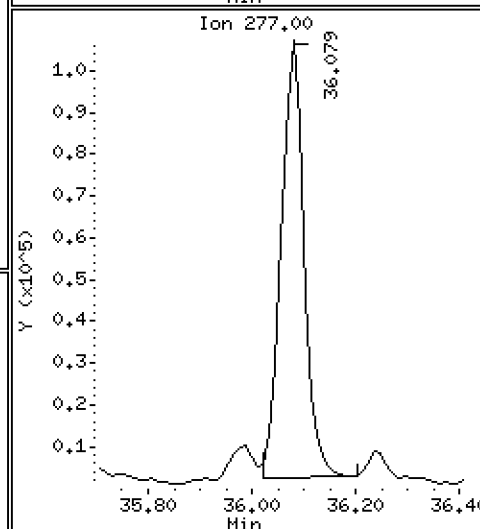
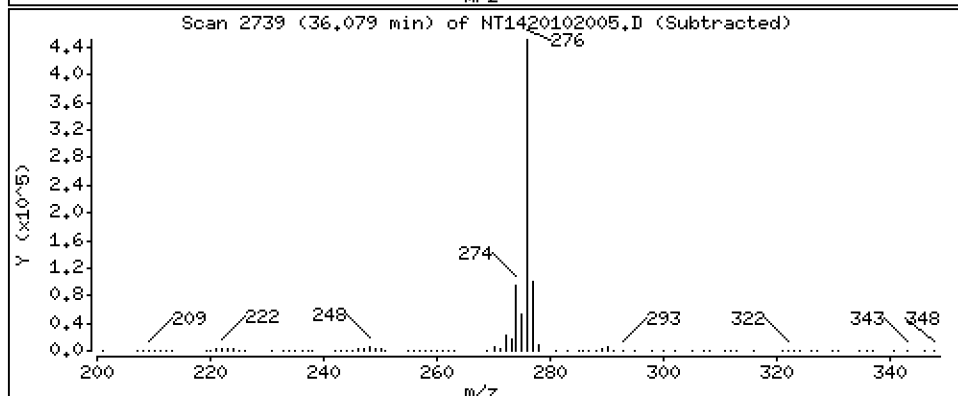
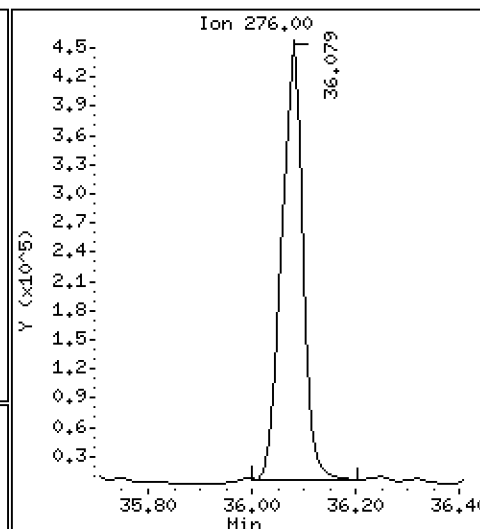
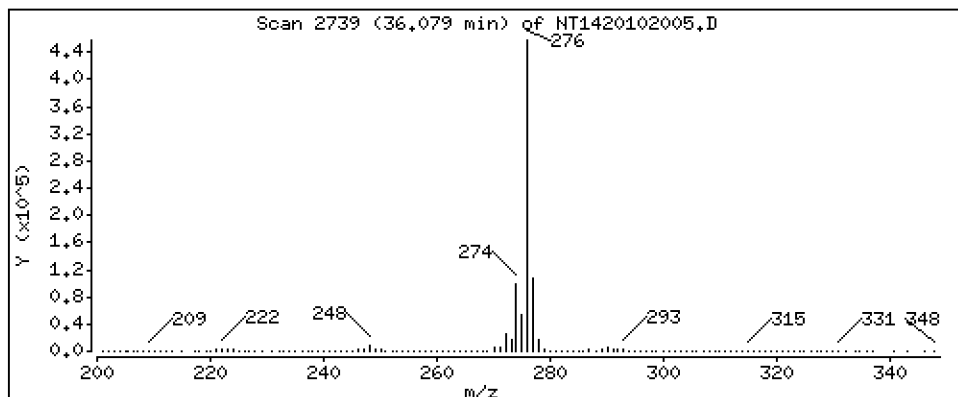
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 40,34 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201020.b\NT1420102005.D
 Lab Smp Id: 20J0121-01
 Inj Date : 20-OCT-2020 12:35
 Operator : VTS
 Smp Info : 20J0121-01,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Meth Date : 20-Oct-2020 11:14 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 5
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	====		====	=====	=====	=====	=====	=====
1 trans-Decalin	138		Compound Not Detected.					
2 cis-Decalin	138		Compound Not Detected.					
\$ 6 Naphthalene-d8	136		11.630	11.630	(0.625)	28797	0.28426	1.421 (R)
7 Naphthalene	128		11.696	11.696	(0.628)	74923	0.73923	3.696
12 Benzo(b)thiophene	134		12.146	12.146	(0.652)	5090	0.05977	0.2988
16 2-Methylnaphthalene	141		13.531	13.531	(0.727)	22493	0.36406	1.820
17 1-methylnaphthalene	141		13.982	13.981	(0.751)	13571	0.21330	1.066
18 Biphenyl	154		15.168	15.168	(0.815)	9806	0.10546	0.5273
19 2,6-Dimethylnaphthalene	156		15.245	15.245	(0.819)	10767	0.15861	0.7930 (M)
20 Acenaphthylene	152		16.806	16.806	(0.903)	27147	0.24388	1.219
\$ 21 Acenaphthene-d10	164		17.092	17.092	(0.918)	20926	0.34399	1.720 (R)
22 Acenaphthene	153		17.202	17.201	(0.924)	113010	1.54979	7.749
23 Dibenzofuran	168		17.575	17.575	(0.944)	19960	0.18868	0.9434
24 1,6,7-Trimethylnaphthalene	170		17.795	17.806	(0.956)	8882	0.12905	0.6453
* 25 Fluorene-d10	176		18.621	18.621	(1.000)	248281	2.00000	
26 Fluorene	166		18.723	18.723	(1.005)	62411	0.75679	3.784
30 Dibenzothiophene	184		21.626	21.626	(1.161)	62813	0.52923	2.646
\$ 35 Phenanthrene-d10	188		21.941	21.941	(0.995)	51574	0.48282	2.414 (R)
36 Phenanthrene	178		22.018	22.018	(0.999)	1042572	8.44136	42.21
* 250 Anthracene-d10	188		22.051	22.051	(1.000)	223022	2.00000	
37 Anthracene	178		22.117	22.116	(1.003)	277287	2.28443	11.42
42 Carbazole	167		23.403	23.403	(1.061)	107084	1.01874	5.094
43 1-Methylphenanthrene	192		23.853	23.853	(1.082)	73207	0.80754	4.038
44 Fluoranthene	202		25.833	25.821	(1.172)	2173024	15.9413	79.71
46 Pyrene	202		26.690	26.668	(1.210)	2476986	17.2199	86.10
51 Naphthobenzothiophene	234		29.234	29.234	(1.326)	136287	1.03948	5.197
55 Benzo(a)anthracene	228		29.828	29.816	(0.907)	1034676	7.18231	35.91
\$ 56 Chrysene-d12	240		29.952	29.940	(0.910)	42399	0.37266	1.863 (R)
57 Chrysene	228		30.019	30.019	(0.912)	1167511	8.15406	40.77
62 Benzo(b)fluoranthene	252		32.249	32.238	(0.980)	1011476	6.21841	31.09
63 Benzo(k)fluoranthene	252		32.294	32.294	(0.982)	584385	3.56453	17.82 (M)
293 Benzo(j)fluoranthene	252		32.362	32.351	(0.984)	521775	3.64094	18.20 (M)
246 Total Benzofluoranthenes	252		32.249	32.238	(0.980)	2079814	13.7807	68.90 (M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264		32.903	32.902	(1.000)	333697	2.00000	
64 Benzo(e)pyrene	252		32.970	32.959	(1.002)	896812	6.02173	30.11
66 Benzo(a)pyrene	252		33.071	33.060	(1.005)	1470585	10.4511	52.26
\$ 67 Perylene-d12	264		33.240	33.240	(1.010)	52064	0.37732	1.887 (R)
68 Perylene	252		33.297	33.297	(1.012)	380251	2.57281	12.86
69 Indeno(1,2,3-cd)pyrene	276		35.234	35.223	(1.071)	1078929	6.19193	30.96
70 Dibenzo(a,h)anthracene	278		35.200	35.200	(1.070)	216464	1.40611	7.031
74 Benzo(g,h,i)perylene	276		36.079	36.056	(1.097)	1234941	8.06744	40.34

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 20-OCT-2020
Lab File ID: NT1420102005.D Calibration Time: 09:59
Lab Smp Id: 20J0121-01
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	215838	107919	431676	248281	15.03
250 Anthracene-d10	194812	97406	389624	223022	14.48
251 Benzo(e)pyrene-d1	284140	142070	568280	333697	17.44

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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 - NT1420102005.D

Lab ID: 20J0121-01

nt14.i, 20201020.b\ALKYLPNA.m, 20-OCT-2020 12:35

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

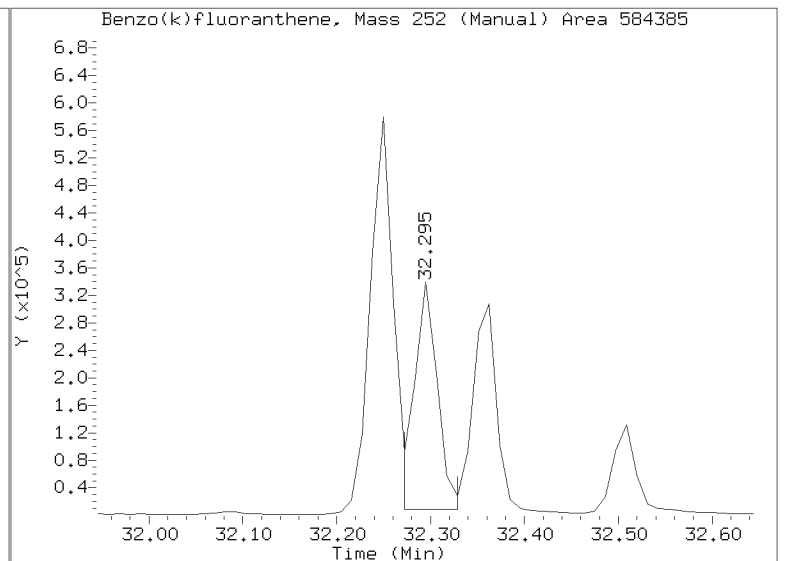
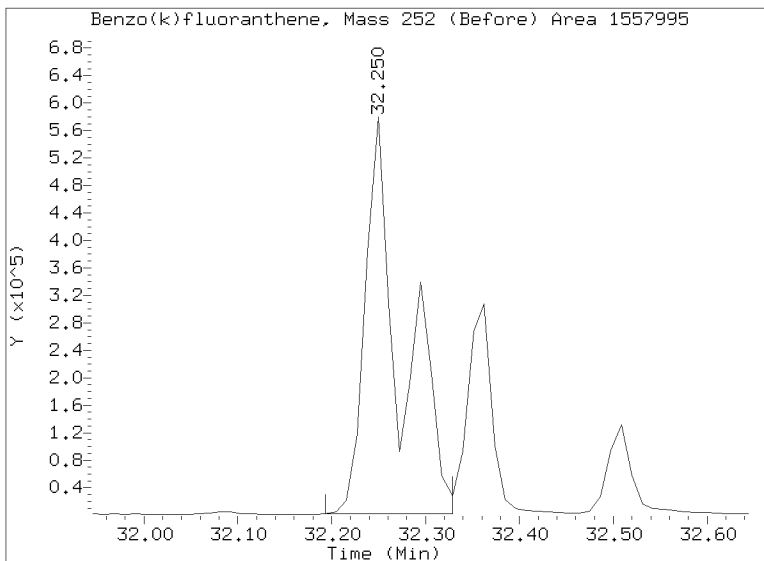
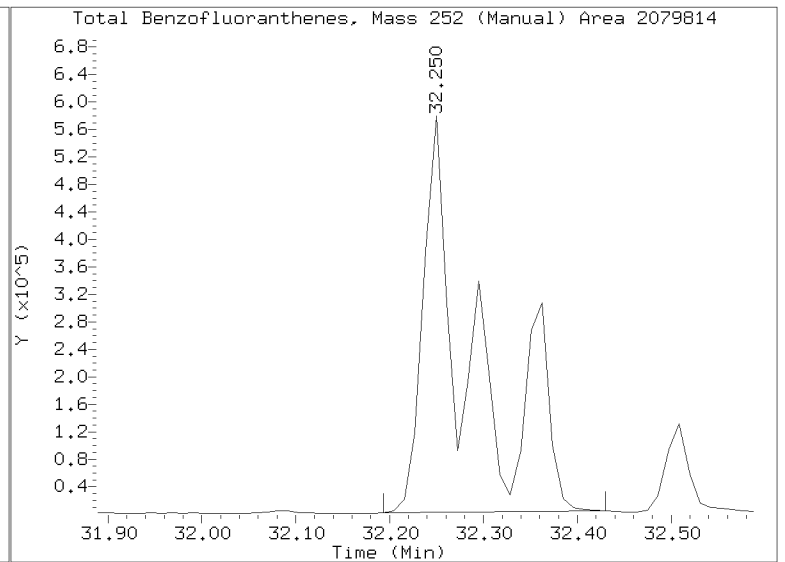
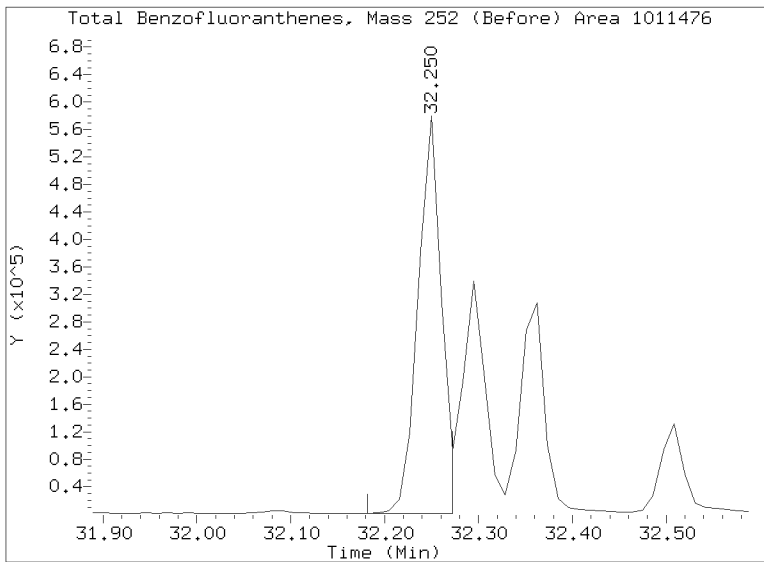
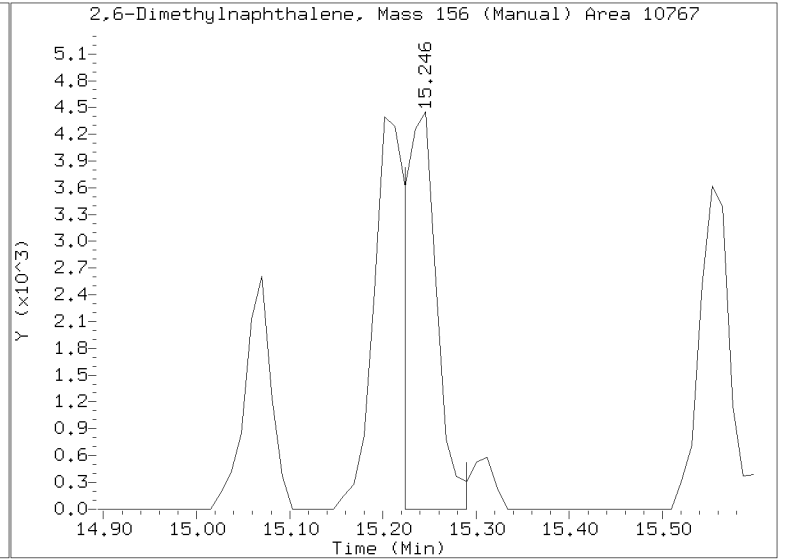
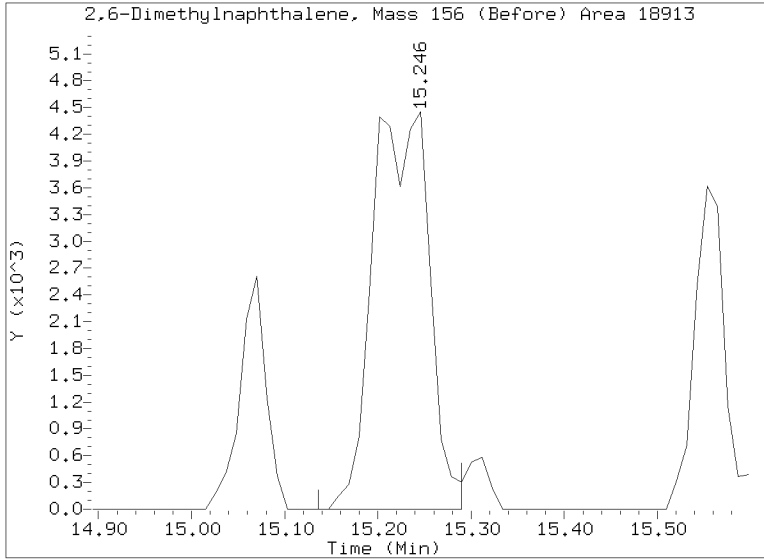
RRT check based on Ccal File: NT1420102002.D

On Column LOD for nt14.i, 20201020.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102005.D
Injection Date: 20-OCT-2020 12:35
Lab ID:20J0121-01 Client ID:
Report Date: 10/21/2020 14:21



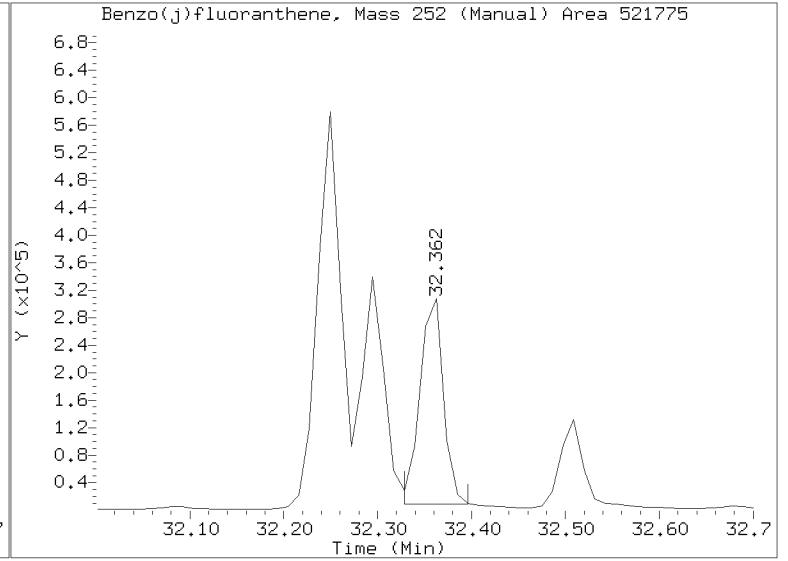
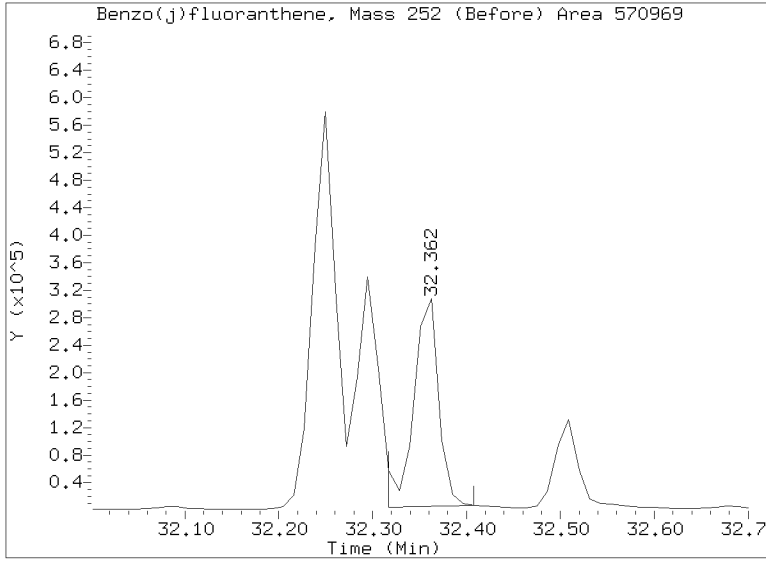
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102005.D

Injection Date: 20-OCT-2020 12:35

Lab ID:20J0121-01 Client ID:

Report Date: 10/21/2020 14:21





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102005S.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/20/20 12:35
Batch: BIJ0442 Sequence: SIJ0287 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DI00041
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
C1DEC	C1-Decalins	5	25.0	U	2.4	25.0
C2DEC	C2-Decalins	5	44.6	D	2.4	25.0
C3DEC	C3-Decalins	5	36.9	D	2.4	25.0
C4DEC	C4-Decalins	5	23.6	J, D	2.4	25.0
C1NAPH	C1-Naphthalenes	5	126	D	2.2	25.0
C2NAPH	C2-Naphthalenes	5	205	D	2.2	25.0
C3NAPH	C3-Naphthalenes	5	240	D	2.2	25.0
C4NAPH	C4-Naphthalenes	5	203	D	2.2	25.0
C1FLR	C1-Fluorenes	5	162	D	2.3	25.0
C2FLR	C2-Fluorenes	5	13.7	J, D	2.3	25.0
C3FLR	C3-Fluorenes	5	178	D	2.3	25.0
C1DBTPH	C1-Dibenzothiophenes	5	114	D	3.3	25.0
C2DBTPH	C2-Dibenzothiophenes	5	200	D	3.3	25.0
C3DBTPH	C3-Dibenzothiophenes	5	175	D	3.3	25.0
C4DBTPH	C4-Dibenzothiophenes	5	84.4	D	3.3	25.0
C1PHNANT	C1-Phenanthrenes/Anthracenes	5	910	D	4.7	25.0
C2PHNANT	C2-Phenanthrenes/Anthracenes	5	706	D	4.7	25.0
C3PHNANT	C3-Phenanthrenes/Anthracenes	5	443	D	4.7	25.0
C4PHNANT	C4-Phenanthrenes/Anthracenes	5	179	D	4.7	25.0
C1FLPYR	C1-Fluoranthenes/Pyrenes	5	1880	D	5.1	25.0
C2FLPYR	C2-Fluoranthenes/Pyrenes	5	814	D	5.1	25.0
C3FLPYR	C3-Fluoranthenes/Pyrenes	5	477	D	5.1	25.0
C4FLPYR	C4-Fluoranthenes/Pyrenes	5	373	D	5.1	25.0
C1BAACYR	C1-Benzo(a)anthracenes/Chrysenes	5	1430	D	3.5	25.0
C2BAACYR	C2-Benzo(a)anthracenes/Chrysenes	5	742	D	3.5	25.0
C3BAACYR	C3-Benzo(a)anthracenes/Chrysenes	5	321	D	3.5	25.0
C4BAACYR	C4-Benzo(a)anthracenes/Chrysenes	5	88.3	D	3.5	25.0
C1BZTPH	C1-Benzothiophenes	5	14.3	J, D	1.8	25.0
C2BZTPH	C2-Benzothiophenes	5	39.8	D	1.8	25.0
C3BZTPH	C3-Benzothiophenes	5	25.0	U	1.8	25.0



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102005S.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/20/20 12:35
Batch: BIJ0442 Sequence: SIJ0287 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DI00041
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
C1NPBTP	C1-Naphthobenzothiophenes	5	247	D	12.5	25.0
C2NPBTP	C2-Naphthobenzothiophenes	5	29.3	D	12.5	25.0
C3NPBTP	C3-Naphthobenzothiophenes	5	760	D	12.5	25.0
C4NPBTP	C4-Naphthobenzothiopenes	5	18.7	J, D	12.5	25.0
C1DBA	C1-Dibenzo(a)anthracenes	5	572	D	3.4	25.0
C2DBA	C2-Dibenzo(a)anthracenes	5	202	D	3.4	25.0
C3DBA	C3-Dibenzo(a)anthracenes	5	59.9	D	3.4	25.0

Data File: \\target\share\chem3\nt14.1\20201020.16\SIH.6\NT14201020055.D

Date : 20-OCT-2020 12:35

Client ID:

Sample Info: 20J0121-01.5

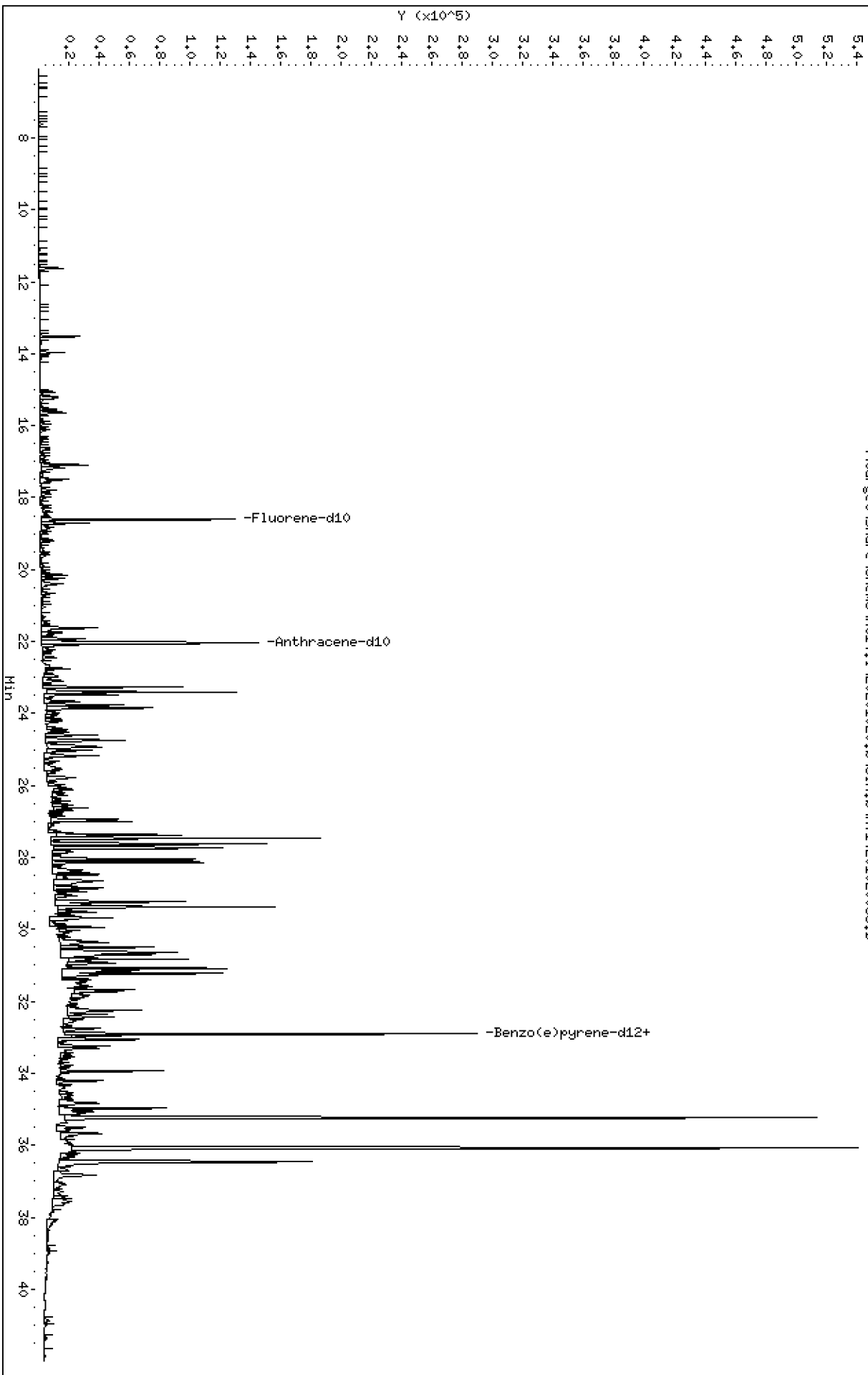
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201020.16\SIH.6\NT14201020055.D



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

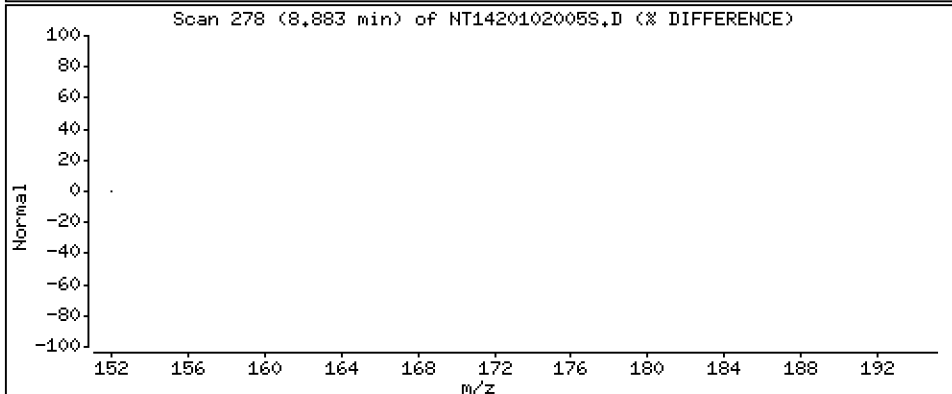
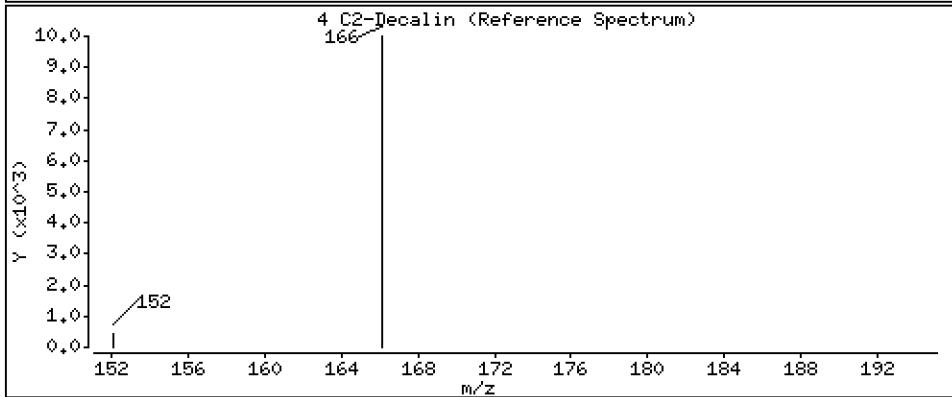
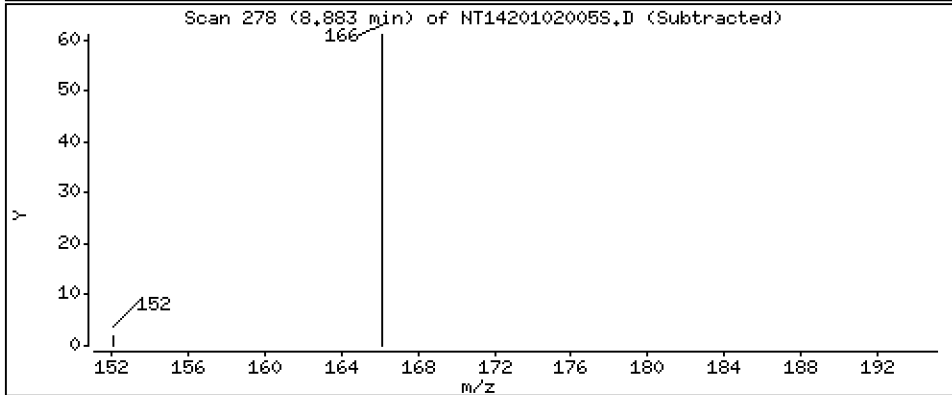
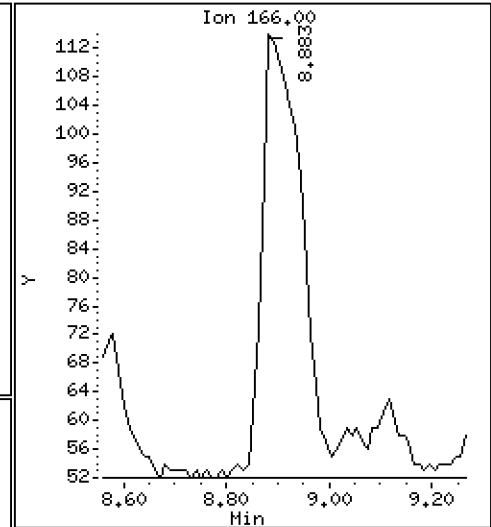
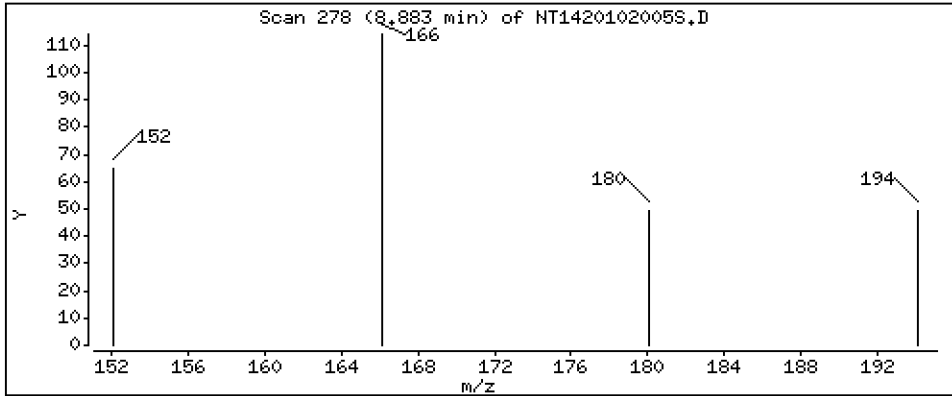
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

4 C2-Decalin

Concentration: 0,8935 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

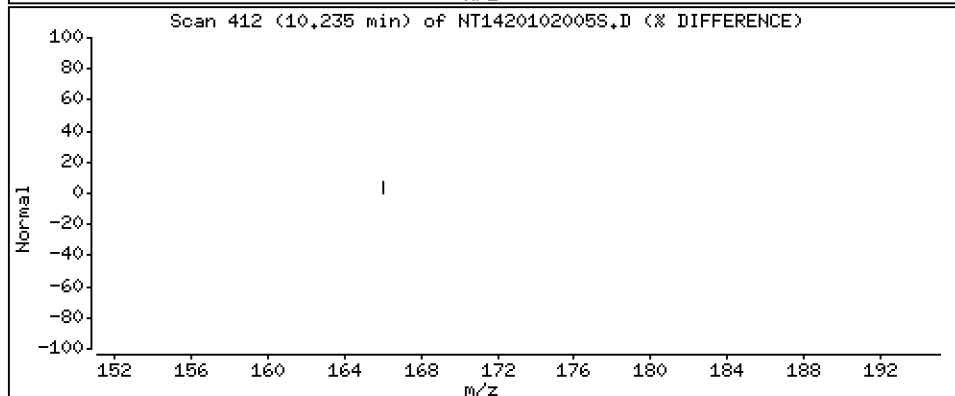
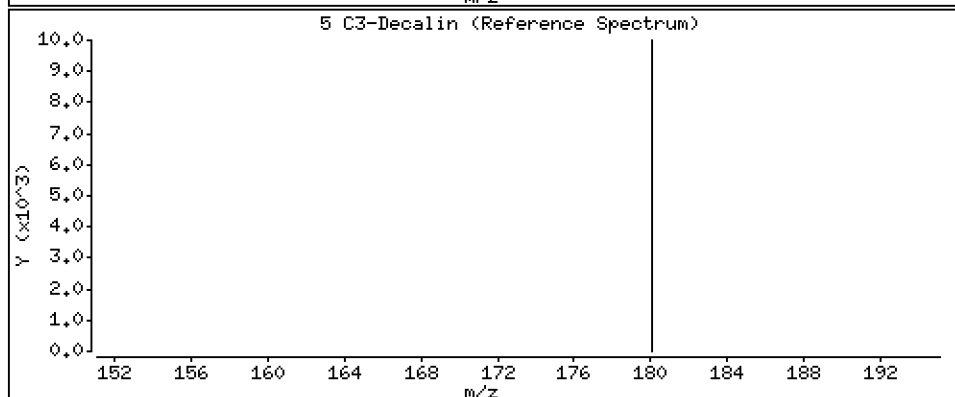
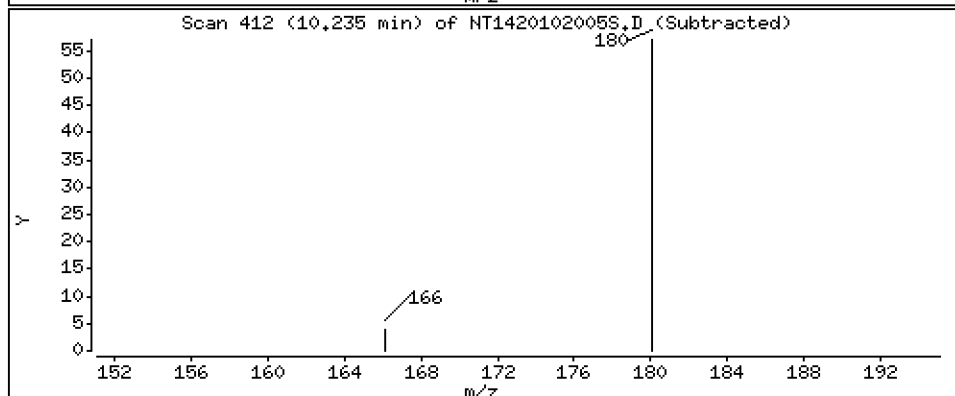
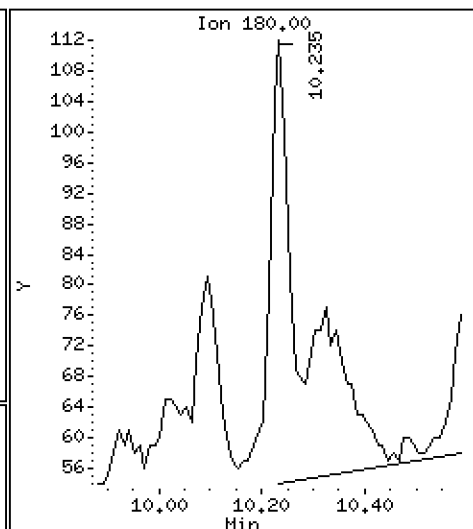
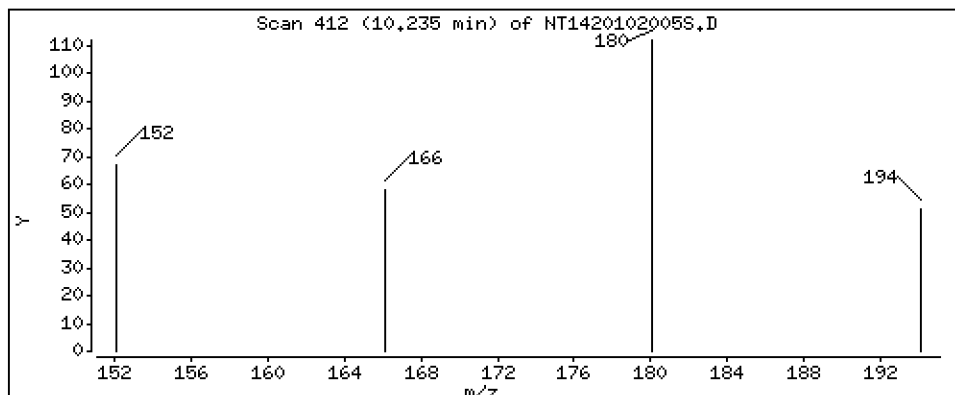
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

5 C3-Decalin

Concentration: 0,7381 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

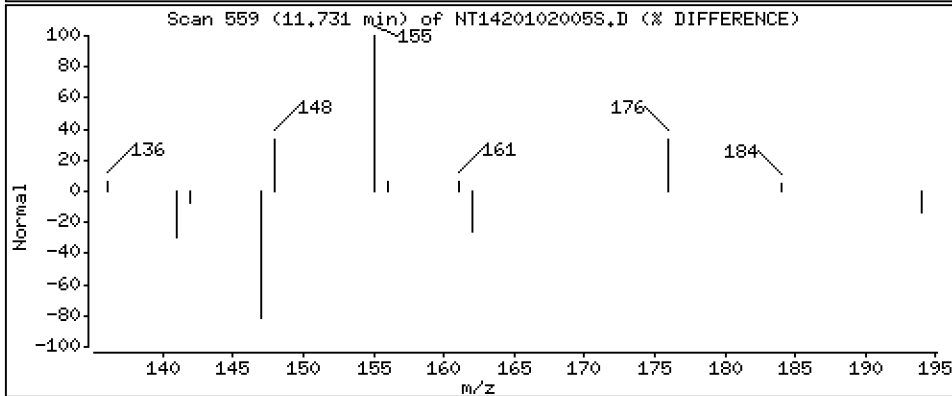
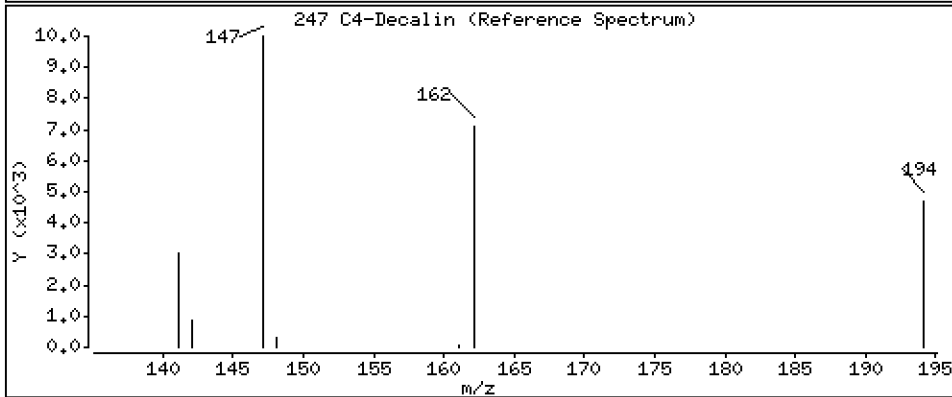
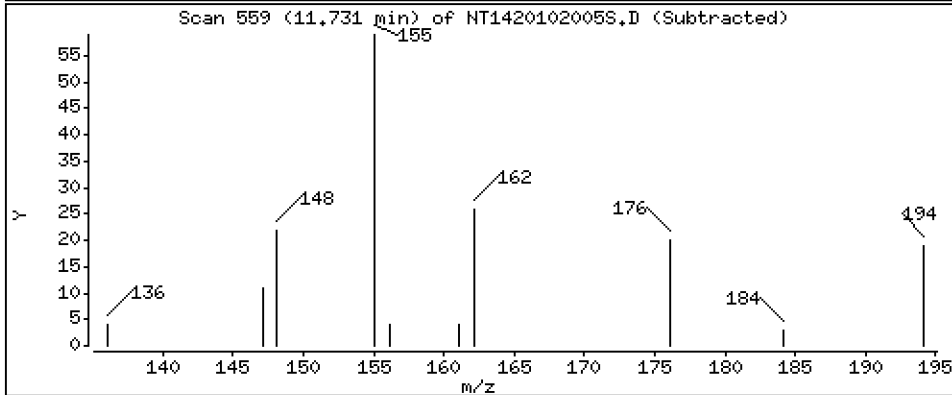
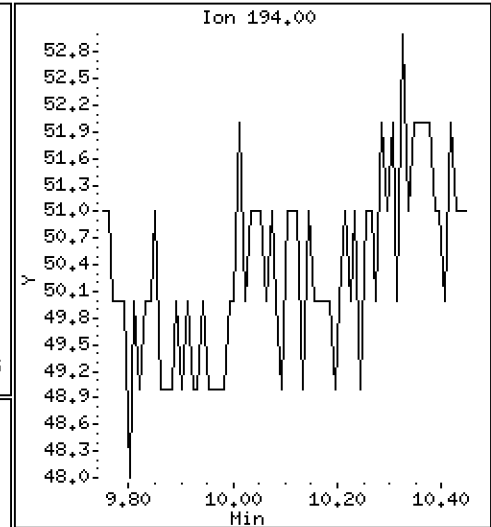
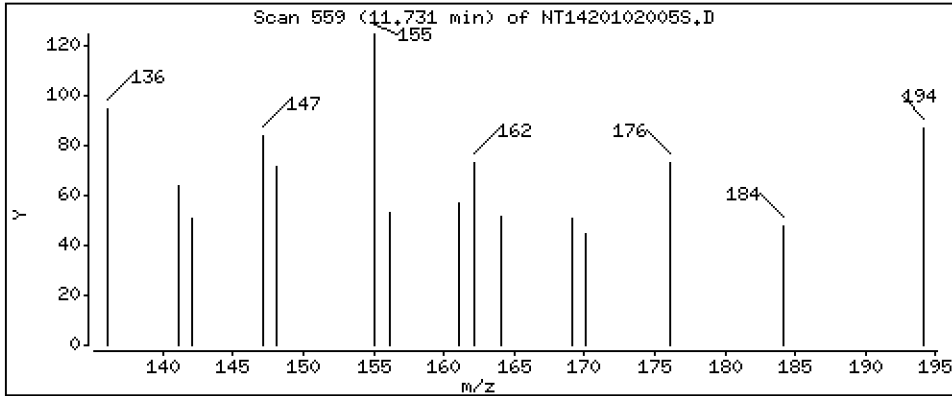
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

247 C4-Decalin

Concentration: 0,4717 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

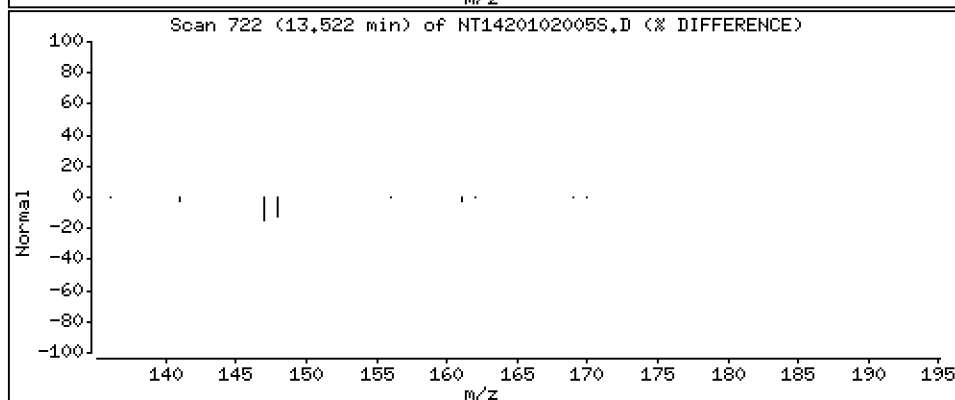
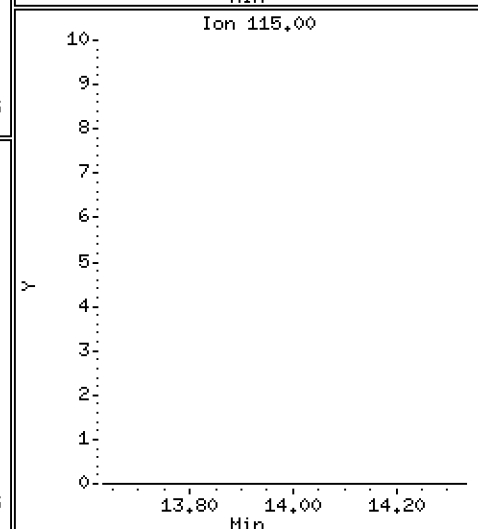
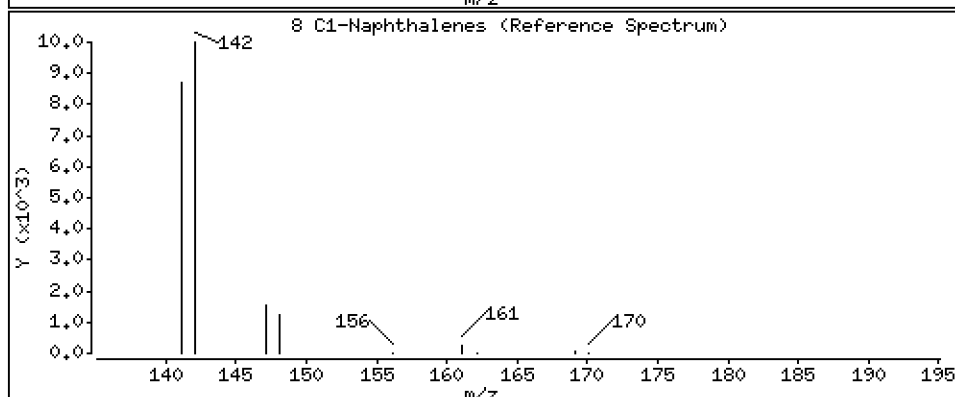
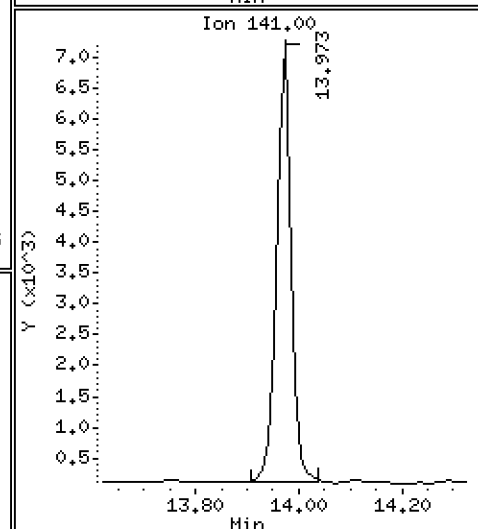
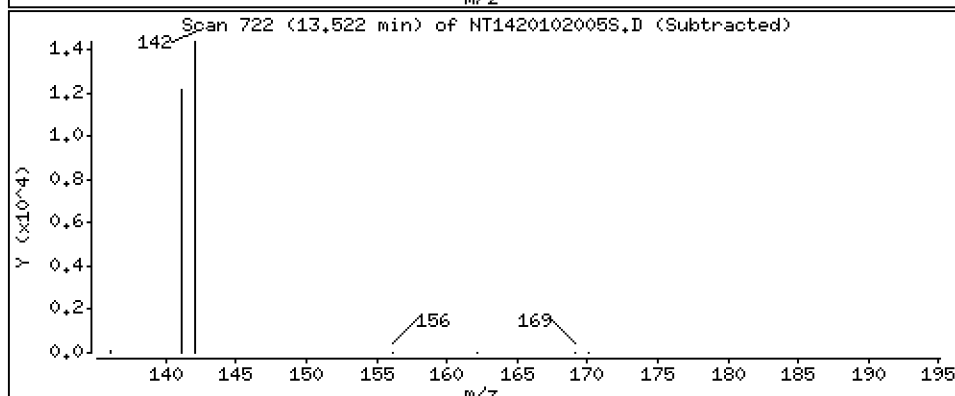
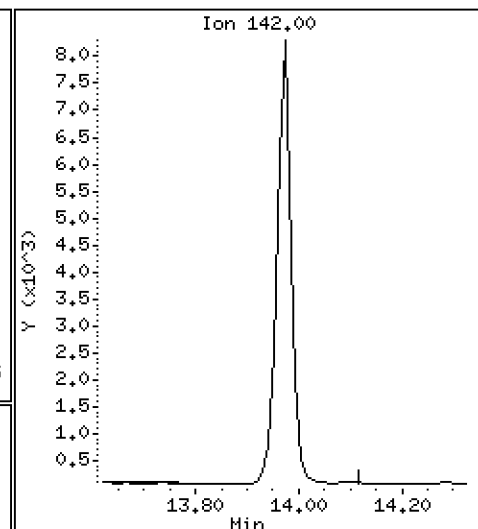
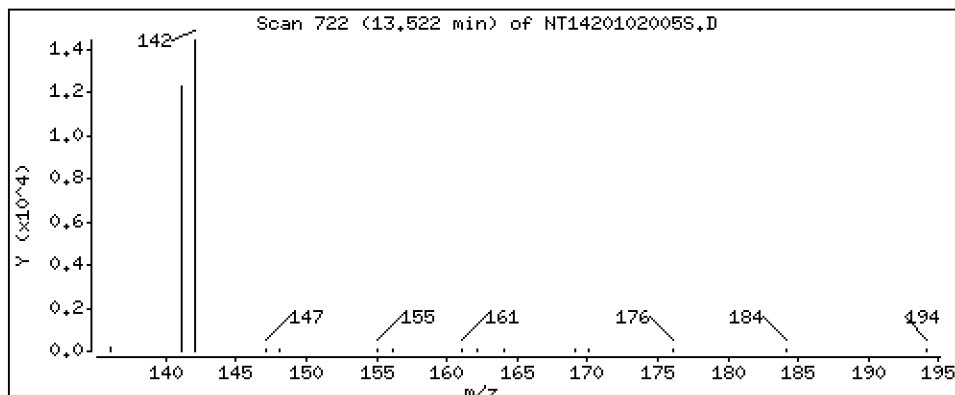
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

8 C1-Naphthalenes

Concentration: 2,516 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

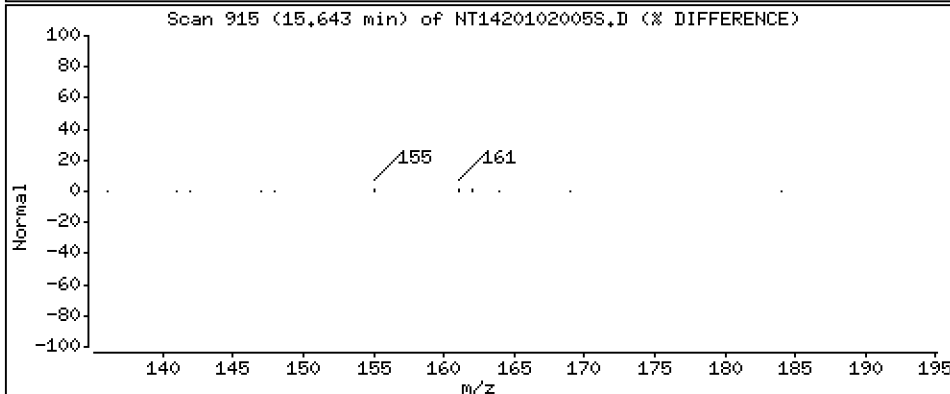
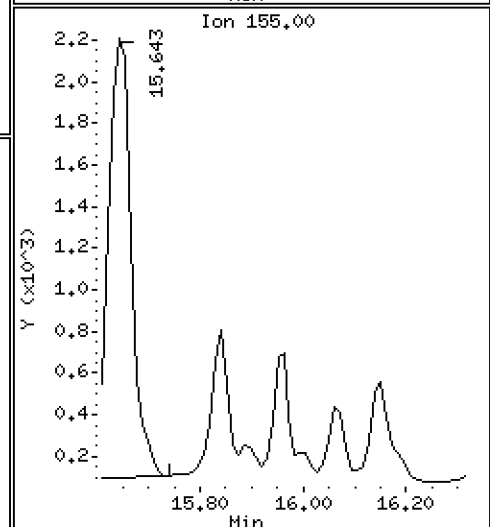
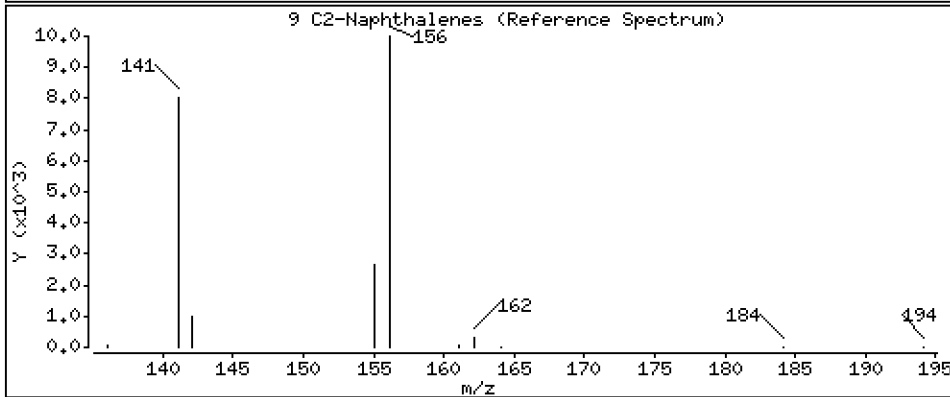
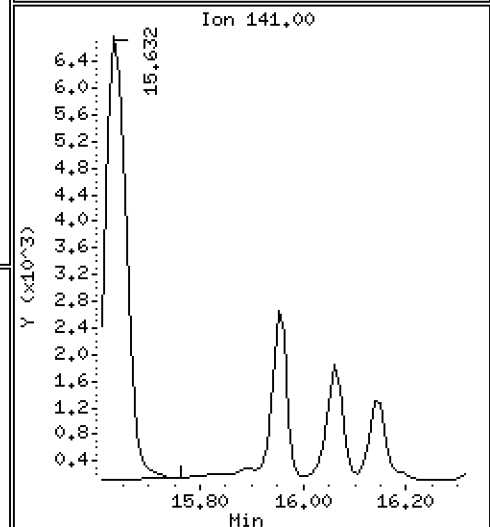
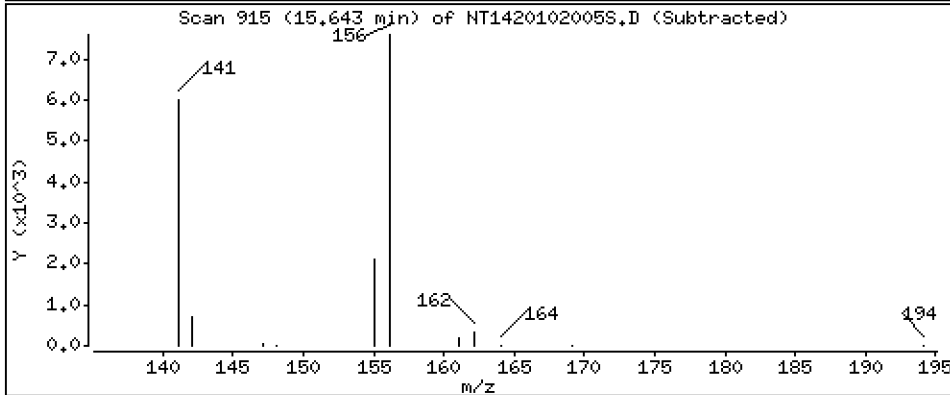
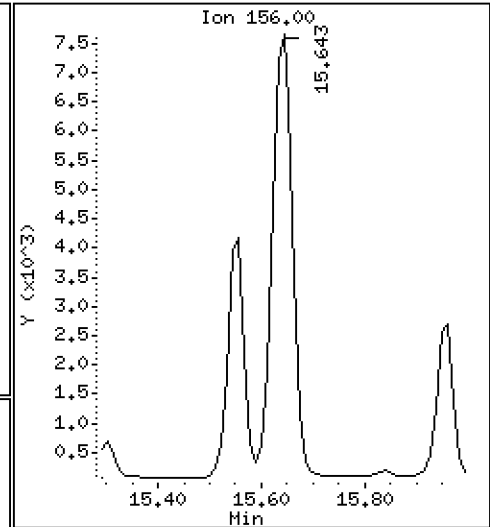
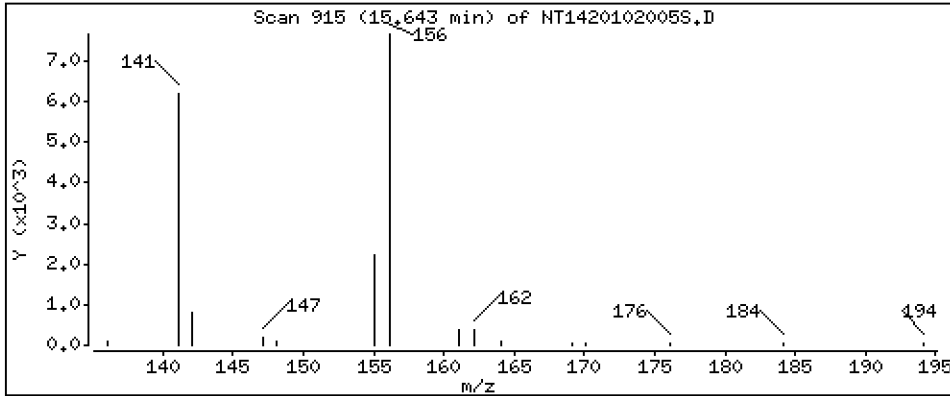
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

9 C2-Naphthalenes

Concentration: 4,114 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

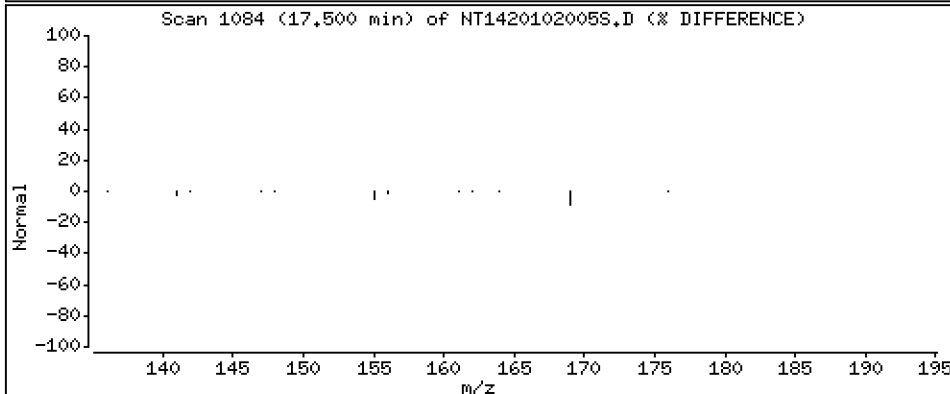
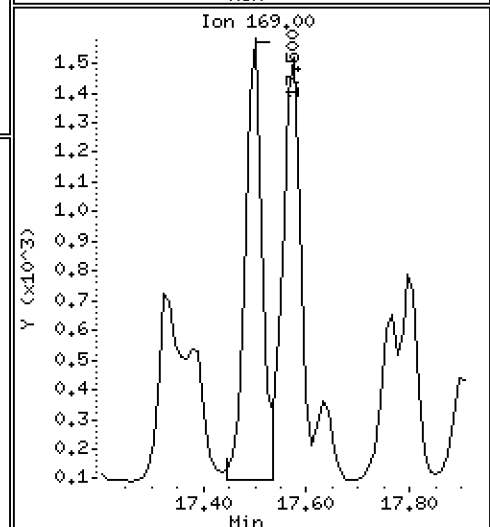
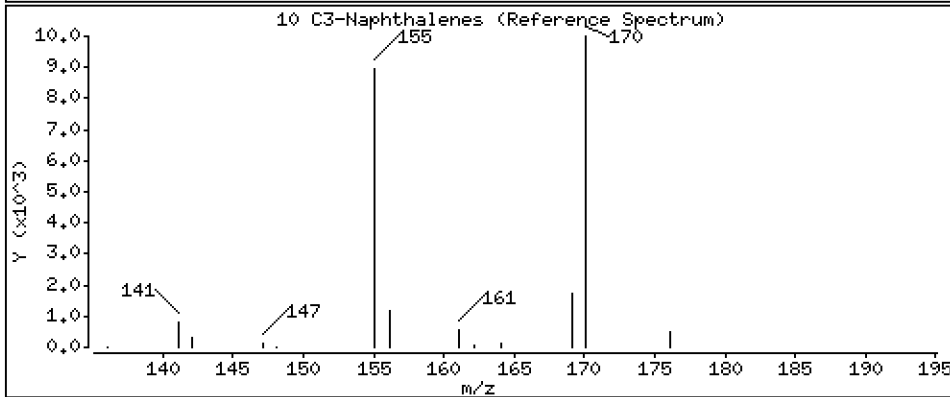
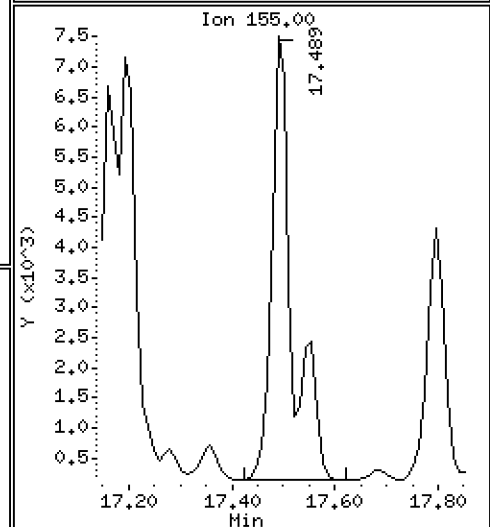
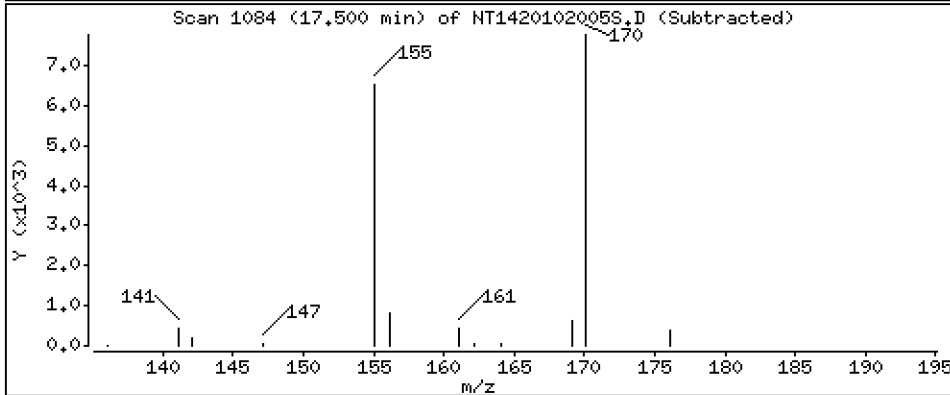
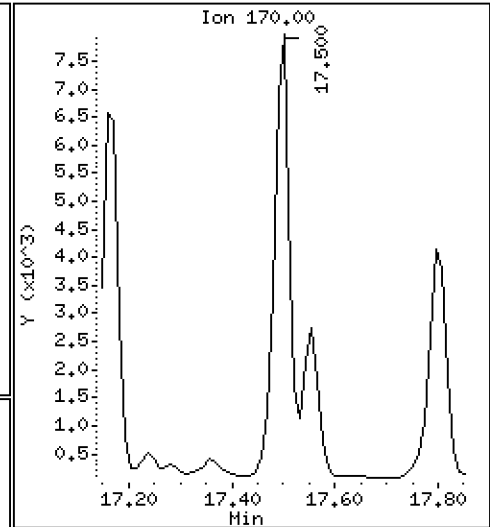
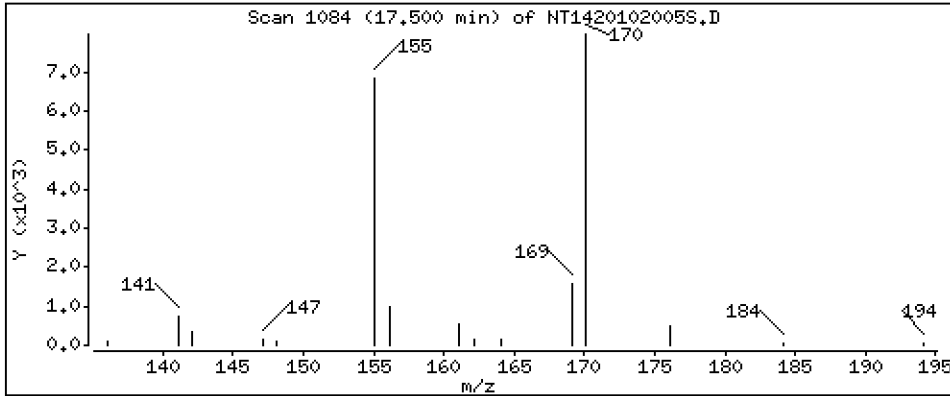
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

10 C3-Naphthalenes

Concentration: 4,807 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

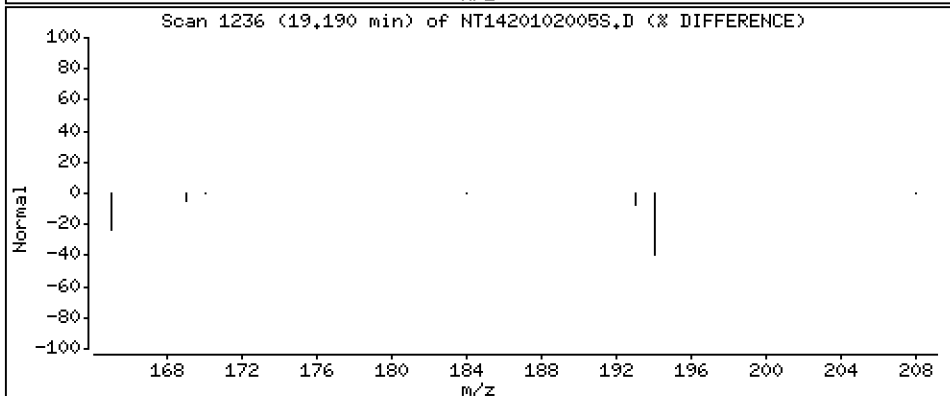
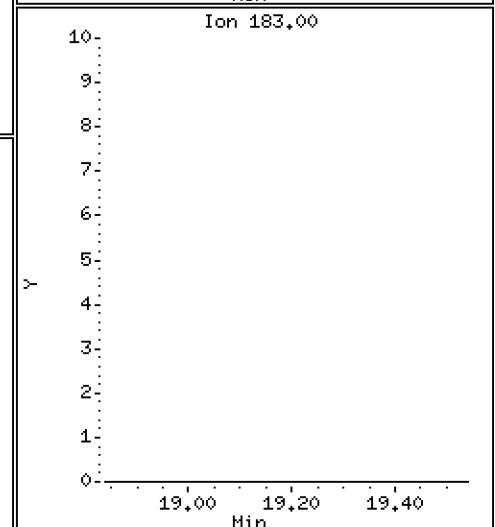
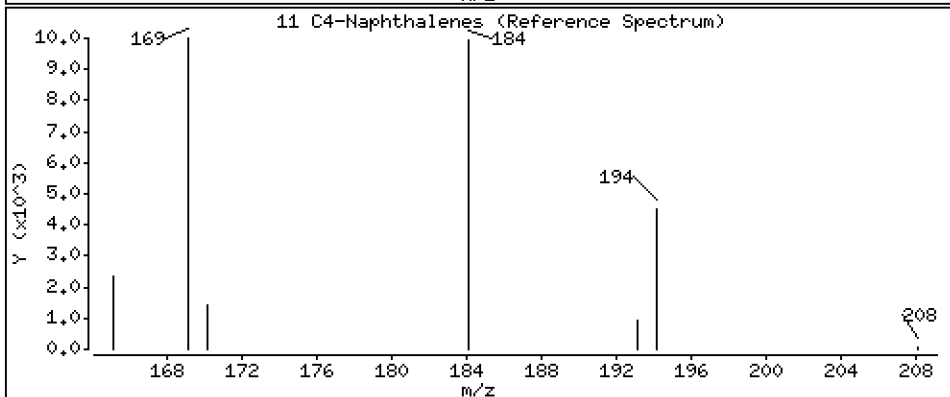
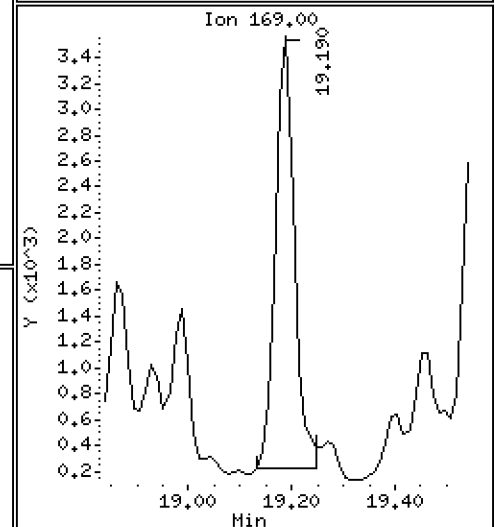
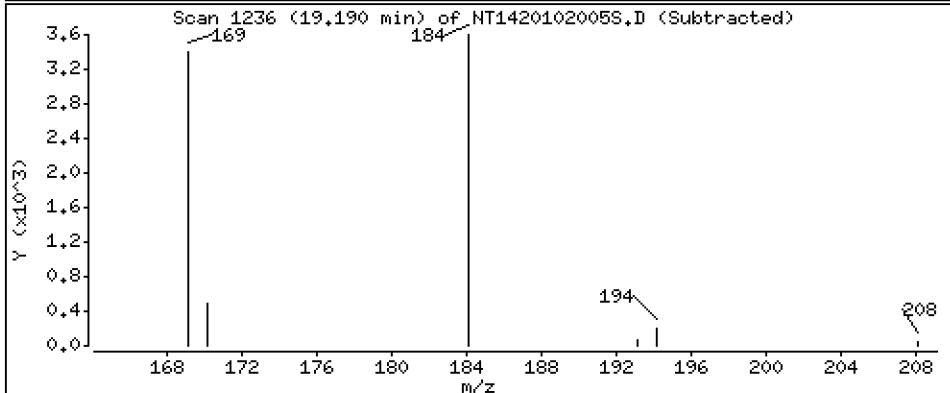
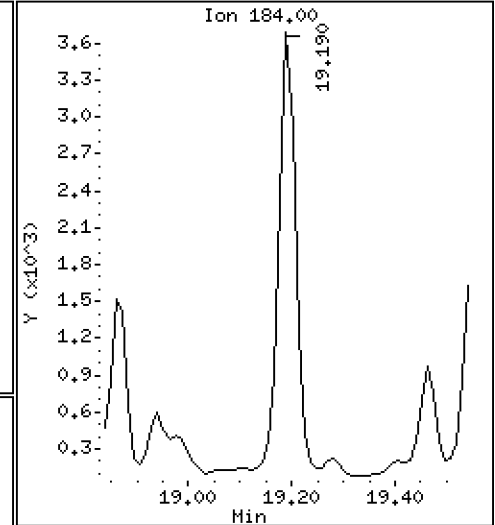
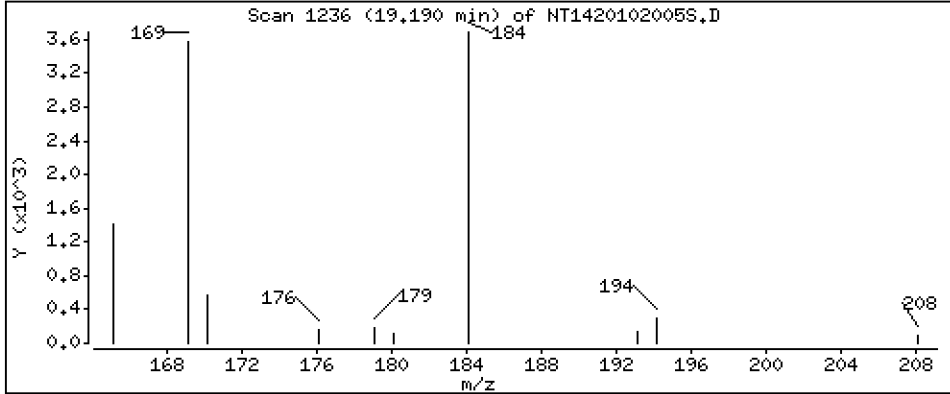
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

Concentration: 4,066 ug/mL

11 C4-Naphthalenes



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

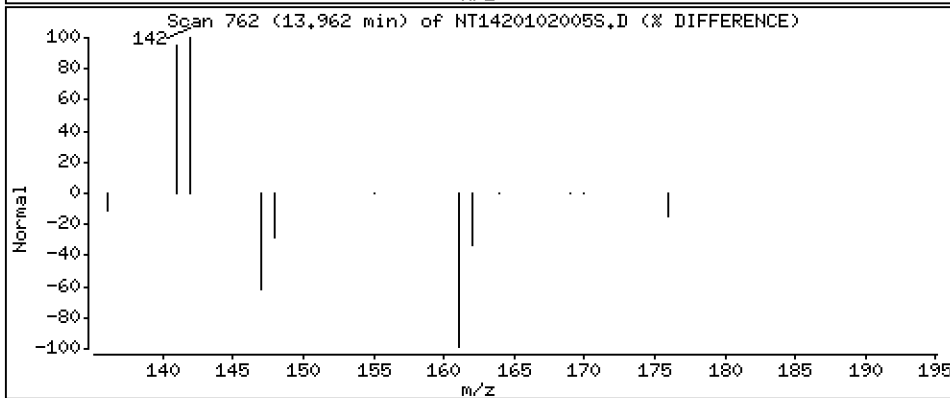
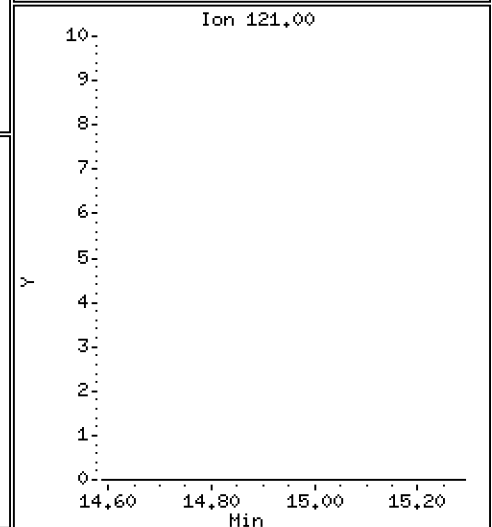
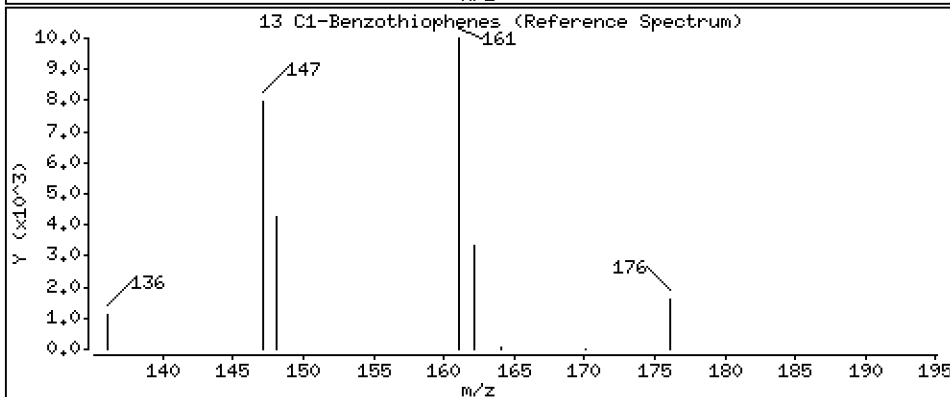
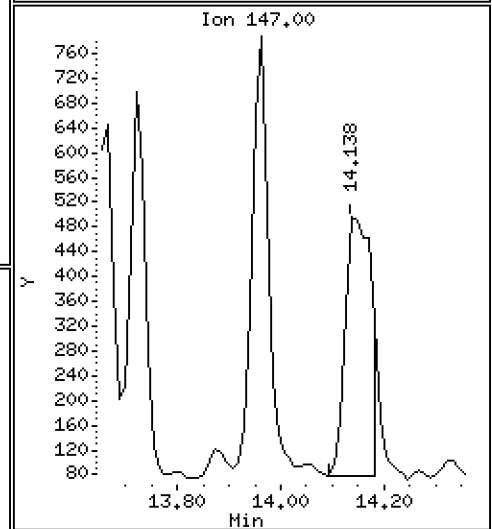
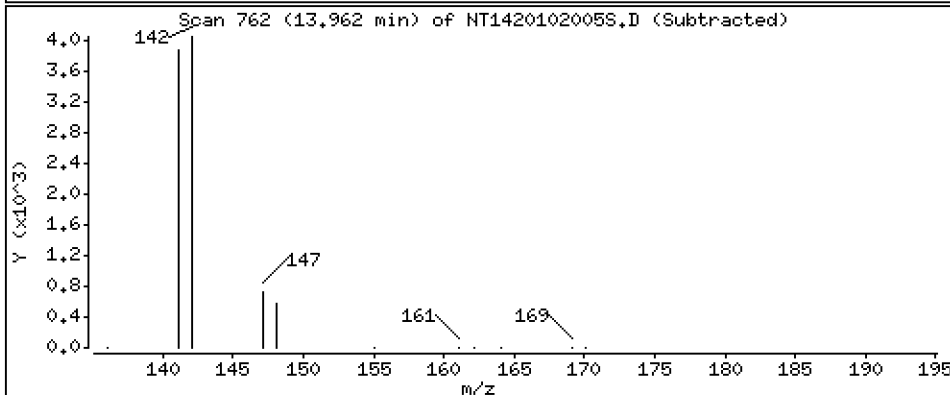
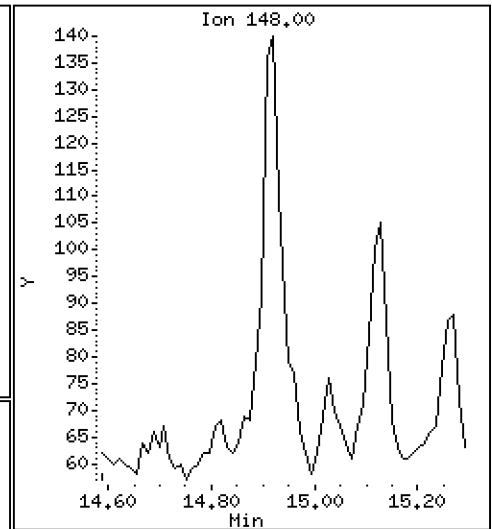
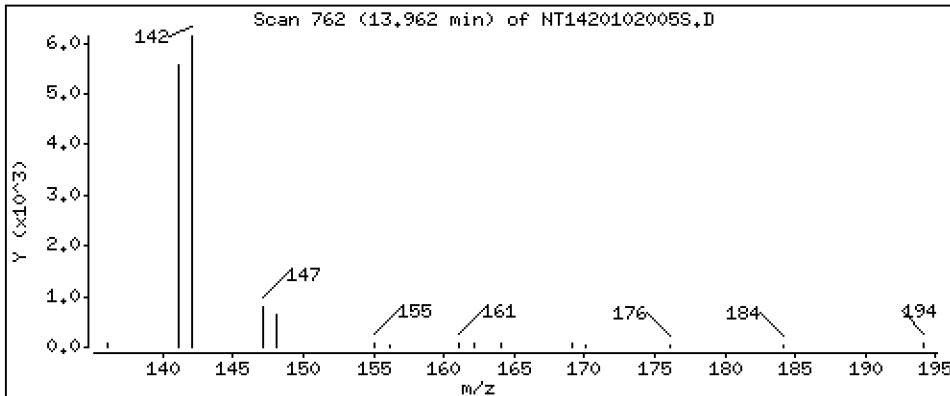
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

13 C1-Benzothiophenes

Concentration: 0,2863 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

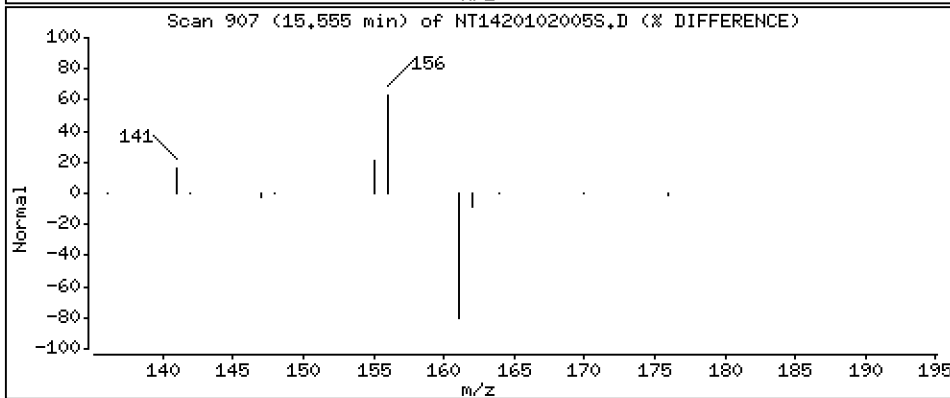
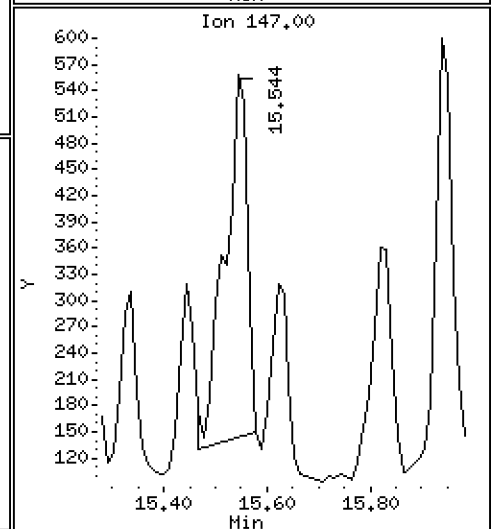
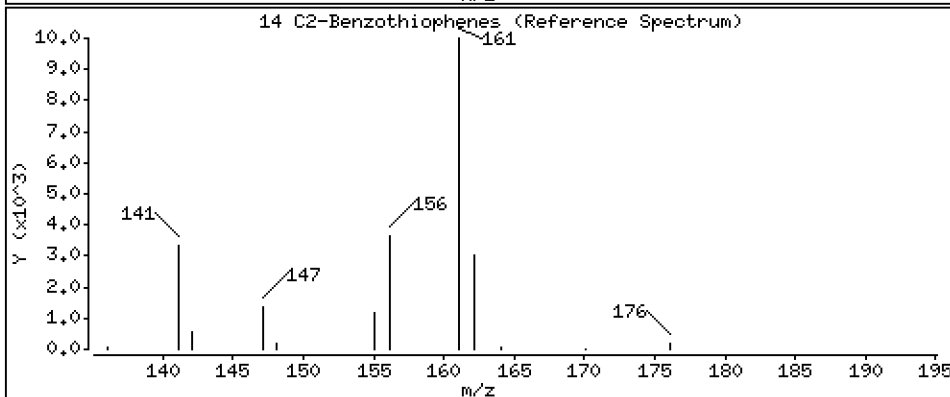
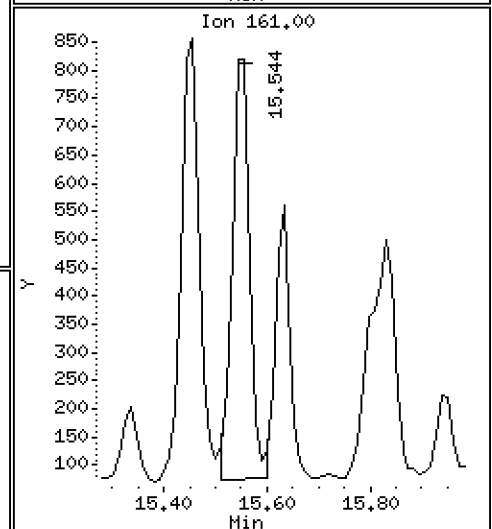
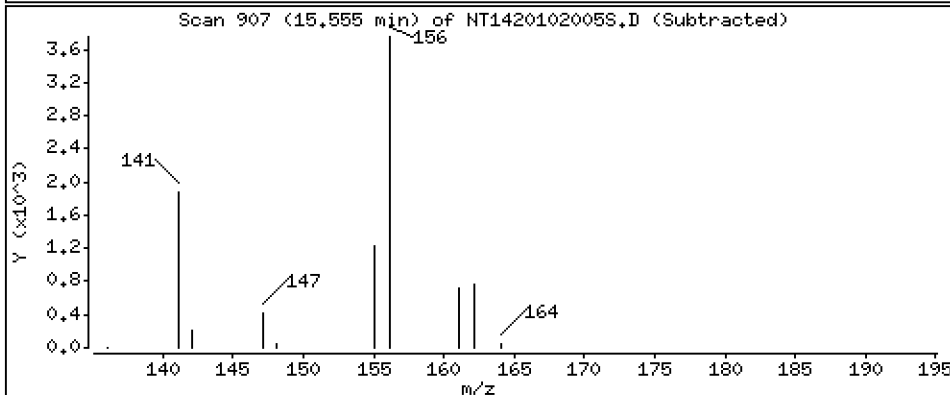
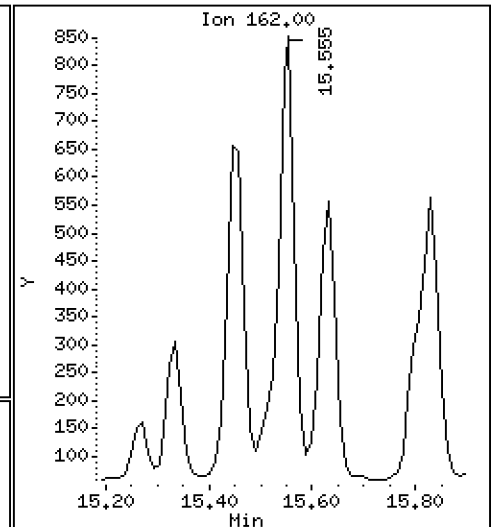
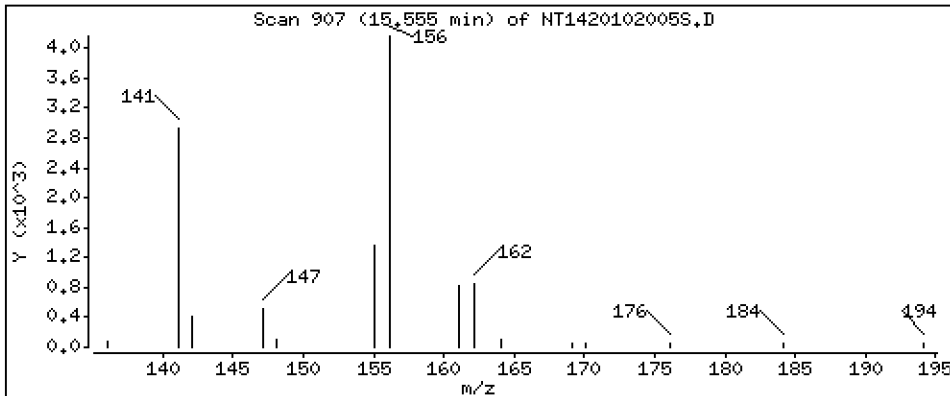
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

14 C2-Benzothiophenes

Concentration: 0,7972 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

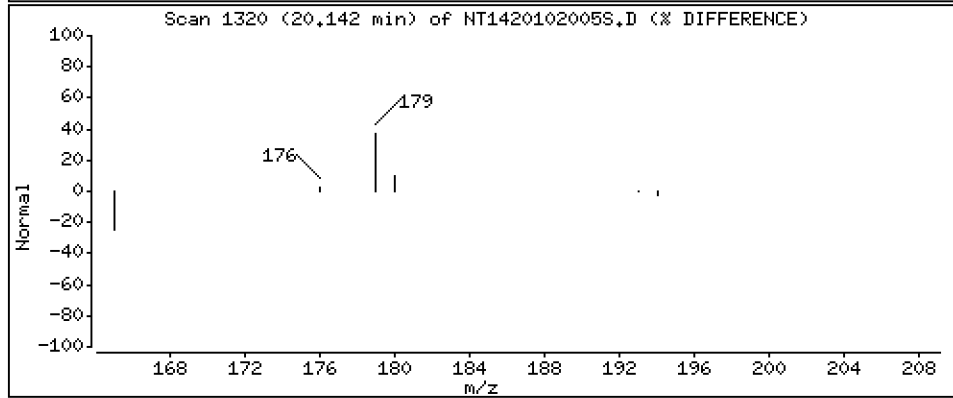
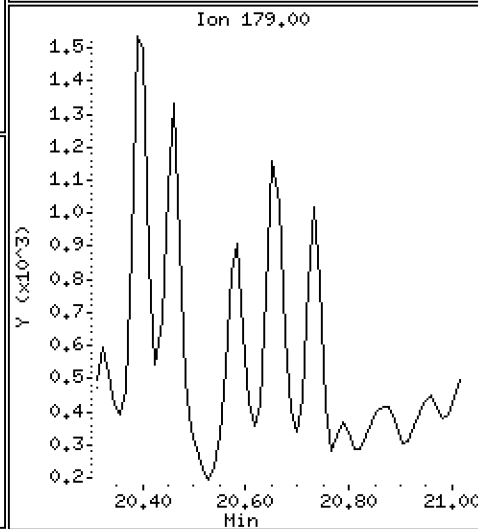
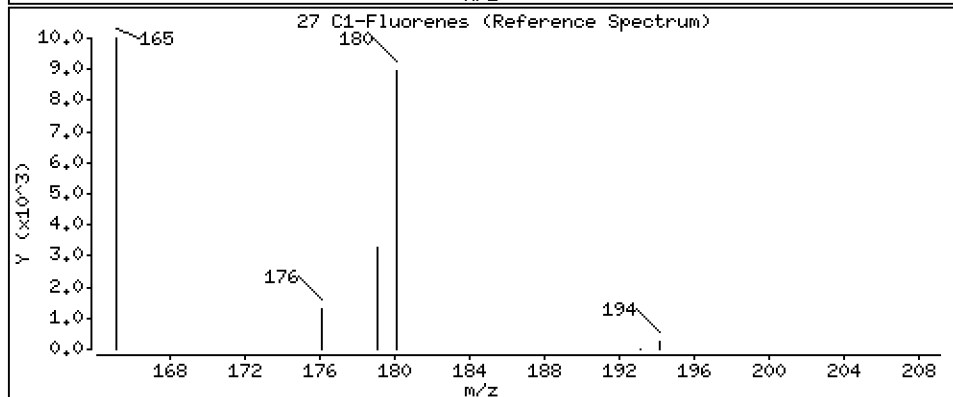
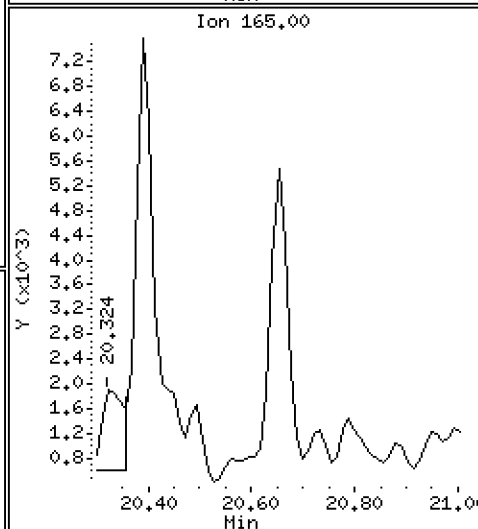
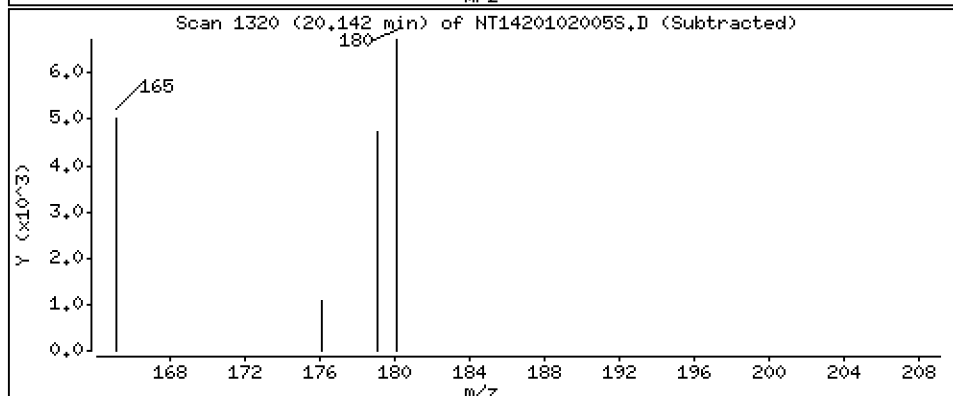
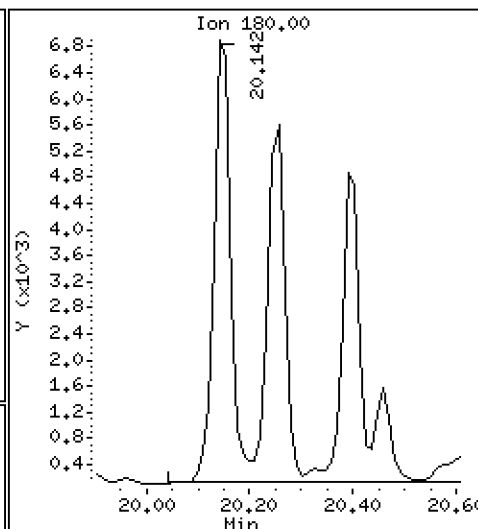
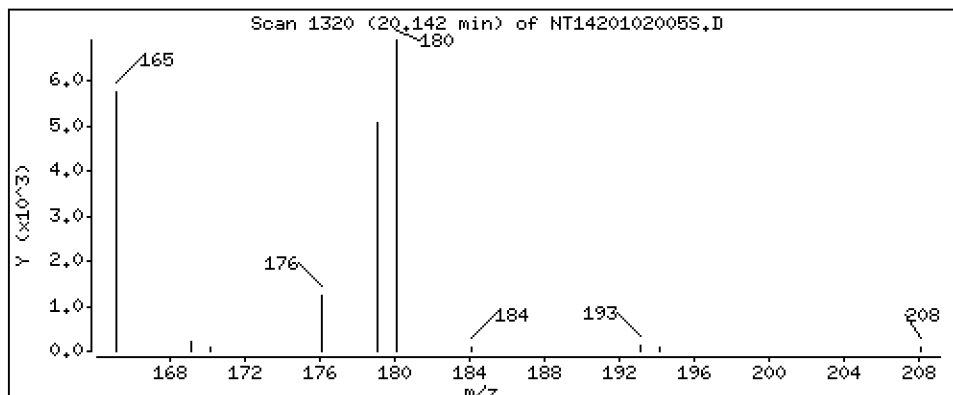
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

27 C1-Fluorenes

Concentration: 3,252 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

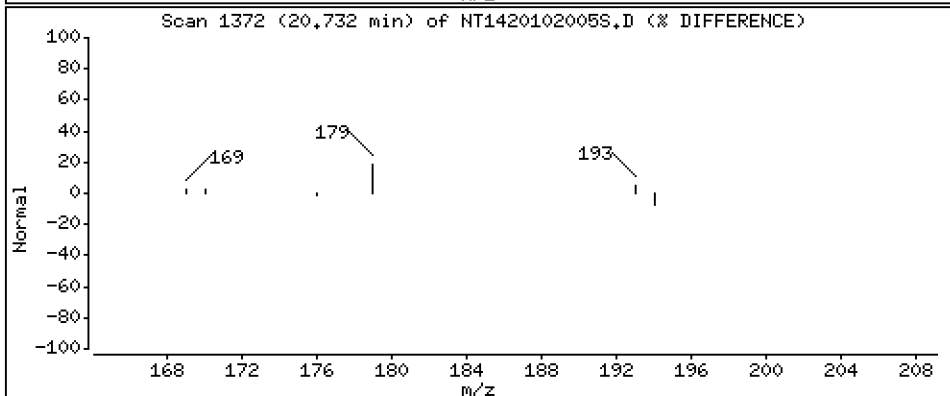
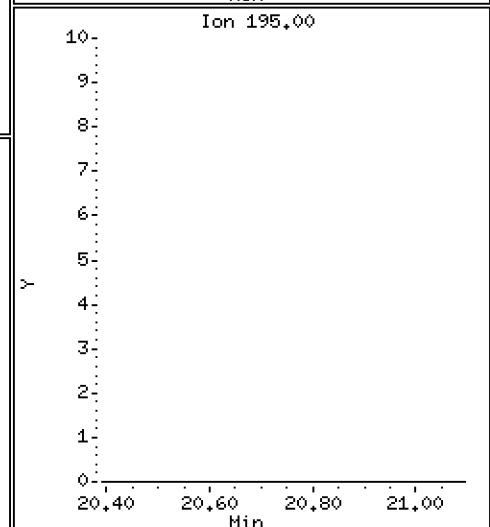
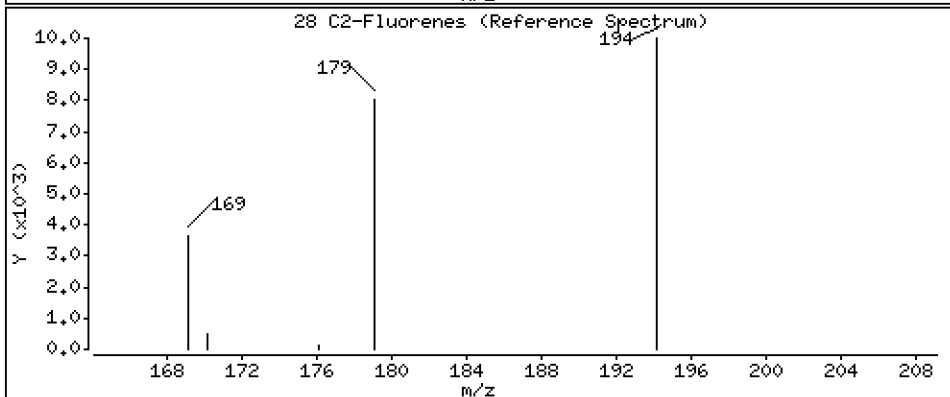
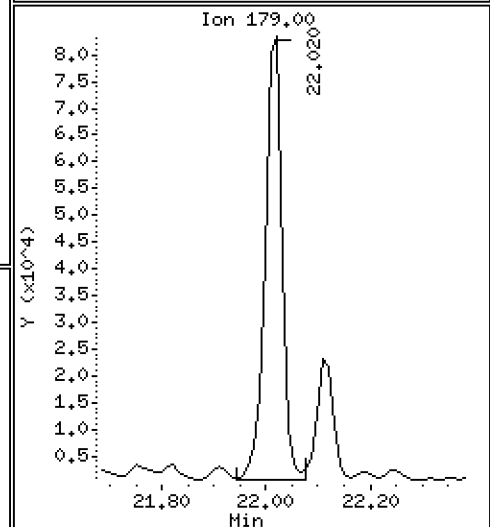
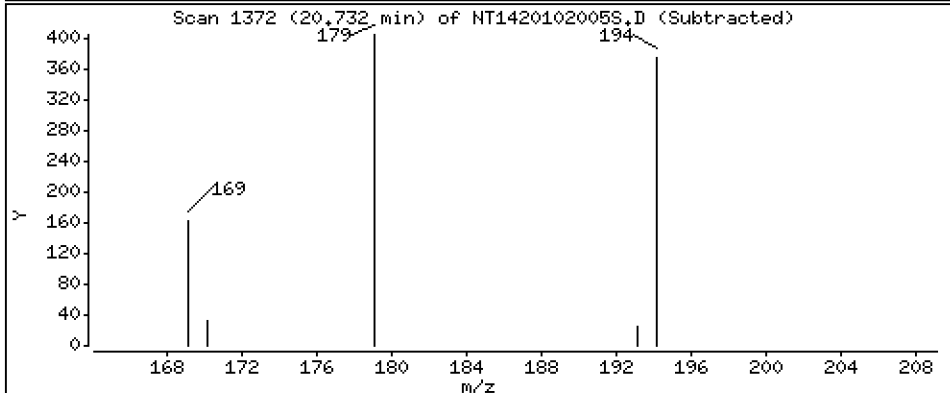
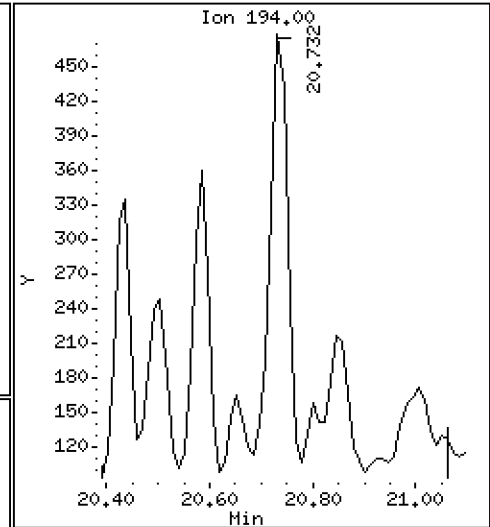
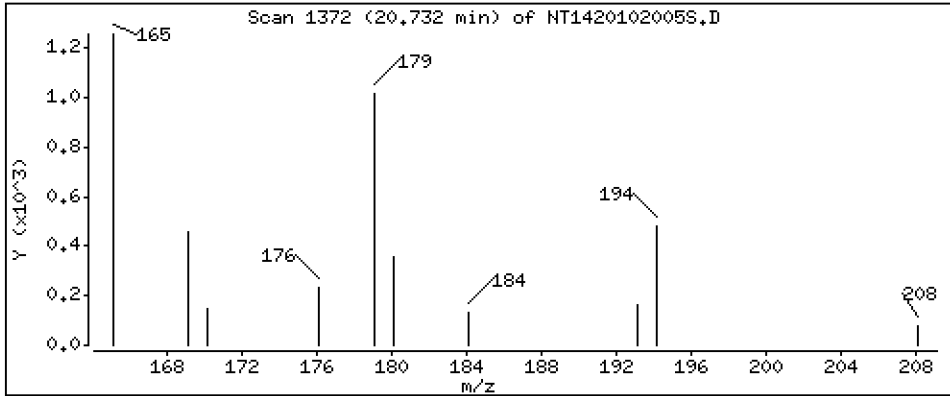
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

28 C2-Fluorenes

Concentration: 0,2746 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

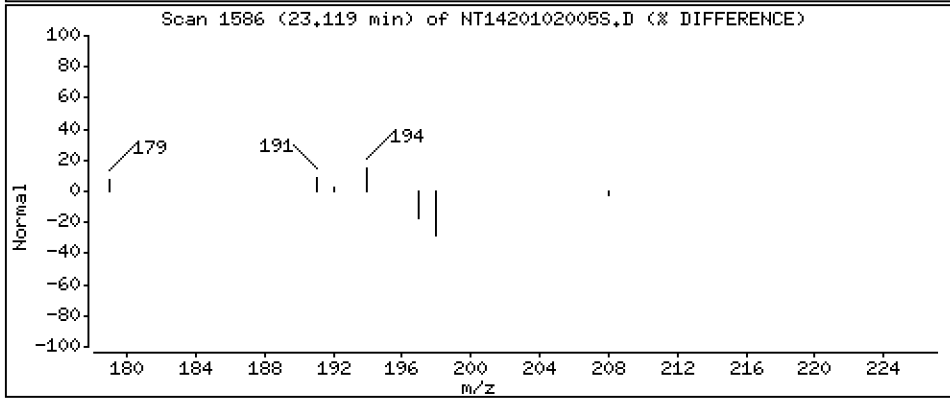
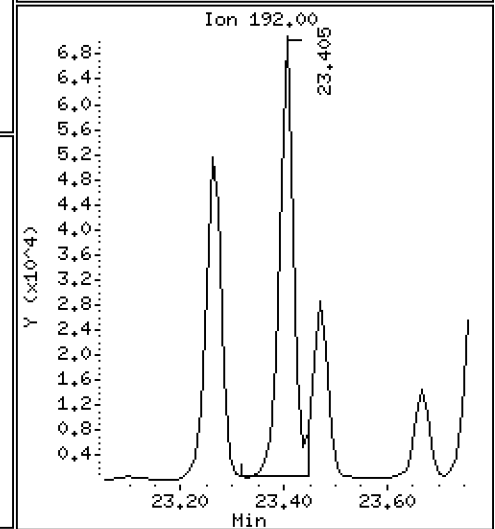
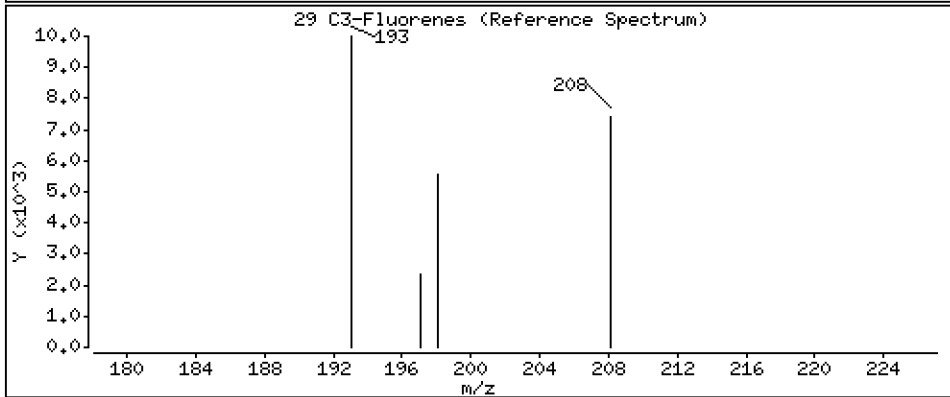
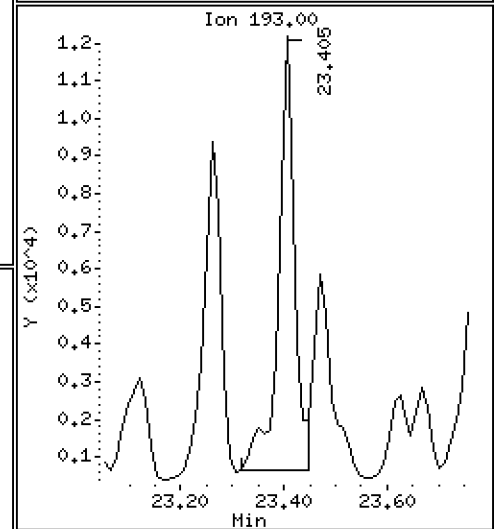
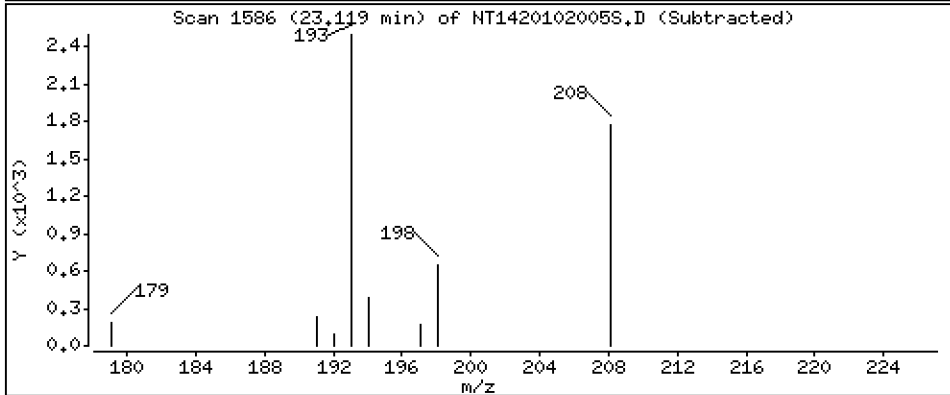
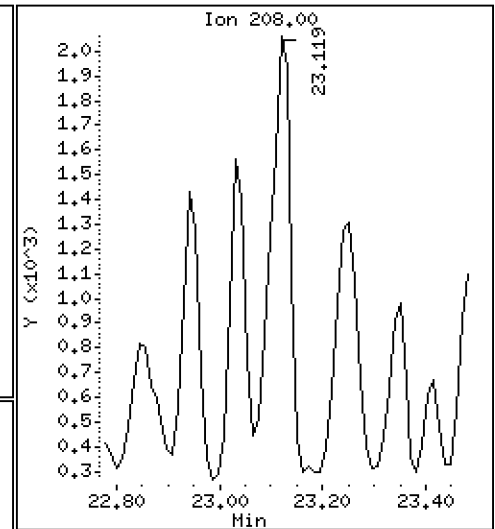
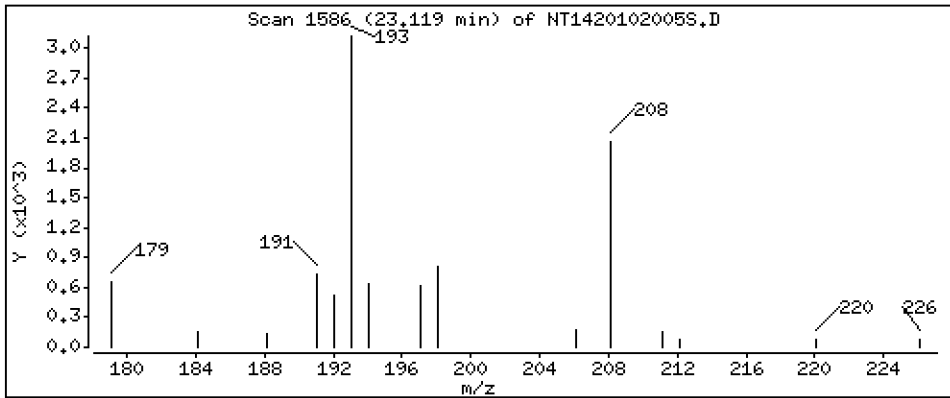
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

29 C3-Fluorenes

Concentration: 3,561 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

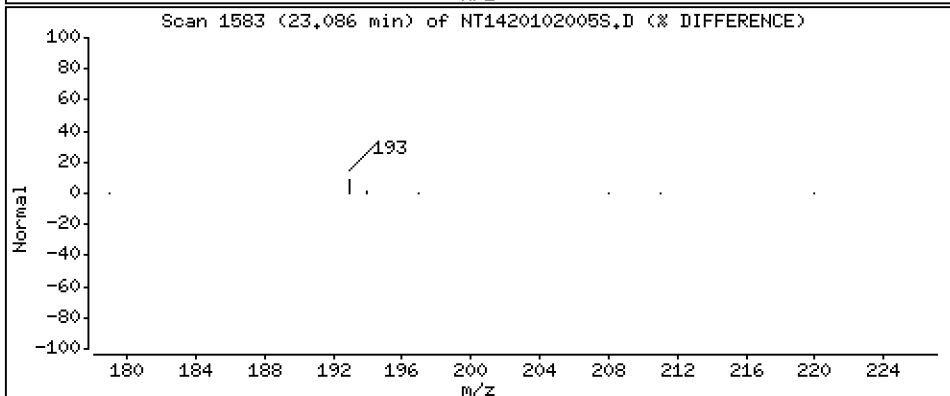
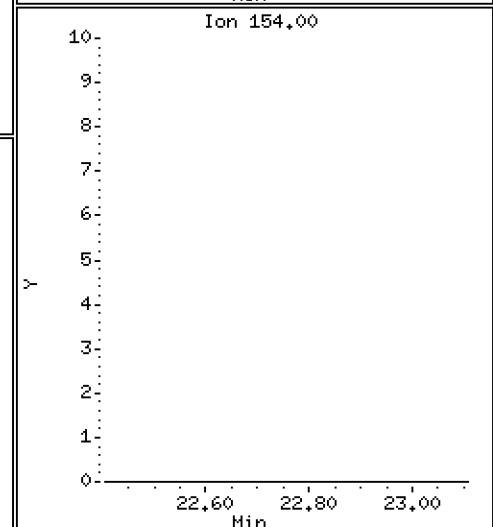
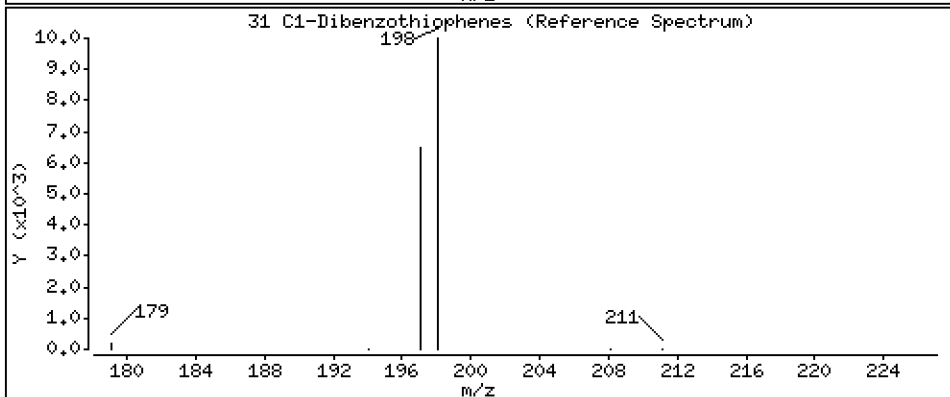
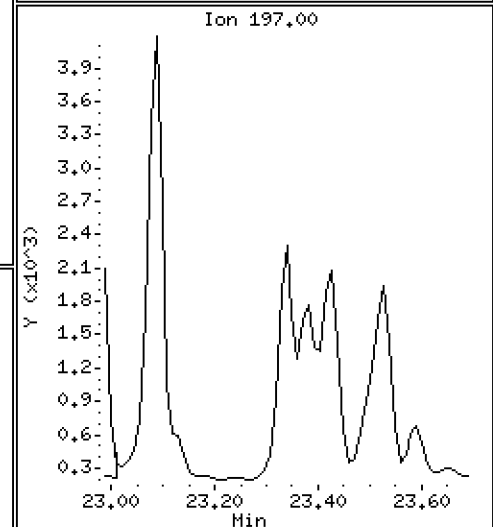
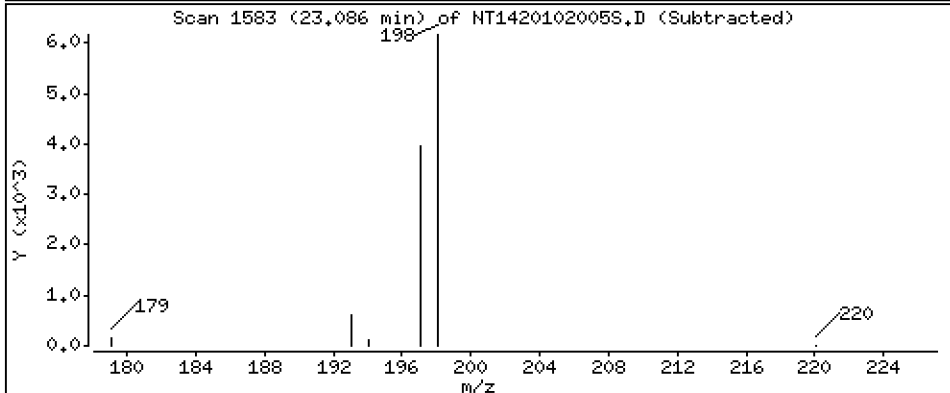
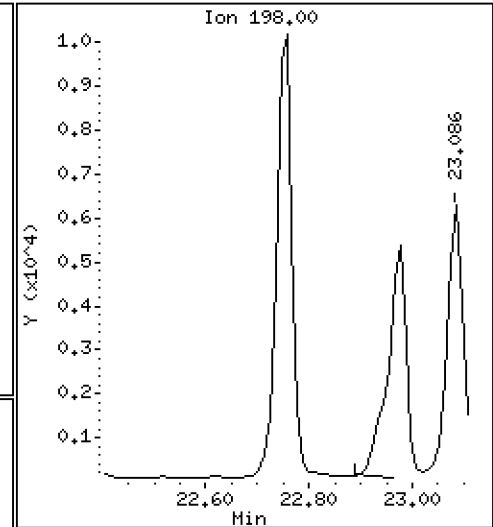
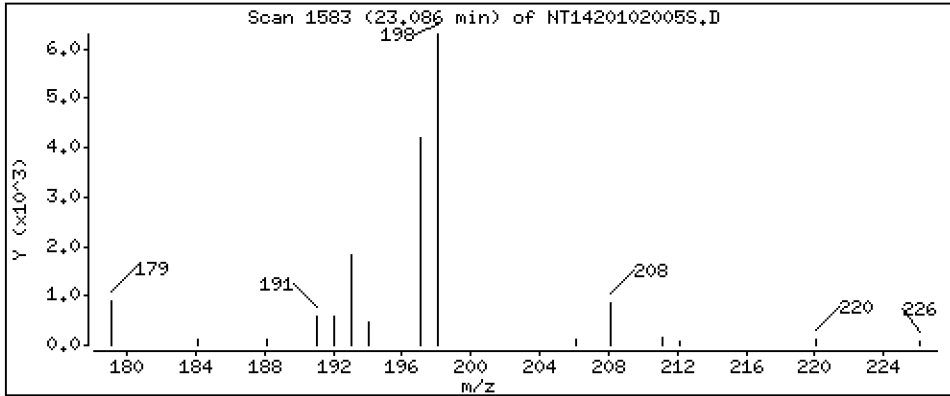
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

31 C1-Dibenzothiophenes

Concentration: 2,282 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

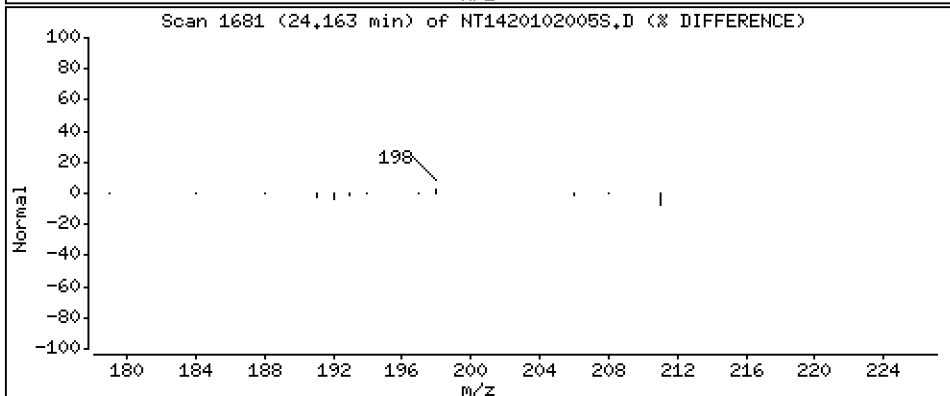
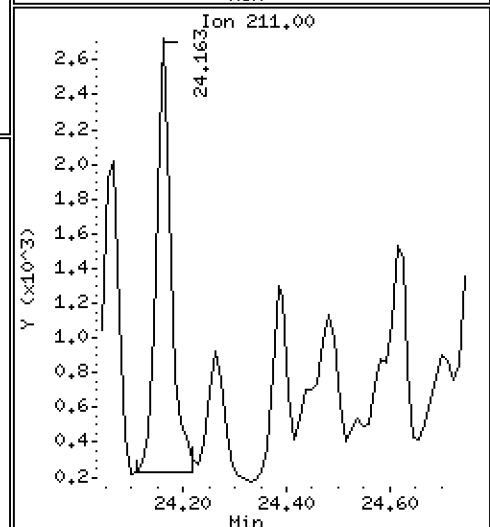
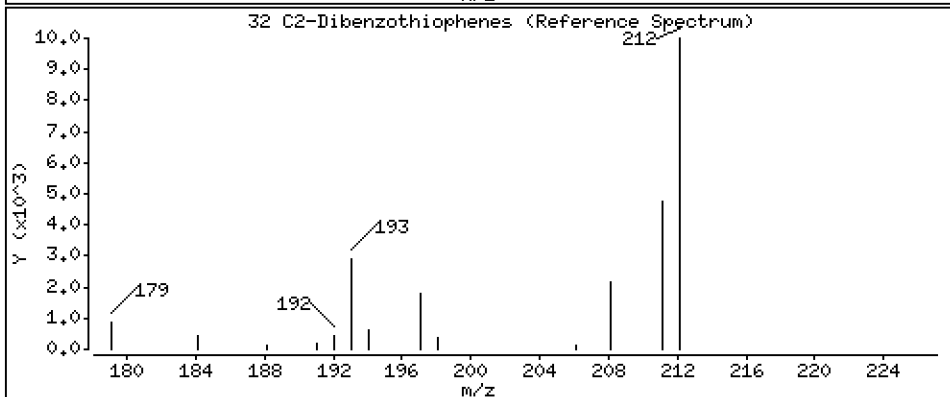
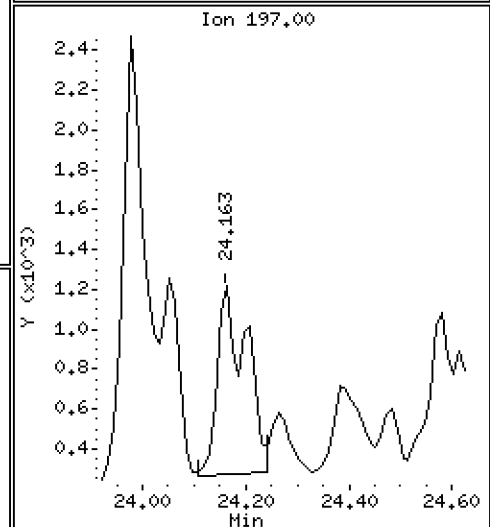
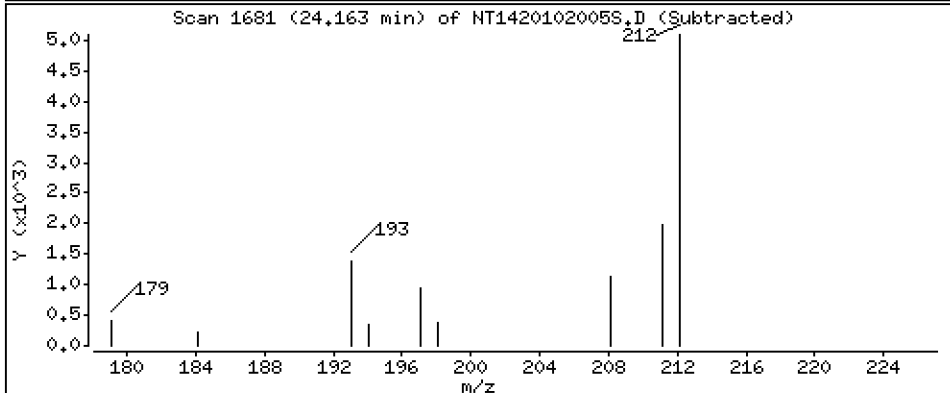
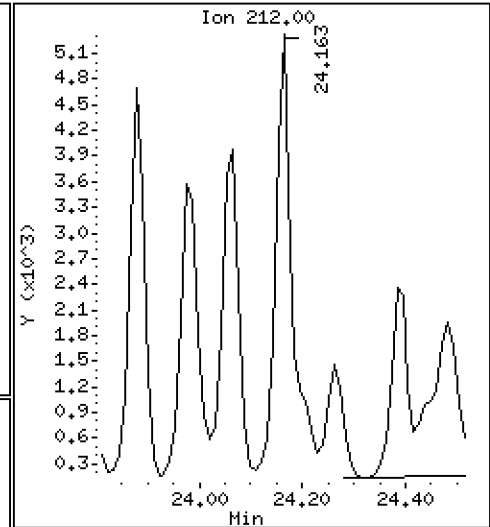
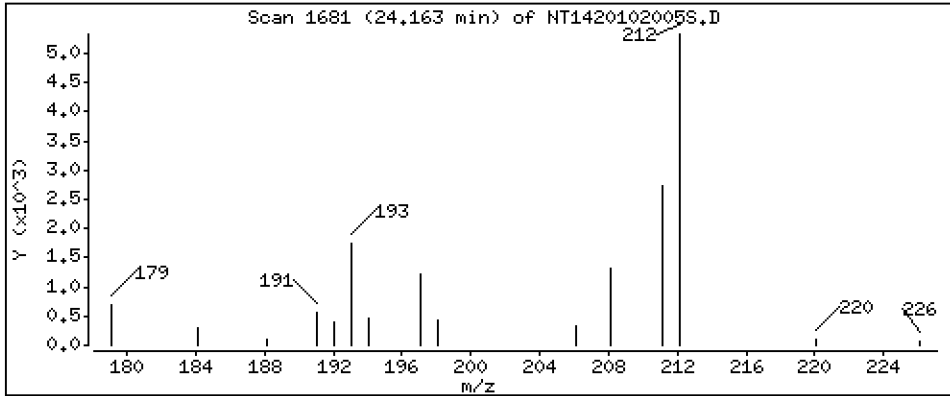
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

32 C2-Dibenzothiophenes

Concentration: 4,012 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

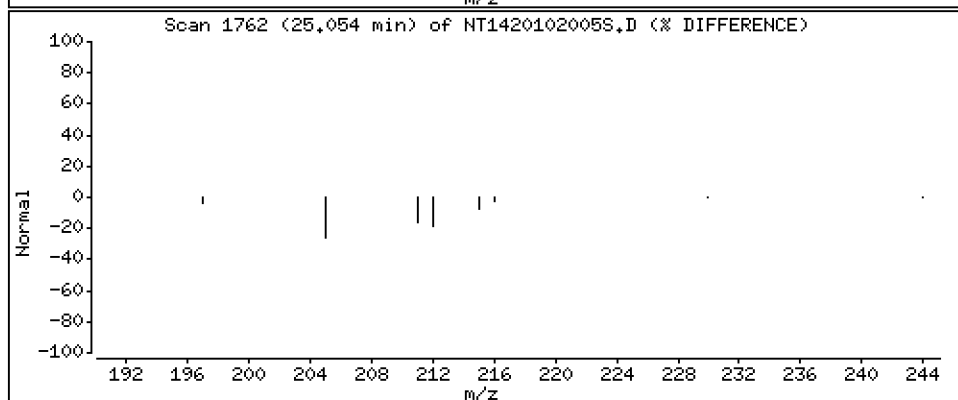
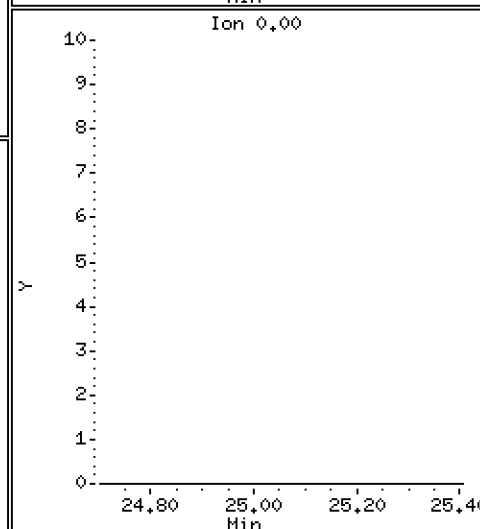
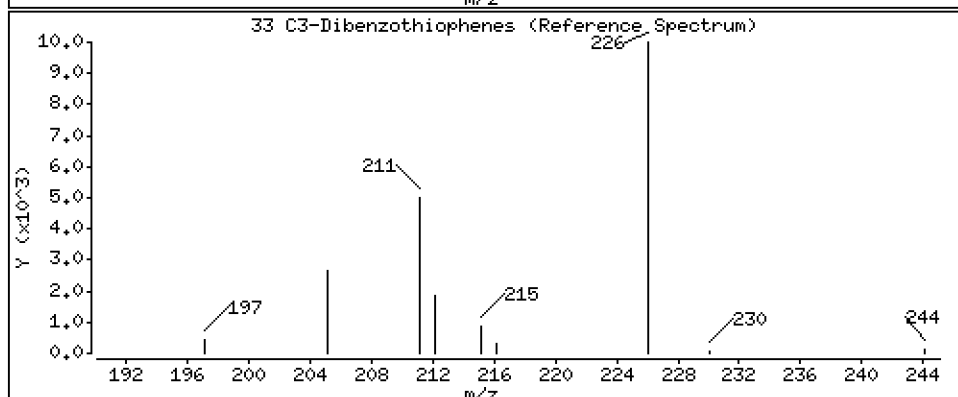
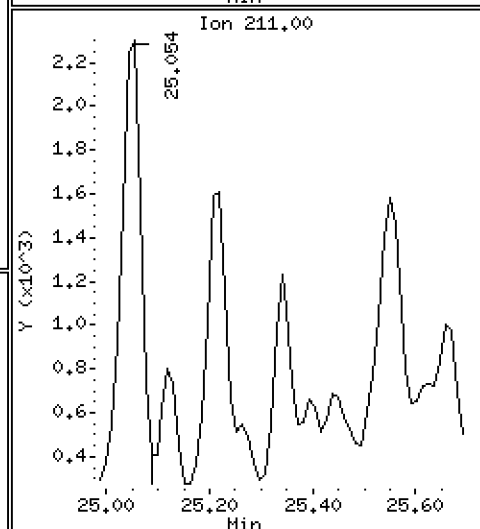
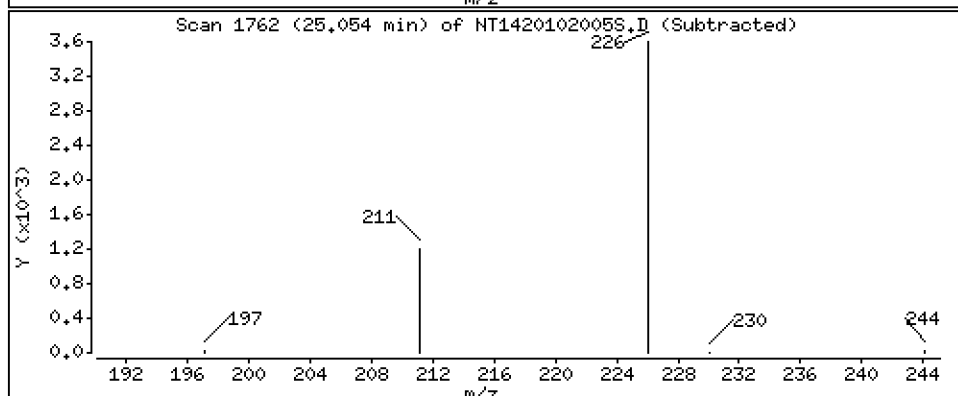
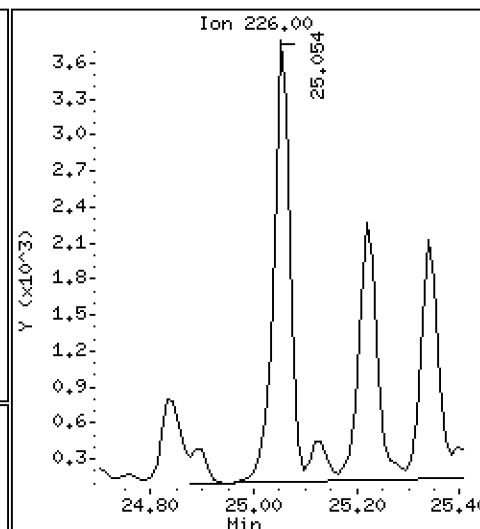
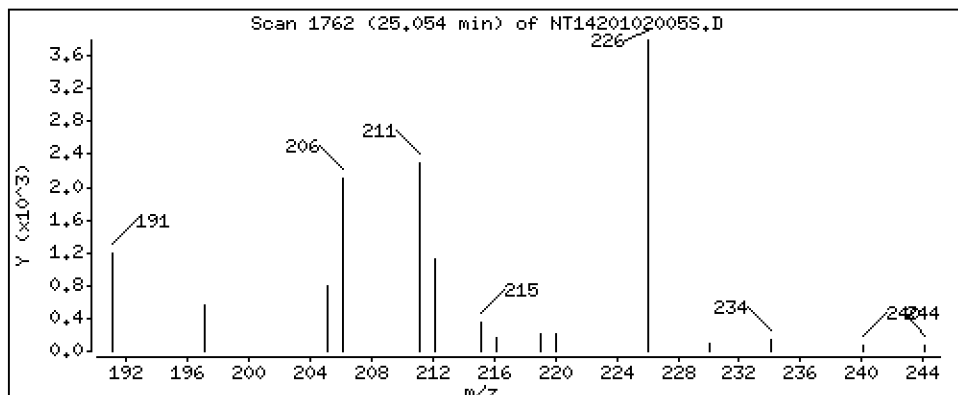
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

33 C3-Dibenzothiophenes

Concentration: 3,503 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

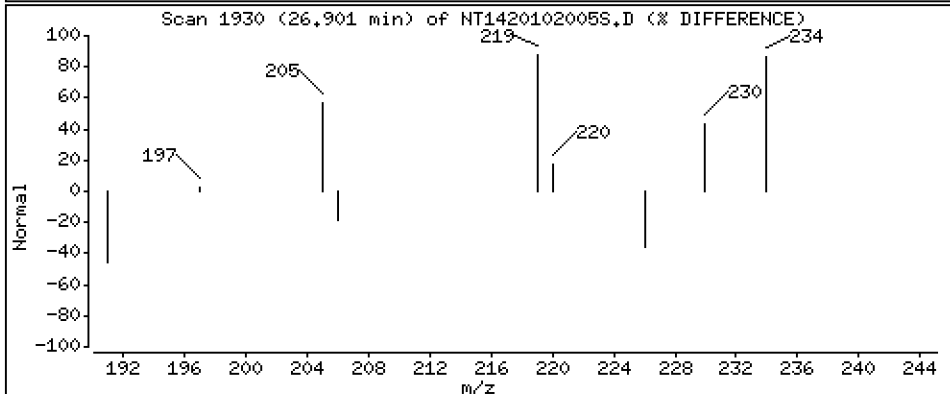
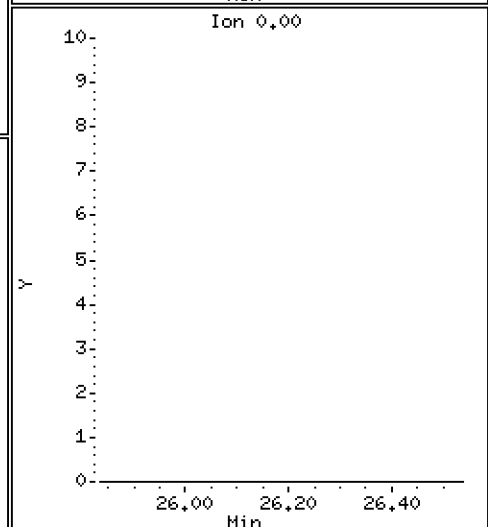
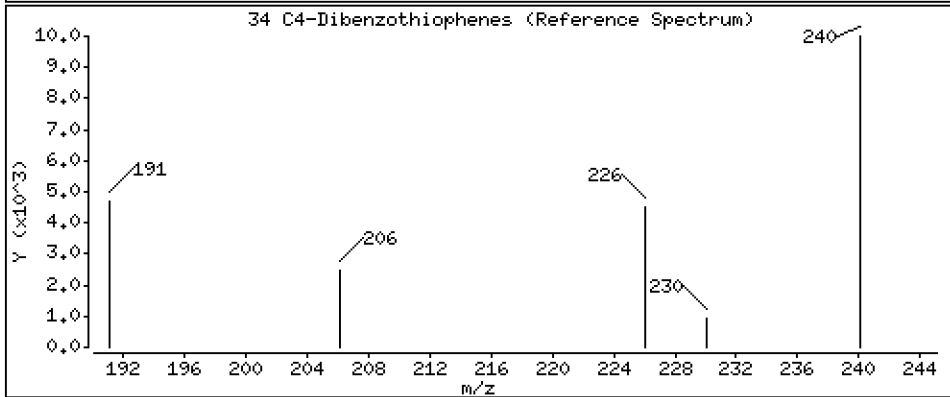
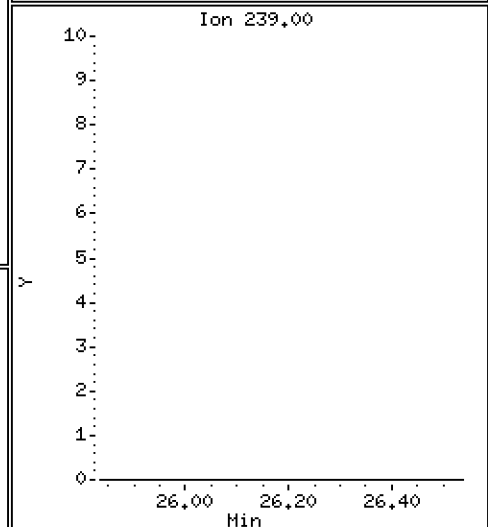
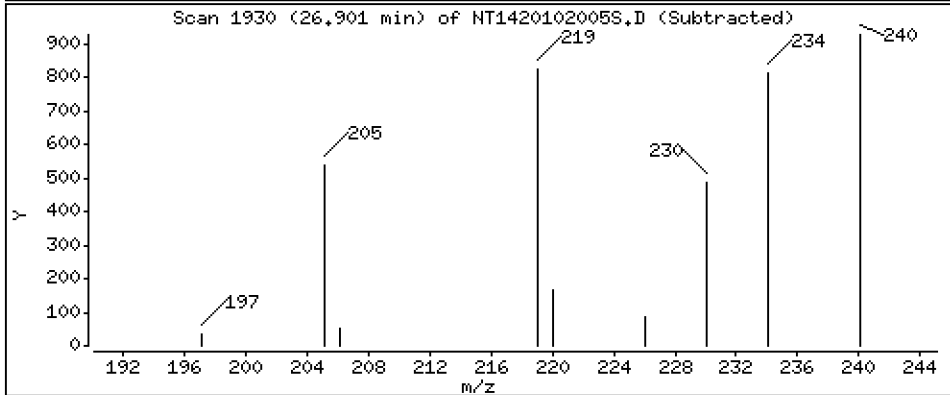
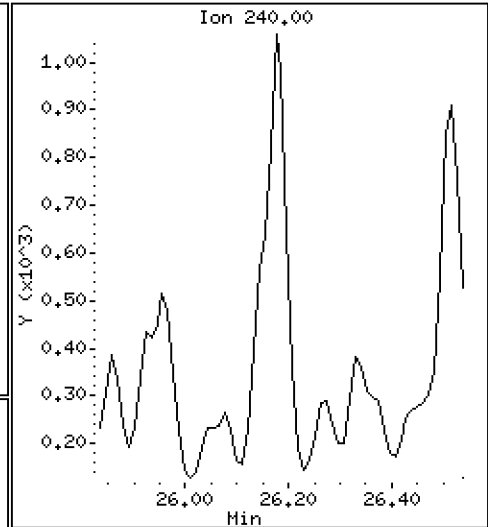
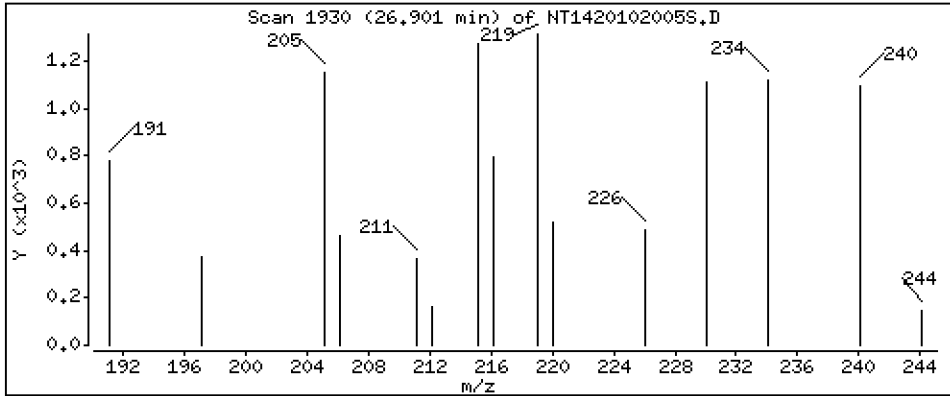
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

34 C4-Dibenzothiophenes

Concentration: 1,691 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

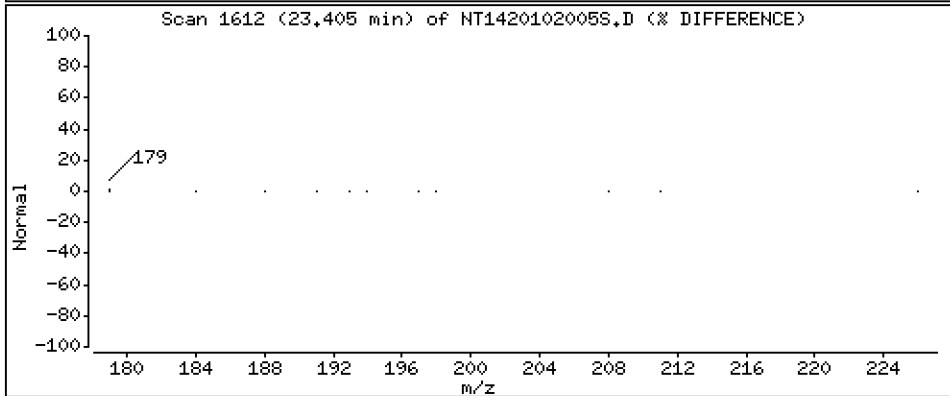
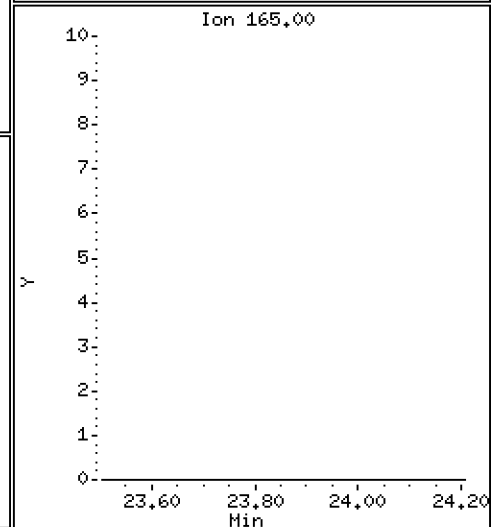
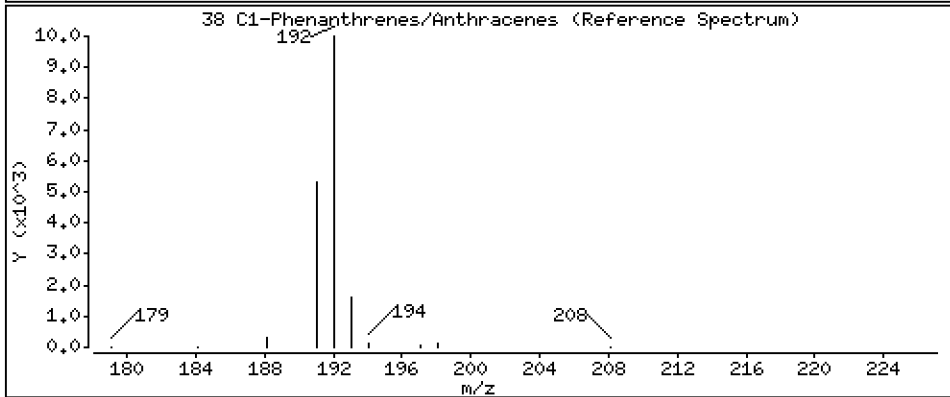
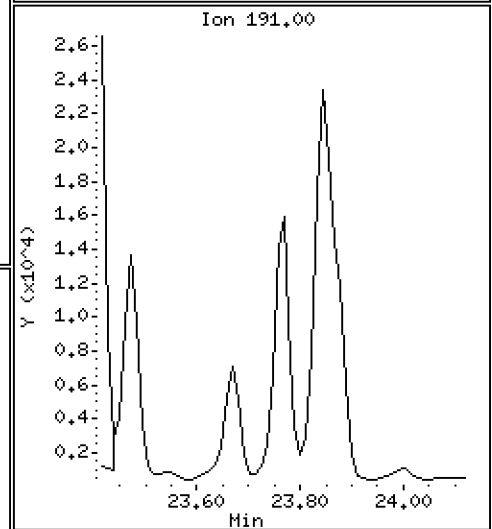
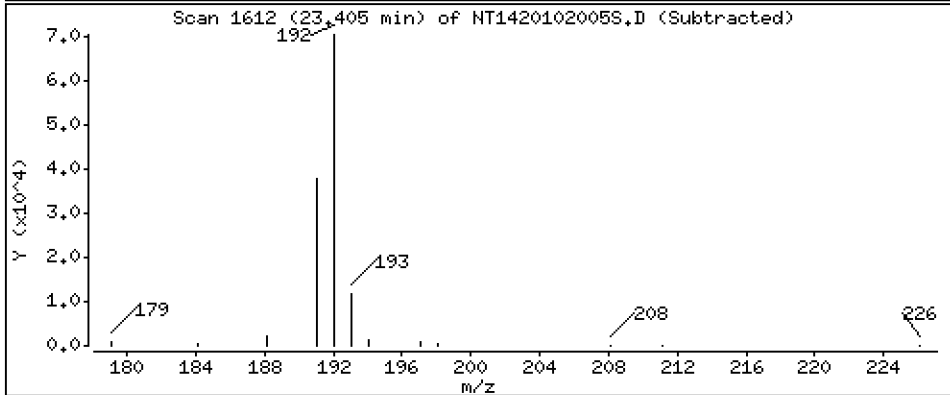
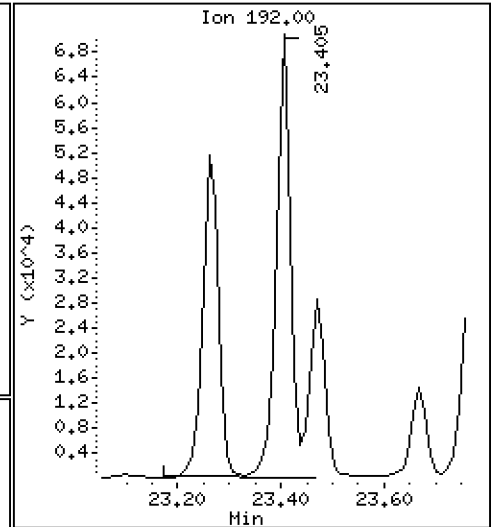
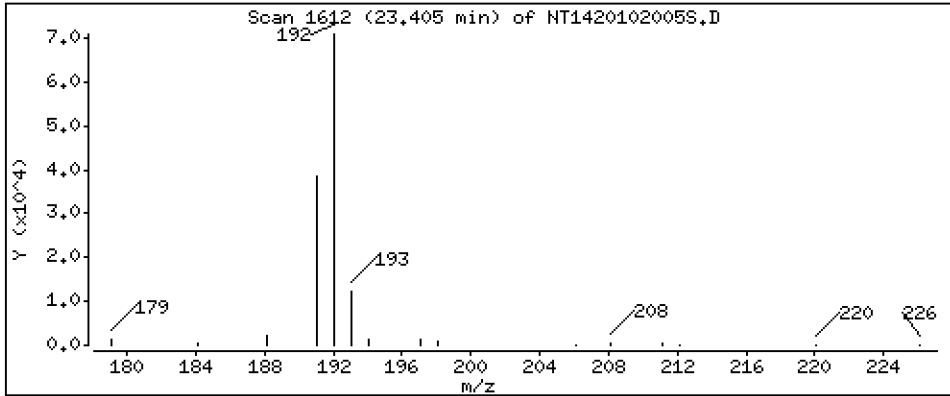
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

38 C1-Phenanthrenes/Anthracenes

Concentration: 18,22 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

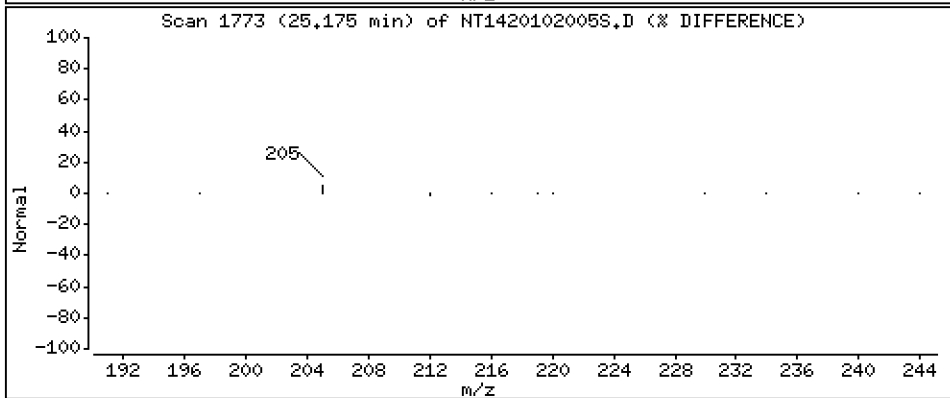
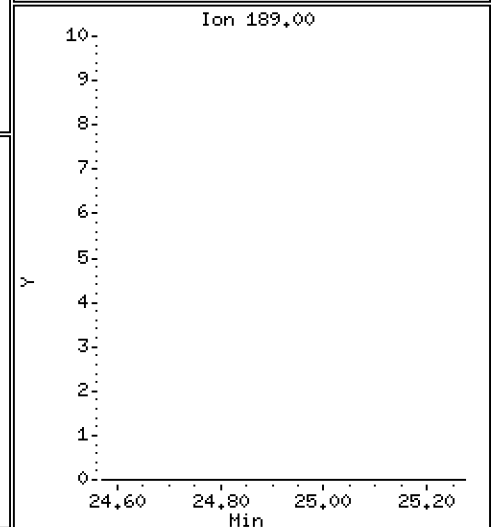
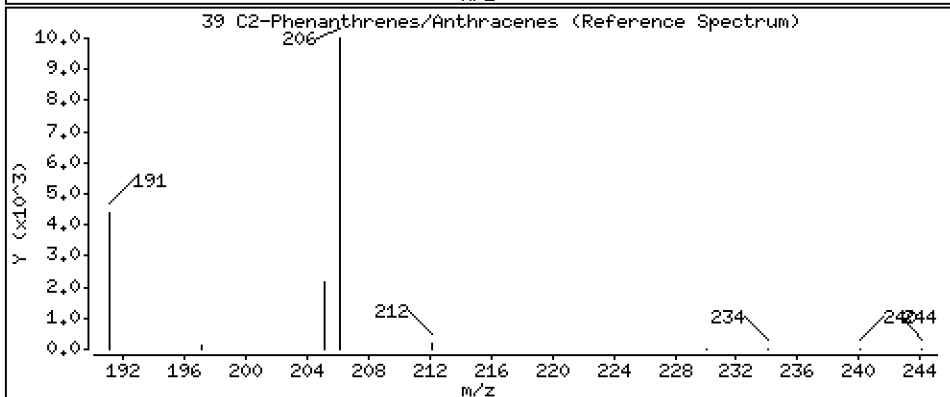
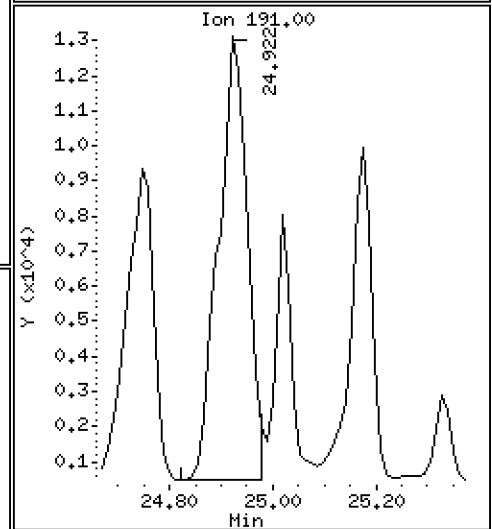
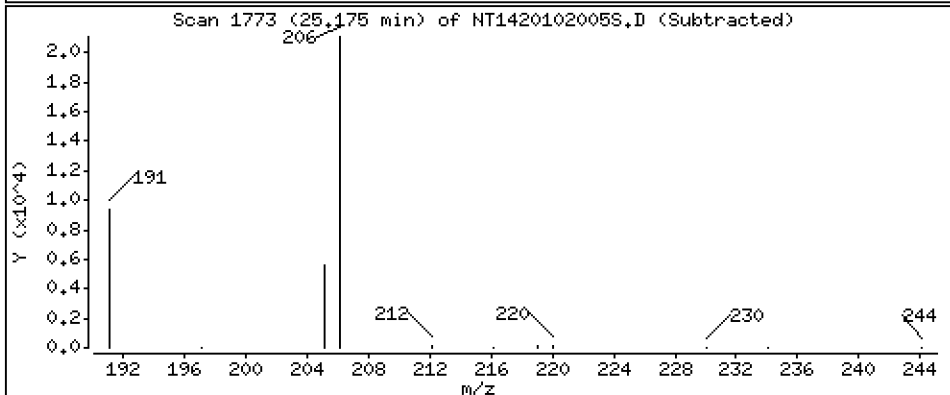
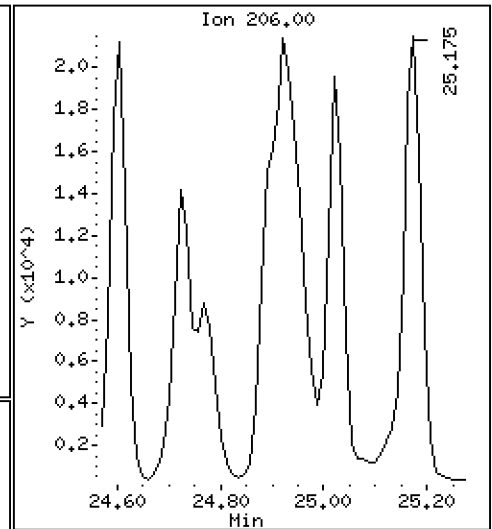
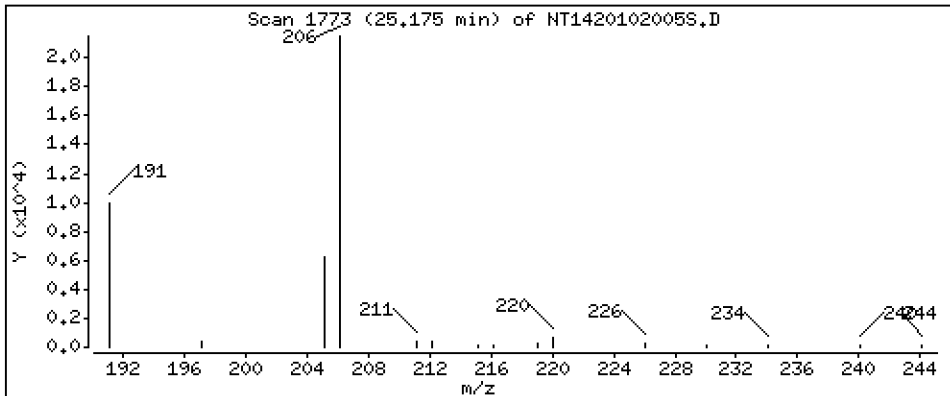
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

39 C2-Phenanthrenes/Anthracenes

Concentration: 14,14 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

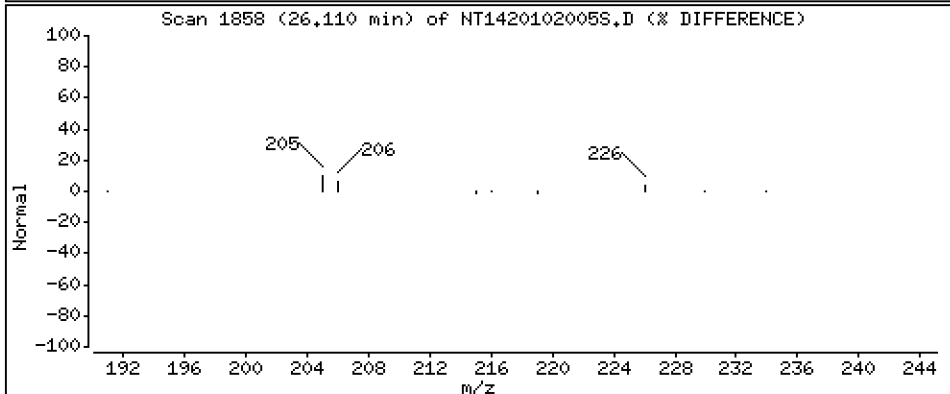
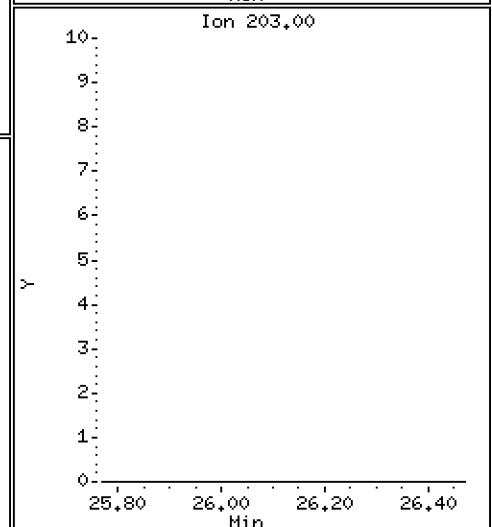
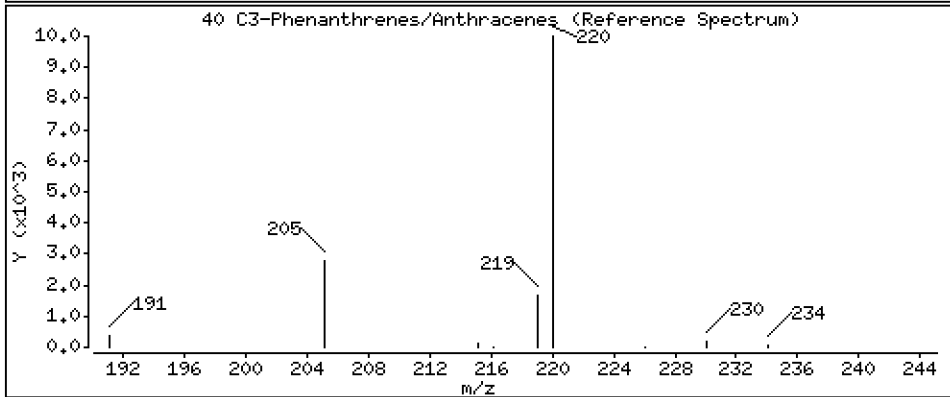
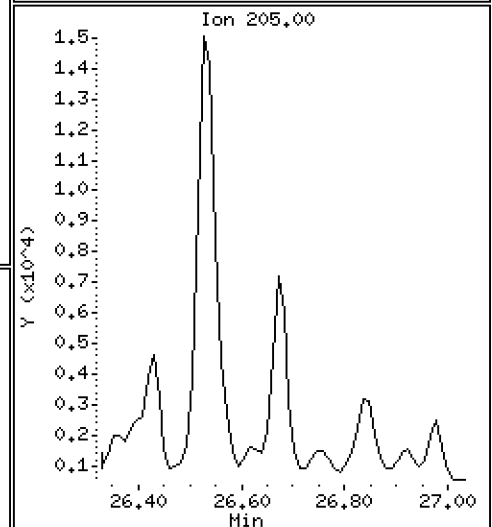
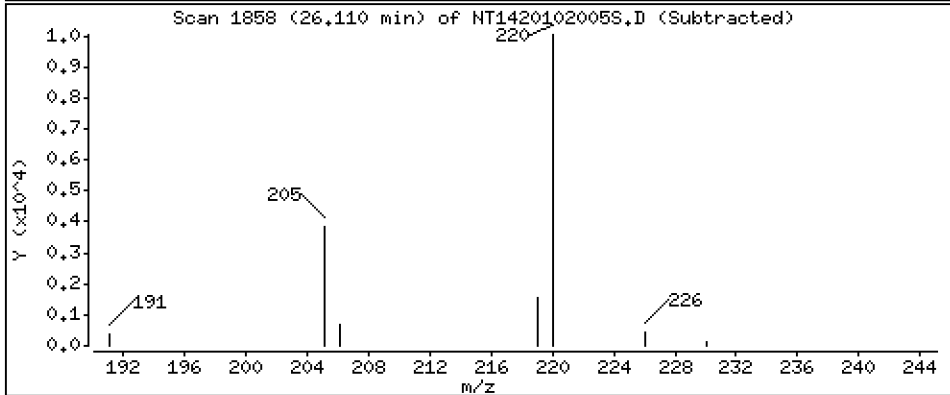
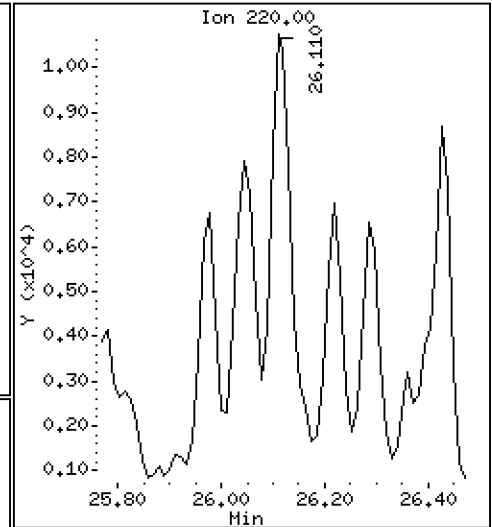
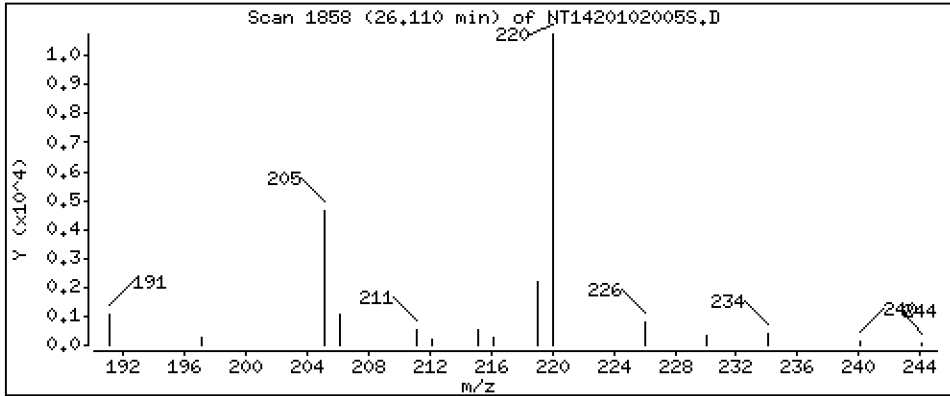
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

40 C3-Phenanthrenes/Anthracenes

Concentration: 8,877 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

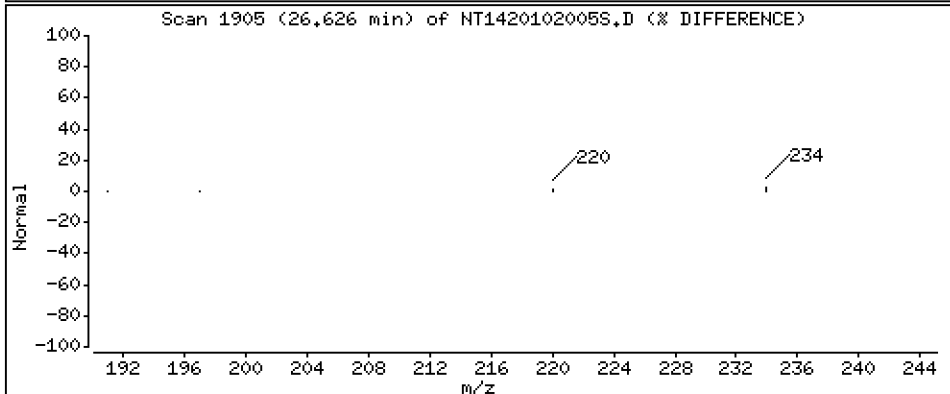
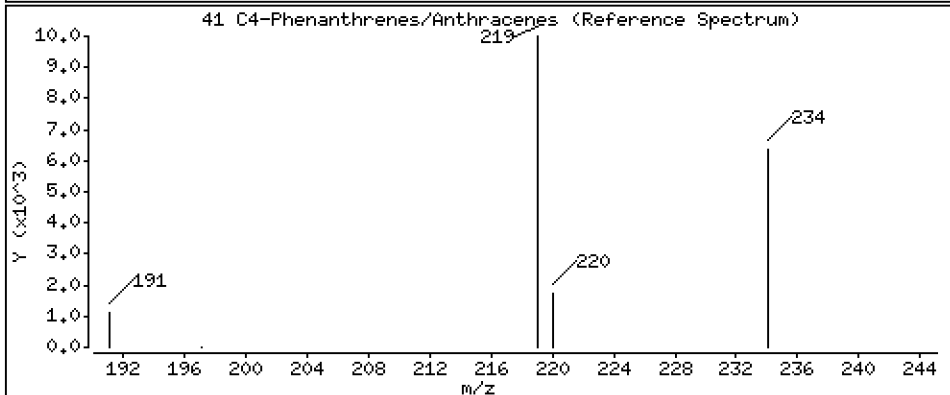
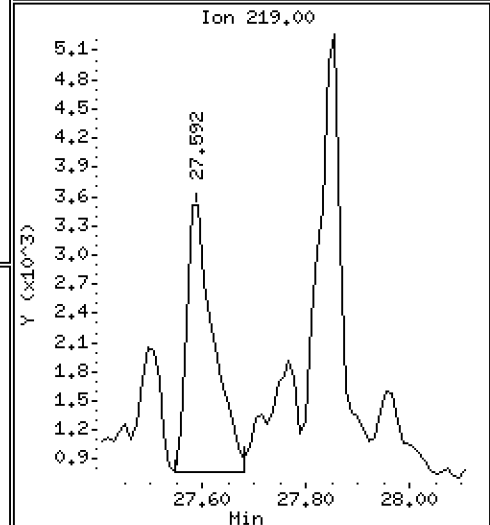
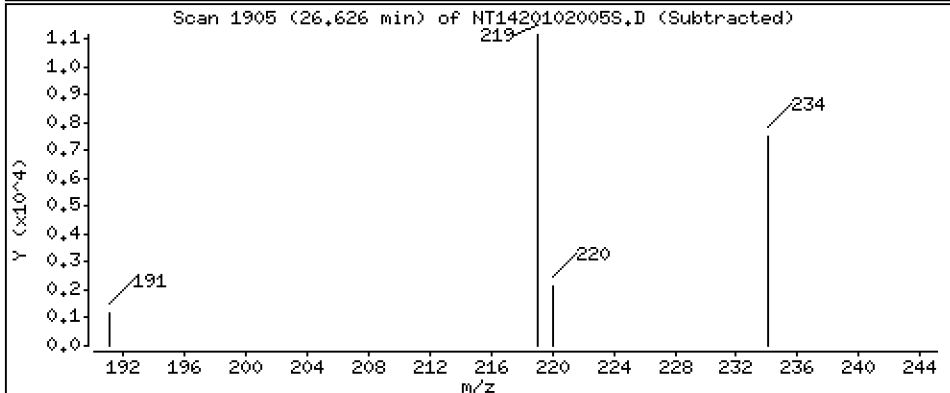
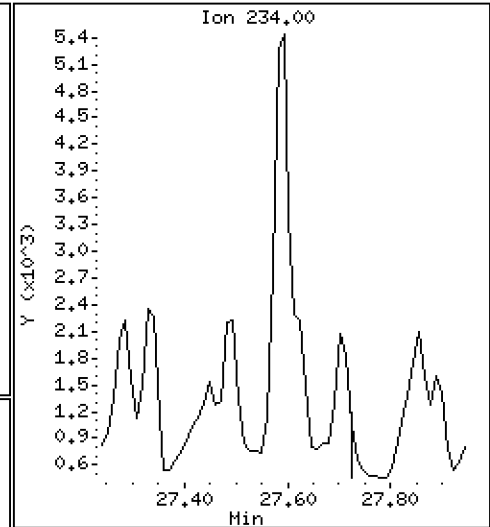
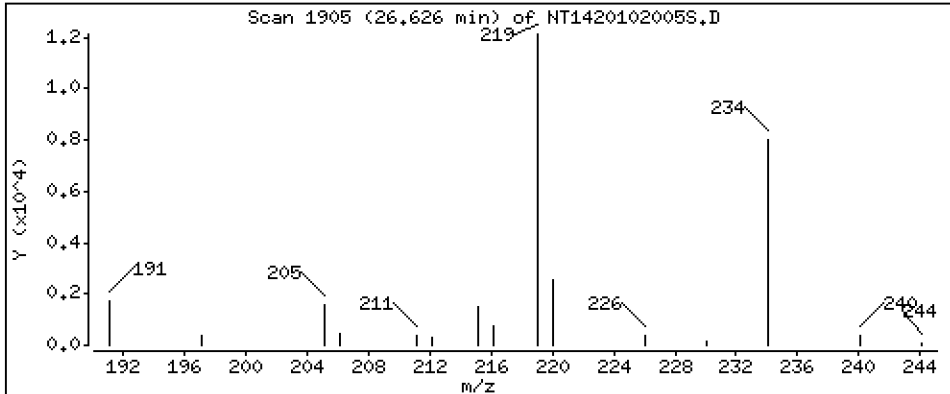
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

41 C4-Phenanthrenes/Anthracenes

Concentration: 3,589 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

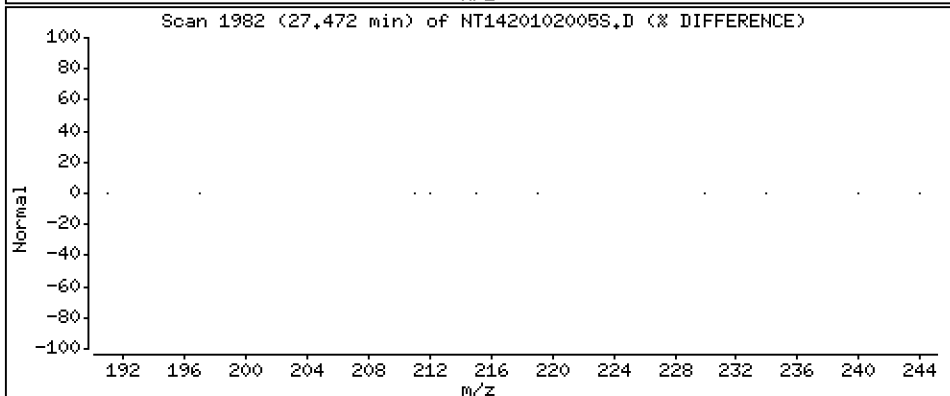
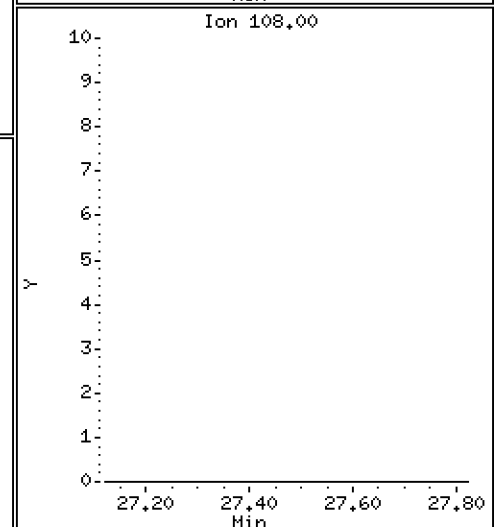
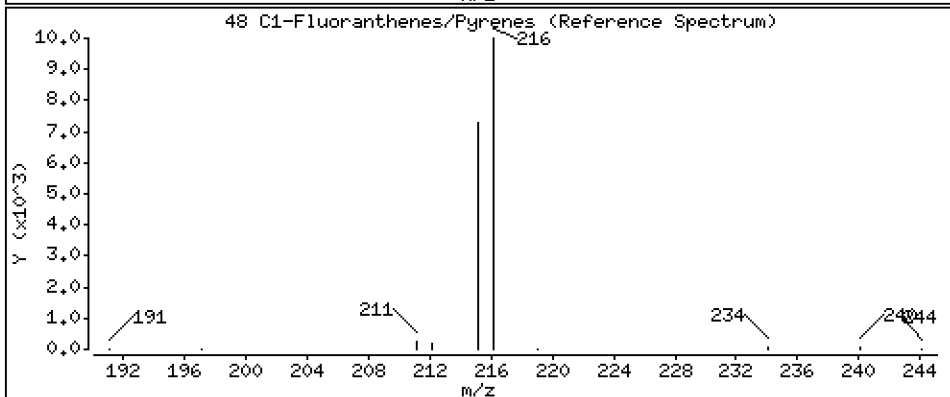
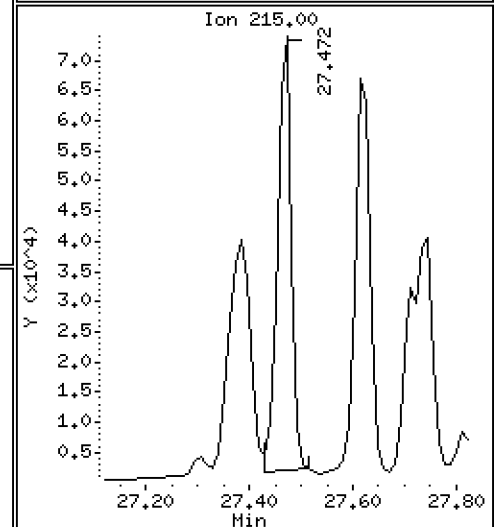
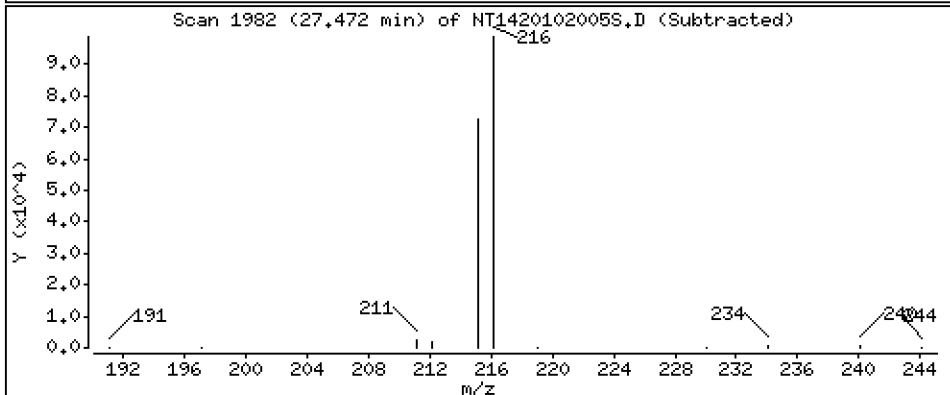
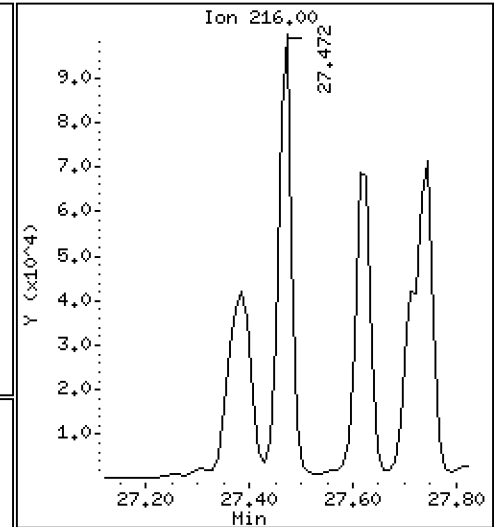
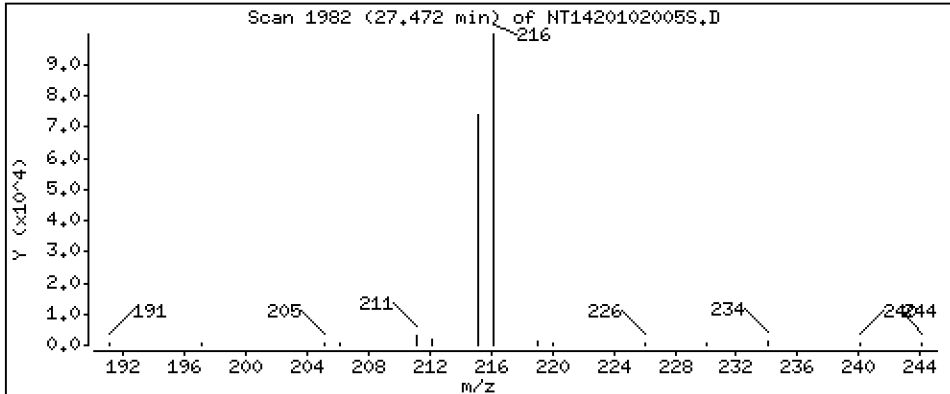
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

48 C1-Fluoranthenes/Pyrenes

Concentration: 37,54 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

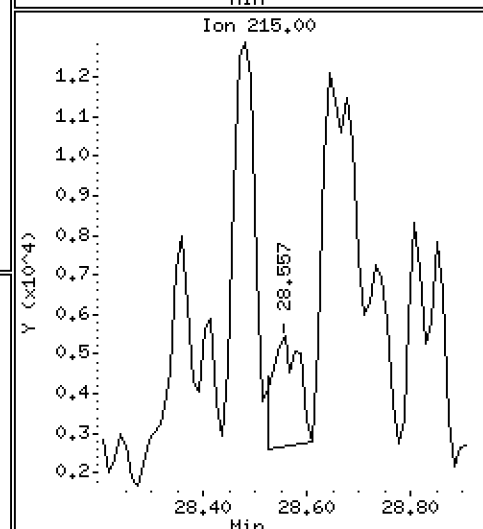
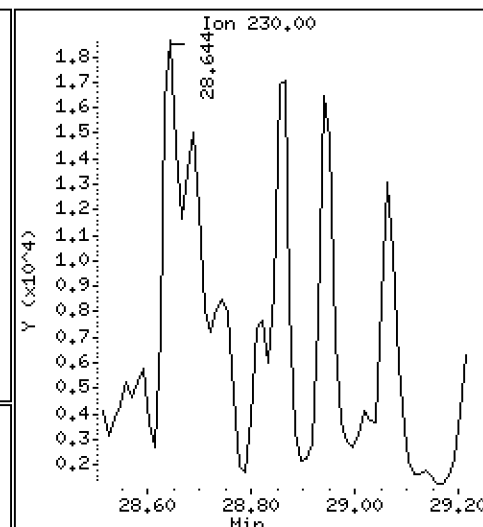
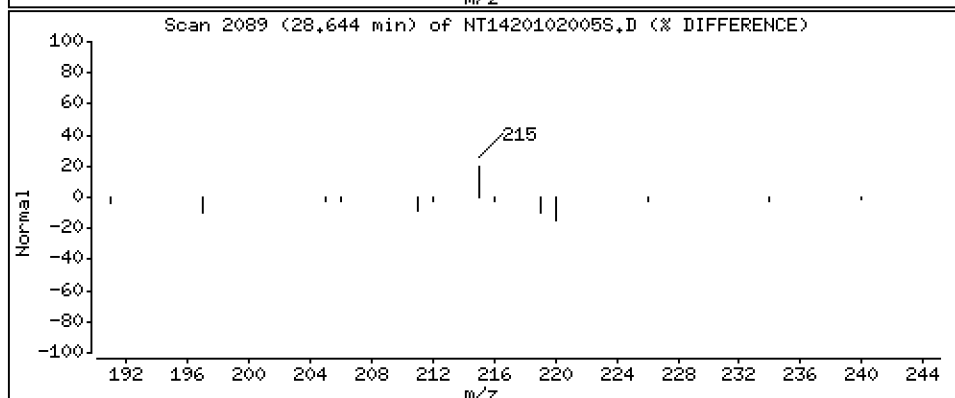
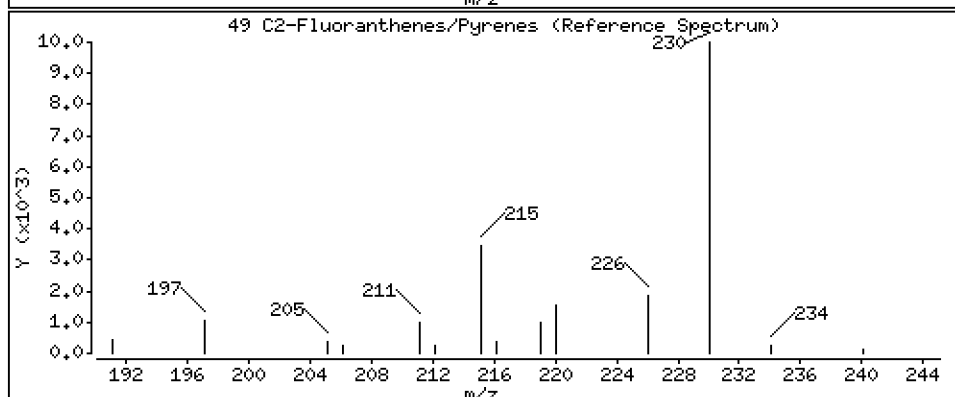
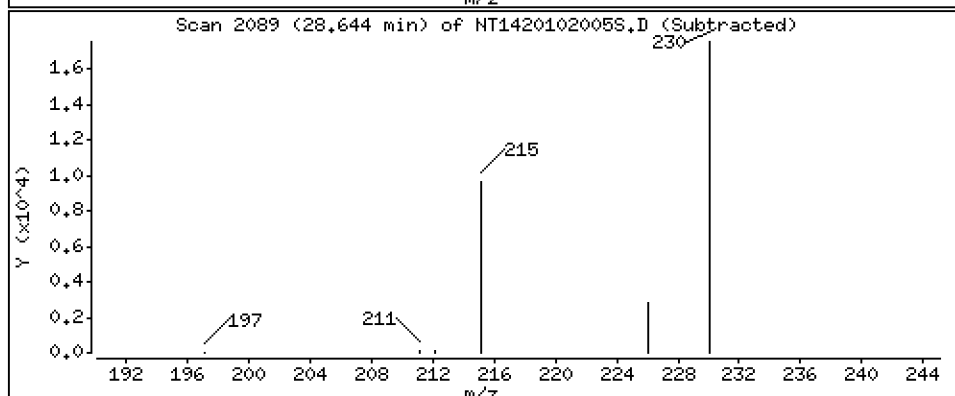
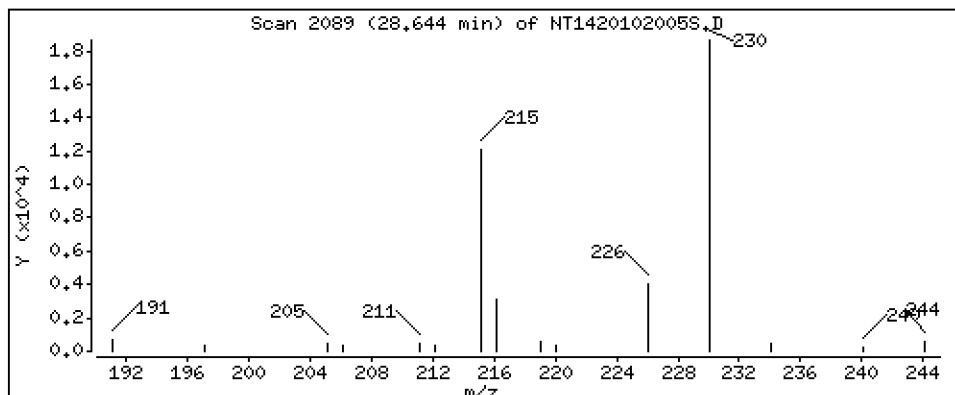
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

49 C2-Fluoranthenes/Pyrenes

Concentration: 16,29 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

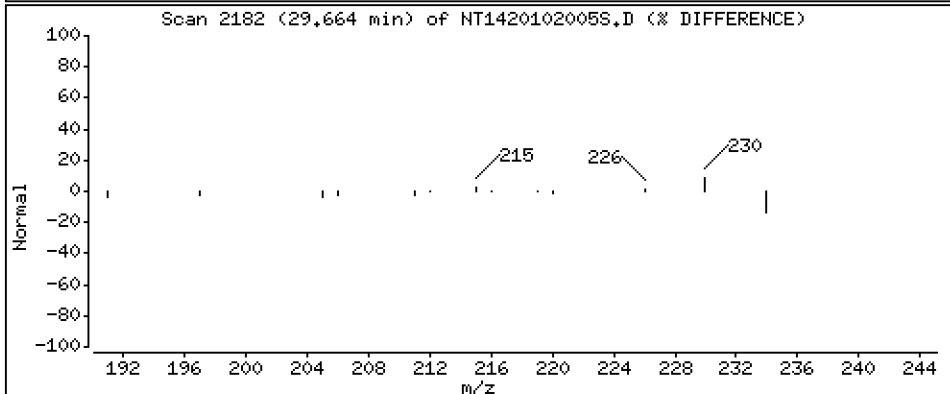
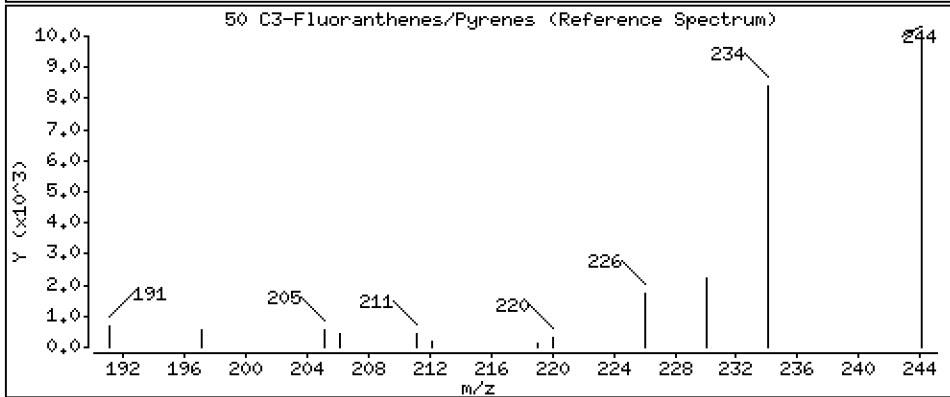
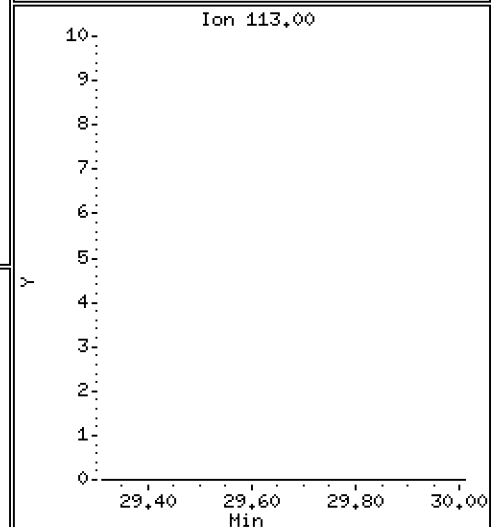
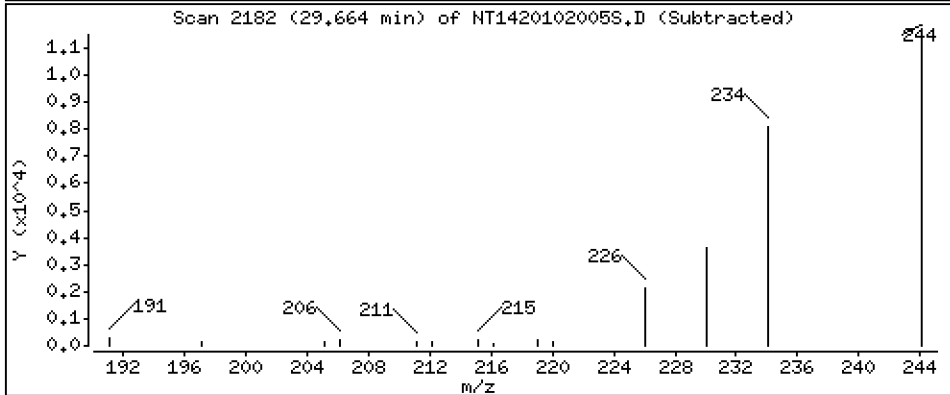
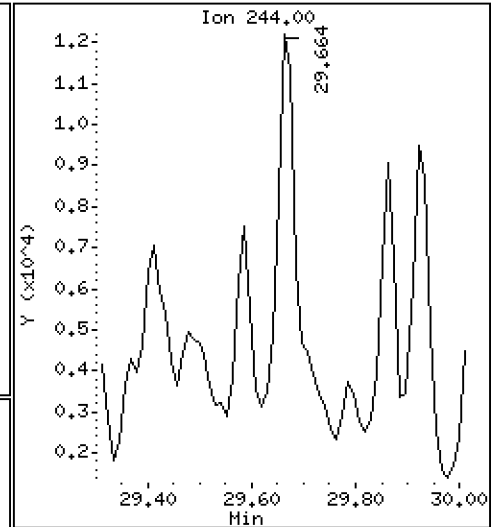
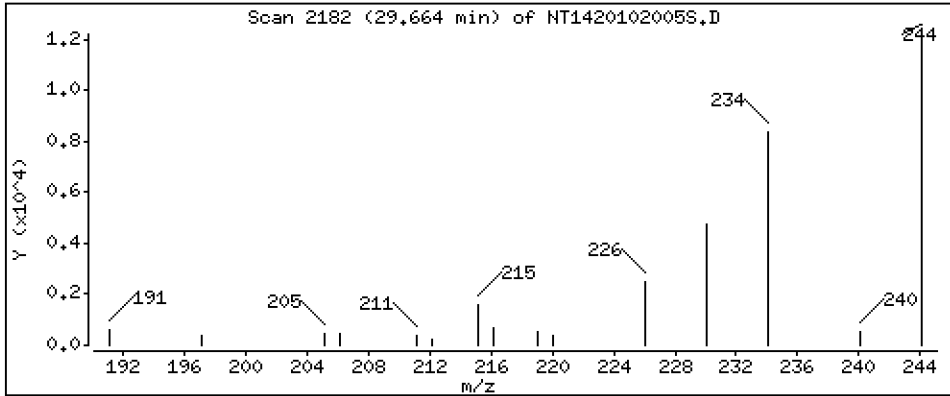
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

50 C3-Fluoranthenes/Pyrenes

Concentration: 9,558 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

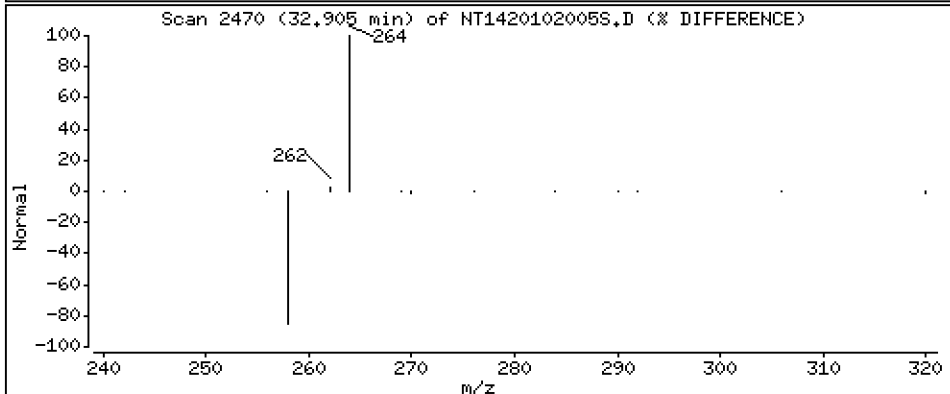
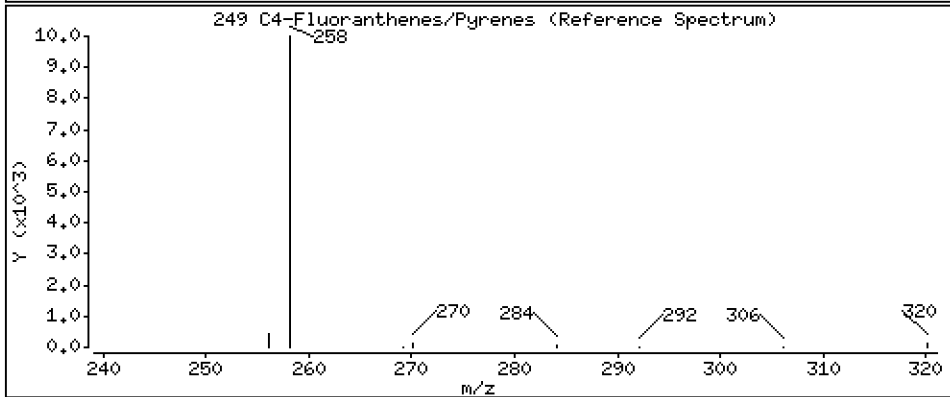
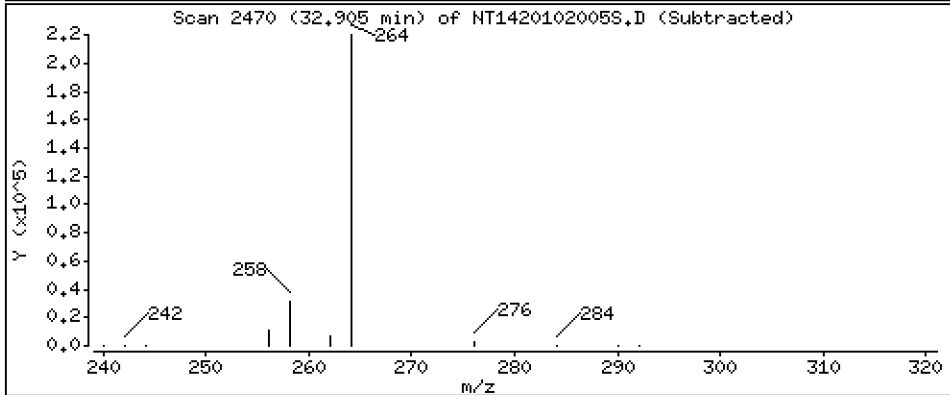
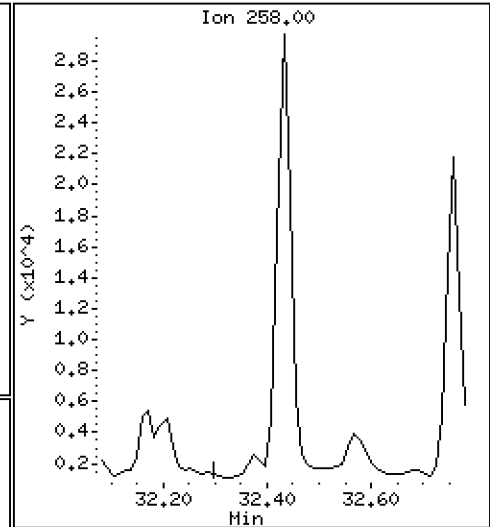
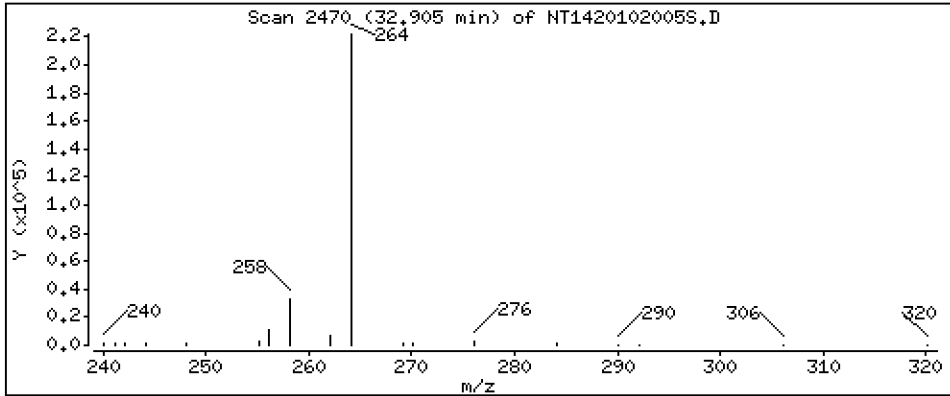
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

249 C4-Fluoranthenes/Pyrenes

Concentration: 7,460 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

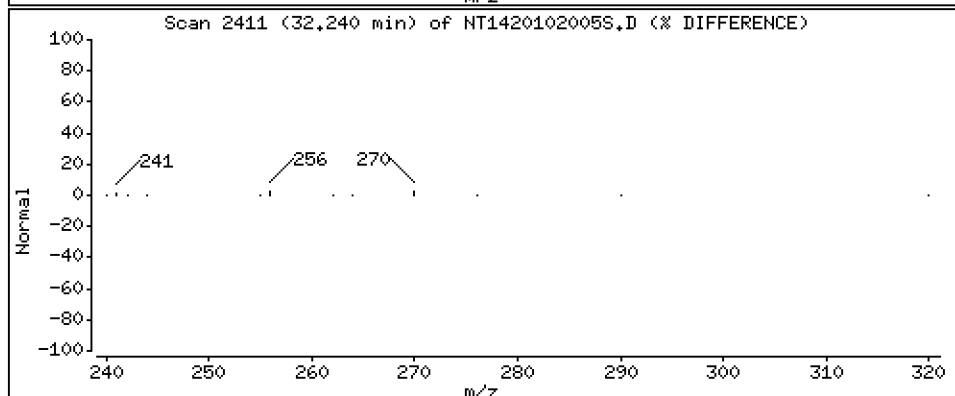
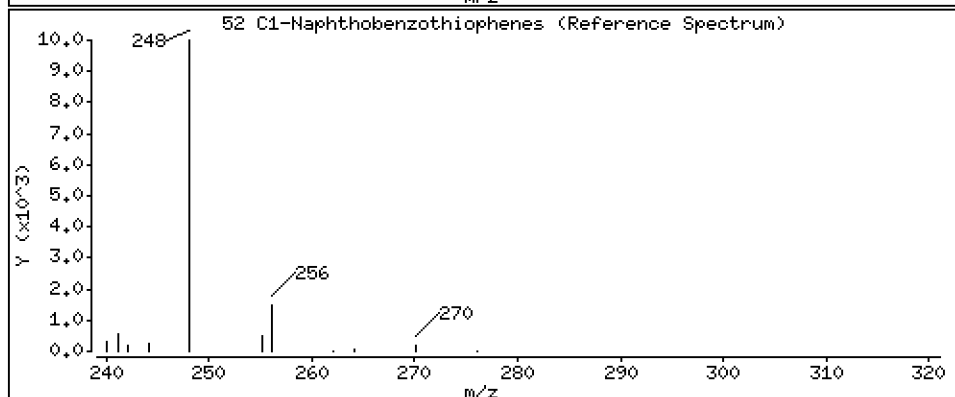
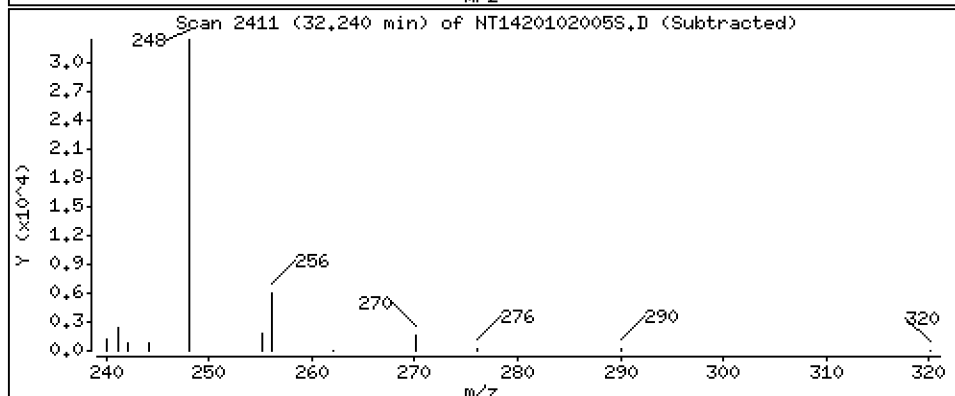
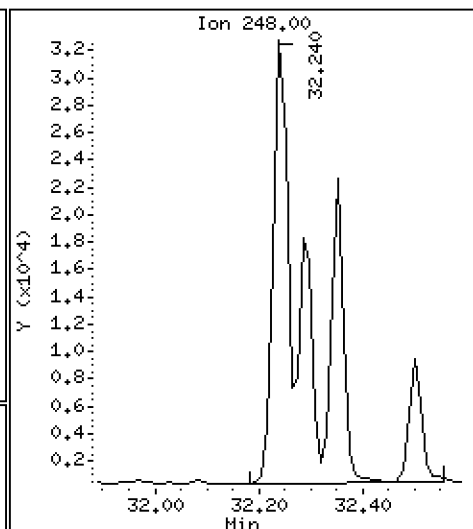
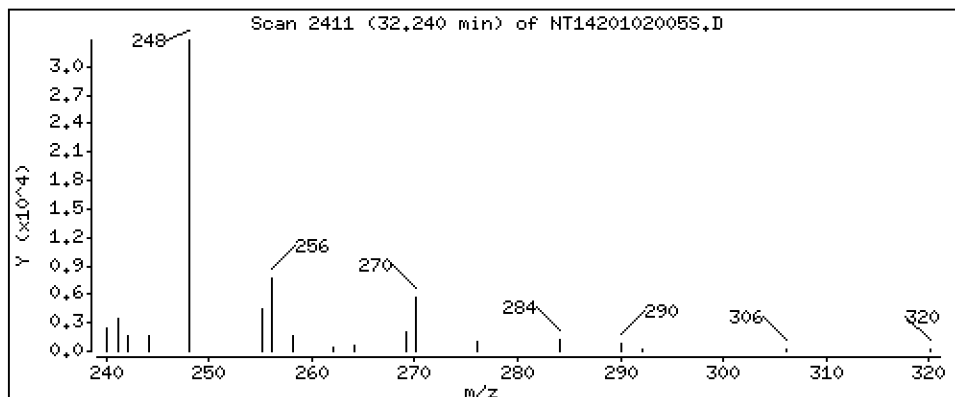
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

52 C1-Naphthobenzothiophenes

Concentration: 4,947 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

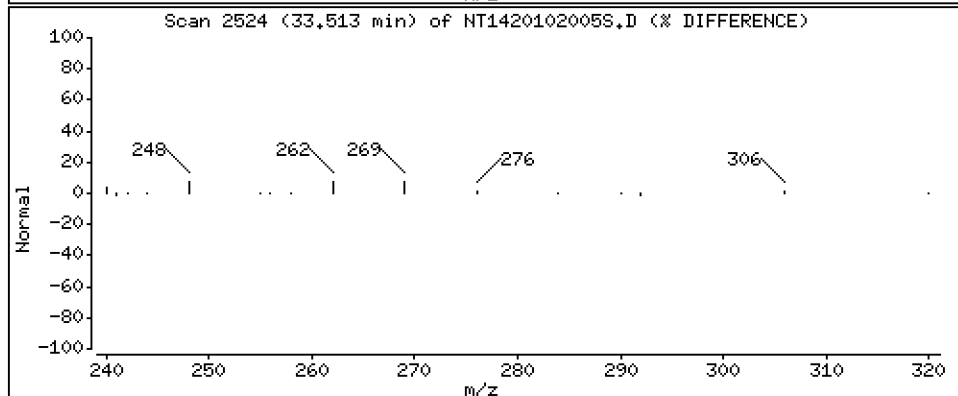
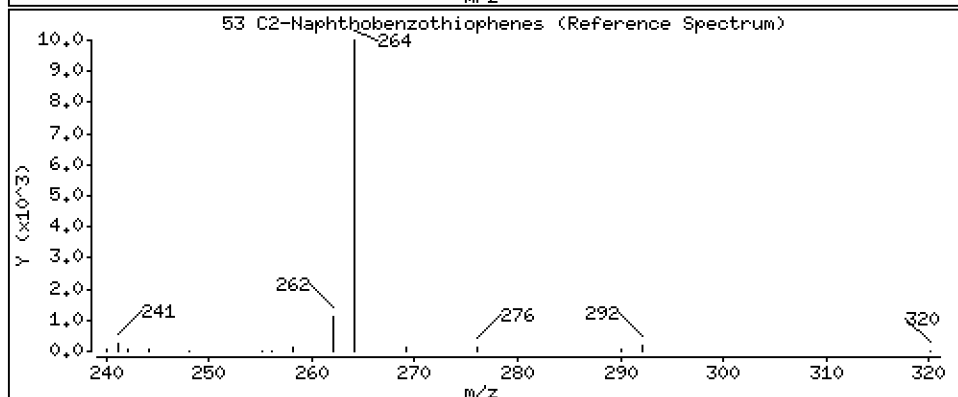
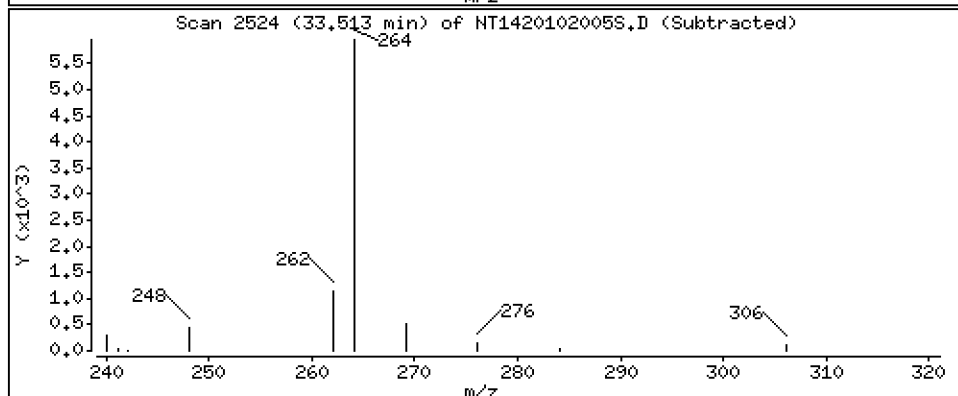
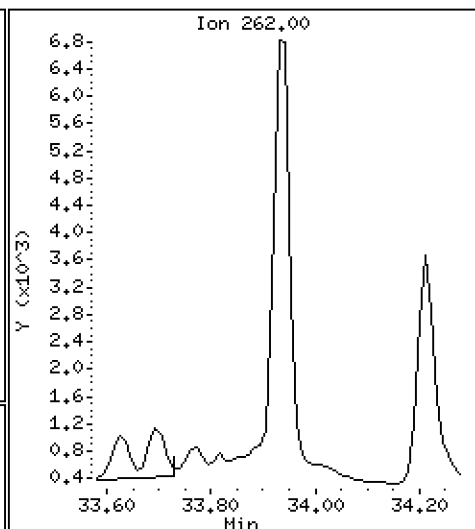
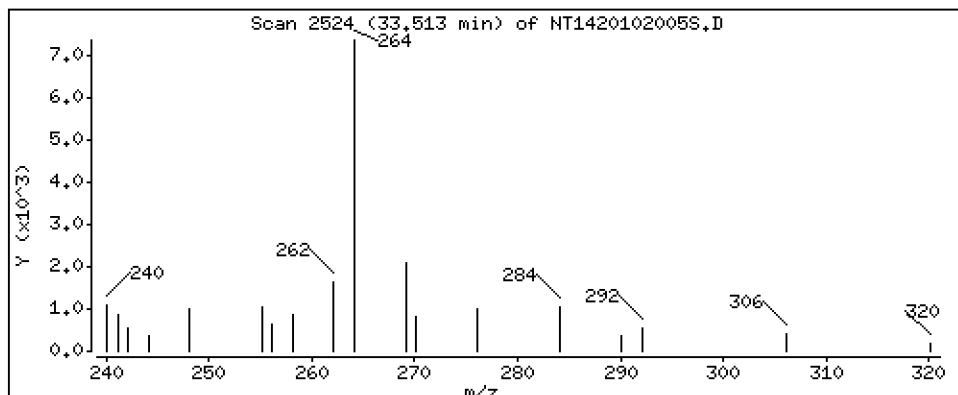
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

53 C2-Naphthobenzothiophenes

Concentration: 0,5872 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

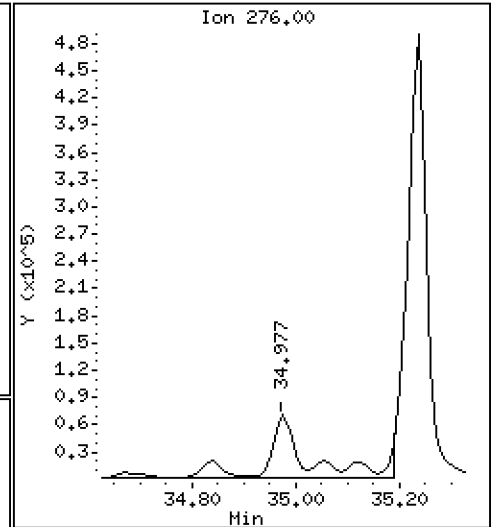
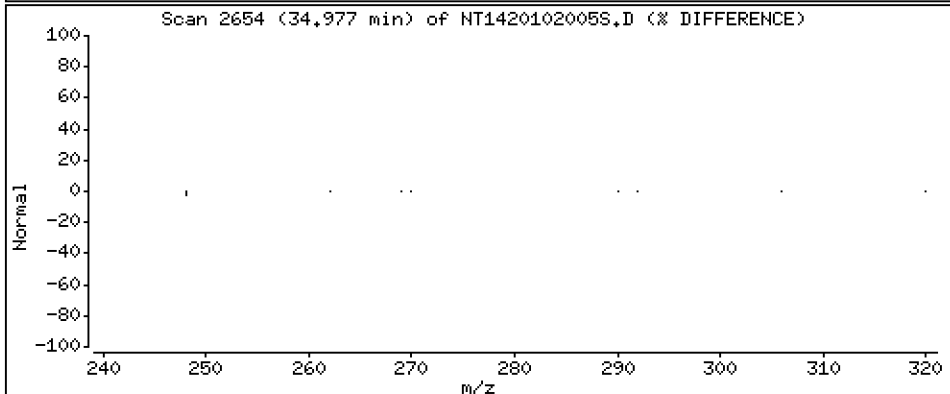
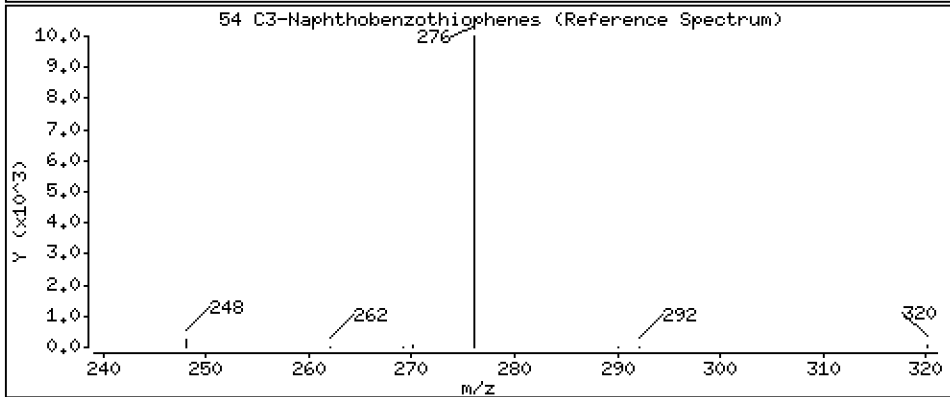
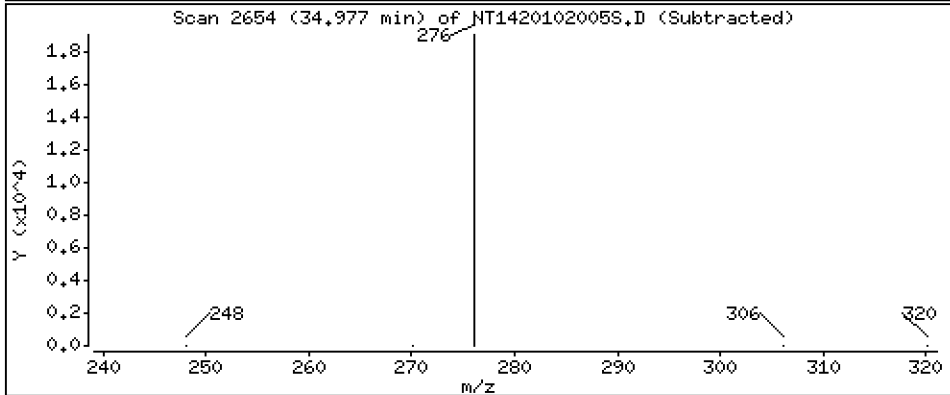
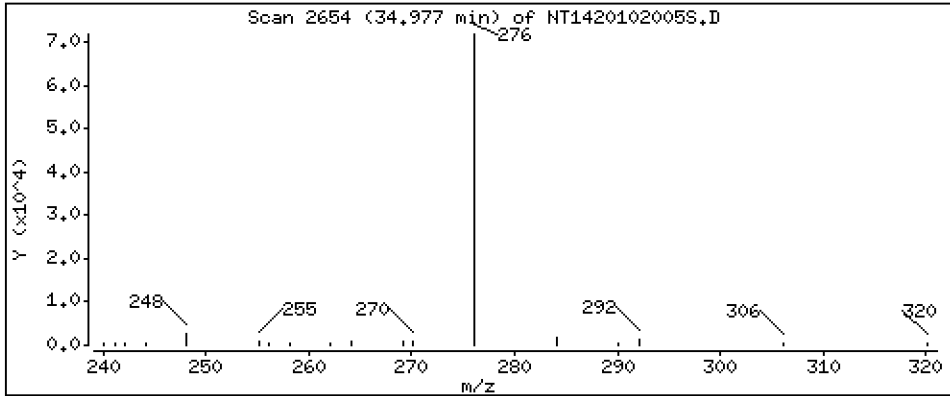
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

54 C3-Naphthobenzothiophenes

Concentration: 15,22 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

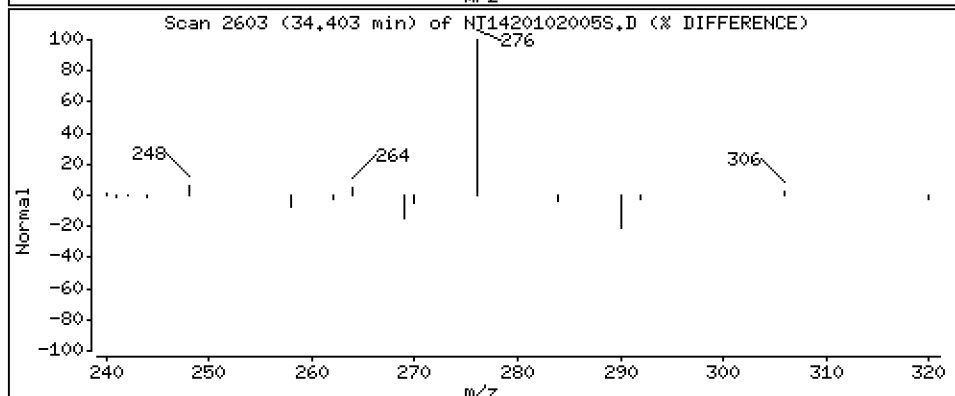
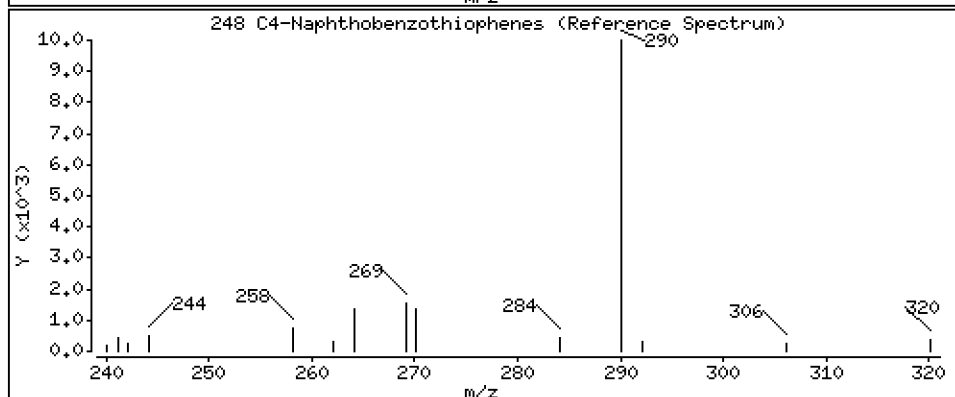
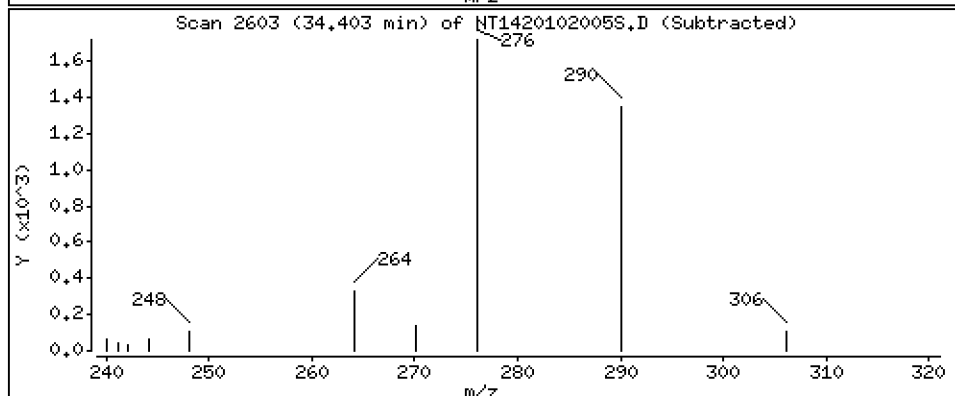
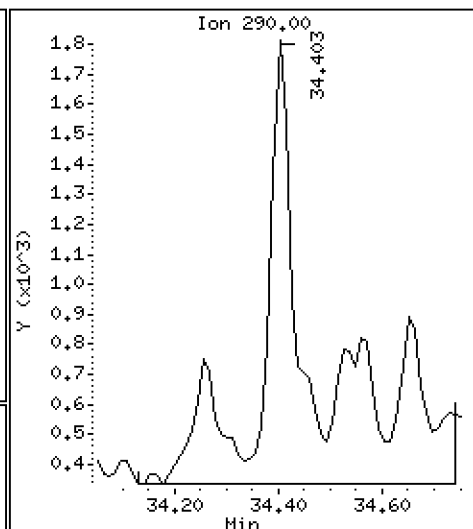
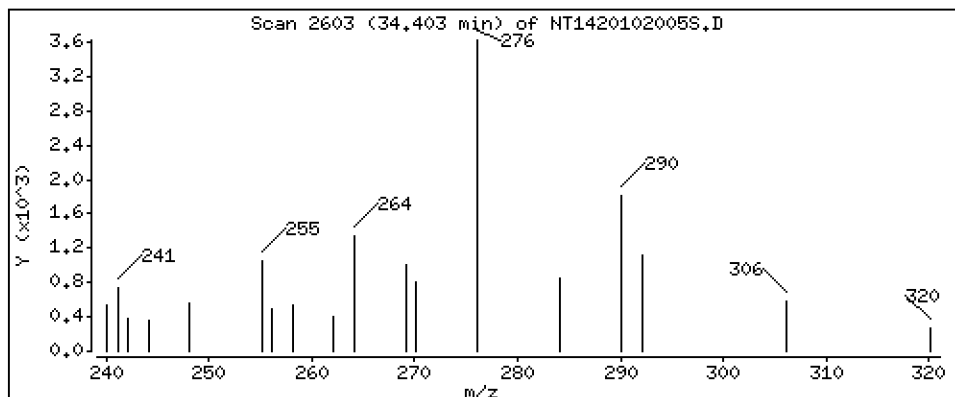
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

248 C4-Naphthobenzothiophenes

Concentration: 0,3740 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

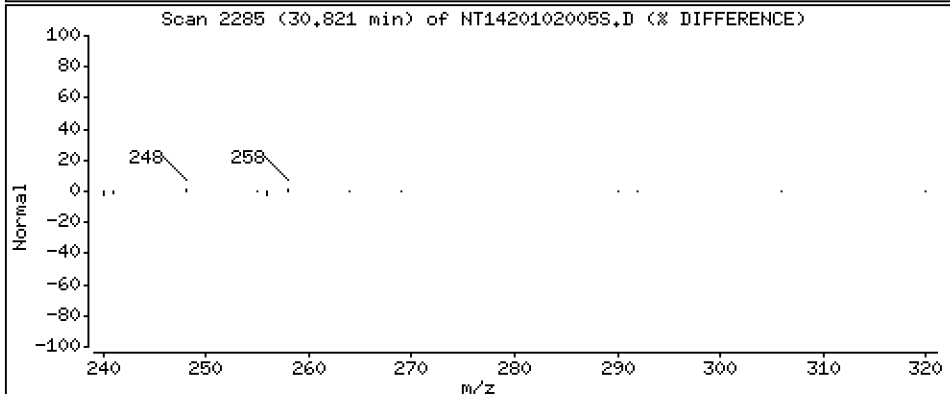
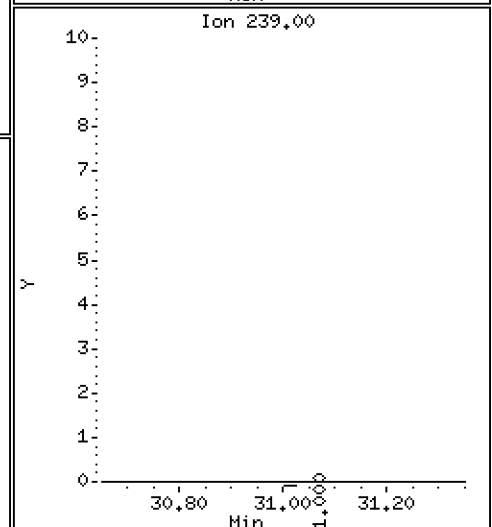
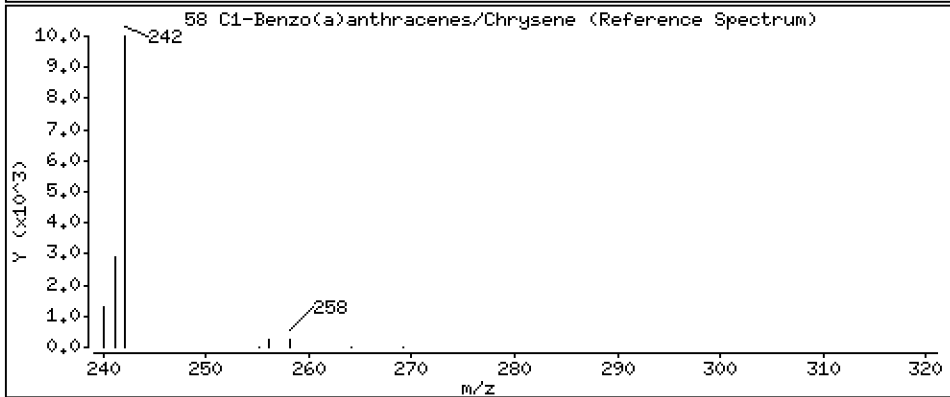
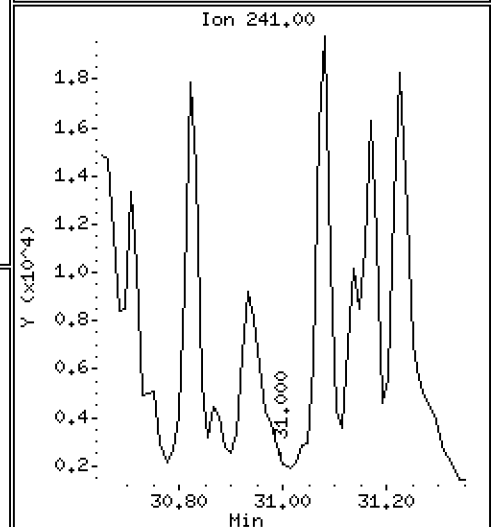
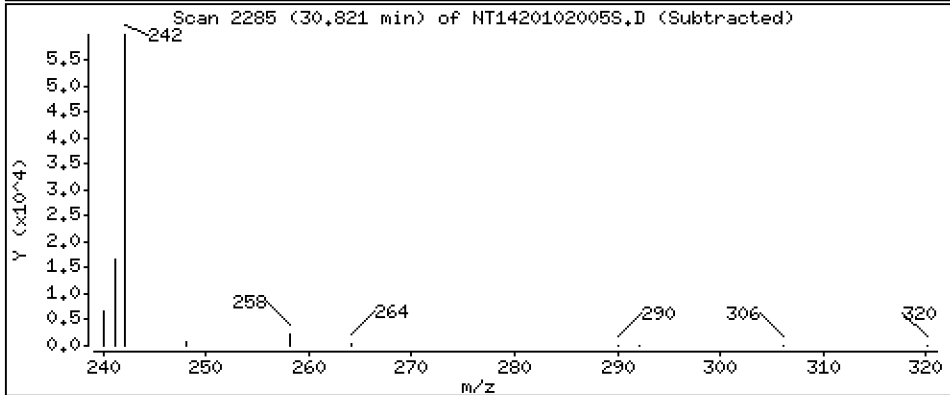
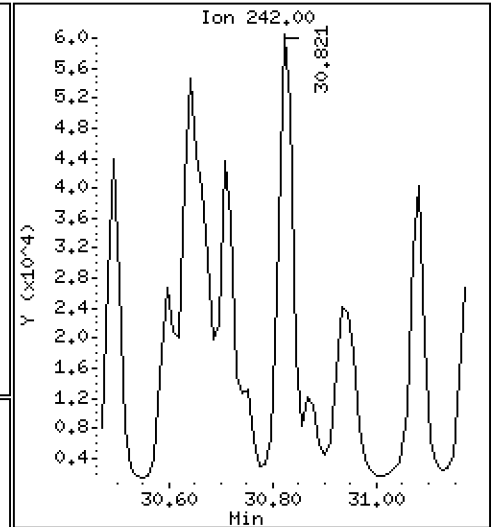
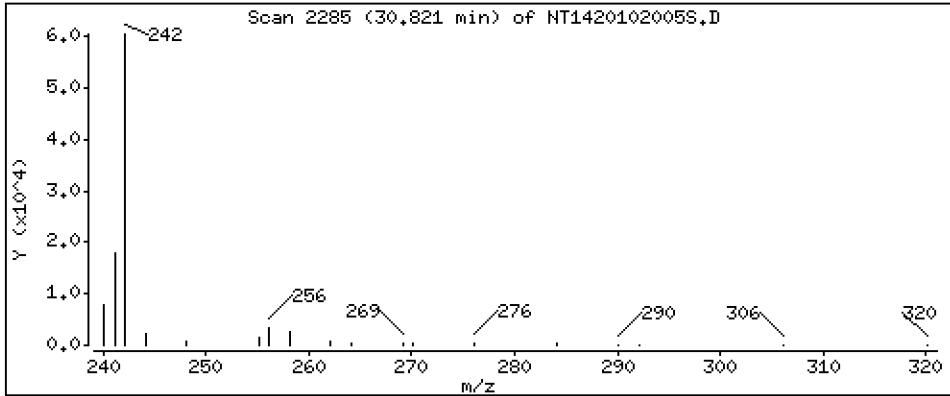
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

58 C1-Benzo(a)anthracenes/Chrysene

Concentration: 28,68 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

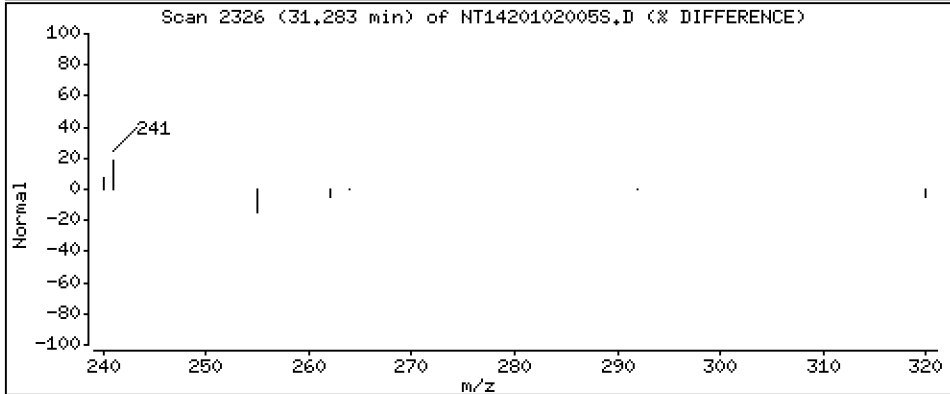
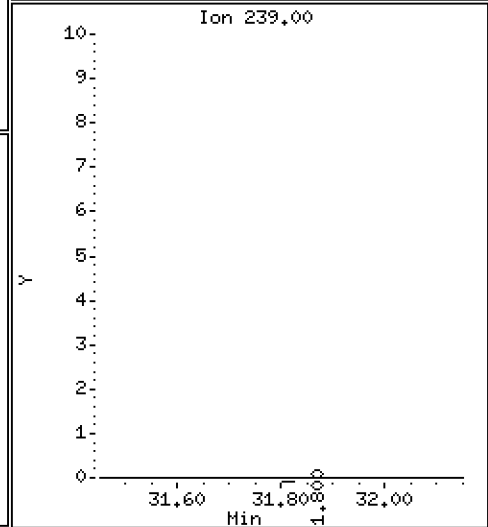
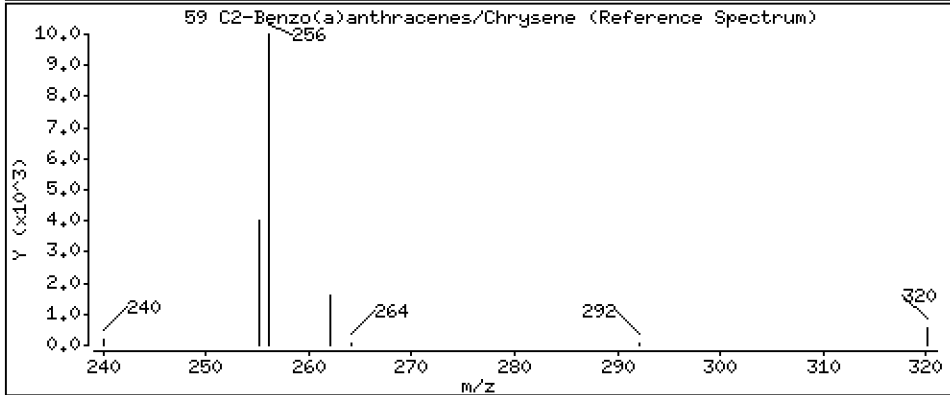
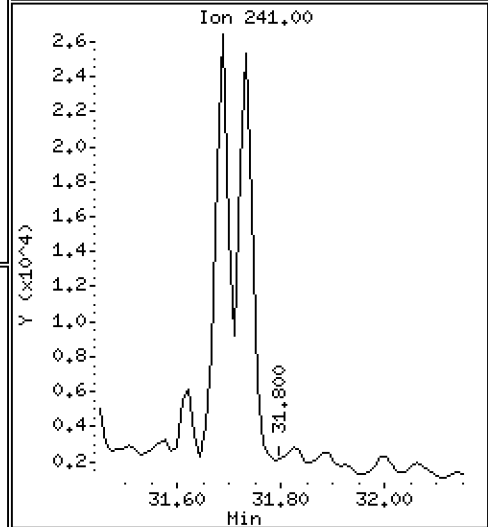
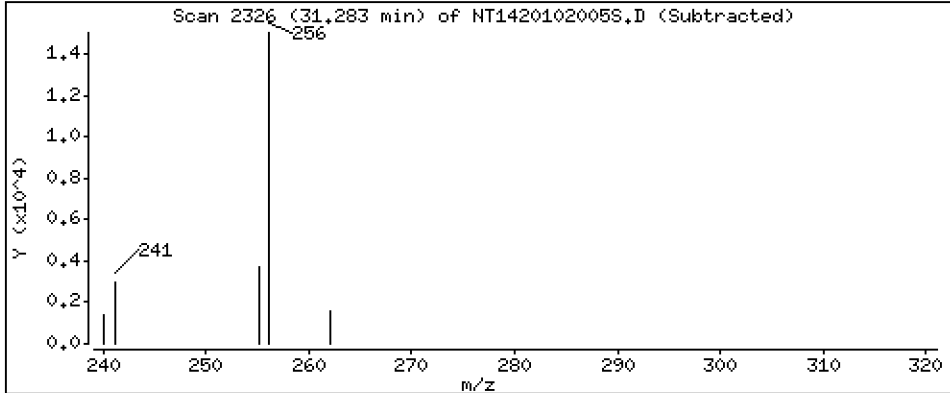
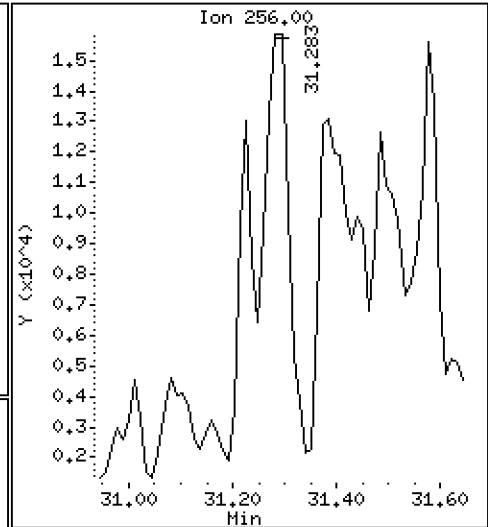
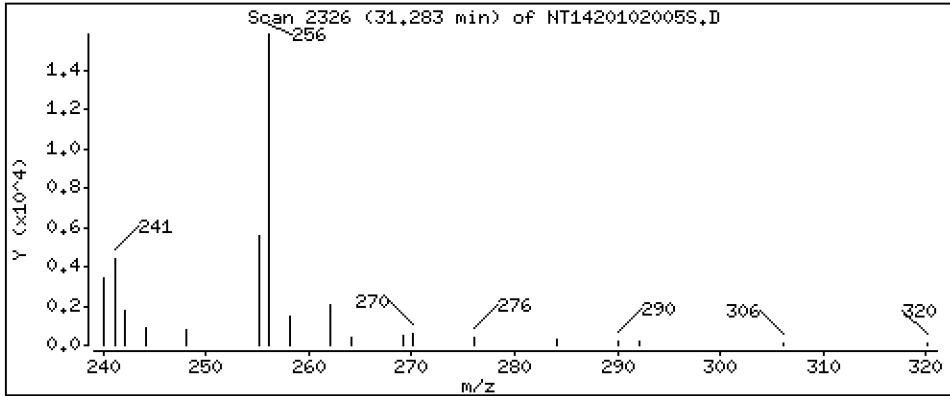
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

59 C2-Benzo(a)anthracenes/Chrysene

Concentration: 14,86 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

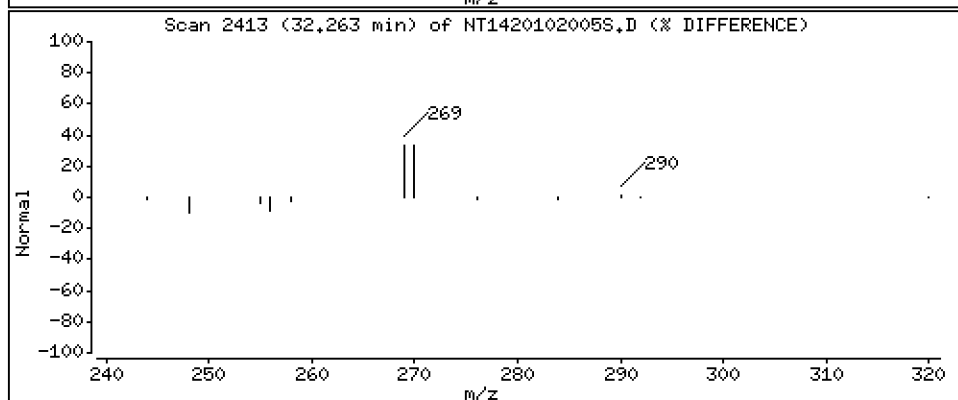
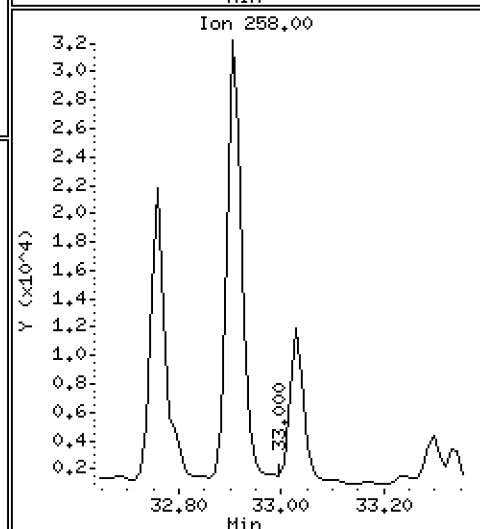
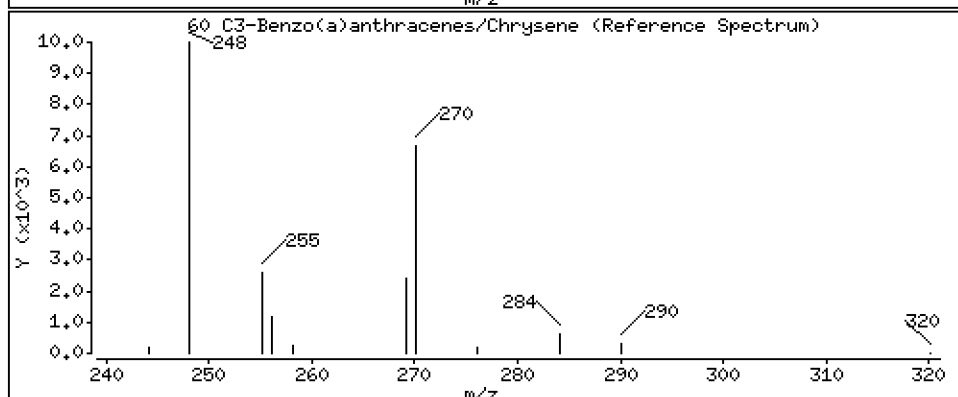
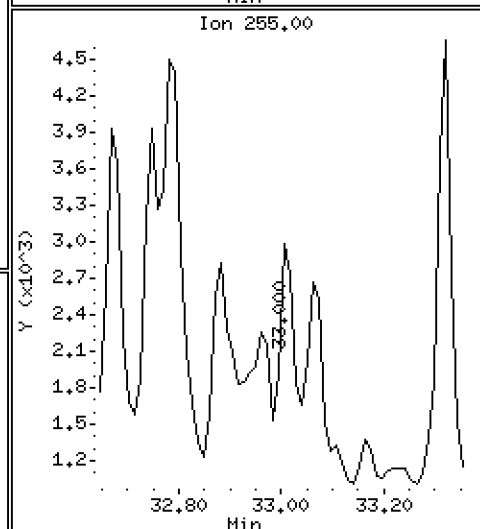
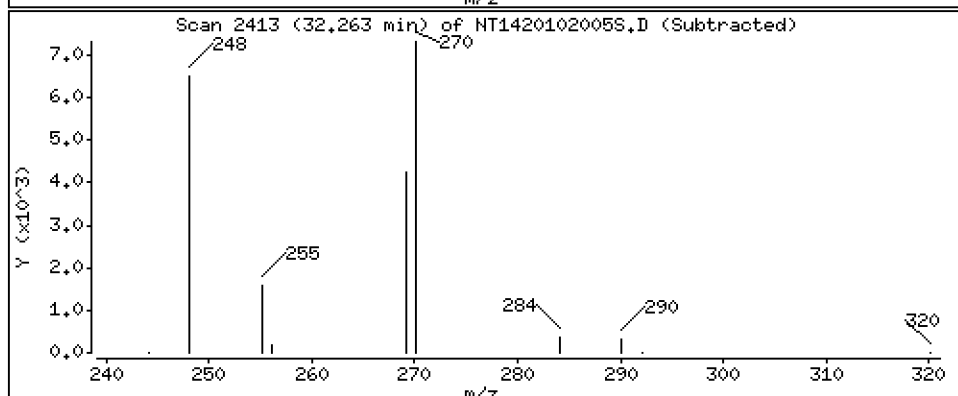
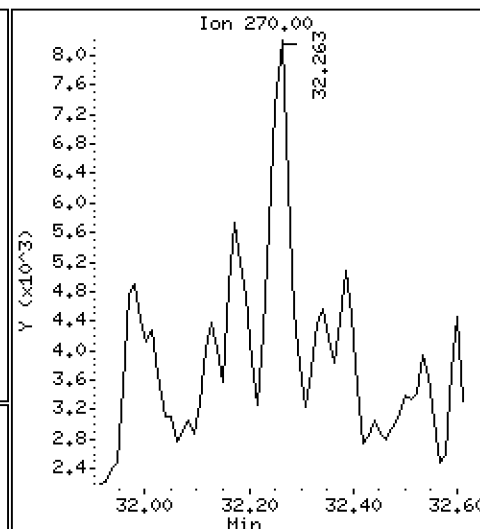
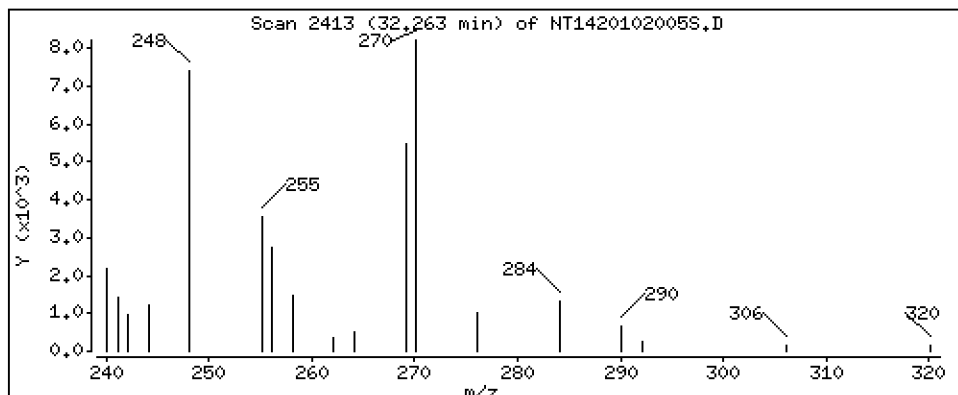
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

60 C3-Benzo(a)anthracenes/Chrysene

Concentration: 6,428 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

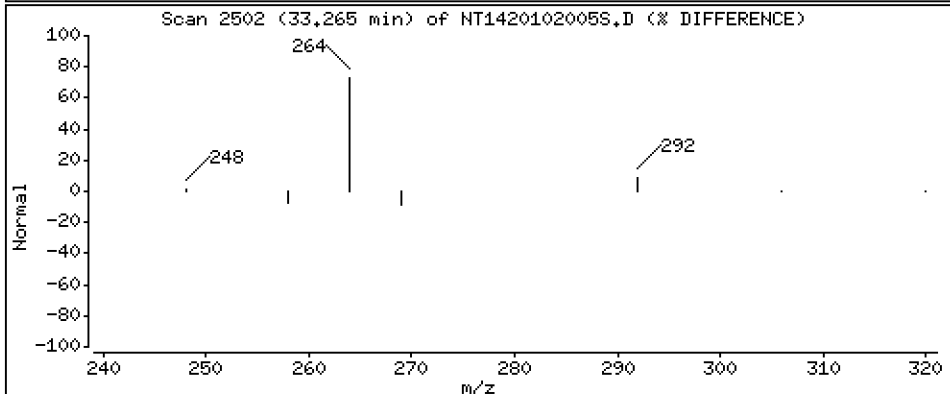
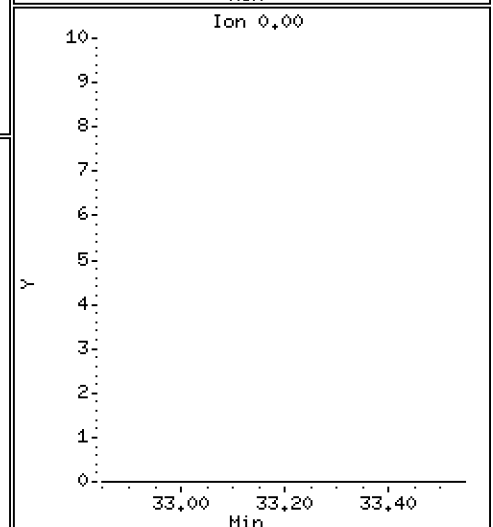
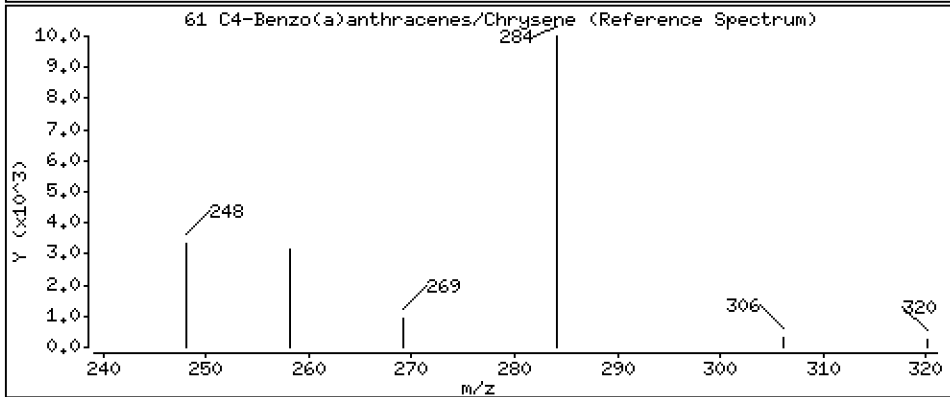
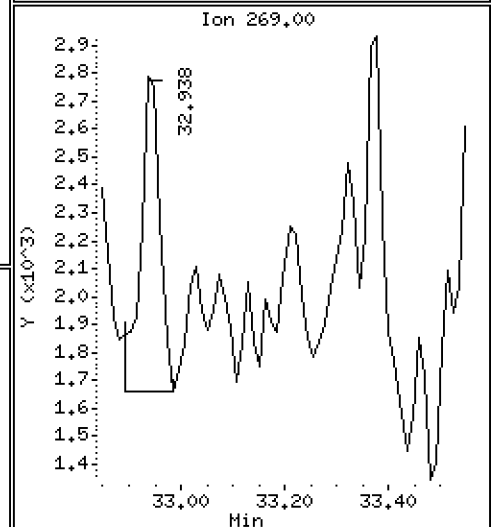
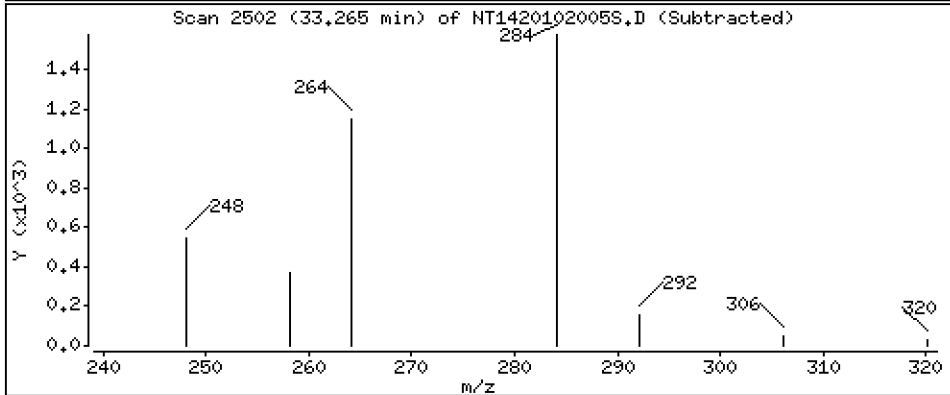
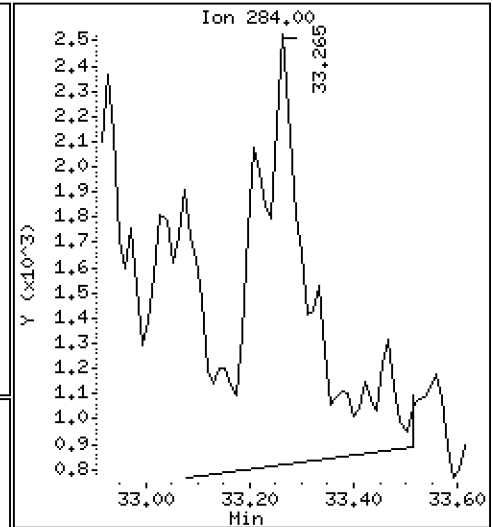
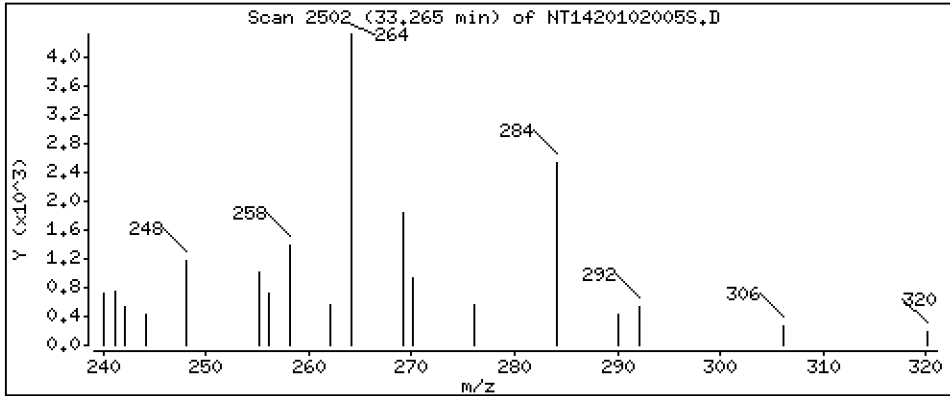
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

61 C4-Benzo(a)anthracenes/Chrysene

Concentration: 1,767 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

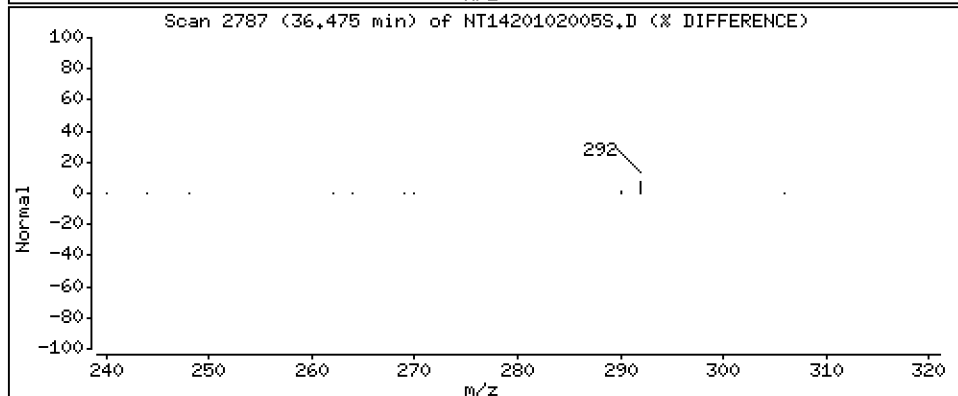
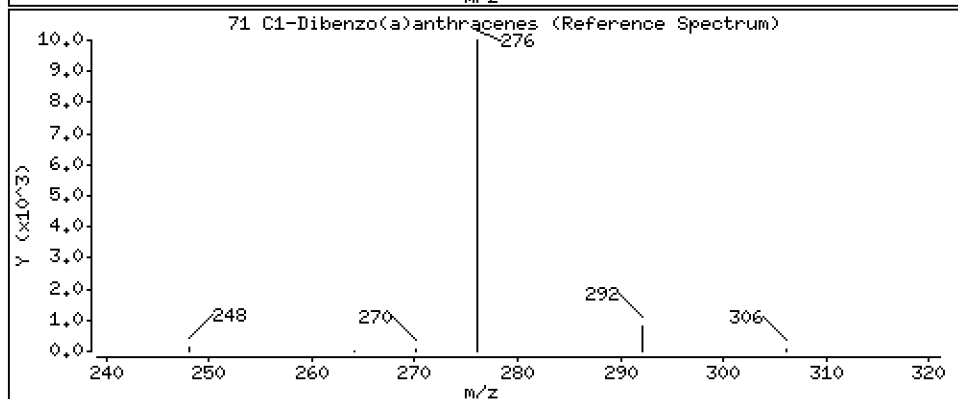
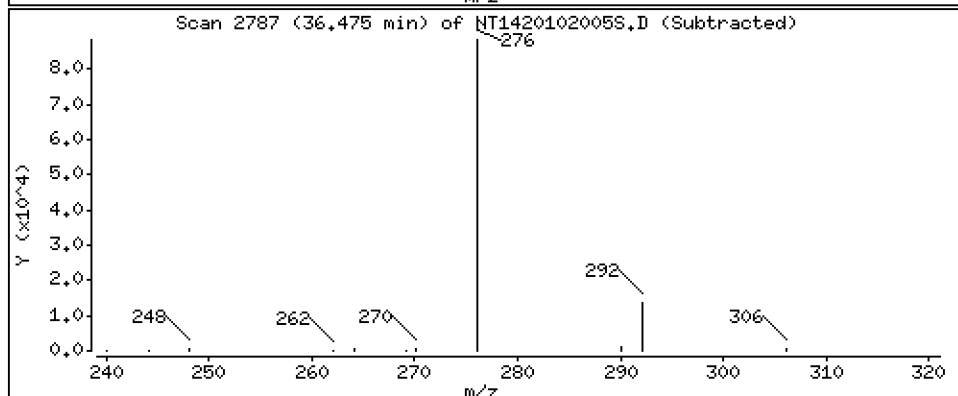
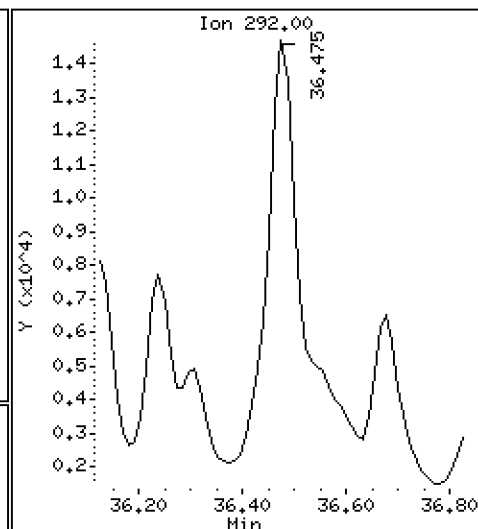
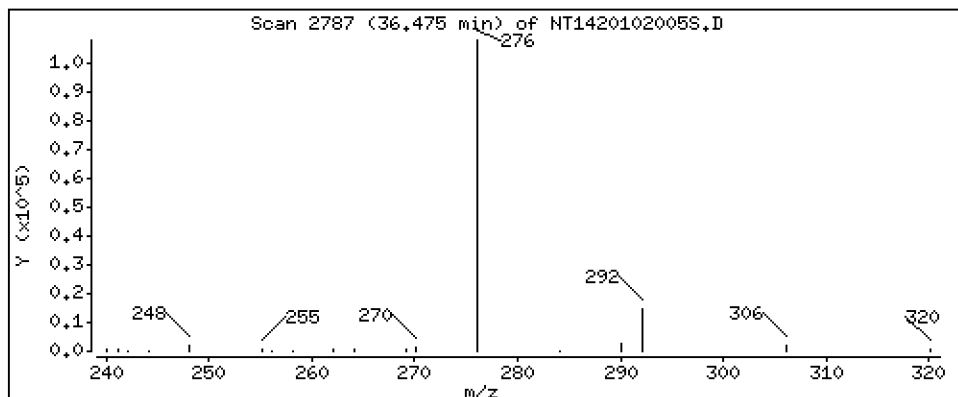
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

71 C1-Dibenzo(a)anthracenes

Concentration: 11,46 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

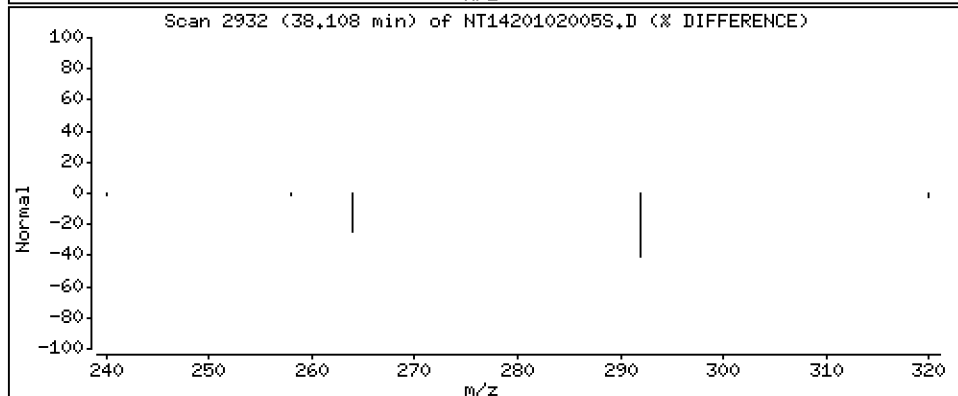
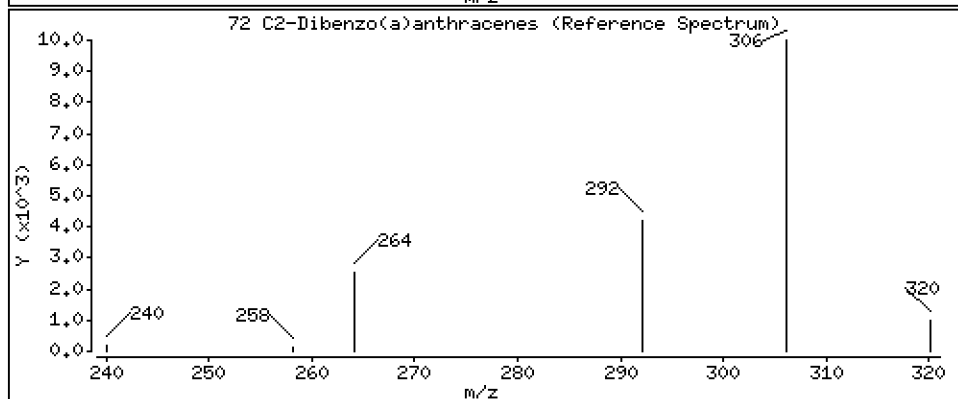
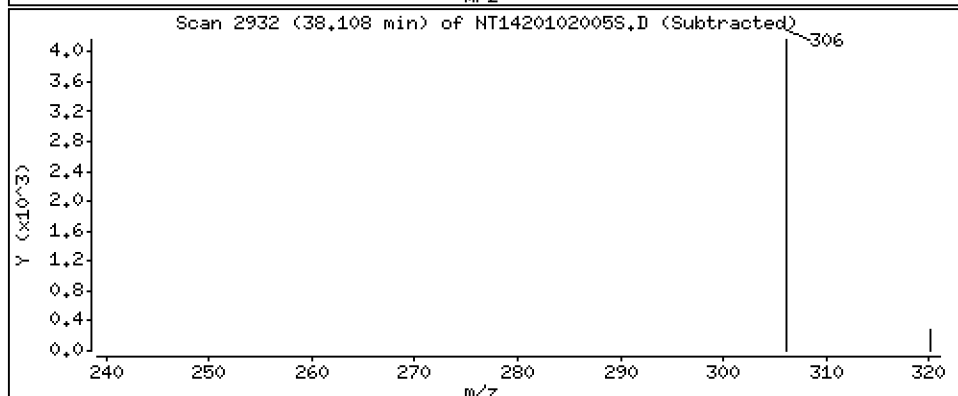
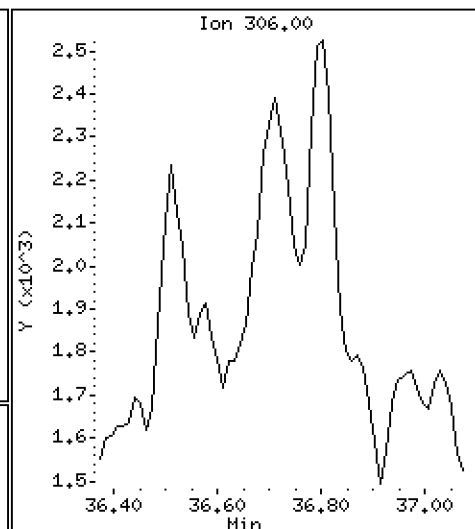
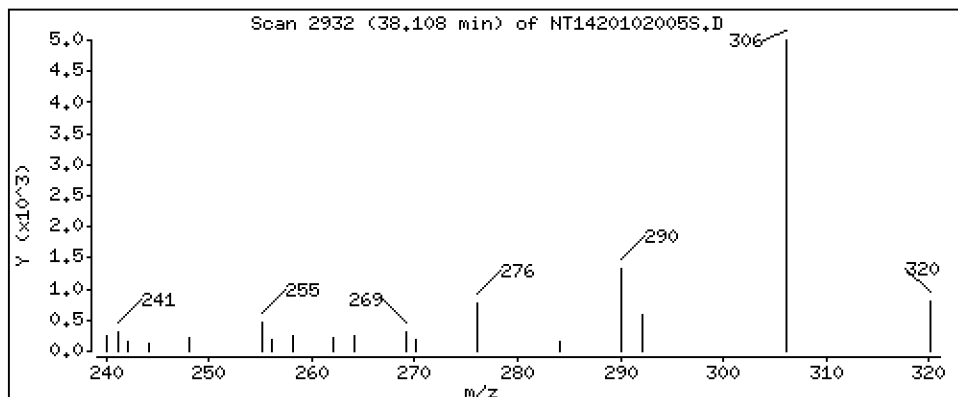
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

72 C2-Dibenzo(a)anthracenes

Concentration: 4,045 ug/mL



Date : 20-OCT-2020 12:35

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01,5

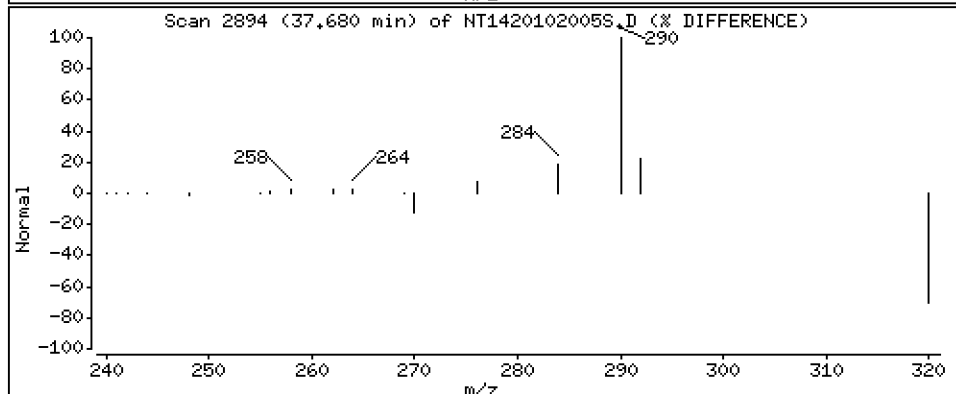
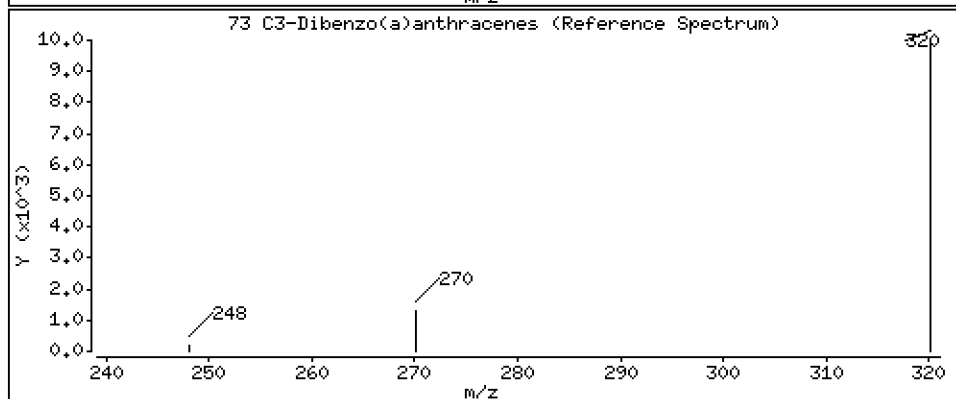
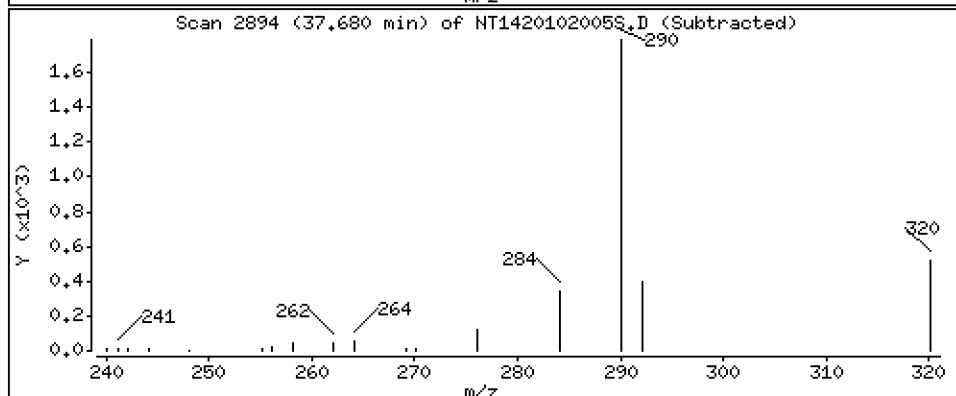
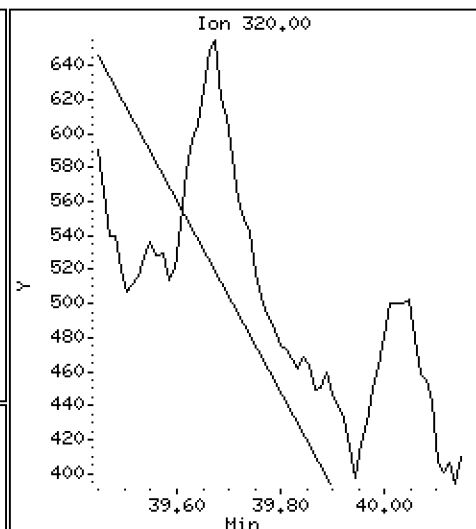
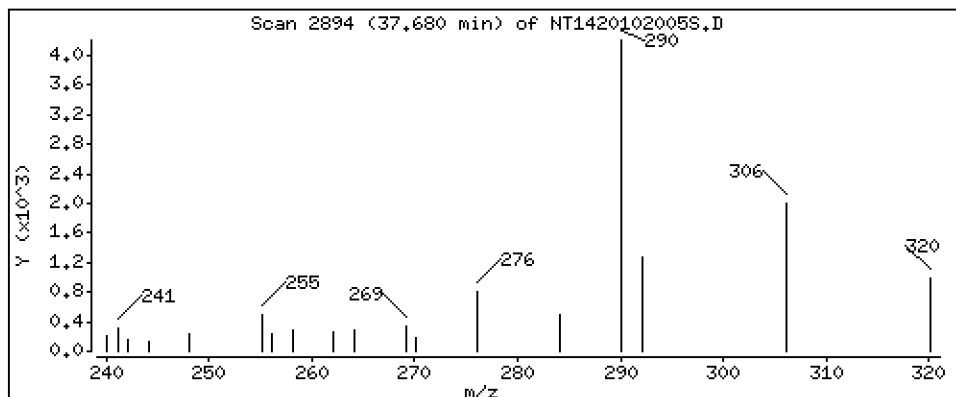
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

73 C3-Dibenzo(a)anthracenes

Concentration: 1,199 ug/mL



ARI Labs, Inc.

Semivolatle Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201020.b\SIM.b\NT1420102005S.D
 Lab Smp Id: 20J0121-01
 Inj Date : 20-OCT-2020 12:35
 Operator : VTS
 Smp Info : 20J0121-01,5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201020.b\SIM.b\ALKYLRANGE.m
 Meth Date : 23-Oct-2020 15:30 yev
 Cal Date : 17-OCT-2020 17:58
 Als bottle: 5
 Dil Factor: 5.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

Inst ID: nt14.i

Quant Type: ISTD
 Cal File: NT1420101709S.D

Compound Sublist: ALKYLRANGES.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN	FINAL	
	MASS						(ug/mL)	(ug/mL)	
3 C1-Decalin	152		Compound Not Detected.						
4 C2-Decalin	166		8.883	8.913	(0.477)	1305	0.17870	0.8935 (M)	
5 C3-Decalin	180		10.234	10.234	(0.550)	1078	0.14762	0.7381 (M)	
247 C4-Decalin	194		11.730	10.100	(0.630)	689	0.09435	0.4717 (M)	
8 C1-Naphthalenes	142		13.522	13.972	(0.727)	47700	0.50320	2.516 (M)	
9 C2-Naphthalenes	156		15.643	15.643	(0.840)	78001	0.82285	4.114 (M)	
10 C3-Naphthalenes	170		17.500	17.500	(0.940)	91142	0.96148	4.807 (M)	
11 C4-Naphthalenes	184		19.190	19.190	(1.031)	77081	0.81315	4.066 (M)	
13 C1-Benzothiophenes	148		13.961	14.939	(0.750)	4521	0.05726	0.2863 (M)	
14 C2-Benzothiophenes	162		15.555	15.544	(0.836)	12589	0.15944	0.7972 (M)	
15 C3-Benzothiophenes	176		Compound Not Detected.						
27 C1-Fluorenes	180		20.142	20.255	(1.082)	50165	0.65039	3.252 (M)	
28 C2-Fluorenes	194		20.732	20.743	(1.114)	4236	0.05492	0.2746 (M)	
29 C3-Fluorenes	208		23.119	23.130	(1.242)	54925	0.71210	3.561 (M)	
31 C1-Dibenzothiophenes	198		23.086	22.756	(1.240)	50658	0.45635	2.282 (M)	
* 25 Fluorene-d10	176		18.611	18.611	(1.000)	232212	2.00000		
32 C2-Dibenzothiophenes	212		24.163	24.163	(1.298)	89073	0.80241	4.012 (M)	
33 C3-Dibenzothiophenes	226		25.053	25.054	(1.346)	77769	0.70058	3.503 (M)	
34 C4-Dibenzothiophenes	240		26.901	26.186	(1.445)	37537	0.33815	1.691 (M)	
38 C1-Phenanthrenes/Anthracenes	192		23.404	23.404	(1.061)	490334	3.64443	18.22 (M)	
39 C2-Phenanthrenes/Anthracenes	206		25.174	24.922	(1.142)	380461	2.82779	14.14 (M)	
40 C3-Phenanthrenes/Anthracenes	220		26.109	26.120	(1.184)	238858	1.77532	8.877 (M)	
41 C4-Phenanthrenes/Anthracenes	234		26.626	27.592	(1.207)	96568	0.71775	3.589 (M)	
48 C1-Fluoranthenes/Pyrenes	216		27.471	27.471	(1.246)	1134424	7.50800	37.54 (M)	
* 250 Anthracene-d10	188		22.052	22.041	(1.000)	247206	2.00000		
49 C2-Fluoranthenes/Pyrenes	230		28.644	28.863	(1.299)	492344	3.25850	16.29 (M)	
50 C3-Fluoranthenes/Pyrenes	244		29.663	29.663	(1.345)	288837	1.91162	9.558 (M)	
249 C4-Fluoranthenes/Pyrenes	258		32.904	32.431	(1.492)	225435	1.49201	7.460 (M)	
52 C1-Naphthobenzothiophenes	248		32.240	32.240	(1.462)	143784	0.98937	4.947 (M)	
53 C2-Naphthobenzothiophenes	262		33.512	33.929	(1.520)	17068	0.11744	0.5872 (M)	
54 C3-Naphthobenzothiophenes	276		34.977	34.977	(1.586)	442437	3.04439	15.22 (M)	
248 C4-Naphthobenzothiophenes	290		34.402	34.402	(1.560)	10870	0.07480	0.3740 (M)	
58 C1-Benzo(a)anthracenes/Chrysen	242		30.821	30.821	(0.937)	913965	5.73571	28.68 (M)	

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264	32.904	32.904	(1.000)	371371	2.00000	
59 C2-Benzo(a)anthracenes/Chrysen	256	31.282	31.294	(0.951)	473721	2.97290	14.86 (M)
60 C3-Benzo(a)anthracenes/Chrysen	270	32.262	32.262	(0.980)	204864	1.28565	6.428 (M)
61 C4-Benzo(a)anthracenes/Chrysen	284	33.265	33.265	(1.011)	56325	0.35348	1.767 (M)
71 C1-Dibenzo(a)anthracenes	292	36.475	36.475	(1.109)	392619	2.29166	11.46 (M)
72 C2-Dibenzo(a)anthracenes	306	38.108	36.722	(1.158)	138602	0.80900	4.045 (M)
73 C3-Dibenzo(a)anthracenes	320	37.680	39.797	(1.145)	41091	0.23984	1.199 (M)

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1420102005S.D
Lab Smp Id: 20J0121-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201020.b\SIM.b\ALKYLRANGE.m
Misc Info:

Calibration Date: 20-OCT-2020
Calibration Time: 09:59
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

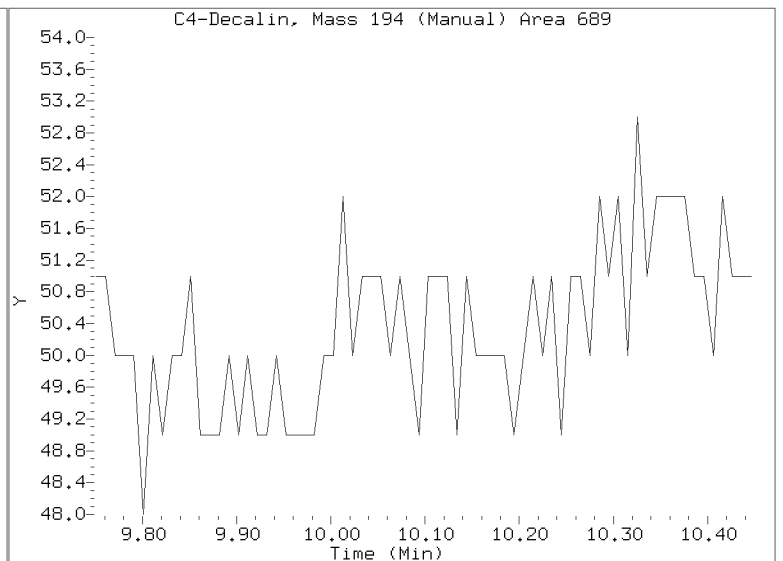
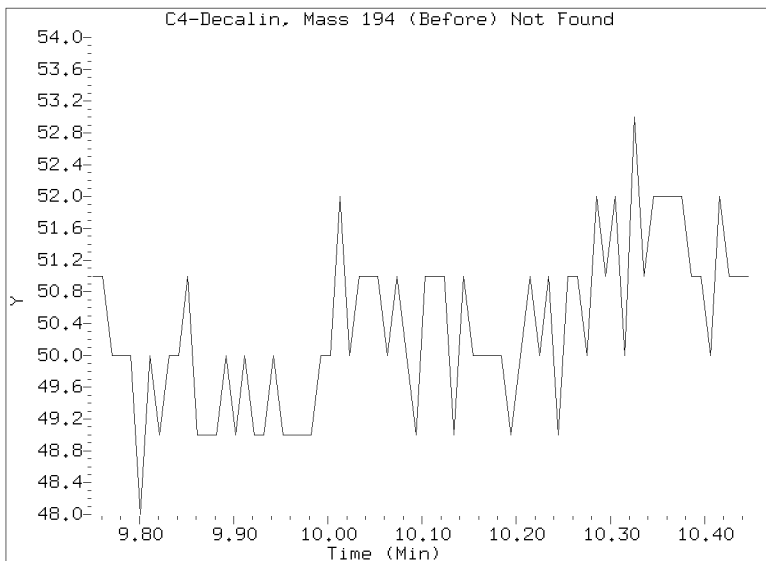
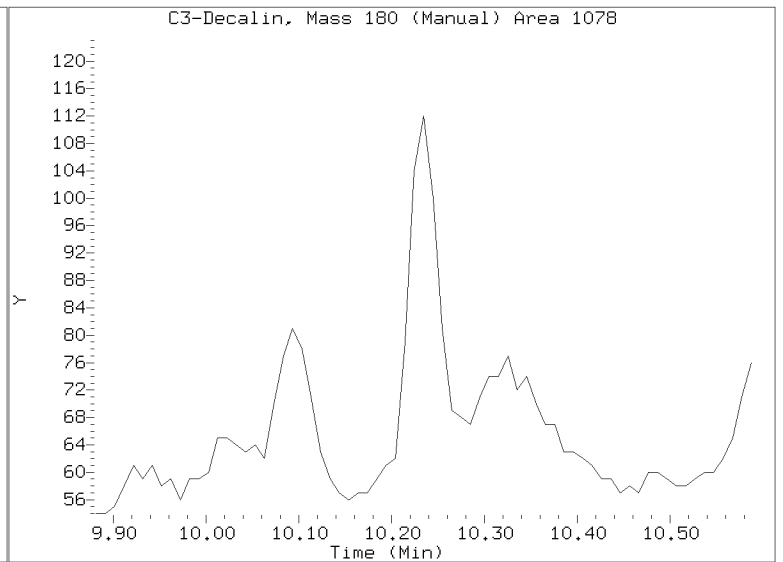
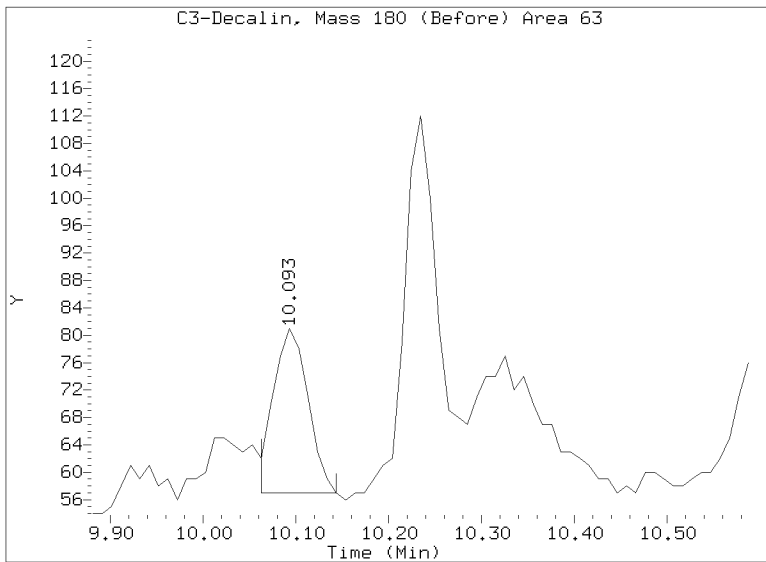
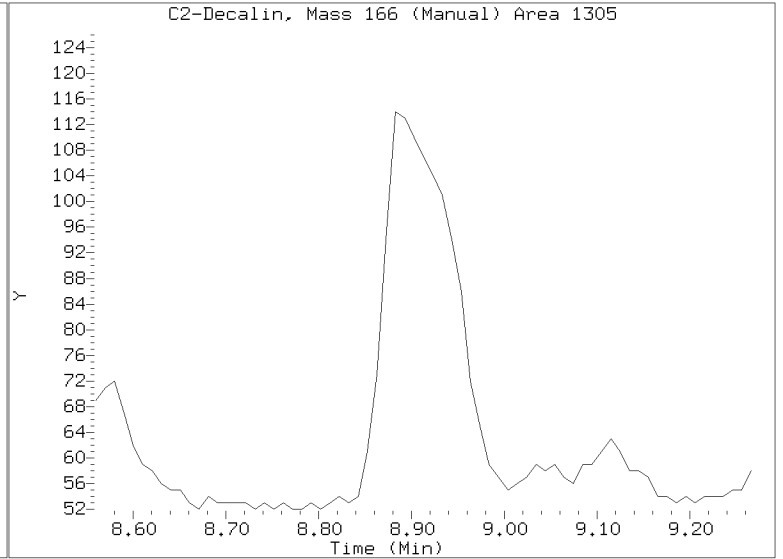
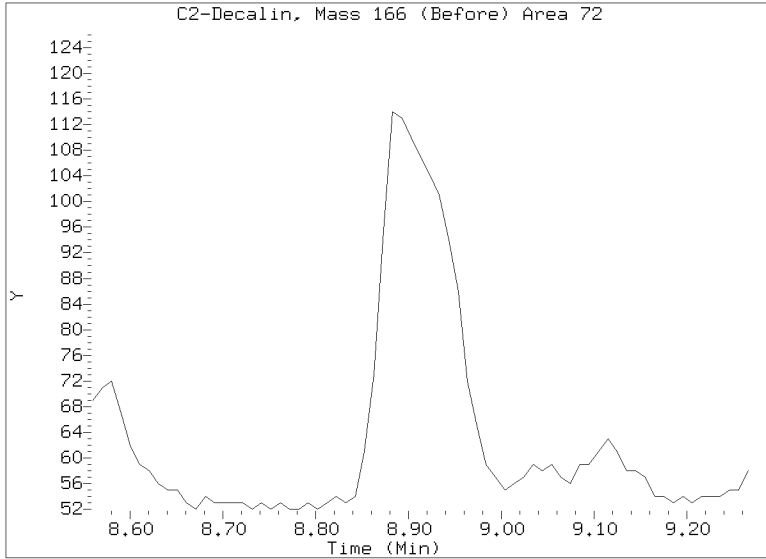
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		LOWER	UPPER		
25 Fluorene-d10	205426	102713	410852	232212	13.04
250 Anthracene-d10	218653	109327	437306	247206	13.06
251 Benzo(e)pyrene-d1	312750	156375	625500	371371	18.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.61	18.11	19.11	18.61	0.00
250 Anthracene-d10	22.04	21.54	22.54	22.05	0.05
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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.

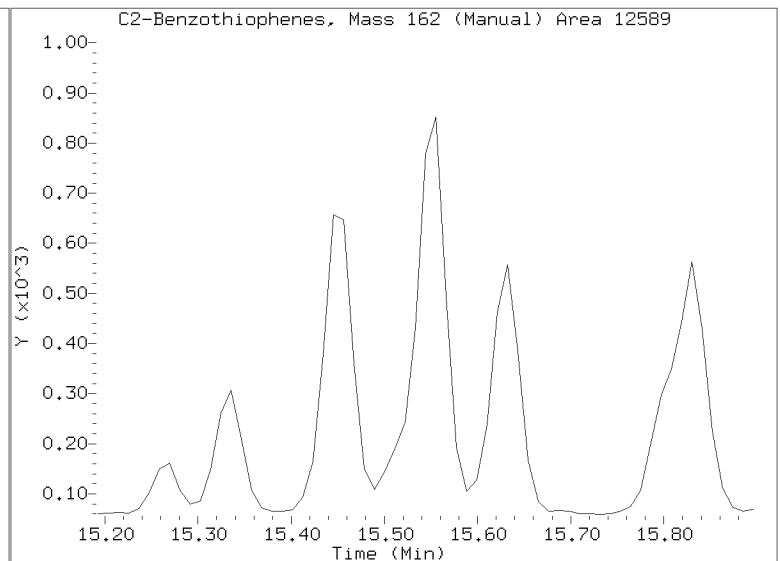
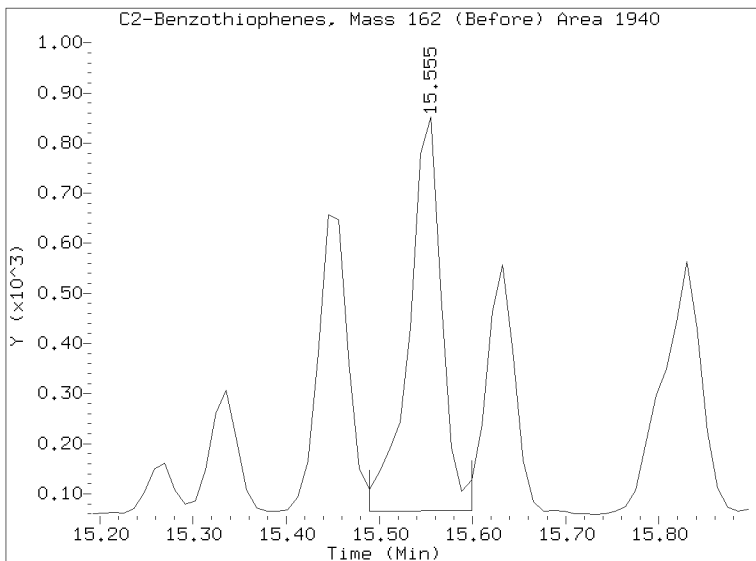
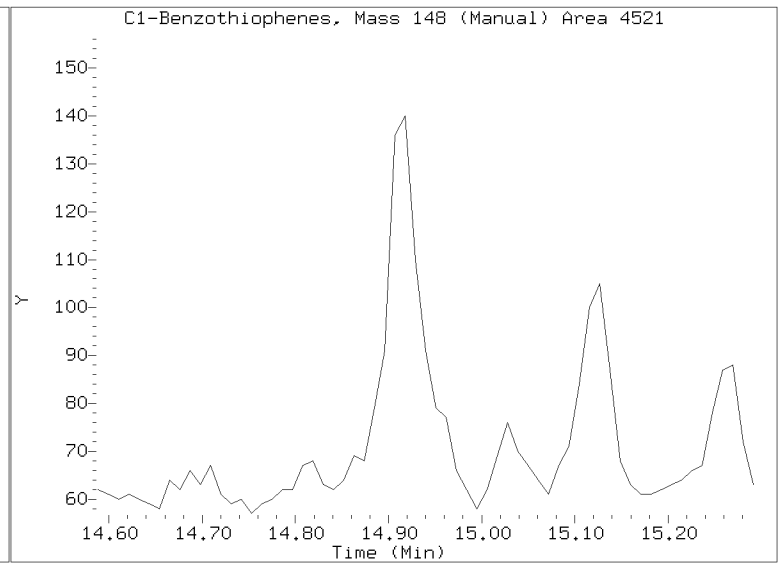
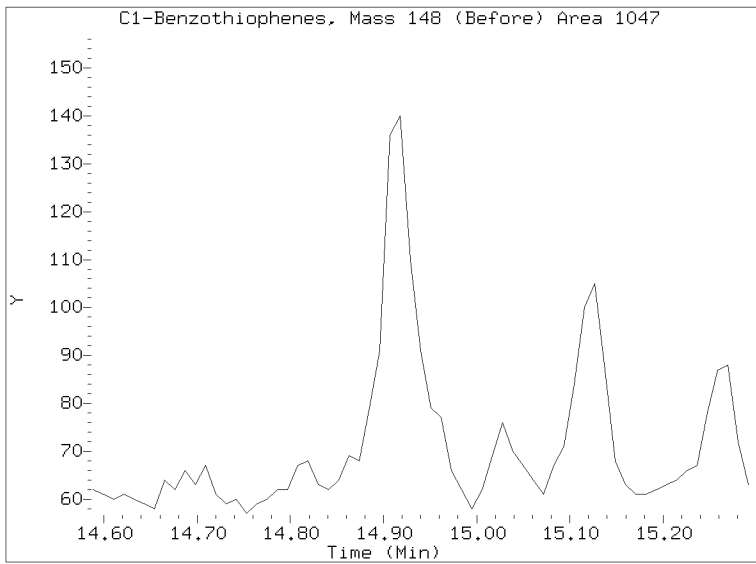
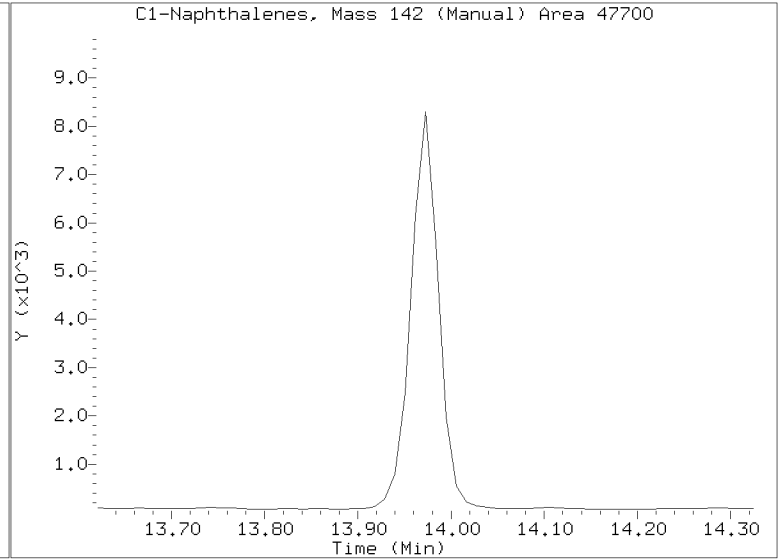
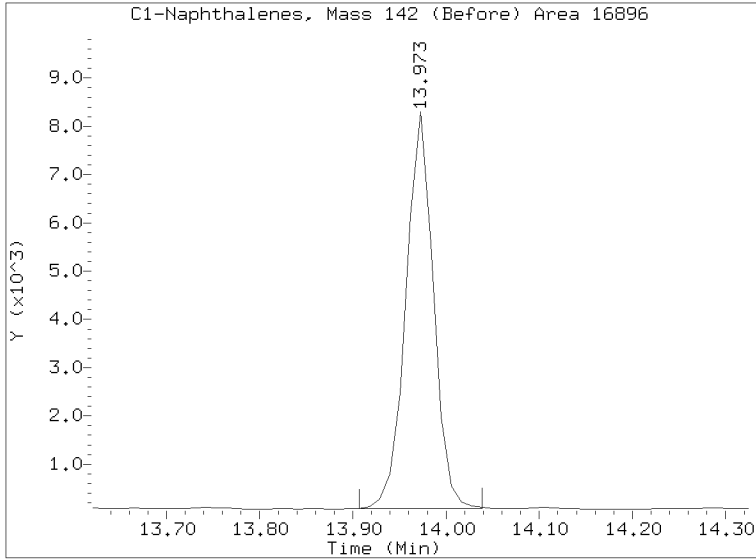
Quant Ion Manual Peak Adjustment Report

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Injection Date: 20-OCT-2020 12:35
Lab ID:20J0121-01 Client ID:
Report Date: 10/23/2020 15:30



Quant Ion Manual Peak Adjustment Report

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Injection Date: 20-OCT-2020 12:35
Lab ID:20J0121-01 Client ID:
Report Date: 10/23/2020 15:30



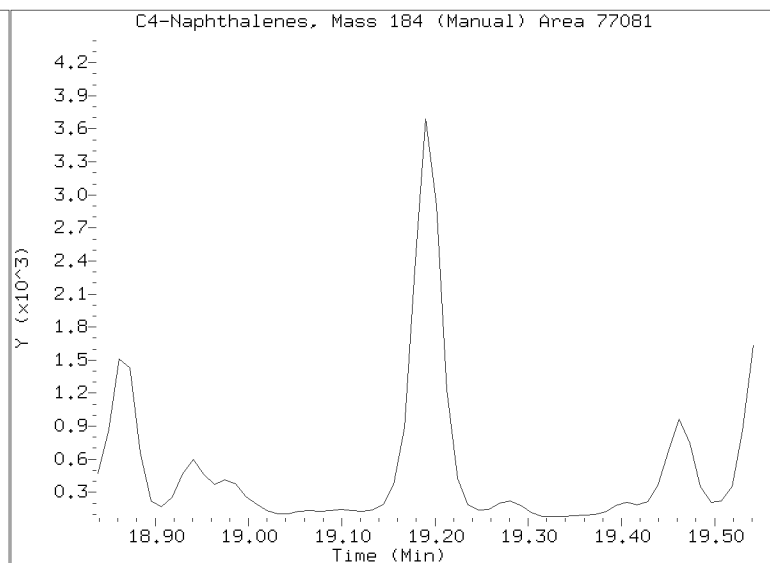
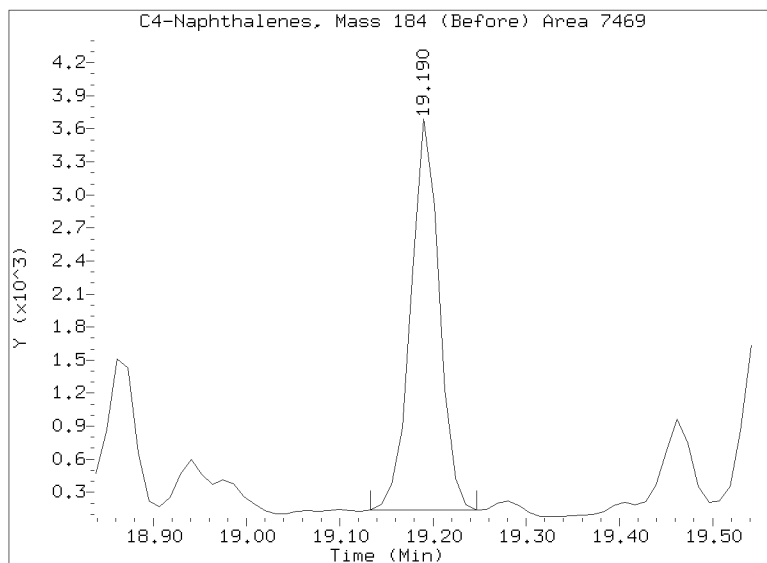
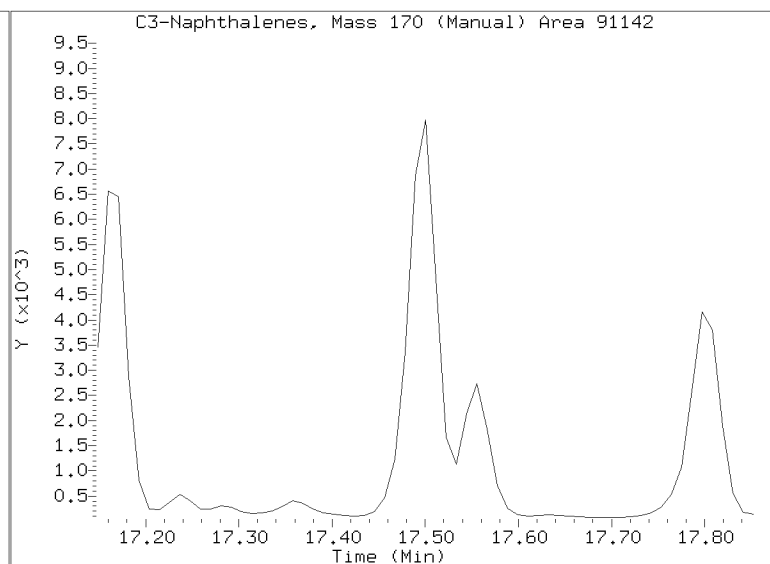
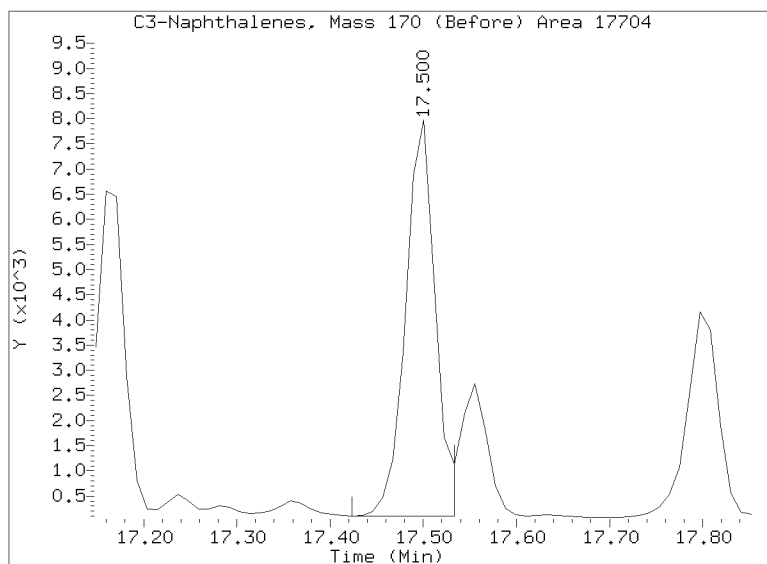
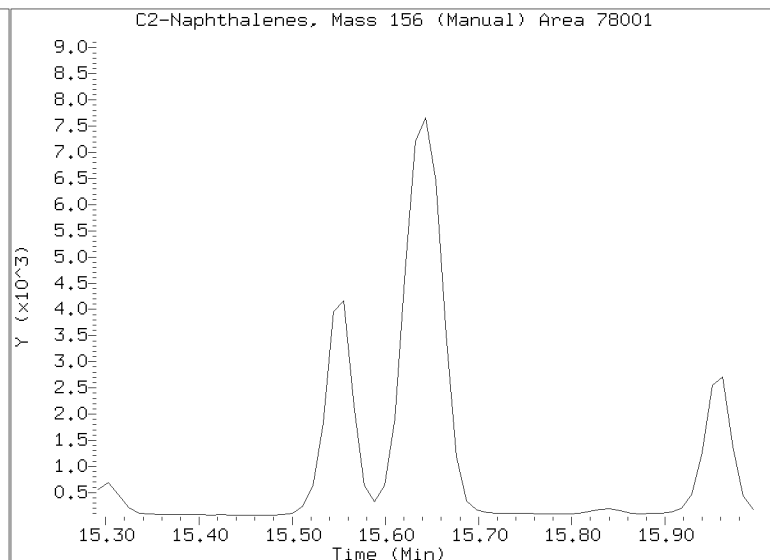
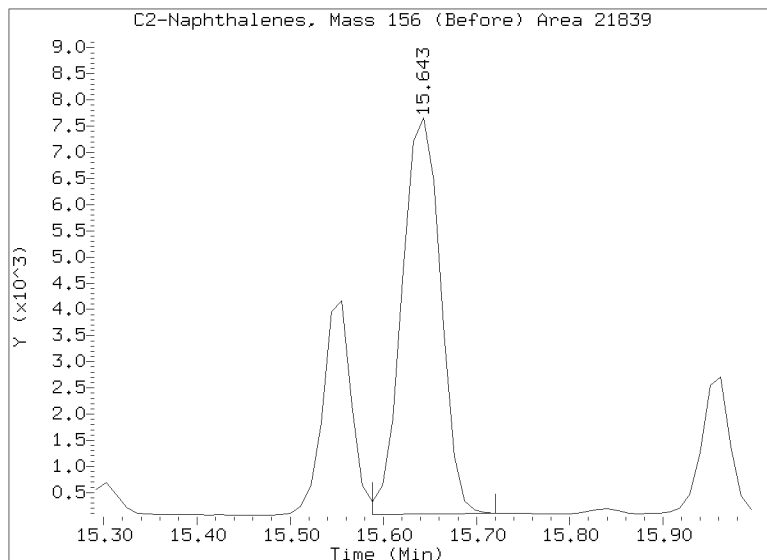
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Injection Date: 20-OCT-2020 12:35

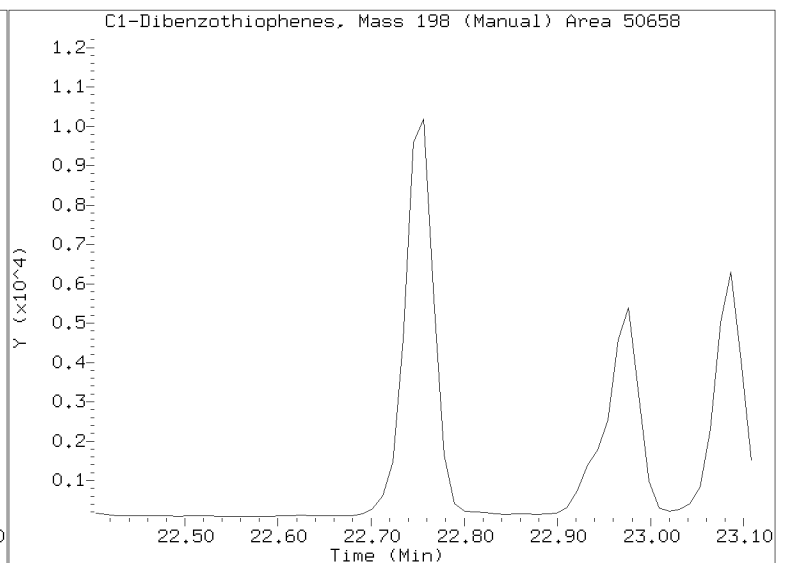
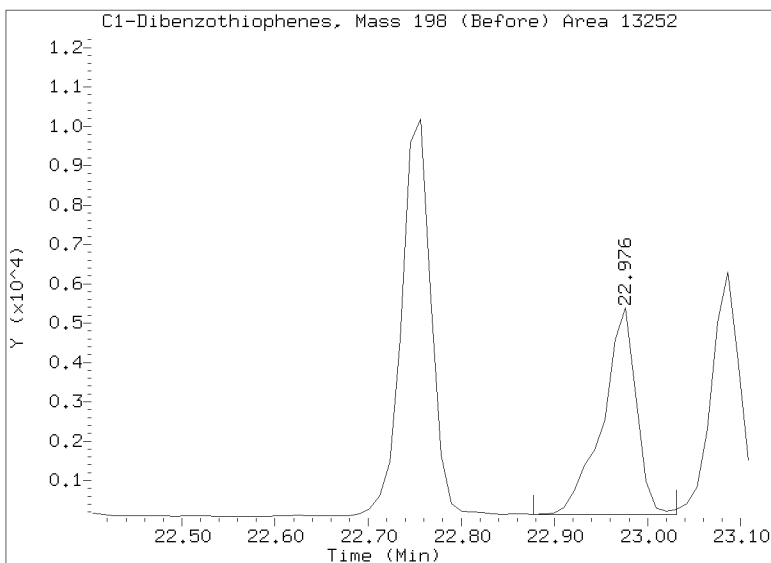
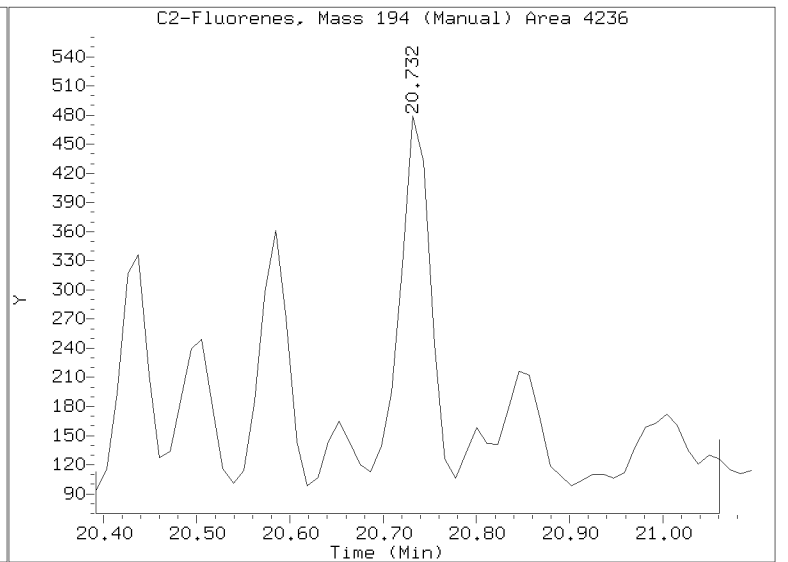
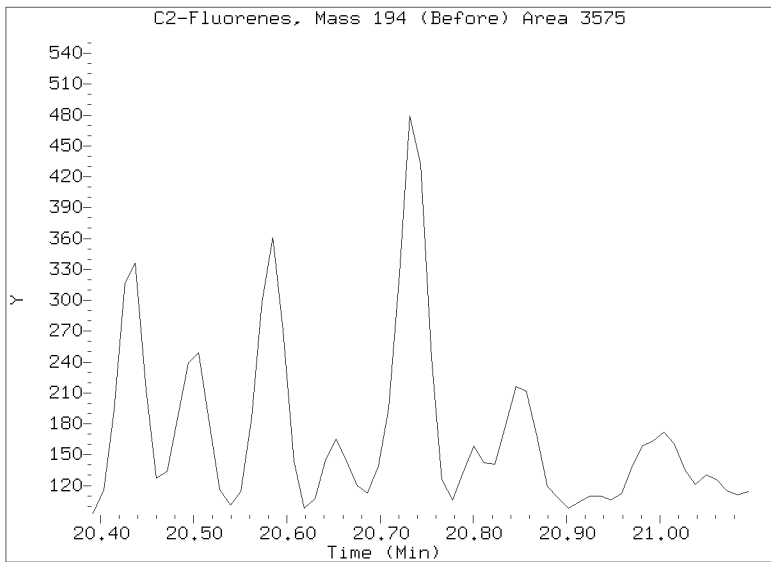
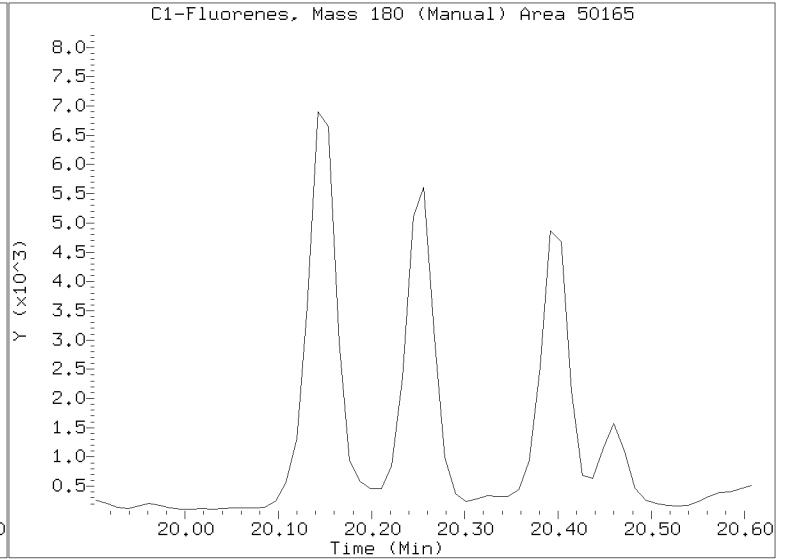
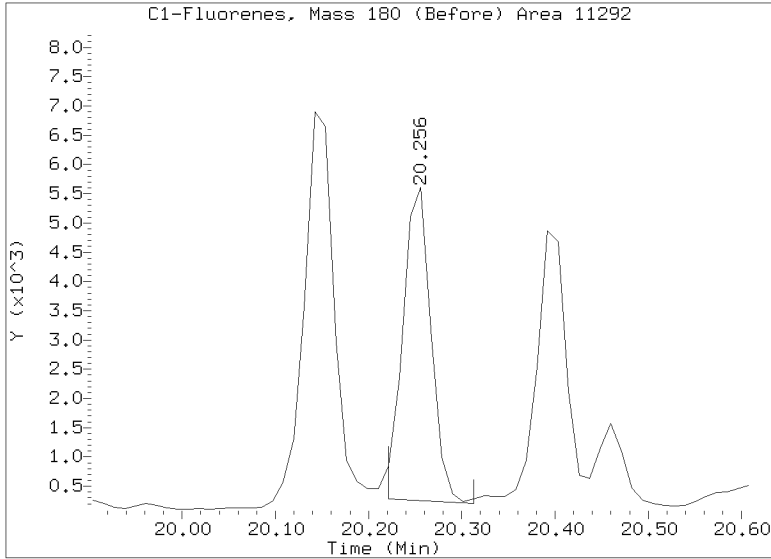
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Report Date: 10/23/2020 15:30



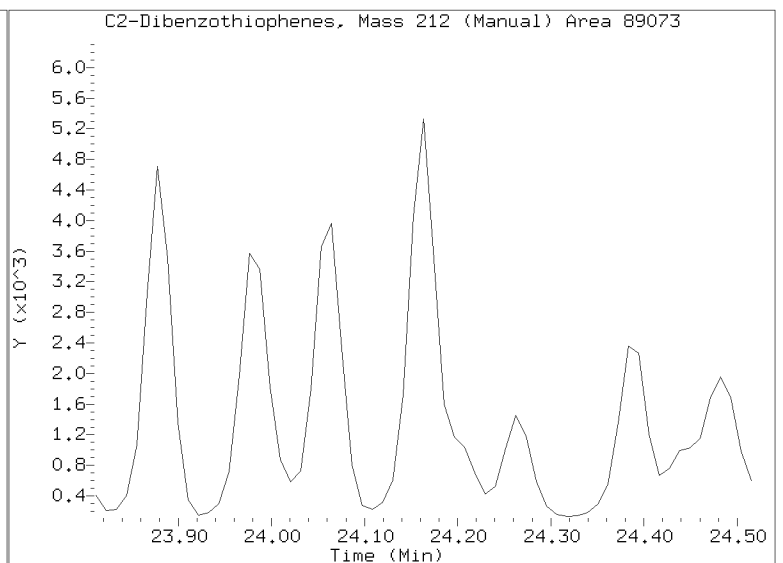
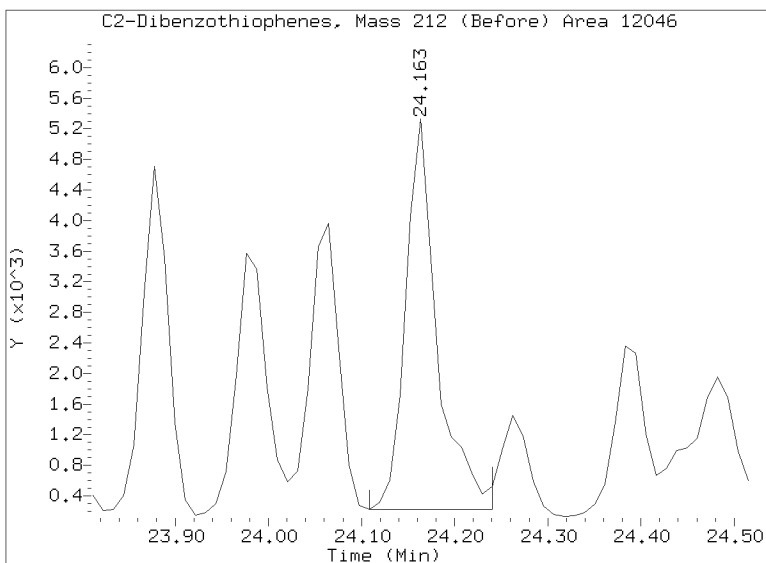
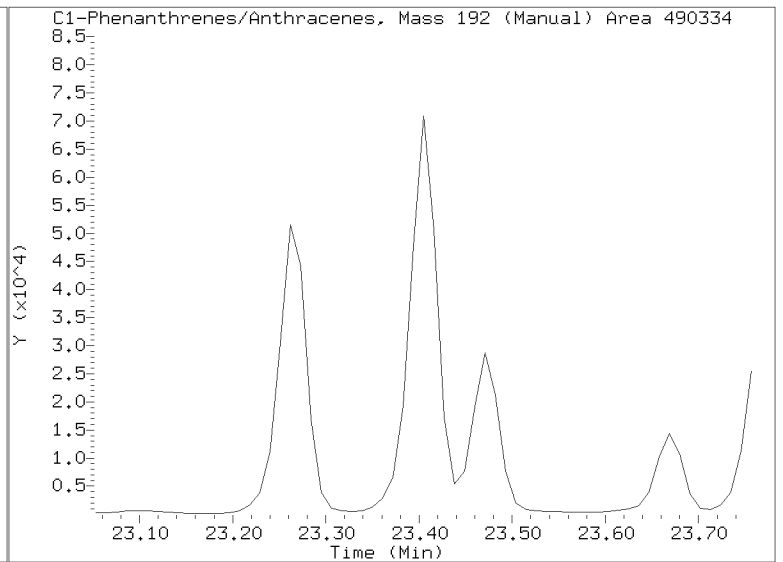
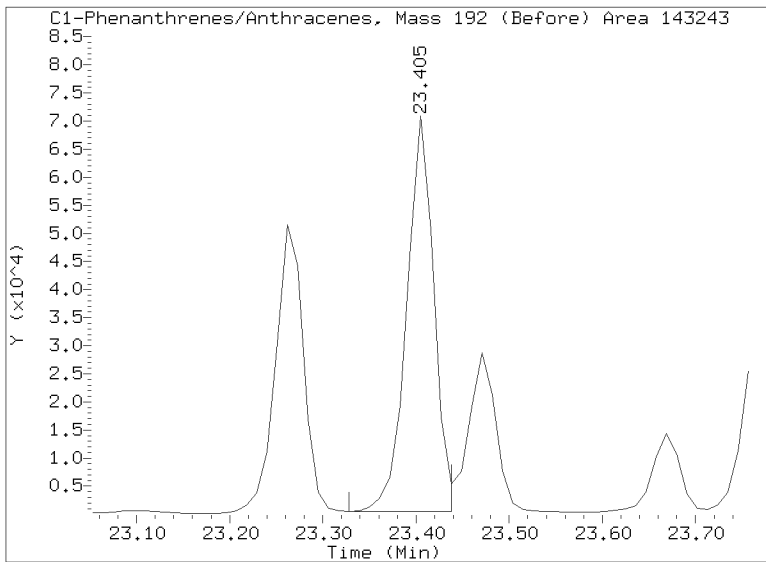
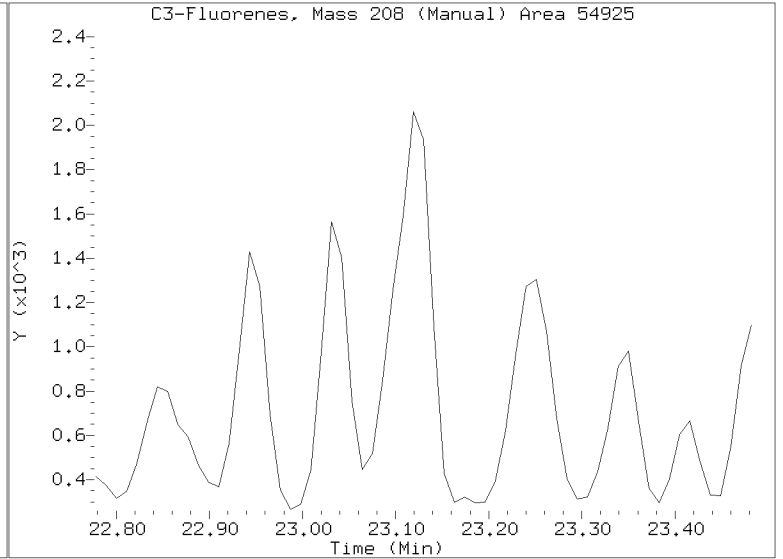
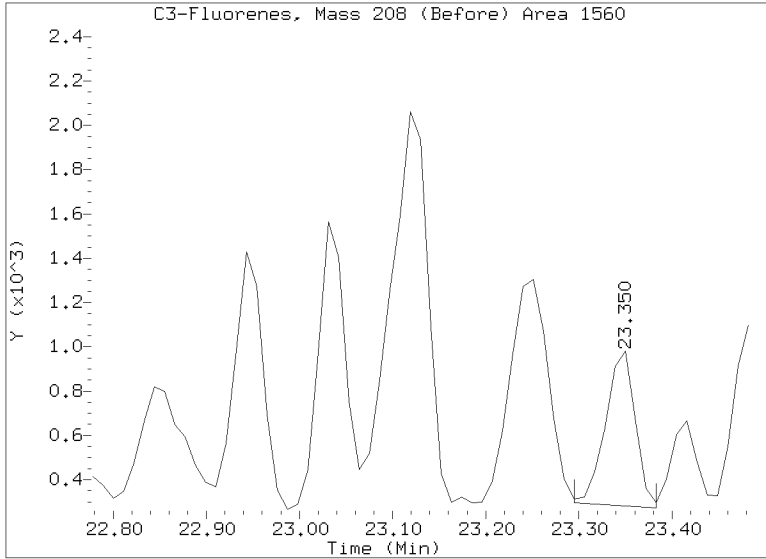
Quant Ion Manual Peak Adjustment Report

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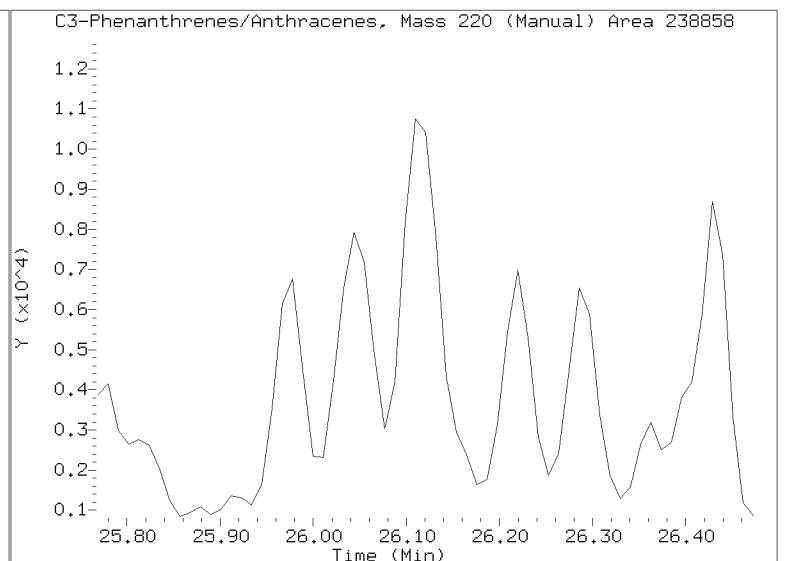
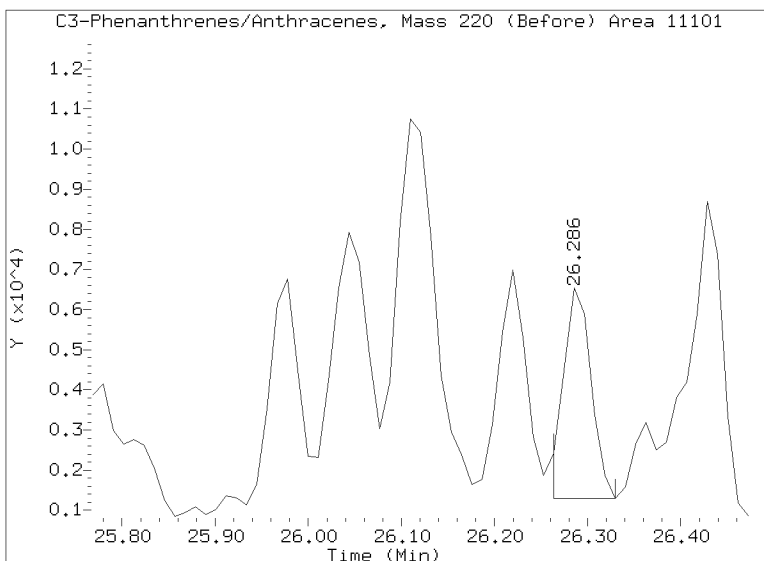
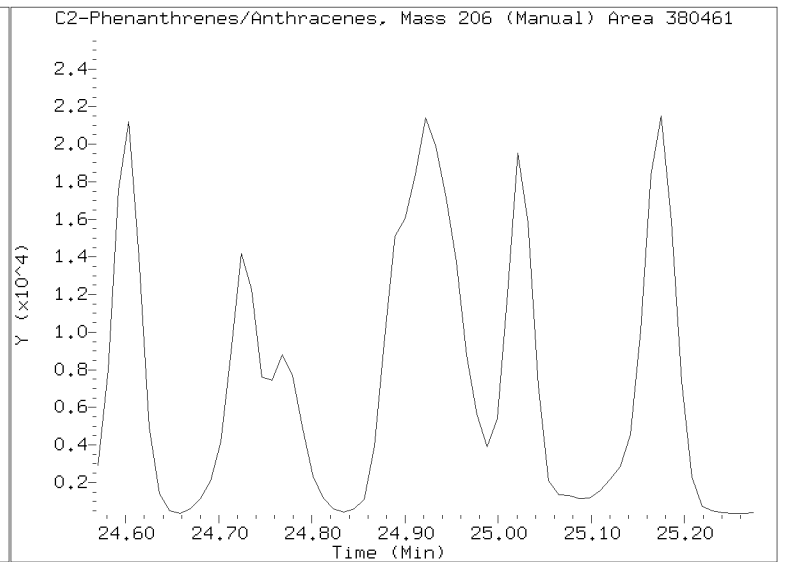
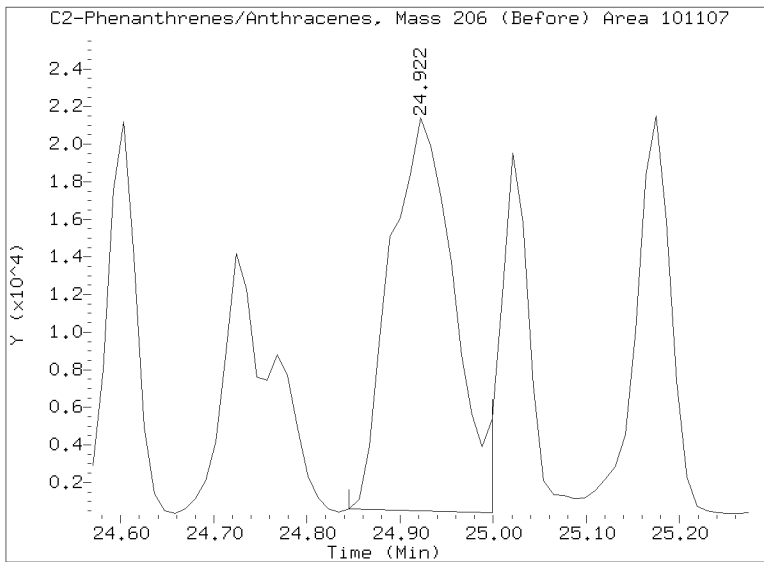
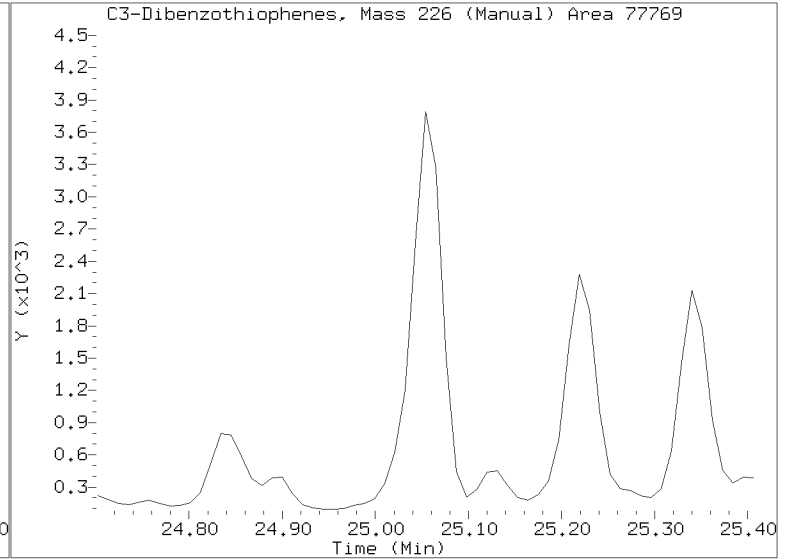
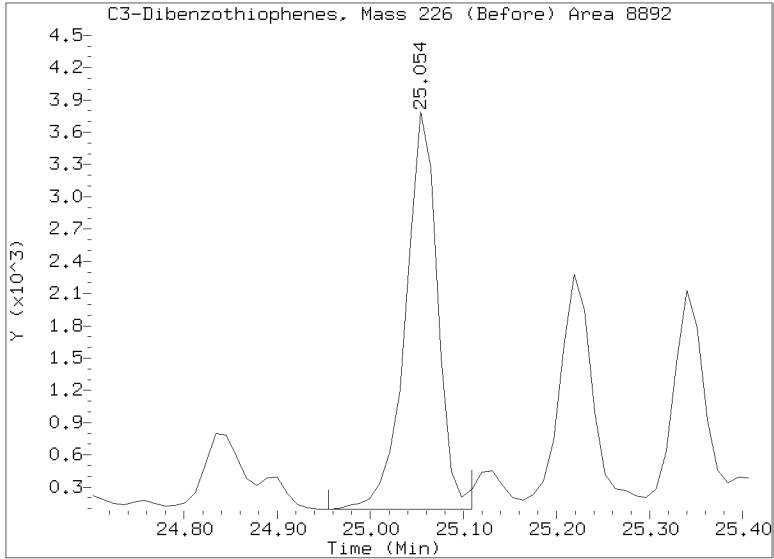
Quant Ion Manual Peak Adjustment Report

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Injection Date: 20-OCT-2020 12:35
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Report Date: 10/23/2020 15:30



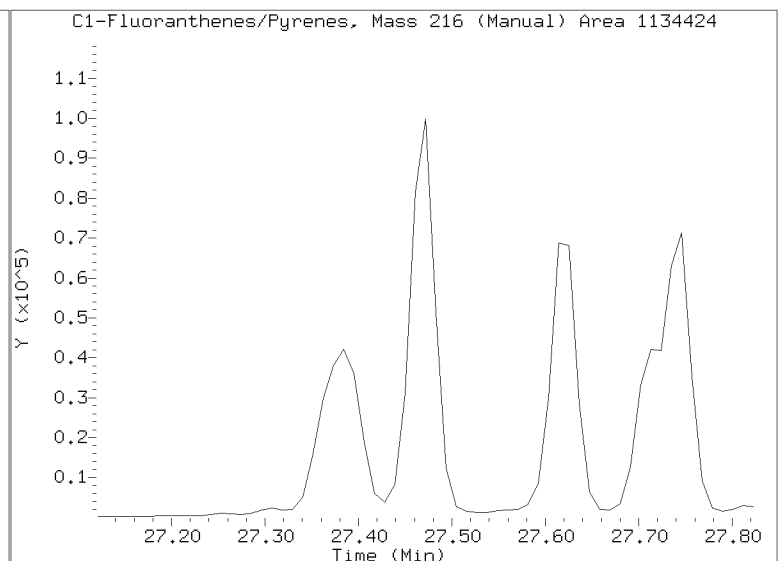
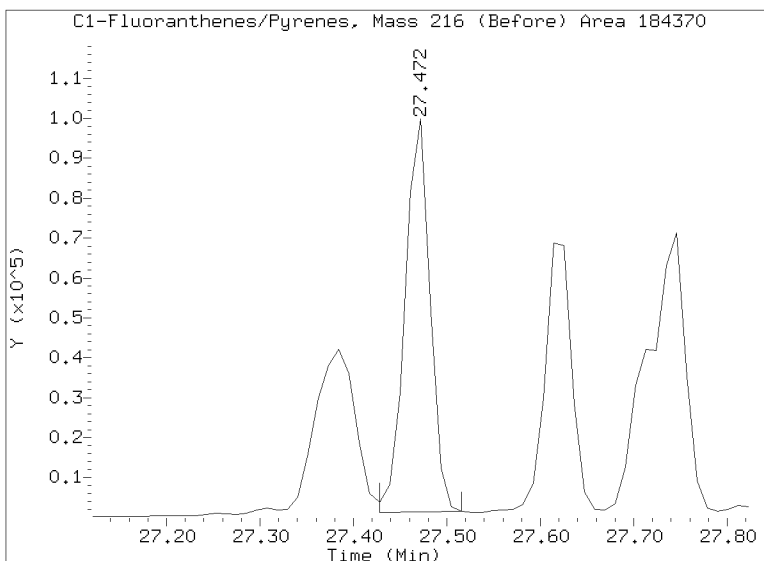
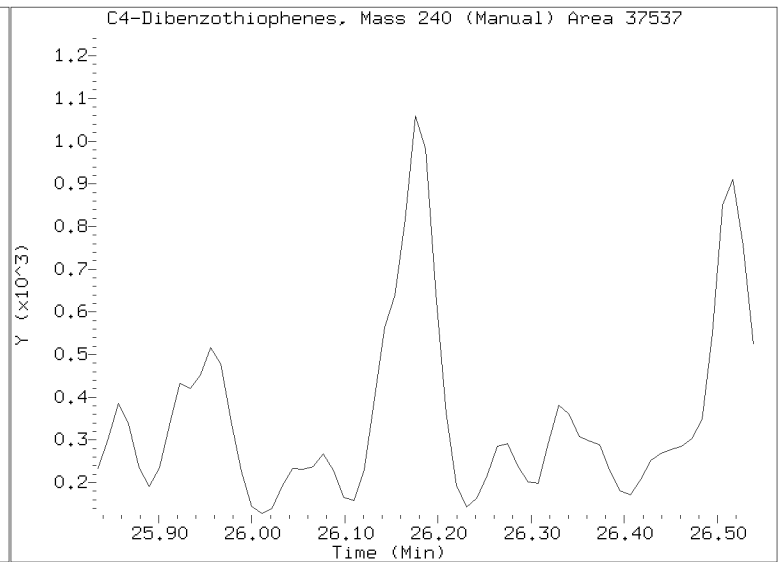
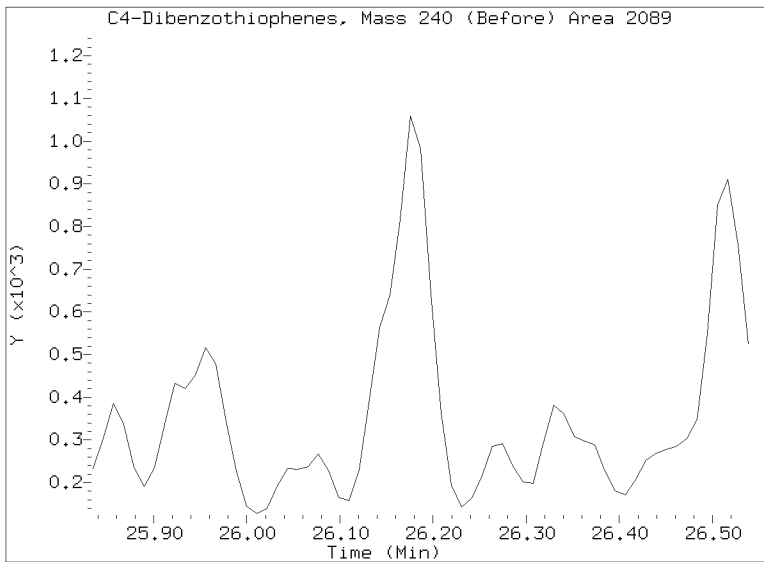
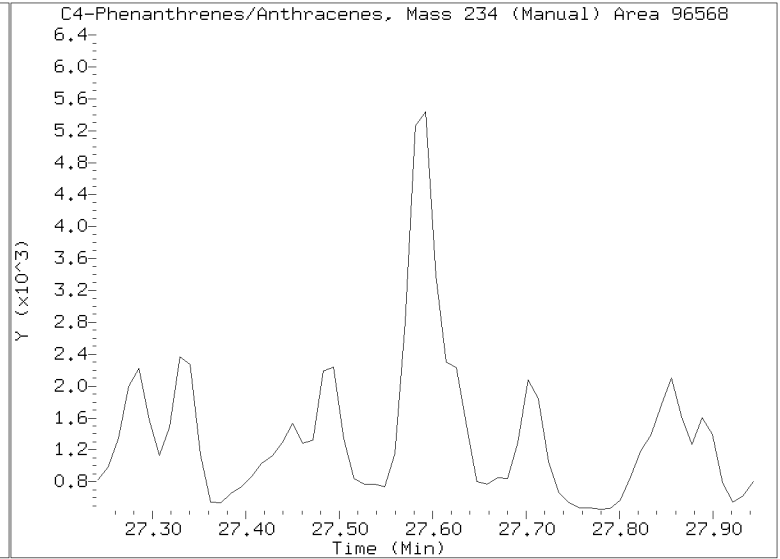
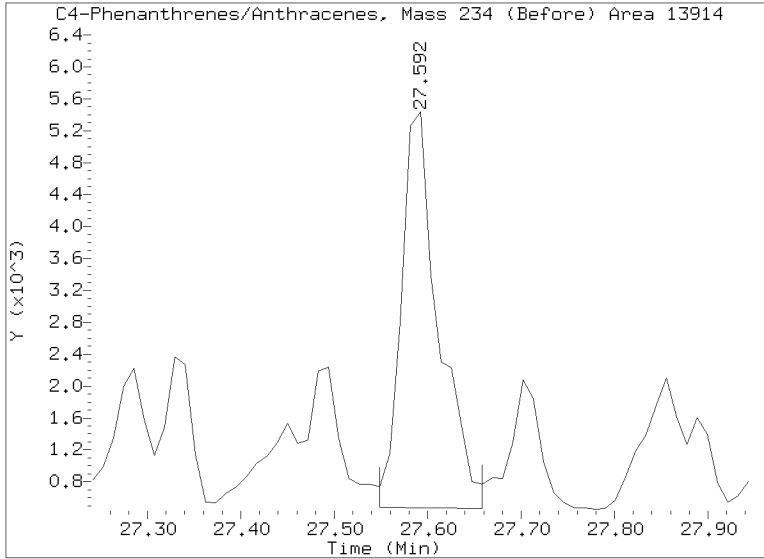
Quant Ion Manual Peak Adjustment Report

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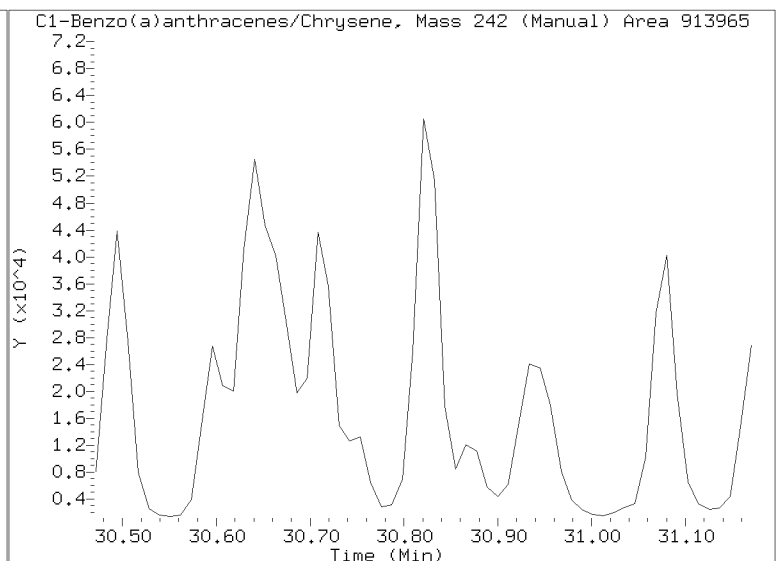
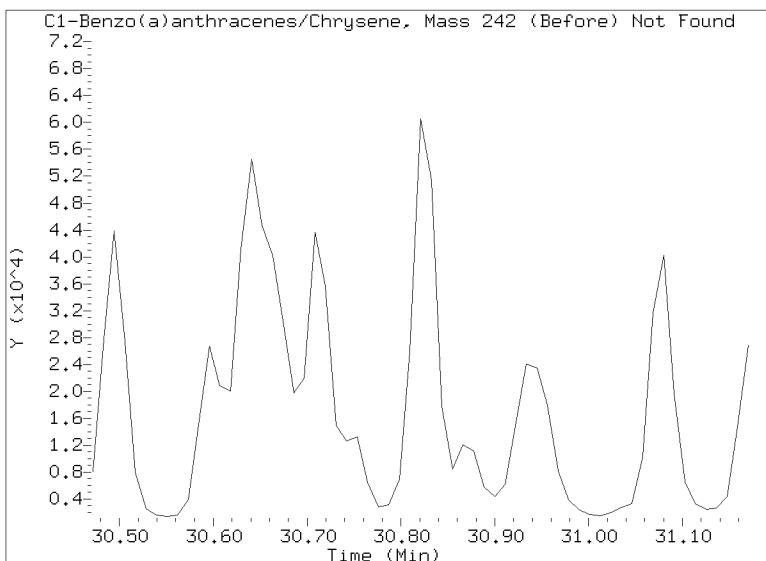
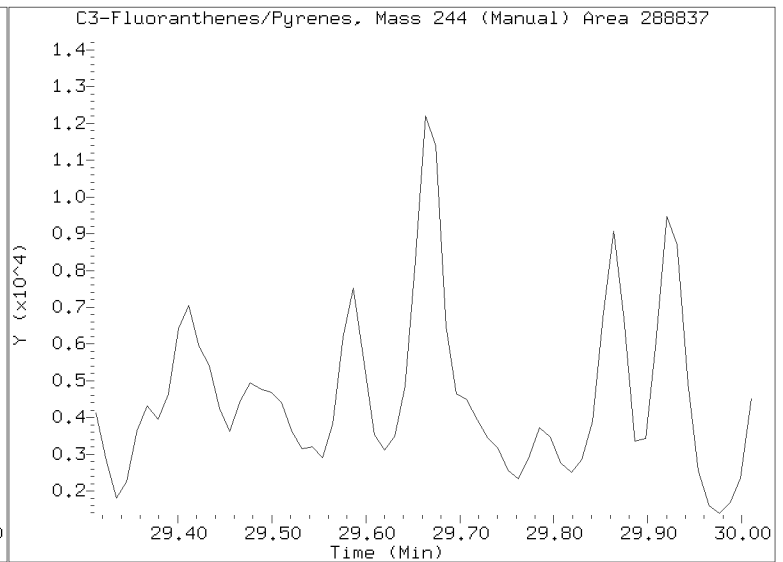
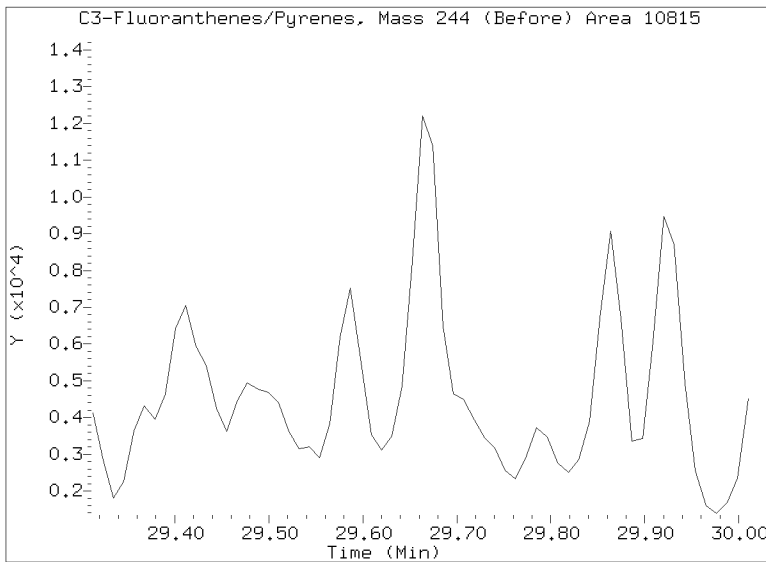
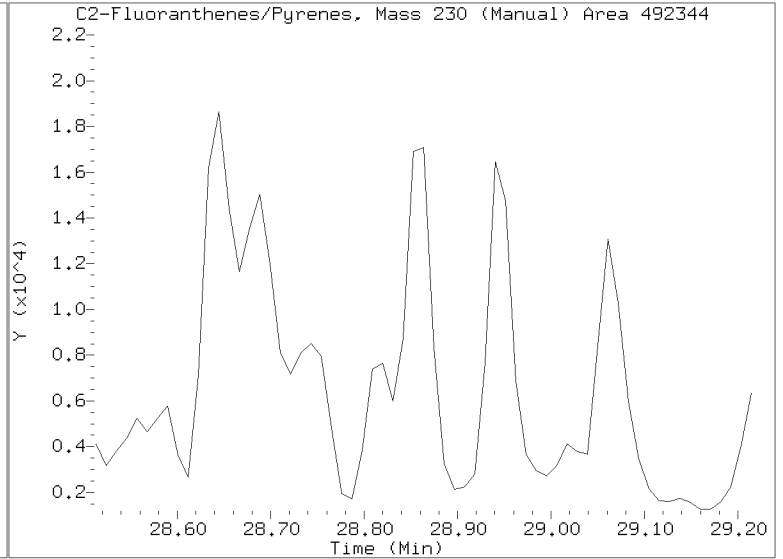
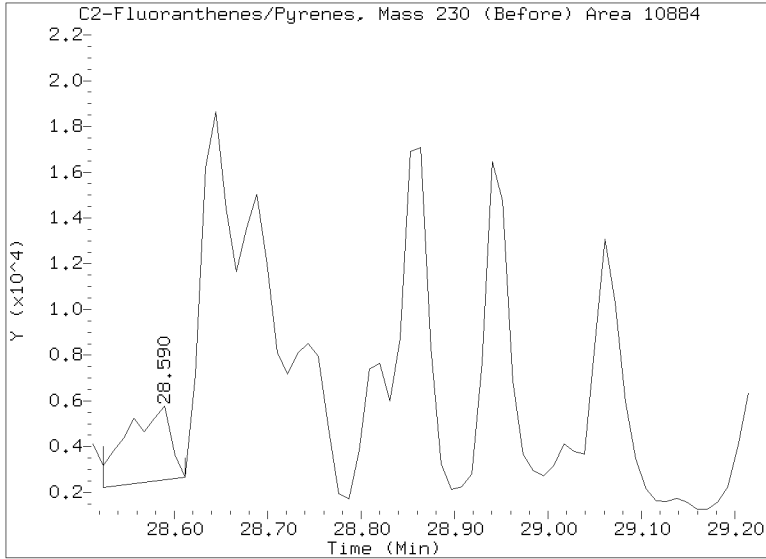
Quant Ion Manual Peak Adjustment Report

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Report Date: 10/23/2020 15:30



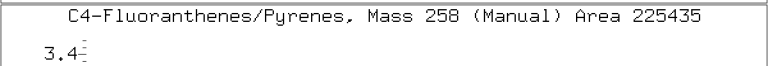
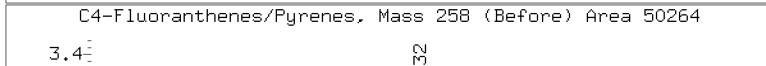
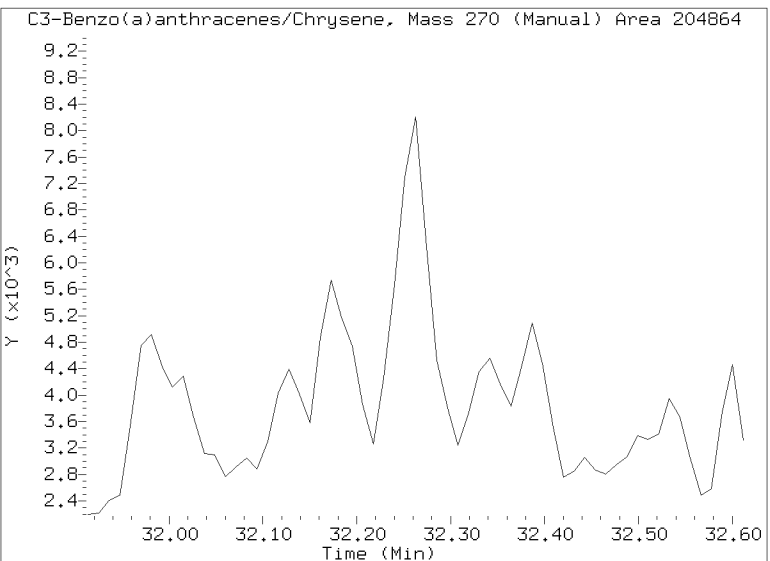
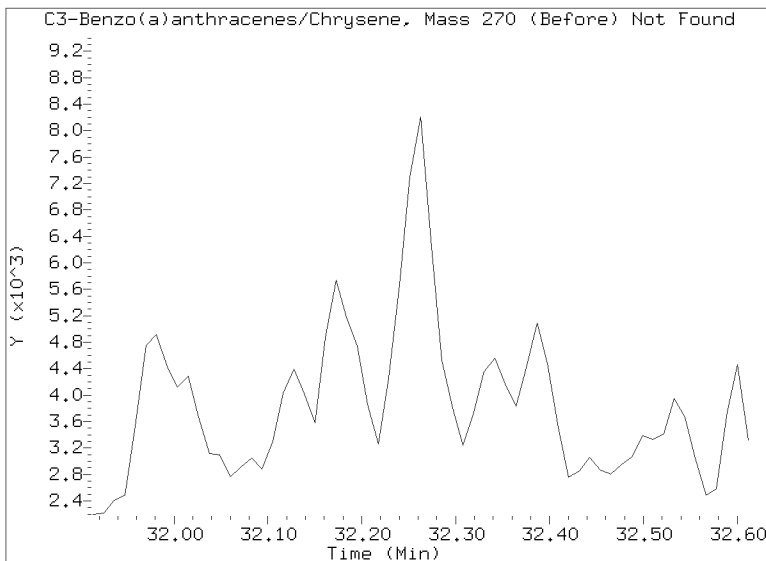
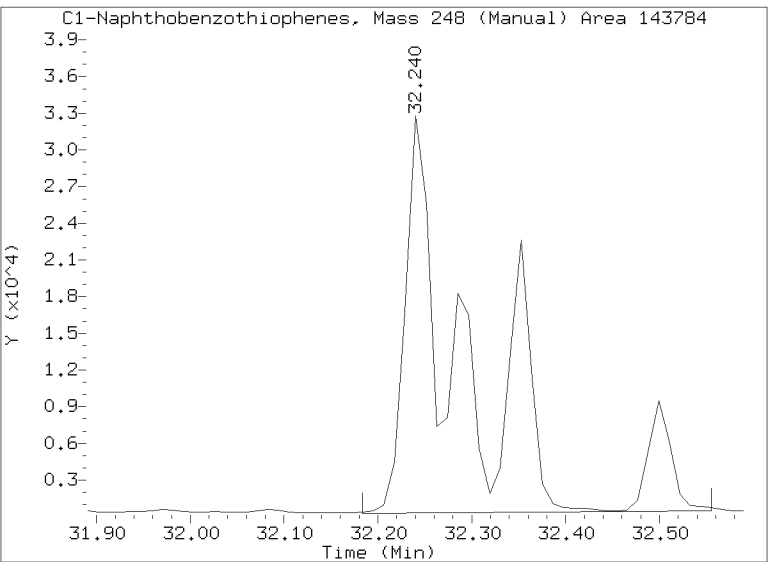
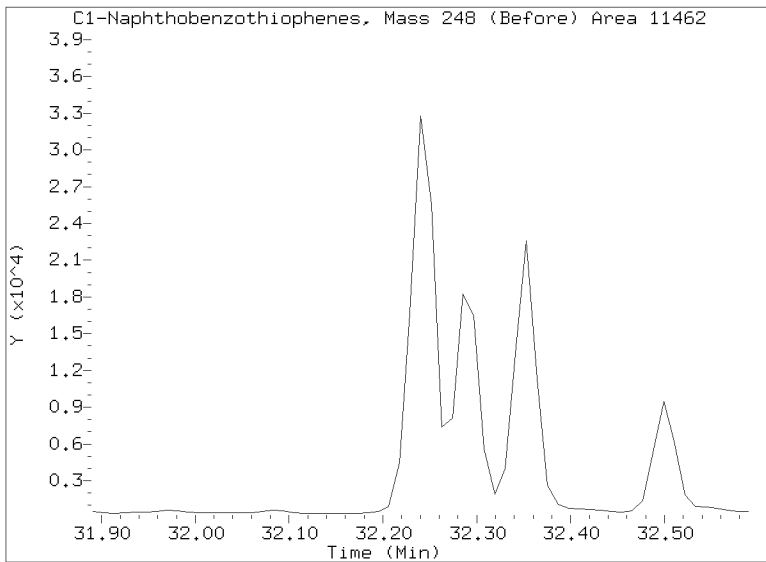
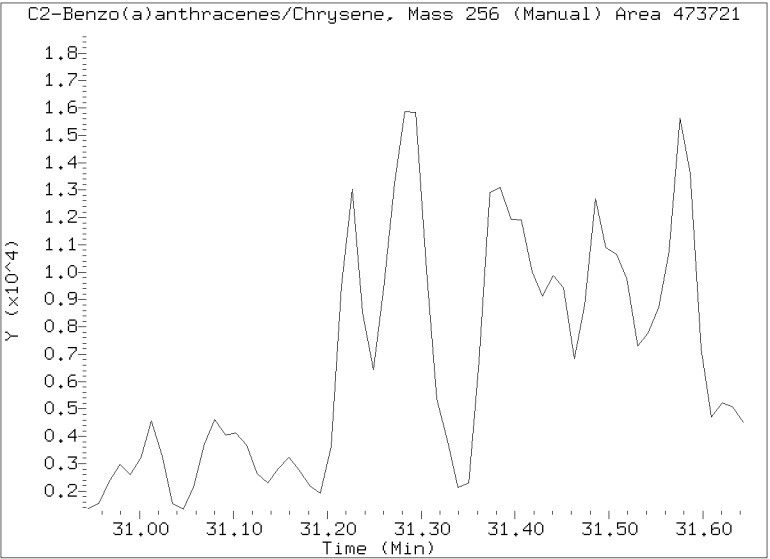
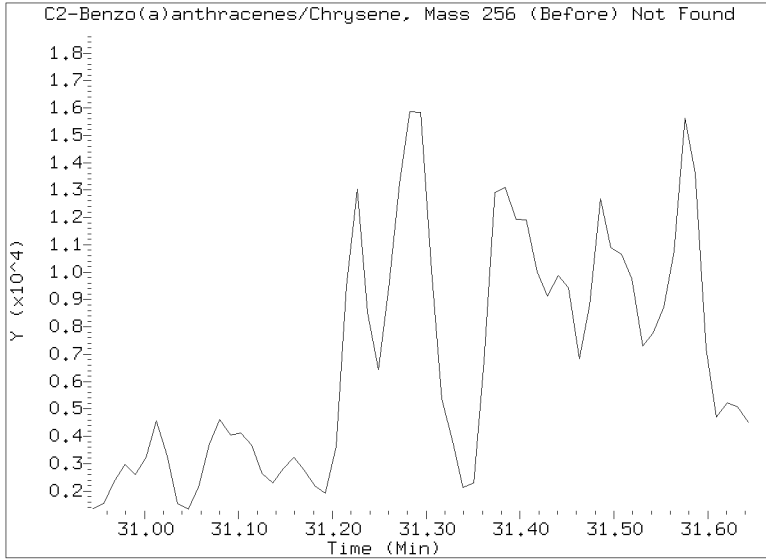
Quant Ion Manual Peak Adjustment Report

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Lab ID:20J0121-01 Client ID:
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Quant Ion Manual Peak Adjustment Report

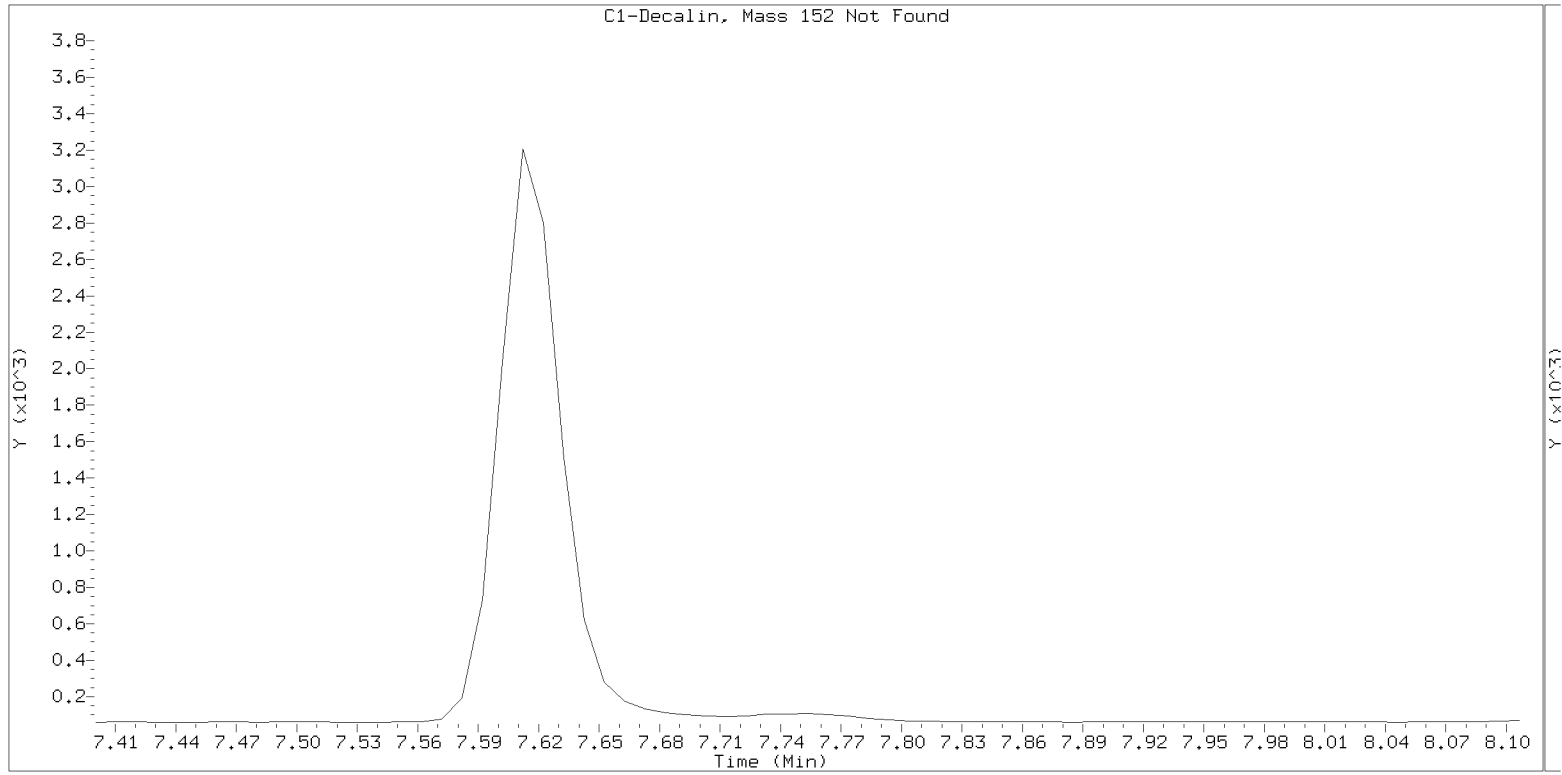
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Report Date: 10/23/2020 15:30



SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

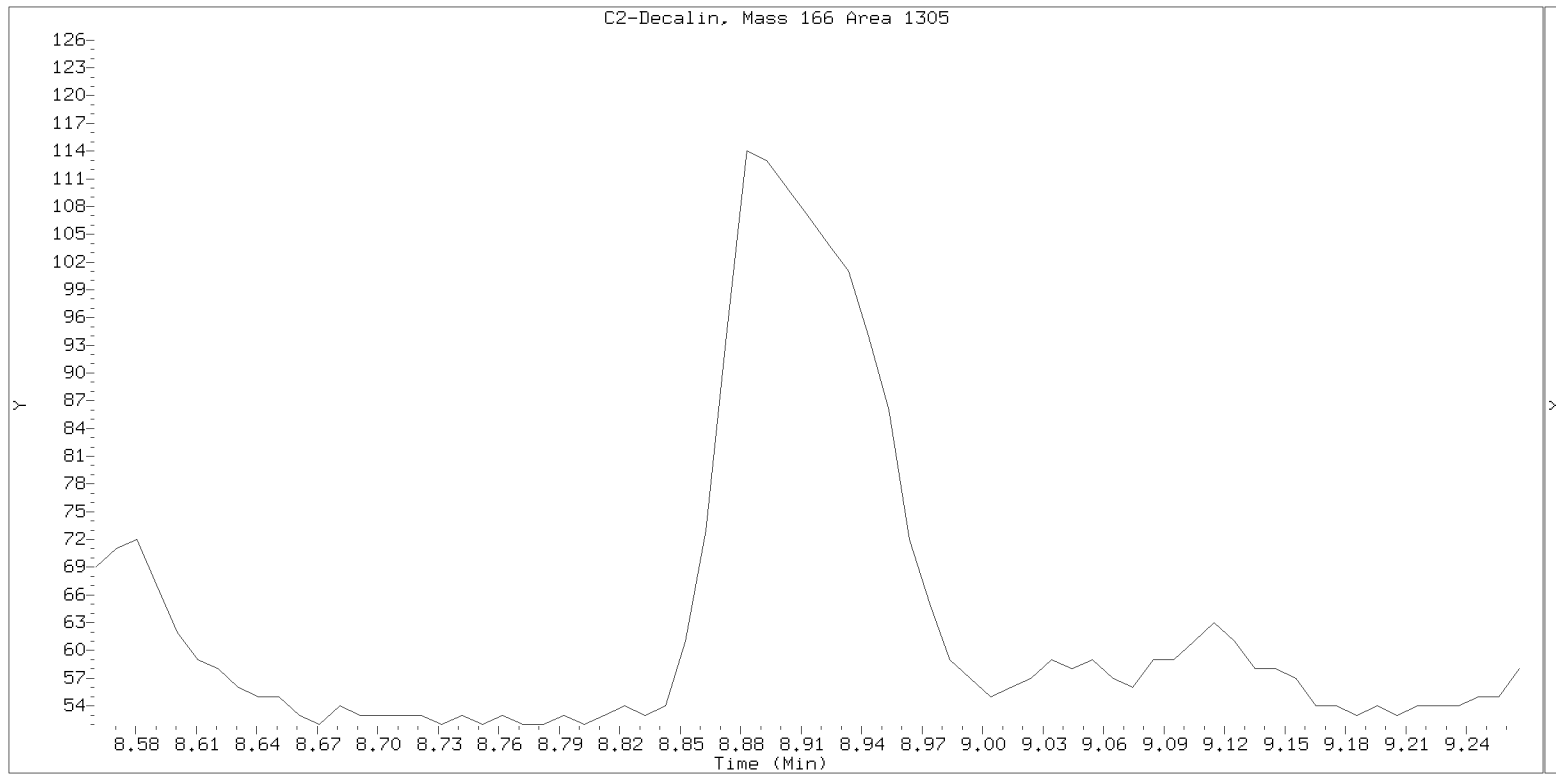
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

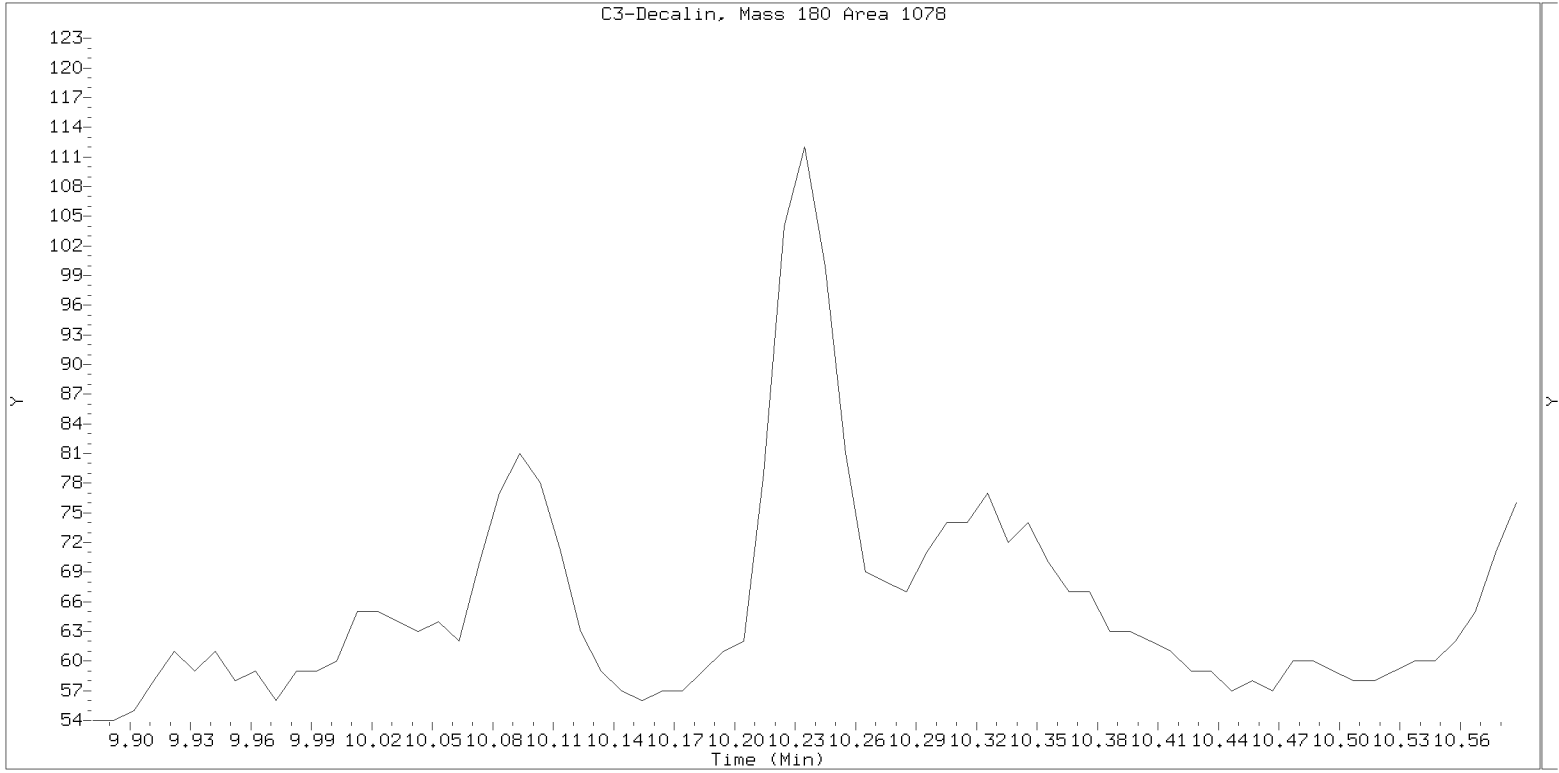
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

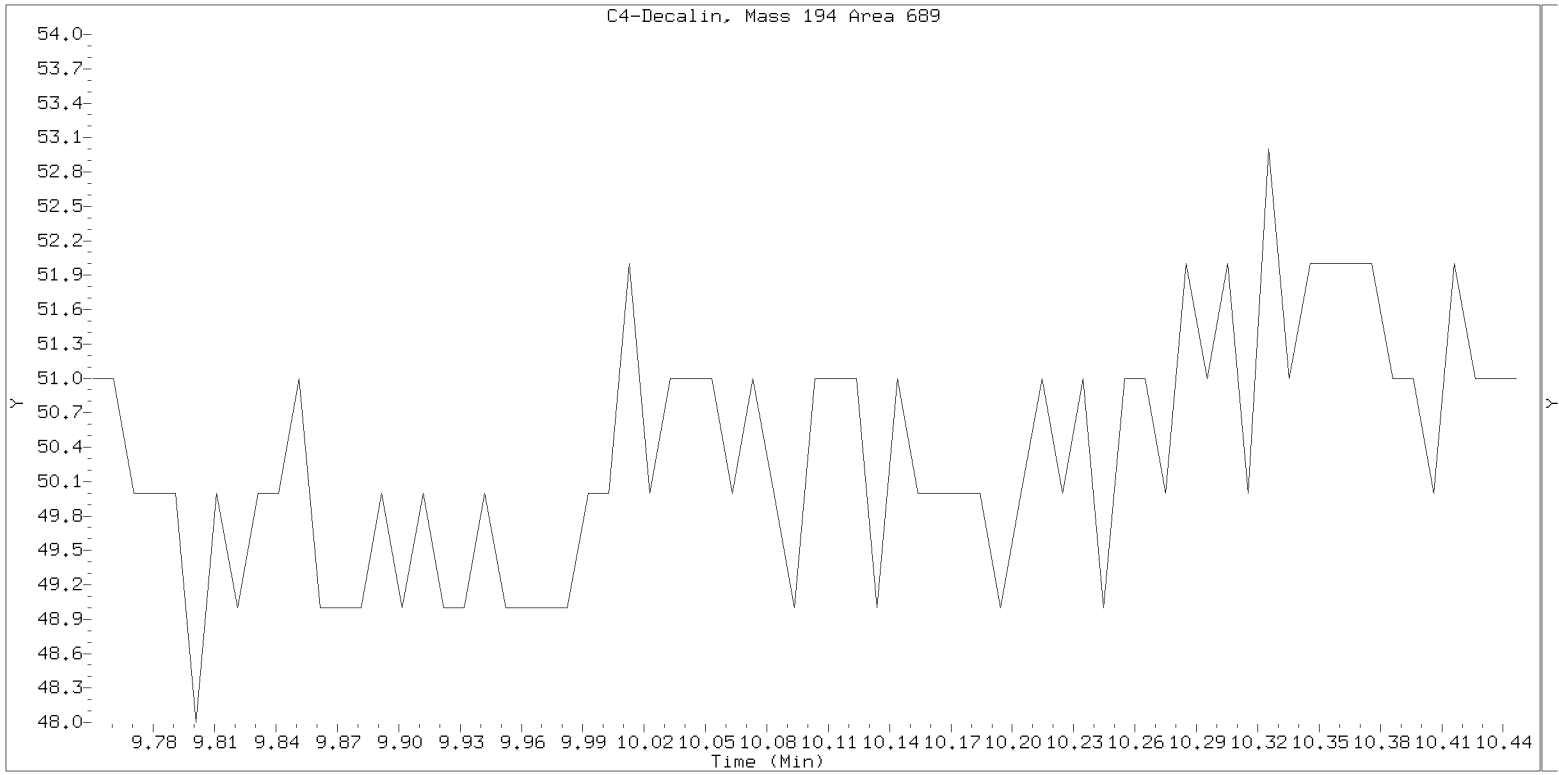
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

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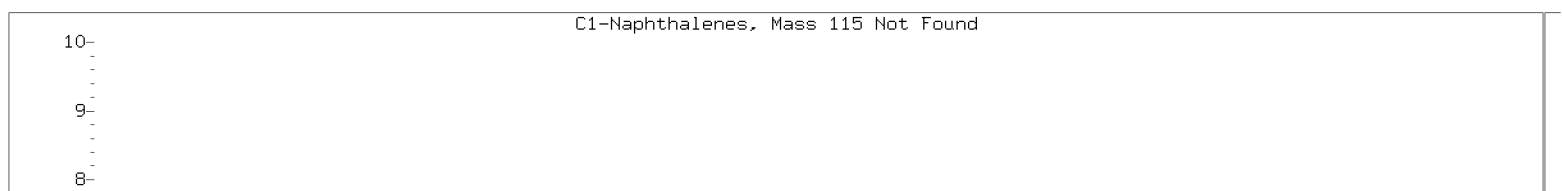
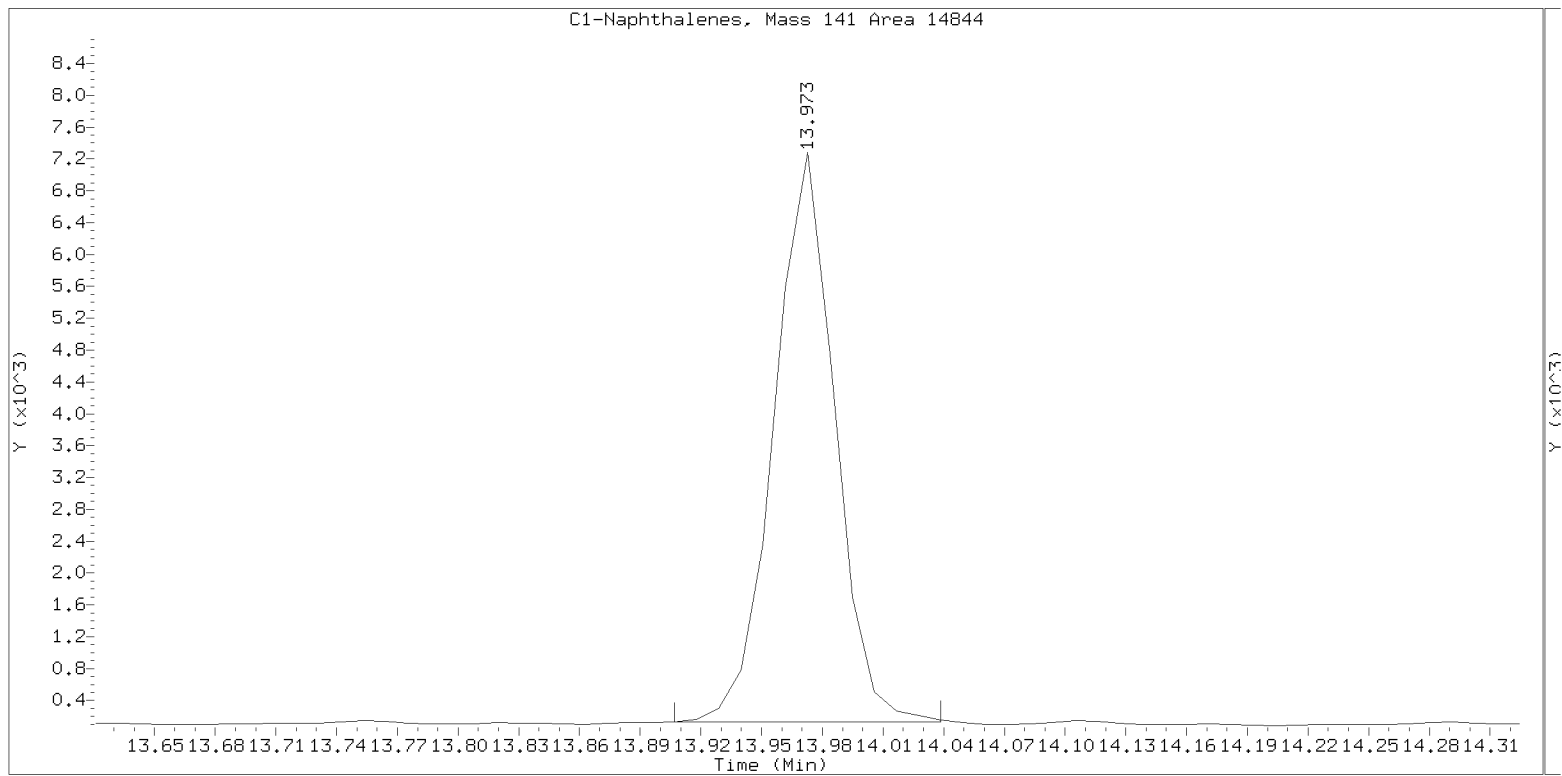
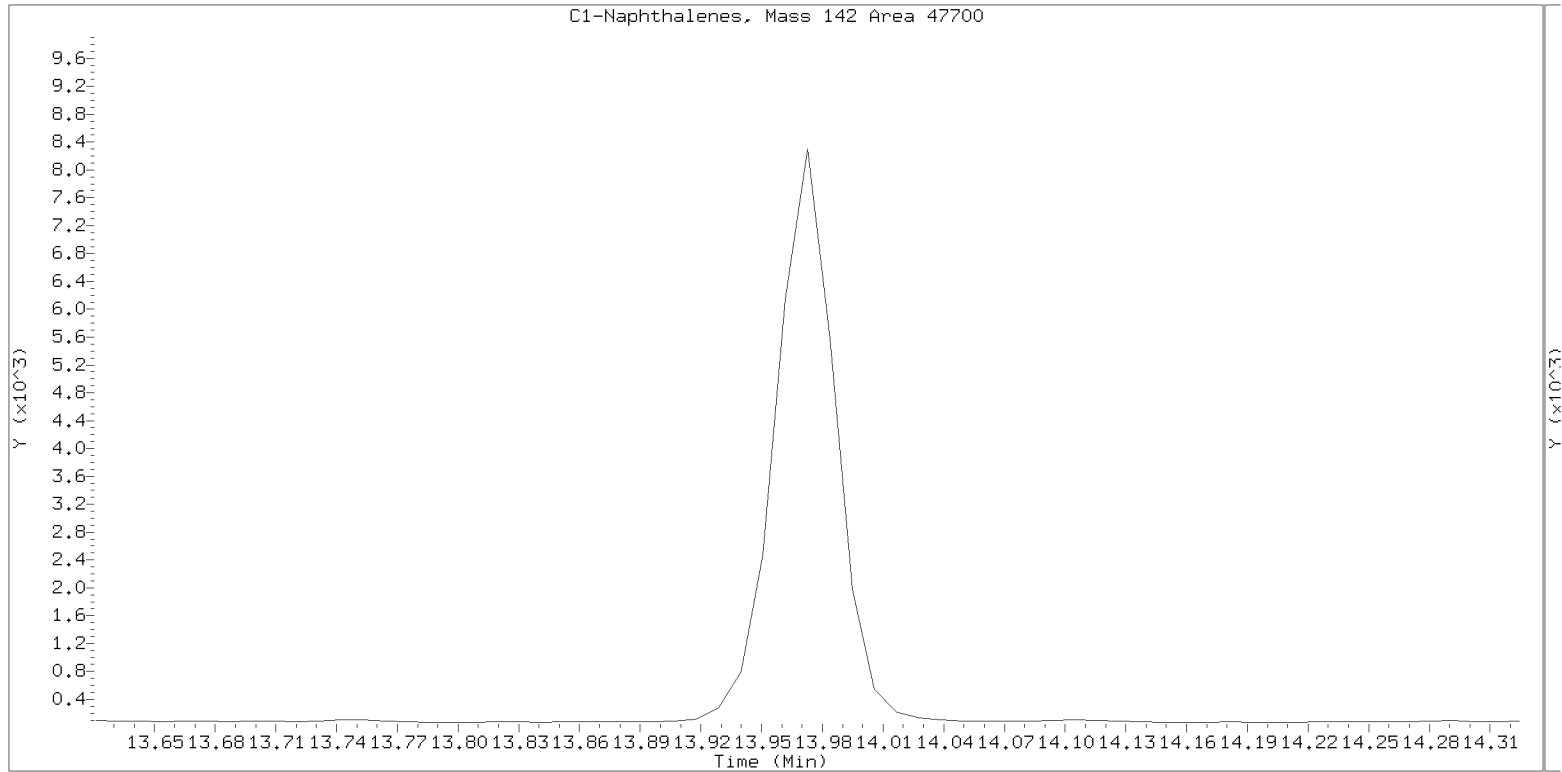
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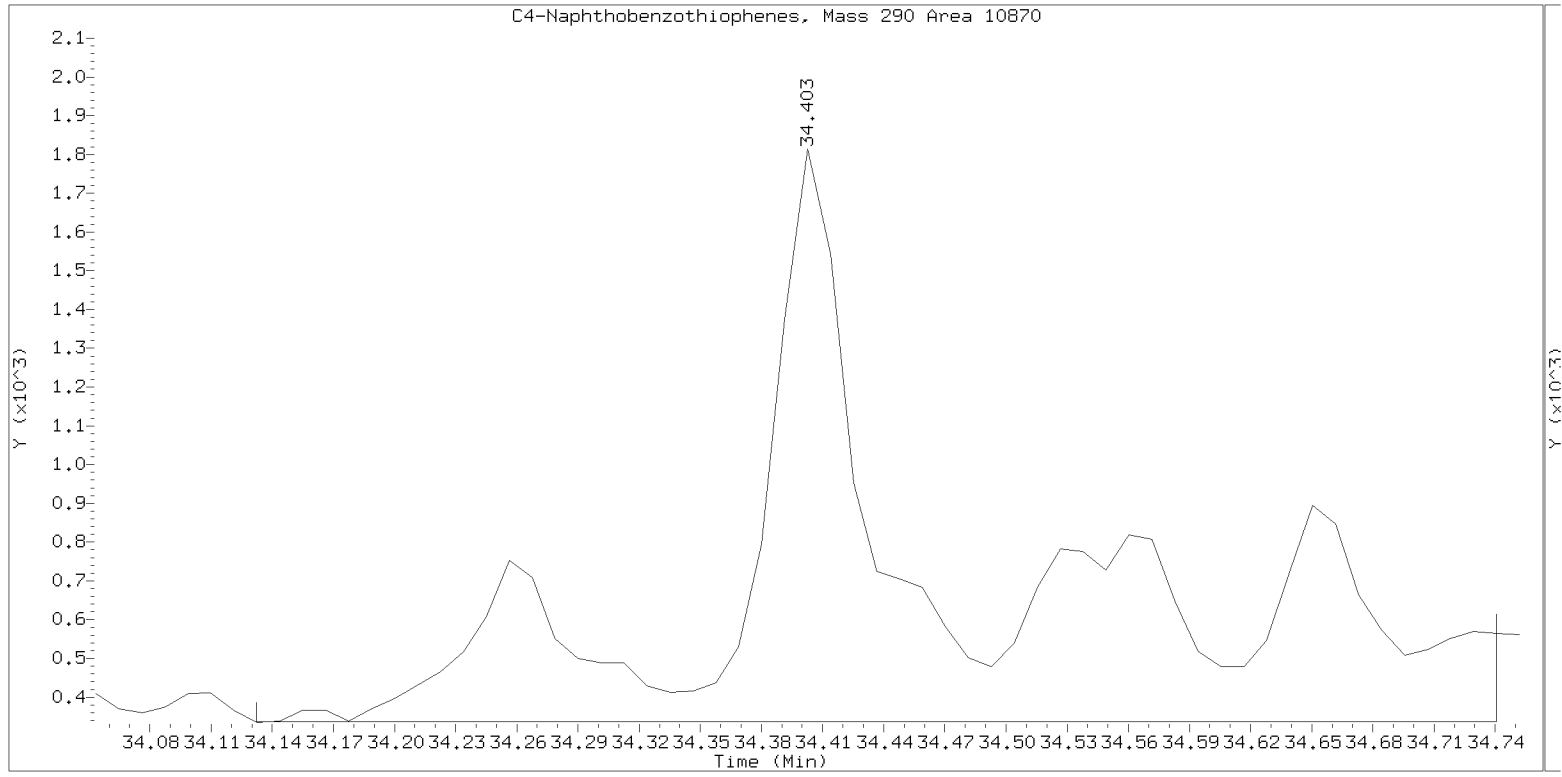
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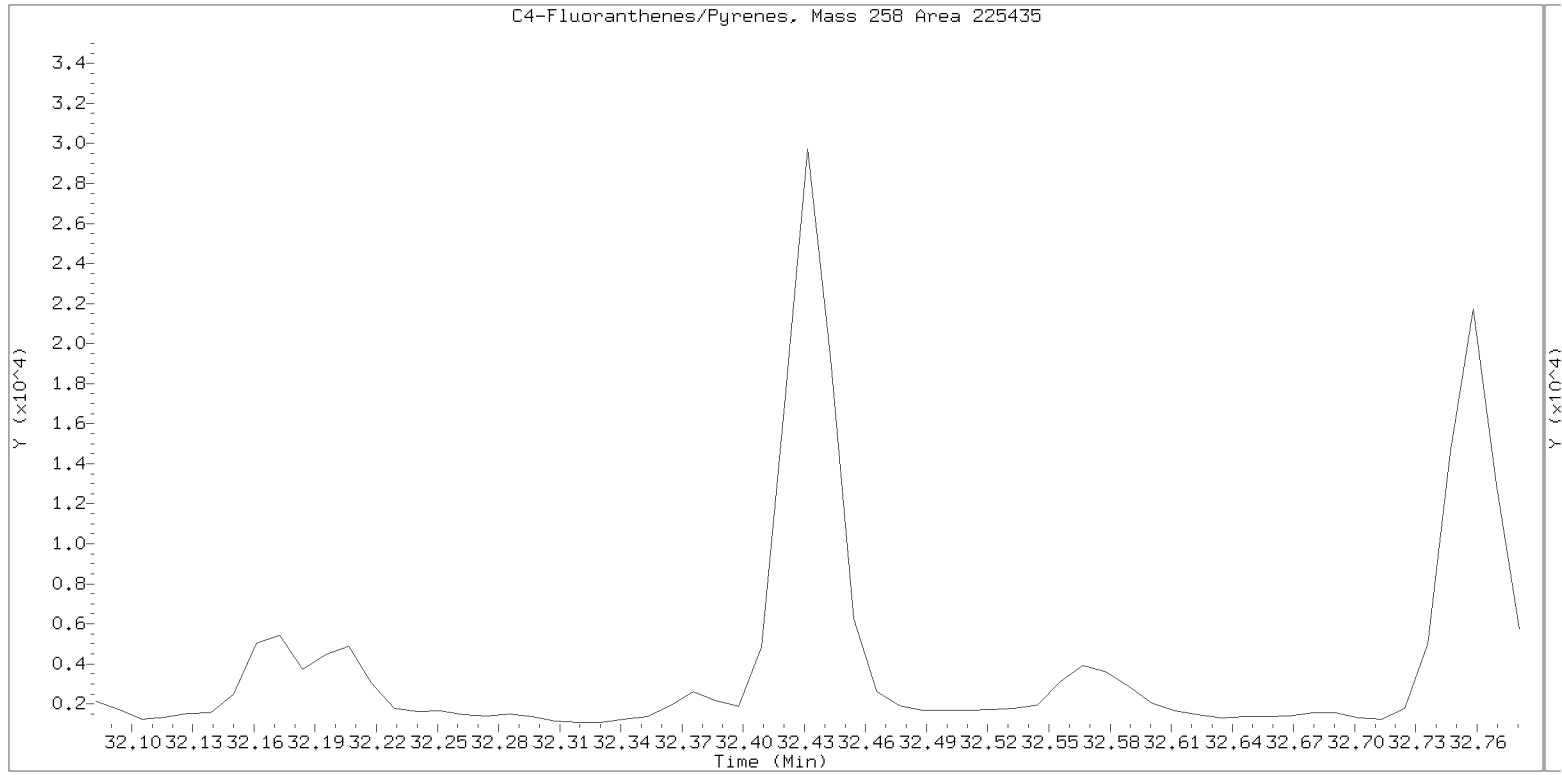
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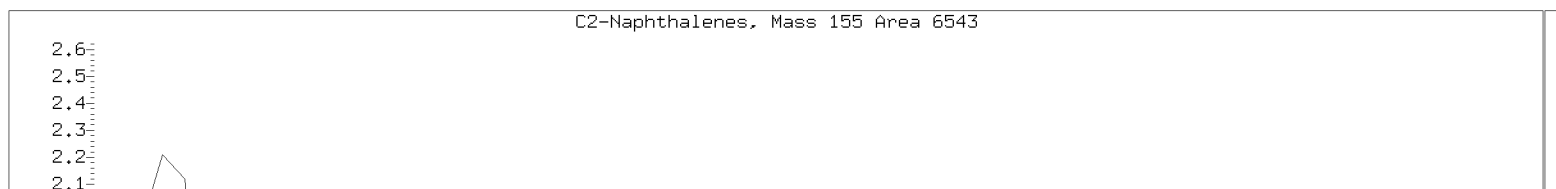
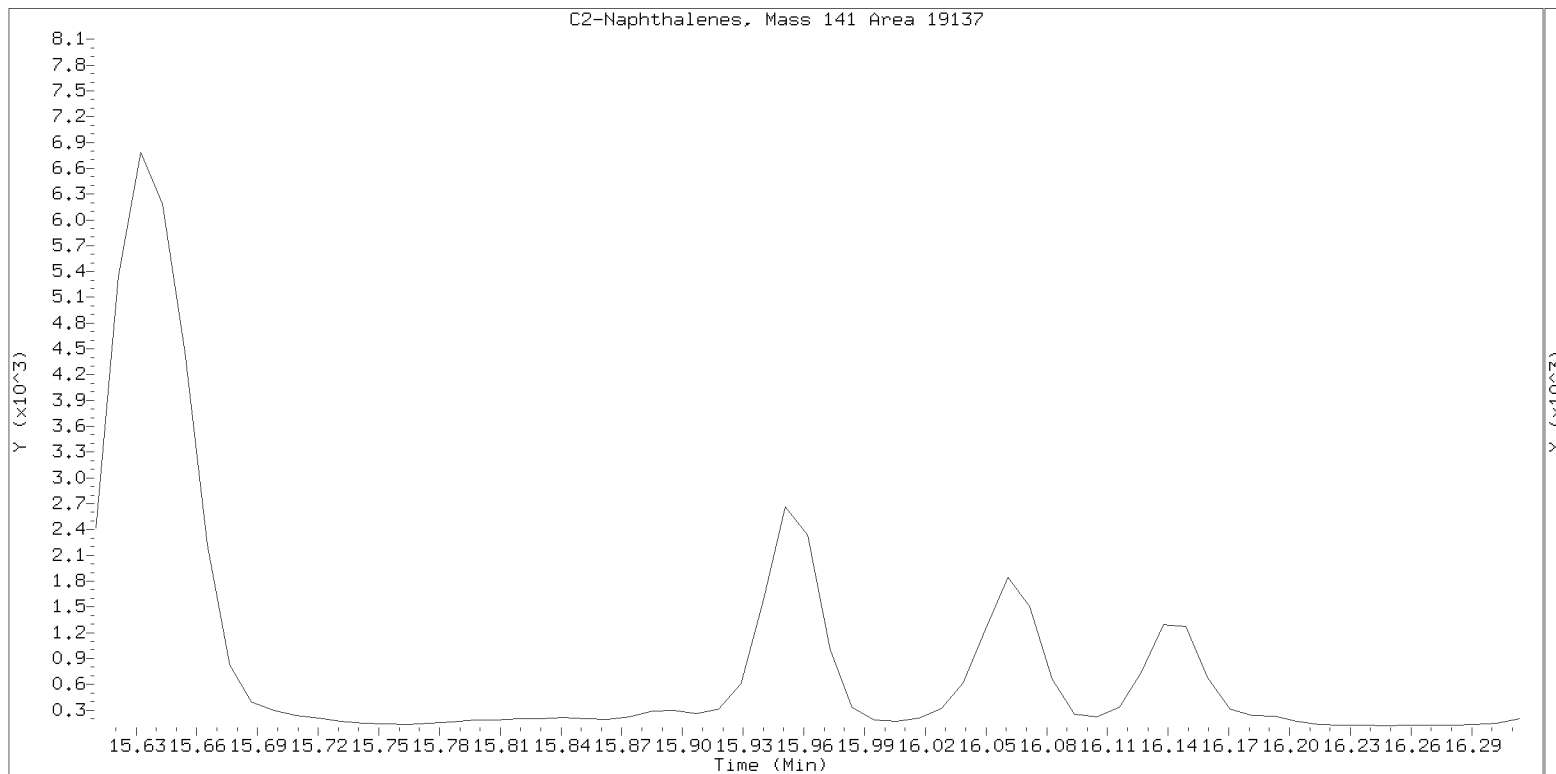
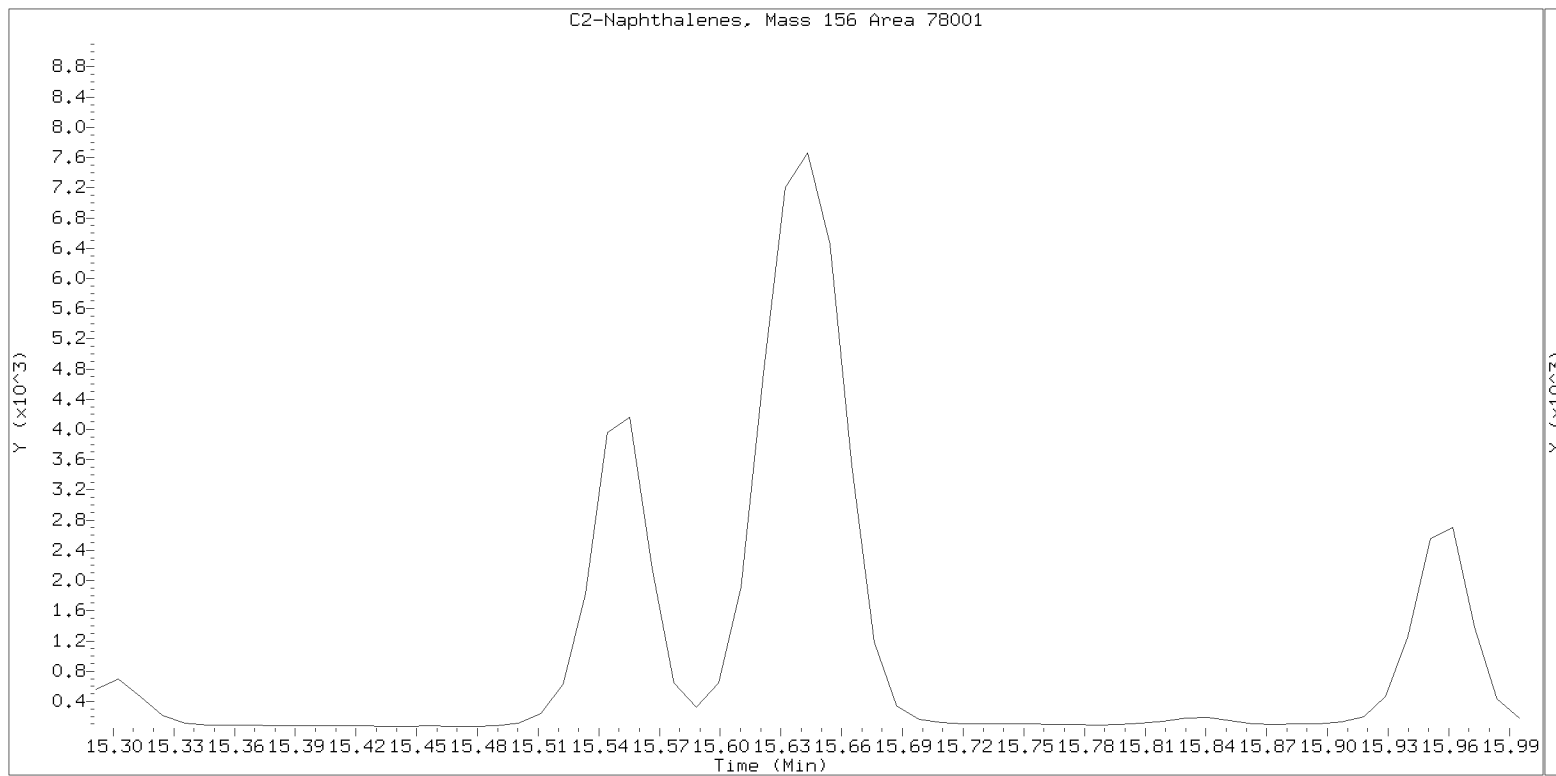
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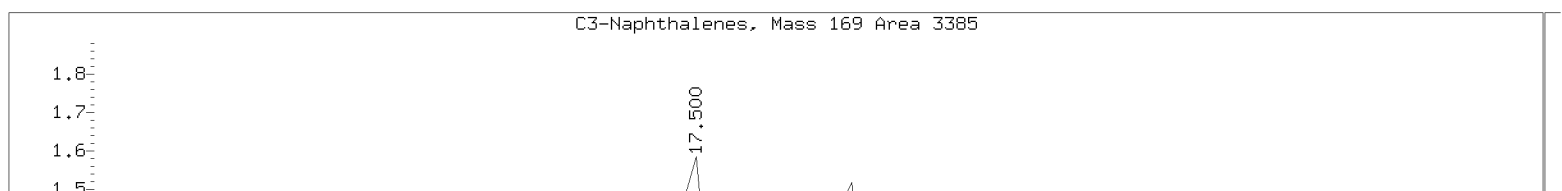
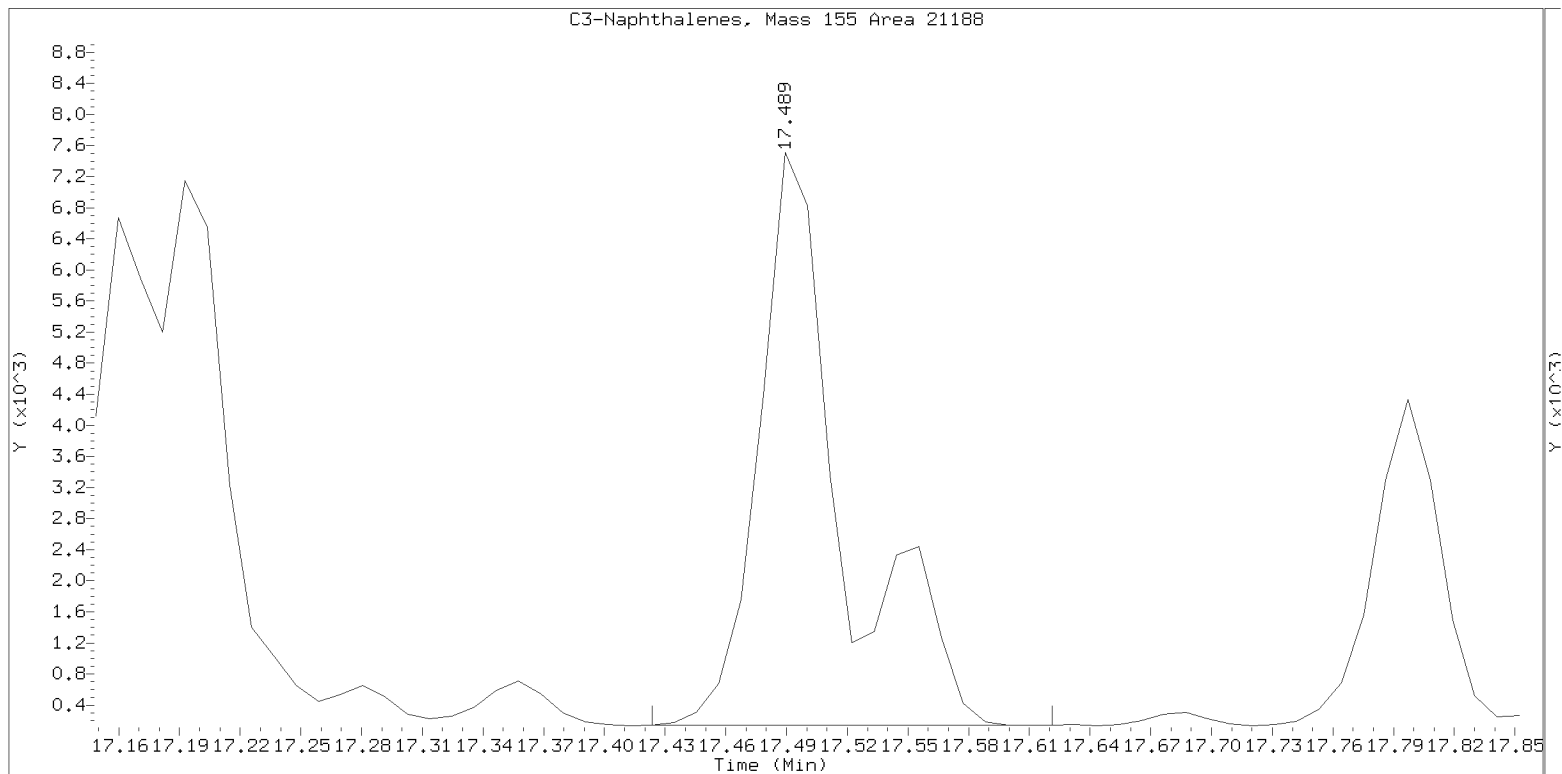
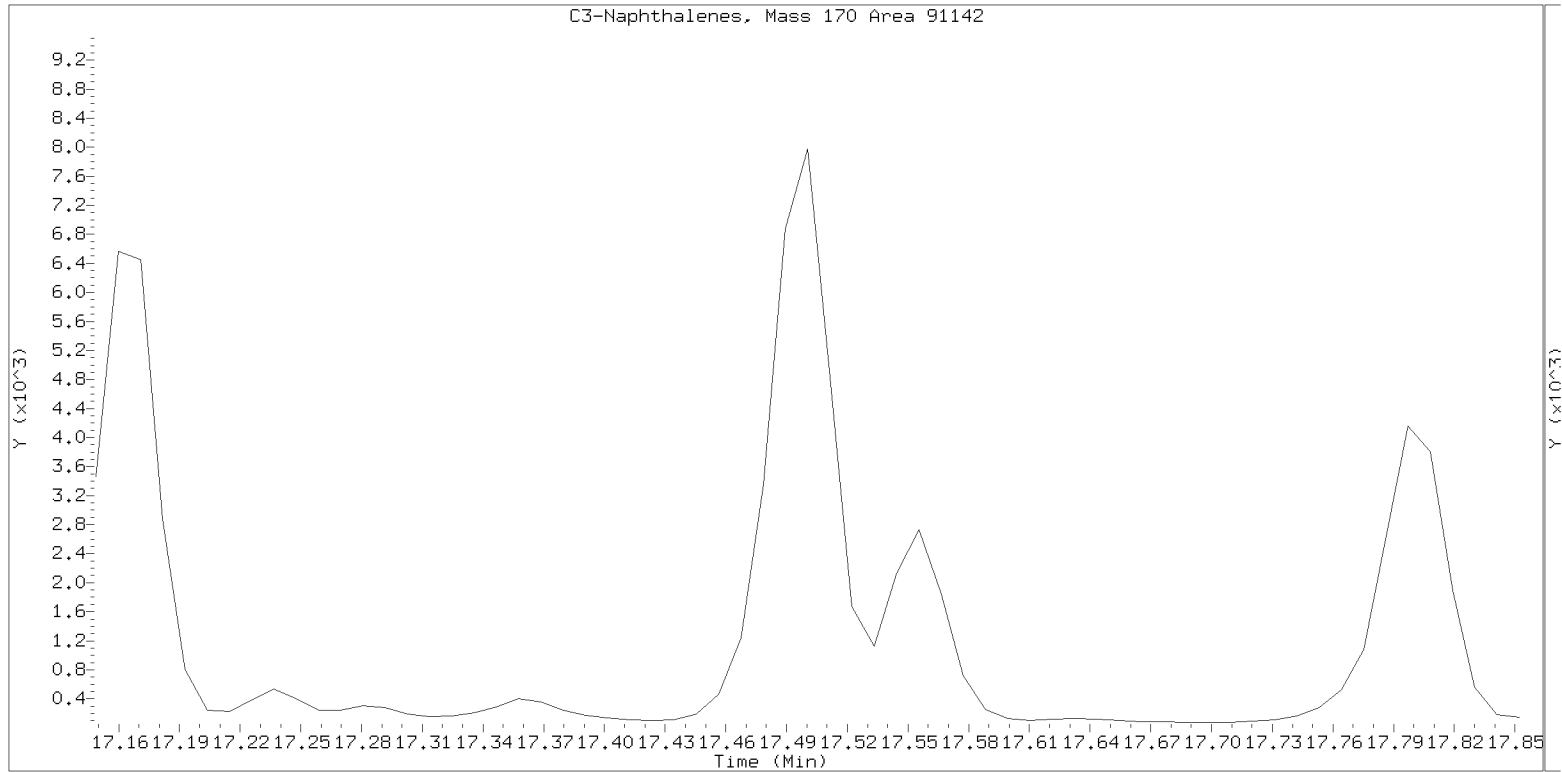
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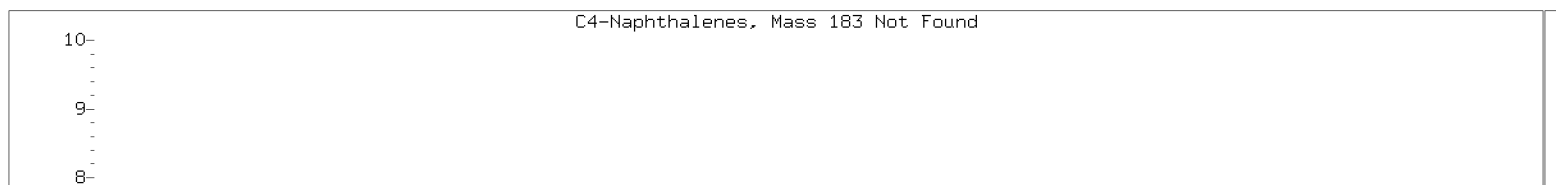
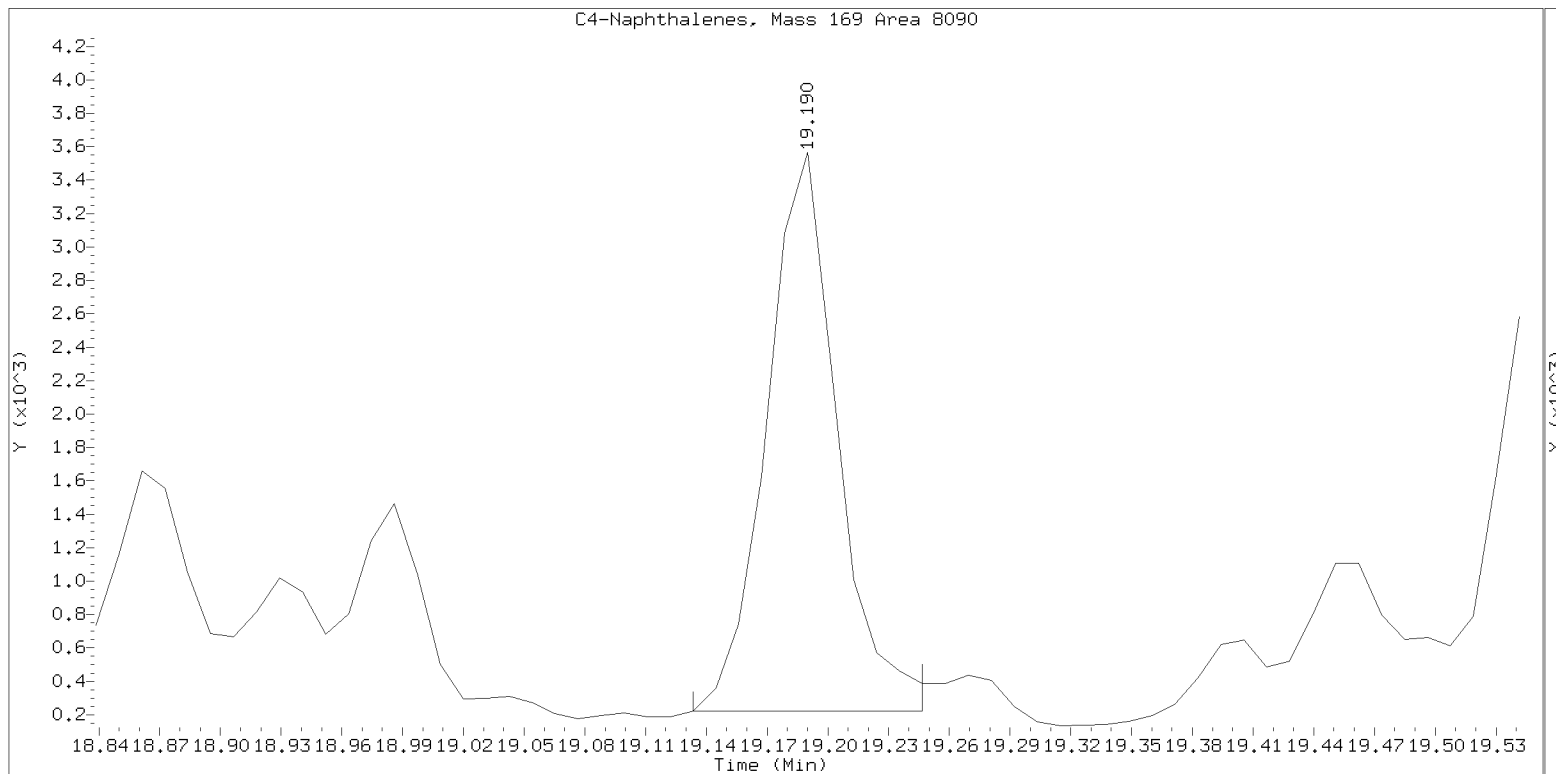
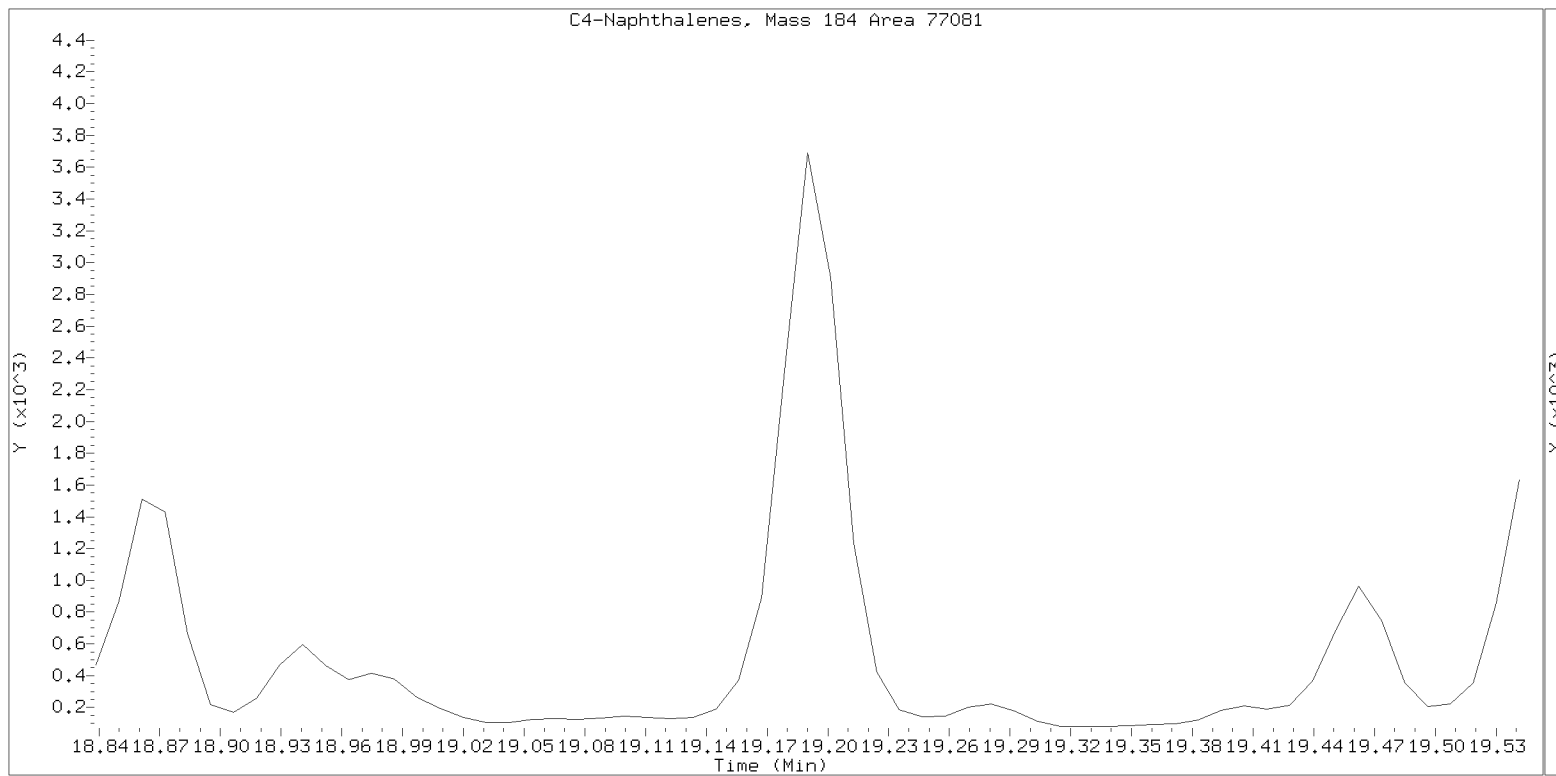
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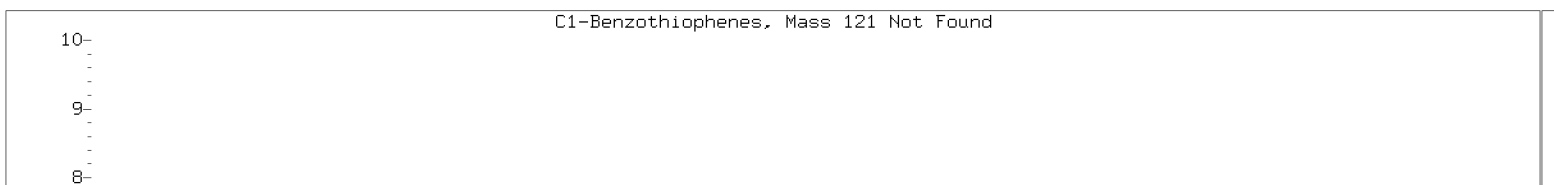
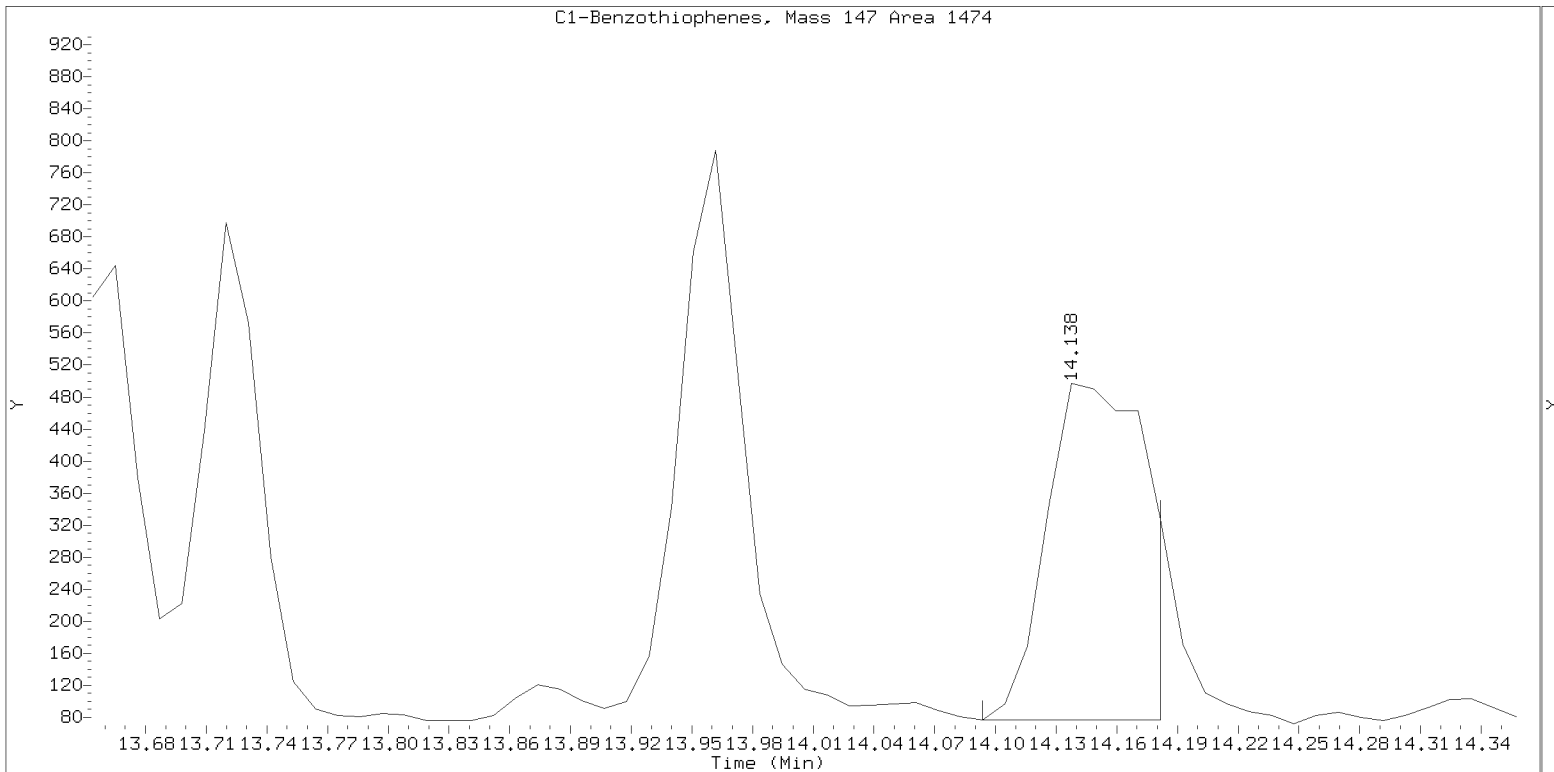
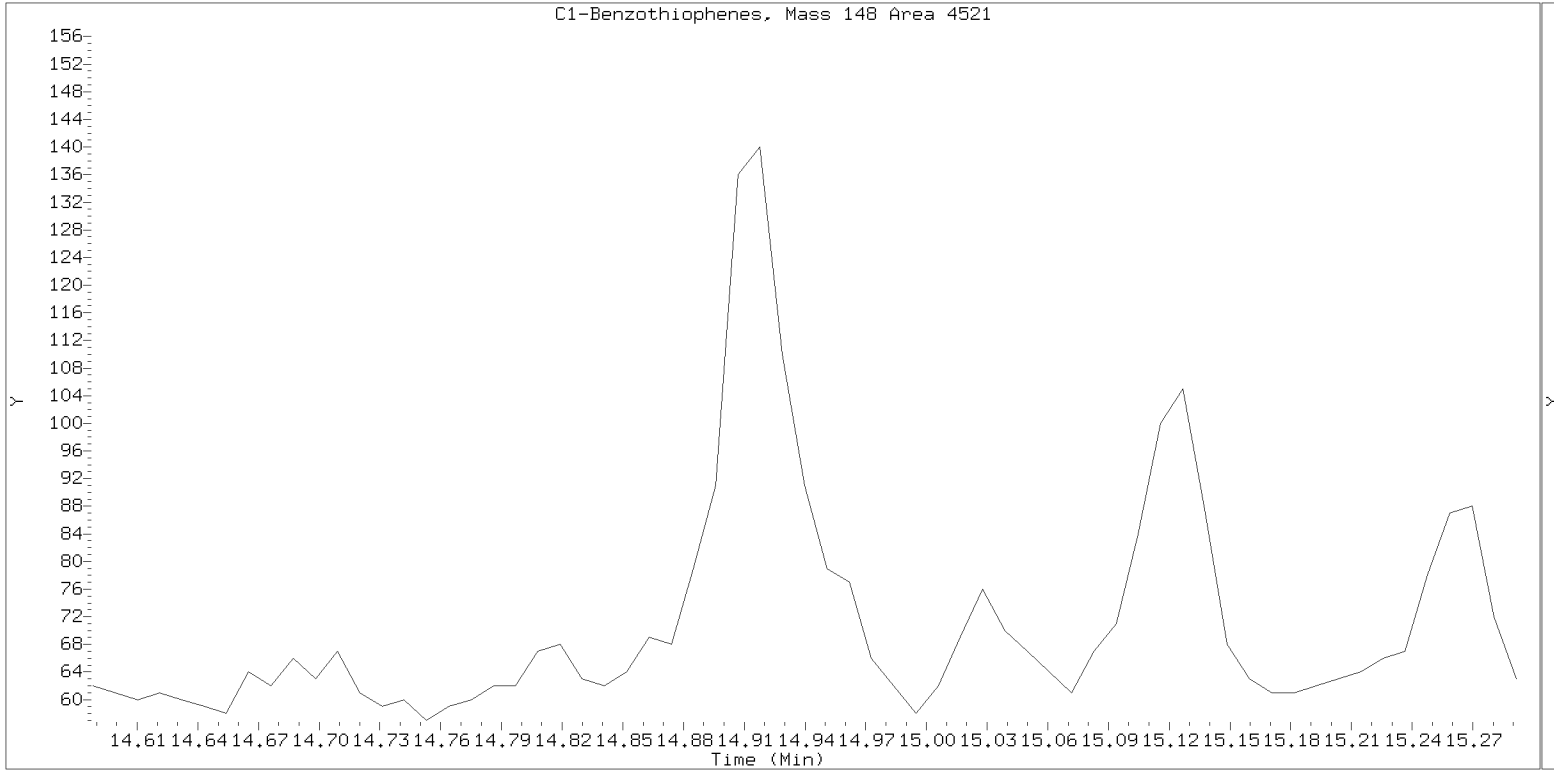
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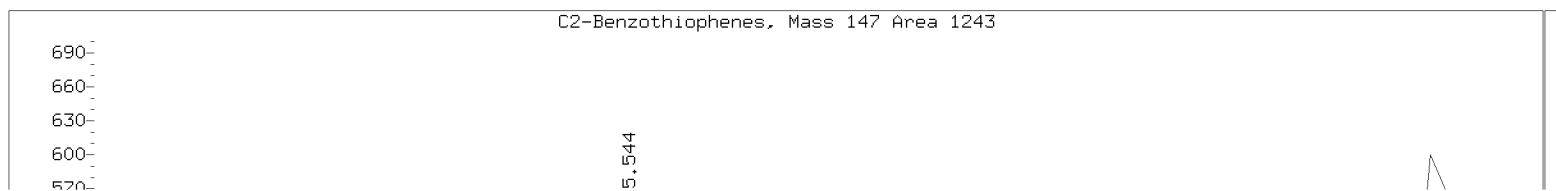
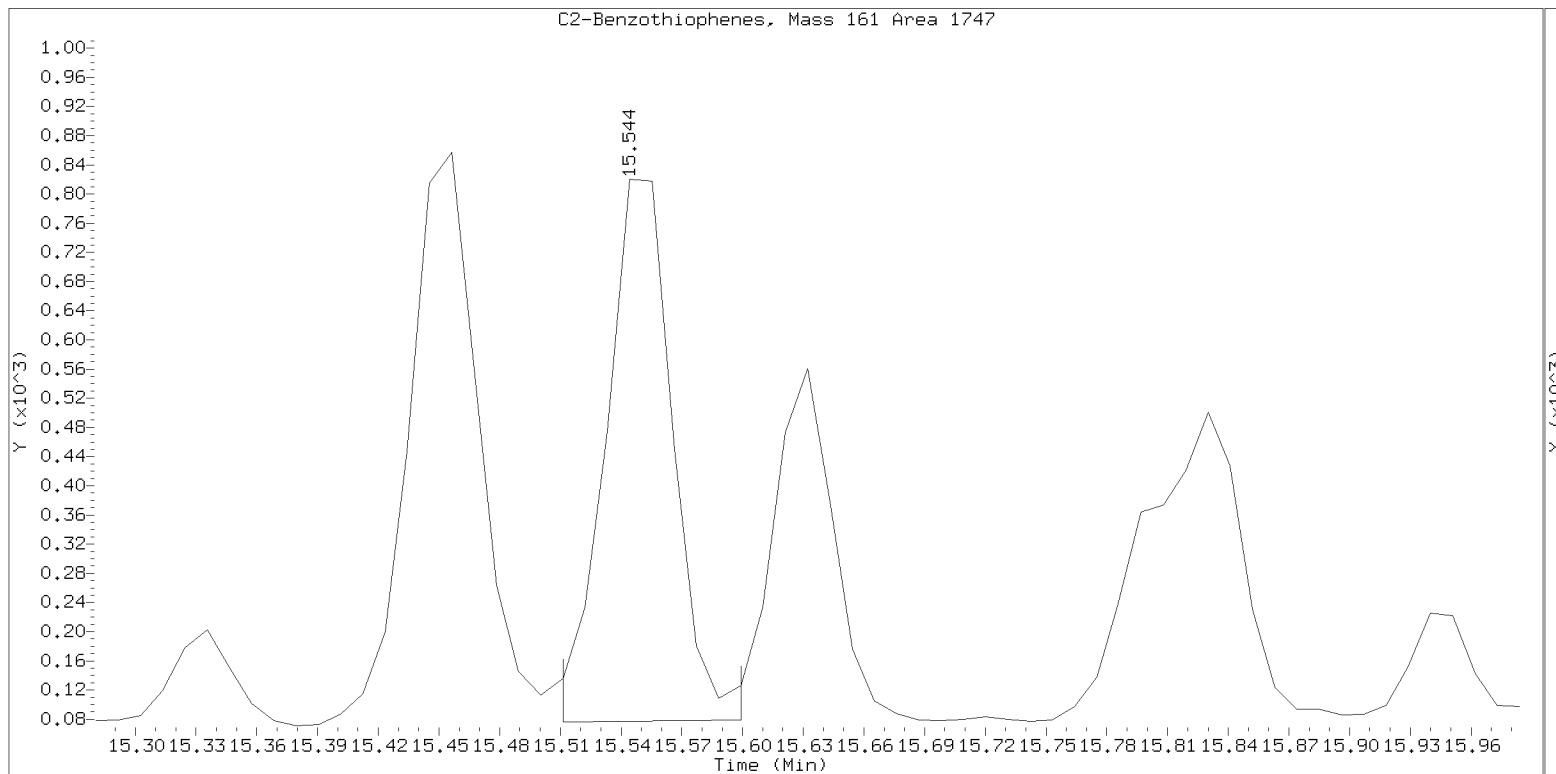
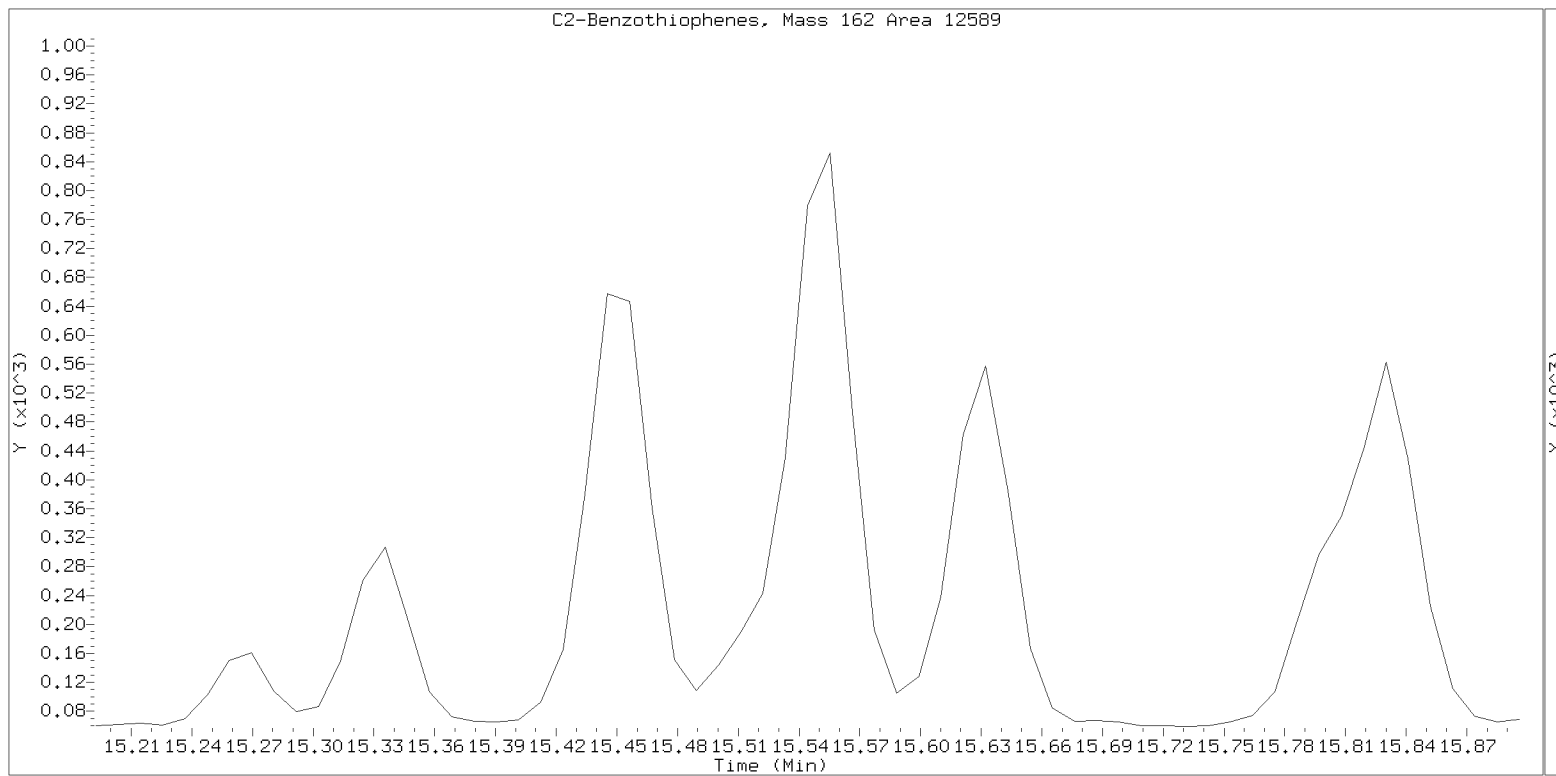
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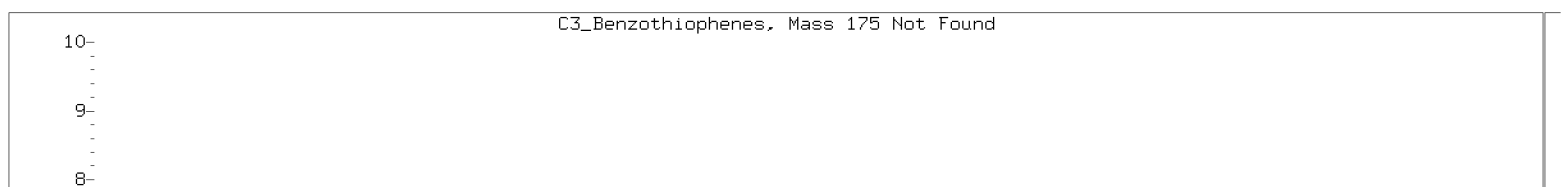
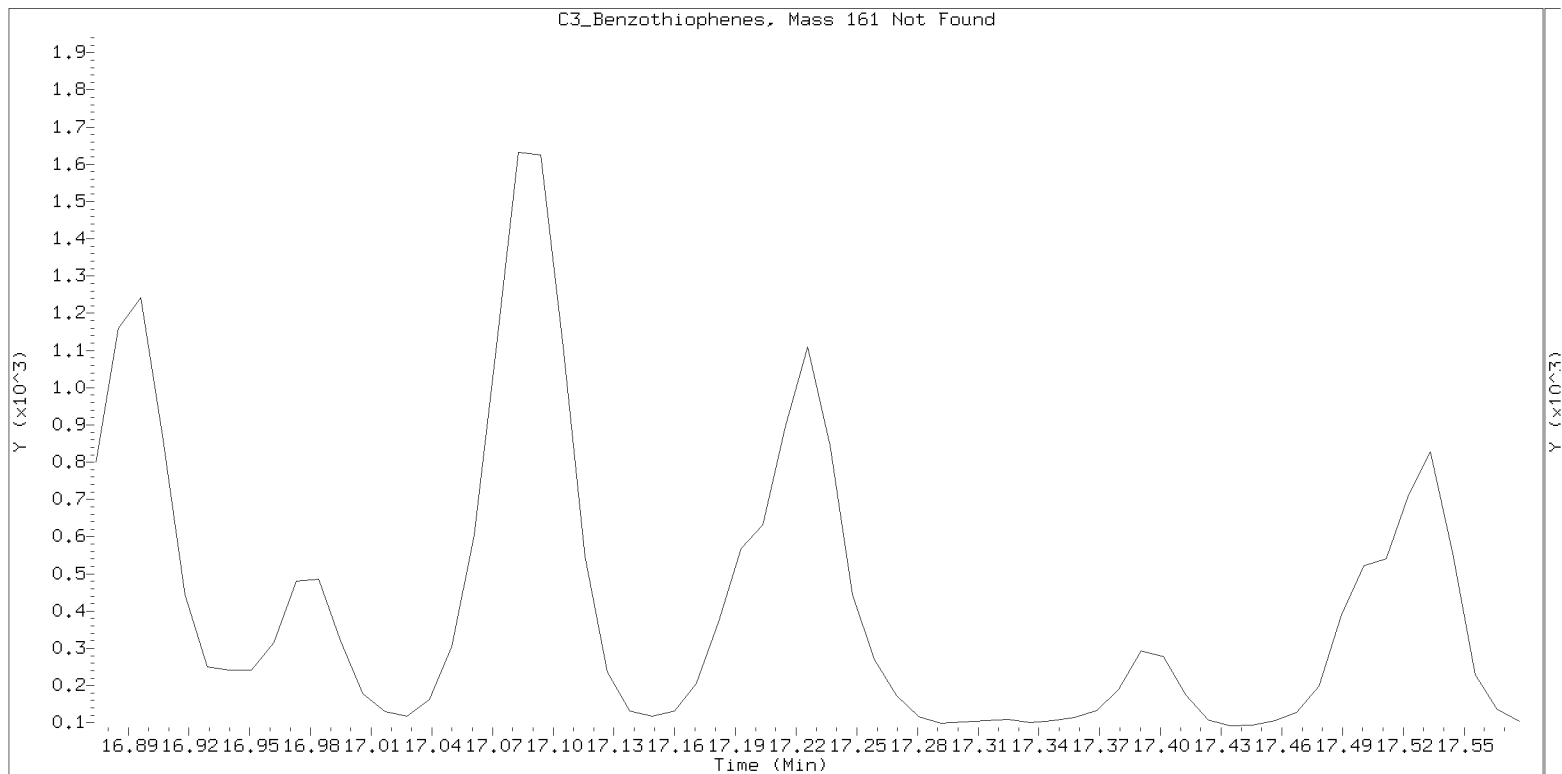
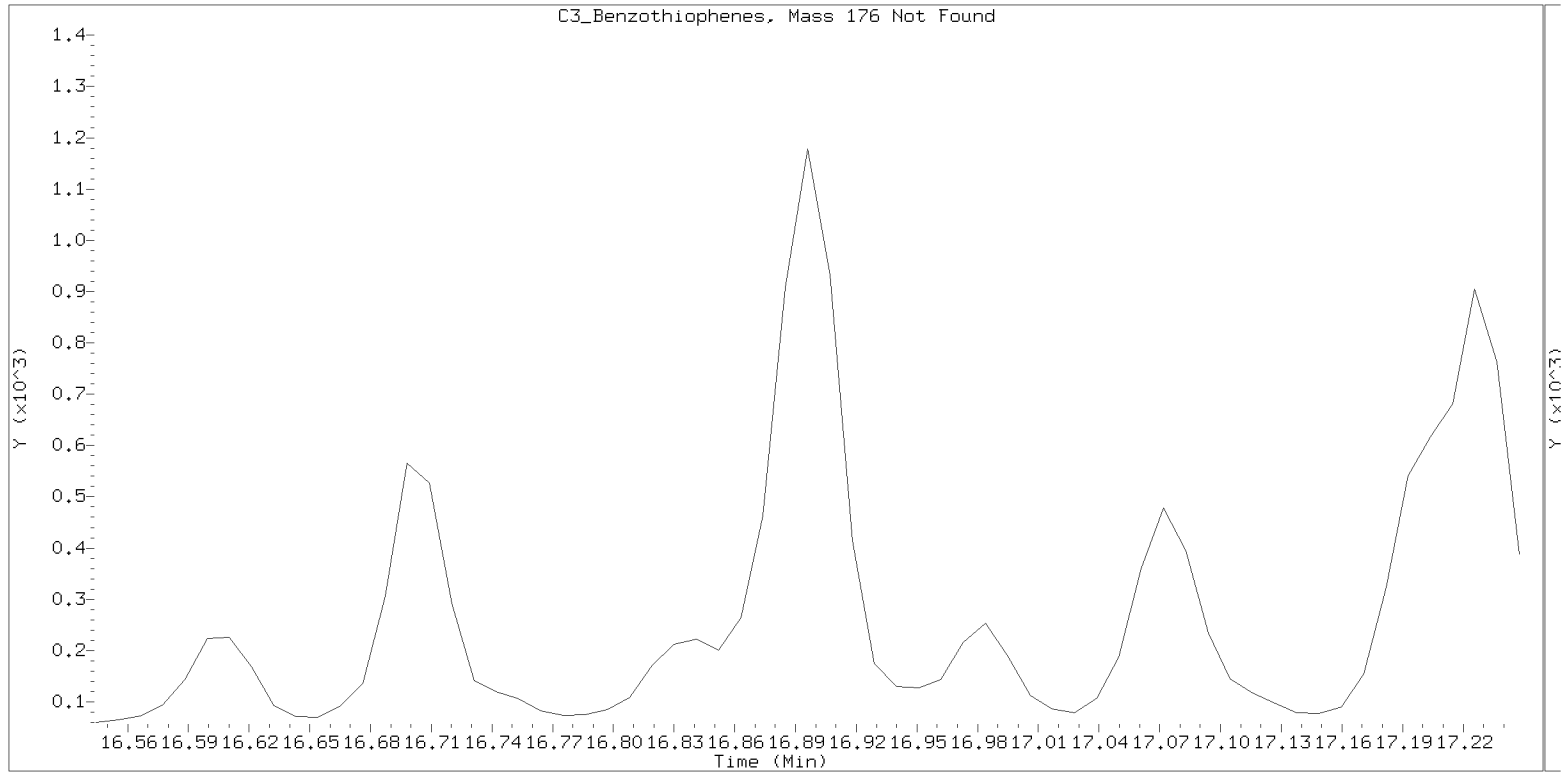
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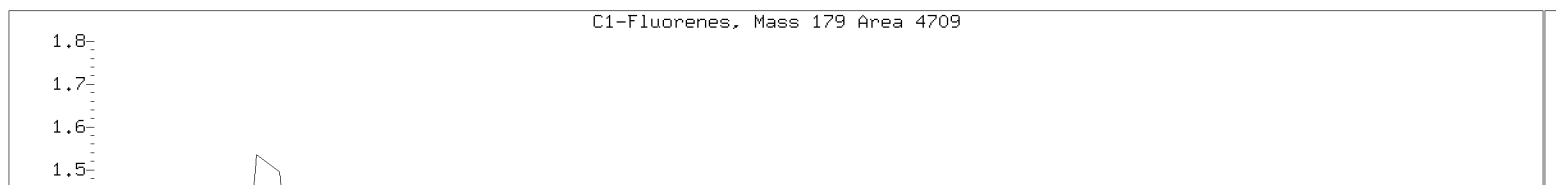
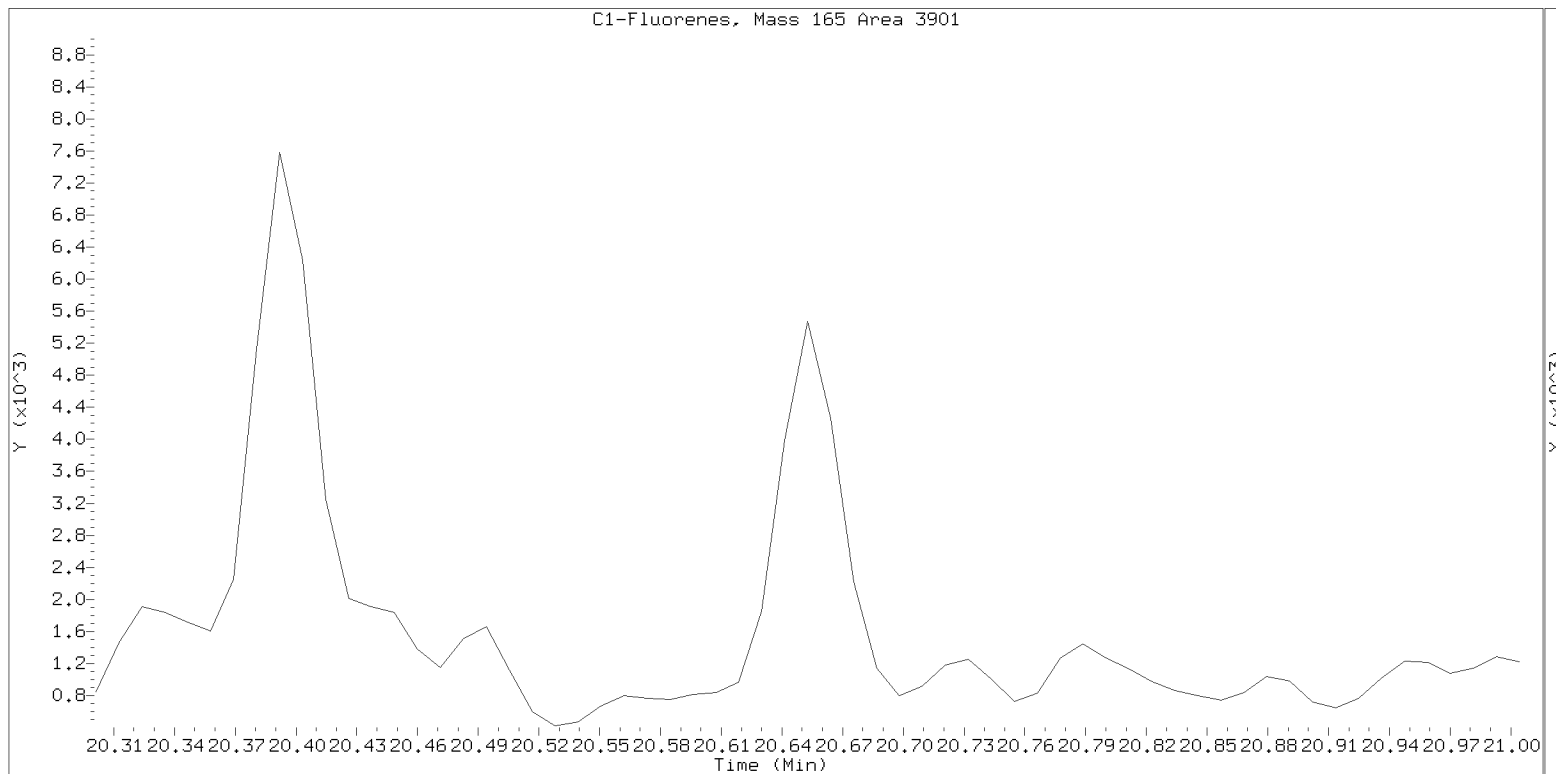
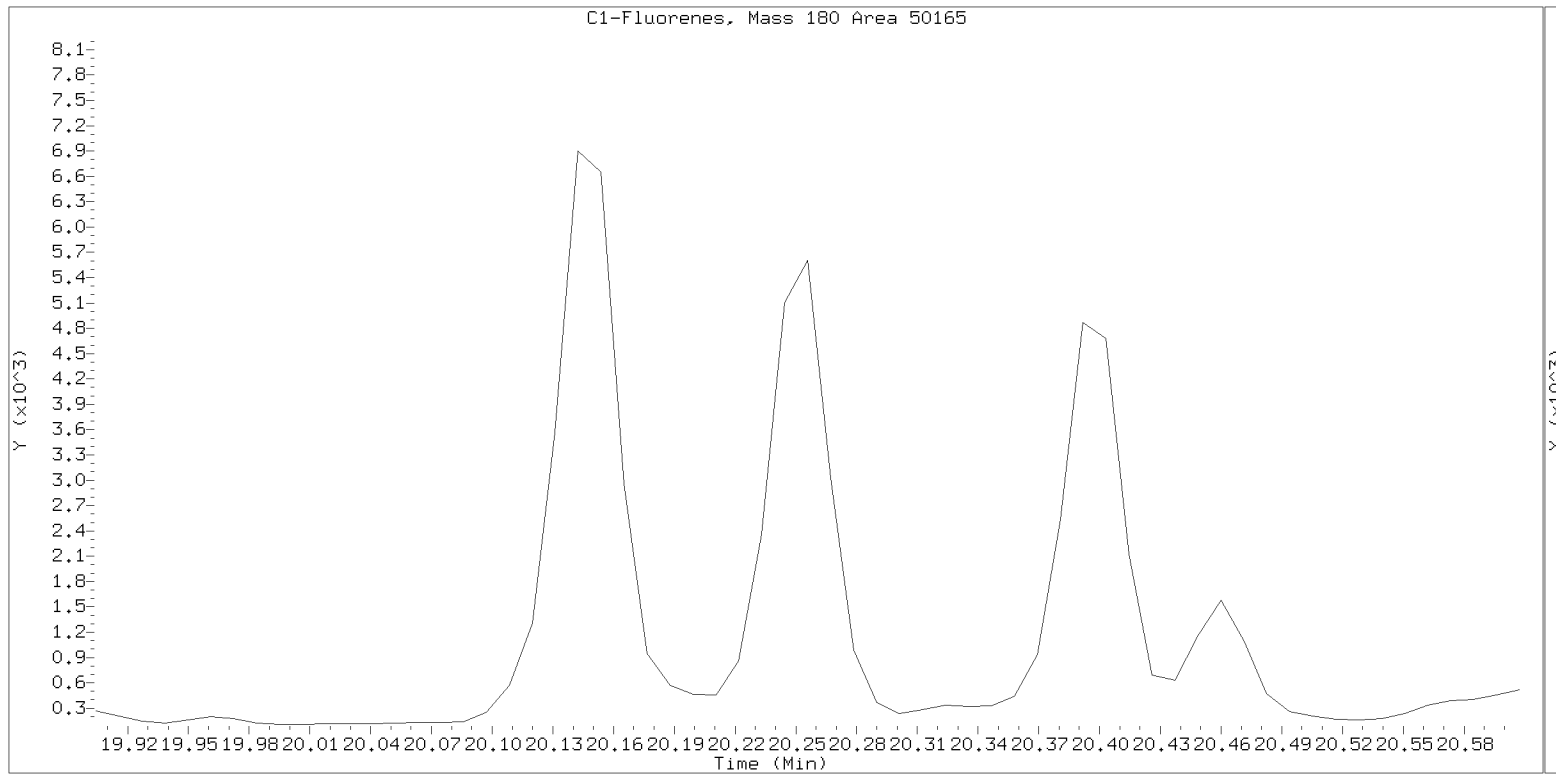
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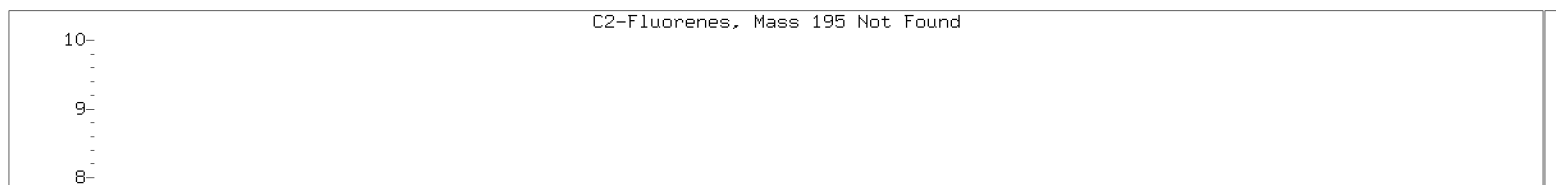
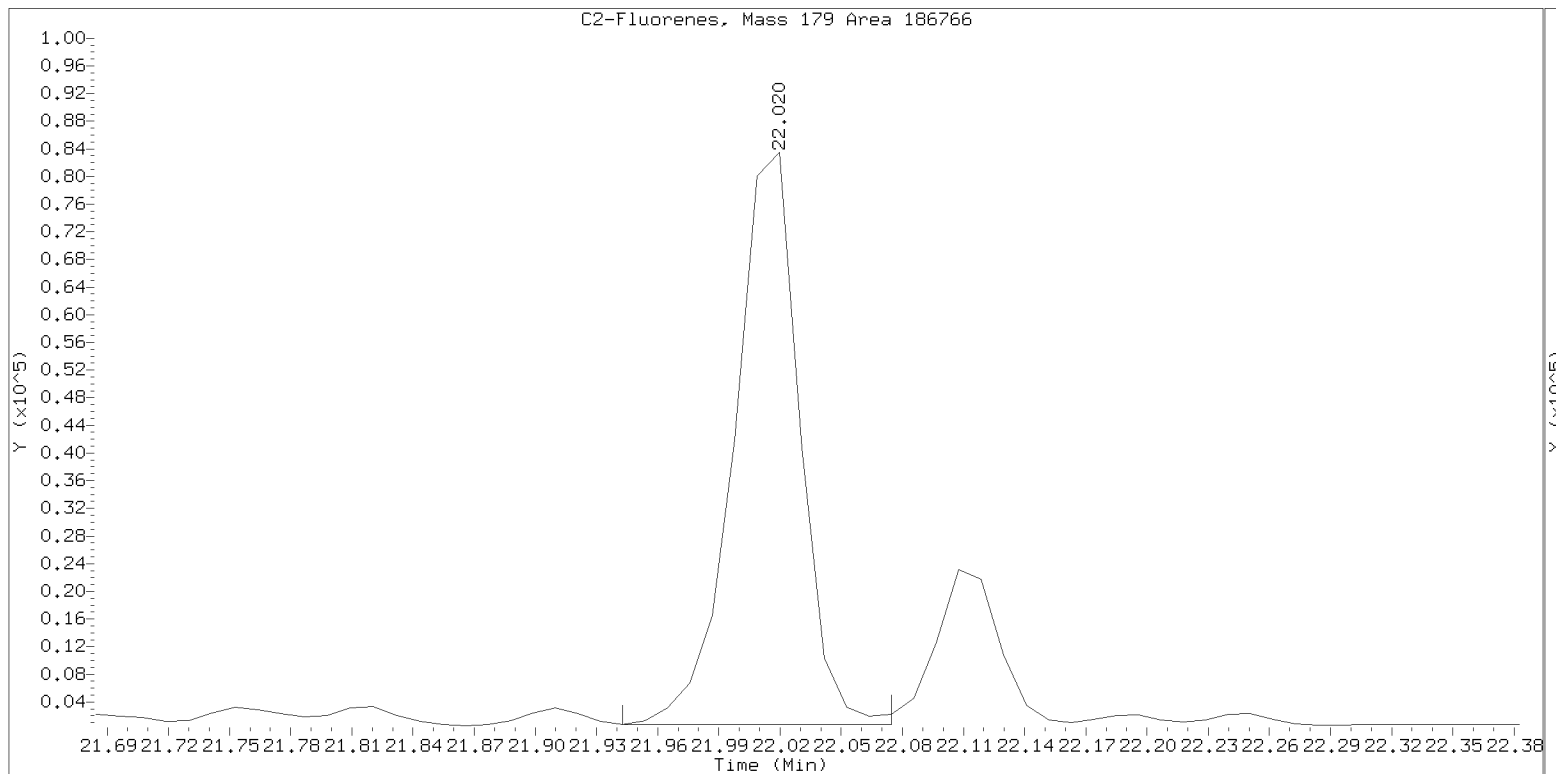
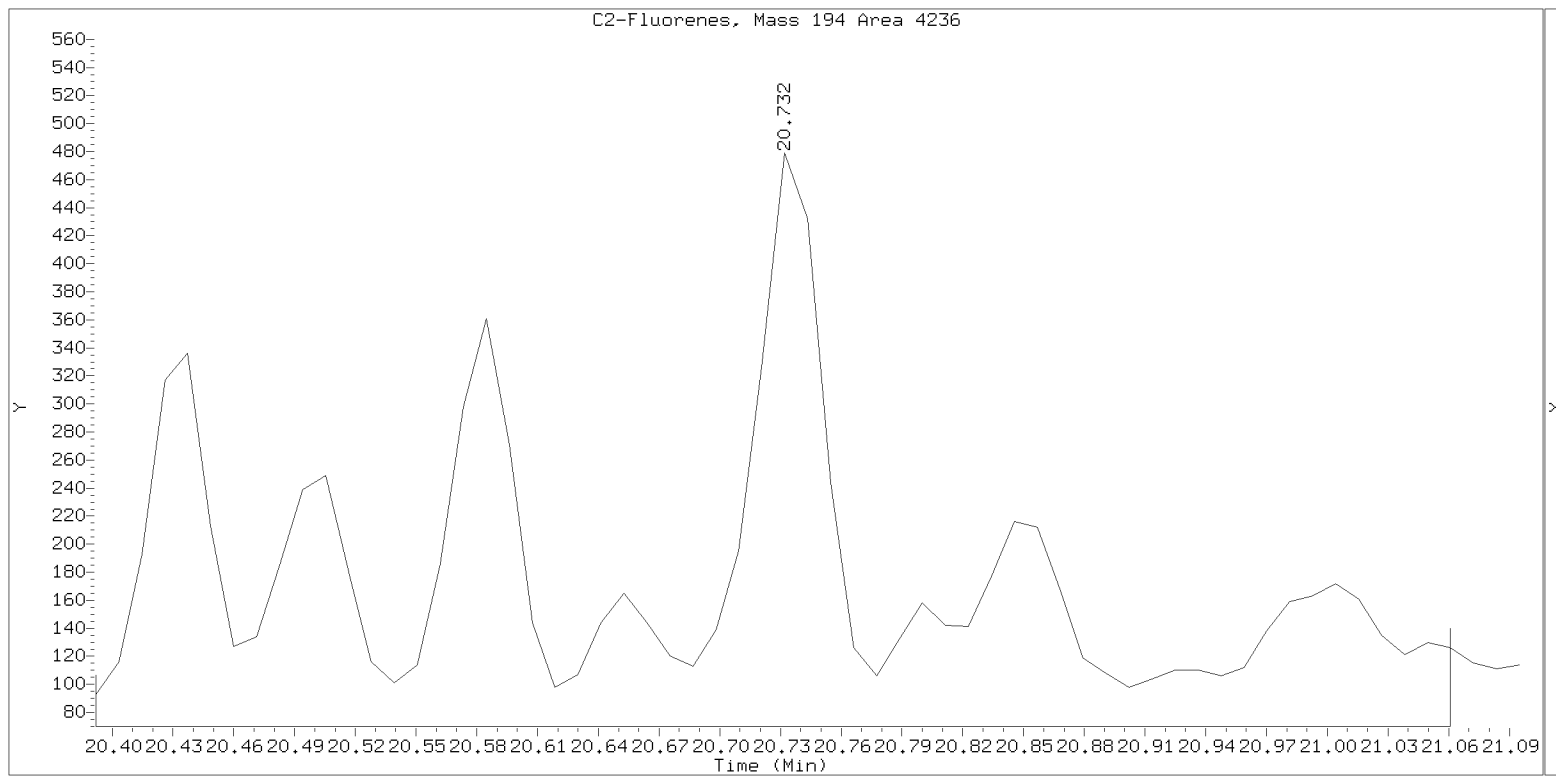
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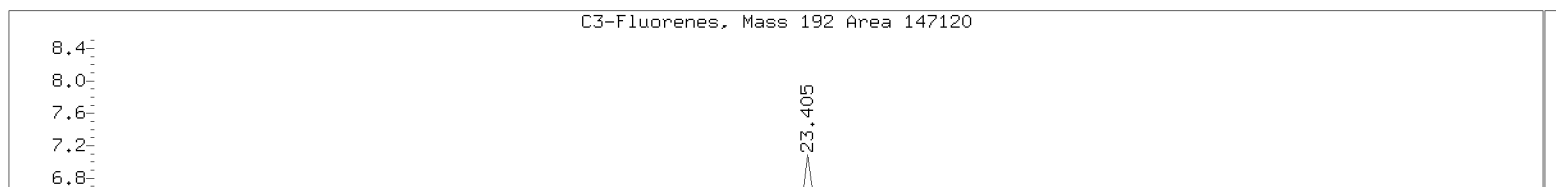
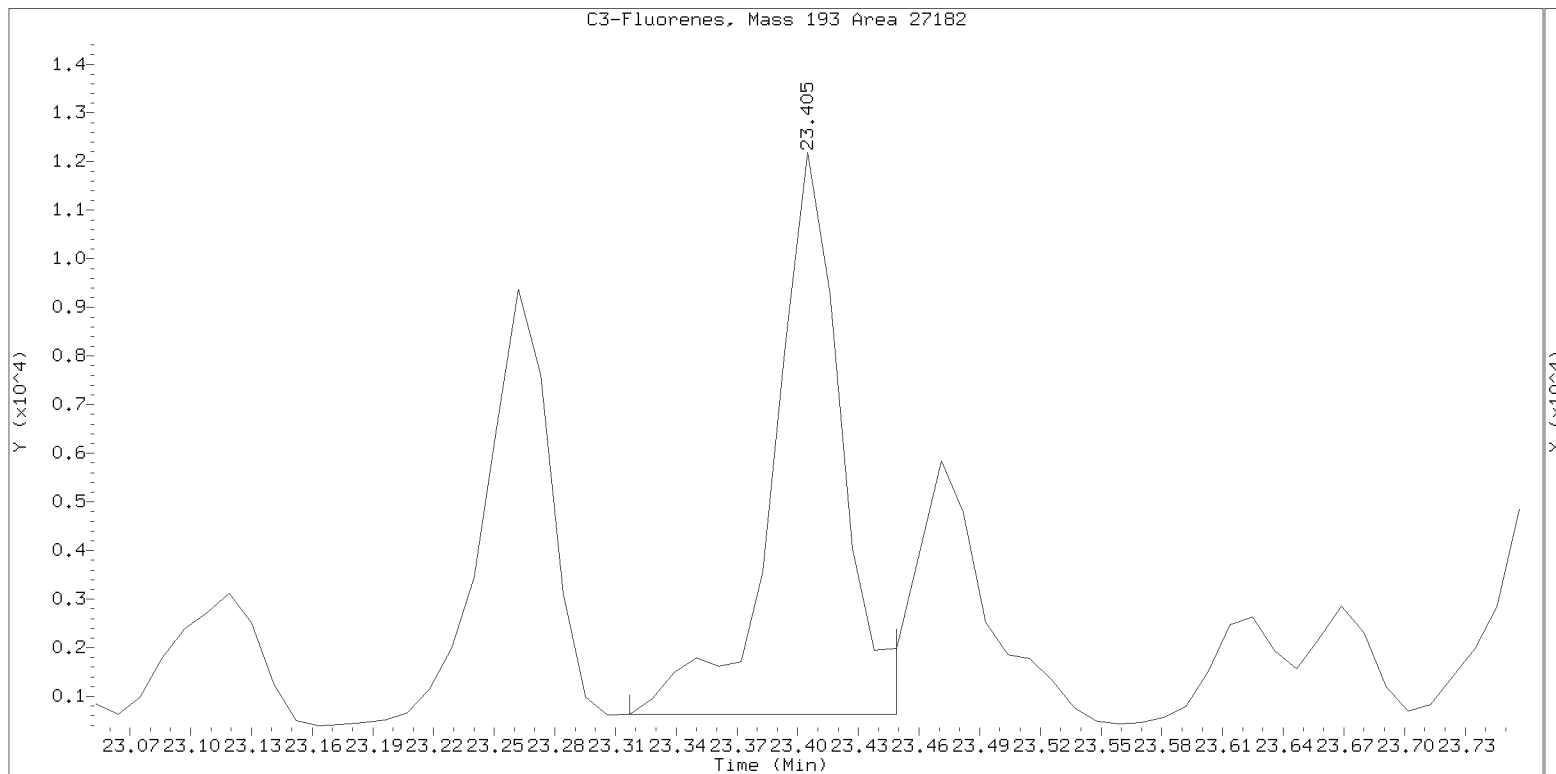
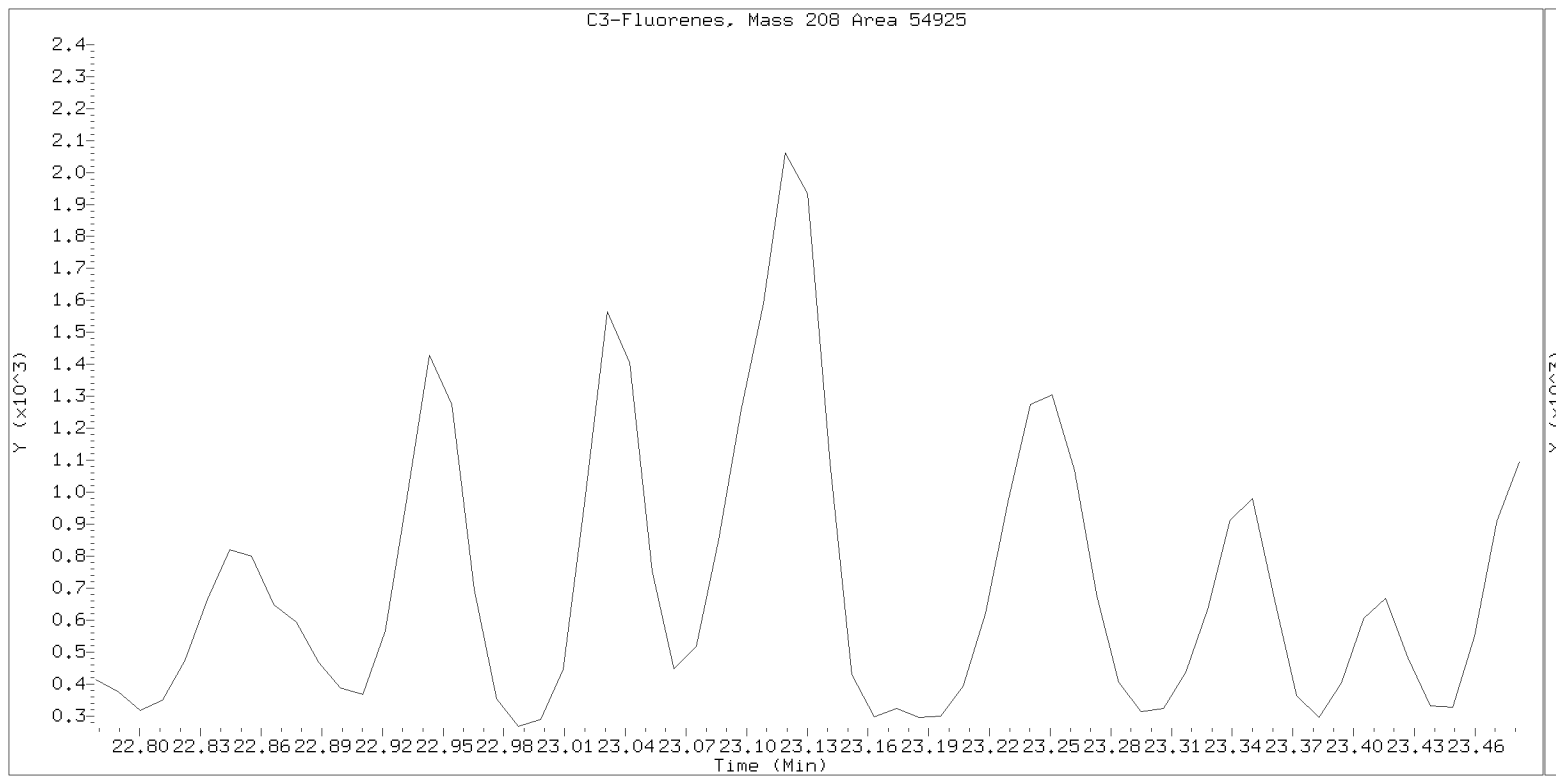
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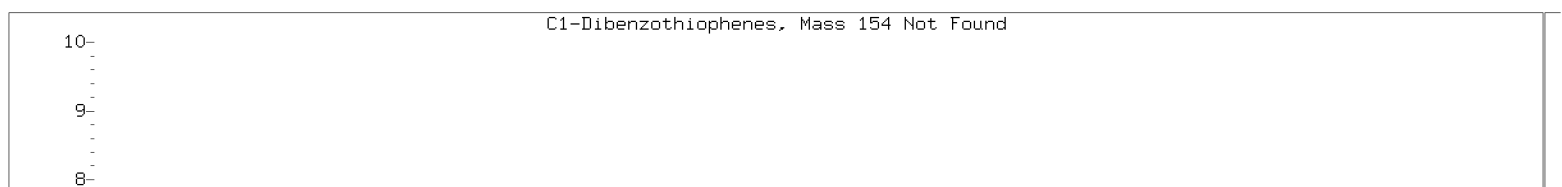
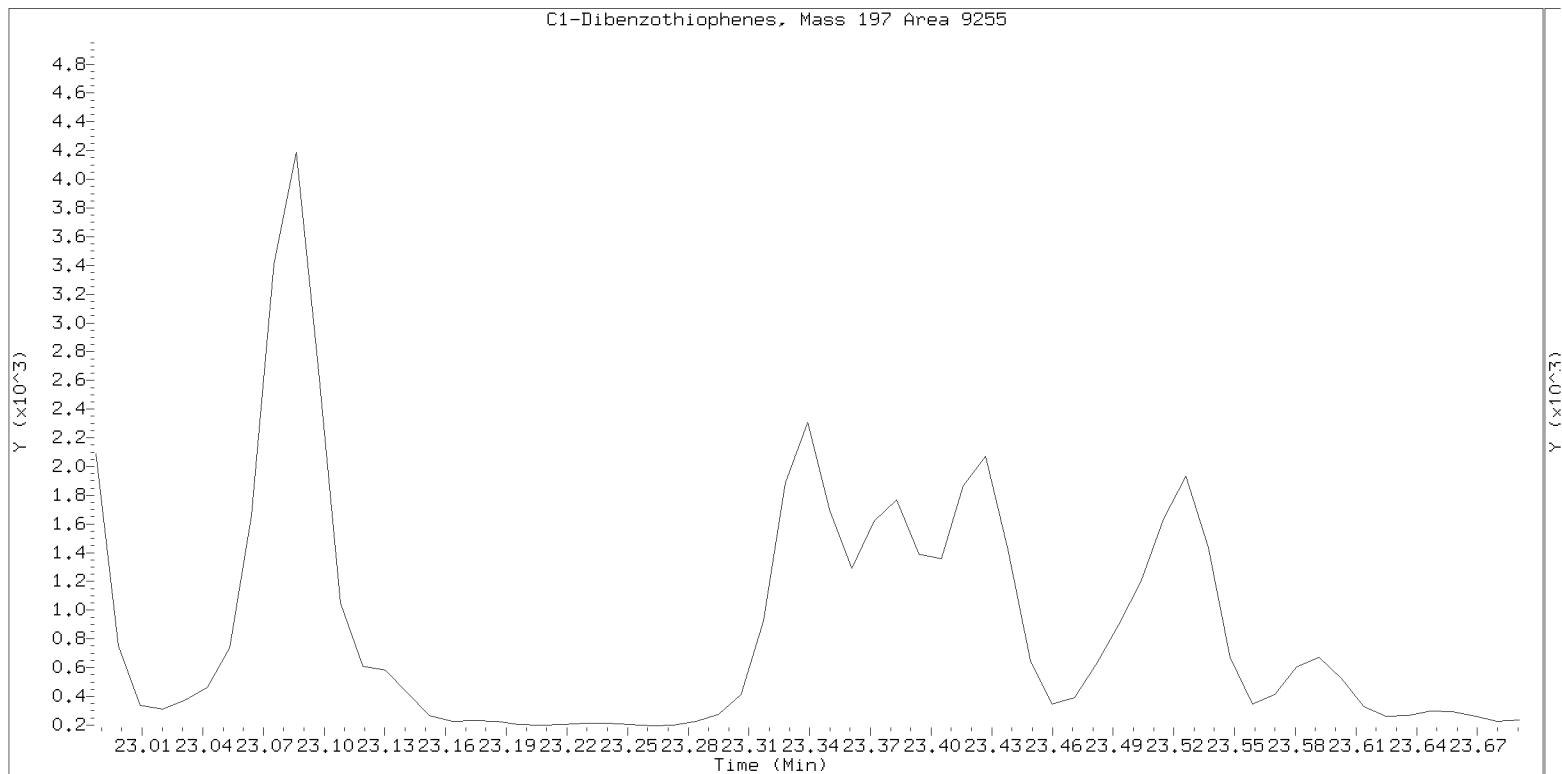
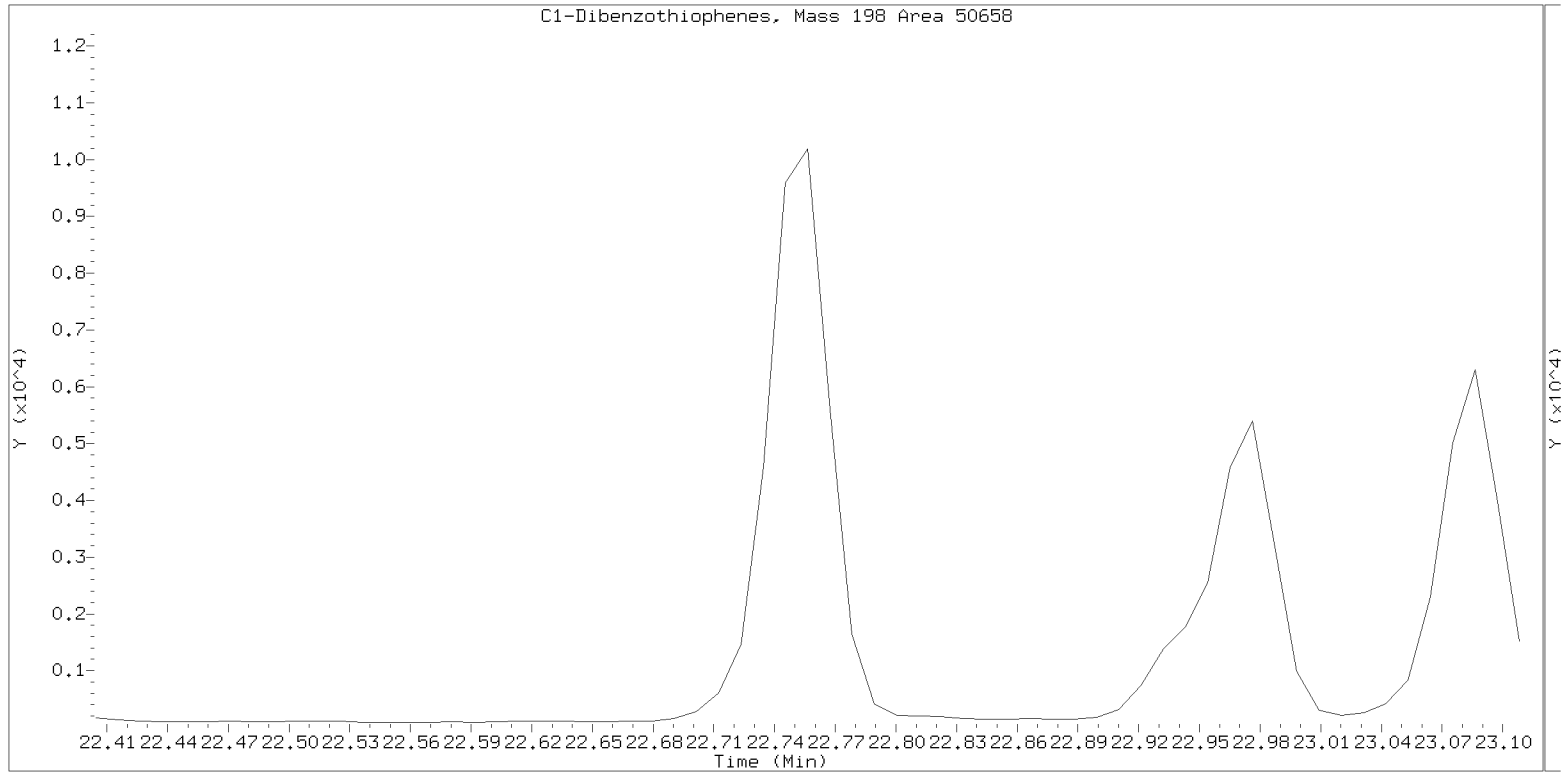
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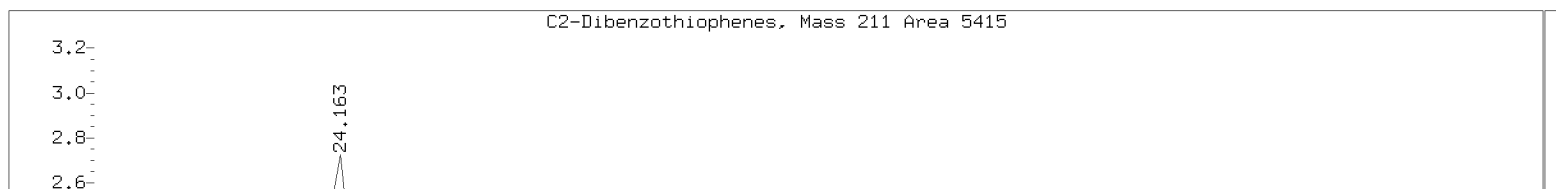
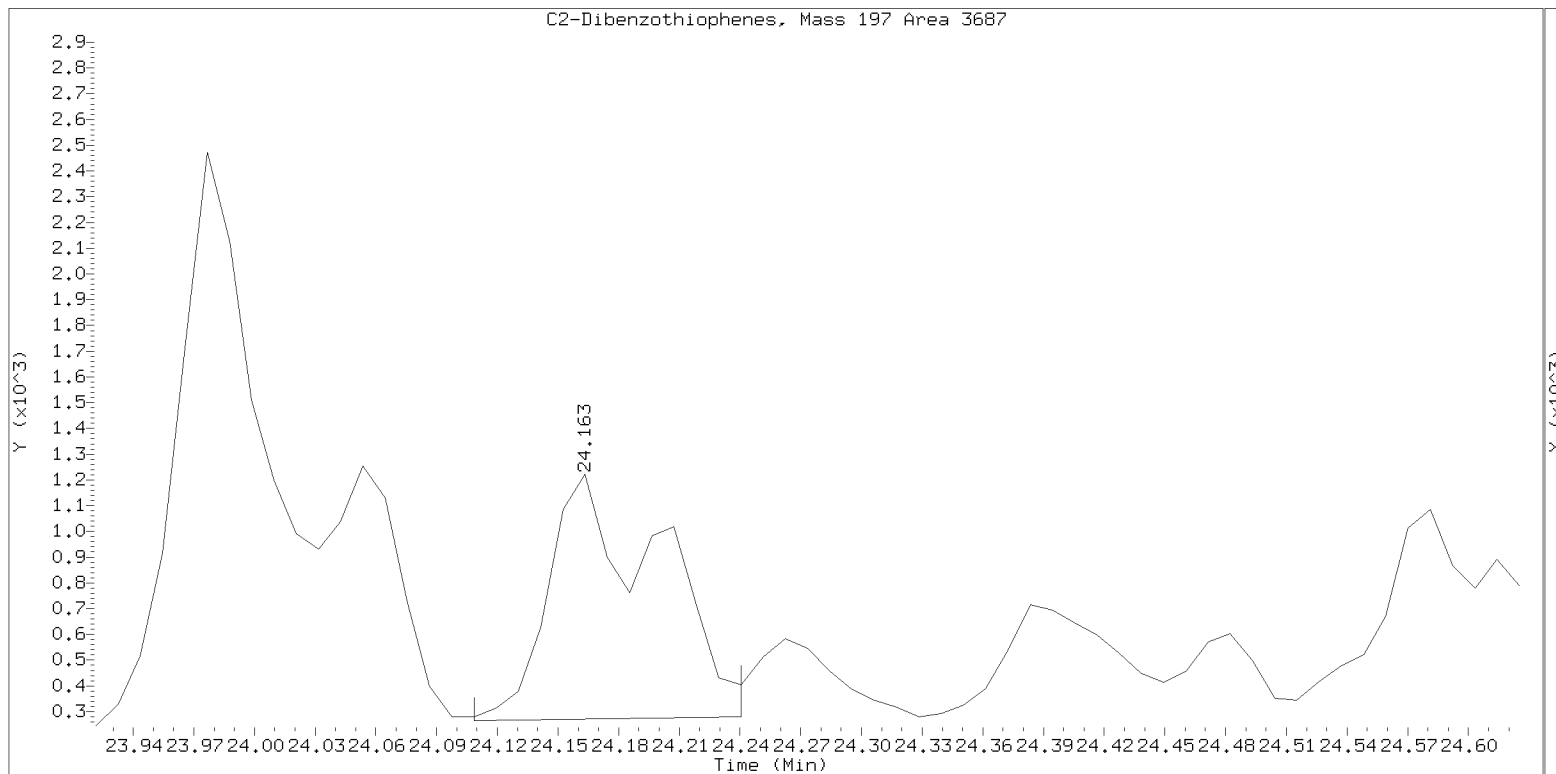
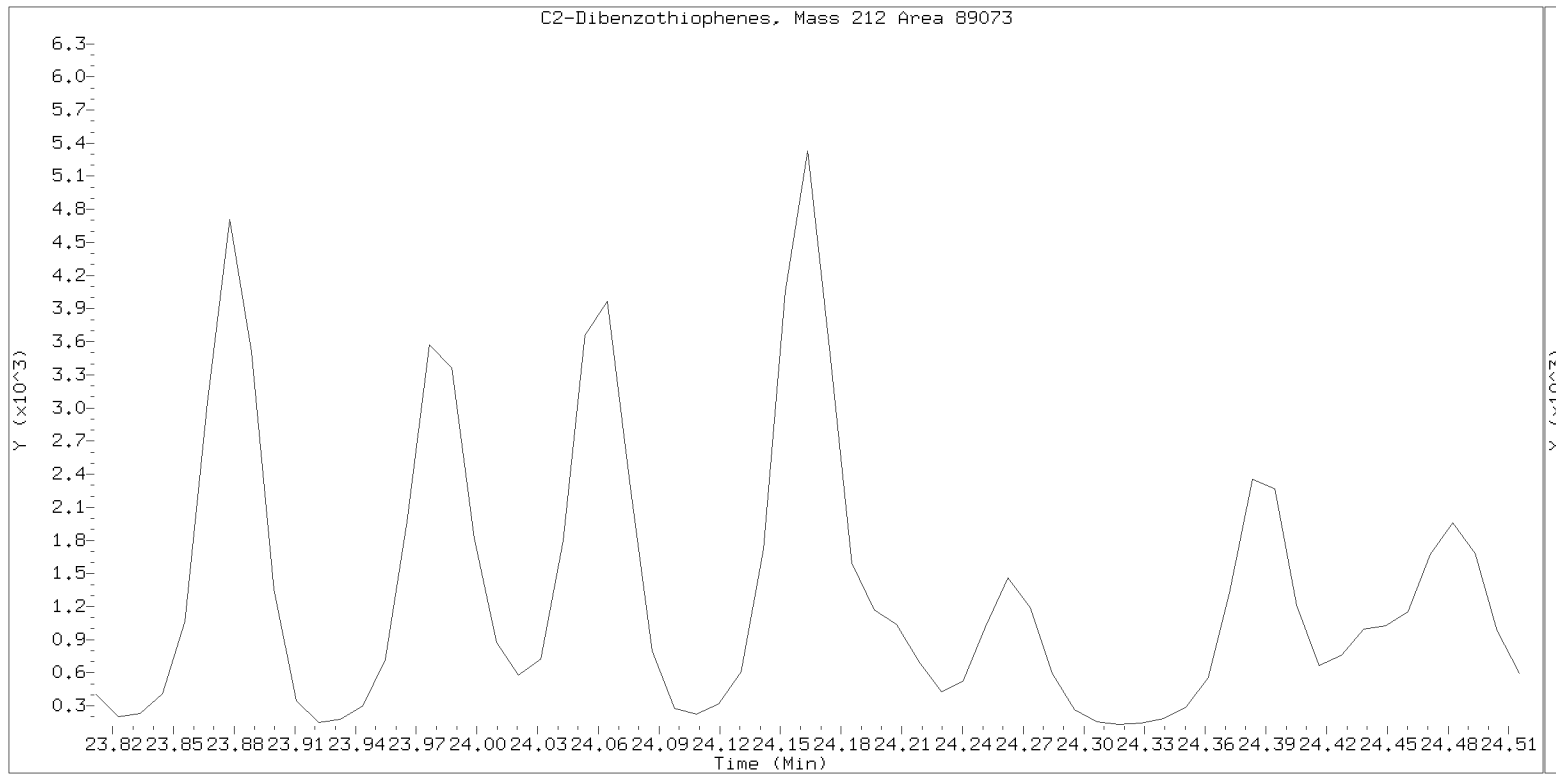
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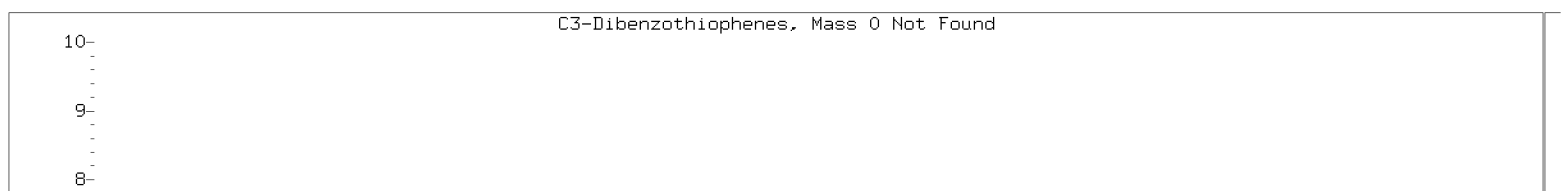
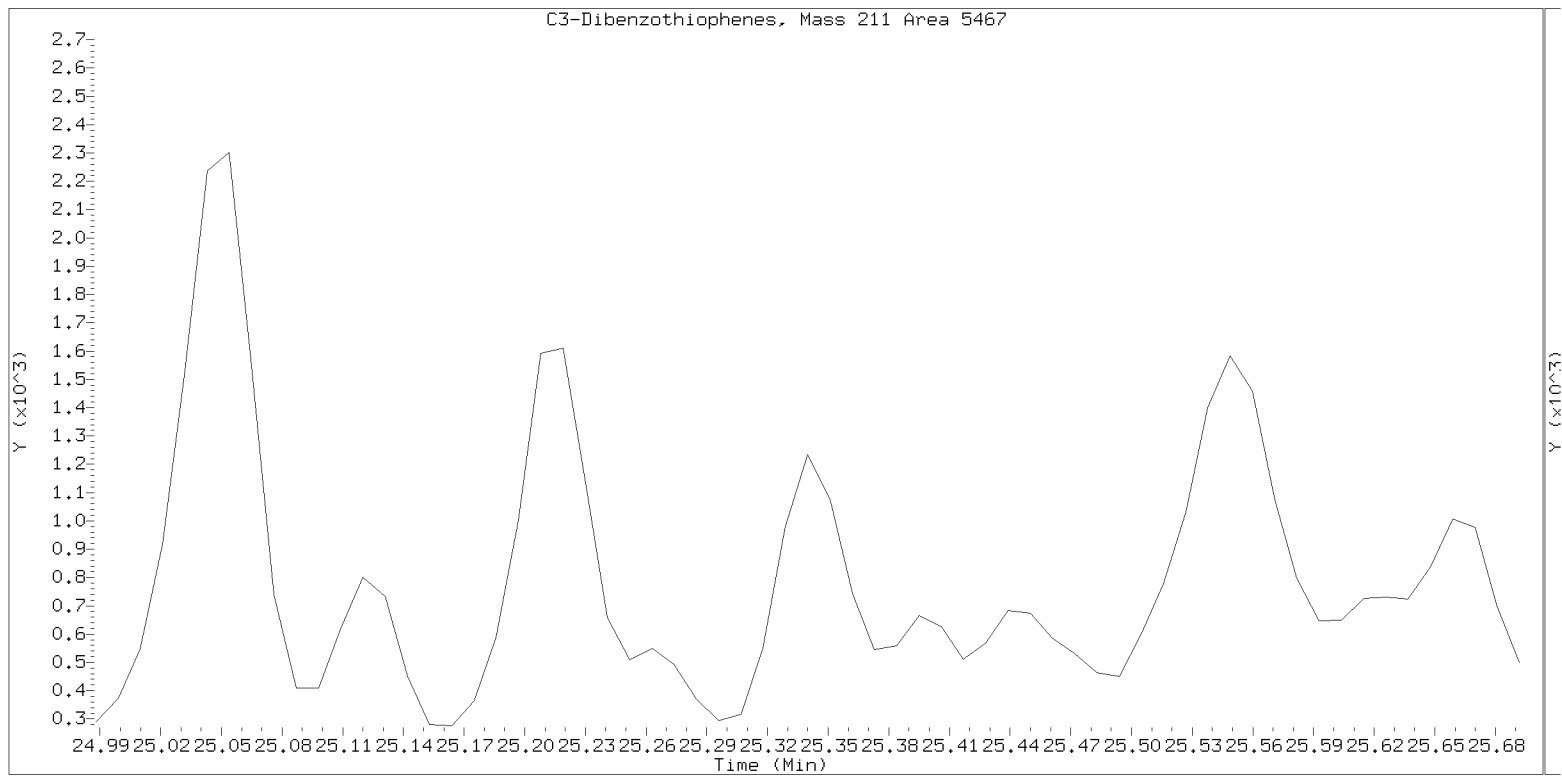
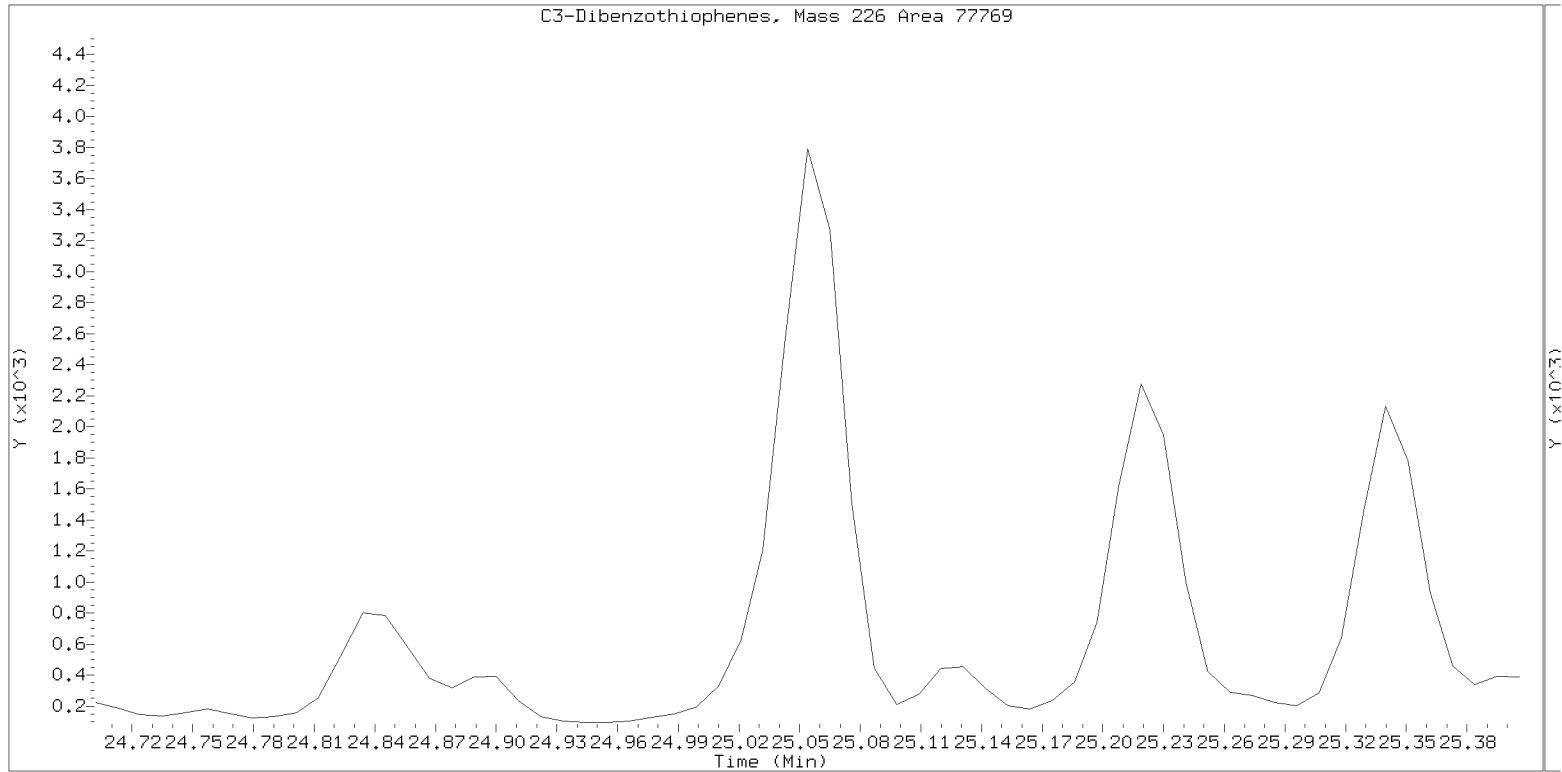
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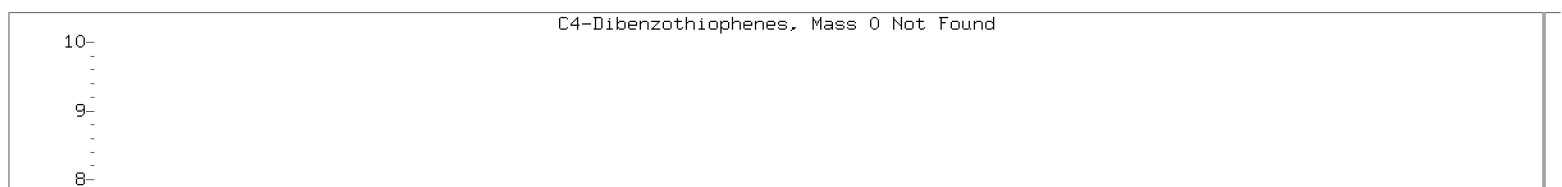
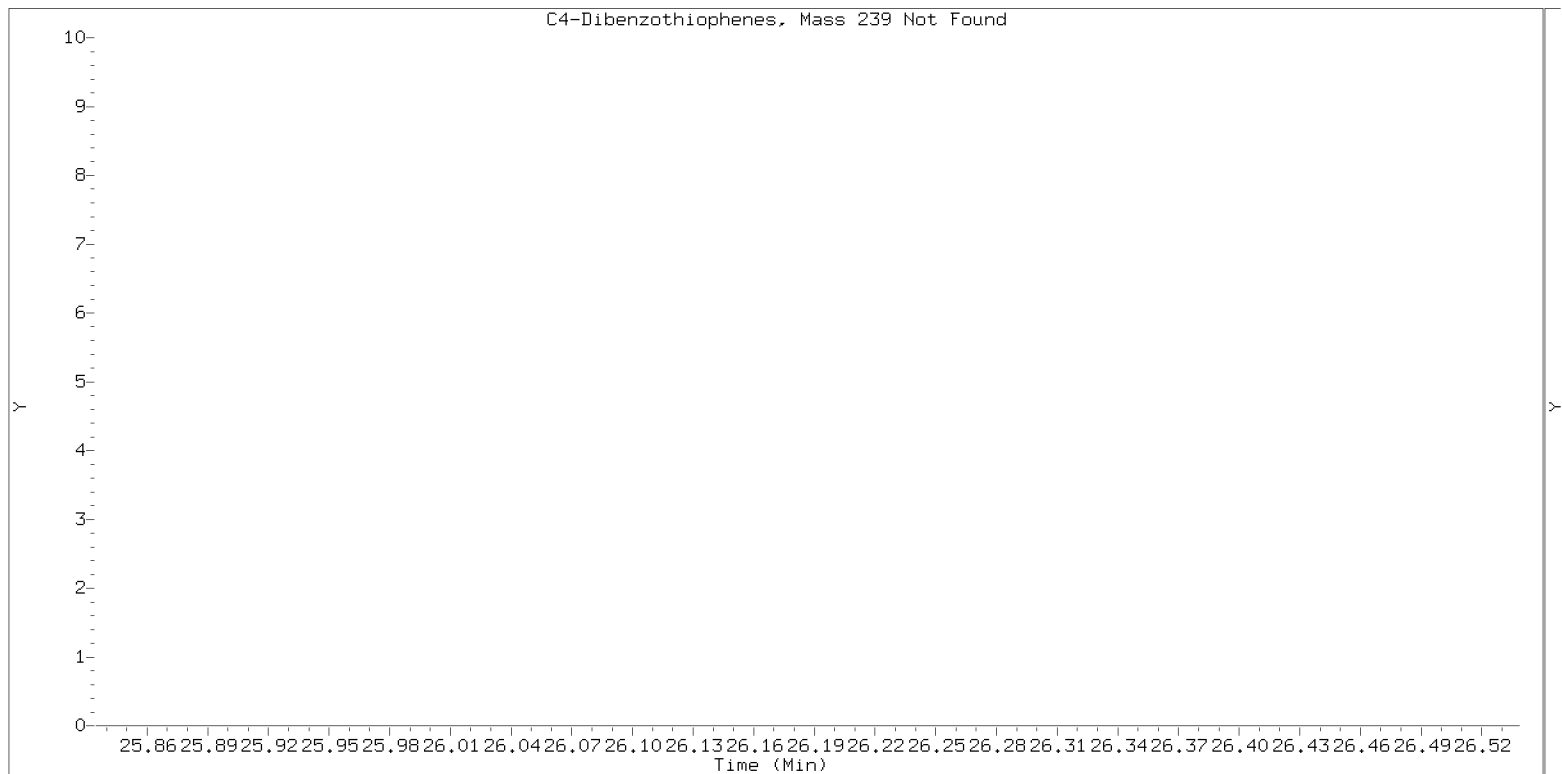
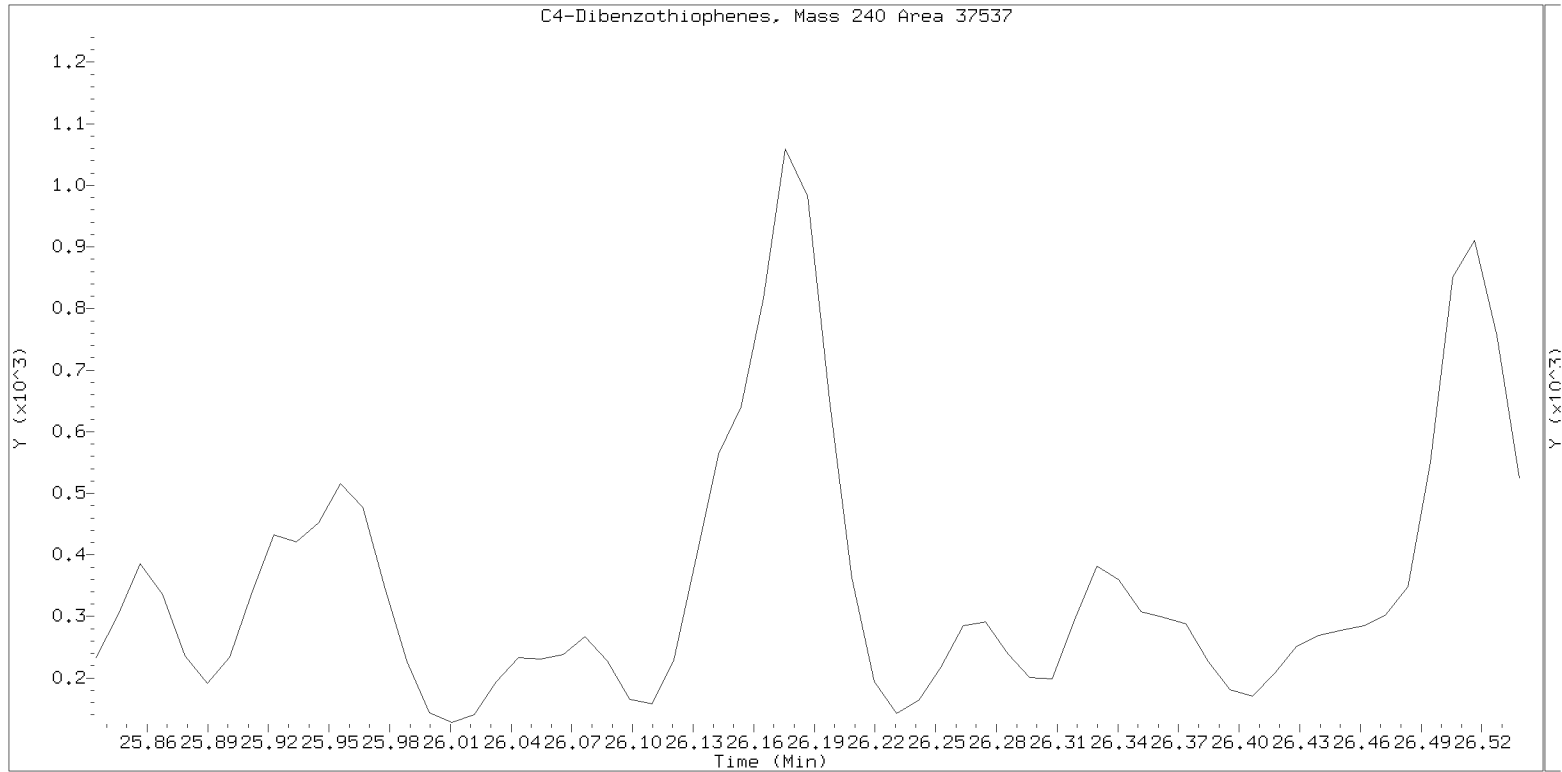
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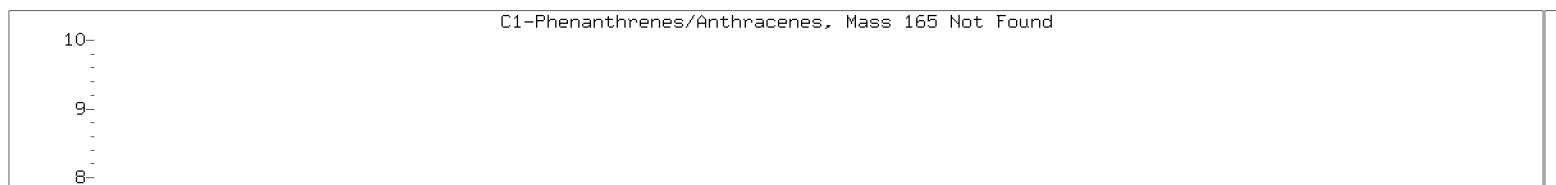
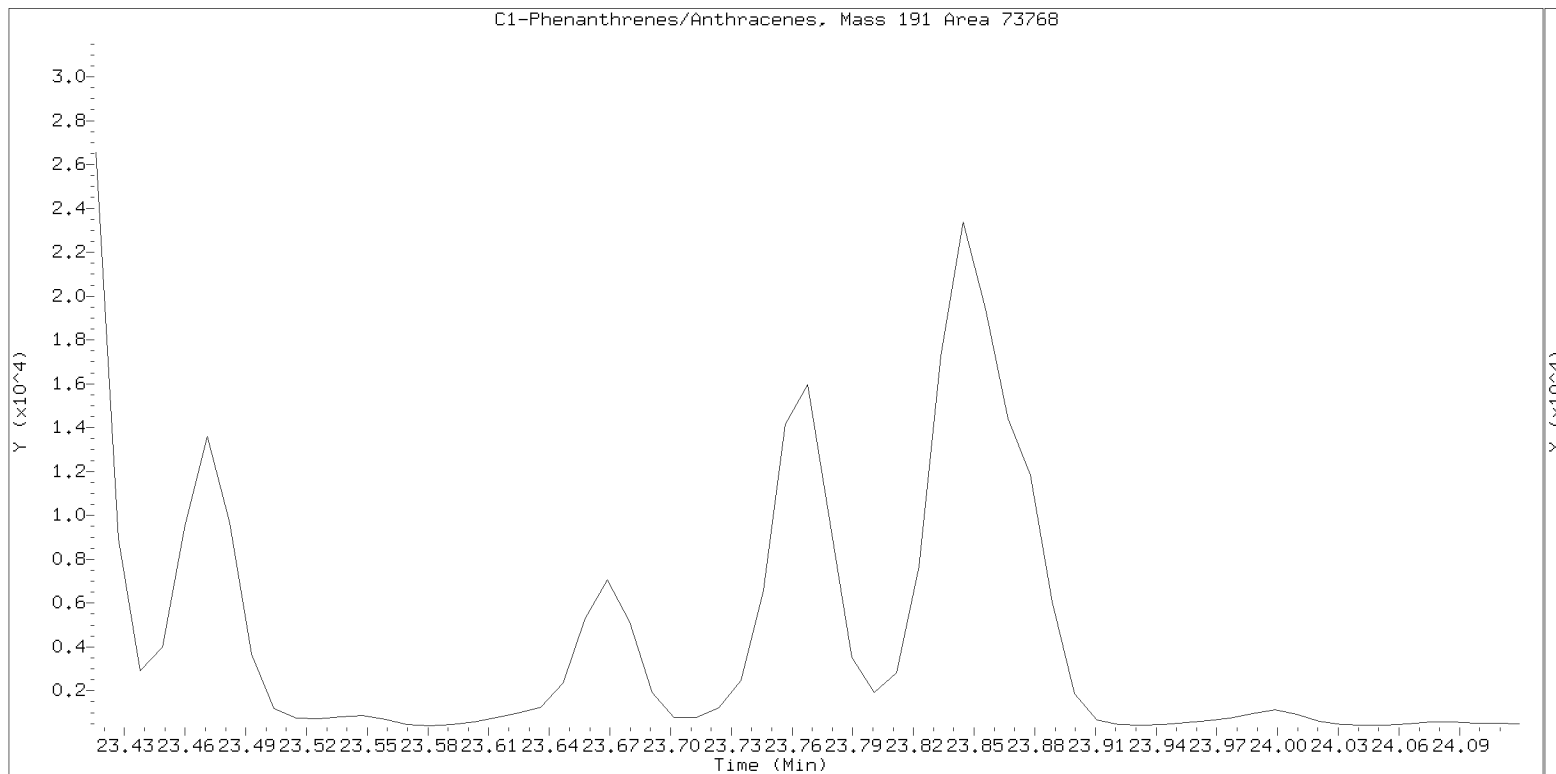
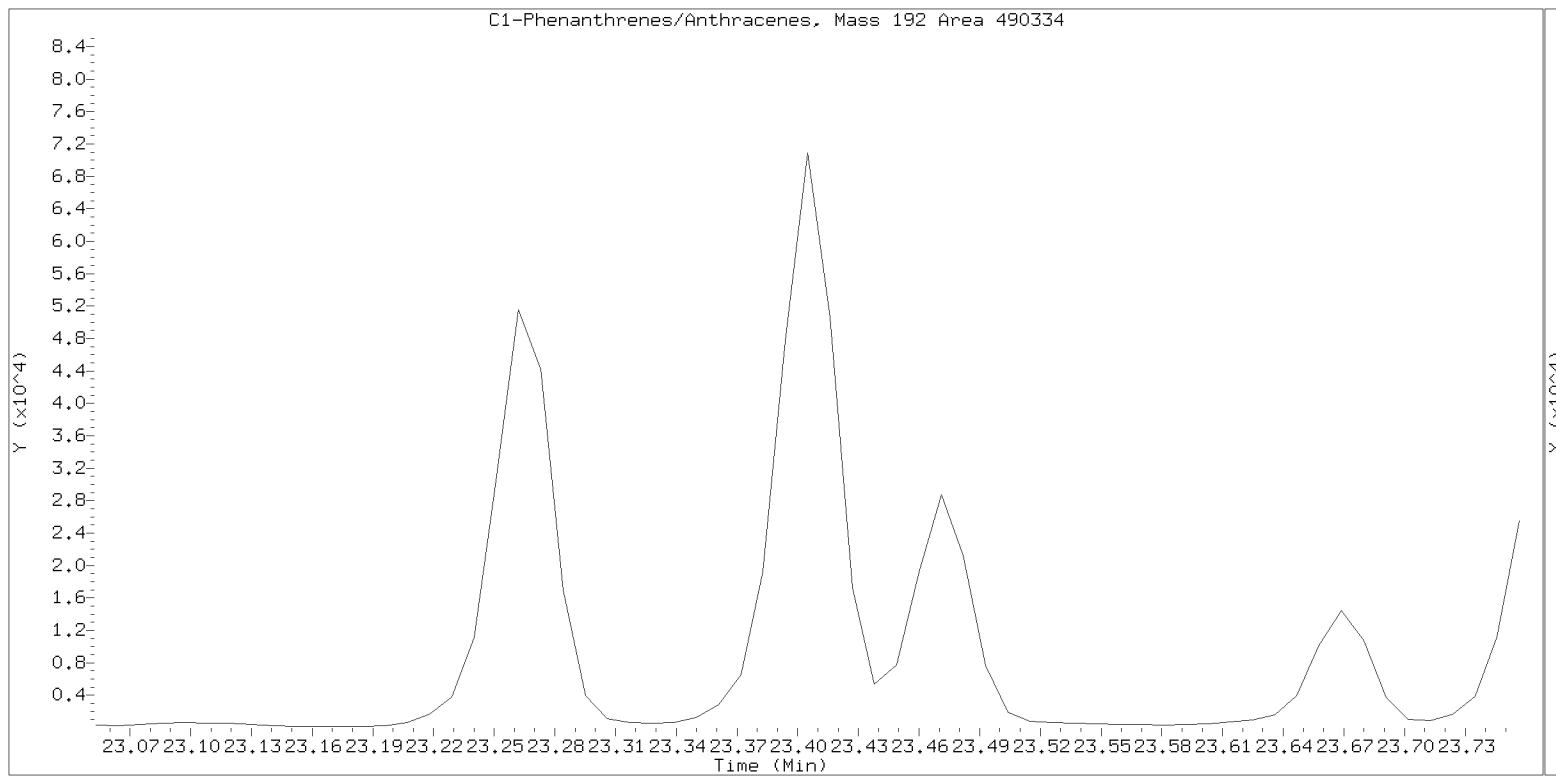
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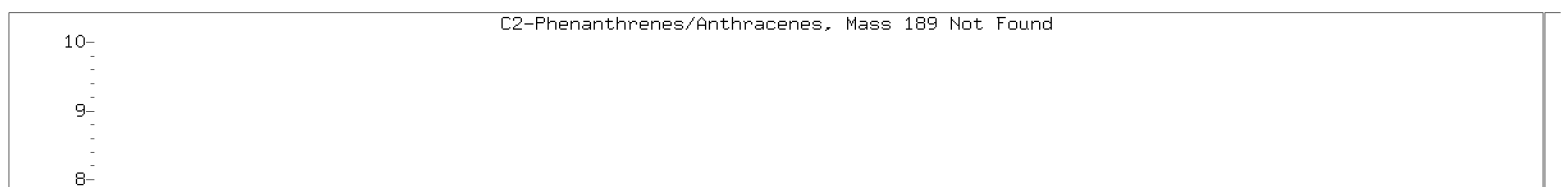
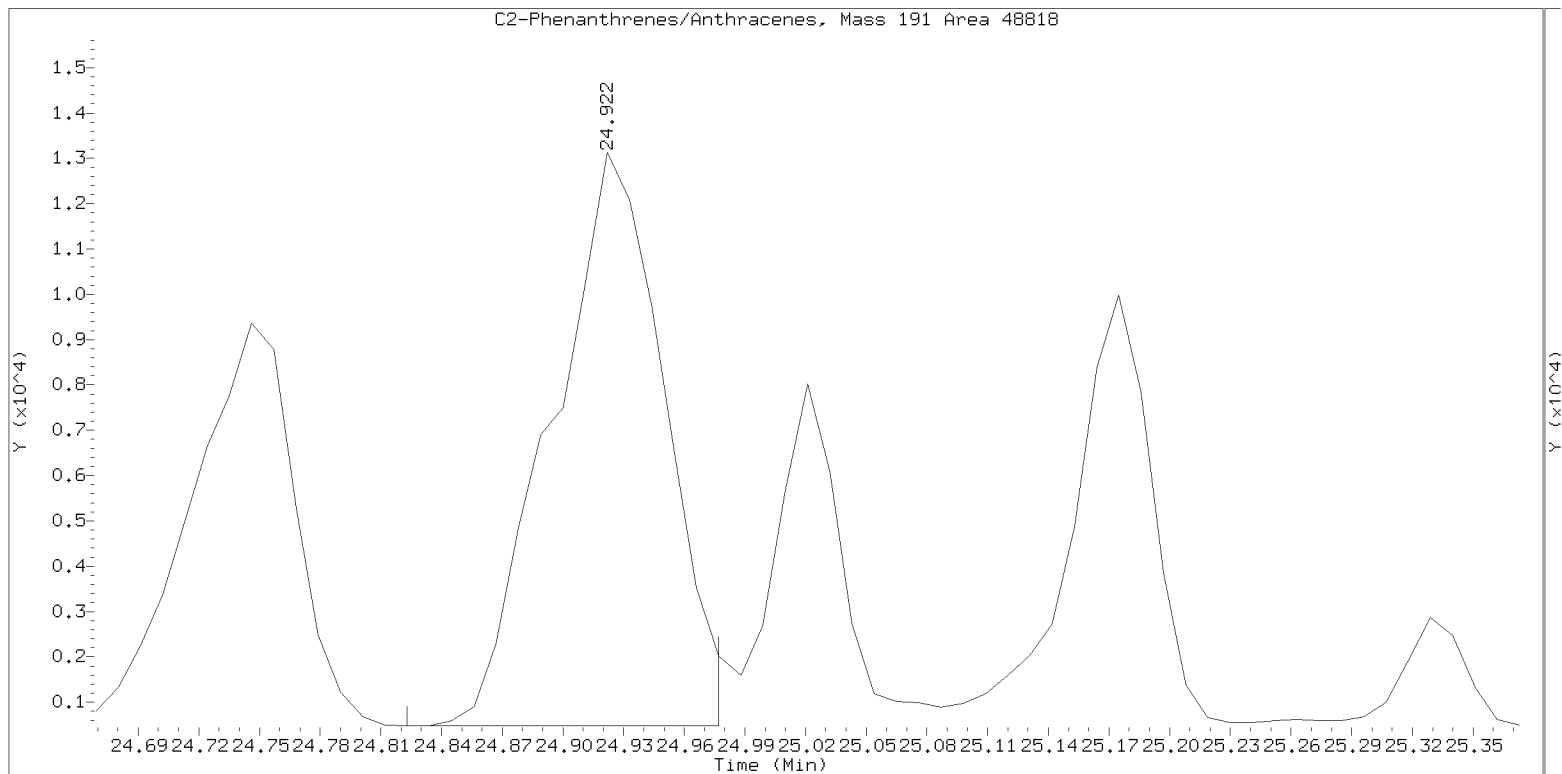
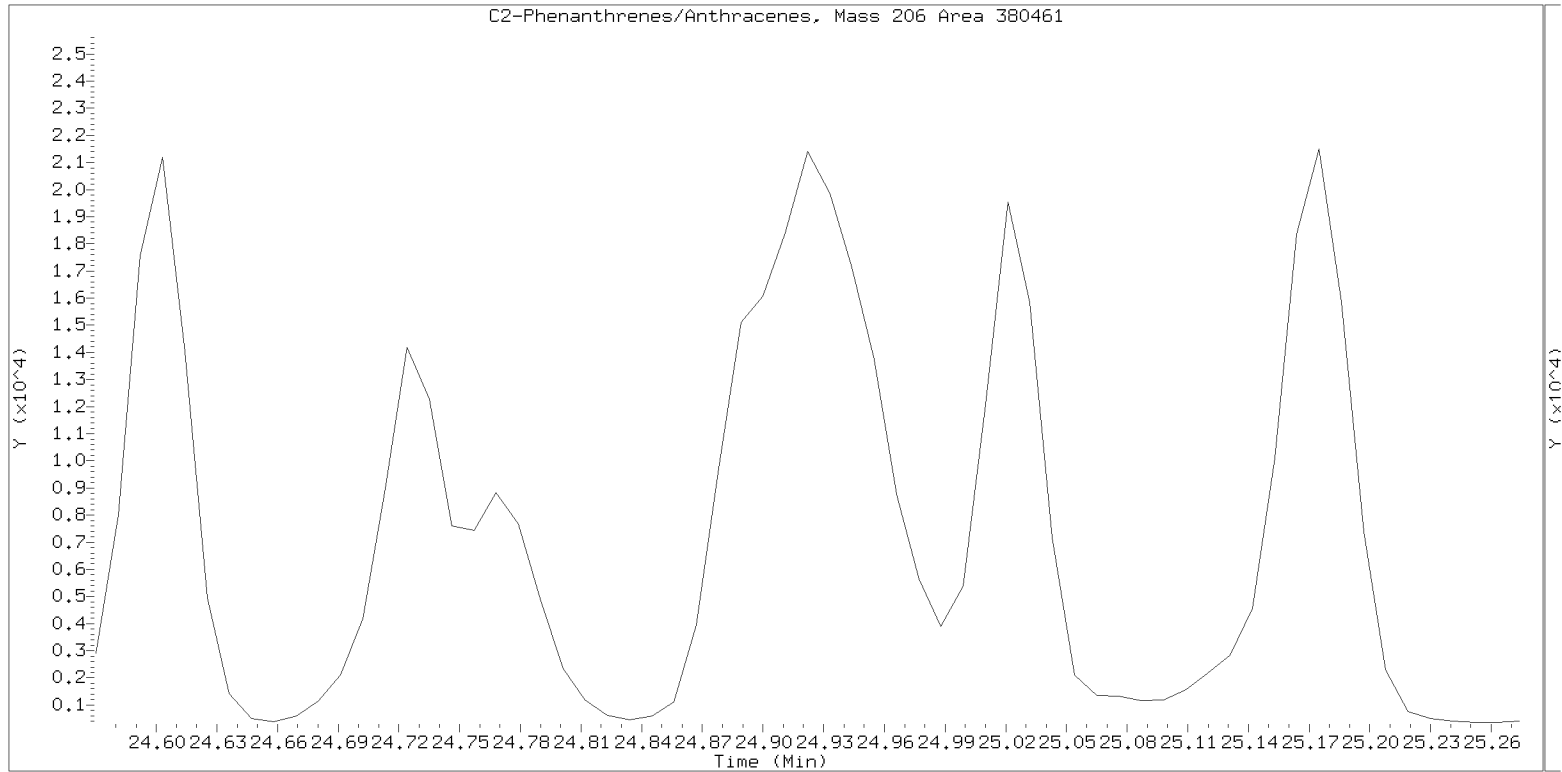
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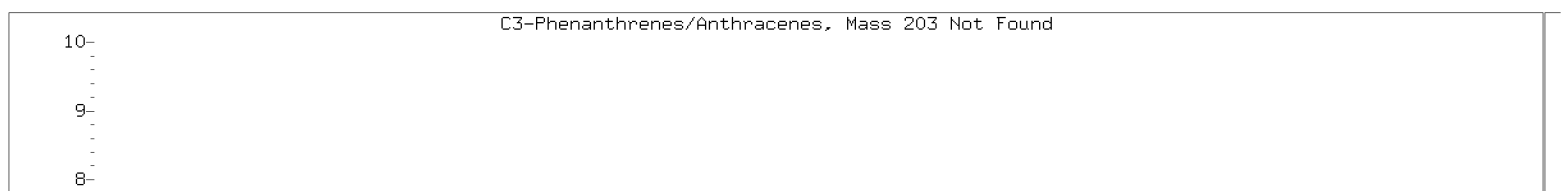
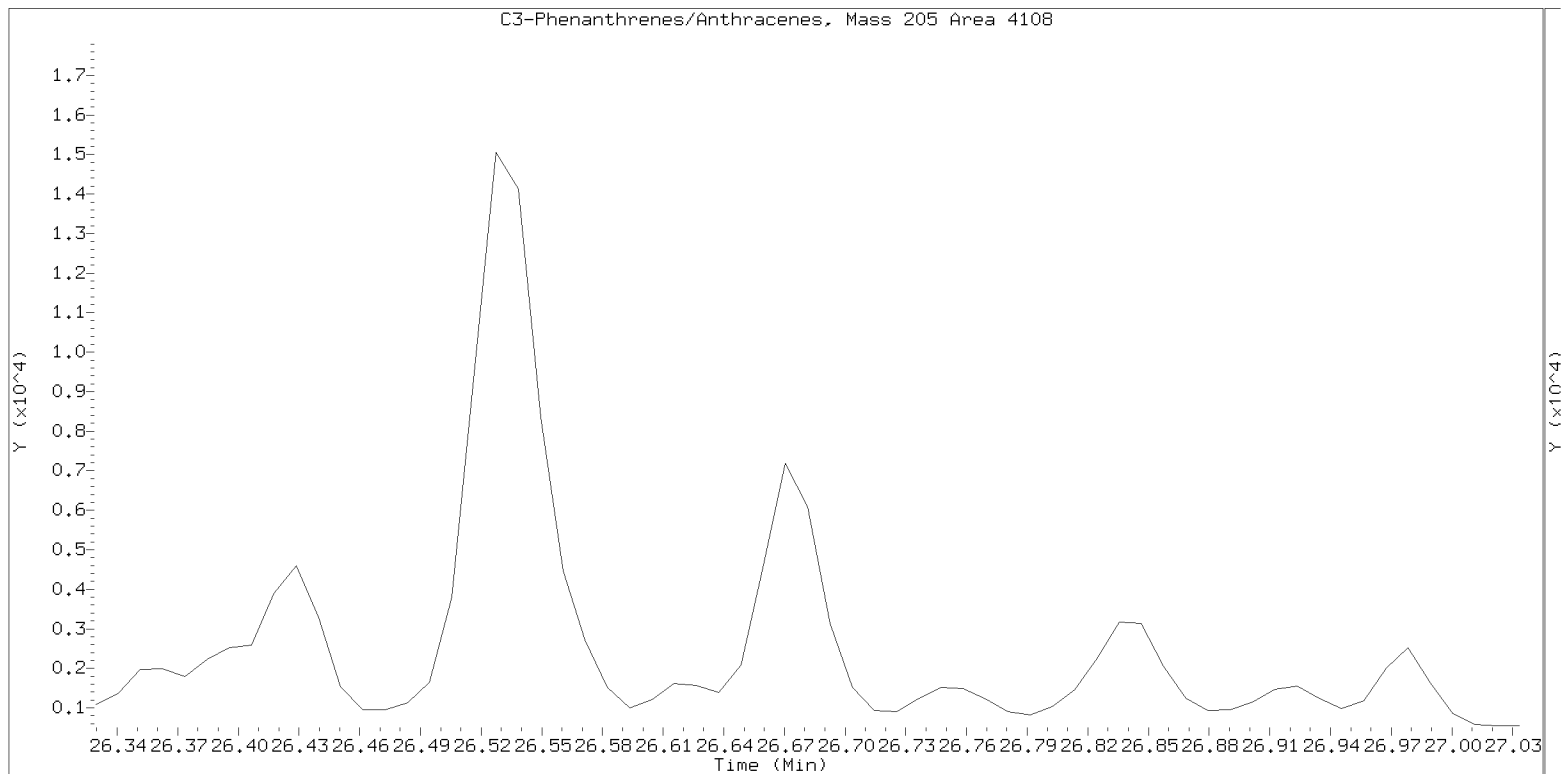
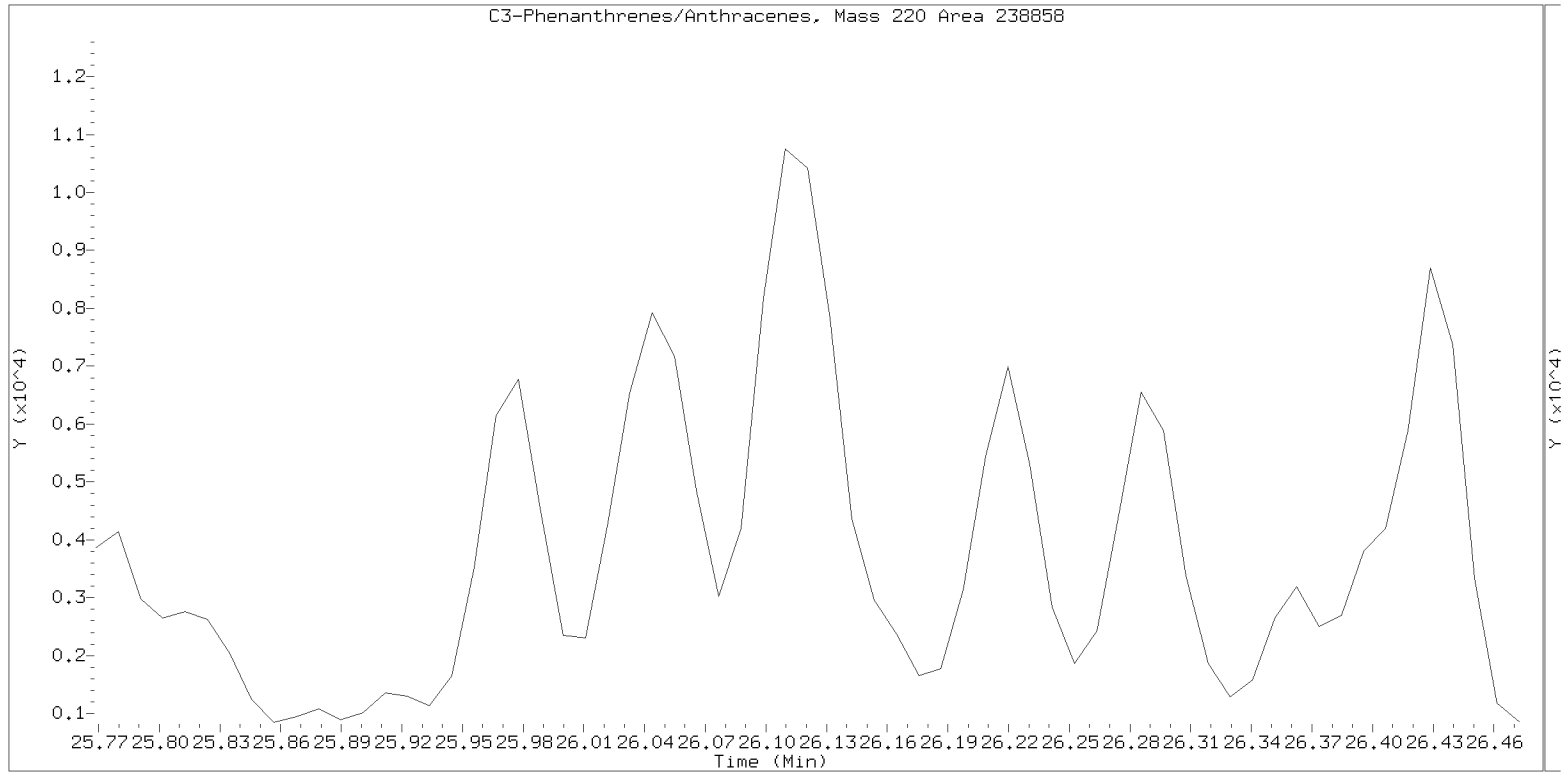
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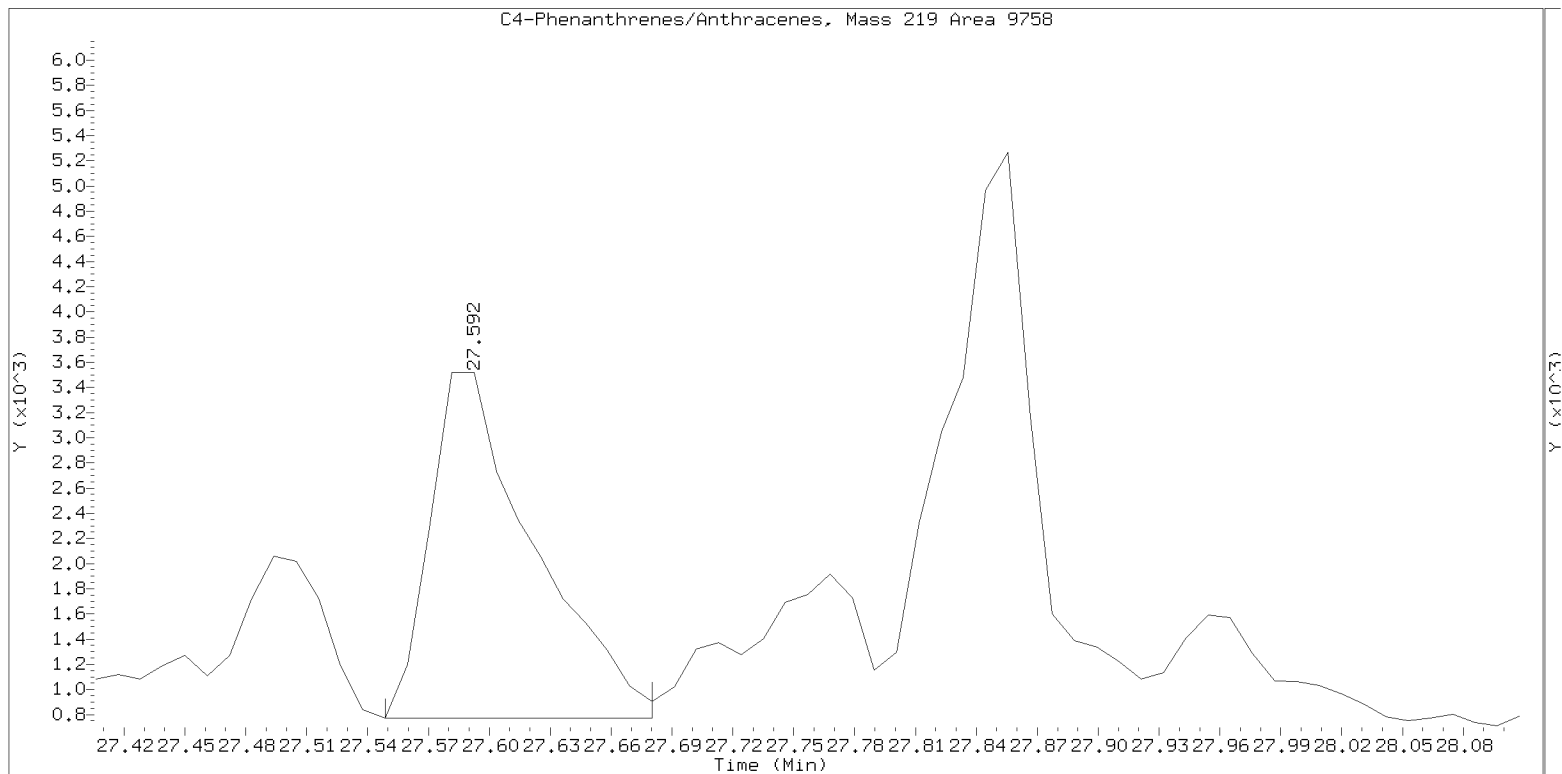
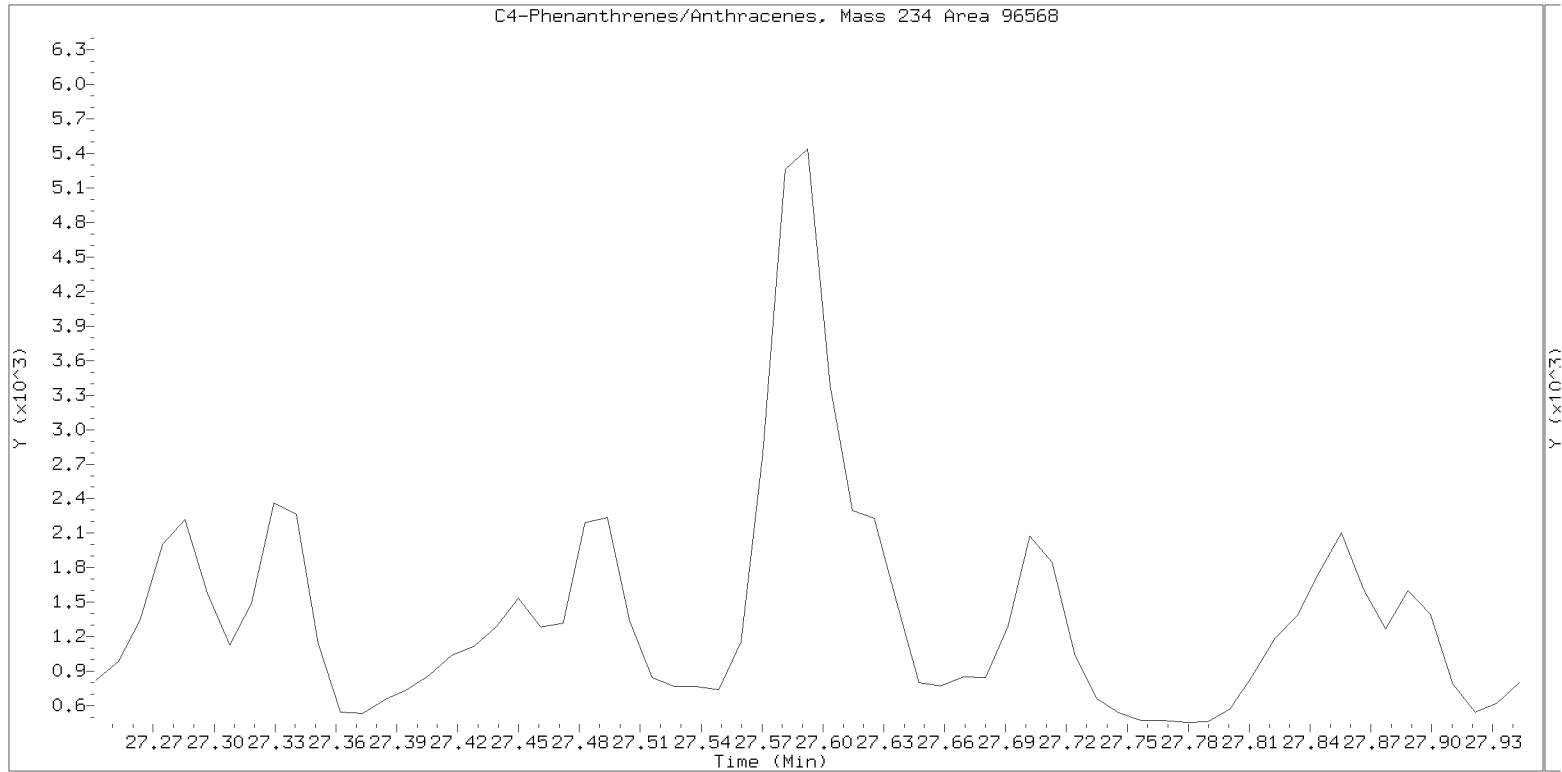
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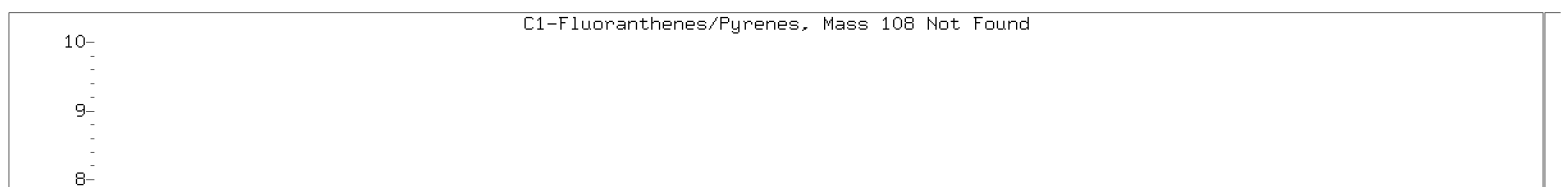
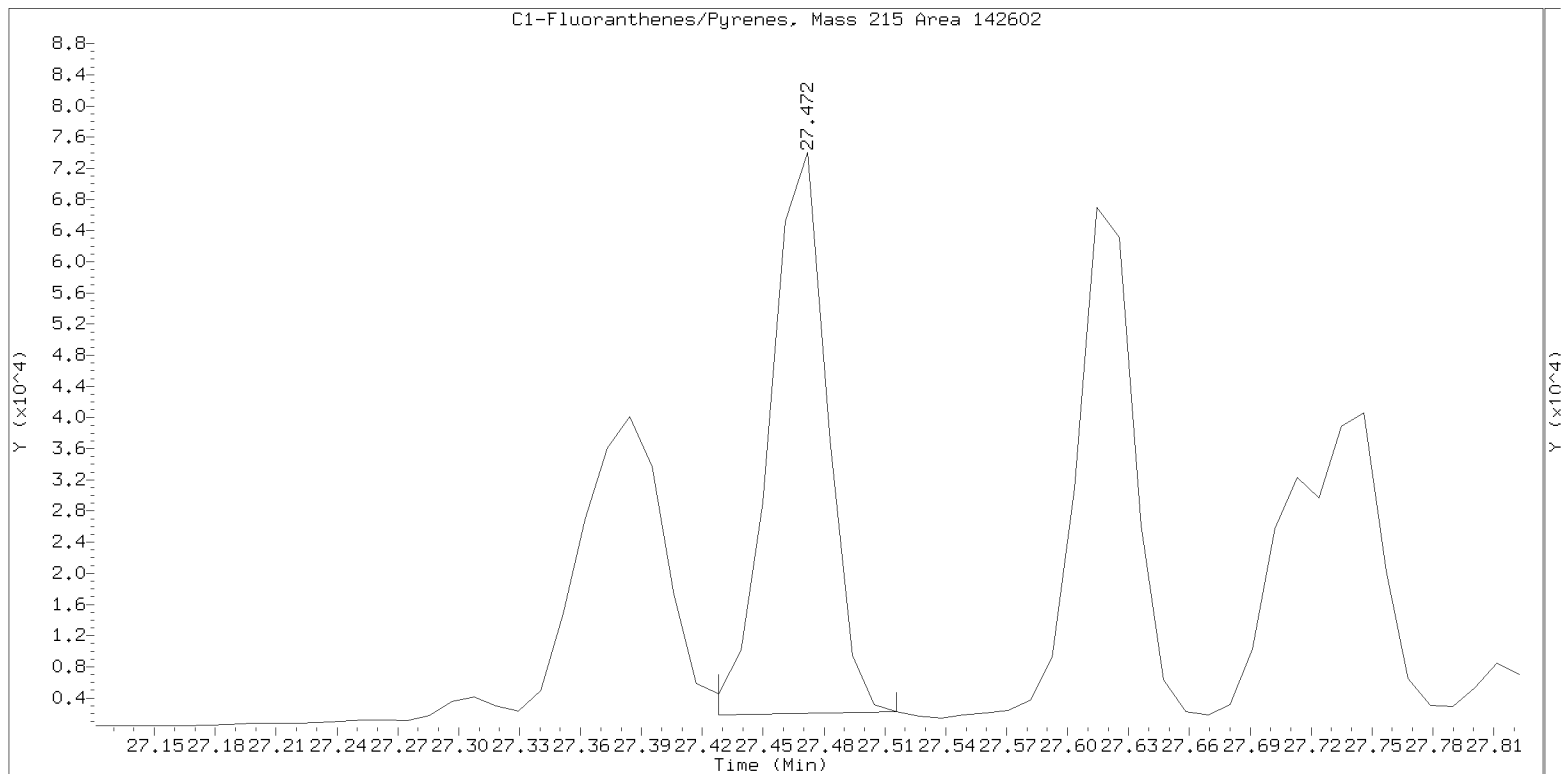
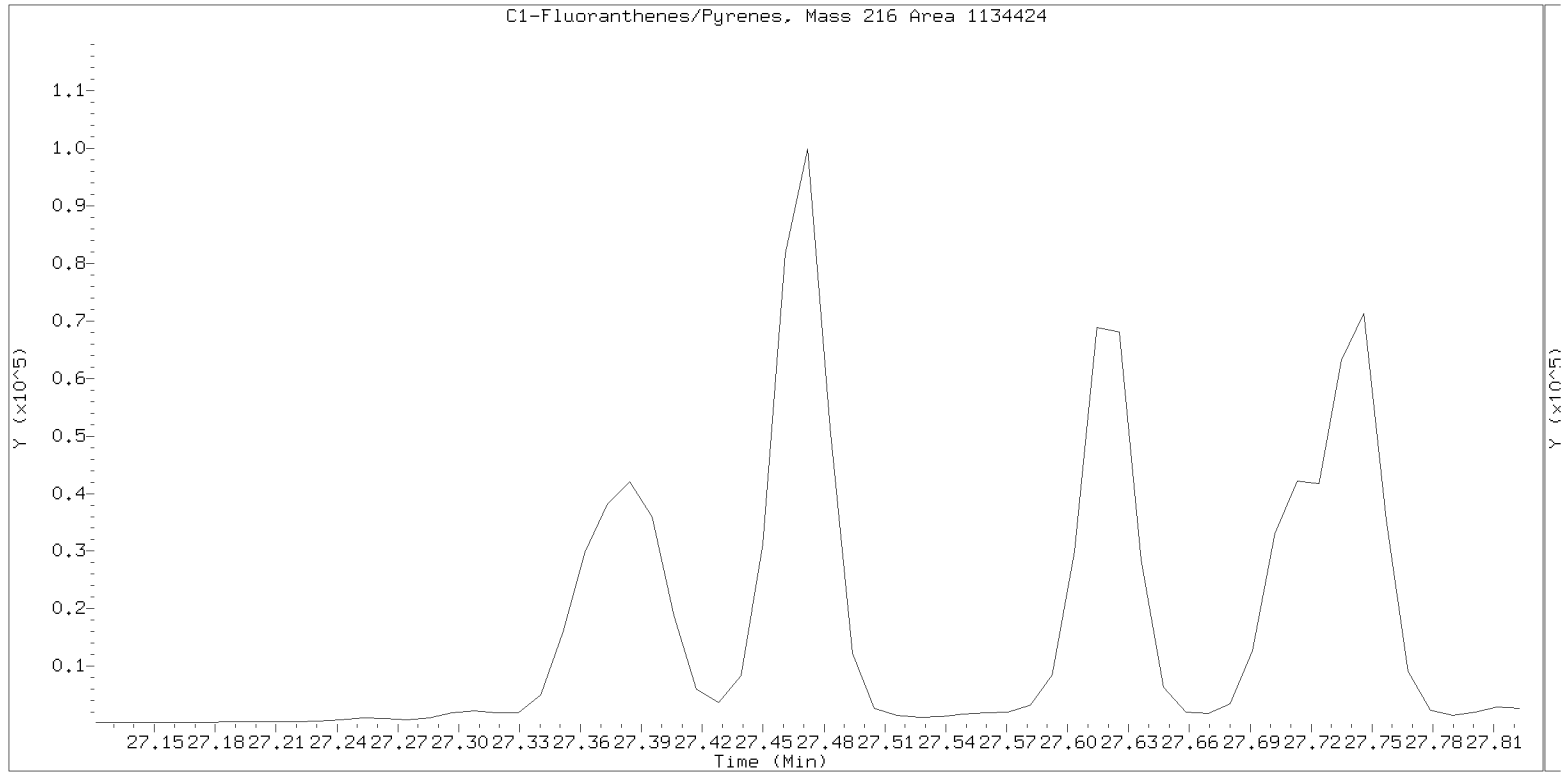
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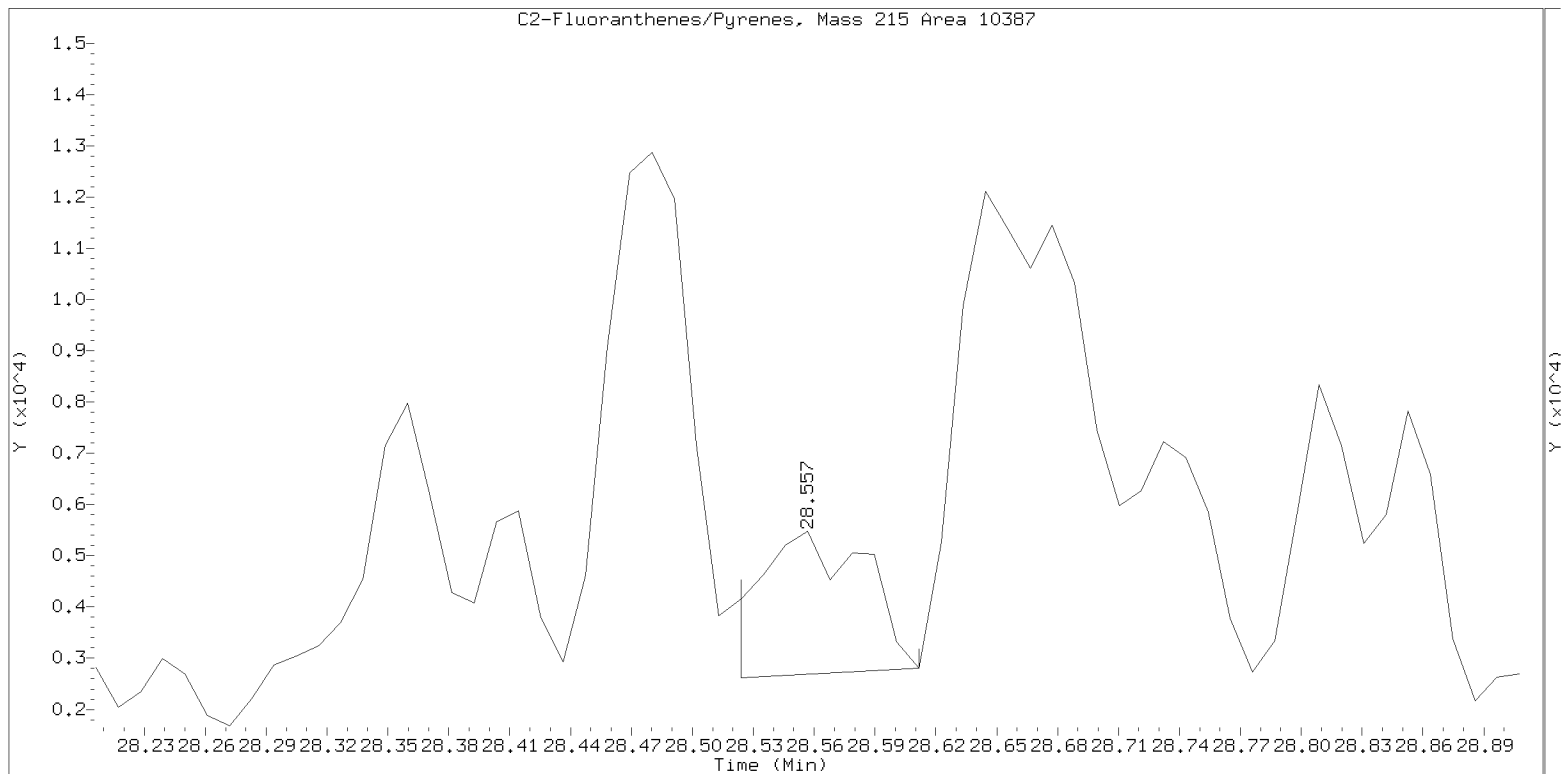
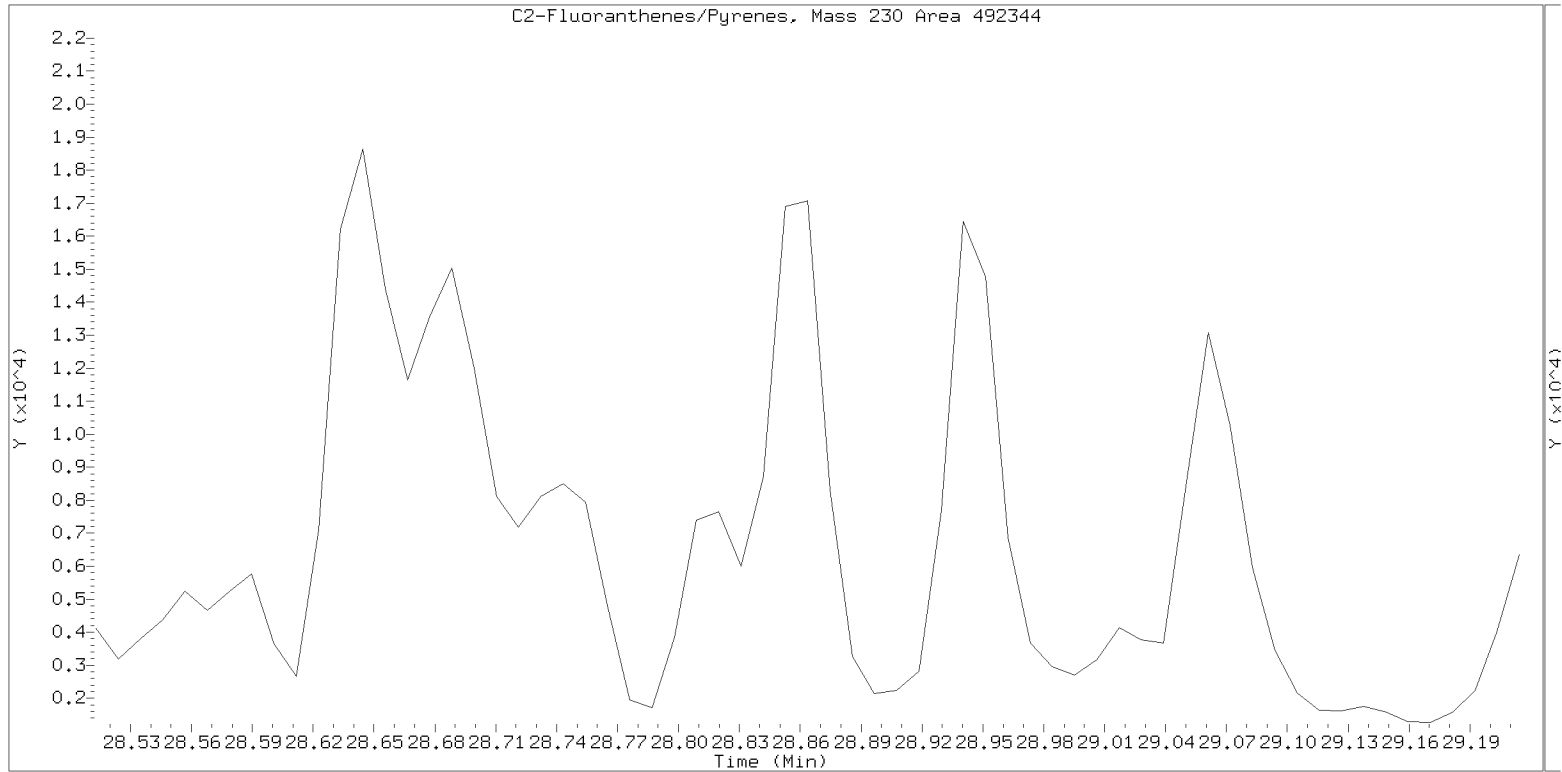
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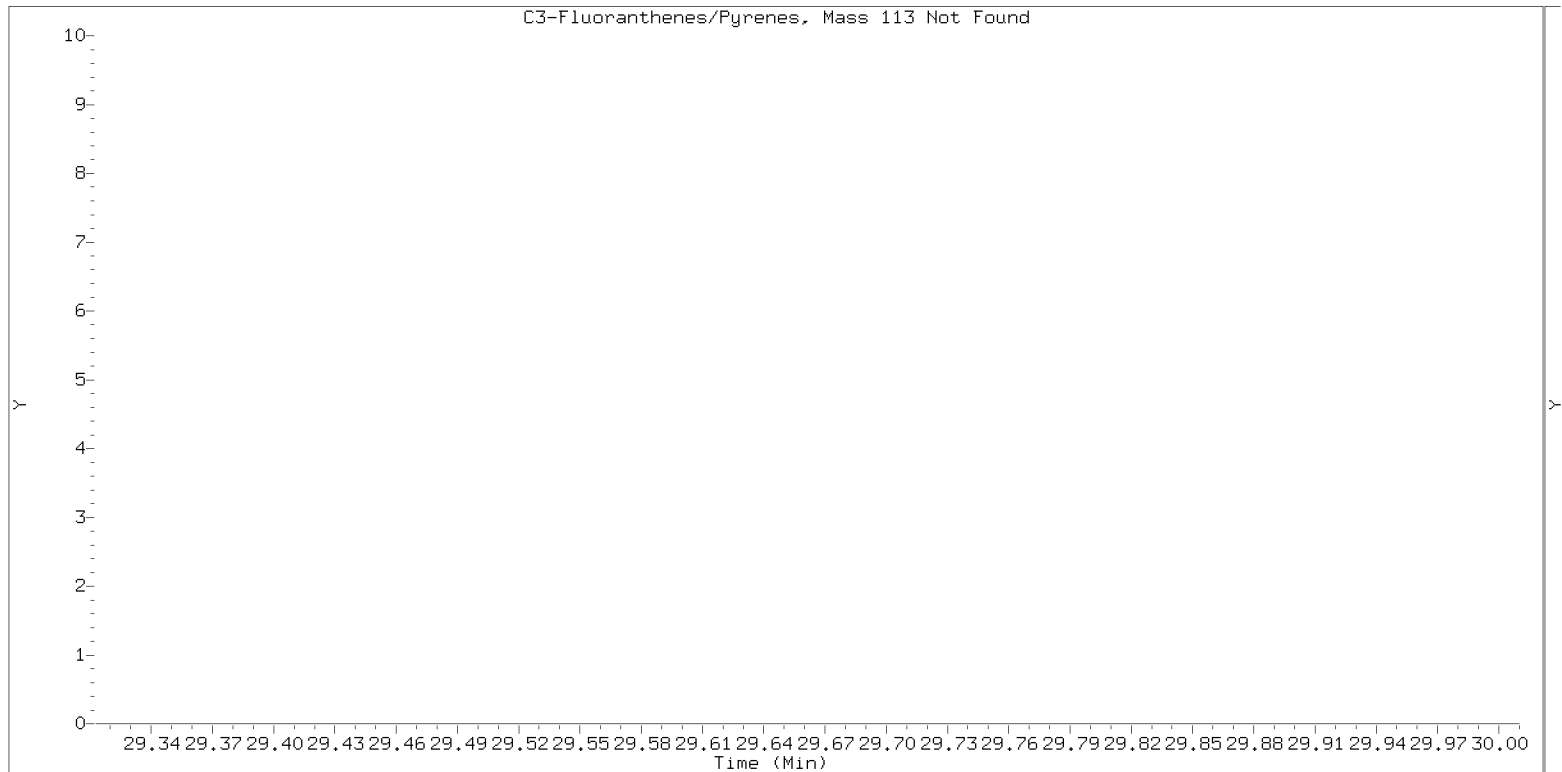
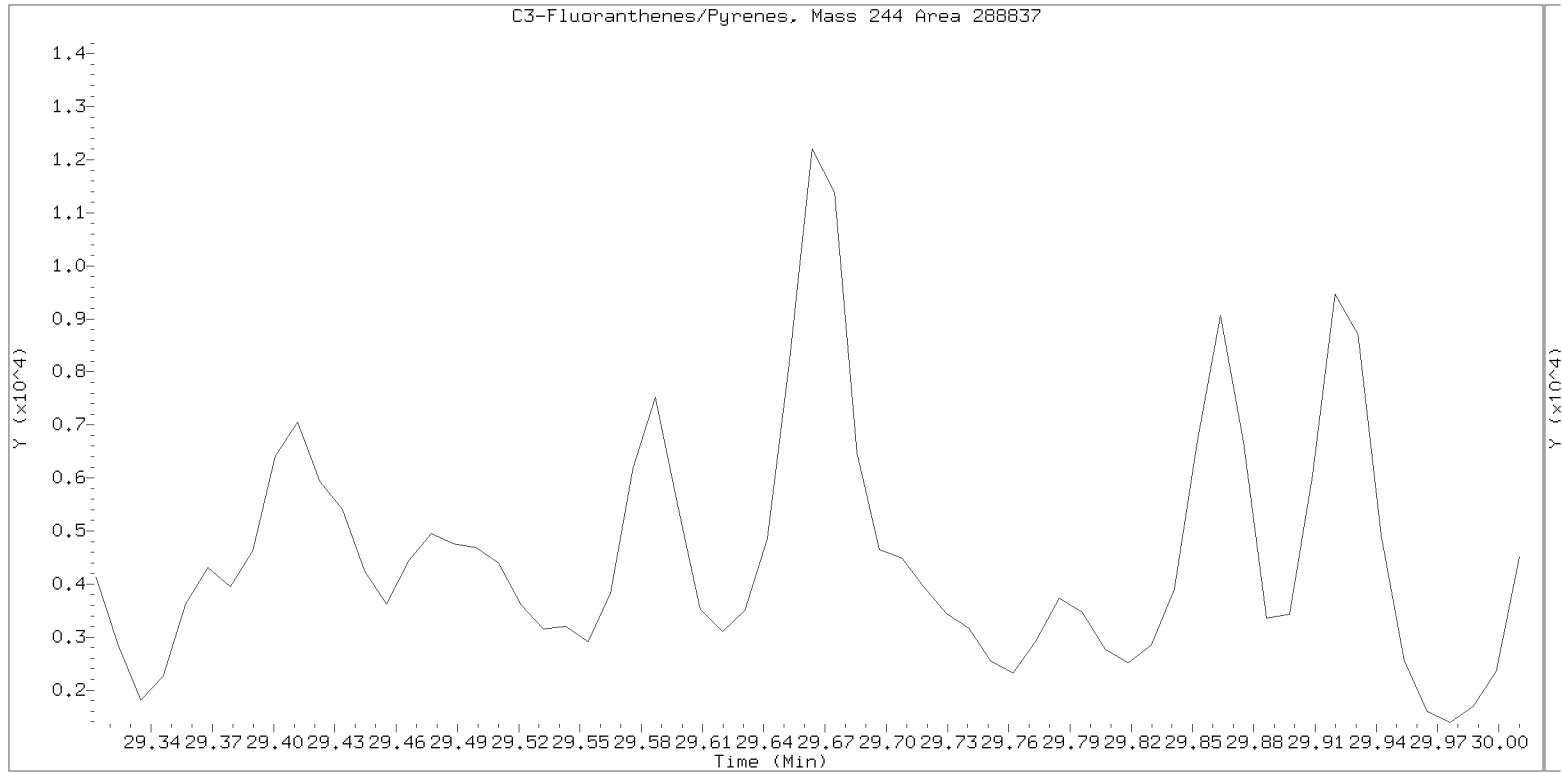
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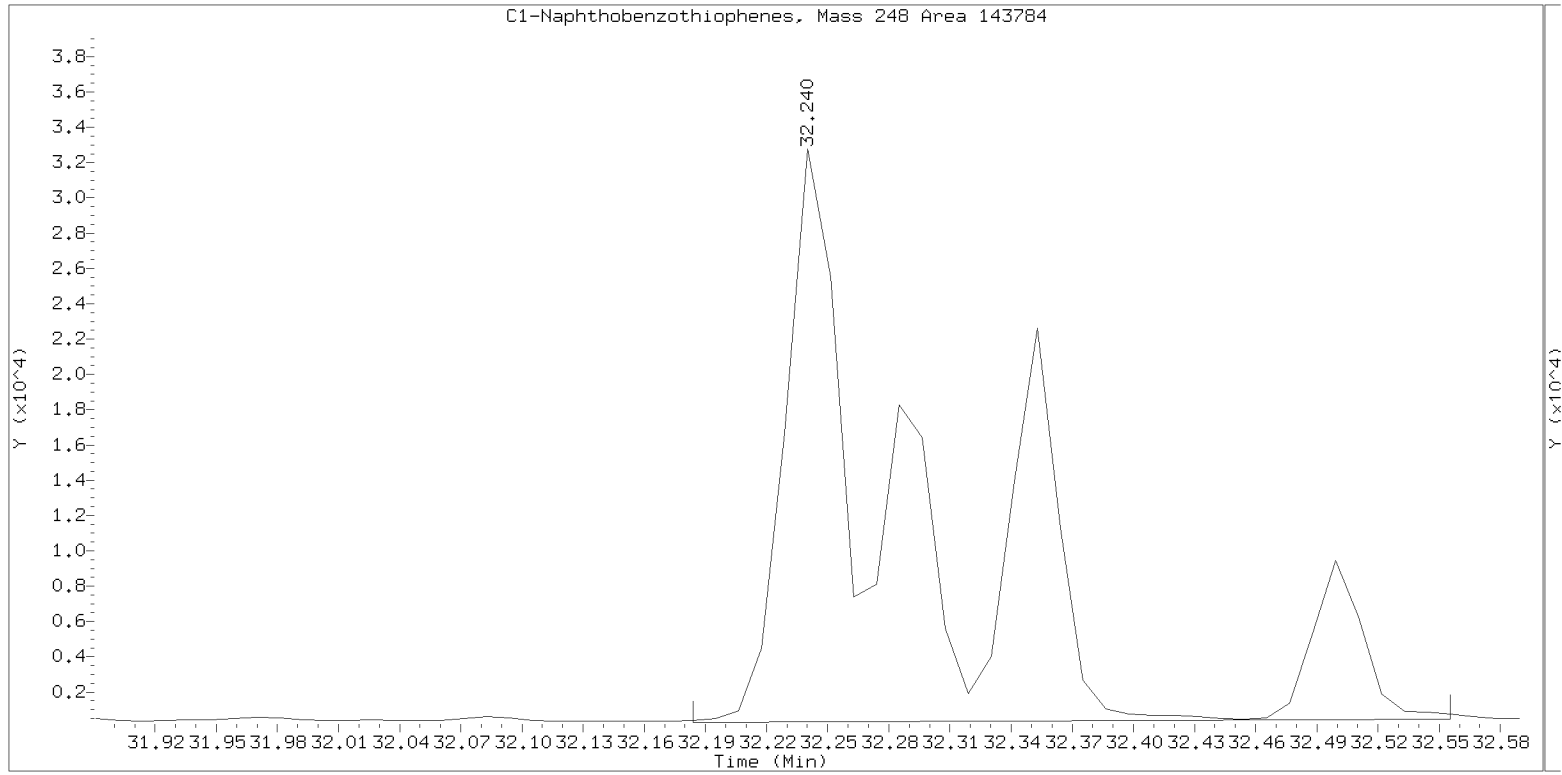
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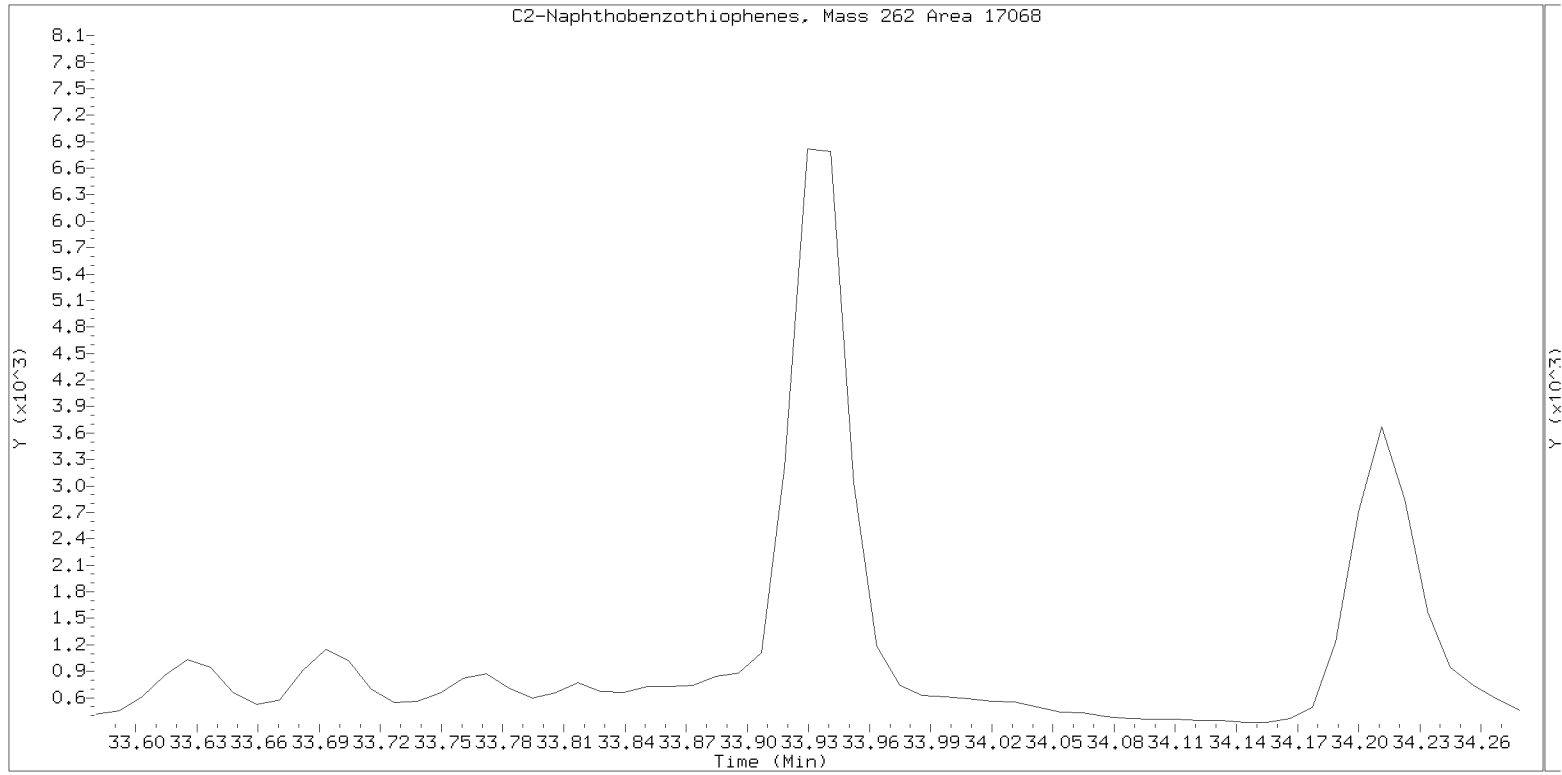
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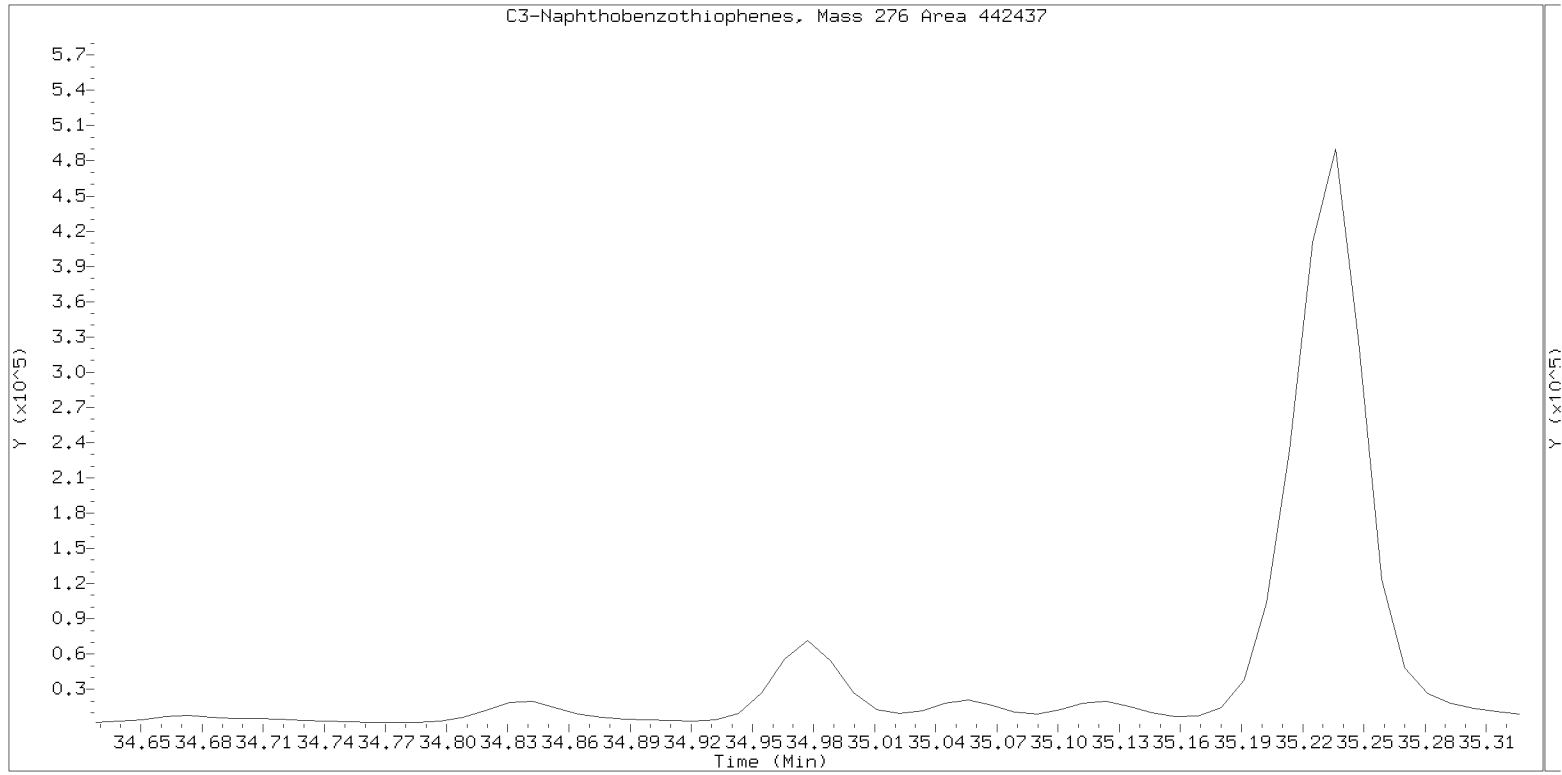
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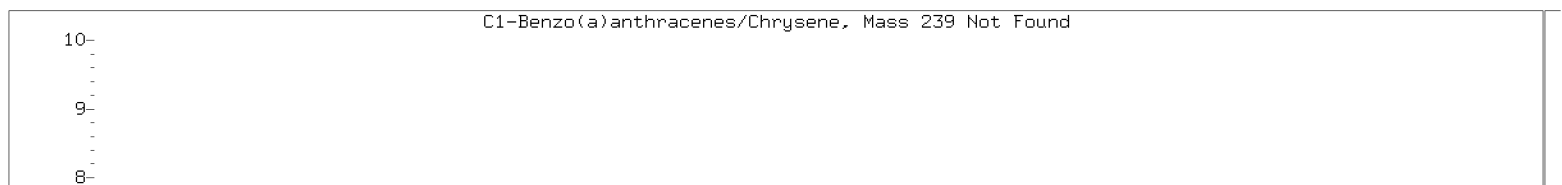
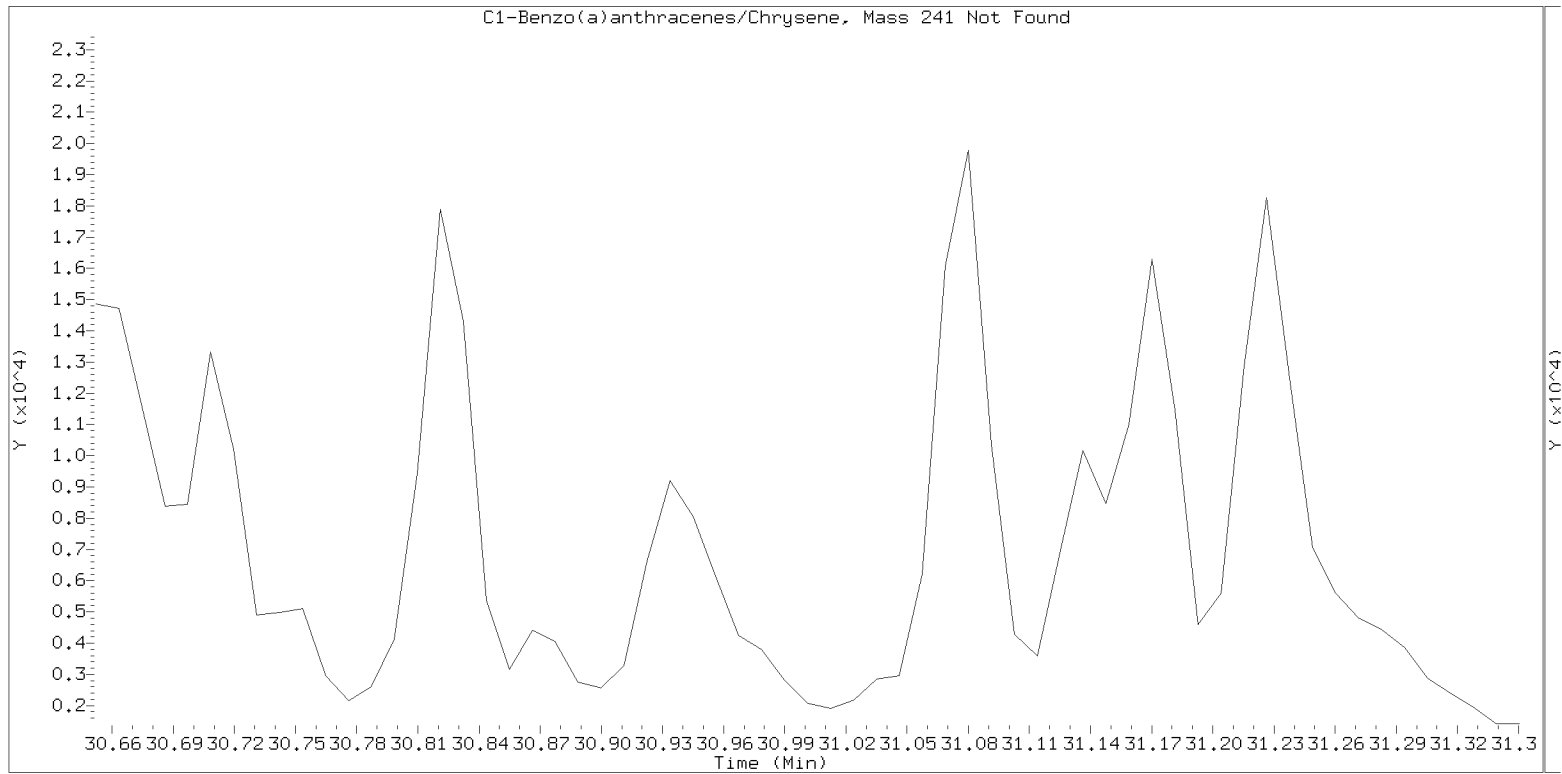
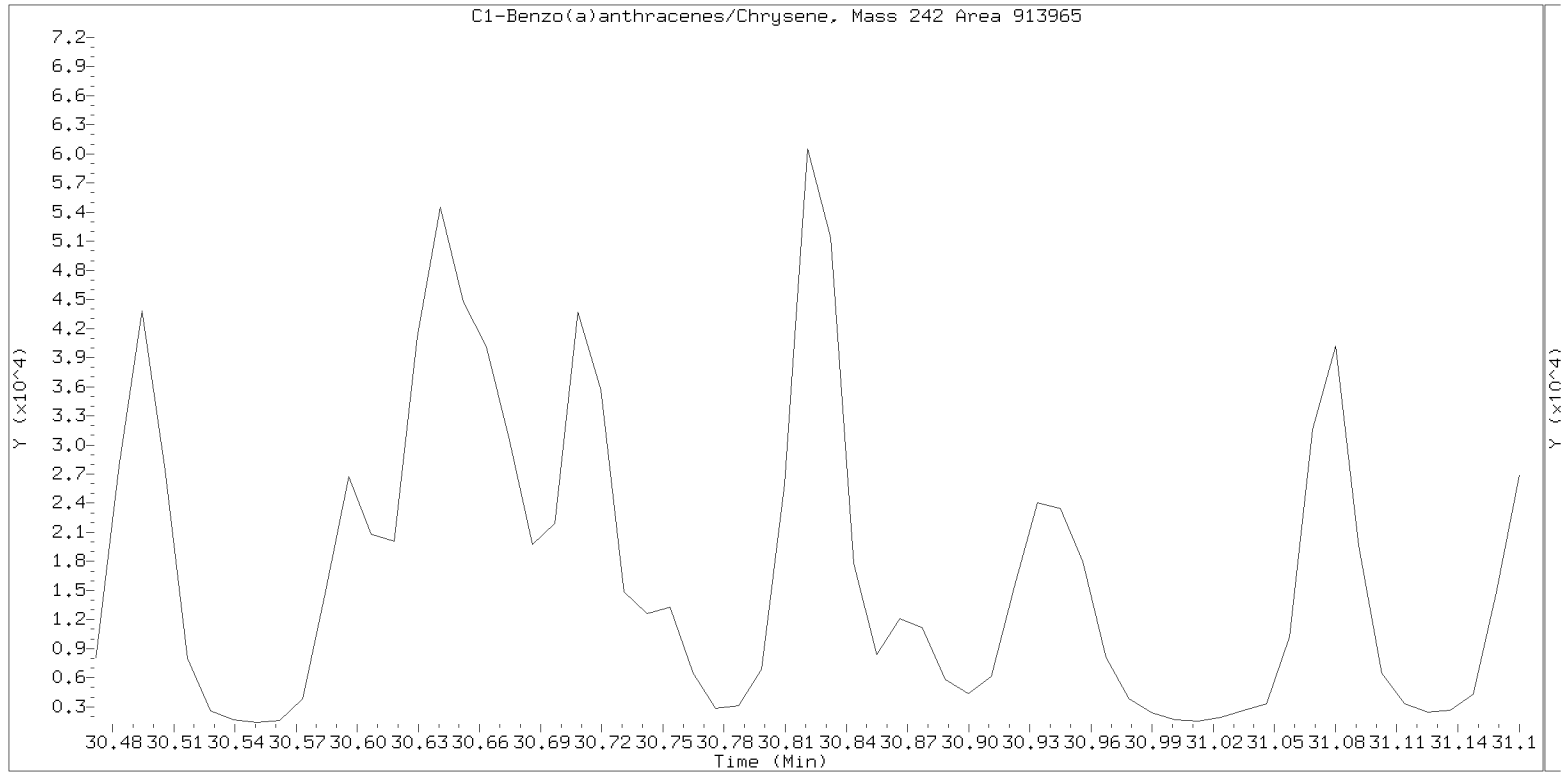
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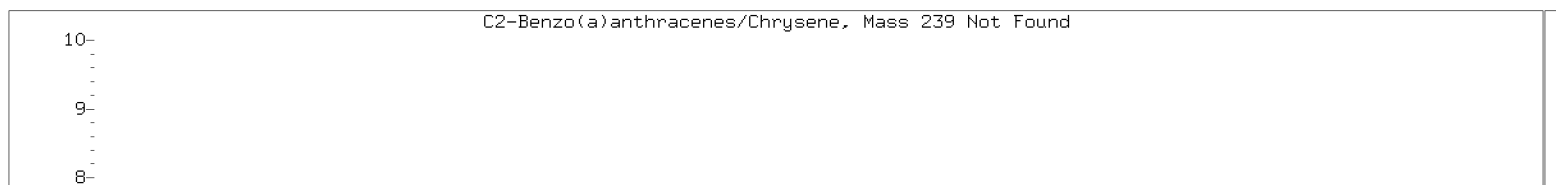
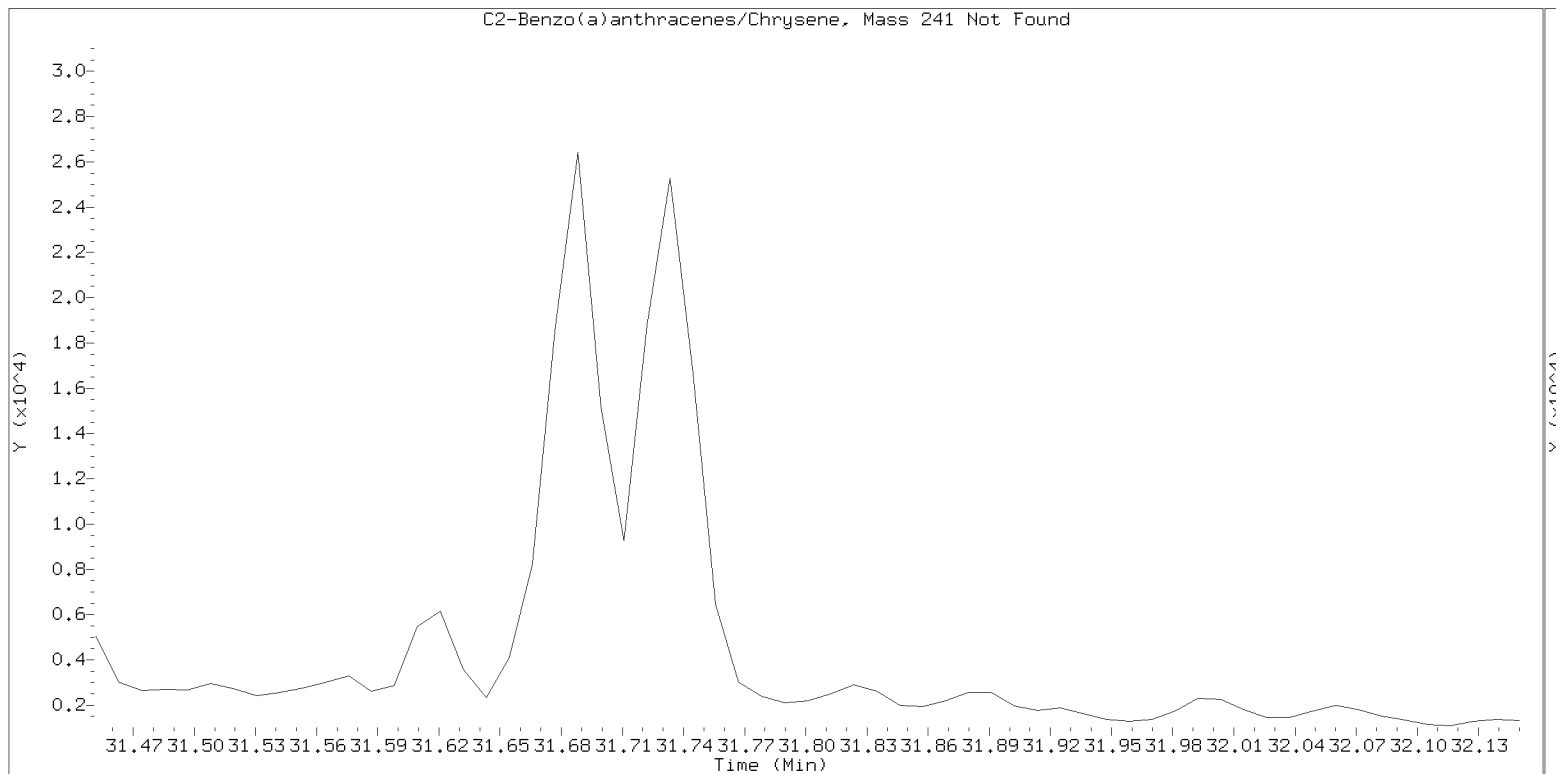
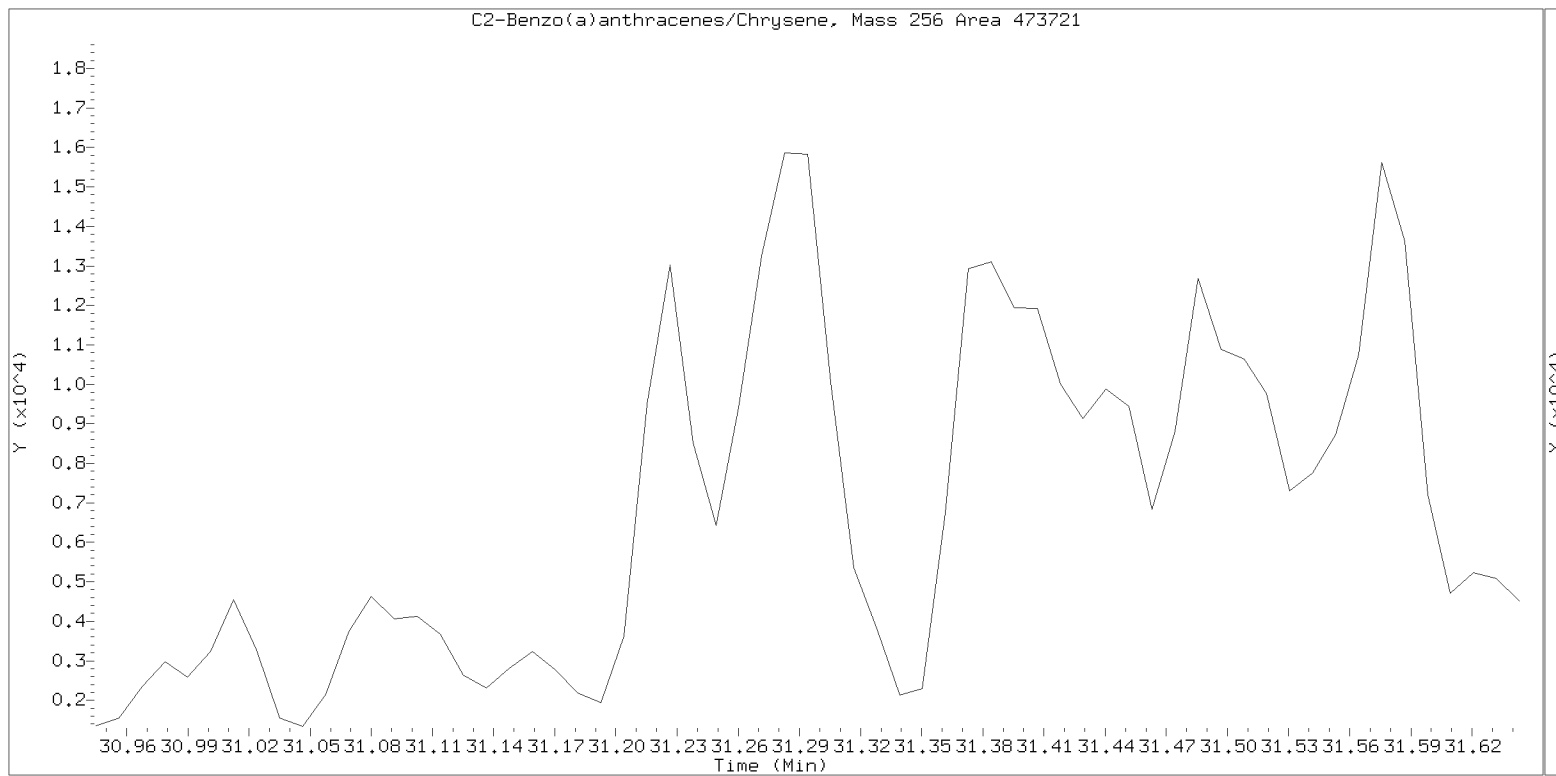
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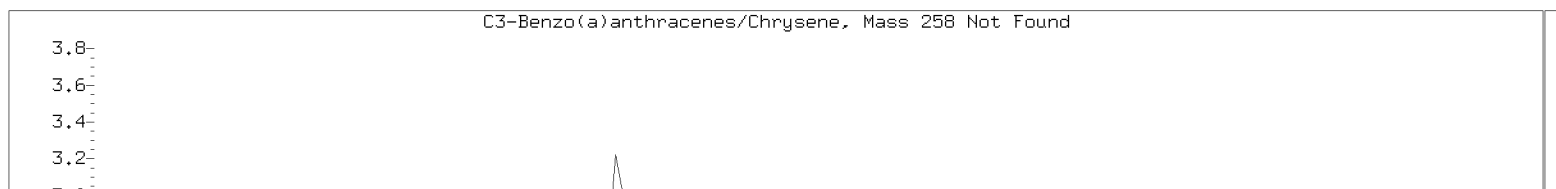
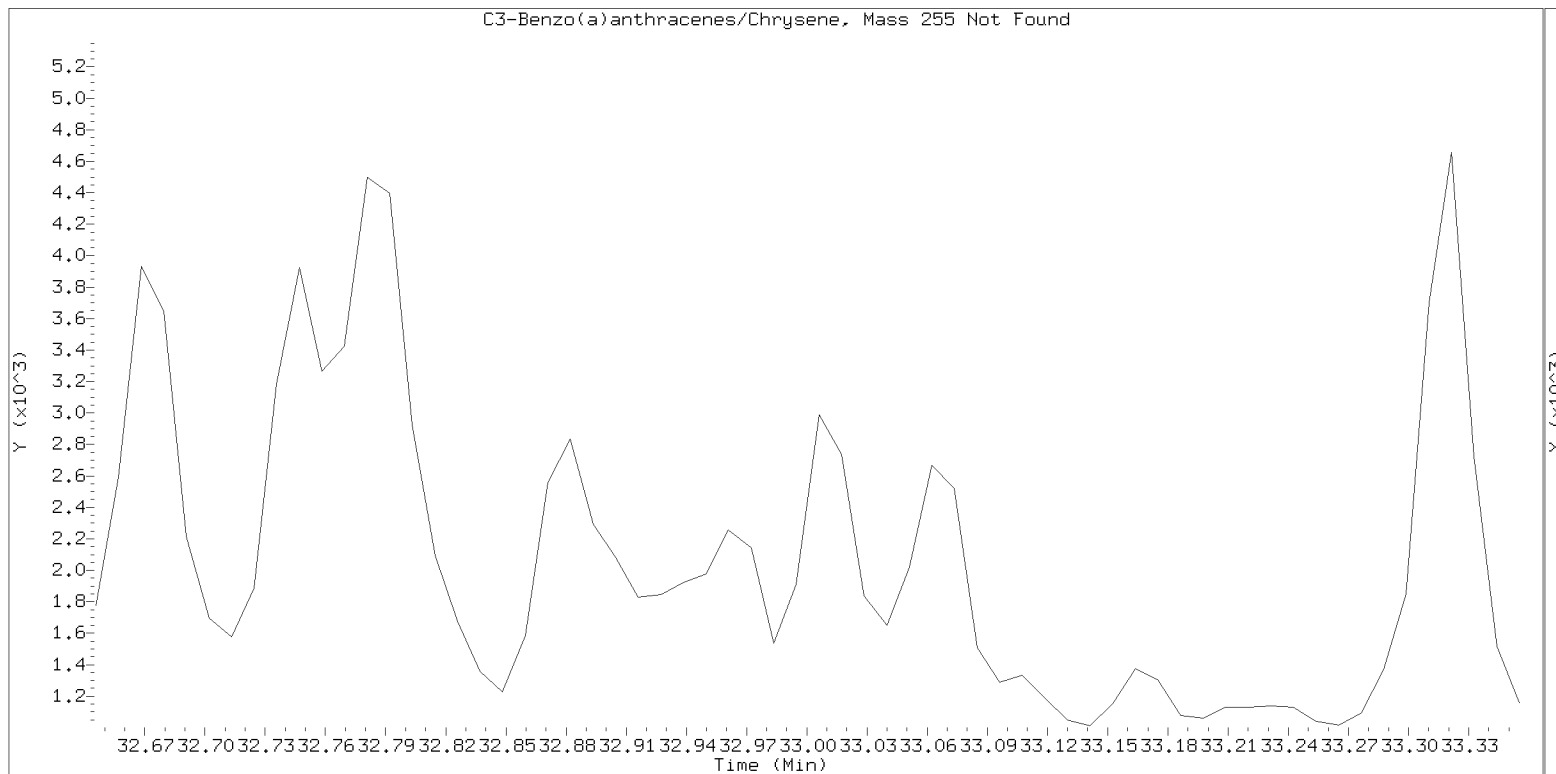
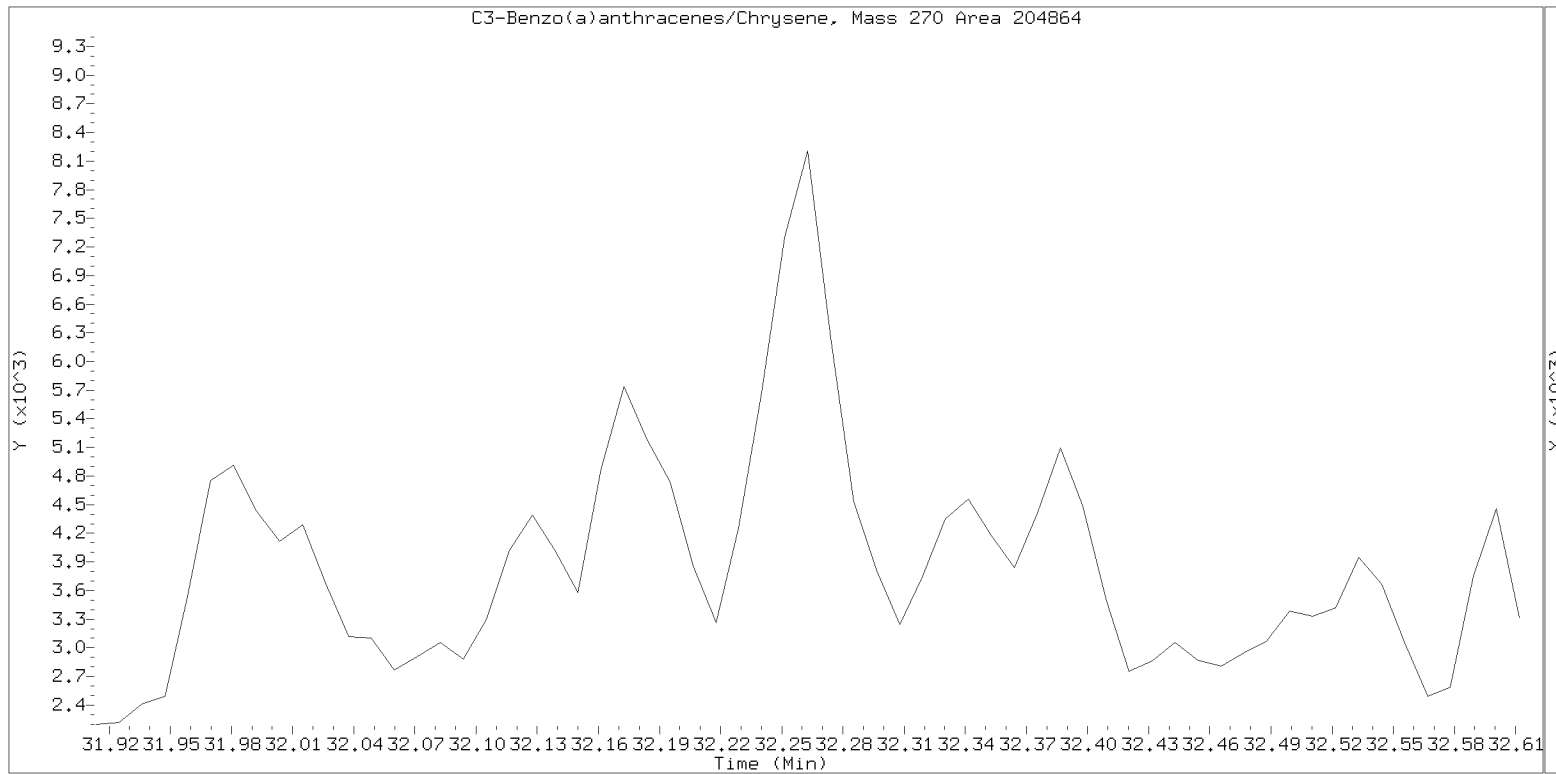
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

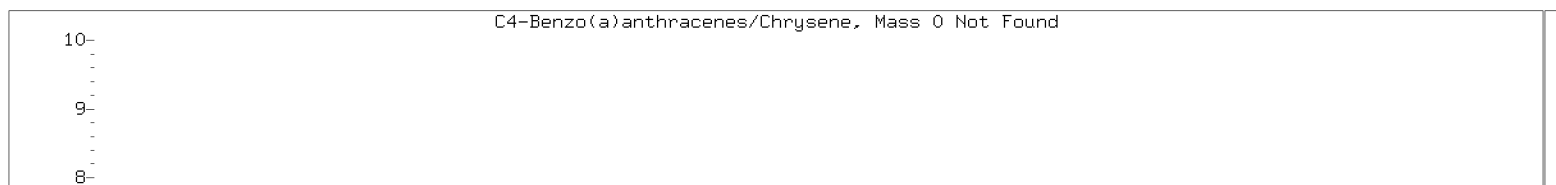
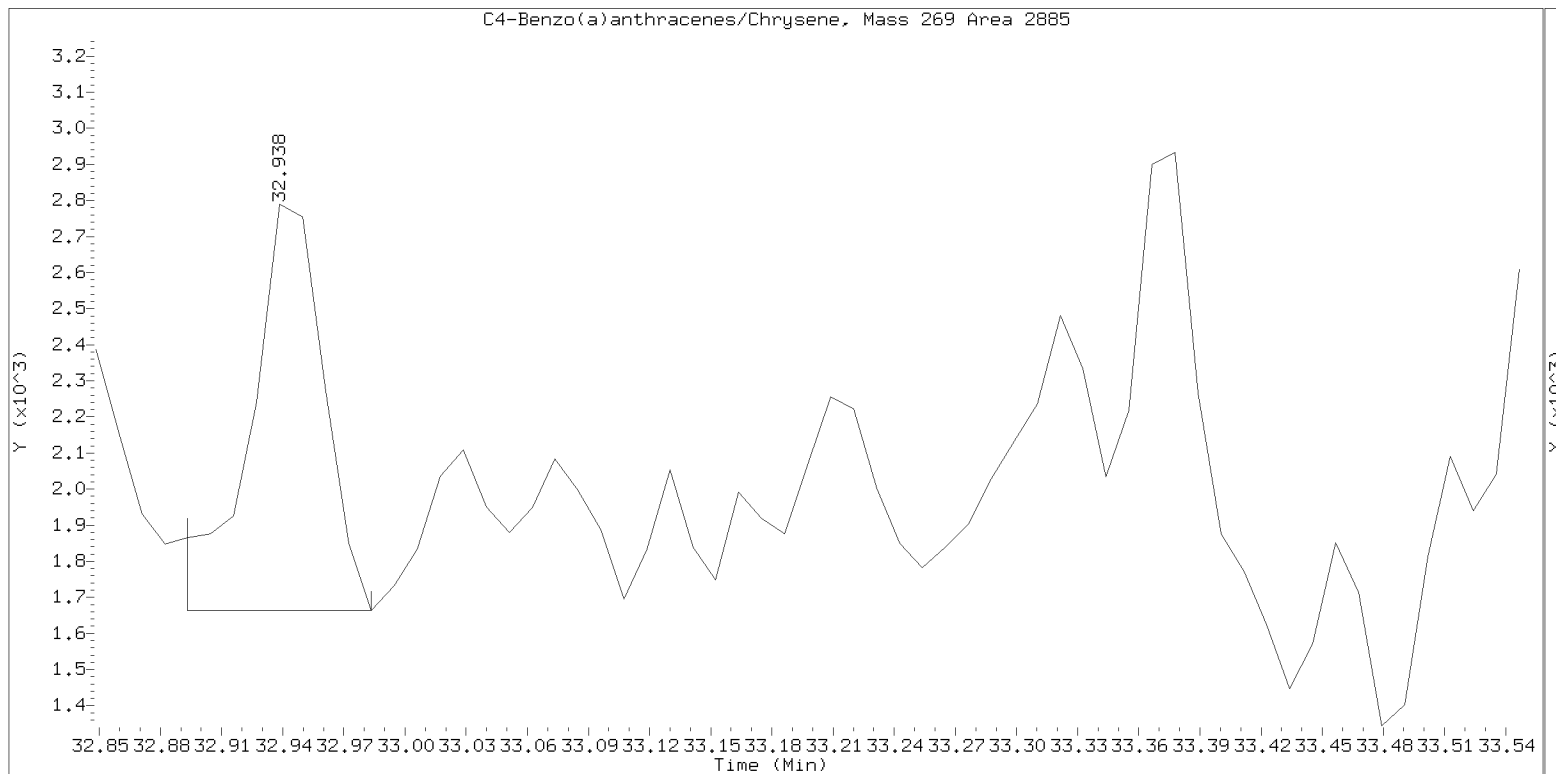
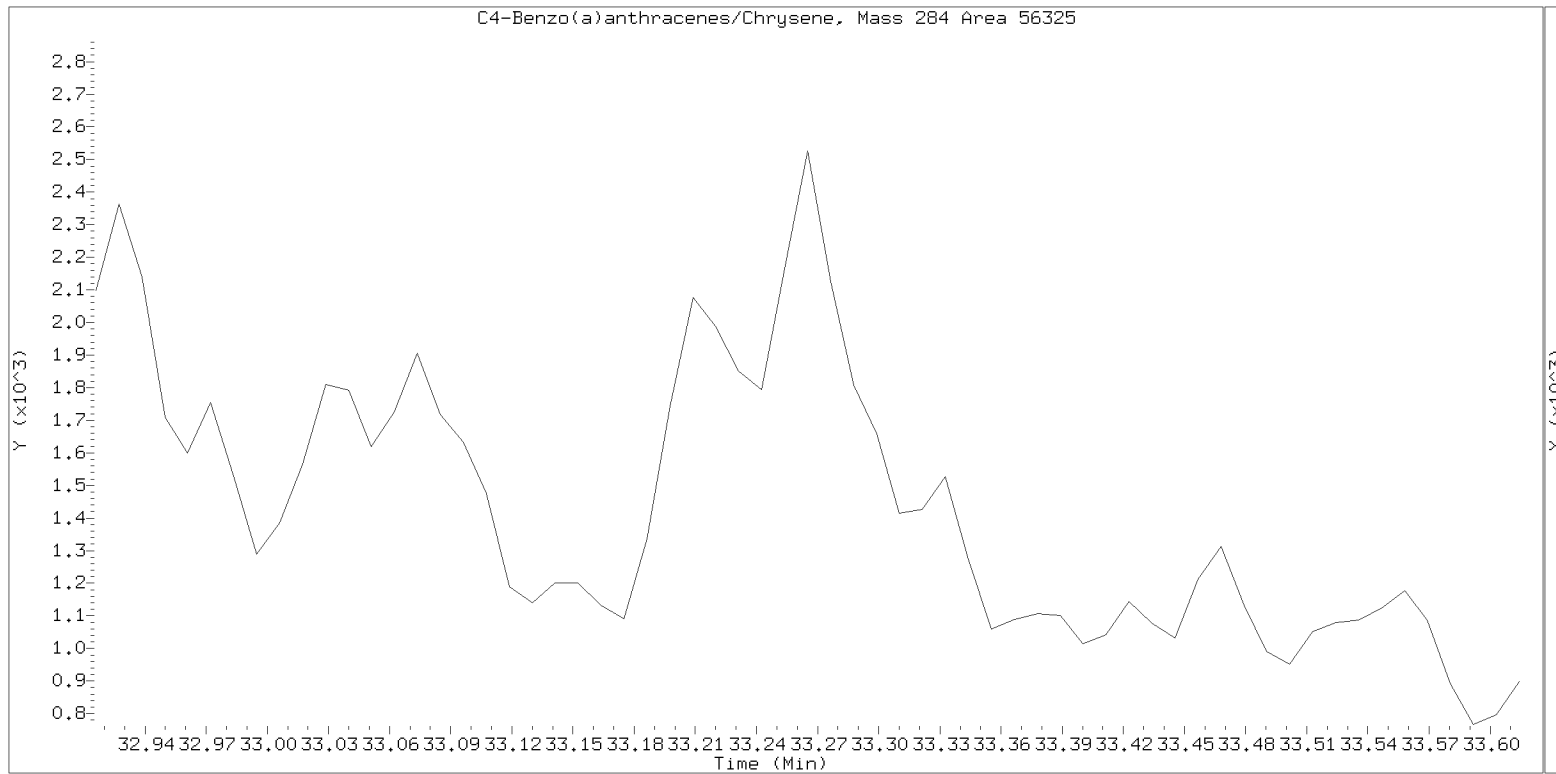
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

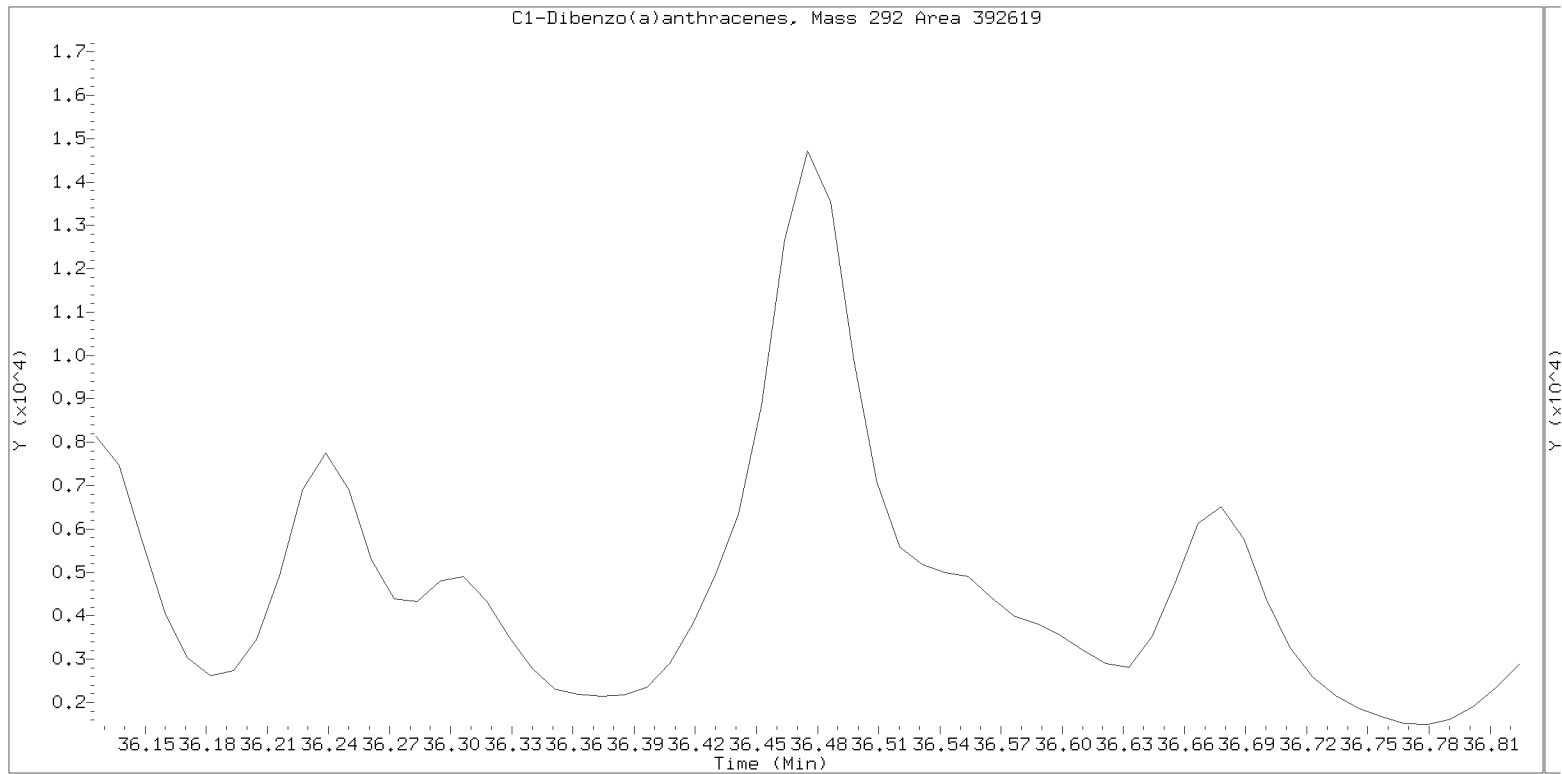
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

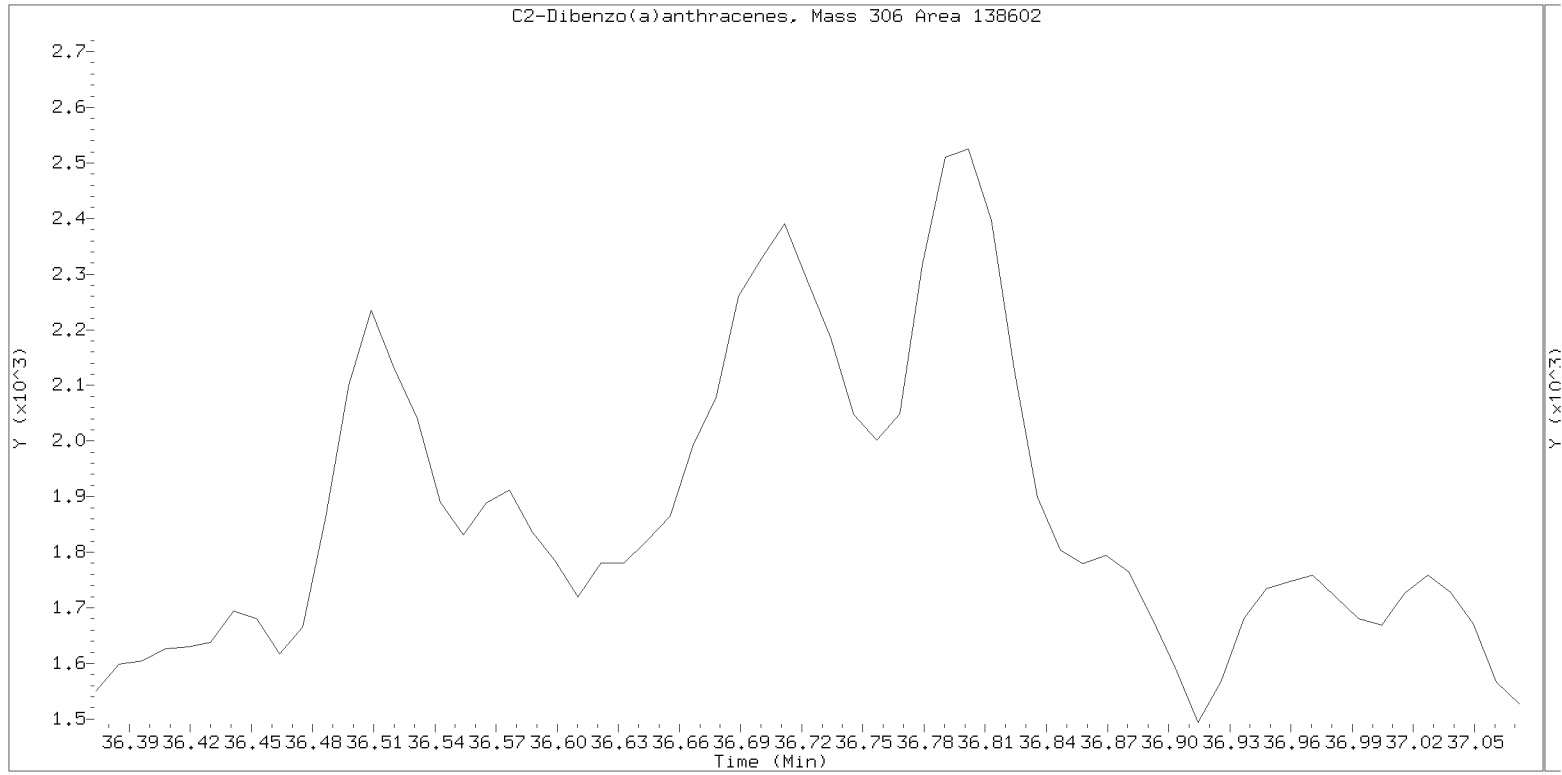
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

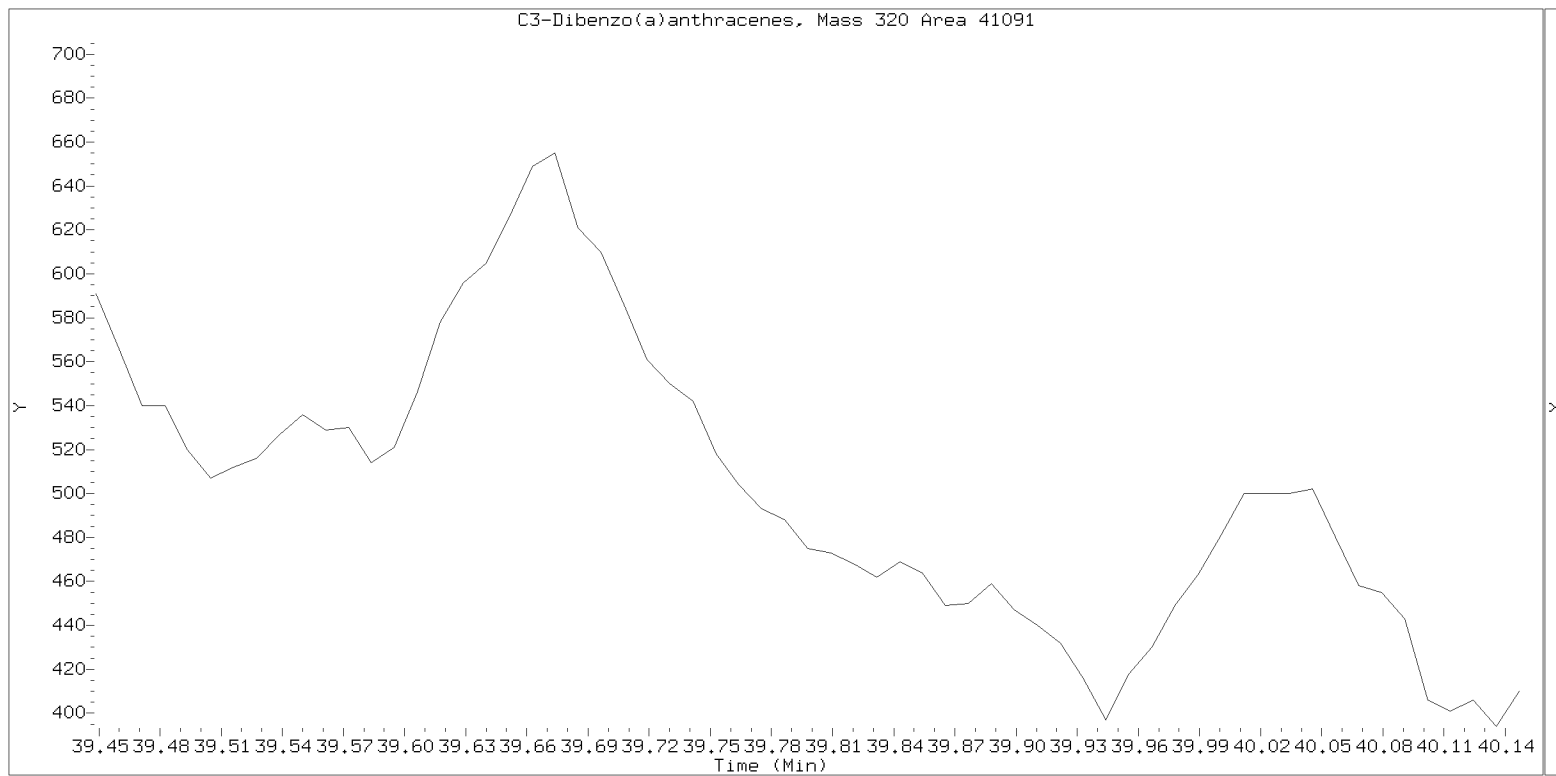
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102005S.D

Lab ID: 20J0121-01

nt14.i, SIM.b\ALKYLRANGE.m, 20-OCT-2020 12:35





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01RE1 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102208.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/22/20 14:56
Batch: BIJ0442 Sequence: SIJ0333 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
493-02-7	trans-Decalin	10	49.9	U	0.3	49.9
493-01-6	cis-Decalin	10	49.9	U	4.9	49.9
91-20-3	Naphthalene	10	177	D	4.5	49.9
90-12-0	1-Methylnaphthalene	10	53.4	D	3.8	49.9
91-57-6	2-Methylnaphthalene	10	86.8	D	4.4	49.9
92-52-4	Biphenyl	10	21.3	J, D	3.3	49.9
581-42-0	2,6-Dimethylnaphthalene	10	36.9	J, D	3.9	49.9
208-96-8	Acenaphthylene	10	59.5	D	2.6	49.9
83-32-9	Acenaphthene	10	374	D	4.6	49.9
132-64-9	Dibenzofuran	10	44.2	J, D	4.1	49.9
2245-38-7	2,3,5-Trimethylnaphthalene	10	30.8	J, D	4.5	49.9
86-73-7	Fluorene	10	189	D	4.7	49.9
95-15-8	Benzo(b)thiophene	10	13.9	J, D	3.6	49.9
85-01-8	Phenanthrene	10	1970	D	9.3	49.9
120-12-7	Anthracene	10	544	D	0.5	49.9
86-74-8	Carbazole	10	242	D	7.1	49.9
832-69-9	1-Methylphenanthrene	10	197	D	5.0	49.9
206-44-0	Fluoranthene	10	3710	D	13.6	49.9
132-65-0	Dibenzothiophene	10	123	D	6.5	49.9
129-00-0	Pyrene	10	4090	D	10.2	49.9
56-55-3	Benzo(a)anthracene	10	1720	D	14.1	49.9
218-01-9	Chrysene	10	1960	D	7.1	49.9
205-99-2	Benzo(b)fluoranthene	10	1510	D	7.9	49.9
205-82-3	Benzo(j)fluoranthene	10	905	D	6.8	49.9
207-08-9	Benzo(k)fluoranthene	10	769	D	7.9	49.9
	Benzofluoranthenes, Total	10	3220	D	30.1	99.9
197-97-2	Benzo(e)pyrene	10	1420	D	6.2	49.9
50-32-8	Benzo(a)pyrene	10	2400	D	9.8	49.9
193-39-5	Indeno(1,2,3-cd)pyrene	10	1450	D	3.7	49.9
53-70-3	Dibenzo(a,h)anthracene	10	232	D	6.7	49.9



Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
SIM Alkyl PAH

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01RE1 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/14/20 11:58 File ID: NT1420102208.D
% Solids: 38.71 Preparation: EPA 3546 (Microwave) Analyzed: 10/22/20 14:56
Batch: BIJ0442 Sequence: SIJ0333 Initial/Final: 25.86 g Wet / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
191-24-2	Benzo(g,h,i)perylene	10	1950	D	5.2	49.9
1985-5-0	Perylene	10	602	D	4.5	49.9
239-35-0	Benzo(b)naphtho(2,1-d)thiophene	10	239	D	49.9	49.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
Naphthalene-d8	149.84	69.8	46.6	30 - 160	Q
Acenaphthene-d10	149.84	85.2	56.9	30 - 160	
Phenanthrene-d10	149.84	118	79.0	30 - 160	Q
Chrysene-d12	149.84	96.6	64.4	30 - 160	
Perylene-d12	149.84	107	71.2	30 - 160	

Data File: \\target\share\chem3\nt14.1\20201022.16\NT1420102208.D

Date : 22-OCT-2020 14:56

Client ID:

Sample Info: 20J0121-01REL.10

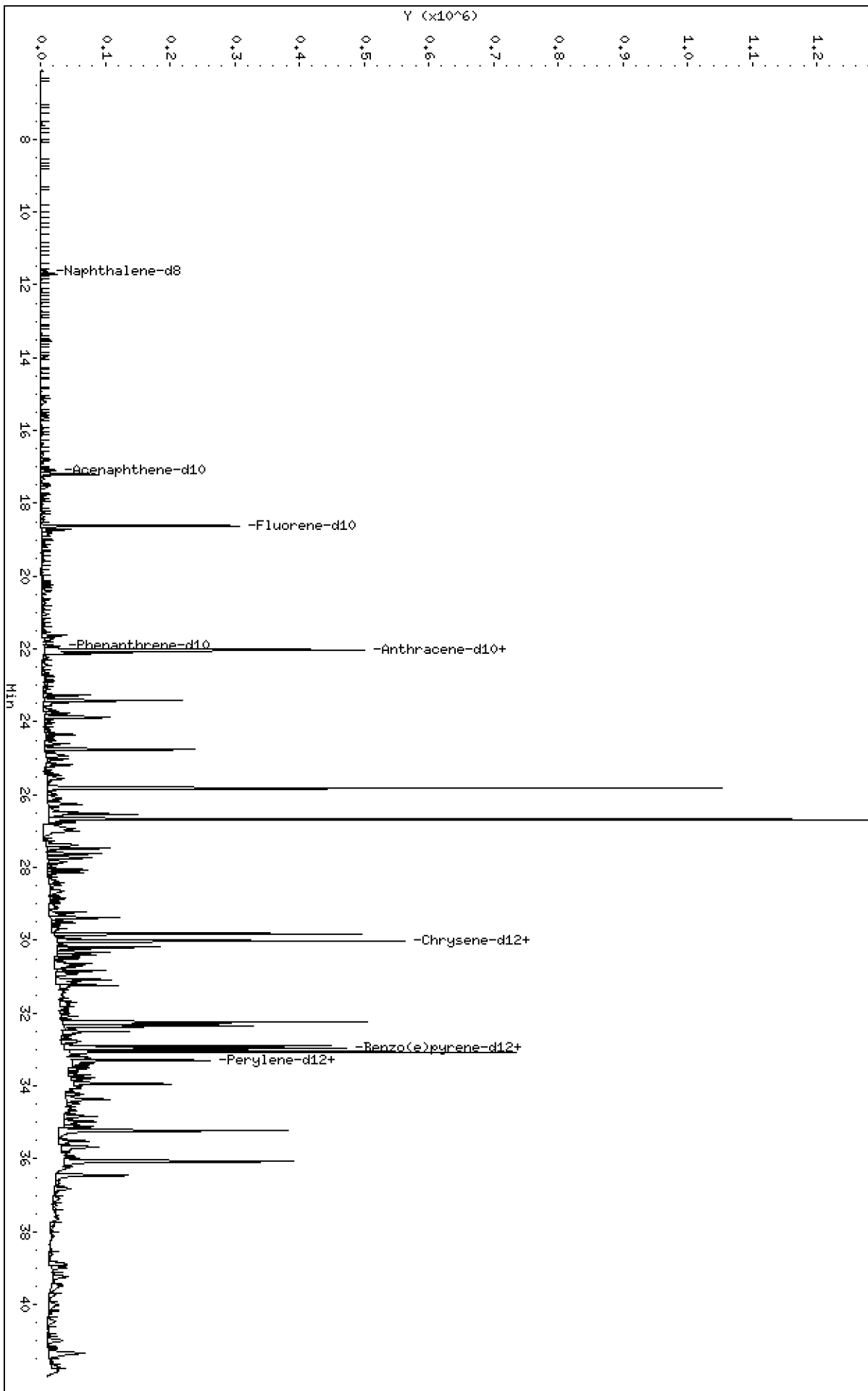
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

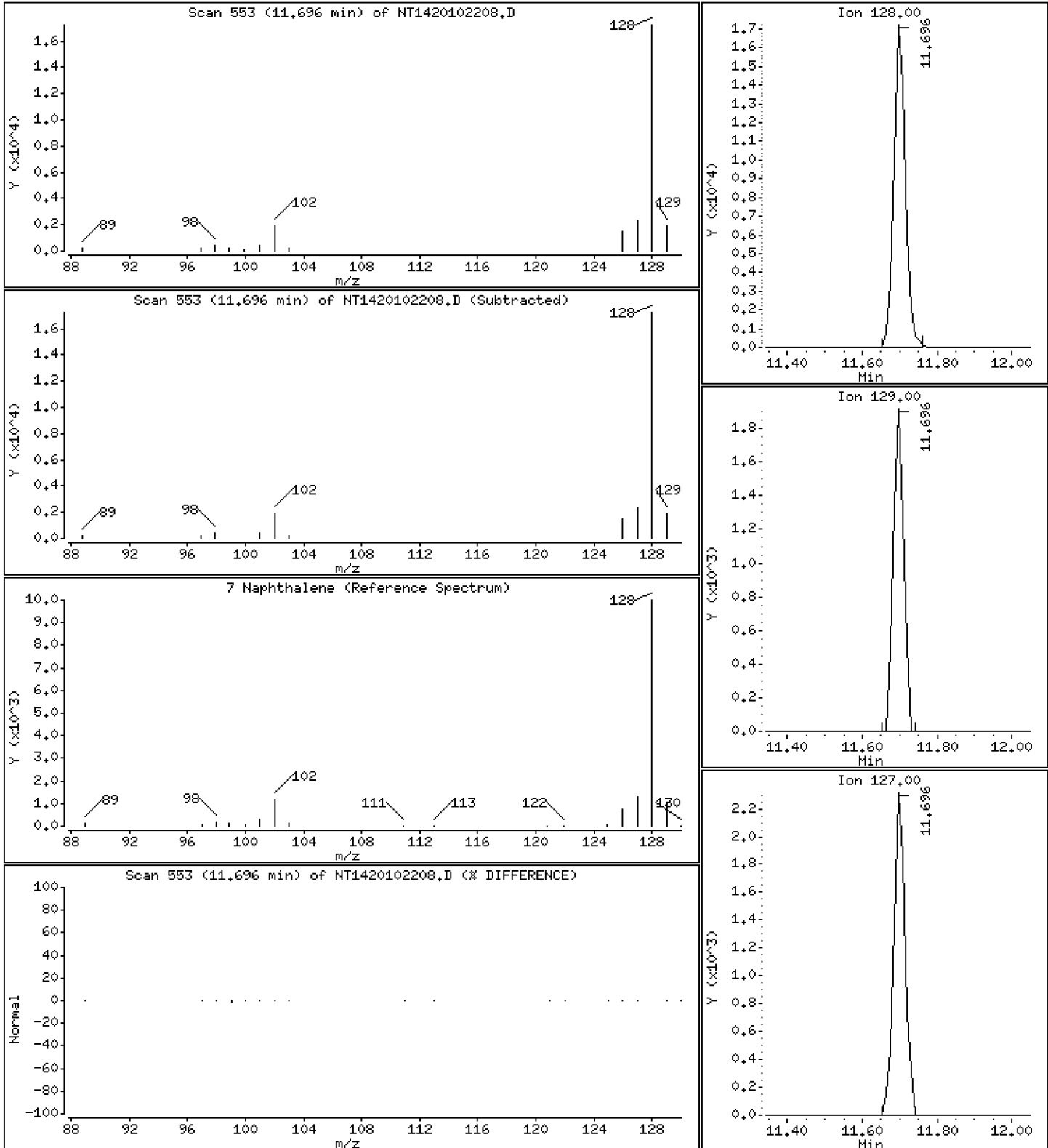
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 3,553 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

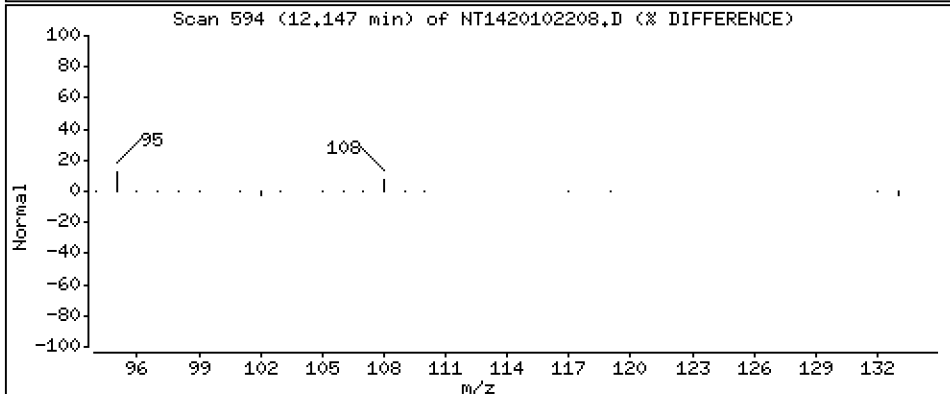
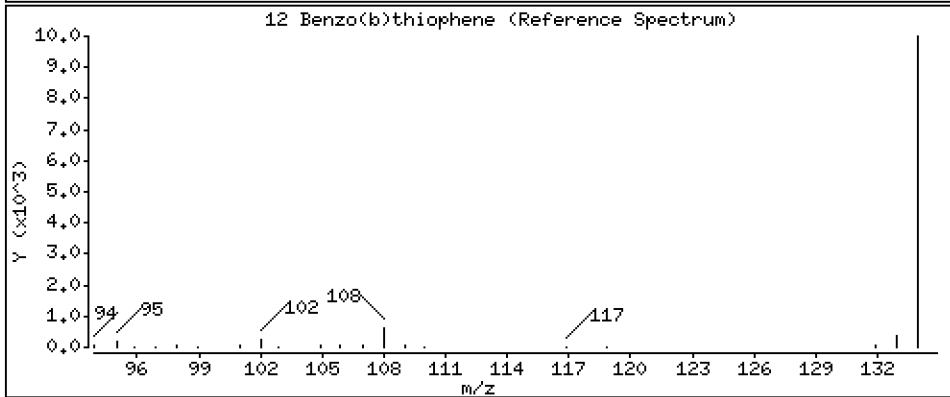
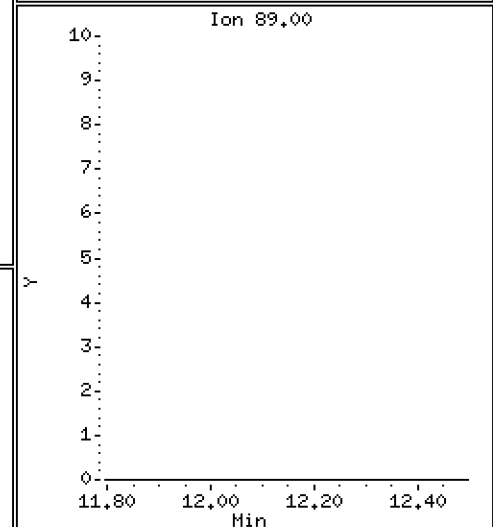
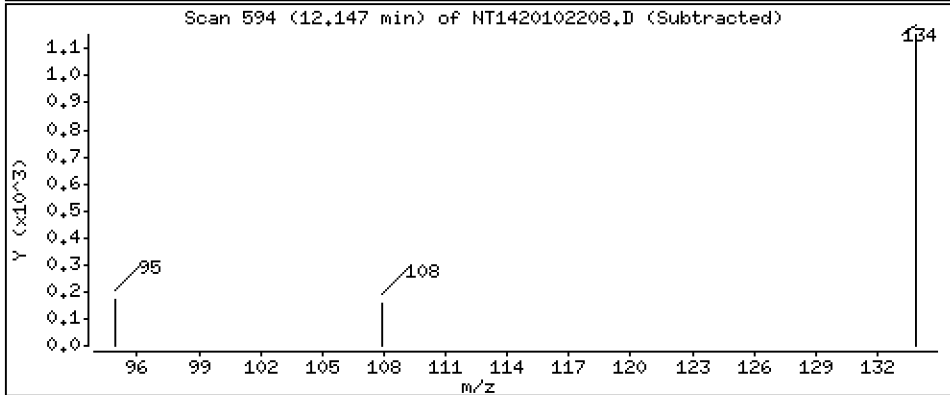
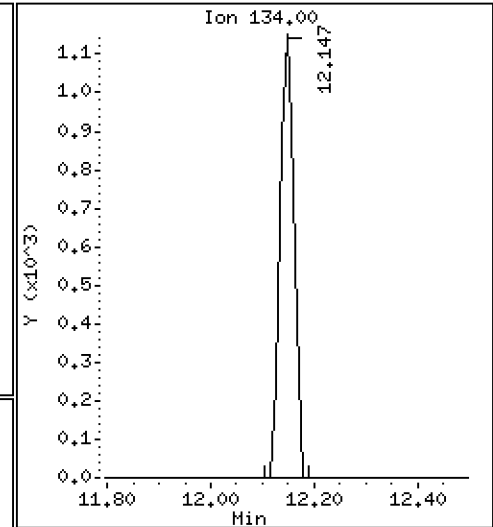
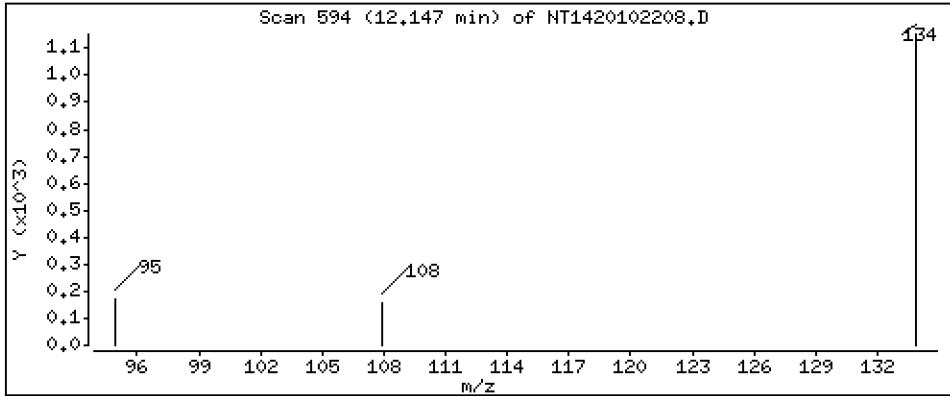
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Benzo(b)thiophene

Concentration: 0,2773 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

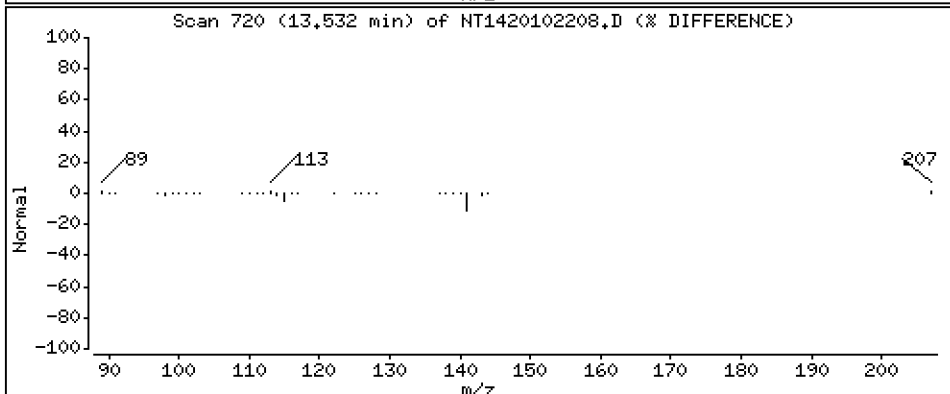
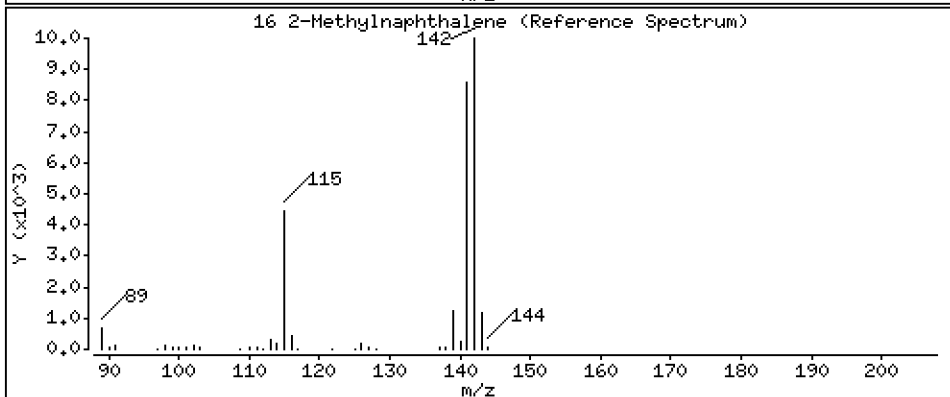
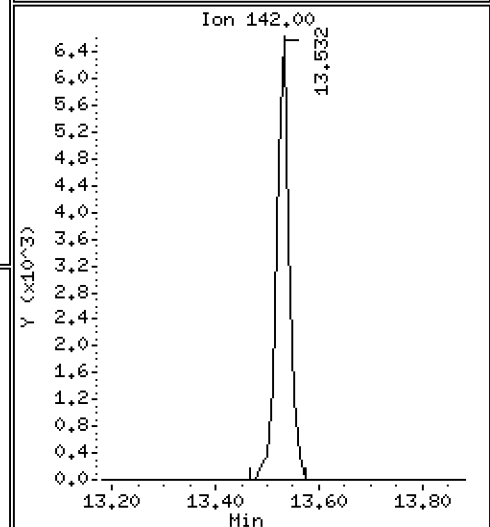
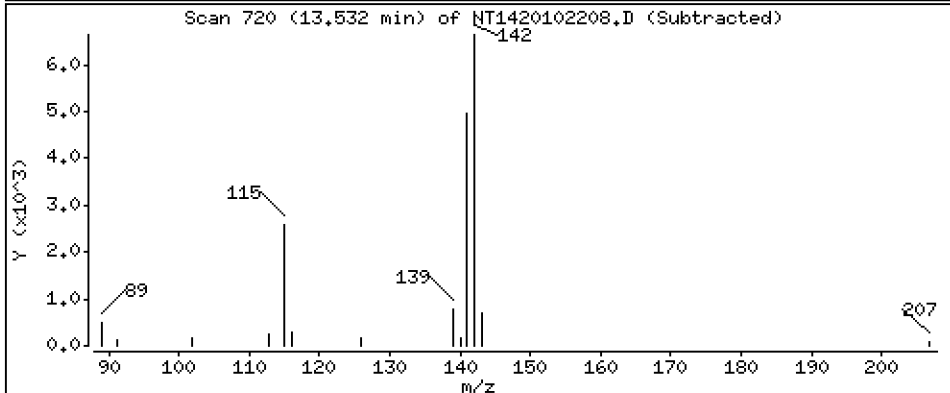
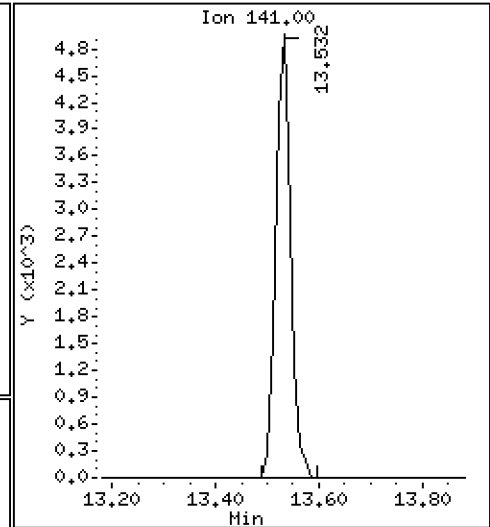
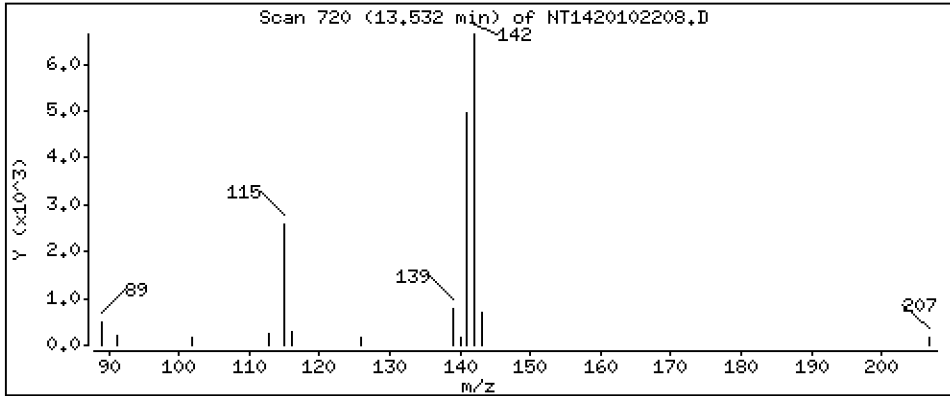
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 1,737 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

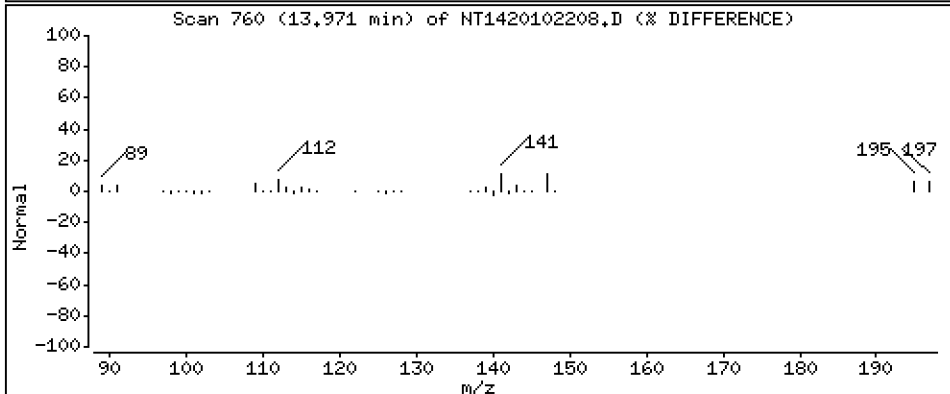
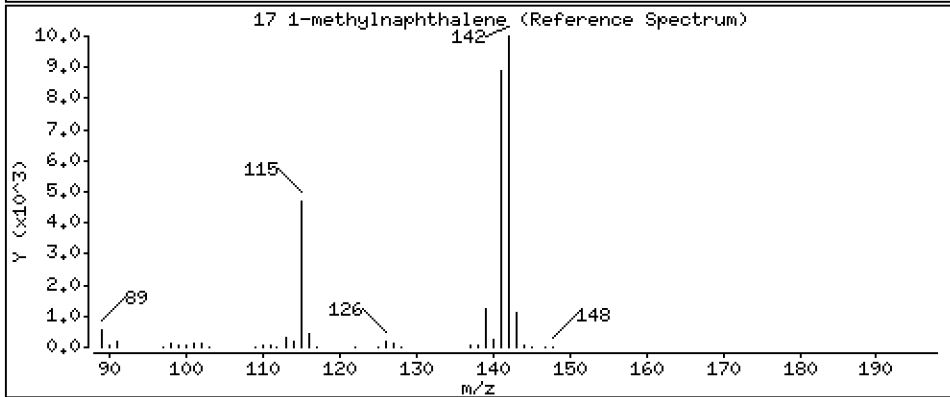
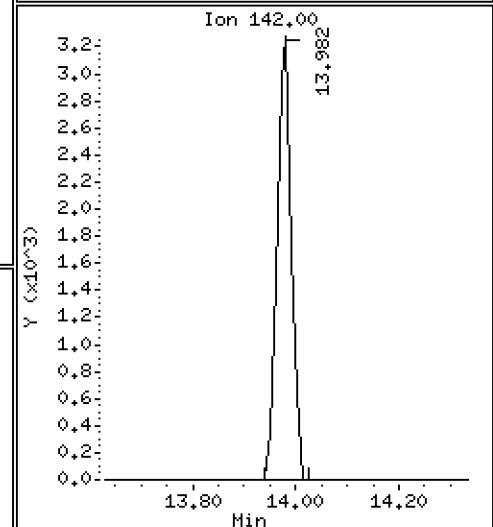
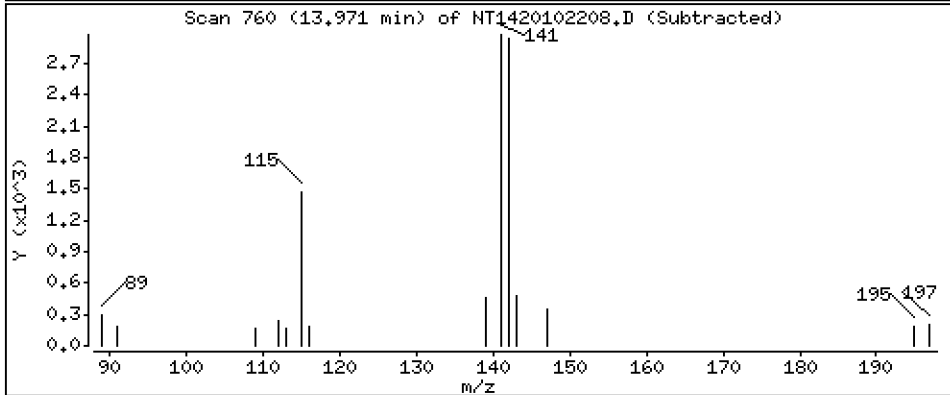
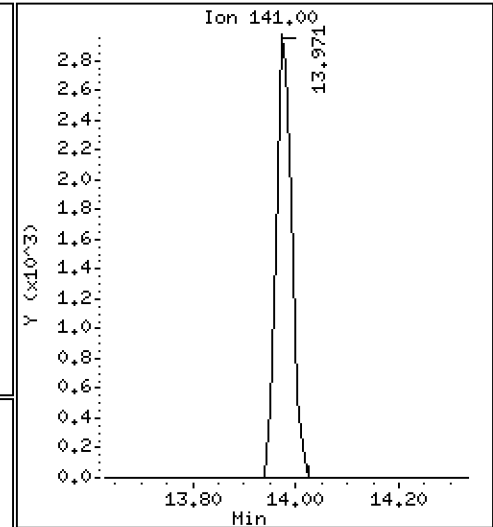
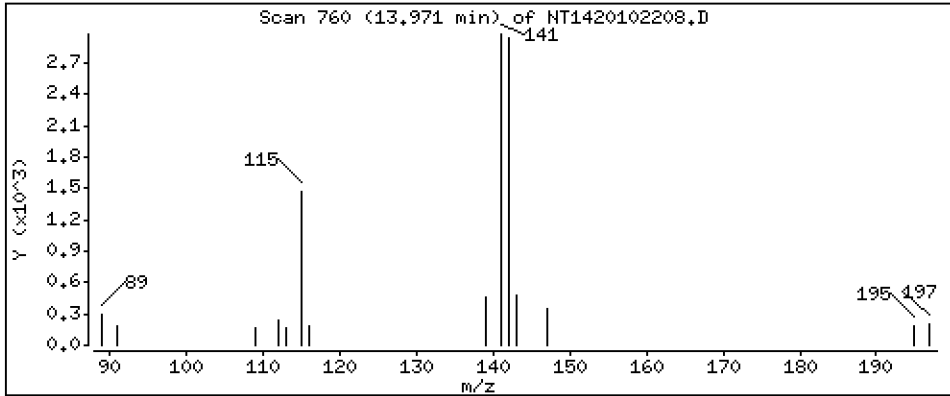
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 1,069 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

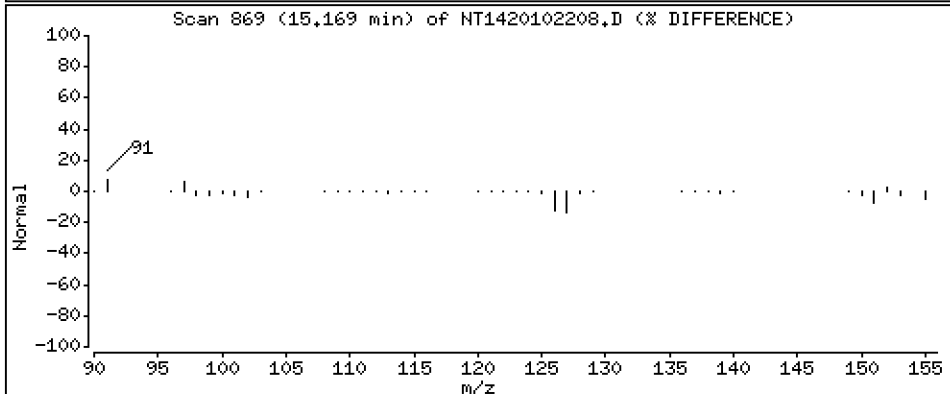
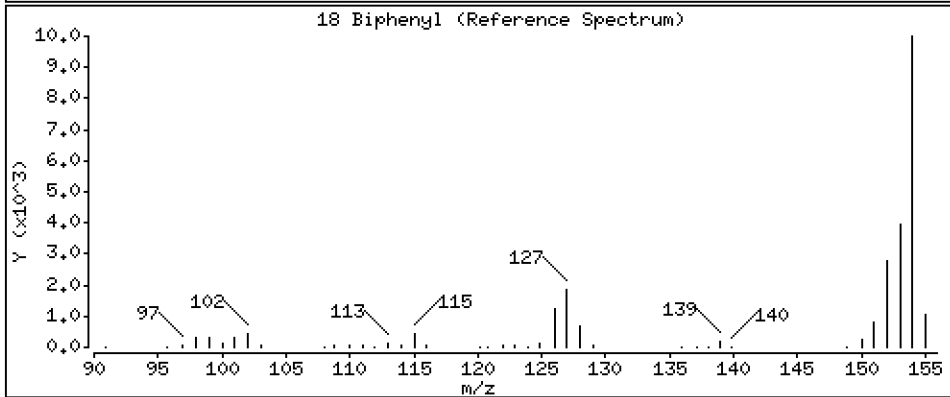
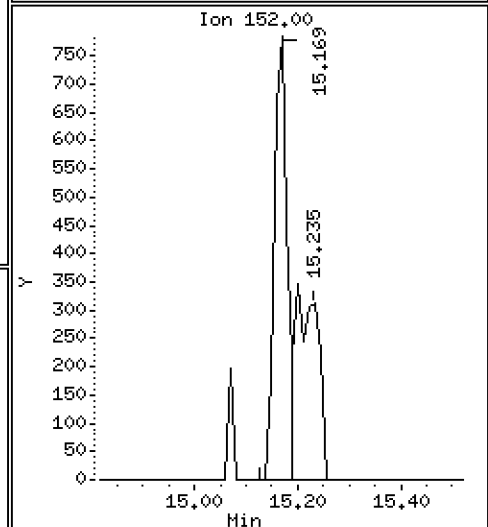
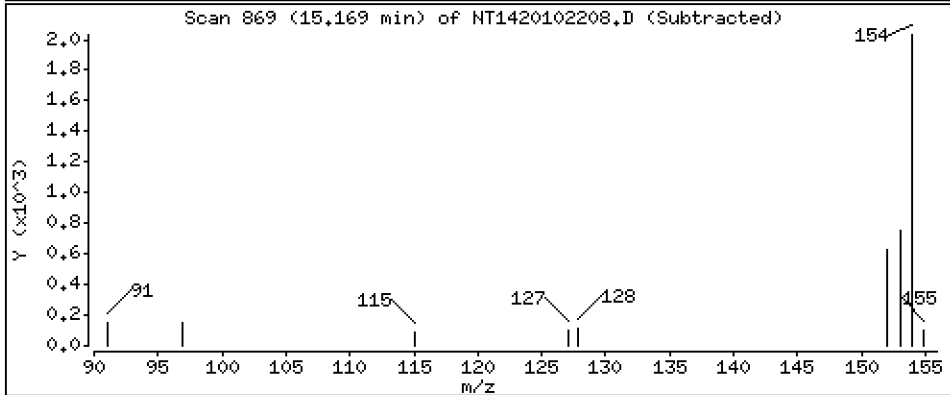
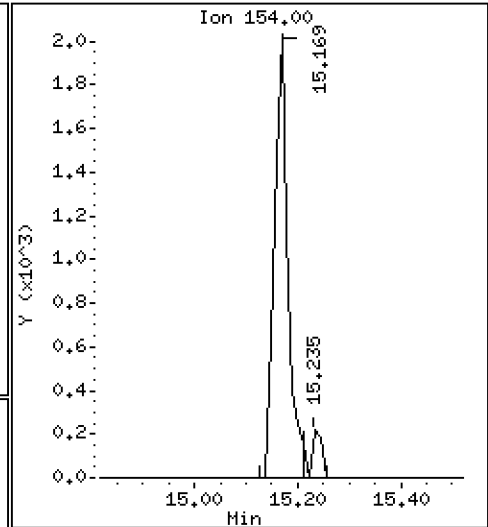
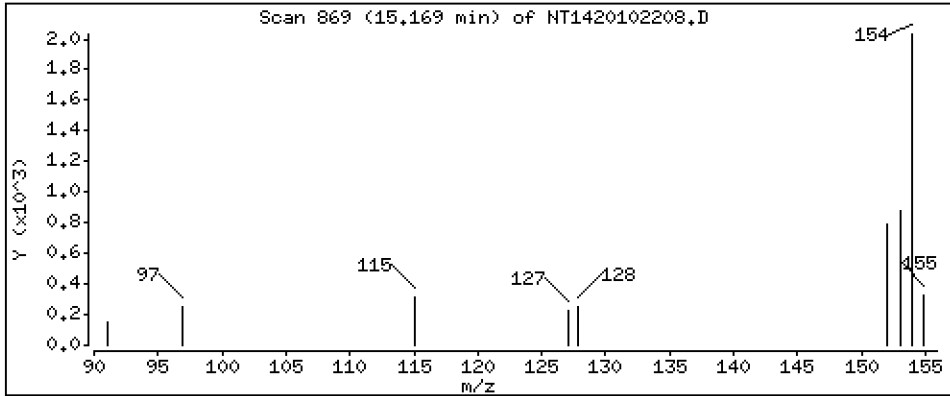
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

18 Biphenyl

Concentration: 0,4268 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

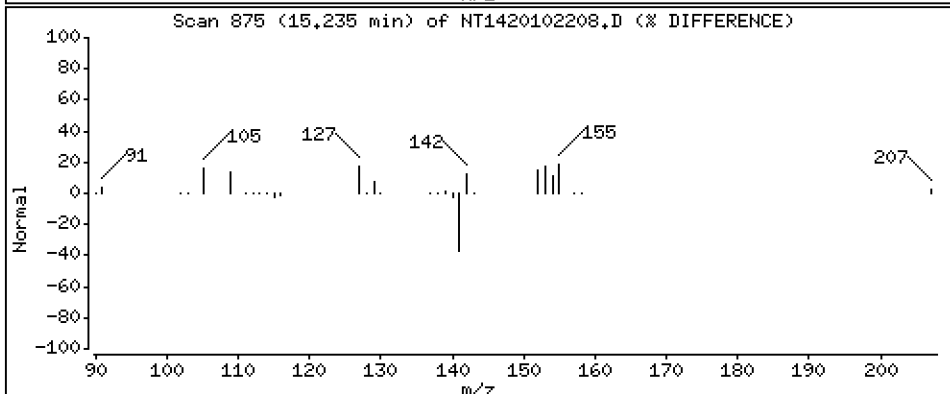
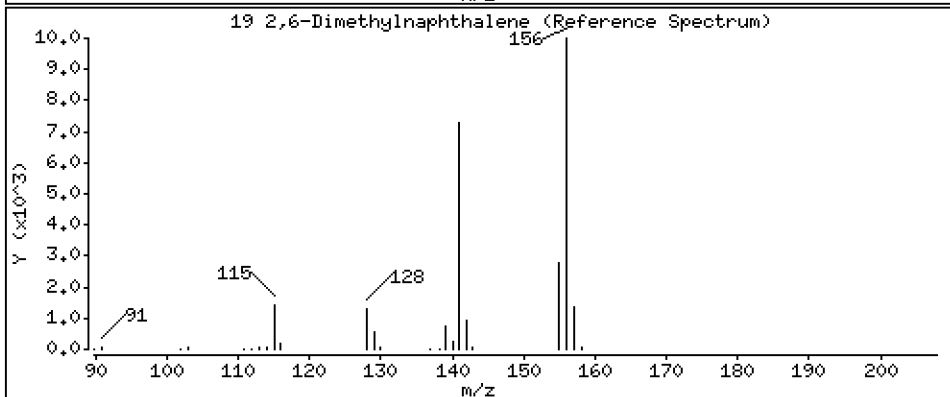
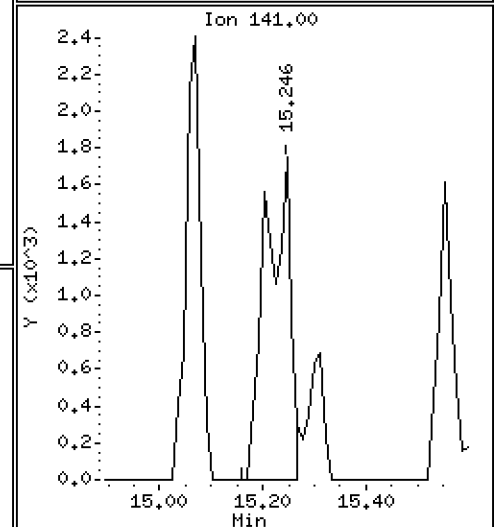
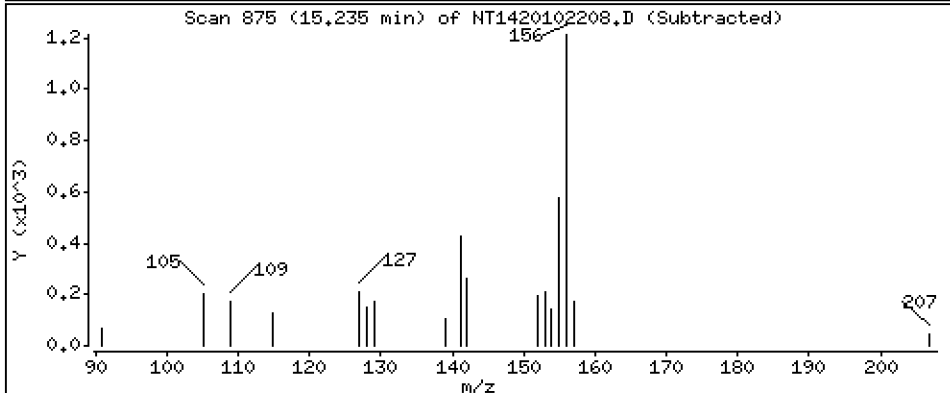
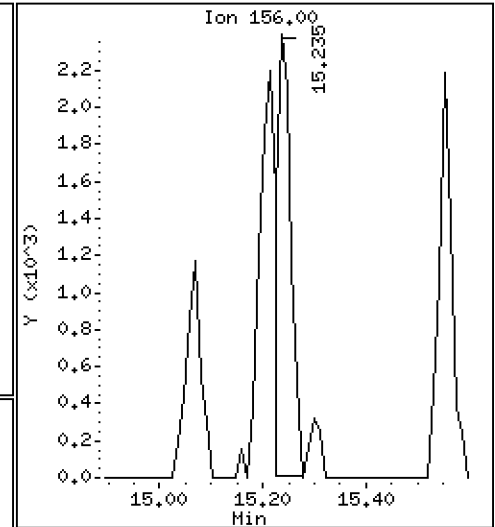
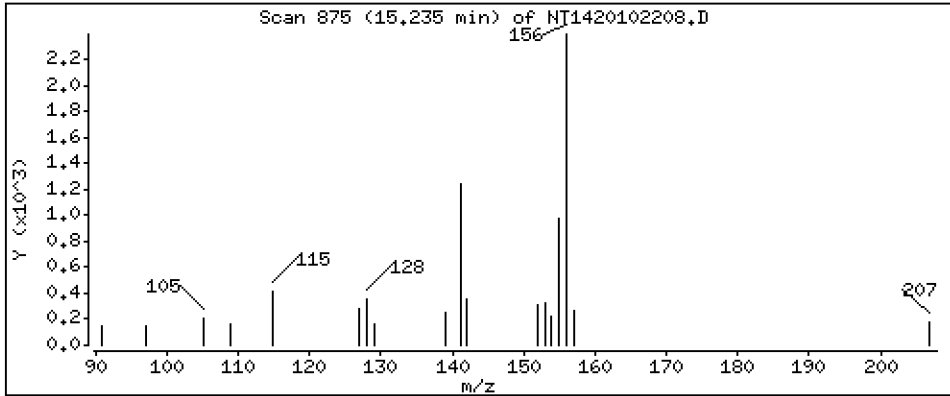
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 2,6-Dimethylnaphthalene

Concentration: 0,7381 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

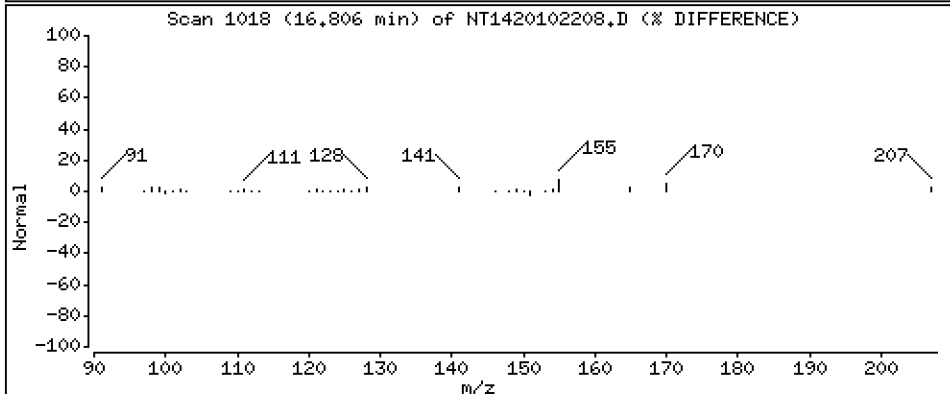
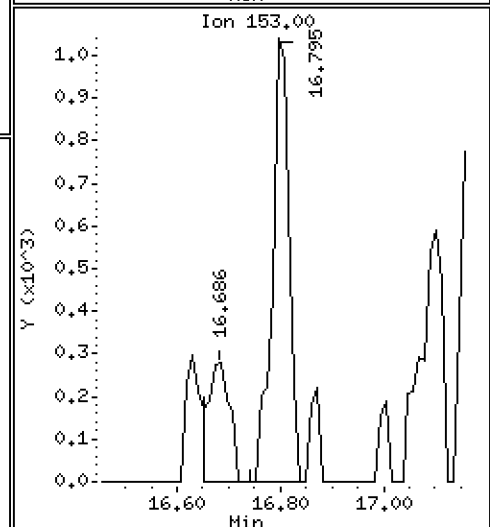
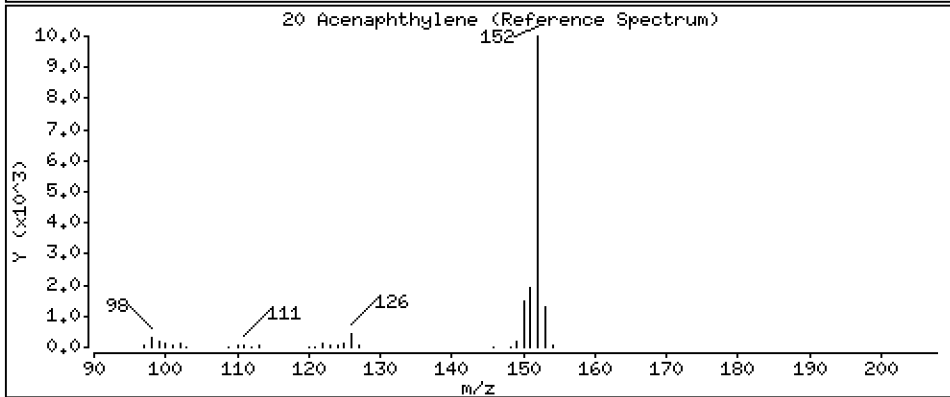
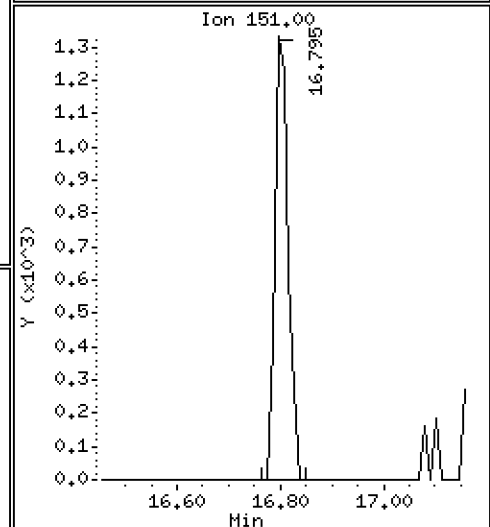
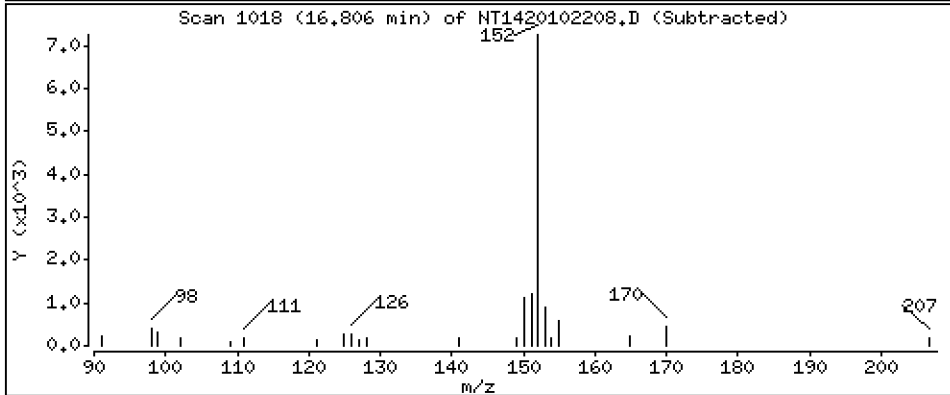
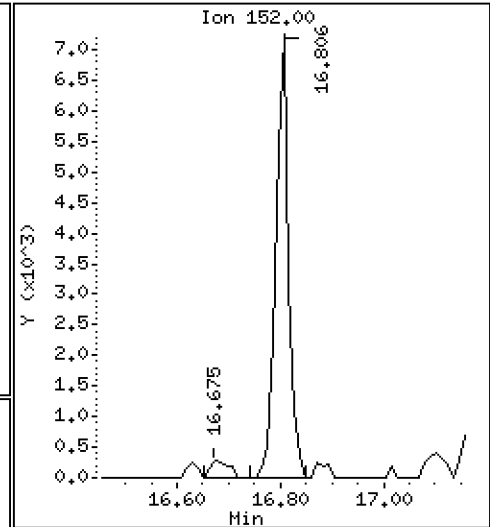
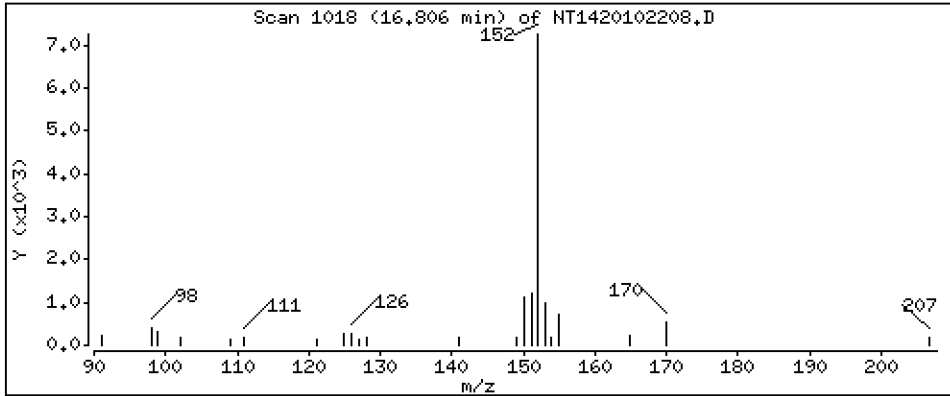
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 1,192 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

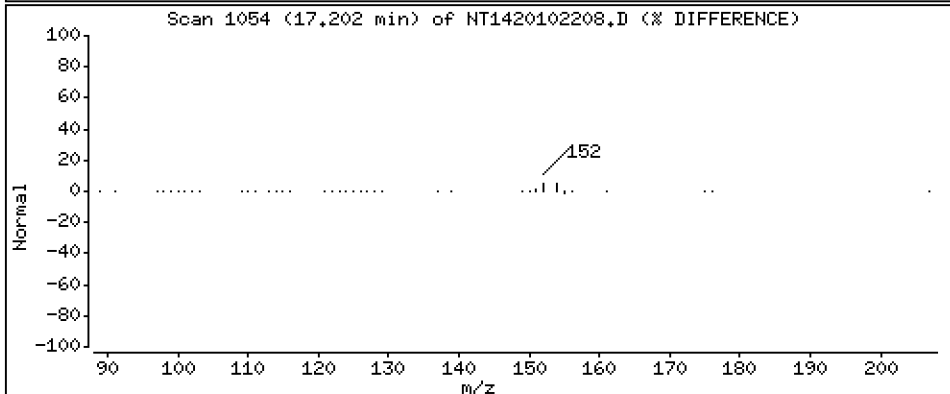
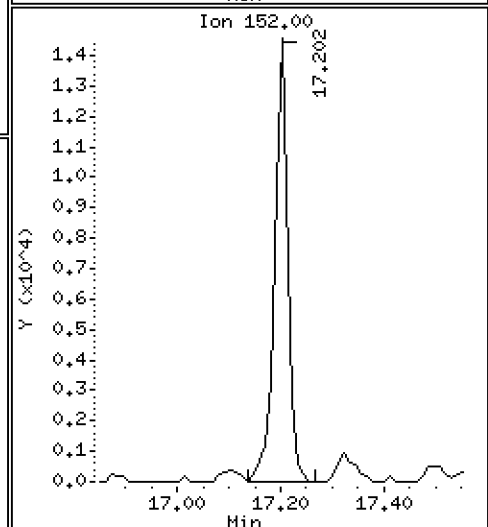
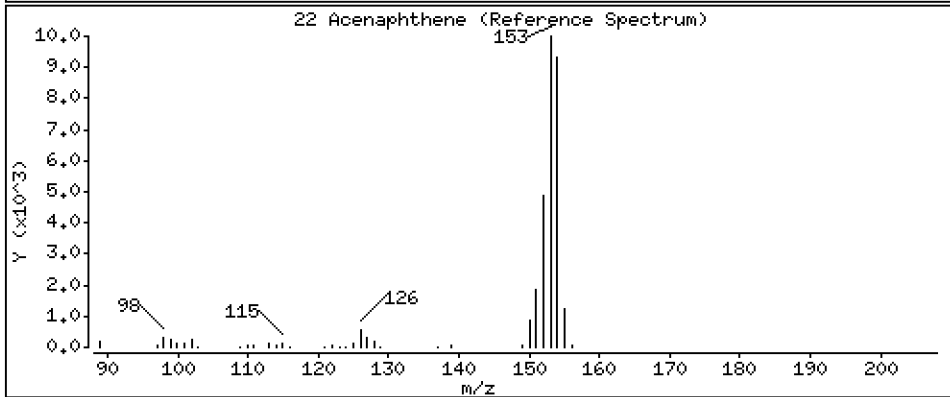
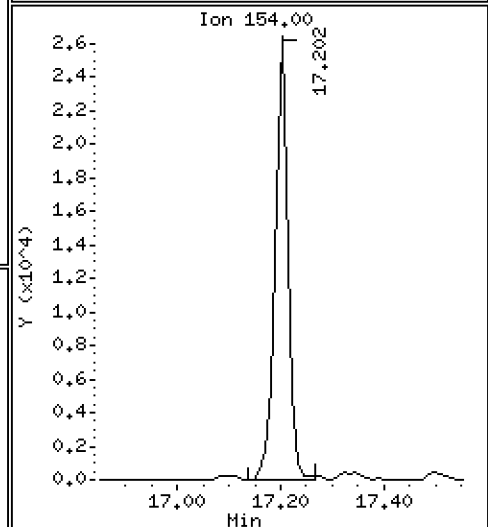
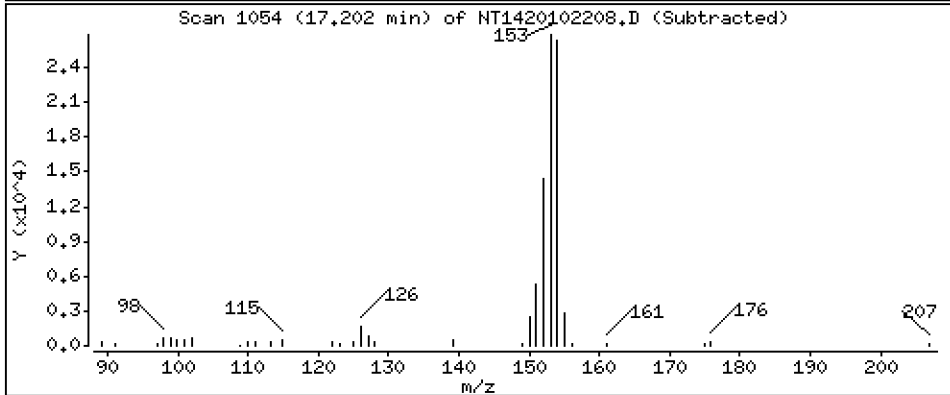
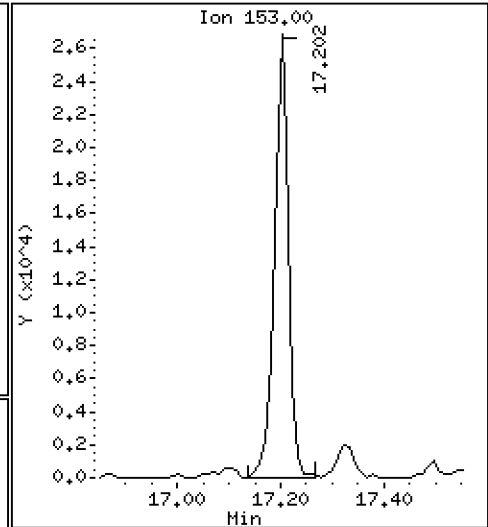
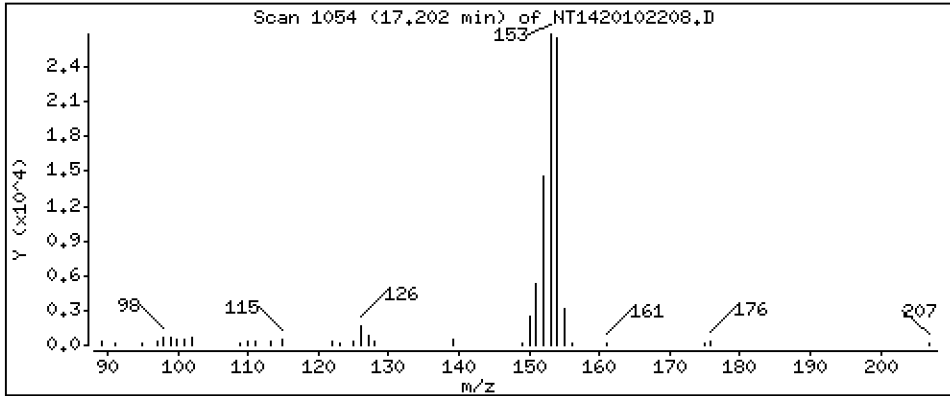
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 7,495 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

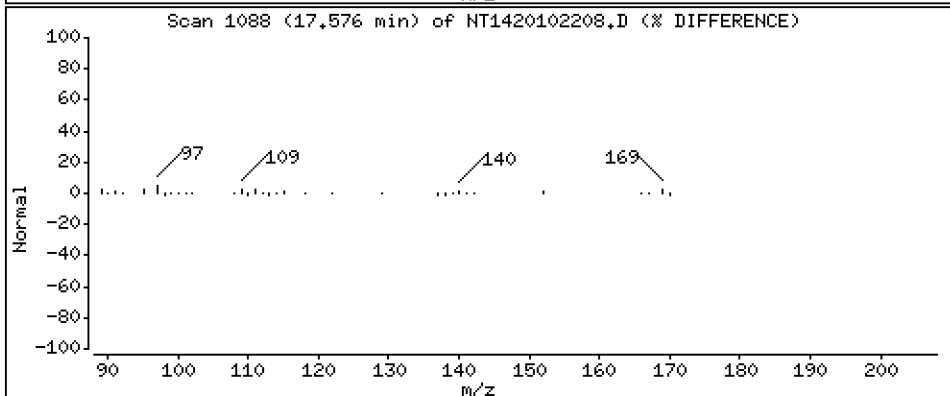
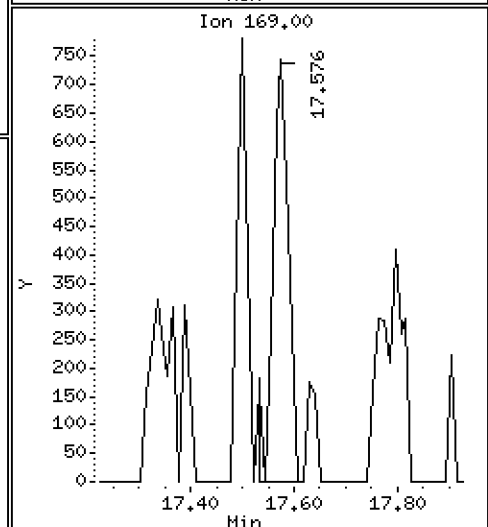
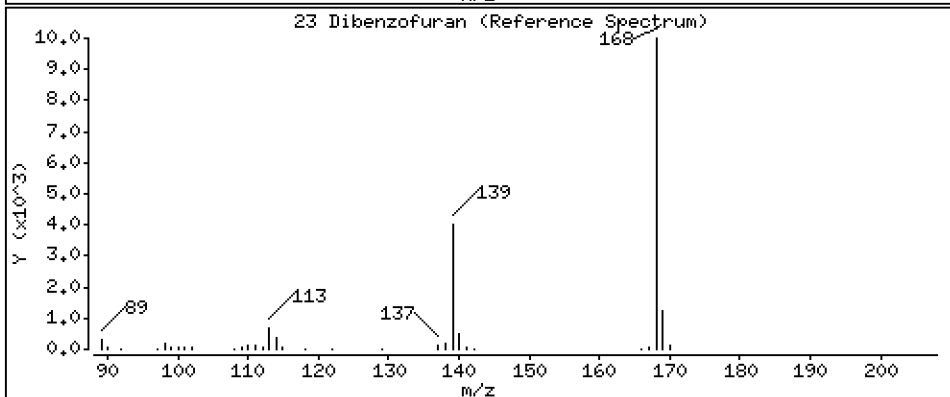
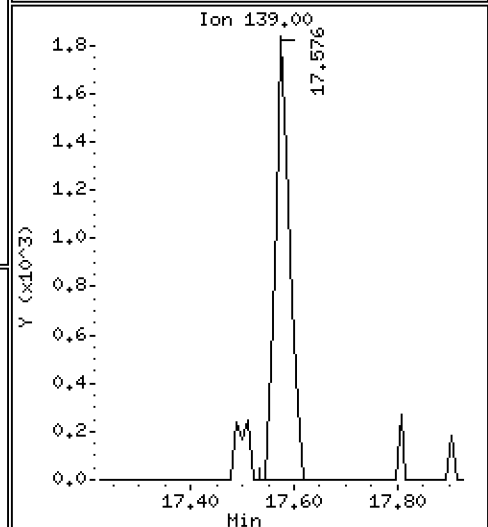
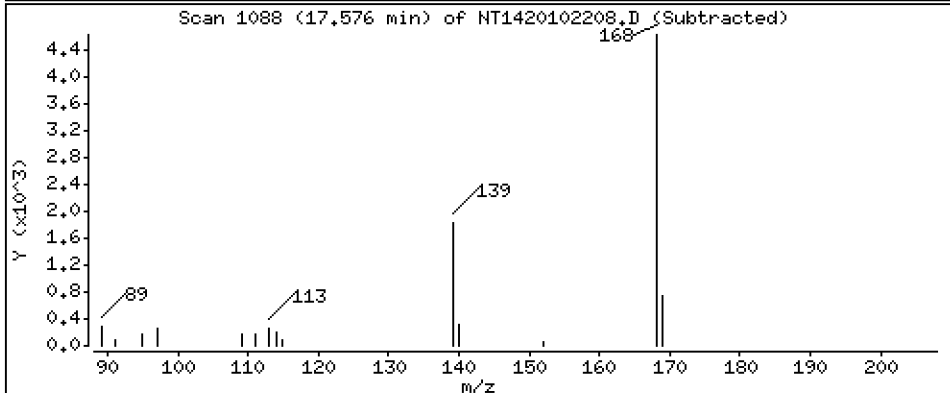
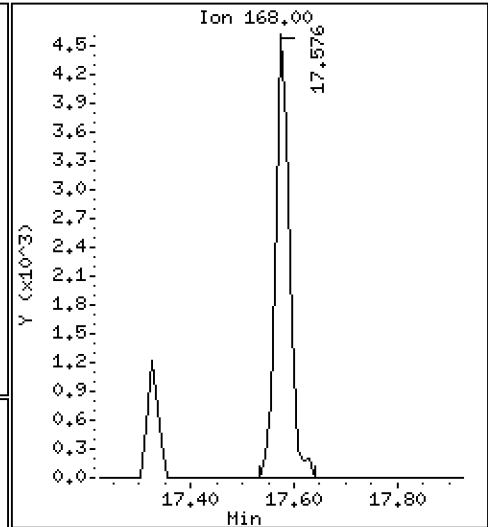
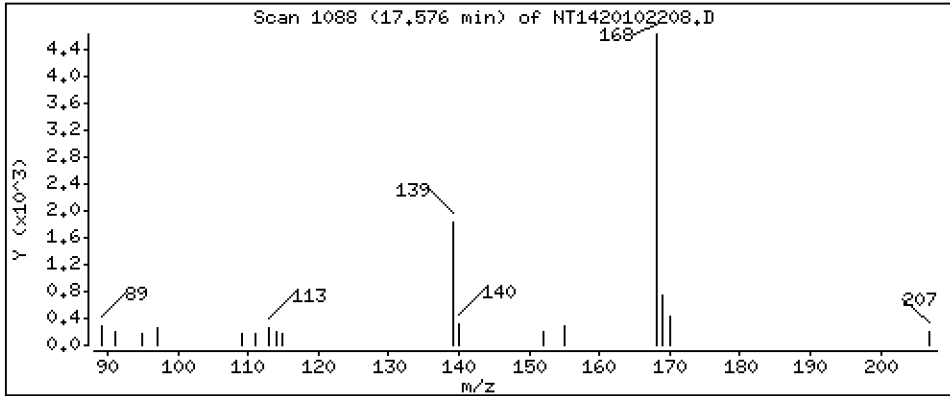
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 0,8859 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

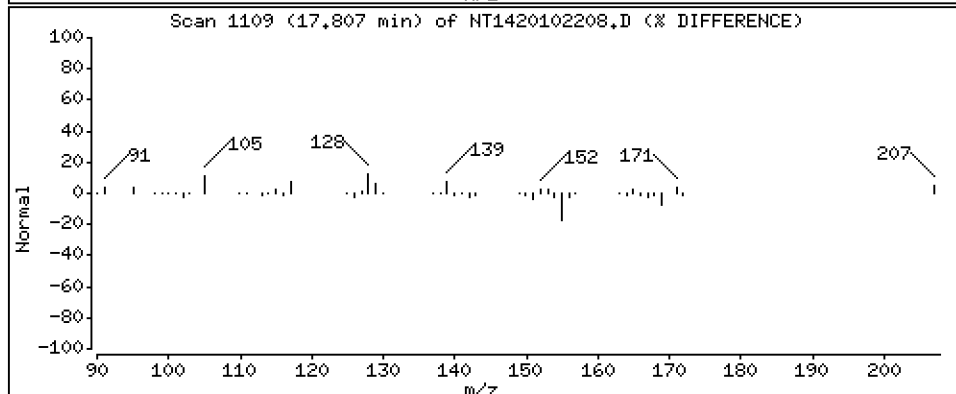
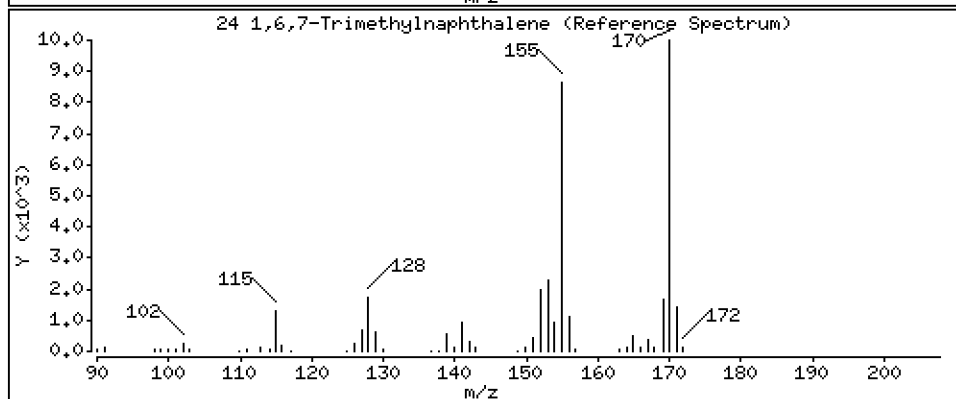
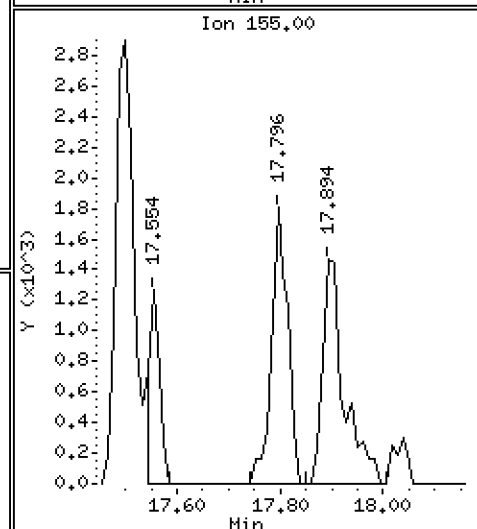
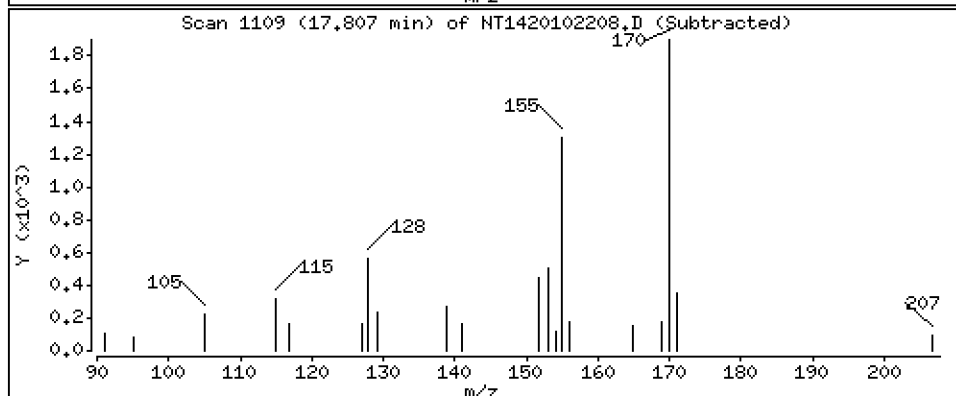
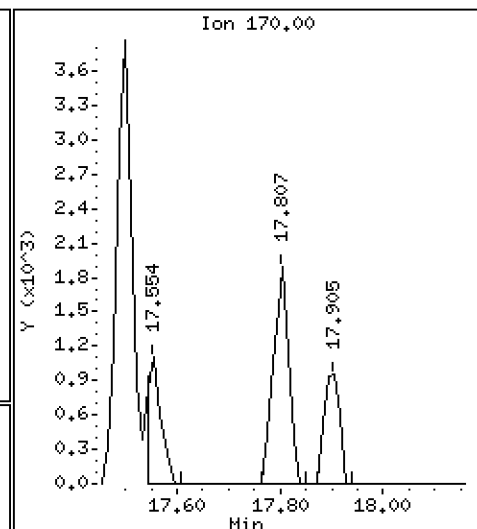
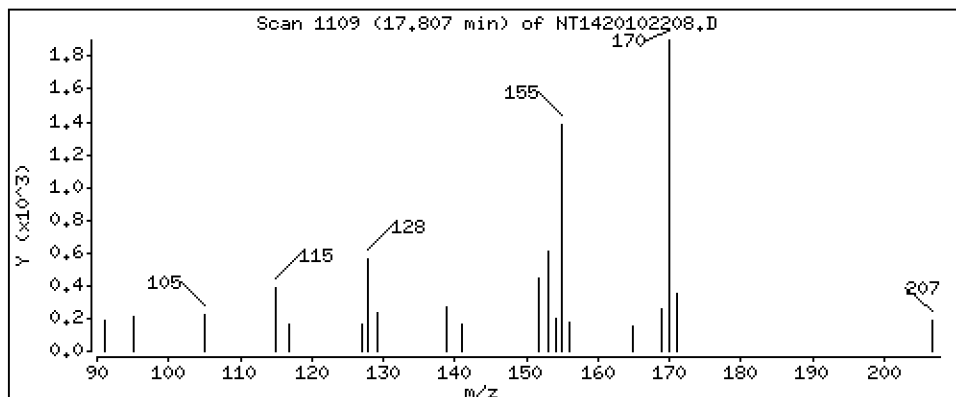
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

24 1,6,7-Trimethylnaphthalene

Concentration: 0,6167 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

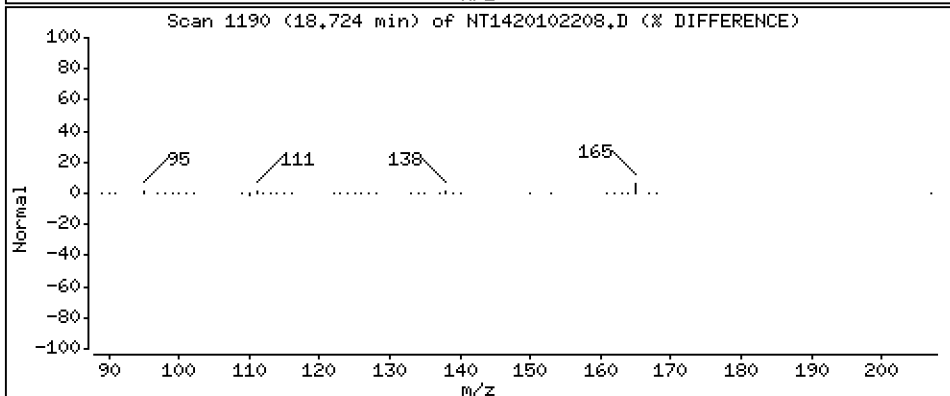
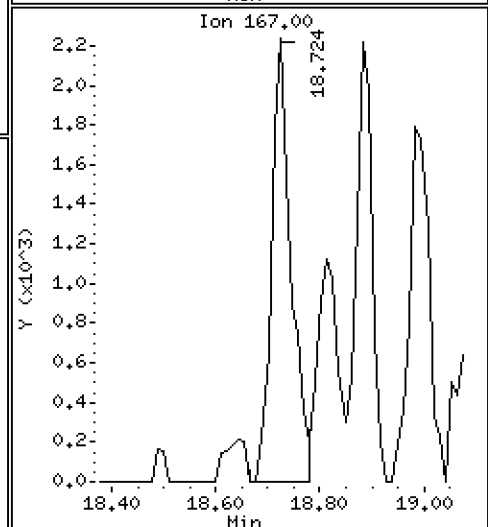
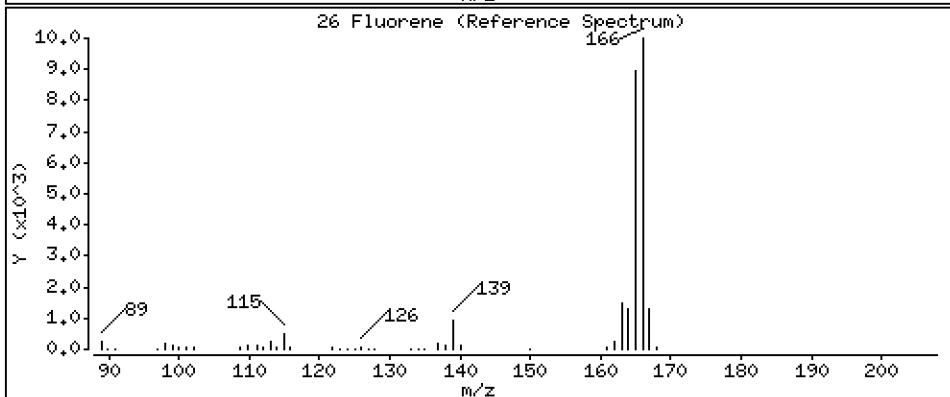
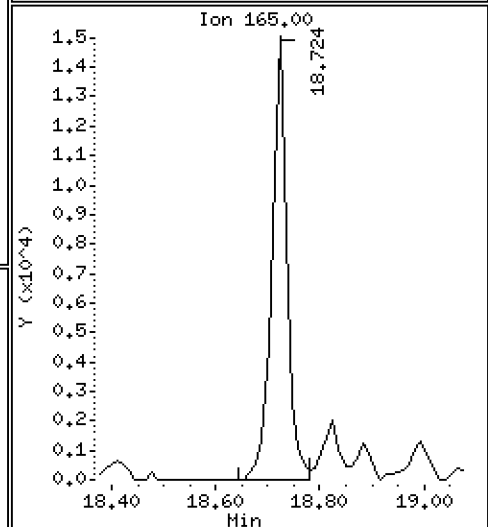
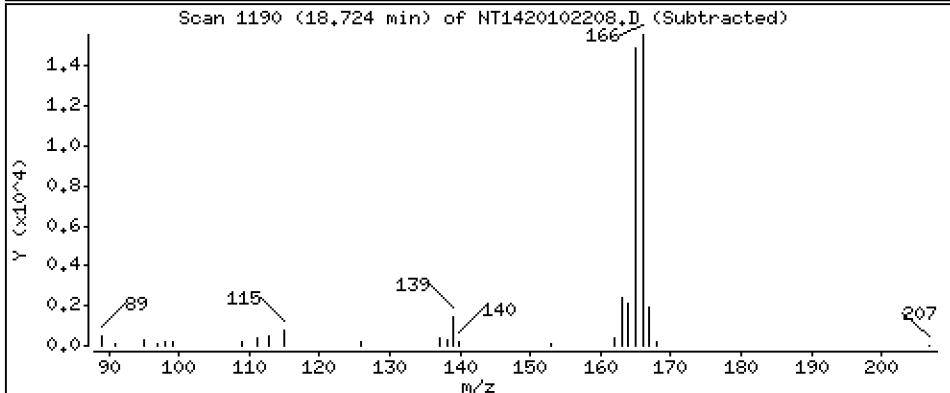
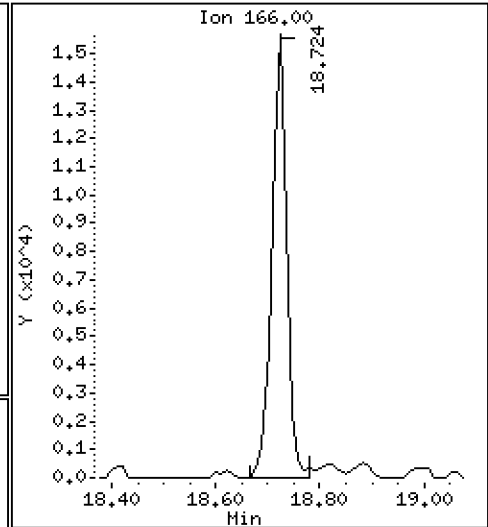
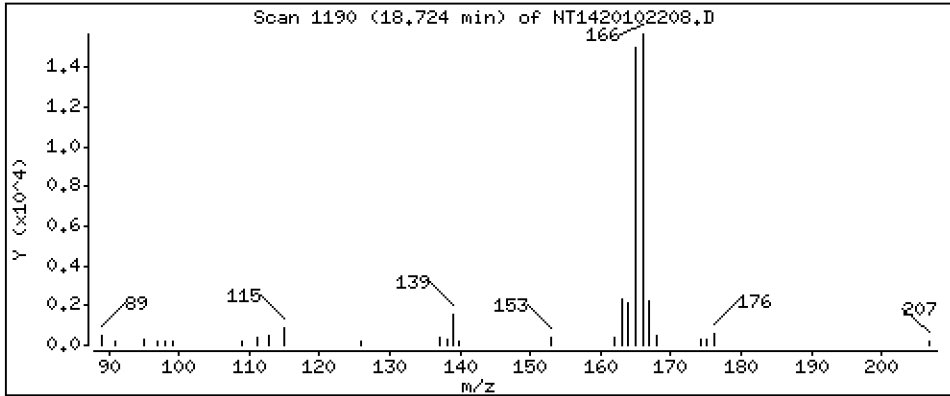
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 3,783 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

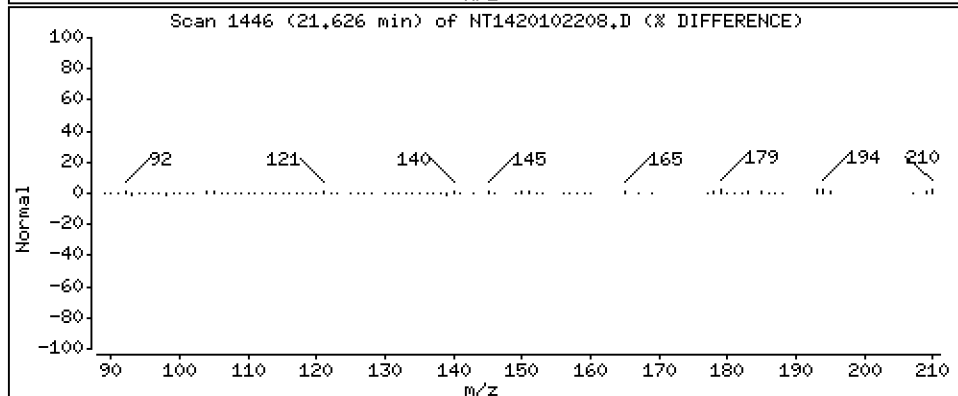
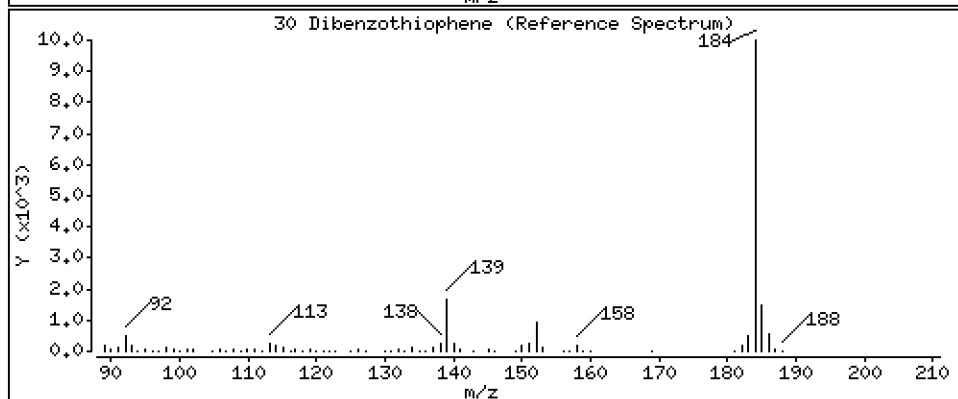
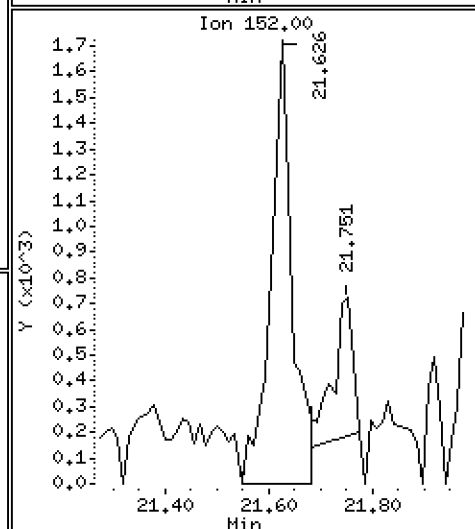
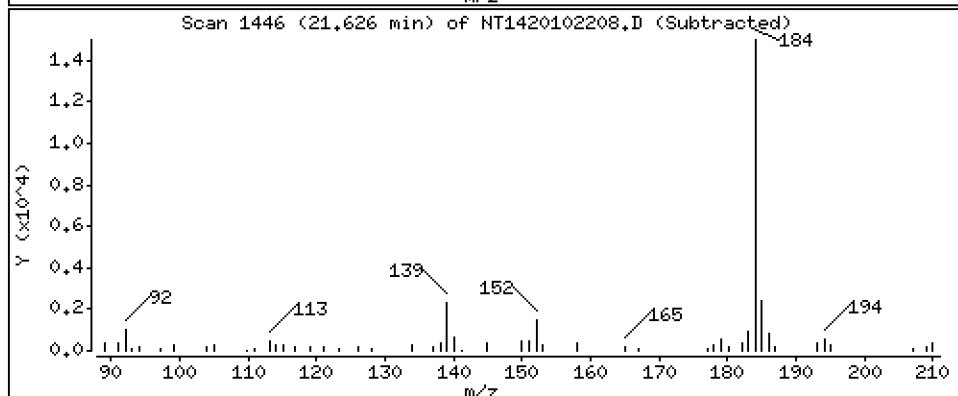
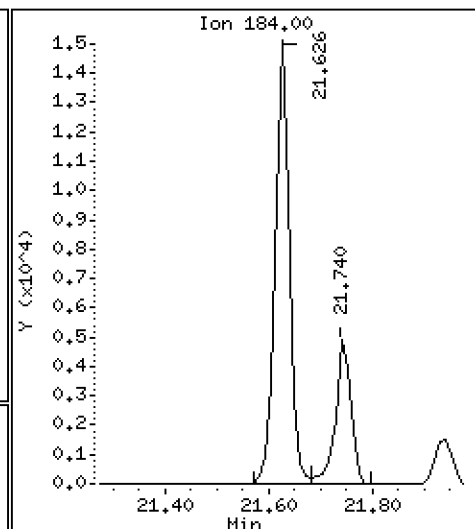
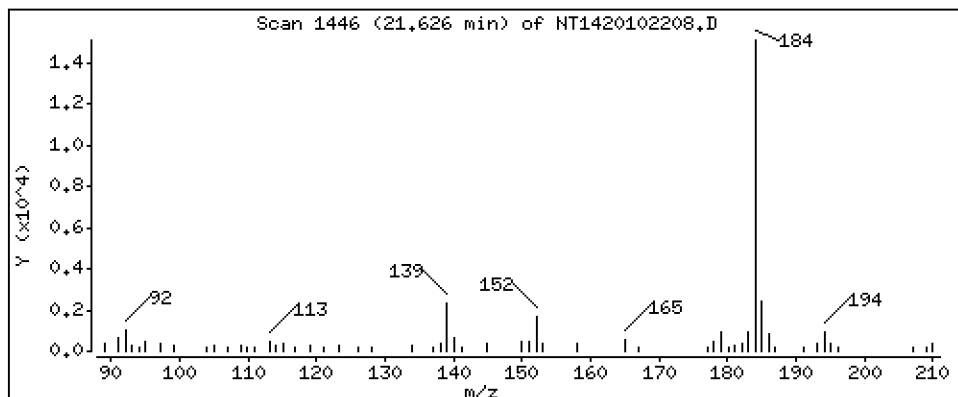
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Dibenzothiophene

Concentration: 2,473 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

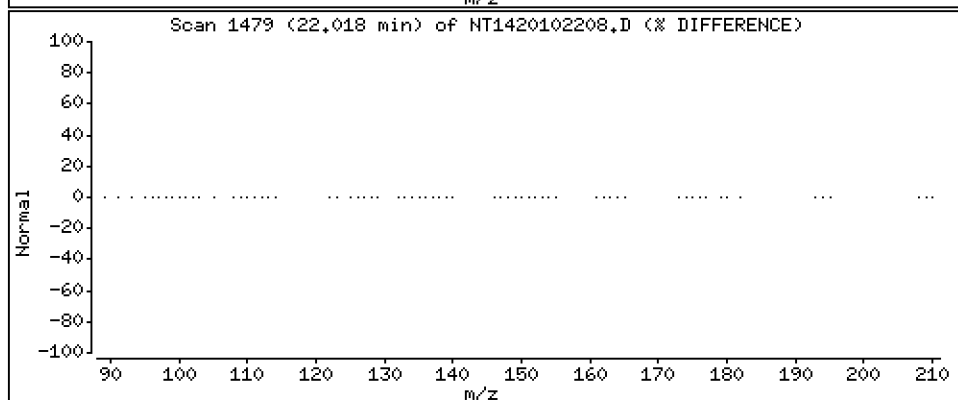
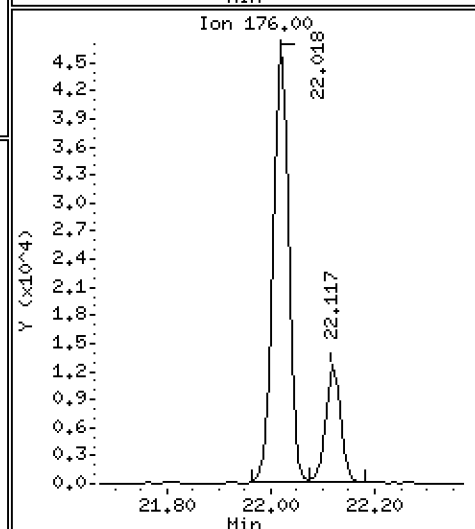
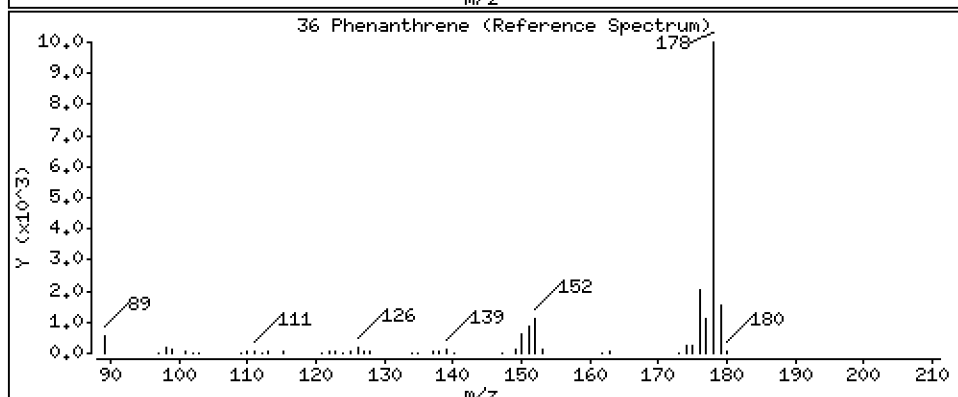
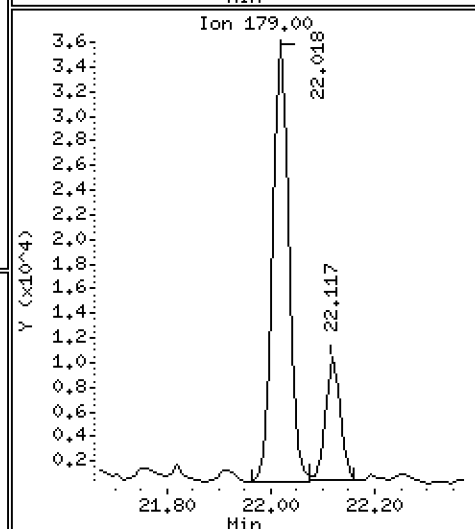
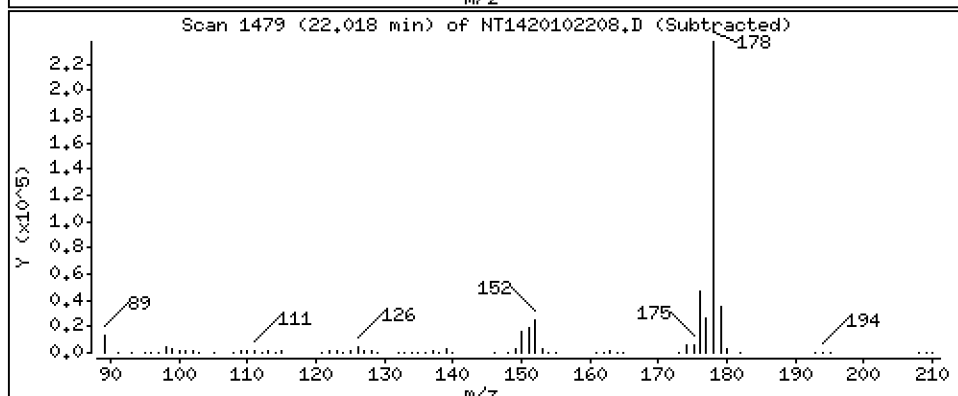
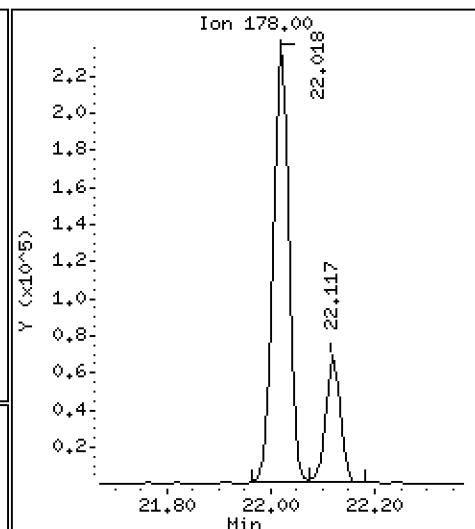
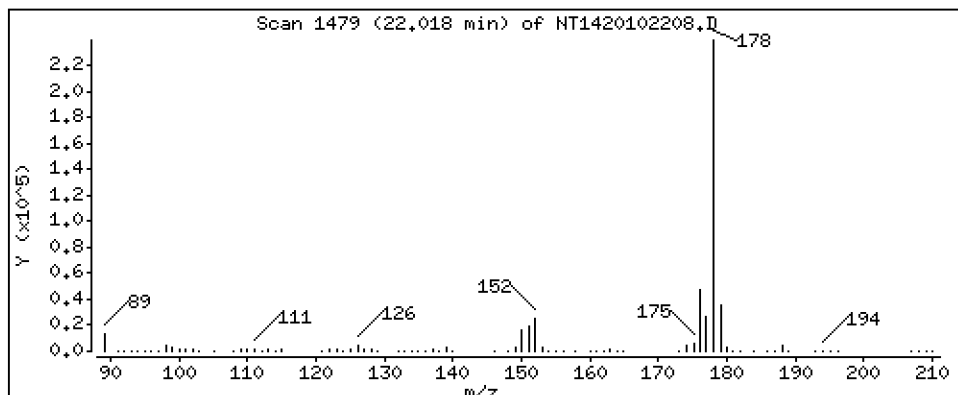
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

36 Phenanthrene

Concentration: 39,53 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

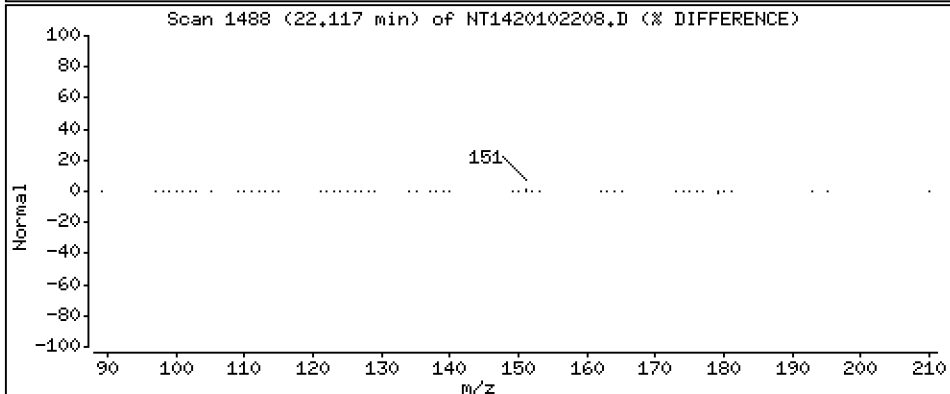
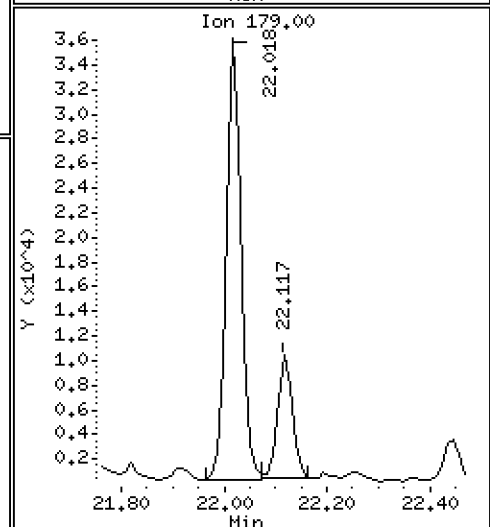
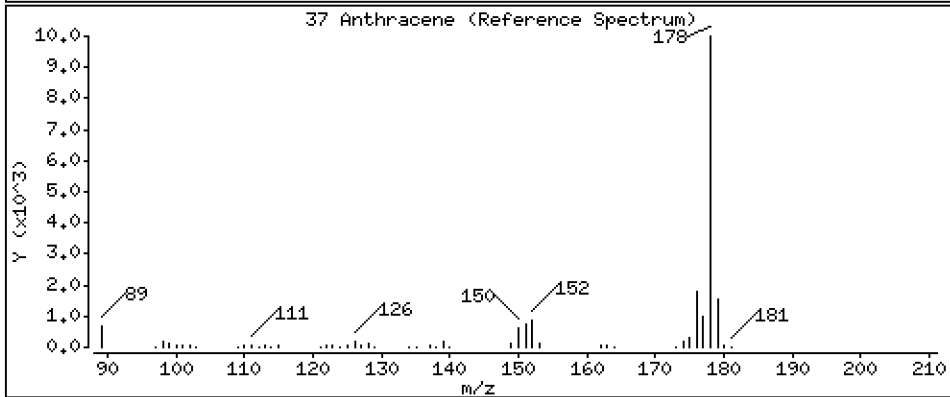
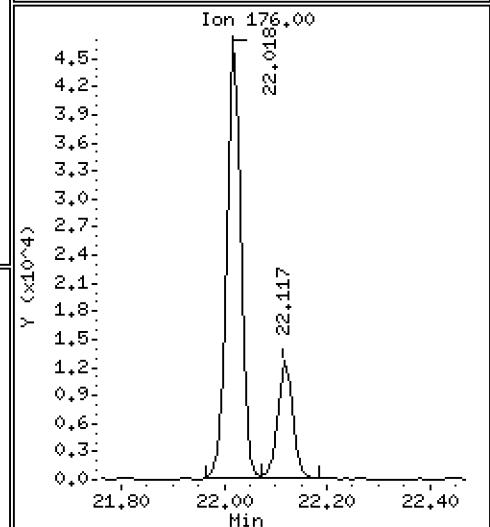
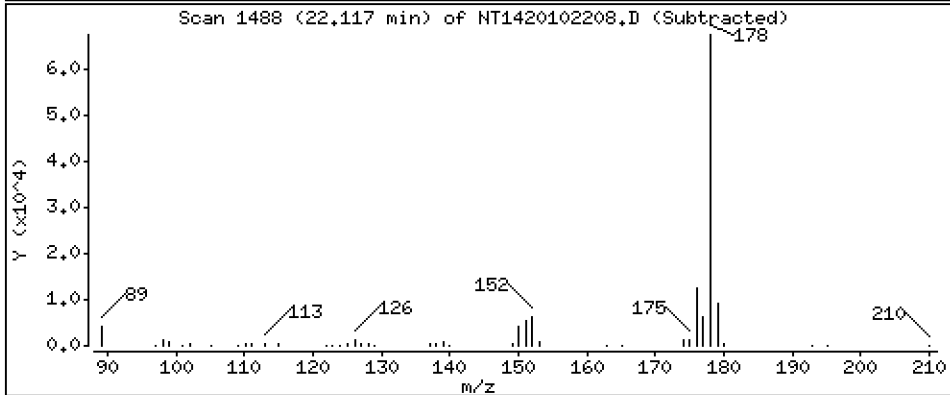
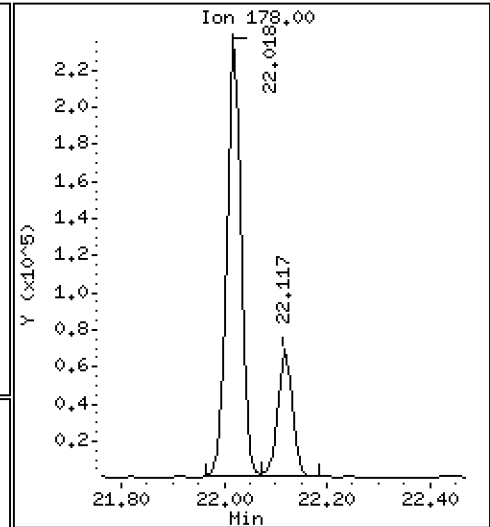
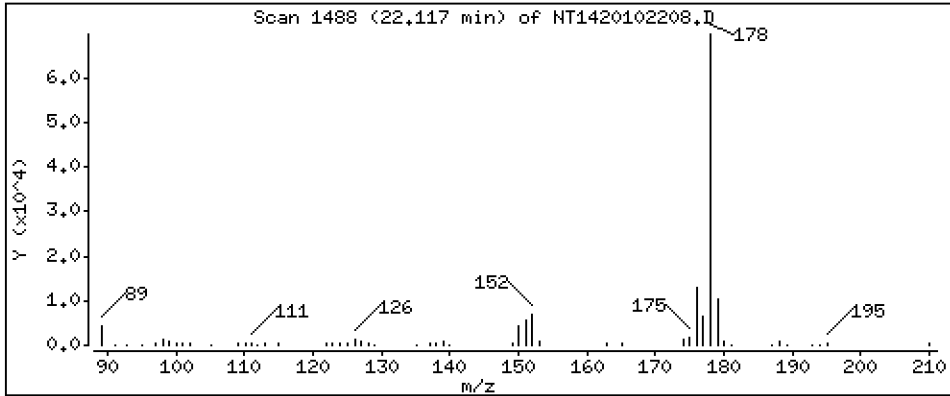
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 10,90 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

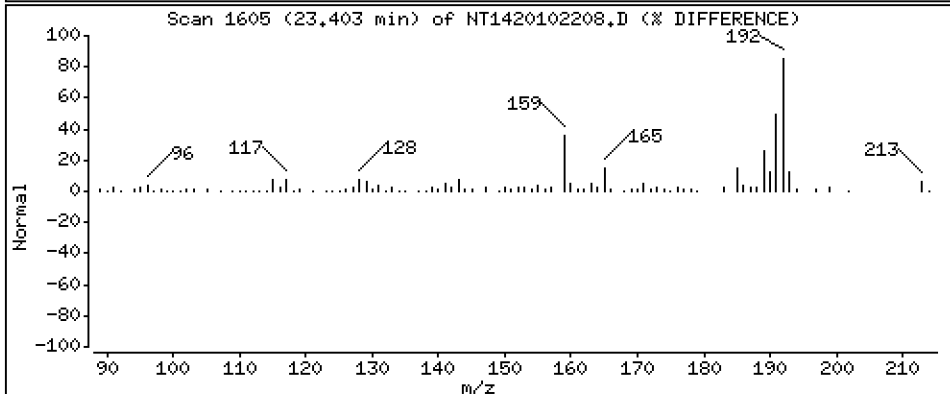
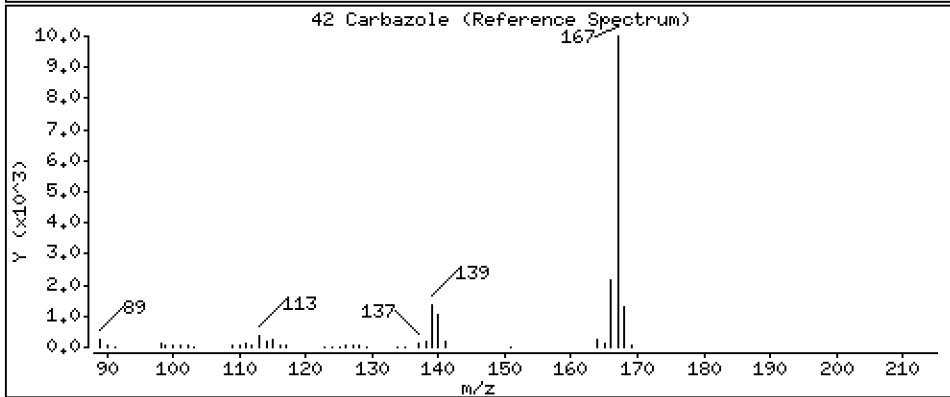
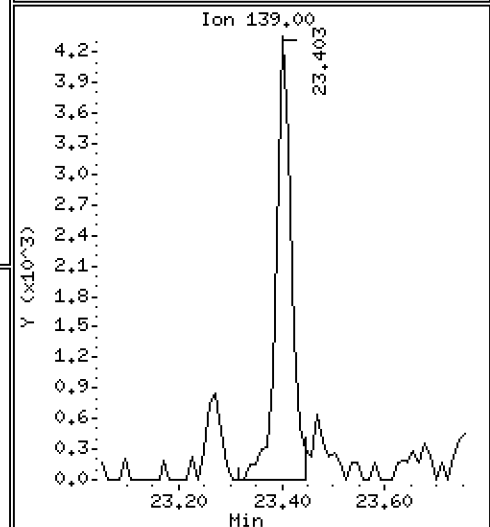
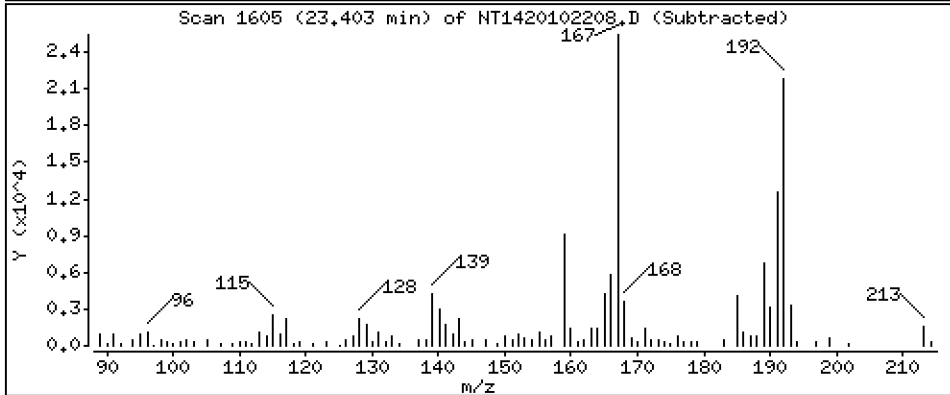
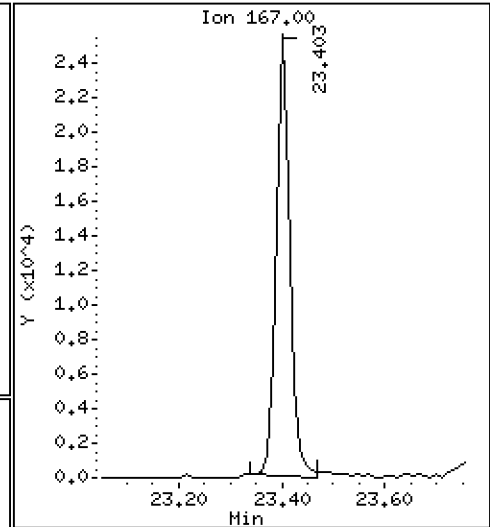
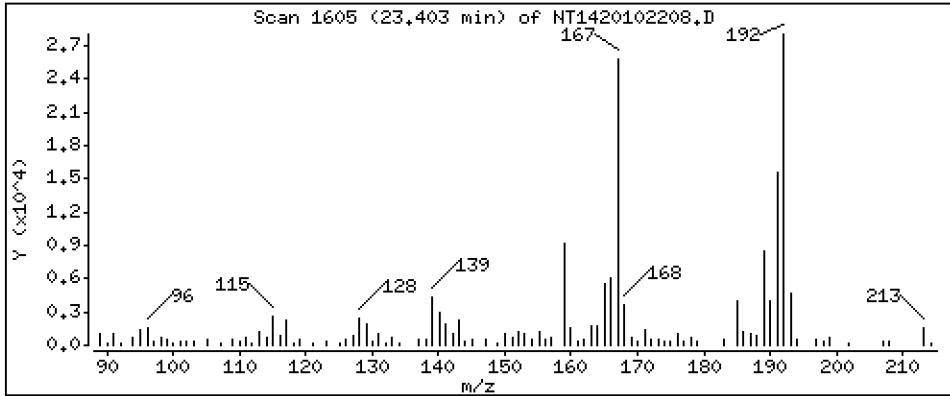
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 4,850 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

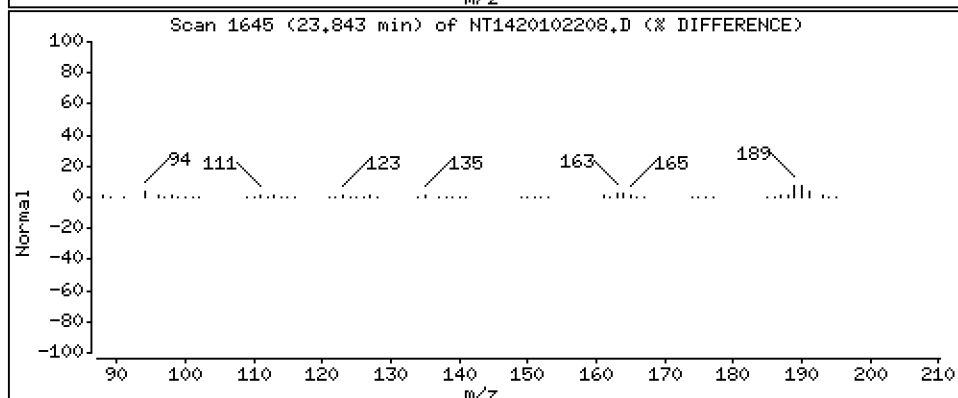
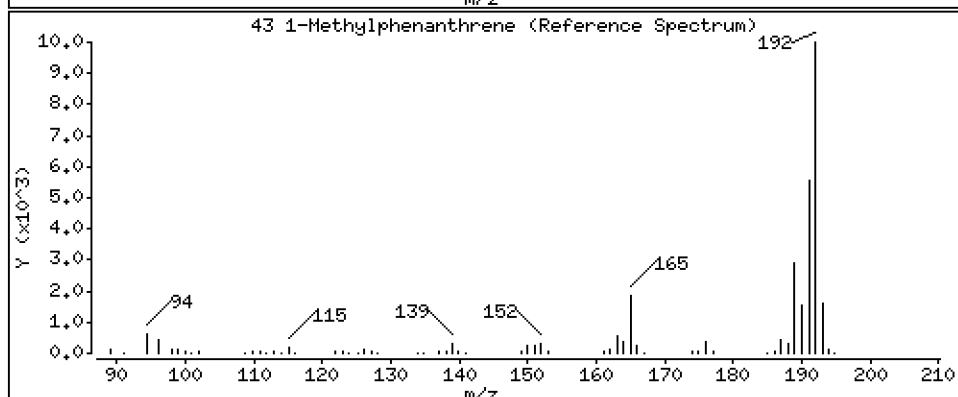
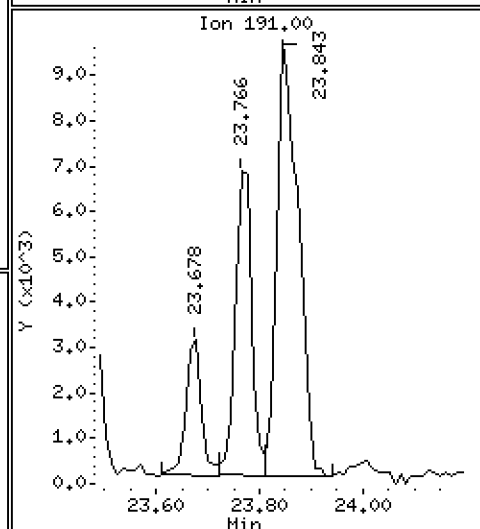
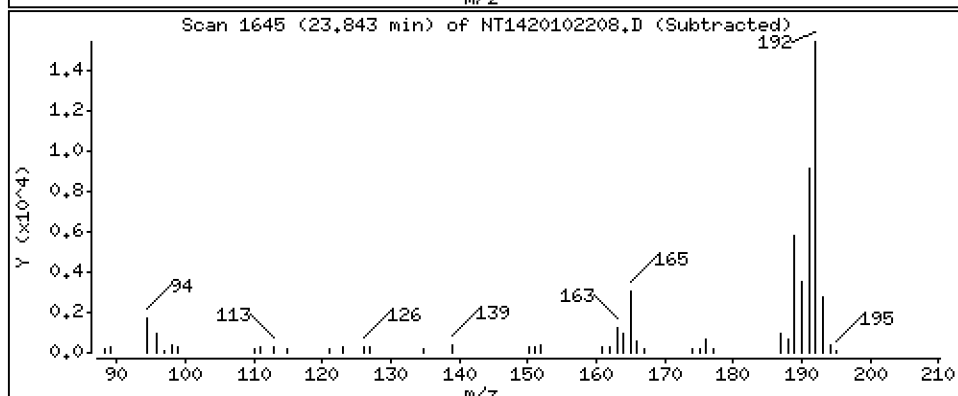
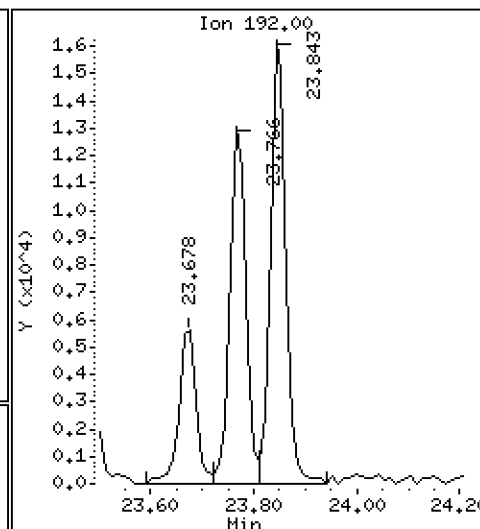
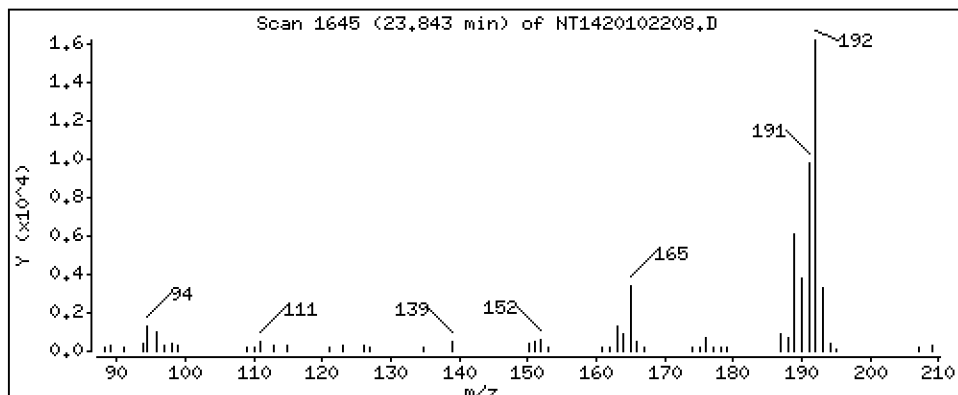
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

43 1-Methylphenanthrene

Concentration: 3,949 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

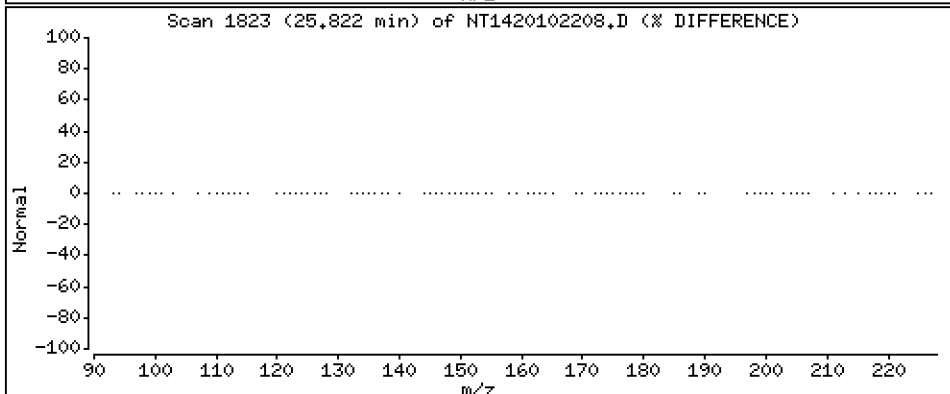
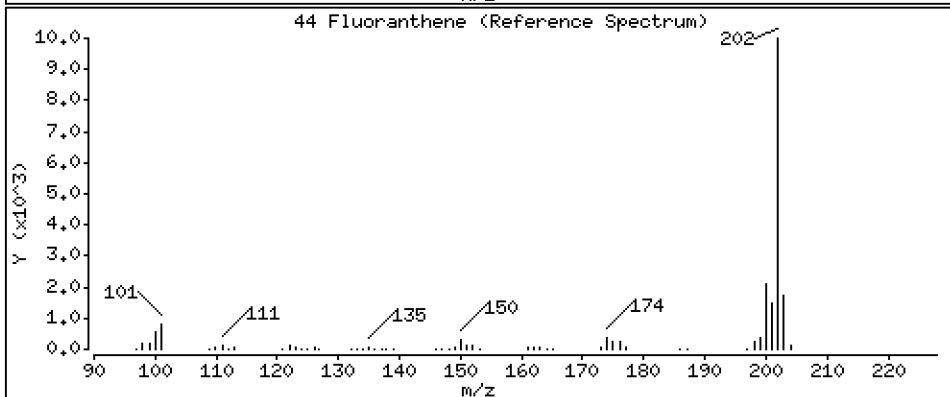
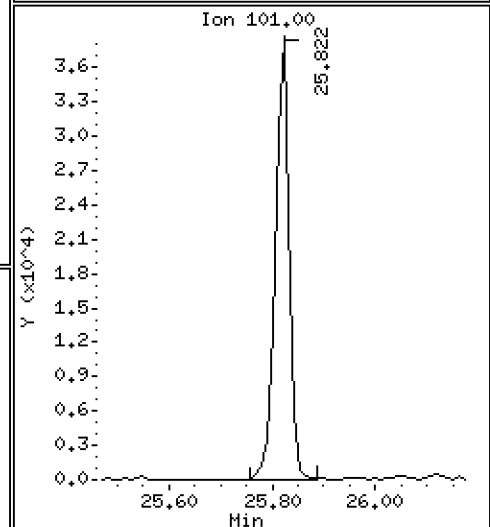
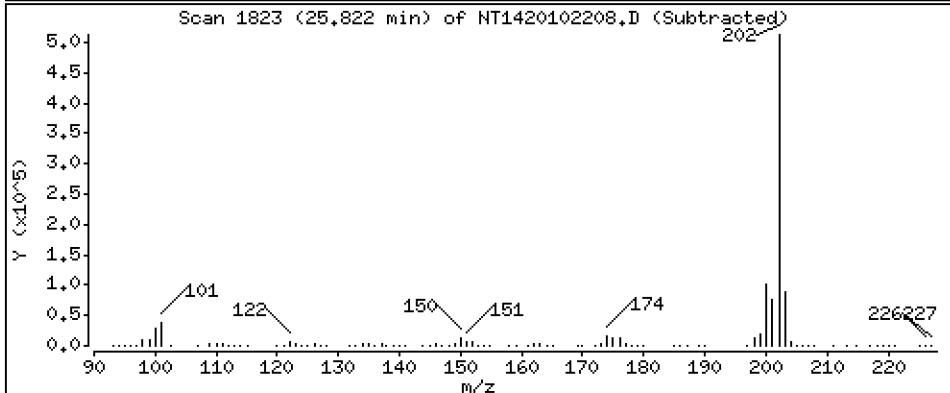
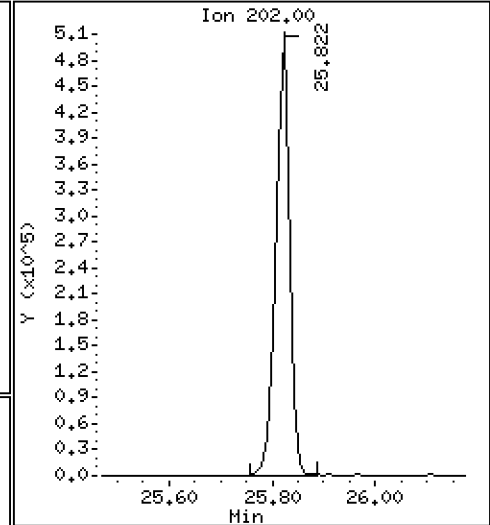
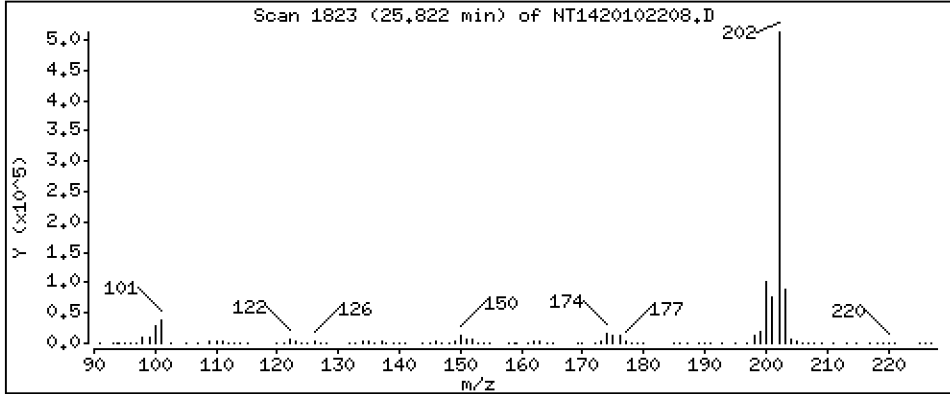
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 74,27 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

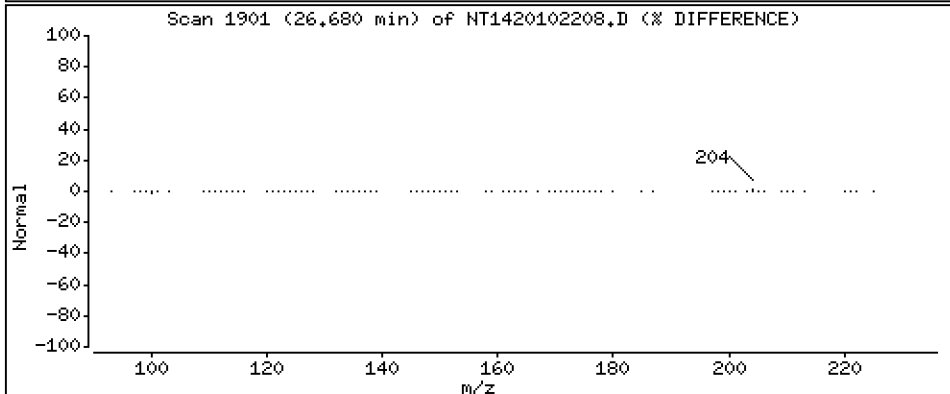
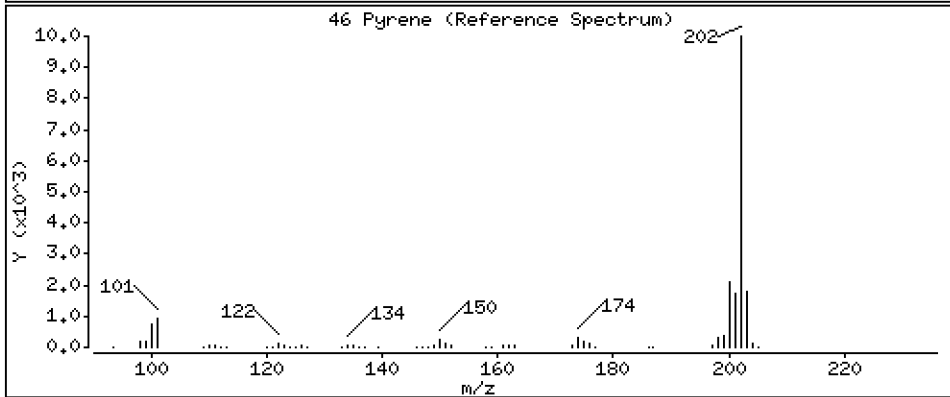
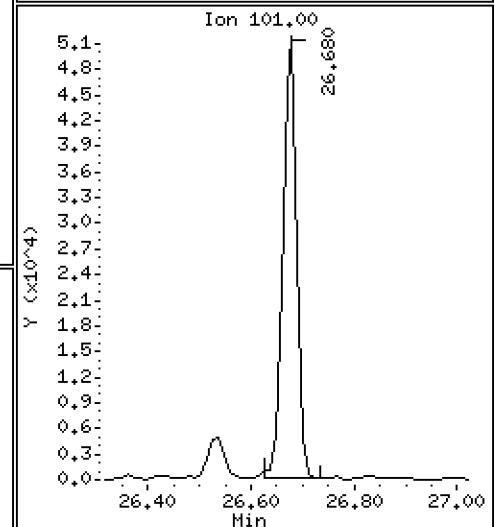
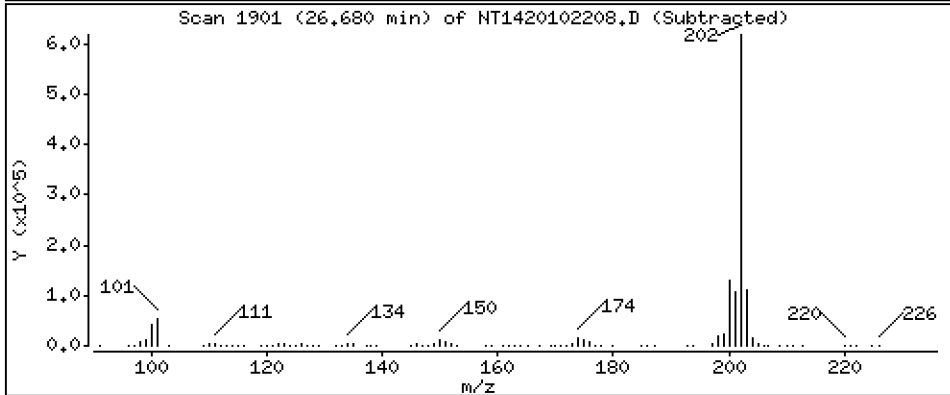
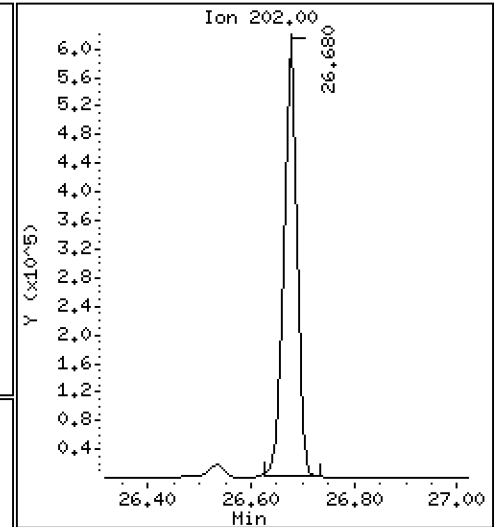
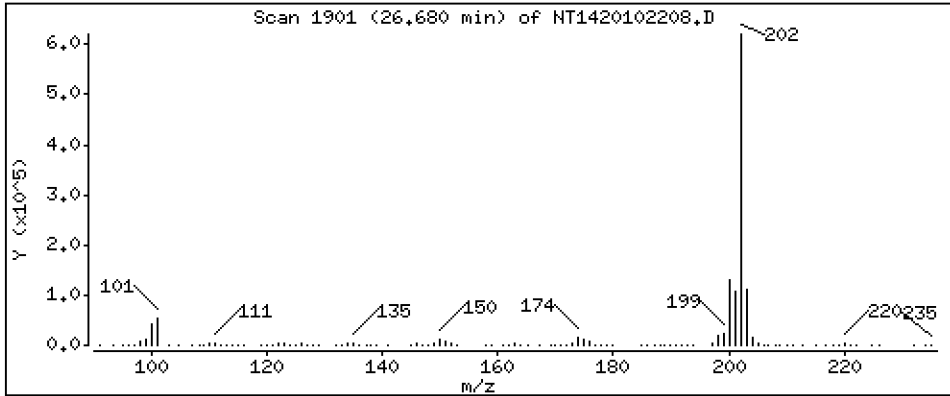
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 81,96 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

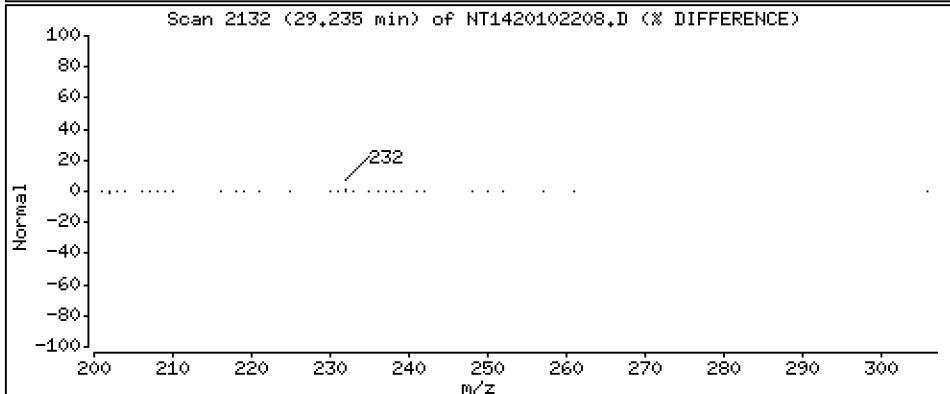
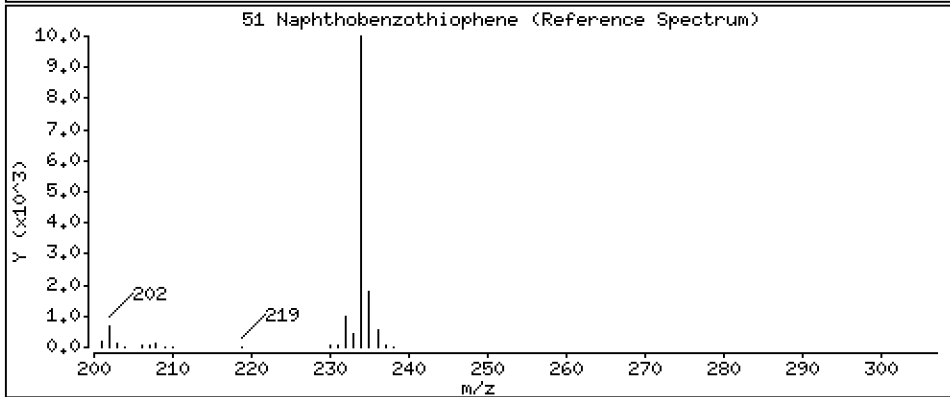
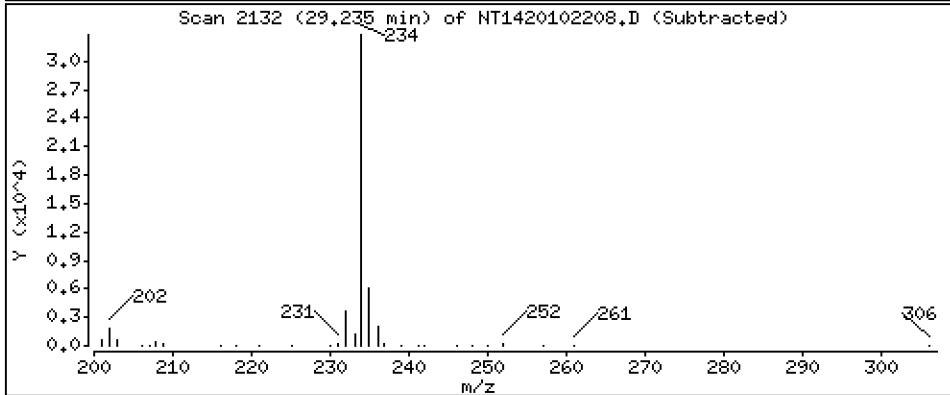
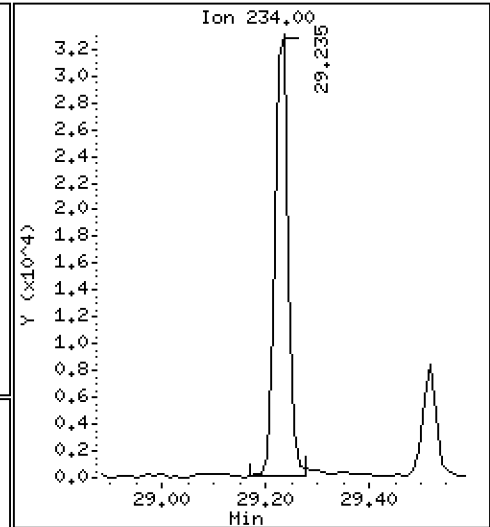
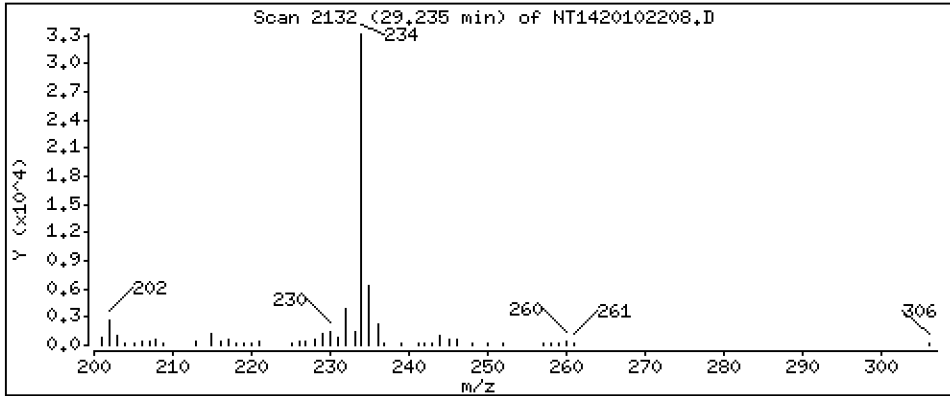
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

51 Naphthobenzothiophene

Concentration: 4,783 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

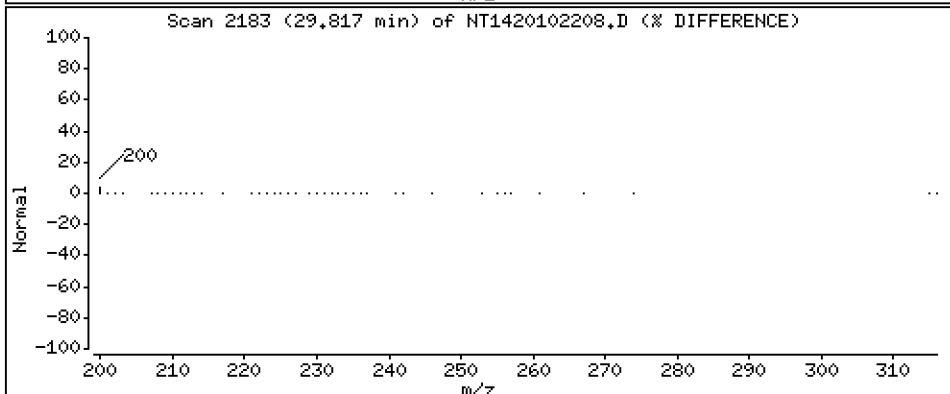
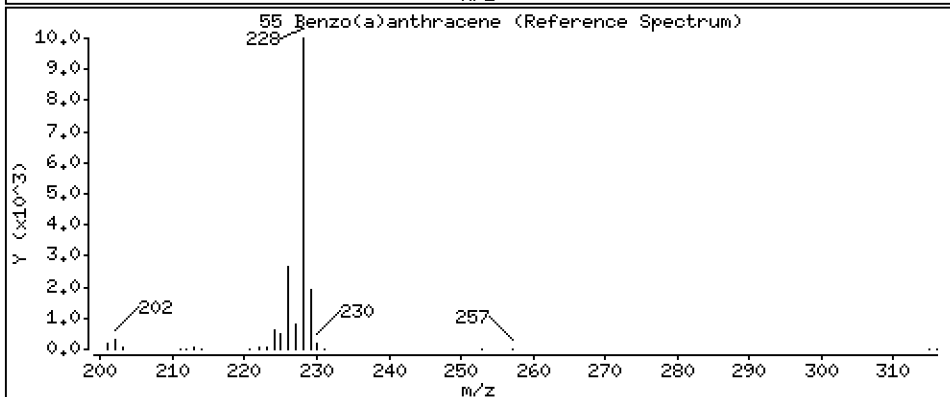
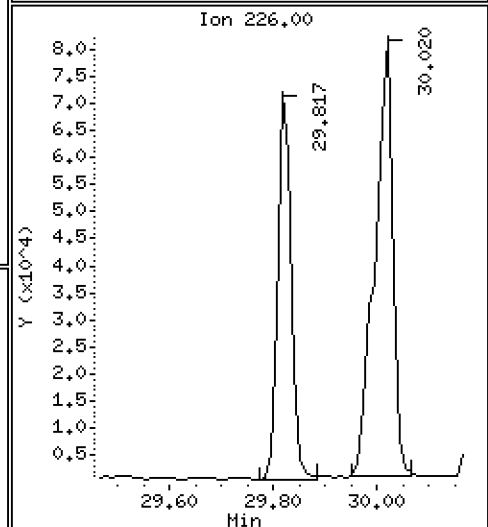
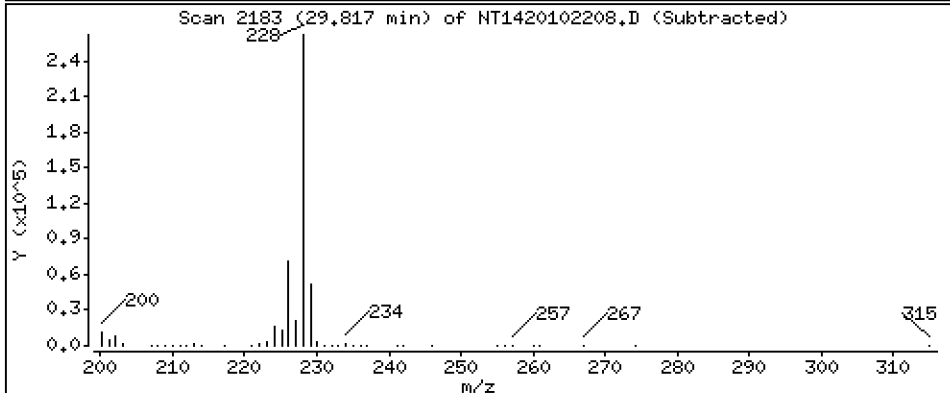
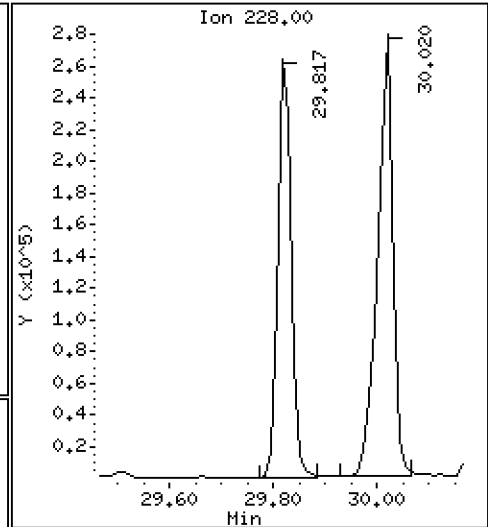
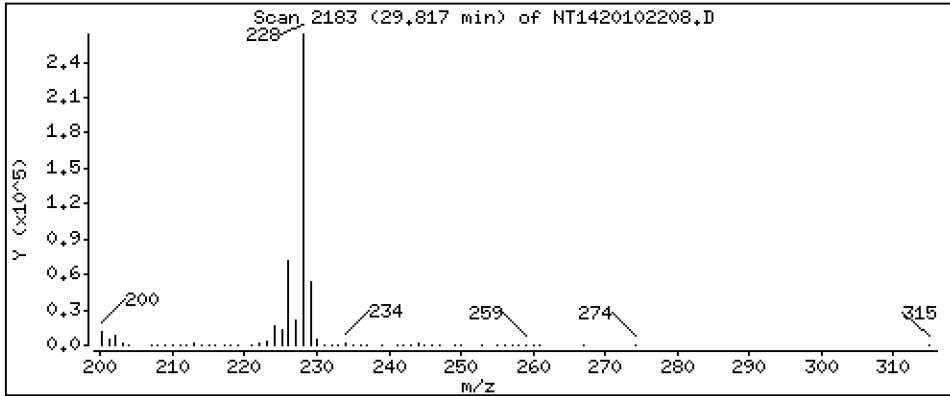
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 34,34 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

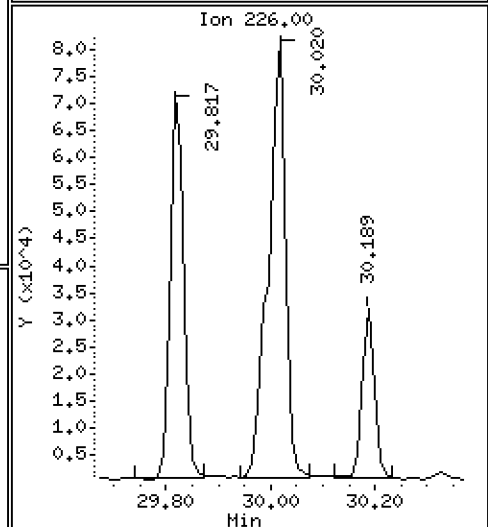
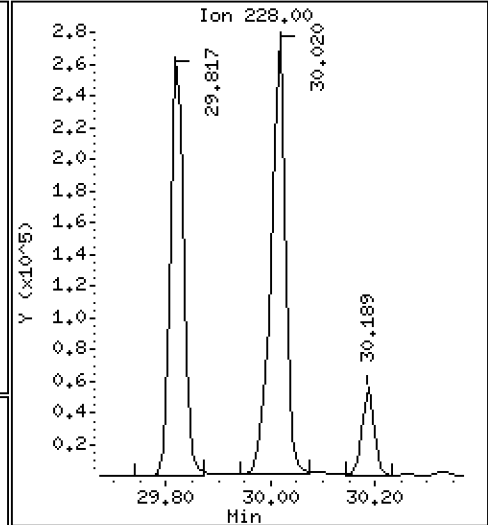
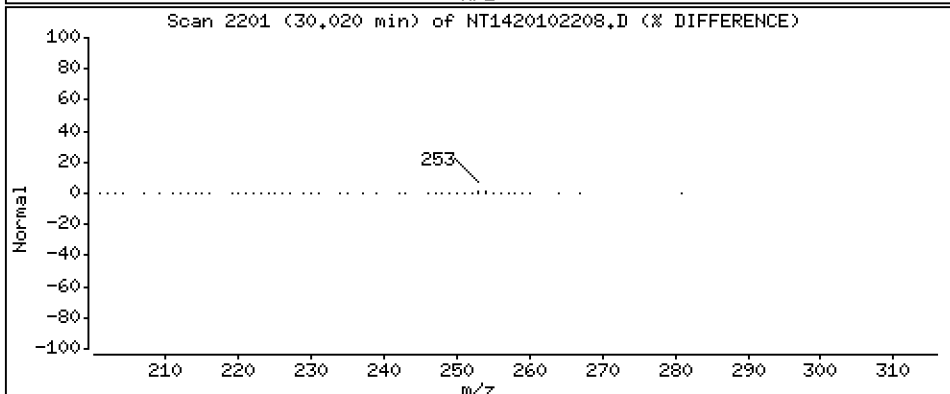
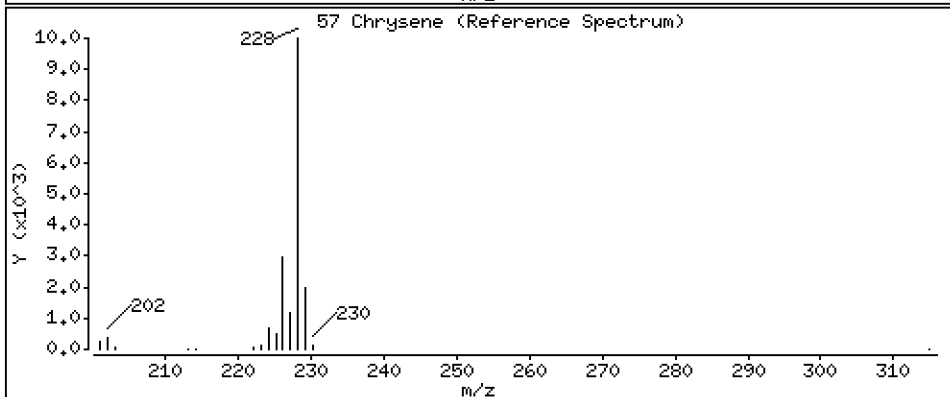
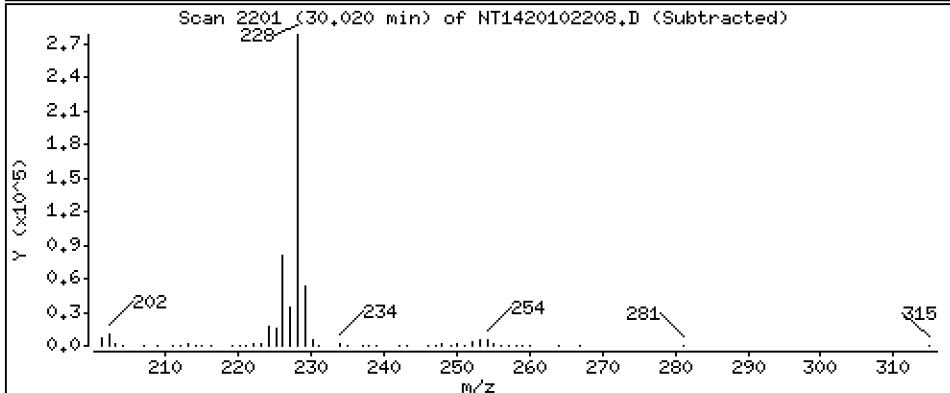
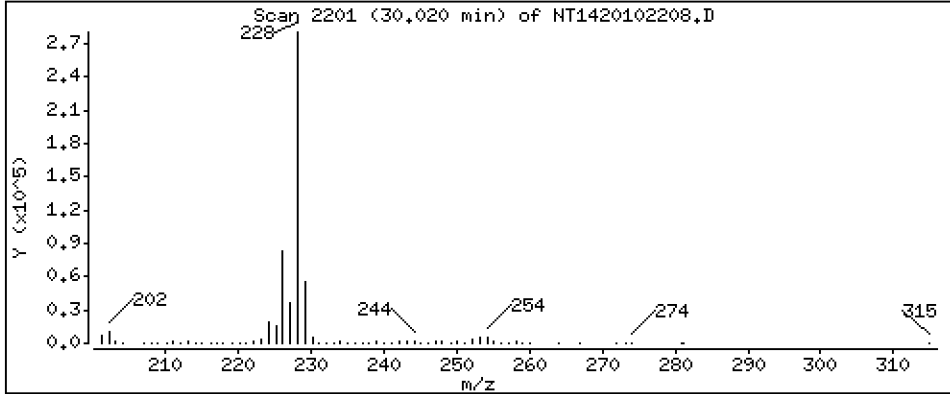
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 39,18 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

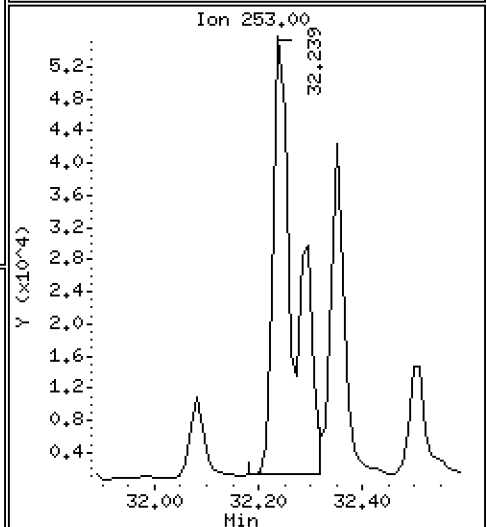
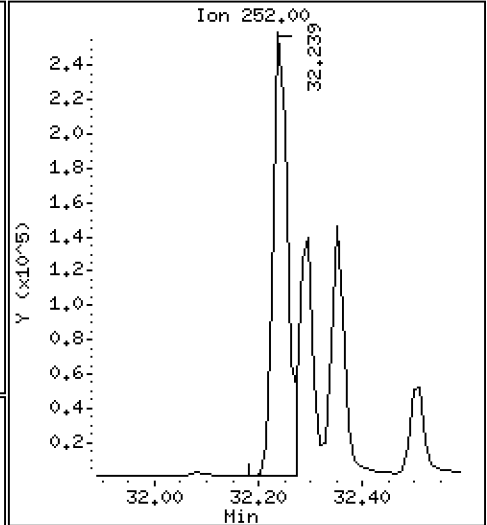
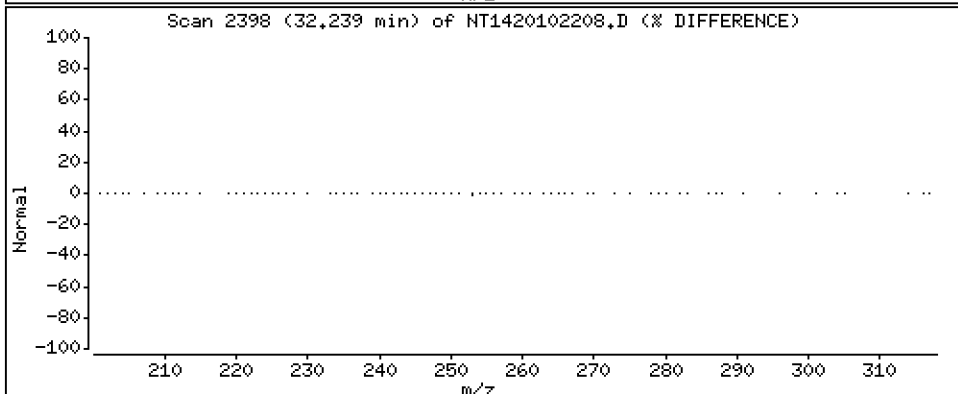
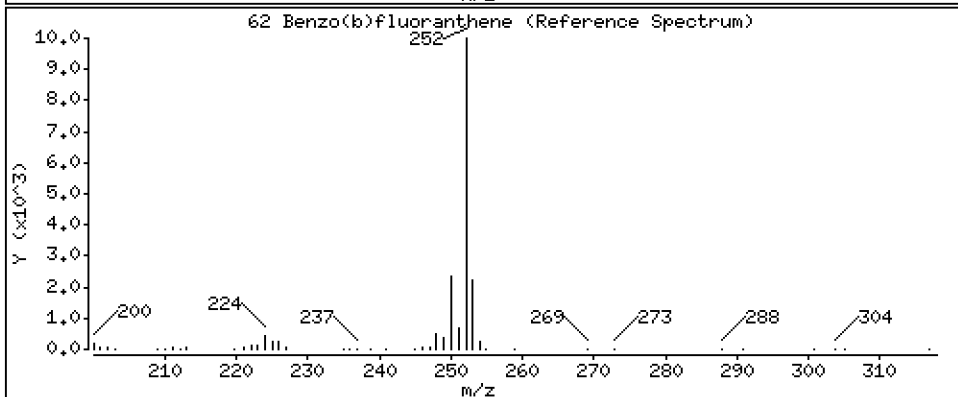
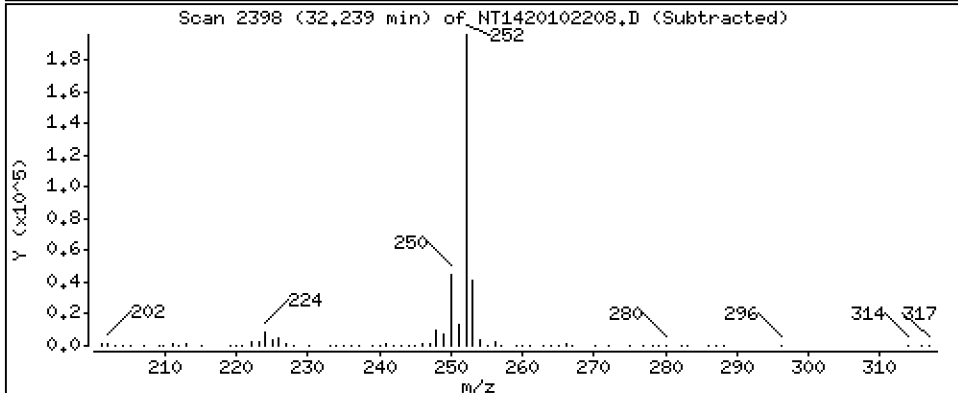
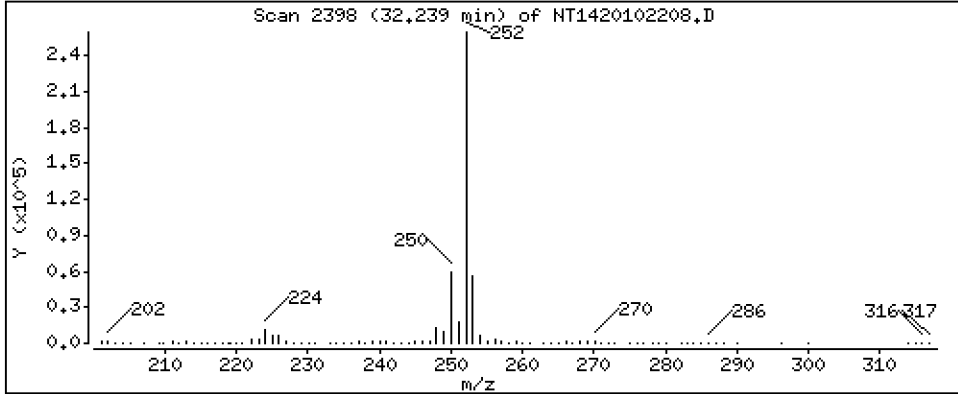
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 30,32 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

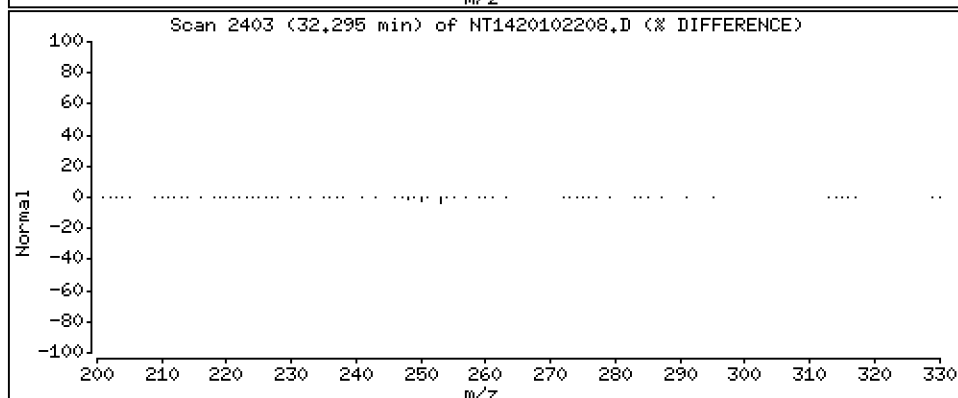
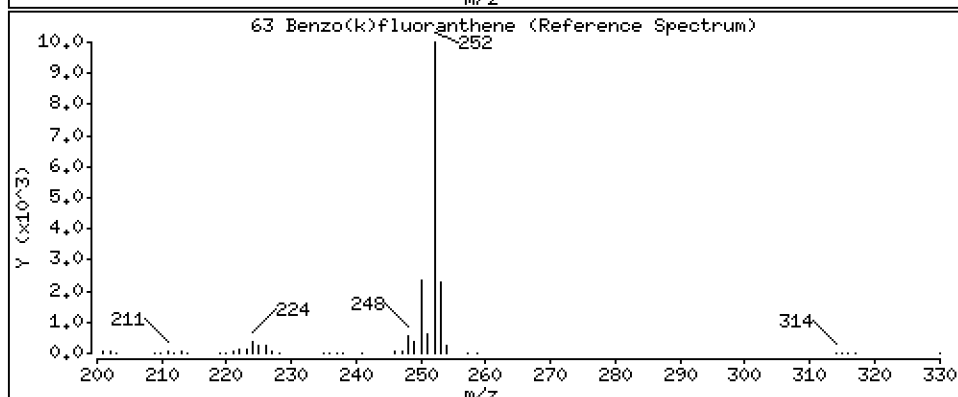
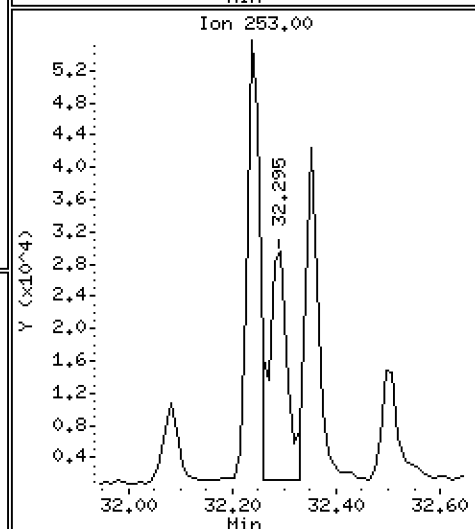
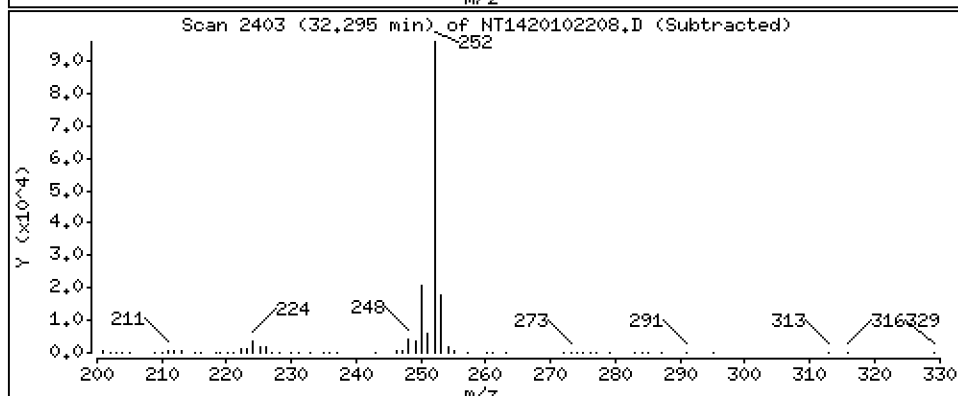
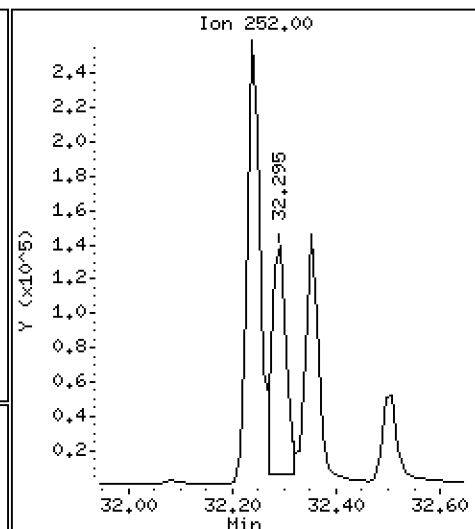
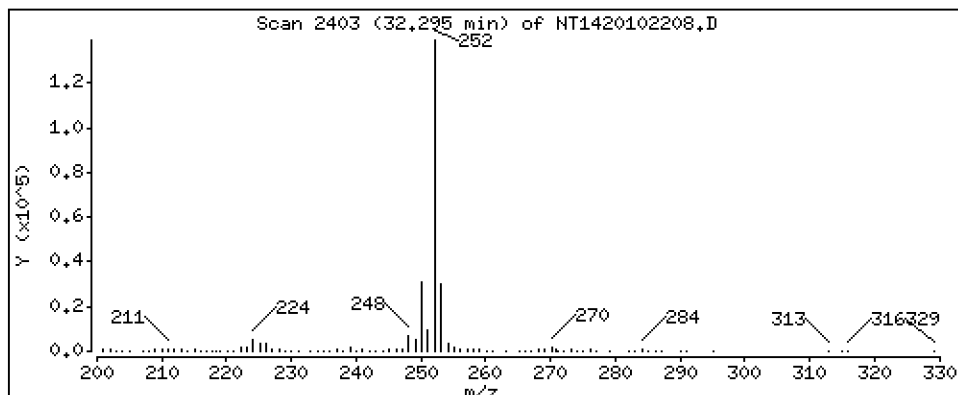
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 15,40 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

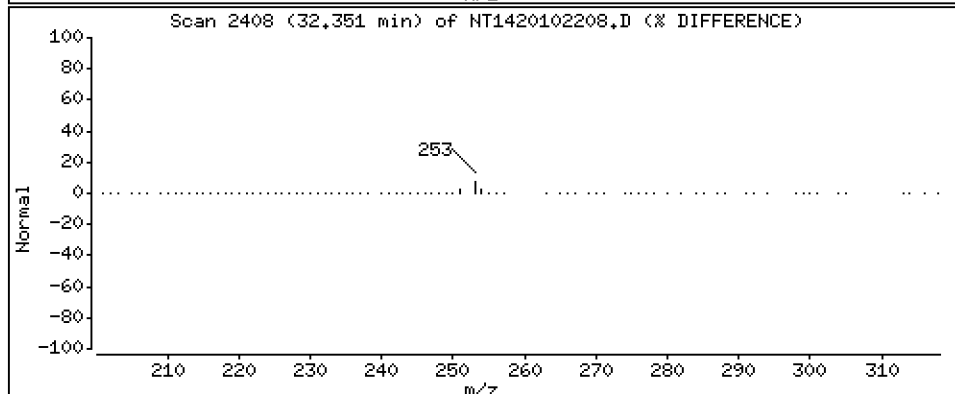
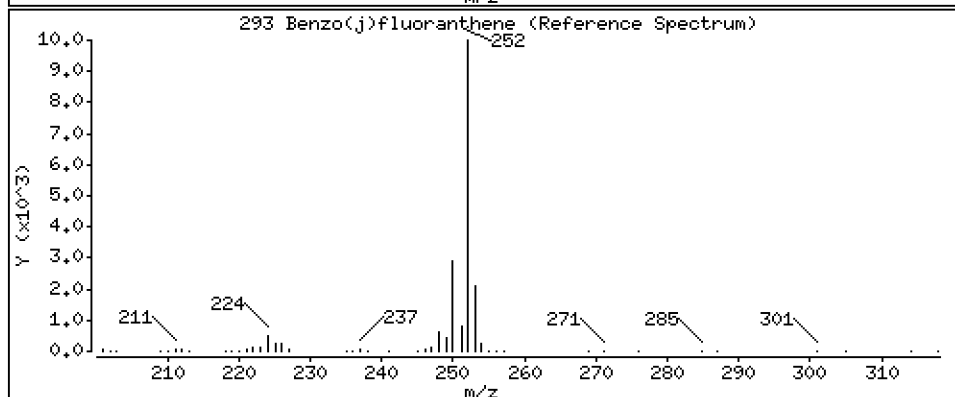
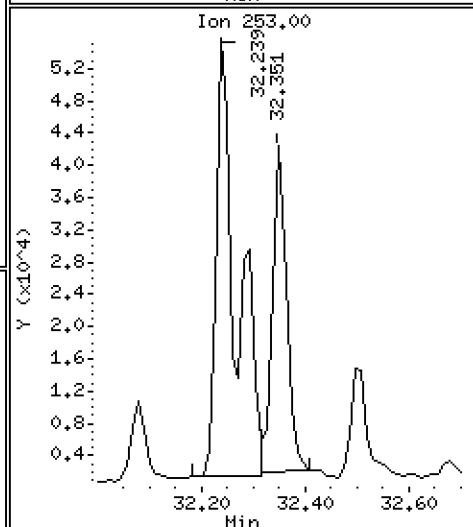
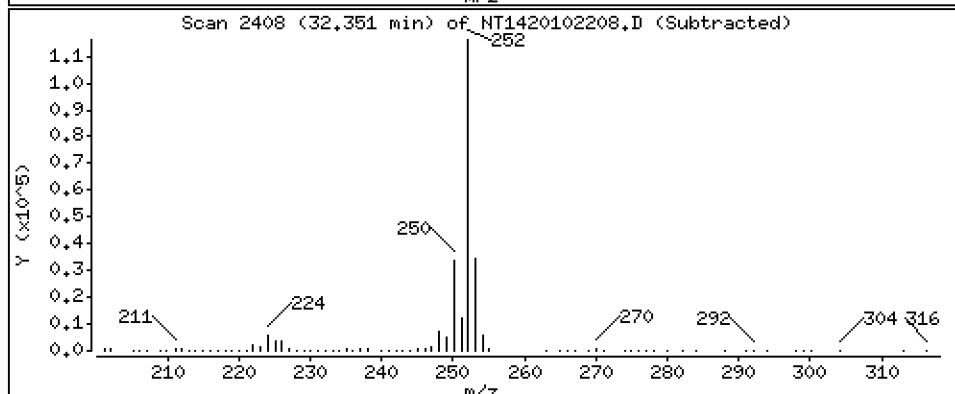
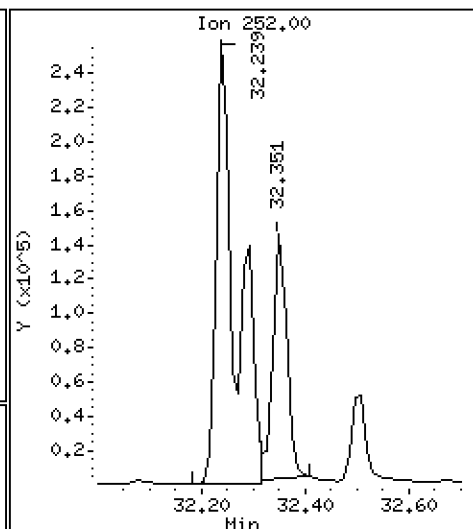
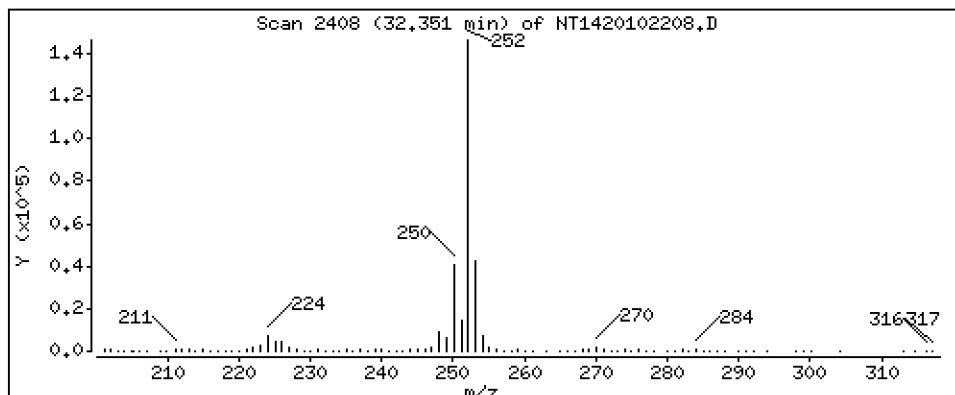
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

293 Benzo(j)fluoranthene

Concentration: 18,11 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

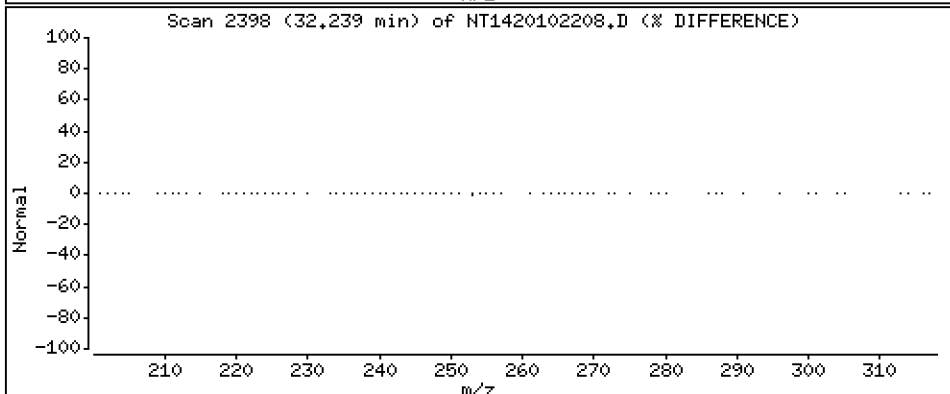
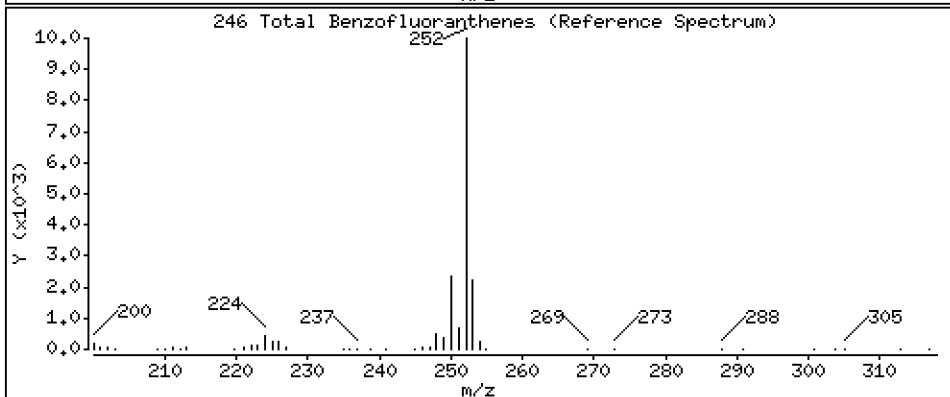
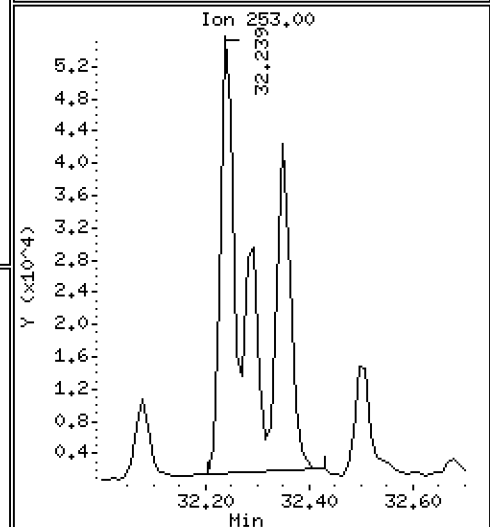
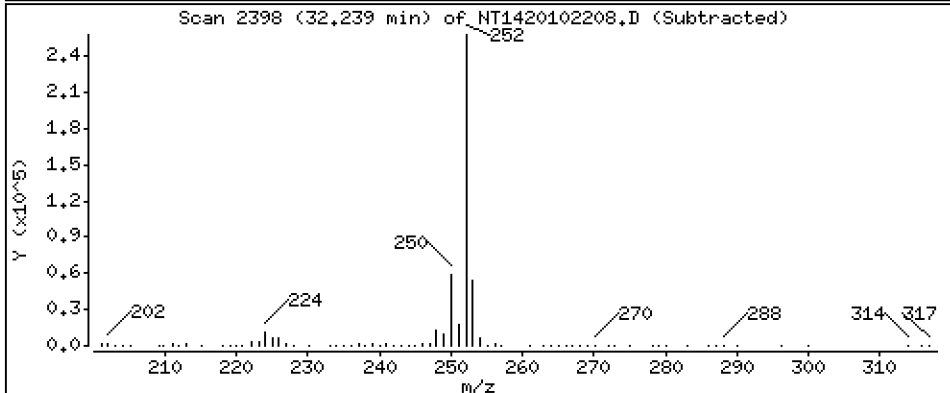
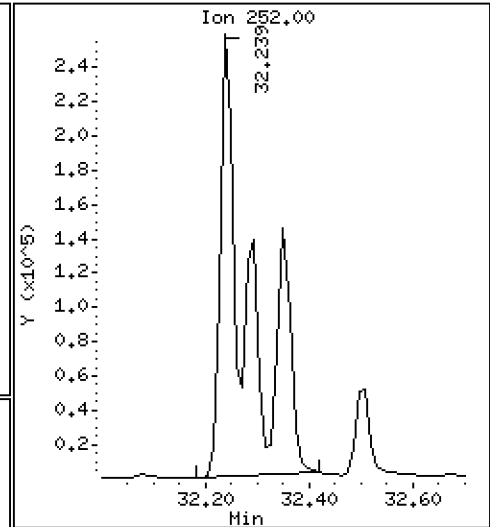
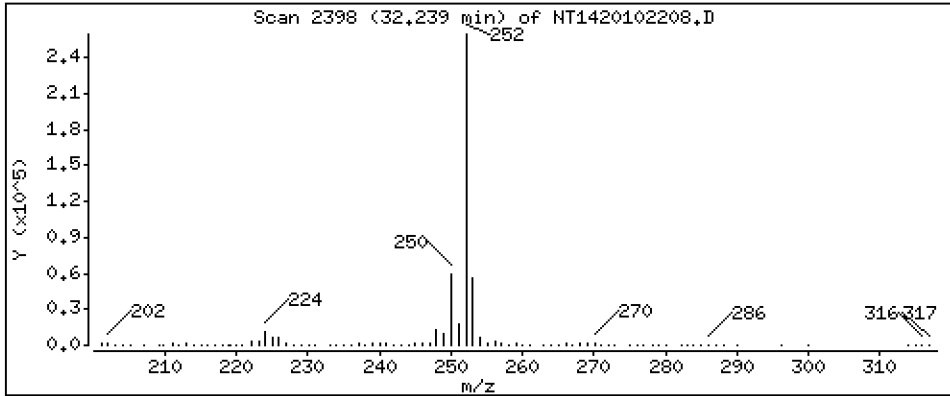
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 64,48 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

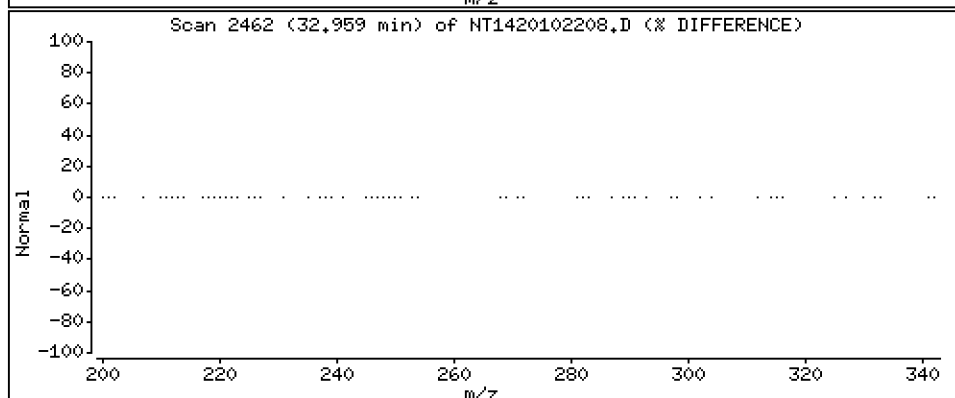
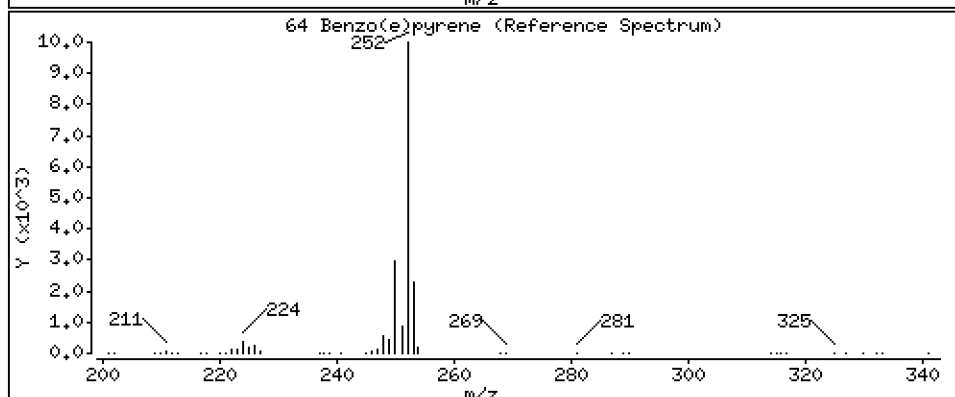
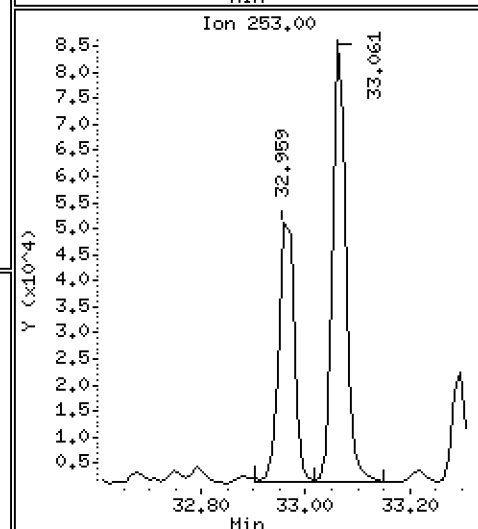
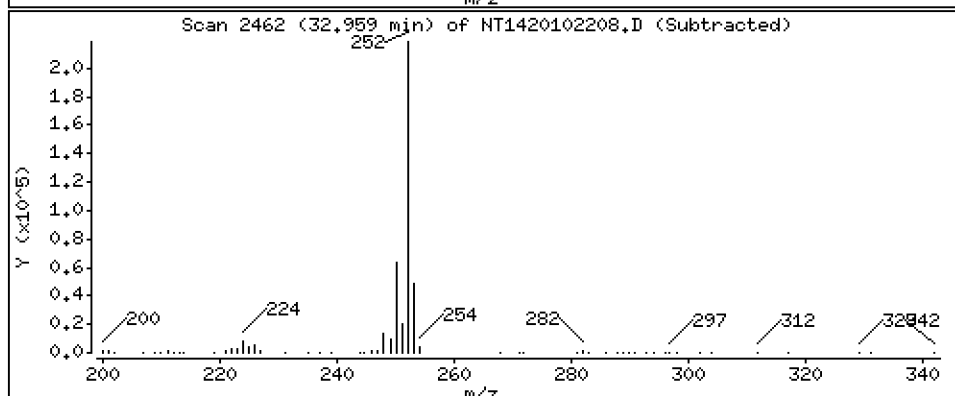
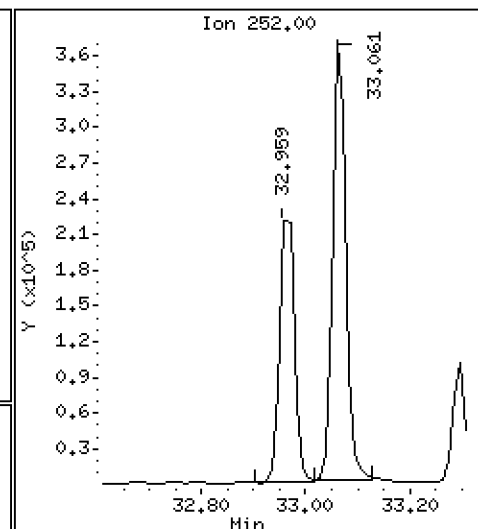
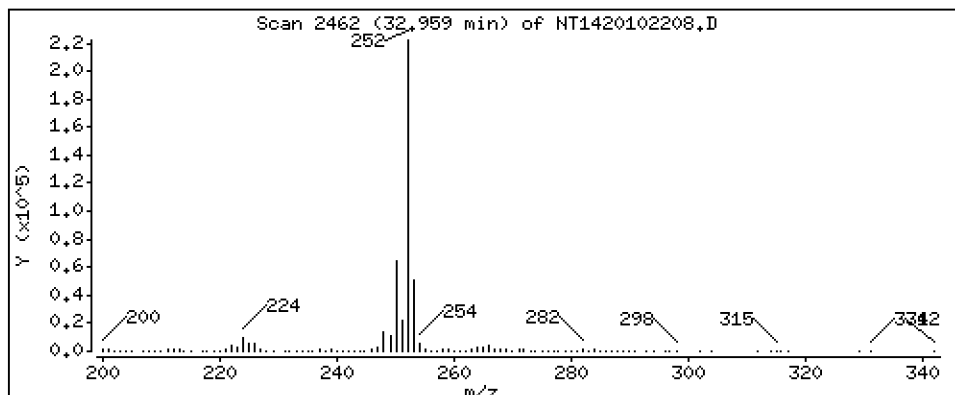
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

64 Benzo(e)pyrene

Concentration: 28,37 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

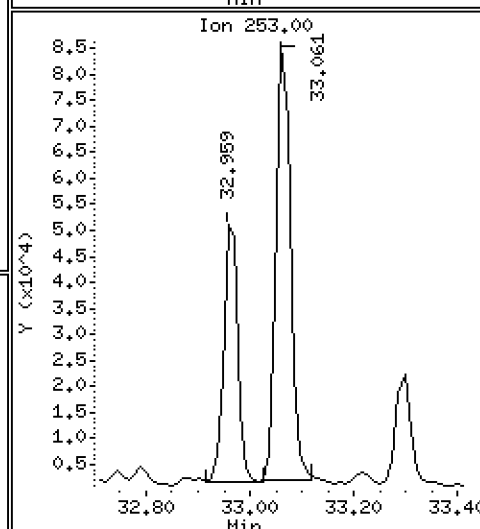
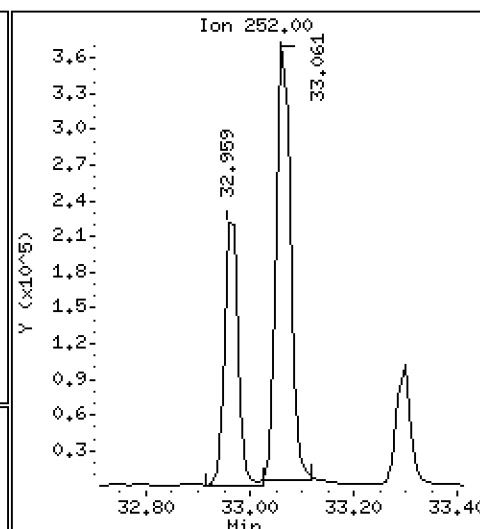
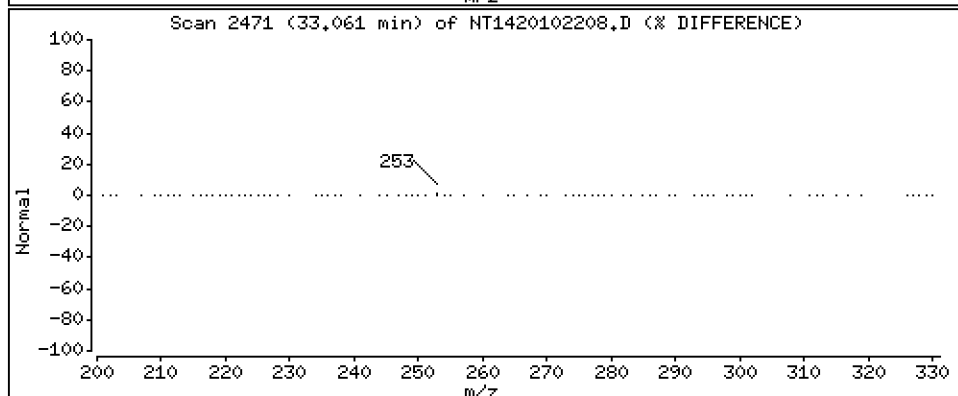
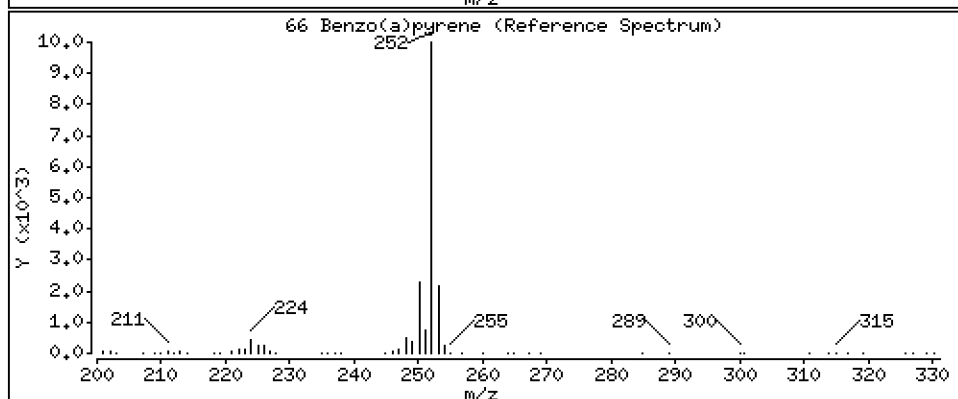
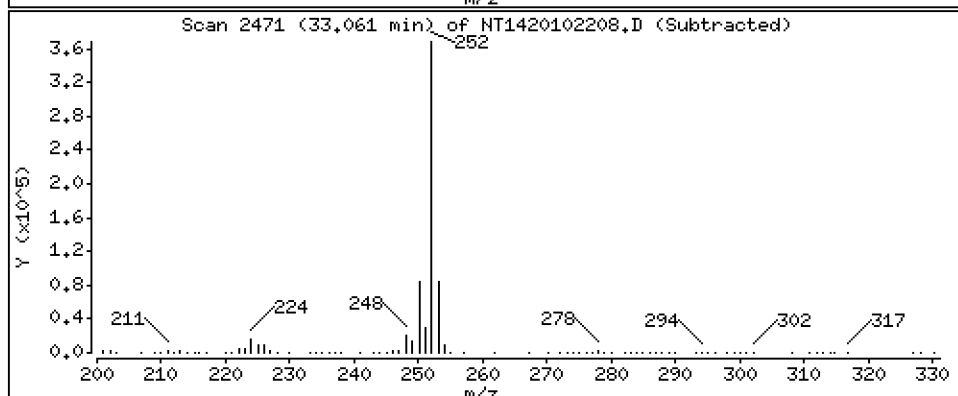
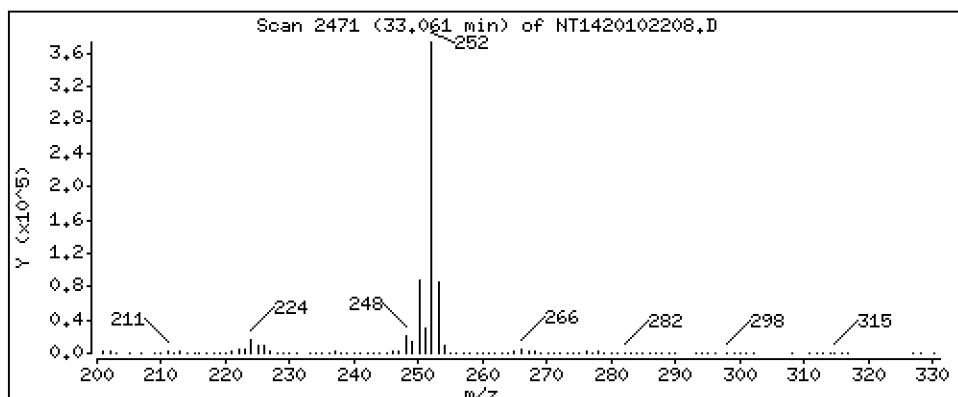
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 47,97 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

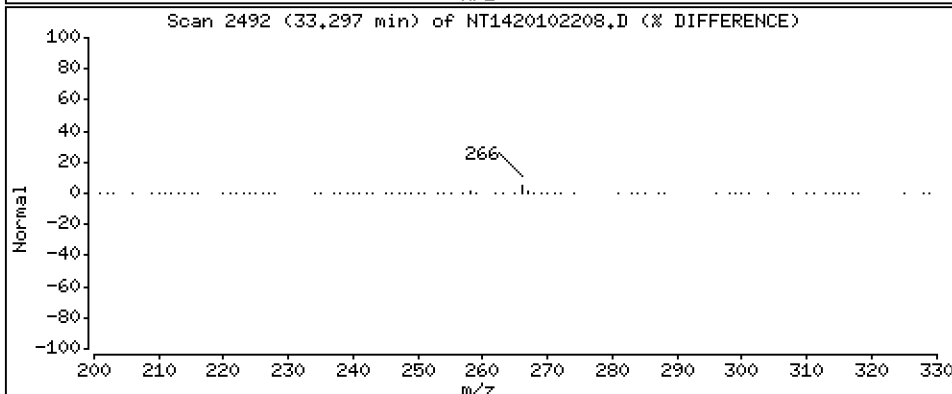
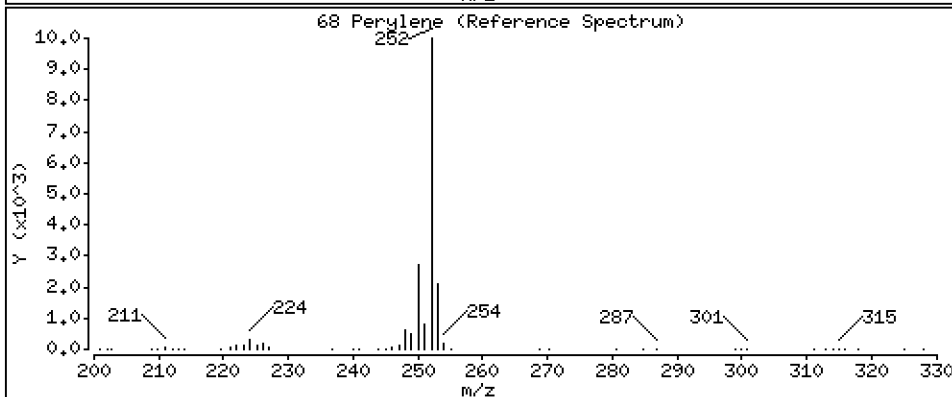
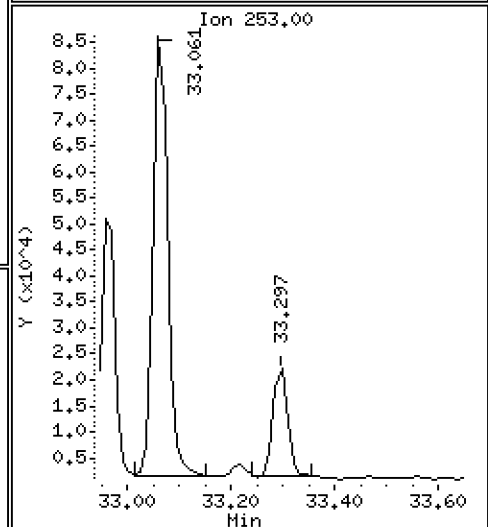
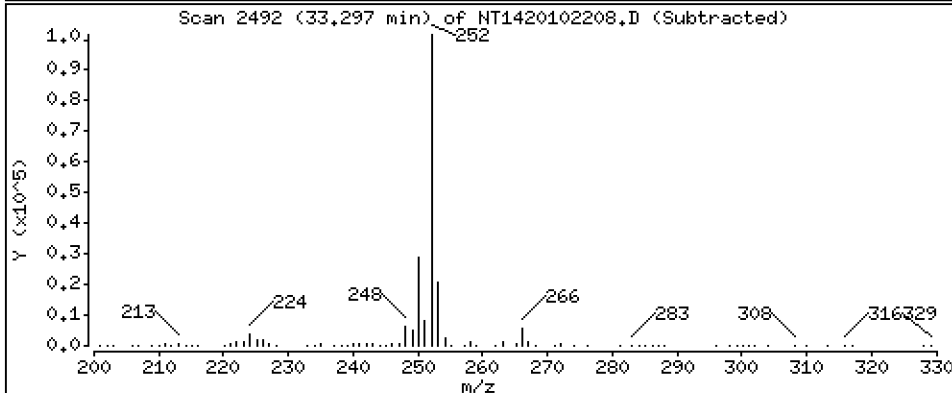
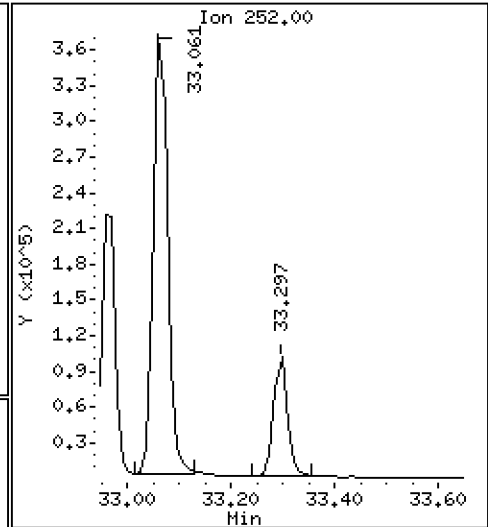
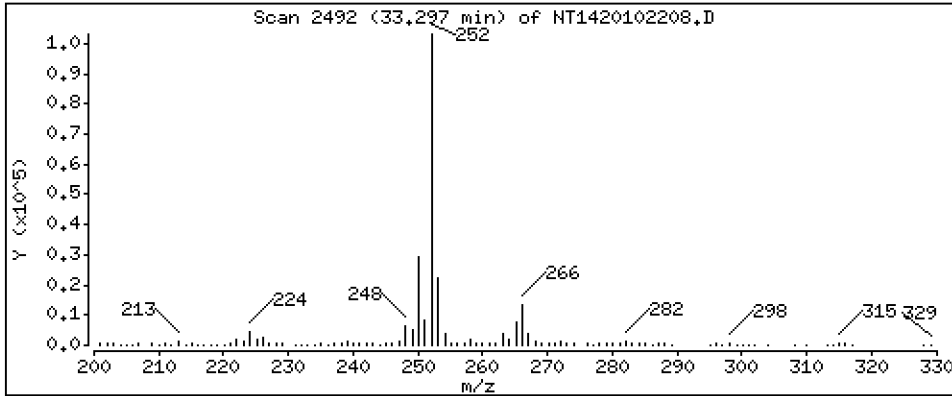
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

68 Perylene

Concentration: 12,06 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

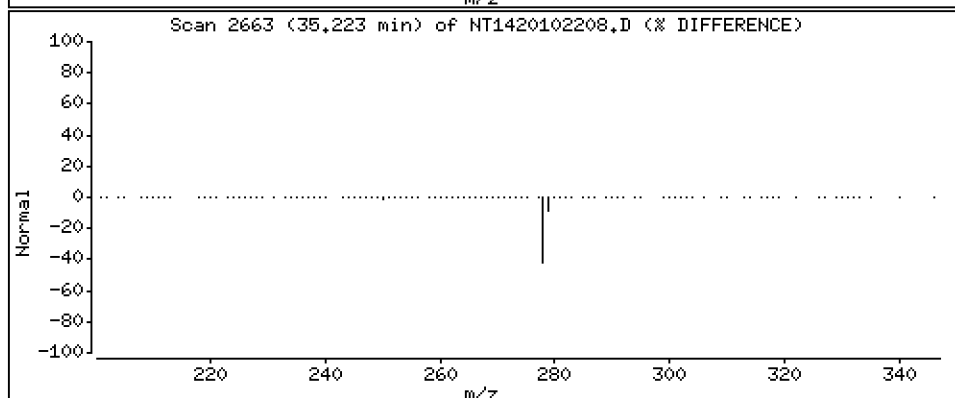
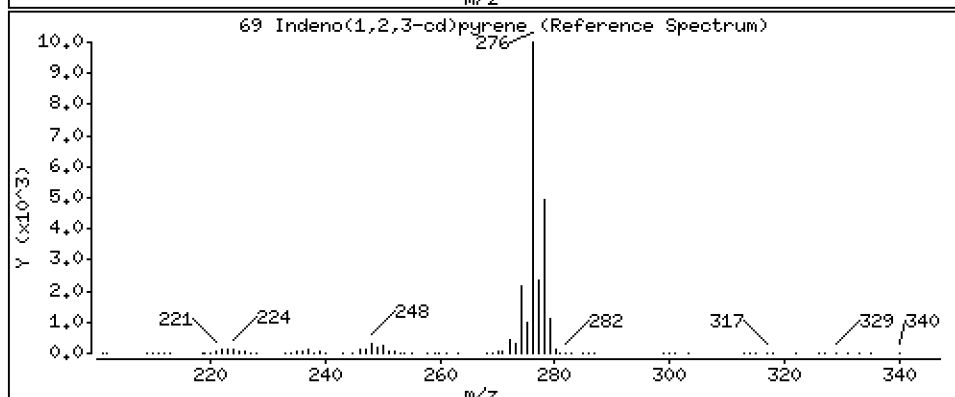
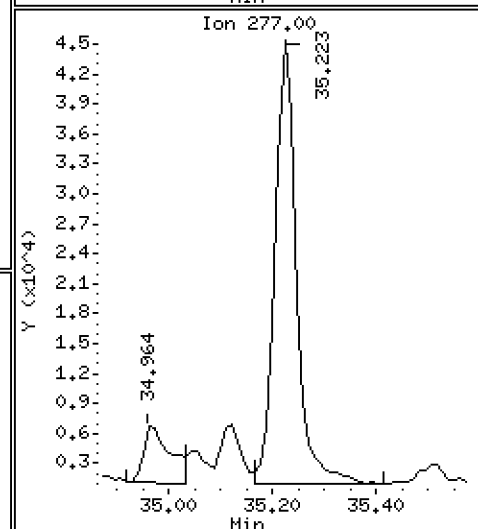
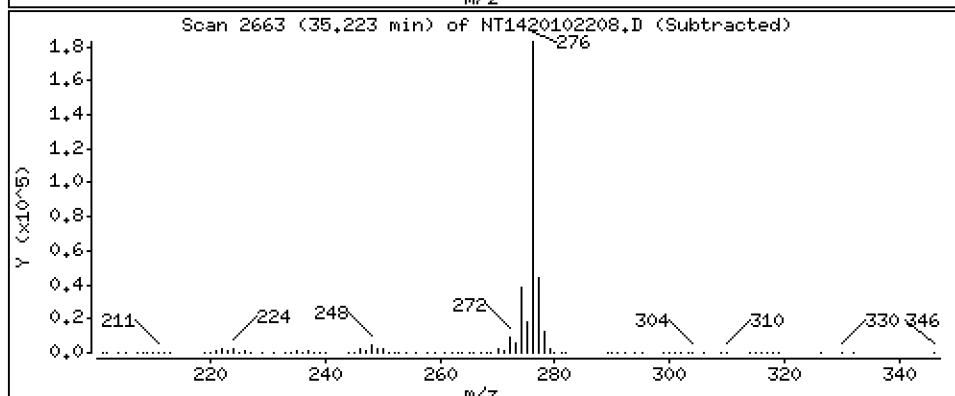
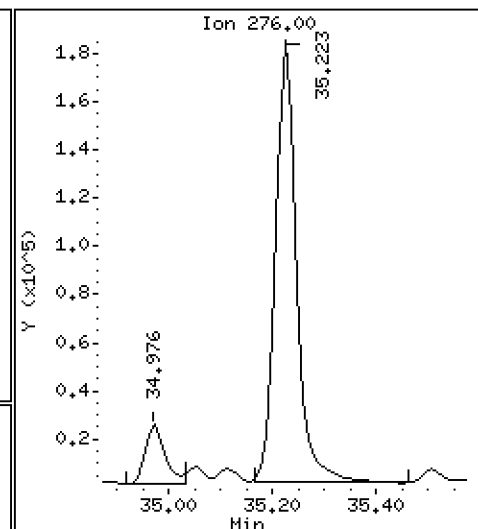
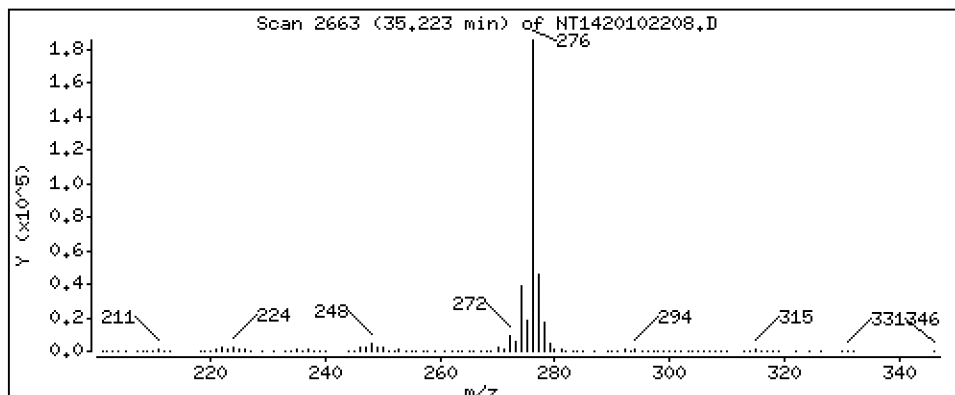
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 28,99 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

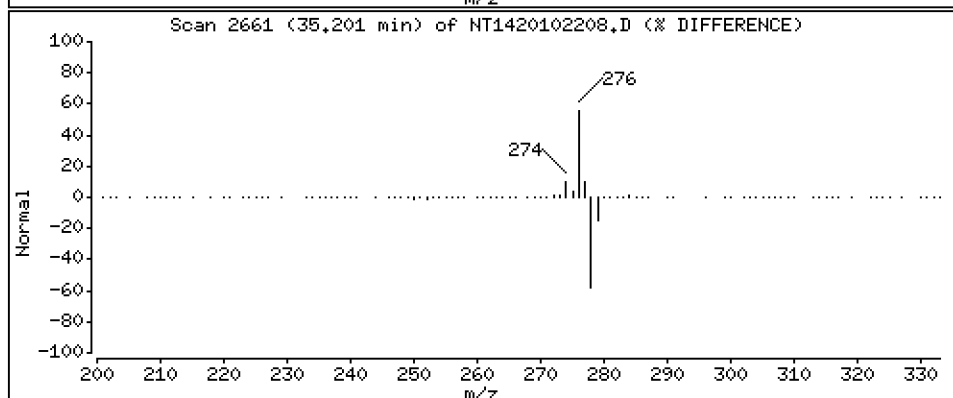
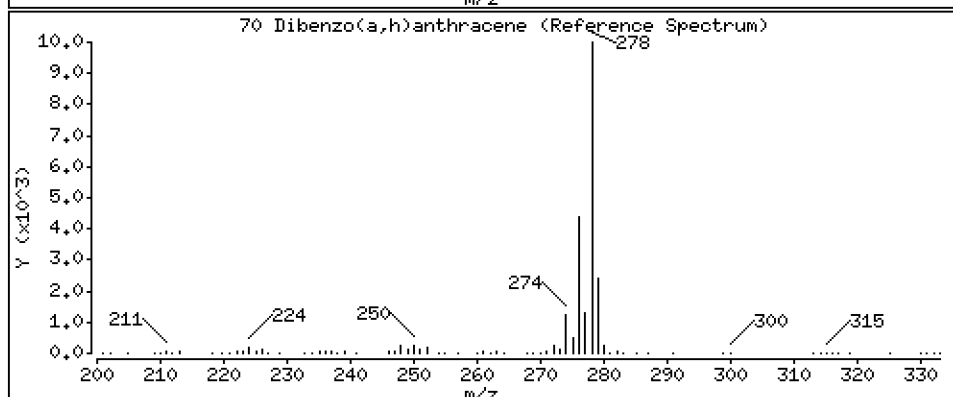
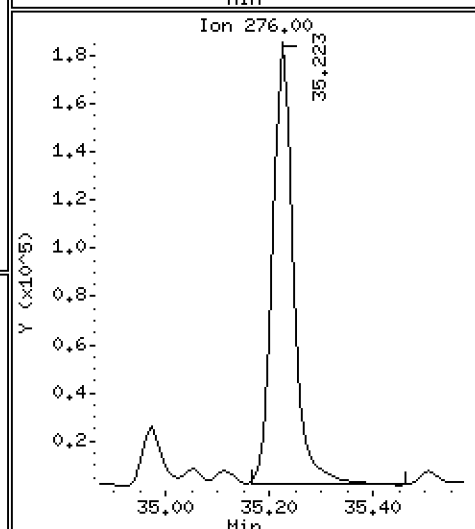
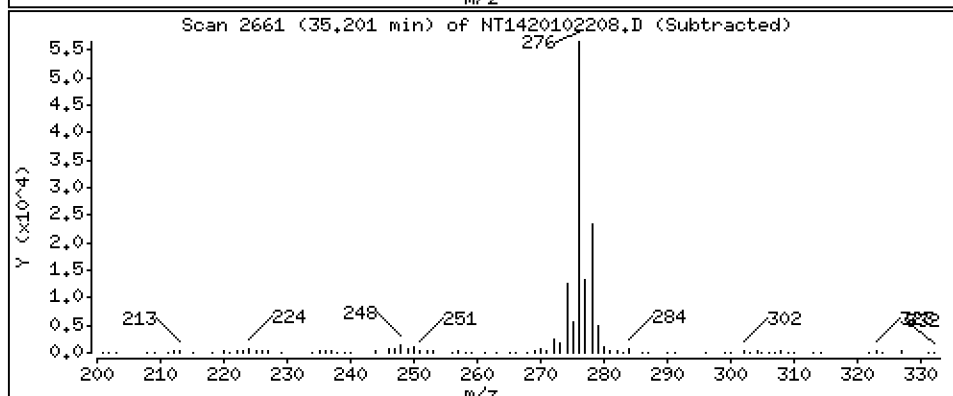
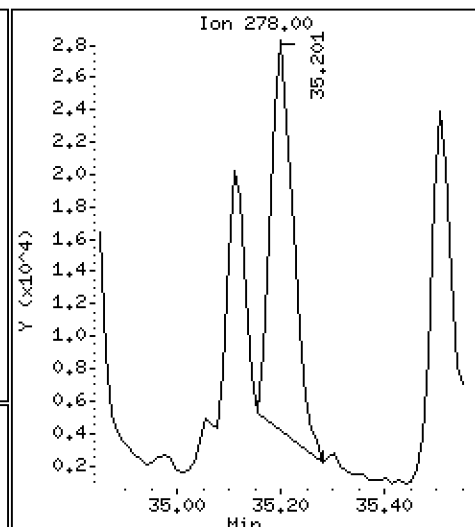
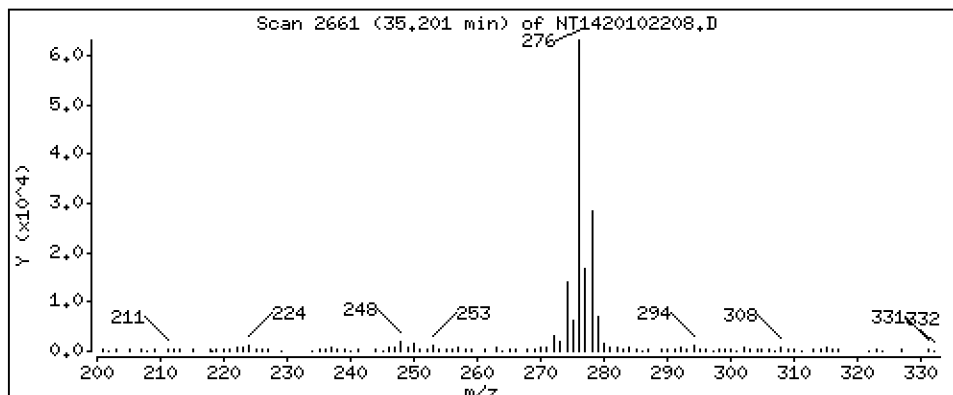
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 4,641 ug/mL



Date : 22-OCT-2020 14:56

Client ID:

Instrument: nt14.i

Sample Info: 20J0121-01RE1,10

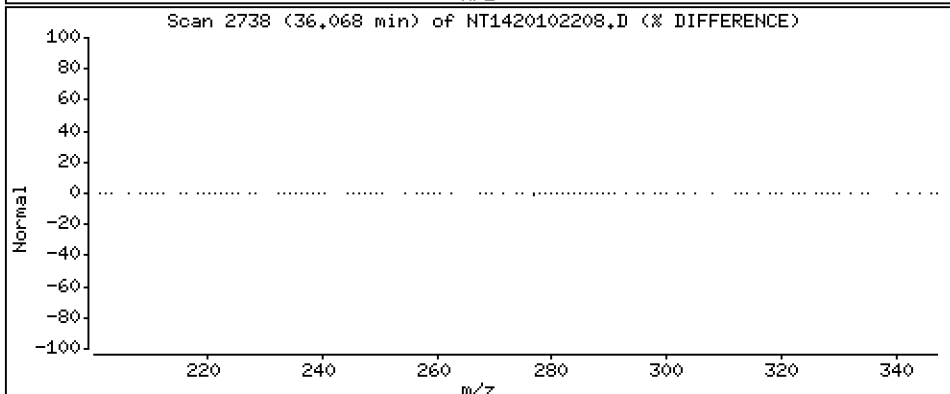
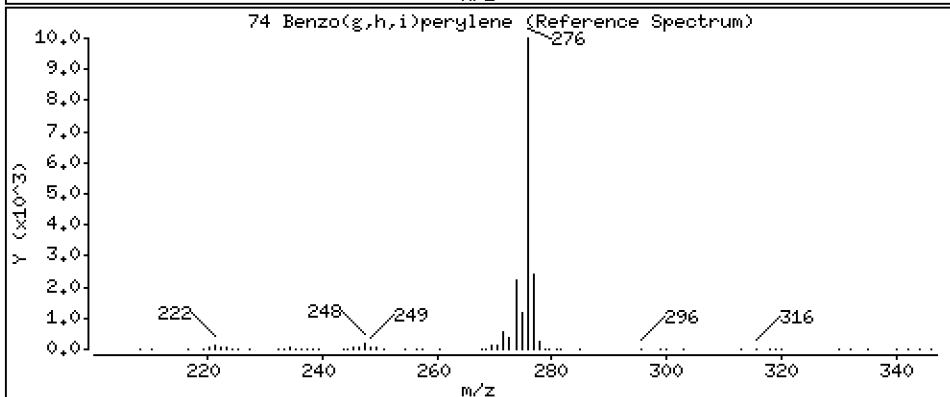
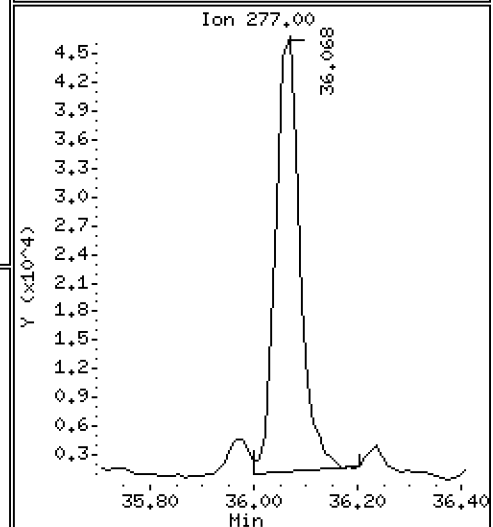
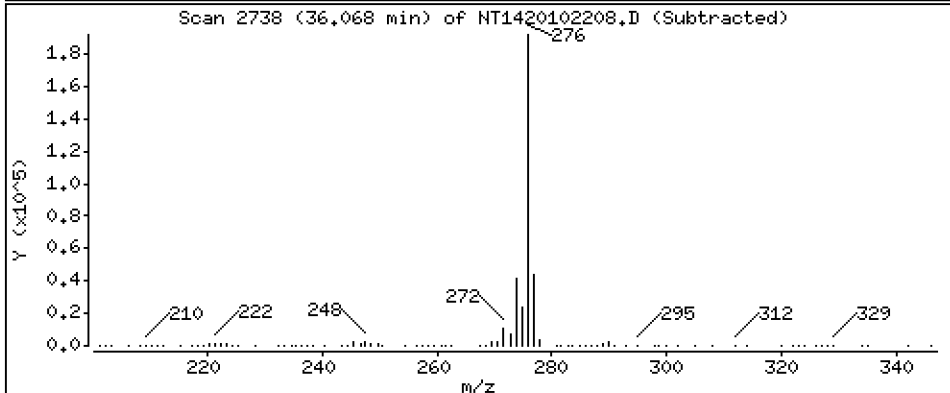
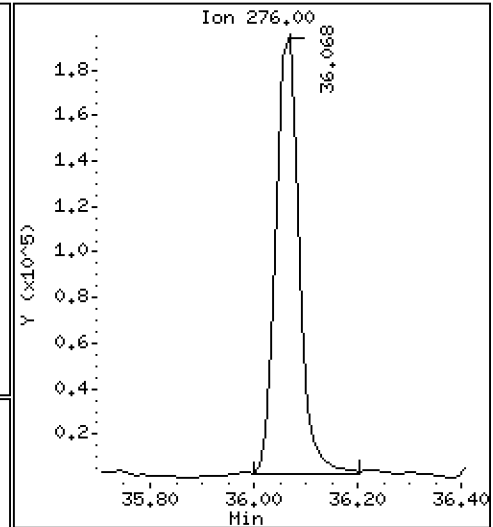
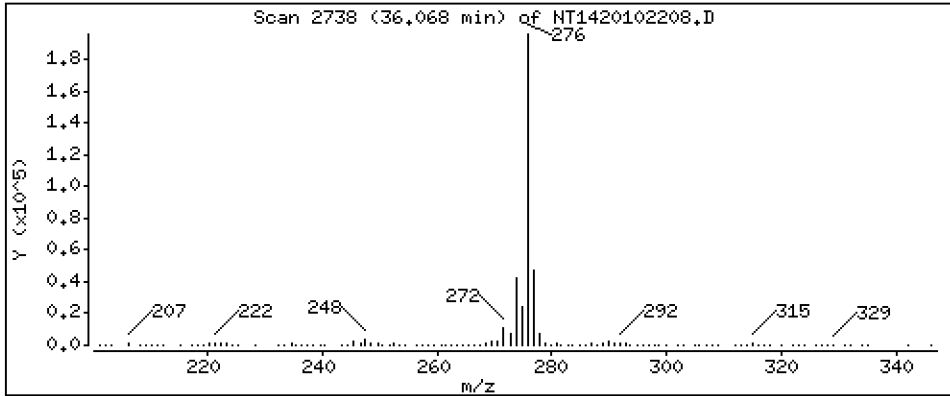
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 38,97 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201022.b\NT1420102208.D
 Lab Smp Id: 20J0121-01RE1
 Inj Date : 22-OCT-2020 14:56
 Operator : VTS
 Smp Info : 20J0121-01RE1,10
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201022.b\ALKYLPNA.m
 Meth Date : 22-Oct-2020 10:48 vans
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 8
 Dil Factor: 10.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i

Quant Type: ISTD
 Cal File: NT1420100708.D

Compound Sublist: TARGETS.sub

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138	Compound Not Detected.					
2 cis-Decalin	138	Compound Not Detected.					
\$ 6 Naphthalene-d8	136	11.630	11.630	(0.625)	14215	0.13977	1.398 (R)
7 Naphthalene	128	11.696	11.696	(0.628)	36155	0.35533	3.553
12 Benzo(b)thiophene	134	12.146	12.146	(0.652)	2371	0.02773	0.2773
16 2-Methylnaphthalene	141	13.531	13.531	(0.727)	10776	0.17373	1.737
17 1-methylnaphthalene	141	13.971	13.982	(0.750)	6837	0.10692	1.069
18 Biphenyl	154	15.169	15.169	(0.815)	3984	0.04268	0.4268
19 2,6-Dimethylnaphthalene	156	15.234	15.245	(0.818)	5030	0.07381	0.7381 (M)
20 Acenaphthylene	152	16.806	16.806	(0.903)	13319	0.11919	1.192
\$ 21 Acenaphthene-d10	164	17.092	17.092	(0.918)	10418	0.17059	1.706 (R)
22 Acenaphthene	153	17.202	17.202	(0.924)	54866	0.74948	7.495
23 Dibenzofuran	168	17.575	17.575	(0.944)	9408	0.08859	0.8859
24 1,6,7-Trimethylnaphthalene	170	17.806	17.806	(0.956)	4261	0.06167	0.6167
* 25 Fluorene-d10	176	18.621	18.621	(1.000)	249253	2.00000	
26 Fluorene	166	18.723	18.723	(1.005)	31324	0.37835	3.783
30 Dibenzothiophene	184	21.626	21.626	(1.161)	29461	0.24725	2.473
\$ 35 Phenanthrene-d10	188	21.930	21.941	(0.995)	25482	0.23709	2.371 (R)
36 Phenanthrene	178	22.018	22.018	(0.999)	491176	3.95254	39.53
* 250 Anthracene-d10	188	22.051	22.051	(1.000)	224396	2.00000	
37 Anthracene	178	22.117	22.117	(1.003)	133127	1.09005	10.90
42 Carbazole	167	23.403	23.403	(1.061)	51291	0.48497	4.850
43 1-Methylphenanthrene	192	23.843	23.854	(1.081)	36017	0.39487	3.949
44 Fluoranthene	202	25.822	25.822	(1.171)	1018588	7.42662	74.27
46 Pyrene	202	26.679	26.668	(1.210)	1186164	8.19569	81.96
51 Naphthobenzothiophene	234	29.234	29.234	(1.326)	63090	0.47825	4.783
55 Benzo(a)anthracene	228	29.816	29.817	(0.906)	480686	3.43404	34.34
\$ 56 Chrysene-d12	240	29.940	29.940	(0.910)	21372	0.19332	1.933 (R)
57 Chrysene	228	30.019	30.019	(0.912)	545158	3.91850	39.18
62 Benzo(b)fluoranthene	252	32.238	32.238	(0.980)	479245	3.03225	30.32 (M)
63 Benzo(k)fluoranthene	252	32.294	32.294	(0.982)	245281	1.53975	15.40 (M)
293 Benzo(j)fluoranthene	252	32.351	32.351	(0.983)	252204	1.81120	18.11
246 Total Benzofluoranthenes	252	32.238	32.351	(0.980)	945575	6.44805	64.48 (M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
* 251 Benzo(e)pyrene-d12	264		32.903	32.903	(1.000)	324241	2.00000	
64 Benzo(e)pyrene	252		32.959	32.959	(1.002)	410541	2.83701	28.37
66 Benzo(a)pyrene	252		33.060	33.060	(1.005)	655808	4.79661	47.97
\$ 67 Perylene-d12	264		33.240	33.241	(1.010)	28646	0.21366	2.137 (R)
68 Perylene	252		33.297	33.297	(1.012)	173221	1.20621	12.06
69 Indeno(1,2,3-cd)pyrene	276		35.223	35.223	(1.071)	490849	2.89911	28.99
70 Dibenzo(a,h)anthracene	278		35.200	35.200	(1.070)	69420	0.46409	4.641 (M)
74 Benzo(g,h,i)perylene	276		36.068	36.056	(1.096)	579666	3.89719	38.97

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 22-OCT-2020
 Lab File ID: NT1420102208.D Calibration Time: 10:01
 Lab Smp Id: 20J0121-01RE1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201022.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	202686	101343	405372	249253	22.97
250 Anthracene-d10	182635	91318	365270	224396	22.87
251 Benzo(e)pyrene-d1	271919	135960	543838	324241	19.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	-0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	-0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	-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 - NT1420102208.D

Lab ID: 20J0121-01RE1

nt14.i, 20201022.b\ALKYLPNA.m, 22-OCT-2020 14:56

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1420102202.D

On Column LOD for nt14.i, 20201022.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

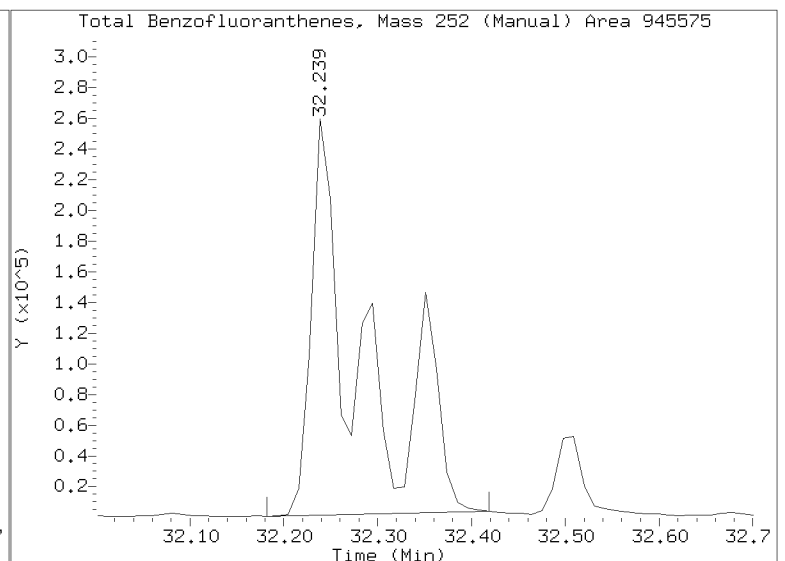
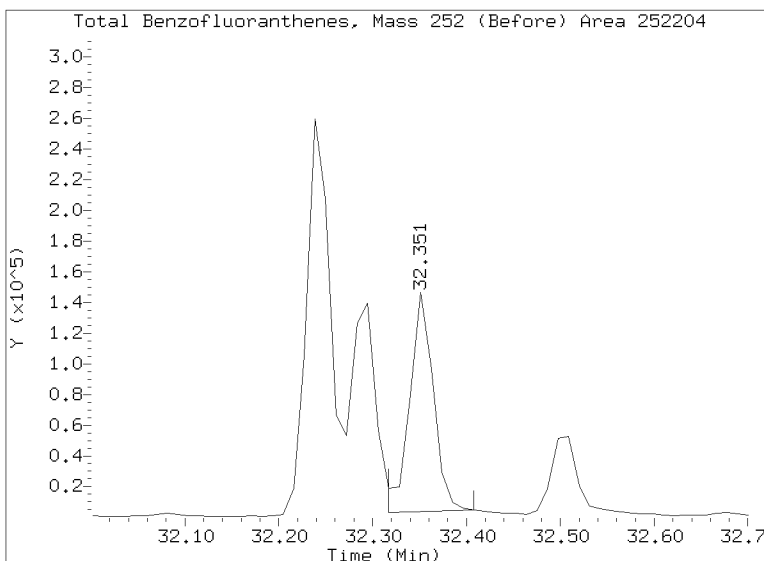
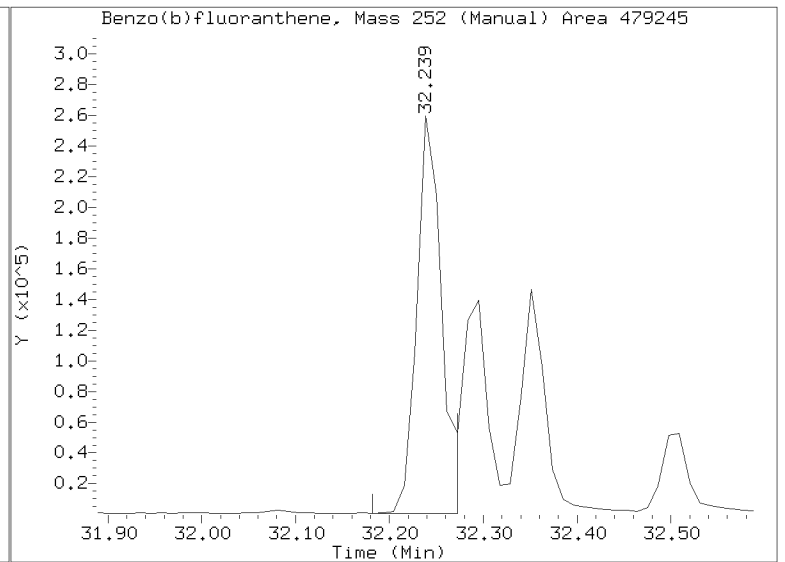
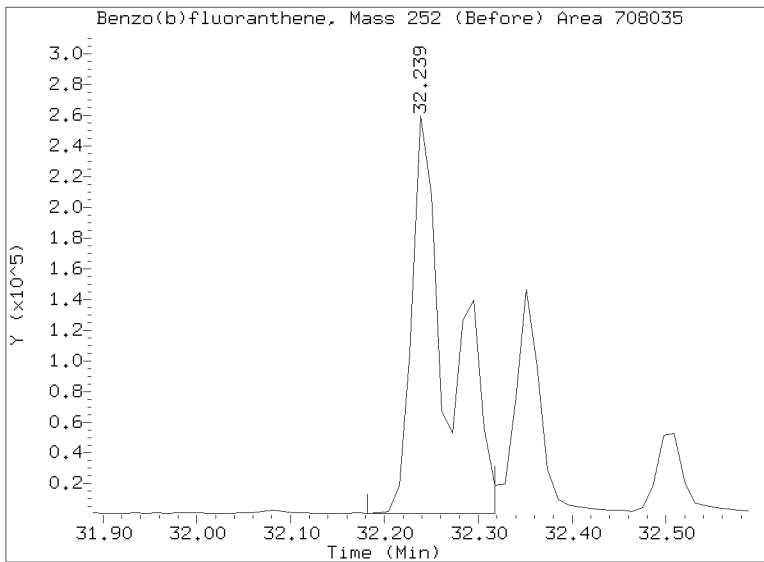
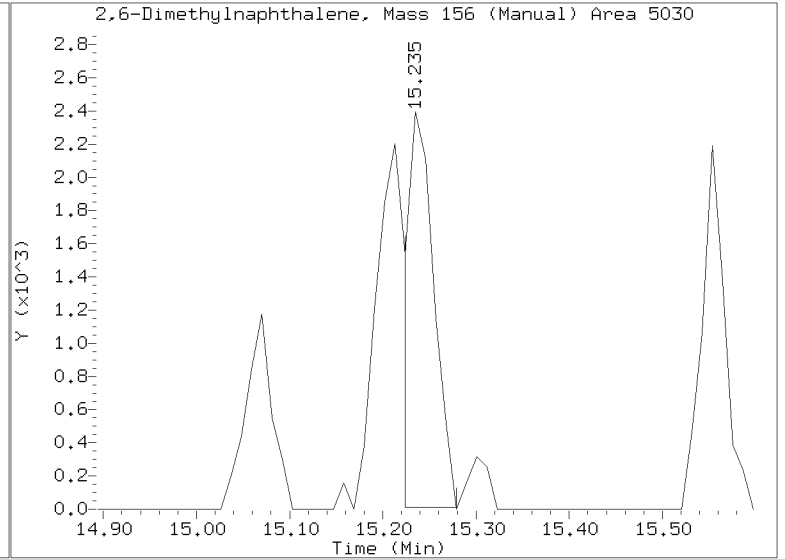
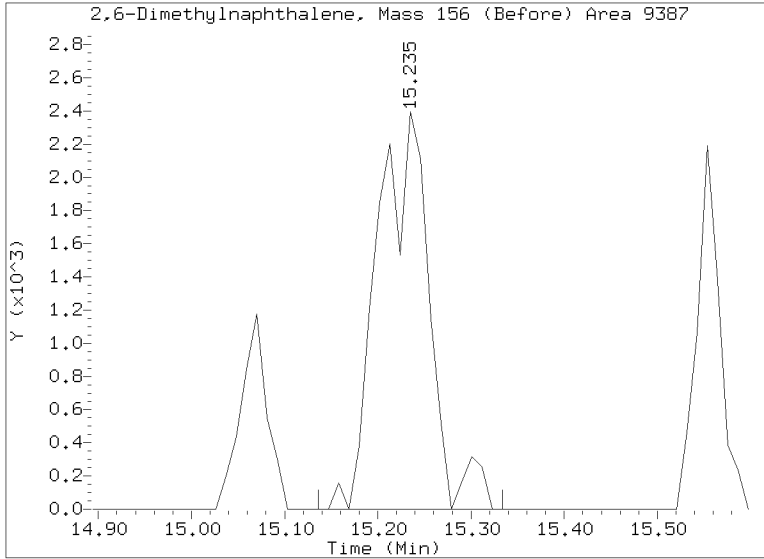
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201022.b/NT1420102208.D

Injection Date: 22-OCT-2020 14:56

Lab ID:20J0121-01RE1 Client ID:

Report Date: 10/23/2020 07:41



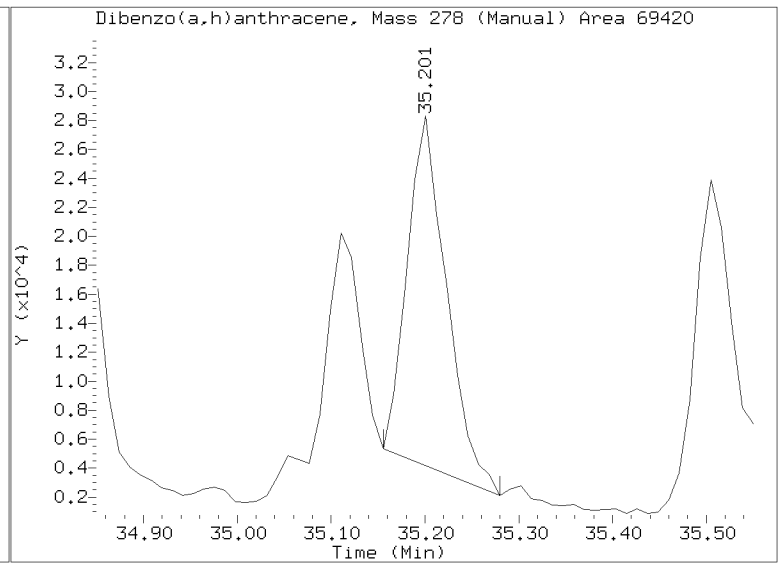
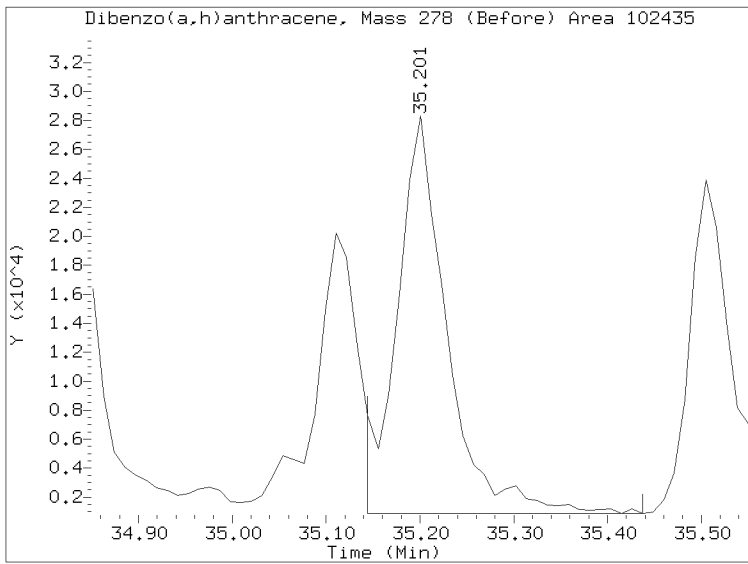
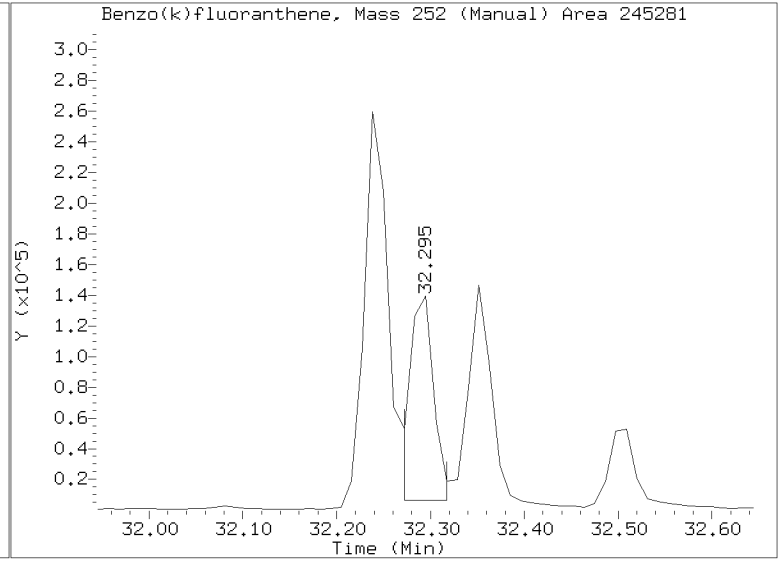
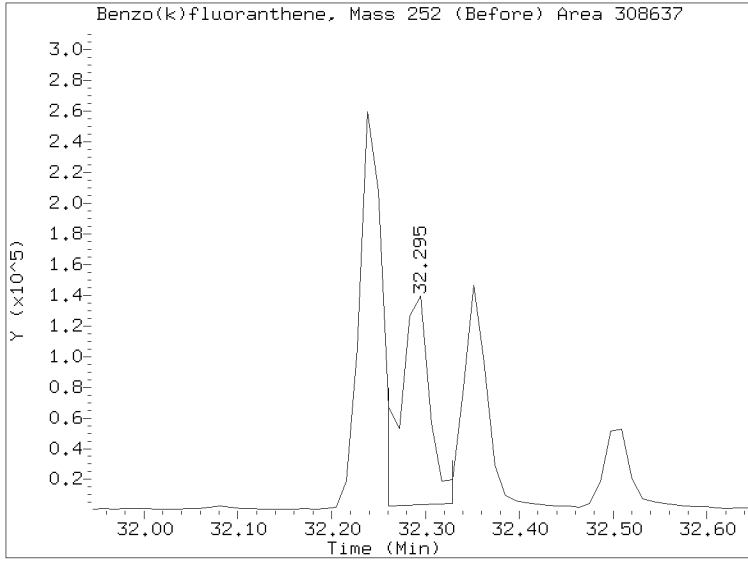
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201022.b/NT1420102208.D

Injection Date: 22-OCT-2020 14:56

Lab ID:20J0121-01RE1 Client ID:

Report Date: 10/23/2020 07:41





PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc. SDG: 20J0121
Client: Anchor QEA, LLC Project: GascoSiltronic
Batch: BIJ0442 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-055SG-201006	20J0121-01	NT1420102005S.D	10/14/20 11:58	
USMPDI-055SG-201006	20J0121-01	NT1420102005.D	10/14/20 11:58	
USMPDI-055SG-201006	20J0121-01RE1	NT1420102208.D	10/14/20 11:58	Added 10/22/2020 by VTS
Blank	BIJ0442-BLK1	NT1420102003.D	10/14/20 11:58	
Blank	BIJ0442-BLK2	NT1420102003S.D	10/14/20 11:58	
LCS	BIJ0442-BS1	NT1420102004.D	10/14/20 11:58	



Batch: BIJ0442

Prepared using: EPA 3546 (Microwave)

8270E-SIM Alkyl PAH (Parents) Dual Scan in Solid

8270E-SIM Alkyl PAH (Range) Dual Scan in Solid

Matrix: Solid

Date Prepared: 10/14/20

Balance ID: B146462614

Set Up By: CTO 10/14/20

Analysis: 8270E-SIM Alkyl PAH (Parents) Dual Scan

Lab Number & Container	% Solids	Initial (g)		(REQ) Opt GPC C/U (1:1)	(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ) Silica Gel C/U (1:1)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual						
20J0036-01 A	50.3	(1.00)	1.02	(1:1) Y/N	(1:1) Y/N	0.5	0.5	1.0 mL	
20J0036-02 A	57.3	(17.44)	17.48	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-01 A	53.5	(18.69)	18.74	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-02 A	55.6	(17.99)	17.99	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-03 A	68.0	(14.70)	14.78	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0121-01 A	38.7	(25.83)	25.86	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0122-01 A	74.3	(13.45)	13.49	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0122-02 A	44.3	(22.55)	22.56	(1:1) Y/N	(1:1) Y/N	0.5	0.5		

Analysis: 8270E-SIM Alkyl PAH (Range) Dual Scan

Lab Number & Container	% Solids	Initial (g)		(REQ) Opt GPC C/U (1:1)	(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ) Silica Gel C/U (1:1)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual						
20J0036-01 A	50.3	(1.00)	1.02	(1:1) Y/N	(1:1) Y/N	0.5	0.5	1.0	
20J0036-02 A	57.3	(17.44)	17.48	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-01 A	53.5	(18.69)	18.74	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-02 A	55.6	(17.99)	17.99	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0037-03 A	68.0	(14.70)	14.78	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0121-01 A	38.7	(25.83)	25.86	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0122-01 A	74.3	(13.45)	13.49	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
20J0122-02 A	44.3	(22.55)	22.56	(1:1) Y/N	(1:1) Y/N	0.5	0.5		

Batch QC

Lab Number	% Solids	Initial (g)		(REQ) Opt GPC C/U (1:1)	(REQ/Opt) Sulfur C/U (1:1) Y/N (Transfer Rinse)	(REQ) Silica Gel C/U (1:1)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
		Target Dry: 10 (Wet)	Actual						
BIJ0442-BLK1	100.0	(10.00)	10.00	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
BIJ0442-BS1	100.0	(10.00)	10.00	(1:1) Y/N	(1:1) Y/N	0.5	0.5		
BIJ0442-MS1	74.3	(13.45)	13.45	(1:1) Y/N	(1:1) Y/N	0.5	0.5		Use 20J0122-01
BIJ0442-MSD1	74.3	(13.45)	13.45	(1:1) Y/N	(1:1) Y/N	0.5	0.5		Use 20J0122-01

Client ID verified By: 10/14/20

Date

Preparation Reviewed By: CTO 10/18/20

Date

Extraction Date and Time: 10/14/20 11:58



Batch: BIJ0442

Prepared using: EPA 3546 (Microwave)

8270E-SIM Alkyl PAH (Parents) Dual Scan in Solid

8270E-SIM Alkyl PAH (Range) Dual Scan in Solid

Prep Steps	Reagents Used	Surrogates & Spike Standards Used															
Microwave 1 (2) 3 CT 10/14/20 CT Analyst/Date	Station/Reagent Microwave Analyst: CTM Date: 10/14/20	<table border="1"> <thead> <tr> <th>Type</th> <th>Vial ID / Standard ID</th> <th>Vol uL</th> <th>Analyst</th> <th>Witness</th> </tr> </thead> <tbody> <tr> <td>Surr</td> <td>T 1000266 Exp: 01/09/2021</td> <td>100µL</td> <td>CT</td> <td>Y</td> </tr> <tr> <td>Spike</td> <td>15 1007419 Exp: 03/23/2021</td> <td>100µL</td> <td>CT</td> <td>Y</td> </tr> </tbody> </table>	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness	Surr	T 1000266 Exp: 01/09/2021	100µL	CT	Y	Spike	15 1007419 Exp: 03/23/2021	100µL	CT	Y
	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness												
Surr	T 1000266 Exp: 01/09/2021	100µL	CT	Y													
Spike	15 1007419 Exp: 03/23/2021	100µL	CT	Y													
Pre-GPC KD 100°C (No Exchange) 1 2 3 (4) (5) 6 TWC 10/14/2020 Analyst/Date	1:1 Methylene Chloride/Acetone I009343 Methylene Chloride I009343 Anhydrous Sodium Sulfate I008491 Pre-Deactivated Glass Wool I007405	(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards. If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).															
	Pre GPC KD Analyst: TWC Date: 10/14/2020																
Pre GPC TurboVap 1 2 3 (4) CPO 10/15/20 Analyst/Date	Methylene Chloride I009343 Hexane I008804	Napthalene 42 Spike I008202 100µL Analyst Witness CT Y															
	GPC Filter Prep Analyst: CPO Date: 10/15/20																
Post-GPC KD 80°C Hexane Exchange 2 x 20 mL 100°C (1) 2 3 (4) (5) 6 VLB 10/16/20 Analyst/Date	Methylene Chloride I009343 GPC Analyst: CPO Date: 10/15/20																
	Methylene Chloride I009343 GPC Calibration File CH00117-001																
Pre-Cleanup TurboVap (1) 2 3 4 CPO 10/18/20 Analyst/Date	Post GPC KD Analyst: VLB Date: 10/16/20																
	Hexane I008804 Methylene Chloride I009343																
Post-Cleanup TurboVap 1 (2) 3 4 CPO 10/18/20 Analyst/Date	Vialing Analyst: MW Date: 10/18/20																
	Silica Gel (SPE) darts I007877 Methylene Chloride I009343 Hexane I008804																
Vialing CCB 10/18/20 Analyst/Date	Tetrabutylammonium hydrogensulfate (TBAS) I009022 Sodium Sulfite I006379																



Batch: BIJ0442

Prepared using: EPA 3546 (Microwave)

8270E-SIM Alkyl PAH (Parents) Dual Scan in Solid

8270E-SIM Alkyl PAH (Range) Dual Scan in Solid

Prep Instructions

SPECIAL INSTRUCTIONS:

1. Weigh into beakers 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 Refrigerator 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. If GPC is Req add 10mL Hexane and KD to 5mL at 100°C (NO EXCHANGE)
12. If GPC is NOT Req = KD to 5mL at 100°C. Exchange to Hexane (2X with 10mL) to 5mL at 100°C.
13. TurboVap.
14. Sulfur clean = Hexane transfer rinse.
15. Silica Clean-up REQ.
16. TurboVap
17. Vial in DCM.

A. Need Total Solids Y / N

B. Archive/Freeze Y N

Batch: BIJ0442

Batch Comment: **NONE**

Project: Willamette Navigation Channel

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0037

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0037-01

Sample Comments: **NONE**

Sample: 20J0037-02

Sample Comments: **NONE**

Sample: 20J0037-03

Sample Comments: **NONE**

Work Order:20J0036

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0036-01

Sample Comments: **NONE**

Sample: 20J0036-02

Sample Comments: **NONE**

Project: GascoSiltronic

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0121

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0121-01

Sample Comments: **NONE**

Project: Willamette Navigation Channel

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0122

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0122-01

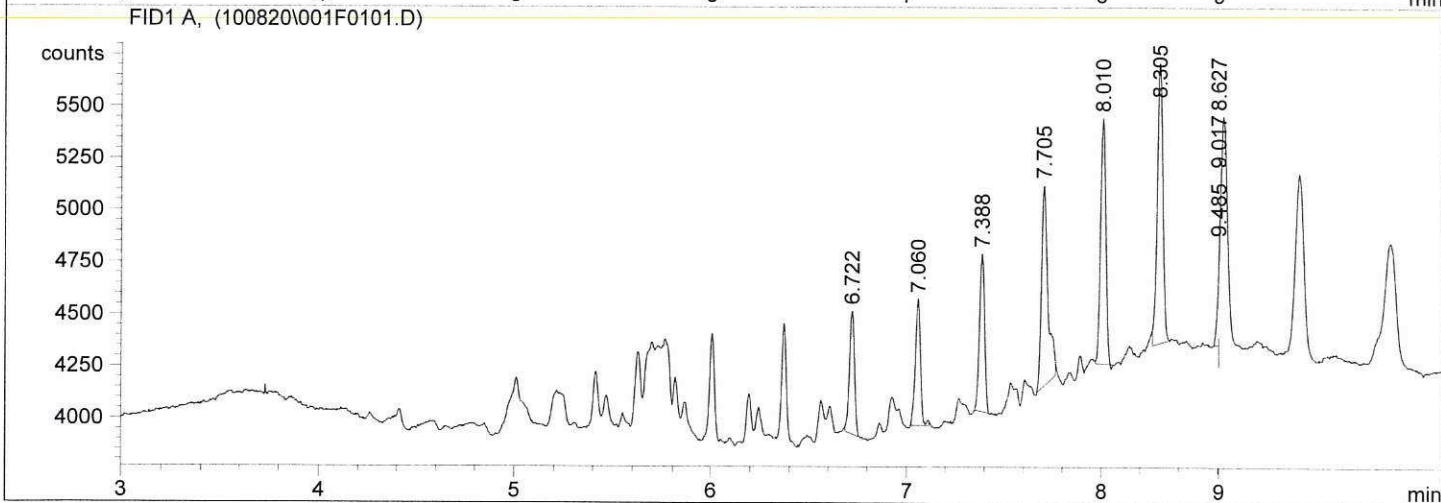
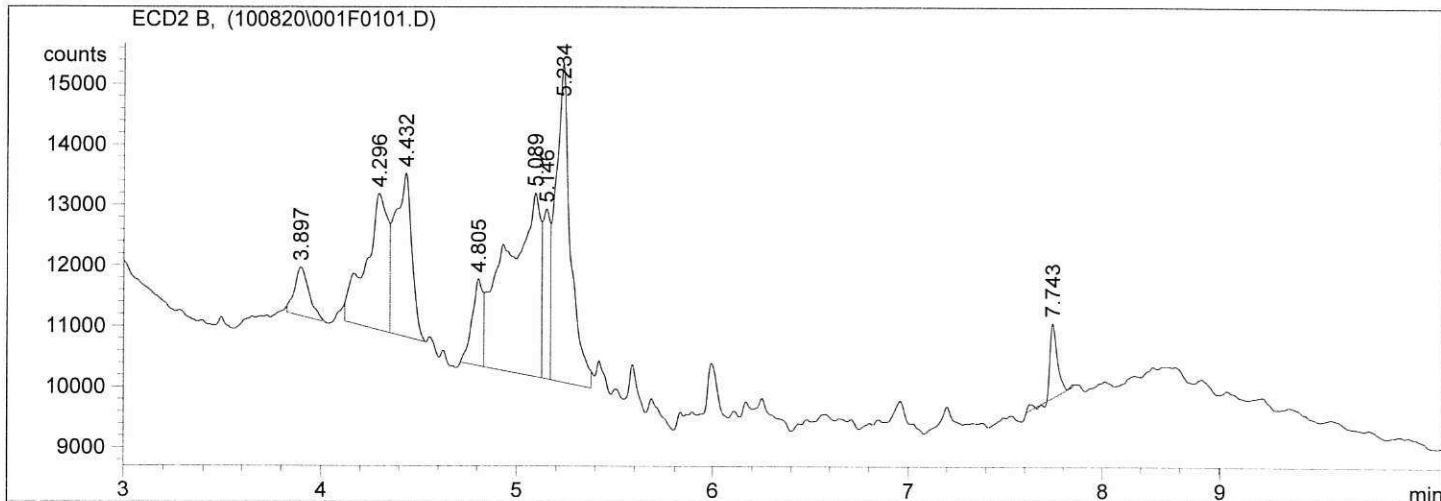
Sample Comments: **NONE**

Sample: 20J0122-02

Sample Comments: **NONE**

=====
Injection Date : 10/8/2020 4:25:31 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

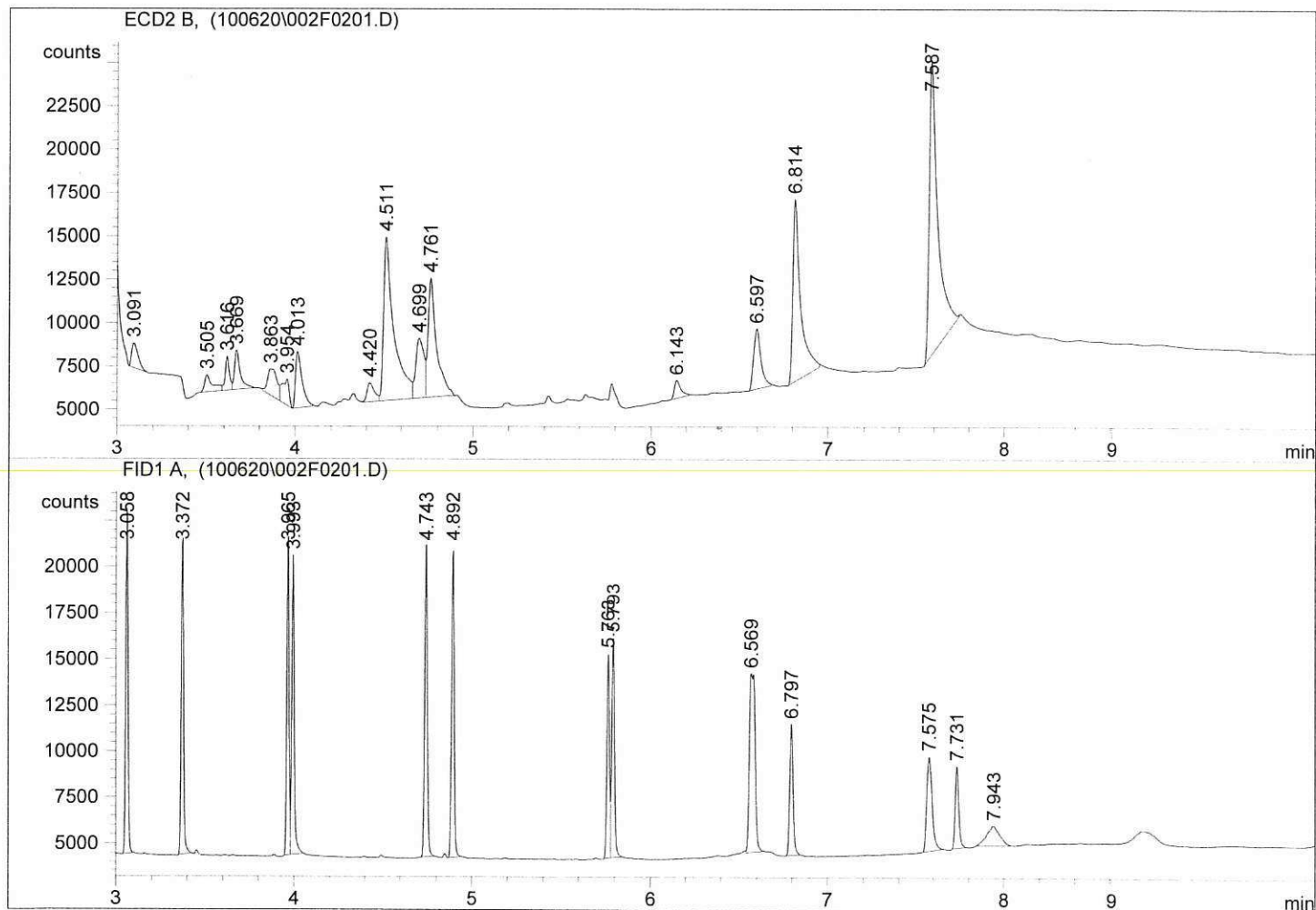
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SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 10/6/2020 10:53:17 AM Seq. Line : 2
Sample Name : PNA STD 10PPM Location : Vial 2
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

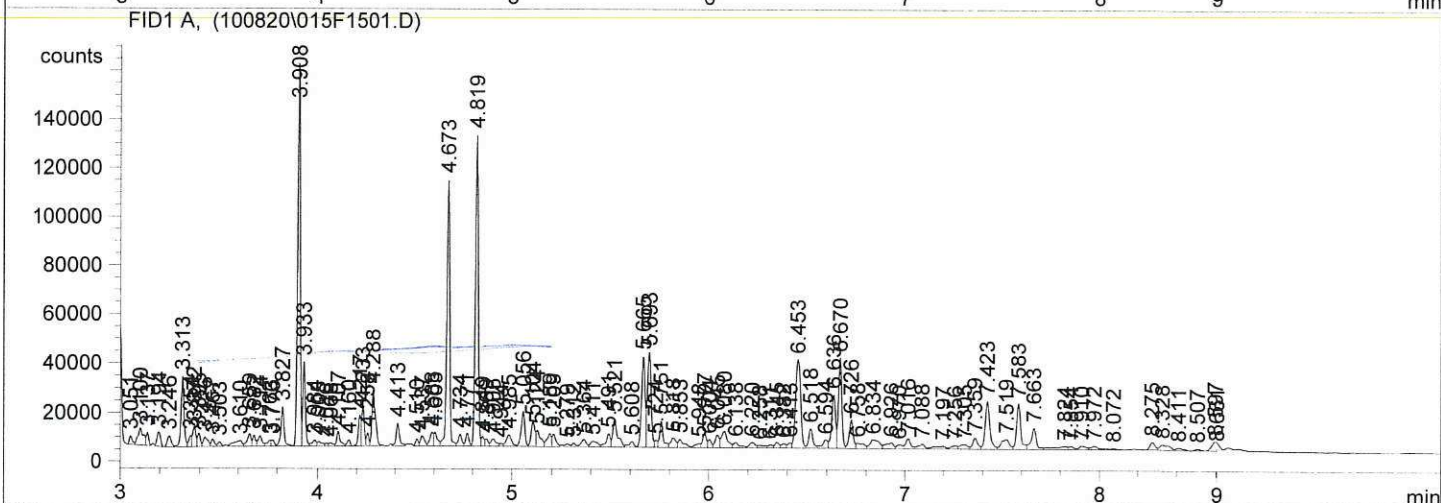
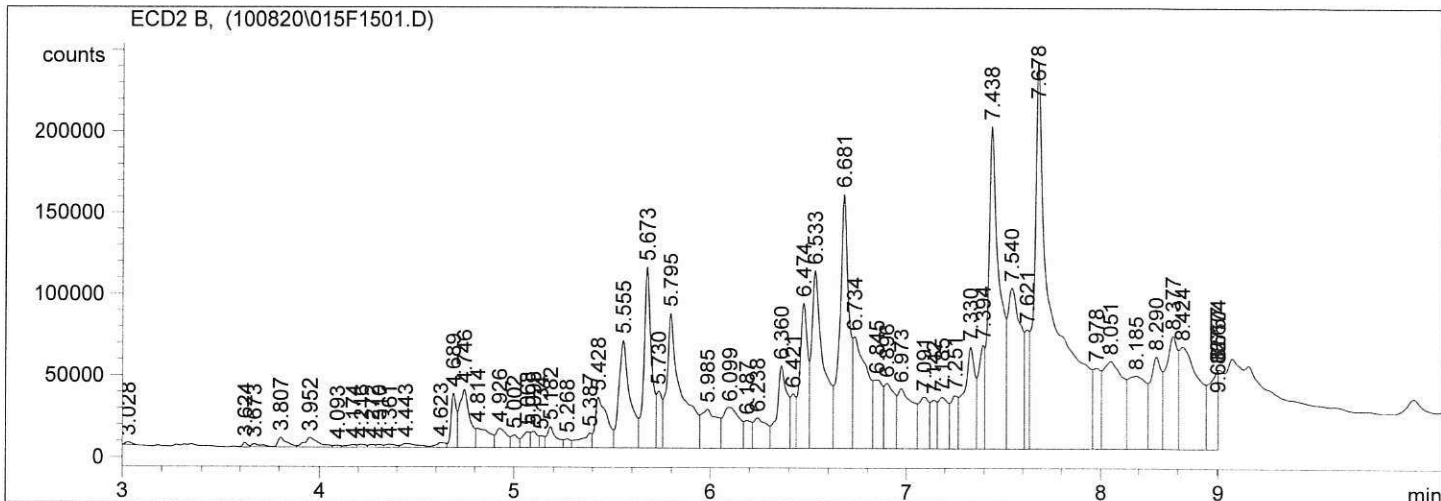
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SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 10/8/2020 7:41:56 PM Seq. Line : 15
Sample Name : 20J0036 01 Location : Vial 15
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\100820.S
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Last changed : 9/11/2020 3:50:10 PM by JGR
SCREEN METHOD
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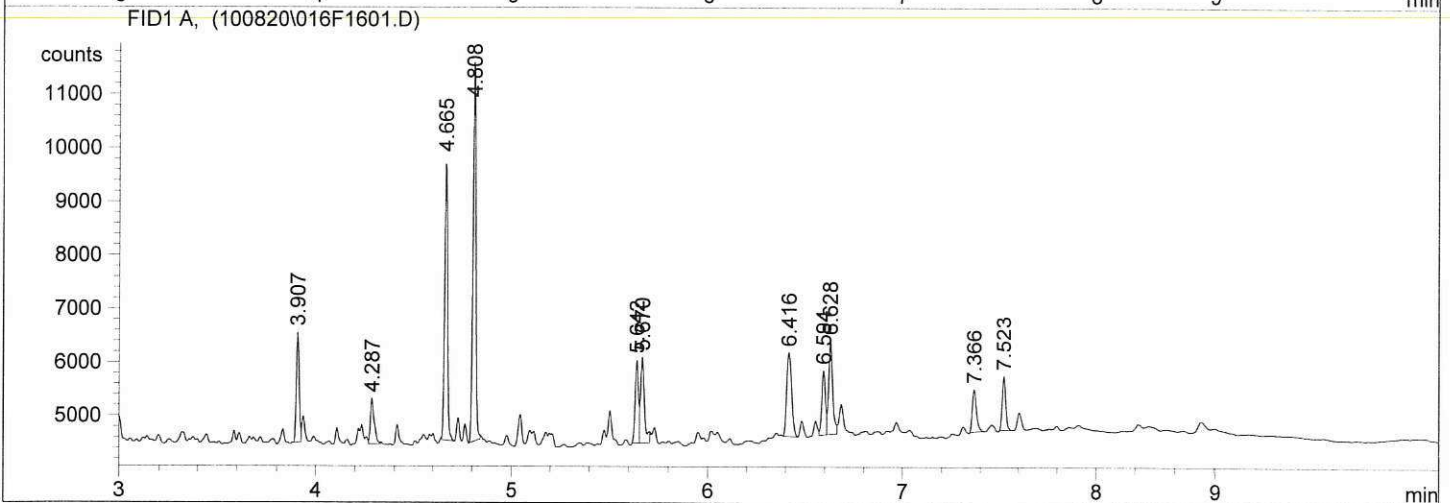
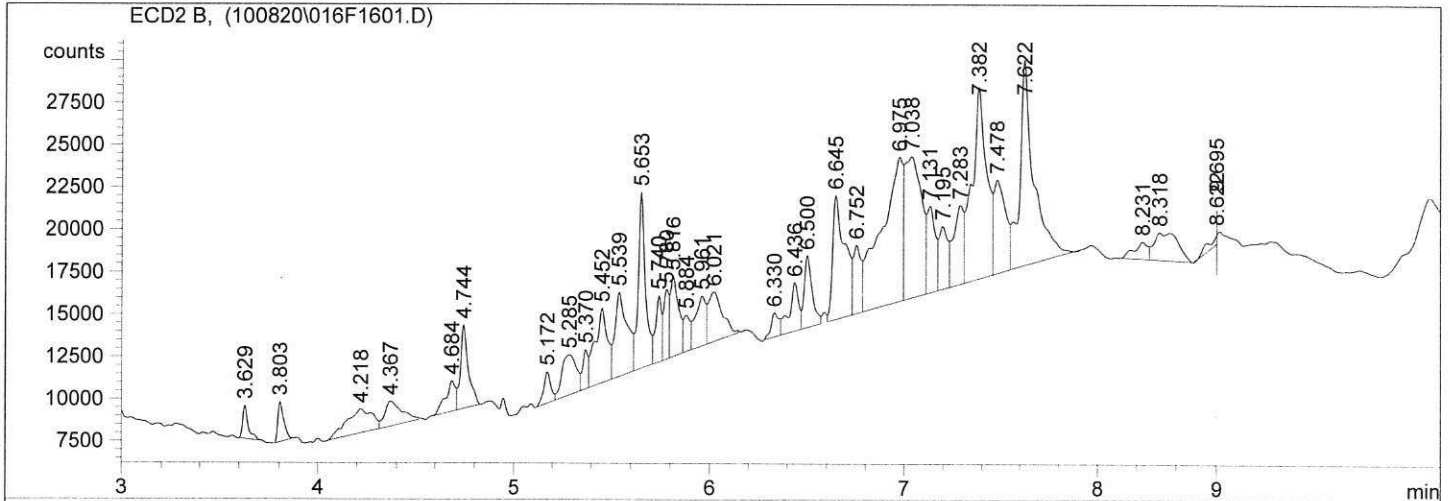
*** End of Report ***

1s / 1.5 mL
1:10 split

```

=====
Injection Date   : 10/8/2020 7:55:46 PM      Seq. Line : 16
Sample Name     : 20J0036 02                 Location  : Vial 16
Acq. Operator  : YL                          Inj       : 1
                                           Inj Volume: 1 µl

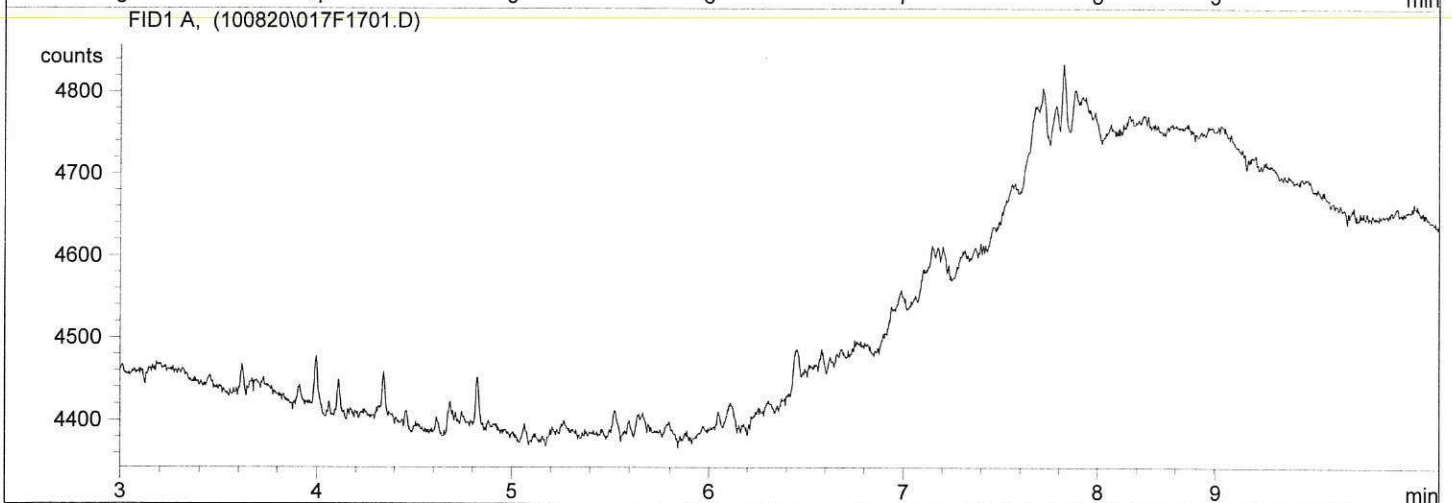
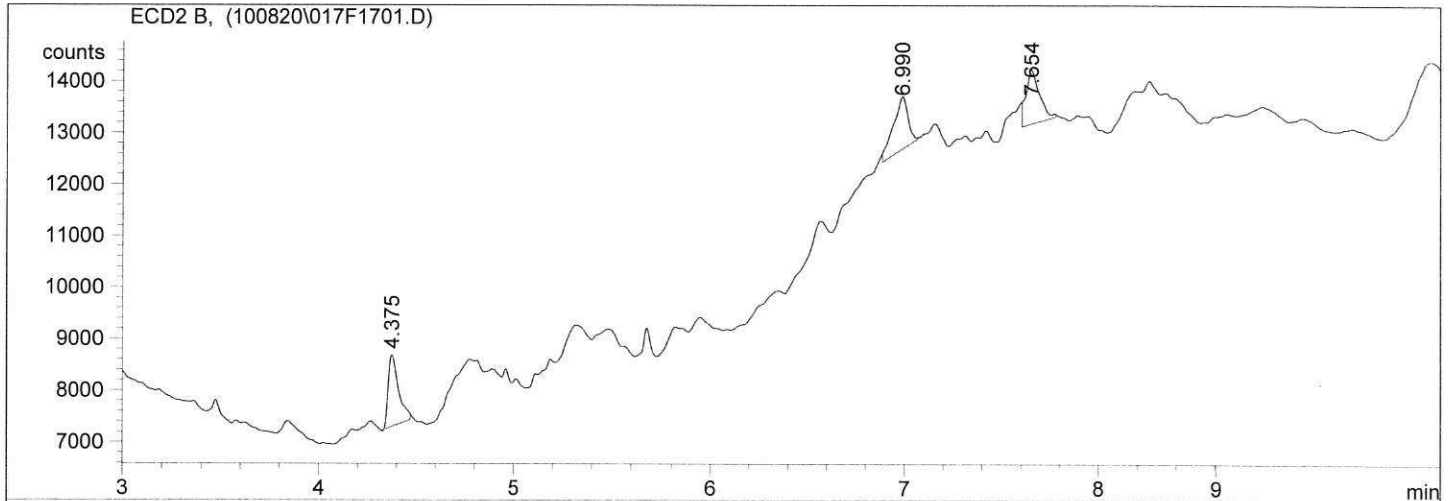
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SCREEN METHOD
=====
    
```



*** End of Report ***

=====
Injection Date : 10/8/2020 8:10:05 PM Seq. Line : 17
Sample Name : 20J0037 01 Location : Vial 17
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

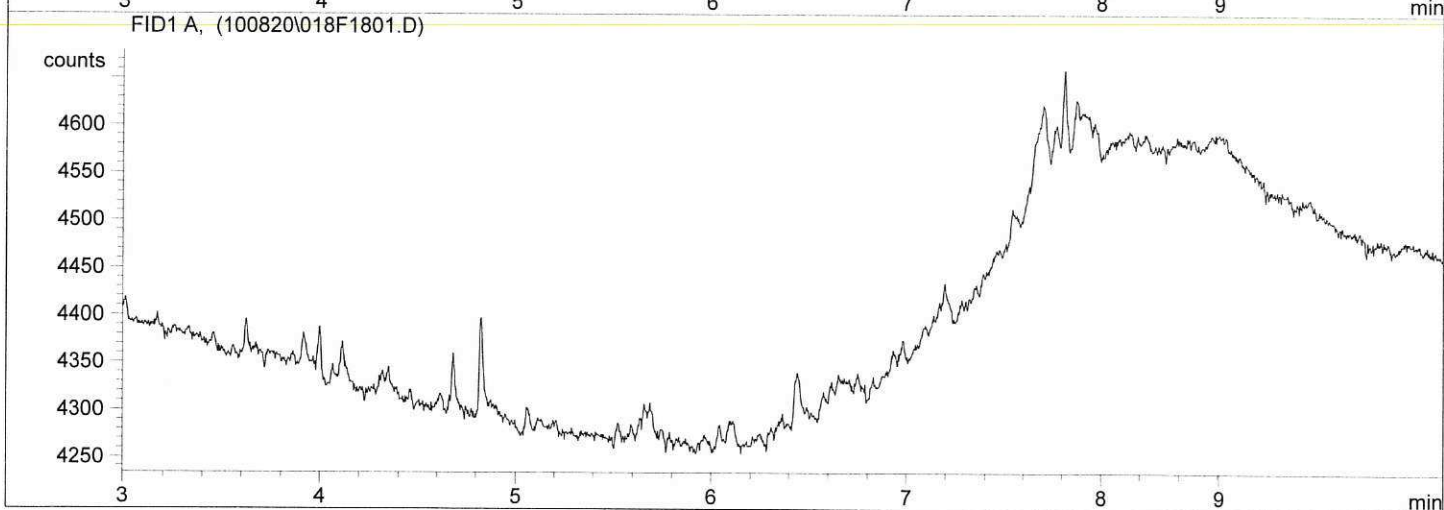
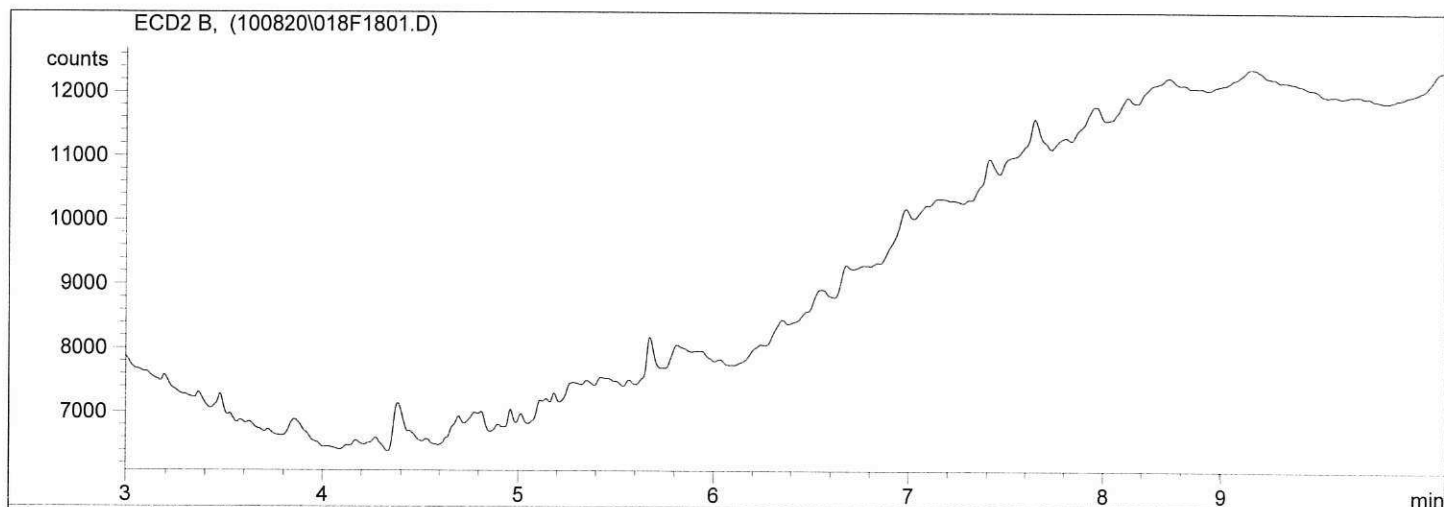
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SCREEN METHOD
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*** End of Report ***


```
=====
Injection Date   : 10/8/2020 8:23:52 PM      Seq. Line :   18
Sample Name     : 20J0037 02                 Location  : Vial 18
Acq. Operator  : YL                          Inj       :    1
                                                Inj Volume: 1 µl

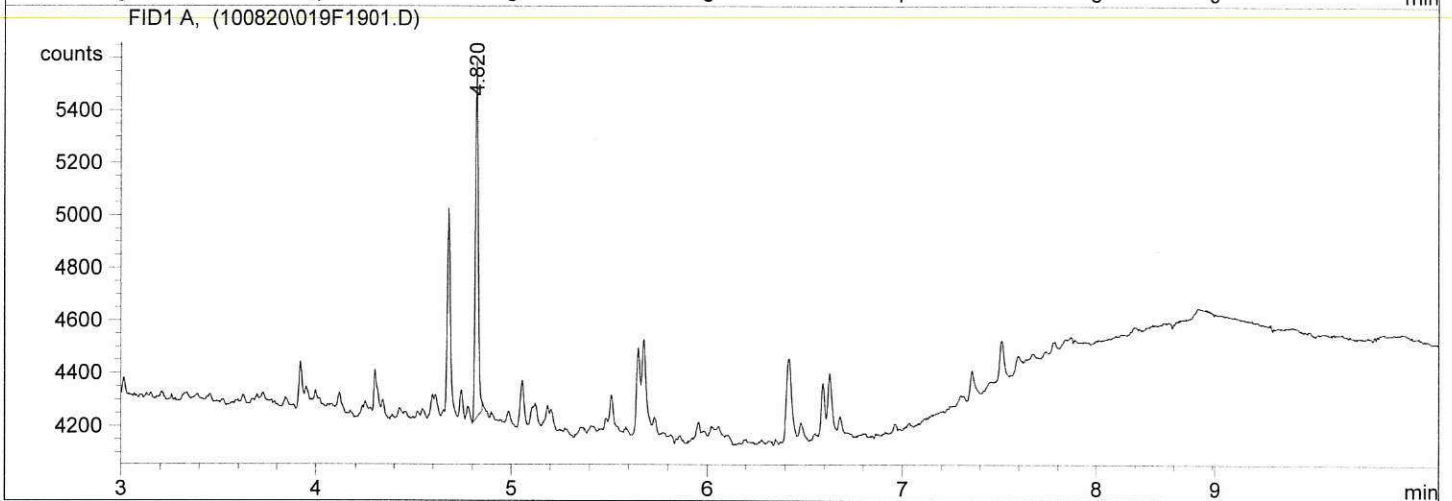
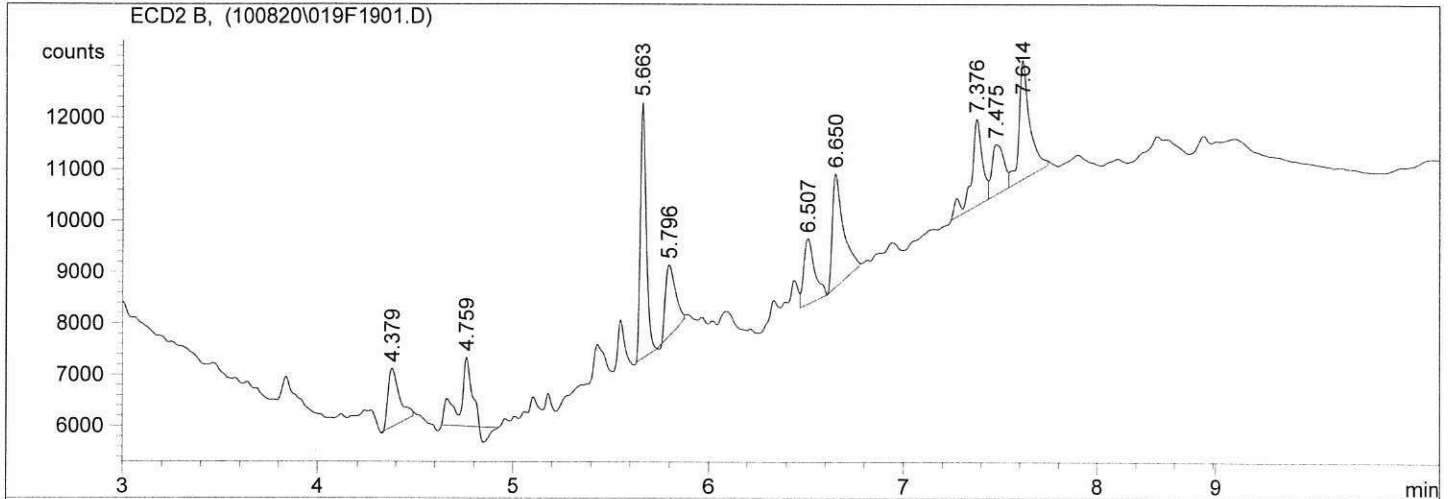
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Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 9/11/2020 3:50:10 PM by JGR
SCREEN METHOD
=====
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*** End of Report ***

=====
Injection Date : 10/8/2020 8:38:09 PM Seq. Line : 19
Sample Name : 20J0037 03 Location : Vial 19
Acq. Operator : YL Inj : 1
 Inj Volume : 1 µl

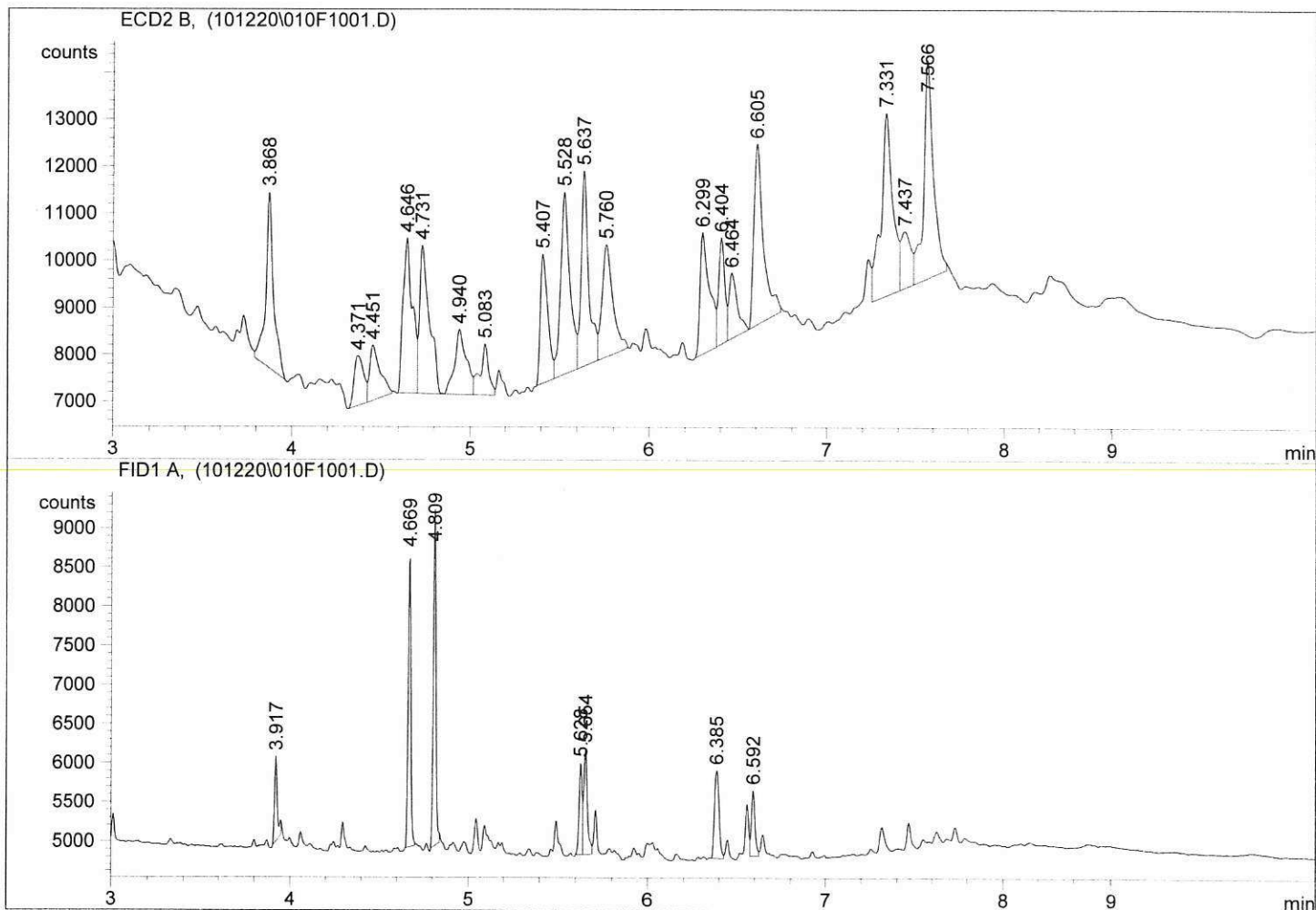
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Last changed : 9/11/2020 3:50:10 PM by JGR
SCREEN METHOD
=====



*** End of Report ***

=====
Injection Date : 10/12/2020 7:46:38 PM Seq. Line : 10
Sample Name : 20J0121 01 Location : Vial 10
Acq. Operator : DXP Inj : 1
 Inj Volume : 1 µl

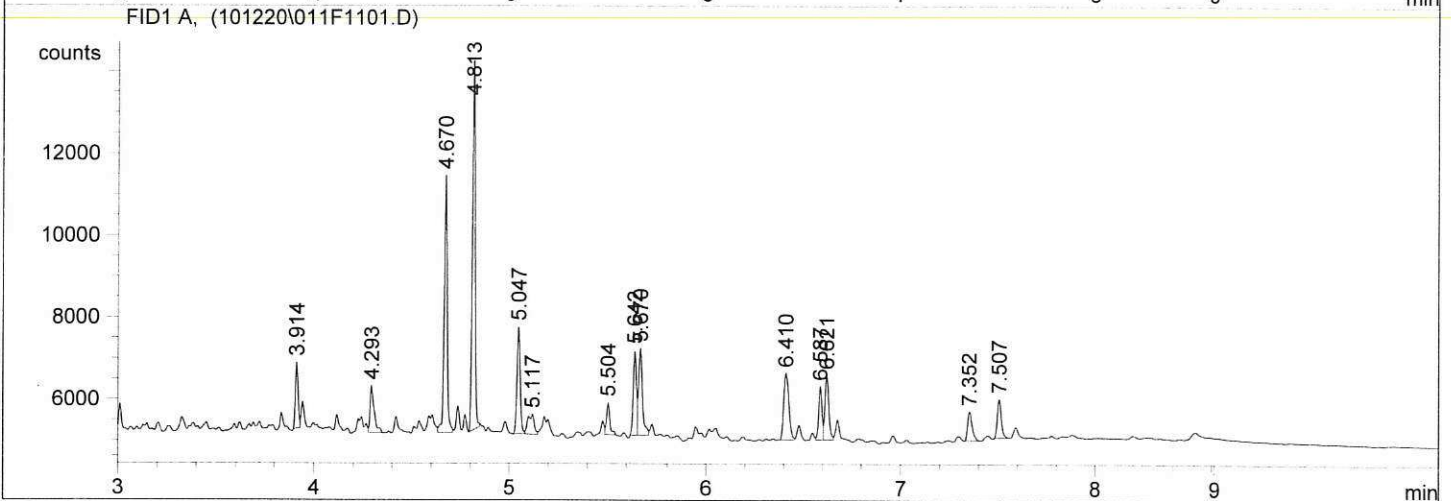
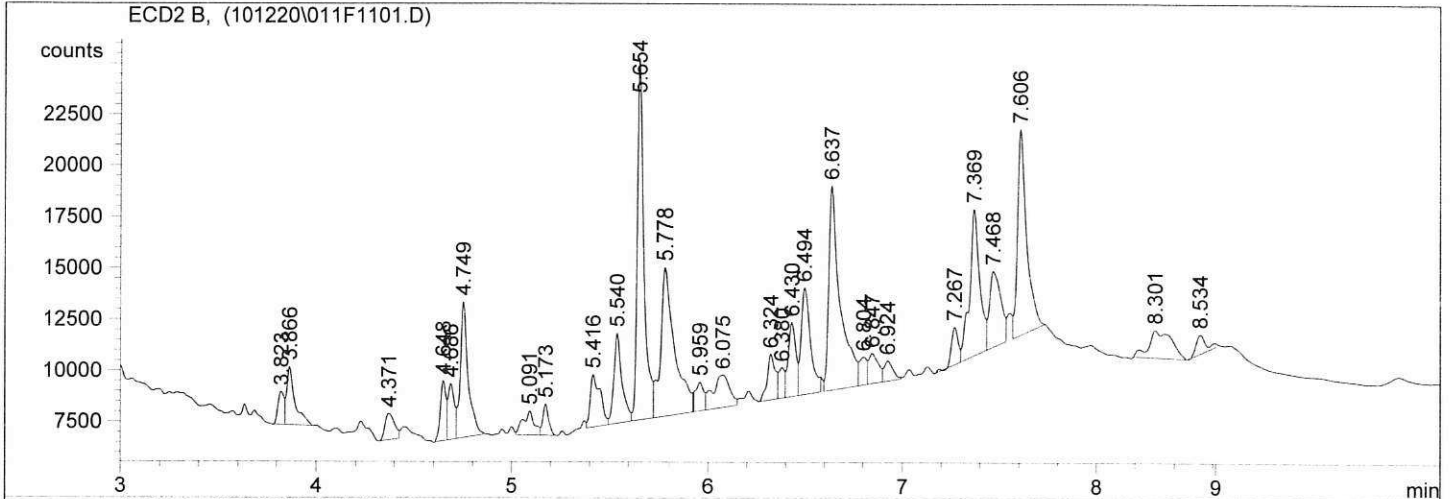
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Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 9/11/2020 3:50:10 PM by JGR
SCREEN METHOD
=====



*** End of Report ***

=====
Injection Date : 10/12/2020 8:00:59 PM Seq. Line : 11
Sample Name : 20J0122 01 Location : Vial 11
Acq. Operator : DXP Inj : 1
 Inj Volume : 1 µl

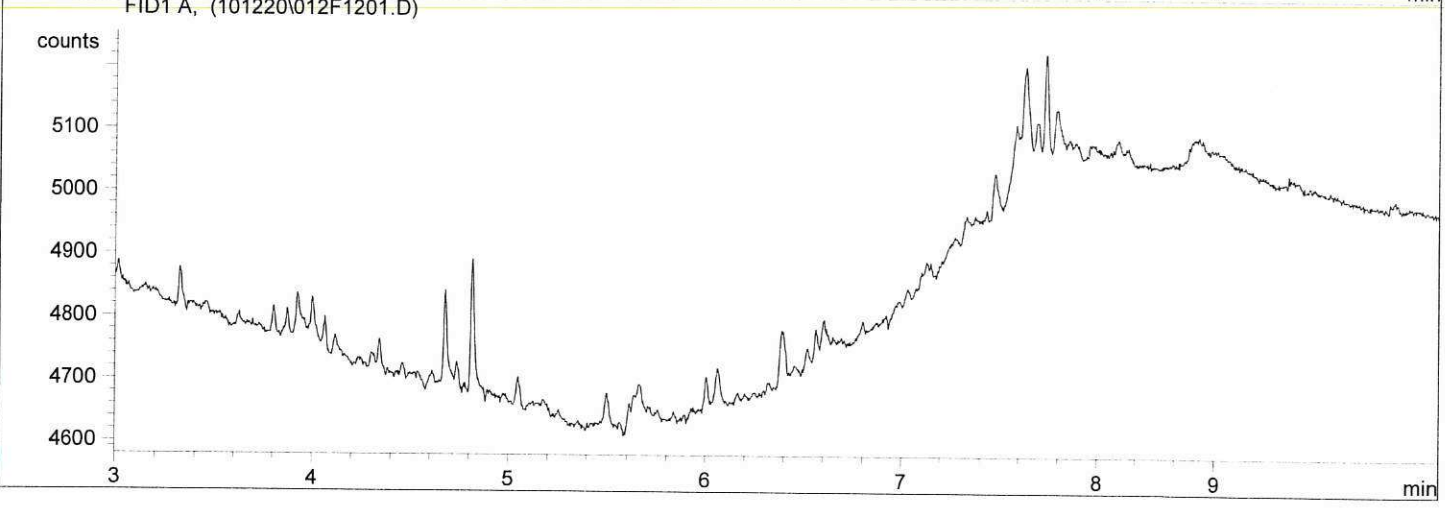
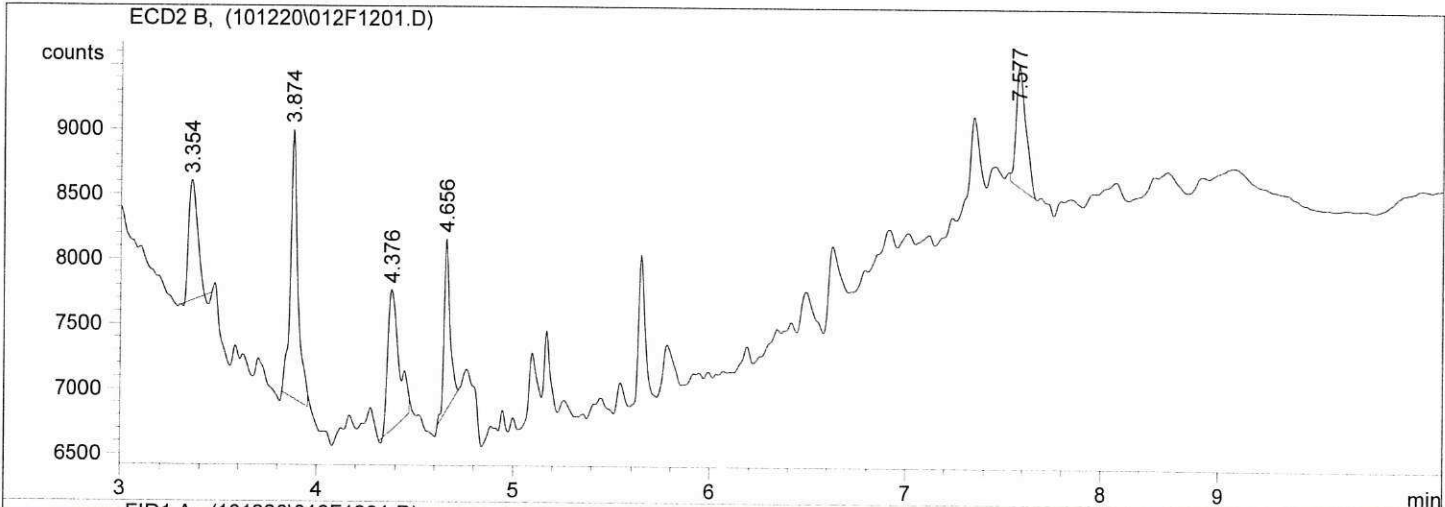
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SCREEN METHOD
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*** End of Report ***

=====
Injection Date : 10/12/2020 8:14:48 PM Seq. Line : 12
Sample Name : 20J0122 02 Location : Vial 12
Acq. Operator : DXP Inj : 1
 Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\101220.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 9/11/2020 3:50:10 PM by JGR
SCREEN METHOD
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*** End of Report ***



Extraction Parameter: SIM ALKYL PNA Extraction Batch B1J0442

Total Solids Batch: B150235 Work Order(s): 20J0036

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>1, 2</u>	<u>DeP 10/08/20</u>
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= <u>1, 2</u>	<u>DeP 10/08/20</u>
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples <u>Y/N</u> <u>1, 2</u>	<u>DeP 10/08/20</u>
<input checked="" type="checkbox"/> Multiple Jars <u>Y/N</u>	<u>DeP 10/08/20</u>
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: SIM ALKYL PNA Extraction Batch BIT442

Total Solids Batch: 2000235 Work Order(s): 2000037

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 1,3	D&P 10/08/20
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= 1, 2, 3	D&P 10/08/20
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input checked="" type="checkbox"/> Rocks (%+size)? 40% 1/8" = 2	D&P 10/08/20
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples (Y/N) ^{D&P 10/15/20} 1, 2, 3	D&P 10/08/20
<input checked="" type="checkbox"/> Multiple Jars Y/N	D&P 10/08/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: SIM ALKYL PNA Extraction Batch B170442

Total Solids Batch: B150355 Work Order(s): 2050121

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 1	DJP 10/12/20
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= 1	DJP 10/12/20
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / (N)	10/12/20 DJP
<input checked="" type="checkbox"/> Multiple Jars Y / (N)	DJP 10/12/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: SIM ALKYL PNA Extraction Batch BIJ0492

Total Solids Batch: BIJ0355 Work Order(s): 2050122

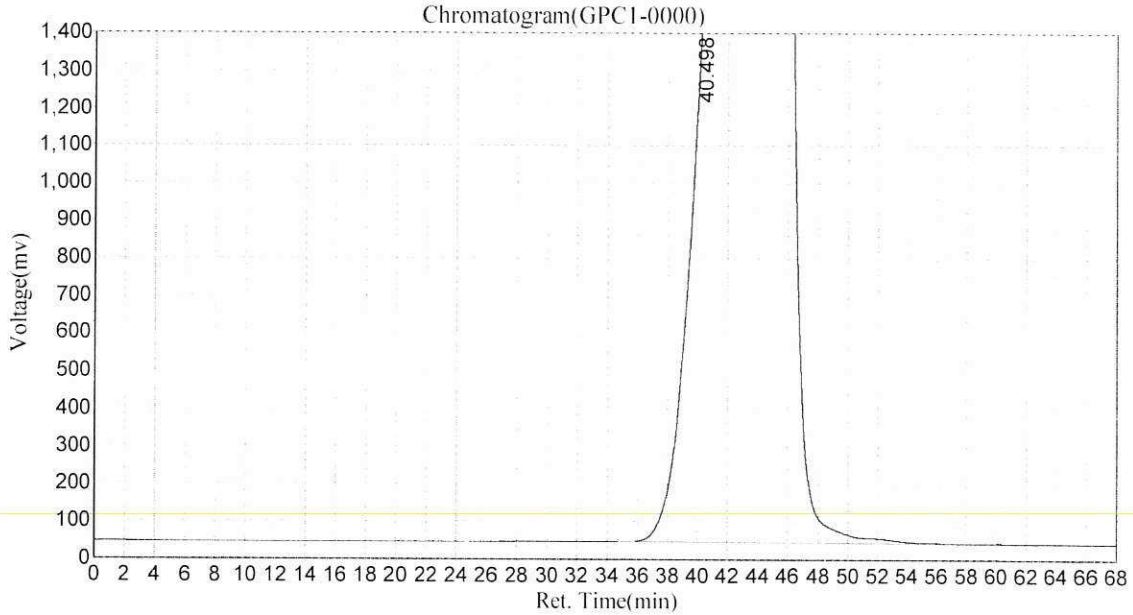
Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= <u>1, 2</u>	<u>D&P 10/12/20</u>
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= <u>1, 2</u>	<u>D&P 10/12/20</u>
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / <u>N</u>	<u>D&P 10/12/20</u>
<input checked="" type="checkbox"/> Multiple Jars Y / <u>N</u>	<u>D&P 10/12/20</u>
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

-BLK1

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date: 10/15/2020, 4:16:37 PM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0000
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: E°CTO
 Date/Time: 10/15/2020, 4:17:20 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		40.498	1380006.250	639259840.000	100.0000
Total			1380006.250	639259840.000	100.000

Ingredient Table

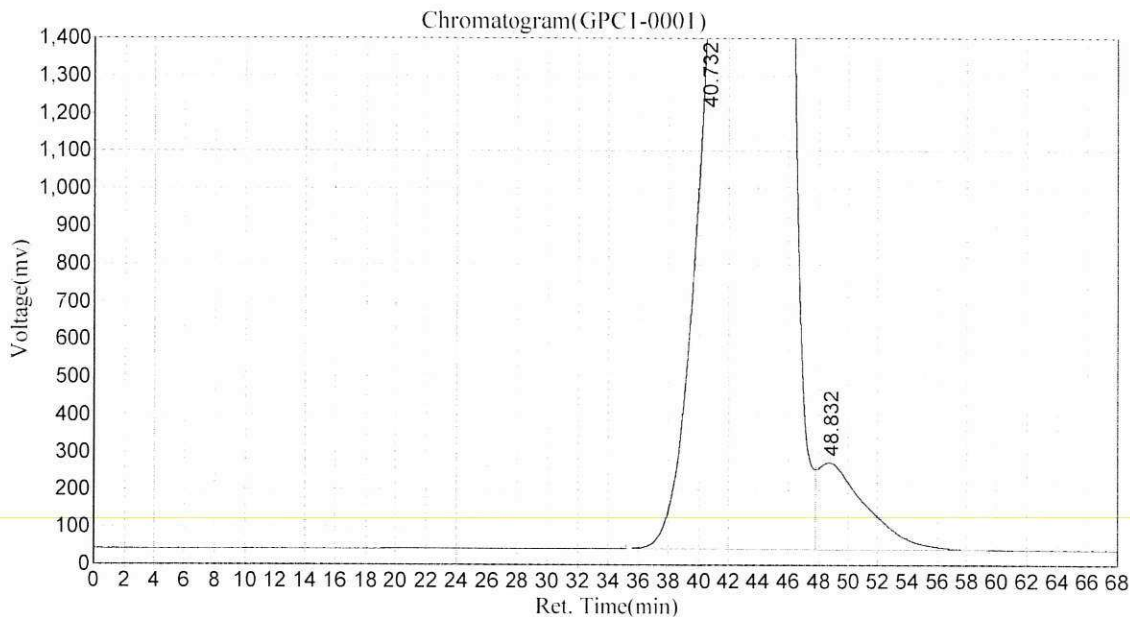
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BS1

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date:10/15/2020,5:26:23 PM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0001
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst:f°CTO
 Date/Time10/15/2020,5:26:25 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		40.732	1382767.750	620356672.000	92.1260
2		48.832	231362.438	53022108.000	7.8740
Total			1614130.188	673378780.000	100.000

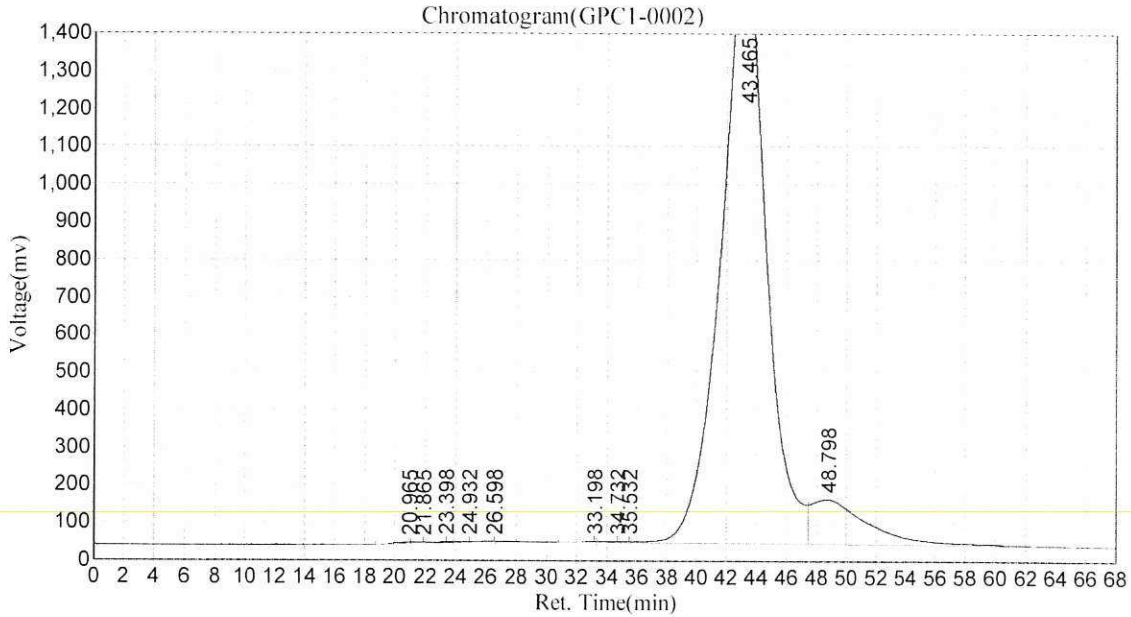
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date:10/15/2020,6:36:10 PM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0002
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst:CTO
 Date/Time:10/15/2020,6:36:11 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		20.965	4268.817	341213.188	0.0984
2		21.865	3925.627	230874.953	0.0666
3		23.398	3203.563	351954.500	0.1015
4		24.932	2197.498	154012.063	0.0444
5		26.598	1378.776	154599.281	0.0446
6		33.198	2038.485	179270.750	0.0517
7		34.732	2842.968	217178.344	0.0627
8		35.532	3357.524	149087.078	0.0430
9		43.465	1380210.500	312578560.000	90.1806
10		48.798	119452.836	32257382.000	9.3064
Total			1522876.595	346614132.156	100.000

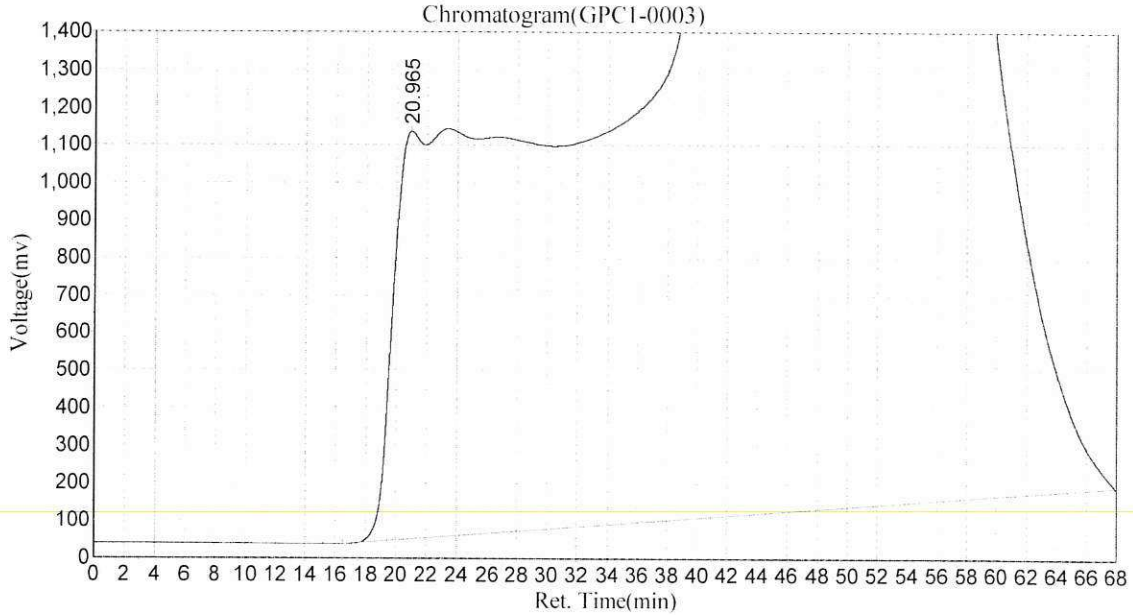
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date: 10/15/2020, 7:45:58 PM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0003
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: £°CTO
 Date/Time: 10/15/2020, 7:45:59 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		20.965	1084731.125	3063322112.000	100.0000
Total			1084731.125	3063322112.000	100.000

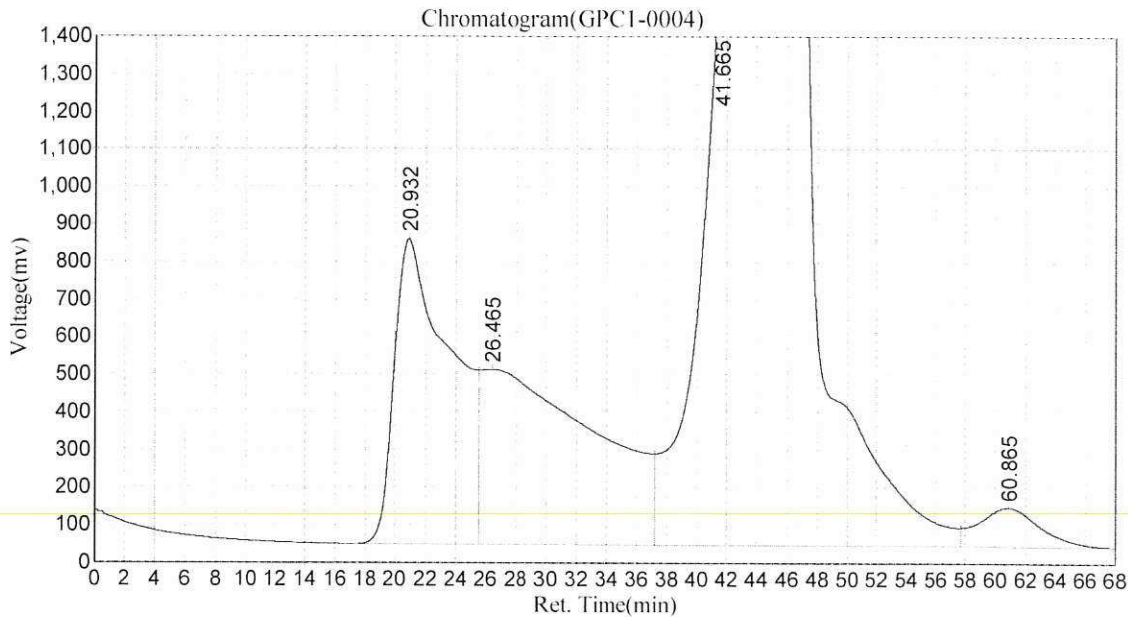
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036(37)121/122 20J0013/95/148 BAN/PEST

Date:10/15/2020,8:55:44 PM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0004
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst£°CTO
 Date/Time10/15/2020,8:55:45 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		20.932	811721.063	212452672.000	16.6320
2		26.465	465289.125	245487328.000	19.2181
3		41.665	1379161.500	789795200.000	61.8295
4		60.865	104072.133	29640940.000	2.3205
Total			2760243.820	1277376140.000	100.000

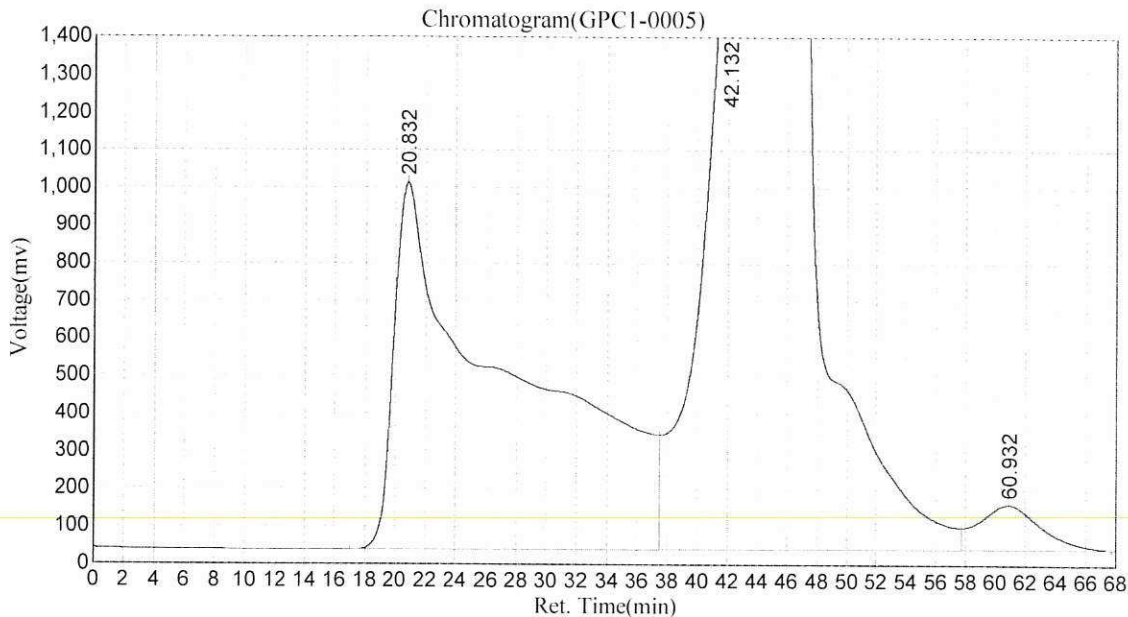
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date:10/15/2020,10:05:32 PM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0005
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst:CTO
 Date/Time:10/15/2020,10:05:33 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		20.832	976035.563	529628320.000	38.3300
2		42.132	1385149.875	817839936.000	59.1882
3		60.932	119362.266	34292792.000	2.4818
Total			2480547.703	1381761048.000	100.000

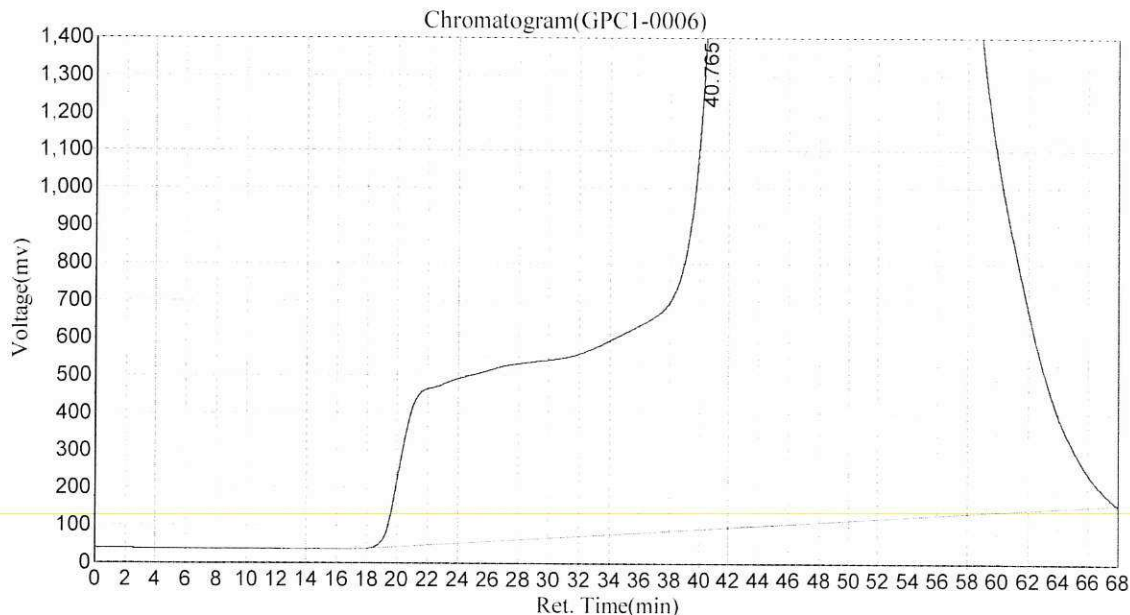
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date: 10/15/2020, 11:15:18 PM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0006
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: £°CTO
 Date/Time: 10/15/2020, 11:15:19 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		40.765	1332322.875	2314407936.000	100.0000
Total			1332322.875	2314407936.000	100.000

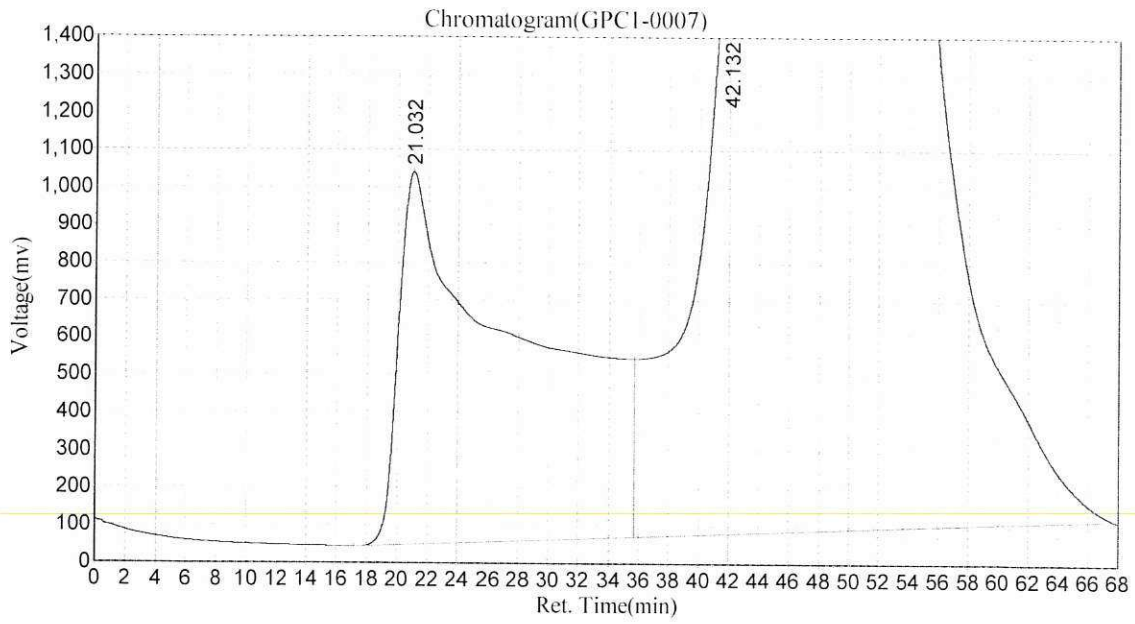
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 **BAN/PEST**

Date: 10/16/2020, 12:25:07 AM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0007
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: £°CTO
 Date/Time: 10/16/2020, 12:25:08 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		21.032	992745.875	573408704.000	25.9438
2		42.132	1344430.875	1636791168.000	74.0563
Total			2337176.750	2210199872.000	100.000

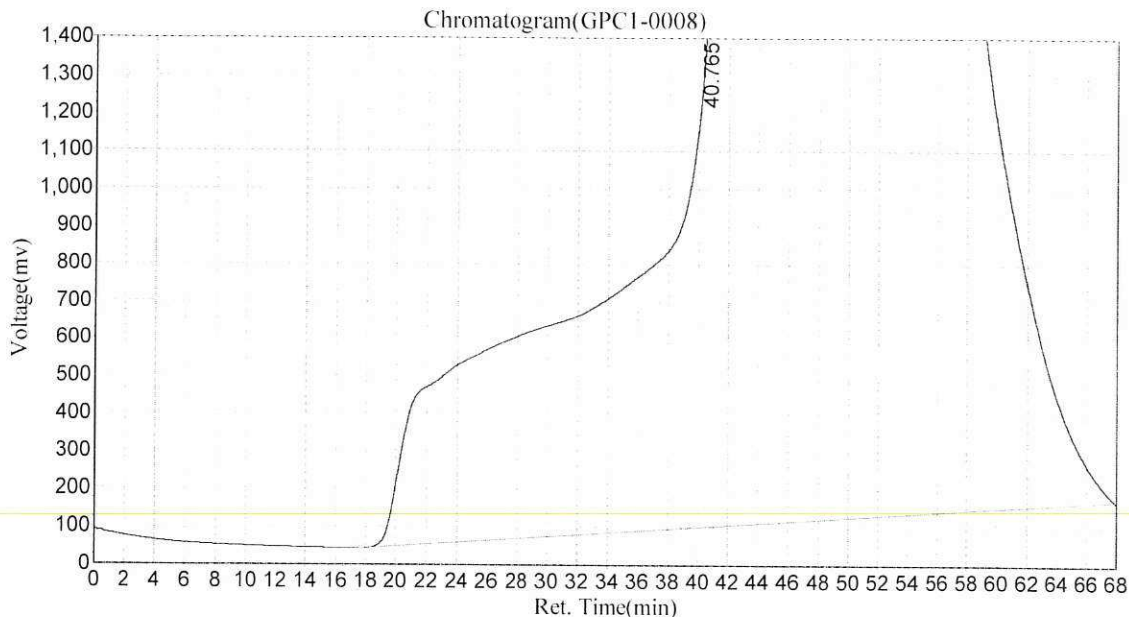
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 **BAN/PEST**

Date:10/16/2020,1:34:53 AM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0008
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst£°CTO
 Date/Time10/16/2020,1:34:55 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		40.765	1323199.875	2410135808.000	100.0000
Total			1323199.875	2410135808.000	100.000

Ingredient Table

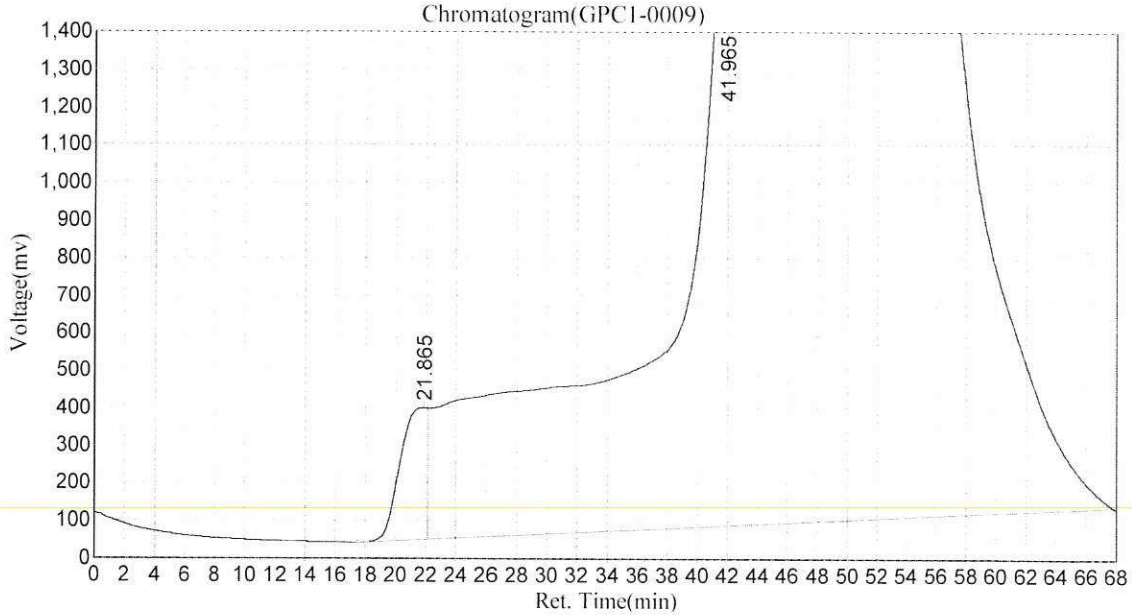
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

MSI

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date:10/16/2020,2:44:42 AM
 Data File:c:\n2000\data\gpc1\101520\GPC1-0009
 Method File:C:\N2000\GPC1_InHouse.mtd

Analyst:CTO
 Date/Time10/16/2020,2:44:43 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		21.865	348930.813	42884612.000	2.0384
2		41.965	1336423.500	2060954496.000	97.9616
Total			1685354.313	2103839108.000	100.000

Ingredient Table

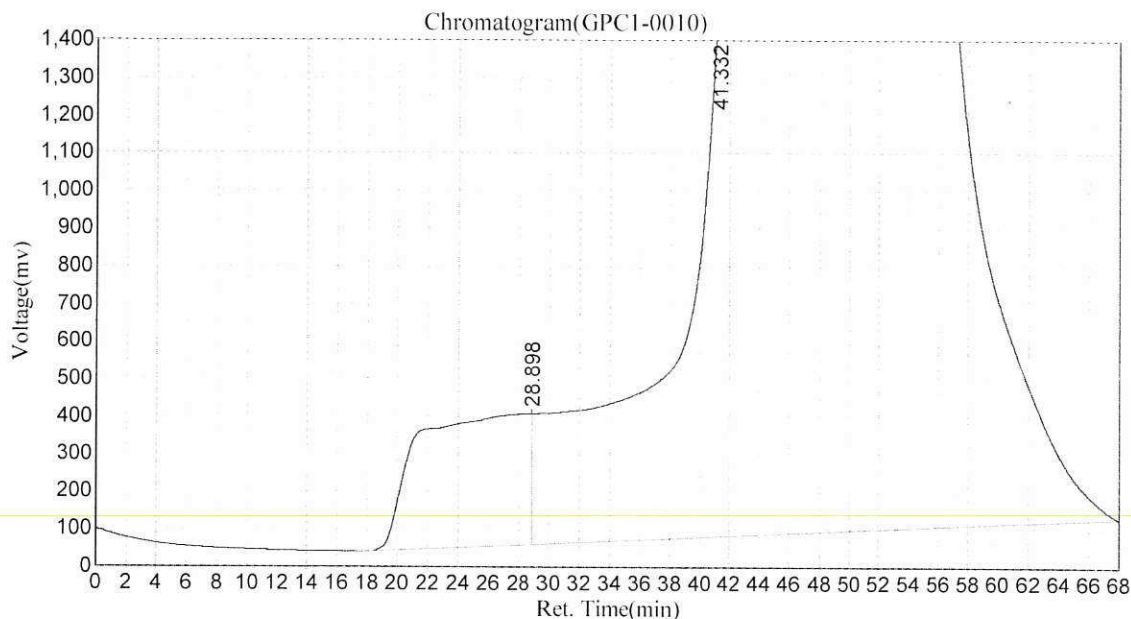
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

-MSD1

BIJ422/396 20J0036/37/121/122 20J0013/95/148 BAN/PEST

Date: 10/16/2020, 3:54:28 AM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0010
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: £°CTO
 Date/Time: 10/16/2020, 3:54:30 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		28.898	347245.094	174491520.000	8.5214
2		41.332	1343222.000	1873185408.000	91.4786
Total			1690467.094	2047676928.000	100.000

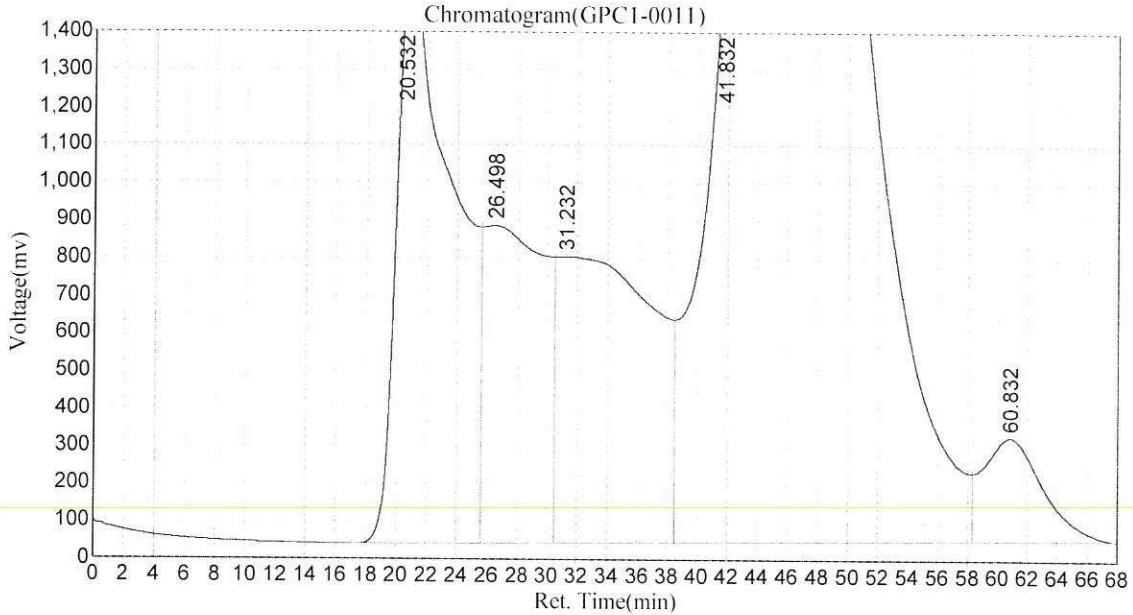
Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000

BIJ422/396 20J0036/37/121/122 20J0013/95/148 **BAN/PEST**

Date: 10/16/2020, 5:04:17 AM
 Data File: c:\n2000\data\gpc1\101520\GPC1-0011
 Method File: C:\N2000\GPC1_InHouse.mtd

Analyst: E°CTO
 Date/Time: 10/16/2020, 5:04:18 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		20.532	1385069.875	394023584.000	17.6677
2		26.498	843531.063	236395904.000	10.5998
3		31.232	760505.500	336268960.000	15.0780
4		41.832	1379176.875	1185958912.000	53.1775
5		60.832	274948.125	77543992.000	3.4770
Total			4643231.438	2230191352.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1		30.000	0.010	0.00E+000	0.00E+000	0.0000
2	Collect Pest	36.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump Pest	60.000	0.010	0.00E+000	0.00E+000	0.0000
4	Dump BAN	60.000	0.010	0.00E+000	0.00E+000	0.0000



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Cleanup Batch: CIJ0158

Cleanup Type: GPC

Cleanup Method: EPA 3640A GPC Cleanup 1:1

Analysis: EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-055SG-201006	20J0121-01	NT1420102005.D	10/15/2020	
USMPDI-055SG-201006	20J0121-01	NT1420102005S.D	10/15/2020	
Blank	BIJ0442-BLK1	NT1420102003.D	10/15/2020	
Blank	BIJ0442-BLK2	NT1420102003S.D	10/15/2020	
LCS	BIJ0442-BS1	NT1420102004.D	10/15/2020	



CLEANUP BENCH SHEET

CIJ0158

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Printed: 10/18/2020 7:13:23PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
20J0122-02	A	NCPDI-073SG-00-9.2-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0122-02	A	NCPDI-073SG-00-9.2-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0122-01	A	NCPDI-072SG-00-10.3-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0121-01	A	USMPDI-055SG-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0121-01	A	USMPDI-055SG-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0122-01	A	NCPDI-072SG-00-10.3-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0036-02	A	NCPDI-024SG-201001	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0036-02	A	NCPDI-024SG-201001	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0037-01	A	NCPDI-017SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0037-01	A	NCPDI-017SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0037-02	A	NCPDI-1017SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0037-02	A	NCPDI-1017SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0037-03	A	NCPDI-022SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0037-03	A	NCPDI-022SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
20J0036-01	A	NCPDI-023SG-201001	A 02	5	5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/15/2020	CTO	
20J0036-01	A	NCPDI-023SG-201001	A 03	5	5	70E-SIM Alkyl PAH (Range) Dual Sc	10/15/2020	CTO	
BIJ0442-MSD2	-	Matrix Spike Dup	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-BS1	-	LCS	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-BS2	-	LCS	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-MS1	-	Matrix Spike	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-MS2	-	Matrix Spike	-	0.5	0.5	-	10/15/2020	CTO	



CLEANUP BENCH SHEET

CIJ0158

Matrix: Solid

Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1

Printed: 10/18/2020 7:13:23PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BIJ0442-BLK1	-	Blank	-	0.5	0.5	-	10/15/2020	CTO	
BIJ0442-BLK2	-	Blank	-	0.5	0.5	-	10/15/2020	CTO	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Cleanup Batch: CIJ0159

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-055SG-201006	20J0121-01	NT1420102005.D	10/18/2020	
USMPDI-055SG-201006	20J0121-01	NT1420102005S.D	10/18/2020	
Blank	BIJ0442-BLK1	NT1420102003.D	10/18/2020	
Blank	BIJ0442-BLK2	NT1420102003S.D	10/18/2020	
LCS	BIJ0442-BS1	NT1420102004.D	10/18/2020	



CLEANUP BENCH SHEET

CIJ0159

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Printed: 10/18/2020 7:14:30PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
20J0122-02	A	NCPDI-073SG-00-9.2-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0122-02	A	NCPDI-073SG-00-9.2-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0122-01	A	NCPDI-072SG-00-10.3-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0121-01	A	USMPDI-055SG-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0121-01	A	USMPDI-055SG-201006	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0122-01	A	NCPDI-072SG-00-10.3-201006	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0036-02	A	NCPDI-024SG-201001	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0036-02	A	NCPDI-024SG-201001	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0037-01	A	NCPDI-017SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0037-01	A	NCPDI-017SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0037-02	A	NCPDI-1017SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0037-02	A	NCPDI-1017SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0037-03	A	NCPDI-022SG-200930	A 02	0.5	0.5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0037-03	A	NCPDI-022SG-200930	A 03	0.5	0.5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
20J0036-01	A	NCPDI-023SG-201001	A 02	5	5	70E-SIM Alkyl PAH (Parents) Dual Sc	10/18/2020	CCT	
20J0036-01	A	NCPDI-023SG-201001	A 03	5	5	70E-SIM Alkyl PAH (Range) Dual Sc	10/18/2020	CCT	
BIJ0442-MSD2	-	Matrix Spike Dup	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-MSD1	-	Matrix Spike Dup	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-BS1	-	LCS	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-BS2	-	LCS	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-MS1	-	Matrix Spike	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-MS2	-	Matrix Spike	-	0.5	0.5	-	10/18/2020	CCT	



CLEANUP BENCH SHEET

CIJ0159

Matrix: Solid

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Printed: 10/18/2020 7:14:30PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BIJ0442-BLK1	-	Blank	-	0.5	0.5	-	10/18/2020	CCT	
BIJ0442-BLK2	-	Blank	-	0.5	0.5	-	10/18/2020	CCT	



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory: Analytical Resources, Inc. SDG: 20J0121
 Client: Anchor QEA, LLC Project: GascoSiltronic
 Matrix: Solid Laboratory ID: BIJ0442-BLK1 File ID: NT1420102003.D
 Sampled: N/A Prepared: 10/14/20 11:58 Analyzed: 10/20/20 10:58
 Solids: Preparation: EPA 3546 (Microwave) Initial/Final: 10 g / 0.5 mL
 Batch: BIJ0442 Sequence: SIJ0286 Calibration: DJ00029
 Instrument: NT14 Column: ZB-5MS Cleanups: GPC, Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
493-02-7	trans-Decalin	1	5.0	U	0.03	5.0
493-01-6	cis-Decalin	1	5.0	U	0.5	5.0
91-20-3	Naphthalene	1	1.3	J	0.4	5.0
90-12-0	1-Methylnaphthalene	1	5.0	U	0.4	5.0
91-57-6	2-Methylnaphthalene	1	5.0	U	0.4	5.0
92-52-4	Biphenyl	1	5.0	U	0.3	5.0
581-42-0	2,6-Dimethylnaphthalene	1	5.0	U	0.4	5.0
208-96-8	Acenaphthylene	1	5.0	U	0.3	5.0
83-32-9	Acenaphthene	1	5.0	U	0.5	5.0
132-64-9	Dibenzofuran	1	5.0	U	0.4	5.0
2245-38-7	2,3,5-Trimethylnaphthalene	1	5.0	U	0.4	5.0
86-73-7	Fluorene	1	5.0	U	0.5	5.0
95-15-8	Benzo(b)thiophene	1	5.0	U	0.4	5.0
85-01-8	Phenanthrene	1	1.6	J	0.9	5.0
120-12-7	Anthracene	1	5.0	U	0.05	5.0
86-74-8	Carbazole	1	5.0	U	0.7	5.0
832-69-9	1-Methylphenanthrene	1	5.0	U	0.5	5.0
206-44-0	Fluoranthene	1	2.8	J	1.4	5.0
132-65-0	Dibenzothiophene	1	5.0	U	0.7	5.0
129-00-0	Pyrene	1	5.0	U	1.0	5.0
56-55-3	Benzo(a)anthracene	1	5.0	U	1.4	5.0
218-01-9	Chrysene	1	2.0	J	0.7	5.0
205-99-2	Benzo(b)fluoranthene	1	1.1	J	0.8	5.0
205-82-3	Benzo(j)fluoranthene	1	5.0	U	0.7	5.0
207-08-9	Benzo(k)fluoranthene	1	5.0	U	0.8	5.0
	Benzo(a)fluoranthene, Total	1	10.0	U	3.0	10.0
197-97-2	Benzo(e)pyrene	1	5.0	U	0.6	5.0
50-32-8	Benzo(a)pyrene	1	5.0	U	1.0	5.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	5.0	U	0.4	5.0
53-70-3	Dibenzo(a,h)anthracene	1	5.0	U	0.7	5.0
191-24-2	Benzo(g,h,i)perylene	1	5.0	U	0.5	5.0
1985-5-0	Perylene	1	5.0	U	0.4	5.0
239-35-0	Benzo(b)naphtho(2,1-d)thiophene	1	5.0	U	5.0	5.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Naphthalene-d8	150.00	83.3	55.5	30 - 160	



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0121</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BIJ0442-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>10/14/20 11:58</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BIJ0442</u>	Sequence:	<u>SIJ0286</u>
Instrument:	<u>NT14</u>	Column:	<u>ZB-5MS</u>
		Cleanups:	<u>GPC, Silica Gel</u>

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Acenaphthene-d10	150.00	78.4	52.3	30 - 160	
Phenanthrene-d10	150.00	112	74.6	30 - 160	
Chrysene-d12	150.00	105	69.8	30 - 160	
Perylene-d12	150.00	98.1	65.4	30 - 160	

Data File: \\target\share\chem3\nt14,1\20201020,16\NT1420102003.D

Date : 20-OCT-2020 10:58

Client ID:

Sample Info: B100442-BLK1

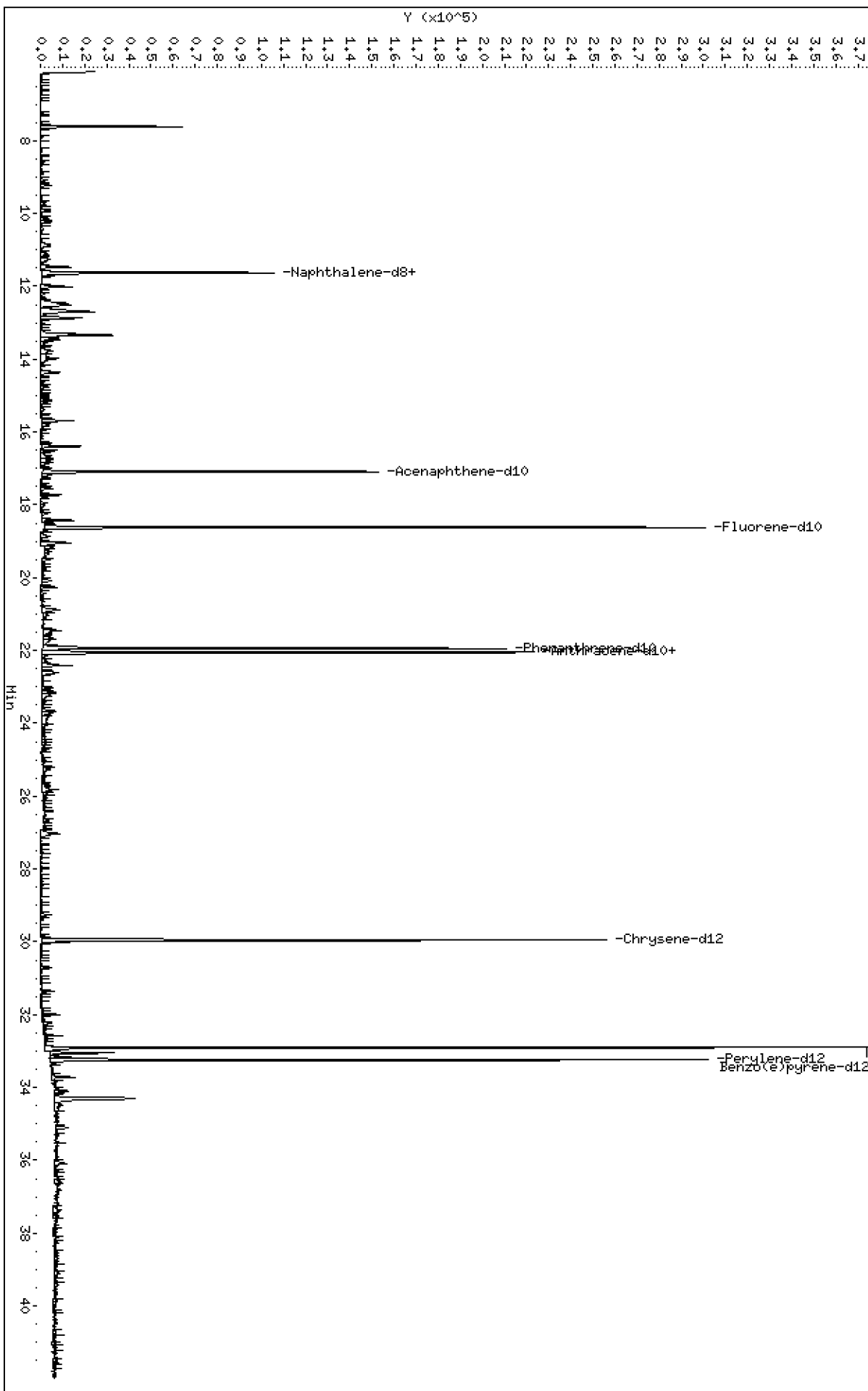
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201020,16\NT1420102003.D



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

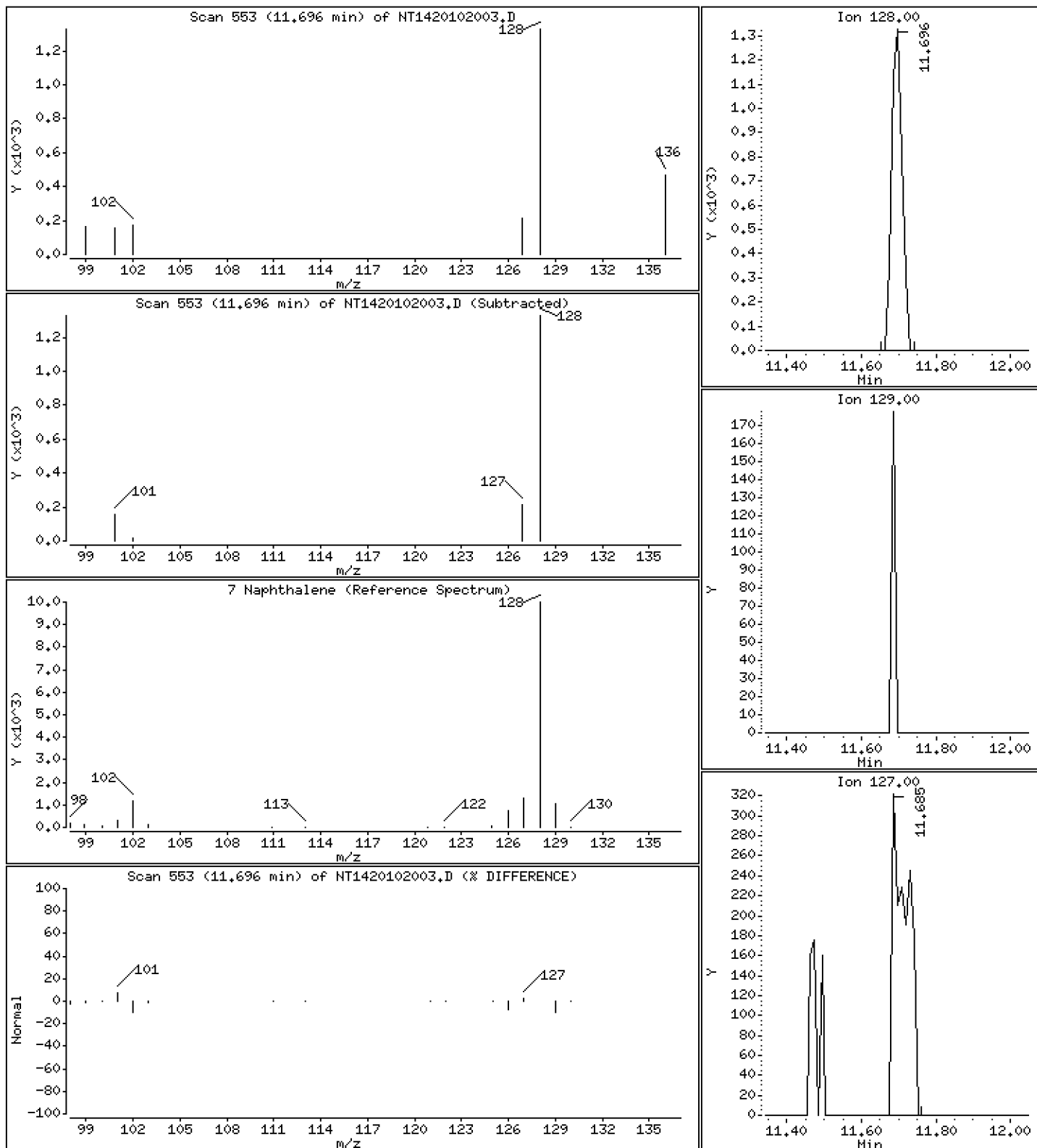
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 0,02617 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

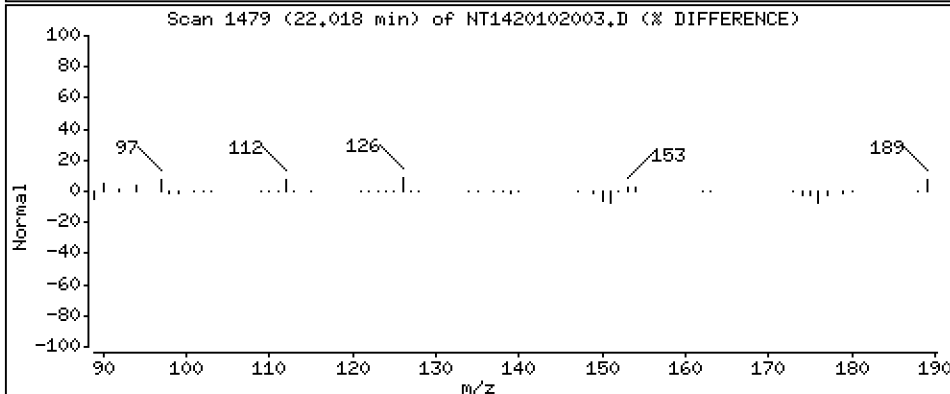
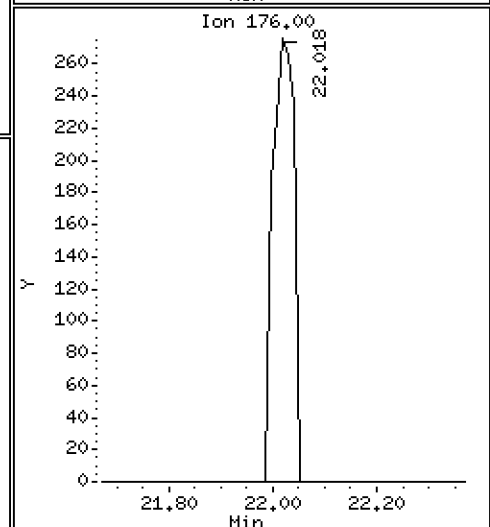
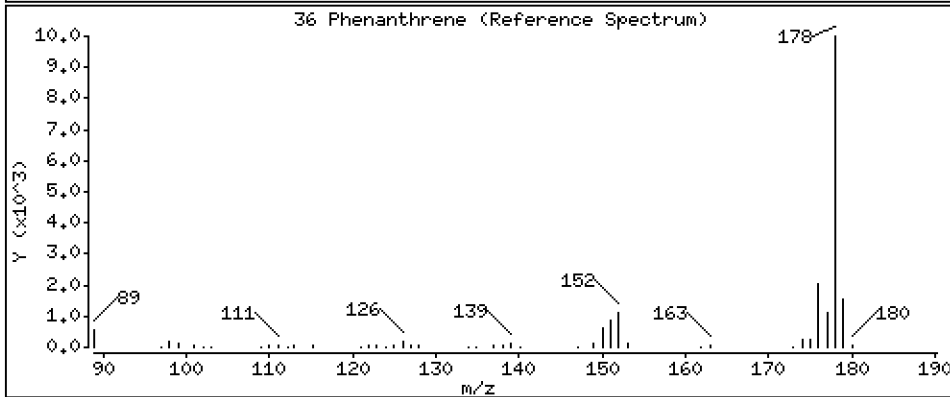
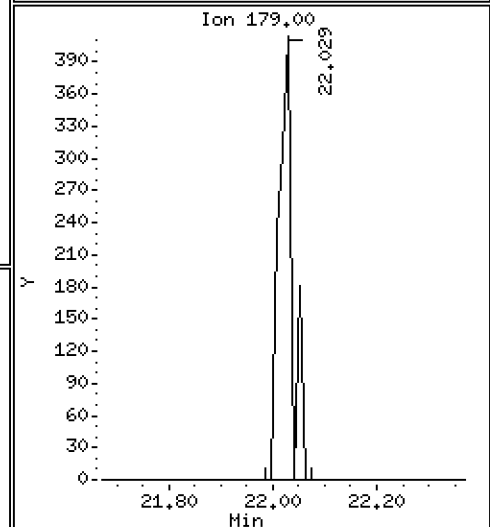
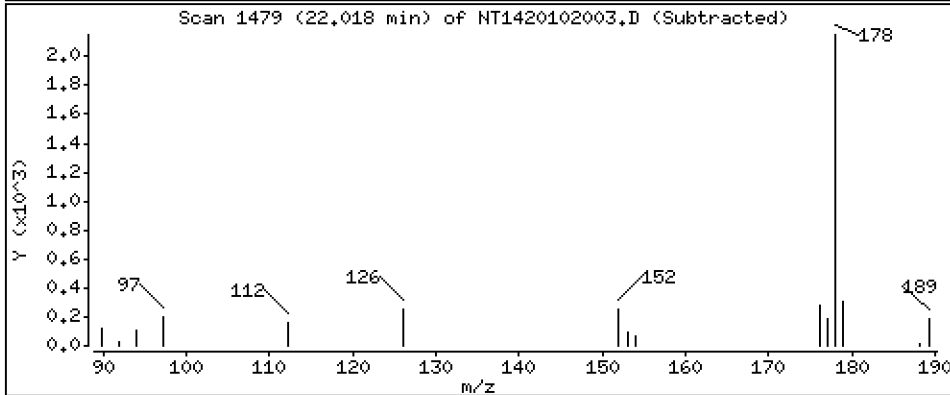
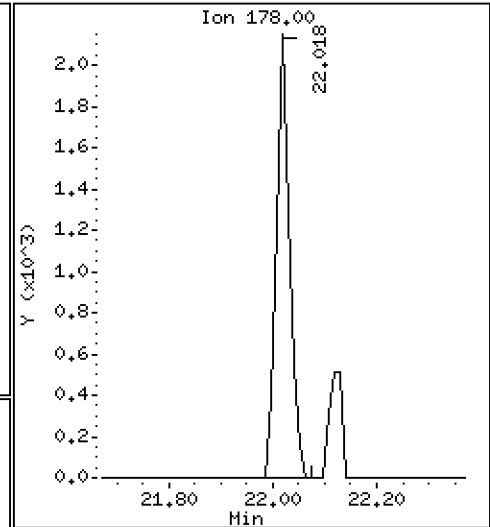
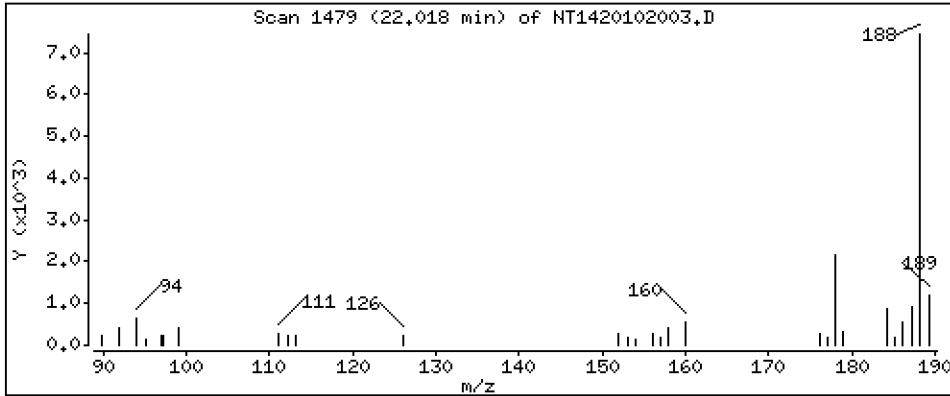
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

36 Phenanthrene

Concentration: 0,03132 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

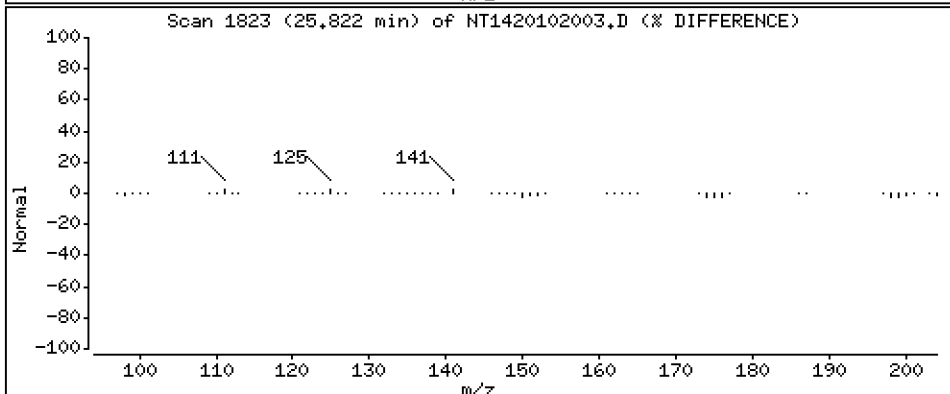
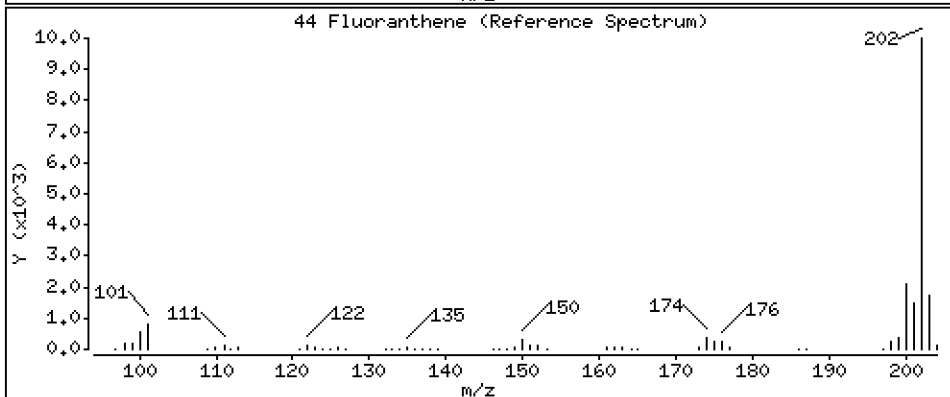
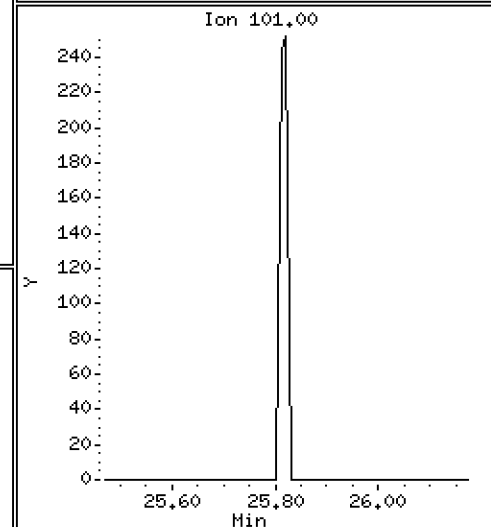
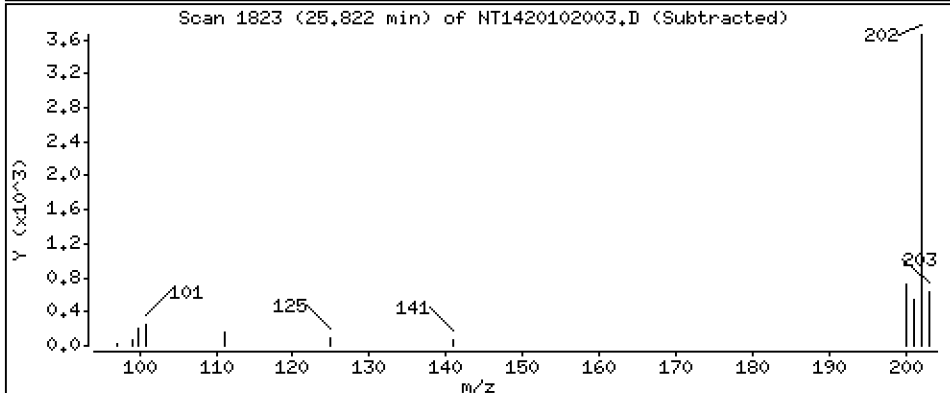
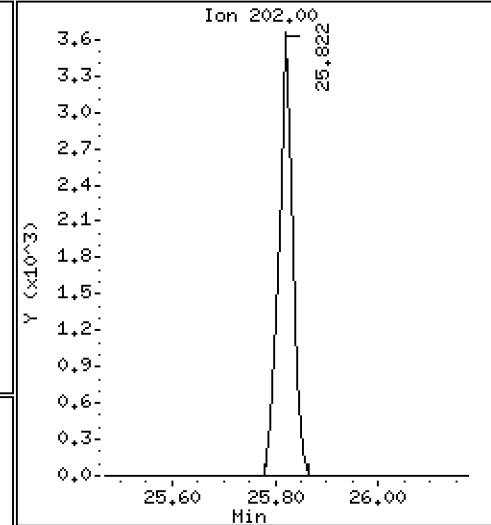
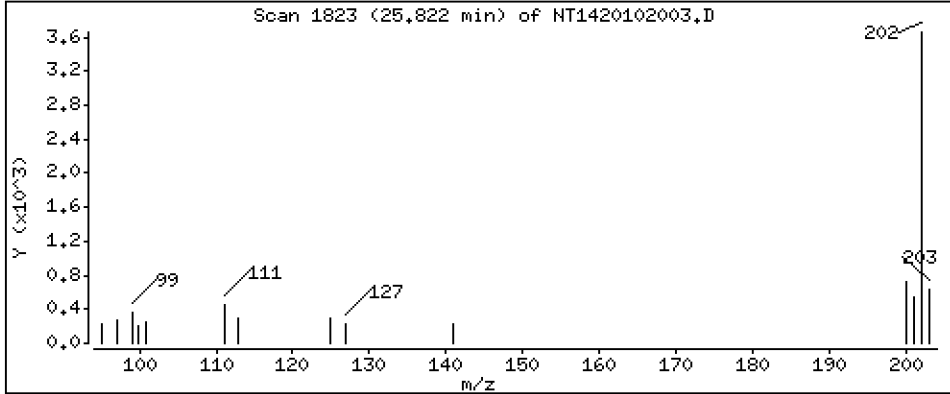
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 0,05542 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

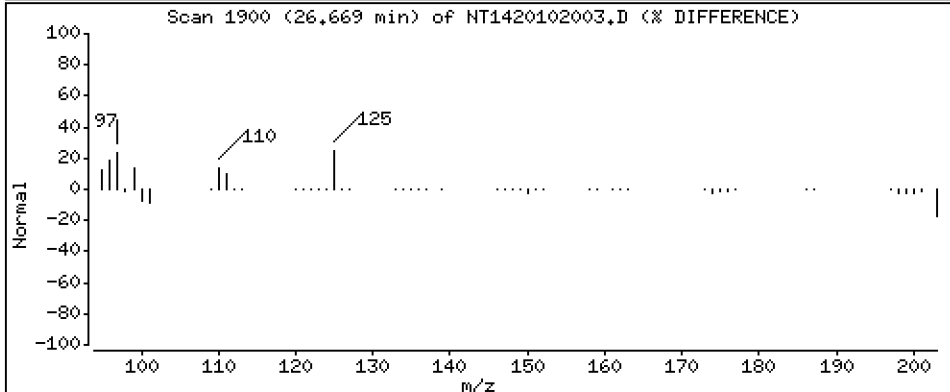
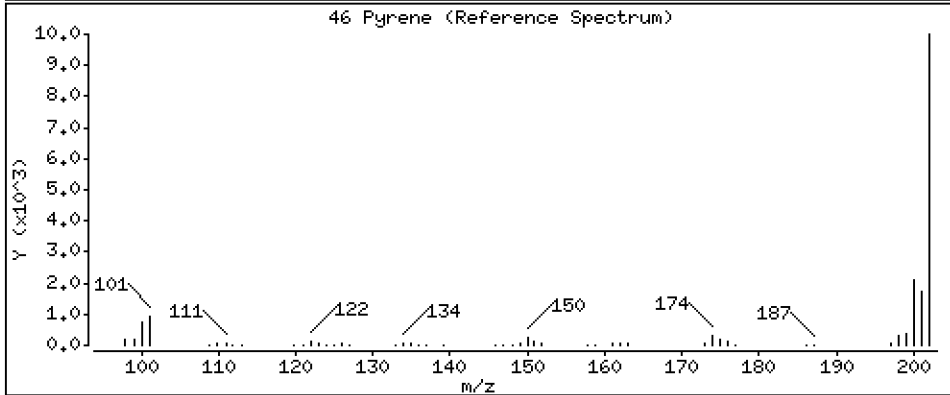
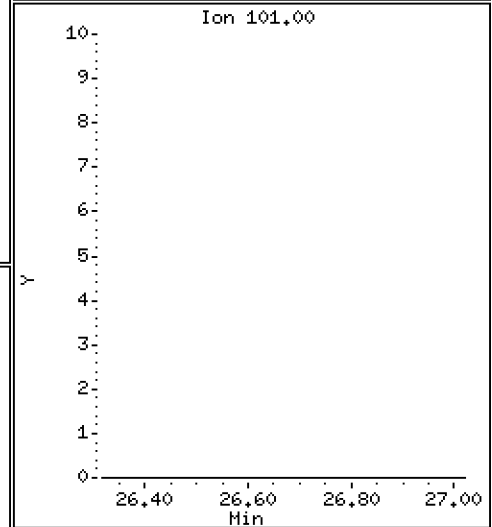
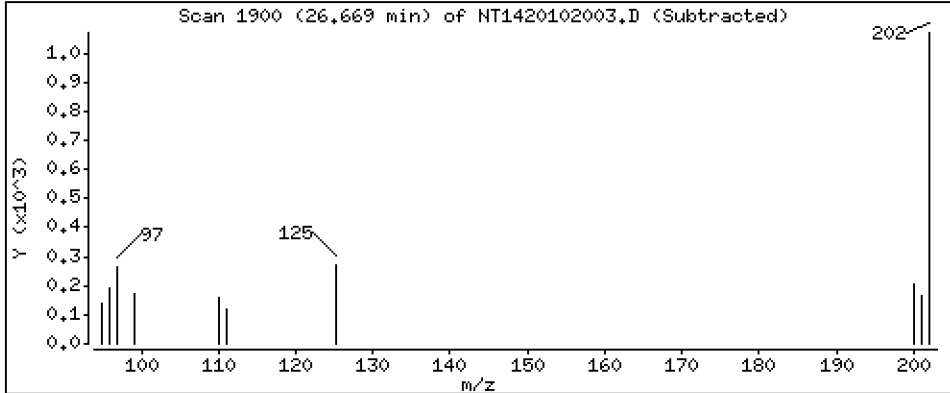
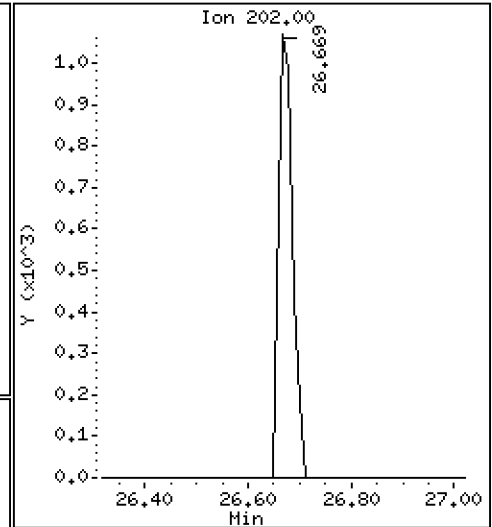
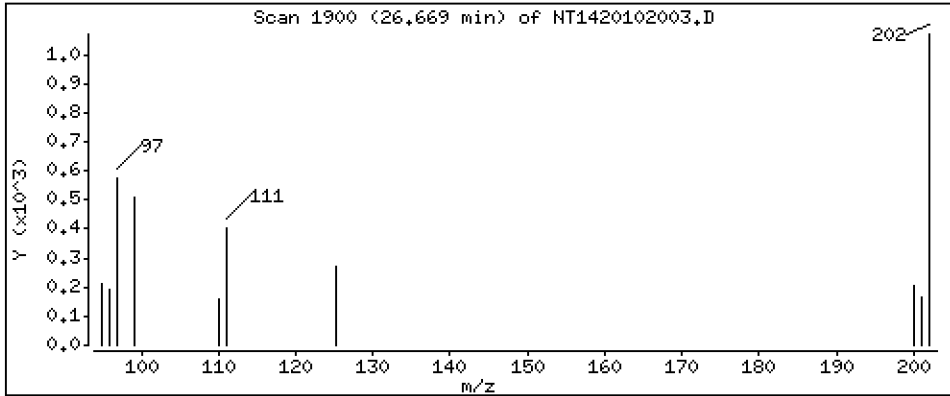
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 0,01562 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

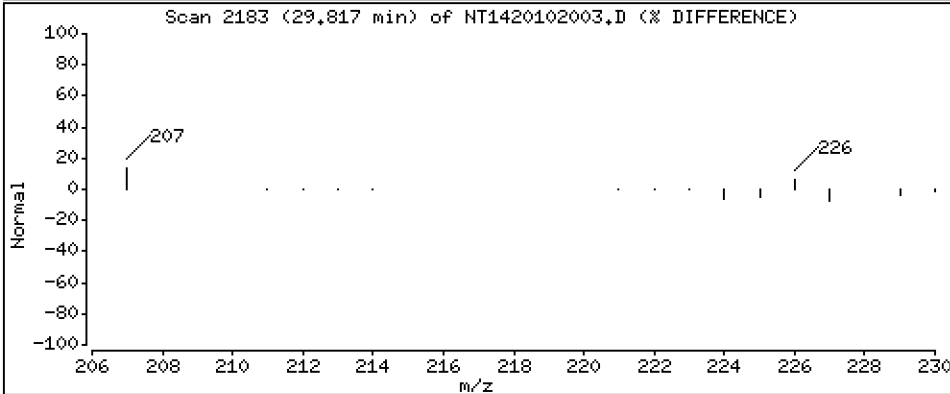
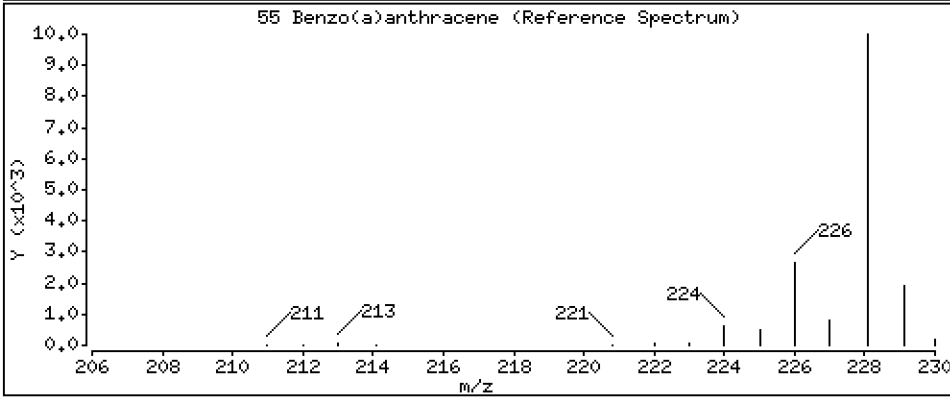
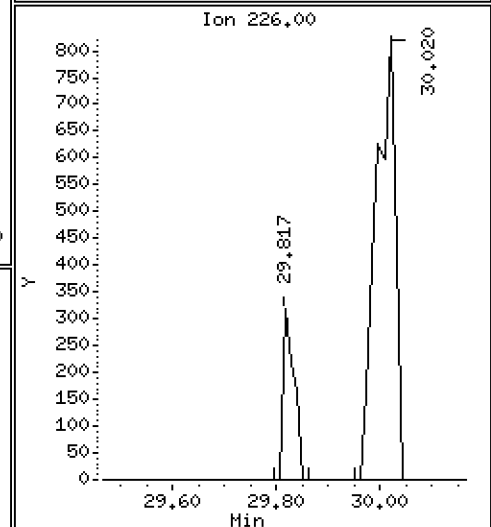
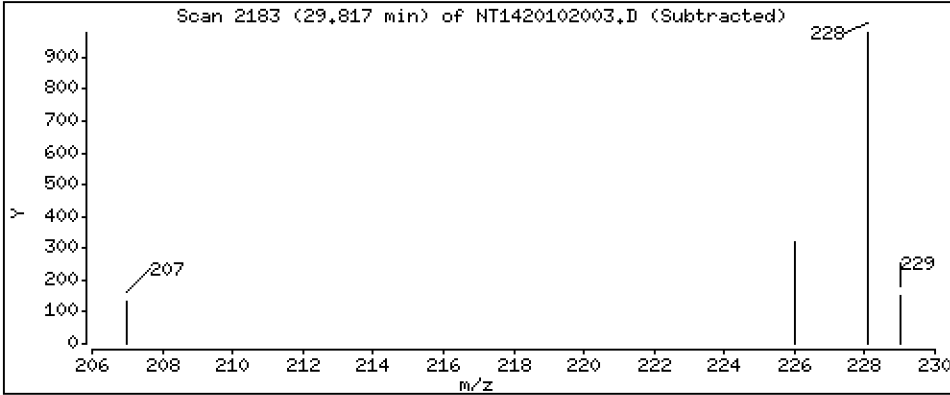
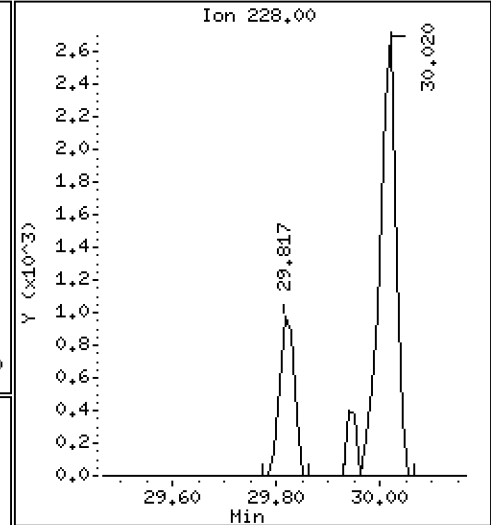
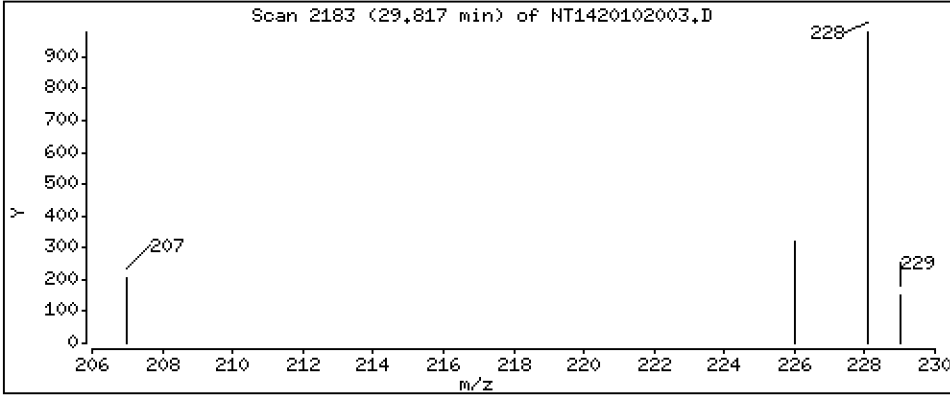
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 0,01398 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

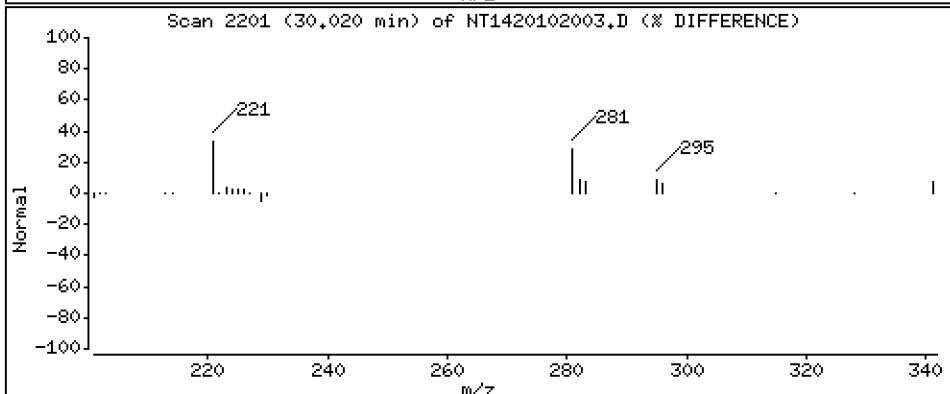
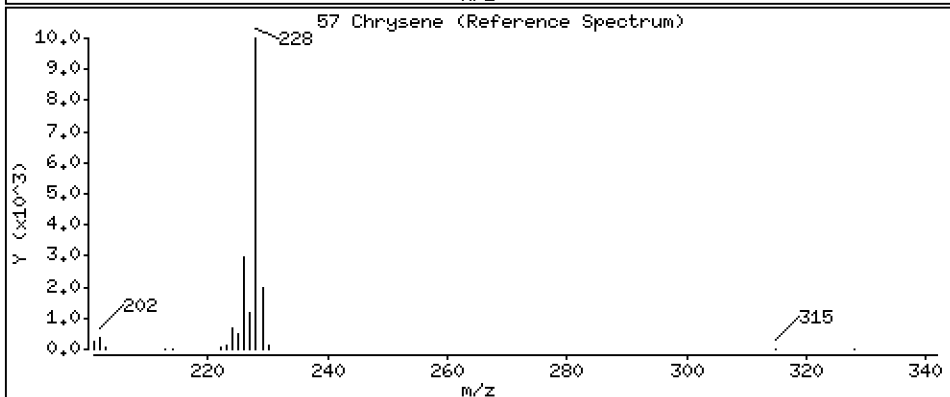
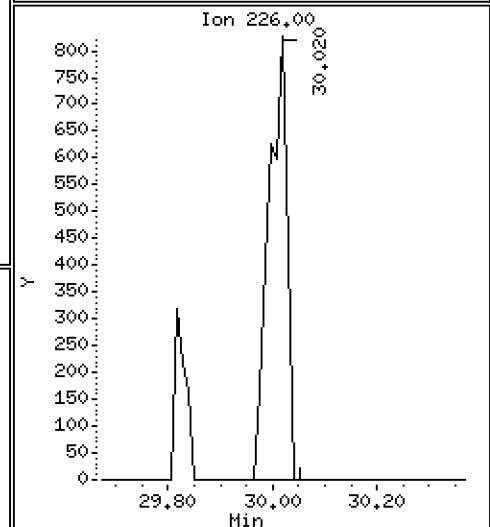
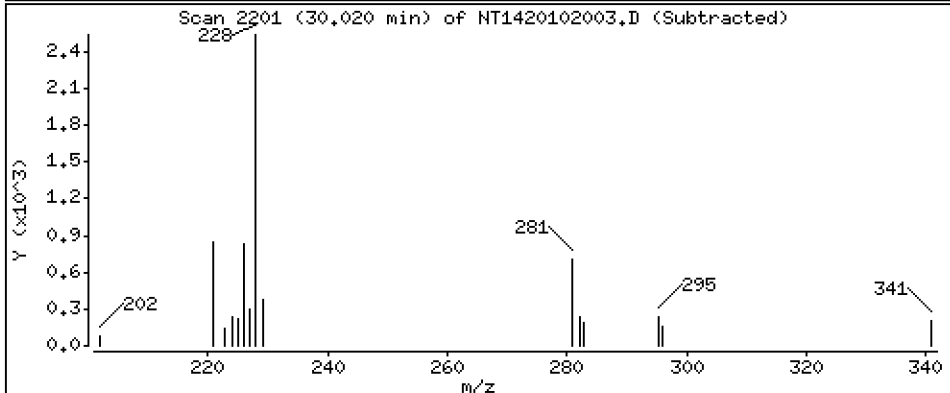
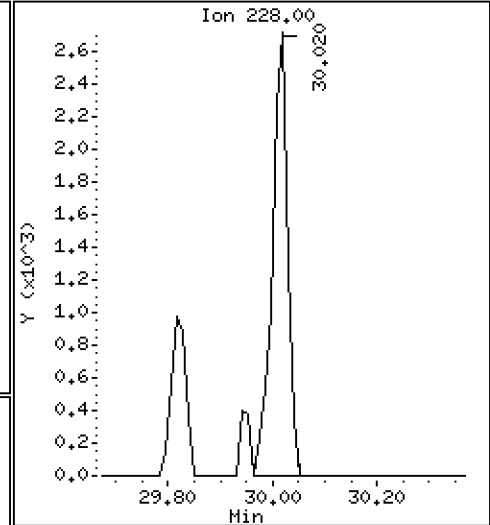
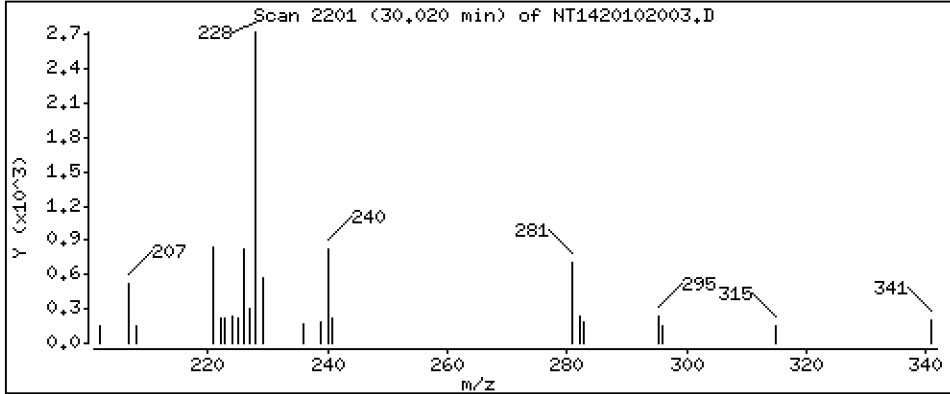
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 0,04025 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

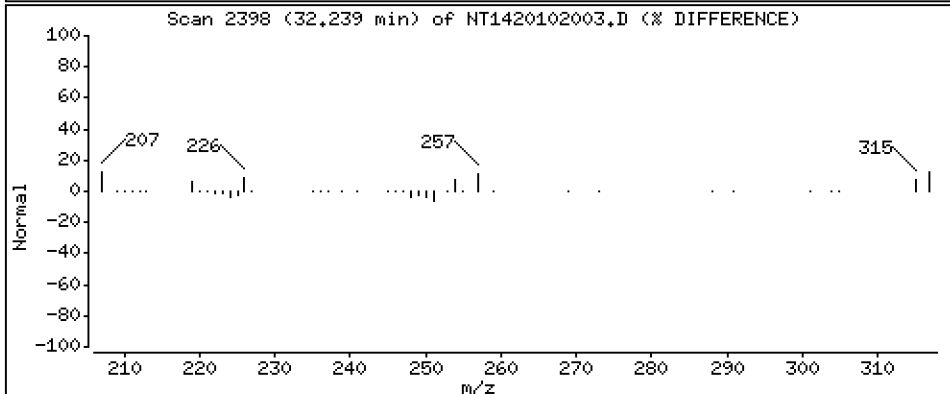
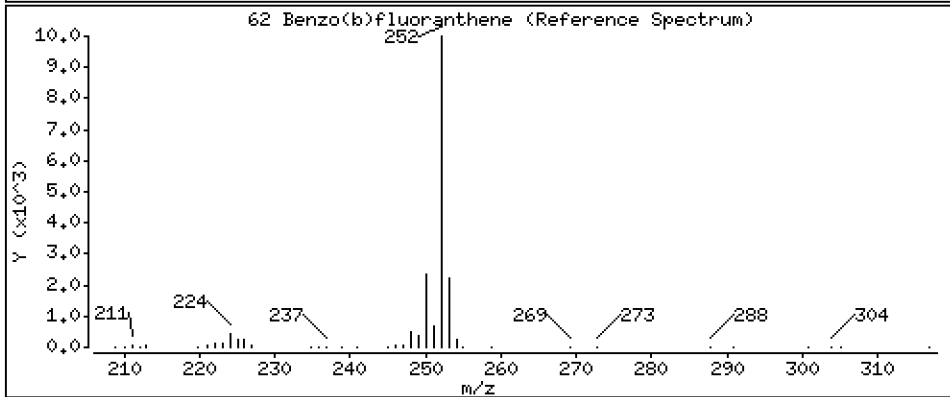
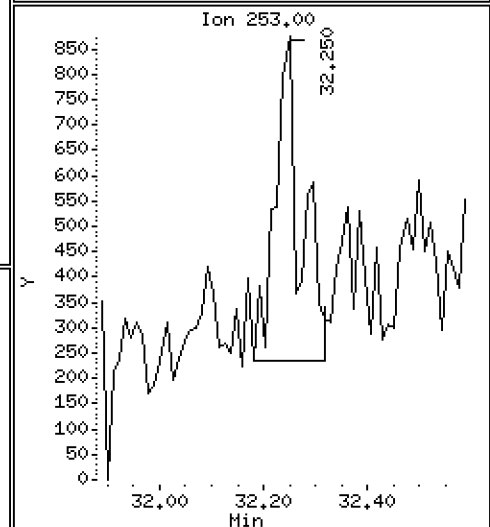
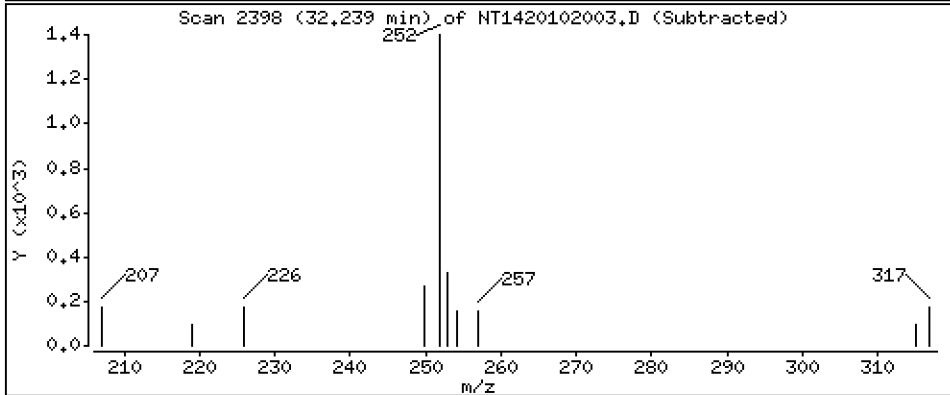
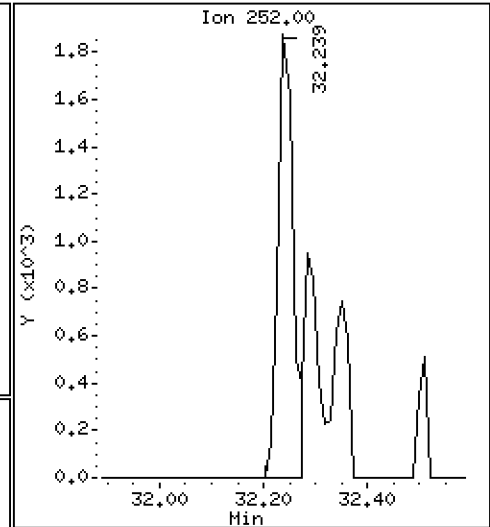
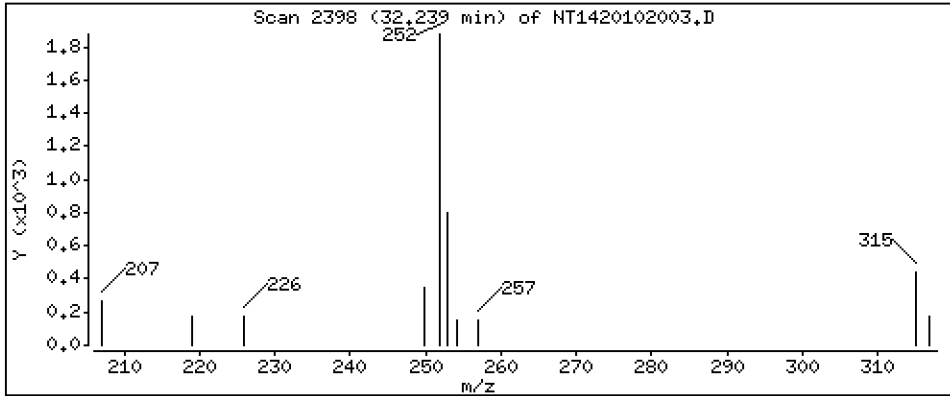
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 0,02245 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

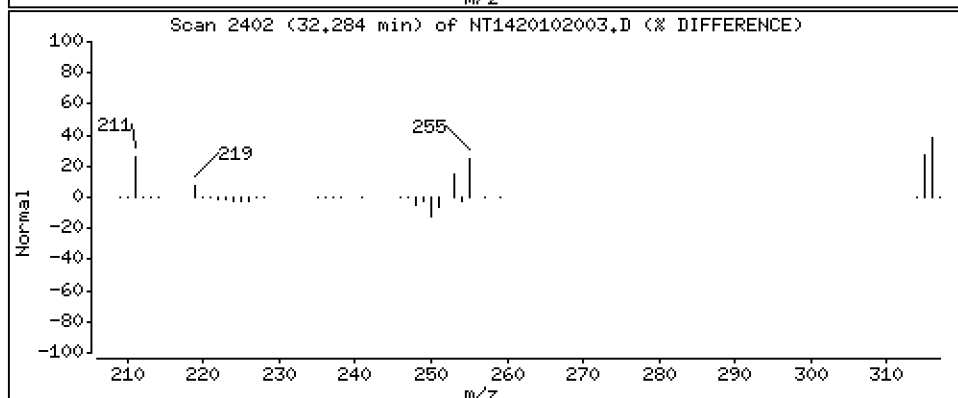
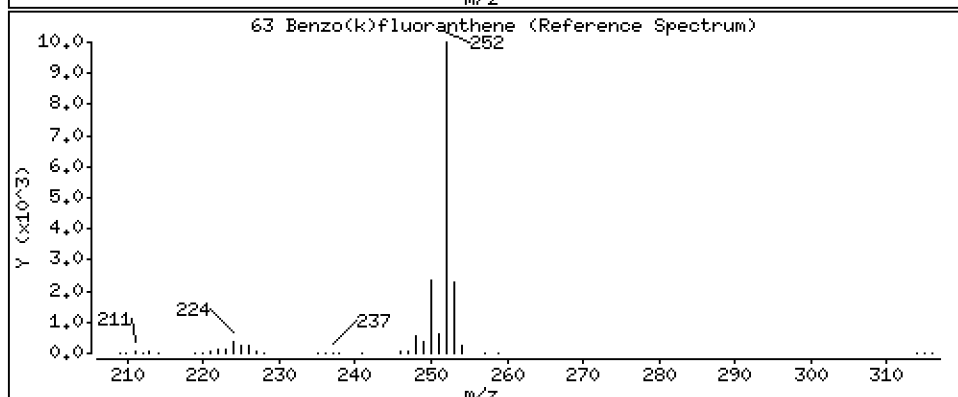
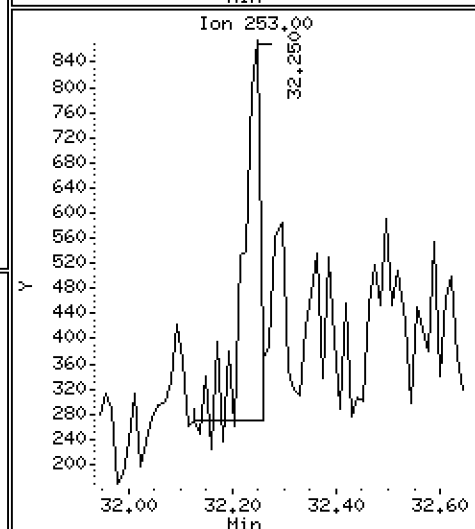
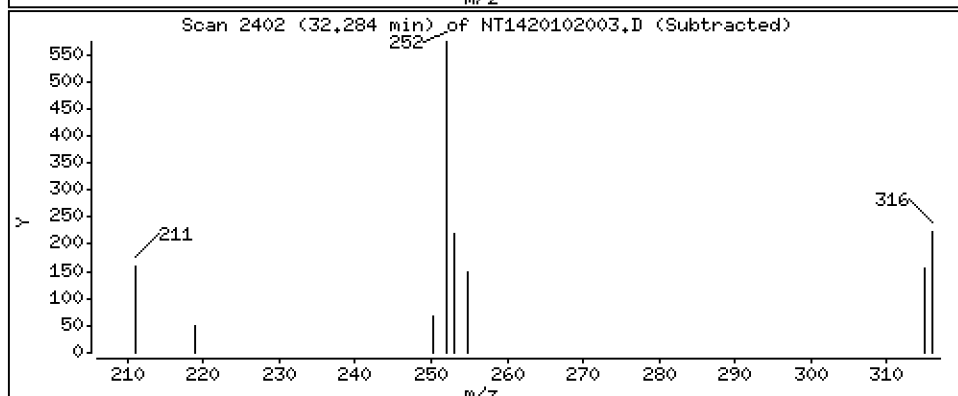
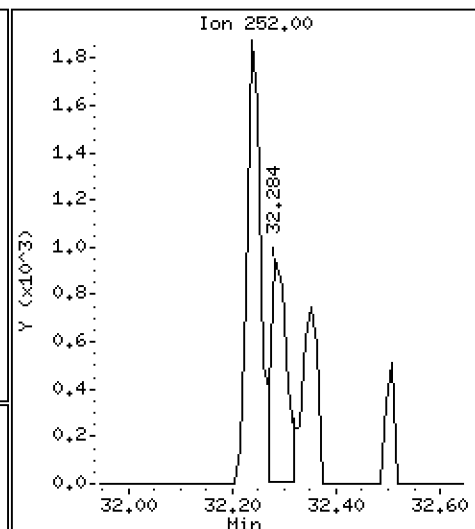
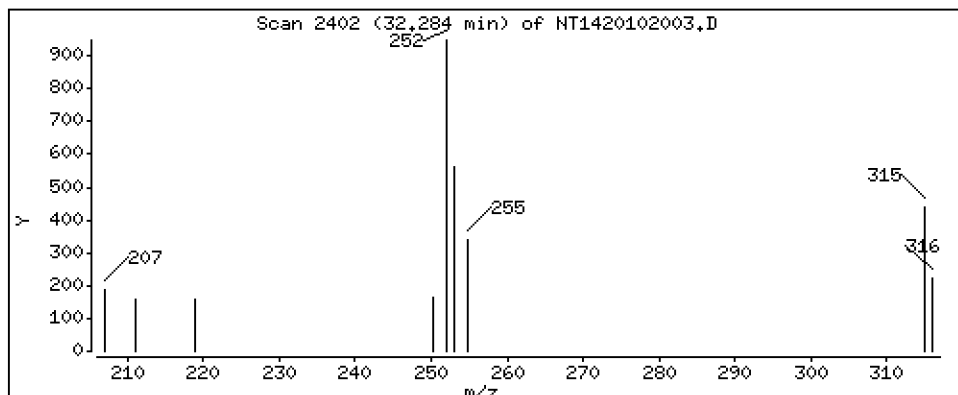
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 0,01163 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

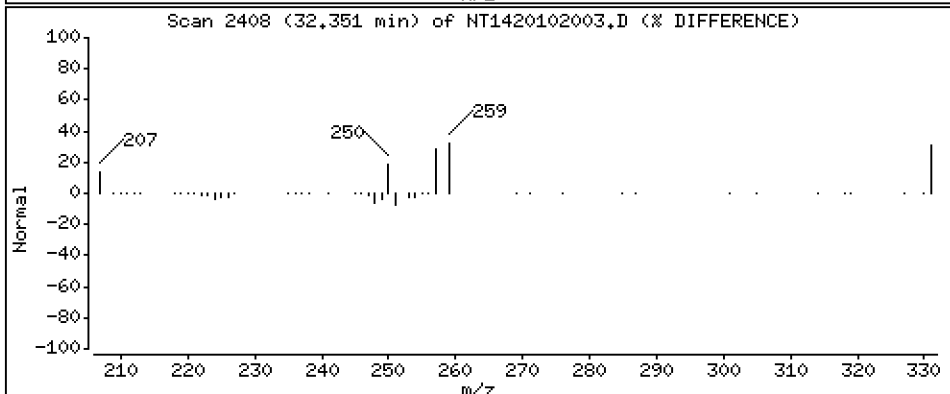
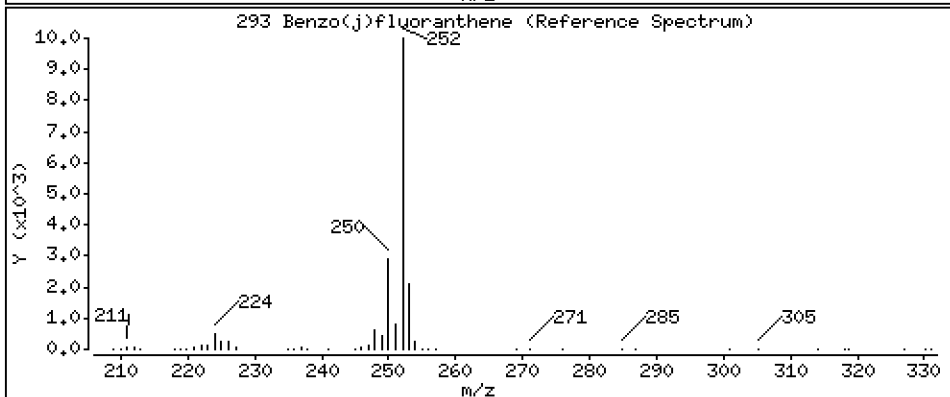
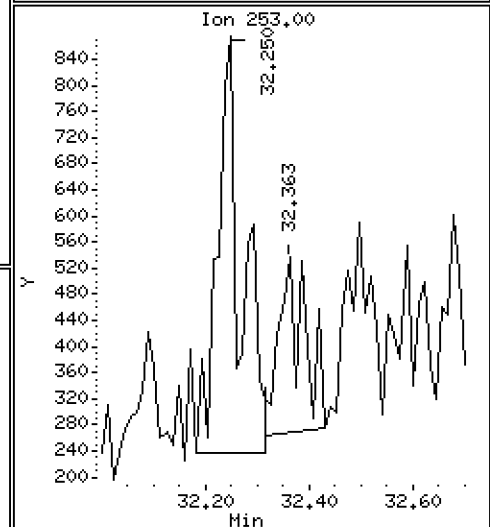
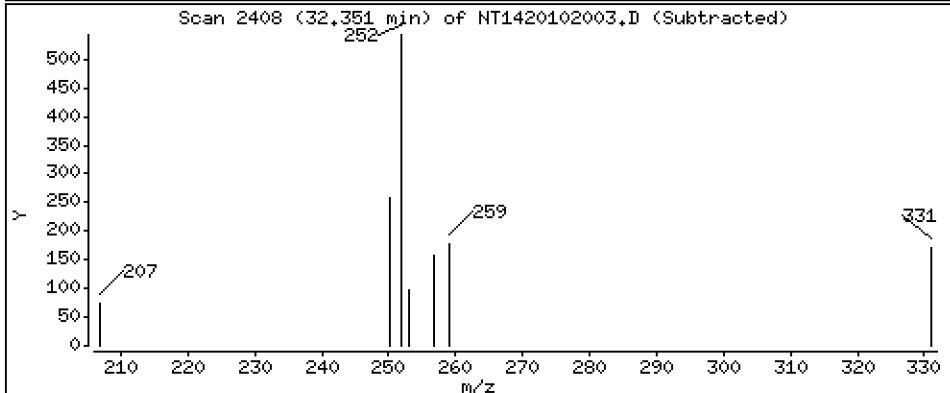
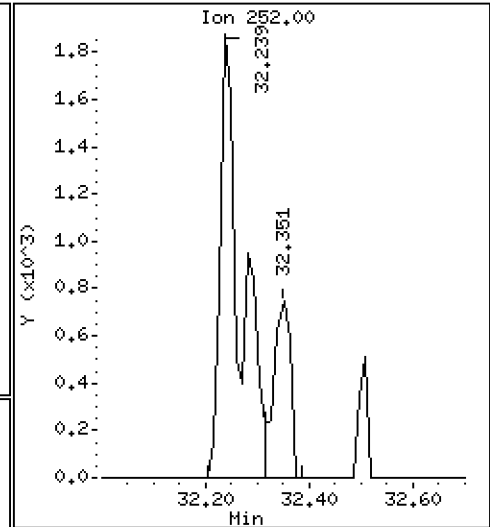
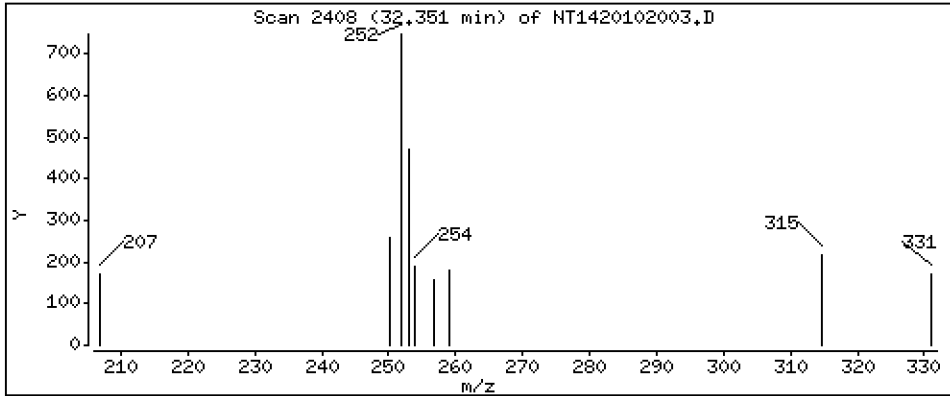
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

293 Benzo(j)fluoranthene

Concentration: 0,01156 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

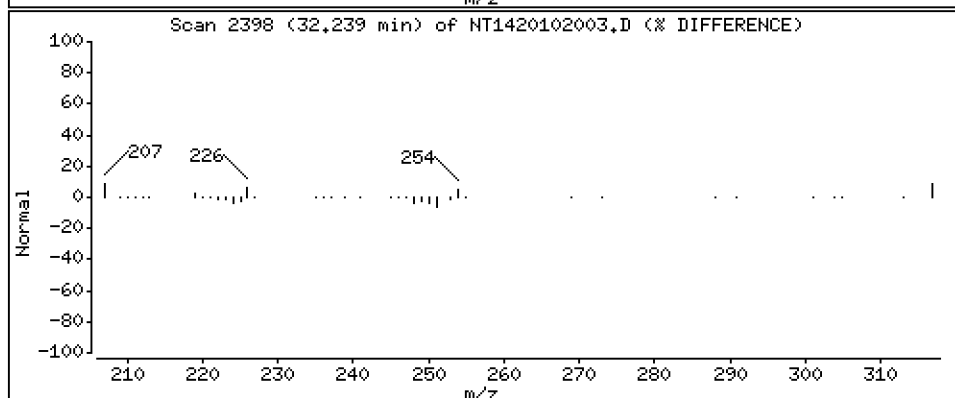
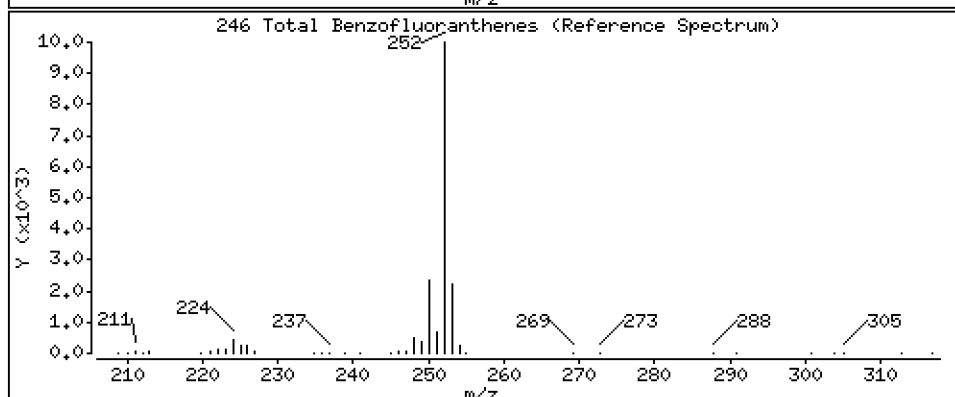
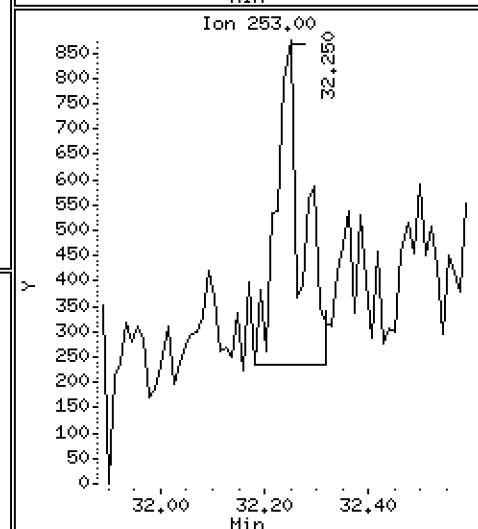
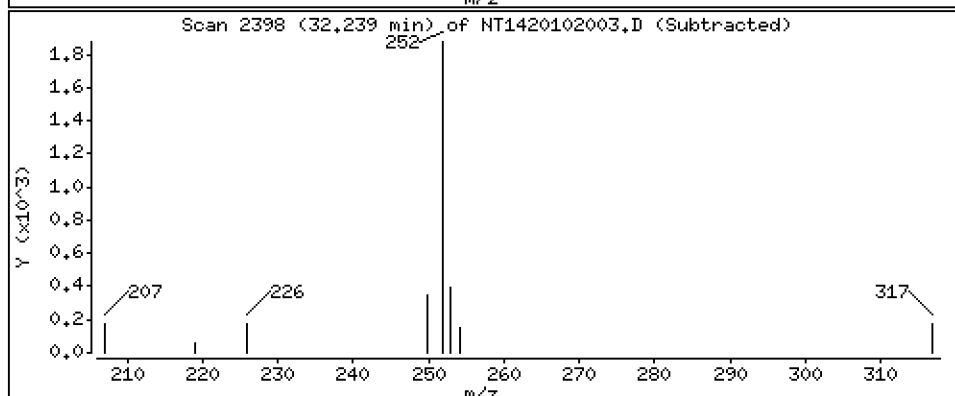
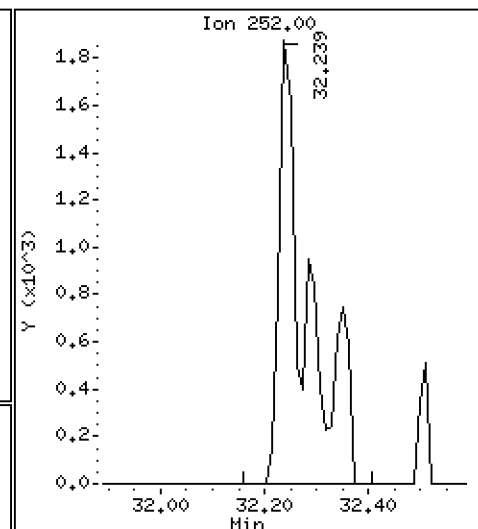
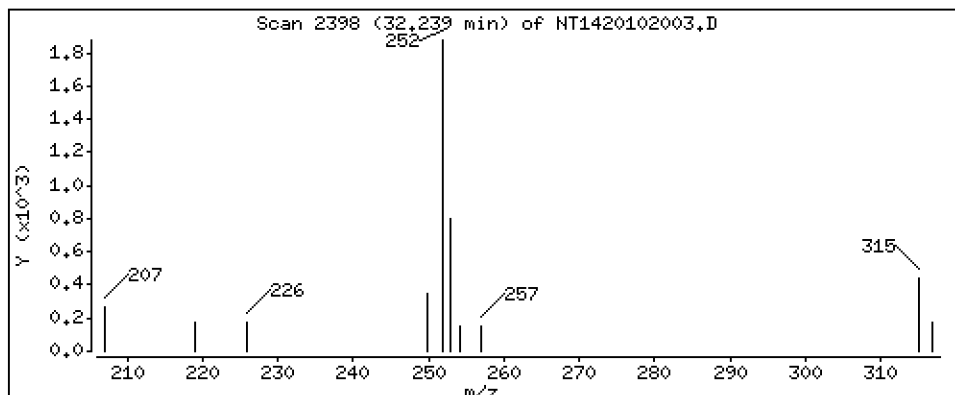
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 0,04515 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201020.b\NT1420102003.D
 Lab Smp Id: BIJ0442-BLK1
 Inj Date : 20-OCT-2020 10:58
 Operator : VTS
 Smp Info : BIJ0442-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Meth Date : 20-Oct-2020 11:14 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138							
2 cis-Decalin	138							
\$ 6 Naphthalene-d8	136		11.630	11.630	(0.625)	164338	1.66507	1.665(R)
7 Naphthalene	128		11.696	11.696	(0.628)	2584	0.02617	0.02617
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141							
17 1-methylnaphthalene	141							
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152							
\$ 21 Acenaphthene-d10	164		17.092	17.092	(0.918)	92902	1.56753	1.568(R)
22 Acenaphthene	153							
23 Dibenzofuran	168							
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.621	18.621	(1.000)	241890	2.00000	
26 Fluorene	166							
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188		21.941	21.941	(0.995)	234096	2.23702	2.237(R)
36 Phenanthrene	178		22.018	22.018	(0.999)	3790	0.03132	0.03132
* 250 Anthracene-d10	188		22.051	22.051	(1.000)	218488	2.00000	
37 Anthracene	178							
42 Carbazole	167							
43 1-Methylphenanthrene	192							
44 Fluoranthene	202		25.822	25.821	(1.171)	7401	0.05542	0.05542
46 Pyrene	202		26.668	26.668	(1.209)	2201	0.01562	0.01562
51 Naphthobenzothiophene	234							
55 Benzo(a)anthracene	228		29.817	29.816	(0.906)	1990	0.01398	0.01398
\$ 56 Chrysene-d12	240		29.940	29.940	(0.910)	235450	2.09472	2.095(R)
57 Chrysene	228		30.019	30.019	(0.912)	5693	0.04025	0.04025
62 Benzo(b)fluoranthene	252		32.238	32.238	(0.980)	3608	0.02245	0.02245(M)
63 Benzo(k)fluoranthene	252		32.283	32.294	(0.981)	1883	0.01163	0.01163(M)
293 Benzo(j)fluoranthene	252		32.351	32.351	(0.983)	1637	0.01156	0.01156
246 Total Benzofluoranthenes	252		32.238	32.238	(0.980)	6732	0.04515	0.04515(M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
* 251 Benzo(e)pyrene-d12	264		32.903	32.902	(1.000)	329670	2.00000	
64 Benzo(e)pyrene	252		Compound Not Detected.					
66 Benzo(a)pyrene	252		Compound Not Detected.					
\$ 67 Perylene-d12	264		33.241	33.240	(1.010)	267378	1.96142	1.961(R)
68 Perylene	252		Compound Not Detected.					
69 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
70 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
74 Benzo(g,h,i)perylene	276		Compound Not Detected.					

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 20-OCT-2020
 Lab File ID: NT1420102003.D Calibration Time: 09:59
 Lab Smp Id: BIJ0442-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	215838	107919	431676	241890	12.07
250 Anthracene-d10	194812	97406	389624	218488	12.15
251 Benzo(e)pyrene-d1	284140	142070	568280	329670	16.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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 - NT1420102003.D

Lab ID: BIJ0442-BLK1

nt14.i, 20201020.b\ALKYLPNA.m, 20-OCT-2020 10:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

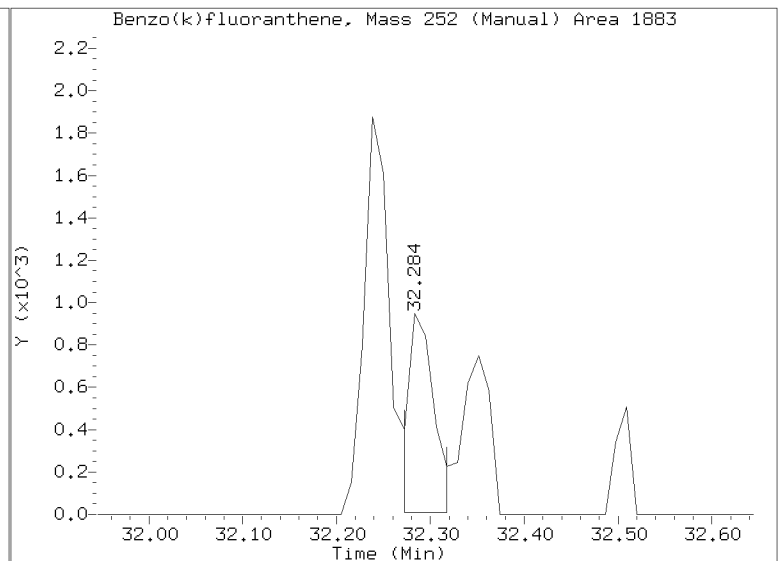
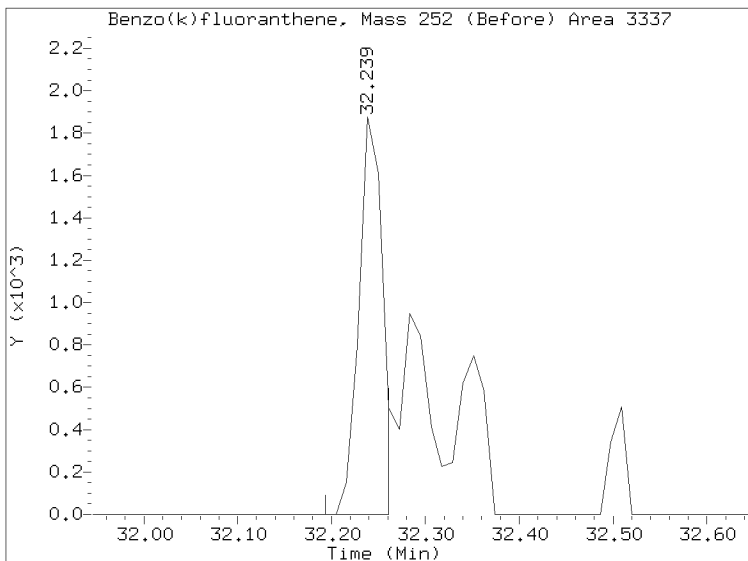
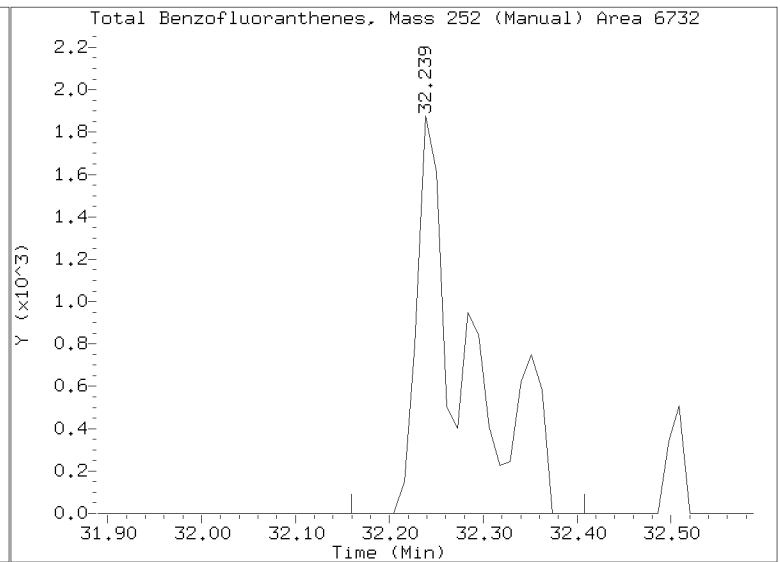
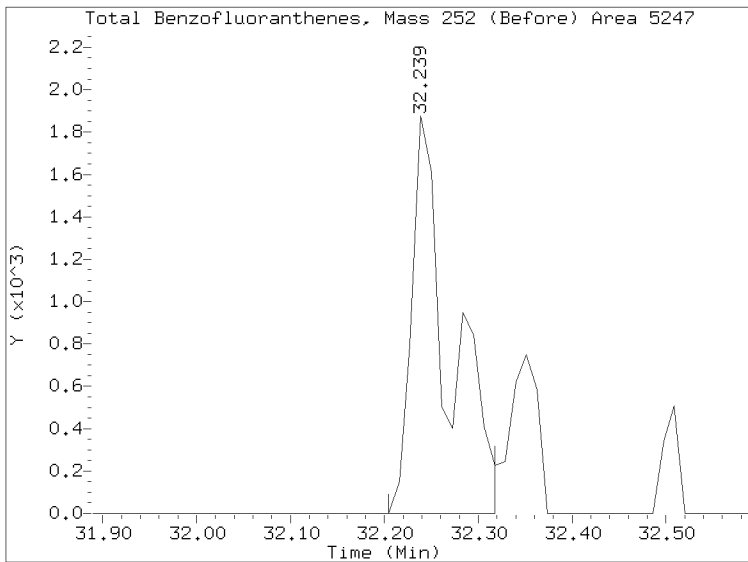
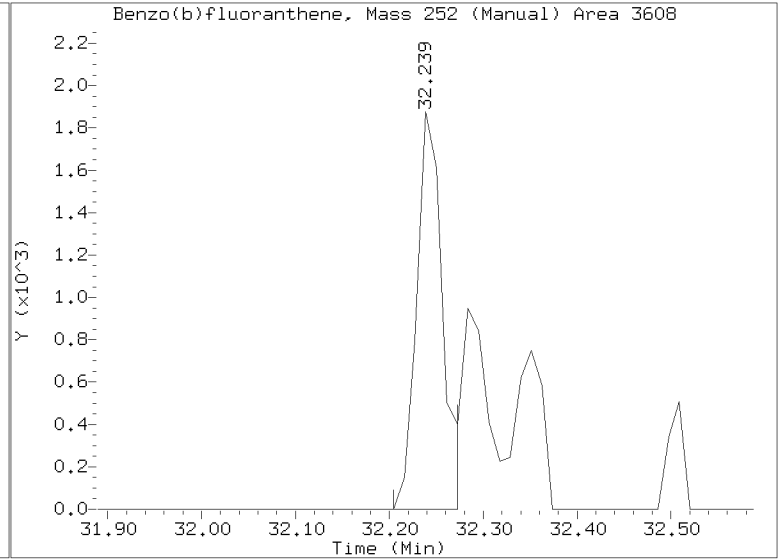
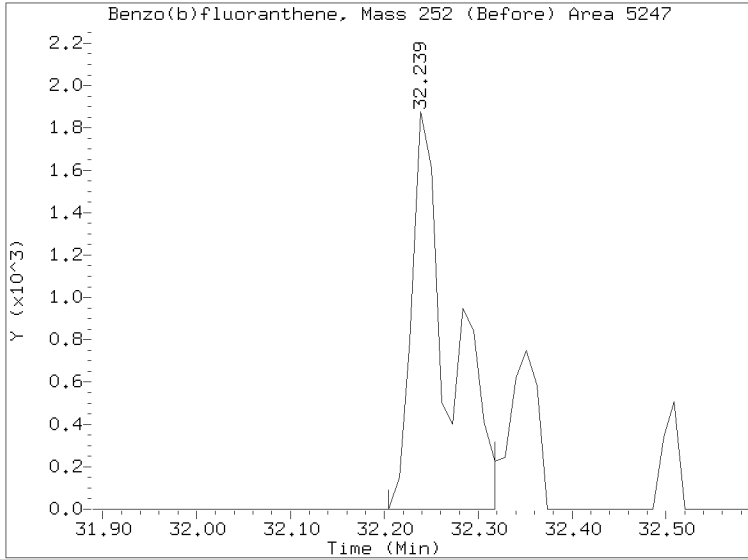
RRT check based on Ccal File: NT1420102002.D

On Column LOD for nt14.i, 20201020.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102003.D
Injection Date: 20-OCT-2020 10:58
Lab ID:BIJ0442-BLK1 Client ID:
Report Date: 10/21/2020 14:21



Data File: \\target\share\chem3\nt14.1\20201020.16\SIH.6\NT1420102003S.D

Date : 20-OCT-2020 10:58

Client ID:

Sample Info: B100442-BLK1

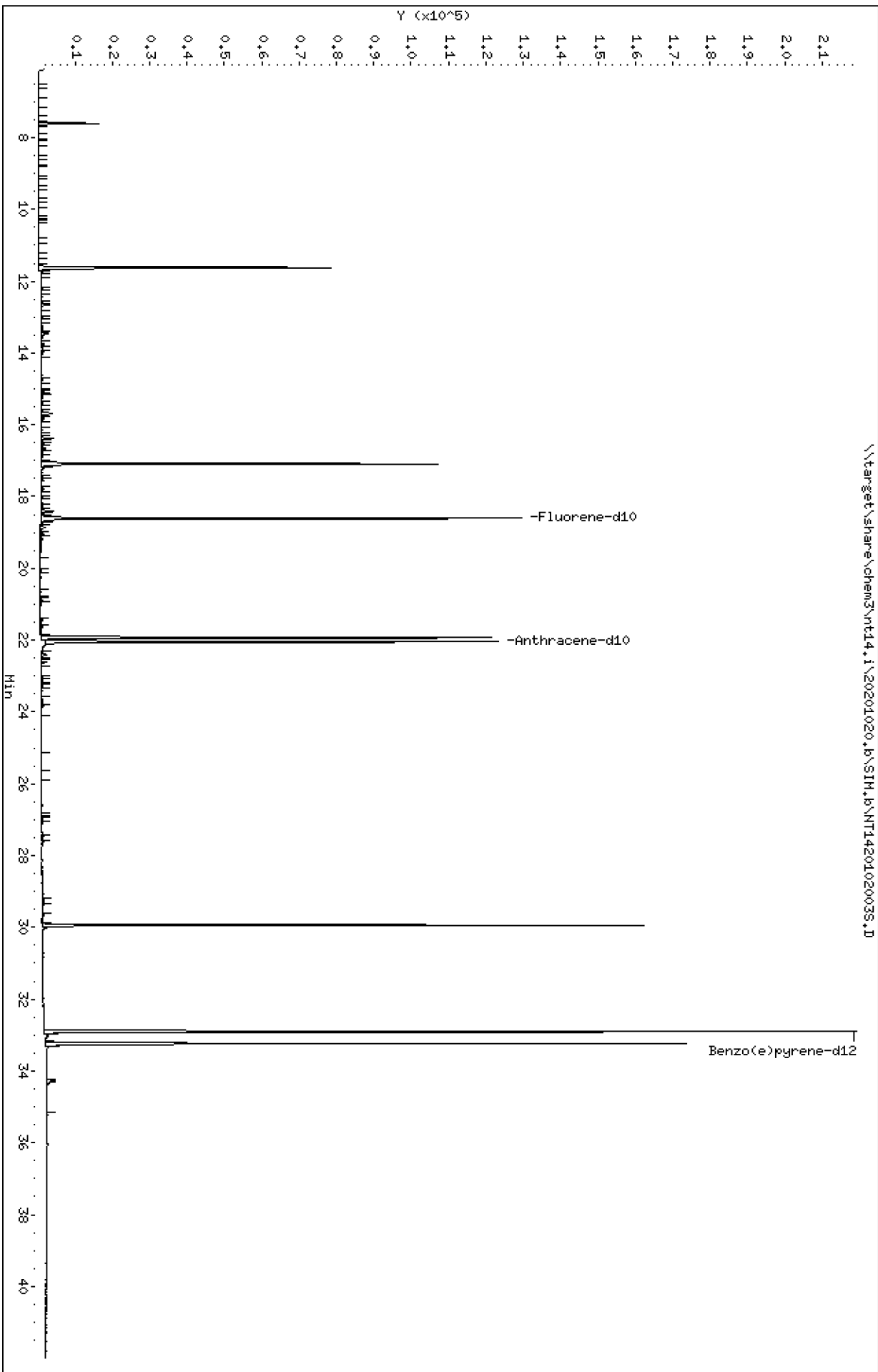
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201020.16\SIH.6\NT1420102003S.D



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

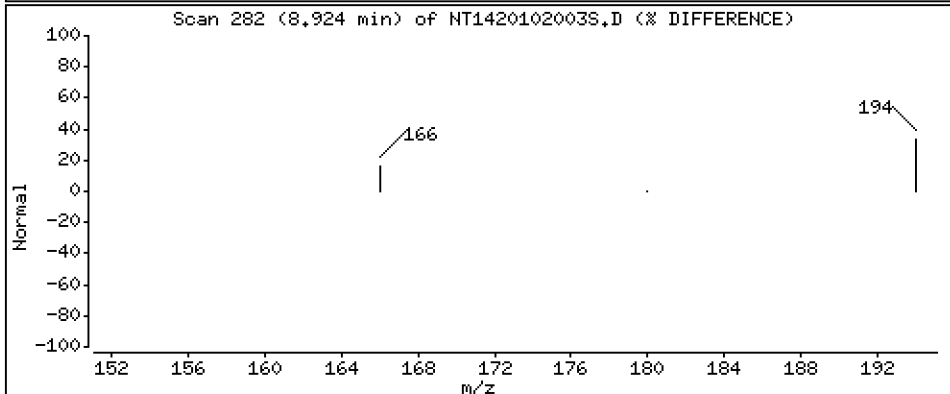
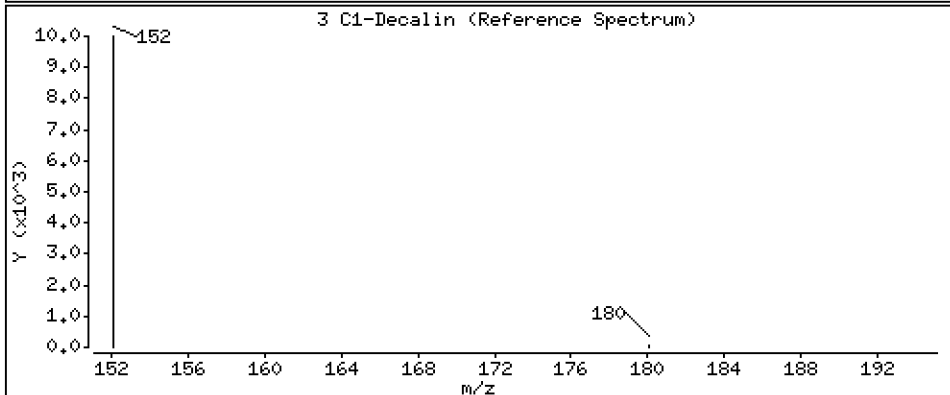
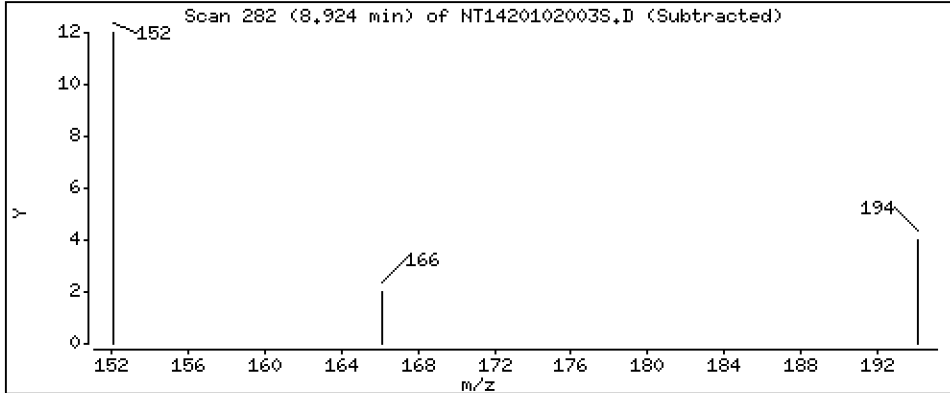
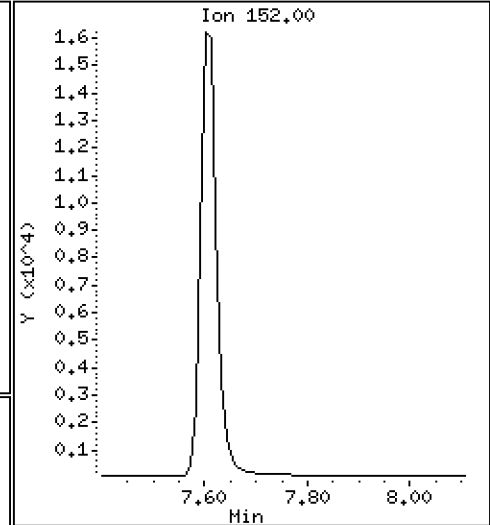
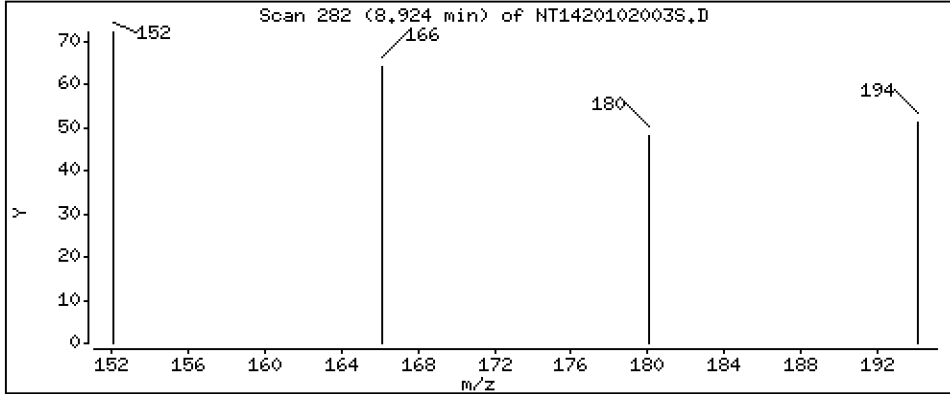
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

3 Cl-Decalin

Concentration: 0,004469 ug/mL



Date : 20-OCT-2020 10:58

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BLK1

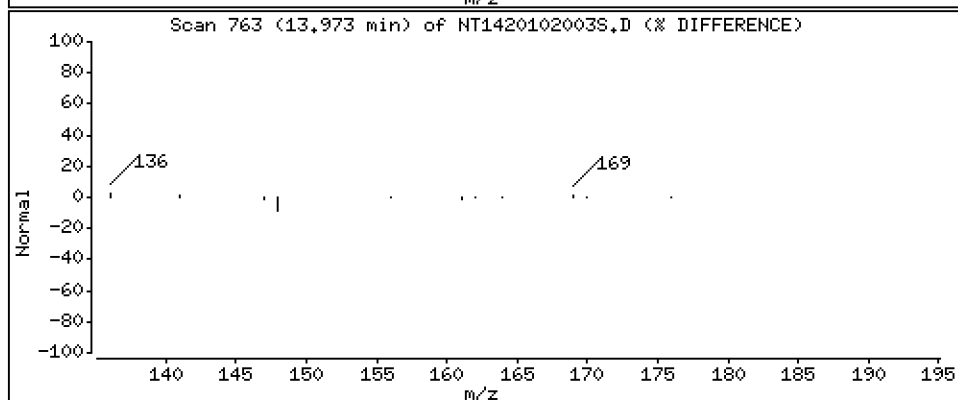
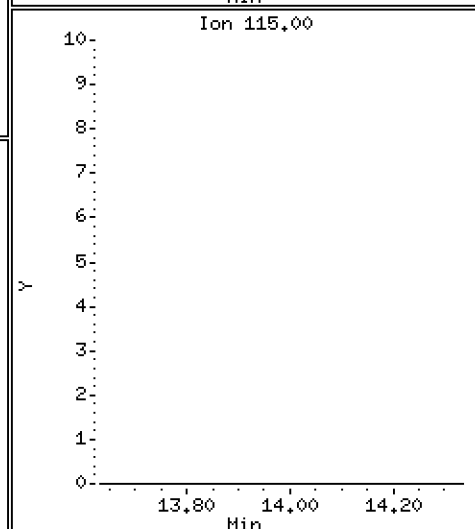
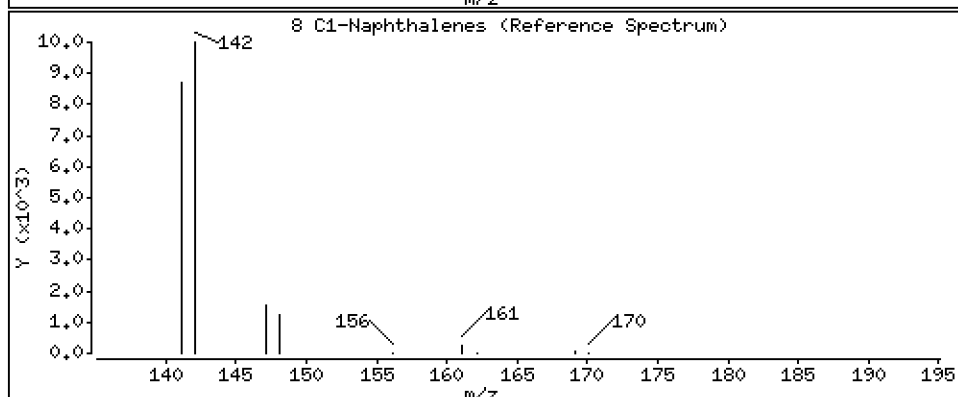
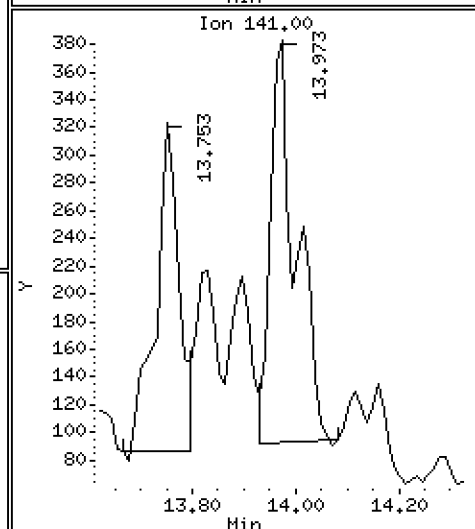
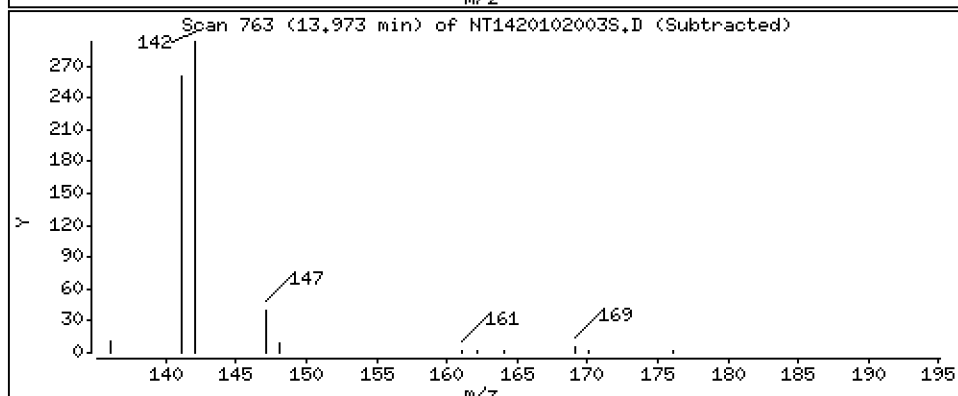
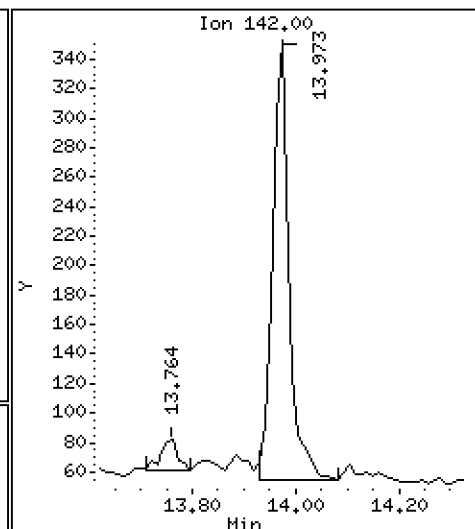
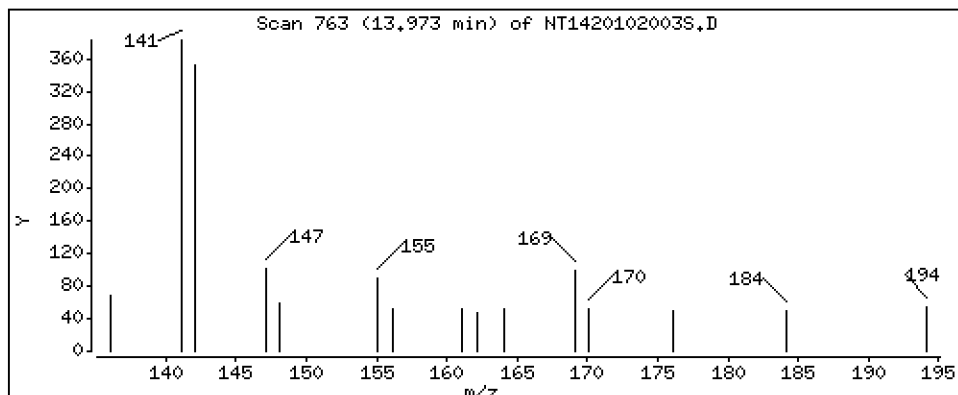
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

8 Cl-Naphthalenes

Concentration: 0,007617 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201020.b\SIM.b\NT1420102003S.D
Lab Smp Id: BIJ0442-BLK1
Inj Date : 20-OCT-2020 10:58
Operator : VTS
Smp Info : BIJ0442-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20201020.b\SIM.b\ALKYLRANGE.m
Meth Date : 23-Oct-2020 15:30 yev
Cal Date : 17-OCT-2020 17:58
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE
Target Version: 4.14
Processing Host: ORGDATA102

Inst ID: nt14.i

Quant Type: ISTD
Cal File: NT1420101709S.D

Compound Sublist: ALKYLRANGES.sub

Compounds	QUANT	SIG	CONCENTRATIONS					
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
3 C1-Decalin	152		8.923	7.753	(0.479)	32	0.00447	0.004469
4 C2-Decalin	166		Compound Not Detected.					
5 C3-Decalin	180		Compound Not Detected.					
247 C4-Decalin	194		Compound Not Detected.					
8 C1-Naphthalenes	142		13.972	13.972	(0.751)	708	0.00762	0.007617
9 C2-Naphthalenes	156		Compound Not Detected.					
10 C3-Naphthalenes	170		Compound Not Detected.					
11 C4-Naphthalenes	184		Compound Not Detected.					
13 C1-Benzothiophenes	148		Compound Not Detected.					
14 C2-Benzothiophenes	162		Compound Not Detected.					
15 C3-Benzothiophenes	176		Compound Not Detected.					
27 C1-Fluorenes	180		Compound Not Detected.					
28 C2-Fluorenes	194		Compound Not Detected.					
29 C3-Fluorenes	208		Compound Not Detected.					
31 C1-Dibenzothiophenes	198		Compound Not Detected.					
* 25 Fluorene-d10	176		18.611	18.611	(1.000)	227691	2.00000	
32 C2-Dibenzothiophenes	212		Compound Not Detected.					
33 C3-Dibenzothiophenes	226		Compound Not Detected.					
34 C4-Dibenzothiophenes	240		Compound Not Detected.					
38 C1-Phenanthrenes/Anthracenes	192		Compound Not Detected.					
39 C2-Phenanthrenes/Anthracenes	206		Compound Not Detected.					
40 C3-Phenanthrenes/Anthracenes	220		Compound Not Detected.					
41 C4-Phenanthrenes/Anthracenes	234		Compound Not Detected.					
48 C1-Fluoranthenes/Pyrenes	216		Compound Not Detected.					
* 250 Anthracene-d10	188		22.052	22.041	(1.000)	242108	2.00000	
49 C2-Fluoranthenes/Pyrenes	230		Compound Not Detected.					
50 C3-Fluoranthenes/Pyrenes	244		Compound Not Detected.					
249 C4-Fluoranthenes/Pyrenes	258		Compound Not Detected.					
52 C1-Naphthobenzothiophenes	248		Compound Not Detected.					
53 C2-Naphthobenzothiophenes	262		Compound Not Detected.					
54 C3-Naphthobenzothiophenes	276		Compound Not Detected.					
248 C4-Naphthobenzothiophenes	290		Compound Not Detected.					
58 C1-Benzo(a)anthracenes/Chrysen	242		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
* 251 Benzo(e)pyrene-d12	264		32.904	32.904	(1.000)	367085	2.00000	
59 C2-Benzo(a)anthracenes/Chrysen	256					Compound Not Detected.		
60 C3-Benzo(a)anthracenes/Chrysen	270					Compound Not Detected.		
61 C4-Benzo(a)anthracenes/Chrysen	284					Compound Not Detected.		
71 C1-Dibenzo(a)anthracenes	292					Compound Not Detected.		
72 C2-Dibenzo(a)anthracenes	306					Compound Not Detected.		
73 C3-Dibenzo(a)anthracenes	320					Compound Not Detected.		

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1420102003S.D
Lab Smp Id: BIJ0442-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201020.b\SIM.b\ALKYLRANGE.m
Misc Info:

Calibration Date: 20-OCT-2020
Calibration Time: 09:59
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	205426	102713	410852	227691	10.84
250 Anthracene-d10	218653	109327	437306	242108	10.73
251 Benzo(e)pyrene-d1	312750	156375	625500	367085	17.37

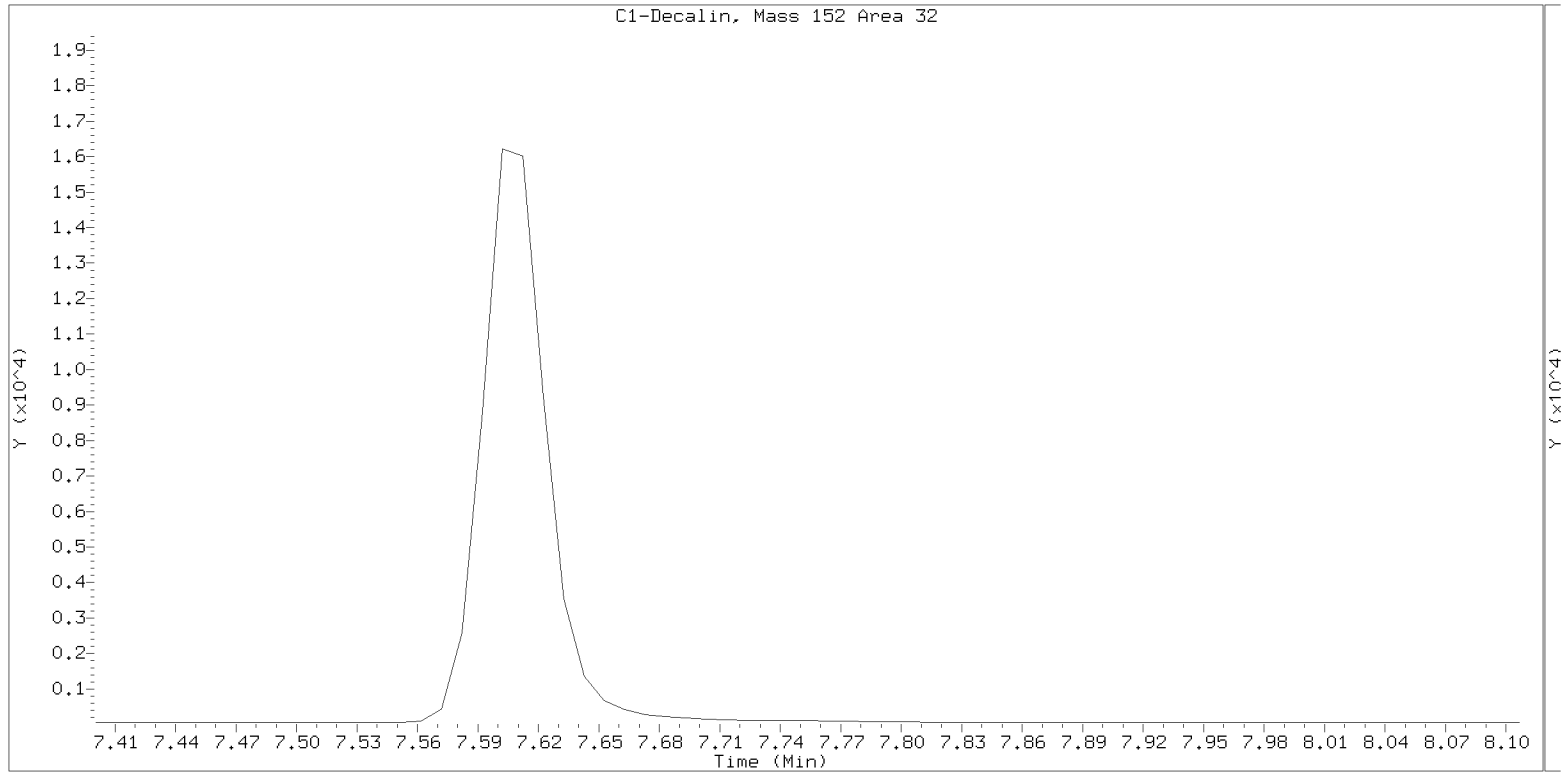
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.61	18.11	19.11	18.61	0.00
250 Anthracene-d10	22.04	21.54	22.54	22.05	0.05
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	0.00

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.

SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

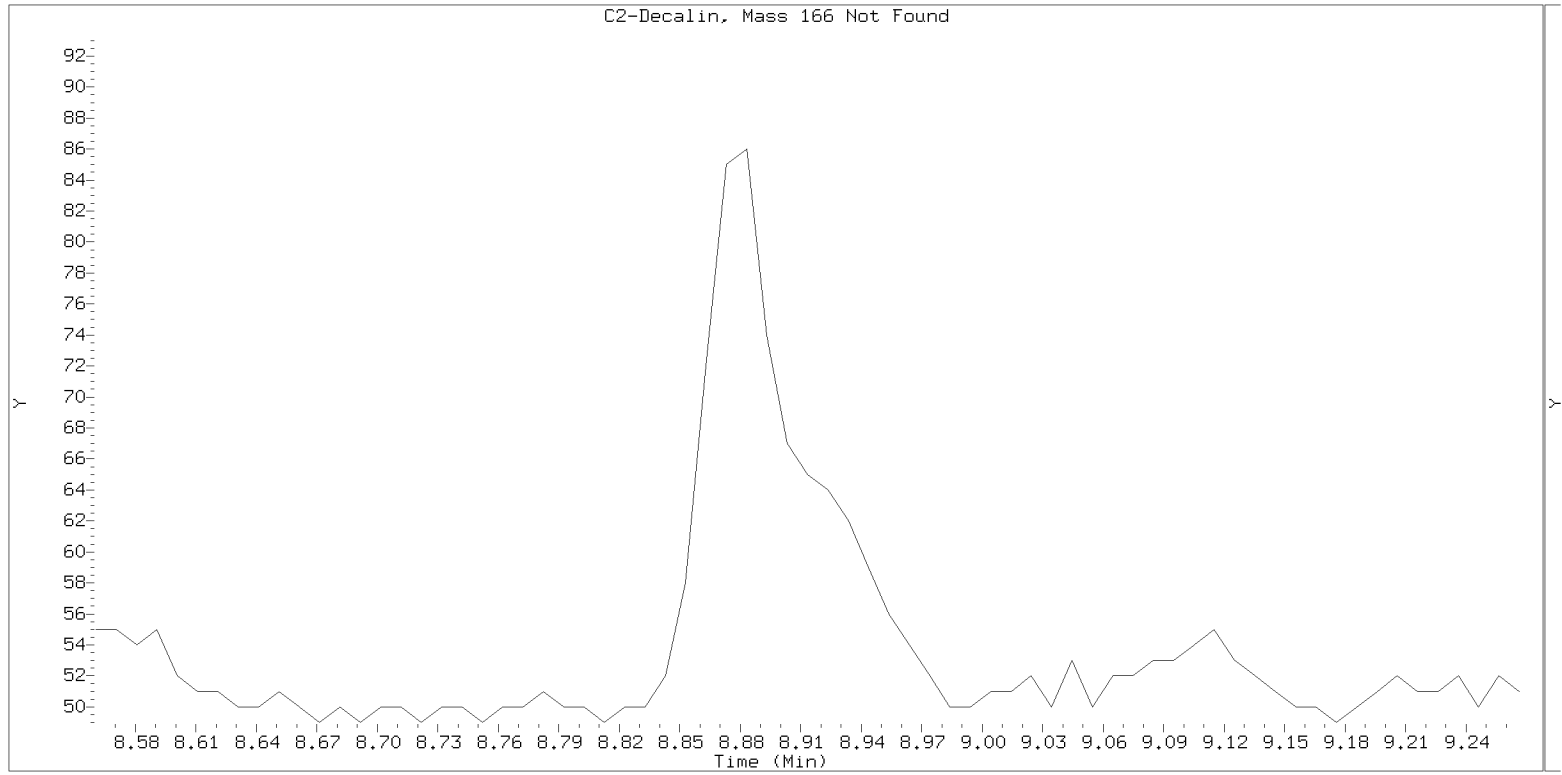
nt14.i, SIM.b\ALKYLRANGE.m, 20-OCT-2020 10:58



SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

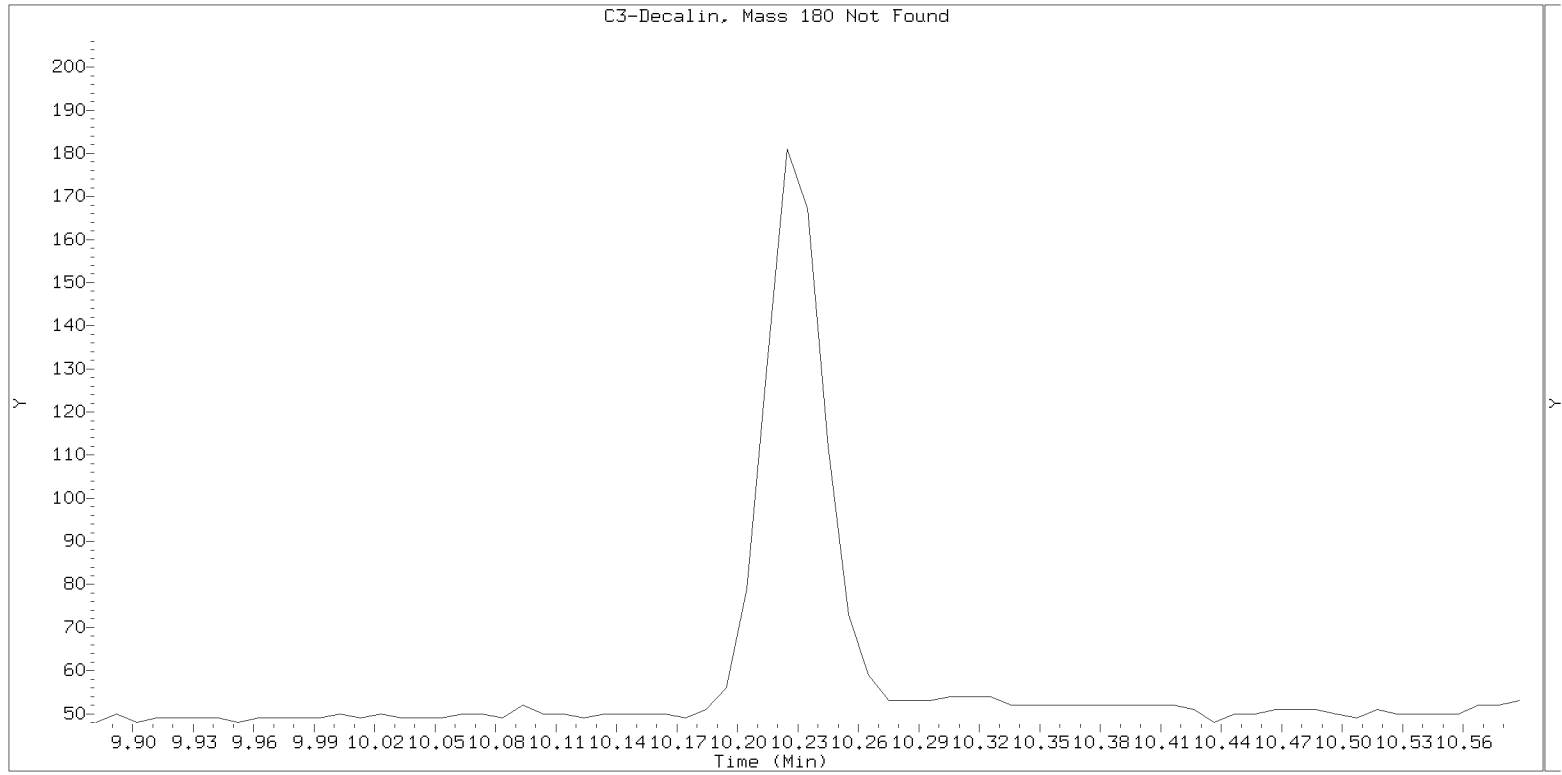
nt14.i, SIM.b\ALKYLRANGE.m, 20-OCT-2020 10:58



SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

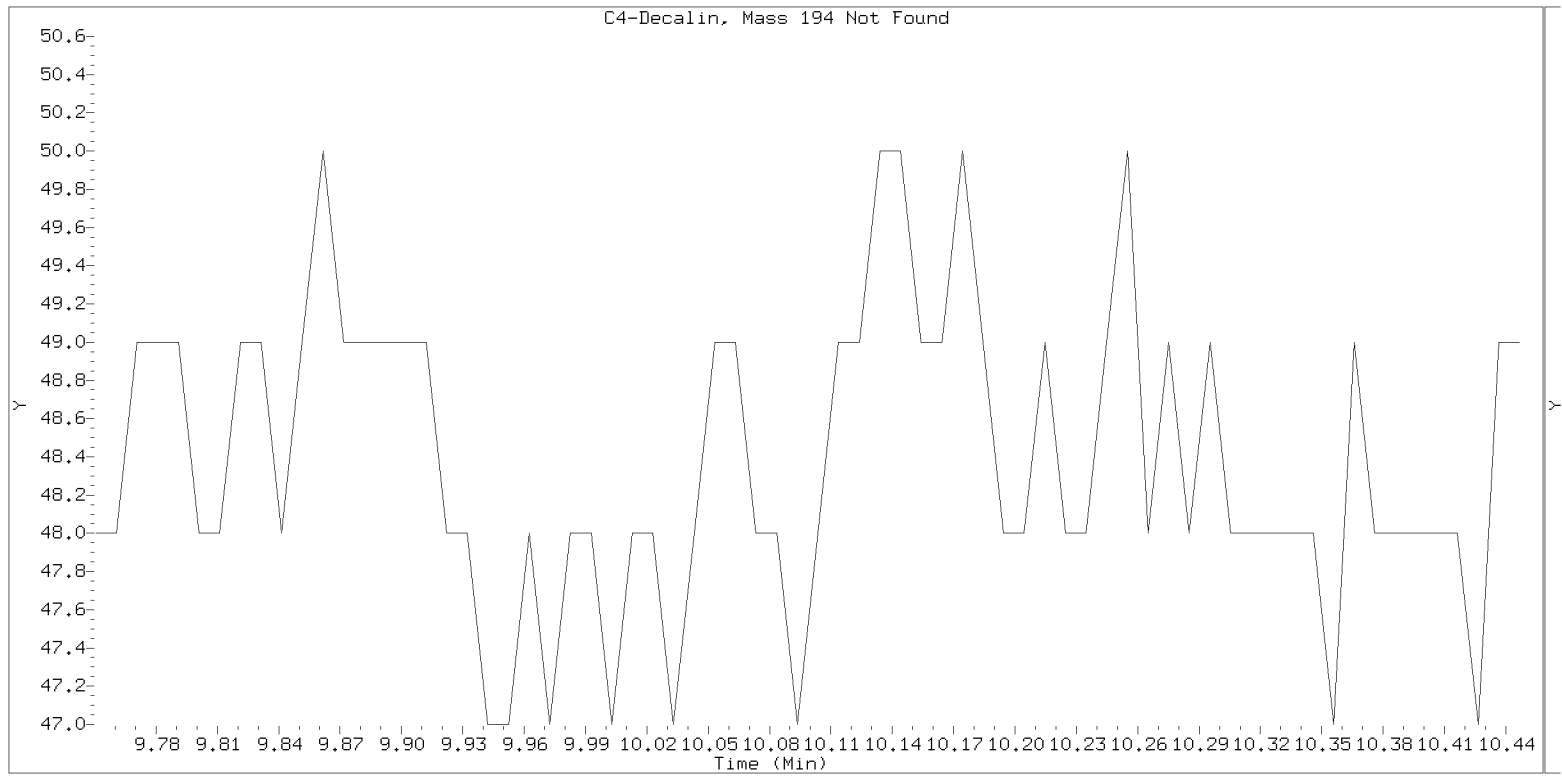
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

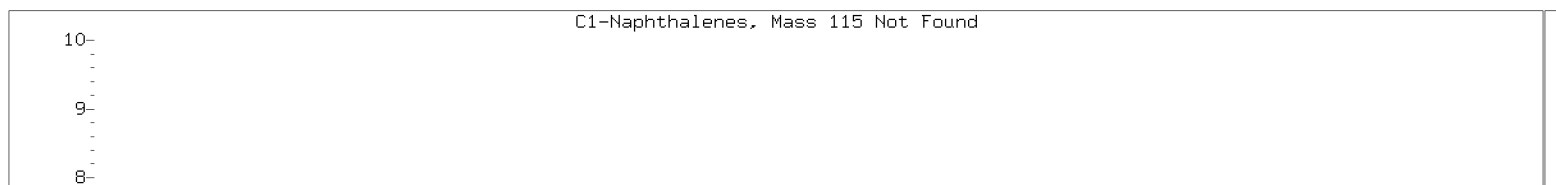
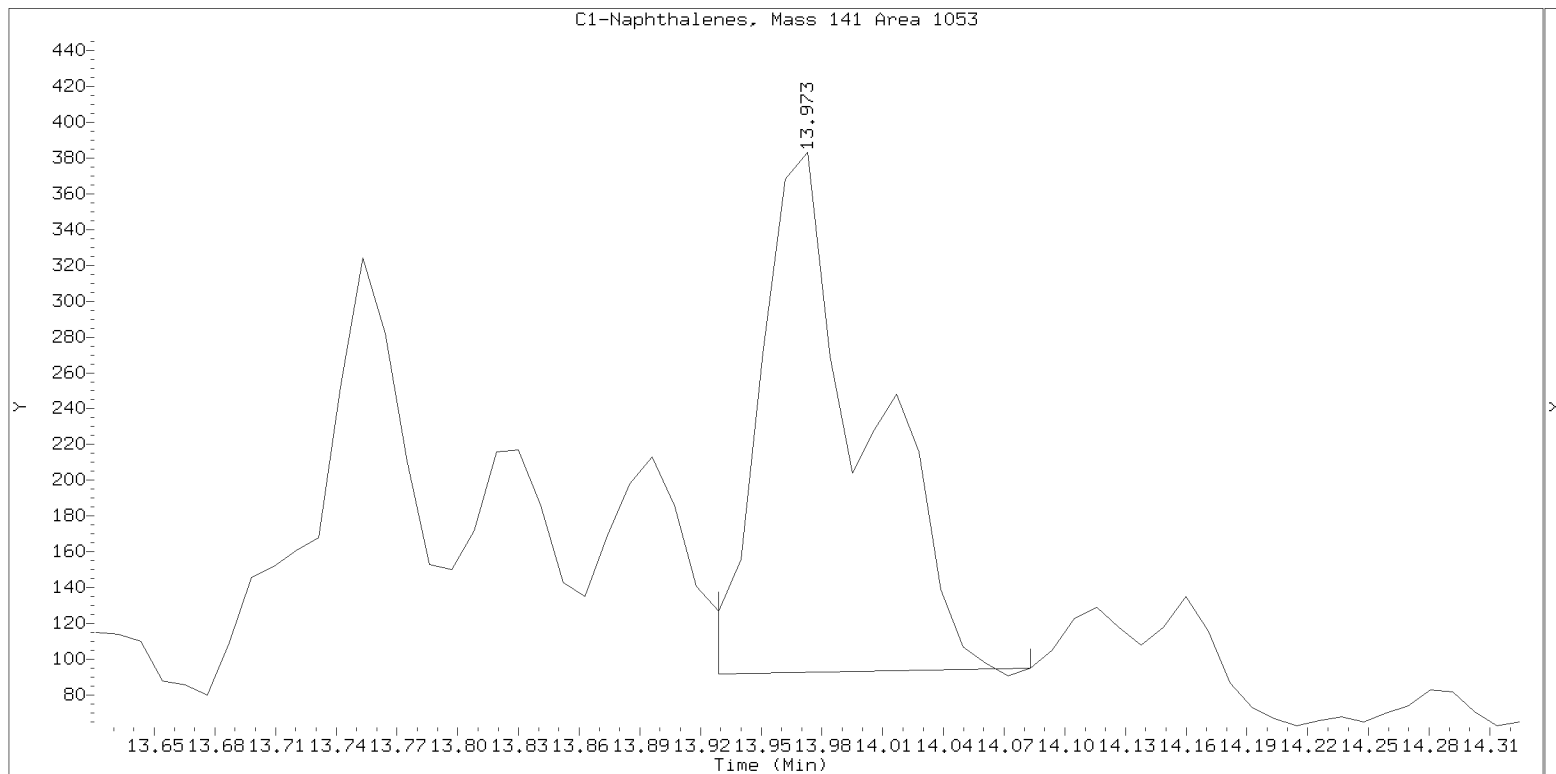
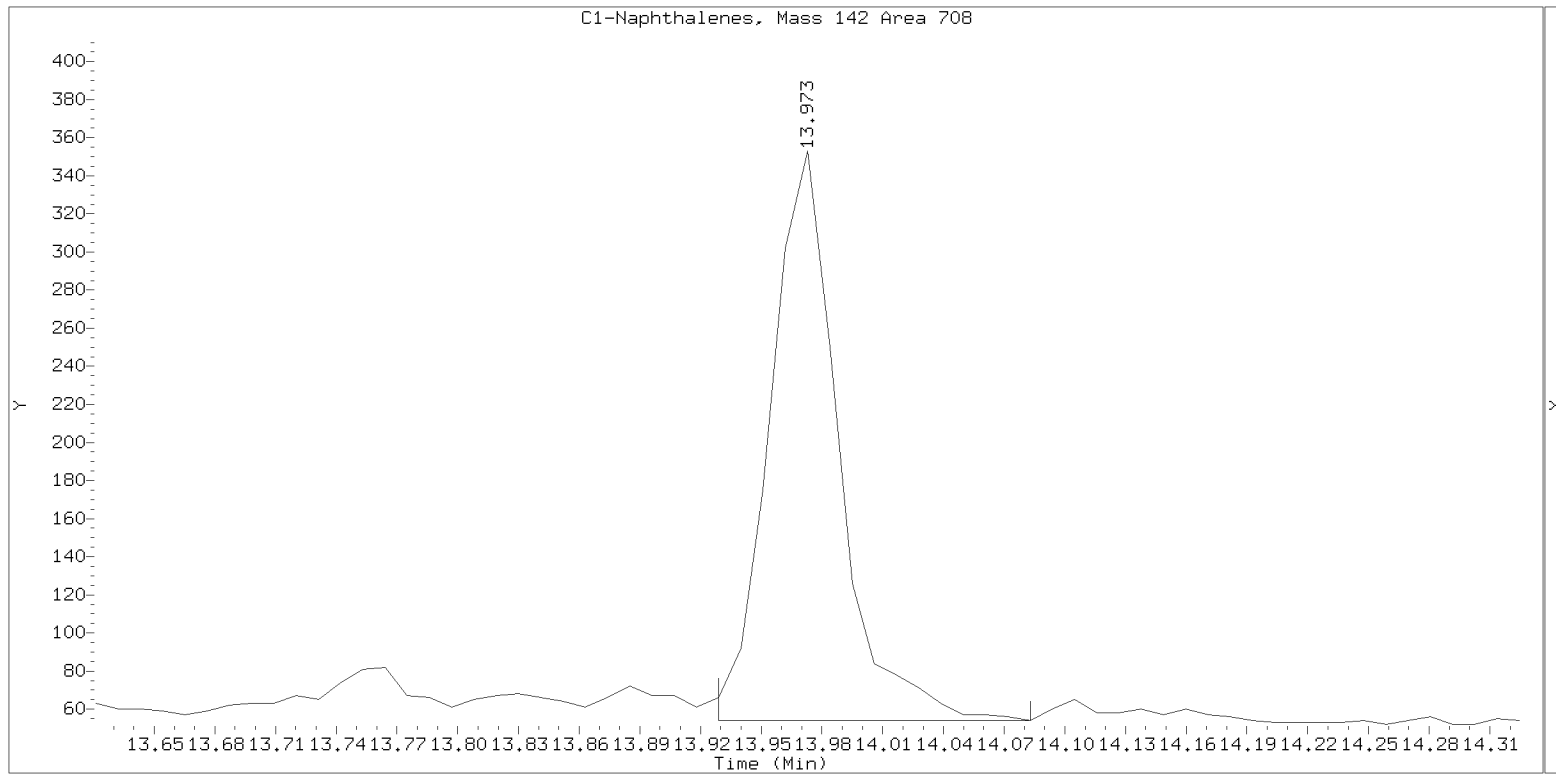
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

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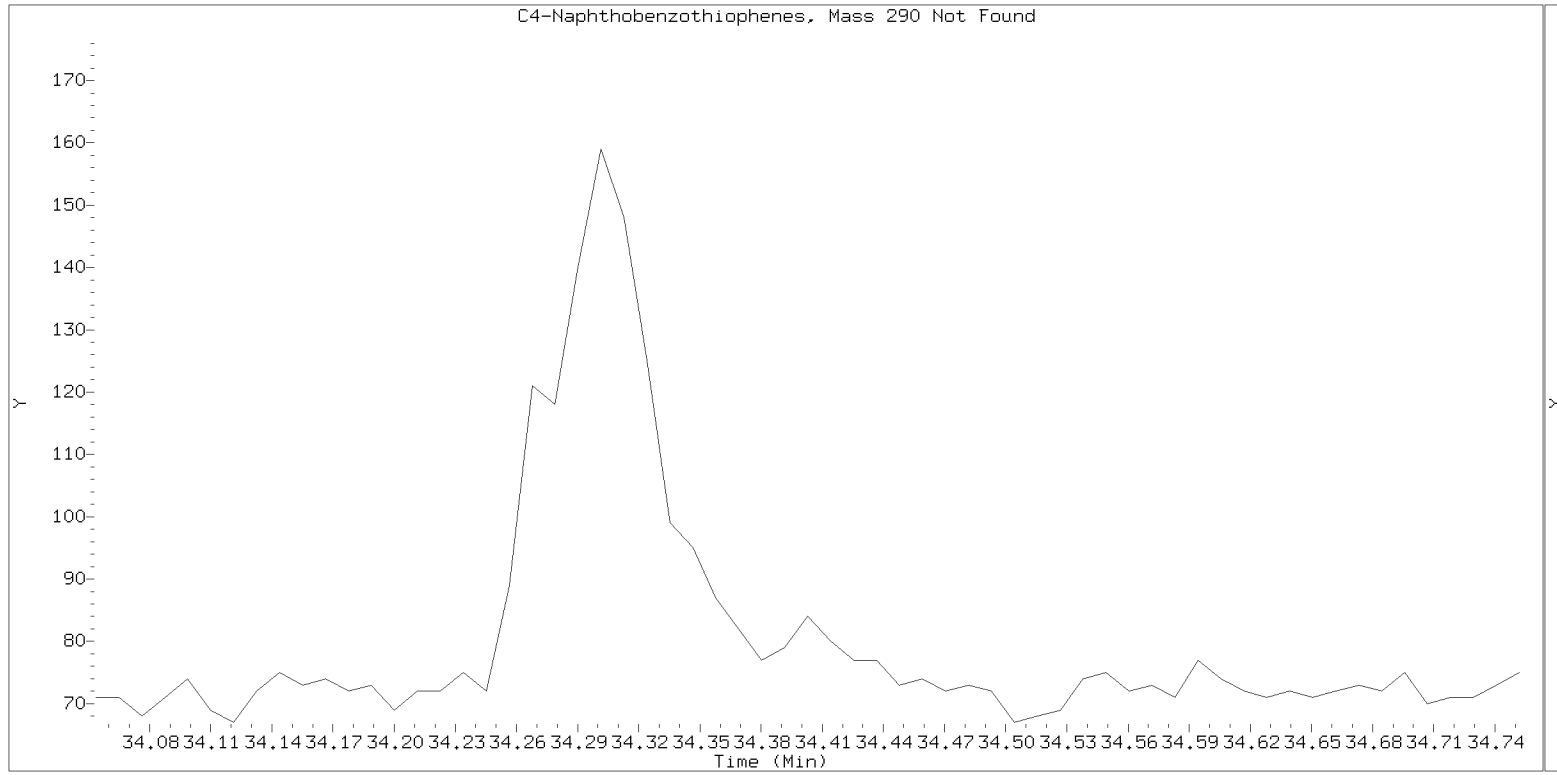
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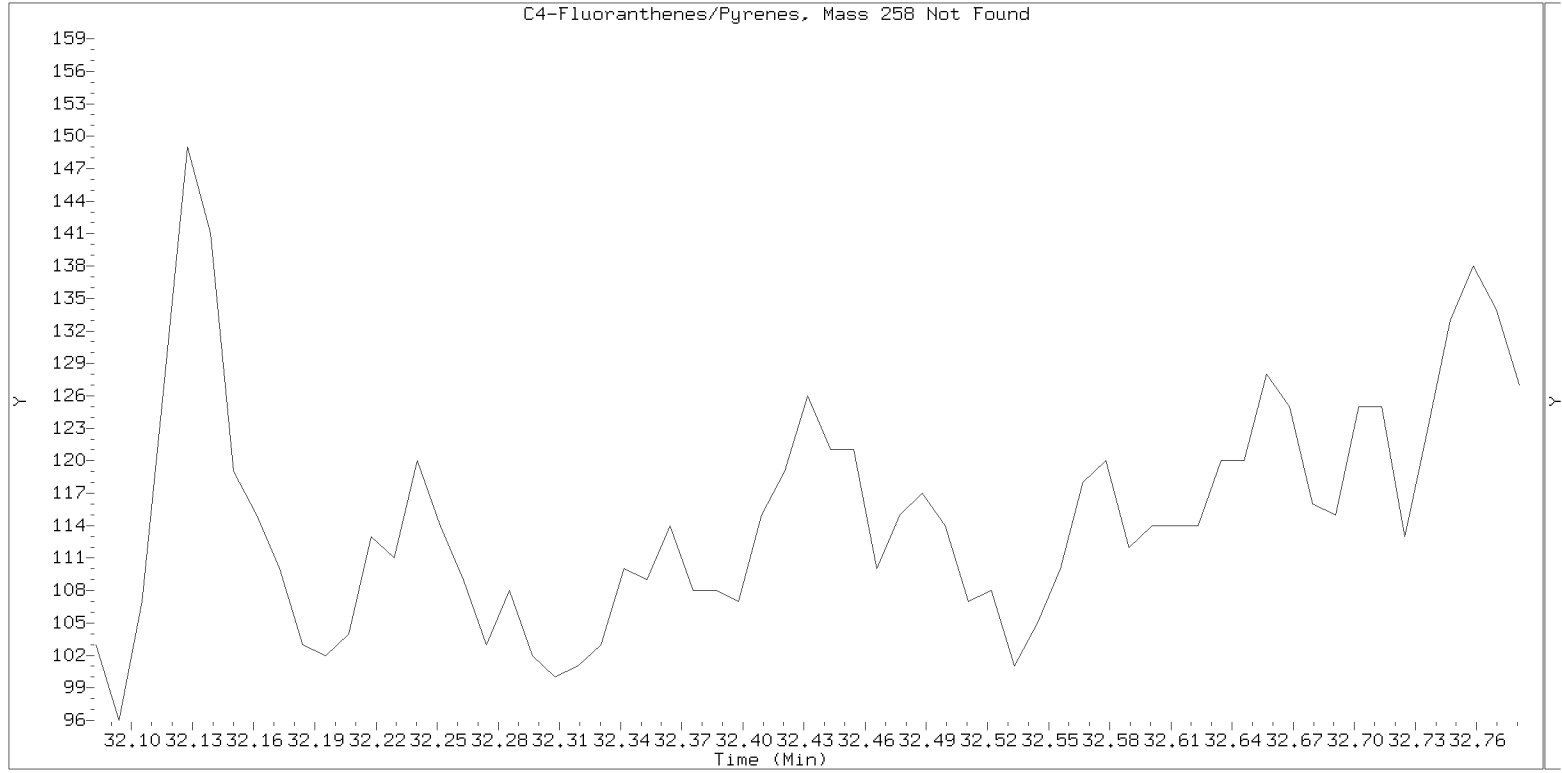
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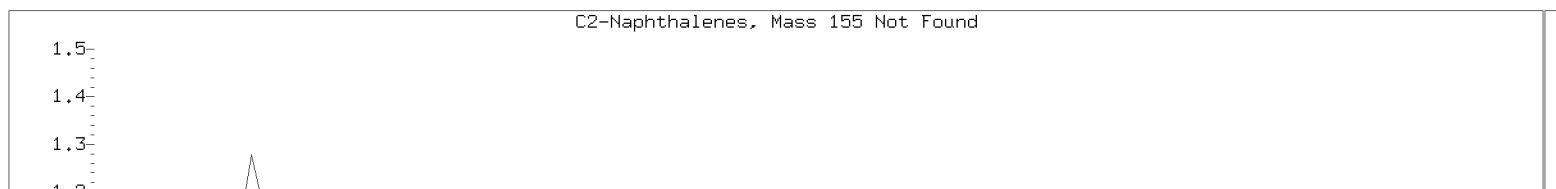
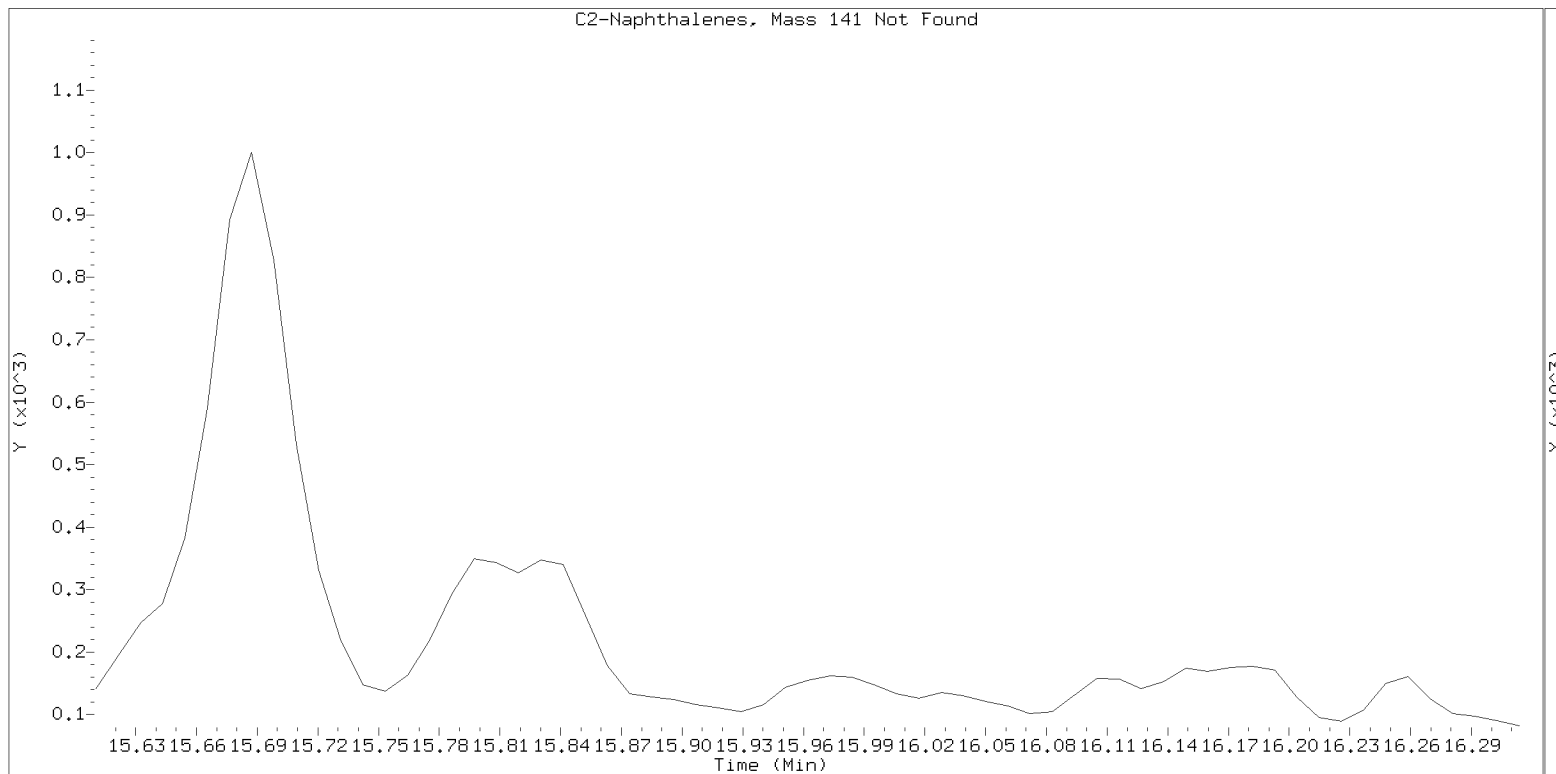
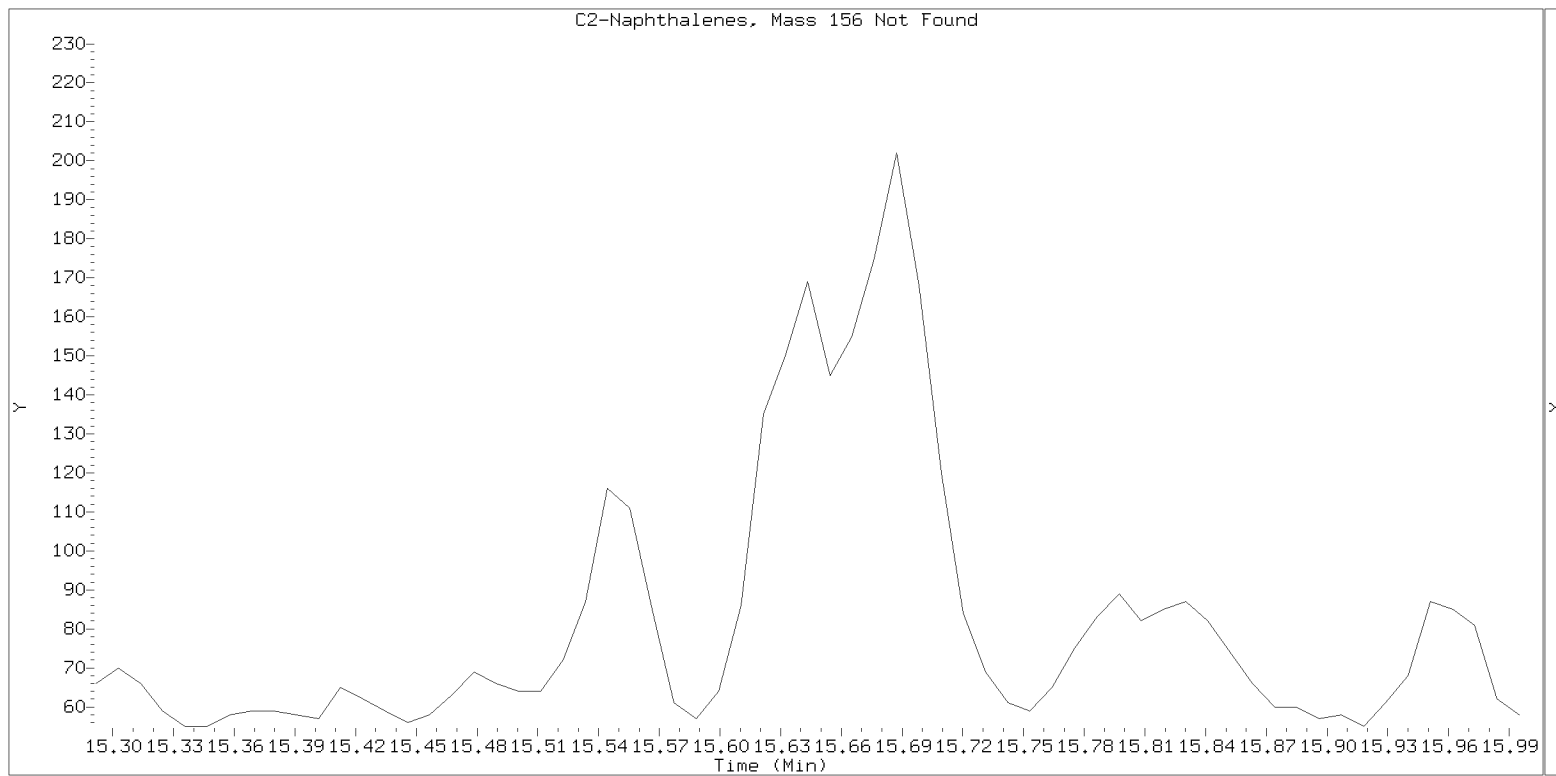
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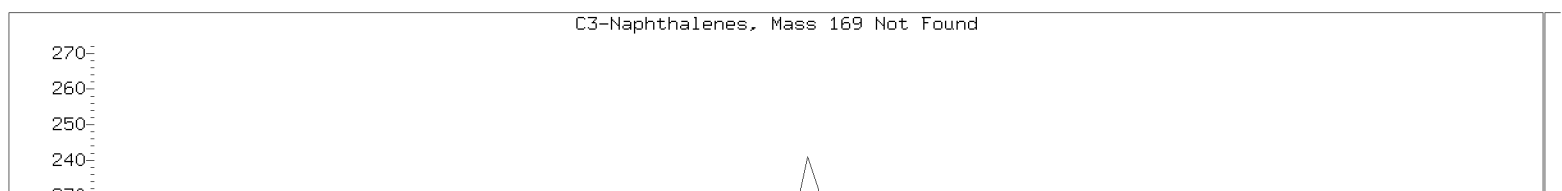
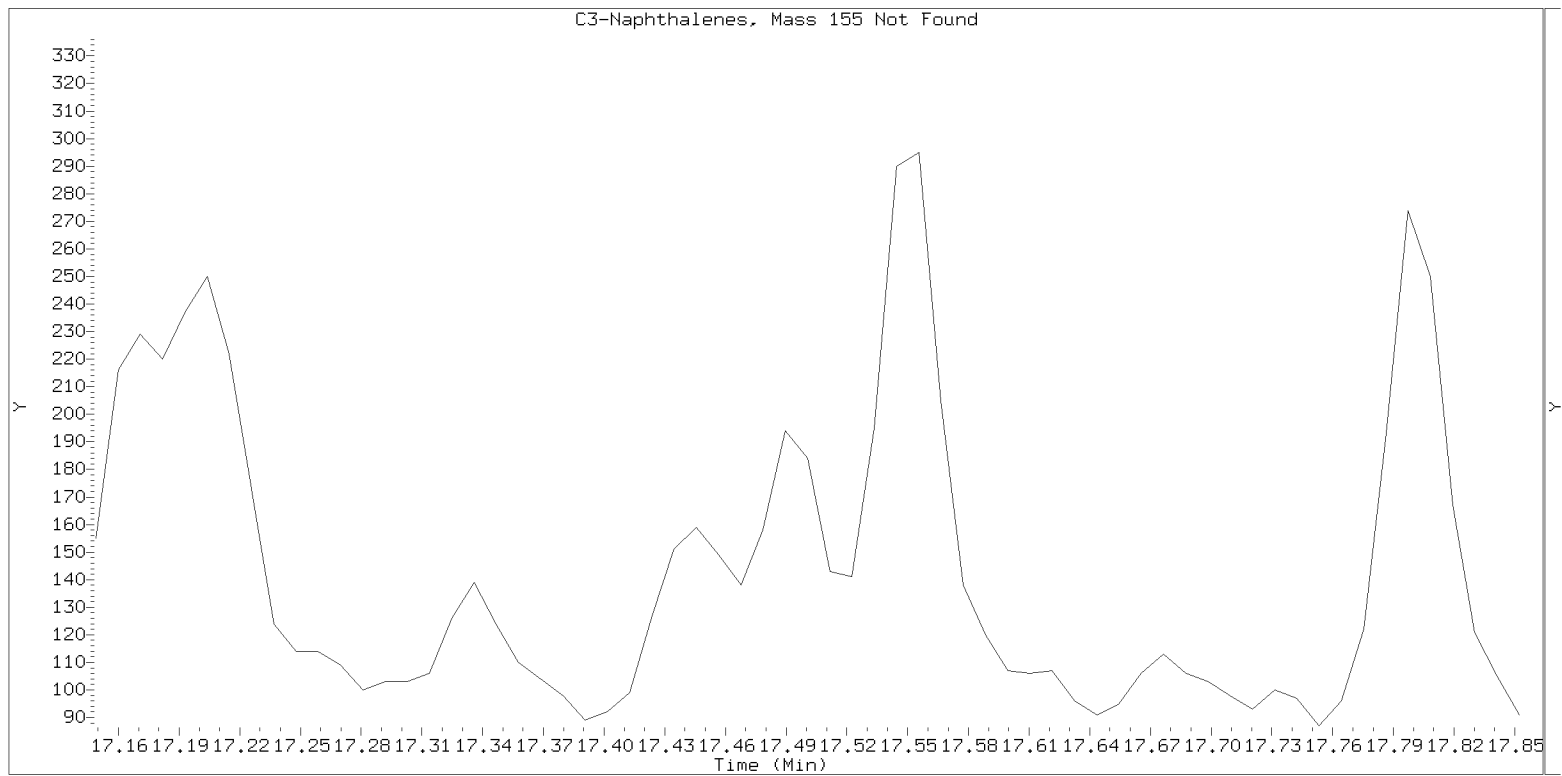
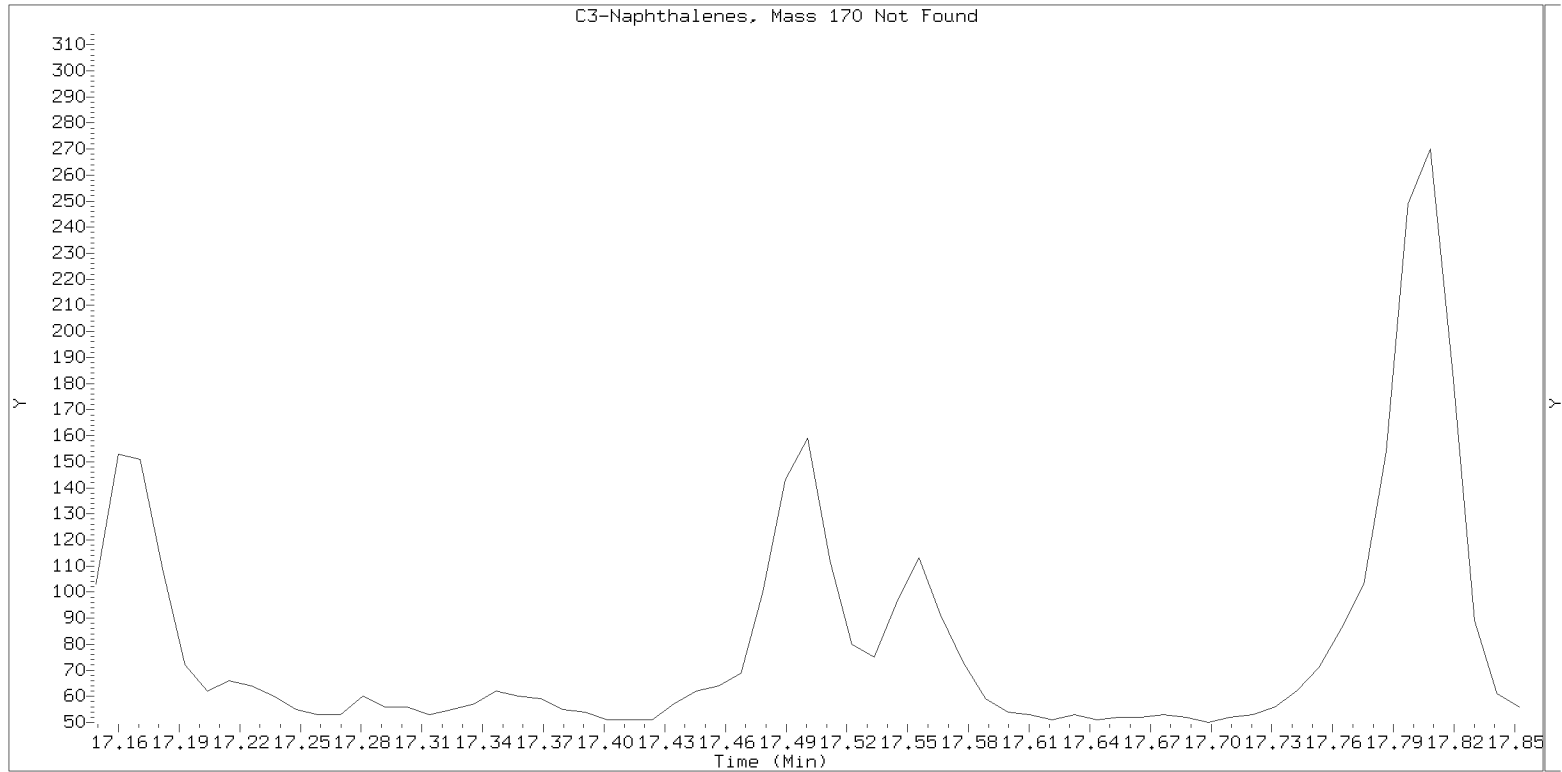
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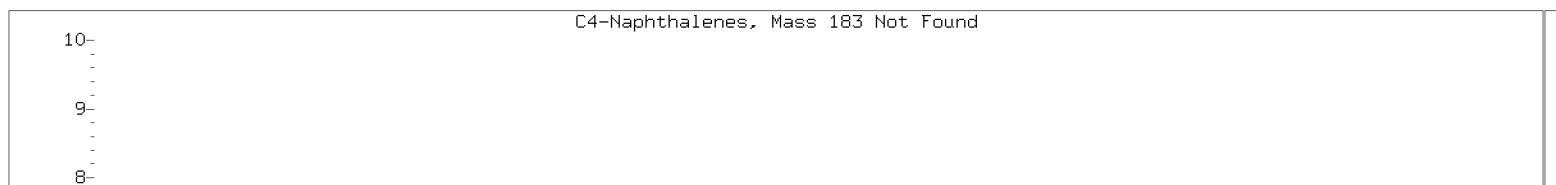
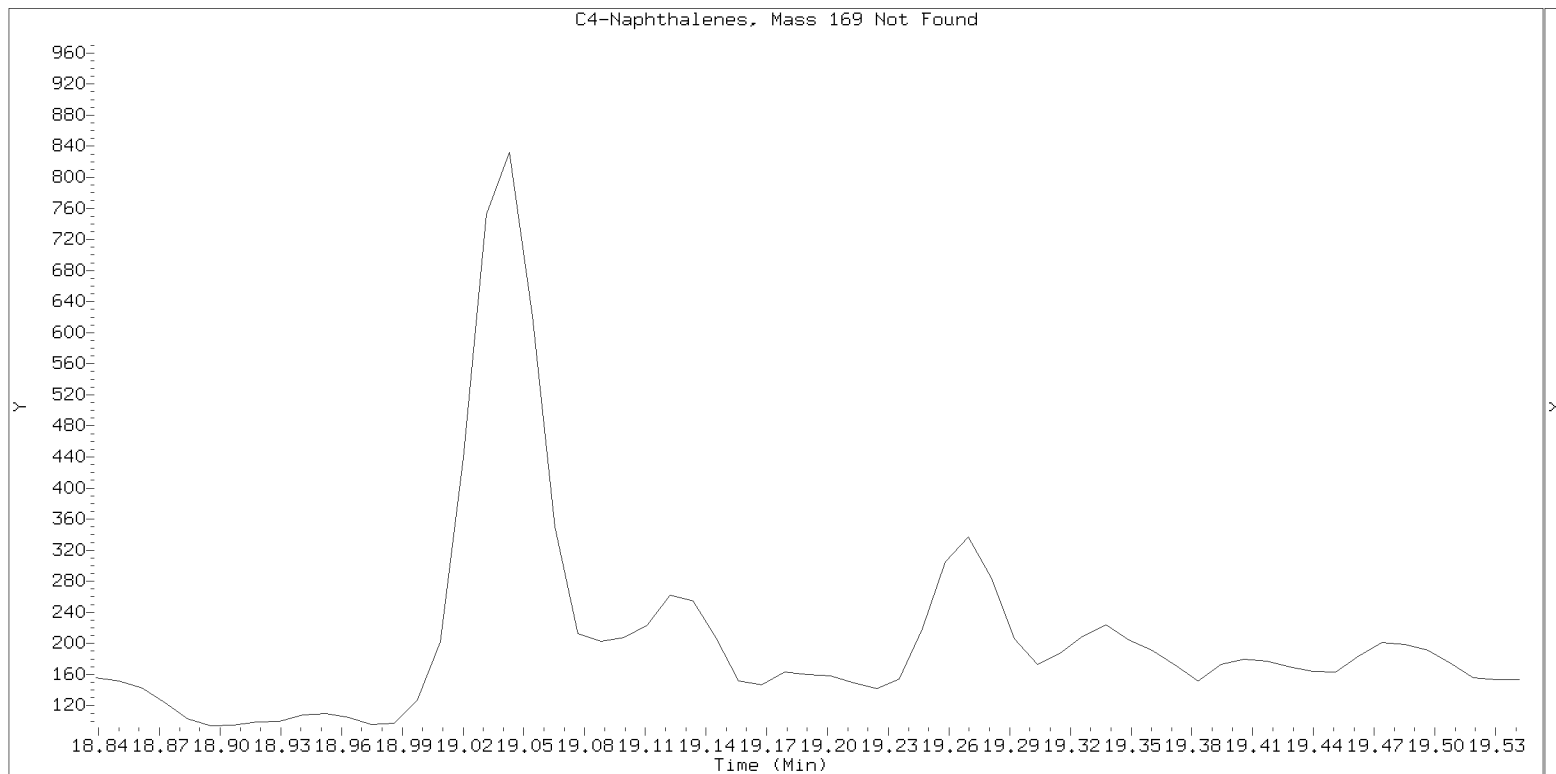
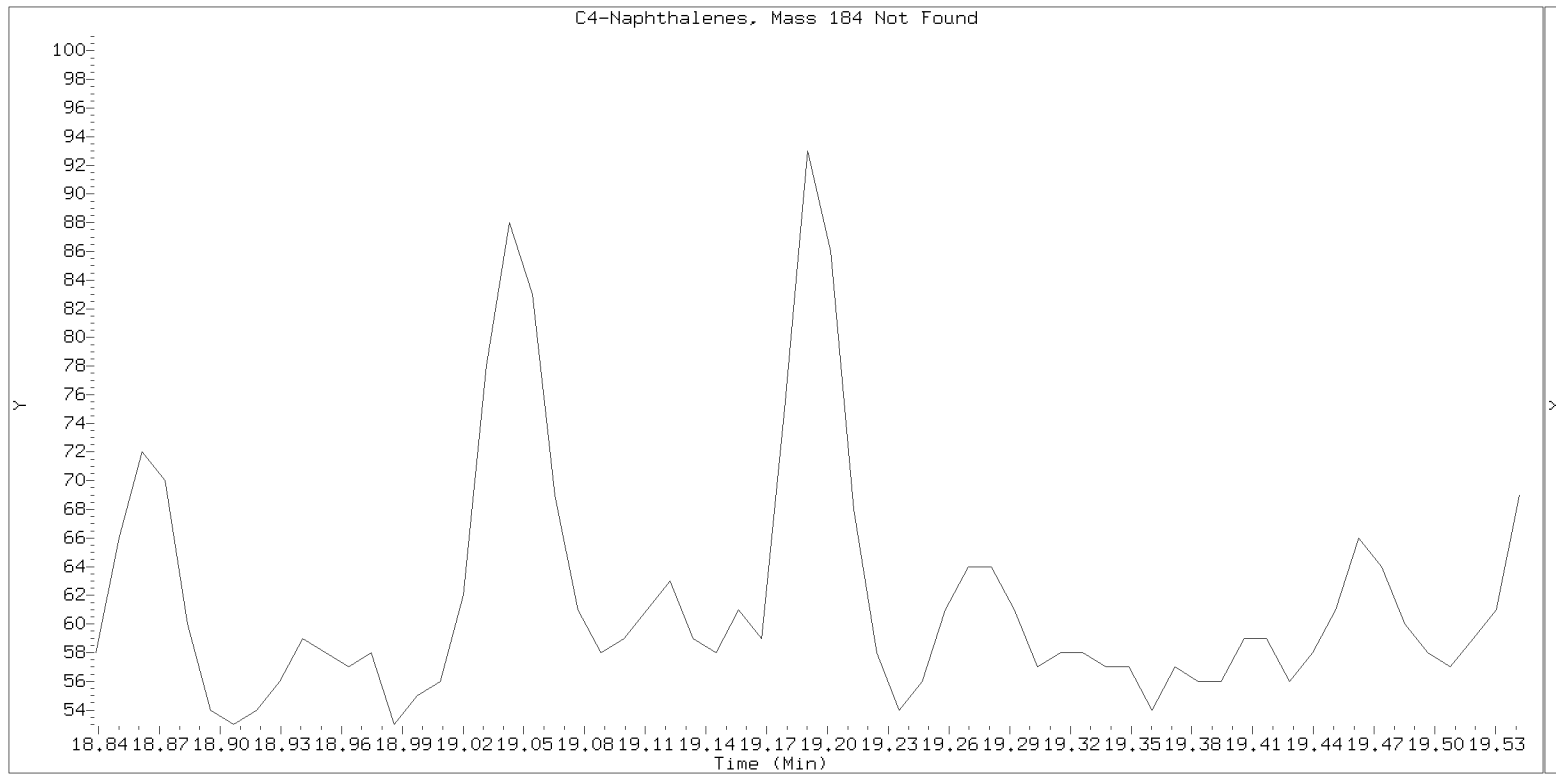
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

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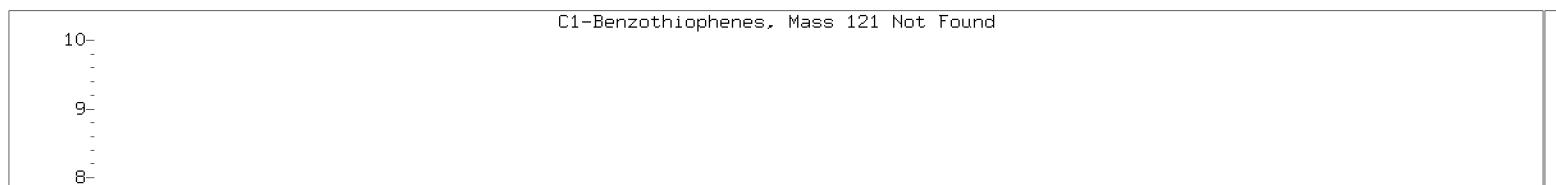
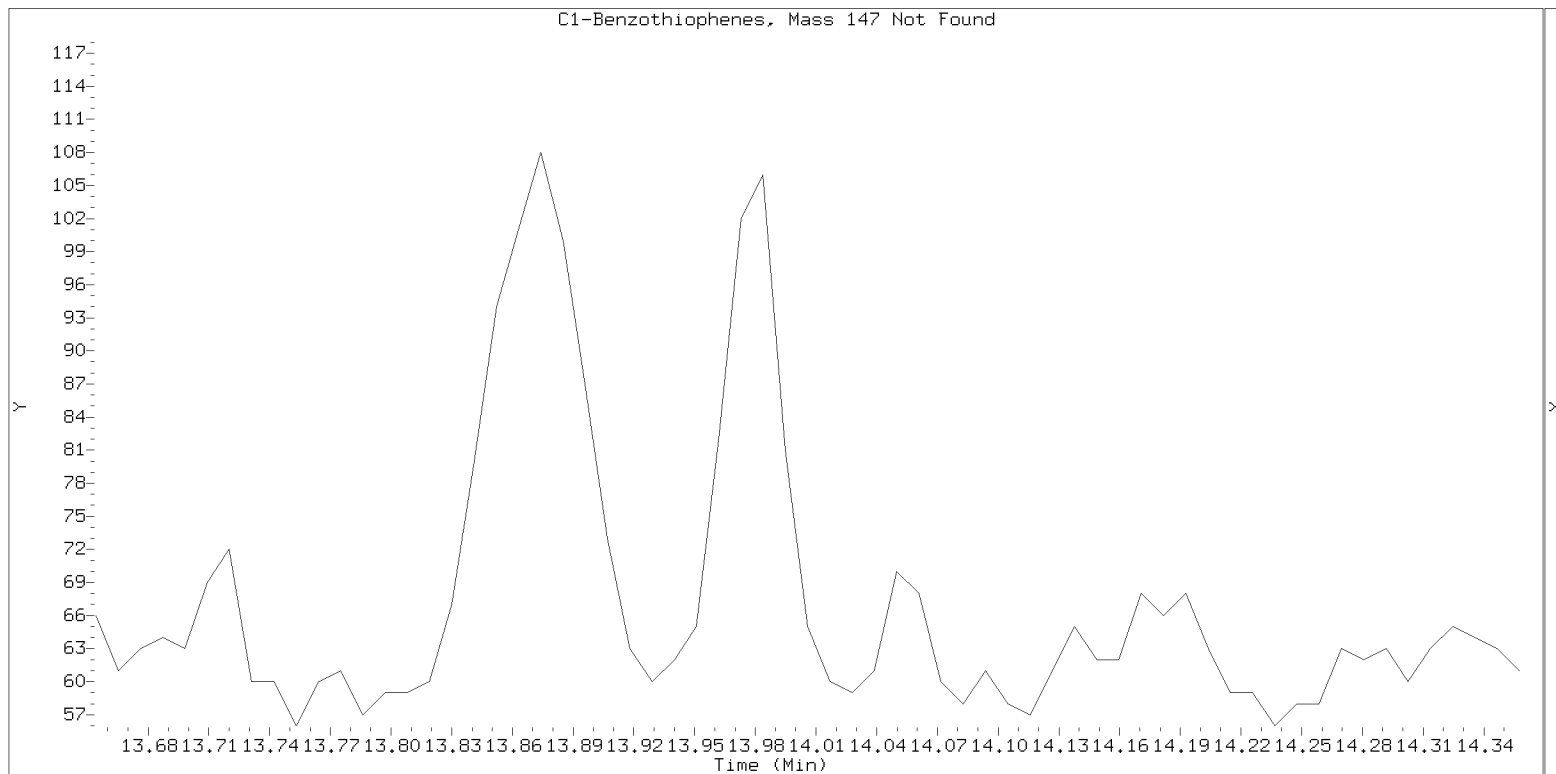
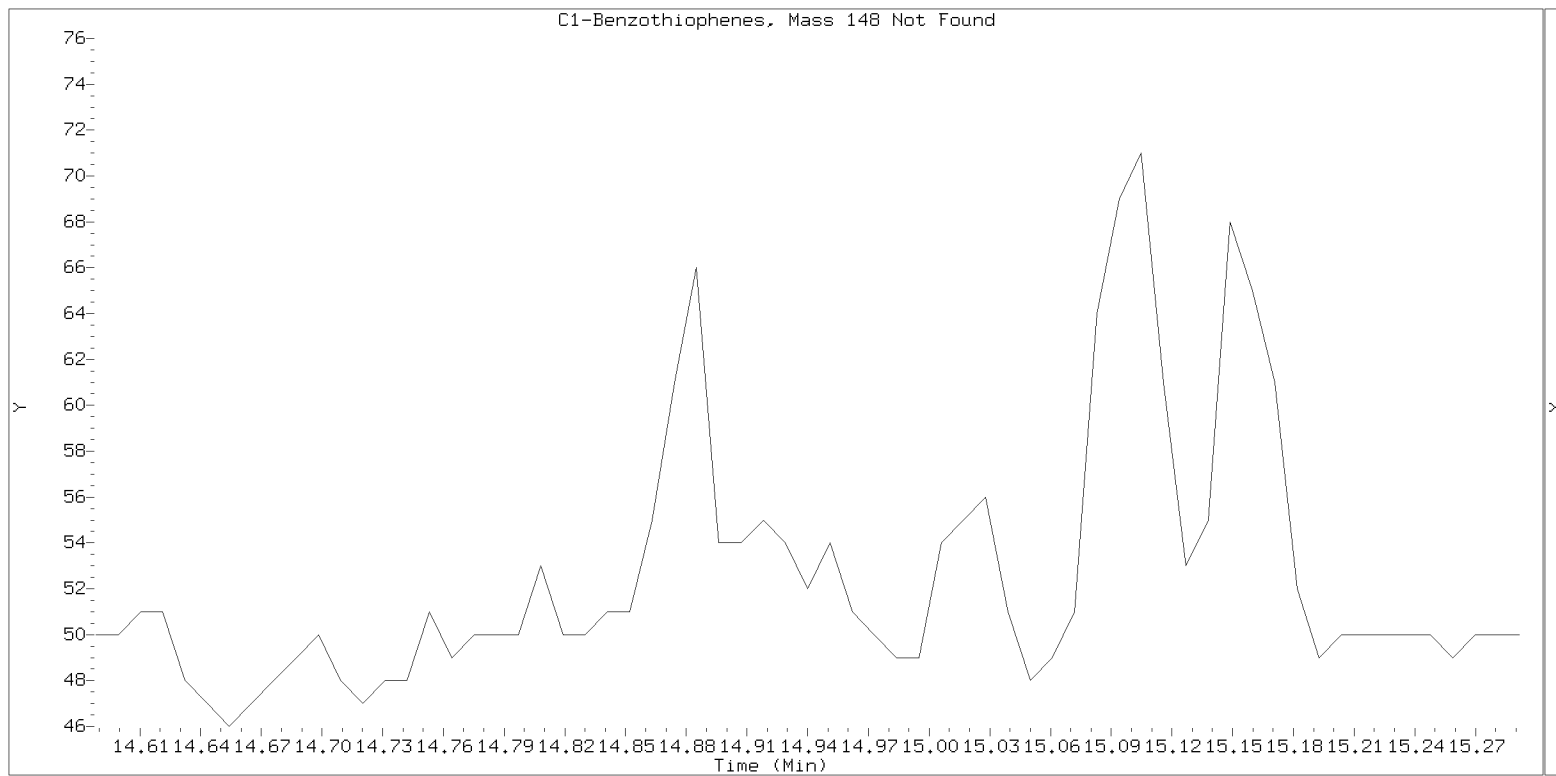
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

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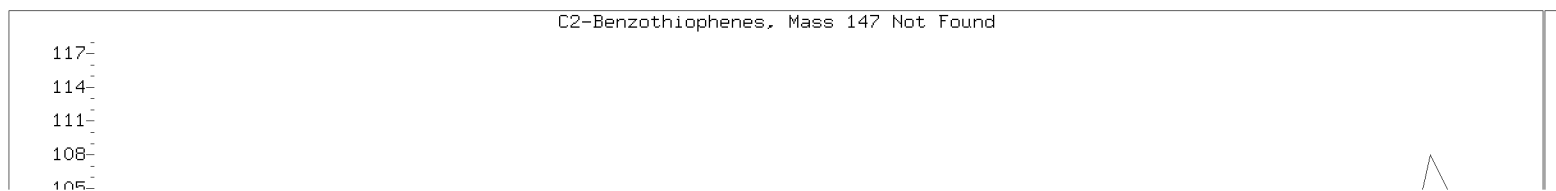
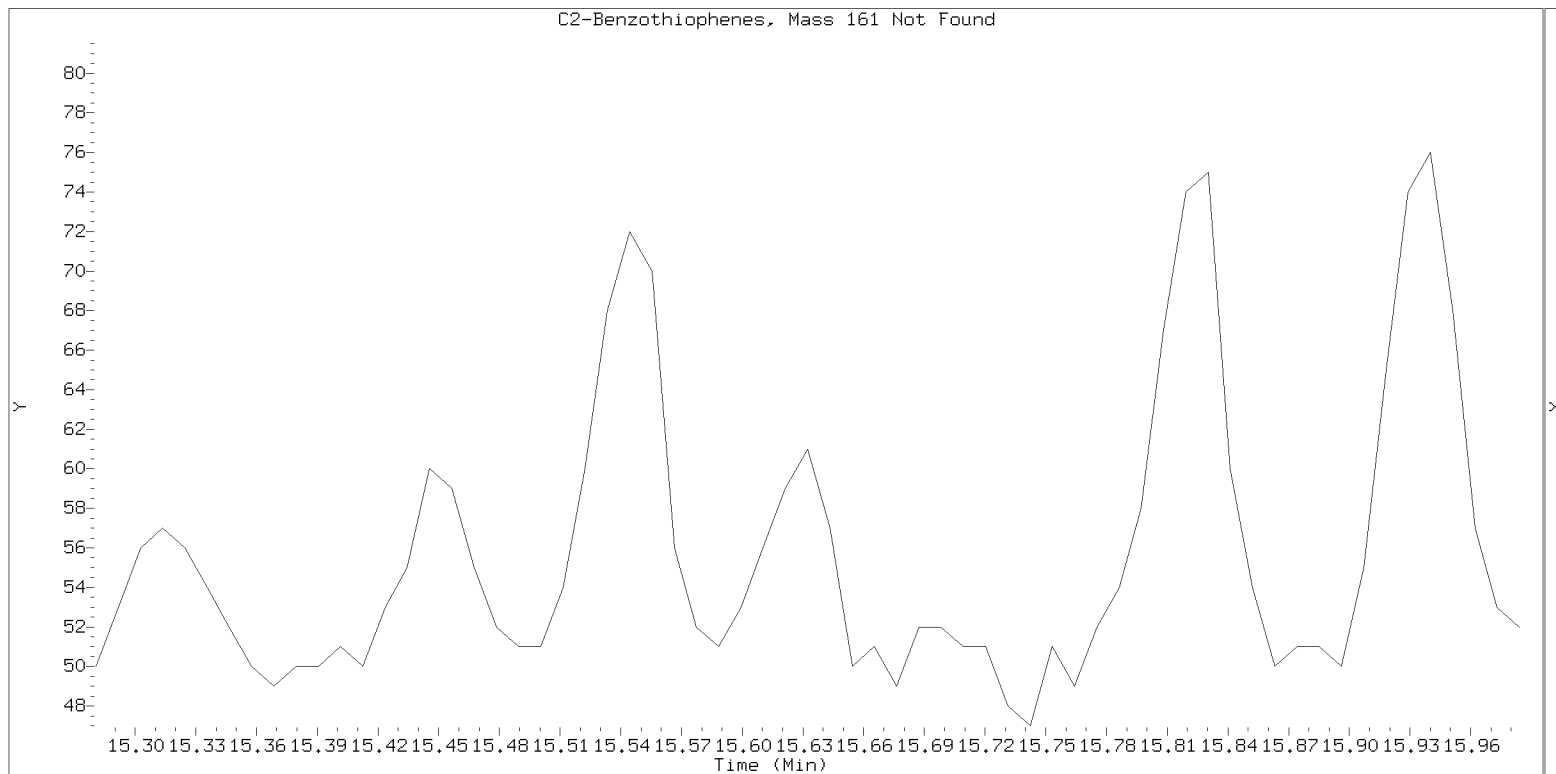
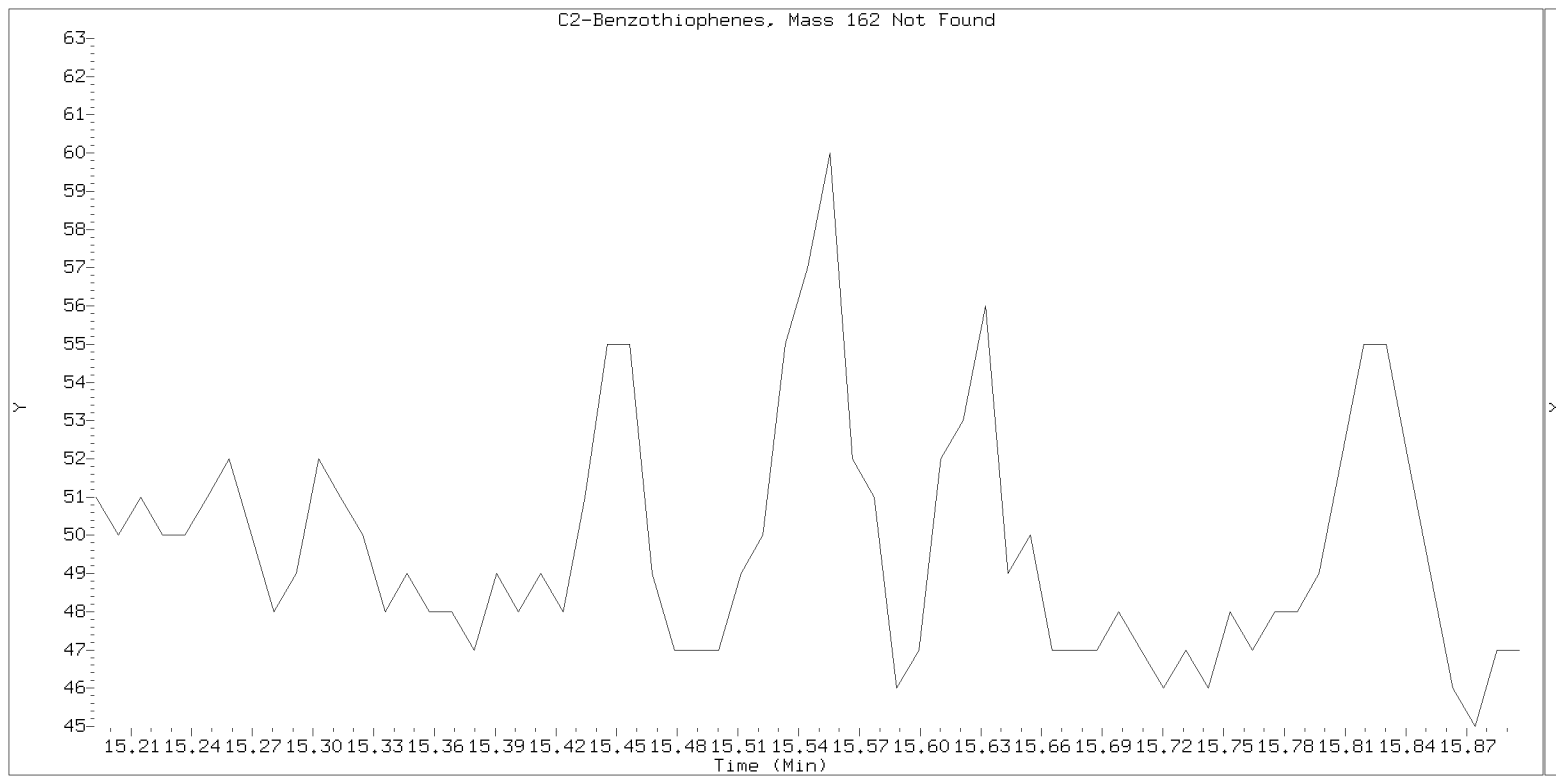
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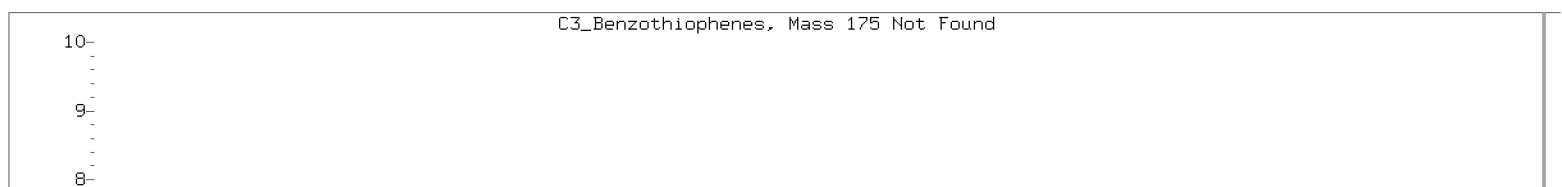
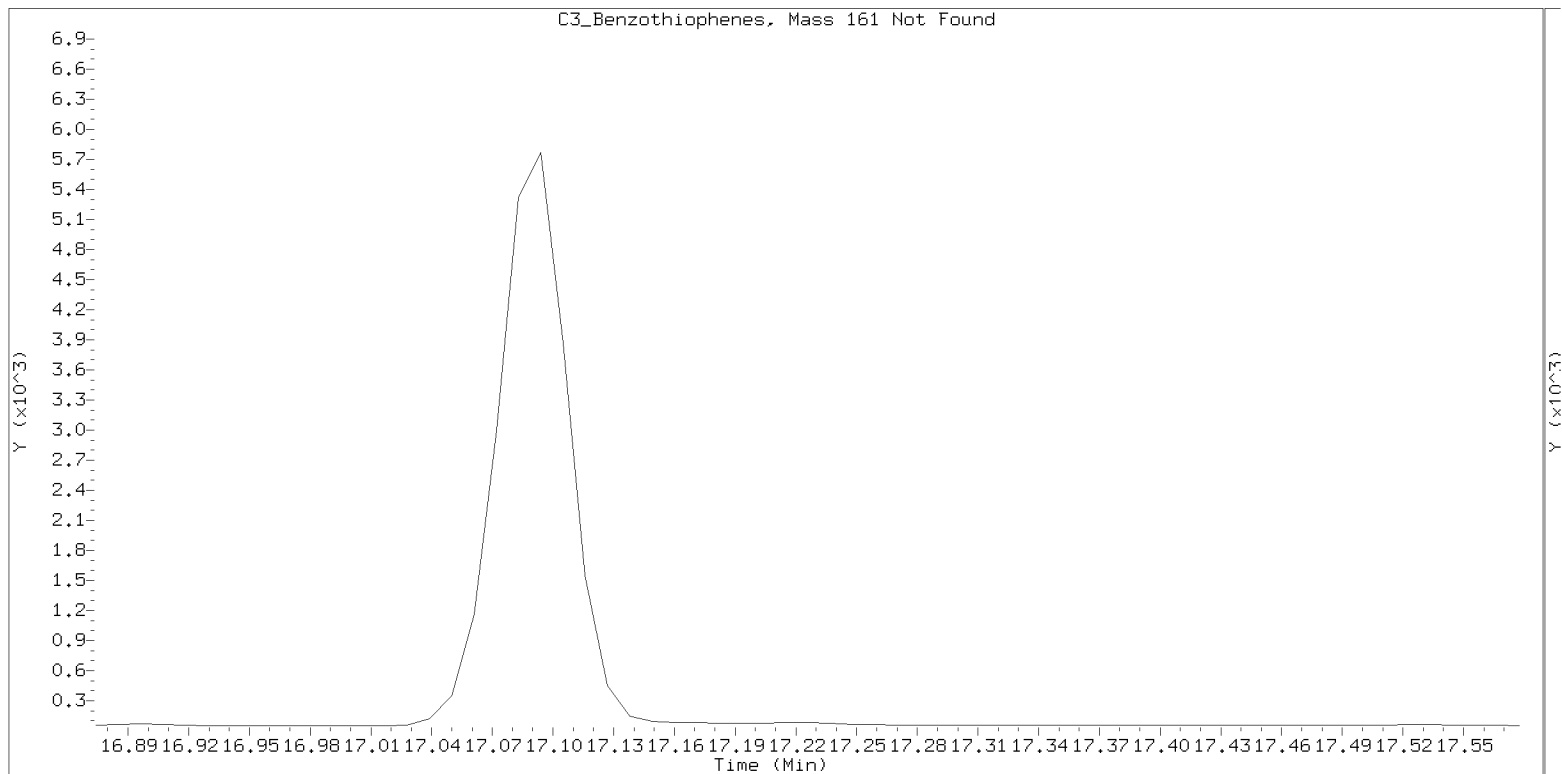
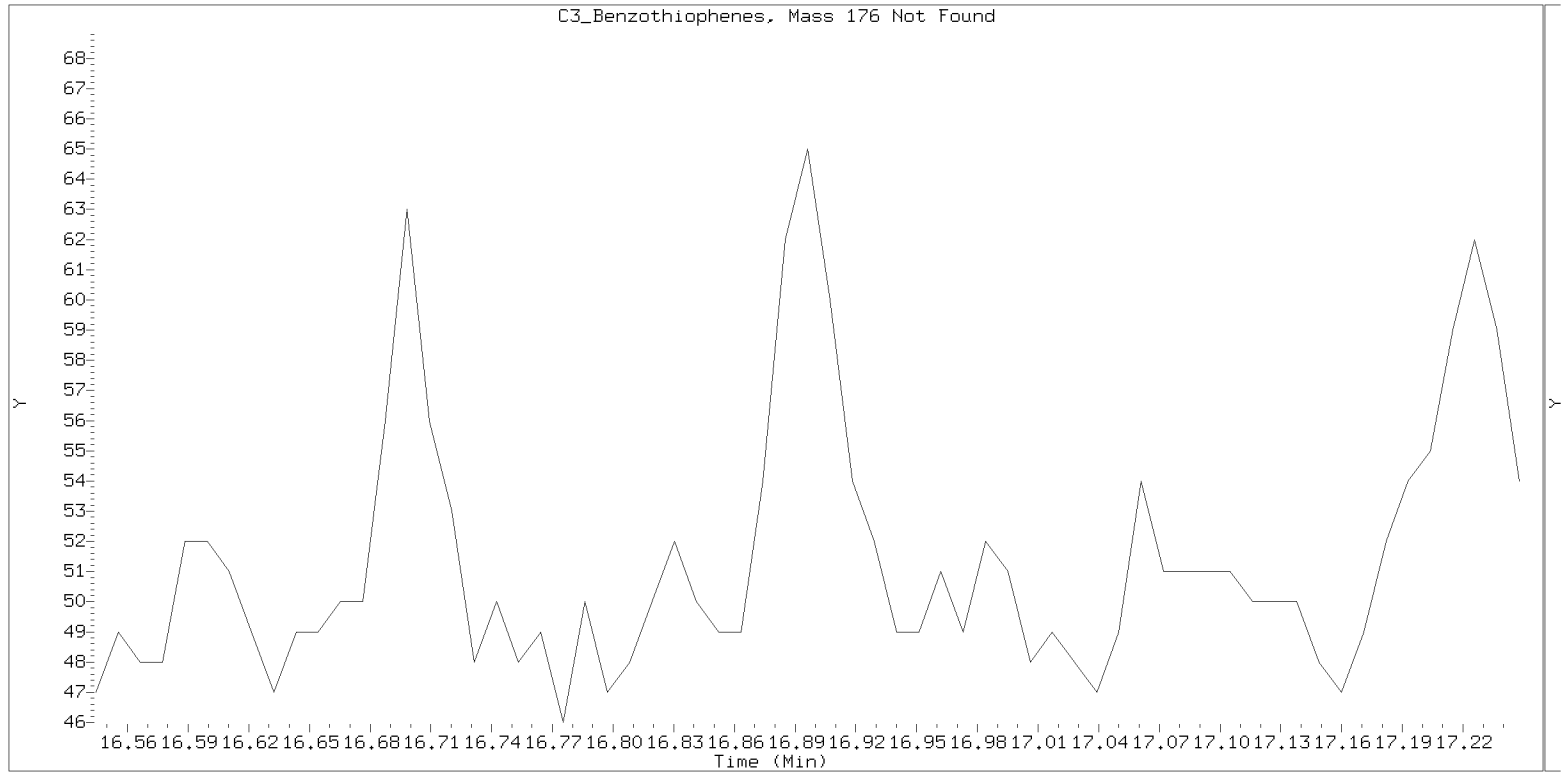
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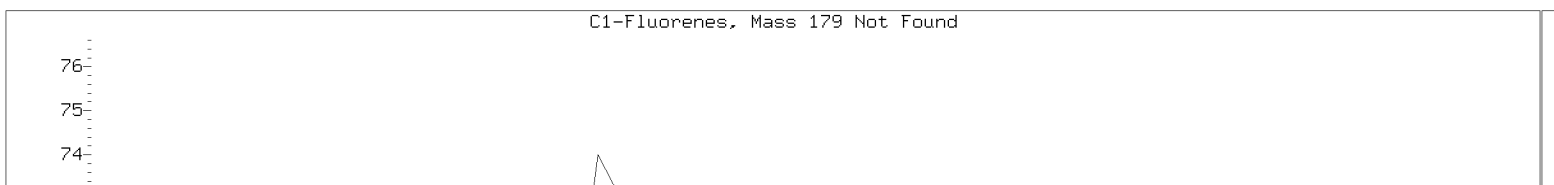
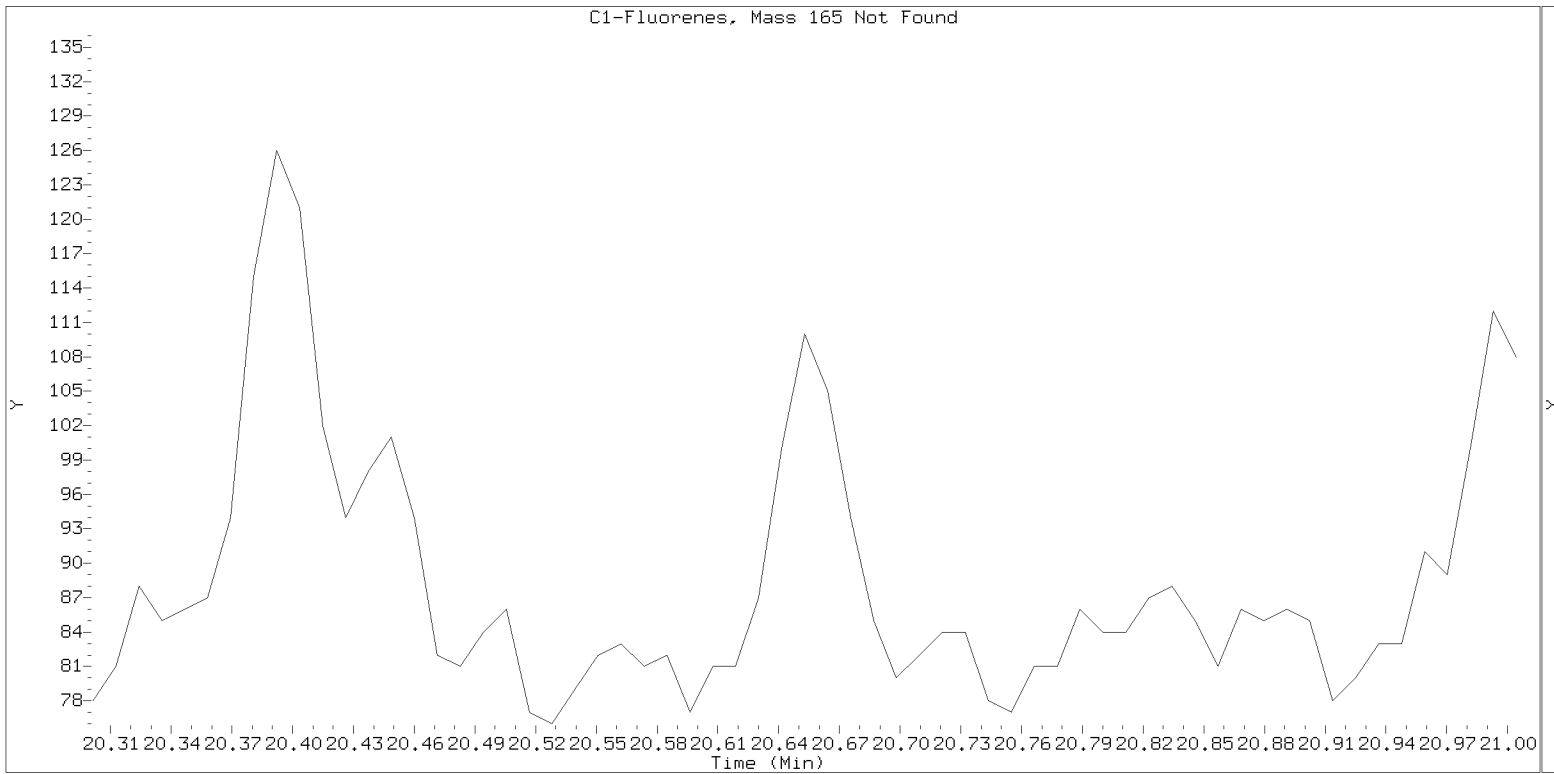
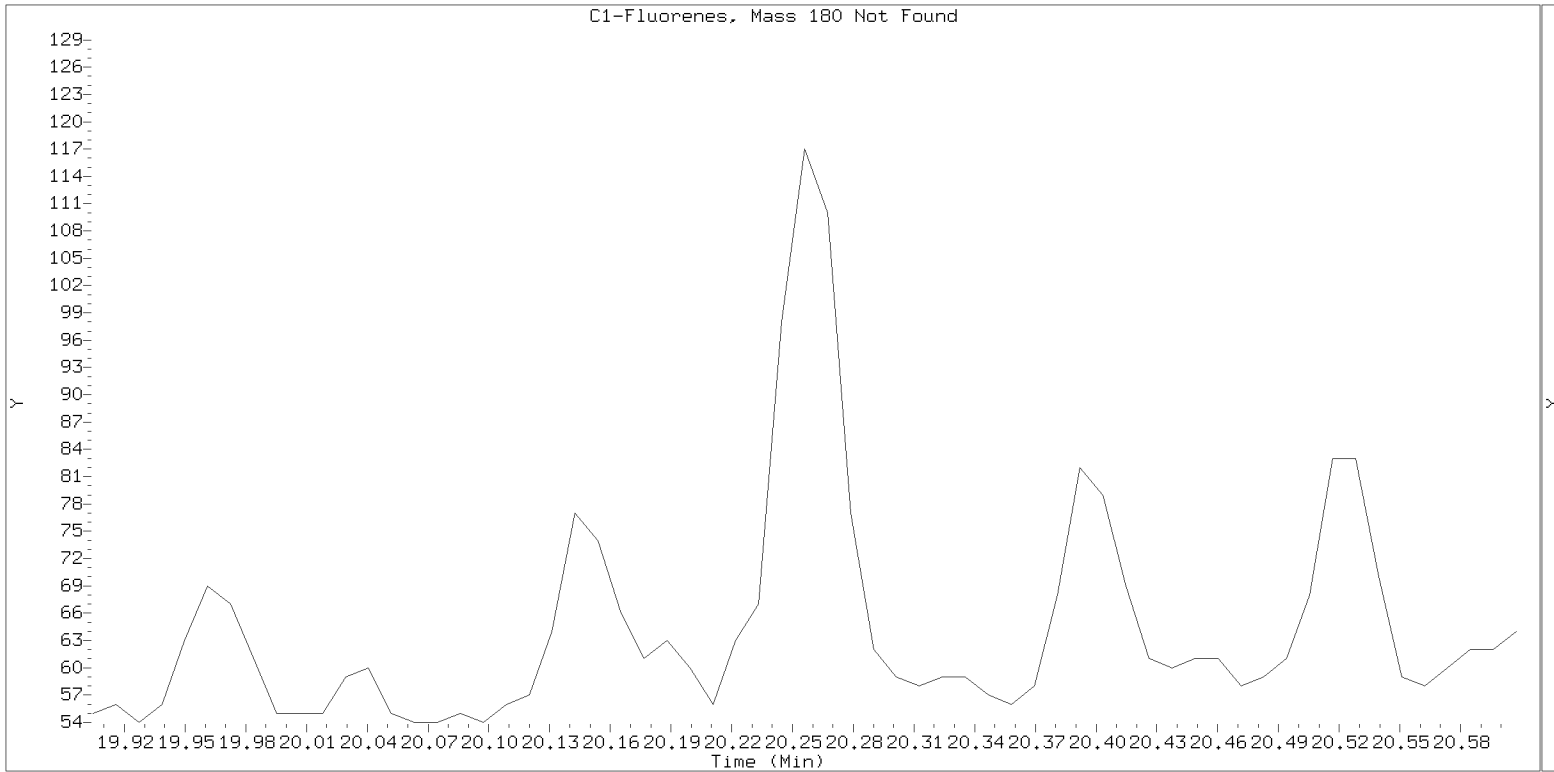
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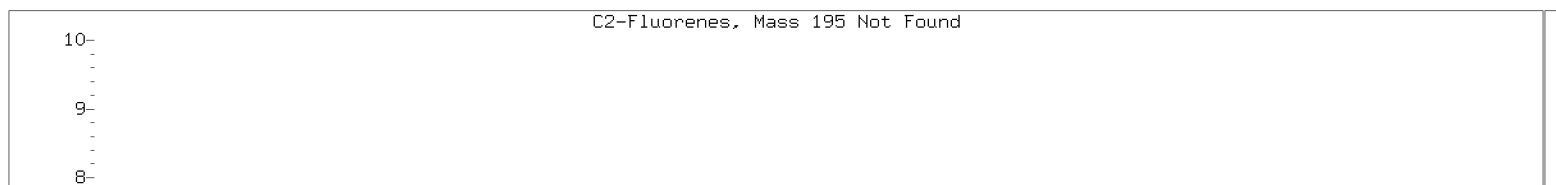
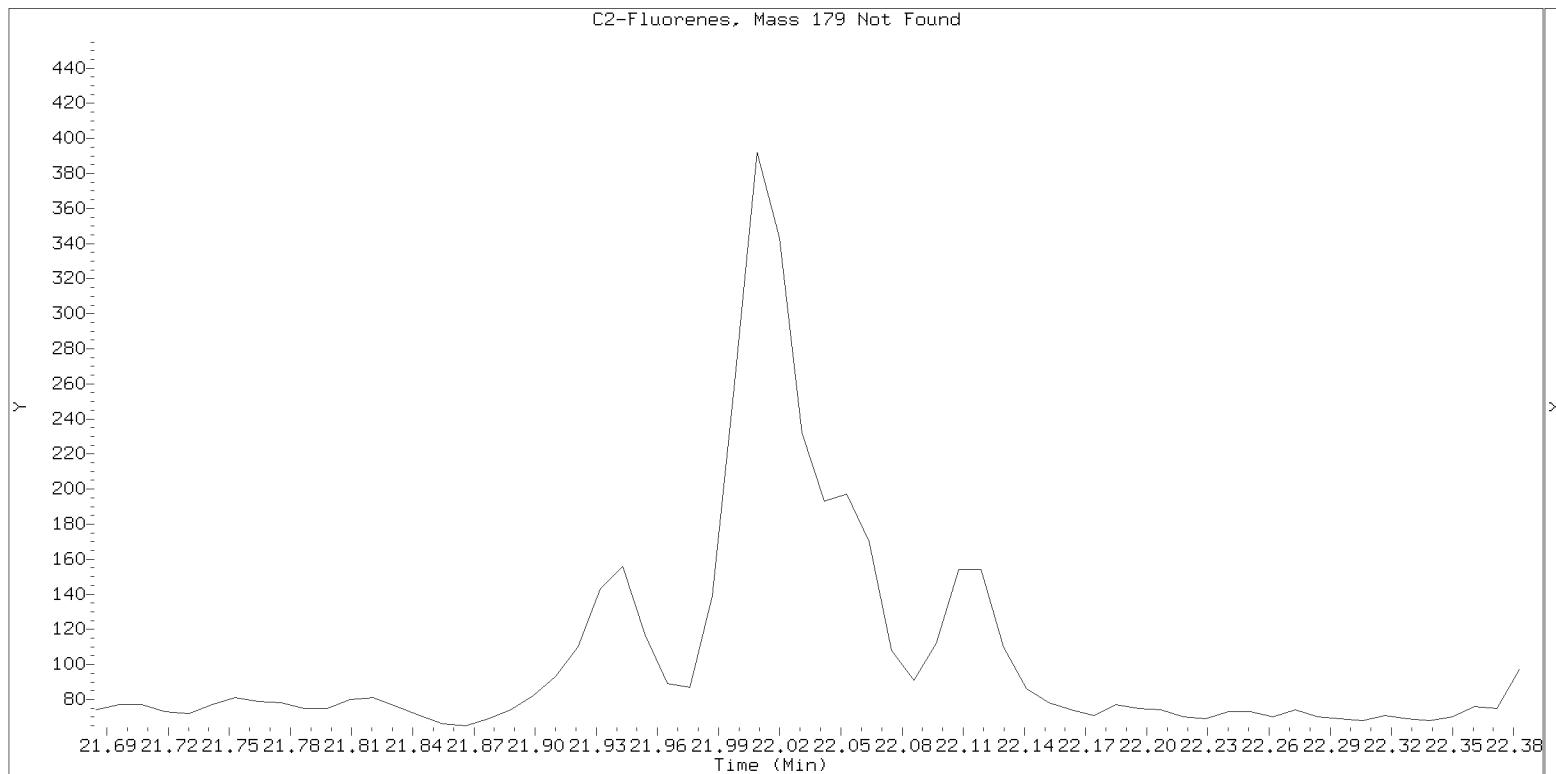
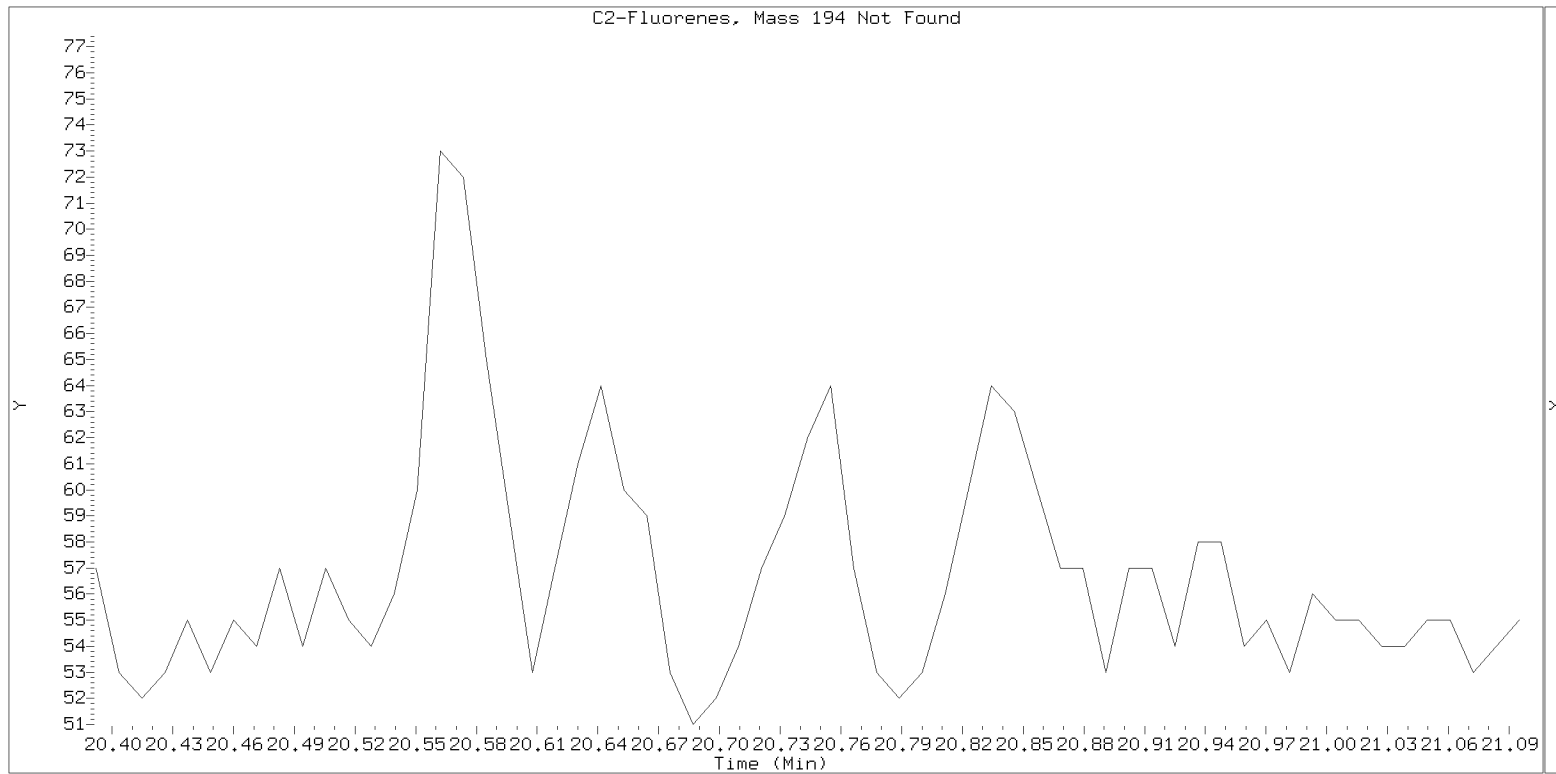
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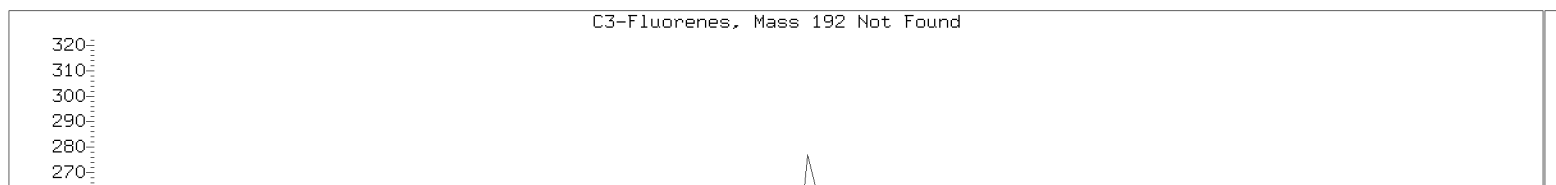
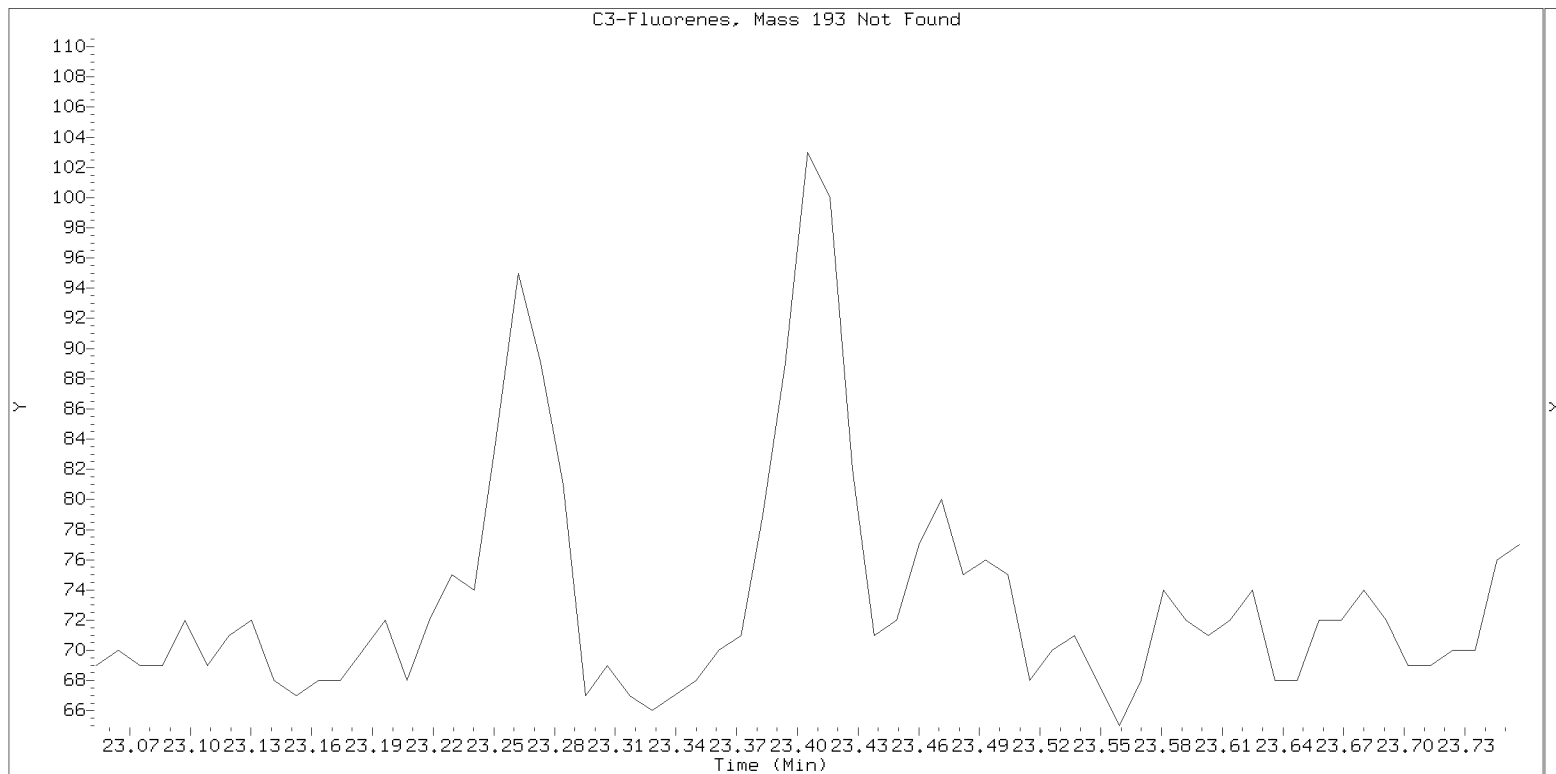
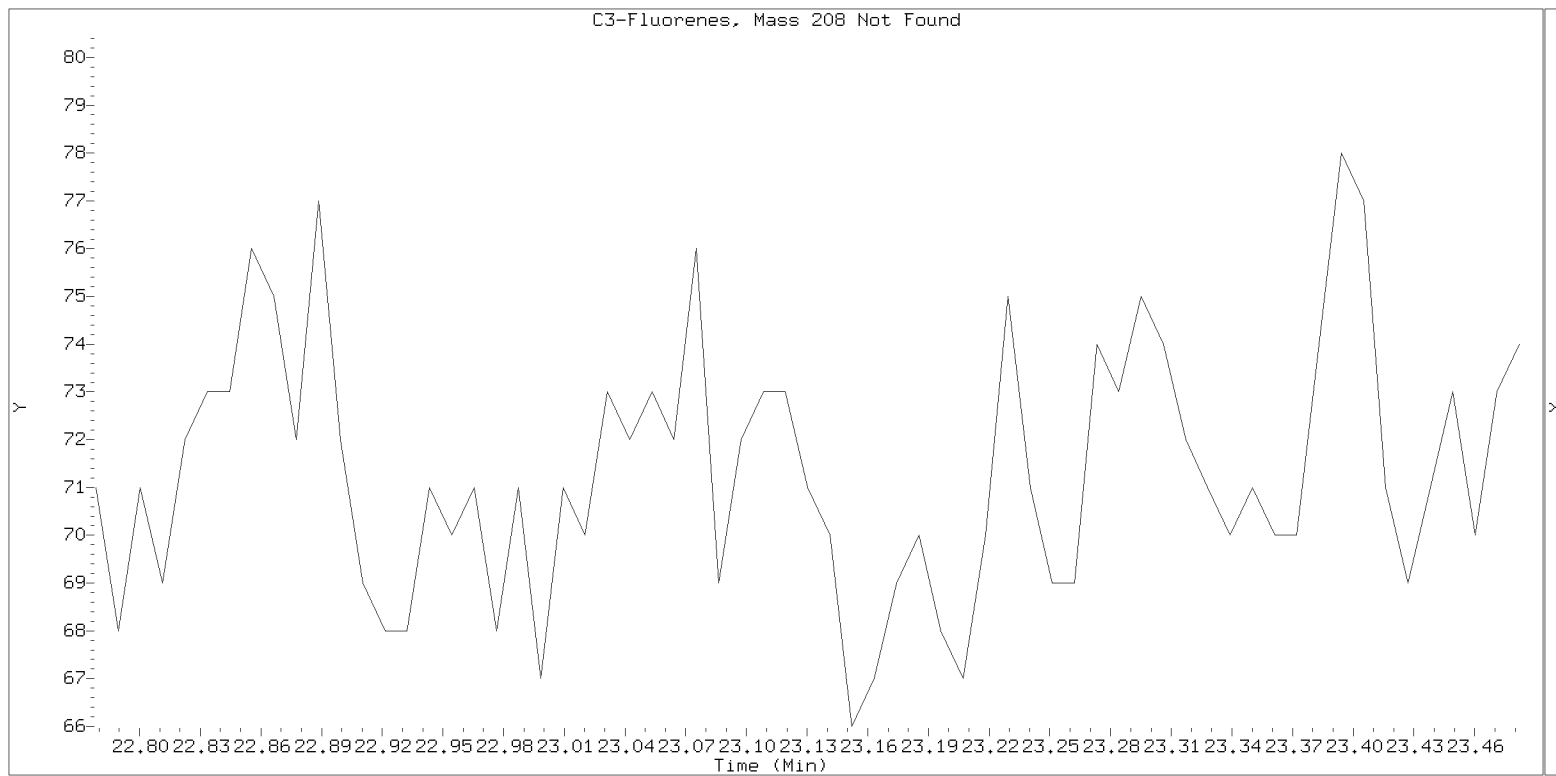
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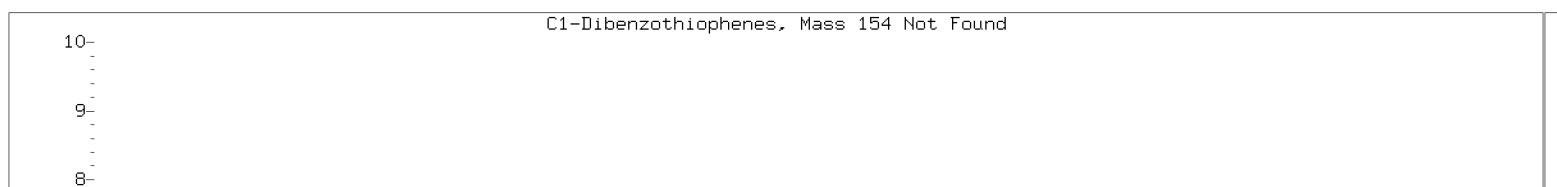
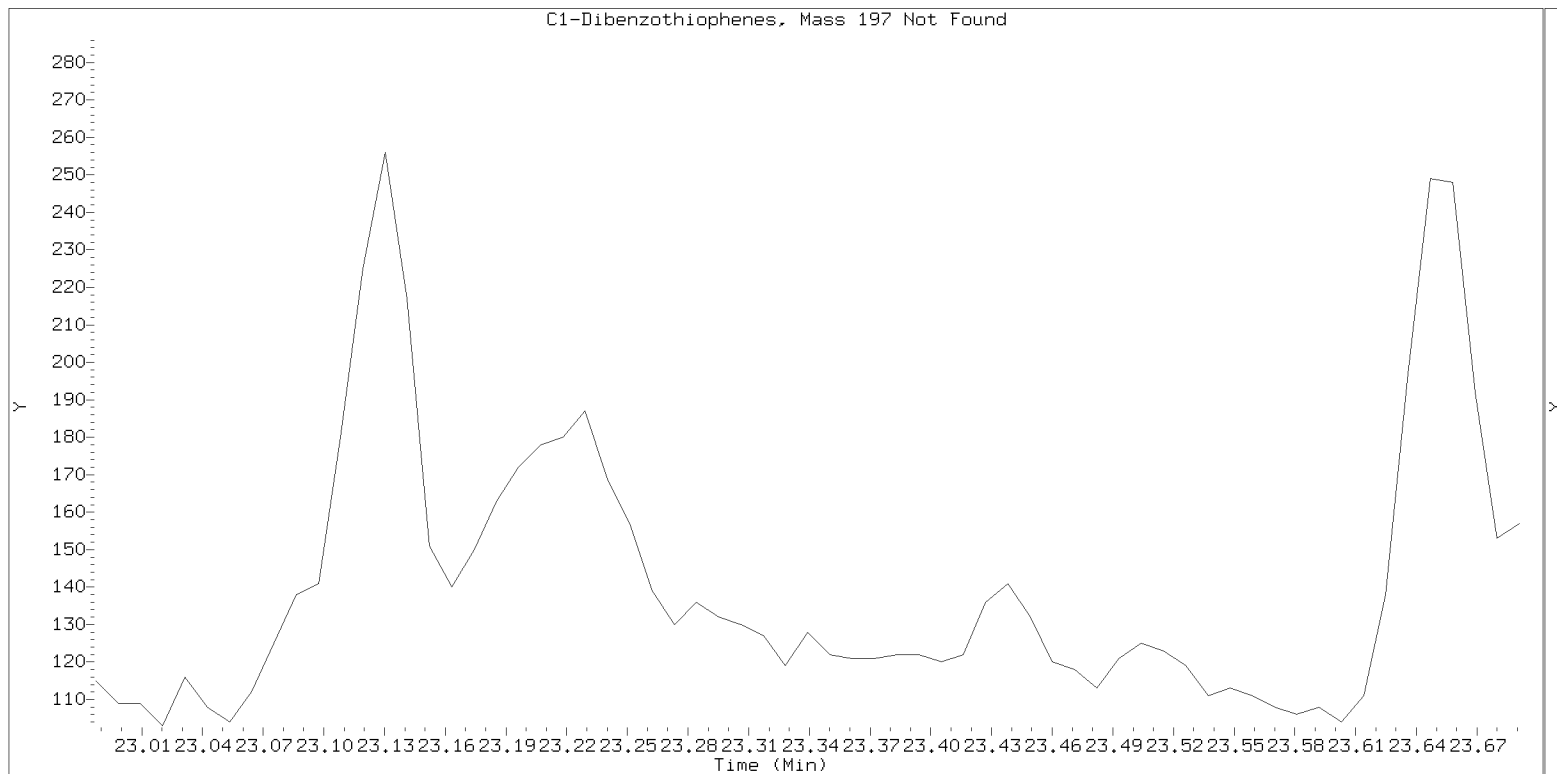
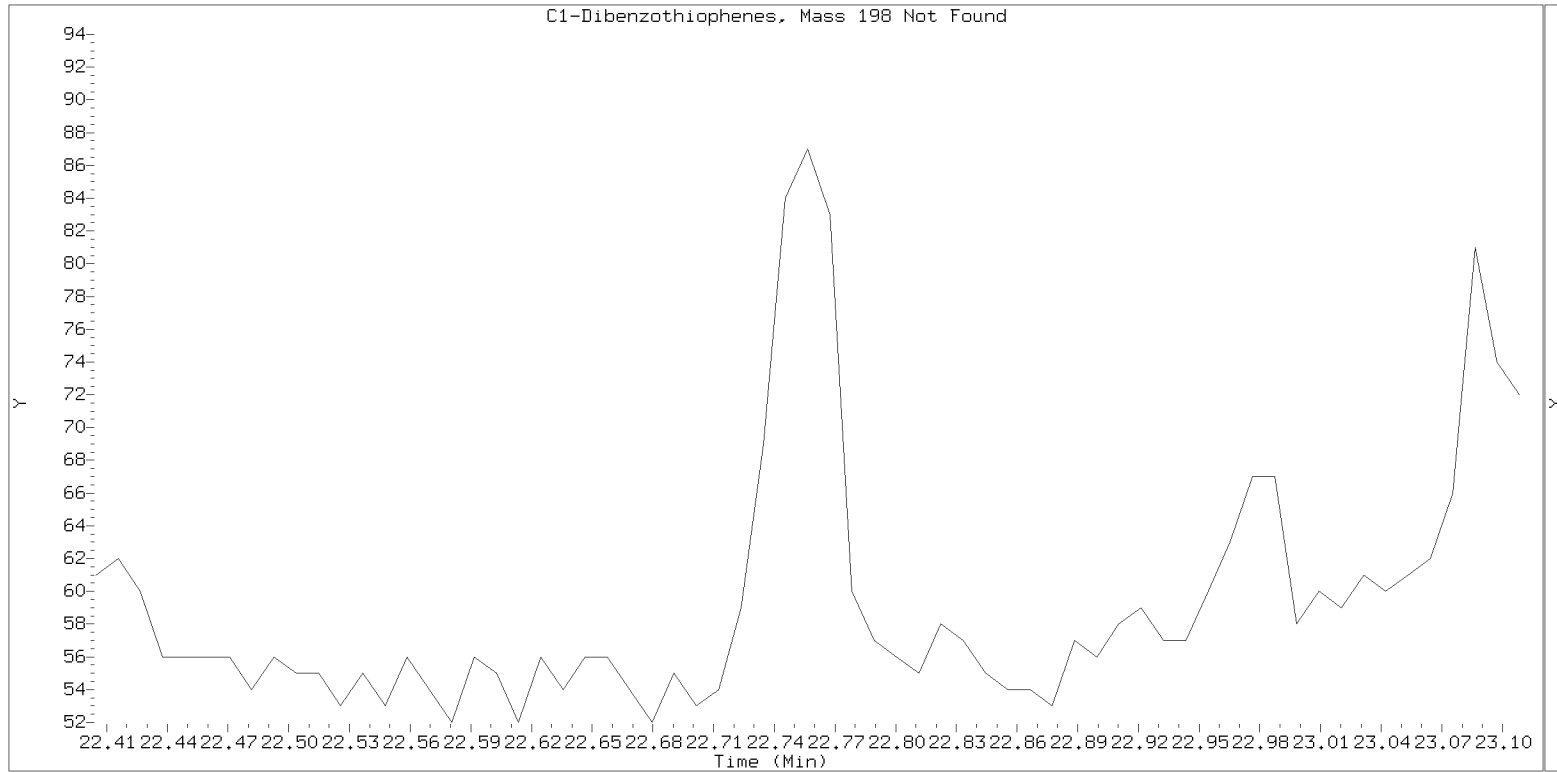
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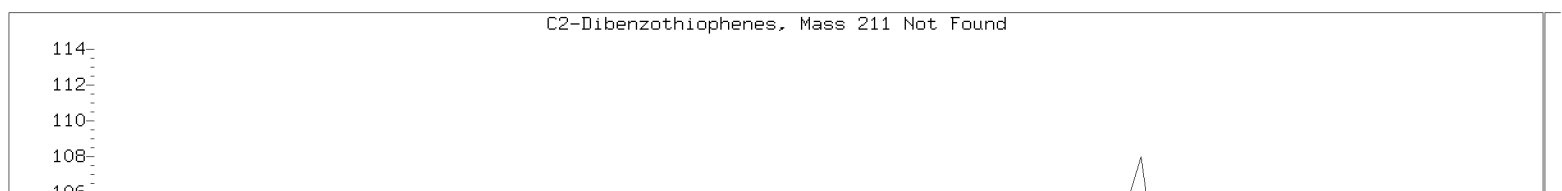
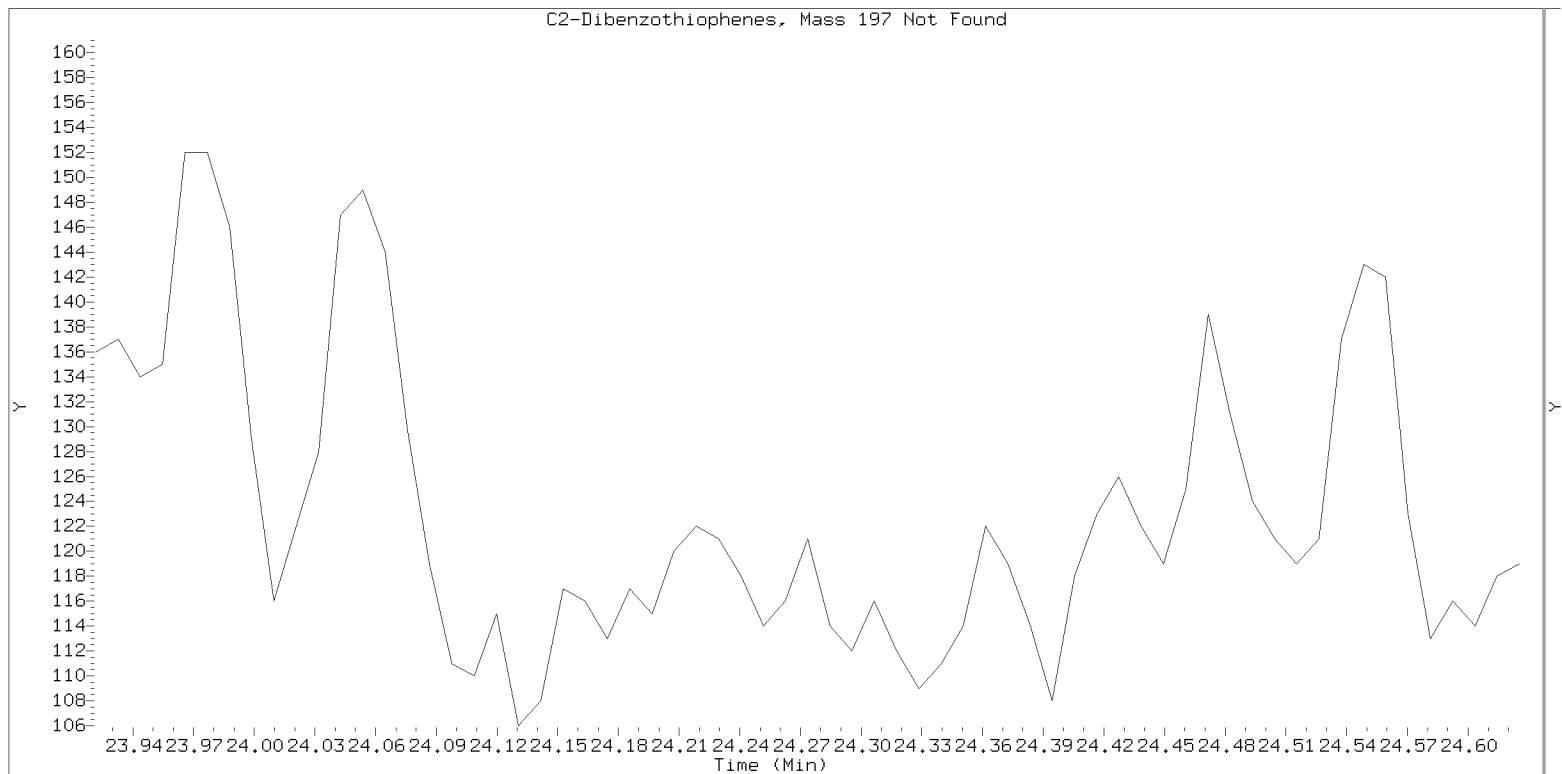
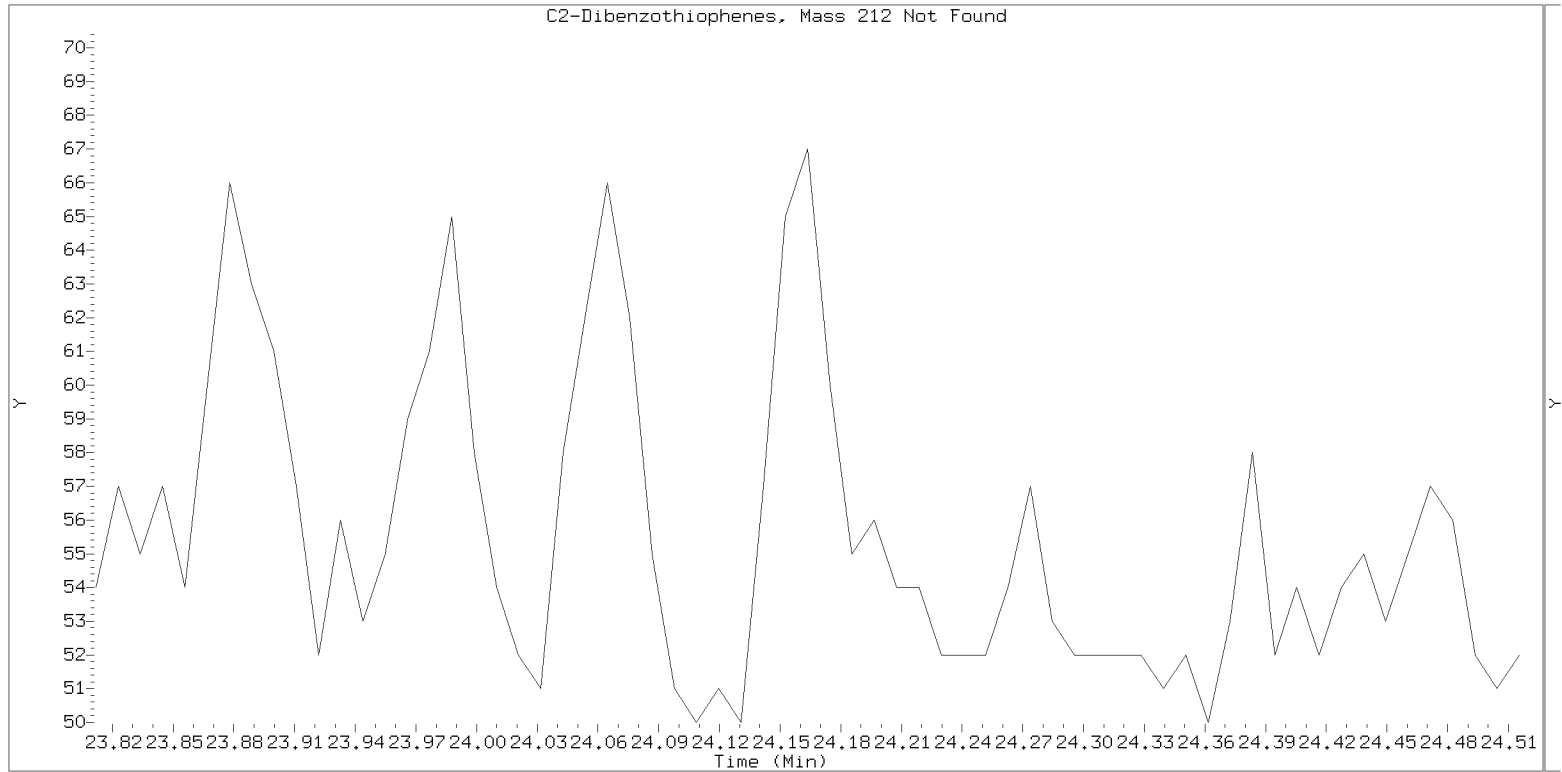
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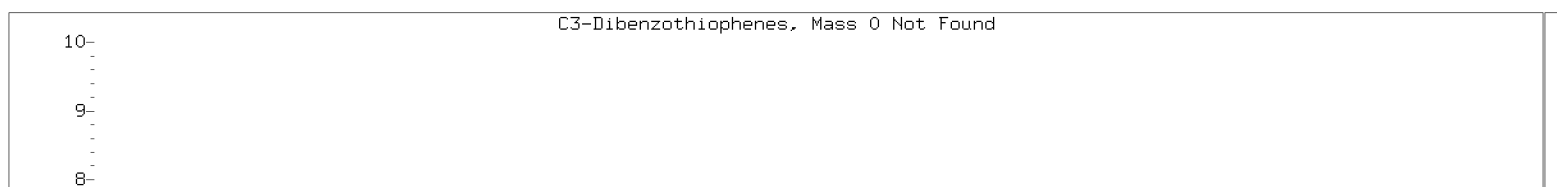
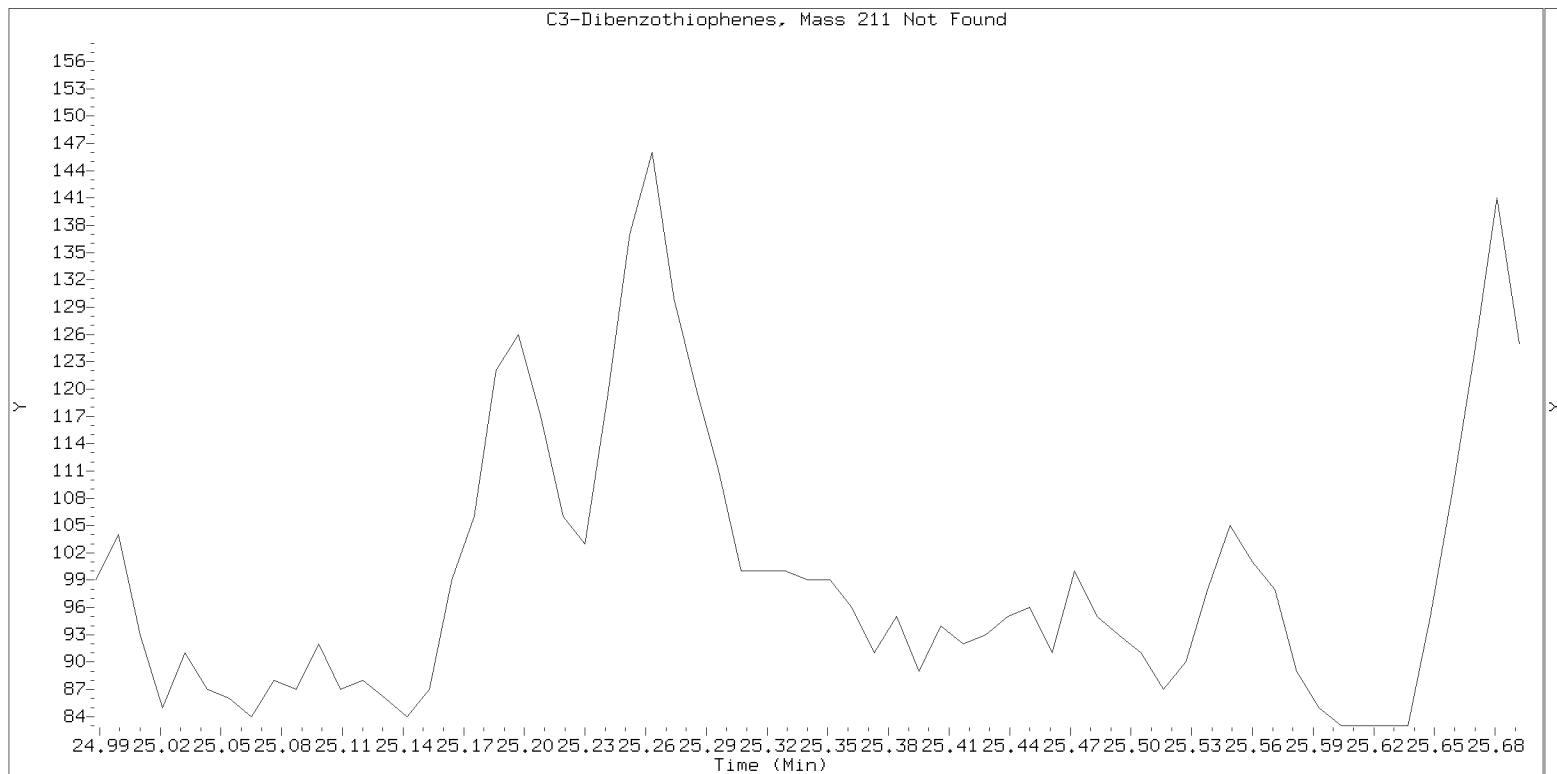
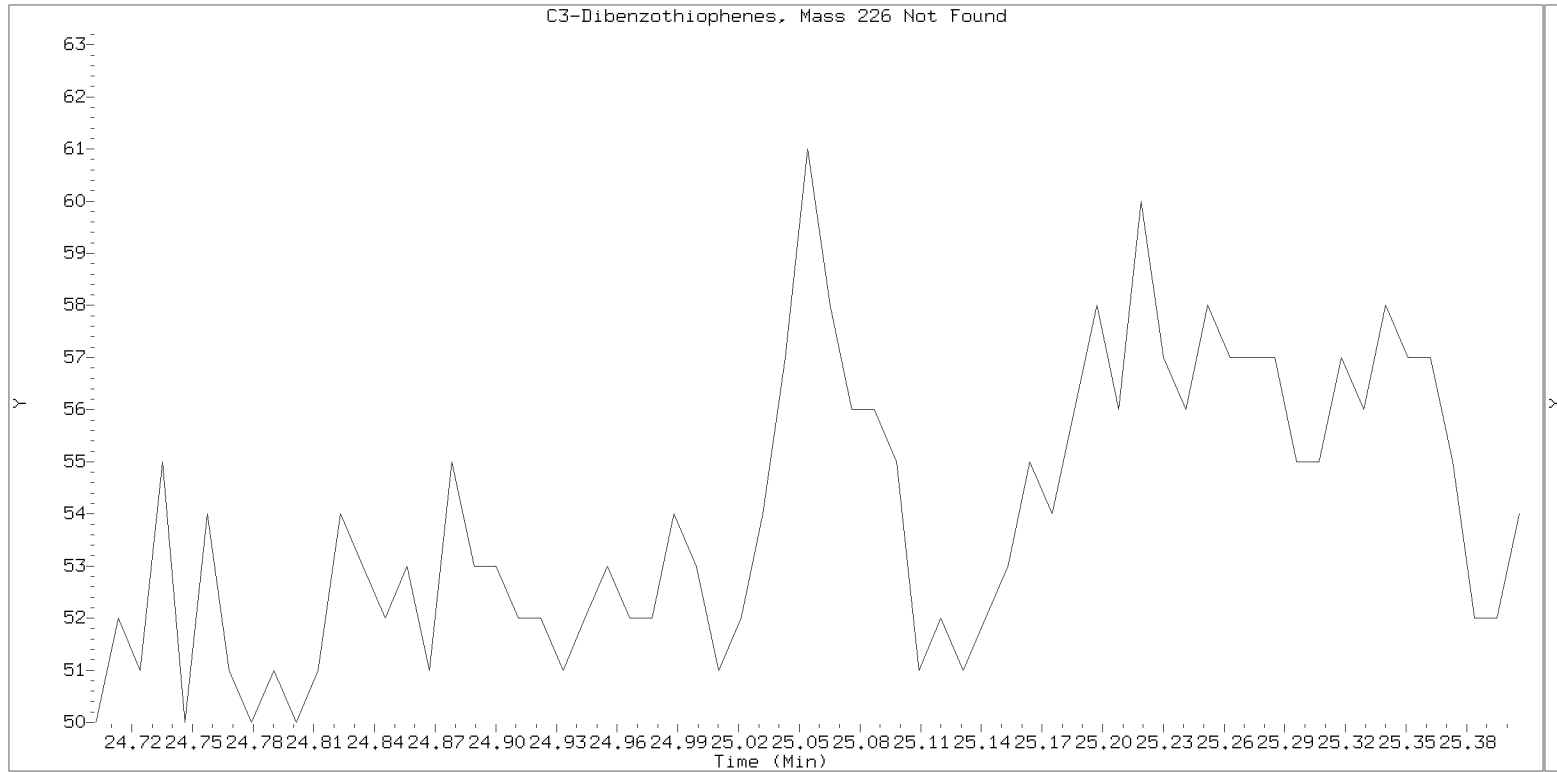
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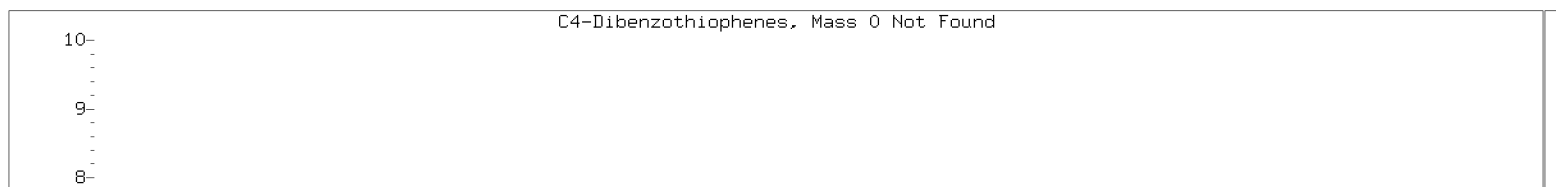
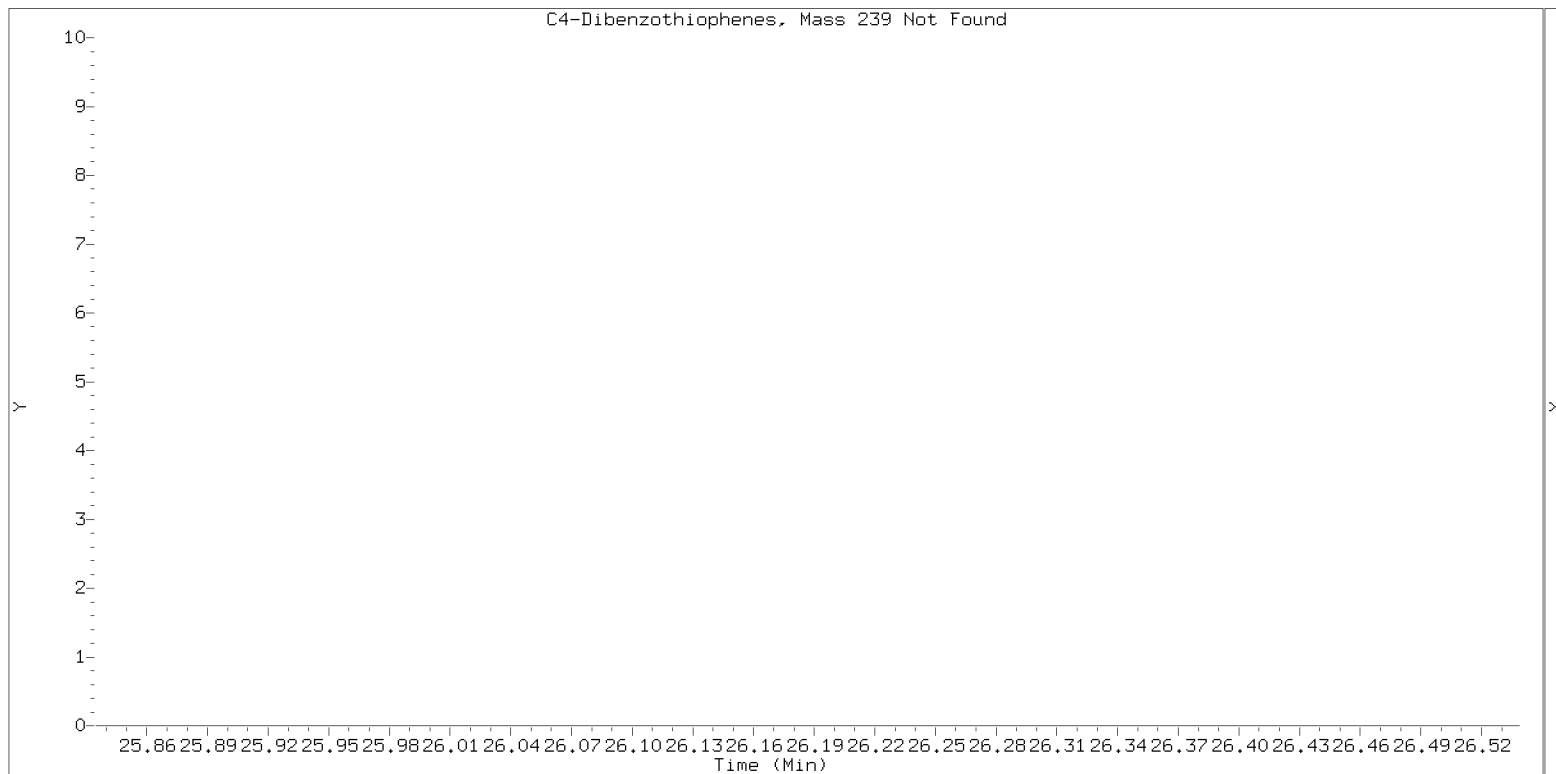
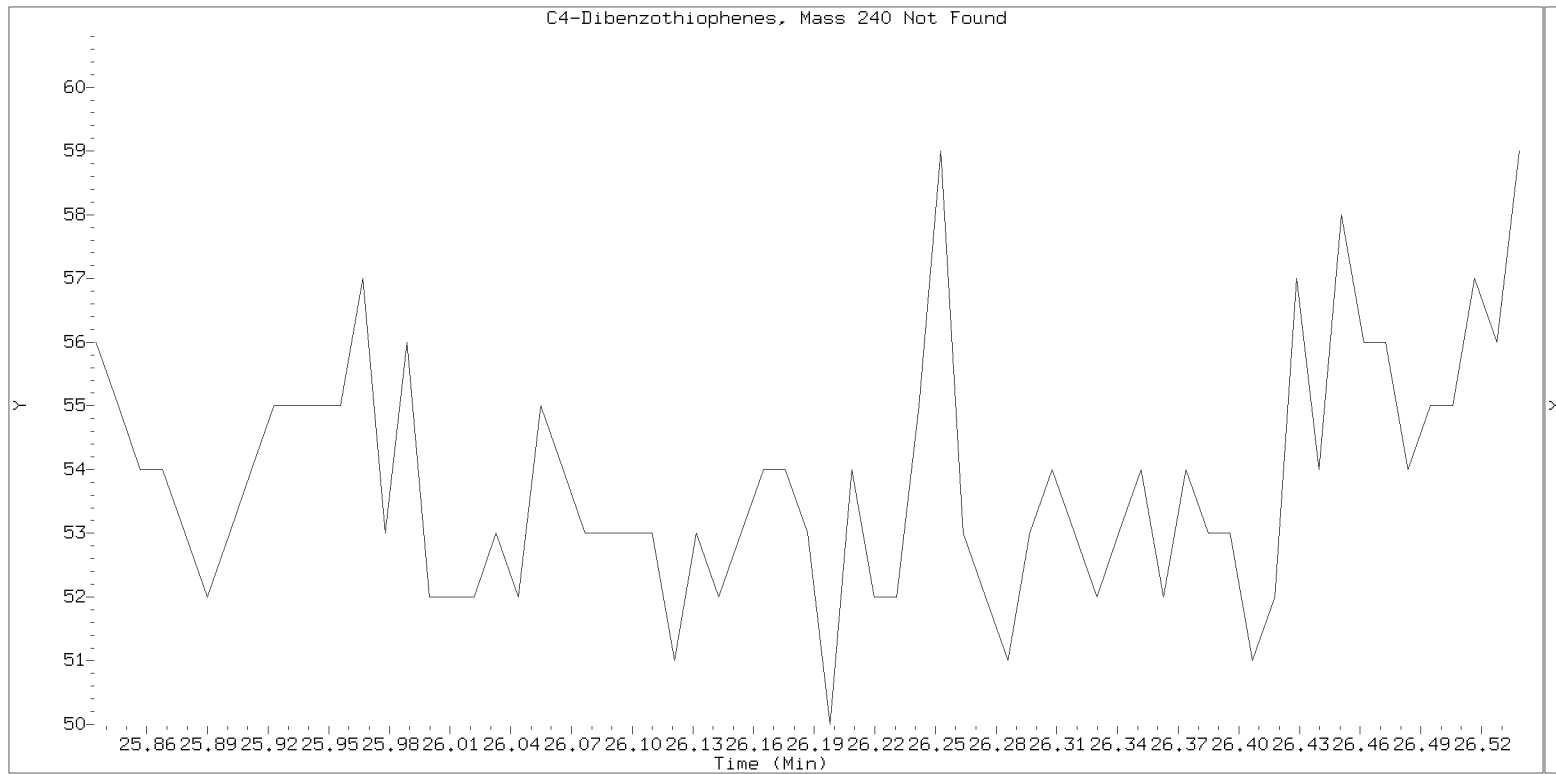
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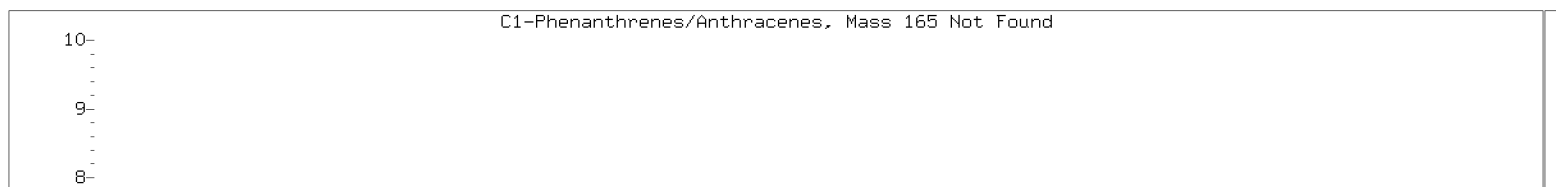
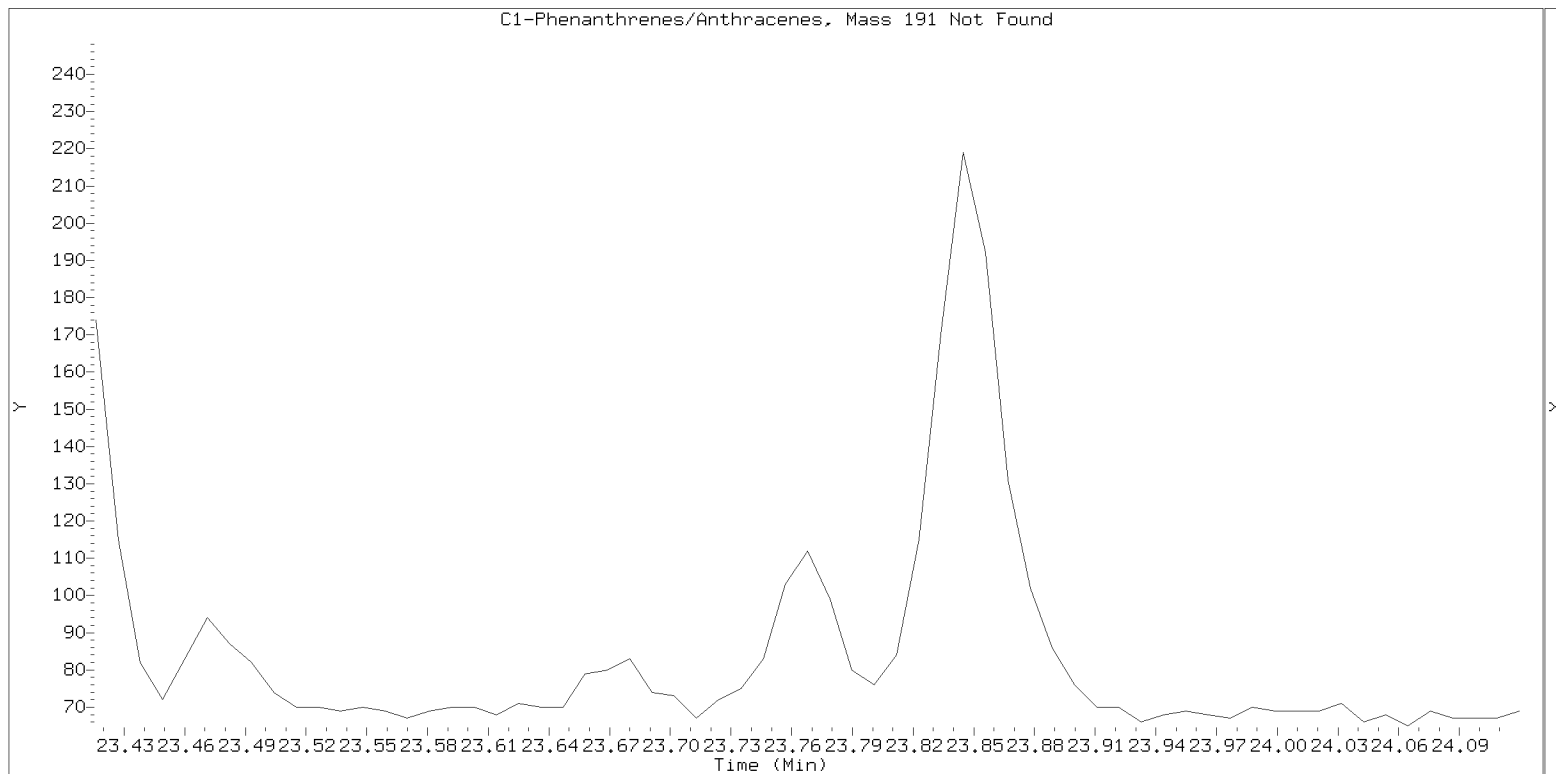
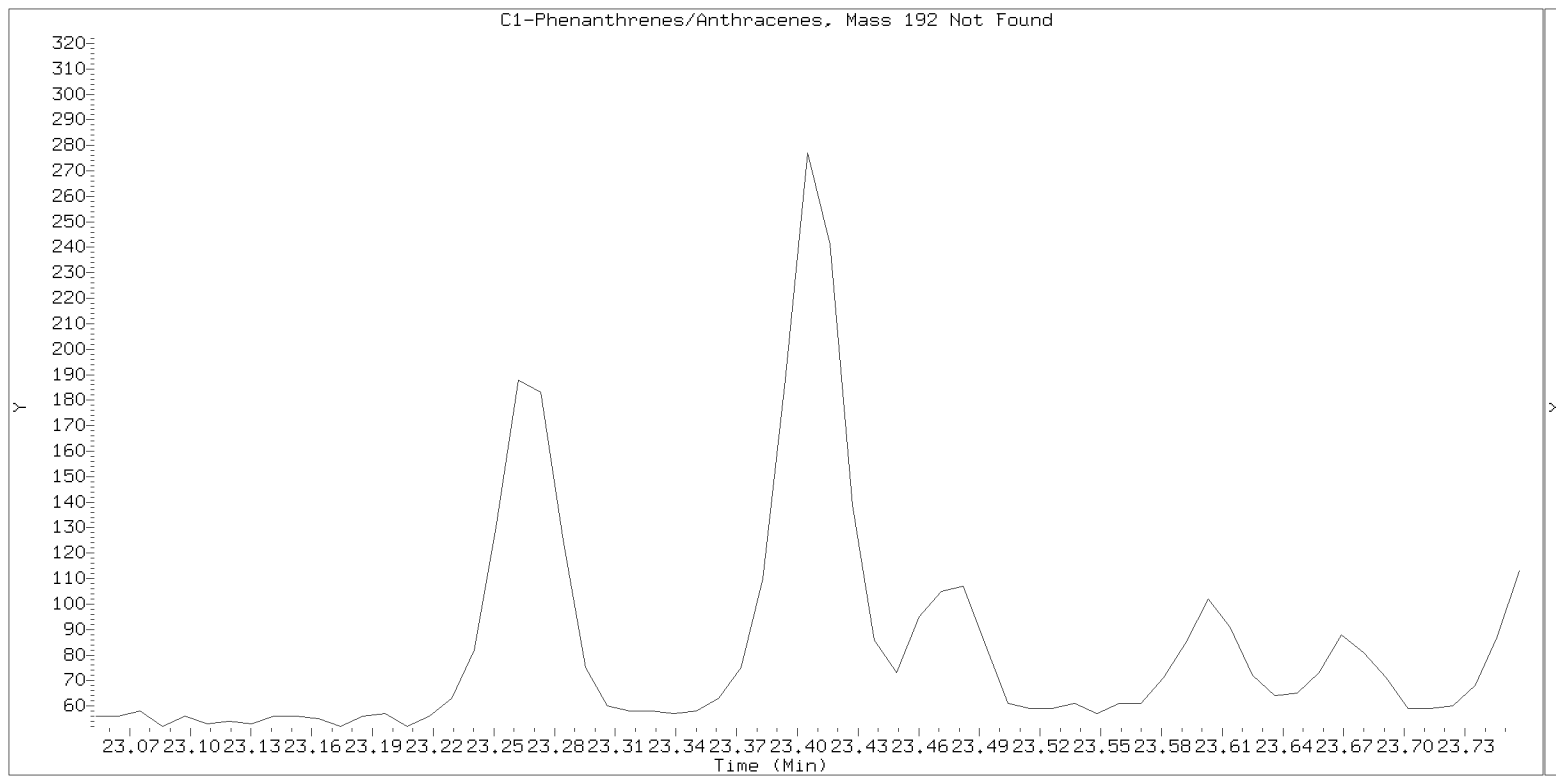
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

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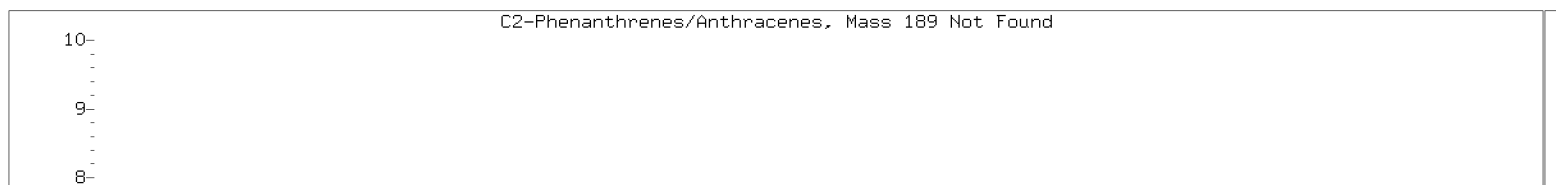
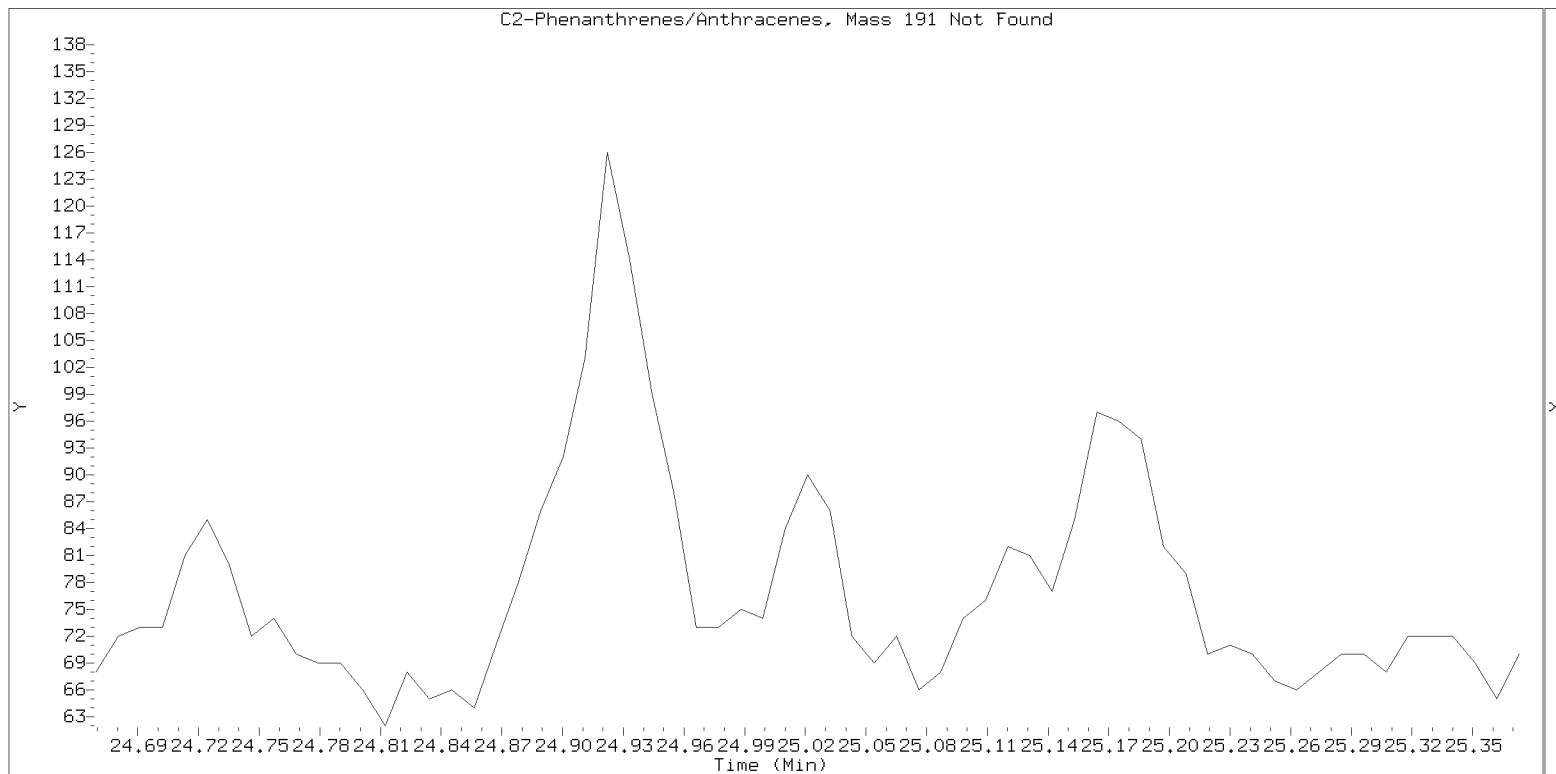
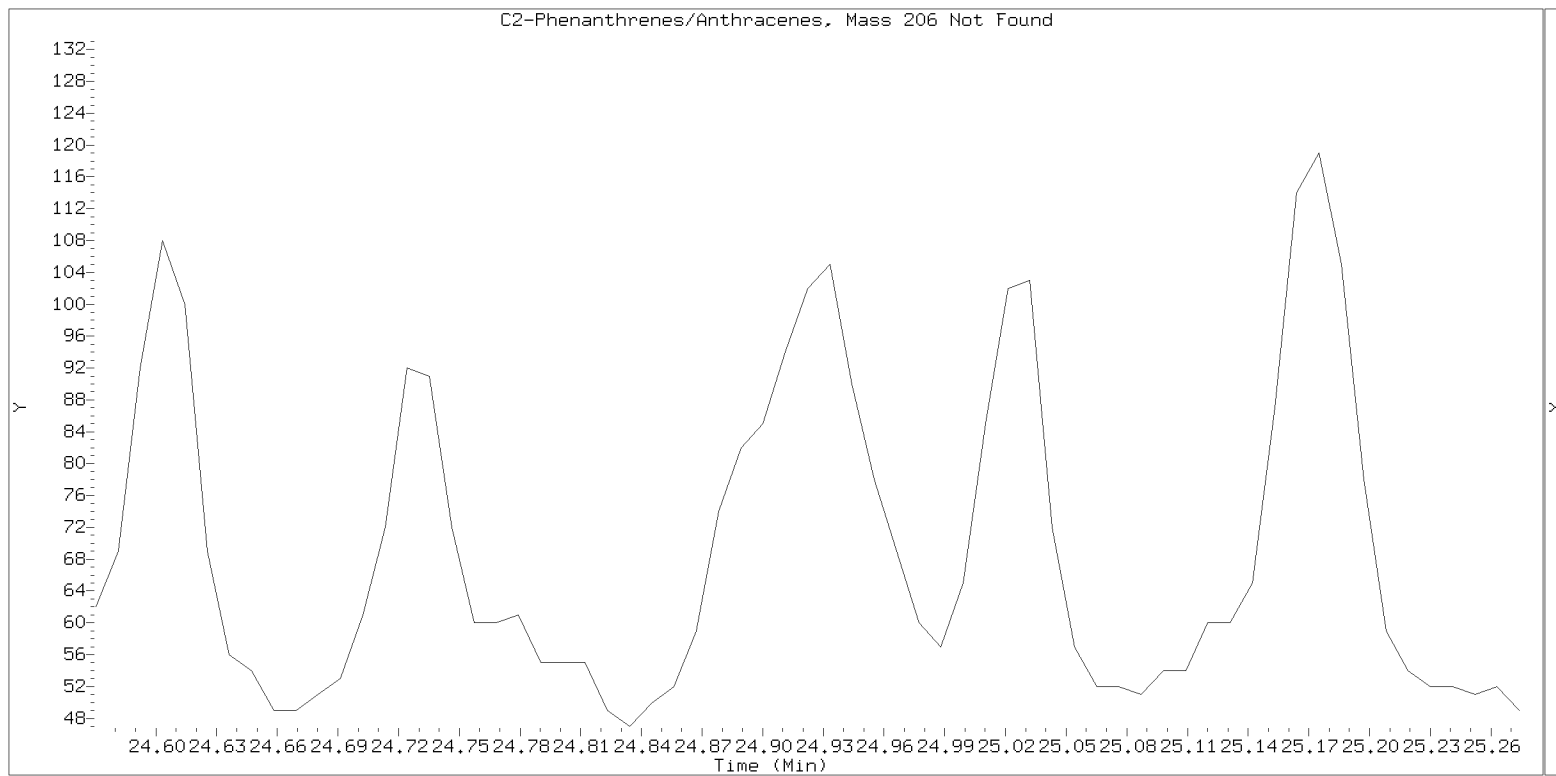
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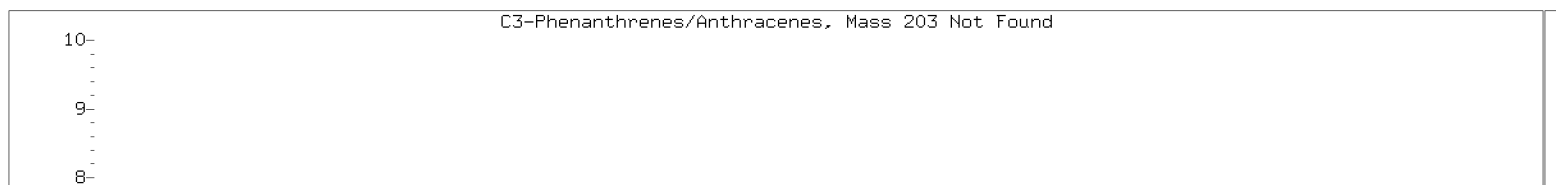
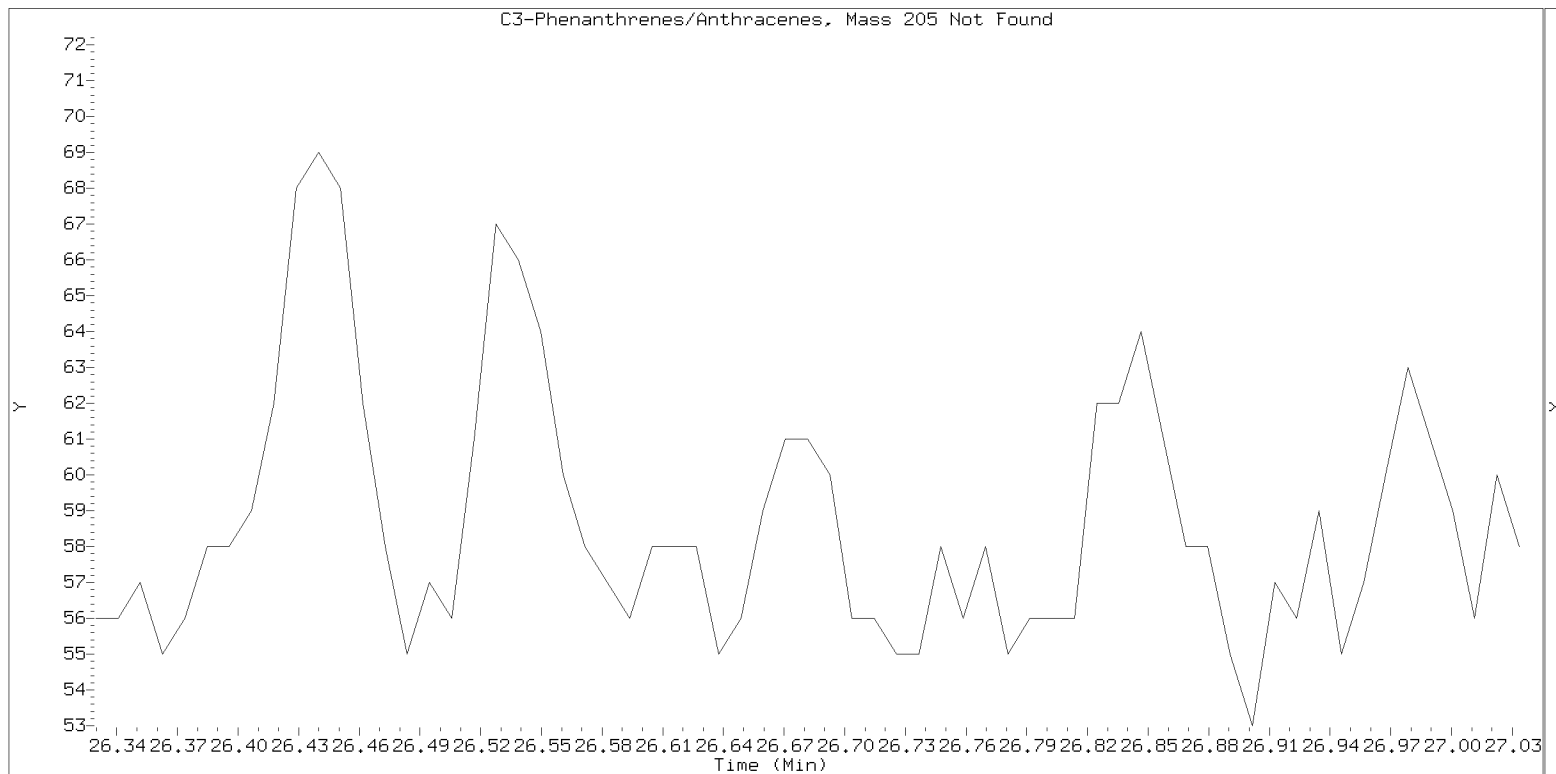
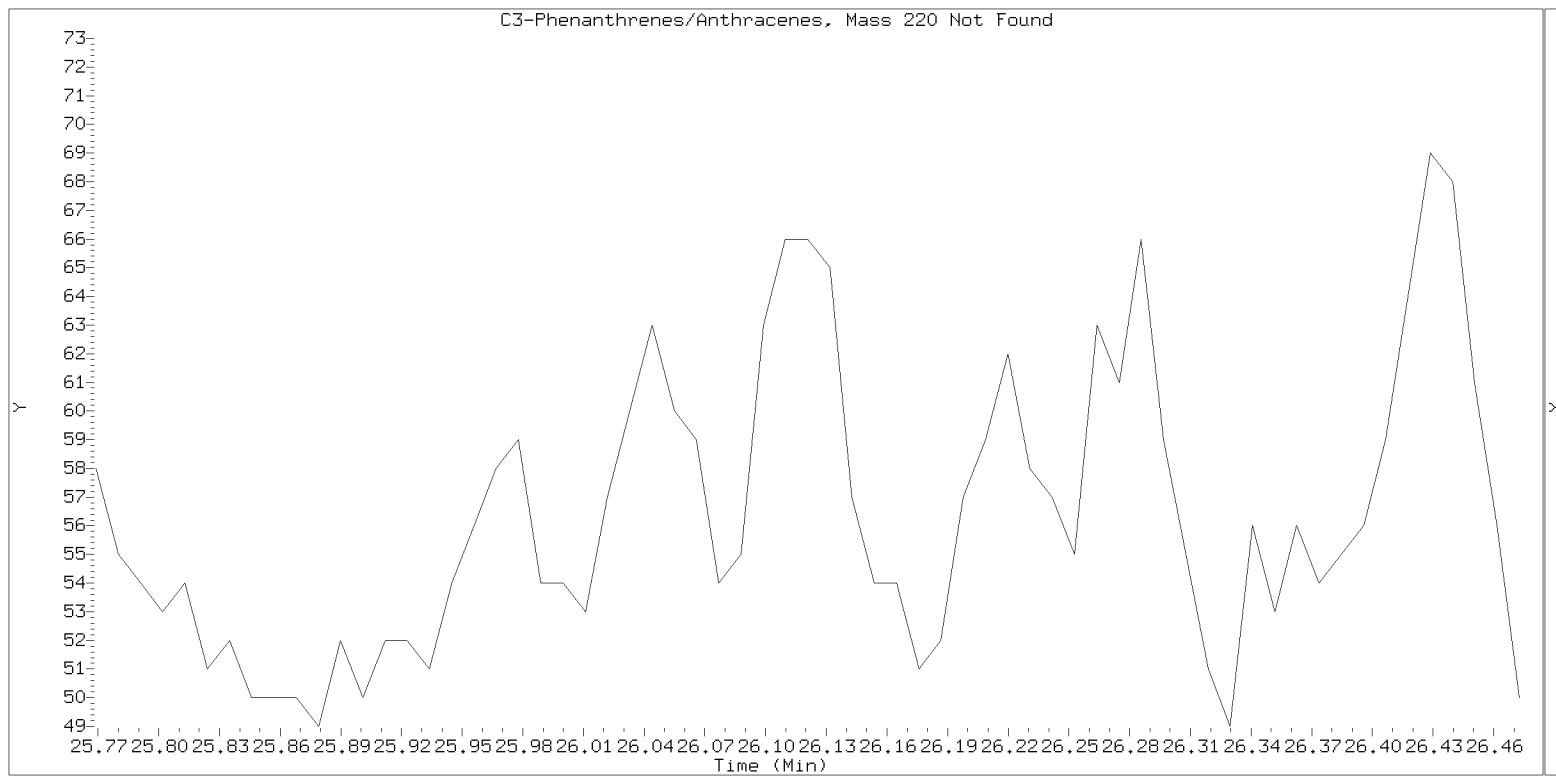
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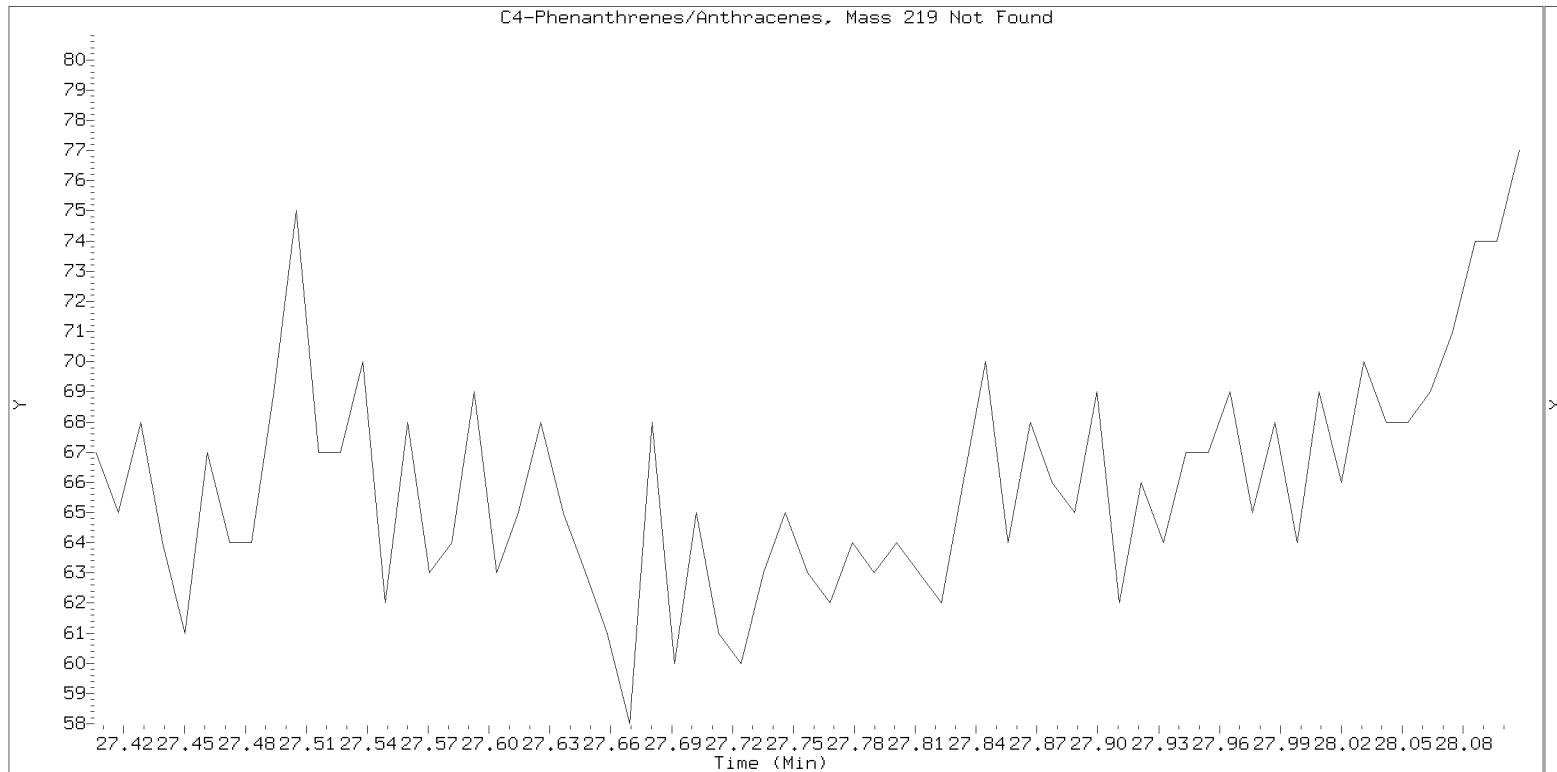
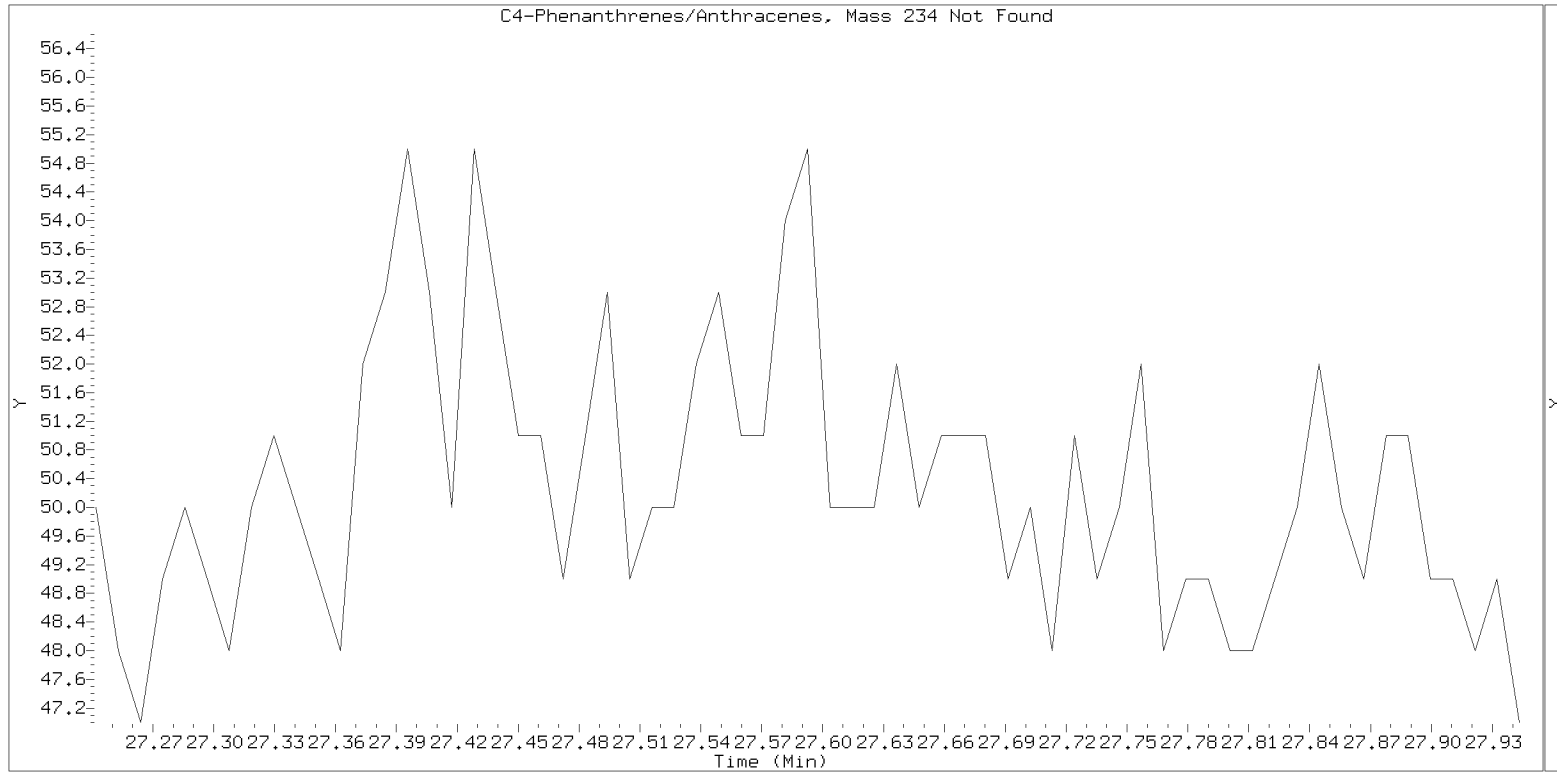
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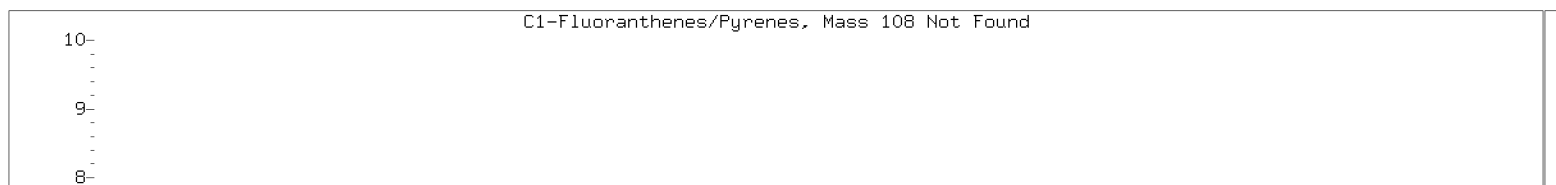
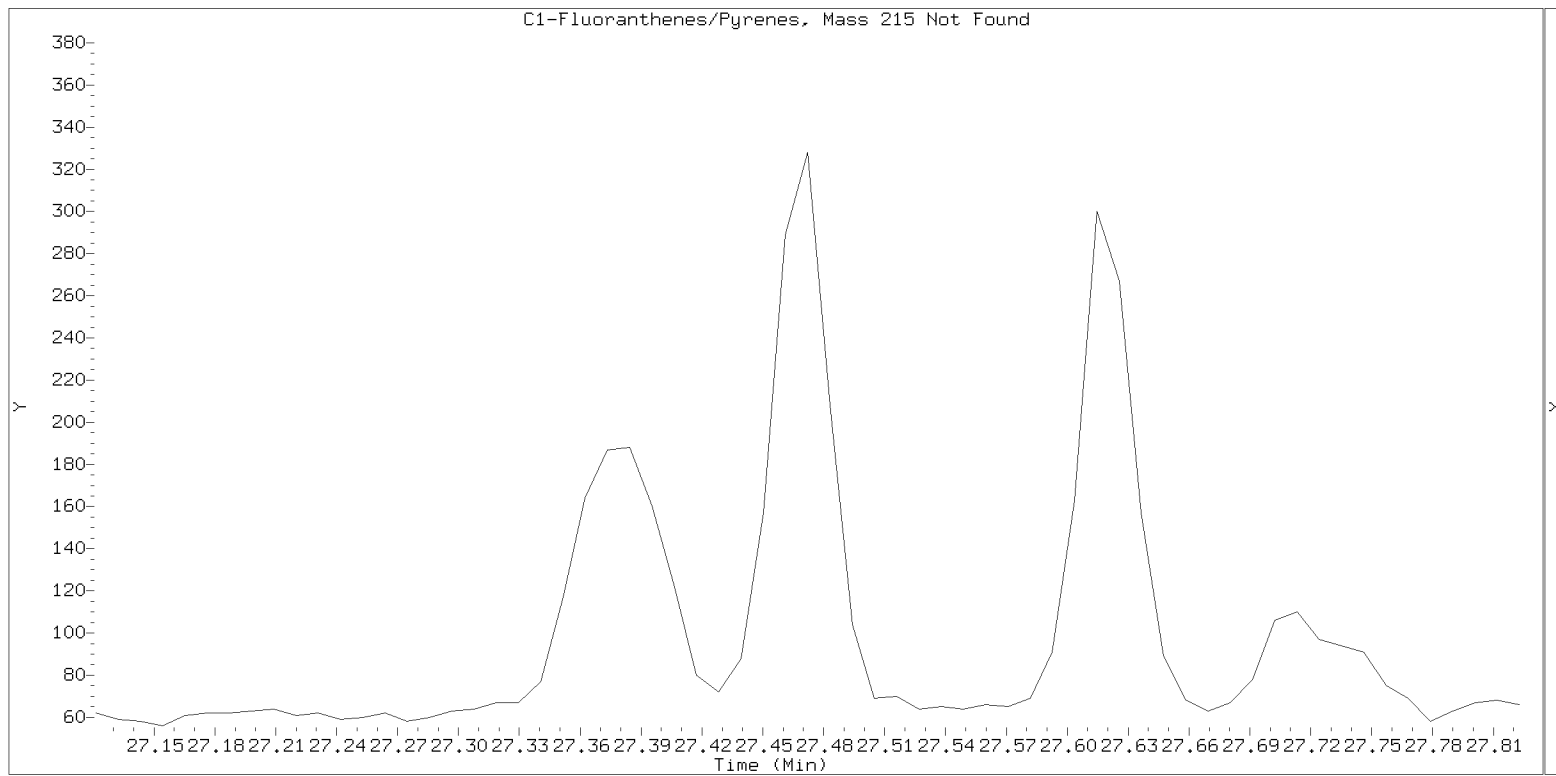
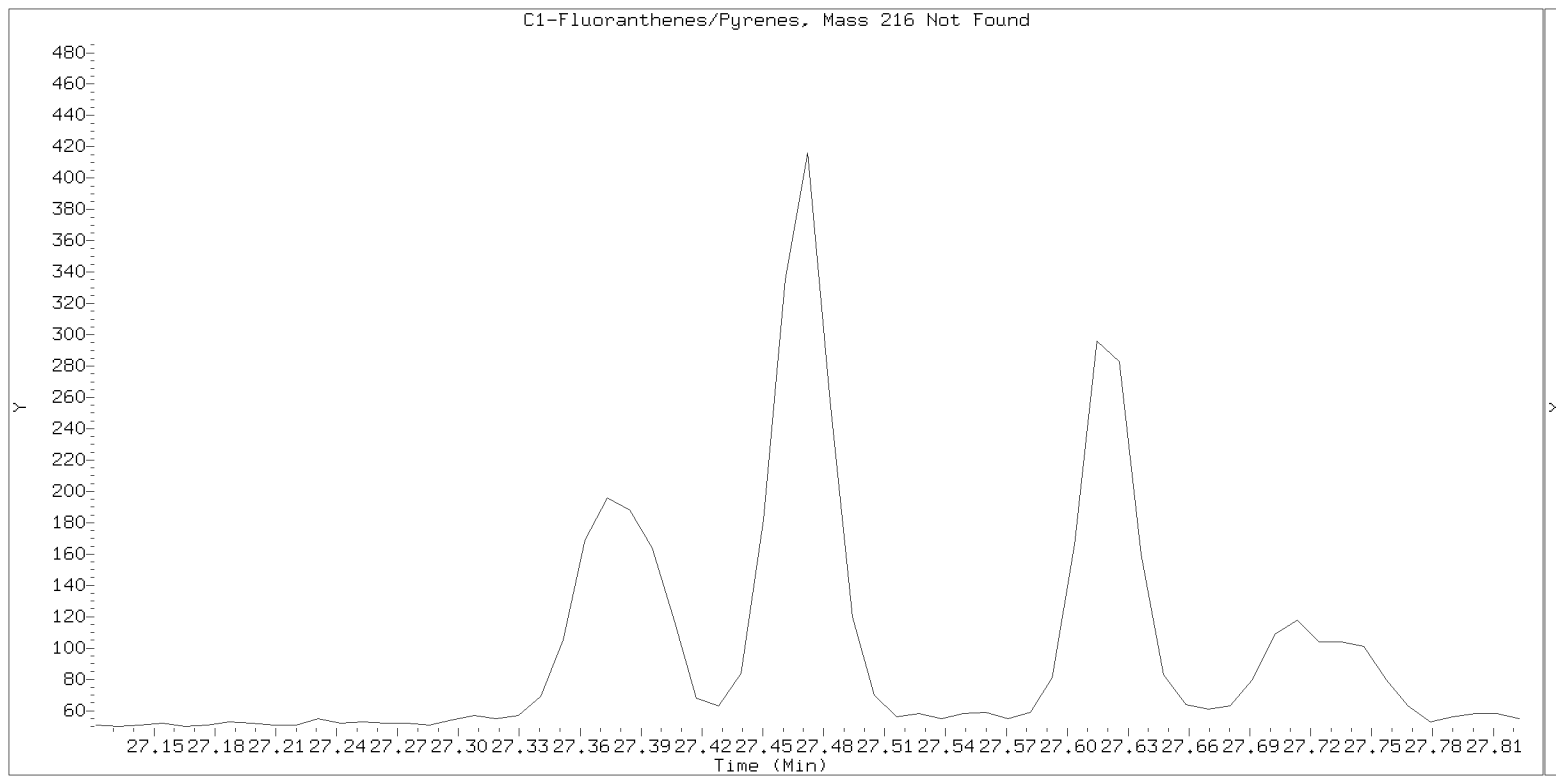
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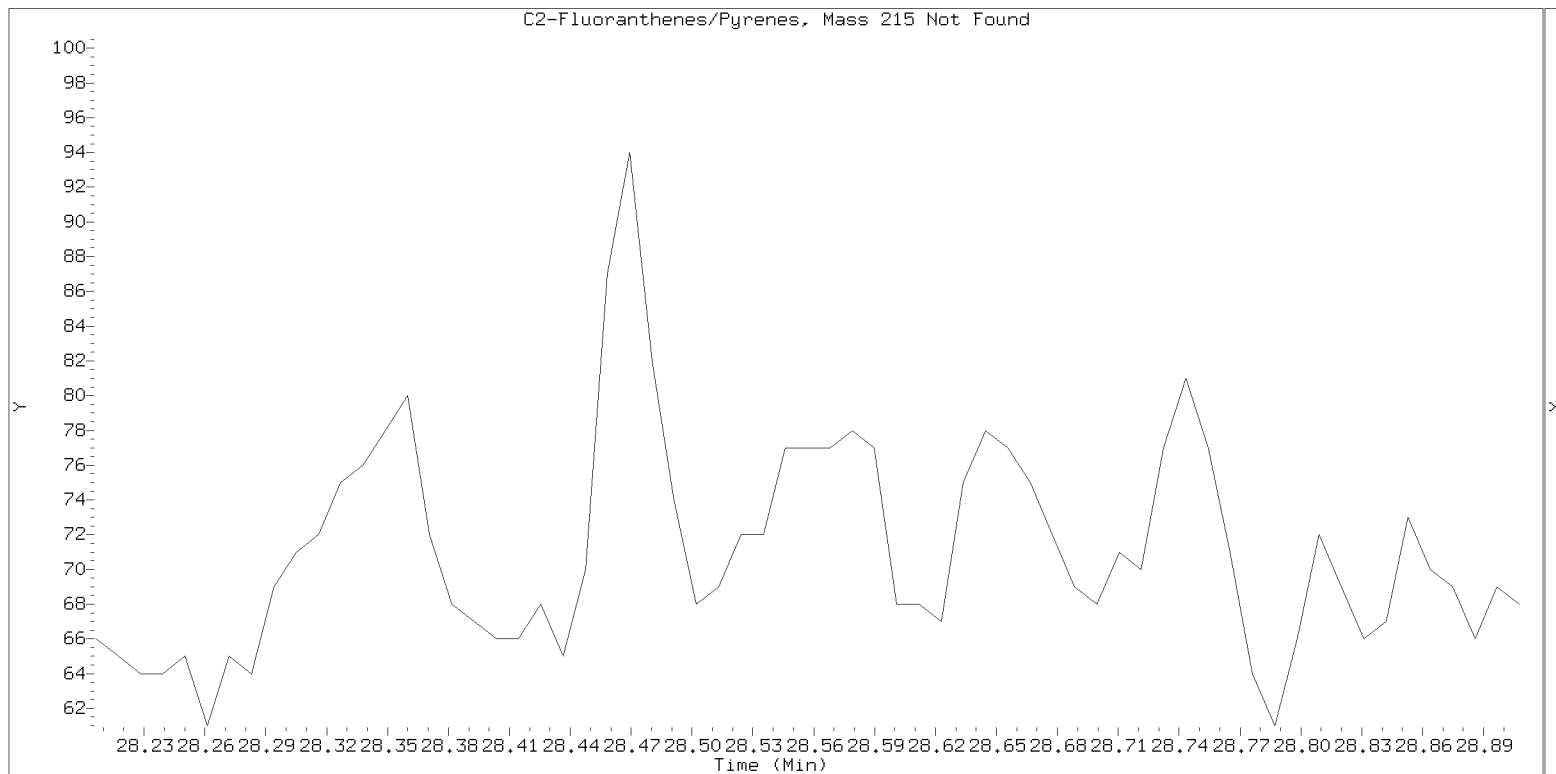
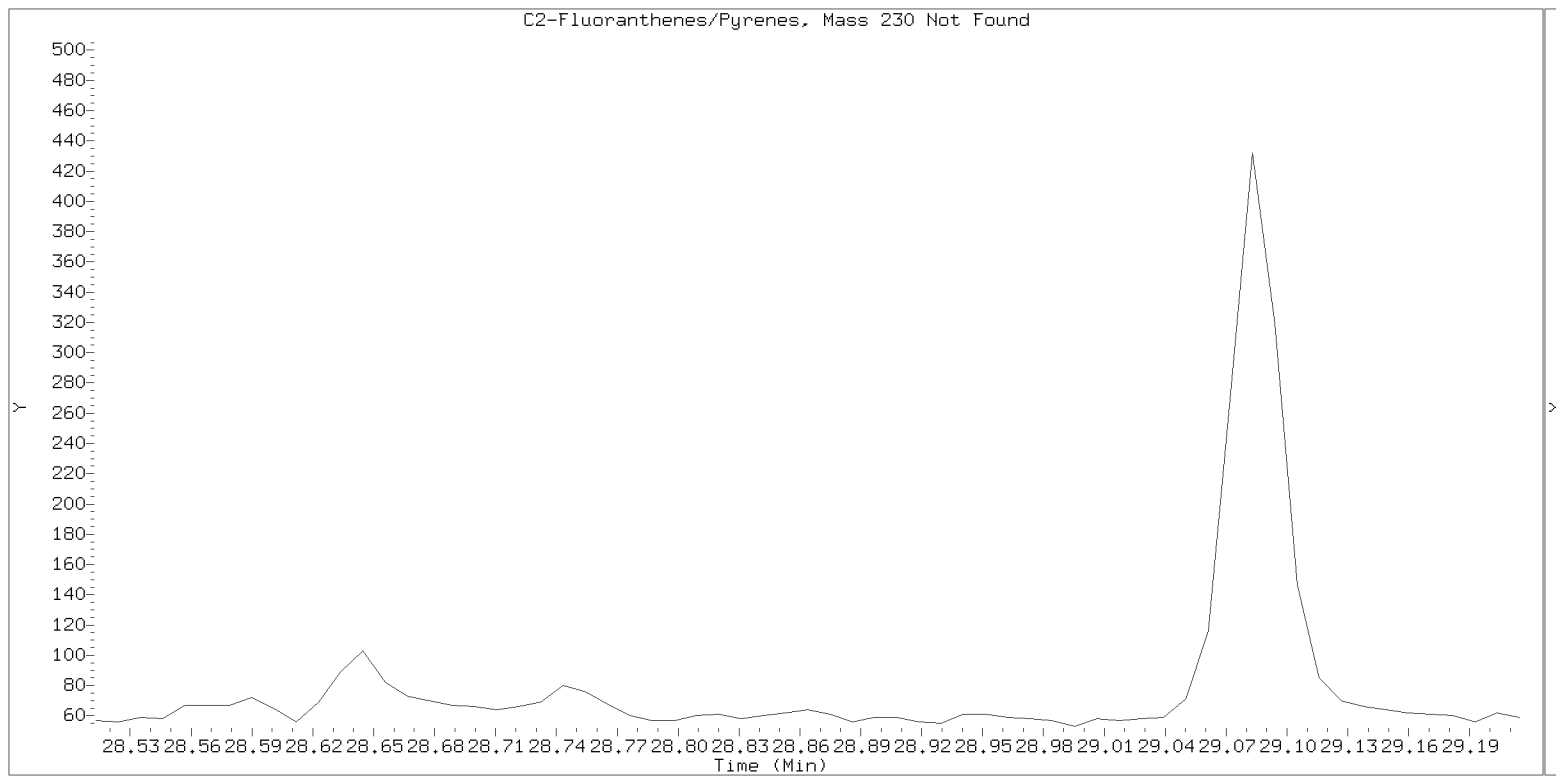
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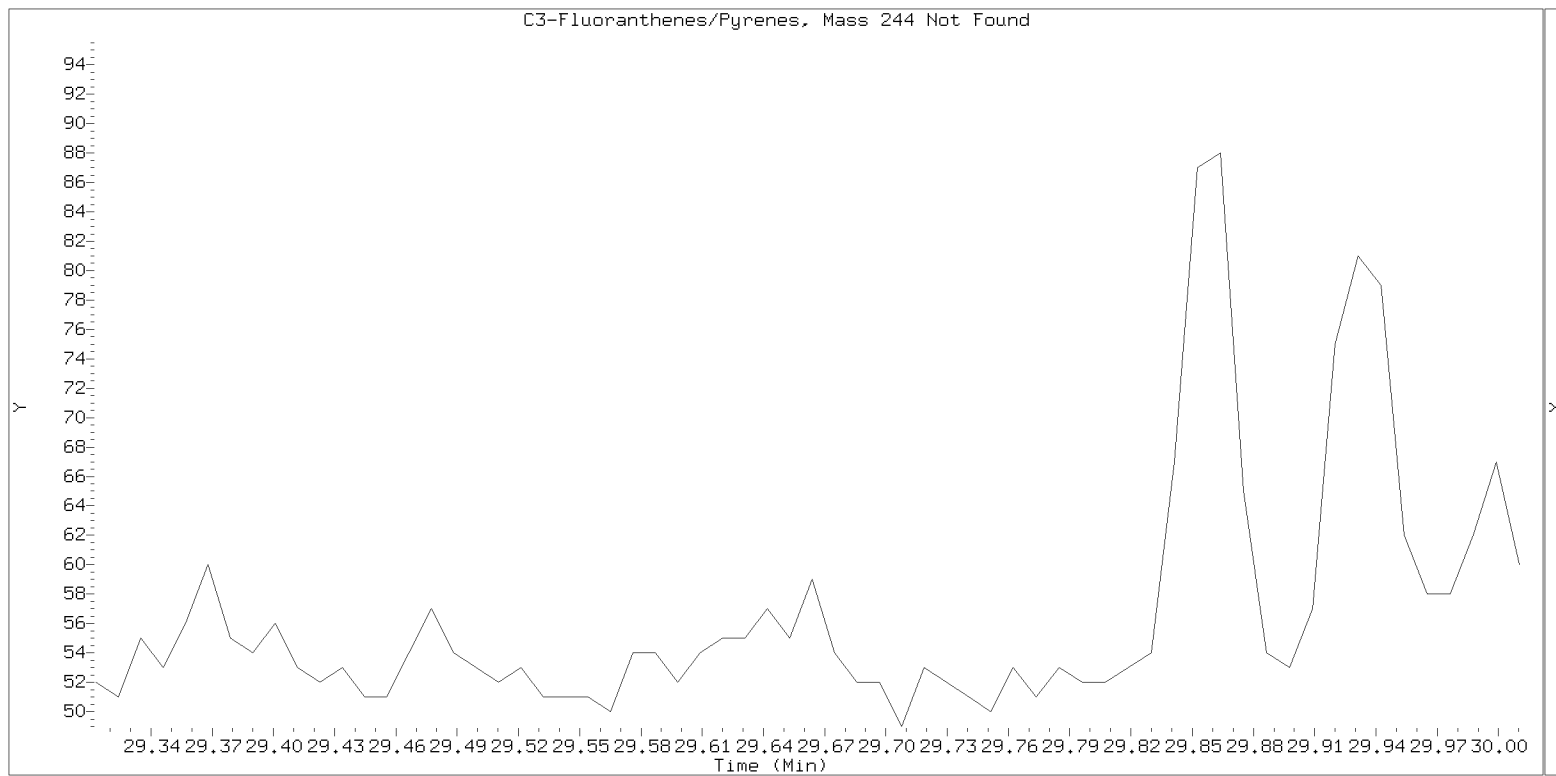
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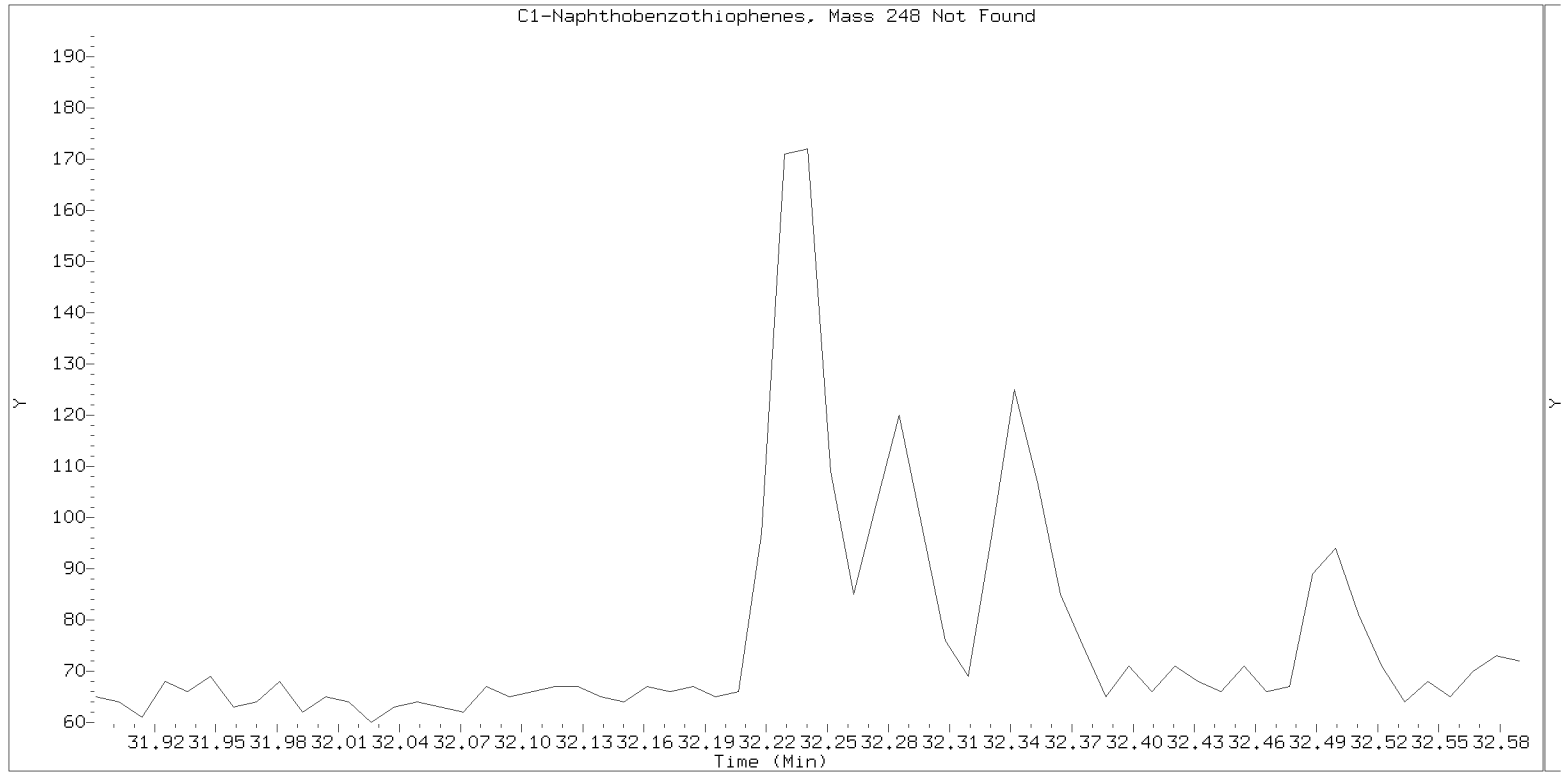
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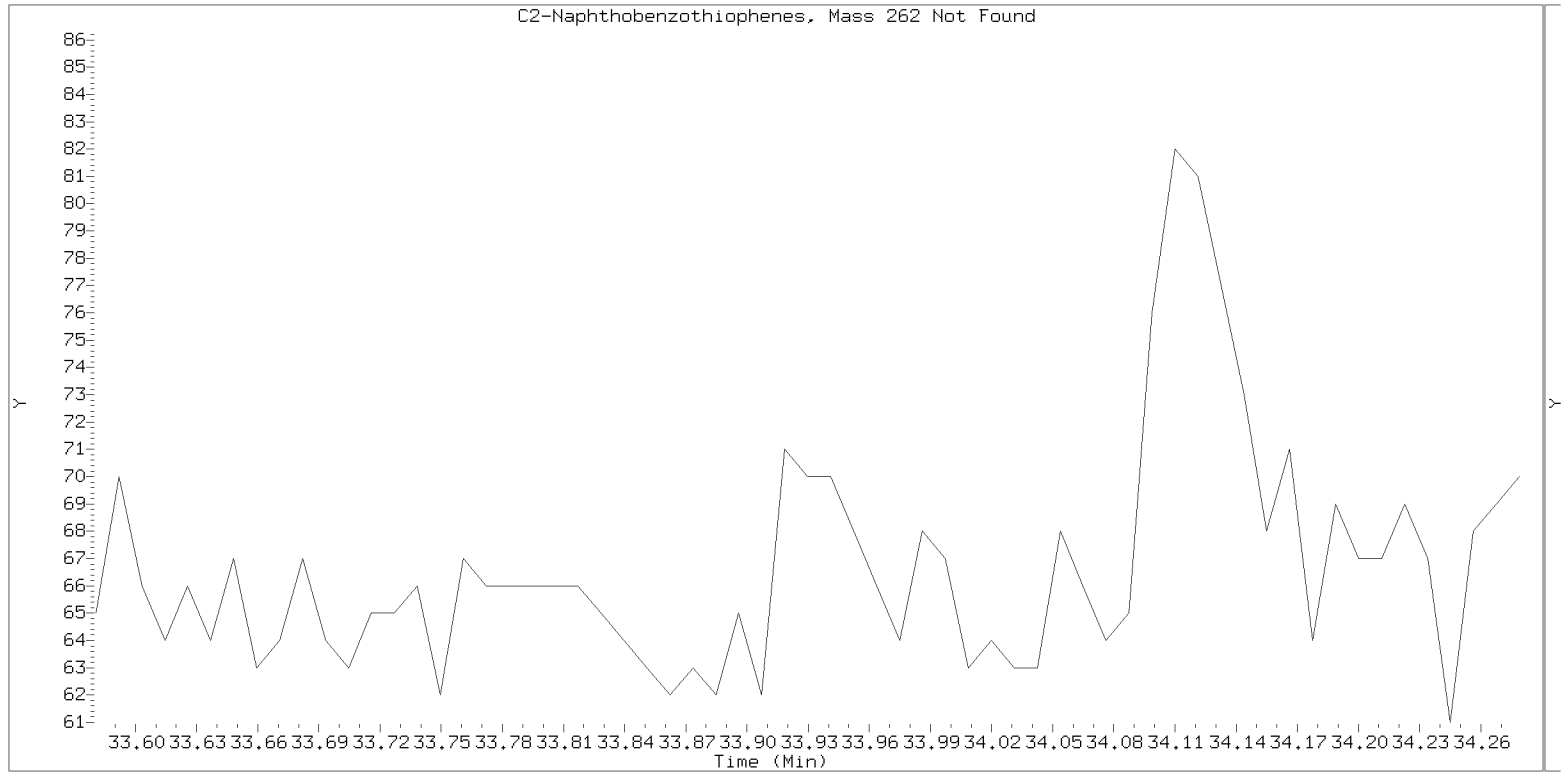
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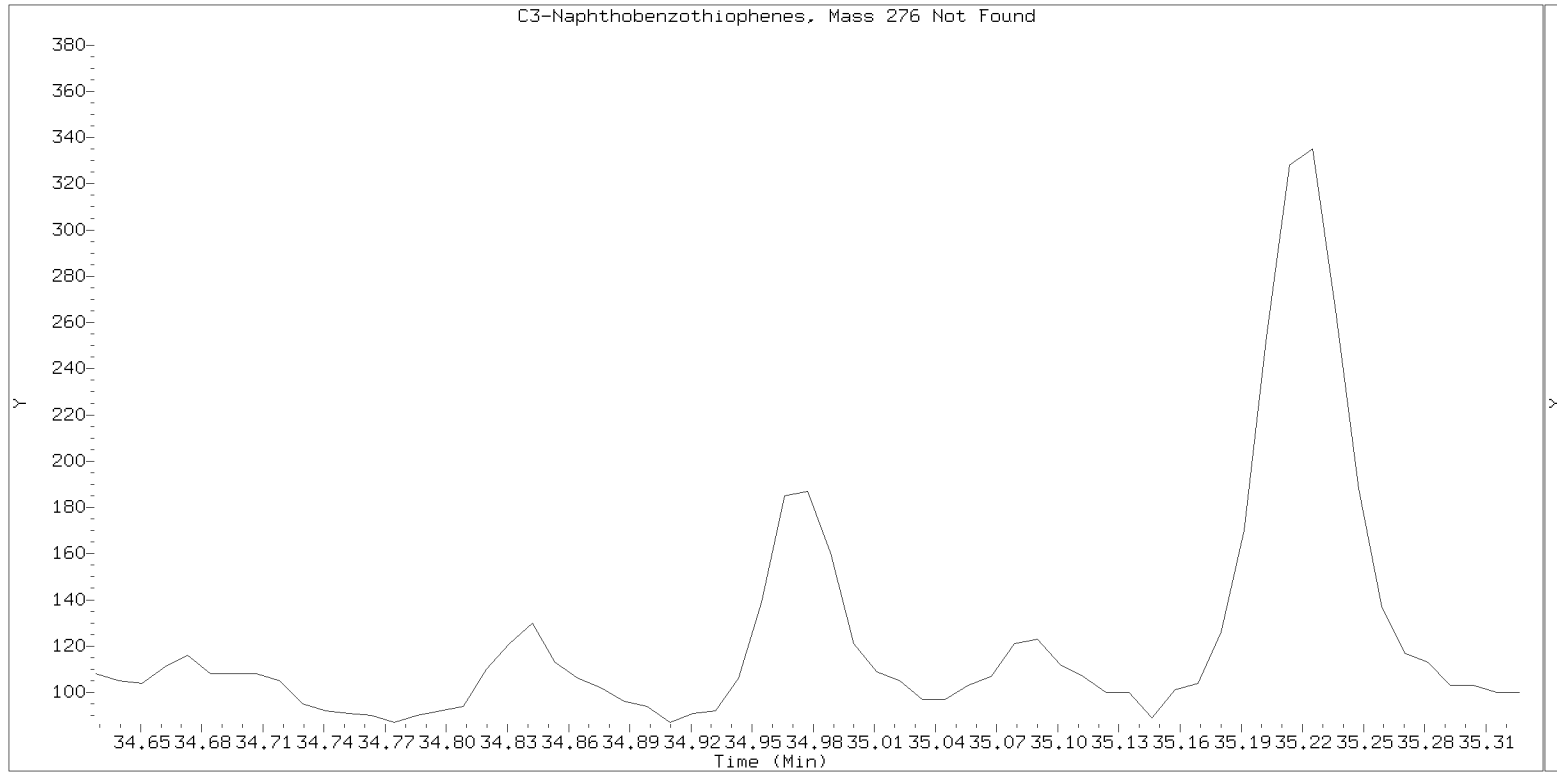
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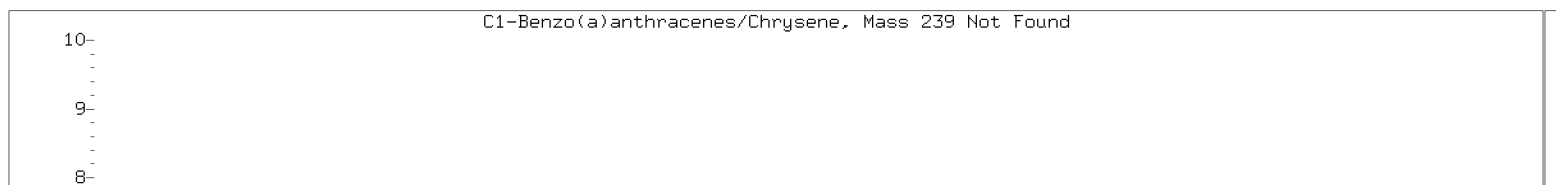
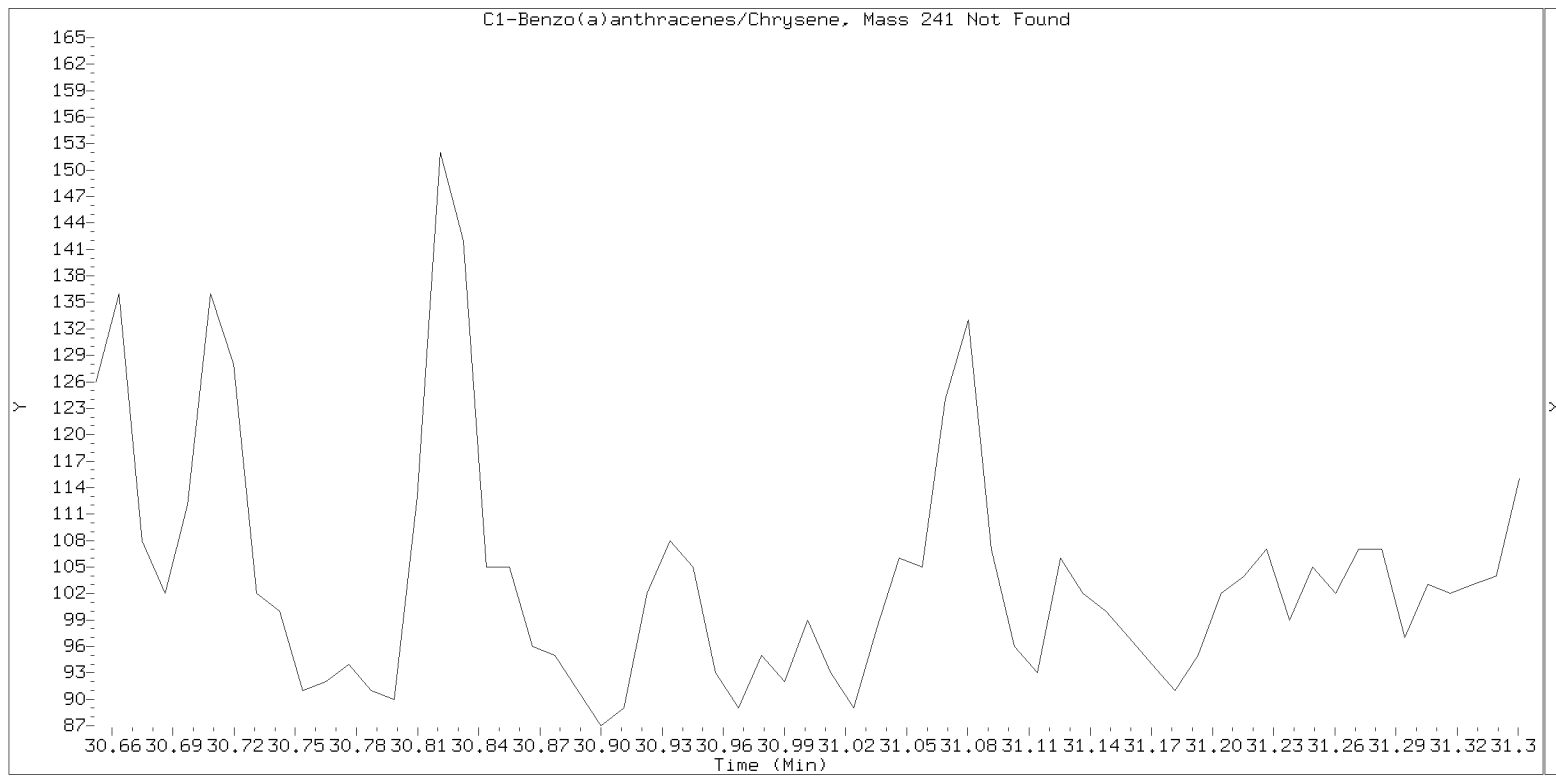
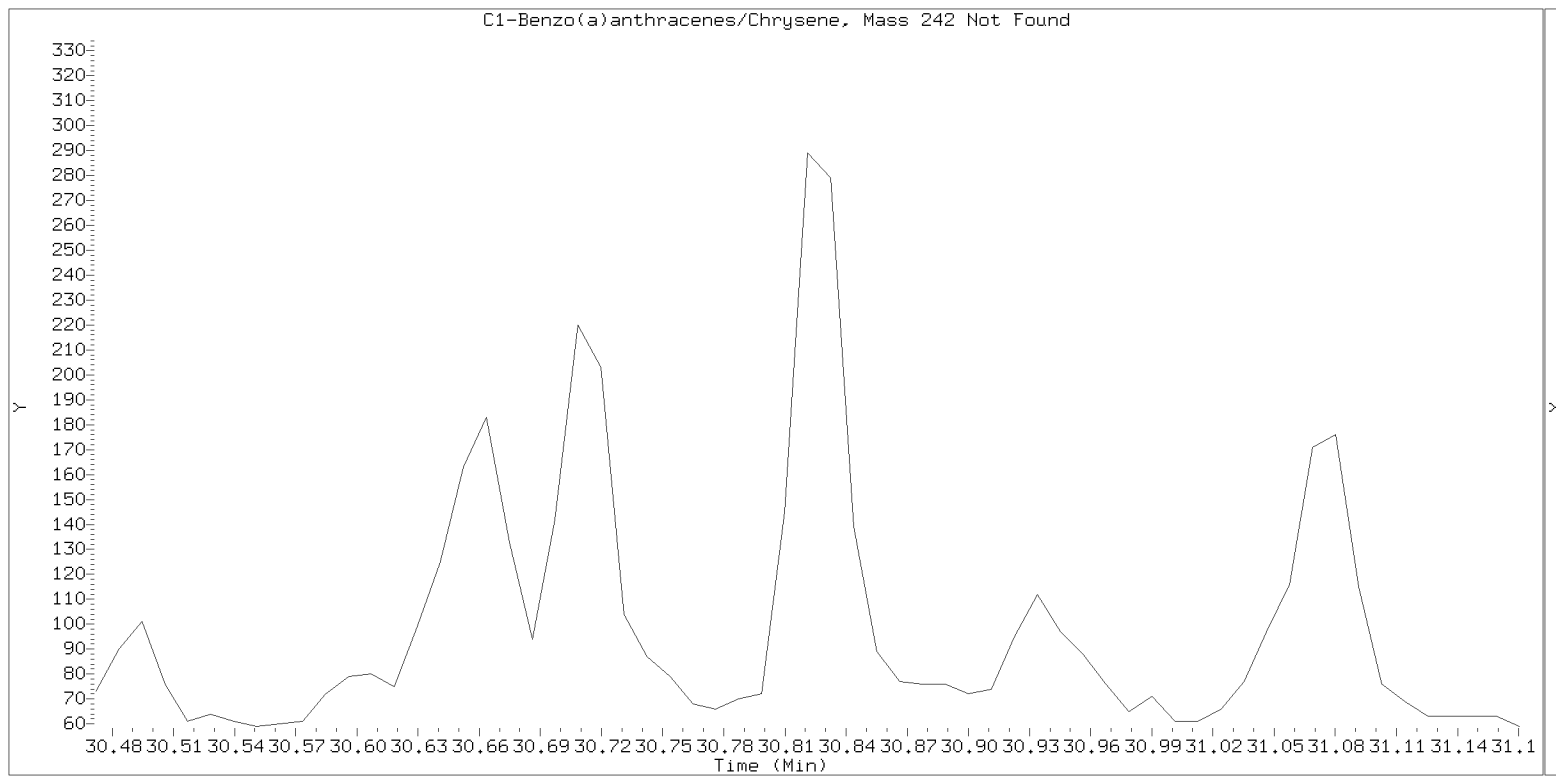
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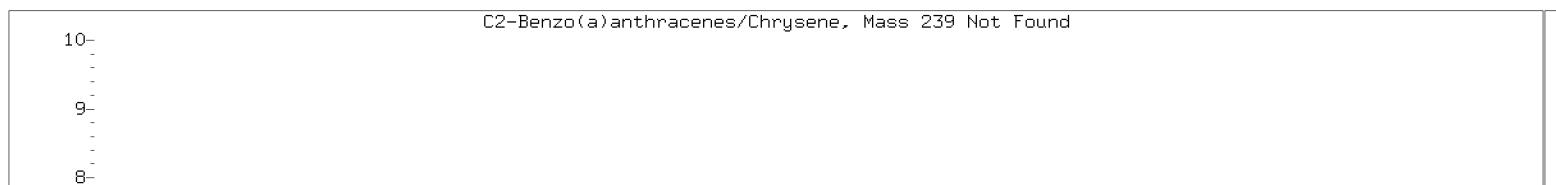
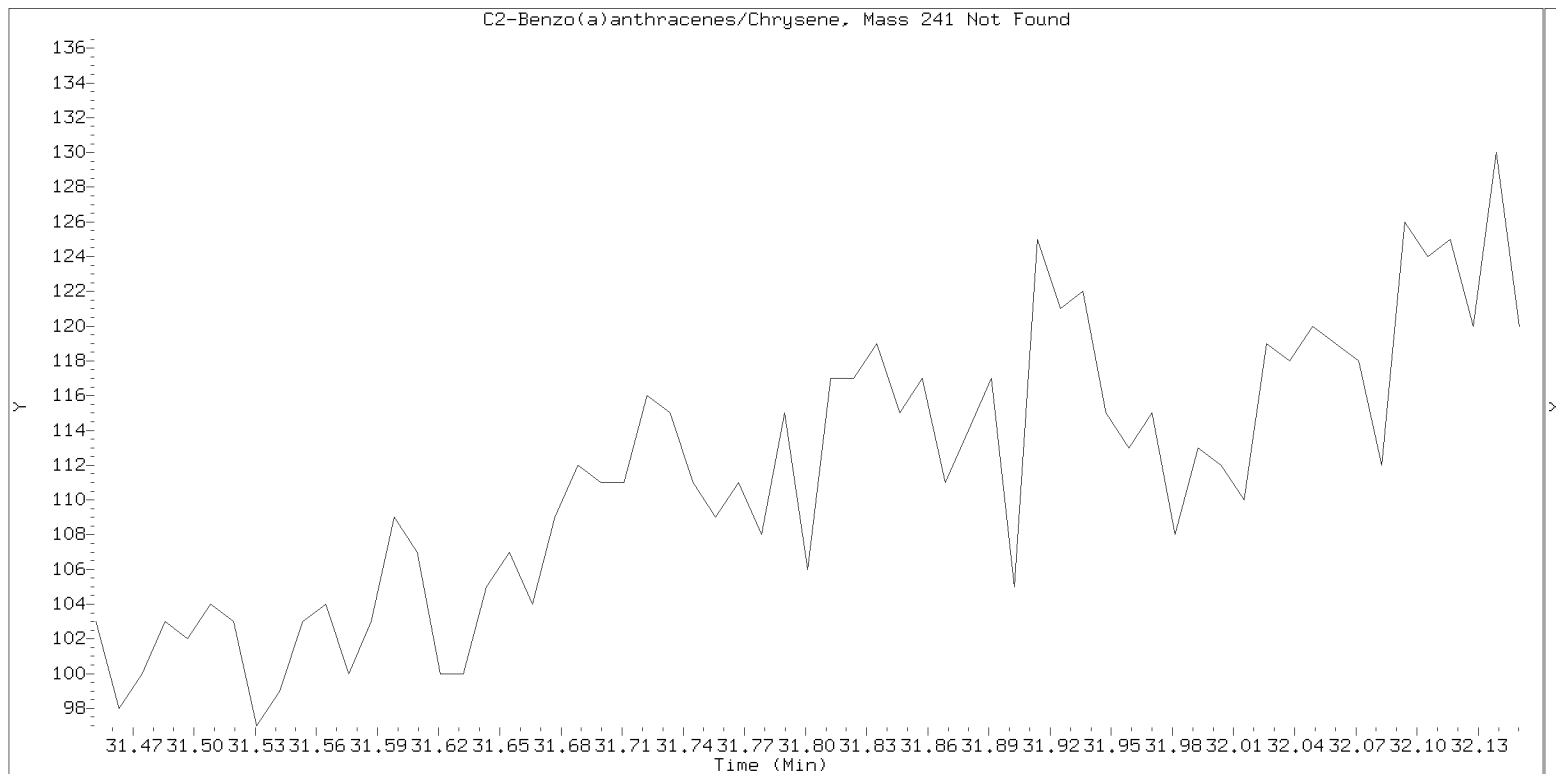
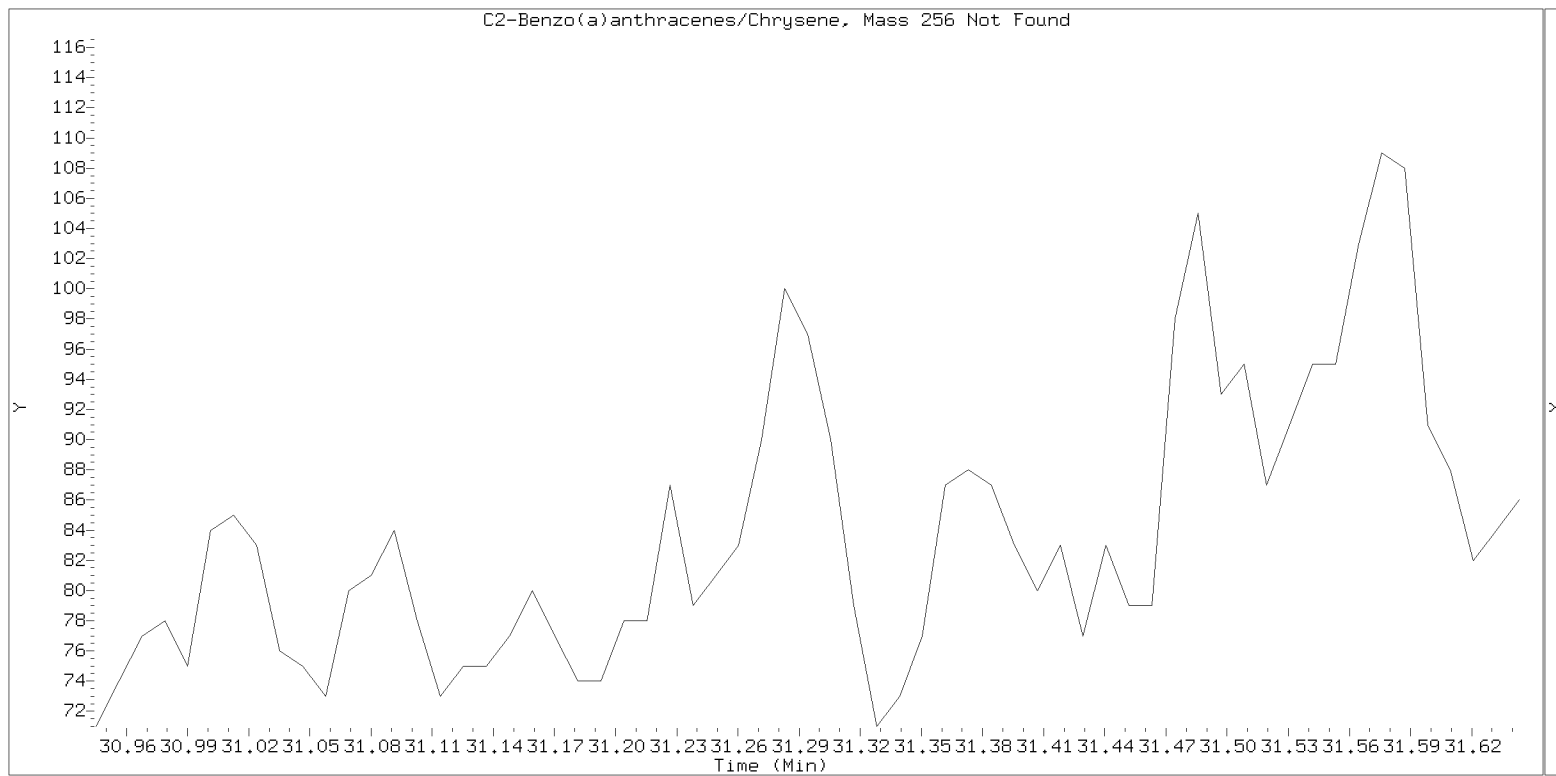
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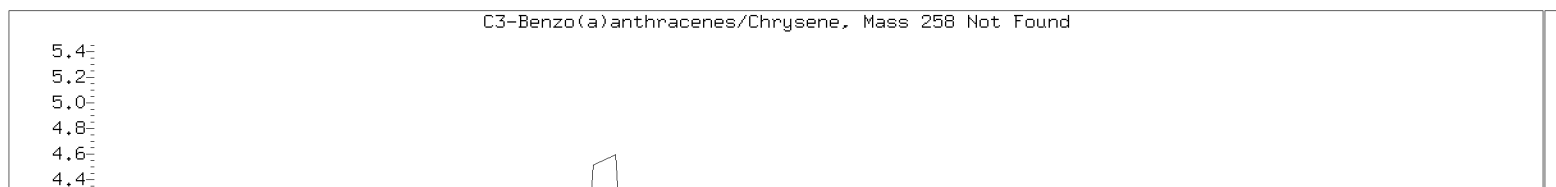
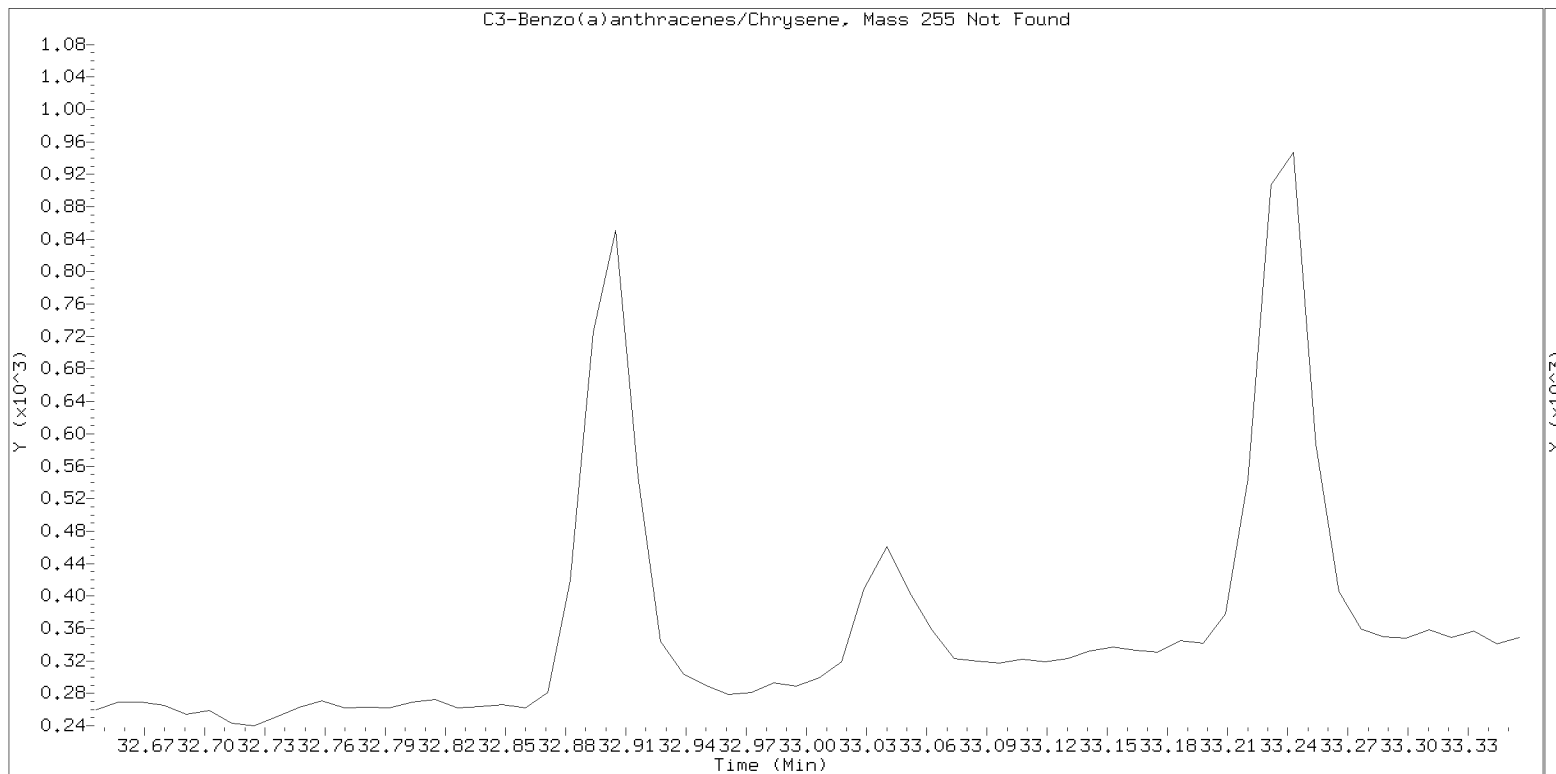
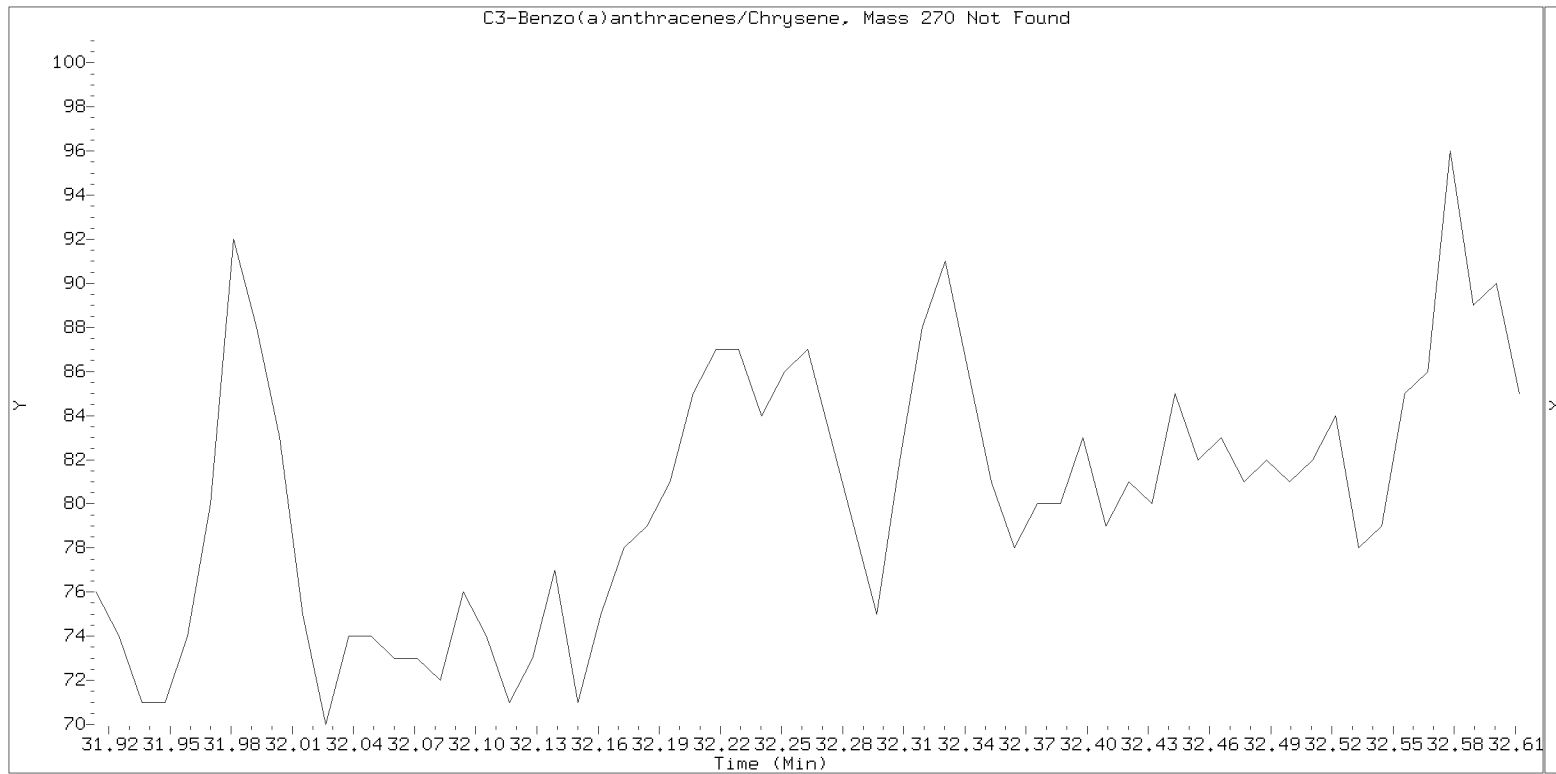
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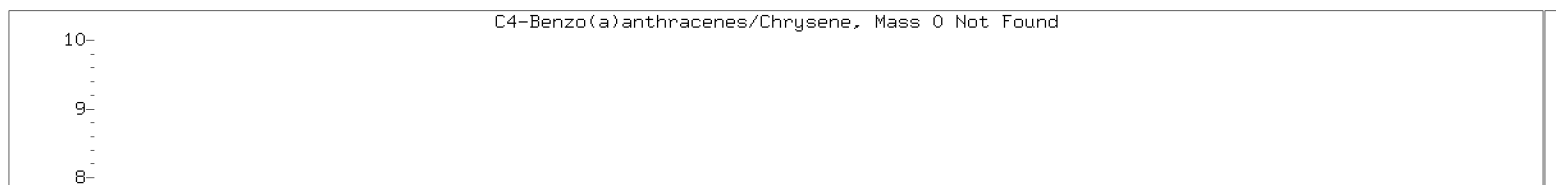
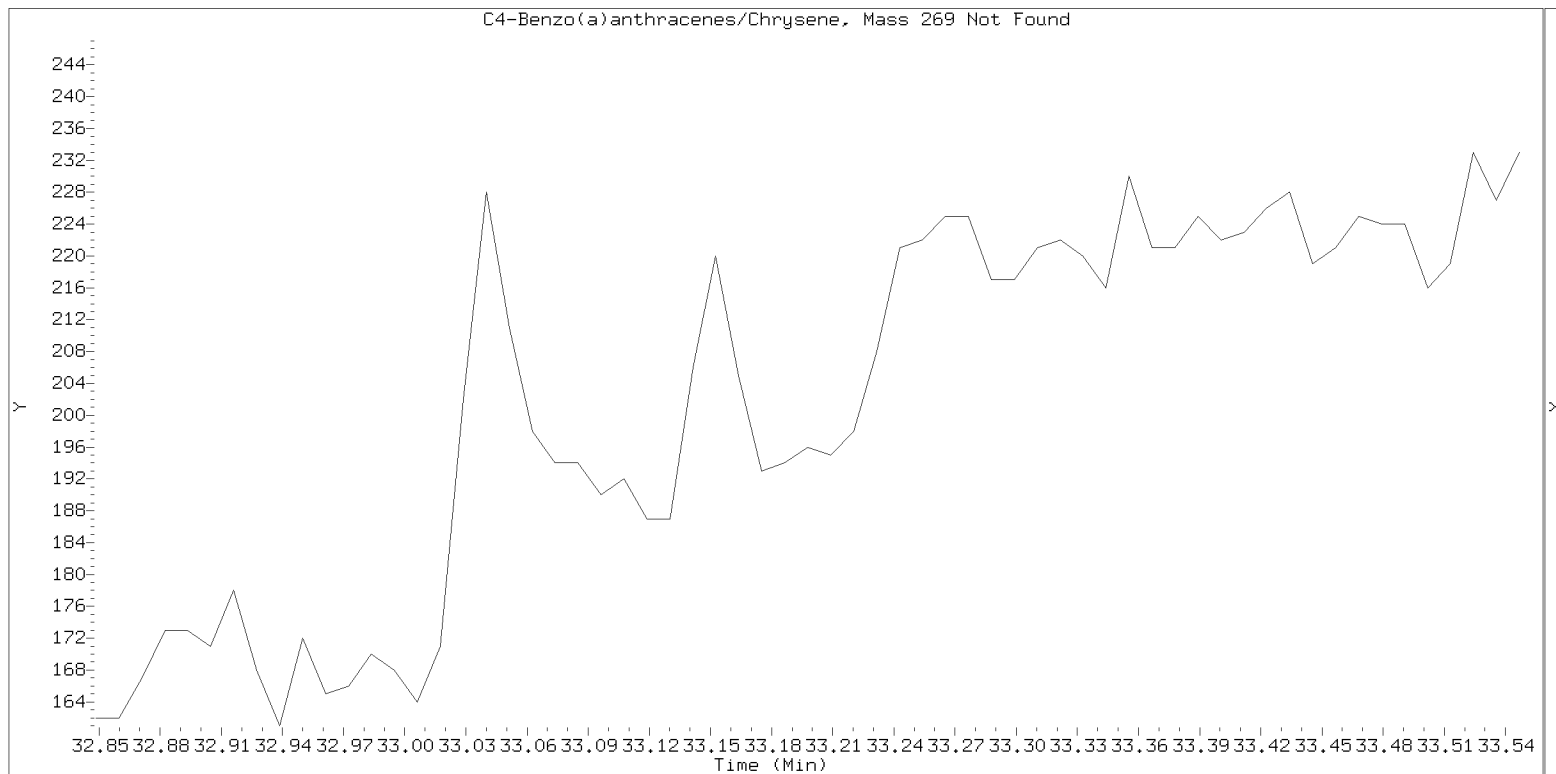
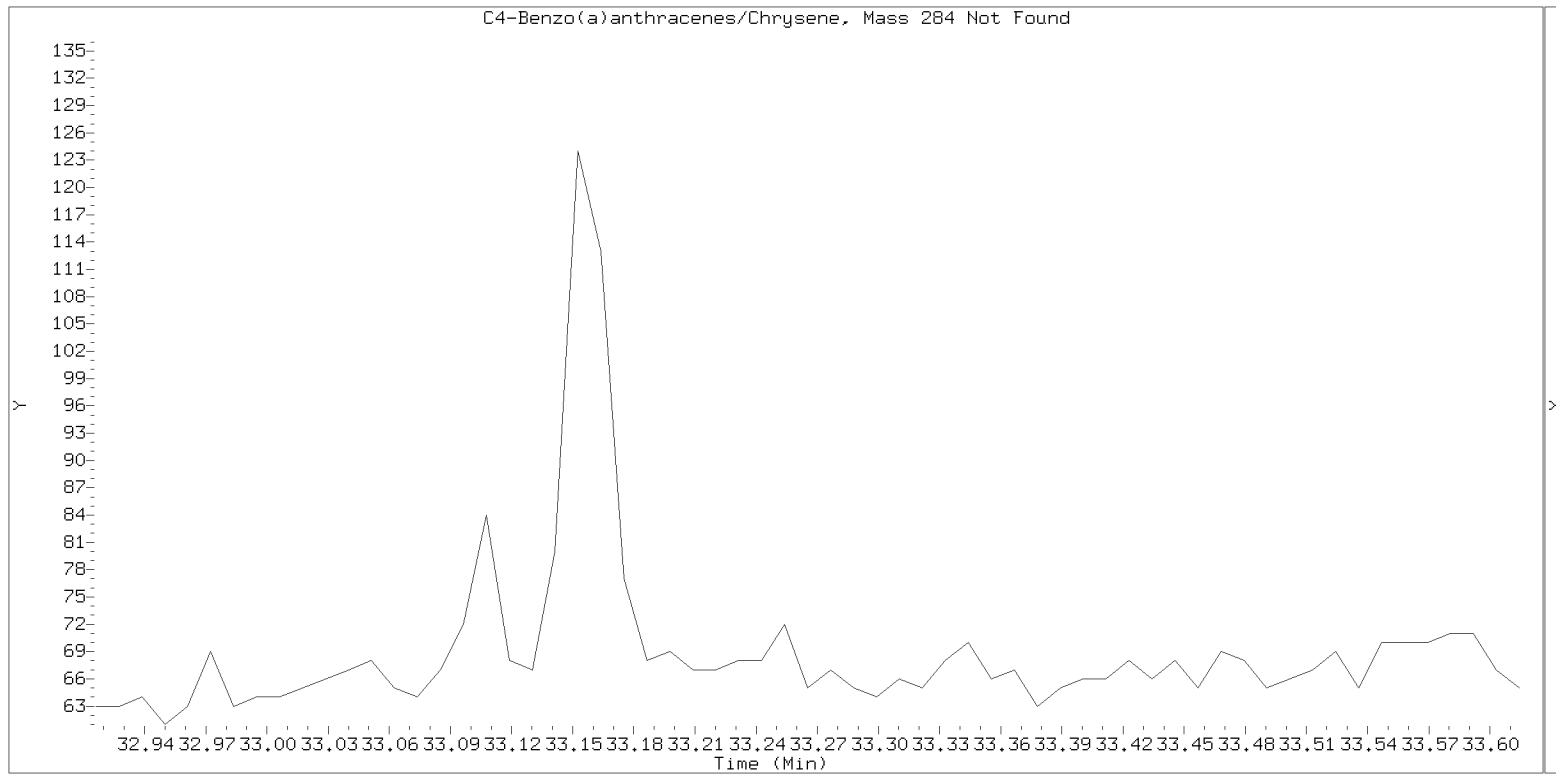
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

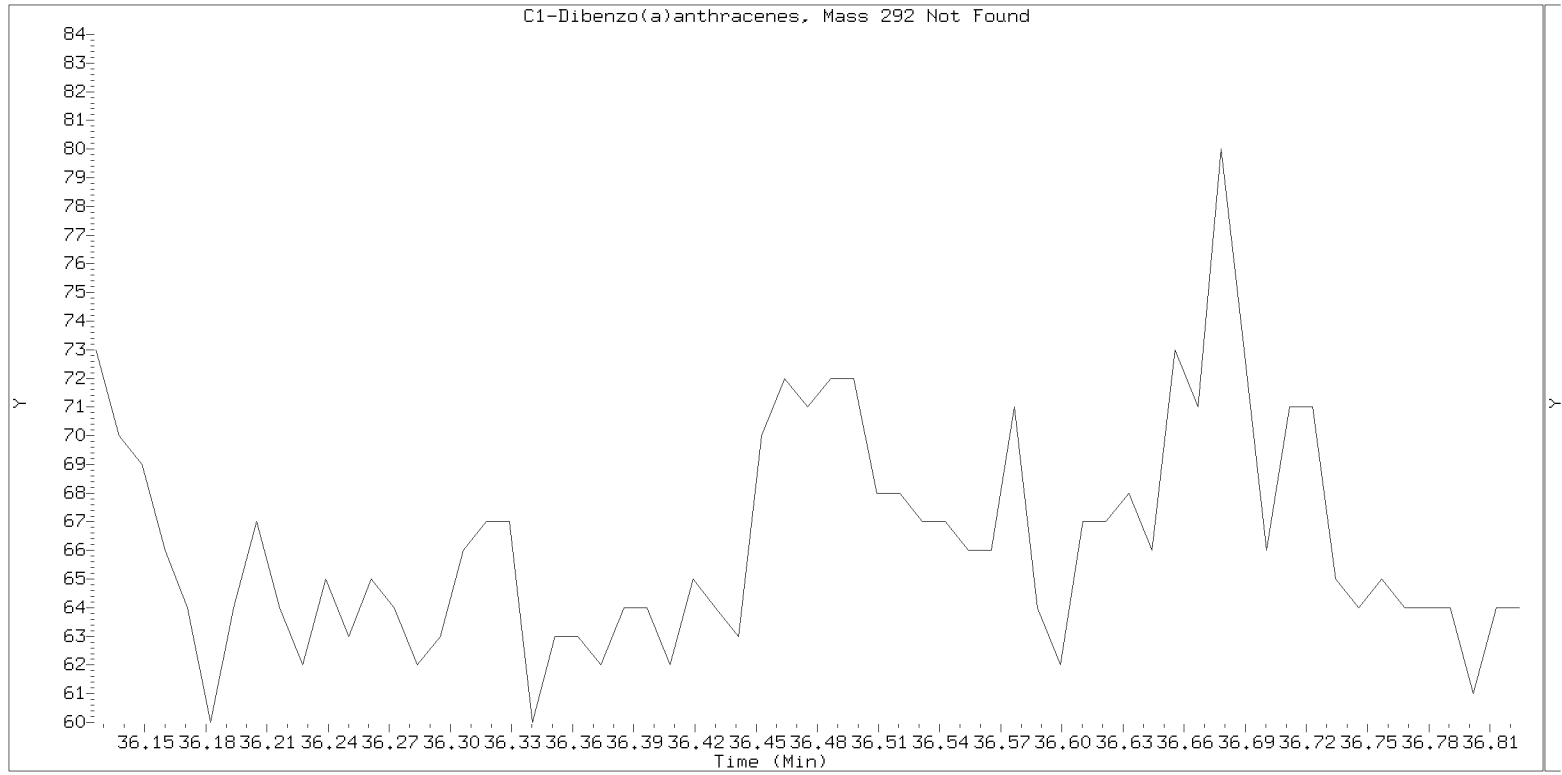
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

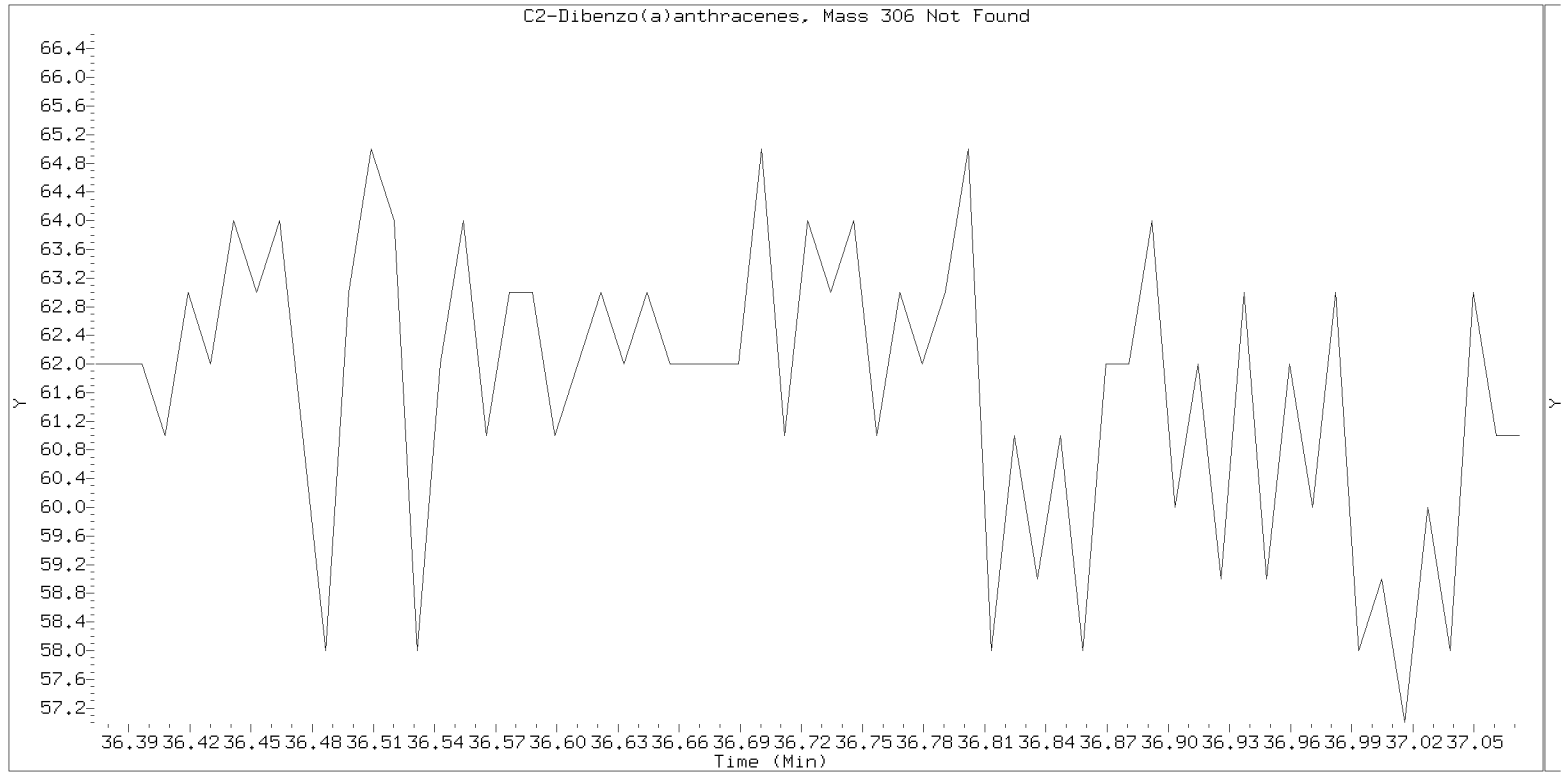
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Lab ID: BIJ0442-BLK1

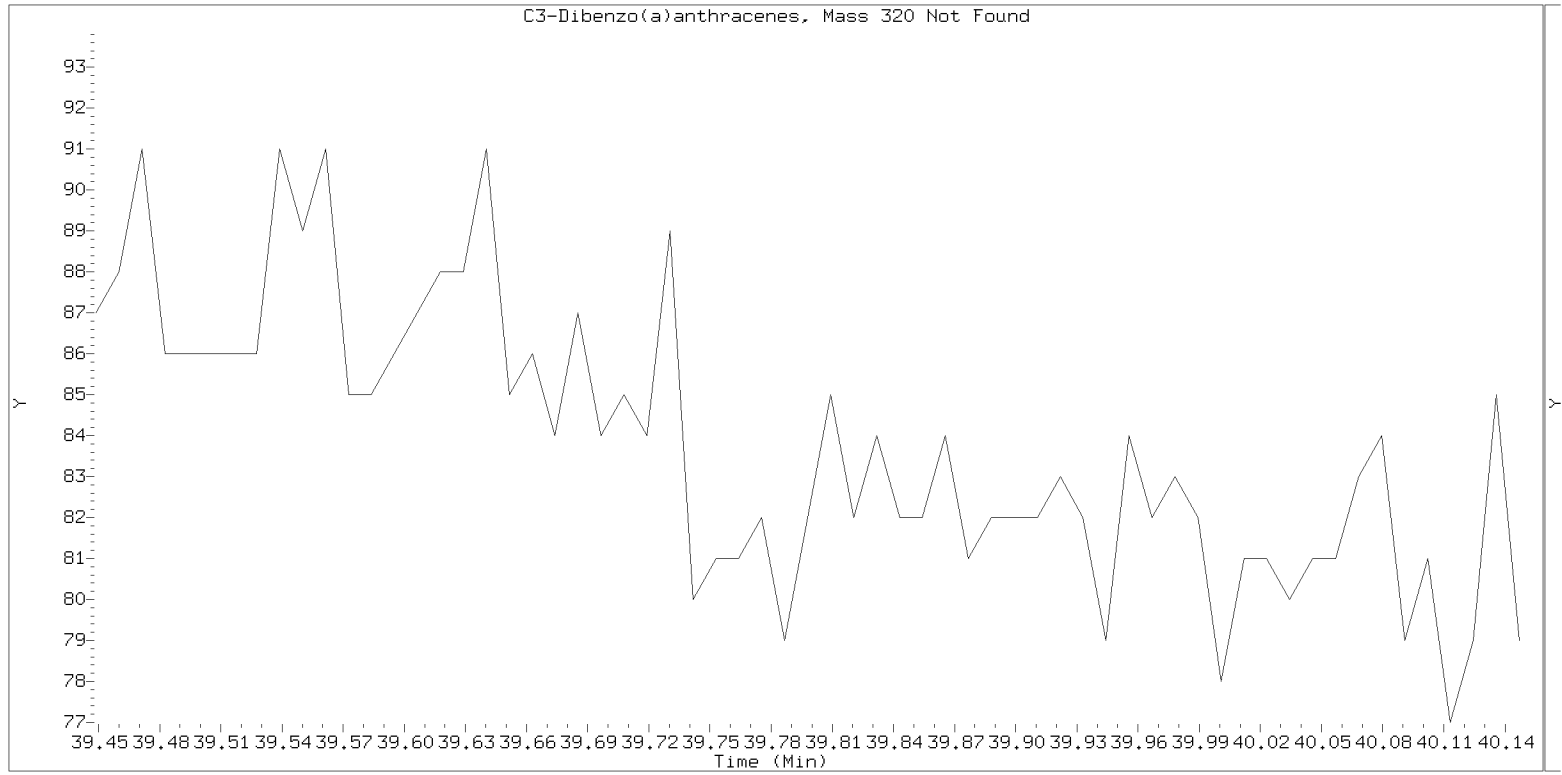
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420102003S.D

Lab ID: BIJ0442-BLK1

nt14.i, SIM.b\ALKYLRANGE.m, 20-OCT-2020 10:58





LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Matrix: Solid

Analyzed: 10/20/20 11:47

Batch: BIJ0442

Laboratory ID: BIJ0442-BS1

Preparation: EPA 3546 (Microwave)

Sequence Name: LCS

Initial/Final: 10 g / 0.5 mL

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
trans-Decalin	150	72.4	Q	48.3	30 - 160
cis-Decalin	150	74.7		49.8	30 - 160
Naphthalene	150	75.3		50.2	37 - 120
1-Methylnaphthalene	150	74.2		49.5	30 - 160
2-Methylnaphthalene	150	77.0		51.4	37 - 120
Biphenyl	150	77.7		51.8	30 - 160
2,6-Dimethylnaphthalene	150	81.4		54.2	30 - 160
Acenaphthylene	150	74.4		49.6	35 - 120
Acenaphthene	150	84.6		56.4	39 - 120
Dibenzofuran	150	84.7		56.5	39 - 120
2,3,5-Trimethylnaphthalene	150	90.7		60.5	30 - 160
Fluorene	150	87.9		58.6	42 - 120
Benzo(b)thiophene	150	74.0		49.3	30 - 160
Phenanthrene	150	98.4		65.6	47 - 120
Anthracene	150	93.7		62.5	41 - 120
Carbazole	150	113		75.2	30 - 160
1-Methylphenanthrene	150	114		75.8	30 - 160
Fluoranthene	150	117		77.9	52 - 120
Dibenzothiophene	150	93.4		62.3	30 - 160
Pyrene	150	117		78.0	47 - 120
Benzo(a)anthracene	150	116	Q	77.1	47 - 120
Chrysene	150	116		77.1	51 - 120
Benzo(b)fluoranthene	150	112		74.3	35 - 127
Benzo(j)fluoranthene	150	119		79.1	40 - 120
Benzo(k)fluoranthene	150	123		81.8	37 - 129
Benzo(a)fluoranthene, Total	450	352		78.2	46 - 120
Benzo(e)pyrene	150	119		79.2	30 - 160
Benzo(a)pyrene	150	107		71.1	44 - 120
Indeno(1,2,3-cd)pyrene	150	118		78.9	41 - 120
Dibenzo(a,h)anthracene	150	119		79.2	42 - 120
Benzo(g,h,i)perylene	150	124		82.4	37 - 120
Perylene	150	108		71.9	30 - 160
Benzo(b)naphtho(2,1-d)thiophene	150	114		76.1	30 - 160

* Indicates values outside of QC limits



Analytical Resources, Incorporated
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0121</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Solid</u>	Analyzed:	<u>10/20/20 11:47</u>
Batch:	<u>BIJ0442</u>	Laboratory ID:	<u>BIJ0442-BS1</u>
Preparation:	<u>EPA 3546 (Microwave)</u>	Sequence Name:	<u>LCS</u>
Initial/Final:	<u>10 g / 0.5 mL</u>		

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20201020.16\NT1420102004.D

Date : 20-OCT-2020 11:47

Client ID:

Sample Info: B1J0442-BS1

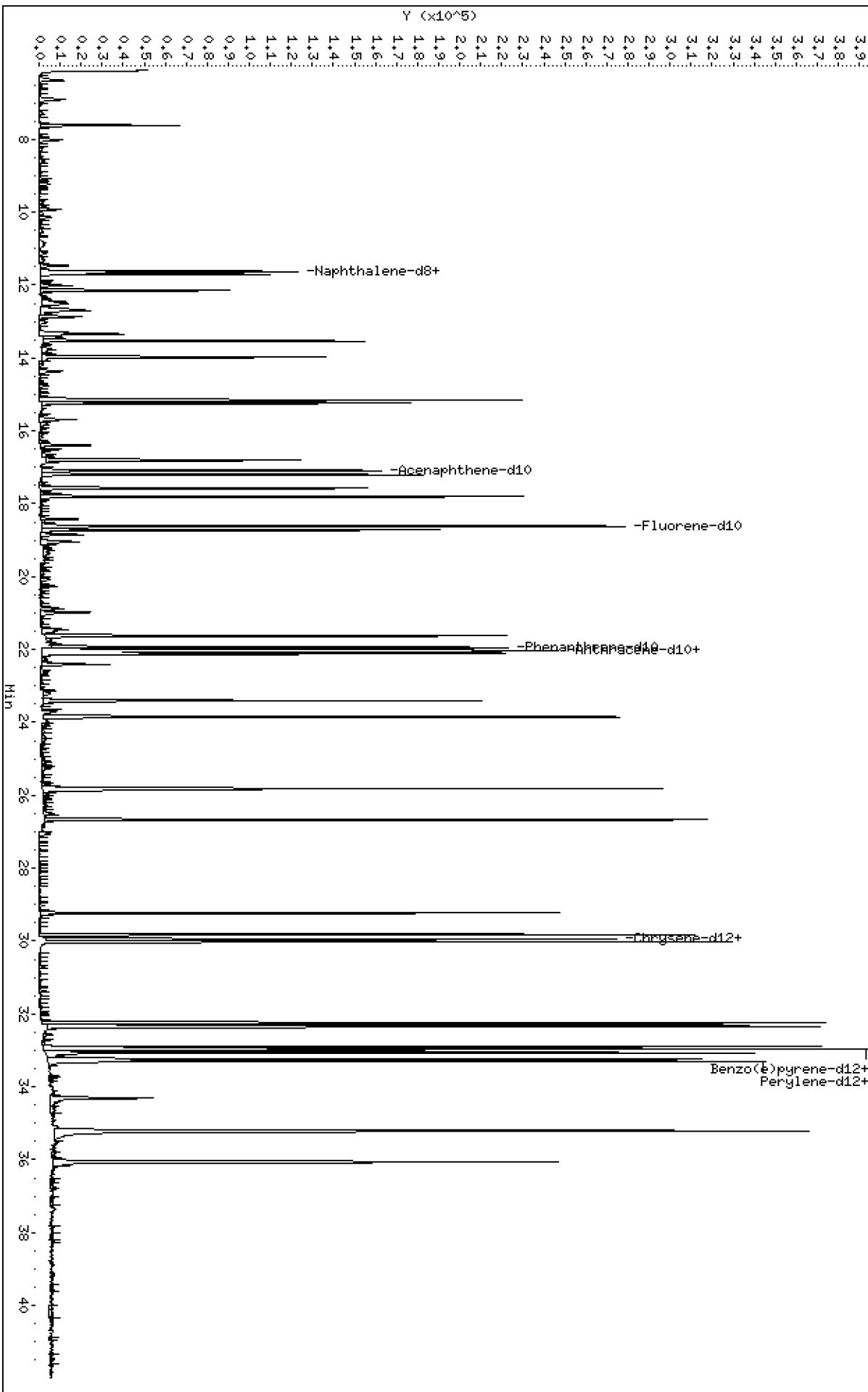
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

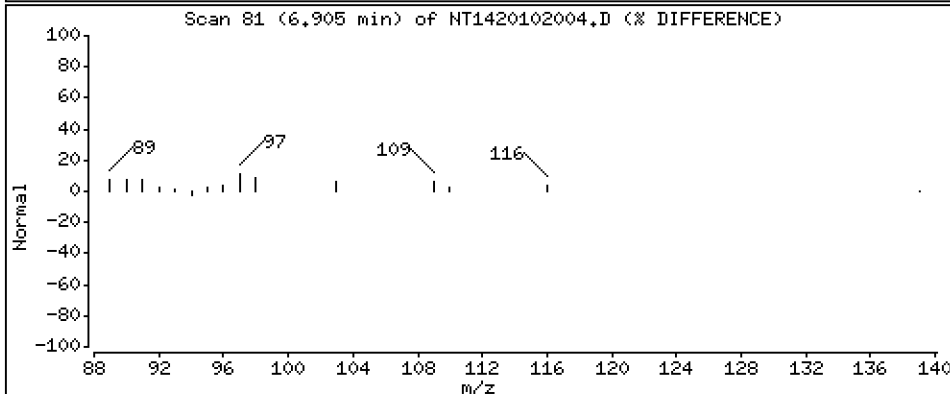
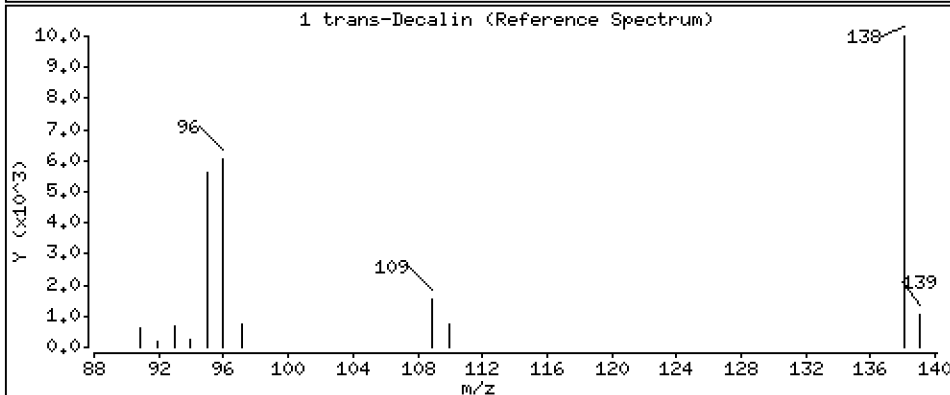
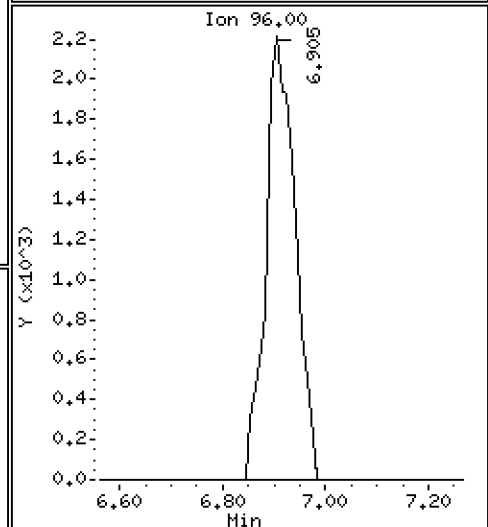
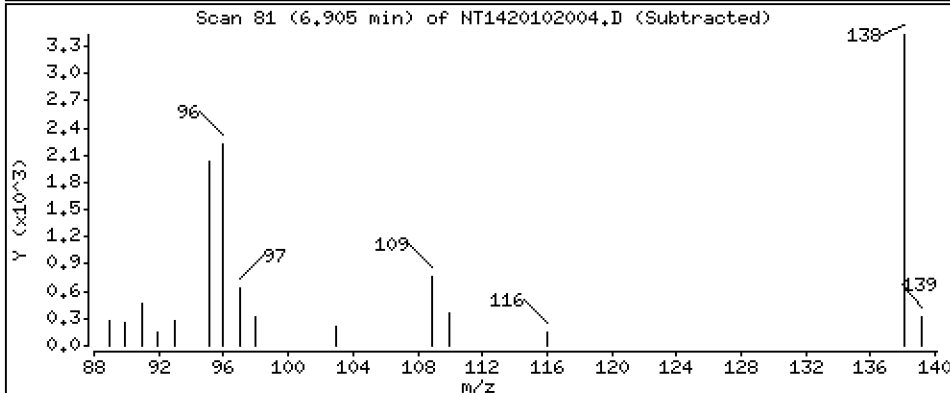
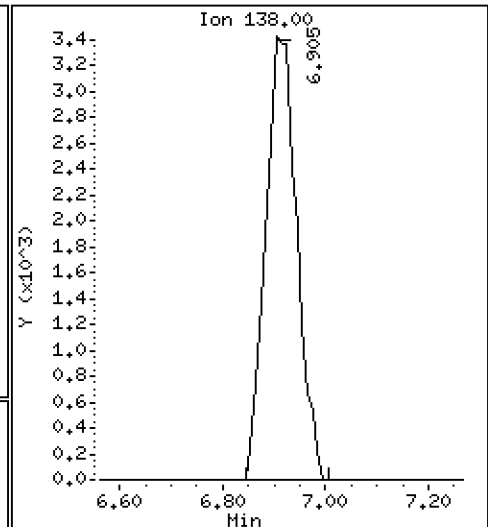
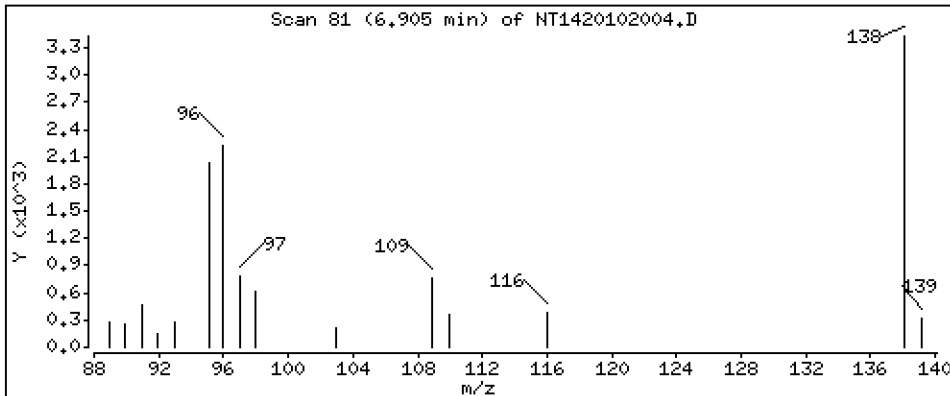
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

1 trans-Decalin

Concentration: 1,448 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

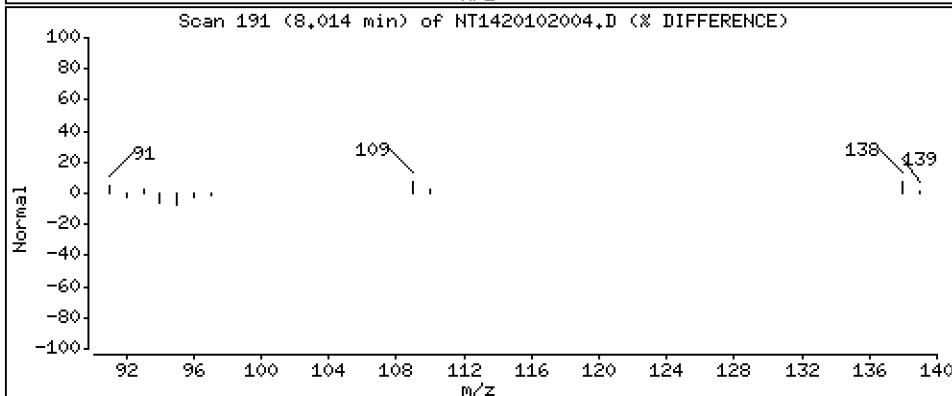
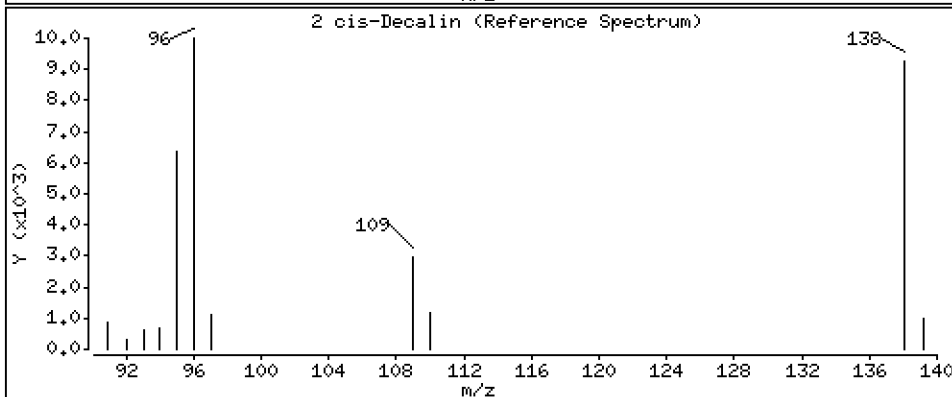
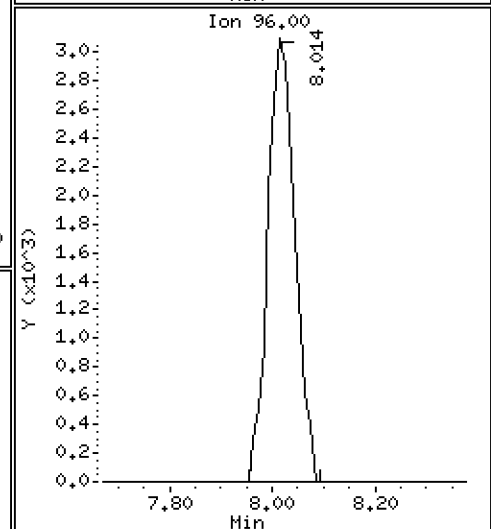
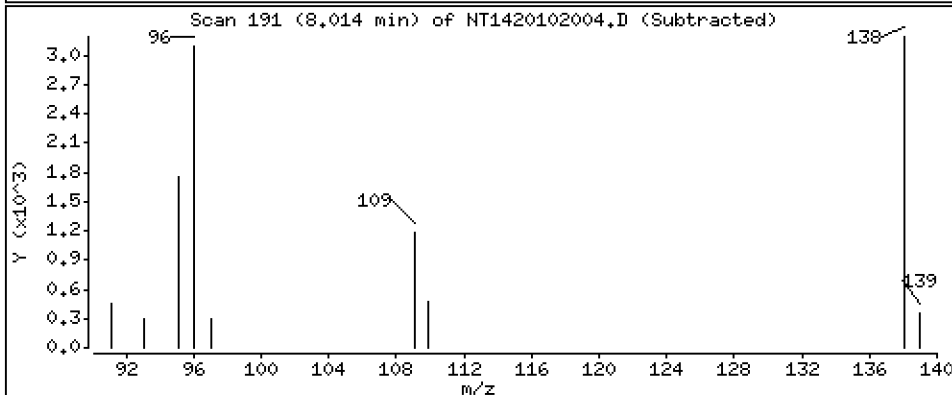
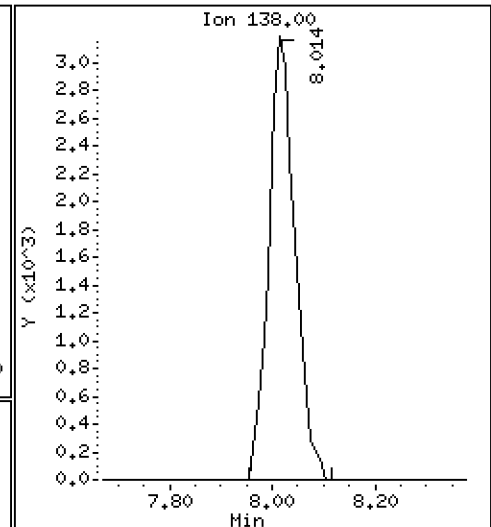
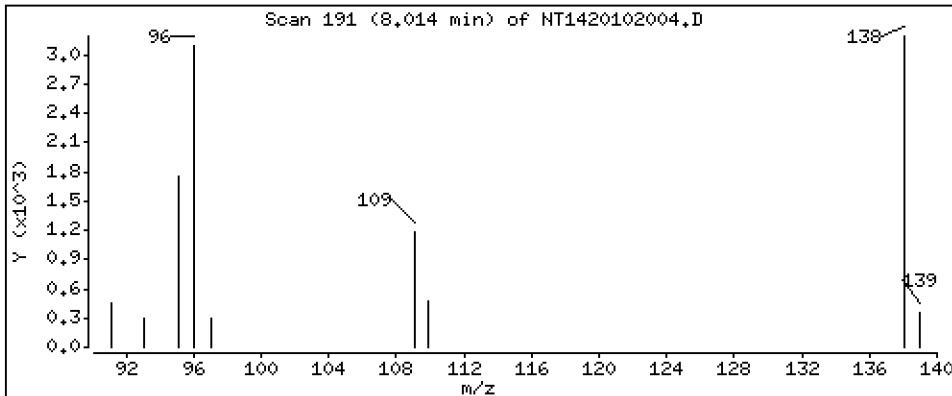
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

2 cis-Decalin

Concentration: 1.495 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

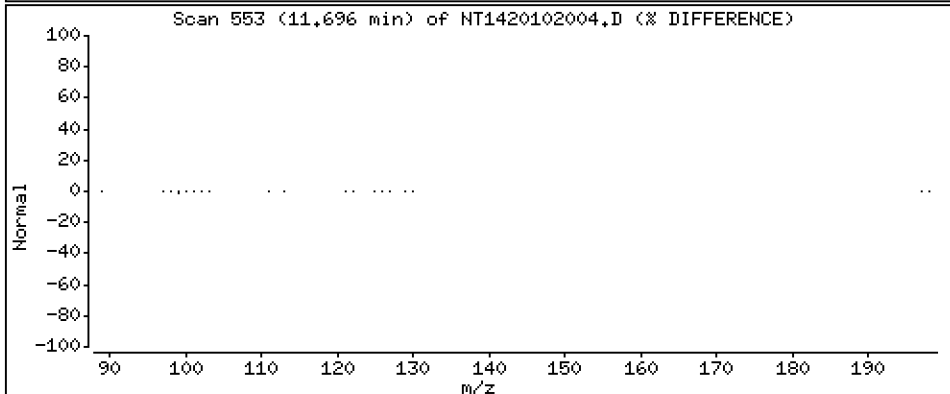
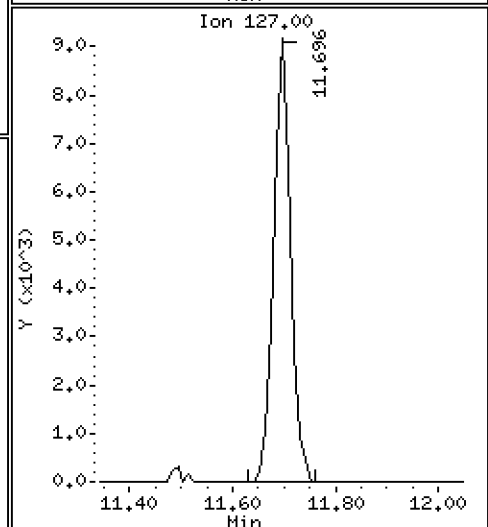
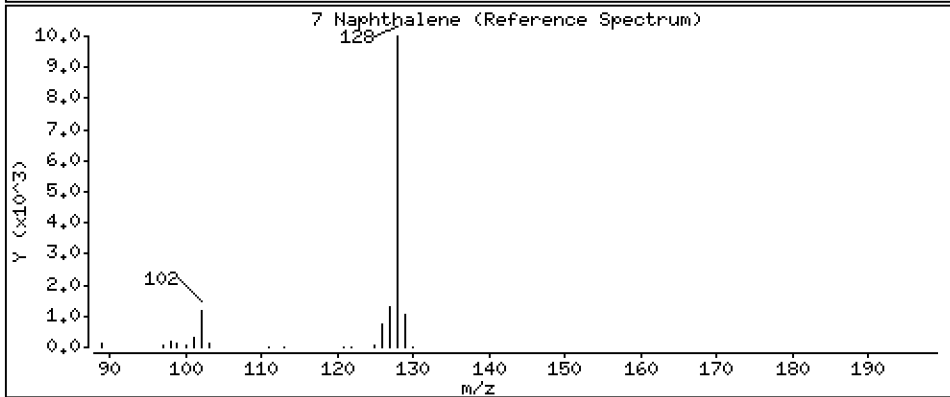
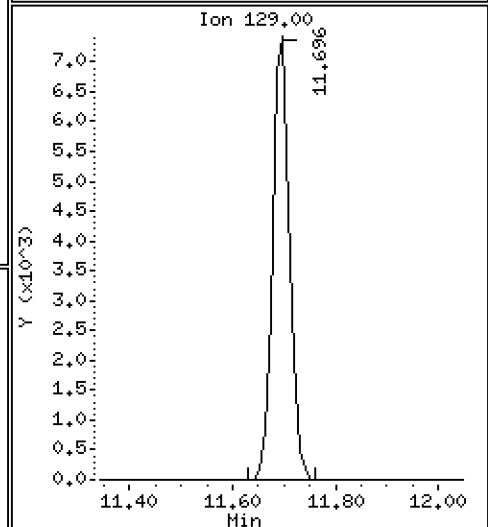
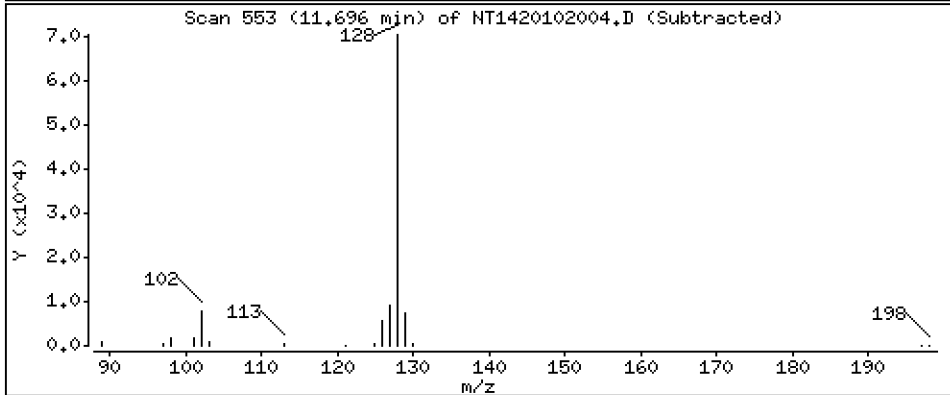
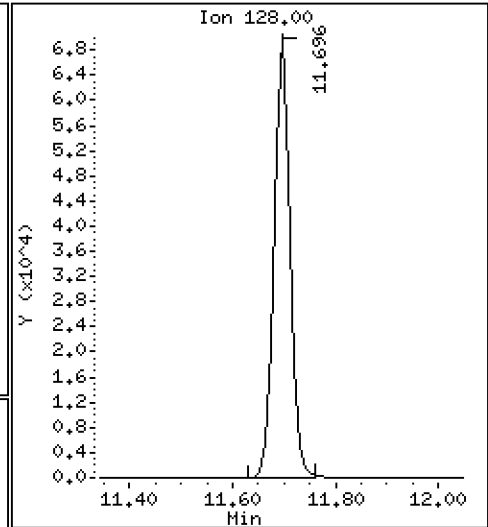
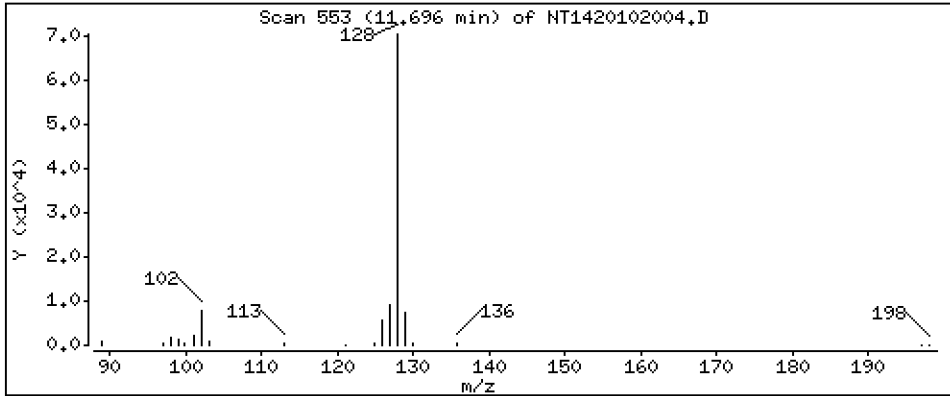
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 1,506 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

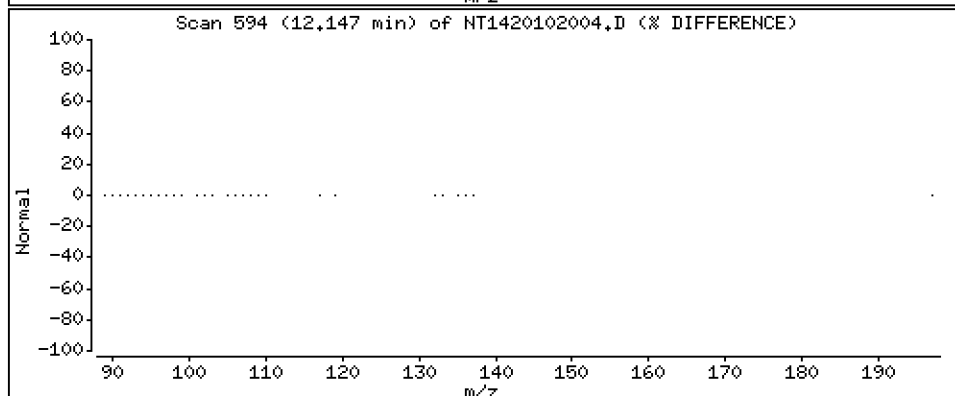
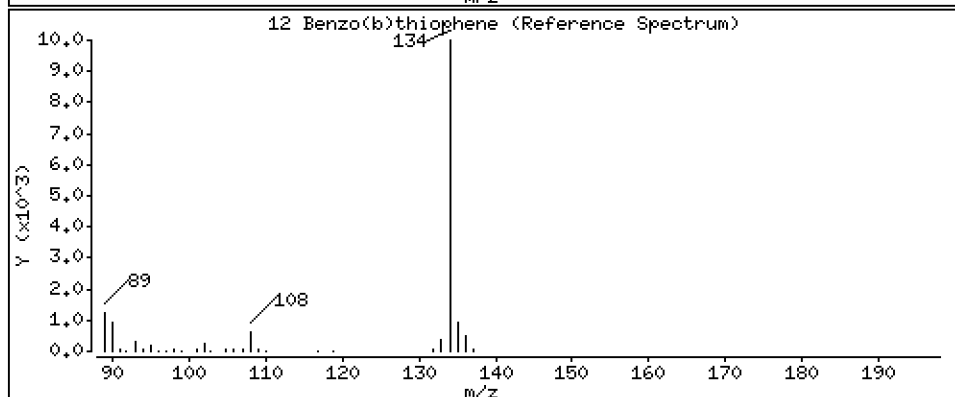
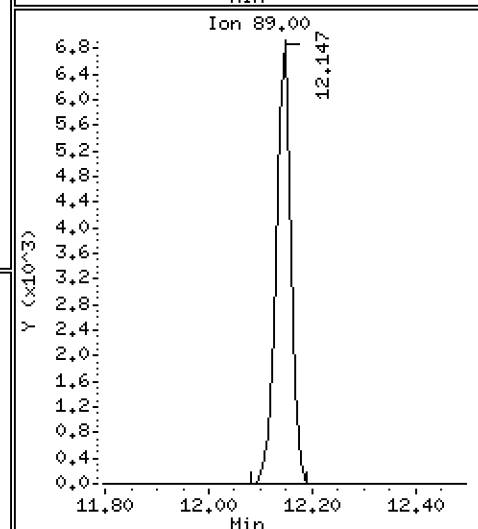
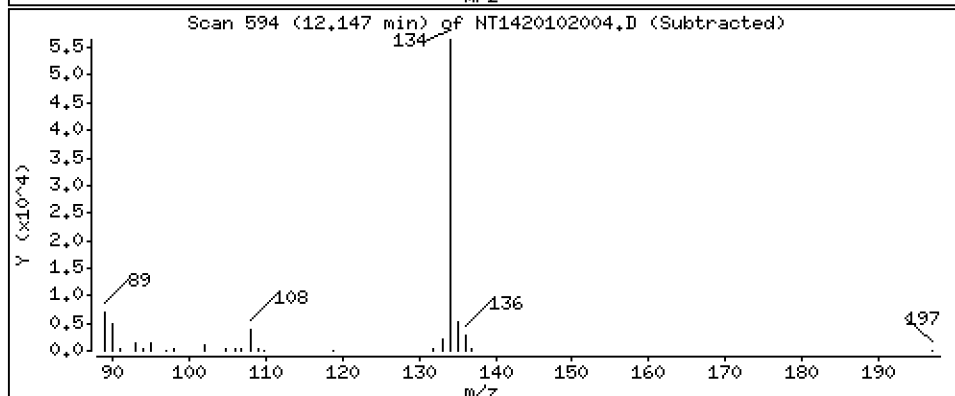
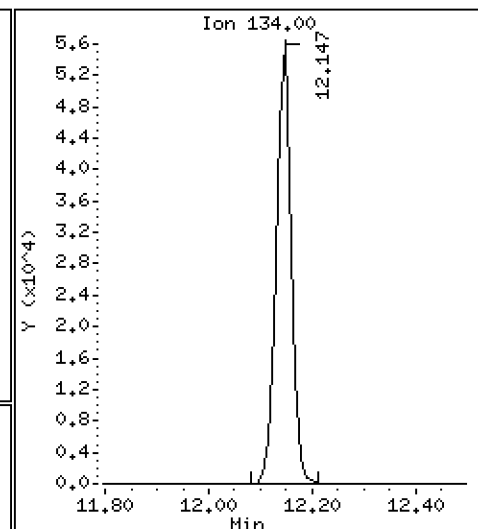
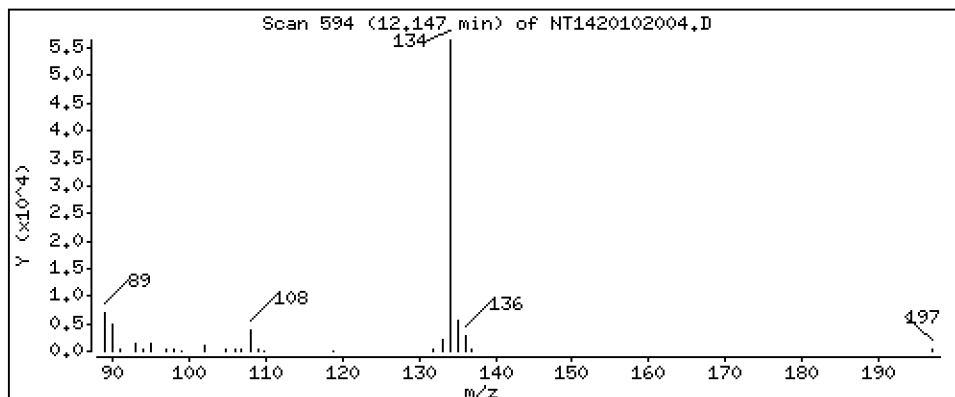
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

12 Benzo(b)thiophene

Concentration: 1,480 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

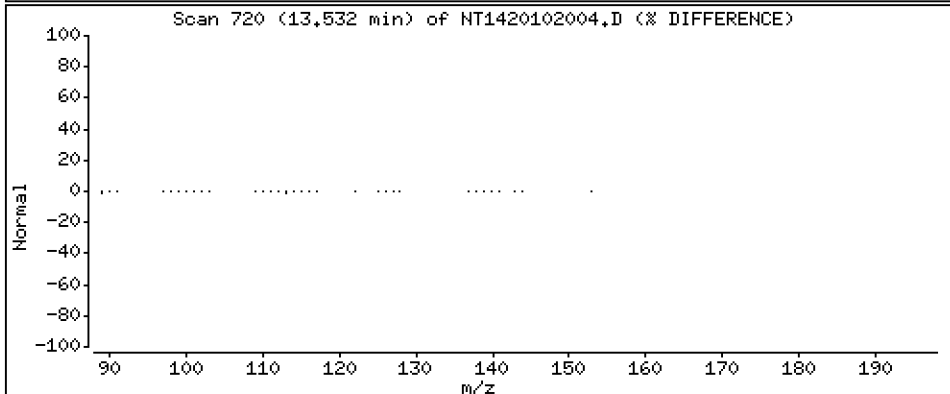
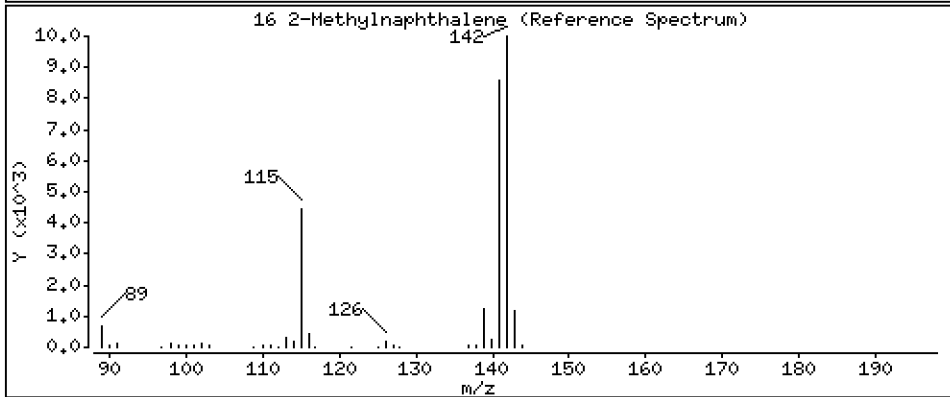
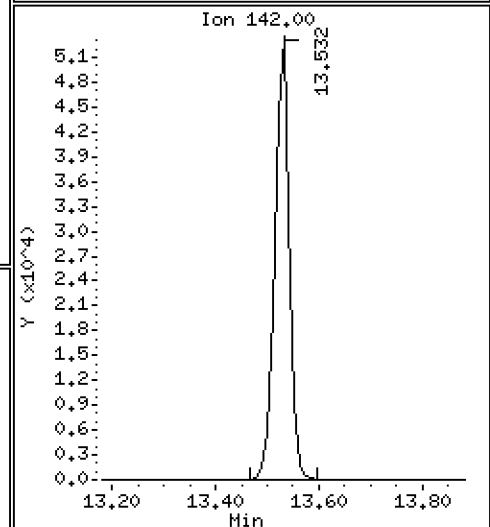
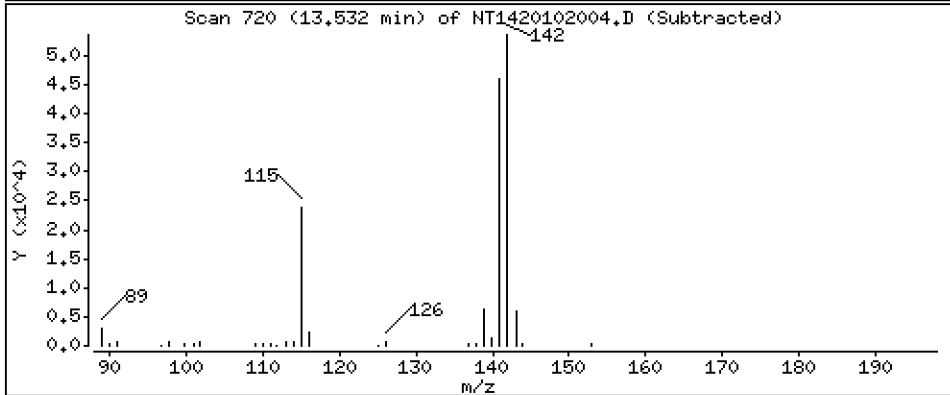
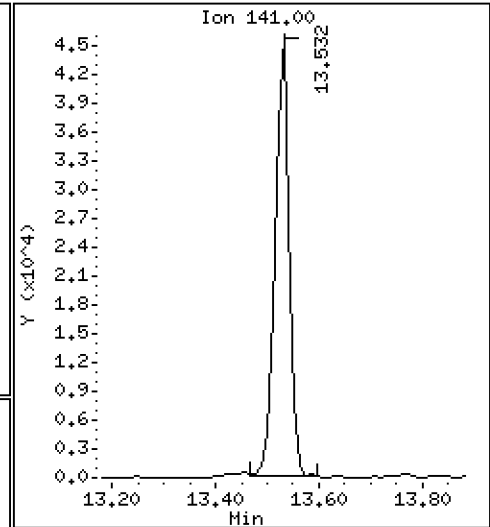
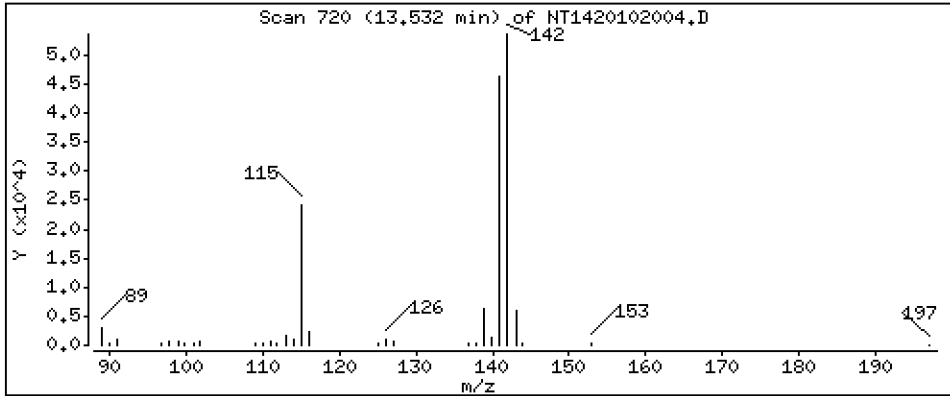
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 1,541 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

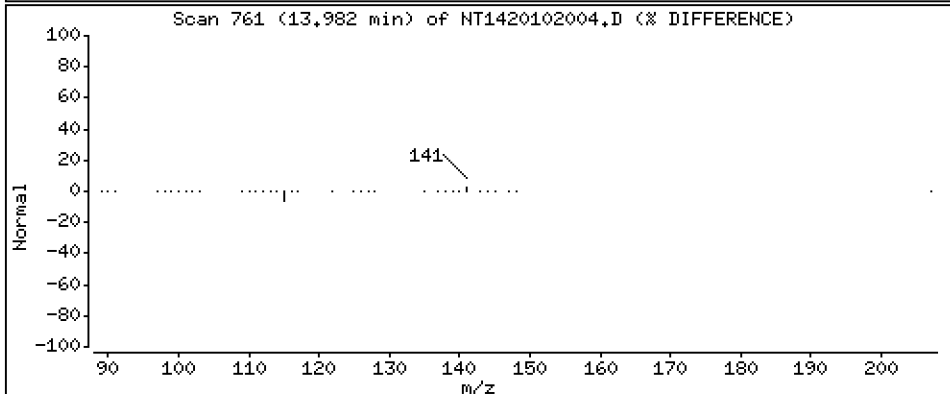
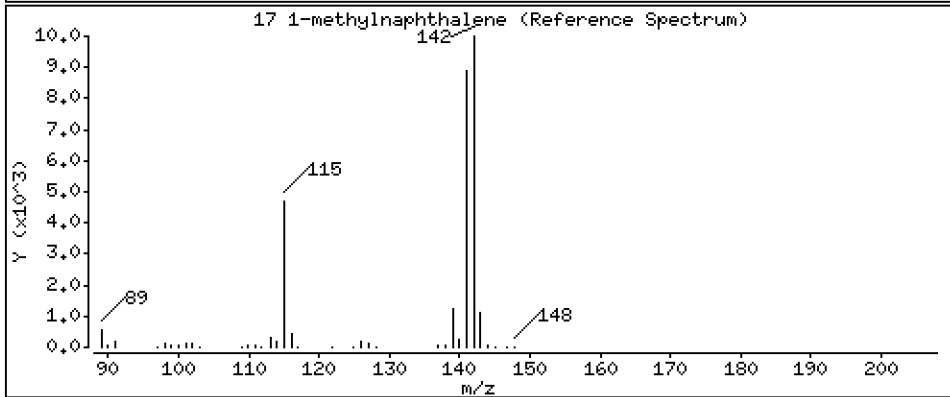
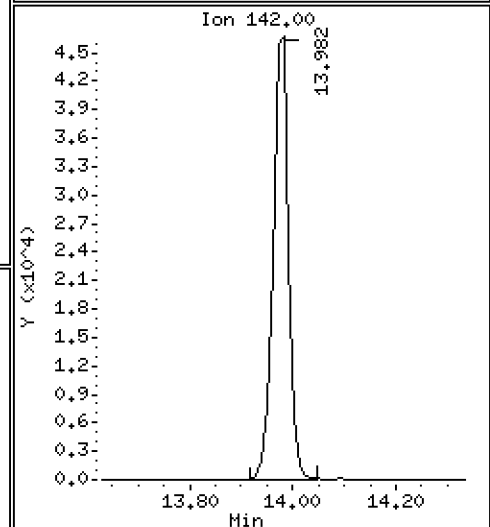
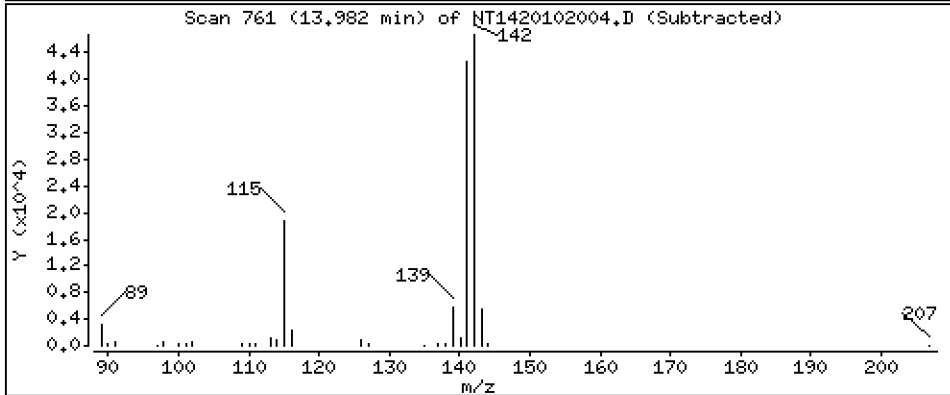
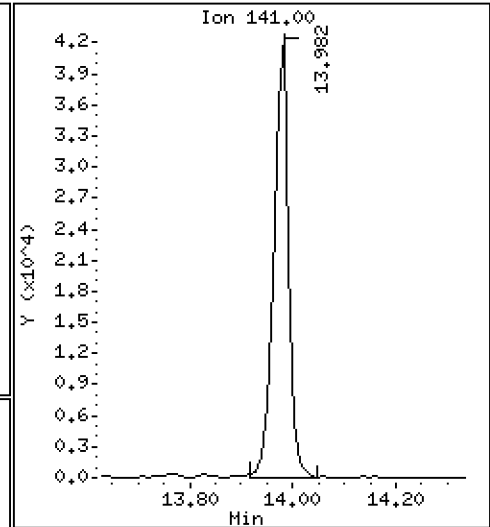
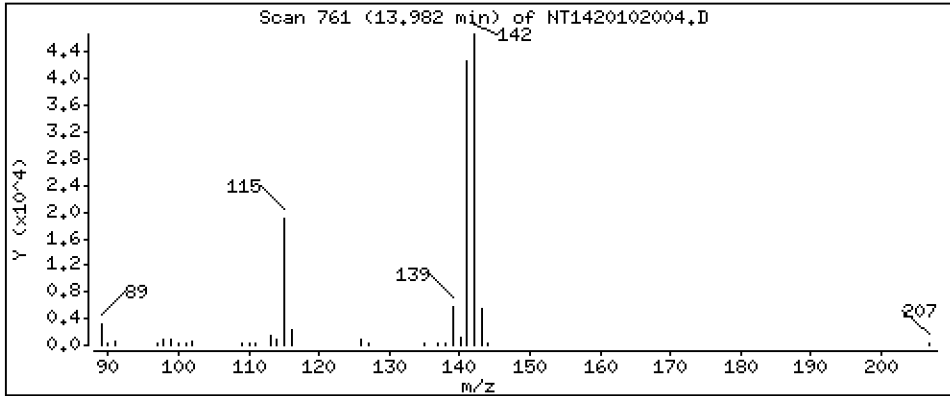
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 1,484 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

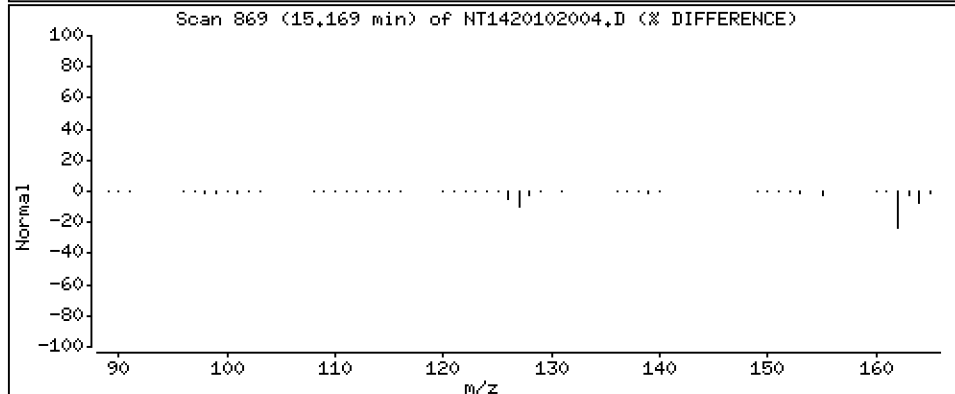
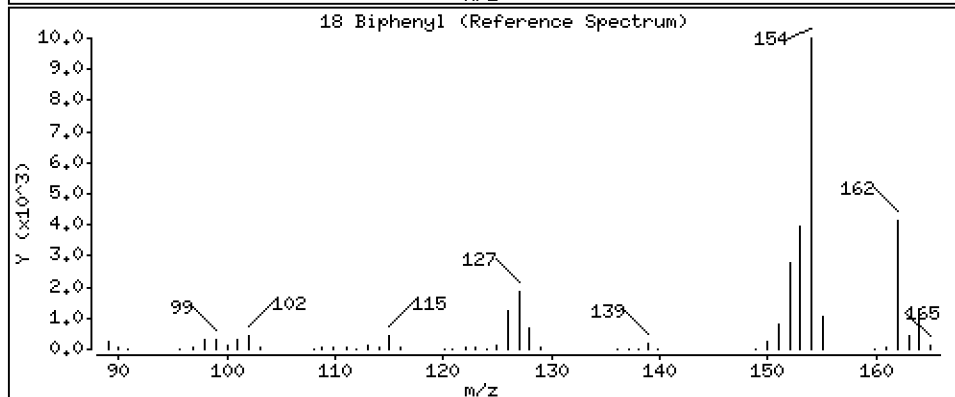
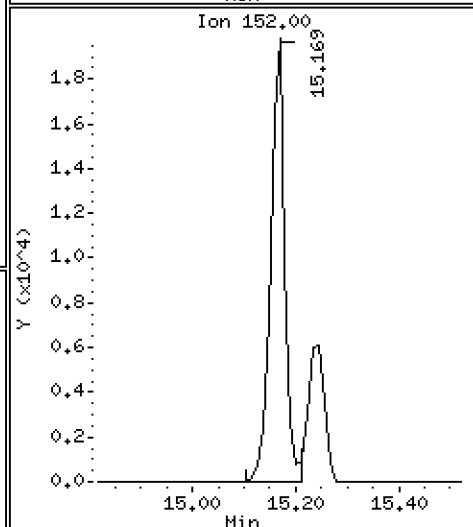
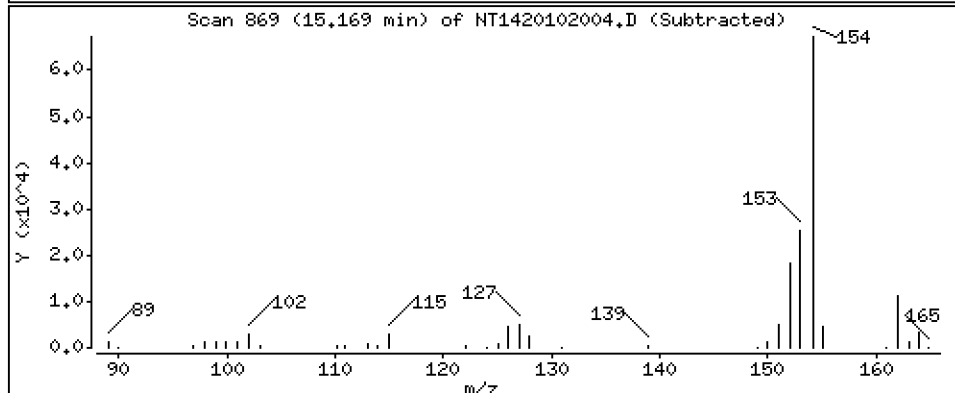
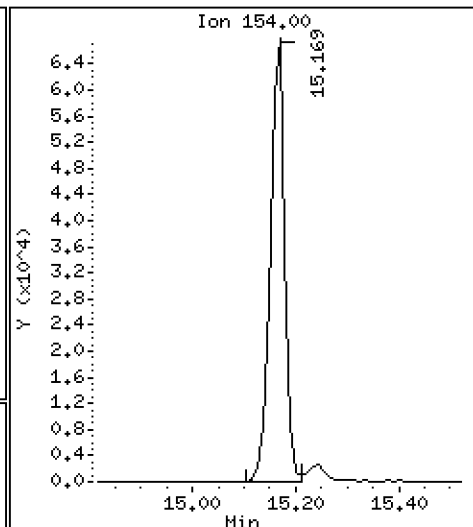
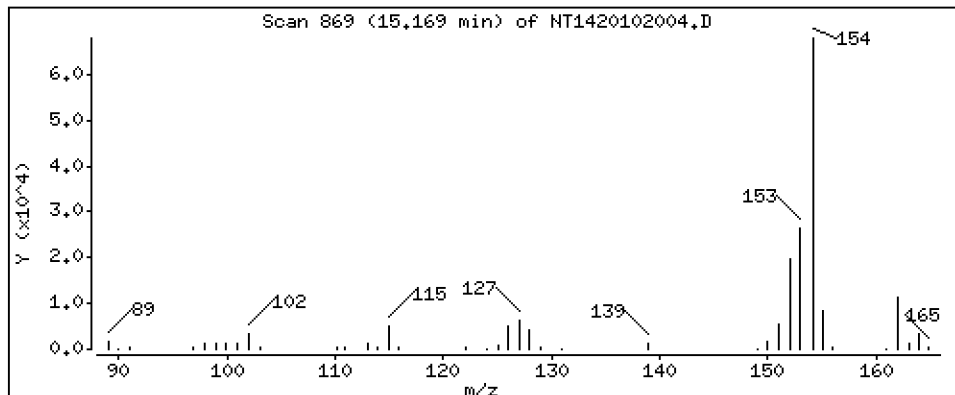
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

18 Biphenyl

Concentration: 1,555 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

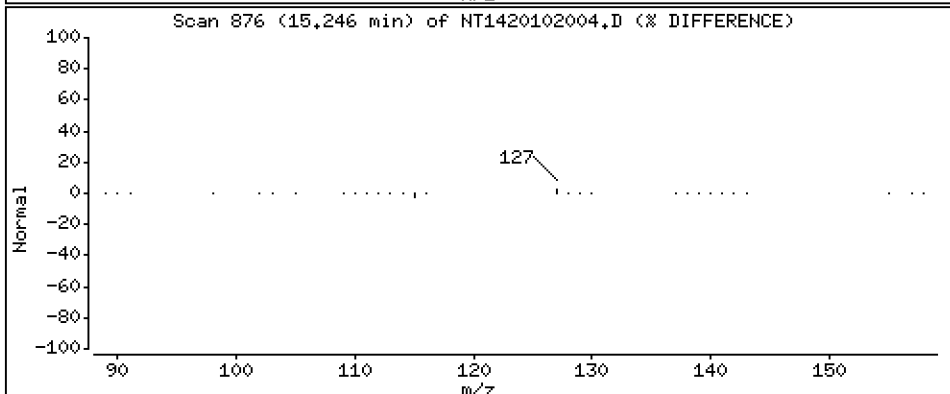
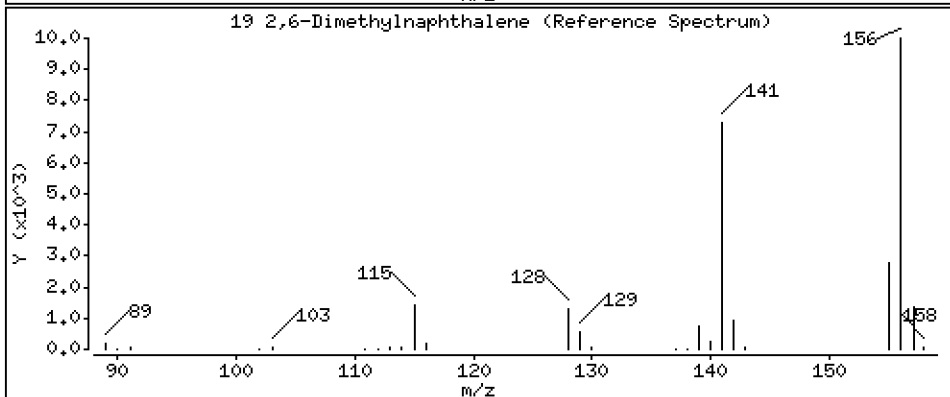
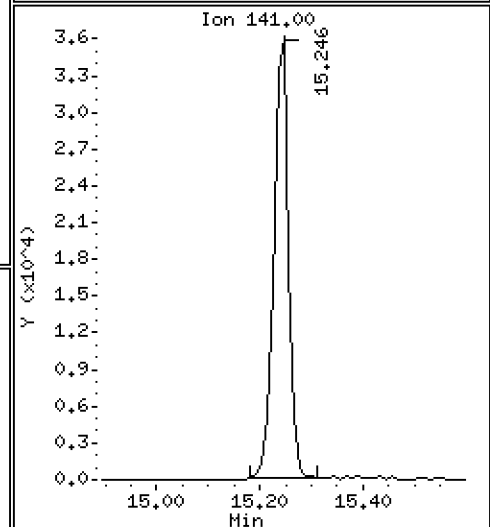
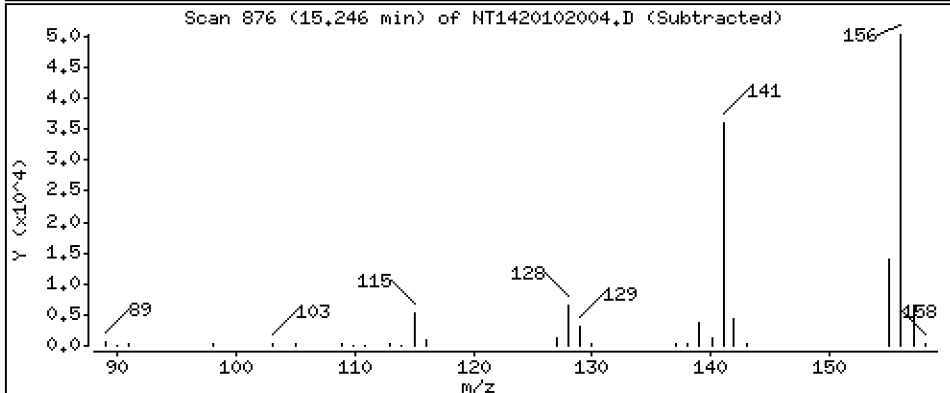
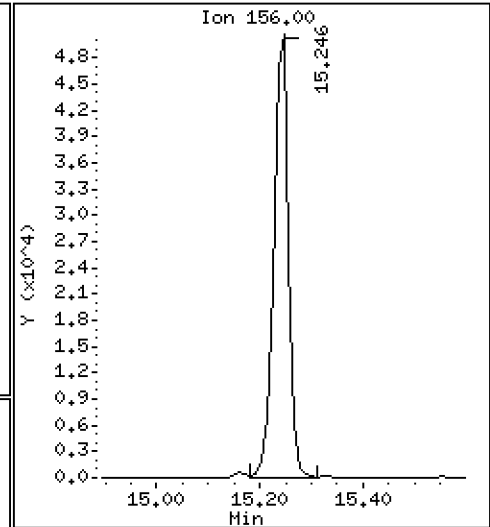
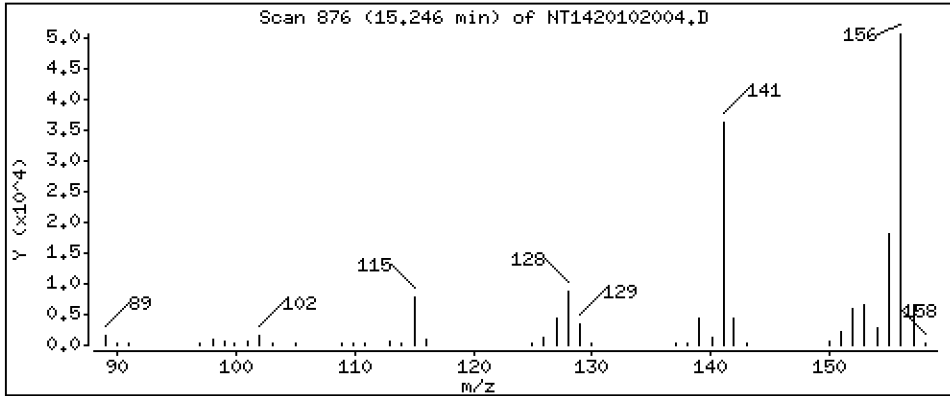
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 2,6-Dimethylnaphthalene

Concentration: 1,627 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

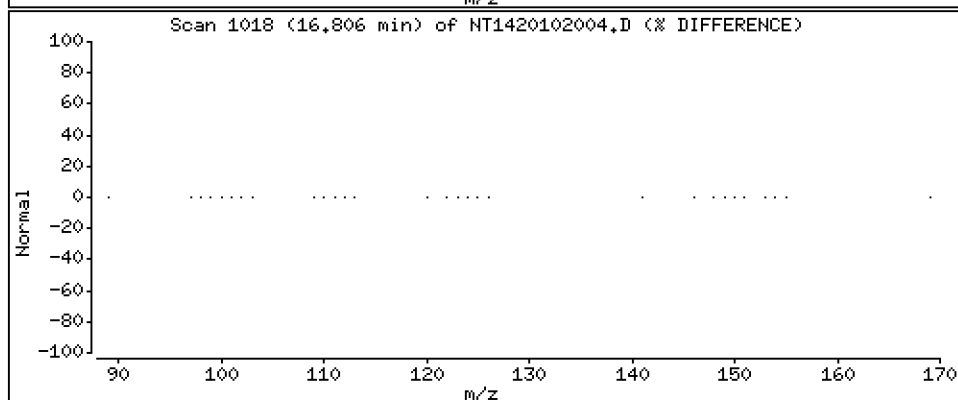
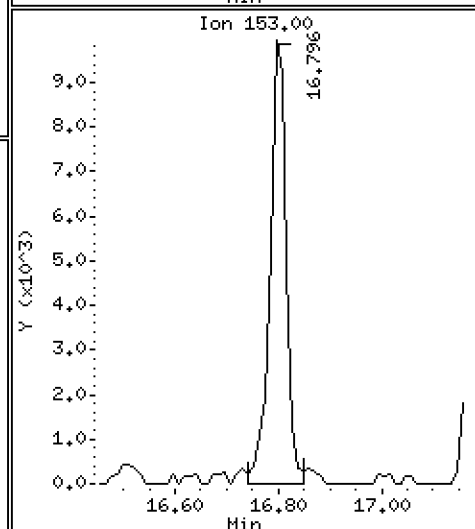
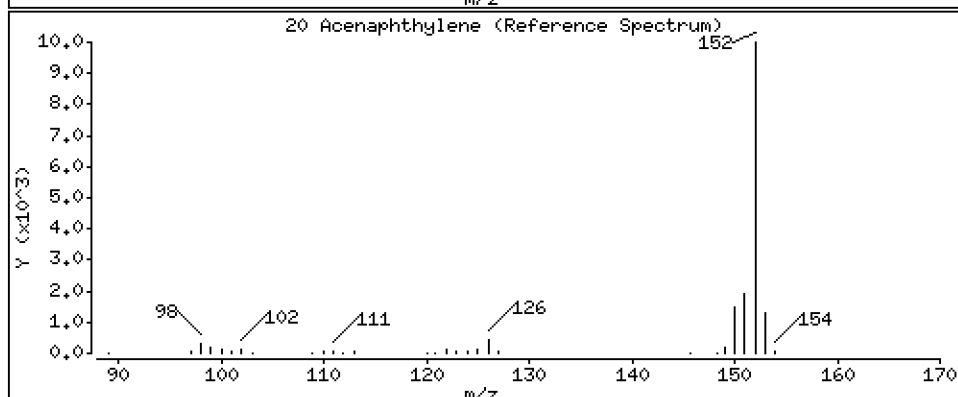
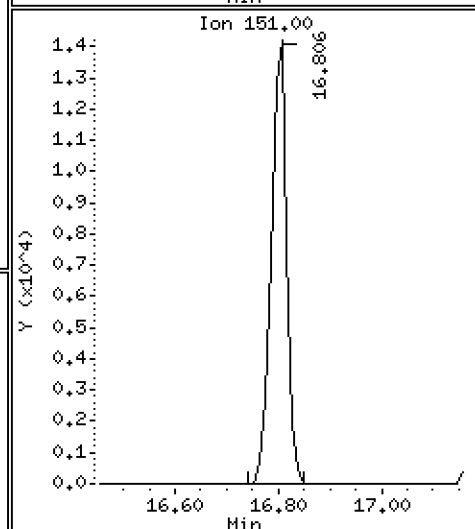
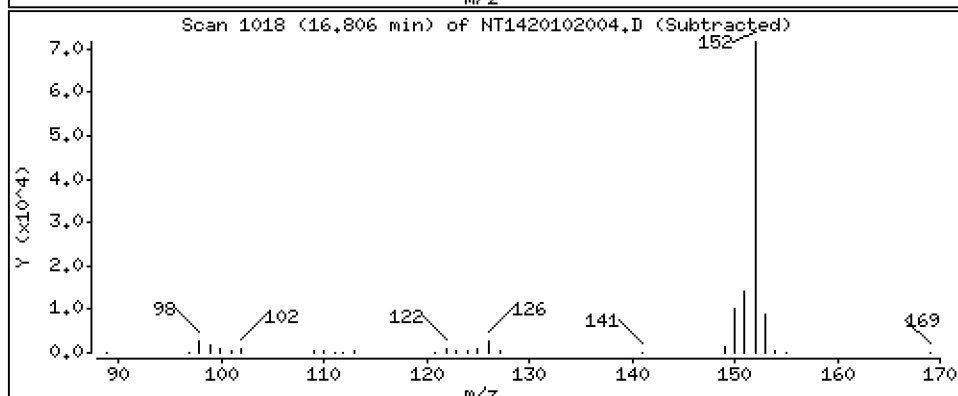
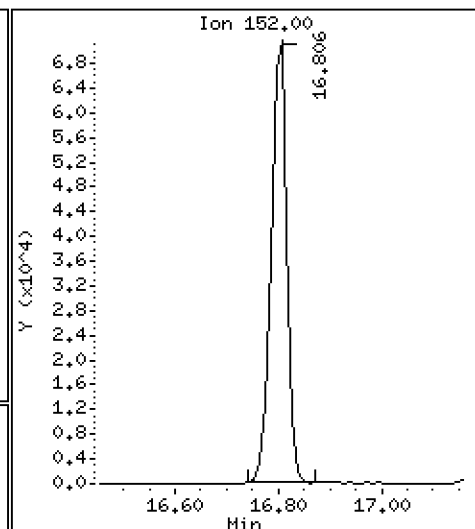
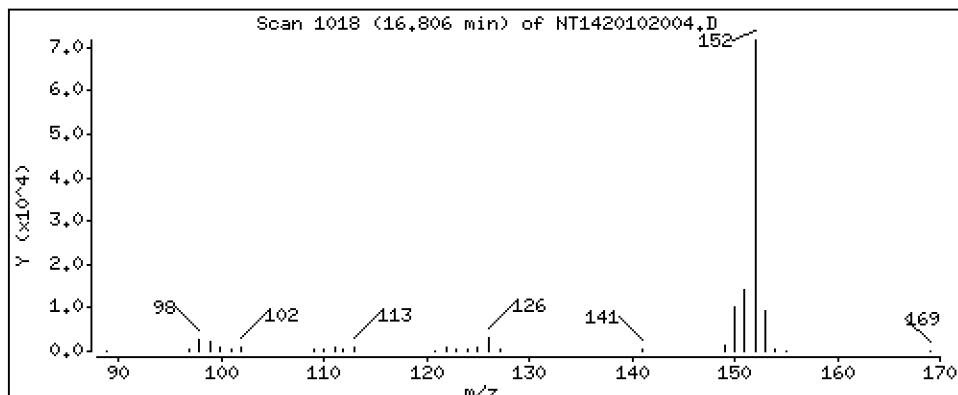
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 1,487 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

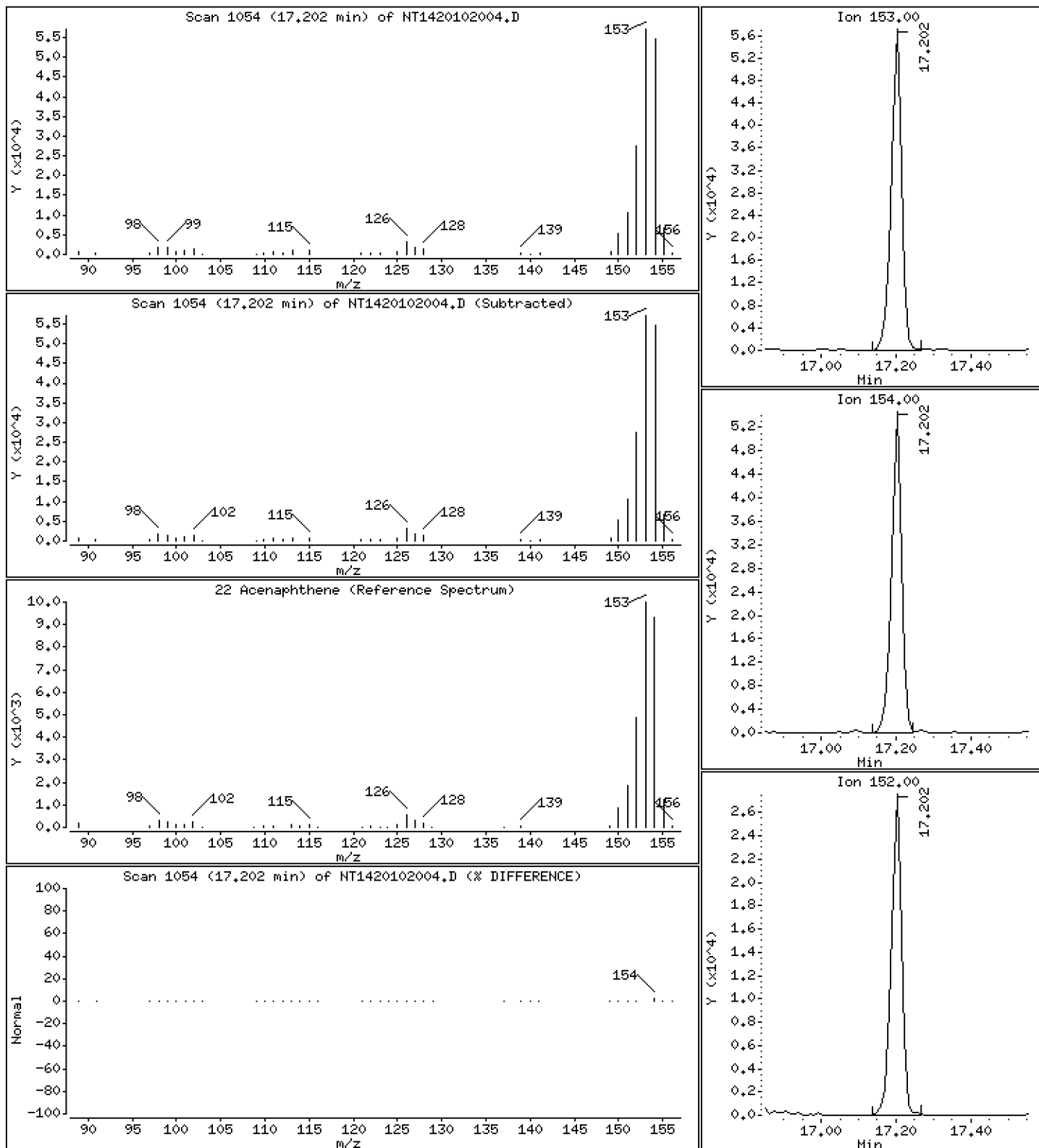
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 1,693 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

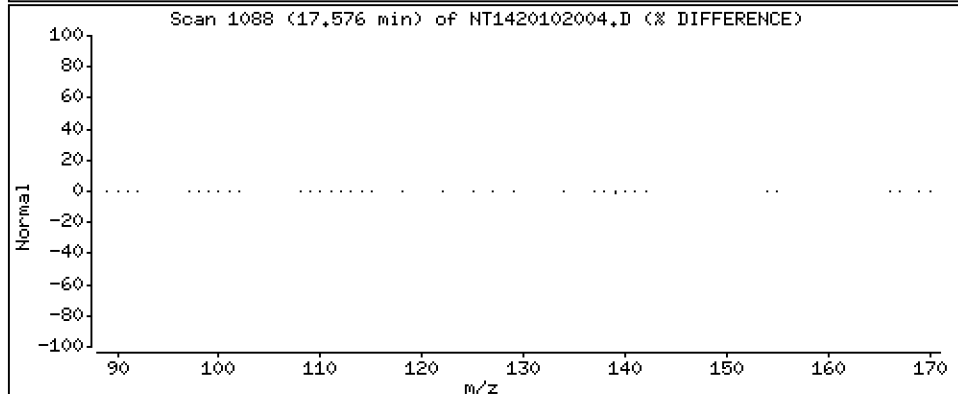
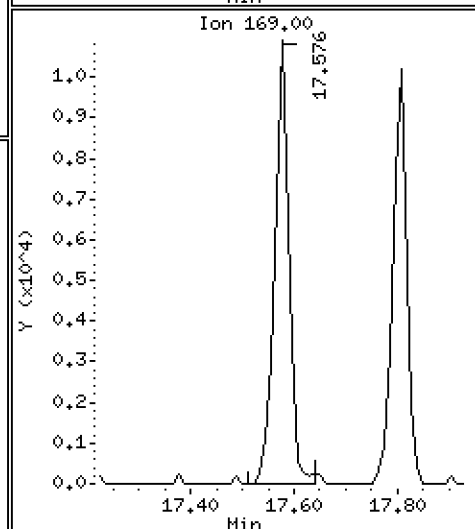
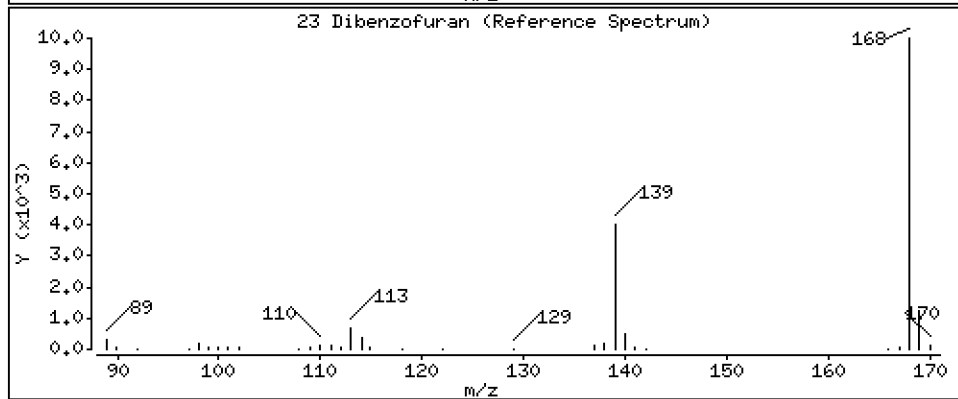
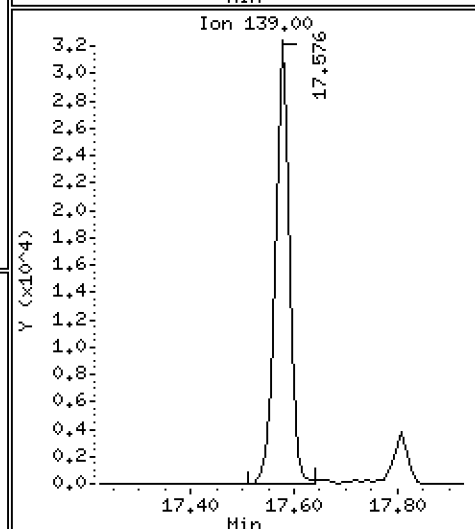
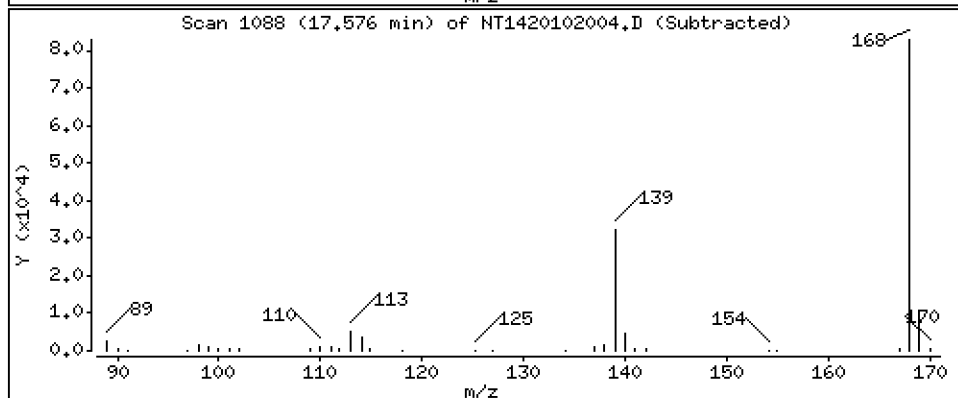
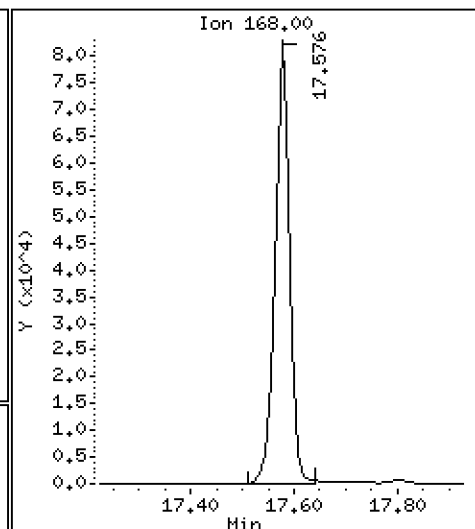
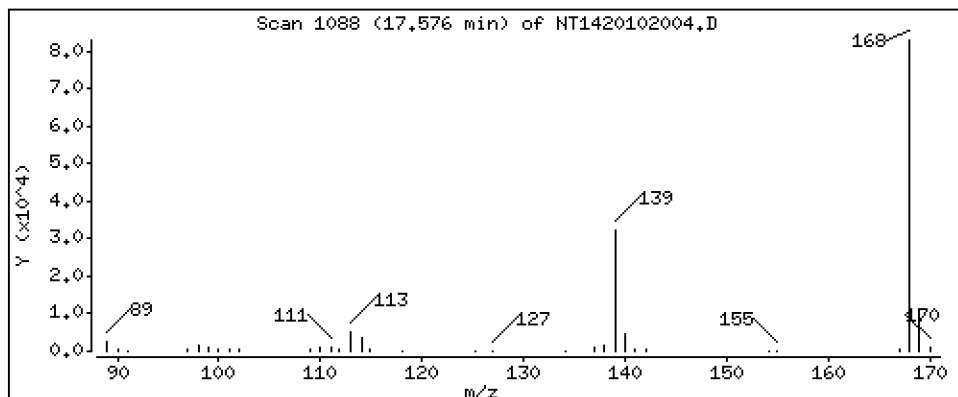
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 1,694 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

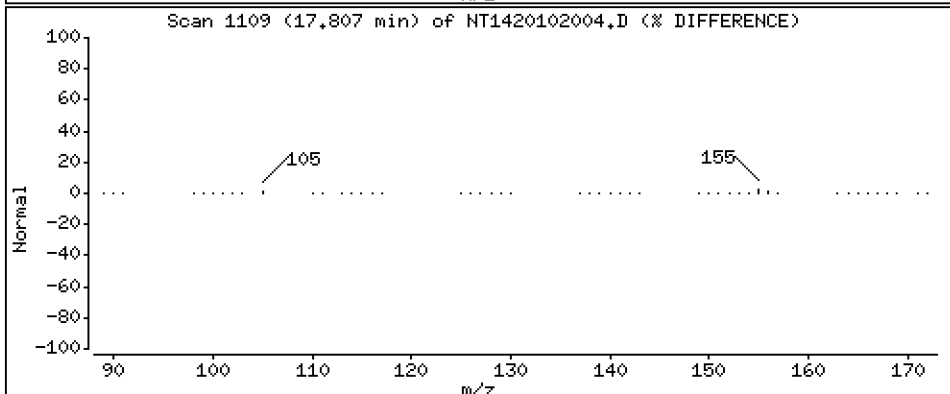
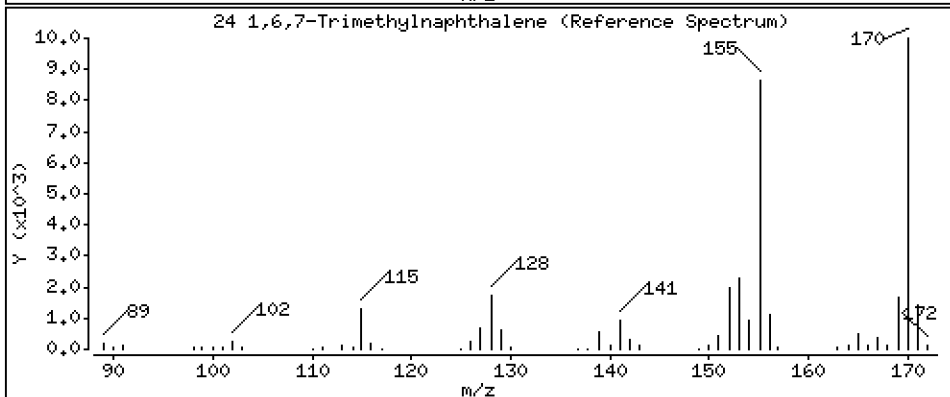
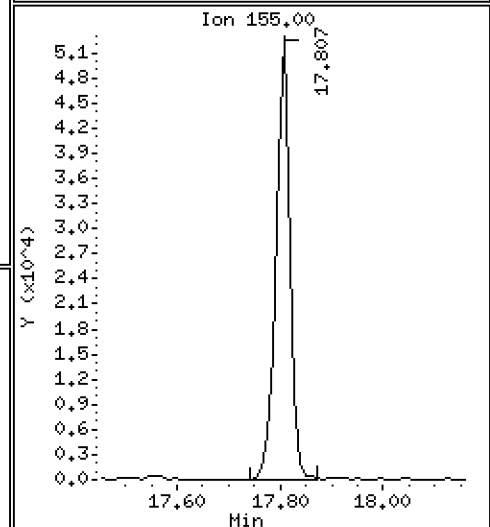
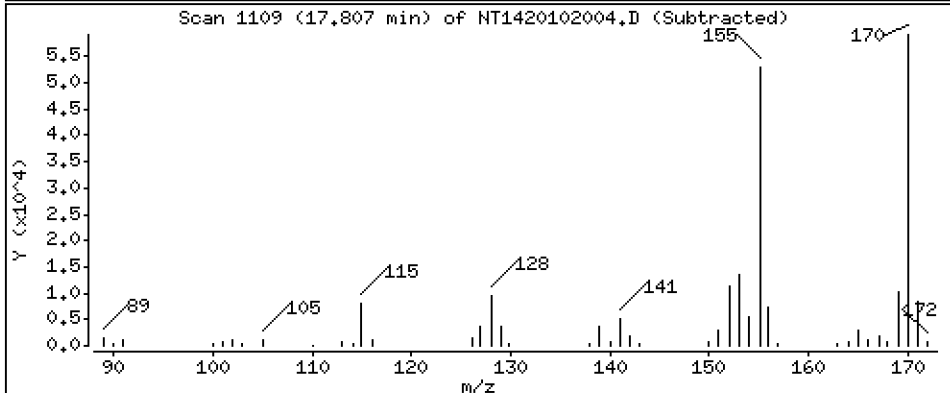
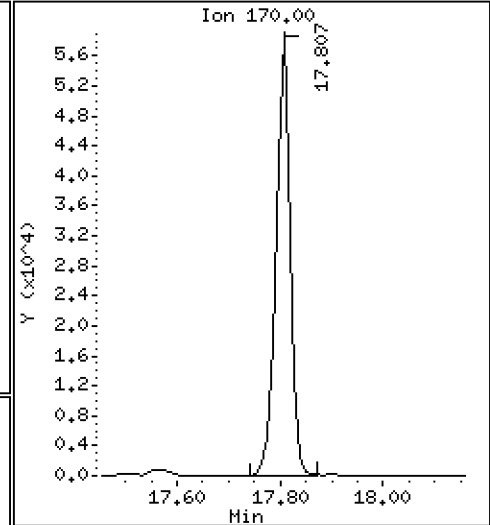
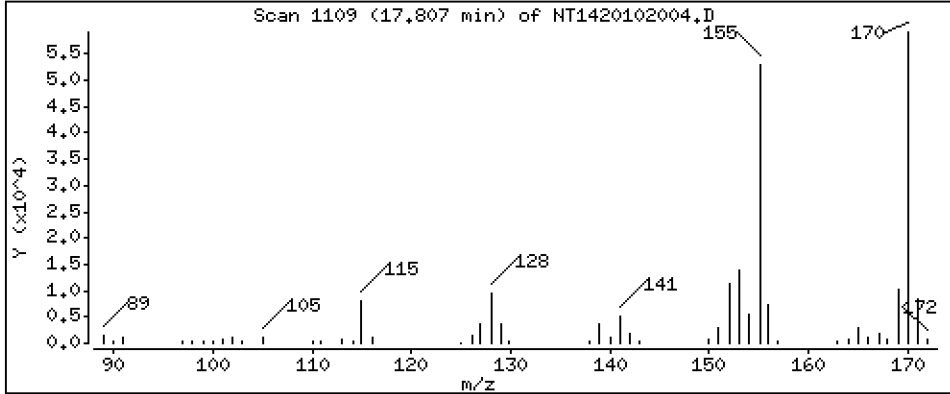
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

24 1,6,7-Trimethylnaphthalene

Concentration: 1,815 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

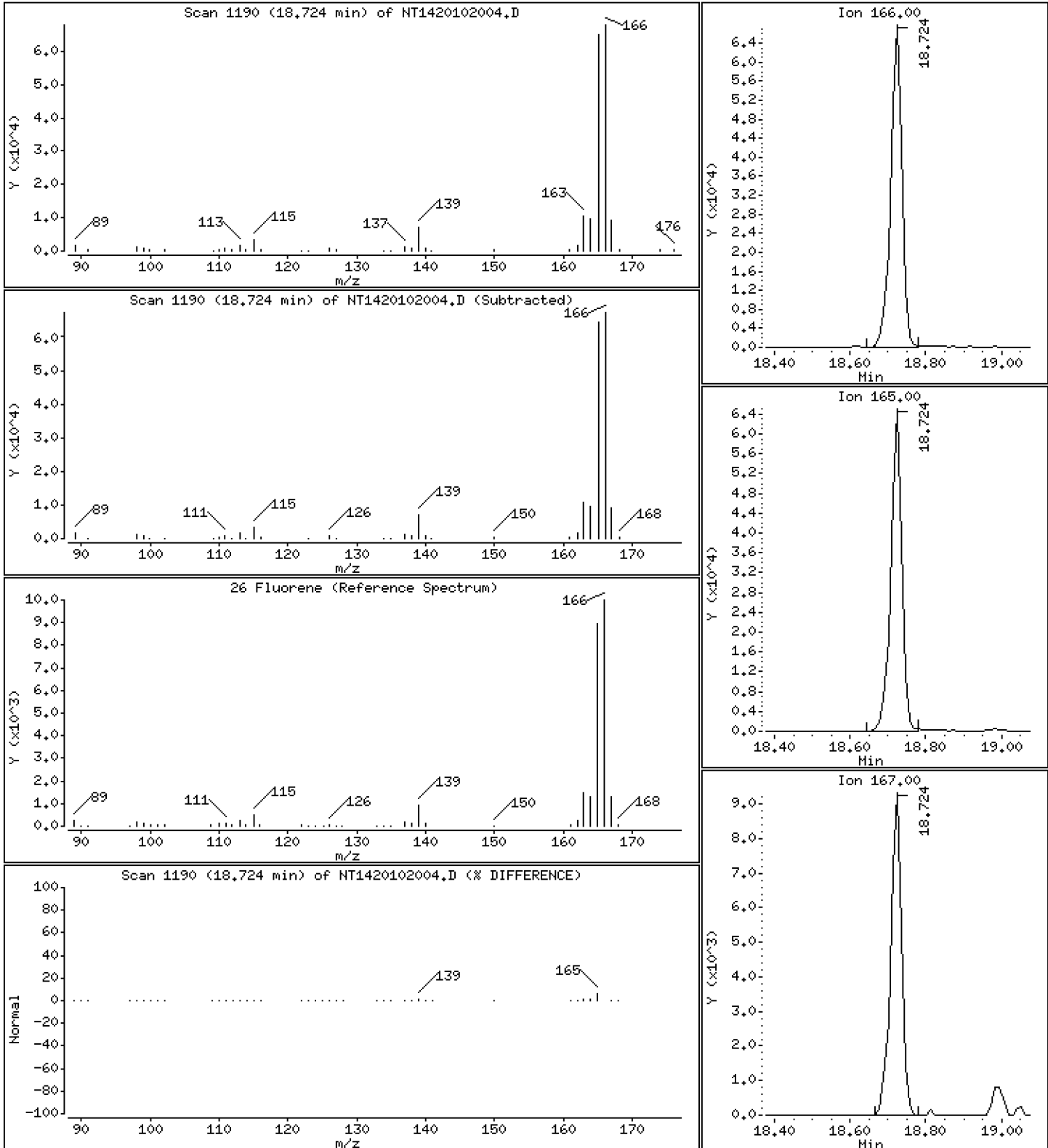
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

26 Fluorene

Concentration: 1.759 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

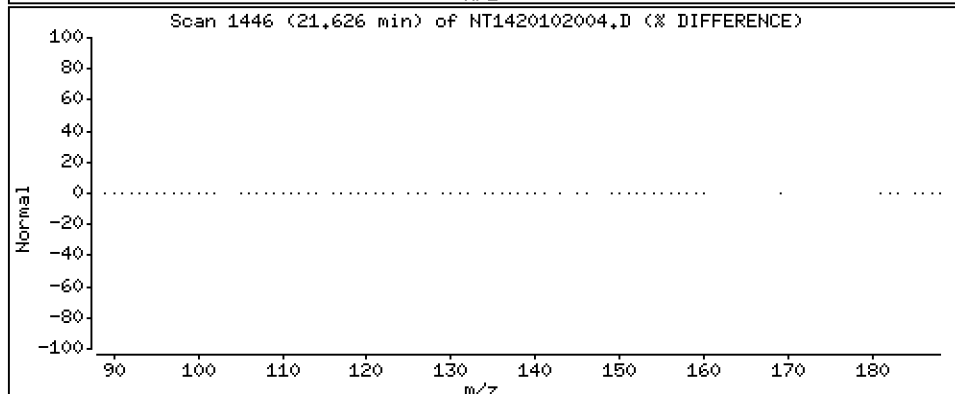
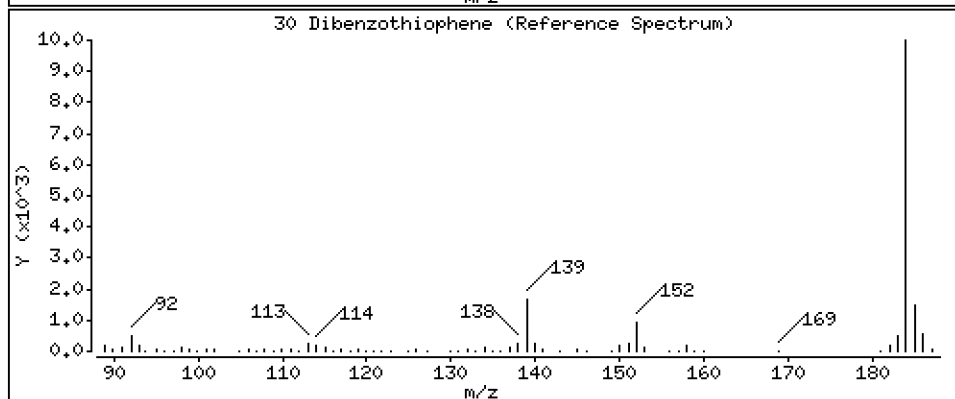
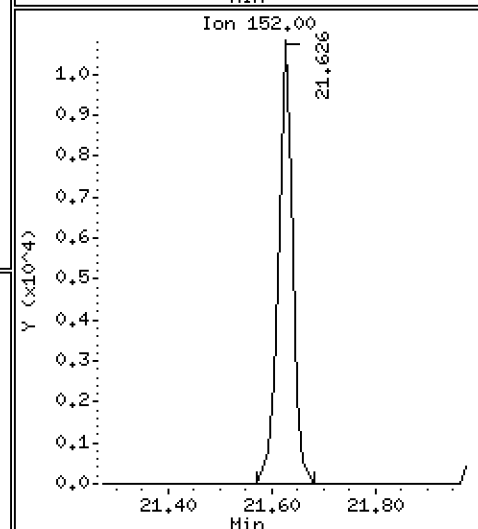
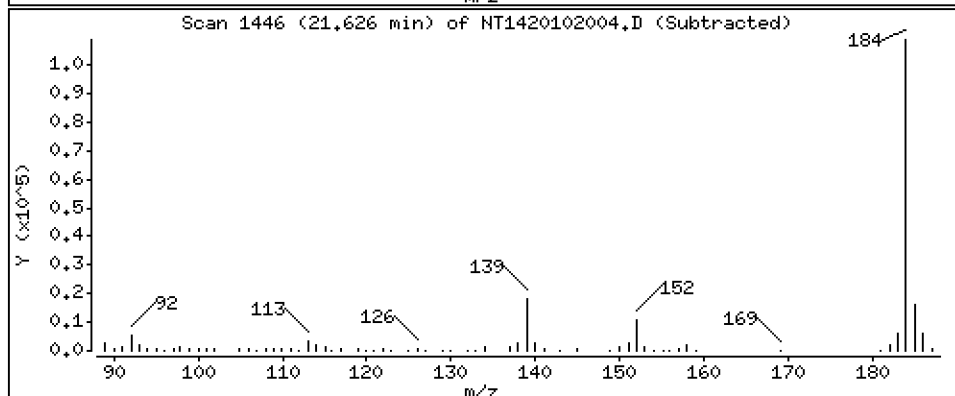
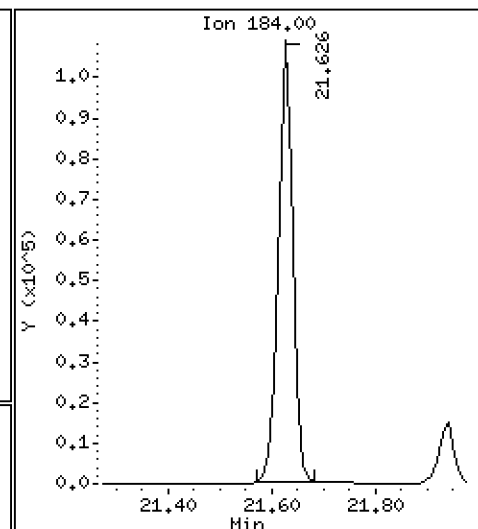
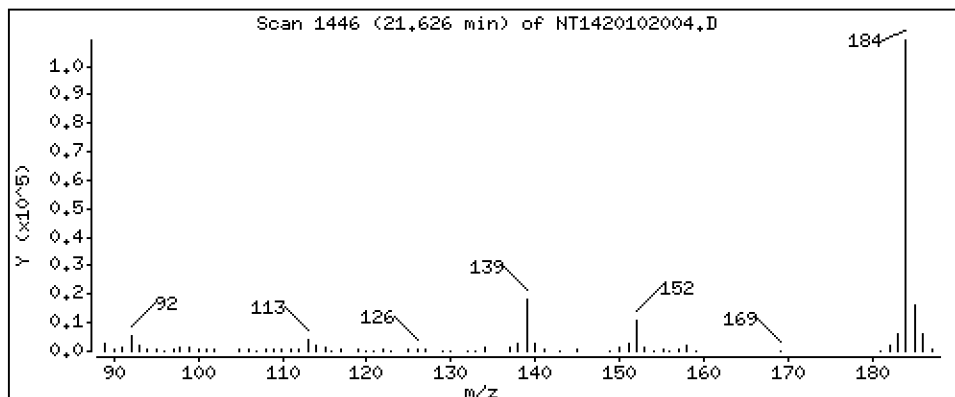
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Dibenzothiophene

Concentration: 1,869 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

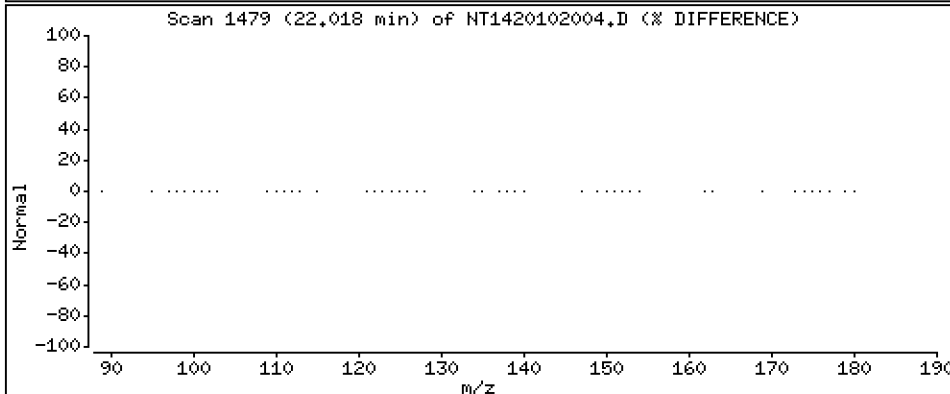
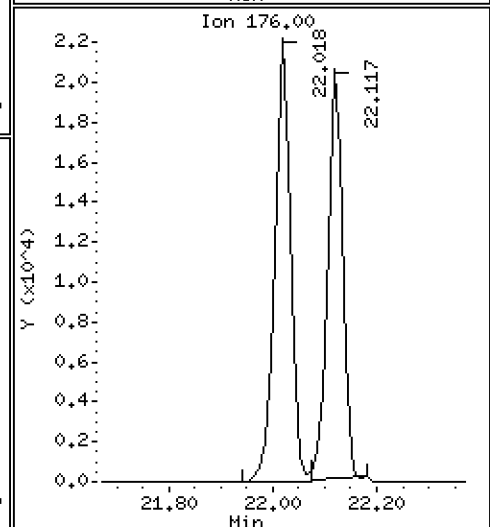
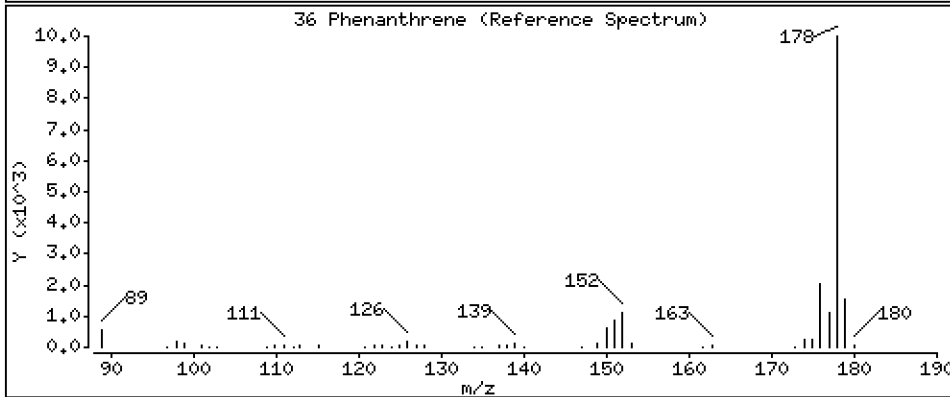
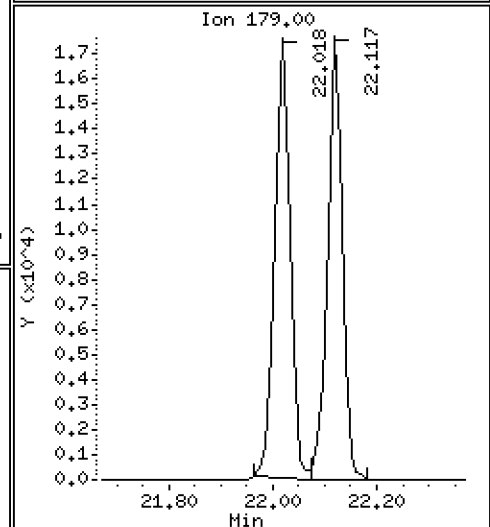
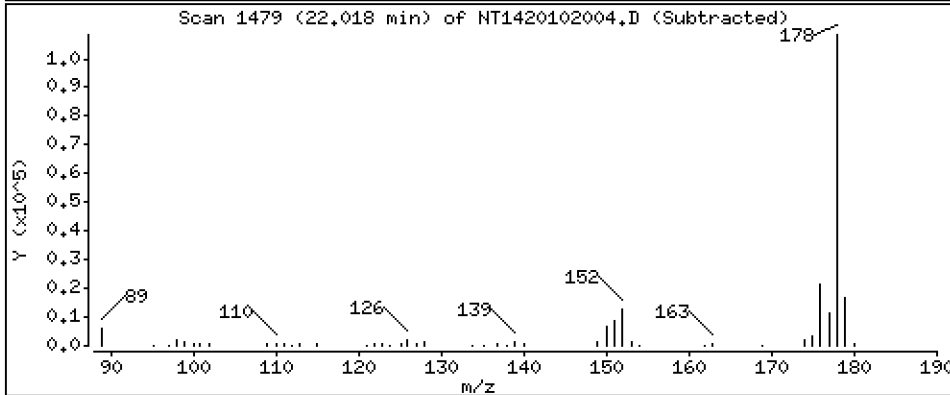
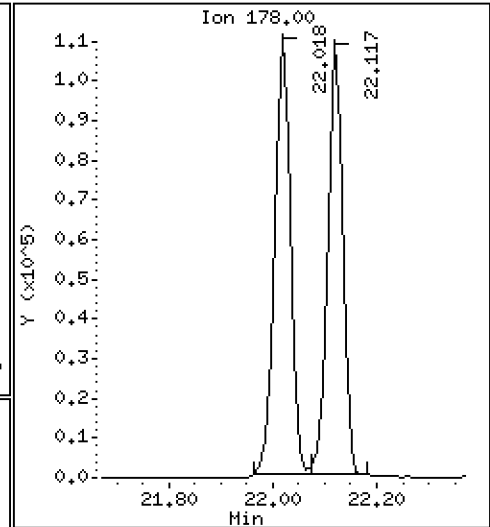
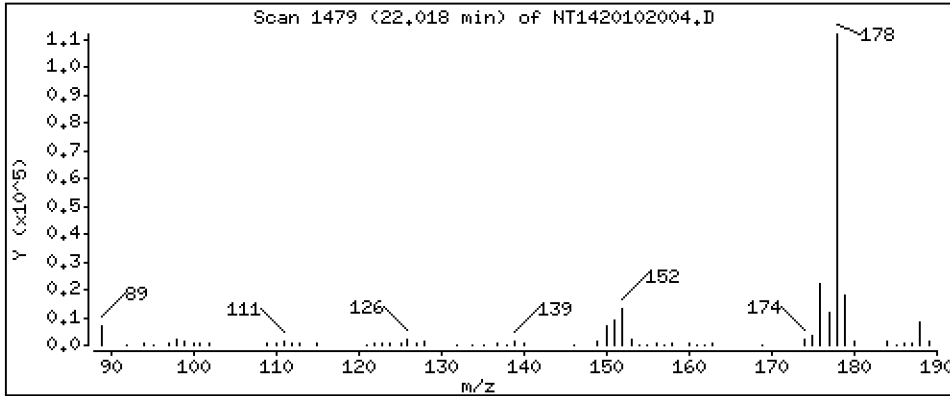
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

36 Phenanthrene

Concentration: 1,967 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

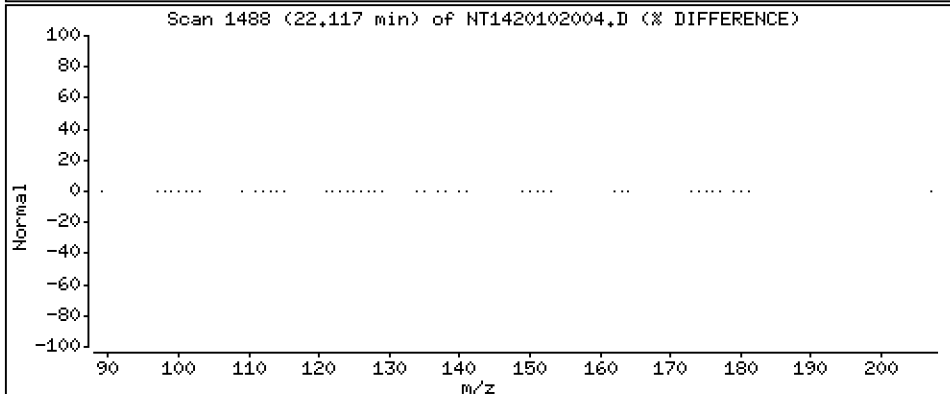
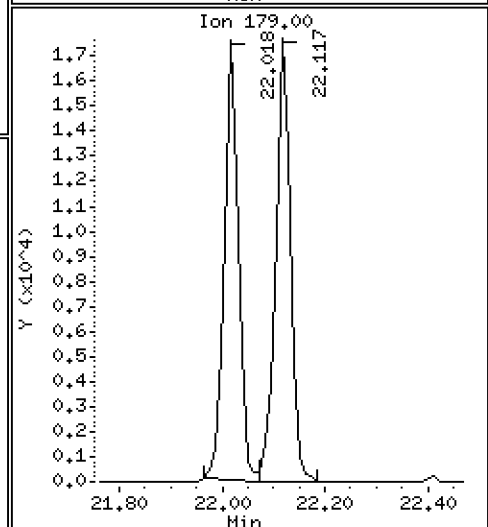
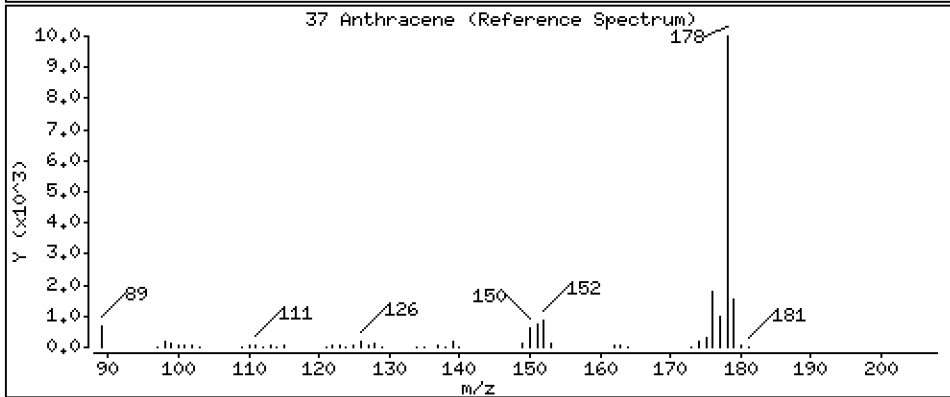
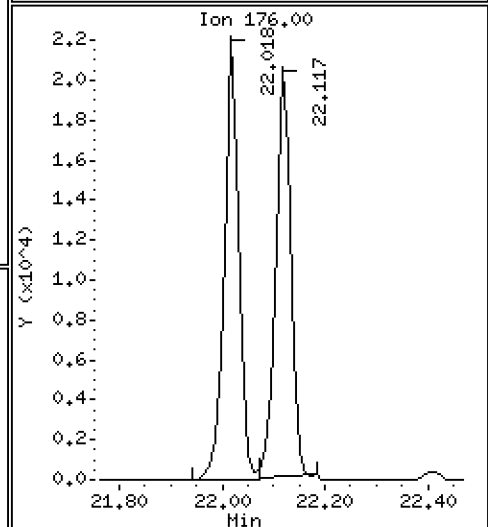
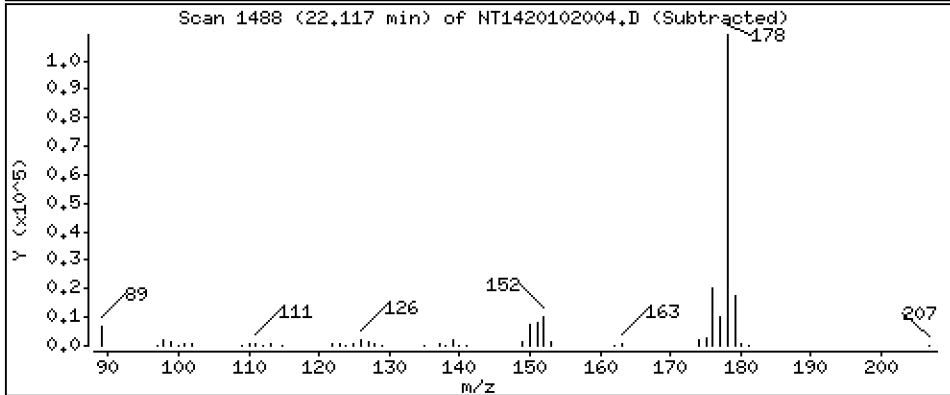
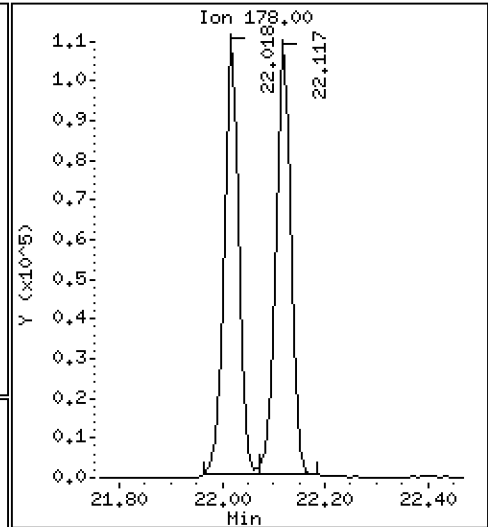
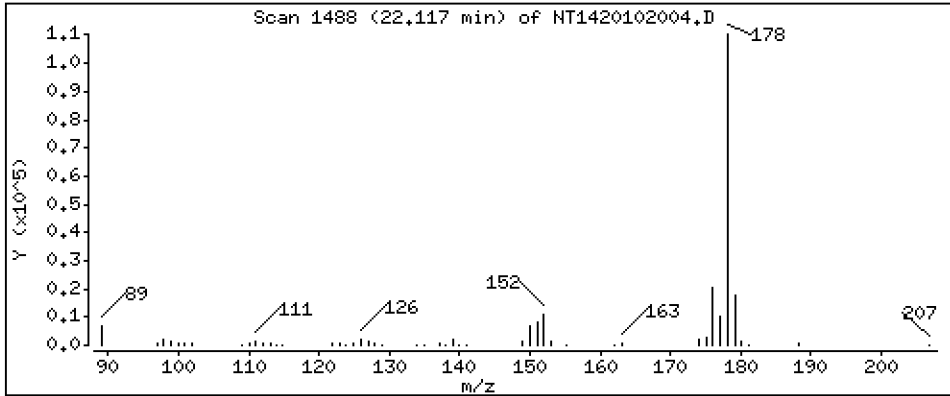
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 1,874 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

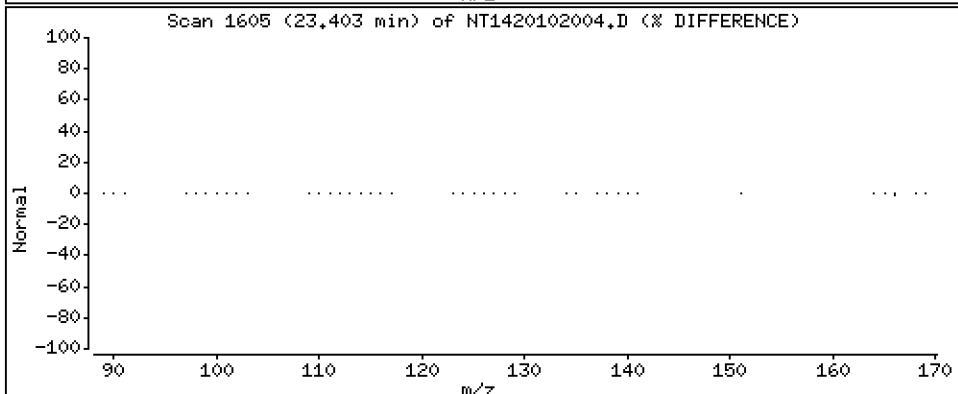
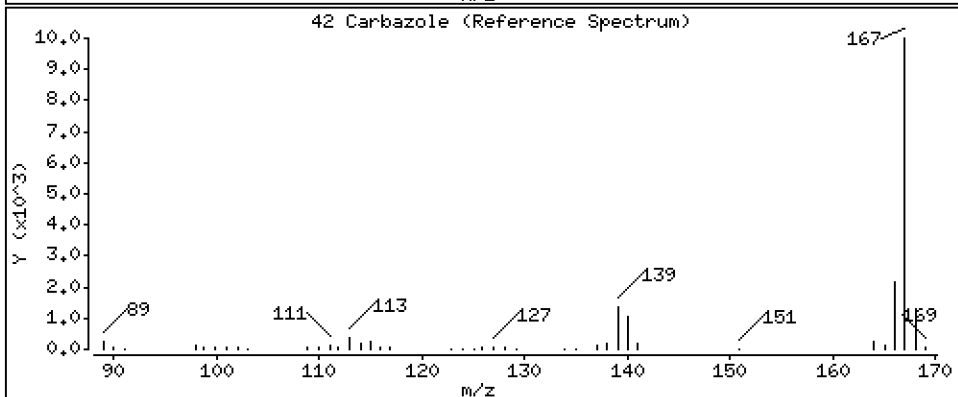
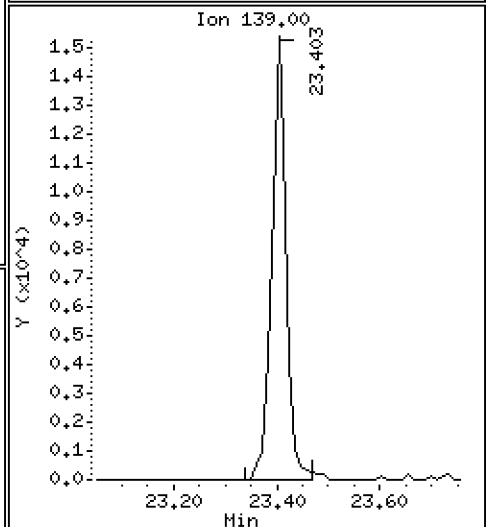
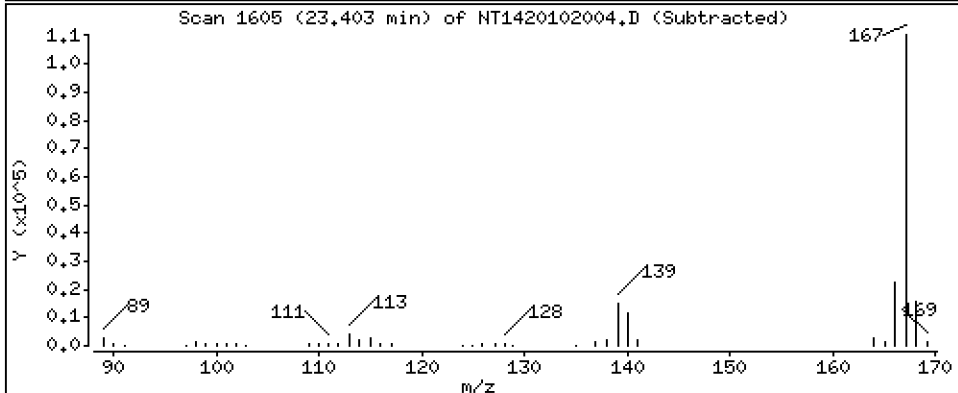
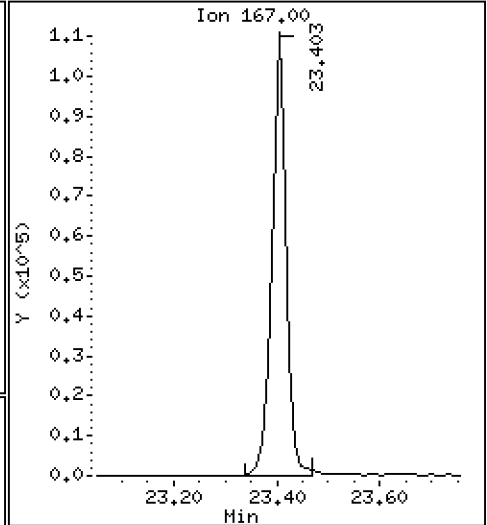
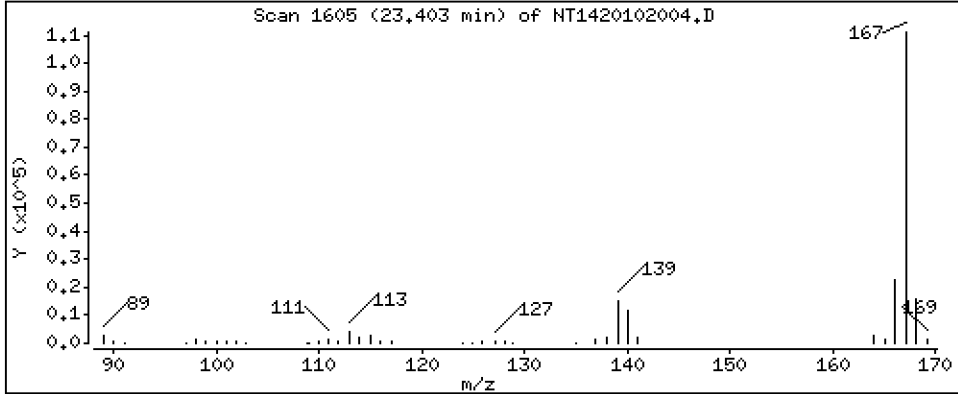
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 2,255 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

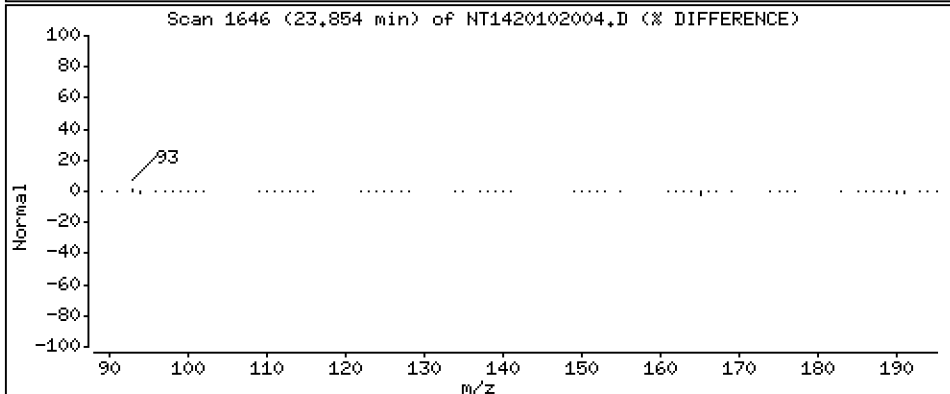
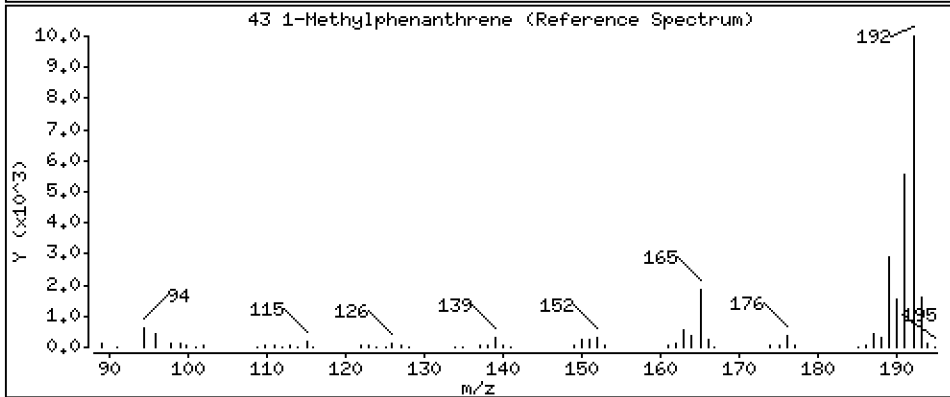
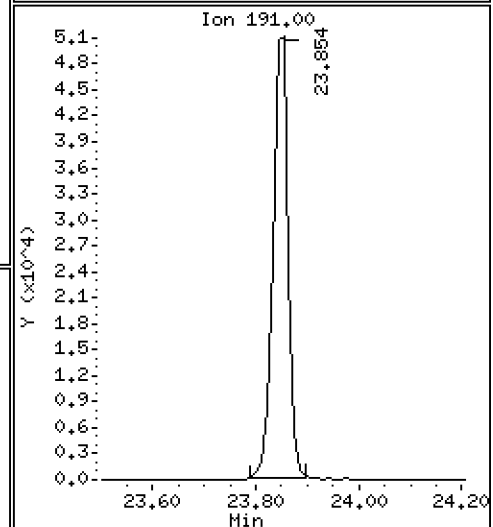
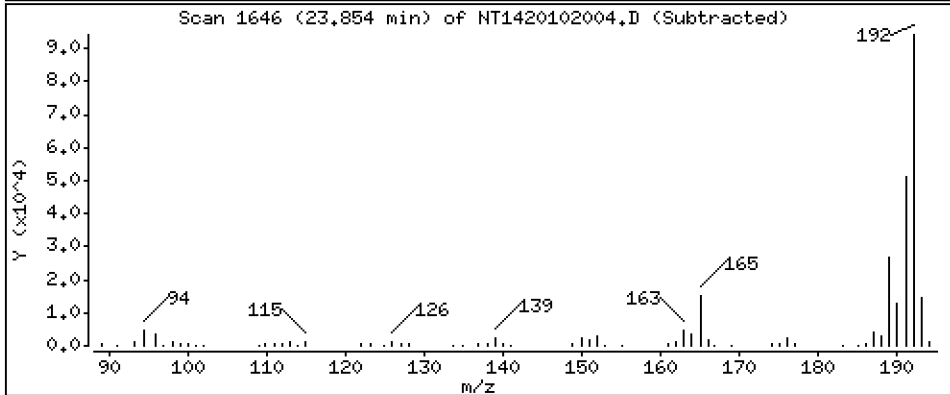
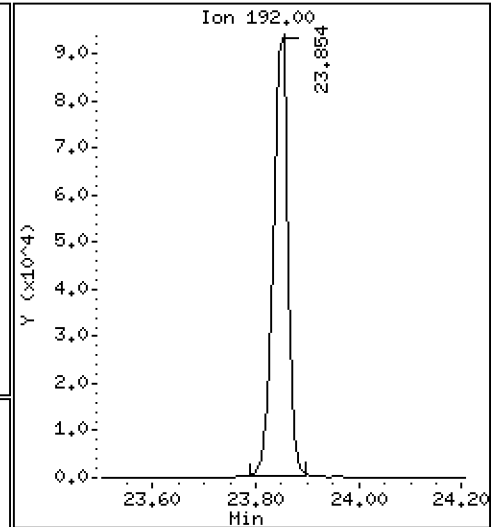
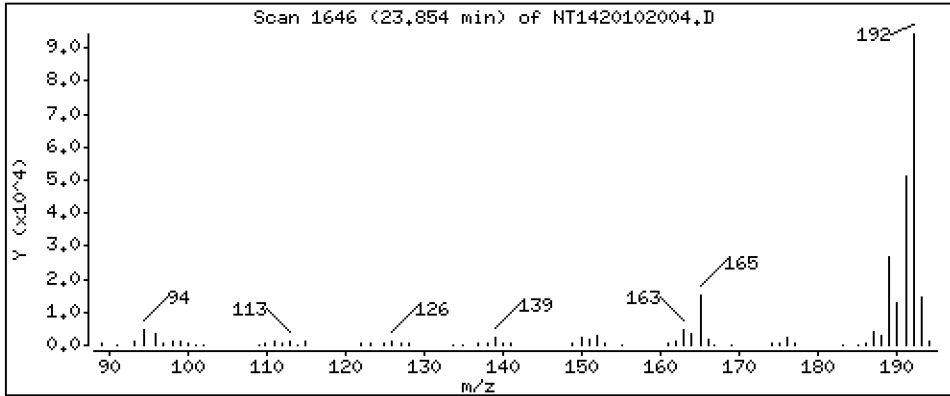
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

43 1-Methylphenanthrene

Concentration: 2,275 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

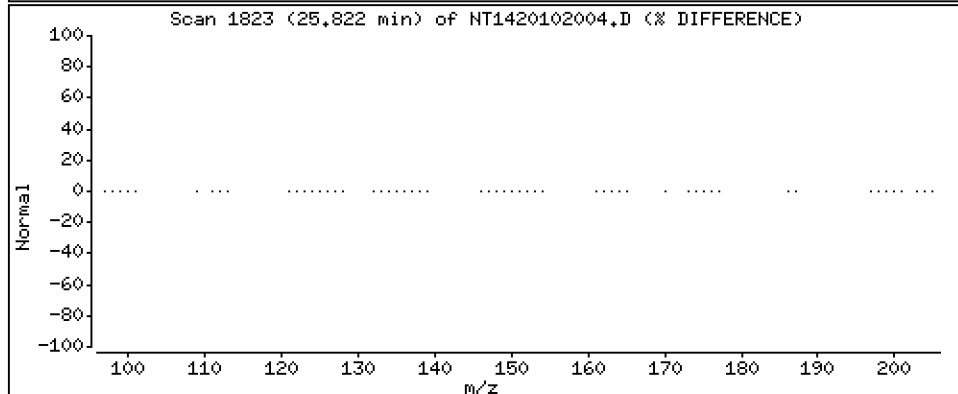
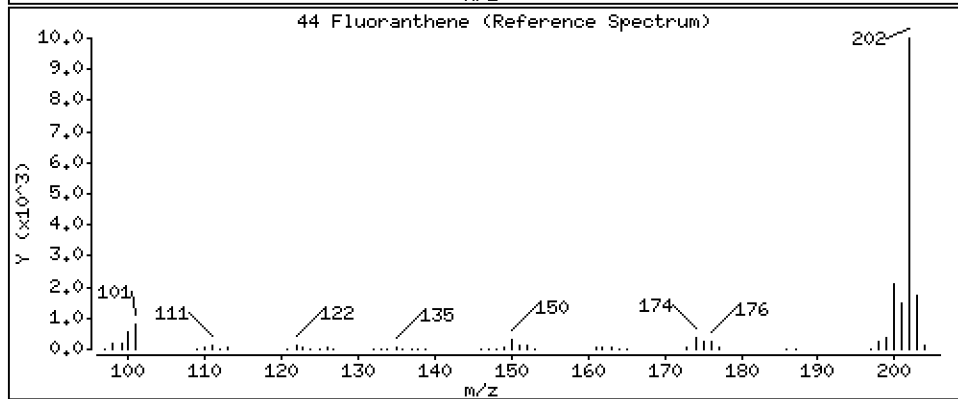
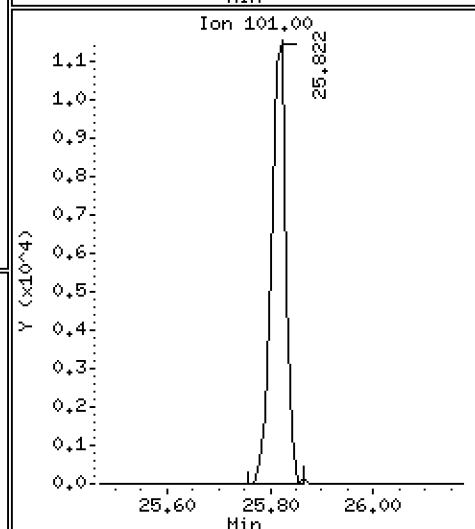
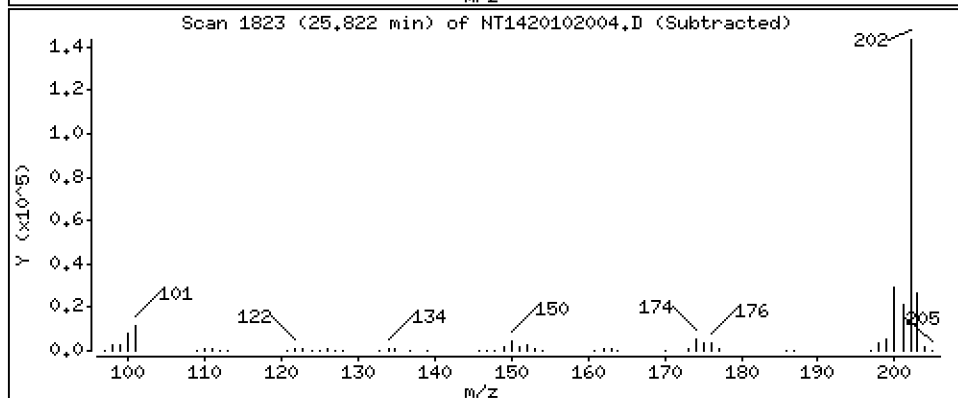
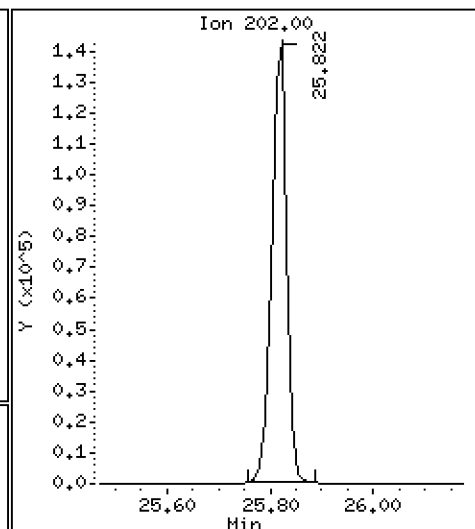
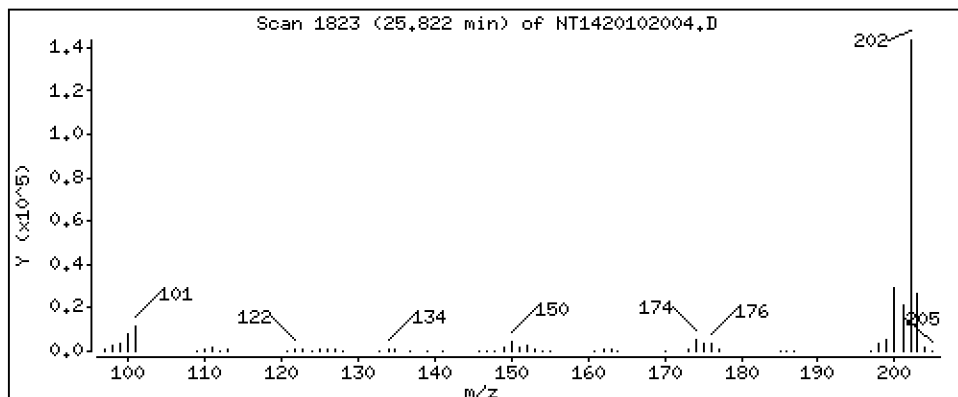
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 2,337 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

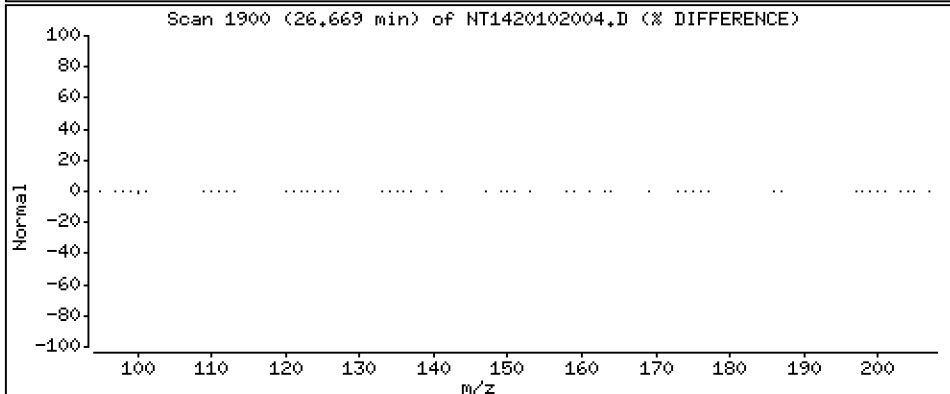
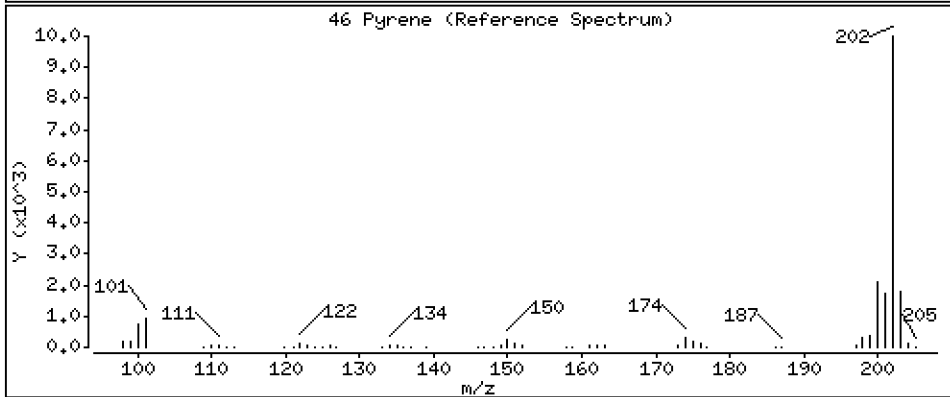
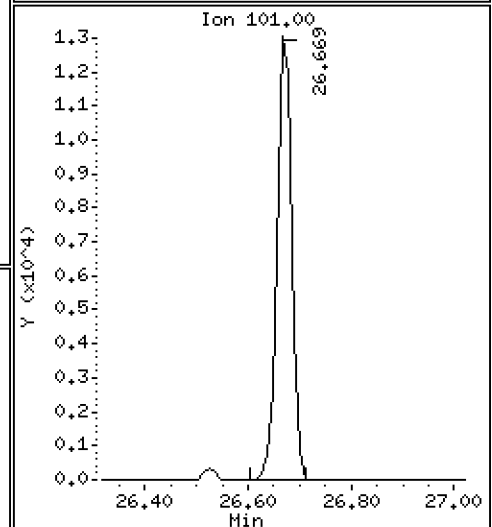
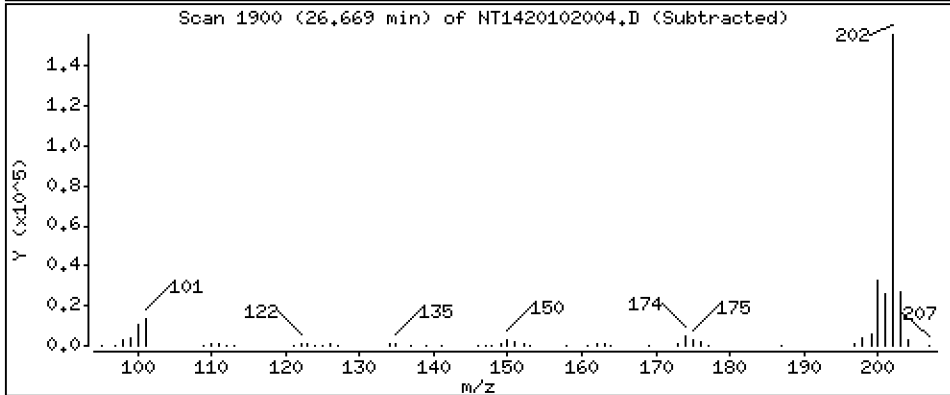
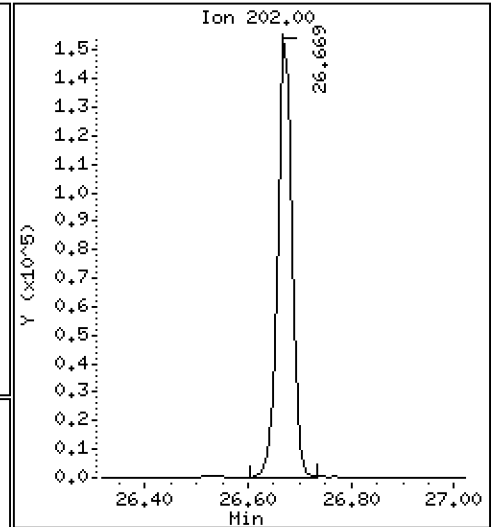
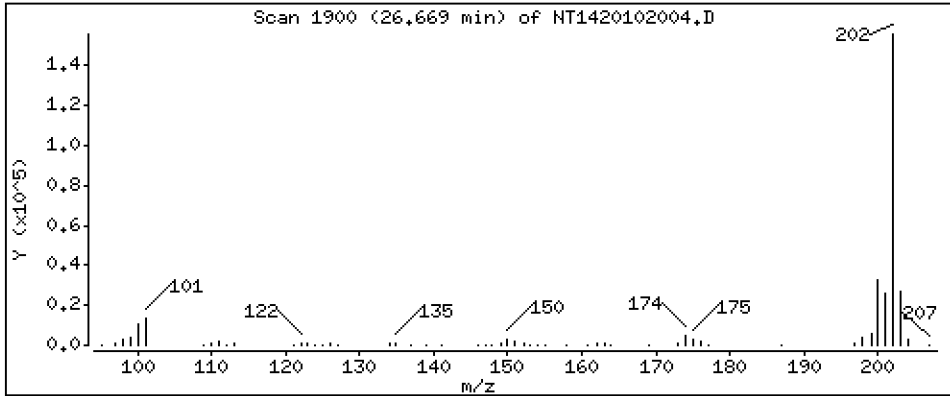
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 2,341 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

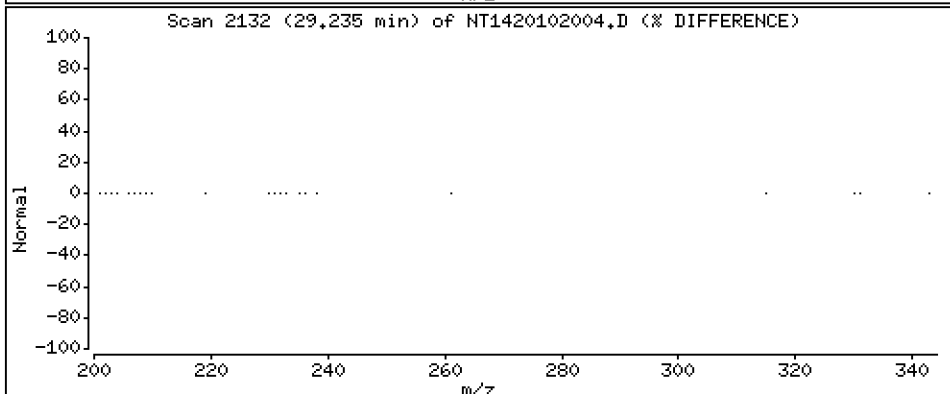
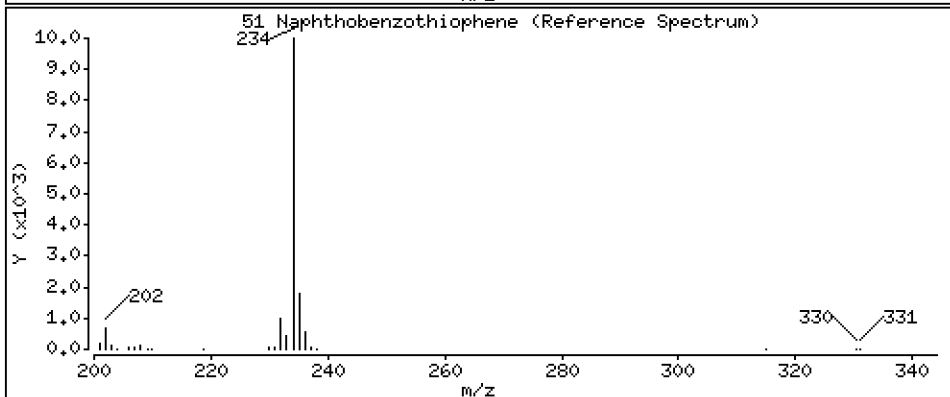
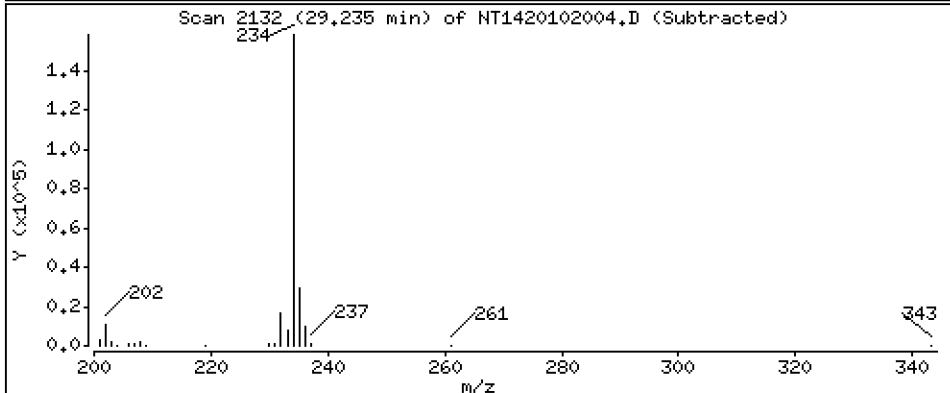
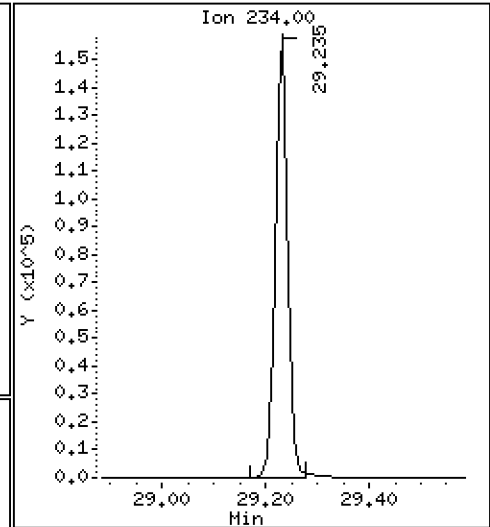
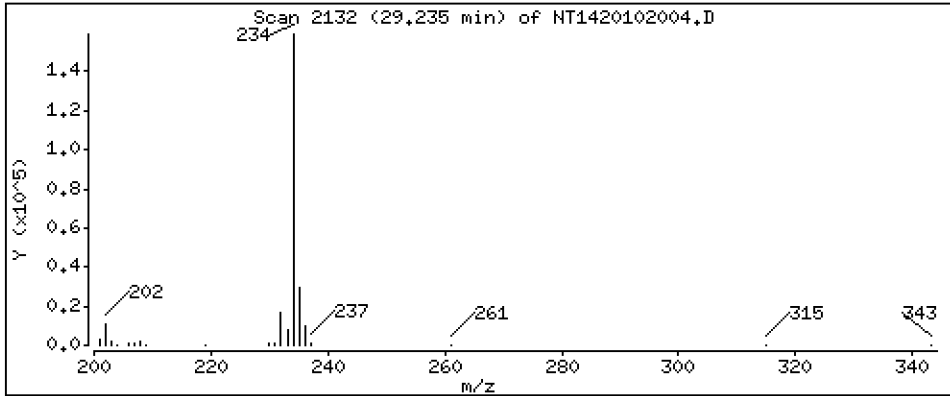
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

51 Naphthobenzothiophene

Concentration: 2,284 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

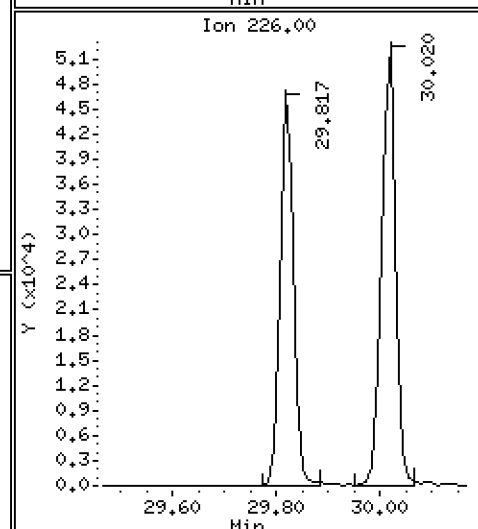
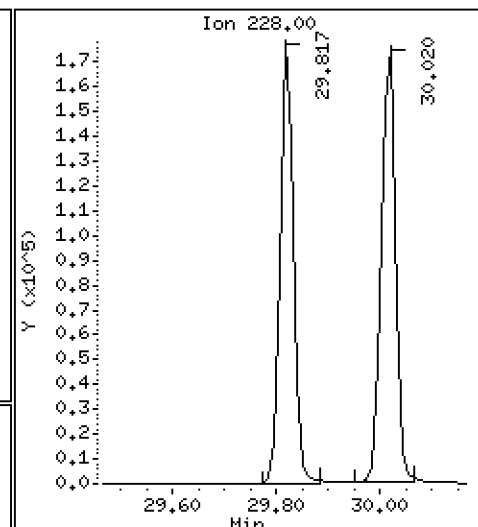
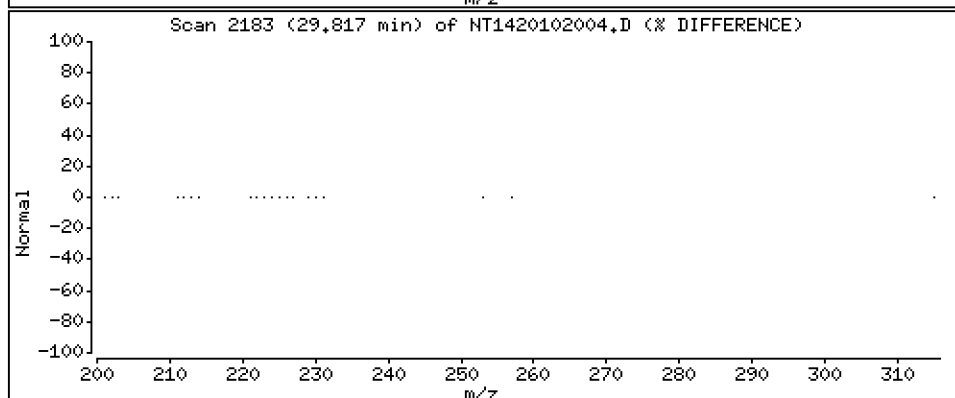
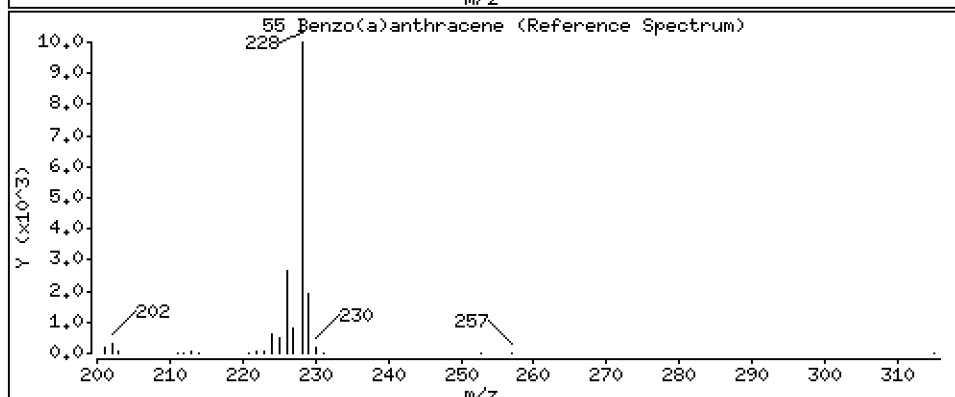
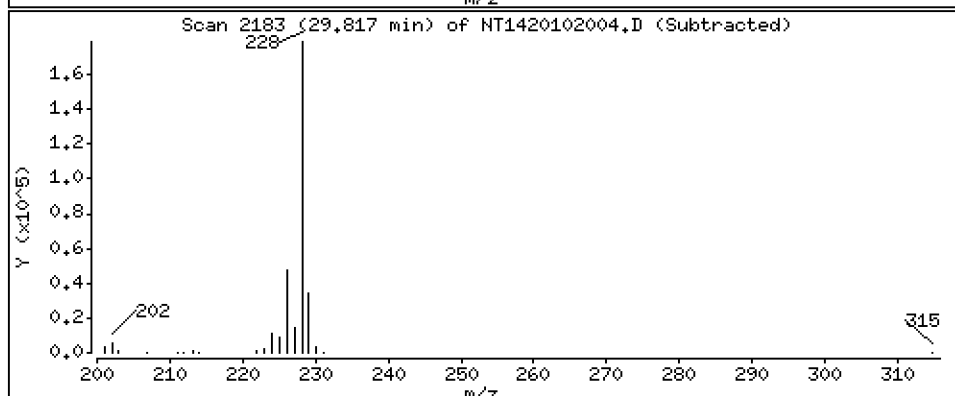
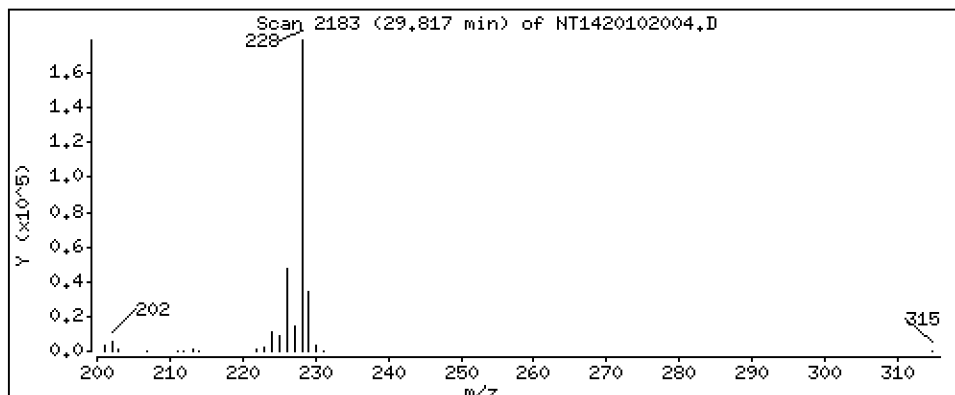
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 2,312 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

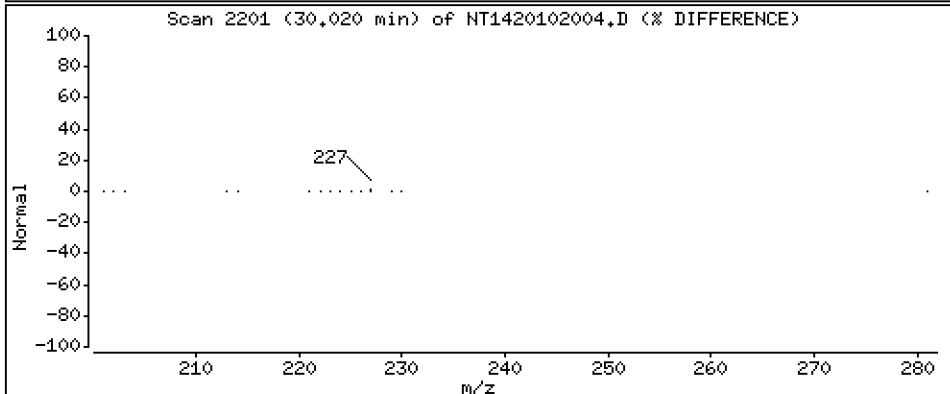
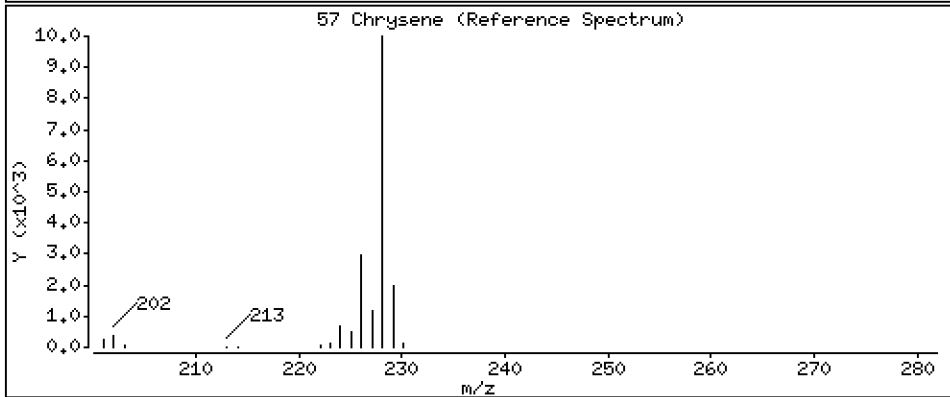
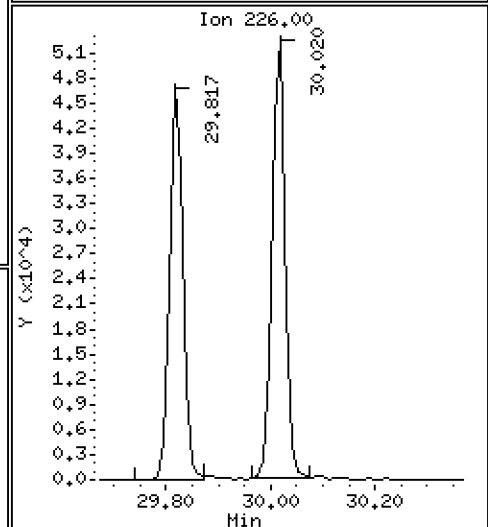
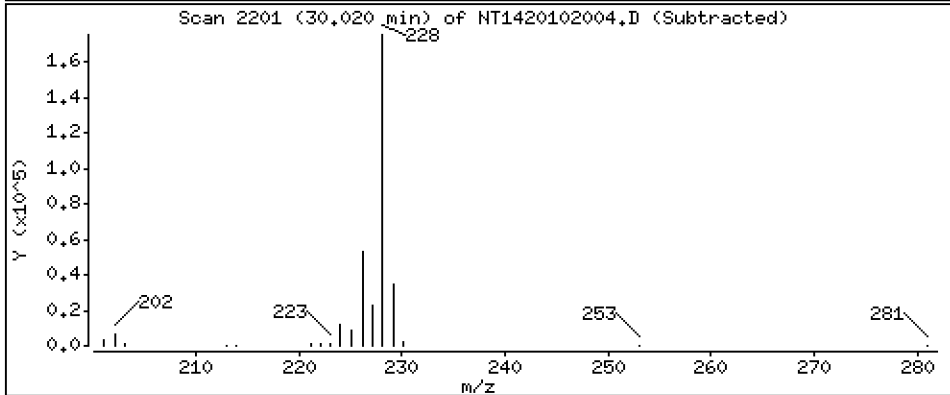
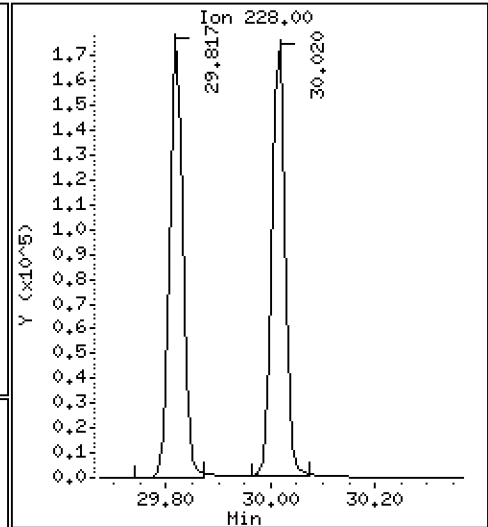
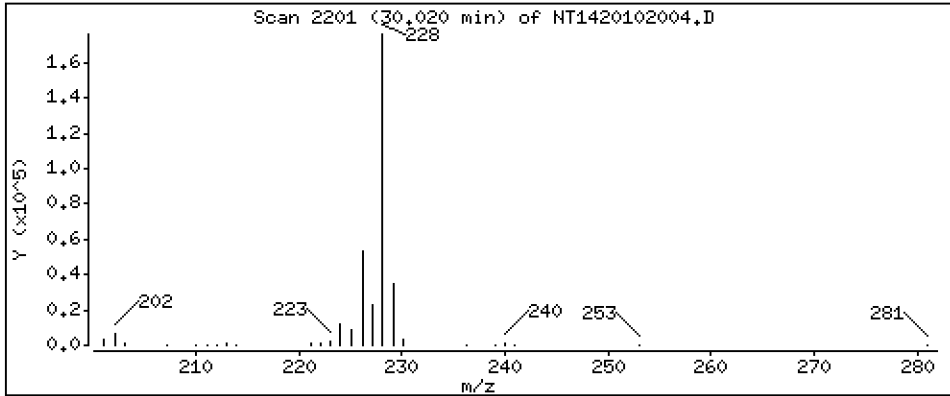
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 2,312 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

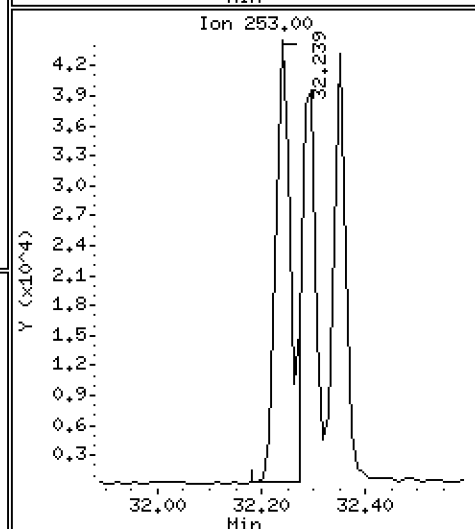
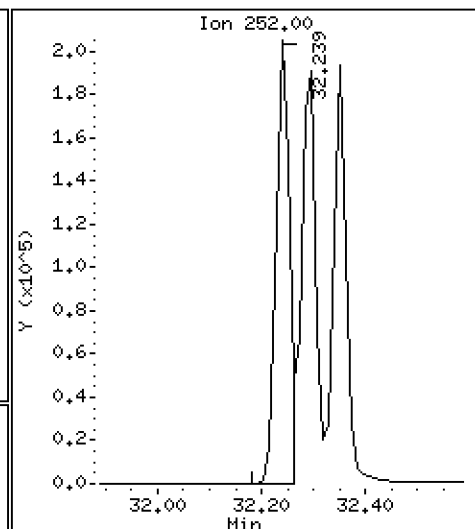
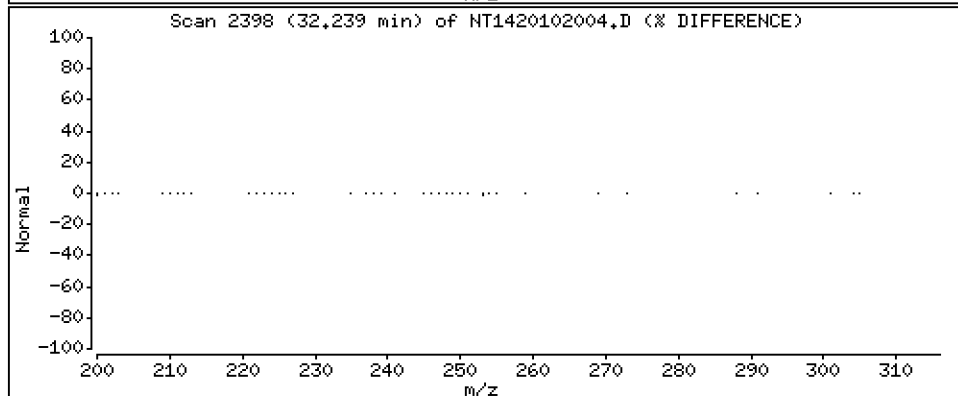
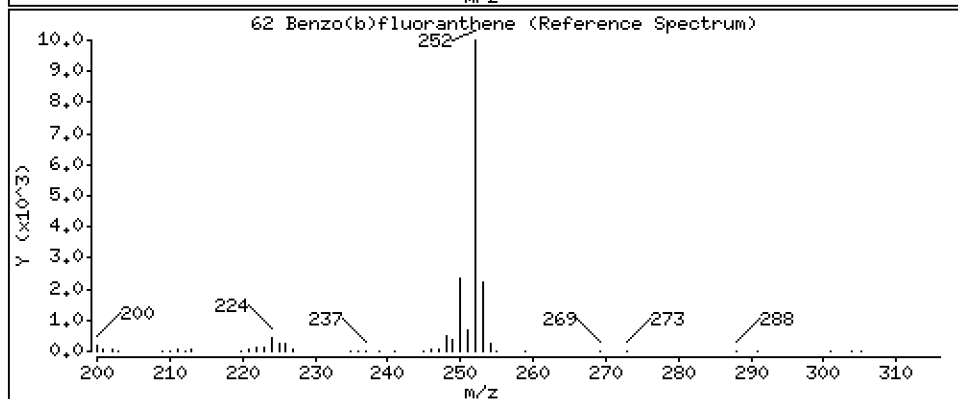
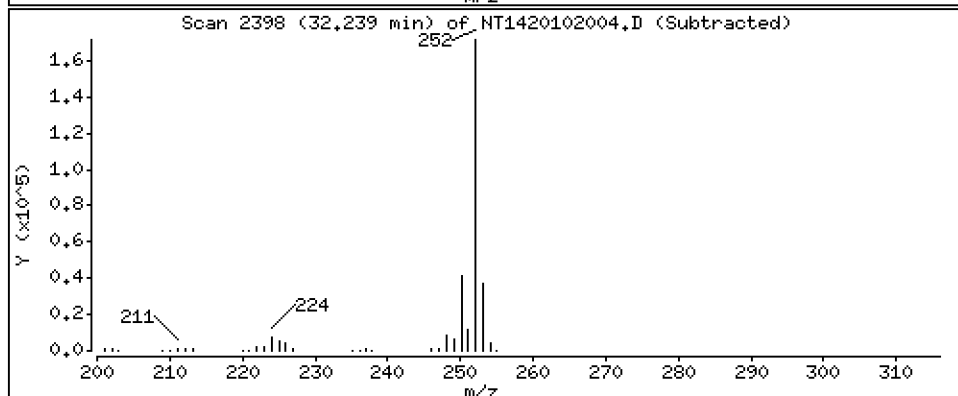
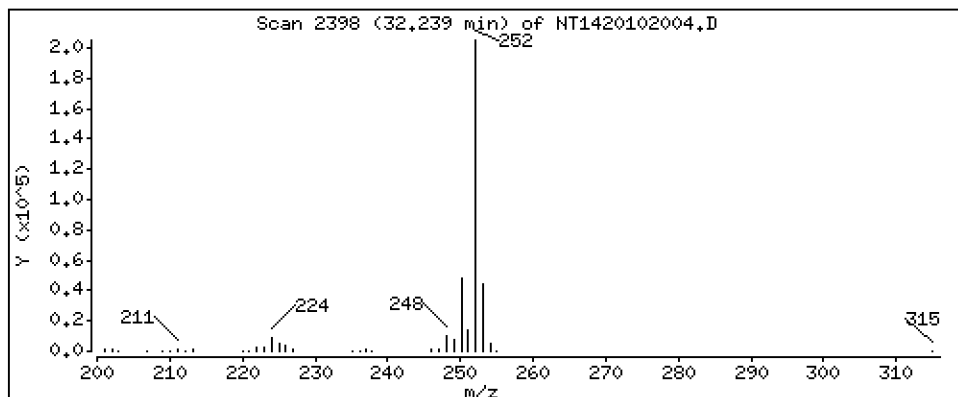
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 2,230 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

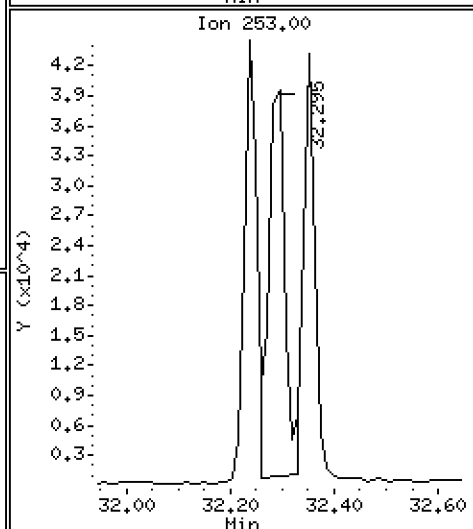
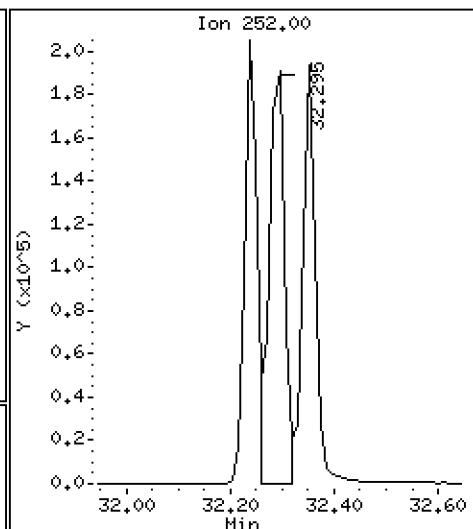
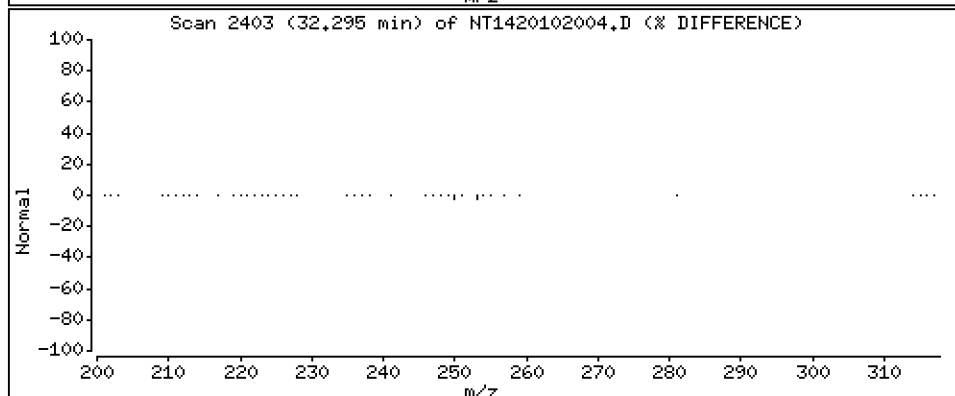
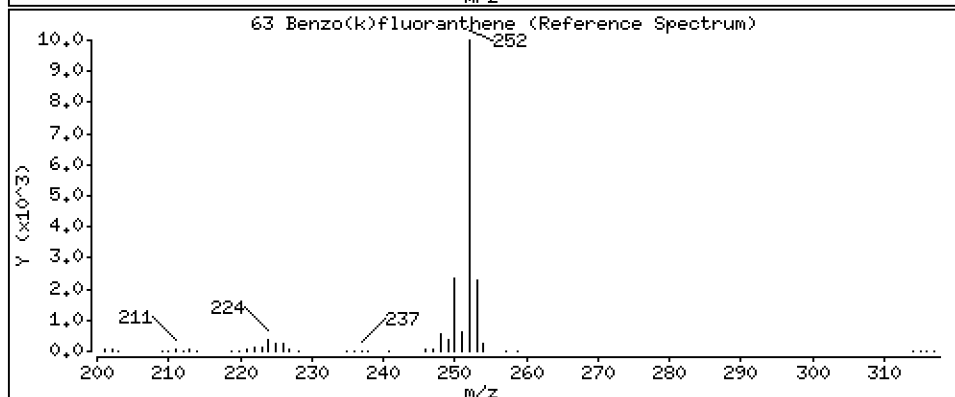
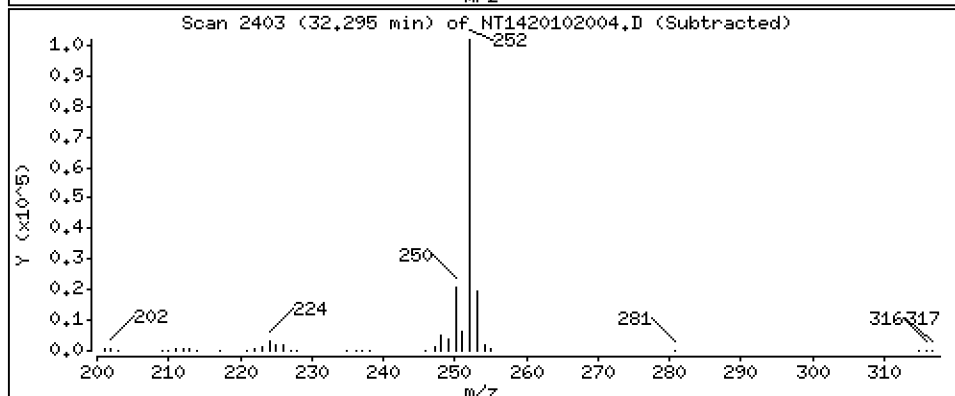
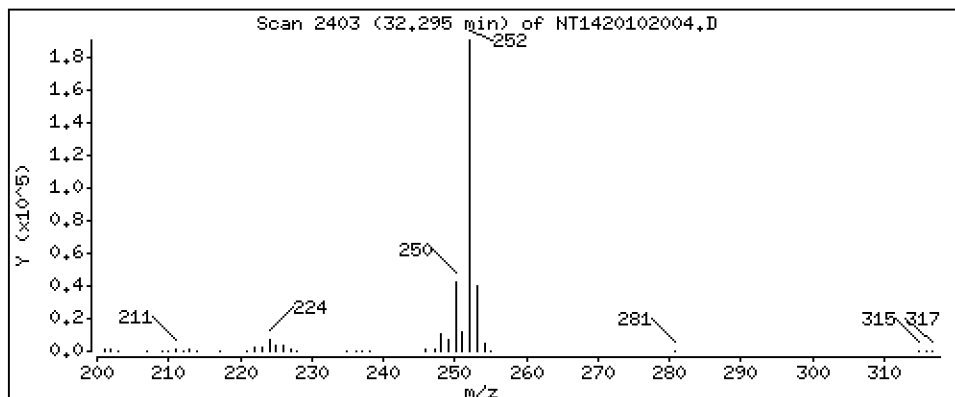
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 2,455 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

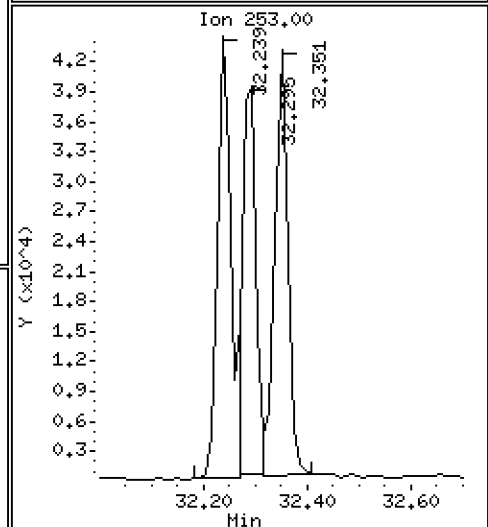
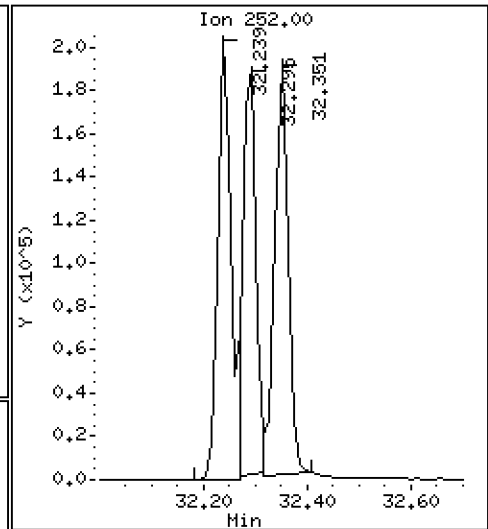
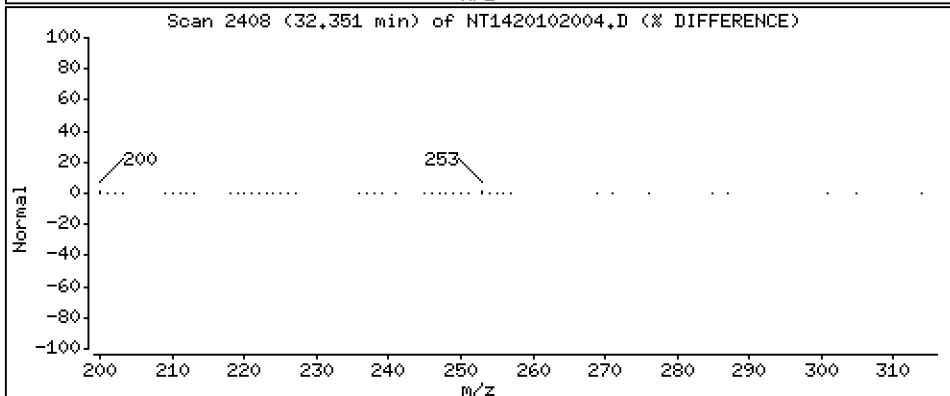
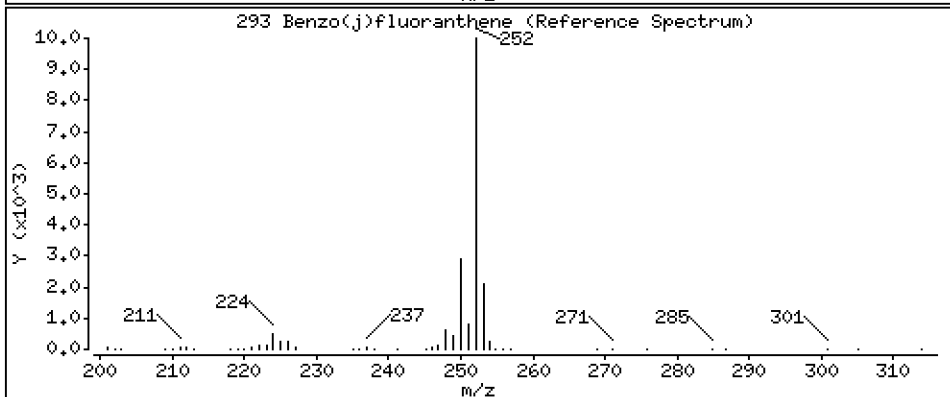
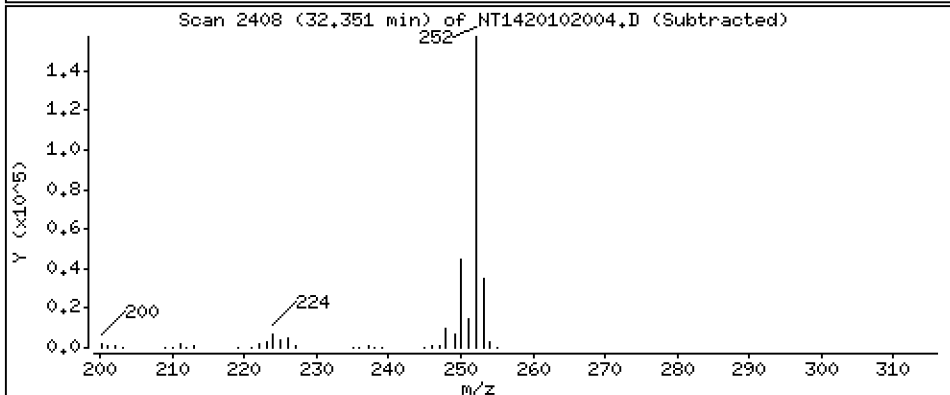
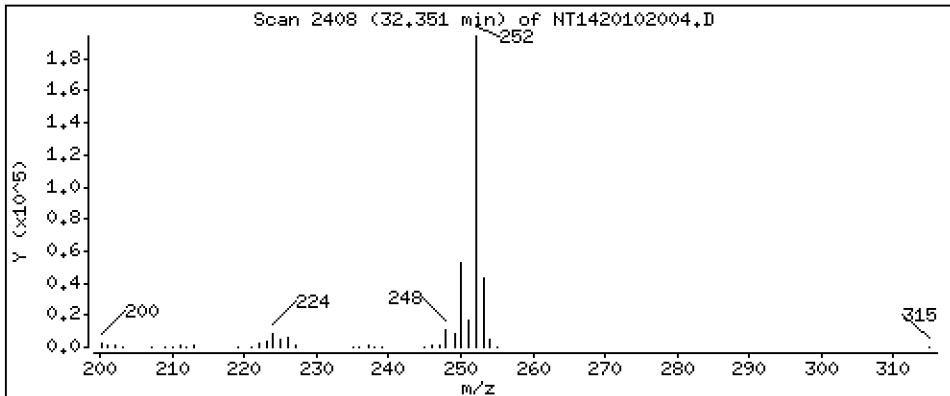
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

293 Benzo(j)fluoranthene

Concentration: 2,374 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

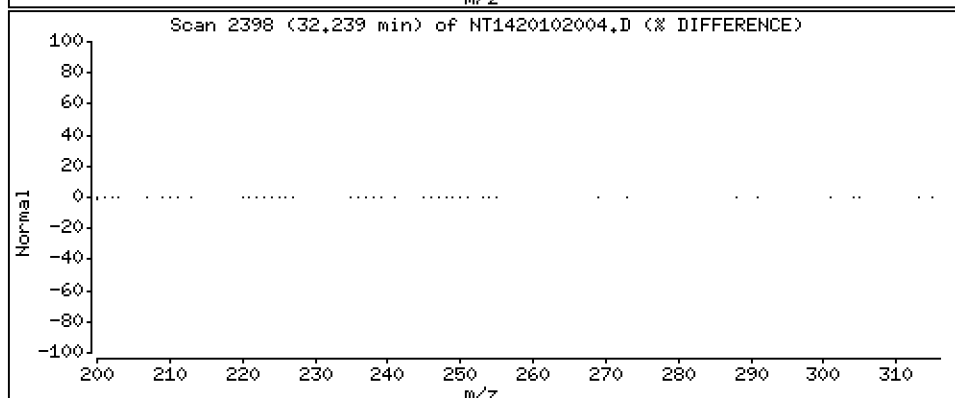
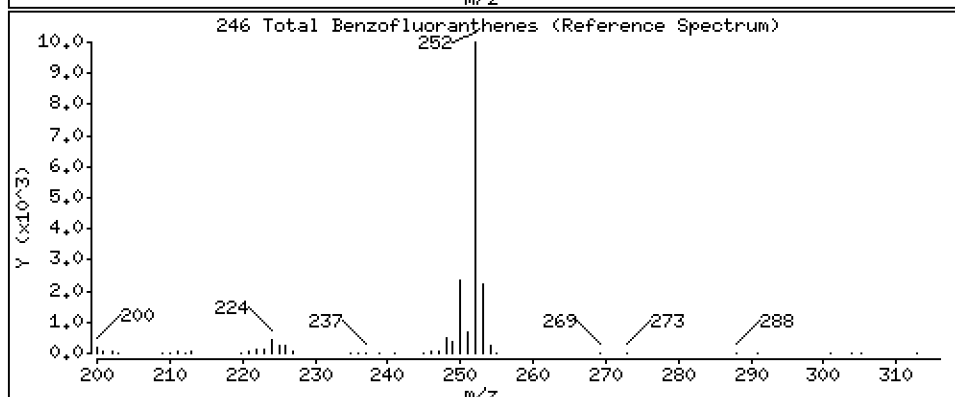
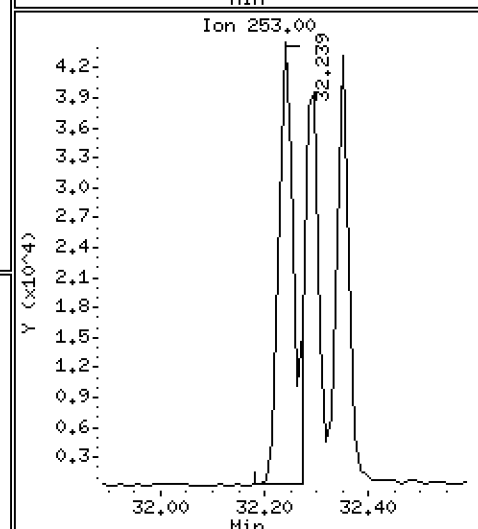
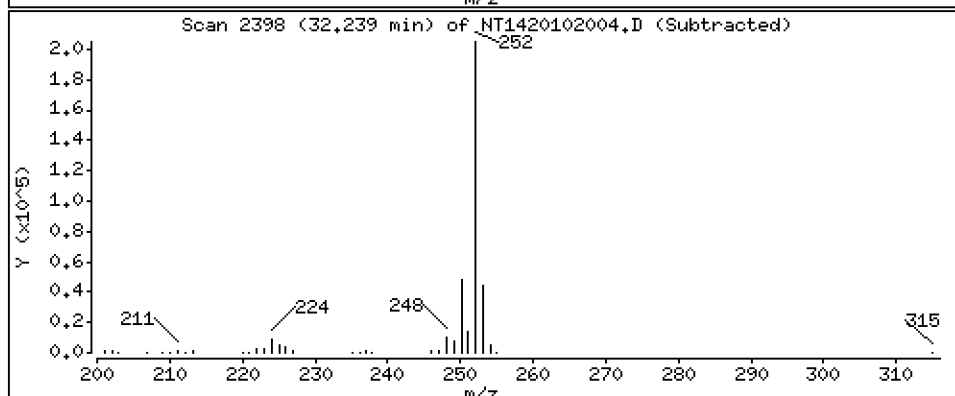
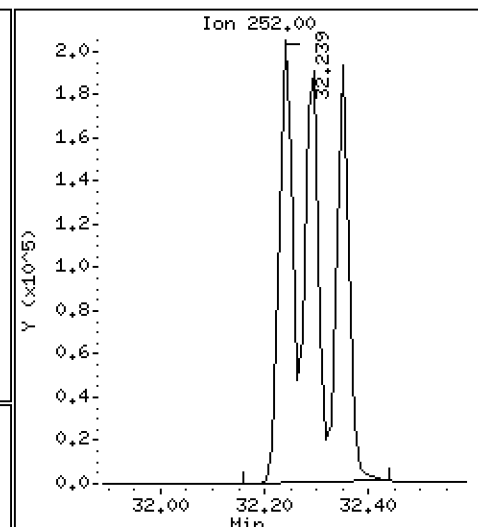
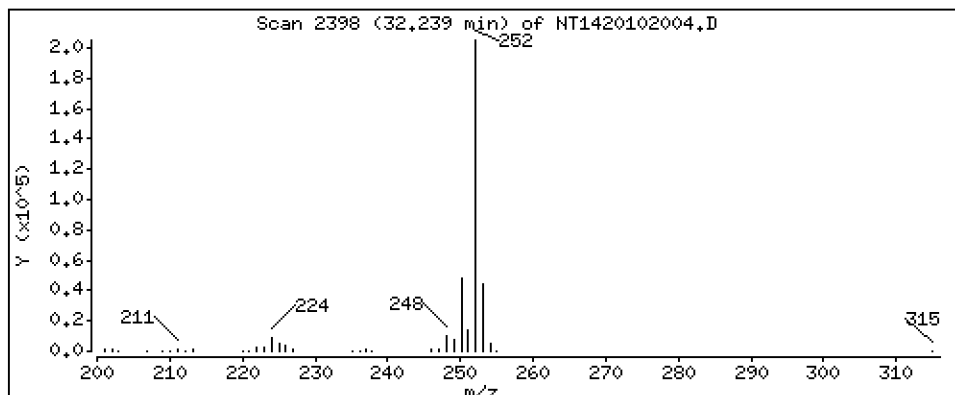
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 7,035 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

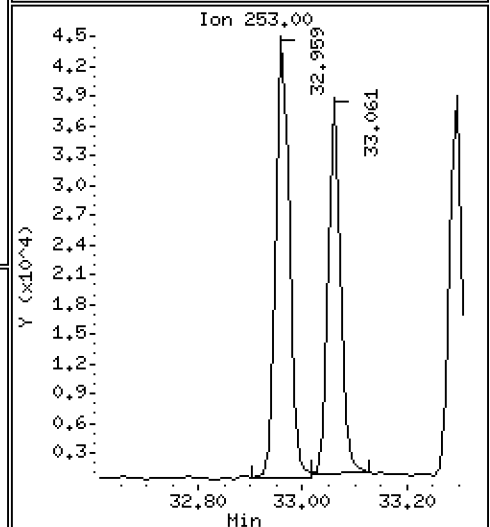
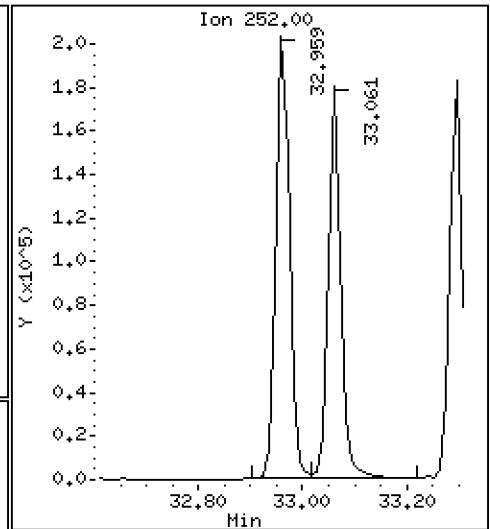
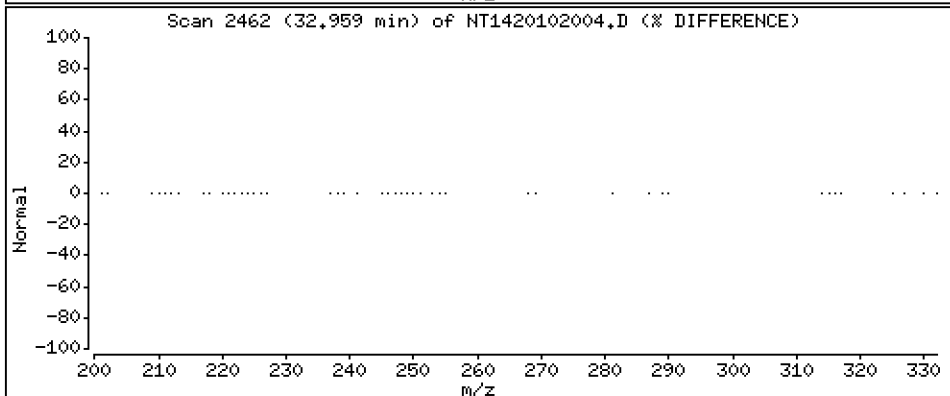
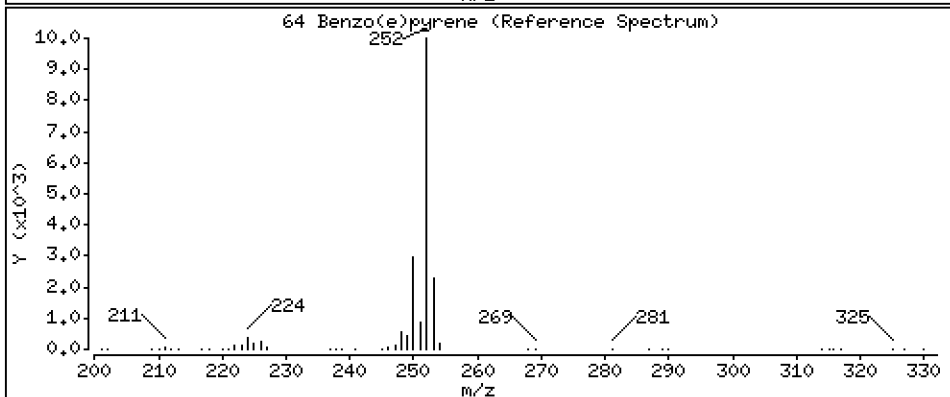
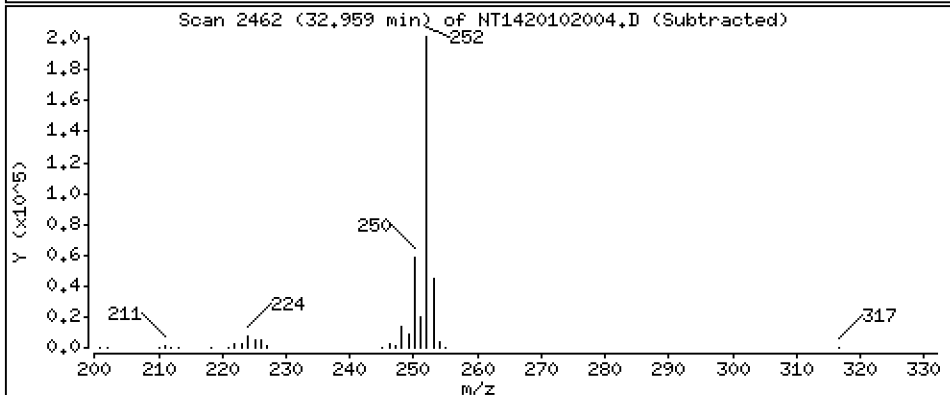
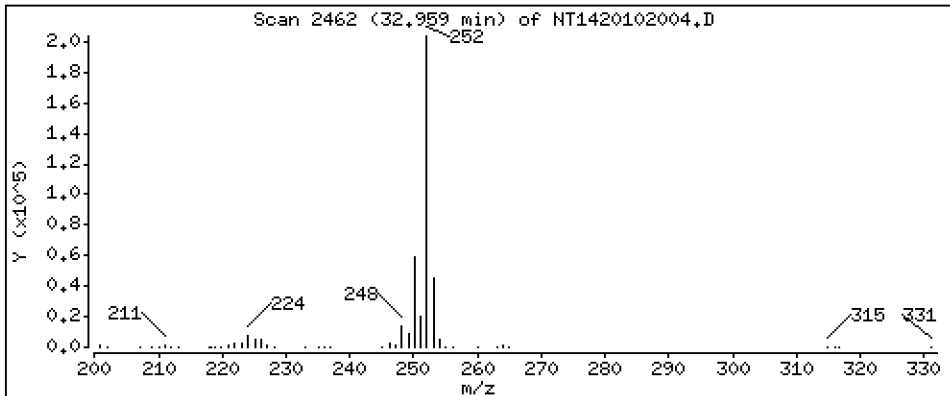
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

64 Benzo(e)pyrene

Concentration: 2,377 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

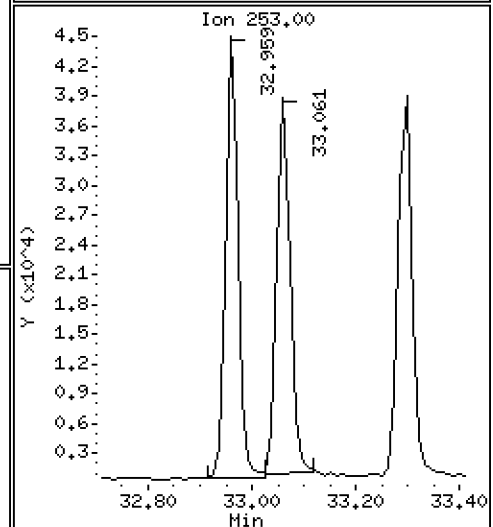
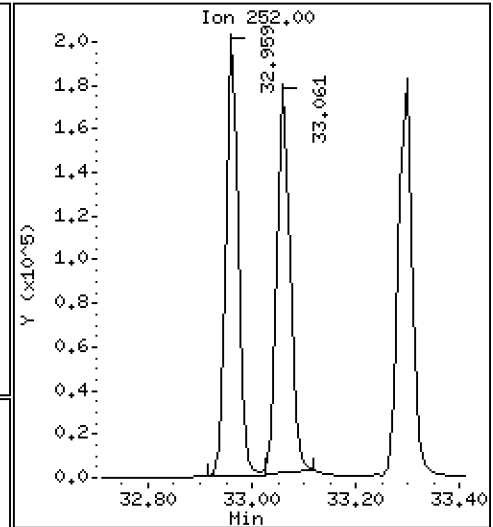
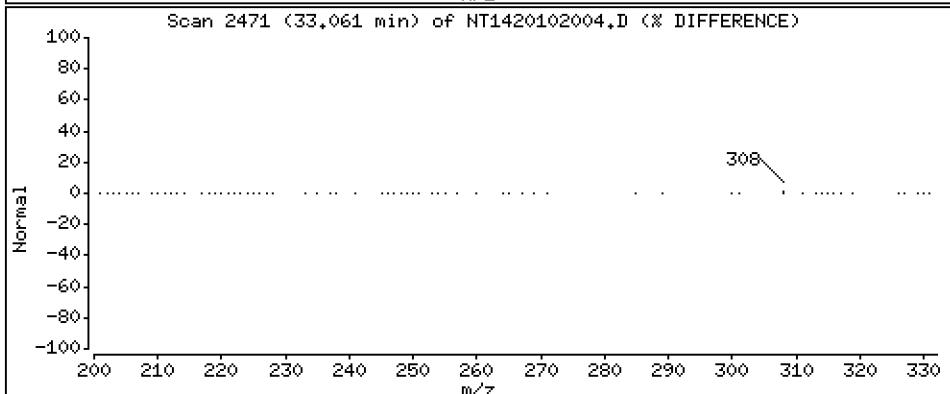
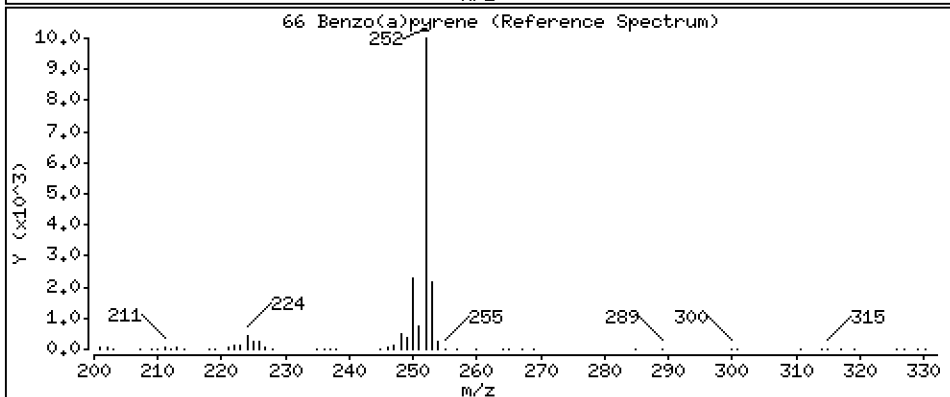
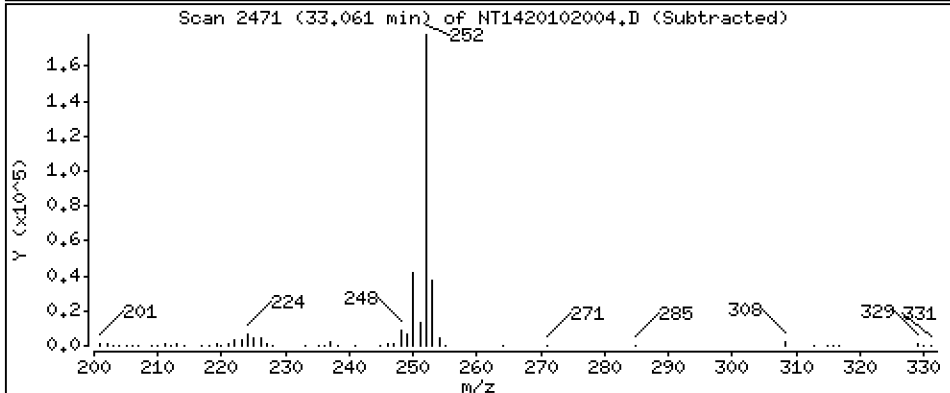
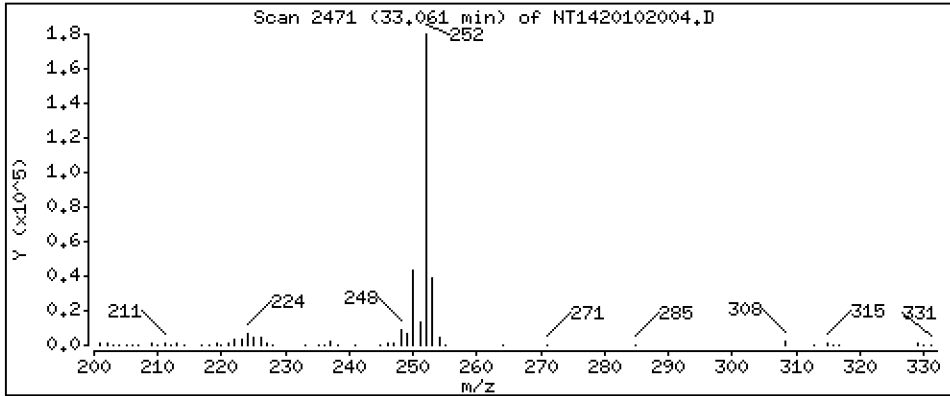
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 2,134 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

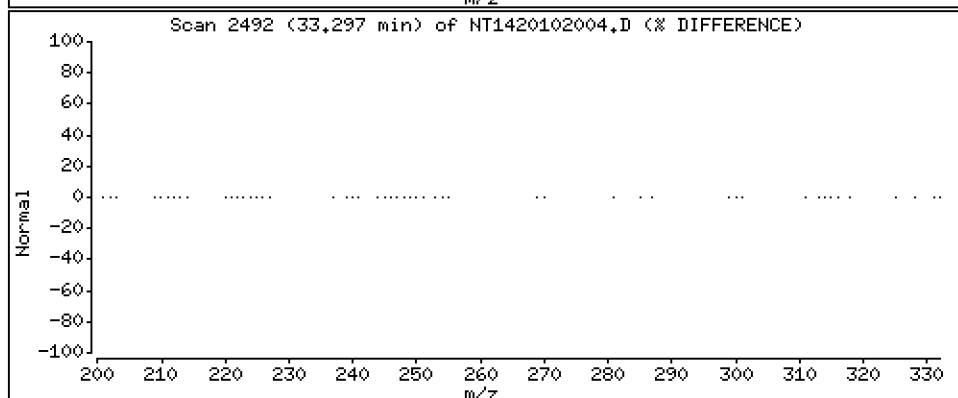
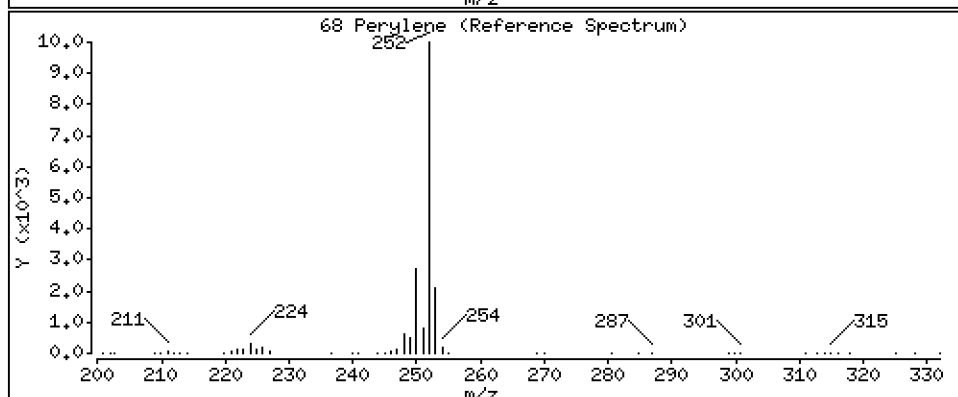
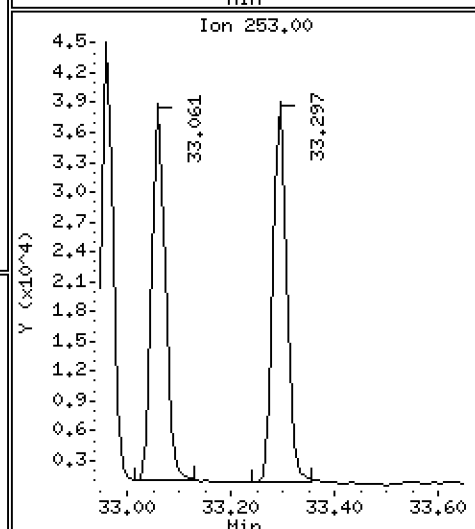
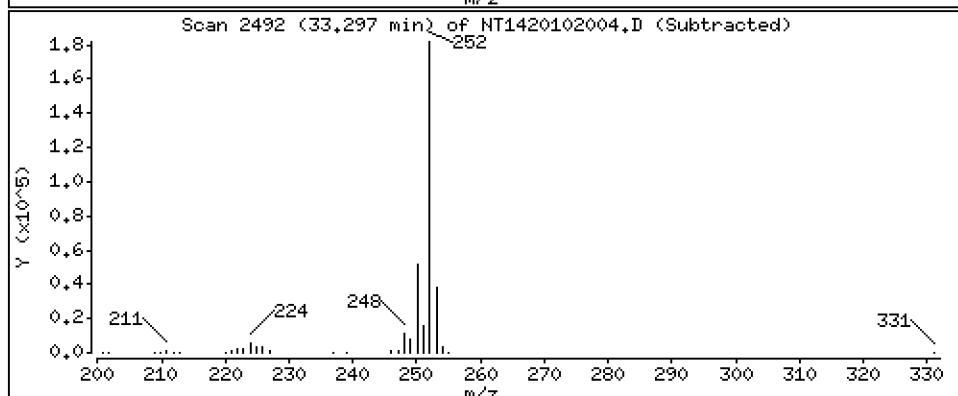
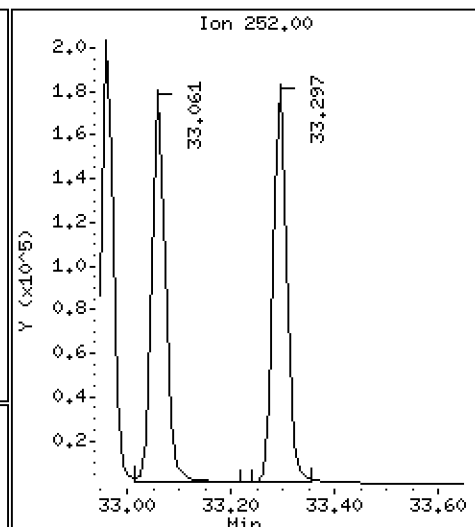
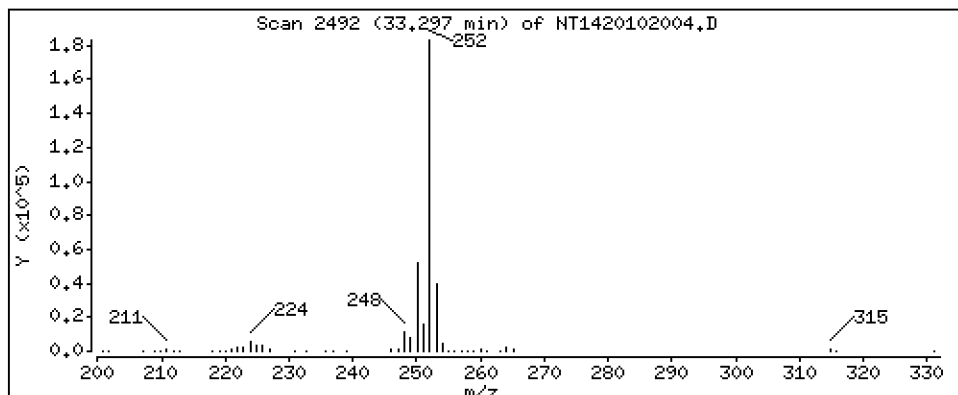
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

68 Perylene

Concentration: 2,158 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

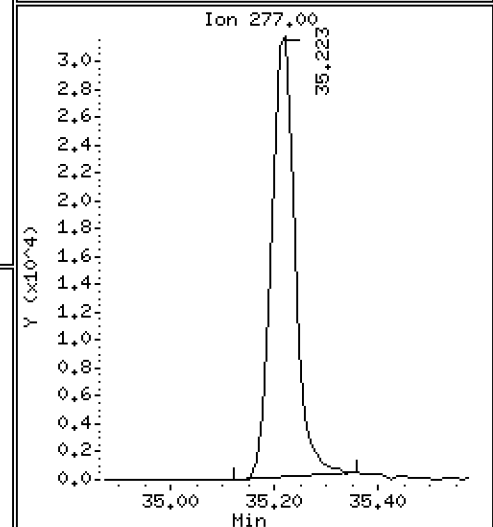
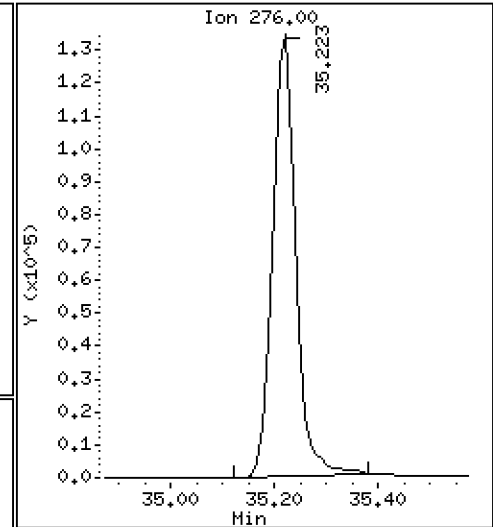
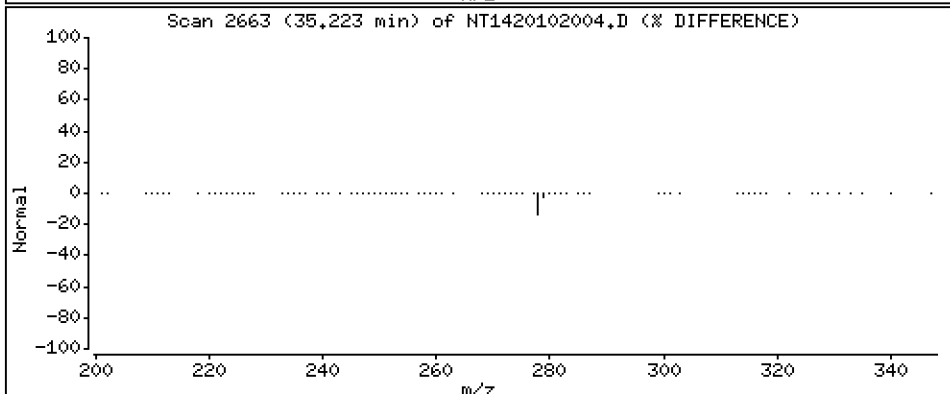
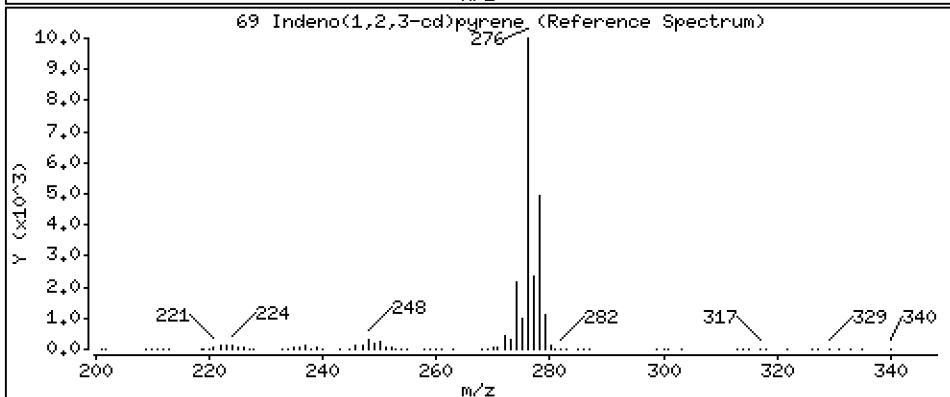
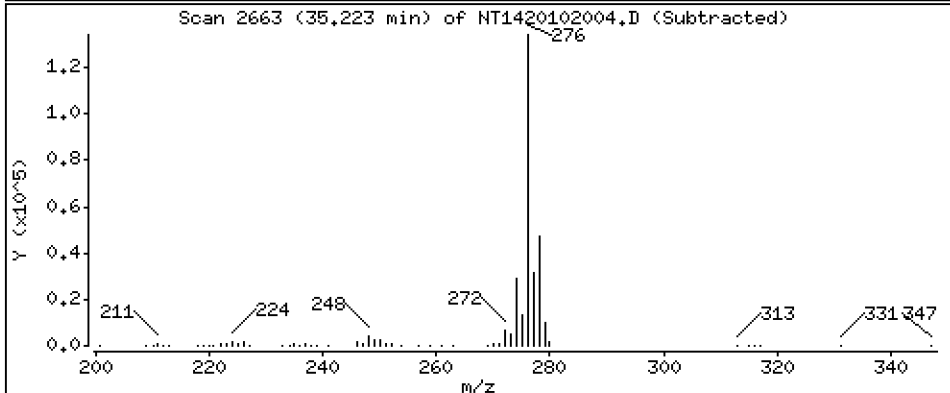
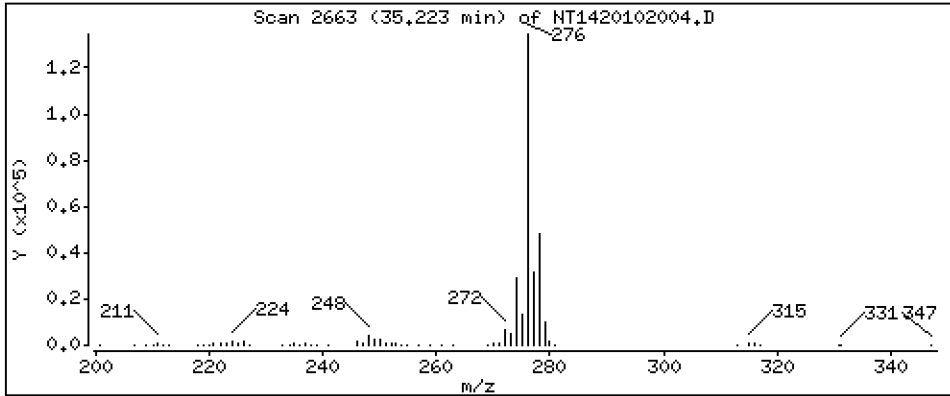
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 2,367 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

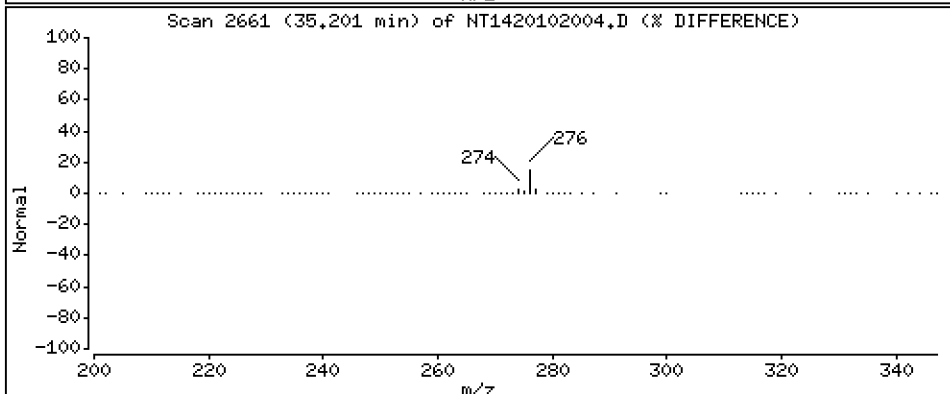
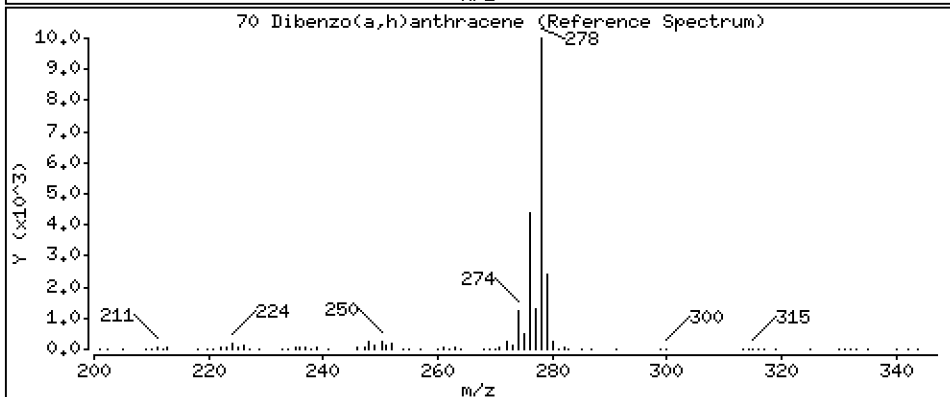
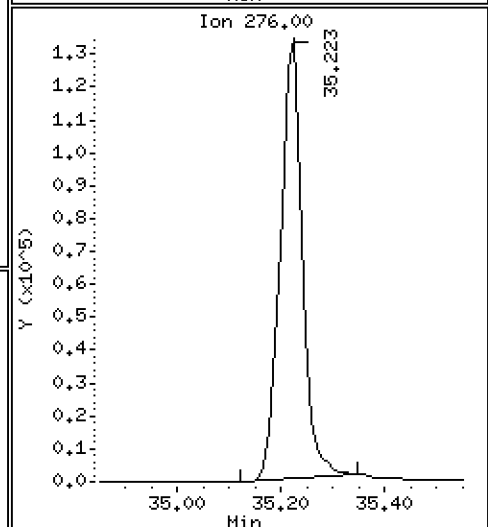
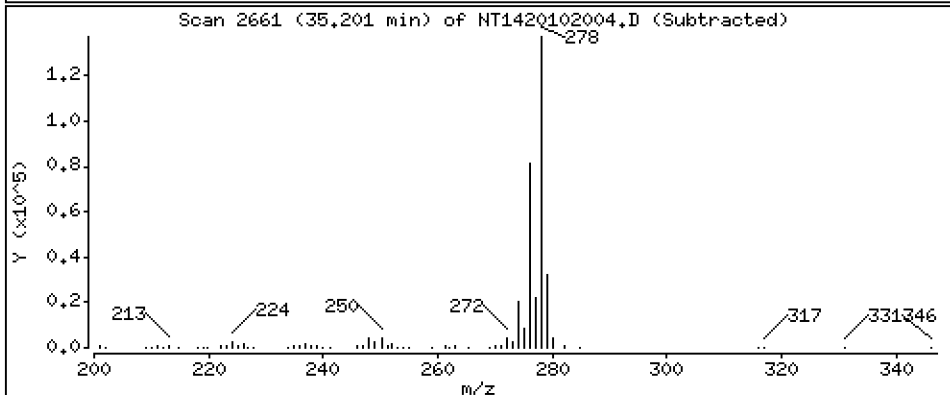
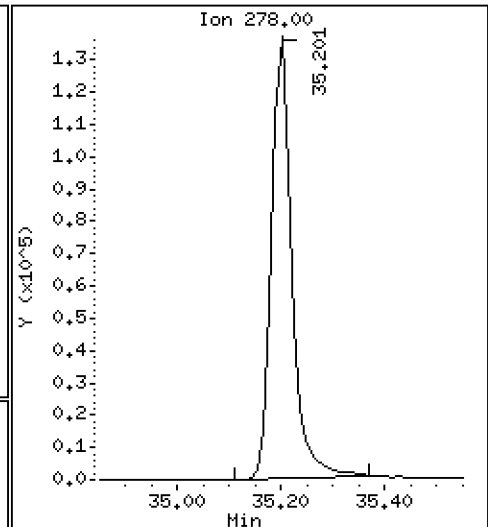
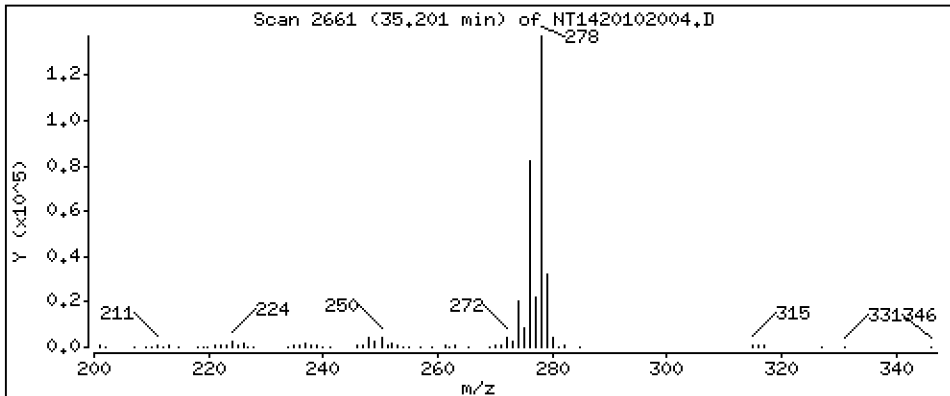
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 2,377 ug/mL



Date : 20-OCT-2020 11:47

Client ID:

Instrument: nt14.i

Sample Info: BIJ0442-BS1

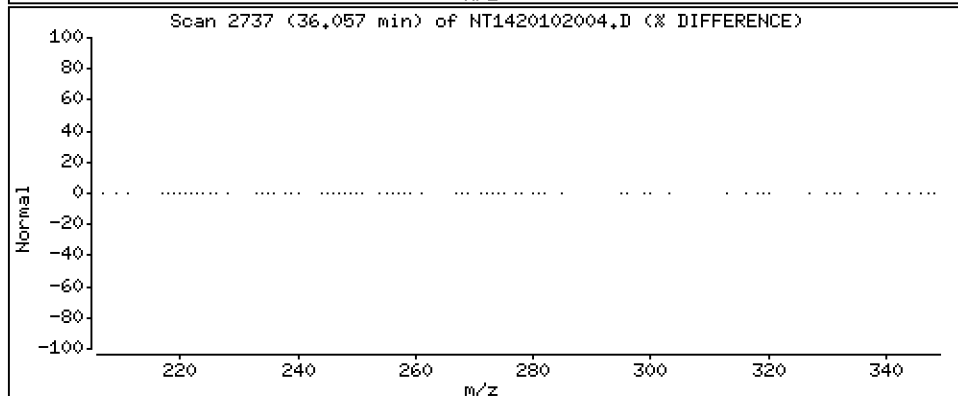
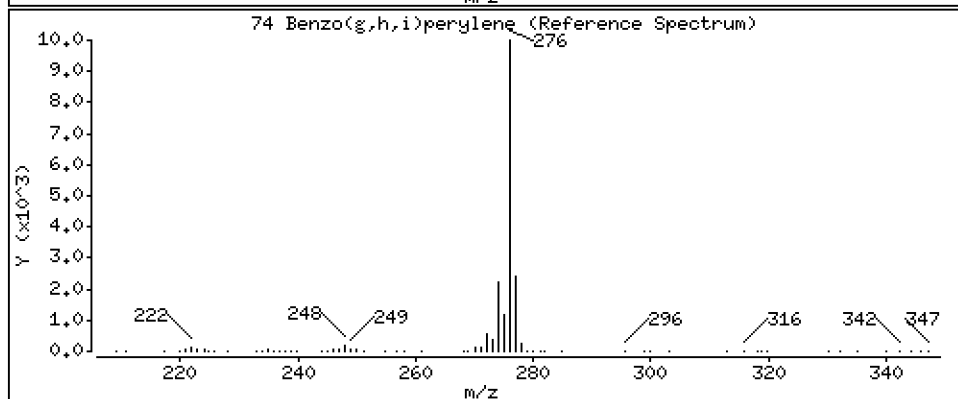
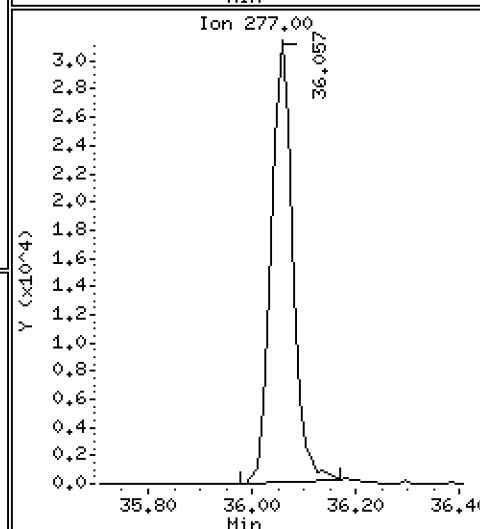
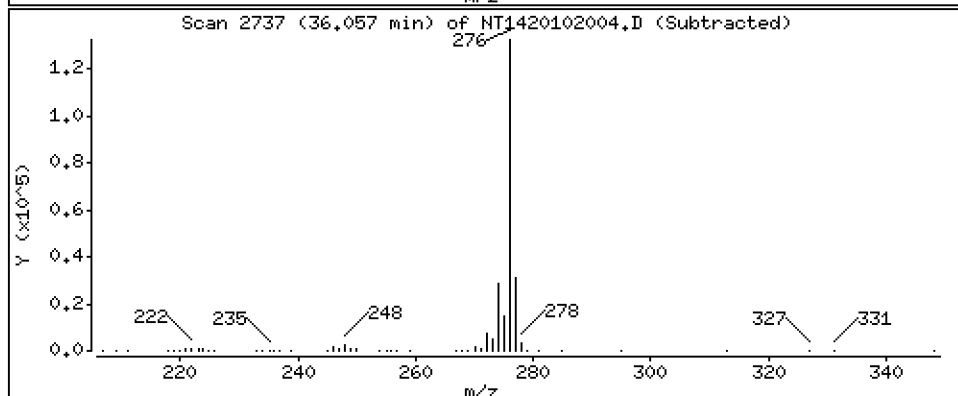
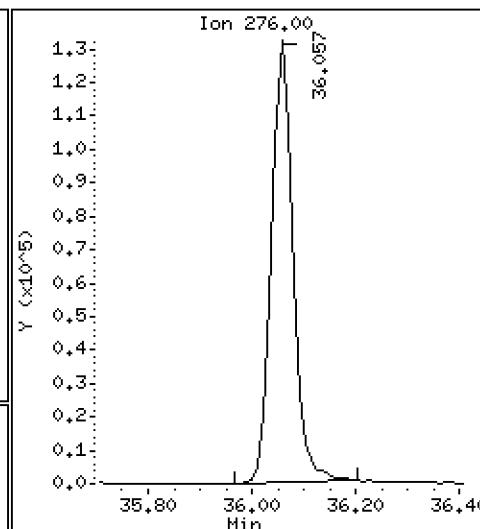
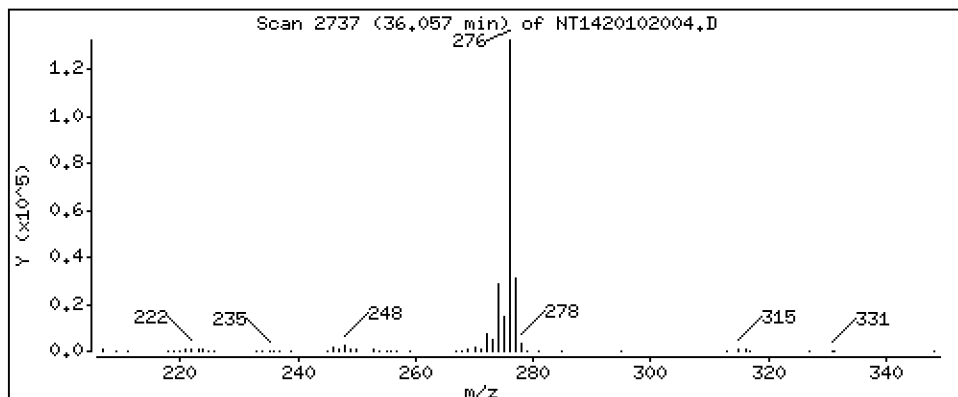
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 2,472 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201020.b\NT1420102004.D
 Lab Smp Id: BIJ0442-BS1
 Inj Date : 20-OCT-2020 11:47
 Operator : VTS
 Smp Info : BIJ0442-BS1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Meth Date : 20-Oct-2020 11:14 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
1 trans-Decalin	138		6.904	6.914	(0.371)	14532	1.44786	1.448
2 cis-Decalin	138		8.014	8.023	(0.430)	11287	1.49452	1.495
\$ 6 Naphthalene-d8	136		11.630	11.630	(0.625)	170514	1.74017	1.740 (R)
7 Naphthalene	128		11.696	11.696	(0.628)	147642	1.50604	1.506
12 Benzo(b)thiophene	134		12.146	12.146	(0.652)	121869	1.47950	1.480
16 2-Methylnaphthalene	141		13.531	13.531	(0.727)	92064	1.54056	1.541
17 1-methylnaphthalene	141		13.982	13.981	(0.751)	90130	1.48376	1.484
18 Biphenyl	154		15.169	15.168	(0.815)	139857	1.55499	1.555
19 2,6-Dimethylnaphthalene	156		15.245	15.245	(0.819)	106856	1.62739	1.627
20 Acenaphthylene	152		16.806	16.806	(0.903)	160107	1.48708	1.487
\$ 21 Acenaphthene-d10	164		17.092	17.092	(0.918)	96794	1.64504	1.645 (R)
22 Acenaphthene	153		17.202	17.201	(0.924)	119378	1.69255	1.693
23 Dibenzofuran	168		17.575	17.575	(0.944)	173335	1.69400	1.694
24 1,6,7-Trimethylnaphthalene	170		17.806	17.806	(0.956)	120802	1.81464	1.815
* 25 Fluorene-d10	176		18.621	18.621	(1.000)	240149	2.00000	
26 Fluorene	166		18.723	18.723	(1.005)	140281	1.75863	1.759
30 Dibenzothiophene	184		21.626	21.626	(1.161)	214530	1.86871	1.869
\$ 35 Phenanthrene-d10	188		21.941	21.941	(0.995)	245570	2.39039	2.390 (R)
36 Phenanthrene	178		22.018	22.018	(0.999)	233699	1.96744	1.967
* 250 Anthracene-d10	188		22.051	22.051	(1.000)	214491	2.00000	
37 Anthracene	178		22.117	22.116	(1.003)	218731	1.87369	1.874
42 Carbazole	167		23.403	23.403	(1.061)	227965	2.25499	2.255
43 1-Methylphenanthrene	192		23.854	23.853	(1.082)	198372	2.27526	2.275
44 Fluoranthene	202		25.822	25.821	(1.171)	306434	2.33741	2.337
46 Pyrene	202		26.668	26.668	(1.209)	323885	2.34120	2.341
51 Naphthobenzothiophene	234		29.234	29.234	(1.326)	288042	2.28432	2.284
55 Benzo(a)anthracene	228		29.817	29.816	(0.906)	319958	2.31220	2.312
\$ 56 Chrysene-d12	240		29.940	29.940	(0.910)	243673	2.22964	2.230 (R)
57 Chrysene	228		30.019	30.019	(0.912)	317932	2.31164	2.312
62 Benzo(b)fluoranthene	252		32.238	32.238	(0.980)	348461	2.23024	2.230 (M)
63 Benzo(k)fluoranthene	252		32.294	32.294	(0.982)	386608	2.45497	2.455 (M)
293 Benzo(j)fluoranthene	252		32.351	32.351	(0.983)	326805	2.37406	2.374
246 Total Benzofluoranthenes	252		32.238	32.238	(0.980)	1019911	7.03531	7.035 (M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264		32.903	32.902	(1.000)	320538	2.00000	
64 Benzo(e)pyrene	252		32.959	32.959	(1.002)	340071	2.37718	2.377
66 Benzo(a)pyrene	252		33.060	33.060	(1.005)	288380	2.13359	2.134
\$ 67 Perylene-d12	264		33.241	33.240	(1.010)	269765	2.03531	2.035 (R)
68 Perylene	252		33.297	33.297	(1.012)	306320	2.15767	2.158
69 Indeno(1,2,3-cd)pyrene	276		35.223	35.223	(1.071)	396129	2.36670	2.367 (M)
70 Dibenzo(a,h)anthracene	278		35.200	35.200	(1.070)	351490	2.37694	2.377 (M)
74 Benzo(g,h,i)perylene	276		36.056	36.056	(1.096)	363430	2.47163	2.472 (M)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 20-OCT-2020
 Lab File ID: NT1420102004.D Calibration Time: 09:59
 Lab Smp Id: BIJ0442-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	215838	107919	431676	240149	11.26
250 Anthracene-d10	194812	97406	389624	214491	10.10
251 Benzo(e)pyrene-d1	284140	142070	568280	320538	12.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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 - NT1420102004.D

Lab ID: BIJ0442-BS1

nt14.i, 20201020.b\ALKYLPNA.m, 20-OCT-2020 11:47

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

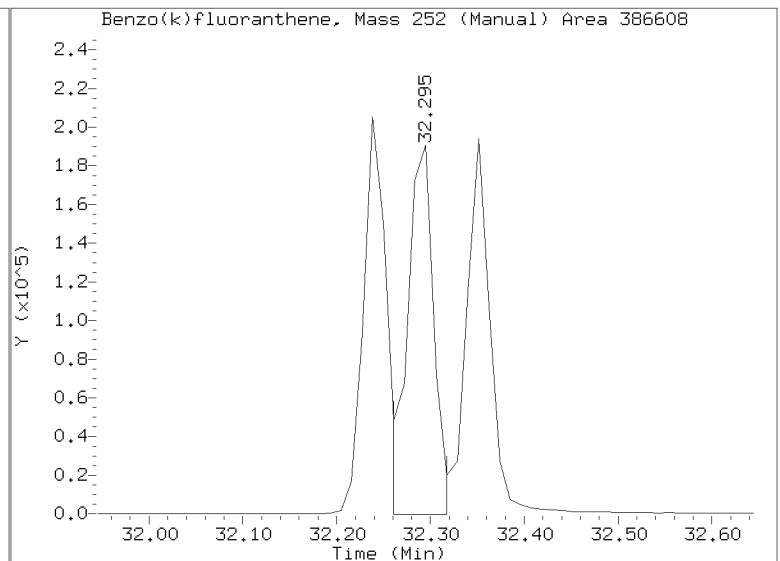
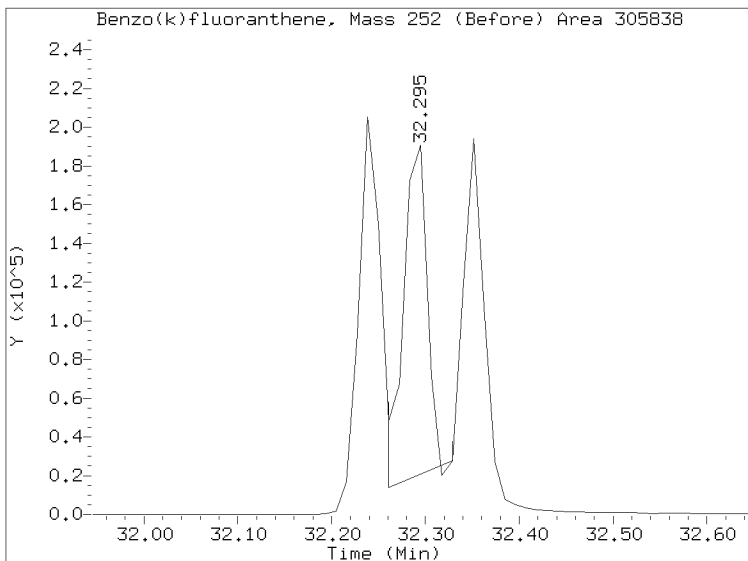
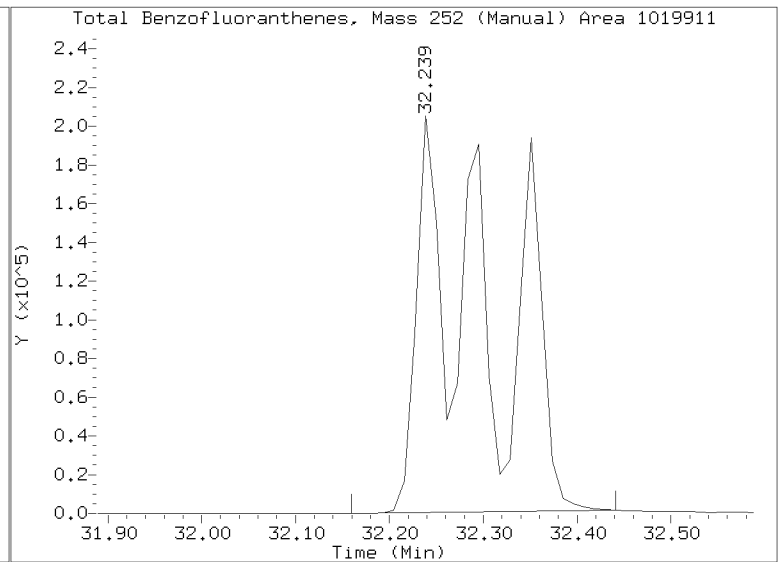
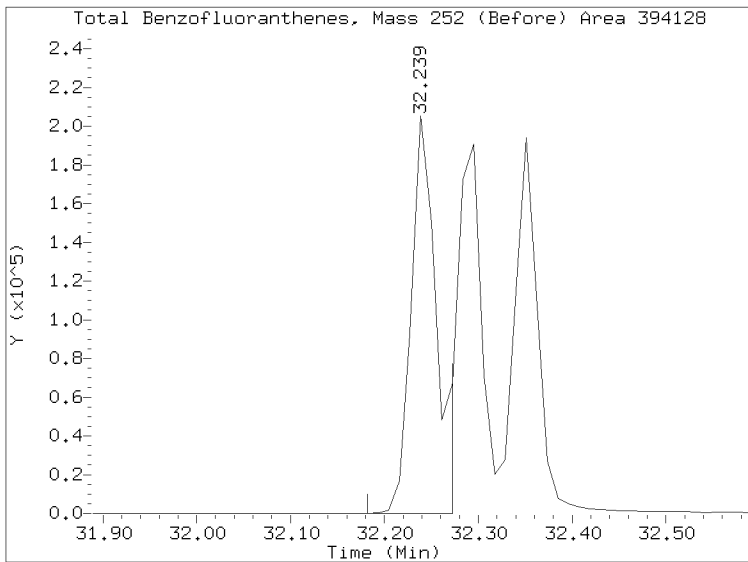
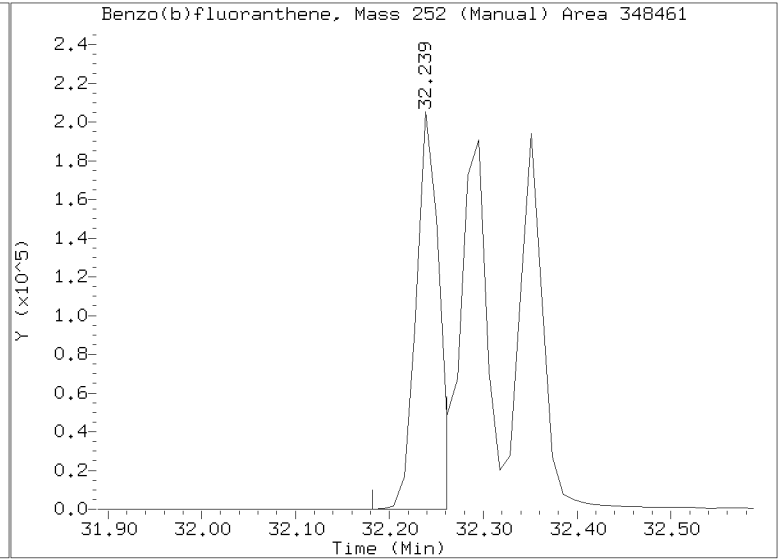
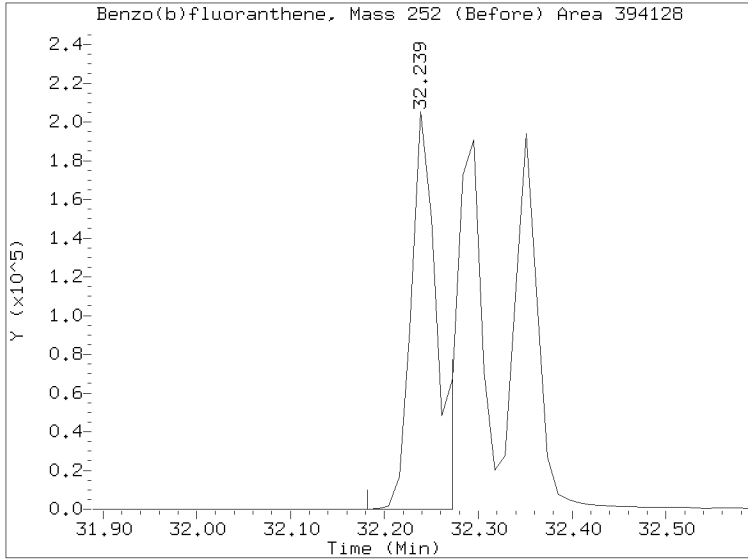
RRT check based on Ccal File: NT1420102002.D

On Column LOD for nt14.i, 20201020.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102004.D
Injection Date: 20-OCT-2020 11:47
Lab ID:BIJ0442-BS1 Client ID:
Report Date: 10/21/2020 14:21



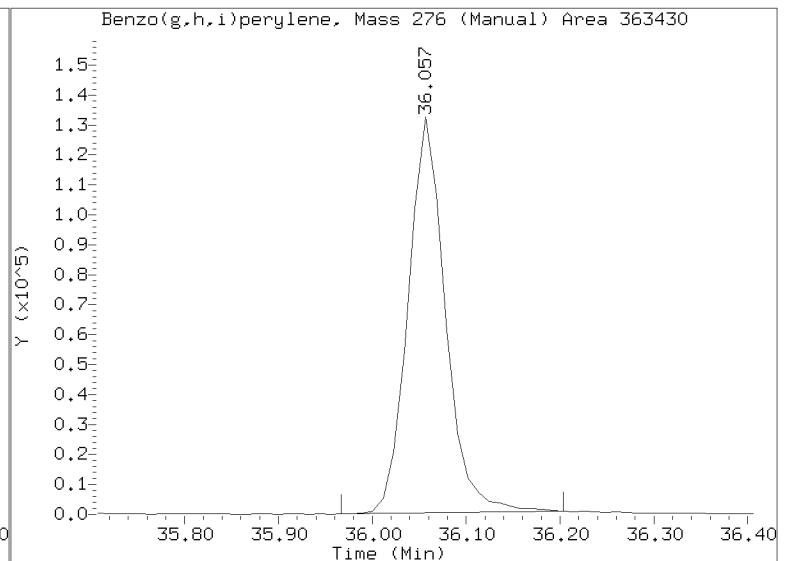
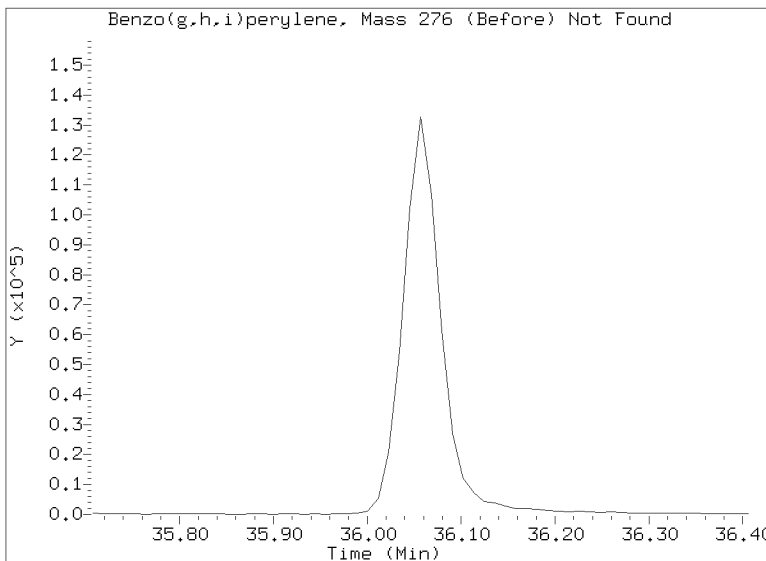
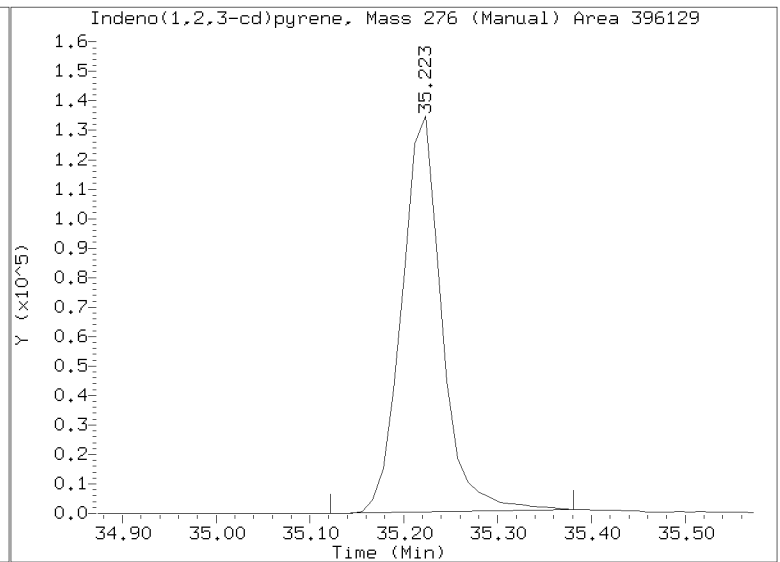
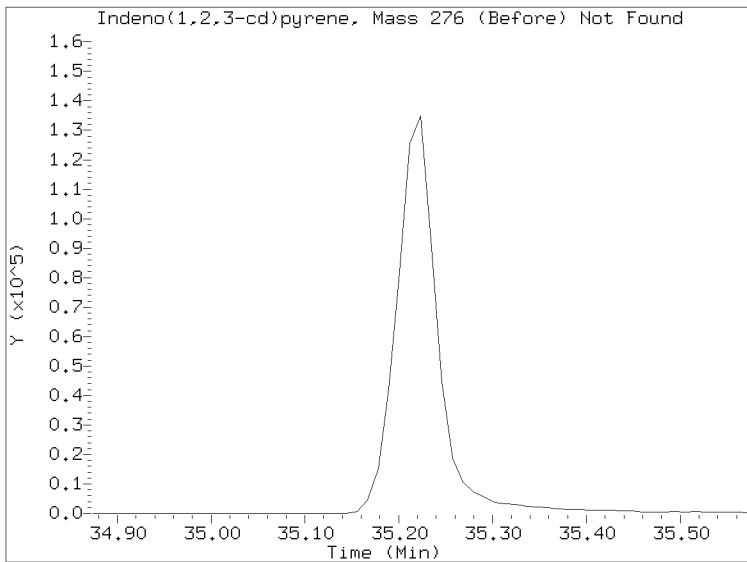
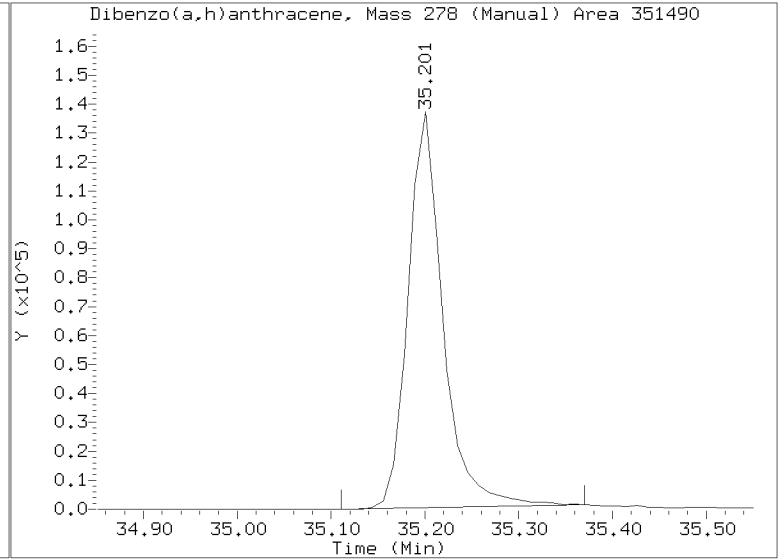
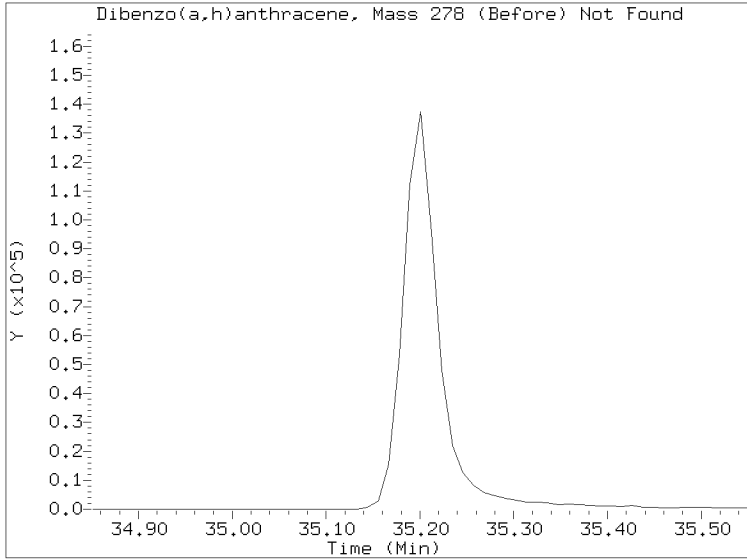
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102004.D

Injection Date: 20-OCT-2020 11:47

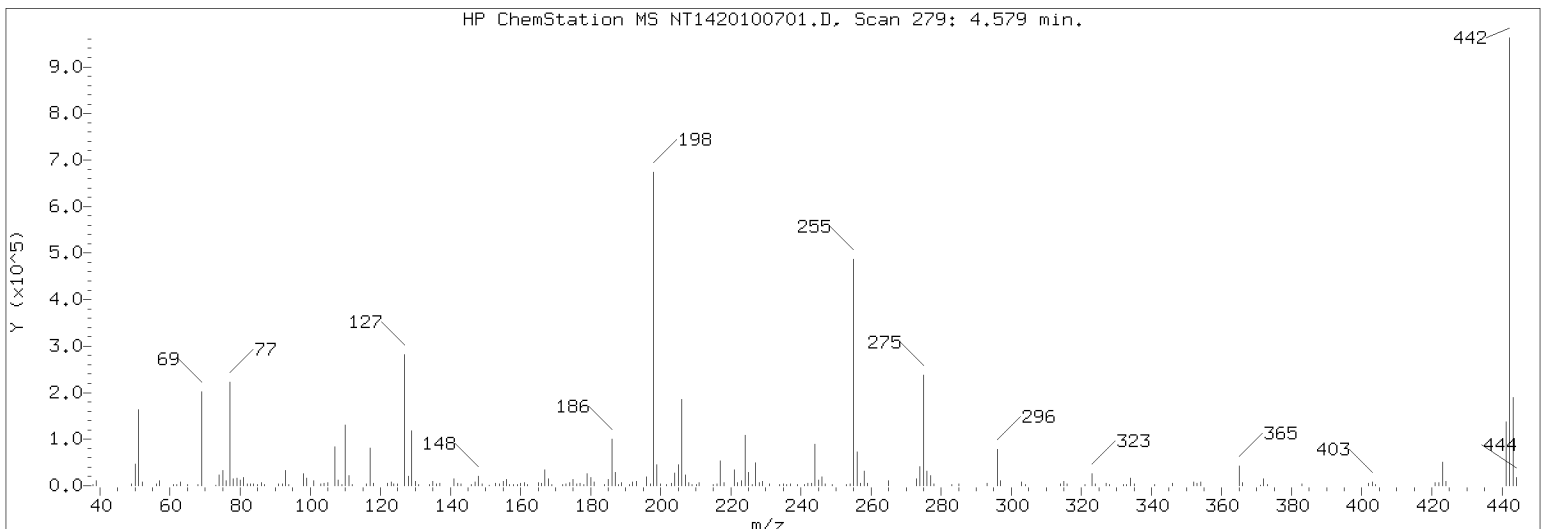
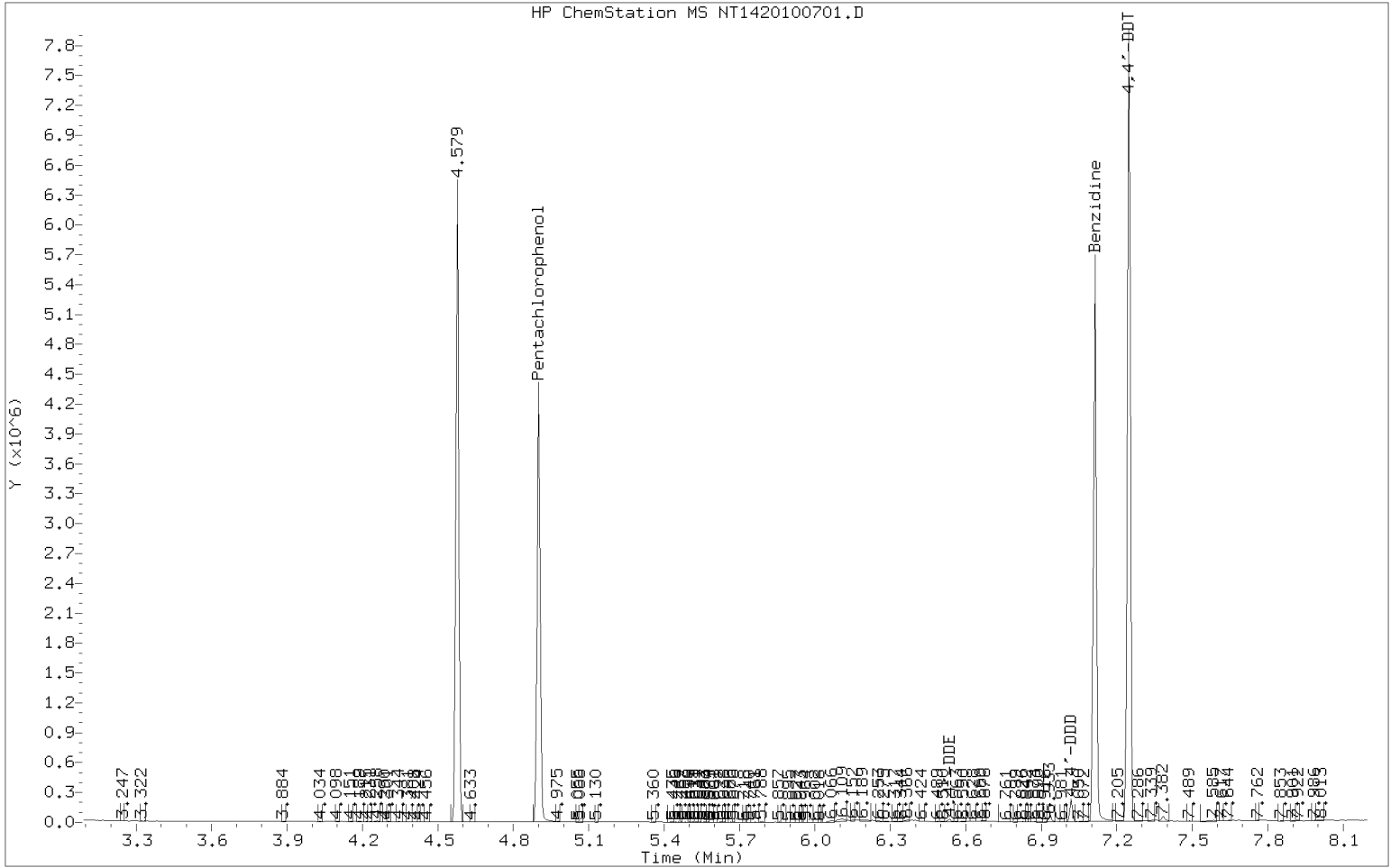
Lab ID:BIJ0442-BS1 Client ID:

Report Date: 10/21/2020 14:21

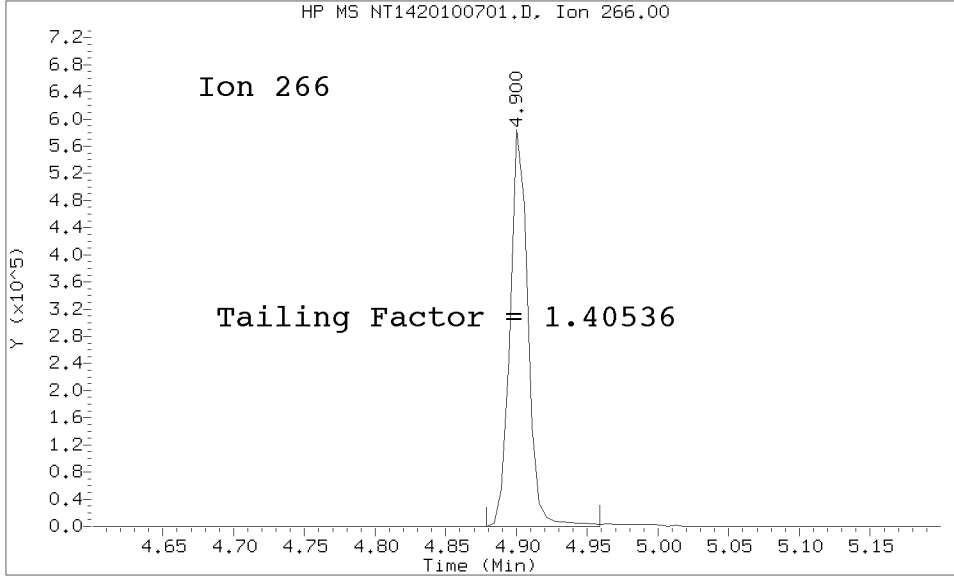


DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20201007.b/NT1420100701.D/NT1420100701.D
 Method Used: \20201007.b\DFTPP8270E.m Inst: nt14
 Injection Date: 07-OCT-2020 10:11 Operator: VTS
 Sample Info: SIJ0085-TUN1 SIJ0085-TUN1
 Report Date: 10/09/2020 08:53



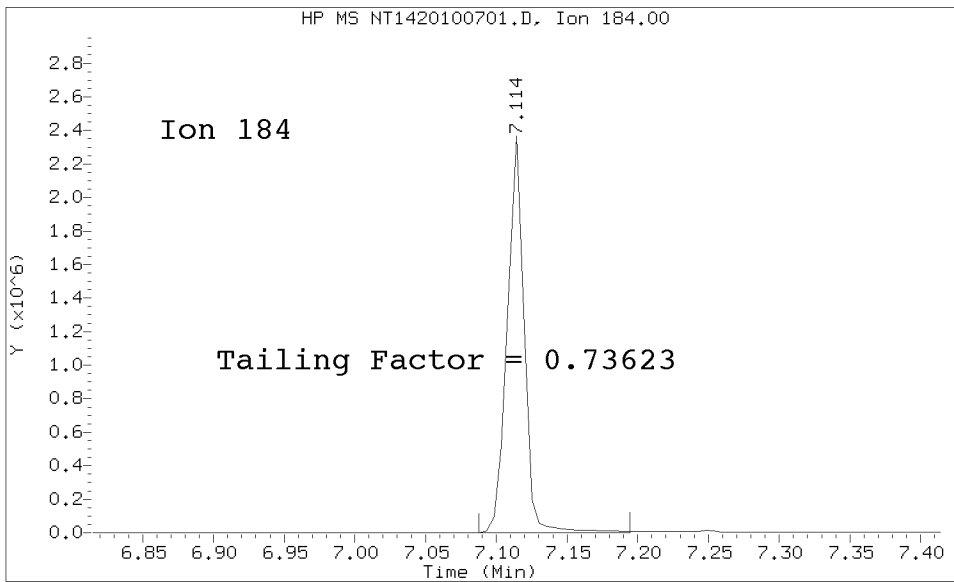
Datafile Analyzed: /20201007.b/NT1420100701.D/NT1420100701.D
Method Used: \20201007.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 07-OCT-2020 10:11 Operator: JZ
Sample Info: SIJ0XXX-TUN1
Report Date: 10/09/2020 08:53



Pentachlorophenol

=====
Exp. RT = 4.900
Found RT = 4.900

Tail Factor = 1.405 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.114
Found RT = 7.114

Tail Factor = 0.736 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4053628	2.000	PASS
Benzidine	0.7362251	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1276129			N/A
4,4-DDE	4051	0.3	20.0	PASS
4,4-DDD	44055	3.3	20.0	PASS
4,4-DDD + DDE	48106	3.6	20.0	PASS

Tuning Sample, nt14.i/20201007.b/NT1420100701.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	0.46 (1.44)
69	Mass 69 relative abundance	31.94
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.65
365	1.00 - 100.00% of mass 198	6.47
441	Less than 150.00% of mass 443	20.20 (73.33)
442	Less than 200.00% of mass 198	140.95
443	15.00 - 24.00% of mass 442	27.55 (19.55)

Data File: NT1420100701.D
 Spectrum: Avg. Scans 278-280 (4.58), Background Scan 272
 Location of Maximum: 442.00
 Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1611	124.00	2560	192.00	6276	265.00	8748
39.00	9098	125.00	2264	193.00	7013	273.00	11379
49.00	1311	127.00	207552	196.00	13832	274.00	29256
50.00	36736	128.00	15932	197.00	2232	275.00	165312
51.00	126848	129.00	87728	198.00	484288	276.00	22296
52.00	6325	130.00	7692	199.00	32224	277.00	15785
56.00	3265	131.00	771	200.00	2133	278.00	2083
57.00	8731	134.00	2232	201.00	1677	283.00	874
61.00	700	135.00	7259	203.00	3939	285.00	2151
62.00	1786	136.00	2444	204.00	19424	293.00	3634
63.00	5960	137.00	3313	205.00	33120	296.00	57720
65.00	2324	141.00	12142	206.00	132480	297.00	7735
68.00	2223	142.00	3147	207.00	17392	303.00	6179
69.00	154688	143.00	2464	208.00	4908	304.00	859
73.00	681	146.00	1704	209.00	788	314.00	2768
74.00	17208	147.00	6505	210.00	1771	315.00	6881
75.00	25608	148.00	15223	211.00	4926	316.00	3382
76.00	8556	149.00	2441	215.00	735	321.00	838
77.00	170112	151.00	682	216.00	2464	323.00	17976
78.00	11515	153.00	3408	217.00	37960	324.00	3192
79.00	13007	154.00	2639	218.00	4860	327.00	3669
80.00	9780	155.00	7087	221.00	23352	328.00	869
81.00	13272	156.00	10365	222.00	5324	332.00	731
82.00	3125	157.00	1486	223.00	8424	333.00	733
83.00	2765	158.00	1763	224.00	78312	334.00	11934
84.00	662	159.00	1503	225.00	19896	335.00	3109
85.00	2045	160.00	4069	226.00	1790	341.00	908
86.00	5760	161.00	5581	227.00	35384	346.00	4456
87.00	1727	162.00	729	228.00	5126	352.00	5824
91.00	2838	165.00	4905	229.00	7313	353.00	3740
92.00	2840	166.00	3054	231.00	2278	354.00	5874
93.00	24904	167.00	25360	234.00	1819	365.00	31344
94.00	1429	168.00	11411	235.00	2079	366.00	4724
98.00	19440	169.00	1727	236.00	1466	371.00	678
99.00	13142	172.00	1787	237.00	2042	372.00	10553
101.00	7647	173.00	2530	239.00	719	373.00	1846
103.00	2165	174.00	5454	241.00	989	383.00	2091
104.00	4836	175.00	9785	242.00	4264	402.00	4064
105.00	4897	176.00	2246	243.00	4691	403.00	5510
106.00	697	177.00	4153	244.00	63136	404.00	1571
107.00	63464	178.00	745	245.00	8415	421.00	5059
108.00	9088	179.00	19048	246.00	14109	422.00	4905
109.00	1552	180.00	13423	247.00	2271	423.00	36056
110.00	98656	181.00	6161	249.00	1833	424.00	6636
111.00	16440	184.00	1429	253.00	750	441.00	97848
112.00	1866	185.00	10069	254.00	1955	442.00	682624
116.00	3130	186.00	71968	255.00	344640	443.00	133440
117.00	62280	187.00	20688	256.00	51192	444.00	12305
118.00	4682	188.00	1797	257.00	4076		

122.00	3721	189.00	4659	258.00	22792	
123.00	6613	191.00	1774	259.00	3624	



INITIAL CALIBRATION DATA EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0121
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DI00041	Instrument:	NT14
Calibration Date:	09/08/2020	Column (1):	ZB-5MS

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Fluorene-d10		0.0			RSD (15)	
Anthracene-d10		0.0			RSD (15)	
Benzo(e)pyrene-d12		0.0			RSD (15)	



INITIAL CALIBRATION DATA EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0121
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DJ00029	Instrument:	NT14
Calibration Date:	10/07/2020	Column (1):	ZB-5MS

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RRF		RRF		RRF		RRF		RRF		RRF
trans-Decalin	0.1	6.976352E-02	0.25	8.246819E-02	0.5	8.208264E-02	2.5	0.0905733	5	9.006825E-02	10	8.657641E-02
cis-Decalin	0.1	5.200388E-02	0.25	5.837224E-02	0.5	6.613032E-02	2.5	6.875174E-02	5	6.640687E-02	10	6.571472E-02
Naphthalene	0.1	0.8325175	0.25	0.8114621	0.5	0.8422866	2.5	0.8242143	5	0.8148906	10	0.7732564
1-Methylnaphthalene	0.1	0.6990924	0.25	0.4788062	0.5	0.5036957	2.5	0.4942755	5	0.4916775	10	0.4684431
2-Methylnaphthalene	0.1	0.5179441	0.25	0.4655131	0.5	0.4882775	2.5	0.5121687	5	0.5128088	10	0.4894388
Biphenyl	0.1	0.7928998	0.25	0.7238304	0.5	0.7101733	2.5	0.7618376	5	0.764252	10	0.7412584
2,6-Dimethylnaphthalene	0.1	0.4989094	0.25	0.5556715	0.5	0.5636366	2.5	0.5682649	5	0.5587205	10	0.5358131
Acenaphthylene	0.1	0.9061061	0.25	0.8194818	0.5	0.8682598	2.5	0.94102	5	0.9235384	10	0.9215043
Acenaphthene	0.1	0.5895291	0.25	0.5749336	0.5	0.5757759	2.5	0.6021717	5	0.5983592	10	0.5836133
Dibenzofuran	0.1	0.857381	0.25	0.807031	0.5	0.8475917	2.5	0.8747488	5	0.8764949	10	0.8497103
2,3,5-Trimethylnaphthalene	0.1	0.5357037	0.25	0.5274009	0.5	0.5356003	2.5	0.5864214	5	0.5794769	10	0.5618775
Fluorene	0.1	0.6498208	0.25	0.644182	0.5	0.6513192	2.5	0.6915334	5	0.6880851	10	0.6609462
Benzo(b)thiophene	0.1	0.7488194	0.25	0.6836583	0.5	0.662261	2.5	0.6794853	5	0.6784908	10	0.6633111
Phenanthrene	0.1	1.173055	0.25	1.07415	0.5	1.123848	2.5	1.110139	5	1.114972	10	1.049329
Anthracene	0.1	1.246465	0.25	1.015759	0.5	1.046029	2.5	1.095193	5	1.0743	10	1.053339
Carbazole	0.1	0.9762922	0.25	0.8894007	0.5	0.9172786	2.5	0.9782606	5	0.9575252	10	0.9370706
1-Methylphenanthrene	0.1	0.7671942	0.25	0.760173	0.5	0.8136276	2.5	0.8519242	5	0.8633208	10	0.8215277
Fluoranthene	0.1	1.236035	0.25	1.121025	0.5	1.171809	2.5	1.279513	5	1.275712	10	1.250461
Dibenzothiophene	0.1	0.953192	0.25	0.9294516	0.5	0.9303191	2.5	0.9792702	5	0.984566	10	0.959691
Pyrene	0.1	1.331408	0.25	1.224148	0.5	1.213994	2.5	1.319611	5	1.329759	10	1.320801
Benzo(a)anthracene	0.1	0.8763347	0.25	0.7894445	0.5	0.7975884	2.5	0.9040921	5	0.9066241	10	0.9063876
Chrysene	0.1	0.8622567	0.25	0.8443263	0.5	0.8248472	2.5	0.8685951	5	0.8754086	10	0.8734866
Benzo(b)fluoranthene	0.1	0.9419617	0.25	0.867628	0.5	0.951131	2.5	1.028511	5	1.010929	10	1.049157
Benzo(j)fluoranthene	0.1	0.9039303	0.25	0.8109345	0.5	0.8021528	2.5	0.9013495	5	0.8522586	10	0.8828252
Benzo(k)fluoranthene	0.1	1.086033	0.25	0.9947285	0.5	0.8722978	2.5	0.9234414	5	1.030431	10	0.9886371
Benzofluoranthenes, Total	0.3	0.914016	0.75	0.8317556	1.5	0.847698	7.5	0.930595	15	0.9480758	30	0.9551231
Benzo(e)pyrene	0.1	0.8787861	0.25	0.8599351	0.5	0.8449394	2.5	0.9075786	5	0.9331093	10	0.9312596
Benzo(a)pyrene	0.1	0.8301786	0.25	0.7592582	0.5	0.7853596	2.5	0.8836344	5	0.8918164	10	0.909816



INITIAL CALIBRATION DATA EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0121
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DJ00029	Instrument:	NT14
Calibration Date:	10/07/2020	Column (1):	ZB-5MS

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Perylene	0.8858103	6.7			RSD (15)	
Benzo(b)naphtho(2,1-d)thiophene	1.175764	3.8			RSD (15)	
Naphthalene-d8	0.8160533	3.4			RSD (15)	
Acenaphthene-d10	0.4900295	2.9			RSD (15)	
Phenanthrene-d10	0.9579158	3.5			RSD (15)	
Chrysene-d12	0.681903	6.2			RSD (15)	
Perylene-d12	0.8269999	4.4			RSD (15)	



ANALYSIS SEQUENCE

SIJ0085

Instrument: NT14 Element Column ID: I005863
Calibration ID: DI00026 Tune File: 200104.U
EM Voltage: 1847

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0085-TUN1	MS Tune	QC		1	I007631		
SIJ0085-CAL4	PAH 2.5	QC		2	I007920	I007919	
SIJ0085-CAL6	PAH 10	QC		3	I007921	I007919	
SIJ0085-CAL1	PAH 0.1	QC		4	I007926	I007919	
SIJ0085-CAL5	PAH 5.0	QC		5	I007922	I007919	
SIJ0085-CAL3	PAH 0.5	QC		6	I007924	I007919	
SIJ0085-CAL2	PAH 0.25	QC		7	I007925	I007919	
SIJ0085-SCV1	Secondary Cal Check	QC		8	I009393	I007919	
SIJ0085-ICB1	Initial Cal Blank	QC		9	I008041	I007919	
SIJ0085-ICV1	Initial Cal Check	QC		10	I007920	I007919	
SIJ0085-IBL1	Instrument Blank	QC		11	I008041	I007919	
20I0231-01RE1	PDI-028SC-A-07-08-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	12		I007919	Added 10/5/2020 by YZ
20I0231-02RE1	PDI-028SC-A-09-10-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	13		I007919	Added 10/5/2020 by YZ
20I0231-03RE1	PDI-028SC-A-10-11-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	14		I007919	Added 10/5/2020 by YZ
20I0231-05RE1	PDI-069SC-A-08-09-191016	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	15		I007919	Added 10/5/2020 by YZ
20I0231-07RE1	PDI-080SC-A-00-01-200506	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	16		I007919	Added 10/5/2020 by YZ
20I0231-08RE1	PDI-081SC-A-10-11-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	17		I007919	Added 10/5/2020 by YZ
20I0231-09RE1	PDI-082SC-A-04-05-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	18		I007919	Added 10/5/2020 by YZ
20I0231-10RE1	PDI-082SC-A-07-08-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	19		I007919	Added 10/5/2020 by YZ
20I0231-11RE1	PDI-165SC-A-02-03-200426	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	20		I007919	Added 10/5/2020 by YZ
SIJ0085-CCV1	Calibration Check	QC		21	I007920	I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Time	Filename	LabID	ClientId	DF					
1	1011	NT1420100701.D	SIJ0085-TUN1	1	NO	ISTDS	FOUND		
2	1024	NT1420100702.D	SIJ0085-CAL4	1	18.63	237050	22.07	216685	32.93 311824
3	1148	NT1420100703.D	SIJ0085-CAL6	1	18.64	243221	22.08	226778	32.94 315078
4	1238	NT1420100704.D	SIJ0085-CAL1	1	18.63	219599	22.07	199428	32.93 285553
5	1326	NT1420100705.D	SIJ0085-CAL5	1	18.63	221965	22.07	204432	32.93 290471
6	1417	NT1420100706.D	SIJ0085-CAL2	1	18.63	218460	22.07	197976	32.93 287017
7	1508	NT1420100707.D	SIJ0085-CAL3	1	18.63	217147	22.07	196660	32.93 281303
8	1556	NT1420100708.D	SIJ0085-CAL4	1	18.63	206259	22.07	189225	32.93 280633
9	1645	NT1420100709.D	SIJ0085-SCV1	1	18.63	189405	22.07	203362	32.93 288304
10	1733	NT1420100710.D	SIJ0085-ICB1	1	18.63	209569	22.07	195015	32.93 275049
11	1822	NT1420100711.D	SIJ0085-ICV1	1	18.63	209596	22.07	192407	32.93 274120
12	1911	NT1420100712.D	SIJ0085-IBL1	1	18.63	204918	22.07	190308	32.93 277914
13	1959	NT1420100713.D	20I0231-01RE1	50	18.63	216675	22.07	201347	32.93 283619
14	2048	NT1420100714.D	20I0231-02RE1	50	18.63	223226	22.07	210366	32.93 295832
15	2136	NT1420100715.D	20I0231-03RE1	50	18.63	220403	22.07	205010	32.93 294397
16	2225	NT1420100716.D	20I0231-04RE1	50	18.63	221665	22.07	207108	32.93 288287
17	2313	NT1420100717.D	20I0231-05RE1	50	18.63	213324	22.07	203945	32.93 287899
18	0001	NT1420100718.D	20I0231-06RE1	50	18.63	223960	22.07	210571	32.93 296494
19	0049	NT1420100719.D	20I0231-07RE1	25	18.63	219212	22.07	209445	32.93 289596
20	0138	NT1420100720.D	20I0231-08RE1	100	18.63	222098	22.07	213997	32.93 296812

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Time	Filename	LabID	ClientId	DF						
21	0226	NT1420100721.D	20I0231-09RE1		50	18.63	230253 22.07	216448 32.93	299511	
22	0314	NT1420100722.D	20I0231-10RE1		50	18.63	222736 22.07	211749 32.93	294827	
23	0403	NT1420100723.D	20I0231-11RE1		100	18.63	220968 22.07	205977 32.93	288799	
24	0451	NT1420100724.D	SIJ0085-CCV1		1	18.63	215012 22.07	198797 32.93	275539	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Instrument: nt14.i Date: 07-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds					
1011	NT1420100701.D	SIJ0085-TUN1	1	NO MANUAL INTEGRATION					
1024	NT1420100702.D	SIJ0085-CAL4	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Total Benzofluoranthenes,		
1148	NT1420100703.D	SIJ0085-CAL6	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene,		
1238	NT1420100704.D	SIJ0085-CAL1	1	Benzo(k)fluoranthene,	cis-Decalin,	Total Benzofluoranthenes,	Phenanthrene-d10,		
1326	NT1420100705.D	SIJ0085-CAL5	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene	
1417	NT1420100706.D	SIJ0085-CAL2	1	Total Benzofluoranthenes,					
1508	NT1420100707.D	SIJ0085-CAL3	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene	
1556	NT1420100708.D	SIJ0085-CAL4	1	Total Benzofluoranthenes,		Phenanthrene-d10,			
1645	NT1420100709.D	SIJ0085-SCV1	1	Benzo(g,h,i)perylene,	Total Benzofluoranthenes,				
1733	NT1420100710.D	SIJ0085-ICB1	1	NO MANUAL INTEGRATION					
1822	NT1420100711.D	SIJ0085-ICV1	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthene	
1911	NT1420100712.D	SIJ0085-IBL1	1	NO MANUAL INTEGRATION					
1959	NT1420100713.D	20I0231-01RE1	50	Acenaphthylene,	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	2,6-Dimethylnaphthalene,	Total Benzofluoranthenes,	
				Perylene-d12,					
2048	NT1420100714.D	20I0231-02RE1	50	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	Benzo(g,h,i)perylene,	
				Total Benzofluoranthenes,		Naphthalene-d8,	Phenanthrene-d10,	Perylene-d12,	
2136	NT1420100715.D	20I0231-03RE1	50	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	2,6-Dimethylnaphthalen	
				Naphthalene-d8,	Phenanthrene-d10,	Perylene-d12,			
2225	NT1420100716.D	20I0231-04RE1	50	NO MANUAL INTEGRATION					
2313	NT1420100717.D	20I0231-05RE1	50	Chrysene,	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	2,6-Dimethylnaphthalene,	Total Benzofluoranthenes,	Napht
				Acenaphthene-d10,	Phenanthrene-d10,	Perylene-d12,			

Instrument: nt14.i Date: 08-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds					
0001	NT1420100718.D	20I0231-06RE1	50	NO MANUAL INTEGRATION					
0049	NT1420100719.D	20I0231-07RE1	25	Benzo(b)fluoranthene, Total Benzofluoranthenes,	Benzo(k)fluoranthene, Phenanthrene-d10,	Dibenzo(a,h)anthracene, Perylene-d12,	Benzo(g,h,i)perylene,	Biphenyl,	2,6-Dimeth
0138	NT1420100720.D	20I0231-08RE1	100	Benzo(b)fluoranthene, Phenanthrene-d10,	Benzo(k)fluoranthene, Perylene-d12,	Dibenzo(a,h)anthracene,	Biphenyl,	2,6-Dimethylnaphthalene,	Total B
0226	NT1420100721.D	20I0231-09RE1	50	Benzo(b)fluoranthene, 2,6-Dimethylnaphthalene,	Benzo(k)fluoranthene, Benzo(b)thiophene,	Indeno(1,2,3-cd)pyrene, Total Benzofluoranthenes,	Dibenzo(a,h)anthracene, Phenanthrene-d10,	Benzo(g,h,i)perylene, Perylene-d12,	
0314	NT1420100722.D	20I0231-10RE1	50	Benzo(b)fluoranthene, Benzo(b)thiophene,	Benzo(k)fluoranthene, Total Benzofluoranthenes,	Dibenzo(a,h)anthracene, Phenanthrene-d10,	Benzo(g,h,i)perylene, Perylene-d12,	Biphenyl,	2,6-Dimeth
0403	NT1420100723.D	20I0231-11RE1	100	Benzo(b)fluoranthene, Total Benzofluoranthenes,	Benzo(k)fluoranthene, Phenanthrene-d10,	Indeno(1,2,3-cd)pyrene, Chrysene-d12,	Dibenzo(a,h)anthracene, Perylene-d12,	Benzo(g,h,i)perylene,	
0451	NT1420100724.D	SIJ0085-CCV1	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene	

Security Status Report

Date: 09-Oct-2020 11:05

NT1420100701.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100702.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100703.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100704.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100705.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100706.D	Data Locked	van,	09-Oct-2020	11:05
NT1420100707.D	Data Locked	van,	09-Oct-2020	11:05
NT1420100708.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100709.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100710.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100711.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100712.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100713.D	Data Locked	van,	09-Oct-2020	08:47
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NT1420100715.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100716.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100717.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100718.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100719.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100720.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100721.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100722.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100723.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100724.D	Data Locked	van,	09-Oct-2020	08:47

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INITIAL CALIBRATION DATA

Start Cal Date : 07-OCT-2020 10:24
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 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Last Edit : 08-Oct-2020 12:40 van

Calibration File Names:

- Level 1: \\target\share\chem3\nt14.i\20201007.b\NT1420100704.D
- Level 2: \\target\share\chem3\nt14.i\20201007.b\NT1420100706.D
- Level 3: \\target\share\chem3\nt14.i\20201007.b\NT1420100707.D
- Level 5: \\target\share\chem3\nt14.i\20201007.b\NT1420100702.D
- Level 6: \\target\share\chem3\nt14.i\20201007.b\NT1420100705.D
- Level 7: \\target\share\chem3\nt14.i\20201007.b\NT1420100703.D

Compound	0.100000	0.250000	0.500000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD or R ²
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7		b	m1	m2	
1 trans-Decalin	0.06976	0.08247	0.08208	0.09057	0.09007	0.08658	AVRG		0.08359		9.17916
2 cis-Decalin	0.05200	0.05837	0.06613	0.06875	0.06641	0.06571	AVRG		0.06290		10.15863
3 C1-Decalin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
4 C2-Decalin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
5 C3-Decalin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
247 C4-Decalin	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
7 Naphthalene	0.83252	0.81146	0.84229	0.82421	0.81489	0.77326	AVRG		0.81644		2.93907
8 C1-Naphthalenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
9 C2-Naphthalenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
10 C3-Naphthalenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
11 C4-Naphthalenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
12 Benzo(b)thiophene	0.74882	0.68366	0.66226	0.67949	0.67849	0.66331	AVRG		0.68600		4.66875
13 C1-Benzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-
14 C2-Benzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000<-

ARI Labs, Inc.

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 Last Edit : 08-Oct-2020 12:40 van

Compound	0.1000000	0.2500000	0.5000000	2.5000	5.0000	10.0000	Curve	Coefficients			%RSD
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7		b	m1	m2	or R ²
15 C3-Benzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
16 2-Methylnaphthalene	0.51794	0.46551	0.48828	0.51217	0.51281	0.48944	AVRG	0.49769			4.05900
17 1-methylnaphthalene	7676	13075	27344	146460	272838	569676	QUAD	0.000e+000	1.94678	0.07978	0.99995
18 Biphenyl	0.79290	0.72383	0.71017	0.76184	0.76425	0.74126	AVRG	0.74904			4.01648
19 2,6-Dimethylnaphthalene	0.49891	0.55567	0.56364	0.56826	0.55872	0.53581	AVRG	0.54684			4.75409
20 Acenaphthylene	0.90611	0.81948	0.86826	0.94102	0.92354	0.92150	AVRG	0.89665			5.02728
22 Acenaphthene	0.58953	0.57493	0.57578	0.60217	0.59836	0.58361	AVRG	0.58740			1.93764
23 Dibenzofuran	0.85738	0.80703	0.84759	0.87475	0.87649	0.84971	AVRG	0.85216			2.96556
24 1,6,7-Trimethylnaphthalene	0.53570	0.52740	0.53560	0.58642	0.57948	0.56188	AVRG	0.55441			4.52157
26 Fluorene	0.64982	0.64418	0.65132	0.69153	0.68809	0.66095	AVRG	0.66431			3.08609
27 C1-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
28 C2-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
29 C3-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
30 Dibenzothiophene	0.95319	0.92945	0.93032	0.97927	0.98457	0.95969	AVRG	0.95608			2.44995
31 C1-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
32 C2-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
33 C3-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
34 C4-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
36 Phenanthrene	1.17305	1.07415	1.12385	1.11014	1.11497	1.04933	AVRG	1.10758			3.85673
37 Anthracene	1.24646	1.01576	1.04603	1.09519	1.07430	1.05334	AVRG	1.08851			7.52318
38 C1-Phenanthrenes/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-
39 C2-Phenanthrenes/Anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	AVRG	0.000e+000			0.000e+000 <-

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Compound	0.1000000	0.2500000	0.5000000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7			m1	m2	
40 C3-Phenanthrenes/Anthracenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
41 C4-Phenanthrenes/Anthracenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
42 Carbazole	0.97629	0.88940	0.91728	0.97826	0.95753	0.93707	AVRG		0.94264		3.71496
43 1-Methylphenanthrene	0.76719	0.76017	0.81363	0.85192	0.86332	0.82153	AVRG		0.81296		5.22143
44 Fluoranthene	1.23604	1.12102	1.17181	1.27951	1.27571	1.25046	AVRG		1.22243		5.16260
45 Pyrene-d10	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
46 Pyrene	1.33141	1.22415	1.21399	1.31961	1.32976	1.32080	AVRG		1.28995		4.27909
47 Retene	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
48 C1-Fluoranthenes/Pyrenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
49 C2-Fluoranthenes/Pyrenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
50 C3-Fluoranthenes/Pyrenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
249 C4-Fluoranthenes/Pyrenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
51 Naphthobenzothiophene	1.14116	1.13533	1.13264	1.22014	1.22918	1.19614	AVRG		1.17576		3.79015
52 C1-Naphthobenzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
53 C2-Naphthobenzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
54 C3-Naphthobenzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
248 C4-Naphthobenzothiophenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
55 Benzo(a)anthracene	0.87633	0.78944	0.79759	0.90409	0.90662	0.90639	AVRG		0.86341		6.41519
57 Chrysene	0.86226	0.84433	0.82485	0.86860	0.87541	0.87349	AVRG		0.85815		2.30669
58 C1-Benzo(a)anthracenes/Chryse	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
59 C2-Benzo(a)anthracenes/Chryse	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
60 C3-Benzo(a)anthracenes/Chryse	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-

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Compound	0.1000000	0.2500000	0.5000000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7			m1	m2	
61 C4-Benzo(a)anthracenes/Chryse	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
62 Benzo(b)fluoranthene	0.94196	0.86763	0.95113	1.02851	1.01093	1.04916	AVRG		0.97489		6.93335
293 Benzo(j)fluoranthene	0.90393	0.81093	0.80215	0.90135	0.85226	0.88283	AVRG		0.85891		5.19820
63 Benzo(k)fluoranthene	1.08603	0.99473	0.87230	0.92344	1.03043	0.98864	AVRG		0.98259		7.72874
64 Benzo(e)pyrene	0.87879	0.85994	0.84494	0.90758	0.93311	0.93126	AVRG		0.89260		4.15857
246 Total Benzofluoranthenes	0.91402	0.83176	0.84770	0.93060	0.94808	0.95512	AVRG		0.90454		5.79771
65 Benzo(a)pyrene-d12	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
66 Benzo(a)pyrene	0.83018	0.75926	0.78536	0.88363	0.89182	0.90982	AVRG		0.84334		7.30898
68 Perylene	0.91983	0.79307	0.82962	0.92889	0.92645	0.91700	AVRG		0.88581		6.65873
69 Indeno(1,2,3-cd)pyrene	1.03729	0.94821	0.95971	1.06853	1.12297	1.12938	AVRG		1.04435		7.47292
70 Dibenzo(a,h)anthracene	0.88341	0.84893	0.82048	0.97332	0.98332	1.02654	AVRG		0.92267		8.99694
71 C1-Dibenzo(a)anthracenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
72 C2-Dibenzo(a)anthracenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
73 C3-Dibenzo(a)anthracenes	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
74 Benzo(g,h,i)perylene	0.93482	0.82958	0.88013	0.94688	0.95630	0.95706	AVRG		0.91746		5.63403
253 n-Octane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
254 n-Nonane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
262 n-Decane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
255 n-Undecane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
256 n-Dodecane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
257 n-Tridecane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-
258 n-Tetradecane	++++	++++	++++	++++	++++	++++	AVRG		0.000e+000		0.000e+000 <-

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Compound	0.1000000 Level 1	0.2500000 Level 2	0.5000000 Level 3	2.5000 Level 5	5.0000 Level 6	10.0000 Level 7	Curve	b	Coefficients m1 m2		%RSD or R ²
259 n-Pentadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
263 n-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
264 n-Heptadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
265 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
266 Pristane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
288 n-Nonadecane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
289 Phytane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
267 n-Eicosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
268 n-Heneicosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
270 n-Docosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
271 n-Tricosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
272 n-Tetracosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
273 n-Pentacosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
274 n-Hexacosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
275 n-Heptacosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
276 n-Octacosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
291 n-Nonacosane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
278 n-Triacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
279 n-Hentriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
280 n-Dotriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
281 n-Tritriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
282 n-Tetratriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-OCT-2020 10:24
 End Cal Date : 07-OCT-2020 15:56
 Quant Method : ISTD
 Target Version : 4.14
 Integrator : HP RTE
 Method file : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Last Edit : 08-Oct-2020 12:40 van

Compound	0.1000000	0.2500000	0.5000000	2.5000	5.0000	10.0000	Curve	b	Coefficients		%RSD or R ²
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7			m1	m2	
283 n-Pentatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
284 n-Hexatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
285 n-Heptatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
286 n-Octatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
292 n-Nonatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
287 n-Tetracontane	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000 <-
=====											
\$ 6 Naphthalene-d8	0.85884	0.79575	0.78796	0.83577	0.82201	0.79598	AVRG		0.81605		3.40440
\$ 21 Acenaphthene-d10	0.47505	0.48723	0.47494	0.50672	0.50685	0.48939	AVRG		0.49003		2.91717
\$ 35 Phenanthrene-d10	0.92525	0.92209	0.95633	1.00209	0.99243	0.94931	AVRG		0.95792		3.48405
\$ 56 Chrysene-d12	0.76602	0.65303	0.66476	0.66485	0.68082	0.66193	AVRG		0.68190		6.18505
\$ 67 Perylene-d12	0.87844	0.77796	0.79501	0.83236	0.84610	0.83212	AVRG		0.82700		4.35758

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 07-OCT-2020 10:24
End Cal Date : 07-OCT-2020 15:56
Quant Method : ISTD
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Last Edit : 08-Oct-2020 12:40 van

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Batch File: \\target\share\chem3\nt14.i\20201007.b
Inst ID: nt14.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	NT1420100702	NT1420100703	NT1420100704	NT1420100705	NT1420100706	NT1420100707
INJ. DATE:	07-OCT-2020	07-OCT-2020	07-OCT-2020	07-OCT-2020	07-OCT-2020	07-OCT-2020
INJ. TIME:	10:24	11:48	12:38	13:26	14:17	15:08

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 trans-Decalin	6.925	6.925	6.935	6.935	6.935	6.935	6.935	3.935-9.935	6.931	0.005
2 cis-Decalin	8.034	8.034	8.034	8.024	8.044	8.034	8.034	5.034-11.034	8.034	0.006
3 C1-Decalin	+++++	+++++	+++++	+++++	+++++	+++++	8.800	5.800-11.800	+++++	+++++
4 C2-Decalin	+++++	+++++	+++++	+++++	+++++	+++++	9.200	6.200-12.200	+++++	+++++
5 C3-Decalin	+++++	+++++	+++++	+++++	+++++	+++++	10.000	7.000-13.000	+++++	+++++
247 C4-Decalin	+++++	+++++	+++++	+++++	+++++	+++++	10.100	7.100-13.100	+++++	+++++
6 Naphthalene-d8	11.641	11.652	11.641	11.641	11.641	11.641	11.641	8.641-14.641	11.643	0.004
7 Naphthalene	11.707	11.718	11.707	11.707	11.707	11.707	11.707	8.707-14.707	11.709	0.004
8 C1-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	14.000	11.000-17.000	+++++	+++++
9 C2-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	16.000	13.000-19.000	+++++	+++++
10 C3-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	18.000	15.000-21.000	+++++	+++++
11 C4-Naphthalenes	+++++	+++++	+++++	+++++	+++++	+++++	18.500	15.500-21.500	+++++	+++++
12 Benzo(b)thiophene	12.158	12.158	12.158	12.158	12.158	12.158	12.158	9.158-15.158	12.158	0.000
13 C1-Benzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	14.200	11.200-17.200	+++++	+++++
14 C2-Benzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	15.800	12.800-18.800	+++++	+++++
15 C3-Benzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	17.200	14.200-20.200	+++++	+++++
16 2-Methylnaphthalene	13.542	13.553	13.543	13.542	13.543	13.542	13.542	10.542-16.542	13.544	0.004

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Batch File: \\target\share\chem3\nt14.i\20201007.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
17 1-methylnaphthalene	13.993	13.993	13.993	13.993	13.993	13.993	13.993	10.993-16.993	13.993	0.000
18 Biphenyl	15.180	15.191	15.180	15.180	15.180	15.180	15.180	12.180-18.180	15.182	0.004
19 2,6-Dimethylnaphthalen	15.257	15.268	15.257	15.257	15.257	15.257	15.257	12.257-18.257	15.259	0.004
20 Acenaphthylene	16.817	16.828	16.817	16.817	16.818	16.817	16.817	13.817-19.817	16.819	0.004
21 Acenaphthene-d10	17.103	17.114	17.103	17.103	17.103	17.103	17.103	14.103-20.103	17.105	0.004
22 Acenaphthene	17.224	17.224	17.224	17.224	17.224	17.224	17.224	14.224-20.224	17.224	0.000
23 Dibenzofuran	17.598	17.609	17.598	17.598	17.598	17.598	17.598	14.598-20.598	17.599	0.004
24 1,6,7-Trimethylnaphtha	17.828	17.828	17.829	17.828	17.829	17.828	17.828	14.828-20.828	17.828	0.000
* 25 Fluorene-d10	18.633	18.644	18.633	18.633	18.633	18.633	18.633	15.633-21.633	18.635	0.005
26 Fluorene	18.746	18.746	18.746	18.746	18.746	18.746	18.746	15.746-21.746	18.746	0.000
27 C1-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	21.000	18.000-24.000	+++++	+++++
28 C2-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	21.200	18.200-24.200	+++++	+++++
29 C3-Fluorenes	+++++	+++++	+++++	+++++	+++++	+++++	23.000	20.000-26.000	+++++	+++++
30 Dibenzothiophene	21.649	21.660	21.649	21.649	21.649	21.649	21.649	18.649-24.649	21.651	0.005
31 C1-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	23.500	20.500-26.500	+++++	+++++
32 C2-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	24.500	21.500-27.500	+++++	+++++
33 C3-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	25.600	22.600-28.600	+++++	+++++
34 C4-Dibenzothiophenes	+++++	+++++	+++++	+++++	+++++	+++++	27.000	24.000-30.000	+++++	+++++
35 Phenanthrene-d10	21.963	21.974	21.963	21.963	21.963	21.963	21.963	18.963-24.963	21.965	0.004
* 250 Anthracene-d10	22.073	22.084	22.073	22.073	22.073	22.073	22.073	19.073-25.073	22.075	0.004
36 Phenanthrene	22.040	22.051	22.040	22.040	22.040	22.040	22.040	19.040-25.040	22.042	0.004
37 Anthracene	22.150	22.150	22.139	22.150	22.139	22.139	22.139	19.139-25.139	22.145	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Batch File: \\target\share\chem3\nt14.i\20201007.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
38 C1-Phenanthrenes/Anthr	+++++	+++++	+++++	+++++	+++++	+++++	23.800	20.800-26.800	+++++	+++++
39 C2-Phenanthrenes/Anthr	+++++	+++++	+++++	+++++	+++++	+++++	25.000	22.000-28.000	+++++	+++++
40 C3-Phenanthrenes/Anthr	+++++	+++++	+++++	+++++	+++++	+++++	27.000	24.000-30.000	+++++	+++++
41 C4-Phenanthrenes/Anthr	+++++	+++++	+++++	+++++	+++++	+++++	28.000	25.000-31.000	+++++	+++++
42 Carbazole	23.425	23.436	23.425	23.425	23.425	23.425	23.425	20.425-26.425	23.427	0.004
43 1-Methylphenanthrene	23.876	23.887	23.876	23.876	23.876	23.876	23.876	20.876-26.876	23.878	0.004
44 Fluoranthene	25.844	25.855	25.844	25.844	25.844	25.844	25.844	22.844-28.844	25.846	0.004
45 Pyrene-d10	+++++	+++++	+++++	+++++	+++++	+++++	18.628	15.628-21.628	+++++	+++++
46 Pyrene	26.702	26.713	26.702	26.702	26.702	26.702	26.702	23.702-29.702	26.704	0.004
47 Retene	+++++	+++++	+++++	+++++	+++++	+++++	17.769	14.769-20.769	+++++	+++++
48 C1-Fluoranthenes/Pyren	+++++	+++++	+++++	+++++	+++++	+++++	27.900	24.900-30.900	+++++	+++++
49 C2-Fluoranthenes/Pyren	+++++	+++++	+++++	+++++	+++++	+++++	29.000	26.000-32.000	+++++	+++++
50 C3-Fluoranthenes/Pyren	+++++	+++++	+++++	+++++	+++++	+++++	30.000	27.000-33.000	+++++	+++++
249 C4-Fluoranthenes/Pyren	+++++	+++++	+++++	+++++	+++++	+++++	33.000	30.000-36.000	+++++	+++++
51 Naphthobenzothiophene	29.256	29.267	29.257	29.256	29.257	29.256	29.256	26.256-32.256	29.258	0.004
52 C1-Naphthobenzothiophe	+++++	+++++	+++++	+++++	+++++	+++++	32.500	29.500-35.500	+++++	+++++
53 C2-Naphthobenzothiophe	+++++	+++++	+++++	+++++	+++++	+++++	33.500	30.500-36.500	+++++	+++++
54 C3-Naphthobenzothiophe	+++++	+++++	+++++	+++++	+++++	+++++	35.000	32.000-38.000	+++++	+++++
248 C4-Naphthobenzothiophe	+++++	+++++	+++++	+++++	+++++	+++++	36.000	33.000-39.000	+++++	+++++
55 Benzo(a)anthracene	29.851	29.851	29.840	29.851	29.840	29.839	29.839	26.839-32.839	29.845	0.006
\$ 56 Chrysene-d12	29.974	29.975	29.963	29.975	29.963	29.963	29.974	26.974-32.974	29.969	0.006
57 Chrysene	30.042	30.053	30.042	30.042	30.042	30.042	30.042	27.042-33.042	30.044	0.005
58 C1-Benzo(a)anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	31.000	28.000-34.000	+++++	+++++
59 C2-Benzo(a)anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	31.800	28.800-34.800	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Batch File: \\target\share\chem3\nt14.i\20201007.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
60 C3-Benzo(a)anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	33.000	30.000-36.000	+++++	+++++
61 C4-Benzo(a)anthracenes	+++++	+++++	+++++	+++++	+++++	+++++	33.200	30.200-36.200	+++++	+++++
62 Benzo(b)fluoranthene	32.272	32.283	32.261	32.272	32.261	32.261	32.272	29.272-35.272	32.268	0.009
293 Benzo(j)fluoranthene	32.374	32.396	32.374	32.385	32.374	32.374	32.374	29.374-35.374	32.379	0.009
63 Benzo(k)fluoranthene	32.317	32.328	32.317	32.317	32.317	32.317	32.317	29.317-35.317	32.319	0.005
* 251 Benzo(e)pyrene-d12	32.925	32.937	32.926	32.925	32.926	32.925	32.925	29.925-35.925	32.927	0.005
64 Benzo(e)pyrene	32.993	33.004	32.993	32.993	32.982	32.993	32.993	29.993-35.993	32.993	0.007
246 Total Benzofluoranthene	32.317	32.328	32.261	32.272	32.261	32.317	32.317	29.317-35.317	32.293	0.031
65 Benzo(a)pyrene-d12	+++++	+++++	+++++	+++++	+++++	+++++	25.348	22.348-28.348	+++++	+++++
66 Benzo(a)pyrene	33.083	33.106	33.083	33.094	33.083	33.083	33.083	30.083-36.083	33.089	0.009
67 Perylene-d12	33.263	33.275	33.264	33.263	33.264	33.263	33.263	30.263-36.263	33.265	0.005
68 Perylene	33.320	33.331	33.320	33.331	33.320	33.320	33.320	30.320-36.320	33.323	0.006
69 Indeno(1,2,3-cd)pyrene	35.257	35.279	35.257	35.268	35.257	35.257	35.257	32.257-38.257	35.263	0.009
70 Dibenzo(a,h)anthracene	35.246	35.257	35.235	35.246	35.235	35.234	35.246	32.246-38.246	35.242	0.009
71 C1-Dibenzo(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	36.000	33.000-39.000	+++++	+++++
72 C2-Dibenzo(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	37.000	34.000-40.000	+++++	+++++
73 C3-Dibenzo(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++	38.000	35.000-41.000	+++++	+++++
74 Benzo(g,h,i)perylene	36.102	36.124	36.102	36.113	36.102	36.102	36.102	33.102-39.102	36.107	0.009
253 n-Octane	+++++	+++++	+++++	+++++	+++++	+++++	5.322	2.322-8.322	+++++	+++++
254 n-Nonane	+++++	+++++	+++++	+++++	+++++	+++++	6.986	3.986-9.986	+++++	+++++
262 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	8.446	5.446-11.446	+++++	+++++
255 n-Undecane	+++++	+++++	+++++	+++++	+++++	+++++	9.869	6.869-12.869	+++++	+++++
256 n-Dodecane	+++++	+++++	+++++	+++++	+++++	+++++	11.131	8.131-14.131	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Batch File: \\target\share\chem3\nt14.i\20201007.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
257 n-Tridecane	+++++	+++++	+++++	+++++	+++++	+++++	12.527	9.527-15.527	+++++	+++++
258 n-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	13.495	10.495-16.495	+++++	+++++
259 n-Pentadecane	+++++	+++++	+++++	+++++	+++++	+++++	14.559	11.559-17.559	+++++	+++++
263 n-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	15.570	12.570-18.570	+++++	+++++
264 n-Heptadecane	+++++	+++++	+++++	+++++	+++++	+++++	16.533	13.533-19.533	+++++	+++++
265 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	17.453	14.453-20.453	+++++	+++++
266 Pristane	+++++	+++++	+++++	+++++	+++++	+++++	16.608	13.608-19.608	+++++	+++++
288 n-Nonadecane	+++++	+++++	+++++	+++++	+++++	+++++	18.282	15.282-21.282	+++++	+++++
289 Phytane	+++++	+++++	+++++	+++++	+++++	+++++	17.517	14.517-20.517	+++++	+++++
267 n-Eicosane	+++++	+++++	+++++	+++++	+++++	+++++	19.090	16.090-22.090	+++++	+++++
268 n-Heneicosane	+++++	+++++	+++++	+++++	+++++	+++++	19.962	16.962-22.962	+++++	+++++
270 n-Docosane	+++++	+++++	+++++	+++++	+++++	+++++	20.529	17.529-23.529	+++++	+++++
271 n-Tricosane	+++++	+++++	+++++	+++++	+++++	+++++	21.133	18.133-24.133	+++++	+++++
272 n-Tetracosane	+++++	+++++	+++++	+++++	+++++	+++++	21.839	18.839-24.839	+++++	+++++
273 n-Pentacosane	+++++	+++++	+++++	+++++	+++++	+++++	22.245	19.245-25.245	+++++	+++++
274 n-Hexacosane	+++++	+++++	+++++	+++++	+++++	+++++	23.251	20.251-26.251	+++++	+++++
275 n-Heptacosane	+++++	+++++	+++++	+++++	+++++	+++++	23.764	20.764-26.764	+++++	+++++
276 n-Octacosane	+++++	+++++	+++++	+++++	+++++	+++++	24.128	21.128-27.128	+++++	+++++
291 n-Nonacosane	+++++	+++++	+++++	+++++	+++++	+++++	24.626	21.626-27.626	+++++	+++++
278 n-Triacontane	+++++	+++++	+++++	+++++	+++++	+++++	25.075	22.075-28.075	+++++	+++++
279 n-Hentriacontane	+++++	+++++	+++++	+++++	+++++	+++++	25.519	22.519-28.519	+++++	+++++
280 n-Dotriacontane	+++++	+++++	+++++	+++++	+++++	+++++	25.952	22.952-28.952	+++++	+++++
281 n-Tritriacontane	+++++	+++++	+++++	+++++	+++++	+++++	26.364	23.364-29.364	+++++	+++++
282 n-Tetratriacontane	+++++	+++++	+++++	+++++	+++++	+++++	26.829	23.829-29.829	+++++	+++++

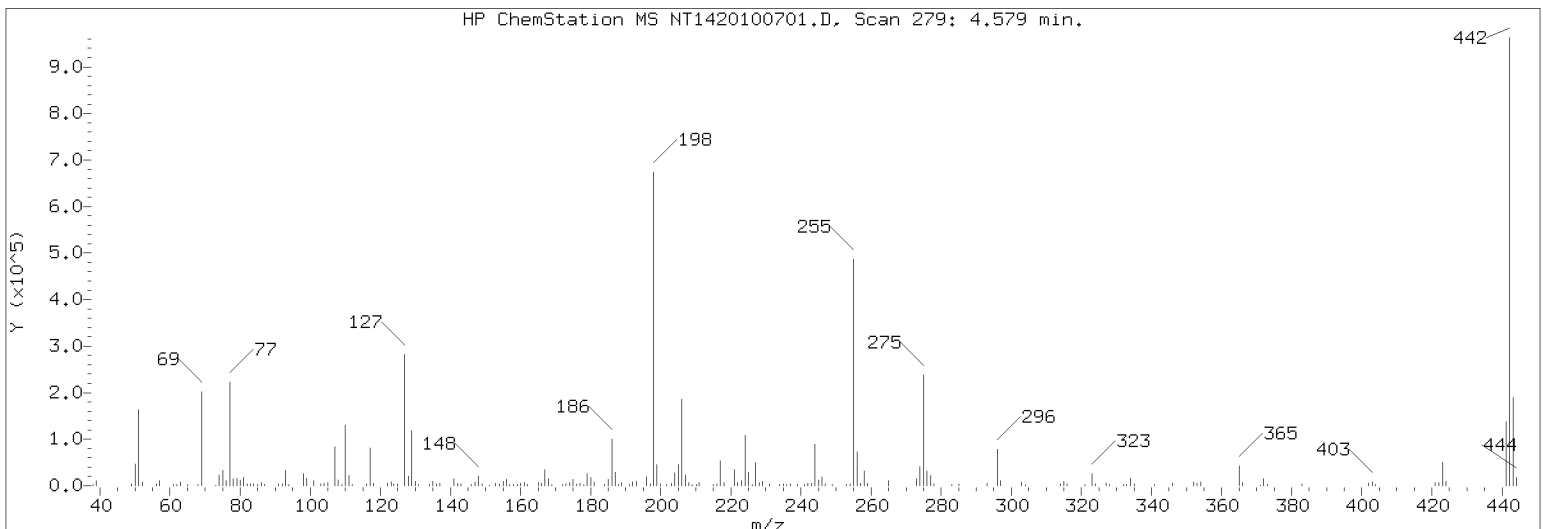
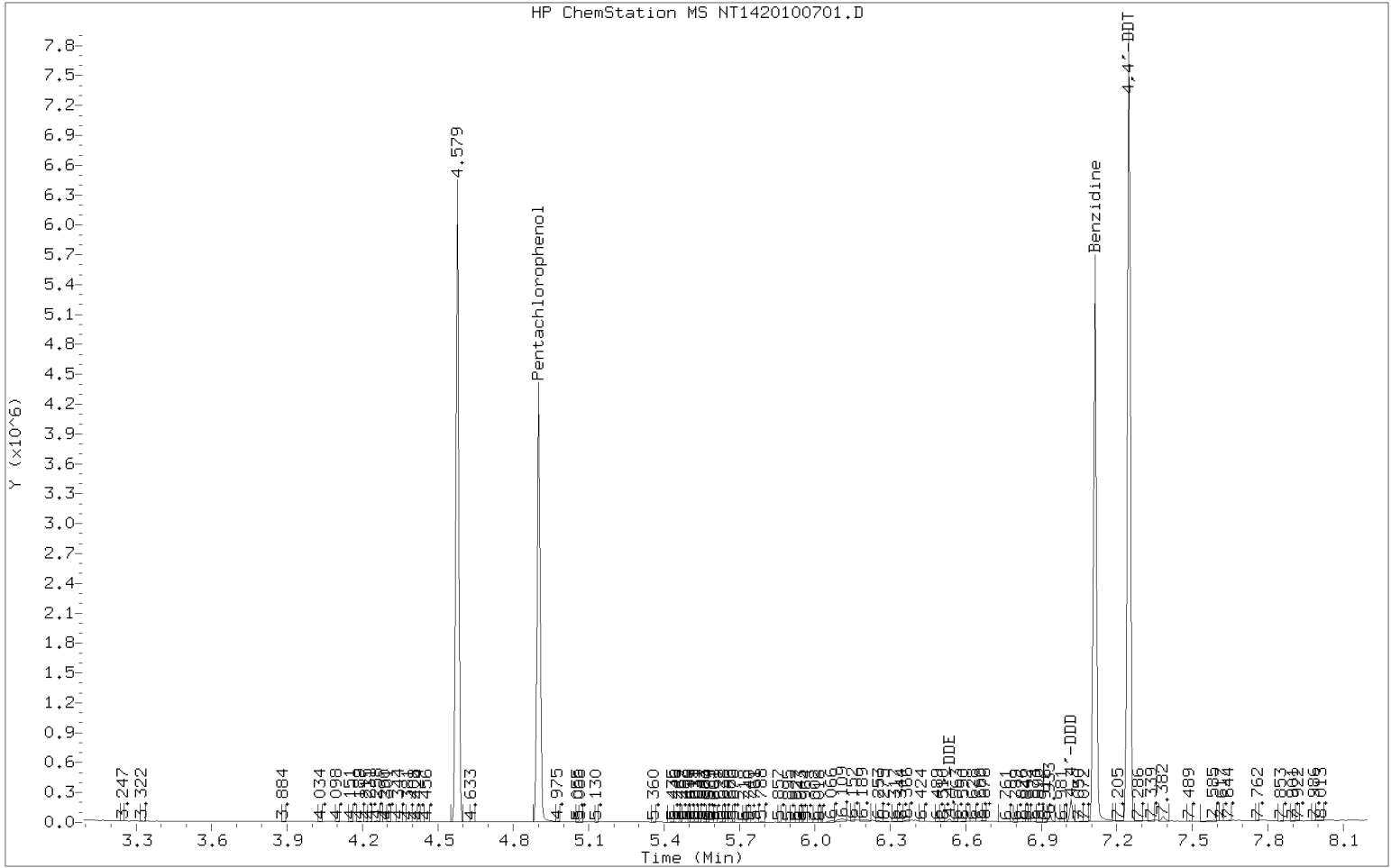
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Batch File: \\target\share\chem3\nt14.i\20201007.b
 Inst ID: nt14.i

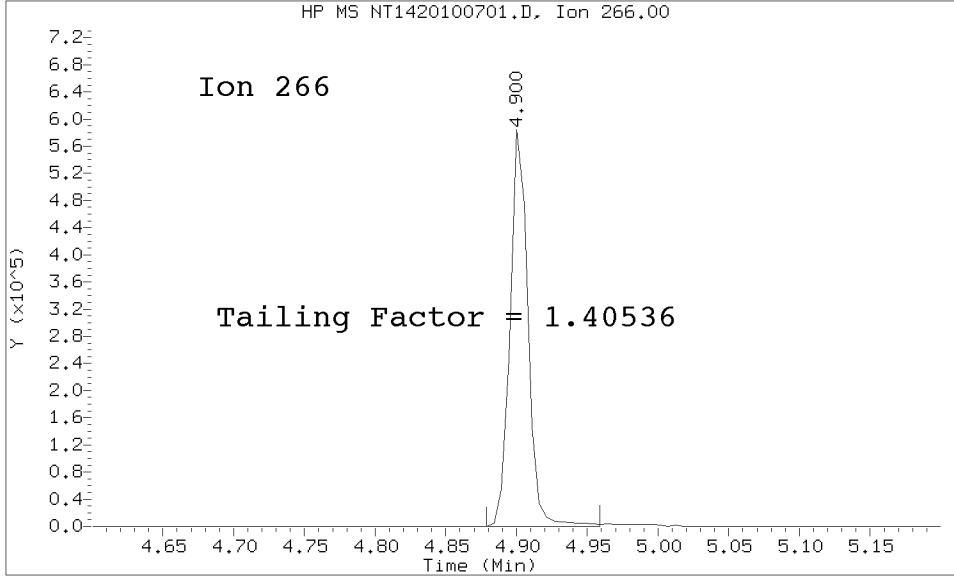
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
283 n-Pentatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	27.370	24.370-30.370	+++++	+++++
284 n-Hexatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	27.936	24.936-30.936	+++++	+++++
285 n-Heptatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	28.578	25.578-31.578	+++++	+++++
286 n-Octatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	29.295	26.295-32.295	+++++	+++++
292 n-Nonatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	30.135	27.135-33.135	+++++	+++++
287 n-Tetracontane	+++++	+++++	+++++	+++++	+++++	+++++	31.103	28.103-34.103	+++++	+++++

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20201007.b/NT1420100701.D/NT1420100701.D
 Method Used: \20201007.b\DFTPP8270E.m Inst: nt14
 Injection Date: 07-OCT-2020 10:11 Operator: VTS
 Sample Info: SIJ0085-TUN1 SIJ0085-TUN1
 Report Date: 10/09/2020 08:53



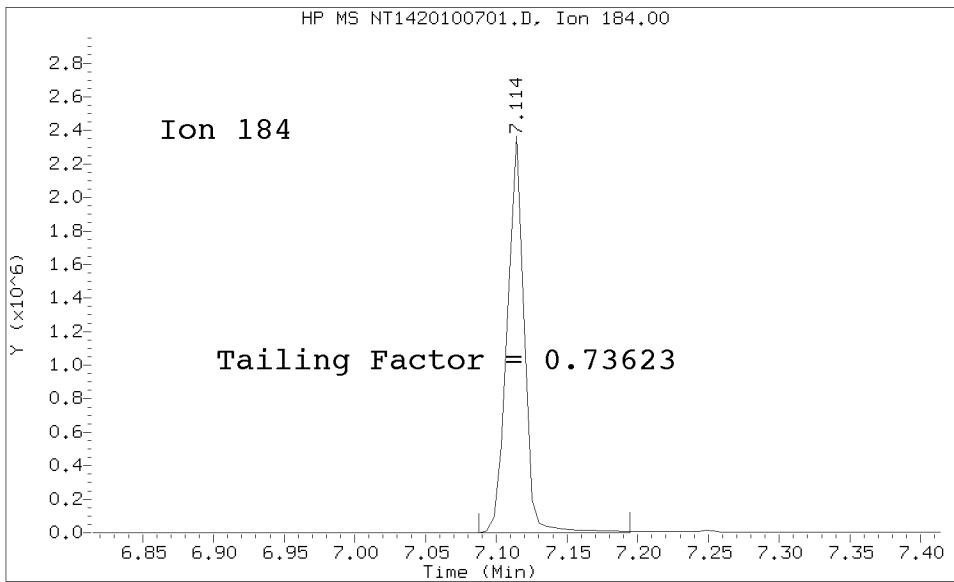
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Injection Date: 07-OCT-2020 10:11 Operator: JZ
Sample Info: SIJ0XXX-TUN1
Report Date: 10/09/2020 08:53



Pentachlorophenol

=====
Exp. RT = 4.900
Found RT = 4.900

Tail Factor = 1.405 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.114
Found RT = 7.114

Tail Factor = 0.736 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.4053628	2.000	PASS
Benzidine	0.7362251	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1276129			N/A
4,4-DDE	4051	0.3	20.0	PASS
4,4-DDD	44055	3.3	20.0	PASS
4,4-DDD + DDE	48106	3.6	20.0	PASS

Tuning Sample, nt14.i/20201007.b/NT1420100701.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	0.46 (1.44)
69	Mass 69 relative abundance	31.94
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.46
199	5.00 - 9.00% of mass 198	6.65
365	1.00 - 100.00% of mass 198	6.47
441	Less than 150.00% of mass 443	20.20 (73.33)
442	Less than 200.00% of mass 198	140.95
443	15.00 - 24.00% of mass 442	27.55 (19.55)

Data File: NT1420100701.D
 Spectrum: Avg. Scans 278-280 (4.58), Background Scan 272
 Location of Maximum: 442.00
 Number of points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	1611	124.00	2560	192.00	6276	265.00	8748
39.00	9098	125.00	2264	193.00	7013	273.00	11379
49.00	1311	127.00	207552	196.00	13832	274.00	29256
50.00	36736	128.00	15932	197.00	2232	275.00	165312
51.00	126848	129.00	87728	198.00	484288	276.00	22296
52.00	6325	130.00	7692	199.00	32224	277.00	15785
56.00	3265	131.00	771	200.00	2133	278.00	2083
57.00	8731	134.00	2232	201.00	1677	283.00	874
61.00	700	135.00	7259	203.00	3939	285.00	2151
62.00	1786	136.00	2444	204.00	19424	293.00	3634
63.00	5960	137.00	3313	205.00	33120	296.00	57720
65.00	2324	141.00	12142	206.00	132480	297.00	7735
68.00	2223	142.00	3147	207.00	17392	303.00	6179
69.00	154688	143.00	2464	208.00	4908	304.00	859
73.00	681	146.00	1704	209.00	788	314.00	2768
74.00	17208	147.00	6505	210.00	1771	315.00	6881
75.00	25608	148.00	15223	211.00	4926	316.00	3382
76.00	8556	149.00	2441	215.00	735	321.00	838
77.00	170112	151.00	682	216.00	2464	323.00	17976
78.00	11515	153.00	3408	217.00	37960	324.00	3192
79.00	13007	154.00	2639	218.00	4860	327.00	3669
80.00	9780	155.00	7087	221.00	23352	328.00	869
81.00	13272	156.00	10365	222.00	5324	332.00	731
82.00	3125	157.00	1486	223.00	8424	333.00	733
83.00	2765	158.00	1763	224.00	78312	334.00	11934
84.00	662	159.00	1503	225.00	19896	335.00	3109
85.00	2045	160.00	4069	226.00	1790	341.00	908
86.00	5760	161.00	5581	227.00	35384	346.00	4456
87.00	1727	162.00	729	228.00	5126	352.00	5824
91.00	2838	165.00	4905	229.00	7313	353.00	3740
92.00	2840	166.00	3054	231.00	2278	354.00	5874
93.00	24904	167.00	25360	234.00	1819	365.00	31344
94.00	1429	168.00	11411	235.00	2079	366.00	4724
98.00	19440	169.00	1727	236.00	1466	371.00	678
99.00	13142	172.00	1787	237.00	2042	372.00	10553
101.00	7647	173.00	2530	239.00	719	373.00	1846
103.00	2165	174.00	5454	241.00	989	383.00	2091
104.00	4836	175.00	9785	242.00	4264	402.00	4064
105.00	4897	176.00	2246	243.00	4691	403.00	5510
106.00	697	177.00	4153	244.00	63136	404.00	1571
107.00	63464	178.00	745	245.00	8415	421.00	5059
108.00	9088	179.00	19048	246.00	14109	422.00	4905
109.00	1552	180.00	13423	247.00	2271	423.00	36056
110.00	98656	181.00	6161	249.00	1833	424.00	6636
111.00	16440	184.00	1429	253.00	750	441.00	97848
112.00	1866	185.00	10069	254.00	1955	442.00	682624
116.00	3130	186.00	71968	255.00	344640	443.00	133440
117.00	62280	187.00	20688	256.00	51192	444.00	12305
118.00	4682	188.00	1797	257.00	4076		

122.00	3721	189.00	4659	258.00	22792	
123.00	6613	191.00	1774	259.00	3624	

Data File: \\target\share\chem3\nt14,1\20201007,16\NT1420100702.D

Date: 07-OCT-2020 10:24

Client ID:

Sample Info: S100085-CAL4

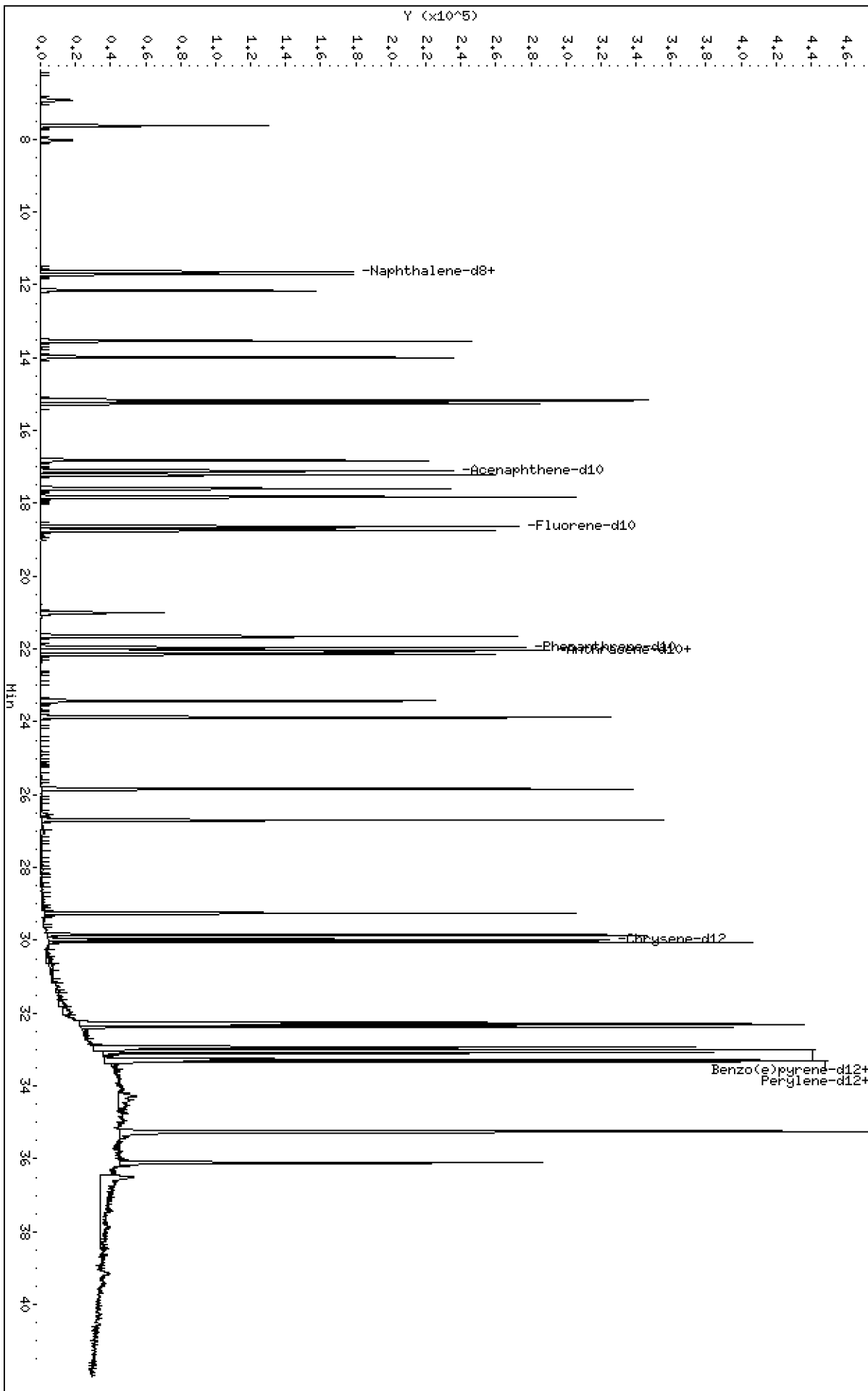
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100702.D
 Lab Smp Id: SIJ0085-CAL4
 Inj Date : 07-OCT-2020 10:24
 Operator : VTS
 Smp Info : SIJ0085-CAL4
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 5
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
1 trans-Decalin	138		6.924	6.934	(0.372)	26838	2.50000	2.709
2 cis-Decalin	138		8.034	8.034	(0.431)	20372	2.50000	2.733
\$ 6 Naphthalene-d8	136		11.641	11.641	(0.625)	247650	2.50000	2.560
7 Naphthalene	128		11.707	11.707	(0.628)	244225	2.50000	2.524
12 Benzo(b)thiophene	134		12.157	12.157	(0.652)	201340	2.50000	2.476
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	151762	2.50000	2.573
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	146460	2.50000	2.467
18 Biphenyl	154		15.179	15.179	(0.815)	225742	2.50000	2.543
19 2,6-Dimethylnaphthalene	156		15.256	15.256	(0.819)	168384	2.50000	2.598
20 Acenaphthylene	152		16.817	16.817	(0.903)	278836	2.50000	2.624
\$ 21 Acenaphthene-d10	164		17.103	17.103	(0.918)	150147	2.50000	2.585
22 Acenaphthene	153		17.223	17.223	(0.924)	178431	2.50000	2.563
23 Dibenzofuran	168		17.597	17.597	(0.944)	259199	2.50000	2.566
24 1,6,7-Trimethylnaphthalene	170		17.828	17.828	(0.957)	173764	2.50000	2.644
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	237050	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	204910	2.50000	2.602
30 Dibenzothiophene	184		21.648	21.648	(1.162)	290170	2.50000	2.561
\$ 35 Phenanthrene-d10	188		21.963	21.963	(0.995)	271421	2.50000	2.615
36 Phenanthrene	178		22.039	22.040	(0.999)	300688	2.50000	2.506
* 250 Anthracene-d10	188		22.072	22.072	(1.000)	216685	2.00000	
37 Anthracene	178		22.149	22.138	(1.003)	296640	2.50000	2.515
42 Carbazole	167		23.425	23.425	(1.061)	264968	2.50000	2.594
43 1-Methylphenanthrene	192		23.875	23.875	(1.082)	230749	2.50000	2.620
44 Fluoranthene	202		25.843	25.843	(1.171)	346564	2.50000	2.617
46 Pyrene	202		26.701	26.701	(1.210)	357425	2.50000	2.557
51 Naphthobenzothiophene	234		29.256	29.256	(1.325)	330482	2.50000	2.594
55 Benzo(a)anthracene	228		29.850	29.839	(0.907)	352397	2.50000	2.618
\$ 56 Chrysene-d12	240		29.974	29.974	(0.910)	259145	2.50000	2.437
57 Chrysene	228		30.042	30.042	(0.912)	338561	2.50000	2.530
62 Benzo(b)fluoranthene	252		32.272	32.272	(0.980)	400893	2.50000	2.638 (M)
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	359939	2.50000	2.349 (M)
293 Benzo(j)fluoranthene	252		32.373	32.373	(0.983)	351328	2.50000	2.624
246 Total Benzofluoranthenes	252		32.317	32.317	(0.982)	1088182	7.50000	7.716 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
* 251 Benzo(e)pyrene-d12	264	32.925	32.925	(1.000)	311824	2.00000		
64 Benzo(e)pyrene	252	32.993	32.993	(1.002)	353756	2.50000	2.542	
66 Benzo(a)pyrene	252	33.083	33.083	(1.005)	344423	2.50000	2.619	
\$ 67 Perylene-d12	264	33.263	33.263	(1.010)	324439	2.50000	2.516	
68 Perylene	252	33.319	33.319	(1.012)	362063	2.50000	2.622	
69 Indeno(1,2,3-cd)pyrene	276	35.256	35.256	(1.071)	416492	2.50000	2.558 (M)	
70 Dibenzo(a,h)anthracene	278	35.245	35.245	(1.070)	379382	2.50000	2.637	
74 Benzo(g,h,i)perylene	276	36.101	36.101	(1.096)	369075	2.50000	2.580	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100702.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	237050	13.10
250 Anthracene-d10	192407	96204	384814	216685	12.62
251 Benzo(e)pyrene-d1	274120	137060	548240	311824	13.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	-0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	-0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	-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 - NT1420100702.D

Lab ID: SIJ0085-CAL4

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 10:24

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

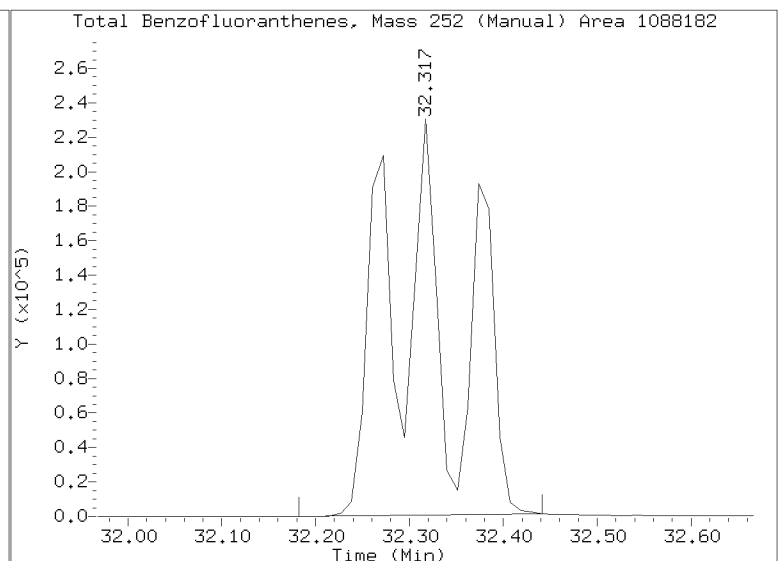
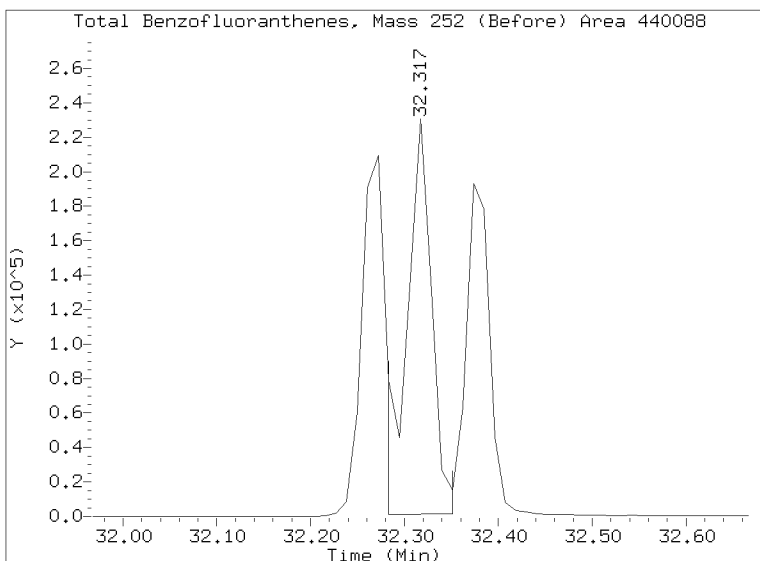
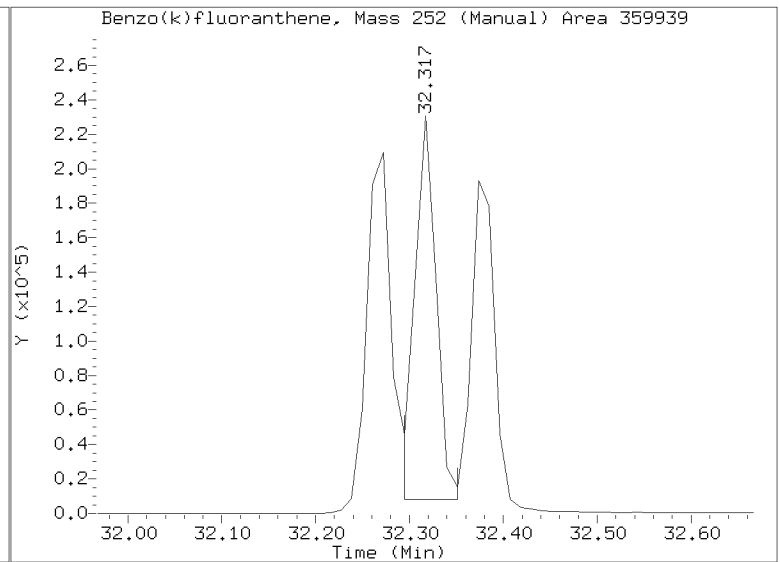
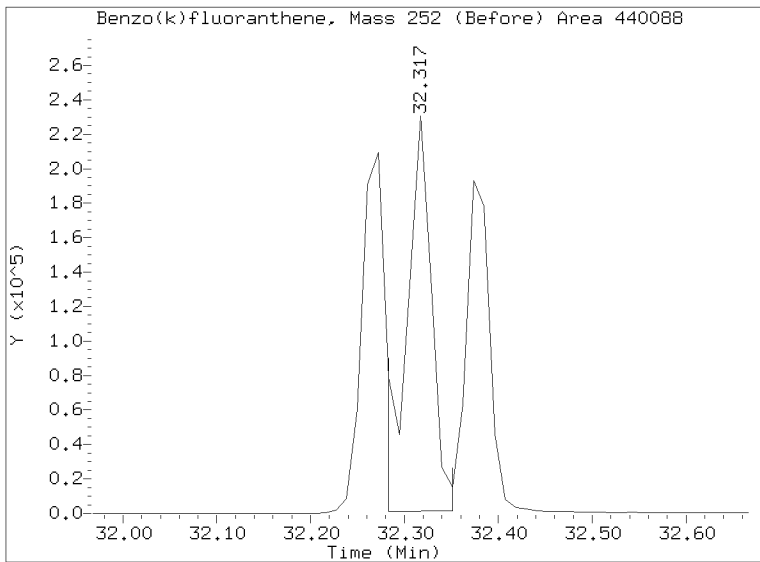
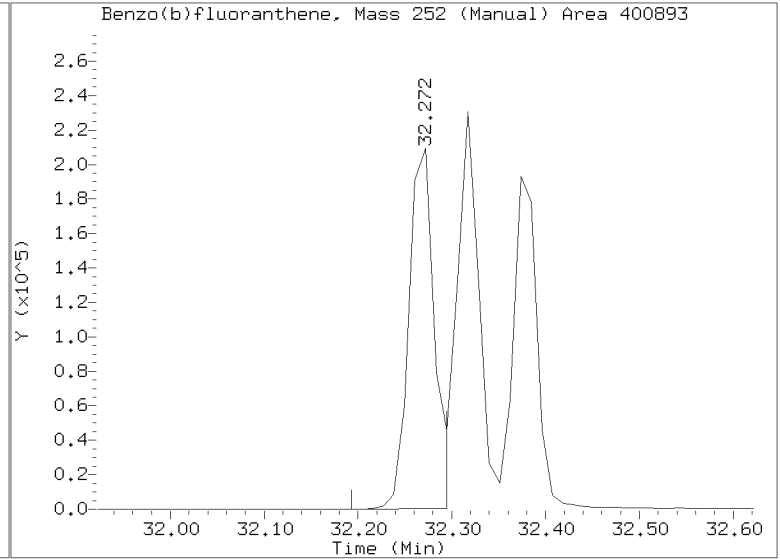
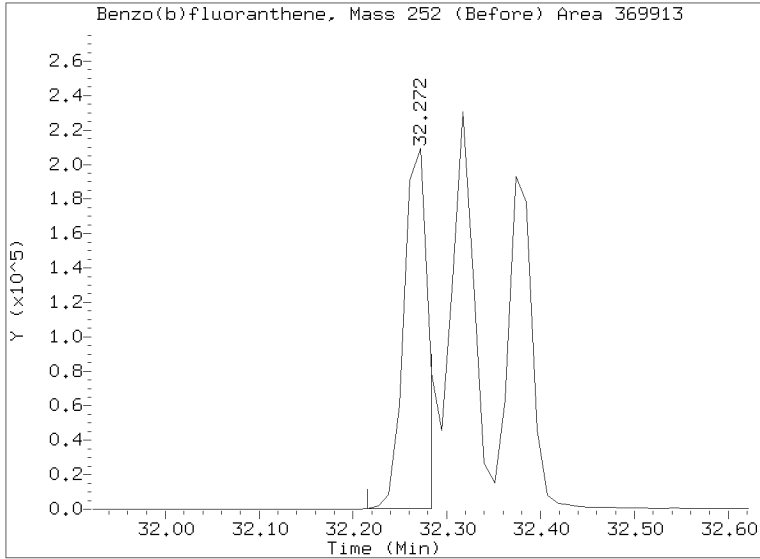
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100702.D
Injection Date: 07-OCT-2020 10:24
Lab ID:SIJ0085-CAL4 Client ID:
Report Date: 10/09/2020 08:50



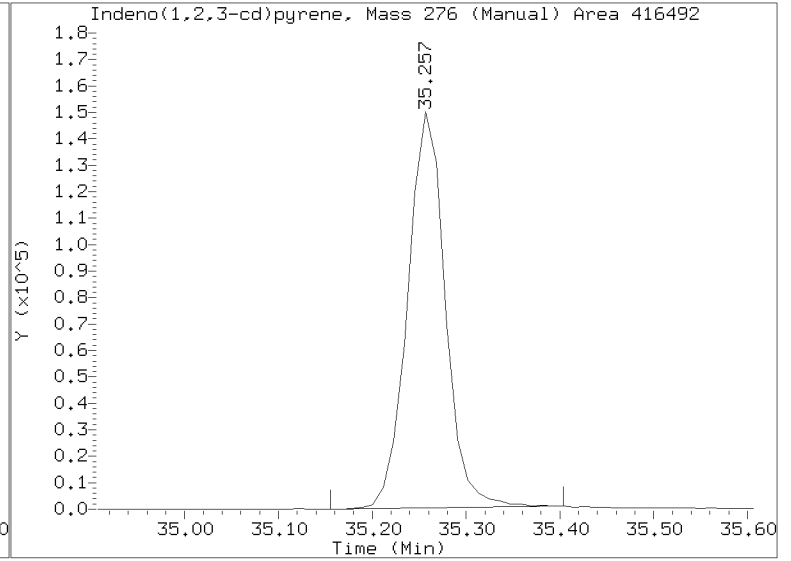
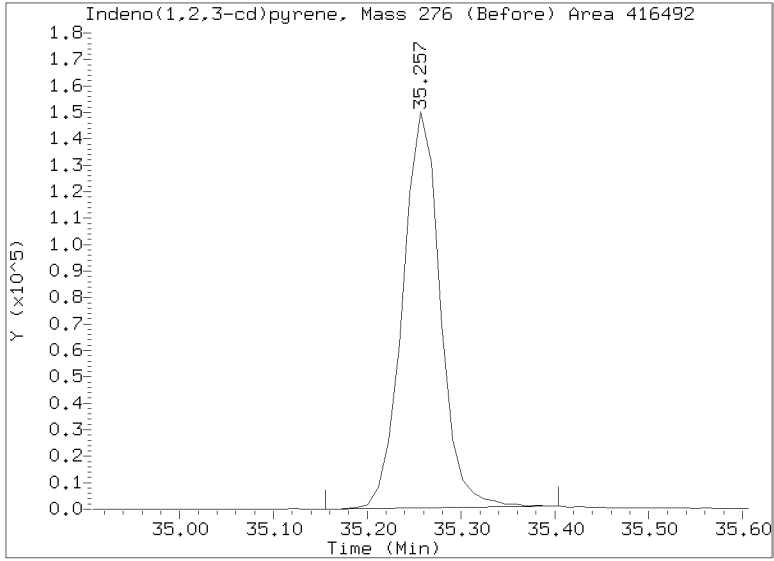
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100702.D

Injection Date: 07-OCT-2020 10:24

Lab ID:SIJ0085-CAL4 Client ID:

Report Date: 10/09/2020 08:50



Data File: \\target\share\chem3\nt14,1\20201007,6\NT1420100703.D

Date : 07-OCT-2020 11:48

Client ID:

Sample Info: S100085-CAL6

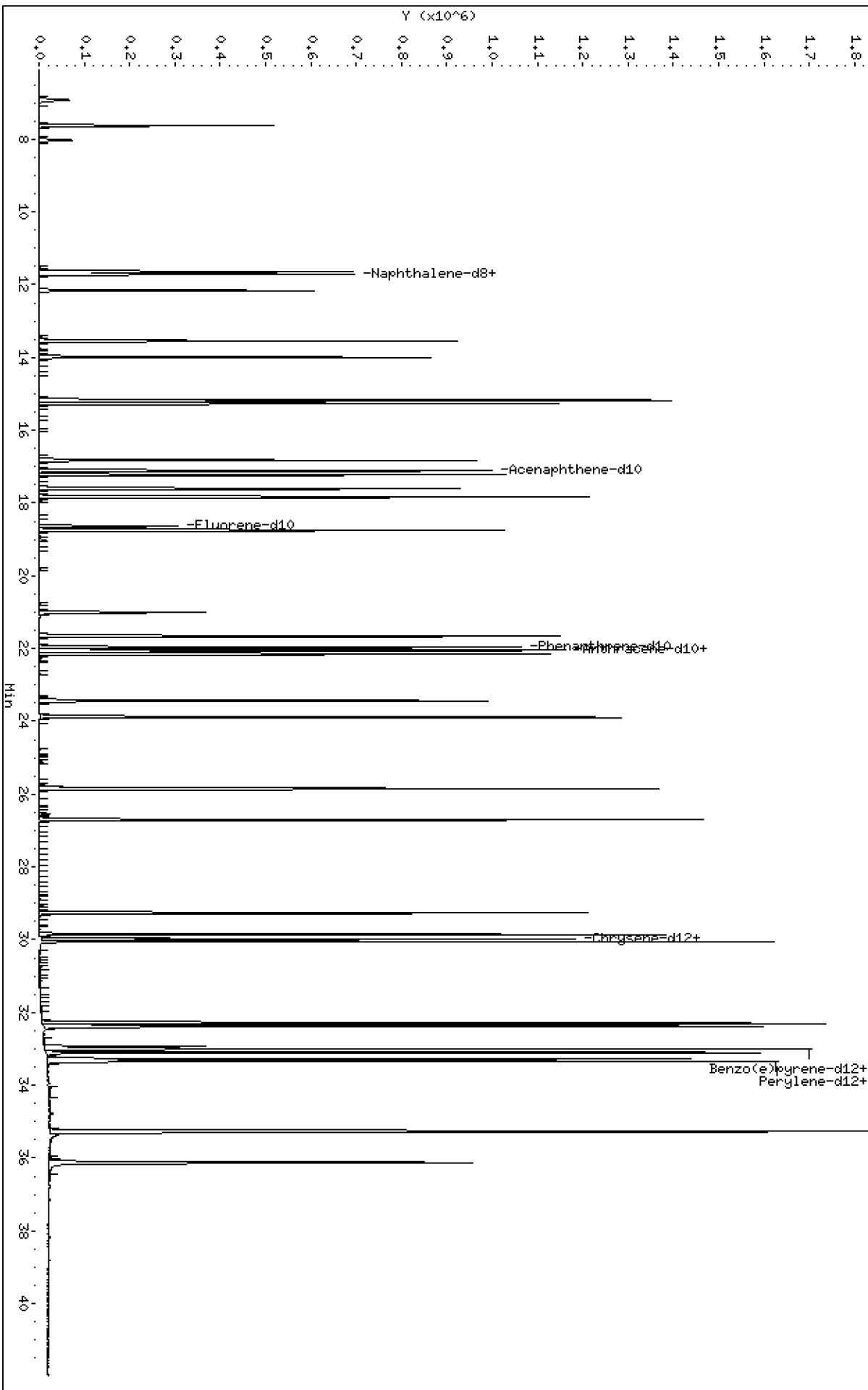
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100703.D
 Lab Smp Id: SIJ0085-CAL6
 Inj Date : 07-OCT-2020 11:48
 Operator : VTS
 Smp Info : SIJ0085-CAL6
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 7
 Compound Sublist: TARGETS.sub

Compounds	QUANT SIG			AMOUNTS			
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.924	6.934	(0.371)	105286	10.0000	10.36
2 cis-Decalin	138	8.034	8.034	(0.431)	79916	10.0000	10.45
\$ 6 Naphthalene-d8	136	11.652	11.641	(0.625)	967993	10.0000	9.754
7 Naphthalene	128	11.718	11.707	(0.629)	940361	10.0000	9.471
12 Benzo(b)thiophene	134	12.157	12.157	(0.652)	806656	10.0000	9.669
16 2-Methylnaphthalene	141	13.553	13.542	(0.727)	595209	10.0000	9.834
17 1-methylnaphthalene	141	13.992	13.992	(0.751)	569676	10.0000	9.995
18 Biphenyl	154	15.190	15.179	(0.815)	901448	10.0000	9.896
19 2,6-Dimethylnaphthalene	156	15.267	15.256	(0.819)	651605	10.0000	9.798
20 Acenaphthylene	152	16.828	16.817	(0.903)	1120646	10.0000	10.28
\$ 21 Acenaphthene-d10	164	17.114	17.103	(0.918)	595154	10.0000	9.987
22 Acenaphthene	153	17.223	17.223	(0.924)	709735	10.0000	9.936
23 Dibenzofuran	168	17.608	17.597	(0.944)	1033337	10.0000	9.971
24 1,6,7-Trimethylnaphthalene	170	17.828	17.828	(0.956)	683302	10.0000	10.13
* 25 Fluorene-d10	176	18.644	18.632	(1.000)	243221	2.00000	
26 Fluorene	166	18.746	18.746	(1.005)	803780	10.0000	9.949
30 Dibenzothiophene	184	21.660	21.648	(1.162)	1167085	10.0000	10.04
\$ 35 Phenanthrene-d10	188	21.974	21.963	(0.995)	1076417	10.0000	9.910
36 Phenanthrene	178	22.051	22.040	(0.999)	1189824	10.0000	9.474
* 250 Anthracene-d10	188	22.083	22.072	(1.000)	226778	2.00000	
37 Anthracene	178	22.149	22.138	(1.003)	1194371	10.0000	9.677
42 Carbazole	167	23.436	23.425	(1.061)	1062535	10.0000	9.941
43 1-Methylphenanthrene	192	23.886	23.875	(1.082)	931522	10.0000	10.11
44 Fluoranthene	202	25.854	25.843	(1.171)	1417885	10.0000	10.23
46 Pyrene	202	26.712	26.701	(1.210)	1497643	10.0000	10.24
51 Naphthobenzothiophene	234	29.267	29.256	(1.325)	1356296	10.0000	10.17
55 Benzo(a)anthracene	228	29.850	29.839	(0.906)	1427914	10.0000	10.50
\$ 56 Chrysene-d12	240	29.974	29.974	(0.910)	1042800	10.0000	9.707
57 Chrysene	228	30.053	30.042	(0.912)	1376082	10.0000	10.18
62 Benzo(b)fluoranthene	252	32.283	32.272	(0.980)	1652832	10.0000	10.76 (M)
63 Benzo(k)fluoranthene	252	32.328	32.317	(0.982)	1557489	10.0000	10.06 (M)
293 Benzo(j)fluoranthene	252	32.396	32.373	(0.984)	1390794	10.0000	10.28 (M)
246 Total Benzofluoranthenes	252	32.328	32.317	(0.982)	4514074	30.0000	31.68 (M)

Compounds	QUANT SIG							AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)		
* 251 Benzo(e)pyrene-d12	264	32.936	32.925	(1.000)	315078	2.00000			
64 Benzo(e)pyrene	252	33.004	32.993	(1.002)	1467097	10.0000	10.43		
66 Benzo(a)pyrene	252	33.105	33.083	(1.005)	1433315	10.0000	10.79		
\$ 67 Perylene-d12	264	33.274	33.263	(1.010)	1310919	10.0000	10.06		
68 Perylene	252	33.330	33.319	(1.012)	1444636	10.0000	10.35		
69 Indeno(1,2,3-cd)pyrene	276	35.279	35.256	(1.071)	1779209	10.0000	10.81		
70 Dibenzo(a,h)anthracene	278	35.256	35.245	(1.070)	1617196	10.0000	11.13		
74 Benzo(g,h,i)perylene	276	36.124	36.101	(1.097)	1507736	10.0000	10.43		

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100703.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	243221	16.04
250 Anthracene-d10	192407	96204	384814	226778	17.86
251 Benzo(e)pyrene-d1	274120	137060	548240	315078	14.94

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.64	0.06
250 Anthracene-d10	22.07	21.57	22.57	22.08	0.05
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.94	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 - NT1420100703.D

Lab ID: SIJ0085-CAL6

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 11:48

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

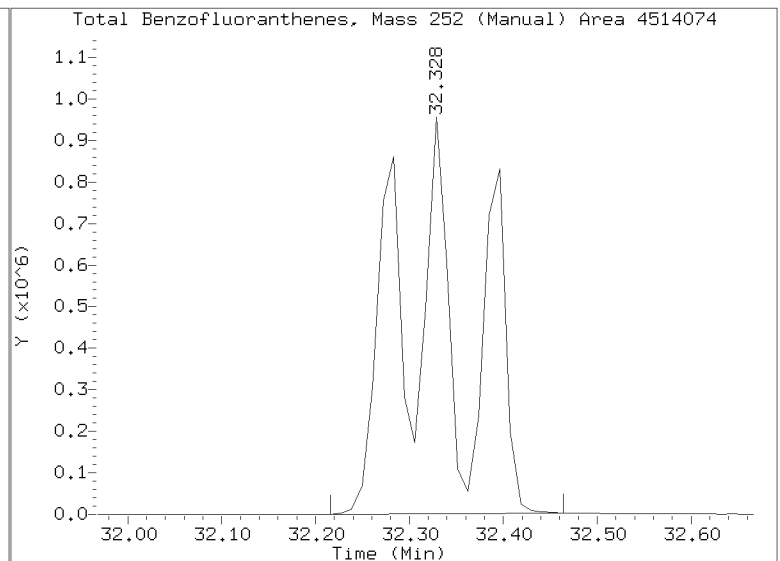
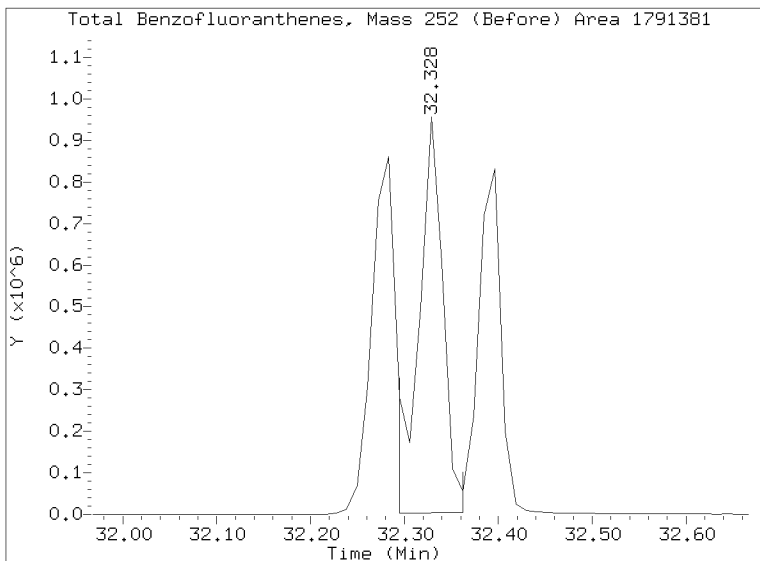
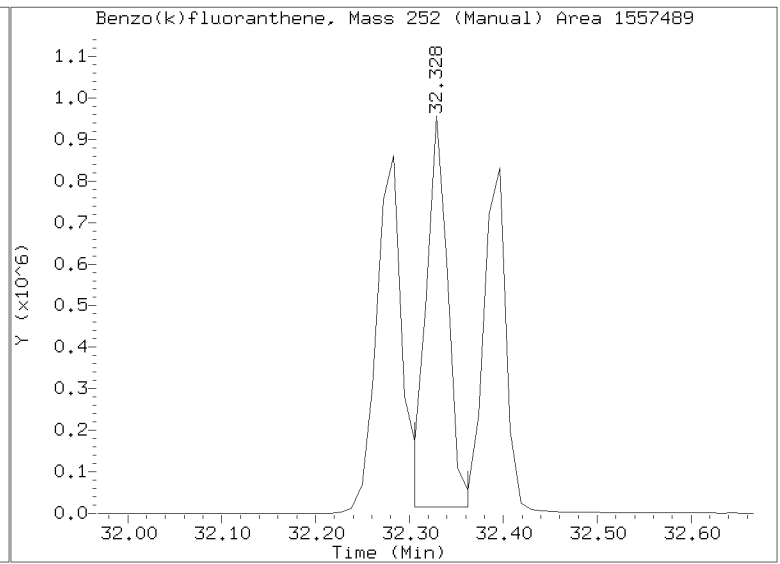
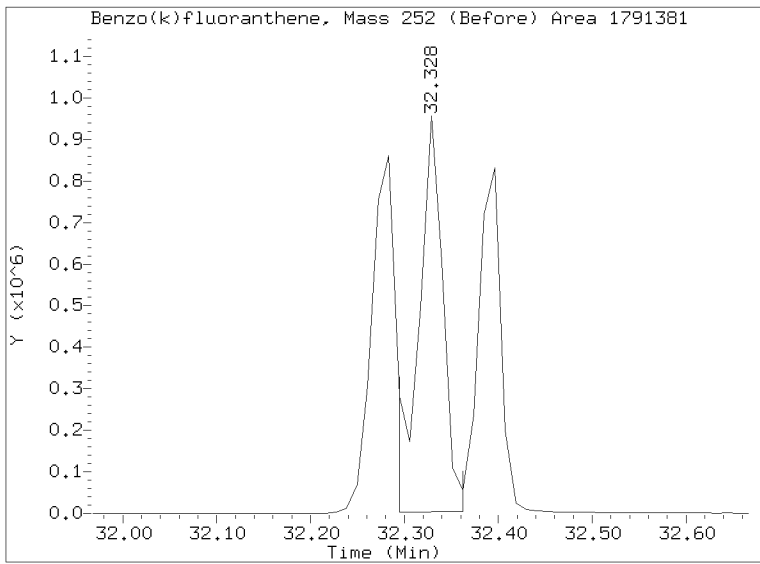
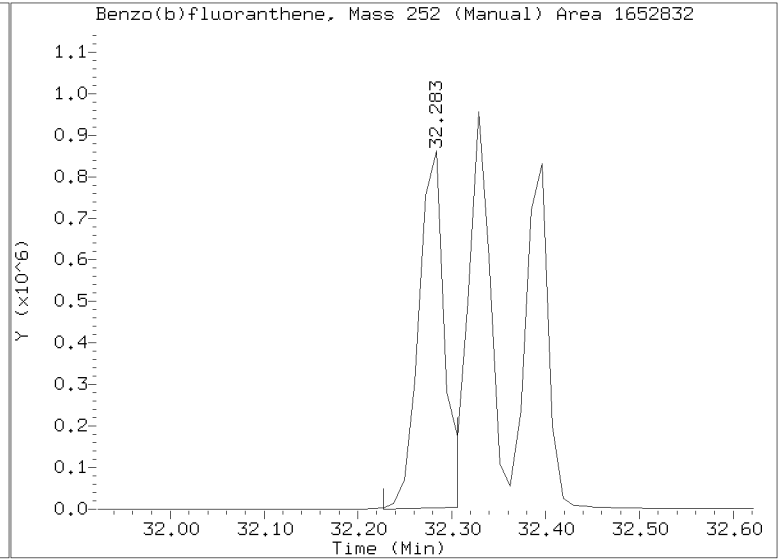
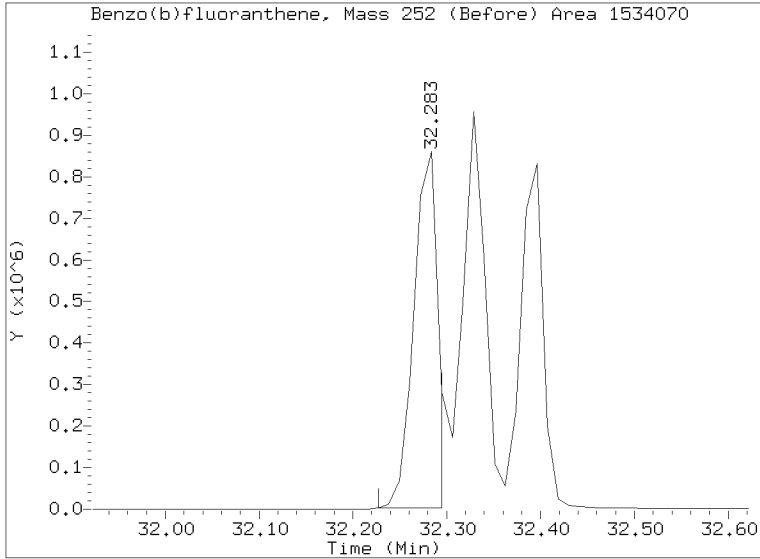
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100703.D
Injection Date: 07-OCT-2020 11:48
Lab ID:SIJ0085-CAL6 Client ID:
Report Date: 10/09/2020 08:50



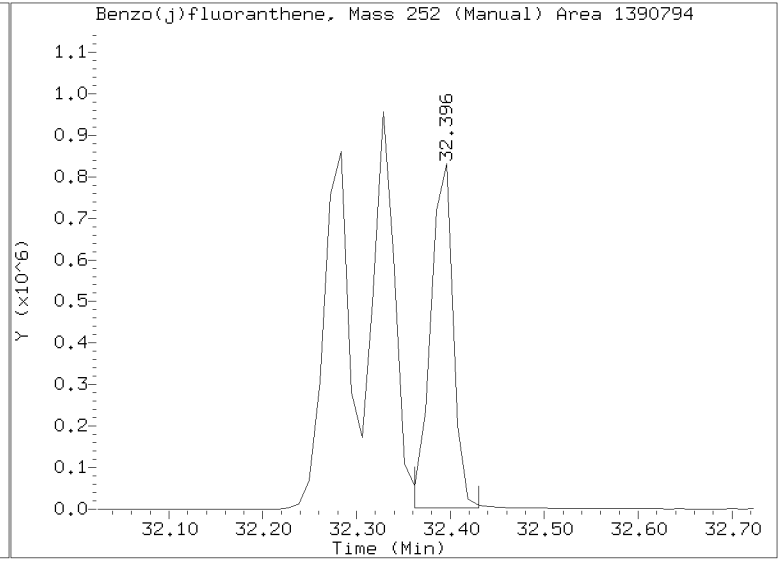
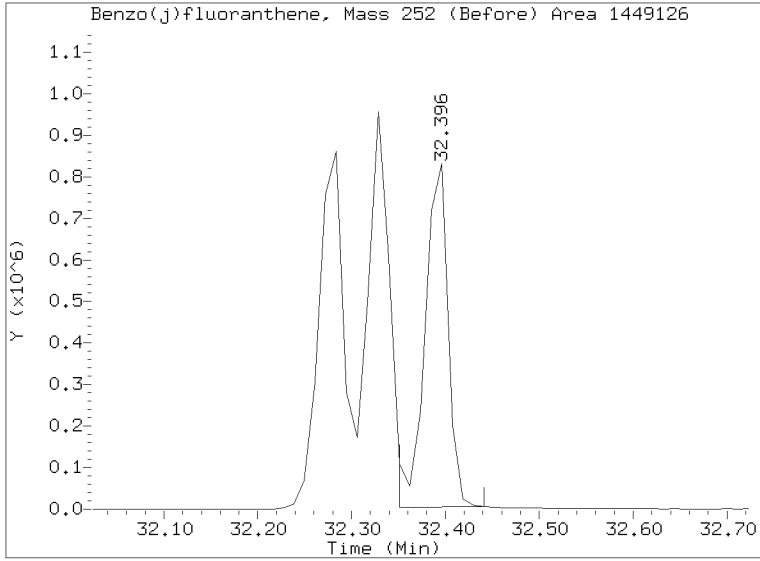
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100703.D

Injection Date: 07-OCT-2020 11:48

Lab ID:SIJ0085-CAL6 Client ID:

Report Date: 10/09/2020 08:50



Data File: \\target\share\chem3\nt14,1\20201007,16\NT1420100704.D

Date : 07-OCT-2020 12:38

Client ID:

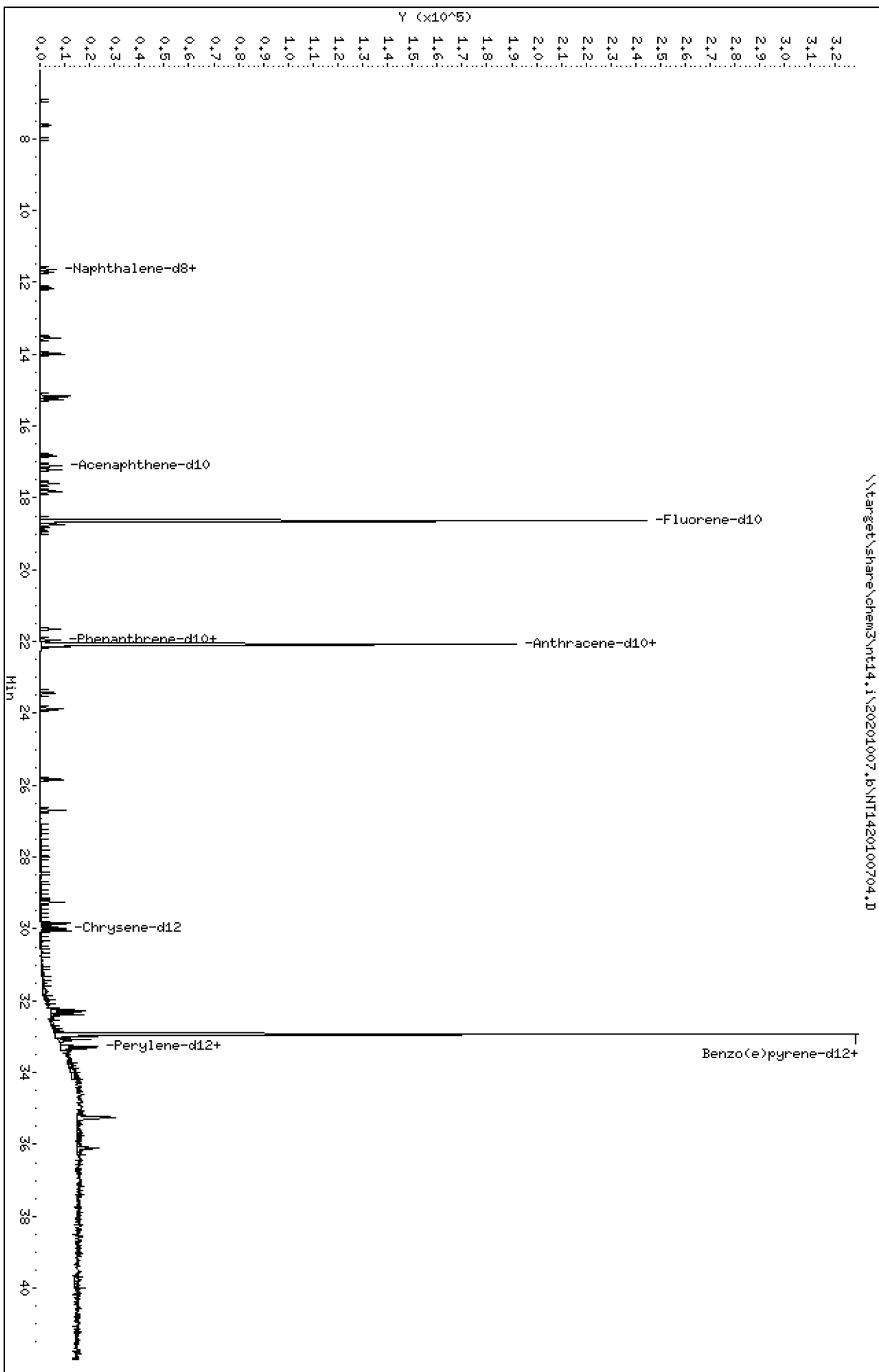
Sample Info: S100085-CALL

Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100704.D
 Lab Smp Id: SIJ0085-CAL1
 Inj Date : 07-OCT-2020 12:38
 Operator : VTS
 Smp Info : SIJ0085-CAL1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 1
 Compound Sublist: TARGETS.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.934	6.934	(0.372)	766	0.10000	0.08346
2 cis-Decalin	138	8.034	8.034	(0.431)	571	0.10000	0.08268 (M)
\$ 6 Naphthalene-d8	136	11.641	11.641	(0.625)	9430	0.10000	0.1052
7 Naphthalene	128	11.707	11.707	(0.628)	9141	0.10000	0.1020
12 Benzo(b)thiophene	134	12.157	12.157	(0.652)	8222	0.10000	0.1092
16 2-Methylnaphthalene	141	13.542	13.542	(0.727)	5687	0.10000	0.1041
17 1-methylnaphthalene	141	13.993	13.992	(0.751)	7676	0.10000	0.1363
18 Biphenyl	154	15.180	15.179	(0.815)	8706	0.10000	0.1059
19 2,6-Dimethylnaphthalene	156	15.256	15.256	(0.819)	5478	0.10000	0.09124
20 Acenaphthylene	152	16.817	16.817	(0.903)	9949	0.10000	0.1011
\$ 21 Acenaphthene-d10	164	17.103	17.103	(0.918)	5216	0.10000	0.09694
22 Acenaphthene	153	17.224	17.223	(0.924)	6473	0.10000	0.1004
23 Dibenzofuran	168	17.597	17.597	(0.944)	9414	0.10000	0.1006
24 1,6,7-Trimethylnaphthalene	170	17.828	17.828	(0.957)	5882	0.10000	0.09663
* 25 Fluorene-d10	176	18.632	18.632	(1.000)	219599	2.00000	
26 Fluorene	166	18.746	18.746	(1.006)	7135	0.10000	0.09782
30 Dibenzothiophene	184	21.648	21.648	(1.162)	10466	0.10000	0.09970
\$ 35 Phenanthrene-d10	188	21.963	21.963	(0.995)	9226	0.10000	0.09659 (M)
36 Phenanthrene	178	22.040	22.040	(0.999)	11697	0.10000	0.1059
* 250 Anthracene-d10	188	22.073	22.072	(1.000)	199428	2.00000	
37 Anthracene	178	22.139	22.138	(1.003)	12429	0.10000	0.1145
42 Carbazole	167	23.425	23.425	(1.061)	9735	0.10000	0.1036
43 1-Methylphenanthrene	192	23.876	23.875	(1.082)	7650	0.10000	0.09437
44 Fluoranthene	202	25.844	25.843	(1.171)	12325	0.10000	0.1011
46 Pyrene	202	26.701	26.701	(1.210)	13276	0.10000	0.1032
51 Naphthobenzothiophene	234	29.256	29.256	(1.325)	11379	0.10000	0.09706
55 Benzo(a)anthracene	228	29.839	29.839	(0.906)	12512	0.10000	0.1015
\$ 56 Chrysene-d12	240	29.963	29.974	(0.910)	10937	0.10000	0.1123
57 Chrysene	228	30.042	30.042	(0.912)	12311	0.10000	0.1005
62 Benzo(b)fluoranthene	252	32.261	32.272	(0.980)	13449	0.10000	0.09662
63 Benzo(k)fluoranthene	252	32.317	32.317	(0.982)	15506	0.10000	0.1105 (M)
293 Benzo(j)fluoranthene	252	32.373	32.373	(0.983)	12906	0.10000	0.1052
246 Total Benzofluoranthenes	252	32.261	32.317	(0.980)	39150	0.30000	0.3031 (M)

Compounds	QUANT SIG		AMOUNTS				AMOUNTS	
	MASS		RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
* 251 Benzo(e)pyrene-d12	264		32.925	32.925	(1.000)	285553	2.00000	
64 Benzo(e)pyrene	252		32.993	32.993	(1.002)	12547	0.10000	0.09845
66 Benzo(a)pyrene	252		33.083	33.083	(1.005)	11853	0.10000	0.09844
\$ 67 Perylene-d12	264		33.263	33.263	(1.010)	12542	0.10000	0.1062
68 Perylene	252		33.319	33.319	(1.012)	13133	0.10000	0.1038
69 Indeno(1,2,3-cd)pyrene	276		35.257	35.256	(1.071)	14810	0.10000	0.09932
70 Dibenzo(a,h)anthracene	278		35.234	35.245	(1.070)	12613	0.10000	0.09575
74 Benzo(g,h,i)perylene	276		36.101	36.101	(1.096)	13347	0.10000	0.1019

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100704.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	219599	4.77
250 Anthracene-d10	192407	96204	384814	199428	3.65
251 Benzo(e)pyrene-d1	274120	137060	548240	285553	4.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100704.D

Lab ID: SIJ0085-CAL1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 12:38

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

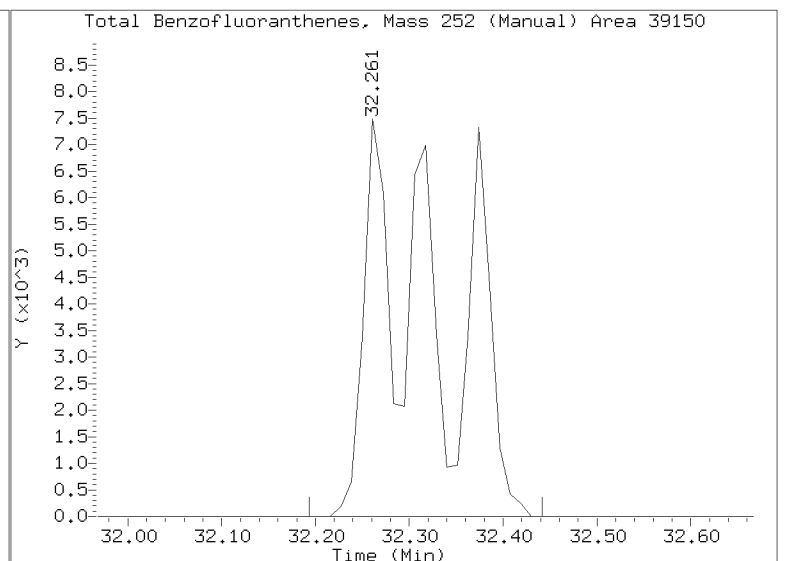
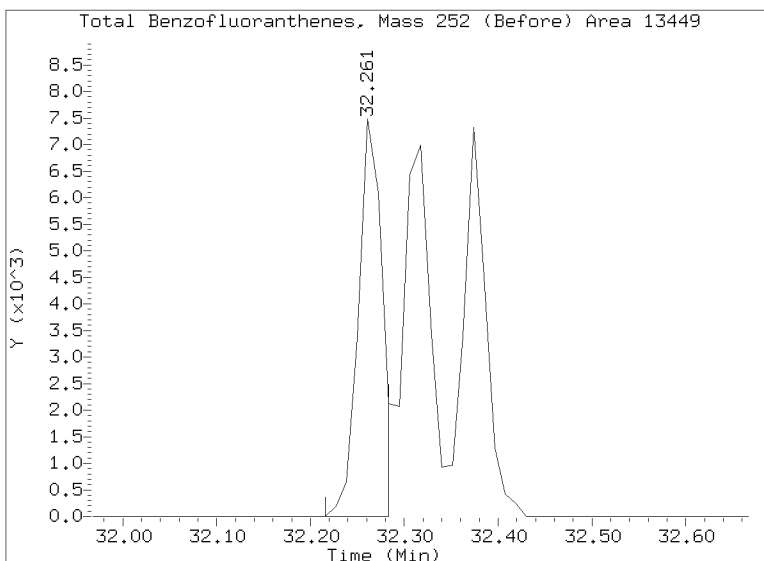
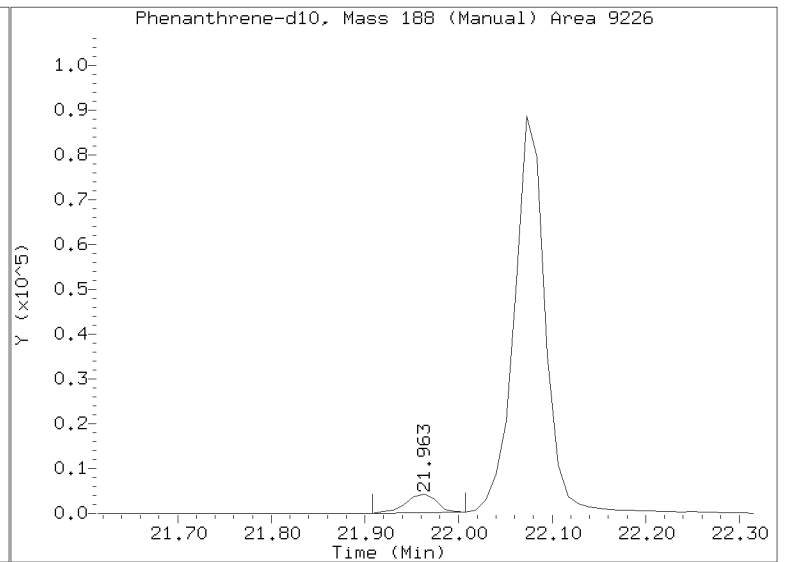
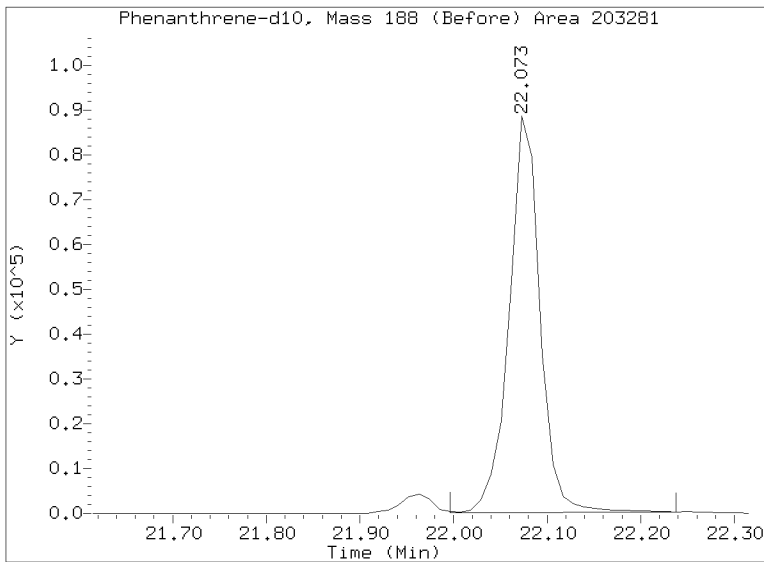
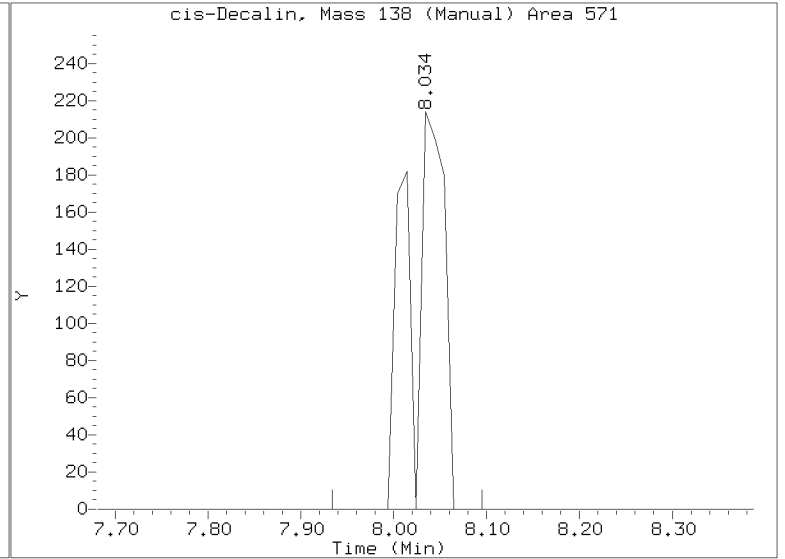
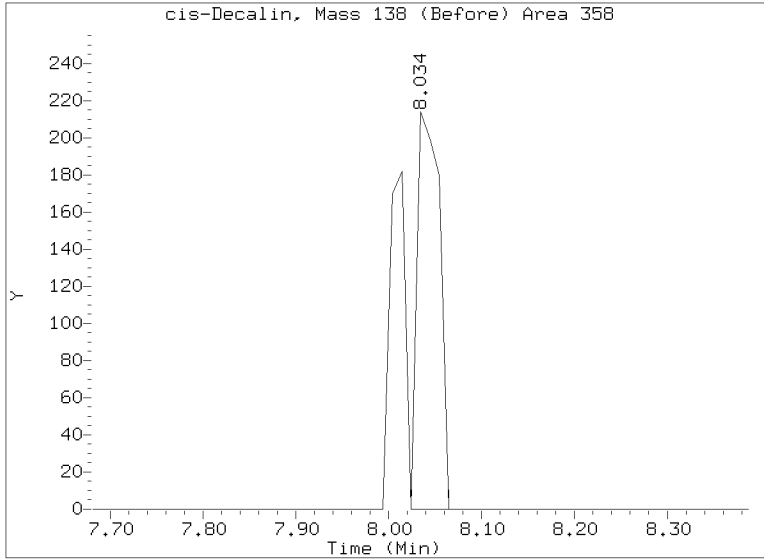
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100704.D
Injection Date: 07-OCT-2020 12:38
Lab ID:SIJ0085-CAL1 Client ID:
Report Date: 10/09/2020 08:51



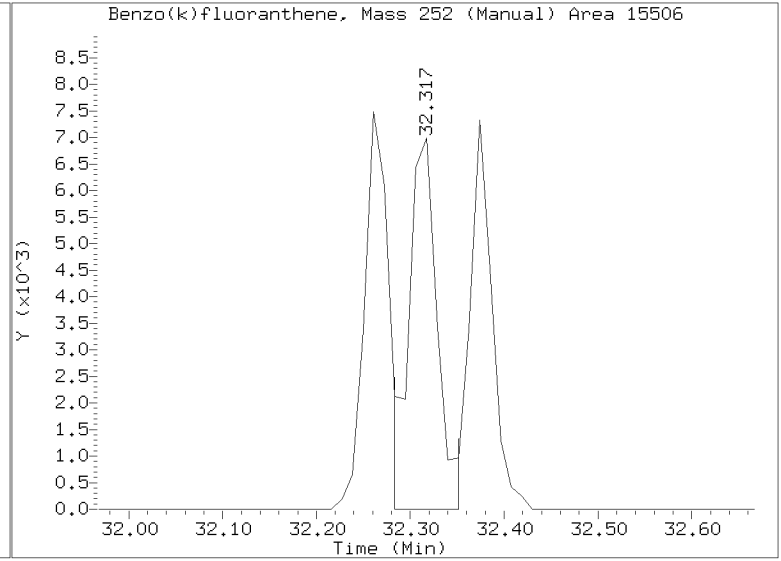
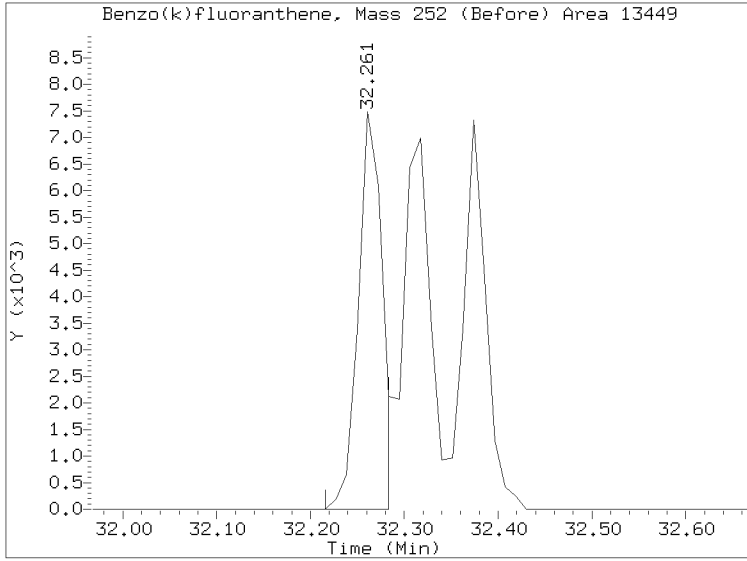
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100704.D

Injection Date: 07-OCT-2020 12:38

Lab ID:SIJ0085-CAL1 Client ID:

Report Date: 10/09/2020 08:51



Data File: \\target\share\chem3\nt14,1\20201007,16\NT1420100705.D

Date : 07-OCT-2020 13:26

Client ID:

Sample Info: S1J0085-C015

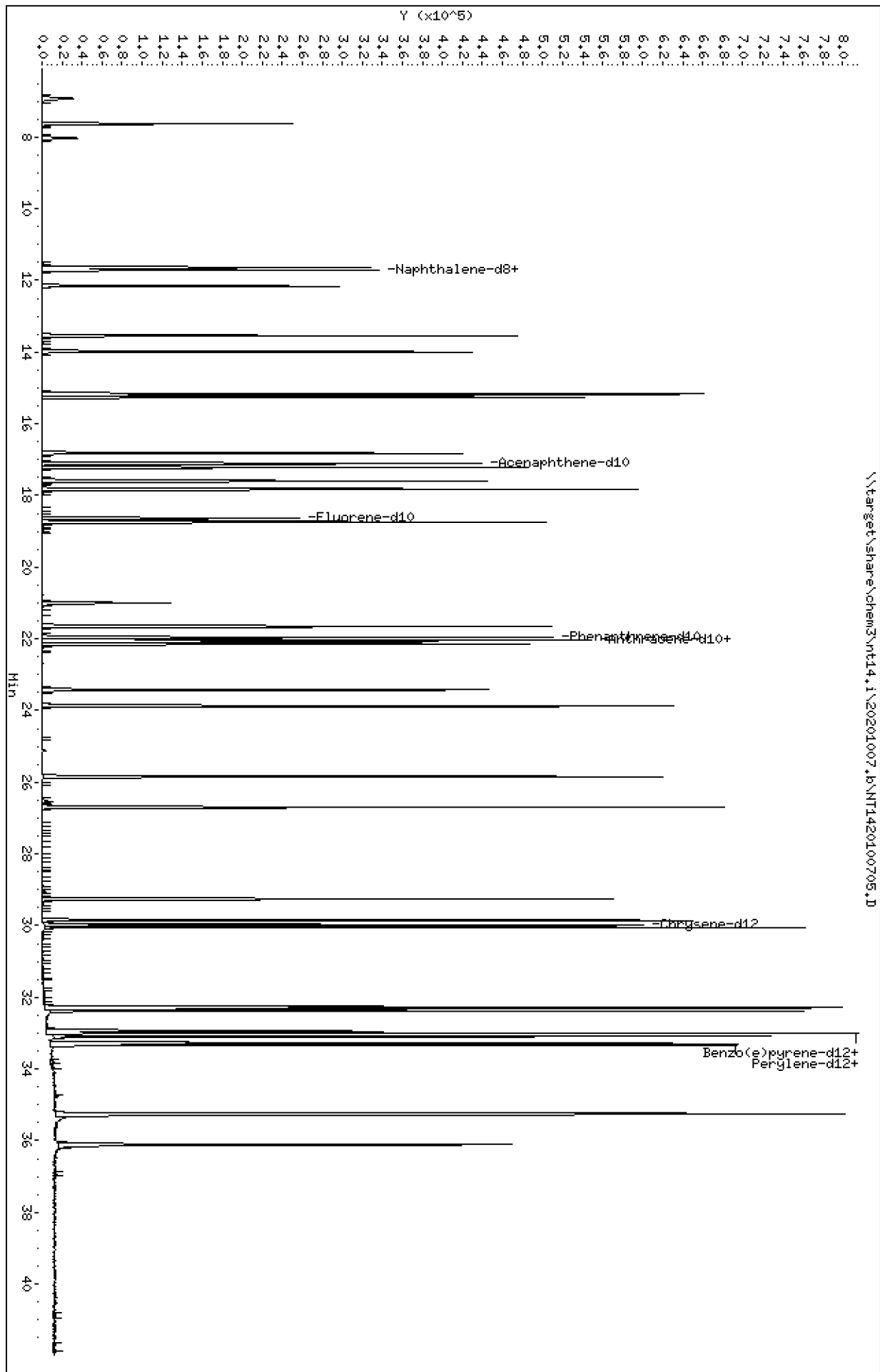
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201007,16\NT1420100705.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100705.D
 Lab Smp Id: SIJ0085-CAL5
 Inj Date : 07-OCT-2020 13:26
 Operator : VTS
 Smp Info : SIJ0085-CAL5
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 6
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
1 trans-Decalin	138		6.934	6.934	(0.372)	49980	5.00000	5.388
2 cis-Decalin	138		8.023	8.034	(0.431)	36850	5.00000	5.279
\$ 6 Naphthalene-d8	136		11.641	11.641	(0.625)	456146	5.00000	5.037
7 Naphthalene	128		11.707	11.707	(0.628)	452193	5.00000	4.991
12 Benzo(b)thiophene	134		12.157	12.157	(0.652)	376503	5.00000	4.945
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	284564	5.00000	5.152
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	272838	5.00000	5.027
18 Biphenyl	154		15.179	15.179	(0.815)	424093	5.00000	5.102
19 2,6-Dimethylnaphthalene	156		15.256	15.256	(0.819)	310041	5.00000	5.109
20 Acenaphthylene	152		16.817	16.817	(0.903)	512483	5.00000	5.150
\$ 21 Acenaphthene-d10	164		17.103	17.103	(0.918)	281256	5.00000	5.172
22 Acenaphthene	153		17.223	17.223	(0.924)	332037	5.00000	5.093
23 Dibenzofuran	168		17.597	17.597	(0.944)	486378	5.00000	5.143
24 1,6,7-Trimethylnaphthalene	170		17.828	17.828	(0.957)	321559	5.00000	5.226
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	221965	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	381827	5.00000	5.179
30 Dibenzothiophene	184		21.648	21.648	(1.162)	546348	5.00000	5.149
\$ 35 Phenanthrene-d10	188		21.963	21.963	(0.995)	507210	5.00000	5.180
36 Phenanthrene	178		22.040	22.040	(0.999)	569840	5.00000	5.033
* 250 Anthracene-d10	188		22.073	22.072	(1.000)	204432	2.00000	
37 Anthracene	178		22.149	22.138	(1.003)	549053	5.00000	4.935
42 Carbazole	167		23.425	23.425	(1.061)	489372	5.00000	5.079
43 1-Methylphenanthrene	192		23.875	23.875	(1.082)	441226	5.00000	5.310
44 Fluoranthene	202		25.843	25.843	(1.171)	651991	5.00000	5.218
46 Pyrene	202		26.701	26.701	(1.210)	679613	5.00000	5.154
51 Naphthobenzothiophene	234		29.256	29.256	(1.325)	628207	5.00000	5.227
55 Benzo(a)anthracene	228		29.850	29.839	(0.907)	658370	5.00000	5.250
\$ 56 Chrysene-d12	240		29.974	29.974	(0.910)	494394	5.00000	4.992
57 Chrysene	228		30.042	30.042	(0.912)	635702	5.00000	5.101
62 Benzo(b)fluoranthene	252		32.272	32.272	(0.980)	734114	5.00000	5.185 (M)
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	748276	5.00000	5.243 (M)
293 Benzo(j)fluoranthene	252		32.384	32.373	(0.984)	618891	5.00000	4.961 (M)
246 Total Benzofluoranthenes	252		32.272	32.317	(0.980)	2065414	15.0000	15.72 (M)

Compounds	QUANT SIG		AMOUNTS				CAL-AMT	ON-COL
	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)	
* 251 Benzo(e)pyrene-d12	264	32.925	32.925	(1.000)	290471	2.00000		
64 Benzo(e)pyrene	252	32.993	32.993	(1.002)	677603	5.00000	5.227	
66 Benzo(a)pyrene	252	33.094	33.083	(1.005)	647617	5.00000	5.287	
\$ 67 Perylene-d12	264	33.263	33.263	(1.010)	614419	5.00000	5.115	
68 Perylene	252	33.330	33.319	(1.012)	672765	5.00000	5.229	
69 Indeno(1,2,3-cd)pyrene	276	35.268	35.256	(1.071)	815478	5.00000	5.376	
70 Dibenzo(a,h)anthracene	278	35.245	35.245	(1.070)	714065	5.00000	5.329(M)	
74 Benzo(g,h,i)perylene	276	36.112	36.101	(1.097)	694445	5.00000	5.212	

QC Flag Legend

M - Compound response manually integrated.

REVIEW SUMMARY FOR FILE - NT1420100705.D

Lab ID: SIJ0085-CAL5

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 13:26

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

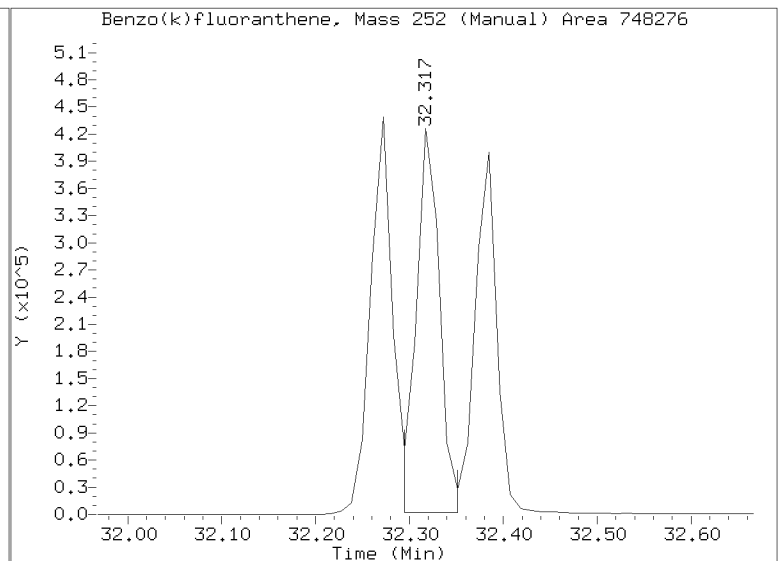
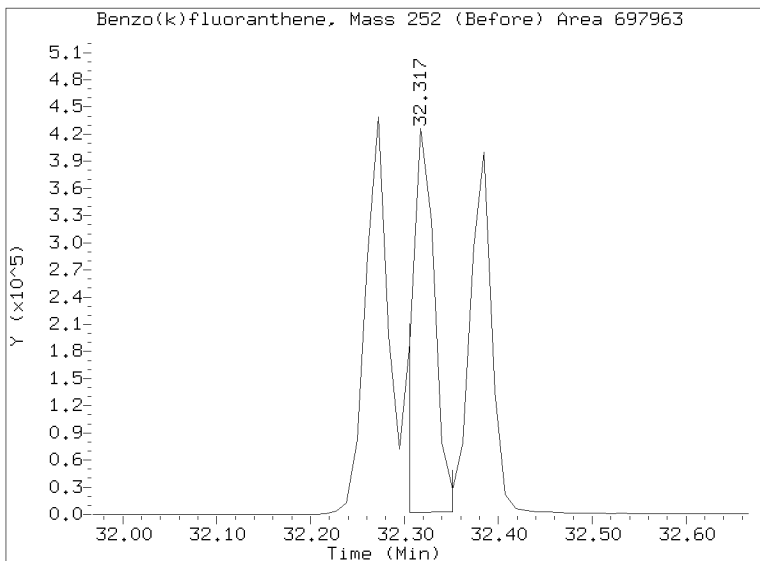
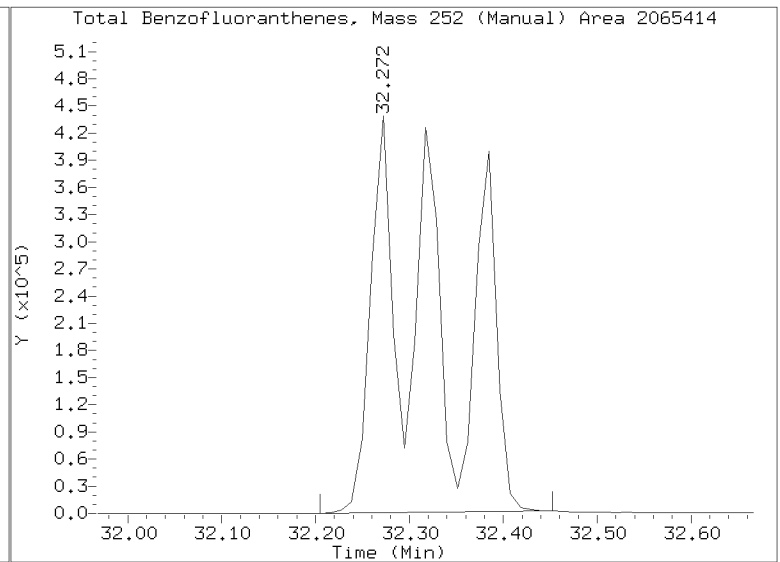
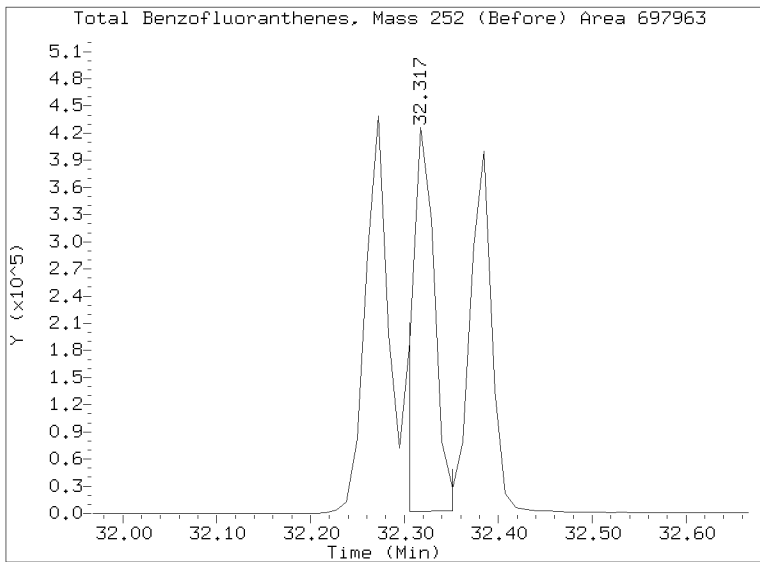
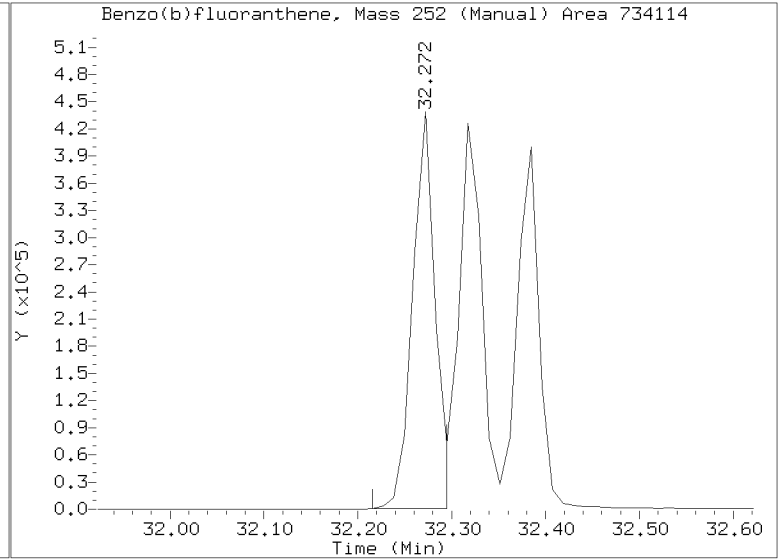
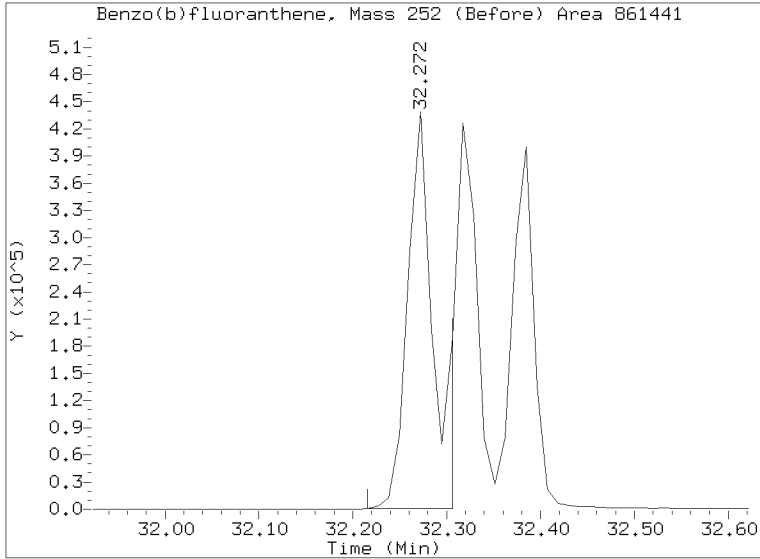
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100705.D

Injection Date: 07-OCT-2020 13:26

Lab ID:SIJ0085-CAL5 Client ID:

Report Date: 10/09/2020 08:51



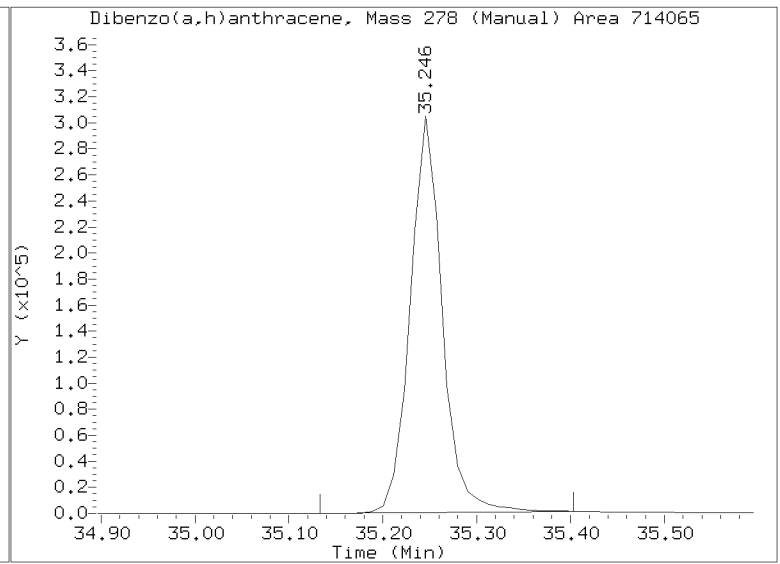
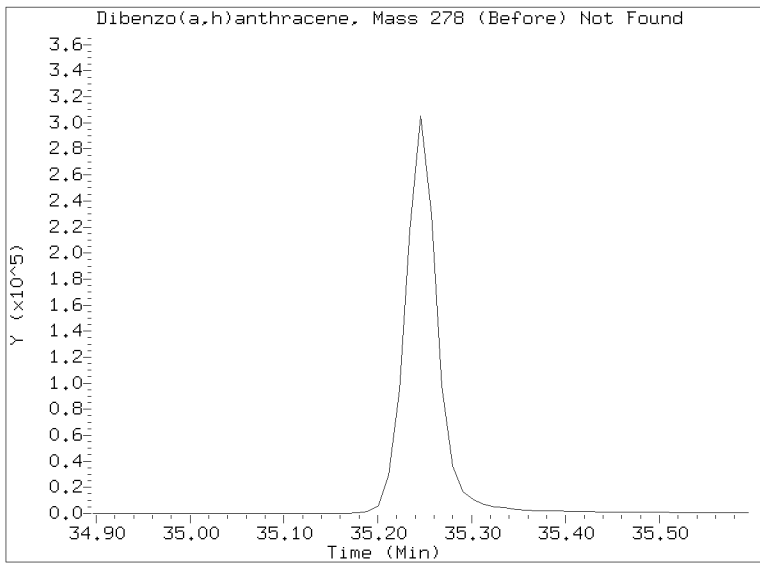
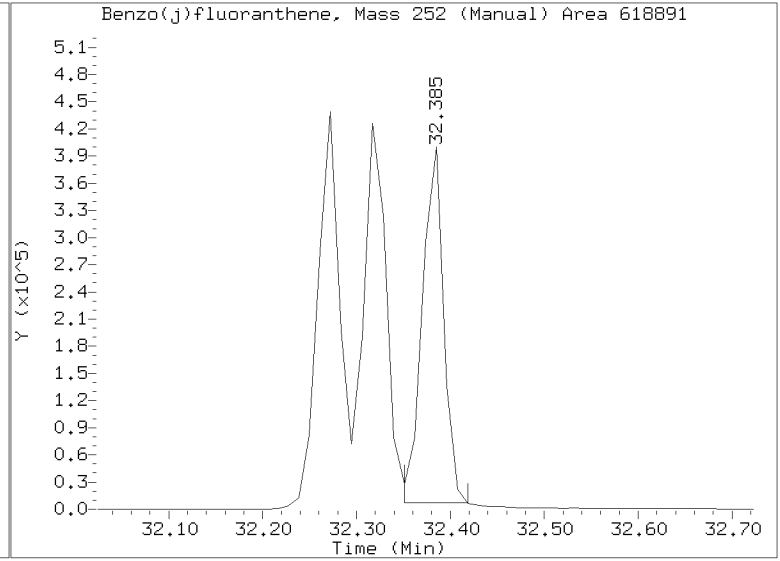
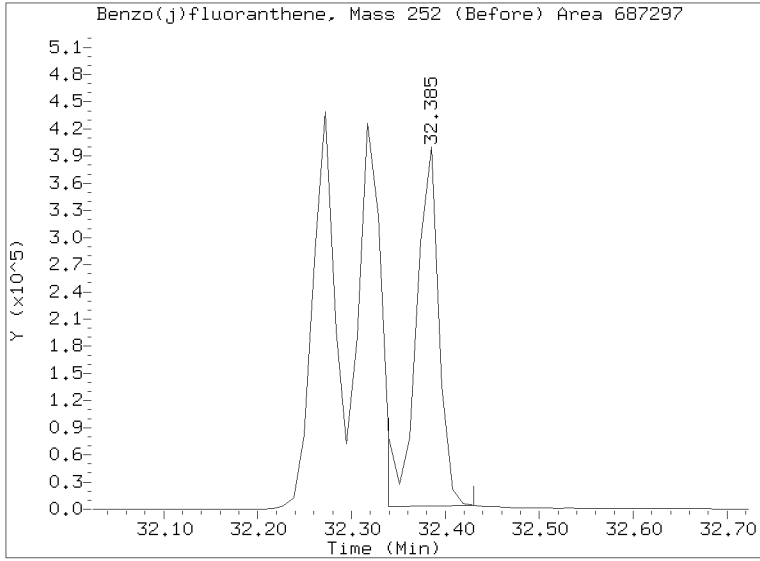
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100705.D

Injection Date: 07-OCT-2020 13:26

Lab ID:SIJ0085-CAL5 Client ID:

Report Date: 10/09/2020 08:51



Data File: \\target\share\chem3\nt14,1\20201007.16\NT1420100706.D

Date : 07-OCT-2020 14:17

Client ID:

Sample Info: S100085-CAL2

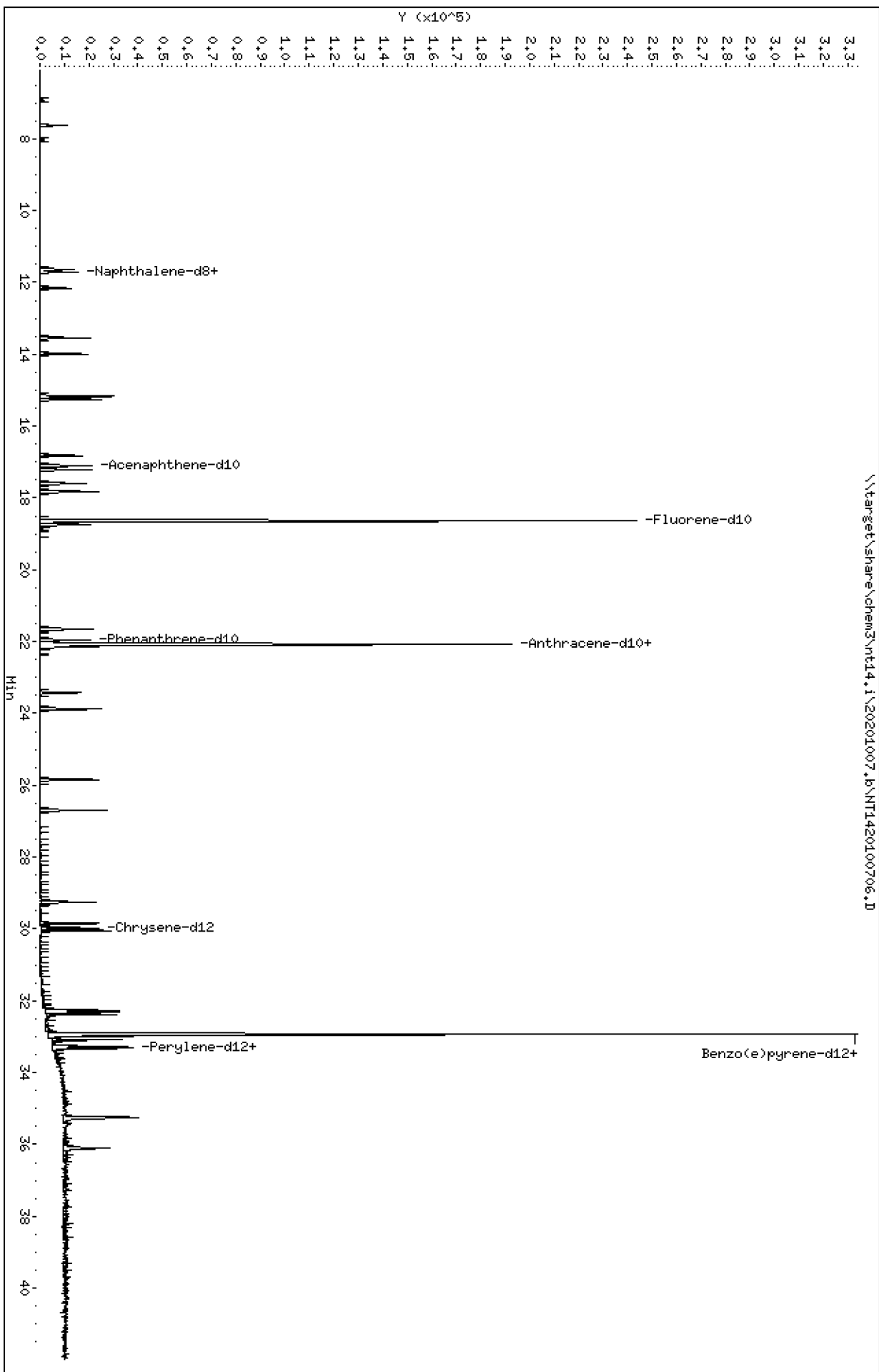
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100706.D
 Lab Smp Id: SIJ0085-CAL2
 Inj Date : 07-OCT-2020 14:17
 Operator : VTS
 Smp Info : SIJ0085-CAL2
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 2
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
1 trans-Decalin	138		6.934	6.934	(0.372)	2252	0.25000	0.2466
2 cis-Decalin	138		8.044	8.034	(0.432)	1594	0.25000	0.2320
\$ 6 Naphthalene-d8	136		11.641	11.641	(0.625)	21730	0.25000	0.2438
7 Naphthalene	128		11.707	11.707	(0.628)	22159	0.25000	0.2485
12 Benzo(b)thiophene	134		12.157	12.157	(0.652)	18669	0.25000	0.2491
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	12712	0.25000	0.2338
17 1-methylnaphthalene	141		13.993	13.992	(0.751)	13075	0.25000	0.2336
18 Biphenyl	154		15.180	15.179	(0.815)	19766	0.25000	0.2416
19 2,6-Dimethylnaphthalene	156		15.256	15.256	(0.819)	15174	0.25000	0.2540
20 Acenaphthylene	152		16.817	16.817	(0.903)	22378	0.25000	0.2285
\$ 21 Acenaphthene-d10	164		17.103	17.103	(0.918)	13305	0.25000	0.2486
22 Acenaphthene	153		17.224	17.223	(0.924)	15700	0.25000	0.2447
23 Dibenzofuran	168		17.597	17.597	(0.944)	22038	0.25000	0.2368
24 1,6,7-Trimethylnaphthalene	170		17.828	17.828	(0.957)	14402	0.25000	0.2378
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	218460	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	17591	0.25000	0.2424
30 Dibenzothiophene	184		21.648	21.648	(1.162)	25381	0.25000	0.2430
\$ 35 Phenanthrene-d10	188		21.963	21.963	(0.995)	22819	0.25000	0.2407
36 Phenanthrene	178		22.040	22.040	(0.999)	26582	0.25000	0.2425
* 250 Anthracene-d10	188		22.073	22.072	(1.000)	197976	2.00000	
37 Anthracene	178		22.139	22.138	(1.003)	25137	0.25000	0.2333
42 Carbazole	167		23.425	23.425	(1.061)	22010	0.25000	0.2359
43 1-Methylphenanthrene	192		23.876	23.875	(1.082)	18812	0.25000	0.2338
44 Fluoranthene	202		25.844	25.843	(1.171)	27742	0.25000	0.2293
46 Pyrene	202		26.701	26.701	(1.210)	30294	0.25000	0.2372
51 Naphthobenzothiophene	234		29.256	29.256	(1.325)	28096	0.25000	0.2414
55 Benzo(a)anthracene	228		29.839	29.839	(0.906)	28323	0.25000	0.2286
\$ 56 Chrysene-d12	240		29.963	29.974	(0.910)	23429	0.25000	0.2394
57 Chrysene	228		30.042	30.042	(0.912)	30292	0.25000	0.2460
62 Benzo(b)fluoranthene	252		32.261	32.272	(0.980)	31128	0.25000	0.2225
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	35688	0.25000	0.2531
293 Benzo(j)fluoranthene	252		32.373	32.373	(0.983)	29094	0.25000	0.2360
246 Total Benzofluoranthenes	252		32.261	32.317	(0.980)	89523	0.75000	0.6896 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
* 251 Benzo(e)pyrene-d12	264	32.925	32.925	(1.000)	287017	2.00000		
64 Benzo(e)pyrene	252	32.981	32.993	(1.002)	30852	0.25000	0.2409	
66 Benzo(a)pyrene	252	33.083	33.083	(1.005)	27240	0.25000	0.2251	
\$ 67 Perylene-d12	264	33.263	33.263	(1.010)	27911	0.25000	0.2352	
68 Perylene	252	33.319	33.319	(1.012)	28453	0.25000	0.2238	
69 Indeno(1,2,3-cd)pyrene	276	35.257	35.256	(1.071)	34019	0.25000	0.2270	
70 Dibenzo(a,h)anthracene	278	35.234	35.245	(1.070)	30457	0.25000	0.2300	
74 Benzo(g,h,i)perylene	276	36.101	36.101	(1.096)	29763	0.25000	0.2261	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
Lab File ID: NT1420100706.D Calibration Time: 18:22
Lab Smp Id: SIJ0085-CAL2
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	218460	4.23
250 Anthracene-d10	192407	96204	384814	197976	2.89
251 Benzo(e)pyrene-d1	274120	137060	548240	287017	4.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100706.D

Lab ID: SIJ0085-CAL2

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 14:17

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

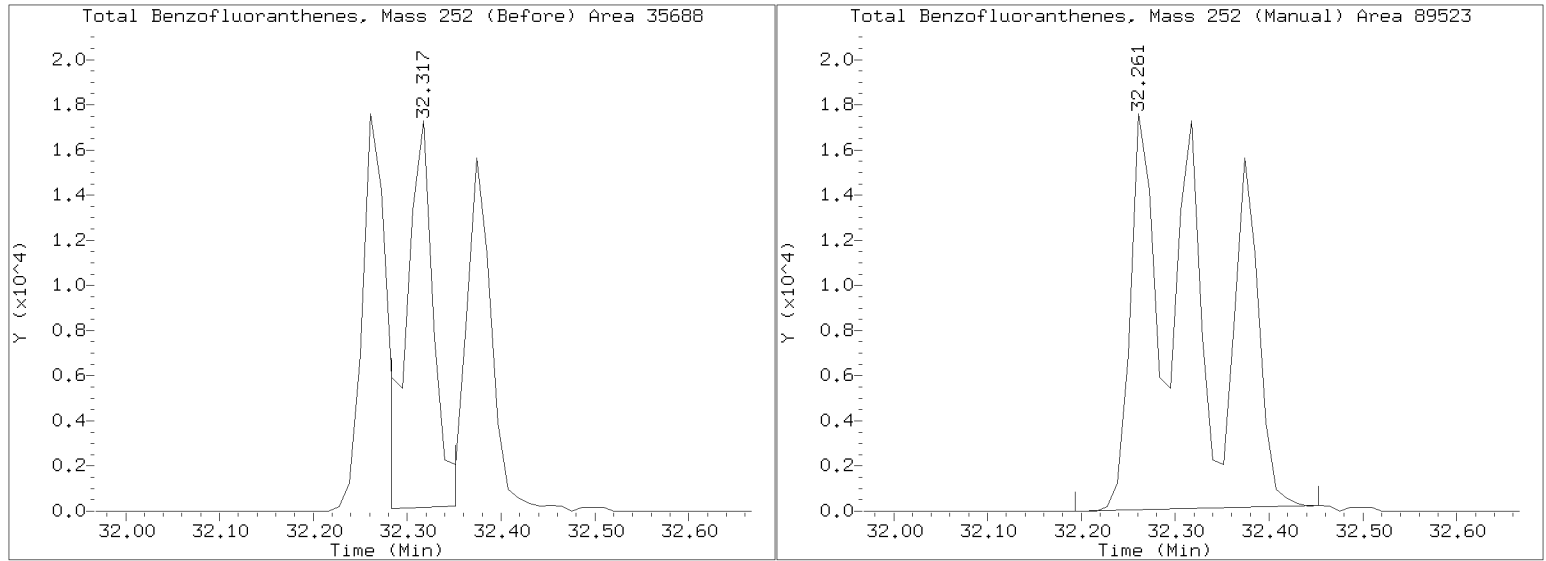
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100706.D

Injection Date: 07-OCT-2020 14:17

Lab ID:SIJ0085-CAL2 Client ID:

Report Date: 10/09/2020 09:36



Data File: \\target\share\chem3\nt14,1\20201007,16\NT1420100707.D

Date : 07-OCT-2020 15:08

Client ID:

Sample Info: S100085-CAL3

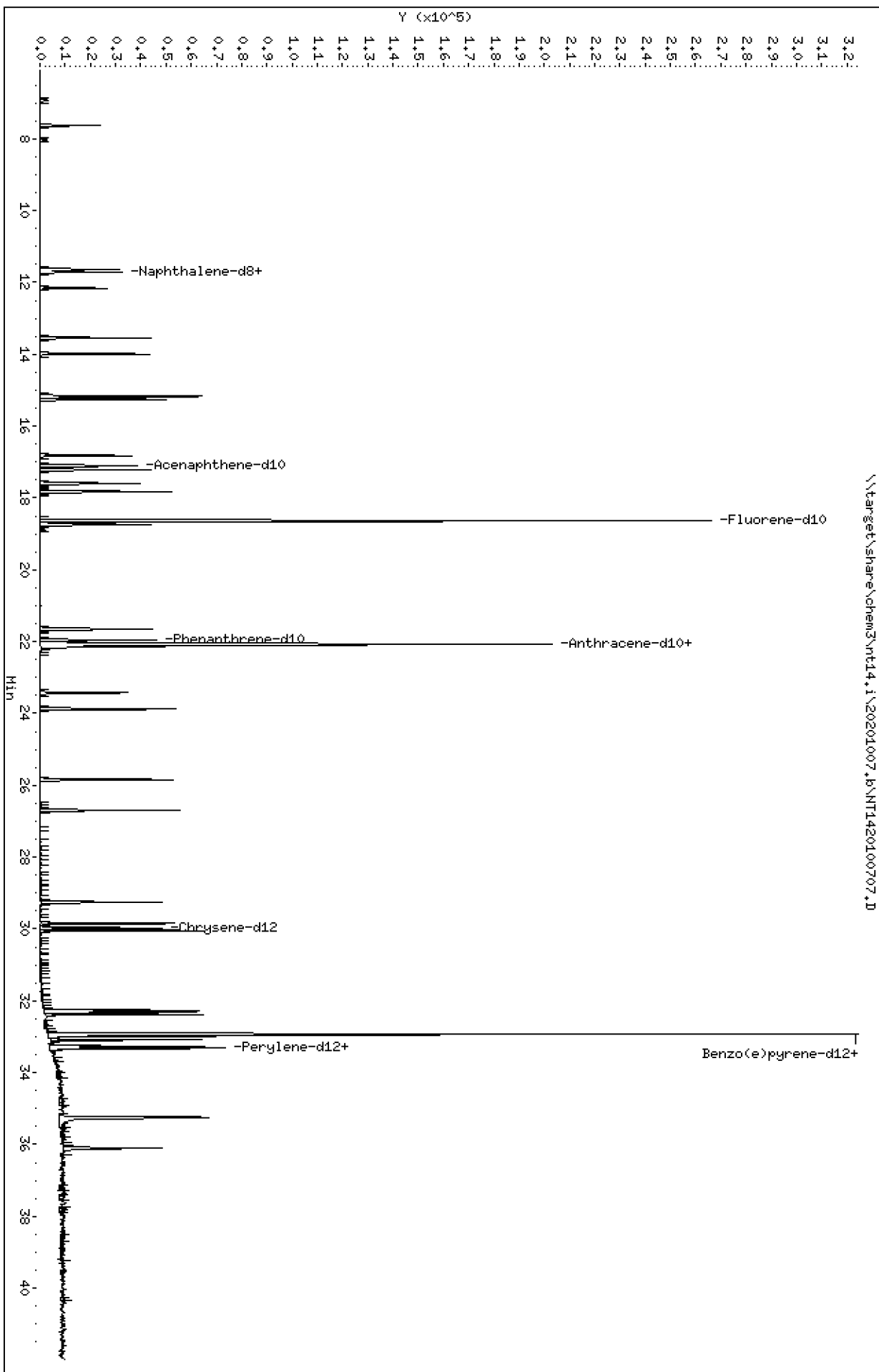
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100707.D
 Lab Smp Id: SIJ0085-CAL3
 Inj Date : 07-OCT-2020 15:08
 Operator : VTS
 Smp Info : SIJ0085-CAL3
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 7
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Calibration Sample, Level: 3
 Compound Sublist: TARGETS.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.934	6.934	(0.372)	4456	0.50000	0.4910
2 cis-Decalin	138	8.034	8.034	(0.431)	3590	0.50000	0.5257
\$ 6 Naphthalene-d8	136	11.641	11.641	(0.625)	42776	0.50000	0.4828
7 Naphthalene	128	11.707	11.707	(0.628)	45725	0.50000	0.5158
12 Benzo(b)thiophene	134	12.157	12.157	(0.652)	35952	0.50000	0.4827
16 2-Methylnaphthalene	141	13.542	13.542	(0.727)	26507	0.50000	0.4905
17 1-methylnaphthalene	141	13.992	13.992	(0.751)	27344	0.50000	0.4928
18 Biphenyl	154	15.179	15.179	(0.815)	38553	0.50000	0.4741
19 2,6-Dimethylnaphthalene	156	15.256	15.256	(0.819)	30598	0.50000	0.5154
20 Acenaphthylene	152	16.817	16.817	(0.903)	47135	0.50000	0.4842
\$ 21 Acenaphthene-d10	164	17.103	17.103	(0.918)	25783	0.50000	0.4846
22 Acenaphthene	153	17.223	17.223	(0.924)	31257	0.50000	0.4901
23 Dibenzofuran	168	17.597	17.597	(0.944)	46013	0.50000	0.4973
24 1,6,7-Trimethylnaphthalene	170	17.828	17.828	(0.957)	29076	0.50000	0.4830
* 25 Fluorene-d10	176	18.632	18.632	(1.000)	217147	2.00000	
26 Fluorene	166	18.746	18.746	(1.006)	35358	0.50000	0.4902
30 Dibenzothiophene	184	21.648	21.648	(1.162)	50504	0.50000	0.4865
\$ 35 Phenanthrene-d10	188	21.963	21.963	(0.995)	47018	0.50000	0.4992
36 Phenanthrene	178	22.040	22.040	(0.999)	55254	0.50000	0.5073
* 250 Anthracene-d10	188	22.072	22.072	(1.000)	196660	2.00000	
37 Anthracene	178	22.138	22.138	(1.003)	51428	0.50000	0.4805
42 Carbazole	167	23.425	23.425	(1.061)	45098	0.50000	0.4865
43 1-Methylphenanthrene	192	23.875	23.875	(1.082)	40002	0.50000	0.5004
44 Fluoranthene	202	25.843	25.843	(1.171)	57612	0.50000	0.4793
46 Pyrene	202	26.701	26.701	(1.210)	59686	0.50000	0.4706
51 Naphthobenzothiophene	234	29.256	29.256	(1.325)	55686	0.50000	0.4817
55 Benzo(a)anthracene	228	29.839	29.839	(0.906)	56091	0.50000	0.4619
\$ 56 Chrysene-d12	240	29.963	29.974	(0.910)	46750	0.50000	0.4874
57 Chrysene	228	30.042	30.042	(0.912)	58008	0.50000	0.4806
62 Benzo(b)fluoranthene	252	32.260	32.272	(0.980)	66889	0.50000	0.4878 (M)
63 Benzo(k)fluoranthene	252	32.317	32.317	(0.982)	61345	0.50000	0.4439 (M)
293 Benzo(j)fluoranthene	252	32.373	32.373	(0.983)	56412	0.50000	0.4670 (M)
246 Total Benzofluoranthenes	252	32.317	32.317	(0.982)	178845	1.50000	1.406 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 251 Benzo(e)pyrene-d12	264	32.925	32.925	(1.000)	281303	2.00000		
64 Benzo(e)pyrene	252	32.993	32.993	(1.002)	59421	0.50000	0.4733	
66 Benzo(a)pyrene	252	33.083	33.083	(1.005)	55231	0.50000	0.4656	
\$ 67 Perylene-d12	264	33.263	33.263	(1.010)	55910	0.50000	0.4807	
68 Perylene	252	33.319	33.319	(1.012)	58344	0.50000	0.4683	
69 Indeno(1,2,3-cd)pyrene	276	35.256	35.256	(1.071)	67492	0.50000	0.4595	
70 Dibenzo(a,h)anthracene	278	35.234	35.245	(1.070)	57701	0.50000	0.4446 (M)	
74 Benzo(g,h,i)perylene	276	36.101	36.101	(1.096)	61896	0.50000	0.4797	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100707.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	217147	3.60
250 Anthracene-d10	192407	96204	384814	196660	2.21
251 Benzo(e)pyrene-d1	274120	137060	548240	281303	2.62

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	-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 - NT1420100707.D

Lab ID: SIJ0085-CAL3

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 15:08

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

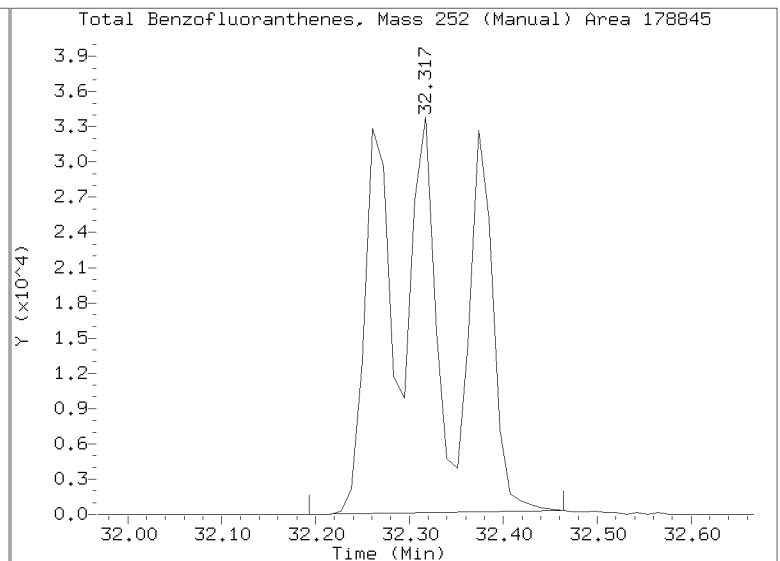
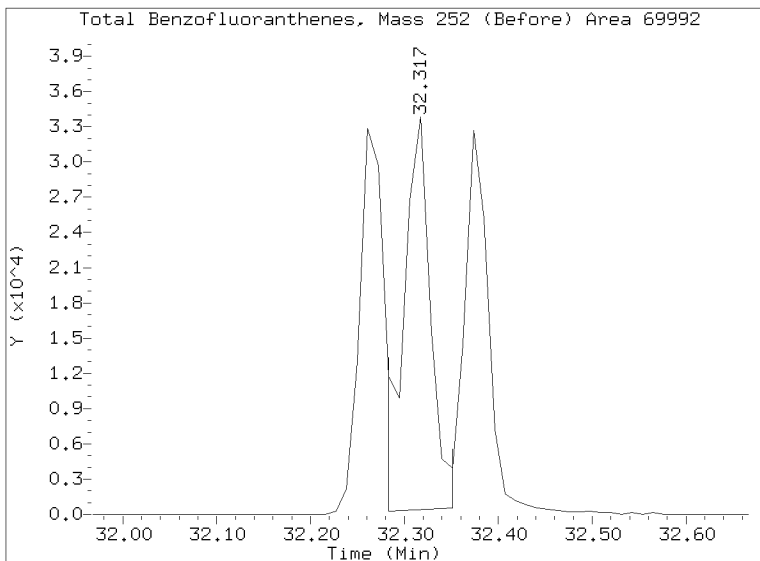
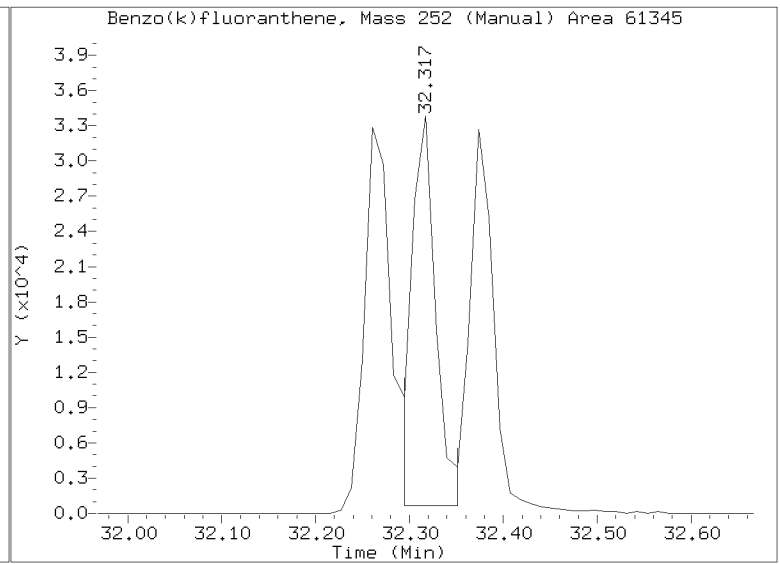
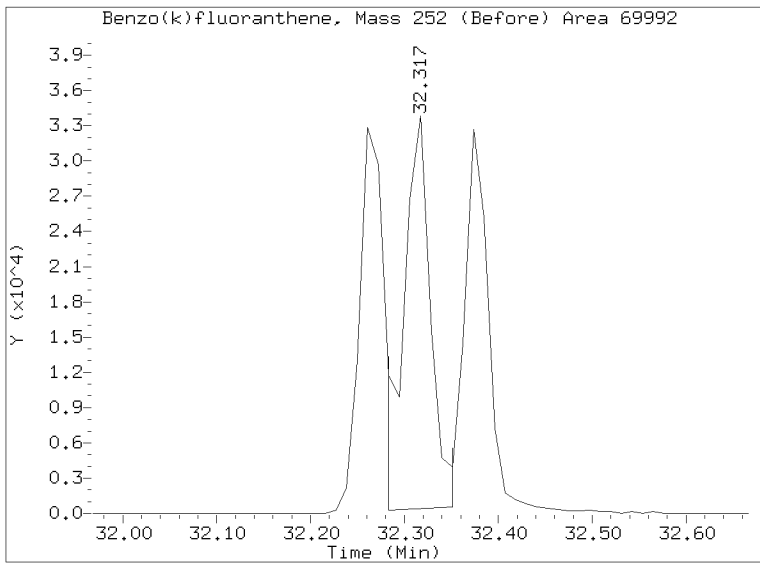
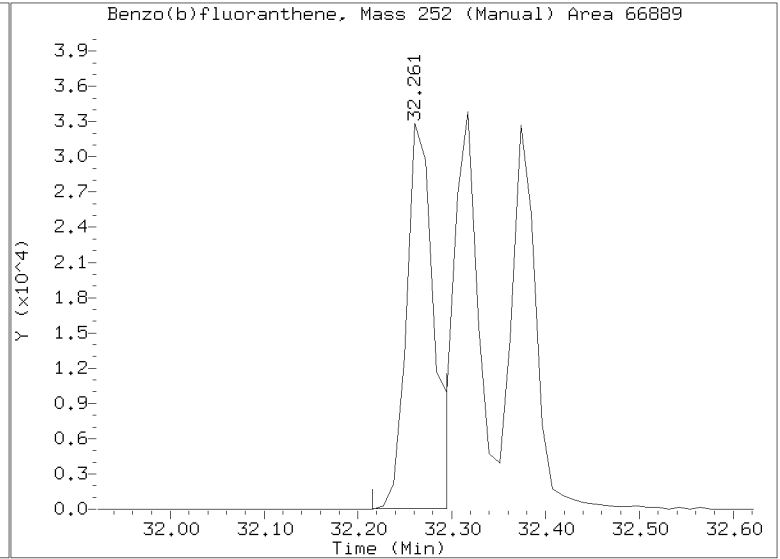
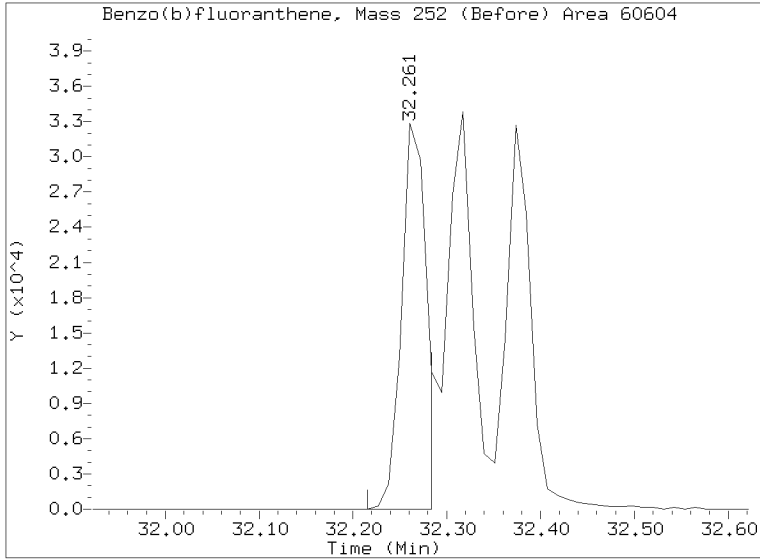
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100707.D
Injection Date: 07-OCT-2020 15:08
Lab ID:SIJ0085-CAL3 Client ID:
Report Date: 10/09/2020 09:36



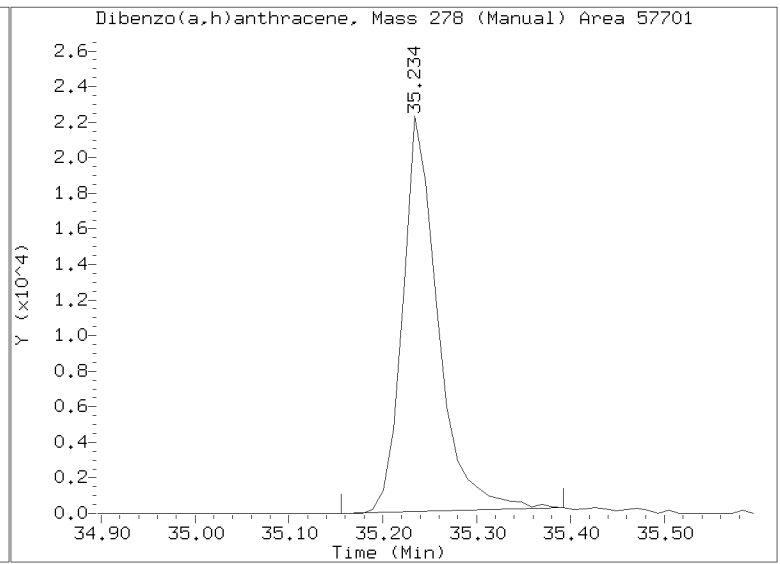
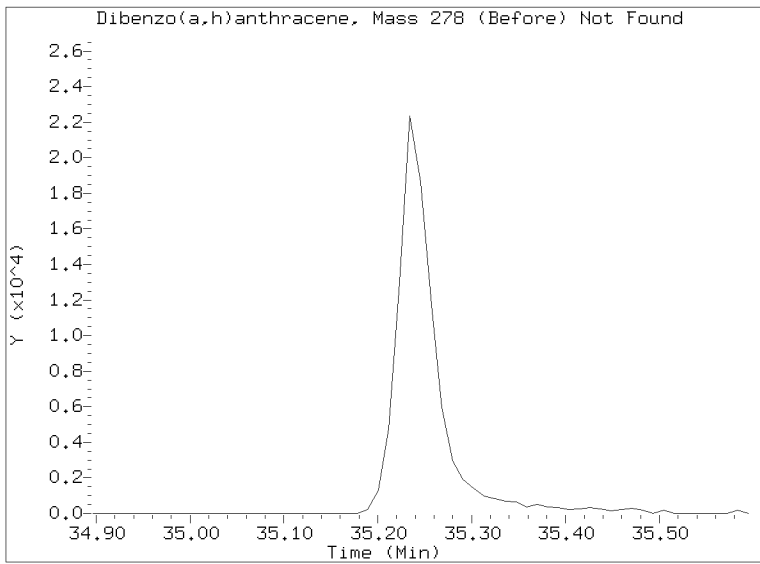
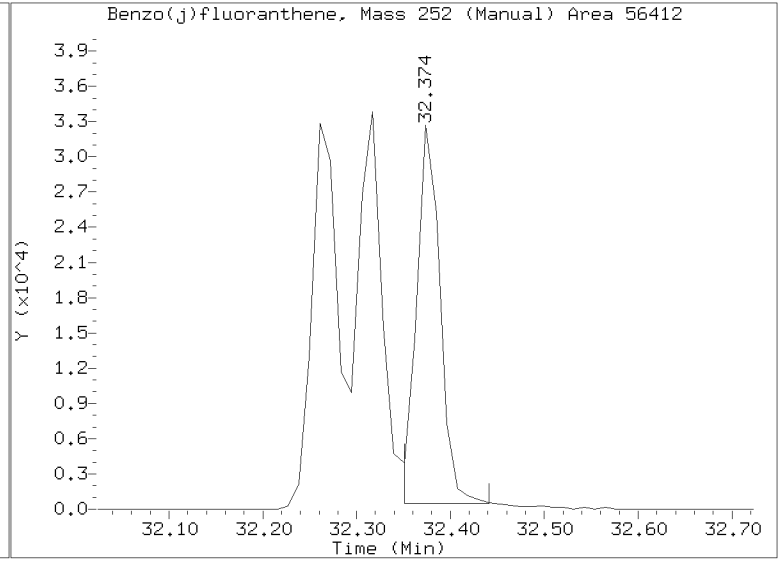
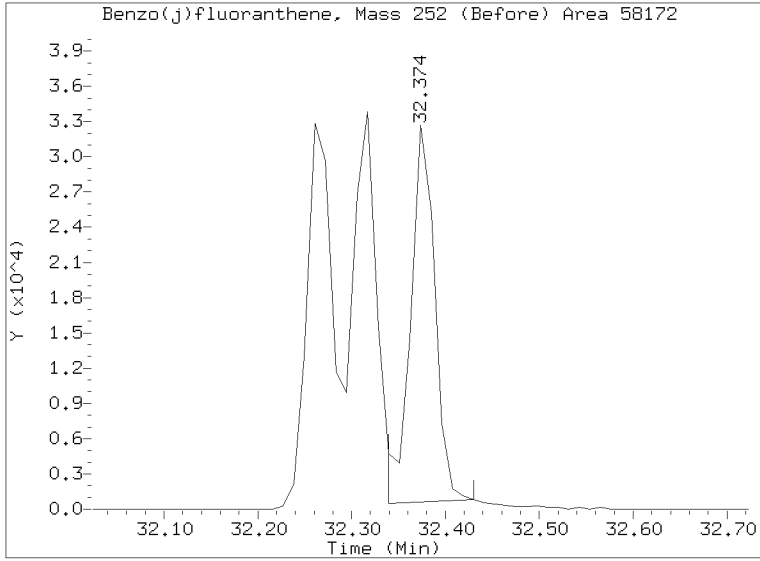
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100707.D

Injection Date: 07-OCT-2020 15:08

Lab ID:SIJ0085-CAL3 Client ID:

Report Date: 10/09/2020 09:36



Data File: \\target\share\chem3\nt14.1\20201007.16\NT1420100709.D

Date : 07-OCT-2020 16:45

Client ID:

Sample Info: S100085-SCV1

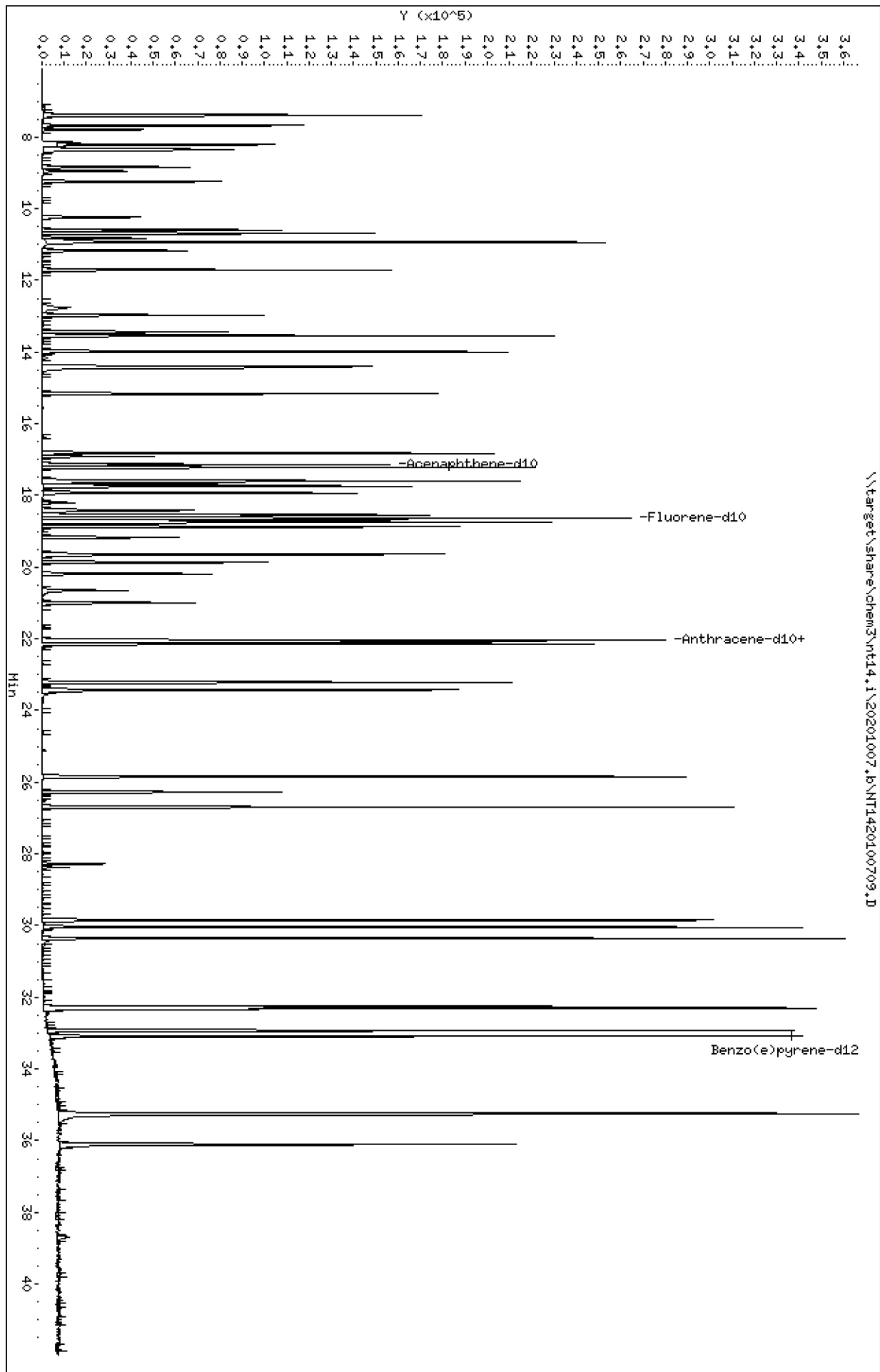
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201007.16\NT1420100709.D



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

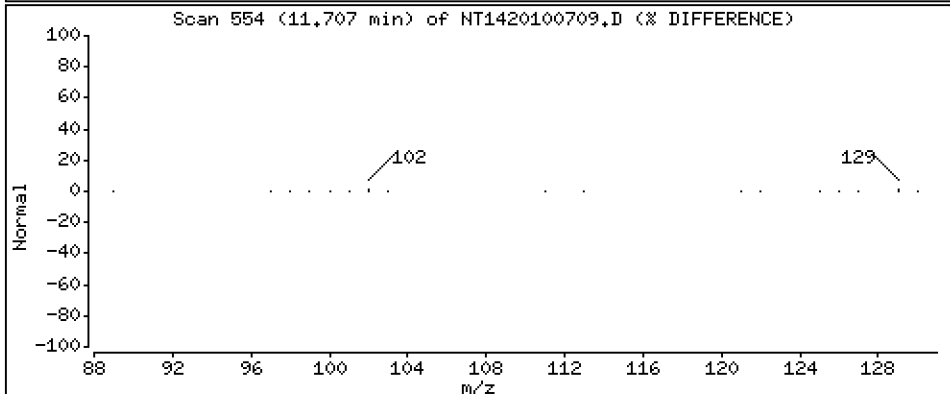
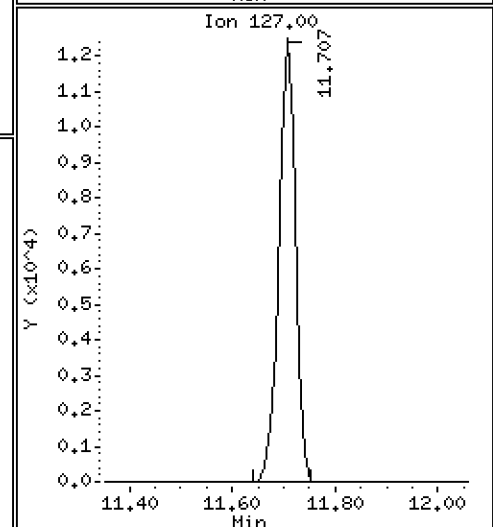
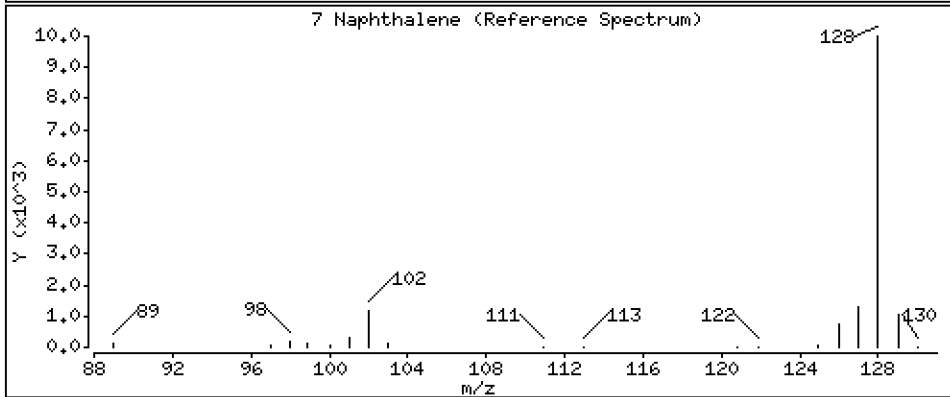
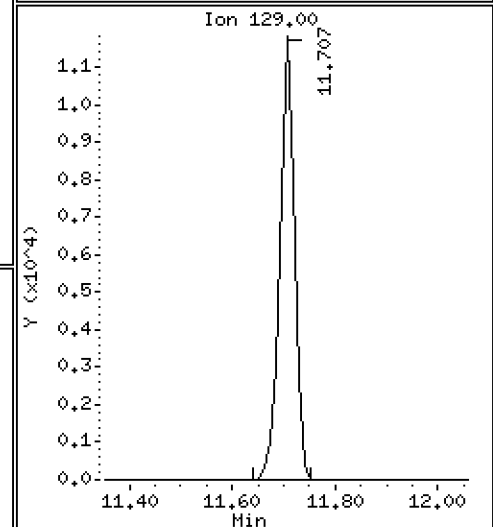
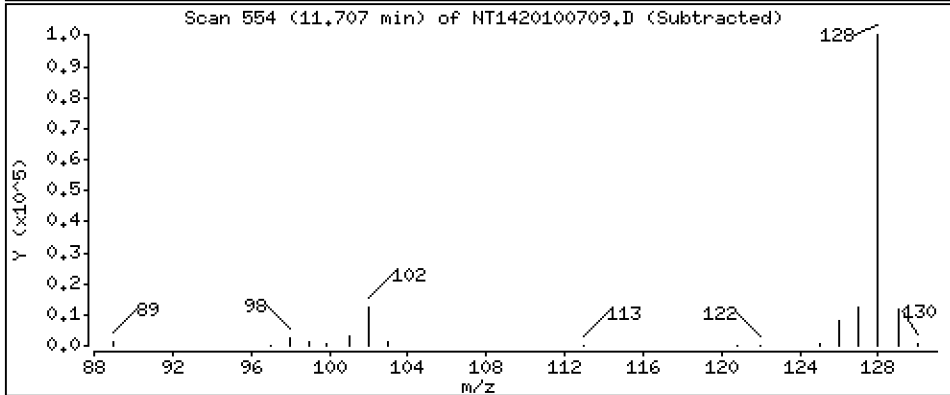
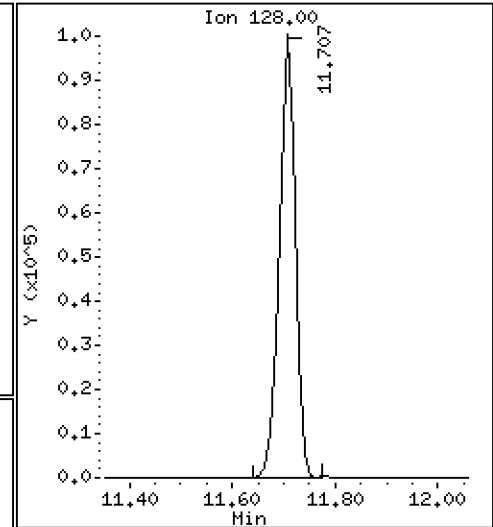
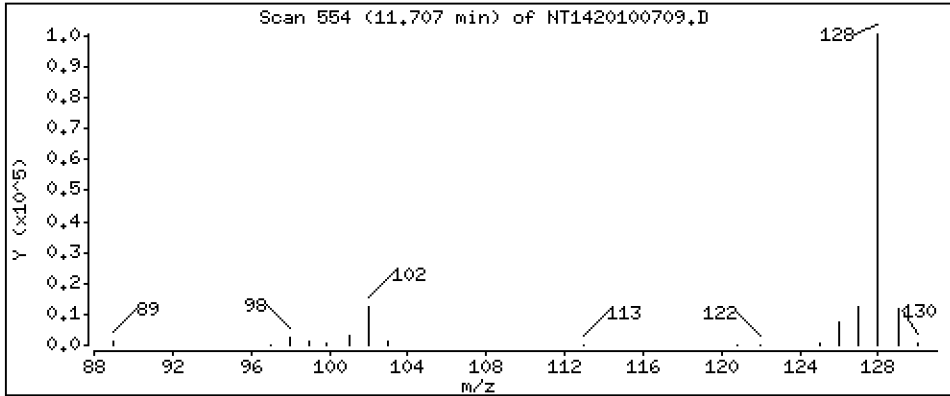
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 2,757 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

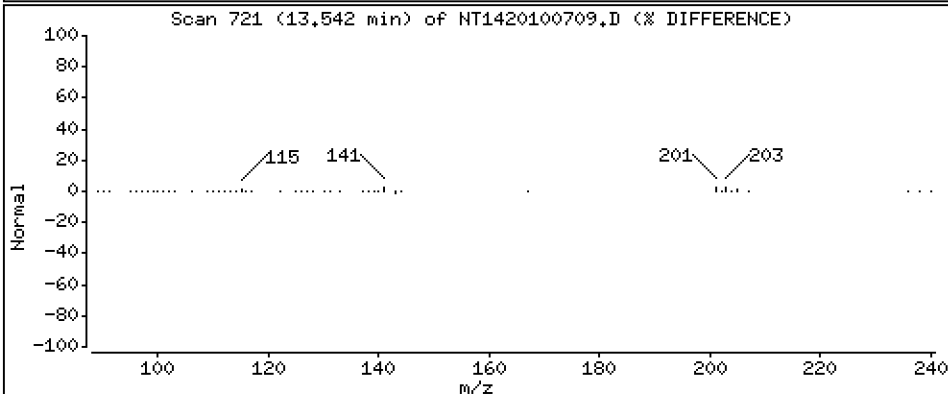
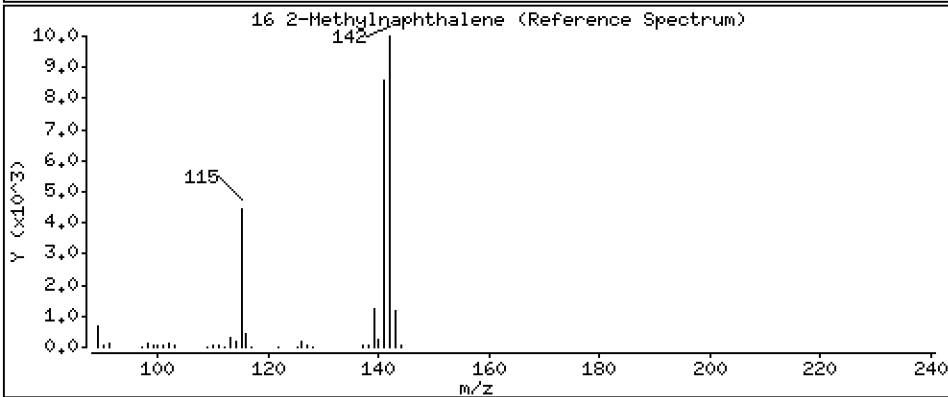
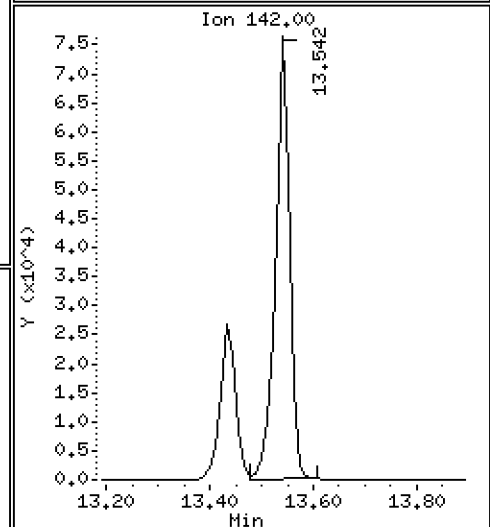
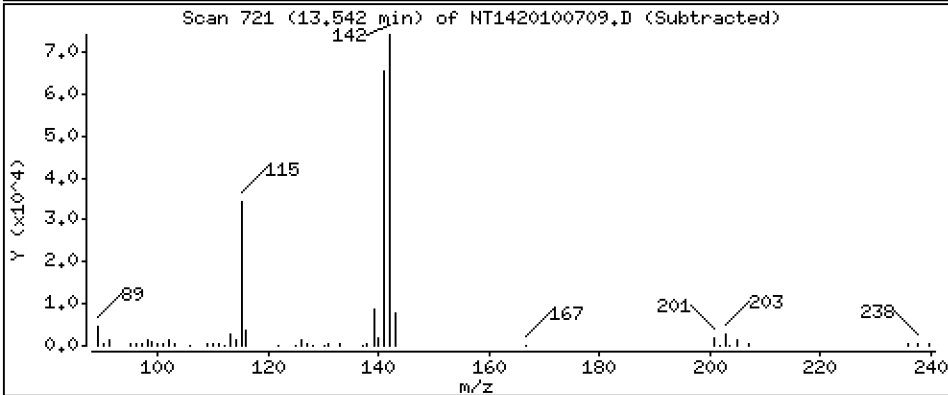
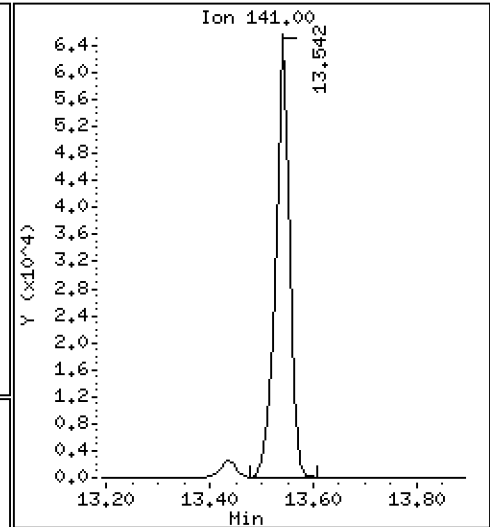
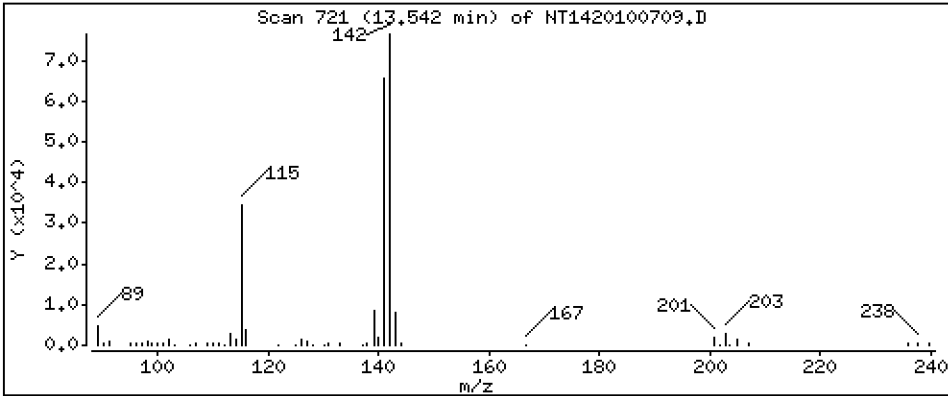
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 2,807 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

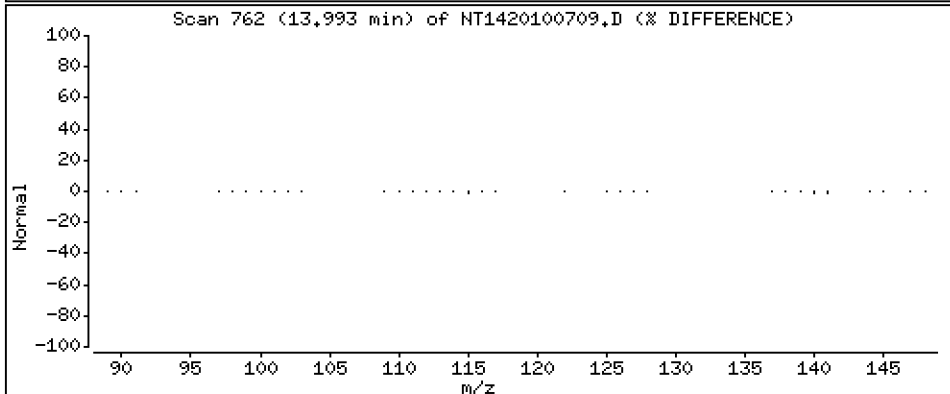
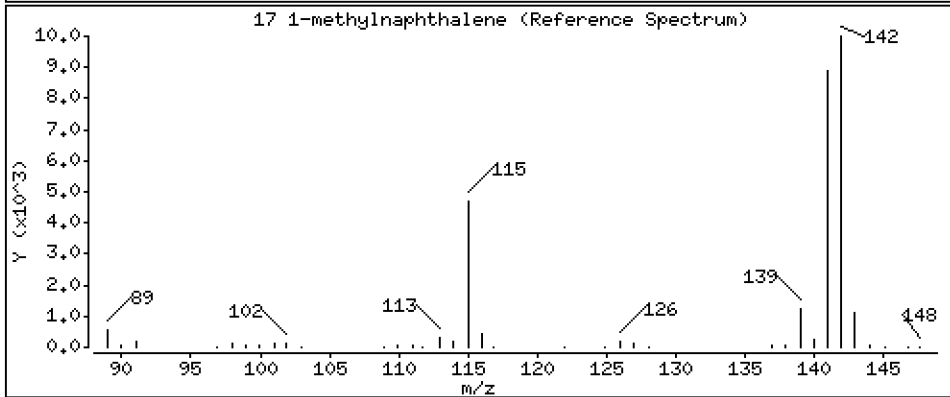
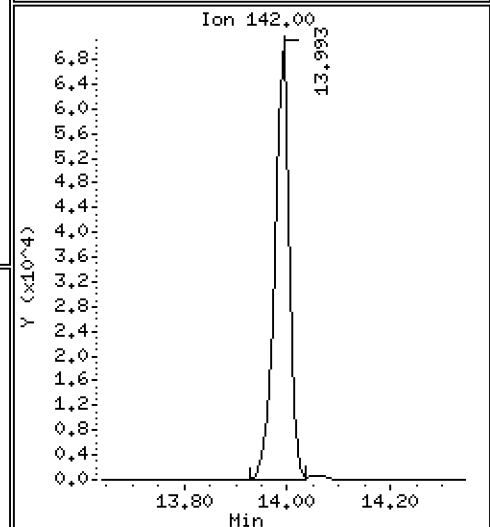
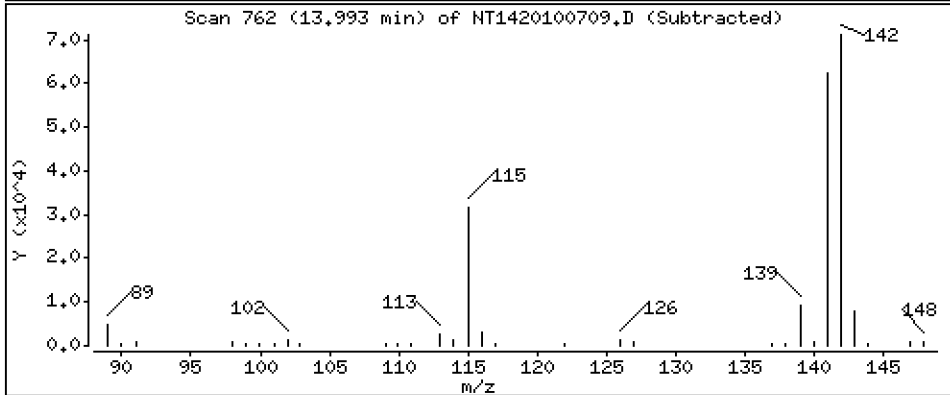
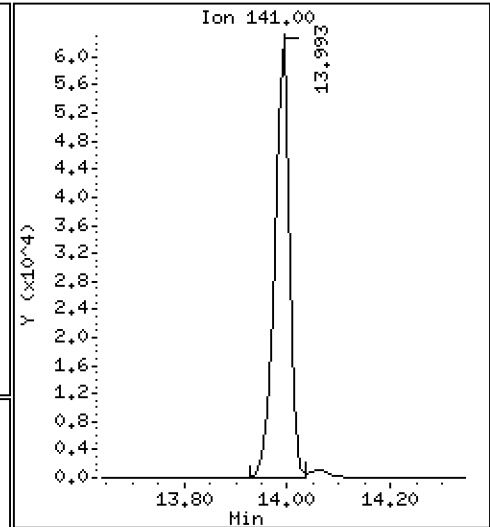
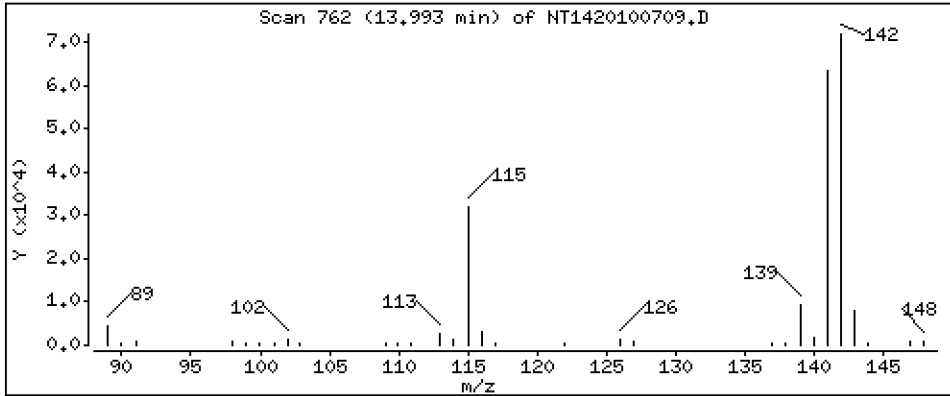
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 2,835 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

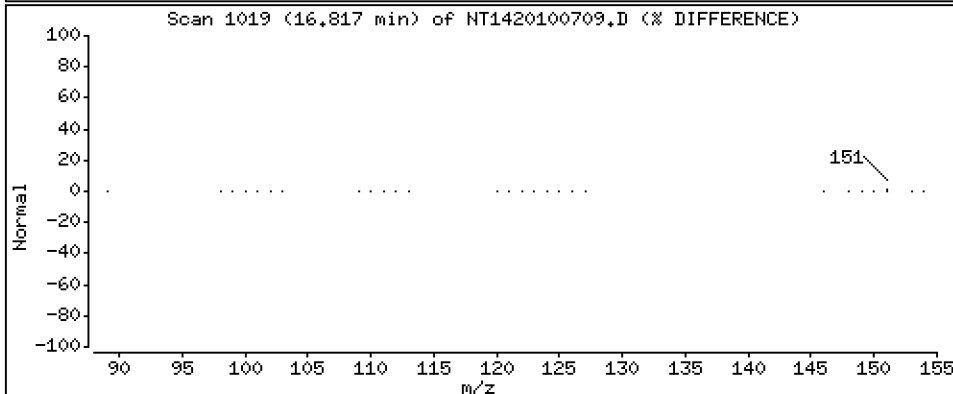
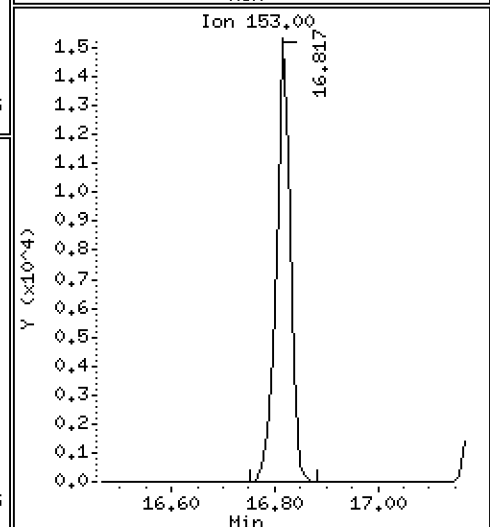
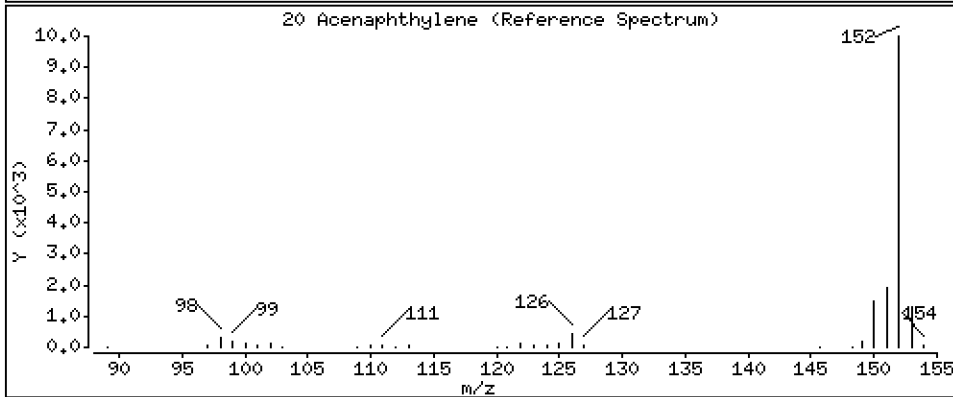
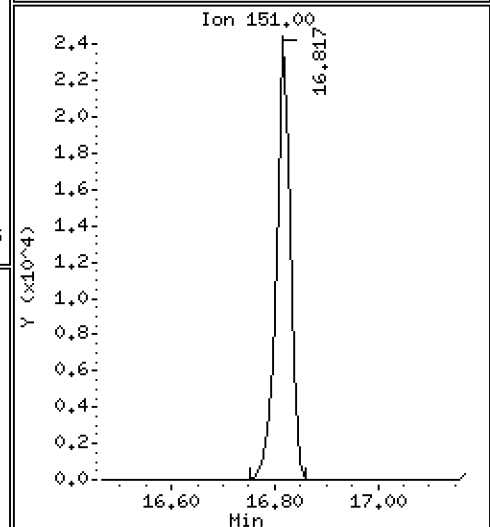
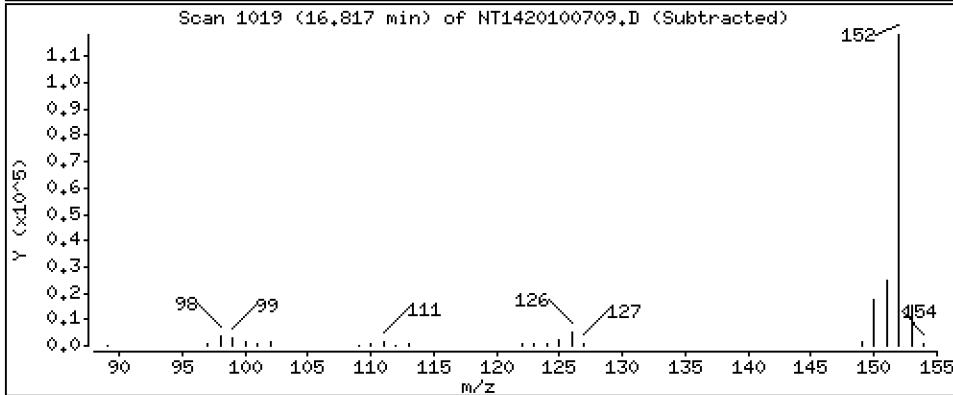
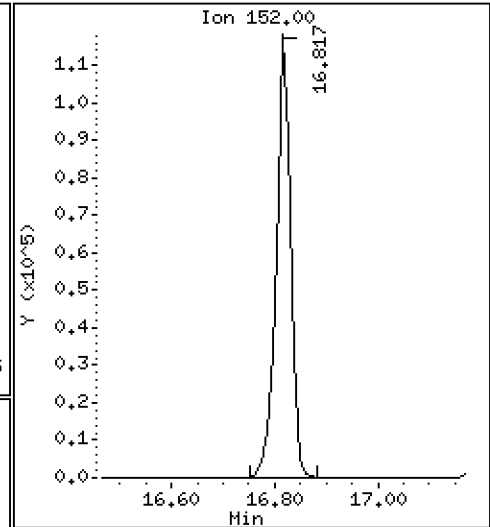
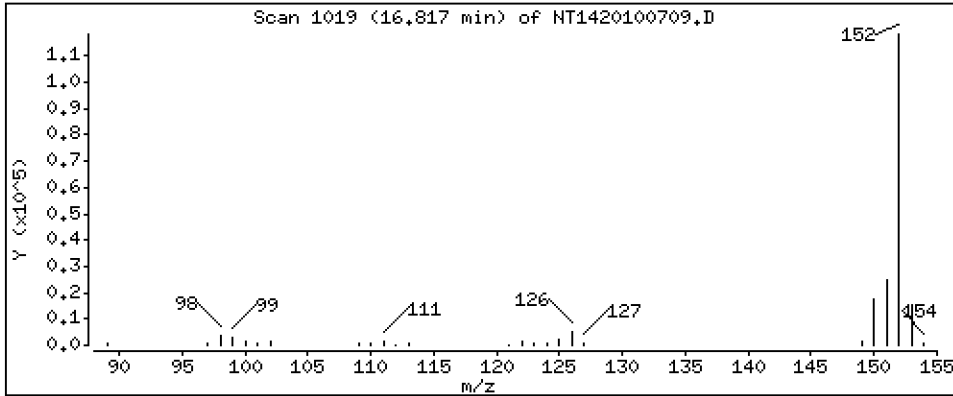
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 2,875 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

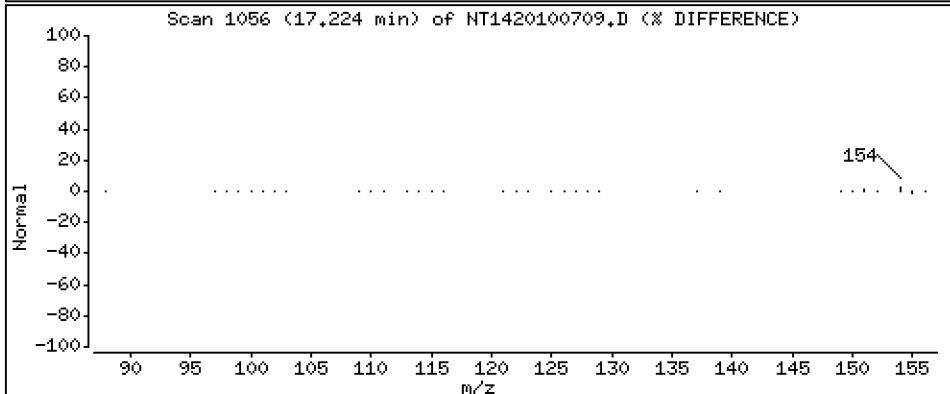
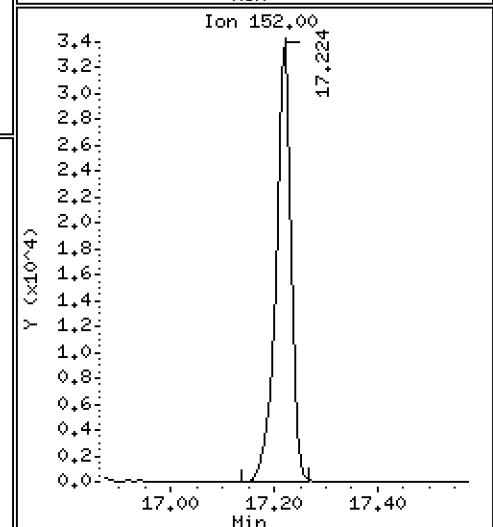
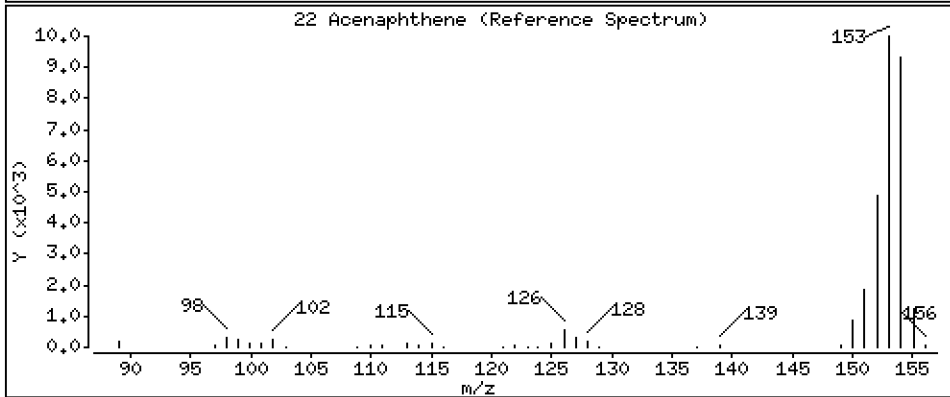
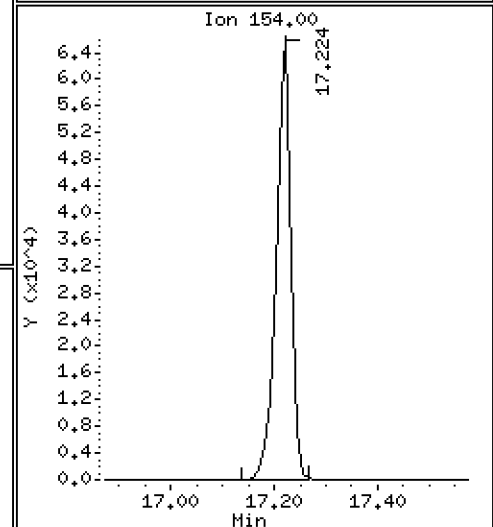
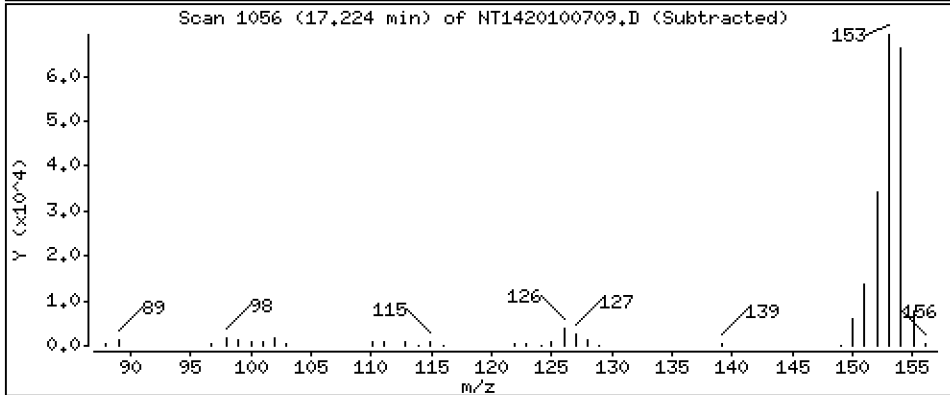
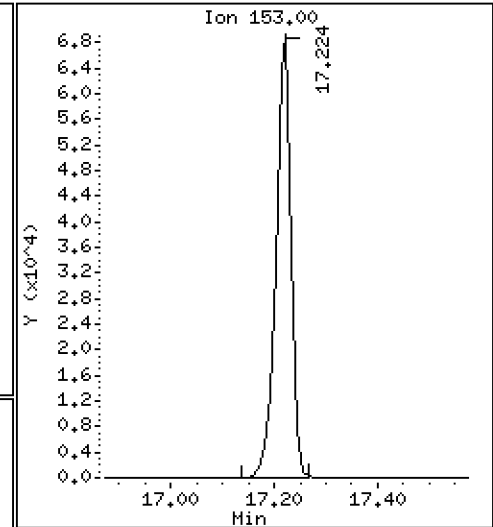
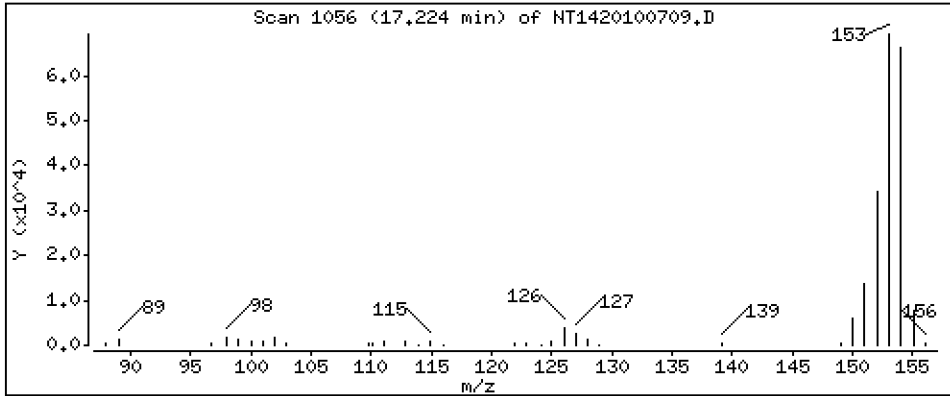
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

22 Acenaphthene

Concentration: 2,714 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

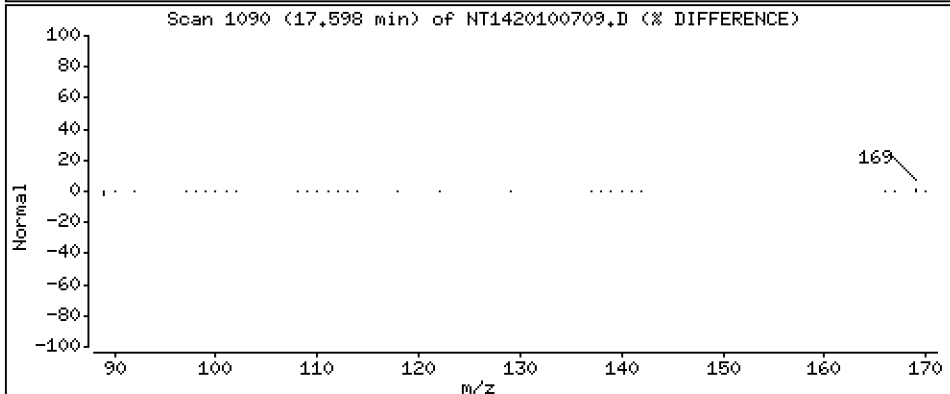
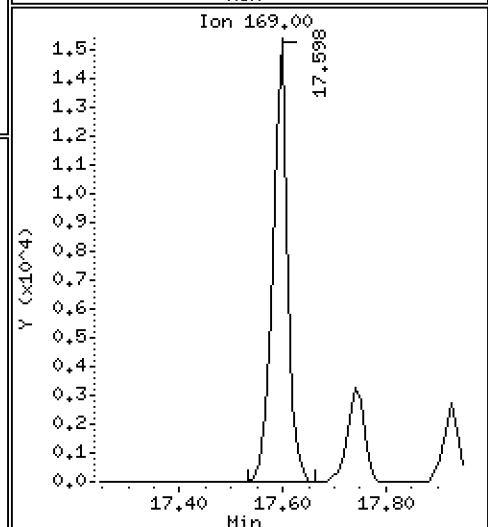
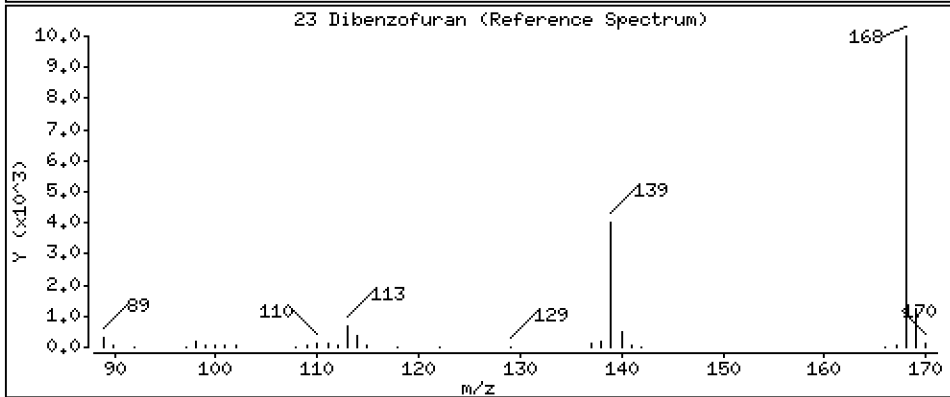
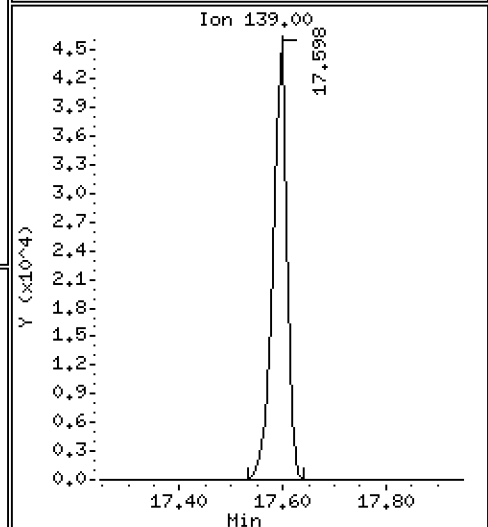
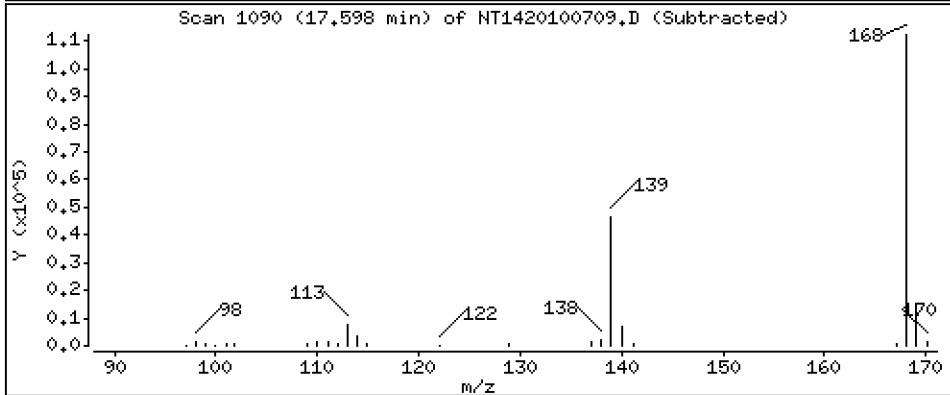
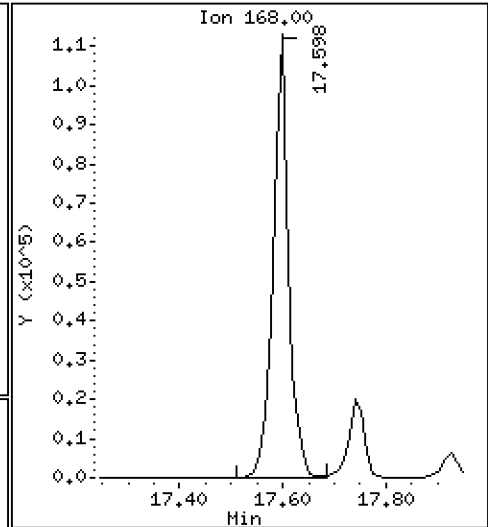
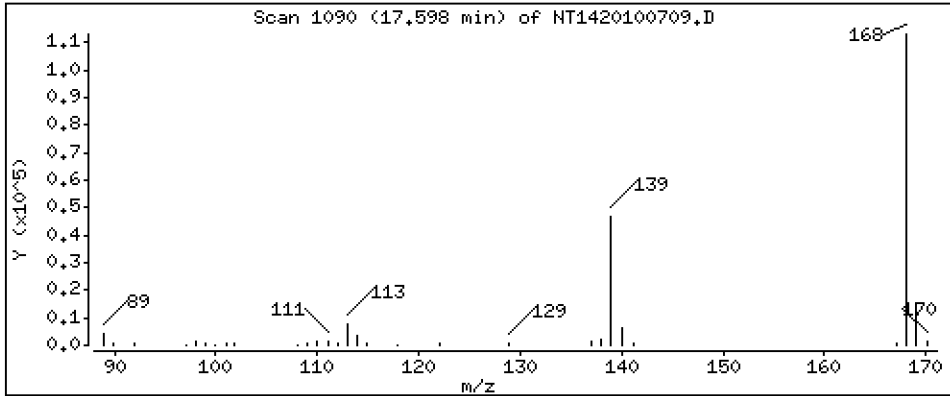
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 3,090 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

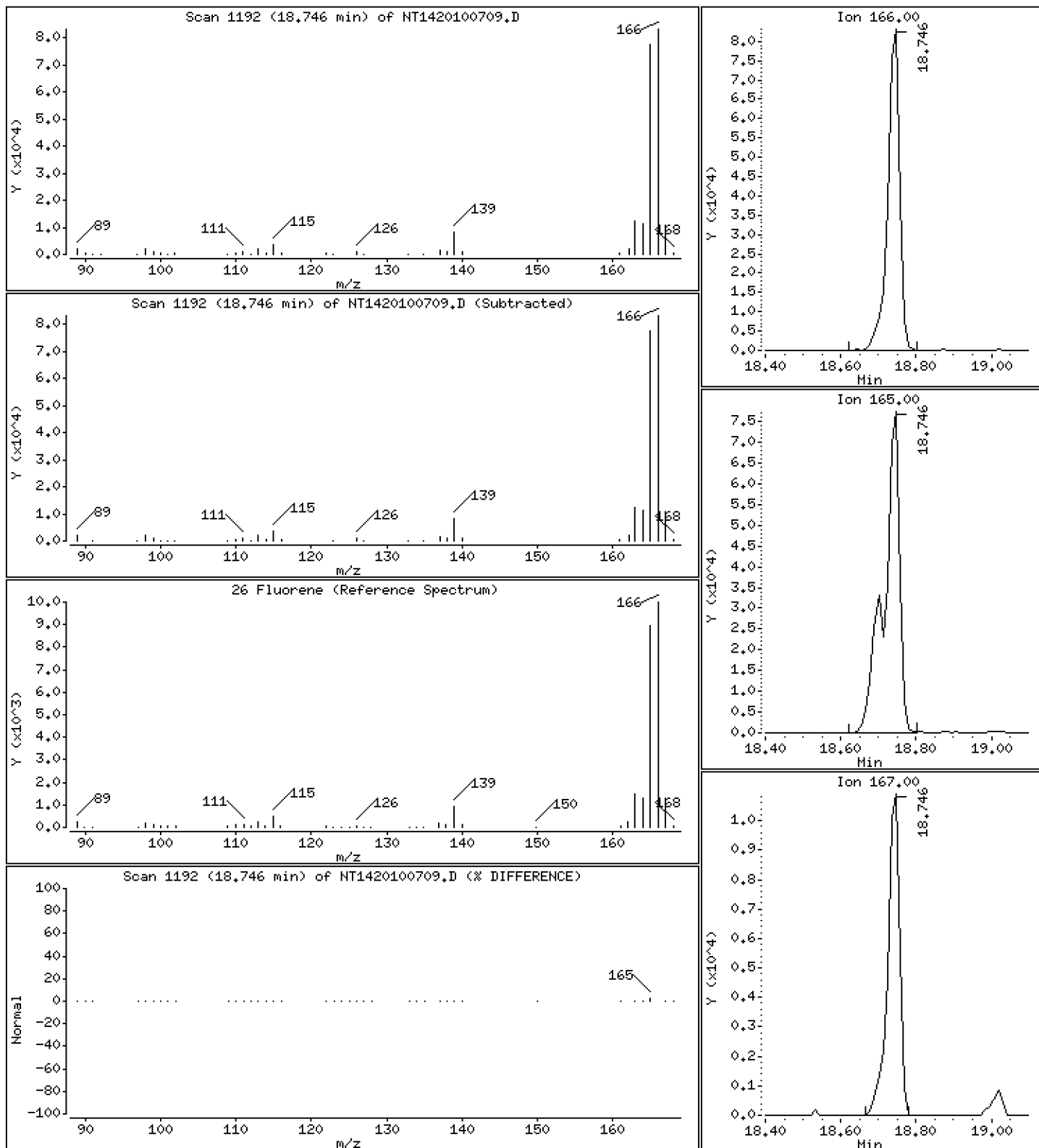
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 2,967 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

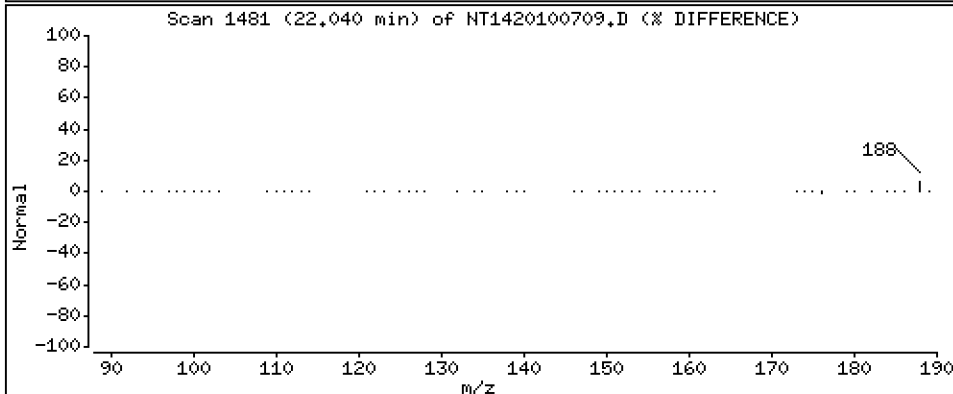
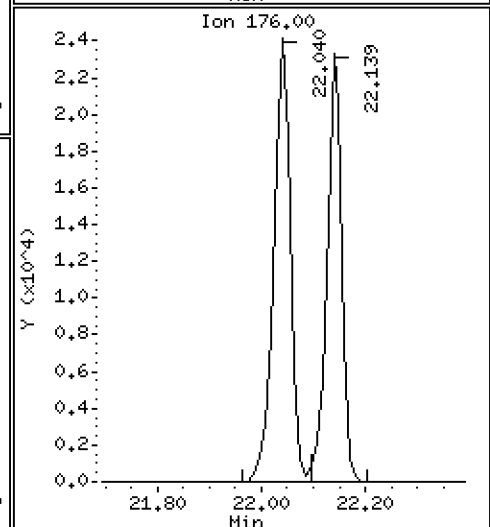
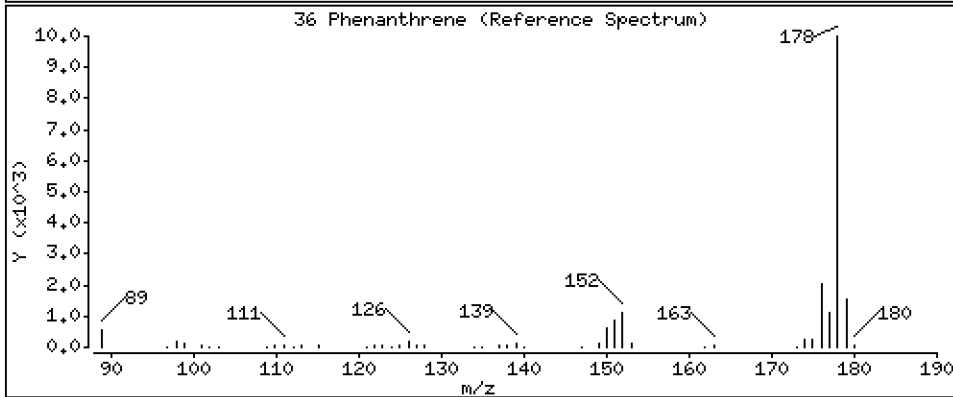
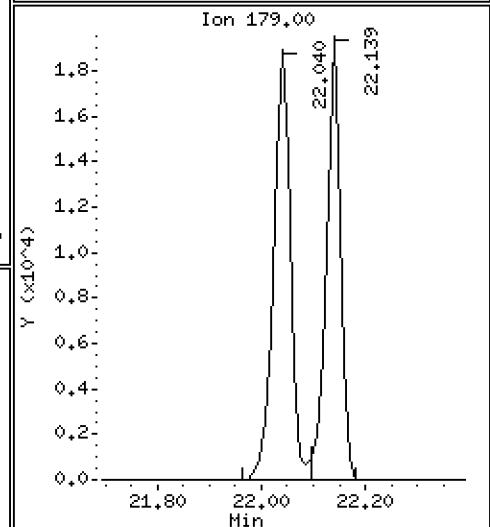
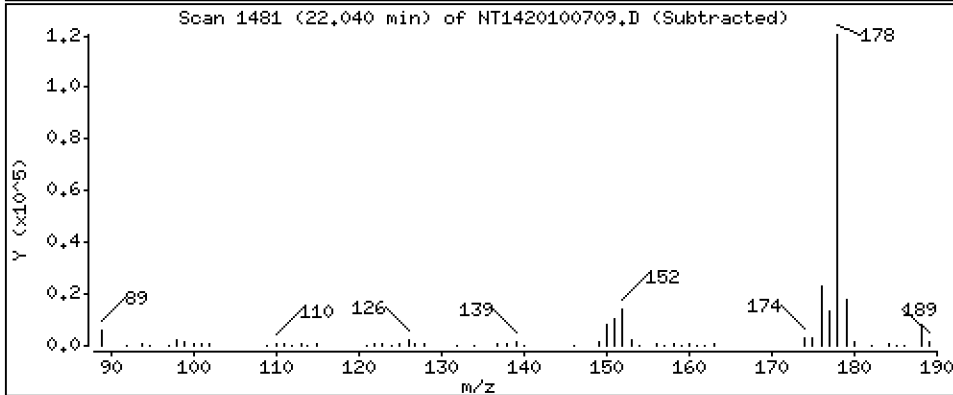
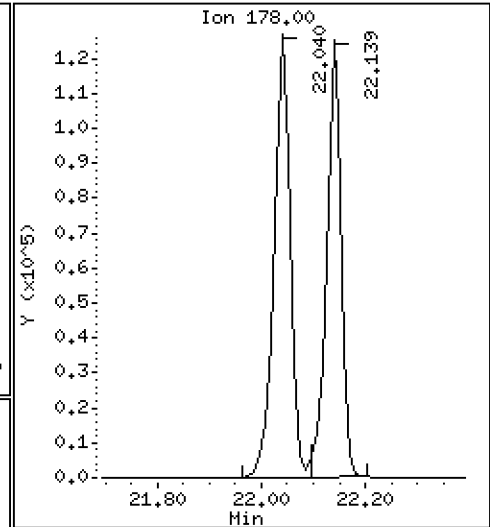
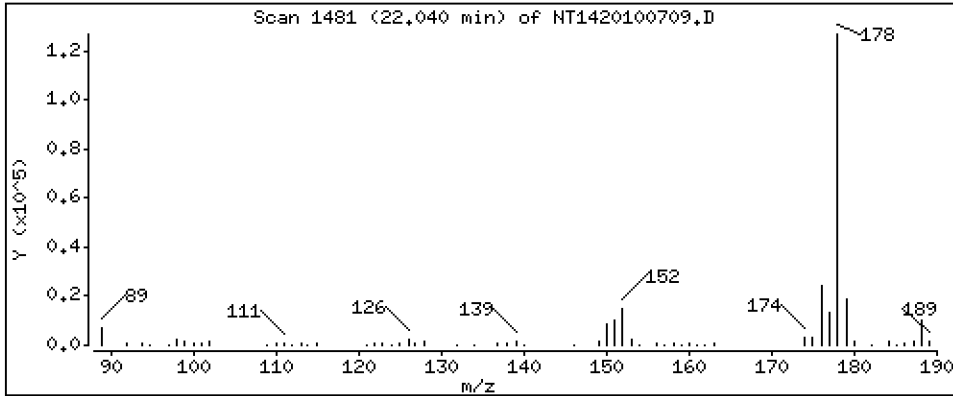
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

36 Phenanthrene

Concentration: 2,454 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

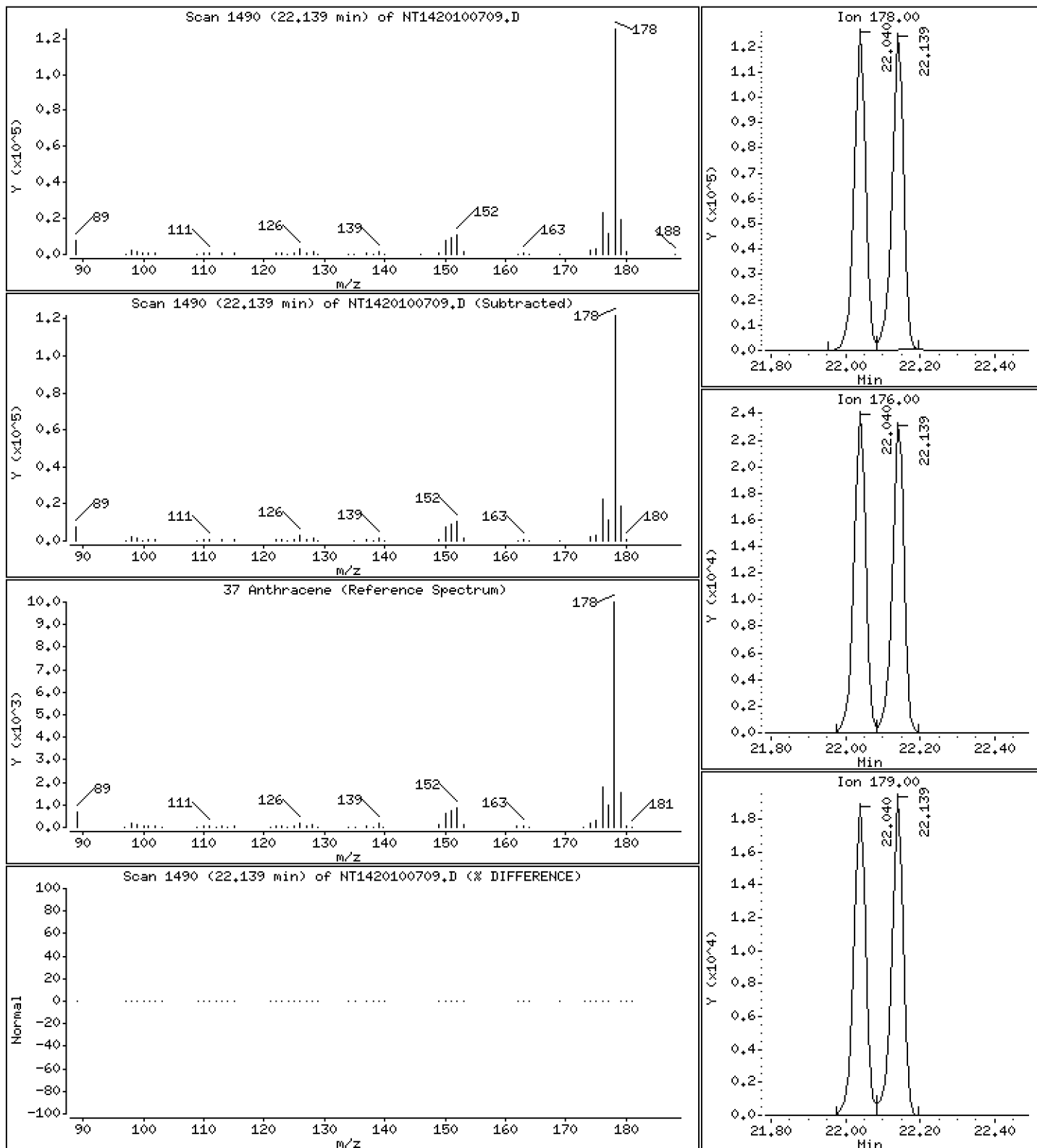
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 2,385 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

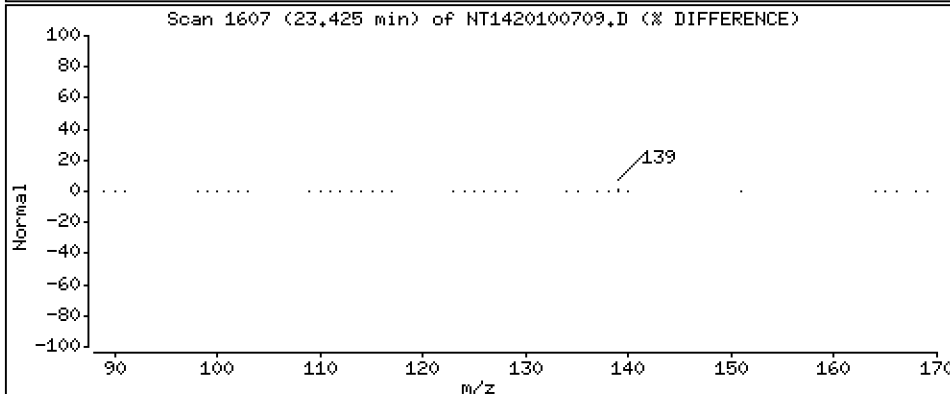
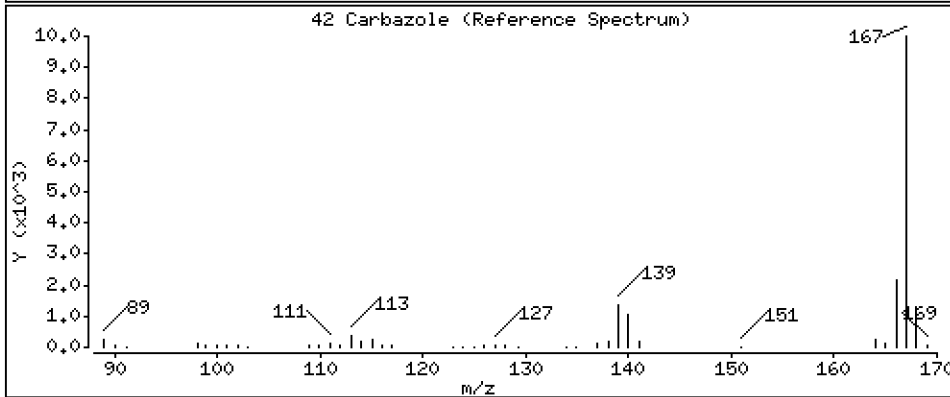
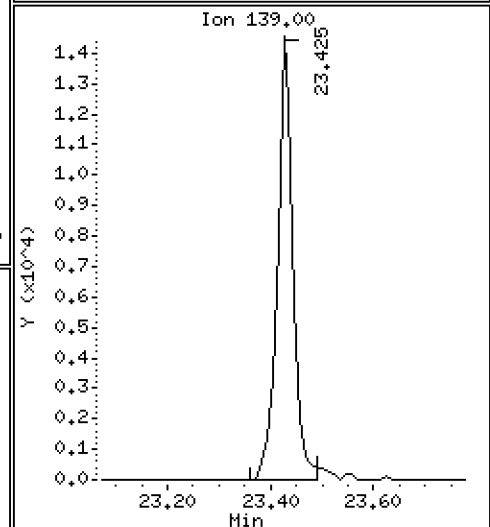
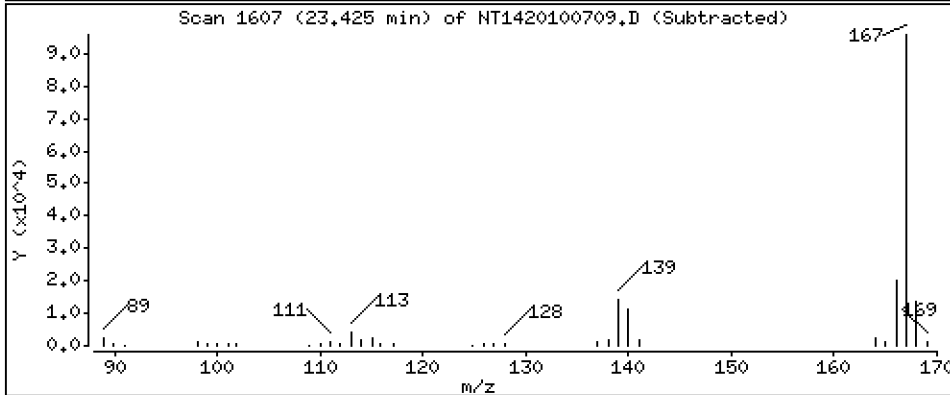
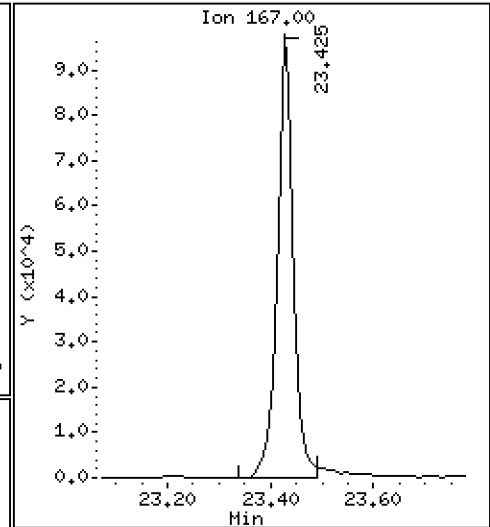
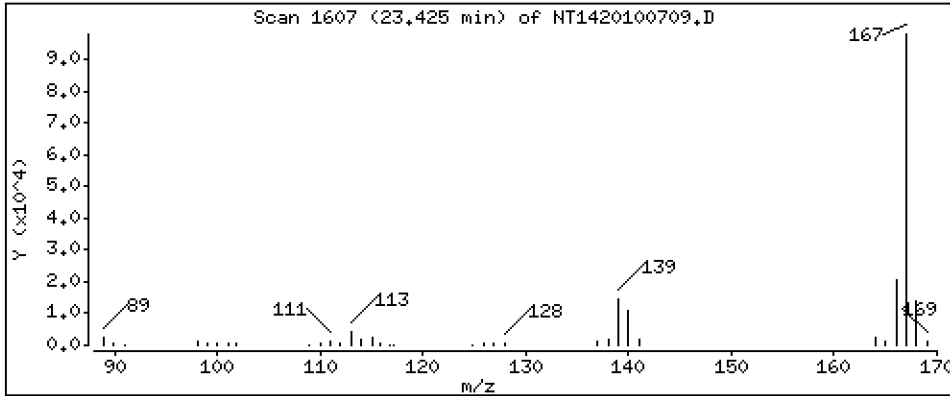
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 2,354 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

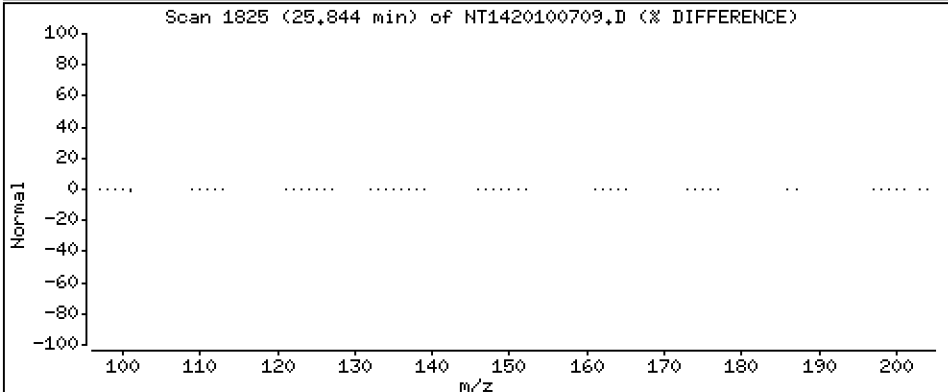
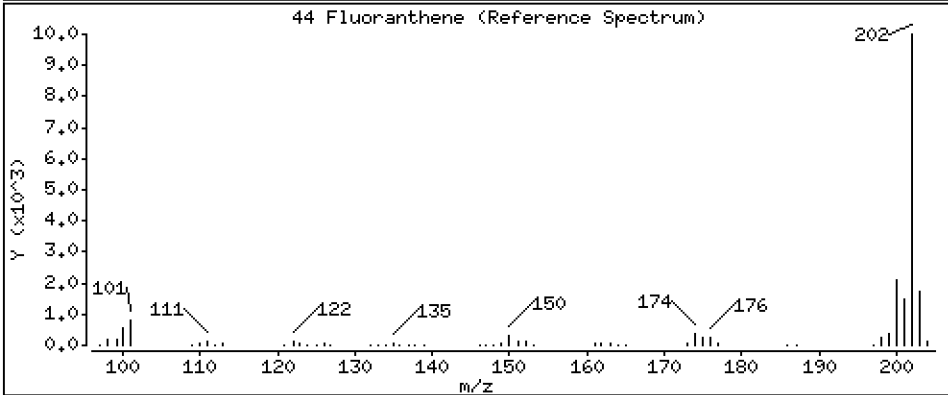
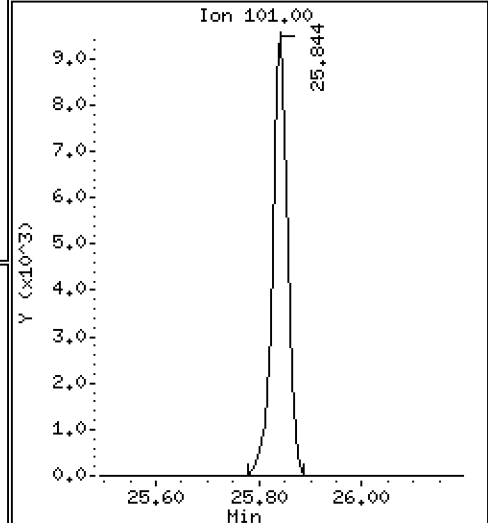
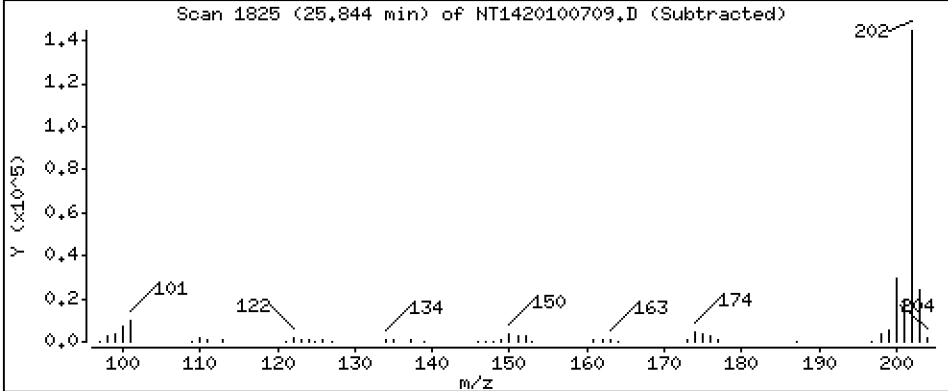
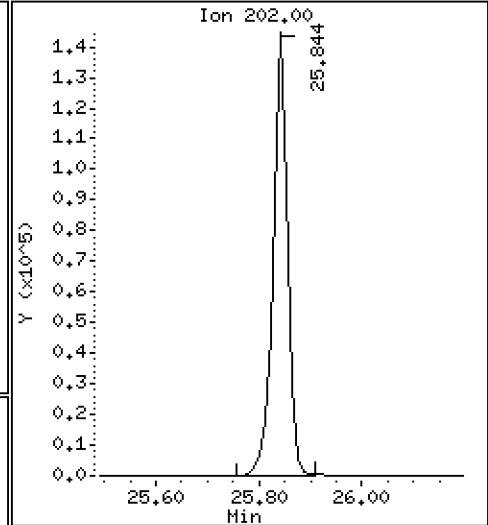
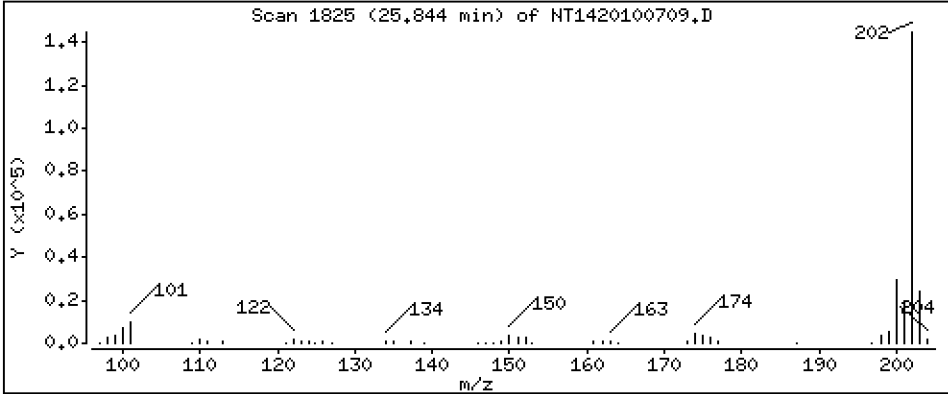
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 2,436 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

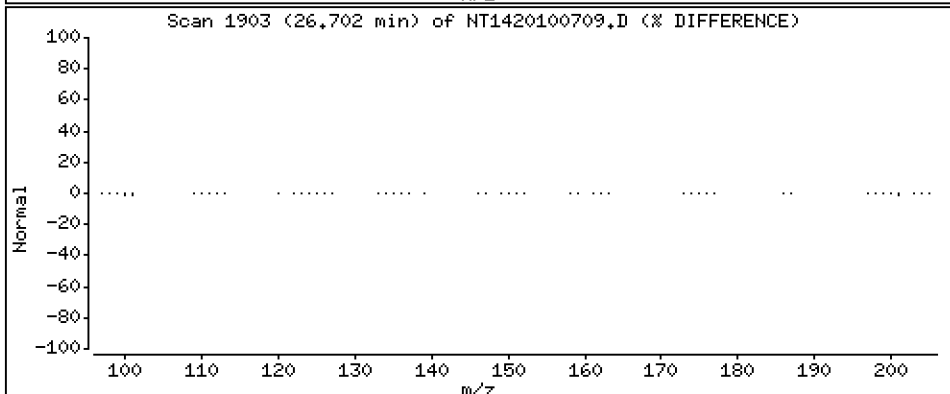
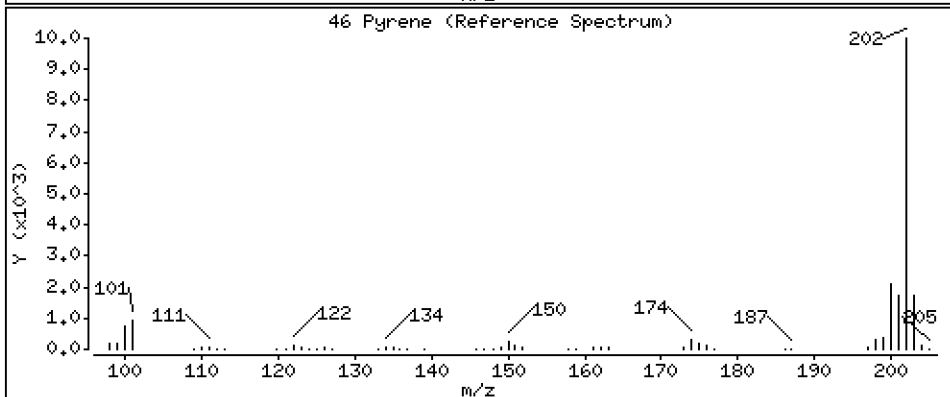
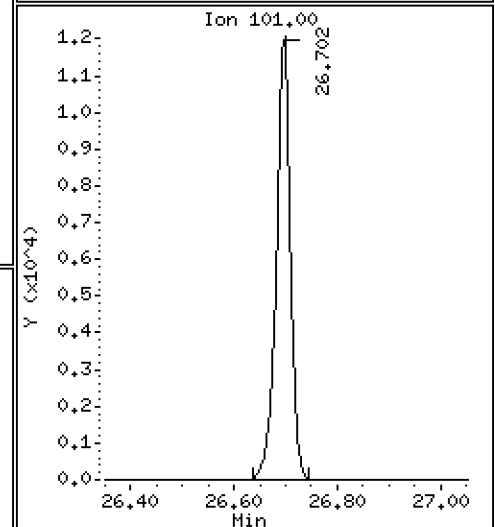
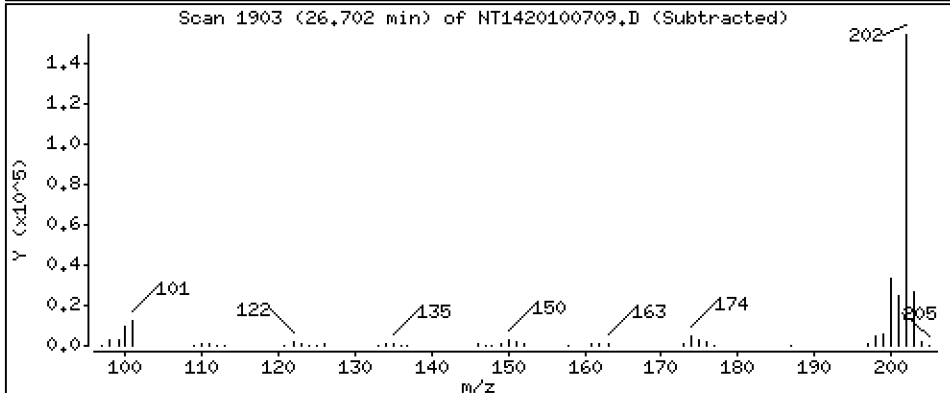
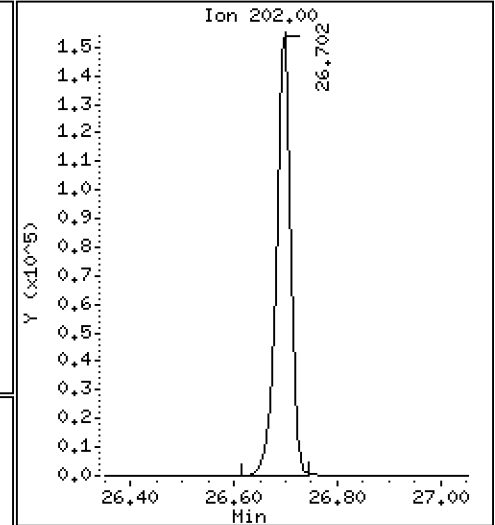
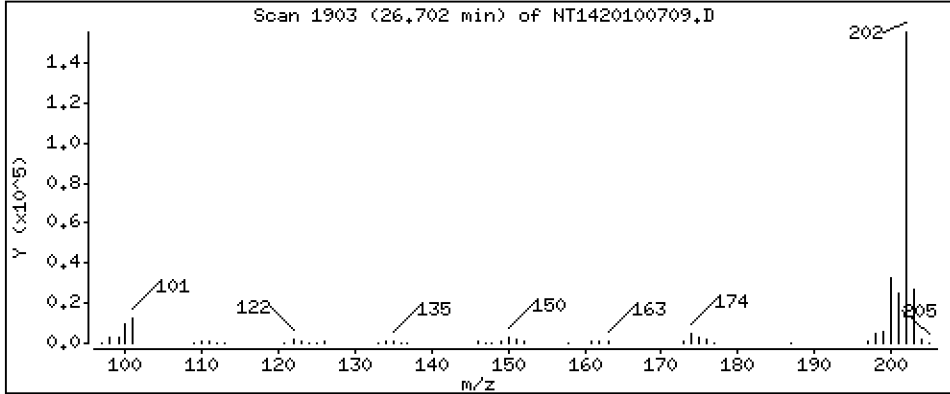
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 2,497 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

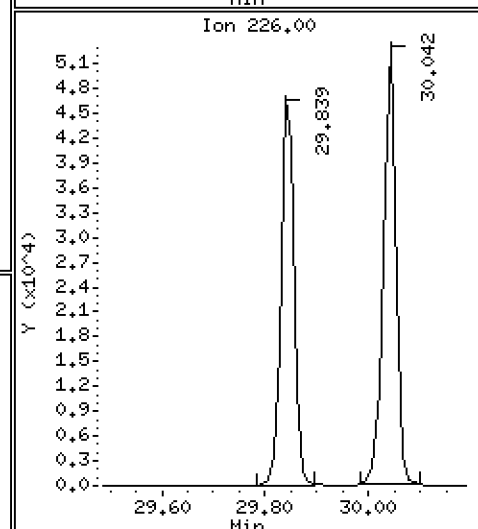
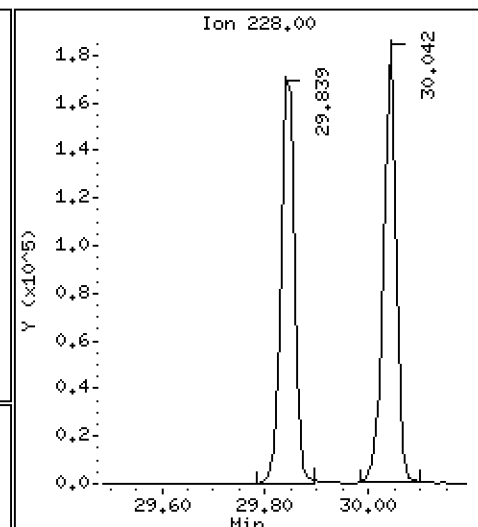
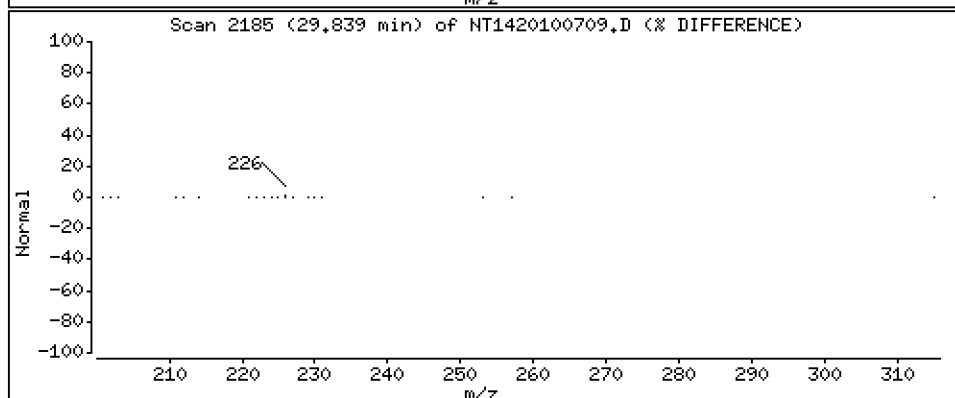
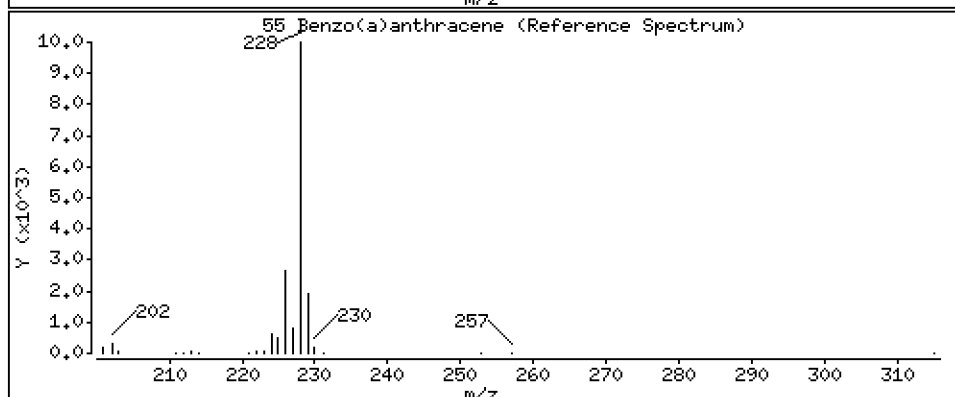
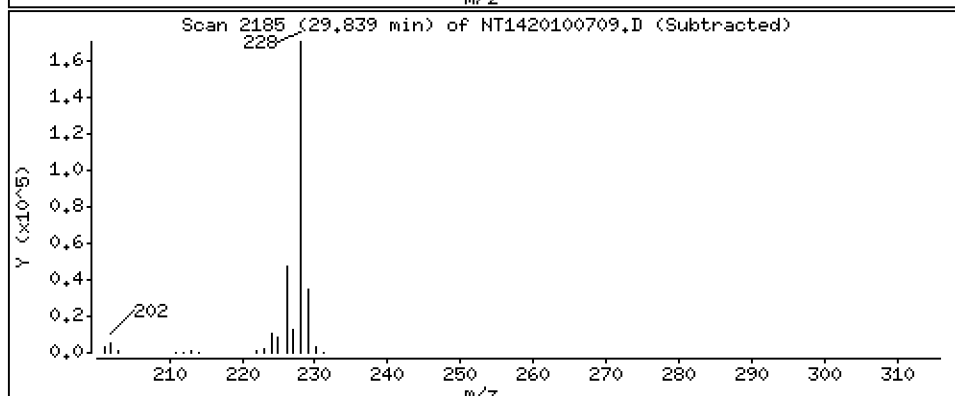
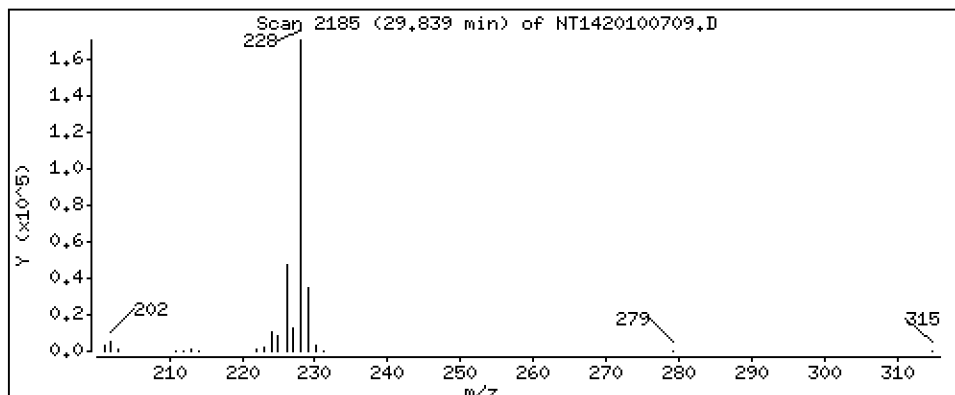
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 2,581 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

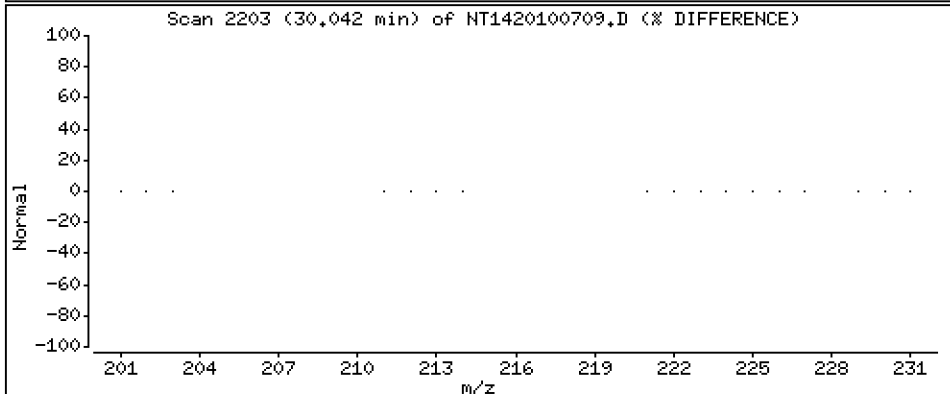
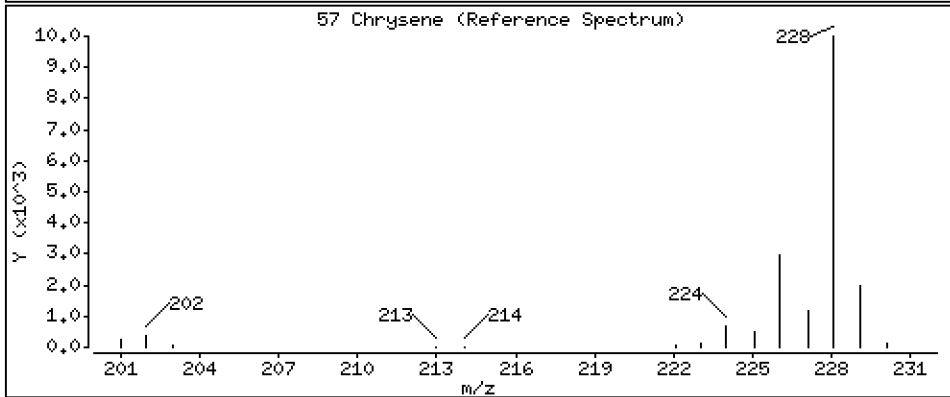
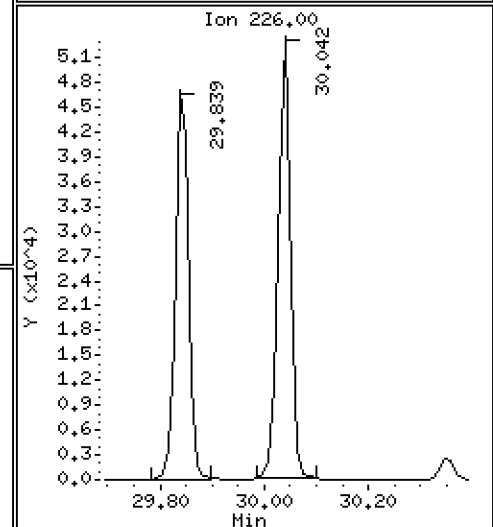
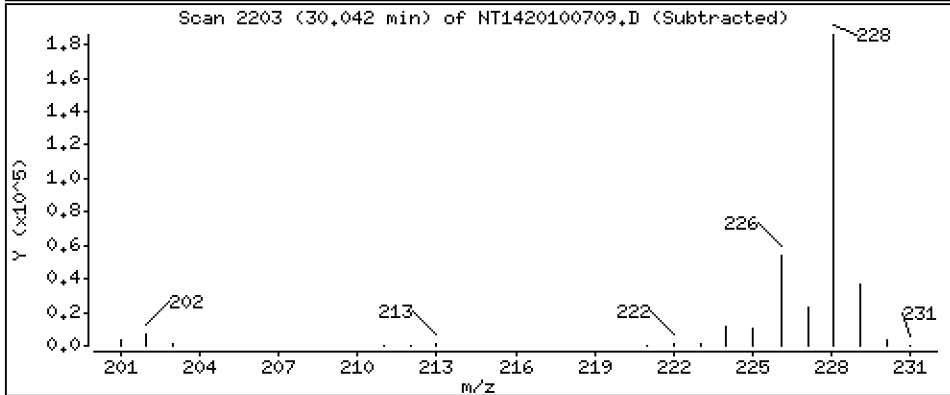
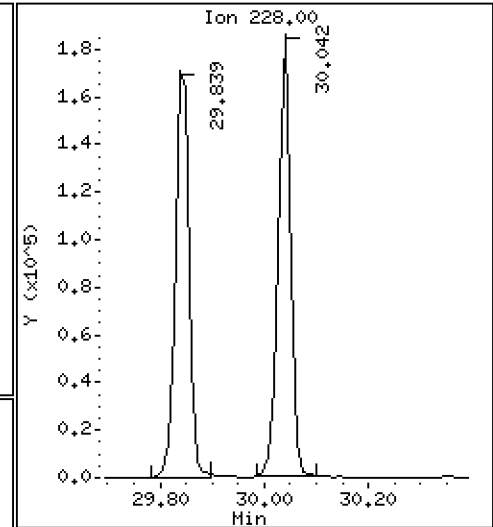
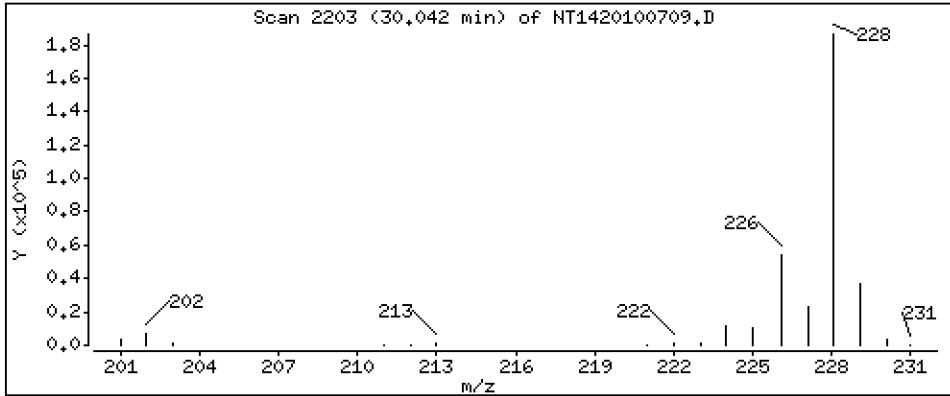
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 2,516 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

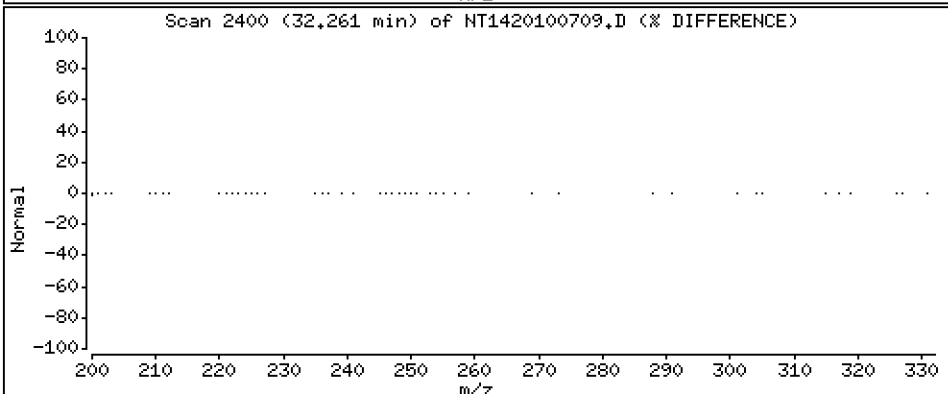
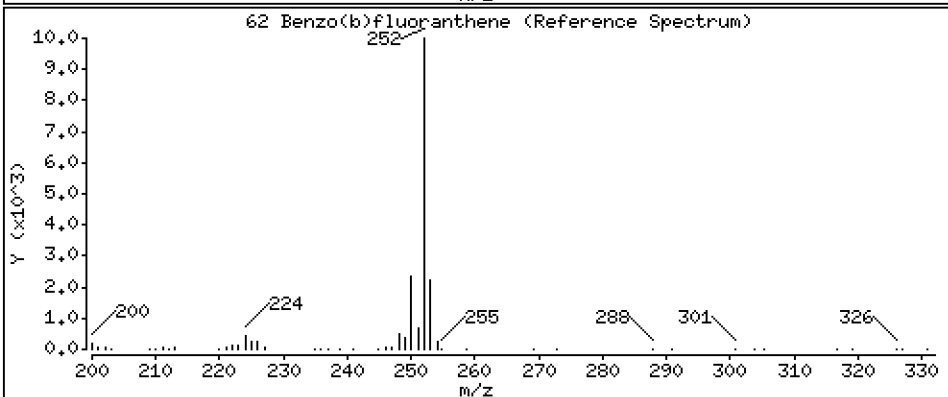
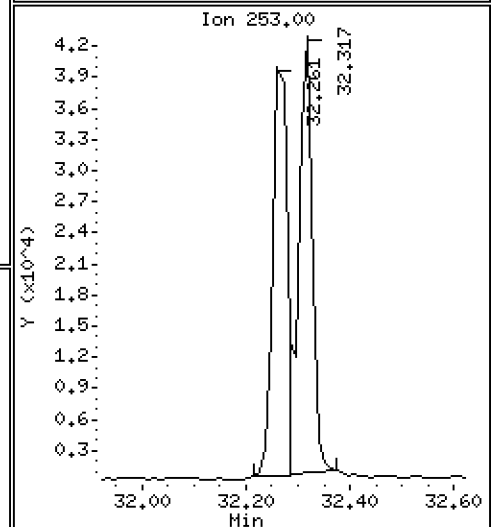
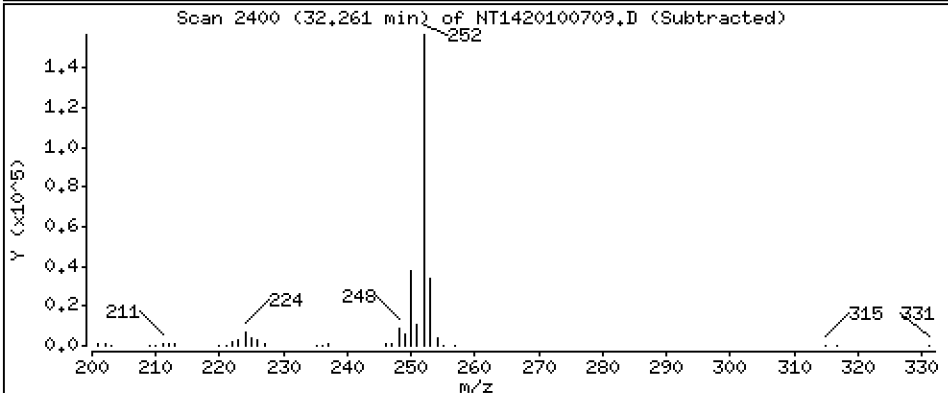
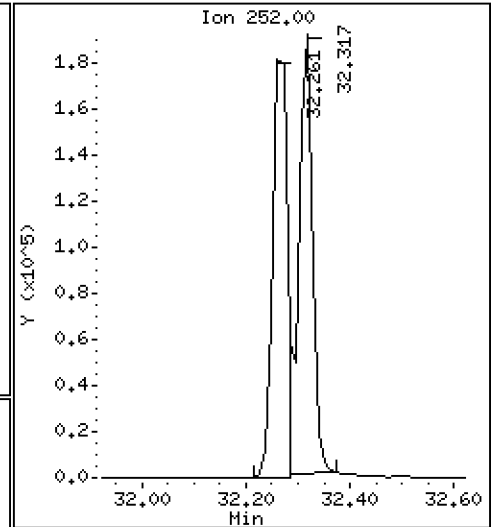
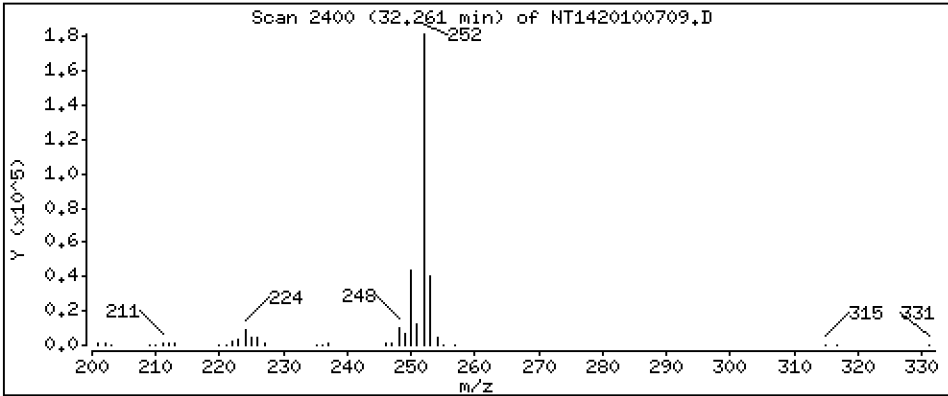
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 2,387 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

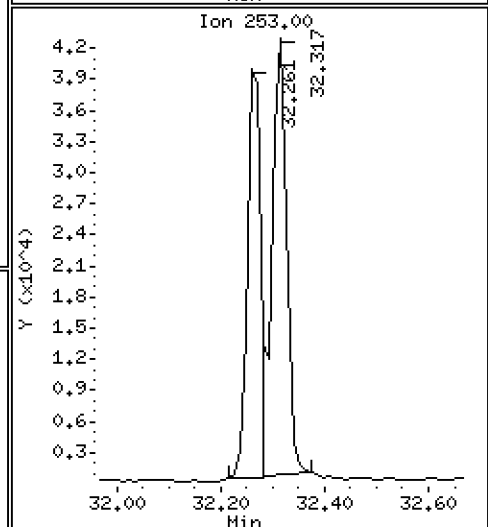
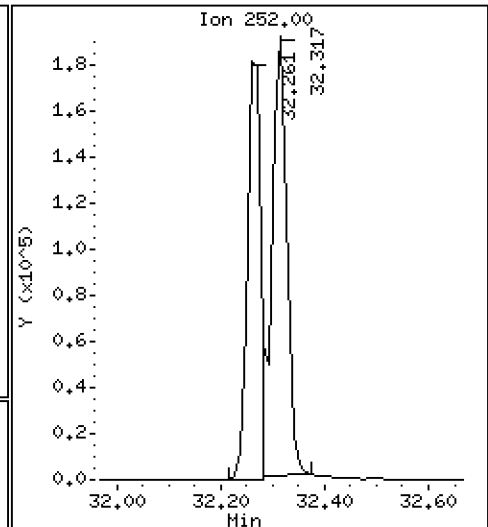
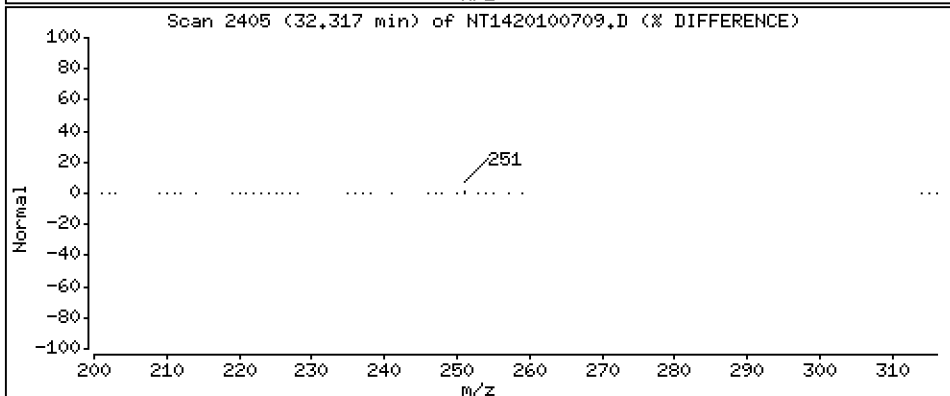
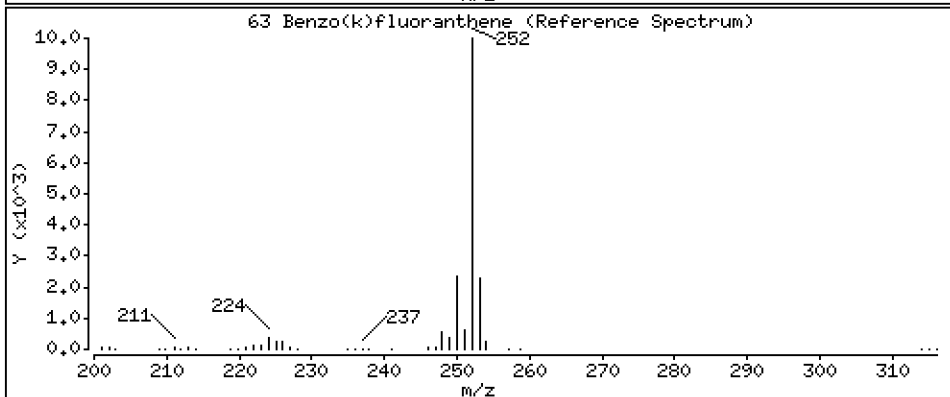
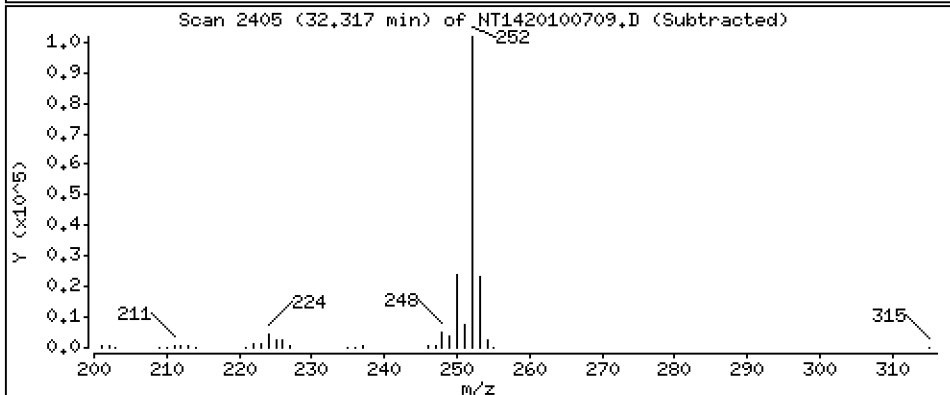
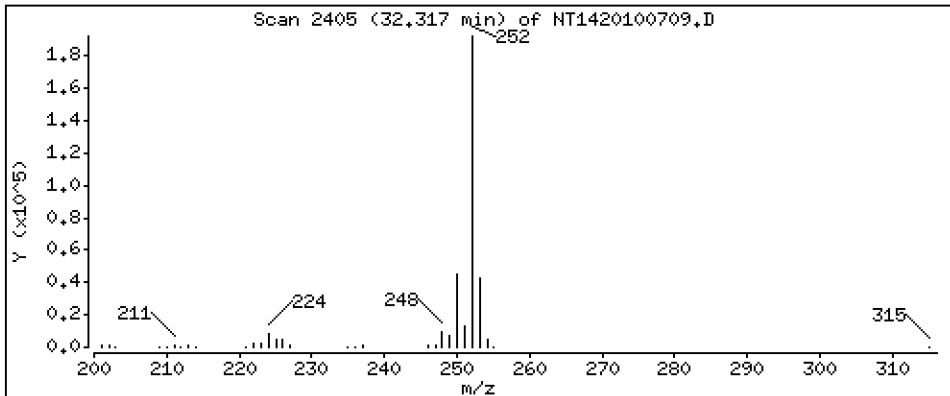
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 2,656 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

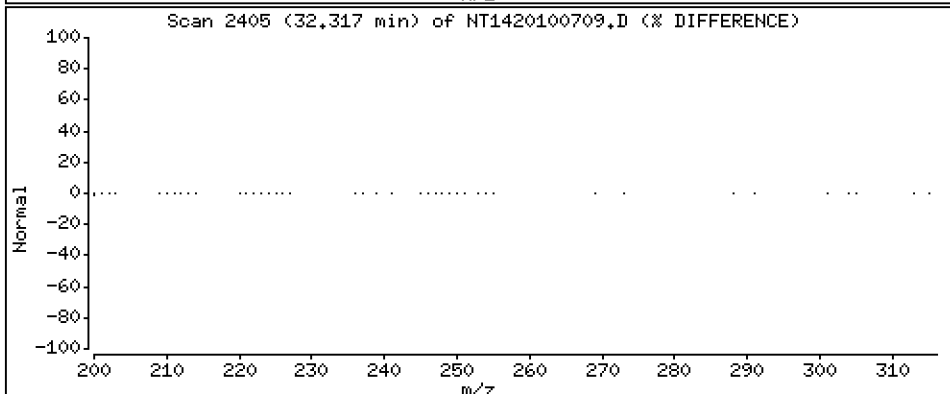
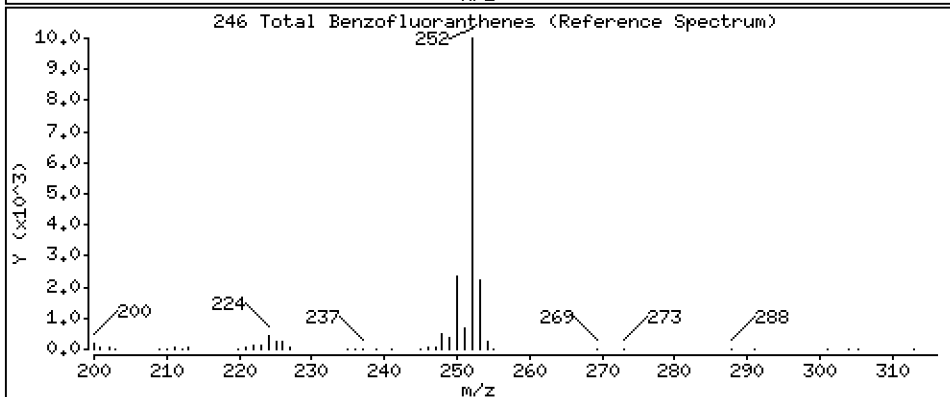
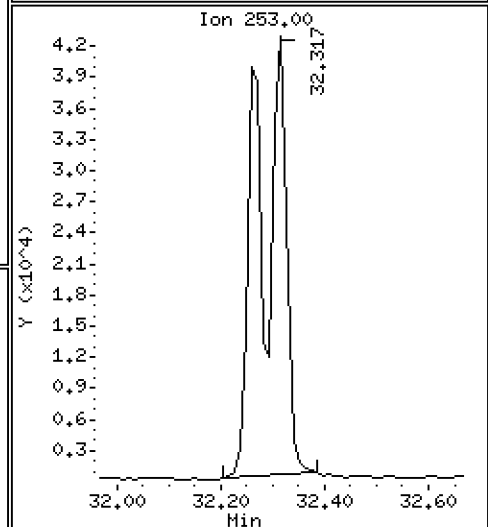
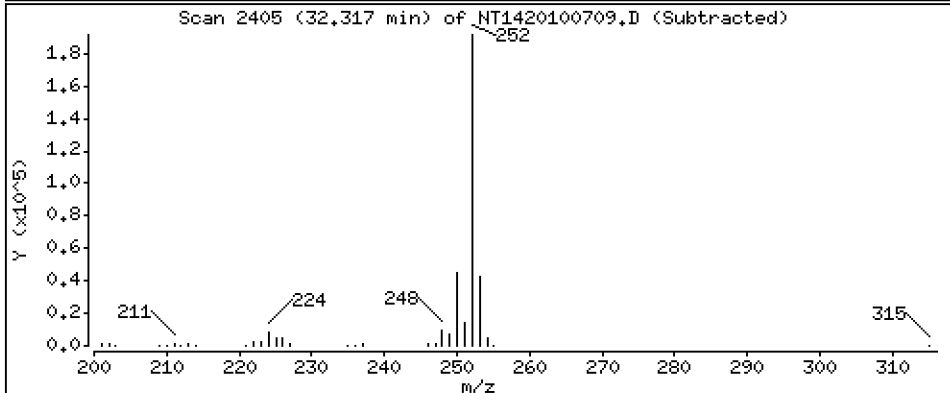
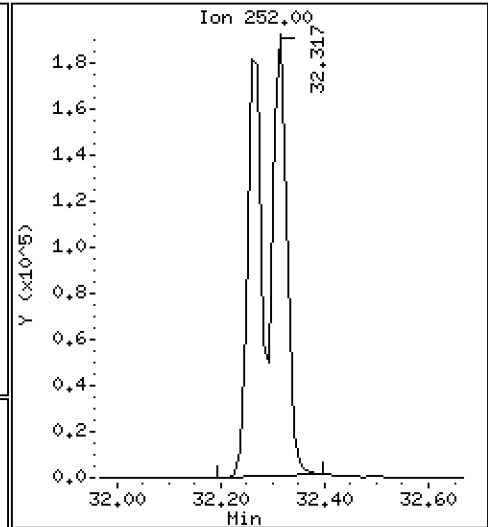
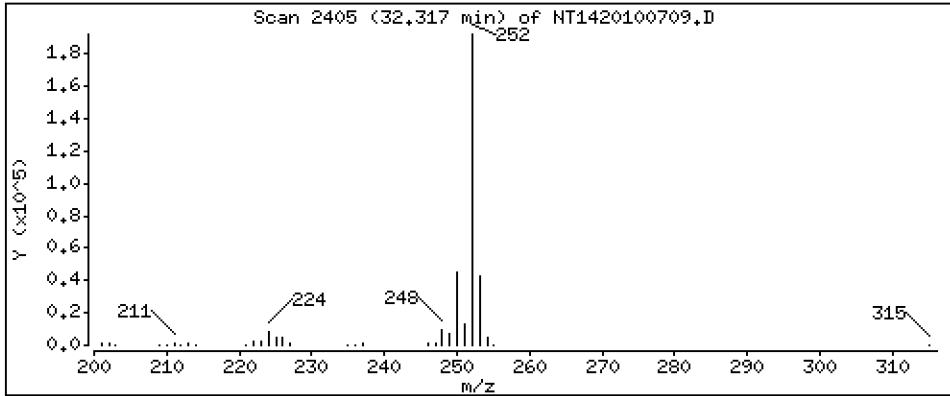
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 5,207 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

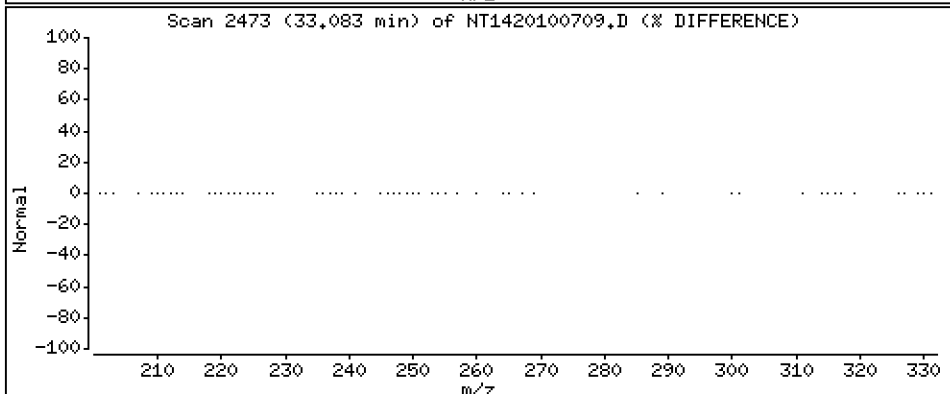
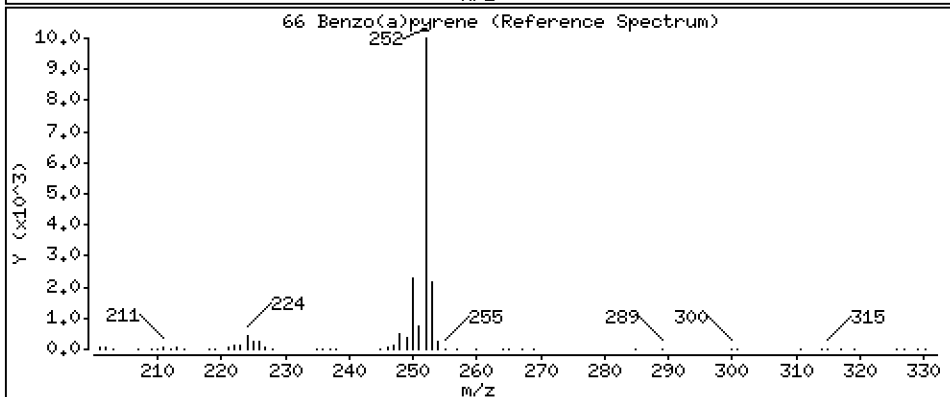
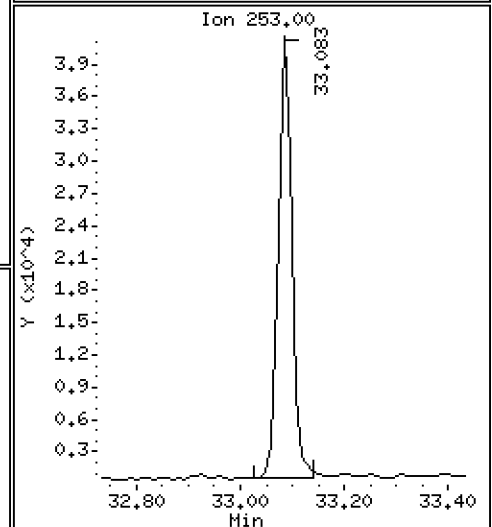
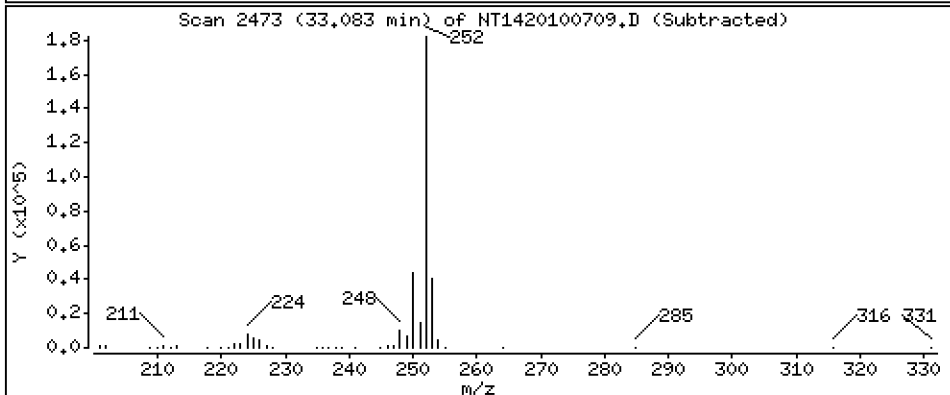
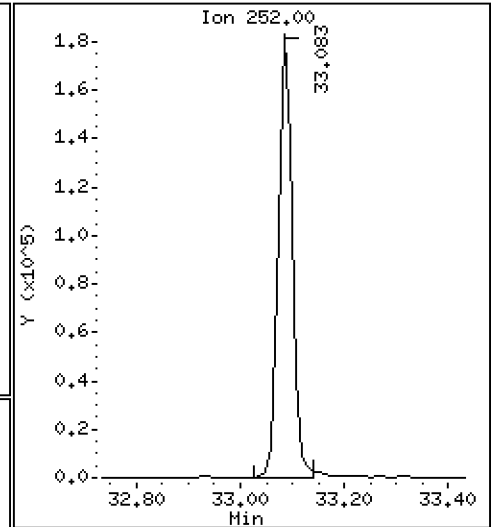
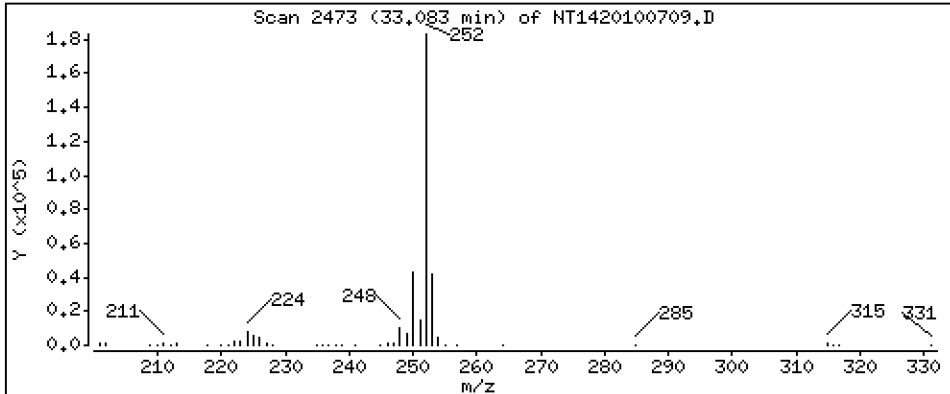
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 2,617 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

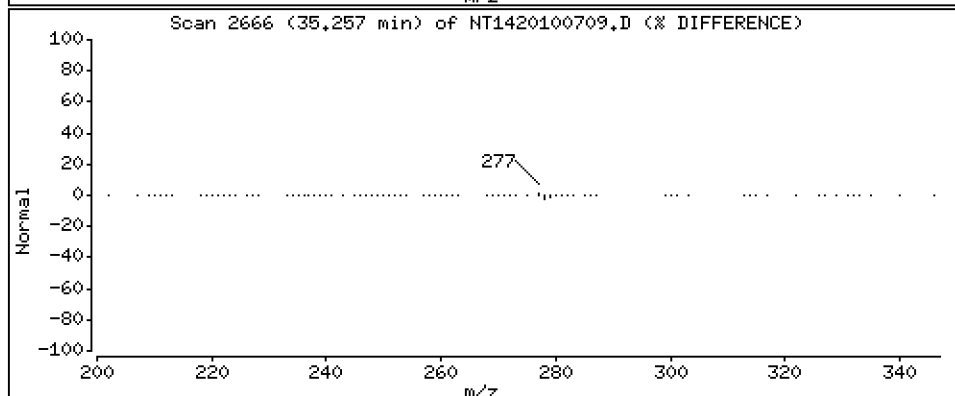
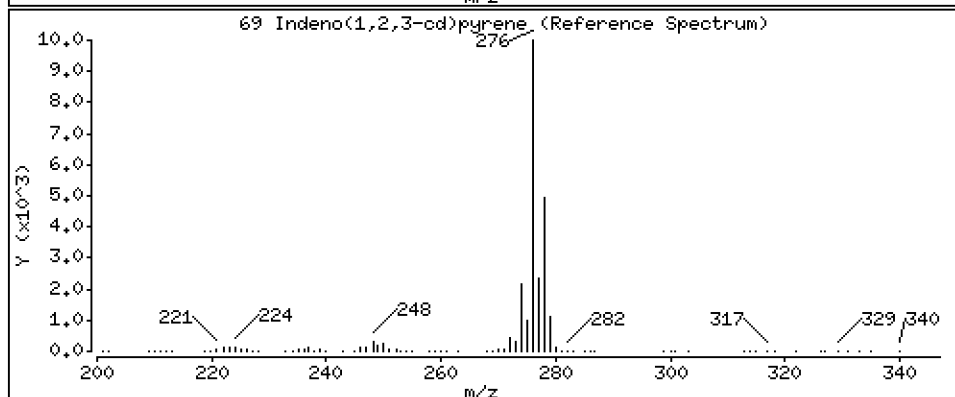
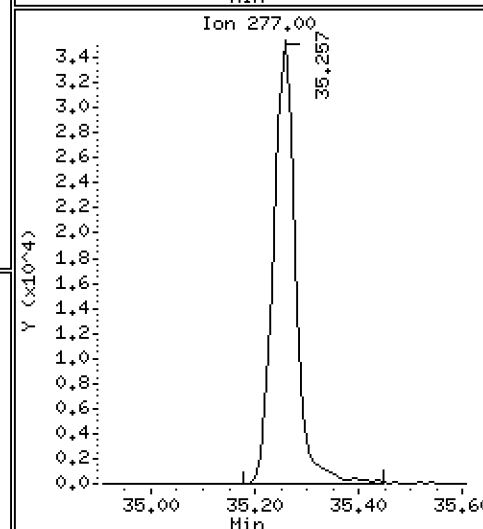
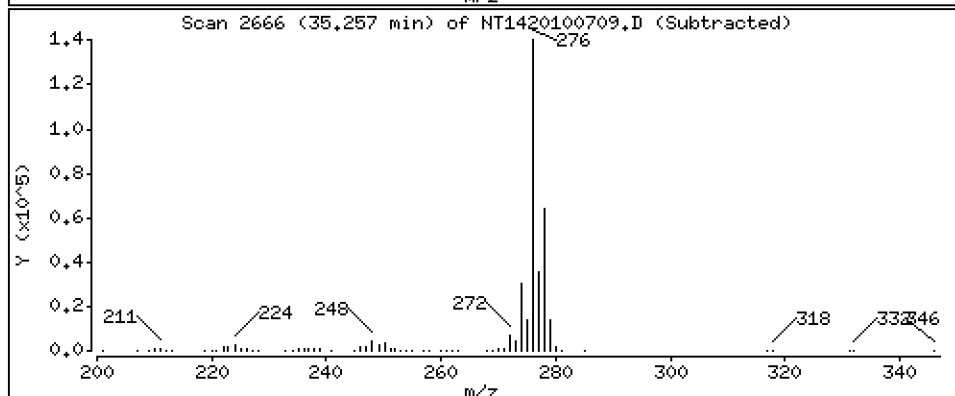
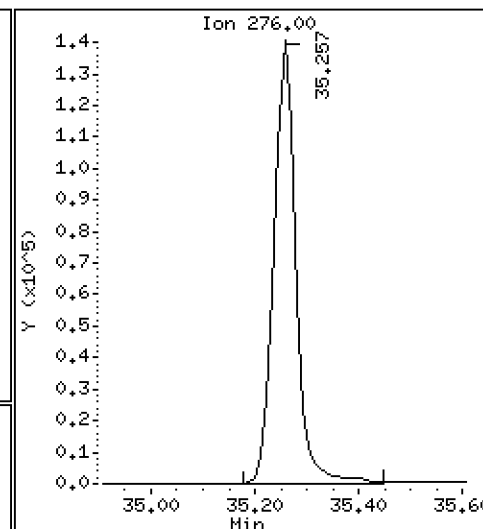
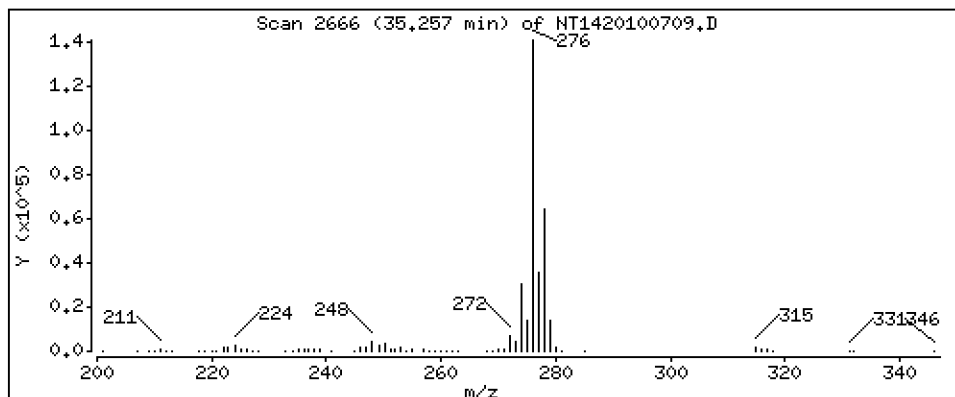
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 2,625 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

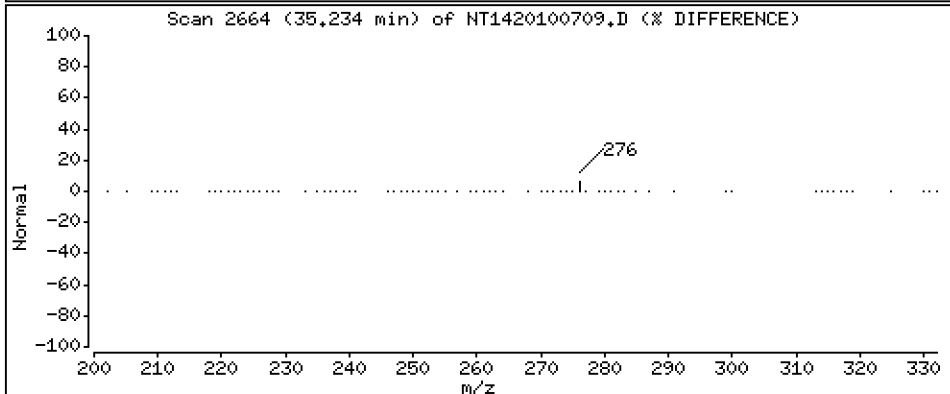
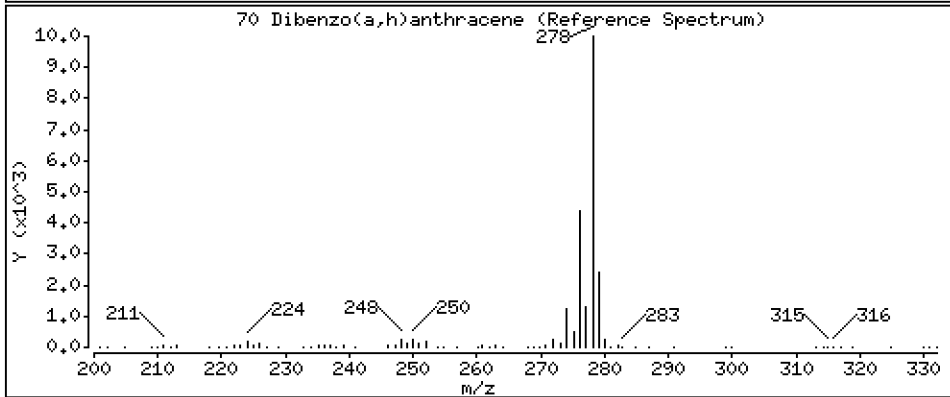
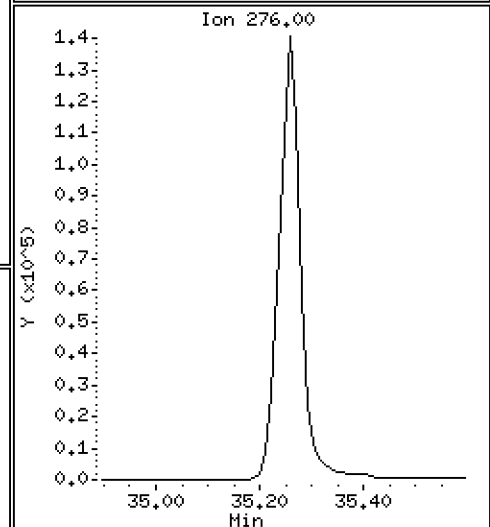
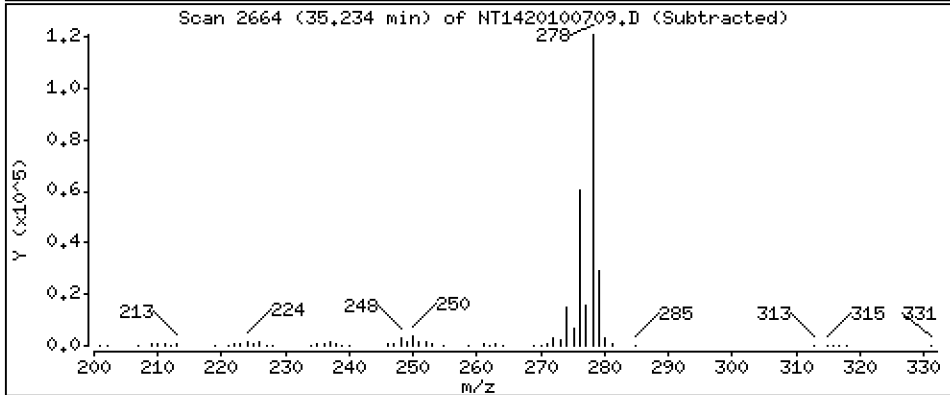
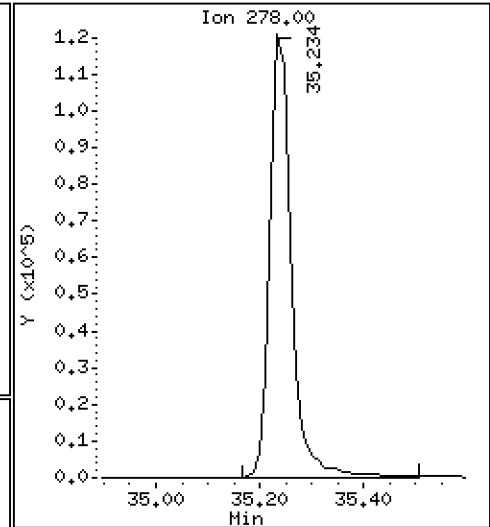
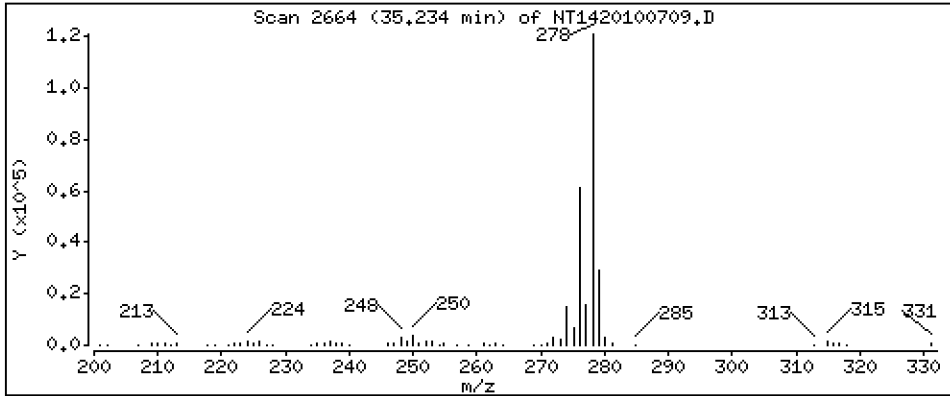
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 2,517 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

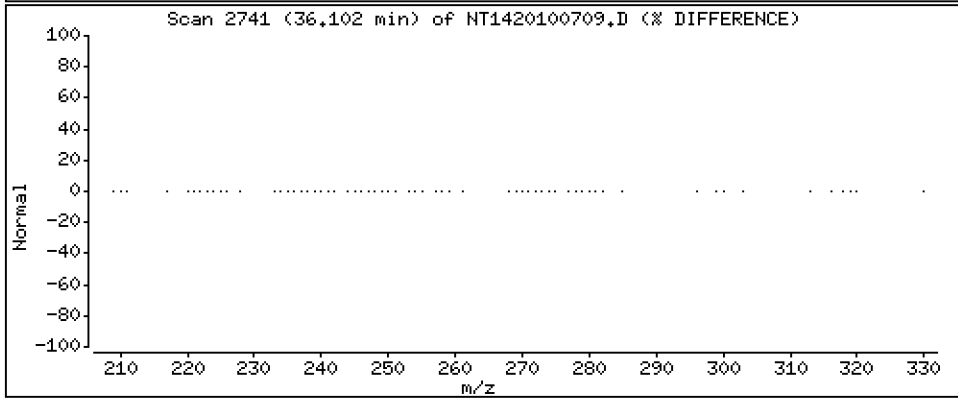
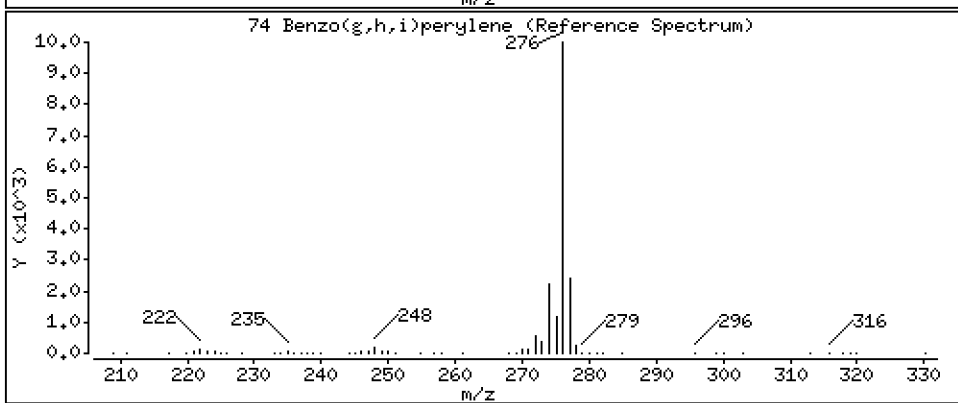
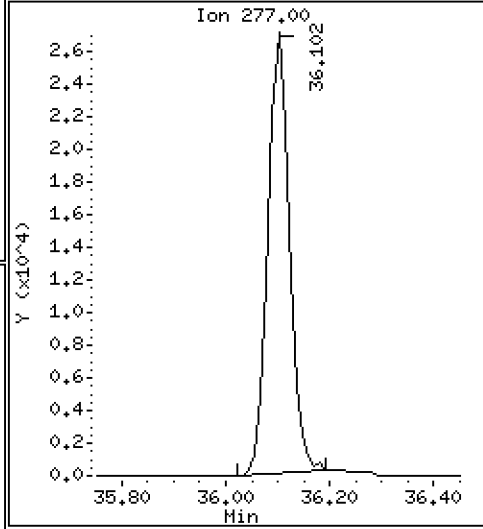
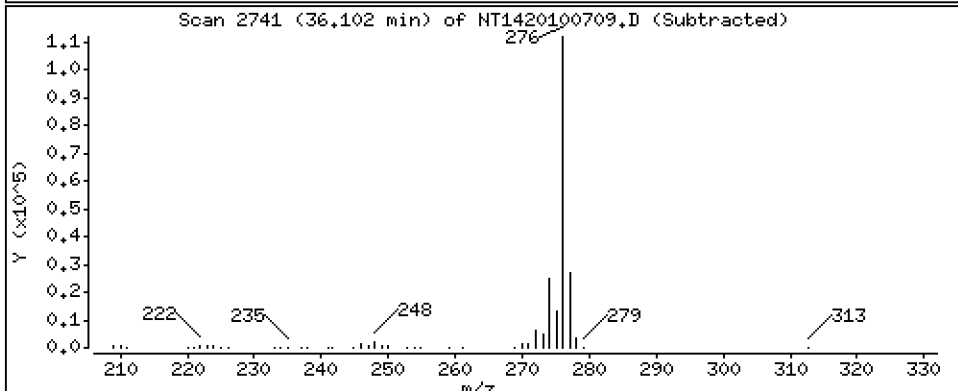
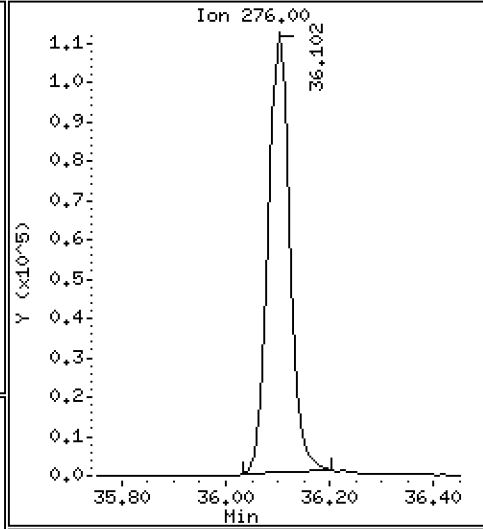
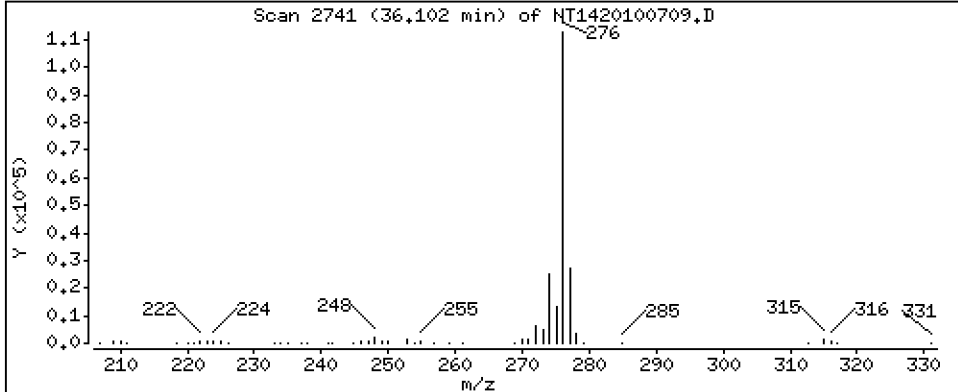
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 2,329 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100709.D
 Lab Smp Id: SIJ0085-SCV1
 Inj Date : 07-OCT-2020 16:45
 Operator : VTS
 Smp Info : SIJ0085-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138							
2 cis-Decalin	138							
\$ 6 Naphthalene-d8	136							
7 Naphthalene	128		11.707	11.707	(0.628)	213173	2.75707	2.757
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	132308	2.80714	2.807
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	134040	2.83535	2.835
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152		16.817	16.817	(0.903)	244094	2.87456	2.875
\$ 21 Acenaphthene-d10	164		17.135	17.103	(0.920)	20448	0.44062	0.4406(R)
22 Acenaphthene	153		17.223	17.223	(0.924)	150978	2.71407	2.714
23 Dibenzofuran	168		17.597	17.597	(0.944)	249328	3.08950	3.090
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	189405	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	186659	2.96697	2.967
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188							
36 Phenanthrene	178		22.040	22.040	(0.999)	276406	2.45432	2.454
* 250 Anthracene-d10	188		22.072	22.072	(1.000)	203362	2.00000	
37 Anthracene	178		22.138	22.138	(1.003)	263969	2.38495	2.385
42 Carbazole	167		23.425	23.425	(1.061)	225622	2.35395	2.354
43 1-Methylphenanthrene	192							
44 Fluoranthene	202		25.843	25.843	(1.171)	302784	2.43596	2.436
46 Pyrene	202		26.701	26.701	(1.210)	327478	2.49671	2.497
51 Naphthobenzothiophene	234							
55 Benzo(a)anthracene	228		29.839	29.839	(0.906)	321298	2.58148	2.581
\$ 56 Chrysene-d12	240							
57 Chrysene	228		30.042	30.042	(0.912)	311187	2.51557	2.516
62 Benzo(b)fluoranthene	252		32.260	32.272	(0.980)	335486	2.38726	2.387
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	376214	2.65607	2.656
293 Benzo(j)fluoranthene	252							
246 Total Benzofluoranthenes	252		32.317	32.317	(0.982)	678991	5.20731	5.207(M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
* 251 Benzo(e)pyrene-d12	264		32.925	32.925	(1.000)	288304	2.00000		
64 Benzo(e)pyrene	252		Compound Not Detected.						
66 Benzo(a)pyrene	252		33.083	33.083	(1.005)	318127	2.61683	2.617	
\$ 67 Perylene-d12	264		Compound Not Detected.						
68 Perylene	252		Compound Not Detected.						
69 Indeno(1,2,3-cd)pyrene	276		35.256	35.256	(1.071)	395155	2.62484	2.625	
70 Dibenzo(a,h)anthracene	278		35.234	35.245	(1.070)	334739	2.51676	2.517	
74 Benzo(g,h,i)perylene	276		36.101	36.101	(1.096)	307983	2.32872	2.329 (M)	

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100709.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	189405	-9.63
250 Anthracene-d10	192407	96204	384814	203362	5.69
251 Benzo(e)pyrene-d1	274120	137060	548240	288304	5.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100709.D

Lab ID: SIJ0085-SCV1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 16:45

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

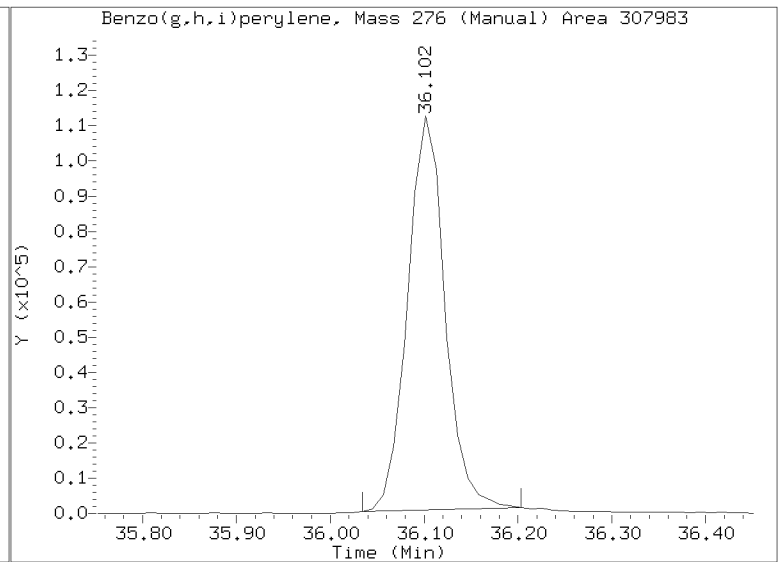
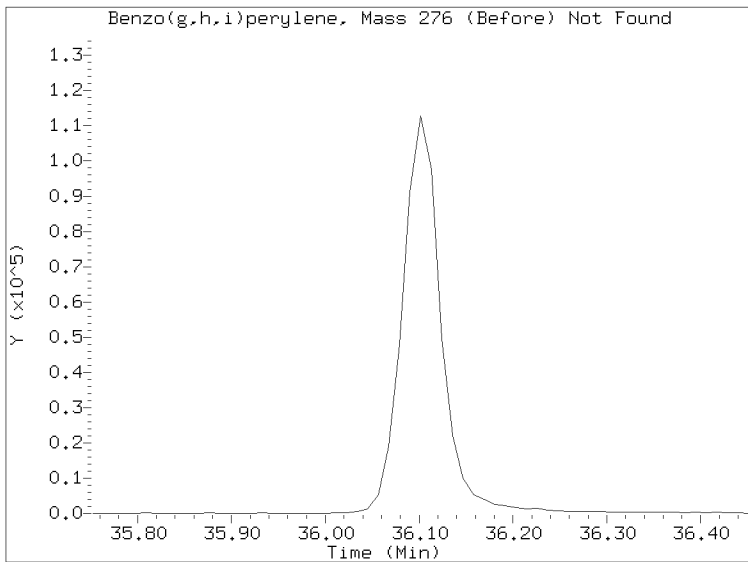
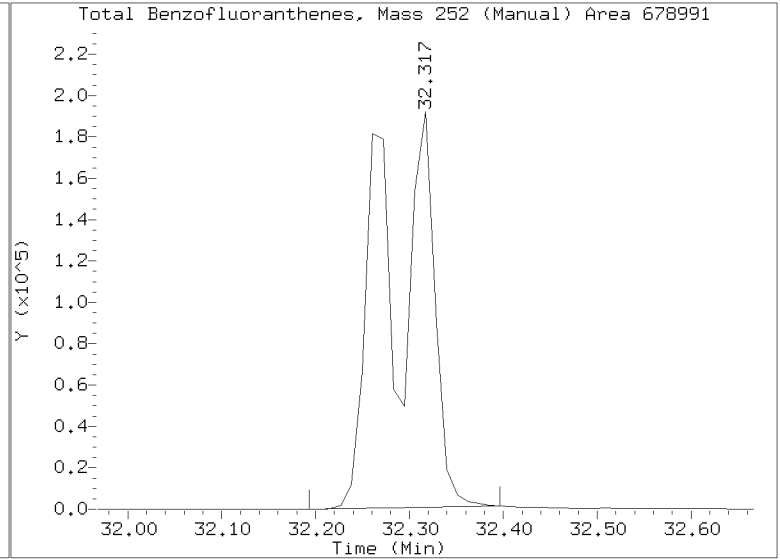
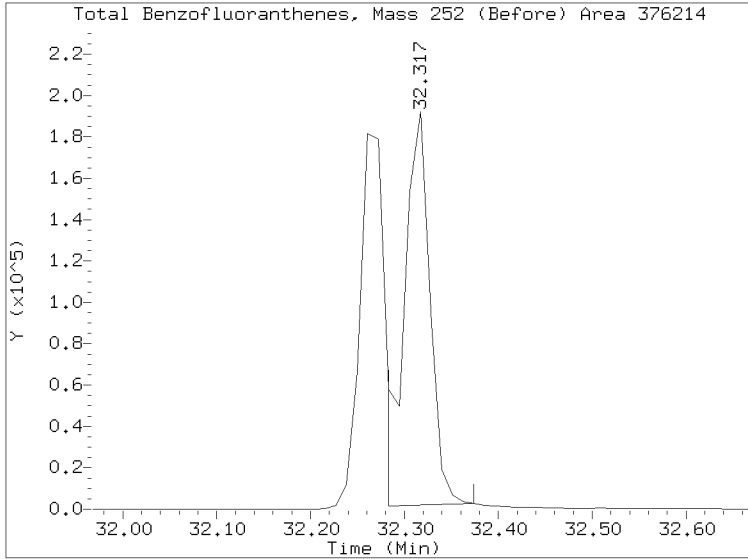
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100709.D
Injection Date: 07-OCT-2020 16:45
Lab ID:SIJ0085-SCV1 Client ID:
Report Date: 10/09/2020 08:51



Data File: \\target\share\chem3\nt14.1\20201007.6\NT1420100710.D

Date : 07-OCT-2020 17:33

Client ID:

Sample Info: S1J0085-ICB1

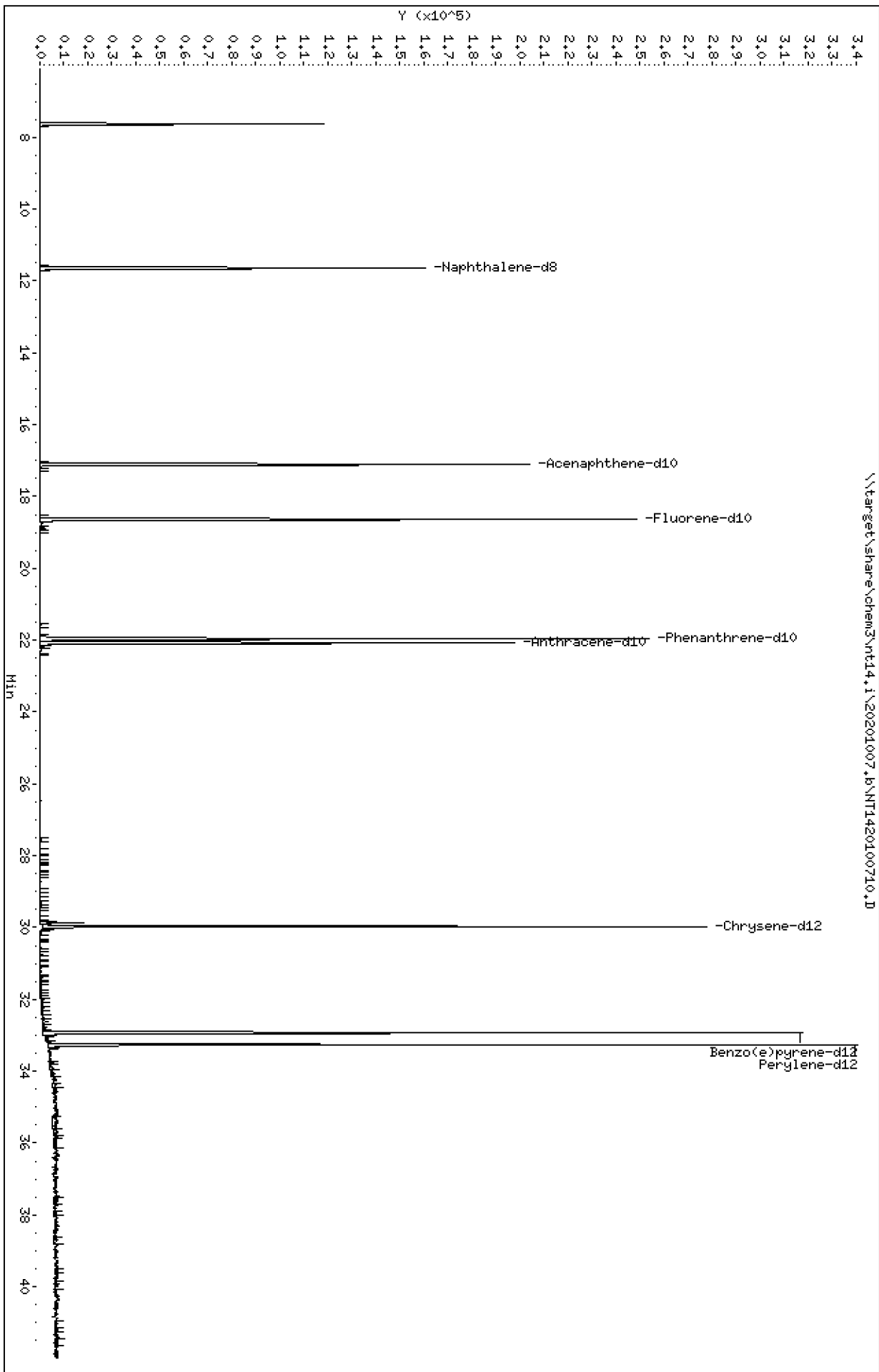
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100710.D
 Lab Smp Id: SIJ0085-ICB1
 Inj Date : 07-OCT-2020 17:33
 Operator : VTS
 Smp Info : SIJ0085-ICB1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138							
2 cis-Decalin	138							
\$ 6 Naphthalene-d8	136		11.641	11.641	(0.625)	224827	2.62926	2.629(R)
7 Naphthalene	128							
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141							
17 1-methylnaphthalene	141							
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152							
\$ 21 Acenaphthene-d10	164		17.103	17.103	(0.918)	126563	2.46483	2.465(R)
22 Acenaphthene	153							
23 Dibenzofuran	168							
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	209569	2.00000	
26 Fluorene	166							
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188		21.963	21.963	(0.995)	257418	2.75596	2.756(R)
36 Phenanthrene	178							
* 250 Anthracene-d10	188		22.073	22.072	(1.000)	195015	2.00000	
37 Anthracene	178							
42 Carbazole	167							
43 1-Methylphenanthrene	192							
44 Fluoranthene	202							
46 Pyrene	202							
51 Naphthobenzothiophene	234							
55 Benzo(a)anthracene	228							
\$ 56 Chrysene-d12	240		29.974	29.974	(0.910)	248251	2.64721	2.647(R)
57 Chrysene	228							
62 Benzo(b)fluoranthene	252							
63 Benzo(k)fluoranthene	252							
293 Benzo(j)fluoranthene	252							
246 Total Benzofluoranthenes	252							

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
* 251 Benzo(e)pyrene-d12	264		32.925	32.925	(1.000)	275049	2.00000	
64 Benzo(e)pyrene	252		Compound Not Detected.					
66 Benzo(a)pyrene	252		Compound Not Detected.					
\$ 67 Perylene-d12	264		33.263	33.263	(1.010)	293187	2.57786	2.578 (R)
68 Perylene	252		Compound Not Detected.					
69 Indeno(1,2,3-cd)pyrene	276		Compound Not Detected.					
70 Dibenzo(a,h)anthracene	278		Compound Not Detected.					
74 Benzo(g,h,i)perylene	276		Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
Lab File ID: NT1420100710.D Calibration Time: 18:22
Lab Smp Id: SIJ0085-ICB1
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	209569	-0.01
250 Anthracene-d10	192407	96204	384814	195015	1.36
251 Benzo(e)pyrene-d1	274120	137060	548240	275049	0.34

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100710.D

Lab ID: SIJ0085-ICB1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 17:33

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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



SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DJ00029

Laboratory ID: SIJ0085-SCV1

Sequence: SIJ0085

Sequence Name: Secondary Cal Check

Standard ID: I009393

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.8	10.3	20.00
1-Methylnaphthalene	2.5000	2.8	13.4	20.00
2-Methylnaphthalene	2.5000	2.8	12.3	20.00
Acenaphthylene	2.5000	2.9	15.0	20.00
Acenaphthene	2.5000	2.7	8.6	20.00
Dibenzofuran	2.5000	3.1	23.6 *	20.00
Fluorene	2.5000	3.0	18.7	20.00
Phenanthrene	2.5000	2.5	-1.8	20.00
Anthracene	2.5000	2.4	-4.6	20.00
Carbazole	2.5000	2.4	-5.8	20.00
Fluoranthene	2.5000	2.4	-2.6	20.00
Pyrene	2.5000	2.5	-0.1	20.00
Benzo(a)anthracene	2.5000	2.6	3.3	20.00
Chrysene	2.5000	2.5	0.6	20.00
Benzo(b)fluoranthene	2.5000	2.4	-4.5	
Benzo(k)fluoranthene	2.5000	2.7	6.2	
Benzofluoranthenes, Total	5.0000	5.2	4.1	
Benzo(a)pyrene	2.5000	2.6	4.7	20.00
Indeno(1,2,3-cd)pyrene	2.5000	2.6	5.0	20.00
Dibenzo(a,h)anthracene	2.5000	2.5	0.7	20.00
Benzo(g,h,i)perylene	2.5000	2.3	-6.9	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20201007.16\NT1420100709.D

Date : 07-OCT-2020 16:45

Client ID:

Sample Info: S100085-SCV1

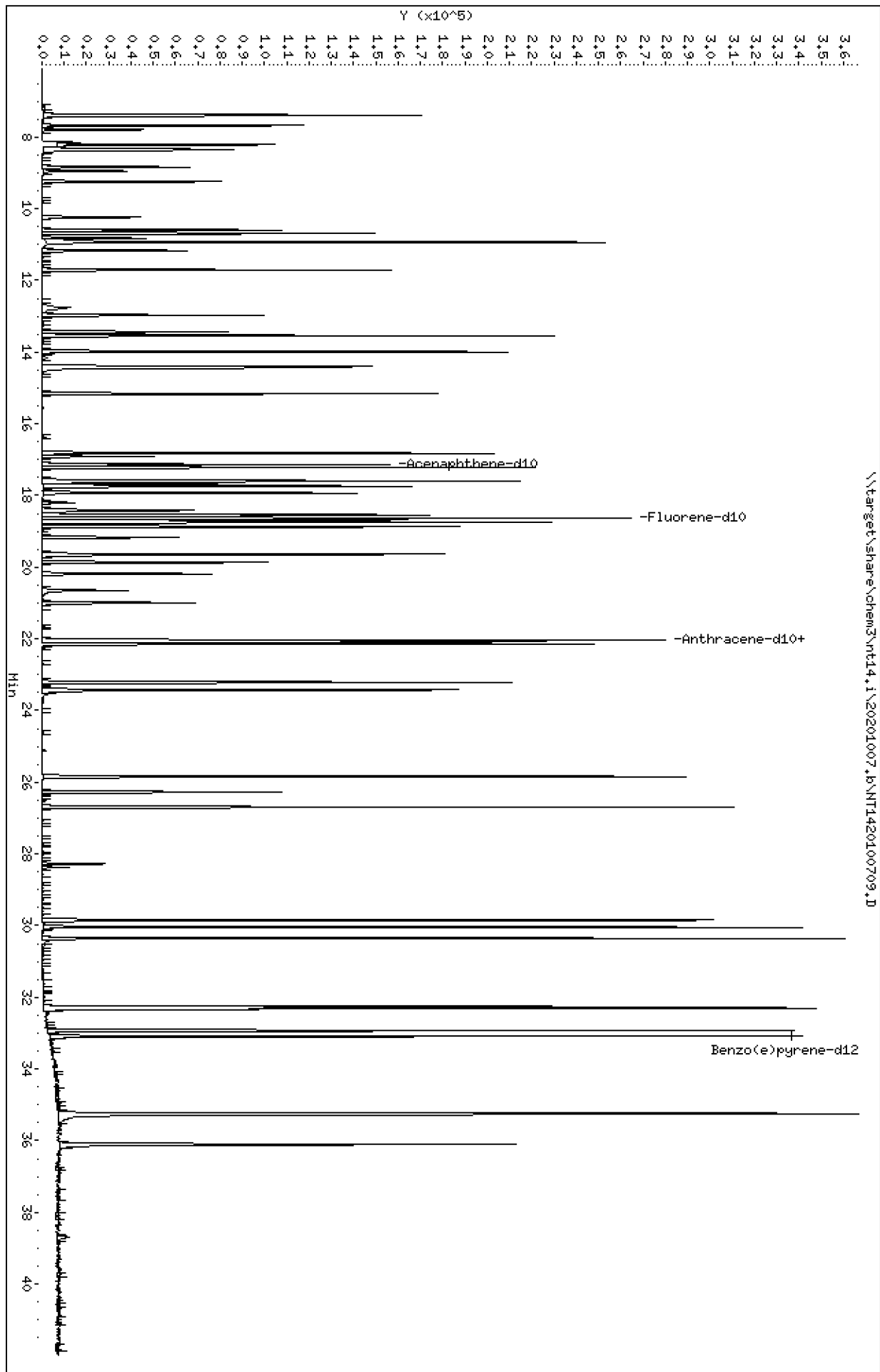
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201007.16\NT1420100709.D



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

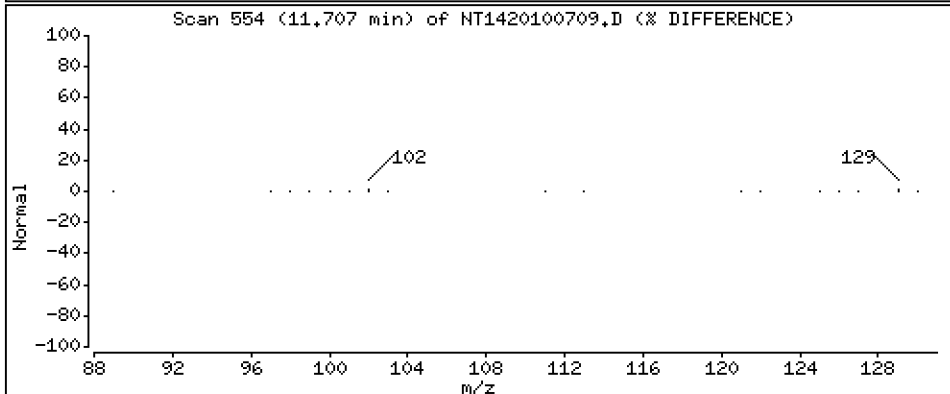
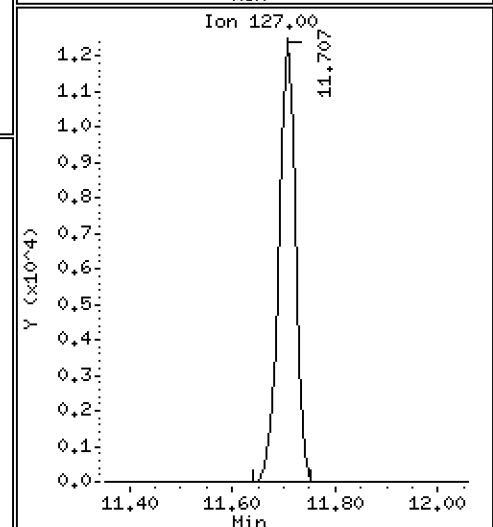
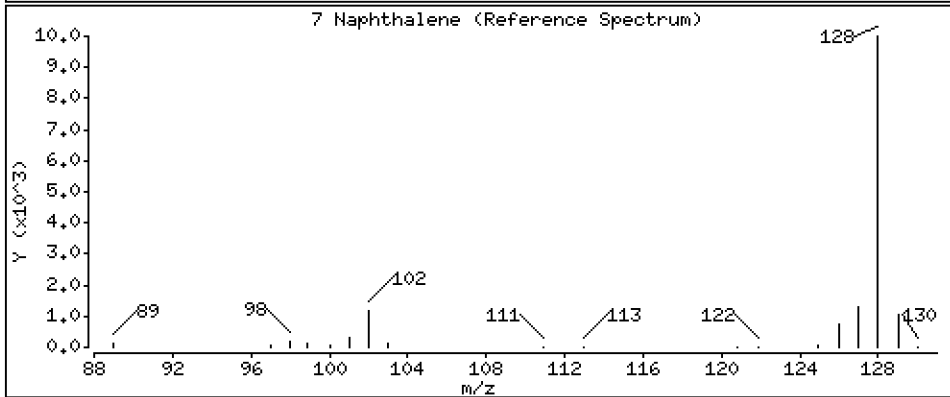
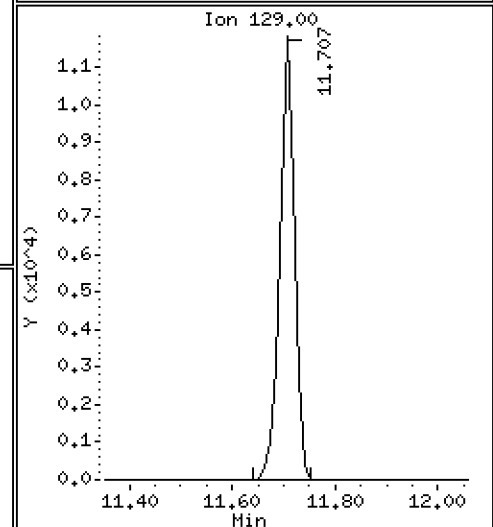
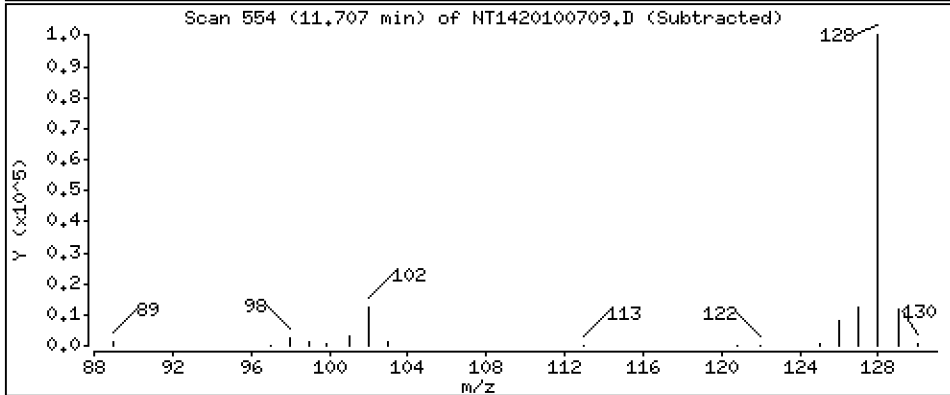
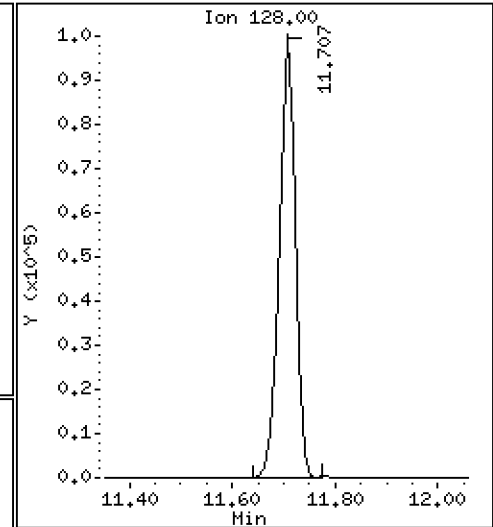
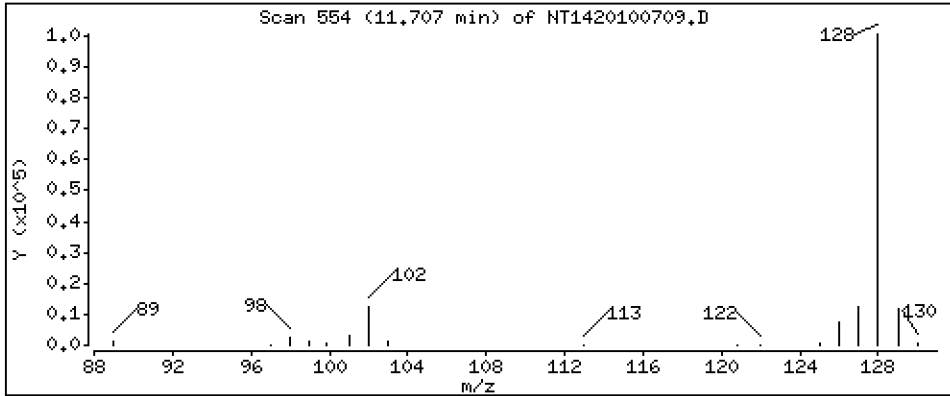
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 2,757 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

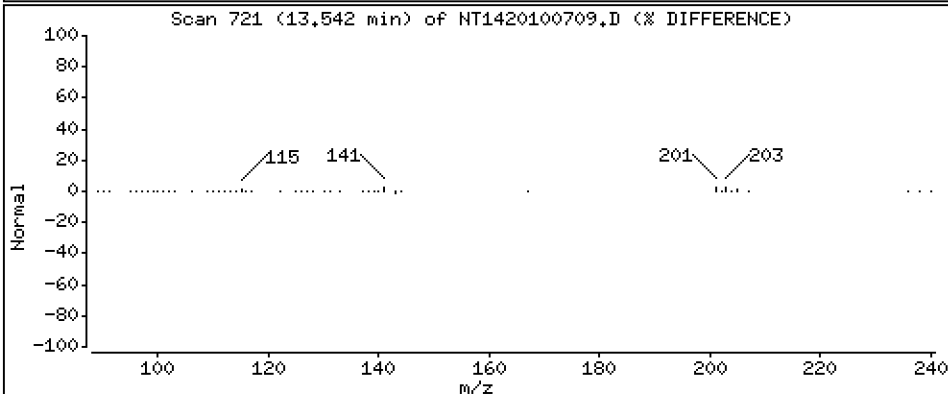
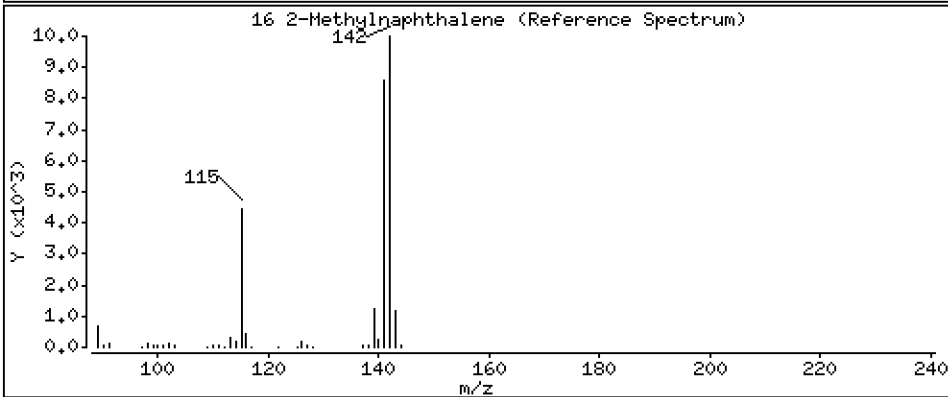
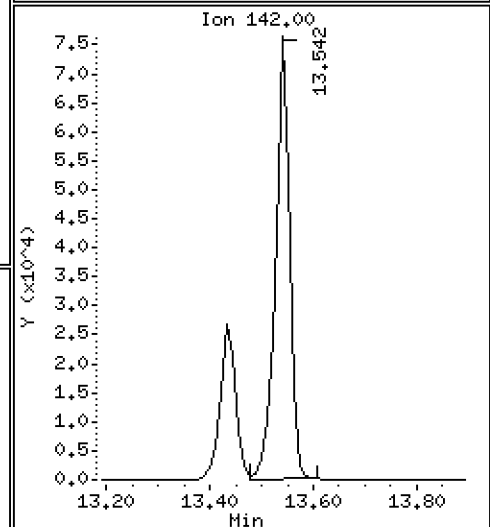
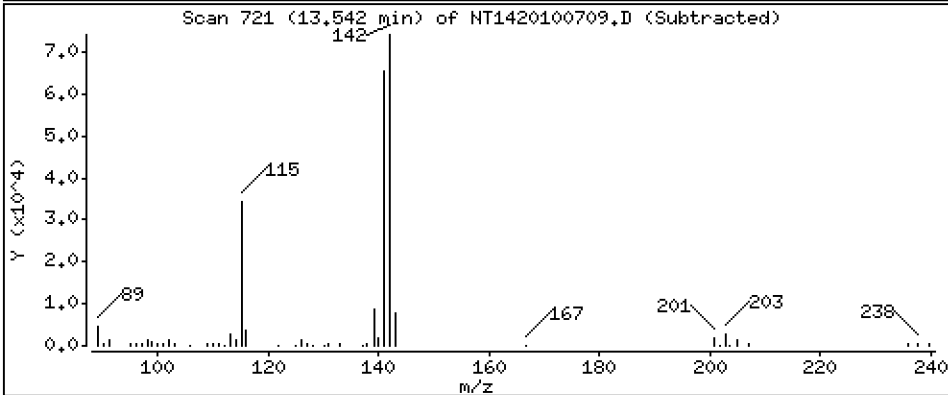
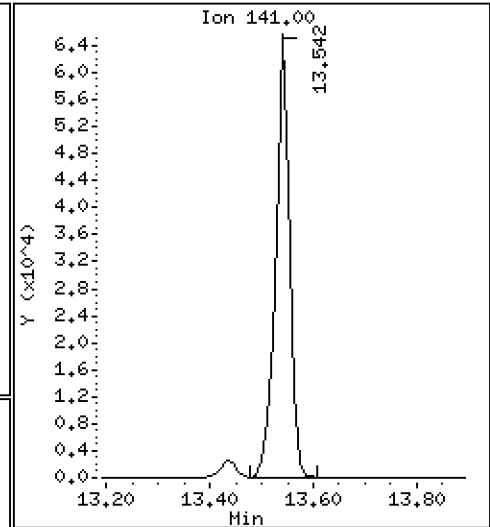
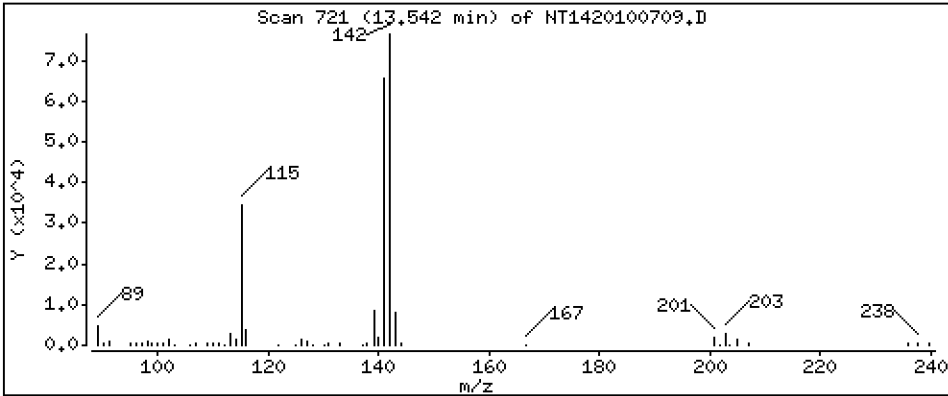
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 2,807 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

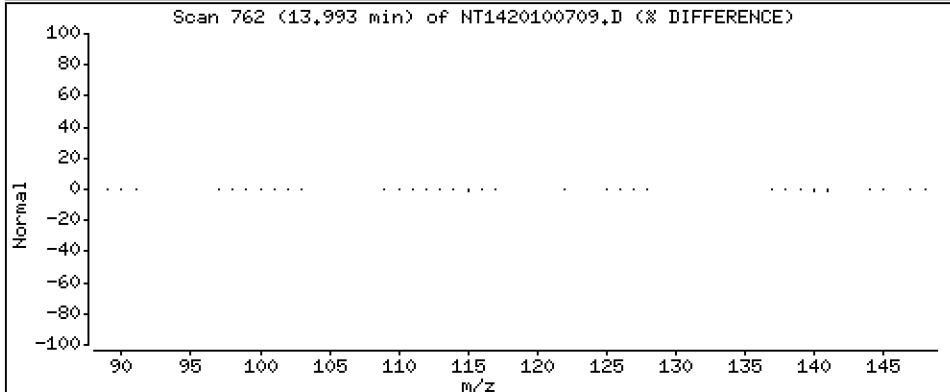
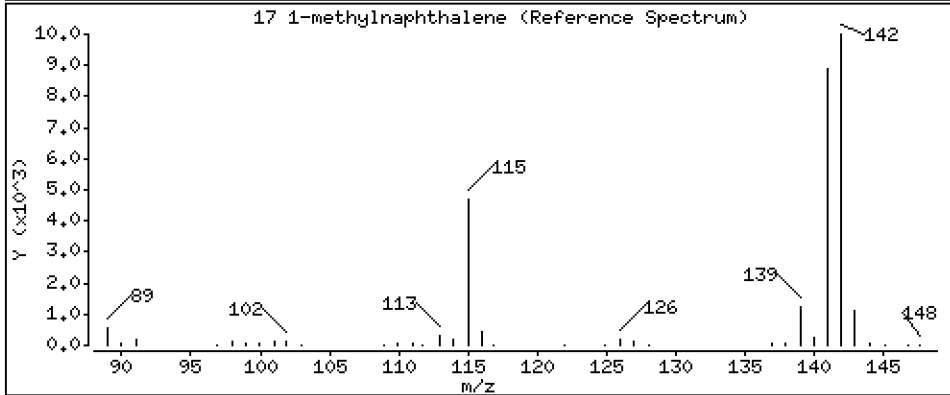
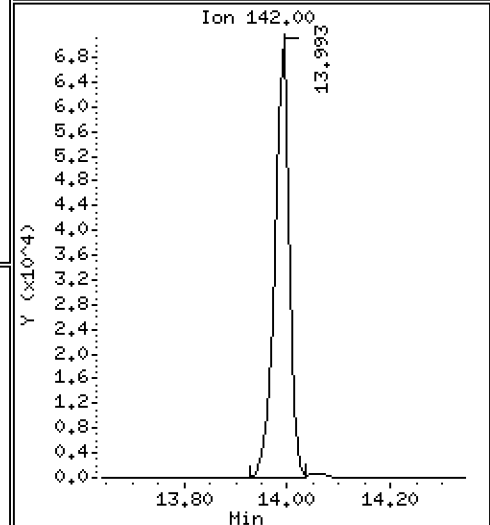
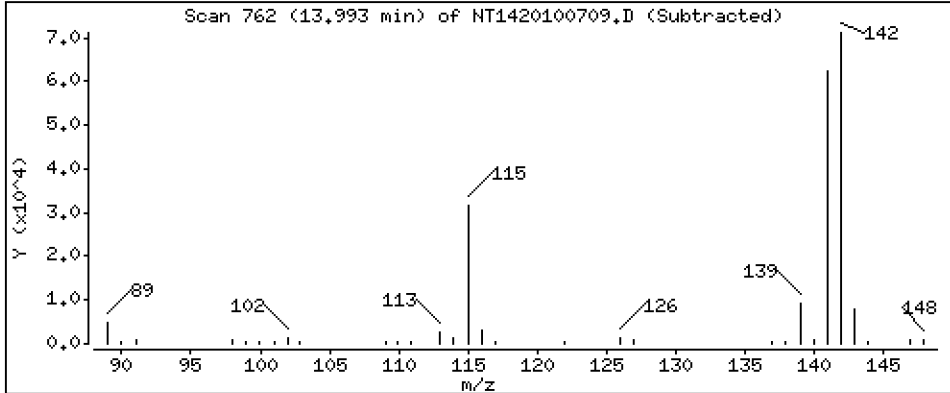
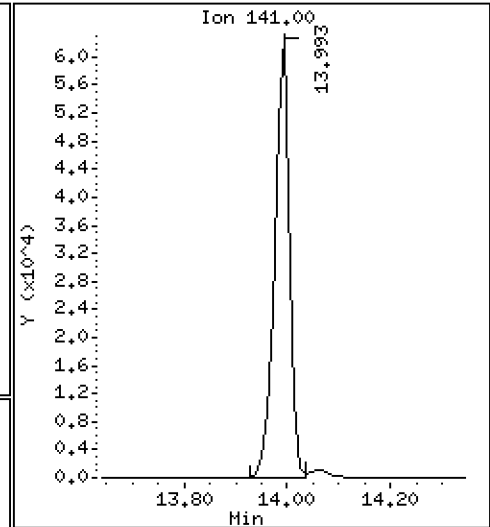
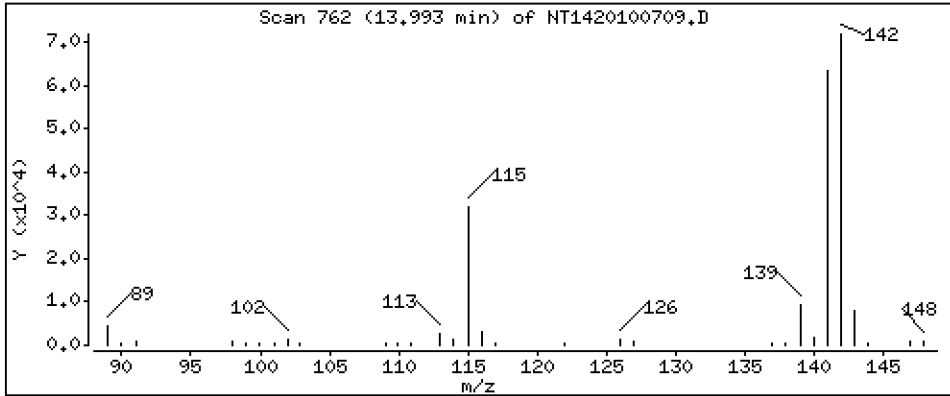
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 2,835 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

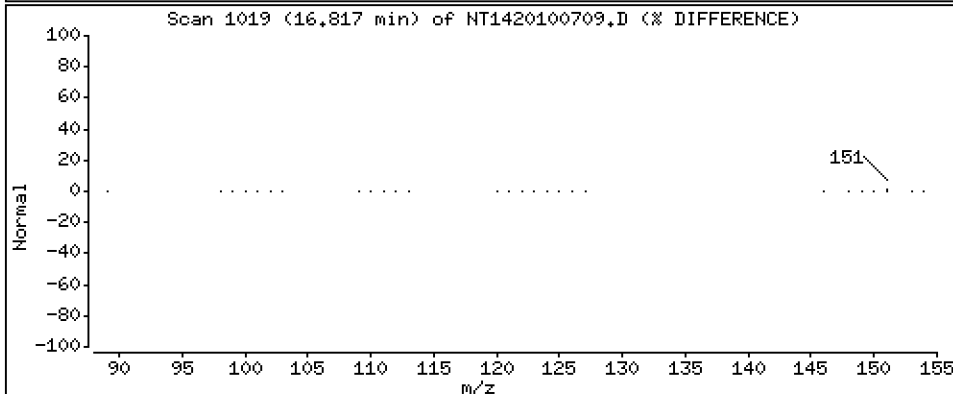
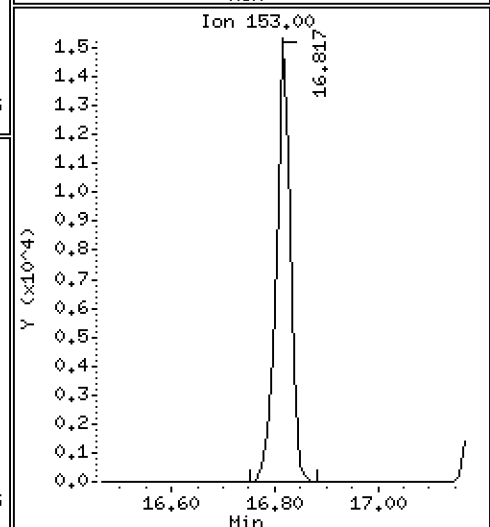
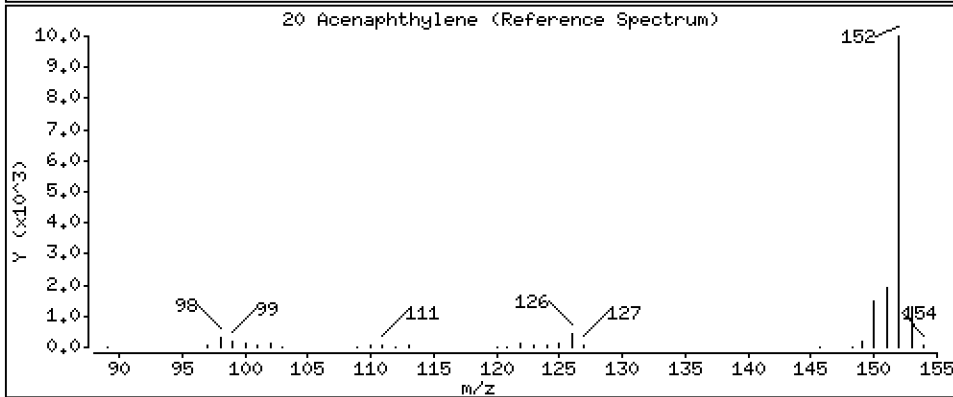
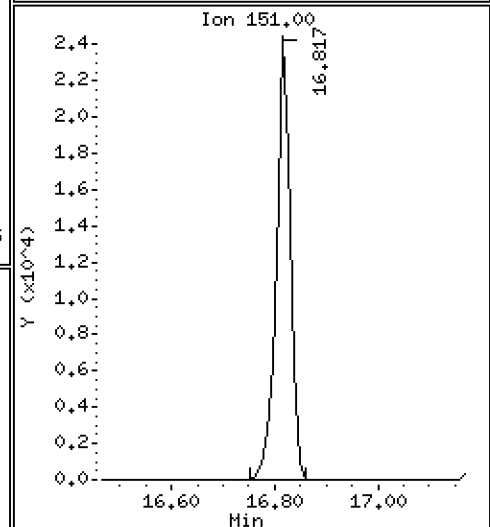
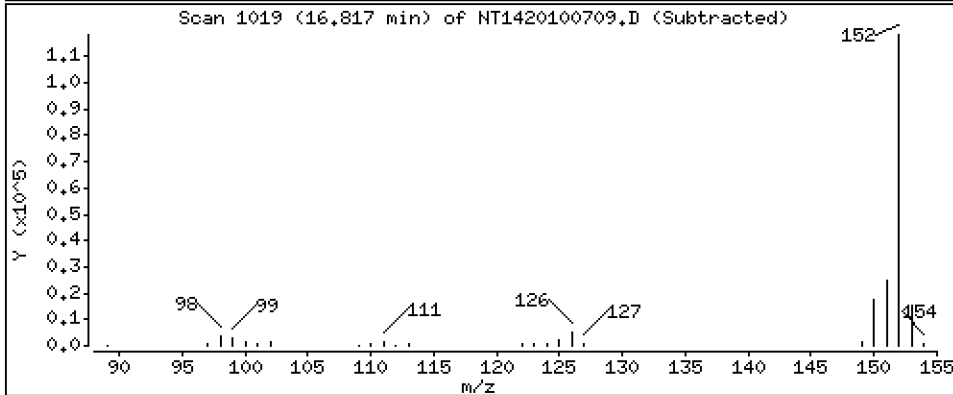
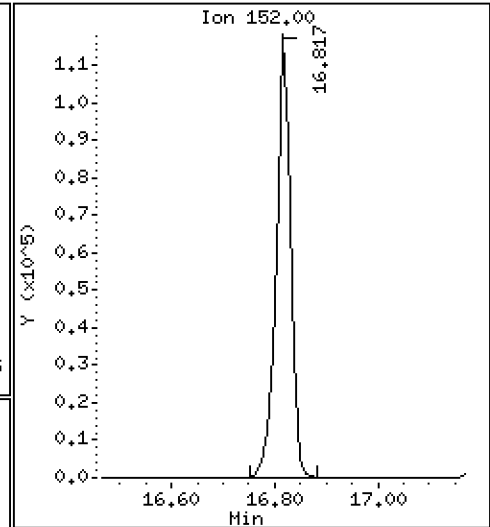
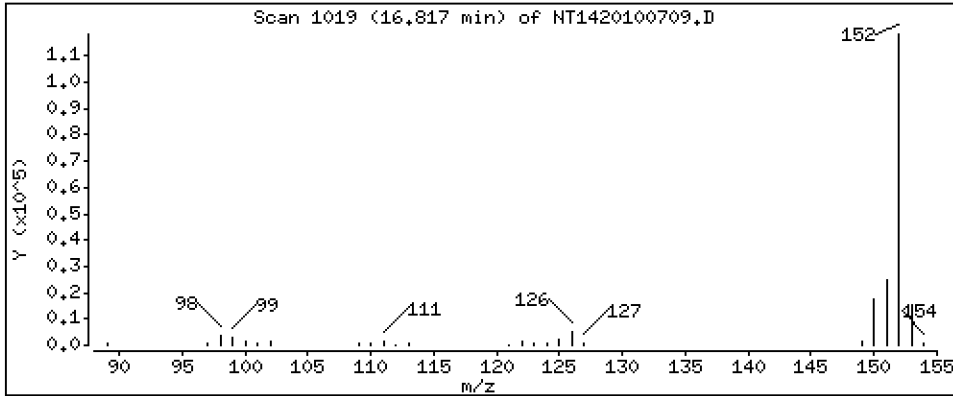
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 2,875 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

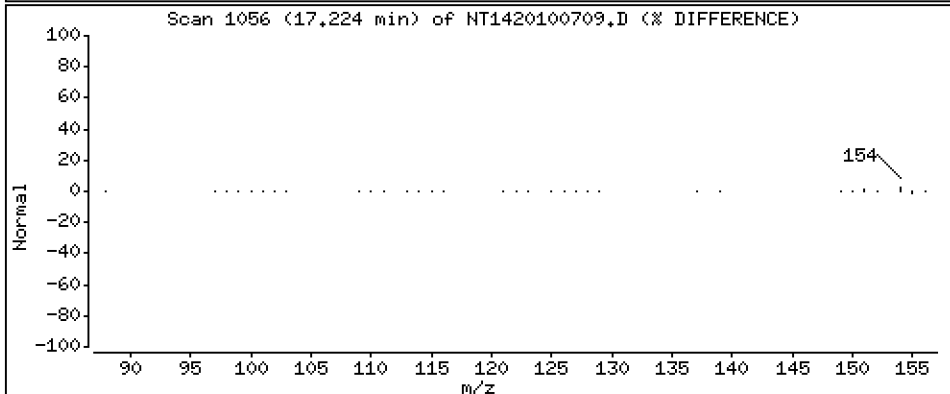
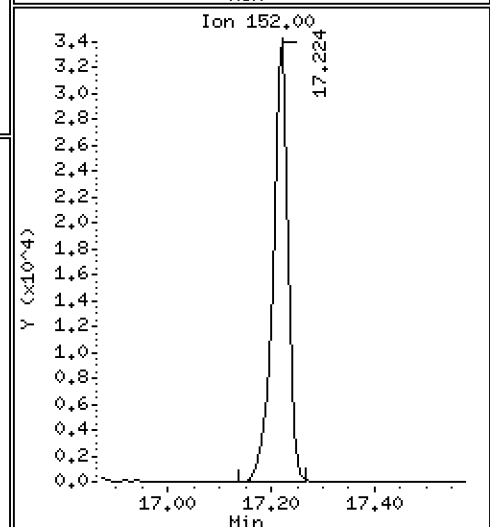
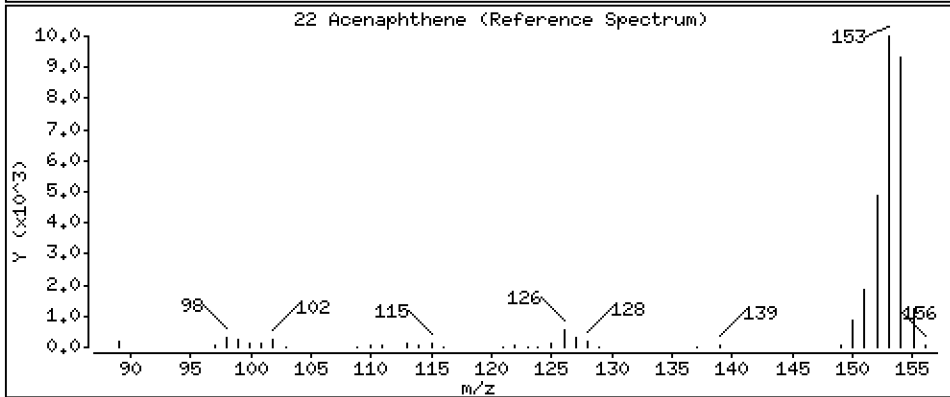
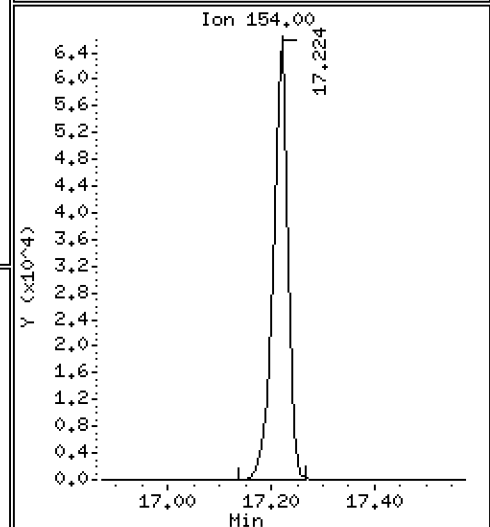
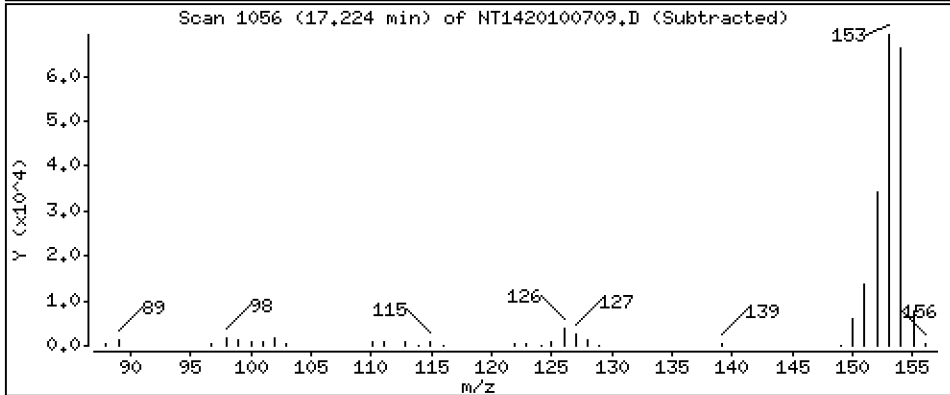
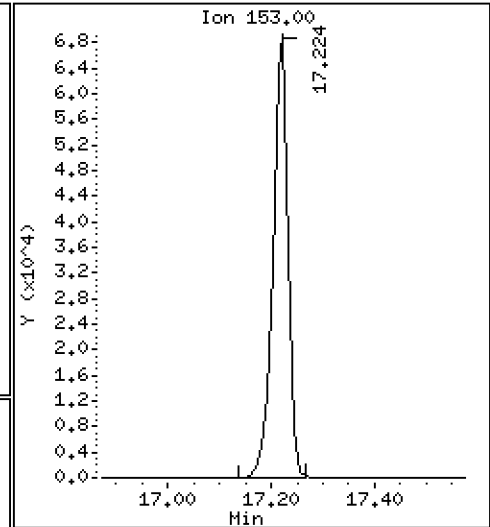
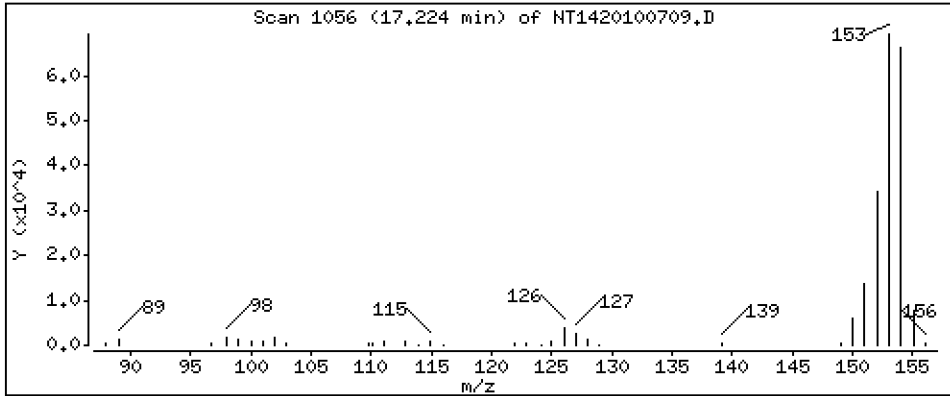
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 2,714 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

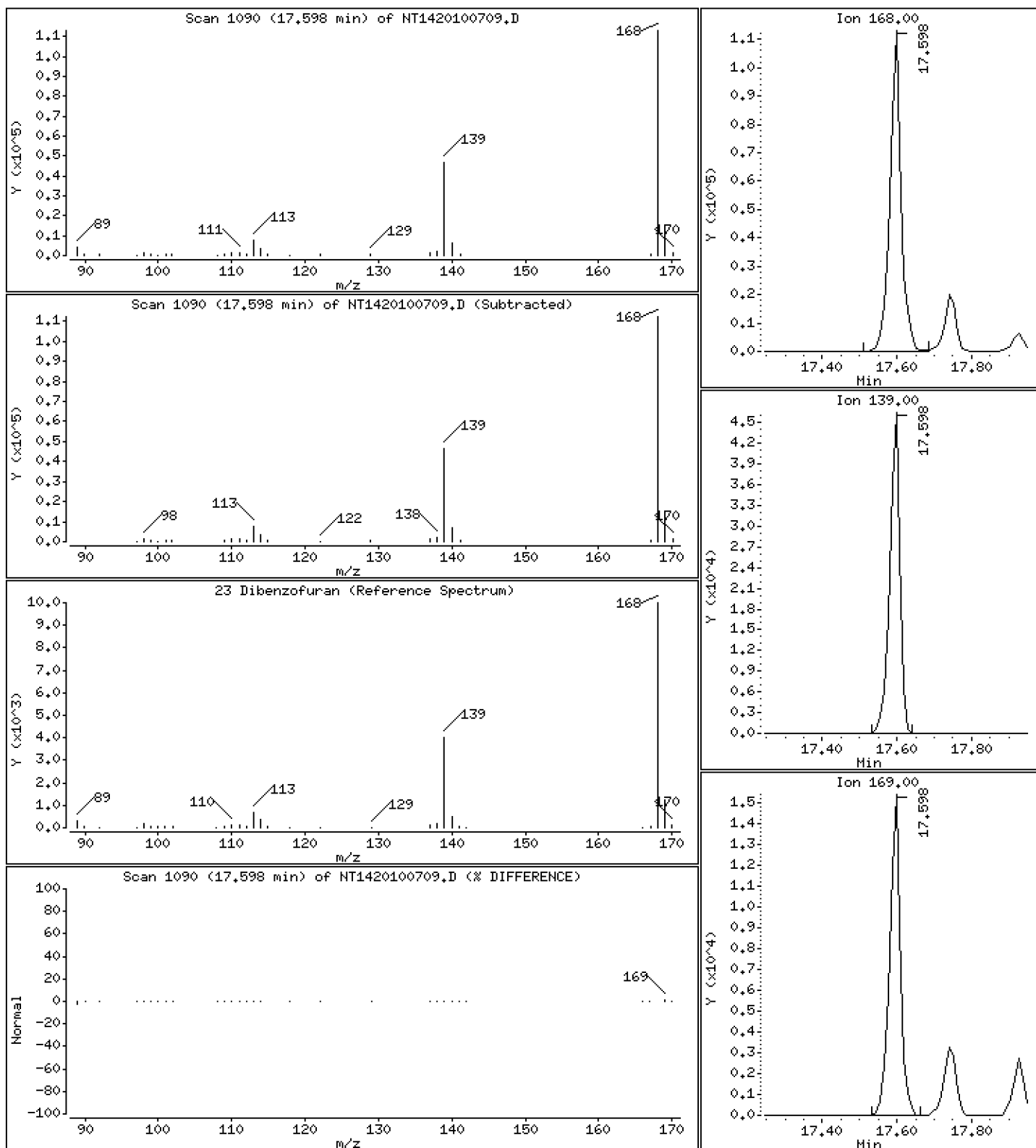
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 3,090 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

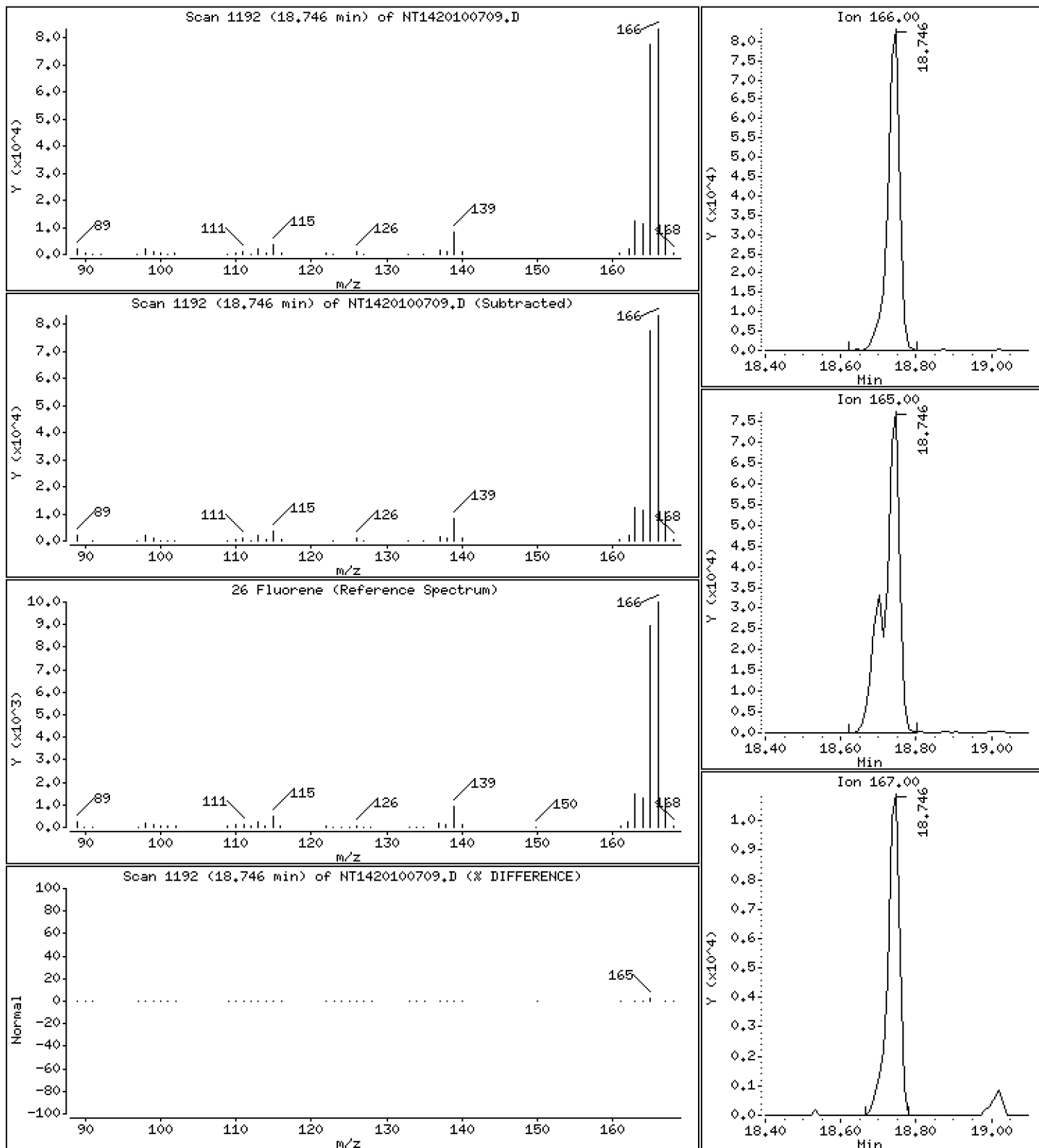
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 2,967 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

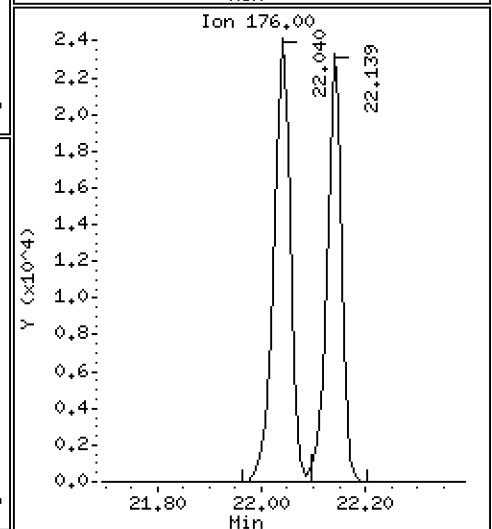
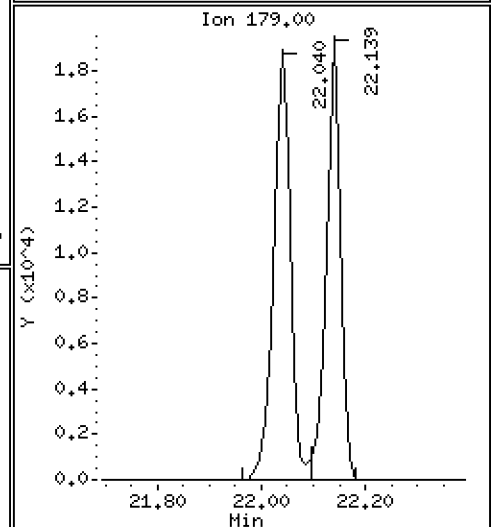
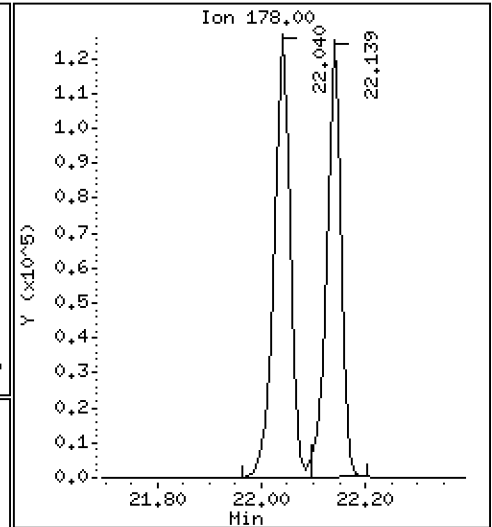
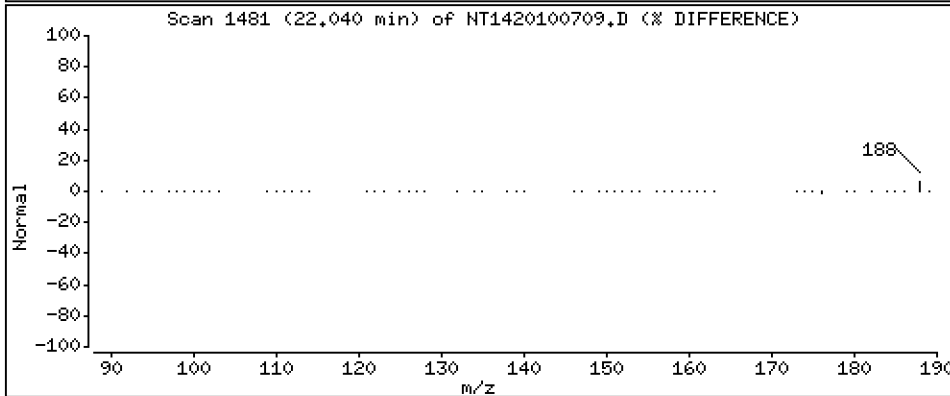
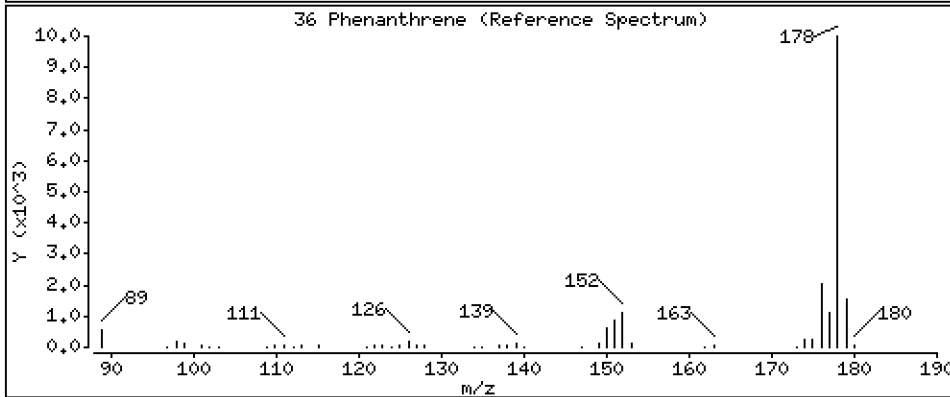
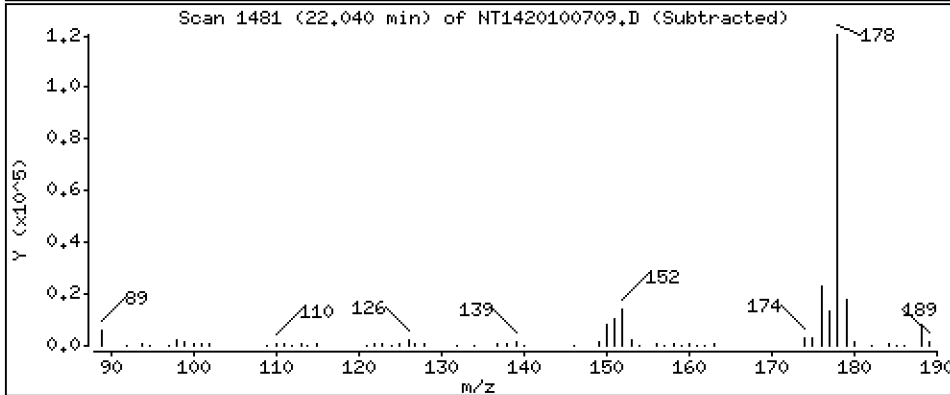
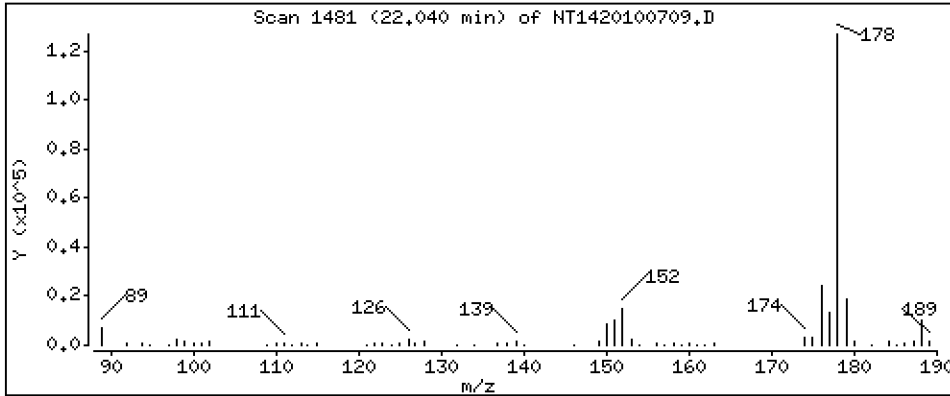
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

Concentration: 2,454 ug/mL

36 Phenanthrene



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

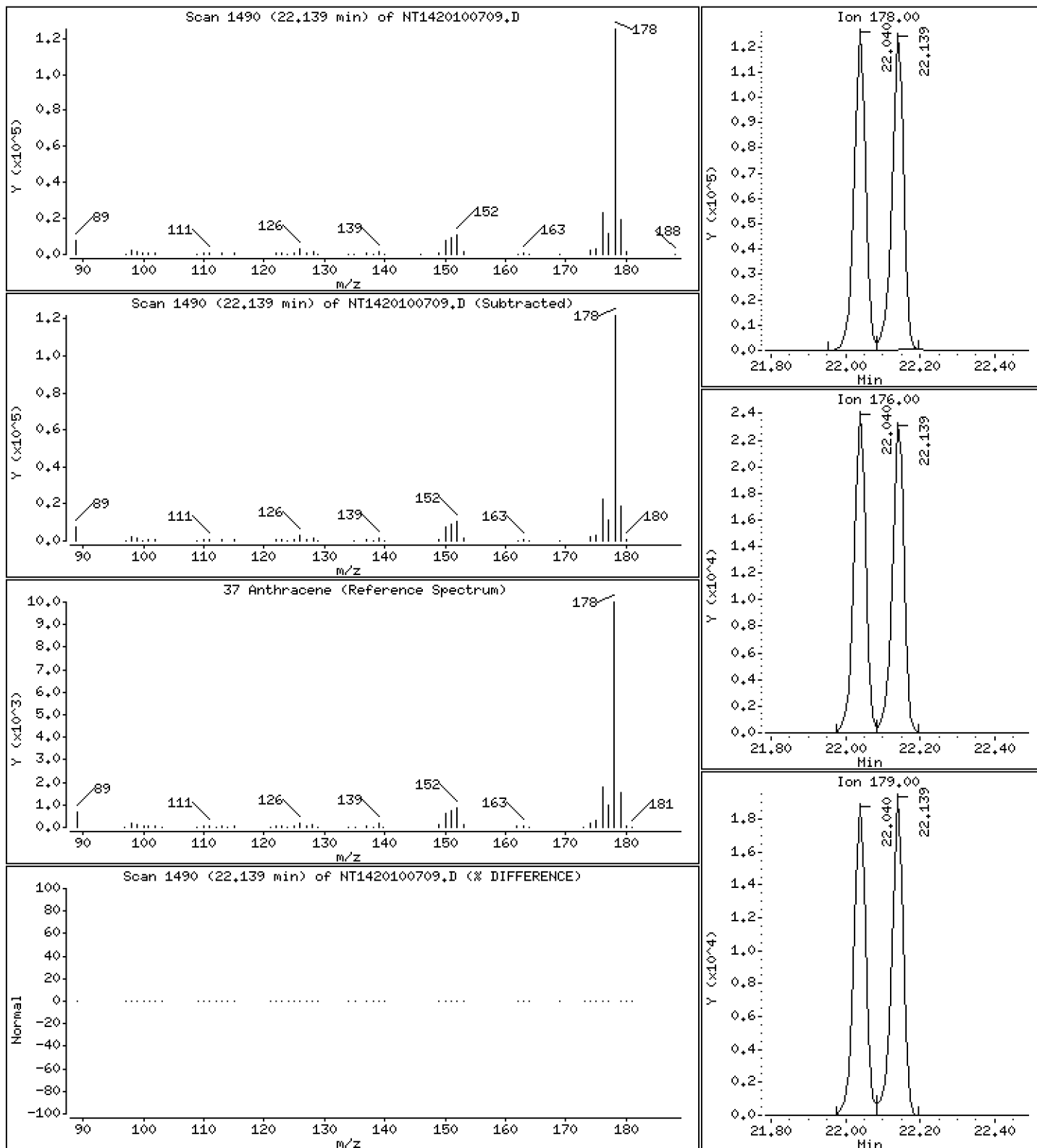
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 2,385 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

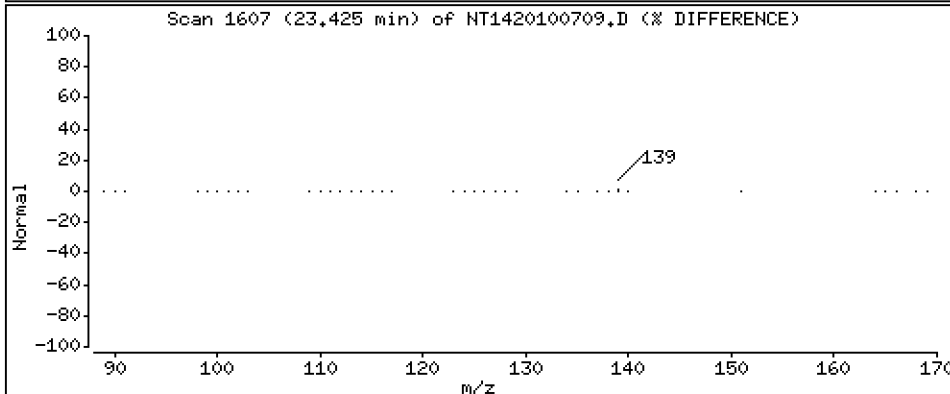
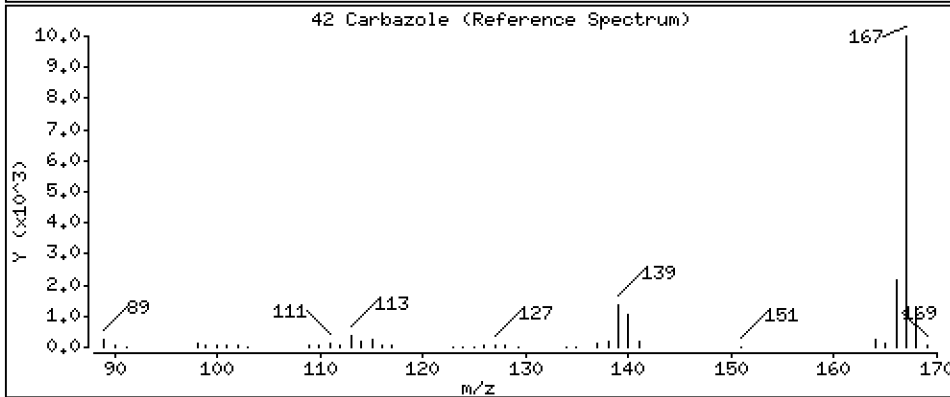
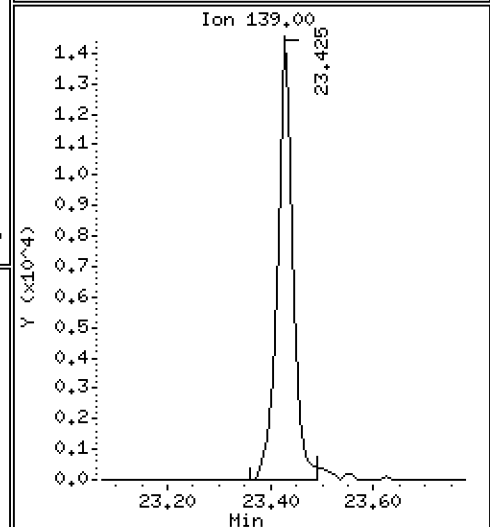
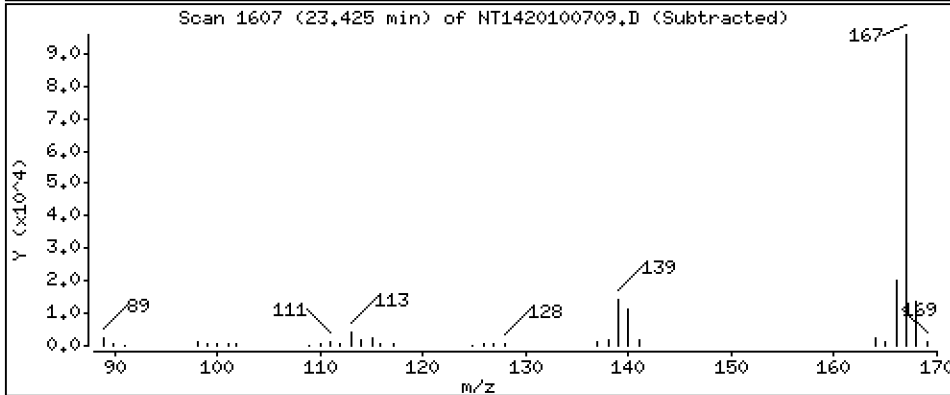
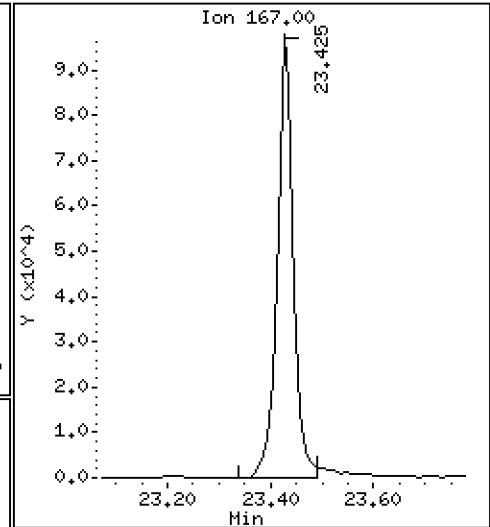
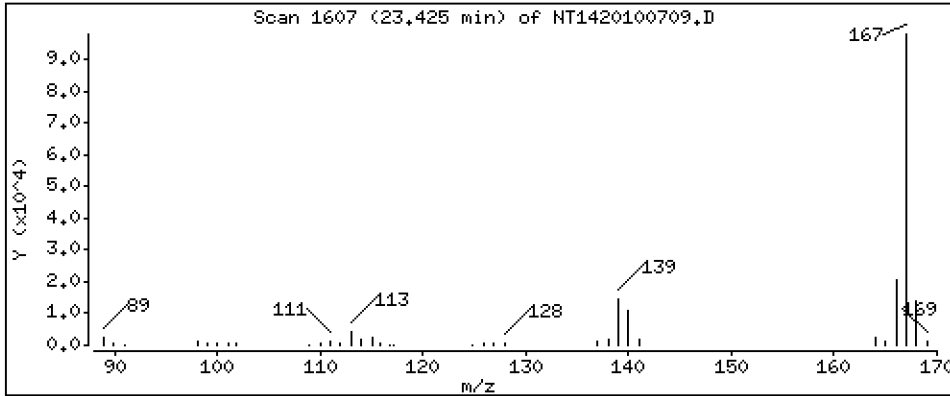
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 2,354 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

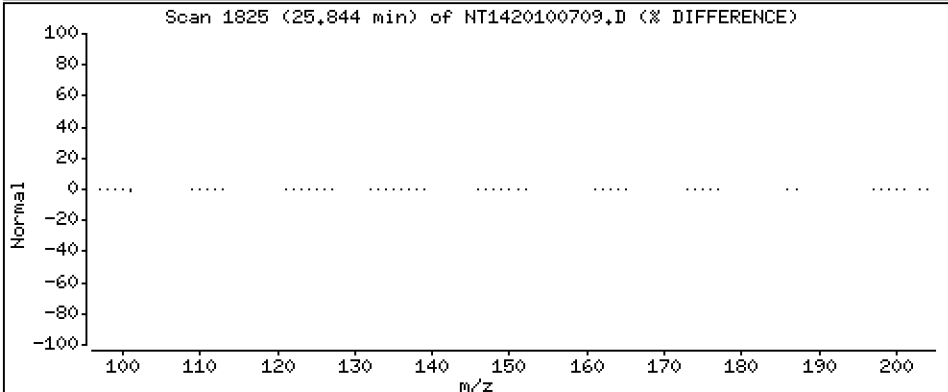
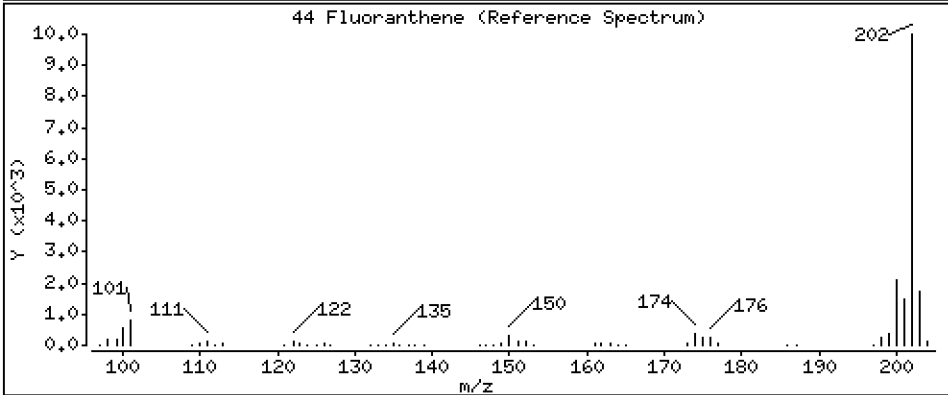
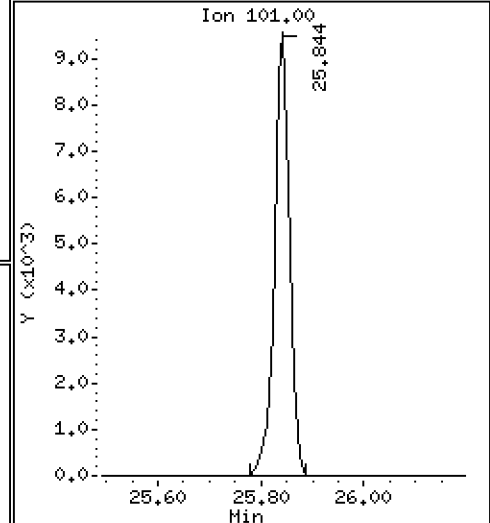
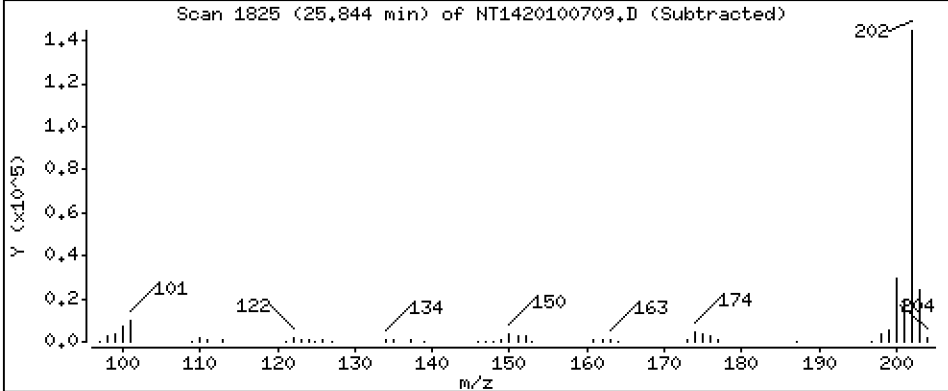
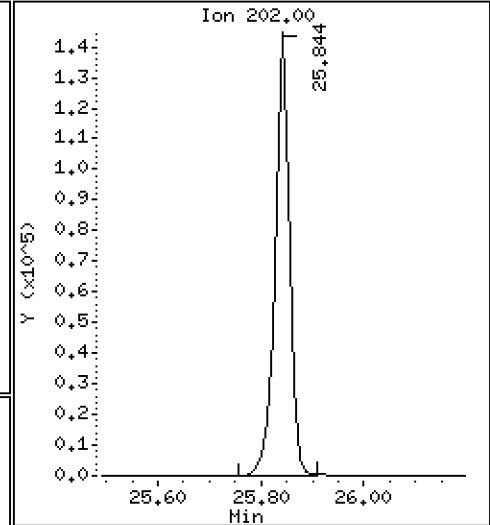
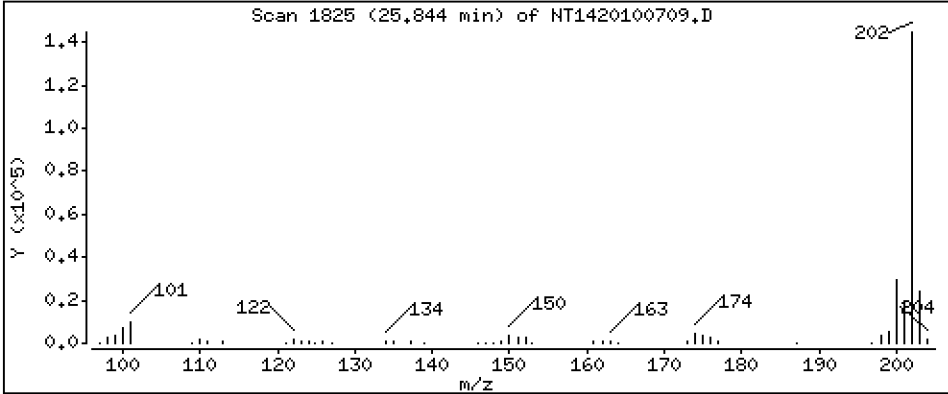
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 2,436 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

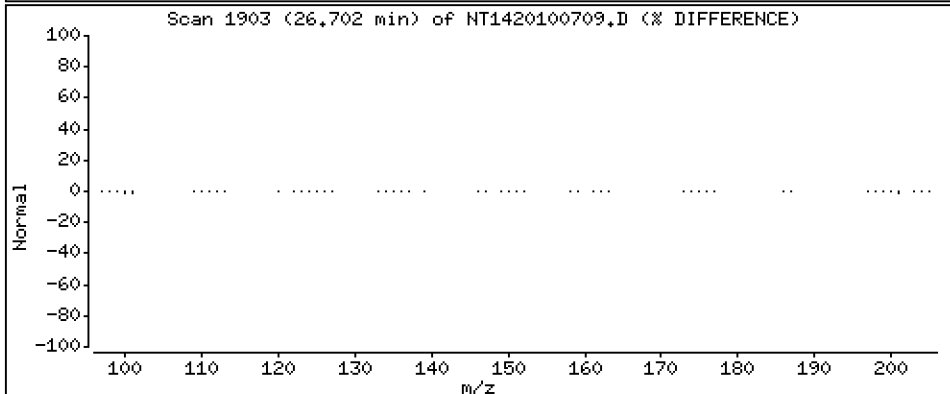
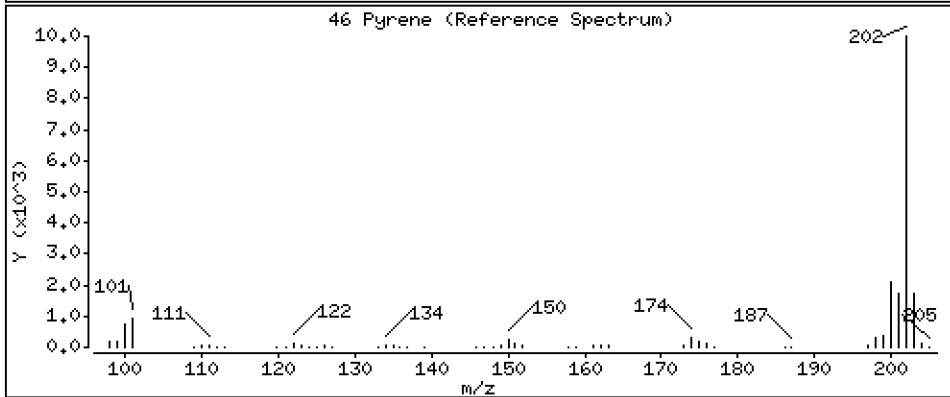
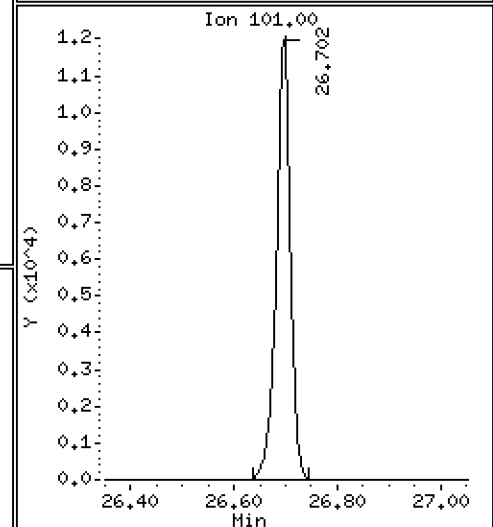
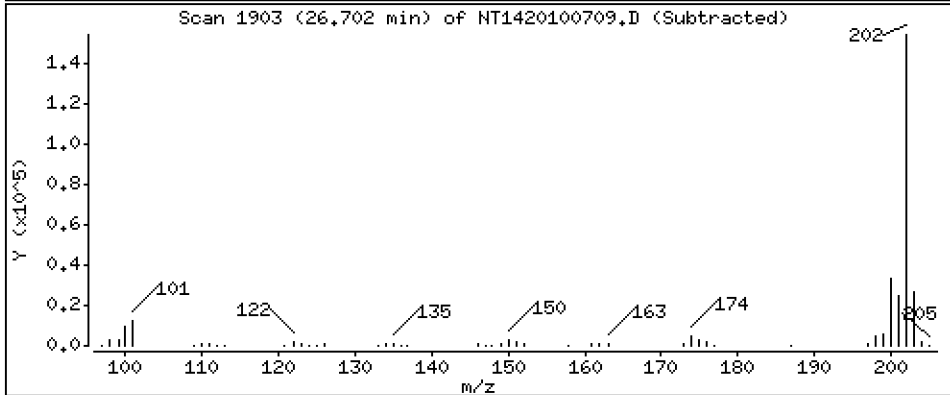
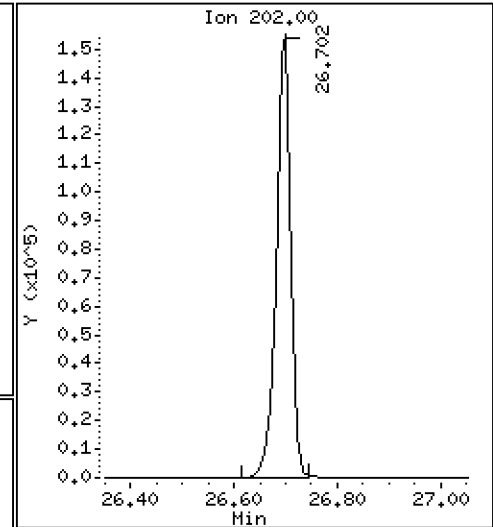
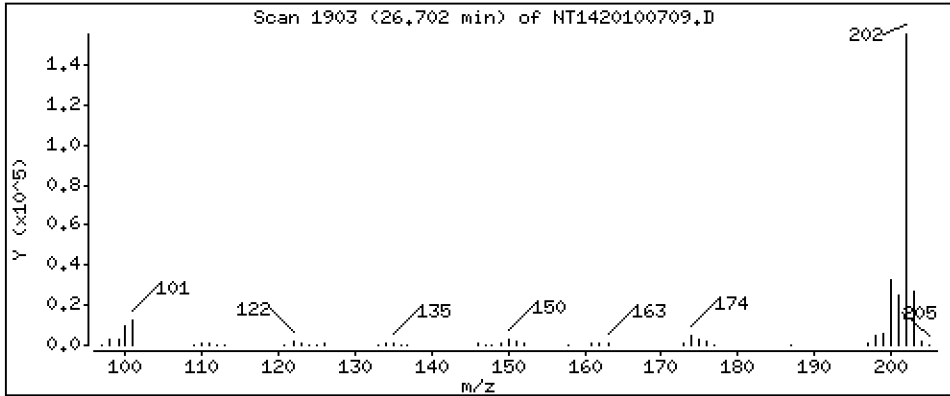
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 2,497 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

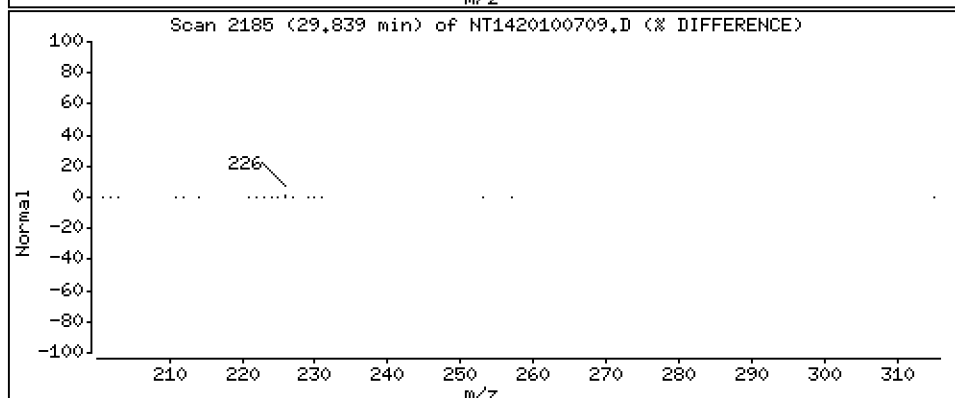
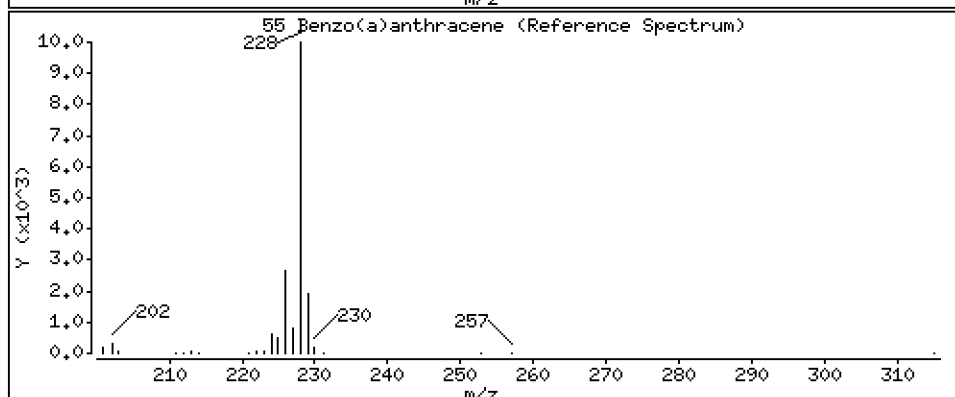
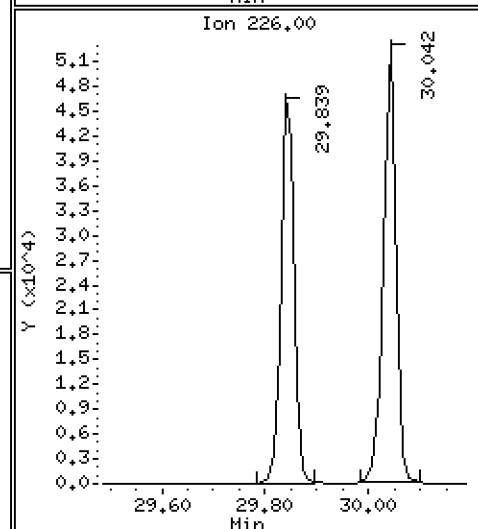
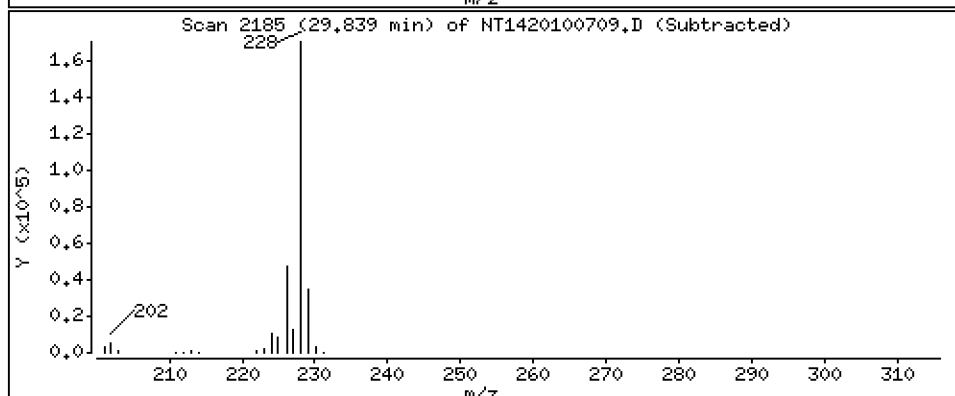
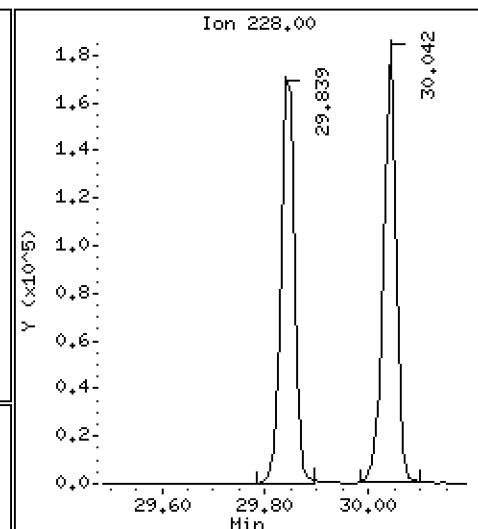
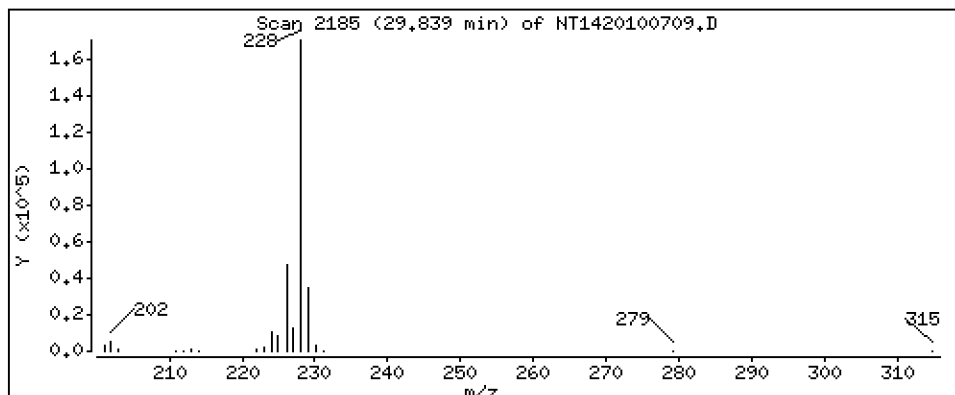
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 2,581 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

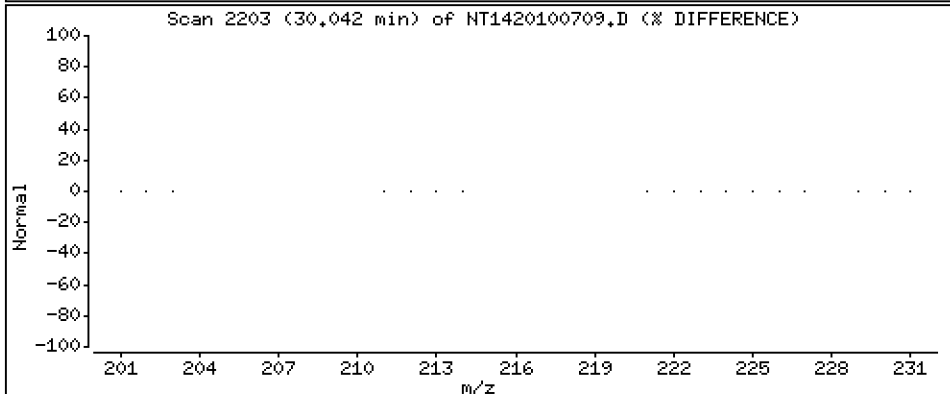
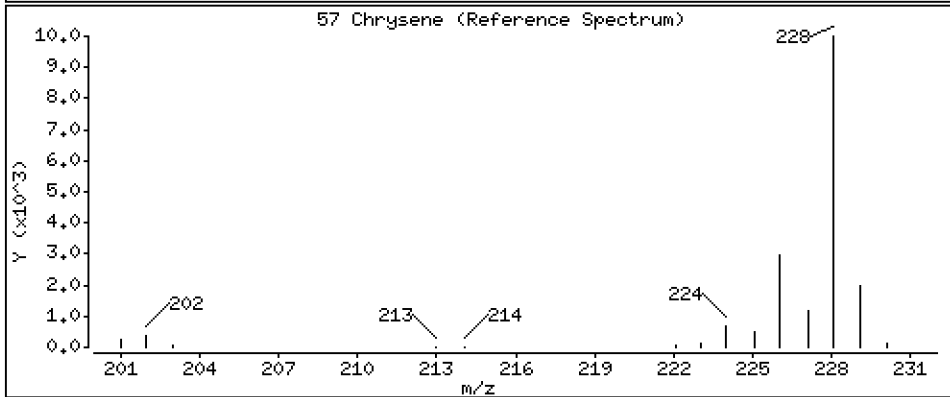
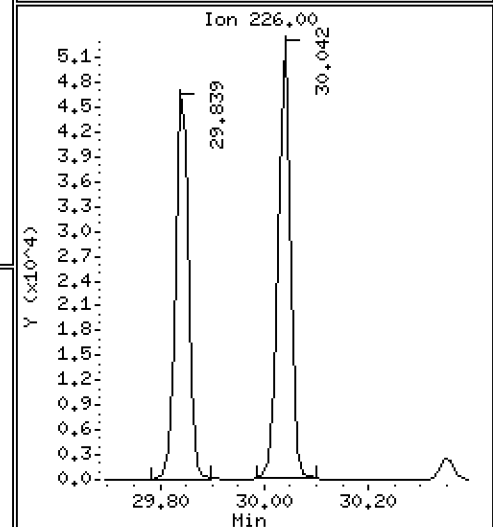
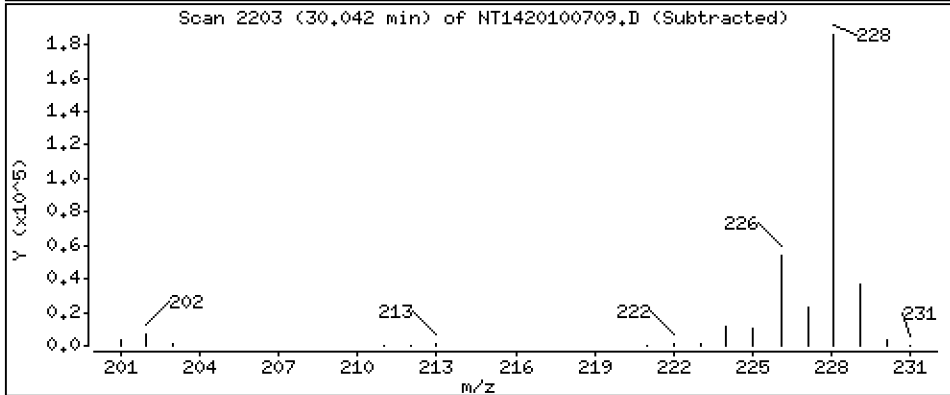
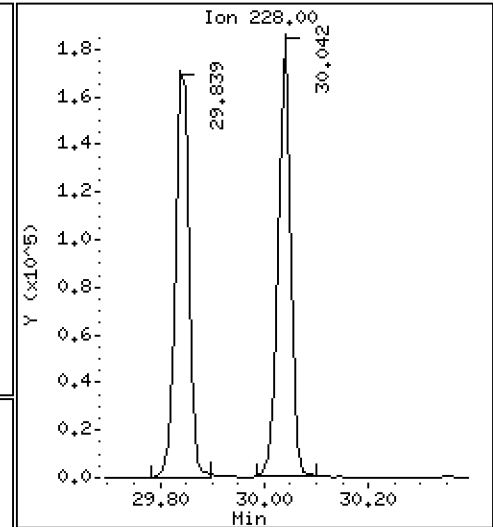
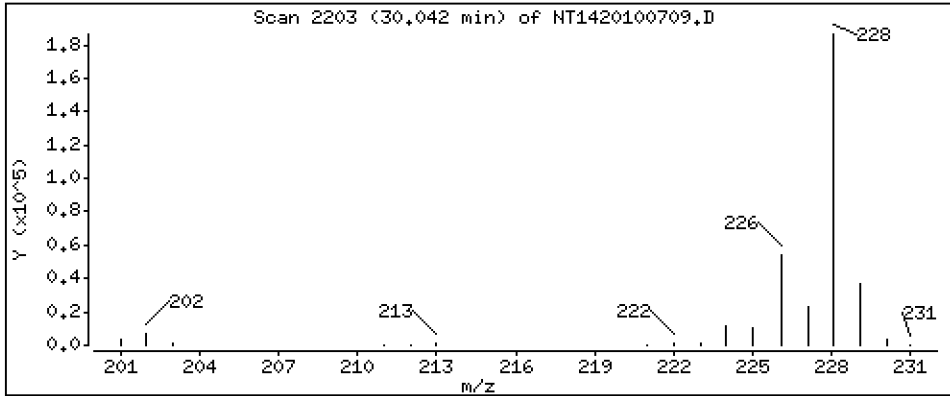
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 2,516 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

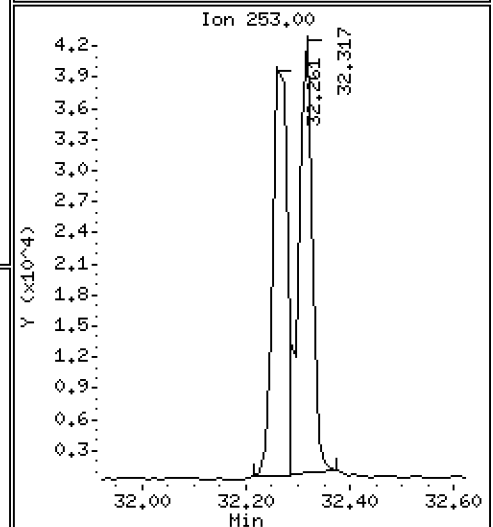
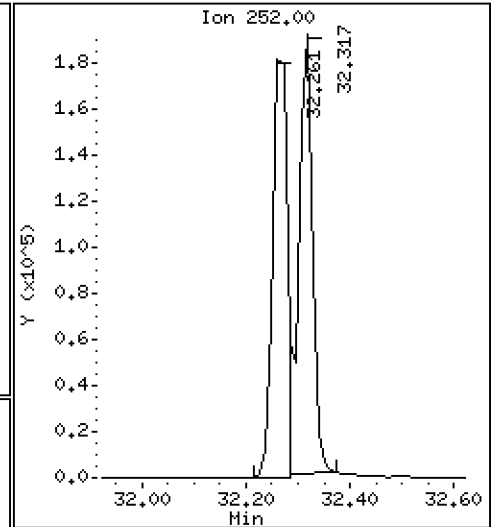
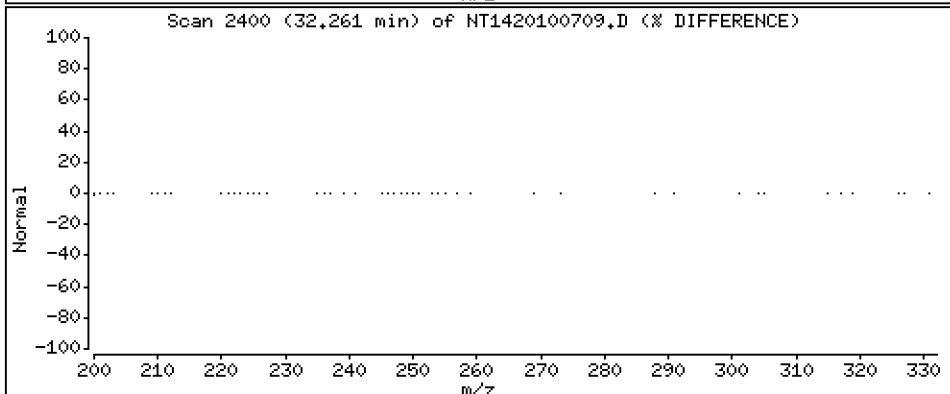
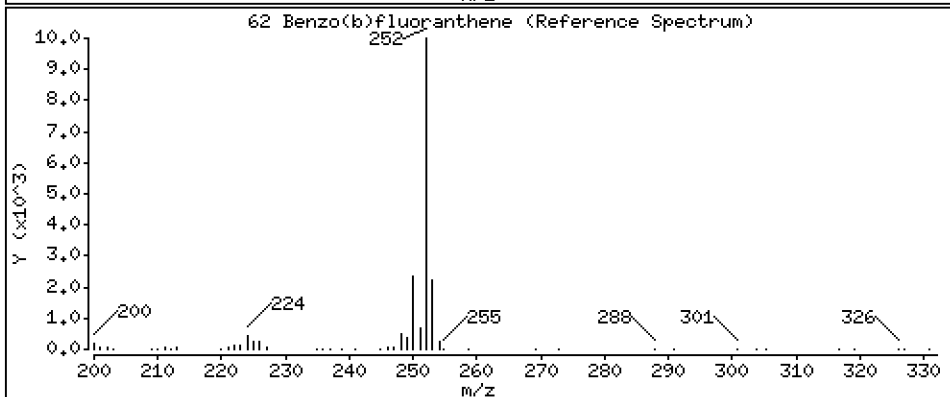
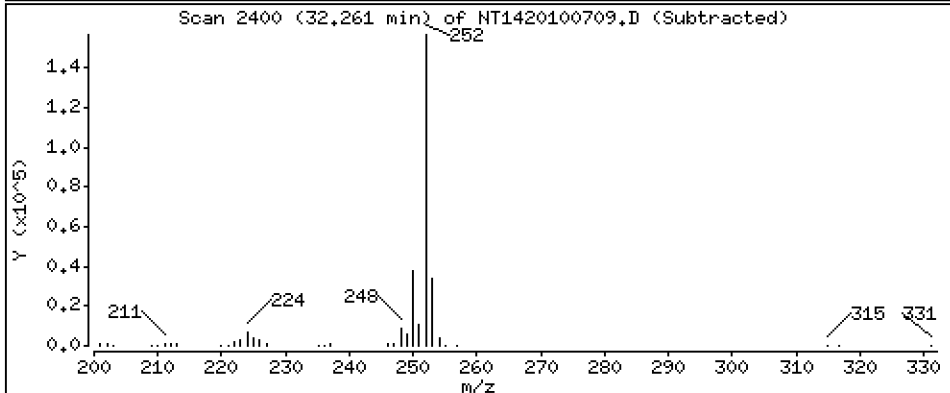
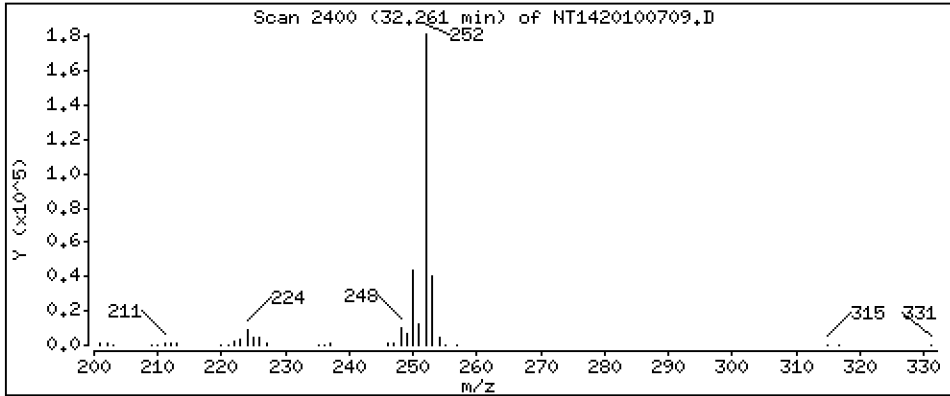
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 2,387 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

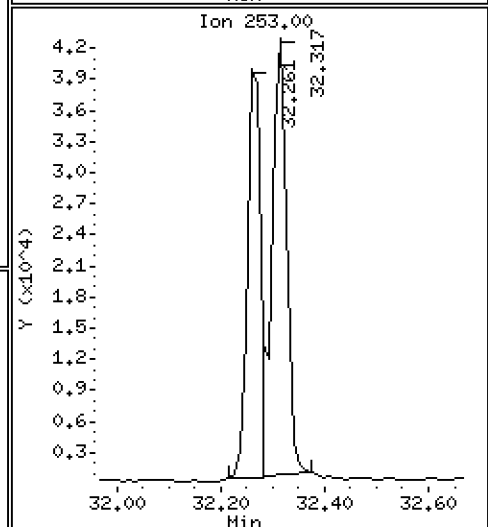
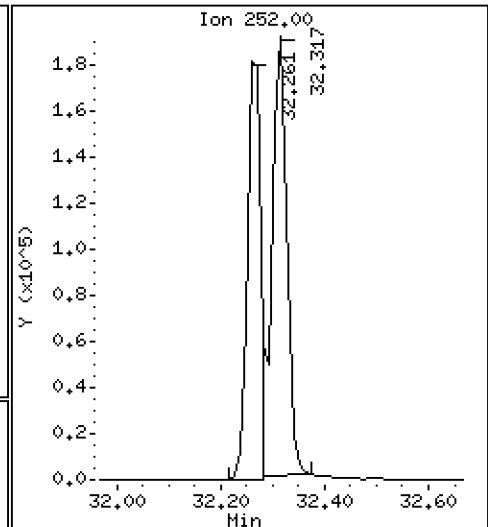
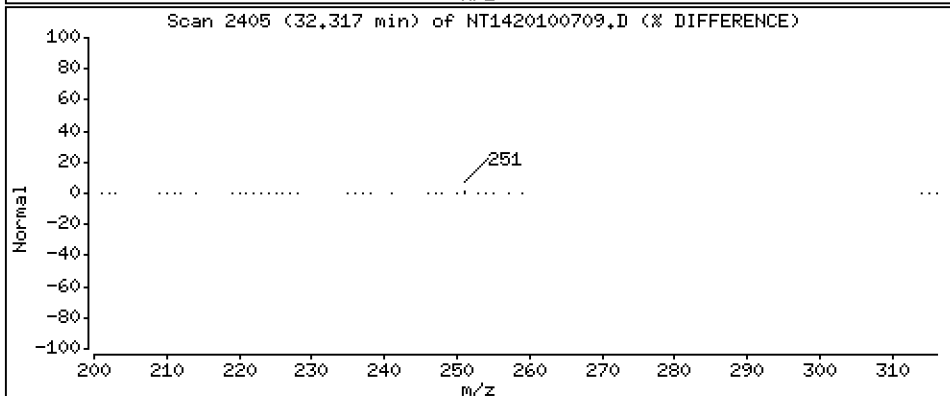
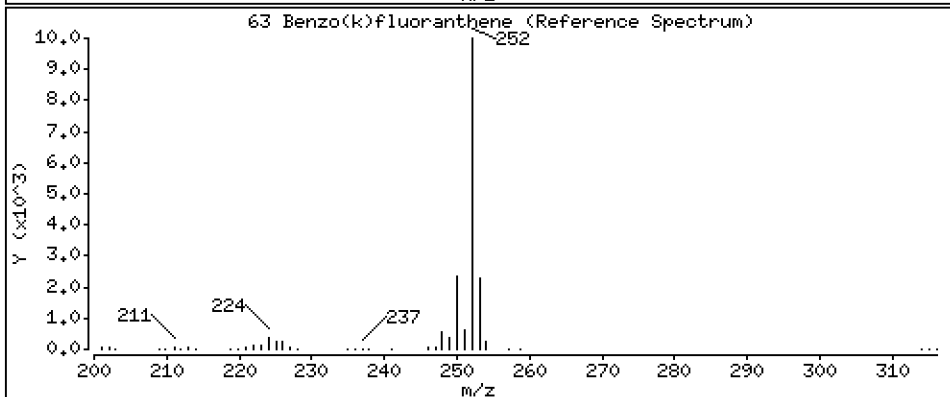
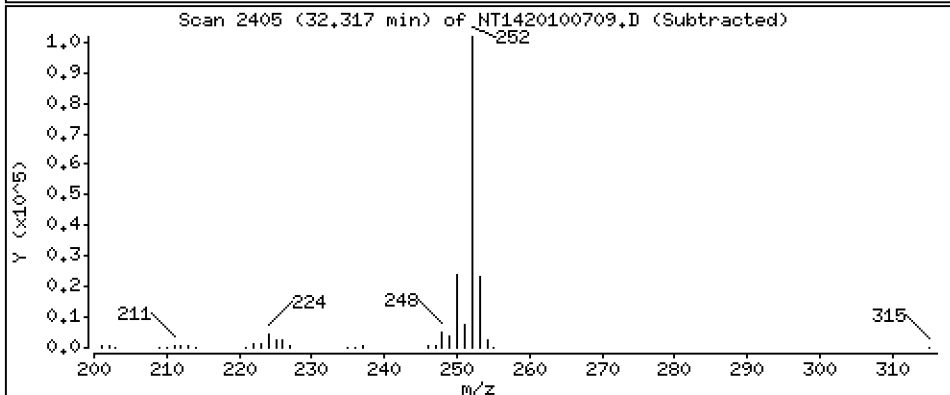
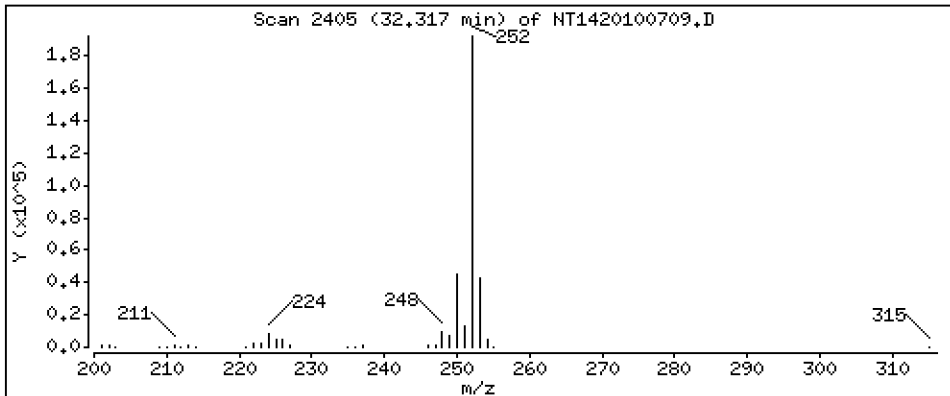
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 2,656 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

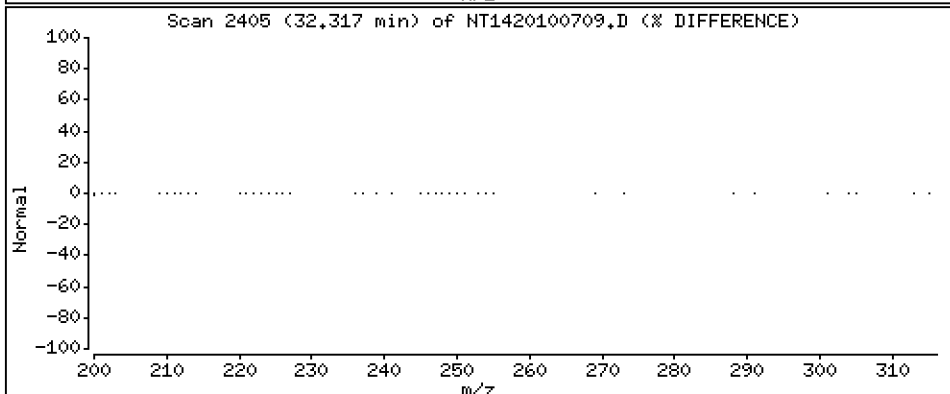
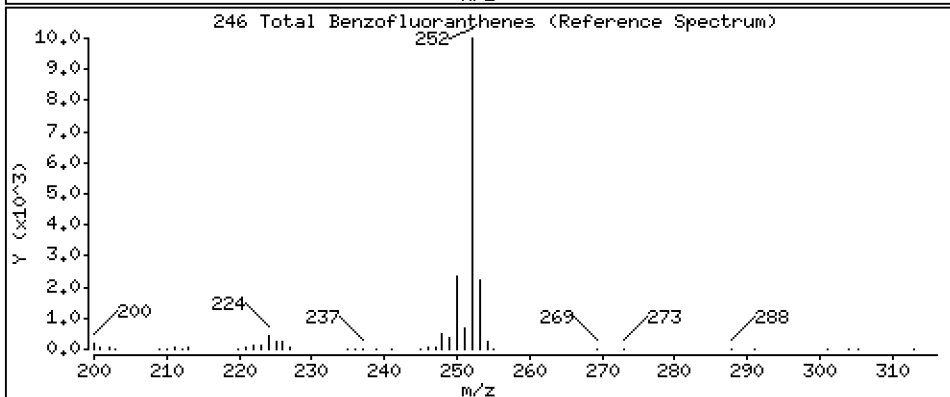
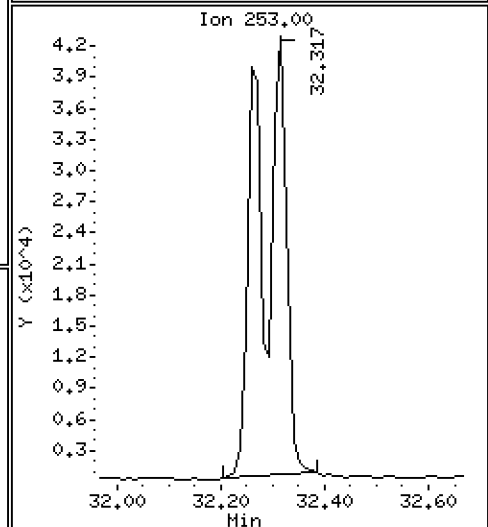
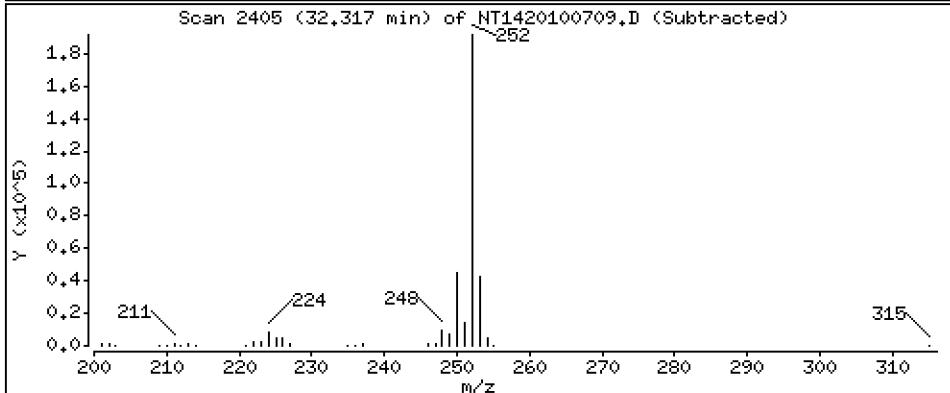
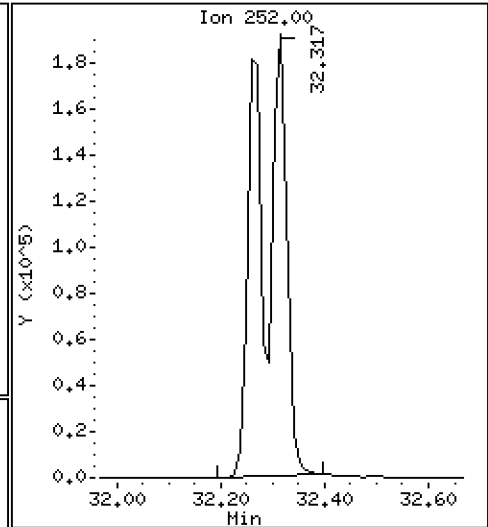
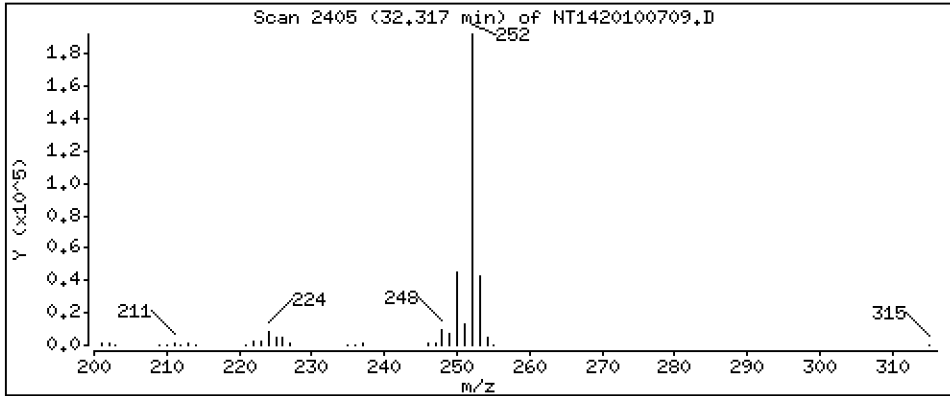
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 5,207 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

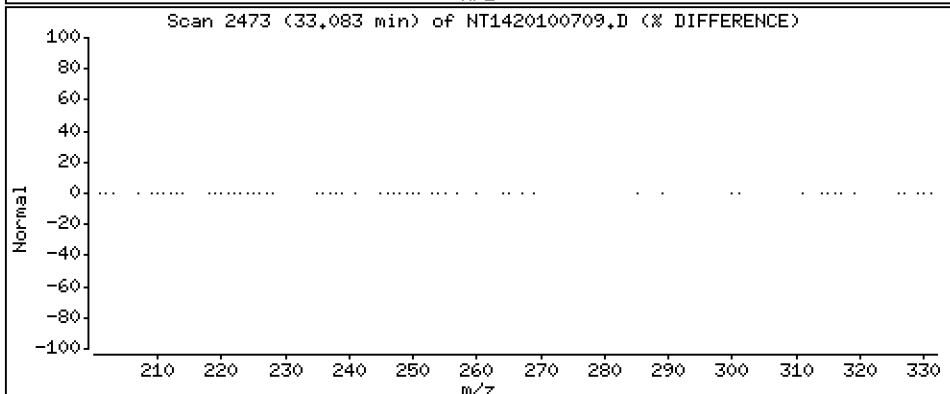
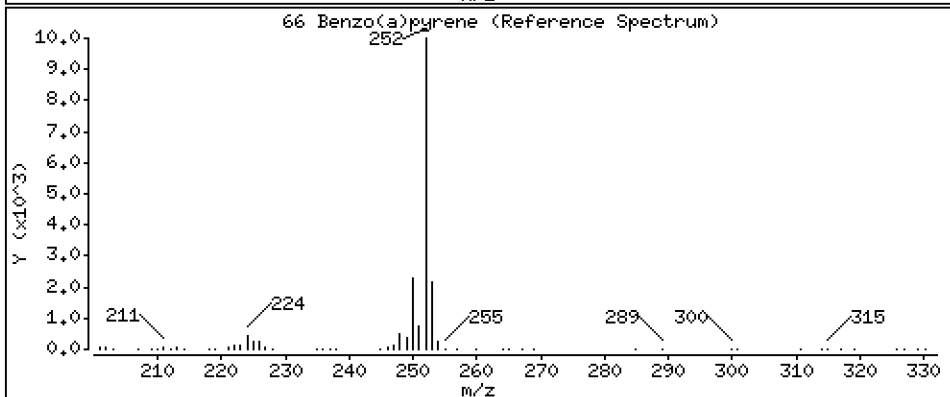
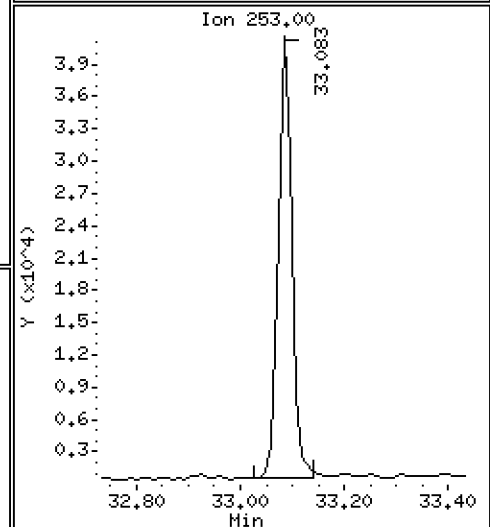
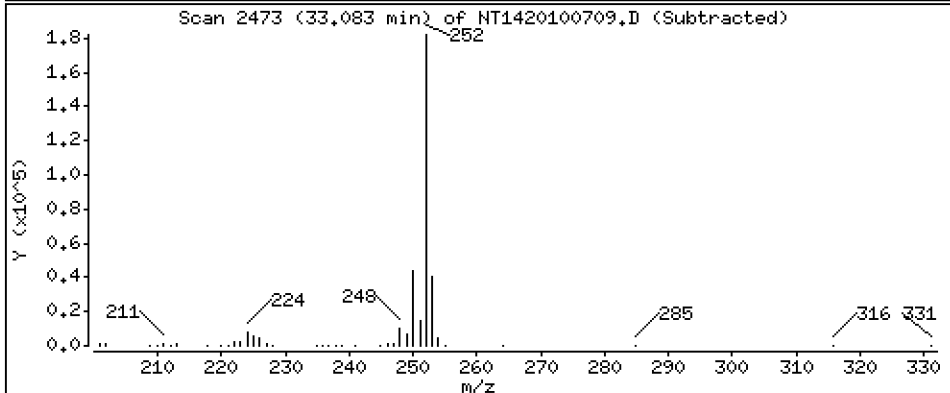
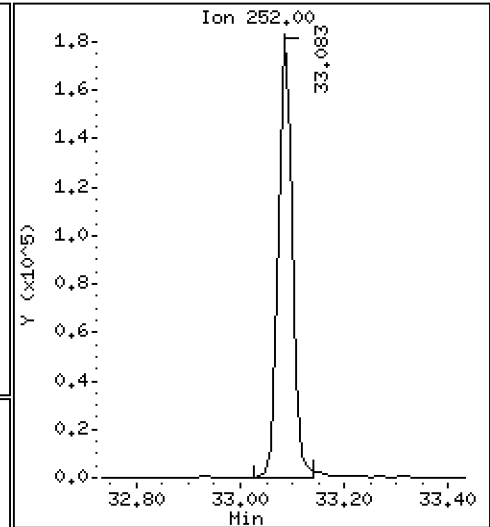
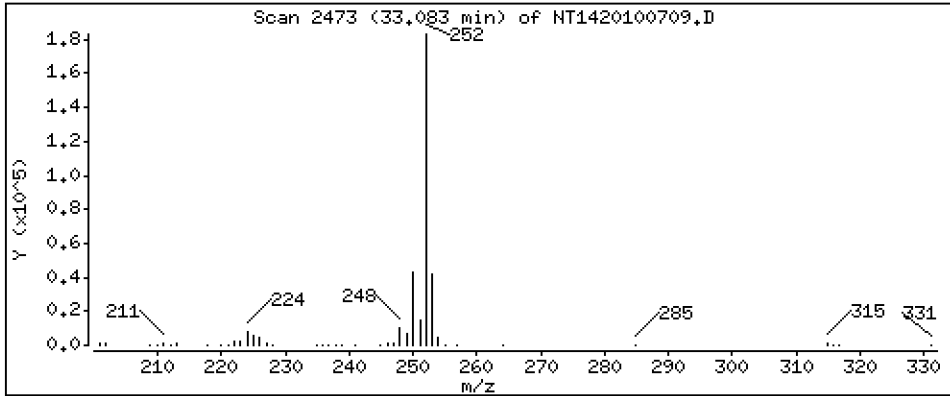
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 2,617 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

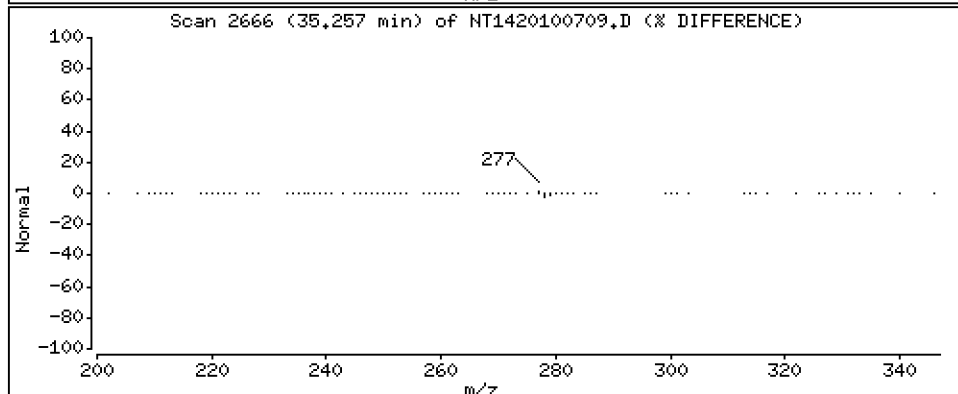
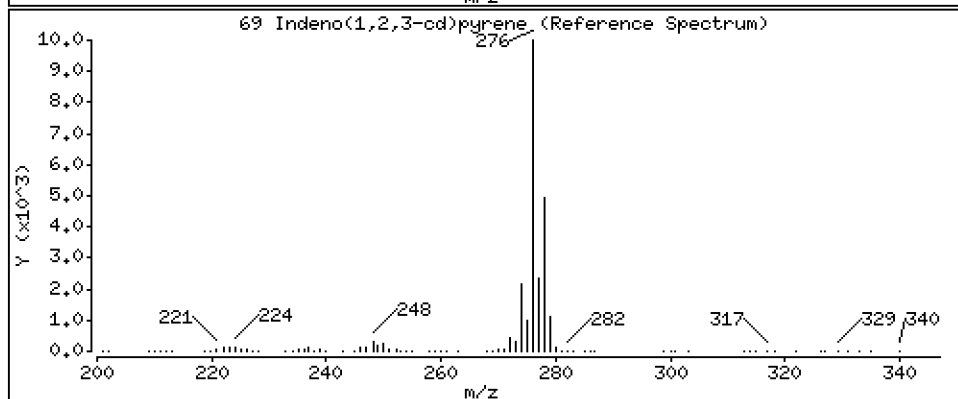
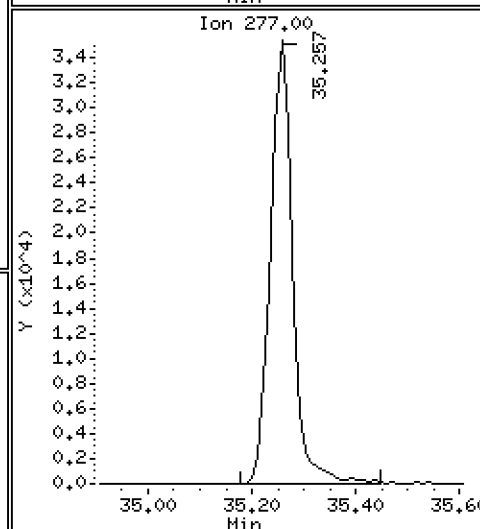
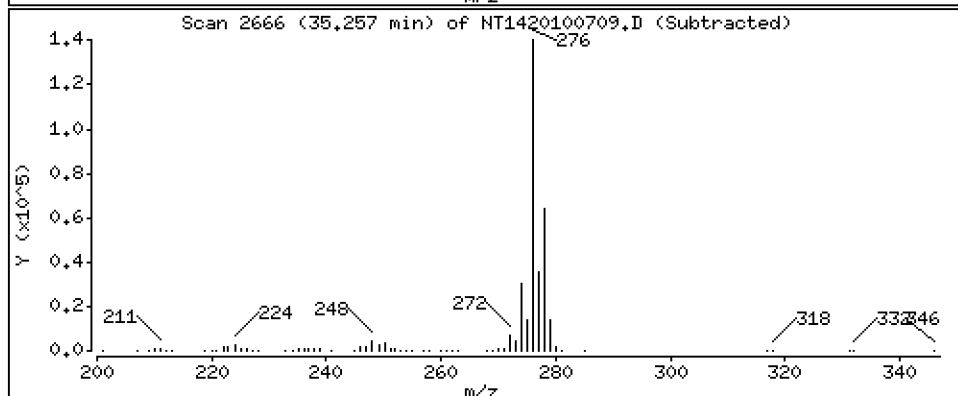
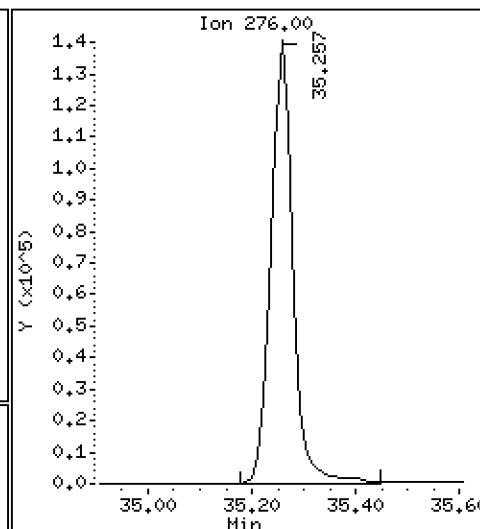
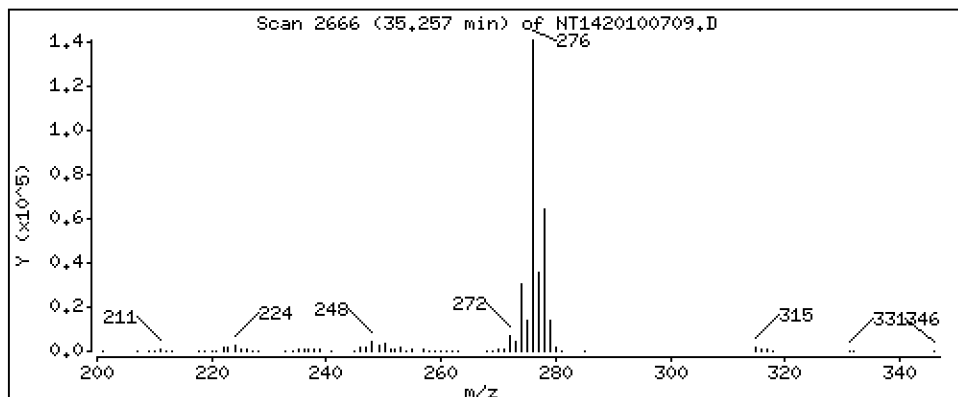
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 2,625 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

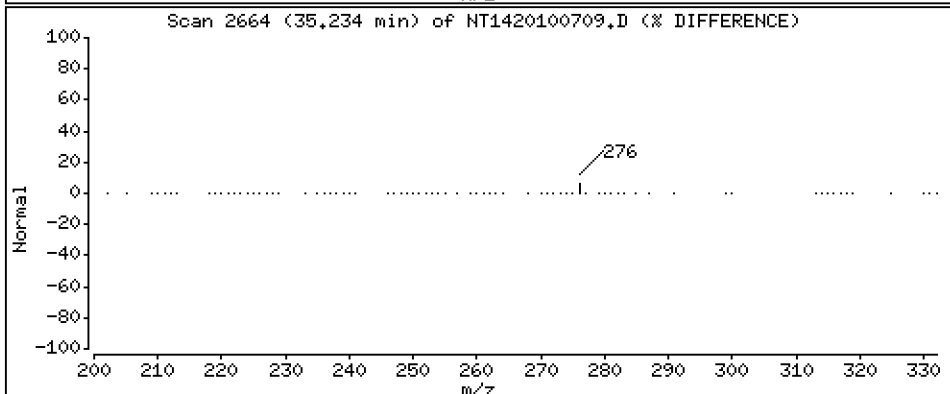
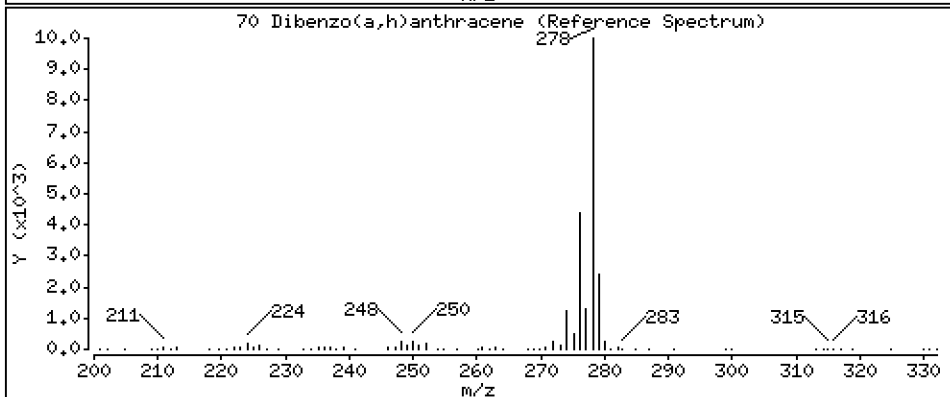
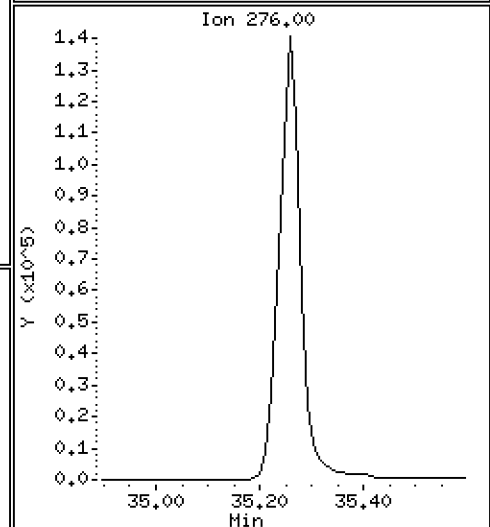
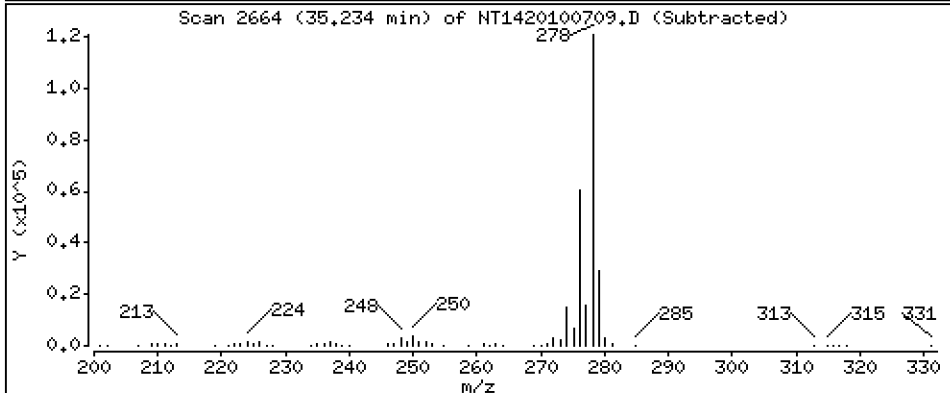
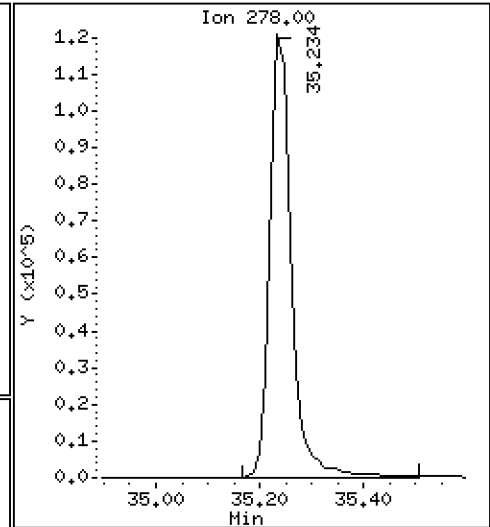
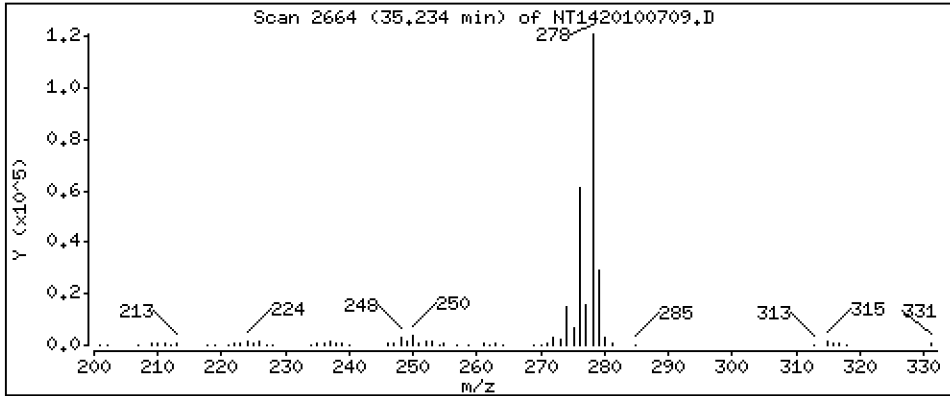
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 2,517 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

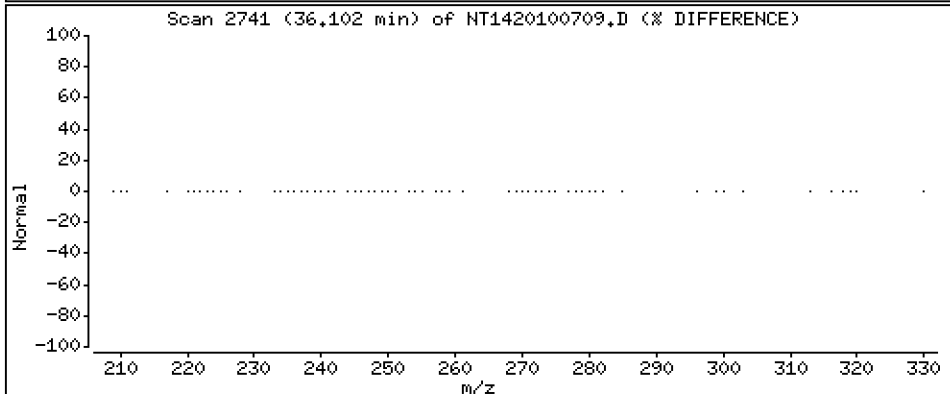
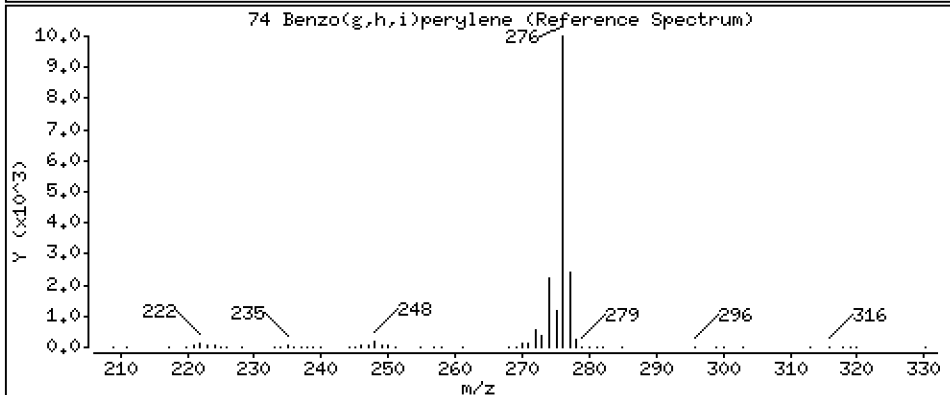
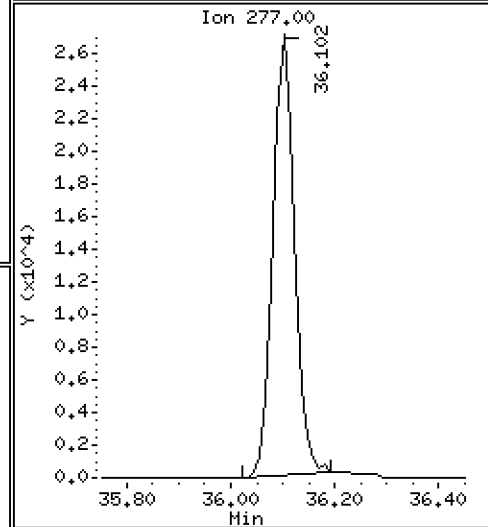
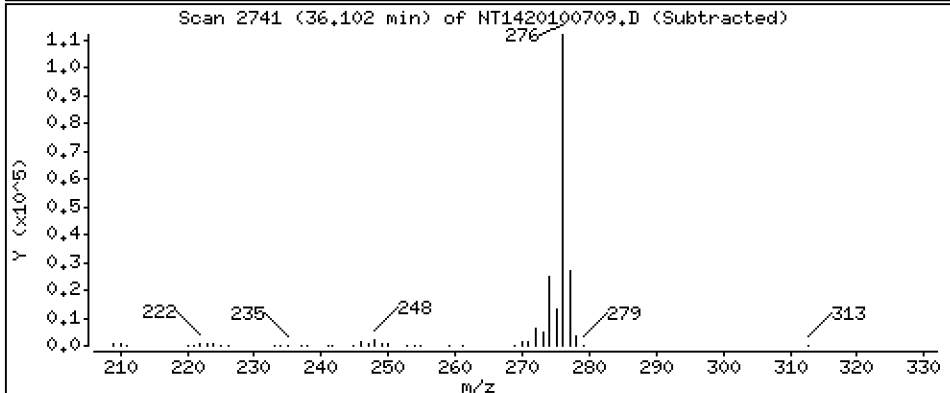
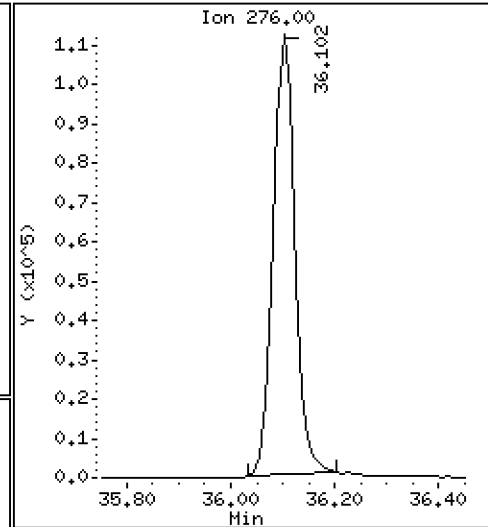
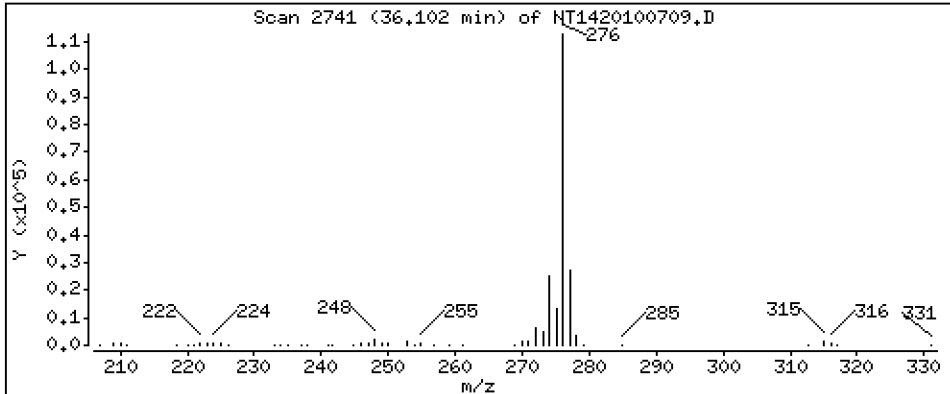
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 2,329 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100709.D
 Lab Smp Id: SIJ0085-SCV1
 Inj Date : 07-OCT-2020 16:45
 Operator : VTS
 Smp Info : SIJ0085-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138							
2 cis-Decalin	138							
\$ 6 Naphthalene-d8	136							
7 Naphthalene	128		11.707	11.707	(0.628)	213173	2.75707	2.757
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	132308	2.80714	2.807
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	134040	2.83535	2.835
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152		16.817	16.817	(0.903)	244094	2.87456	2.875
\$ 21 Acenaphthene-d10	164		17.135	17.103	(0.920)	20448	0.44062	0.4406(R)
22 Acenaphthene	153		17.223	17.223	(0.924)	150978	2.71407	2.714
23 Dibenzofuran	168		17.597	17.597	(0.944)	249328	3.08950	3.090
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	189405	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	186659	2.96697	2.967
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188							
36 Phenanthrene	178		22.040	22.040	(0.999)	276406	2.45432	2.454
* 250 Anthracene-d10	188		22.072	22.072	(1.000)	203362	2.00000	
37 Anthracene	178		22.138	22.138	(1.003)	263969	2.38495	2.385
42 Carbazole	167		23.425	23.425	(1.061)	225622	2.35395	2.354
43 1-Methylphenanthrene	192							
44 Fluoranthene	202		25.843	25.843	(1.171)	302784	2.43596	2.436
46 Pyrene	202		26.701	26.701	(1.210)	327478	2.49671	2.497
51 Naphthobenzothiophene	234							
55 Benzo(a)anthracene	228		29.839	29.839	(0.906)	321298	2.58148	2.581
\$ 56 Chrysene-d12	240							
57 Chrysene	228		30.042	30.042	(0.912)	311187	2.51557	2.516
62 Benzo(b)fluoranthene	252		32.260	32.272	(0.980)	335486	2.38726	2.387
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	376214	2.65607	2.656
293 Benzo(j)fluoranthene	252							
246 Total Benzofluoranthenes	252		32.317	32.317	(0.982)	678991	5.20731	5.207(M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS		
							ON-COLUMN (ug/mL)	FINAL (ug/mL)	
* 251 Benzo(e)pyrene-d12	264		32.925	32.925	(1.000)	288304	2.00000		
64 Benzo(e)pyrene	252		Compound Not Detected.						
66 Benzo(a)pyrene	252		33.083	33.083	(1.005)	318127	2.61683	2.617	
\$ 67 Perylene-d12	264		Compound Not Detected.						
68 Perylene	252		Compound Not Detected.						
69 Indeno(1,2,3-cd)pyrene	276		35.256	35.256	(1.071)	395155	2.62484	2.625	
70 Dibenzo(a,h)anthracene	278		35.234	35.245	(1.070)	334739	2.51676	2.517	
74 Benzo(g,h,i)perylene	276		36.101	36.101	(1.096)	307983	2.32872	2.329 (M)	

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100709.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	189405	-9.63
250 Anthracene-d10	192407	96204	384814	203362	5.69
251 Benzo(e)pyrene-d1	274120	137060	548240	288304	5.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100709.D

Lab ID: SIJ0085-SCV1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 16:45

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

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

NONE

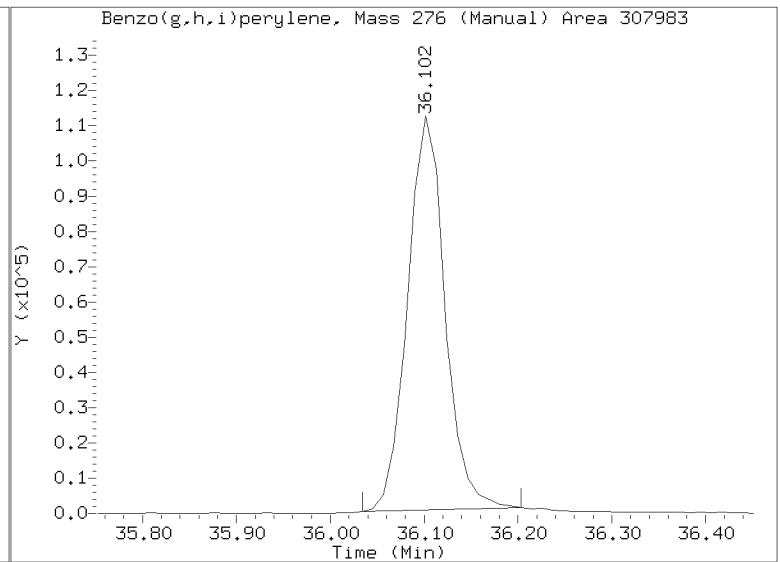
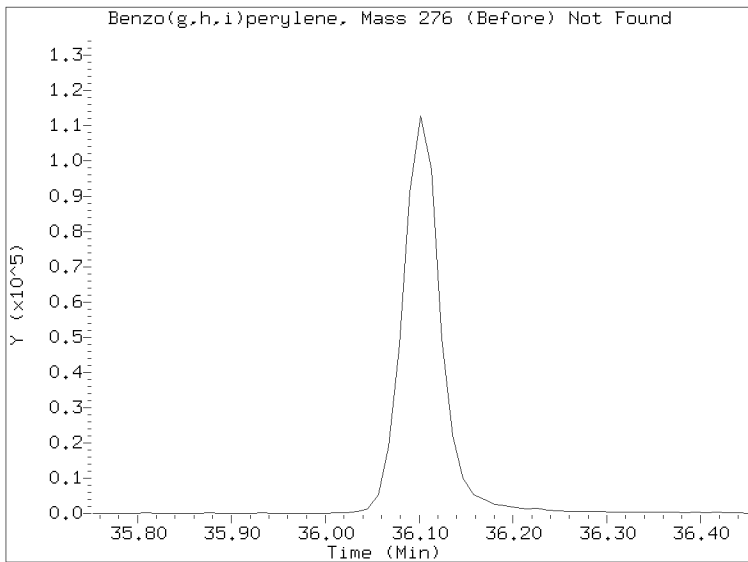
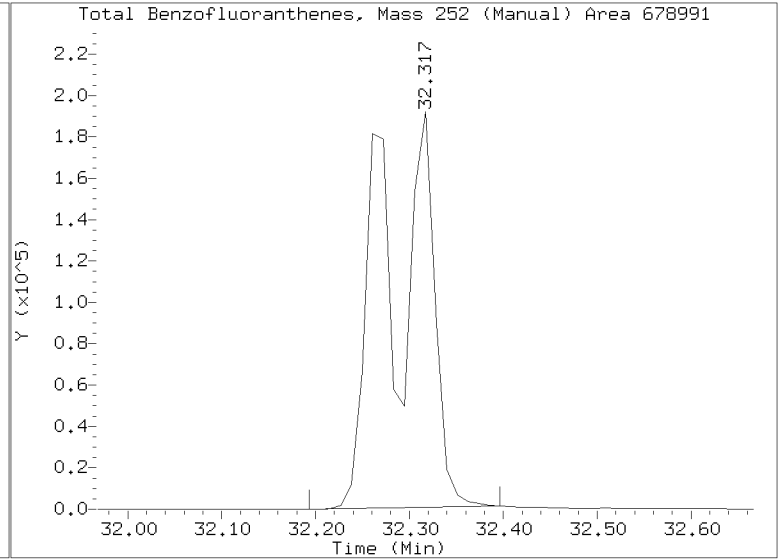
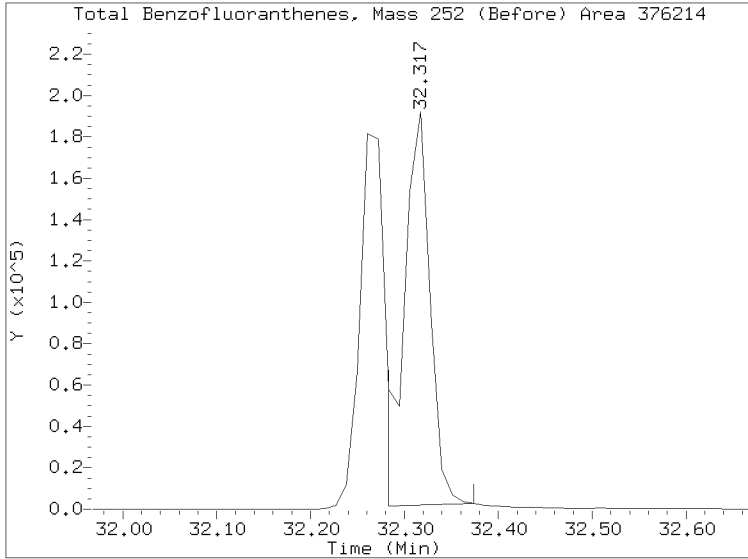
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100709.D
Injection Date: 07-OCT-2020 16:45
Lab ID:SIJ0085-SCV1 Client ID:
Report Date: 10/09/2020 08:51





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DJ00029

Laboratory ID: SIJ0085-SCV1

Sequence: SIJ0085

Standard ID: I009393

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Naphthalene	2.5000	2.8	10.3	20.00
1-Methylnaphthalene	2.5000	2.8	13.4	20.00
2-Methylnaphthalene	2.5000	2.8	12.3	20.00
Acenaphthylene	2.5000	2.9	15.0	20.00
Acenaphthene	2.5000	2.7	8.6	20.00
Dibenzofuran	2.5000	3.1	23.6 *	20.00
Fluorene	2.5000	3.0	18.7	20.00
Phenanthrene	2.5000	2.5	-1.8	20.00
Anthracene	2.5000	2.4	-4.6	20.00
Carbazole	2.5000	2.4	-5.8	20.00
Fluoranthene	2.5000	2.4	-2.6	20.00
Pyrene	2.5000	2.5	-0.1	20.00
Benzo(a)anthracene	2.5000	2.6	3.3	20.00
Chrysene	2.5000	2.5	0.6	20.00
Benzo(b)fluoranthene	2.5000	2.4	-4.5	
Benzo(k)fluoranthene	2.5000	2.7	6.2	
Benzofluoranthenes, Total	5.0000	5.2	4.1	
Benzo(a)pyrene	2.5000	2.6	4.7	20.00
Indeno(1,2,3-cd)pyrene	2.5000	2.6	5.0	20.00
Dibenzo(a,h)anthracene	2.5000	2.5	0.7	20.00
Benzo(g,h,i)perylene	2.5000	2.3	-6.9	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20201007.16\NT1420100709.D

Date : 07-OCT-2020 16:45

Client ID:

Sample Info: S100085-SCV1

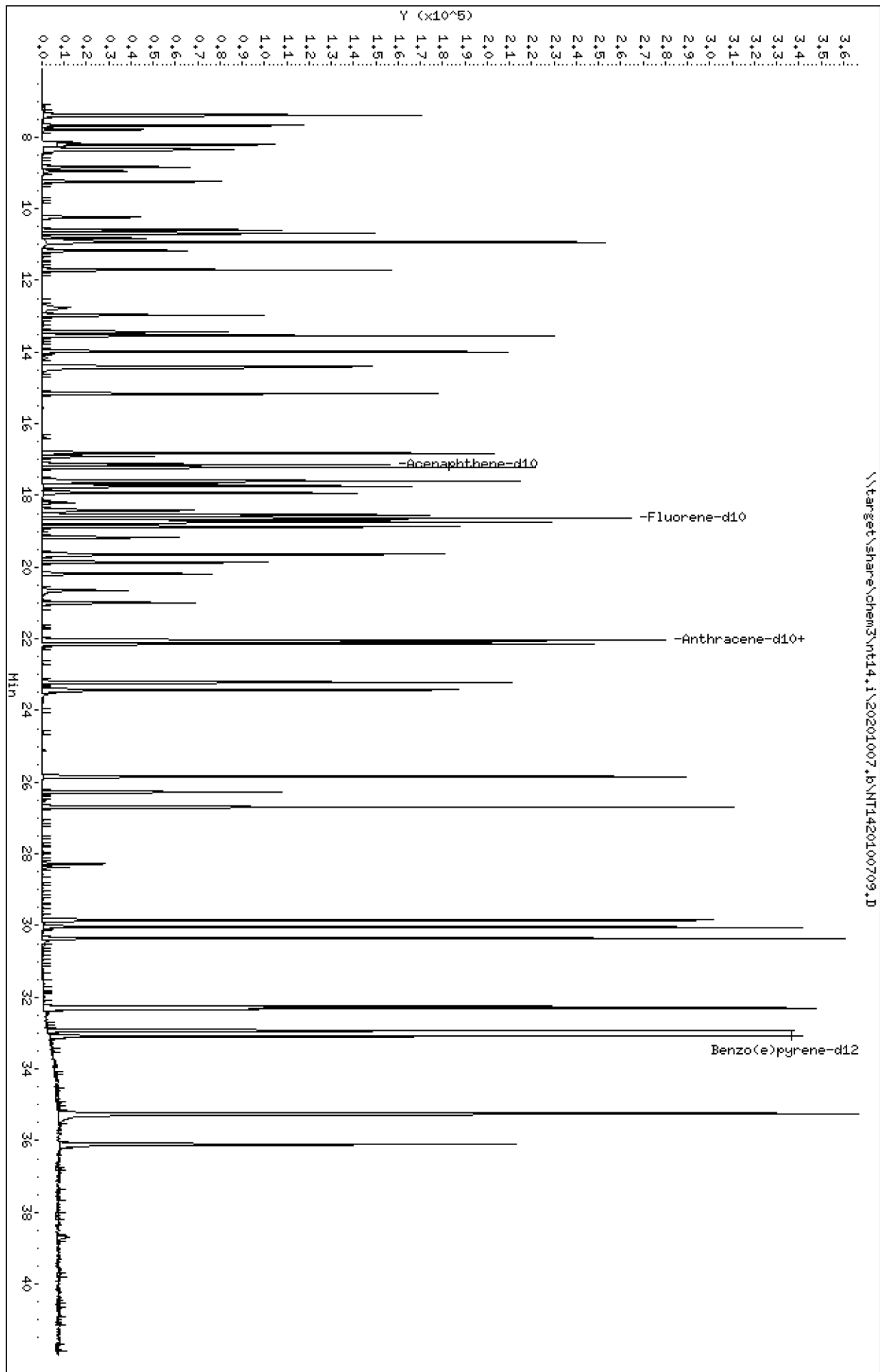
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201007.16\NT1420100709.D



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

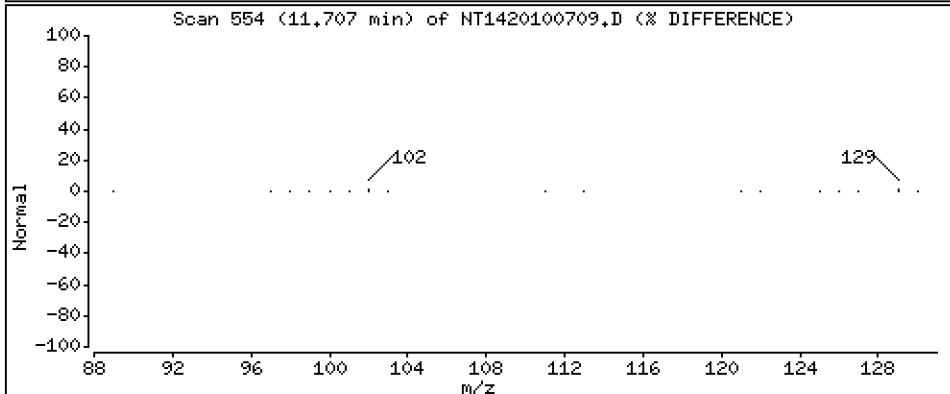
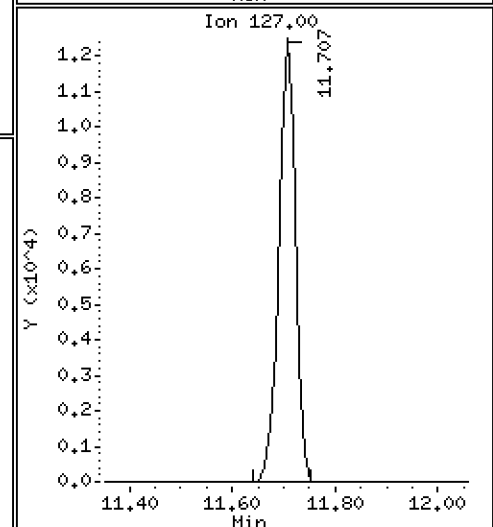
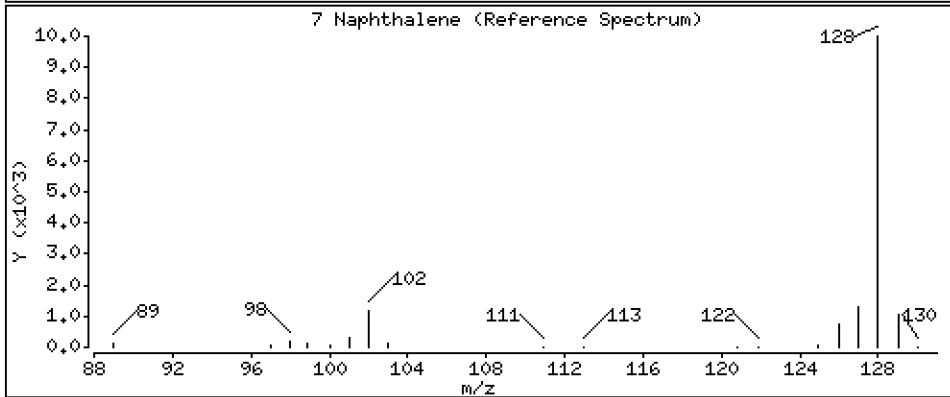
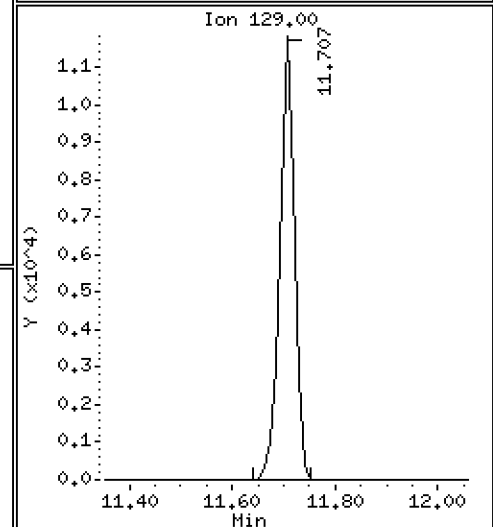
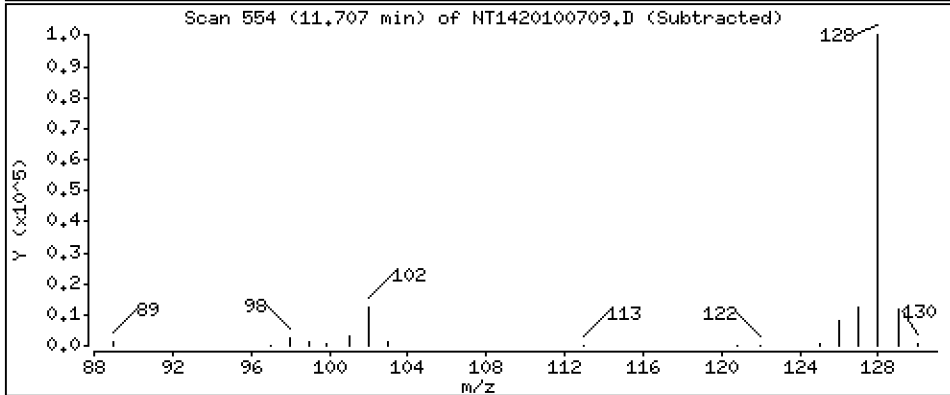
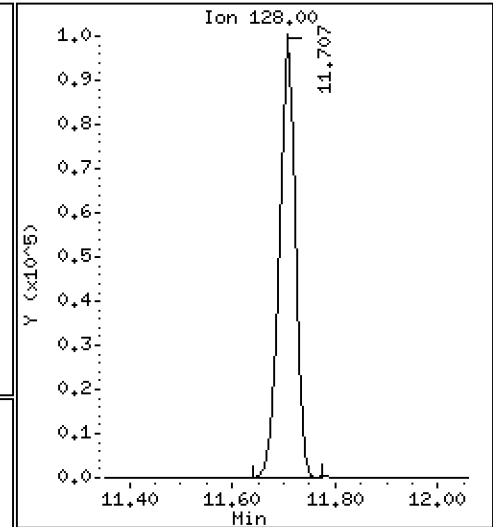
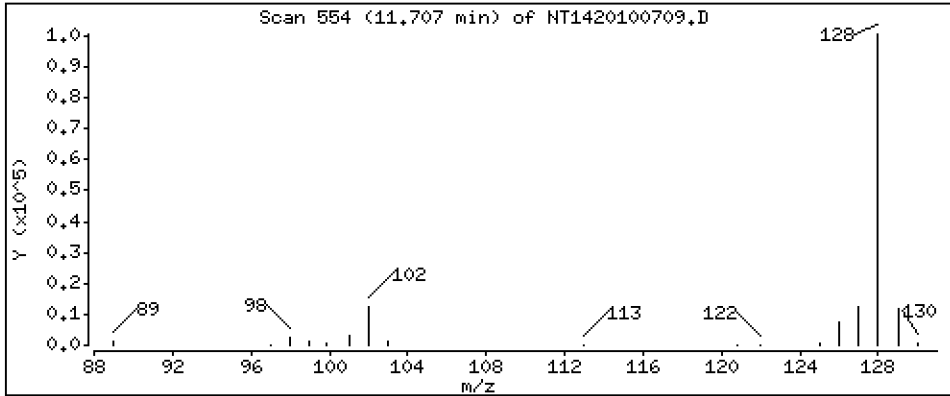
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 2,757 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

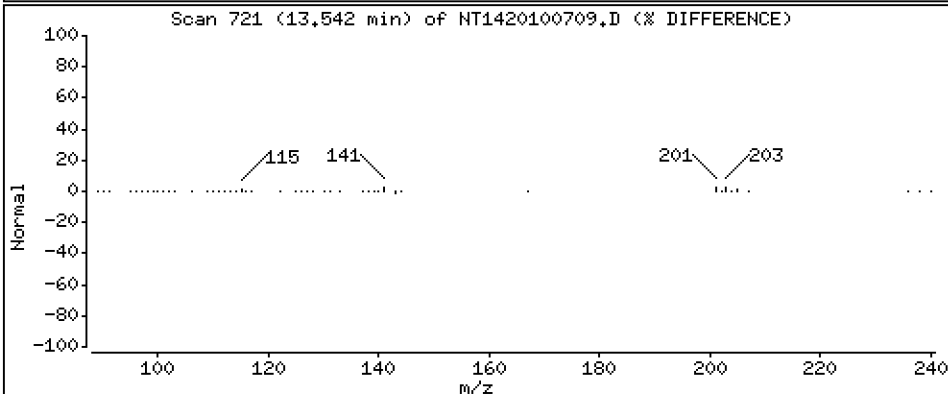
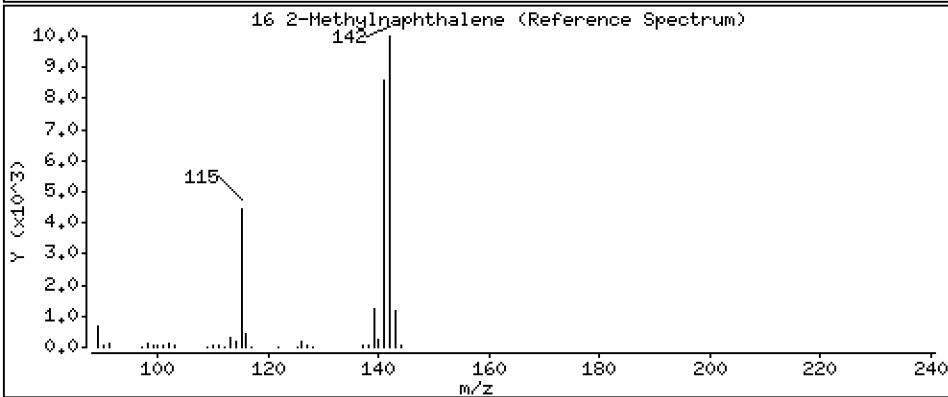
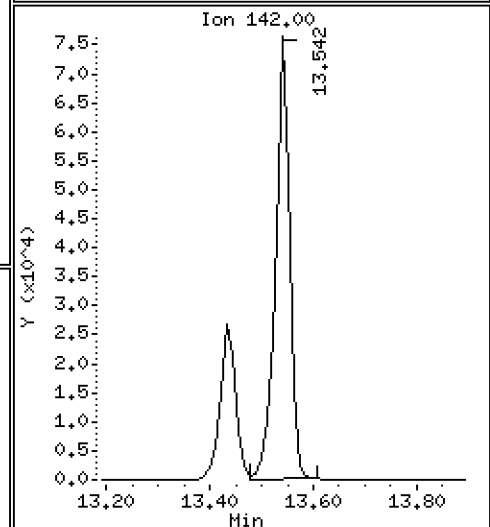
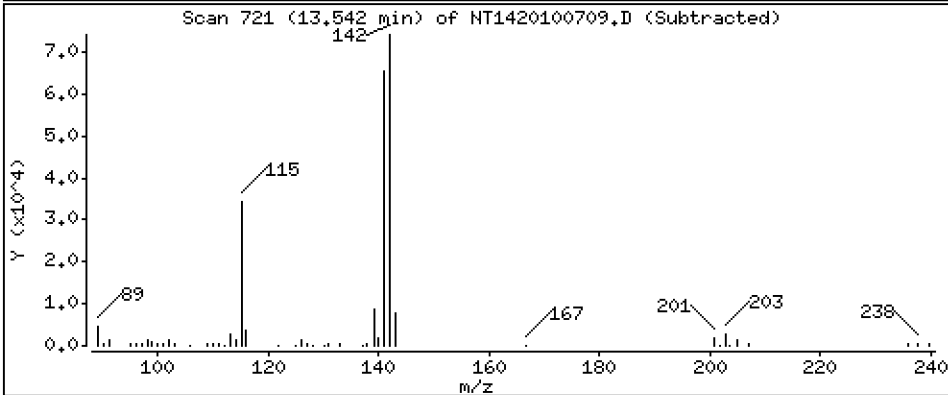
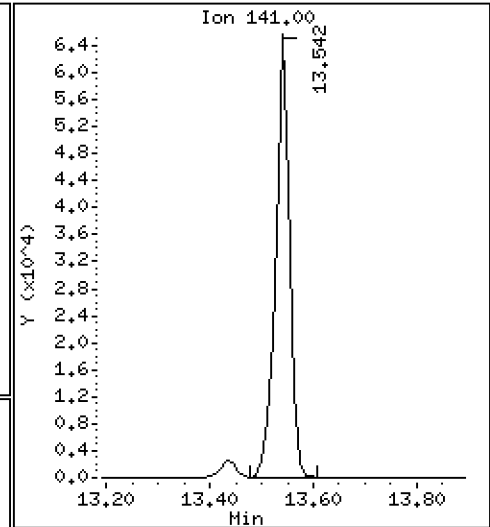
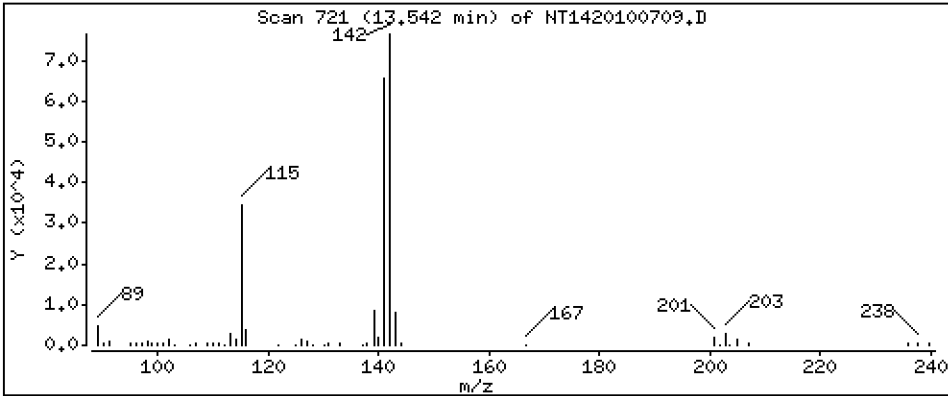
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 2,807 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

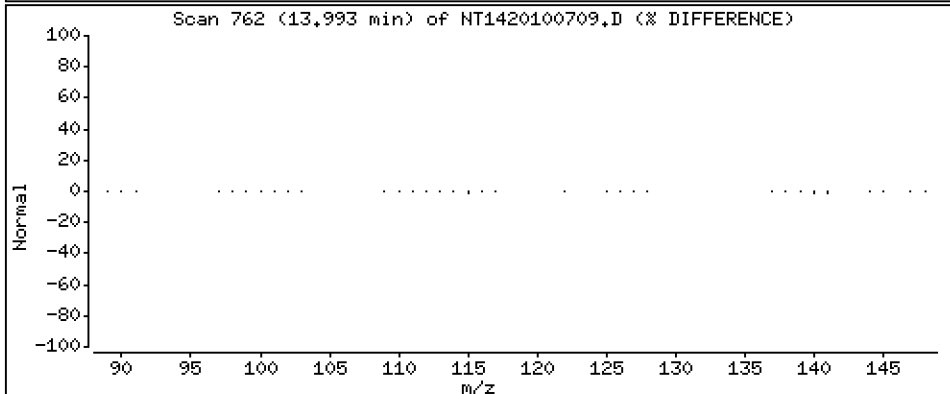
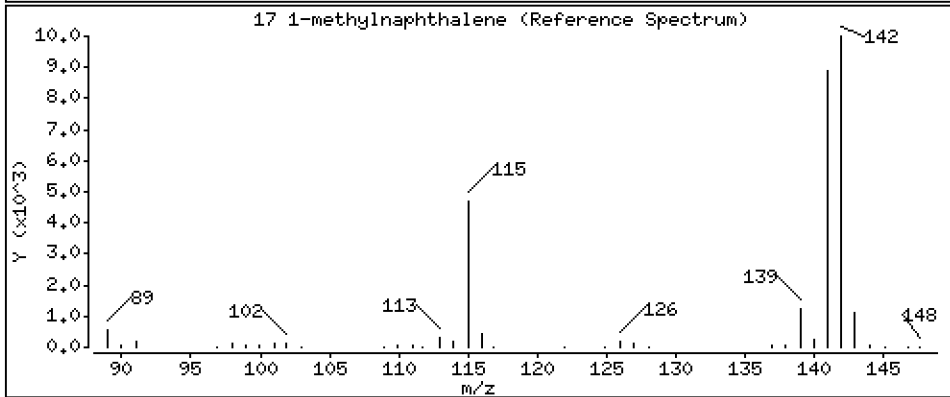
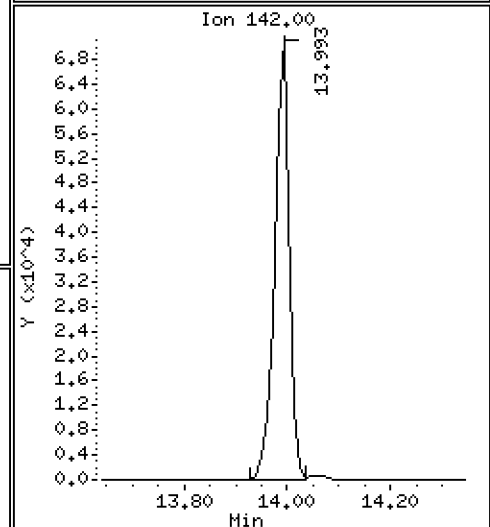
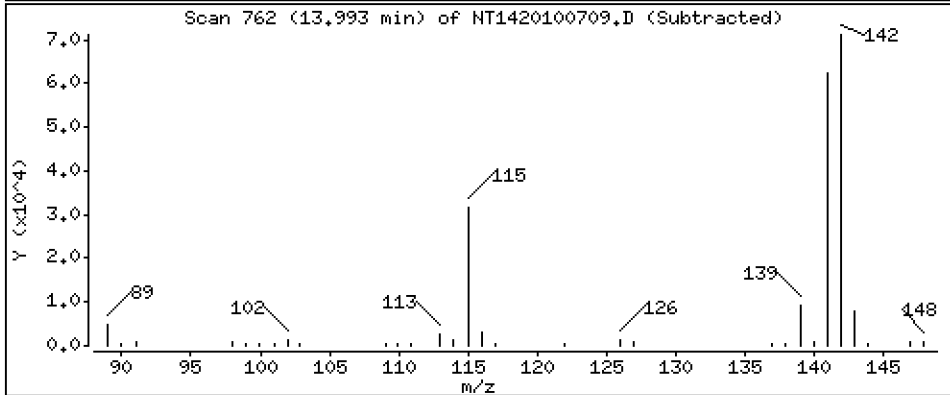
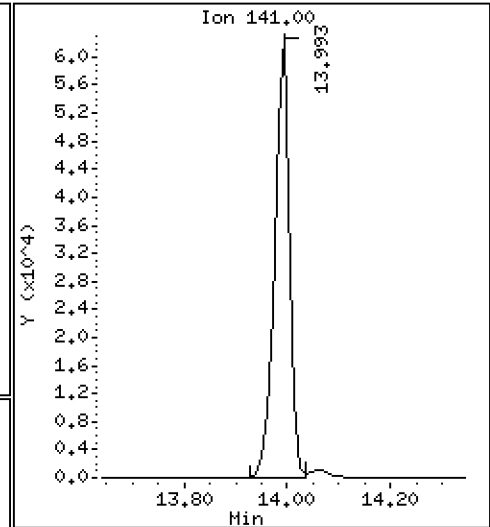
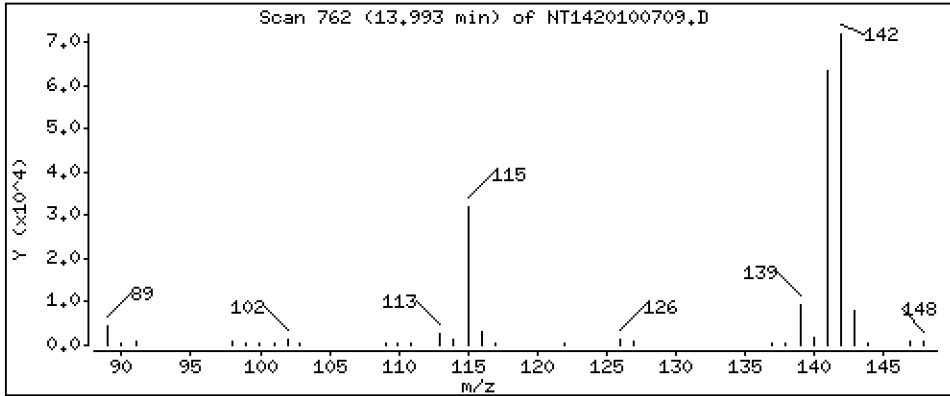
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 2,835 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

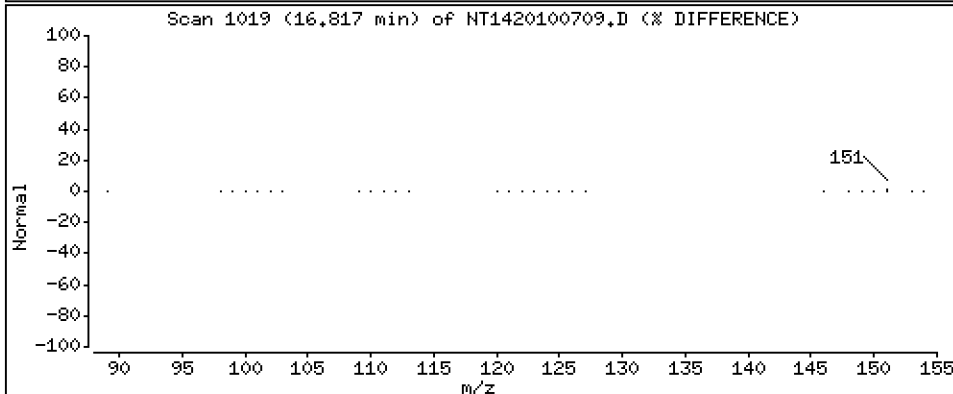
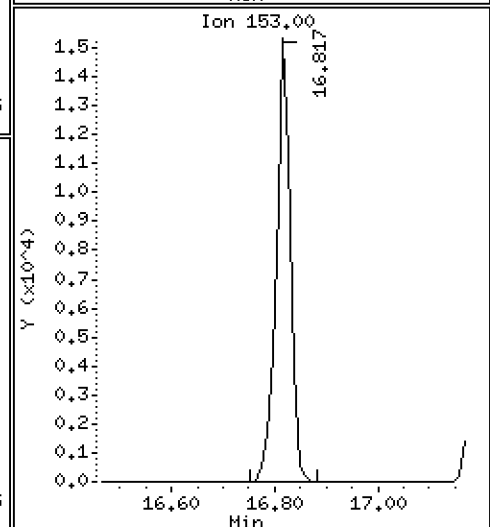
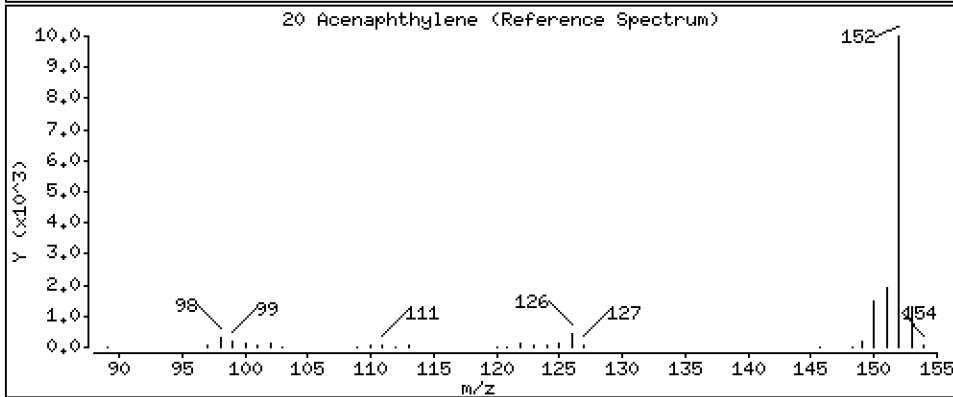
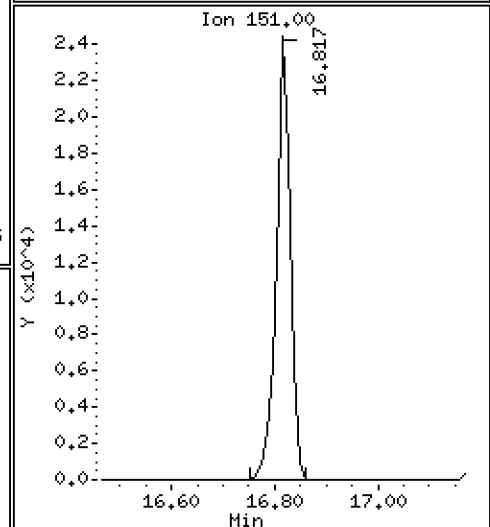
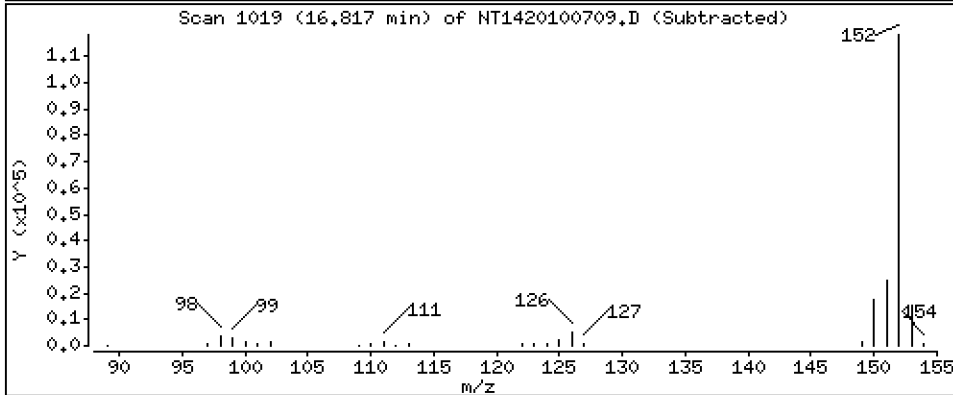
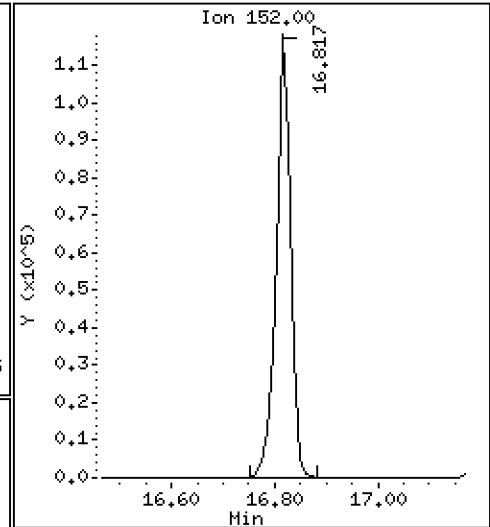
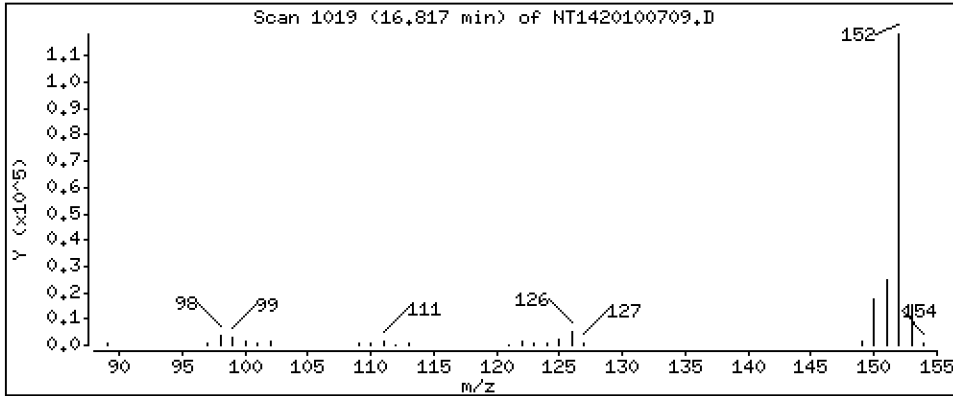
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 2,875 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

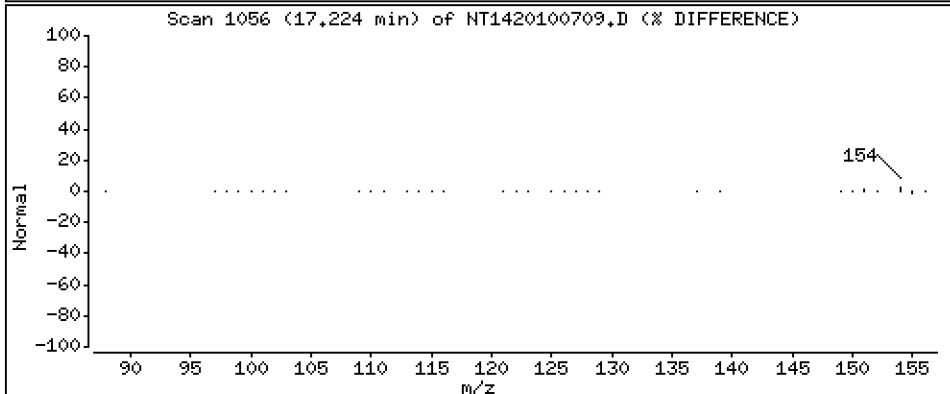
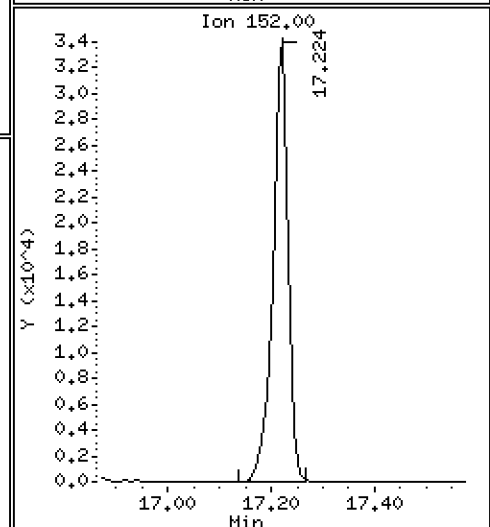
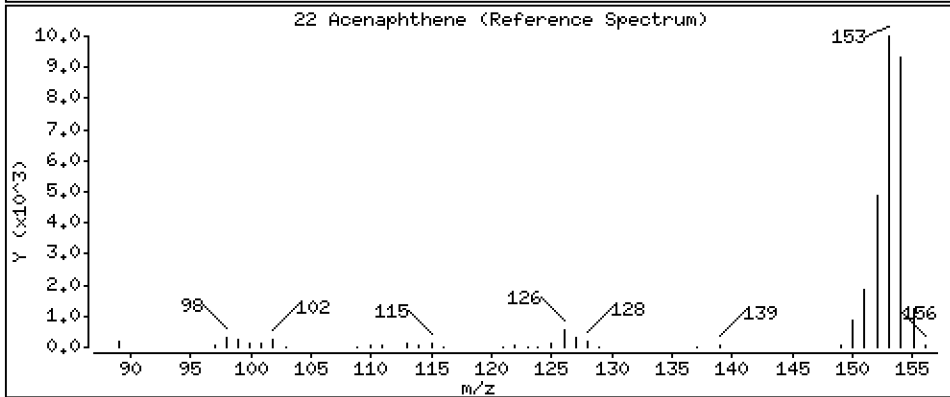
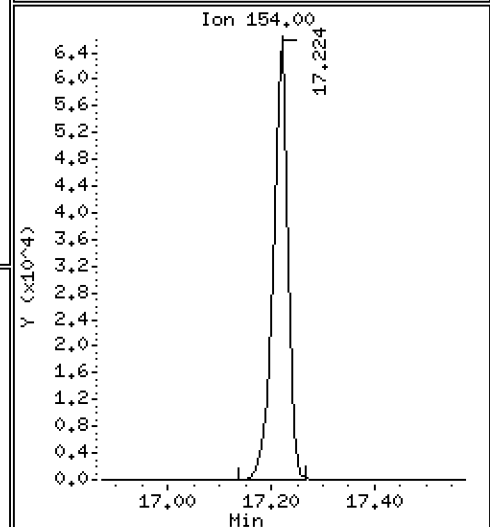
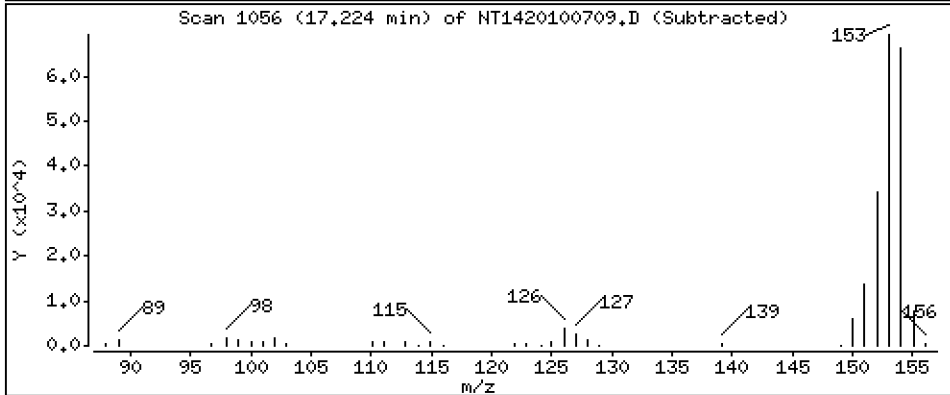
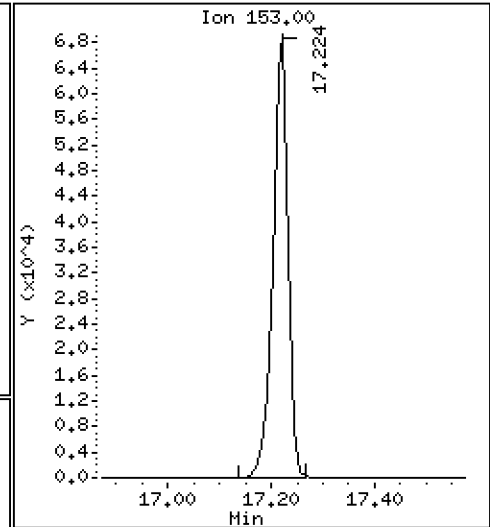
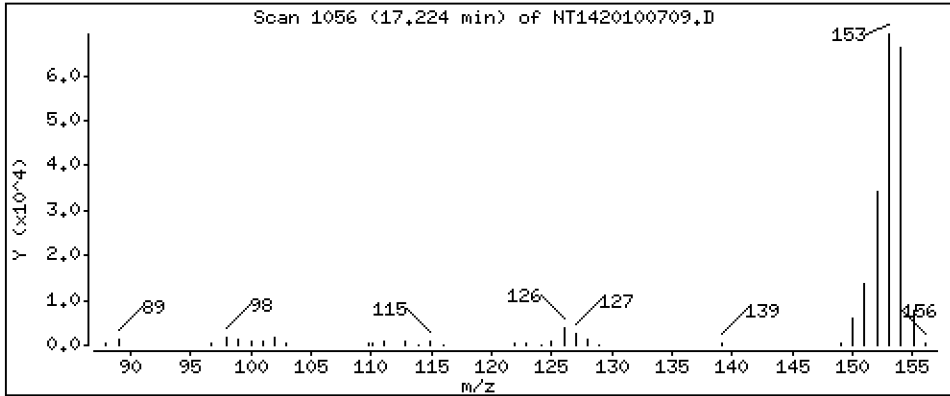
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

22 Acenaphthene

Concentration: 2,714 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

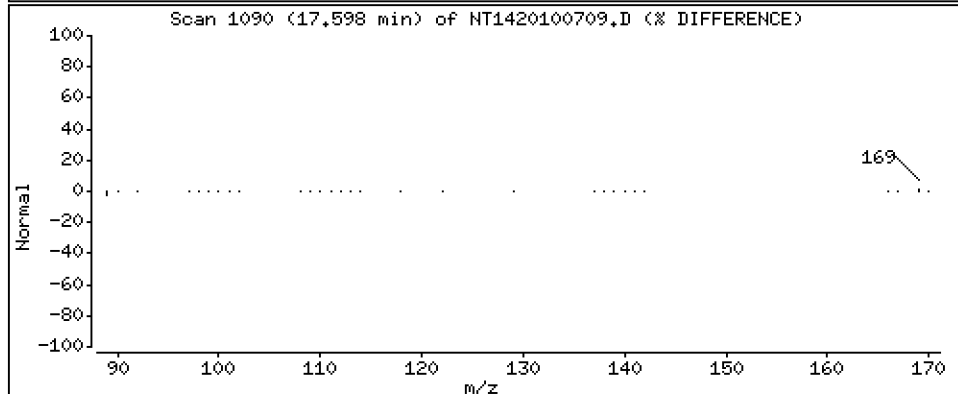
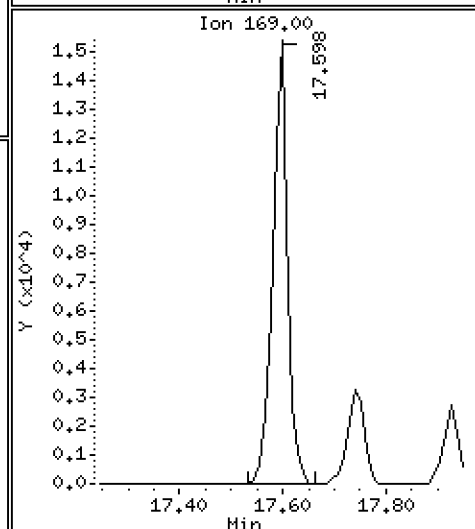
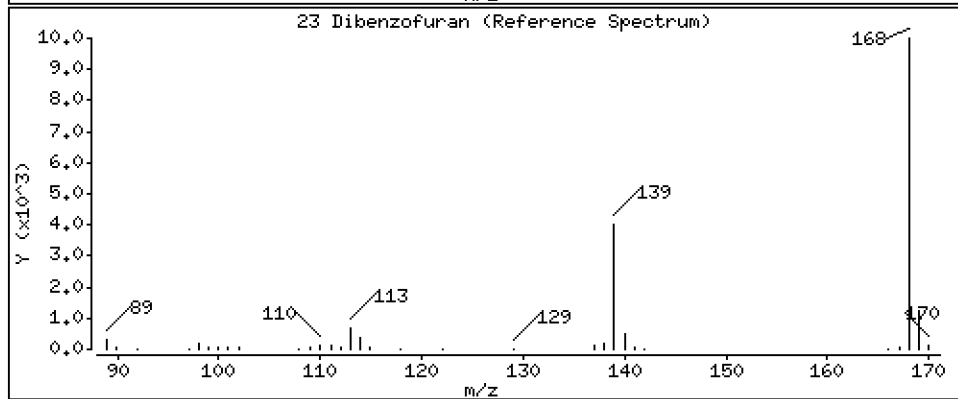
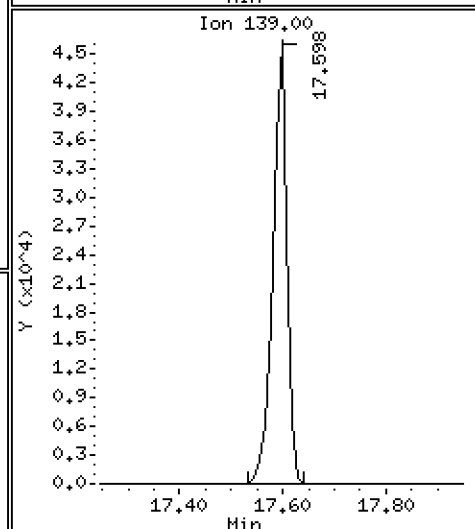
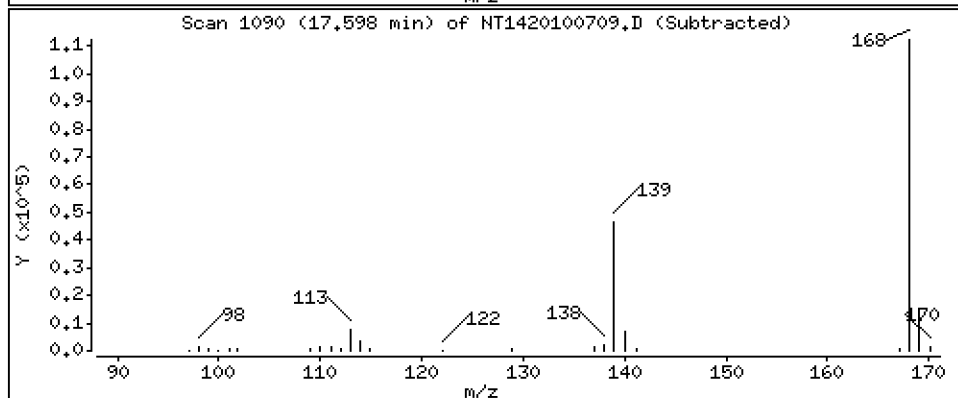
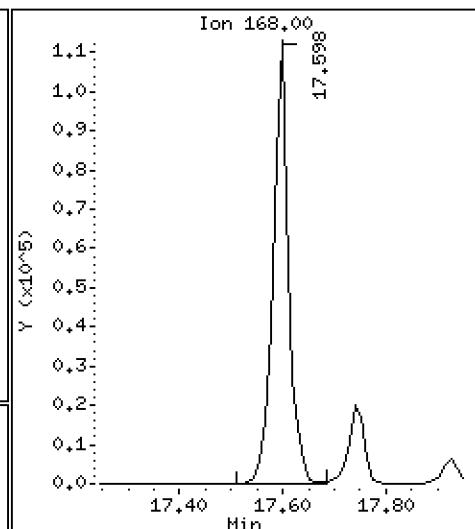
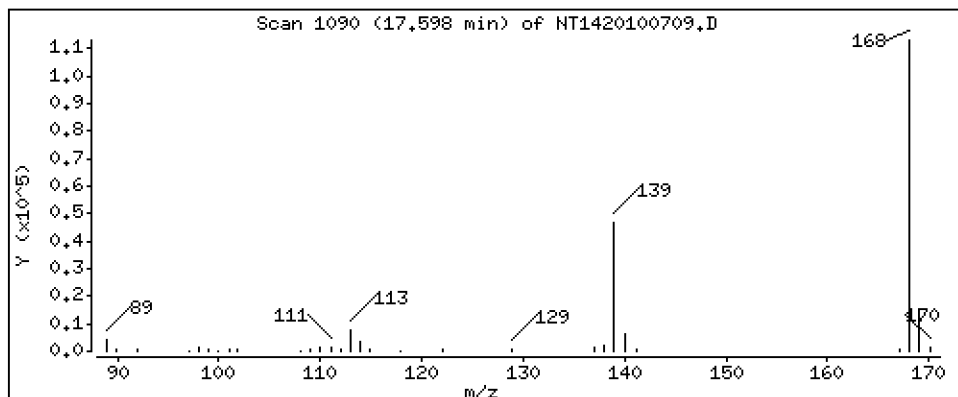
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 3,090 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

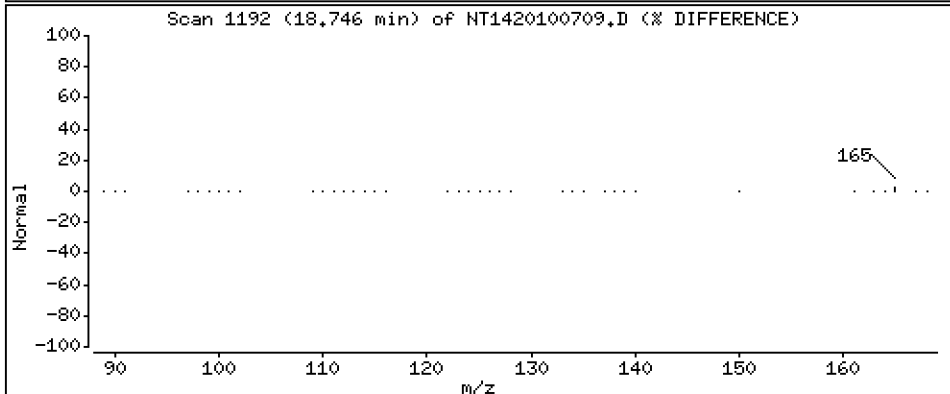
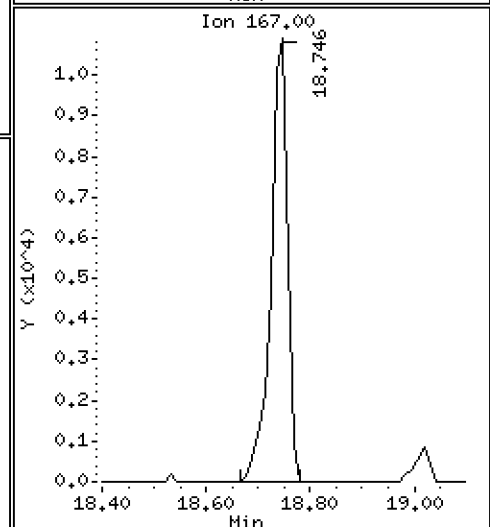
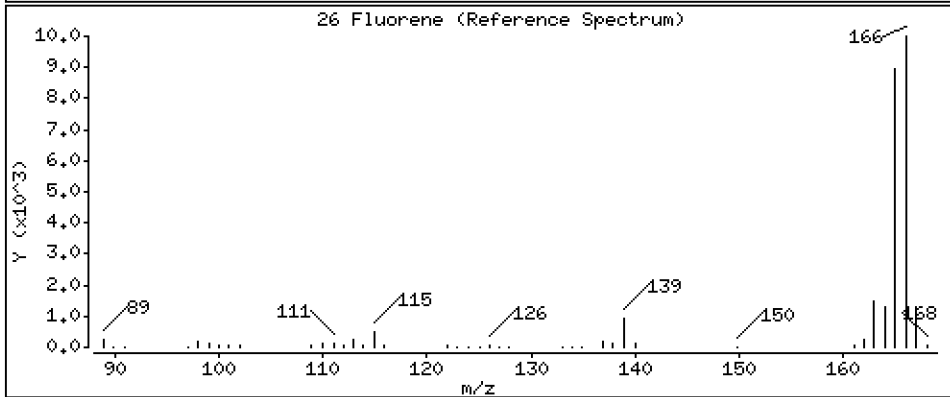
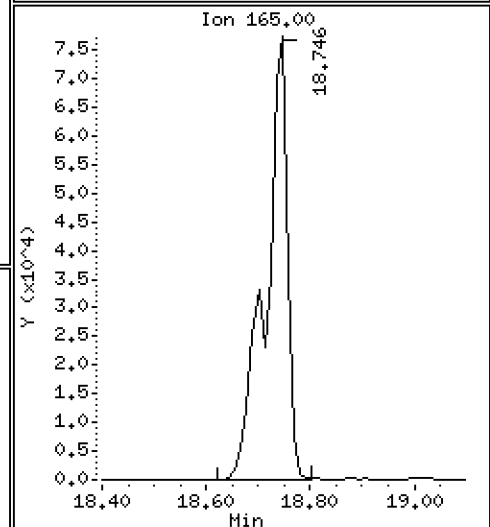
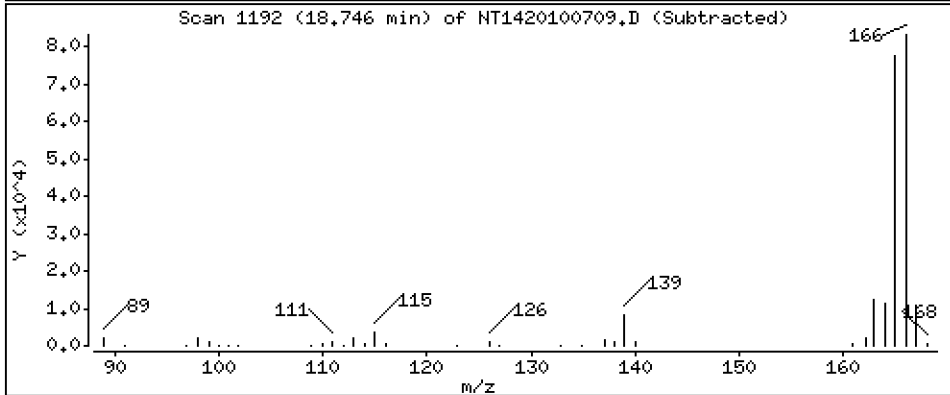
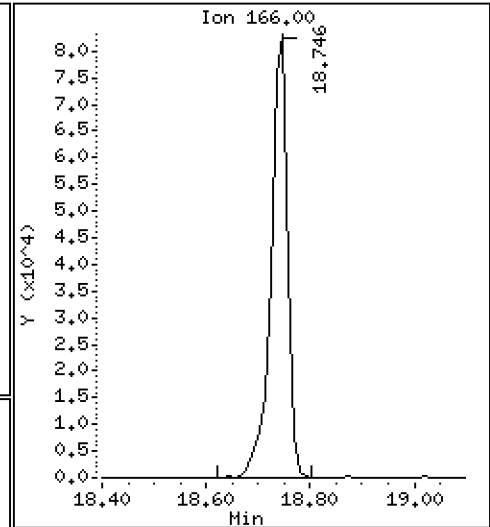
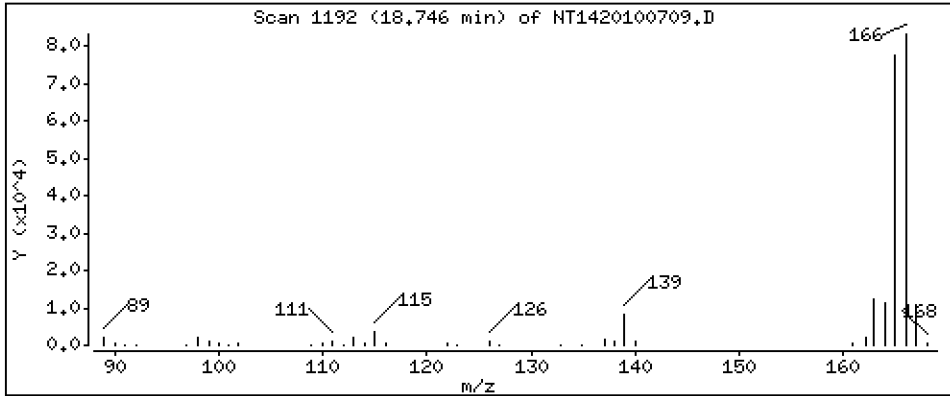
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 2,967 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

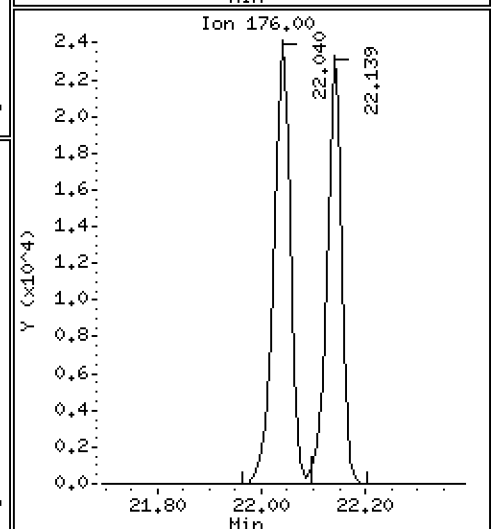
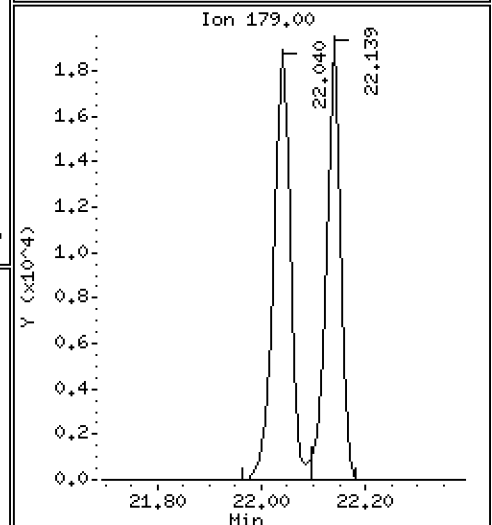
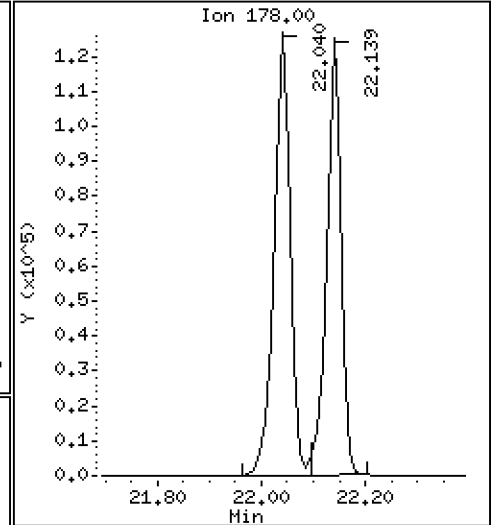
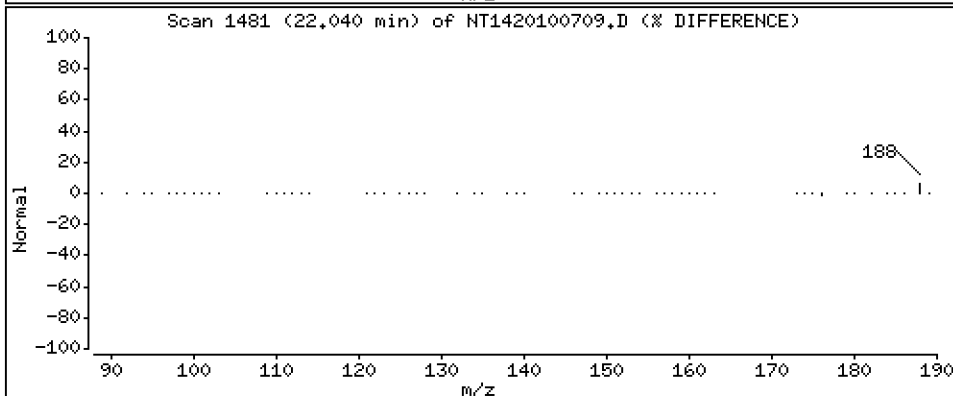
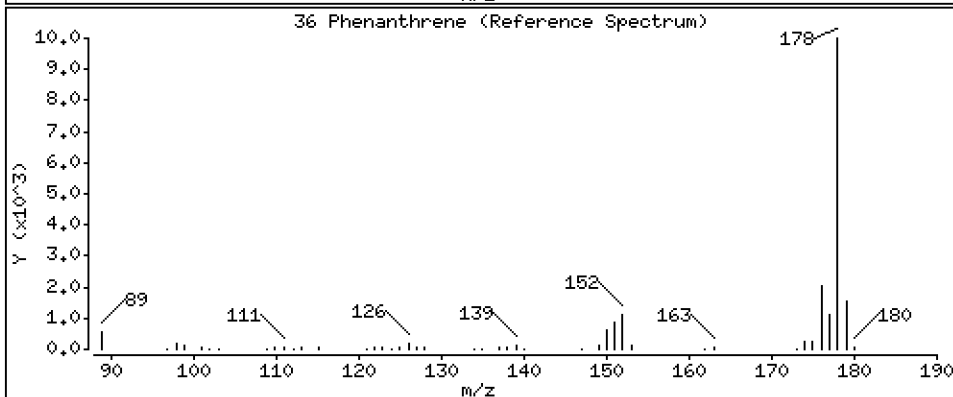
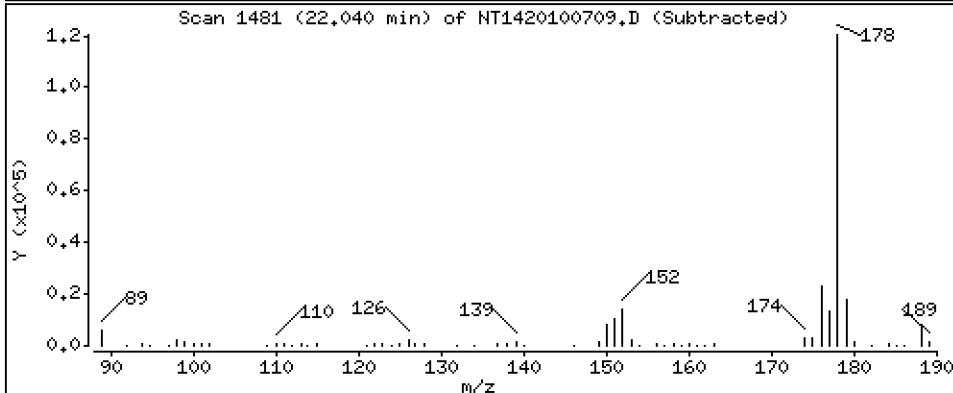
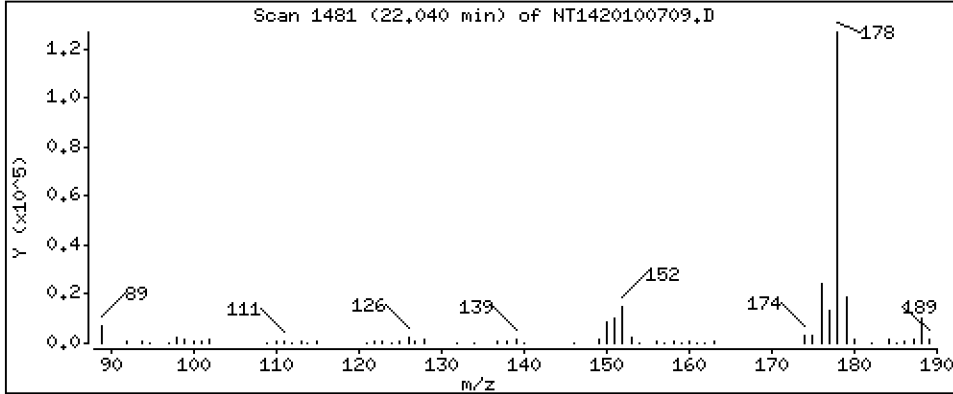
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

Concentration: 2,454 ug/mL

36 Phenanthrene



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

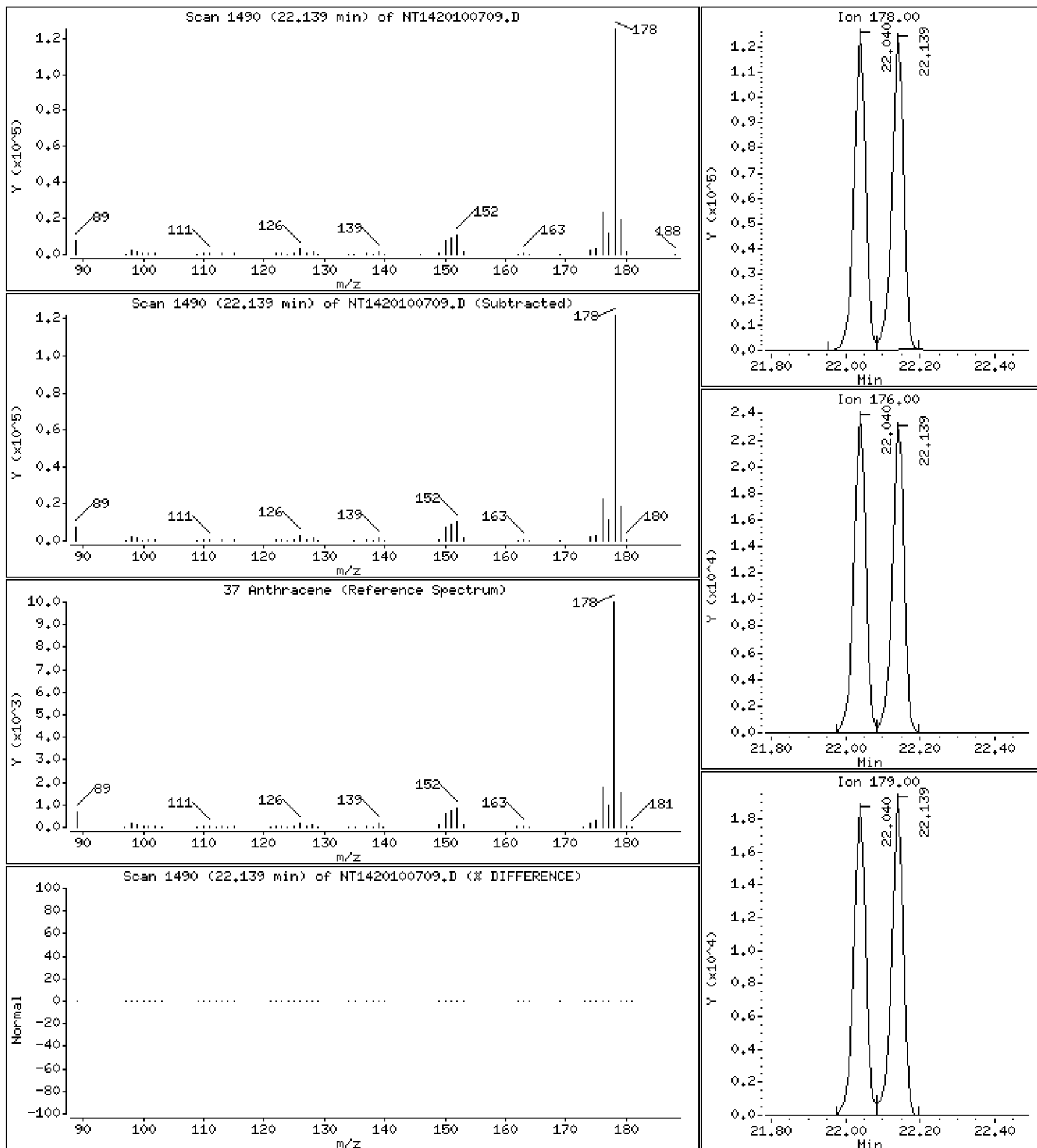
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 2,385 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

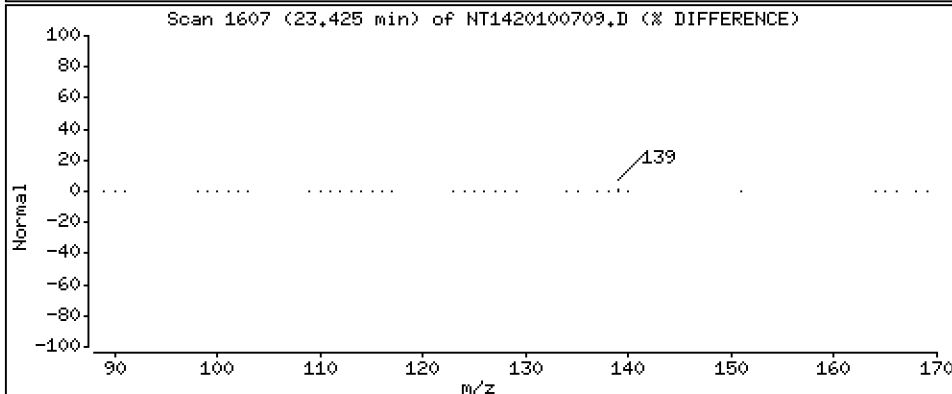
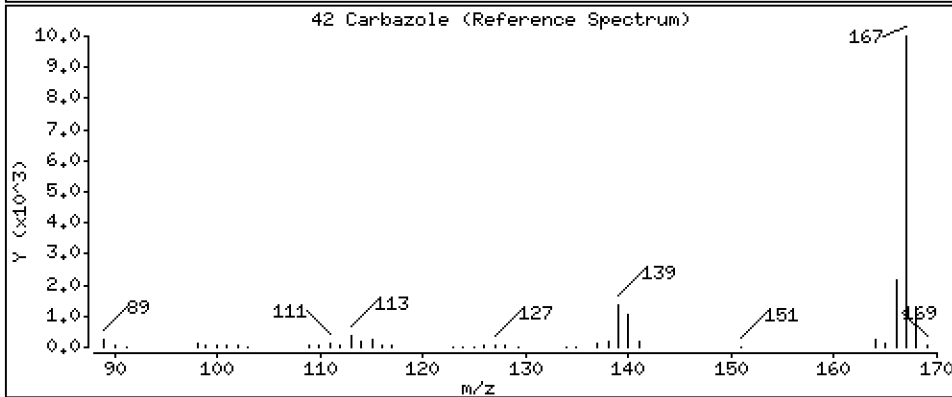
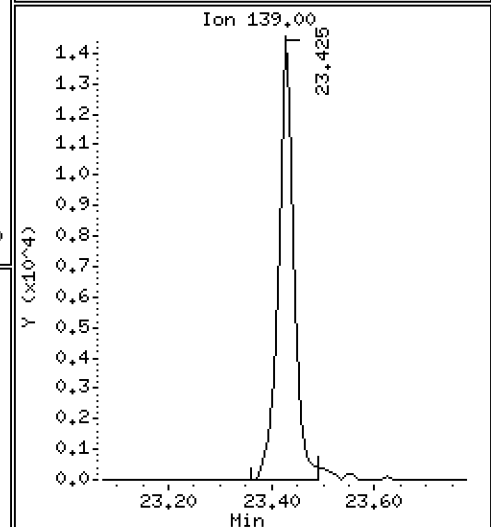
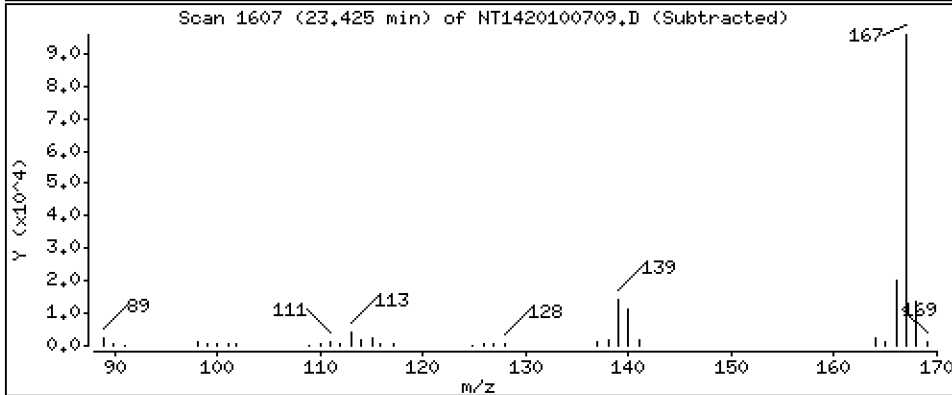
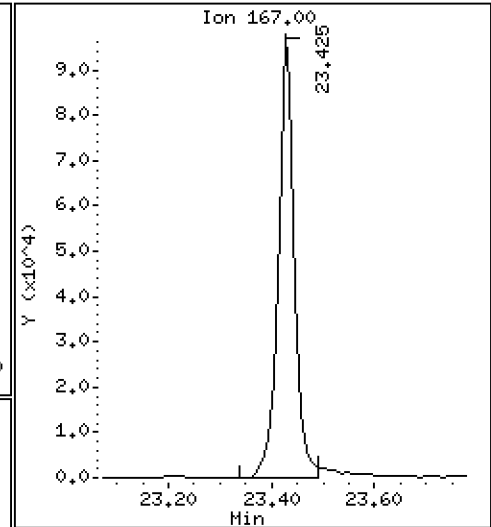
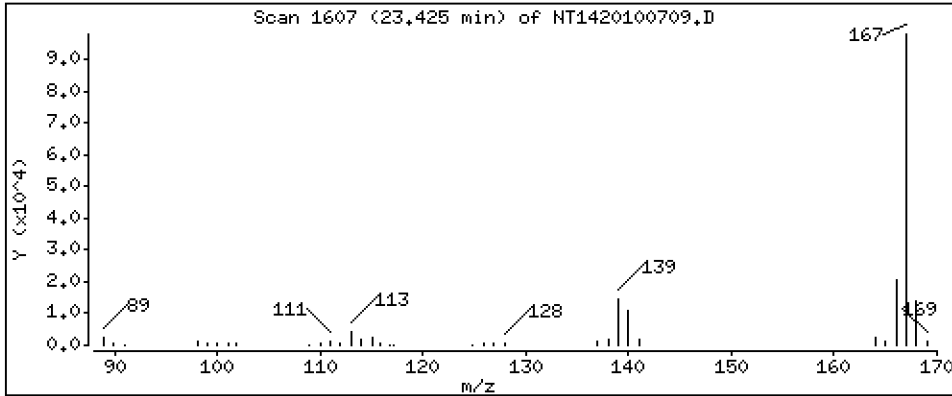
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 2,354 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

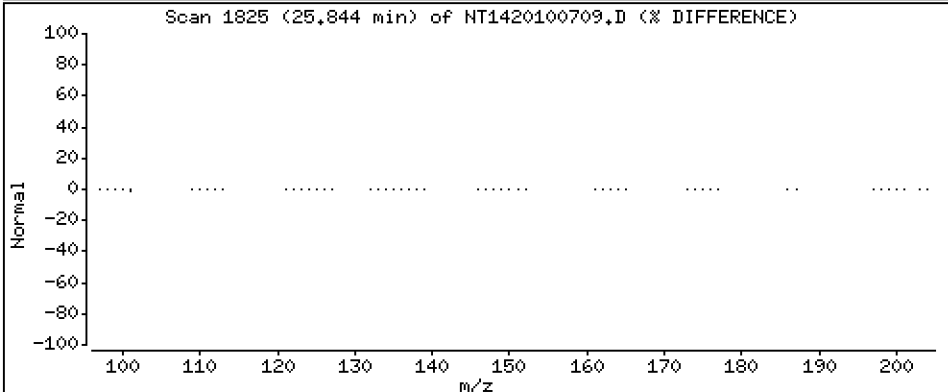
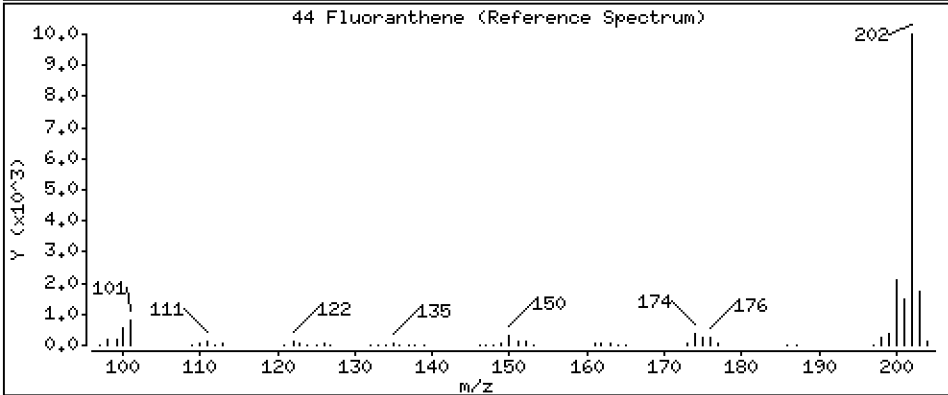
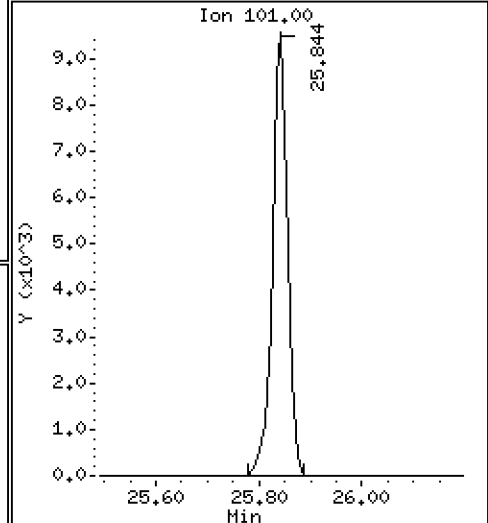
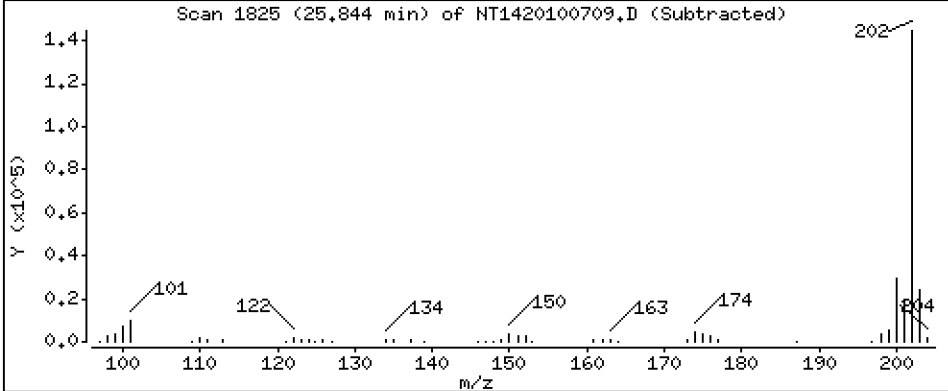
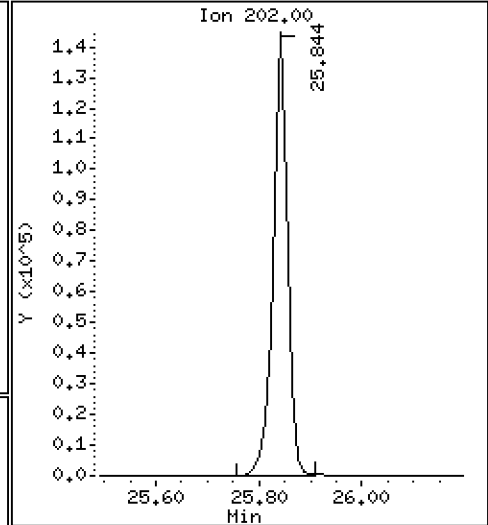
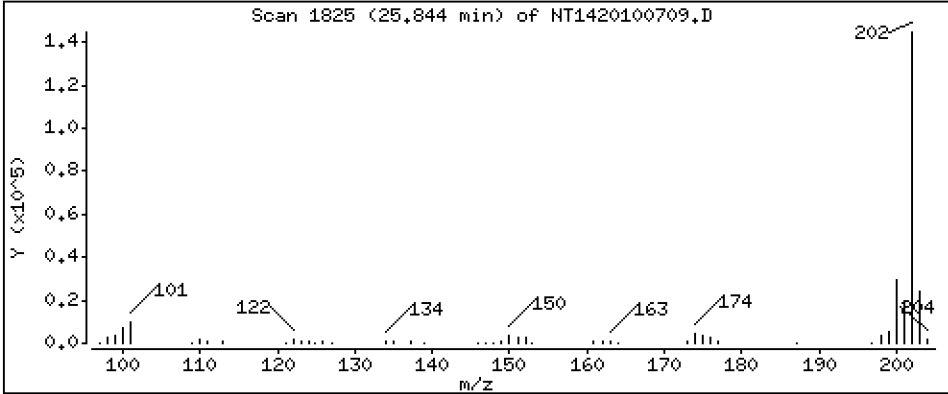
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 2,436 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

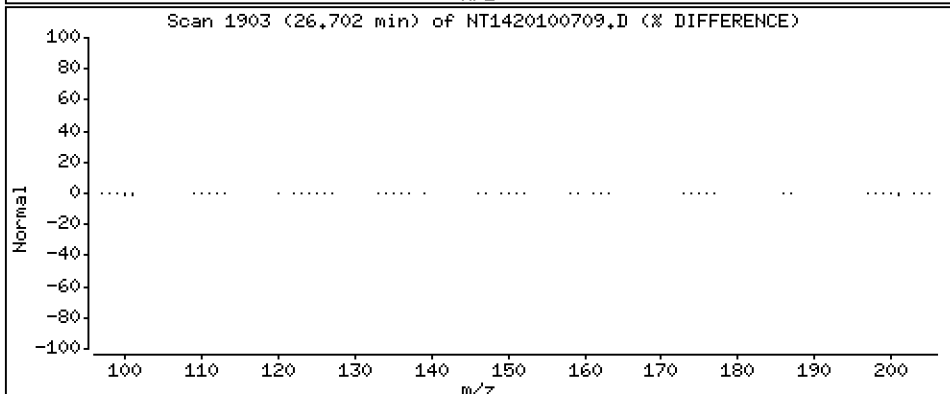
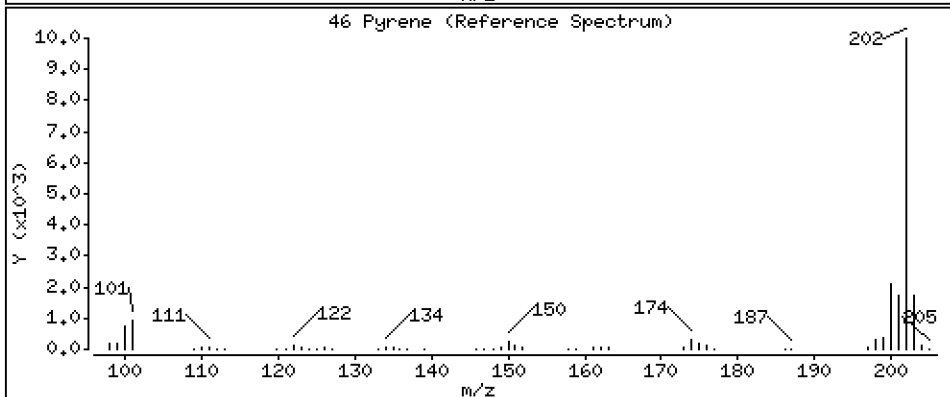
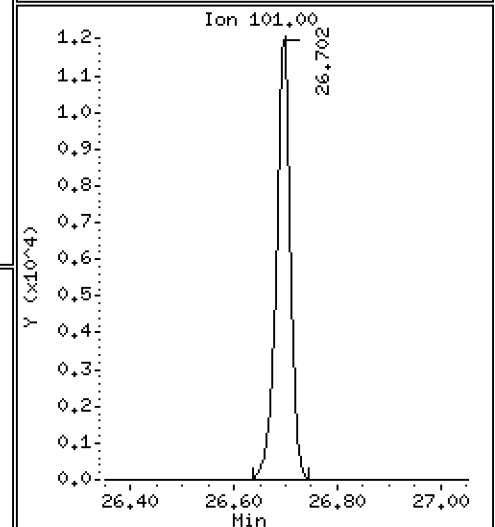
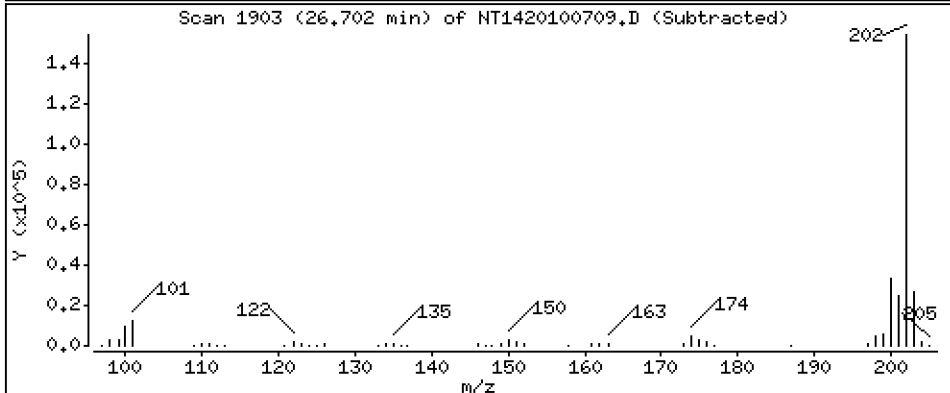
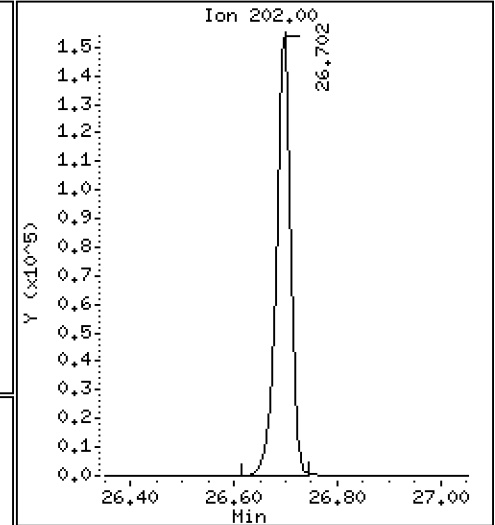
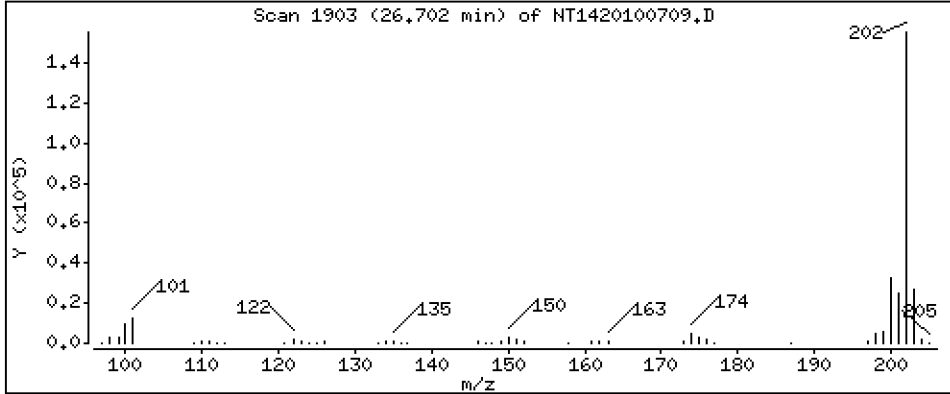
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 2,497 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

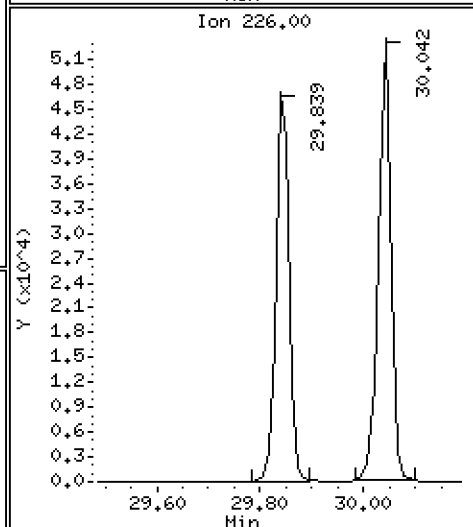
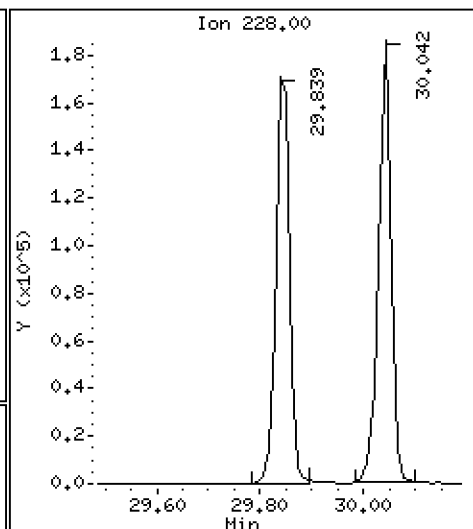
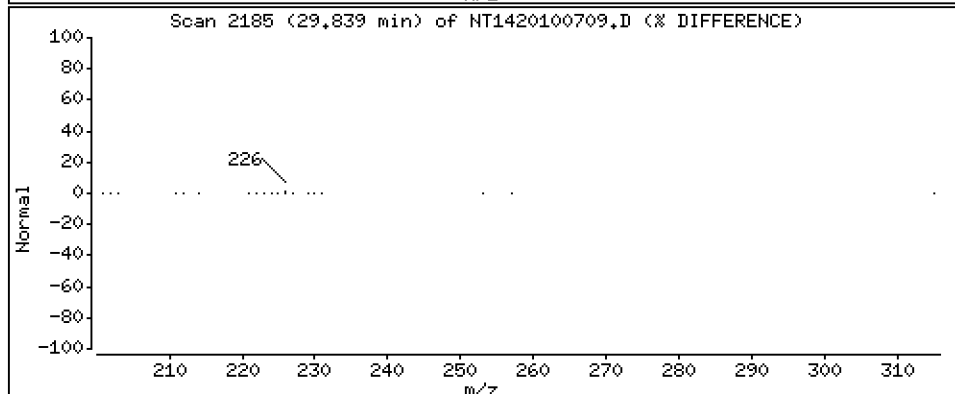
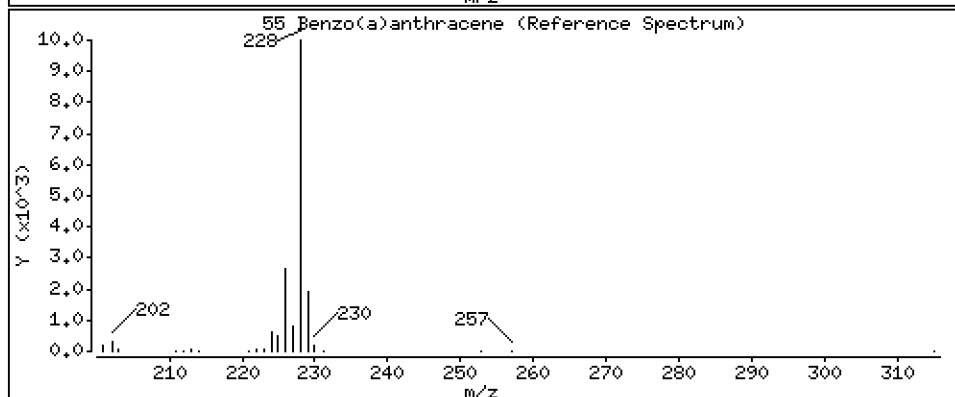
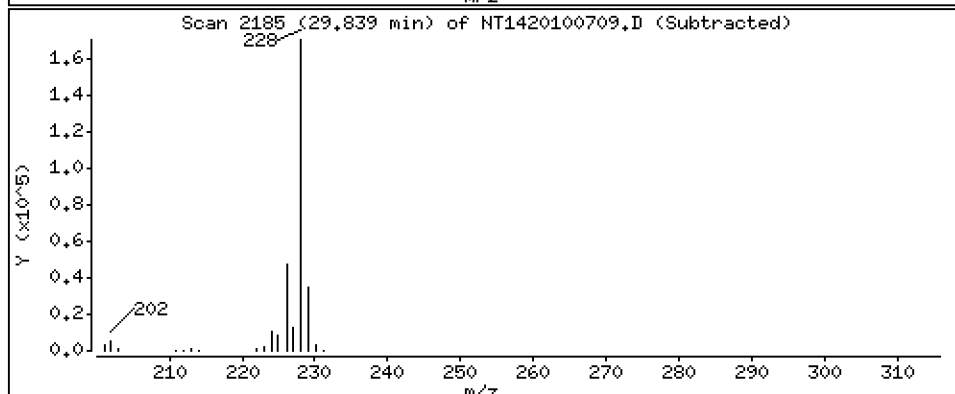
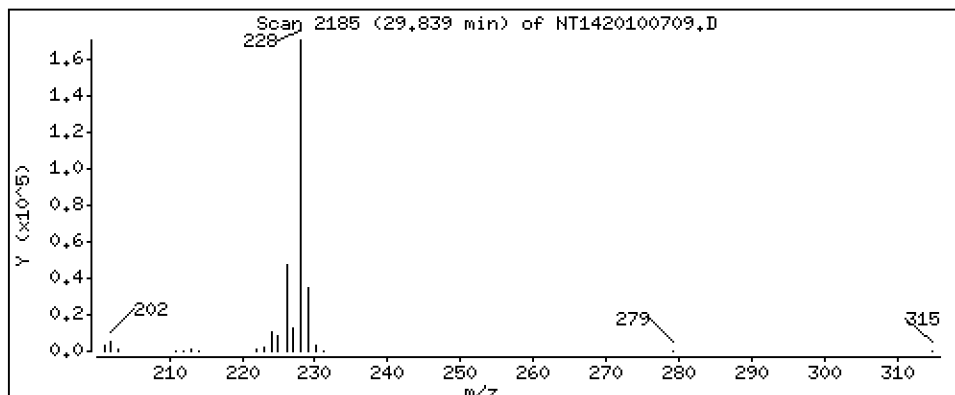
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 2,581 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

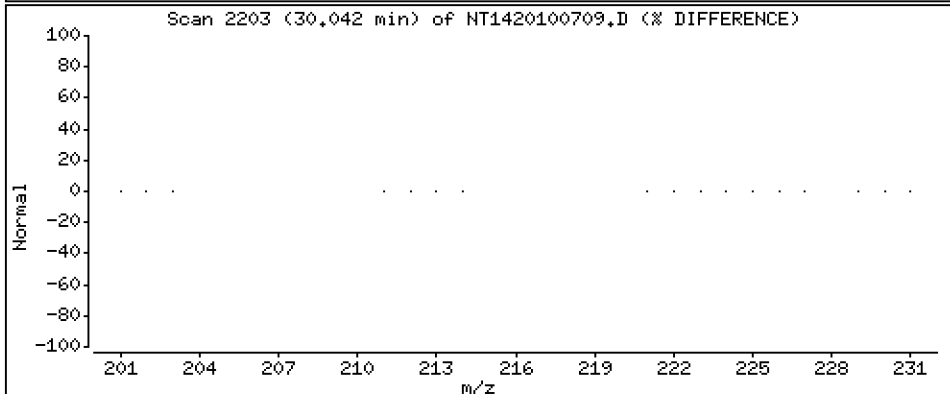
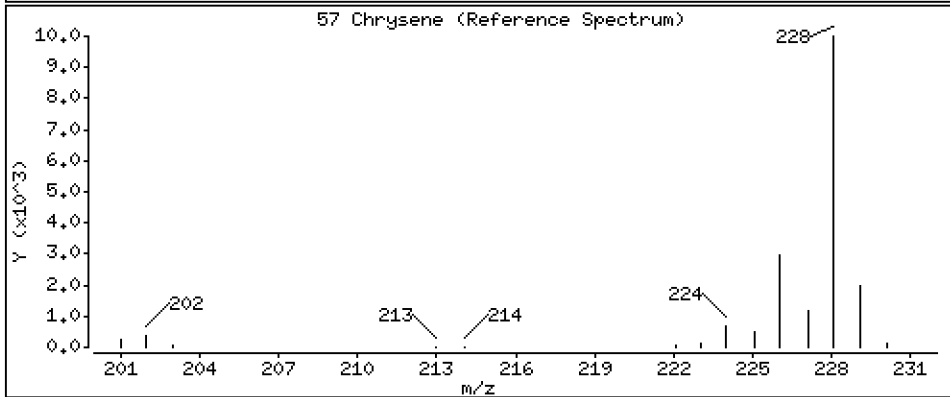
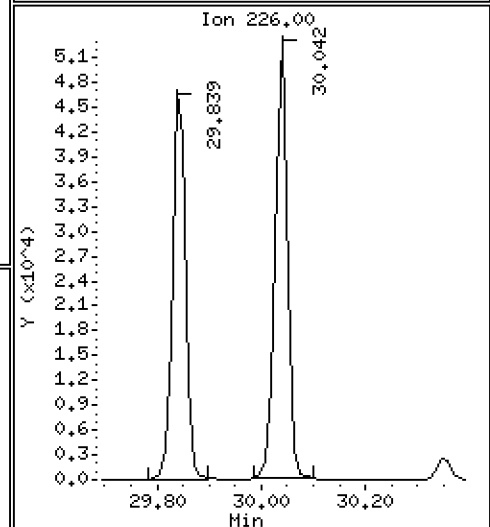
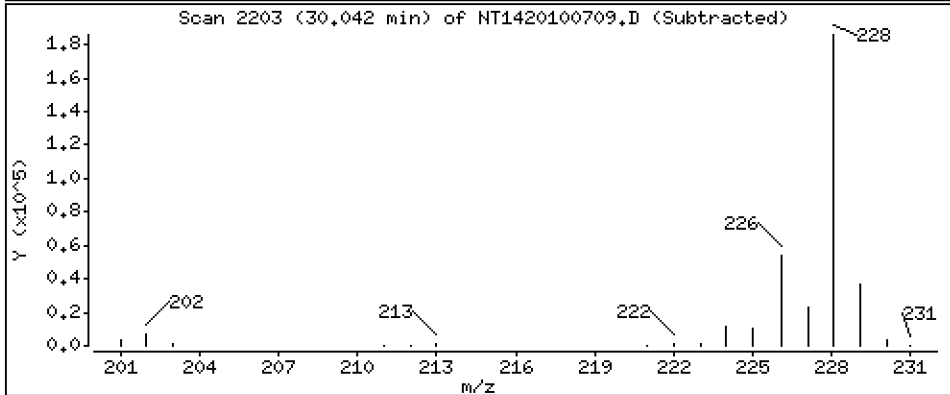
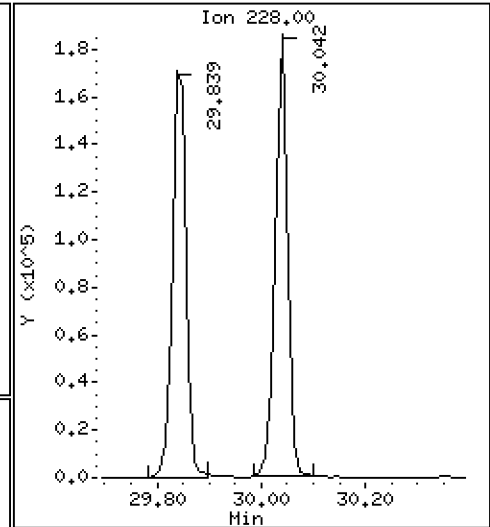
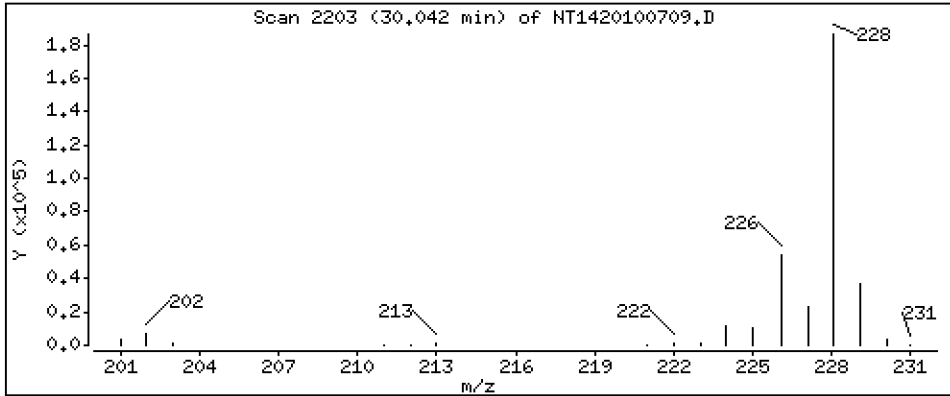
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 2,516 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

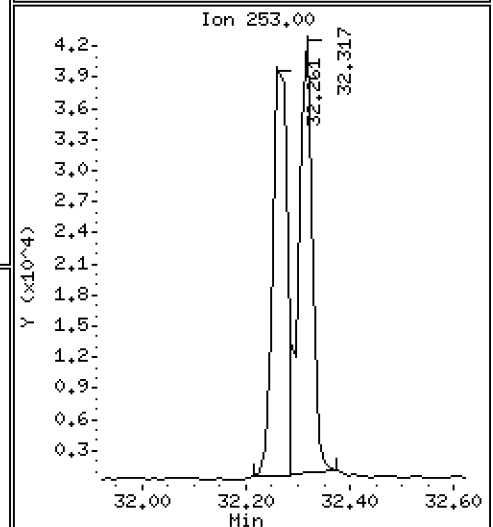
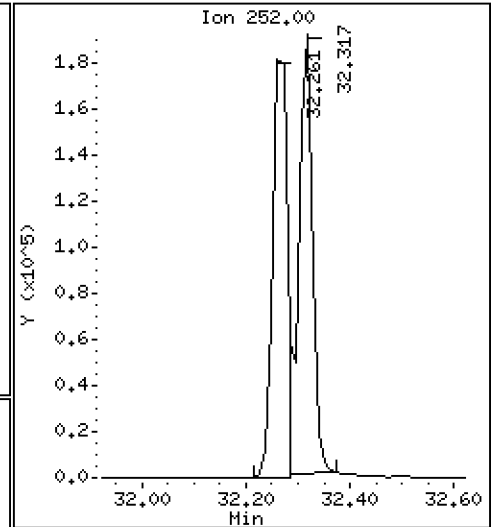
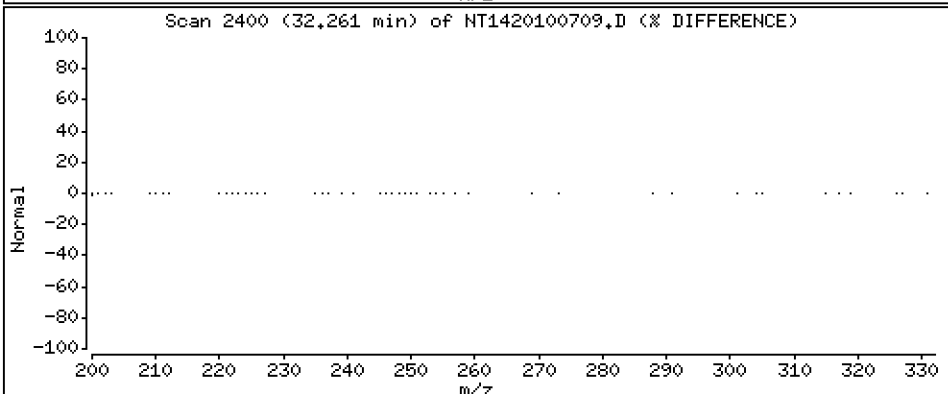
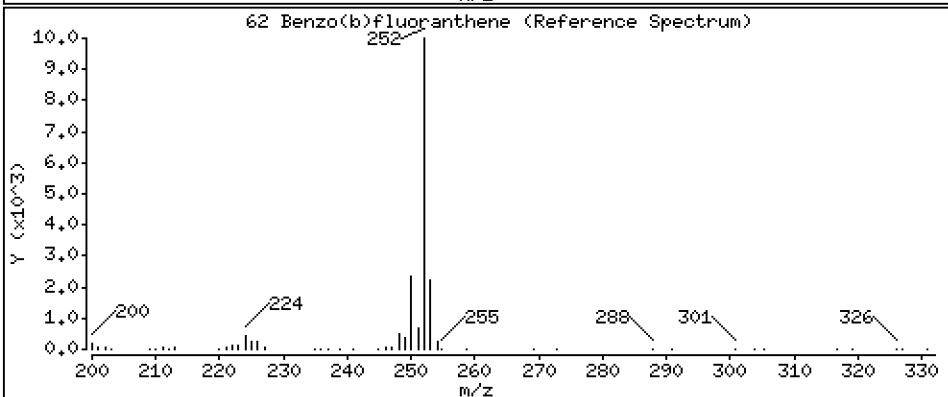
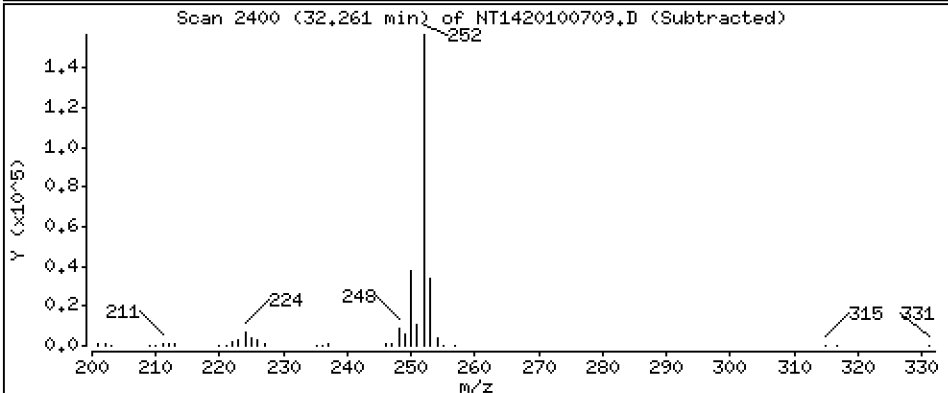
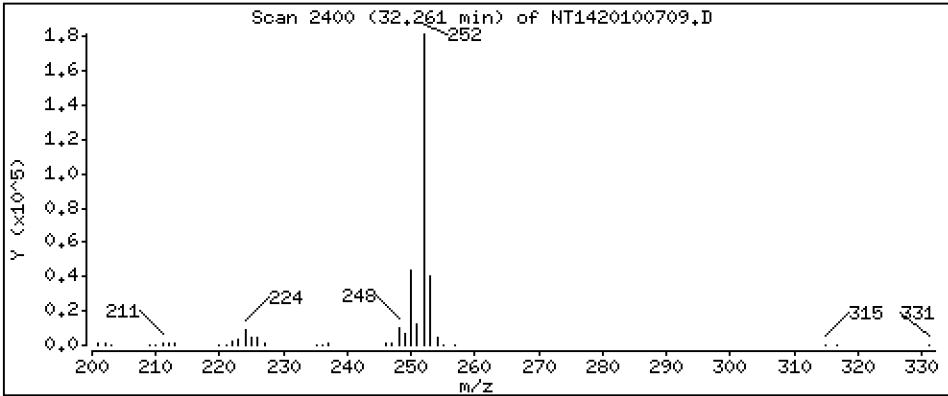
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 2,387 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

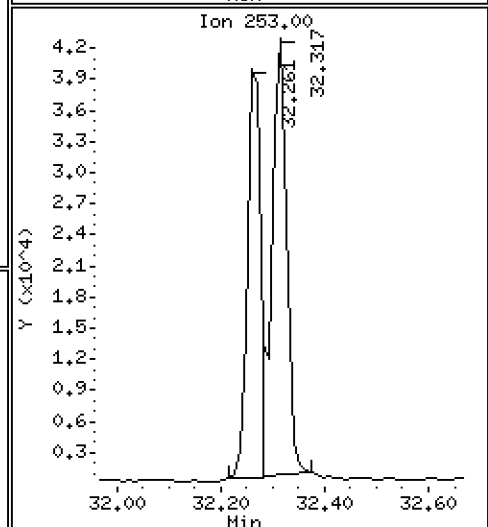
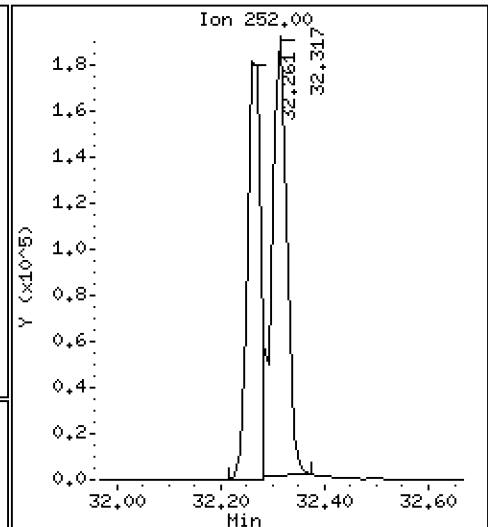
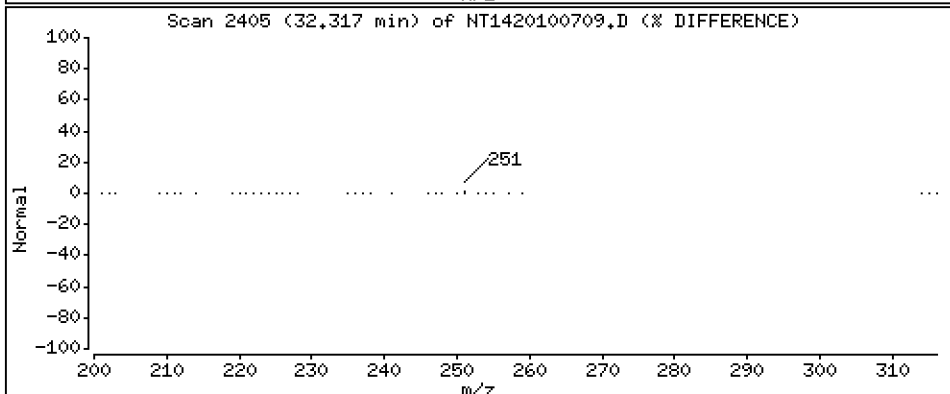
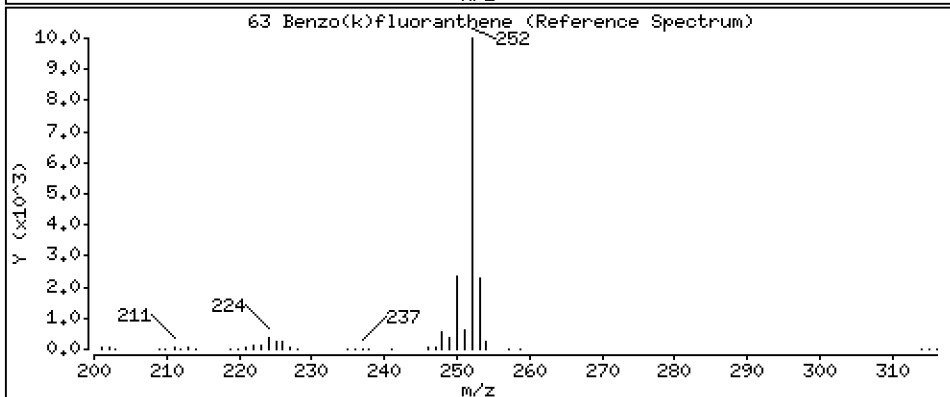
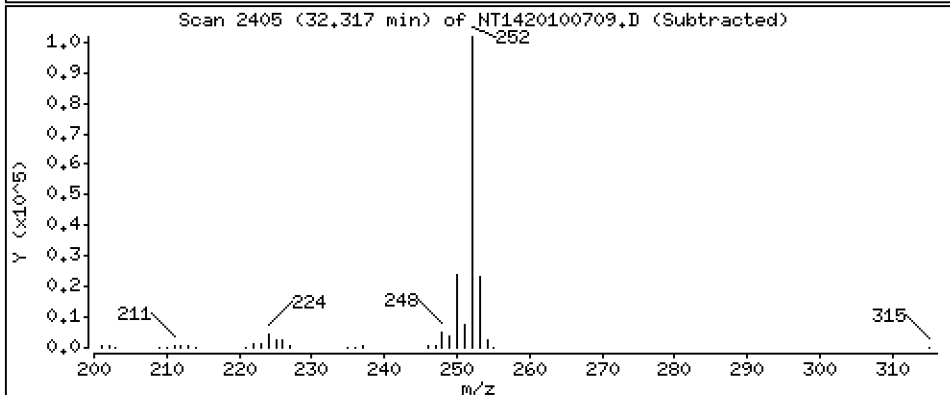
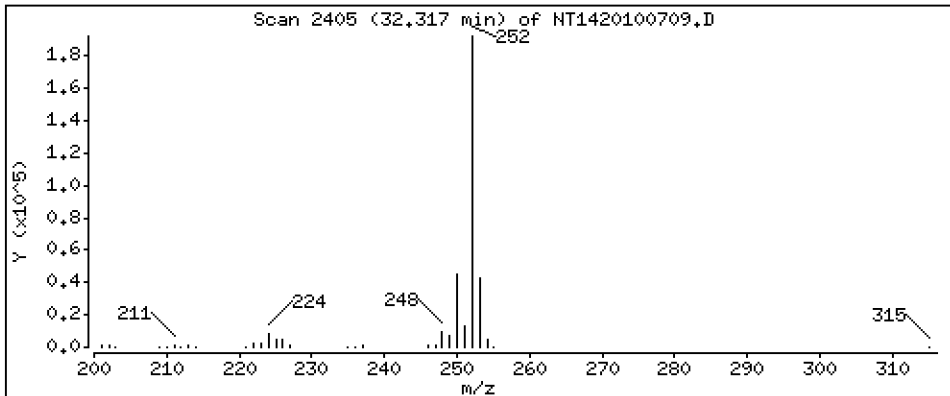
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 2,656 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

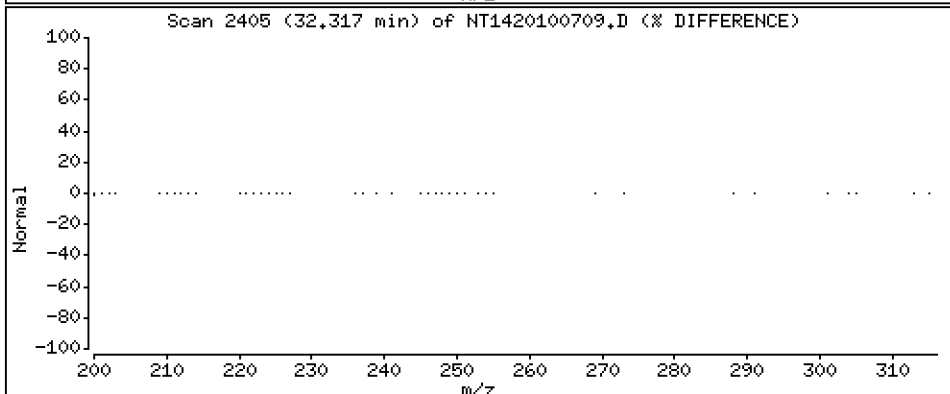
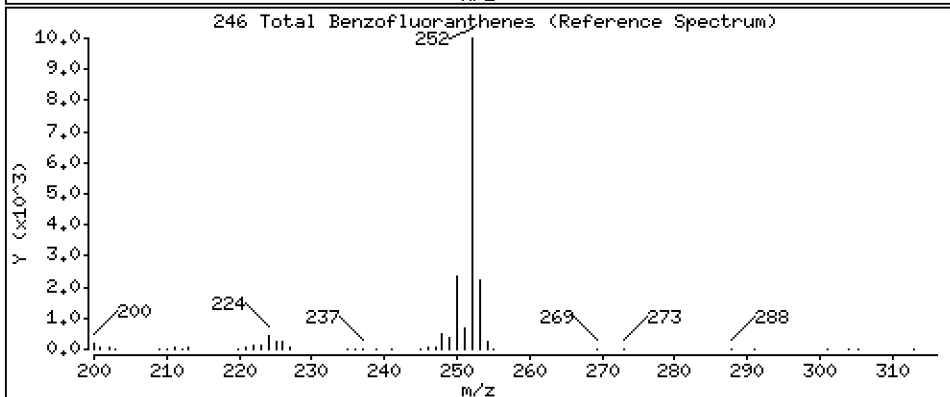
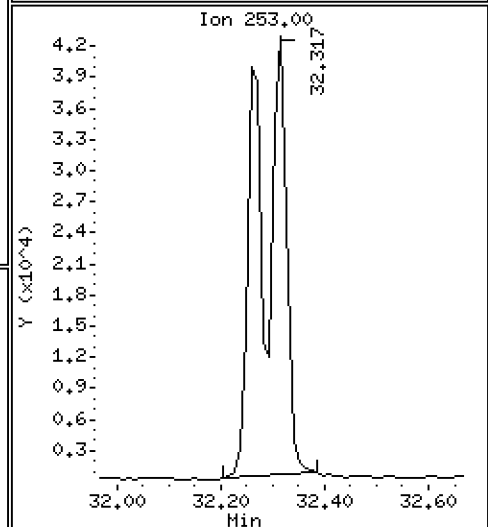
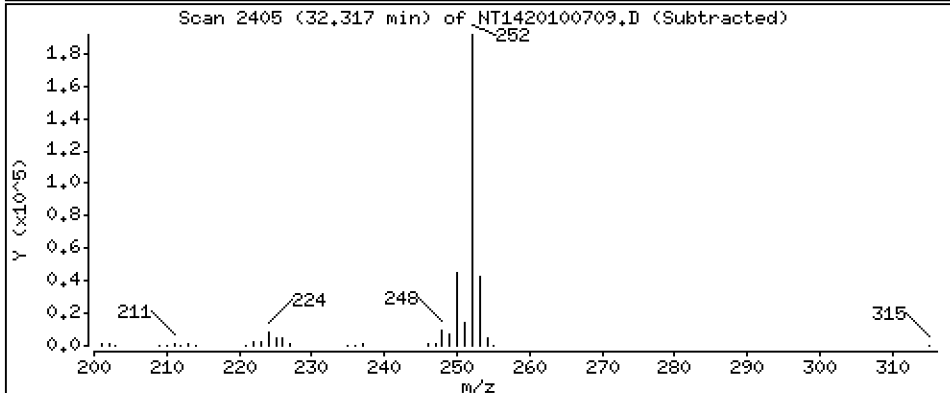
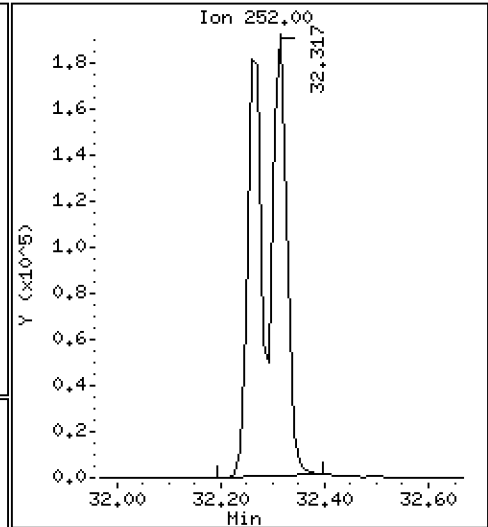
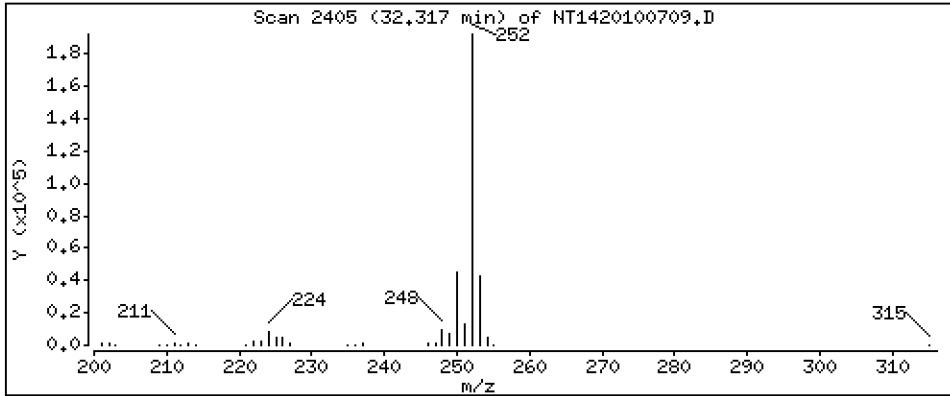
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 5,207 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

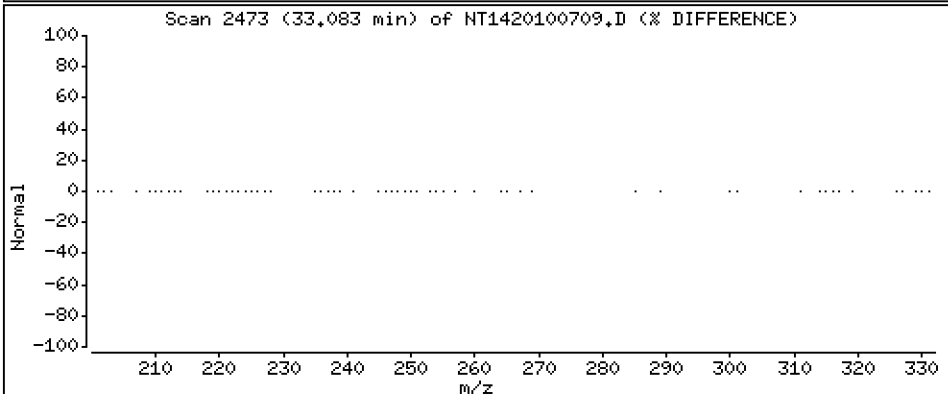
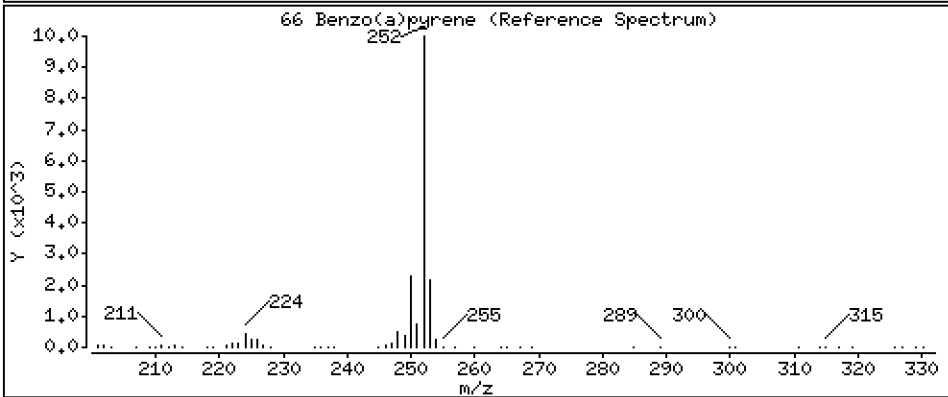
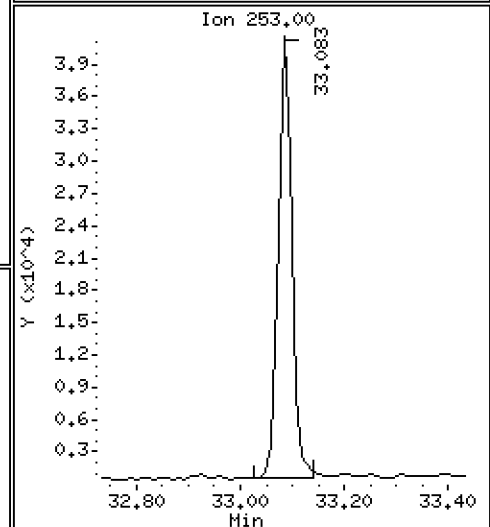
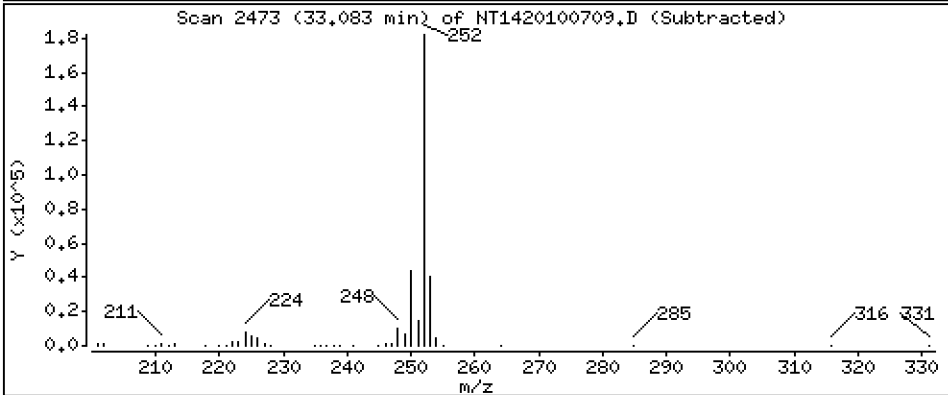
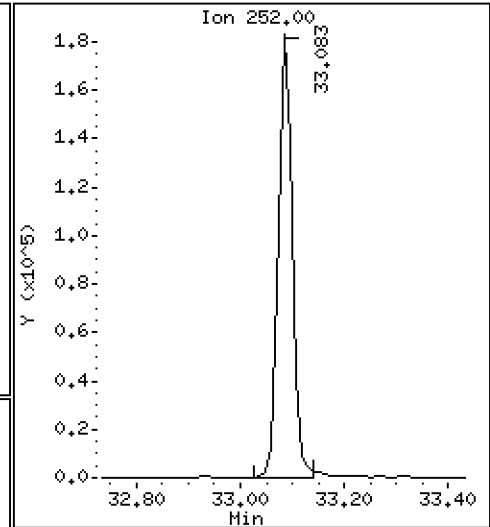
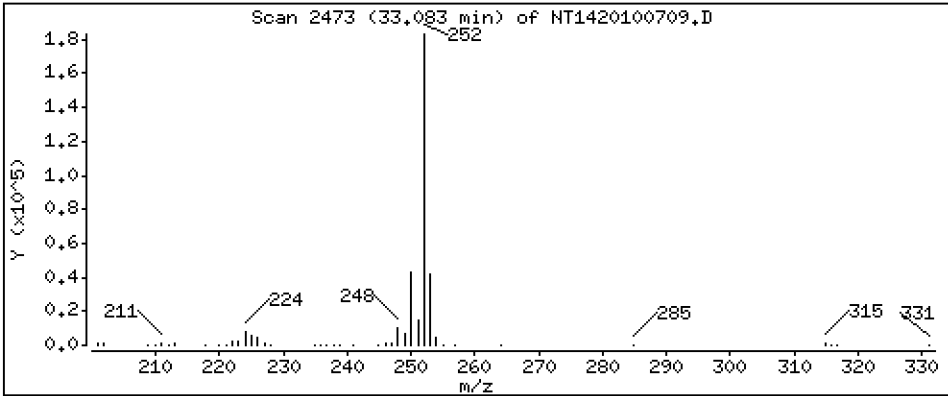
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 2,617 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

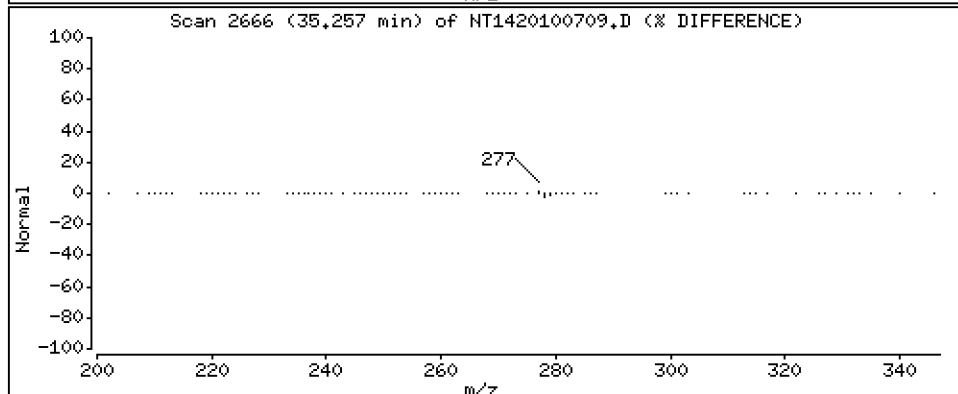
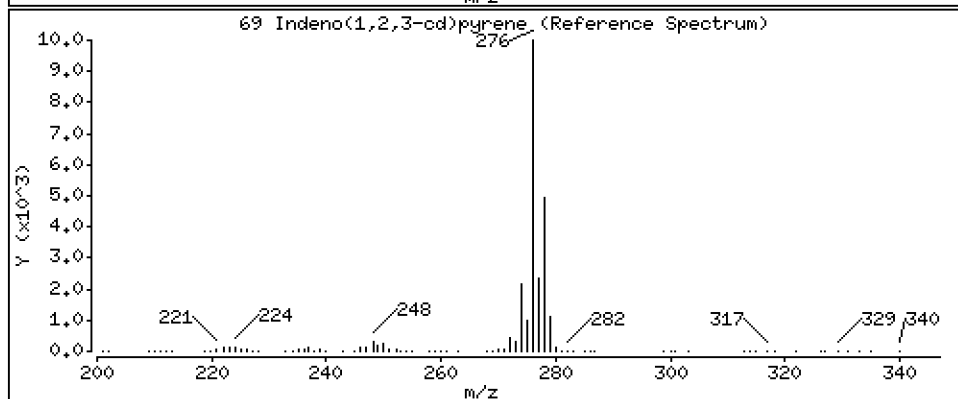
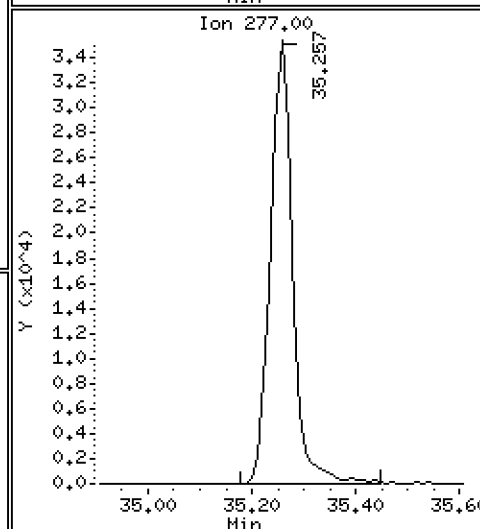
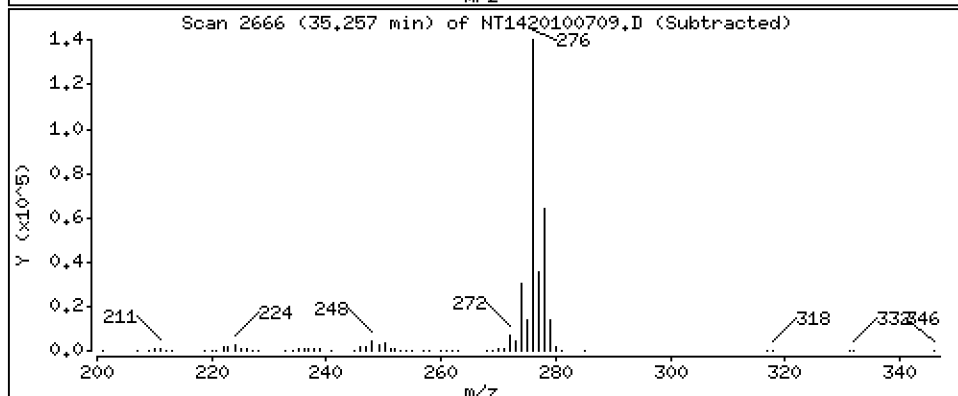
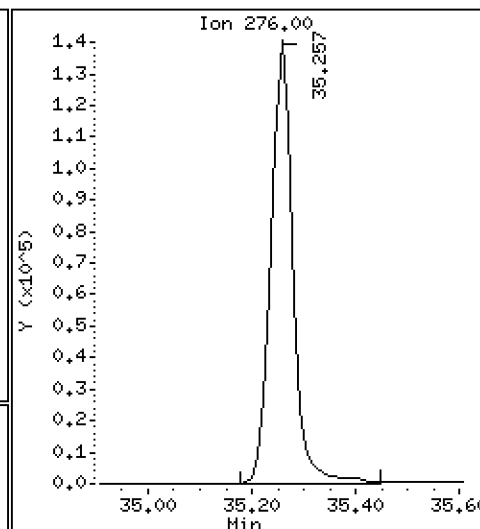
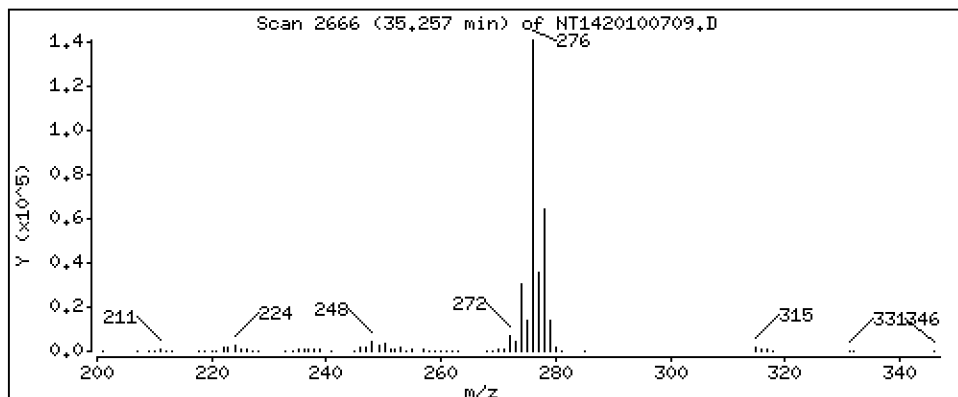
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 2,625 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

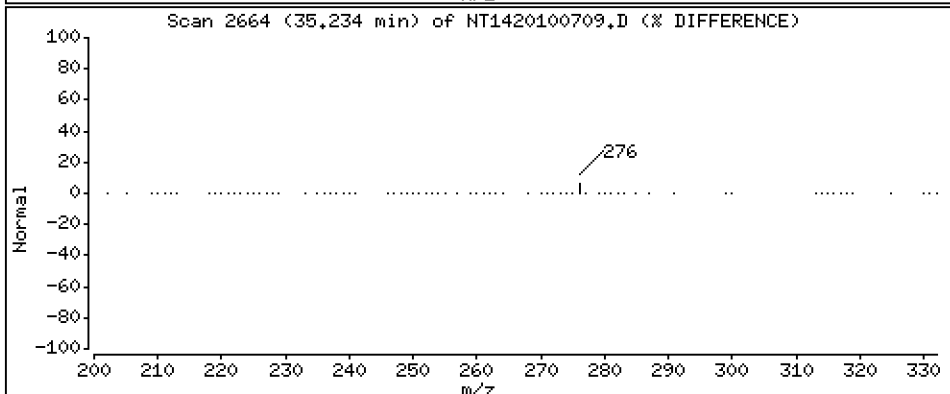
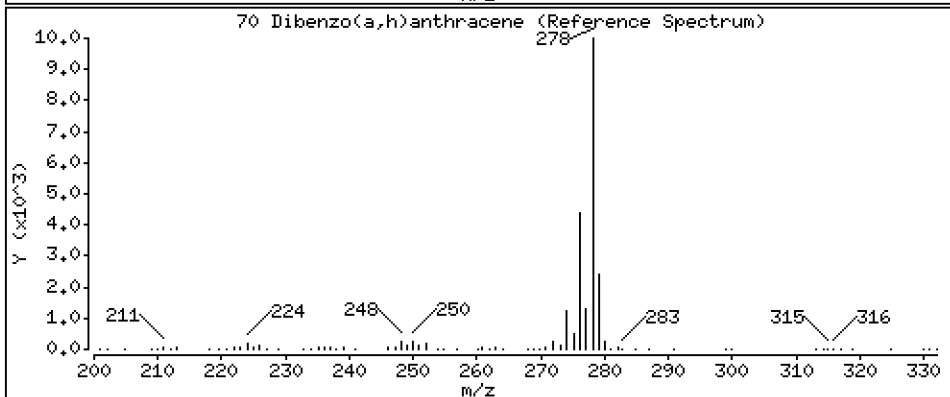
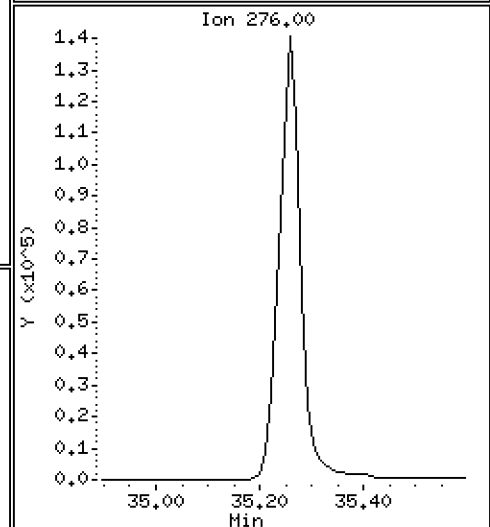
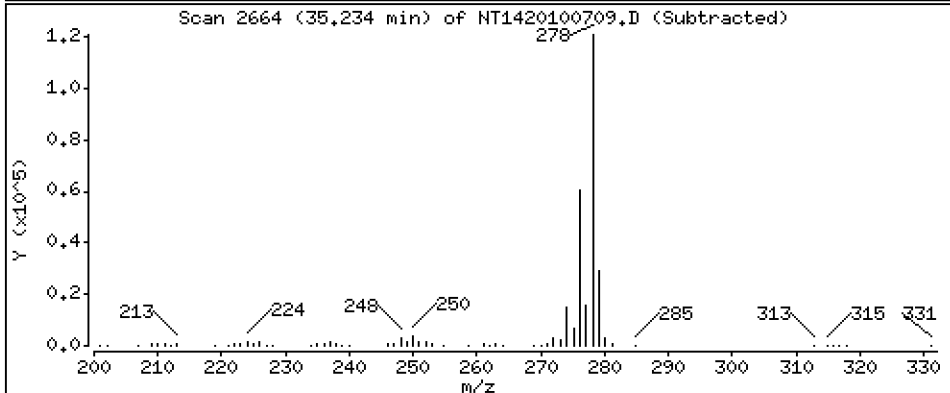
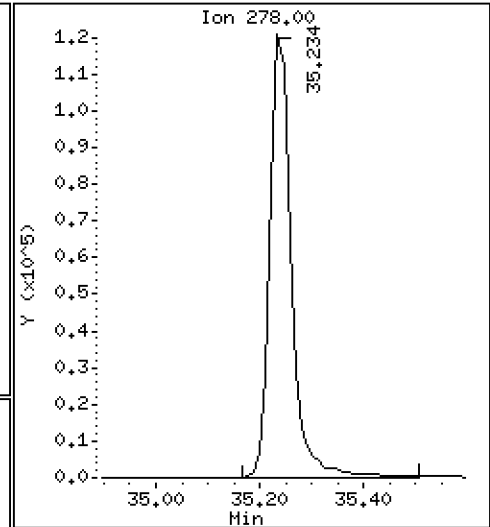
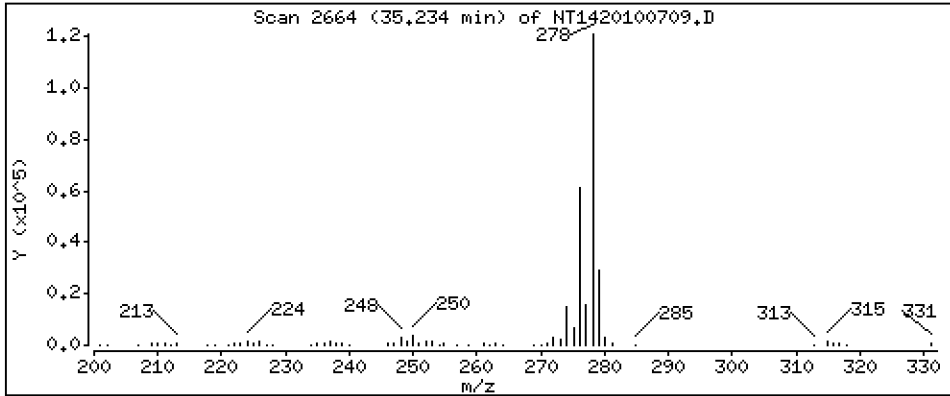
Operator: VTS

Column phase: Rxi-17Si11 MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 2,517 ug/mL



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

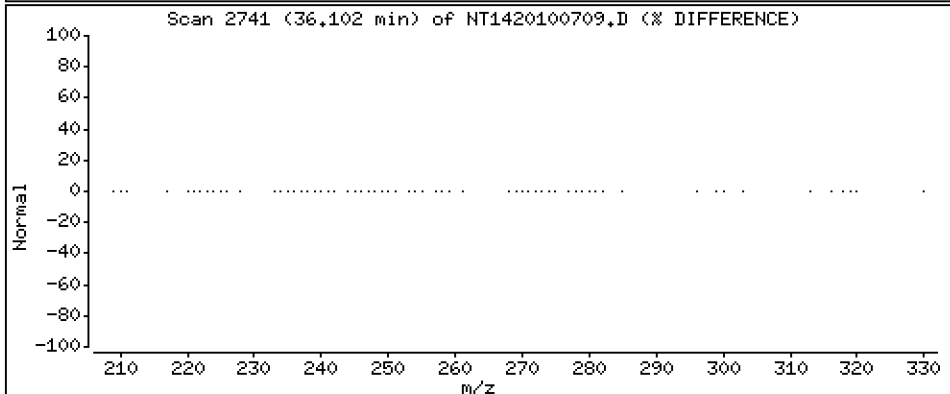
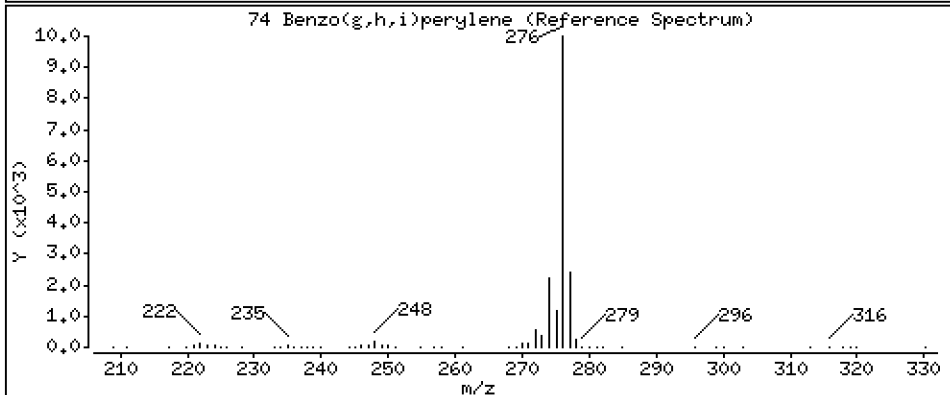
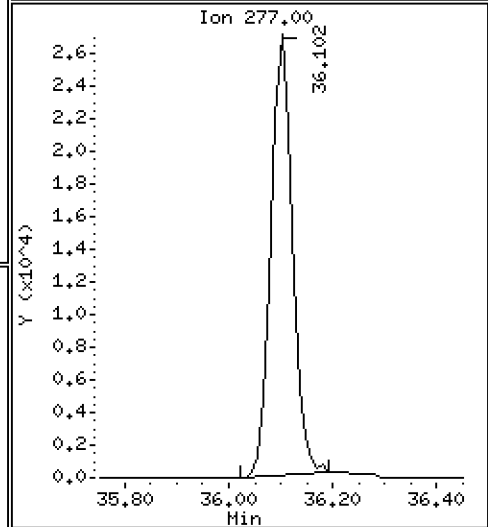
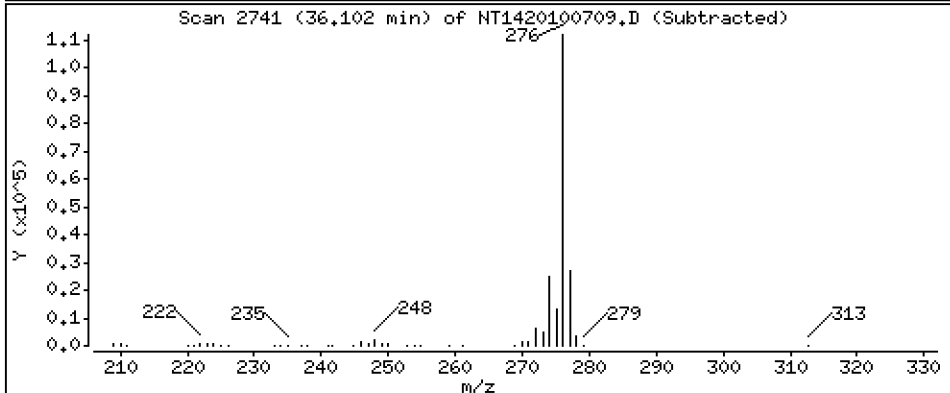
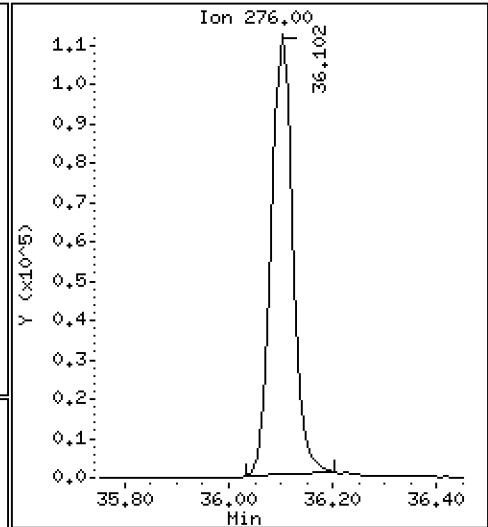
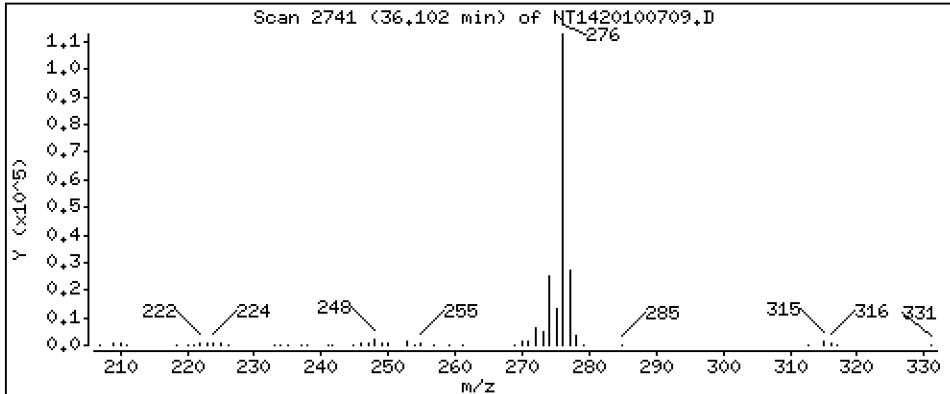
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 2,329 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100709.D
 Lab Smp Id: SIJ0085-SCV1
 Inj Date : 07-OCT-2020 16:45
 Operator : VTS
 Smp Info : SIJ0085-SCV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
1 trans-Decalin	138							
2 cis-Decalin	138							
\$ 6 Naphthalene-d8	136							
7 Naphthalene	128		11.707	11.707	(0.628)	213173	2.75707	2.757
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	132308	2.80714	2.807
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	134040	2.83535	2.835
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152		16.817	16.817	(0.903)	244094	2.87456	2.875
\$ 21 Acenaphthene-d10	164		17.135	17.103	(0.920)	20448	0.44062	0.4406(R)
22 Acenaphthene	153		17.223	17.223	(0.924)	150978	2.71407	2.714
23 Dibenzofuran	168		17.597	17.597	(0.944)	249328	3.08950	3.090
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	189405	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	186659	2.96697	2.967
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188							
36 Phenanthrene	178		22.040	22.040	(0.999)	276406	2.45432	2.454
* 250 Anthracene-d10	188		22.072	22.072	(1.000)	203362	2.00000	
37 Anthracene	178		22.138	22.138	(1.003)	263969	2.38495	2.385
42 Carbazole	167		23.425	23.425	(1.061)	225622	2.35395	2.354
43 1-Methylphenanthrene	192							
44 Fluoranthene	202		25.843	25.843	(1.171)	302784	2.43596	2.436
46 Pyrene	202		26.701	26.701	(1.210)	327478	2.49671	2.497
51 Naphthobenzothiophene	234							
55 Benzo(a)anthracene	228		29.839	29.839	(0.906)	321298	2.58148	2.581
\$ 56 Chrysene-d12	240							
57 Chrysene	228		30.042	30.042	(0.912)	311187	2.51557	2.516
62 Benzo(b)fluoranthene	252		32.260	32.272	(0.980)	335486	2.38726	2.387
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	376214	2.65607	2.656
293 Benzo(j)fluoranthene	252							
246 Total Benzofluoranthenes	252		32.317	32.317	(0.982)	678991	5.20731	5.207(M)

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264		32.925	32.925	(1.000)	288304	2.00000	
64 Benzo(e)pyrene	252		Compound Not Detected.					
66 Benzo(a)pyrene	252		33.083	33.083	(1.005)	318127	2.61683	2.617
\$ 67 Perylene-d12	264		Compound Not Detected.					
68 Perylene	252		Compound Not Detected.					
69 Indeno(1,2,3-cd)pyrene	276		35.256	35.256	(1.071)	395155	2.62484	2.625
70 Dibenzo(a,h)anthracene	278		35.234	35.245	(1.070)	334739	2.51676	2.517
74 Benzo(g,h,i)perylene	276		36.101	36.101	(1.096)	307983	2.32872	2.329 (M)

QC Flag Legend

- R - Spike/Surrogate failed recovery limits.
- M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
 Lab File ID: NT1420100709.D Calibration Time: 18:22
 Lab Smp Id: SIJ0085-SCV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	189405	-9.63
250 Anthracene-d10	192407	96204	384814	203362	5.69
251 Benzo(e)pyrene-d1	274120	137060	548240	288304	5.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100709.D

Lab ID: SIJ0085-SCV1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 16:45

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

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

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

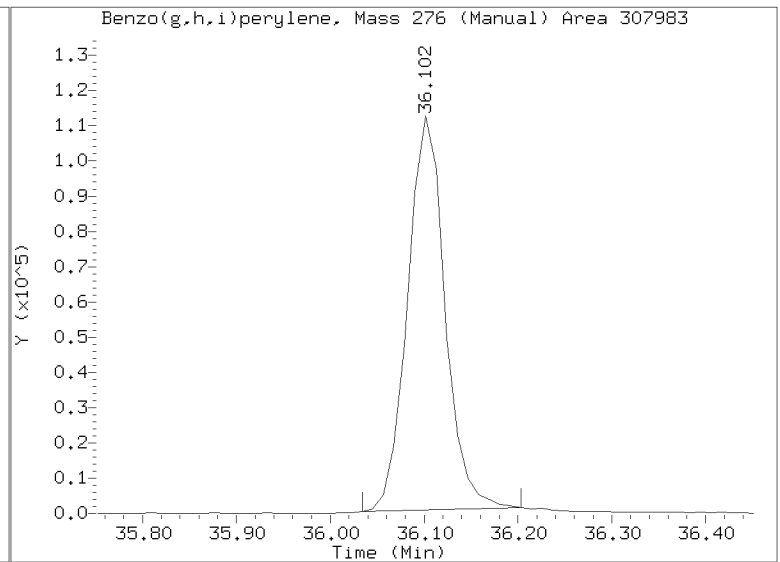
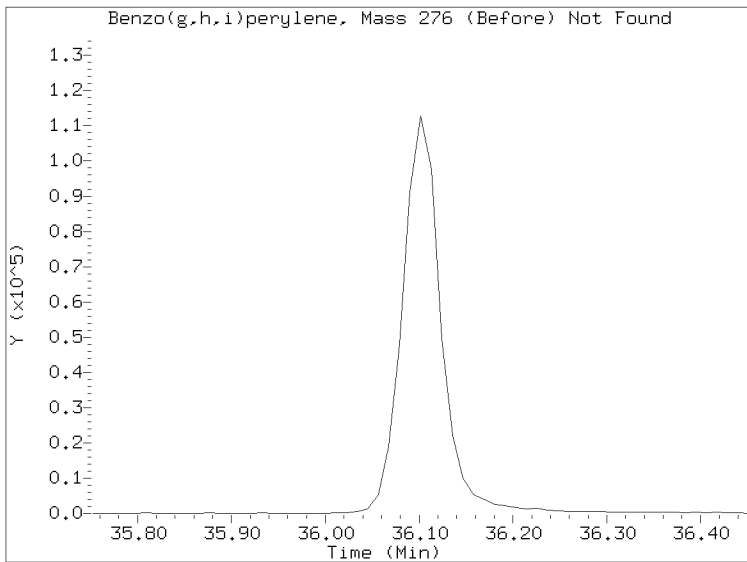
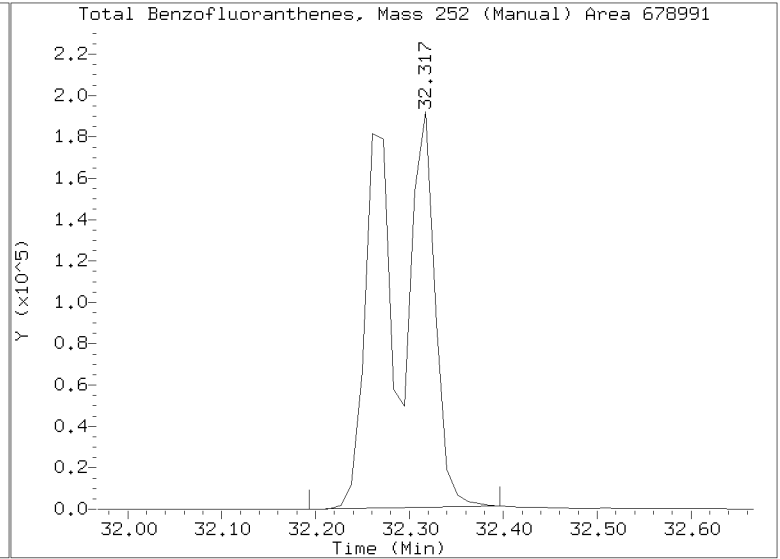
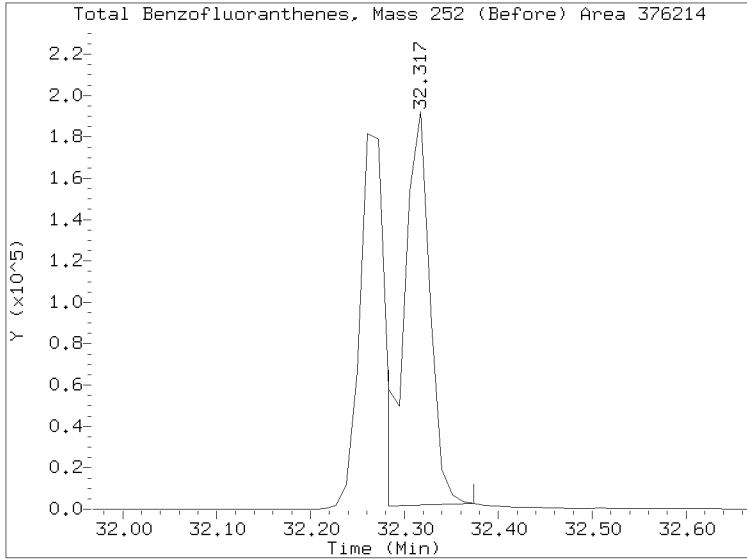
RRT check based on Ccal File: NT1420100711.D

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100709.D
Injection Date: 07-OCT-2020 16:45
Lab ID:SIJ0085-SCV1 Client ID:
Report Date: 10/09/2020 08:51





INITIAL CALIBRATION CHECK

EPA 8270E-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0121</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>NT14</u>	Calibration: <u>DJ00029</u>
Lab File ID: <u>NT1420100711.D</u>	Calibration Date: <u>10/07/2020</u>
Sequence: <u>SIJ0085</u>	Injection Date: <u>10/07/20</u>
Lab Sample ID: <u>SIJ0085-ICV1</u>	Injection Time: <u>18:22</u>
Sequence Name: <u>Initial Cal Check</u>	

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
trans-Decalin	A	2.5000	2.9	0.0835887	0.0955285		14.3	+/-20
cis-Decalin	A	2.5000	2.8	0.0628966	0.0713296		13.4	+/-20
Naphthalene	A	2.5000	2.6	0.8164379	0.8491651		4.0	+/-20
1-Methylnaphthalene	A	2.5000	2.6	0.5226651	0.5192618		3.8	+/-20
2-Methylnaphthalene	A	2.5000	2.7	0.4976918	0.5288803		6.3	+/-20
Biphenyl	A	2.5000	2.6	0.7490419	0.7738850		3.3	+/-20
2,6-Dimethylnaphthalene	A	2.5000	2.6	0.5468360	0.5738964		5.0	+/-20
Acenaphthylene	A	2.5000	2.6	0.8966517	0.9243612		3.1	+/-20
Acenaphthene	A	2.5000	2.6	0.5873971	0.6113323		4.1	+/-20
Dibenzofuran	A	2.5000	2.6	0.8521596	0.8977156		5.4	+/-20
2,3,5-Trimethylnaphthalene	A	2.5000	2.6	0.5544134	0.5829882		5.2	+/-20
Fluorene	A	2.5000	2.6	0.6643144	0.6937422		4.4	+/-20
Benzo(b)thiophene	A	2.5000	2.6	0.6860043	0.7008111		2.2	+/-20
Phenanthrene	A	2.5000	2.5	1.1075820	1.1120140		0.4	+/-20
Anthracene	A	2.5000	2.5	1.0885140	1.0878480		-0.08	+/-20
Carbazole	A	2.5000	2.6	0.9426380	0.9639982		2.3	+/-20
1-Methylphenanthrene	A	2.5000	2.6	0.8129613	0.8462769		4.1	+/-20
Fluoranthene	A	2.5000	2.5	1.2224260	1.2331190		0.9	+/-20
Dibenzothiophene	A	2.5000	2.6	0.9560816	0.9864234		3.2	+/-20
Pyrene	A	2.5000	2.5	1.2899540	1.2916370		0.1	+/-20
Benzo(a)anthracene	A	2.5000	2.5	0.8634119	0.8737341		1.2	+/-20
Chrysene	A	2.5000	2.5	0.8581534	0.8727973		1.7	+/-20
Benzo(b)fluoranthene	A	2.5000	2.5	0.9748863	0.9905005		1.6	+/-20
Benzo(j)fluoranthene	A	2.5000	2.5	0.8589085	0.8672435		1.0	+/-20
Benzo(k)fluoranthene	A	2.5000	2.5	0.9825948	0.9804553		-0.2	+/-20
Benzo(a)fluoranthene, Total	A	7.5000	7.7	0.9045439	0.9266316		2.4	+/-20
Benzo(e)pyrene	A	2.5000	2.6	0.8926013	0.9121144		2.2	+/-20
Benzo(a)pyrene	A	2.5000	2.5	0.8433439	0.8549599		1.4	+/-20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.5	1.0443470	1.0404350		-0.4	+/-20
Dibenzo(a,h)anthracene	A	2.5000	2.5	0.9226661	0.9252211		0.3	+/-20
Benzo(g,h,i)perylene	A	2.5000	2.6	0.9174617	0.9596381		4.6	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,i\20201007,b\NT1420100711.D

Date : 07-OCT-2020 18:22

Client ID:

Sample Info: S1J0085-ICW1

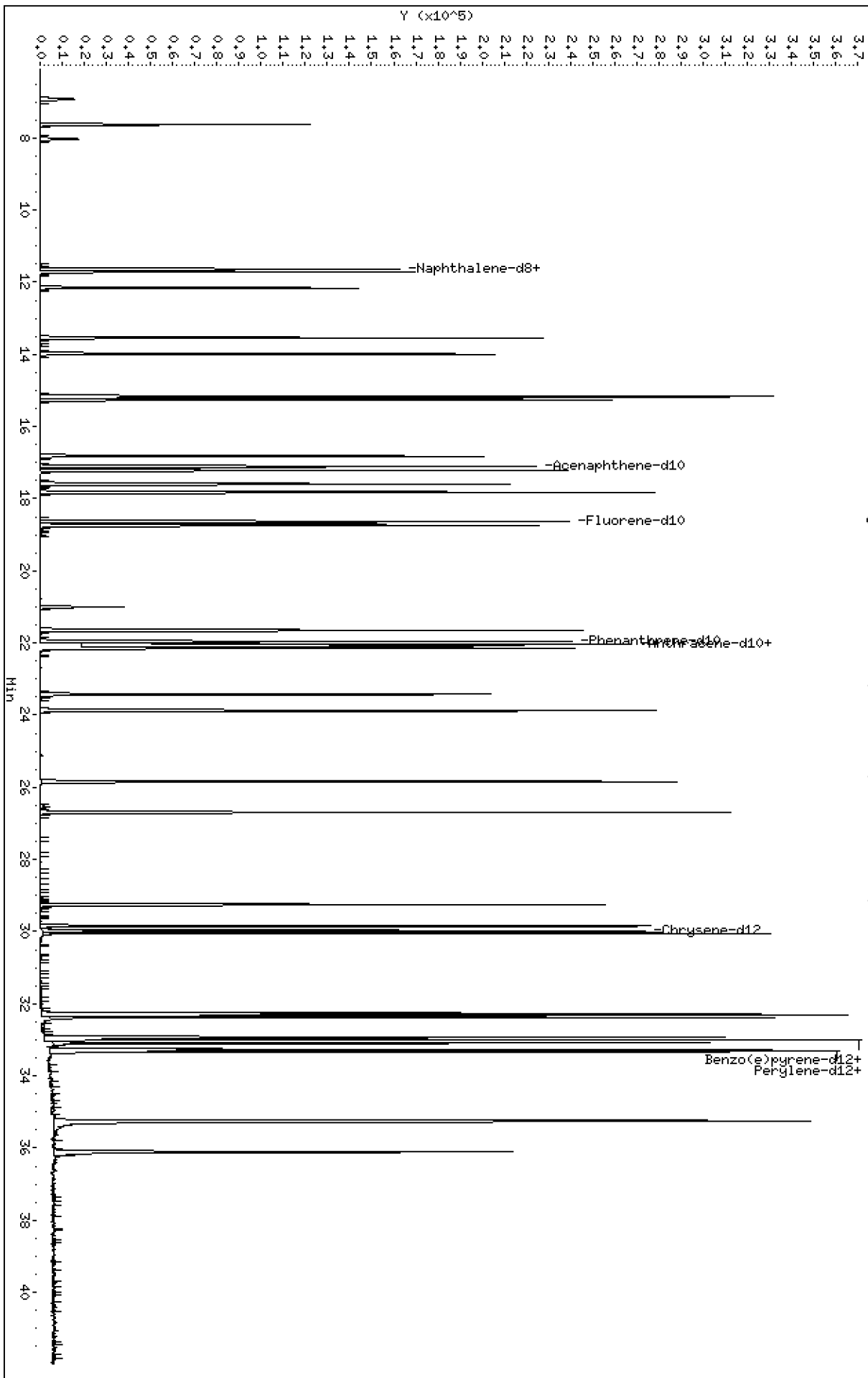
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Instrument: nt14,i

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100711.D
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 Inj Date : 07-OCT-2020 18:22
 Operator : VTS
 Smp Info : SIJ0085-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
 Meth Date : 09-Oct-2020 08:45 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Continuing Calibration Sample
 Compound Sublist: TARGETS.sub

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
1 trans-Decalin	138		6.934	6.934	(0.372)	25028	2.50000	2.857
2 cis-Decalin	138		8.034	8.034	(0.431)	18688	2.50000	2.835
\$ 6 Naphthalene-d8	136		11.641	11.641	(0.625)	225370	2.50000	2.635
7 Naphthalene	128		11.707	11.707	(0.628)	222477	2.50000	2.600
12 Benzo(b)thiophene	134		12.157	12.157	(0.652)	183609	2.50000	2.554
16 2-Methylnaphthalene	141		13.542	13.542	(0.727)	138564	2.50000	2.657
17 1-methylnaphthalene	141		13.992	13.992	(0.751)	136044	2.50000	2.594
18 Biphenyl	154		15.179	15.179	(0.815)	202754	2.50000	2.583
19 2,6-Dimethylnaphthalene	156		15.256	15.256	(0.819)	150358	2.50000	2.624
20 Acenaphthylene	152		16.817	16.817	(0.903)	242178	2.50000	2.577
\$ 21 Acenaphthene-d10	164		17.103	17.103	(0.918)	133712	2.50000	2.604
22 Acenaphthene	153		17.223	17.223	(0.924)	160166	2.50000	2.602
23 Dibenzofuran	168		17.597	17.597	(0.944)	235197	2.50000	2.634
24 1,6,7-Trimethylnaphthalene	170		17.828	17.828	(0.957)	152740	2.50000	2.629
* 25 Fluorene-d10	176		18.632	18.632	(1.000)	209596	2.00000	
26 Fluorene	166		18.746	18.746	(1.006)	181757	2.50000	2.611
30 Dibenzothiophene	184		21.648	21.648	(1.162)	258438	2.50000	2.579
\$ 35 Phenanthrene-d10	188		21.963	21.963	(0.995)	241790	2.50000	2.624
36 Phenanthrene	178		22.040	22.040	(0.999)	267449	2.50000	2.510
* 250 Anthracene-d10	188		22.072	22.072	(1.000)	192407	2.00000	
37 Anthracene	178		22.138	22.138	(1.003)	261637	2.50000	2.498
42 Carbazole	167		23.425	23.425	(1.061)	231850	2.50000	2.557
43 1-Methylphenanthrene	192		23.875	23.875	(1.082)	203537	2.50000	2.602
44 Fluoranthene	202		25.843	25.843	(1.171)	296576	2.50000	2.522
46 Pyrene	202		26.701	26.701	(1.210)	310650	2.50000	2.503
51 Naphthobenzothiophene	234		29.256	29.256	(1.325)	291503	2.50000	2.577
55 Benzo(a)anthracene	228		29.839	29.839	(0.906)	299385	2.50000	2.530
\$ 56 Chrysene-d12	240		29.974	29.974	(0.910)	232649	2.50000	2.489
57 Chrysene	228		30.042	30.042	(0.912)	299064	2.50000	2.543
62 Benzo(b)fluoranthene	252		32.272	32.272	(0.980)	339395	2.50000	2.540 (M)
63 Benzo(k)fluoranthene	252		32.317	32.317	(0.982)	335953	2.50000	2.495 (M)
293 Benzo(j)fluoranthene	252		32.373	32.373	(0.983)	297161	2.50000	2.524 (M)
246 Total Benzofluoranthenes	252		32.317	32.317	(0.982)	952531	7.50000	7.683 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 251 Benzo(e)pyrene-d12	264	32.925	32.925	(1.000)	274120	2.00000		
64 Benzo(e)pyrene	252	32.993	32.993	(1.002)	312536	2.50000	2.555	
66 Benzo(a)pyrene	252	33.083	33.083	(1.005)	292952	2.50000	2.534	
\$ 67 Perylene-d12	264	33.263	33.263	(1.010)	287747	2.50000	2.539	
68 Perylene	252	33.319	33.319	(1.012)	312709	2.50000	2.576	
69 Indeno(1,2,3-cd)pyrene	276	35.256	35.256	(1.071)	356505	2.50000	2.491 (M)	
70 Dibenzo(a,h)anthracene	278	35.245	35.245	(1.070)	317027	2.50000	2.507 (M)	
74 Benzo(g,h,i)perylene	276	36.101	36.101	(1.096)	328820	2.50000	2.615	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
Lab File ID: NT1420100711.D Calibration Time: 10:24
Lab Smp Id: SIJ0085-ICV1
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201007.b\ALKYLPNA.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	209596	104798	419192	209596	0.00
250 Anthracene-d10	192407	96204	384814	192407	0.00
251 Benzo(e)pyrene-d1	274120	137060	548240	274120	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.63	18.13	19.13	18.63	0.00
250 Anthracene-d10	22.07	21.57	22.57	22.07	0.00
251 Benzo(e)pyrene-d1	32.93	32.43	33.43	32.93	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 - NT1420100711.D

Lab ID: SIJ0085-ICV1

nt14.i, 20201007.b\ALKYLPNA.m, 07-OCT-2020 18:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

No RRT check. Ccal file.

On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

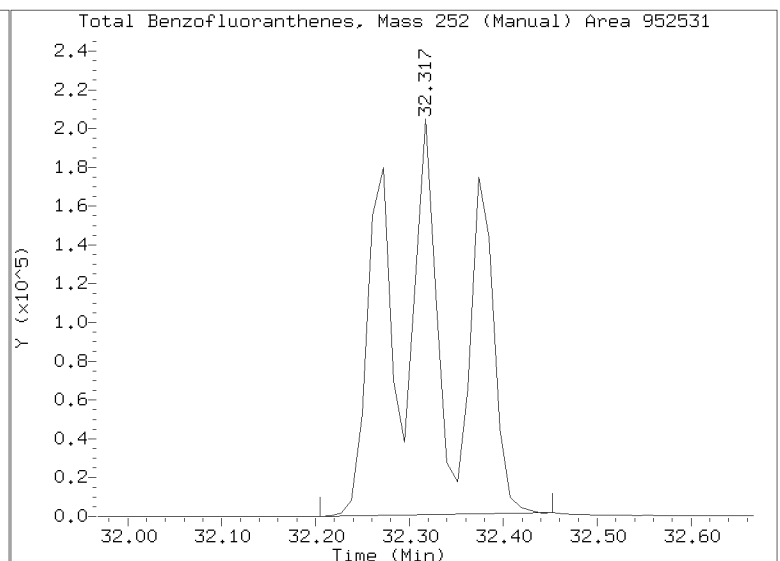
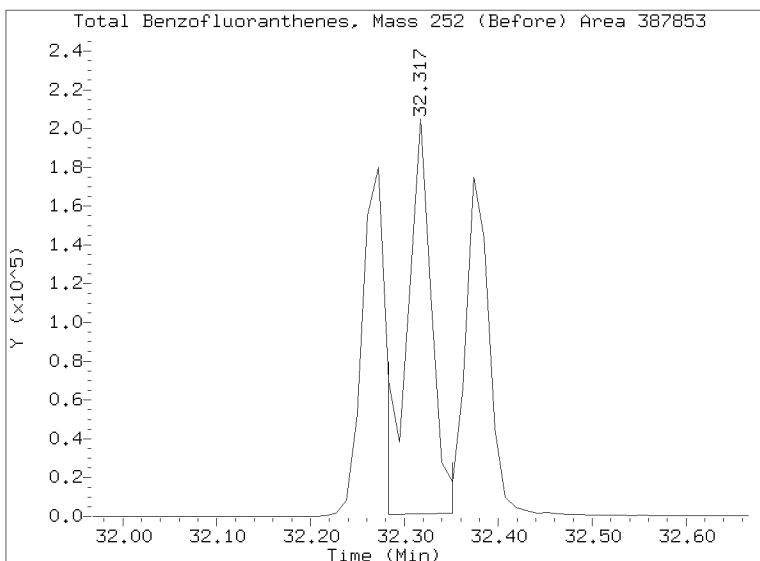
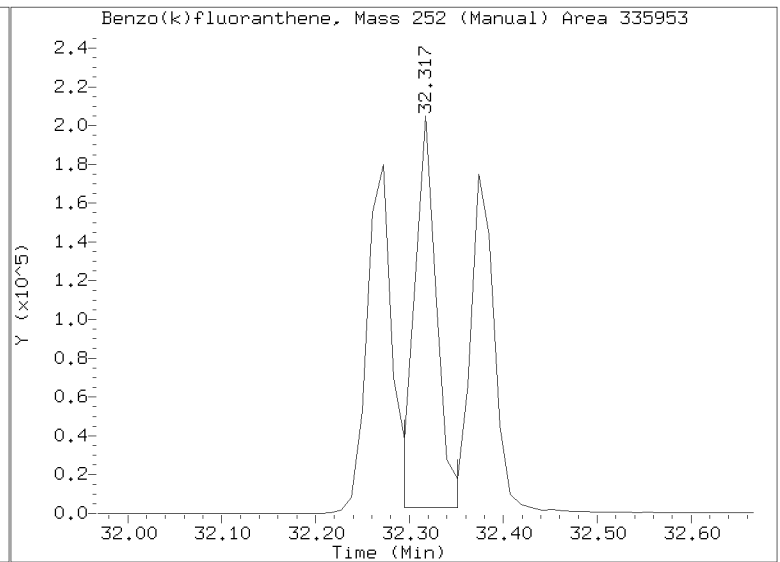
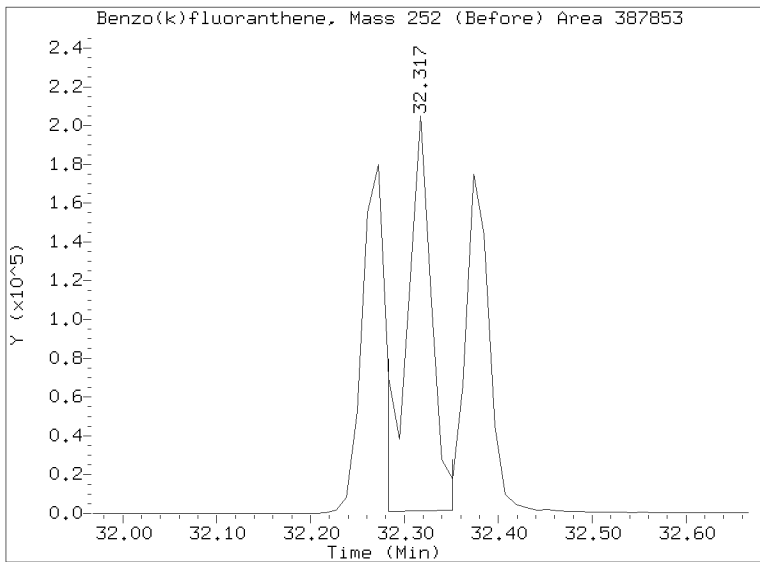
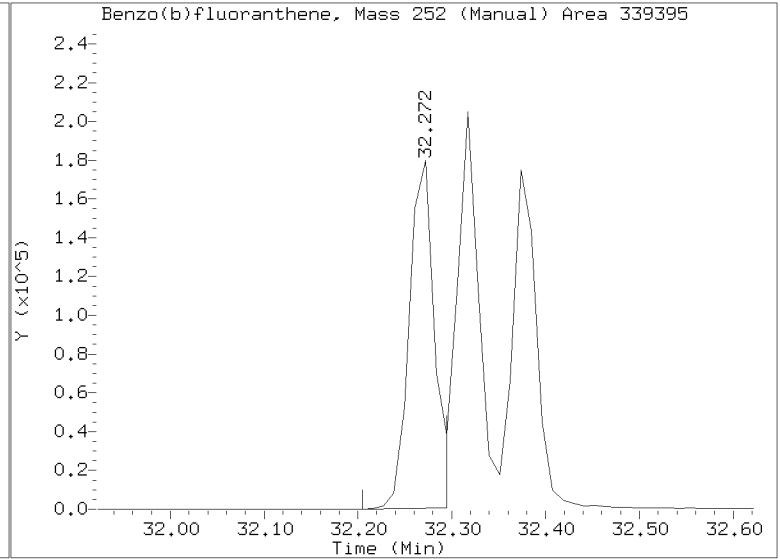
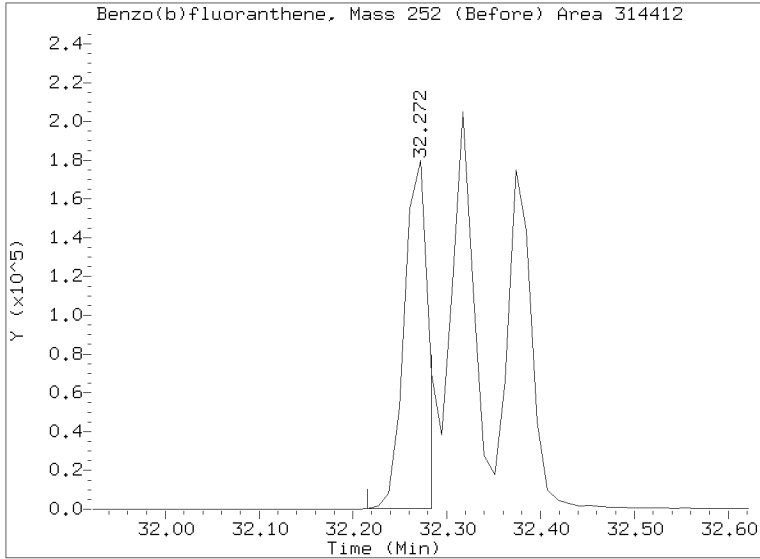
Quant Ion Manual Peak Adjustment Report

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Injection Date: 07-OCT-2020 18:22

Lab ID:SIJ0085-ICV1 Client ID:

Report Date: 10/09/2020 08:51



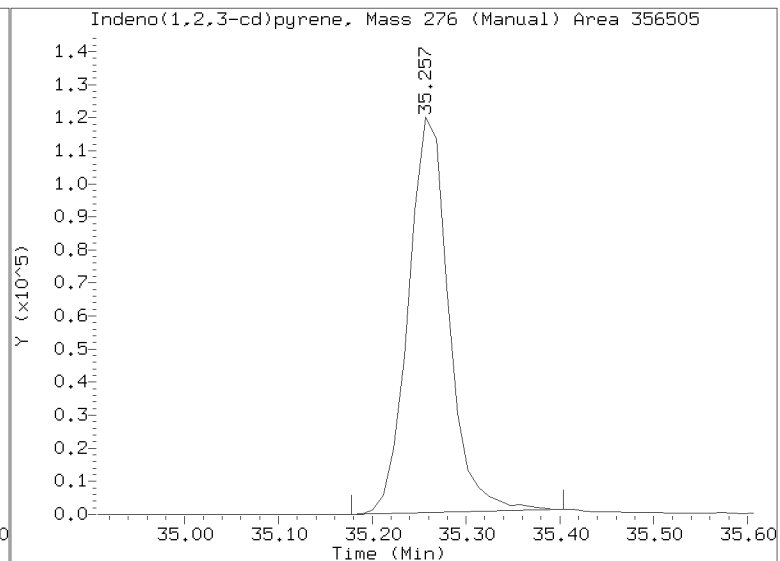
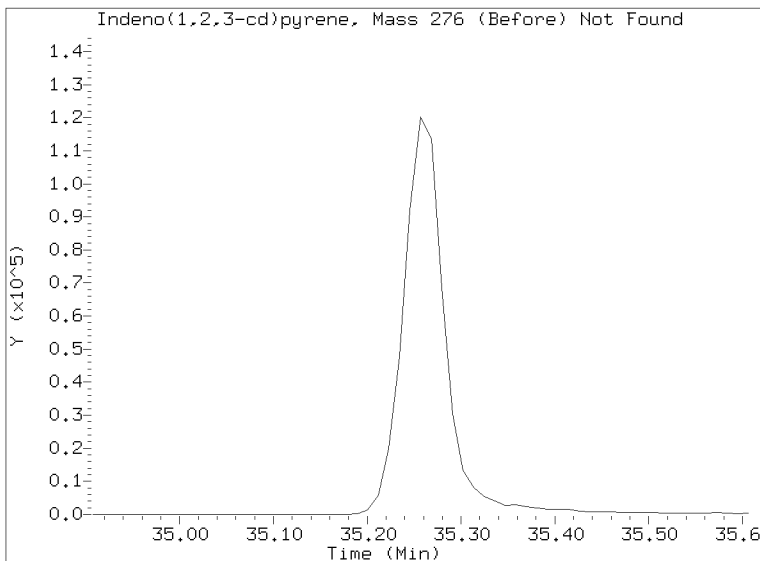
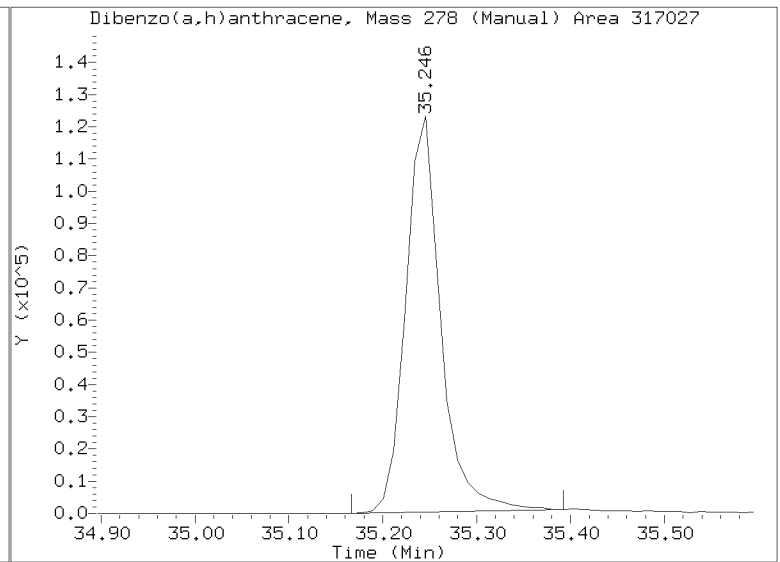
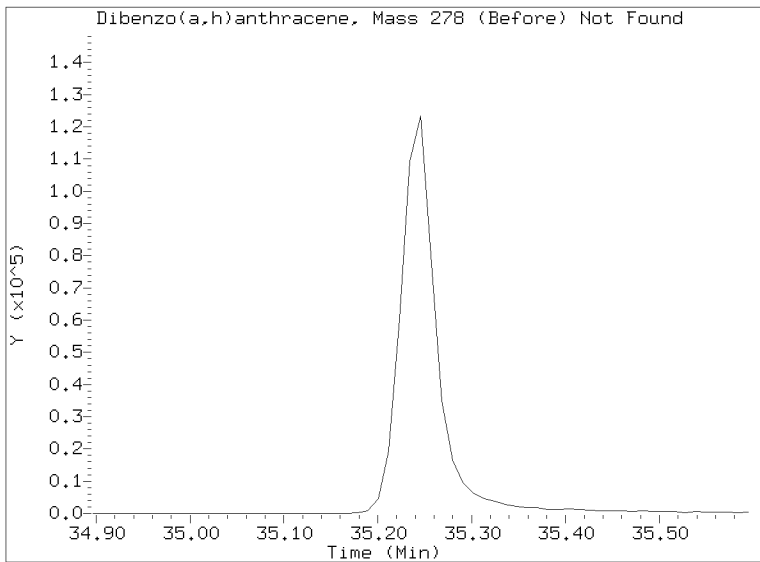
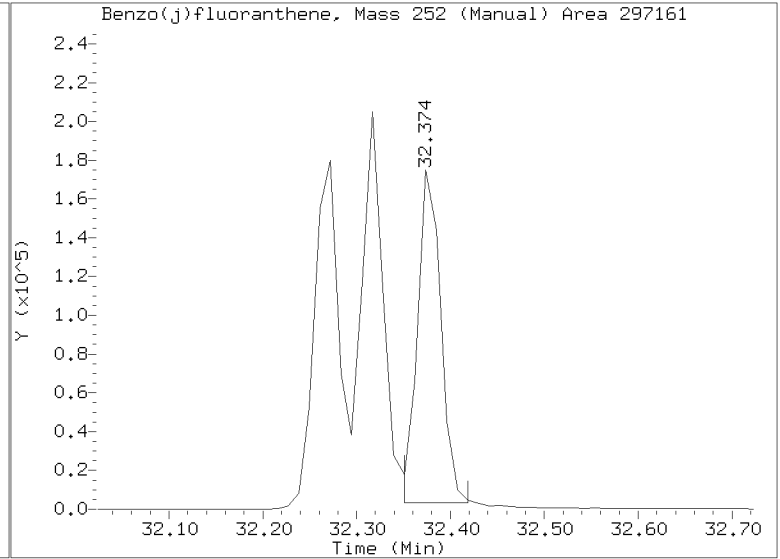
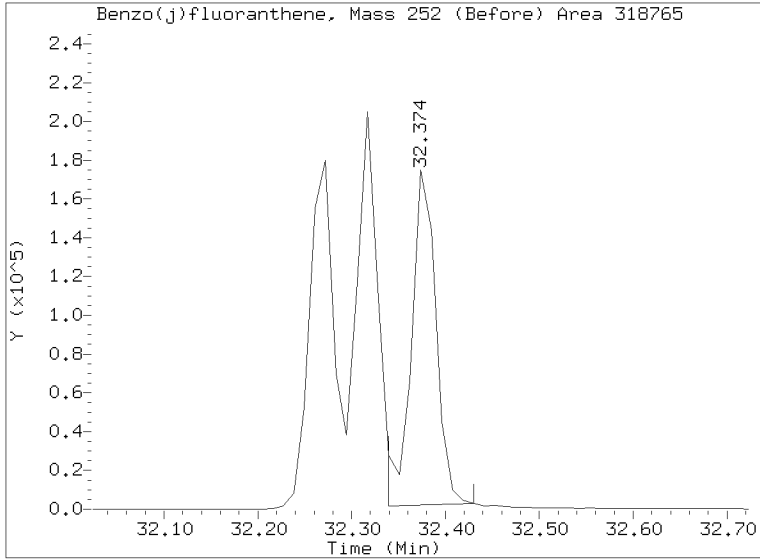
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Injection Date: 07-OCT-2020 18:22

Lab ID:SIJ0085-ICV1 Client ID:

Report Date: 10/09/2020 08:51



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Instrument: nt14.i Date: 07-OCT-2020 Method: 20201007.b\ALKYLPNA.m

INITIAL CAL: 07-OCT-2020

Compound	%RSD or R ²
----------	------------------------

NO Q-FLAGS

ICV CAL: NT1420100711.D 07-OCT-2020 18:22

Compound	%D
----------	----

NO Q-FLAGS



INITIAL CALIBRATION CHECK EPA 8270E-SIM

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0121</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>DJ00029</u>
Lab File ID:	<u>NT1420102002.D</u>	Calibration Date:	<u>10/07/2020</u>
Sequence:	<u>SIJ0286</u>	Injection Date:	<u>10/20/20</u>
Lab Sample ID:	<u>SIJ0286-ICV1</u>	Injection Time:	<u>09:59</u>
Sequence Name:	<u>Initial Cal Check</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
trans-Decalin	A	2.5000	3.04	0.0835887	0.1017763		21.8	+/-20 *
cis-Decalin	A	2.5000	2.93	0.0628966	0.0737776		17.3	+/-20
Naphthalene	A	2.5000	2.75	0.8164379	0.8976177		10.0	+/-20
1-Methylnaphthalene	A	2.5000	2.60	0.5226651	0.5193191		3.8	+/-20
2-Methylnaphthalene	A	2.5000	2.79	0.4976918	0.5549125		11.5	+/-20
Biphenyl	A	2.5000	2.58	0.7490419	0.7729575		3.2	+/-20
2,6-Dimethylnaphthalene	A	2.5000	2.61	0.5468360	0.5698607		4.2	+/-20
Acenaphthylene	A	2.5000	2.67	0.8966517	0.9568917		6.7	+/-20
Acenaphthene	A	2.5000	2.66	0.5873971	0.6242682		6.3	+/-20
Dibenzofuran	A	2.5000	2.55	0.8521596	0.8686960		2.0	+/-20
2,3,5-Trimethylnaphthalene	A	2.5000	2.70	0.5544134	0.5980485		7.9	+/-20
Fluorene	A	2.5000	2.58	0.6643144	0.6852584		3.2	+/-20
Benzo(b)thiophene	A	2.5000	2.68	0.6860043	0.7343396		7.0	+/-20
Phenanthrene	A	2.5000	2.56	1.1075820	1.1358270		2.6	+/-20
Anthracene	A	2.5000	2.59	1.0885140	1.1263910		3.5	+/-20
Carbazole	A	2.5000	2.56	0.9426380	0.9637805		2.2	+/-20
1-Methylphenanthrene	A	2.5000	2.72	0.8129613	0.8842823		8.8	+/-20
Fluoranthene	A	2.5000	2.67	1.2224260	1.3046010		6.7	+/-20
Dibenzothiophene	A	2.5000	2.58	0.9560816	0.9864621		3.2	+/-20
Pyrene	A	2.5000	2.68	1.2899540	1.3815860		7.1	+/-20
Benzo(a)anthracene	A	2.5000	3.09	0.8634119	1.0668350		23.6	+/-20 *
Chrysene	A	2.5000	2.48	0.8581534	0.8517801		-0.8	+/-20
Benzo(b)fluoranthene	A	2.5000	2.68	0.9748863	1.0451440		7.2	+/-20
Benzo(j)fluoranthene	A	2.5000	2.61	0.8589085	0.8961385		4.3	+/-20
Benzo(k)fluoranthene	A	2.5000	2.75	0.9825948	1.0795350		9.9	+/-20
Benzo(a)fluoranthene, Total	A	7.5000	7.65	0.9045439	0.9226813		2.0	+/-20
Benzo(e)pyrene	A	2.5000	2.52	0.8926013	0.9000549		0.8	+/-20
Benzo(a)pyrene	A	2.5000	2.57	0.8433439	0.8670064		2.8	+/-20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.62	1.0443470	1.0940630		4.8	+/-20
Dibenzo(a,h)anthracene	A	2.5000	2.72	0.9226661	1.0041610		8.8	+/-20
Benzo(g,h,i)perylene	A	2.5000	2.72	0.9174617	0.9983388		8.8	+/-20

* Values outside of QC limits

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Date: 20-OCT-2020 09:59

Client ID:

Sample Info: S100286-ICW1

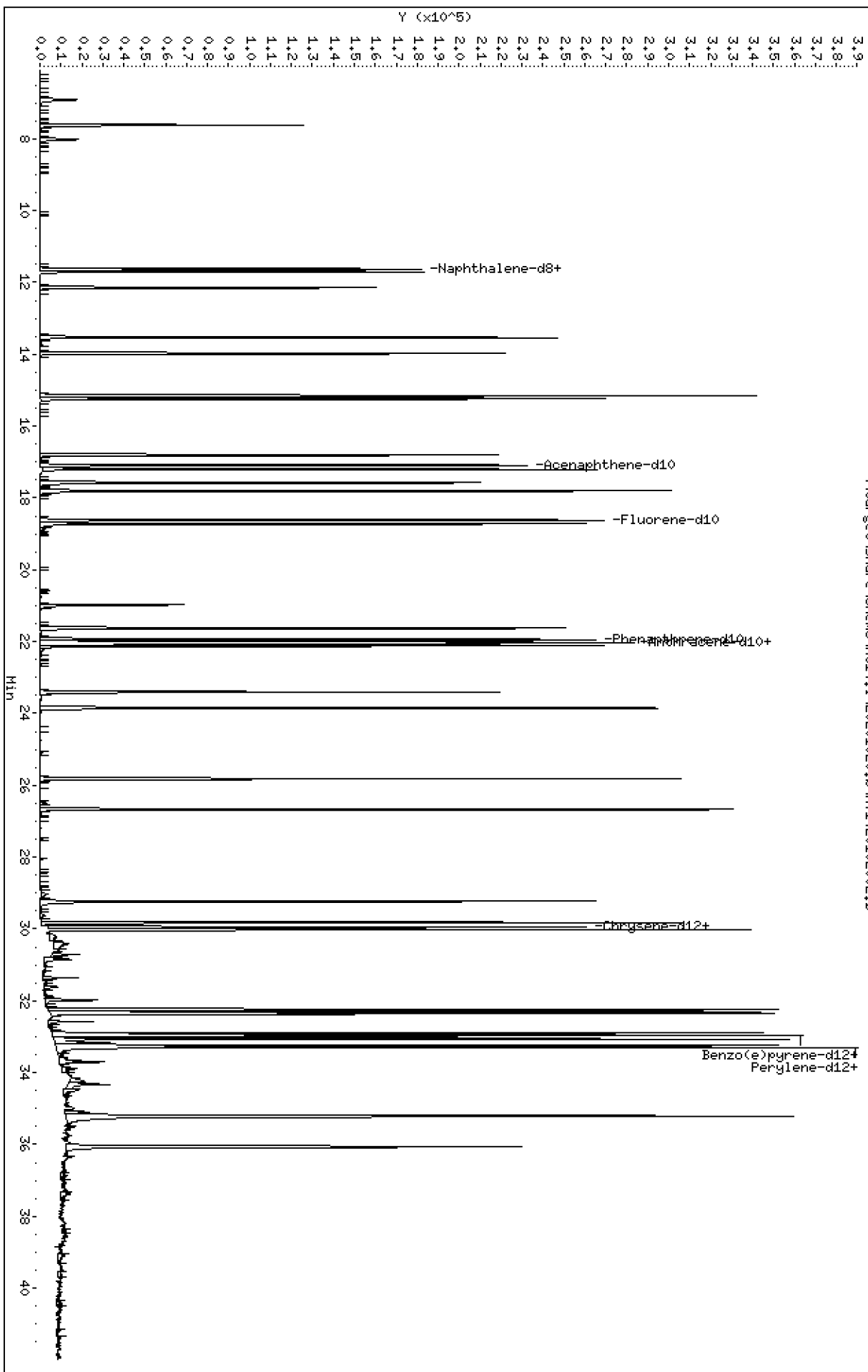
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Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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 Inj Date : 20-OCT-2020 09:59
 Operator : VTS
 Smp Info : SIJ0286-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Meth Date : 20-Oct-2020 11:14 van
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Continuing Calibration Sample
 Compound Sublist: TARGETS.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.914	6.914	(0.371)	27459	2.50000	3.044
2 cis-Decalin	138	8.023	8.023	(0.431)	19905	2.50000	2.932
\$ 6 Naphthalene-d8	136	11.630	11.630	(0.625)	281791	2.50000	3.200
7 Naphthalene	128	11.696	11.696	(0.628)	242175	2.50000	2.749
12 Benzo(b)thiophene	134	12.146	12.146	(0.652)	198123	2.50000	2.676
16 2-Methylnaphthalene	141	13.531	13.531	(0.727)	149714	2.50000	2.787
17 1-methylnaphthalene	141	13.981	13.981	(0.751)	140111	2.50000	2.595
18 Biphenyl	154	15.168	15.168	(0.815)	208542	2.50000	2.580
19 2,6-Dimethylnaphthalene	156	15.245	15.245	(0.819)	153747	2.50000	2.605
20 Acenaphthylene	152	16.806	16.806	(0.903)	258167	2.50000	2.668
\$ 21 Acenaphthene-d10	164	17.092	17.092	(0.918)	137645	2.50000	2.603
22 Acenaphthene	153	17.201	17.201	(0.924)	168426	2.50000	2.657
23 Dibenzofuran	168	17.575	17.575	(0.944)	234372	2.50000	2.549
24 1,6,7-Trimethylnaphthalene	170	17.806	17.806	(0.956)	161352	2.50000	2.697
* 25 Fluorene-d10	176	18.621	18.621	(1.000)	215838	2.00000	
26 Fluorene	166	18.723	18.723	(1.005)	184881	2.50000	2.579
30 Dibenzothiophene	184	21.626	21.626	(1.161)	266145	2.50000	2.579
\$ 35 Phenanthrene-d10	188	21.941	21.941	(0.995)	247407	2.50000	2.652
36 Phenanthrene	178	22.018	22.018	(0.999)	276591	2.50000	2.564
* 250 Anthracene-d10	188	22.051	22.051	(1.000)	194812	2.00000	
37 Anthracene	178	22.116	22.116	(1.003)	274293	2.50000	2.587
42 Carbazole	167	23.403	23.403	(1.061)	234695	2.50000	2.556
43 1-Methylphenanthrene	192	23.853	23.853	(1.082)	215336	2.50000	2.719
44 Fluoranthene	202	25.821	25.821	(1.171)	317690	2.50000	2.668
46 Pyrene	202	26.668	26.668	(1.209)	336437	2.50000	2.678
51 Naphthobenzothiophene	234	29.234	29.234	(1.326)	302051	2.50000	2.637
55 Benzo(a)anthracene	228	29.816	29.816	(0.906)	378913	2.50000	3.089
\$ 56 Chrysene-d12	240	29.940	29.940	(0.910)	241897	2.50000	2.497
57 Chrysene	228	30.019	30.019	(0.912)	302531	2.50000	2.481
62 Benzo(b)fluoranthene	252	32.238	32.238	(0.980)	371209	2.50000	2.680
63 Benzo(k)fluoranthene	252	32.294	32.294	(0.982)	383424	2.50000	2.747
293 Benzo(j)fluoranthene	252	32.351	32.351	(0.983)	318286	2.50000	2.608
246 Total Benzofluoranthenes	252	32.238	32.238	(0.980)	983140	7.50000	7.650 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 251 Benzo(e)pyrene-d12	264	32.902	32.902	(1.000)	284140	2.00000		
64 Benzo(e)pyrene	252	32.959	32.959	(1.002)	319677	2.50000	2.521	
66 Benzo(a)pyrene	252	33.060	33.060	(1.005)	307939	2.50000	2.570	
\$ 67 Perylene-d12	264	33.240	33.240	(1.010)	295075	2.50000	2.511	
68 Perylene	252	33.297	33.297	(1.012)	324156	2.50000	2.576	
69 Indeno(1,2,3-cd)pyrene	276	35.223	35.223	(1.071)	388584	2.50000	2.619	
70 Dibenzo(a,h)anthracene	278	35.200	35.200	(1.070)	356653	2.50000	2.721	
74 Benzo(g,h,i)perylene	276	36.056	36.056	(1.096)	354585	2.50000	2.720	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 17-OCT-2020
 Lab File ID: NT1420102002.D Calibration Time: 12:06
 Lab Smp Id: SIJ0286-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201020.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	215838	107919	431676	215838	0.00
250 Anthracene-d10	194812	97406	389624	194812	0.00
251 Benzo(e)pyrene-d1	284140	142070	568280	284140	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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 - NT1420102002.D

Lab ID: SIJ0286-ICV1

nt14.i, 20201020.b\ALKYLPNA.m, 20-OCT-2020 09:59

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

No RRT check. Ccal file.

On Column LOD for nt14.i, 20201020.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

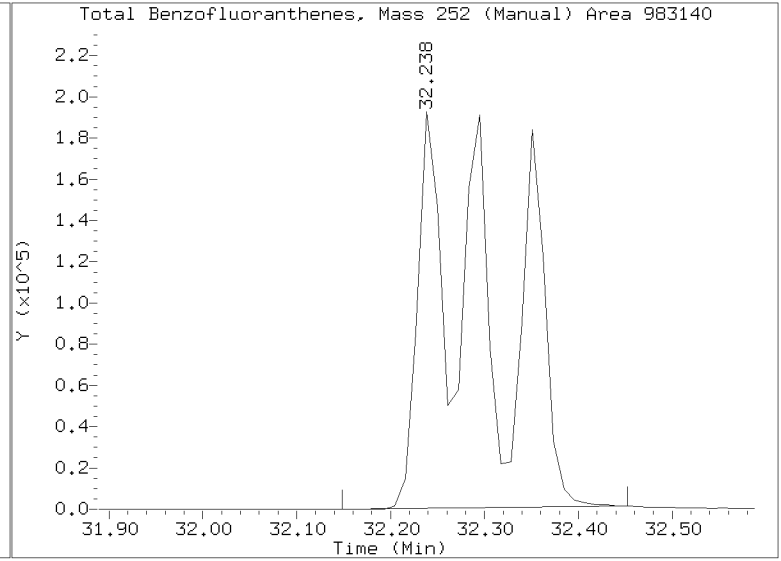
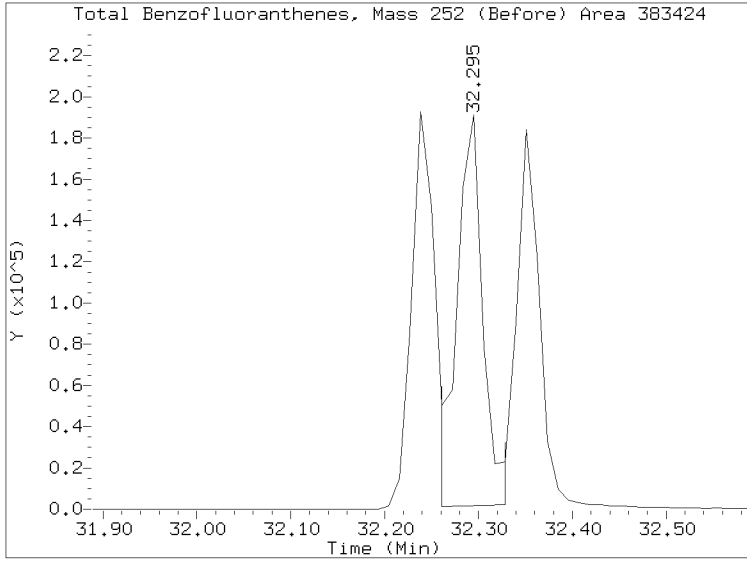
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201020.b/NT1420102002.D

Injection Date: 20-OCT-2020 09:59

Lab ID:SIJ0286-ICV1 Client ID:

Report Date: 10/21/2020 14:21



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201020.b

Instrument: nt14.i Date: 20-OCT-2020 Method: 20201020.b\ALKYLPNA.m

INITIAL CAL: 07-OCT-2020

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1420102002.D 20-OCT-2020 09:59

Compound	%D

Benzo(a)anthracene	23.6
trans-Decalin	21.8
Naphthalene-d8	28.0



INITIAL CALIBRATION CHECK

EPA 8270E-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0121</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>NT14</u>	Calibration: <u>DJ00029</u>
Lab File ID: <u>NT1420102202.D</u>	Calibration Date: <u>10/07/2020</u>
Sequence: <u>SIJ0333</u>	Injection Date: <u>10/22/20</u>
Lab Sample ID: <u>SIJ0333-ICV1</u>	Injection Time: <u>10:01</u>
Sequence Name: <u>Initial Cal Check</u>	

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
trans-Decalin	A	2.5000	3.0	0.0835887	0.0987103		18.1	+/-20
cis-Decalin	A	2.5000	2.8	0.0628966	0.0705920		12.2	+/-20
Naphthalene	A	2.5000	2.8	0.8164379	0.9053531		10.9	+/-20
1-Methylnaphthalene	A	2.5000	2.6	0.5226651	0.5292956		5.8	+/-20
2-Methylnaphthalene	A	2.5000	2.8	0.4976918	0.5516790		10.8	+/-20
Biphenyl	A	2.5000	2.6	0.7490419	0.7857671		4.9	+/-20
2,6-Dimethylnaphthalene	A	2.5000	2.6	0.5468360	0.5769594		5.5	+/-20
Acenaphthylene	A	2.5000	2.6	0.8966517	0.9406234		4.9	+/-20
Acenaphthene	A	2.5000	2.6	0.5873971	0.6213749		5.8	+/-20
Dibenzofuran	A	2.5000	2.5	0.8521596	0.8661200		1.6	+/-20
2,3,5-Trimethylnaphthalene	A	2.5000	2.7	0.5544134	0.5973733		7.8	+/-20
Fluorene	A	2.5000	2.5	0.6643144	0.6687033		0.7	+/-20
Benzo(b)thiophene	A	2.5000	2.7	0.6860043	0.7480457		9.0	+/-20
Phenanthrene	A	2.5000	2.5	1.1075820	1.1010510		-0.6	+/-20
Anthracene	A	2.5000	2.5	1.0885140	1.0704760		-1.6	+/-20
Carbazole	A	2.5000	2.5	0.9426380	0.9500567		0.8	+/-20
1-Methylphenanthrene	A	2.5000	2.7	0.8129613	0.8634446		6.2	+/-20
Fluoranthene	A	2.5000	2.6	1.2224260	1.2888220		5.4	+/-20
Dibenzothiophene	A	2.5000	2.5	0.9560816	0.9712402		1.6	+/-20
Pyrene	A	2.5000	2.6	1.2899540	1.3336680		3.4	+/-20
Benzo(a)anthracene	A	2.5000	2.4	0.8634119	0.8317742		-3.7	+/-20
Chrysene	A	2.5000	2.4	0.8581534	0.8157576		-5.0	+/-20
Benzo(b)fluoranthene	A	2.5000	2.3	0.9748863	0.8798502		-9.8	+/-20
Benzo(j)fluoranthene	A	2.5000	2.6	0.8589085	0.8759903		2.0	+/-20
Benzo(k)fluoranthene	A	2.5000	2.6	0.9825948	1.0226490		4.1	+/-20
Benzo(a)fluoranthene, Total	A	7.5000	7.5	0.9045439	0.9009350		-0.4	+/-20
Benzo(e)pyrene	A	2.5000	2.5	0.8926013	0.9031013		1.2	+/-20
Benzo(a)pyrene	A	2.5000	2.4	0.8433439	0.8208268		-2.7	+/-20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.6	1.0443470	1.0869410		4.1	+/-20
Dibenzo(a,h)anthracene	A	2.5000	2.5	0.9226661	0.9199387		-0.3	+/-20
Benzo(g,h,i)perylene	A	2.5000	2.6	0.9174617	0.9591003		4.5	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0121</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Instrument ID:	<u>NT14</u>	Calibration:	<u>DJ00029</u>
Lab File ID:	<u>NT1420102202.D</u>	Calibration Date:	<u>10/07/2020</u>
Sequence:	<u>SIJ0333</u>	Injection Date:	<u>10/22/20</u>
Lab Sample ID:	<u>SIJ0333-ICV1</u>	Injection Time:	<u>10:01</u>
Sequence Name:	<u>Initial Cal Check</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Perylene	A	2.5000	2.5	0.8858103	0.8877320		0.2	+/-20
Benzo(b)naphtho(2,1-d)thiophene	A	2.5000	2.6	1.1757640	1.2105540		3.0	+/-20
Naphthalene-d8	A	2.5000	3.16	0.8160533	1.0313850		26.4	+/-20 *
Acenaphthene-d10	A	2.5000	2.62	0.4900295	0.5133537		4.8	+/-20
Phenanthrene-d10	A	2.5000	3.09	0.9579158	1.1821		23.4	+/-20 *
Chrysene-d12	A	2.5000	2.36	0.6819030	0.6442801		-5.5	+/-20
Perylene-d12	A	2.5000	2.47	0.8269999	0.8160254		-1.3	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.1\20201022.16\NT1420102202.D

Date : 22-OCT-2020 10:01

Client ID:

Sample Info: S1J0333-ICW1

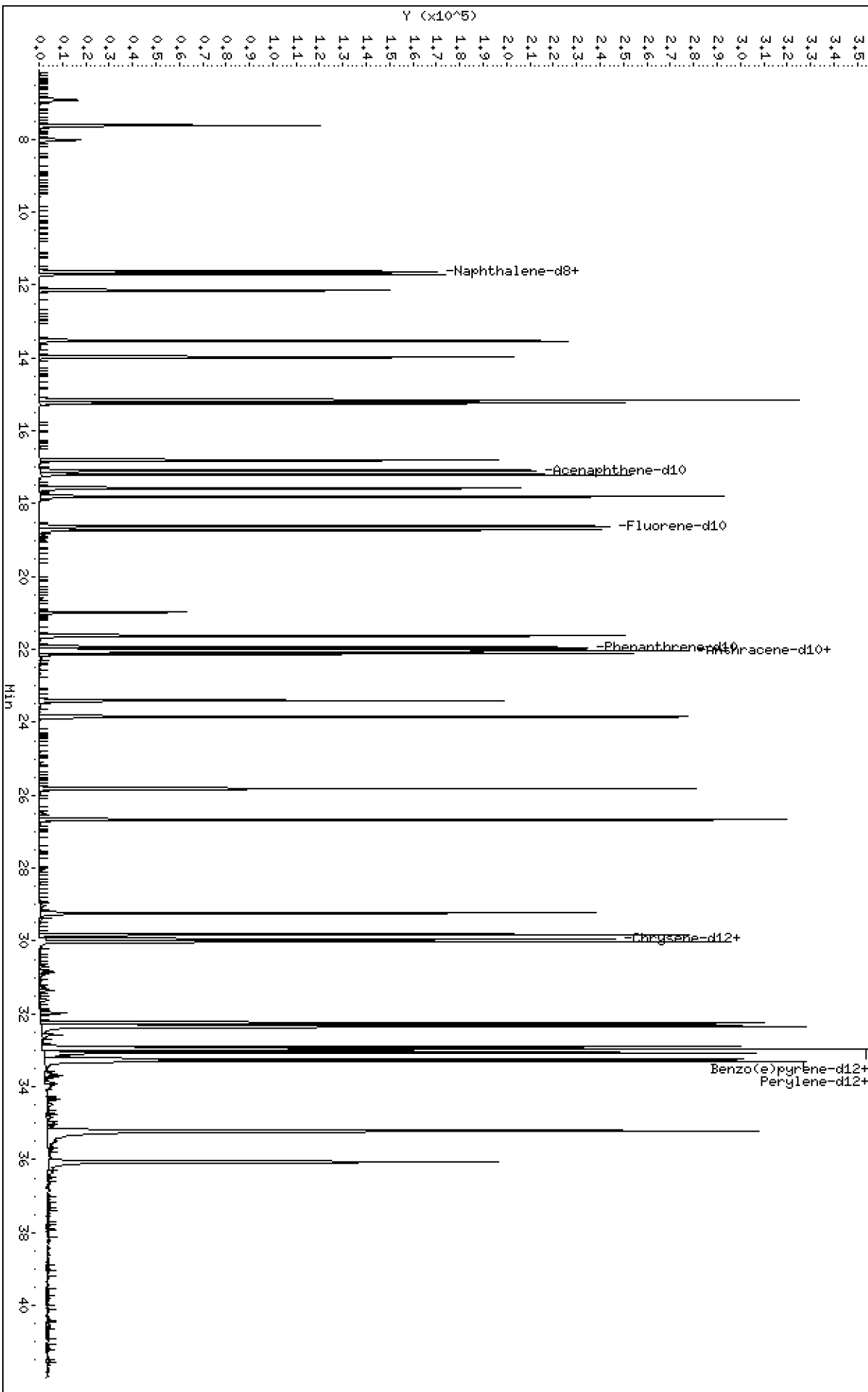
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201022.16\NT1420102202.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201022.b\NT1420102202.D
 Lab Smp Id: SIJ0333-ICV1
 Inj Date : 22-OCT-2020 10:01
 Operator : VTS
 Smp Info : SIJ0333-ICV1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201022.b\ALKYLPNA.m
 Meth Date : 22-Oct-2020 10:48 vans
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: VANS

Inst ID: nt14.i
 Quant Type: ISTD
 Cal File: NT1420100708.D
 Continuing Calibration Sample
 Compound Sublist: TARGETS.sub

Compounds	QUANT SIG		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.924	6.924	(0.372)	25009	2.50000	2.952
2 cis-Decalin	138	8.014	8.014	(0.430)	17885	2.50000	2.806
\$ 6 Naphthalene-d8	136	11.630	11.630	(0.625)	261309	2.50000	3.160
7 Naphthalene	128	11.696	11.696	(0.628)	229378	2.50000	2.772
12 Benzo(b)thiophene	134	12.146	12.146	(0.652)	189523	2.50000	2.726
16 2-Methylnaphthalene	141	13.531	13.531	(0.727)	139772	2.50000	2.771
17 1-methylnaphthalene	141	13.982	13.982	(0.751)	134101	2.50000	2.646
18 Biphenyl	154	15.169	15.169	(0.815)	199080	2.50000	2.623
19 2,6-Dimethylnaphthalene	156	15.245	15.245	(0.819)	146177	2.50000	2.638
20 Acenaphthylene	152	16.806	16.806	(0.903)	238314	2.50000	2.623
\$ 21 Acenaphthene-d10	164	17.092	17.092	(0.918)	130062	2.50000	2.619
22 Acenaphthene	153	17.202	17.202	(0.924)	157430	2.50000	2.645
23 Dibenzofuran	168	17.575	17.575	(0.944)	219438	2.50000	2.541
24 1,6,7-Trimethylnaphthalene	170	17.806	17.806	(0.956)	151349	2.50000	2.694
* 25 Fluorene-d10	176	18.621	18.621	(1.000)	202686	2.00000	
26 Fluorene	166	18.723	18.723	(1.005)	169421	2.50000	2.517
30 Dibenzothiophene	184	21.626	21.626	(1.161)	246071	2.50000	2.540
\$ 35 Phenanthrene-d10	188	21.941	21.941	(0.995)	269866	2.50000	3.085
36 Phenanthrene	178	22.018	22.018	(0.999)	251363	2.50000	2.485
* 250 Anthracene-d10	188	22.051	22.051	(1.000)	182635	2.00000	
37 Anthracene	178	22.117	22.117	(1.003)	244383	2.50000	2.459
42 Carbazole	167	23.403	23.403	(1.061)	216892	2.50000	2.520
43 1-Methylphenanthrene	192	23.854	23.854	(1.082)	197119	2.50000	2.655
44 Fluoranthene	202	25.822	25.822	(1.171)	294230	2.50000	2.636
46 Pyrene	202	26.668	26.668	(1.209)	304468	2.50000	2.585
51 Naphthobenzothiophene	234	29.234	29.234	(1.326)	276362	2.50000	2.574
55 Benzo(a)anthracene	228	29.817	29.817	(0.906)	282719	2.50000	2.408
\$ 56 Chrysene-d12	240	29.940	29.940	(0.910)	218990	2.50000	2.362
57 Chrysene	228	30.019	30.019	(0.912)	277275	2.50000	2.376
62 Benzo(b)fluoranthene	252	32.238	32.238	(0.980)	299060	2.50000	2.256 (M)
63 Benzo(k)fluoranthene	252	32.294	32.294	(0.982)	347597	2.50000	2.602 (M)
293 Benzo(j)fluoranthene	252	32.351	32.351	(0.983)	297748	2.50000	2.550
246 Total Benzofluoranthenes	252	32.351	32.351	(0.983)	918680	7.50000	7.470 (M)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)	
=====	=====	=====	=====	=====	=====	=====	=====	
* 251 Benzo(e)pyrene-d12	264	32.903	32.903	(1.000)	271919	2.00000		
64 Benzo(e)pyrene	252	32.959	32.959	(1.002)	306963	2.50000	2.529	
66 Benzo(a)pyrene	252	33.060	33.060	(1.005)	278998	2.50000	2.433	
\$ 67 Perylene-d12	264	33.241	33.241	(1.010)	277366	2.50000	2.467	
68 Perylene	252	33.297	33.297	(1.012)	301739	2.50000	2.505	
69 Indeno(1,2,3-cd)pyrene	276	35.223	35.223	(1.071)	369450	2.50000	2.602	
70 Dibenzo(a,h)anthracene	278	35.200	35.200	(1.070)	312686	2.50000	2.493 (M)	
74 Benzo(g,h,i)perylene	276	36.056	36.056	(1.096)	325997	2.50000	2.613 (M)	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 20-OCT-2020
 Lab File ID: NT1420102202.D Calibration Time: 09:59
 Lab Smp Id: SIJ0333-ICV1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201022.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	202686	101343	405372	202686	0.00
250 Anthracene-d10	182635	91318	365270	182635	0.00
251 Benzo(e)pyrene-d1	271919	135960	543838	271919	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.05	21.55	22.55	22.05	0.00
251 Benzo(e)pyrene-d1	32.90	32.40	33.40	32.90	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 - NT1420102202.D

Lab ID: SIJ0333-ICV1

nt14.i, 20201022.b\ALKYLPNA.m, 22-OCT-2020 10:01

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT CCV RRT DELTA COMPOUND

NONE

No RRT check. Ccal file.

On Column LOD for nt14.i, 20201022.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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

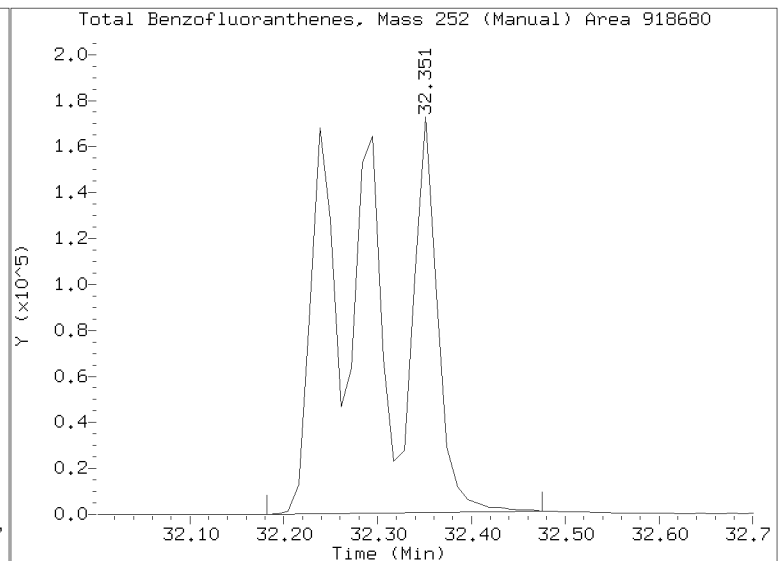
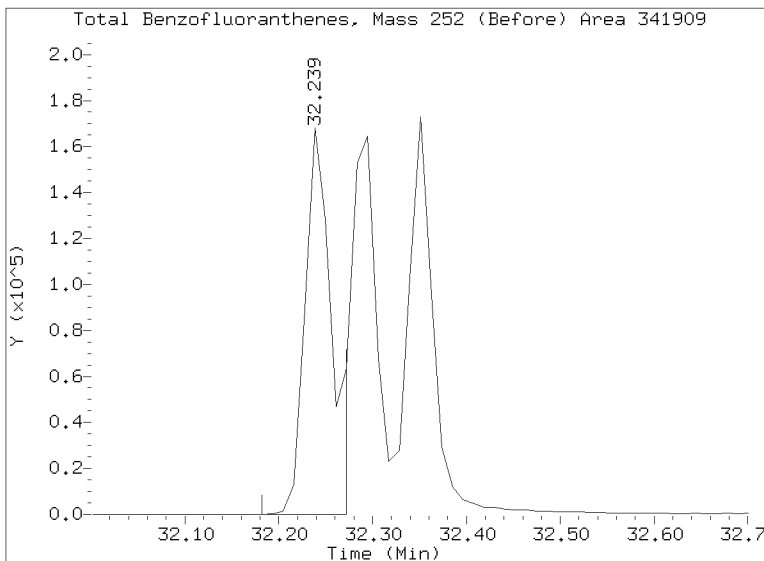
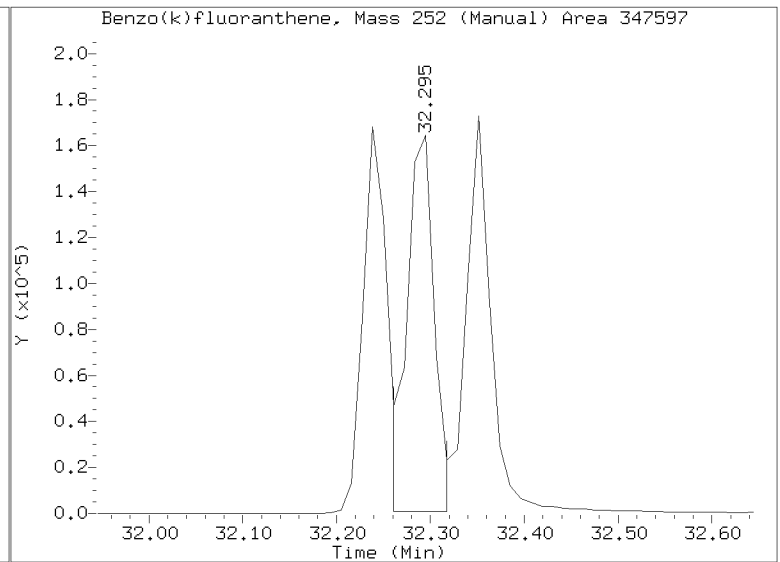
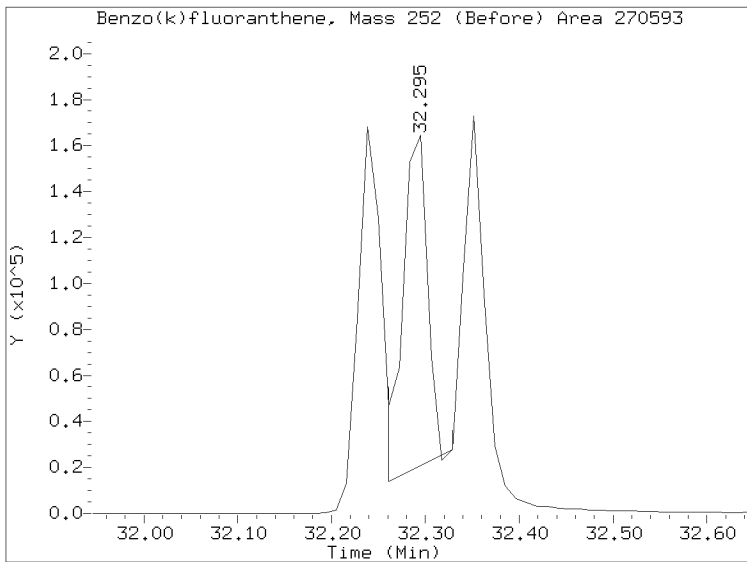
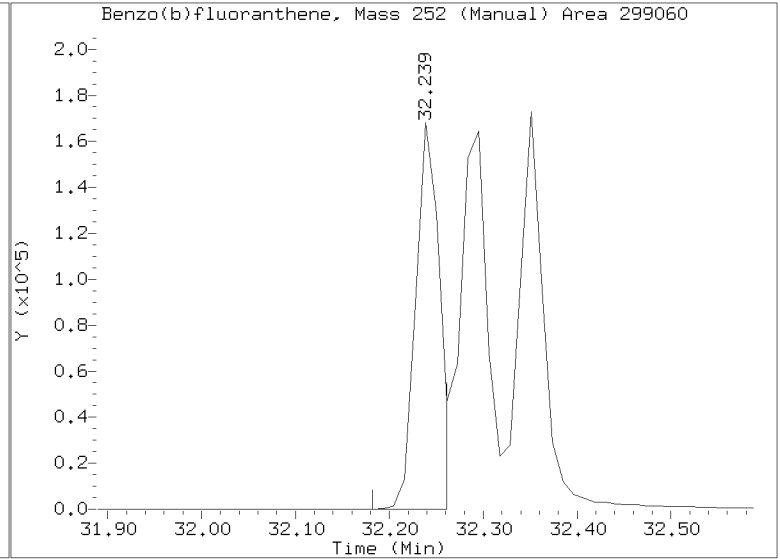
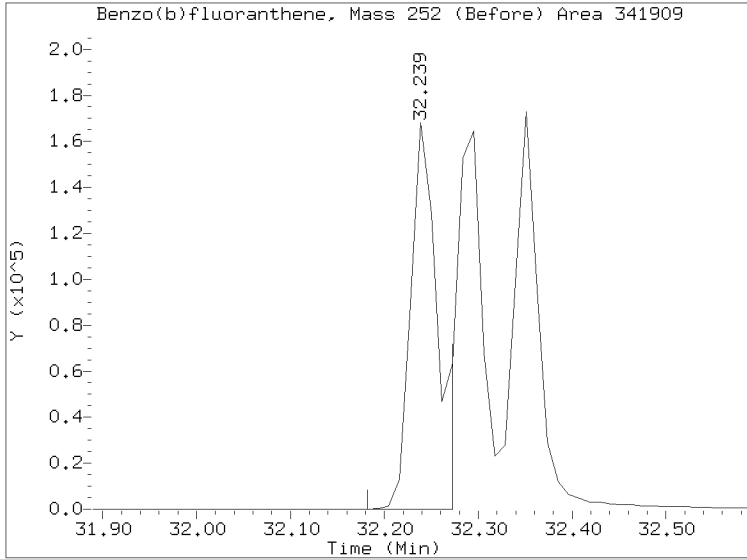
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201022.b/NT1420102202.D

Injection Date: 22-OCT-2020 10:01

Lab ID:SIJ0333-ICV1 Client ID:

Report Date: 10/23/2020 07:41



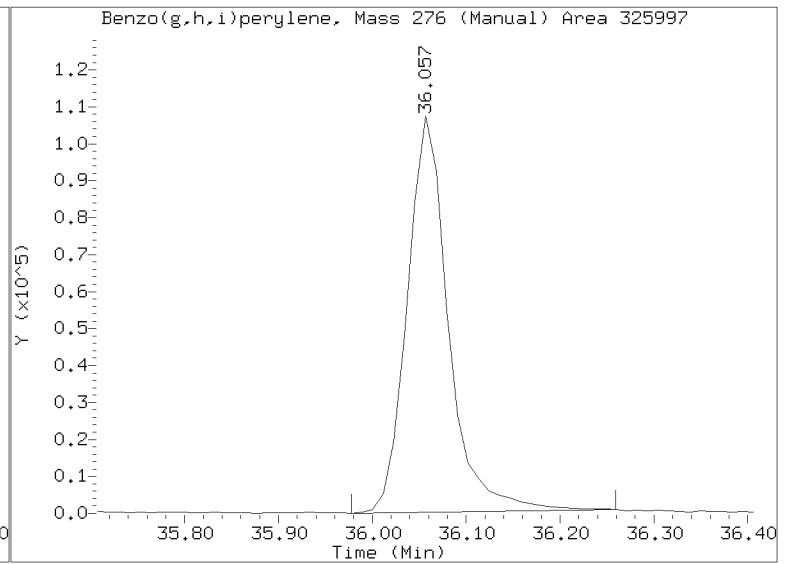
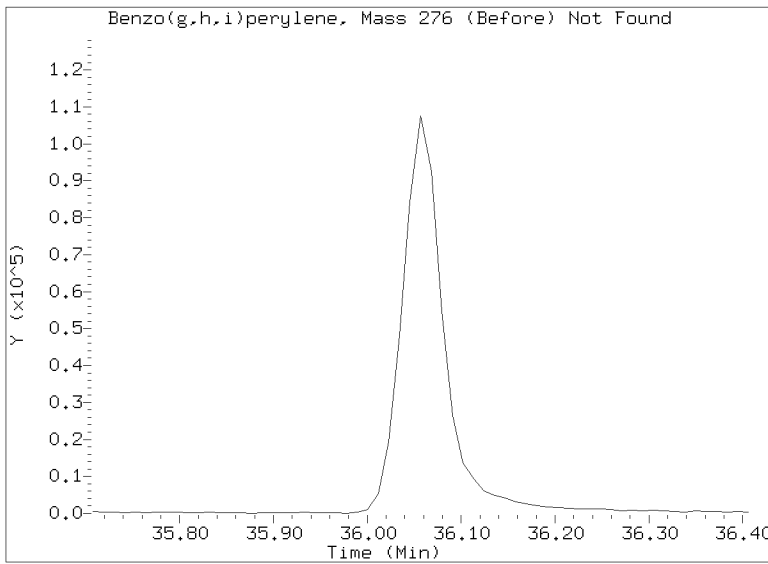
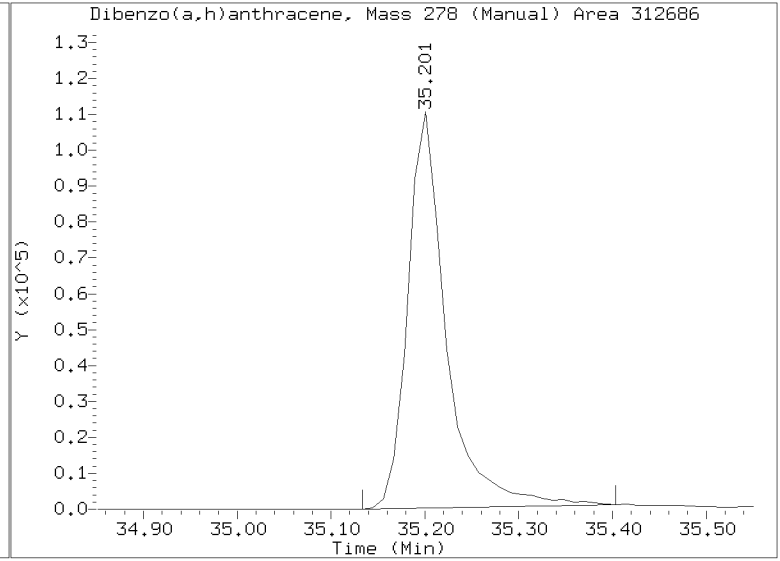
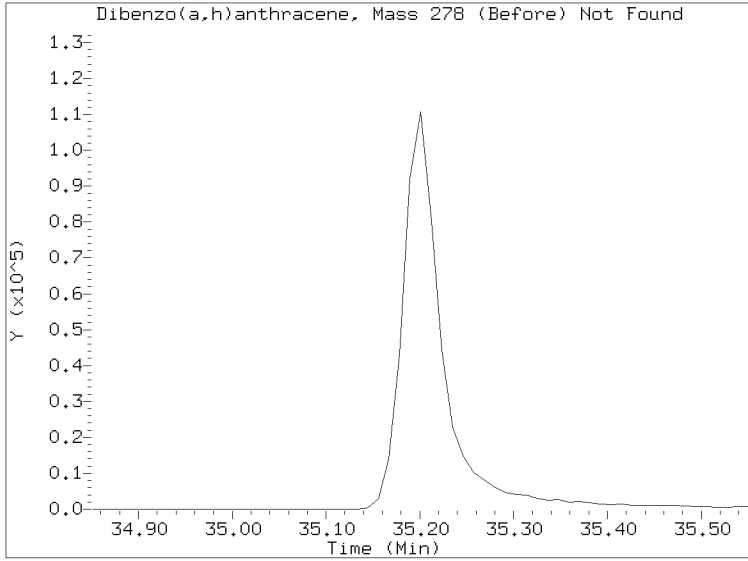
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201022.b/NT1420102202.D

Injection Date: 22-OCT-2020 10:01

Lab ID:SIJ0333-ICV1 Client ID:

Report Date: 10/23/2020 07:41



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201022.b

Instrument: nt14.i Date: 22-OCT-2020 Method: 20201022.b\ALKYLPNA.m

INITIAL CAL: 07-OCT-2020

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1420102202.D 22-OCT-2020 10:01

Compound	%D

Naphthalene-d8	26.4
Phenanthrene-d10	23.4



ANALYSIS SEQUENCE

SII0123

Instrument: NT14 Element Column ID: I005863
Calibration ID: DI00041 Tune File: 200104.U
EM Voltage: 1847

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SII0123-CAL1	Cal Standard	QC		1	I008041	I007919	
SII0123-ICV1	Initial Cal Check	QC		2	I008041	I007919	
BIH0457-BLK2	Blank	QC		3		I007919	
20H0199-17	BGW-PWN-SS617-08182020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	4		I007919	
20H0199-18	BGW-PWN-SS618-08182020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	5		I007919	
20H0199-19	BGW-PWN-SS619-08182020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	6		I007919	
20H0199-20	BGW-PWN-SS620-08182020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	7		I007919	
20H0199-21	BGW-PWN-SS622-08172020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	8		I007919	
20H0199-22	BGW-ISA-SS623-08172020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	9		I007919	
20H0199-23	BGW-ISA-SS624-08172020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	10		I007919	
20H0199-24	BGW-ISA-SS625-08172020	8270E-SIM Alkyl PAH (Range) Dual Scan	B 03	11		I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20200908.b\SIM.b

Time	Filename	LabID	ClientId	DF						
1	0833	NT1420090802S.D	SII0123-ICV1		1	18.85	289587 22.30	302226 33.10	388762	
2	1729	NT1420090813S.D	BIH0457-BLK1		1	18.86	275739 22.29	276529 33.10	371336	
3	2220	NT1420090819S.D	20H0199-17		1	18.86	293372 22.30	304319 33.10	386542	
4	2308	NT1420090820S.D	20H0199-18		1	18.86	294959 22.29	312091 33.10	384541	
5	2356	NT1420090821S.D	20H0199-19		1	18.86	297461 22.29	311487 33.10	379379	
6	0044	NT1420090822S.D	20H0199-20		1	18.85	294282 22.29	305915 33.10	385519	
7	0132	NT1420090823S.D	20H0199-21		1	18.86	290472 22.29	299224 33.10	382457	
8	0220	NT1420090824S.D	20H0199-22		1	18.86	298099 22.29	310862 33.10	402719	
9	0308	NT1420090825S.D	20H0199-23		1	18.86	298076 22.29	310129 33.10	394204	
10	0356	NT1420090826S.D	20H0199-24		1	18.85	269629 22.30	273879 33.10	350684	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20200908.b\SIM.b

Instrument: nt14.i Date: 08-SEP-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
0833	NT1420090802S.D	SII0123-ICV1	1	NO MANUAL INTEGRATION
1729	NT1420090813S.D	BIH0457-BLK1	1	C1-Naphthalenes, C2-Naphthalenes, Perylene-d12,
2220	NT1420090819S.D	20H0199-17	1	C1-Naphthalenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophen C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothioph C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes, C4-Phenanthrenes/Ant
2308	NT1420090820S.D	20H0199-18	1	C1-Naphthalenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophen C2-Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophen C3-Dibenzothiophenes, C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes
2356	NT1420090821S.D	20H0199-19	1	C1-Naphthalenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophen C1-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/A C4-Phenanthrenes/Anthracenes, C1-Fluoranthenes/Pyrenes, C2-Fluoranthenes/Pyrenes, C3-Fluoranthenes/Pyrenes,
0044	NT1420090822S.D	20H0199-20	1	C1-Naphthalenes, C2-Naphthalenes, C3-Naphthalenes, C1-Benzothiophenes, C1-Fluorenes, C1-Phenanthrenes/Anthracene C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes, C1-Fluoranthenes/Pyrenes, C2-Fluoranthenes/Pyrenes
0132	NT1420090823S.D	20H0199-21	1	C1-Naphthalenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophen C2-Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophen C3-Dibenzothiophenes, C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes
0220	NT1420090824S.D	20H0199-22	1	C1-Naphthalenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/A C2-Fluoranthenes/Pyrenes, C1-Naphthobenzothiophenes, C1-Benzo(a)anthracenes/Chrysene, C1-Dibenzo(a)anthracenes
0308	NT1420090825S.D	20H0199-23	1	C1-Naphthalenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophen C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothioph C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes, C4-Phenanthrenes/Ant
0356	NT1420090826S.D	20H0199-24	1	C1-Naphthalenes, C2-Naphthalenes, C3-Naphthalenes, C1-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C1-Phenanthrenes/Anthracenes, C2-Phenanthrenes/Anthracenes, C3-Phenanthrenes/Anthracenes, C1-Fluoranthenes/Pyr

Security Status Report

Date: 12-Sep-2020 14:14

NT1420090802S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090813S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090819S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090820S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090821S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090822S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090823S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090824S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090825S.D	Data Locked	van, 12-Sep-2020 14:14
NT1420090826S.D	Data Locked	van, 12-Sep-2020 14:14



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0085

Instrument: NT14

Calibration: DJ00029

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SIJ0085-TUN1	NT1420100701.D	NA	10/07/20 10:11
PAH 2.5	SIJ0085-CAL4	NT1420100702.D	NA	10/07/20 10:24
PAH 10	SIJ0085-CAL6	NT1420100703.D	NA	10/07/20 11:48
PAH 0.1	SIJ0085-CAL1	NT1420100704.D	NA	10/07/20 12:38
PAH 5.0	SIJ0085-CAL5	NT1420100705.D	NA	10/07/20 13:26
PAH 0.25	SIJ0085-CAL2	NT1420100706.D	NA	10/07/20 14:17
PAH 0.5	SIJ0085-CAL3	NT1420100707.D	NA	10/07/20 15:08
Secondary Cal Check	SIJ0085-SCV1	NT1420100709.D	NA	10/07/20 16:45
Initial Cal Blank	SIJ0085-ICB1	NT1420100710.D	NA	10/07/20 17:33
Initial Cal Check	SIJ0085-ICV1	NT1420100711.D	NA	10/07/20 18:22
Instrument Blank	SIJ0085-IBL1	NT1420100712.D	NA	10/07/20 19:11
ZZZZZ	20I0231-01RE1	NT1420100713.D	Solid	10/07/20 19:59
ZZZZZ	20I0231-02RE1	NT1420100714.D	Solid	10/07/20 20:48
ZZZZZ	20I0231-03RE1	NT1420100715.D	Solid	10/07/20 21:36
ZZZZZ	20I0231-05RE1	NT1420100717.D	Solid	10/07/20 23:13
ZZZZZ	20I0231-07RE1	NT1420100719.D	Solid	10/08/20 00:49
ZZZZZ	20I0231-08RE1	NT1420100720.D	Solid	10/08/20 01:38
ZZZZZ	20I0231-09RE1	NT1420100721.D	Solid	10/08/20 02:26
ZZZZZ	20I0231-10RE1	NT1420100722.D	Solid	10/08/20 03:14
ZZZZZ	20I0231-11RE1	NT1420100723.D	Solid	10/08/20 04:03
Calibration Check	SIJ0085-CCV1	NT1420100724.D	NA	10/08/20 04:51



ANALYSIS SEQUENCE

SIJ0085

Instrument: NT14 Element Column ID: I005863
Calibration ID: DI00026 Tune File: 200104.U
EM Voltage: 1847

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0085-TUN1	MS Tune	QC		1	I007631		
SIJ0085-CAL4	PAH 2.5	QC		2	I007920	I007919	
SIJ0085-CAL6	PAH 10	QC		3	I007921	I007919	
SIJ0085-CAL1	PAH 0.1	QC		4	I007926	I007919	
SIJ0085-CAL5	PAH 5.0	QC		5	I007922	I007919	
SIJ0085-CAL3	PAH 0.5	QC		6	I007924	I007919	
SIJ0085-CAL2	PAH 0.25	QC		7	I007925	I007919	
SIJ0085-SCV1	Secondary Cal Check	QC		8	I009393	I007919	
SIJ0085-ICB1	Initial Cal Blank	QC		9	I008041	I007919	
SIJ0085-ICV1	Initial Cal Check	QC		10	I007920	I007919	
SIJ0085-IBL1	Instrument Blank	QC		11	I008041	I007919	
20I0231-01RE1	PDI-028SC-A-07-08-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	12		I007919	Added 10/5/2020 by YZ
20I0231-02RE1	PDI-028SC-A-09-10-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	13		I007919	Added 10/5/2020 by YZ
20I0231-03RE1	PDI-028SC-A-10-11-191003	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	14		I007919	Added 10/5/2020 by YZ
20I0231-05RE1	PDI-069SC-A-08-09-191016	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	15		I007919	Added 10/5/2020 by YZ
20I0231-07RE1	PDI-080SC-A-00-01-200506	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	16		I007919	Added 10/5/2020 by YZ
20I0231-08RE1	PDI-081SC-A-10-11-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	17		I007919	Added 10/5/2020 by YZ
20I0231-09RE1	PDI-082SC-A-04-05-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	18		I007919	Added 10/5/2020 by YZ
20I0231-10RE1	PDI-082SC-A-07-08-191002	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	19		I007919	Added 10/5/2020 by YZ
20I0231-11RE1	PDI-165SC-A-02-03-200426	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	20		I007919	Added 10/5/2020 by YZ
SIJ0085-CCV1	Calibration Check	QC		21	I007920	I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Time	Filename	LabID	ClientId	DF					
1	1011	NT1420100701.D	SIJ0085-TUN1	1	NO	ISTDS	FOUND		
2	1024	NT1420100702.D	SIJ0085-CAL4	1	18.63	237050	22.07	216685	32.93 311824
3	1148	NT1420100703.D	SIJ0085-CAL6	1	18.64	243221	22.08	226778	32.94 315078
4	1238	NT1420100704.D	SIJ0085-CAL1	1	18.63	219599	22.07	199428	32.93 285553
5	1326	NT1420100705.D	SIJ0085-CAL5	1	18.63	221965	22.07	204432	32.93 290471
6	1417	NT1420100706.D	SIJ0085-CAL2	1	18.63	218460	22.07	197976	32.93 287017
7	1508	NT1420100707.D	SIJ0085-CAL3	1	18.63	217147	22.07	196660	32.93 281303
8	1556	NT1420100708.D	SIJ0085-CAL4	1	18.63	206259	22.07	189225	32.93 280633
9	1645	NT1420100709.D	SIJ0085-SCV1	1	18.63	189405	22.07	203362	32.93 288304
10	1733	NT1420100710.D	SIJ0085-ICB1	1	18.63	209569	22.07	195015	32.93 275049
11	1822	NT1420100711.D	SIJ0085-ICV1	1	18.63	209596	22.07	192407	32.93 274120
12	1911	NT1420100712.D	SIJ0085-IBL1	1	18.63	204918	22.07	190308	32.93 277914
13	1959	NT1420100713.D	20I0231-01RE1	50	18.63	216675	22.07	201347	32.93 283619
14	2048	NT1420100714.D	20I0231-02RE1	50	18.63	223226	22.07	210366	32.93 295832
15	2136	NT1420100715.D	20I0231-03RE1	50	18.63	220403	22.07	205010	32.93 294397
16	2225	NT1420100716.D	20I0231-04RE1	50	18.63	221665	22.07	207108	32.93 288287
17	2313	NT1420100717.D	20I0231-05RE1	50	18.63	213324	22.07	203945	32.93 287899
18	0001	NT1420100718.D	20I0231-06RE1	50	18.63	223960	22.07	210571	32.93 296494
19	0049	NT1420100719.D	20I0231-07RE1	25	18.63	219212	22.07	209445	32.93 289596
20	0138	NT1420100720.D	20I0231-08RE1	100	18.63	222098	22.07	213997	32.93 296812

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Time	Filename	LabID	ClientId	DF						
21	0226	NT1420100721.D	20I0231-09RE1		50	18.63	230253 22.07	216448 32.93	299511	
22	0314	NT1420100722.D	20I0231-10RE1		50	18.63	222736 22.07	211749 32.93	294827	
23	0403	NT1420100723.D	20I0231-11RE1		100	18.63	220968 22.07	205977 32.93	288799	
24	0451	NT1420100724.D	SIJ0085-CCV1		1	18.63	215012 22.07	198797 32.93	275539	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201007.b

Instrument: nt14.i Date: 07-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds				
1011	NT1420100701.D	SIJ0085-TUN1	1	NO MANUAL INTEGRATION				
1024	NT1420100702.D	SIJ0085-CAL4	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Total Benzofluoranthenes,	
1148	NT1420100703.D	SIJ0085-CAL6	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene,	
1238	NT1420100704.D	SIJ0085-CAL1	1	Benzo(k)fluoranthene,	cis-Decalin,	Total Benzofluoranthenes,	Phenanthrene-d10,	
1326	NT1420100705.D	SIJ0085-CAL5	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene
1417	NT1420100706.D	SIJ0085-CAL2	1	Total Benzofluoranthenes,				
1508	NT1420100707.D	SIJ0085-CAL3	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene
1556	NT1420100708.D	SIJ0085-CAL4	1	Total Benzofluoranthenes,		Phenanthrene-d10,		
1645	NT1420100709.D	SIJ0085-SCV1	1	Benzo(g,h,i)perylene,	Total Benzofluoranthenes,			
1733	NT1420100710.D	SIJ0085-ICB1	1	NO MANUAL INTEGRATION				
1822	NT1420100711.D	SIJ0085-ICV1	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	Total Benzofluoranthene
1911	NT1420100712.D	SIJ0085-IBL1	1	NO MANUAL INTEGRATION				
1959	NT1420100713.D	20I0231-01RE1	50	Acenaphthylene,	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	2,6-Dimethylnaphthalene,	Total Benzofluoranthenes,
				Perylene-d12,				
2048	NT1420100714.D	20I0231-02RE1	50	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	Benzo(g,h,i)perylene,
				Total Benzofluoranthenes,		Naphthalene-d8,	Phenanthrene-d10,	Perylene-d12,
2136	NT1420100715.D	20I0231-03RE1	50	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Dibenzo(a,h)anthracene,	2,6-Dimethylnaphthalen
				Naphthalene-d8,	Phenanthrene-d10,	Perylene-d12,		
2225	NT1420100716.D	20I0231-04RE1	50	NO MANUAL INTEGRATION				
2313	NT1420100717.D	20I0231-05RE1	50	Chrysene,	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	2,6-Dimethylnaphthalene,	Total Benzofluoranthenes,
				Acenaphthene-d10,	Phenanthrene-d10,	Perylene-d12,	Napht	

Instrument: nt14.i Date: 08-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds					
0001	NT1420100718.D	20I0231-06RE1	50	NO MANUAL INTEGRATION					
0049	NT1420100719.D	20I0231-07RE1	25	Benzo(b)fluoranthene, Total Benzofluoranthenes,	Benzo(k)fluoranthene, Phenanthrene-d10,	Dibenzo(a,h)anthracene, Perylene-d12,	Benzo(g,h,i)perylene,	Biphenyl,	2,6-Dimeth
0138	NT1420100720.D	20I0231-08RE1	100	Benzo(b)fluoranthene, Phenanthrene-d10,	Benzo(k)fluoranthene, Perylene-d12,	Dibenzo(a,h)anthracene,	Biphenyl,	2,6-Dimethylnaphthalene,	Total B
0226	NT1420100721.D	20I0231-09RE1	50	Benzo(b)fluoranthene, 2,6-Dimethylnaphthalene,	Benzo(k)fluoranthene, Benzo(b)thiophene,	Indeno(1,2,3-cd)pyrene, Total Benzofluoranthenes,	Dibenzo(a,h)anthracene, Phenanthrene-d10,	Benzo(g,h,i)perylene, Perylene-d12,	
0314	NT1420100722.D	20I0231-10RE1	50	Benzo(b)fluoranthene, Benzo(b)thiophene,	Benzo(k)fluoranthene, Total Benzofluoranthenes,	Dibenzo(a,h)anthracene, Phenanthrene-d10,	Benzo(g,h,i)perylene, Perylene-d12,	Biphenyl,	2,6-Dimeth
0403	NT1420100723.D	20I0231-11RE1	100	Benzo(b)fluoranthene, Total Benzofluoranthenes,	Benzo(k)fluoranthene, Phenanthrene-d10,	Indeno(1,2,3-cd)pyrene, Chrysene-d12,	Dibenzo(a,h)anthracene, Perylene-d12,	Benzo(g,h,i)perylene,	
0451	NT1420100724.D	SIJ0085-CCV1	1	Benzo(b)fluoranthene,	Benzo(k)fluoranthene,	Indeno(1,2,3-cd)pyrene,	Total Benzofluoranthenes,	Benzo(j)fluoranthene	

Security Status Report

Date: 09-Oct-2020 11:05

NT1420100701.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100702.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100703.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100704.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100705.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100706.D	Data Locked	van,	09-Oct-2020	11:05
NT1420100707.D	Data Locked	van,	09-Oct-2020	11:05
NT1420100708.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100709.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100710.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100711.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100712.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100713.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100714.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100715.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100716.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100717.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100718.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100719.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100720.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100721.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100722.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100723.D	Data Locked	van,	09-Oct-2020	08:47
NT1420100724.D	Data Locked	van,	09-Oct-2020	08:47



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0286

Instrument: NT14

Calibration: DJ00029

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SIJ0286-TUN1	NT1420102001.D	NA	10/20/20 09:45
Initial Cal Check	SIJ0286-ICV1	NT1420102002.D	NA	10/20/20 09:59
Blank	BIJ0442-BLK1	NT1420102003.D	Solid	10/20/20 10:58
LCS	BIJ0442-BS1	NT1420102004.D	Solid	10/20/20 11:47
USMPDI-055SG-201006	20J0121-01	NT1420102005.D	Solid	10/20/20 12:35
ZZZZZ	20J0122-01	NT1420102006.D	Solid	10/20/20 13:24
ZZZZZ	20J0036-01	NT1420102007.D	Solid	10/20/20 14:12
ZZZZZ	20J0036-02	NT1420102008.D	Solid	10/20/20 15:17
ZZZZZ	20J0037-01	NT1420102009.D	Solid	10/20/20 16:06
ZZZZZ	20J0037-02	NT1420102010.D	Solid	10/20/20 16:55
ZZZZZ	20J0037-03	NT1420102011.D	Solid	10/20/20 17:43
ZZZZZ	20J0122-02	NT1420102014.D	Solid	10/20/20 20:08
ZZZZZ	20I0414-01RE1	NT1420102015.D	Solid	10/20/20 20:57
ZZZZZ	20I0414-02RE1	NT1420102016.D	Solid	10/20/20 21:45
Calibration Check	SIJ0286-CCV1	NT1420102018.D	NA	10/20/20 23:21



ANALYSIS SEQUENCE

SIJ0286

Instrument: NT14 Element Column ID: I005863
Calibration ID: DJ00029 Tune File: 200104.U
EM Voltage: 1905

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0286-TUN1	MS Tune	QC		1	I007631		
SIJ0286-ICV1	Initial Cal Check	QC		2	I007920	I007919	
BIJ0442-BLK1	Blank	QC		3		I007919	
BIJ0442-BS1	LCS	QC		4		I007919	
20J0121-01	USMPDI-055SG-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	5		I007919	
20J0122-01	NCPDI-072SG-00-10.3-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	6		I007919	
20J0036-01	NCPDI-023SG-201001	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	7		I007919	
20J0036-02	NCPDI-024SG-201001	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	8		I007919	
20J0037-01	NCPDI-017SG-200930	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	9		I007919	
20J0037-02	NCPDI-1017SG-200930	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	10		I007919	
20J0037-03	NCPDI-022SG-200930	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	11		I007919	
BIJ0442-MS1	Matrix Spike	QC		12		I007919	
BIJ0442-MSD1	Matrix Spike Dup	QC		13		I007919	
20J0122-02	NCPDI-073SG-00-9.2-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	14		I007919	
20I0414-01RE1	NCPDI-016SG-200924	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 01	15		I007919	Added 10/20/2020 by YZ
20I0414-02RE1	NCPDI-019SG-200924	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 01	16		I007919	Added 10/20/2020 by YZ
SIJ0286-CCV1	Calibration Check	QC		17	I007920	I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201020.b

Time	Filename	LabID	ClientId	DF							
1	0945	NT1420102001.D	SIJ0286-TUN1		1	NO	ISTDS	FOUND			
2	0959	NT1420102002.D	SIJ0286-ICV1		1	18.62	215838	22.05	194812	32.90	284140
3	1058	NT1420102003.D	BIJ0442-BLK1		1	18.62	241890	22.05	218488	32.90	329670
4	1147	NT1420102004.D	BIJ0442-BS1		1	18.62	240149	22.05	214491	32.90	320538
5	1235	NT1420102005.D	20J0121-01		5	18.62	248281	22.05	223022	32.90	333697
6	1324	NT1420102006.D	20J0122-01		5	18.62	243512	22.06	221288	32.91	343782
7	1412	NT1420102007.D	20J0036-01		1	18.62	256661	22.05	229292	32.90	335678
8	1517	NT1420102008.D	20J0036-02		5	18.62	242271	22.06	223953	32.93	360665
9	1606	NT1420102009.D	20J0037-01		1	18.62	242339	22.05	225649	32.91	347763
10	1655	NT1420102010.D	20J0037-02		1	18.62	250452	22.06	226906	32.91	353365
11	1743	NT1420102011.D	20J0037-03		5	18.62	255032	22.06	233450	32.91	365883
12	1831	NT1420102012.D	BIJ0442-MS1		5	18.62	254731	22.06	236440	32.91	353183
13	1920	NT1420102013.D	BIJ0442-MSD1		5	18.62	254769	22.06	233666	32.91	354466
14	2008	NT1420102014.D	20J0122-02		1	18.62	251801	22.06	230753	32.91	362969
15	2057	NT1420102015.D	20I0414-01RE1		250	18.62	256610	22.05	243010	32.90	344256
16	2145	NT1420102016.D	20I0414-02RE1		250	18.62	255570	22.05	242103	32.90	350409
17	2233	NT1420102017.D	20I0414-03RE1		10	18.62	245427	22.06	224104	32.90	328577
18	2321	NT1420102018.D	SIJ0286-CCV1		1	18.62	219385	22.05	204003	32.90	284749

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201020.b

Instrument: nt14.i Date: 20-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
0945	NT1420102001.D	SIJ0286-TUN1	1	NO MANUAL INTEGRATION
0959	NT1420102002.D	SIJ0286-ICV1	1	Total Benzofluoranthenes,
1058	NT1420102003.D	BIJ0442-BLK1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
1147	NT1420102004.D	BIJ0442-BS1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene,
1235	NT1420102005.D	20J0121-01	5	Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Benzo(j)fluoranthene,
1324	NT1420102006.D	20J0122-01	5	Dibenzofuran, Carbazole, Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzofluoranthene, Benzo(j)fluoranthene,
1412	NT1420102007.D	20J0036-01	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes,
1517	NT1420102008.D	20J0036-02	5	2-Methylnaphthalene, Dibenzofuran, Carbazole, Benzo(b)fluoranthene, Benzo(k)fluoranthene, 1-methylnaphthalene, Biphenyl, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Perylene-d12,
1606	NT1420102009.D	20J0037-01	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 1-methylnaphthalene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes
1655	NT1420102010.D	20J0037-02	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes,
1743	NT1420102011.D	20J0037-03	5	Dibenzofuran, Benzo(k)fluoranthene, 1-methylnaphthalene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Be
1831	NT1420102012.D	BIJ0442-MS1	5	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
1920	NT1420102013.D	BIJ0442-MSD1	5	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
2008	NT1420102014.D	20J0122-02	1	Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Benzo(j)fluoranthene,
2057	NT1420102015.D	20I0414-01RE1	250	Benzo(b)fluoranthene, Naphthalene-d8, Benzo(k)fluoranthene, Acenaphthene-d10, Indeno(1,2,3-cd)pyrene, Phenanthrene-d10, Dibenzo(a,h)anthracene, Perylene-d12, 2,6-Dimethylnaphthalen
2145	NT1420102016.D	20I0414-02RE1	250	Benzo(b)fluoranthene, Phenanthrene-d10, Benzo(k)fluoranthene, Perylene-d12, Dibenzo(a,h)anthracene, 2,6-Dimethylnaphthalene, Total Benzofluoranthene
2233	NT1420102017.D	20I0414-03RE1	10	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 20-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
2321	NT1420102018.D	SIJ0286-CCV1	1	Benzo(k)fluoranthene, Total Benzofluoranthenes, Benzo(j)fluoranthene,

Security Status Report

Date: 21-Oct-2020 14:24

NT1420102001.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102002.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102003.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102004.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102005.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102006.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102007.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102008.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102009.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102010.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102011.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102012.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102013.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102014.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102015.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102016.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102017.D	Data Locked	van, 21-Oct-2020 14:24
NT1420102018.D	Data Locked	van, 21-Oct-2020 14:24



Extract Dilution Bench Sheet

Sequence: SI50286
Analyst: VB Date: 10/21/2020

Sample ID	Primary Dilution				Secondary Dilution			
	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor	Extract Volume (uL)	Diluent ID	Diluent Volume (uL)	Dilution Factor
2050121 / 122-1	100	DCM	400	5				
2050036-02	100	DCM	400	5				
2050037-03, MS, MSD	100	DCM	400	5				
20I0414-02, 01	100	DCM	400	5	10	DCM	490	250
20I0414-03	100	DCM	400	5	500	DCM	500	10



ANALYSIS SEQUENCE

SIJ0287

Instrument: NT14 Element Column ID: i005863
Calibration ID: DJ00029 Tune File: 200104u
EM Voltage: 1806

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0287-ICV1	Initial Cal Check	QC		1	I008041	I007919	
BIJ0442-BLK2	Blank	QC		2		I007919	
20J0036-01	NCPDI-023SG-201001	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	3		I007919	
20J0036-02	NCPDI-024SG-201001	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	4		I007919	
20J0037-01	NCPDI-017SG-200930	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	5		I007919	
20J0037-02	NCPDI-1017SG-200930	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	6		I007919	
20J0037-03	NCPDI-022SG-200930	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	7		I007919	
20J0121-01	USMPDI-055SG-201006	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	8		I007919	
20J0122-01	NCPDI-072SG-00-10.3-201006	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	9		I007919	
20J0122-02	NCPDI-073SG-00-9.2-201006	8270E-SIM Alkyl PAH (Range) Dual Scan	A 03	10		I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201020.b

Time	Filename	LabID	ClientId	DF					
1	0945	NT1420102001.D	SIJ0286-TUN1	1	NO ISTDS FOUND				
2	0959	NT1420102002.D	SIJ0286-ICV1	1	18.62	215838	22.05	194812	32.90 284140
3	1058	NT1420102003.D	BIJ0442-BLK1	1	18.62	241890	22.05	218488	32.90 329670
4	1147	NT1420102004.D	BIJ0442-BS1	1	18.62	240149	22.05	214491	32.90 320538
5	1235	NT1420102005.D	20J0121-01	5	18.62	248281	22.05	223022	32.90 333697
6	1324	NT1420102006.D	20J0122-01	5	18.62	243512	22.06	221288	32.91 343782
7	1412	NT1420102007.D	20J0036-01	1	18.62	256661	22.05	229292	32.90 335678
8	1517	NT1420102008.D	20J0036-02	5	18.62	242271	22.06	223953	32.93 360665
9	1606	NT1420102009.D	20J0037-01	1	18.62	242339	22.05	225649	32.91 347763
10	1655	NT1420102010.D	20J0037-02	1	18.62	250452	22.06	226906	32.91 353365
11	1743	NT1420102011.D	20J0037-03	5	18.62	255032	22.06	233450	32.91 365883
12	1831	NT1420102012.D	BIJ0442-MS1	5	18.62	254731	22.06	236440	32.91 353183
13	1920	NT1420102013.D	BIJ0442-MSD1	5	18.62	254769	22.06	233666	32.91 354466
14	2008	NT1420102014.D	20J0122-02	1	18.62	251801	22.06	230753	32.91 362969
15	2057	NT1420102015.D	20I0414-01RE1	250	18.62	256610	22.05	243010	32.90 344256
16	2145	NT1420102016.D	20I0414-02RE1	250	18.62	255570	22.05	242103	32.90 350409
17	2233	NT1420102017.D	20I0414-03RE1	10	18.62	245427	22.06	224104	32.90 328577
18	2321	NT1420102018.D	SIJ0286-CCV1	1	18.62	219385	22.05	204003	32.90 284749

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201020.b

Instrument: nt14.i Date: 20-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
0945	NT1420102001.D	SIJ0286-TUN1	1	NO MANUAL INTEGRATION
0959	NT1420102002.D	SIJ0286-ICV1	1	Total Benzo(a)fluoranthenes,
1058	NT1420102003.D	BIJ0442-BLK1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzo(a)fluoranthenes,
1147	NT1420102004.D	BIJ0442-BS1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene,
1235	NT1420102005.D	20J0121-01	5	Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Benzo(j)fluoranthene,
1324	NT1420102006.D	20J0122-01	5	Dibenzofuran, Carbazole, Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Benzo(j)fluoranthene,
1412	NT1420102007.D	20J0036-01	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes,
1517	NT1420102008.D	20J0036-02	5	2-Methylnaphthalene, Dibenzofuran, Carbazole, Benzo(b)fluoranthene, Benzo(k)fluoranthene, 1-methylnaphthalene, Biphenyl, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Perylene-d12,
1606	NT1420102009.D	20J0037-01	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 1-methylnaphthalene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes,
1655	NT1420102010.D	20J0037-02	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes,
1743	NT1420102011.D	20J0037-03	5	Dibenzofuran, Benzo(k)fluoranthene, 1-methylnaphthalene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Be
1831	NT1420102012.D	BIJ0442-MS1	5	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzo(a)fluoranthenes,
1920	NT1420102013.D	BIJ0442-MSD1	5	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzo(a)fluoranthenes,
2008	NT1420102014.D	20J0122-02	1	Benzo(k)fluoranthene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Benzo(j)fluoranthene,
2057	NT1420102015.D	20I0414-01RE1	250	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, 2,6-Dimethylnaphthalene, Naphthalene-d8, Acenaphthene-d10, Phenanthrene-d10, Perylene-d12,
2145	NT1420102016.D	20I0414-02RE1	250	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, 2,6-Dimethylnaphthalene, Total Benzo(a)fluoranthenes, Phenanthrene-d10, Perylene-d12,
2233	NT1420102017.D	20I0414-03RE1	10	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 20-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
2321	NT1420102018.D	SIJ0286-CCV1	1	Benzo(k)fluoranthene, Total Benzofluoranthenes, Benzo(j)fluoranthene,

Security Status Report

Date: 23-Oct-2020 15:40

NT1420102002S.D	Data Locked	yev, 23-
NT1420102003S.D	Data Locked	yev, 23-
NT1420102004S.D	Data Locked	yev, 23-
NT1420102005S.D	Data Locked	yev, 23-
NT1420102006S.D	Data Locked	yev, 23-
NT1420102007S.D	Data Locked	yev, 23-
NT1420102008S.D	Data Locked	yev, 23-
NT1420102009S.D	Data Locked	yev, 23-
NT1420102010S.D	Data Locked	yev, 23-
NT1420102011S.D	Data Locked	yev, 23-
NT1420102012S.D	Data Locked	yev, 23-
NT1420102013S.D	Data Locked	yev, 23-
NT1420102014S.D	Data Locked	yev, 23-



ANALYSIS SEQUENCE

SIJ0333

Instrument: NT14 Element Column ID: I005863
Calibration ID: DJ00029 Tune File: 200104.U
EM Voltage: 1905

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0333-TUN1	MS Tune	QC		1	I007631		
SIJ0333-ICV1	Initial Cal Check	QC		2	I007920	I007919	
BIJ0173-BLK1	Blank	QC		3		I007919	
BIJ0173-BS1	LCS	QC		4		I007919	
BIJ0173-BSD1	LCS Dup	QC		5		I007919	
20I0504-01	SG-RB-2009291307	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 01	6		I007919	
20I0414-03RE1	NCPDI-069SG-200924	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 01	7		I007919	Added 10/20/2020 by YZ
20J0121-01RE1	USMPDI-055SG-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	8		I007919	Added 10/22/2020 by VTS
20J0122-01RE1	NCPDI-072SG-00-10.3-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 03	9		I007919	Added 10/22/2020 by VTS
20J0036-02RE1	NCPDI-024SG-201001	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	10		I007919	Added 10/22/2020 by VTS
20J0037-03RE1	NCPDI-022SG-200930	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	11		I007919	Added 10/22/2020 by VTS
20J0122-02RE1	NCPDI-073SG-00-9.2-201006	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	12		I007919	Added 10/22/2020 by VTS
SIJ0333-CCV1	Calibration Check	QC		13	I007920	I007919	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201022.b

Time	Filename	LabID	ClientId	DF							
1	0948	NT1420102201.D	SIJ0333-TUN1		1	NO	ISTDS	FOUND			
2	1001	NT1420102202.D	SIJ0333-ICV1		1	18.62	202686	22.05	182635	32.90	271919
3	1056	NT1420102203.D	BIJ0173-BLK1		1	18.62	242577	22.05	203301	32.90	322053
4	1144	NT1420102204.D	BIJ0173-BS1		1	18.62	238695	22.05	203714	32.90	318108
5	1232	NT1420102205.D	BIJ0173-BSD1		1	18.61	239666	22.05	204426	32.90	314389
6	1320	NT1420102206.D	20I0504-01		1	18.61	239793	22.05	198849	32.90	315324
7	1408	NT1420102207.D	20I0414-03RE1		10	18.61	227042	22.05	206907	32.90	299174
8	1456	NT1420102208.D	20J0121-01RE1		10	18.62	249253	22.05	224396	32.90	324241
9	1544	NT1420102209.D	20J0122-01RE1		50	18.62	245358	22.05	226053	32.90	335728
10	1632	NT1420102210.D	20J0036-02RE1		100	18.62	246930	22.05	228417	32.90	323698
11	1720	NT1420102211.D	20J0037-03RE1		100	18.62	231115	22.05	215229	32.90	313540
12	1808	NT1420102212.D	20J0122-02RE1		25	18.61	237187	22.05	217528	32.90	332991
13	1856	NT1420102213.D	SIJ0333-CCV1		1	18.62	213667	22.05	192926	32.90	273566

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201022.b

Instrument: nt14.i Date: 22-OCT-2020

Time	Filename	LabID	DF	Manually Integrated Compounds
0948	NT1420102201.D	SIJ0333-TUN1	1	NO MANUAL INTEGRATION
1001	NT1420102202.D	SIJ0333-ICV1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Total Benzofluoranthenes
1056	NT1420102203.D	BIJ0173-BLK1	1	NO MANUAL INTEGRATION
1144	NT1420102204.D	BIJ0173-BS1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, Total Benzofluoranthenes, Perylene-d12,
1232	NT1420102205.D	BIJ0173-BSD1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Perylene-d12,
1320	NT1420102206.D	20I0504-01	1	NO MANUAL INTEGRATION
1408	NT1420102207.D	20I0414-03RE1	10	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, 2,6-Dimethylnaphthalene
1456	NT1420102208.D	20J0121-01RE1	10	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene, 2,6-Dimethylnaphthalene, Total Benzofluoranthene
1544	NT1420102209.D	20J0122-01RE1	50	Dibenzofuran, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthra Benzo(g,h,i)perylene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Phenanthrene-d10, Perylene-d12,
1632	NT1420102210.D	20J0036-02RE1	100	Dibenzofuran, Chrysene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthra Benzo(g,h,i)perylene, 2,6-Dimethylnaphthalene, Total Benzofluoranthenes, Phenanthrene-d10, Perylene-d12,
1720	NT1420102211.D	20J0037-03RE1	100	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Total Benzofluoranthenes, Phenanthrene-d10, Perylene-d12,
1808	NT1420102212.D	20J0122-02RE1	25	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Be Total Benzofluoranthenes, Phenanthrene-d10,
1856	NT1420102213.D	SIJ0333-CCV1	1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene,

Security Status Report

Date: 23-Oct-2020 08:25

NT1420102201.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102202.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102203.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102204.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102205.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102206.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102207.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102208.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102209.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102210.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102211.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102212.D	Data Locked	van, 23-Oct-2020 08:25
NT1420102213.D	Data Locked	van, 23-Oct-2020 08:25



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0085

Instrument: NT14

Calibration: DJ00029

Calibration Date: 10/07/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0085-ICB1 (Solid) Lab File ID: NT1420100710.D Analyzed: 10/07/20 17:33								
Naphthalene-d8	2.5000	105	30 - 160	11.641	11.64283	-0.0018	N/A	
Acenaphthene-d10	2.5000	98.6	30 - 160	17.103	17.10483	-0.0018	N/A	
Phenanthrene-d10	2.5000	110	30 - 160	21.963	21.96483	-0.0018	N/A	
Chrysene-d12	2.5000	106	30 - 160	29.974	29.9685	0.0055	N/A	
Perylene-d12	2.5000	103	30 - 160	33.263	33.26483	-0.0018	N/A	
SIJ0085-ICV1 (Solid) Lab File ID: NT1420100711.D Analyzed: 10/07/20 18:22								
Naphthalene-d8	2.5000	105	80 - 120	11.641	11.64283	-0.0018	N/A	
Acenaphthene-d10	2.5000	104	80 - 120	17.103	17.10483	-0.0018	N/A	
Phenanthrene-d10	2.5000	105	80 - 120	21.963	21.96483	-0.0018	N/A	
Chrysene-d12	2.5000	99.6	80 - 120	29.974	29.9685	0.0055	N/A	
Perylene-d12	2.5000	102	80 - 120	33.263	33.26483	-0.0018	N/A	
SIJ0085-CCV1 (Solid) Lab File ID: NT1420100724.D Analyzed: 10/08/20 04:51								
Naphthalene-d8	2.5000	105	50 - 150	11.641	11.64283	-0.0018	N/A	
Acenaphthene-d10	2.5000	102	50 - 150	17.103	17.10483	-0.0018	N/A	
Phenanthrene-d10	2.5000	103	50 - 150	21.952	21.96483	-0.0128	N/A	
Chrysene-d12	2.5000	101	50 - 150	29.963	29.9685	-0.0055	N/A	
Perylene-d12	2.5000	100	50 - 150	33.263	33.26483	-0.0018	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0286

Instrument: NT14

Calibration: DJ00029

Calibration Date: 10/07/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0286-ICV1 (Water)			Lab File ID: NT1420102002.D			Analyzed: 10/20/20 09:59		
Naphthalene-d8	2.5000	128	80 - 120	11.63	11.64283	-0.0128	N/A	*
Acenaphthene-d10	2.5000	104	0 - 200	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	2.5000	106	0 - 200	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	2.5000	99.9	0 - 200	29.94	29.9685	-0.0285	N/A	
Perylene-d12	2.5000	100	0 - 200	33.24	33.26483	-0.0248	N/A	
BIJ0442-BLK1 (Solid)			Lab File ID: NT1420102003.D			Analyzed: 10/20/20 10:58		
Naphthalene-d8	150.00	55.5	30 - 160	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	150.00	52.3	30 - 160	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	150.00	74.6	30 - 160	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	150.00	69.8	30 - 160	29.94	29.9685	-0.0285	N/A	
Perylene-d12	150.00	65.4	30 - 160	33.241	33.26483	-0.0238	N/A	
BIJ0442-BS1 (Solid)			Lab File ID: NT1420102004.D			Analyzed: 10/20/20 11:47		
Naphthalene-d8	150.00	58.0	30 - 160	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	150.00	54.8	30 - 160	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	150.00	79.7	30 - 160	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	150.00	74.3	30 - 160	29.94	29.9685	-0.0285	N/A	
Perylene-d12	150.00	67.8	30 - 160	33.241	33.26483	-0.0238	N/A	
20J0121-01 (Solid)			Lab File ID: NT1420102005.D			Analyzed: 10/20/20 12:35		
Naphthalene-d8	149.84	47.4	30 - 160	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	149.84	57.3	30 - 160	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	149.84	80.5	30 - 160	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	149.84	62.1	30 - 160	29.952	29.9685	-0.0165	N/A	
Perylene-d12	149.84	62.9	30 - 160	33.24	33.26483	-0.0248	N/A	
SIJ0286-CCV1 (Water)			Lab File ID: NT1420102018.D			Analyzed: 10/20/20 23:21		
Naphthalene-d8	2.5000	128	0 - 200	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	2.5000	106	0 - 200	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	2.5000	102	0 - 200	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	2.5000	98.1	0 - 200	29.952	29.9685	-0.0165	N/A	
Perylene-d12	2.5000	99.0	0 - 200	33.241	33.26483	-0.0238	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0333

Instrument: NT14

Calibration: DJ00029

Calibration Date: 10/07/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0333-ICV1 (Solid) Lab File ID: NT1420102202.D Analyzed: 10/22/20 10:01								
Naphthalene-d8	2.5000	126	80 - 120	11.63	11.64283	-0.0128	N/A	*
Acenaphthene-d10	2.5000	105	80 - 120	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	2.5000	123	80 - 120	21.941	21.96483	-0.0238	N/A	*
Chrysene-d12	2.5000	94.5	80 - 120	29.94	29.9685	-0.0285	N/A	
Perylene-d12	2.5000	98.7	80 - 120	33.241	33.26483	-0.0238	N/A	
20J0121-01RE1 (Solid) Lab File ID: NT1420102208.D Analyzed: 10/22/20 14:56								
Naphthalene-d8	149.84	46.6	30 - 160	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	149.84	56.9	30 - 160	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	149.84	79.0	30 - 160	21.93	21.96483	-0.0348	N/A	
Chrysene-d12	149.84	64.4	30 - 160	29.94	29.9685	-0.0285	N/A	
Perylene-d12	149.84	71.2	30 - 160	33.24	33.26483	-0.0248	N/A	
SIJ0333-CCV1 (Solid) Lab File ID: NT1420102213.D Analyzed: 10/22/20 18:56								
Naphthalene-d8	2.5000	124	50 - 150	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	2.5000	104	50 - 150	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	2.5000	101	50 - 150	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	2.5000	95.9	50 - 150	29.94	29.9685	-0.0285	N/A	
Perylene-d12	2.5000	97.9	50 - 150	33.24	33.26483	-0.0248	N/A	



INTERNAL STANDARD AREA AND RT SUMMARY EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIJ0085

Instrument: NT14

Calibration: DJ00029

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SIJ0085-SCV1)		(Solid)	Lab File ID: NT1420100709.D			Analyzed: 10/07/20 16:45			
Fluorene-d10	189405	18.632	209596	18.632	90	50 - 200	0.000	+/-0.50	
Anthracene-d10	203362	22.072	192407	22.072	106	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	288304	32.925	274120	32.925	105	50 - 200	0.000	+/-0.50	
Initial Cal Blank (SIJ0085-ICB1)		(Solid)	Lab File ID: NT1420100710.D			Analyzed: 10/07/20 17:33			
Fluorene-d10	209569	18.632	209596	18.632	100	50 - 200	0.000	+/-0.50	
Anthracene-d10	195015	22.073	192407	22.072	101	50 - 200	0.001	+/-0.50	
Benzo(e)pyrene-d12	275049	32.925	274120	32.925	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SIJ0085-ICV1)		(Solid)	Lab File ID: NT1420100711.D			Analyzed: 10/07/20 18:22			
Fluorene-d10	209596	18.632	209596	18.632	100	50 - 200	0.000	+/-0.50	
Anthracene-d10	192407	22.072	192407	22.072	100	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	274120	32.925	274120	32.925	100	50 - 200	0.000	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIJ0286

Instrument: NT14

Calibration: DJ00029

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIJ0286-ICV1)		(Water)	Lab File ID: NT1420102002.D			Analyzed: 10/20/20 09:59			
Fluorene-d10	215838	18.621	215838	18.621	100	50 - 200	0.000	+/-0.50	
Anthracene-d10	194812	22.051	194812	22.051	100	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	284140	32.902	284140	32.902	100	50 - 200	0.000	+/-0.50	
Blank (BIJ0442-BLK1)		(Solid)	Lab File ID: NT1420102003.D			Analyzed: 10/20/20 10:58			
Fluorene-d10	241890	18.621	215838	18.621	112	50 - 200	0.000	+/-0.50	
Anthracene-d10	218488	22.051	194812	22.051	112	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	329670	32.903	284140	32.902	116	50 - 200	0.001	+/-0.50	
LCS (BIJ0442-BS1)		(Solid)	Lab File ID: NT1420102004.D			Analyzed: 10/20/20 11:47			
Fluorene-d10	240149	18.621	215838	18.621	111	50 - 200	0.000	+/-0.50	
Anthracene-d10	214491	22.051	194812	22.051	110	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	320538	32.903	284140	32.902	113	50 - 200	0.001	+/-0.50	
USMPDI-055SG-201006 (20J0121-01)		(Solid)	Lab File ID: NT1420102005.D			Analyzed: 10/20/20 12:35			
Fluorene-d10	248281	18.621	215838	18.621	115	50 - 200	0.000	+/-0.50	
Anthracene-d10	223022	22.051	194812	22.051	114	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	333697	32.903	284140	32.902	117	50 - 200	0.001	+/-0.50	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIJ0287

Instrument: NT14

Calibration: DI00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BIJ0442-BLK2)		(Solid)	Lab File ID: NT1420102003S.D			Analyzed: 10/20/20 10:58			
Fluorene-d10	227691	18.611	205426	18.611	111	50 - 200		+/-0.50	
Anthracene-d10	242108	22.052	218653	22.041	111	50 - 200		+/-0.50	
Benzo(e)pyrene-d12	367085	32.904	312750	32.904	117	50 - 200		+/-0.50	
USMPDI-055SG-201006 (20J0121-01)		(Solid)	Lab File ID: NT1420102005S.D			Analyzed: 10/20/20 12:35			
Fluorene-d10	232212	18.611	205426	18.611	113	50 - 200		+/-0.50	
Anthracene-d10	247206	22.052	218653	22.041	113	50 - 200		+/-0.50	
Benzo(e)pyrene-d12	371371	32.904	312750	32.904	119	50 - 200		+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIJ0333

Instrument: NT14

Calibration: DJ00029

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIJ0333-ICV1)		(Solid)	Lab File ID: NT1420102202.D			Analyzed: 10/22/20 10:01			
Fluorene-d10	202686	18.621	202686	18.621	100	50 - 200	0.000	+/-0.50	
Anthracene-d10	182635	22.051	182635	22.051	100	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	271919	32.903	271919	32.903	100	50 - 200	0.000	+/-0.50	
USMPDI-055SG-201006 (20J0121-01RE1)		(Solid)	Lab File ID: NT1420102208.D			Analyzed: 10/22/20 14:56			
Fluorene-d10	249253	18.621	202686	18.621	123	50 - 200	0.000	+/-0.50	
Anthracene-d10	224396	22.051	182635	22.051	123	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	324241	32.903	271919	32.903	119	50 - 200	0.000	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

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
USMPDI-055SG-201006 20J0121-01	10/06/20 15:56	10/08/20 11:08	10/14/20 11:58	7	14	10/20/20 12:35	6	40	
USMPDI-055SG-201006 20J0121-01	10/06/20 15:56	10/08/20 11:08	10/14/20 11:58	7	14	10/20/20 12:35	6	40	
USMPDI-055SG-201006 20J0121-01RE1	10/06/20 15:56	10/08/20 11:08	10/14/20 11:58	7	14	10/22/20 14:56	8	40	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Solid

Instrument: NT14

Analyte	MDL	RL	Units
trans-Decalin	0.03	5.0	ug/kg
cis-Decalin	0.5	5.0	ug/kg
Naphthalene	0.4	5.0	ug/kg
1-Methylnaphthalene	0.4	5.0	ug/kg
2-Methylnaphthalene	0.4	5.0	ug/kg
Biphenyl	0.3	5.0	ug/kg
2,6-Dimethylnaphthalene	0.4	5.0	ug/kg
Acenaphthylene	0.3	5.0	ug/kg
Acenaphthene	0.5	5.0	ug/kg
Dibenzofuran	0.4	5.0	ug/kg
2,3,5-Trimethylnaphthalene	0.4	5.0	ug/kg
Fluorene	0.5	5.0	ug/kg
Benzo(b)thiophene	0.4	5.0	ug/kg
Phenanthrene	0.9	5.0	ug/kg
Anthracene	0.05	5.0	ug/kg
Carbazole	0.7	5.0	ug/kg
1-Methylphenanthrene	0.5	5.0	ug/kg
Fluoranthene	1.4	5.0	ug/kg
Dibenzothiophene	0.7	5.0	ug/kg
Pyrene	1.0	5.0	ug/kg
Benzo(a)anthracene	1.4	5.0	ug/kg
Chrysene	0.7	5.0	ug/kg
Benzo(b)fluoranthene	0.8	5.0	ug/kg
Benzo(j)fluoranthene	0.7	5.0	ug/kg
Benzo(k)fluoranthene	0.8	5.0	ug/kg
Benzofluoranthenes, Total	3.0	10.0	ug/kg
Benzo(e)pyrene	0.6	5.0	ug/kg
Benzo(a)pyrene	1.0	5.0	ug/kg
Indeno(1,2,3-cd)pyrene	0.4	5.0	ug/kg
Dibenzo(a,h)anthracene	0.7	5.0	ug/kg
Benzo(g,h,i)perylene	0.5	5.0	ug/kg
Perylene	0.4	5.0	ug/kg
Benzo(b)naphtho(2,1-d)thiophene	5.0	5.0	ug/kg
C1-Decalins	0.5	5.0	ug/kg
C2-Decalins	0.5	5.0	ug/kg
C3-Decalins	0.5	5.0	ug/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Solid

Instrument: NT14

Analyte	MDL	RL	Units
C4-Decalins	0.5	5.0	ug/kg
C1-Naphthalenes	0.4	5.0	ug/kg
C2-Naphthalenes	0.4	5.0	ug/kg
C3-Naphthalenes	0.4	5.0	ug/kg
C4-Naphthalenes	0.4	5.0	ug/kg
C1-Fluorenes	0.5	5.0	ug/kg
C2-Fluorenes	0.5	5.0	ug/kg
C3-Fluorenes	0.5	5.0	ug/kg
C1-Dibenzothiophenes	0.7	5.0	ug/kg
C2-Dibenzothiophenes	0.7	5.0	ug/kg
C3-Dibenzothiophenes	0.7	5.0	ug/kg
C4-Dibenzothiophenes	0.7	5.0	ug/kg
C1-Phenanthrenes/Anthracenes	0.9	5.0	ug/kg
C2-Phenanthrenes/Anthracenes	0.9	5.0	ug/kg
C3-Phenanthrenes/Anthracenes	0.9	5.0	ug/kg
C4-Phenanthrenes/Anthracenes	0.9	5.0	ug/kg
C1-Fluoranthenes/Pyrenes	1.0	5.0	ug/kg
C2-Fluoranthenes/Pyrenes	1.0	5.0	ug/kg
C3-Fluoranthenes/Pyrenes	1.0	5.0	ug/kg
C4-Fluoranthenes/Pyrenes	1.0	5.0	ug/kg
C1-Benzo(a)anthracenes/Chrysenes	0.7	5.0	ug/kg
C2-Benzo(a)anthracenes/Chrysenes	0.7	5.0	ug/kg
C3-Benzo(a)anthracenes/Chrysenes	0.7	5.0	ug/kg
C4-Benzo(a)anthracenes/Chrysenes	0.7	5.0	ug/kg
C1-Benzothiophenes	0.4	5.0	ug/kg
C2-Benzothiophenes	0.4	5.0	ug/kg
C3-Benzothiophenes	0.4	5.0	ug/kg
C1-Naphthobenzothiophenes	2.5	5.0	ug/kg
C2-Naphthobenzothiophenes	2.5	5.0	ug/kg
C3-Naphthobenzothiophenes	2.5	5.0	ug/kg
C4-Naphthobenzothiophenes	2.5	5.0	ug/kg
C1-Dibenzo(a)anthracenes	0.7	5.0	ug/kg
C2-Dibenzo(a)anthracenes	0.7	5.0	ug/kg
C3-Dibenzo(a)anthracenes	0.7	5.0	ug/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Instrument: NT14

Analyte	MDL	RL	Units
trans-Decalin	0.007	0.100	ug/L
cis-Decalin	0.007	0.100	ug/L
Naphthalene	0.011	0.100	ug/L
1-Methylnaphthalene	0.010	0.100	ug/L
2-Methylnaphthalene	0.010	0.100	ug/L
Biphenyl	0.012	0.100	ug/L
2,6-Dimethylnaphthalene	0.013	0.100	ug/L
Acenaphthylene	0.006	0.100	ug/L
Acenaphthene	0.011	0.100	ug/L
Dibenzofuran	0.009	0.100	ug/L
2,3,5-Trimethylnaphthalene	0.008	0.100	ug/L
Fluorene	0.007	0.100	ug/L
Benzo(b)thiophene	0.009	0.100	ug/L
Phenanthrene	0.009	0.100	ug/L
Anthracene	0.025	0.100	ug/L
Carbazole	0.028	0.100	ug/L
1-Methylphenanthrene	0.005	0.100	ug/L
Fluoranthene	0.007	0.100	ug/L
Dibenzothiophene	0.021	0.100	ug/L
Pyrene	0.014	0.100	ug/L
Benzo(a)anthracene	0.017	0.100	ug/L
Chrysene	0.010	0.100	ug/L
Benzo(b)fluoranthene	0.010	0.100	ug/L
Benzo(j)fluoranthene	0.038	0.100	ug/L
Benzo(k)fluoranthene	0.010	0.100	ug/L
Benzo(a)fluoranthenes, Total	0.085	0.200	ug/L
Benzo(e)pyrene	0.014	0.100	ug/L
Benzo(a)pyrene	0.022	0.100	ug/L
Indeno(1,2,3-cd)pyrene	0.014	0.100	ug/L
Dibenzo(a,h)anthracene	0.013	0.100	ug/L
Benzo(g,h,i)perylene	0.009	0.100	ug/L
Perylene	0.032	0.100	ug/L
Benzo(b)naphtho(2,1-d)thiophene	0.100	0.100	ug/L



Form I
ORGANIC ANALYSIS DATA SHEET
NWTPH-Dx
TPH (Extractables)

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Sediment

Laboratory ID: 20J0121-01 A

SDG: 20J0121

Sampled: 10/06/20 15:56

Prepared: 10/14/20 10:15

File ID: 420J1512.D

% Solids: 38.71

Preparation: EPA 3546 (Microwave)

Analyzed: 10/15/20 15:43

Batch: BIJ0402

Sequence: SIJ0272

Initial/Final: 10.05 g Wet / 10 mL

Instrument: FID4

Column: RTX-1

Calibration: DA00022

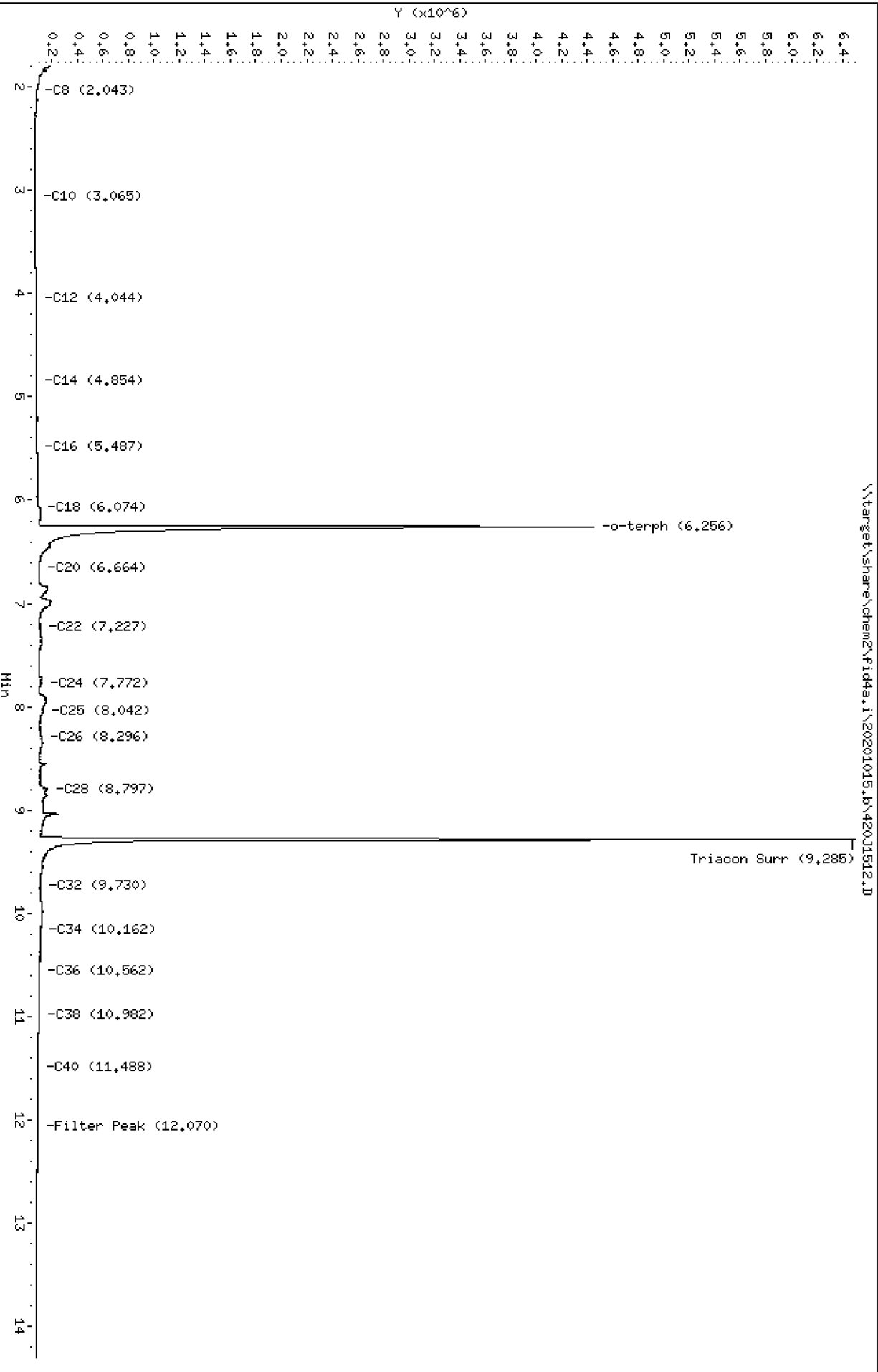
CAS NO.	COMPOUND	DILUTION	CONC: (mg/kg dry)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	133		52.3	129
RRO	Motor Oil Range Organics (C24-C38)	1	257	U	54.0	257

SURROGATES	ADDED: (mg/kg dry)	FOUND: (mg/kg dry)	% REC	QC LIMITS	Q
o-Terphenyl	144.59	87.4	60.4	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20201015,8\4201512.D
Date: 15-OCT-2020 15:43
Client ID:
Sample Info: 20J0121-01

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1512.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: 20J0121-01
Client ID:
Injection: 15-OCT-2020 15:43
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

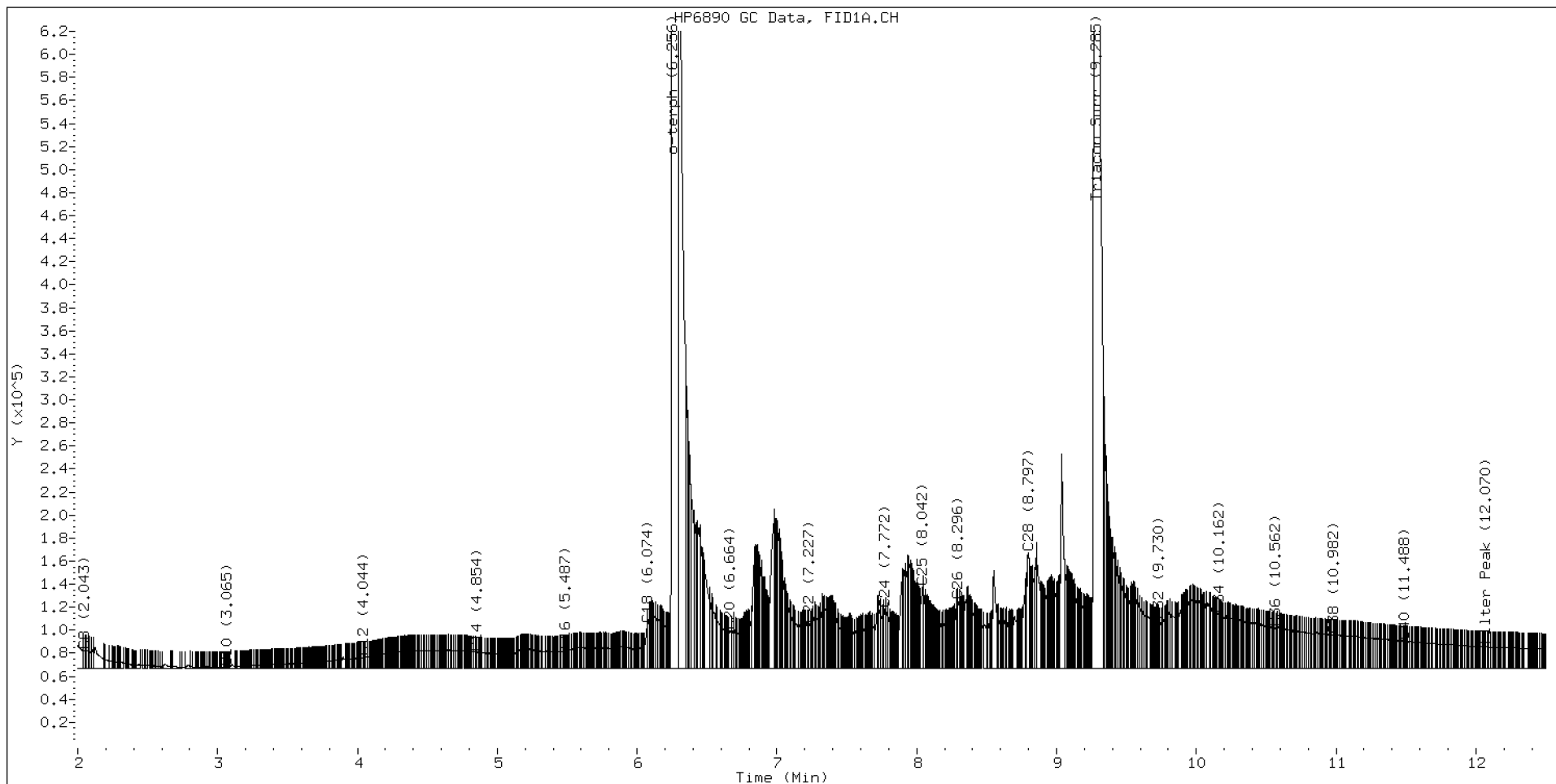
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.043	0.037	14879	11769	WATPHD	(C12-C24)	8224149	51.6
C10	3.065	-0.005	549	258	WATPHM	(C24-C38)	9404822	93.0
C12	4.044	0.002	9073	4045	AK102	(C10-C25)	9101580	46.6
C14	4.854	0.006	13533	1351	AK103	(C25-C36)	8051953	110.0
C16	5.487	-0.002	14645	4378	OR.DIES	(C10-C28)	11446490	58.4
C18	6.074	-0.005	37160	42442				
C20	6.664	0.003	32213	32903	JET-A	(C10-C18)	2151672	13.0
C22	7.227	0.004	37903	18554				
C24	7.772	0.003	50898	41217				
C25	8.042	0.003	69667	63278				
C26	8.296	-0.006	58246	47823				
C28	8.797	-0.007	100024	122990				
C32	9.730	-0.005	41176	25885				
C34	10.162	0.003	46424	18515				
Filter Peak	12.070	0.003	18142	4524	CREOSOT	(C12-C22)	6942117	77.0
C36	10.562	-0.006	34483	23930				
C38	10.982	0.003	28584	17065				
C40	11.488	0.003	23293	17439				
o-terph	6.256	-0.013	4379083	6964667				
Triacon Surr	9.285	-0.022	6434356	7518523	NAS DIES	(C10-C24)	8487652	43.5

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	6964667	34.0
Triacontane	7518523	50.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020





Batch: BIJ0402

Prepared using: EPA 3546 (Microwave)

TPH NW (Extractables) in Solid (Version: Creosote, only need the 3 point curve)

TPH NW (Extractables) in Solid

Matrix: Solid

Date Prepared: 10/14/20

Balance ID: B139298002

Set Up By: RcsM 10/13/2020

Analysis: TPH NW (Extractables)

Lab Number & Container	Initial (g)		Acid C/U (1:10) (1mL) Y/N	Silica Gel C/U (1mL) Y/N	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
	Target Wet: 10 (Wet)	Actual					
2010507-01 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
2010507-02 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
2010507-03 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
20J0036-01 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
20J0036-02 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
20J0121-01 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	
20J0122-01 A	(10.000)	10.05	(1mL) Y/N	(1mL) Y/N	10	1.0	

Batch QC

Lab Number	Initial (g)		Acid C/U (1:10) (1mL) Y/N	Silica Gel C/U (1mL) Y/N	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
	Target Wet: 10 (Wet)	Actual					
BIJ0402-BLK 1	(10.000)	10.00	(1mL) Y/N	(1mL) Y/N	10	1.0	
BIJ0402-BS1	(10.000)	10.00	(1mL) Y/N	(1mL) Y/N	10	1.0	

Dcp

10/14/20

BH

10/15/20

10/24/20

10:15

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time



Batch: BIJ0402

Prepared using: EPA 3546 (Microwave)

TPH NW (Extractables) in Solid (Version:Creosote, only need the 3 point curve)

TPH NW (Extractables) in Solid

Prep Steps	Reagents Used		Surrogates & Spike Standards Used				
	Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Microwave ① 2 3 DAP 10/14/20 CT Analyst/Date	Microwave		Surrogate	P 1006963 Exp: 08/07/2021	500µL	DAP	CT
	Methylene Chloride	I009343	1125µg/mL				
TurboVap 1 2 3 ④ 5 BH 10/15/20 Analyst/Date	Anhydrous Sodium Sulfate	I008491	Spike	11 1007329 Exp: 02/20/2021	1000µL	DAP	CT
	Neutral Glass Wool	I006096					
Vialing BH 10/15/20 Analyst/Date	Vialing		(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.				
	Methylene Chloride	I009343	If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).				
	Concentrated Sulfuric Acid						
	0% Silica						



Batch: BIJ0402

Prepared using: EPA 3546 (Microwave)

TPH NW (Extractables) in Solid (Version:Creosote, only need the 3 point curve)

TPH NW (Extractables) in Solid

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Weigh into 100mL beakers-dry with Sodium Sulfate.2. Transfer to microwave vessel.3. Add DCM to the vessel until the solvent is 1" 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 15 min. in R-05. Re-homogenize while cool.7. Collect into turbo tube with small funnel containing neutral glasswool and 1" sodium sulfate.8. Add (2) 10mL DCM rinses to vessel and transfer to turbo tube.9. TurboVap.10. Acid/Silica Clean-up <input checked="" type="checkbox"/> N11. TurboVap.12. Vial in DCM. <p>A. Need Total Solids Y <input checked="" type="checkbox"/> N</p> <p>B. Archive/Freeze <input checked="" type="checkbox"/> Y N</p>	

If all other analysis are complete.



Extraction Parameter: TPHD Extraction Batch B150902

Total Solids Batch: B150235 Work Order(s): 2050056

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 1, 2	DSP 10/08/20
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input checked="" type="checkbox"/> Standing Water Homogenized (Shared samples)= 1, 2	DSP 10/08/20
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples <input checked="" type="radio"/> Y <input type="radio"/> N 1, 2	DSP 10/08/20
<input checked="" type="checkbox"/> Multiple Jars <input type="radio"/> Y <input checked="" type="radio"/> N	DSP 10/08/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: TPHD Extraction Batch B15Q1Q2

Total Solids Batch: B15Q235 Work Order(s): 2Q1Q5Q7

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= 1, 2, 3	DxP 10/08/20
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input checked="" type="checkbox"/> Organics (Leaves/sticks/grass)= 1, 2, 3	(10/08/20) DxP
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y/(N)	DxP 10/08/20
<input checked="" type="checkbox"/> Multiple Jars Y/(N)	DxP 10/08/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: TPHD Extraction Batch B150402

Total Solids Batch: B150355 Work Order(s): 2050122

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 1, 2	D&P 10/12/20
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= 1, 2	D&P 10/12/20
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / (N)	D&P 10/12/20
<input checked="" type="checkbox"/> Multiple Jars Y / (N)	D&P 10/12/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Extraction Parameter: TPHD Extraction Batch B15Q4Q2

Total Solids Batch: B15Q355 Work Order(s): 285Q121

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input checked="" type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)= 1	DJP 10/12/20
<input checked="" type="checkbox"/> Standing Water Decanted (Not shared)= 1	DJP 10/12/20
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input type="checkbox"/> Previously Frozen =	
<input type="checkbox"/> Other (Details)=	
Aqueous:	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
<input checked="" type="checkbox"/> Share Samples Y / (N)	10/12/20 DJP
<input checked="" type="checkbox"/> Multiple Jars Y / (N)	DJP 10/12/20
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

Batch: BIJ0402

Batch Comment: **NONE**

Project: GascoSiltronic

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0121

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0121-01

Sample Comments: **NONE**

Project: Willamette Navigation Channel

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0122

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0122-01

Sample Comments: **NONE**

Project: S. 277th Bridge Replacement

Project Comments: MS/MSD < 6 samples equal to analytical cost, 6-15 samples equal to 1/2 the analytical cost. 1st metals element per method (excl. Hg) \$50, each additional element \$15. Diesel cost includes a 3 point cresote calibration if full calibration needed + \$50

Work Order:20I0507

Work Order Comments: **NONE**

Sample: 20I0507-01

Sample Comments: **NONE**

Sample: 20I0507-02

Sample Comments: **NONE**

Sample: 20I0507-03

Sample Comments: **NONE**

Project: Willamette Navigation Channel

Project Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Work Order:20J0036

Work Order Comments: <G> MS/MSD per 20 samples, please batch with other work orders, SM2540 Needed </G>

Sample: 20J0036-01

Sample Comments: **NONE**

Sample: 20J0036-02

Sample Comments: **NONE**



Form I
METHOD BLANK DATA SHEET
NWTPH-Dx

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0121</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Solid</u>	Laboratory ID:	<u>BIJ0402-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>10/14/20 10:15</u>
Solids:		Preparation:	<u>EPA 3546 (Microwave)</u>
Batch:	<u>BIJ0402</u>	Sequence:	<u>SIJ0272</u>
Instrument:	<u>FID4</u>	Column:	<u>RTX-1</u>
		File ID:	<u>420J1508.D</u>
		Analyzed:	<u>10/15/20 14:21</u>
		Initial/Final:	<u>10 g / 10 mL</u>
		Calibration:	<u>DA00022</u>

CAS NO.	COMPOUND	DILUTION	CONC: (mg/kg wet)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	50.0	U	20.3	50.0
RRO	Motor Oil Range Organics (C24-C38)	1	100	U	21.0	100
SURROGATES		ADDED: (mg/kg wet)	FOUND: (mg/kg wet)	% REC	QC LIMITS	Q
o-Terphenyl		56.250	34.8	61.9	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20201015,bl\42011508.D

Date: 15-OCT-2020 14:21

Client ID:

Sample Info: B100402-BLK1

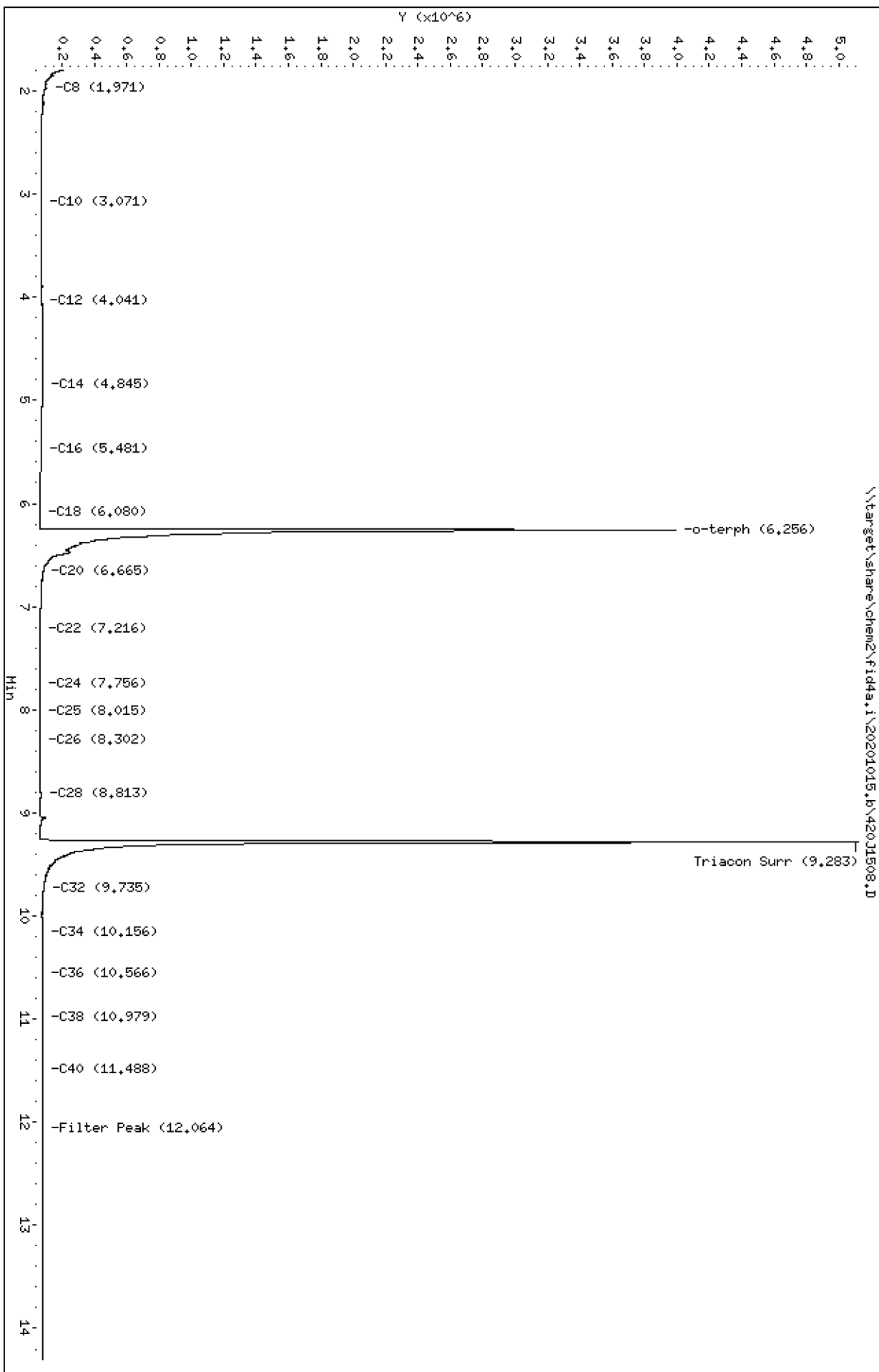
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20201015,bl\42011508.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1508.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0402-BLK1
Client ID:
Injection: 15-OCT-2020 14:21
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

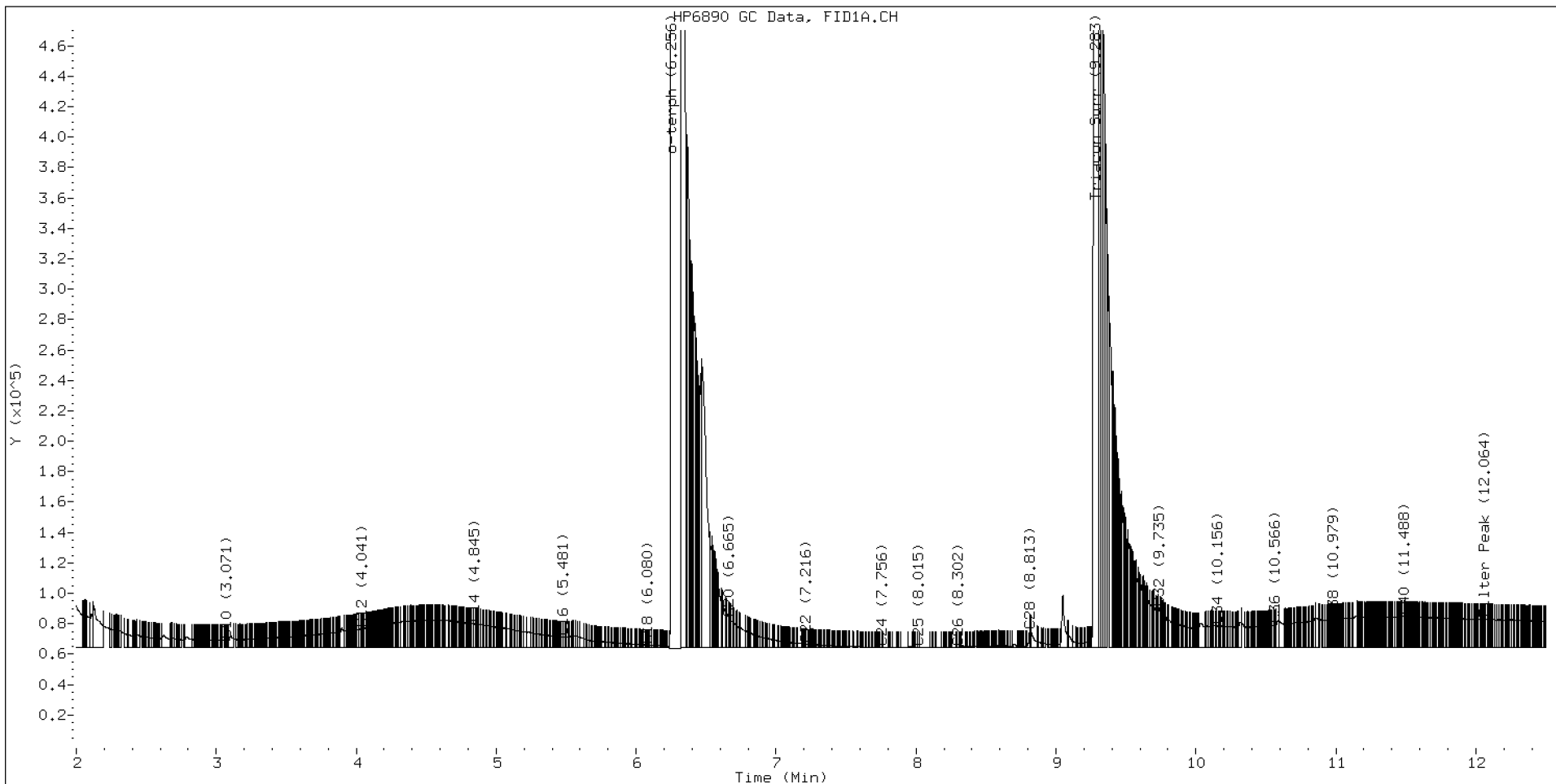
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.971	-0.036	41171	142904	WATPHD	(C12-C24)	4919946	30.9
C10	3.071	0.002	4958	1955	WATPHM	(C24-C38)	4580755	45.3
C12	4.041	-0.002	12477	3110	AK102	(C10-C25)	5405565	27.7
C14	4.845	-0.003	15739	7802	AK103	(C25-C36)	4203810	57.4
C16	5.481	-0.008	7044	6271	OR.DIES	(C10-C28)	5455112	27.8
C18	6.080	0.001	1777	994				
C20	6.665	0.004	19441	4799	JET-A	(C10-C18)	1742415	10.5
C22	7.216	-0.007	2143	1824				
C24	7.756	-0.012	228	103				
C25	8.015	-0.023	319	174				
C26	8.302	0.001	316	144				
C28	8.813	0.009	10739	6336				
C32	9.735	0.000	25810	14915				
C34	10.156	-0.004	14490	12082				
Filter Peak	12.064	-0.002	18528	8324	CREOSOT	(C12-C22)	4899390	54.4
C36	10.566	-0.002	14835	5171				
C38	10.979	-0.001	18507	8317				
C40	11.488	0.003	20405	13196				
o-terph	6.256	-0.012	3931142	7131278				
Triacon Surr	9.283	-0.023	5056245	5750978	NAS DIES	(C10-C24)	5403867	27.7

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	7131278	34.8 M
Triacontane	5750978	38.8 M

M Indicates the peak was manually integrated

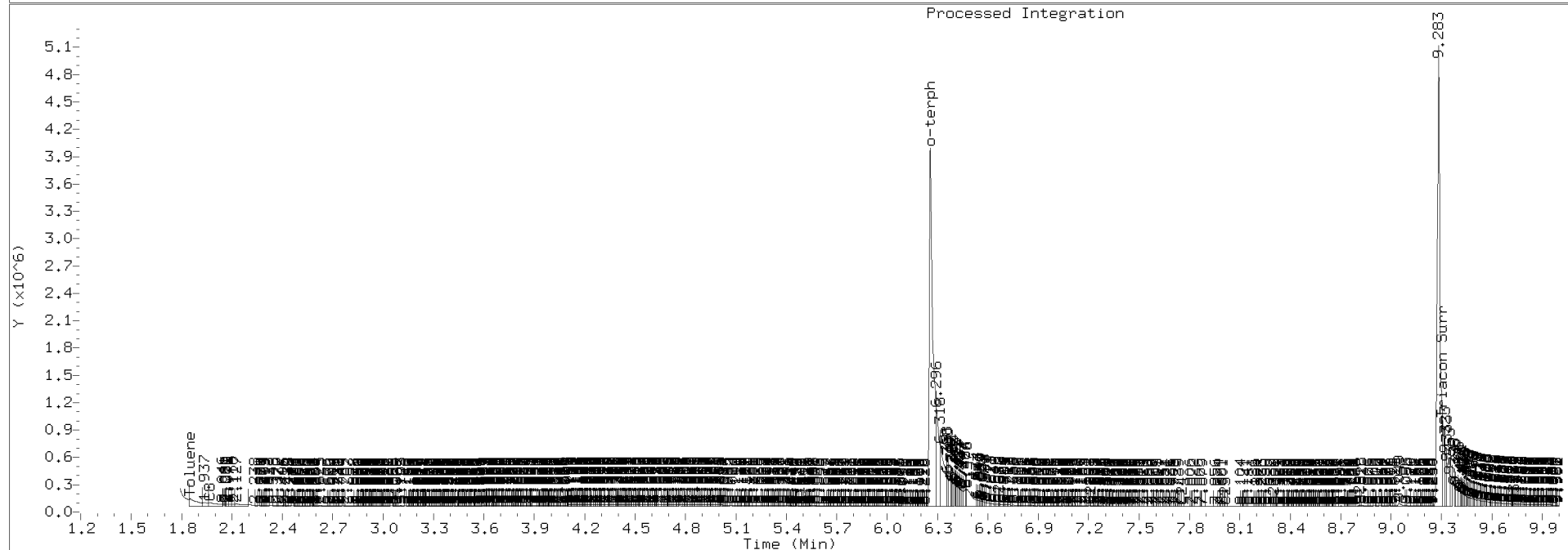
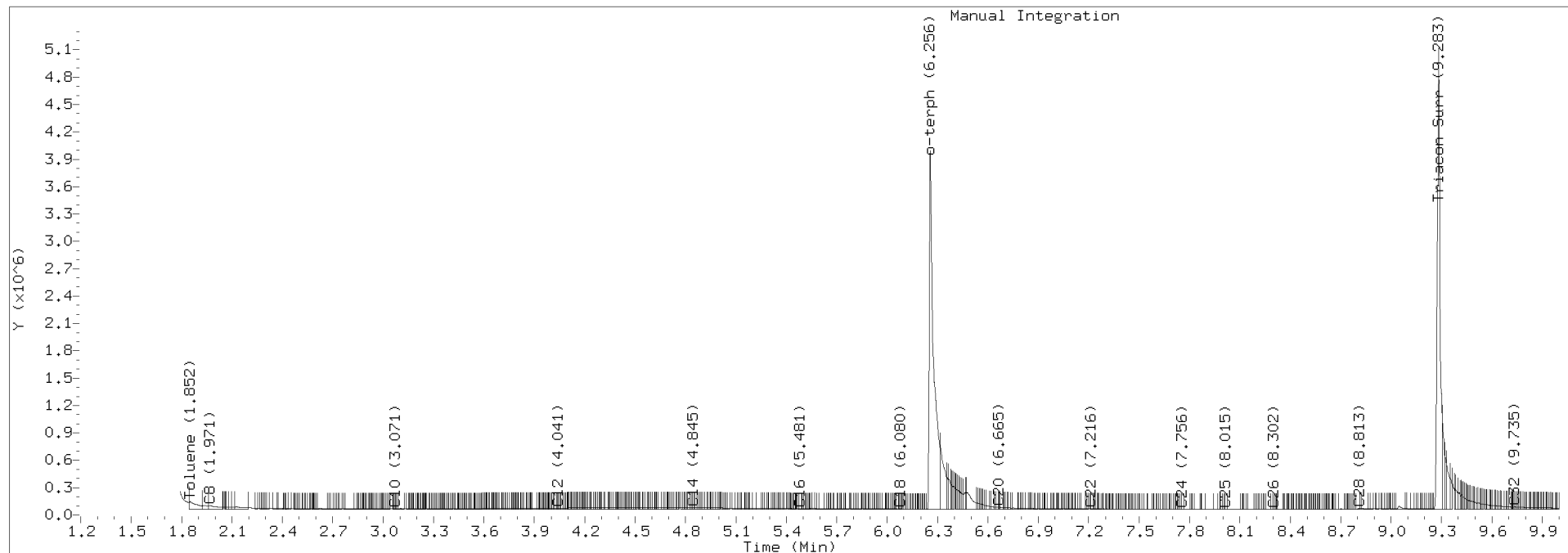
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1508.D Injection: 15-OCT-2020 14:21

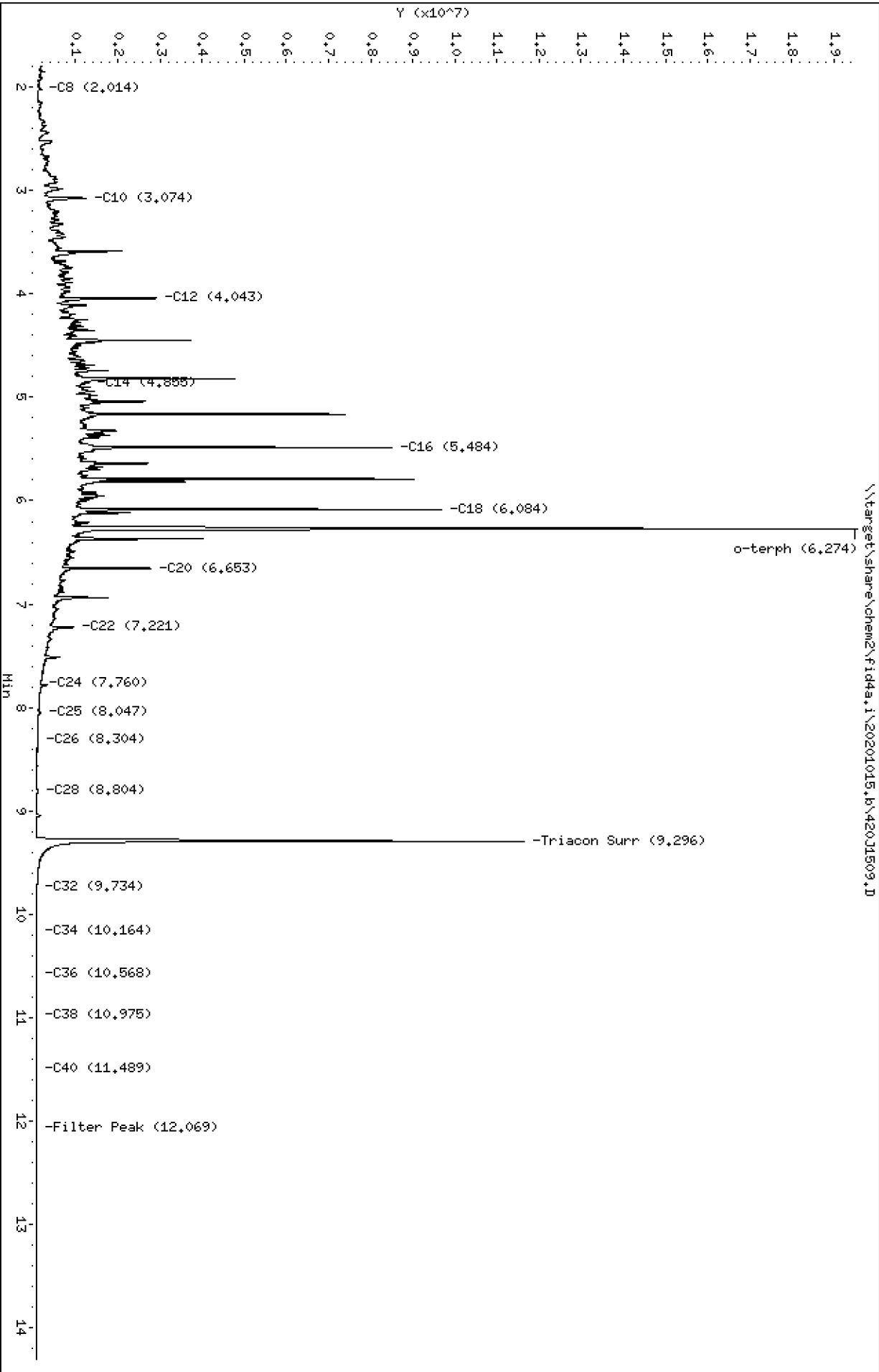
Lab ID:BIJ0402-BLK1



Data File: \\target\share\chem2\fid4a,1\20201015,b\420J1509.D
Date: 15-OCT-2020 14:42
Client ID:
Sample Info: B100402-BS1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1509.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0402-BS1
Client ID:
Injection: 15-OCT-2020 14:42
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

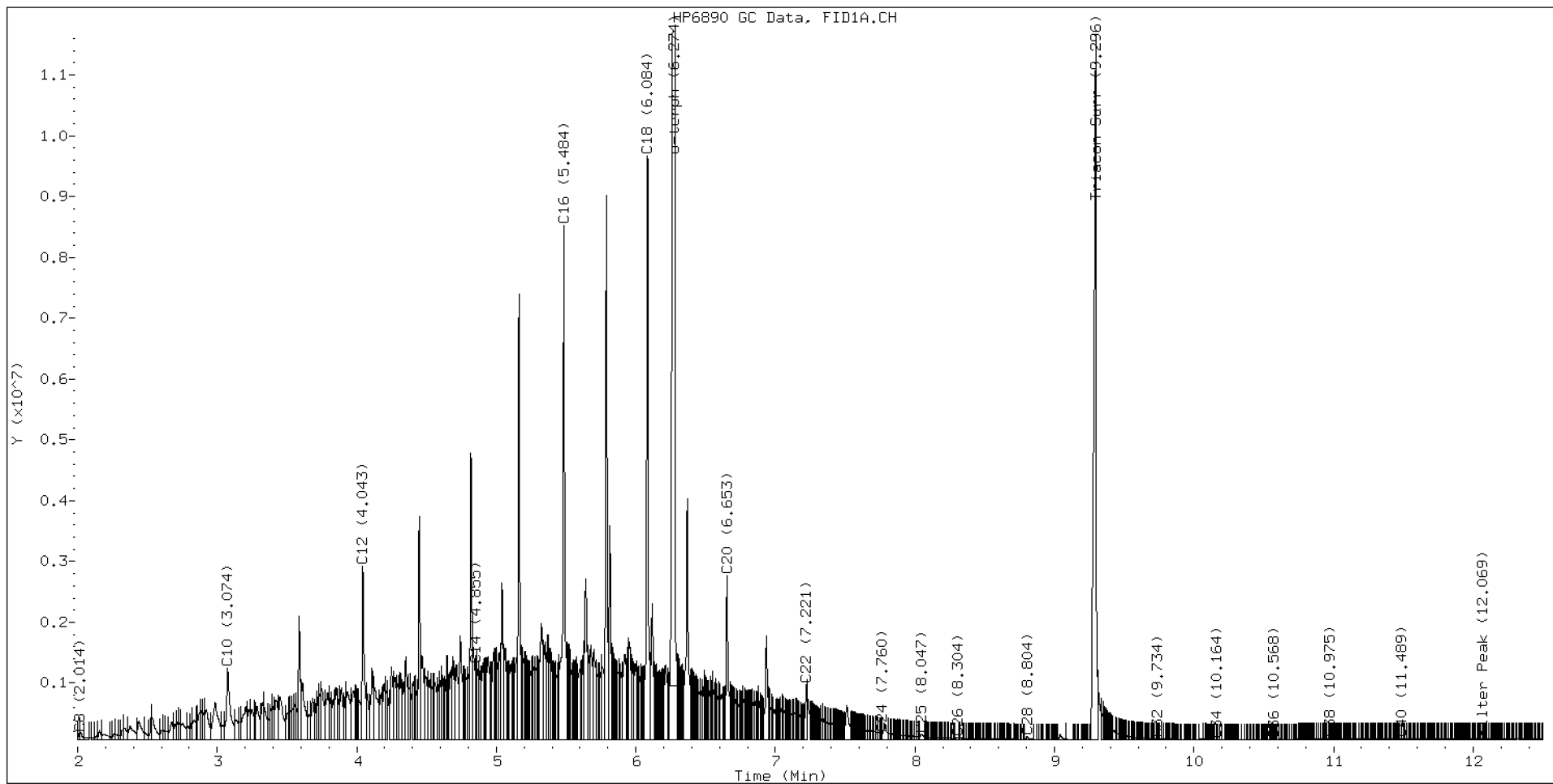
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.014	0.007	105603	59235	WATPHD	(C12-C24)	214103459	1343.7
C10	3.074	0.004	1183118	2135644	WATPHM	(C24-C38)	4538175	44.9
C12	4.043	0.001	2852338	3016432	AK102	(C10-C25)	251233251	1285.1
C14	4.855	0.007	1226470	533562	AK103	(C25-C36)	3614650	49.4
C16	5.484	-0.004	8452114	8456418	OR.DIES	(C10-C28)	252382869	1287.7
C18	6.084	0.006	9601177	8818532				
C20	6.653	-0.008	2701717	2714418	JET-A	(C10-C18)	194569449	1173.2
C22	7.221	-0.001	897106	949683				
C24	7.760	-0.009	99222	19764				
C25	8.047	0.009	91520	148186				
C26	8.304	0.003	36457	45599				
C28	8.804	-0.000	48022	77214				
C32	9.734	-0.001	15947	8610				
C34	10.164	0.004	6653	4266				
Filter Peak	12.069	0.003	11771	5860	CREOSOT	(C12-C22)	207032436	2297.1
C36	10.568	0.001	5621	1391				
C38	10.975	-0.004	9284	4165				
C40	11.489	0.004	11545	4605				
o-terph	6.274	0.006	18598302	20819631				
Triacon Surr	9.296	-0.010	11588992	13748859	NAS DIES	(C10-C24)	250496201	1283.6

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	20819631	101.7 M
Triacontane	13748859	92.7

M Indicates the peak was manually integrated

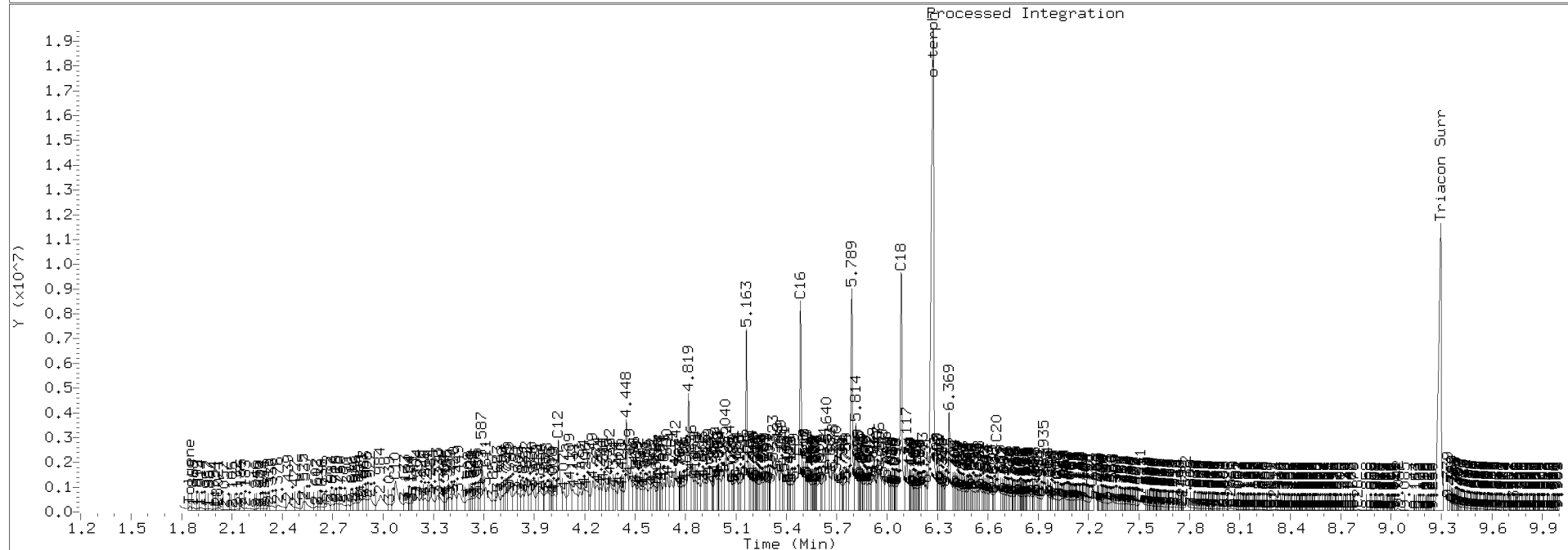
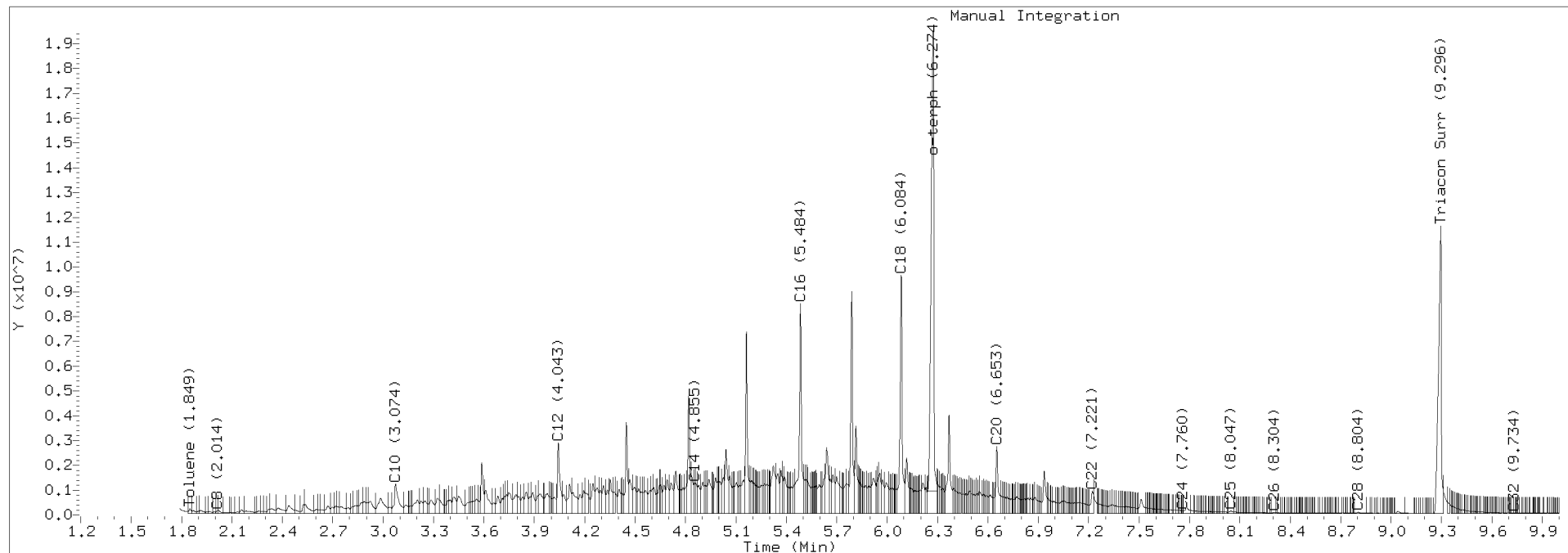
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1509.D Injection: 15-OCT-2020 14:42

Lab ID:BIJ0402-BS1





INITIAL CALIBRATION DATA NWTPH-Dx

Laboratory:	Analytical Resources, Inc.	SDG:	20J0121
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	CJ00089	Instrument:	FID4
Calibration Date:	10/29/2019	Column (1):	RTX-1

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Diesel Range Organics (C12-C24)	159336.7	7.4			RSD (20)	
Motor Oil Range Organics (C24-C38)	132632.1	2.9			RSD (20)	
o-Terphenyl	204701.9	1.9			RSD (20)	



ANALYSIS SEQUENCE

Printed: 10/30/2019 7:24:06AM

SHJ0406

Instrument: FID4 Element Column ID: G004925
Calibration ID: CJ00089

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-IBL1	Retention Time Standard	QC		1	H006806		
SHJ0406-IBL2	Instrument Blank	QC		2	H007457		
SHJ0406-CAL1	DIESEL 50	QC		3	H010495		
SHJ0406-CAL2	DIESEL 100	QC		4	H010496		
SHJ0406-CAL3	DIESEL 250	QC		5	H010497		
SHJ0406-CAL4	DIESEL 500	QC		6	H010498		
SHJ0406-CAL5	DIESEL 1000	QC		7	H010499		
SHJ0406-CAL6	DIESEL 2500	QC		8	H009367		
SHJ0406-SCV1	DIESEL SCV	QC		9	H008294		
SHJ0406-CAL7	MOIL 100	QC		10	H008395		
SHJ0406-CAL8	MOIL 250	QC		11	H008396		
SHJ0406-CAL9	MOIL 500	QC		12	H008397		
SHJ0406-CALA	MOIL 1000	QC		13	H007659		
SHJ0406-CALB	MOIL 2500	QC		14	H008398		
SHJ0406-CALC	MOIL 5000	QC		15	H007458		
SHJ0406-SCV2	MOIL SCV	QC		16	H008399		
SHJ0406-CALD	AK103 100	QC		17	H010478		
SHJ0406-CALE	AK103 250	QC		18	H010479		
SHJ0406-CALF	AK103 500	QC		19	H010480		
SHJ0406-CALG	AK103 1000	QC		20	H010481		
SHJ0406-CALH	AK103 2500	QC		21	H010482		
SHJ0406-CALI	AK103 5000	QC		22	H008608		



Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

Printed: 10/30/2019 7:24:06AM

SHJ0406

Instrument: FID4 Element Column ID: G004925
Calibration ID: CJ00089

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-SCV3	AK103 SCV	QC		23	H008400		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	25-OCT-2019	11:37	419J2501.D	1	RINSE	
2	25-OCT-2019	11:55	419J2502.D	1	RINSE	
3	25-OCT-2019	12:30	419J2503.D	1	RINSE	
4	25-OCT-2019	12:51	419J2504.D	1	RINSE	
5	25-OCT-2019	13:11	419J2505.D	1	SHJ0406-IBL1	
6	25-OCT-2019	13:31	419J2506.D	1	SHJ0406-IBL2	
7	25-OCT-2019	13:52	419J2507.D	1	SHJ0406-CAL1	
8	25-OCT-2019	14:12	419J2508.D	1	SHJ0406-CAL2	
9	25-OCT-2019	14:32	419J2509.D	1	SHJ0406-CAL3	
10	25-OCT-2019	14:53	419J2510.D	1	SHJ0406-CAL4	
11	25-OCT-2019	15:13	419J2511.D	1	SHJ0406-CAL5	
12	25-OCT-2019	15:32	419J2512.D	1	SHJ0406-CAL6	
13	25-OCT-2019	15:52	419J2513.D	1	SHJ0406-SCV1	
14	25-OCT-2019	16:12	419J2514.D	1	SHJ0406-CAL7	
15	25-OCT-2019	16:33	419J2515.D	1	SHJ0406-CAL8	
16	25-OCT-2019	16:53	419J2516.D	1	SHJ0406-CAL9	
17	25-OCT-2019	17:13	419J2517.D	1	SHJ0406-CALA	
18	25-OCT-2019	17:34	419J2518.D	1	SHJ0406-CALB	
19	25-OCT-2019	17:54	419J2519.D	1	SHJ0406-CALC	
20	25-OCT-2019	18:14	419J2520.D	1	SHJ0406-SCV2	
21	25-OCT-2019	18:35	419J2521.D	1	SHJ0406-CALD	
22	25-OCT-2019	18:55	419J2522.D	1	SHJ0406-CALE	
23	25-OCT-2019	19:15	419J2523.D	1	SHJ0406-CALF	
24	25-OCT-2019	19:34	419J2524.D	1	SHJ0406-CALG	
25	25-OCT-2019	19:54	419J2525.D	1	SHJ0406-CALH	
26	25-OCT-2019	20:15	419J2526.D	1	SHJ0406-CALI	
27	25-OCT-2019	20:35	419J2527.D	1	SHJ0406-SCV3	
28	25-OCT-2019	20:55	419J2528.D	1	SHJ0406-ICV1	
29	25-OCT-2019	21:16	419J2529.D	1	SHJ0406-ICV2	
30	25-OCT-2019	21:36	419J2530.D	1	BHJ0711-BLK1	
31	25-OCT-2019	21:56	419J2531.D	1	BHJ0711-BS1	
32	25-OCT-2019	22:16	419J2532.D	1	19J0373-01	
33	25-OCT-2019	22:35	419J2533.D	1	19J0373-02	
34	25-OCT-2019	22:55	419J2534.D	1	19J0373-03	
35	25-OCT-2019	23:16	419J2535.D	1	19J0373-04	
36	25-OCT-2019	23:36	419J2536.D	1	19J0373-05	
37	25-OCT-2019	23:57	419J2537.D	1	19J0373-06	
38	26-OCT-2019	00:17	419J2538.D	1	19J0373-07	
39	26-OCT-2019	00:37	419J2539.D	1	19J0373-08	
40	26-OCT-2019	00:58	419J2540.D	1	SHJ0406-CCV1	
41	26-OCT-2019	01:18	419J2541.D	1	SHJ0406-CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 25-OCT-2019

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1137	419J2501.D	RINSE		1	NO MANUAL INTEGRATION
1155	419J2502.D	RINSE		1	NO MANUAL INTEGRATION
1230	419J2503.D	RINSE		1	NO MANUAL INTEGRATION
1251	419J2504.D	RINSE		1	NO MANUAL INTEGRATION
1311	419J2505.D	SHJ0406-IBL1		1	NO MANUAL INTEGRATION
1331	419J2506.D	SHJ0406-IBL2		1	NO MANUAL INTEGRATION
1352	419J2507.D	SHJ0406-CAL1		1	NO MANUAL INTEGRATION
1412	419J2508.D	SHJ0406-CAL2		1	o-terph,
1432	419J2509.D	SHJ0406-CAL3		1	NO MANUAL INTEGRATION
1453	419J2510.D	SHJ0406-CAL4		1	o-terph,
1513	419J2511.D	SHJ0406-CAL5		1	o-terph,
1532	419J2512.D	SHJ0406-CAL6		1	o-terph,
1552	419J2513.D	SHJ0406-SCV1		1	NO MANUAL INTEGRATION
1612	419J2514.D	SHJ0406-CAL7		1	Triacon Surr,
1633	419J2515.D	SHJ0406-CAL8		1	Triacon Surr,
1653	419J2516.D	SHJ0406-CAL9		1	Triacon Surr,
1713	419J2517.D	SHJ0406-CALA		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1734	419J2518.D	SHJ0406-CALB		1	Triacon Surr,
1754	419J2519.D	SHJ0406-CALC		1	Triacon Surr,
1814	419J2520.D	SHJ0406-SCV2		1	Triacon Surr,
1835	419J2521.D	SHJ0406-CALD		1	Triacon Surr,
1855	419J2522.D	SHJ0406-CALE		1	Triacon Surr,
1915	419J2523.D	SHJ0406-CALF		1	Triacon Surr,
1934	419J2524.D	SHJ0406-CALG		1	Triacon Surr,
1954	419J2525.D	SHJ0406-CALH		1	Triacon Surr,
2015	419J2526.D	SHJ0406-CALI		1	Triacon Surr,
2035	419J2527.D	SHJ0406-SCV3		1	Triacon Surr,
2055	419J2528.D	SHJ0406-ICV1		1	o-terph,
2116	419J2529.D	SHJ0406-ICV2		1	Triacon Surr,
2136	419J2530.D	BHJ0711-BLK1		1	NO MANUAL INTEGRATION
2156	419J2531.D	BHJ0711-BS1		1	o-terph,
2216	419J2532.D	19J0373-01		1	Triacon Surr,
2235	419J2533.D	19J0373-02		1	NO MANUAL INTEGRATION
2255	419J2534.D	19J0373-03		1	Triacon Surr,
2316	419J2535.D	19J0373-04		1	Triacon Surr,

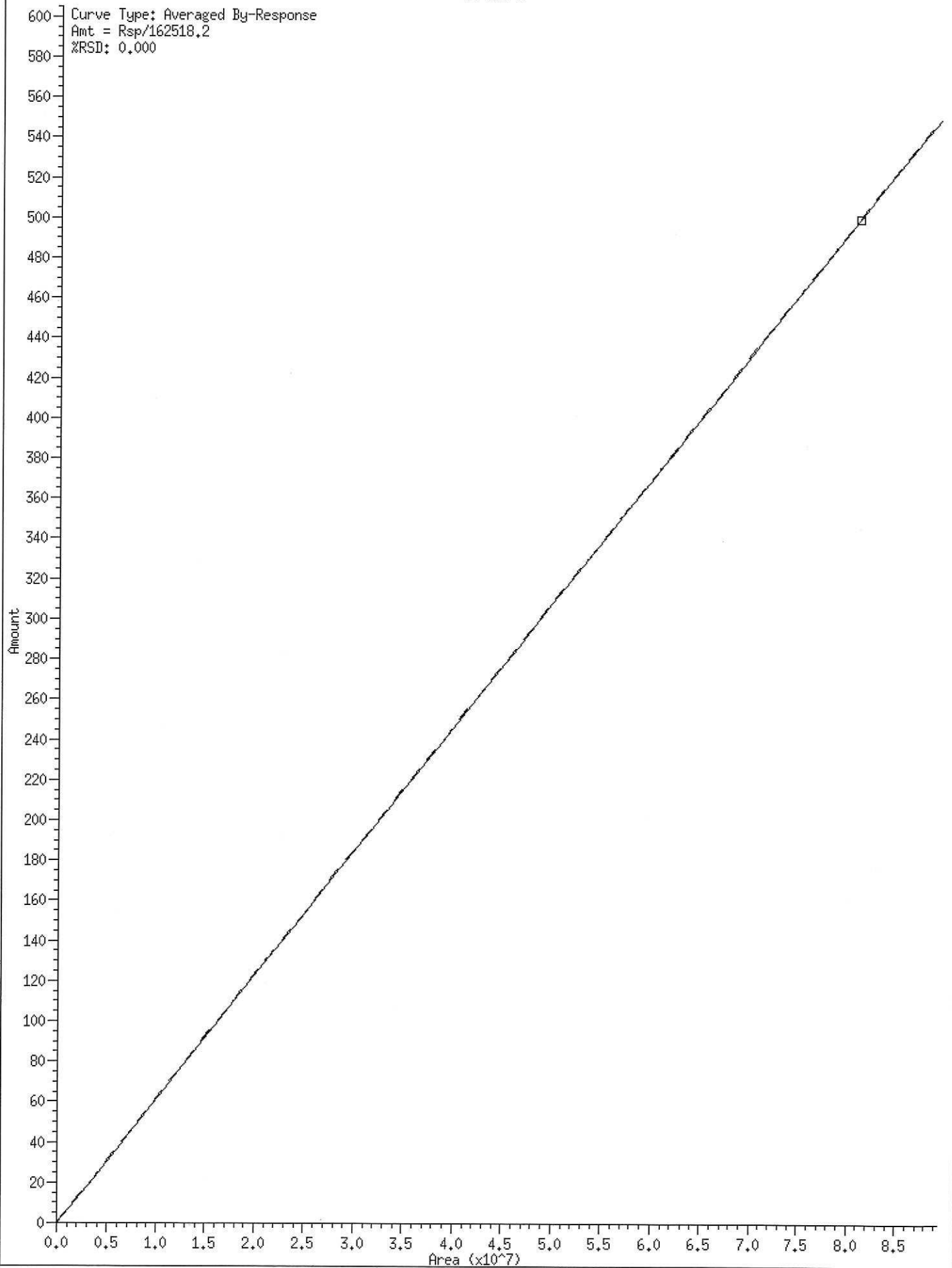
MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
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2357	419J2537.D	19J0373-06	1	Triacon Surr,	
0017	419J2538.D	19J0373-07	1	Triacon Surr,	
0037	419J2539.D	19J0373-08	1	Triacon Surr,	
0058	419J2540.D	SHJ0406-CCV1	1	o-terph,	
0118	419J2541.D	SHJ0406-CCV2	1	Triacon Surr,	

Security Status Report

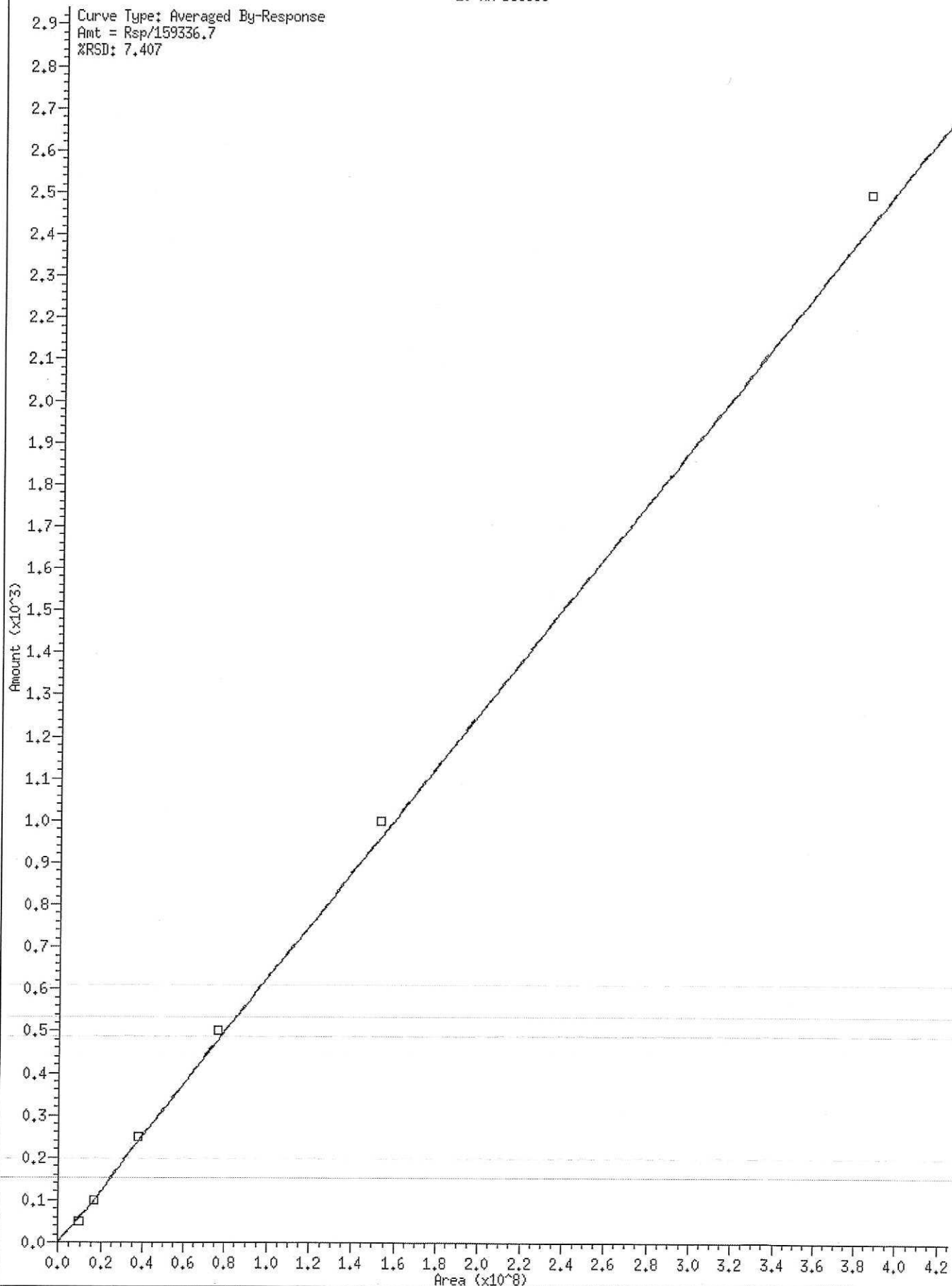
Date: 30-Oct-2019 07:25

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419J2511.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2512.D	Data Locked	j rains, 30-Oct-2019 07:20
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419J2523.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2524.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2525.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2526.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2527.D	Data Locked	j rains, 30-Oct-2019 07:20

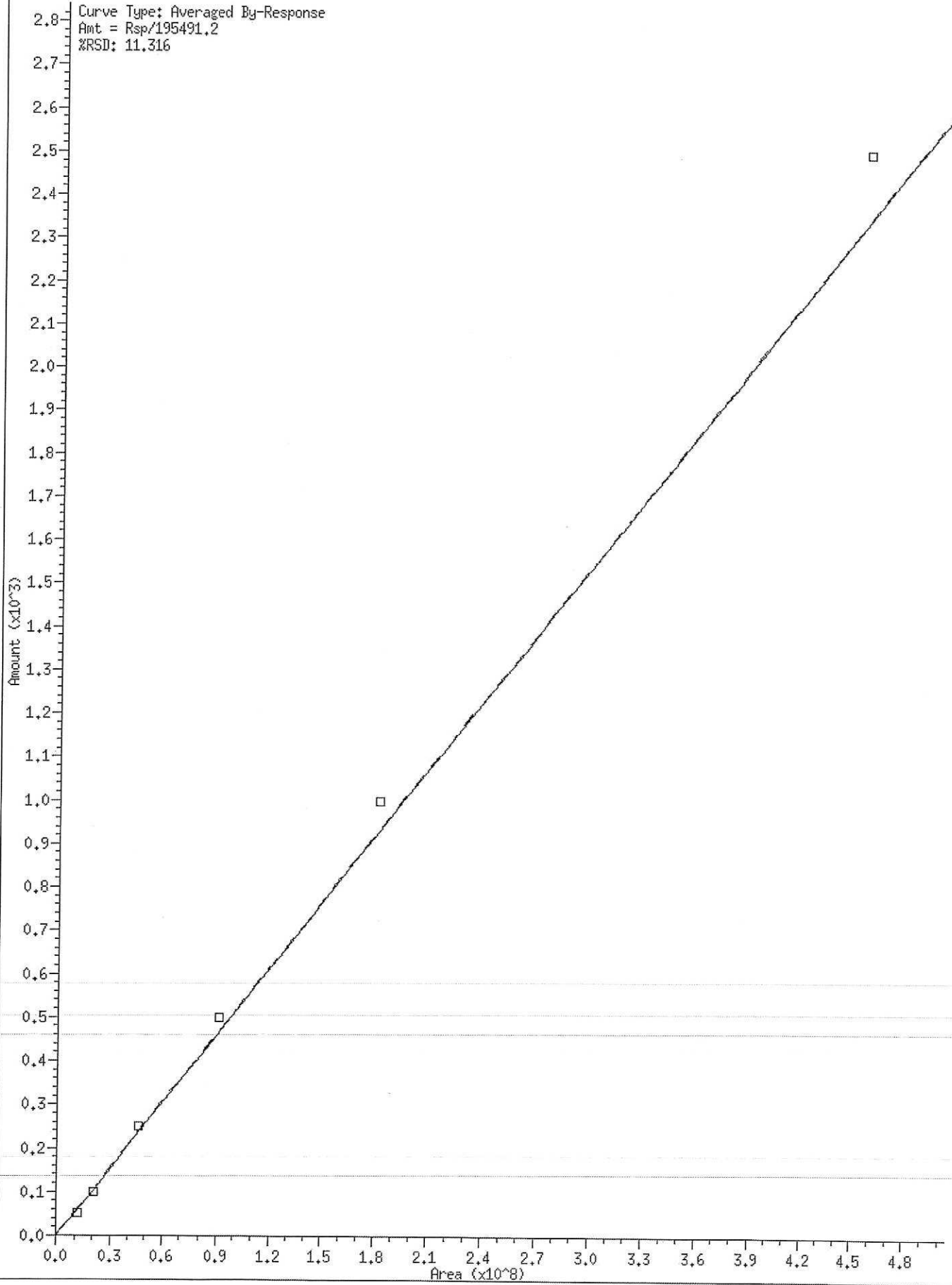


29 MW Diesel

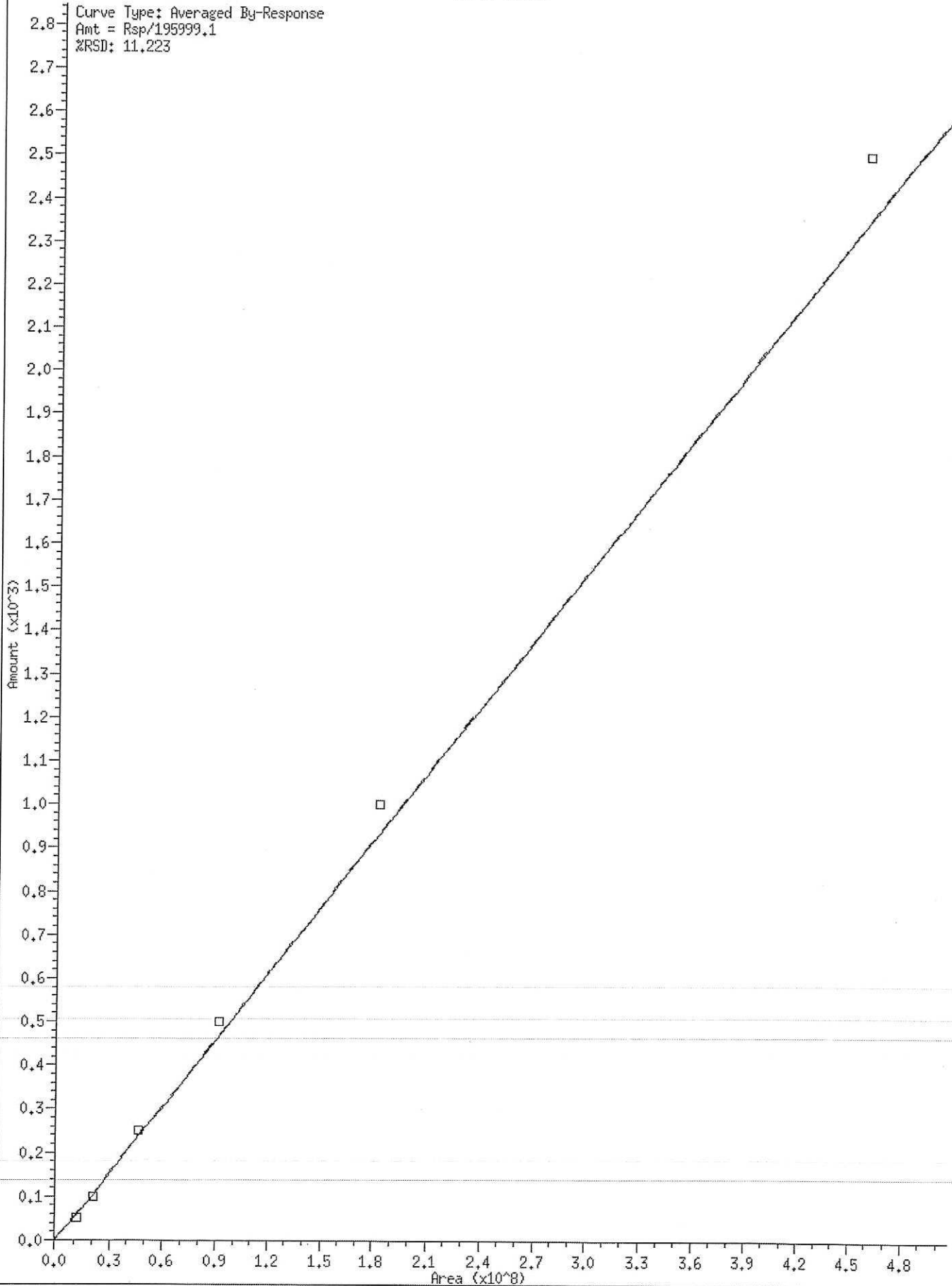
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%RSD: 7.407



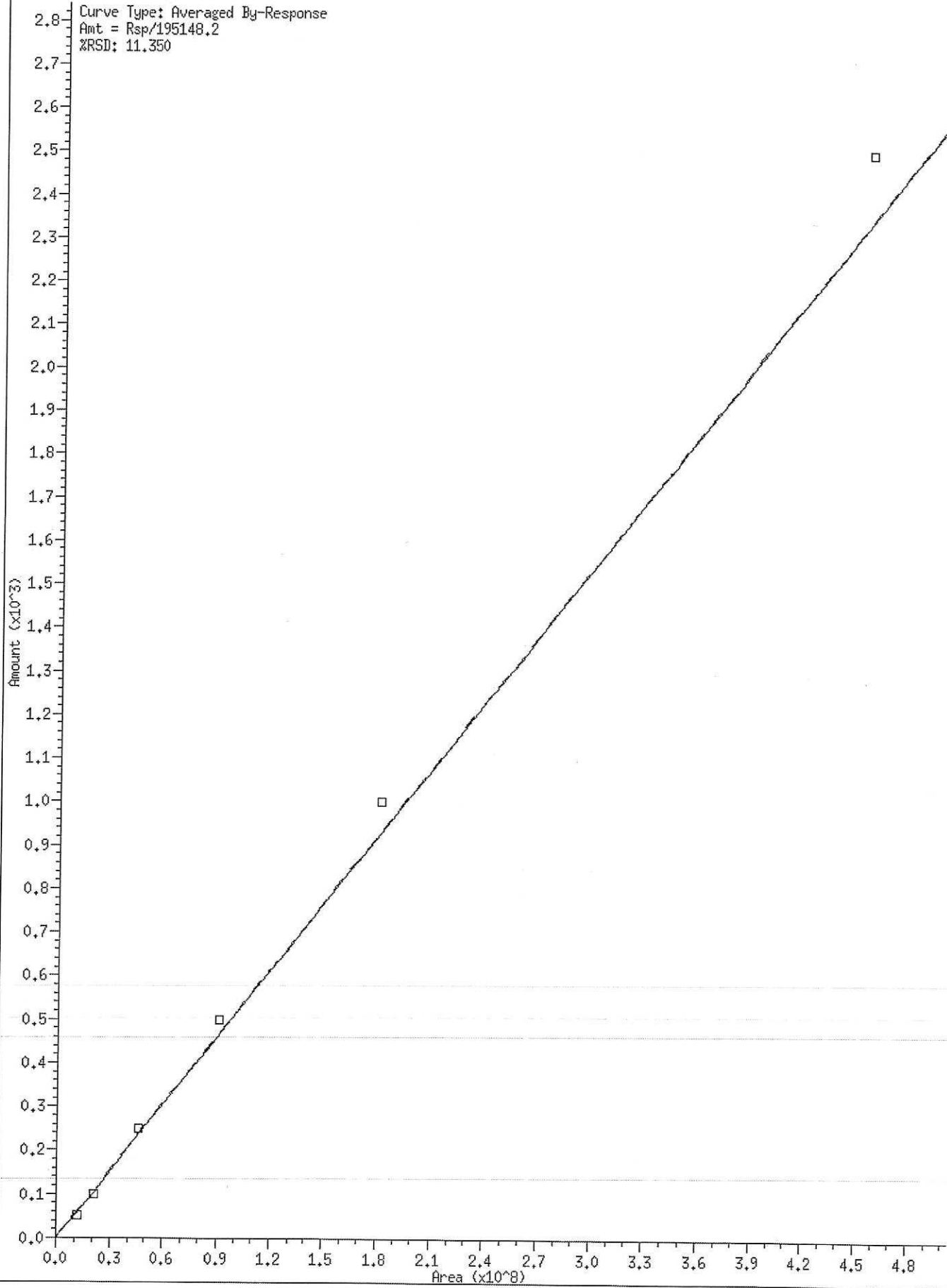
Curve Type: Averaged By-Response
Amt = Rsp/195491.2
%RSD: 11.316



Curve Type: Averaged By-Response
Amt = Rsp/195999.1
%RSD: 11.223

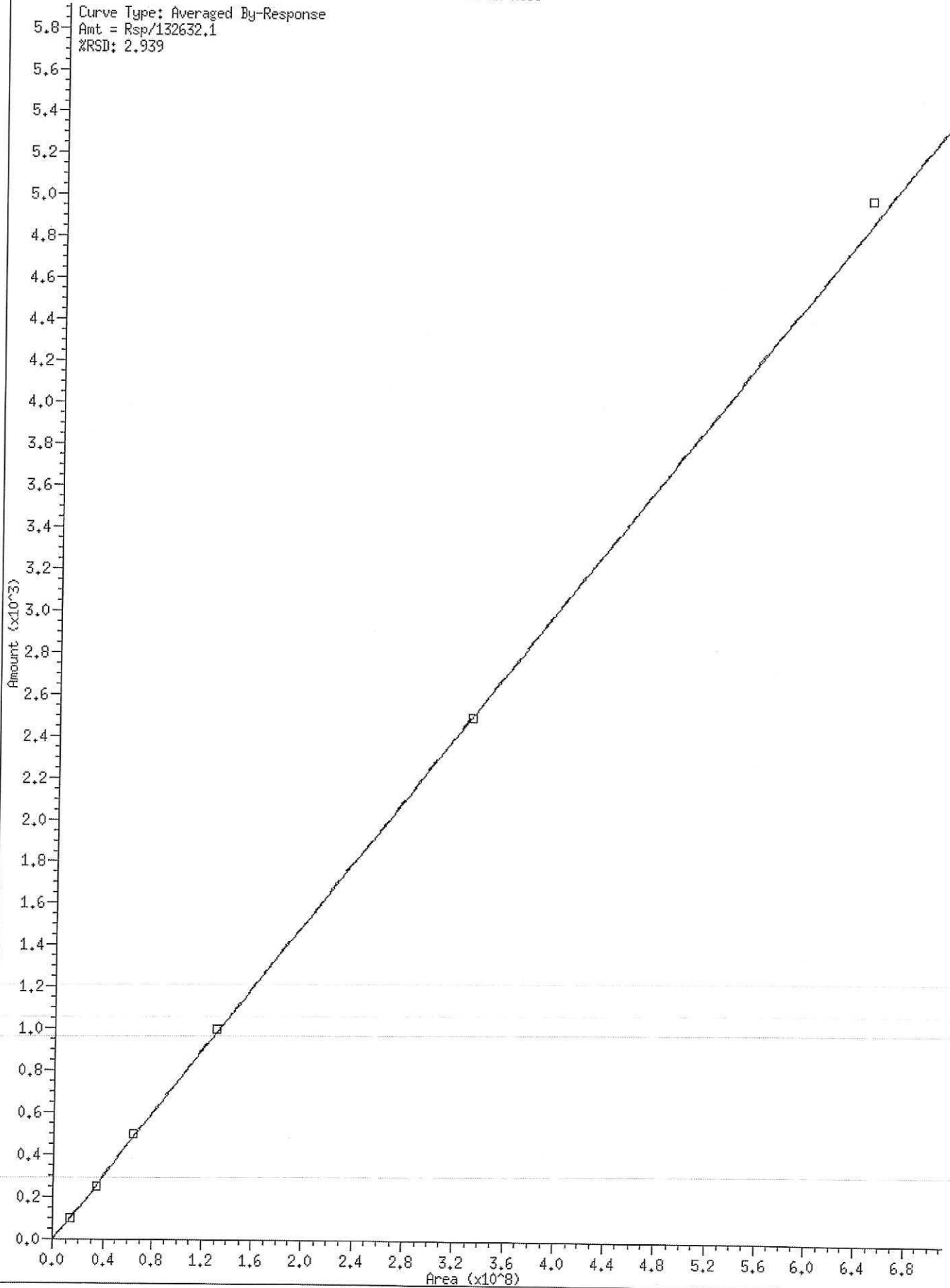


Curve Type: Averaged By-Response
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%RSD: 11.350

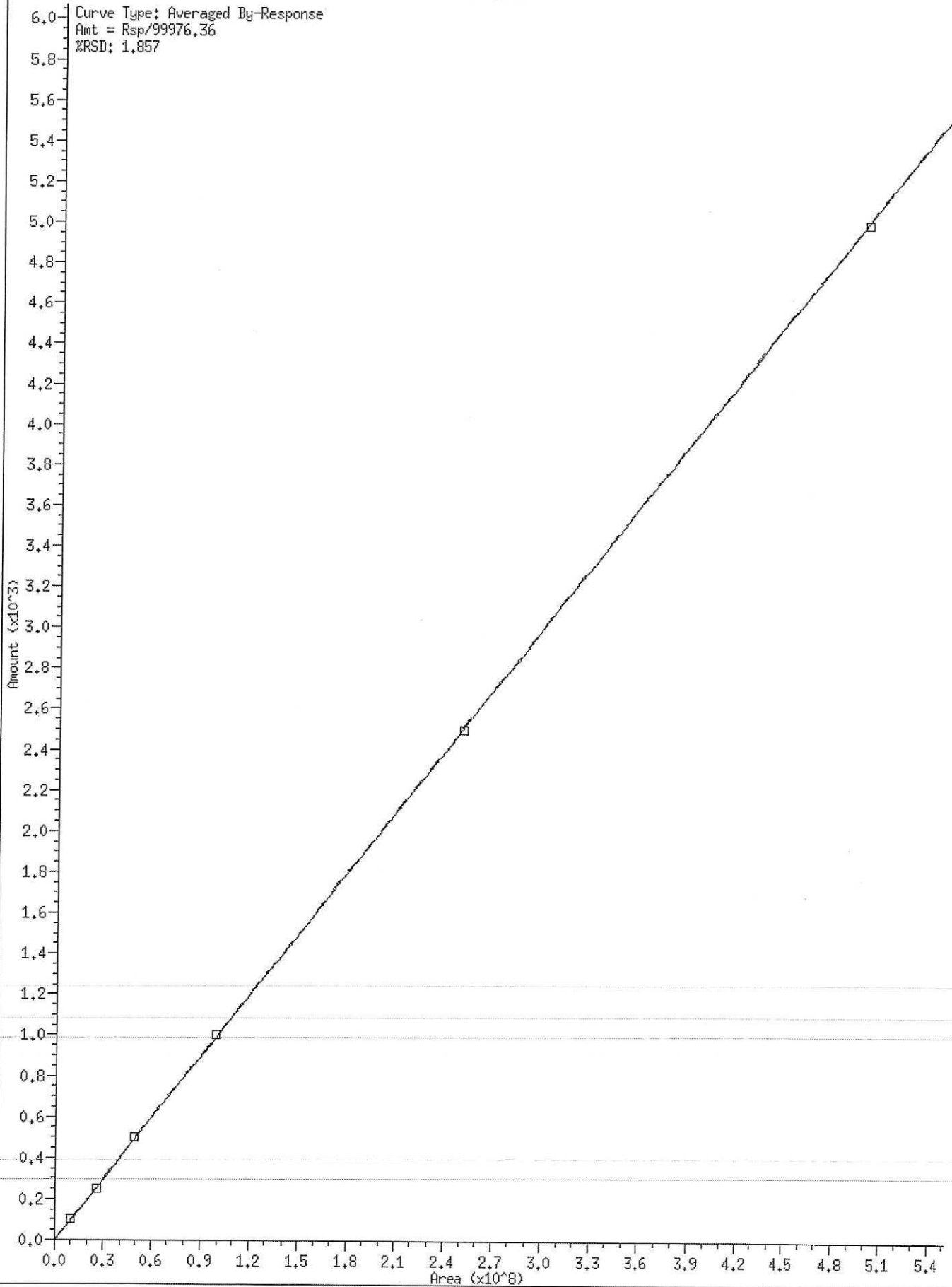


30 NW Moil

Curve Type: Averaged By-Response
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%RSD: 2.939

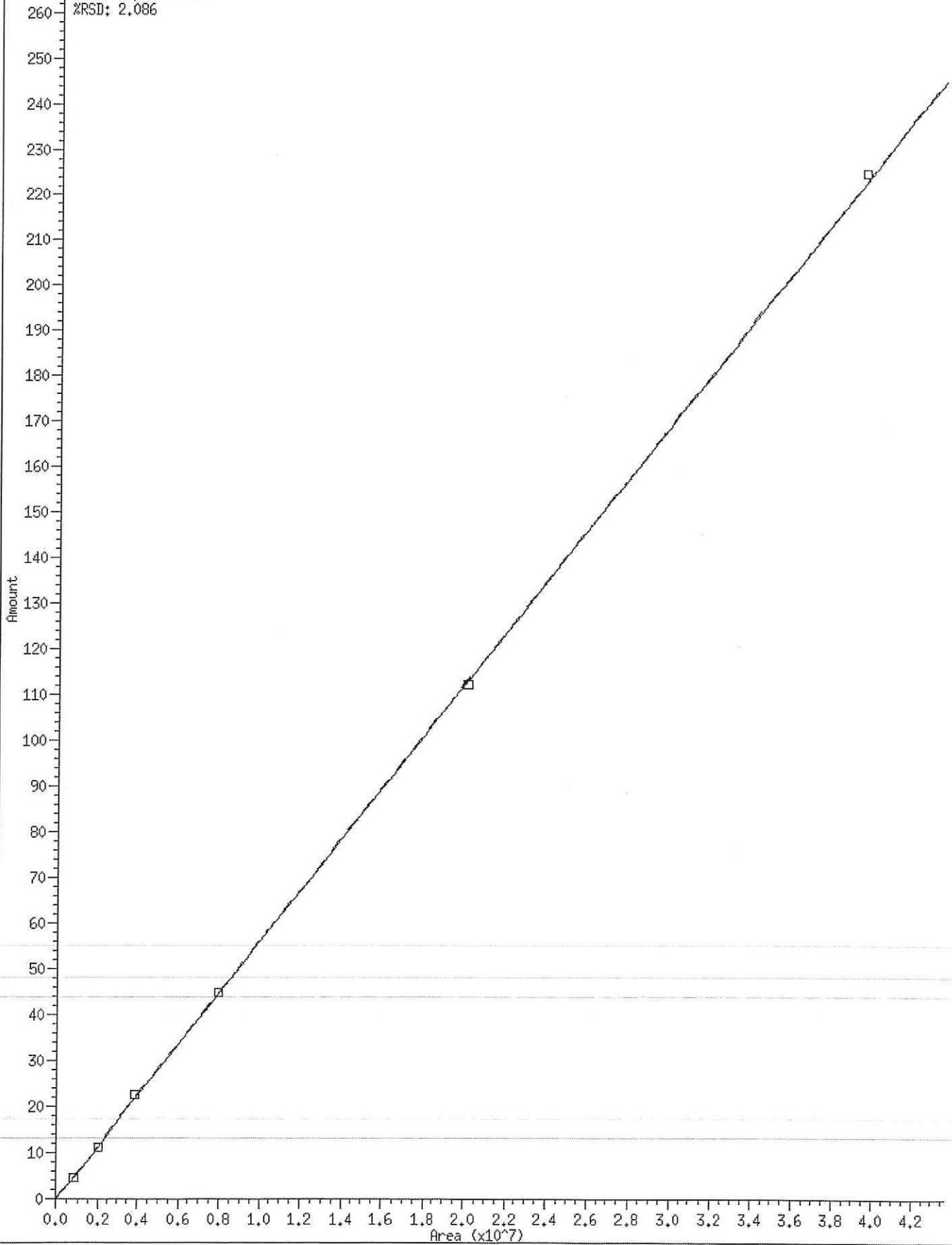


Curve Type: Averaged By-Response
Amt = Rsp/99976,36
%RSD: 1,857



15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/177979.9
%RSD: 2.086

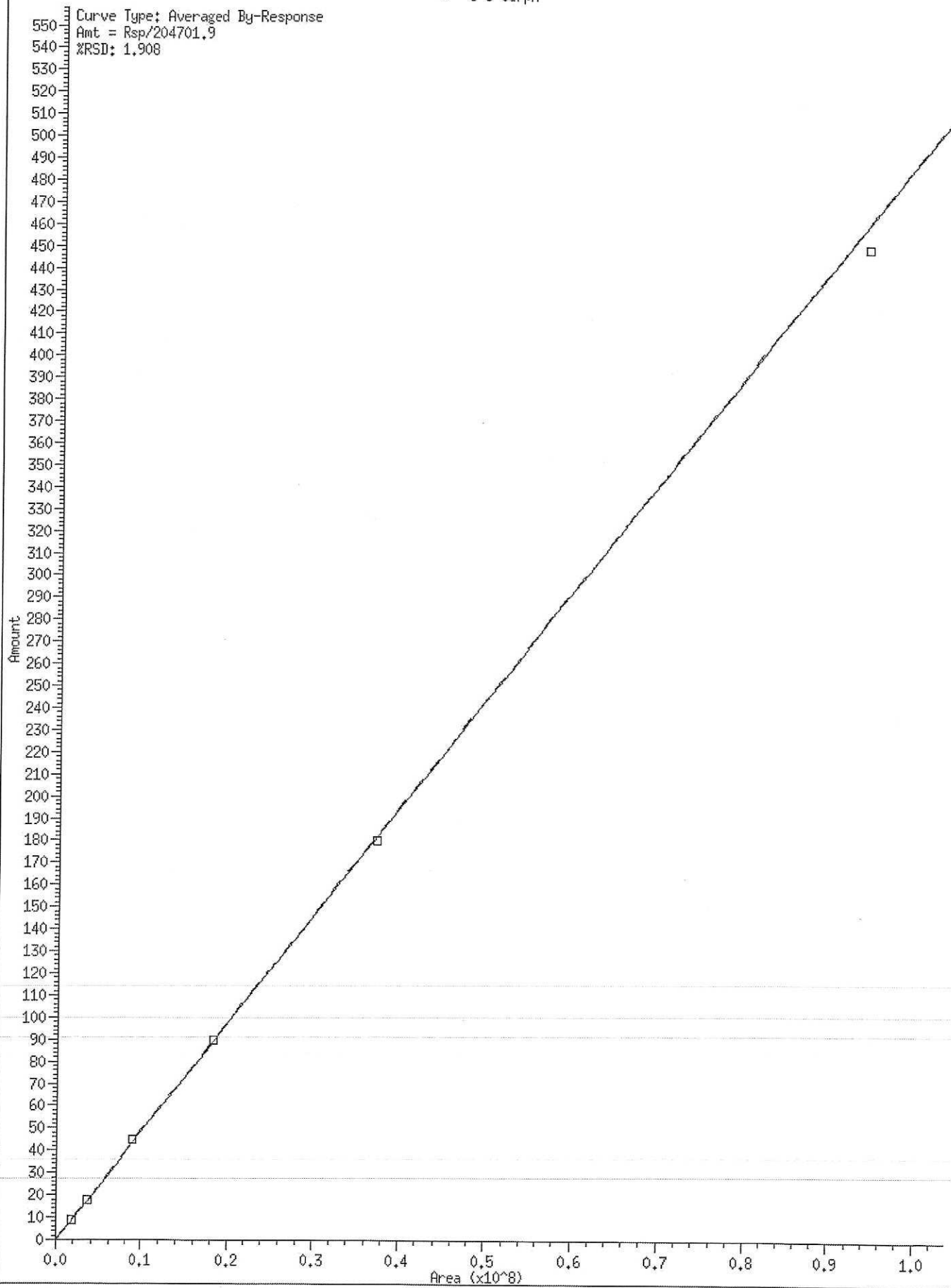


* 8 o-terph

Curve Type: Averaged By-Response

Amt = Rsp/204701.9

%RSD: 1.908



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2505.D

Date: 25-OCT-2019 13:11

Client ID:

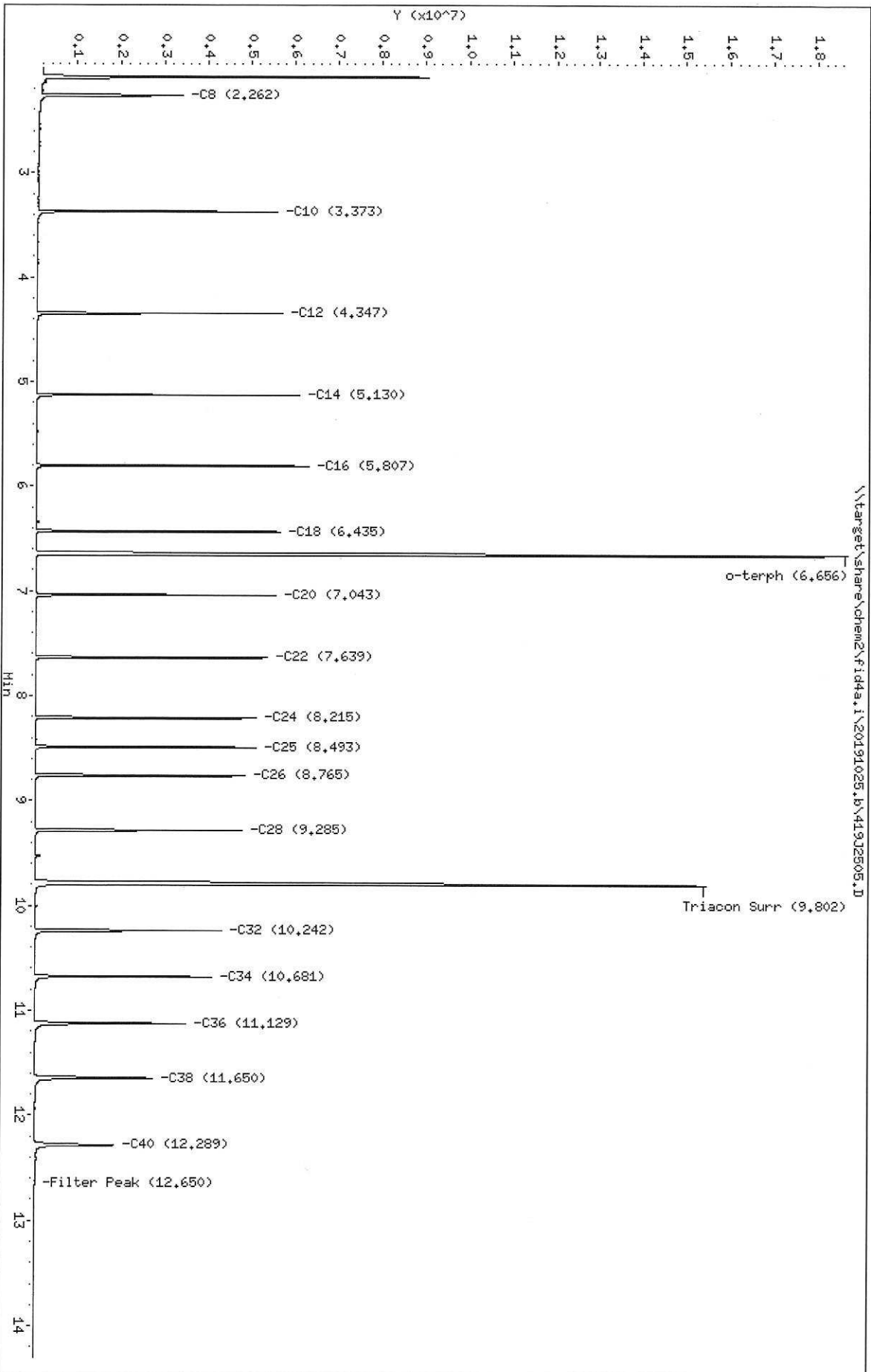
Sample Info: SH00406-IBL1

Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2505.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-IBL1
Client ID:
Injection: 25-OCT-2019 13:11
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.262	0.000	3356579	3932199	WATPHD	(C12-C24)	22628592	142.0
C10	3.373	0.000	5539104	3757340	WATPHM	(C24-C38)	26475519	199.6
C12	4.347	0.000	5663708	3683615	AK102	(C10-C25)	30812271	157.6
C14	5.130	0.000	6079967	3652238	AK103	(C25-C36)	22405219	224.1
C16	5.807	0.000	6277766	3707382	OR.DIES	(C10-C28)	41957167	214.1
C18	6.435	0.000	5635635	3612752				
C20	7.043	0.000	5539938	3702605				
C22	7.639	0.000	5339005	3727404				
C24	8.215	0.000	5097157	3674684				
C25	8.493	0.000	5111690	3698652				
C26	8.765	0.000	4851792	3662117				
C28	9.285	0.000	4782484	3718632				
C32	10.242	0.000	4326930	3643795				
C34	10.681	0.000	4092240	3584940				
Filter Peak	12.650	0.000	16931	63954	CREOSOT	(C12-C22)	18936204	4854.3
C36	11.129	0.000	3493562	3625484				
C38	11.650	0.000	2741525	3745220				
C40	12.289	0.000	1889635	2977724				
o-terph	6.656	0.000	18648694	20337624				
Triacon Surr	9.802	0.000	15433087	21196653	NAS DIES	(C10-C24)	30787335	157.8

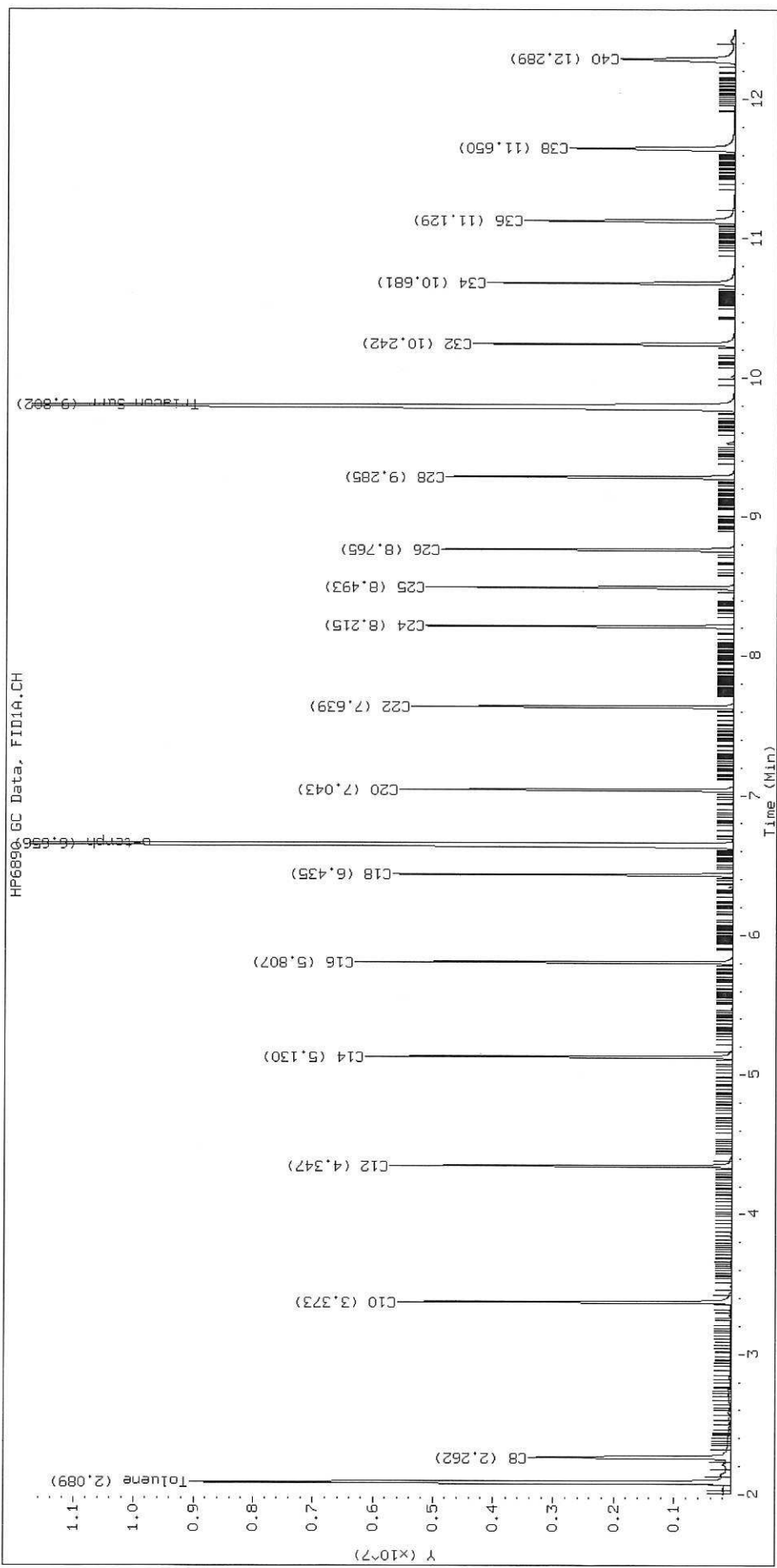
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	20337624	99.4
Triacontane	21196653	119.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

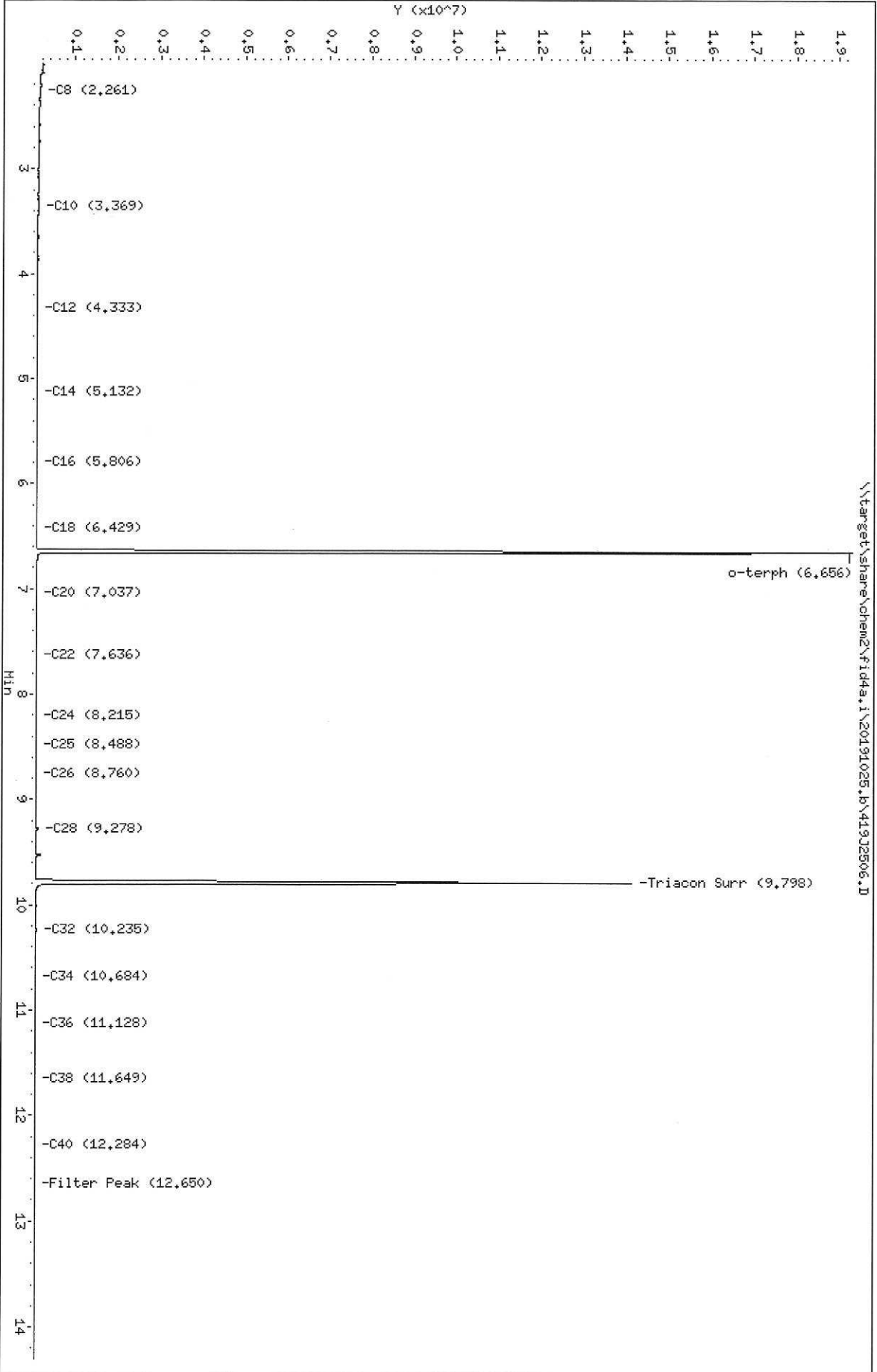
Datafile: FID4A, 20191025.b/419J2505.D SHJ0406-IBL1



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2506.D
Date: 25-OCT-2019 13:31
Client ID:
Sample Info: SHJ0406-IBL2

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTG/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2506.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-IBL2
Client ID:
Injection: 25-OCT-2019 13:31
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.261	-0.001	72509	76139	WATPHD	(C12-C24)	658319	4.1
C10	3.369	-0.004	30567	51207	WATPHM	(C24-C38)	758430	5.7
C12	4.333	-0.014	10639	19318	AK102	(C10-C25)	1520072	7.8
C14	5.132	0.003	5359	3169	AK103	(C25-C36)	566941	5.7
C16	5.806	-0.002	4115	5242	OR.DIES	(C10-C28)	1655230	8.4
C18	6.429	-0.006	2667	2060				
C20	7.037	-0.006	2150	2136				
C22	7.636	-0.002	7003	7700				
C24	8.215	0.000	1821	532				
C25	8.488	-0.005	1855	1750				
C26	8.760	-0.005	1926	1661				
C28	9.278	-0.007	68571	64137				
C32	10.235	-0.007	43108	83259				
C34	10.684	0.003	2246	1101				
Filter Peak	12.650	-0.001	8815	2632	CREOSOT	(C12-C22)	608888	156.1
C36	11.128	-0.001	4708	2306				
C38	11.649	-0.001	6915	2738				
C40	12.284	-0.005	8323	7406				
o-terph	6.656	-0.001	19264239	20580998				
Triacon Surr	9.798	-0.004	14079902	17993211	NAS DIES	(C10-C24)	1505820	7.7

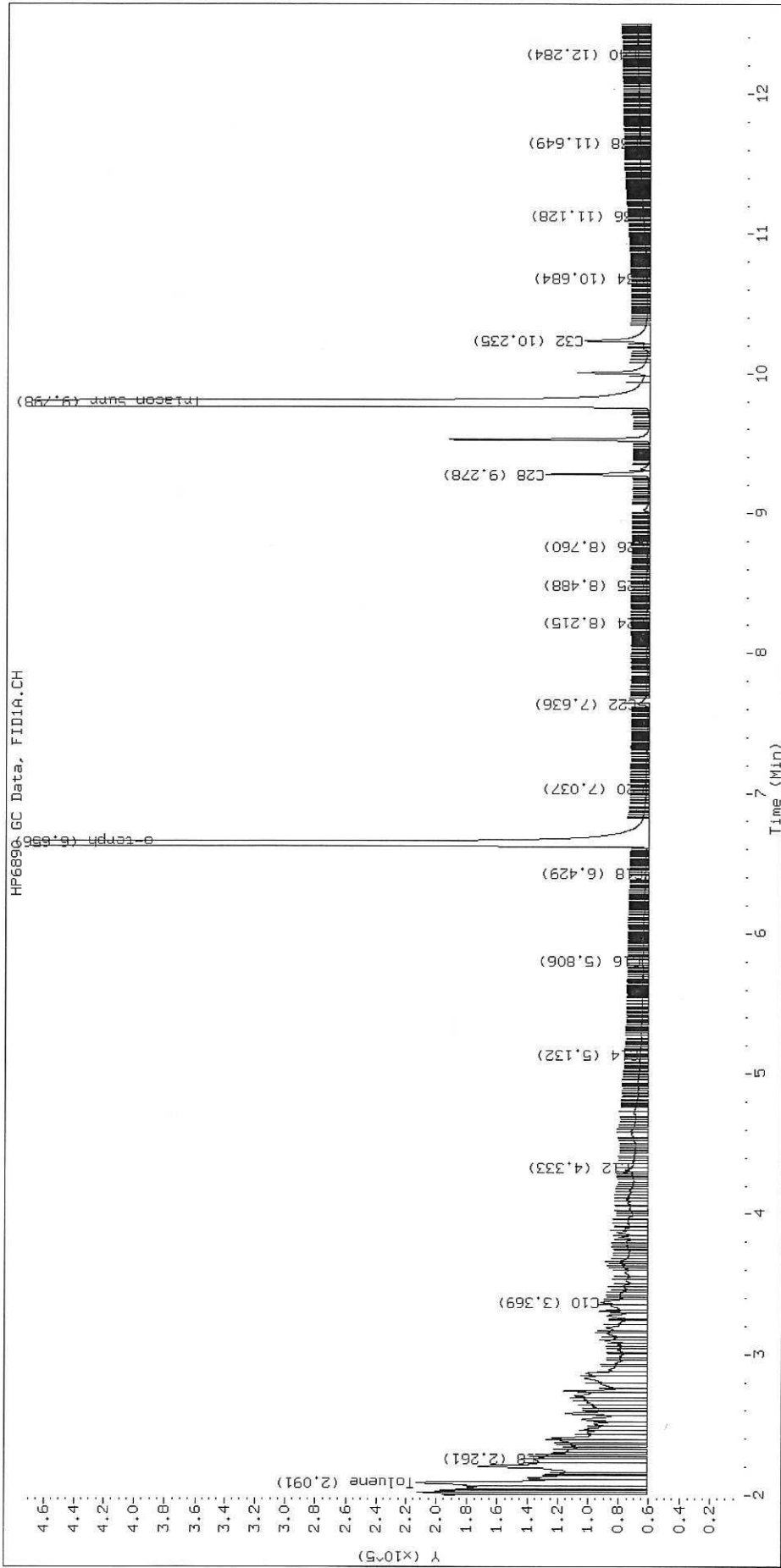
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	20580998	100.5
Triacontane	17993211	101.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

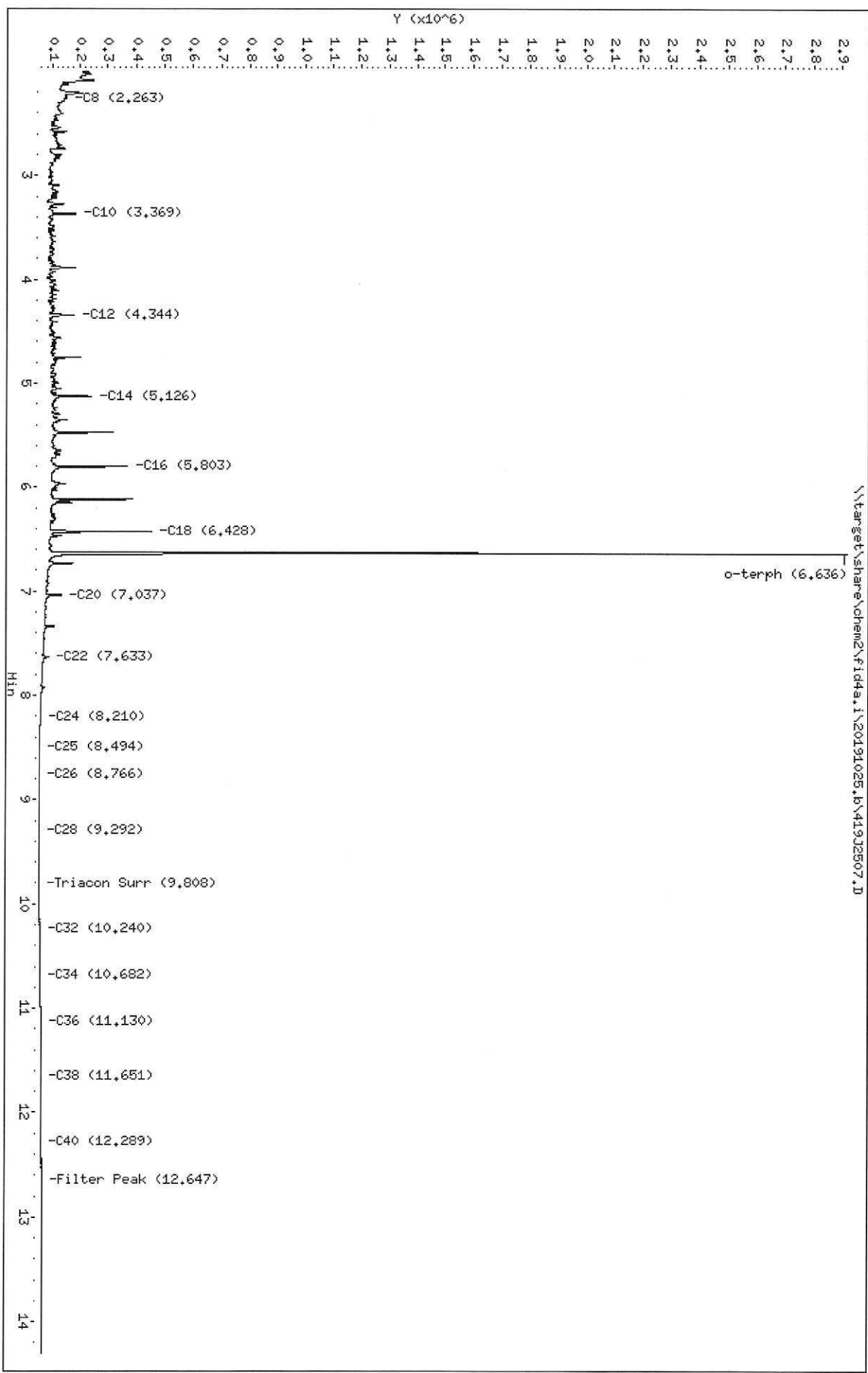
Datafile: FID4A, 20191025.b/419J2506.D SHJ0406-IBL2



Data File: \\target\share\chem2\fid4a.i\20191025.b\41932507.D
Date: 25-OCT-2019 13:52
Client ID:
Sample Info: SHJ0406-CLL1

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTD/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2507.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL1
Client ID:
Injection: 25-OCT-2019 13:52
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	94181	68499	WATPHD	(C12-C24)	9105717	57.1
C10	3.369	-0.004	130777	159818	WATPHM	(C24-C38)	651398	4.9
C12	4.344	-0.003	124752	202412	AK102	(C10-C25)	11867629	60.7
C14	5.126	-0.003	188715	181186	AK103	(C25-C36)	363608	3.6
C16	5.803	-0.004	314329	331178	OR.DIES	(C10-C28)	11884580	60.6
C18	6.428	-0.007	400639	334718				
C20	7.037	-0.006	83282	126537				
C22	7.633	-0.006	34959	59242				
C24	8.210	-0.005	6227	12090				
C25	8.494	0.001	1850	2300				
C26	8.766	0.001	428	167				
C28	9.292	0.007	424	156				
C32	10.240	-0.002	2740	1341				
C34	10.682	0.001	5209	2827				
Filter Peak	12.647	-0.003	12268	7963	CREOSOT	(C12-C22)	8913896	2285.1
C36	11.130	0.001	8291	3309				
C38	11.651	0.001	10488	3653				
C40	12.289	0.000	11687	5838				
o-terph	6.636	-0.021	2823547	1865140				
Triacon Surr	9.808	0.006	1874	1287	NAS DIES	(C10-C24)	11851657	60.7

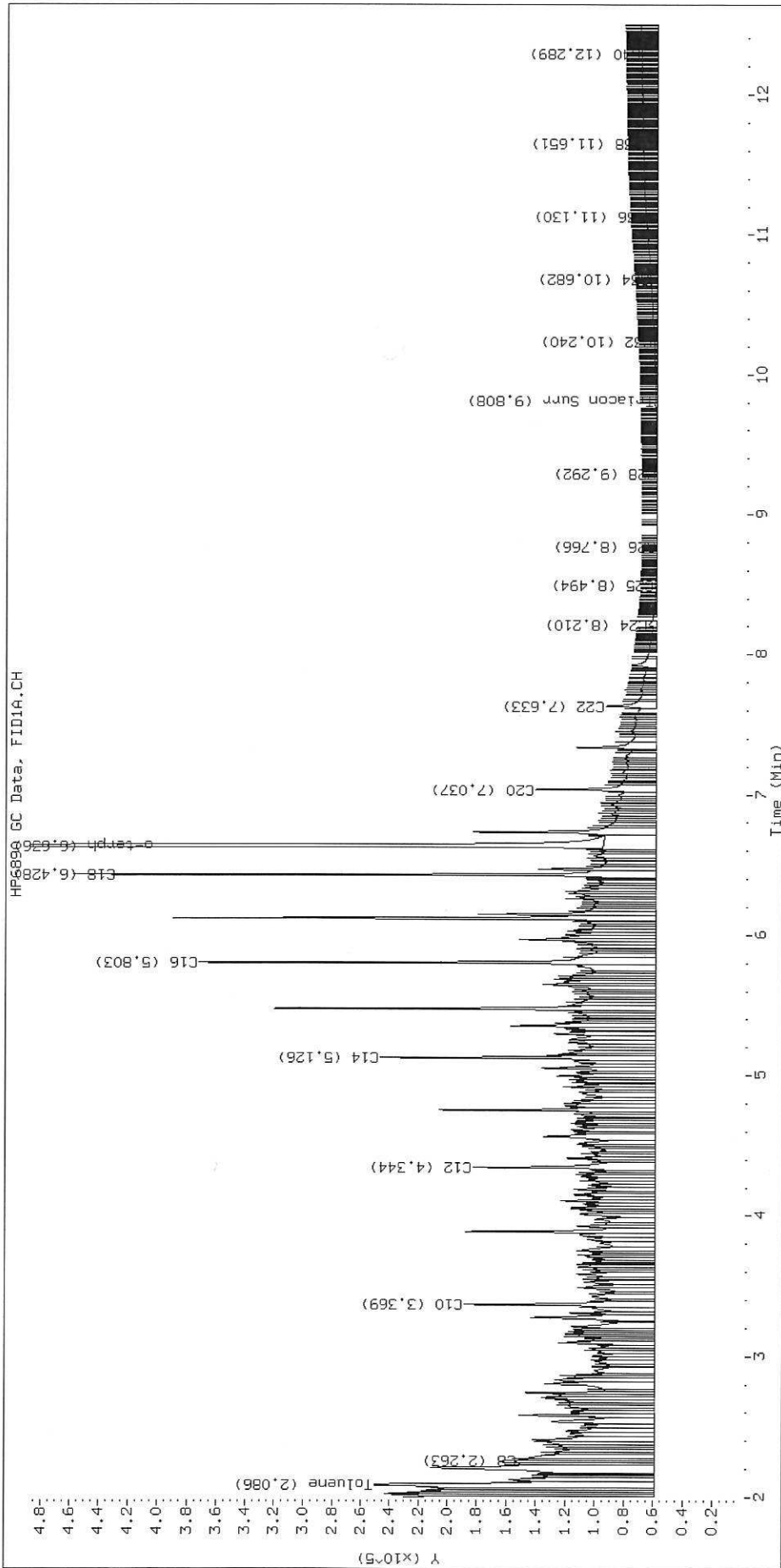
Range Times: NW Diesel (4.347 - 8.215) AK102 (3.37 - 8.49) Jet A (3.37 - 6.43)
NW M.Oil (8.21 - 11.65) AK103 (8.49 - 11.13) OR Diesel (3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	1865140	9.1
Triacontane	1287	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2507.D SHJ0406-CALL



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TTPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RTI	RT WINDOW	AVG RT	STD DEV
1 Toluene	2.086	2.091	2.092	2.084	2.085	2.093	2.089	1.989-2.189	2.089	0.004
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	2.263	2.252	2.253	2.254	2.254	2.254	2.262	2.162-2.362	2.255	0.004
3 C10	3.369	3.367	3.368	3.368	3.368	3.371	3.373	3.323-3.423	3.368	0.001
4 C12	4.344	4.344	4.344	4.344	4.346	4.351	4.347	4.297-4.397	4.345	0.003
5 C14	5.126	5.126	5.126	5.127	5.129	5.137	5.130	5.080-5.180	5.128	0.004
6 C16	5.803	5.802	5.803	5.805	5.809	5.818	5.807	5.757-5.857	5.807	0.006
7 C18	6.428	6.429	6.431	6.434	6.439	6.452	6.435	6.385-6.485	6.435	0.009
8 o-terph	6.636	6.640	6.646	6.655	6.669	6.696	6.656	6.606-6.706	6.657	0.023
9 C20	7.037	7.036	7.036	7.037	7.040	7.047	7.043	6.993-7.093	7.039	0.004
10 C22	7.633	7.631	7.631	7.631	7.633	7.637	7.639	7.589-7.689	7.633	0.002
11 C24	8.210	8.209	8.208	8.207	8.207	8.207	8.215	8.165-8.265	8.208	0.001
12 C25	8.494	8.489	8.488	8.485	8.486	8.485	8.493	8.443-8.543	8.488	0.003
13 C26	8.766	8.762	8.761	8.759	8.758	8.756	8.765	8.715-8.815	8.760	0.004
14 C28	9.292	9.288	9.287	9.281	9.279	9.279	9.285	9.235-9.335	9.284	0.005

Reviewer 1
Reviewer 2

Date:
Date:

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20191025.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RTI	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.808	9.805	9.803	9.798	9.806	9.800	9.802	9.752-9.852	9.803	0.004
16 C32	10.240	10.242	10.248	10.245	10.243	10.242	10.242	10.192-10.292	10.243	0.003
17 C34	10.682	10.678	10.683	10.684	10.687	10.677	10.681	10.631-10.731	10.682	0.004
18 Filter Peak	12.647	12.646	12.650	12.646	12.649	12.650	12.650	12.550-12.750	12.648	0.002
19 C36	11.130	11.127	11.127	11.131	11.127	11.129	11.129	11.079-11.179	11.128	0.002
20 C38	11.651	11.646	11.648	11.653	11.653	11.651	11.650	11.600-11.700	11.650	0.003
21 C40	12.289	12.291	12.292	12.287	12.283	12.288	12.289	12.239-12.339	12.288	0.003
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACresote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT06	RT06		
FILENAME:	419J2514	419J2515	419J2516	419J2517	419J2518	419J2519	419J2519	419J2519		
INJ. DATE:	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019		
INJ. TIME:	16:12	16:33	16:53	17:13	17:34	17:54	17:54	17:54		
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	2.092	2.092	2.092	2.093	2.092	2.092	2.089	1.989-2.189	2.092	0.000
38 NewCpnd_31	+++++	+++++	+++++	+++++	+++++	+++++	+++++	0.950-1.050	+++++	+++++
35 Mineral Oil	+++++	+++++	+++++	+++++	+++++	+++++	1.015	0.965-1.065	+++++	+++++
41 Mineral Spirits	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
2 C8	2.263	2.262	2.263	2.263	2.250	2.251	2.262	2.162-2.362	2.259	0.007
3 C10	3.376	3.377	3.376	3.376	3.371	3.369	3.373	3.323-3.423	3.374	0.003
4 C12	4.368	4.332	4.334	4.333	4.343	4.344	4.347	4.297-4.397	4.342	0.014
5 C14	5.134	5.134	5.125	5.127	5.126	5.126	5.130	5.080-5.180	5.129	0.004
6 C16	5.805	5.808	5.805	5.803	5.802	5.802	5.807	5.757-5.857	5.804	0.002
7 C18	6.435	6.432	6.439	6.428	6.427	6.427	6.435	6.385-6.485	6.431	0.005
8 o-terph	6.651	6.657	6.659	6.633	6.655	6.656	6.656	6.606-6.706	6.652	0.009
9 C20	7.038	7.038	7.036	7.048	7.051	7.035	7.043	6.993-7.093	7.041	0.006
10 C22	7.642	7.644	7.632	7.632	7.632	7.633	7.639	7.589-7.689	7.636	0.005
11 C24	8.214	8.212	8.215	8.217	8.215	8.219	8.215	8.165-8.265	8.215	0.002
12 C25	8.500	8.497	8.500	8.495	8.491	8.490	8.493	8.443-8.543	8.495	0.004
13 C26	8.760	8.767	8.760	8.769	8.765	8.770	8.765	8.715-8.815	8.765	0.005
14 C28	9.288	9.294	9.277	9.280	9.285	9.281	9.285	9.235-9.335	9.284	0.006

Reviewer 1 _____
Reviewer 2 _____

Date: _____
Date: _____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
 Batch File: \\target\share\chem2\fid4a.i\20191025.b
 Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT1	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.771	9.775	9.791	9.790	9.809	9.836	9.802	9.752-9.852	9.794	0.025
16 C32	10.243	10.233	10.235	10.238	10.249	10.237	10.242	10.192-10.292	10.239	0.006
17 C34	10.679	10.680	10.682	10.681	10.679	10.683	10.681	10.631-10.731	10.681	0.002
18 Filter Peak	12.652	12.648	12.655	12.648	12.650	12.666	12.650	12.550-12.750	12.653	0.007
19 C36	11.126	11.134	11.129	11.132	11.125	11.132	11.129	11.079-11.179	11.129	0.004
20 C38	11.652	11.650	11.655	11.651	11.649	11.647	11.650	11.600-11.700	11.651	0.002
21 C40	12.297	12.292	12.291	12.291	12.289	12.283	12.289	12.239-12.339	12.291	0.005
29 NW Diesel	+++++	+++++	+++++	+++++	+++++	+++++	0.899	0.849-0.949	+++++	+++++
37 ACresote	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
34 Jet A	+++++	+++++	+++++	+++++	+++++	+++++	1.024	0.974-1.074	+++++	+++++
30 NW Moil	+++++	+++++	+++++	+++++	+++++	+++++	0.885	0.835-0.935	+++++	+++++
31 NW AK102	+++++	+++++	+++++	+++++	+++++	+++++	0.803	0.753-0.853	+++++	+++++
32 Bunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.812	0.762-0.862	+++++	+++++
33 AK103	+++++	+++++	+++++	+++++	+++++	+++++	1.344	1.294-1.394	+++++	+++++
36 ABunker C	+++++	+++++	+++++	+++++	+++++	+++++	0.985	0.935-1.035	+++++	+++++
39 OR Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++
40 NAS Diesel	+++++	+++++	+++++	+++++	+++++	+++++	1.000	0.950-1.050	+++++	+++++

Data File: \\target\share\chem2\fid4a.1\20191025.b\419J2508.D

Date : 25-OCT-2019 14:12

Client ID:

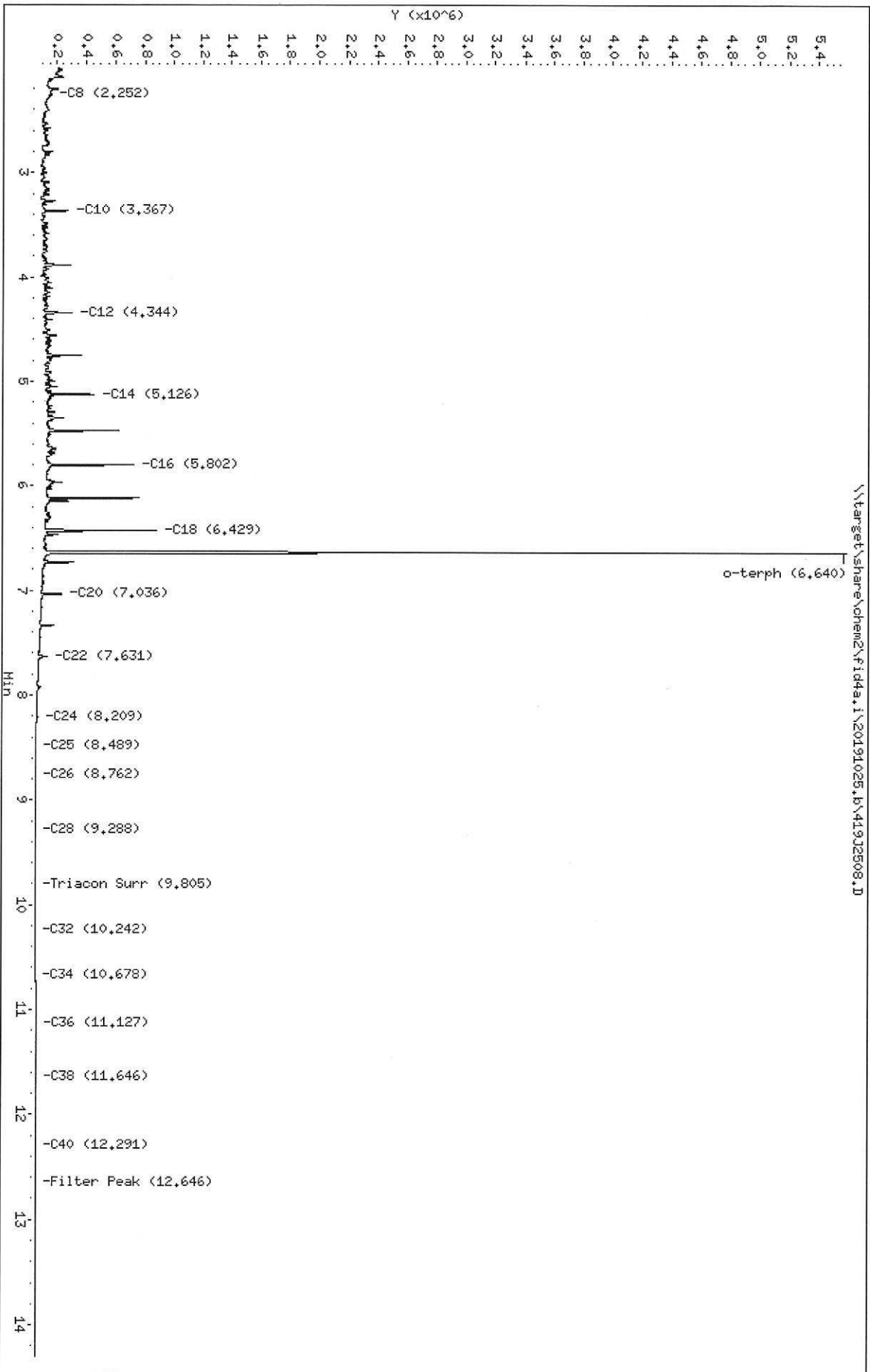
Sample Info: SHJ0406-CAL2

Column phase: RTX-1

Instrument: fid4a.1

Operator: CT0/SH/VTS/JGR

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2508.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL2
Client ID:
Injection: 25-OCT-2019 14:12
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.252	-0.010	100789	199426	WATPHD	(C12-C24)	16216844	101.8
C10	3.367	-0.006	219354	239129	WATPHM	(C24-C38)	605463	4.6
C12	4.344	-0.003	250355	355289	AK102	(C10-C25)	20356499	104.1
C14	5.126	-0.004	400436	340538	AK103	(C25-C36)	329685	3.3
C16	5.802	-0.005	670430	513156	OR.DIES	(C10-C28)	20386032	104.0
C18	6.429	-0.006	830433	585845				
C20	7.036	-0.007	189557	206229				
C22	7.631	-0.007	81567	107164				
C24	8.209	-0.006	13975	32117				
C25	8.489	-0.004	4286	7117				
C26	8.762	-0.002	1237	1115				
C28	9.288	0.003	364	105				
C32	10.242	0.000	2184	855				
C34	10.678	-0.003	4506	5051				
Filter Peak	12.646	-0.005	11019	4947	CREOSOT	(C12-C22)	15825625	4056.9
C36	11.127	-0.002	7155	1771				
C38	11.646	-0.004	9240	6899				
C40	12.291	0.002	10430	5163				
o-terph	6.640	-0.017	5468385	3642280				
Triacon Surr	9.805	0.003	1078	368	NAS DIES	(C10-C24)	20331247	104.2

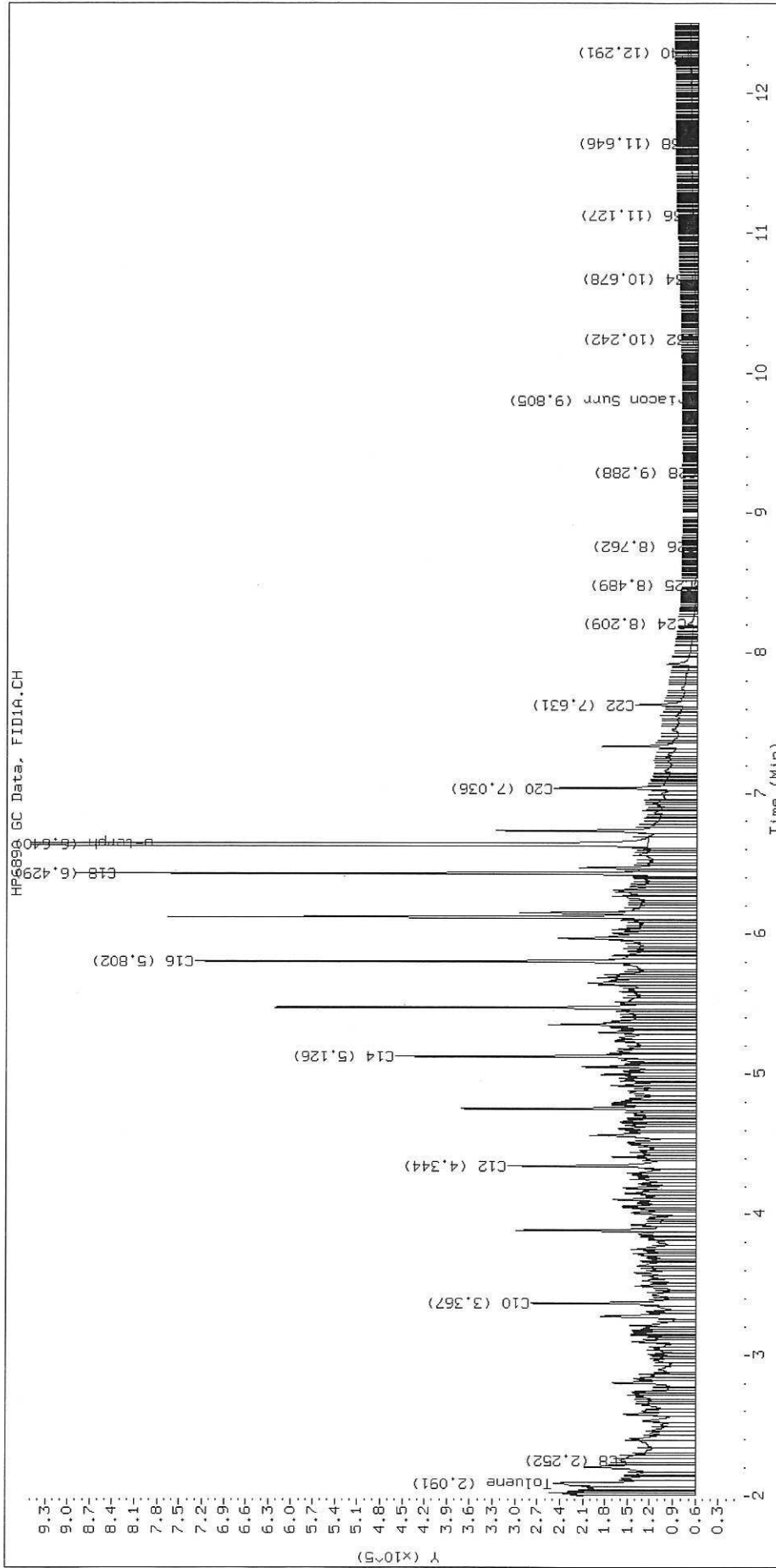
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

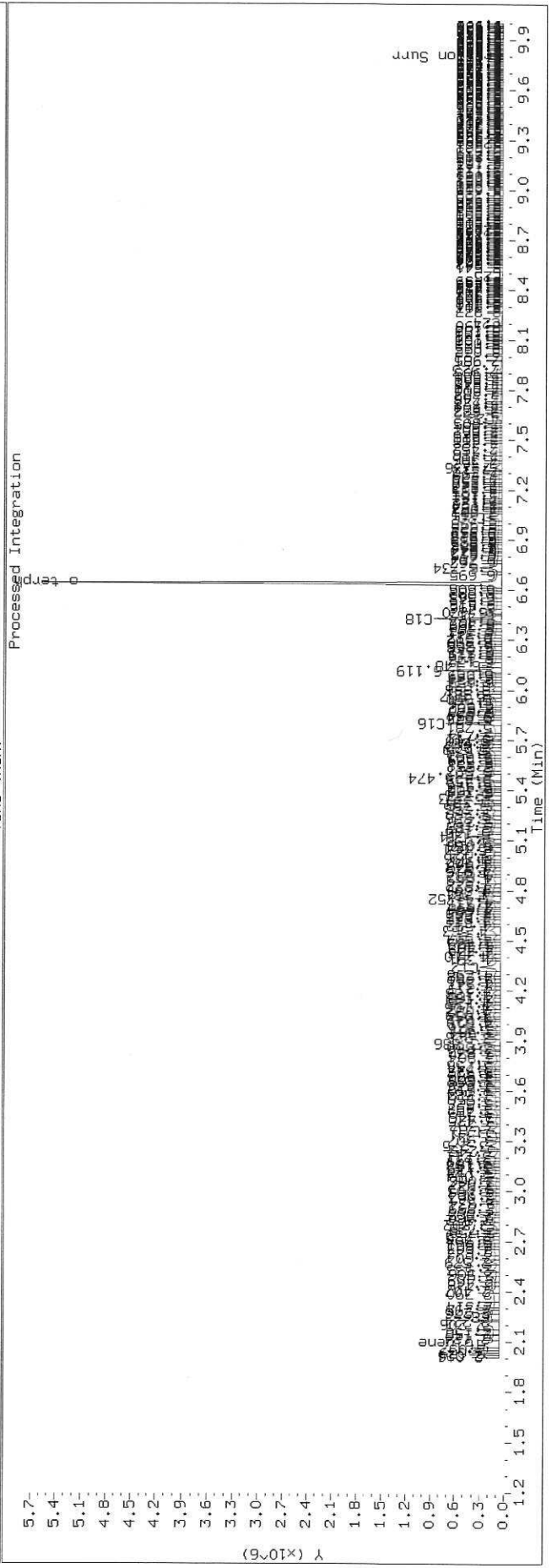
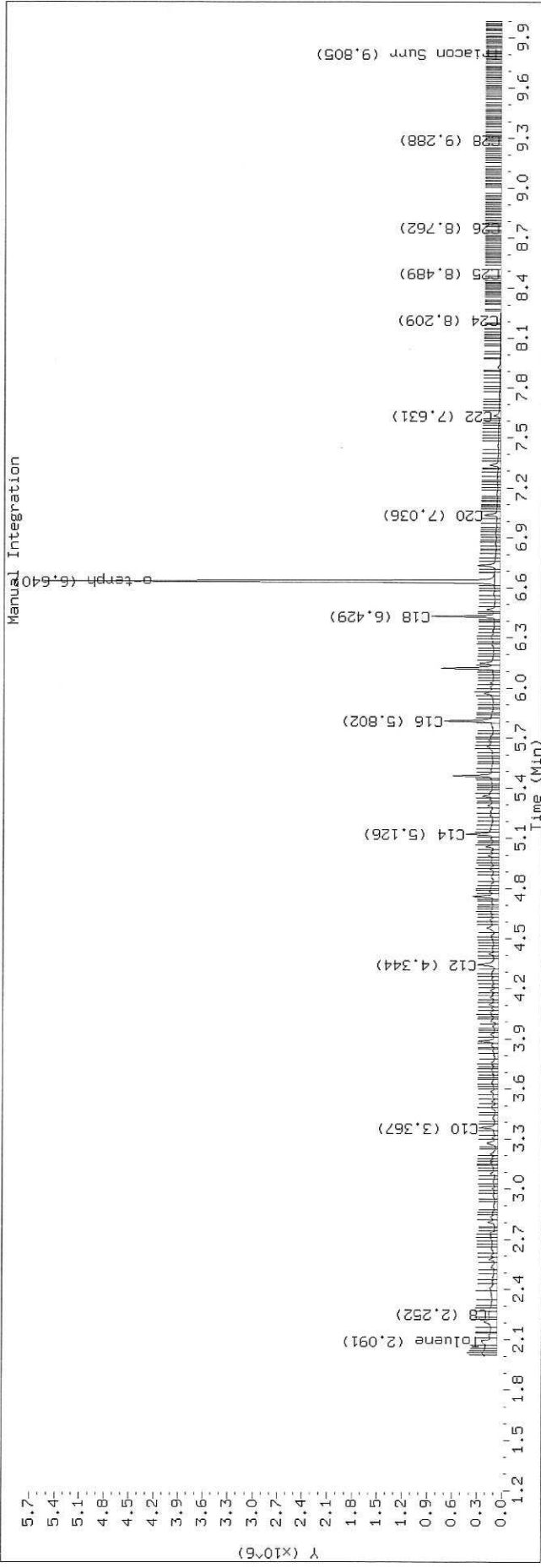
Surrogate	Area	Amount
o-Terphenyl	3642280	17.8 M
Triacontane	368	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2508.D SHJ0406-CAL2

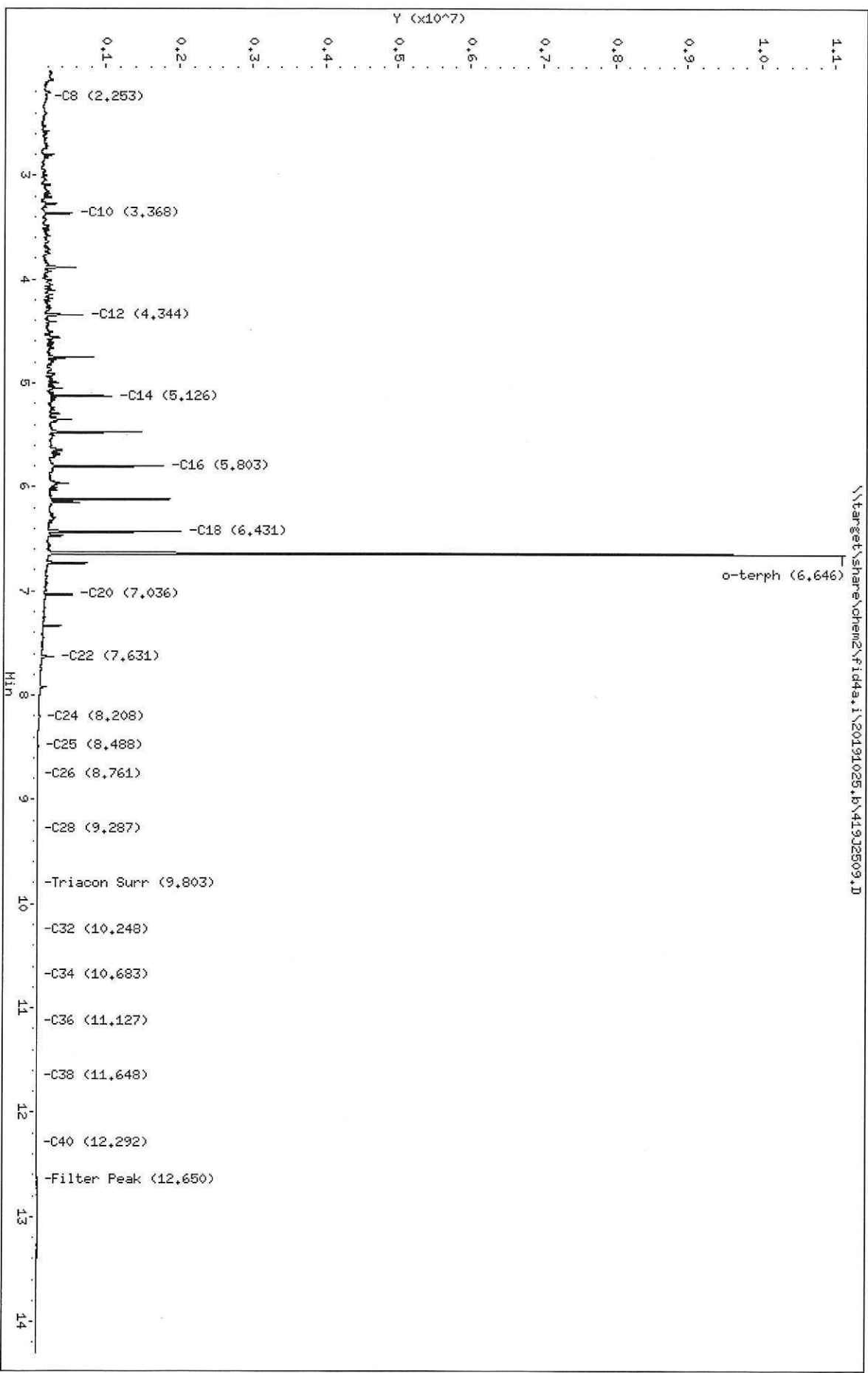




Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2509.D
Date: 25-OCT-2019 14:32
Client ID:
Sample Info: SHJ0406-CAL3

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2509.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL3
Client ID:
Injection: 25-OCT-2019 14:32
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

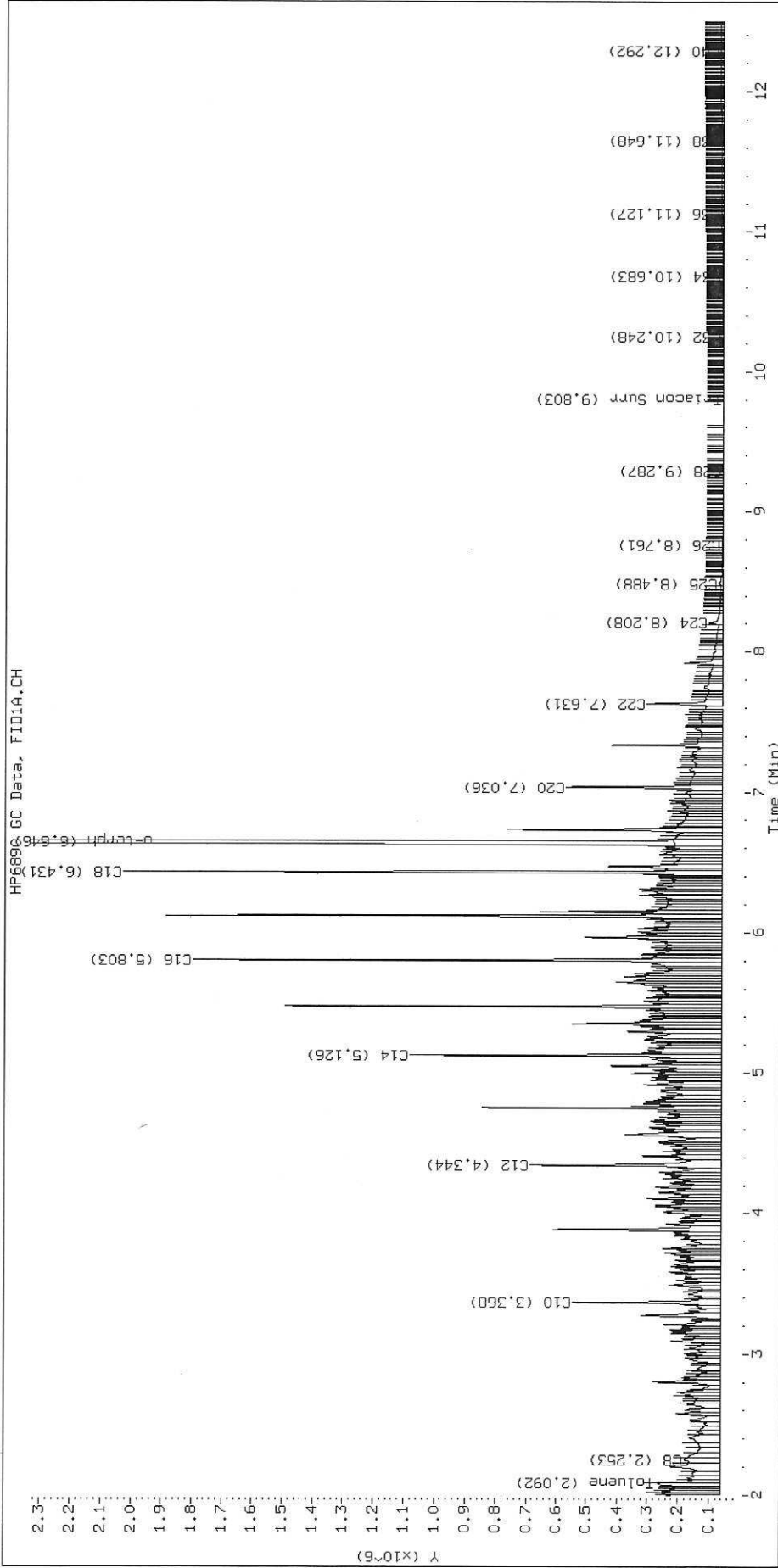
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.253	-0.009	118722	240565	WATPHD	(C12-C24)	37913827	237.9
C10	3.368	-0.005	483544	476749	WATPHM	(C24-C38)	575858	4.3
C12	4.344	-0.003	627626	779062	AK102	(C10-C25)	46188702	236.3
C14	5.126	-0.004	1022309	790022	AK103	(C25-C36)	284914	2.8
C16	5.803	-0.004	1736531	1218478	OR.DIES	(C10-C28)	46284811	236.1
C18	6.431	-0.004	1970150	1409422				
C20	7.036	-0.007	509531	494893				
C22	7.631	-0.008	243435	281583				
C24	8.208	-0.007	43836	95774				
C25	8.488	-0.005	13614	32431				
C26	8.761	-0.004	4384	8919				
C28	9.287	0.001	605	214				
C32	10.248	0.006	1381	707				
C34	10.683	0.001	3151	1389				
Filter Peak	12.650	-0.000	9358	3271	CREOSOT	(C12-C22)	36811374	9436.7
C36	11.127	-0.002	5536	1099				
C38	11.648	-0.002	7679	4193				
C40	12.292	0.003	8799	4362				
o-terph	6.646	-0.010	10937727	8968221				
Triacon Surr	9.803	0.001	295	103	NAS DIES	(C10-C24)	46106144	236.3
Range Times:	NW Diesel(4.347 - 8.215)			AK102(3.37 - 8.49)		Jet A(3.37 - 6.43)		
	NW M.Oil(8.21 - 11.65)			AK103(8.49 - 11.13)		OR Diesel(3.37 - 9.29)		

Surrogate	Area	Amount
o-Terphenyl	8968221	43.8
Triacontane	103	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2509.D SHJ0406-CAL3



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2510.D

Date: 25-OCT-2019 14:53

Client ID:

Sample Info: SHJ0406-CAL4

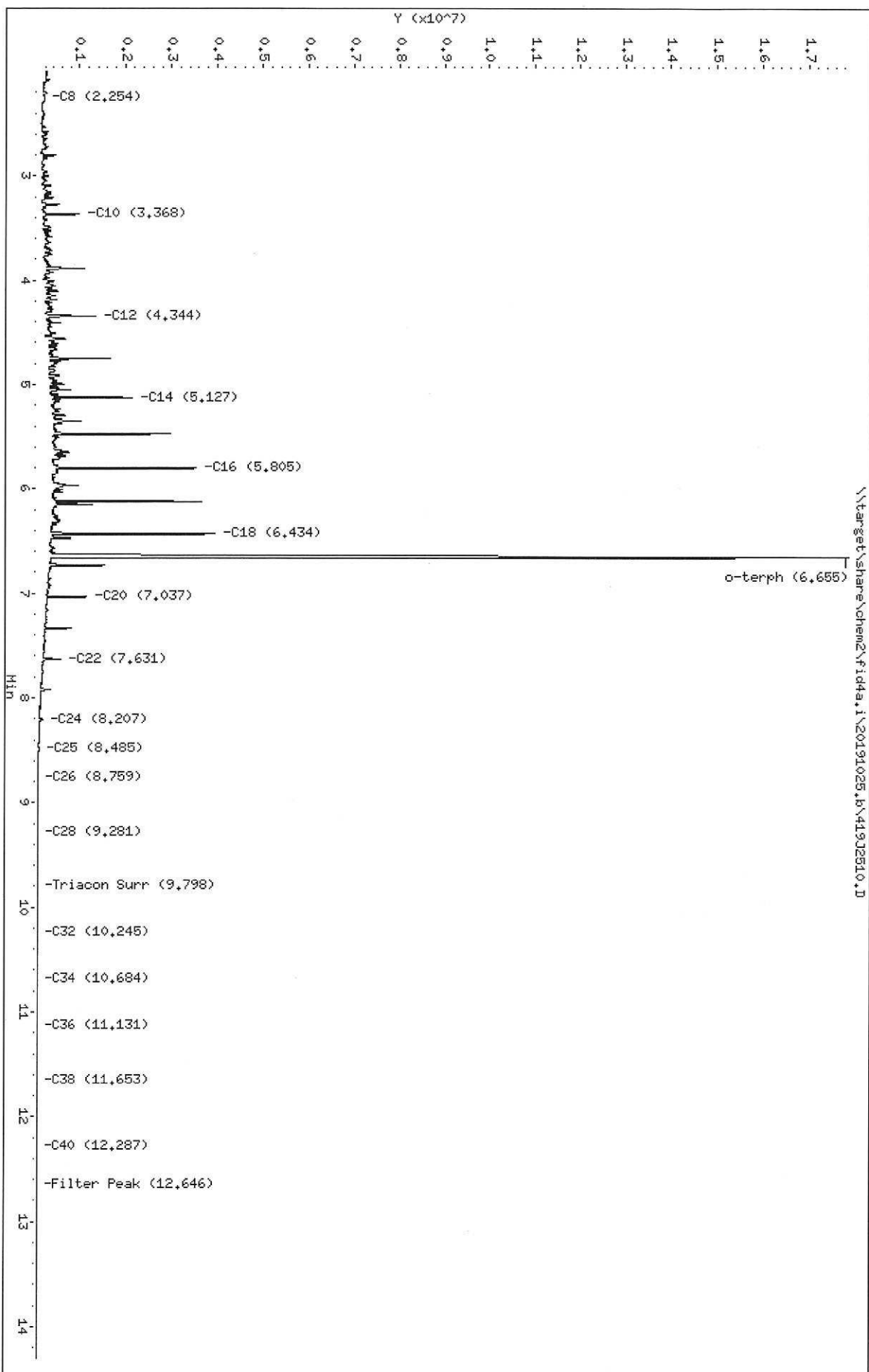
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTD/SH/WTS/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a.i\20191025.b\419J2510.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2510.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL4
Client ID:
Injection: 25-OCT-2019 14:53
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.254	-0.009	133720	272365	WATPHD	(C12-C24)	76110005	477.7
C10	3.368	-0.005	913330	831182	WATPHM	(C24-C38)	747310	5.6
C12	4.344	-0.004	1278885	1502773	AK102	(C10-C25)	90903979	465.0
C14	5.127	-0.003	2082835	1580085	AK103	(C25-C36)	436439	4.4
C16	5.805	-0.002	3492654	2476612	OR.DIES	(C10-C28)	91160529	465.1
C18	6.434	-0.001	3902008	2902073				
C20	7.037	-0.006	1095165	935641				
C22	7.631	-0.008	544650	574105				
C24	8.207	-0.008	109625	202080				
C25	8.485	-0.008	35990	71794				
C26	8.759	-0.006	12661	25763				
C28	9.281	-0.004	1585	1856				
C32	10.245	0.003	1048	453				
C34	10.684	0.002	3071	1964				
Filter Peak	12.646	-0.004	3825	2093	CREOSOT	(C12-C22)	73861119	18934.4
C36	11.131	0.002	4915	3154				
C38	11.653	0.003	5457	2692				
C40	12.287	-0.002	4261	1483				
o-terph	6.655	-0.001	17508754	18236498				
Triacon Surr	9.798	-0.004	325	112	NAS DIES	(C10-C24)	90741143	465.0

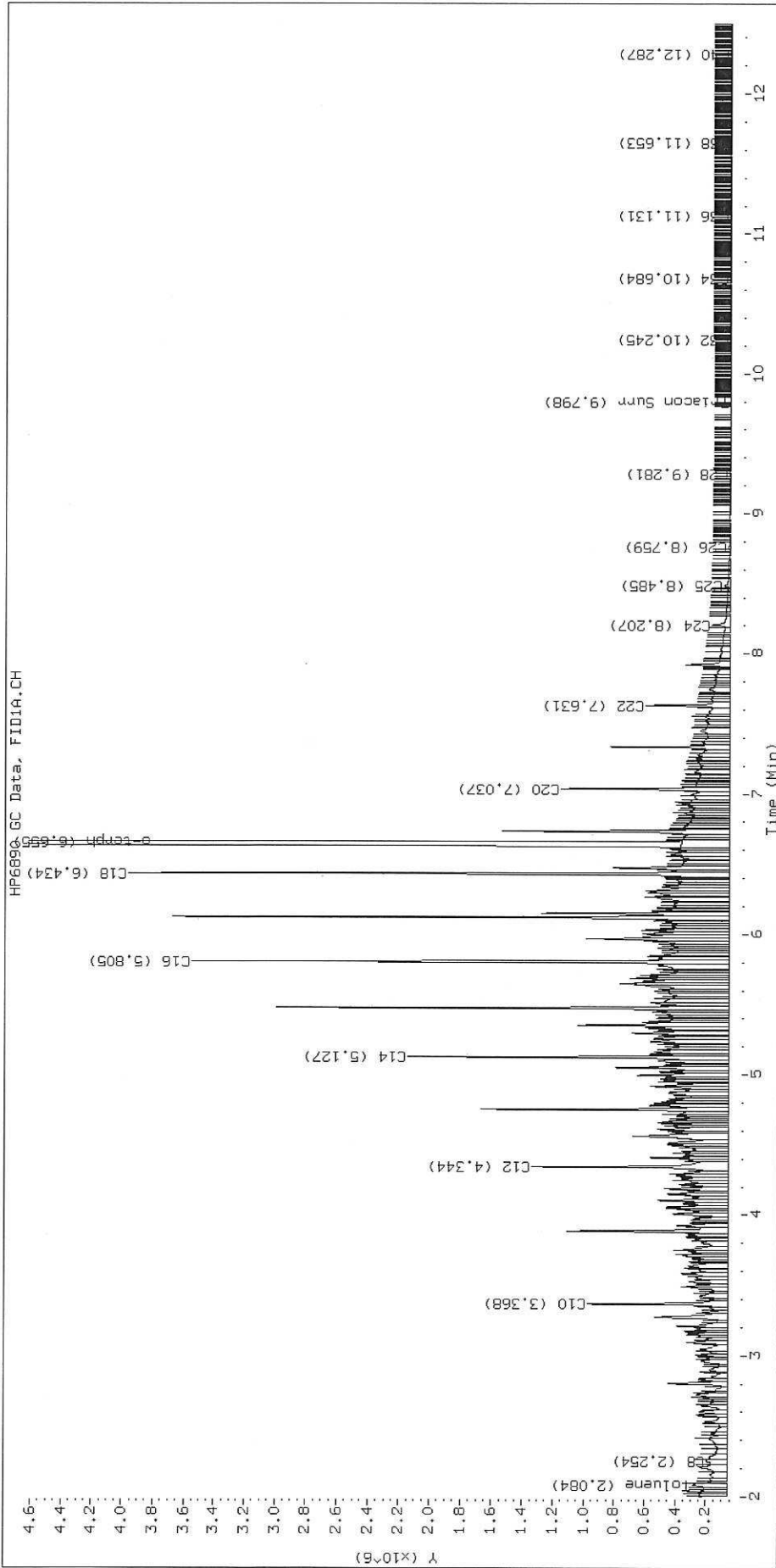
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

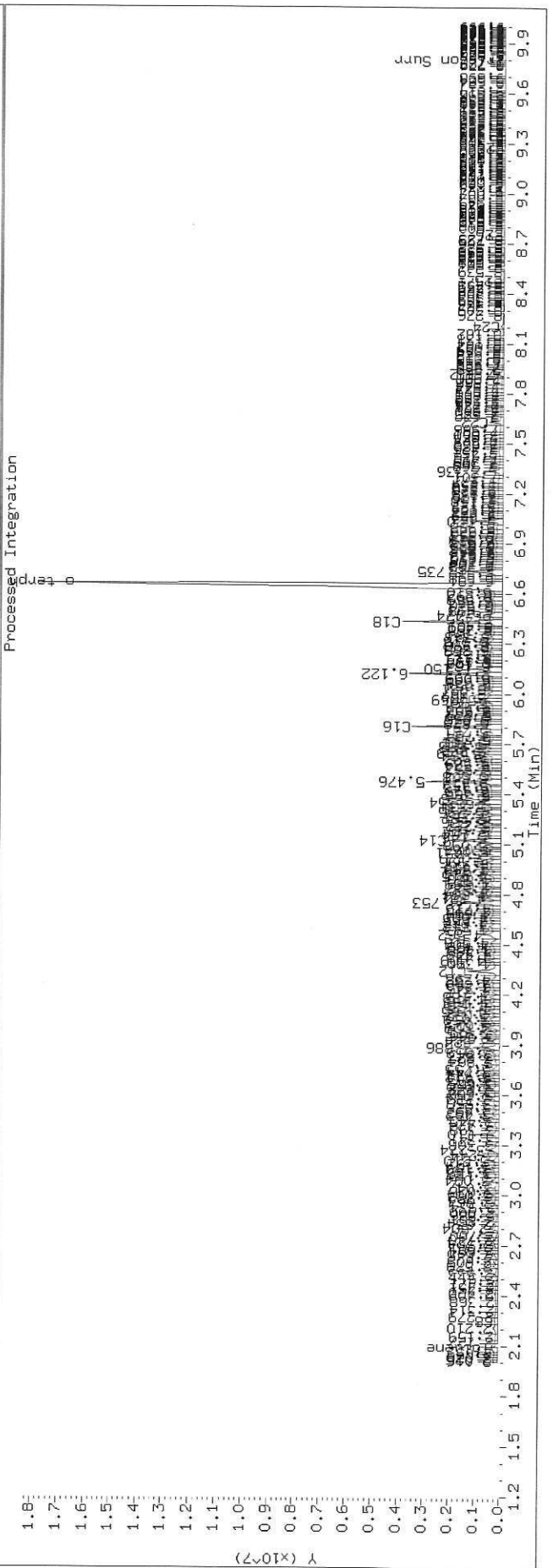
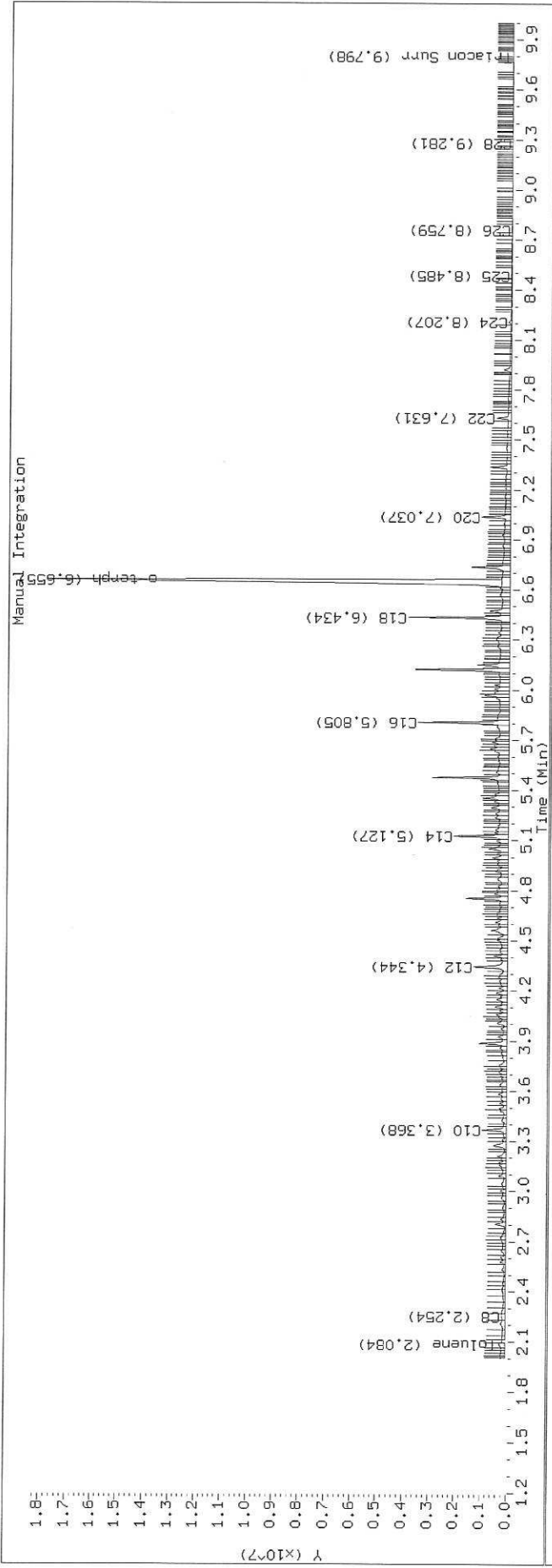
Surrogate	Area	Amount
o-Terphenyl	18236498	89.1 M
Triacotane	112	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.q/419J2510.D SHJ0406-CAL4

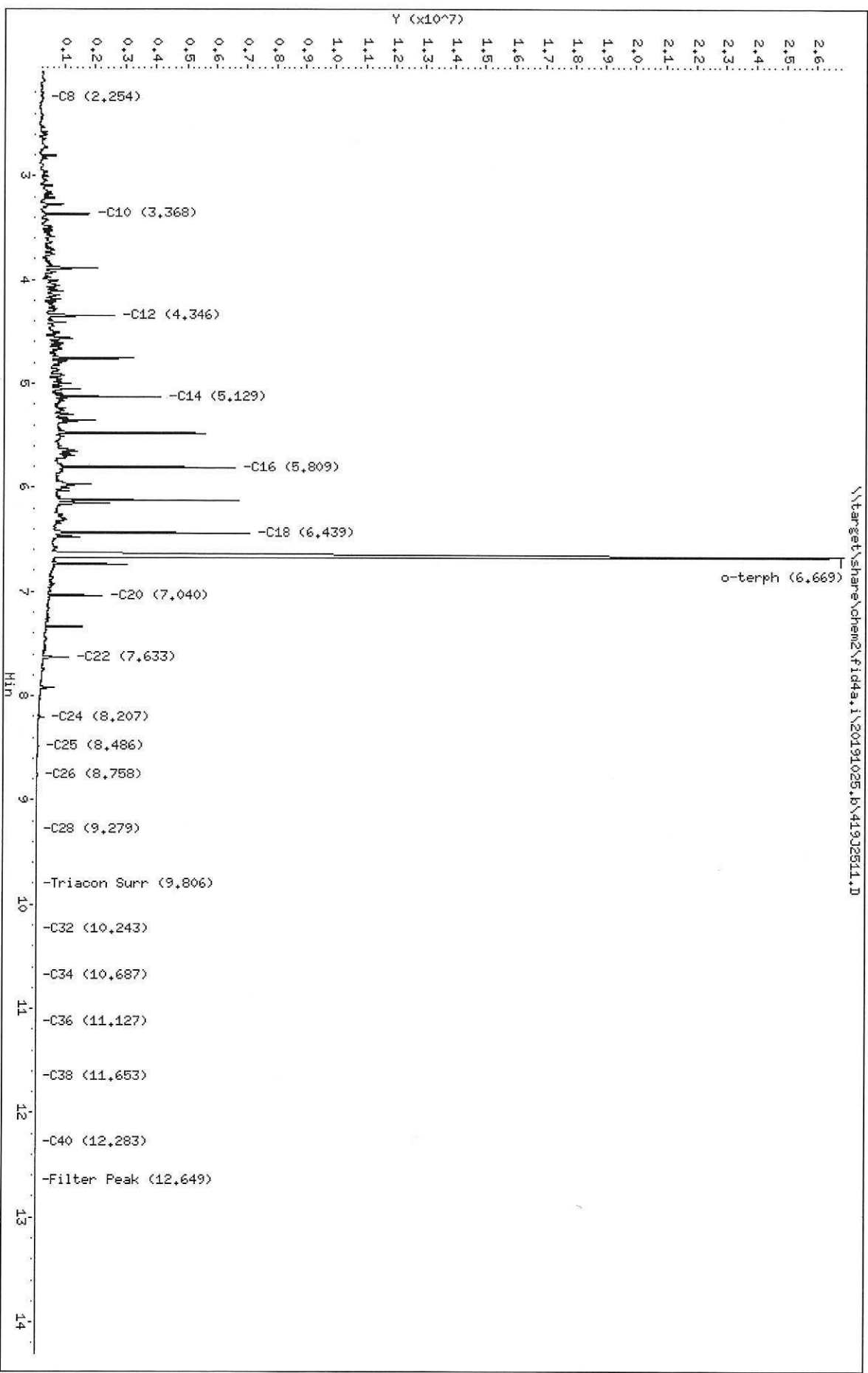




Data File: \\target\share\chem2\fid4a.i\20191025.b\41932511.D
Date: 25-OCT-2019 15:13
Client ID:
Sample Info: SHJ0406-CALS

Column phase: RTX-1

Instrument: fid4a.i
Operator: CT0/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2511.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALS
Client ID:
Injection: 25-OCT-2019 15:13
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.254	-0.008	179896	310888	WATPHD	(C12-C24)	153066747	960.6
C10	3.368	-0.005	1739085	1592987	WATPHM	(C24-C38)	1270800	9.6
C12	4.346	-0.001	2582378	2992597	AK102	(C10-C25)	181956494	930.8
C14	5.129	-0.000	4119910	3175625	AK103	(C25-C36)	821445	8.2
C16	5.809	0.002	6560457	4974499	OR.DIES	(C10-C28)	182680399	932.0
C18	6.439	0.005	7062206	6028122				
C20	7.040	-0.003	2215368	1892870				
C22	7.633	-0.006	1144174	997771				
C24	8.207	-0.008	250003	385382				
C25	8.486	-0.007	89395	162170				
C26	8.758	-0.007	33365	80915				
C28	9.279	-0.006	6648	16116				
C32	10.243	0.001	219	113				
C34	10.687	0.005	471	169				
Filter Peak	12.649	-0.001	3299	1299	CREOSOT	(C12-C22)	148274267	38010.4
C36	11.127	-0.002	1506	512				
C38	11.653	0.003	2117	932				
C40	12.283	-0.006	2712	1056				
o-terph	6.669	0.013	26284682	37244787				
Triacon Surr	9.806	0.004	1398	1069	NAS DIES	(C10-C24)	181561688	930.4

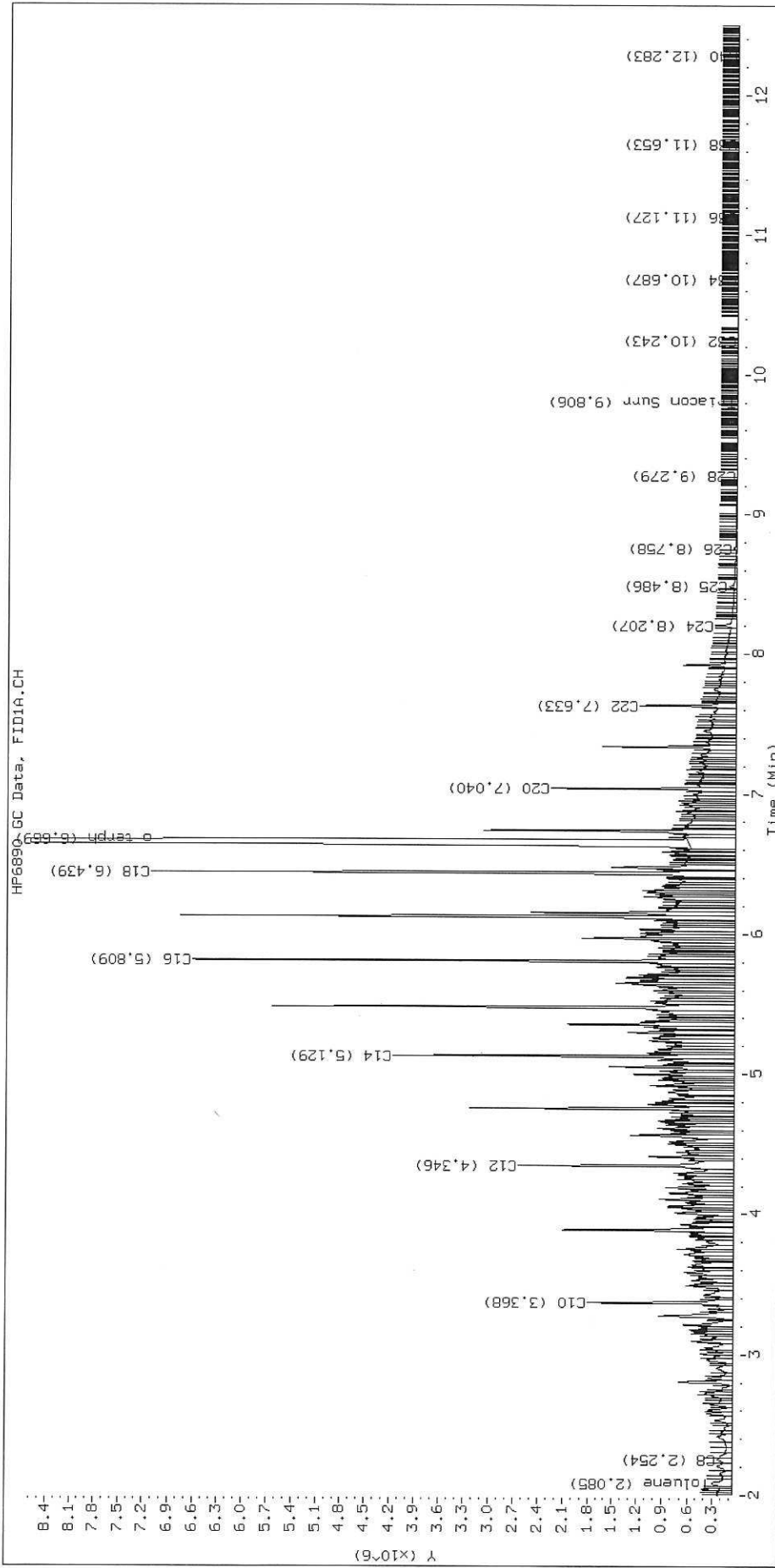
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

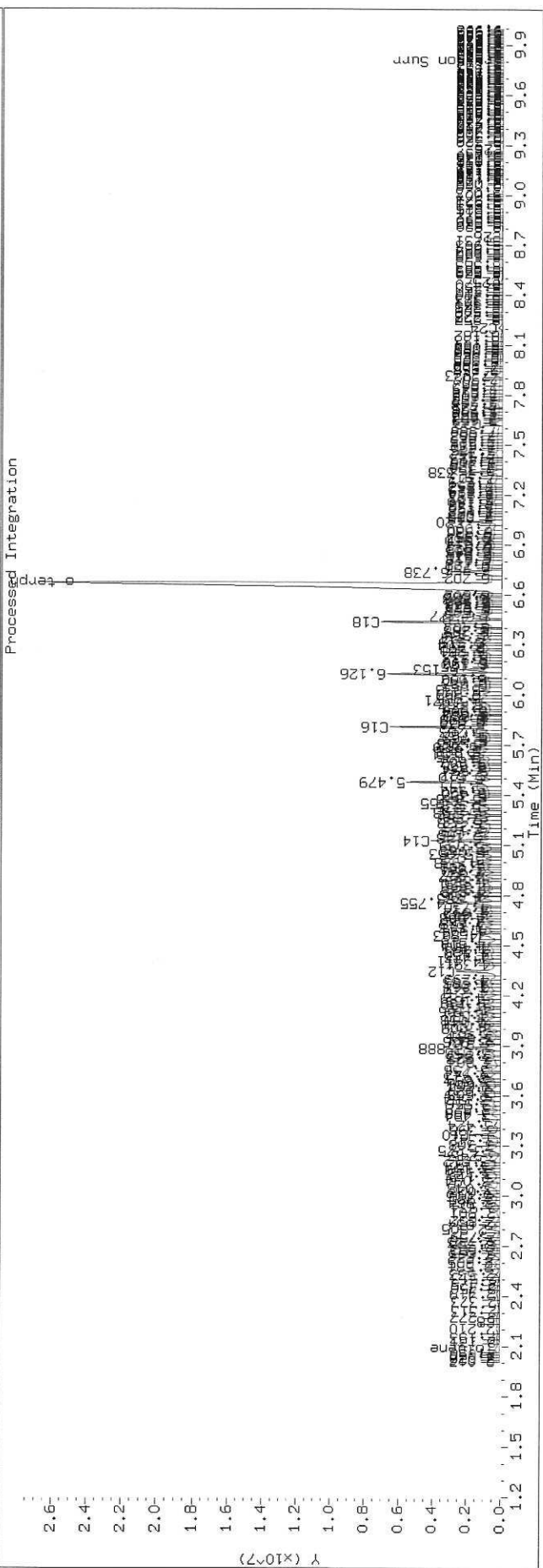
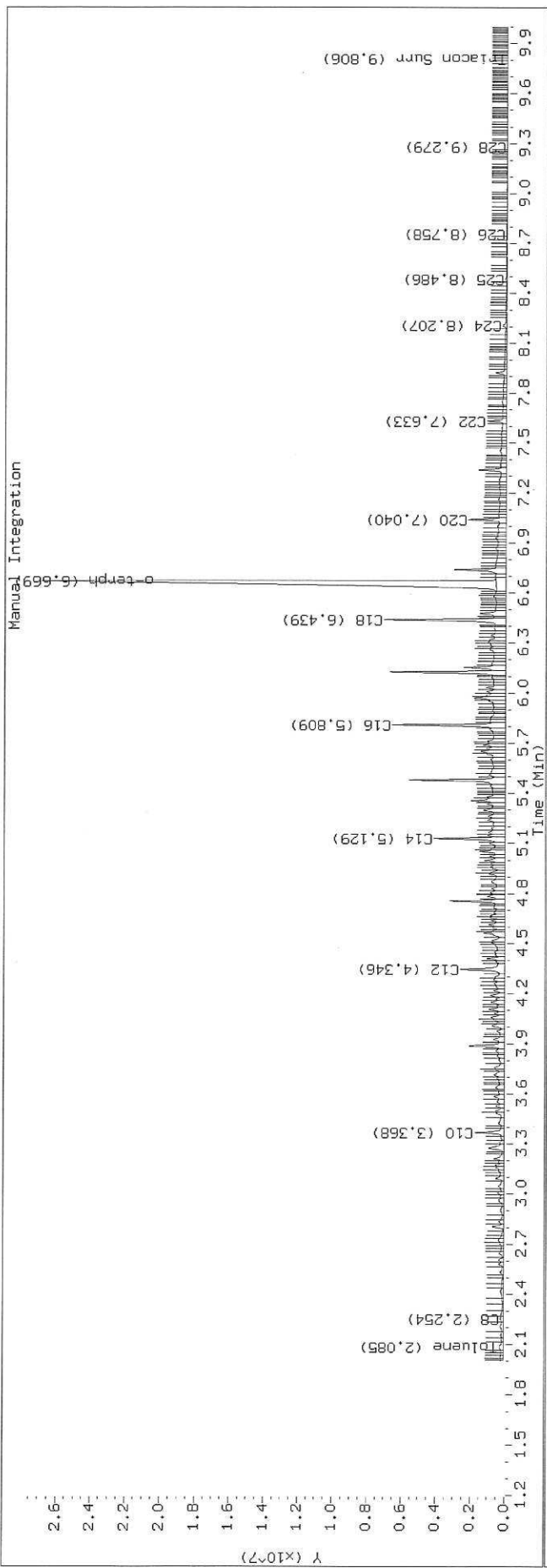
Surrogate	Area	Amount
o-Terphenyl	37244787	181.9 M
Triacontane	1069	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2511.D SHJ0406-CAL5



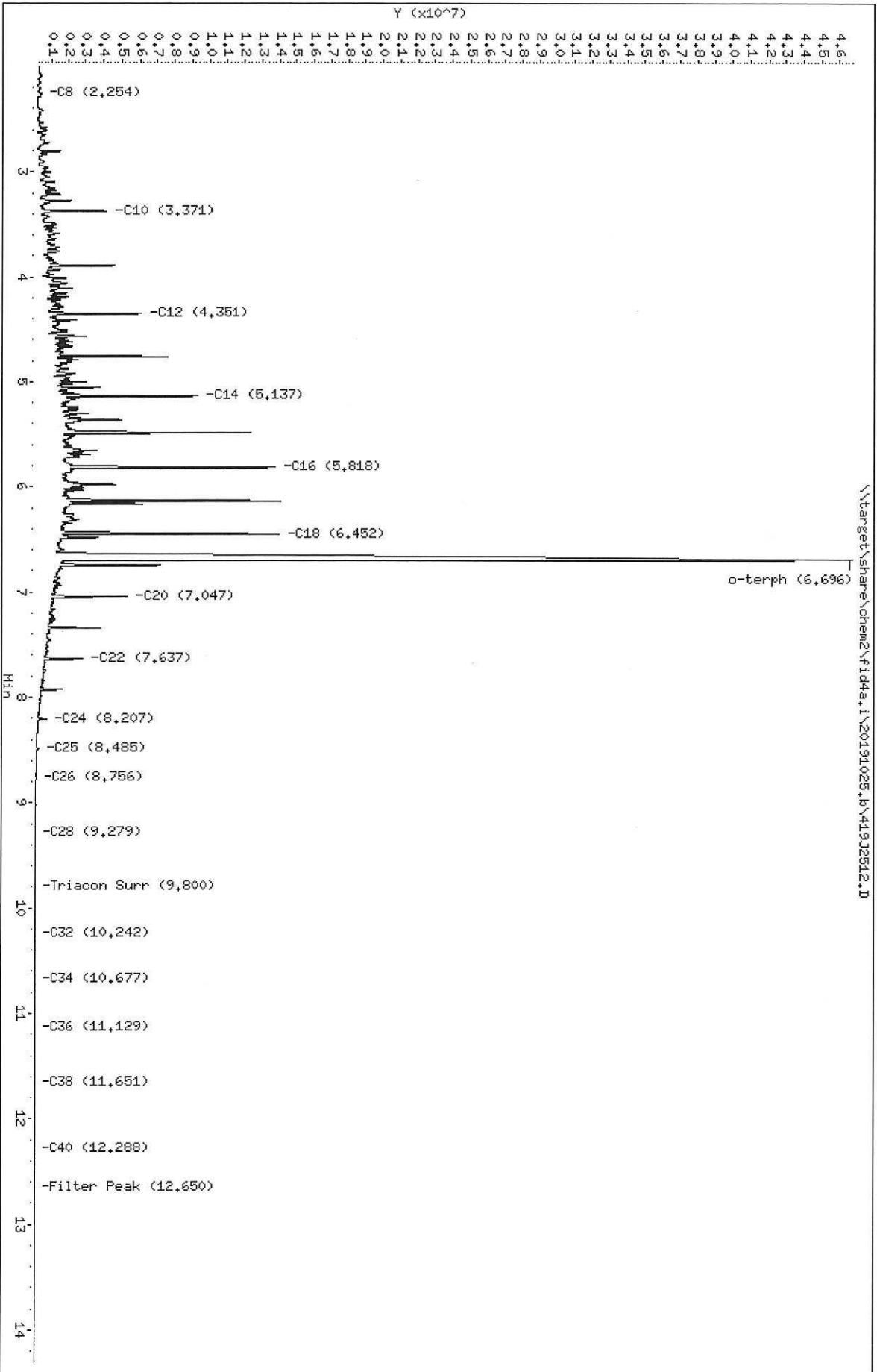


Data File: \\target\share\chem2\Fid4a.I\20191025.b\419J2512.D
Date: 25-OCT-2019 15:32
Client ID:
Sample Info: SHJ0406-CAL6

Instrument: fid4a.i

Column phase: RTX-1

Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2512.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL6
Client ID:
Injection: 25-OCT-2019 15:32
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.254	-0.008	310597	486343	WATPHD	(C12-C24)	386988567	2428.7
C10	3.371	-0.002	4067321	3926897	WATPHM	(C24-C38)	3326156	25.1
C12	4.351	0.004	6051560	7536066	AK102	(C10-C25)	458776536	2346.8
C14	5.137	0.007	9257057	8197076	AK103	(C25-C36)	2148648	21.5
C16	5.818	0.011	13762212	12844924	OR.DIES	(C10-C28)	460755382	2350.8
C18	6.452	0.017	13977204	16316405				
C20	7.047	0.004	5292354	4776661				
C22	7.637	-0.002	2821591	2512756				
C24	8.207	-0.007	692936	731199				
C25	8.485	-0.008	261257	416815				
C26	8.756	-0.009	100686	191231				
C28	9.279	-0.006	17823	35082				
C32	10.242	-0.001	483	193				
C34	10.677	-0.004	847	428				
Filter Peak	12.650	-0.001	5215	3893	CREOSOT	(C12-C22)	374231679	95935.0
C36	11.129	0.000	2243	1721				
C38	11.651	0.001	3497	1043				
C40	12.288	-0.001	4517	2473				
o-terph	6.696	0.039	45134516	94404433				
Triacon Surr	9.800	-0.002	2320	892	NAS DIES	(C10-C24)	457687210	2345.3

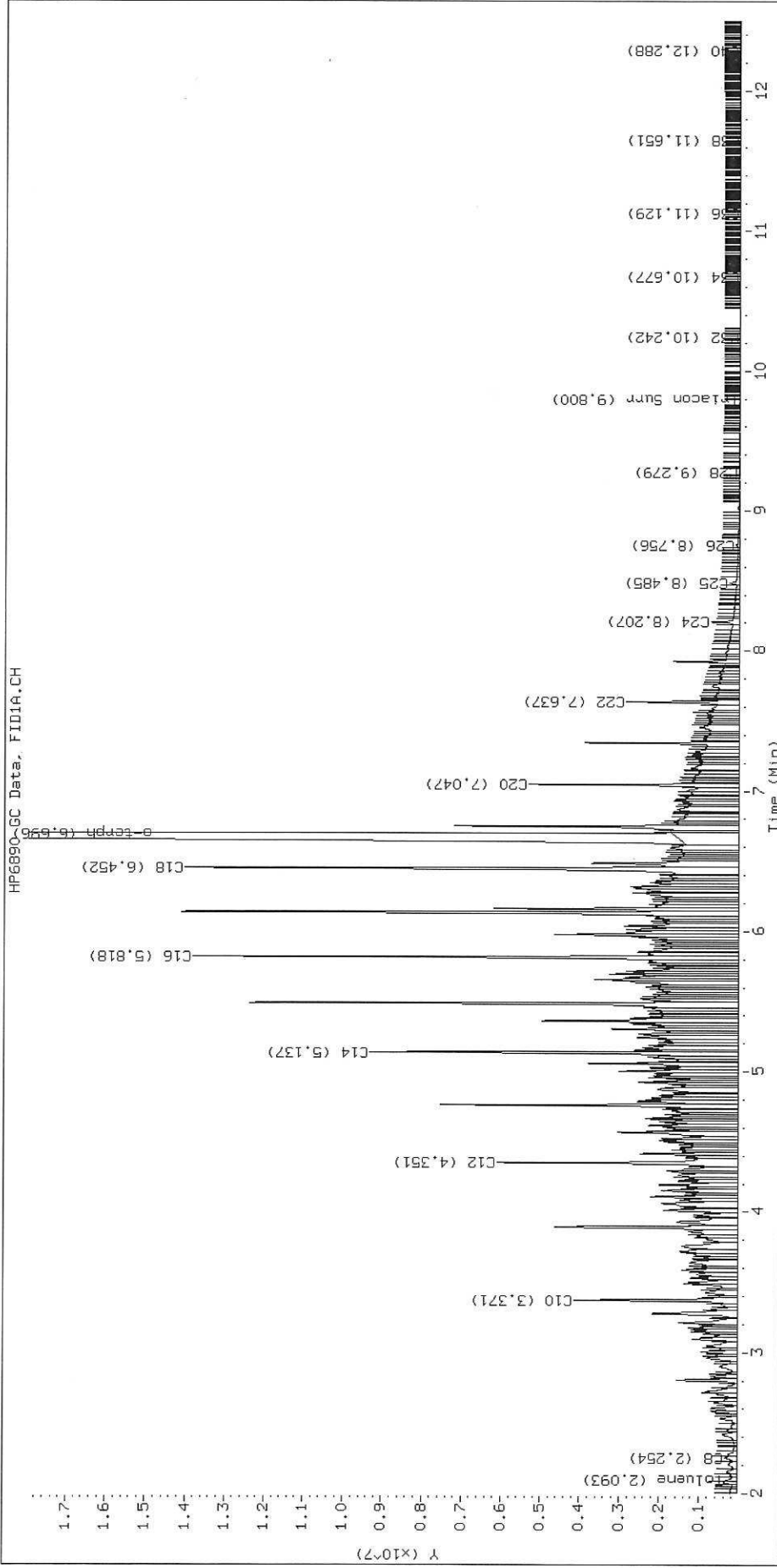
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

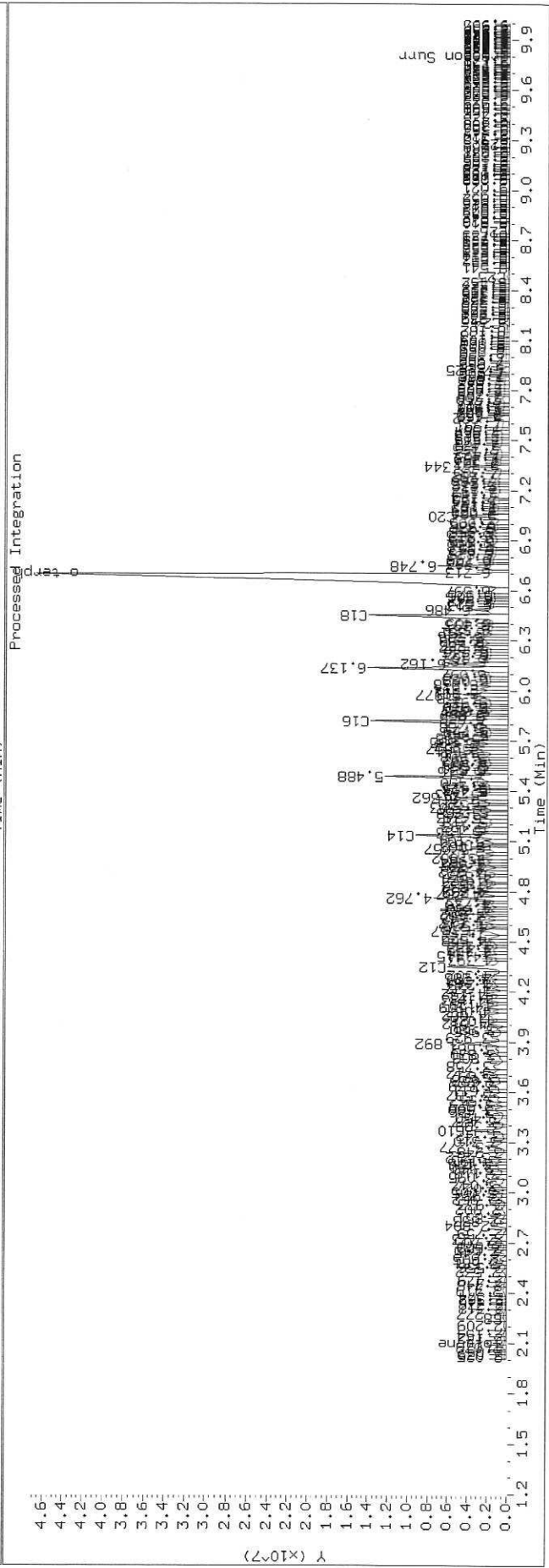
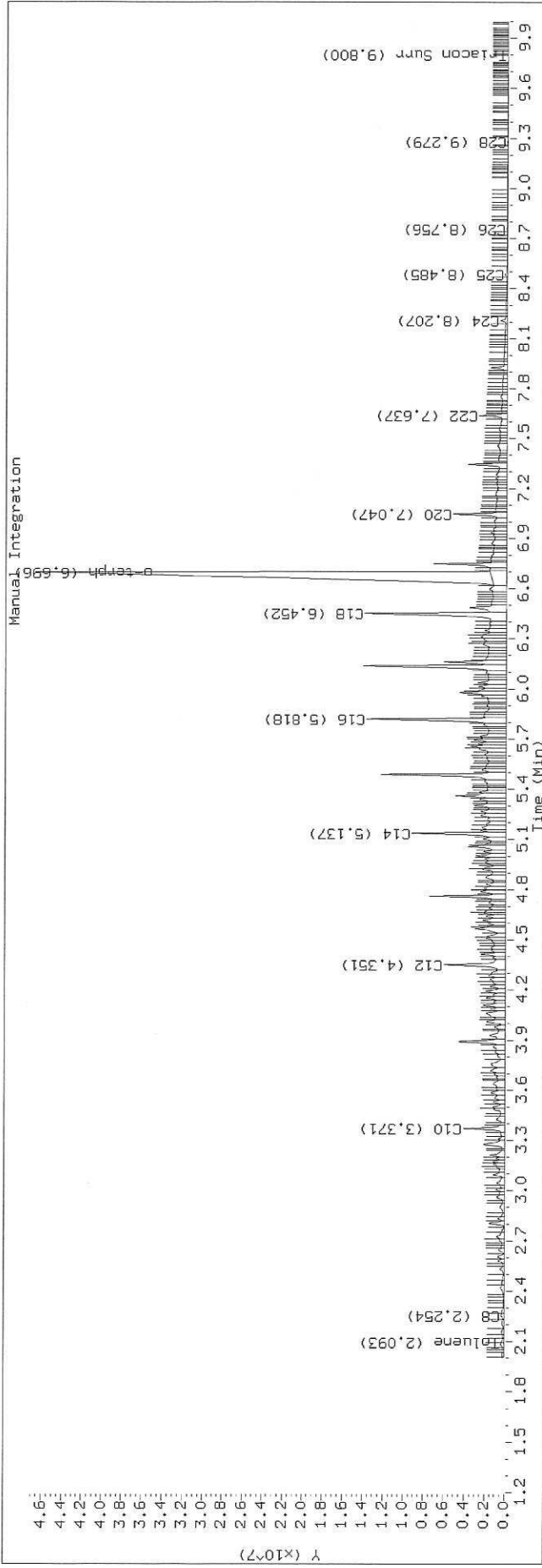
Surrogate	Area	Amount
o-Terphenyl	94404433	461.2 M
Triacotane	892	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

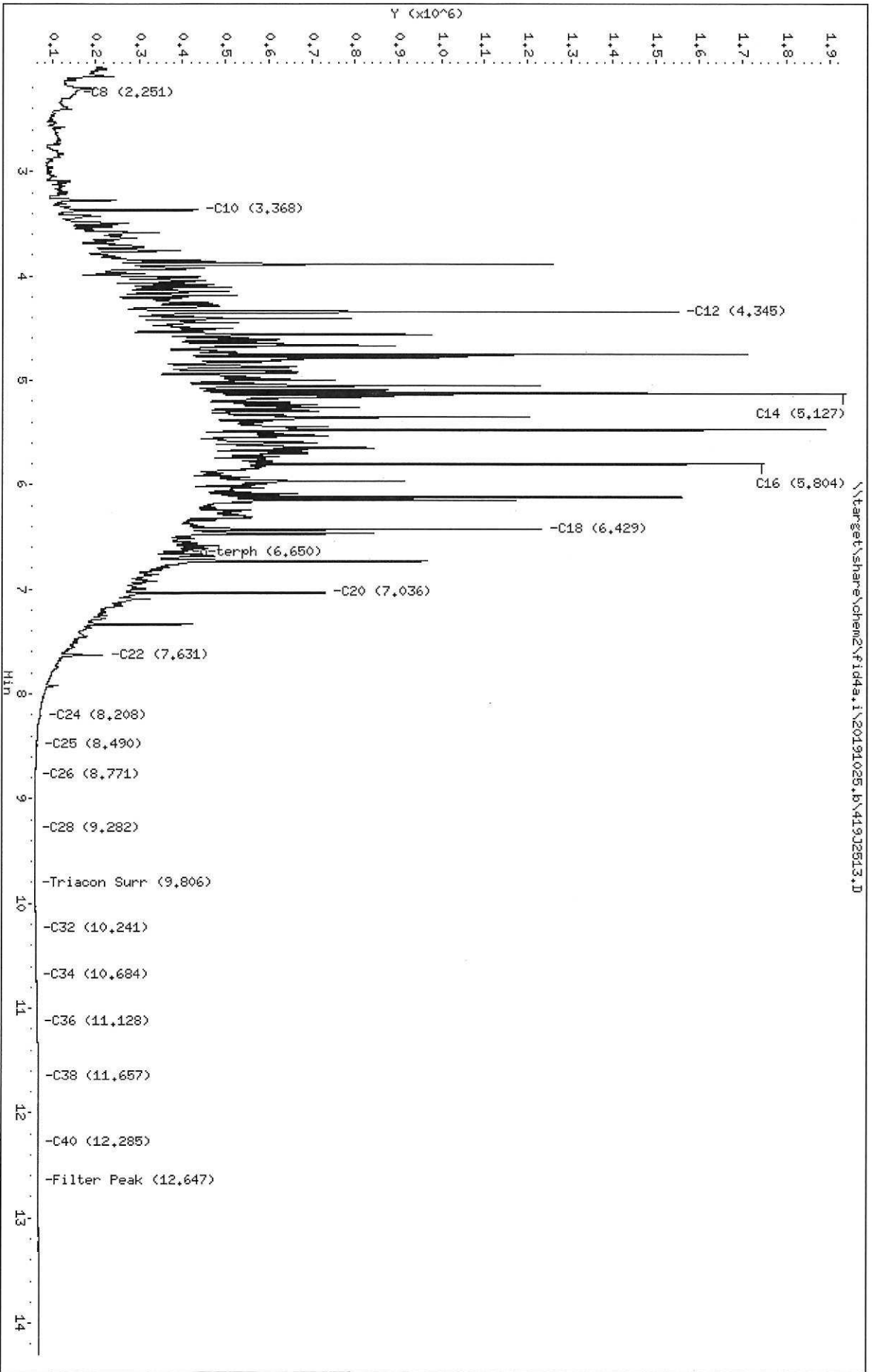
Datafile: FID4A, 20191025.b/419J2512.D SHJ0406-CAL6





Data File: \\target\share\chem2\fid4a.1\20191025.b\419J2513.D
Date: 25-OCT-2019 15:52
Client ID:
Sample Info: SHJ0406-SCV1
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTD/SH/MTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2513.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV1
Client ID:
Injection: 25-OCT-2019 15:52
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.251	-0.011	94961	147864	WATPHD	(C12-C24)	81454017	511.2
C10	3.368	-0.005	379319	401979	WATPHM	(C24-C38)	639731	4.8
C12	4.345	-0.002	1496096	1990616	AK102	(C10-C25)	97704414	499.8
C14	5.127	-0.002	1881566	1510979	AK103	(C25-C36)	332991	3.3
C16	5.804	-0.003	1693335	1468242	OR.DIES	(C10-C28)	97755450	498.8
C18	6.429	-0.006	1178327	1173671				
C20	7.036	-0.007	676475	771884				
C22	7.631	-0.008	162529	245982				
C24	8.208	-0.007	16269	46701				
C25	8.490	-0.003	4835	8168				
C26	8.771	0.006	1378	465				
C28	9.282	-0.003	218	122				
C32	10.241	-0.001	2076	410				
C34	10.684	0.003	4334	2137				
Filter Peak	12.647	-0.003	10515	4189	CREOSOT	(C12-C22)	80554511	20650.3
C36	11.128	-0.001	6869	2744				
C38	11.657	0.008	8764	3056				
C40	12.285	-0.004	9988	4995				
o-terph	6.650	-0.007	347314	350999				
Triacon Surr	9.806	0.003	1146	388	NAS DIES	(C10-C24)	97645351	500.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

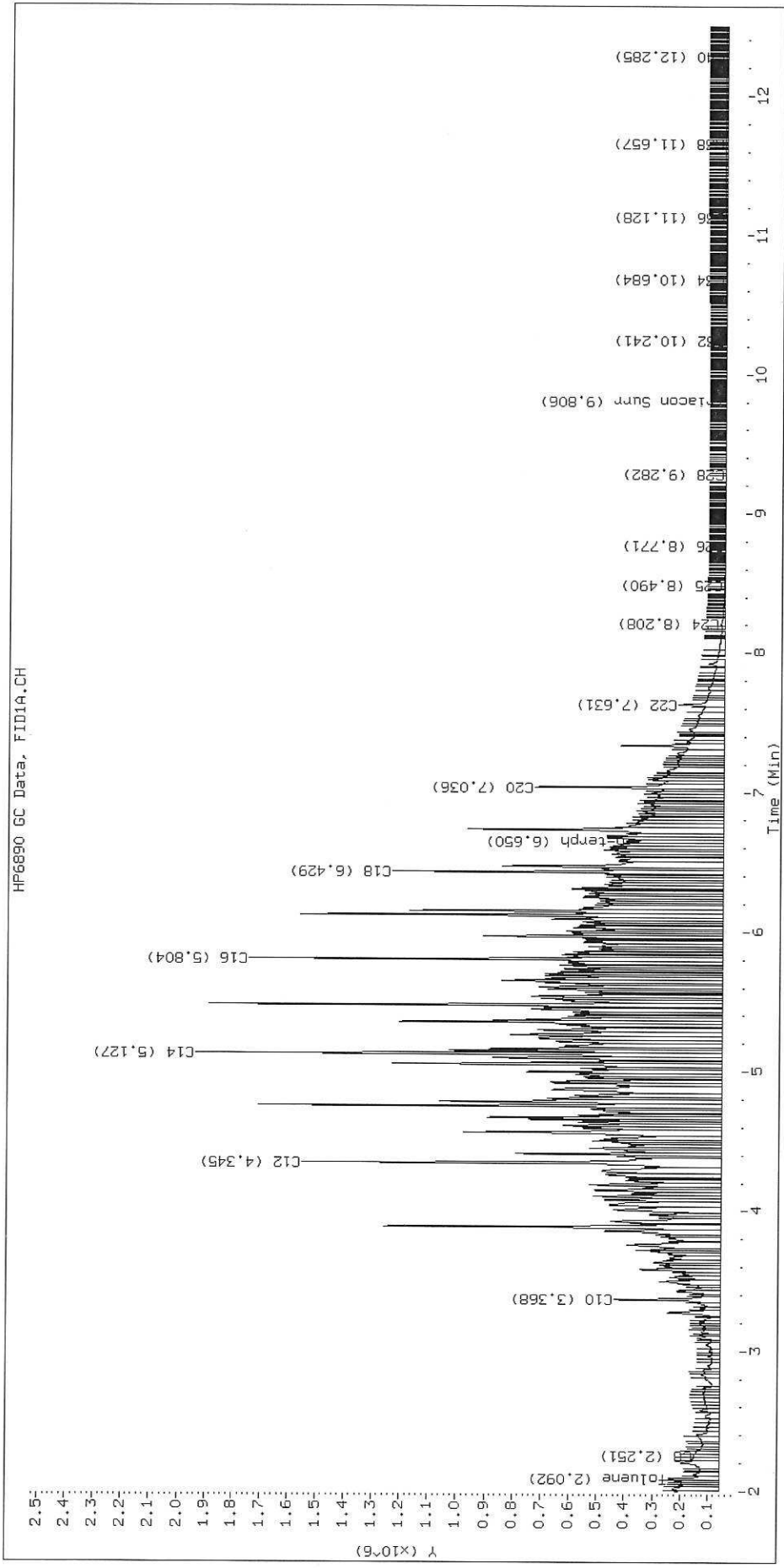
Surrogate	Area	Amount
o-Terphenyl	350999	1.7
Triacotane	388	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2513.D SHJ0406-SCV1

HF6890 GC Data, FID1A.CH



Data File: \\target\share\chem2\fid4a.i\20191025.b\41932514.D

Date : 25-OCT-2019 16:12

Client ID:

Sample Info: SH00406-CAL7

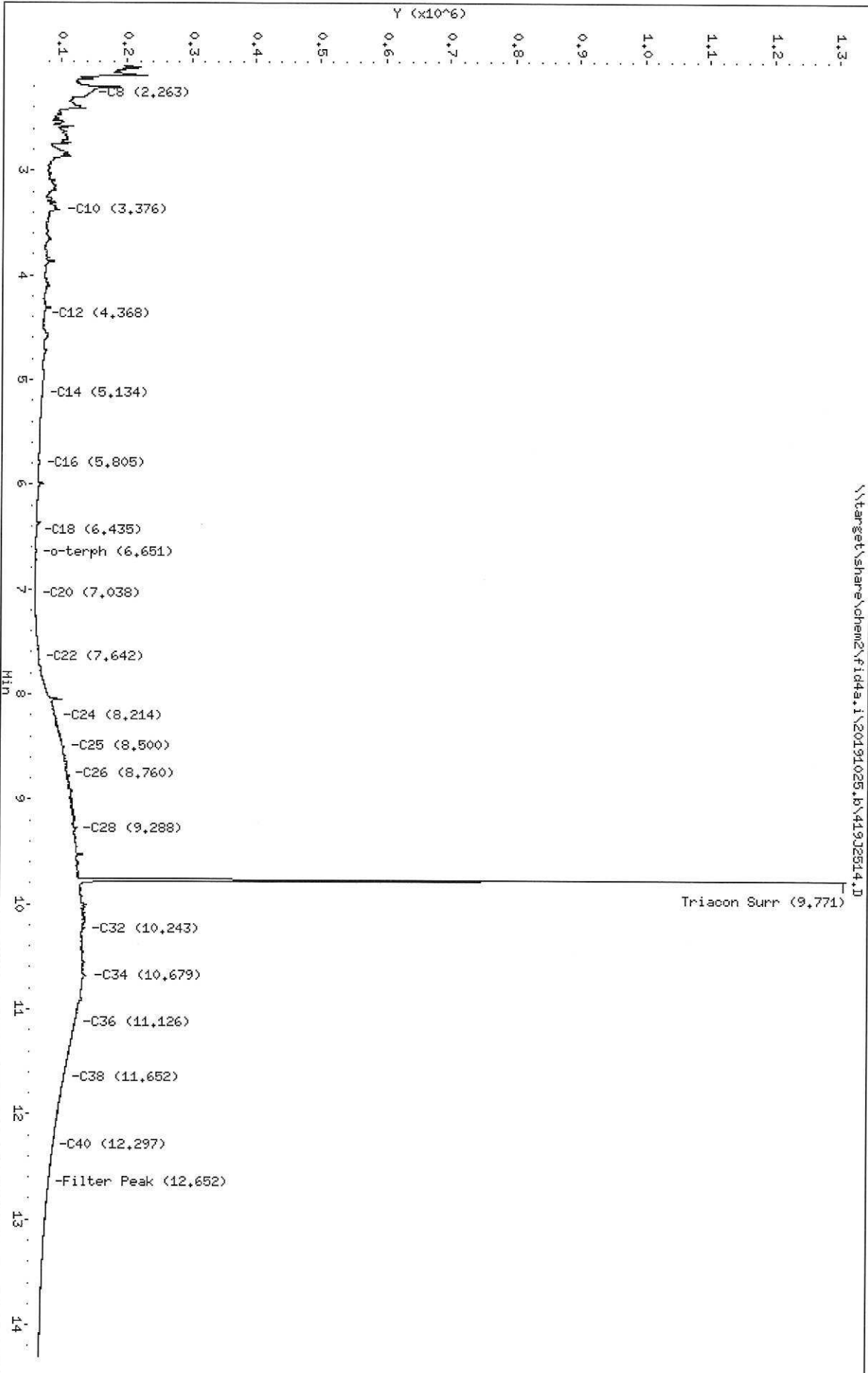
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a.i\20191025.b\41932514.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2514.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL7
Client ID:
Injection: 25-OCT-2019 16:12
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	85024	58523	WATPHD	(C12-C24)	1690231	10.6
C10	3.376	0.003	37002	76813	WATPHM	(C24-C38)	13578464	102.4
C12	4.368	0.021	13222	16848	AK102	(C10-C25)	3173344	16.2
C14	5.134	0.004	9789	3901	AK103	(C25-C36)	11330395	113.3
C16	5.805	-0.002	5337	2891	OR.DIES	(C10-C28)	6258620	31.9
C18	6.435	0.000	1861	887				
C20	7.038	-0.005	431	243				
C22	7.642	0.003	6248	1558				
C24	8.214	-0.001	36357	52641				
C25	8.500	0.007	49017	43098				
C26	8.760	-0.005	55671	27607				
C28	9.288	0.003	67768	33791				
C32	10.243	0.001	81940	56823				
C34	10.679	-0.002	85222	51016				
Filter Peak	12.652	0.002	27566	19236	CREOSOT	(C12-C22)	959454	246.0
C36	11.126	-0.003	69343	27714				
C38	11.652	0.002	52690	33941				
C40	12.297	0.009	34497	15508				
o-terph	6.651	-0.006	941	547				
Triacon Surr	9.771	-0.031	1179904	816812	NAS DIES	(C10-C24)	2749900	14.1

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

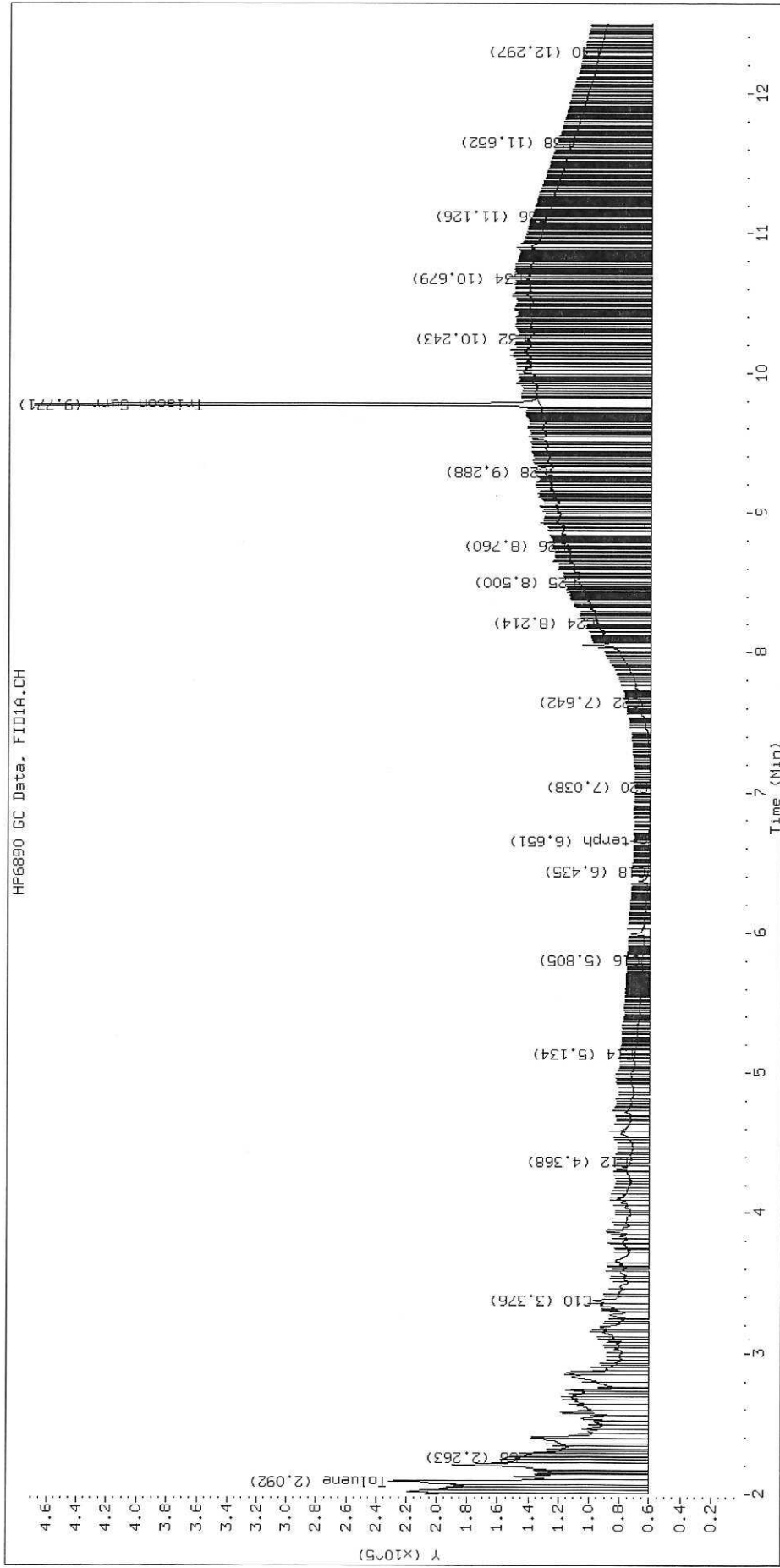
Surrogate	Area	Amount
o-Terphenyl	547	0.0
Triacontane	816812	4.6 M

M Indicates the peak was manually integrated

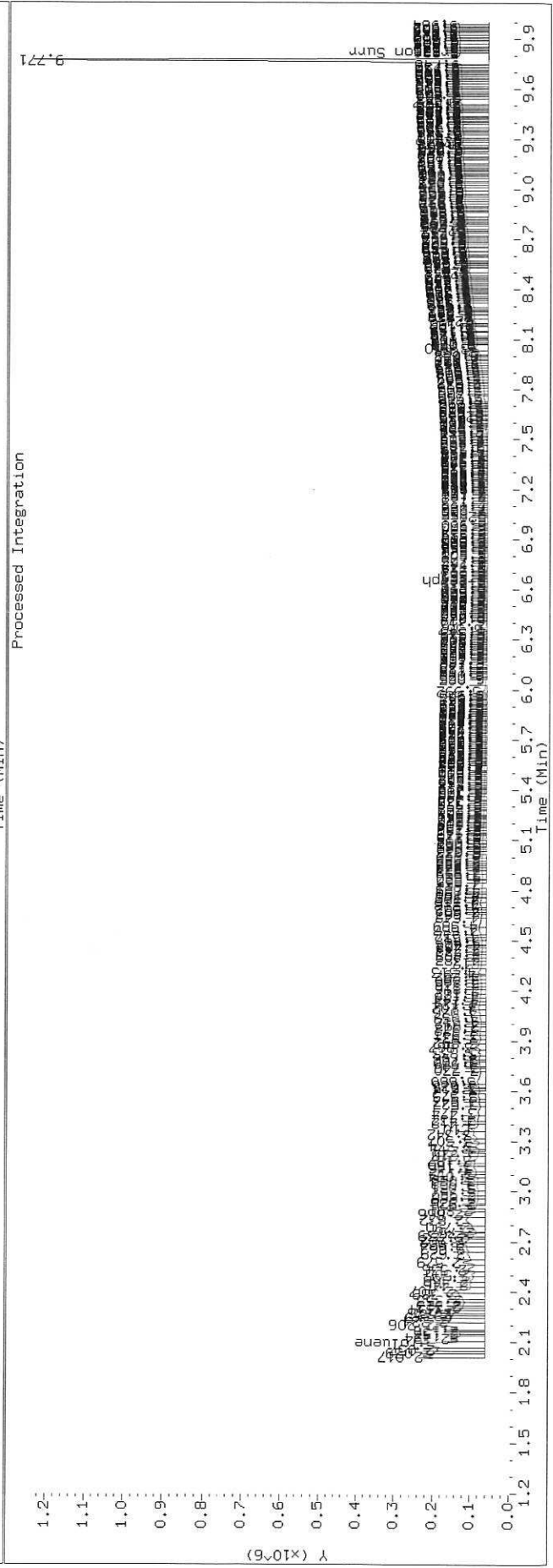
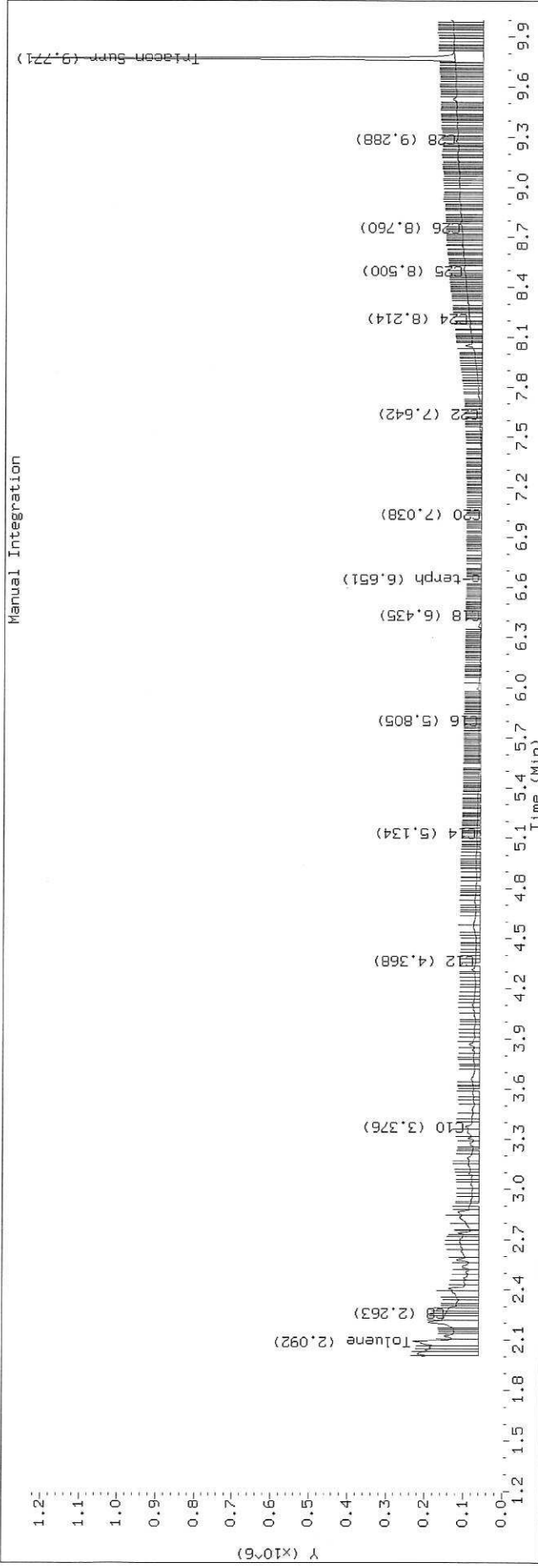
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2514.D SHJ0406-CAL7

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2514.D Injection: 25-OCT-2019 16:12
 Lab ID: SHJ0406-CAL7

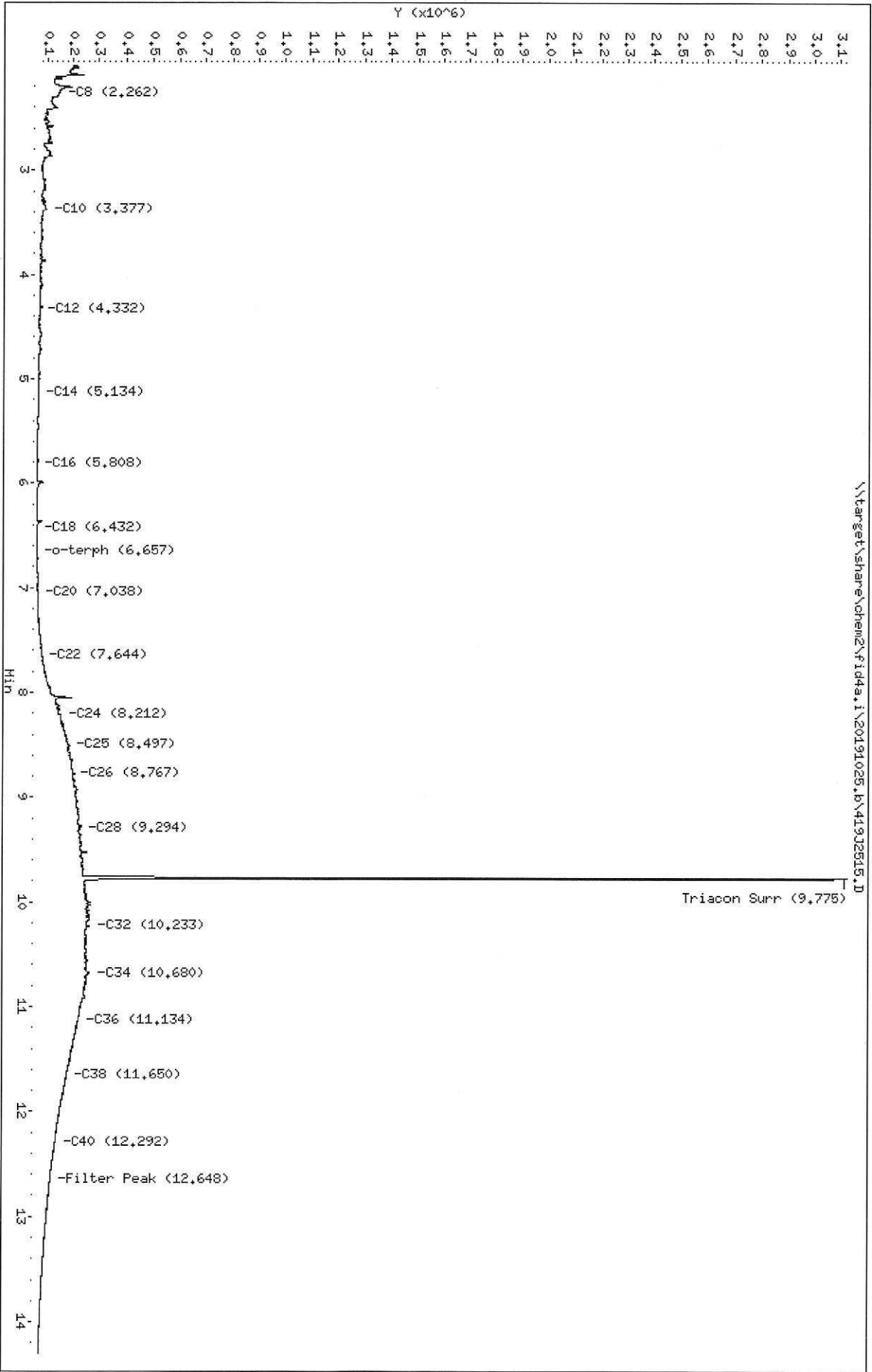


Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2515.D
Date: 25-OCT-2019 16:33
Client ID:
Sample Info: SHJ0406-CAL8

Instrument: fid4a.i

Column phase: RTX-1

Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2515.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL8
Client ID:
Injection: 25-OCT-2019 16:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.262	0.000	86050	63363	WATPHD	(C12-C24)	2977110	18.7
C10	3.377	0.004	37018	79239	WATPHM	(C24-C38)	34653776	261.3
C12	4.332	-0.015	11427	15714	AK102	(C10-C25)	5054179	25.9
C14	5.134	0.004	5154	2057	AK103	(C25-C36)	29175058	291.8
C16	5.808	0.001	2486	1818	OR.DIES	(C10-C28)	13169508	67.2
C18	6.432	-0.002	1168	783				
C20	7.038	-0.005	3772	4551				
C22	7.644	0.005	20883	5211				
C24	8.212	-0.002	97111	92984				
C25	8.497	0.004	127743	100149				
C26	8.767	0.003	144937	36089				
C28	9.294	0.009	174099	155043				
C32	10.233	-0.009	209275	335982				
C34	10.680	-0.001	211521	464774				
Filter Peak	12.648	-0.002	60945	24237	CREOSOT	(C12-C22)	985245	252.6
C36	11.134	0.005	168788	75681				
C38	11.650	0.000	122780	30685				
C40	12.292	0.003	80017	15993				
o-terph	6.657	0.001	951	796				
Triacon Surr	9.775	-0.027	2879377	2052387	NAS DIES	(C10-C24)	3922564	20.1

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

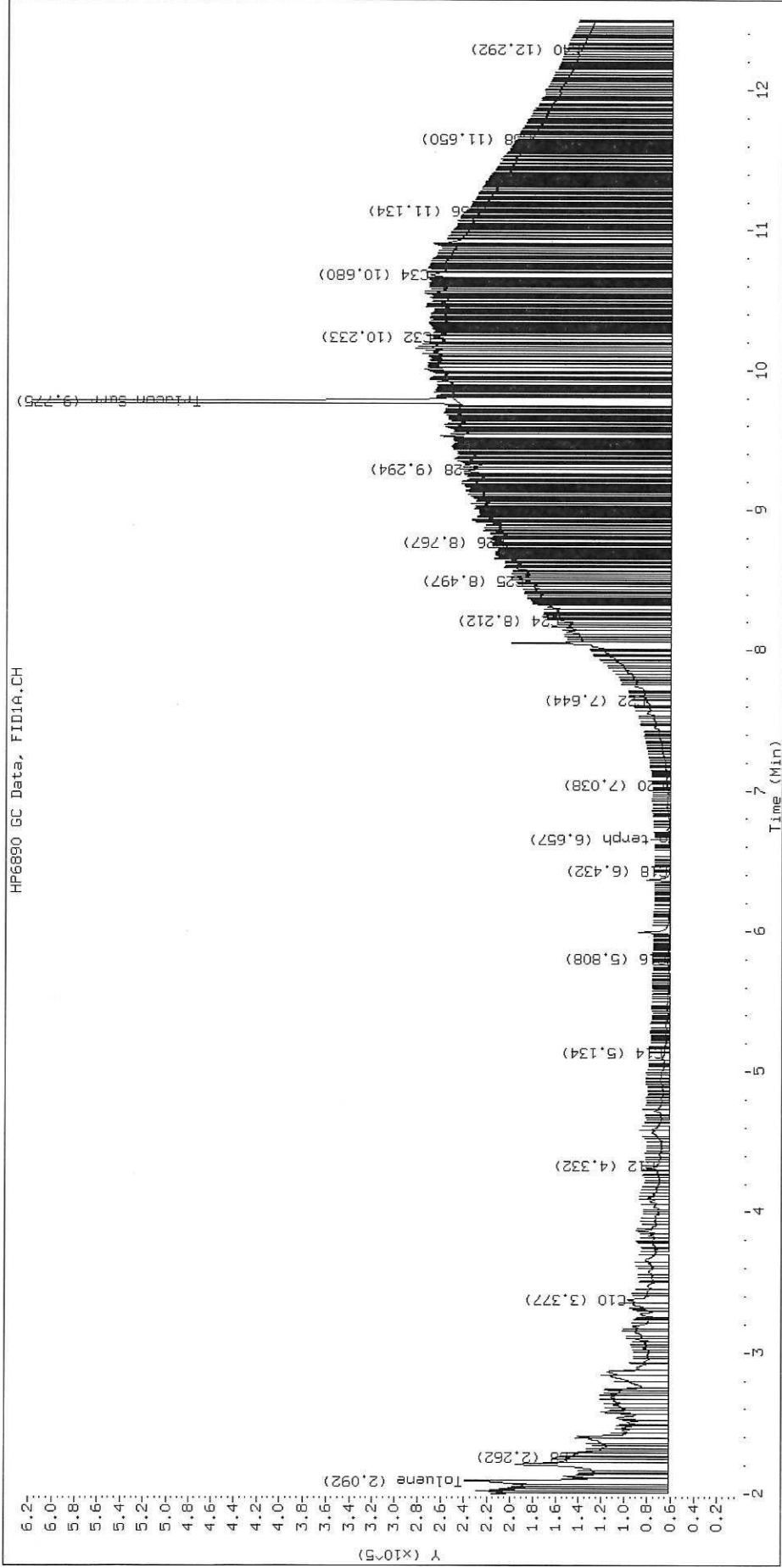
Surrogate	Area	Amount
o-Terphenyl	796	0.0
Triacontane	2052387	11.5 M

M Indicates the peak was manually integrated

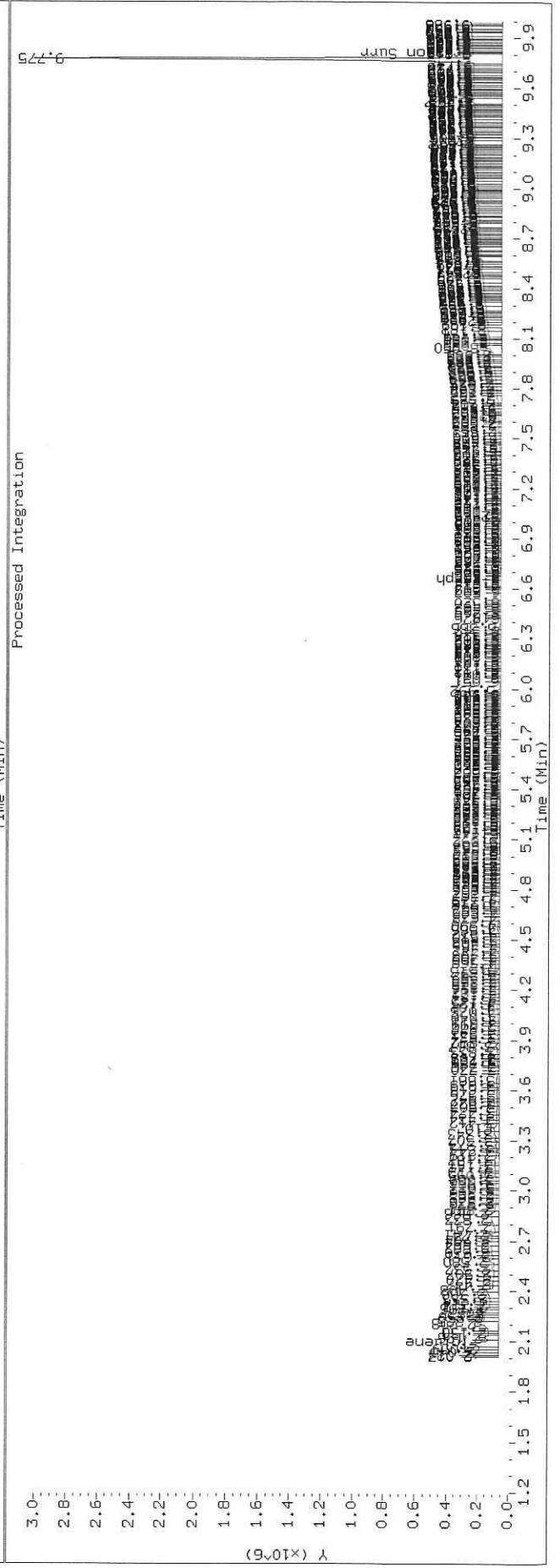
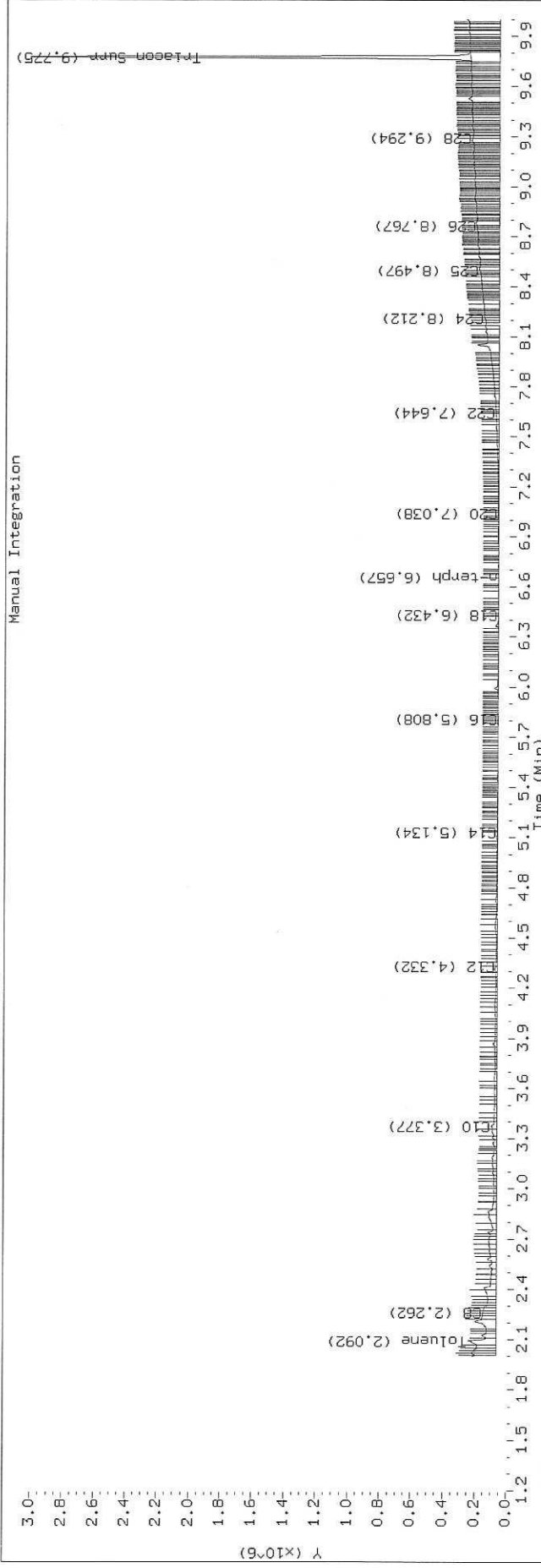
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2515.D SHJ0406-CAL8

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2515.D Injection: 25-OCT-2019 16:33
 Lab ID: SHJ0406-CAL8



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2516.D

Date: 25-OCT-2019 16:53

Client ID:

Sample Info: SHJ0406-CAL9

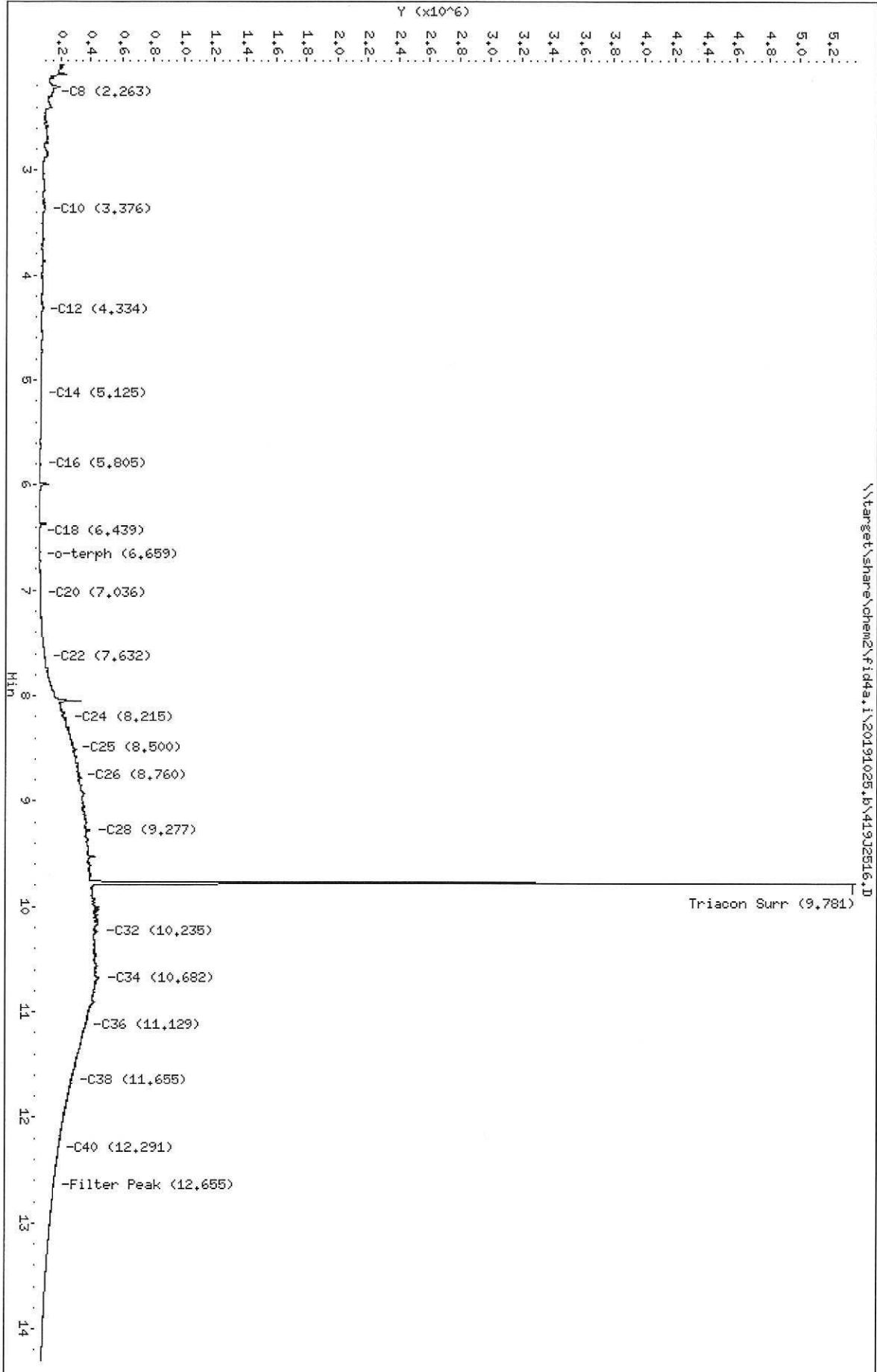
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a.i\20191025.b\419J2516.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2516.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL9
Client ID:
Injection: 25-OCT-2019 16:53
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	85054	58529	WATPHD	(C12-C24)	5661873	35.5
C10	3.376	0.003	38337	74763	WATPHM	(C24-C38)	64308153	484.9
C12	4.334	-0.013	14490	20832	AK102	(C10-C25)	8794999	45.0
C14	5.125	-0.004	9491	6950	AK103	(C25-C36)	54037059	540.5
C16	5.805	-0.002	4594	3625	OR.DIES	(C10-C28)	23868061	121.8
C18	6.439	0.004	1696	642				
C20	7.036	-0.007	7504	9871				
C22	7.632	-0.007	42646	55918				
C24	8.215	0.001	187247	321321				
C25	8.500	0.007	242499	189952				
C26	8.760	-0.005	272862	175979				
C28	9.277	-0.008	344800	562248				
C32	10.235	-0.007	399681	717669				
C34	10.682	0.001	410565	682394				
Filter Peak	12.655	0.004	112959	178875	CREOSOT	(C12-C22)	1771420	454.1
C36	11.129	-0.000	318612	63696				
C38	11.655	0.005	227739	158292				
C40	12.291	0.002	146308	65396				
o-terph	6.659	0.002	1793	1646				
Triacon Surr	9.781	-0.021	4947832	3881047	NAS DIES	(C10-C24)	6718189	34.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

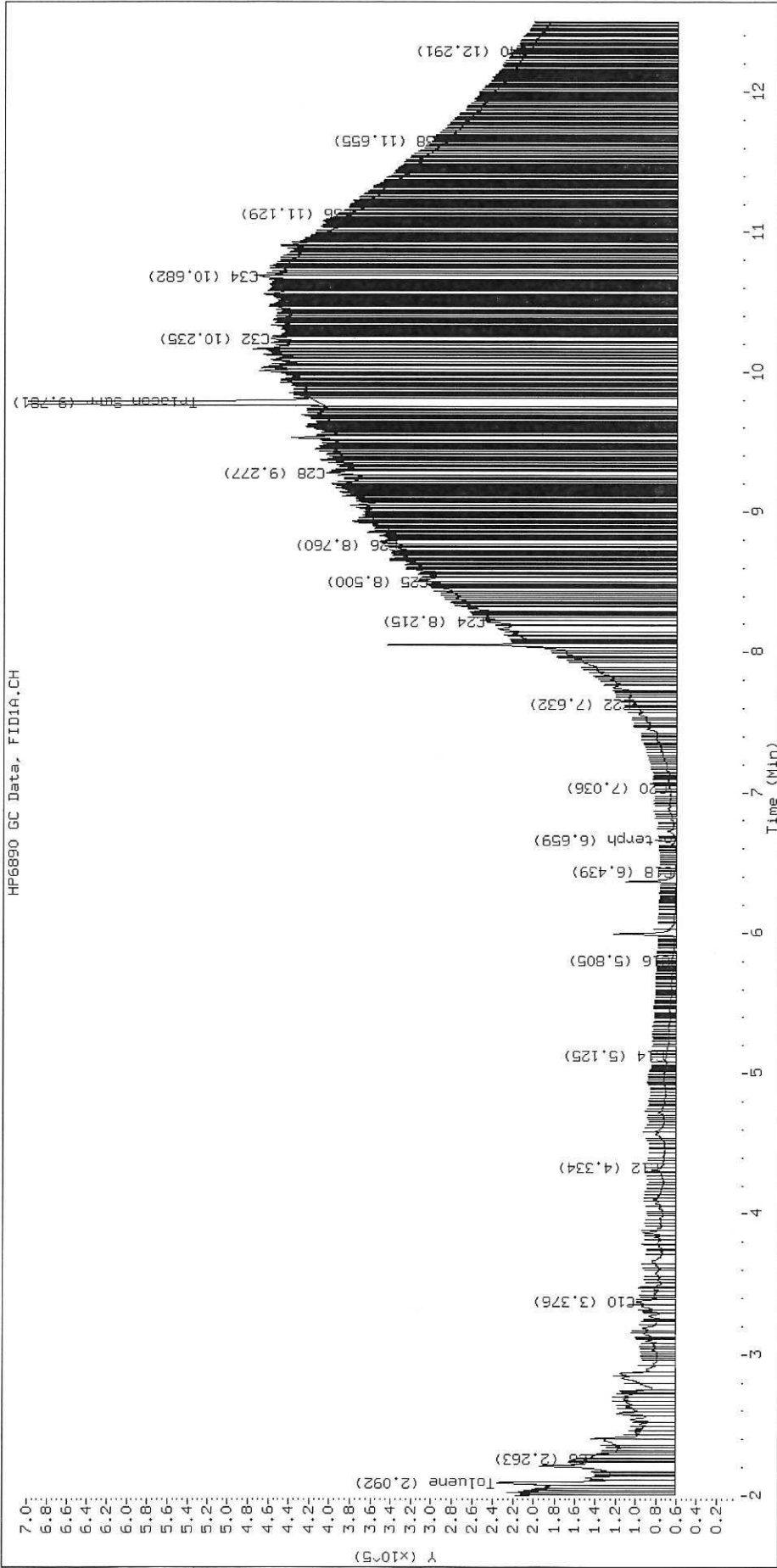
Surrogate	Area	Amount
o-Terphenyl	1646	0.0
Triacontane	3881047	21.8 M

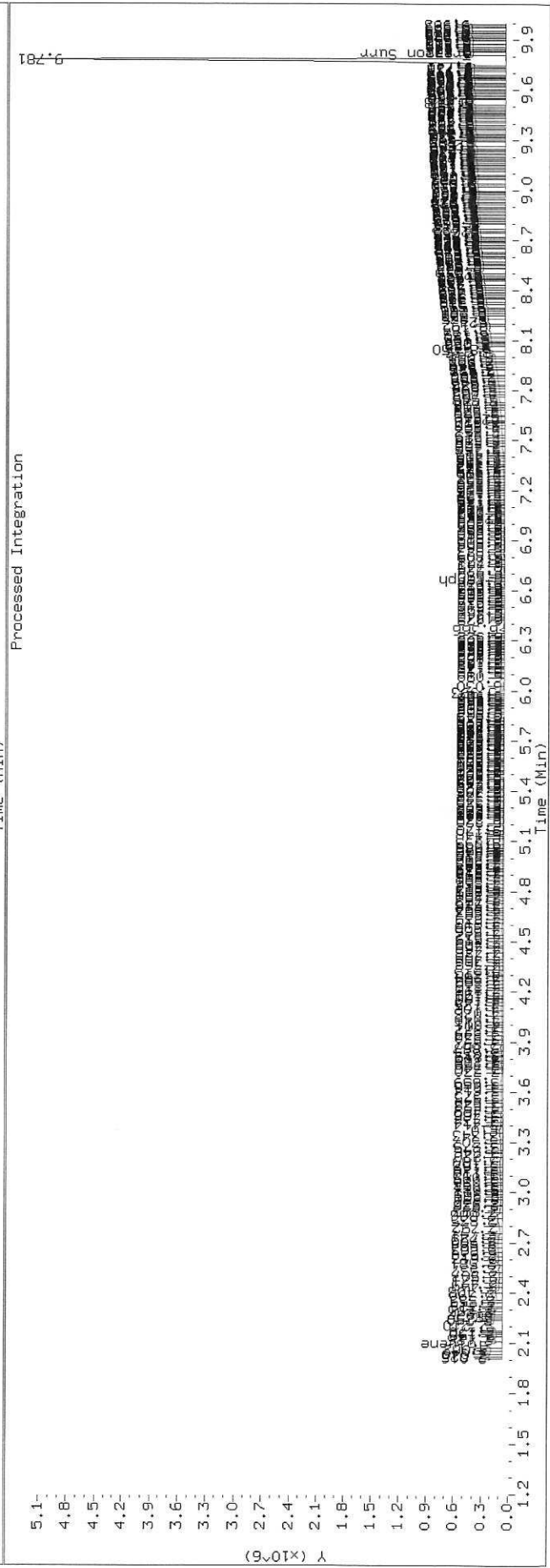
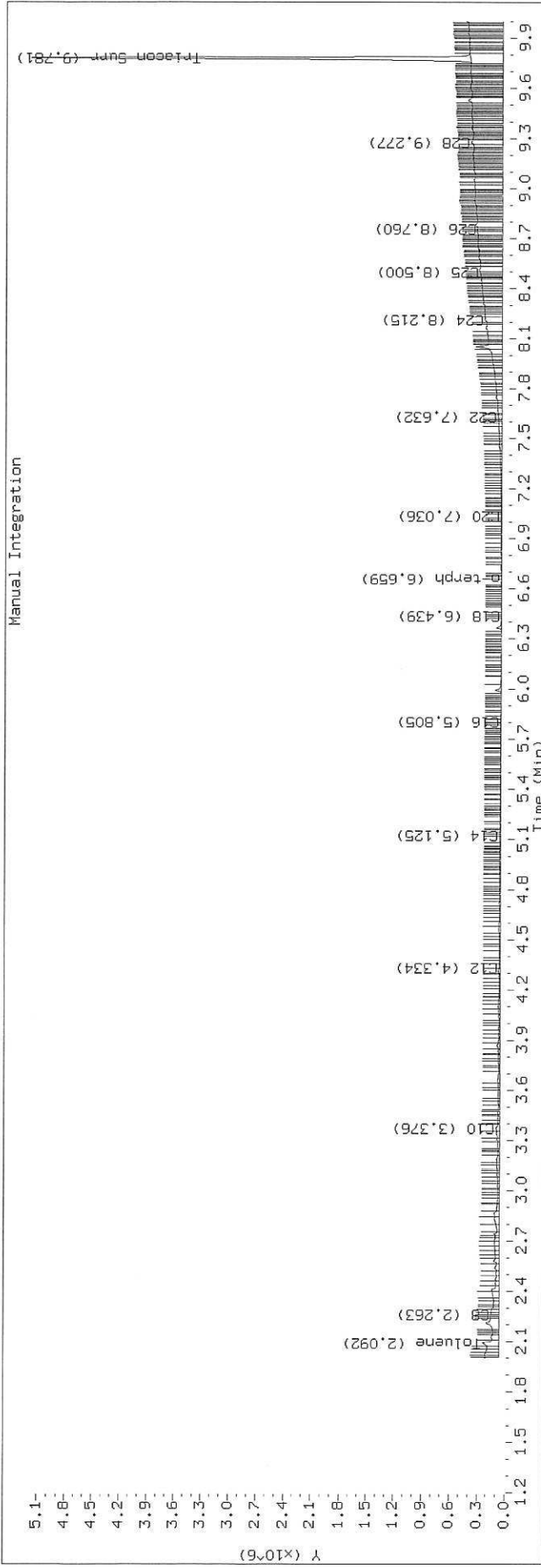
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2516.D SHJ0406-CAL9

HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\Fid4a.I\20191025.b\419J2517.D

Date: 25-OCT-2019 17:13

Client ID:

Sample Info: SHJ0406-CLLA

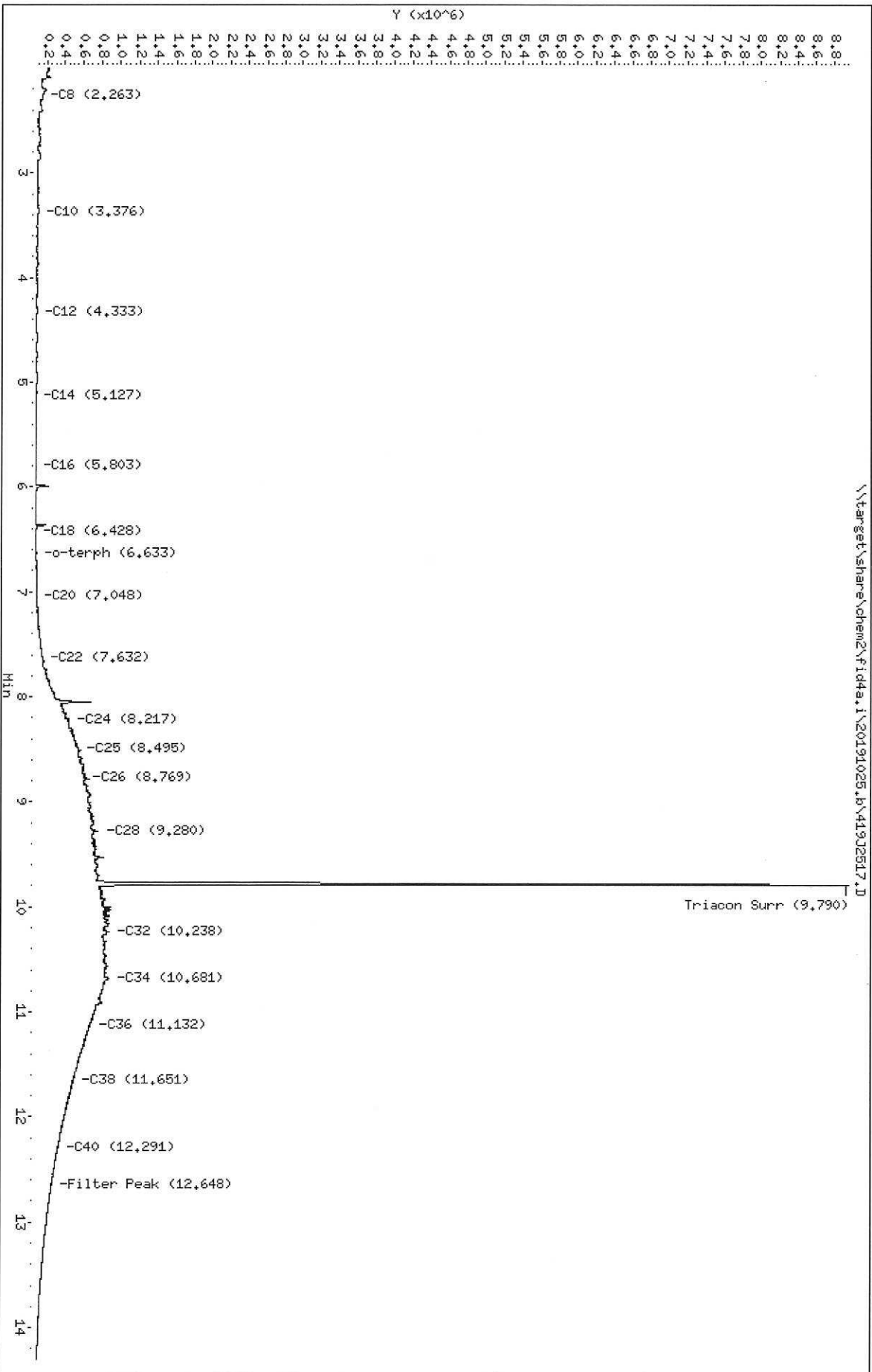
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTG/SH/VTS/JGR

Column diameter: 0.25

\\target\share\chem2\Fid4a.I\20191025.b\419J2517.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2517.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALA
Client ID:
Injection: 25-OCT-2019 17:13
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.263	0.001	78760	49973	WATPHD	(C12-C24)	11050301	69.4
C10	3.376	0.003	33282	53155	WATPHM	(C24-C38)	130458600	983.6
C12	4.333	-0.014	8330	11675	AK102	(C10-C25)	16134883	82.5
C14	5.127	-0.003	6869	8015	AK103	(C25-C36)	110338631	1103.6
C16	5.803	-0.004	4269	6183	OR.DIES	(C10-C28)	47155868	240.6
C18	6.428	-0.006	4035	4694				
C20	7.048	0.005	16630	12336				
C22	7.632	-0.007	93050	108452				
C24	8.217	0.002	386378	321791				
C25	8.495	0.002	491396	292213				
C26	8.769	0.005	557751	166690				
C28	9.280	-0.005	695698	804868				
C32	10.238	-0.005	823126	997439				
C34	10.681	-0.000	821771	761528				
Filter Peak	12.648	-0.002	202612	170825	CREOSOT	(C12-C22)	2854310	731.7
C36	11.132	0.003	625826	249171				
C38	11.651	0.001	444433	177367				
C40	12.291	0.002	276466	164427				
o-terph	6.633	-0.023	11730	15135				
Triacon Surr	9.790	-0.012	8190520	7927188	NAS DIES	(C10-C24)	11670623	59.8

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

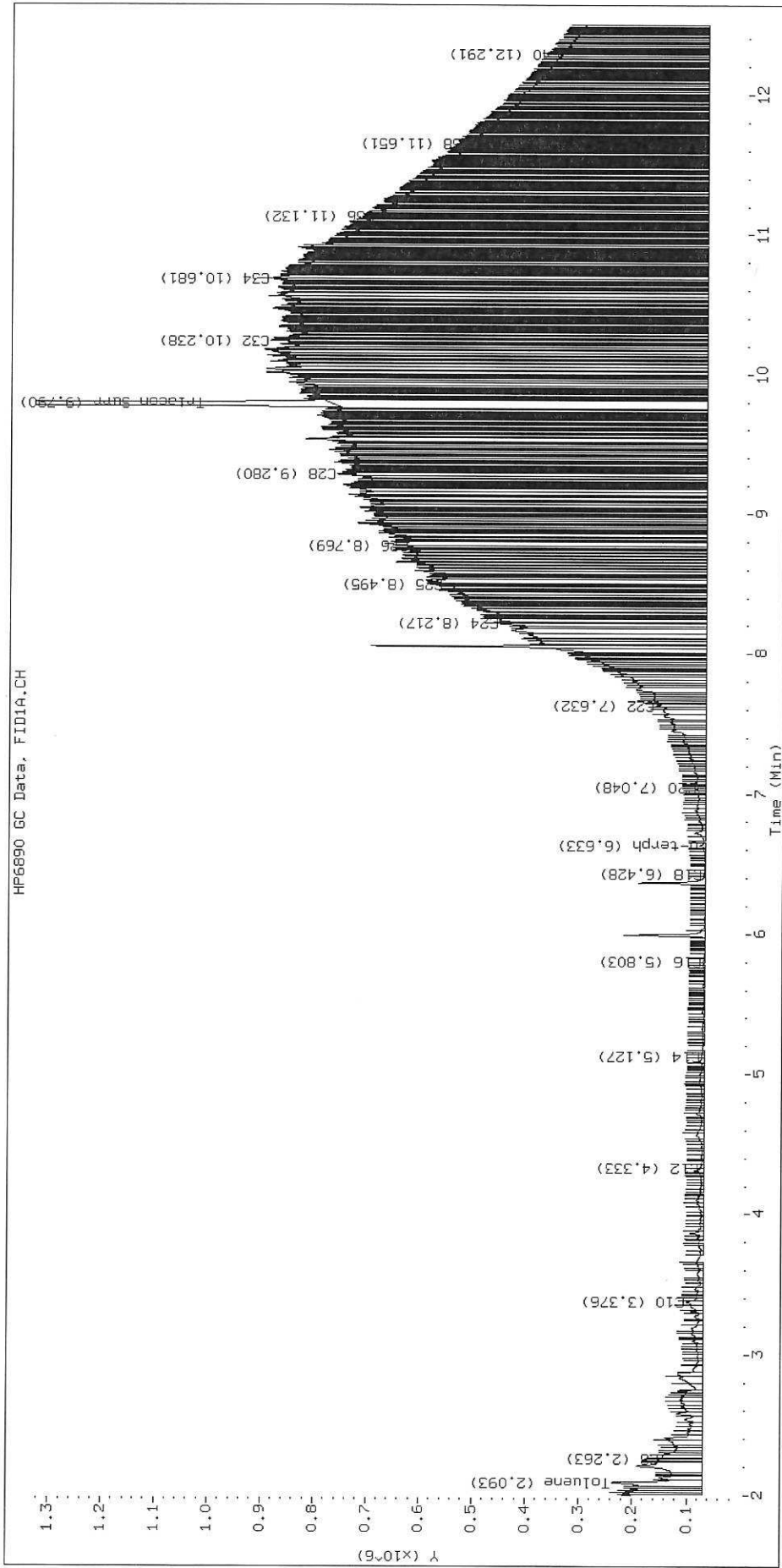
Surrogate	Area	Amount
o-Terphenyl	15135	0.1
Triacontane	7927188	44.5 M

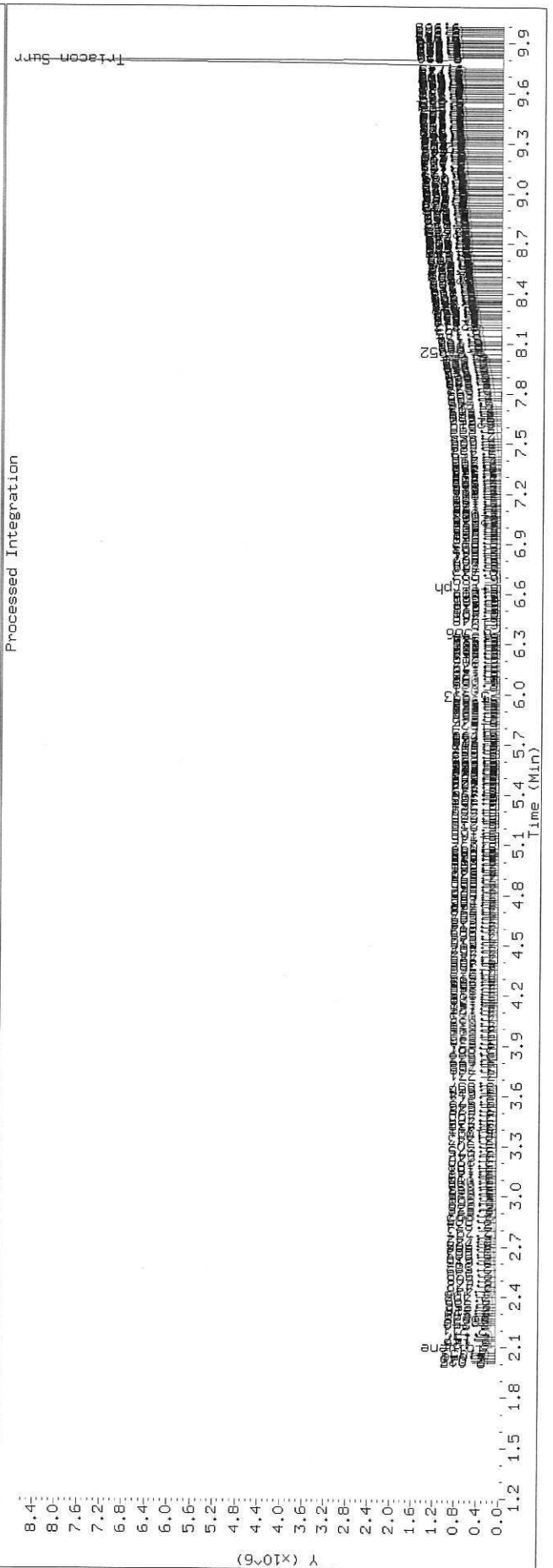
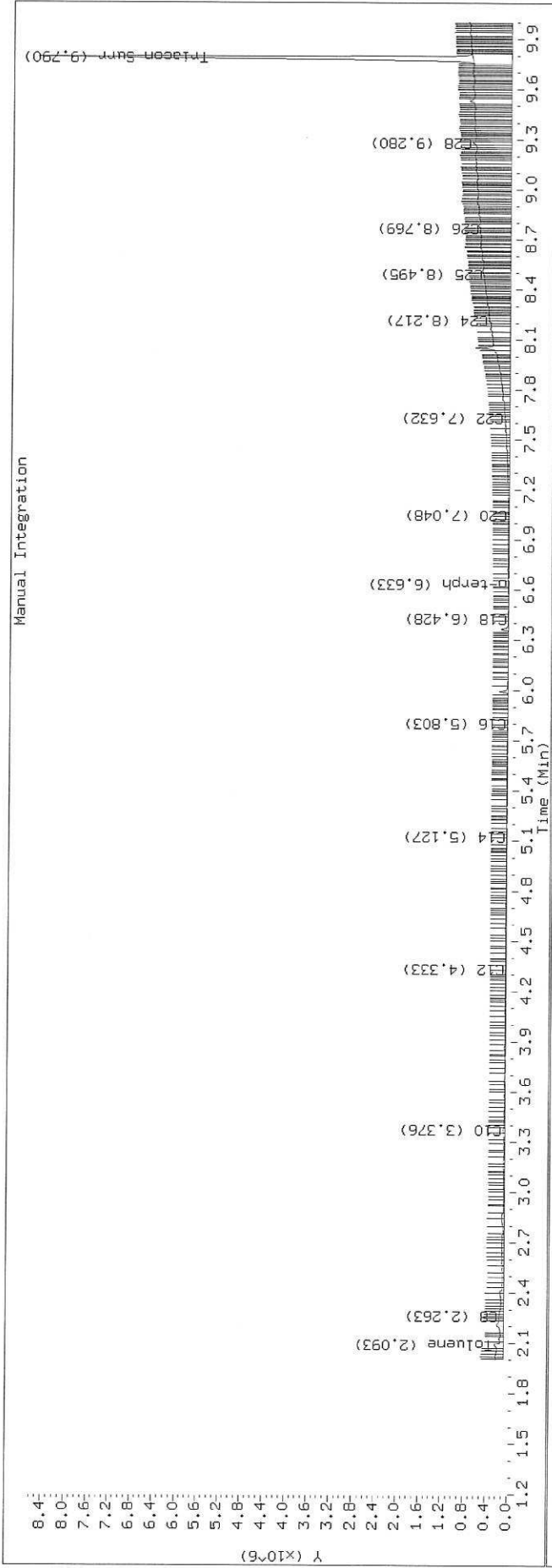
M - Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2517.D SHJ0406-CALA

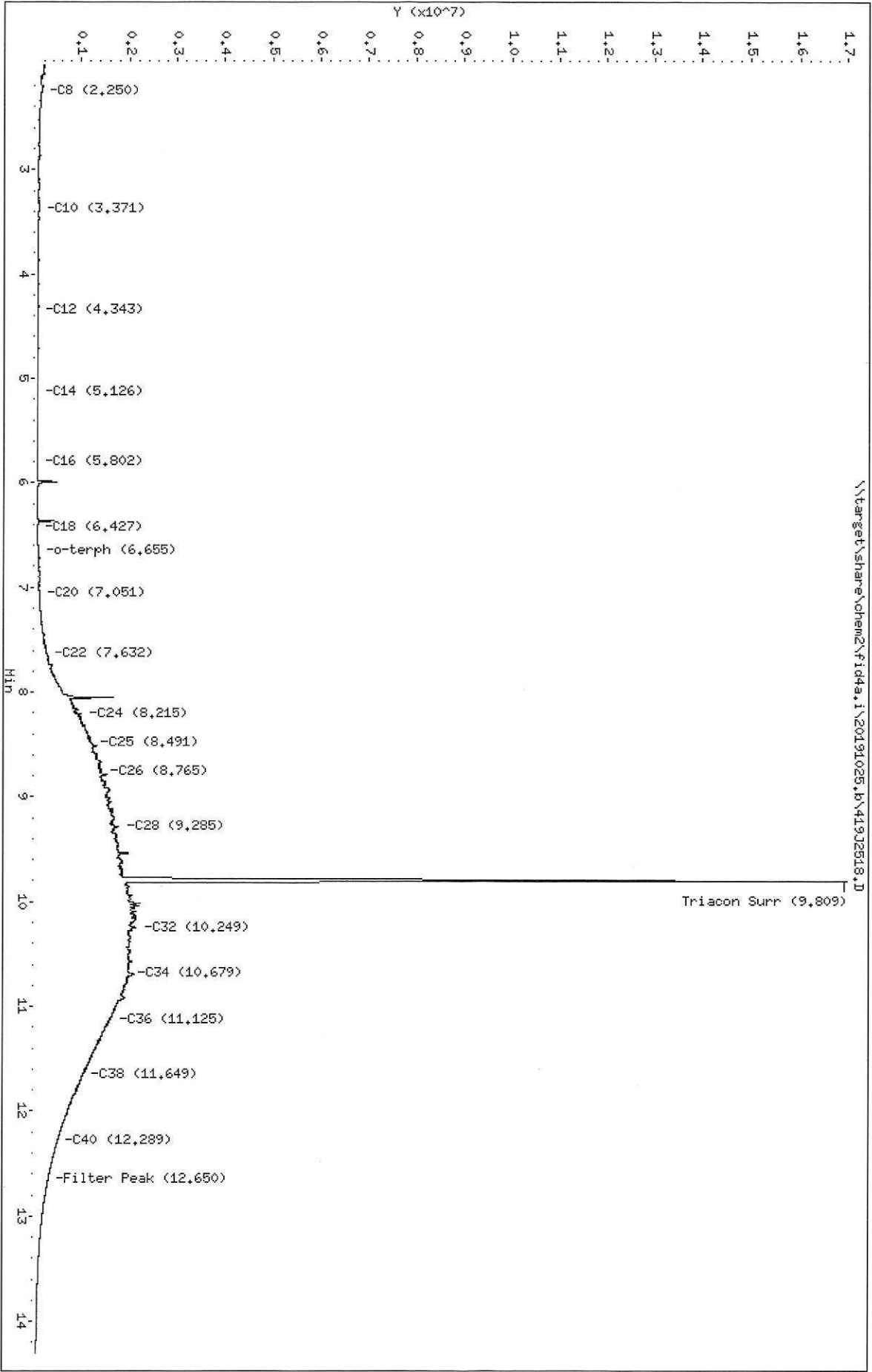
HF6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a.1\20191025.b\419J2518.D
 Date: 25-OCT-2019 17:34
 Client ID:
 Sample Info: SHJ0406-CALB
 Column phase: RTX-1

Instrument: fid4a.1
 Operator: CTD/SH/VTS/JCR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b\419J2518.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALB
Client ID:
Injection: 25-OCT-2019 17:34
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.250	-0.012	77817	116710	WATPHD	(C12-C24)	27251753	171.0
C10	3.371	-0.002	31760	39598	WATPHM	(C24-C38)	331873325	2502.2
C12	4.343	-0.004	6520	6156	AK102	(C10-C25)	38872526	198.8
C14	5.126	-0.004	7874	9340	AK103	(C25-C36)	281447225	2815.1
C16	5.802	-0.005	7984	9771	OR.DIES	(C10-C28)	115893490	591.3
C18	6.427	-0.007	14076	14289				
C20	7.051	0.008	46537	34495				
C22	7.632	-0.007	235207	295349				
C24	8.215	0.000	955047	900361				
C25	8.491	-0.002	1184503	236628				
C26	8.765	0.000	1401067	1730192				
C28	9.285	-0.001	1743563	2775911				
C32	10.249	0.007	2106415	3055227				
C34	10.679	-0.002	1974576	1267121				
Filter Peak	12.650	-0.001	278159	124338	CREOSOT	(C12-C22)	6708937	1719.8
C36	11.125	-0.004	1581807	1021345				
C38	11.649	-0.001	1027941	256759				
C40	12.289	0.000	486929	193205				
o-terph	6.655	-0.002	18811	15731				
Triacon Surr	9.809	0.007	15056726	20120024	NAS DIES	(C10-C24)	27786026	142.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

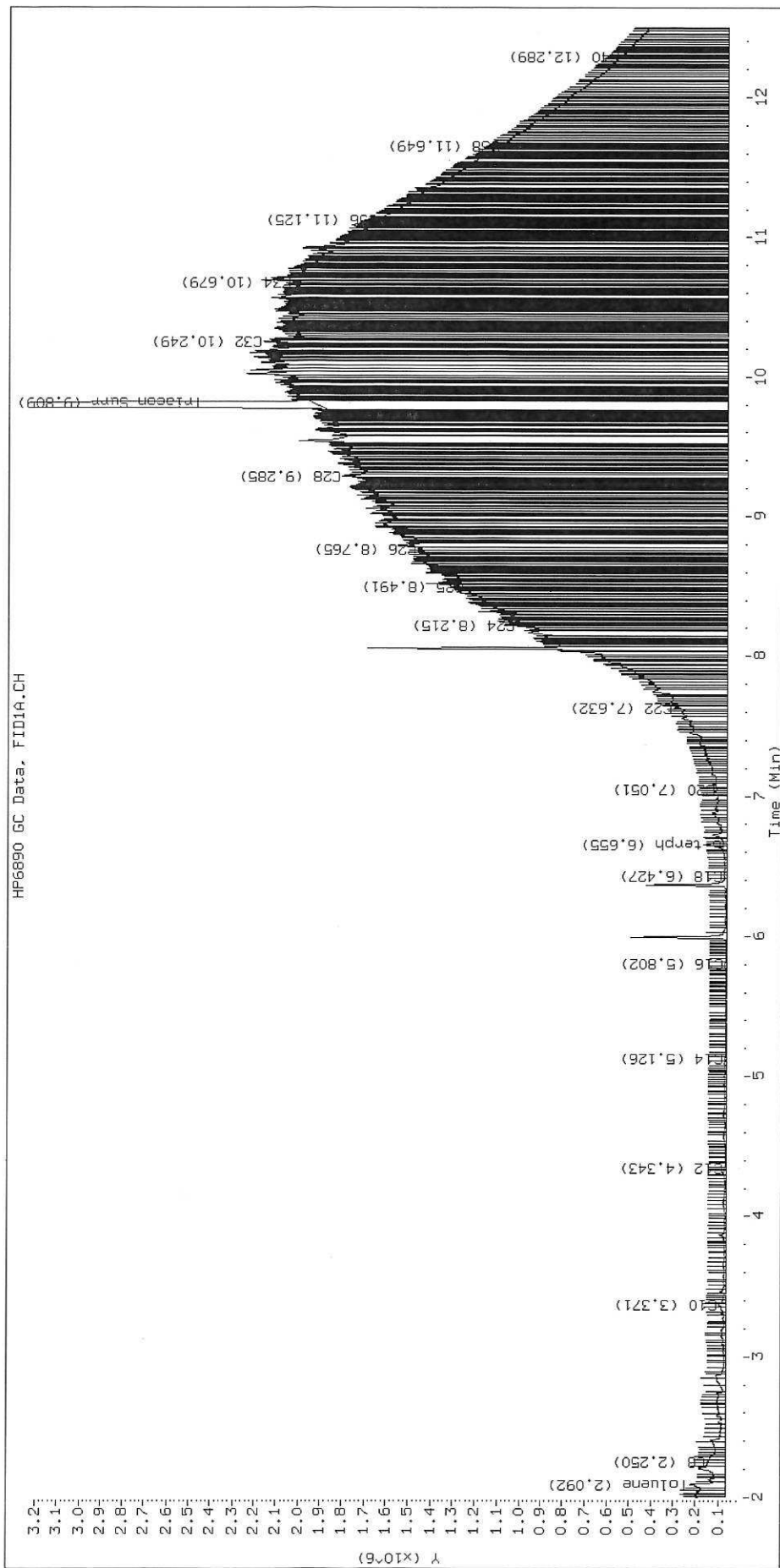
Surrogate	Area	Amount
o-Terphenyl	15731	0.1
Triacontane	20120024	113.0 M

M Indicates the peak was manually integrated

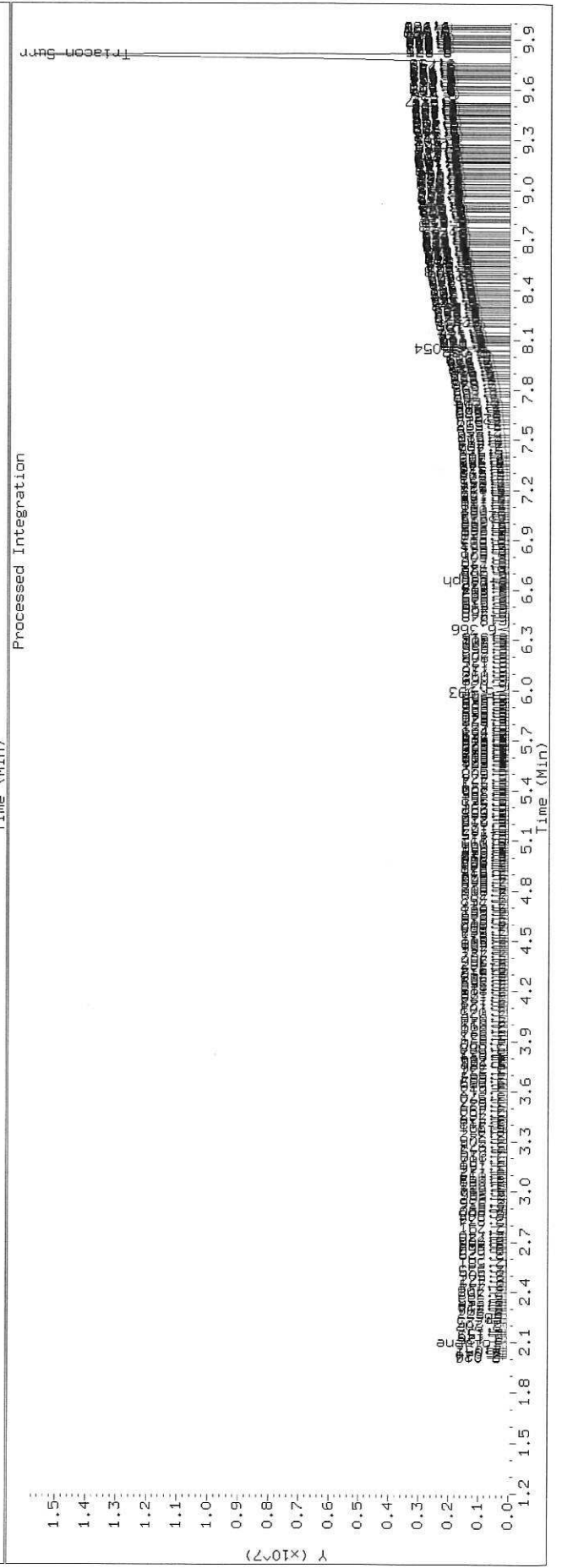
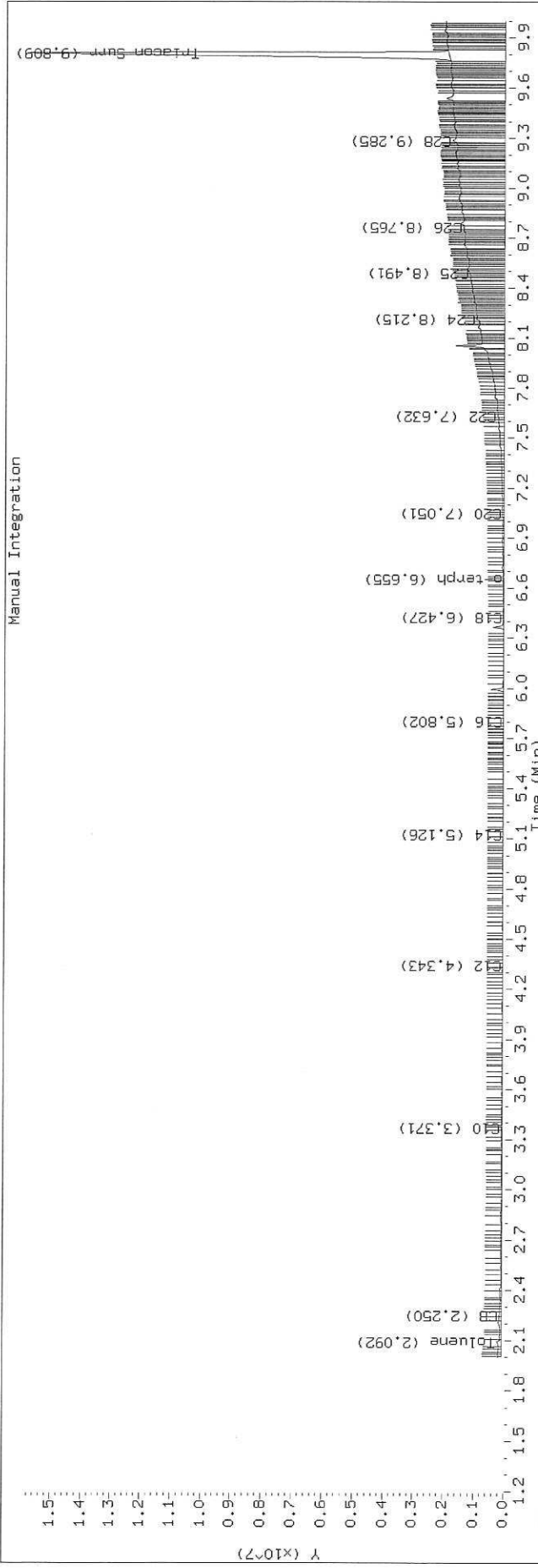
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2518.D SHJ0406-CALB

HP6890 GC Data, FID1A.CH



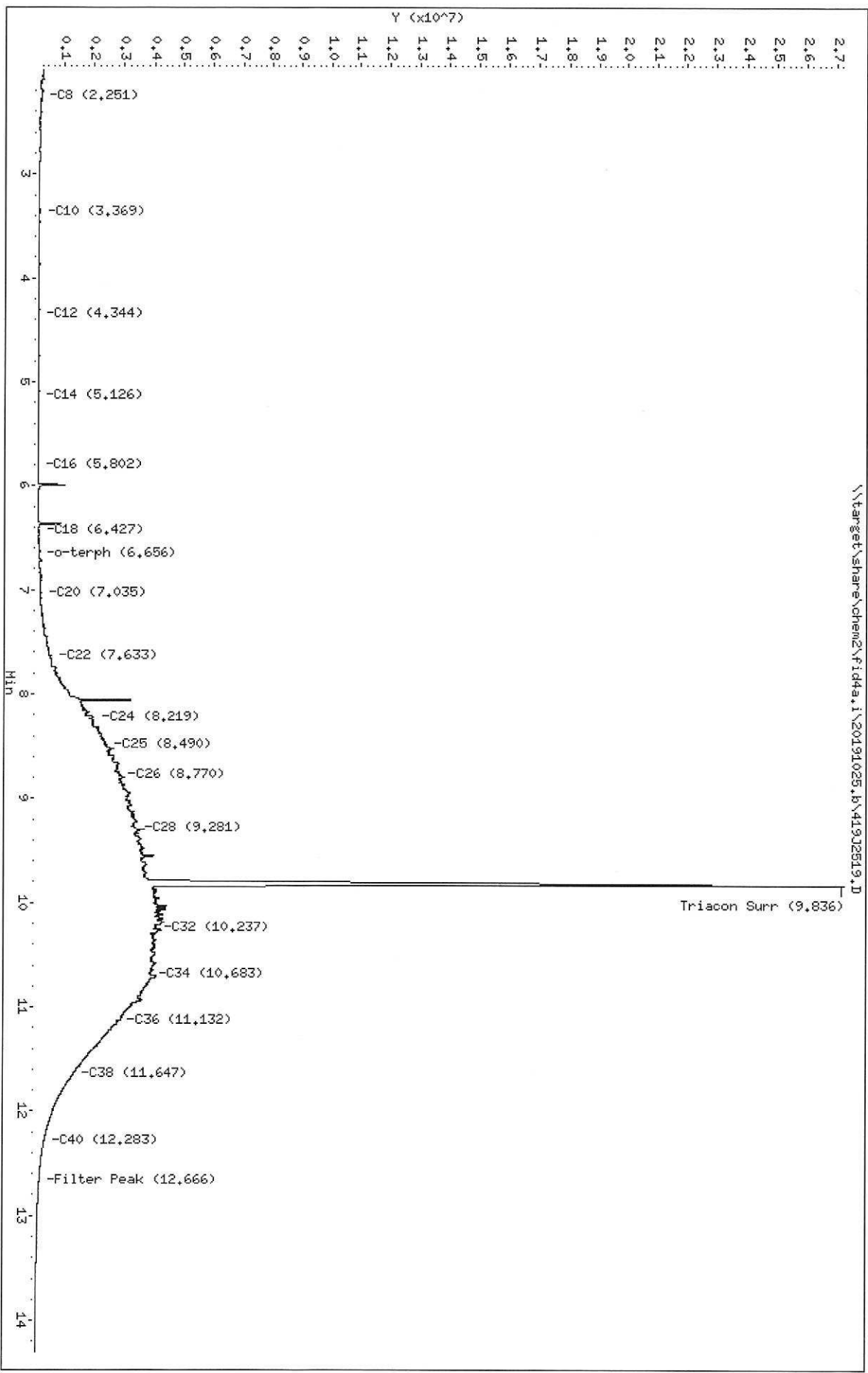
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 Lab ID: SHJ0406-CALB



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2519.D
Date: 25-OCT-2019 17:54
Client ID:
Sample Info: SHJ0406-CALC

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTD/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b\419J2519.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALC
Client ID:
Injection: 25-OCT-2019 17:54
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.251	-0.011	83410	131526	WATPHD	(C12-C24)	54951988	344.9
C10	3.369	-0.004	40067	53627	WATPHM	(C24-C38)	647842842	4884.5
C12	4.344	-0.003	8504	8688	AK102	(C10-C25)	79702569	407.7
C14	5.126	-0.004	19567	26129	AK103	(C25-C36)	565644605	5657.8
C16	5.802	-0.006	21777	24178	OR.DIES	(C10-C28)	235116720	1199.6
C18	6.427	-0.008	35077	33036				
C20	7.035	-0.008	119620	119856				
C22	7.633	-0.006	481948	602675				
C24	8.219	0.004	1952483	1661789				
C25	8.490	-0.003	2383743	592688				
C26	8.770	0.005	2837167	1694204				
C28	9.281	-0.005	3377335	3333438				
C32	10.237	-0.006	4076731	3428537				
C34	10.683	0.002	3869795	1544856				
Filter Peak	12.666	0.015	116179	102746	CREOSOT	(C12-C22)	14260161	3655.6
C36	11.132	0.003	2846055	707761				
C38	11.647	-0.002	1313112	715795				
C40	12.283	-0.006	302346	281489				
o-terph	6.656	-0.001	43010	66343				
Triacon Surr	9.836	0.034	23293566	39698048	NAS DIES	(C10-C24)	55485985	284.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

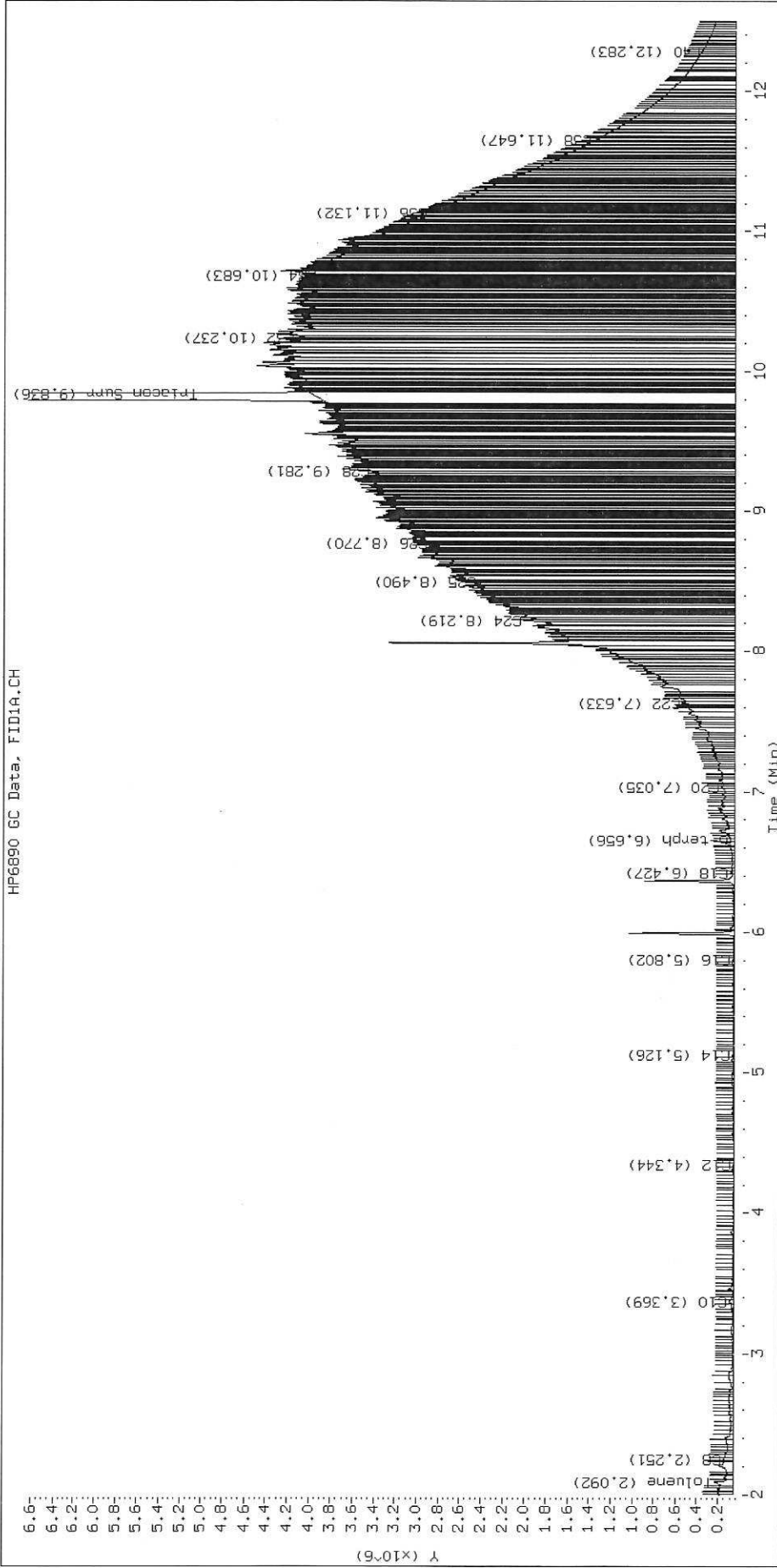
Surrogate	Area	Amount
o-Terphenyl	66343	0.3
Triacotane	39698048	223.0 M

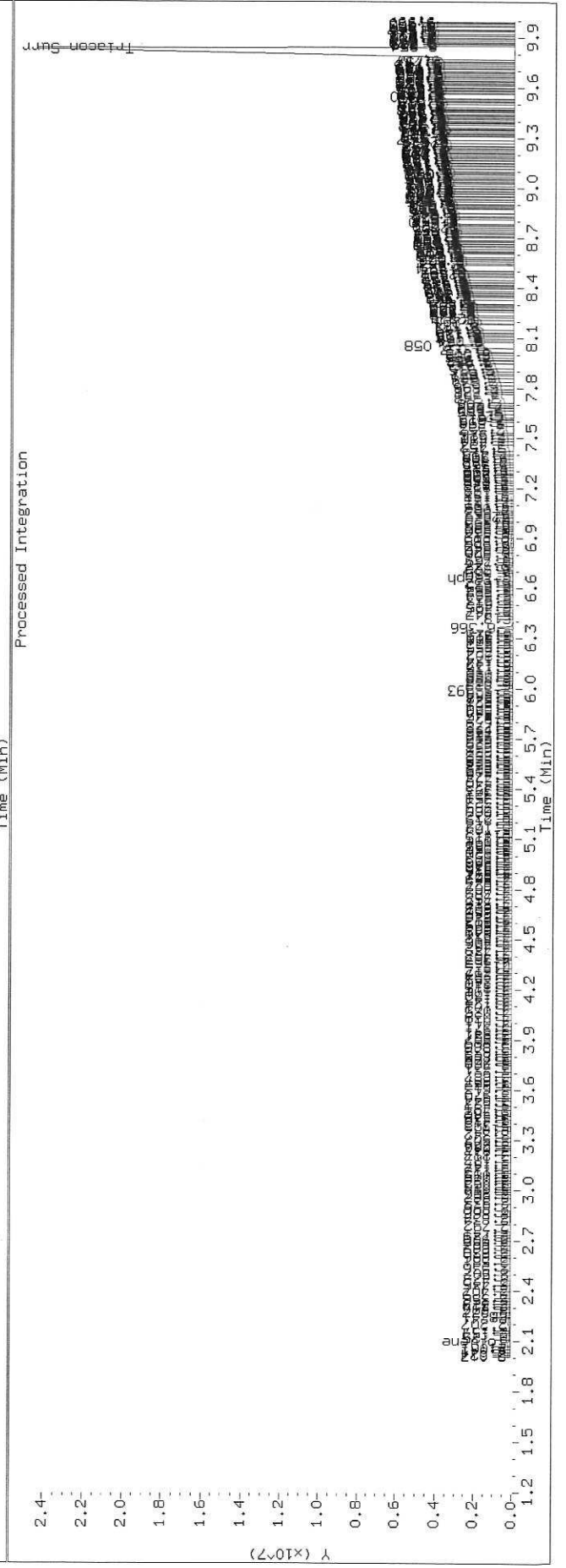
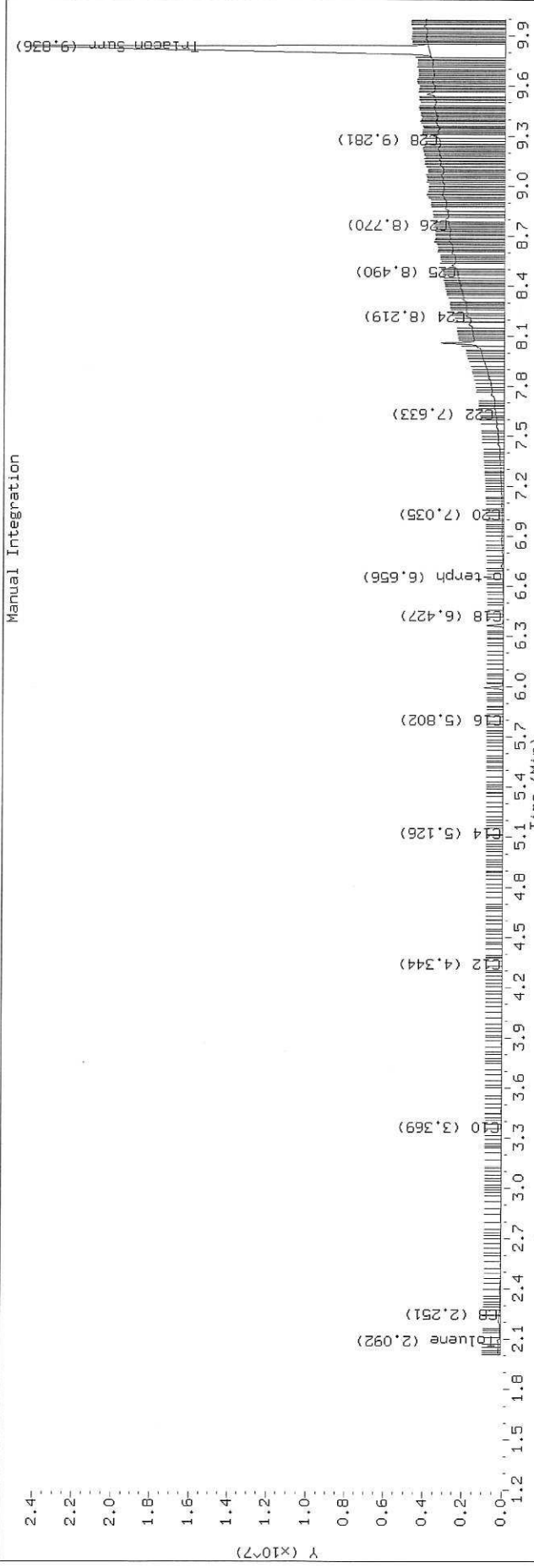
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2519.D SHJ0406-CALC

HP6890 GC Data, FID1A.CH





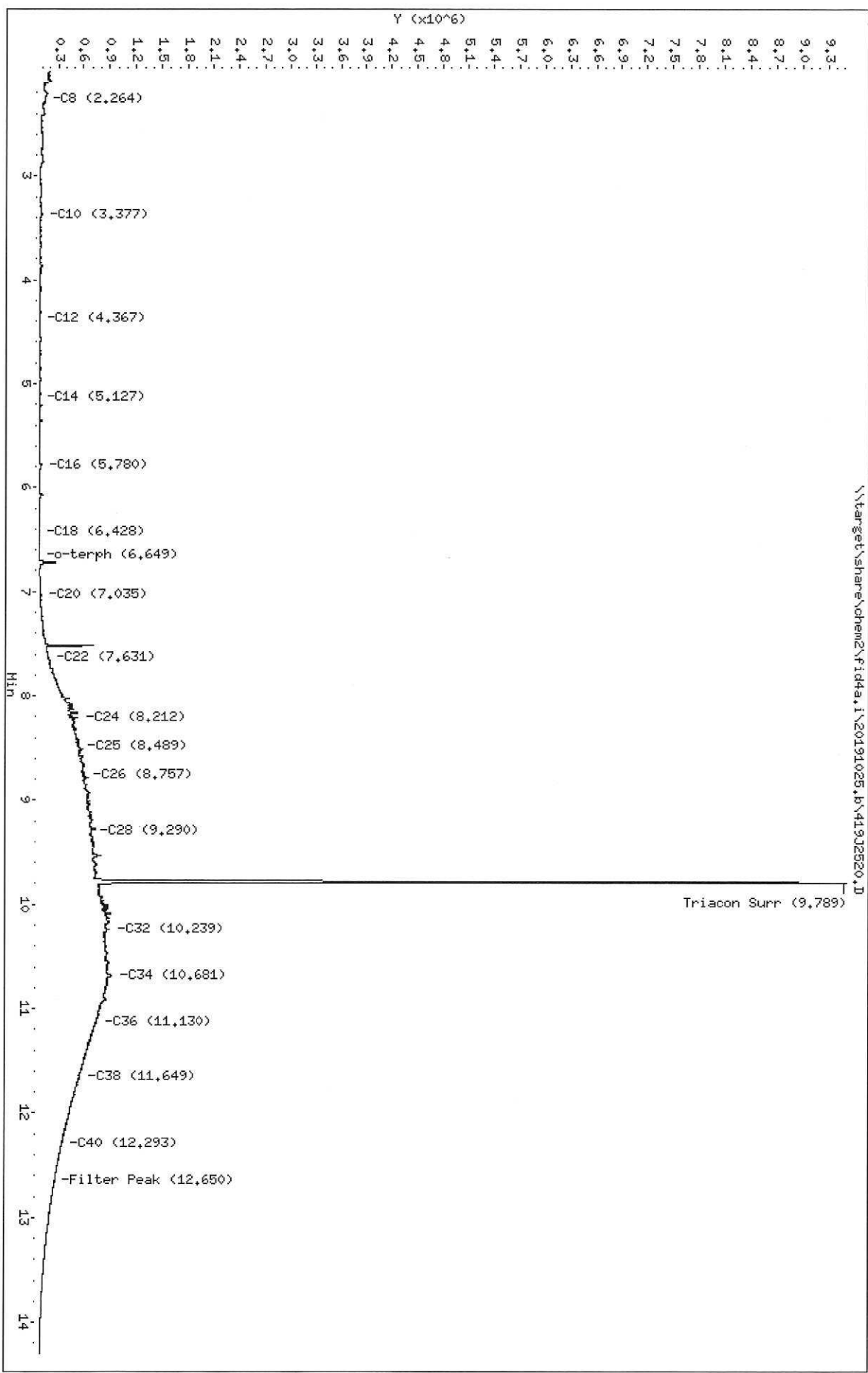
Data File: \\target\share\chem2\fid4a.1\20191025.0\419J2520.D
Date: 25-OCT-2019 18:14
Client ID:
Sample Info: SHJ0406-SCV2

Instrument: fid4a.1

Column phase: RTX-1

Operator: CTO/SH/VTS/JGR
Column diameter: 0.25

\\target\share\chem2\fid4a.1\20191025.0\419J2520.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2520.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV2
Client ID:
Injection: 25-OCT-2019 18:14
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61386	42202	WATPHD	(C12-C24)	14006466	87.9
C10	3.377	0.004	28038	52387	WATPHM	(C24-C38)	135195593	1019.3
C12	4.367	0.020	3146	3151	AK102	(C10-C25)	18822986	96.3
C14	5.127	-0.003	4143	4458	AK103	(C25-C36)	113030798	1130.6
C16	5.780	-0.027	35494	74348	OR.DIES	(C10-C28)	49340102	251.7
C18	6.428	-0.007	6156	6874				
C20	7.035	-0.008	26093	30304				
C22	7.631	-0.008	127794	247657				
C24	8.212	-0.003	471017	746279				
C25	8.489	-0.004	491516	98217				
C26	8.757	-0.008	557900	550938				
C28	9.290	0.005	640615	223711				
C32	10.239	-0.004	847729	1306304				
C34	10.681	-0.000	865603	764427				
Filter Peak	12.650	-0.000	213232	84835	CREOSOT	(C12-C22)	3605357	924.2
C36	11.130	0.001	692159	413129				
C38	11.649	-0.001	503231	200454				
C40	12.293	0.004	305287	287895				
o-terph	6.649	-0.008	4022	3699				
Triacon Surr	9.789	-0.013	8762887	8519530	NAS DIES	(C10-C24)	14444503	74.0

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

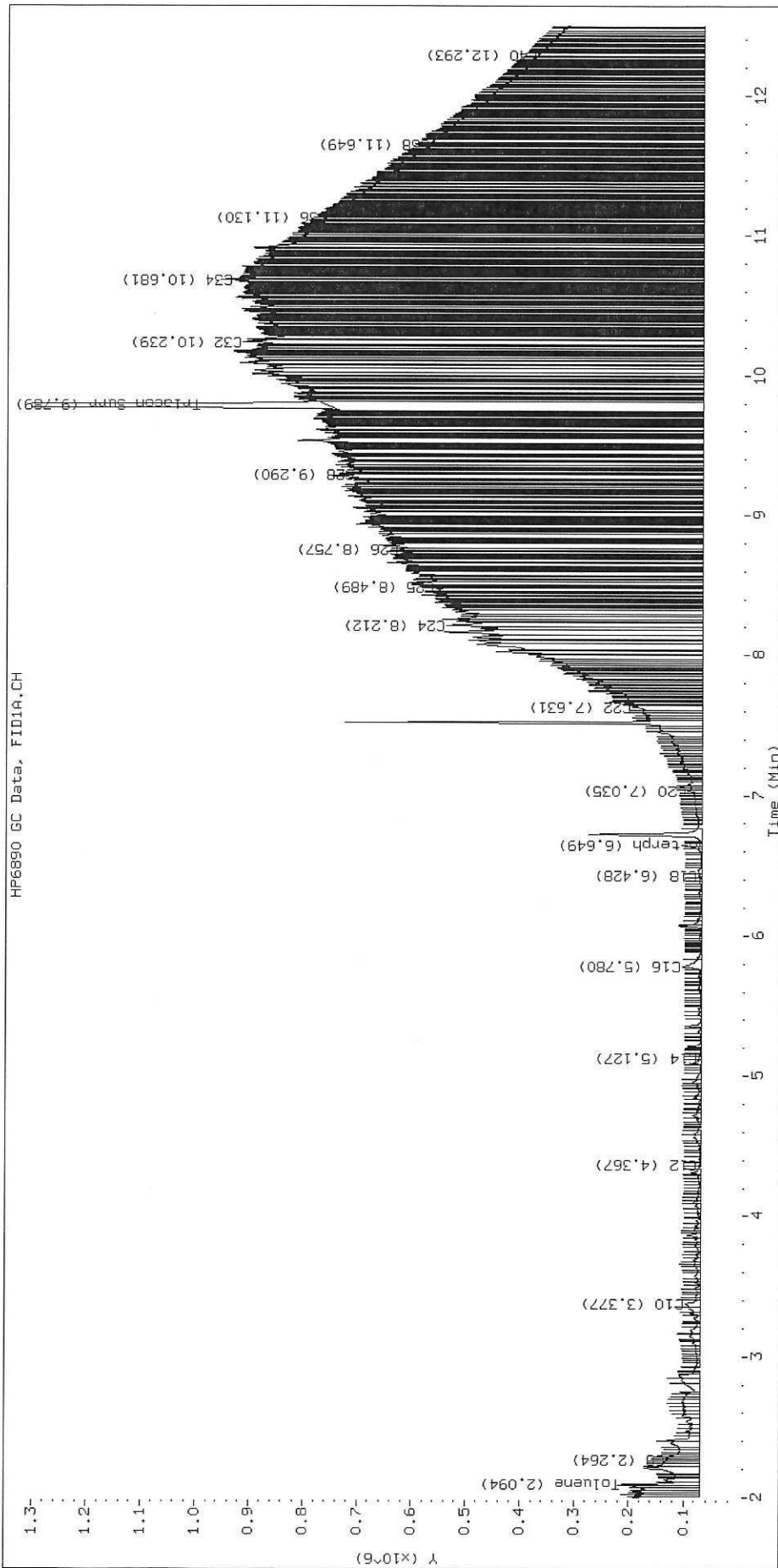
Surrogate	Area	Amount
o-Terphenyl	3699	0.0
Triacontane	8519530	47.9 M

M Indicates the peak was manually integrated

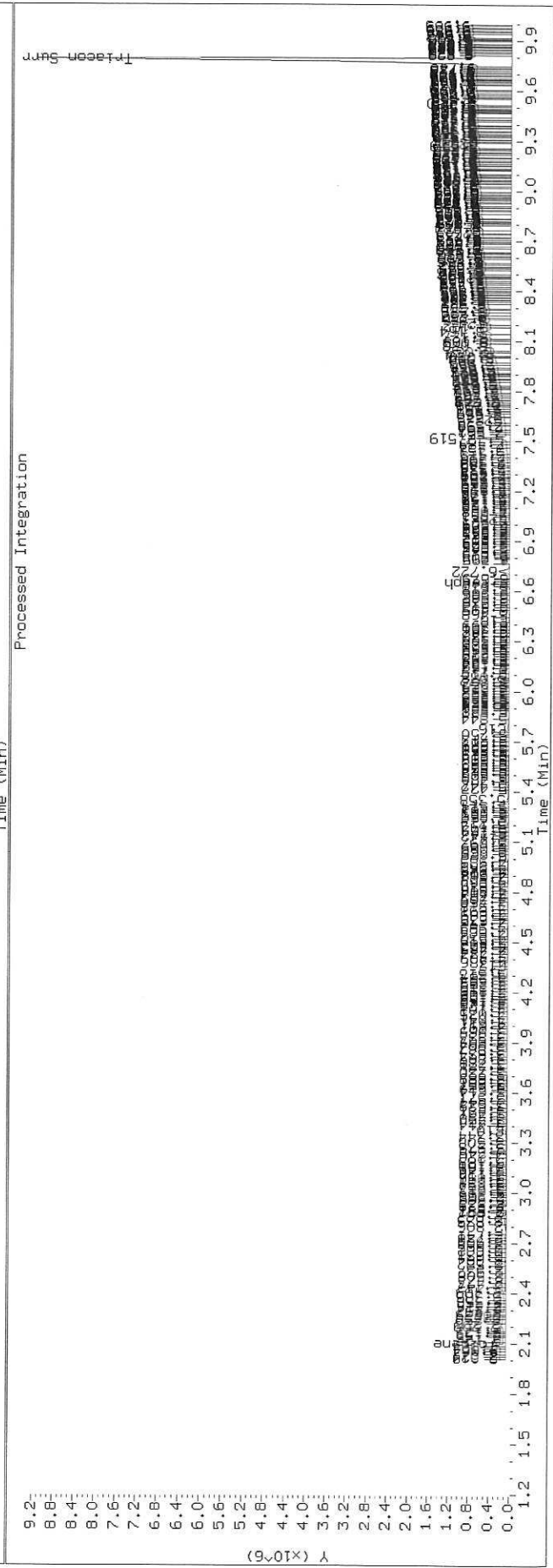
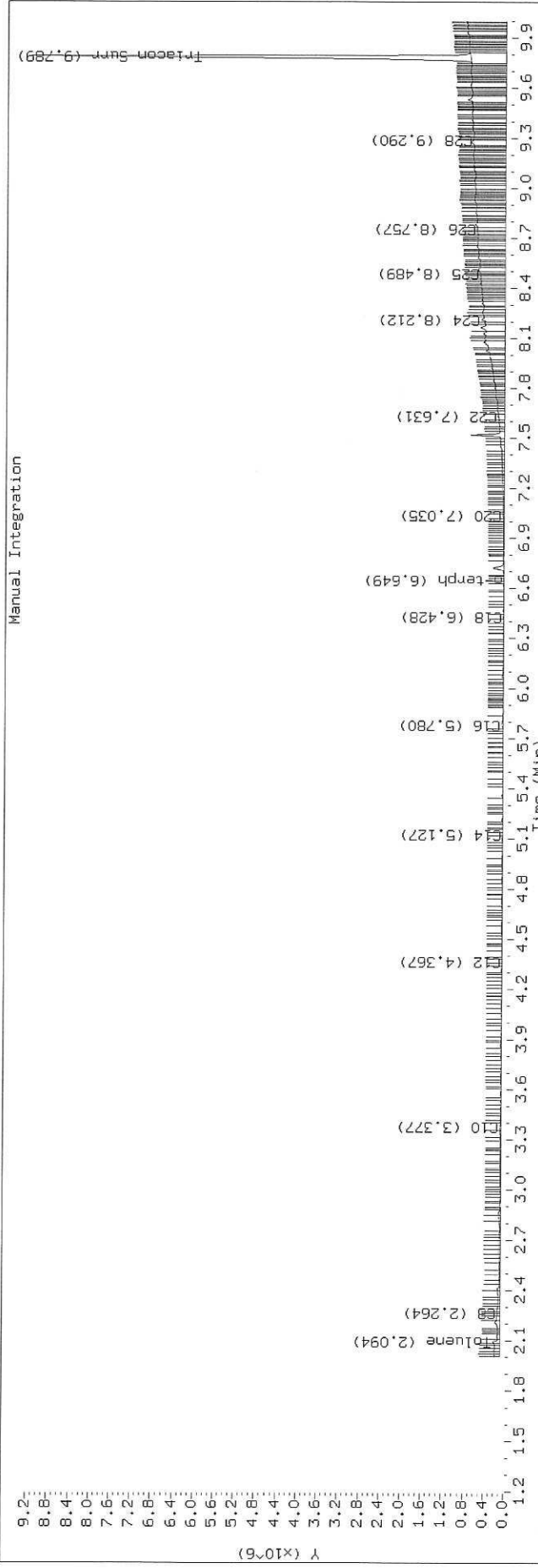
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2520.D SHJ0406-SCV2

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2520.D Injection: 25-OCT-2019 18:14
 Lab ID: SHJ0406-SCV2



Data File: \\target\share\chem2\Fidda.i\20191025.b\41932521.D

Date : 25-OCT-2019 18:35

Client ID:

Sample Info: SH00406-CALD

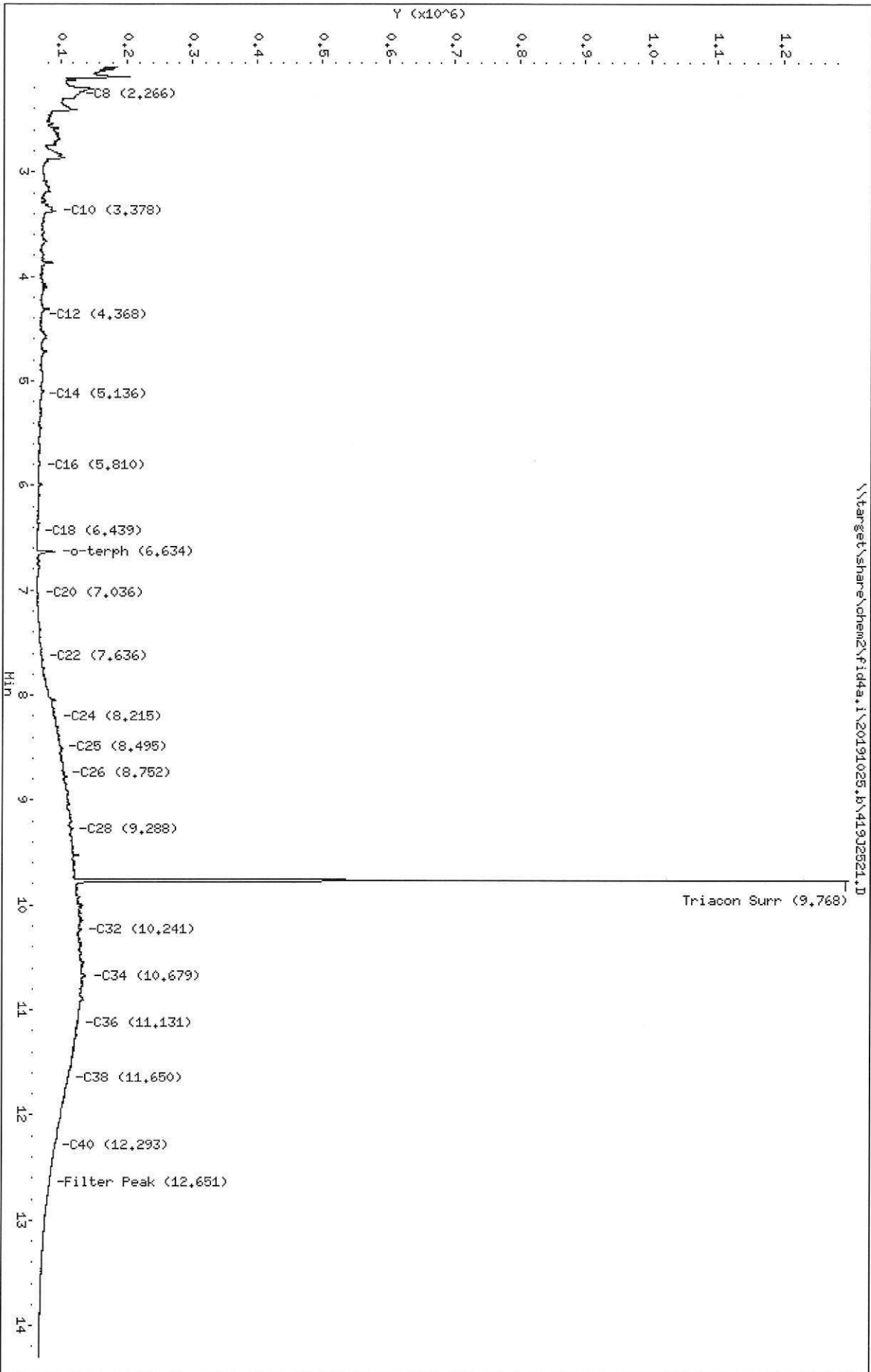
Column phase: RTX-1

Instrument: fidda.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2521.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALD
Client ID:
Injection: 25-OCT-2019 18:35
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.266	0.003	63130	43308	WATPHD	(C12-C24)	1323968	8.3
C10	3.378	0.005	28879	54645	WATPHM	(C24-C38)	12086307	91.1
C12	4.368	0.021	6558	8293	AK102	(C10-C25)	2265512	11.6
C14	5.136	0.007	6204	3069	AK103	(C25-C36)	9919700	99.2
C16	5.810	0.003	3258	3063	OR.DIES	(C10-C28)	4756055	24.3
C18	6.439	0.004	920	449				
C20	7.036	-0.007	1277	1180				
C22	7.636	-0.003	8777	15968				
C24	8.215	0.000	31726	51380				
C25	8.495	0.002	39977	33338				
C26	8.752	-0.012	45255	53640				
C28	9.288	0.003	56620	22552				
C32	10.241	-0.002	70490	38594				
C34	10.679	-0.002	78226	83978				
Filter Peak	12.651	0.000	22108	8817	CREOSOT	(C12-C22)	689259	176.7
C36	11.131	0.002	66508	16608				
C38	11.650	0.000	52851	23597				
C40	12.293	0.004	31673	31207				
o-terph	6.634	-0.022	28829	34405				
Triacon Surr	9.768	-0.034	1173387	818277	NAS DIES	(C10-C24)	1907173	9.8

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

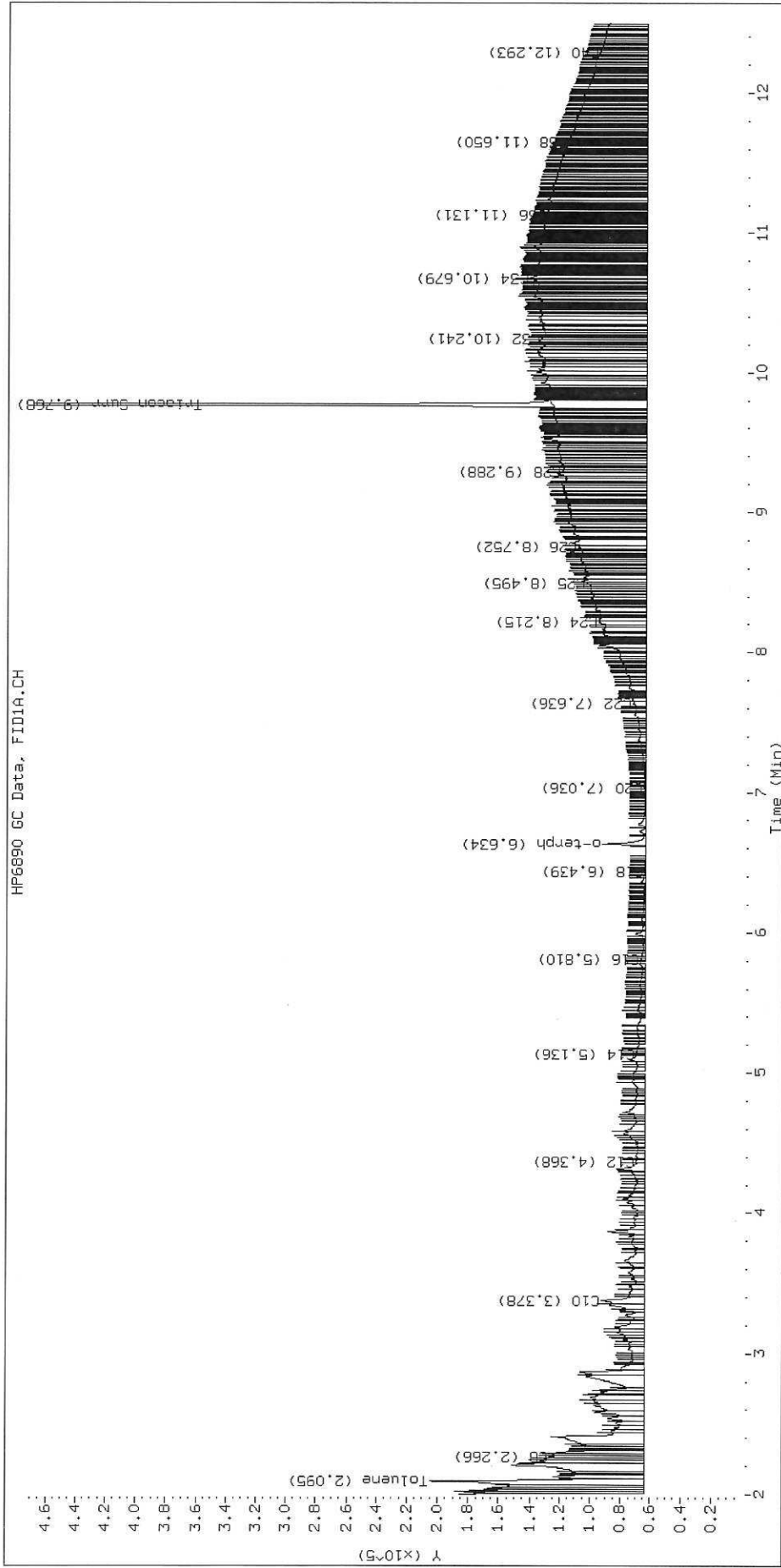
Surrogate	Area	Amount
o-Terphenyl	34405	0.2
Triacontane	818277	4.6 M

M Indicates the peak was manually integrated

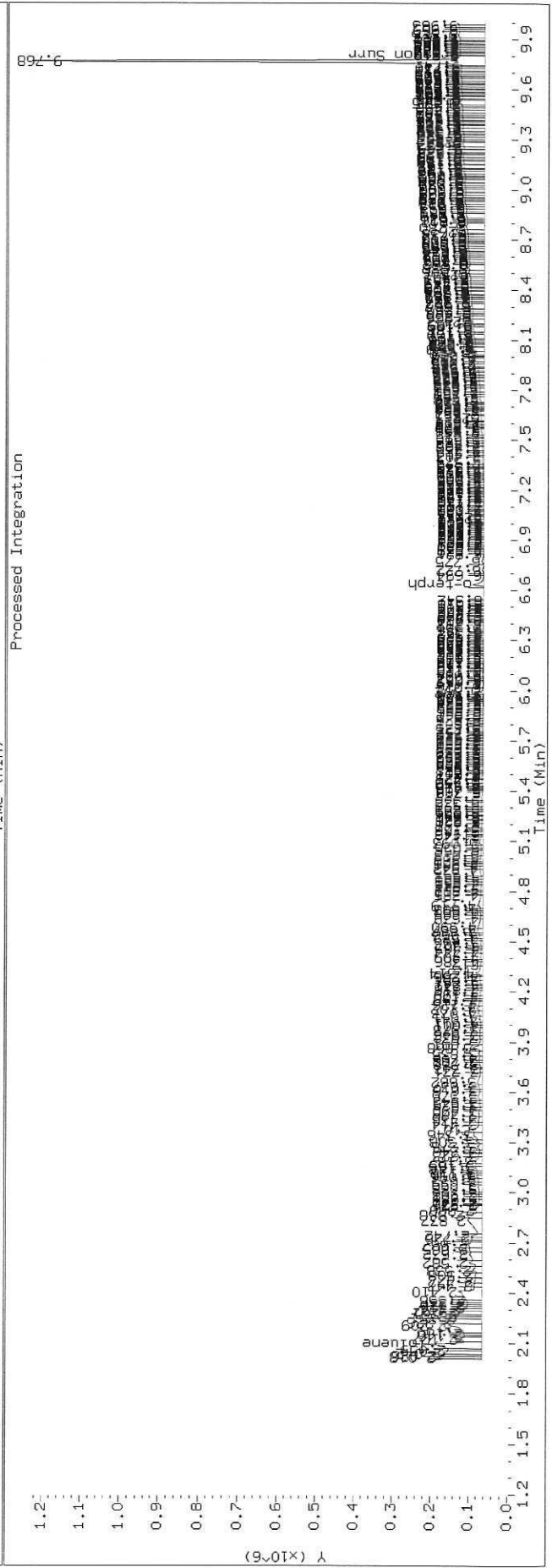
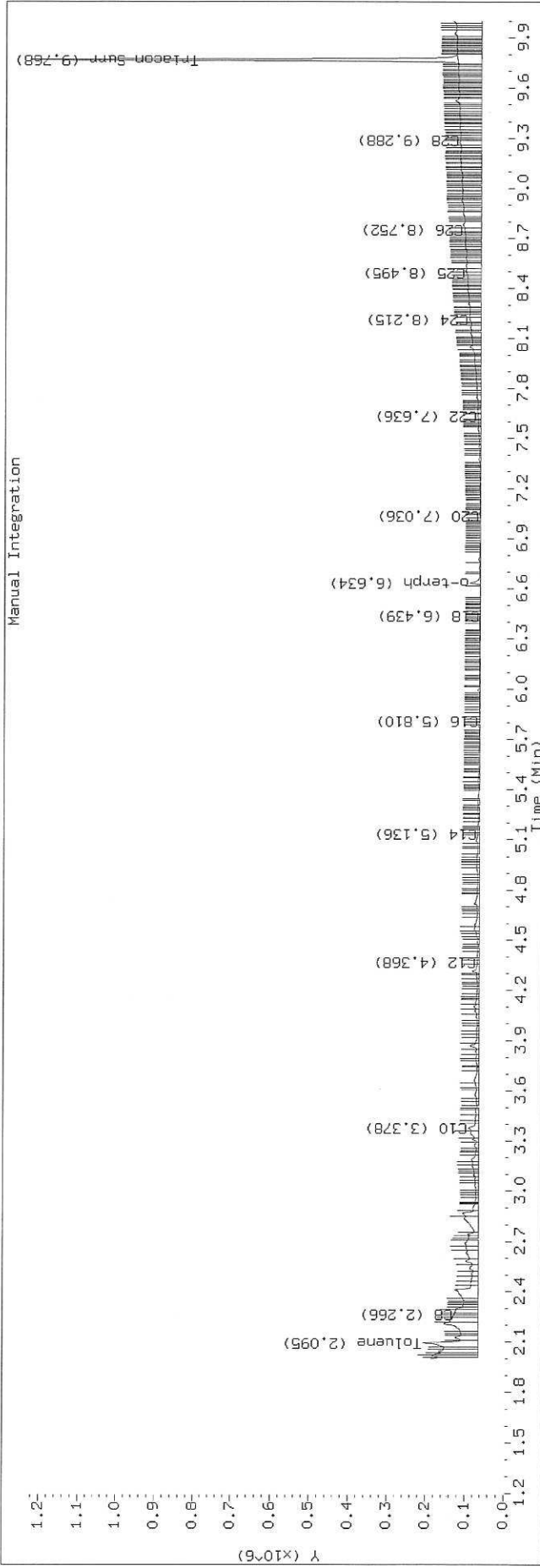
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2521.D SHJ0406-CALD

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2521.D Injection: 25-OCT-2019 18:35
 Lab ID: SHJ0406-CALD



Data File: \\target\share\chem2\Fid4a.I\20191025.B\41932522.D

Date: 25-OCT-2019 18:55

Client ID:

Sample Info: SHJ0406-CALE

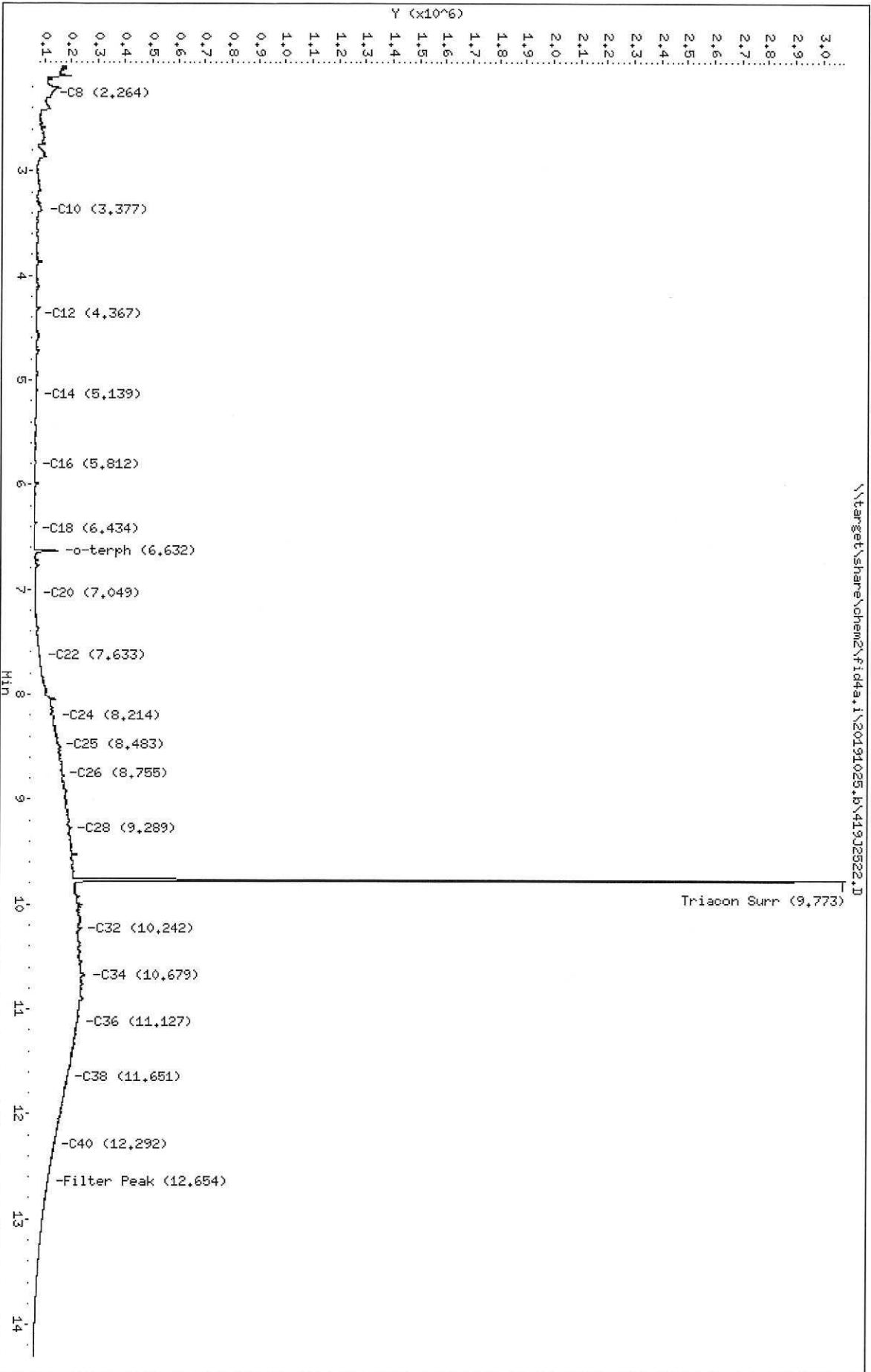
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2522.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALE
Client ID:
Injection: 25-OCT-2019 18:55
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61078	41904	WATPHD	(C12-C24)	2795528	17.5
C10	3.377	0.004	26802	52996	WATPHM	(C24-C38)	31324226	236.2
C12	4.367	0.019	5459	4798	AK102	(C10-C25)	4178110	21.4
C14	5.139	0.010	4962	3160	AK103	(C25-C36)	25813764	258.2
C16	5.812	0.005	2520	1321	OR.DIES	(C10-C28)	10680396	54.5
C18	6.434	-0.000	1311	882				
C20	7.049	0.006	4759	2820				
C22	7.633	-0.005	24172	52812				
C24	8.214	-0.001	79717	62122				
C25	8.483	-0.010	96553	61766				
C26	8.755	-0.010	114382	67845				
C28	9.289	0.004	142997	64203				
C32	10.242	0.000	182878	81971				
C34	10.679	-0.002	200985	321864				
Filter Peak	12.654	0.004	63611	28452	CREOSOT	(C12-C22)	1041017	266.9
C36	11.127	-0.001	175707	78840				
C38	11.651	0.001	139085	55402				
C40	12.292	0.004	88908	61716				
o-terph	6.632	-0.024	91544	90689				
Triacon Surr	9.773	-0.029	2869605	2058184	NAS DIES	(C10-C24)	3295502	16.9

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

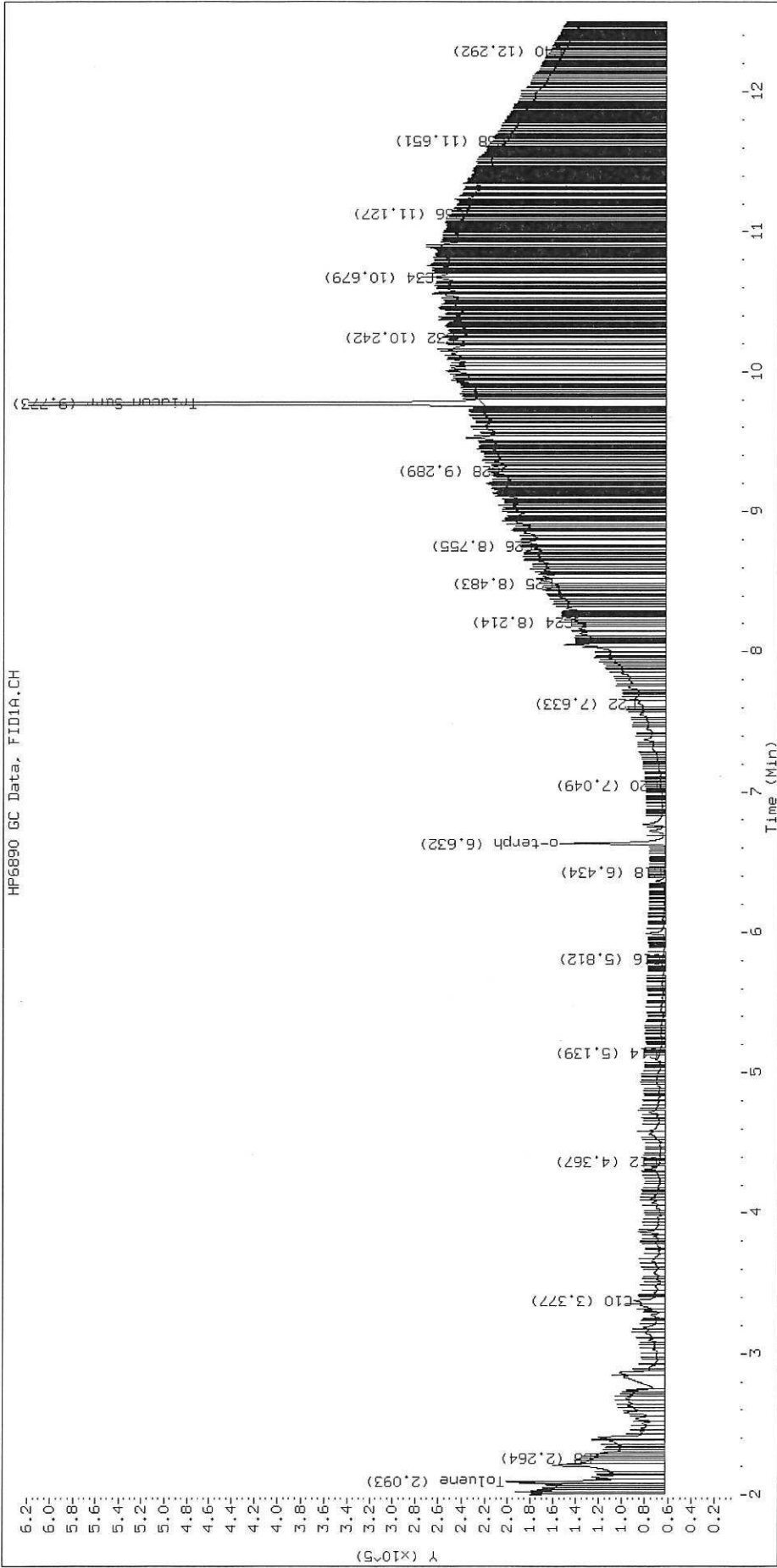
Surrogate	Area	Amount
o-Terphenyl	90689	0.4
Triacotane	2058184	11.6 M

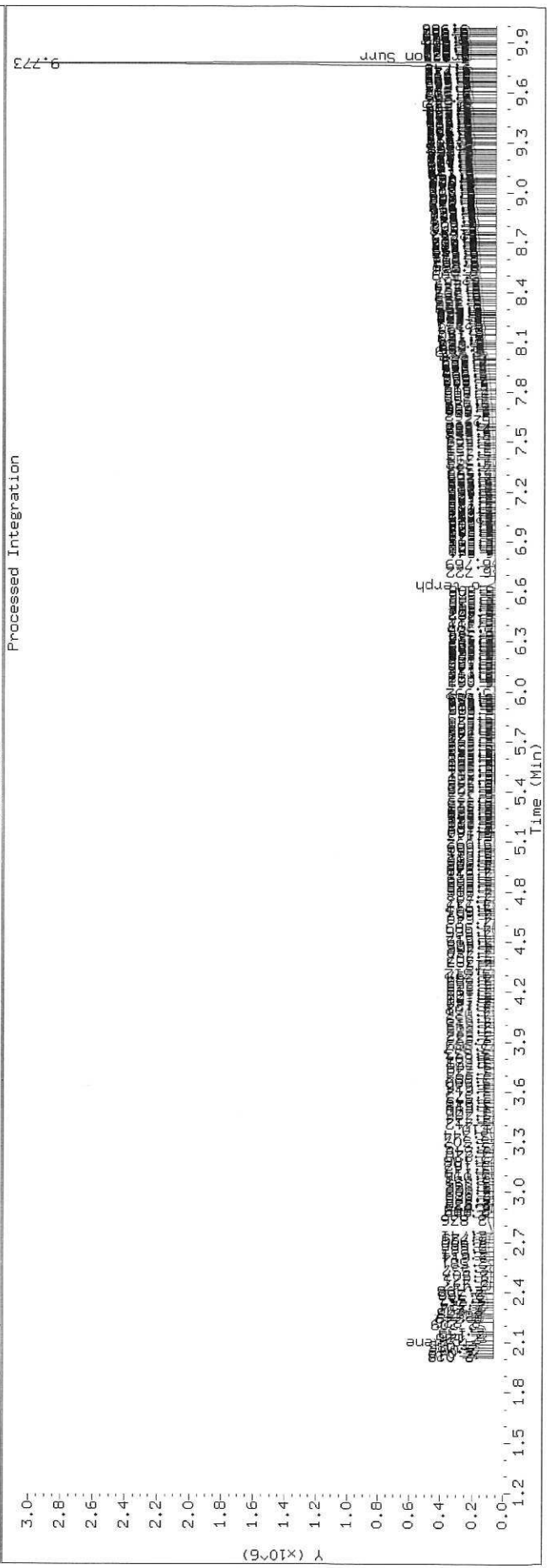
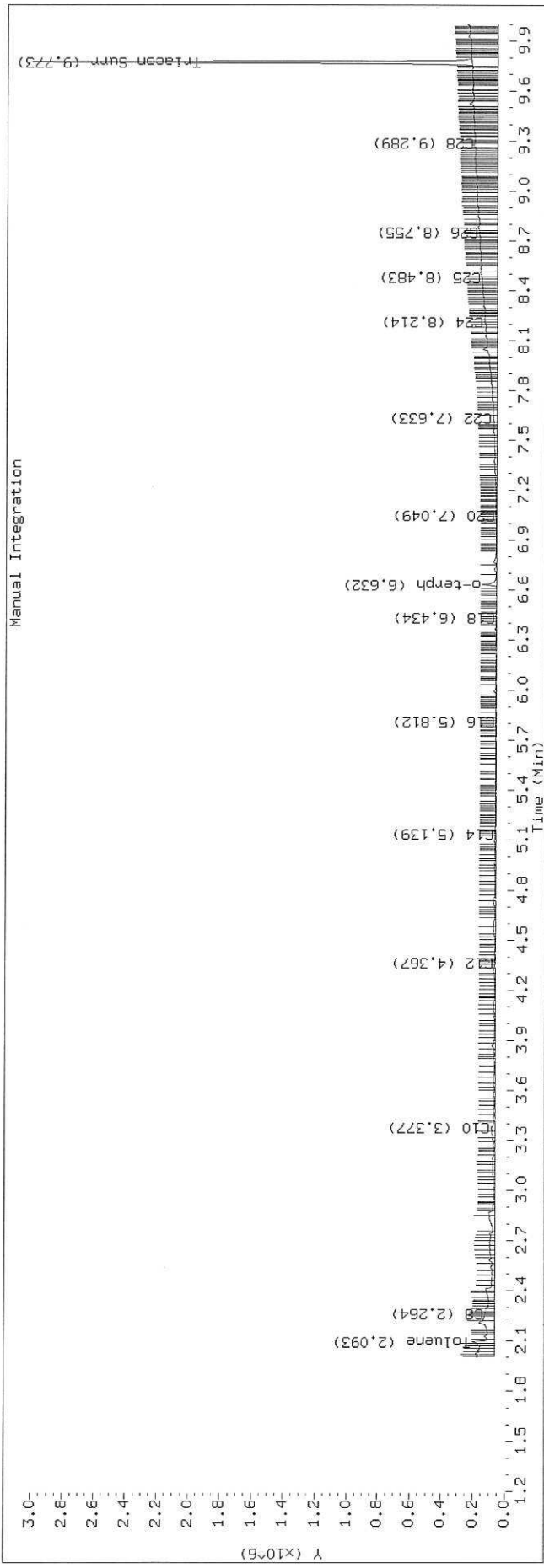
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2522.D SHJ0406-CALE

HF6890 GC Data, FID1A.CH





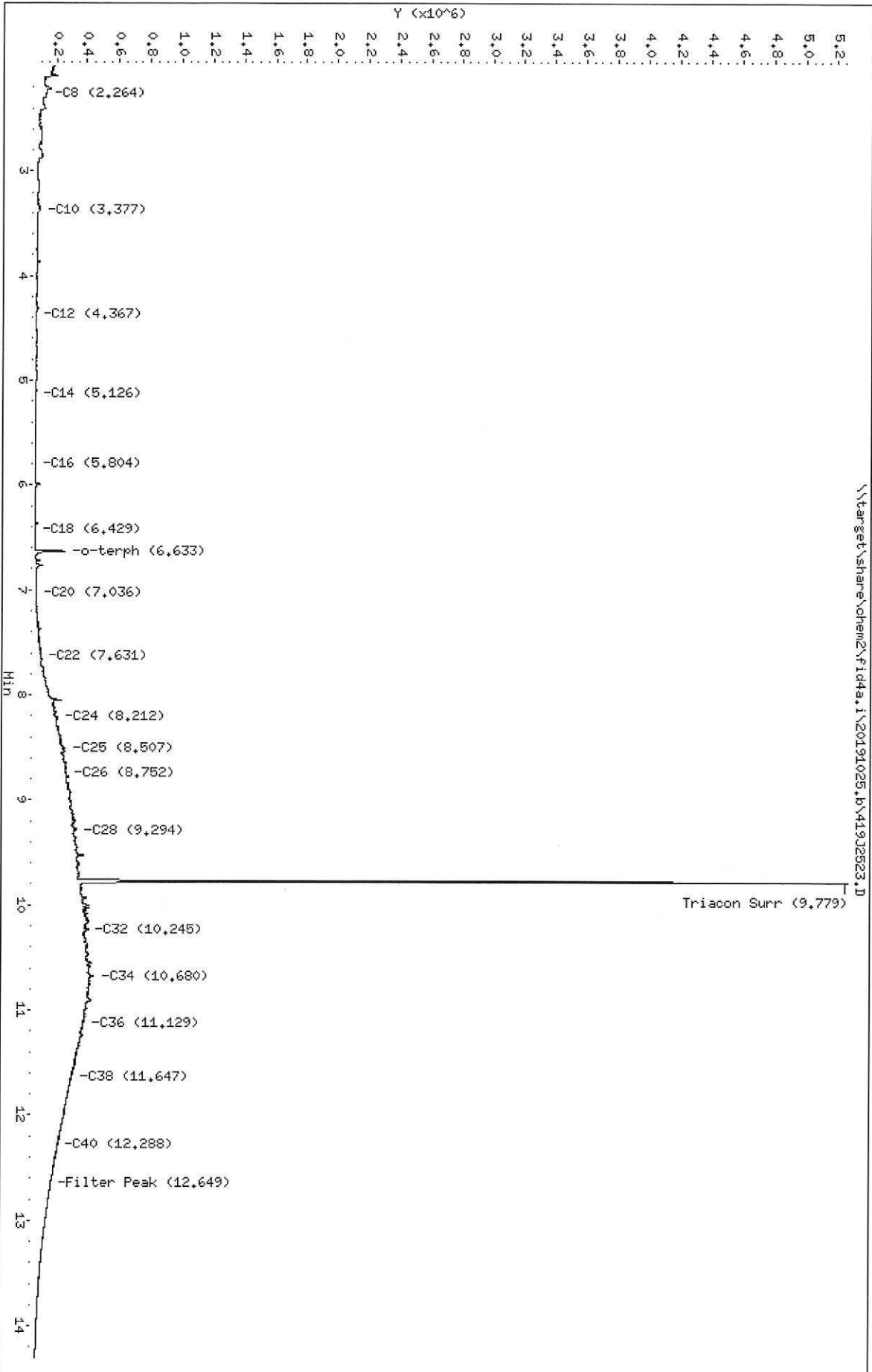
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Date: 25-OCT-2019 19:15

Client ID:
Sample Info: SHJ0406-CALF

Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2523.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALF
Client ID:
Injection: 25-OCT-2019 19:15
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	65663	48530	WATPHD	(C12-C24)	5014916	31.5
C10	3.377	0.004	28749	58345	WATPHM	(C24-C38)	59779944	450.7
C12	4.367	0.020	3969	3466	AK102	(C10-C25)	7200245	36.8
C14	5.126	-0.004	3228	1712	AK103	(C25-C36)	49058982	490.7
C16	5.804	-0.004	2893	3236	OR.DIES	(C10-C28)	19724552	100.6
C18	6.429	-0.005	2246	2256				
C20	7.036	-0.007	10796	11147				
C22	7.631	-0.008	48129	85760				
C24	8.212	-0.003	157019	245696				
C25	8.507	0.014	210068	574409				
C26	8.752	-0.013	221185	294582				
C28	9.294	0.008	276194	178596				
C32	10.245	0.003	351165	209719				
C34	10.680	-0.001	394703	898701				
Filter Peak	12.649	-0.002	125409	50077	CREOSOT	(C12-C22)	1560946	400.2
C36	11.129	-0.000	332260	99465				
C38	11.647	-0.003	258943	64646				
C40	12.288	-0.001	170438	84522				
o-terph	6.633	-0.024	198416	176995				
Triacon Surr	9.779	-0.024	4910254	3941895	NAS DIES	(C10-C24)	5534721	28.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

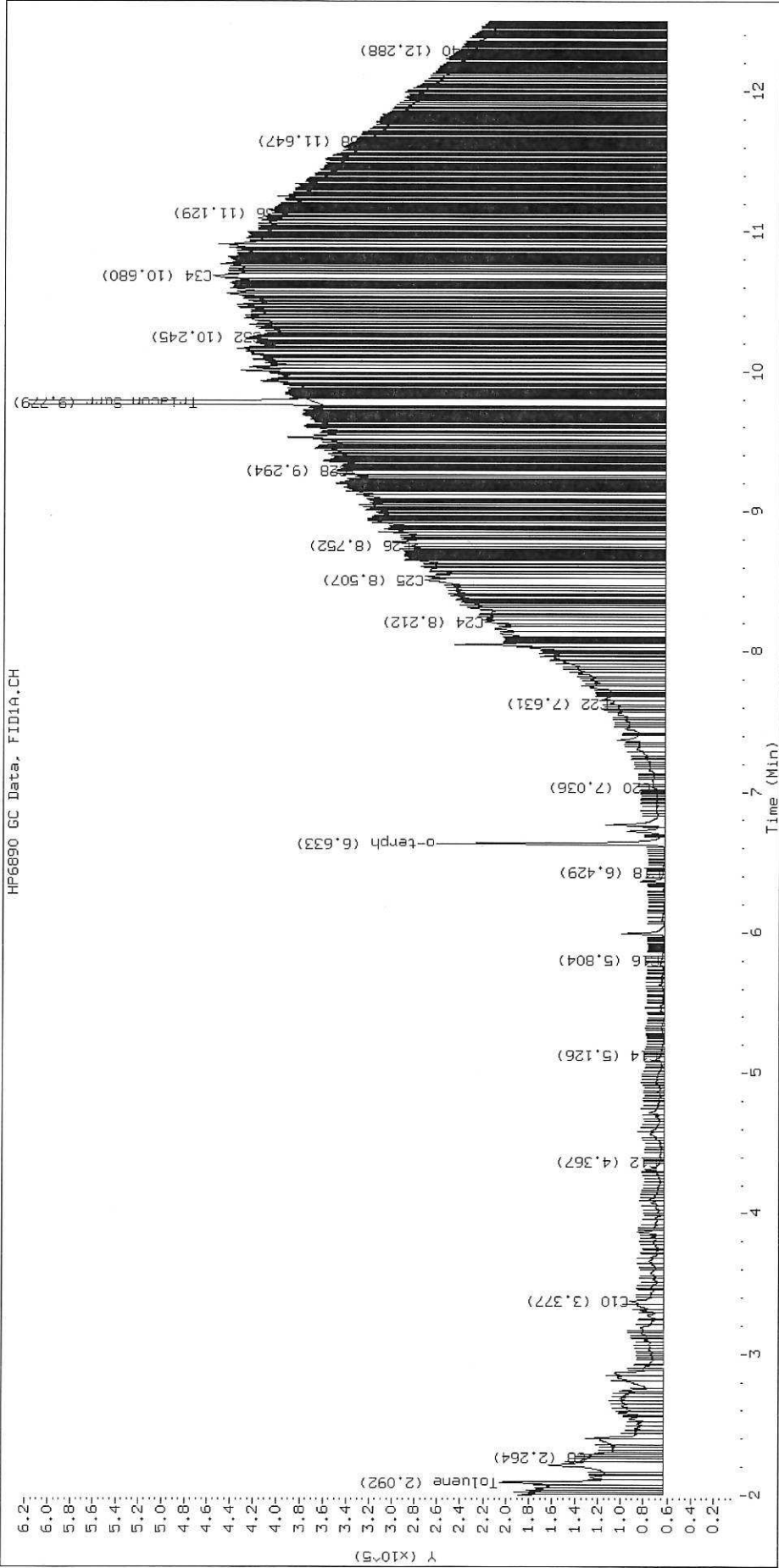
Surrogate	Area	Amount
o-Terphenyl	176995	0.9
Triacontane	3941895	22.1 M

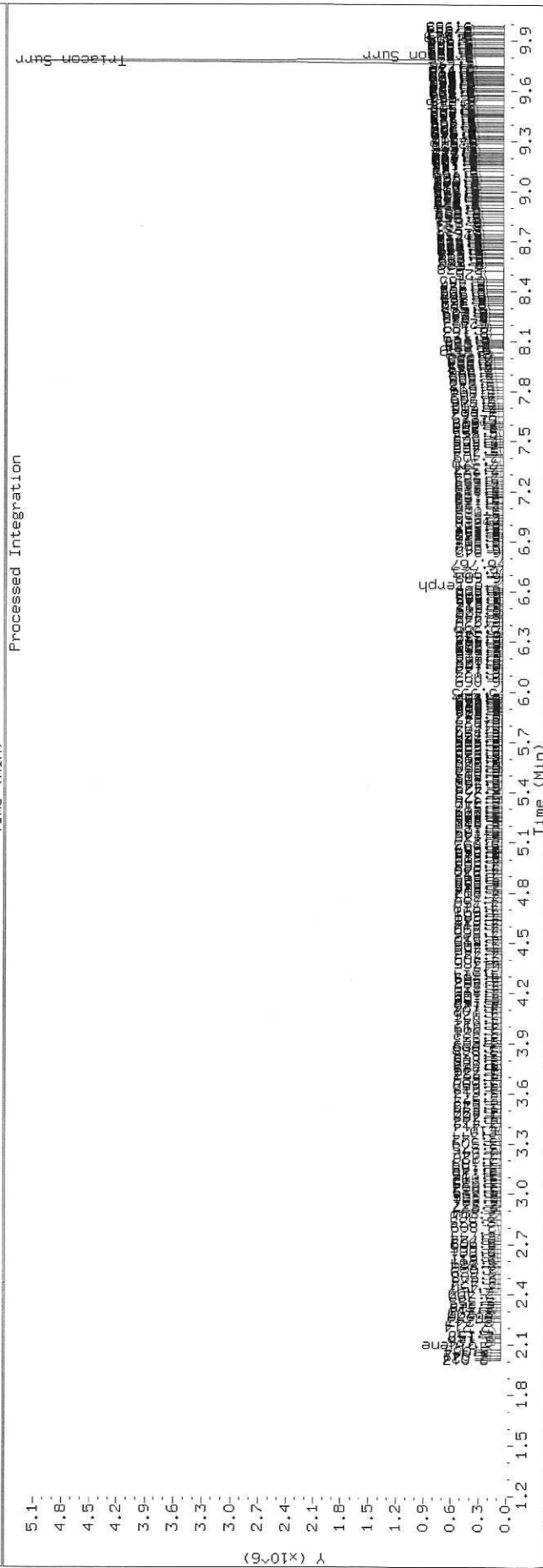
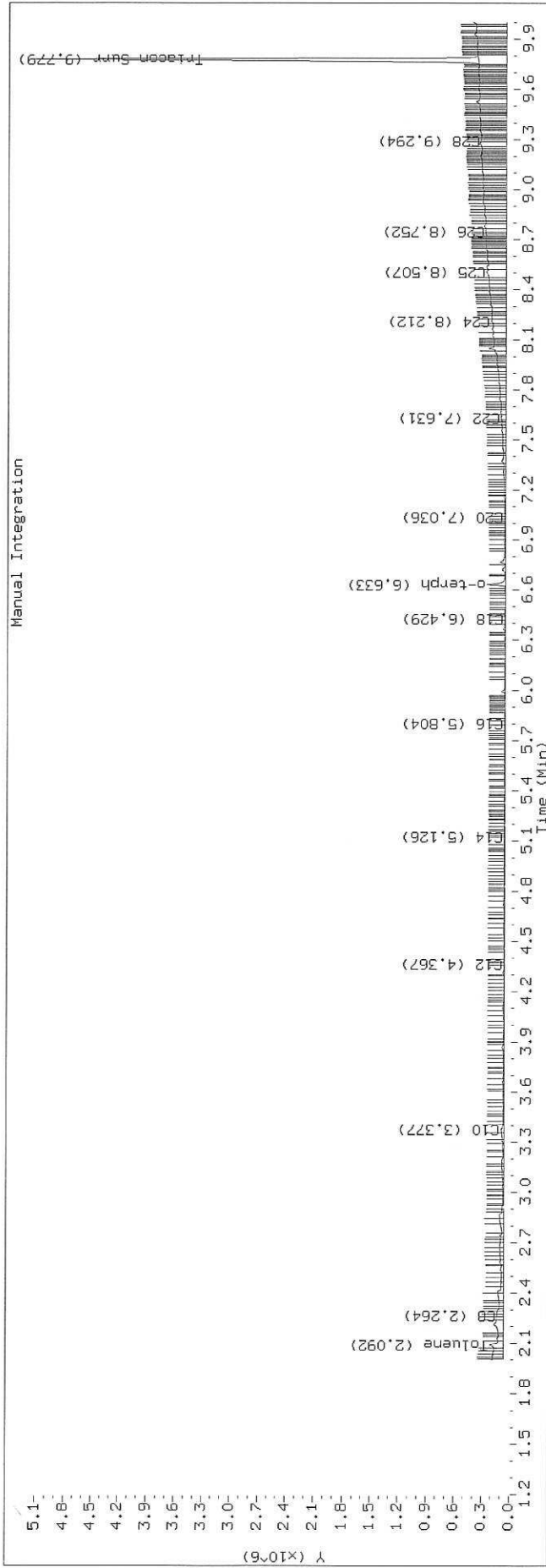
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2523.D SHJ0406-CALF

HF6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\Fid4a.i\20191025.b\41932824.D

Date: 25-OCT-2019 19:34

Client ID:

Sample Info: SH00406-CALG

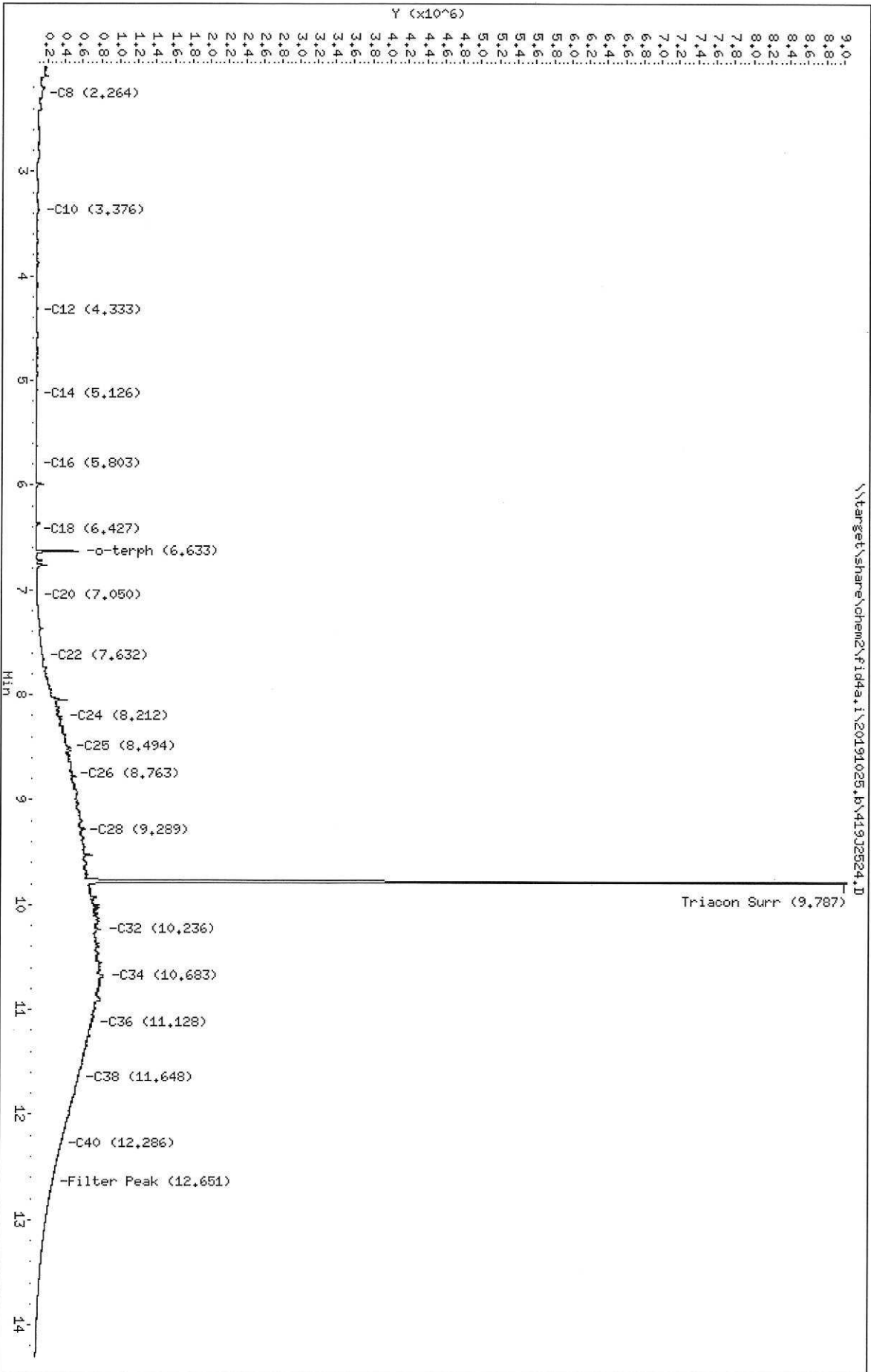
Column phase: RTX-1

Instrument: fid4a.i

Operator: CT0/SH/VTS/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2524.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALG
Client ID:
Injection: 25-OCT-2019 19:34
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	59182	43398	WATPHD	(C12-C24)	9693002	60.8
C10	3.376	0.003	26004	47549	WATPHM	(C24-C38)	119379277	900.1
C12	4.333	-0.015	5078	6418	AK102	(C10-C25)	13482675	69.0
C14	5.126	-0.004	4037	3451	AK103	(C25-C36)	98534931	985.6
C16	5.803	-0.004	5499	6876	OR.DIES	(C10-C28)	38197703	194.9
C18	6.427	-0.008	4829	4807				
C20	7.050	0.007	20128	16414				
C22	7.632	-0.007	95273	191460				
C24	8.212	-0.003	309198	497796				
C25	8.494	0.001	394056	249031				
C26	8.763	-0.001	429806	171737				
C28	9.289	0.004	544145	135929				
C32	10.236	-0.006	748503	1187882				
C34	10.683	0.001	785420	196129				
Filter Peak	12.651	0.000	222539	110925	CREOSOT	(C12-C22)	2913792	747.0
C36	11.128	-0.000	665475	297953				
C38	11.648	-0.001	517415	384389				
C40	12.286	-0.003	322103	175432				
o-terph	6.633	-0.024	489788	368237				
Triacon Surr	9.787	-0.015	8362676	7933666	NAS DIES	(C10-C24)	10069630	51.6

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

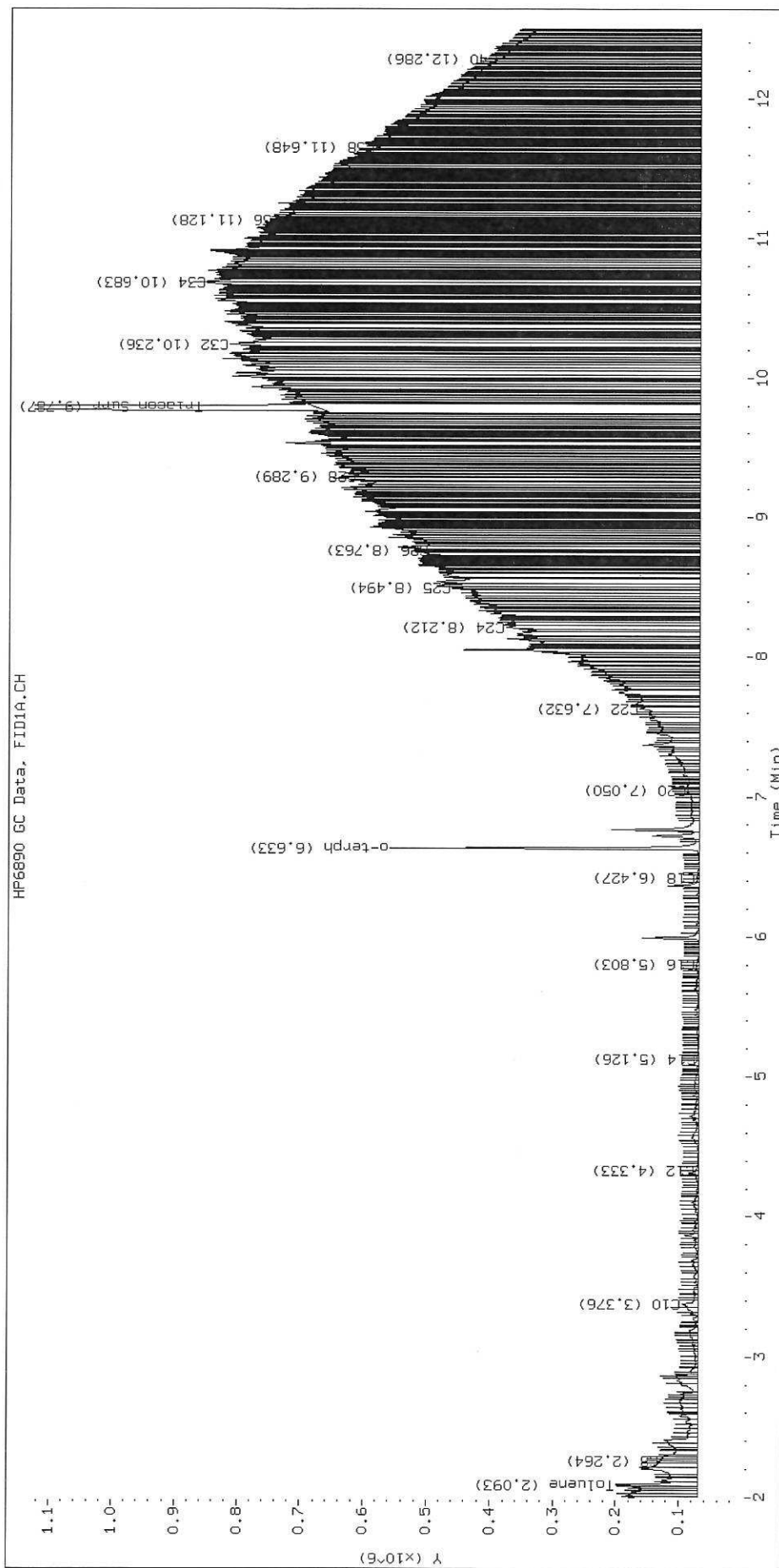
Surrogate	Area	Amount
o-Terphenyl	368237	1.8
Triacotane	7933666	44.6 M

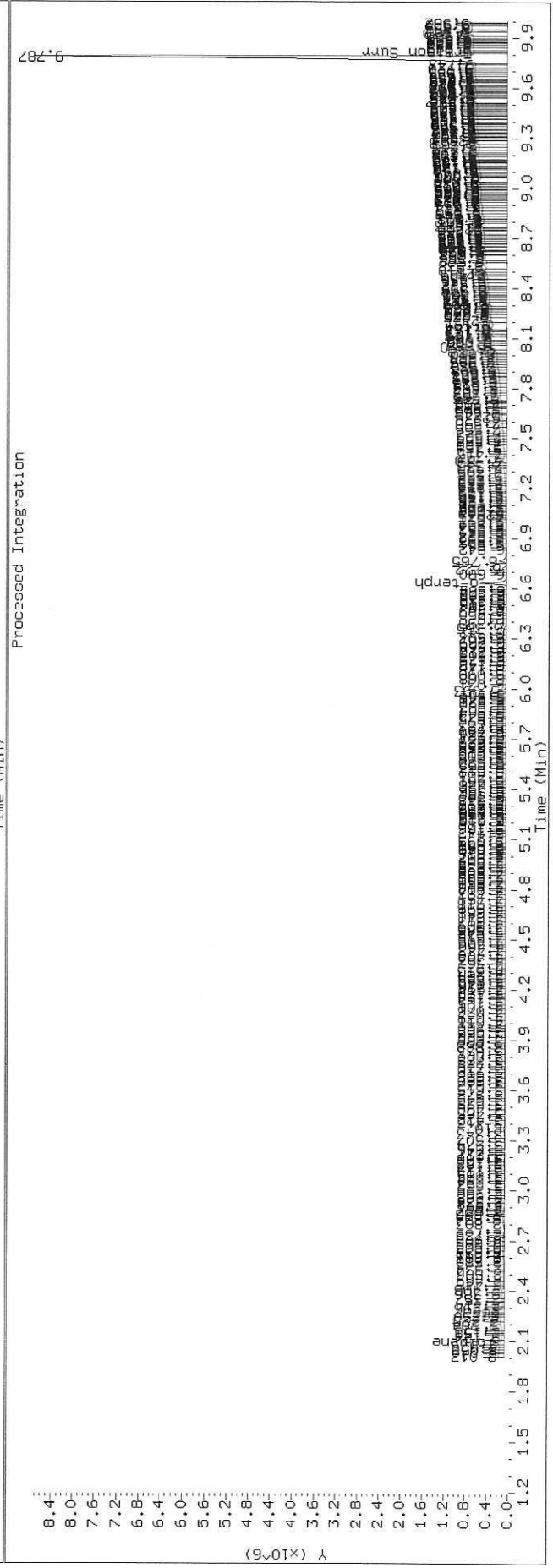
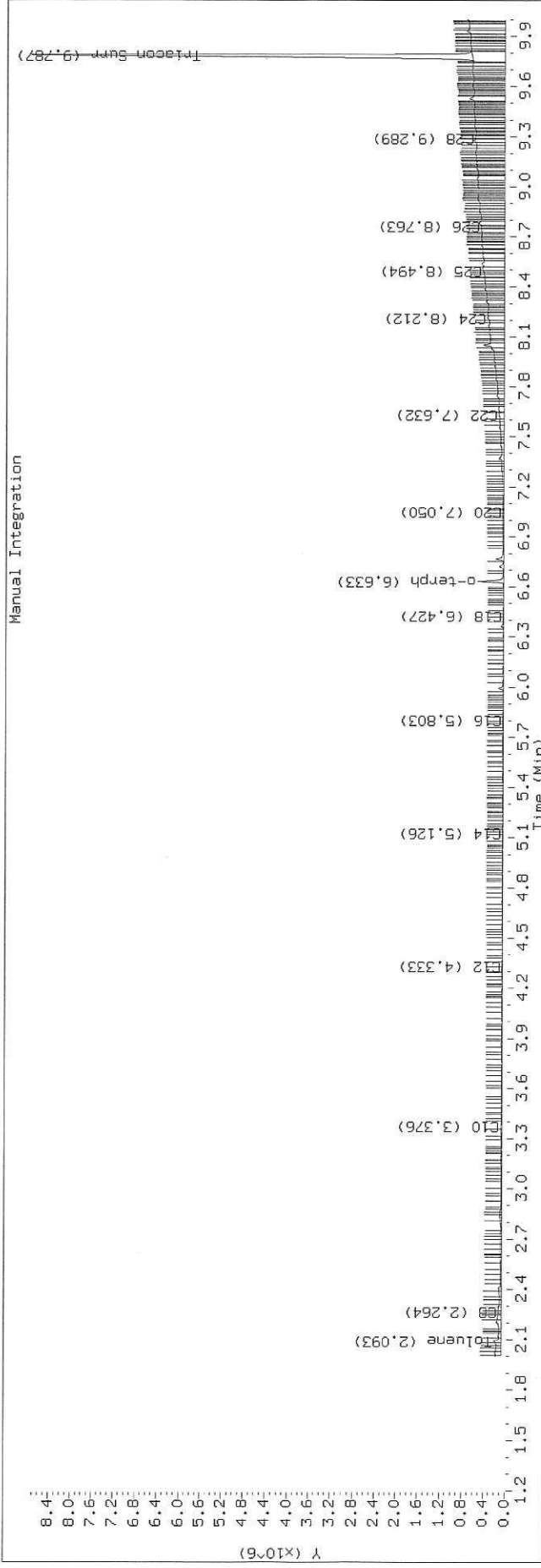
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2524.D SHJ0406-CALG

HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\Fid4a.i\20191025_b\419J2525.D

Date : 25-OCT-2019 19:54

Client ID:

Sample Info: SH30406-CLLH

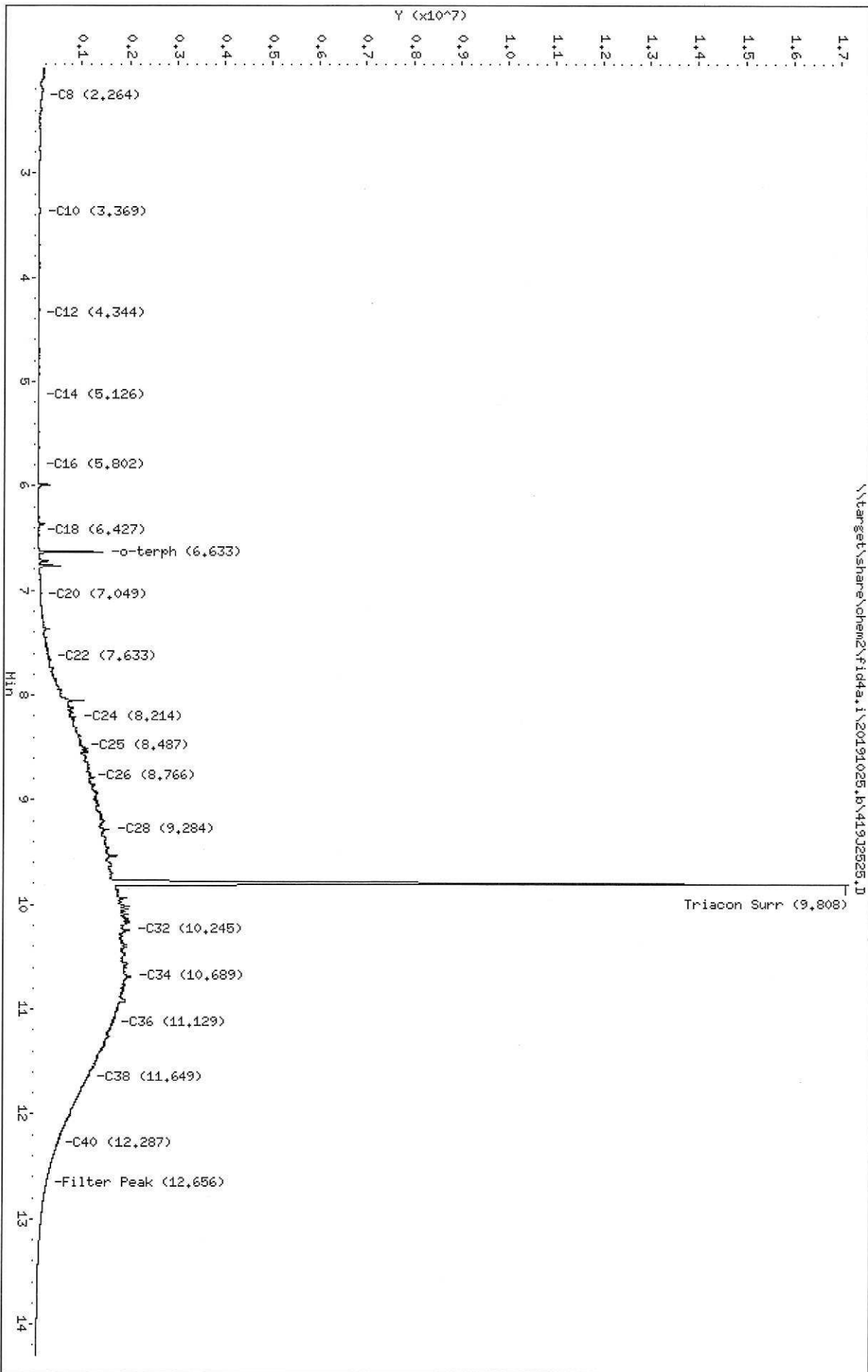
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTD/SH/VTS/JGR

Column diameter: 0.25

\\target\share\chem2\Fid4a.i\20191025_b\419J2525.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2525.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALH
Client ID:
Injection: 25-OCT-2019 19:54
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	56415	38567	WATPHD	(C12-C24)	26301815	165.1
C10	3.369	-0.003	27712	41157	WATPHM	(C24-C38)	301341214	2272.0
C12	4.344	-0.003	5882	6952	AK102	(C10-C25)	35690614	182.6
C14	5.126	-0.003	7507	9244	AK103	(C25-C36)	251232894	2512.9
C16	5.802	-0.005	13222	14374	OR.DIES	(C10-C28)	99037801	505.3
C18	6.427	-0.008	19180	20067				
C20	7.049	0.006	65385	59588				
C22	7.633	-0.006	263262	368137				
C24	8.214	-0.001	822366	1422767				
C25	8.487	-0.006	962652	426588				
C26	8.766	0.002	1133629	505360				
C28	9.284	-0.002	1509428	2436681				
C32	10.245	0.003	1957482	3059346				
C34	10.689	0.008	1976148	4422245				
Filter Peak	12.656	0.006	231984	148698	CREOSOT	(C12-C22)	8248980	2114.6
C36	11.129	-0.000	1621407	646645				
C38	11.649	-0.000	1113973	443976				
C40	12.287	-0.002	466123	386816				
o-terph	6.633	-0.024	1387955	962768				
Triacon Surr	9.808	0.006	15482951	20436973	NAS DIES	(C10-C24)	26712775	136.9

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

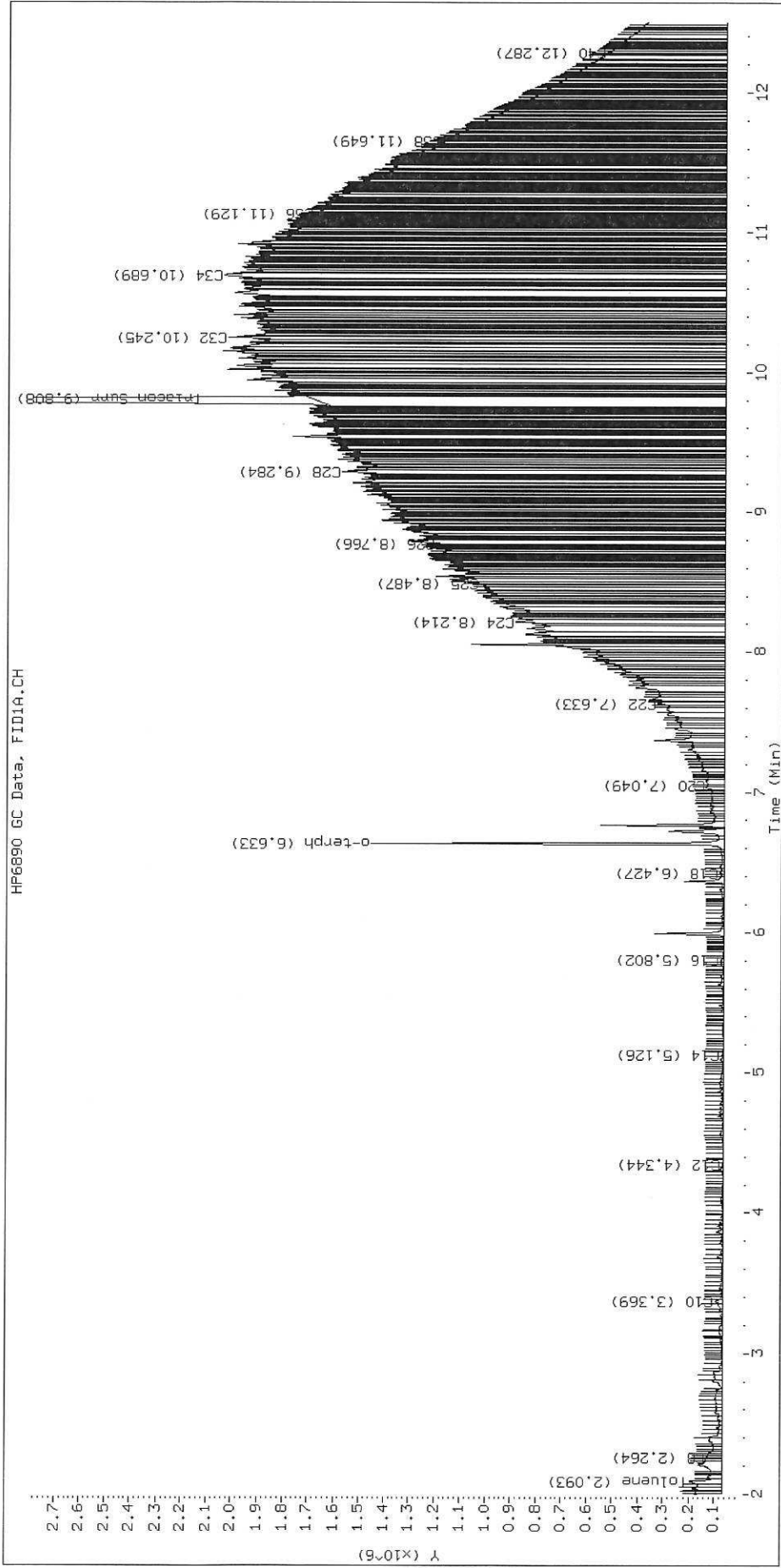
Surrogate	Area	Amount
o-Terphenyl	962768	4.7
Triacontane	20436973	114.8 M

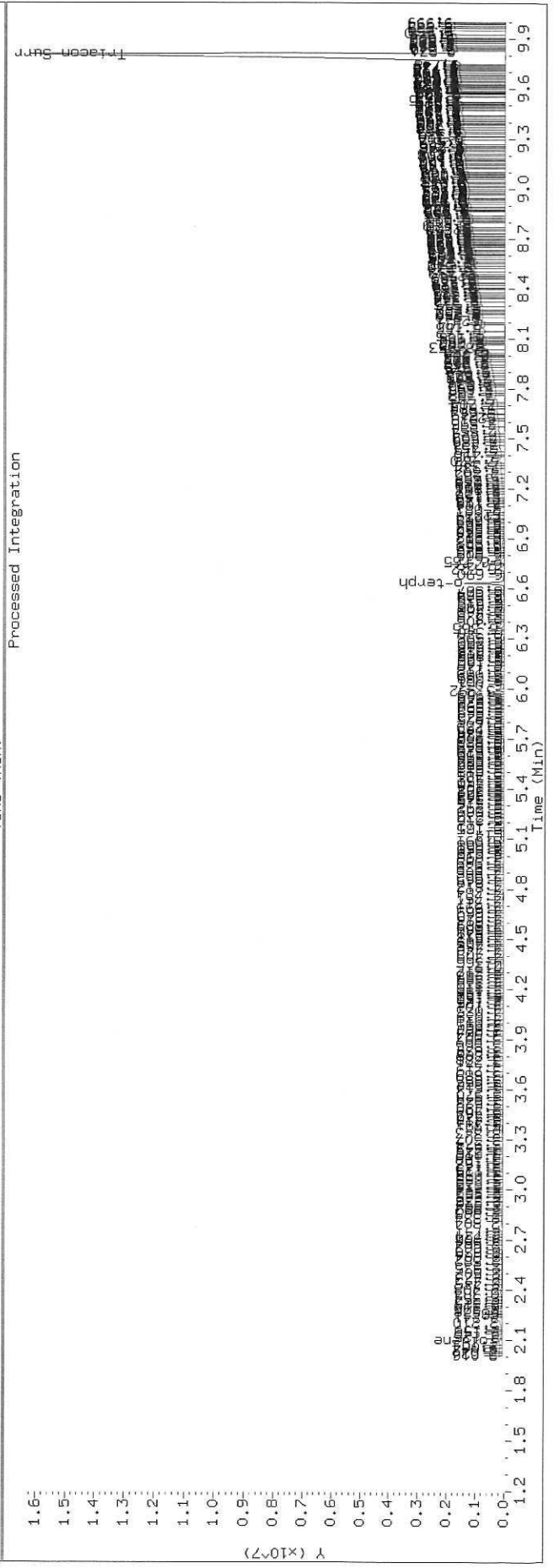
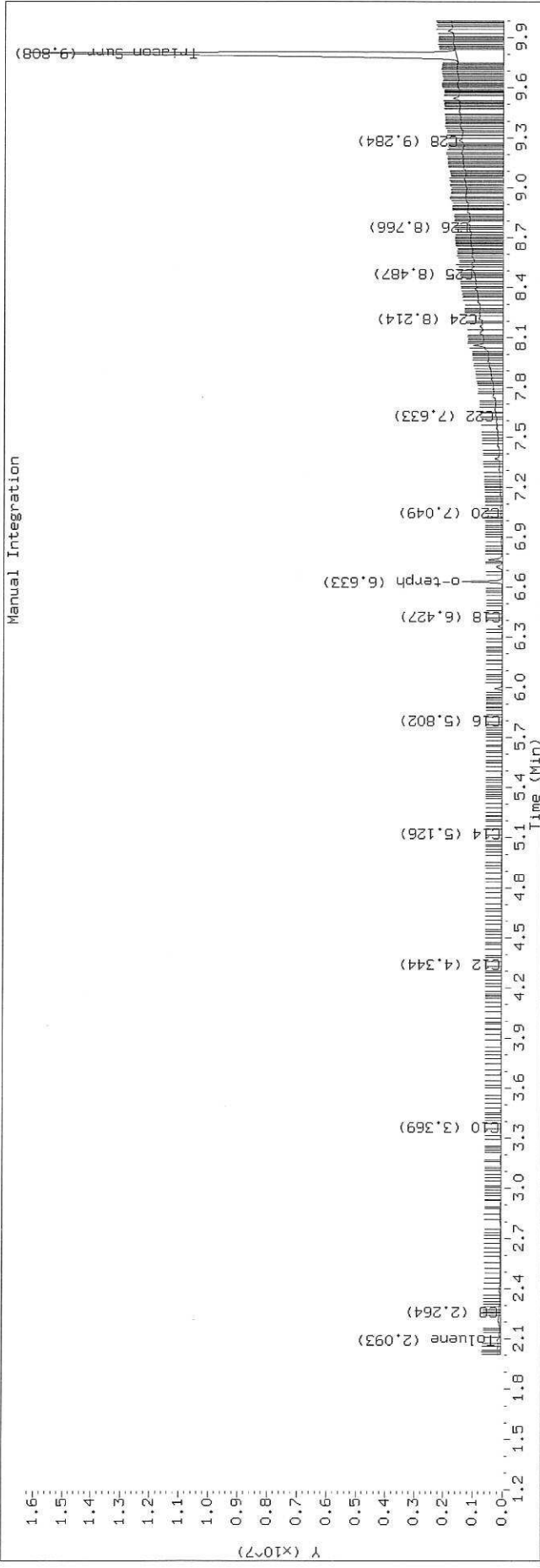
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2525.D SHJ0406-CALH

HP6890 GC Data, FID1A.CH

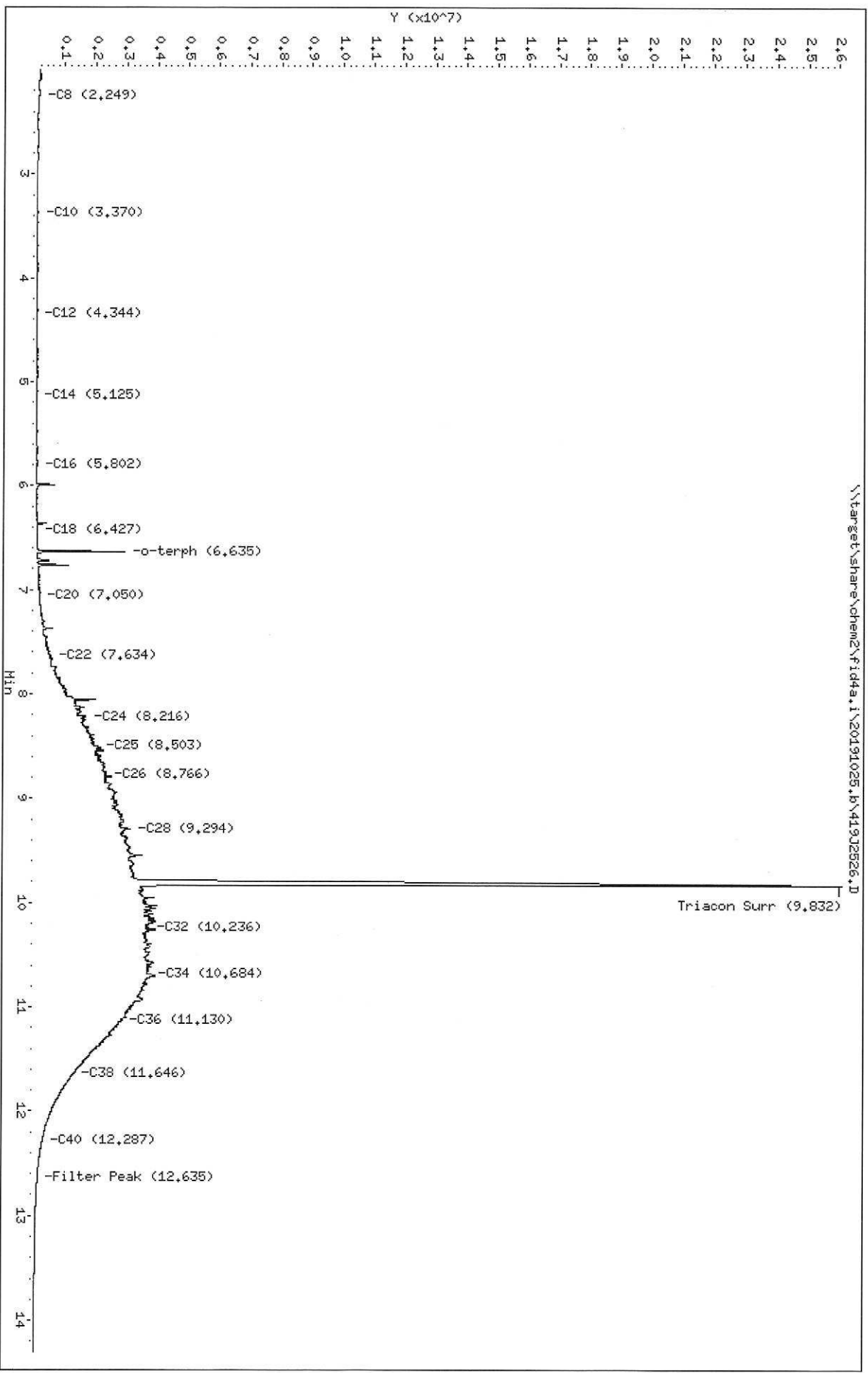




Data File: \\target\share\chem2\fid4a.1\20191025.B\419J2526.D
Date : 25-OCT-2019 20:15
Client ID:
Sample Info: SHJ0406-CALI

Column phase: RTX-1

Instrument: fid4a.1
Operator: CT0/SH/NTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2526.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALI
Client ID:
Injection: 25-OCT-2019 20:15
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.249	-0.013	68157	97437	WATPHD	(C12-C24)	53373864	335.0
C10	3.370	-0.003	37579	47410	WATPHM	(C24-C38)	579217404	4367.1
C12	4.344	-0.003	10600	10459	AK102	(C10-C25)	72516526	370.9
C14	5.125	-0.004	18160	20643	AK103	(C25-C36)	501300122	5014.2
C16	5.802	-0.005	31467	33333	OR.DIES	(C10-C28)	201523108	1028.2
C18	6.427	-0.008	46016	47297				
C20	7.050	0.007	139853	120986				
C22	7.634	-0.005	536997	729929				
C24	8.216	0.002	1657695	1800915				
C25	8.503	0.010	2055767	2566063				
C26	8.766	0.002	2309434	1601749				
C28	9.294	0.008	3108955	5845567				
C32	10.236	-0.006	3694253	3475497				
C34	10.684	0.002	3746349	1670889				
Filter Peak	12.635	-0.015	125409	273331	CREOSOT	(C12-C22)	16636154	4264.7
C36	11.130	0.002	2854299	995118				
C38	11.646	-0.003	1329722	1616024				
C40	12.287	-0.002	293577	286952				
o-terph	6.635	-0.022	2904255	1975795				
Triacon Surr	9.832	0.030	22638379	40251878	NAS DIES	(C10-C24)	53915002	276.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

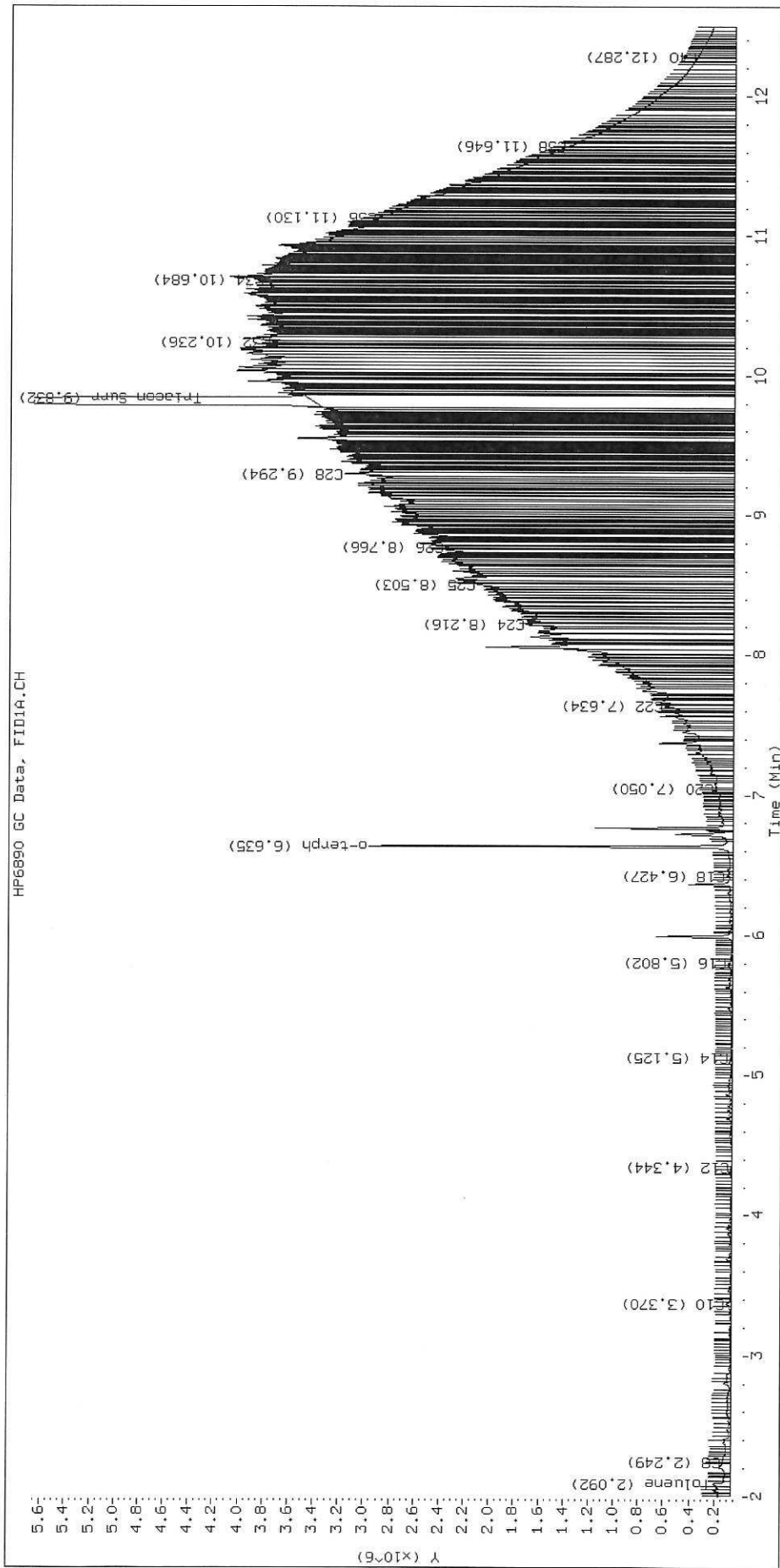
Surrogate	Area	Amount
o-Terphenyl	1975795	9.7
Triacontane	40251878	226.2 M

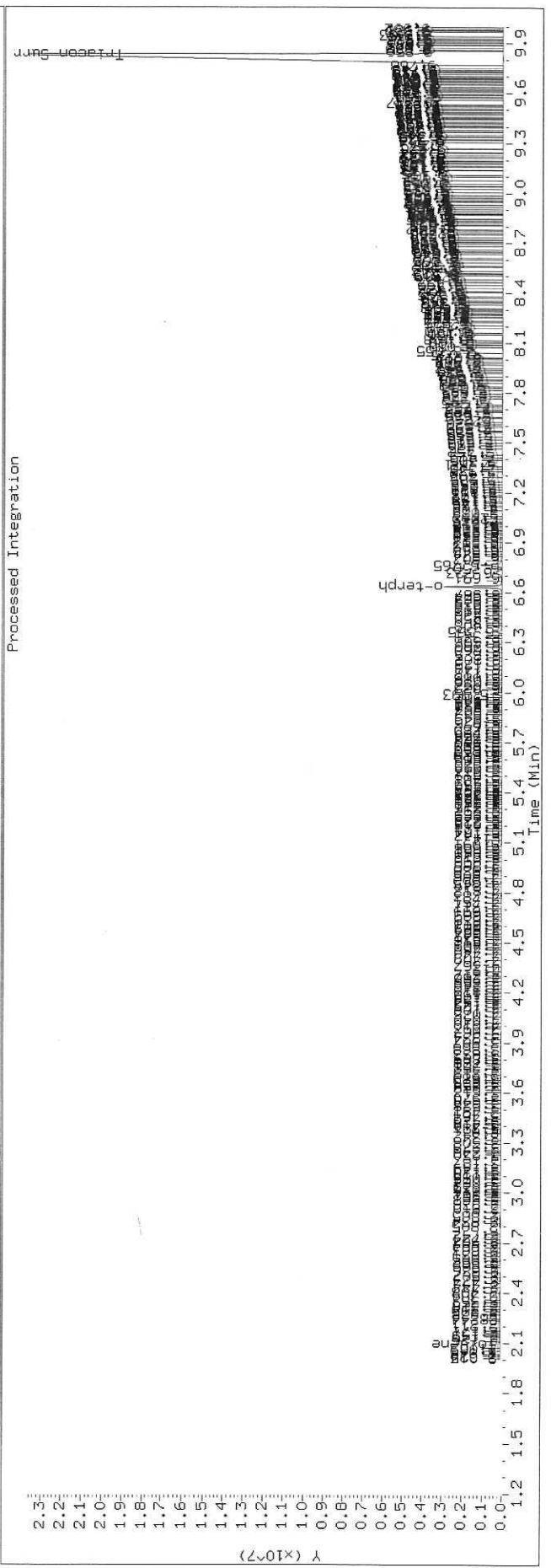
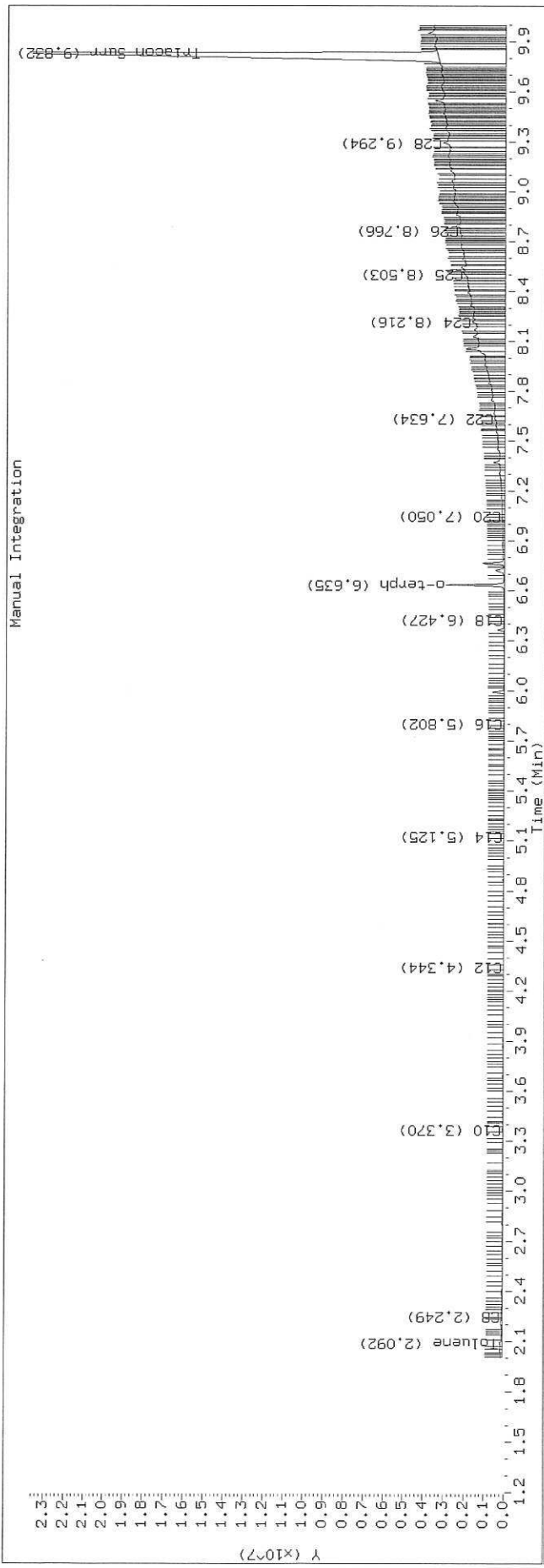
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2526.D SHJ0406-CALI

HP6890 GC Data, FID1A.CH

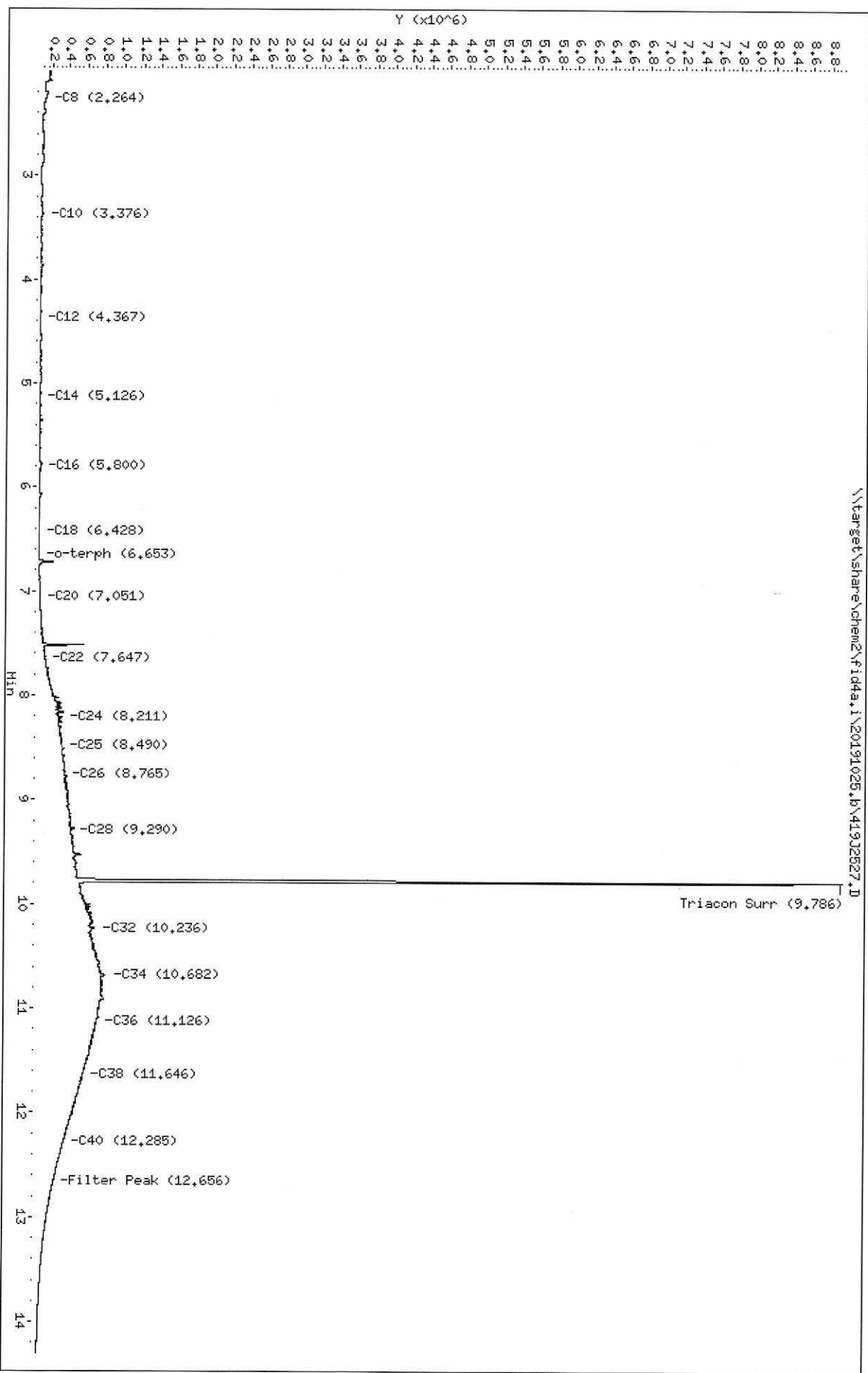




Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2527.D
 Date : 25-OCT-2019 20:35
 Client ID:
 Sample Info: SHJ0406-SCV3

Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2527.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV3
Client ID:
Injection: 25-OCT-2019 20:35
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.264	0.002	53471	36749	WATPHD	(C12-C24)	9151453	57.4
C10	3.376	0.003	25610	47191	WATPHM	(C24-C38)	105205257	793.2
C12	4.367	0.020	4177	4443	AK102	(C10-C25)	12217213	62.5
C14	5.126	-0.003	5782	7745	AK103	(C25-C36)	83900022	839.2
C16	5.800	-0.007	18027	25221	OR.DIES	(C10-C28)	30254236	154.4
C18	6.428	-0.007	5074	5462				
C20	7.051	0.008	15134	10036				
C22	7.647	0.008	76708	26745				
C24	8.211	-0.004	290822	446061				
C25	8.490	-0.003	283476	98752				
C26	8.765	0.000	315420	126036				
C28	9.290	0.004	395912	118500				
C32	10.236	-0.006	661365	1079458				
C34	10.682	0.001	769683	230477				
Filter Peak	12.656	0.006	214849	128159	CREOSOT	(C12-C22)	2946608	755.4
C36	11.126	-0.002	688686	308098				
C38	11.646	-0.004	543124	322331				
C40	12.285	-0.004	325522	178450				
o-terph	6.653	-0.003	2619	2570				
Triacon Surr	9.786	-0.016	8421327	7592281	NAS DIES	(C10-C24)	9621264	49.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

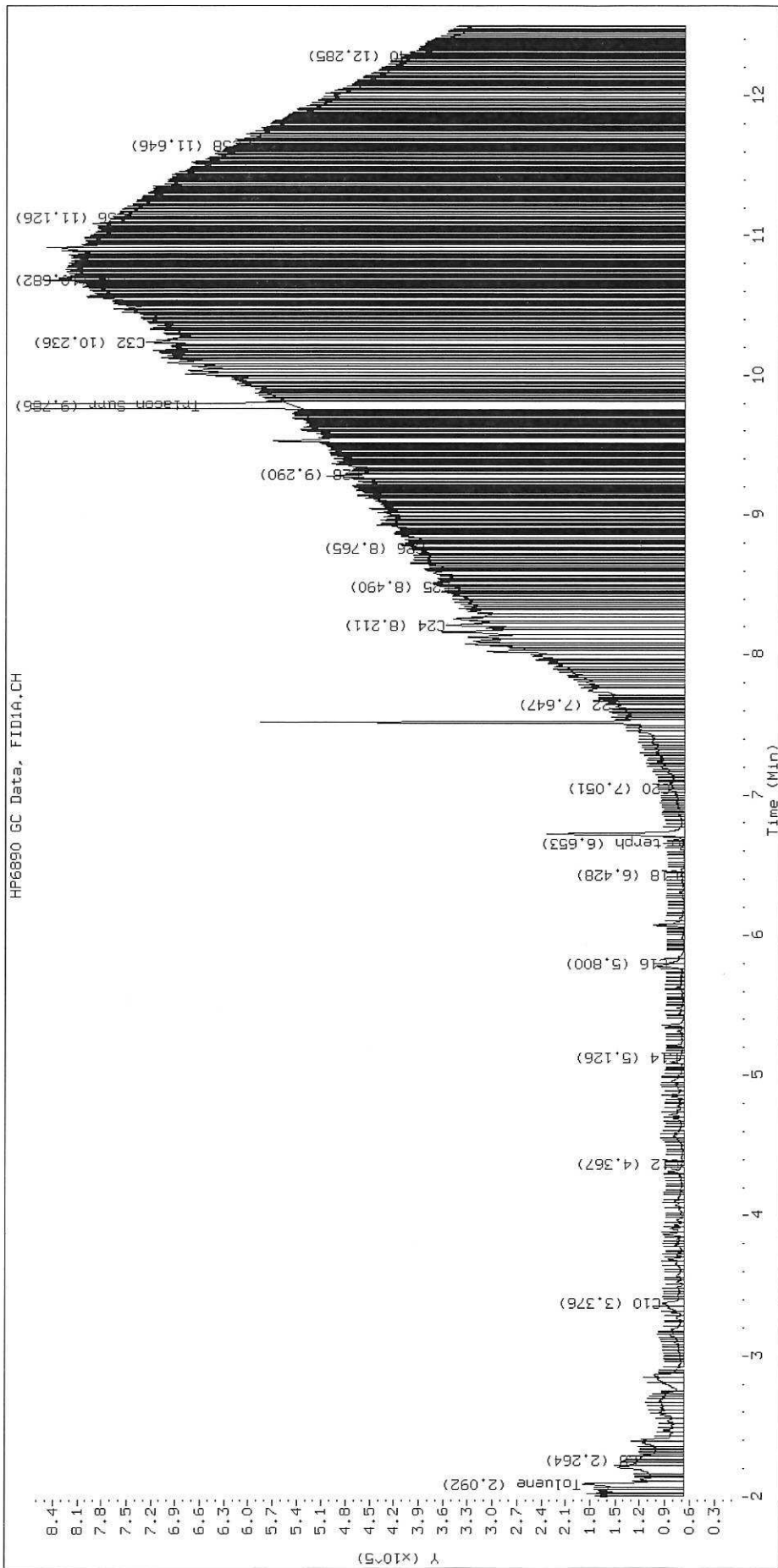
Surrogate	Area	Amount
o-Terphenyl	2570	0.0
Triacontane	7592281	42.7 M

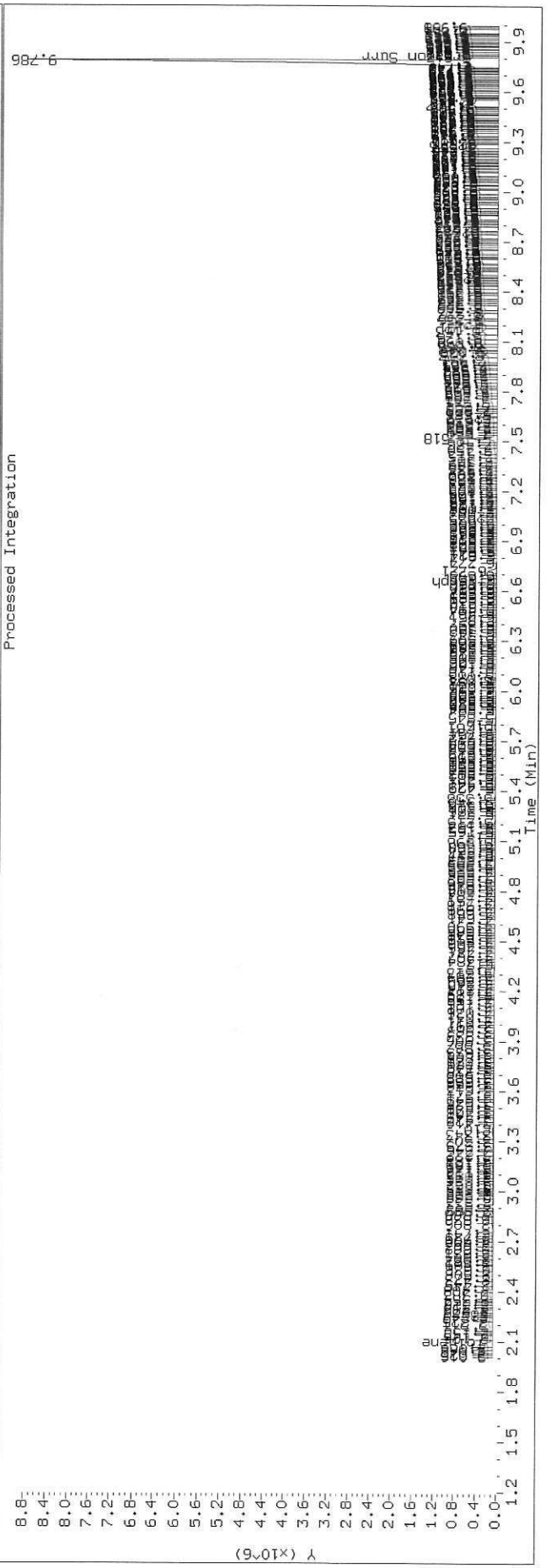
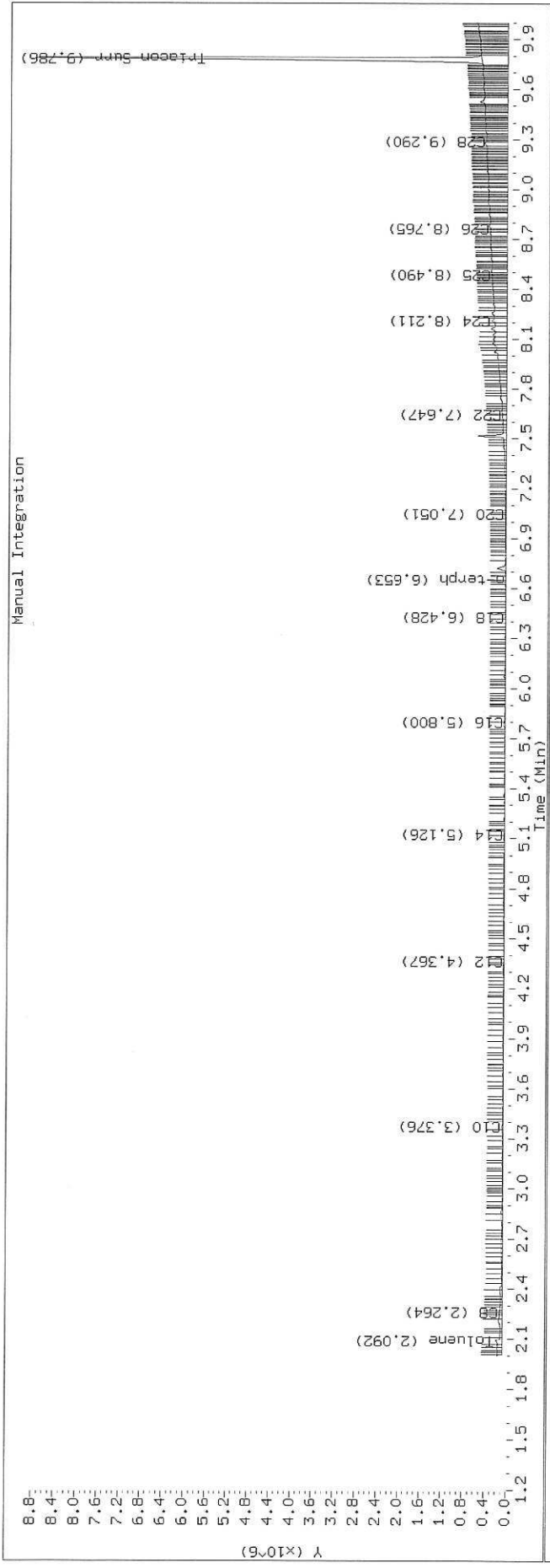
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2527.D SHJ0406-SCV3

HP6890 GC Data, FID1A.CH





Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191119.b/419K1907.D
Method: 20191119.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/20/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHK0260-ICV3
Client ID:
Injection: 19-NOV-2019 15:10
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.258	-0.008	251291	294712	WATPHD	(C12-C24)	42051010	263.9
C10	3.371	-0.003	4406335	3424876	WATPHM	(C24-C38)	496216	3.7
C12	4.346	-0.001	4634910	4478760	AK102	(C10-C25)	82254431	420.8
C14	5.126	-0.002	3015617	2044036	AK103	(C25-C36)	286196	2.9
C16	5.801	-0.005	604553	490104	OR.DIES	(C10-C28)	82288476	419.8
C18	6.426	-0.007	88855	83248				
C20	7.035	-0.006	27599	35934	JET-A	(C10-C18)	81259124	500.0
C22	7.631	-0.006	14833	25191				
C24	8.208	-0.005	6203	10027				
C25	8.490	-0.002	3298	4254				
C26	8.761	-0.002	1681	2107				
C28	9.291	0.006	225	122				
C32	10.242	0.000	1787	779				
C34	10.677	-0.003	4152	2235				
Filter Peak	12.648	0.002	7181	4285	CREOSOT	(C12-C22)	41927190	817.4
C36	11.126	0.000	5955	3830				
C38	11.639	-0.004	6373	4434				
C40	12.278	0.002	7499	4100				
o-terph	6.651	-0.002	16020002	16763037				
Triacon Surr	9.804	0.002	747	319	NAS DIES	(C10-C24)	82236143	421.4

Range Times: NW Diesel(4.346 - 8.213) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.64) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	16763037	81.9
Triacontane	319	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	51292.5	15-NOV-2019

Data File: \\target\share\chem2\fid4a.i\20191119.b\419K1907.D

Date: 19-NOV-2019 15:10

Client ID:

Sample Info: SHK0260-ICV3

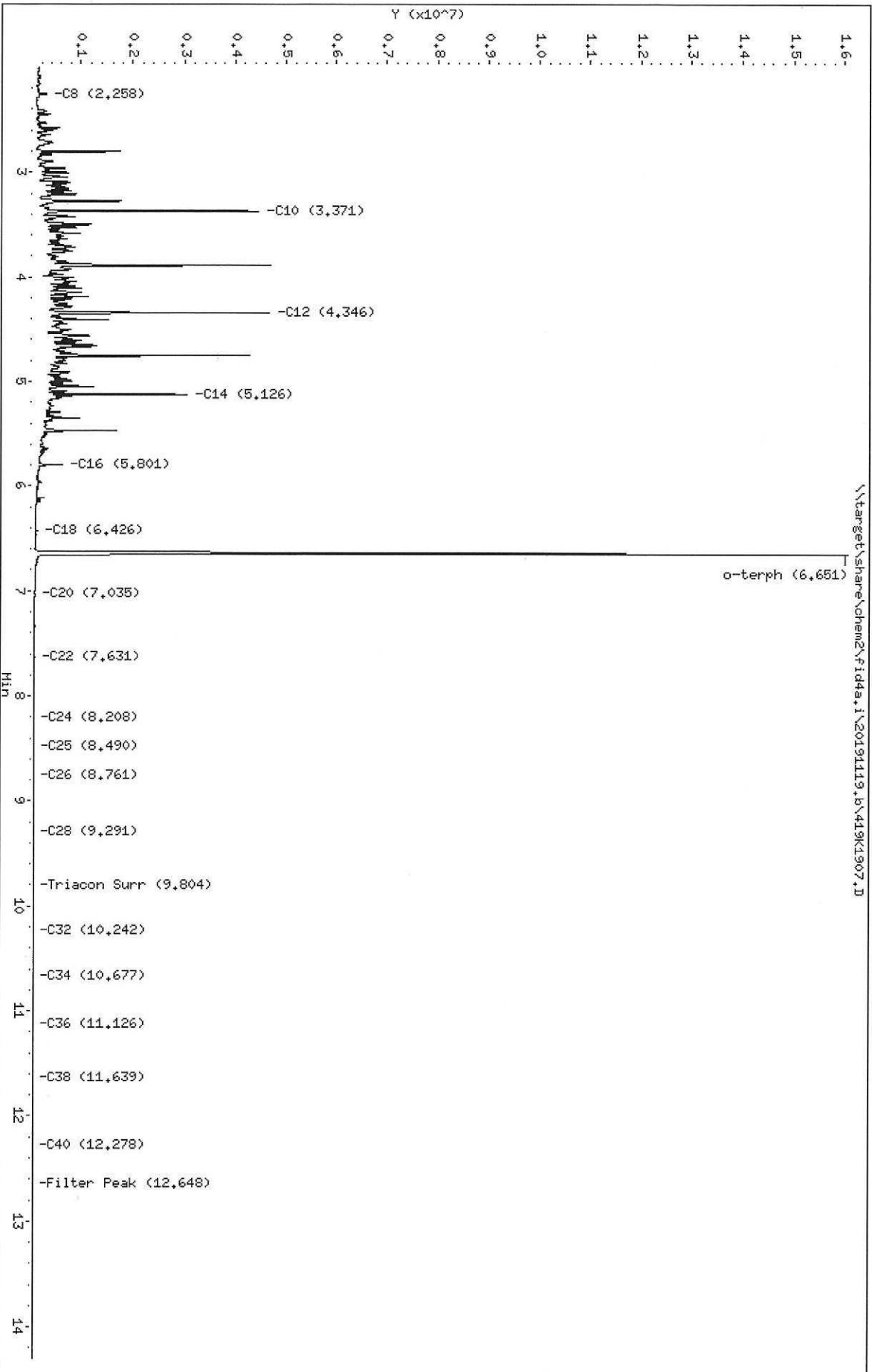
Column phase: RTX-1

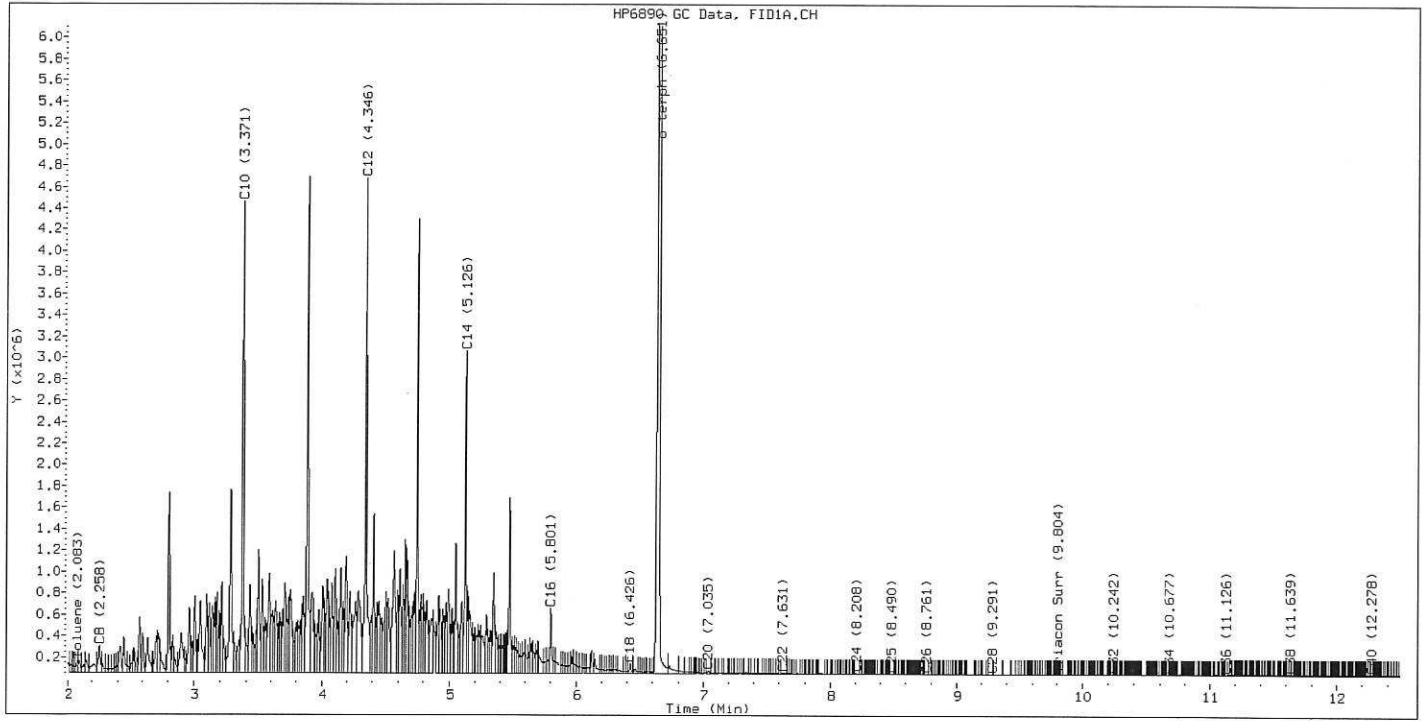
Instrument: fid4a.i

Operator: CT0

Column diameter: 0.25

Page 1







INITIAL CALIBRATION DATA NWTPH-Dx

Laboratory:	Analytical Resources, Inc.	SDG:	20J0121
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DA00022	Instrument:	FID4
Calibration Date:	10/25/2019	Column (1):	RTX-1

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Diesel Range Organics (C12-C24)	159336.7	7.4			RSD (20)	
Diesel Range Organics (C12-C24)	159336.7	7.4			RSD (20)	
Motor Oil Range Organics (C24-C38)	101166	4.8			RSD (20)	
o-Terphenyl	204701.9	1.9			RSD (20)	



ANALYSIS SEQUENCE

Printed: 10/30/2019 7:24:06AM

SHJ0406

Instrument: FID4 Element Column ID: G004925
Calibration ID: CJ00089

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-IBL1	Retention Time Standard	QC		1	H006806		
SHJ0406-IBL2	Instrument Blank	QC		2	H007457		
SHJ0406-CAL1	DIESEL 50	QC		3	H010495		
SHJ0406-CAL2	DIESEL 100	QC		4	H010496		
SHJ0406-CAL3	DIESEL 250	QC		5	H010497		
SHJ0406-CAL4	DIESEL 500	QC		6	H010498		
SHJ0406-CAL5	DIESEL 1000	QC		7	H010499		
SHJ0406-CAL6	DIESEL 2500	QC		8	H009367		
SHJ0406-SCV1	DIESEL SCV	QC		9	H008294		
SHJ0406-CAL7	MOIL 100	QC		10	H008395		
SHJ0406-CAL8	MOIL 250	QC		11	H008396		
SHJ0406-CAL9	MOIL 500	QC		12	H008397		
SHJ0406-CALA	MOIL 1000	QC		13	H007659		
SHJ0406-CALB	MOIL 2500	QC		14	H008398		
SHJ0406-CALC	MOIL 5000	QC		15	H007458		
SHJ0406-SCV2	MOIL SCV	QC		16	H008399		
SHJ0406-CALD	AK103 100	QC		17	H010478		
SHJ0406-CALE	AK103 250	QC		18	H010479		
SHJ0406-CALF	AK103 500	QC		19	H010480		
SHJ0406-CALG	AK103 1000	QC		20	H010481		
SHJ0406-CALH	AK103 2500	QC		21	H010482		
SHJ0406-CALI	AK103 5000	QC		22	H008608		



Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

Printed: 10/30/2019 7:24:06AM

SHJ0406

Instrument: FID4 Element Column ID: G004925
Calibration ID: CJ00089

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-SCV3	AK103 SCV	QC		23	H008400		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	25-OCT-2019 11:37	419J2501.D	1	RINSE	
2	25-OCT-2019 11:55	419J2502.D	1	RINSE	
3	25-OCT-2019 12:30	419J2503.D	1	RINSE	
4	25-OCT-2019 12:51	419J2504.D	1	RINSE	
5	25-OCT-2019 13:11	419J2505.D	1	SHJ0406-IBL1	
6	25-OCT-2019 13:31	419J2506.D	1	SHJ0406-IBL2	
7	25-OCT-2019 13:52	419J2507.D	1	SHJ0406-CAL1	
8	25-OCT-2019 14:12	419J2508.D	1	SHJ0406-CAL2	
9	25-OCT-2019 14:32	419J2509.D	1	SHJ0406-CAL3	
10	25-OCT-2019 14:53	419J2510.D	1	SHJ0406-CAL4	
11	25-OCT-2019 15:13	419J2511.D	1	SHJ0406-CAL5	
12	25-OCT-2019 15:32	419J2512.D	1	SHJ0406-CAL6	
13	25-OCT-2019 15:52	419J2513.D	1	SHJ0406-SCV1	
14	25-OCT-2019 16:12	419J2514.D	1	SHJ0406-CAL7	
15	25-OCT-2019 16:33	419J2515.D	1	SHJ0406-CAL8	
16	25-OCT-2019 16:53	419J2516.D	1	SHJ0406-CAL9	
17	25-OCT-2019 17:13	419J2517.D	1	SHJ0406-CALA	
18	25-OCT-2019 17:34	419J2518.D	1	SHJ0406-CALB	
19	25-OCT-2019 17:54	419J2519.D	1	SHJ0406-CALC	
20	25-OCT-2019 18:14	419J2520.D	1	SHJ0406-SCV2	
21	25-OCT-2019 18:35	419J2521.D	1	SHJ0406-CALD	
22	25-OCT-2019 18:55	419J2522.D	1	SHJ0406-CALE	
23	25-OCT-2019 19:15	419J2523.D	1	SHJ0406-CALF	
24	25-OCT-2019 19:34	419J2524.D	1	SHJ0406-CALG	
25	25-OCT-2019 19:54	419J2525.D	1	SHJ0406-CALH	
26	25-OCT-2019 20:15	419J2526.D	1	SHJ0406-CALI	
27	25-OCT-2019 20:35	419J2527.D	1	SHJ0406-SCV3	
28	25-OCT-2019 20:55	419J2528.D	1	SHJ0406-ICV1	
29	25-OCT-2019 21:16	419J2529.D	1	SHJ0406-ICV2	
30	25-OCT-2019 21:36	419J2530.D	1	BHJ0711-BLK1	
31	25-OCT-2019 21:56	419J2531.D	1	BHJ0711-BS1	
32	25-OCT-2019 22:16	419J2532.D	1	19J0373-01	
33	25-OCT-2019 22:35	419J2533.D	1	19J0373-02	
34	25-OCT-2019 22:55	419J2534.D	1	19J0373-03	
35	25-OCT-2019 23:16	419J2535.D	1	19J0373-04	
36	25-OCT-2019 23:36	419J2536.D	1	19J0373-05	
37	25-OCT-2019 23:57	419J2537.D	1	19J0373-06	
38	26-OCT-2019 00:17	419J2538.D	1	19J0373-07	
39	26-OCT-2019 00:37	419J2539.D	1	19J0373-08	
40	26-OCT-2019 00:58	419J2540.D	1	SHJ0406-CCV1	
41	26-OCT-2019 01:18	419J2541.D	1	SHJ0406-CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 25-OCT-2019

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1137	419J2501.D	RINSE		1	NO MANUAL INTEGRATION
1155	419J2502.D	RINSE		1	NO MANUAL INTEGRATION
1230	419J2503.D	RINSE		1	NO MANUAL INTEGRATION
1251	419J2504.D	RINSE		1	NO MANUAL INTEGRATION
1311	419J2505.D	SHJ0406-IBL1		1	NO MANUAL INTEGRATION
1331	419J2506.D	SHJ0406-IBL2		1	NO MANUAL INTEGRATION
1352	419J2507.D	SHJ0406-CAL1		1	NO MANUAL INTEGRATION
1412	419J2508.D	SHJ0406-CAL2		1	o-terph,
1432	419J2509.D	SHJ0406-CAL3		1	NO MANUAL INTEGRATION
1453	419J2510.D	SHJ0406-CAL4		1	o-terph,
1513	419J2511.D	SHJ0406-CAL5		1	o-terph,
1532	419J2512.D	SHJ0406-CAL6		1	o-terph,
1552	419J2513.D	SHJ0406-SCV1		1	NO MANUAL INTEGRATION
1612	419J2514.D	SHJ0406-CAL7		1	Triacon Surr,
1633	419J2515.D	SHJ0406-CAL8		1	Triacon Surr,
1653	419J2516.D	SHJ0406-CAL9		1	Triacon Surr,
1713	419J2517.D	SHJ0406-CALA		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
1734	419J2518.D	SHJ0406-CALB		1	Triacon Surr,
1754	419J2519.D	SHJ0406-CALC		1	Triacon Surr,
1814	419J2520.D	SHJ0406-SCV2		1	Triacon Surr,
1835	419J2521.D	SHJ0406-CALD		1	Triacon Surr,
1855	419J2522.D	SHJ0406-CALE		1	Triacon Surr,
1915	419J2523.D	SHJ0406-CALF		1	Triacon Surr,
1934	419J2524.D	SHJ0406-CALG		1	Triacon Surr,
1954	419J2525.D	SHJ0406-CALH		1	Triacon Surr,
2015	419J2526.D	SHJ0406-CALI		1	Triacon Surr,
2035	419J2527.D	SHJ0406-SCV3		1	Triacon Surr,
2055	419J2528.D	SHJ0406-ICV1		1	o-terph,
2116	419J2529.D	SHJ0406-ICV2		1	Triacon Surr,
2136	419J2530.D	BHJ0711-BLK1		1	NO MANUAL INTEGRATION
2156	419J2531.D	BHJ0711-BS1		1	o-terph,
2216	419J2532.D	19J0373-01		1	Triacon Surr,
2235	419J2533.D	19J0373-02		1	NO MANUAL INTEGRATION
2255	419J2534.D	19J0373-03		1	Triacon Surr,
2316	419J2535.D	19J0373-04		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

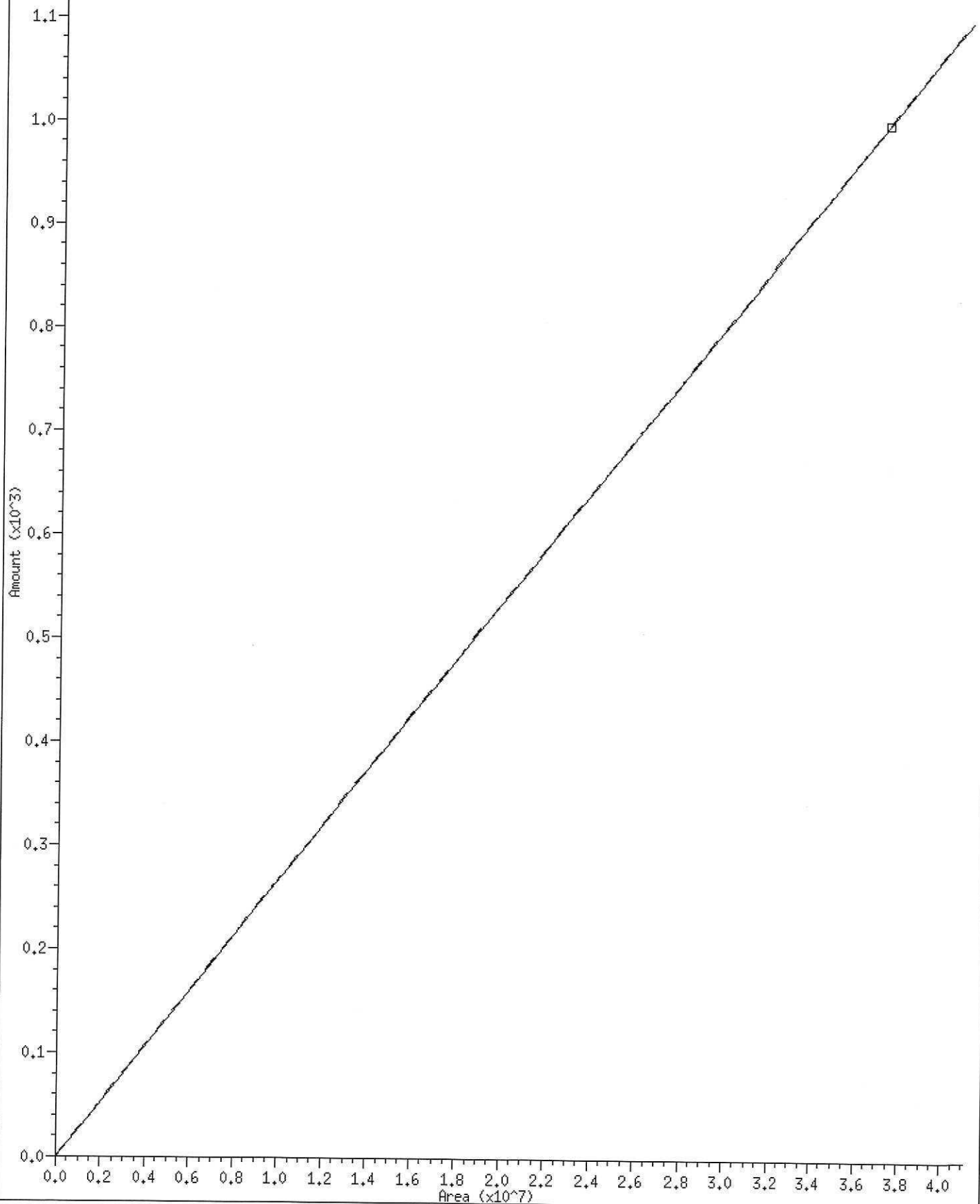
Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
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0017	419J2538.D	19J0373-07	1	Triacon Surr,	
0037	419J2539.D	19J0373-08	1	Triacon Surr,	
0058	419J2540.D	SHJ0406-CCV1	1	o-terph,	
0118	419J2541.D	SHJ0406-CCV2	1	Triacon Surr,	

Security Status Report

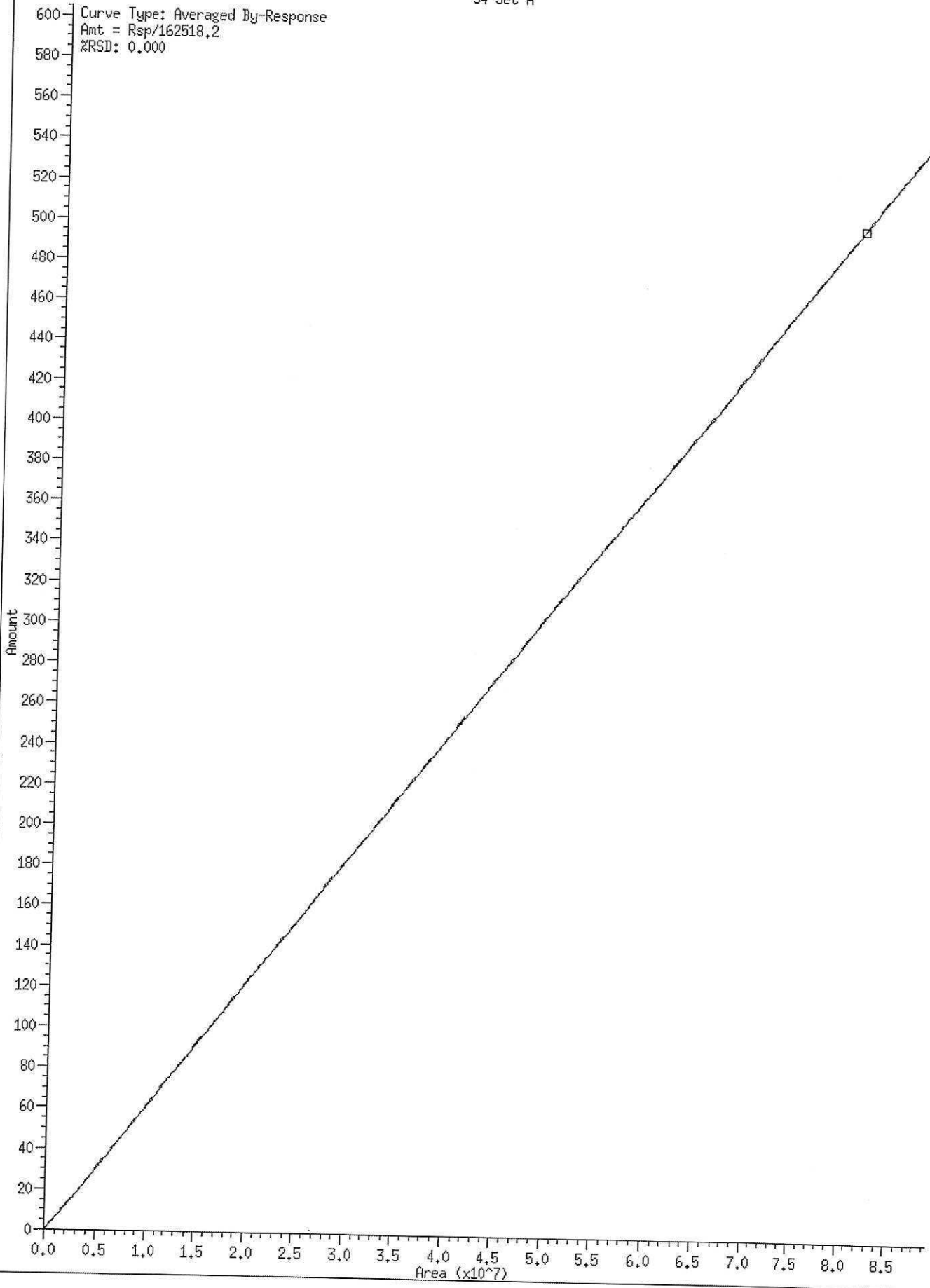
Date: 30-Oct-2019 07:25

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419J2509.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2510.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2511.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2512.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2513.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2514.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2515.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2516.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2517.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2518.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2519.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2520.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2521.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2522.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2523.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2524.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2525.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2526.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2527.D	Data Locked	j rains, 30-Oct-2019 07:20

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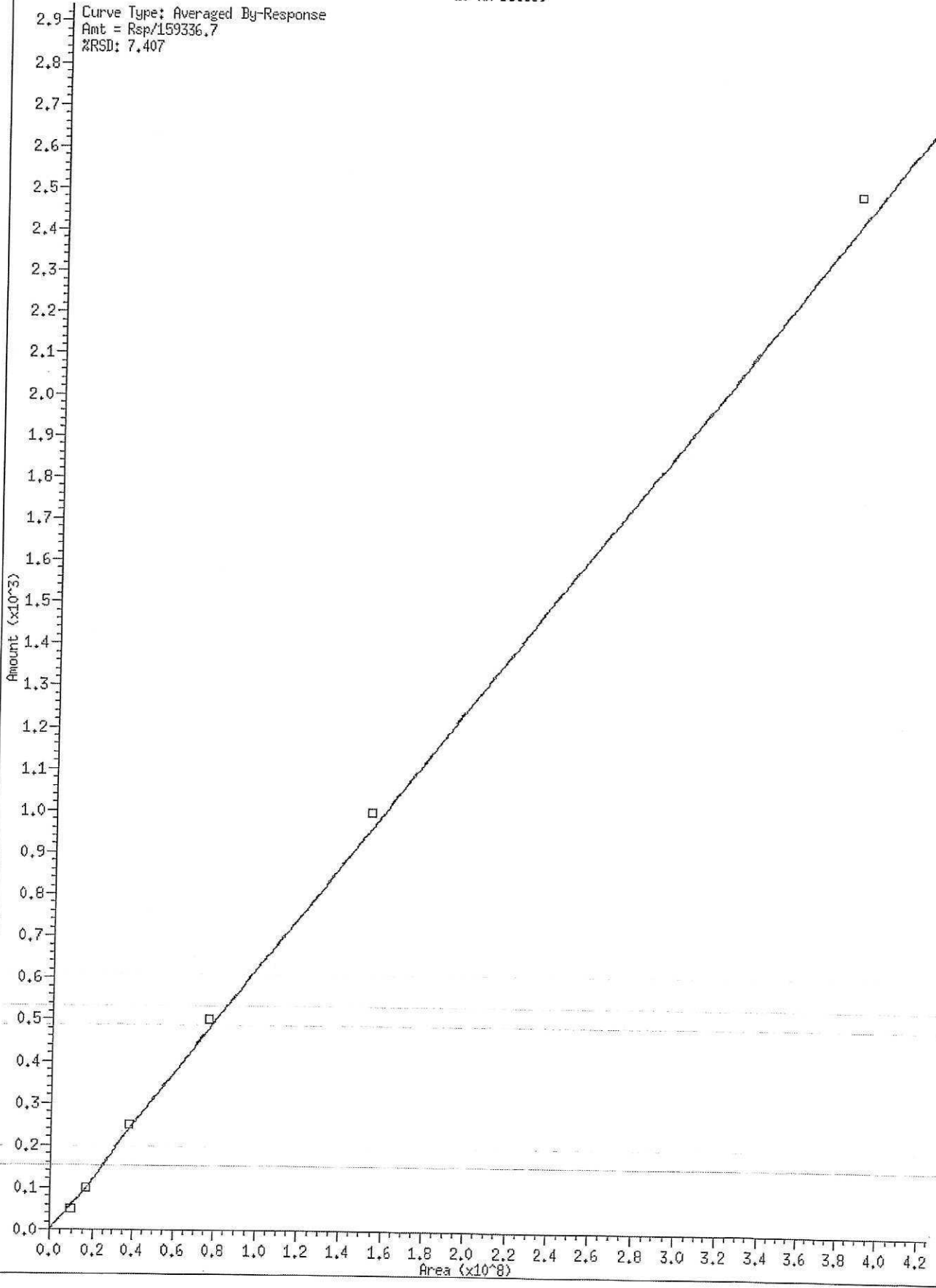


Curve Type: Averaged By-Response
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%RSD: 0.000



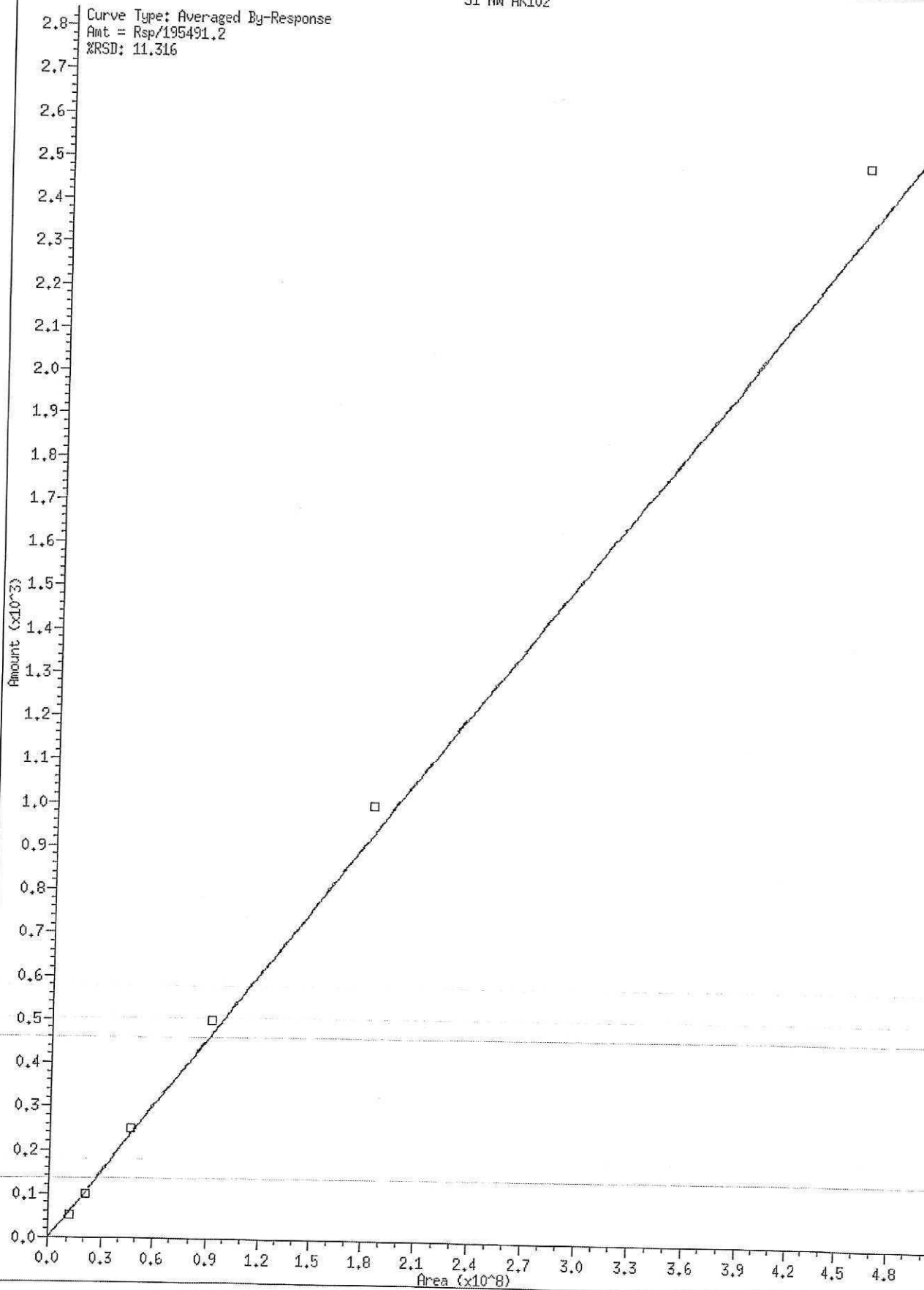
29 NM Diesel

Curve Type: Averaged By-Response
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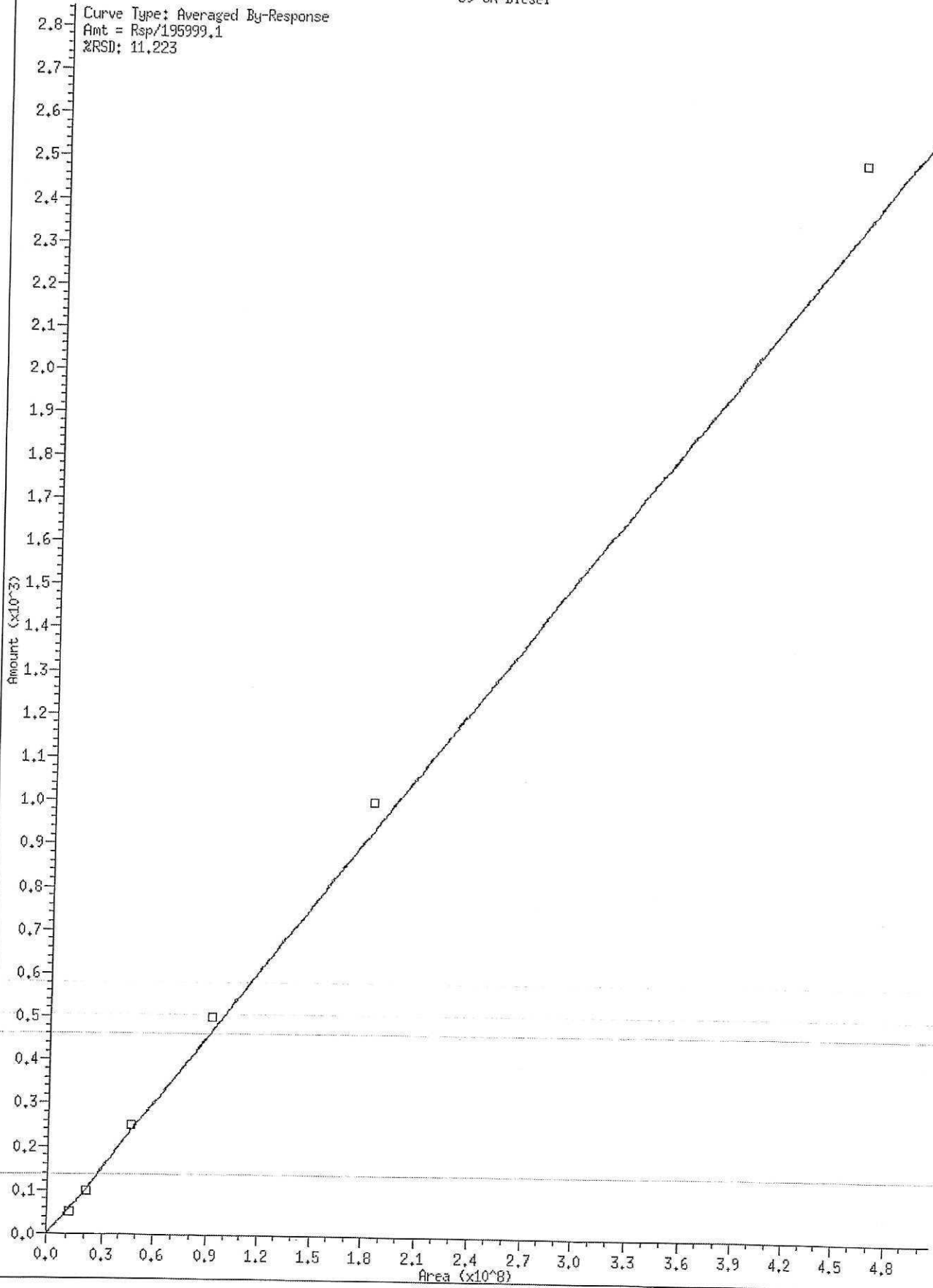
31 NW AK102

Curve Type: Averaged By-Response
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%RSD: 11.316



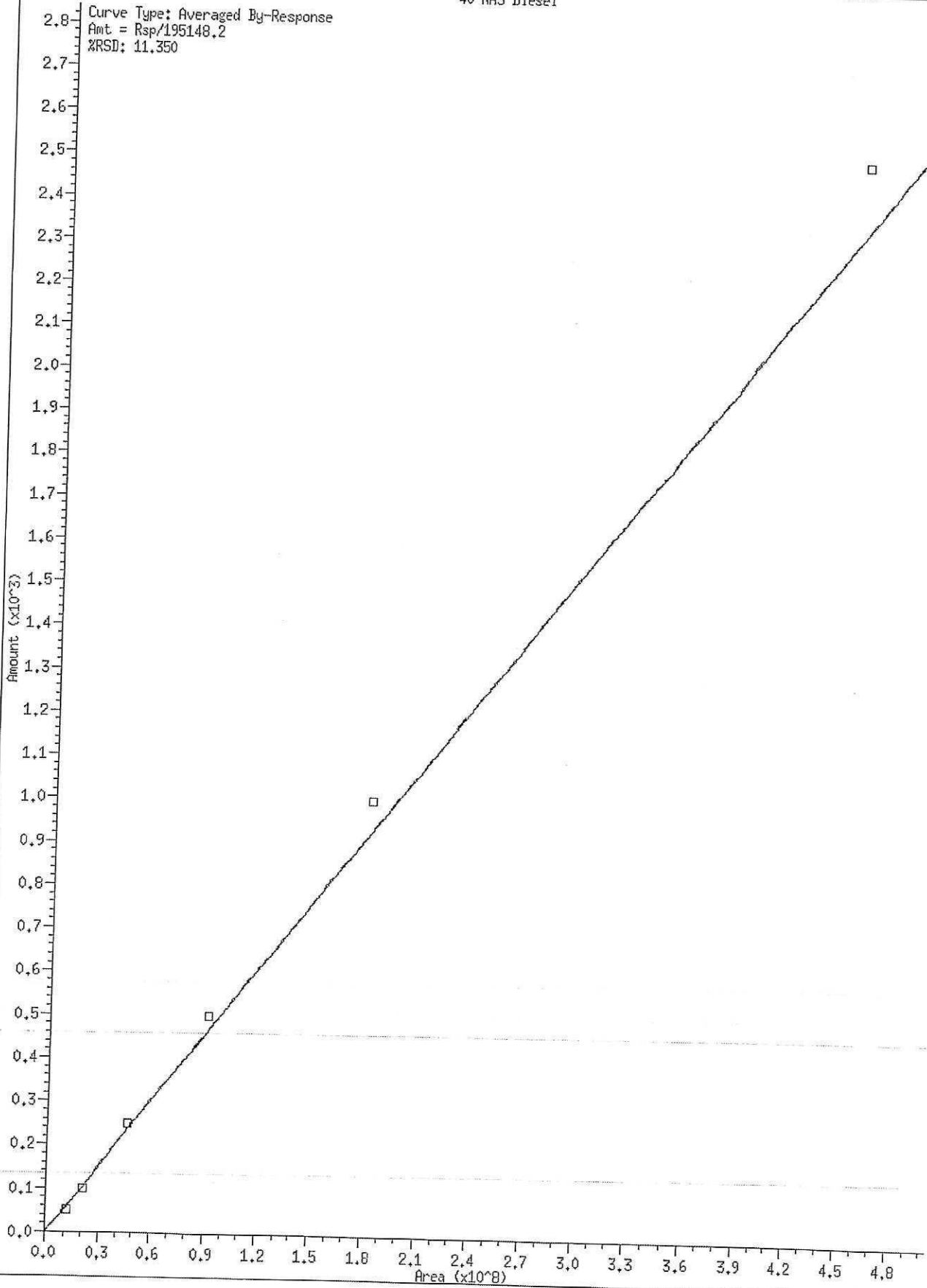
39 OR Diesel

Curve Type: Averaged By-Response
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%RSD: 11,223



40 MAS Diesel

Curve Type: Averaged By-Response
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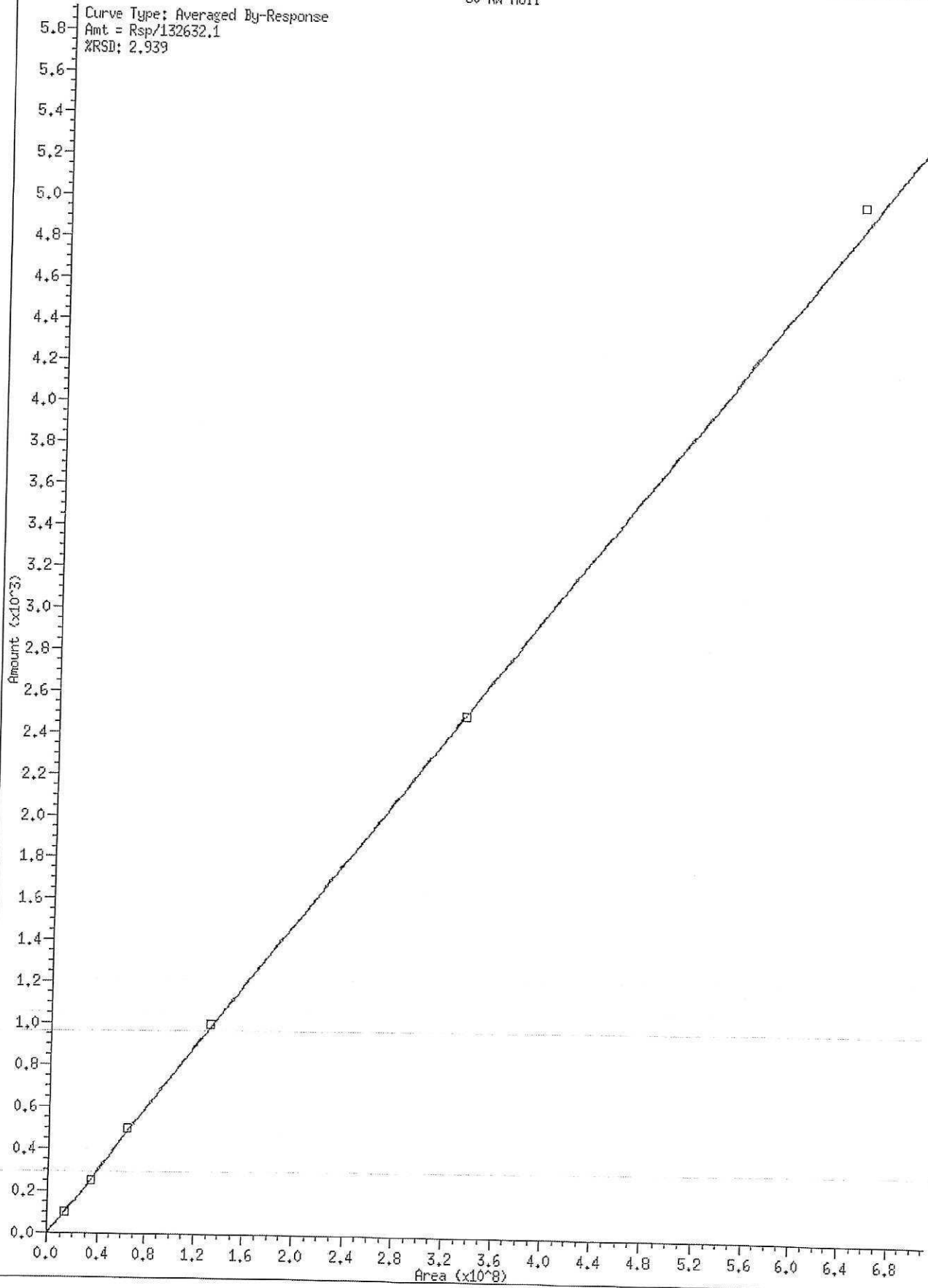


30 NM Moil

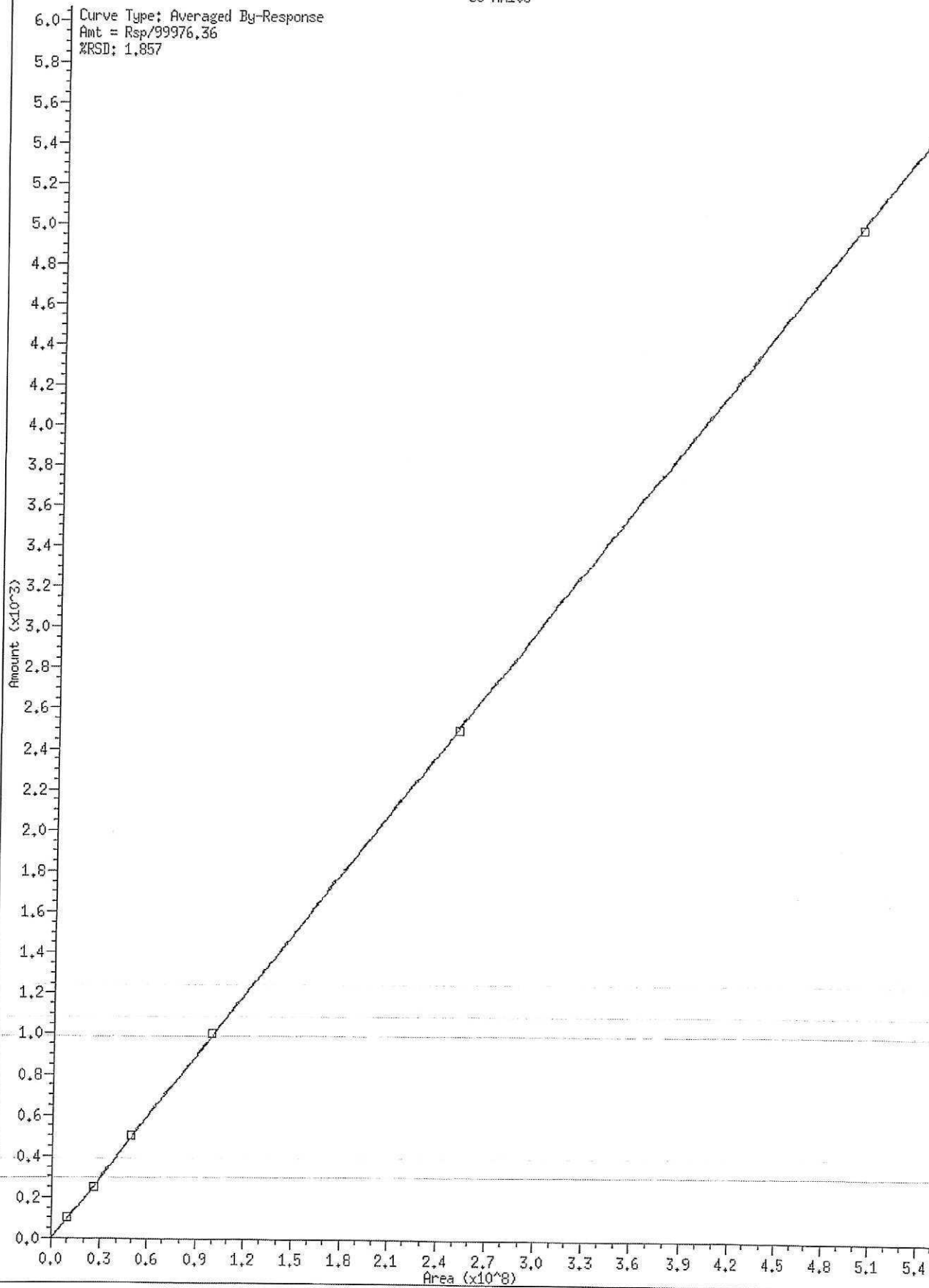
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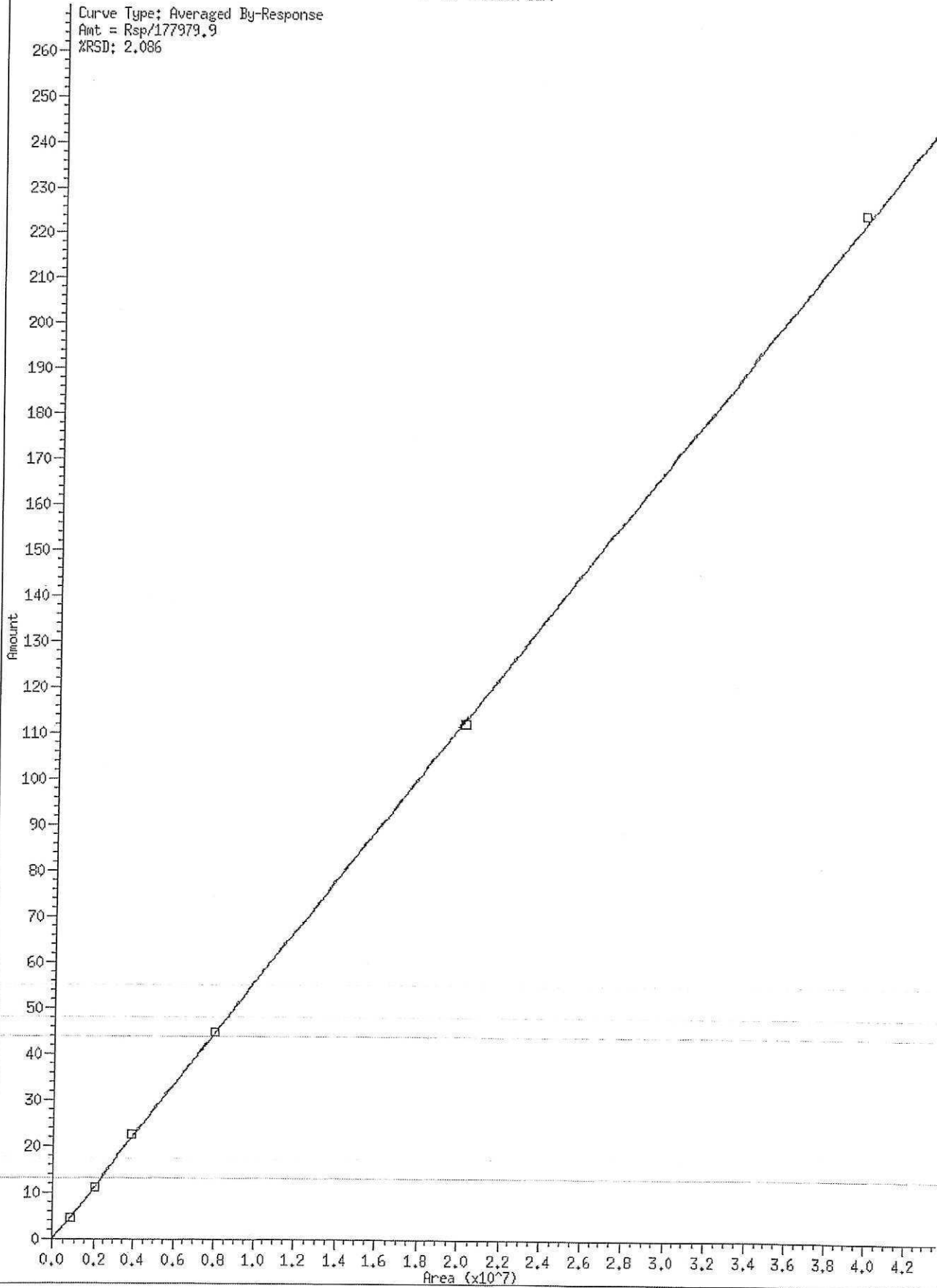


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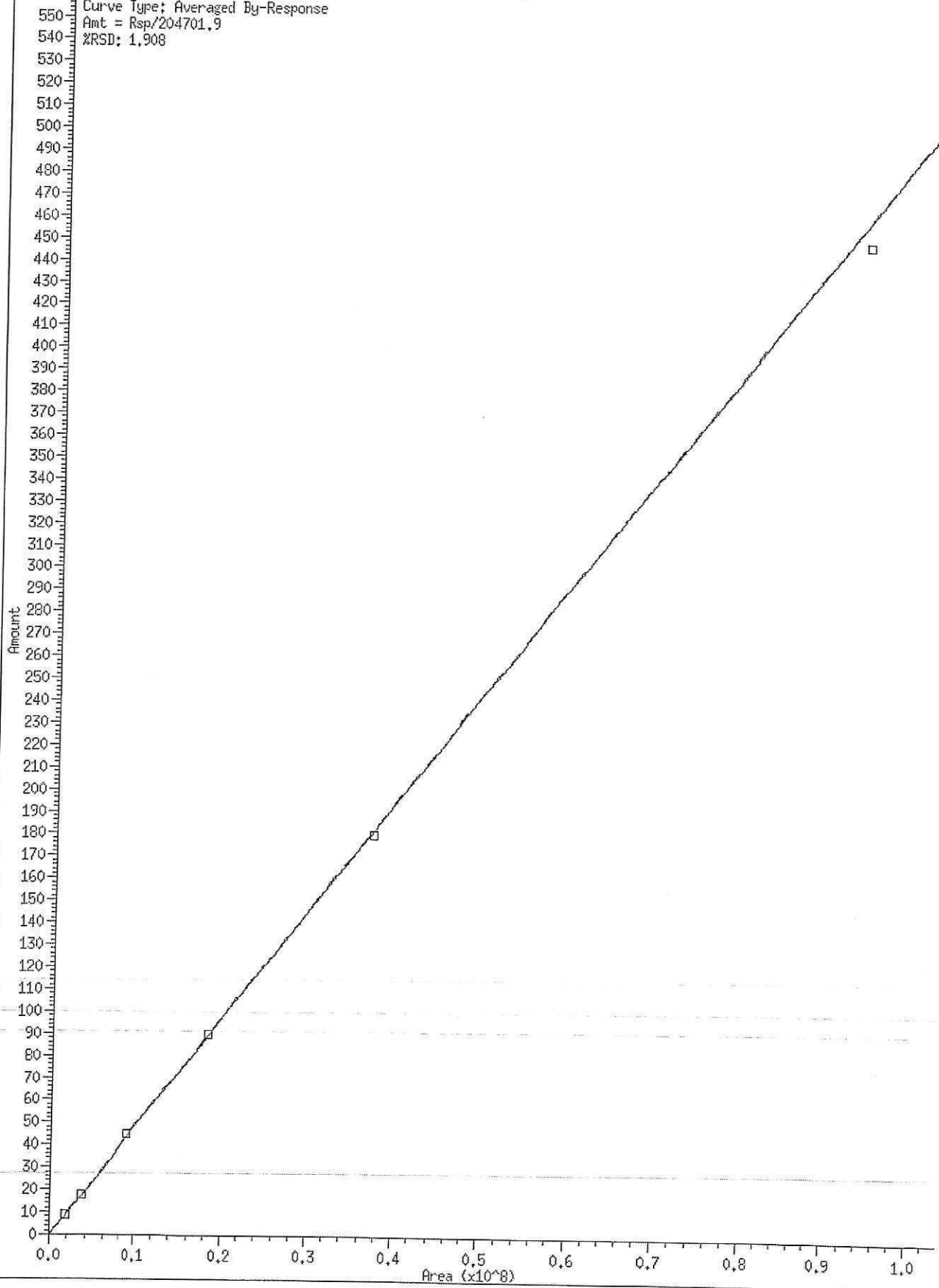
* 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/177979.9
%RSD: 2.086



* 8 o-terph

Curve Type: Averaged By-Response
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%RSD: 1,908



ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	419J2507	419J2508	419J2509	419J2510	419J2511	419J2512
INJ. DATE:	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019
INJ. TIME:	13:52	14:12	14:32	14:53	15:13	15:32

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	2.086	2.091	2.092	2.084	2.085	2.093	2.089	1.989-2.189	2.089	0.004
38 NewCpnd_31	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
35 Mineral Oil	++++	++++	++++	++++	++++	++++	1.015	0.965-1.065	++++	++++
41 Mineral Spirits	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
2 C8	2.263	2.252	2.253	2.254	2.254	2.254	2.262	2.162-2.362	2.255	0.004
3 C10	3.369	3.367	3.368	3.368	3.368	3.371	3.373	3.323-3.423	3.368	0.001
4 C12	4.344	4.344	4.344	4.344	4.346	4.351	4.347	4.297-4.397	4.345	0.003
5 C14	5.126	5.126	5.126	5.127	5.129	5.137	5.130	5.080-5.180	5.128	0.004
6 C16	5.803	5.802	5.803	5.805	5.809	5.818	5.807	5.757-5.857	5.807	0.006
7 C18	6.428	6.429	6.431	6.434	6.439	6.452	6.435	6.385-6.485	6.435	0.009
8 o-terph	6.636	6.640	6.646	6.655	6.669	6.696	6.656	6.606-6.706	6.657	0.023
9 C20	7.037	7.036	7.036	7.037	7.040	7.047	7.043	6.993-7.093	7.039	0.004
10 C22	7.633	7.631	7.631	7.631	7.633	7.637	7.639	7.589-7.689	7.633	0.002
11 C24	8.210	8.209	8.208	8.207	8.207	8.207	8.215	8.165-8.265	8.208	0.001
12 C25	8.494	8.489	8.488	8.485	8.486	8.485	8.493	8.443-8.543	8.488	0.003
13 C26	8.766	8.762	8.761	8.759	8.758	8.756	8.765	8.715-8.815	8.760	0.004
14 C28	9.292	9.288	9.287	9.281	9.279	9.279	9.285	9.235-9.335	9.284	0.005

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.808	9.805	9.803	9.798	9.806	9.800	9.802	9.752-9.852	9.803	0.004
16 C32	10.249	10.242	10.248	10.245	10.243	10.242	10.242	10.192-10.292	10.243	0.003
17 C34	10.682	10.678	10.683	10.684	10.687	10.677	10.681	10.631-10.731	10.682	0.004
18 Filter Peak	12.647	12.646	12.650	12.646	12.649	12.650	12.650	12.550-12.750	12.648	0.002
19 C36	11.130	11.127	11.127	11.131	11.127	11.129	11.129	11.079-11.179	11.128	0.002
20 C38	11.651	11.646	11.648	11.653	11.653	11.651	11.650	11.600-11.700	11.650	0.003
21 C40	12.289	12.291	12.292	12.287	12.283	12.288	12.289	12.239-12.339	12.288	0.003
29 NW Diesel	++++	++++	++++	++++	++++	++++	0.899	0.849-0.949	++++	++++
37 ACreosote	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
34 Jet A	++++	++++	++++	++++	++++	++++	1.024	0.974-1.074	++++	++++
30 NW MolI	++++	++++	++++	++++	++++	++++	0.885	0.835-0.935	++++	++++
31 NW AK102	++++	++++	++++	++++	++++	++++	0.803	0.753-0.853	++++	++++
32 Bunker C	++++	++++	++++	++++	++++	++++	0.812	0.762-0.862	++++	++++
33 AK103	++++	++++	++++	++++	++++	++++	1.344	1.294-1.394	++++	++++
36 ABunker C	++++	++++	++++	++++	++++	++++	0.985	0.935-1.035	++++	++++
39 OR Diesel	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
40 NAS Diesel	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	419J2514	419J2515	419J2516	419J2517	419J2518	419J2519
INJ. DATE:	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019	25-OCT-2019
INJ. TIME:	16:12	16:33	16:53	17:13	17:34	17:54

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Toluene	2.092	2.092	2.092	2.093	2.092	2.092	2.089	1.989-2.189	2.092	0.000
38 NewCpnd_31	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
35 Mineral Oil	++++	++++	++++	++++	++++	++++	1.015	0.965-1.065	++++	++++
41 Mineral Spirits	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
2 C8	2.263	2.262	2.263	2.263	2.250	2.251	2.262	2.162-2.362	2.259	0.007
3 C10	3.376	3.377	3.376	3.376	3.371	3.369	3.373	3.323-3.423	3.374	0.003
4 C12	4.368	4.332	4.334	4.333	4.343	4.344	4.347	4.297-4.397	4.342	0.014
5 C14	5.134	5.134	5.125	5.127	5.126	5.126	5.130	5.080-5.180	5.129	0.004
6 C16	5.805	5.808	5.805	5.803	5.802	5.802	5.807	5.757-5.857	5.804	0.002
7 C18	6.435	6.432	6.439	6.428	6.427	6.427	6.435	6.385-6.485	6.431	0.005
8 o-terph	6.651	6.657	6.659	6.633	6.655	6.656	6.656	6.606-6.706	6.652	0.009
9 C20	7.038	7.038	7.036	7.048	7.051	7.035	7.043	6.993-7.093	7.041	0.006
10 C22	7.642	7.644	7.632	7.632	7.632	7.633	7.639	7.589-7.689	7.636	0.005
11 C24	8.214	8.212	8.215	8.217	8.215	8.219	8.215	8.165-8.265	8.215	0.002
12 C25	8.500	8.497	8.500	8.495	8.491	8.490	8.493	8.443-8.543	8.495	0.004
13 C26	8.760	8.767	8.760	8.769	8.765	8.770	8.765	8.715-8.815	8.765	0.005
14 C28	9.288	9.294	9.277	9.280	9.285	9.281	9.285	9.235-9.335	9.284	0.006

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

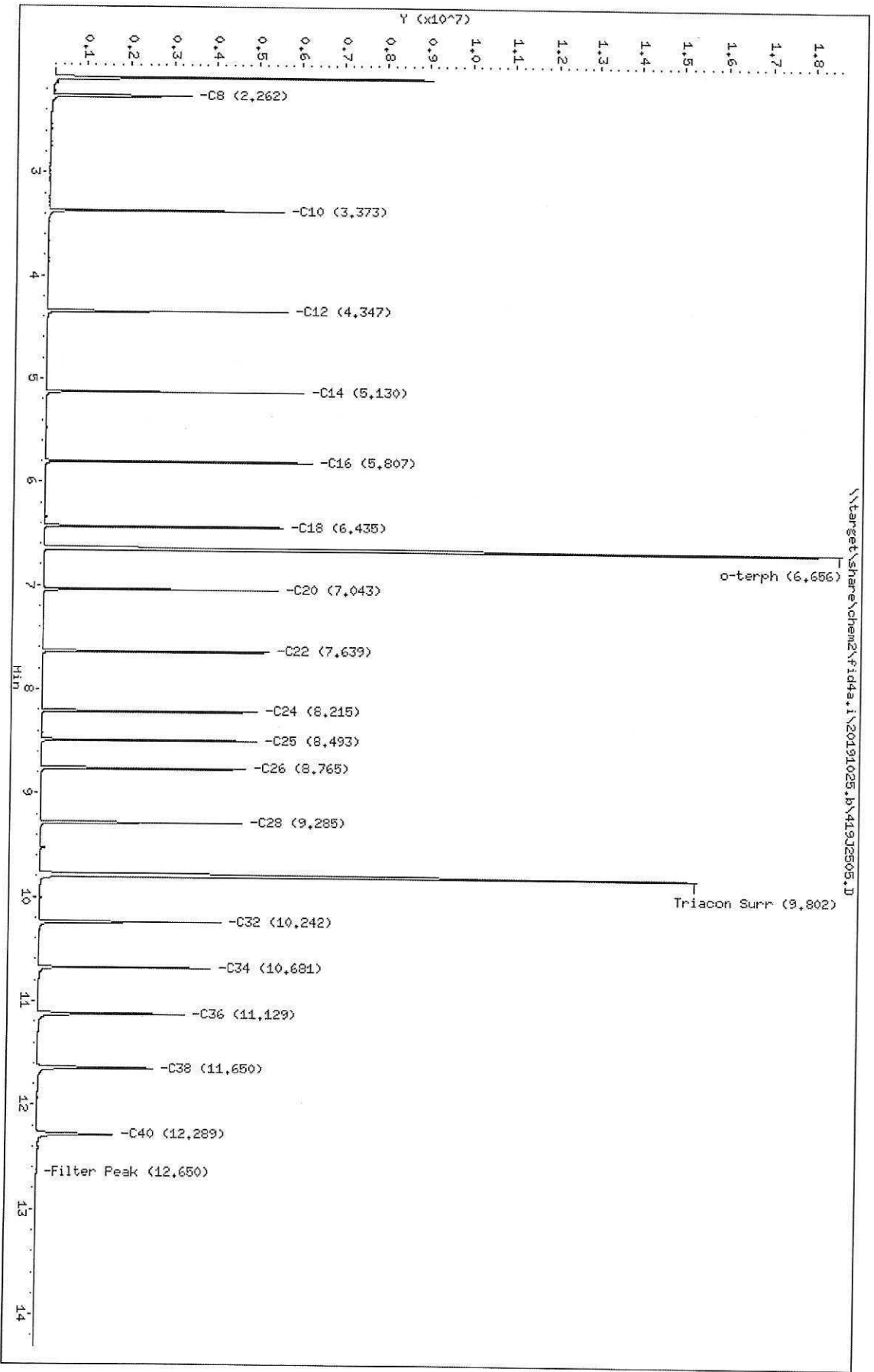
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid4a.i\20191025.b\FID4TPH.m
Batch File: \\target\share\chem2\fid4a.i\20191025.b
Inst ID: fid4a.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
15 Triacon Surr	9.771	9.775	9.781	9.790	9.809	9.836	9.802	9.752-9.852	9.794	0.025
16 C32	10.243	10.233	10.235	10.238	10.249	10.237	10.242	10.192-10.292	10.239	0.006
17 C34	10.679	10.680	10.682	10.681	10.679	10.683	10.681	10.631-10.731	10.681	0.002
18 Filter Peak	12.652	12.648	12.655	12.648	12.650	12.666	12.650	12.550-12.750	12.653	0.007
19 C36	11.126	11.134	11.129	11.132	11.125	11.132	11.129	11.079-11.179	11.129	0.004
20 C38	11.652	11.650	11.655	11.651	11.649	11.647	11.650	11.600-11.700	11.651	0.002
21 C40	12.297	12.292	12.291	12.291	12.289	12.283	12.289	12.239-12.339	12.291	0.005
29 NW Diesel	++++	++++	++++	++++	++++	++++	0.899	0.849-0.949	++++	++++
37 ACroosote	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
34 Jet A	++++	++++	++++	++++	++++	++++	1.024	0.974-1.074	++++	++++
30 NW Moil	++++	++++	++++	++++	++++	++++	0.885	0.835-0.935	++++	++++
31 NW AK102	++++	++++	++++	++++	++++	++++	0.803	0.753-0.853	++++	++++
32 Bunker C	++++	++++	++++	++++	++++	++++	0.812	0.762-0.862	++++	++++
33 AK103	++++	++++	++++	++++	++++	++++	1.344	1.294-1.394	++++	++++
36 ABunker C	++++	++++	++++	++++	++++	++++	0.985	0.935-1.035	++++	++++
39 OR Diesel	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
40 NAS Diesel	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++

Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2505.D
Date : 25-OCT-2019 13:11
Client ID:
Sample Info: SHJ0406-1BL1
Column Phase: RTX-1

Instrument: fid4a.i
Operator: CTG/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2505.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-IBL1
Client ID:
Injection: 25-OCT-2019 13:11
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.262	0.000	3356579	3932199	WATPHD	(C12-C24)	22628592	142.0
C10	3.373	0.000	5539104	3757340	WATPHM	(C24-C38)	26475519	199.6
C12	4.347	0.000	5663708	3683615	AK102	(C10-C25)	30812271	157.6
C14	5.130	0.000	6079967	3652238	AK103	(C25-C36)	22405219	224.1
C16	5.807	0.000	6277766	3707382	OR.DIES	(C10-C28)	41957167	214.1
C18	6.435	0.000	5635635	3612752				
C20	7.043	0.000	5539938	3702605				
C22	7.639	0.000	5339005	3727404				
C24	8.215	0.000	5097157	3674684				
C25	8.493	0.000	5111690	3698652				
C26	8.765	0.000	4851792	3662117				
C28	9.285	0.000	4782484	3718632				
C32	10.242	0.000	4326930	3643795				
C34	10.681	0.000	4092240	3584940				
Filter Peak	12.650	0.000	16931	63954	CREOSOT	(C12-C22)	18936204	4854.3
C36	11.129	0.000	3493562	3625484				
C38	11.650	0.000	2741525	3745220				
C40	12.289	0.000	1889635	2977724				
o-terph	6.656	0.000	18648694	20337624				
Triacon Surr	9.802	0.000	15433087	21196653	NAS DIES	(C10-C24)	30787335	157.8

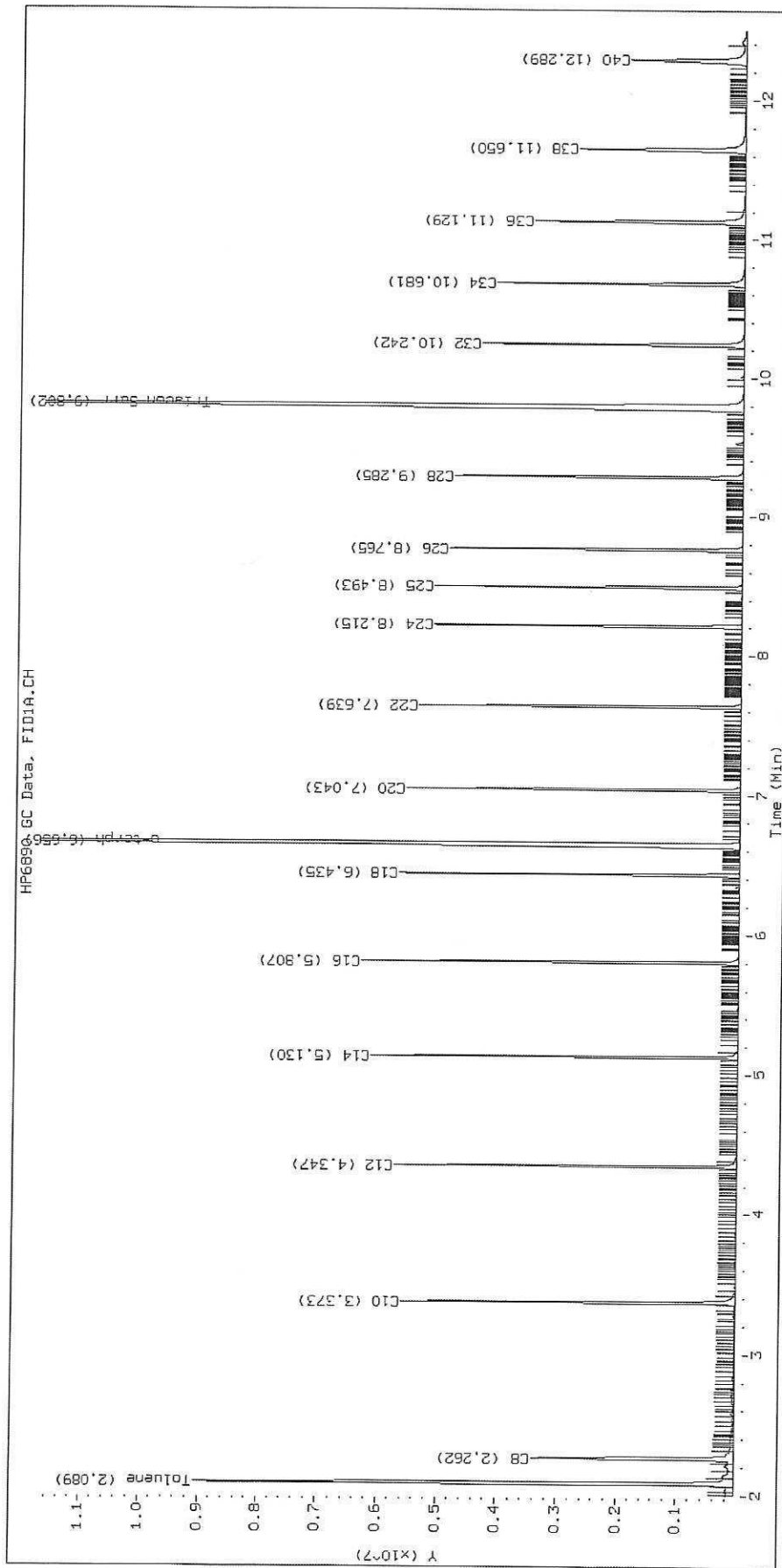
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	20337624	99.4
Triacantane	21196653	119.1

M Indicates the peak was manually integrated

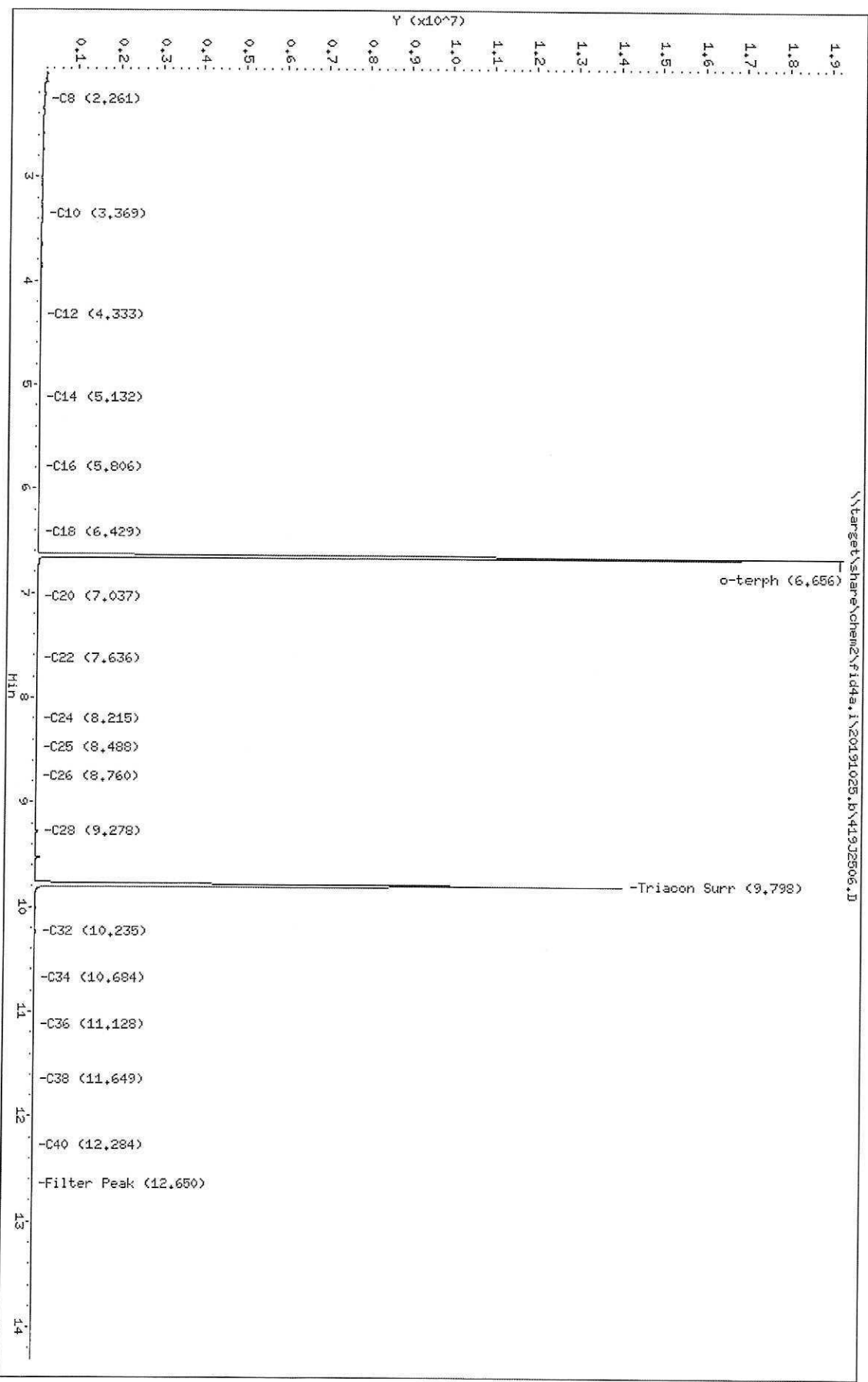
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419JZ505.D SHJ0406-IBL1



Data File: \\target\share\chem2\fid4a.i\20191025.B\419J2506.D
 Date : 25-OCT-2019 13:31
 Client ID:
 Sample Info: SHJ0406-IBL2
 Column Phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2506.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-IBL2
Client ID:
Injection: 25-OCT-2019 13:31
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.261	-0.001	72509	76139	WATPHD	(C12-C24)	658319	4.1
C10	3.369	-0.004	30567	51207	WATPHM	(C24-C38)	758430	5.7
C12	4.333	-0.014	10639	19318	AK102	(C10-C25)	1520072	7.8
C14	5.132	0.003	5359	3169	AK103	(C25-C36)	566941	5.7
C16	5.806	-0.002	4115	5242	OR.DIES	(C10-C28)	1655230	8.4
C18	6.429	-0.006	2667	2060				
C20	7.037	-0.006	2150	2136				
C22	7.636	-0.002	7003	7700				
C24	8.215	0.000	1821	532				
C25	8.488	-0.005	1855	1750				
C26	8.760	-0.005	1926	1661				
C28	9.278	-0.007	68571	64137				
C32	10.235	-0.007	43108	83259				
C34	10.684	0.003	2246	1101				
Filter Peak	12.650	-0.001	8815	2632	CREOSOT	(C12-C22)	608888	156.1
C36	11.128	-0.001	4708	2306				
C38	11.649	-0.001	6915	2738				
C40	12.284	-0.005	8323	7406				
o-terph	6.656	-0.001	19264239	20580998				
Triacon Surr	9.798	-0.004	14079902	17993211	NAS DIES	(C10-C24)	1505820	7.7

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	20580998	100.5
Triacontane	17993211	101.1

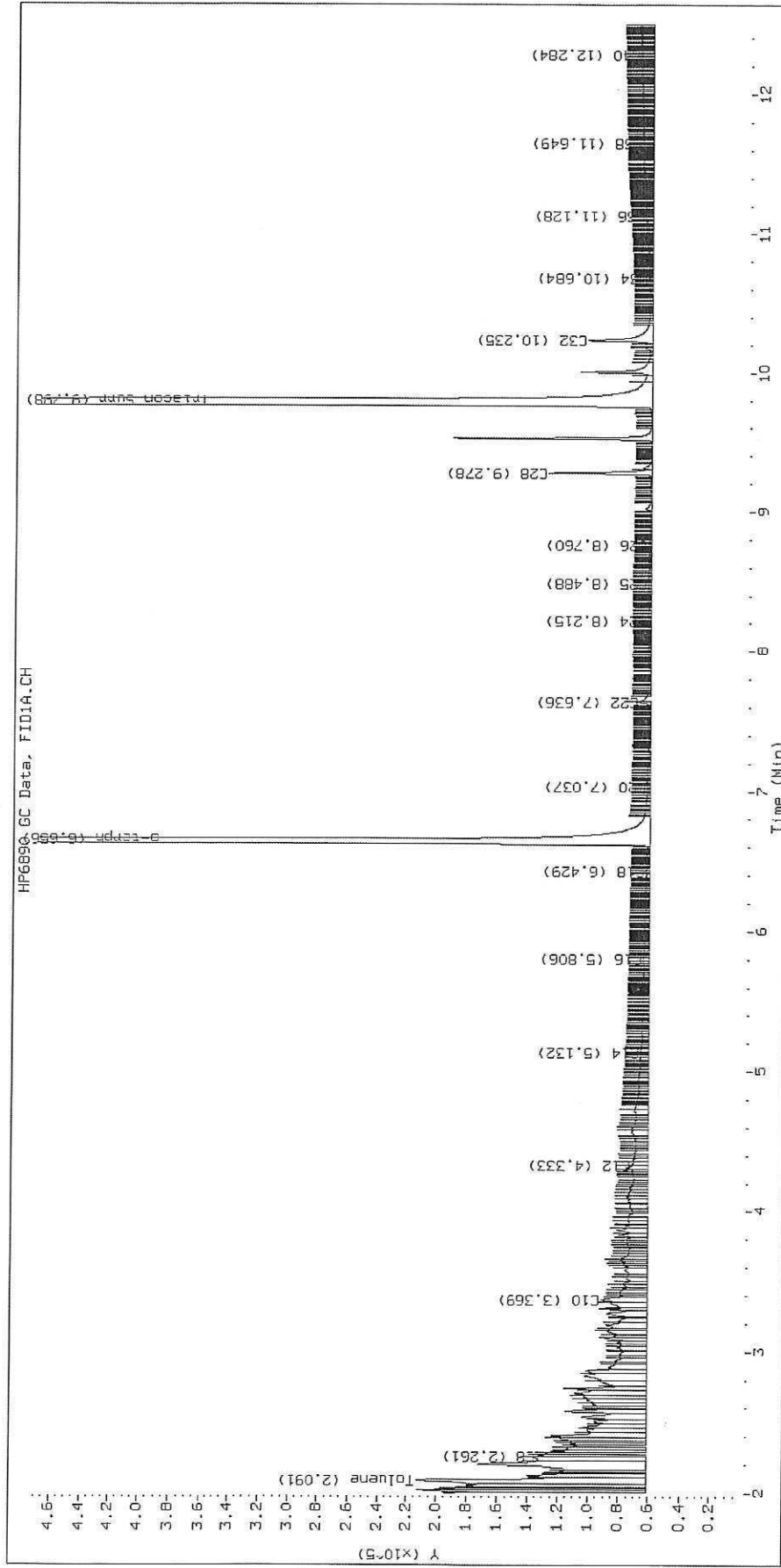
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2506.D

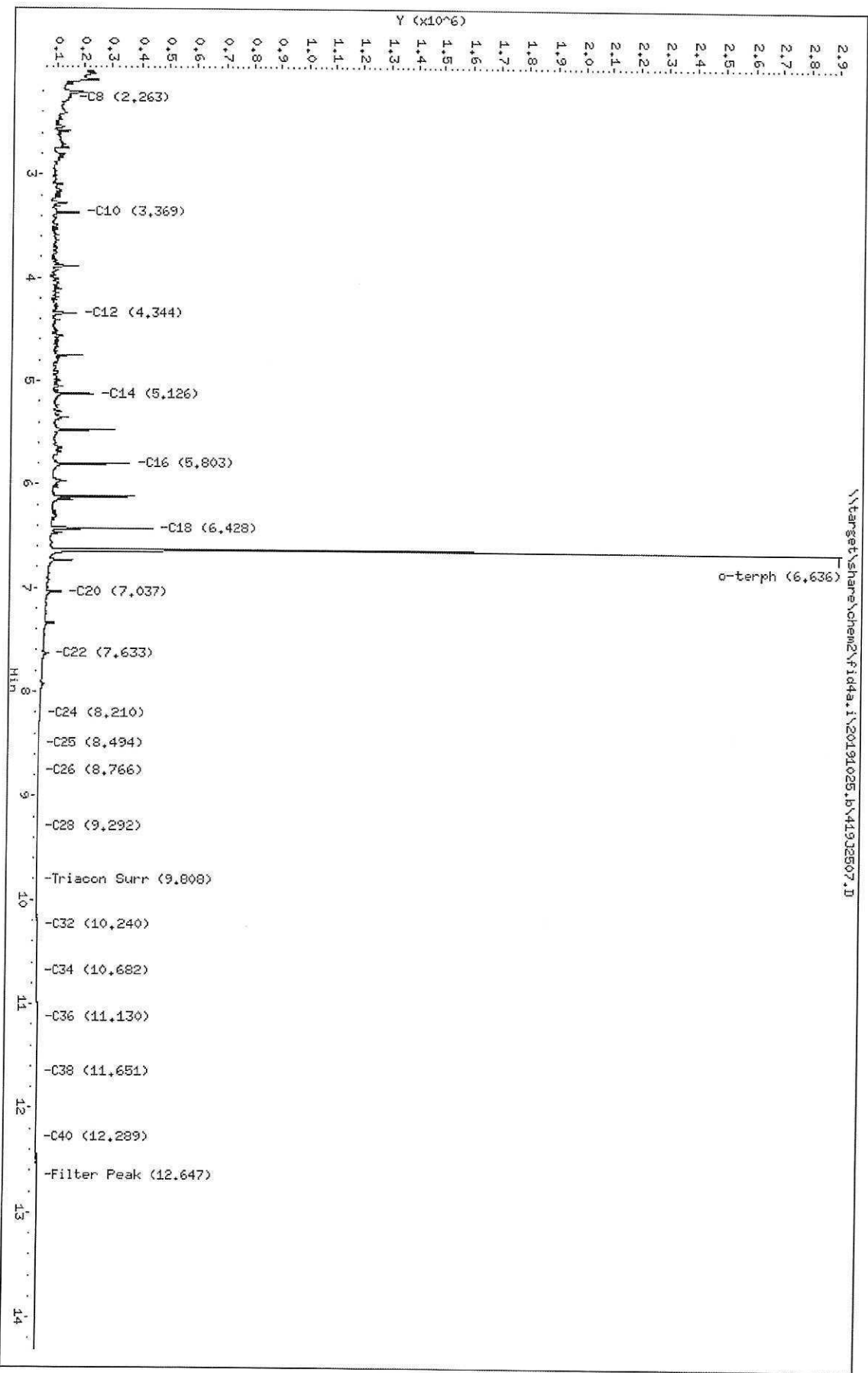
SHJ0406-IBL2

HP6890 GC Data, FID1A.CH



Data File: \\Narset\share\chem2\fid4a.i\20191025.b\419J2507.D
 Date: 25-OCT-2019 13:52
 Client ID:
 Sample Info: SHJ0406-CAL1
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTU/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2507.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL1
Client ID:
Injection: 25-OCT-2019 13:52
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	94181	68499	WATPHD	(C12-C24)	9105717	57.1
C10	3.369	-0.004	130777	159818	WATPHM	(C24-C38)	651398	4.9
C12	4.344	-0.003	124752	202412	AK102	(C10-C25)	11867629	60.7
C14	5.126	-0.003	188715	181186	AK103	(C25-C36)	363608	3.6
C16	5.803	-0.004	314329	331178	OR.DIES	(C10-C28)	11884580	60.6
C18	6.428	-0.007	400639	334718				
C20	7.037	-0.006	83282	126537				
C22	7.633	-0.006	34959	59242				
C24	8.210	-0.005	6227	12090				
C25	8.494	0.001	1850	2300				
C26	8.766	0.001	428	167				
C28	9.292	0.007	424	156				
C32	10.240	-0.002	2740	1341				
C34	10.682	0.001	5209	2827				
Filter Peak	12.647	-0.003	12268	7963	CREOSOT	(C12-C22)	8913896	2285.1
C36	11.130	0.001	8291	3309				
C38	11.651	0.001	10488	3653				
C40	12.289	0.000	11687	5838				
o-terph	6.636	-0.021	2823547	1865140				
Triacon Surr	9.808	0.006	1874	1287	NAS DIES	(C10-C24)	11851657	60.7

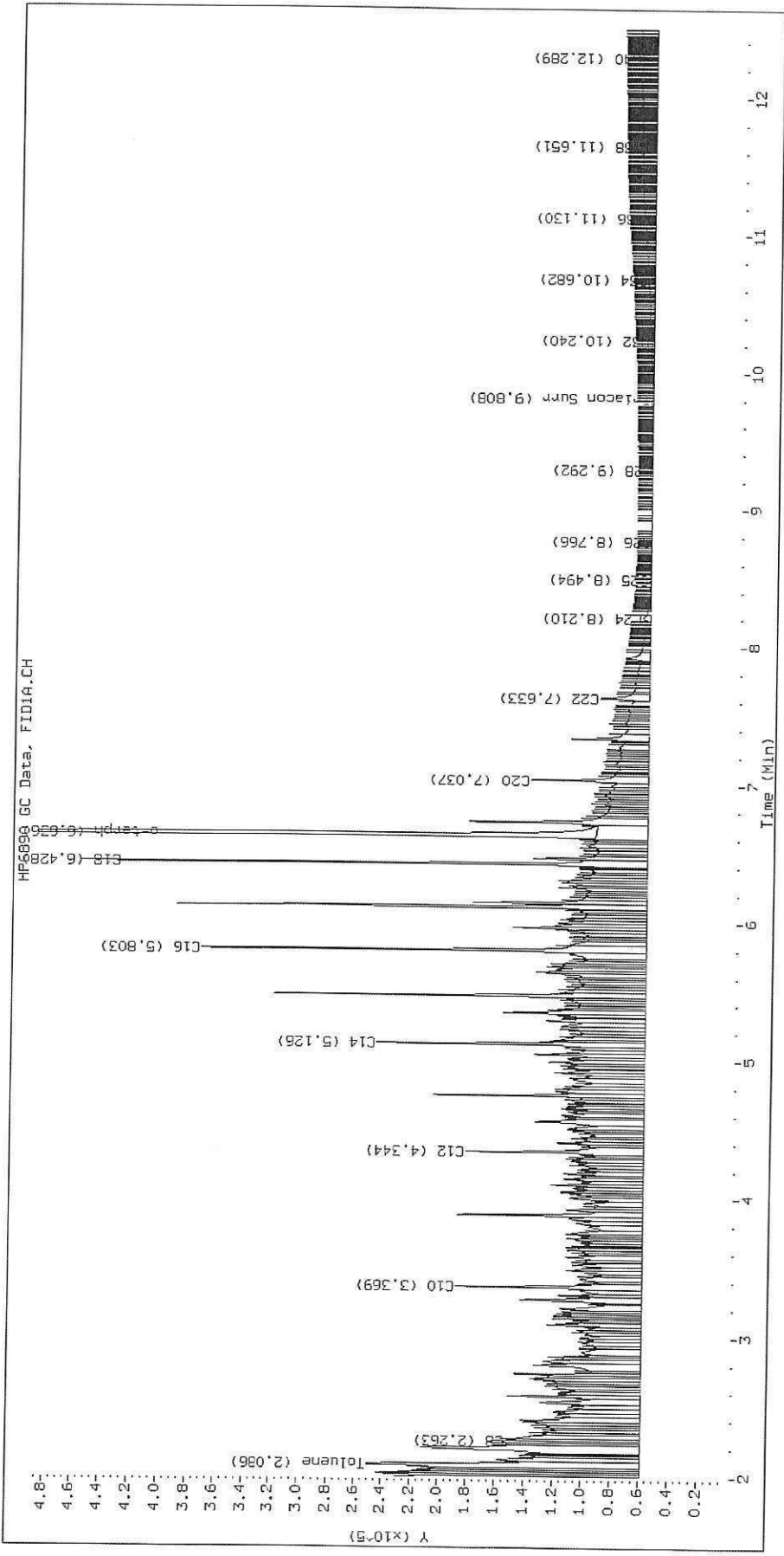
Range Times: NW Diesel (4.347 - 8.215) AK102 (3.37 - 8.49) Jet A (3.37 - 6.43)
NW M.Oil (8.21 - 11.65) AK103 (8.49 - 11.13) OR Diesel (3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	1865140	9.1
Triacotane	1287	0.0

M Indicates the peak was manually integrated

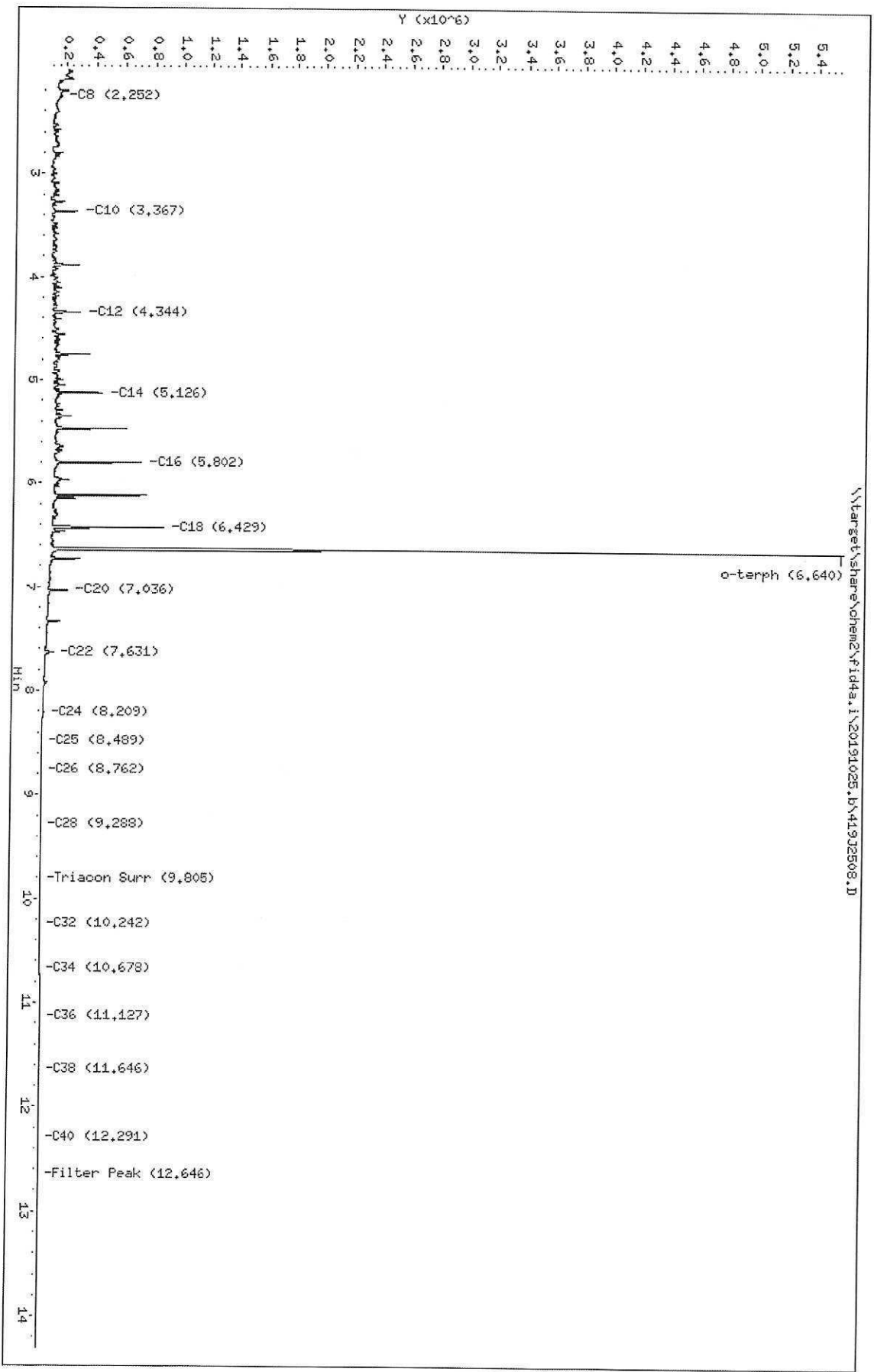
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2507.D SHJ0406-CALI



Data File: \\target\share\chem2\fid4a.i\20191025.B\419J2508.D
Date : 25-OCT-2019 14:12
Client ID:
Sample Info: SHJ0406-CAL2
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2508.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL2
Client ID:
Injection: 25-OCT-2019 14:12
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.252	-0.010	100789	199426	WATPHD	(C12-C24)	16216844	101.8
C10	3.367	-0.006	219354	239129	WATPHM	(C24-C38)	605463	4.6
C12	4.344	-0.003	250355	355289	AK102	(C10-C25)	20356499	104.1
C14	5.126	-0.004	400436	340538	AK103	(C25-C36)	329685	3.3
C16	5.802	-0.005	670430	513156	OR.DIES	(C10-C28)	20386032	104.0
C18	6.429	-0.006	830433	585845				
C20	7.036	-0.007	189557	206229				
C22	7.631	-0.007	81567	107164				
C24	8.209	-0.006	13975	32117				
C25	8.489	-0.004	4286	7117				
C26	8.762	-0.002	1237	1115				
C28	9.288	0.003	364	105				
C32	10.242	0.000	2184	855				
C34	10.678	-0.003	4506	5051				
Filter Peak	12.646	-0.005	11019	4947	CREOSOT	(C12-C22)	15825625	4056.9
C36	11.127	-0.002	7155	1771				
C38	11.646	-0.004	9240	6899				
C40	12.291	0.002	10430	5163				
o-terph	6.640	-0.017	5468385	3642280				
Triacon Surr	9.805	0.003	1078	368	NAS DIES	(C10-C24)	20331247	104.2

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

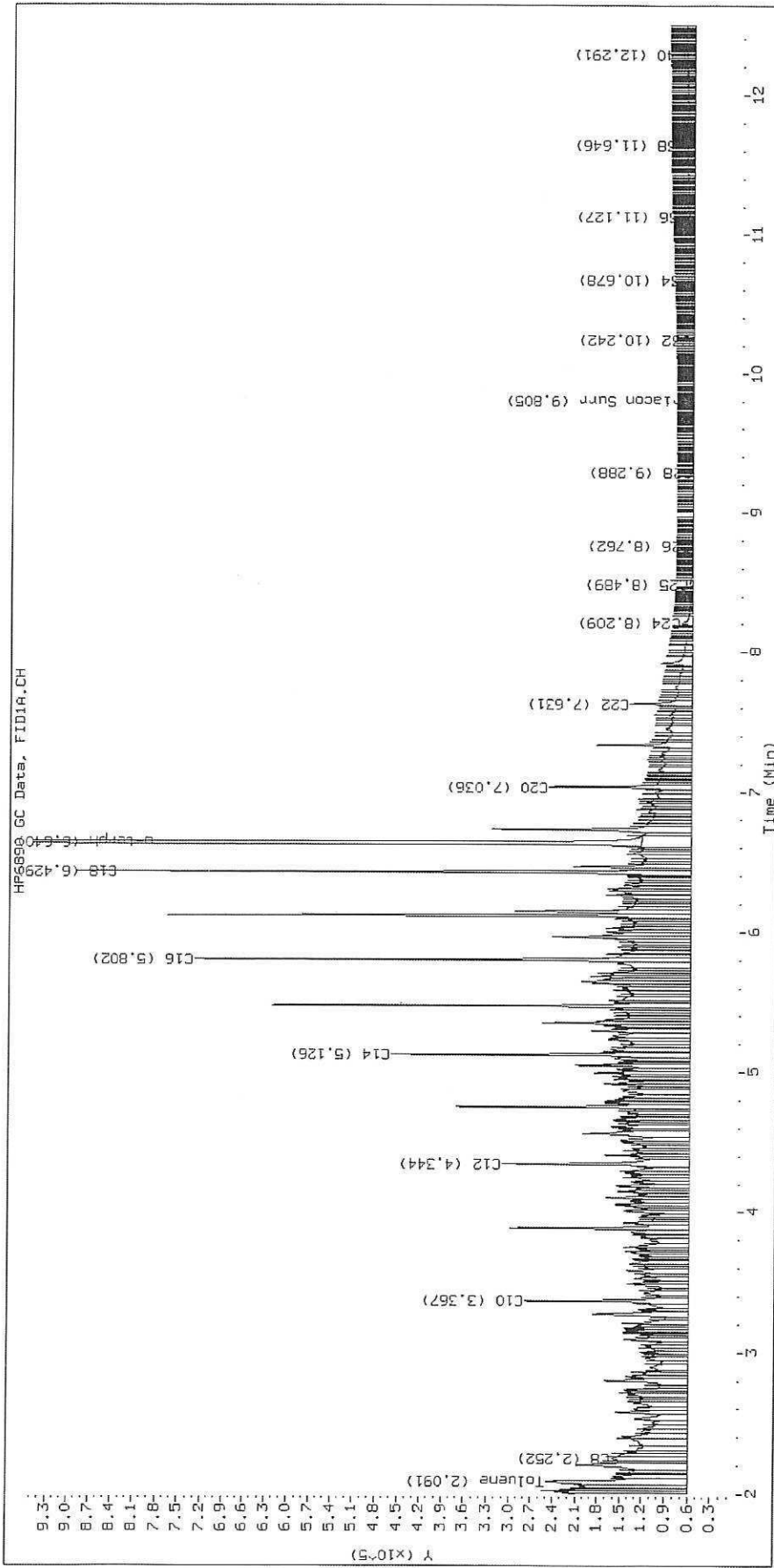
Surrogate	Area	Amount
o-Terphenyl	3642280	17.8 M
Triacotane	368	0.0

M Indicates the peak was manually integrated

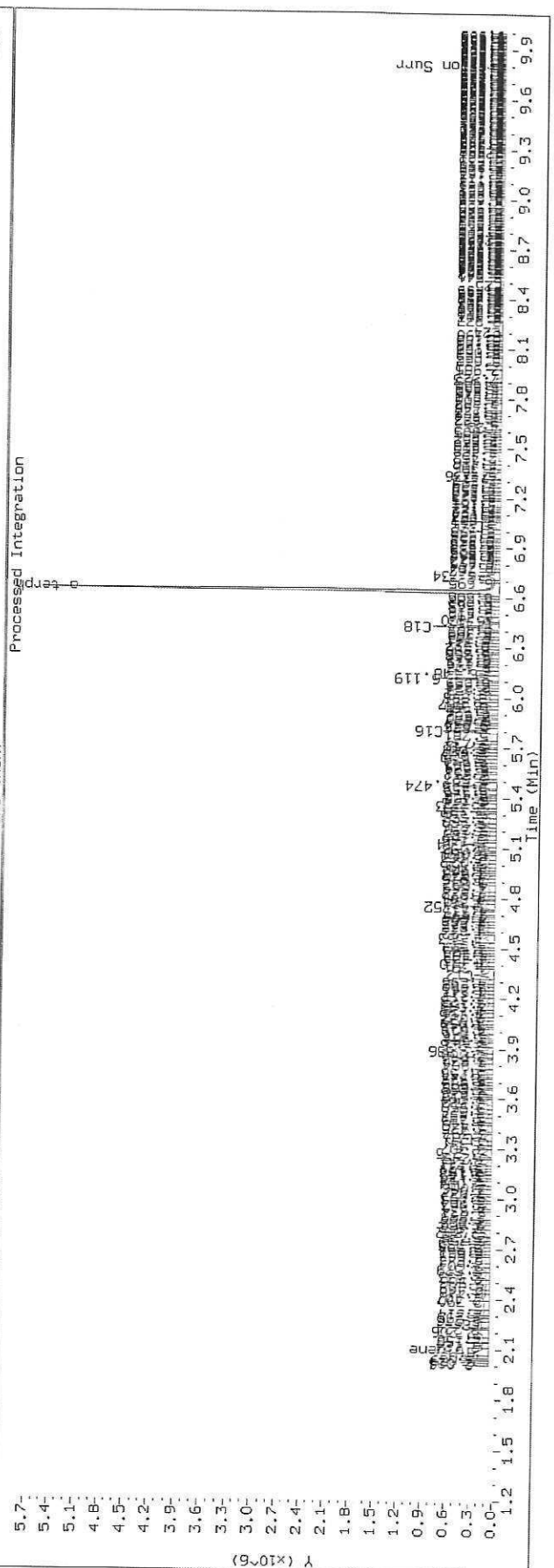
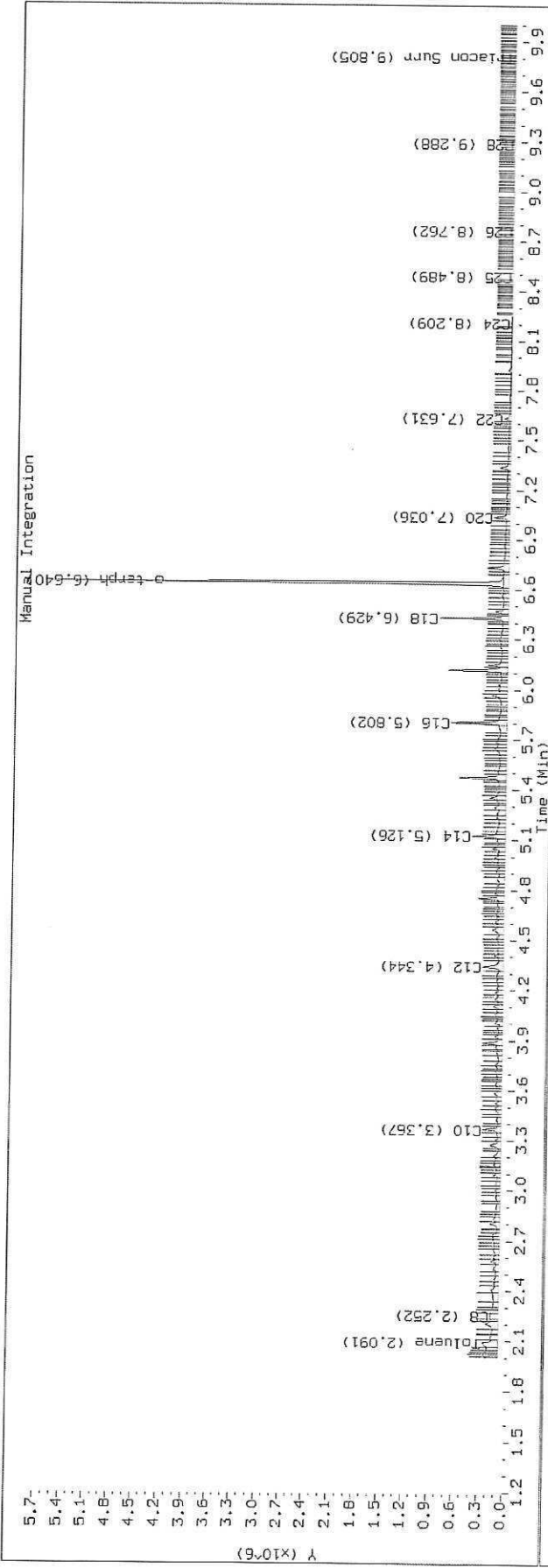
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2508.D

SHJ0406-CAL2

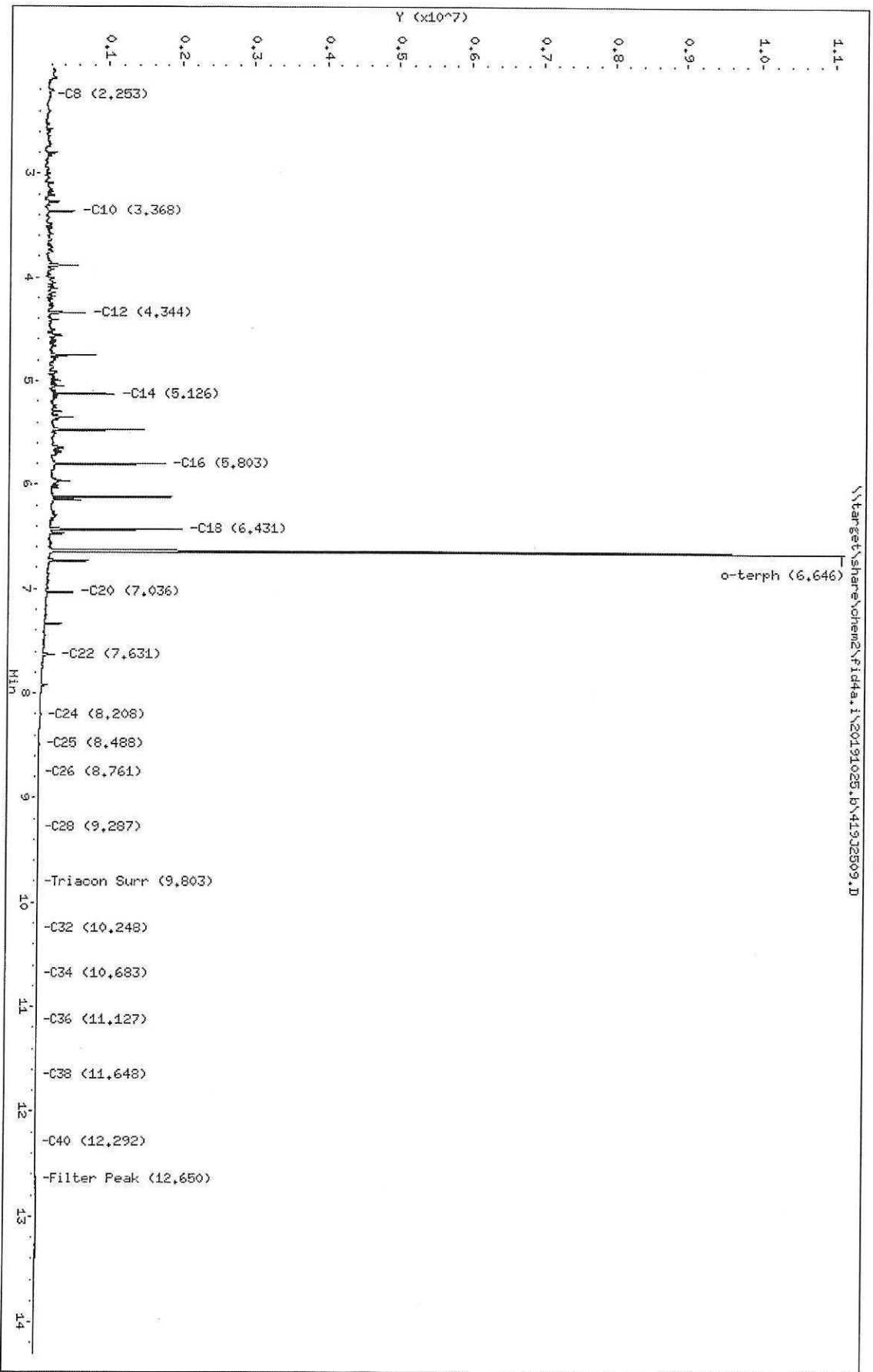


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2508.D Injection: 25-OCT-2019 14:12
 Lab ID: SHJ0406-CAL2



Data File: \\target\share\chem2\Fid4a.1\20191025.B\41912509.D
Date: 25-OCT-2019 14:32
Client ID:
Sample Info: SHJ0406-CAL3
Column phase: RTX-1

Instrument: Fid4a.1
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2509.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL3
Client ID:
Injection: 25-OCT-2019 14:32
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS								
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.253	-0.009	118722	240565	WATPHD	(C12-C24)	37913827	237.9
C10	3.368	-0.005	483544	476749	WATPHM	(C24-C38)	575858	4.3
C12	4.344	-0.003	627626	779062	AK102	(C10-C25)	46188702	236.3
C14	5.126	-0.004	1022309	790022	AK103	(C25-C36)	284914	2.8
C16	5.803	-0.004	1736531	1218478	OR.DIES	(C10-C28)	46284811	236.1
C18	6.431	-0.004	1970150	1409422				
C20	7.036	-0.007	509531	494893				
C22	7.631	-0.008	243435	281583				
C24	8.208	-0.007	43836	95774				
C25	8.488	-0.005	13614	32431				
C26	8.761	-0.004	4384	8919				
C28	9.287	0.001	605	214				
C32	10.248	0.006	1381	707				
C34	10.683	0.001	3151	1389				
Filter Peak	12.650	-0.000	9358	3271	CREOSOT	(C12-C22)	36811374	9436.7
C36	11.127	-0.002	5536	1099				
C38	11.648	-0.002	7679	4193				
C40	12.292	0.003	8799	4362				
o-terph	6.646	-0.010	10937727	8968221				
Triacon Surr	9.803	0.001	295	103	NAS DIES	(C10-C24)	46106144	236.3

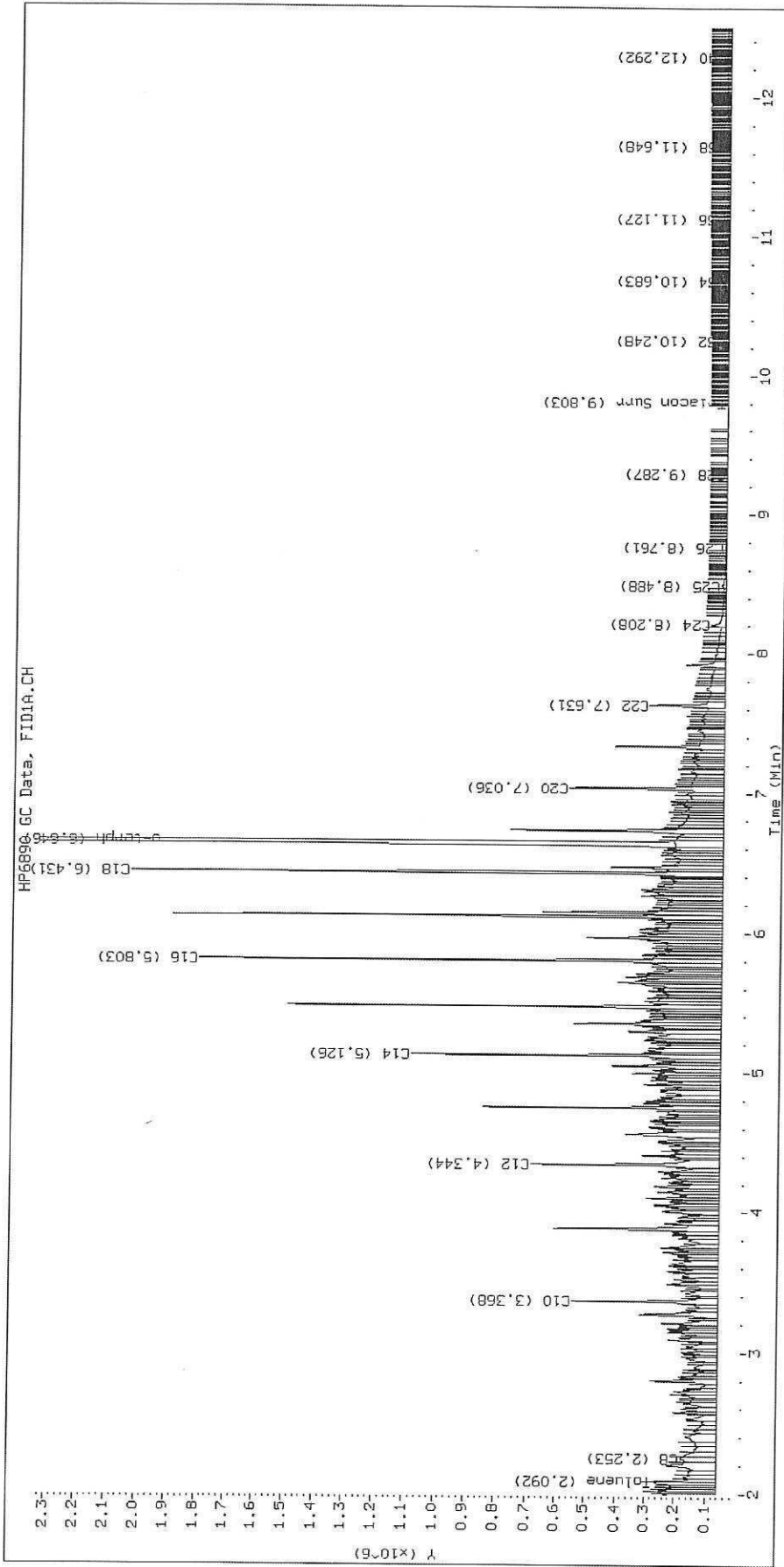
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	8968221	43.8
Triacontane	103	0.0

M Indicates the peak was manually integrated

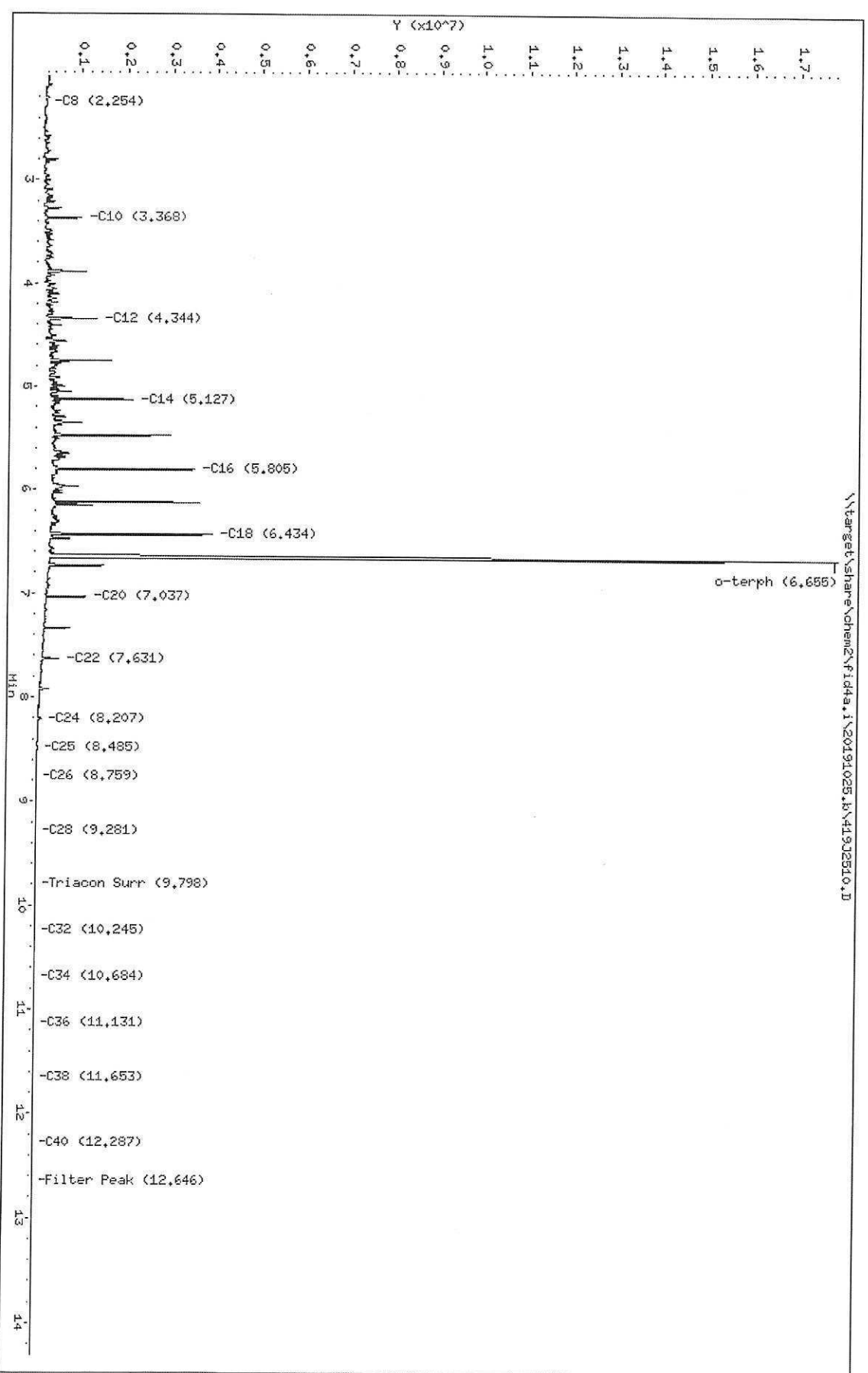
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2509.D SHJ0406-CAL3



Data File: \\target\shane\chem2\fid4a.i\20191025.bv\4192510.D
Date: 25-OCT-2019 14:53
Client ID:
Sample Info: SH30406-CRL4
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b\419J2510.D

Method: 20191025.b\FID4TPH.m

Instrument: fid4a.i, CTO/SH/VTS/JGR

Report Date: 10/30/2019

Macro: 09-SEP-2019

Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL4

Client ID:

Injection: 25-OCT-2019 14:53

Dilution Factor: 1

RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.254	-0.009	133720	272365	WATPHD	(C12-C24)	76110005	477.7
C10	3.368	-0.005	913330	831182	WATPHM	(C24-C38)	747310	5.6
C12	4.344	-0.004	1278885	1502773	AK102	(C10-C25)	90903979	465.0
C14	5.127	-0.003	2082835	1580085	AK103	(C25-C36)	436439	4.4
C16	5.805	-0.002	3492654	2476612	OR.DIES	(C10-C28)	91160529	465.1
C18	6.434	-0.001	3902008	2902073				
C20	7.037	-0.006	1095165	935641				
C22	7.631	-0.008	544650	574105				
C24	8.207	-0.008	109625	202080				
C25	8.485	-0.008	35990	71794				
C26	8.759	-0.006	12661	25763				
C28	9.281	-0.004	1585	1856				
C32	10.245	0.003	1048	453				
C34	10.684	0.002	3071	1964				
Filter Peak	12.646	-0.004	3825	2093	CREOSOT	(C12-C22)	73861119	18934.4
C36	11.131	0.002	4915	3154				
C38	11.653	0.003	5457	2692				
C40	12.287	-0.002	4261	1483				
o-terph	6.655	-0.001	17508754	18236498				
Triacon Surr	9.798	-0.004	325	112	NAS DIES	(C10-C24)	90741143	465.0

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

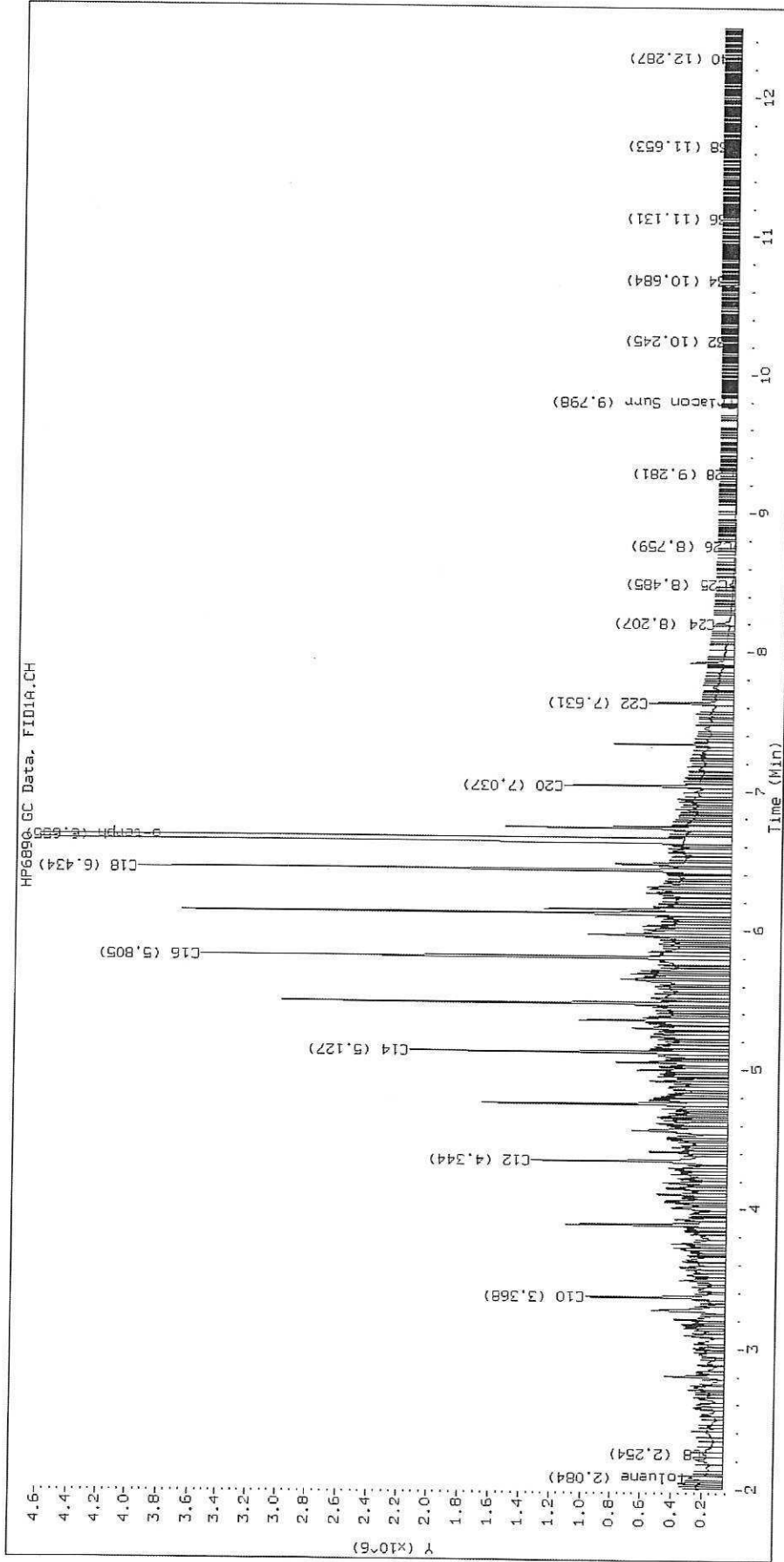
Surrogate	Area	Amount
o-Terphenyl	18236498	89.1 M
Triacotane	112	0.0

M Indicates the peak was manually integrated

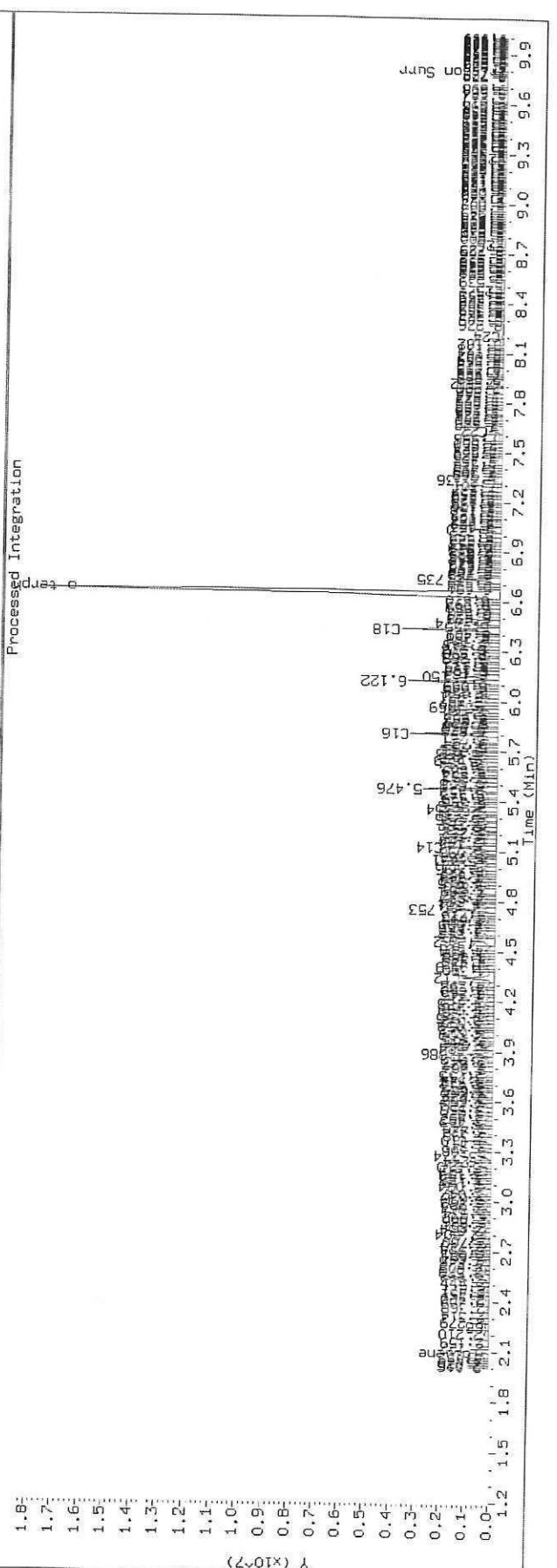
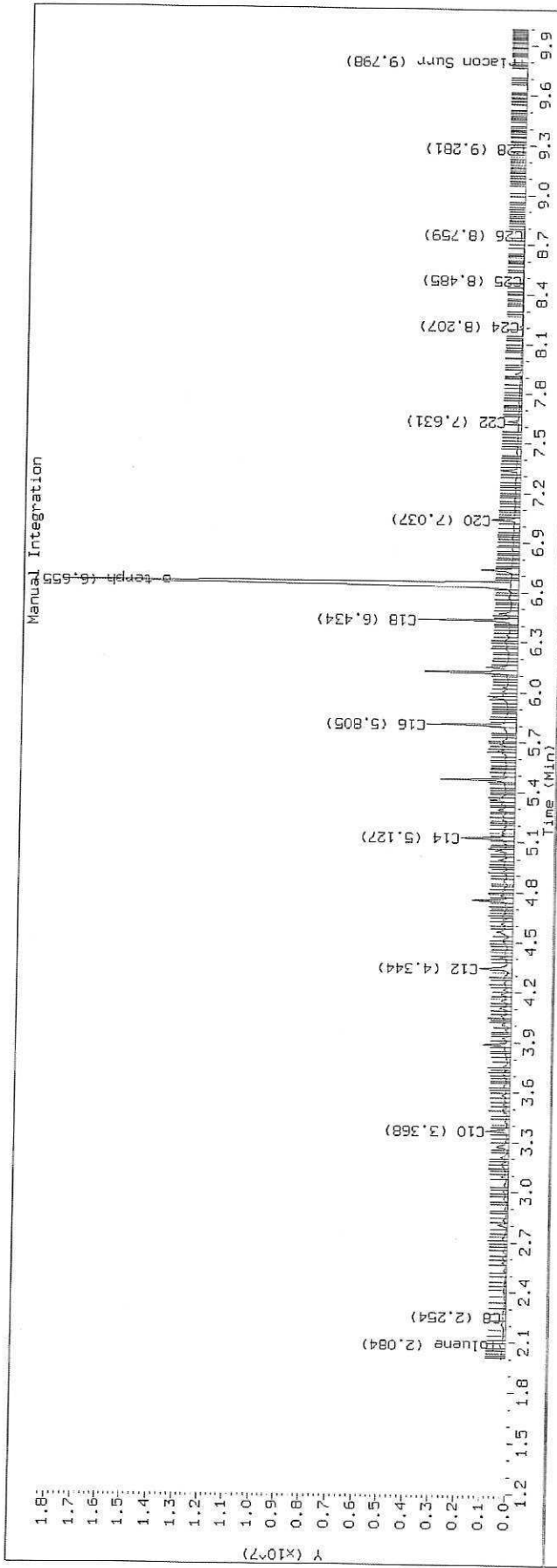
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2510.D

SHJ0406-CAL4

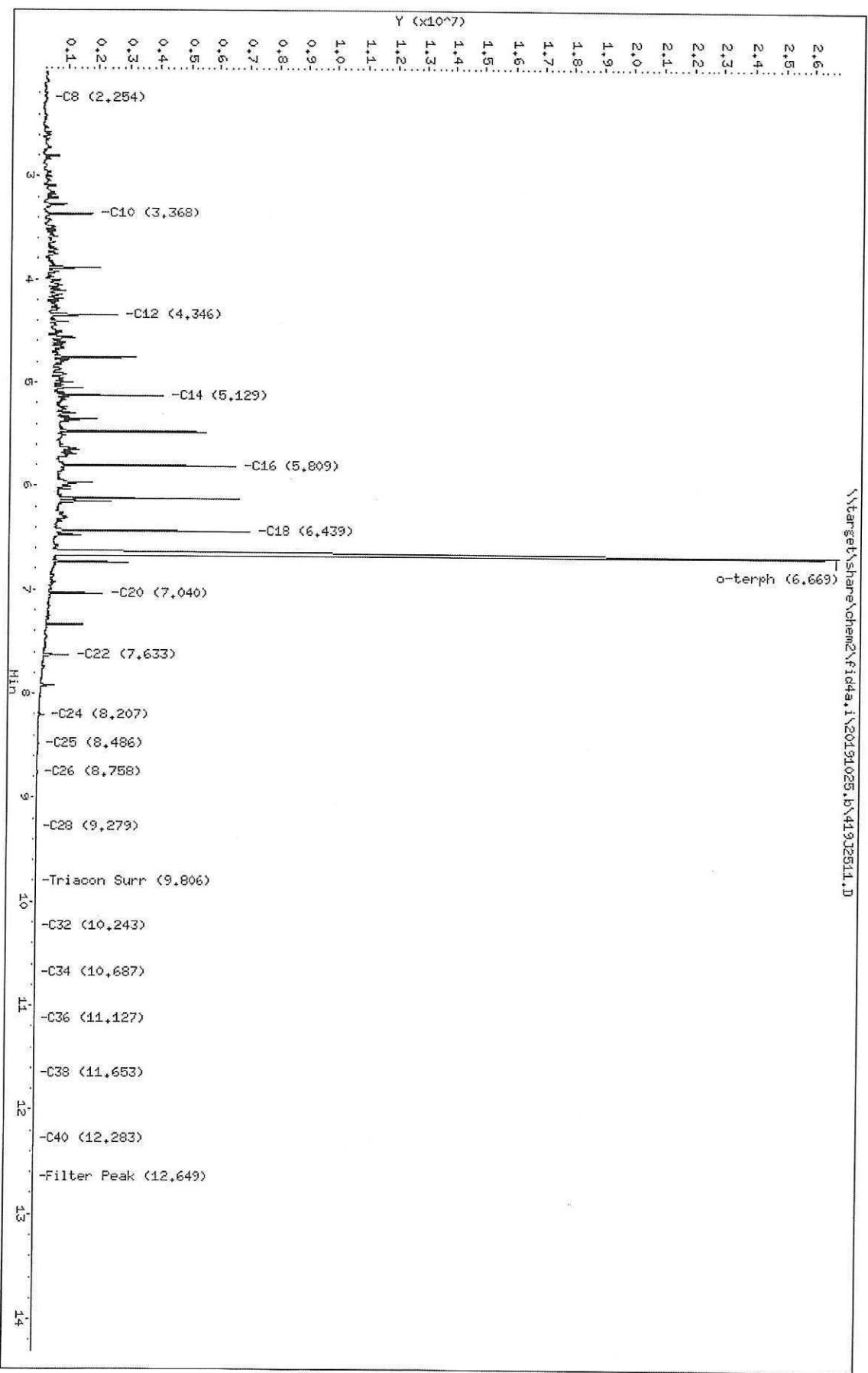


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2510.D Injection: 25-OCT-2019 14:53
 Lab ID: SH0406-CAL4



Data File: \\barger\share\chem2\fid4a.1\20191025.bv419J2511.D
 Date : 25-OCT-2019 15:13
 Client ID:
 Sample Info: SHJ0406-CAL5
 Column phase: RTX-1

Instrument: fid4a.1
 Operator: CTU/SH/VTS/JCR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2511.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL5
Client ID:
Injection: 25-OCT-2019 15:13
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS								
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.254	-0.008	179896	310888	WATPHD	(C12-C24)	153066747	960.6
C10	3.368	-0.005	1739085	1592987	WATPHM	(C24-C38)	1270800	9.6
C12	4.346	-0.001	2582378	2992597	AK102	(C10-C25)	181956494	930.8
C14	5.129	-0.000	4119910	3175625	AK103	(C25-C36)	821445	8.2
C16	5.809	0.002	6560457	4974499	OR.DIES	(C10-C28)	182680399	932.0
C18	6.439	0.005	7062206	6028122				
C20	7.040	-0.003	2215368	1892870				
C22	7.633	-0.006	1144174	997771				
C24	8.207	-0.008	250003	385382				
C25	8.486	-0.007	89395	162170				
C26	8.758	-0.007	33365	80915				
C28	9.279	-0.006	6648	16116				
C32	10.243	0.001	219	113				
C34	10.687	0.005	471	169				
Filter Peak	12.649	-0.001	3299	1299	CREOSOT	(C12-C22)	148274267	38010.4
C36	11.127	-0.002	1506	512				
C38	11.653	0.003	2117	932				
C40	12.283	-0.006	2712	1056				
o-terph	6.669	0.013	26284682	37244787				
Triacon Surr	9.806	0.004	1398	1069	NAS DIES	(C10-C24)	181561688	930.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

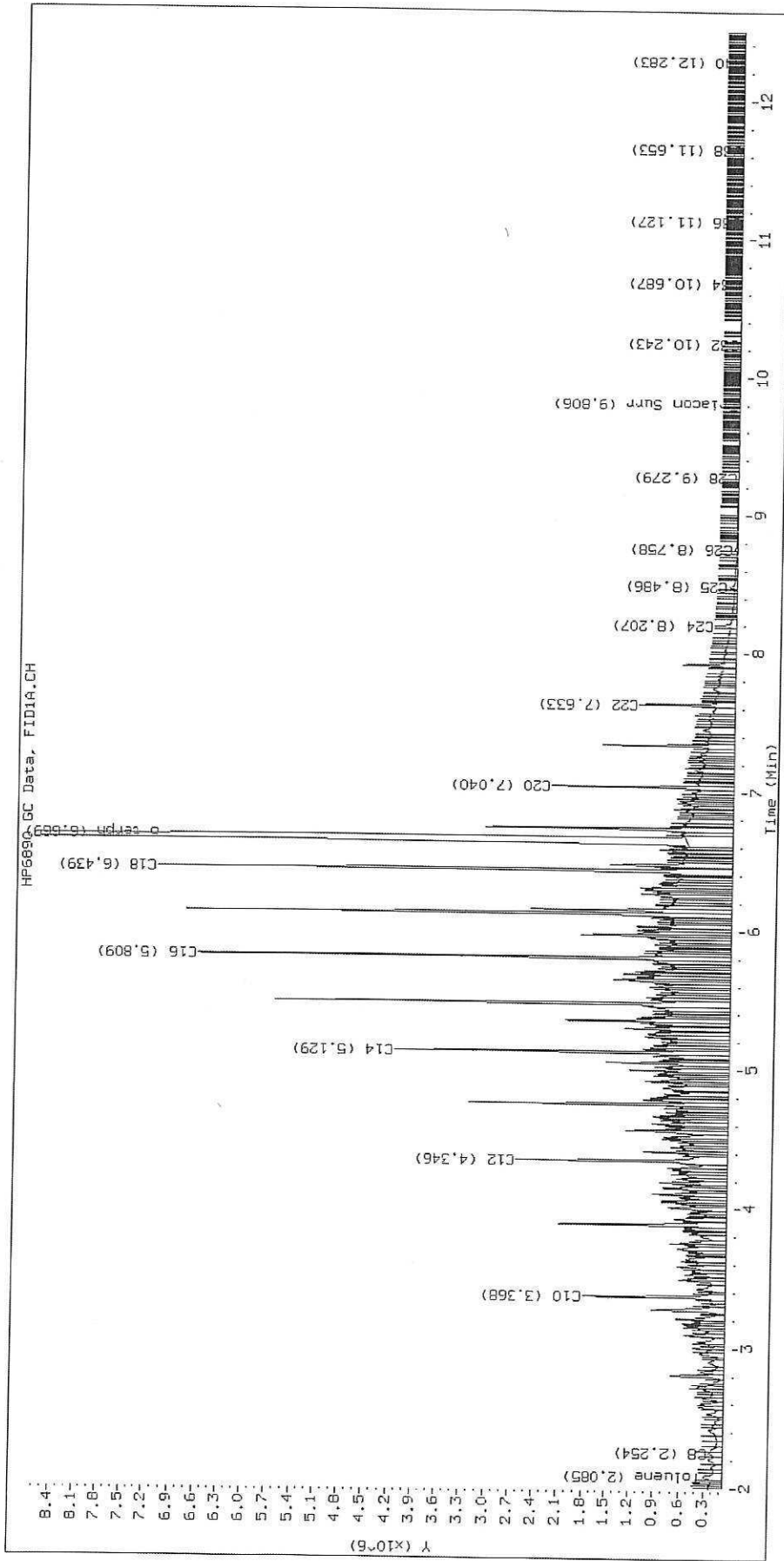
Surrogate	Area	Amount
o-Terphenyl	37244787	181.9 M
Triacotane	1069	0.0

M Indicates the peak was manually integrated

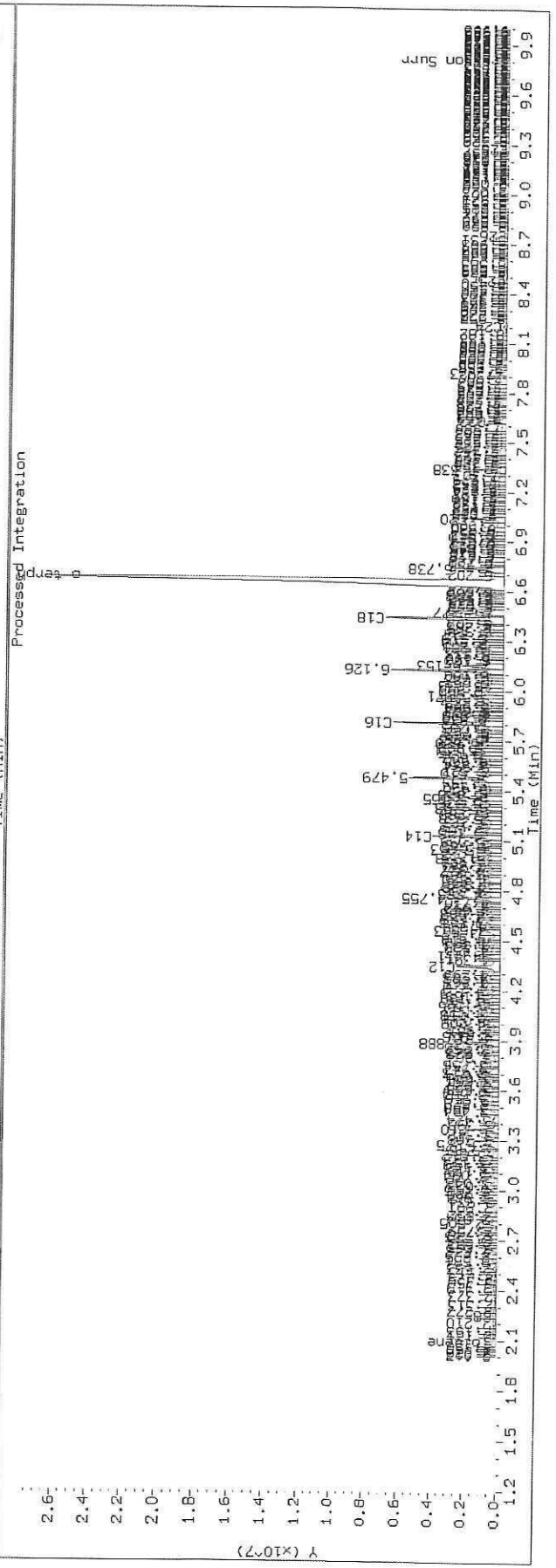
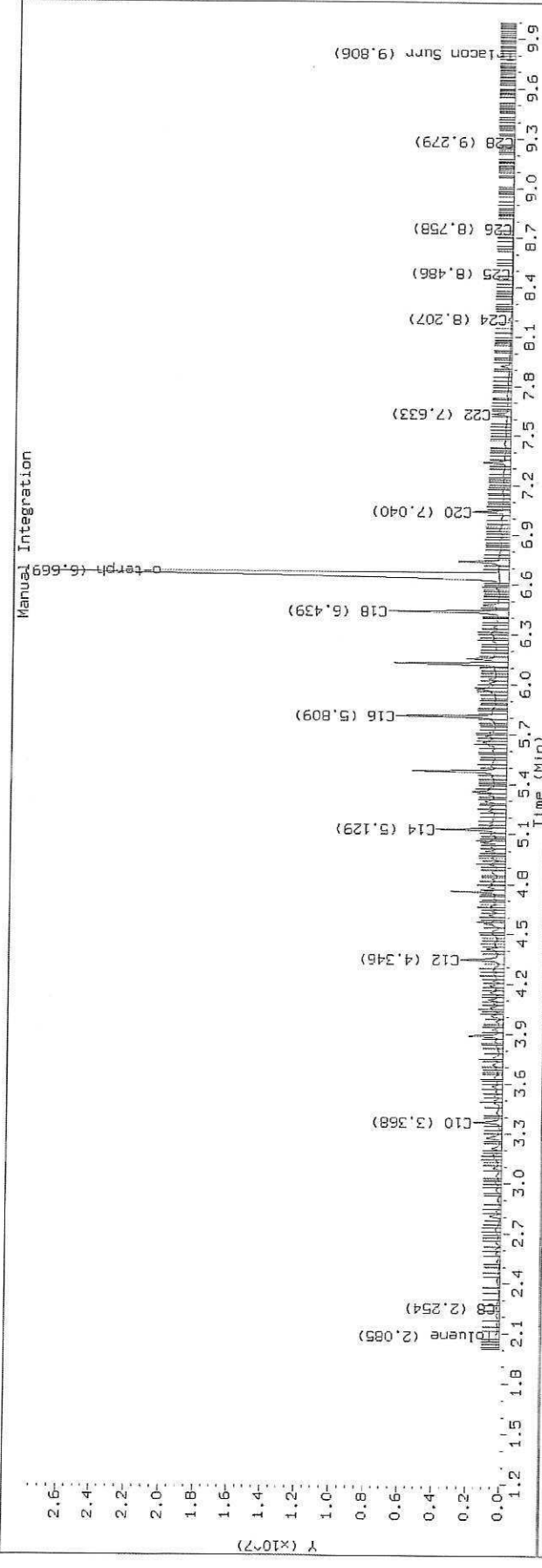
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2511.D

SHJ0406-CAL5

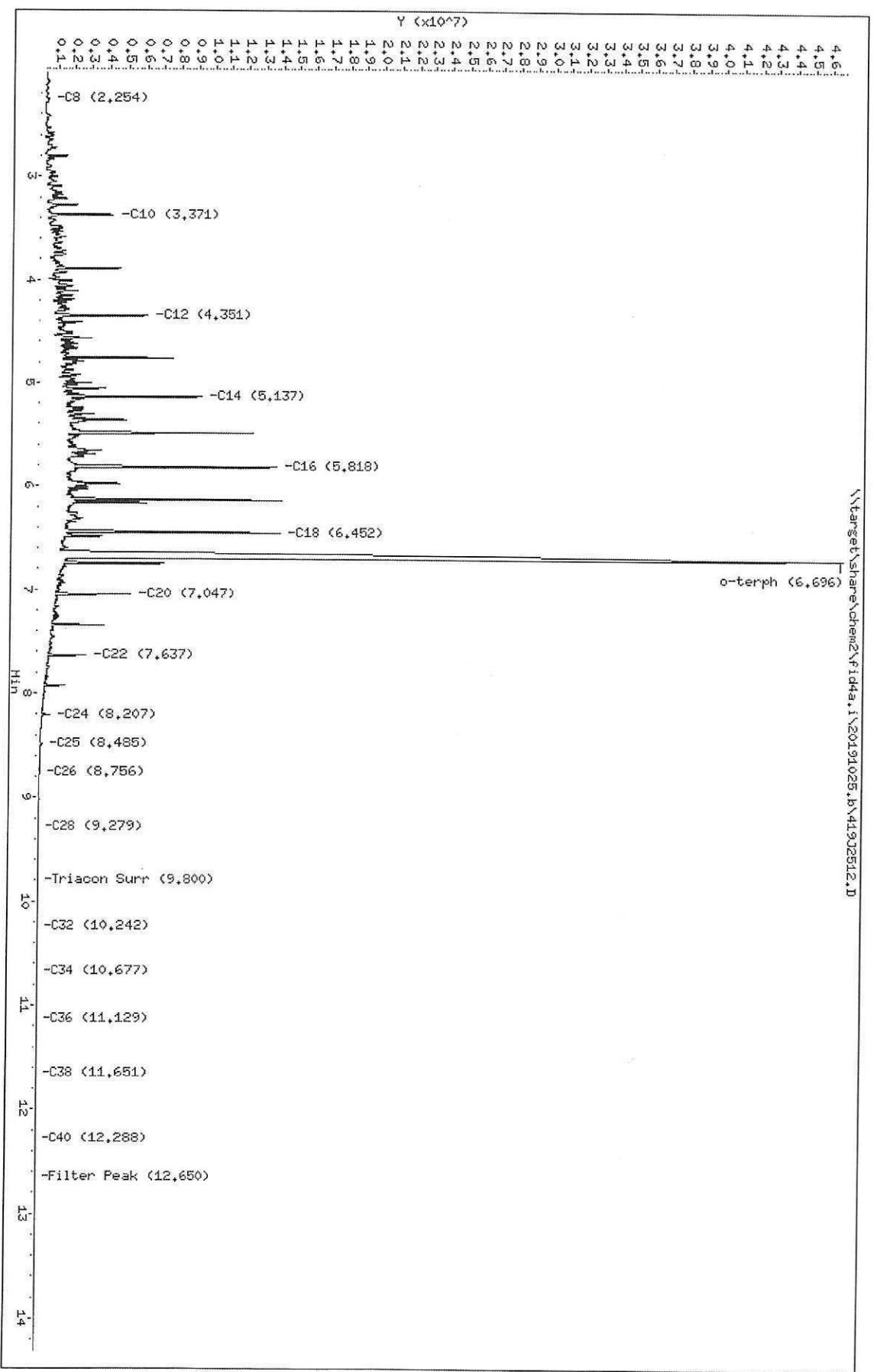


Datafile: FID4A, 20191025.b/419J2511.D Injection: 25-OCT-2019 15:13
 Lab ID: SHJ0406-CAL5



Data File: \\target\shane\chem2\Fid4a.I\20191025.BV419J2512.D
Date: 25-OCT-2019 15:32
Client ID:
Sample Info: SHJ0406-CHL6
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2512.D

ARI ID: SHJ0406-CAL6

Method: 20191025.b\FID4TPH.m

Client ID:

Instrument: fid4a.l, CTO/SH/VTS/JGR

Injection: 25-OCT-2019 15:32

Report Date: 10/30/2019

Dilution Factor: 1

Macro: 09-SEP-2019

RT Std: 419H1603.D

Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.254	-0.008	310597	486343	WATPHD	(C12-C24)	386988567	2428.7
C10	3.371	-0.002	4067321	3926897	WATPHM	(C24-C38)	3326156	25.1
C12	4.351	0.004	6051560	7536066	AK102	(C10-C25)	458776536	2346.8
C14	5.137	0.007	9257057	8197076	AK103	(C25-C36)	2148648	21.5
C16	5.818	0.011	13762212	12844924	OR.DIES	(C10-C28)	460755382	2350.8
C18	6.452	0.017	13977204	16316405				
C20	7.047	0.004	5292354	4776661				
C22	7.637	-0.002	2821591	2512756				
C24	8.207	-0.007	692936	731199				
C25	8.485	-0.008	261257	416815				
C26	8.756	-0.009	100686	191231				
C28	9.279	-0.006	17823	35082				
C32	10.242	-0.001	483	193				
C34	10.677	-0.004	847	428				
Filter Peak	12.650	-0.001	5215	3893	CREOSOT	(C12-C22)	374231679	95935.0
C36	11.129	0.000	2243	1721				
C38	11.651	0.001	3497	1043				
C40	12.288	-0.001	4517	2473				
o-terph	6.696	0.039	45134516	94404433				
Triacon Surr	9.800	-0.002	2320	892	NAS DIES	(C10-C24)	457687210	2345.3

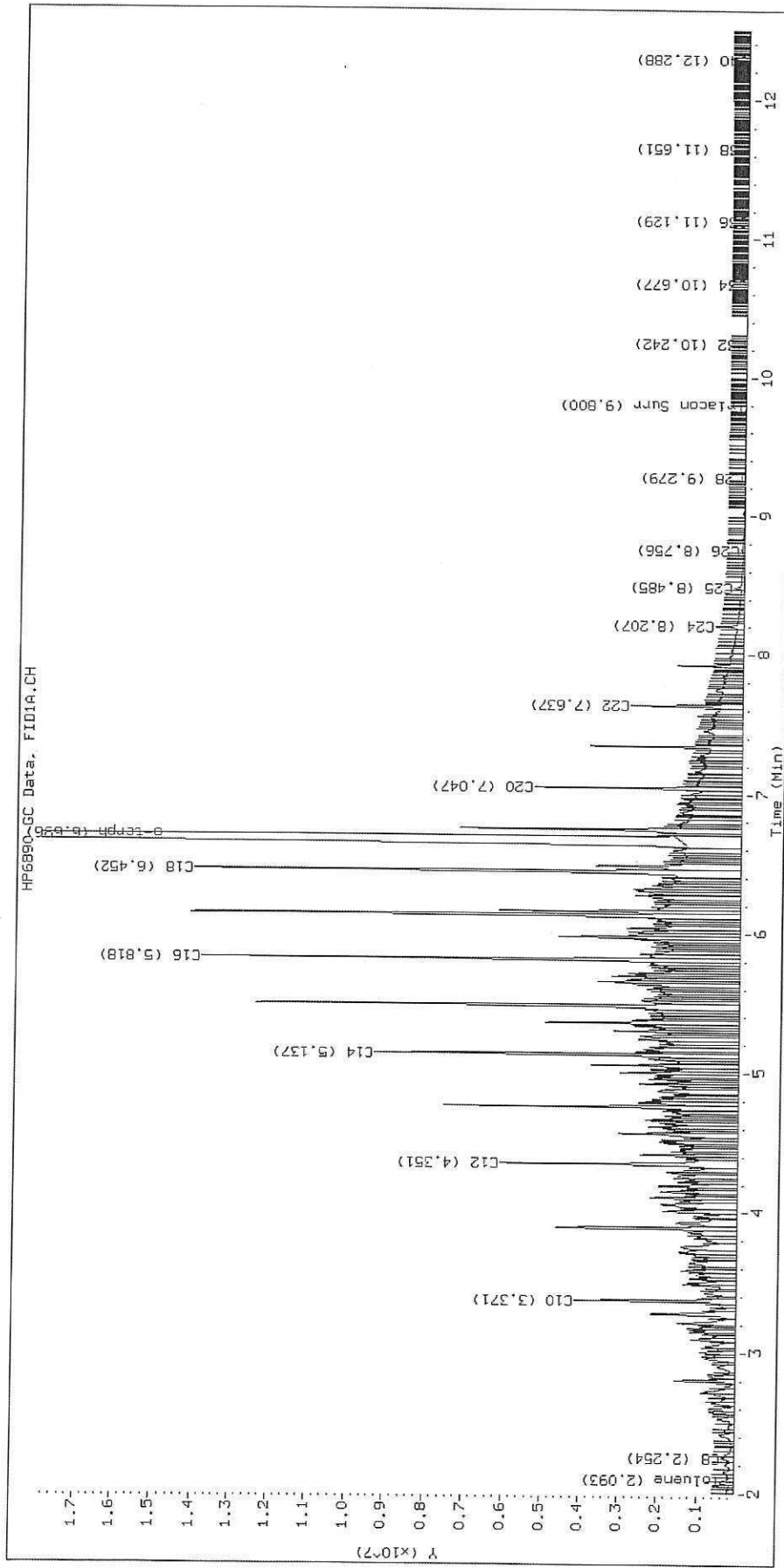
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

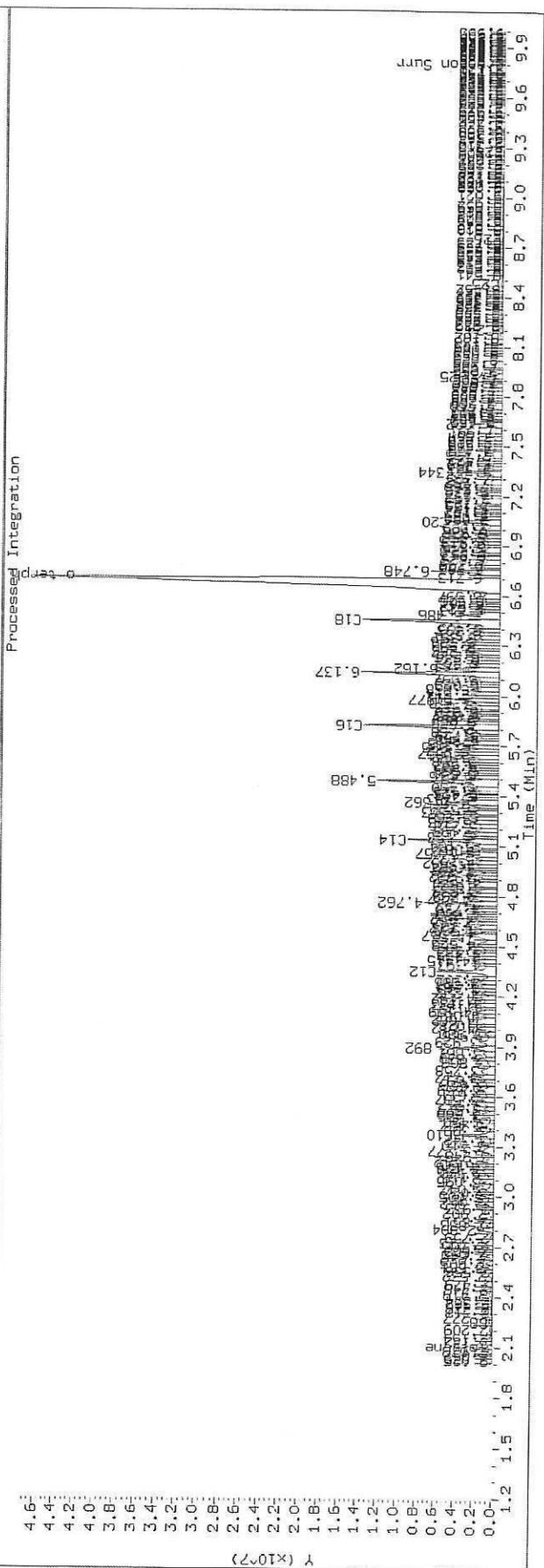
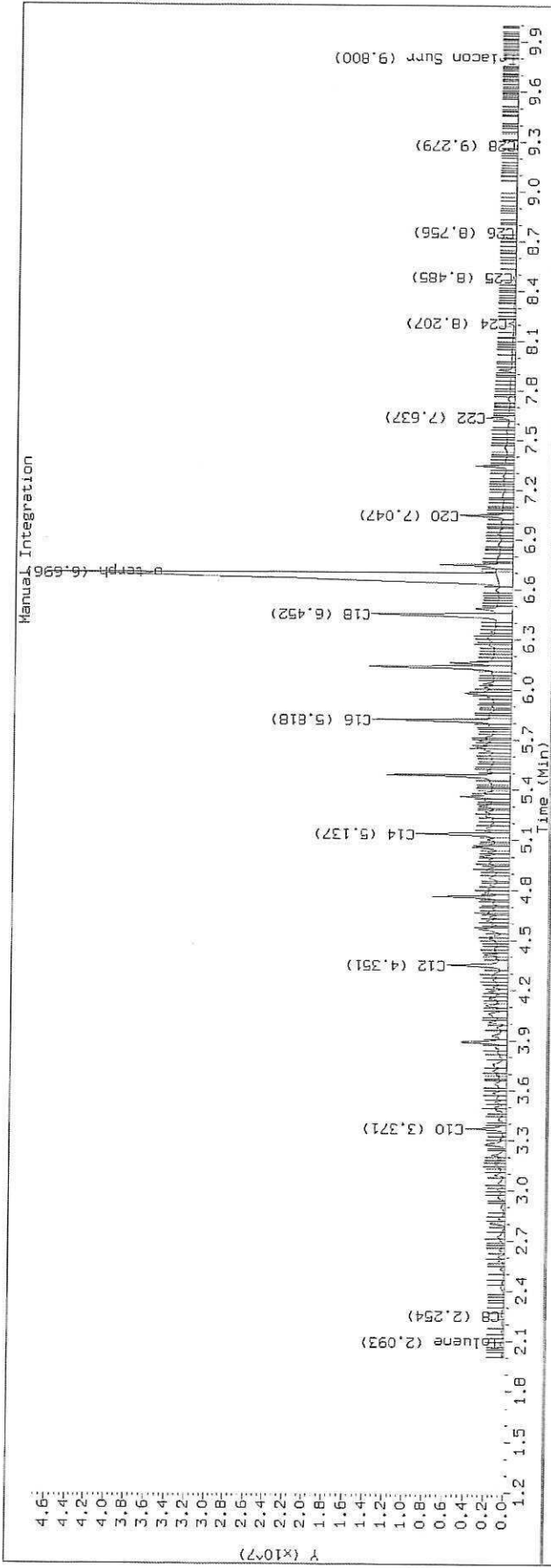
Surrogate	Area	Amount
o-Terphenyl	94404433	461.2 M
Triacontane	892	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

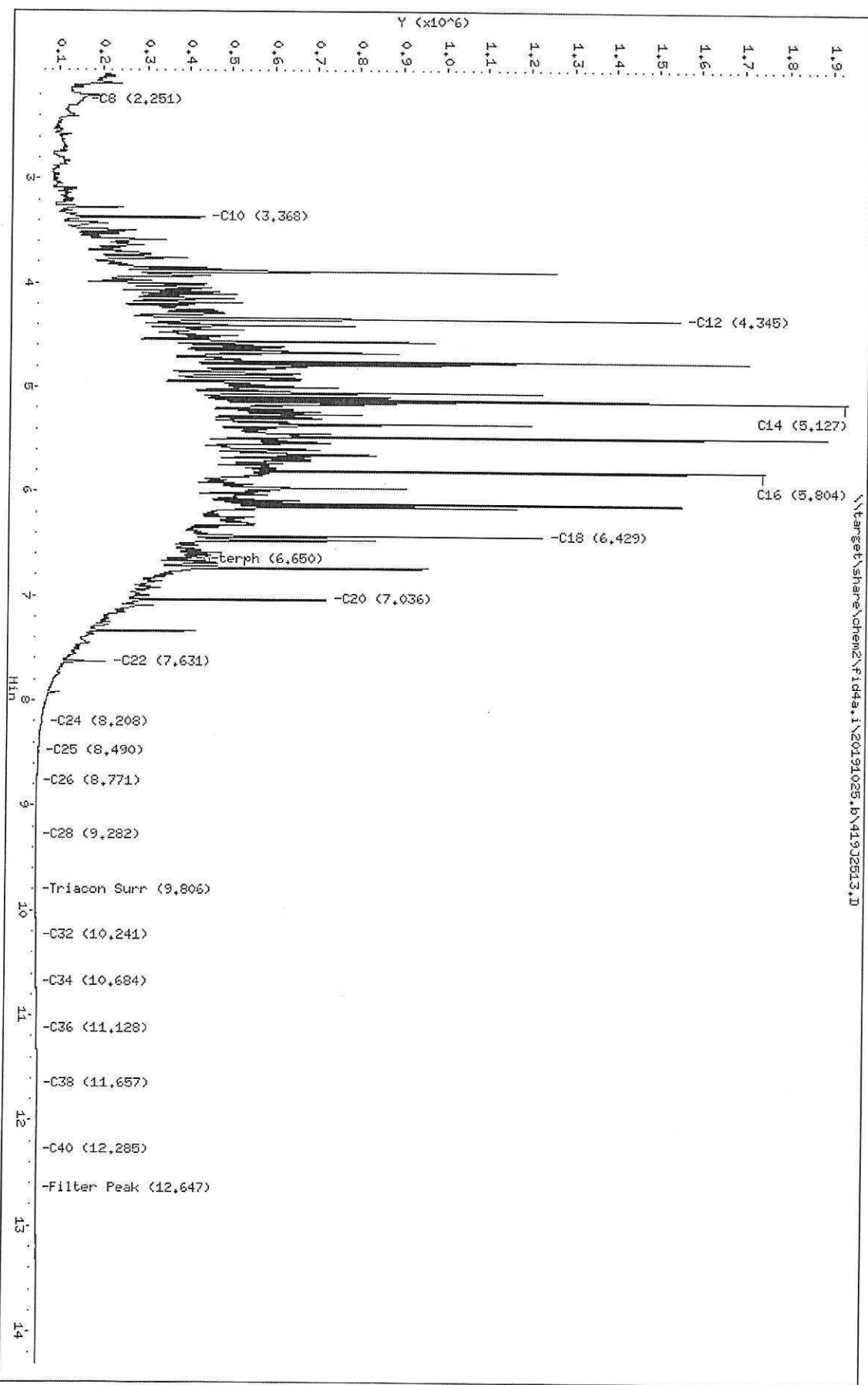
Datafile: FID4A, 20191025.b/419J2512.D SHJ0406-CAL6





Data File: \\target\share\chem2\fid4a.i\20191025.B\419J2513.D
Date: 25-OCT-2019 15:52
Client ID:
Sample Info: SH30406-SCW1
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTD/SH/VTS/JCR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2513.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV1
Client ID:
Injection: 25-OCT-2019 15:52
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS								
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.251	-0.011	94961	147864	WATPHD	(C12-C24)	81454017	511.2
C10	3.368	-0.005	379319	401979	WATPHM	(C24-C38)	639731	4.8
C12	4.345	-0.002	1496096	1990616	AK102	(C10-C25)	97704414	499.8
C14	5.127	-0.002	1881566	1510979	AK103	(C25-C36)	332991	3.3
C16	5.804	-0.003	1693335	1468242	OR.DIES	(C10-C28)	97755450	498.8
C18	6.429	-0.006	1178327	1173671				
C20	7.036	-0.007	676475	771884				
C22	7.631	-0.008	162529	245982				
C24	8.208	-0.007	16269	46701				
C25	8.490	-0.003	4835	8168				
C26	8.771	0.006	1378	465				
C28	9.282	-0.003	218	122				
C32	10.241	-0.001	2076	410				
C34	10.684	0.003	4334	2137				
Filter Peak	12.647	-0.003	10515	4189	CREOSOT	(C12-C22)	80554511	20650.3
C36	11.128	-0.001	6869	2744				
C38	11.657	0.008	8764	3056				
C40	12.285	-0.004	9988	4995				
o-terph	6.650	-0.007	347314	350999				
Triacon Surr	9.806	0.003	1146	388	NAS DIES	(C10-C24)	97645351	500.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

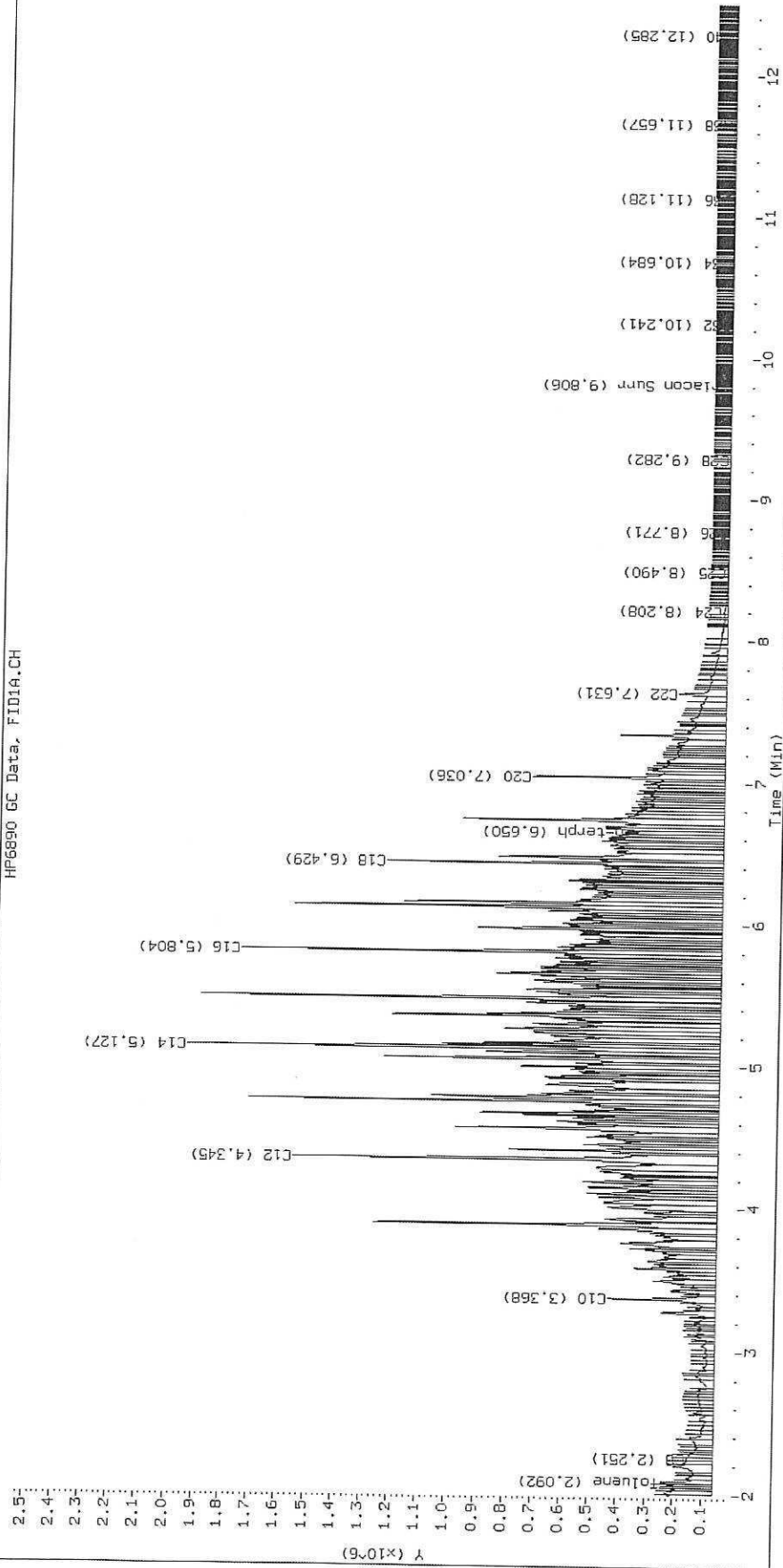
Surrogate	Area	Amount
o-Terphenyl	350999	1.7
Triacotane	388	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

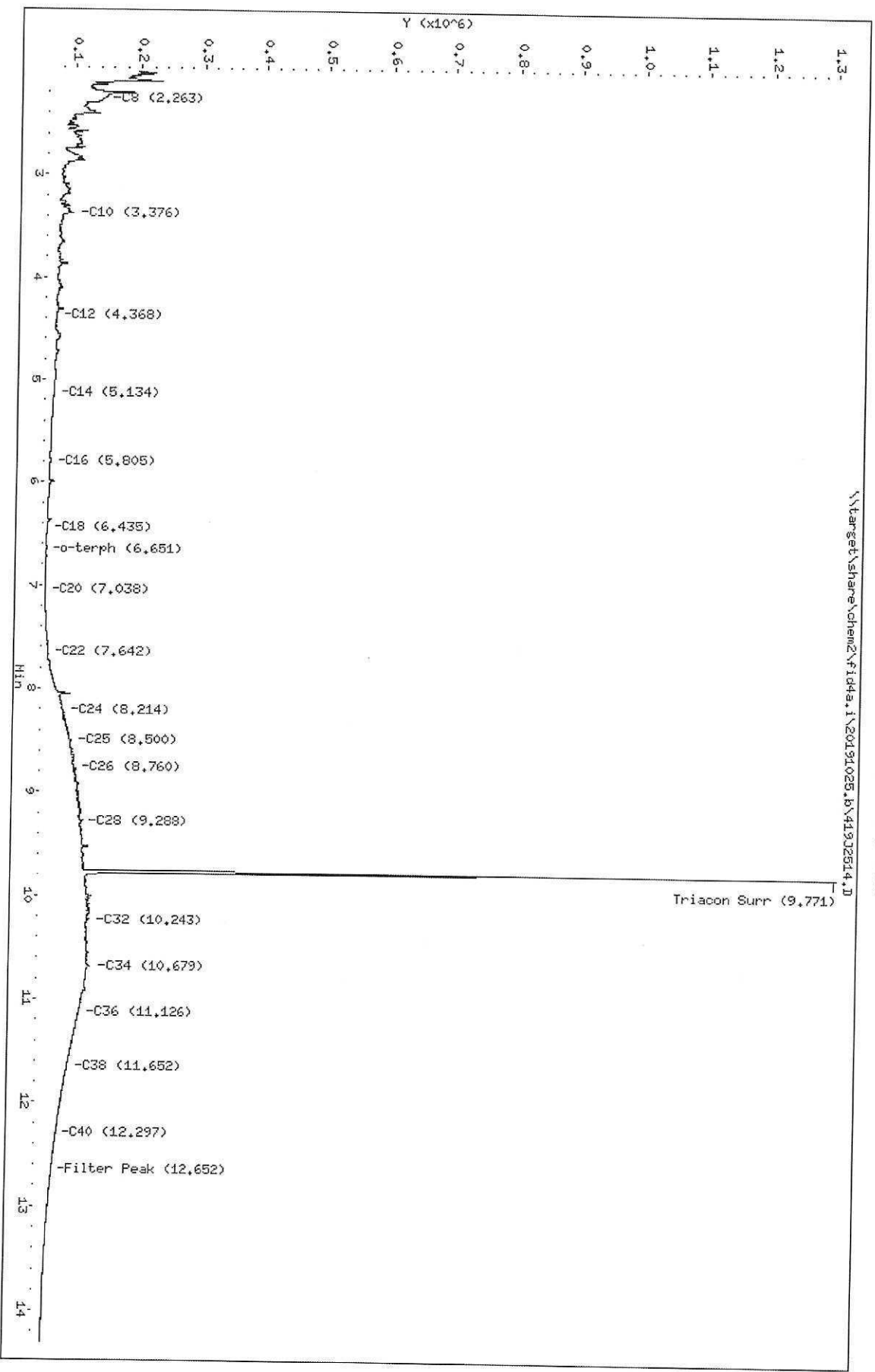
Datafile: FID4A, 20191025.b/419J2513.D SHJ0406-SCVI

HP6890 GC Data, FID1A.CH



Data File: \\target\share\chem2\fid4a.1\20191025.1\41932514.D
Date : 25-OCT-2019 16:12
Client ID:
Sample Info: SHJ0406-CAL7
Column phase: RTX-1

Instrument: fid4a.1
Operator: CT0/SH/VTS/JCR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2514.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL7
Client ID:
Injection: 25-OCT-2019 16:12
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	85024	58523	WATPHD	(C12-C24)	1690231	10.6
C10	3.376	0.003	37002	76813	WATPHM	(C24-C38)	13578464	102.4
C12	4.368	0.021	13222	16848	AK102	(C10-C25)	3173344	16.2
C14	5.134	0.004	9789	3901	AK103	(C25-C36)	11330395	113.3
C16	5.805	-0.002	5337	2891	OR.DIES	(C10-C28)	6258620	31.9
C18	6.435	0.000	1861	887				
C20	7.038	-0.005	431	243				
C22	7.642	0.003	6248	1558				
C24	8.214	-0.001	36357	52641				
C25	8.500	0.007	49017	43098				
C26	8.760	-0.005	55671	27607				
C28	9.288	0.003	67768	33791				
C32	10.243	0.001	81940	56823				
C34	10.679	-0.002	85222	51016				
Filter Peak	12.652	0.002	27566	19236	CREOSOT	(C12-C22)	959454	246.0
C36	11.126	-0.003	69343	27714				
C38	11.652	0.002	52690	33941				
C40	12.297	0.009	34497	15508				
o-terph	6.651	-0.006	941	547				
Triacon Surr	9.771	-0.031	1179904	816812	NAS DIES	(C10-C24)	2749900	14.1

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

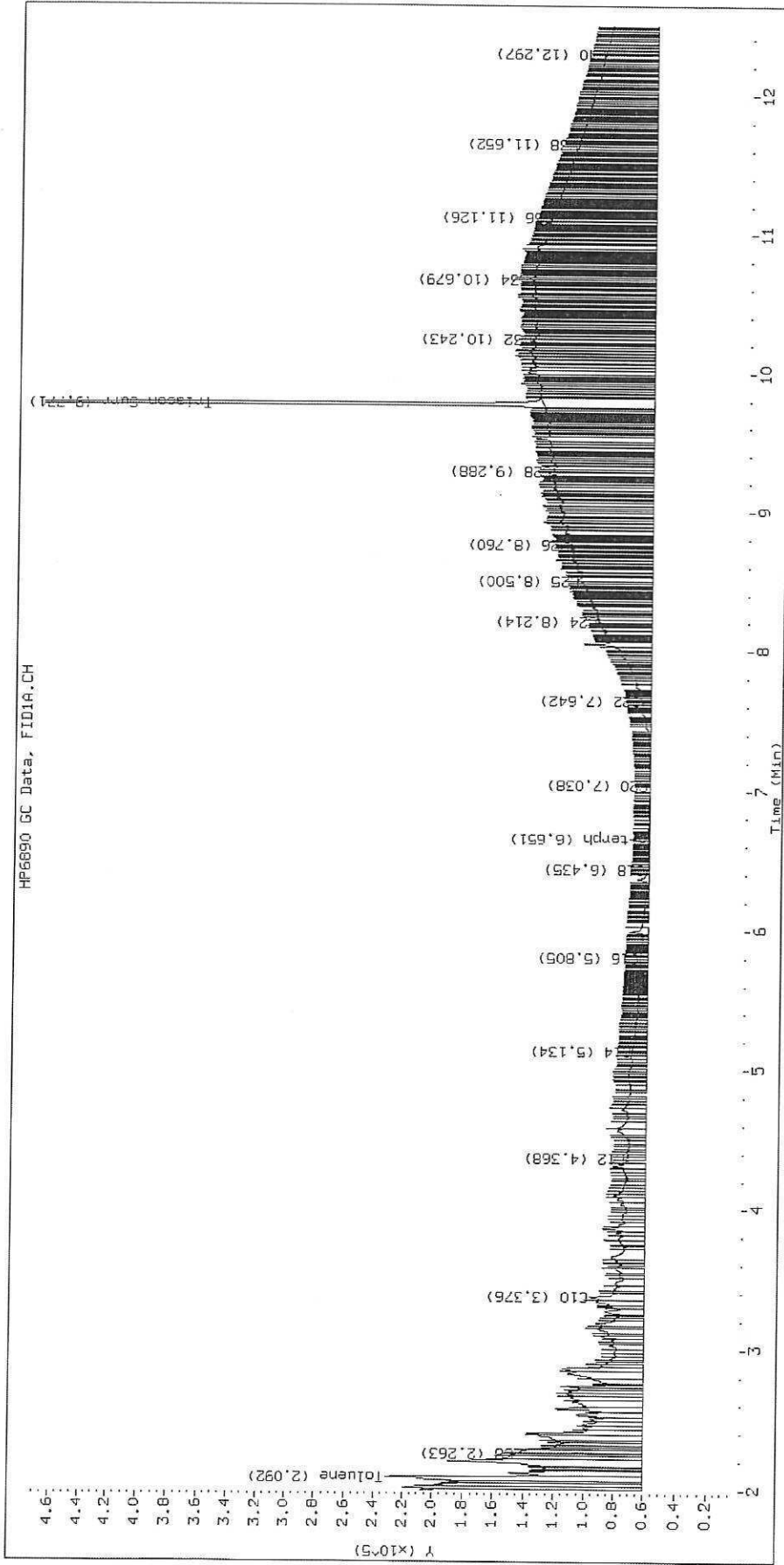
Surrogate	Area	Amount
o-Terphenyl	547	0.0
Triacotane	816812	4.6 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

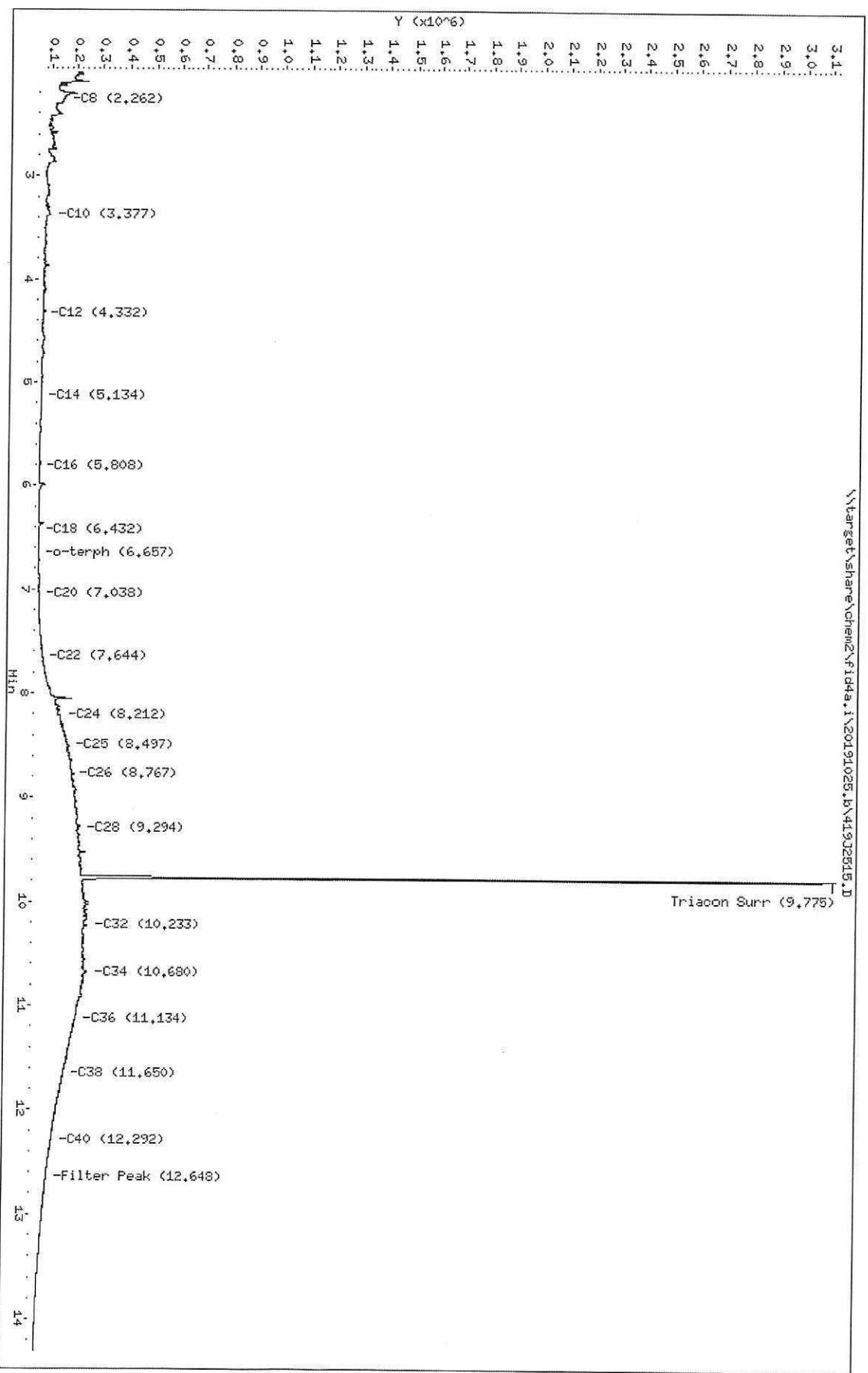
Datafile: FID4A, 20191025.b/419J2514.D SHJ0406-CAL7

HP6890 GC Data, FID1A.CH



Data File: \\target\share\chem2\fid4a.i\20191026.bv41932615.D
 Date : 26-OCT-2019 16:33
 Client ID:
 Sample Infol: SHJ0406-CAL8
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/VTS/JCR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2515.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL8
Client ID:
Injection: 25-OCT-2019 16:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.262	0.000	86050	63363	WATPHD	(C12-C24)	2977110	18.7
C10	3.377	0.004	37018	79239	WATPHM	(C24-C38)	34653776	261.3
C12	4.332	-0.015	11427	15714	AK102	(C10-C25)	5054179	25.9
C14	5.134	0.004	5154	2057	AK103	(C25-C36)	29175058	291.8
C16	5.808	0.001	2486	1818	OR.DIES	(C10-C28)	13169508	67.2
C18	6.432	-0.002	1168	783				
C20	7.038	-0.005	3772	4551				
C22	7.644	0.005	20883	5211				
C24	8.212	-0.002	97111	92984				
C25	8.497	0.004	127743	100149				
C26	8.767	0.003	144937	36089				
C28	9.294	0.009	174099	155043				
C32	10.233	-0.009	209275	335982				
C34	10.680	-0.001	211521	464774				
Filter Peak	12.648	-0.002	60945	24237	CREOSOT	(C12-C22)	985245	252.6
C36	11.134	0.005	168788	75681				
C38	11.650	0.000	122780	30685				
C40	12.292	0.003	80017	15993				
o-terph	6.657	0.001	951	796				
Triacon Surr	9.775	-0.027	2879377	2052387	NAS DIES	(C10-C24)	3922564	20.1

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

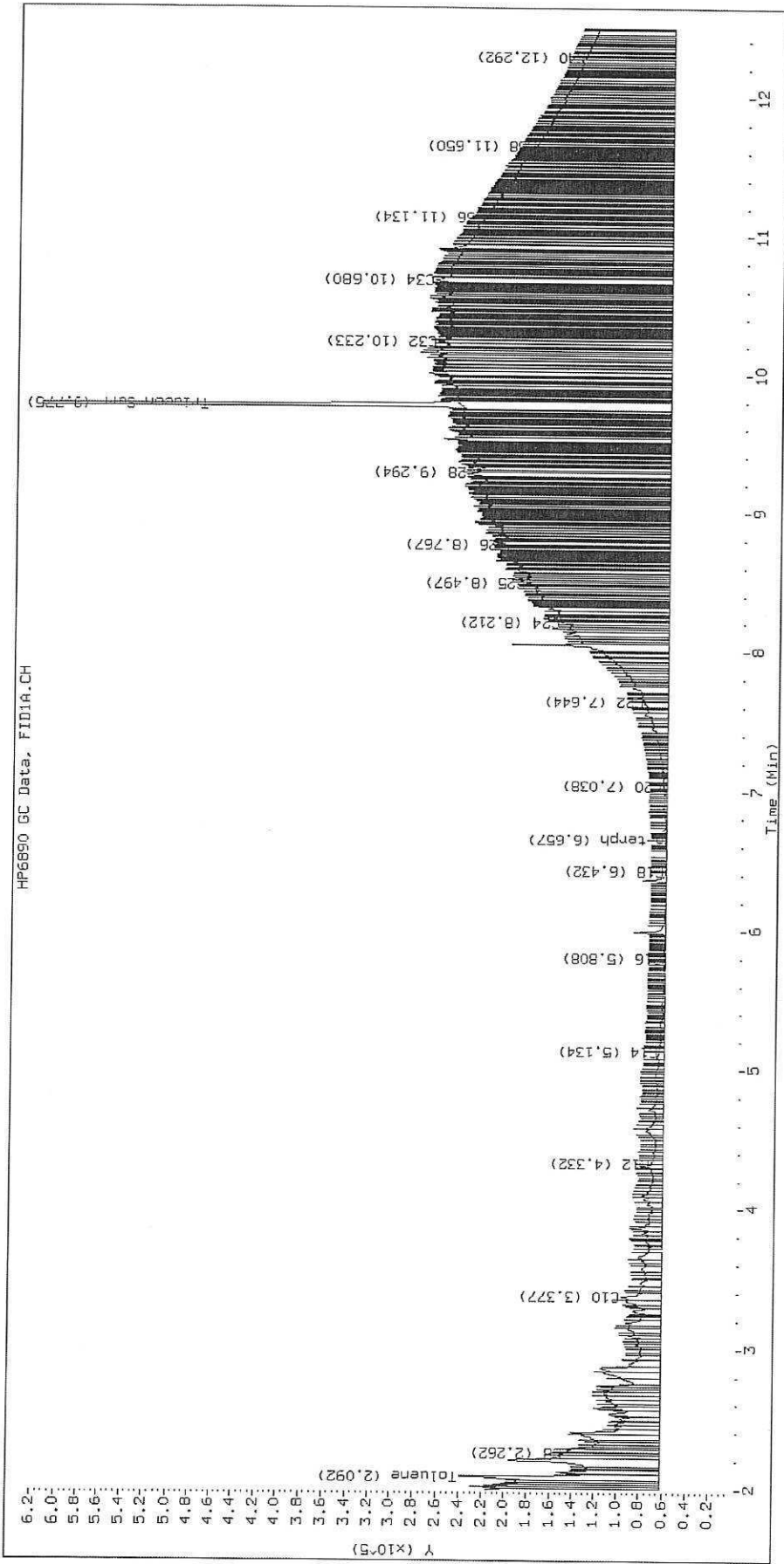
Surrogate	Area	Amount
o-Terphenyl	796	0.0
Triacotane	2052387	11.5 M

M Indicates the peak was manually integrated

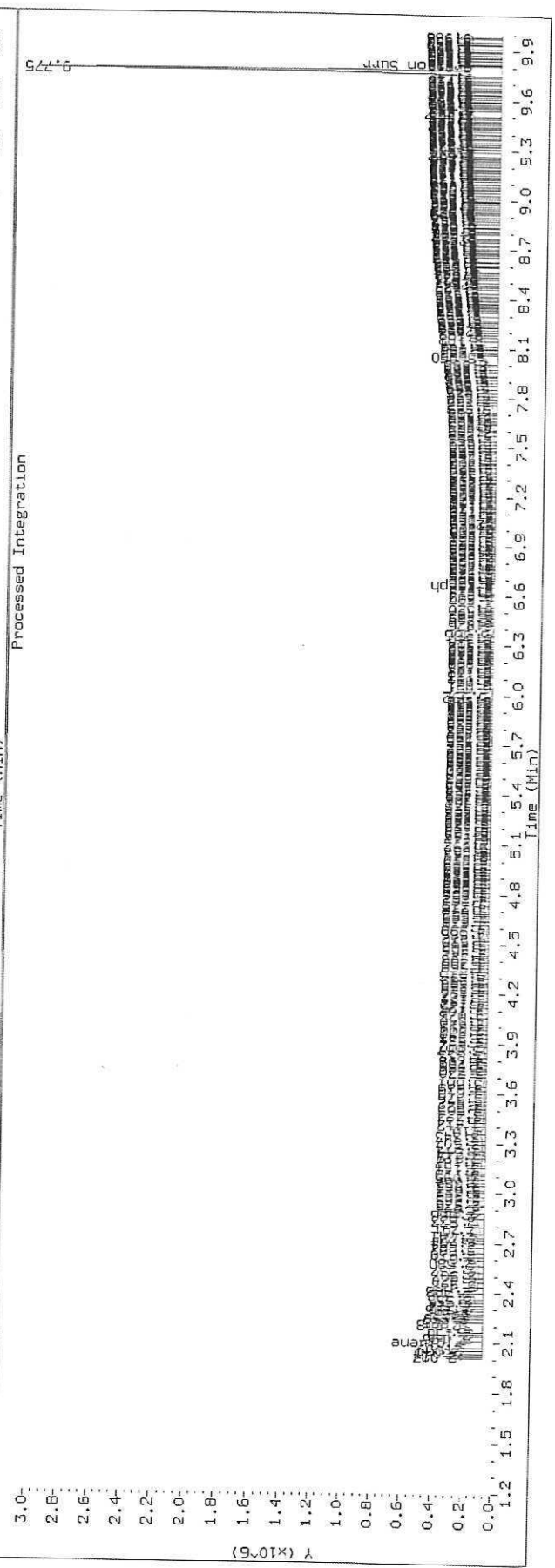
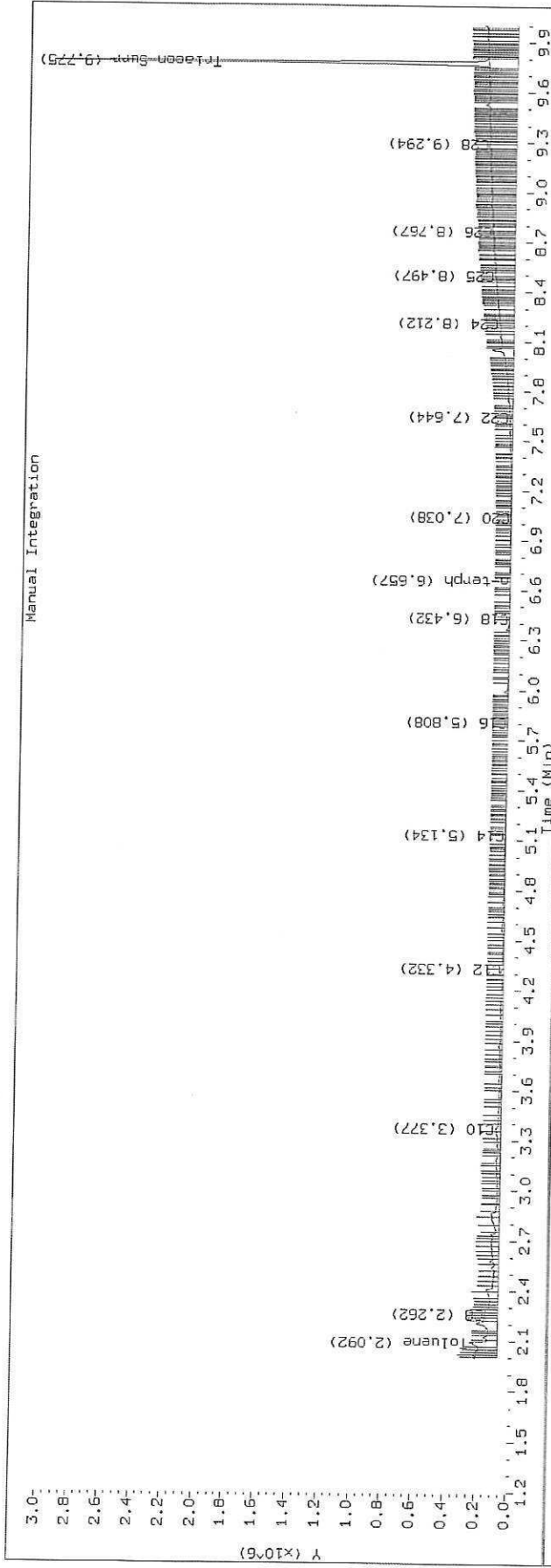
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2515.D SHJ0406-CAL8

HP6890 GC Data, FID1A.CH

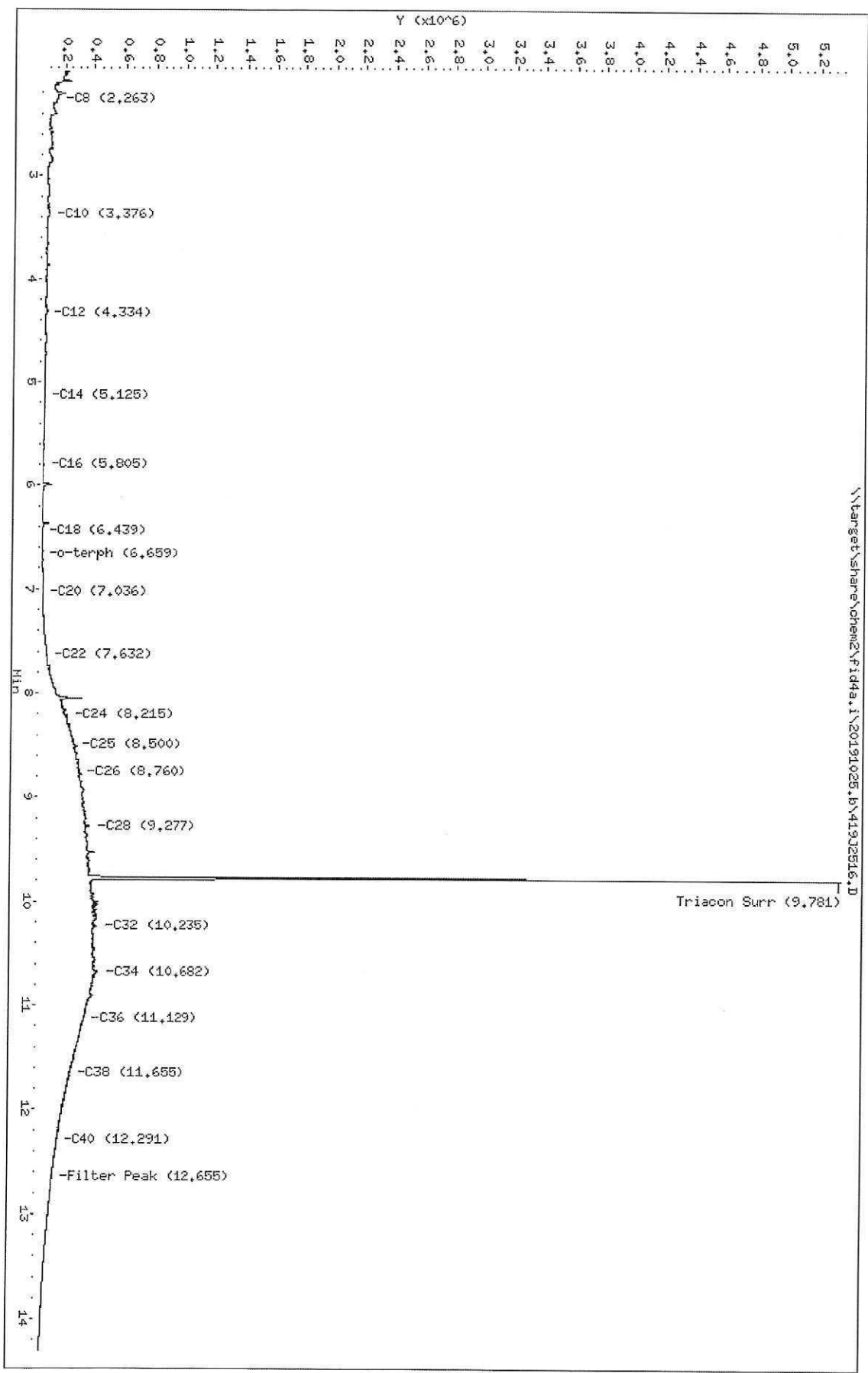


Datafile: FID4A, 20191025.b/419J2515.D Injection: 25-OCT-2019 16:33
 Lab ID: SHJ0406-CAL8



Data File: \\target\share\chem2\fid4a.i\20191025.B\419J2516.D
 Date: 25-OCT-2019 16:53
 Client ID:
 Sample Info: SHJ0406-CAL9
 Column Phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2516.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CAL9
Client ID:
Injection: 25-OCT-2019 16:53
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.263	0.001	85054	58529	WATPHD	(C12-C24)	5661873	35.5
C10	3.376	0.003	38337	74763	WATPHM	(C24-C38)	64308153	484.9
C12	4.334	-0.013	14490	20832	AK102	(C10-C25)	8794999	45.0
C14	5.125	-0.004	9491	6950	AK103	(C25-C36)	54037059	540.5
C16	5.805	-0.002	4594	3625	OR.DIES	(C10-C28)	23868061	121.8
C18	6.439	0.004	1696	642				
C20	7.036	-0.007	7504	9871				
C22	7.632	-0.007	42646	55918				
C24	8.215	0.001	187247	321321				
C25	8.500	0.007	242499	189952				
C26	8.760	-0.005	272862	175979				
C28	9.277	-0.008	344800	562248				
C32	10.235	-0.007	399681	717669				
C34	10.682	0.001	410565	682394				
Filter Peak	12.655	0.004	112959	178875	CREOSOT	(C12-C22)	1771420	454.1
C36	11.129	-0.000	318612	63696				
C38	11.655	0.005	227739	158292				
C40	12.291	0.002	146308	65396				
o-terph	6.659	0.002	1793	1646				
Triacon Surr	9.781	-0.021	4947832	3881047	NAS DIES	(C10-C24)	6718189	34.4

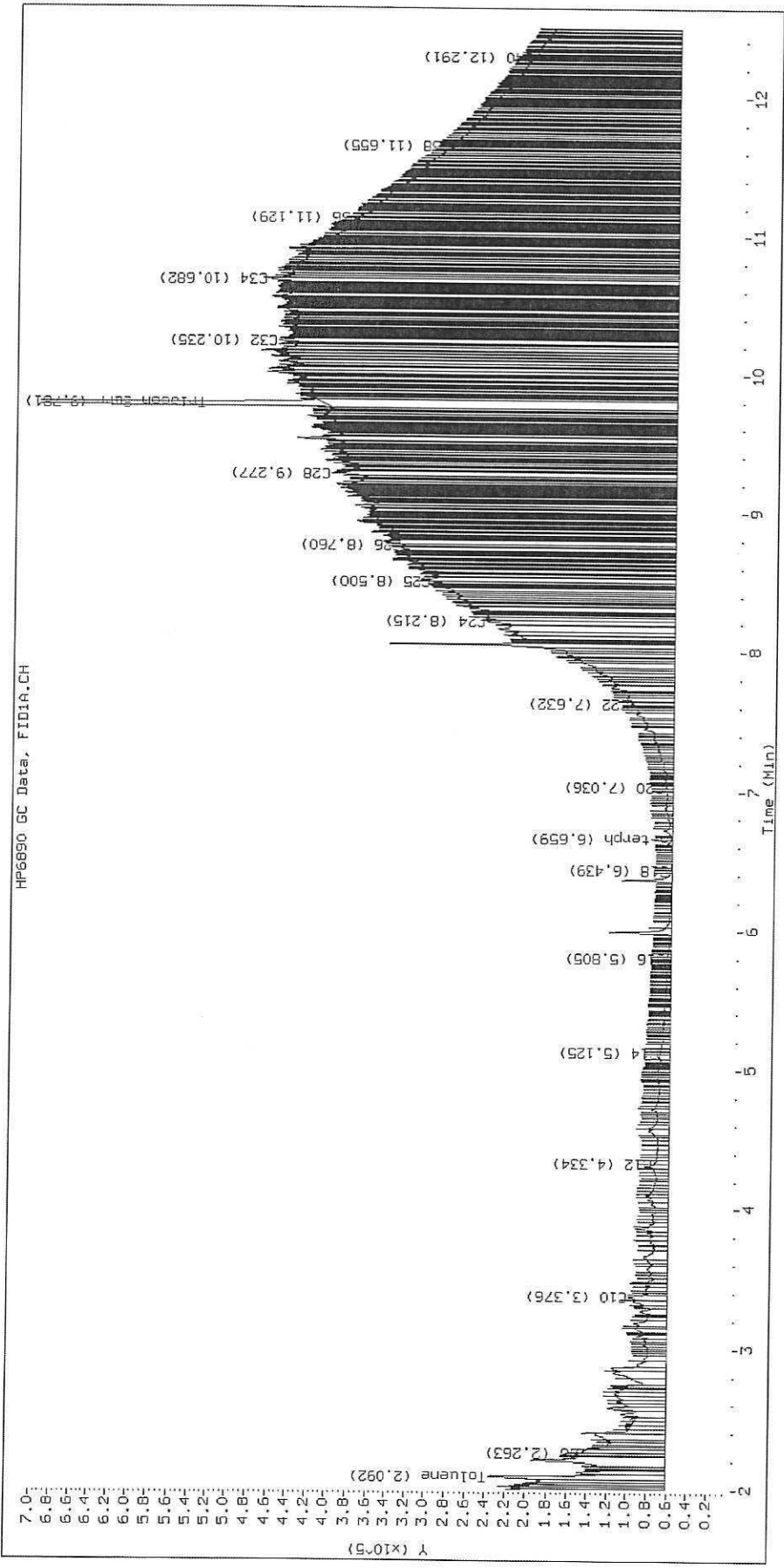
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	1646	0.0
Triacontane	3881047	21.8 M

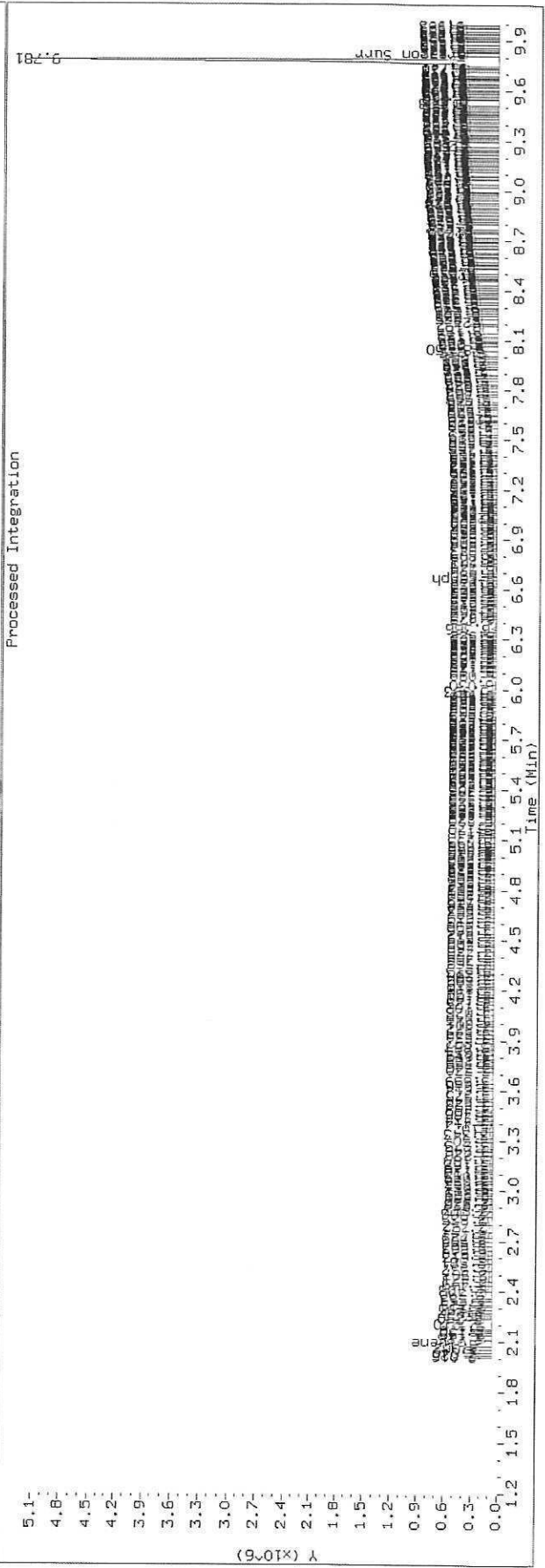
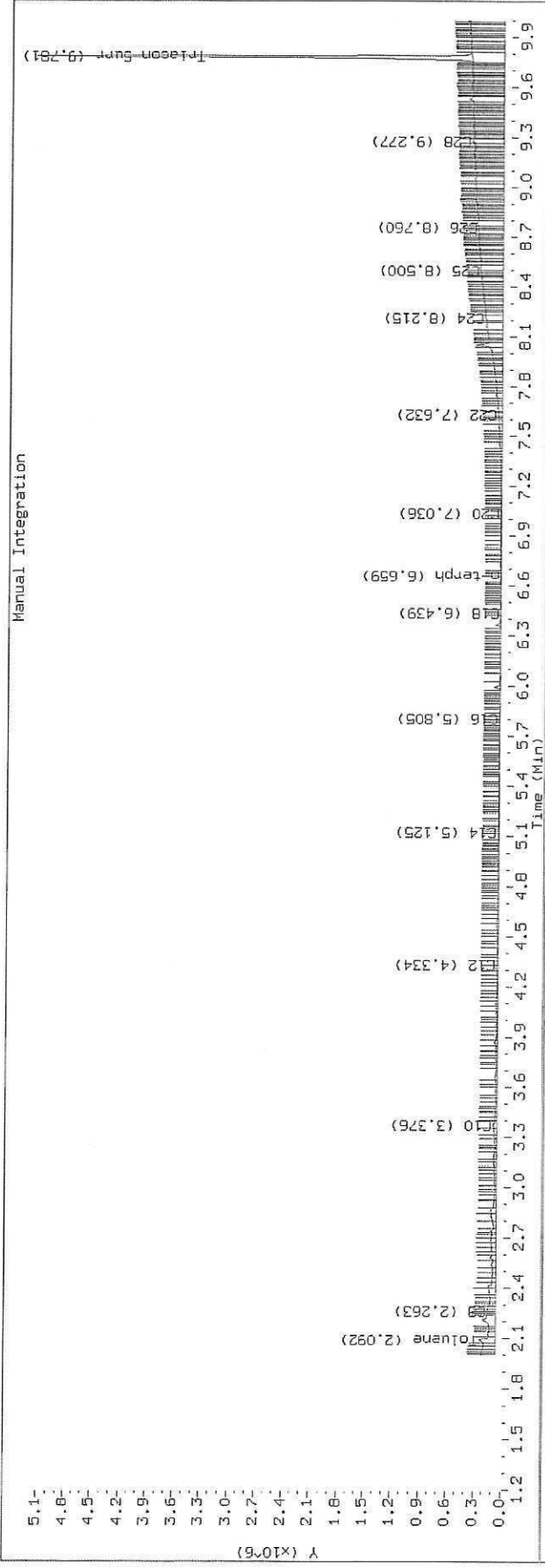
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2516.D SHJ0406-CAL9

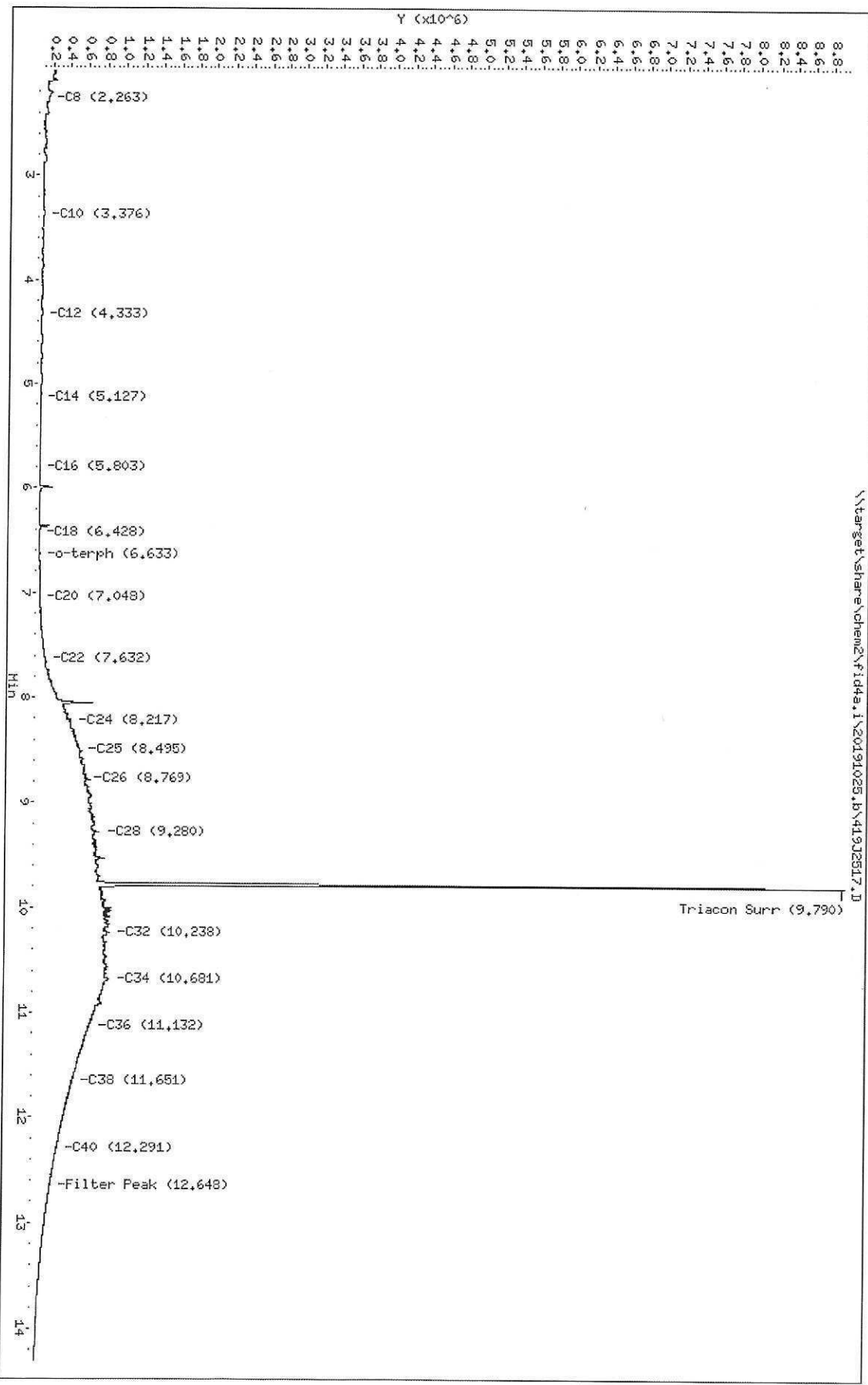


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2516.D Injection: 25-OCT-2019 16:53
 Lab ID:SHJ0406-CAL9



Data File: \\target\share\chem2\f1d4a.1\20191025.b\419J2517.D
 Date : 25-OCT-2019 17:13
 Client ID:
 Sample Info: SHJ0406-CALLA
 Column phase: RTX-1

Instrument: f1d4a.i
 Operator: CTG/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2517.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALA
Client ID:
Injection: 25-OCT-2019 17:13
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.263	0.001	78760	49973	WATPHD	(C12-C24)	11050301	69.4
C10	3.376	0.003	33282	53155	WATPHM	(C24-C38)	130458600	983.6
C12	4.333	-0.014	8330	11675	AK102	(C10-C25)	16134883	82.5
C14	5.127	-0.003	6869	8015	AK103	(C25-C36)	110338631	1103.6
C16	5.803	-0.004	4269	6183	OR.DIES	(C10-C28)	47155868	240.6
C18	6.428	-0.006	4035	4694				
C20	7.048	0.005	16630	12336				
C22	7.632	-0.007	93050	108452				
C24	8.217	0.002	386378	321791				
C25	8.495	0.002	491396	292213				
C26	8.769	0.005	557751	166690				
C28	9.280	-0.005	695698	804868				
C32	10.238	-0.005	823126	997439				
C34	10.681	-0.000	821771	761528				
Filter Peak	12.648	-0.002	202612	170825	CREOSOT	(C12-C22)	2854310	731.7
C36	11.132	0.003	625826	249171				
C38	11.651	0.001	444433	177367				
C40	12.291	0.002	276466	164427				
o-terph	6.633	-0.023	11730	15135				
Triacon Surr	9.790	-0.012	8190520	7927188	NAS DIES	(C10-C24)	11670623	59.8

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	15135	0.1
Triacotane	7927188	44.5 M

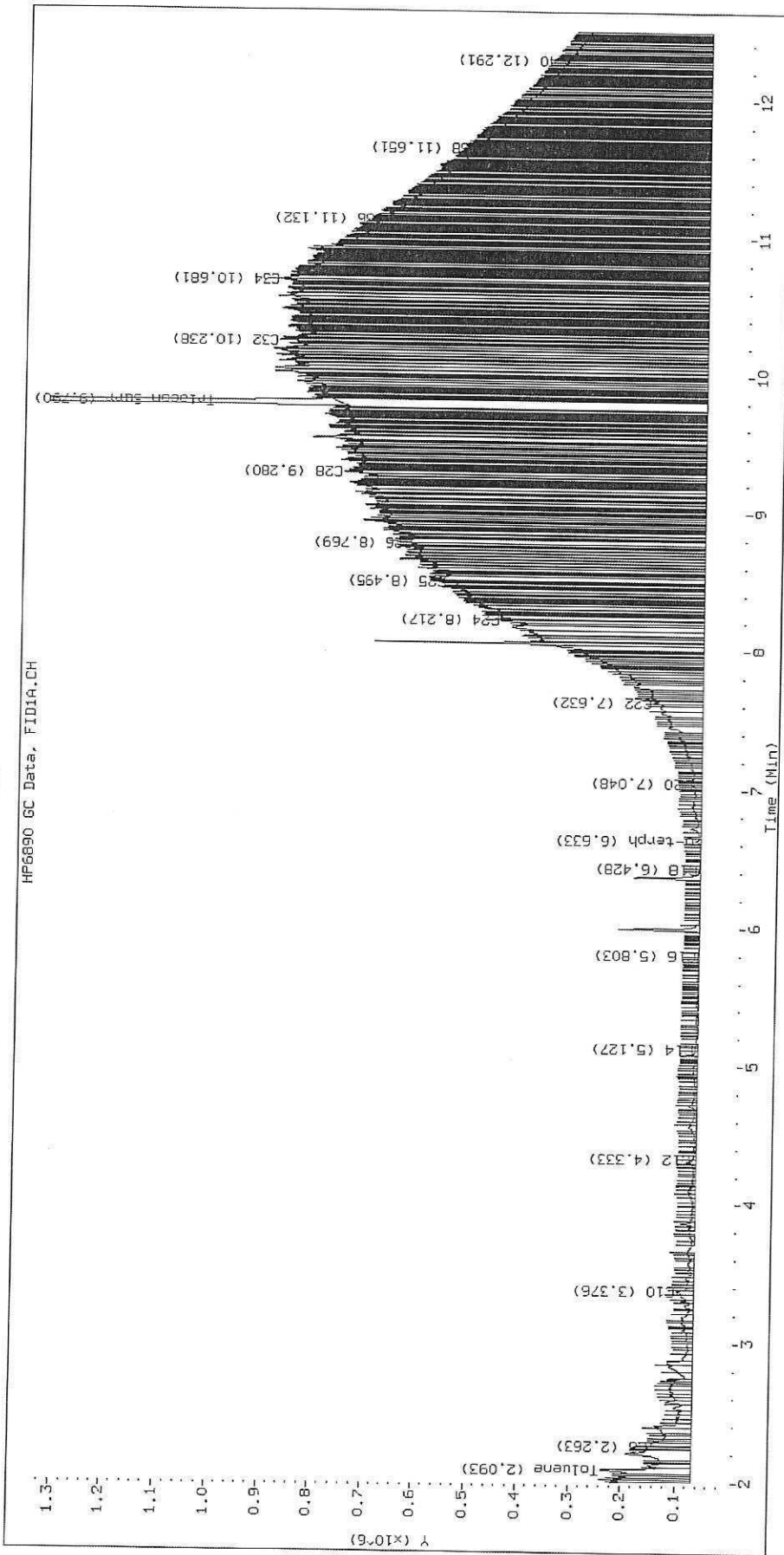
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

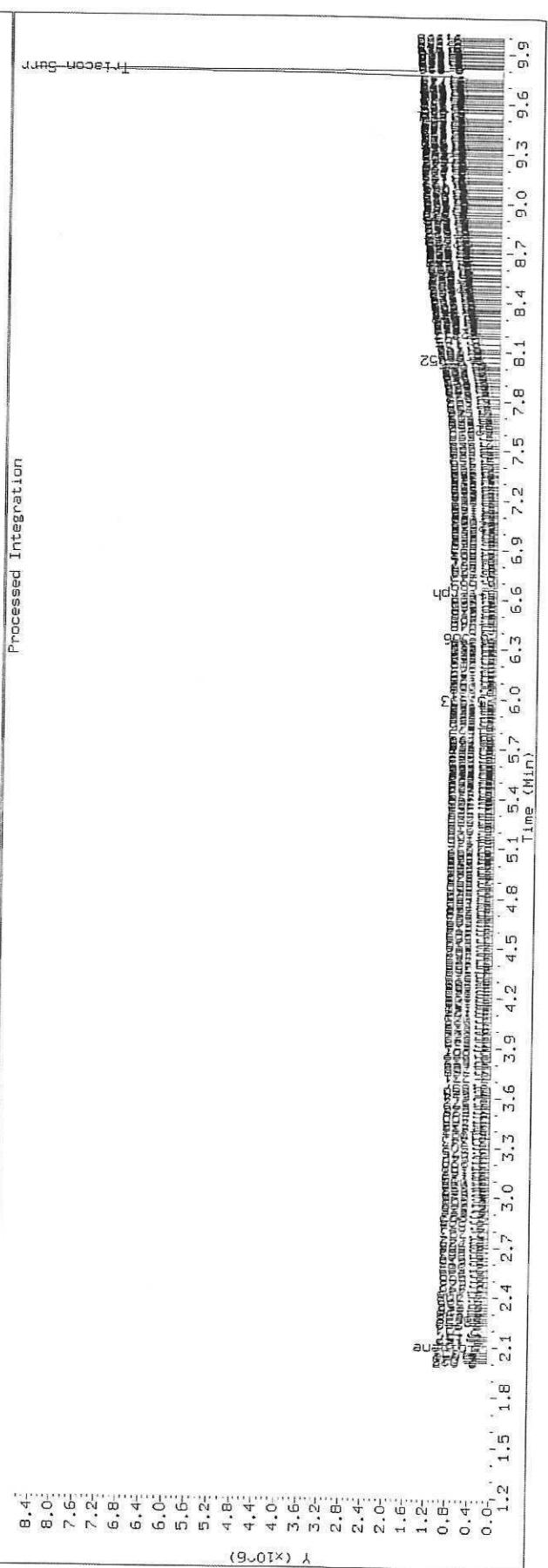
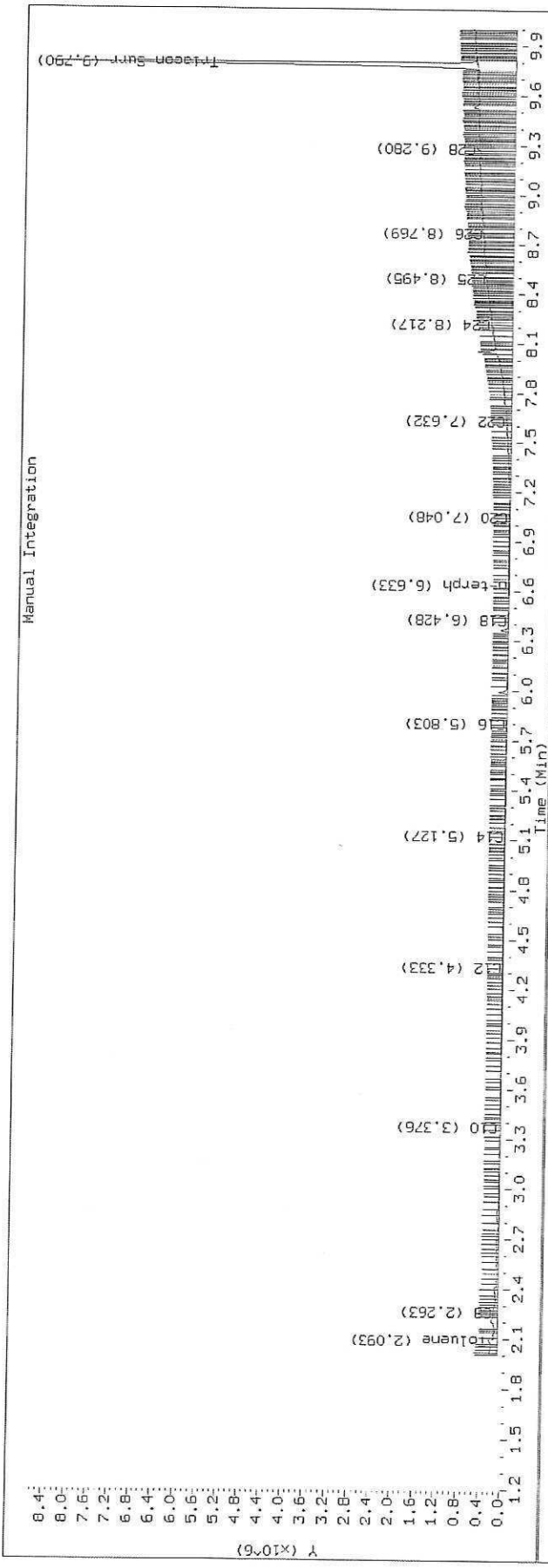
Datafile: FID4A, 20191025.b/419J2517.D

SHJ0406-CALA

HF6890 GC Data, FID1A.CH

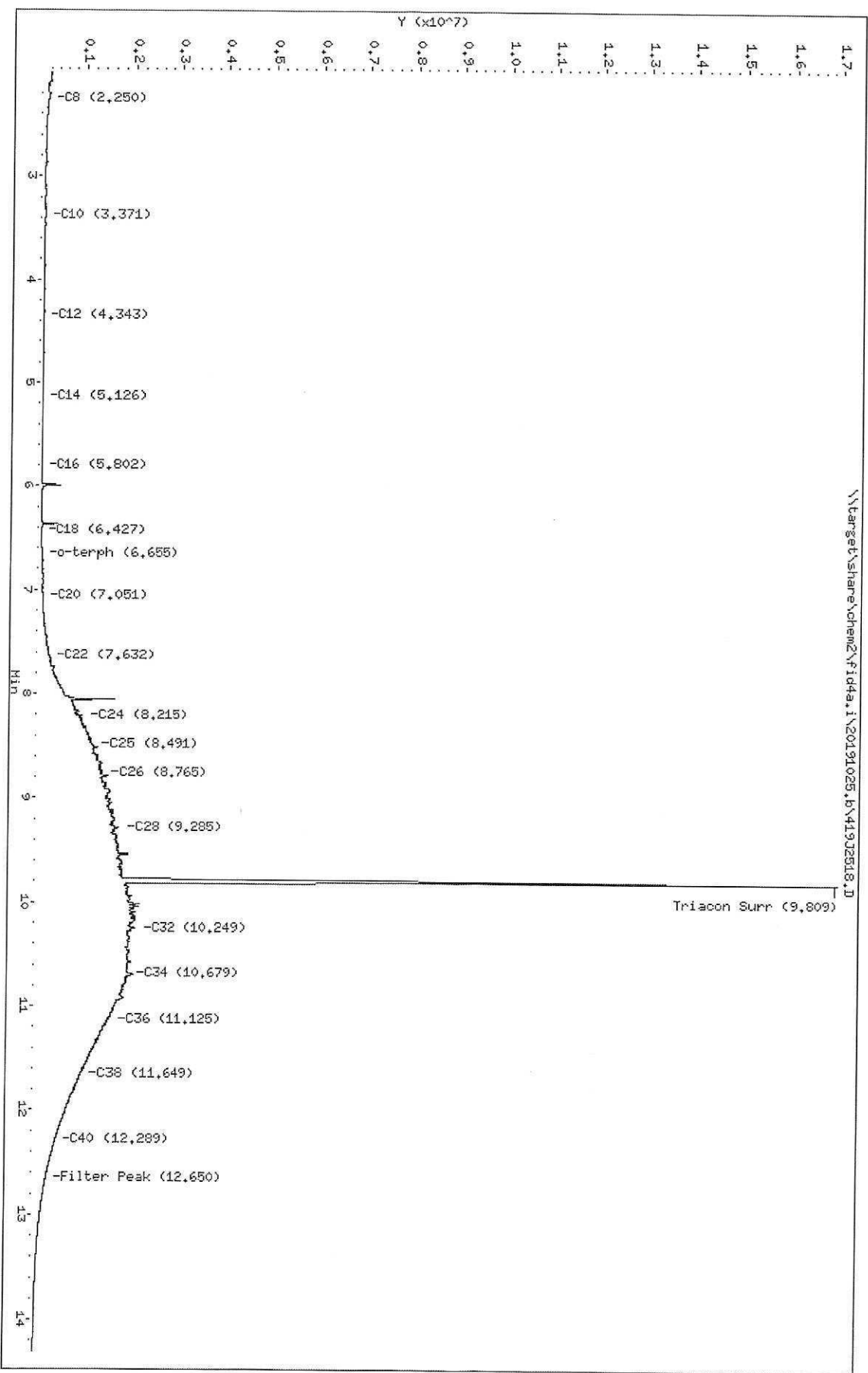


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2517.D Injection: 25-OCT-2019 17:13
 Lab ID: SHJ0406-CALA



Data File: \\target\share\chem2\fid4a.i\20191025.b\41932518.D
 Date: 25-OCT-2019 17:34
 Client ID:
 Sample Info: SHJ0406-CALB
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTG/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2518.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALB
Client ID:
Injection: 25-OCT-2019 17:34
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.250	-0.012	77817	116710	WATPHD	(C12-C24)	27251753	171.0
C10	3.371	-0.002	31760	39598	WATPHM	(C24-C38)	331873325	2502.2
C12	4.343	-0.004	6520	6156	AK102	(C10-C25)	38872526	198.8
C14	5.126	-0.004	7874	9340	AK103	(C25-C36)	281447225	2815.1
C16	5.802	-0.005	7984	9771	OR.DIES	(C10-C28)	115893490	591.3
C18	6.427	-0.007	14076	14289				
C20	7.051	0.008	46537	34495				
C22	7.632	-0.007	235207	295349				
C24	8.215	0.000	955047	900361				
C25	8.491	-0.002	1184503	236628				
C26	8.765	0.000	1401067	1730192				
C28	9.285	-0.001	1743563	2775911				
C32	10.249	0.007	2106415	3055227				
C34	10.679	-0.002	1974576	1267121				
Filter Peak	12.650	-0.001	278159	124338	CREOSOT	(C12-C22)	6708937	1719.8
C36	11.125	-0.004	1581807	1021345				
C38	11.649	-0.001	1027941	256759				
C40	12.289	0.000	486929	193205				
o-terph	6.655	-0.002	18811	15731				
Triacon Surr	9.809	0.007	15056726	20120024	NAS DIES	(C10-C24)	27786026	142.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

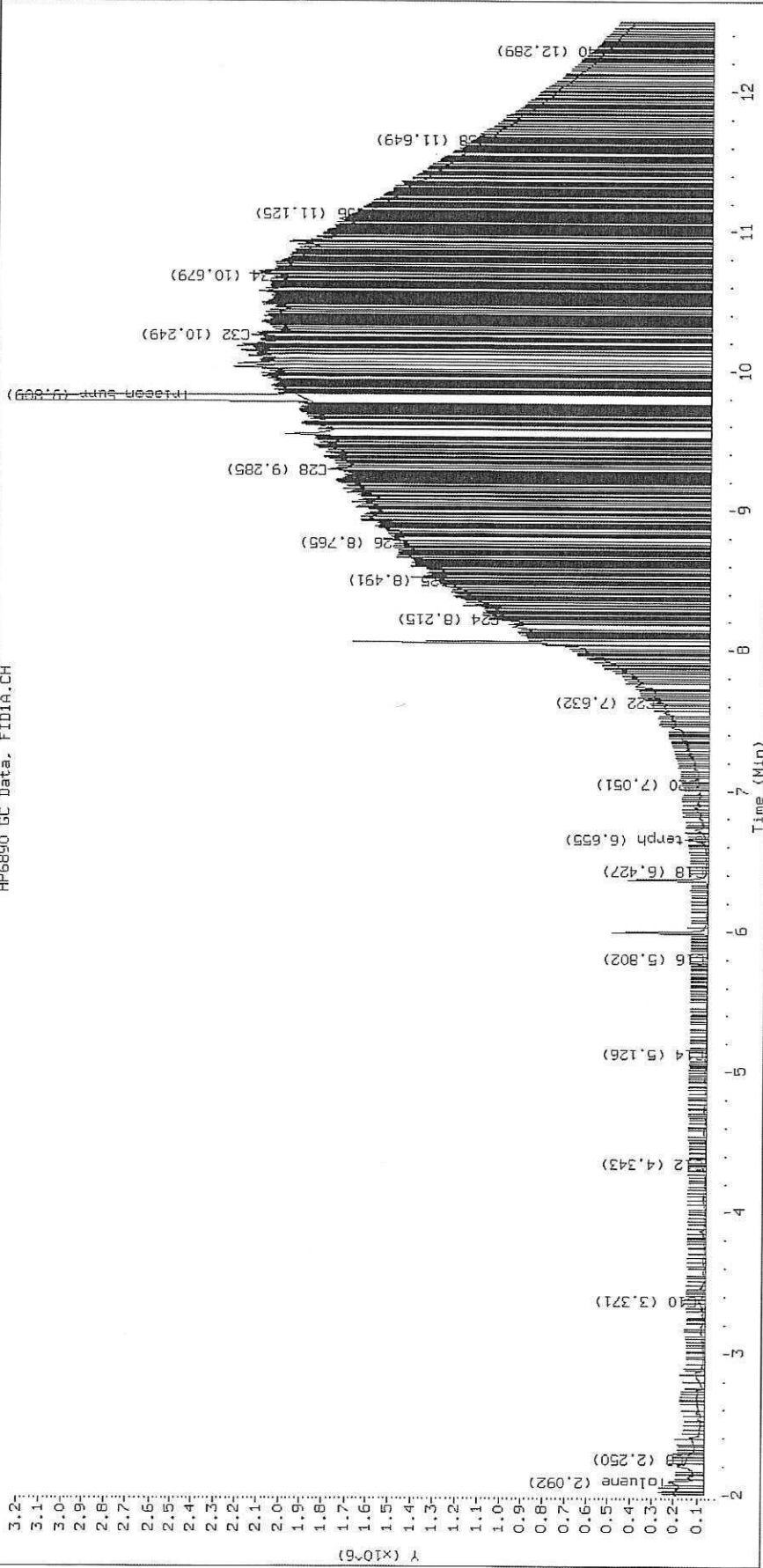
Surrogate	Area	Amount
o-Terphenyl	15731	0.1
Triacontane	20120024	113.0 M

M Indicates the peak was manually integrated

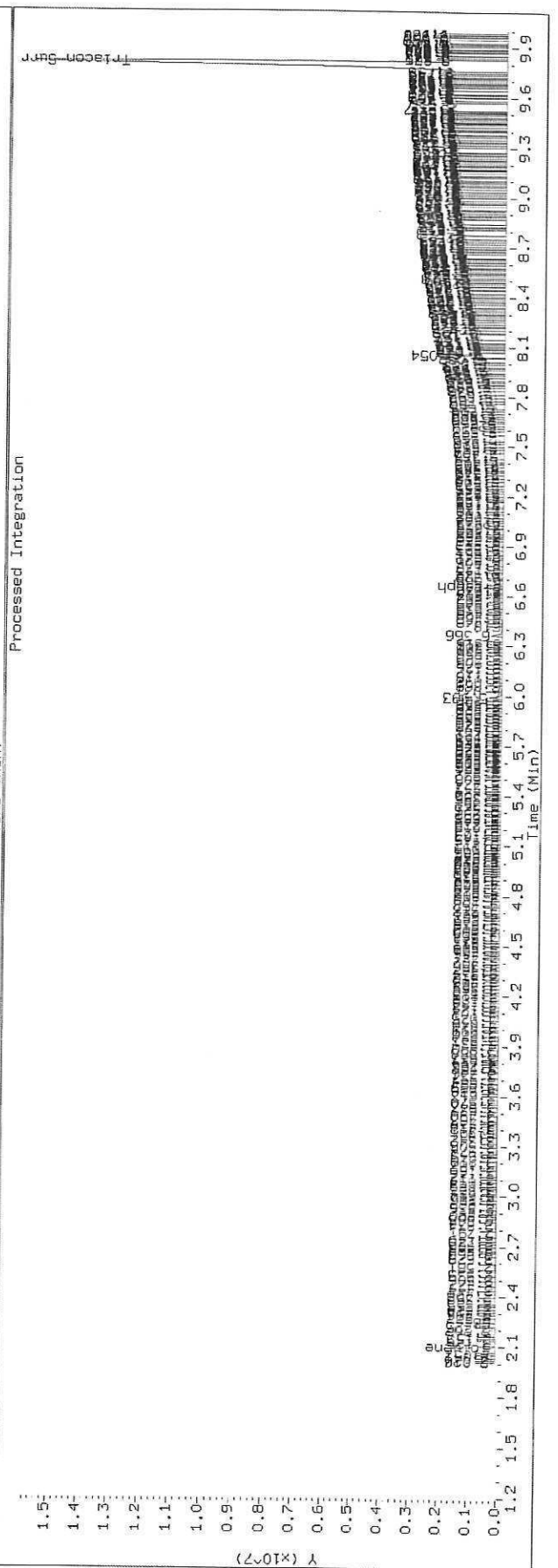
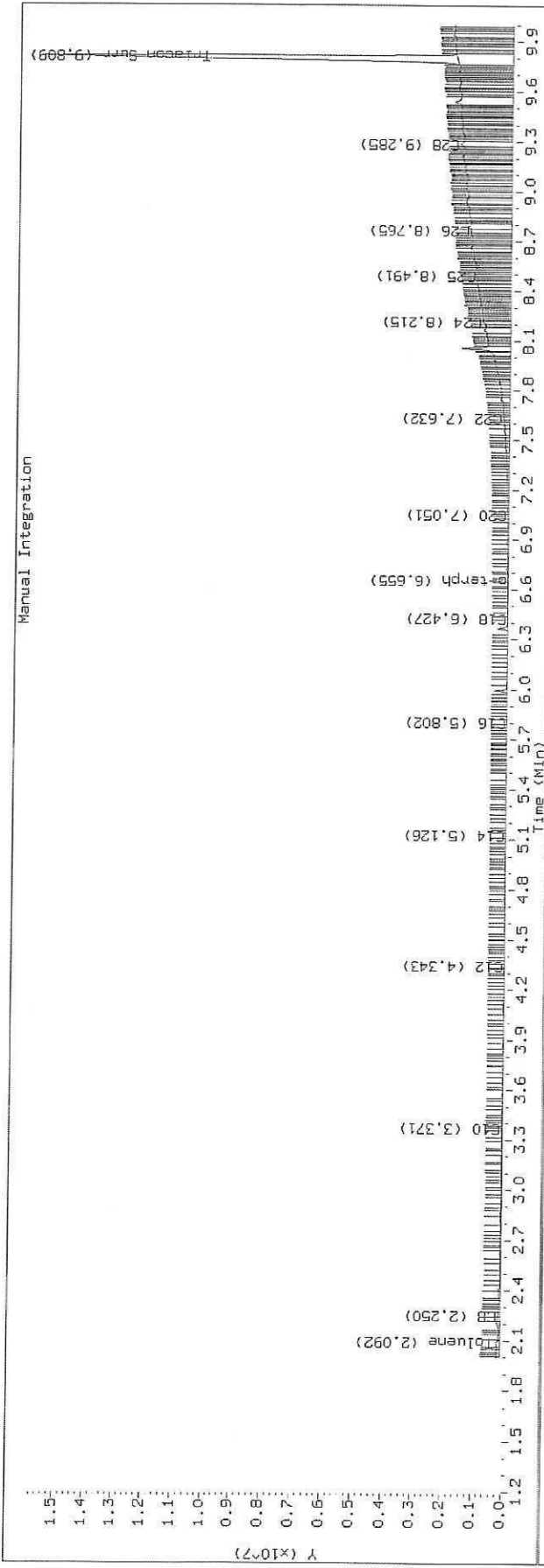
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2518.D SHJ0406-CALB

HP6890 GC Data, FID1A.CH

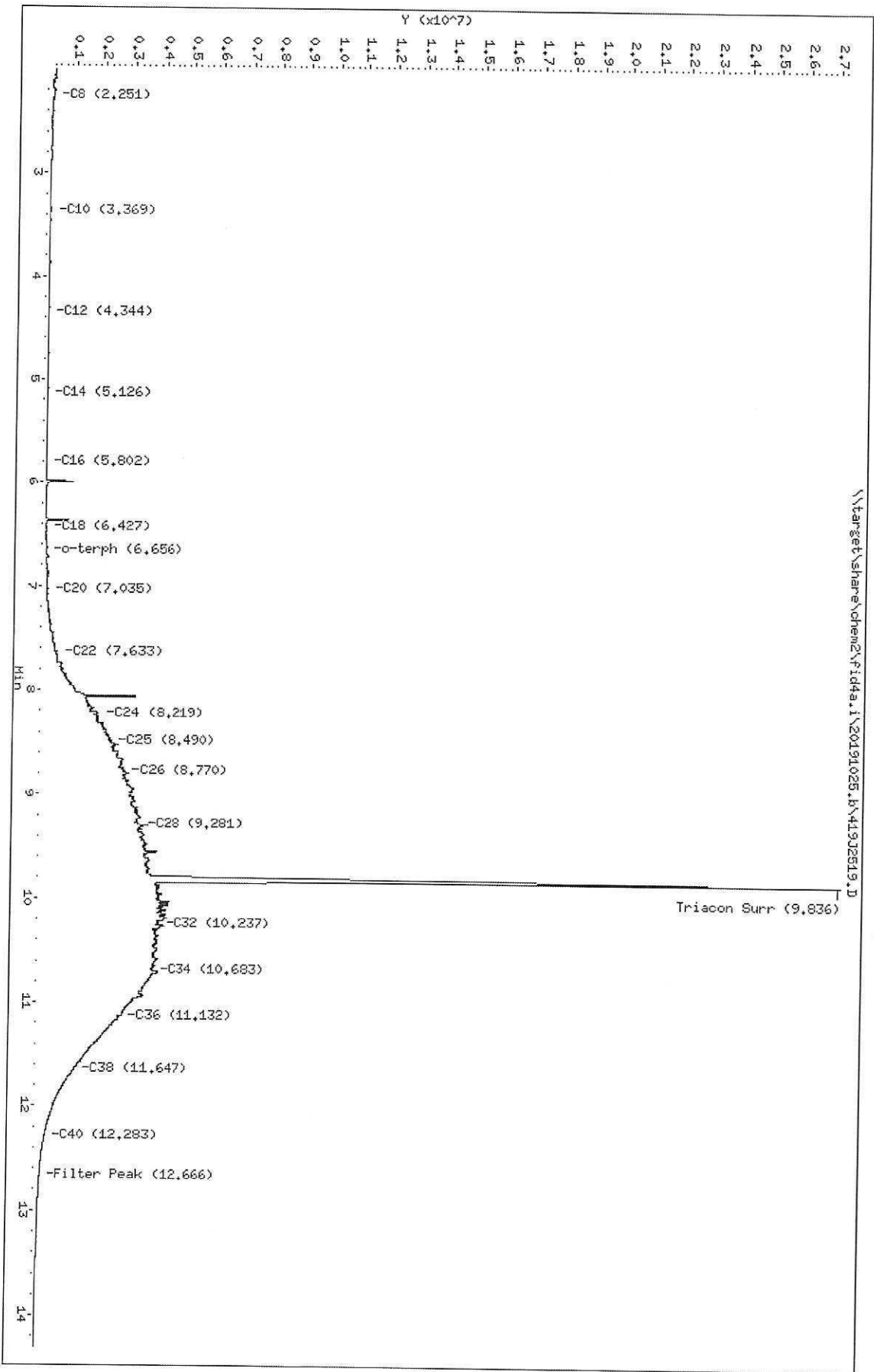


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2518.D Injection: 25-OCT-2019 17:34
 Lab ID: SHJ0406-CALB



Data File: \\target\share\chem2\fid4a.i\20191025.bv419J2519.J
 Date: 25-OCT-2019 17:54
 Client ID:
 Sample Info: SHJ0408-CALC
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CT0/SH/VTS/JCR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2519.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALC
Client ID:
Injection: 25-OCT-2019 17:54
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.251	-0.011	83410	131526	WATPHD	(C12-C24)	54951988	344.9
C10	3.369	-0.004	40067	53627	WATPHM	(C24-C38)	647842842	4884.5
C12	4.344	-0.003	8504	8688	AK102	(C10-C25)	79702569	407.7
C14	5.126	-0.004	19567	26129	AK103	(C25-C36)	565644605	5657.8
C16	5.802	-0.006	21777	24178	OR.DIES	(C10-C28)	235116720	1199.6
C18	6.427	-0.008	35077	33036				
C20	7.035	-0.008	119620	119856				
C22	7.633	-0.006	481948	602675				
C24	8.219	0.004	1952483	1661789				
C25	8.490	-0.003	2383743	592688				
C26	8.770	0.005	2837167	1694204				
C28	9.281	-0.005	3377335	3333438				
C32	10.237	-0.006	4076731	3428537				
C34	10.683	0.002	3869795	1544856				
Filter Peak	12.666	0.015	116179	102746	CREOSOT	(C12-C22)	14260161	3655.6
C36	11.132	0.003	2846055	707761				
C38	11.647	-0.002	1313112	715795				
C40	12.283	-0.006	302346	281489				
o-terph	6.656	-0.001	43010	66343				
Triacon Surr	9.836	0.034	23293566	39698048	NAS DIES	(C10-C24)	55485985	284.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

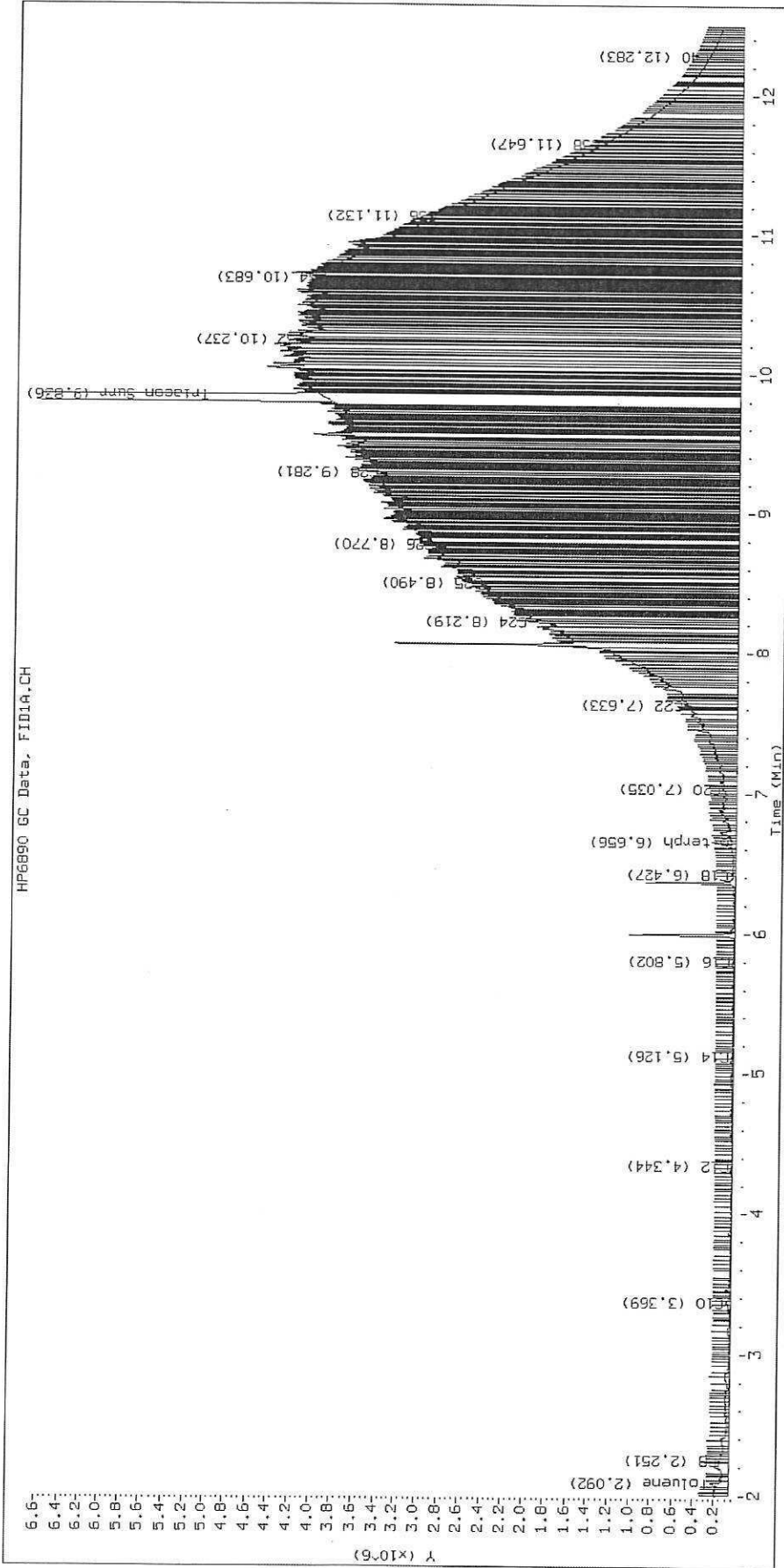
Surrogate	Area	Amount
o-Terphenyl	66343	0.3
Triacotane	39698048	223.0 M

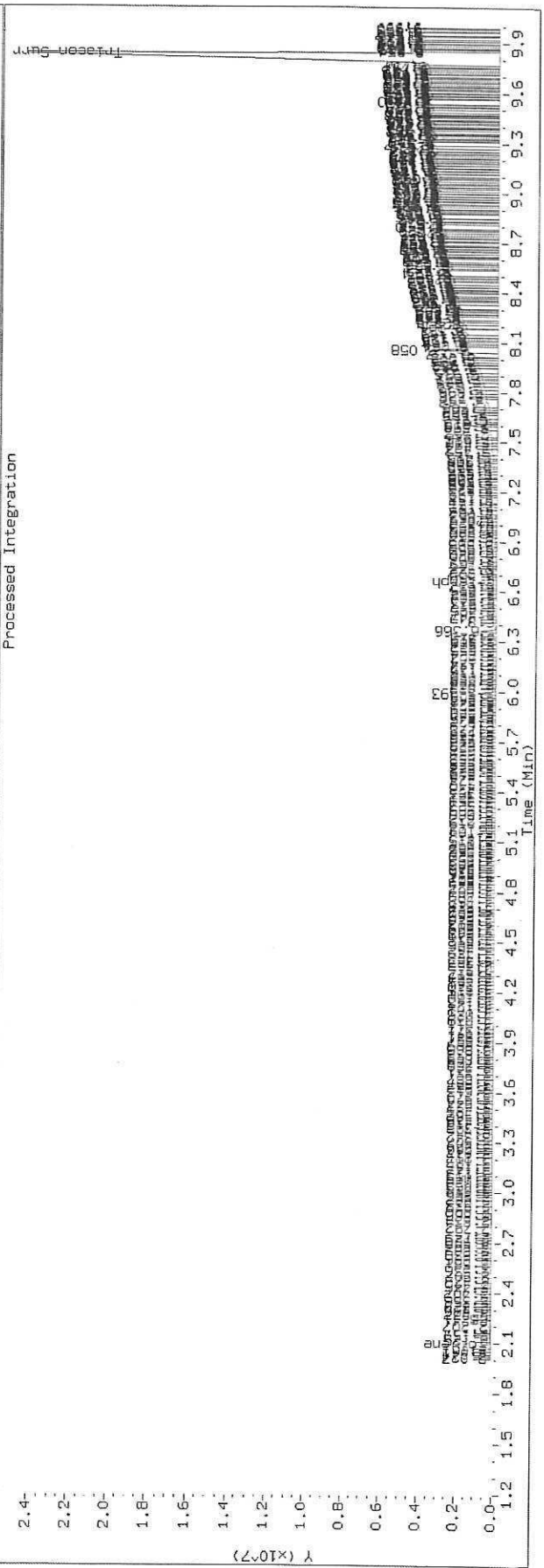
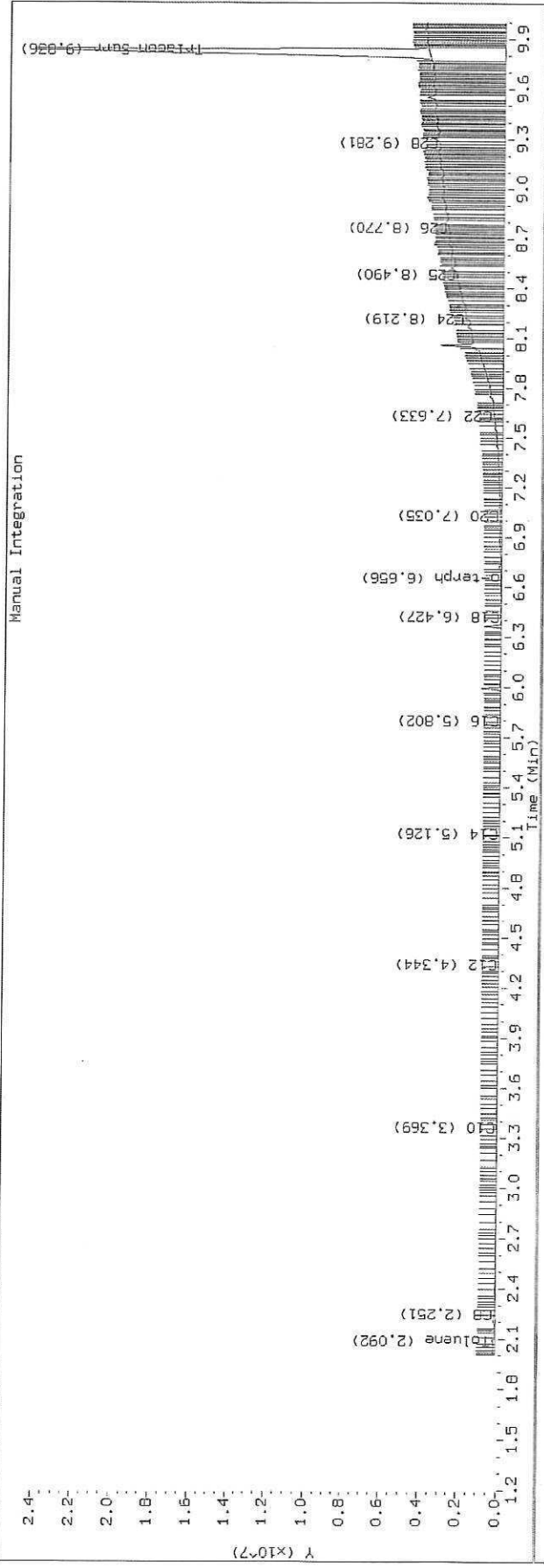
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2519.D SHJ0406-CALC

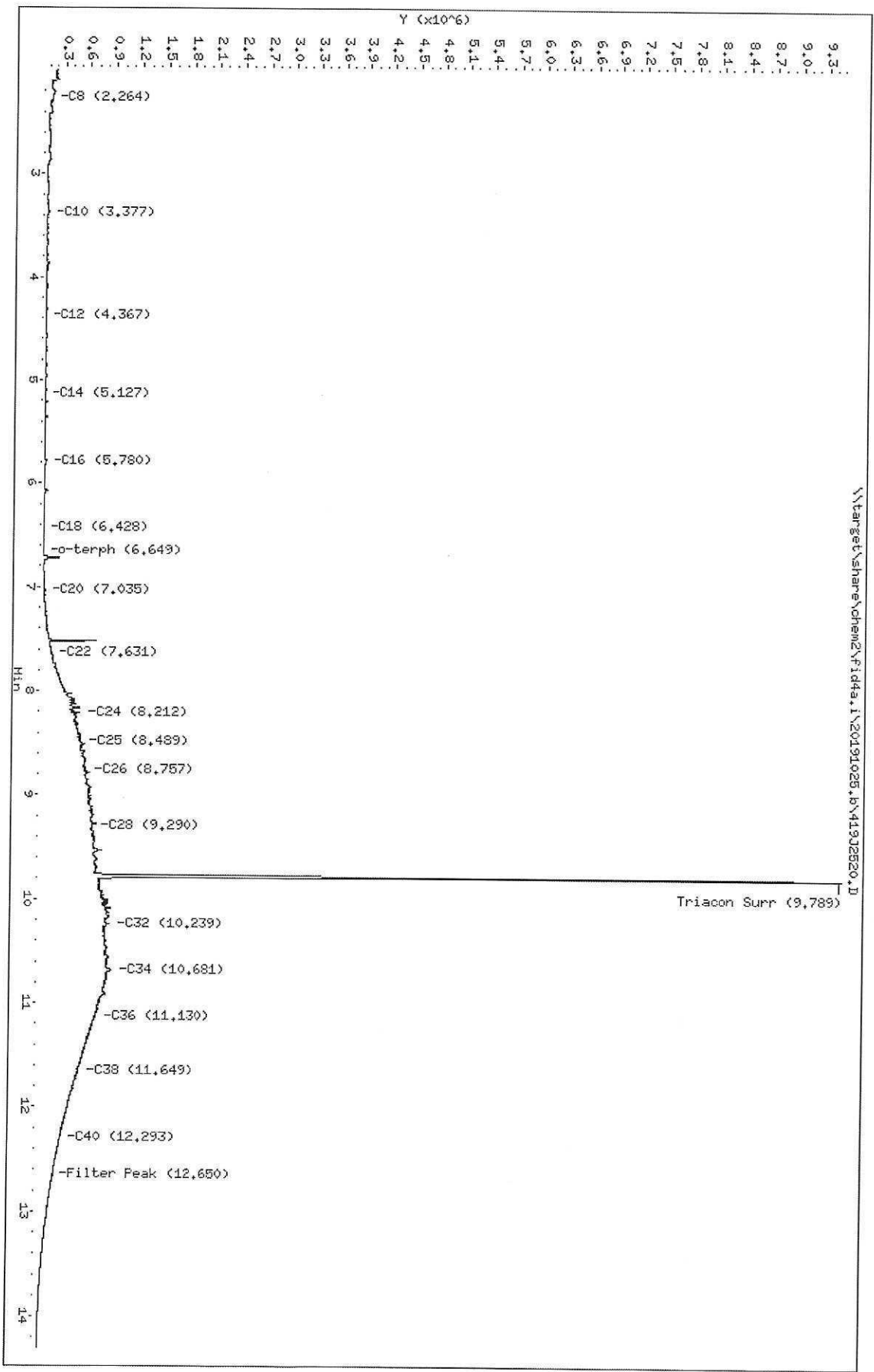
HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2520.D
 Date : 25-OCT-2019 18:14
 Client ID:
 Sample Info: SHJ0406-SCV2
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/MTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2520.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV2
Client ID:
Injection: 25-OCT-2019 18:14
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61386	42202	WATPHD	(C12-C24)	14006466	87.9
C10	3.377	0.004	28038	52387	WATPHM	(C24-C38)	135195593	1019.3
C12	4.367	0.020	3146	3151	AK102	(C10-C25)	18822986	96.3
C14	5.127	-0.003	4143	4458	AK103	(C25-C36)	113030798	1130.6
C16	5.780	-0.027	35494	74348	OR.DIES	(C10-C28)	49340102	251.7
C18	6.428	-0.007	6156	6874				
C20	7.035	-0.008	26093	30304				
C22	7.631	-0.008	127794	247657				
C24	8.212	-0.003	471017	746279				
C25	8.489	-0.004	491516	98217				
C26	8.757	-0.008	557900	550938				
C28	9.290	0.005	640615	223711				
C32	10.239	-0.004	847729	1306304				
C34	10.681	-0.000	865603	764427				
Filter Peak	12.650	-0.000	213232	84835	CREOSOT	(C12-C22)	3605357	924.2
C36	11.130	0.001	692159	413129				
C38	11.649	-0.001	503231	200454				
C40	12.293	0.004	305287	287895				
o-terph	6.649	-0.008	4022	3699				
Triacon Surr	9.789	-0.013	8762887	8519530	NAS DIES	(C10-C24)	14444503	74.0

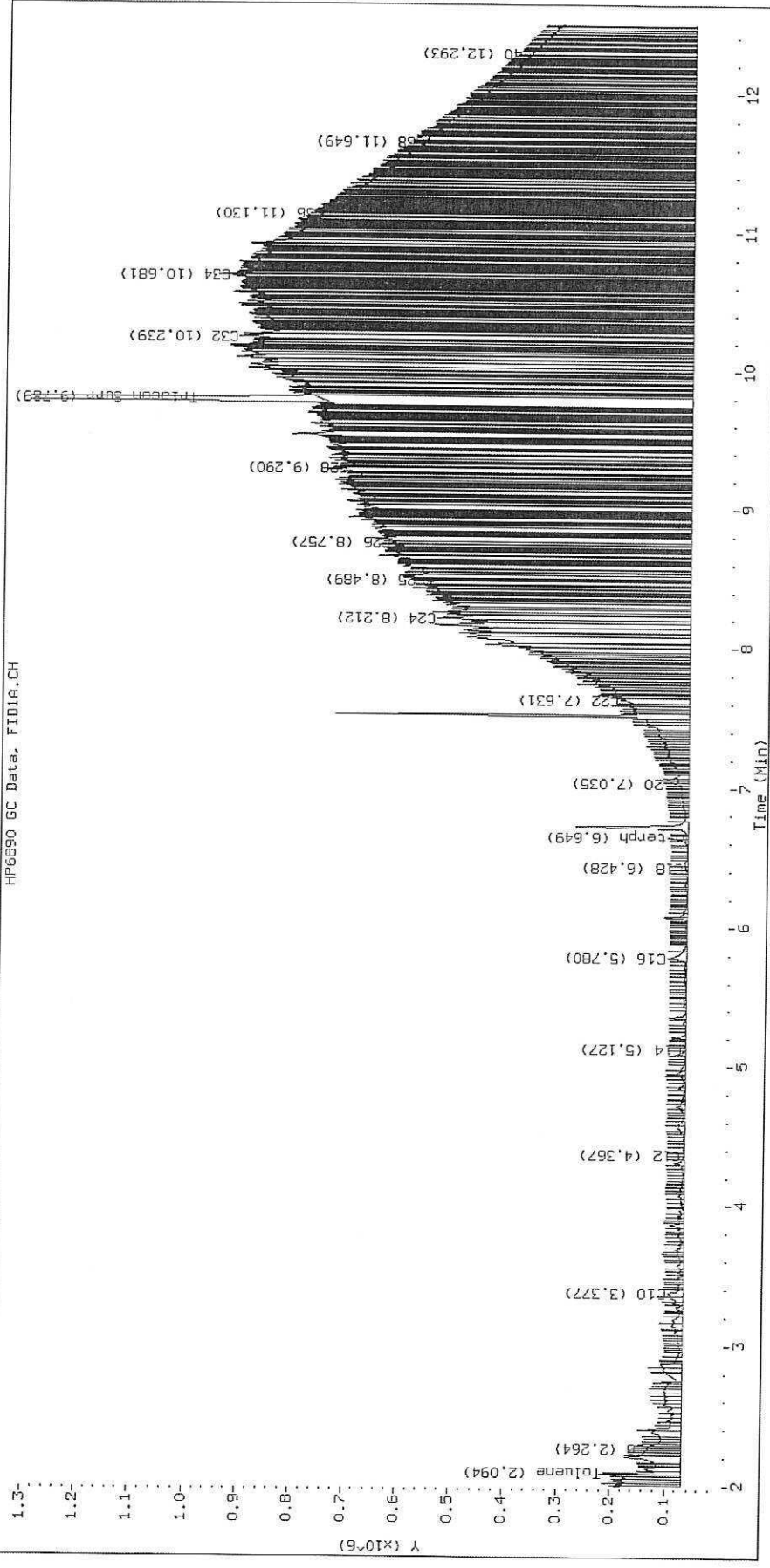
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

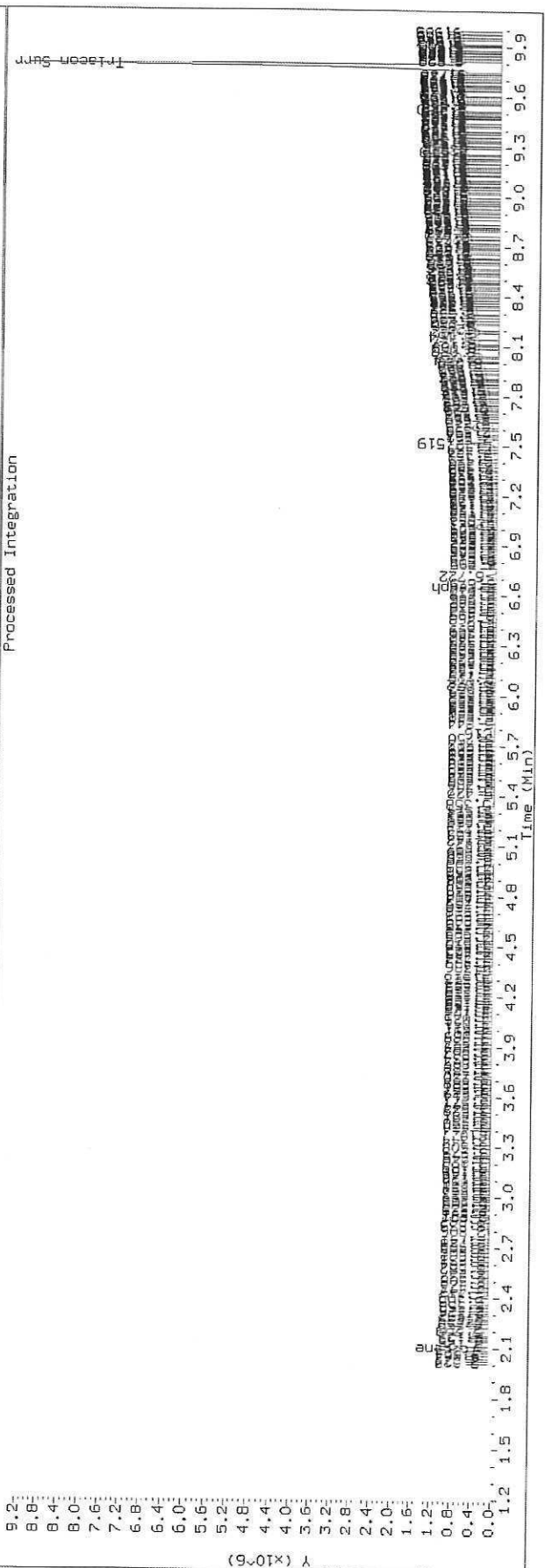
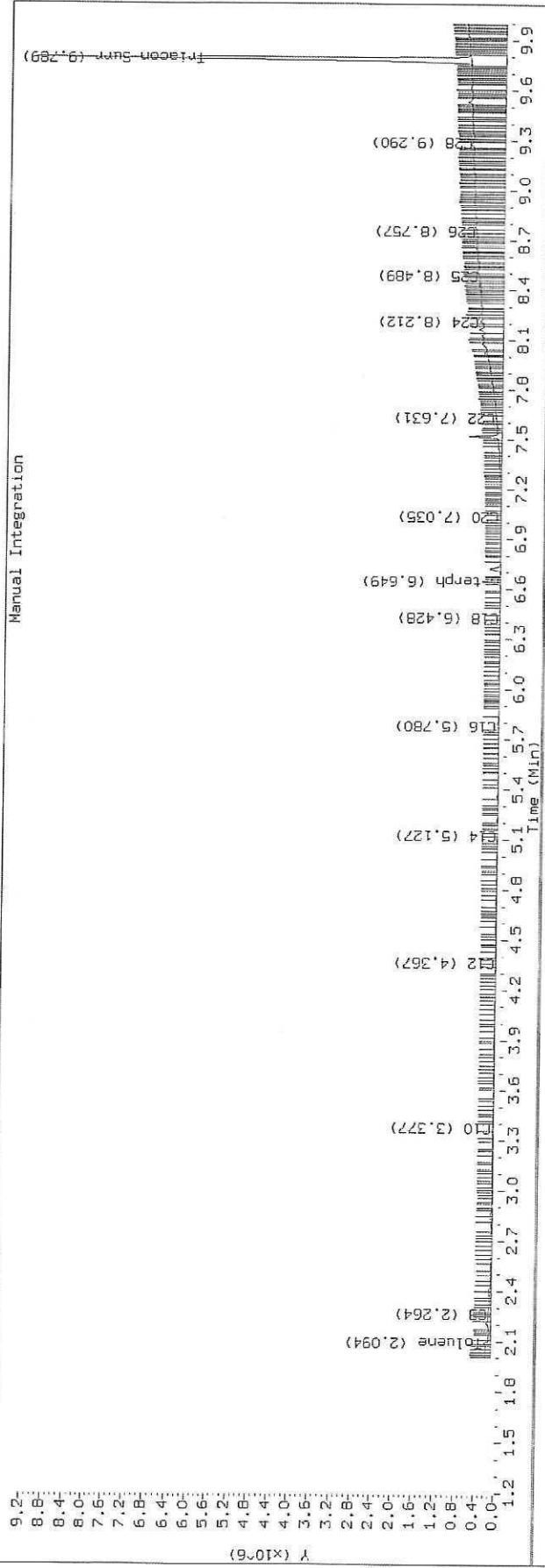
Surrogate	Area	Amount
o-Terphenyl	3699	0.0
Triacontane	8519530	47.9 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

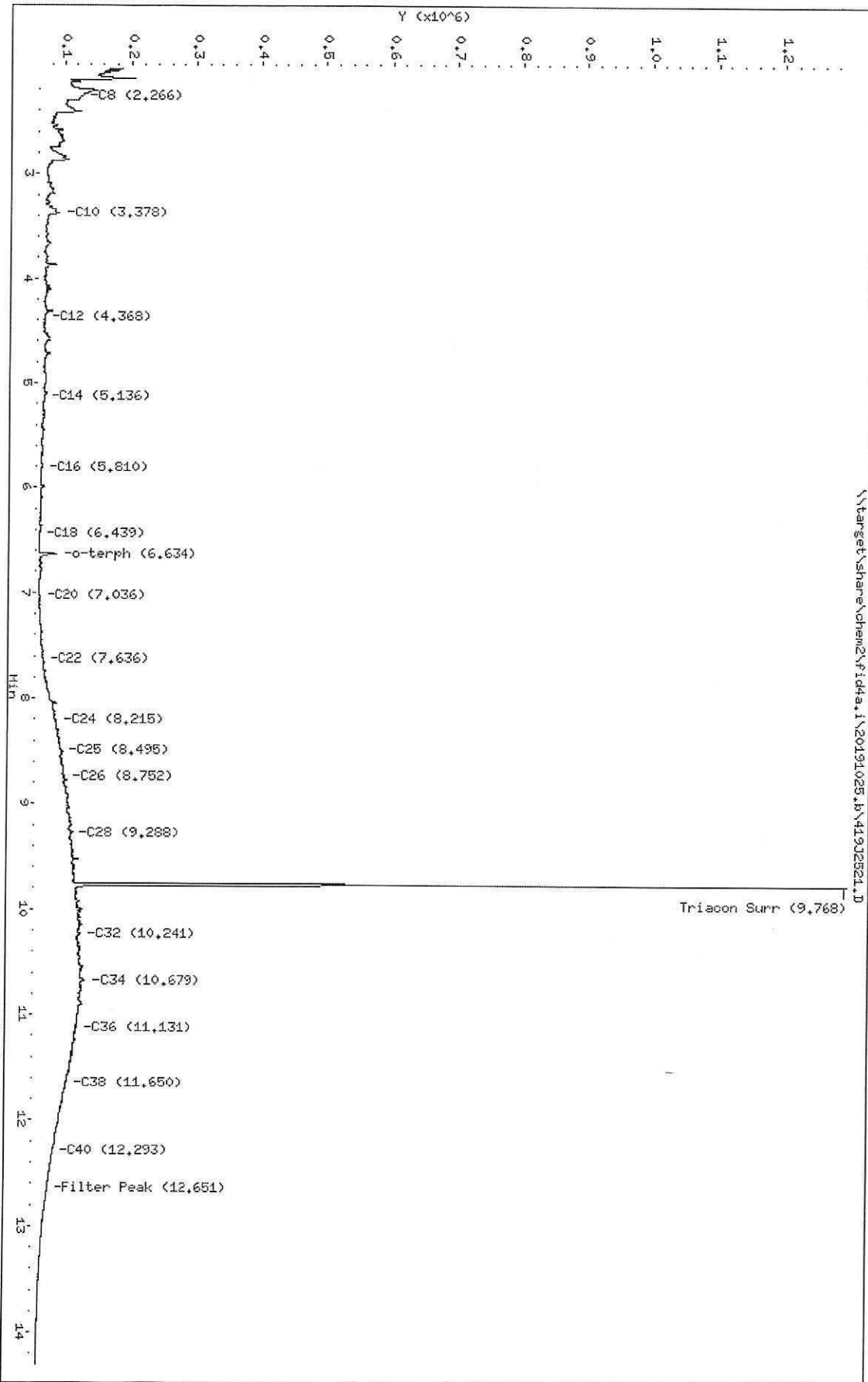
Datafile: FID4A, 20191025.b/419J2520.D SHJ0406-SCV2





Data File: \\target\share\chem2\fid4a.i\20191025.b\41932521.D
Date: 25-OCT-2019 18:35
Client ID:
Sample Info: SHJ0406-CALLD
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2521.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALD
Client ID:
Injection: 25-OCT-2019 18:35
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.266	0.003	63130	43308	WATPHD	(C12-C24)	1323968	8.3
C10	3.378	0.005	28879	54645	WATPHM	(C24-C38)	12086307	91.1
C12	4.368	0.021	6558	8293	AK102	(C10-C25)	2265512	11.6
C14	5.136	0.007	6204	3069	AK103	(C25-C36)	9919700	99.2
C16	5.810	0.003	3258	3063	OR.DIES	(C10-C28)	4756055	24.3
C18	6.439	0.004	920	449				
C20	7.036	-0.007	1277	1180				
C22	7.636	-0.003	8777	15968				
C24	8.215	0.000	31726	51380				
C25	8.495	0.002	39977	33338				
C26	8.752	-0.012	45255	53640				
C28	9.288	0.003	56620	22552				
C32	10.241	-0.002	70490	38594				
C34	10.679	-0.002	78226	83978				
Filter Peak	12.651	0.000	22108	8817	CREOSOT	(C12-C22)	689259	176.7
C36	11.131	0.002	66508	16608				
C38	11.650	0.000	52851	23597				
C40	12.293	0.004	31673	31207				
o-terph	6.634	-0.022	28829	34405				
Triacon Surr	9.768	-0.034	1173387	818277	NAS DIES	(C10-C24)	1907173	9.8

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

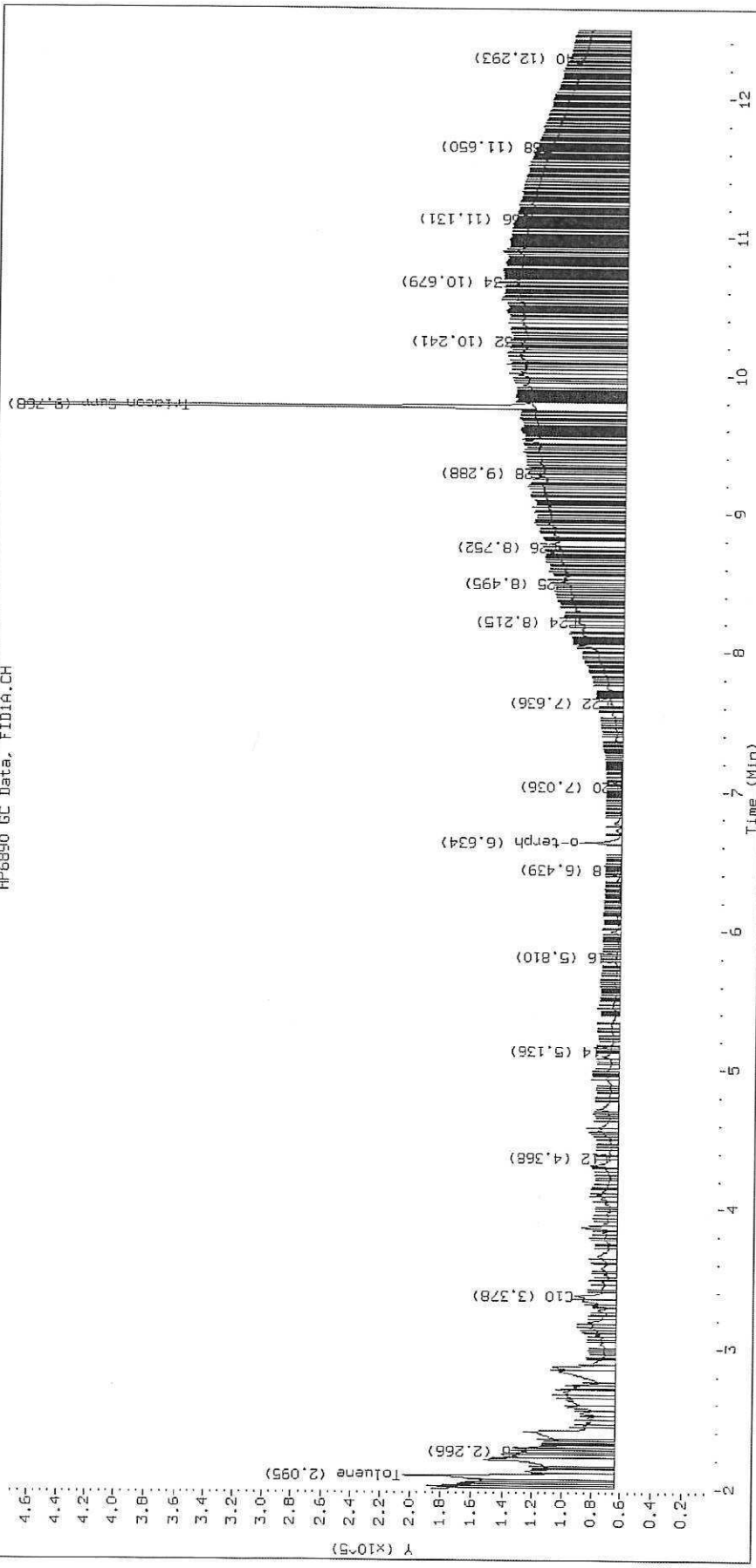
Surrogate	Area	Amount
o-Terphenyl	34405	0.2
Triacotane	818277	4.6 M

M Indicates the peak was manually integrated

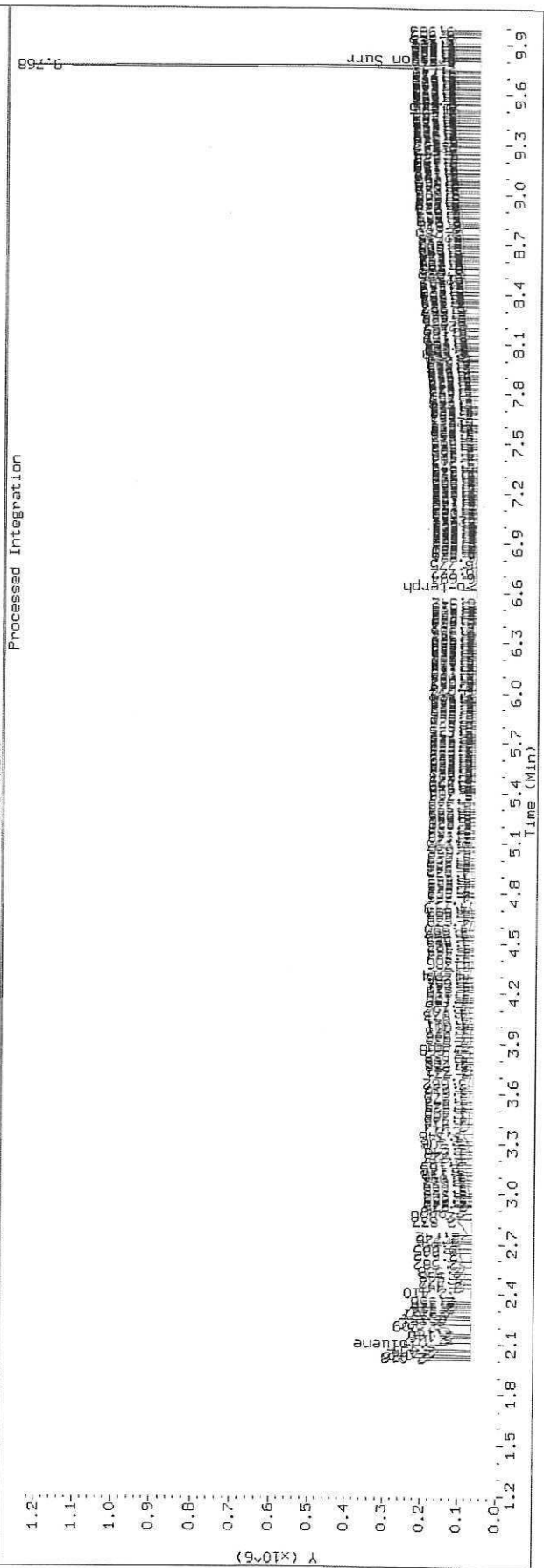
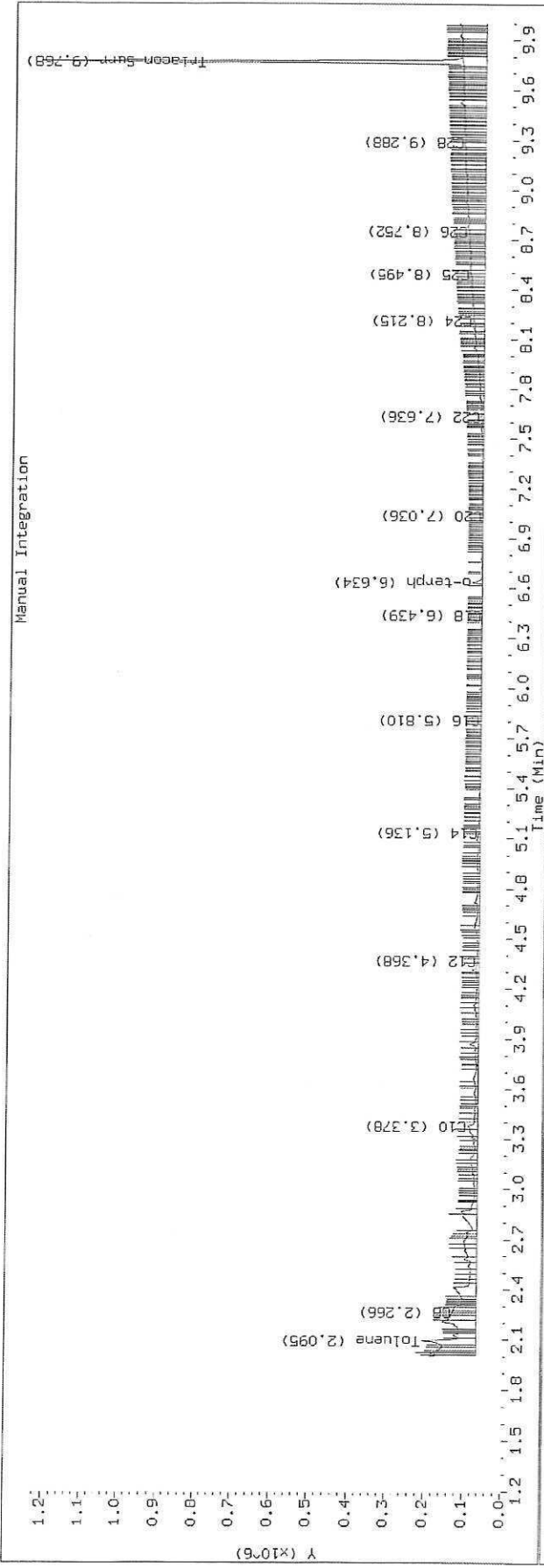
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2521.D SHJ0406-CALD

HP6890 GC Data, FID1A.CH

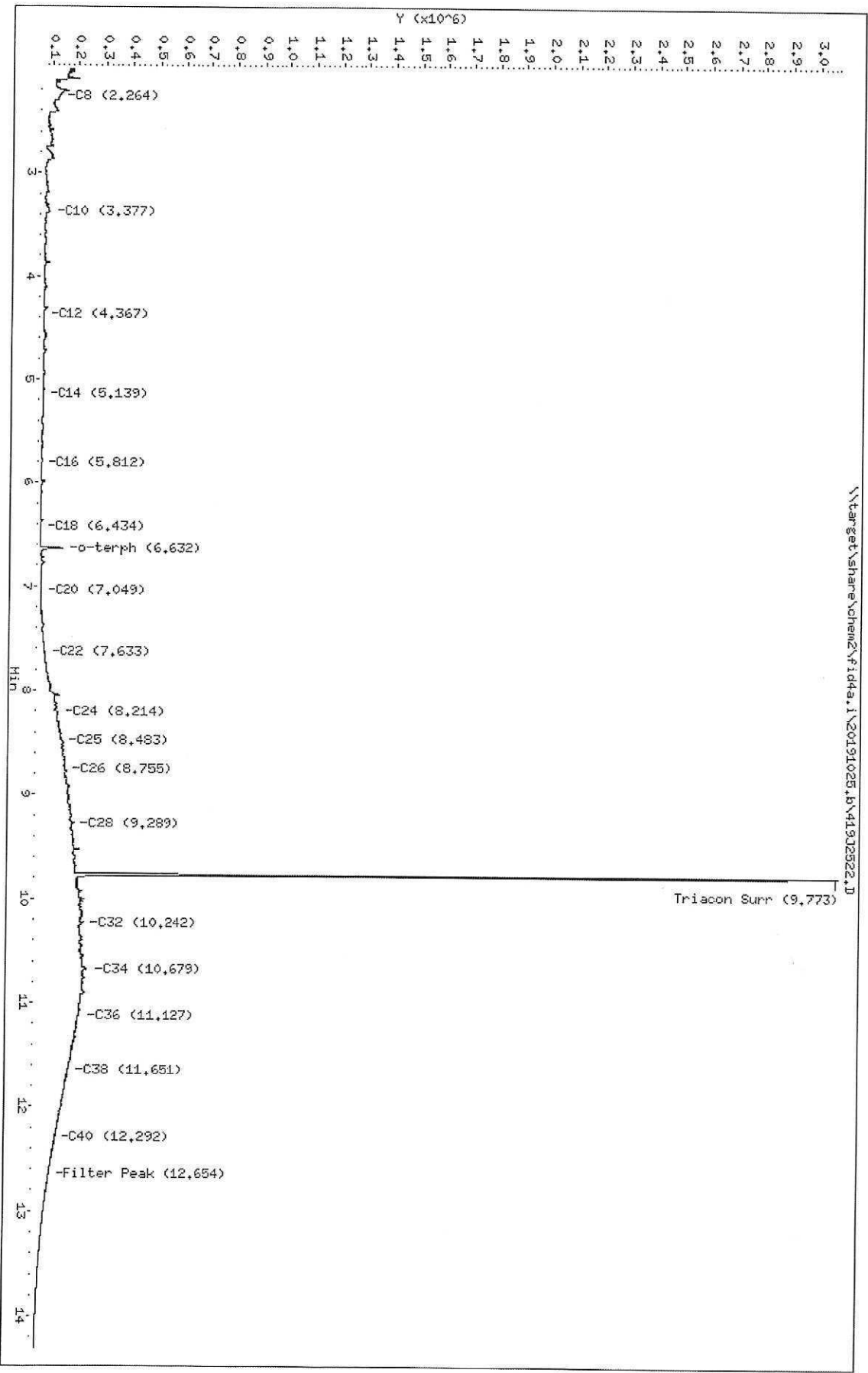


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2521.D Injection: 25-OCT-2019 18:35
 Lab ID: SHJ0406-CALD



Data File: \\target\share\chem2\Fid4a.1\20191025.B\41912522.D
Date : 25-OCT-2019 18:55
Client ID:
Sample Info: SHJ0406-CALC
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2522.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALE
Client ID:
Injection: 25-OCT-2019 18:55
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61078	41904	WATPHD	(C12-C24)	2795528	17.5
C10	3.377	0.004	26802	52996	WATPHM	(C24-C38)	31324226	236.2
C12	4.367	0.019	5459	4798	AK102	(C10-C25)	4178110	21.4
C14	5.139	0.010	4962	3160	AK103	(C25-C36)	25813764	258.2
C16	5.812	0.005	2520	1321	OR.DIES	(C10-C28)	10680396	54.5
C18	6.434	-0.000	1311	882				
C20	7.049	0.006	4759	2820				
C22	7.633	-0.005	24172	52812				
C24	8.214	-0.001	79717	62122				
C25	8.483	-0.010	96553	61766				
C26	8.755	-0.010	114382	67845				
C28	9.289	0.004	142997	64203				
C32	10.242	0.000	182878	81971				
C34	10.679	-0.002	200985	321864				
Filter Peak	12.654	0.004	63611	28452	CREOSOT	(C12-C22)	1041017	266.9
C36	11.127	-0.001	175707	78840				
C38	11.651	0.001	139085	55402				
C40	12.292	0.004	88908	61716				
o-terph	6.632	-0.024	91544	90689				
Triacon Surr	9.773	-0.029	2869605	2058184	NAS DIES	(C10-C24)	3295502	16.9

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

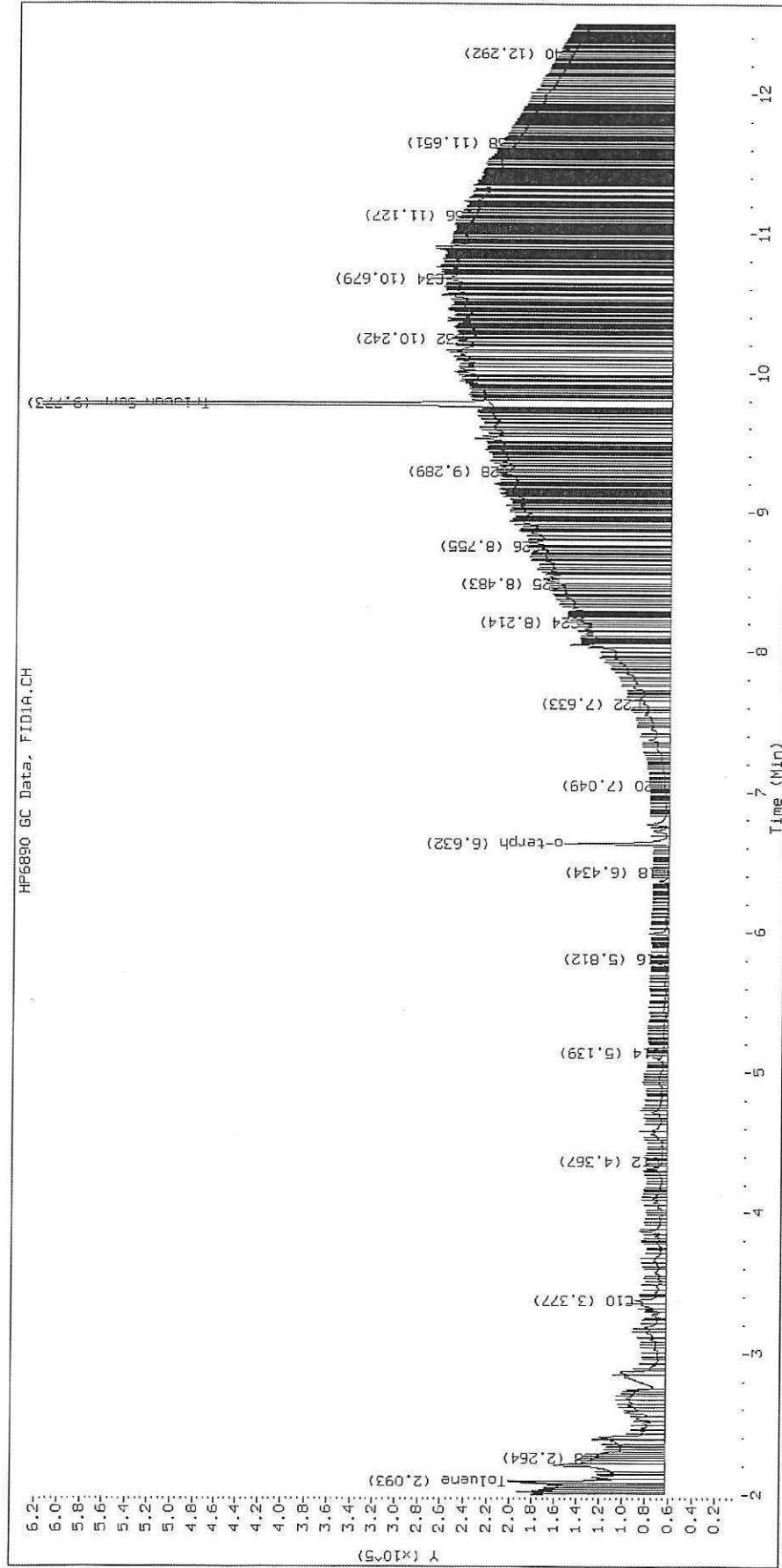
Surrogate	Area	Amount
o-Terphenyl	90689	0.4
Triacotane	2058184	11.6 M

M Indicates the peak was manually integrated

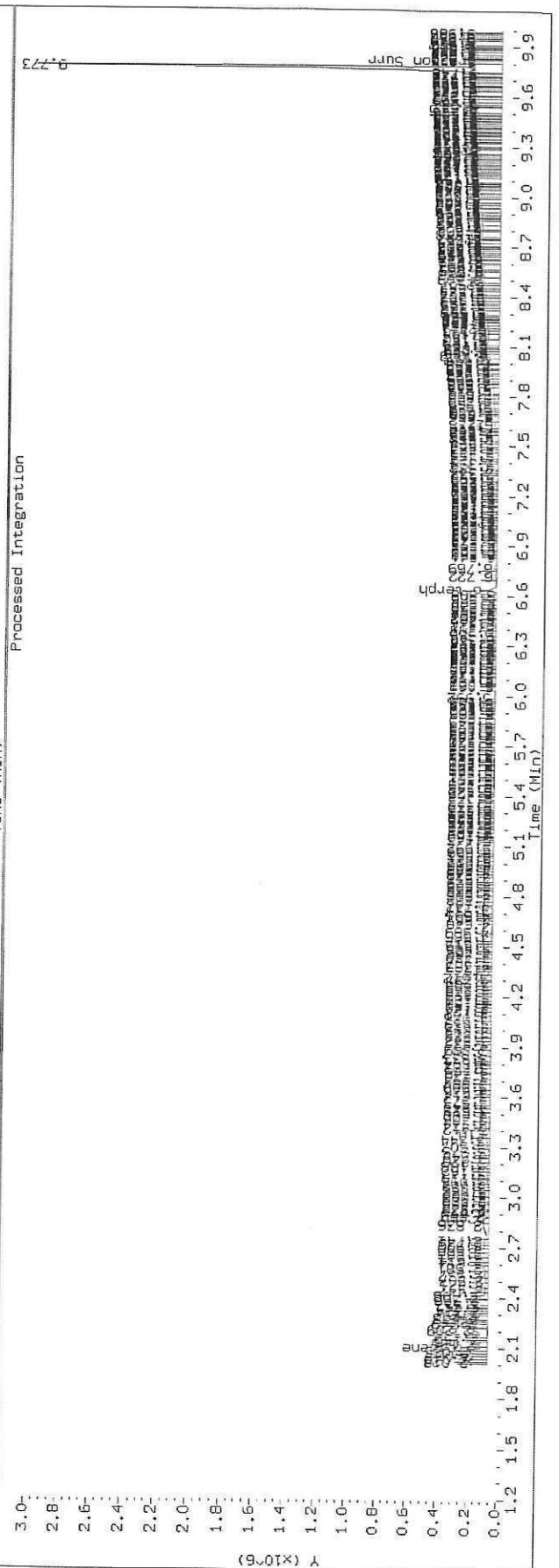
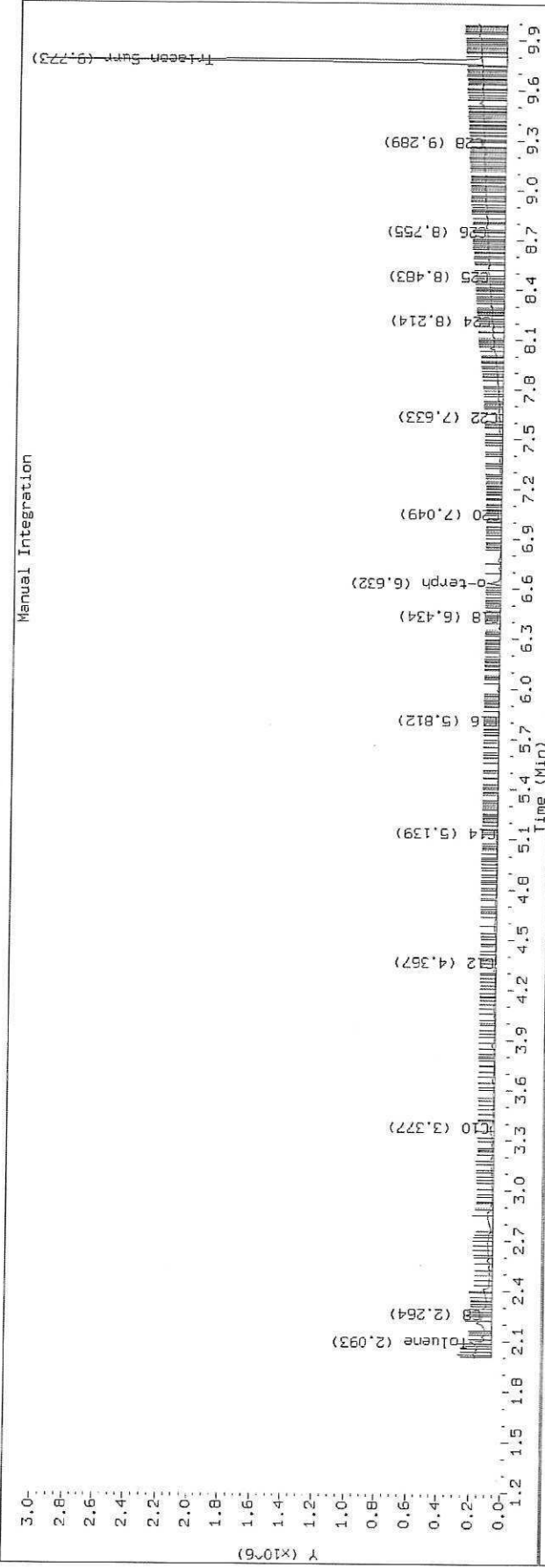
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2522.D SHJ0406-CALE

HP6890 GC Data, FID1A.CH

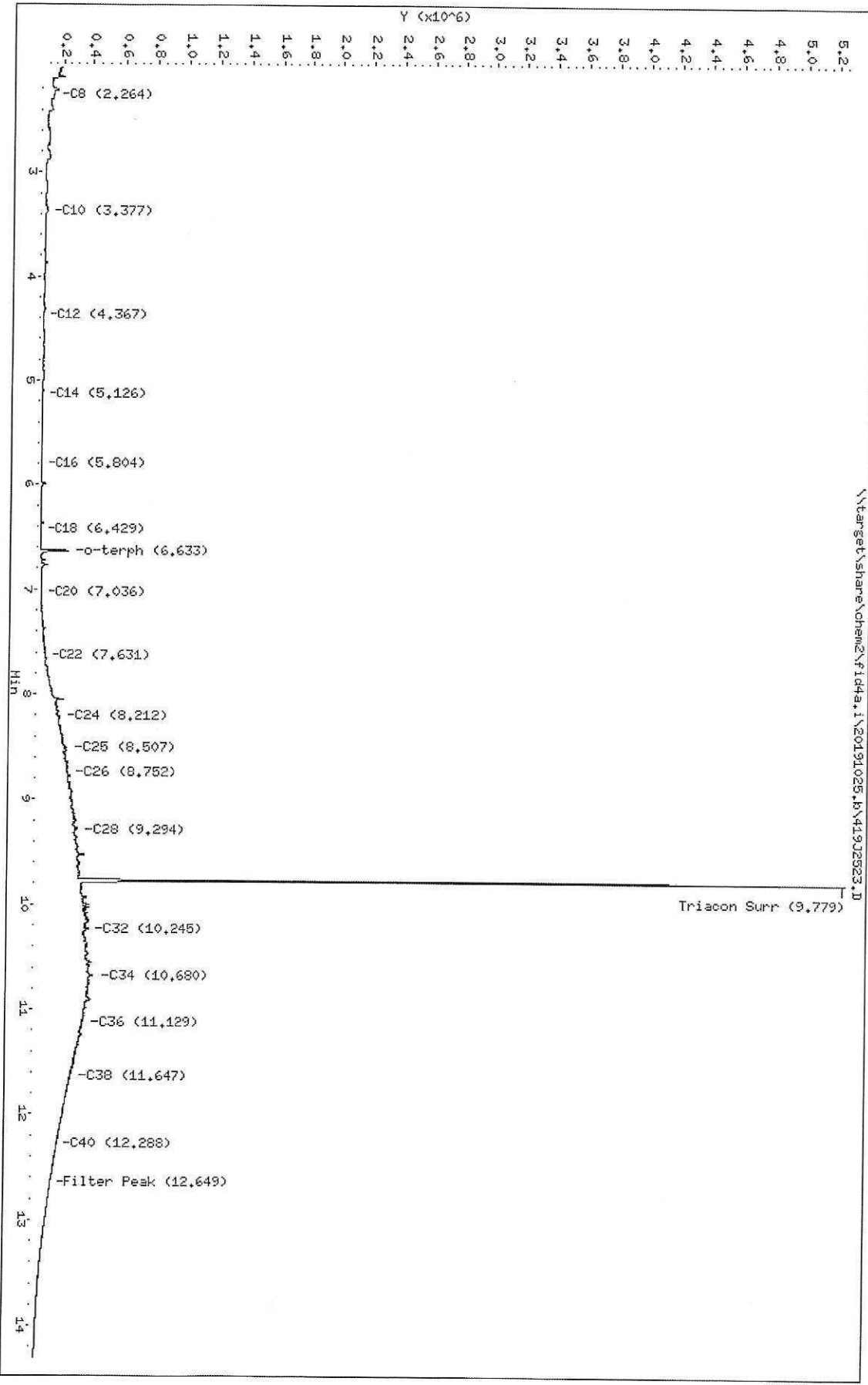


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2522.D Injection: 25-OCT-2019 18:55
 Lab ID: SHJ0406-CALE



Data File: \\target\share\chem2\Fid4a.I\20191025.B\419J2523.D
 Date : 25-OCT-2019 19:15
 Client ID:
 Sample Info: SHJ0406-QALLF
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CTO/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2523.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALF
Client ID:
Injection: 25-OCT-2019 19:15
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS								
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	65663	48530	WATPHD	(C12-C24)	5014916	31.5
C10	3.377	0.004	28749	58345	WATPHM	(C24-C38)	59779944	450.7
C12	4.367	0.020	3969	3466	AK102	(C10-C25)	7200245	36.8
C14	5.126	-0.004	3228	1712	AK103	(C25-C36)	49058982	490.7
C16	5.804	-0.004	2893	3236	OR.DIES	(C10-C28)	19724552	100.6
C18	6.429	-0.005	2246	2256				
C20	7.036	-0.007	10796	11147				
C22	7.631	-0.008	48129	85760				
C24	8.212	-0.003	157019	245696				
C25	8.507	0.014	210068	574409				
C26	8.752	-0.013	221185	294582				
C28	9.294	0.008	276194	178596				
C32	10.245	0.003	351165	209719				
C34	10.680	-0.001	394703	898701				
Filter Peak	12.649	-0.002	125409	50077	CREOSOT	(C12-C22)	1560946	400.2
C36	11.129	-0.000	332260	99465				
C38	11.647	-0.003	258943	64646				
C40	12.288	-0.001	170438	84522				
o-terph	6.633	-0.024	198416	176995				
Triacon Surr	9.779	-0.024	4910254	3941895	NAS DIES	(C10-C24)	5534721	28.4

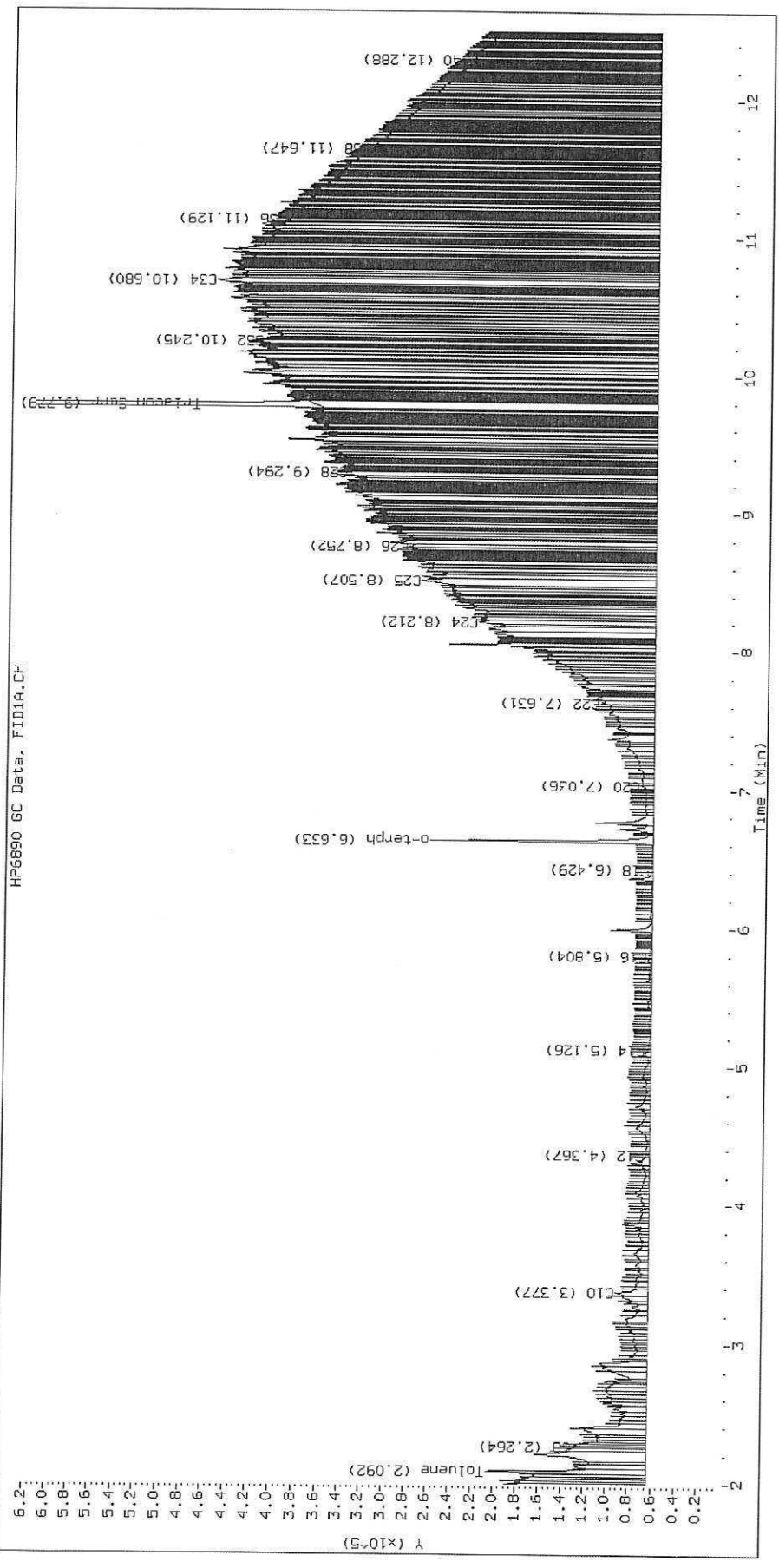
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	176995	0.9
Triacotane	3941895	22.1 M

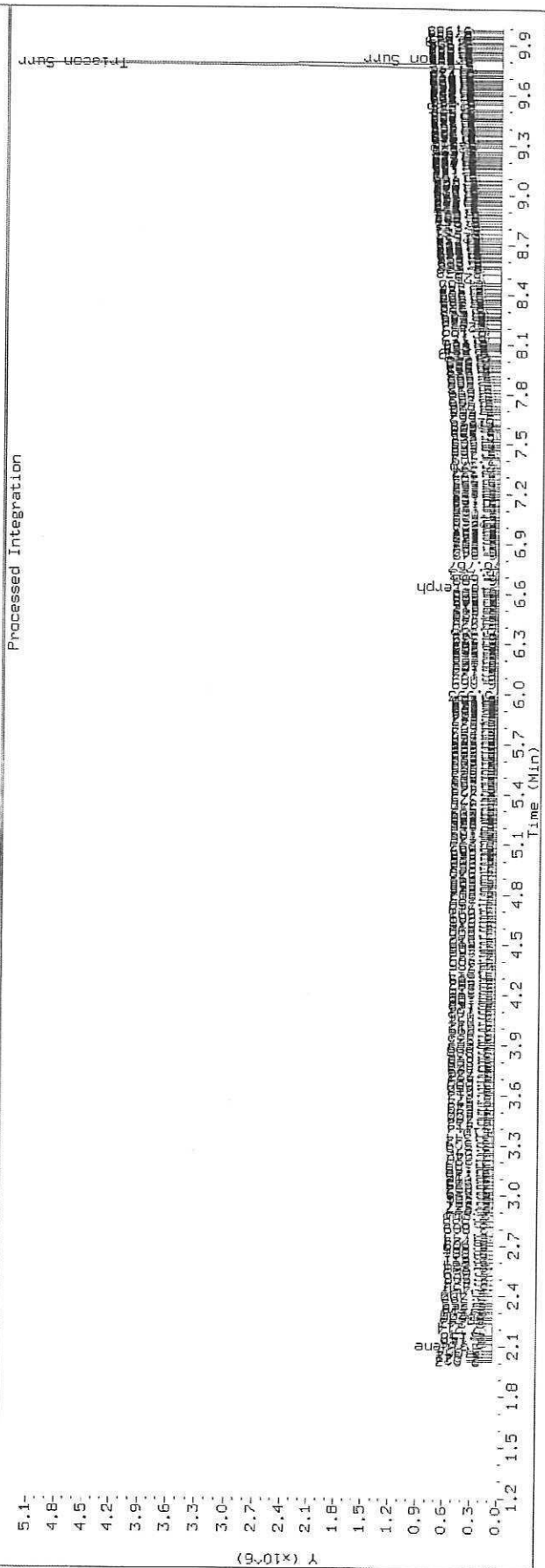
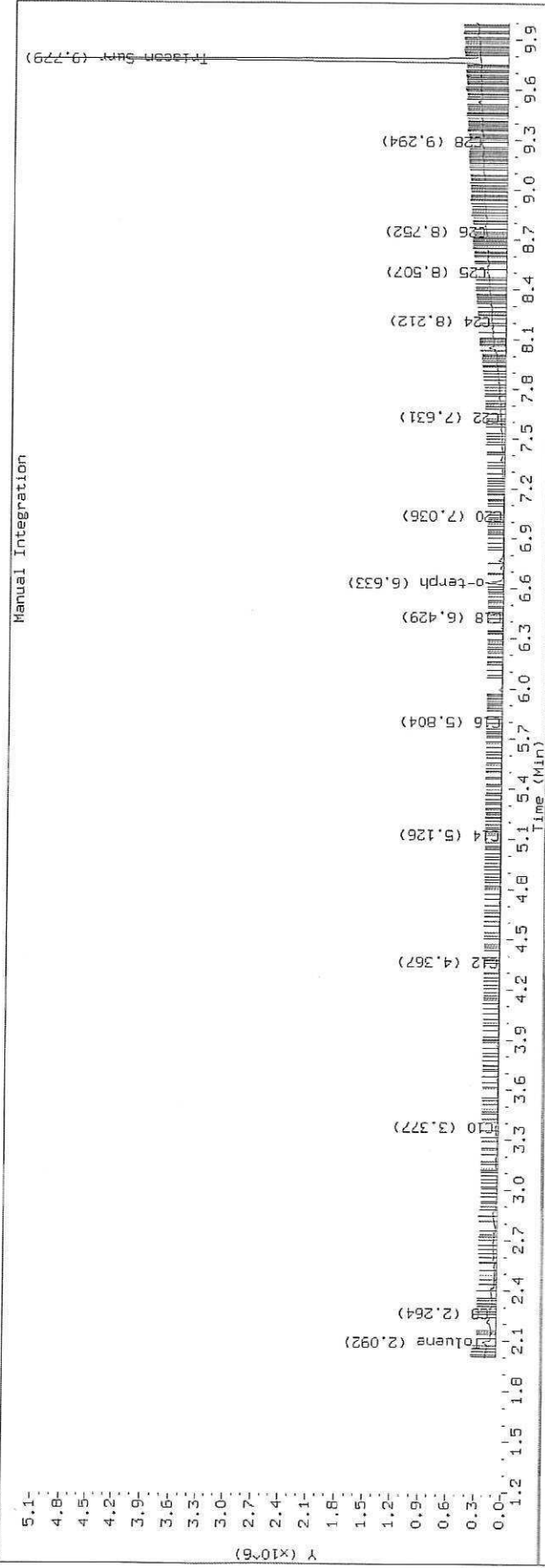
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2523.D SHJ0406-CALF

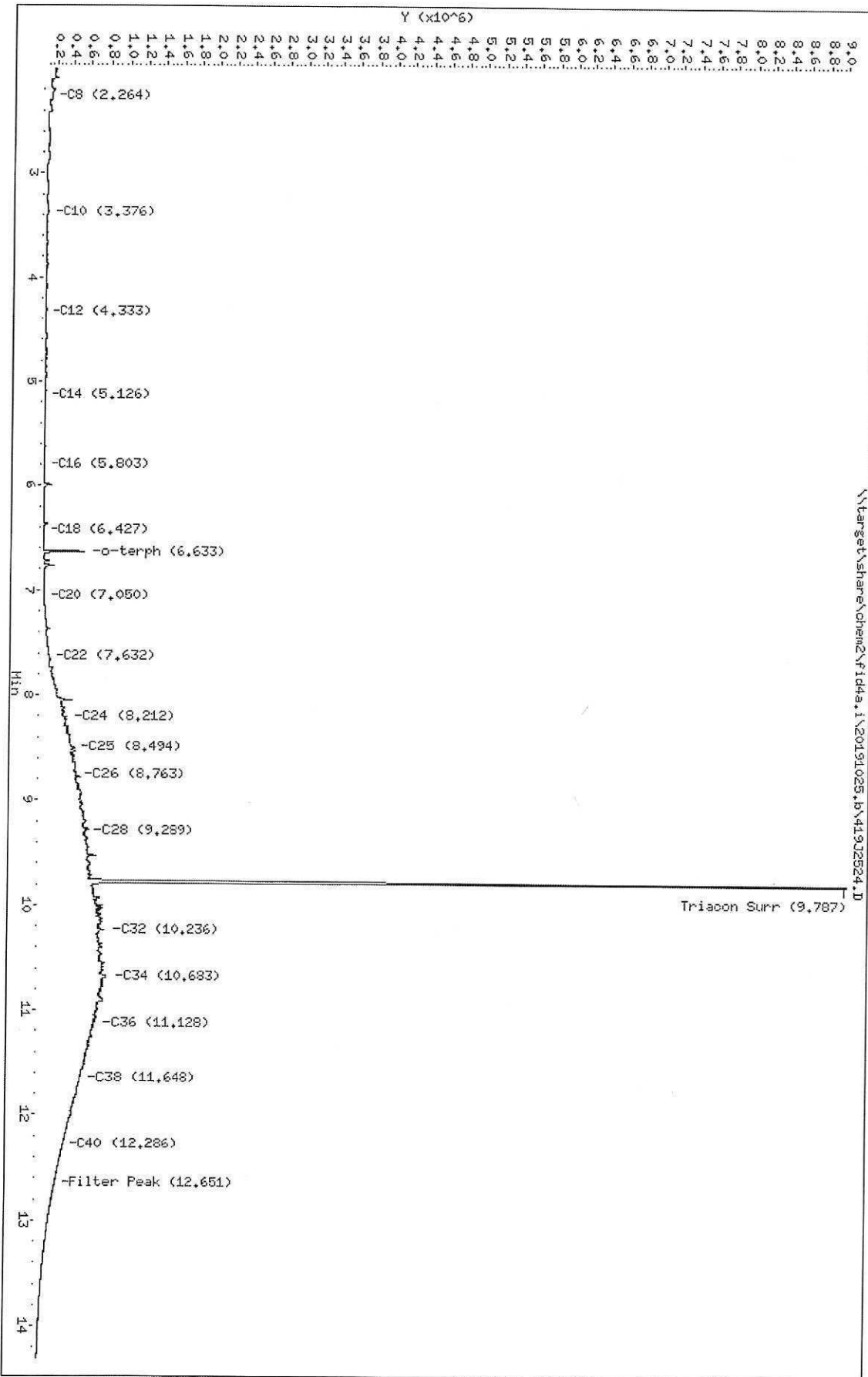


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2523.D Injection: 25-OCT-2019 19:15
 Lab ID: SHJ0406-CALF



Data File: \\target\share\chem2\fid4a.i\20191025.b\41932524.D
Date : 25-OCT-2019 19:34
Client ID:
Sample Info: SHJ0406-CALLS
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTD/SH/YTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2524.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALG
Client ID:
Injection: 25-OCT-2019 19:34
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.264	0.002	59182	43398	WATPHD	(C12-C24)	9693002	60.8
C10	3.376	0.003	26004	47549	WATPHM	(C24-C38)	119379277	900.1
C12	4.333	-0.015	5078	6418	AK102	(C10-C25)	13482675	69.0
C14	5.126	-0.004	4037	3451	AK103	(C25-C36)	98534931	985.6
C16	5.803	-0.004	5499	6876	OR.DIES	(C10-C28)	38197703	194.9
C18	6.427	-0.008	4829	4807				
C20	7.050	0.007	20128	16414				
C22	7.632	-0.007	95273	191460				
C24	8.212	-0.003	309198	497796				
C25	8.494	0.001	394056	249031				
C26	8.763	-0.001	429806	171737				
C28	9.289	0.004	544145	135929				
C32	10.236	-0.006	748503	1187882				
C34	10.683	0.001	785420	196129				
Filter Peak	12.651	0.000	222539	110925	CREOSOT	(C12-C22)	2913792	747.0
C36	11.128	-0.000	665475	297953				
C38	11.648	-0.001	517415	384389				
C40	12.286	-0.003	322103	175432				
o-terph	6.633	-0.024	489788	368237				
Triacon Surr	9.787	-0.015	8362676	7933666	NAS DIES	(C10-C24)	10069630	51.6

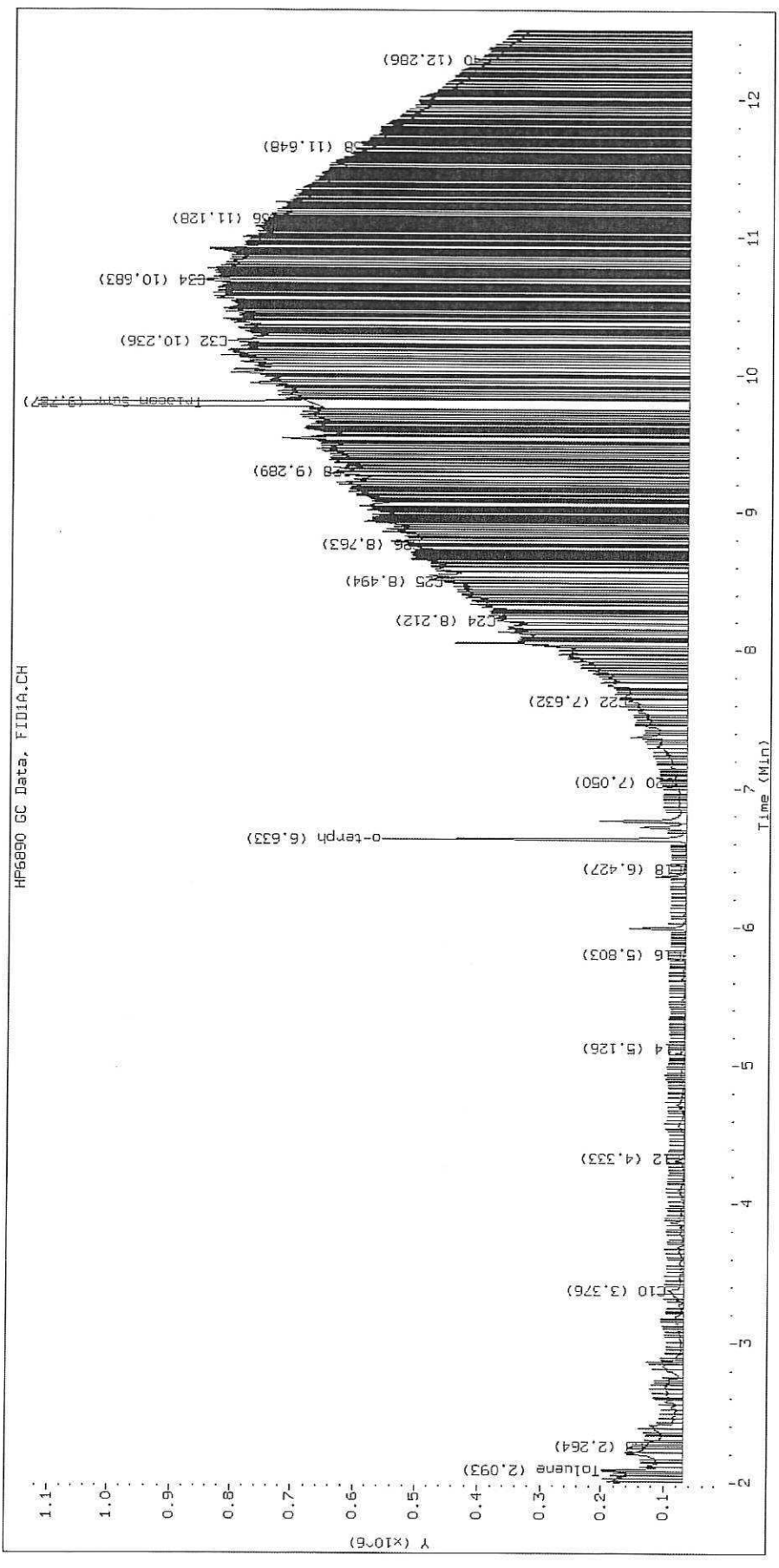
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

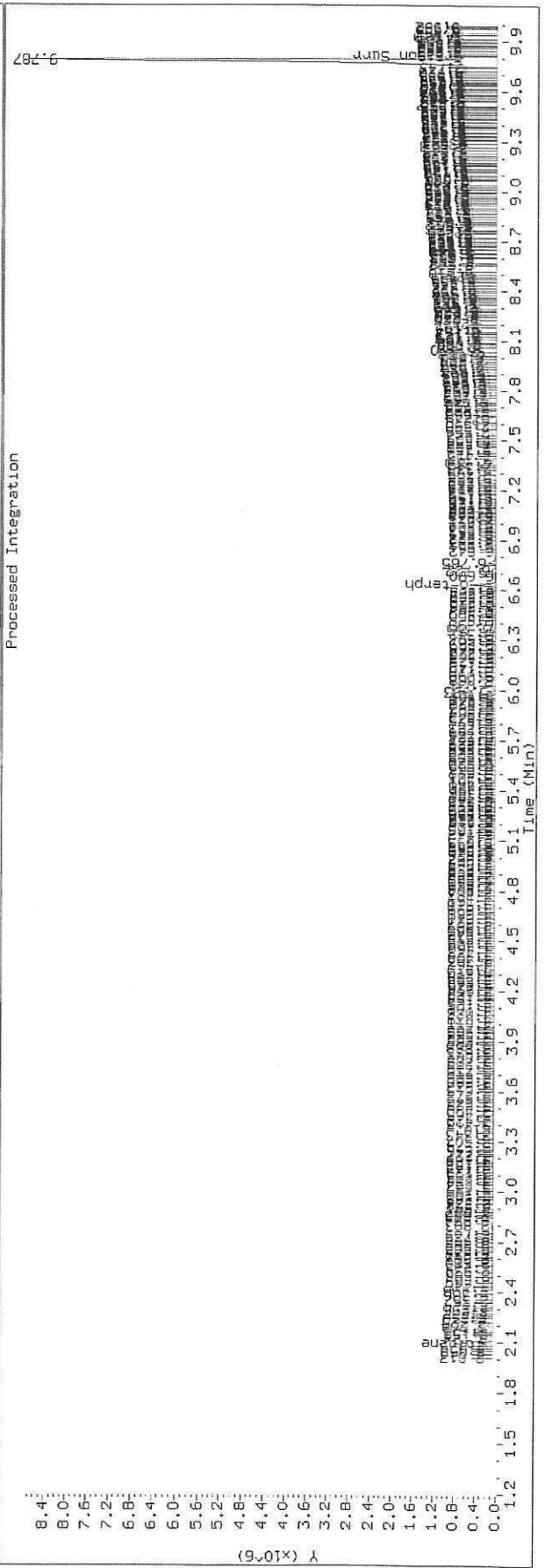
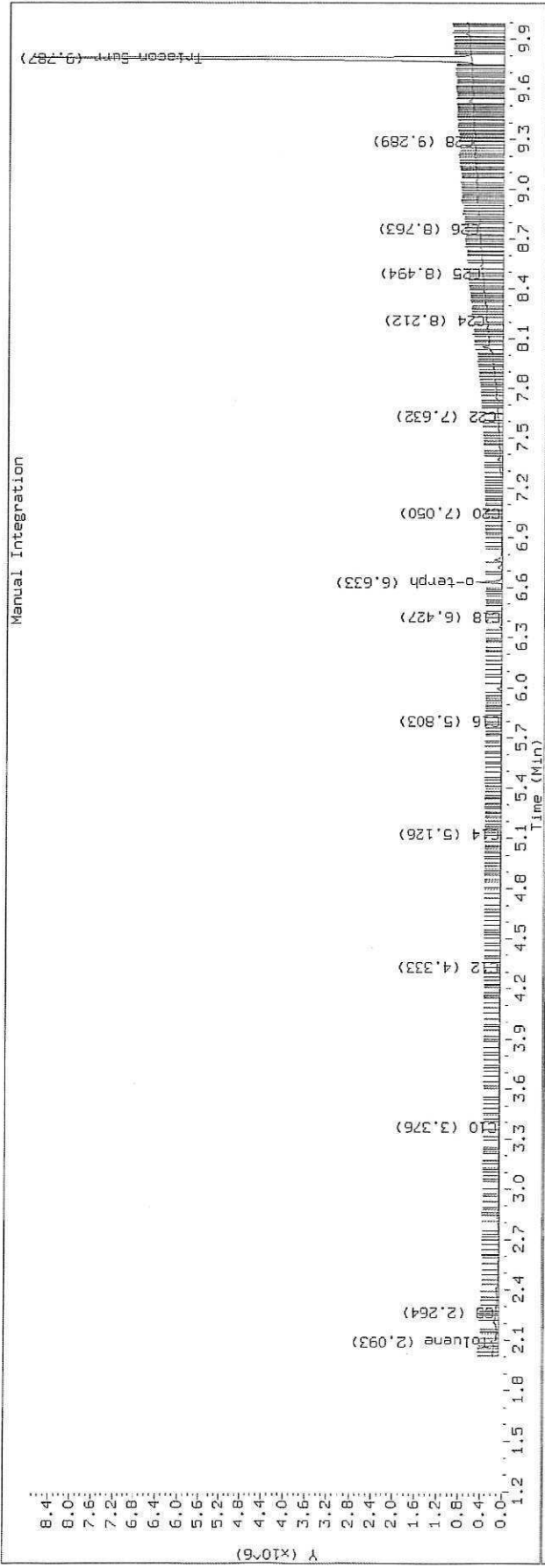
Surrogate	Area	Amount
o-Terphenyl	368237	1.8
Triacontane	7933666	44.6 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

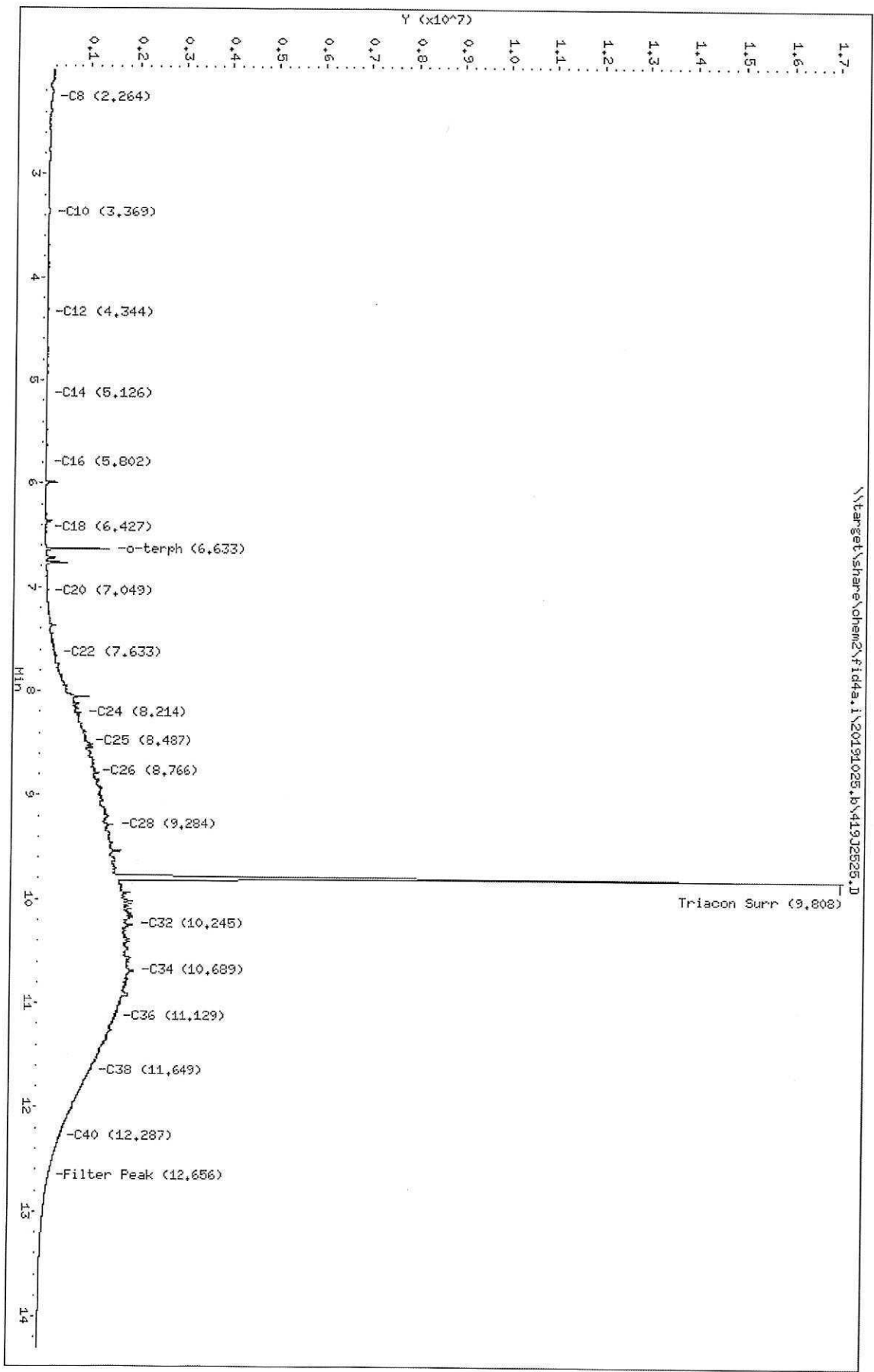
Datafile: FID4A, 20191025.b/419J2524.D SHJ0406-CALG





Data File: \\karger\share\chem2\fid4a.1\20191025.1b\419J2525.D
Date : 25-OCT-2019 19:54
Client ID:
Sample Info: SHJ0406-CALH
Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JGR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2525.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALH
Client ID:
Injection: 25-OCT-2019 19:54
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	56415	38567	WATPHD	(C12-C24)	26301815	165.1
C10	3.369	-0.003	27712	41157	WATPHM	(C24-C38)	301341214	2272.0
C12	4.344	-0.003	5882	6952	AK102	(C10-C25)	35690614	182.6
C14	5.126	-0.003	7507	9244	AK103	(C25-C36)	251232894	2512.9
C16	5.802	-0.005	13222	14374	OR.DIES	(C10-C28)	99037801	505.3
C18	6.427	-0.008	19180	20067				
C20	7.049	0.006	65385	59588				
C22	7.633	-0.006	263262	368137				
C24	8.214	-0.001	822366	1422767				
C25	8.487	-0.006	962652	426588				
C26	8.766	0.002	1133629	505360				
C28	9.284	-0.002	1509428	2436681				
C32	10.245	0.003	1957482	3059346				
C34	10.689	0.008	1976148	4422245				
Filter Peak	12.656	0.006	231984	148698	CREOSOT	(C12-C22)	8248980	2114.6
C36	11.129	-0.000	1621407	646645				
C38	11.649	-0.000	1113973	443976				
C40	12.287	-0.002	466123	386816				
o-terph	6.633	-0.024	1387955	962768				
Triacon Surr	9.808	0.006	15482951	20436973	NAS DIES	(C10-C24)	26712775	136.9

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

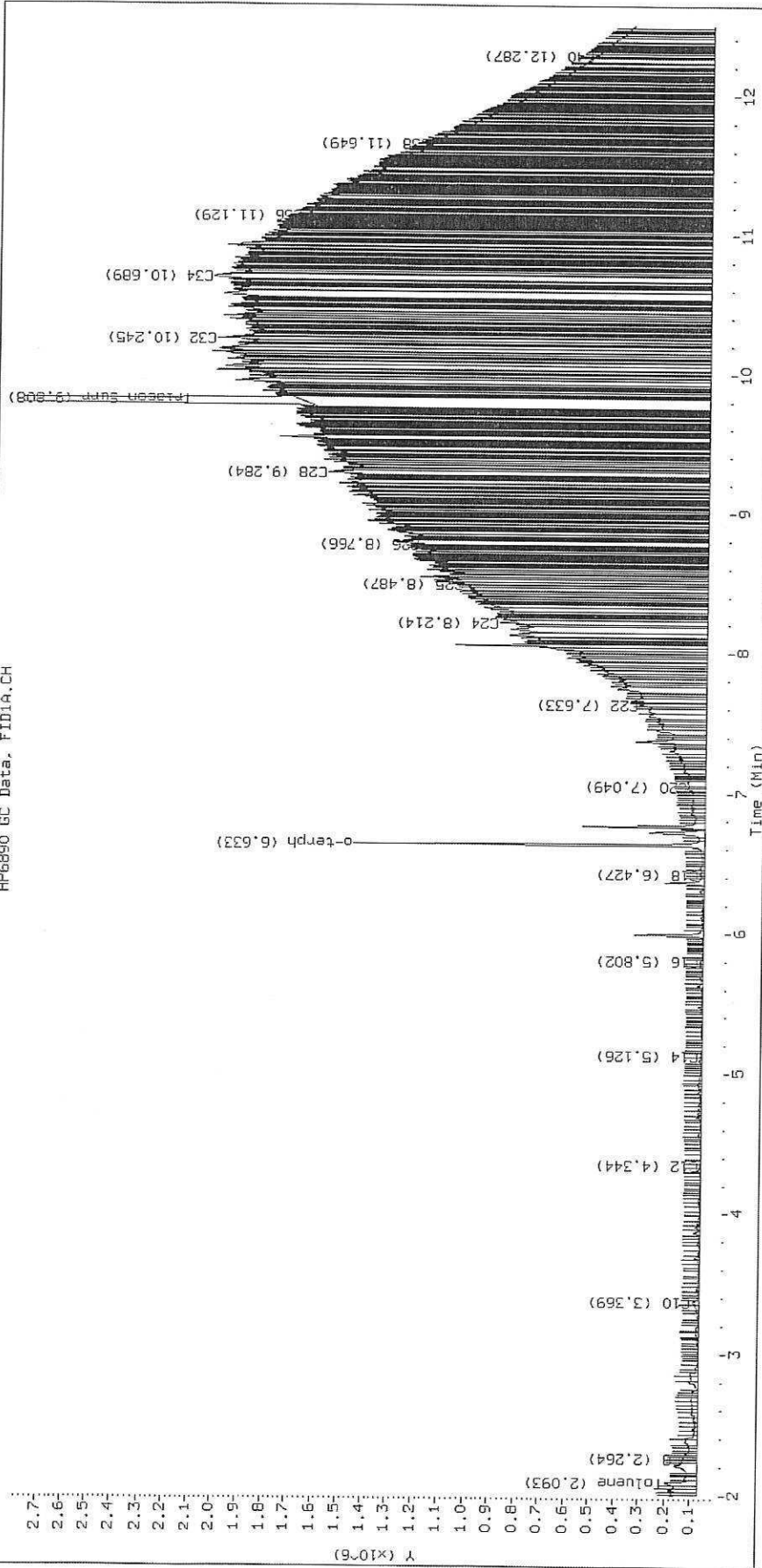
Surrogate	Area	Amount
o-Terphenyl	962768	4.7
Triacotane	20436973	114.8 M

M Indicates the peak was manually integrated

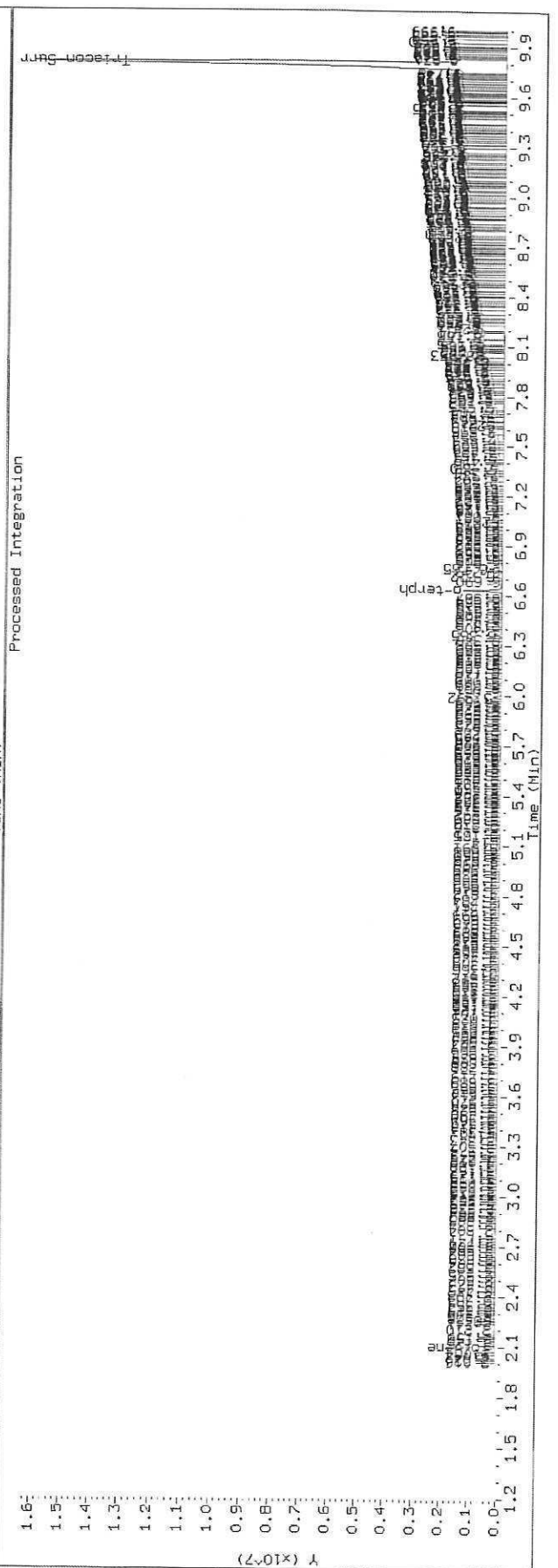
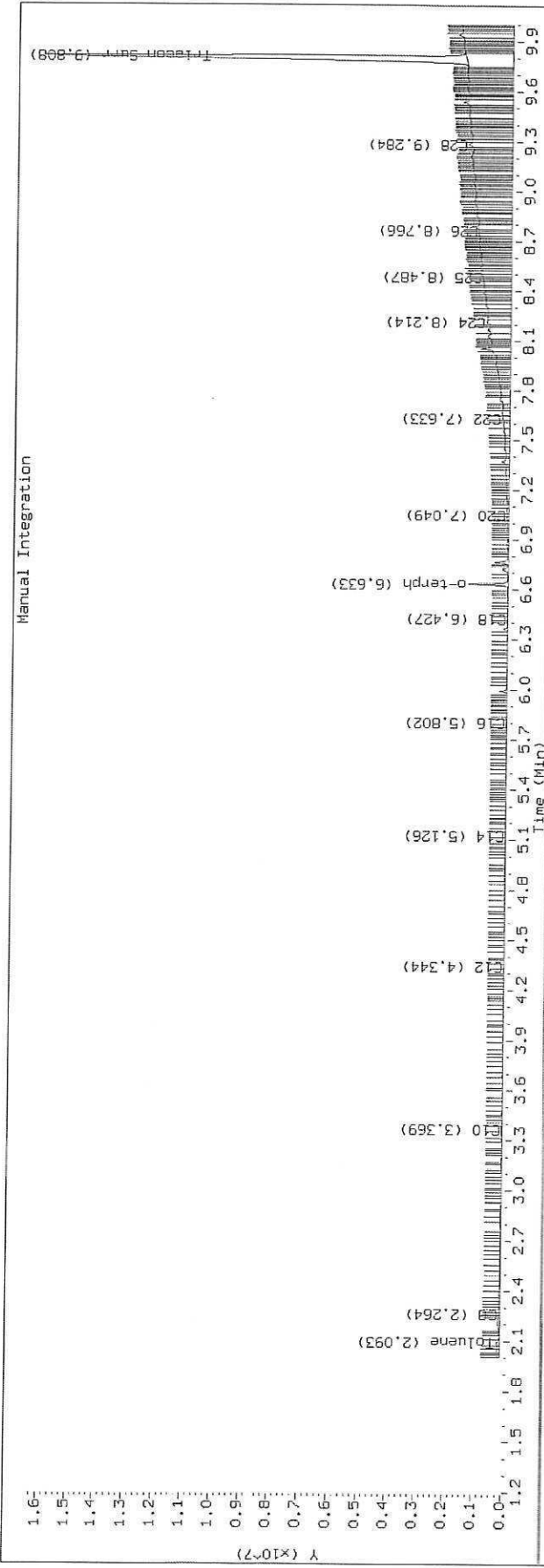
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2525.D SHJ0406-CALH

HF6890 GC Data, FID1A.CH



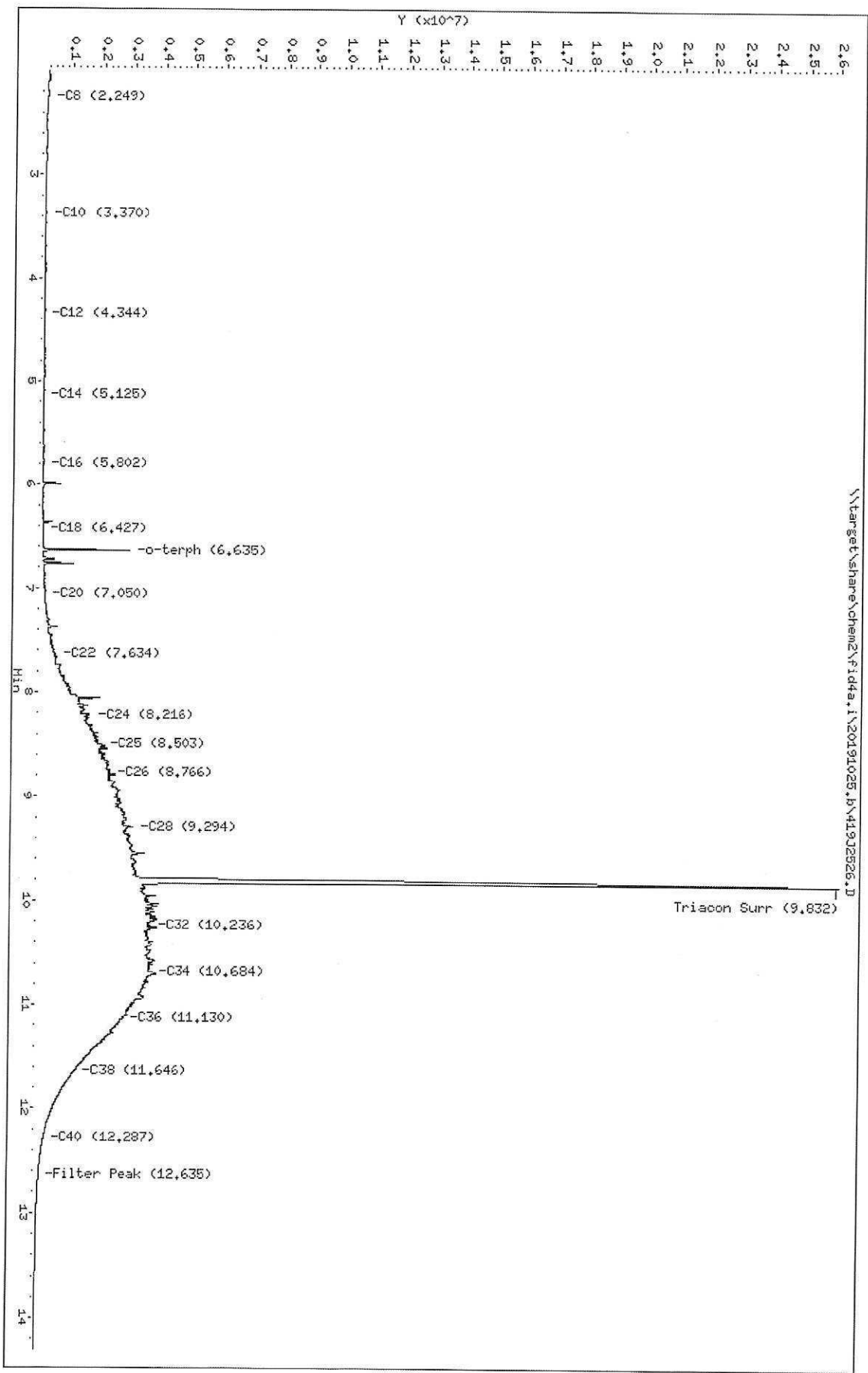
TPH Manual Integrations Report
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 Lab ID: SHJ0406-CALH



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2526.D
Date: 25-OCT-2019 20:15
Client ID:
Sample Info: SHJ0406-CALI

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/SH/VTS/JDR
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2526.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-CALI
Client ID:
Injection: 25-OCT-2019 20:15
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.249	-0.013	68157	97437	WATPHD	(C12-C24)	53373864	335.0
C10	3.370	-0.003	37579	47410	WATPHM	(C24-C38)	579217404	4367.1
C12	4.344	-0.003	10600	10459	AK102	(C10-C25)	72516526	370.9
C14	5.125	-0.004	18160	20643	AK103	(C25-C36)	501300122	5014.2
C16	5.802	-0.005	31467	33333	OR.DIES	(C10-C28)	201523108	1028.2
C18	6.427	-0.008	46016	47297				
C20	7.050	0.007	139853	120986				
C22	7.634	-0.005	536997	729929				
C24	8.216	0.002	1657695	1800915				
C25	8.503	0.010	2055767	2566063				
C26	8.766	0.002	2309434	1601749				
C28	9.294	0.008	3108955	5845567				
C32	10.236	-0.006	3694253	3475497				
C34	10.684	0.002	3746349	1670889				
Filter Peak	12.635	-0.015	125409	273331	CREOSOT	(C12-C22)	16636154	4264.7
C36	11.130	0.002	2854299	995118				
C38	11.646	-0.003	1329722	1616024				
C40	12.287	-0.002	293577	286952				
o-terph	6.635	-0.022	2904255	1975795				
Triacon Surr	9.832	0.030	22638379	40251878	NAS DIES	(C10-C24)	53915002	276.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

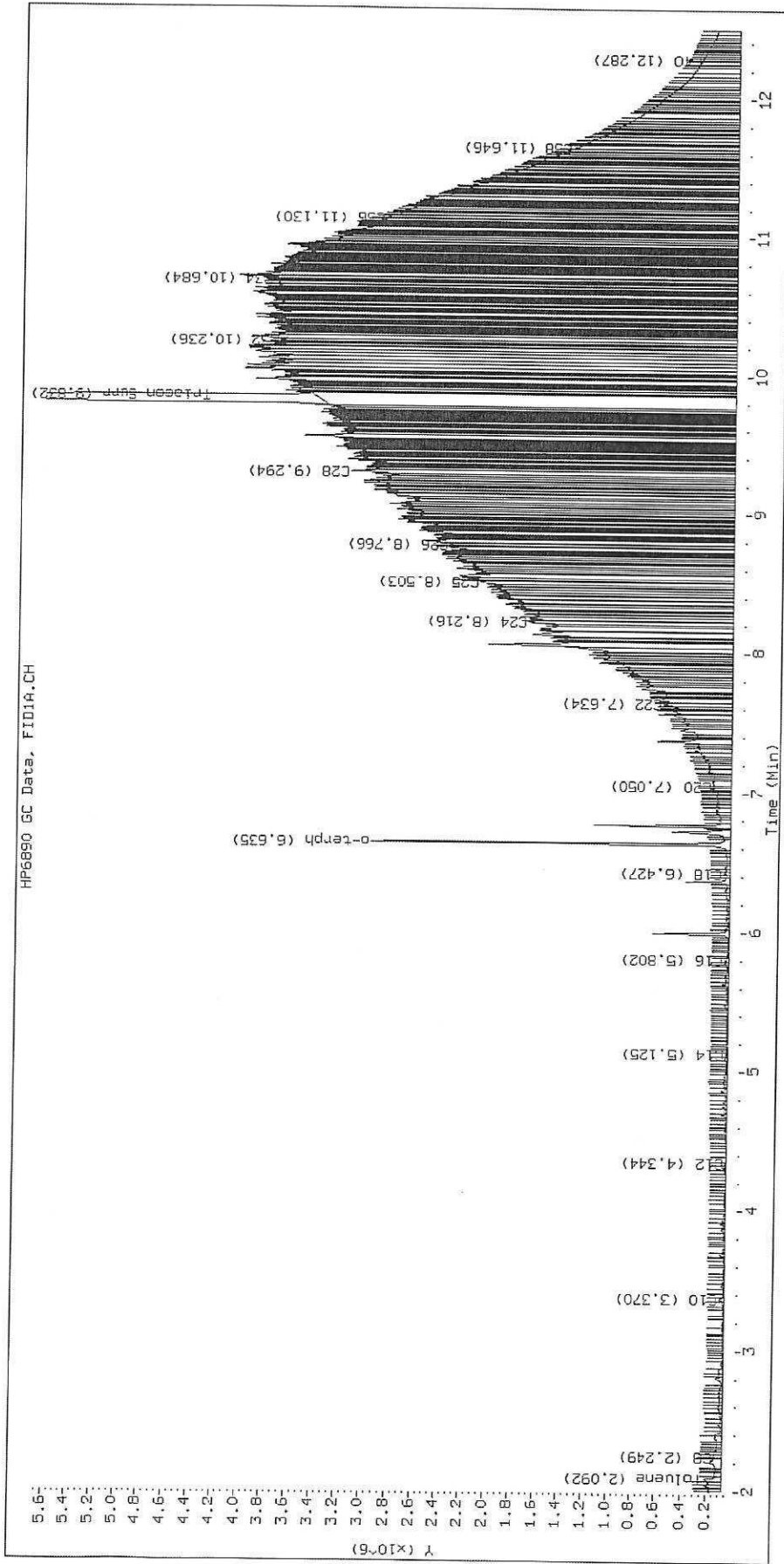
Surrogate	Area	Amount
o-Terphenyl	1975795	9.7
Triacontane	40251878	226.2 M

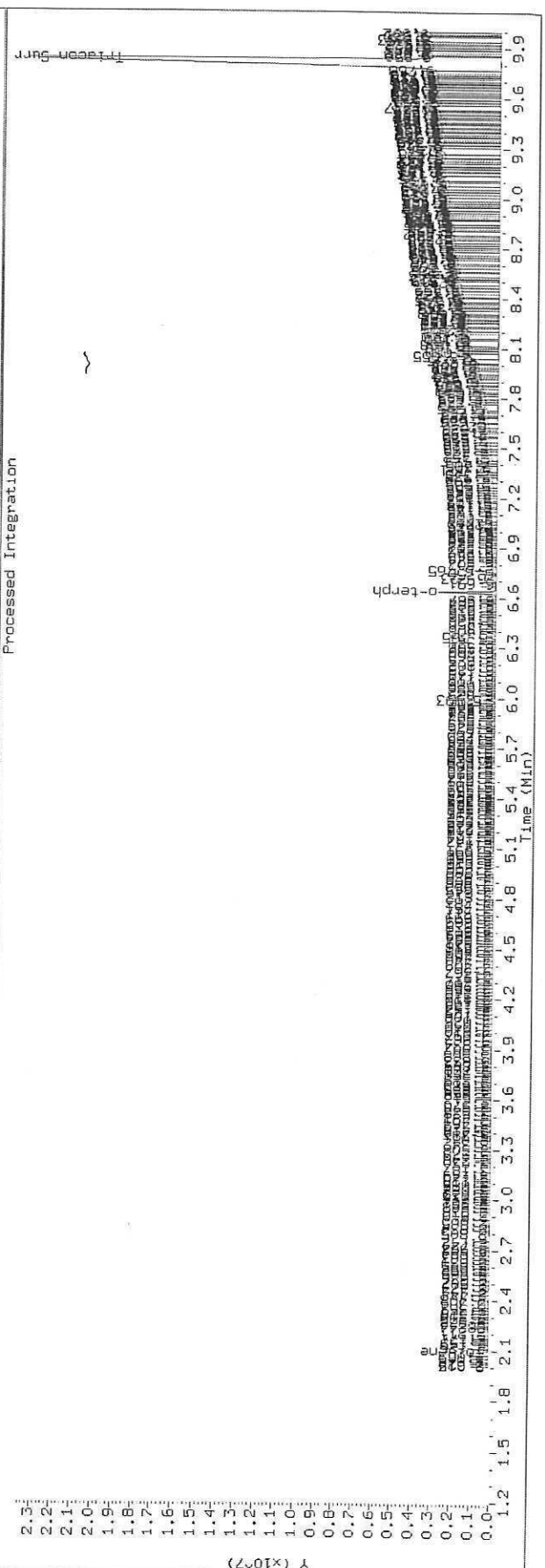
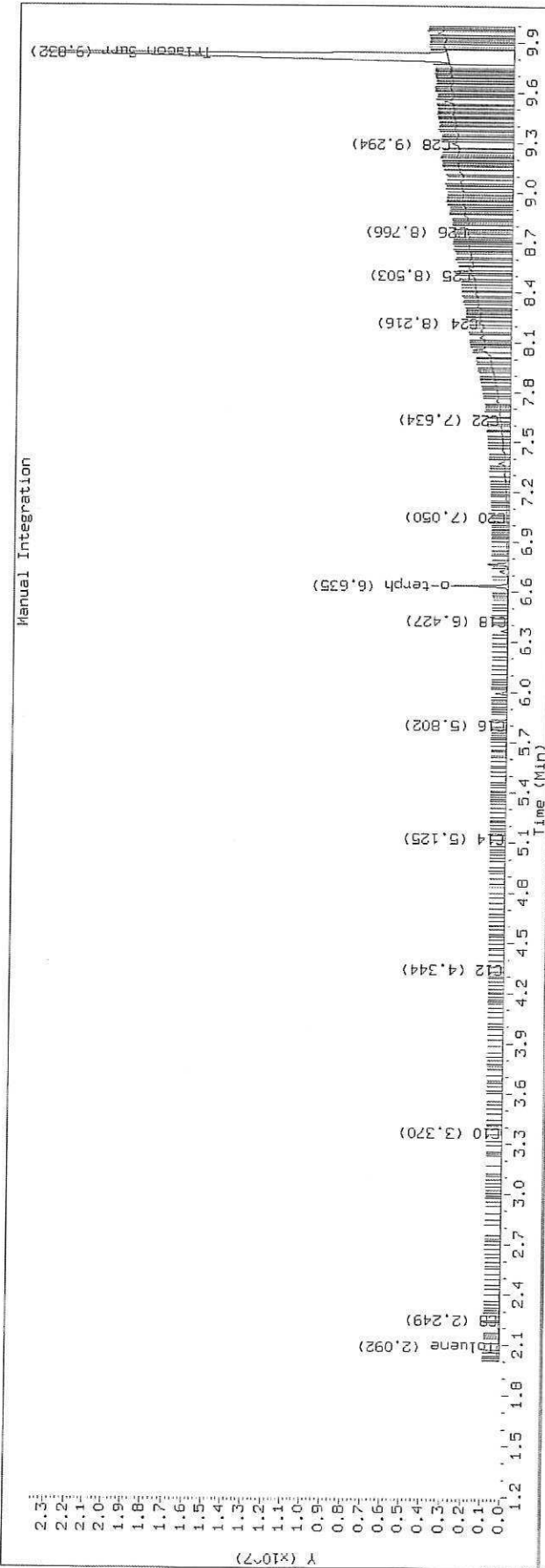
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/419J2526.D SHJ0406-CALI

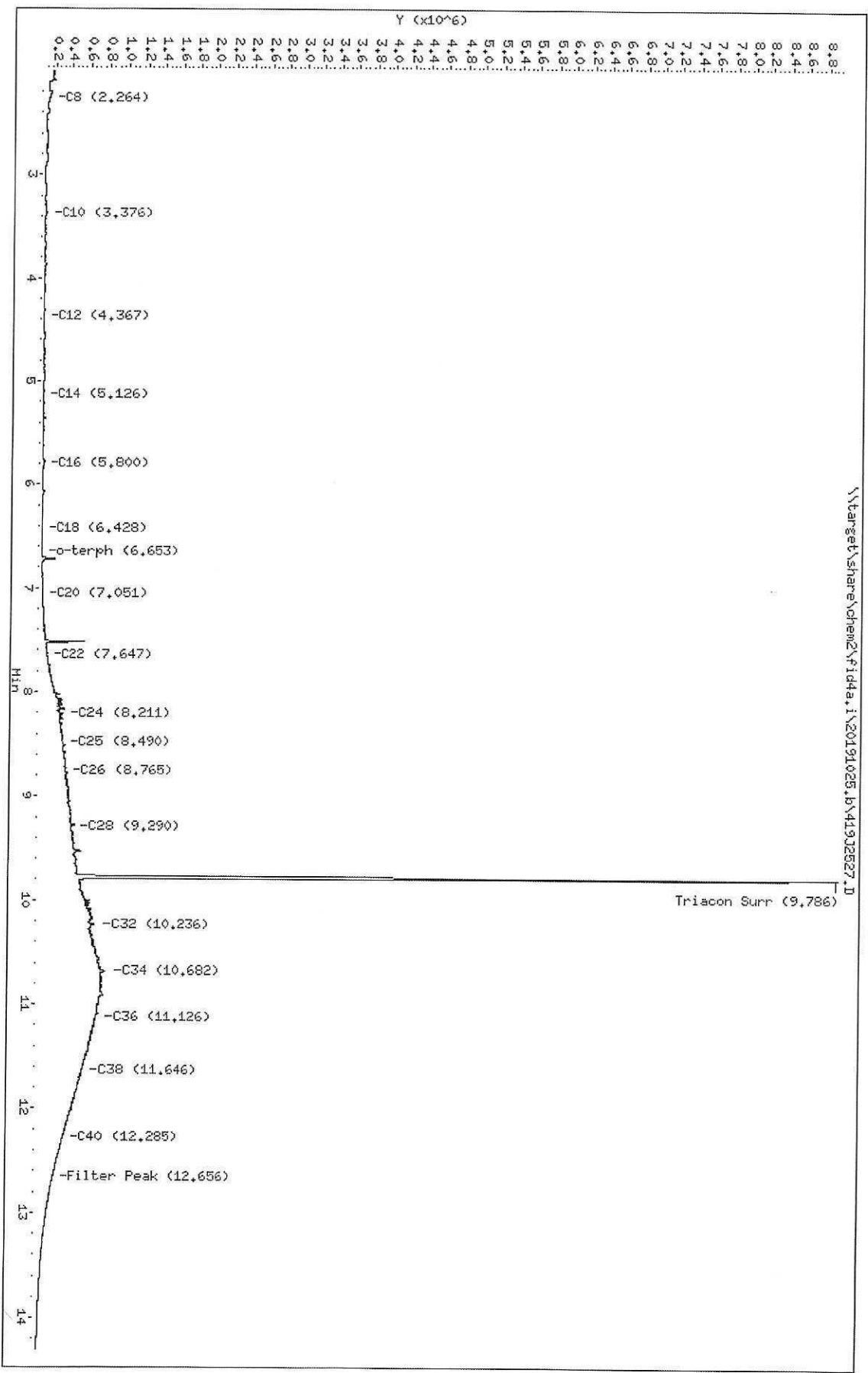
HP6890 GC Data, FID1A.CH





Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2527.D
 Date: 25-OCT-2019 20:35
 Client ID:
 Sample Info: SHJ0406-SCV3
 Column phase: RTX-1

Instrument: fid4a.i
 Operator: CT0/SH/VTS/JGR
 Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2527.D
Method: 20191025.b\FID4TPH.m
Instrument: fid4a.i, CTO/SH/VTS/JGR
Report Date: 10/30/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHJ0406-SCV3
Client ID:
Injection: 25-OCT-2019 20:35
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc(mg/L)
C8	2.264	0.002	53471	36749	WATPHD	(C12-C24)	9151453	57.4
C10	3.376	0.003	25610	47191	WATPHM	(C24-C38)	105205257	793.2
C12	4.367	0.020	4177	4443	AK102	(C10-C25)	12217213	62.5
C14	5.126	-0.003	5782	7745	AK103	(C25-C36)	83900022	839.2
C16	5.800	-0.007	18027	25221	OR.DIES	(C10-C28)	30254236	154.4
C18	6.428	-0.007	5074	5462				
C20	7.051	0.008	15134	10036				
C22	7.647	0.008	76708	26745				
C24	8.211	-0.004	290822	446061				
C25	8.490	-0.003	283476	98752				
C26	8.765	0.000	315420	126036				
C28	9.290	0.004	395912	118500				
C32	10.236	-0.006	661365	1079458				
C34	10.682	0.001	769683	230477				
Filter Peak	12.656	0.006	214849	128159	CREOSOT	(C12-C22)	2946608	755.4
C36	11.126	-0.002	688686	308098				
C38	11.646	-0.004	543124	322331				
C40	12.285	-0.004	325522	178450				
o-terph	6.653	-0.003	2619	2570				
Triacon Surr	9.786	-0.016	8421327	7592281	NAS DIES	(C10-C24)	9621264	49.3

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

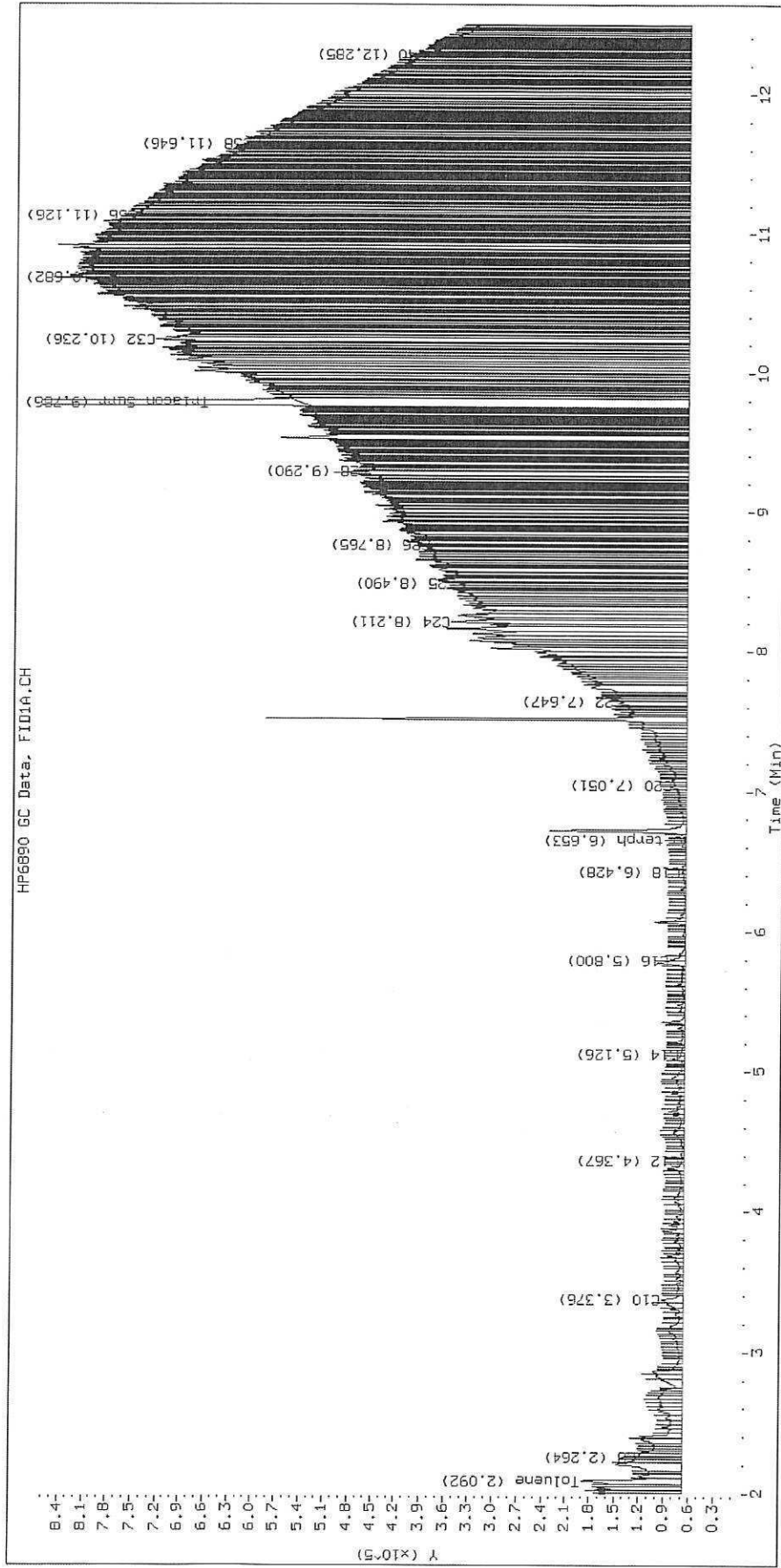
Surrogate	Area	Amount
o-Terphenyl	2570	0.0
Triacotane	7592281	42.7 M

M Indicates the peak was manually integrated

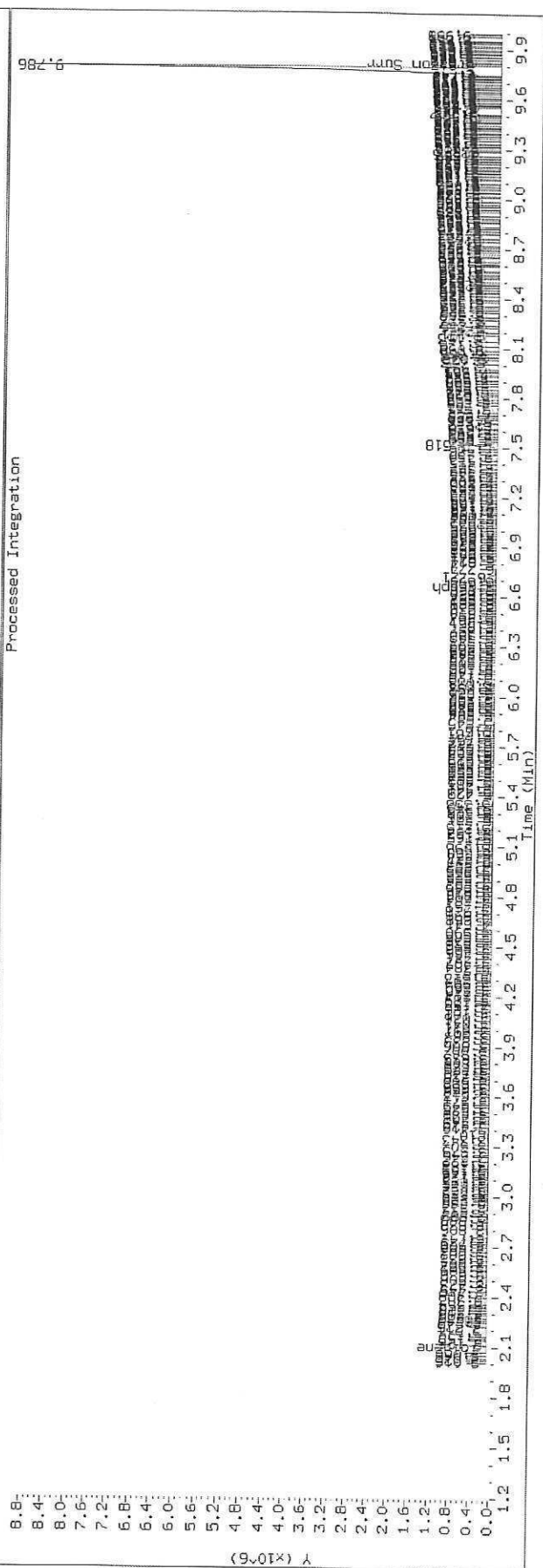
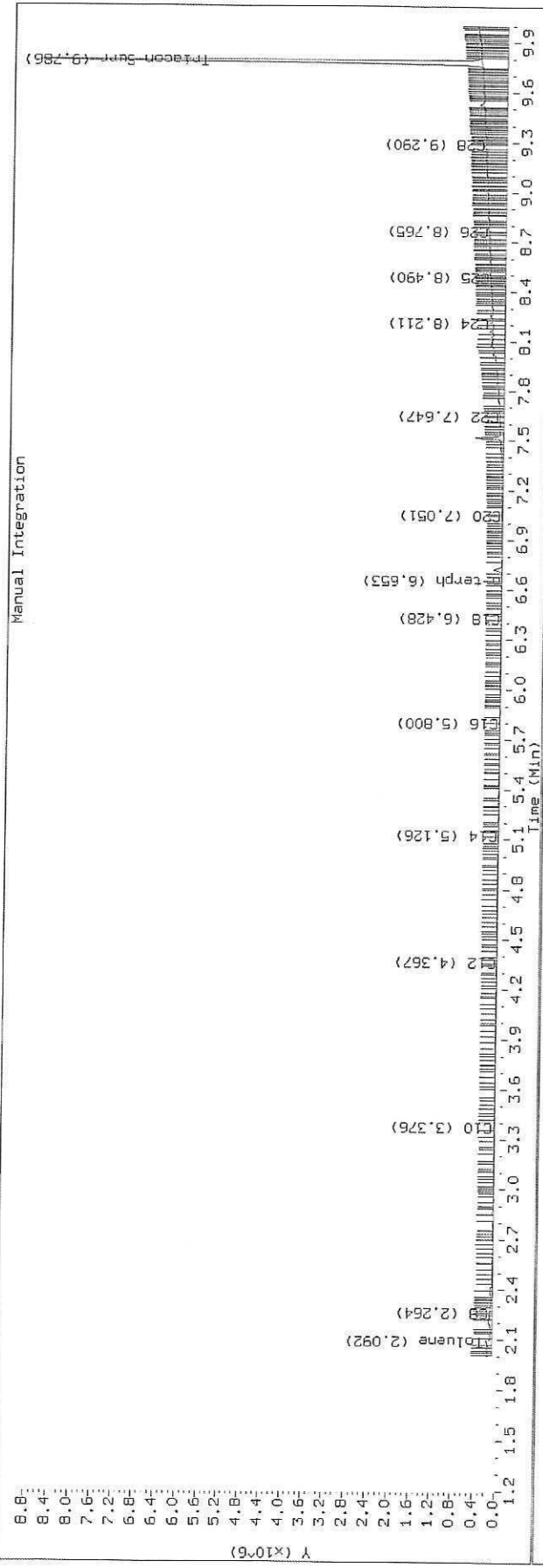
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019

Datafile: FID4A, 20191025.b/41902527.D SHJ0406-SCV3

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2527.D Injection: 25-OCT-2019 20:35
 Lab ID: SHJ0406-SCV3



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191119.b/419K1907.D
Method: 20191119.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/20/2019
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SHK0260-ICV3
Client ID:
Injection: 19-NOV-2019 15:10
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.258	-0.008	251291	294712	WATPHD	(C12-C24)	42051010	263.9
C10	3.371	-0.003	4406335	3424876	WATPHM	(C24-C38)	496216	3.7
C12	4.346	-0.001	4634910	4478760	AK102	(C10-C25)	82254431	420.8
C14	5.126	-0.002	3015617	2044036	AK103	(C25-C36)	286196	2.9
C16	5.801	-0.005	604553	490104	OR.DIES	(C10-C28)	82288476	419.8
C18	6.426	-0.007	88855	83248				
C20	7.035	-0.006	27599	35934	JET-A	(C10-C18)	81259124	500.0
C22	7.631	-0.006	14833	25191				
C24	8.208	-0.005	6203	10027				
C25	8.490	-0.002	3298	4254				
C26	8.761	-0.002	1681	2107				
C28	9.291	0.006	225	122				
C32	10.242	0.000	1787	779				
C34	10.677	-0.003	4152	2235				
Filter Peak	12.648	0.002	7181	4285	CREOSOT	(C12-C22)	41927190	817.4
C36	11.126	0.000	5955	3830				
C38	11.639	-0.004	6373	4434				
C40	12.278	0.002	7499	4100				
o-terph	6.651	-0.002	16020002	16763037				
Triacon Surr	9.804	0.002	747	319	NAS DIES	(C10-C24)	82236143	421.4

Range Times: NW Diesel(4.346 - 8.213) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.64) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	16763037	81.9
Triacotane	319	0.0

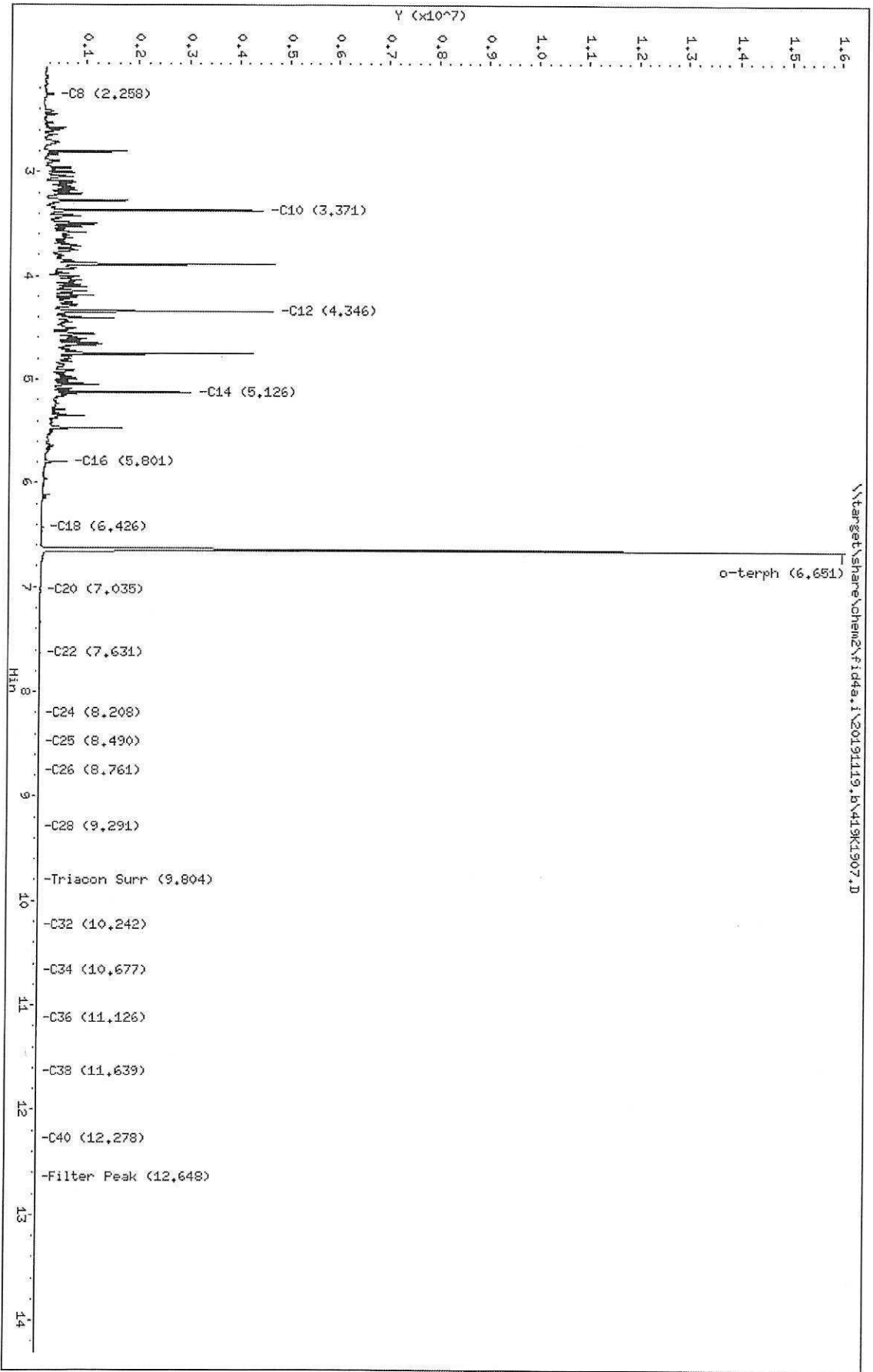
M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	51292.5	15-NOV-2019

Data File: \\target\share\chem2\fid4a.i\20191119.B\419K1307.D
Date: 19-NOV-2019 15:10
Client ID:
Sample Info: SHK0260-ICV3

Column phases: RTX-1

Instrument: fid4a.i
Operator: CTD
Column diameter: 0.25



Data File: \\target\share\chem2\fid4a,1\20200107_b\42040707.D

Date: 07-JAN-2020 10:42

Client ID:

Sample Info: SIR0065-ICV3

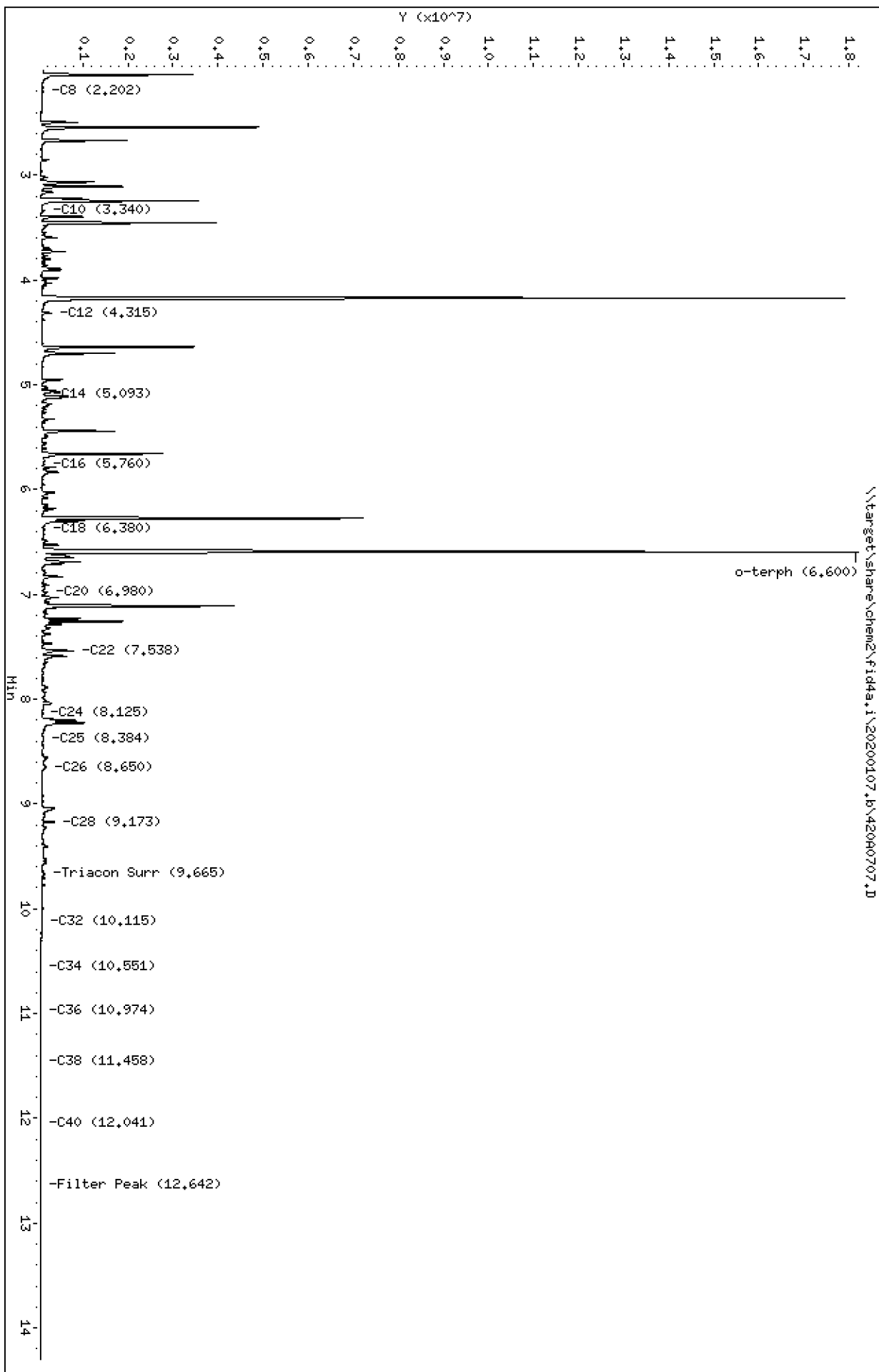
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200107.b/420A0707.D
Method: 20200107.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 01/08/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIA0065-ICV3
Client ID:
Injection: 07-JAN-2020 10:42
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

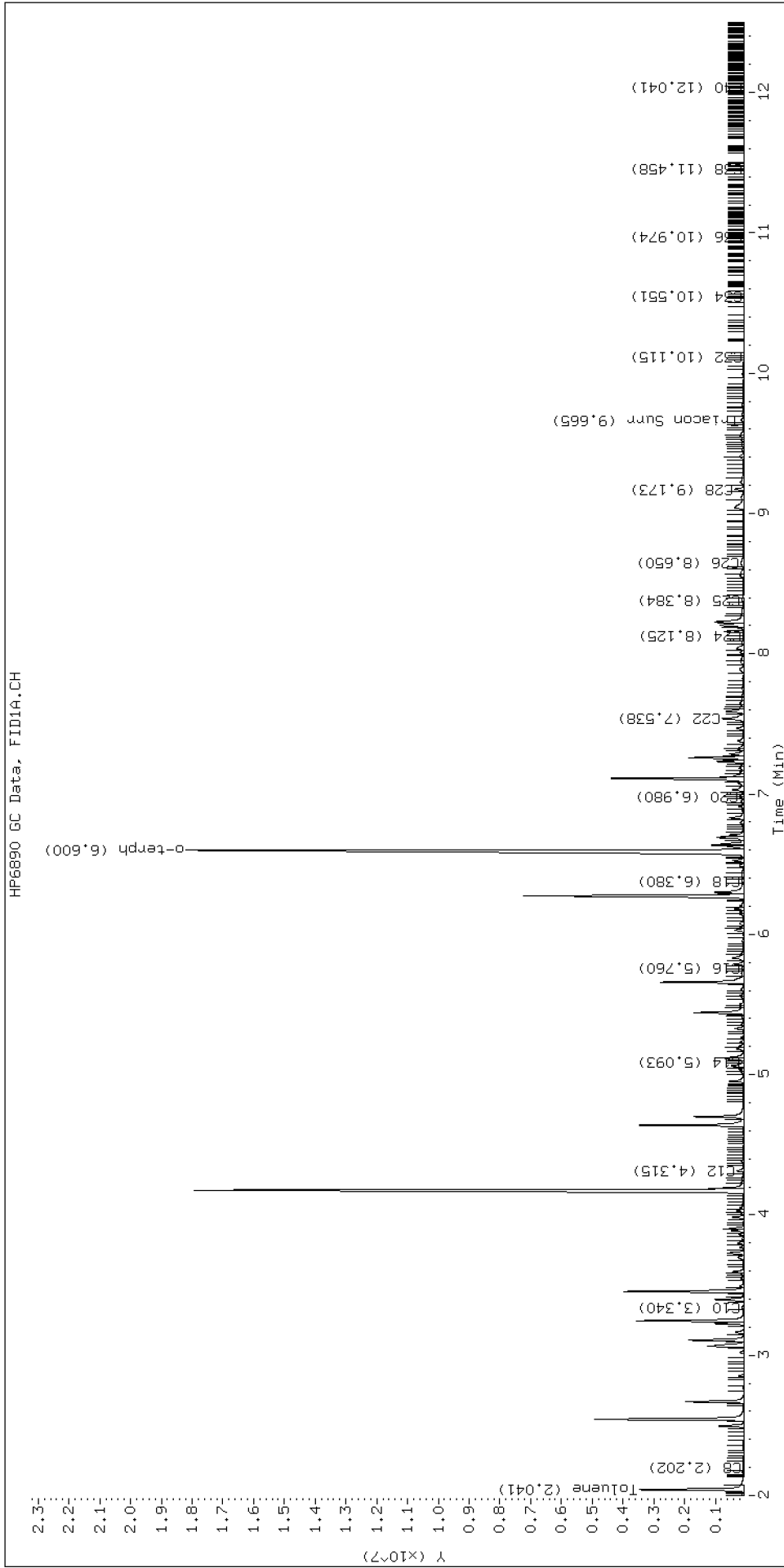
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.202	-0.016	48618	163148	WATPHD	(C12-C24)	39749068	249.5
C10	3.340	-0.003	90097	100393	WATPHM	(C24-C38)	8921905	67.3
C12	4.315	-0.003	247325	289347	AK102	(C10-C25)	67305313	344.3
C14	5.093	-0.003	88277	57691	AK103	(C25-C36)	6259973	62.6
C16	5.760	-0.005	76989	75637	OR.DIES	(C10-C28)	70713708	360.8
C18	6.380	-0.002	84390	113269				
C20	6.980	0.003	144985	120115	JET-A	(C10-C18)	47725210	293.7
C22	7.538	-0.024	728303	910269				
C24	8.125	-0.002	43865	44718				
C25	8.384	-0.017	65153	88015				
C26	8.650	-0.017	124266	355575				
C28	9.173	-0.007	310713	322767				
C32	10.115	-0.005	18488	10140				
C34	10.551	-0.003	12121	8350				
Filter Peak	12.642	-0.014	5310	3162	CREOSOT	(C12-C22)	37368560	1000.0
C36	10.974	-0.004	10765	7465				
C38	11.458	0.001	10672	2663				
C40	12.041	-0.000	6716	3626				
o-terph	6.600	0.002	18150486	20216219				
Triacon Surr	9.665	-0.021	100173	177367	NAS DIES	(C10-C24)	64884221	332.5

Range Times: NW Diesel(4.318 - 8.127) AK102(3.34 - 8.40) Jet A(3.34 - 6.38)
NW M.Oil(8.13 - 11.46) AK103(8.40 - 10.98) OR Diesel(3.34 - 9.18)

Surrogate	Area	Amount
o-Terphenyl	20216219	98.8
Triacontane	177367	1.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	37368.6	15-NOV-2019



GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200313b.b

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2	13-MAR-2020	13:38	420C1311.D	1	RINSE	
3	13-MAR-2020	13:58	420C1312.D	1	SEQ-IBL1	
4	13-MAR-2020	14:17	420C1313.D	1	SEQ-IBL2	
5	13-MAR-2020	14:37	420C1314.D	1	SEQ-CAL1	
6	13-MAR-2020	14:56	420C1315.D	1	SEQ-CAL2	
7	13-MAR-2020	15:15	420C1316.D	1	SEQ-CAL3	
8	13-MAR-2020	15:35	420C1317.D	1	SEQ-CAL4	
9	13-MAR-2020	15:54	420C1318.D	1	SEQ-CAL5	
10	13-MAR-2020	16:13	420C1319.D	1	SEQ-CAL6	
11	13-MAR-2020	16:33	420C1320.D	1	SEQ-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200313b.b

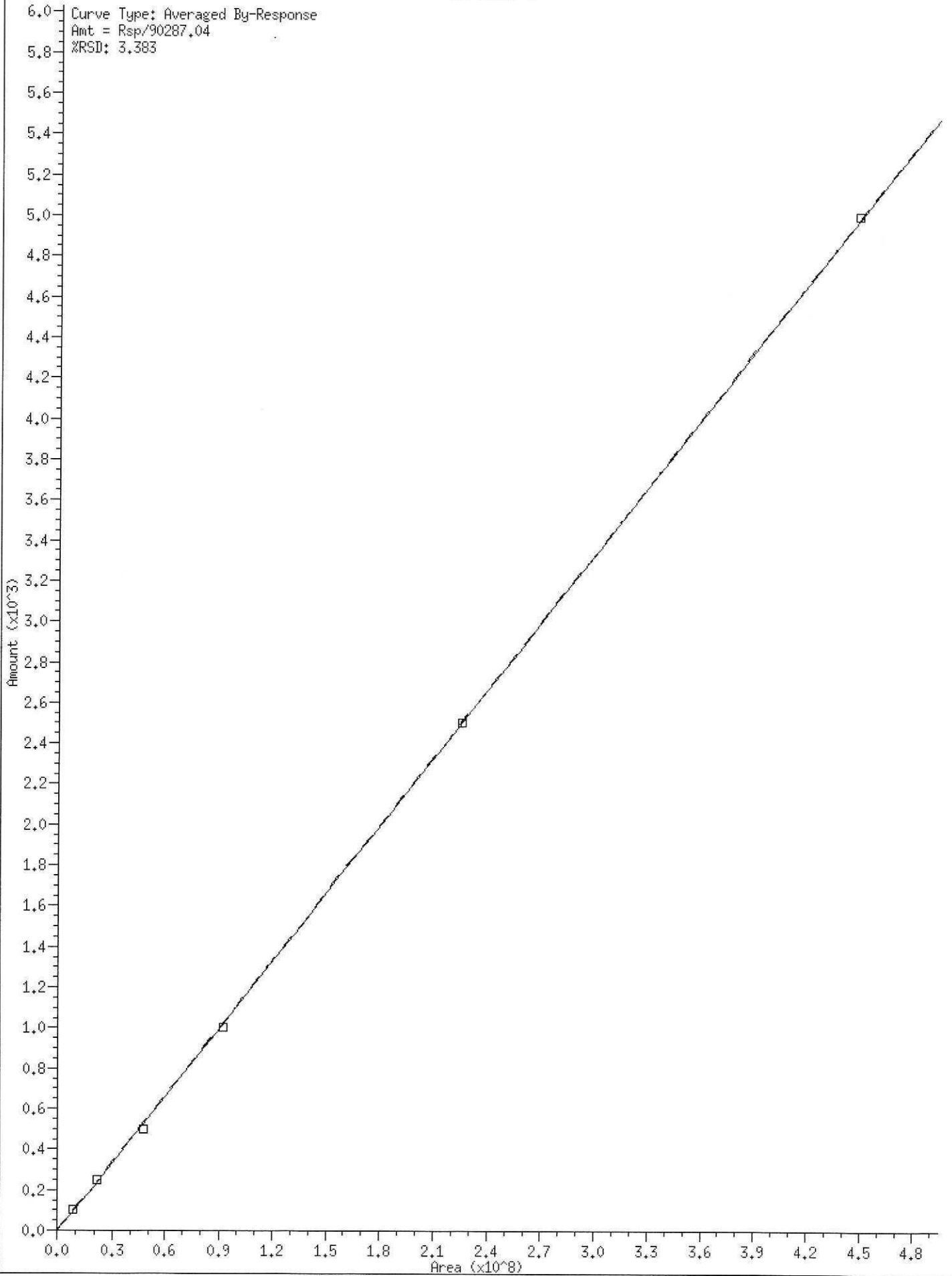
ARI Job No.: RINS Method: b\FID4TPH.m Instrument: fid4a.i Date: 13-MAR-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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1338	420C1311.D	RINSE		1	NO MANUAL INTEGRATION
1358	420C1312.D	SEQ-IBL1		1	C14, C16, C40,
1417	420C1313.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
1437	420C1314.D	SEQ-CAL1		1	C20, o-terph,
1456	420C1315.D	SEQ-CAL2		1	o-terph,
1515	420C1316.D	SEQ-CAL3		1	o-terph,
1535	420C1317.D	SEQ-CAL4		1	o-terph,
1554	420C1318.D	SEQ-CAL5		1	o-terph,
1613	420C1319.D	SEQ-CAL6		1	o-terph,
1633	420C1320.D	SEQ-SCV1		1	o-terph,

Security Status Report

Date: 16-Mar-2020 10:37

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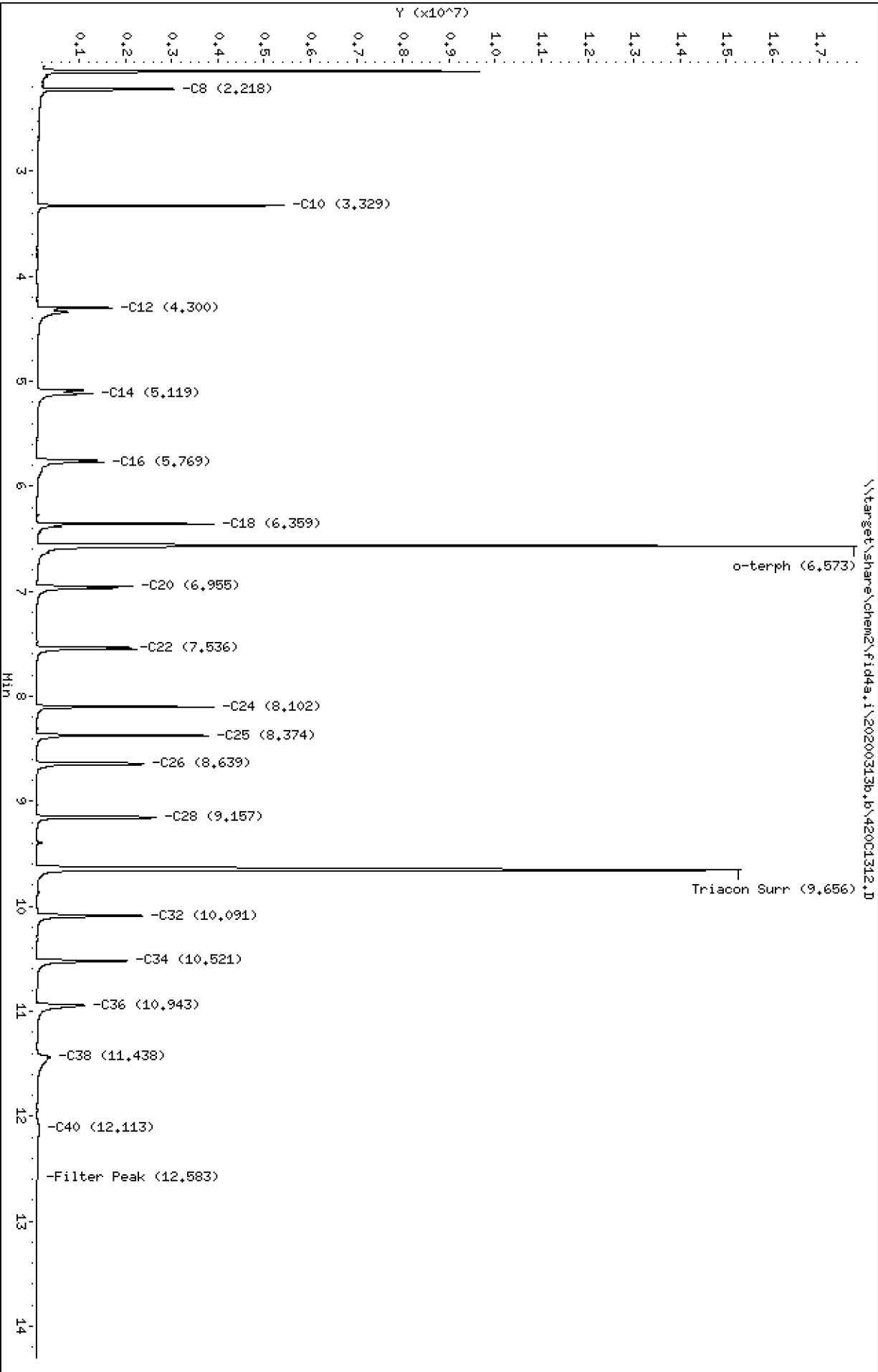


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Date: 13-MAR-2020 13:58
Client ID:
Sample Info: SEQ-IBL1

Instrument: fid4a,1

Column phase: RTX-1

Operator: JGR/CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200313b.b/420C1312.D
Method: 20200313b.b\FID4TPH.m
Instrument: fid4a.i, JGR/CTO
Report Date: 03/16/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL1
Client ID:
Injection: 13-MAR-2020 13:58
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

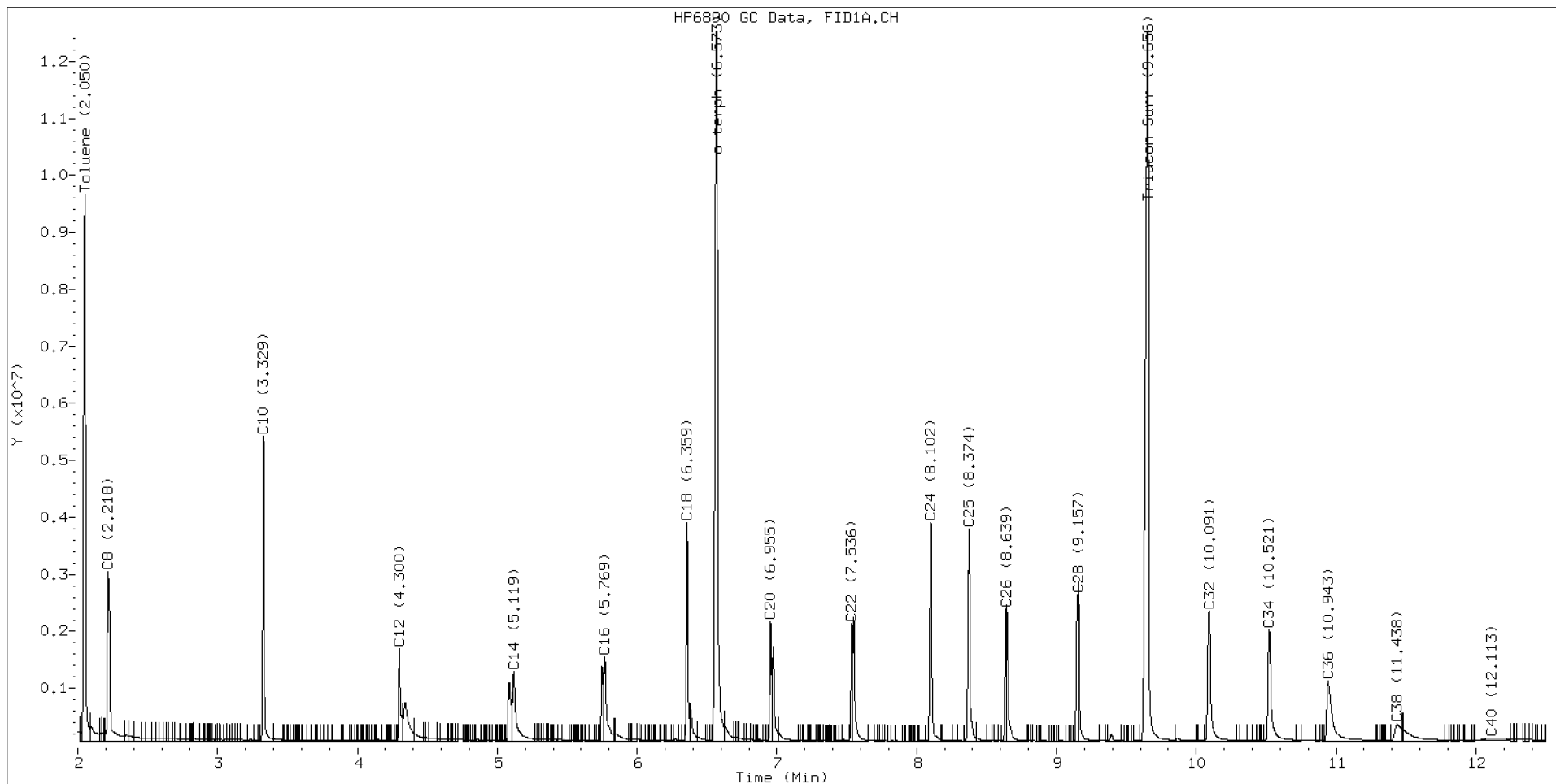
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.218	0.000	2976230	4258439	WATPHD	(C12-C24)	25653686	161.0
C10	3.329	0.000	5344126	3820334	WATPHM	(C24-C38)	24648964	185.8
C12	4.300	0.000	1627839	1465465	AK102	(C10-C25)	33671106	172.2
C14	5.119	0.000	1211179	2316863	AK103	(C25-C36)	22381765	223.9
C16	5.769	0.000	1467779	2055226	OR.DIES	(C10-C28)	45134921	230.3
C18	6.359	0.000	3826171	2734269				
C20	6.955	0.000	2088529	1719914	JET-A	(C10-C18)	20940040	128.8
C22	7.536	0.000	2056324	1623779				
C24	8.102	0.000	3838521	3671153				
C25	8.374	0.000	3714467	3687728				
C26	8.639	0.000	2319360	1780980				
C28	9.157	0.000	2575228	1984332				
C32	10.091	0.000	2278132	3706147				
C34	10.521	0.000	1957102	3424532				
Filter Peak	12.583	0.000	15498	11459	BUNKERC	(C10-C38)	58214945	644.8
C36	10.943	0.000	1054808	3160882				
C38	11.438	0.000	297596	868760				
C40	12.113	0.000	42933	427810				
o-terph	6.573	0.000	17734649	19762248				
Triacon Surr	9.656	0.000	15228657	21480068	NAS DIES	(C10-C24)	33565981	172.0

Range Times: NW Diesel(4.300 - 8.102) AK102(3.33 - 8.37) Jet A(3.33 - 6.36)
NW M.Oil(8.10 - 11.44) AK103(8.37 - 10.94) OR Diesel(3.33 - 9.16)

Surrogate	Area	Amount
o-Terphenyl	19762248	96.5
Triacontane	21480068	120.7

M Indicates the peak was manually integrated

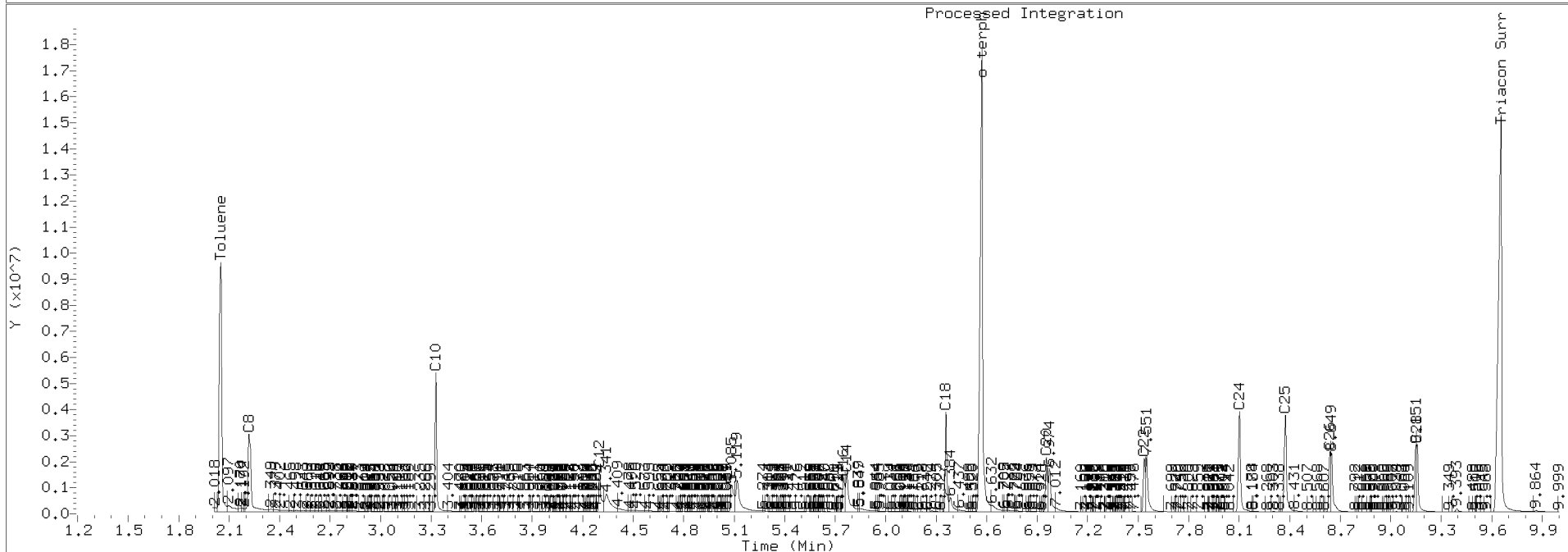
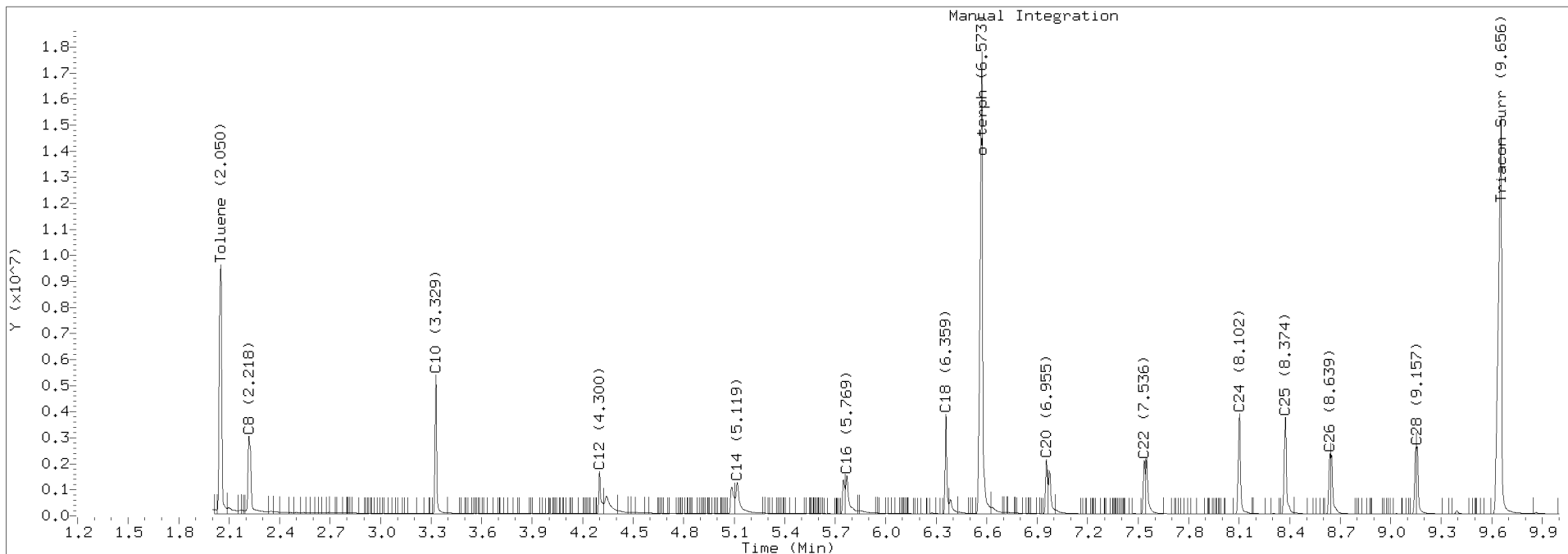
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	90287.0	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200313b.b/420C1312.D Injection: 13-MAR-2020 13:58

Lab ID:SEQ-IBL1



Data File: \\target\share\chem2\fid4a.i\20200313b.b\420C1313.D
Date: 13-MAR-2020 14:17

Client ID:

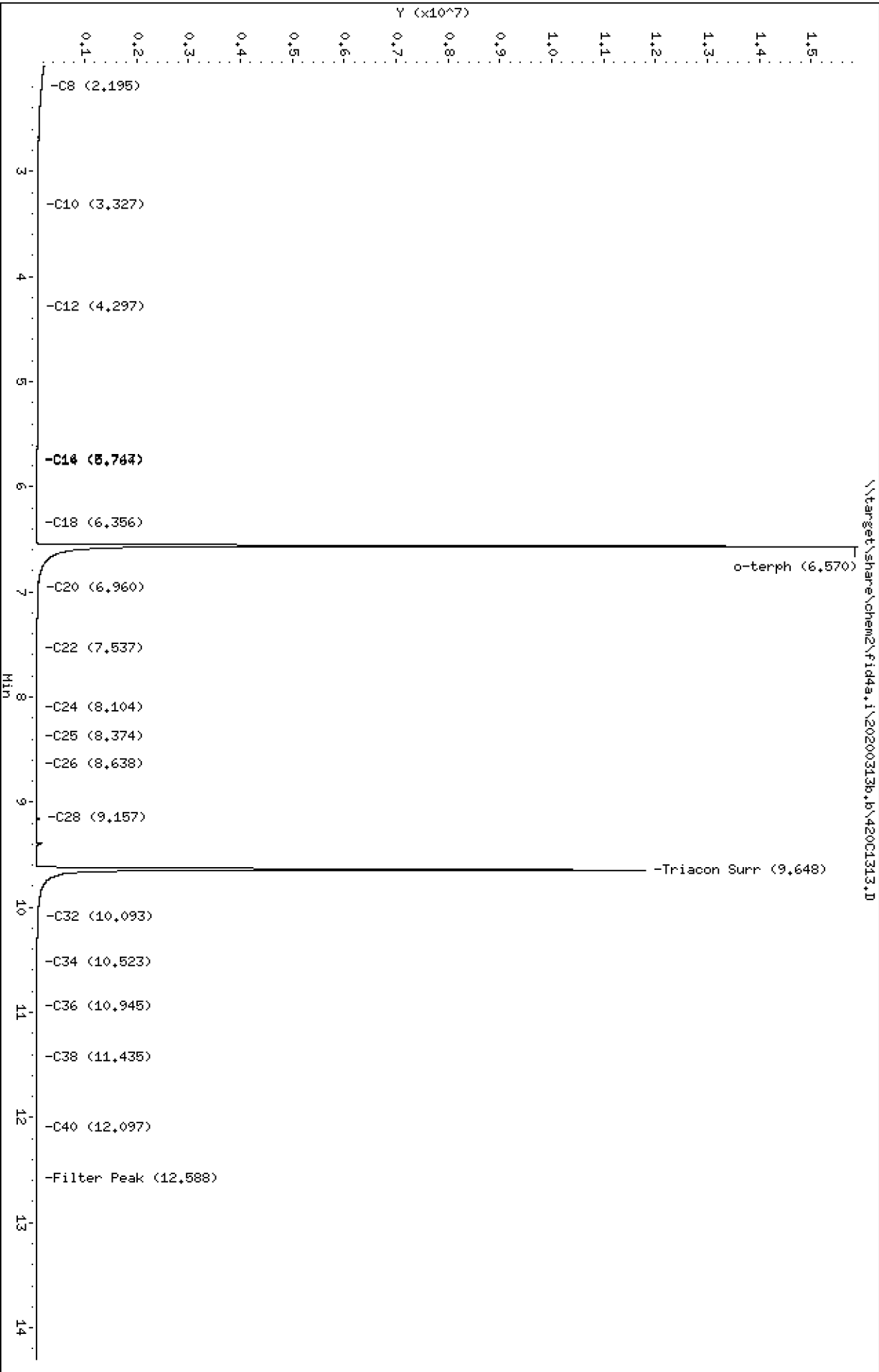
Sample Info: SEQ-IBL2

Column phase: RTX-1

Instrument: fid4a.i

Operator: JGR/CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200313b.b/420C1313.D
Method: 20200313b.b\FID4TPH.m
Instrument: fid4a.i, JGR/CTO
Report Date: 03/16/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL2
Client ID:
Injection: 13-MAR-2020 14:17
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

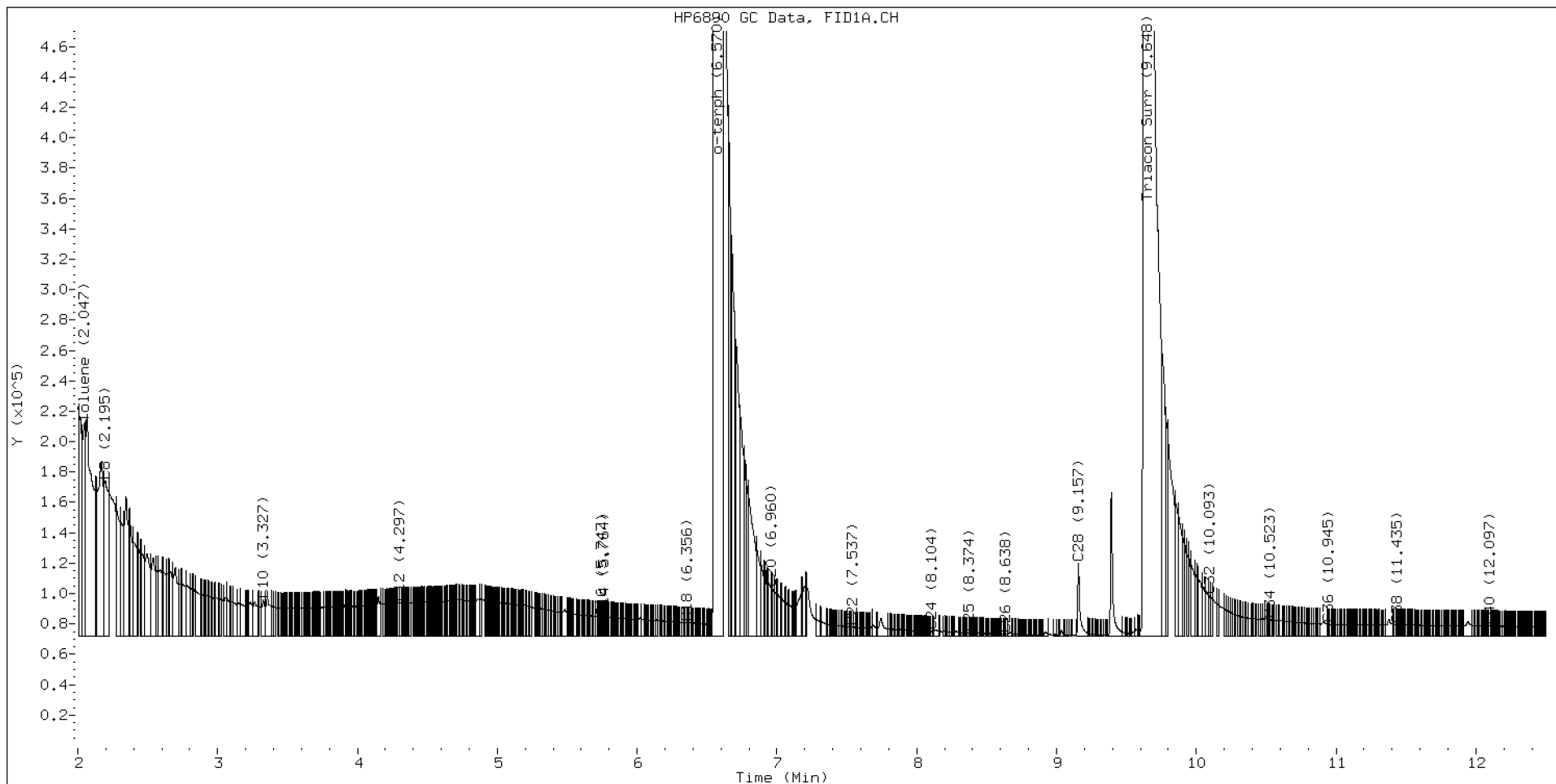
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.195	-0.023	101964	220885	WATPHD	(C12-C24)	4394210	27.6
C10	3.327	-0.002	23471	39087	WATPHM	(C24-C38)	1967673	14.8
C12	4.297	-0.003	21590	18255	AK102	(C10-C25)	5527366	28.3
C14	5.764	0.646	12422	5561	AK103	(C25-C36)	1745508	17.5
C16	5.747	-0.023	12369	2467	OR.DIES	(C10-C28)	5623934	28.7
C18	6.356	-0.003	8501	4208				
C20	6.960	0.005	31175	16901	JET-A	(C10-C18)	2939860	18.1
C22	7.537	0.001	5711	4529				
C24	8.104	0.002	2800	1652				
C25	8.374	-0.000	1751	510				
C26	8.638	-0.001	937	696				
C28	9.157	-0.000	47642	54613				
C32	10.093	0.002	26114	21739				
C34	10.523	0.002	10438	2073				
Filter Peak	12.588	0.006	5962	3842	BUNKERC	(C10-C38)	7477104	82.8
C36	10.945	0.002	7658	3422				
C38	11.435	-0.003	7168	3926				
C40	12.097	-0.015	6296	3463				
o-terph	6.570	-0.003	15826099	17209481				
Triacon Surr	9.648	-0.008	11725247	15722765	NAS DIES	(C10-C24)	5509432	28.2

Range Times: NW Diesel(4.300 - 8.102) AK102(3.33 - 8.37) Jet A(3.33 - 6.36)
NW M.Oil(8.10 - 11.44) AK103(8.37 - 10.94) OR Diesel(3.33 - 9.16)

Surrogate	Area	Amount
o-Terphenyl	17209481	84.1
Triacontane	15722765	88.3

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	90287.0	13-MAR-2020



GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200408.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	08-APR-2020	08:18	420D0801.D	1	RINSE	
2	08-APR-2020	08:37	420D0802.D	1	RINSE	
3	08-APR-2020	08:56	420D0803.D	1	RINSE	
4	08-APR-2020	09:16	420D0804.D	1	RINSE	
5	08-APR-2020	09:35	420D0805.D	1	SEQ-IBL1	
6	08-APR-2020	09:54	420D0806.D	1	SEQ-IBL2	
7	08-APR-2020	10:14	420D0807.D	1	SEQ-CAL1	
8	08-APR-2020	10:33	420D0808.D	1	SEQ-CAL2	
9	08-APR-2020	10:53	420D0809.D	1	SEQ-CAL3	
10	08-APR-2020	11:12	420D0810.D	1	SEQ-CAL4	
11	08-APR-2020	11:32	420D0811.D	1	SEQ-CAL5	
12	08-APR-2020	11:51	420D0812.D	1	SEQ-CAL6	
13	08-APR-2020	12:11	420D0813.D	1	SEQ-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200408.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 08-APR-2020

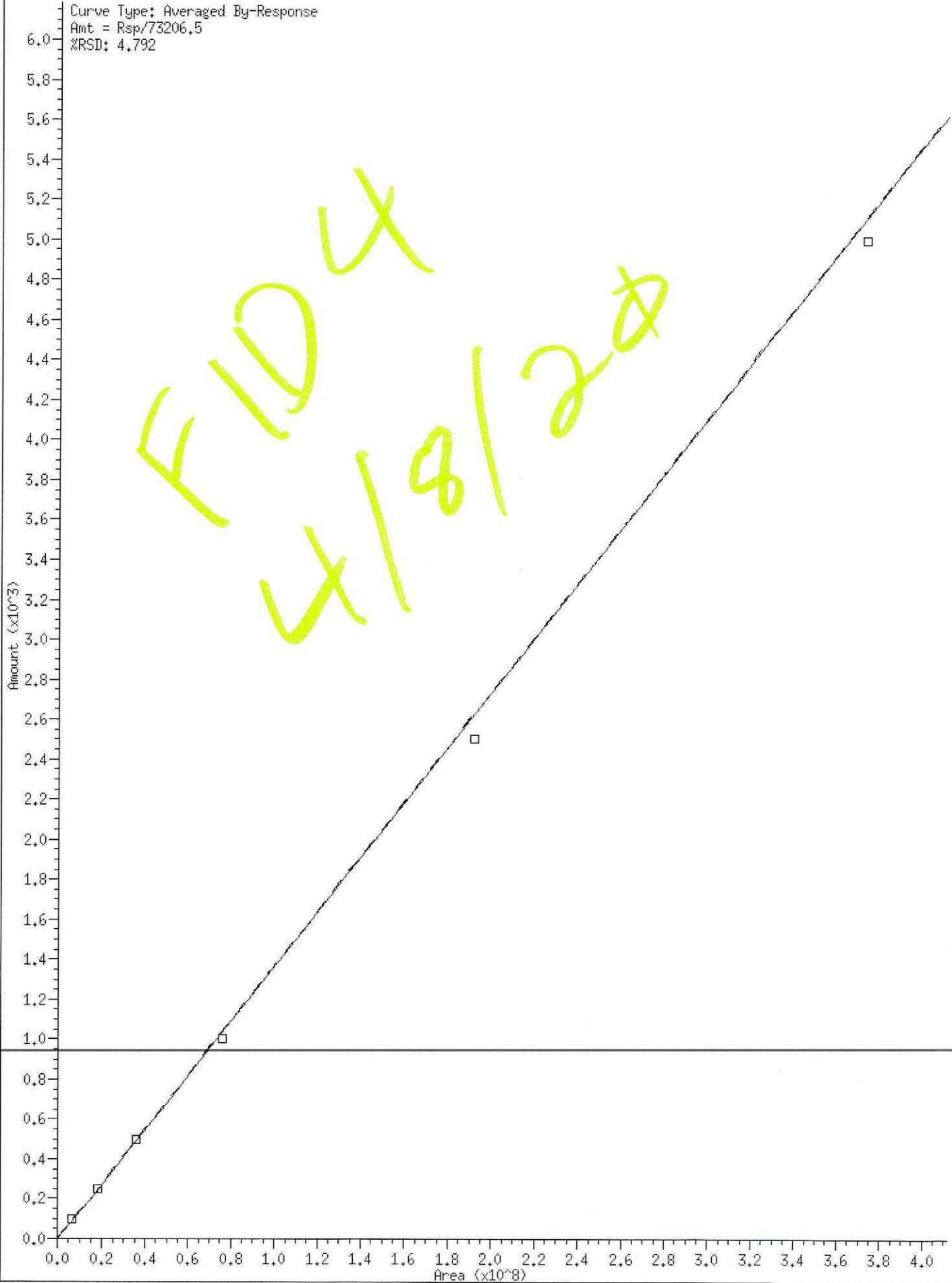
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0837	420D0802.D	RINSE		1	NO MANUAL INTEGRATION
0856	420D0803.D	RINSE		1	NO MANUAL INTEGRATION
0916	420D0804.D	RINSE		1	NO MANUAL INTEGRATION
0935	420D0805.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0954	420D0806.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
1014	420D0807.D	SEQ-CAL1		1	Triacon Surr,
1033	420D0808.D	SEQ-CAL2		1	Triacon Surr,
1053	420D0809.D	SEQ-CAL3		1	Triacon Surr,
1112	420D0810.D	SEQ-CAL4		1	Triacon Surr,
1132	420D0811.D	SEQ-CAL5		1	Triacon Surr,
1151	420D0812.D	SEQ-CAL6		1	Triacon Surr,
1211	420D0813.D	SEQ-SCV1		1	Triacon Surr,

Security Status Report

Date: 20-Apr-2020 07:47

420D0801.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0802.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0803.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0804.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0805.D	Data Locked	christopher, 20-Apr-2020 07:45
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420D0807.D	Data Locked	christopher, 20-Apr-2020 07:45
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Curve Type: Averaged By-Response
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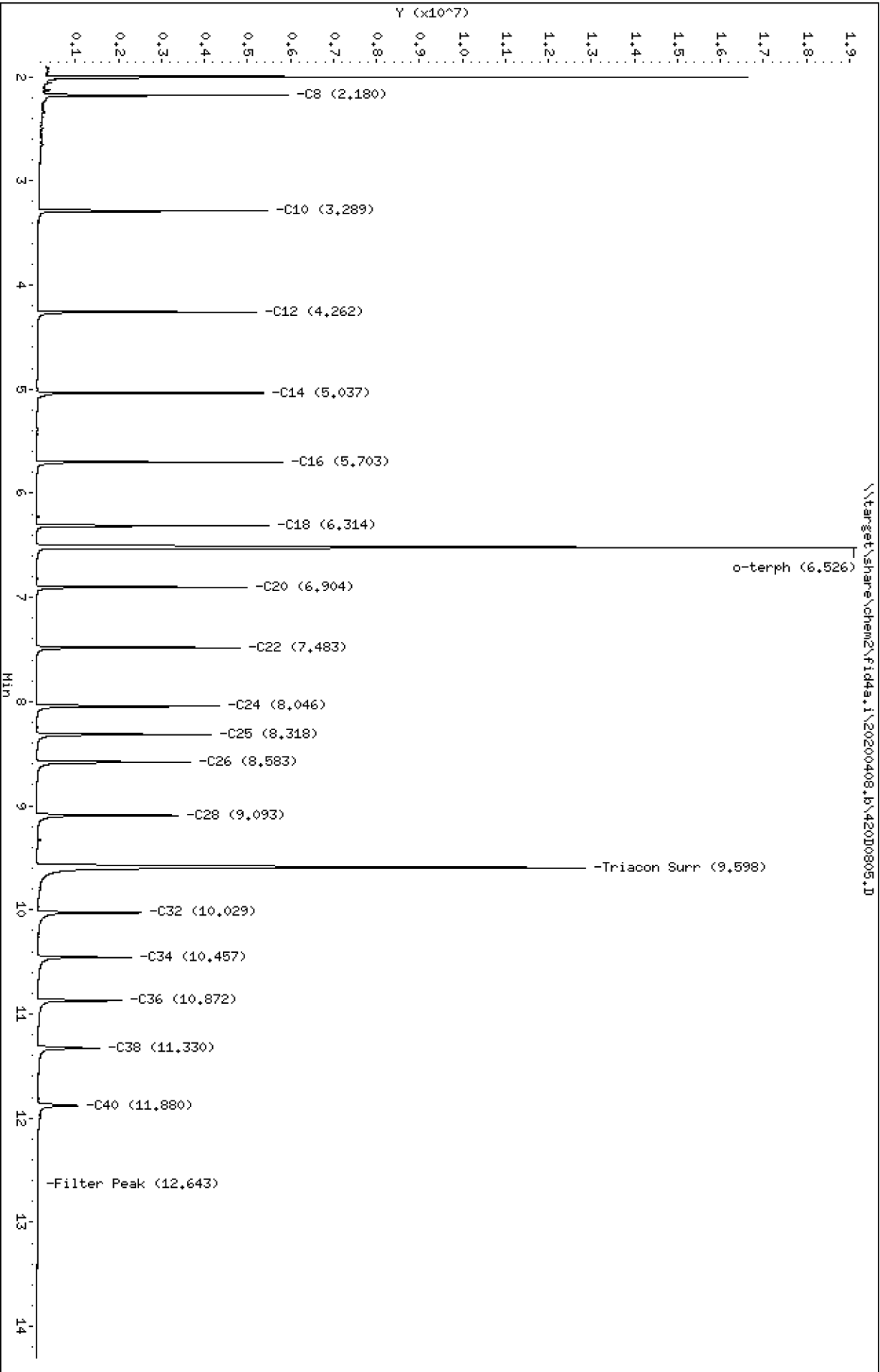
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Date: 08-APR-2020 09:35
Client ID:
Sample Info: SEQ-IBL1

Instrument: fid4a,1

Page 1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0805.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL1
Client ID:
Injection: 08-APR-2020 09:35
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

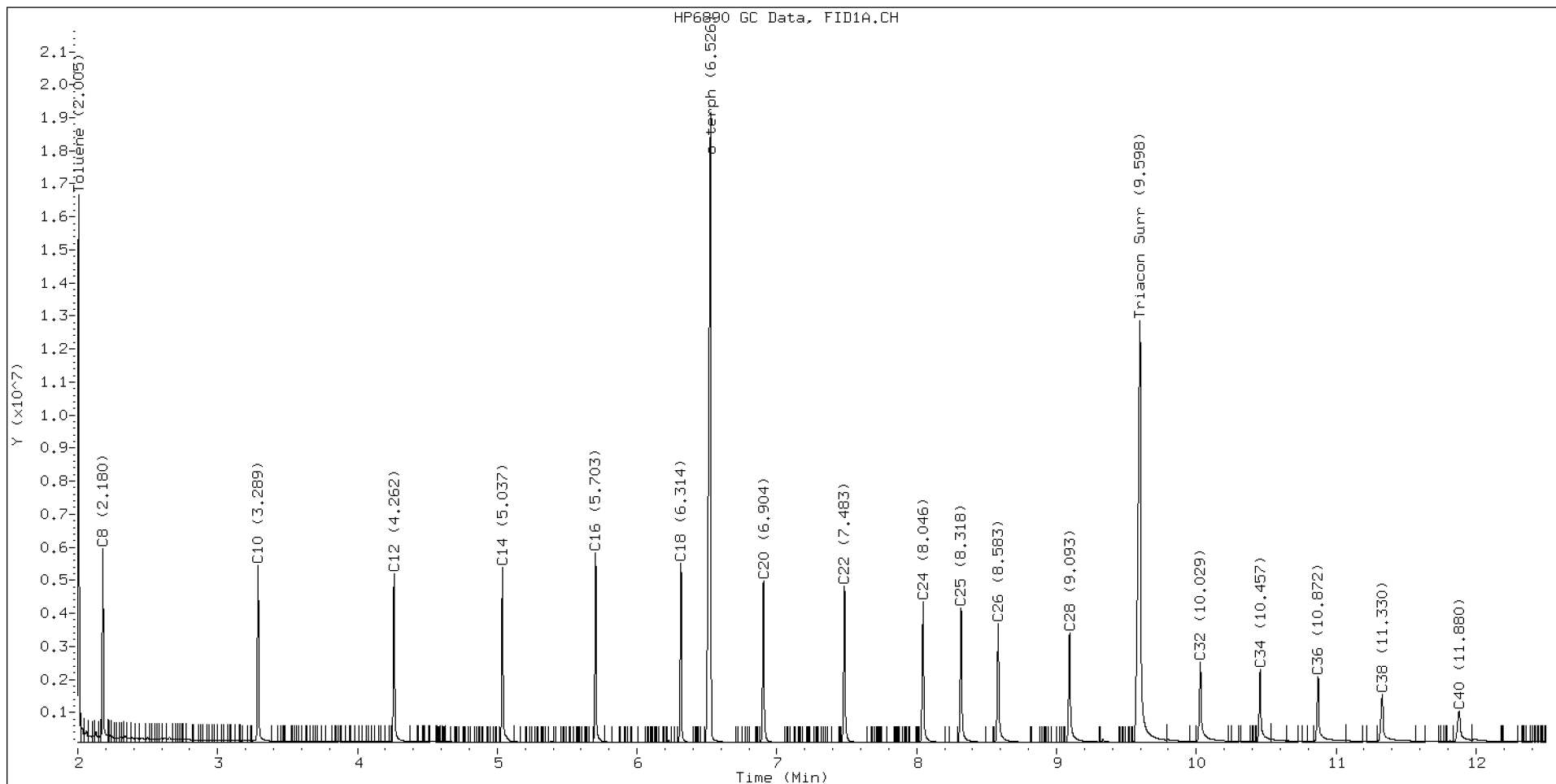
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.180	0.000	5854578	3880900	WATPHD	(C12-C24)	23844320	149.6
C10	3.289	0.000	5366559	4126403	WATPHM	(C24-C38)	25592918	193.0
C12	4.262	0.000	5124561	3862358	AK102	(C10-C25)	33609761	171.9
C14	5.037	0.000	5288886	3763422	AK103	(C25-C36)	22232777	303.7
C16	5.703	0.000	5732523	3728447	OR.DIES	(C10-C28)	44736298	228.2
C18	6.314	0.000	5411782	3657526				
C20	6.904	0.000	4900797	3740470	JET-A	(C10-C18)	22288154	137.1
C22	7.483	0.000	4744655	3709257				
C24	8.046	0.000	4260497	3629044				
C25	8.318	0.000	4069494	3709557				
C26	8.583	0.000	3584730	3671884				
C28	9.093	0.000	3305135	3592573				
C32	10.029	0.000	2427612	3418058				
C34	10.457	0.000	2206236	2535109				
Filter Peak	12.643	0.000	24370	14568	CREOSOT	(C12-C22)	20184280	489.5
C36	10.872	0.000	1991705	2941804				
C38	11.330	0.000	1466266	2825666				
C40	11.880	0.000	962855	1921380				
o-terph	6.526	0.000	19078927	20504006				
Triacon Surr	9.598	0.000	12764177	20099945	NAS DIES	(C10-C24)	33554764	171.9

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	20504006	100.2
Triacontane	20099945	112.9

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200408_b\420D0806.D

Date : 08-APR-2020 09:54

Client ID:

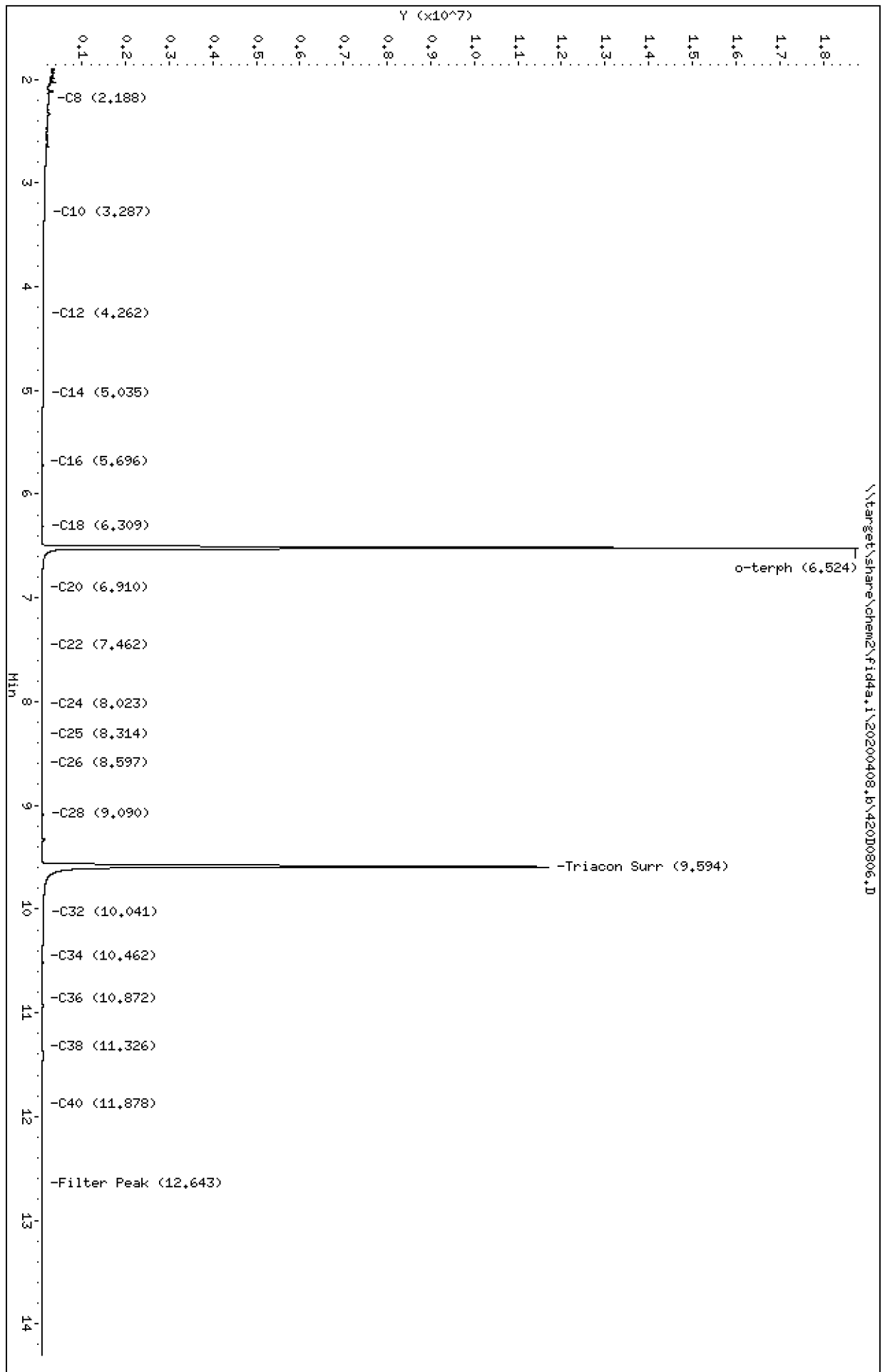
Sample Info: SEQ-IBL2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0806.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL2
Client ID:
Injection: 08-APR-2020 09:54
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

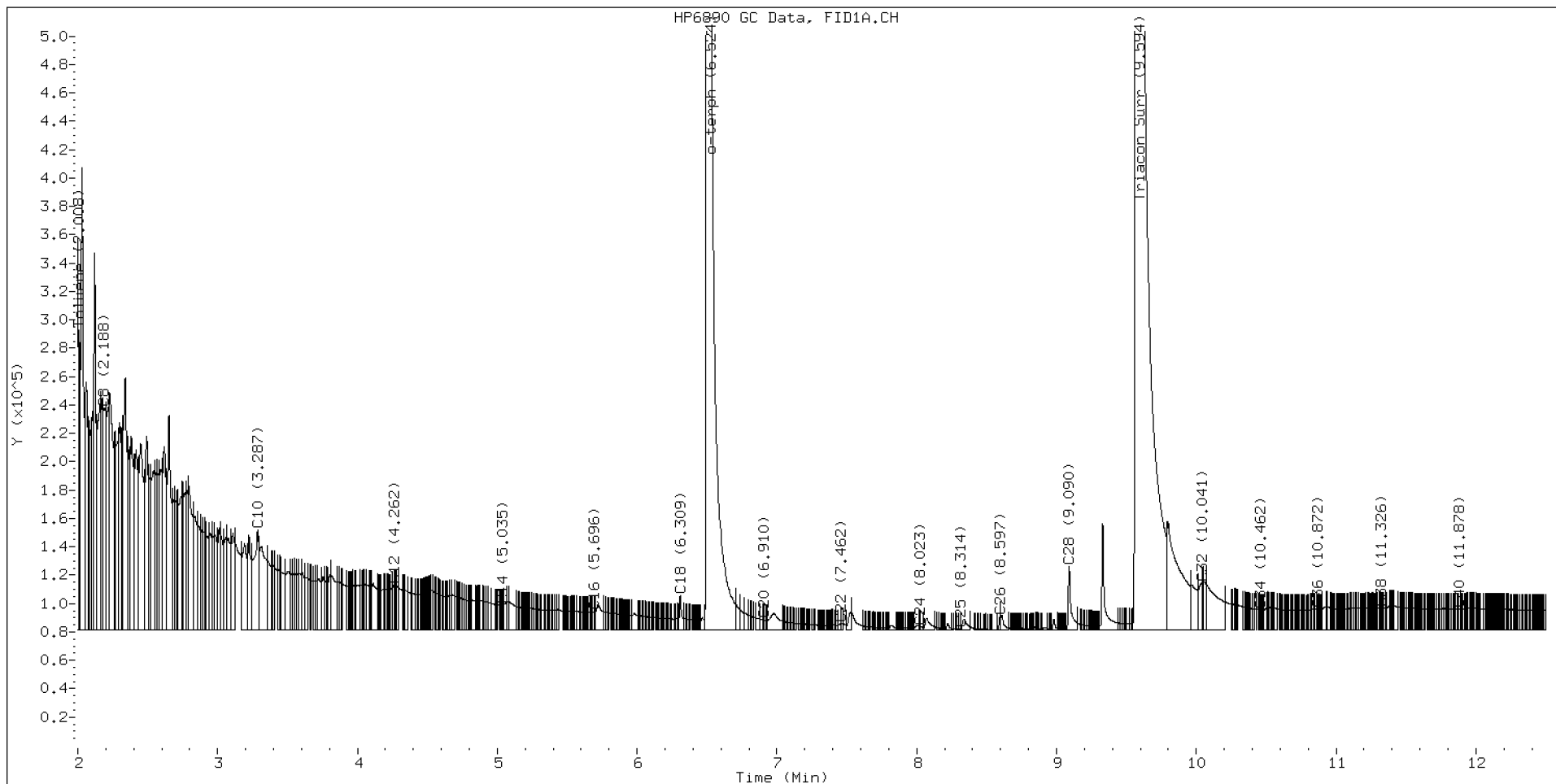
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.188	0.008	156546	216359	WATPHD	(C12-C24)	2059708	12.9
C10	3.287	-0.002	70586	177016	WATPHM	(C24-C38)	2023092	15.3
C12	4.262	-0.001	31694	27721	AK102	(C10-C25)	4136621	21.2
C14	5.035	-0.002	17658	7042	AK103	(C25-C36)	1615485	22.1
C16	5.696	-0.007	12809	8245	OR.DIES	(C10-C28)	4264948	21.8
C18	6.309	-0.005	24517	27940				
C20	6.910	0.006	6999	5164	JET-A	(C10-C18)	3753376	23.1
C22	7.462	-0.022	4699	4900				
C24	8.023	-0.022	2331	3320				
C25	8.314	-0.004	531	126				
C26	8.597	0.013	9349	6545				
C28	9.090	-0.003	44536	62849				
C32	10.041	0.012	33011	55502				
C34	10.462	0.005	14086	9836				
Filter Peak	12.643	0.000	14153	3524	CREOSOT	(C12-C22)	1999313	48.5
C36	10.872	0.000	14385	7864				
C38	11.326	-0.004	15213	8324				
C40	11.878	-0.002	14557	10126				
o-terph	6.524	-0.002	18718308	20250783				
Triacon Surr	9.594	-0.004	11617864	16294307	NAS DIES	(C10-C24)	4126955	21.1

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	20250783	98.9
Triacontane	16294307	91.6

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200408_b\42010807.D
Date : 08-APR-2020 10:14

Client ID:

Sample Info: SEQ-CALL

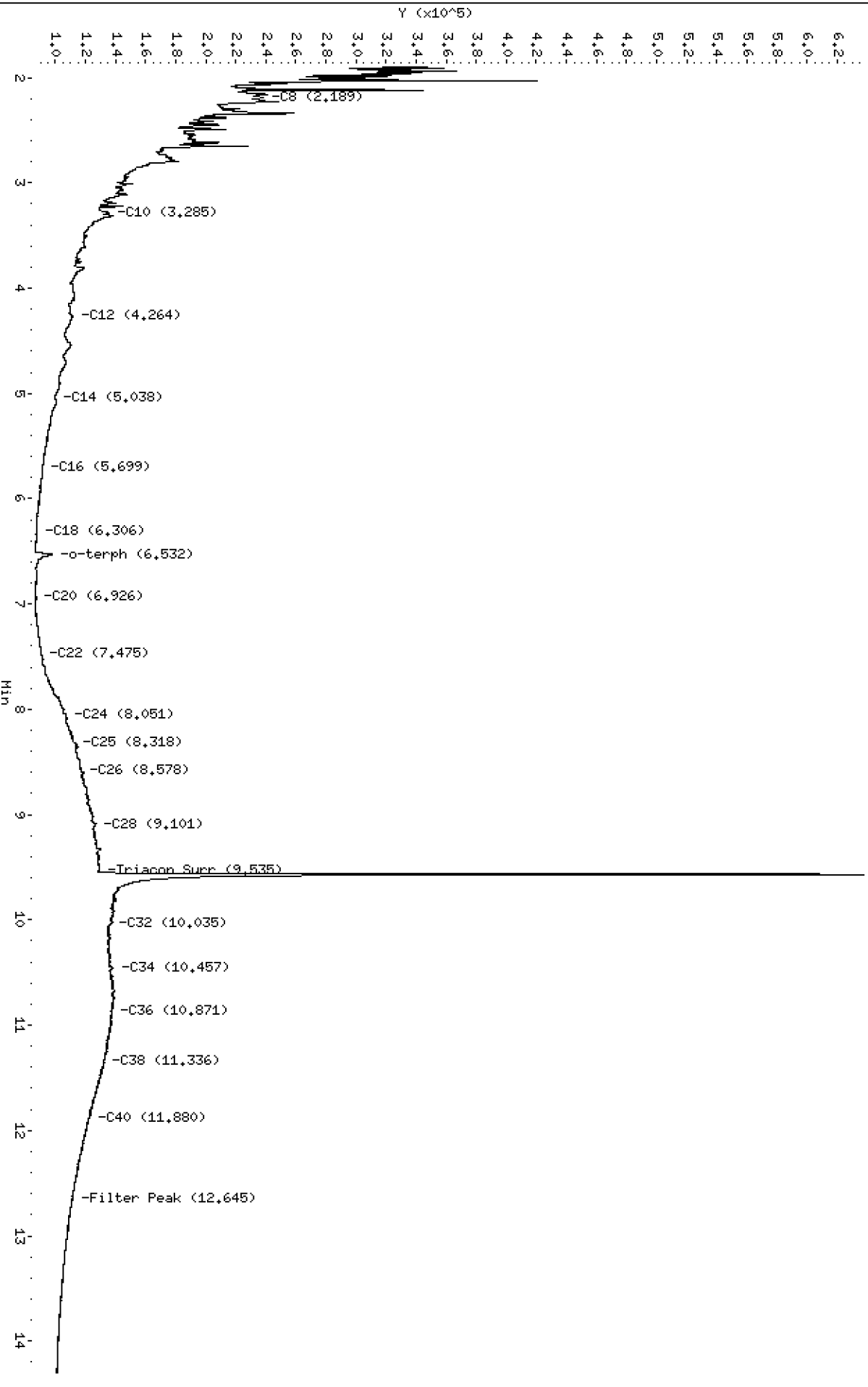
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408_b\42010807.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0807.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL1
Client ID:
Injection: 08-APR-2020 10:14
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

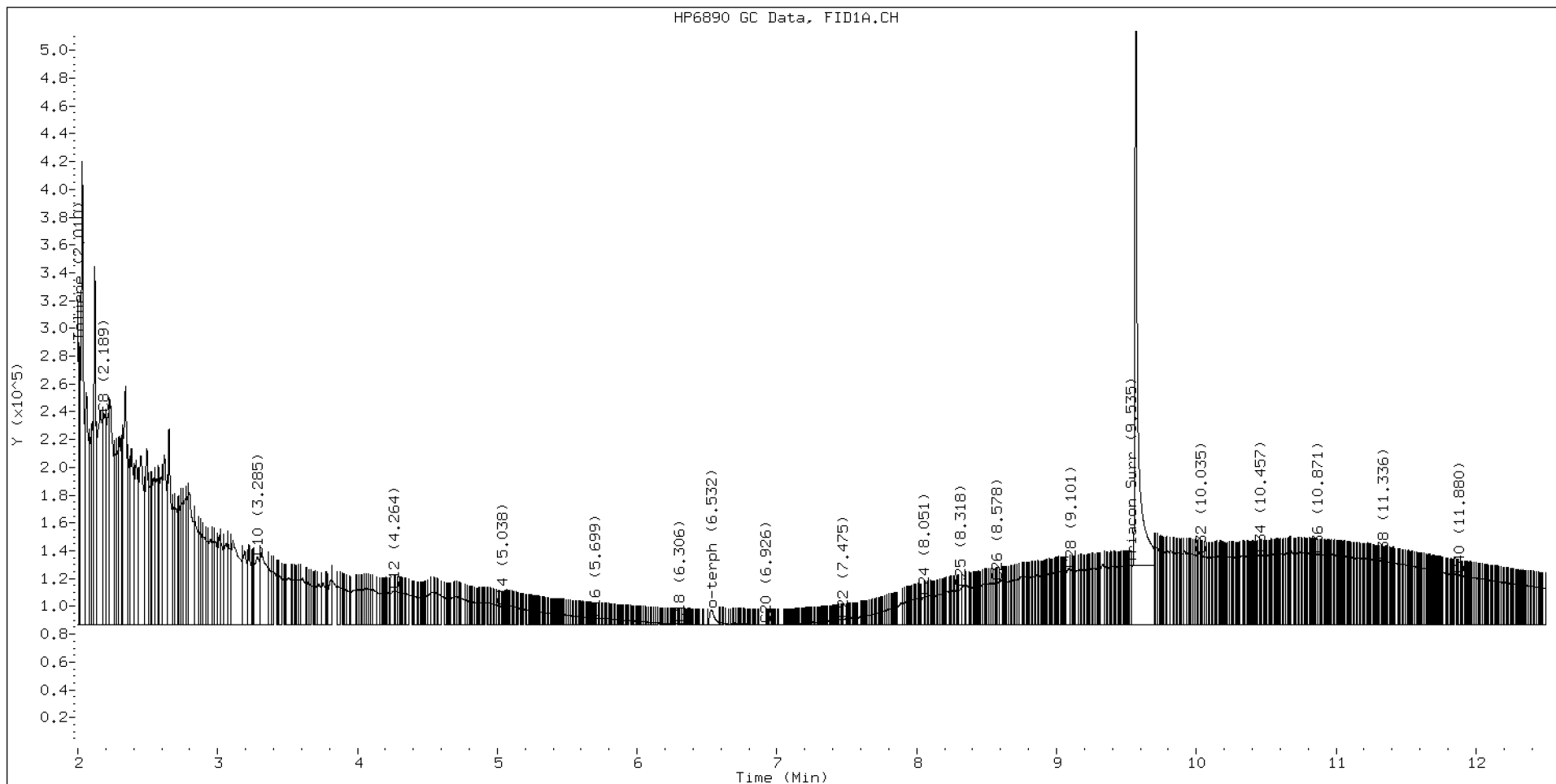
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.189	0.009	152083	238009	WATPHD	(C12-C24)	1535455	9.6
C10	3.285	-0.004	49113	104559	WATPHM	(C24-C38)	8187148	61.7
C12	4.264	0.002	24631	8600	AK102	(C10-C25)	3445901	17.6
C14	5.038	0.001	13117	3929	AK103	(C25-C36)	6705828	91.6
C16	5.699	-0.004	4845	2404	OR.DIES	(C10-C28)	5120557	26.1
C18	6.306	-0.008	853	562				
C20	6.926	0.022	403	144	JET-A	(C10-C18)	2755712	17.0
C22	7.475	-0.008	3796	753				
C24	8.051	0.006	20077	24027				
C25	8.318	-0.000	26103	25417				
C26	8.578	-0.005	30795	28994				
C28	9.101	0.007	39800	29577				
C32	10.035	0.006	50014	24947				
C34	10.457	-0.000	51363	30680				
Filter Peak	12.645	0.002	24706	12307	CREOSOT	(C12-C22)	1140595	27.7
C36	10.871	-0.000	50437	10078				
C38	11.336	0.007	45528	18190				
C40	11.880	-0.000	36310	26801				
o-terph	6.532	0.007	11031	27133				
Triacon Surr	9.568	-0.030	508463	647323	NAS DIES	(C10-C24)	3228669	16.5

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	27133	0.1
Triacontane	647323	3.6 M

M Indicates the peak was manually integrated

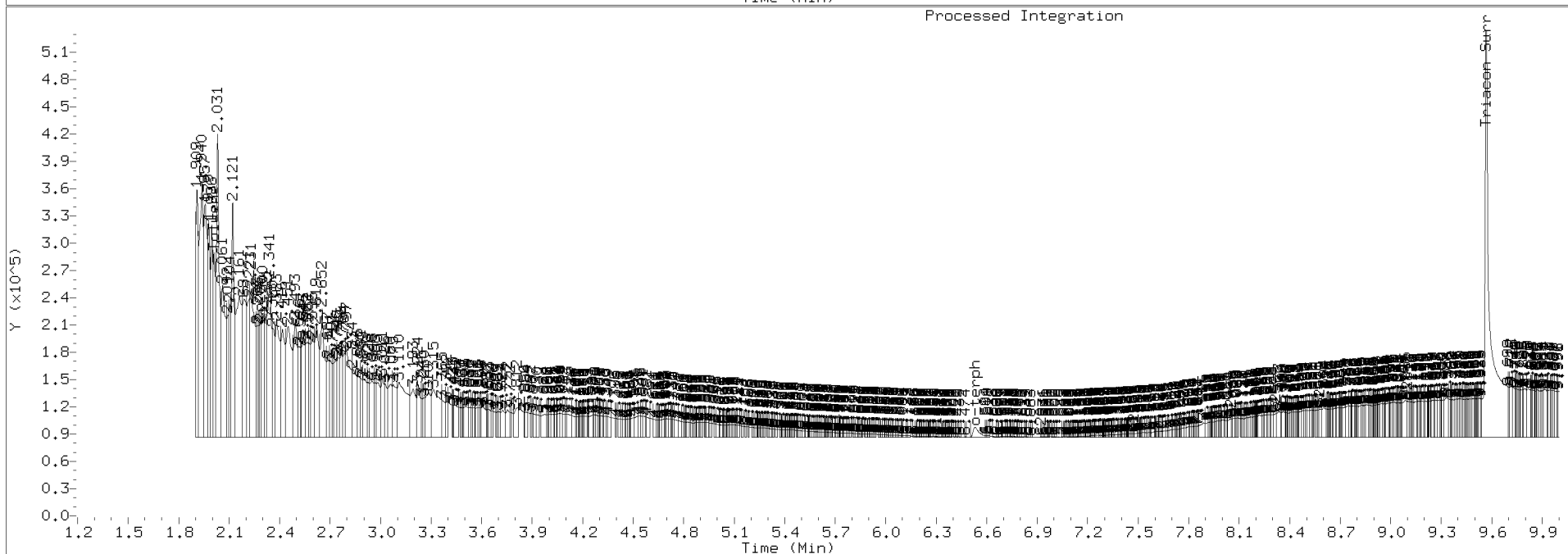
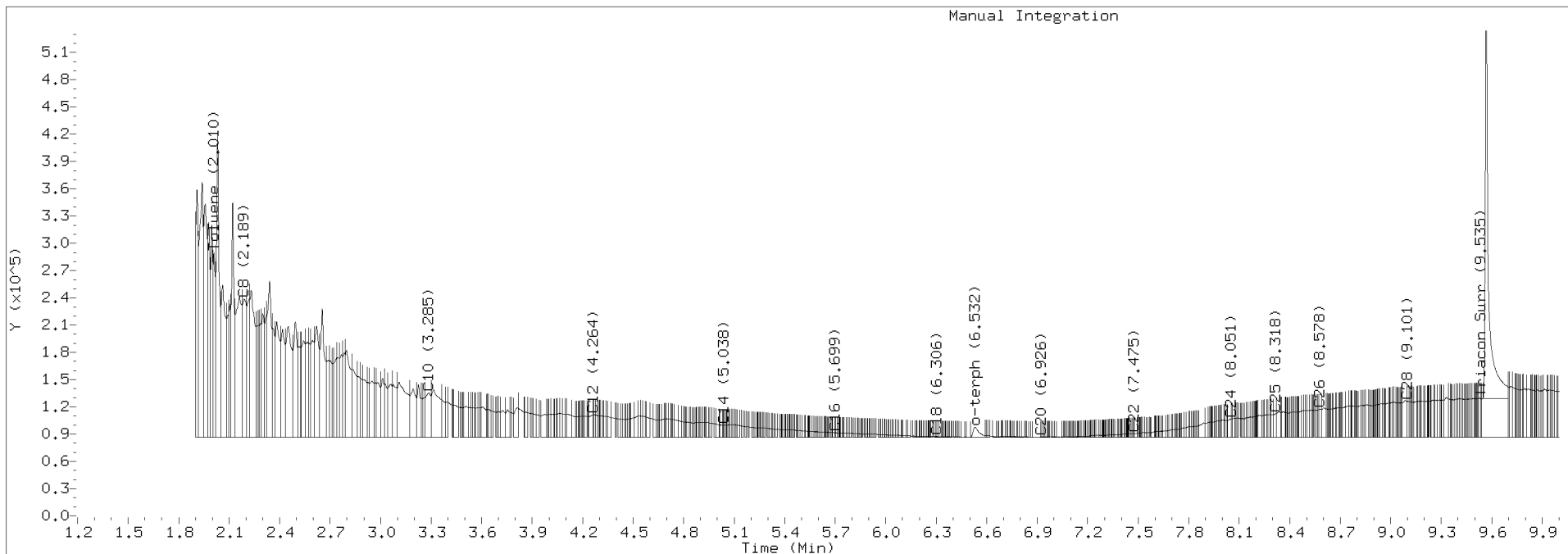
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0807.D Injection: 08-APR-2020 10:14

Lab ID:SEQ-CAL1



Data File: \\target\share\chem2\fid4a,1\20200408_b\42010808.D

Date : 08-APR-2020 10:33

Client ID:

Sample Info: SEQ-CAL2

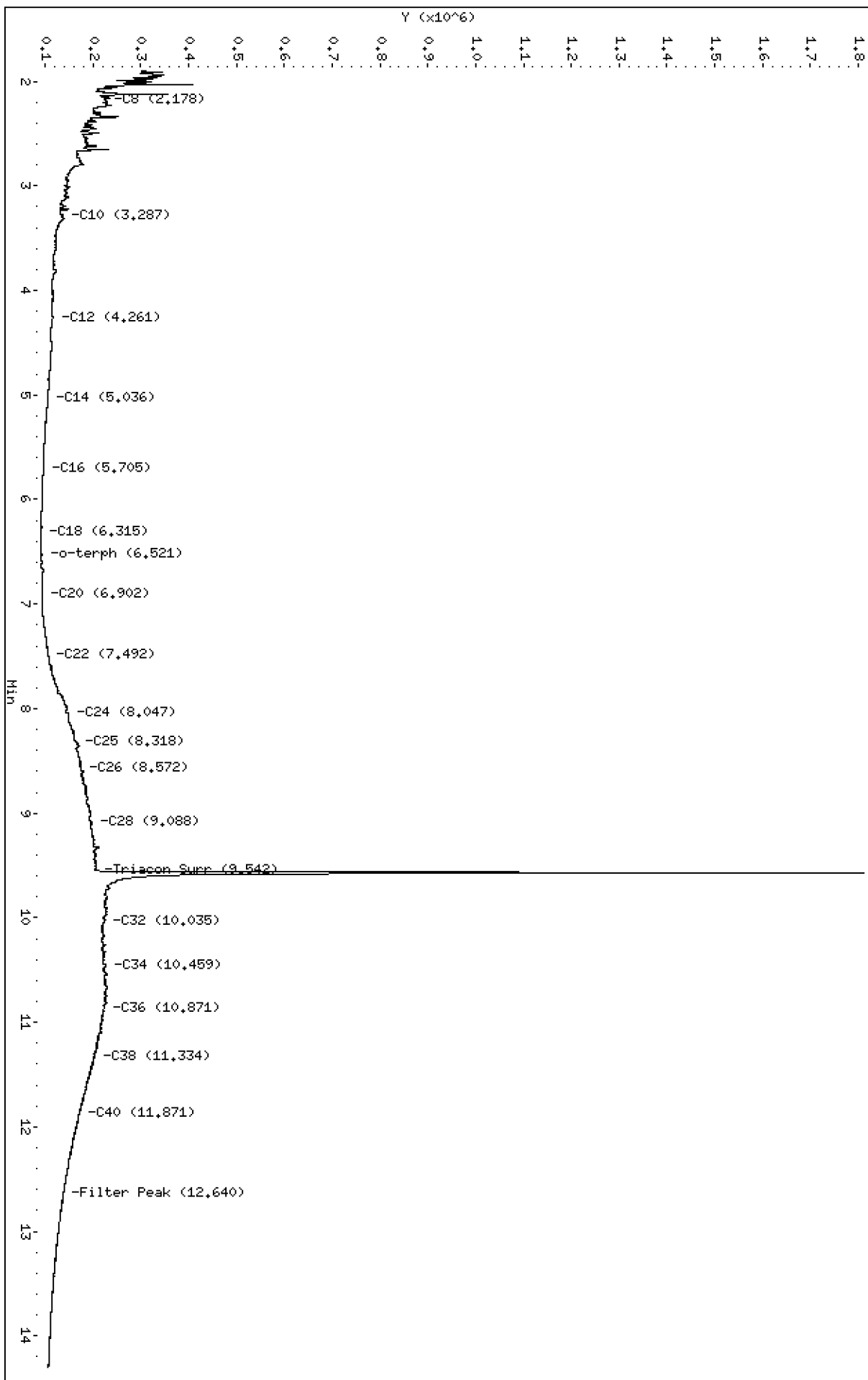
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

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Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0808.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL2
Client ID:
Injection: 08-APR-2020 10:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

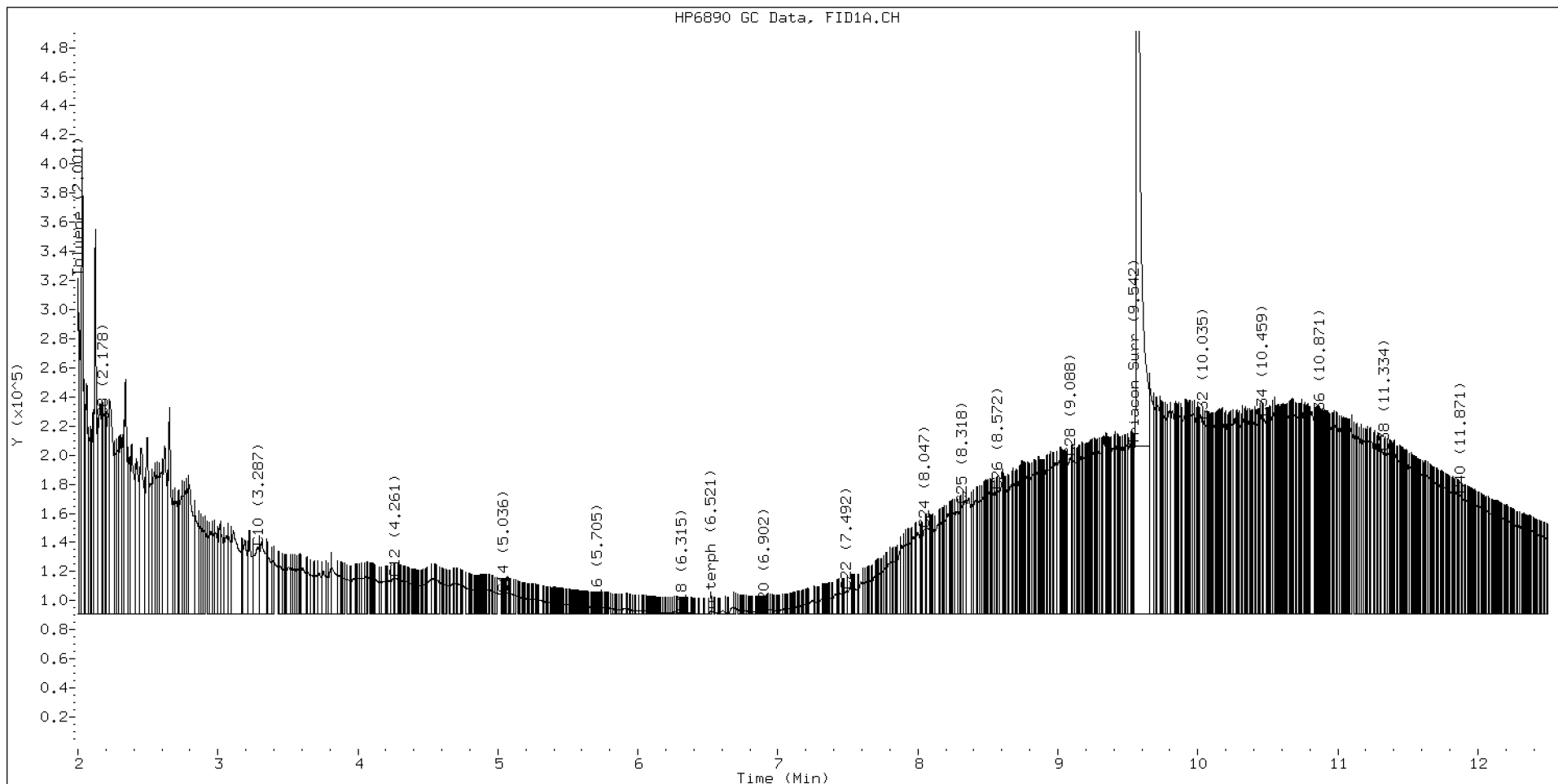
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.178	-0.002	134647	73580	WATPHD	(C12-C24)	2623184	16.5
C10	3.287	-0.002	46105	122146	WATPHM	(C24-C38)	21976708	165.7
C12	4.261	-0.002	24803	7411	AK102	(C10-C25)	4928461	25.2
C14	5.036	-0.002	13595	4064	AK103	(C25-C36)	18150509	247.9
C16	5.705	0.002	4392	1091	OR.DIES	(C10-C28)	9615128	49.1
C18	6.315	0.001	704	324				
C20	6.902	-0.002	1947	564	JET-A	(C10-C18)	2725859	16.8
C22	7.492	0.008	15580	19522				
C24	8.047	0.001	58155	84697				
C25	8.318	-0.001	74518	58671				
C26	8.572	-0.012	84650	75814				
C28	9.088	-0.006	107472	173683				
C32	10.035	0.006	132361	33044				
C34	10.459	0.002	134858	26944				
Filter Peak	12.640	-0.003	47344	30546	CREOSOT	(C12-C22)	1399069	33.9
C36	10.871	-0.001	131911	72256				
C38	11.334	0.004	111289	44355				
C40	11.871	-0.009	81830	69040				
o-terph	6.521	-0.005	2000	1847				
Triacon Surr	9.571	-0.027	1605783	1635426	NAS DIES	(C10-C24)	4280523	21.9

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	1847	0.0
Triacontane	1635426	9.2 M

M Indicates the peak was manually integrated

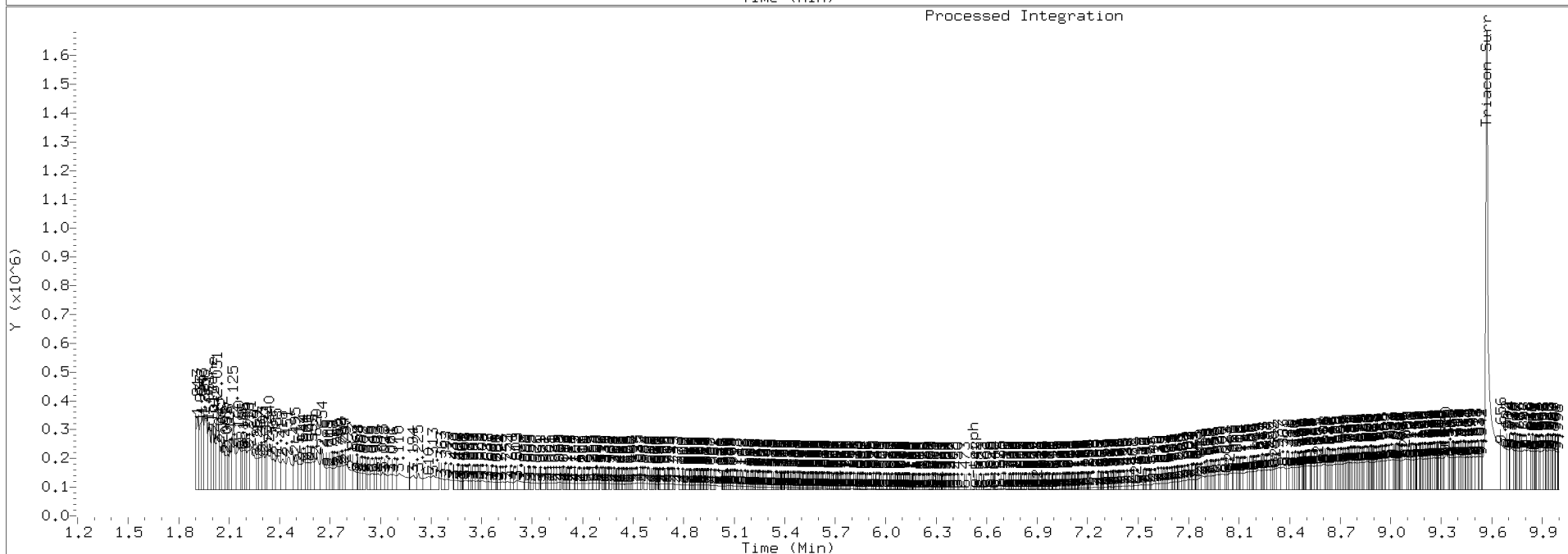
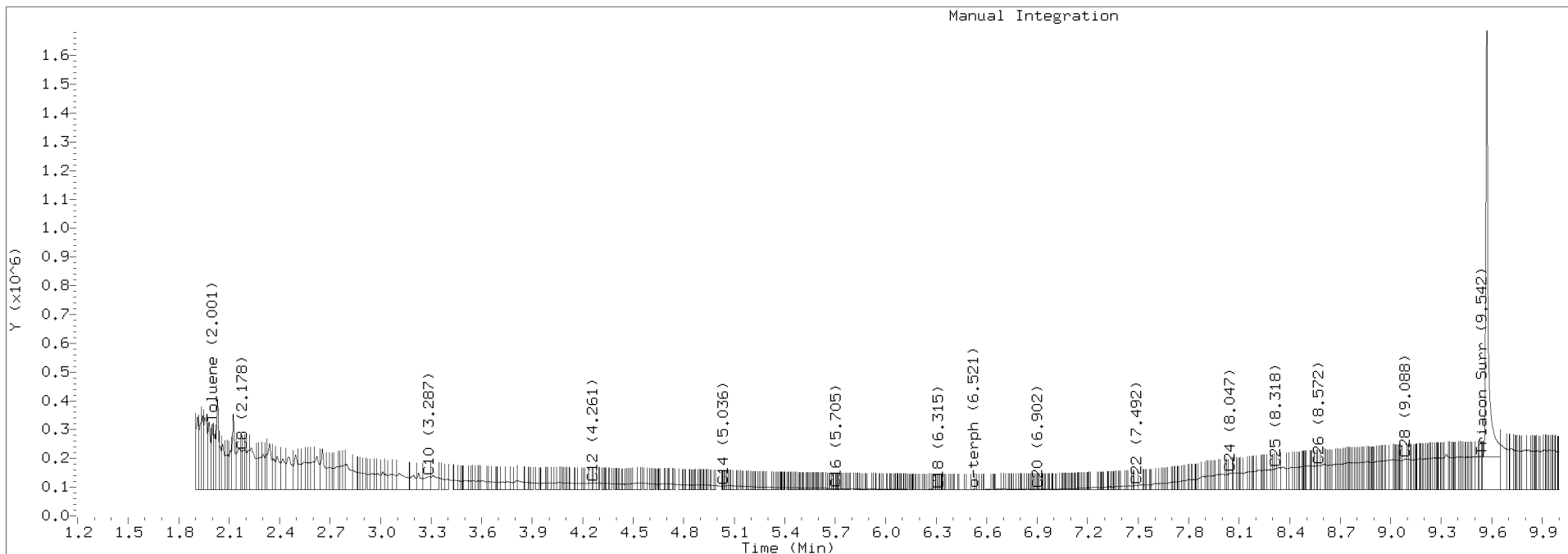
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0808.D Injection: 08-APR-2020 10:33

Lab ID:SEQ-CAL2



Data File: \\target\share\chem2\fid4a,1\20200408_b\420D0809.D

Date: 08-APR-2020 10:53

Client ID:

Sample Info: SEQ-CAL3

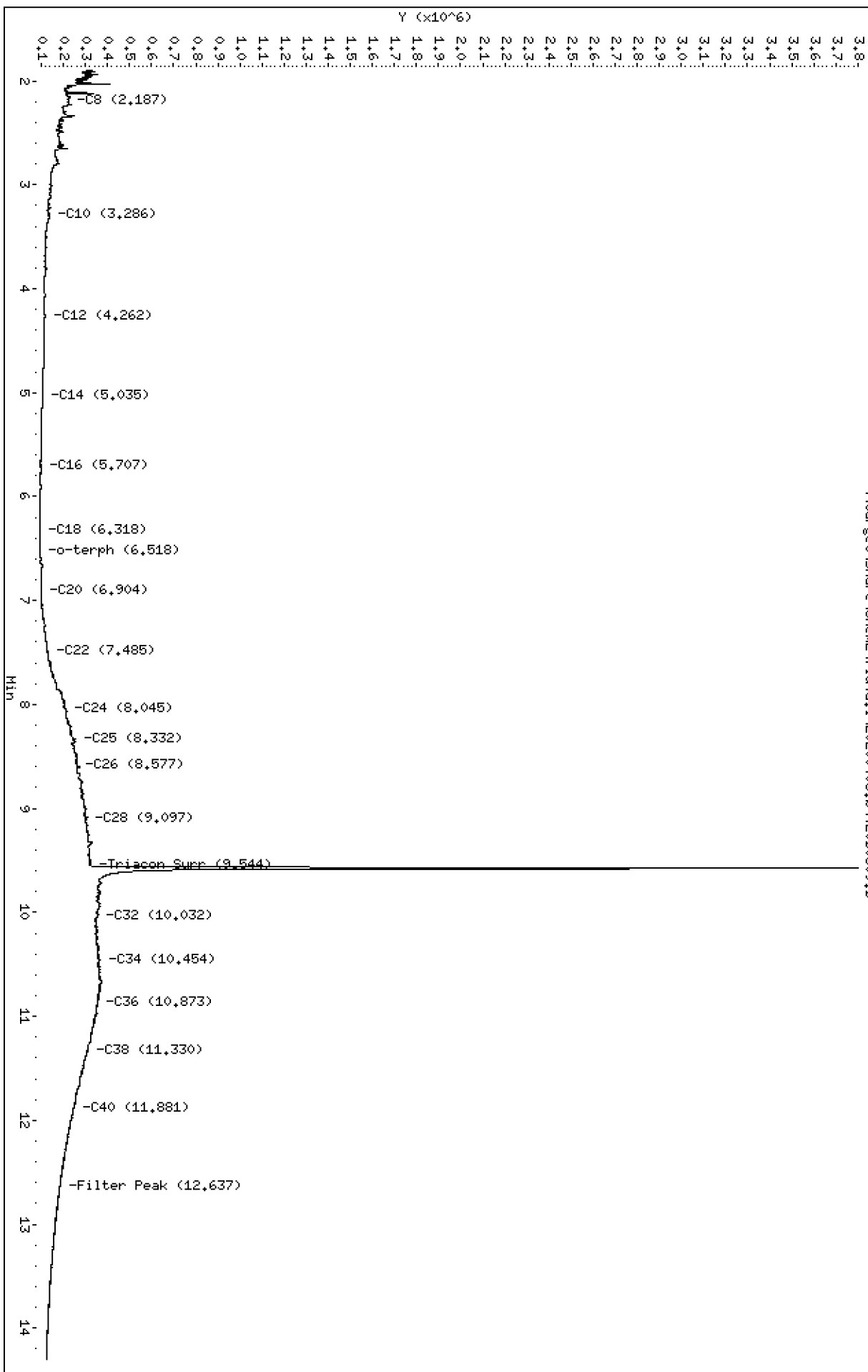
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408_b\420D0809.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0809.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL3
Client ID:
Injection: 08-APR-2020 10:53
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

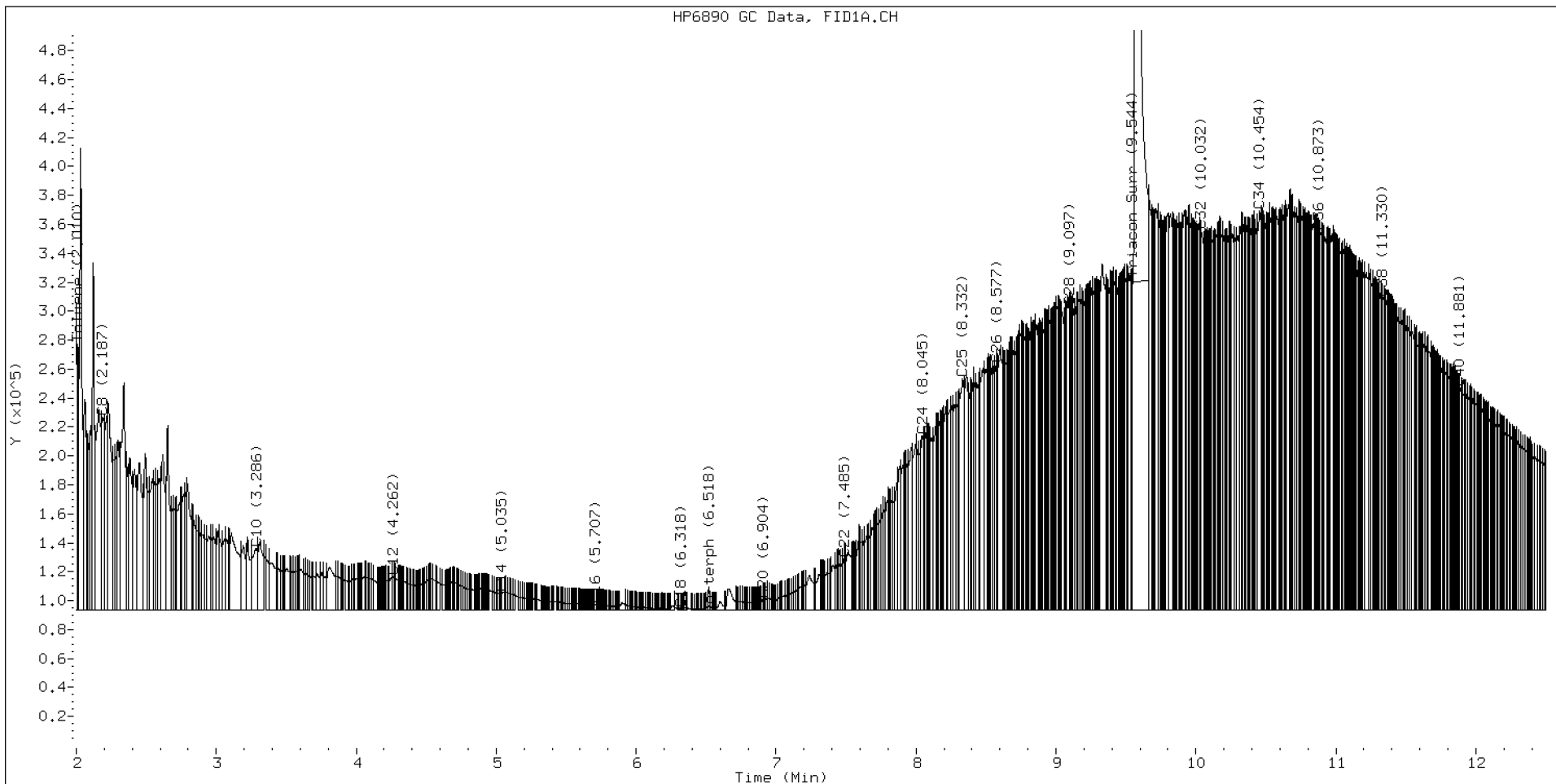
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.187	0.008	132882	207304	WATPHD	(C12-C24)	4342009	27.3
C10	3.286	-0.003	42399	113652	WATPHM	(C24-C38)	43844245	330.6
C12	4.262	-0.001	22449	12283	AK102	(C10-C25)	7087402	36.3
C14	5.035	-0.002	11190	3340	AK103	(C25-C36)	36073165	492.8
C16	5.707	0.004	3267	2527	OR.DIES	(C10-C28)	16362271	83.5
C18	6.318	0.004	681	133				
C20	6.904	0.000	6652	3976	JET-A	(C10-C18)	2369101	14.6
C22	7.485	0.002	34909	34936				
C24	8.045	-0.001	120276	161719				
C25	8.332	0.013	159437	386100				
C26	8.577	-0.007	169330	100501				
C28	9.097	0.003	209523	62632				
C32	10.032	0.003	261757	91098				
C34	10.454	-0.003	275210	390226				
Filter Peak	12.637	-0.006	90381	62764	CREOSOT	(C12-C22)	1706405	41.4
C36	10.873	0.002	261055	143153				
C38	11.330	0.000	214958	53639				
C40	11.881	0.001	152861	45740				
o-terph	6.518	-0.007	2459	1835				
Triacon Surr	9.577	-0.022	3480038	3443389	NAS DIES	(C10-C24)	5836700	29.9

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	1835	0.0
Triacontane	3443389	19.3 M

M Indicates the peak was manually integrated

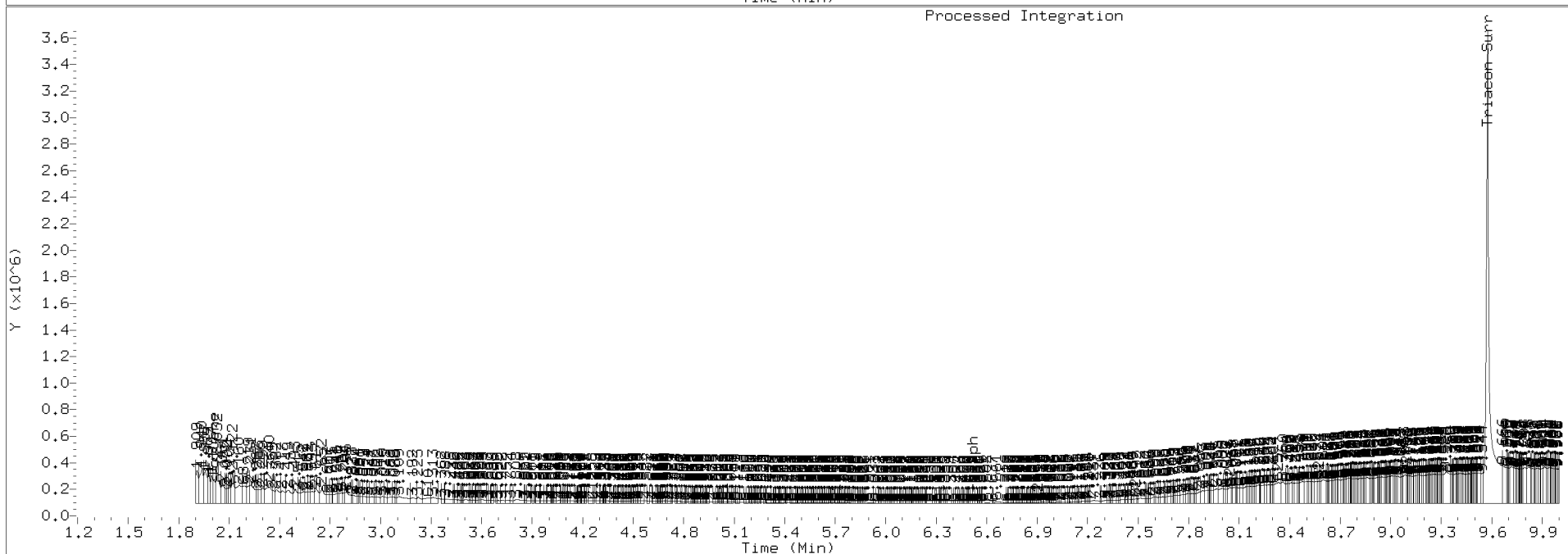
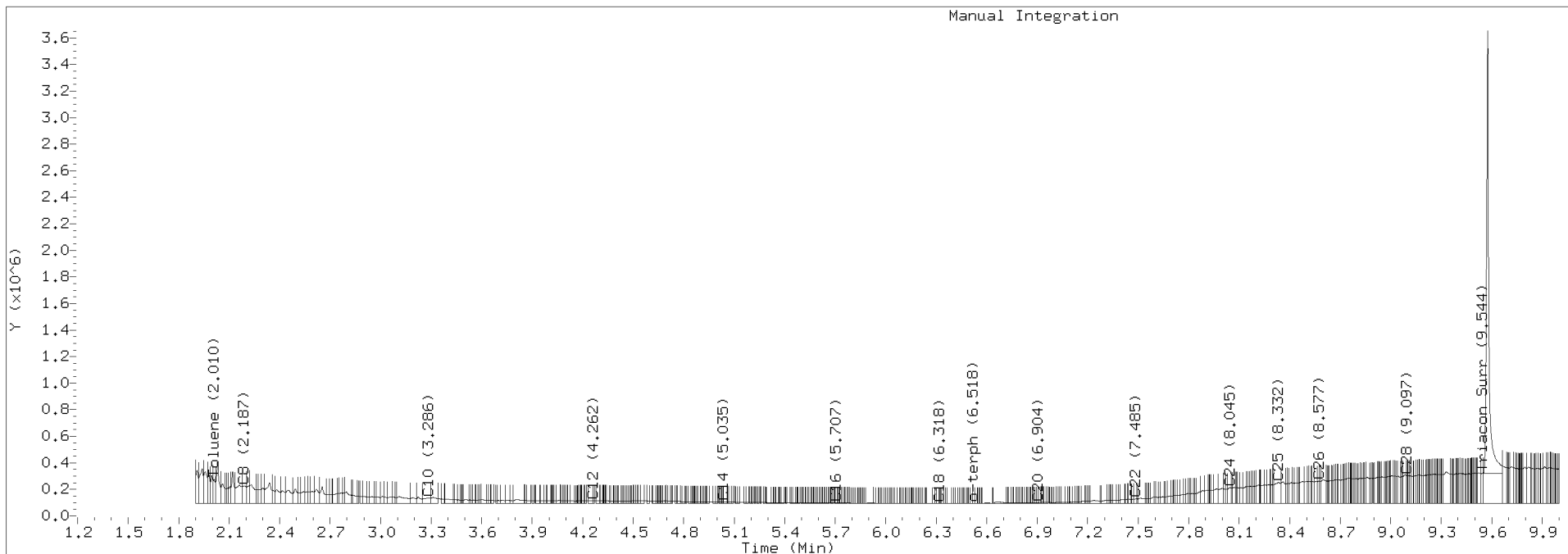
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0809.D Injection: 08-APR-2020 10:53

Lab ID:SEQ-CAL3



Data File: \\target\share\chem2\fid4a,1\20200408_b\42010810.D
Date: 08-APR-2020 11:12

Client ID:
Sample Info: SEQ-CAL4

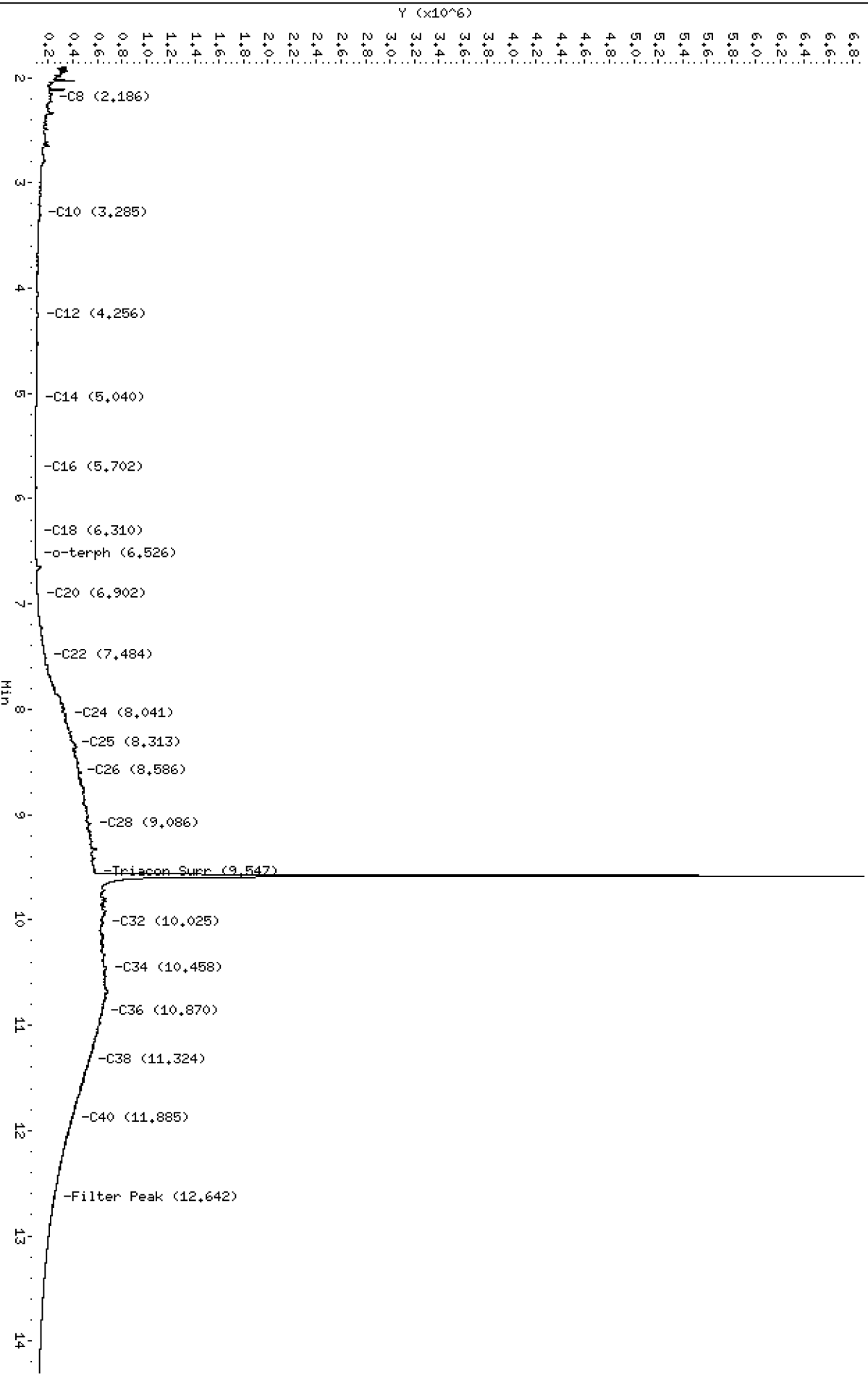
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408_b\42010810.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0810.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL4
Client ID:
Injection: 08-APR-2020 11:12
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

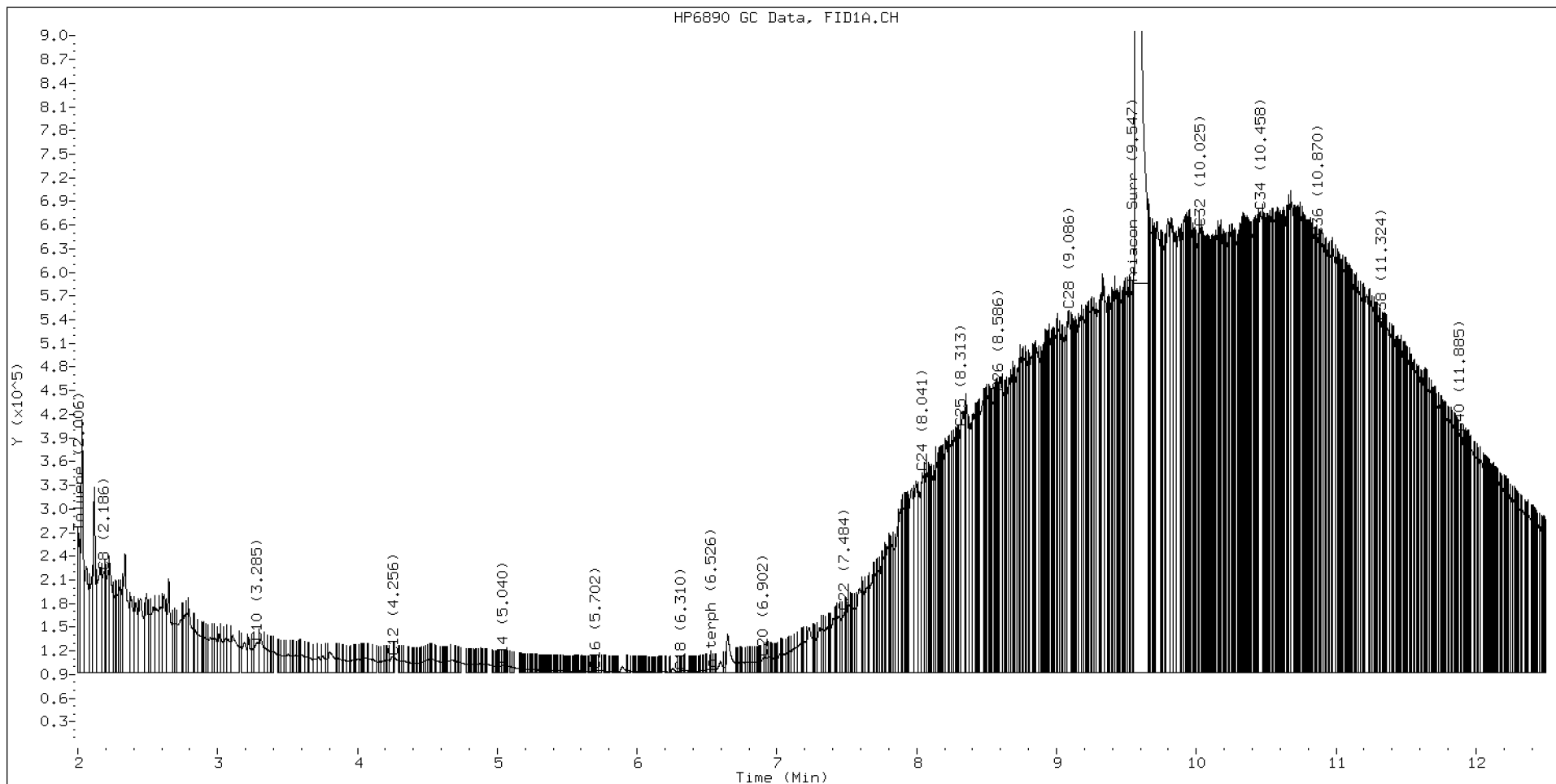
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	128234	148626	WATPHD	(C12-C24)	7988871	50.1
C10	3.285	-0.004	38172	74427	WATPHM	(C24-C38)	91762086	691.9
C12	4.256	-0.006	19290	11388	AK102	(C10-C25)	11765512	60.2
C14	5.040	0.003	8973	3968	AK103	(C25-C36)	75818758	1035.7
C16	5.702	-0.001	2111	1115	OR.DIES	(C10-C28)	31382092	160.1
C18	6.310	-0.004	1425	541				
C20	6.902	-0.002	17908	16066	JET-A	(C10-C18)	1797246	11.1
C22	7.484	0.001	76596	83679				
C24	8.041	-0.004	252638	326752				
C25	8.313	-0.005	310545	242222				
C26	8.586	0.003	355023	176377				
C28	9.086	-0.007	458742	774018				
C32	10.025	-0.004	563176	363288				
C34	10.458	0.001	584411	838839				
Filter Peak	12.642	-0.001	154787	92080	CREOSOT	(C12-C22)	2517795	61.1
C36	10.870	-0.001	551148	355915				
C38	11.324	-0.006	444543	374976				
C40	11.885	0.005	302889	255171				
o-terph	6.526	0.001	3457	1149				
Triacon Surr	9.585	-0.014	6299099	7009097	NAS DIES	(C10-C24)	9175138	47.0

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	1149	0.0
Triacontane	7009097	39.4 M

M Indicates the peak was manually integrated

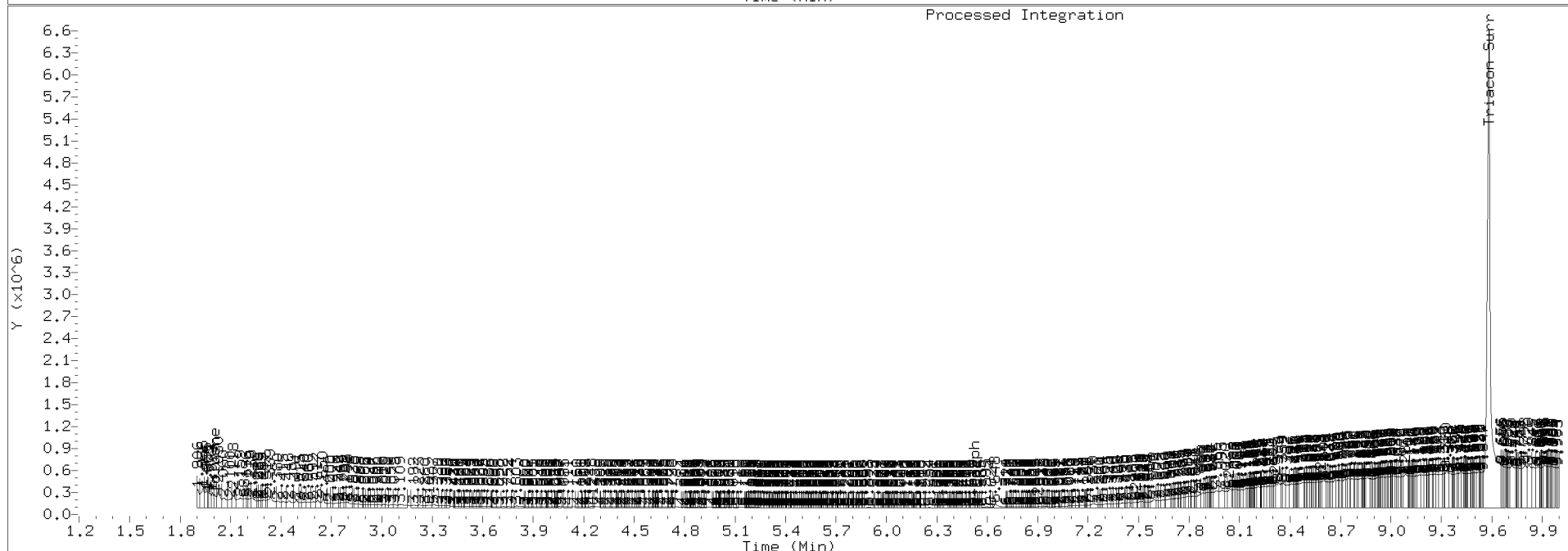
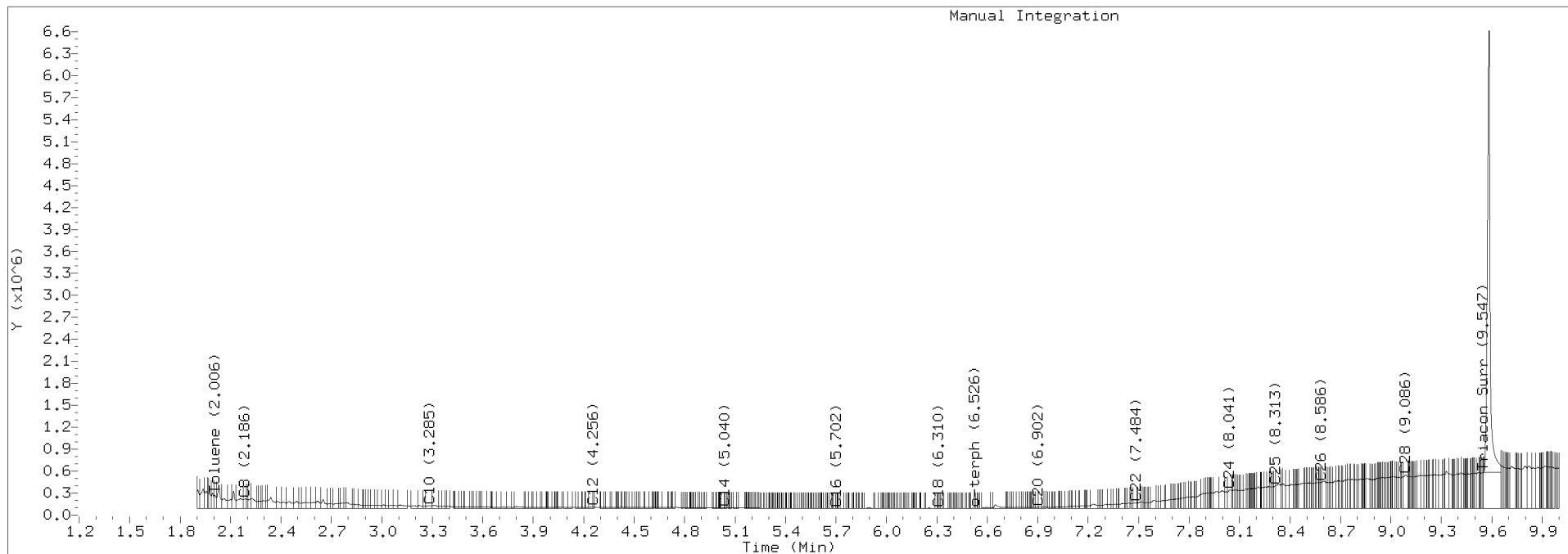
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0810.D Injection: 08-APR-2020 11:12

Lab ID:SEQ-CAL4



Data File: \\target\share\chem2\fid4a,1\20200408.b\420D0811.D

Date : 08-APR-2020 11:32

Client ID:

Sample Info: SEQ-CALS

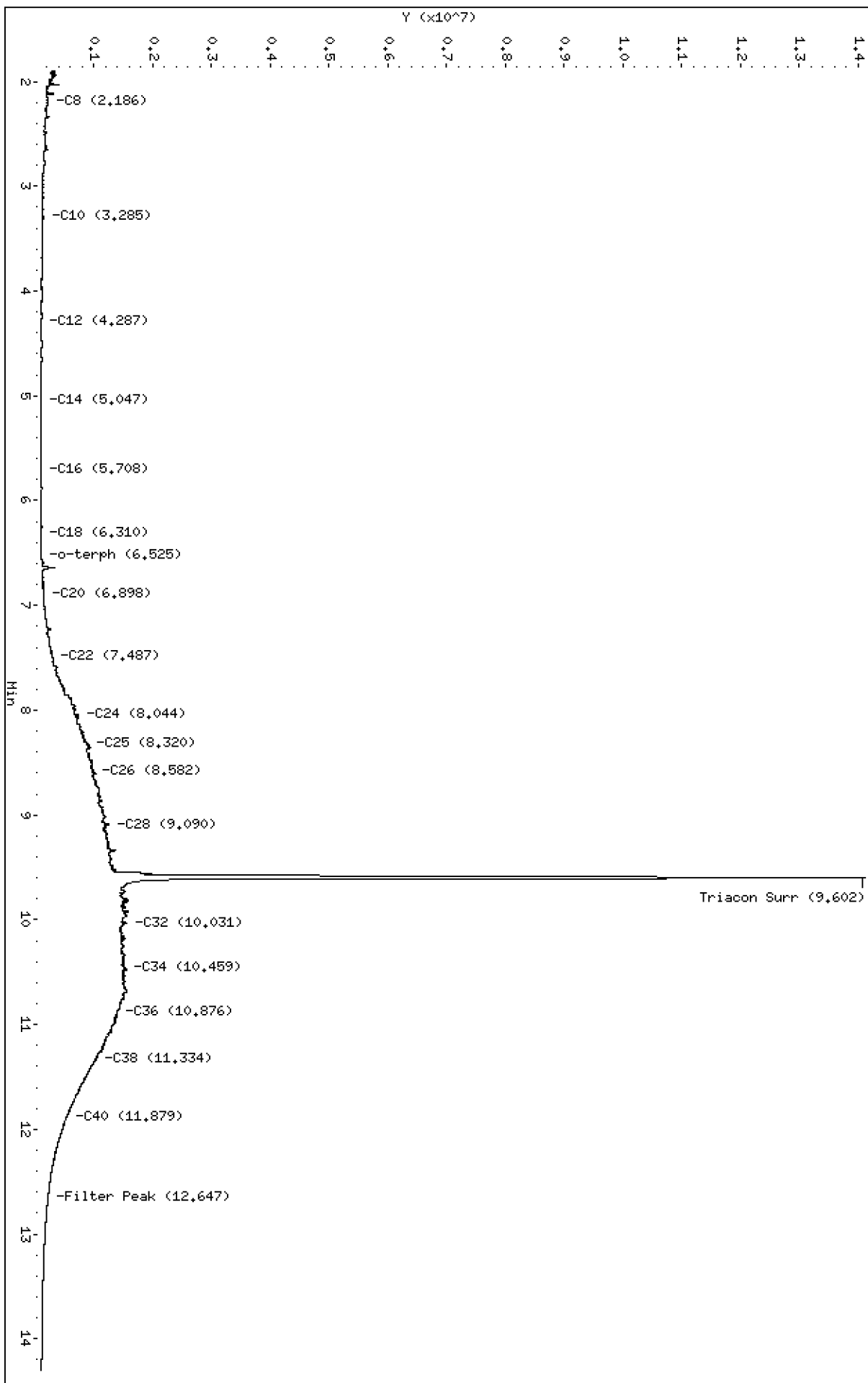
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408.b\420D0811.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0811.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL5
Client ID:
Injection: 08-APR-2020 11:32
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

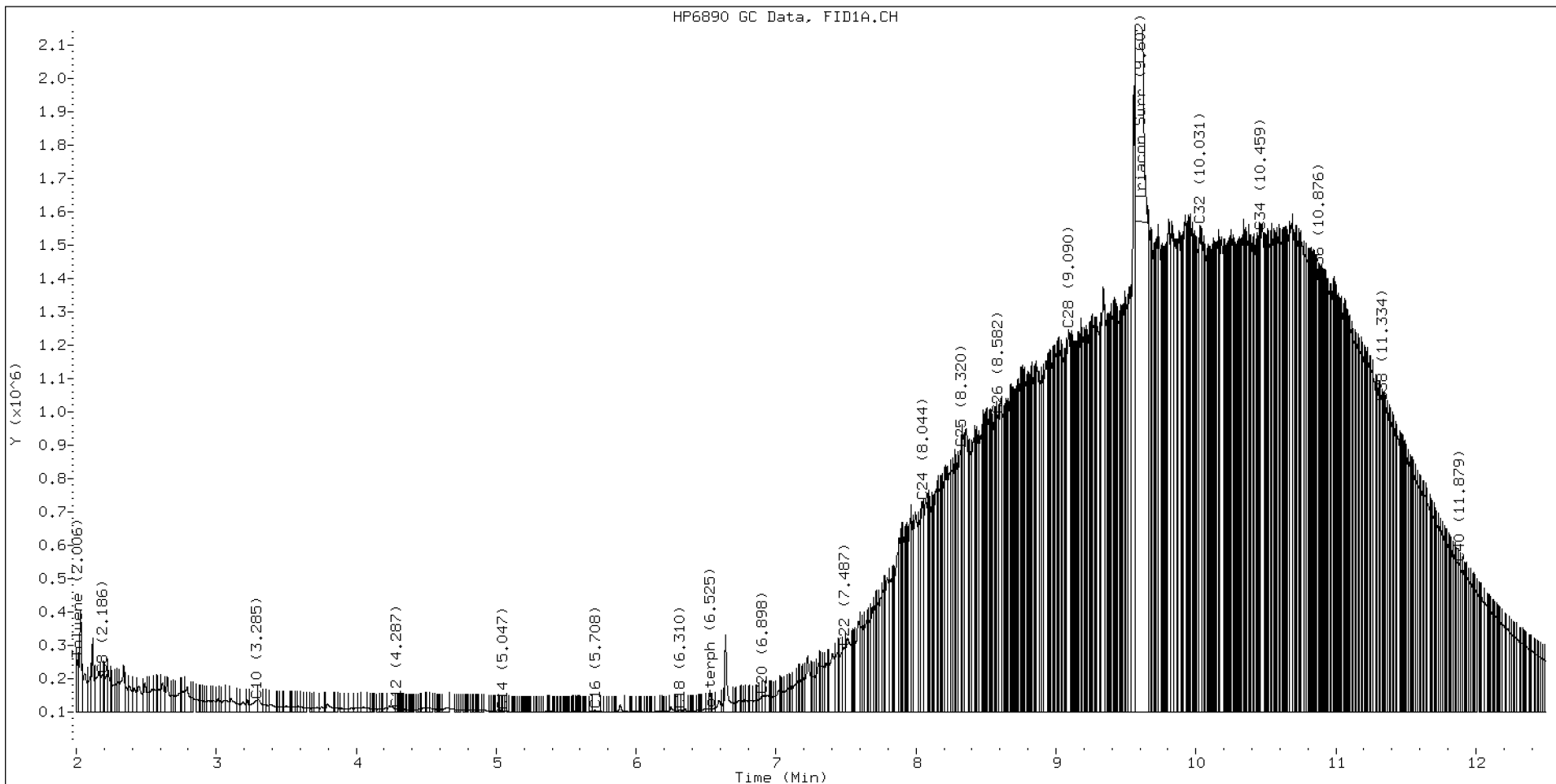
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	113560	125040	WATPHD	(C12-C24)	19771771	124.1
C10	3.285	-0.004	36541	95337	WATPHM	(C24-C38)	227849225	1717.9
C12	4.287	0.024	10394	7178	AK102	(C10-C25)	27372288	140.0
C14	5.047	0.009	4777	3830	AK103	(C25-C36)	191958289	2622.1
C16	5.708	0.004	6173	14774	OR.DIES	(C10-C28)	76383536	389.7
C18	6.310	-0.004	7574	8190				
C20	6.898	-0.006	50377	68943	JET-A	(C10-C18)	1465725	9.0
C22	7.487	0.004	195618	285006				
C24	8.044	-0.002	633495	967446				
C25	8.320	0.002	789714	921627				
C26	8.582	-0.001	892143	574635				
C28	9.090	-0.003	1146036	1667580				
C32	10.031	0.002	1460342	1849029				
C34	10.459	0.001	1442041	715490				
Filter Peak	12.647	0.004	121440	172075	CREOSOT	(C12-C22)	5678297	137.7
C36	10.876	0.004	1305970	520950				
C38	11.334	0.004	930225	554909				
C40	11.879	-0.001	446132	330870				
o-terph	6.525	-0.001	10861	10718				
Triacon Surr	9.602	0.004	12555669	16658090	NAS DIES	(C10-C24)	20733131	106.2

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	10718	0.1
Triacontane	16658090	93.6 M

M Indicates the peak was manually integrated

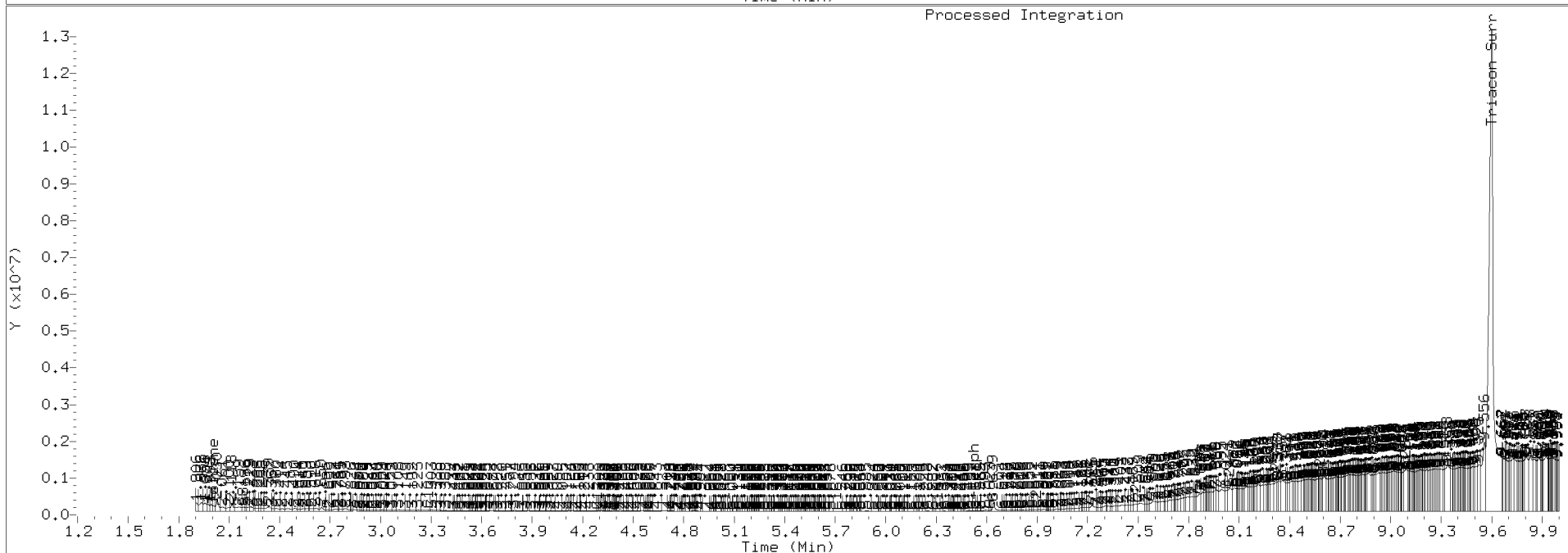
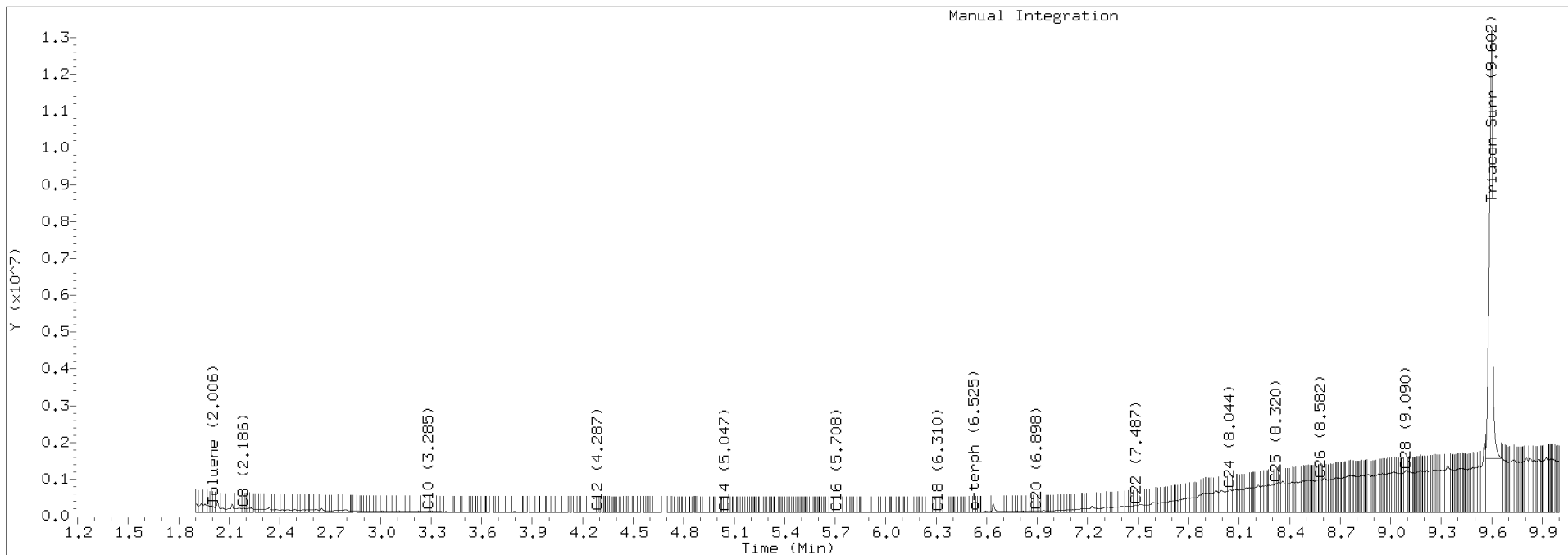
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0811.D Injection: 08-APR-2020 11:32

Lab ID:SEQ-CAL5



Data File: \\target\share\chem2\fid4a,1\20200408_b\42010812.D

Date : 08-APR-2020 11:51

Client ID:

Sample Info: SED-CAL6

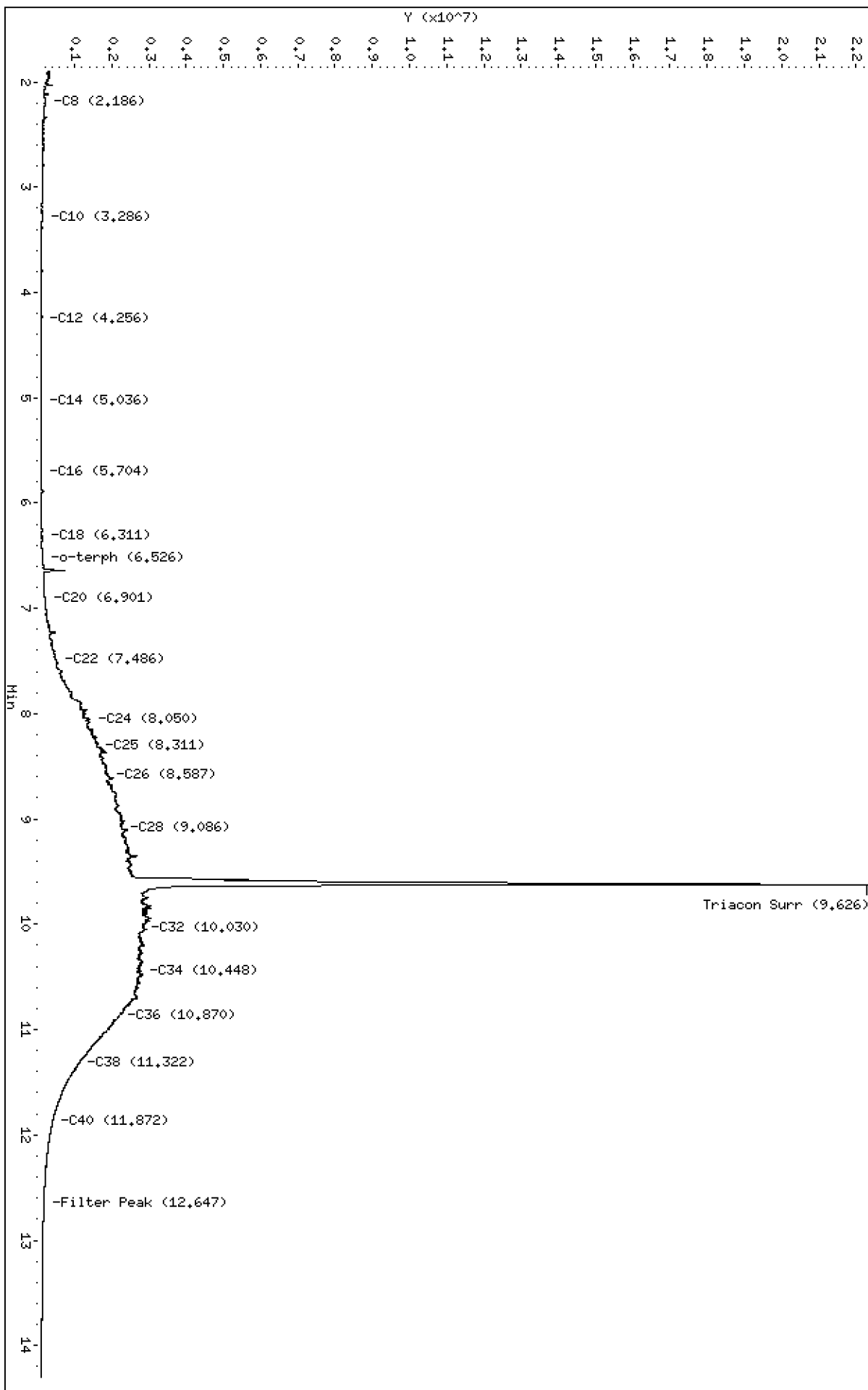
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408_b\42010812.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200408.b/420D0812.D
Method: 20200408.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 04/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL6
Client ID:
Injection: 08-APR-2020 11:51
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

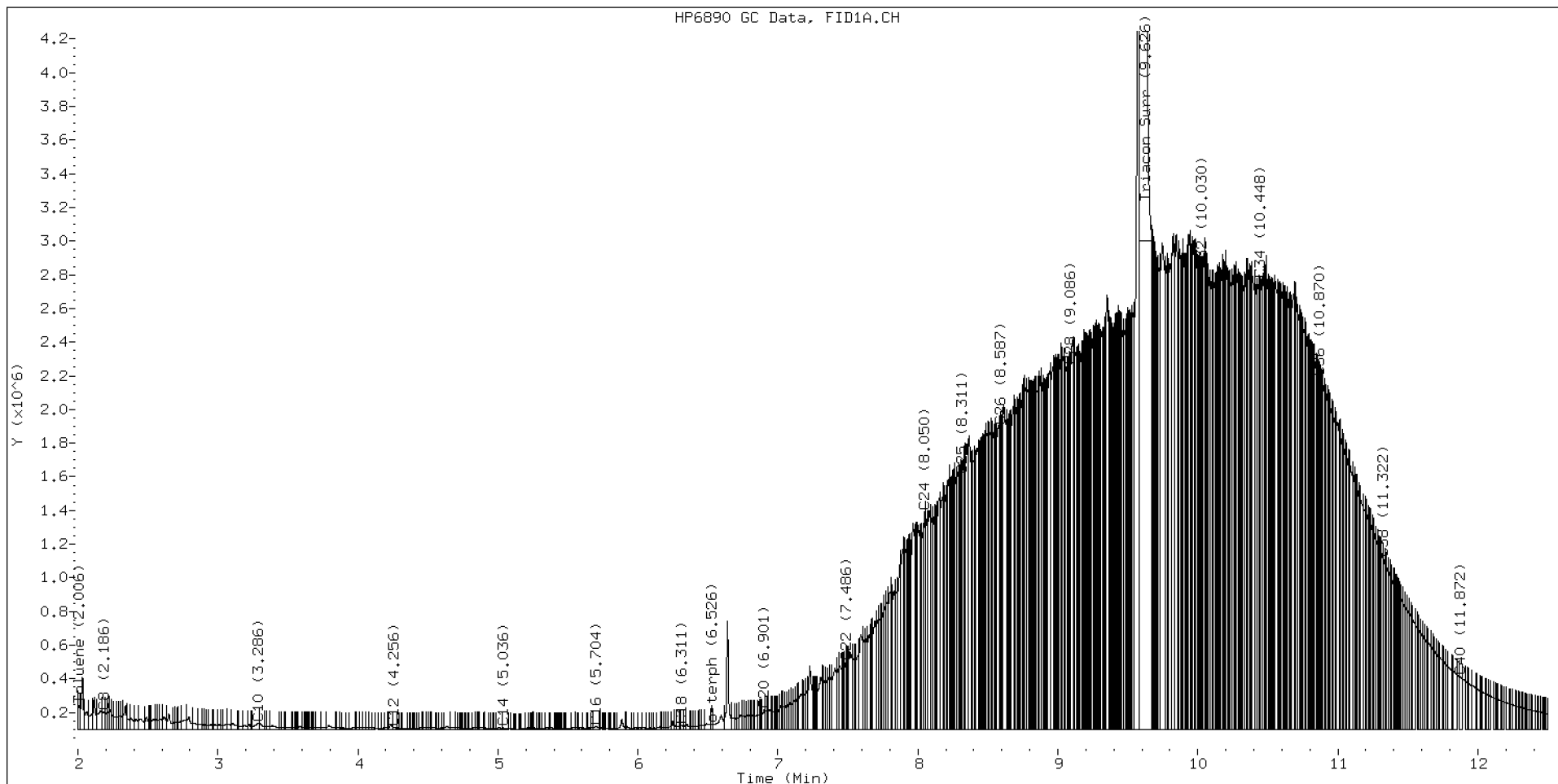
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	104064	109223	WATPHD	(C12-C24)	40416857	253.7
C10	3.286	-0.003	36956	80325	WATPHM	(C24-C38)	424850865	3203.2
C12	4.256	-0.007	12507	16346	AK102	(C10-C25)	54410917	278.3
C14	5.036	-0.001	8003	15931	AK103	(C25-C36)	374151503	5110.9
C16	5.704	0.001	16810	29811	OR.DIES	(C10-C28)	152172505	776.4
C18	6.311	-0.003	24372	26022				
C20	6.901	-0.003	112613	157357	JET-A	(C10-C18)	1722106	10.6
C22	7.486	0.002	399638	286806				
C24	8.050	0.004	1290743	1158755				
C25	8.311	-0.007	1510553	527958				
C26	8.587	0.004	1796919	714430				
C28	9.086	-0.007	2157837	862033				
C32	10.030	0.001	2725510	951638				
C34	10.448	-0.009	2673996	2899255				
Filter Peak	12.647	0.004	73309	79546	CREOSOT	(C12-C22)	11787364	285.8
C36	10.870	-0.002	2091703	1355589				
C38	11.322	-0.008	1014606	947975				
C40	11.872	-0.008	311238	395324				
o-terph	6.526	0.001	31009	30512				
Triacon Surr	9.626	0.028	19358318	32512150	NAS DIES	(C10-C24)	41151308	210.9

Range Times: NW Diesel(4.262 - 8.046) AK102(3.29 - 8.32) Jet A(3.29 - 6.31)
NW M.Oil(8.05 - 11.33) AK103(8.32 - 10.87) OR Diesel(3.29 - 9.09)

Surrogate	Area	Amount
o-Terphenyl	30512	0.1
Triacontane	32512150	182.7 M

M Indicates the peak was manually integrated

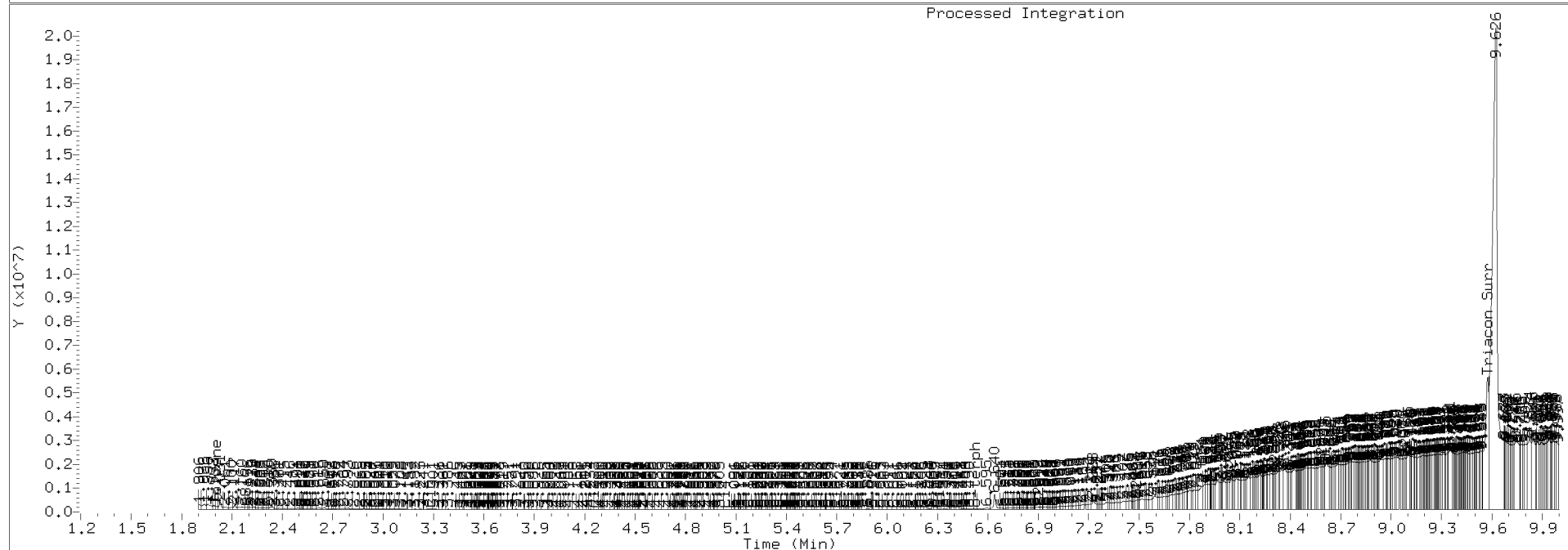
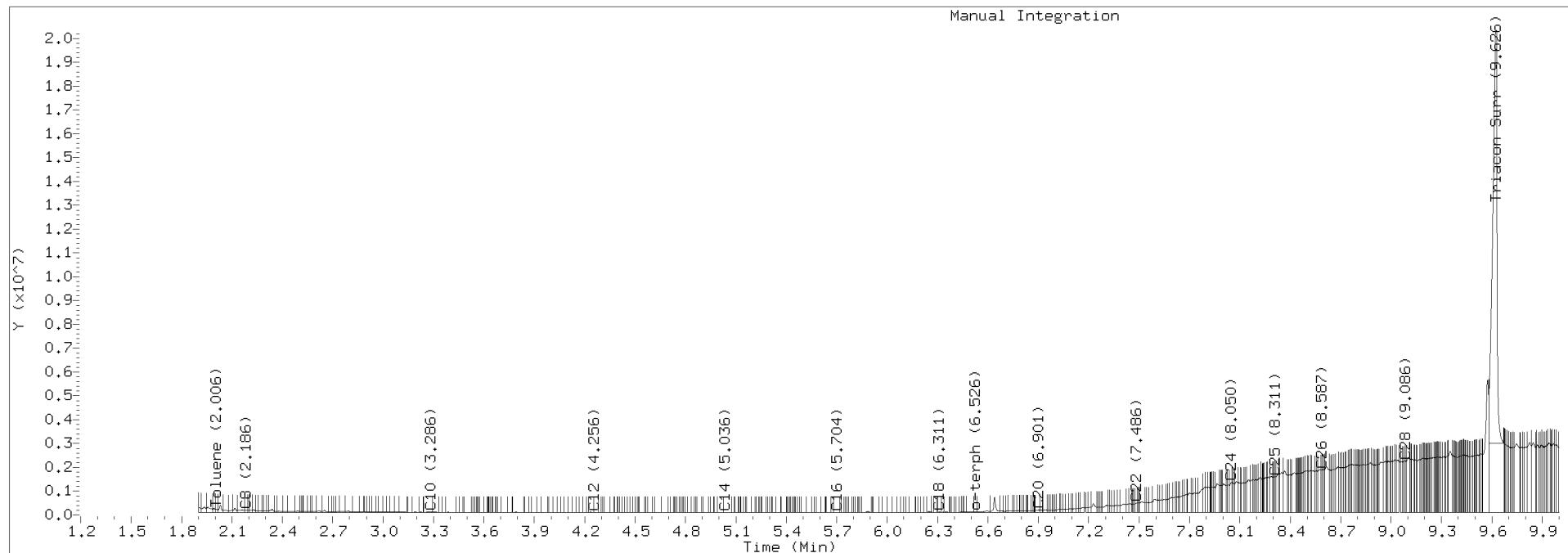
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200408.b/420D0812.D Injection: 08-APR-2020 11:51

Lab ID:SEQ-CAL6





ANALYSIS SEQUENCE

SIE0162

Instrument: FID4
Calibration ID: DA00022

Printed: 5/20/2020 8:39:25AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIE0162-IBL1	QC		1		H010802			
SIE0162-IBL2	QC		2		I000651			
SIE0162-ICV1	QC		3		I002687			
SIE0162-ICV2	QC		4		H010706			
BIE0305-BLK1	QC		5					
BIE0305-BS1	QC		6					
BIE0305-BSD1	QC		7					
20E0185-01	PH NW (Extractables) low lev	A 02	8				The Boeing Company [Auburn]	
SIE0162-CCV1	QC		9		I002687			
SIE0162-CCV2	QC		10		H010706			
SIE0162-CAL1	QC		11		H011231			
BIE0254-BLK1	QC		12					
BIE0254-BS1	QC		13					
BIE0254-BSD1	QC		14					
20E0096-02	PH NW (Extractables) low lev	A 01	15				The Boeing Company	
20E0096-04	PH NW (Extractables) low lev	A 01	16				The Boeing Company	
20E0096-06	PH NW (Extractables) low lev	A 01	17				The Boeing Company	
20E0096-08	PH NW (Extractables) low lev	A 01	18				The Boeing Company	
20E0096-10	PH NW (Extractables) low lev	A 01	19				The Boeing Company	
20E0096-12	PH NW (Extractables) low lev	A 01	20				The Boeing Company	
20E0096-14	PH NW (Extractables) low lev	A 01	21				The Boeing Company	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SIE0162

Instrument: FID4
Calibration ID: DA00022

Printed: 5/20/2020 8:39:25AM

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BIE0254-MS1	QC		23					
BIE0254-MSD1	QC		24					
SIE0162-CCV3	QC		25		I002687			
SIE0162-CCV4	QC		26		H010706			
SIE0162-CCV5	QC		27		H011231			
20E0096-18	PH NW (Extractables) low lev	A 01	28				The Boeing Company	
20E0096-20	PH NW (Extractables) low lev	A 01	29				The Boeing Company	
20E0096-22	PH NW (Extractables) low lev	A 01	30				The Boeing Company	
BIE0248-BLK1	QC		31					
BIE0248-BS1	QC		32					
BIE0248-BSD1	QC		33					
20E0096-01	PH NW (Extractables) low lev	A 01	34				The Boeing Company	
20E0096-03	PH NW (Extractables) low lev	A 01	35				The Boeing Company	
20E0096-05	PH NW (Extractables) low lev	A 01	36				The Boeing Company	
20E0096-07	PH NW (Extractables) low lev	A 01	37				The Boeing Company	
20E0096-09	PH NW (Extractables) low lev	A 01	38				The Boeing Company	
SIE0162-CCV6	QC		39		I002687			
SIE0162-CCV7	QC		40		H010706			
SIE0162-CCV8	QC		41		H011231			
20E0096-11	PH NW (Extractables) low lev	A 01	42				The Boeing Company	

Samples Loaded By

Date

Data Processed By

Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

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1	19-MAY-2020	06:44	420E1901.D	1	RINSE	
2	19-MAY-2020	07:03	420E1902.D	1	RINSE	
3	19-MAY-2020	07:23	420E1903.D	1	SIE0162-IBL1	
4	19-MAY-2020	07:42	420E1904.D	1	SIE0162-IBL2	
5	19-MAY-2020	08:02	420E1905.D	1	SIE0162-ICV1	
6	19-MAY-2020	08:21	420E1906.D	1	SIE0162-ICV2	
7	19-MAY-2020	08:41	420E1907.D	1	BIE0305-BLK1	
8	19-MAY-2020	09:00	420E1908.D	1	BIE0305-BS1	
9	19-MAY-2020	09:20	420E1909.D	1	BIE0305-BSD1	
10	19-MAY-2020	09:39	420E1910.D	1	20E0185-01	
11	19-MAY-2020	09:59	420E1911.D	1	SIE0162-CCV1	
12	19-MAY-2020	10:19	420E1912.D	1	SIE0162-CCV2	
13	19-MAY-2020	11:05	420E1913.D	1	SIE0162-CAL1	
14	19-MAY-2020	11:24	420E1914.D	1	BIE0254-BLK1	
15	19-MAY-2020	11:44	420E1915.D	1	BIE0254-BS1	
16	19-MAY-2020	12:03	420E1916.D	1	BIE0254-BSD1	
17	19-MAY-2020	12:23	420E1917.D	1	20E0096-02	
18	19-MAY-2020	12:43	420E1918.D	1	20E0096-04	
19	19-MAY-2020	13:02	420E1919.D	1	20E0096-06	
20	19-MAY-2020	13:22	420E1920.D	1	20E0096-08	
21	19-MAY-2020	13:42	420E1921.D	1	20E0096-10	
22	19-MAY-2020	14:01	420E1922.D	1	20E0096-12	
23	19-MAY-2020	14:21	420E1923.D	1	20E0096-14	
24	19-MAY-2020	14:41	420E1924.D	1	20E0096-16	
25	19-MAY-2020	15:00	420E1925.D	1	BIE0254-MS1	
26	19-MAY-2020	15:20	420E1926.D	1	BIE0254-MSD1	
27	19-MAY-2020	15:40	420E1927.D	1	SIE0162-CCV3	
28	19-MAY-2020	15:59	420E1928.D	1	SIE0162-CCV4	
29	19-MAY-2020	16:19	420E1929.D	1	SIE0162-CCV5	
30	19-MAY-2020	16:39	420E1930.D	1	20E0096-18	
31	19-MAY-2020	16:58	420E1931.D	1	20E0096-20	
32	19-MAY-2020	17:18	420E1932.D	1	20E0096-22	
33	19-MAY-2020	17:37	420E1933.D	1	BIE0248-BLK1	
34	19-MAY-2020	17:57	420E1934.D	1	BIE0248-BS1	
35	19-MAY-2020	18:16	420E1935.D	1	BIE0248-BSD1	
36	19-MAY-2020	18:36	420E1936.D	1	20E0096-01	
37	19-MAY-2020	18:55	420E1937.D	1	20E0096-03	
38	19-MAY-2020	19:15	420E1938.D	1	20E0096-05	
39	19-MAY-2020	19:34	420E1939.D	1	20E0096-07	
40	19-MAY-2020	19:54	420E1940.D	1	20E0096-09	
41	19-MAY-2020	20:13	420E1941.D	1	SIE0162-CCV6	
42	19-MAY-2020	20:33	420E1942.D	1	SIE0162-CCV7	
43	19-MAY-2020	20:52	420E1943.D	1	SIE0162-CCV8	
44	19-MAY-2020	21:12	420E1944.D	1	20E0096-11	
45	19-MAY-2020	21:31	420E1945.D	1	20E0096-13	
46	19-MAY-2020	21:50	420E1946.D	1	20E0096-15	
47	19-MAY-2020	22:10	420E1947.D	1	BIE0248-MS1	
48	19-MAY-2020	22:29	420E1948.D	1	BIE0248-MSD1	
49	19-MAY-2020	22:49	420E1949.D	1	20E0096-17	
50	20-MAY-2020	23:08	420E1950.D	1	20E0096-19	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	20-MAY-2020	23:28	420E1951.D	1	20E0096-21	
52	20-MAY-2020	23:47	420E1952.D	1	BIE0282-BLK1	
53	20-MAY-2020	00:07	420E1953.D	1	BIE0282-BS1	
54	20-MAY-2020	00:26	420E1954.D	1	BIE0282-BSD1	
55	20-MAY-2020	00:46	420E1955.D	1	20E0151-01	
56	20-MAY-2020	01:05	420E1956.D	1	20E0160-01	
57	20-MAY-2020	01:25	420E1957.D	1	SIE0162-CCV9	
58	20-MAY-2020	01:44	420E1958.D	1	SIE0162-CCVA	
59	20-MAY-2020	02:03	420E1959.D	1	SIE0162-CCVB	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 19-MAY-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0644	420E1901.D	RINSE		1	o-terph,
0703	420E1902.D	RINSE		1	Triacon Surr,
0723	420E1903.D	SIE0162-IBL1		1	NO MANUAL INTEGRATION
0742	420E1904.D	SIE0162-IBL2		1	NO MANUAL INTEGRATION
0802	420E1905.D	SIE0162-ICV1		1	o-terph,
0821	420E1906.D	SIE0162-ICV2		1	Triacon Surr,
0841	420E1907.D	BIE0305-BLK1		1	NO MANUAL INTEGRATION
0900	420E1908.D	BIE0305-BS1		1	o-terph,
0920	420E1909.D	BIE0305-BSD1		1	o-terph,
0939	420E1910.D	20E0185-01		1	NO MANUAL INTEGRATION
0959	420E1911.D	SIE0162-CCV1		1	o-terph,
1019	420E1912.D	SIE0162-CCV2		1	Triacon Surr,
1105	420E1913.D	SIE0162-CAL1		1	NO MANUAL INTEGRATION
1124	420E1914.D	BIE0254-BLK1		1	NO MANUAL INTEGRATION
1144	420E1915.D	BIE0254-BS1		1	o-terph,
1203	420E1916.D	BIE0254-BSD1		1	o-terph,
1223	420E1917.D	20E0096-02		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1243	420E1918.D	20E0096-04	1		NO MANUAL INTEGRATION
1302	420E1919.D	20E0096-06	1		NO MANUAL INTEGRATION
1322	420E1920.D	20E0096-08	1		NO MANUAL INTEGRATION
1342	420E1921.D	20E0096-10	1		NO MANUAL INTEGRATION
1401	420E1922.D	20E0096-12	1		o-terph,
1421	420E1923.D	20E0096-14	1		NO MANUAL INTEGRATION
1441	420E1924.D	20E0096-16	1		NO MANUAL INTEGRATION
1500	420E1925.D	BIE0254-MS1	1		o-terph,
1520	420E1926.D	BIE0254-MSD1	1		o-terph,
1540	420E1927.D	SIE0162-CCV3	1		o-terph,
1559	420E1928.D	SIE0162-CCV4	1		Triacon Surr,
1619	420E1929.D	SIE0162-CCV5	1		NO MANUAL INTEGRATION
1639	420E1930.D	20E0096-18	1		NO MANUAL INTEGRATION
1658	420E1931.D	20E0096-20	1		NO MANUAL INTEGRATION
1718	420E1932.D	20E0096-22	1		NO MANUAL INTEGRATION
1737	420E1933.D	BIE0248-BLK1	1		NO MANUAL INTEGRATION
1757	420E1934.D	BIE0248-BS1	1		o-terph,
1816	420E1935.D	BIE0248-BSD1	1		o-terph,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1836	420E1936.D	20E0096-01	1		NO MANUAL INTEGRATION
1855	420E1937.D	20E0096-03	1		NO MANUAL INTEGRATION
1915	420E1938.D	20E0096-05	1		o-terph,
1934	420E1939.D	20E0096-07	1		NO MANUAL INTEGRATION
1954	420E1940.D	20E0096-09	1		NO MANUAL INTEGRATION
2013	420E1941.D	SIE0162-CCV6	1		o-terph,
2033	420E1942.D	SIE0162-CCV7	1		Triacon Surr,
2052	420E1943.D	SIE0162-CCV8	1		NO MANUAL INTEGRATION
2112	420E1944.D	20E0096-11	1		o-terph,
2131	420E1945.D	20E0096-13	1		NO MANUAL INTEGRATION
2150	420E1946.D	20E0096-15	1		NO MANUAL INTEGRATION
2210	420E1947.D	BIE0248-MS1	1		o-terph,
2229	420E1948.D	BIE0248-MSD1	1		o-terph,
2249	420E1949.D	20E0096-17	1		NO MANUAL INTEGRATION
2308	420E1950.D	20E0096-19	1		o-terph,
2328	420E1951.D	20E0096-21	1		NO MANUAL INTEGRATION
2347	420E1952.D	BIE0282-BLK1	1		NO MANUAL INTEGRATION
0007	420E1953.D	BIE0282-BS1	1		o-terph,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200519.b

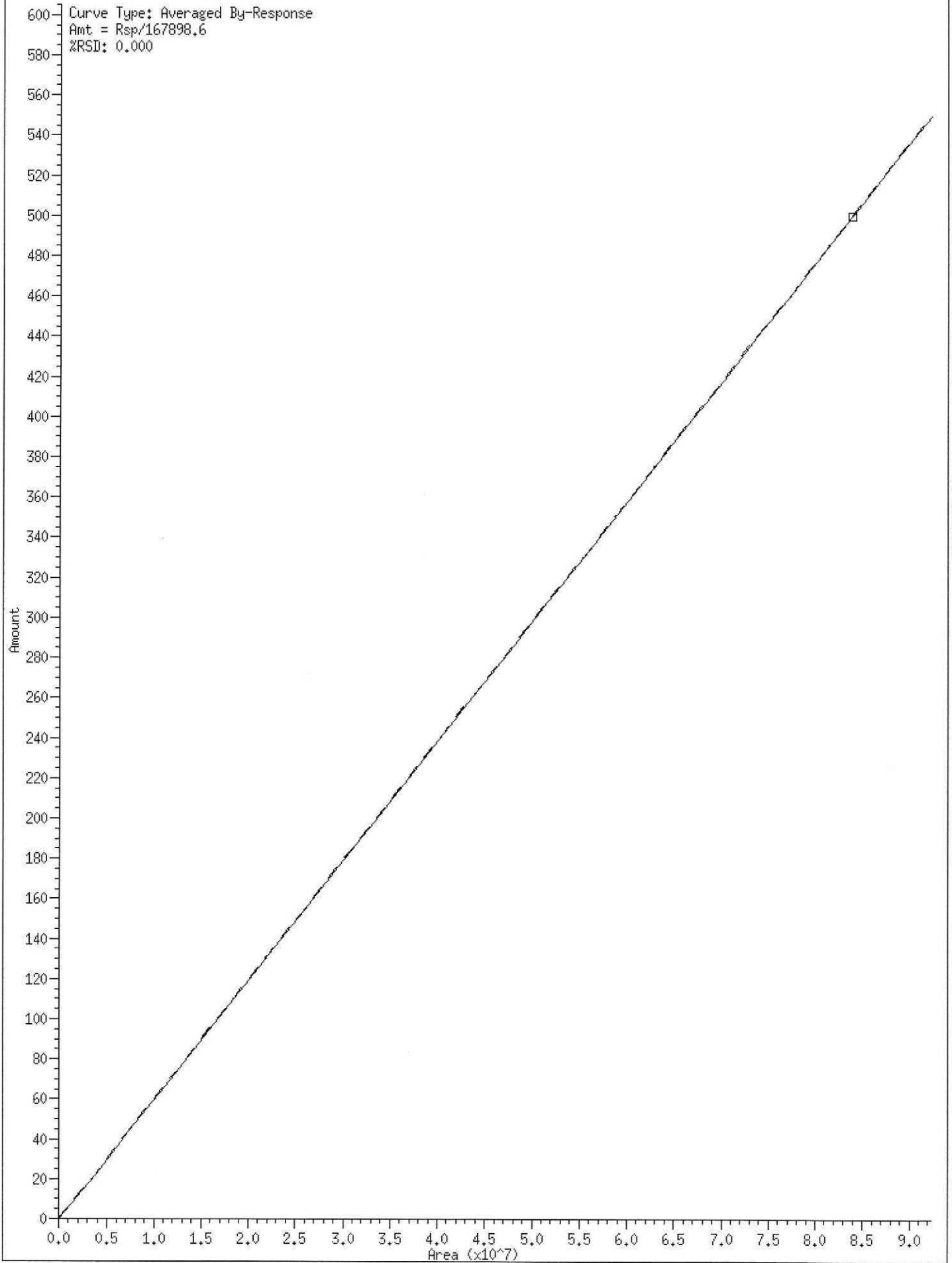
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0026	420E1954.D	BIE0282-BSDI		1	o-terph,
0046	420E1955.D	20E0151-01		1	NO MANUAL INTEGRATION
0105	420E1956.D	20E0160-01		1	o-terph,
0125	420E1957.D	SIE0162-CCV9		1	o-terph,
0144	420E1958.D	SIE0162-CCVA		1	Triacon Surr,
0203	420E1959.D	SIE0162-CCVB		1	NO MANUAL INTEGRATION

Security Status Report

Date: 20-May-2020 08:42

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420E1919.D	Data Locked	christopher,	20-May-2020	08:20
420E1920.D	Data Locked	christopher,	20-May-2020	08:20
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420E1922.D	Data Locked	christopher,	20-May-2020	08:20
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420E1959.D	Data Locked	christopher, 20-May-2020 08:20



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Date: 19-May-2020 11:05

Client ID:

Sample Info: SIE0162-CAL1

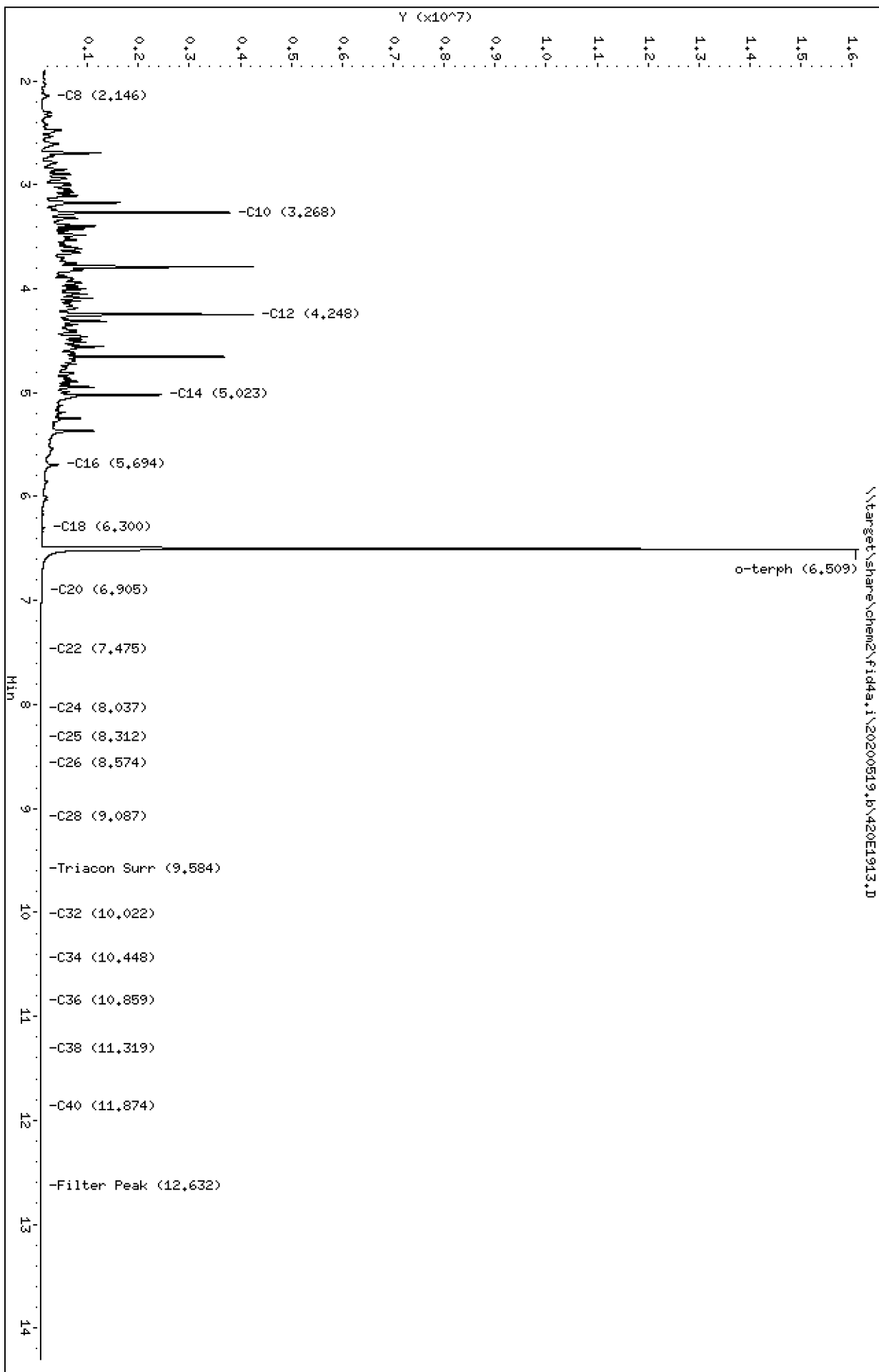
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200519.b/420E1913.D
Method: 20200519.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 05/20/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIE0162-CAL1
Client ID:
Injection: 19-MAY-2020 11:05
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

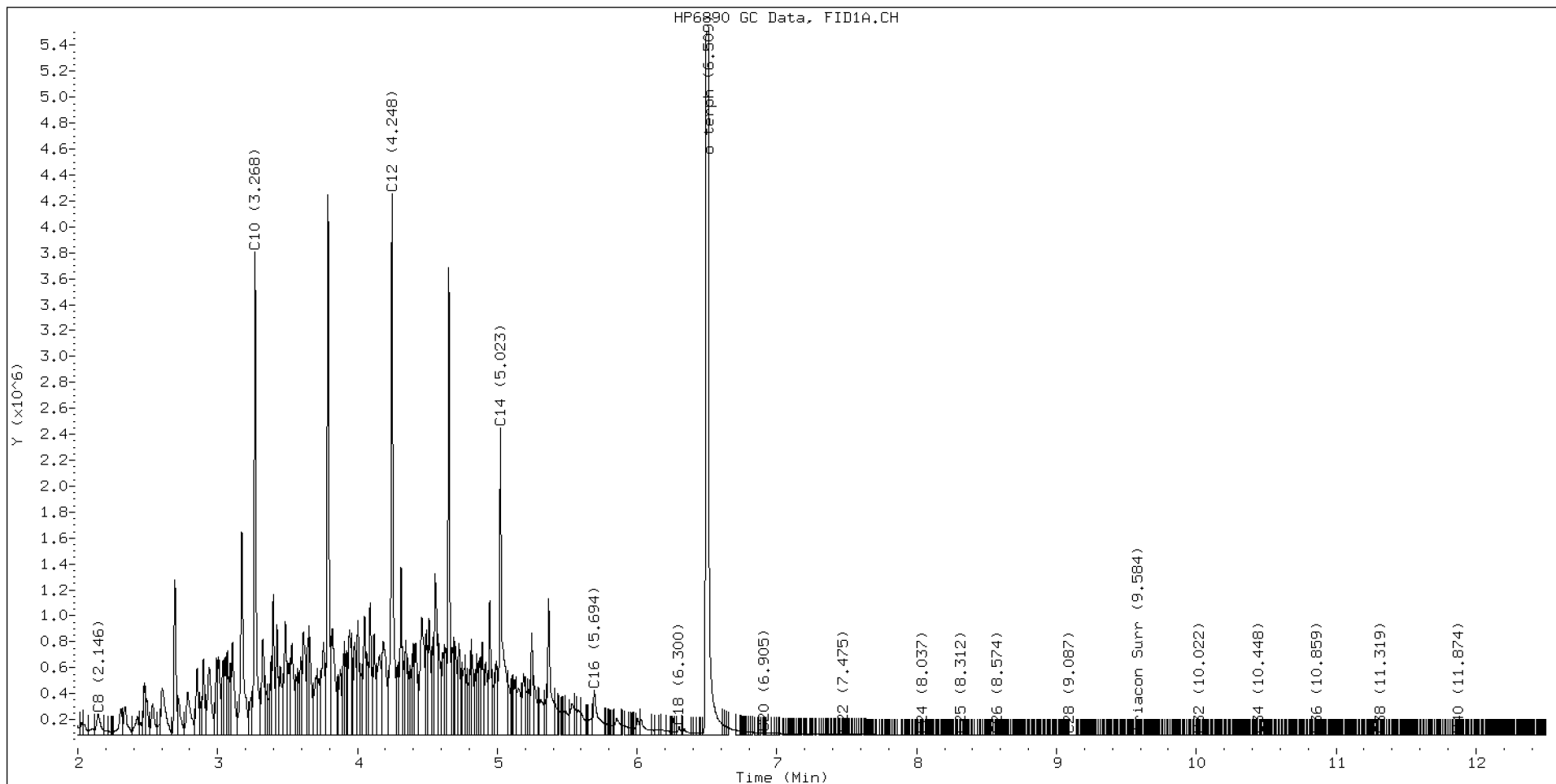
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.146	-0.014	162537	351667	WATPHD	(C12-C24)	43793314	274.8
C10	3.268	-0.006	3727060	3670074	WATPHM	(C24-C38)	298844	2.3
C12	4.248	-0.001	4175422	4596909	AK102	(C10-C25)	84977552	434.7
C14	5.023	-0.002	2366943	3478731	AK103	(C25-C36)	181563	2.5
C16	5.694	0.002	346661	872220	OR.DIES	(C10-C28)	85015601	433.8
C18	6.300	-0.002	67502	81701				
C20	6.905	0.012	18076	12457	JET-A	(C10-C18)	83949325	500.0
C22	7.475	0.003	7015	3124				
C24	8.037	0.002	2567	632				
C25	8.312	0.005	1720	641				
C26	8.574	0.002	577	179				
C28	9.087	0.004	278	137				
C32	10.022	0.002	985	413				
C34	10.448	-0.000	2249	1187				
Filter Peak	12.632	0.002	3646	2855	CREOSOT	(C12-C22)	43649163	1058.5
C36	10.859	-0.001	3434	1815				
C38	11.319	0.004	4203	2291				
C40	11.874	0.007	4118	1219				
o-terph	6.509	-0.003	16049011	17223619				
Triacon Surr	9.584	-0.003	924	375	NAS DIES	(C10-C24)	84956580	435.3

Range Times: NW Diesel(4.249 - 8.035) AK102(3.27 - 8.31) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.32) AK103(8.31 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	17223619	84.1
Triacontane	375	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200602.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	02-JUN-2020	07:40	420F0201.D	1	RINSE	
2	02-JUN-2020	07:59	420F0202.D	1	RINSE	
3	02-JUN-2020	08:19	420F0203.D	1	SIF0018-IBL1	
4	02-JUN-2020	08:38	420F0204.D	1	SIF0018-IBL2	
5	02-JUN-2020	08:58	420F0205.D	1	SIF0018-CAL1	
6	02-JUN-2020	09:17	420F0206.D	1	SIF0018-CAL2	
7	02-JUN-2020	09:37	420F0207.D	1	SIF0018-CAL3	
8	02-JUN-2020	09:56	420F0208.D	1	SIF0018-CAL4	
9	02-JUN-2020	10:16	420F0209.D	1	SIF0018-CAL5	
10	02-JUN-2020	10:36	420F0210.D	1	SIF0018-CAL6	
11	02-JUN-2020	10:55	420F0211.D	1	SIF0018-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200602.b

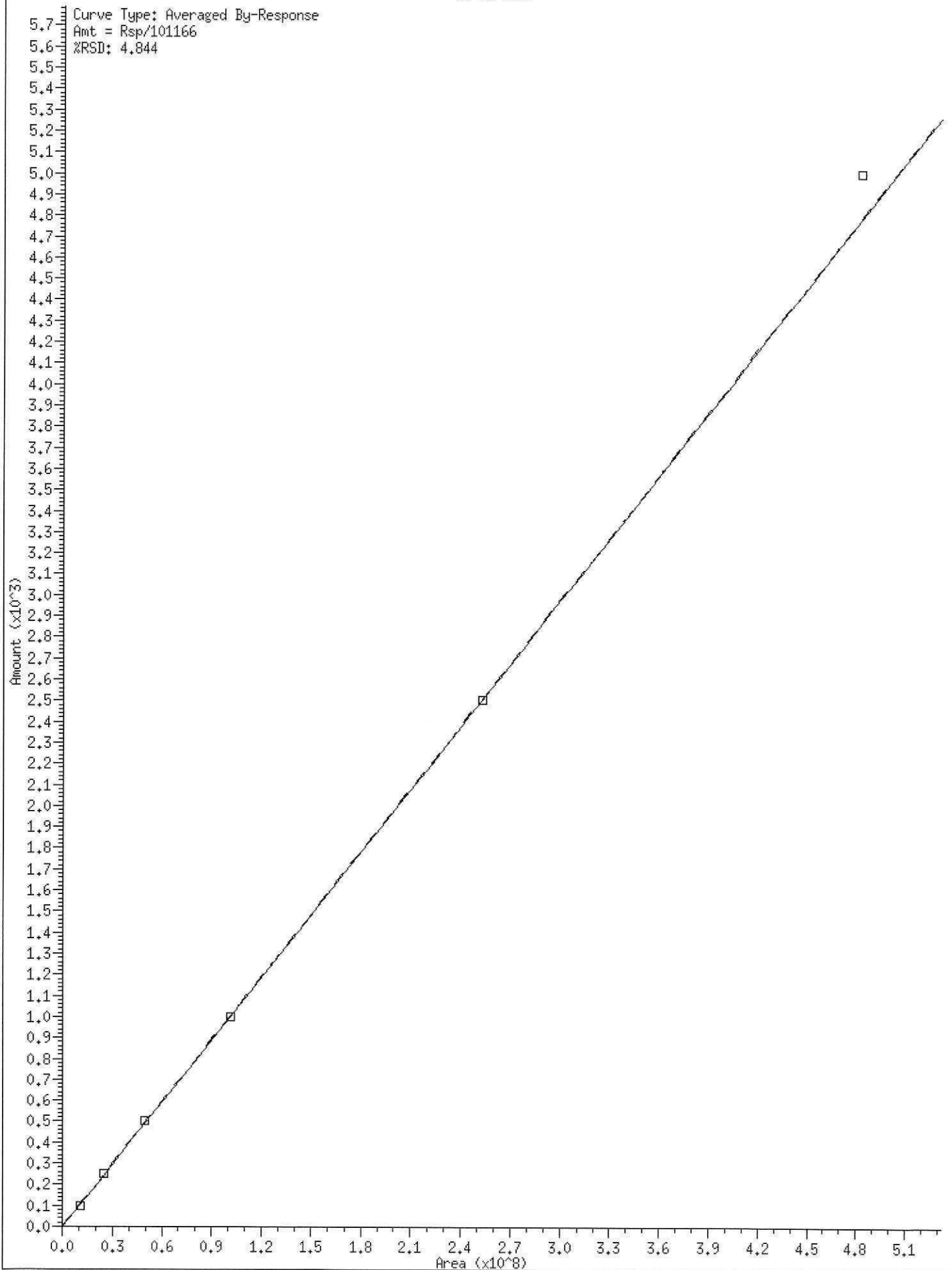
ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 02-JUN-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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0759	420F0202.D	RINSE		1	NO MANUAL INTEGRATION
0819	420F0203.D	SIF0018-IBL1		1	NO MANUAL INTEGRATION
0838	420F0204.D	SIF0018-IBL2		1	NO MANUAL INTEGRATION
0858	420F0205.D	SIF0018-CAL1		1	Triacon Surr,
0917	420F0206.D	SIF0018-CAL2		1	Triacon Surr,
0937	420F0207.D	SIF0018-CAL3		1	Triacon Surr,
0956	420F0208.D	SIF0018-CAL4		1	Triacon Surr,
1016	420F0209.D	SIF0018-CAL5		1	Triacon Surr,
1036	420F0210.D	SIF0018-CAL6		1	Triacon Surr,
1055	420F0211.D	SIF0018-SCV1		1	Triacon Surr,

Security Status Report

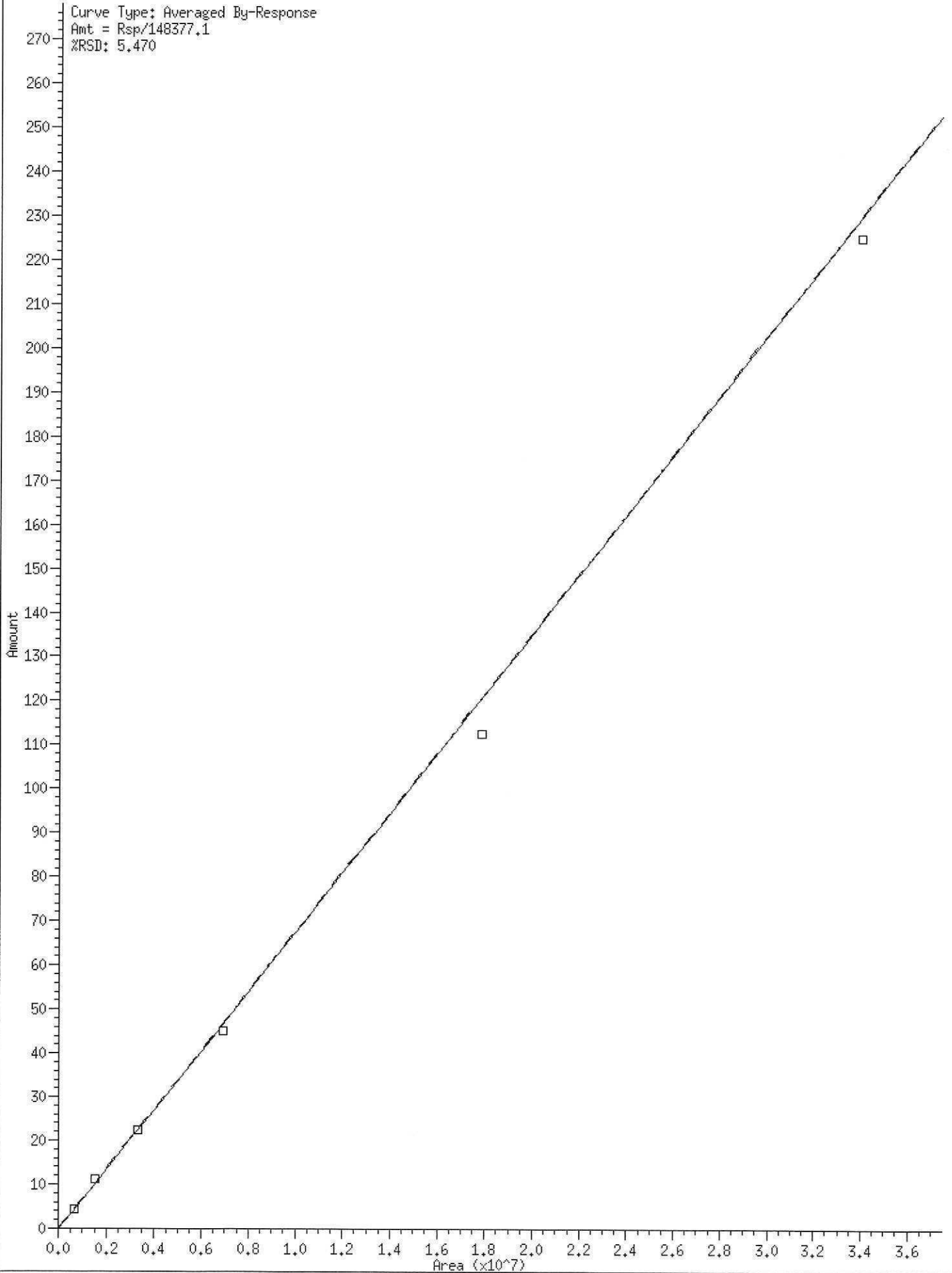
Date: 02-Jun-2020 12:52

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* 15 Triacon Surr

Curve Type: Averaged By-Response
Amt = Rsp/148377,1
%RSD: 5,470



Data File: \\target\share\chem2\fid4a,1\20200602,b\420F0203.D

Date: 02-JUN-2020 08:19

Client ID:

Sample Info: SIF0018-IBL1

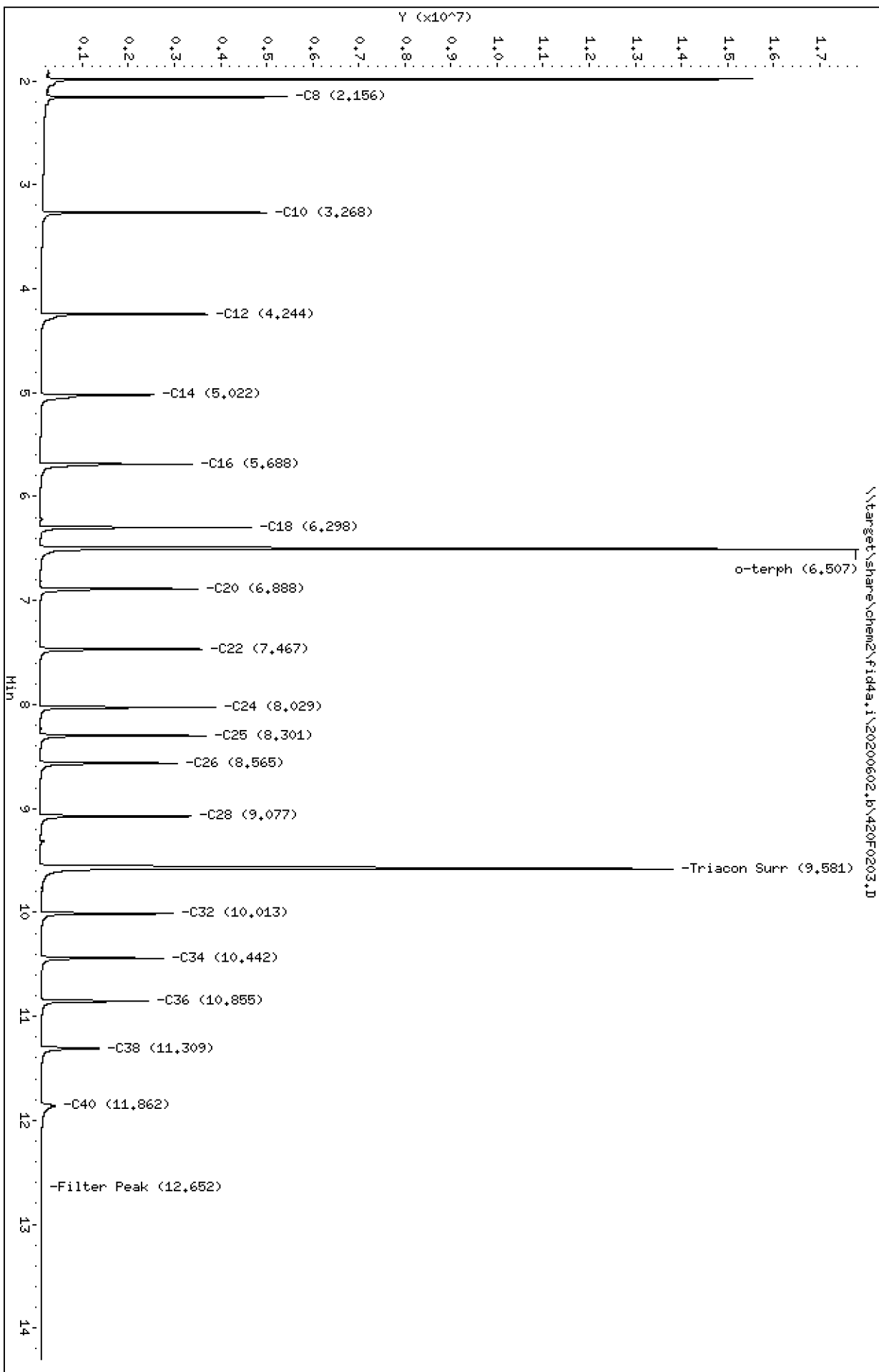
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0203.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-IBL1
Client ID:
Injection: 02-JUN-2020 08:19
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

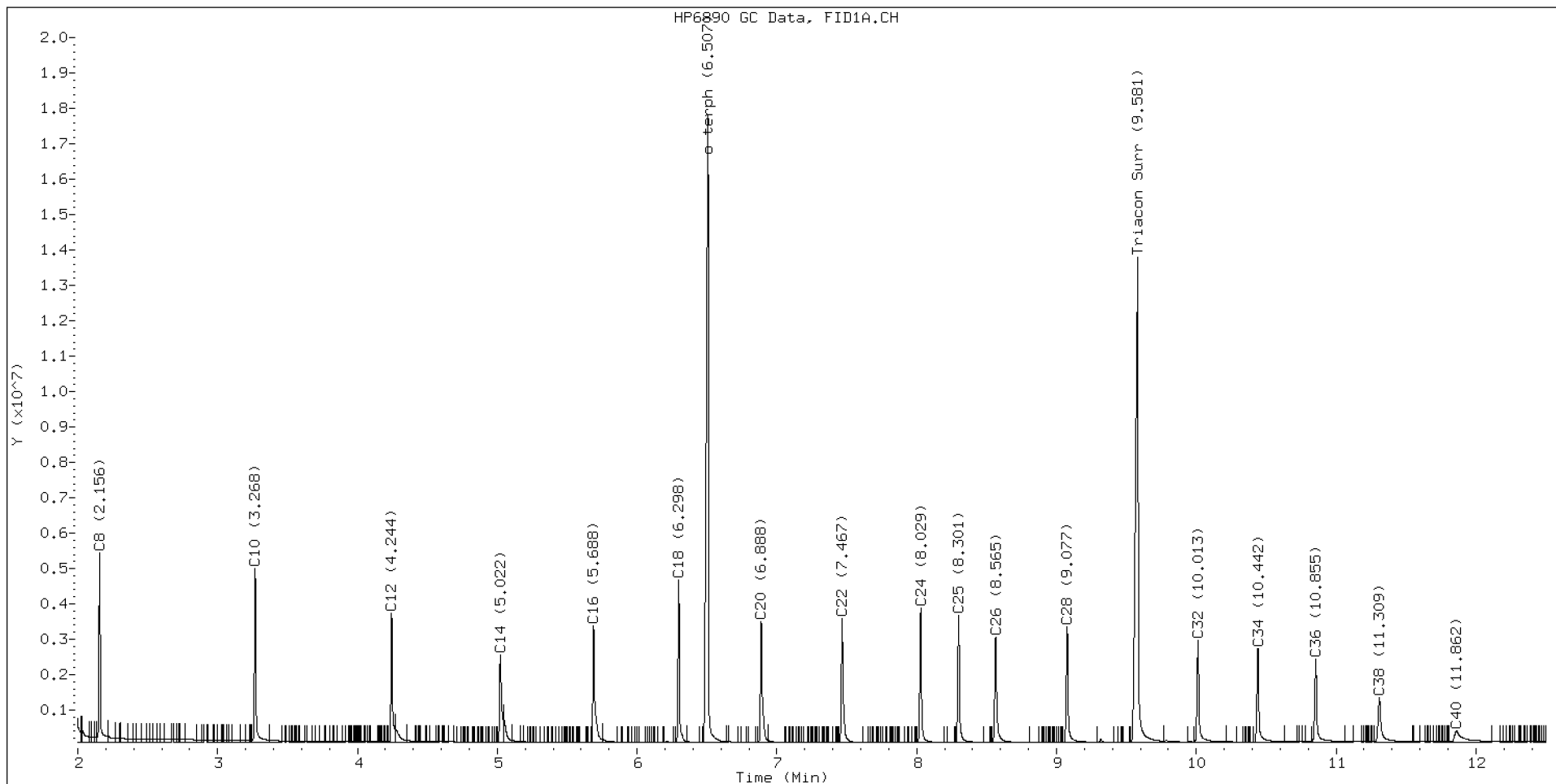
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.156	0.000	5355192	4028421	WATPHD	(C12-C24)	22818714	143.2
C10	3.268	0.000	4929332	4012342	WATPHM	(C24-C38)	23499770	232.3
C12	4.244	0.000	3648375	2898492	AK102	(C10-C25)	32299571	165.2
C14	5.022	0.000	2469047	2611753	AK103	(C25-C36)	20714599	283.0
C16	5.688	0.000	3293885	3376329	OR.DIES	(C10-C28)	42576768	217.2
C18	6.298	0.000	4585796	3403299				
C20	6.888	0.000	3419868	3390012	JET-A	(C10-C18)	21587777	128.6
C22	7.467	0.000	3501351	3461600				
C24	8.029	0.000	3816488	3373518				
C25	8.301	0.000	3598800	3438765				
C26	8.565	0.000	2983968	3399421				
C28	9.077	0.000	3266476	3362299				
C32	10.013	0.000	2880768	3301828				
C34	10.442	0.000	2669792	3096709				
Filter Peak	12.652	0.000	21186	7385	CREOSOT	(C12-C22)	19416290	470.8
C36	10.855	0.000	2366492	3017794				
C38	11.309	0.000	1282280	2537029				
C40	11.862	0.000	332084	1739109				
o-terph	6.507	0.000	17759087	19250772				
Triacon Surr	9.581	0.000	13722128	19528338	NAS DIES	(C10-C24)	32267307	165.3

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	19250772	94.0
Triacontane	19528338	131.6

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200602,b\420F0204.D

Date : 02-JUN-2020 08:38

Client ID:

Sample Info: SIF0018-IBL2

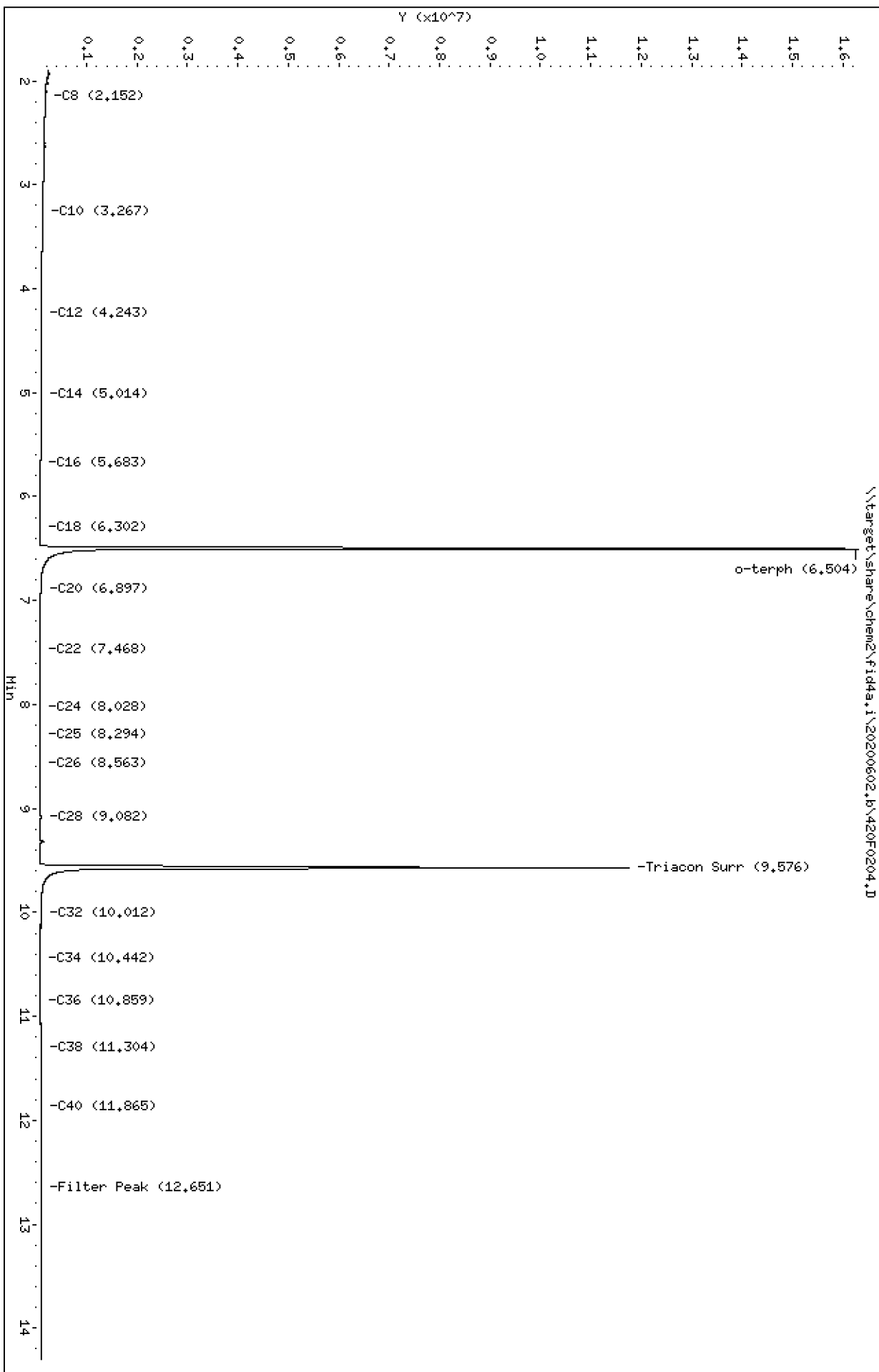
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0204.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-IBL2
Client ID:
Injection: 02-JUN-2020 08:38
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

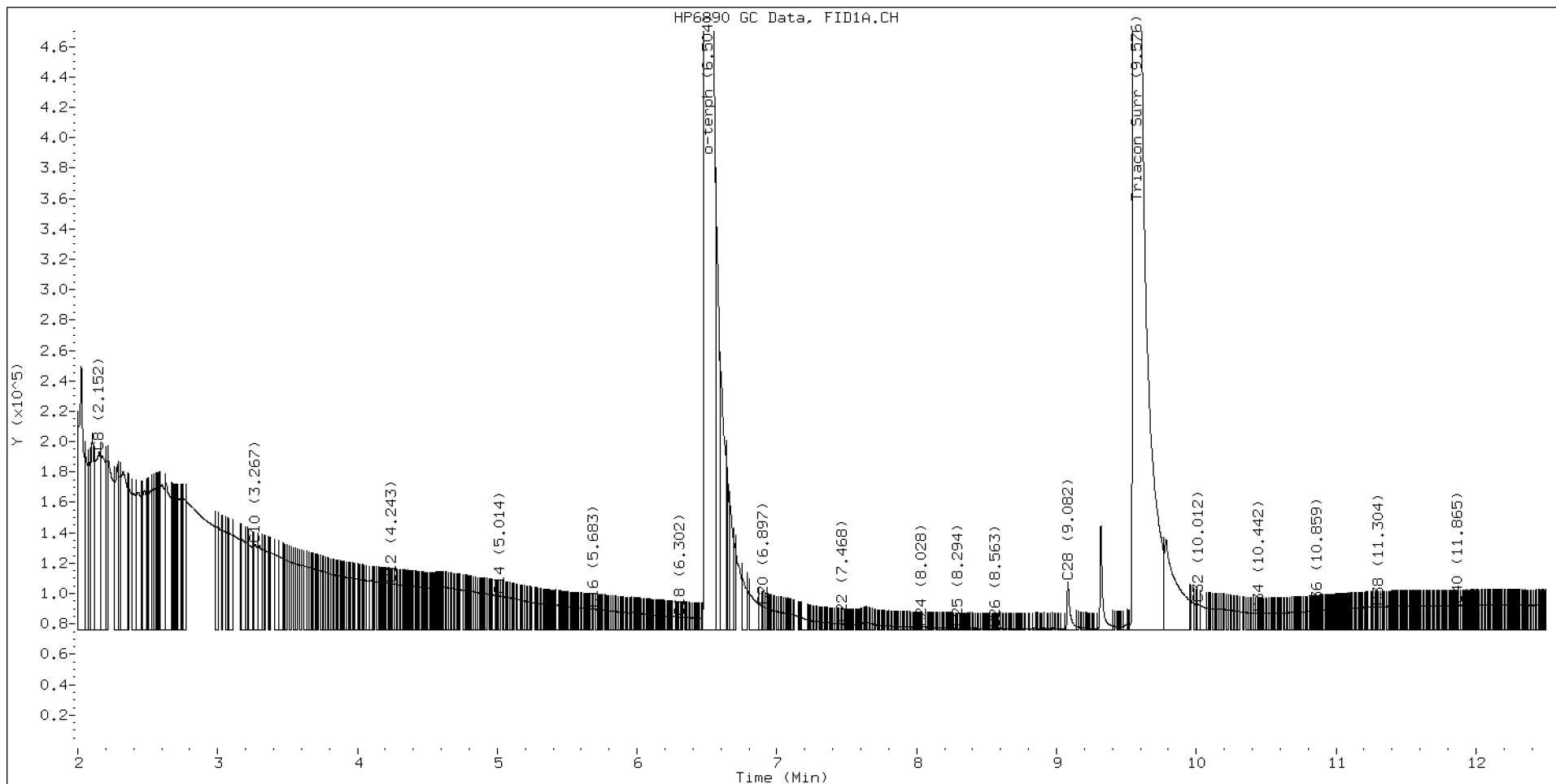
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.003	116720	322381	WATPHD	(C12-C24)	3533716	22.2
C10	3.267	-0.001	56124	109426	WATPHM	(C24-C38)	1474603	14.6
C12	4.243	-0.001	30150	13517	AK102	(C10-C25)	5497571	28.1
C14	5.014	-0.008	22108	20838	AK103	(C25-C36)	1111901	15.2
C16	5.683	-0.005	13417	7376	OR.DIES	(C10-C28)	5561088	28.4
C18	6.302	0.004	8282	6554				
C20	6.897	0.008	15268	9037	JET-A	(C10-C18)	3852356	22.9
C22	7.468	0.002	3677	2659				
C24	8.028	-0.001	1288	376				
C25	8.294	-0.007	805	727				
C26	8.563	-0.002	378	139				
C28	9.082	0.005	31186	44237				
C32	10.012	-0.001	16600	15536				
C34	10.442	-0.000	10597	4224				
Filter Peak	12.651	-0.001	16079	8841	CREOSOT	(C12-C22)	3469521	84.1
C36	10.859	0.004	12136	4837				
C38	11.304	-0.005	14999	9721				
C40	11.865	0.003	15845	9483				
o-terph	6.504	-0.003	16231603	17734069				
Triacon Surr	9.576	-0.005	11669958	15560412	NAS DIES	(C10-C24)	5488260	28.1

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	17734069	86.6
Triacontane	15560412	104.9

M Indicates the peak was manually integrated

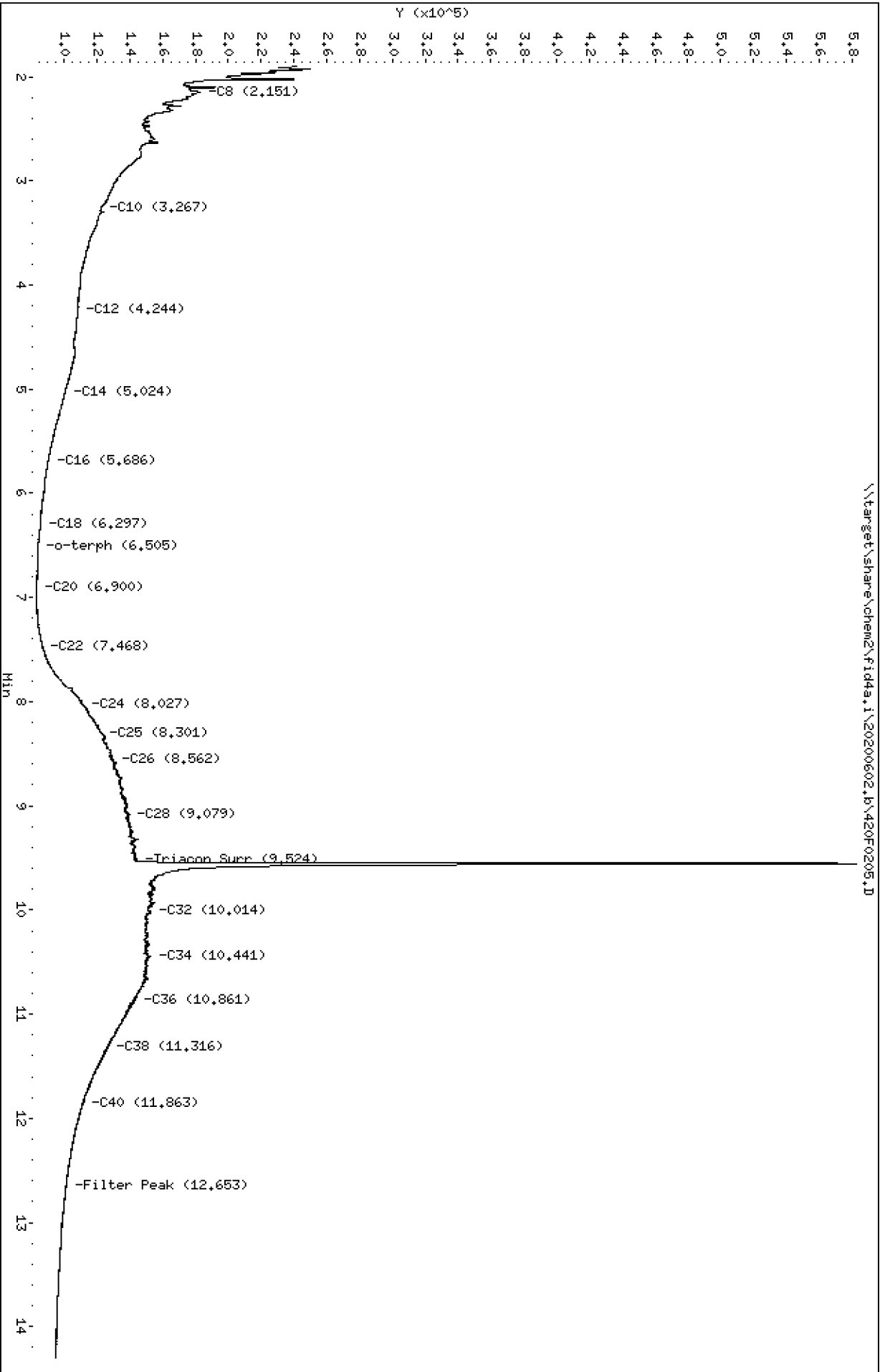
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0205.D
Date: 02-JUN-2020 08:58
Client ID:
Sample Info: SIF0018-CAL1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0205.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL1
Client ID:
Injection: 02-JUN-2020 08:58
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

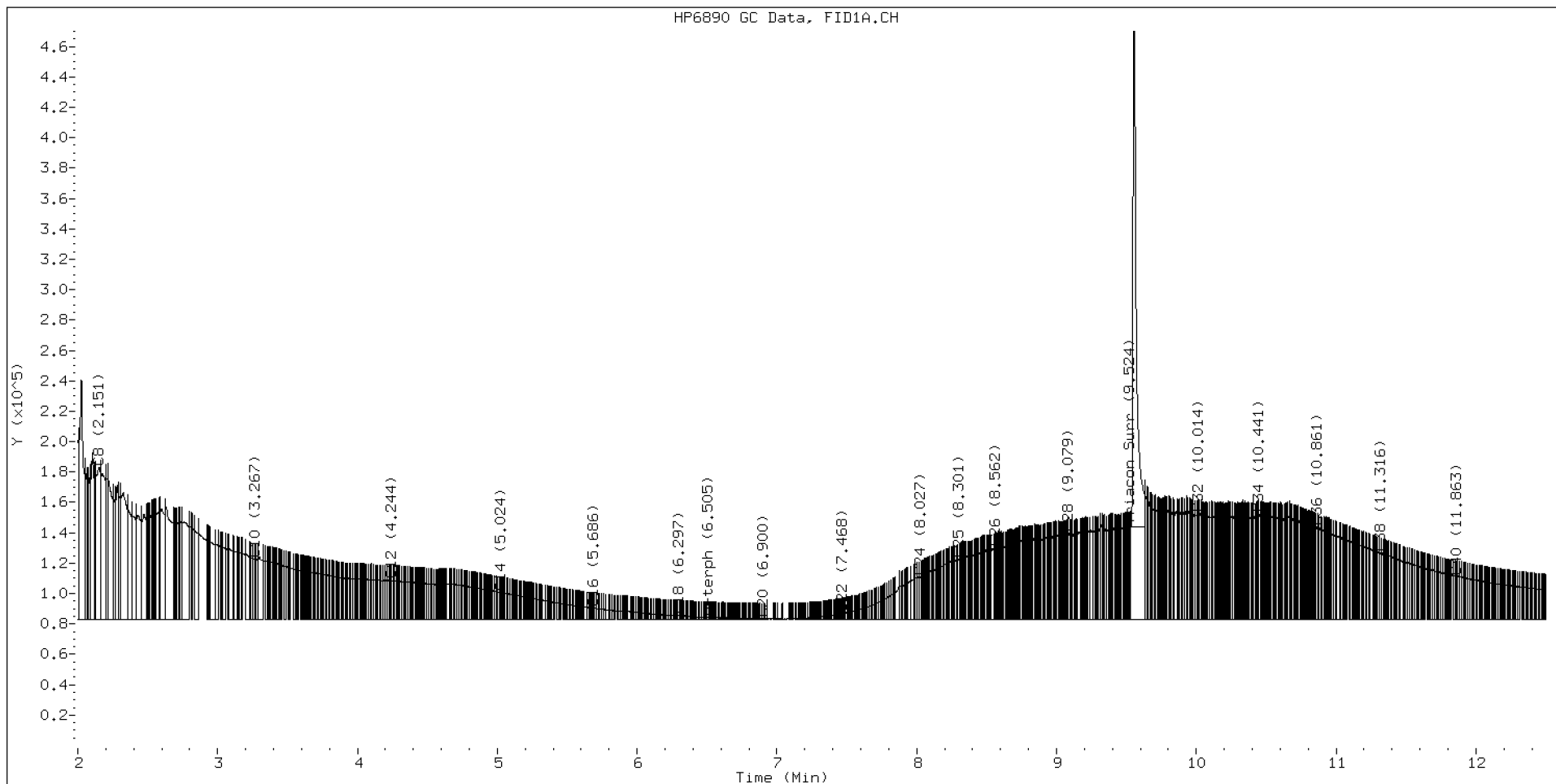
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.151	-0.005	99980	217759	WATPHD	(C12-C24)	2058424	12.9
C10	3.267	-0.001	39589	29601	WATPHM	(C24-C38)	11047515	109.2
C12	4.244	-0.001	25508	17793	AK102	(C10-C25)	4072327	20.8
C14	5.024	0.003	17563	10459	AK103	(C25-C36)	9356465	127.8
C16	5.686	-0.002	7220	3247	OR.DIES	(C10-C28)	6554980	33.4
C18	6.297	-0.001	2600	2106				
C20	6.900	0.012	302	196	JET-A	(C10-C18)	3118295	18.6
C22	7.468	0.001	3759	1459				
C24	8.027	-0.002	28105	24801				
C25	8.301	0.000	39391	25449				
C26	8.562	-0.003	47032	11725				
C28	9.079	0.003	56481	28105				
C32	10.014	0.002	69879	38102				
C34	10.441	-0.001	69476	34247				
Filter Peak	12.653	0.001	18229	12666	CREOSOT	(C12-C22)	1520804	36.9
C36	10.861	0.006	60542	41919				
C38	11.316	0.007	43480	28015				
C40	11.863	0.001	28191	8434				
o-terph	6.505	-0.001	1238	750				
Triacon Surr	9.554	-0.026	438731	632528	NAS DIES	(C10-C24)	3725496	19.1

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	750	0.0
Triacontane	632528	4.3 M

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020

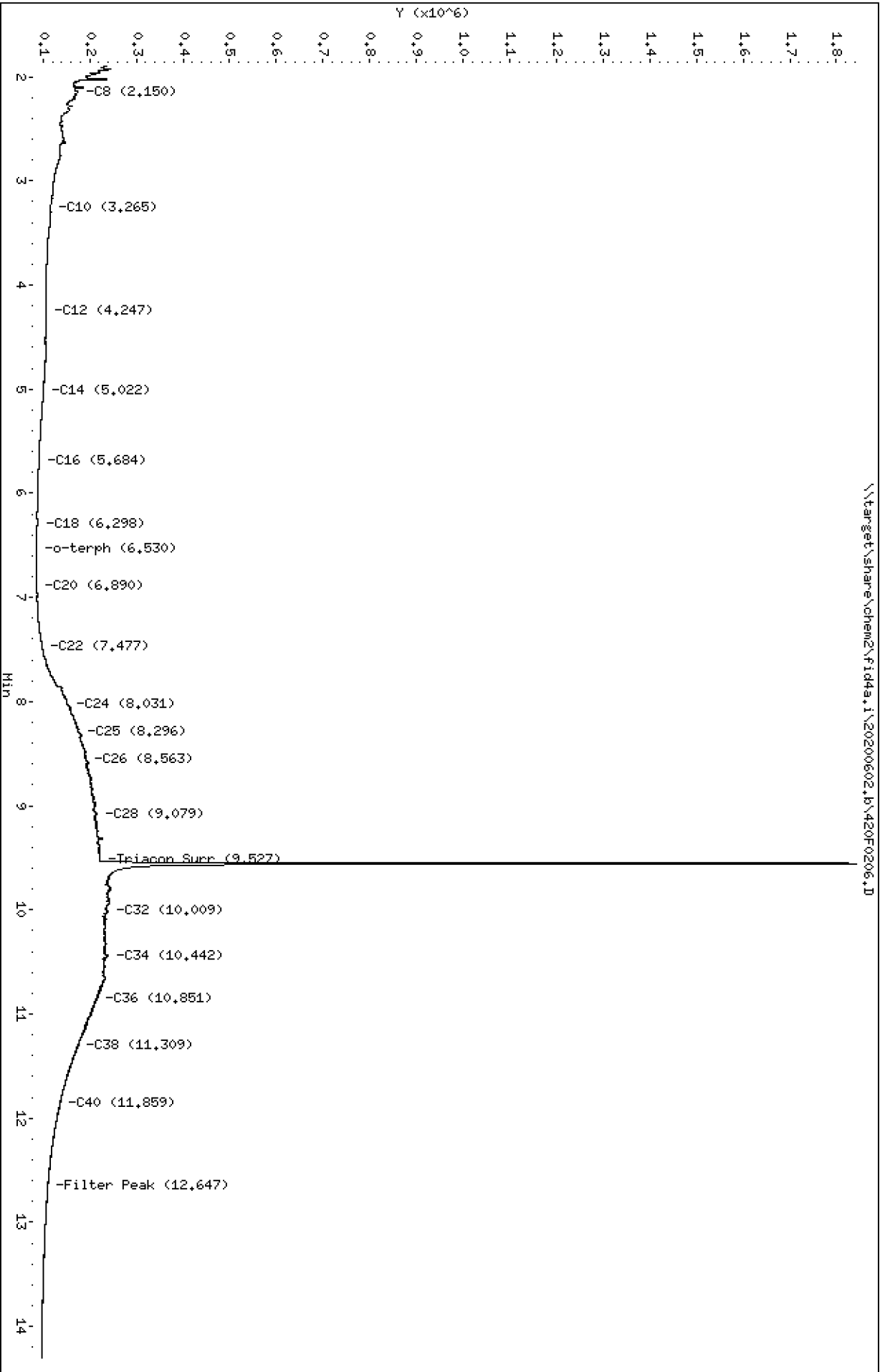


Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0206.D
Date : 02-JUN-2020 09:17
Client ID:
Sample Info: SIF0018-CAL2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0206.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL2
Client ID:
Injection: 02-JUN-2020 09:17
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

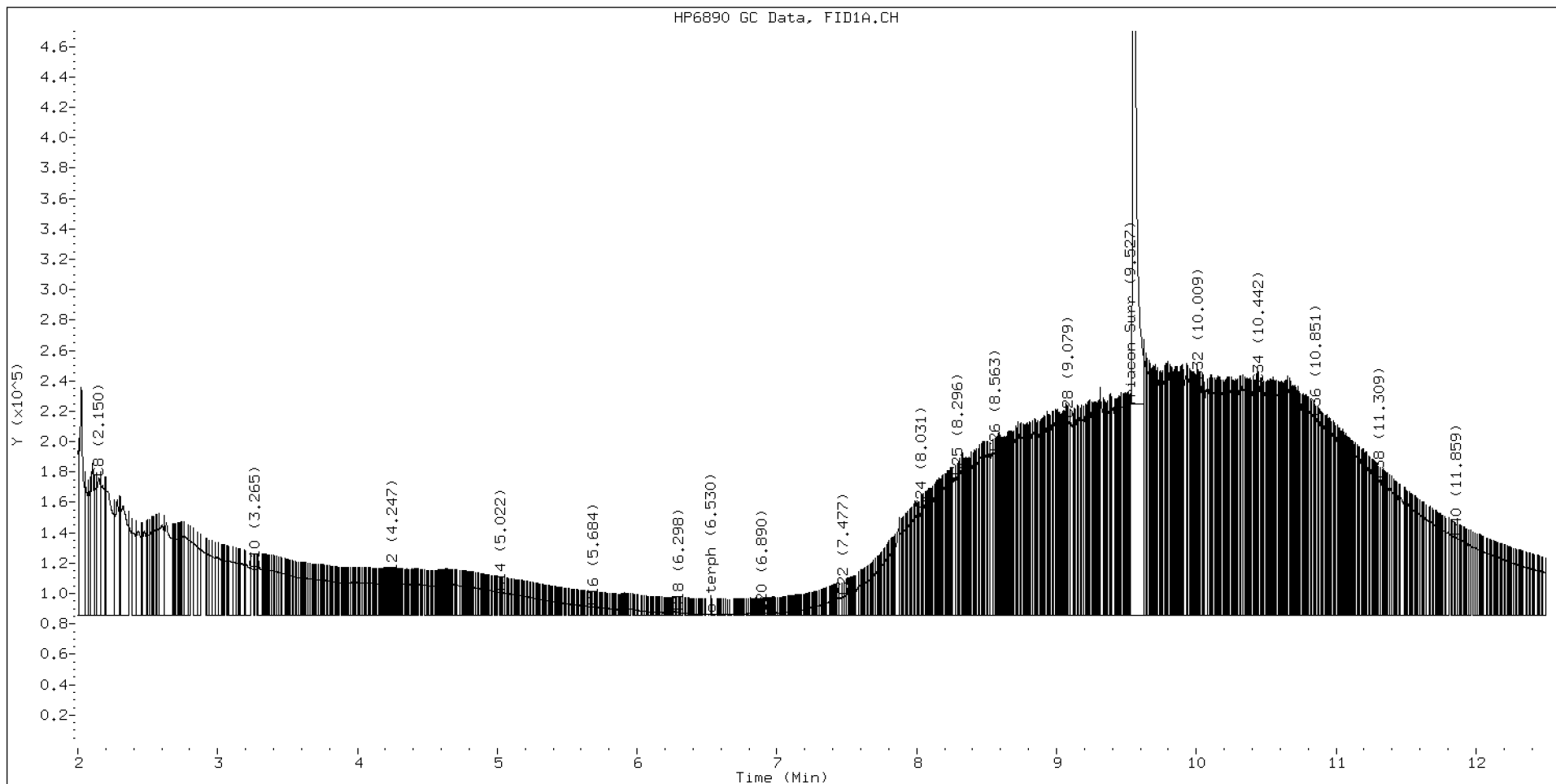
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.150	-0.006	89858	185422	WATPHD	(C12-C24)	2712070	17.0
C10	3.265	-0.003	30146	13534	WATPHM	(C24-C38)	24525710	242.4
C12	4.247	0.002	20913	5217	AK102	(C10-C25)	4830477	24.7
C14	5.022	0.000	14927	5202	AK103	(C25-C36)	21012310	287.0
C16	5.684	-0.004	5316	3160	OR.DIES	(C10-C28)	10587317	54.0
C18	6.298	-0.001	1804	867				
C20	6.890	0.002	868	325	JET-A	(C10-C18)	2431354	14.5
C22	7.477	0.010	11963	10299				
C24	8.031	0.002	68912	56553				
C25	8.296	-0.005	90908	49681				
C26	8.563	-0.002	106529	37089				
C28	9.079	0.002	128296	51107				
C32	10.009	-0.003	153736	84024				
C34	10.442	0.000	152153	67959				
Filter Peak	12.647	-0.005	24724	15926	CREOSOT	(C12-C22)	1339051	32.5
C36	10.851	-0.004	129949	77218				
C38	11.309	0.000	88878	57220				
C40	11.859	-0.002	51003	42869				
o-terph	6.530	0.023	286	110				
Triacon Surr	9.553	-0.027	1618248	1548362	NAS DIES	(C10-C24)	4003518	20.5

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	110	0.0
Triacontane	1548362	10.4 M

M Indicates the peak was manually integrated

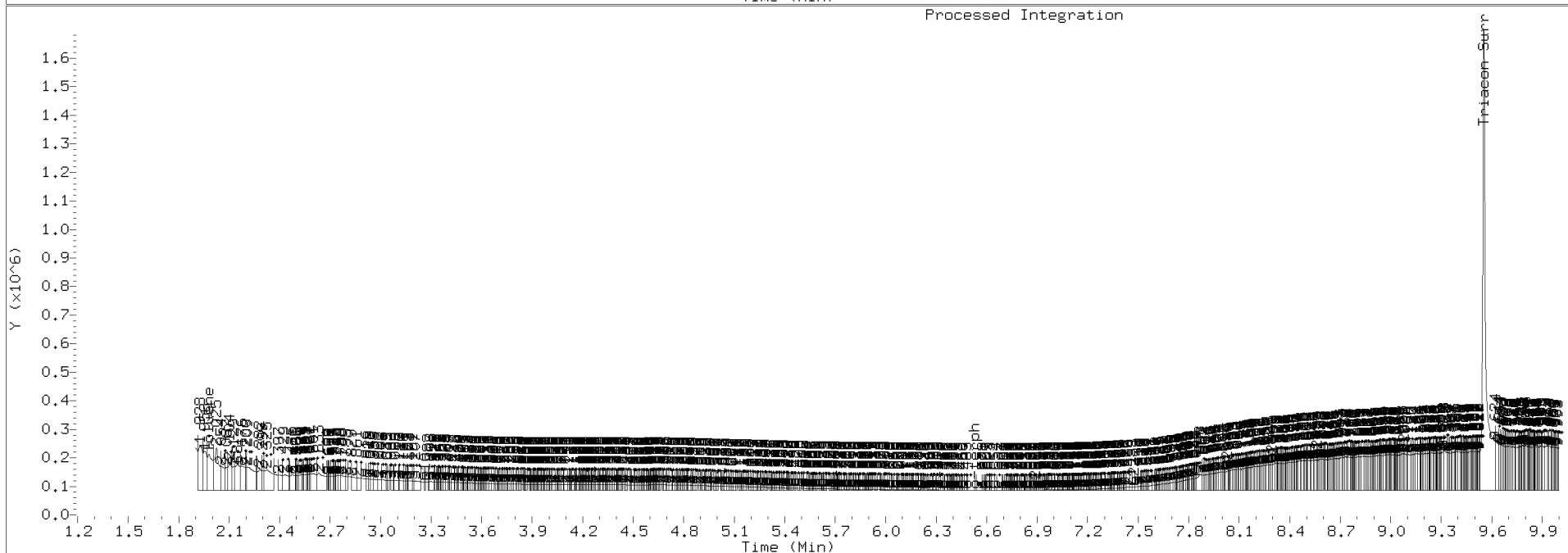
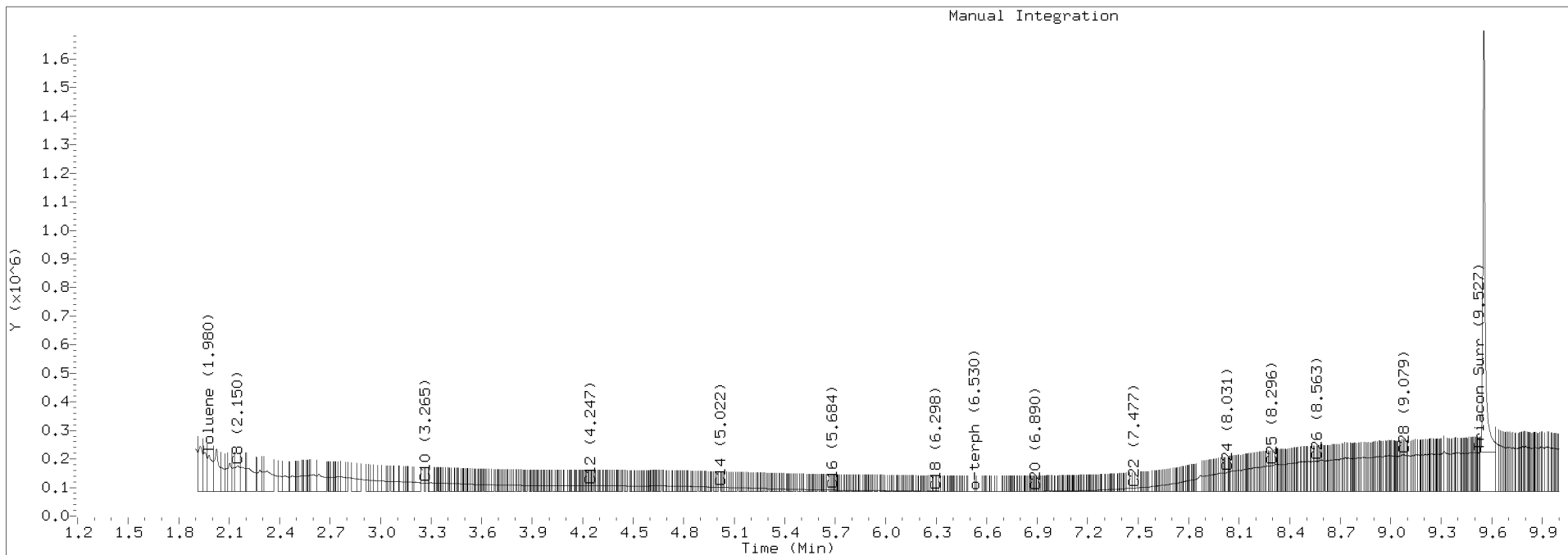
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0206.D Injection: 02-JUN-2020 09:17

Lab ID:SIF0018-CAL2



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0207.D

Date : 02-JUN-2020 09:37

Client ID:

Sample Info: SIF0018-CAL3

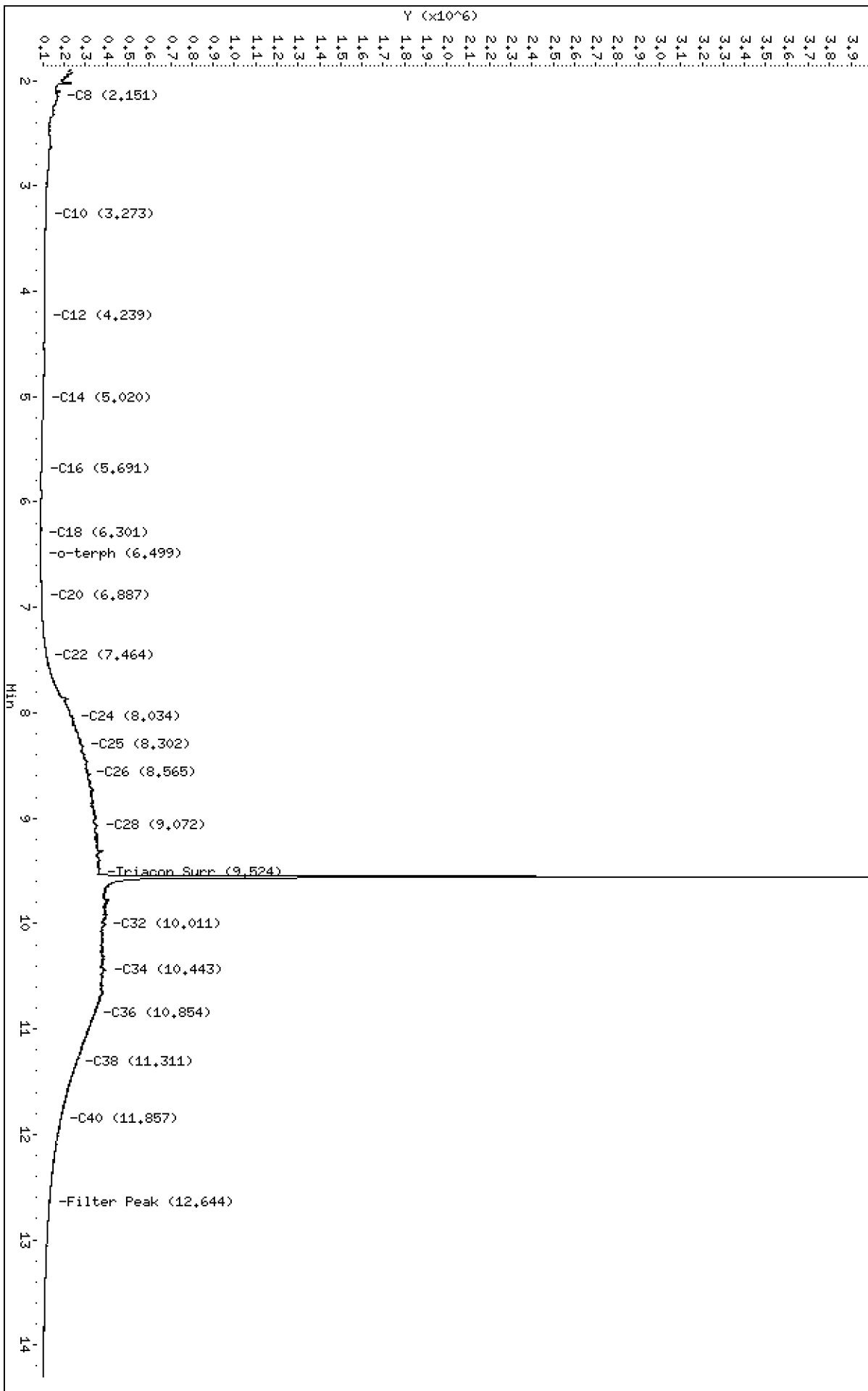
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200602_b\420F0207.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0207.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL3
Client ID:
Injection: 02-JUN-2020 09:37
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

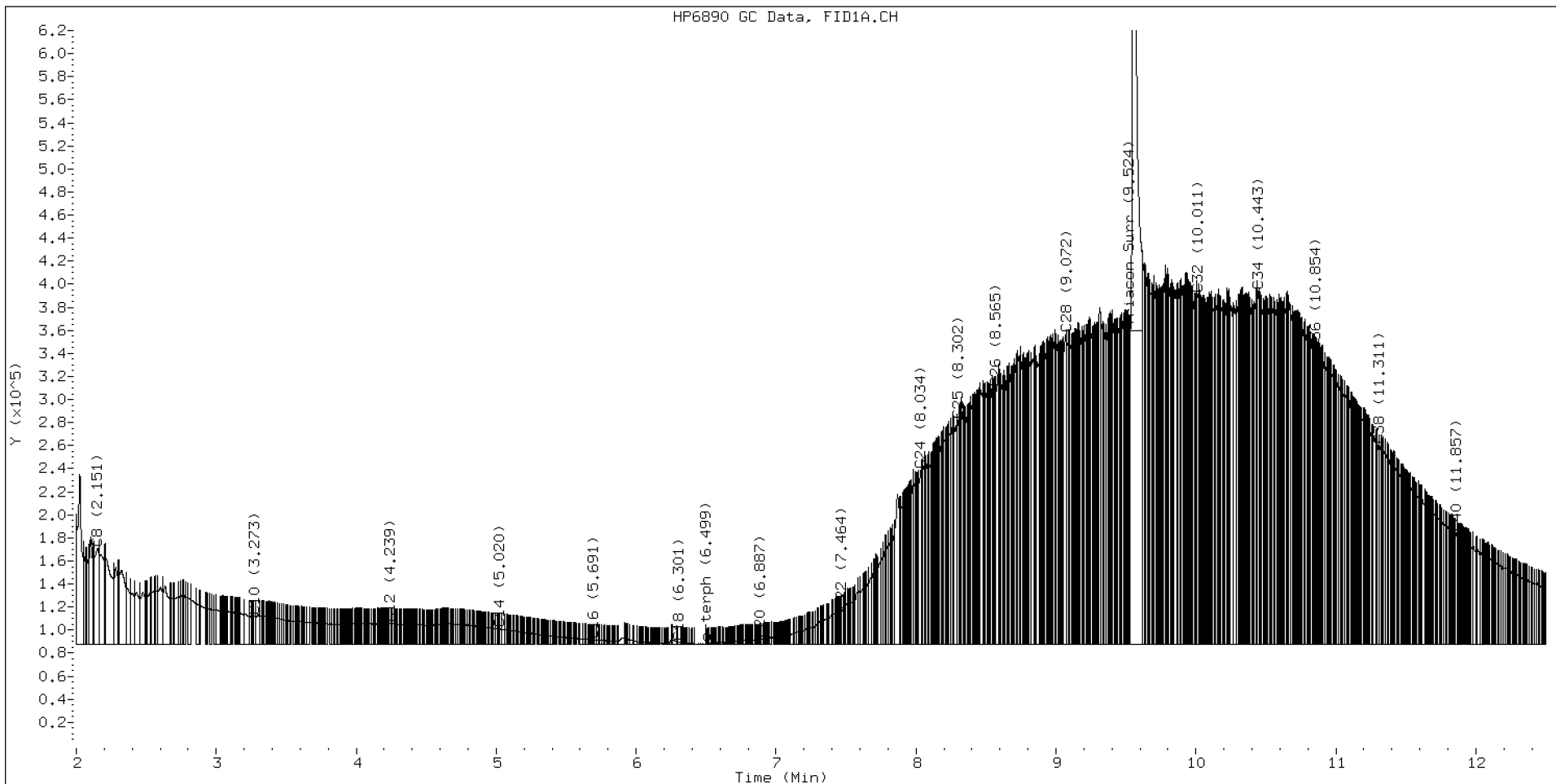
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.151	-0.005	83340	181737	WATPHD	(C12-C24)	4669475	29.3
C10	3.273	0.004	24124	29803	WATPHM	(C24-C38)	49486995	489.2
C12	4.239	-0.005	17851	9766	AK102	(C10-C25)	7430681	38.0
C14	5.020	-0.001	13143	9087	AK103	(C25-C36)	42295515	577.8
C16	5.691	0.003	3577	1419	OR.DIES	(C10-C28)	19434570	99.2
C18	6.301	0.003	1747	1733				
C20	6.887	-0.001	3928	772	JET-A	(C10-C18)	2089833	12.4
C22	7.464	-0.003	28742	14145				
C24	8.034	0.005	150683	195060				
C25	8.302	0.001	193725	142733				
C26	8.565	0.000	222104	154233				
C28	9.072	-0.005	269216	379539				
C32	10.011	-0.001	303243	166080				
C34	10.443	0.001	305814	210777				
Filter Peak	12.644	-0.008	43077	59185	CREOSOT	(C12-C22)	1595428	38.7
C36	10.854	-0.001	253799	113868				
C38	11.311	0.002	172045	186385				
C40	11.857	-0.005	96077	71008				
o-terph	6.499	-0.008	250	102				
Triacon Surr	9.559	-0.022	3627992	3323417	NAS DIES	(C10-C24)	5759449	29.5

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	102	0.0
Triacontane	3323417	22.4 M

M Indicates the peak was manually integrated

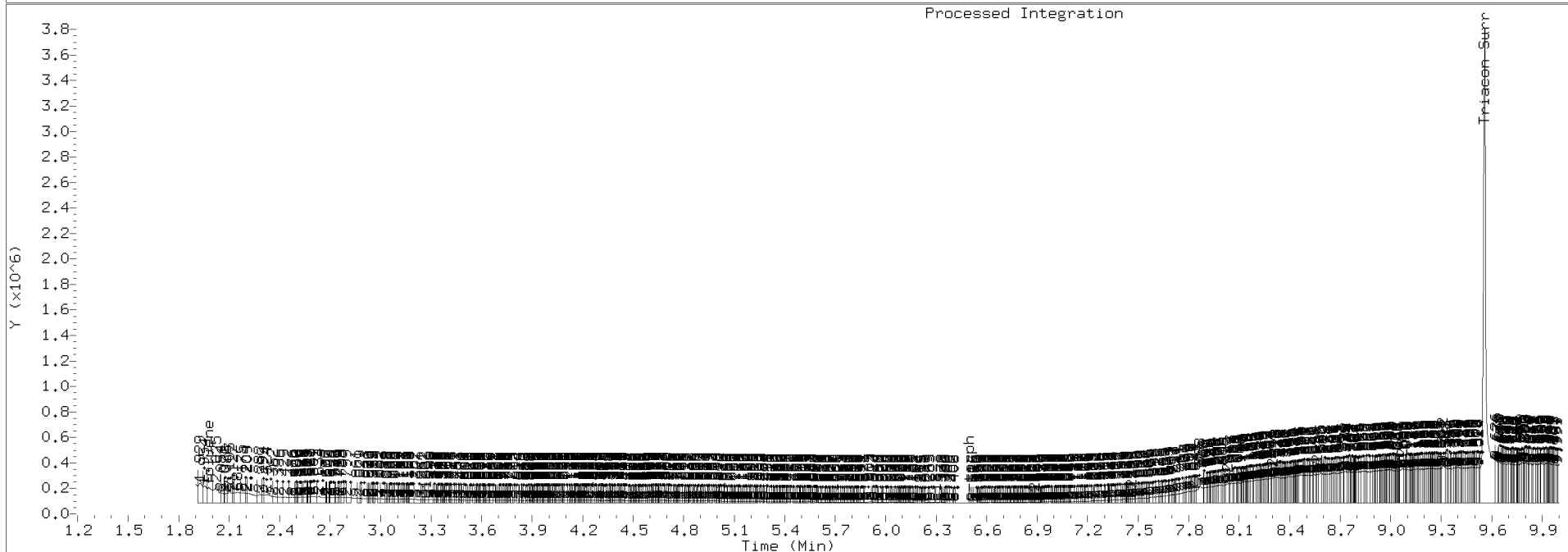
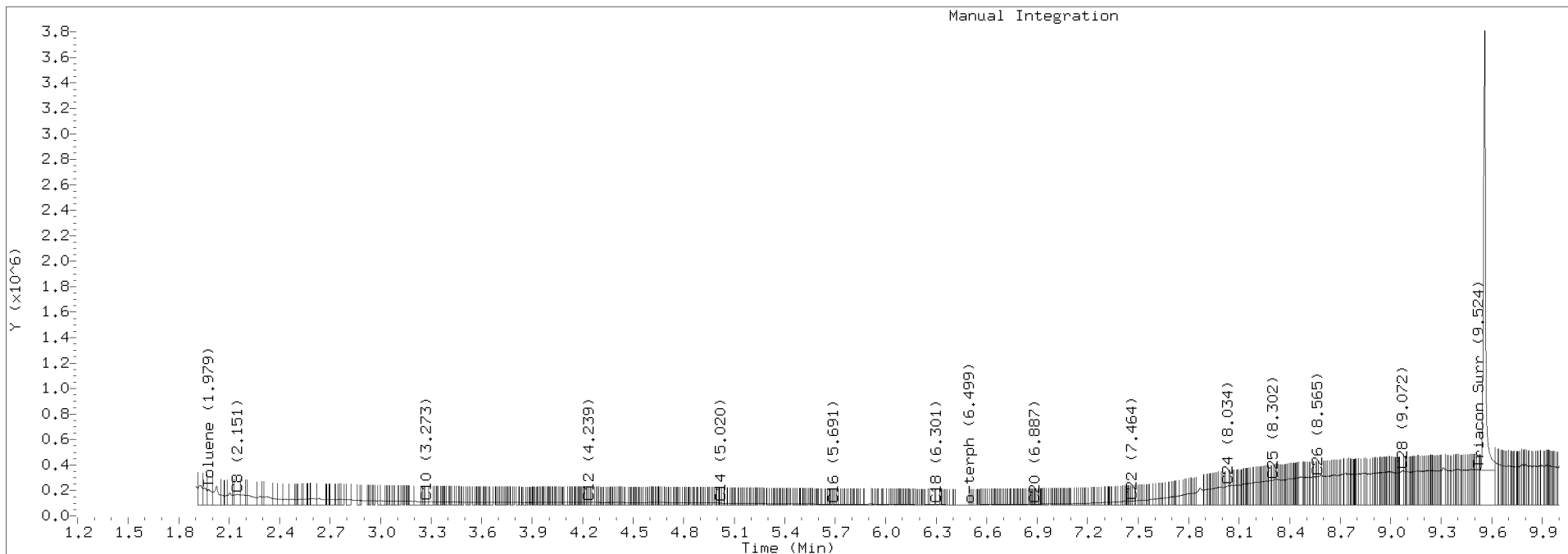
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0207.D Injection: 02-JUN-2020 09:37

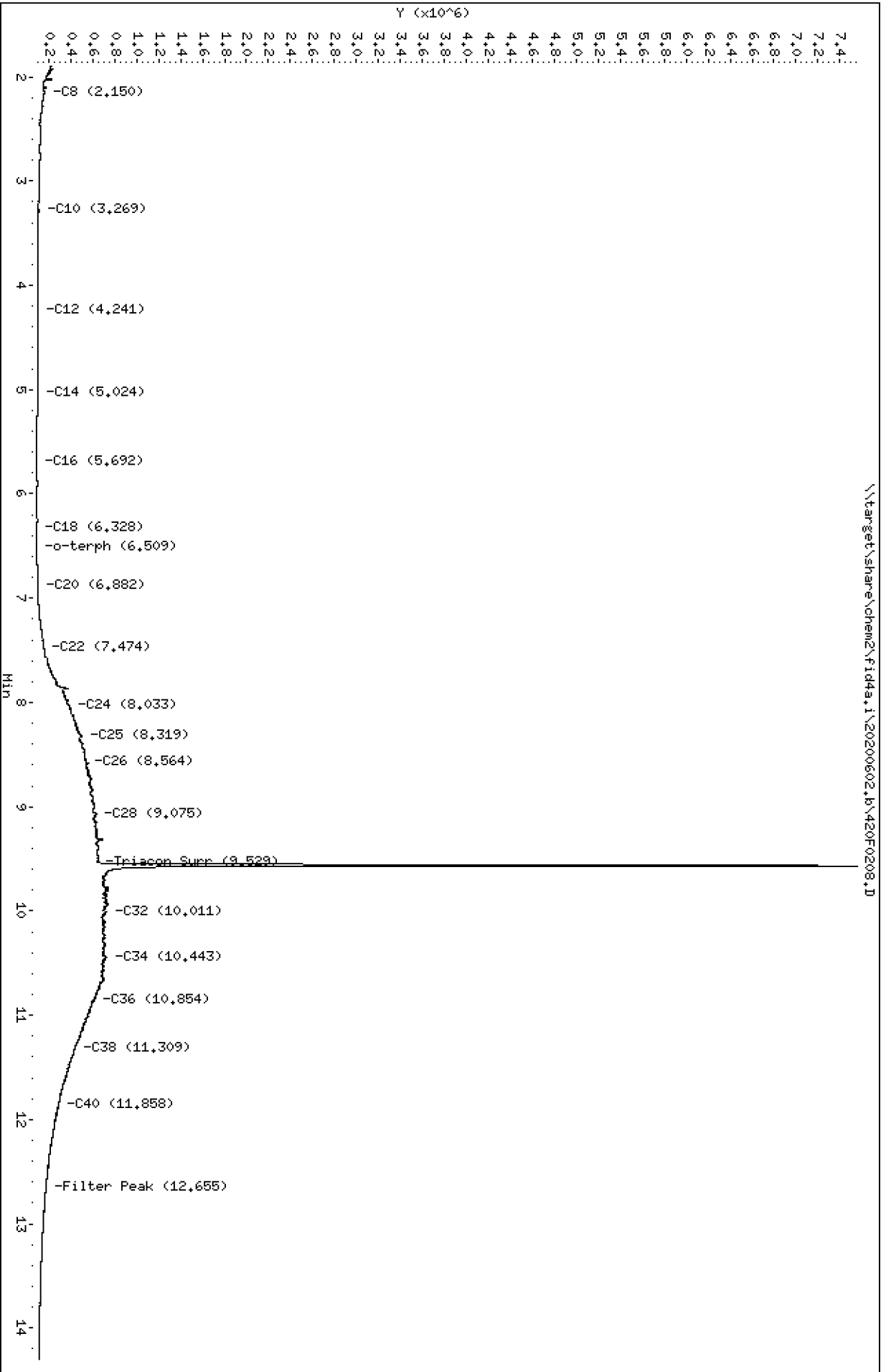
Lab ID:SIF0018-CAL3



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0208.D
Date: 02-JUN-2020 09:56
Client ID:
Sample Info: SIF0018-CAL4

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0208.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL4
Client ID:
Injection: 02-JUN-2020 09:56
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

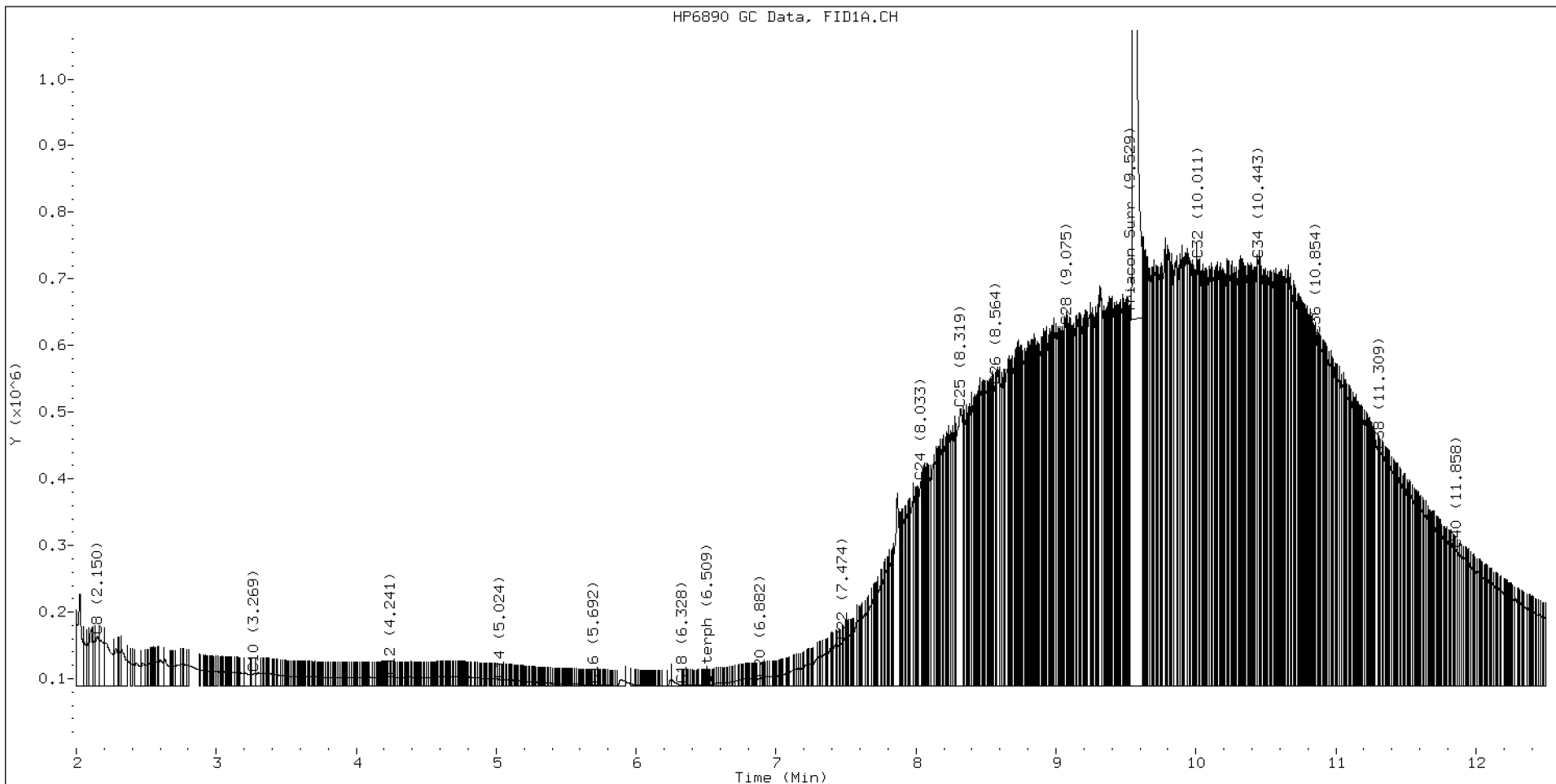
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.150	-0.006	74771	134338	WATPHD	(C12-C24)	8555448	53.7
C10	3.269	0.001	18936	30862	WATPHM	(C24-C38)	101521093	1003.5
C12	4.241	-0.003	13823	8198	AK102	(C10-C25)	12841862	65.7
C14	5.024	0.002	10299	9083	AK103	(C25-C36)	86804393	1185.7
C16	5.692	0.004	1790	930	OR.DIES	(C10-C28)	37125765	189.4
C18	6.328	0.029	1582	935				
C20	6.882	-0.006	11147	11817	JET-A	(C10-C18)	1615268	9.6
C22	7.474	0.008	67672	77092				
C24	8.033	0.004	306185	439125				
C25	8.319	0.018	416111	1127058				
C26	8.564	-0.001	451269	313667				
C28	9.075	-0.001	539909	295930				
C32	10.011	-0.001	639854	440607				
C34	10.443	0.001	639844	540147				
Filter Peak	12.655	0.004	86624	68681	CREOSOT	(C12-C22)	2251661	54.6
C36	10.854	-0.001	524868	130805				
C38	11.309	-0.001	353422	105615				
C40	11.858	-0.004	204852	161643				
o-terph	6.509	0.002	1937	664				
Triacon Surr	9.567	-0.014	6918042	6925867	NAS DIES	(C10-C24)	9387862	48.1

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	664	0.0
Triacontane	6925867	46.7 M

M Indicates the peak was manually integrated

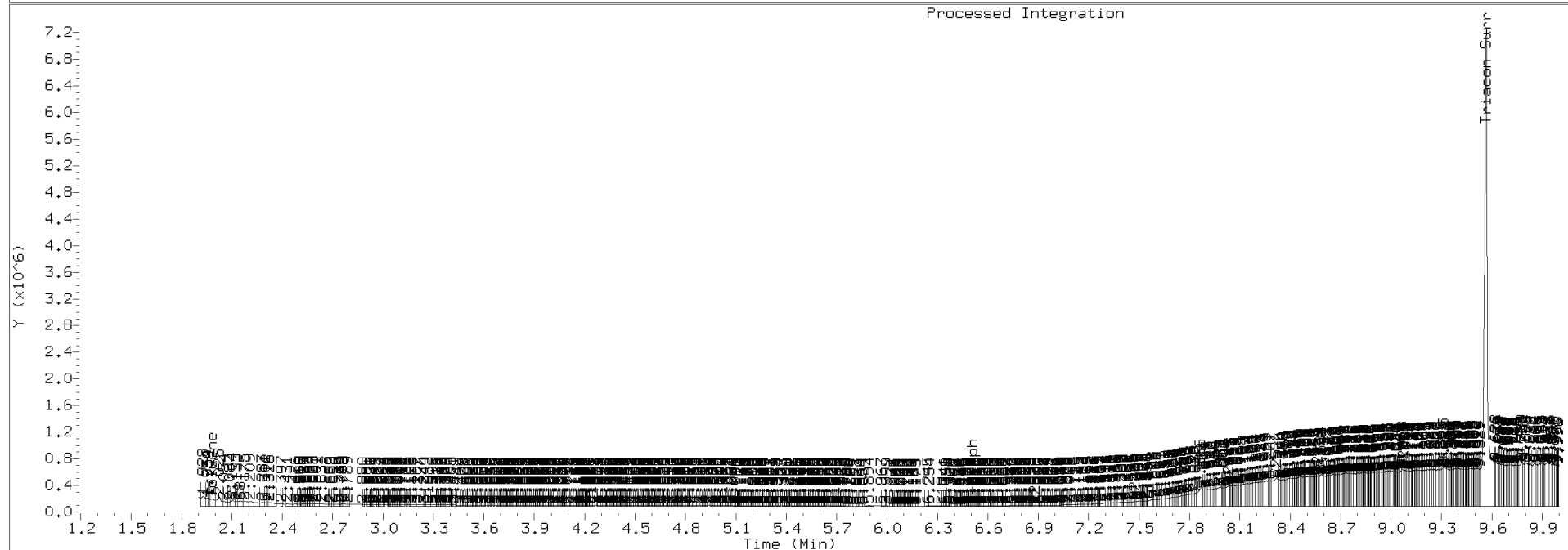
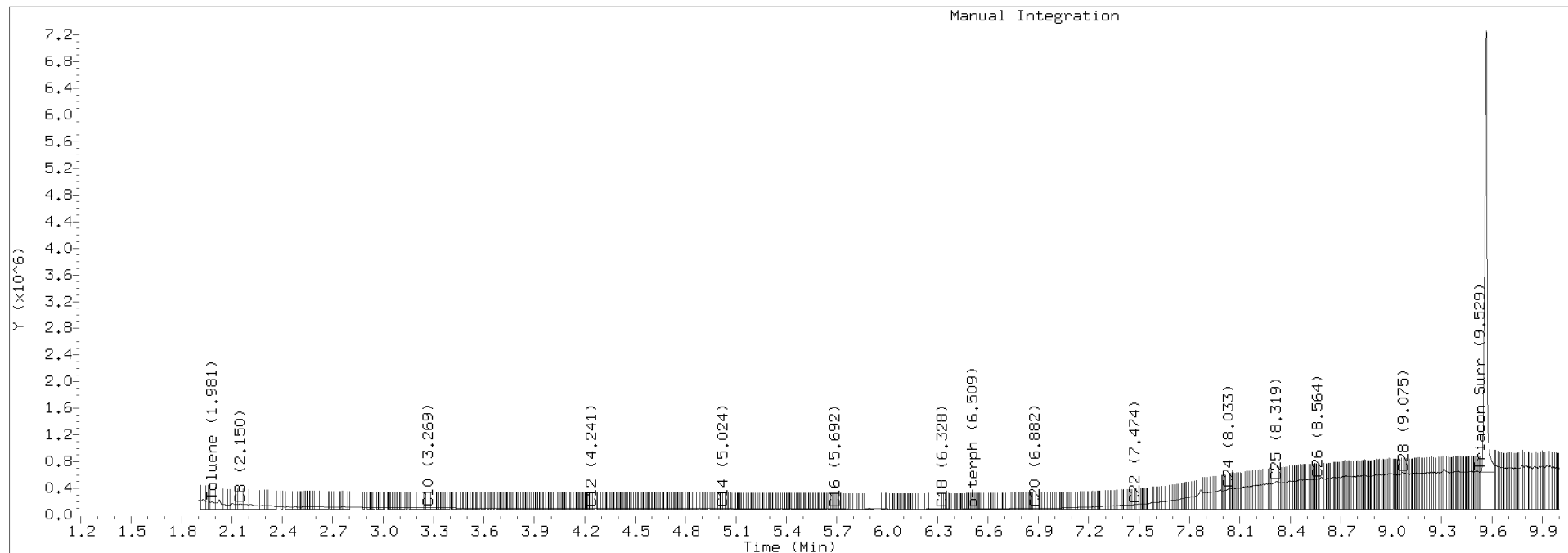
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0208.D Injection: 02-JUN-2020 09:56

Lab ID:SIF0018-CAL4

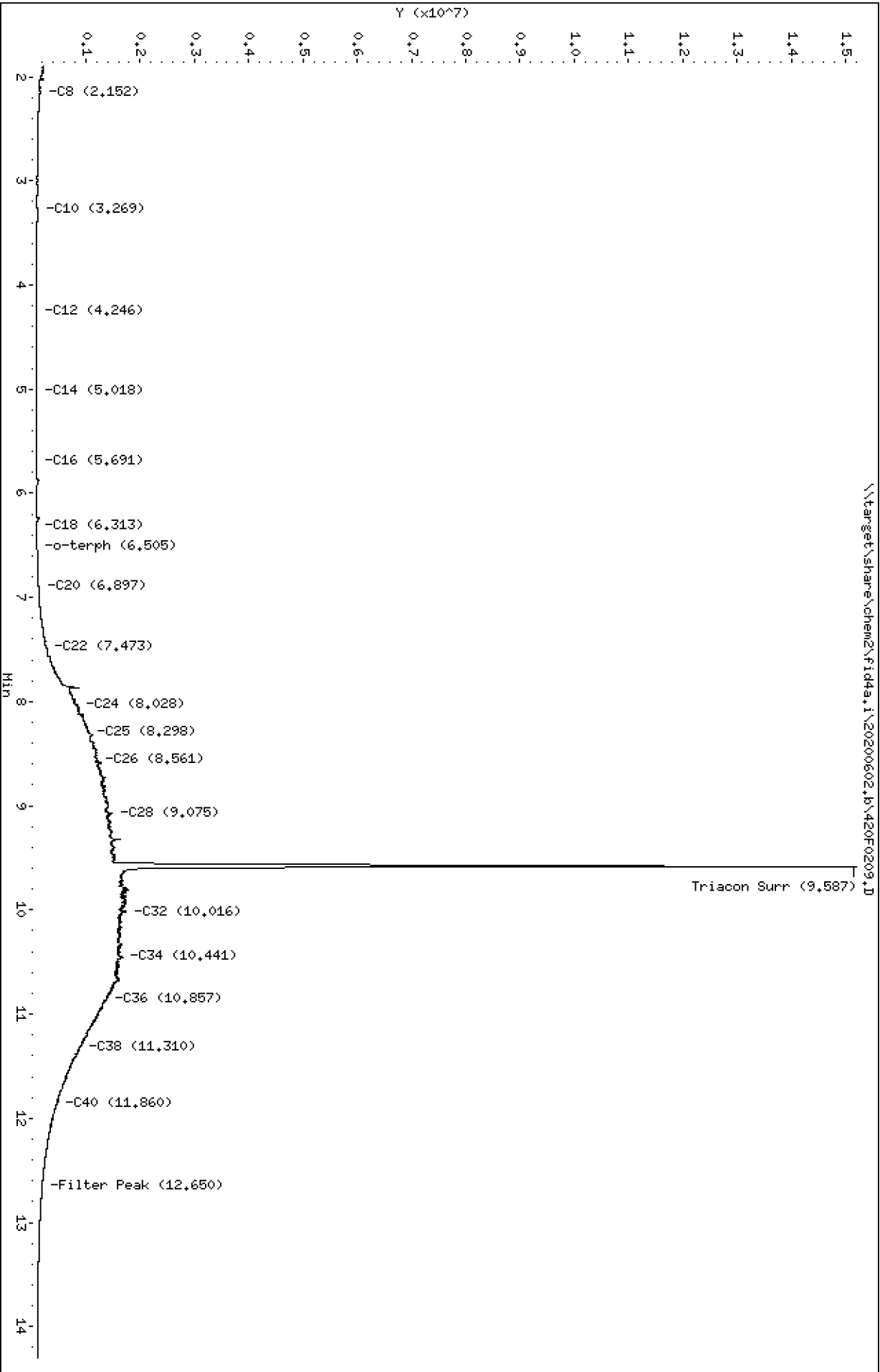


Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0209.D
Date: 02-JUN-2020 10:16
Client ID:
Sample Info: SIF0018-CAL5

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0209.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL5
Client ID:
Injection: 02-JUN-2020 10:16
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

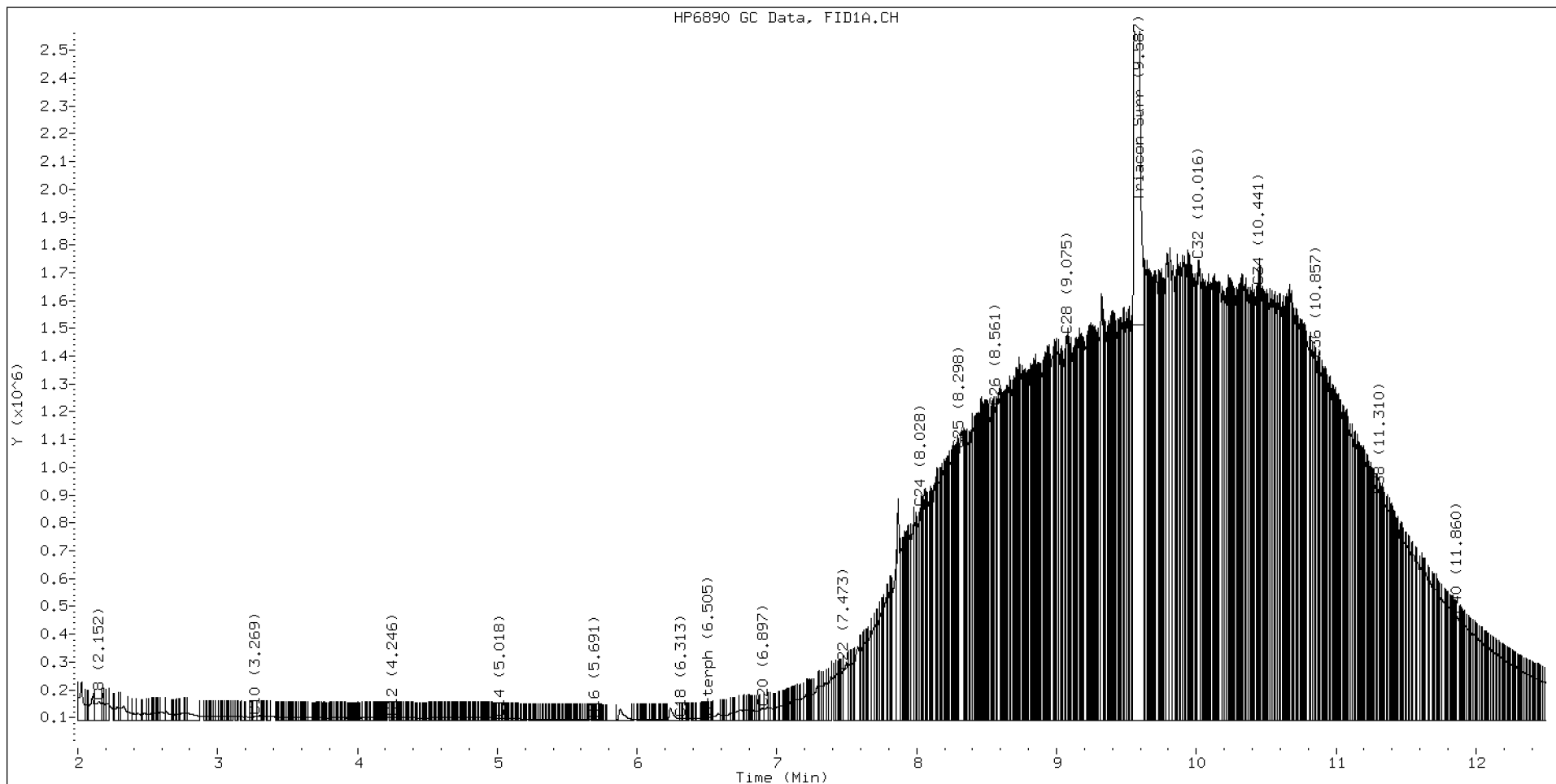
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.004	67731	187221	WATPHD	(C12-C24)	20822485	130.7
C10	3.269	0.000	15304	22992	WATPHM	(C24-C38)	252817754	2499.0
C12	4.246	0.002	8746	2596	AK102	(C10-C25)	30167989	154.3
C14	5.018	-0.004	7386	6763	AK103	(C25-C36)	216864710	2962.4
C16	5.691	0.003	1016	400	OR.DIES	(C10-C28)	91347766	466.1
C18	6.313	0.015	5888	3404				
C20	6.897	0.009	42706	72168	JET-A	(C10-C18)	1226841	7.3
C22	7.473	0.006	175100	153872				
C24	8.028	-0.001	763007	660412				
C25	8.298	-0.003	971912	386849				
C26	8.561	-0.004	1127303	613889				
C28	9.075	-0.002	1382437	951882				
C32	10.016	0.004	1653735	2165722				
C34	10.441	-0.000	1559614	615531				
Filter Peak	12.650	-0.001	105709	42002	CREOSOT	(C12-C22)	4802696	116.5
C36	10.857	0.002	1298073	1024006				
C38	11.310	0.001	808749	281747				
C40	11.860	-0.001	376098	494366				
o-terph	6.505	-0.001	10128	3504				
Triacon Surr	9.587	0.006	13686611	17883640	NAS DIES	(C10-C24)	21349343	109.4

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	3504	0.0
Triacontane	17883640	120.5 M

M Indicates the peak was manually integrated

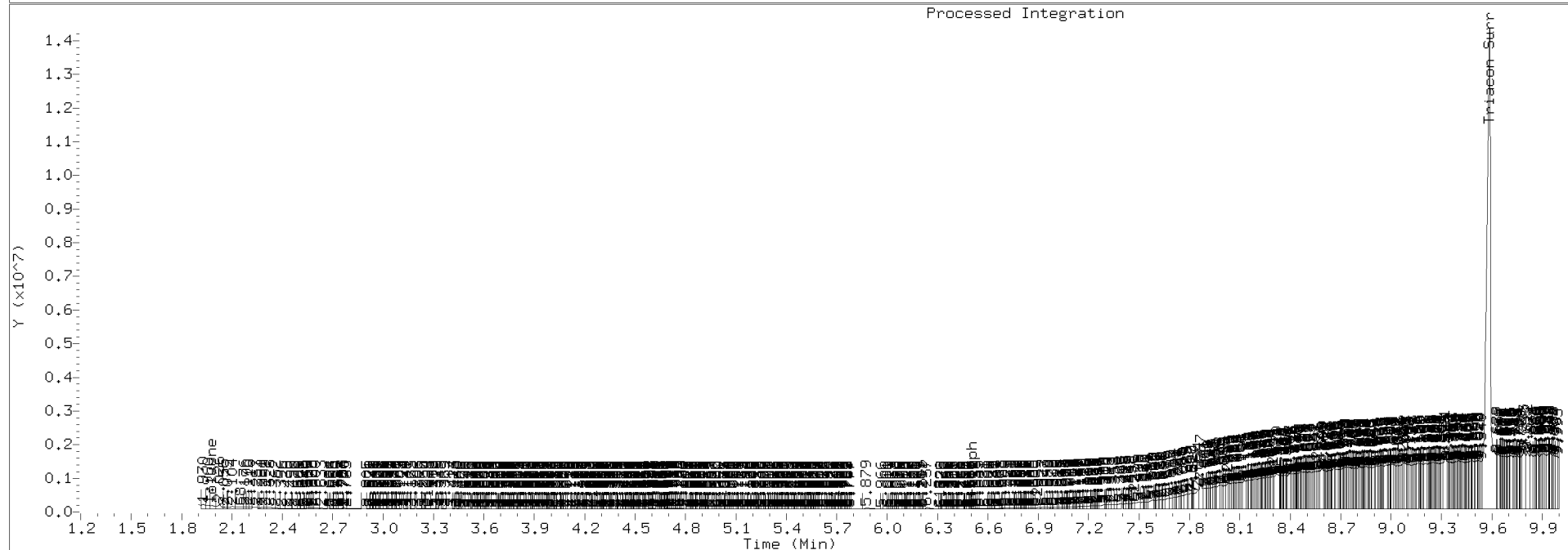
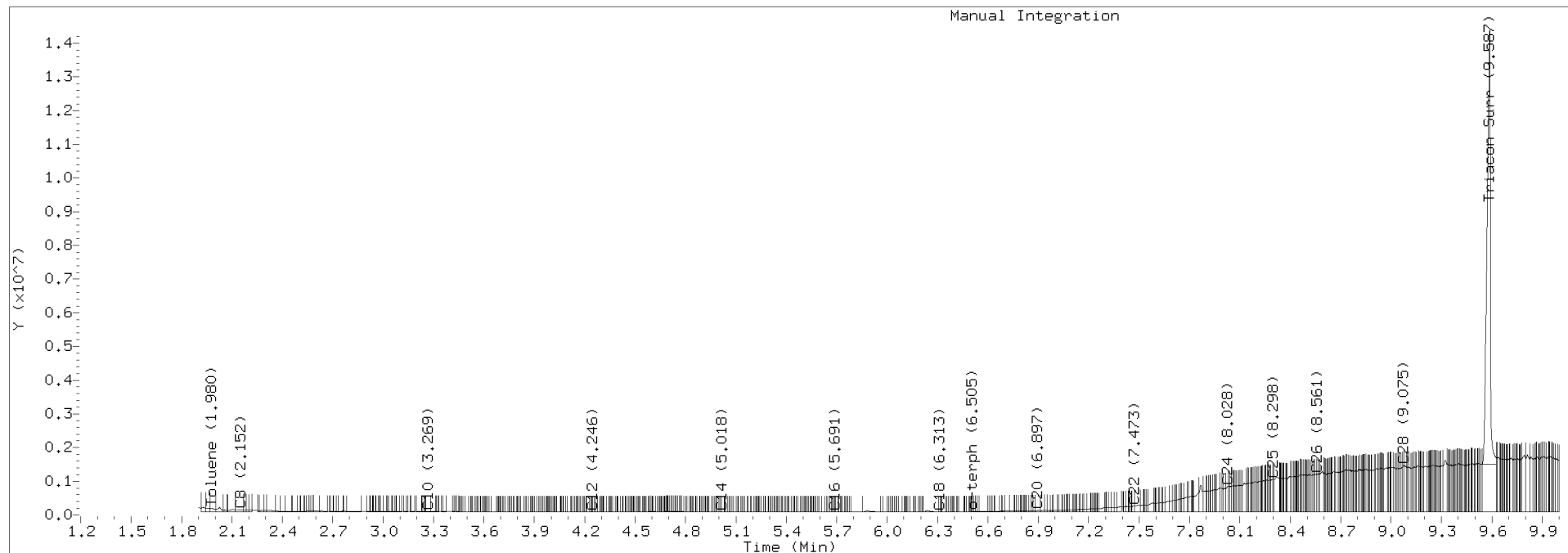
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0209.D Injection: 02-JUN-2020 10:16

Lab ID:SIF0018-CAL5



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0210.D

Date : 02-JUN-2020 10:36

Client ID:

Sample Info: SIF0018-CAL6

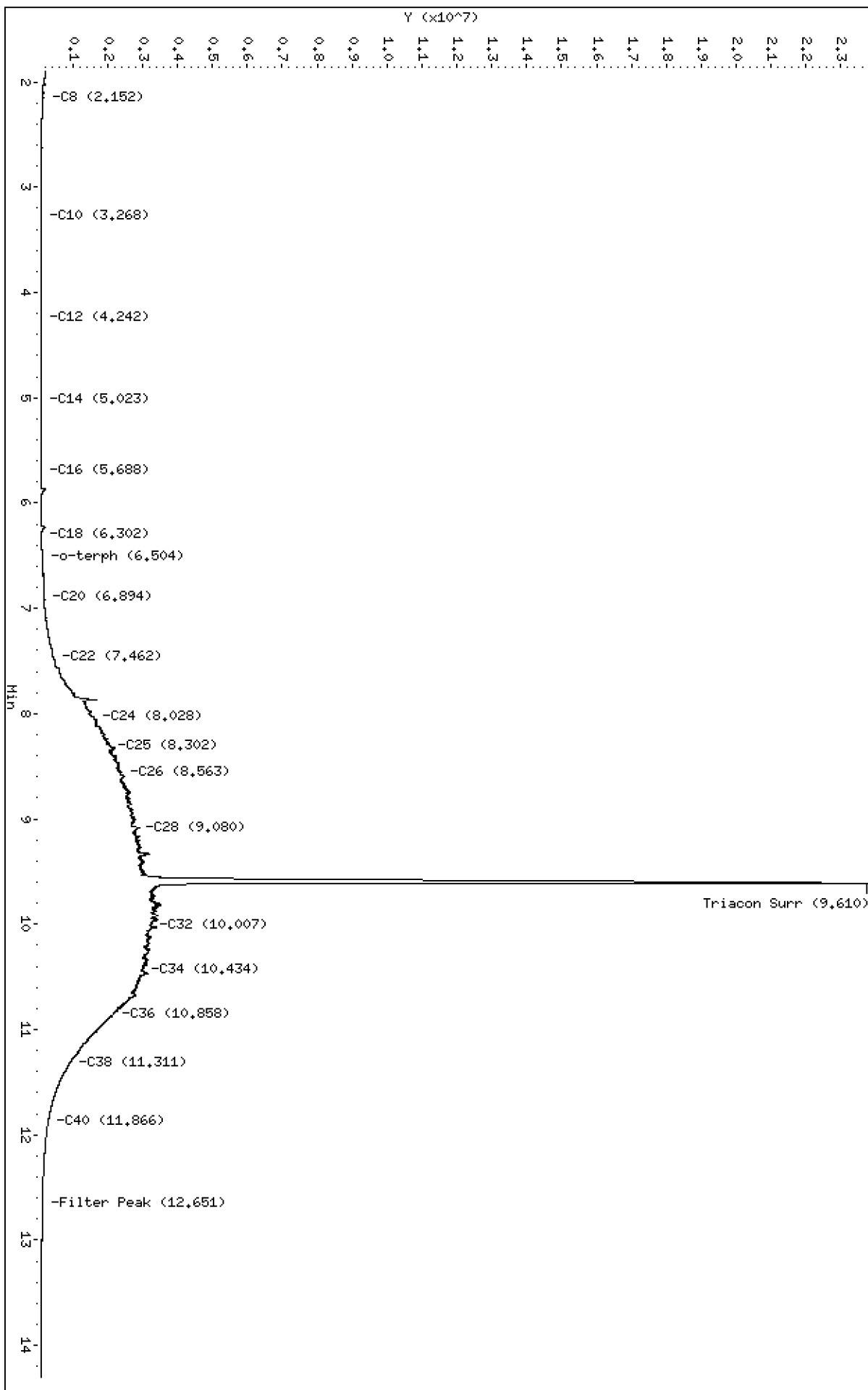
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200602_b\420F0210.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0210.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-CAL6
Client ID:
Injection: 02-JUN-2020 10:36
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

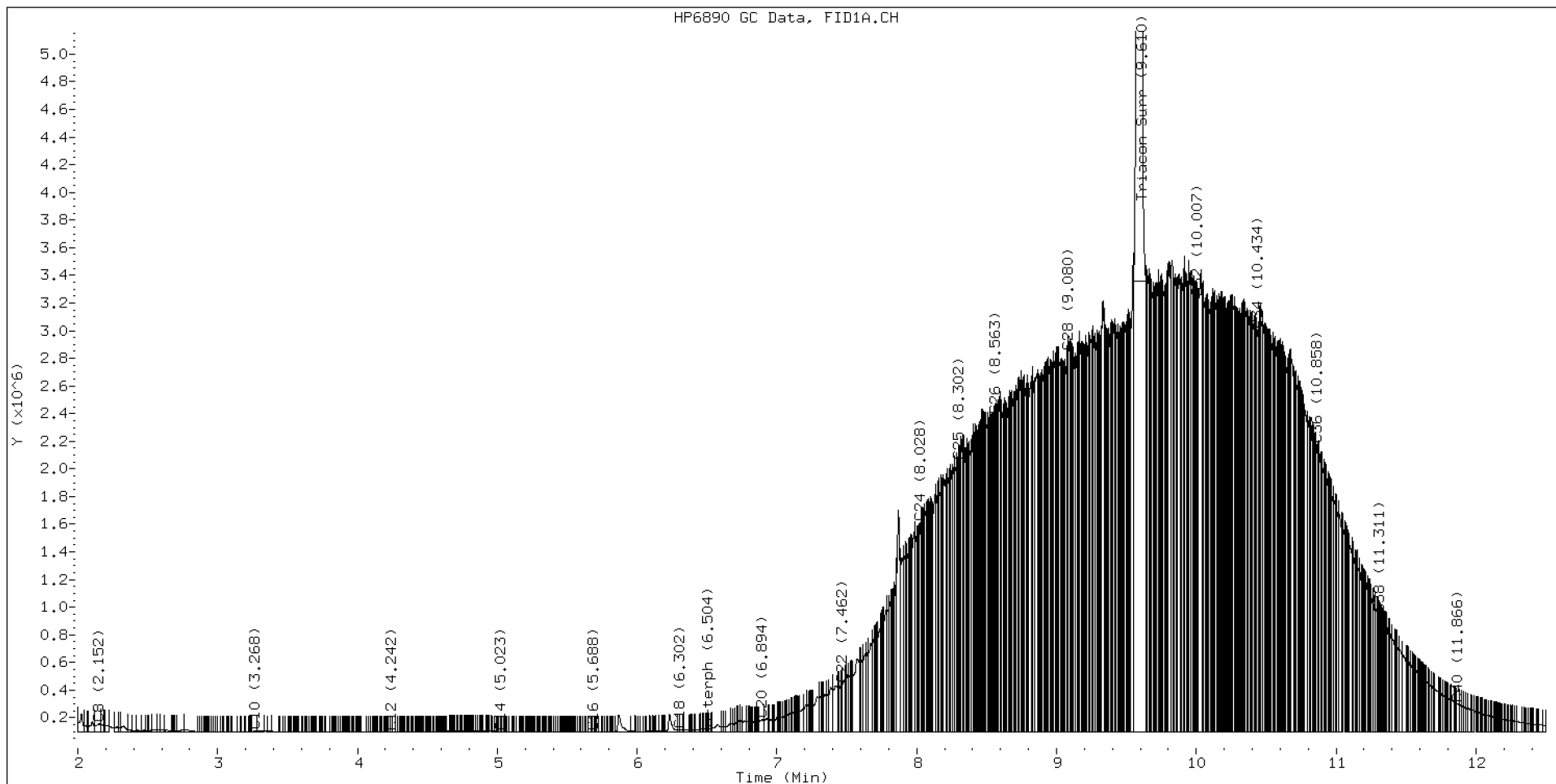
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.004	59759	152130	WATPHD	(C12-C24)	42097067	264.2
C10	3.268	-0.000	10906	13309	WATPHM	(C24-C38)	483979490	4784.0
C12	4.242	-0.002	3837	2144	AK102	(C10-C25)	60128324	307.6
C14	5.023	0.001	5263	2575	AK103	(C25-C36)	432878704	5913.1
C16	5.688	-0.000	5016	3894	OR.DIES	(C10-C28)	184154148	939.6
C18	6.302	0.004	14889	15133				
C20	6.894	0.006	90358	170510	JET-A	(C10-C18)	1118951	6.7
C22	7.462	-0.004	348837	170286				
C24	8.028	-0.001	1514675	949832				
C25	8.302	0.001	1962082	1344009				
C26	8.563	-0.002	2289043	1251416				
C28	9.080	0.003	2750480	953261				
C32	10.007	-0.005	3143736	1251600				
C34	10.434	-0.008	2911308	1732712				
Filter Peak	12.651	-0.000	36927	34124	CREOSOT	(C12-C22)	10157950	246.3
C36	10.858	0.003	2076086	2039708				
C38	11.311	0.001	852892	501049				
C40	11.866	0.004	208322	233733				
o-terph	6.504	-0.003	25014	7430				
Triacon Surr	9.610	0.029	20463550	34084629	NAS DIES	(C10-C24)	42231077	216.4

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	7430	0.0
Triacontane	34084629	229.7 M

M Indicates the peak was manually integrated

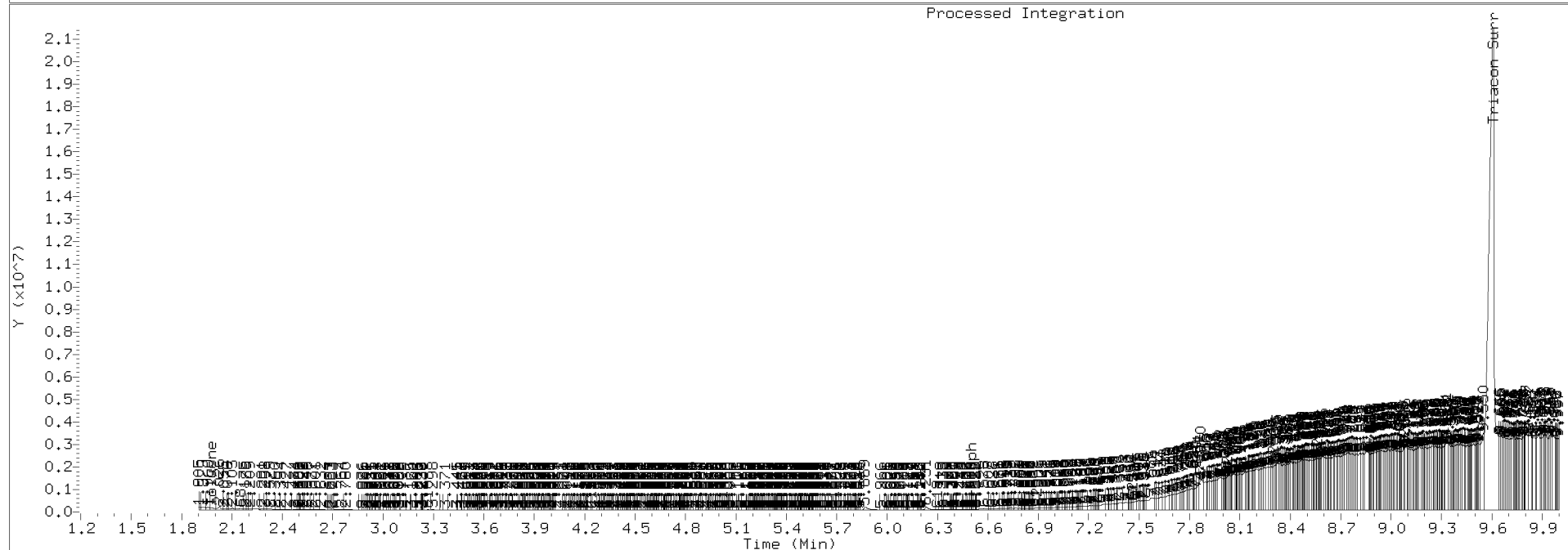
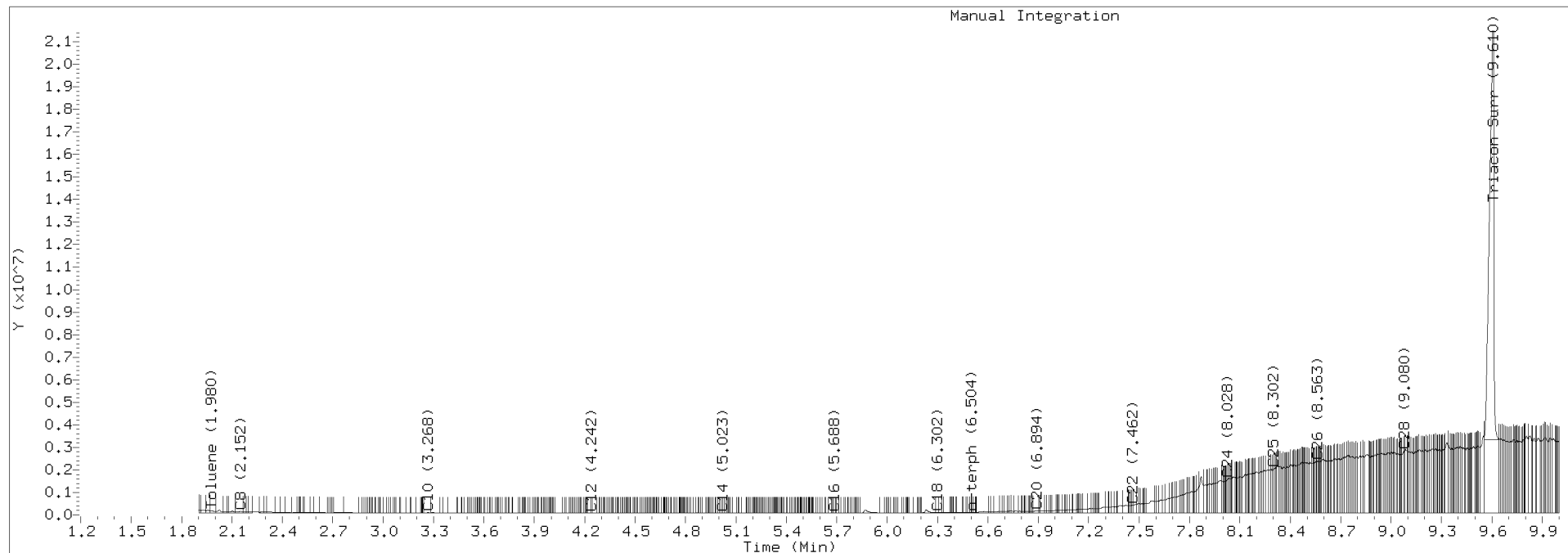
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0210.D Injection: 02-JUN-2020 10:36

Lab ID:SIF0018-CAL6



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0211.D

Date : 02-JUN-2020 10:55

Client ID:

Sample Info: SIF0018-SCV1

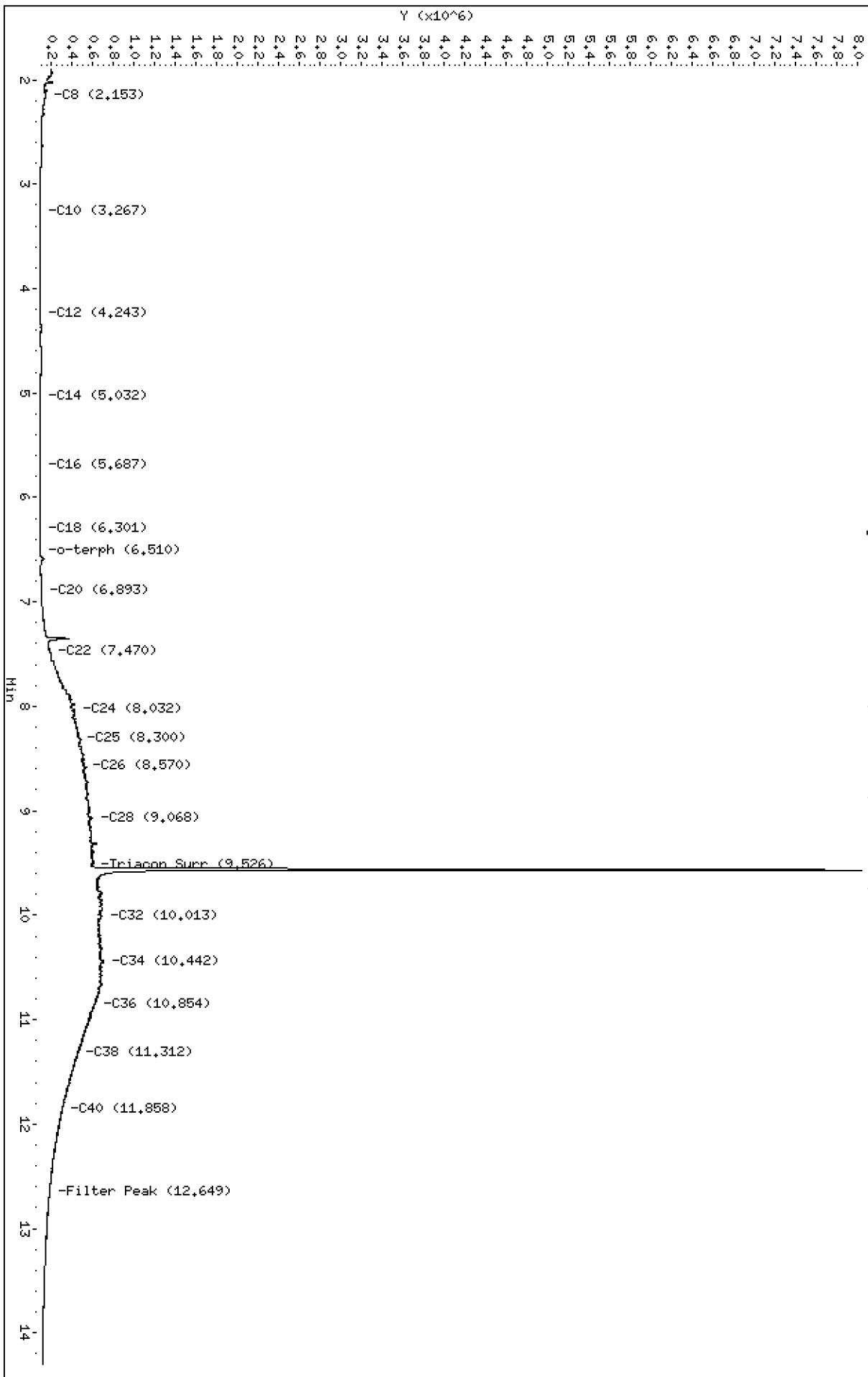
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200602_b\420F0211.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0211.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-SCV1
Client ID:
Injection: 02-JUN-2020 10:55
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

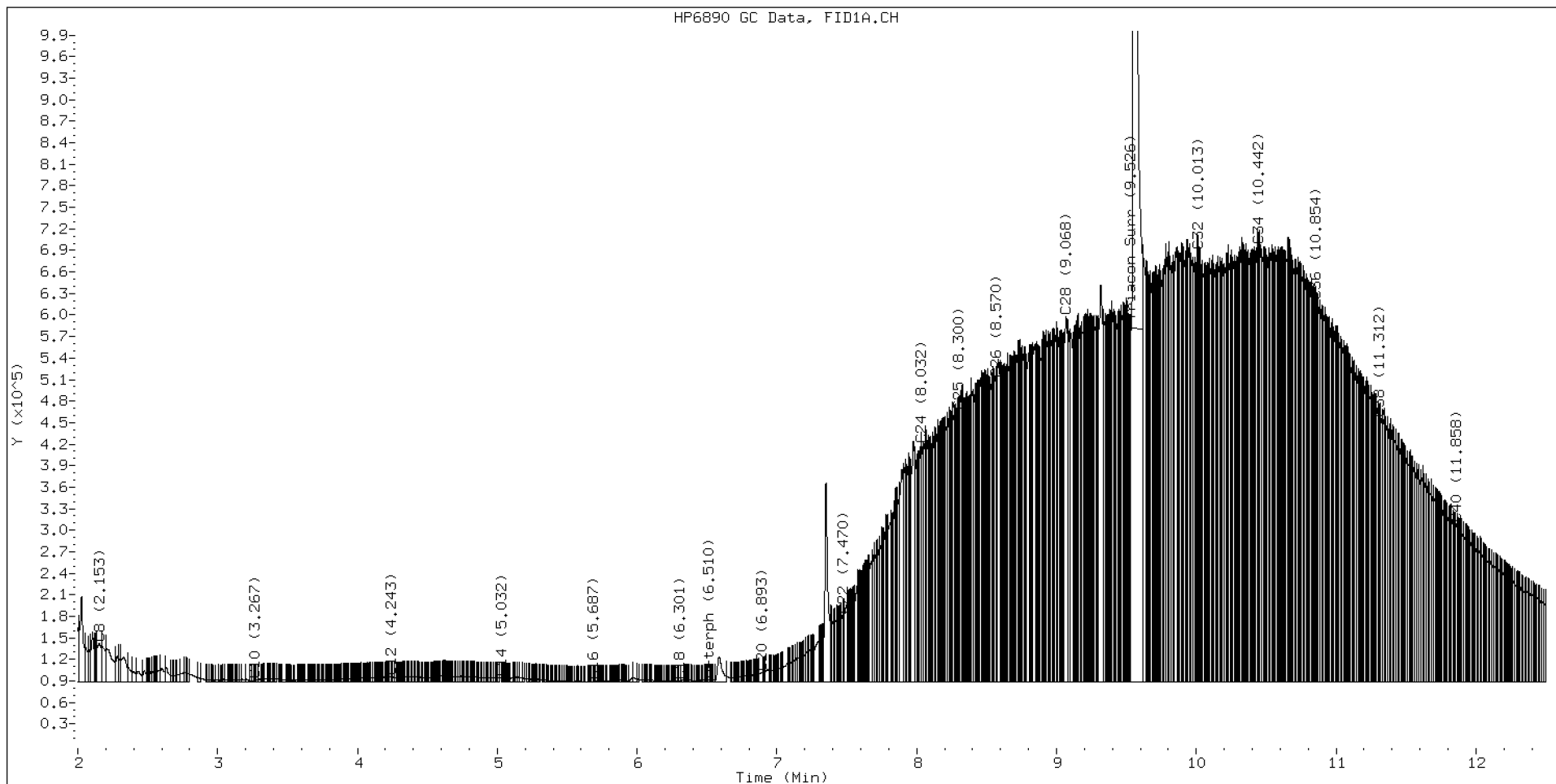
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.153	-0.003	53793	112352	WATPHD	(C12-C24)	10130617	63.6
C10	3.267	-0.001	3184	1798	WATPHM	(C24-C38)	96339891	952.3
C12	4.243	-0.001	6309	3433	AK102	(C10-C25)	13696411	70.1
C14	5.032	0.010	5041	1965	AK103	(C25-C36)	81704578	1116.1
C16	5.687	-0.002	418	225	OR.DIES	(C10-C28)	36730595	187.4
C18	6.301	0.002	1584	1331				
C20	6.893	0.005	13152	18749	JET-A	(C10-C18)	637720	3.8
C22	7.470	0.003	92369	58795				
C24	8.032	0.002	330875	354349				
C25	8.300	-0.001	376891	169098				
C26	8.570	0.005	421264	147085				
C28	9.068	-0.008	508527	807405				
C32	10.013	0.001	600890	237363				
C34	10.442	0.001	608272	242751				
Filter Peak	12.649	-0.003	94447	119849	CREOSOT	(C12-C22)	2566539	62.2
C36	10.854	-0.001	530087	263622				
C38	11.312	0.002	366594	183102				
C40	11.858	-0.003	220172	173259				
o-terph	6.510	0.003	2949	1966				
Triacon Surr	9.567	-0.013	7460477	7161172	NAS DIES	(C10-C24)	10346316	53.0

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	1966	0.0
Triacontane	7161172	48.3 M

M Indicates the peak was manually integrated

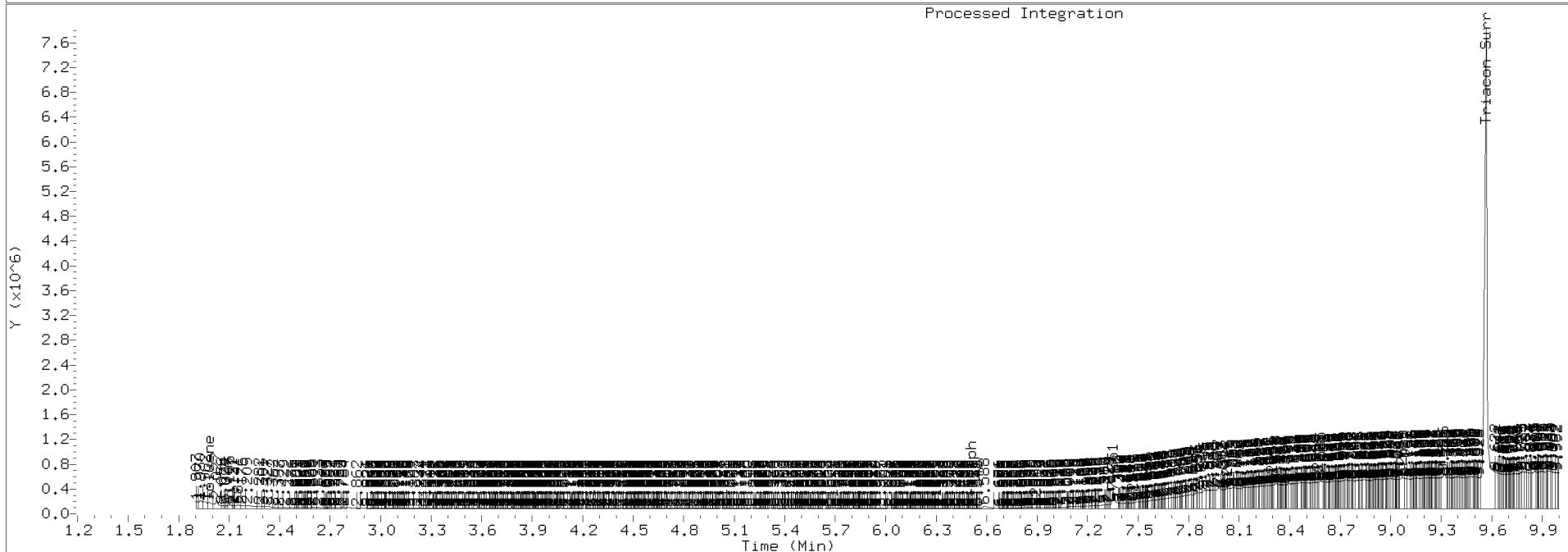
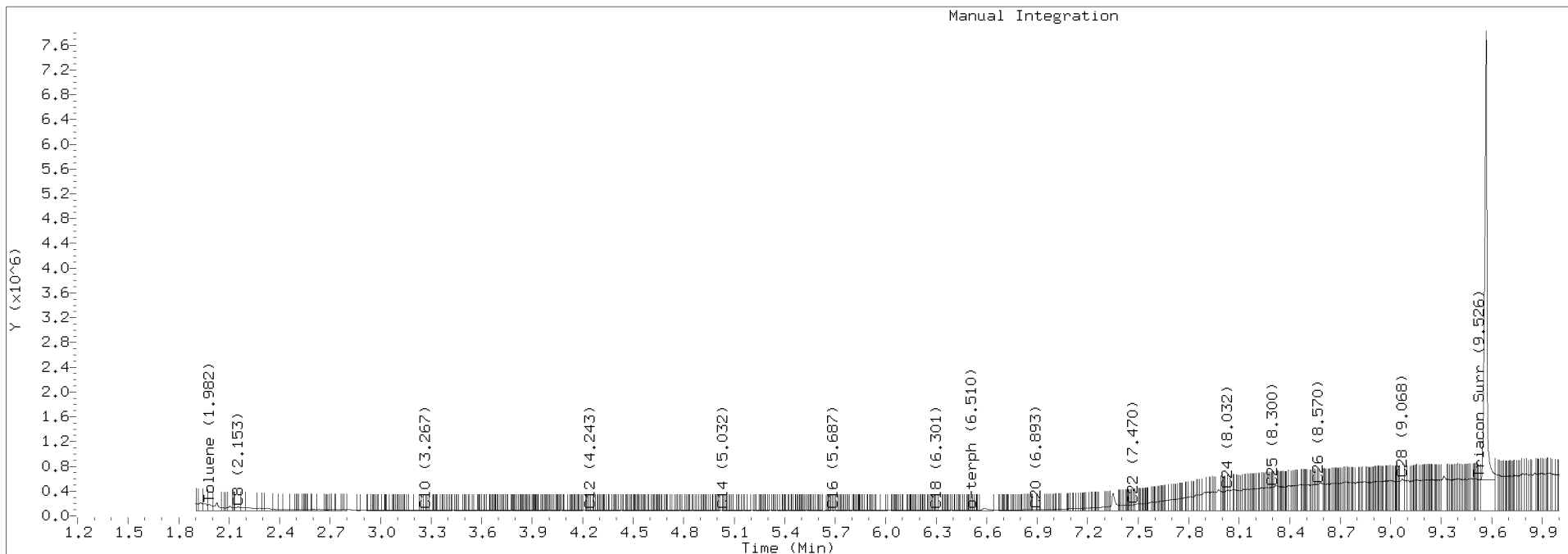
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0211.D Injection: 02-JUN-2020 10:55

Lab ID:SIF0018-SCV1



GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

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1	10-AUG-2020	08:11	420H1001.D	1	RINSE	
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3	10-AUG-2020	08:50	420H1003.D	1	SEQ-IBL1	
4	10-AUG-2020	09:10	420H1004.D	1	SEQ-IBL2	
5	10-AUG-2020	09:30	420H1005.D	1	SEQ-ICV1	
6	10-AUG-2020	09:49	420H1006.D	1	SEQ-ICV2	
7	10-AUG-2020	10:09	420H1007.D	1	I006965	
8	10-AUG-2020	11:44	420H1008.D	1	SEQ-CAL1	
9	10-AUG-2020	12:03	420H1009.D	1	SEQ-CAL2	
10	10-AUG-2020	12:23	420H1010.D	1	SEQ-CAL3	
11	10-AUG-2020	12:43	420H1011.D	1	SEQ-CAL4	
12	10-AUG-2020	13:02	420H1012.D	1	SEQ-CAL5	
13	10-AUG-2020	13:22	420H1013.D	1	SEQ-CAL6	
14	10-AUG-2020	15:15	420H1014.D	1	BIH0129-BLK1	
15	10-AUG-2020	15:34	420H1015.D	1	BIH0129-BS1	
16	10-AUG-2020	15:54	420H1016.D	1	20H0053-01	
17	10-AUG-2020	16:14	420H1017.D	1	20H0058-01	
18	10-AUG-2020	16:34	420H1018.D	1	20H0058-02	
19	10-AUG-2020	16:53	420H1019.D	1	20H0058-03	
20	10-AUG-2020	17:13	420H1020.D	1	20H0060-01	
21	10-AUG-2020	17:33	420H1021.D	1	20H0060-02	
22	10-AUG-2020	17:52	420H1022.D	1	20H0060-03	
23	10-AUG-2020	18:12	420H1023.D	1	BIH0058-BLK1	
24	10-AUG-2020	18:32	420H1024.D	1	BIH0058-BS1	
25	10-AUG-2020	18:52	420H1025.D	1	20G0289-03	
26	10-AUG-2020	19:11	420H1026.D	1	20G0291-01	
27	10-AUG-2020	19:31	420H1027.D	1	SEQ-CCV1	
28	10-AUG-2020	19:51	420H1028.D	1	SEQ-CCV2	
29	10-AUG-2020	20:11	420H1029.D	1	SEQ-ICV3	
30	10-AUG-2020	20:30	420H1030.D	1	BIH0100-BLK1	
31	10-AUG-2020	20:50	420H1031.D	1	BIH0100-BS1	
32	10-AUG-2020	21:10	420H1032.D	1	BIH0100-BSD1	
33	10-AUG-2020	21:29	420H1033.D	1	20G0287-01	
34	10-AUG-2020	21:49	420H1034.D	1	BIH0100-MS1	
35	10-AUG-2020	22:09	420H1035.D	1	BIH0100-MSD1	
36	10-AUG-2020	22:28	420H1036.D	1	BIH0113-BLK1	
37	10-AUG-2020	22:48	420H1037.D	1	BIH0113-BS1	
38	10-AUG-2020	23:08	420H1038.D	1	BIH0113-BSD1	
39	10-AUG-2020	23:27	420H1039.D	1	20H0047-01	
40	10-AUG-2020	23:47	420H1040.D	1	20H0047-02	
41	11-AUG-2020	00:06	420H1041.D	1	20H0047-03	
42	11-AUG-2020	00:26	420H1042.D	1	SEQ-CCV3	
43	11-AUG-2020	00:46	420H1043.D	1	SEQ-CCV4	
44	11-AUG-2020	01:05	420H1044.D	1	SEQ-CCV5	
45	11-AUG-2020	01:25	420H1045.D	1	BIH0166-BLK1	
46	11-AUG-2020	01:44	420H1046.D	1	BIH0166-BS1	
47	11-AUG-2020	02:04	420H1047.D	1	BIH0166-BSD1	
48	11-AUG-2020	02:23	420H1048.D	1	20H0082-01	
49	11-AUG-2020	02:43	420H1049.D	1	BIH0166-MS1	
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GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
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53	11-AUG-2020	04:01	420H1053.D	1	20H0082-04	
54	11-AUG-2020	04:21	420H1054.D	1	20H0082-05	
55	11-AUG-2020	04:40	420H1055.D	1	20H0082-06	
56	11-AUG-2020	05:00	420H1056.D	1	20H0082-07	
57	11-AUG-2020	05:19	420H1057.D	1	20H0082-08	
58	11-AUG-2020	05:39	420H1058.D	1	20H0082-09	
59	11-AUG-2020	05:58	420H1059.D	1	SEQ-CCV6	
60	11-AUG-2020	06:18	420H1060.D	1	SEQ-CCV7	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 10-AUG-2020

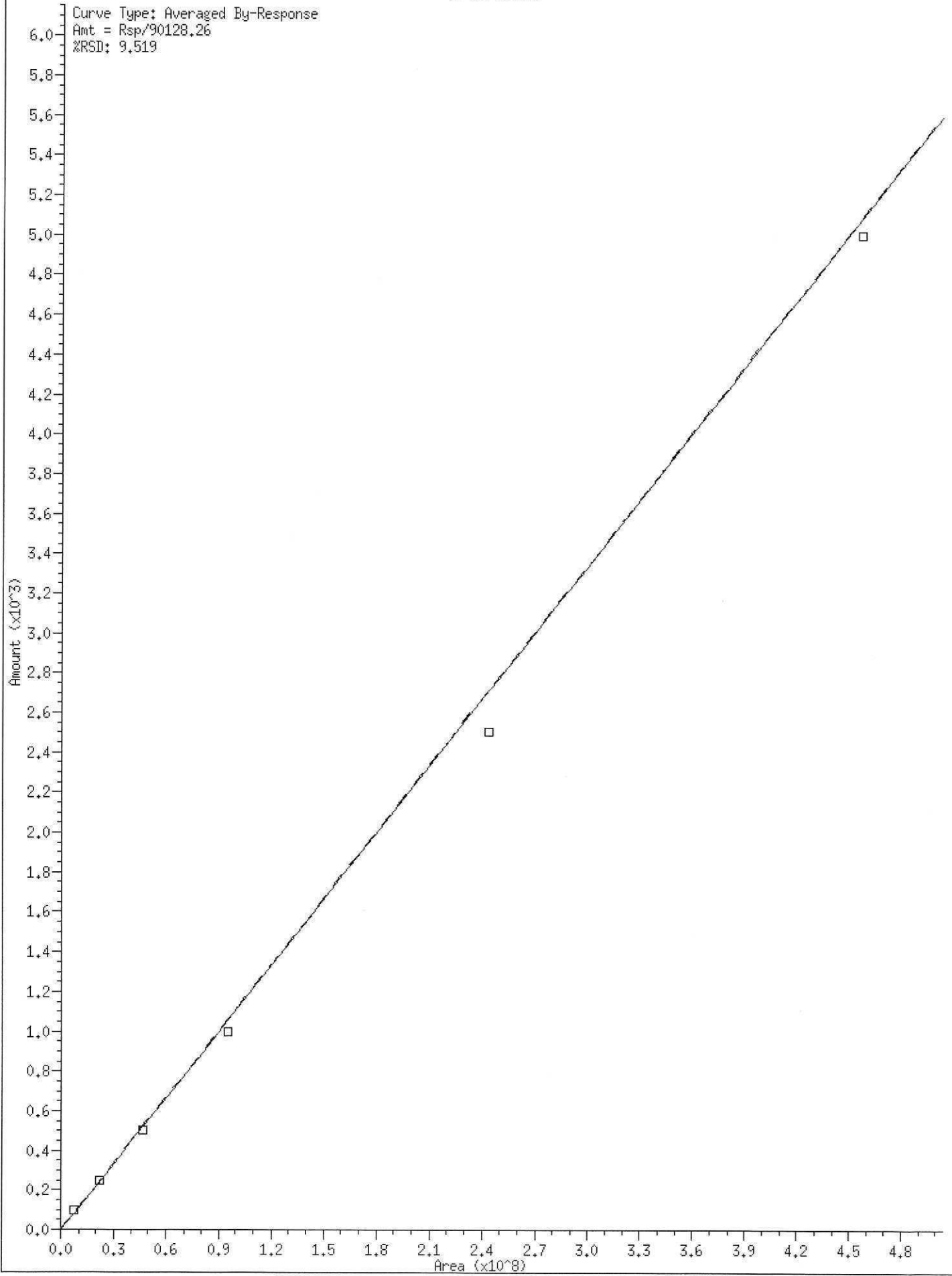
Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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0830	420H1002.D	RINSE		1	NO MANUAL INTEGRATION
0850	420H1003.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0910	420H1004.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
0930	420H1005.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0949	420H1006.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
1009	420H1007.D	I006965		1	NO MANUAL INTEGRATION
1144	420H1008.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1203	420H1009.D	SEQ-CAL2		1	o-terph,
1223	420H1010.D	SEQ-CAL3		1	o-terph,
1243	420H1011.D	SEQ-CAL4		1	o-terph,
1302	420H1012.D	SEQ-CAL5		1	o-terph,
1322	420H1013.D	SEQ-CAL6		1	o-terph,

Security Status Report

Date: 10-Aug-2020 15:38

420H1001.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1002.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1003.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1004.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1005.D	Data Locked	christopher, 10-Aug-2020 15:38
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420H1007.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1008.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1009.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1010.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1011.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1012.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1013.D	Data Locked	christopher, 10-Aug-2020 15:38

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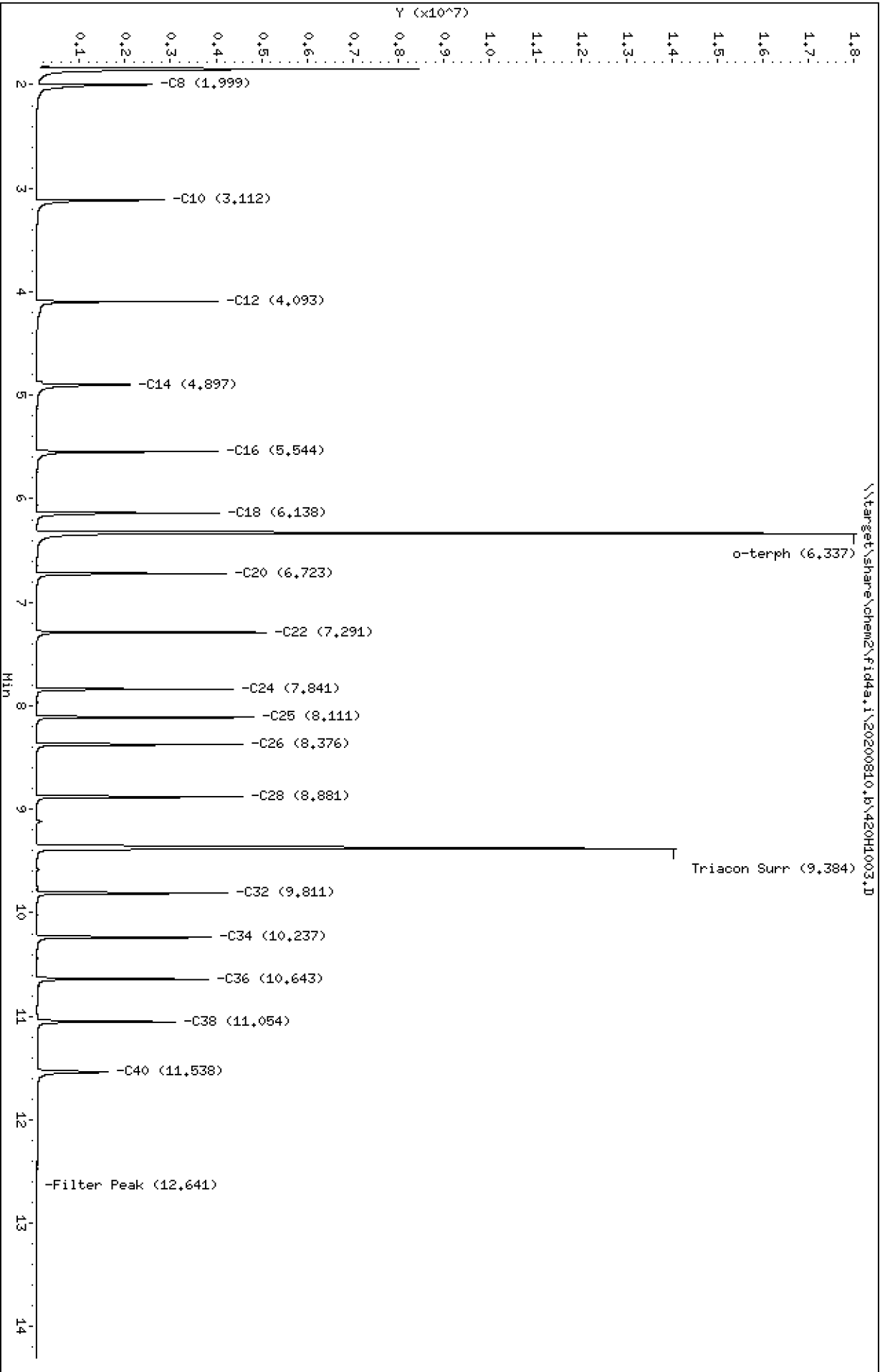


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Date: 10-AUG-2020 08:50
Client ID:
Sample Info: SEQ-IBL1

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1003.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL1
Client ID:
Injection: 10-AUG-2020 08:50
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

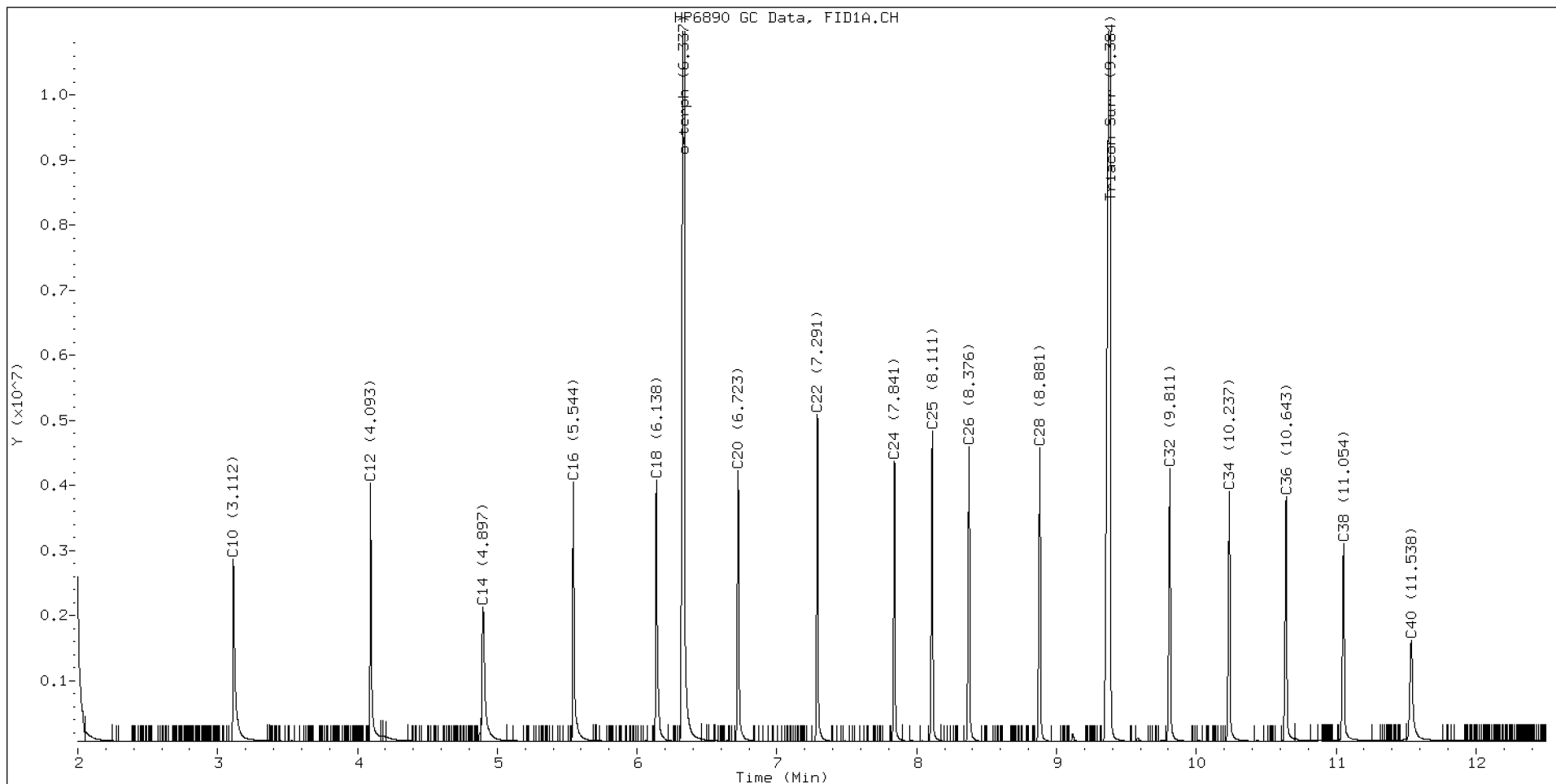
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.999	0.000	2540721	3264726	WATPHD	(C12-C24)	22306304	140.0
C10	3.112	0.000	2810194	3442755	WATPHM	(C24-C38)	26298631	260.0
C12	4.093	0.000	3978222	2976186	AK102	(C10-C25)	29087658	148.8
C14	4.897	0.000	2063035	3357028	AK103	(C25-C36)	22563075	308.2
C16	5.544	0.000	3983822	3466435	OR.DIES	(C10-C28)	40321674	205.7
C18	6.138	0.000	4016286	3502383				
C20	6.723	0.000	4164481	3619197	JET-A	(C10-C18)	18085569	107.7
C22	7.291	0.000	5031917	3645250				
C24	7.841	0.000	4315294	3204971				
C25	8.111	0.000	4771856	3679162				
C26	8.376	0.000	4526404	3716371				
C28	8.881	0.000	4514102	3764243				
C32	9.811	0.000	4195592	3775835				
C34	10.237	0.000	3847931	3544071				
Filter Peak	12.641	0.000	14794	6644	CREOSOT	(C12-C22)	19024422	211.1
C36	10.643	0.000	3772310	3456667				
C38	11.054	0.000	3044407	3312686				
C40	11.538	0.000	1563052	2782086				
o-terph	6.337	0.000	17989088	19759793				
Triacon Surr	9.384	0.000	14032526	21215524	NAS DIES	(C10-C24)	28998485	148.6

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	19759793	96.5
Triacontane	21215524	143.0

M Indicates the peak was manually integrated

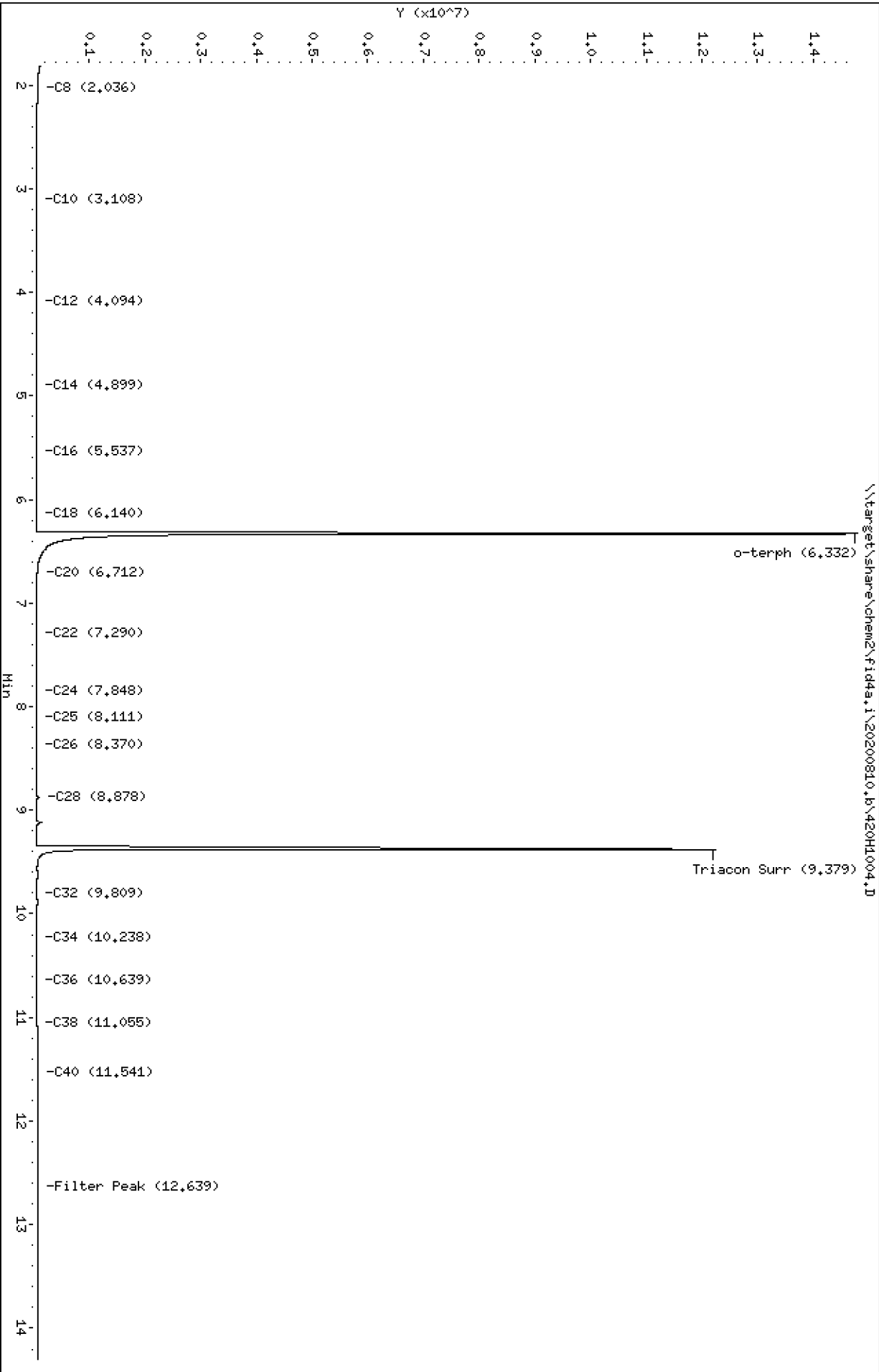
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200810_b\420H1004.D
Date: 10-AUG-2020 09:10
Client ID:
Sample Info: SEQ-IBL2

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1004.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-IBL2
Client ID:
Injection: 10-AUG-2020 09:10
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

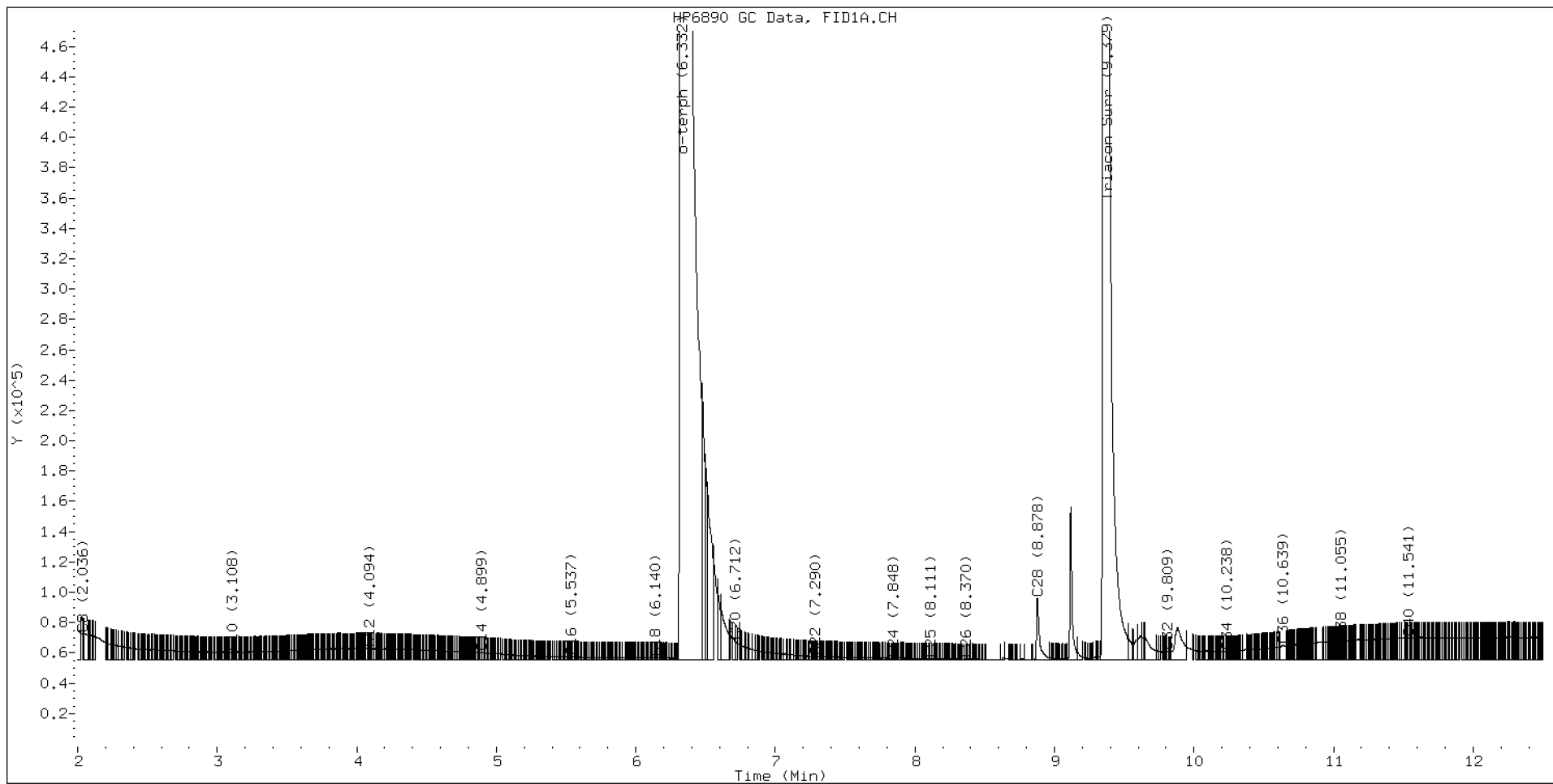
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.036	0.037	17008	10175	WATPHD	(C12-C24)	1331558	8.4
C10	3.108	-0.005	5021	2233	WATPHM	(C24-C38)	996053	9.8
C12	4.094	0.001	7426	3680	AK102	(C10-C25)	1724501	8.8
C14	4.899	0.001	4565	910	AK103	(C25-C36)	714743	9.8
C16	5.537	-0.007	2052	1468	OR.DIES	(C10-C28)	1799717	9.2
C18	6.140	0.002	1105	606				
C20	6.712	-0.011	12436	11107	JET-A	(C10-C18)	777990	4.6
C22	7.290	-0.000	2229	1416				
C24	7.848	0.006	1012	430				
C25	8.111	-0.000	658	573				
C26	8.370	-0.005	358	107				
C28	8.878	-0.004	40640	60459				
C32	9.809	-0.001	5465	5260				
C34	10.238	0.000	5599	2503				
Filter Peak	12.639	-0.001	14778	9572	CREOSOT	(C12-C22)	1289747	14.3
C36	10.639	-0.005	9656	22858				
C38	11.055	0.001	12241	5462				
C40	11.541	0.003	14617	10157				
o-terph	6.332	-0.005	14738078	18875440				
Triacon Surr	9.379	-0.005	12182512	16667134	NAS DIES	(C10-C24)	1715942	8.8

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	18875440	92.2
Triacontane	16667134	112.3

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200810,b\420H1008.D
Date: 10-AUG-2020 11:44

Client ID:

Sample Info: SEQ-CALL

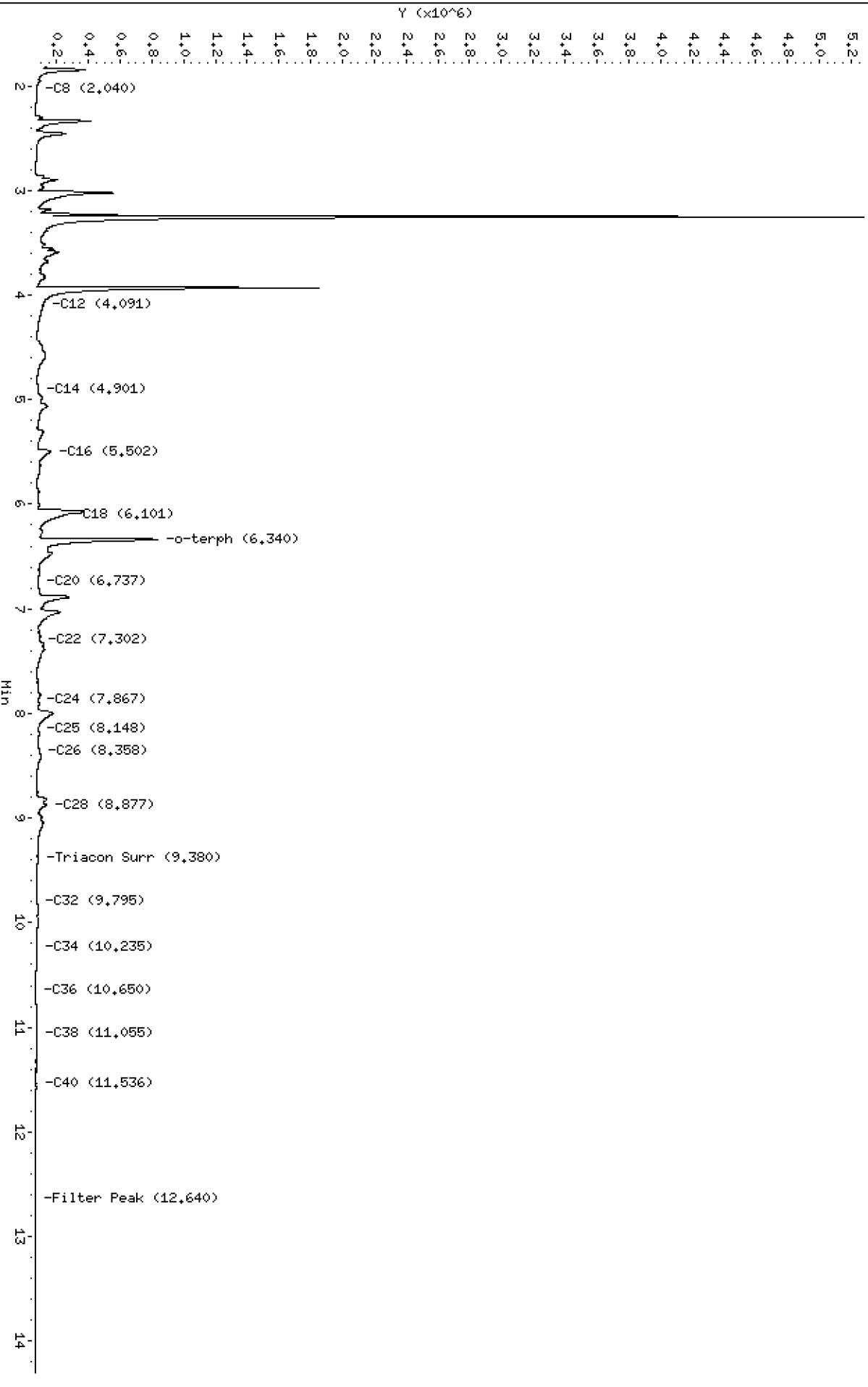
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810,b\420H1008.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1008.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL1
Client ID:
Injection: 10-AUG-2020 11:44
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

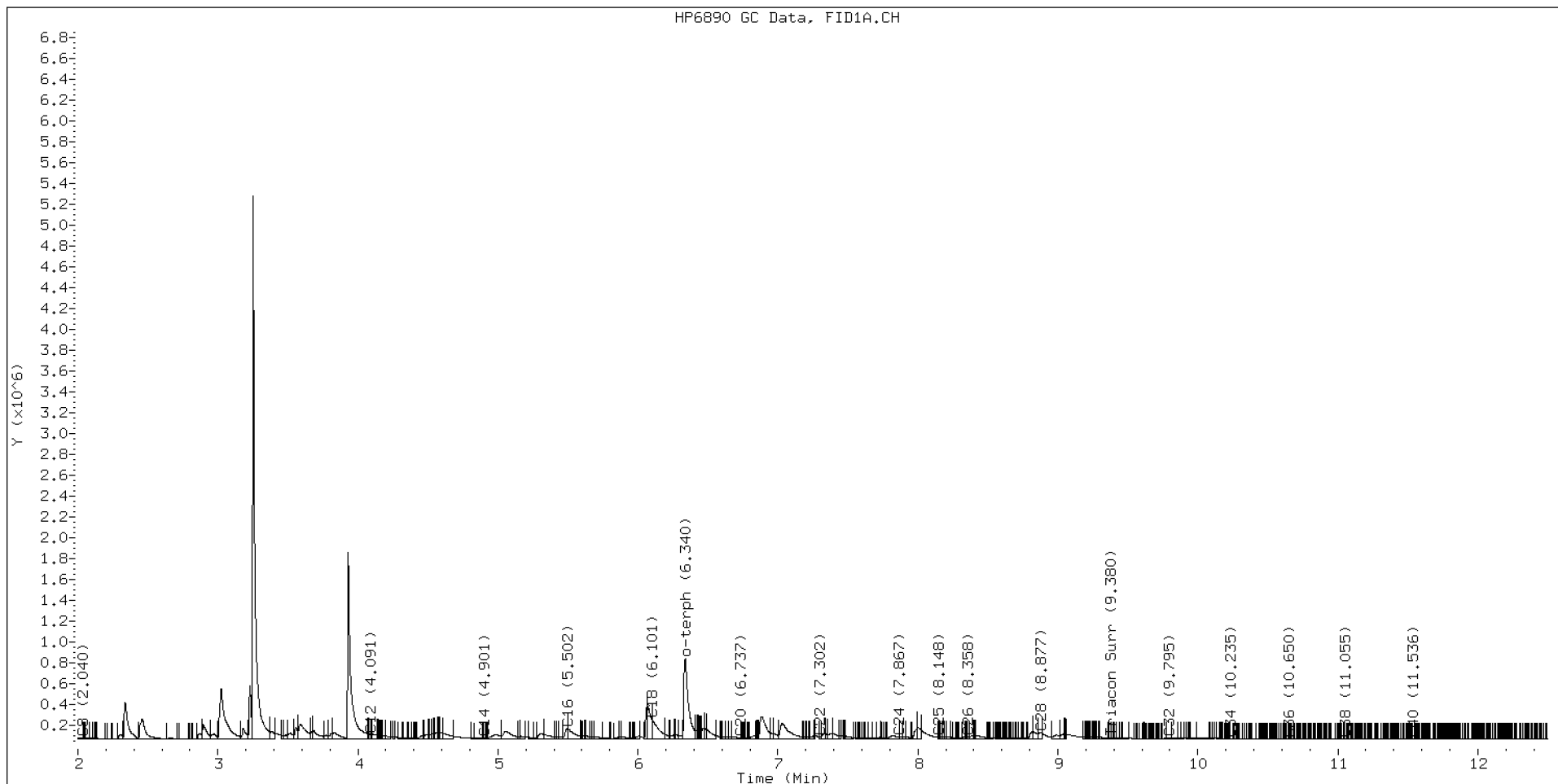
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.040	0.041	9503	2838	WATPHD	(C12-C24)	8080791	50.7
C10	----				WATPHM	(C24-C38)	2579077	25.5
C12	4.091	-0.003	48194	23669	AK102	(C10-C25)	19525938	99.9
C14	4.901	0.004	17148	14774	AK103	(C25-C36)	2056688	28.1
C16	5.502	-0.042	98467	314876	OR.DIES	(C10-C28)	20511038	104.6
C18	6.101	-0.037	189826	593277				
C20	6.737	0.014	14982	5936	JET-A	(C10-C18)	15329343	91.3
C22	7.302	0.012	27302	26565				
C24	7.867	0.026	21147	7324				
C25	8.148	0.037	19796	7876				
C26	8.358	-0.018	27281	17420				
C28	8.877	-0.004	67902	107454				
C32	9.795	-0.016	12040	22767				
C34	10.235	-0.003	7524	8634				
Filter Peak	12.640	-0.001	3106	1077	CREOSOT	(C12-C22)	7382186	81.9
C36	10.650	0.007	3324	1958				
C38	11.055	0.001	5084	2761				
C40	11.536	-0.002	4406	4074				
o-terph	6.340	0.002	772053	1761409				
Triacon Surr	9.380	-0.004	14077	10247	NAS DIES	(C10-C24)	19109345	97.9

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	1761409	8.6
Triacontane	10247	0.1

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



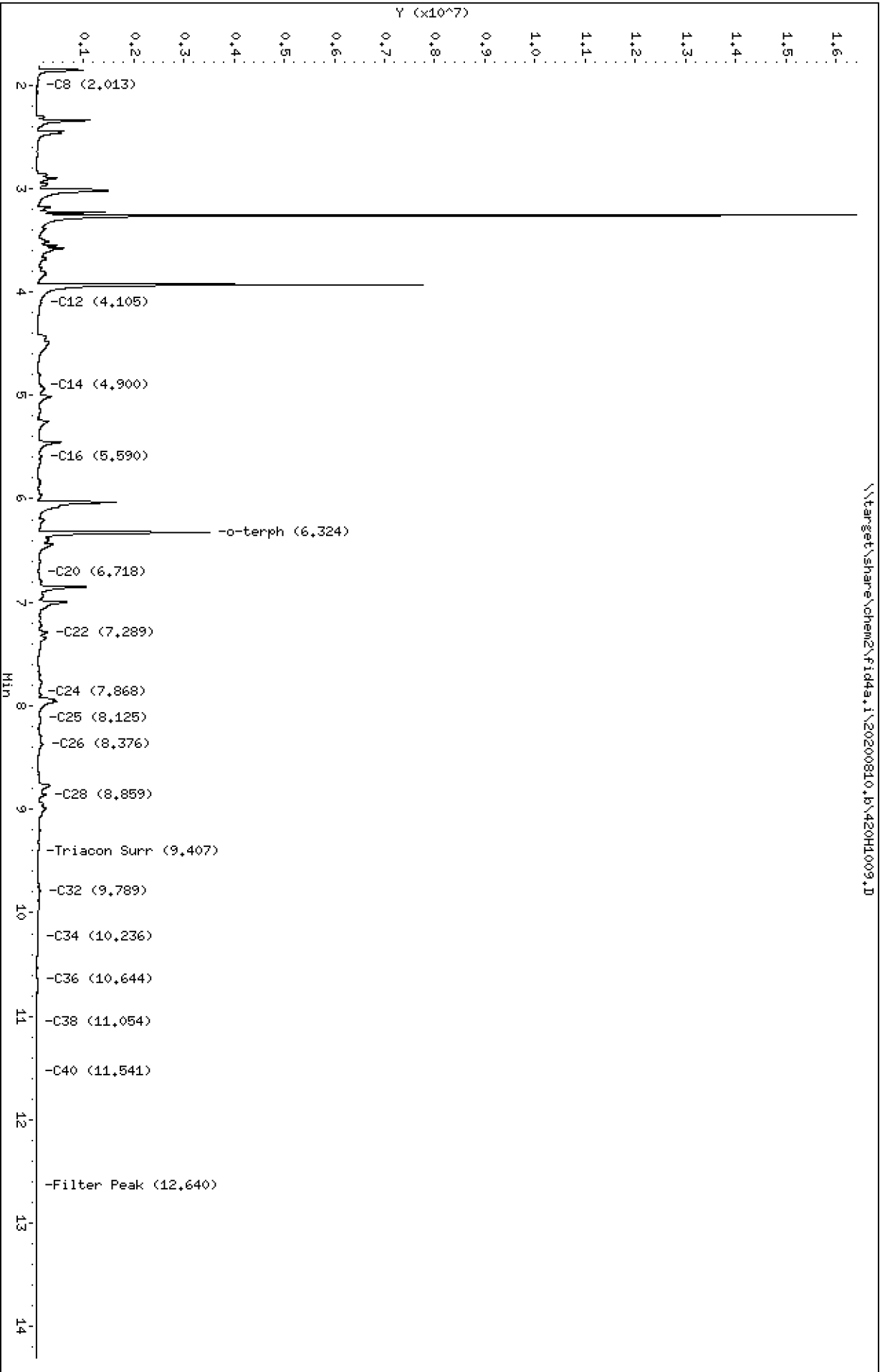
Data File: \\target\share\chem2\fid4a,1\20200810_b\420H1009.D
Date: 10-AUG-2020 12:03
Client ID:
Sample Info: SEQ-CAL2

Instrument: fid4a,1

Page 1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1009.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL2
Client ID:
Injection: 10-AUG-2020 12:03
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

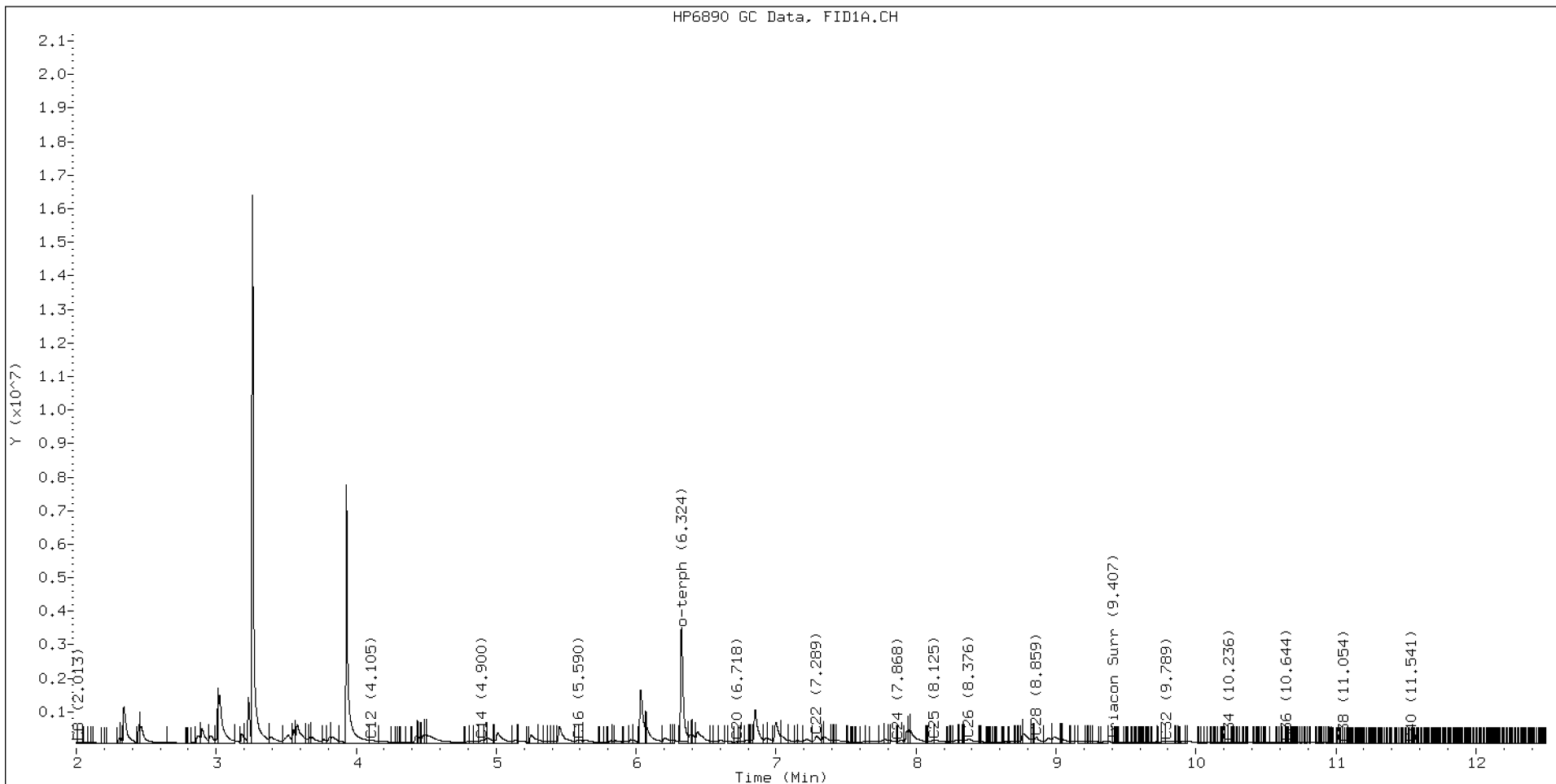
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.013	0.014	13752	23396	WATPHD	(C12-C24)	24094230	151.2
C10	----				WATPHM	(C24-C38)	9822291	97.1
C12	4.105	0.012	97213	295971	AK102	(C10-C25)	55662092	284.7
C14	4.900	0.003	96654	172578	AK103	(C25-C36)	7689863	105.0
C16	5.590	0.046	100512	127761	OR.DIES	(C10-C28)	59384249	303.0
C18	----							
C20	6.718	-0.005	43007	69493	JET-A	(C10-C18)	42803912	254.9
C22	7.289	-0.001	213953	504363				
C24	7.868	0.026	51518	25580				
C25	8.125	0.014	87057	179953				
C26	8.376	0.000	125029	524631				
C28	8.859	-0.023	181002	435693				
C32	9.789	-0.022	68586	223761				
C34	10.236	-0.001	21356	24080				
Filter Peak	12.640	-0.000	3549	1227	CREOSOT	(C12-C22)	22100398	245.2
C36	10.644	0.001	13989	3478				
C38	11.054	-0.000	9429	6073				
C40	11.541	0.003	5623	1672				
o-terph	6.324	-0.013	3394533	4330623				
Triacon Surr	9.407	0.023	36620	30128	NAS DIES	(C10-C24)	53743053	275.4

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	4330623	21.2 M
Triacontane	30128	0.2

M Indicates the peak was manually integrated

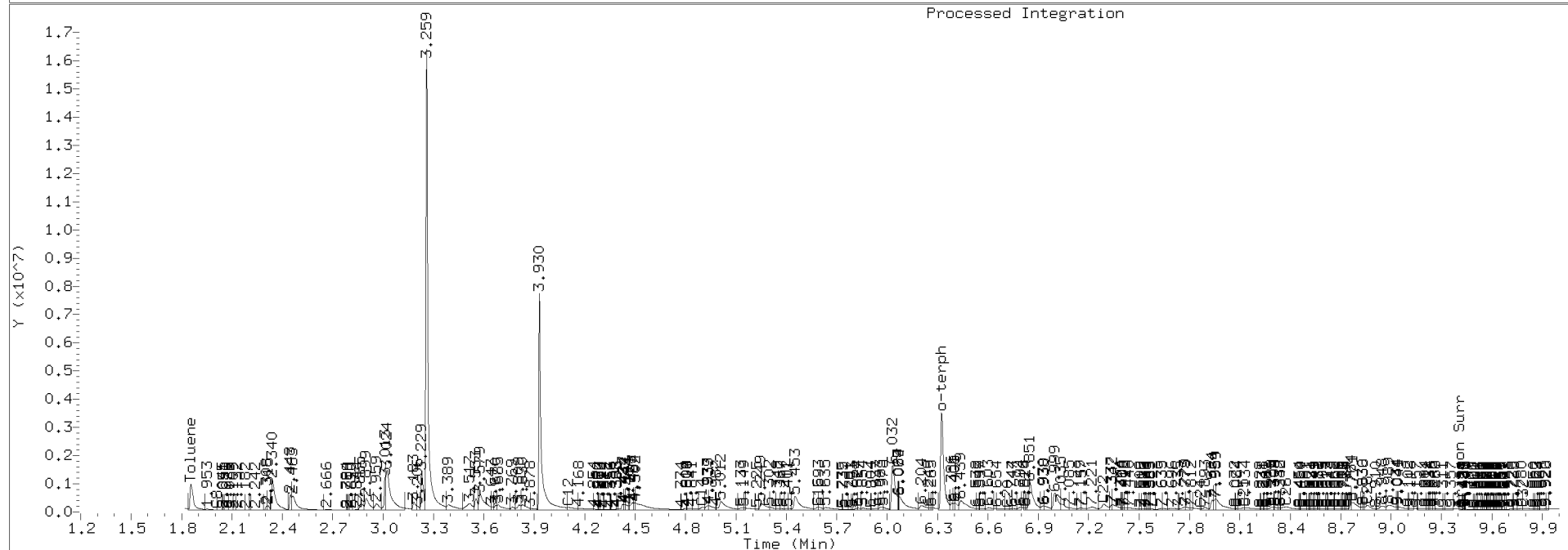
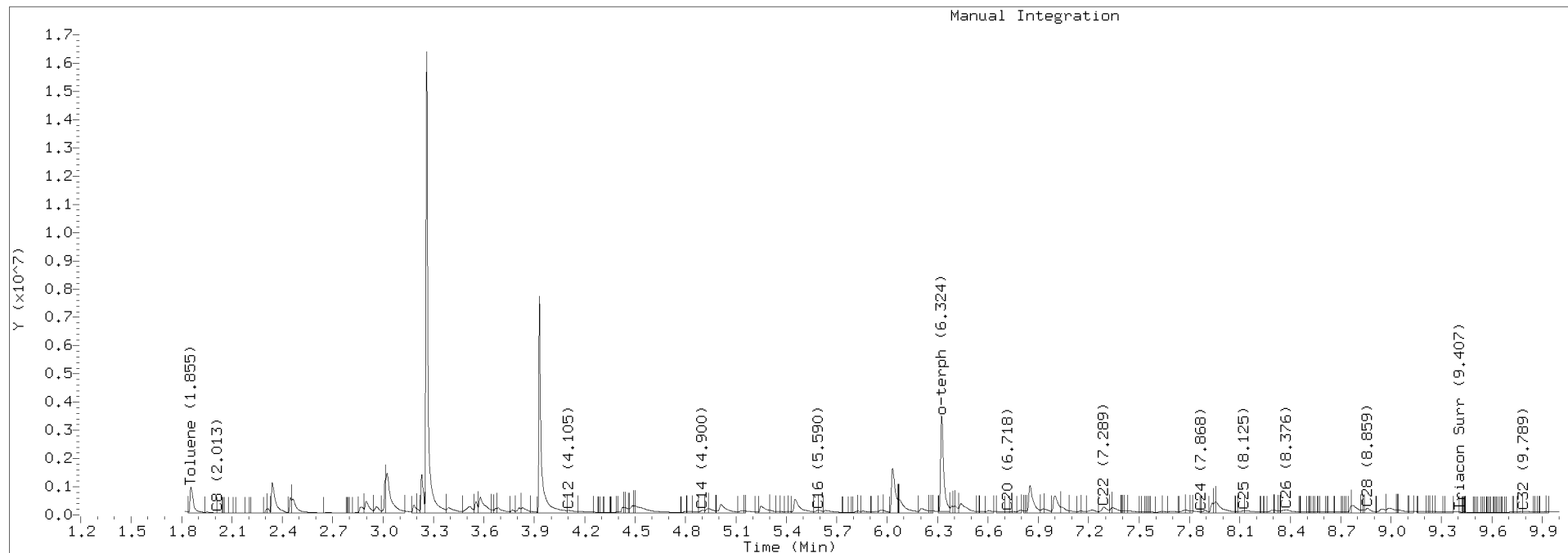
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1009.D Injection: 10-AUG-2020 12:03

Lab ID:SEQ-CAL2



Data File: \\target\share\chem2\fid4a,1\20200810_b\420H1010.D
Date: 10-AUG-2020 12:23

Client ID:

Sample Info: SEQ-CAL3

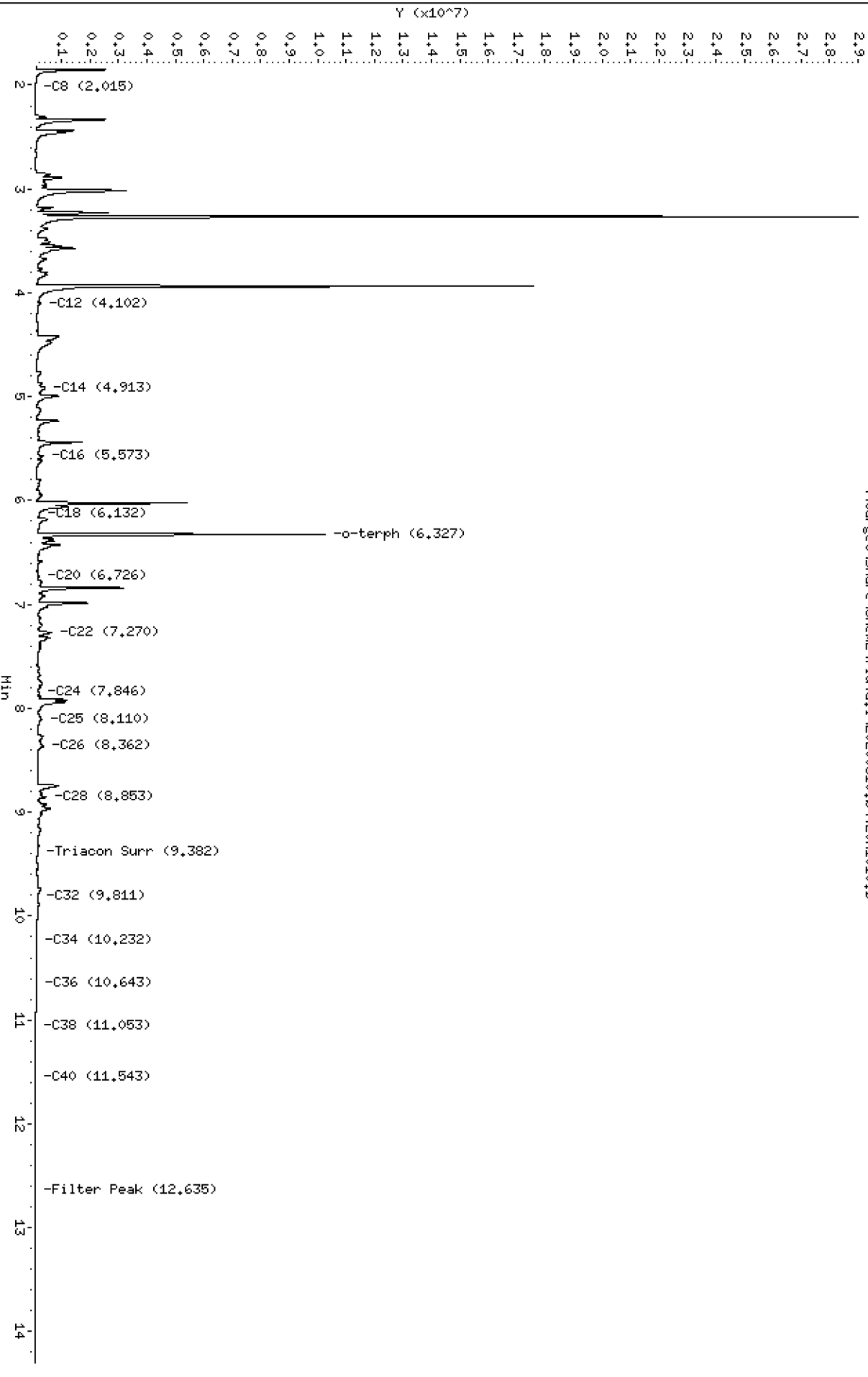
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810_b\420H1010.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1010.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL3
Client ID:
Injection: 10-AUG-2020 12:23
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

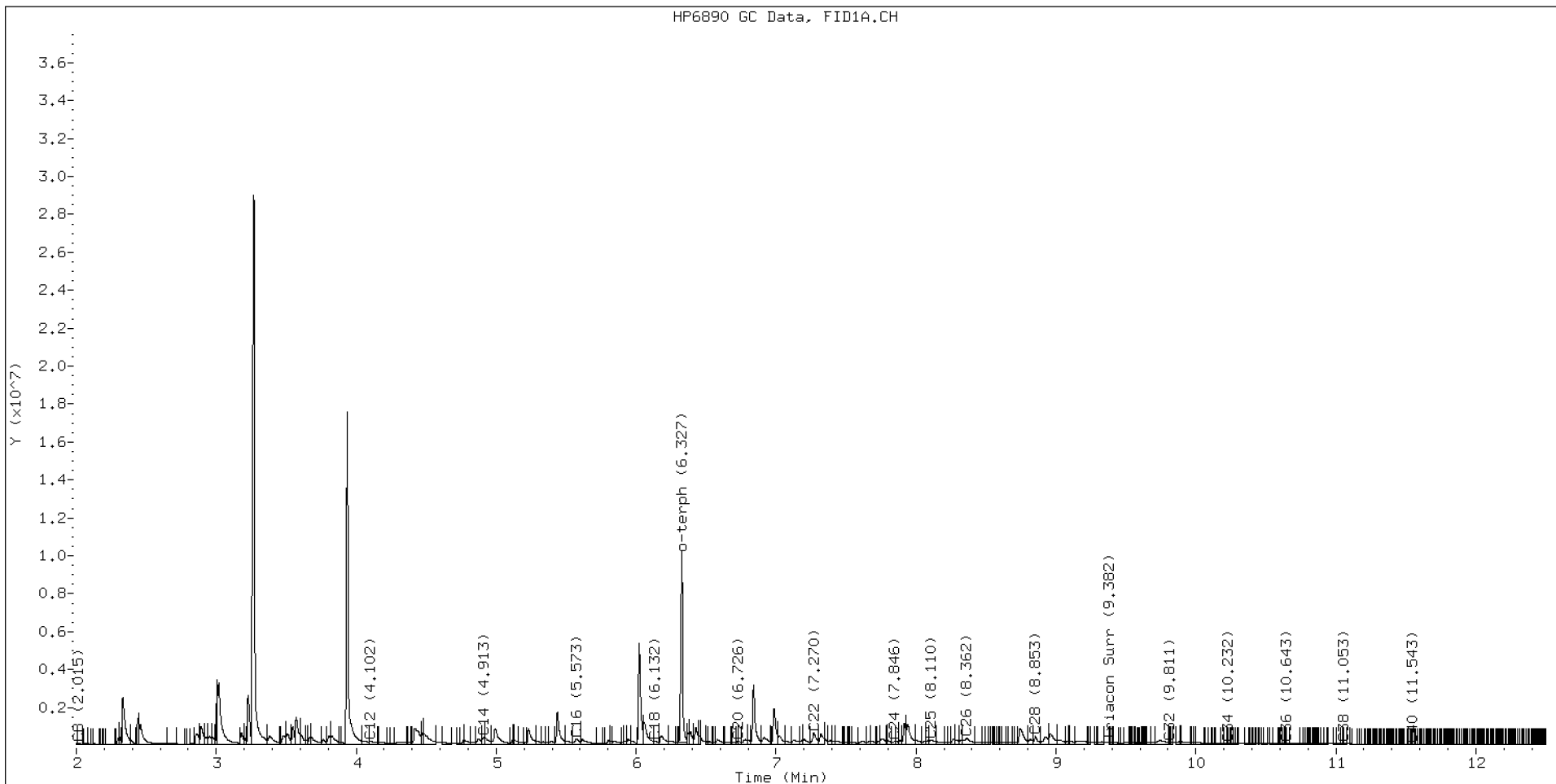
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.015	0.016	17846	36273	WATPHD	(C12-C24)	51259340	321.7
C10	----				WATPHM	(C24-C38)	22066522	218.1
C12	4.102	0.009	179685	448519	AK102	(C10-C25)	116587134	596.4
C14	4.913	0.016	356259	456272	AK103	(C25-C36)	17746552	242.4
C16	5.573	0.029	271020	584987	OR.DIES	(C10-C28)	125538937	640.5
C18	6.132	-0.006	140882	269530				
C20	6.726	0.003	136775	134046	JET-A	(C10-C18)	90127540	536.8
C22	7.270	-0.021	606173	1140185				
C24	7.846	0.004	128041	176452				
C25	8.110	-0.001	221035	545483				
C26	8.362	-0.014	297442	1027684				
C28	8.853	-0.028	403064	641655				
C32	9.811	0.000	99788	29846				
C34	10.232	-0.006	46152	43534				
Filter Peak	12.635	-0.006	3882	1909	CREOSOT	(C12-C22)	47014203	521.6
C36	10.643	0.000	38763	9675				
C38	11.053	-0.001	17467	8707				
C40	11.543	0.005	8291	3696				
o-terph	6.327	-0.010	10095175	9317090				
Triacon Surr	9.382	-0.002	75592	22548	NAS DIES	(C10-C24)	112694191	577.5

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	9317090	45.5 M
Triacontane	22548	0.2

M Indicates the peak was manually integrated

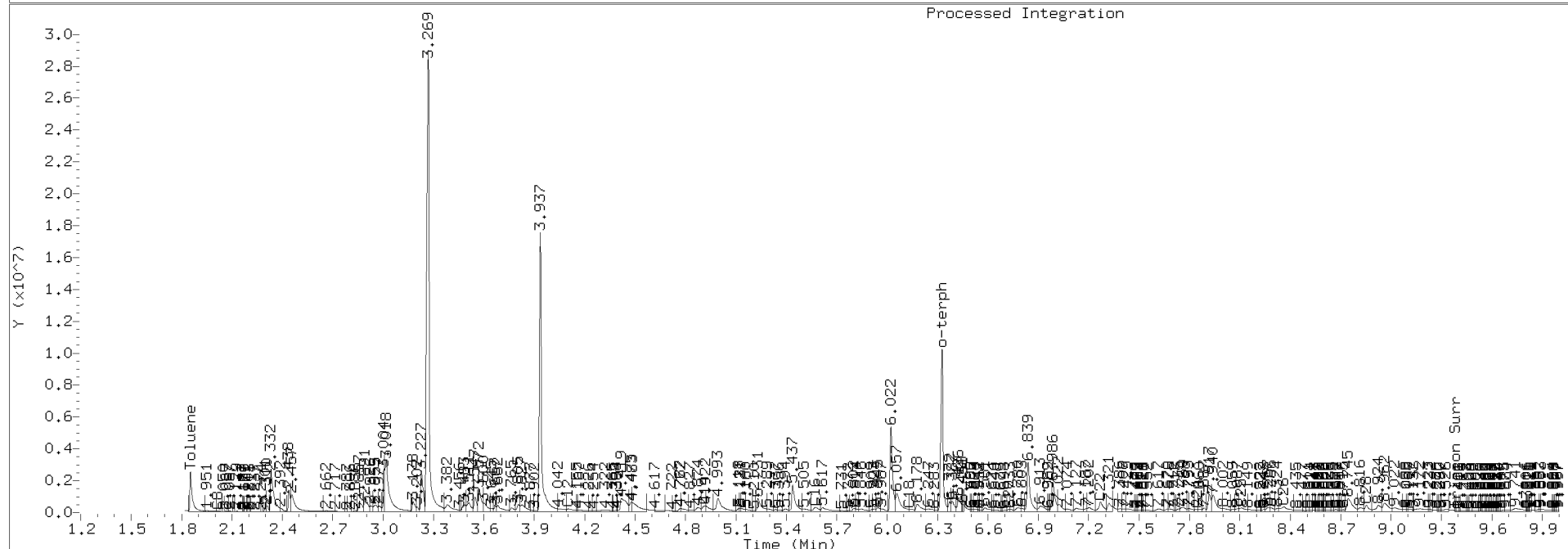
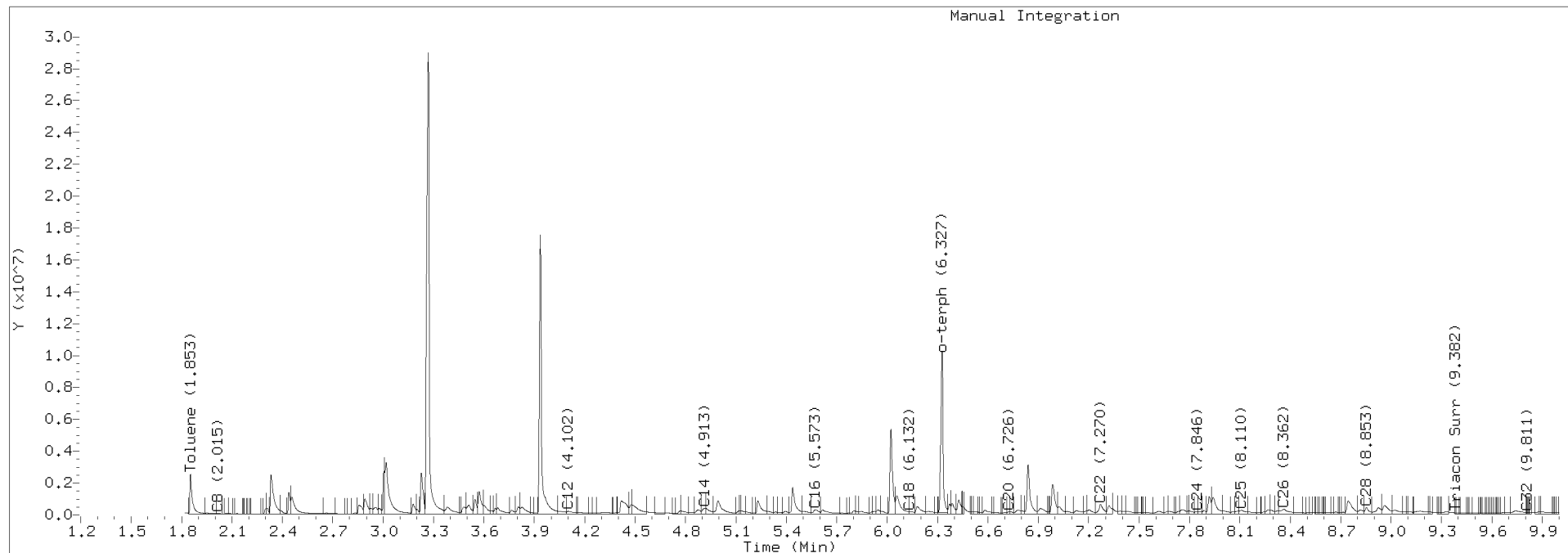
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1010.D Injection: 10-AUG-2020 12:23

Lab ID:SEQ-CAL3



Data File: \\target\share\chem2\fid4a,1\20200810_b\420H1011.D
Date: 10-AUG-2020 12:43

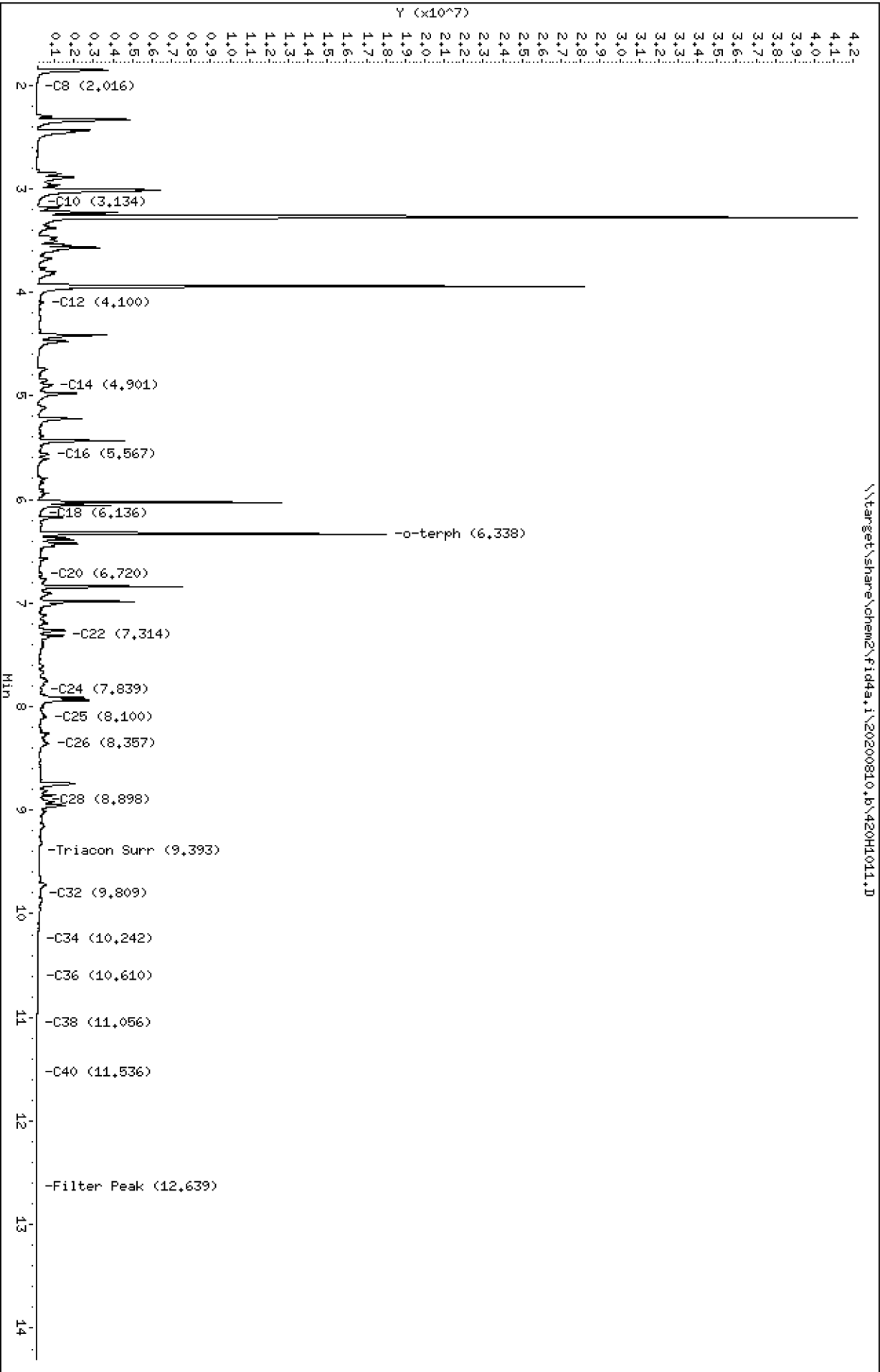
Client ID:
Sample Info: SEQ-CAL4

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1011.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL4
Client ID:
Injection: 10-AUG-2020 12:43
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

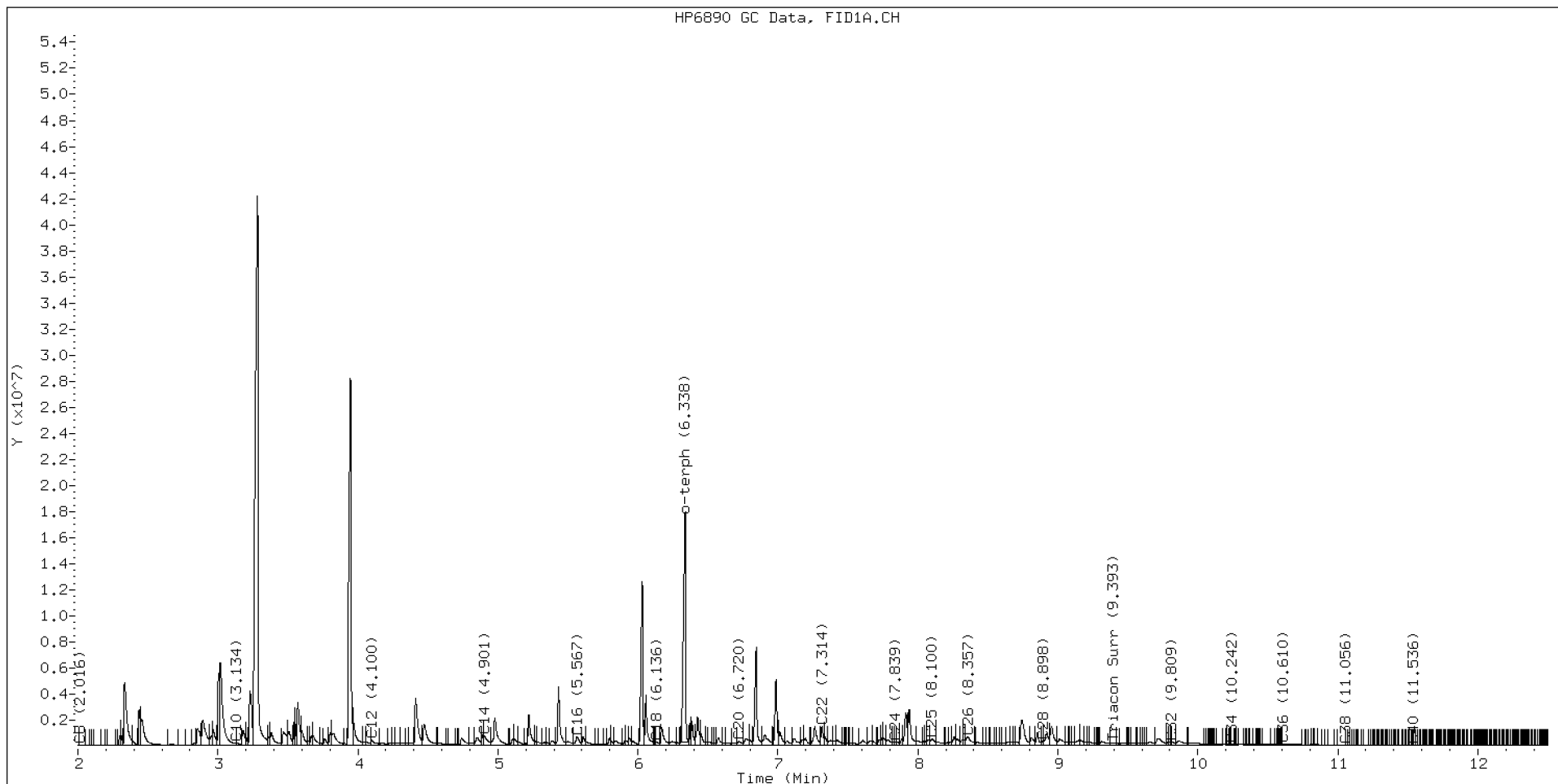
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.016	0.017	24926	59167	WATPHD	(C12-C24)	103926698	652.2
C10	3.134	0.022	150444	235035	WATPHM	(C24-C38)	45820283	452.9
C12	4.100	0.007	374328	737397	AK102	(C10-C25)	235546622	1204.9
C14	4.901	0.004	751227	1307415	AK103	(C25-C36)	37291444	509.4
C16	5.567	0.023	643749	1189010	OR.DIES	(C10-C28)	254051179	1296.2
C18	6.136	-0.002	231616	350832				
C20	6.720	-0.003	299567	566605	JET-A	(C10-C18)	181572311	1081.4
C22	7.314	0.023	1420953	1498483				
C24	7.839	-0.003	259197	166369				
C25	8.100	-0.011	495518	989810				
C26	8.357	-0.019	638808	1623602				
C28	8.898	0.016	333560	331673				
C32	9.809	-0.002	229023	124533				
C34	10.242	0.005	88773	91037				
Filter Peak	12.639	-0.001	2788	1651	CREOSOT	(C12-C22)	95404139	1058.5
C36	10.610	-0.033	86162	550400				
C38	11.056	0.002	27157	25166				
C40	11.536	-0.002	10651	4226				
o-terph	6.338	0.001	17707002	18789469				
Triacon Surr	9.393	0.009	169162	447494	NAS DIES	(C10-C24)	227630229	1166.4

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	18789469	91.8 M
Triacontane	447494	3.0

M Indicates the peak was manually integrated

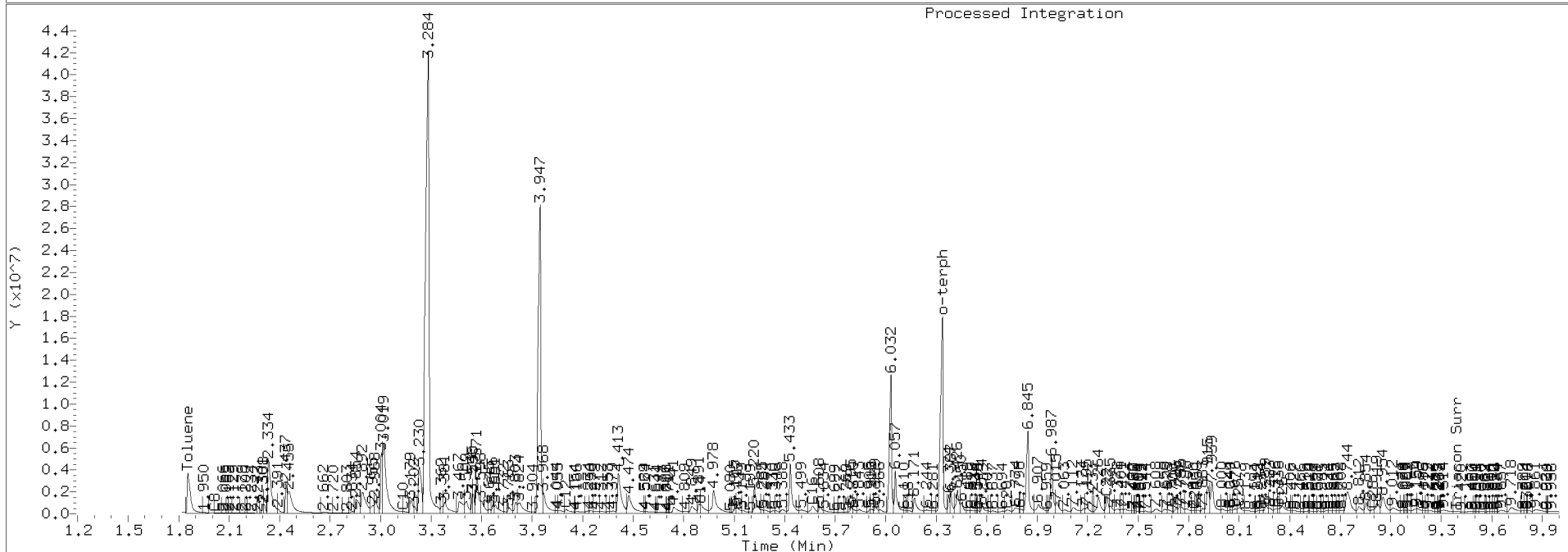
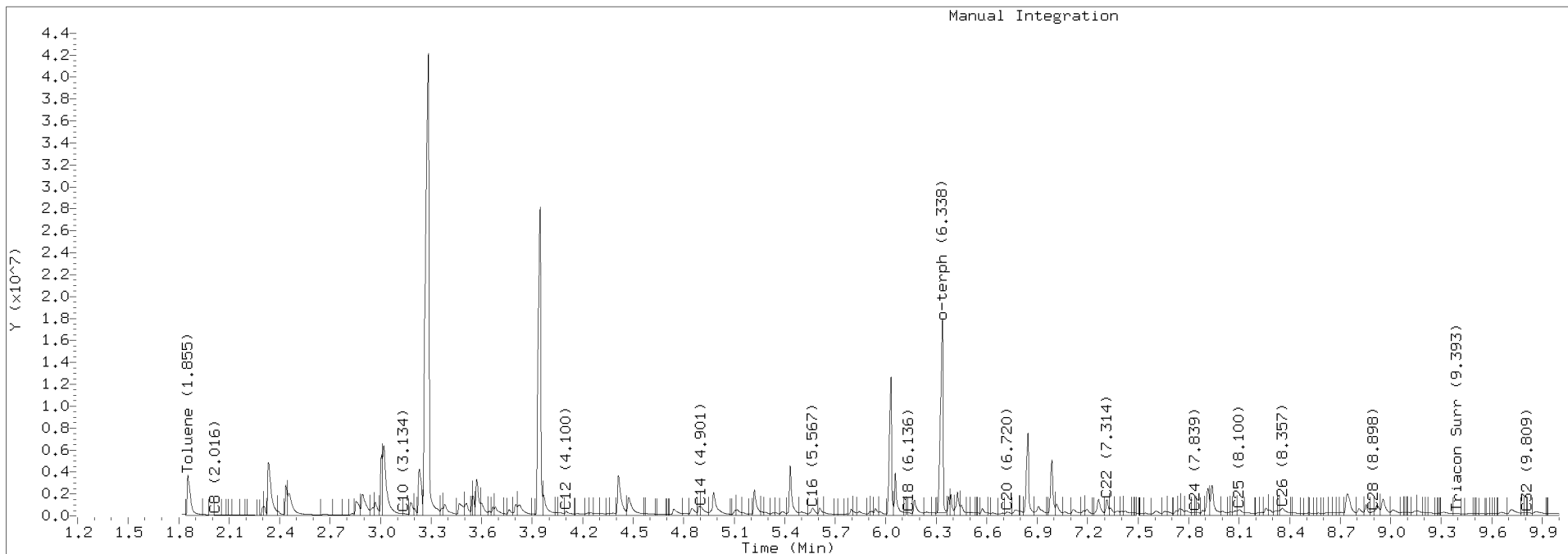
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1011.D Injection: 10-AUG-2020 12:43

Lab ID:SEQ-CAL4

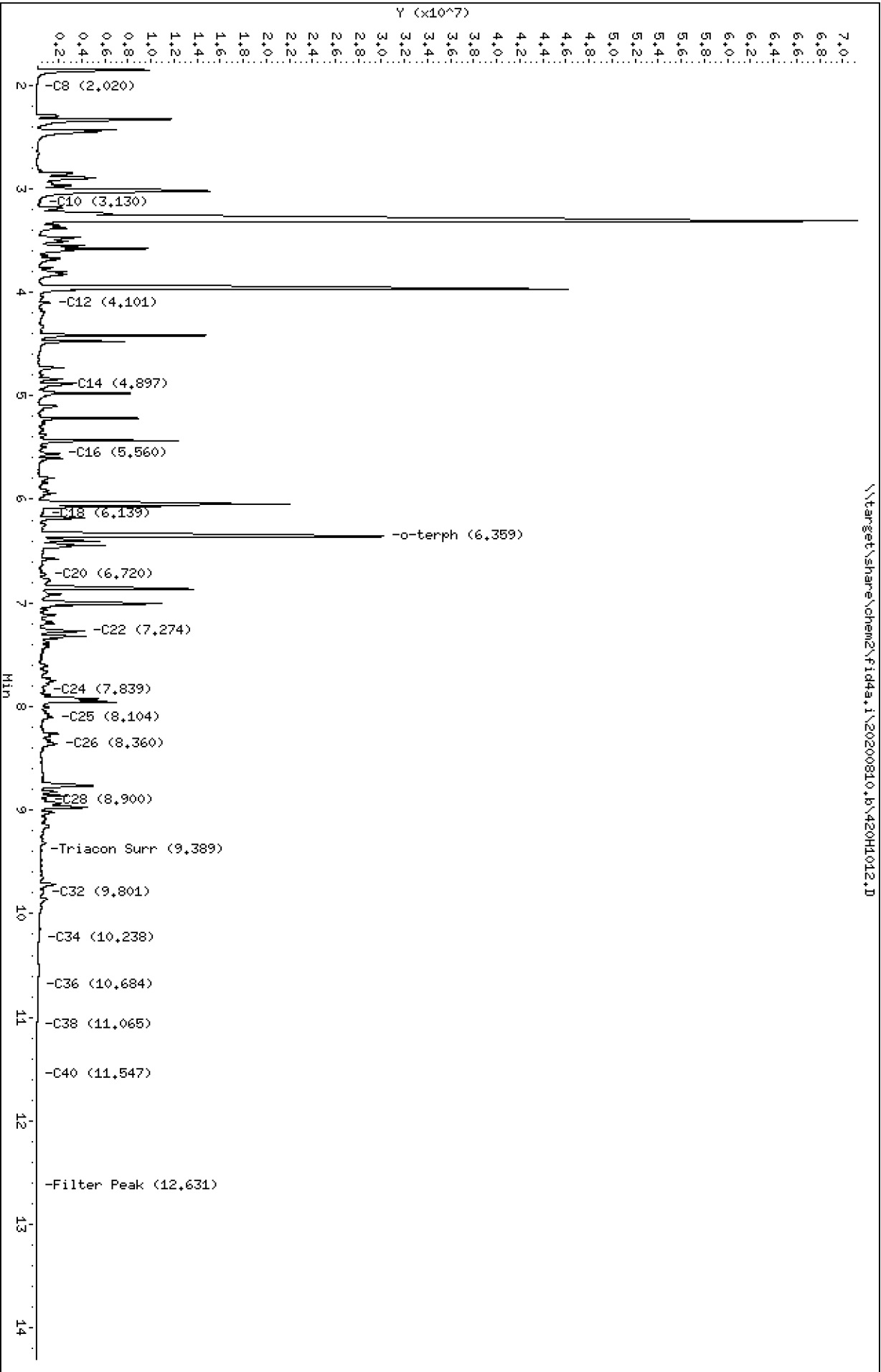


Data File: \\target\share\chem2\fid4a,1\20200810_b\420H1012.D
Date: 10-AUG-2020 13:02
Client ID:
Sample Info: SEQ-CALS

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1012.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL5
Client ID:
Injection: 10-AUG-2020 13:02
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

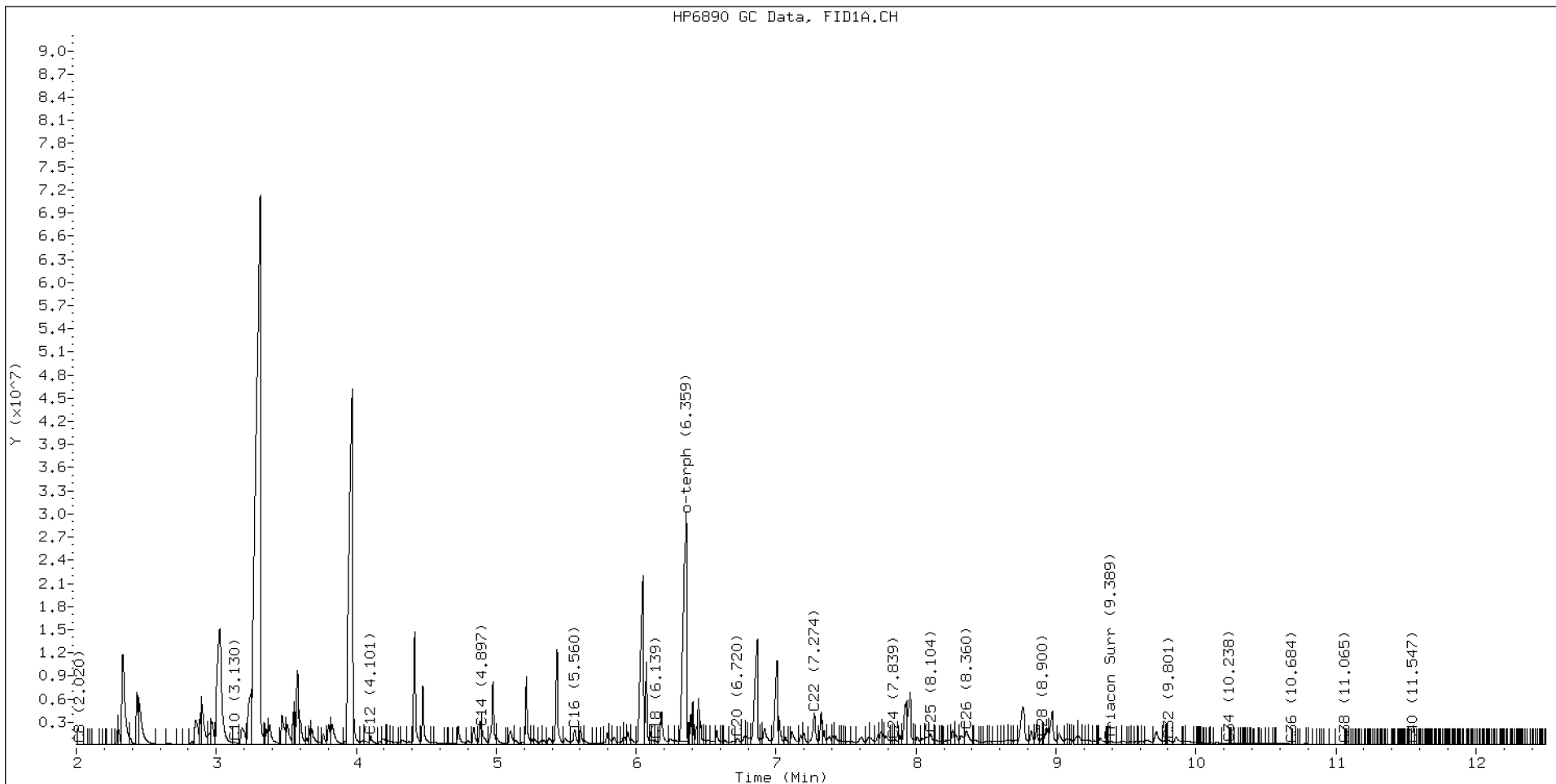
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.020	0.021	52370	125836	WATPHD	(C12-C24)	268023483	1682.1
C10	3.130	0.018	317129	695453	WATPHM	(C24-C38)	117269407	1159.2
C12	4.101	0.008	1186747	1663447	AK102	(C10-C25)	600790147	3073.2
C14	4.897	-0.000	2168738	2784429	AK103	(C25-C36)	95264608	1301.3
C16	5.560	0.016	1984017	3122013	OR.DIES	(C10-C28)	644811716	3289.9
C18	6.139	0.001	562391	706347				
C20	6.720	-0.003	826278	1411340	JET-A	(C10-C18)	461462580	2748.5
C22	7.274	-0.017	4123124	6213742				
C24	7.839	-0.003	669495	624603				
C25	8.104	-0.008	1393399	2367433				
C26	8.360	-0.016	1824142	4074782				
C28	8.900	0.018	833163	754960				
C32	9.801	-0.009	606450	1103529				
C34	10.238	0.001	193616	76806				
Filter Peak	12.631	-0.009	7657	6760	CREOSOT	(C12-C22)	243658159	2703.5
C36	10.684	0.041	121011	48208				
C38	11.065	0.011	57098	25623				
C40	11.547	0.009	26888	36992				
o-terph	6.359	0.021	29618277	48519579				
Triacon Surr	9.389	0.005	451742	414470	NAS DIES	(C10-C24)	580343650	2973.9

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	48519579	237.0 M
Triacontane	414470	2.8

M Indicates the peak was manually integrated

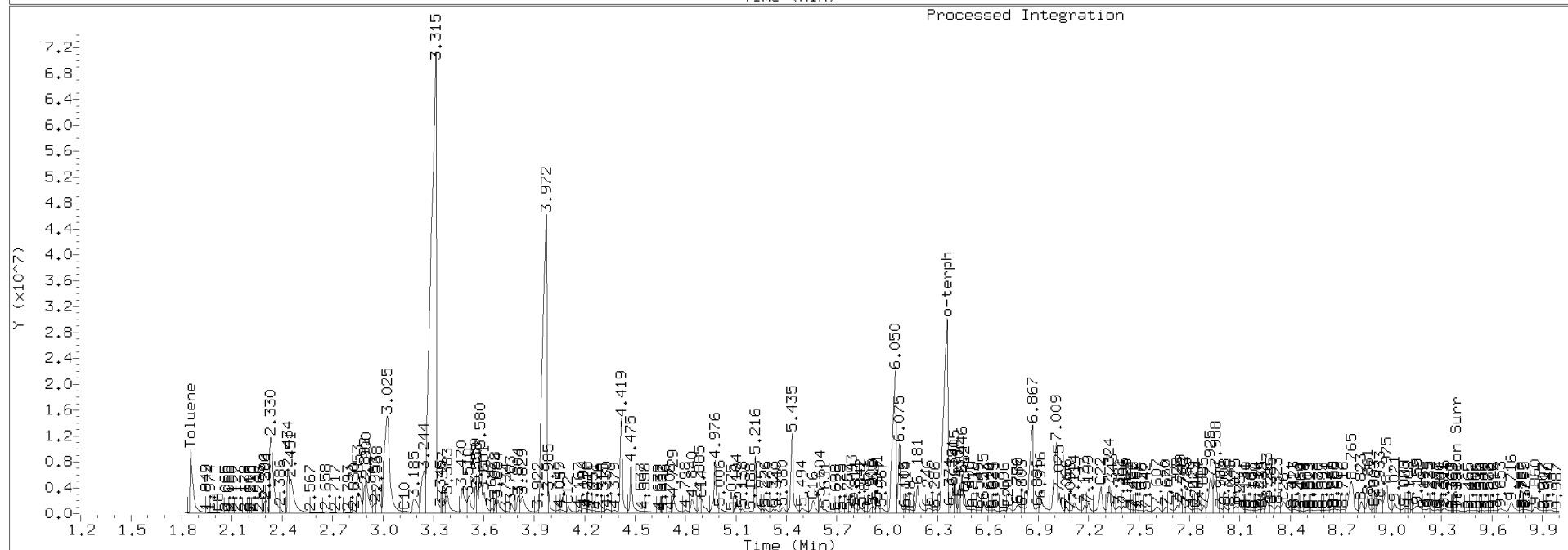
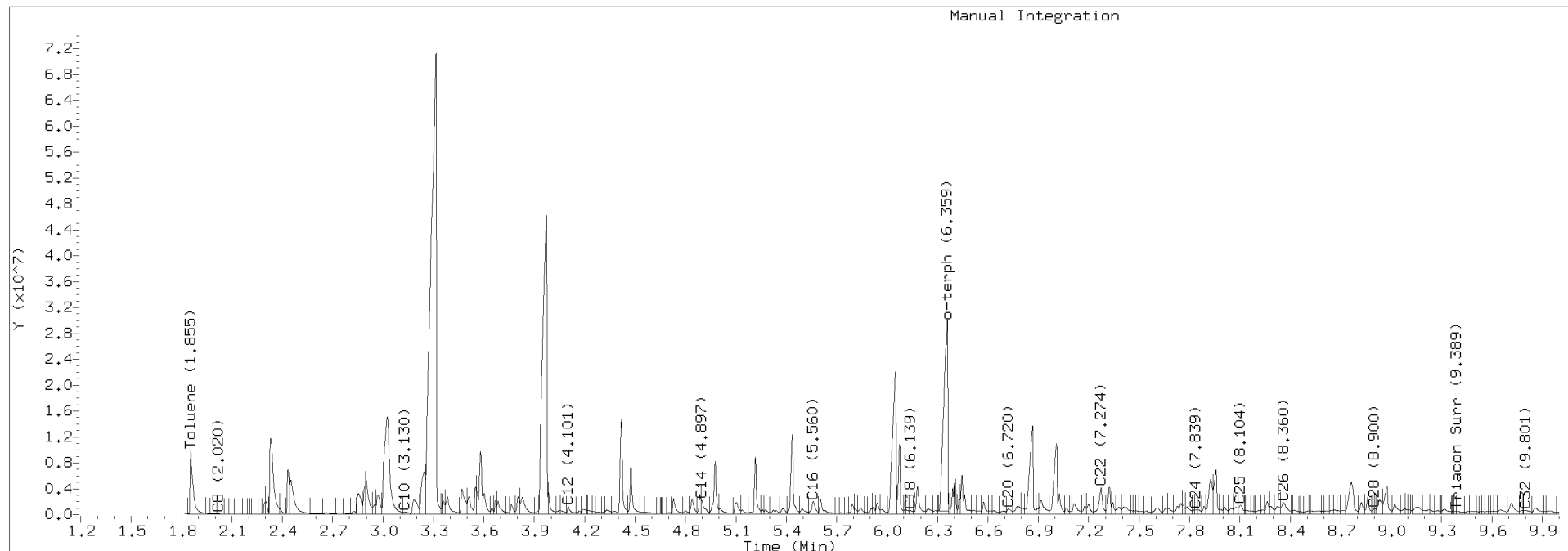
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1012.D Injection: 10-AUG-2020 13:02

Lab ID:SEQ-CAL5



Data File: \\target\share\chem2\fid4a,1\20200810,b\420H1013.D
Date: 10-AUG-2020 13:22

Client ID:

Sample Info: SEQ-CAL6

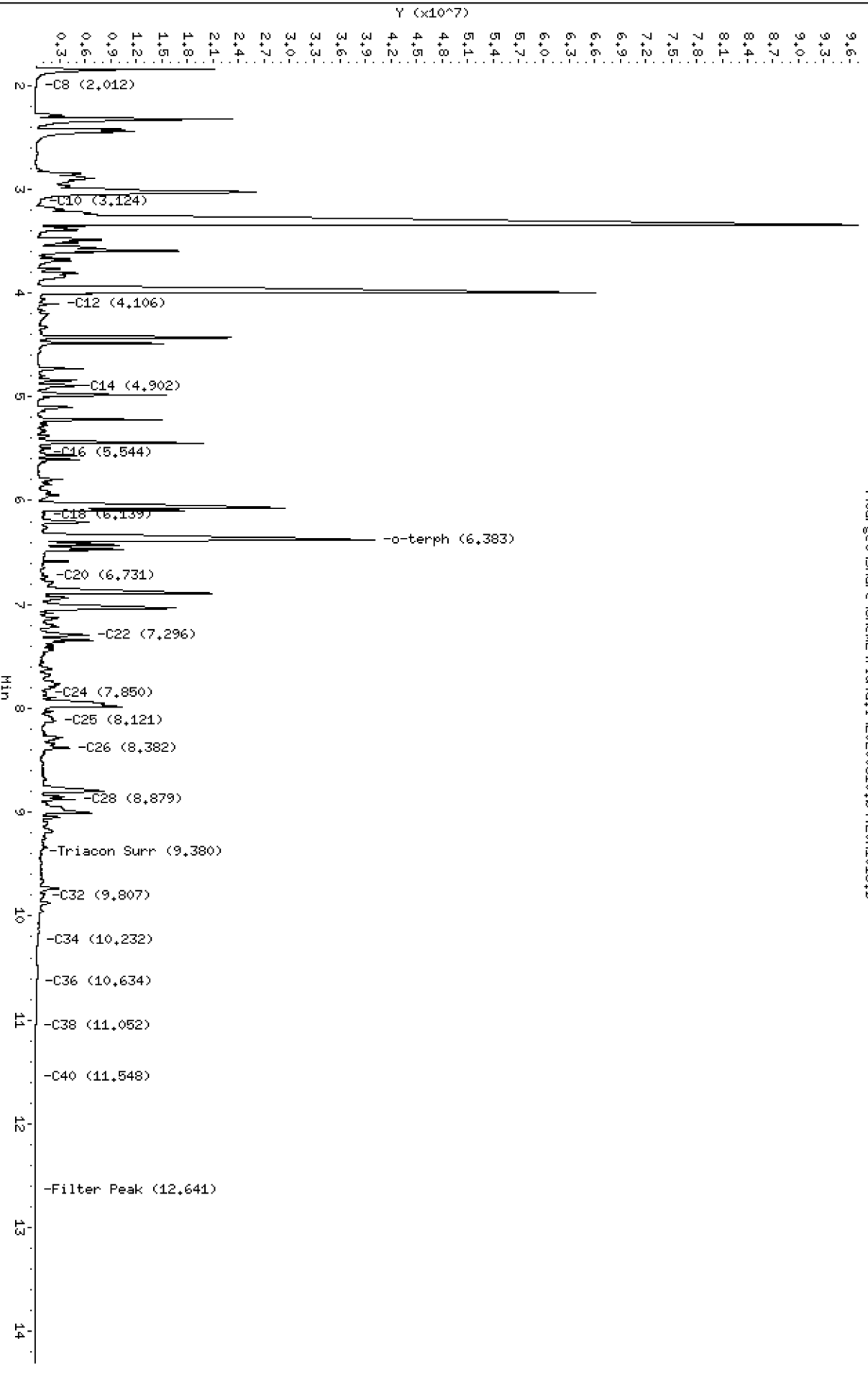
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810,b\420H1013.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200810.b/420H1013.D
Method: 20200810.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/10/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CAL6
Client ID:
Injection: 10-AUG-2020 13:22
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

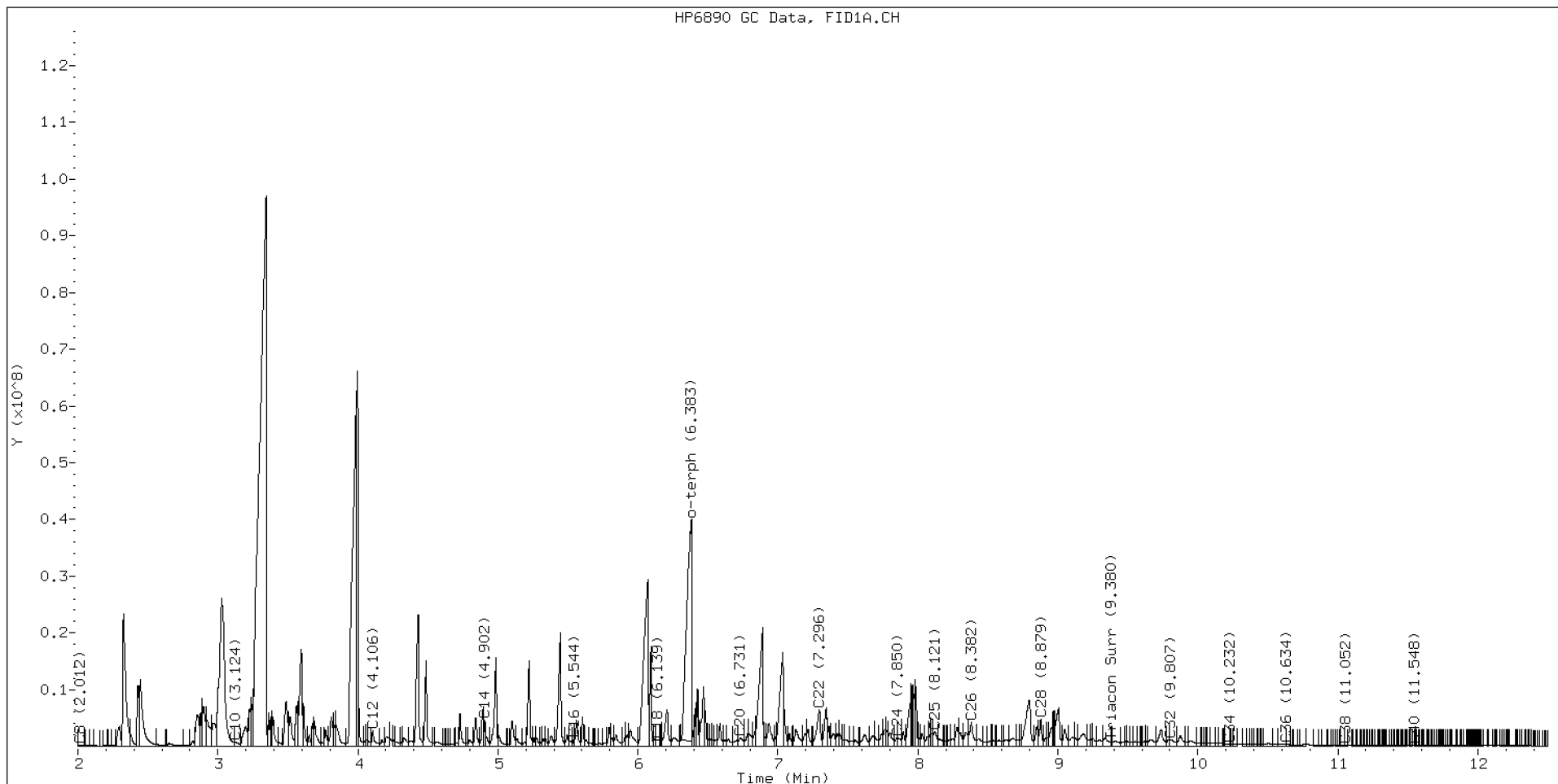
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.012	0.013	95463	213698	WATPHD	(C12-C24)	510718478	3205.3
C10	3.124	0.012	658048	1310273	WATPHM	(C24-C38)	217018558	2145.2
C12	4.106	0.013	2689100	3210487	AK102	(C10-C25)	1154977604	5908.1
C14	4.902	0.005	4529096	3169210	AK103	(C25-C36)	174815307	2388.0
C16	5.544	0.000	1186254	882489	OR.DIES	(C10-C28)	1241149517	6332.4
C18	6.139	0.000	1097209	1614733				
C20	6.731	0.008	1395502	2758564	JET-A	(C10-C18)	878617104	5233.0
C22	7.296	0.005	6358775	11740148				
C24	7.850	0.009	1319296	1273820				
C25	8.121	0.010	2507724	4067646				
C26	8.382	0.006	4064229	7597038				
C28	8.879	-0.003	4657449	5361411				
C32	9.807	-0.004	1046694	2394813				
C34	10.232	-0.005	290793	72598				
Filter Peak	12.641	0.000	7890	3140	CREOSOT	(C12-C22)	458251561	5084.4
C36	10.634	-0.009	213530	321534				
C38	11.052	-0.002	80686	94358				
C40	11.548	0.010	35419	22895				
o-terph	6.383	0.045	38995622	94112864				
Triacon Surr	9.380	-0.004	670067	426371	NAS DIES	(C10-C24)	1115021496	5713.7

Range Times: NW Diesel(4.093 - 7.841) AK102(3.11 - 8.11) Jet A(3.11 - 6.14)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	94112864	459.8 M
Triacontane	426371	2.9

M Indicates the peak was manually integrated

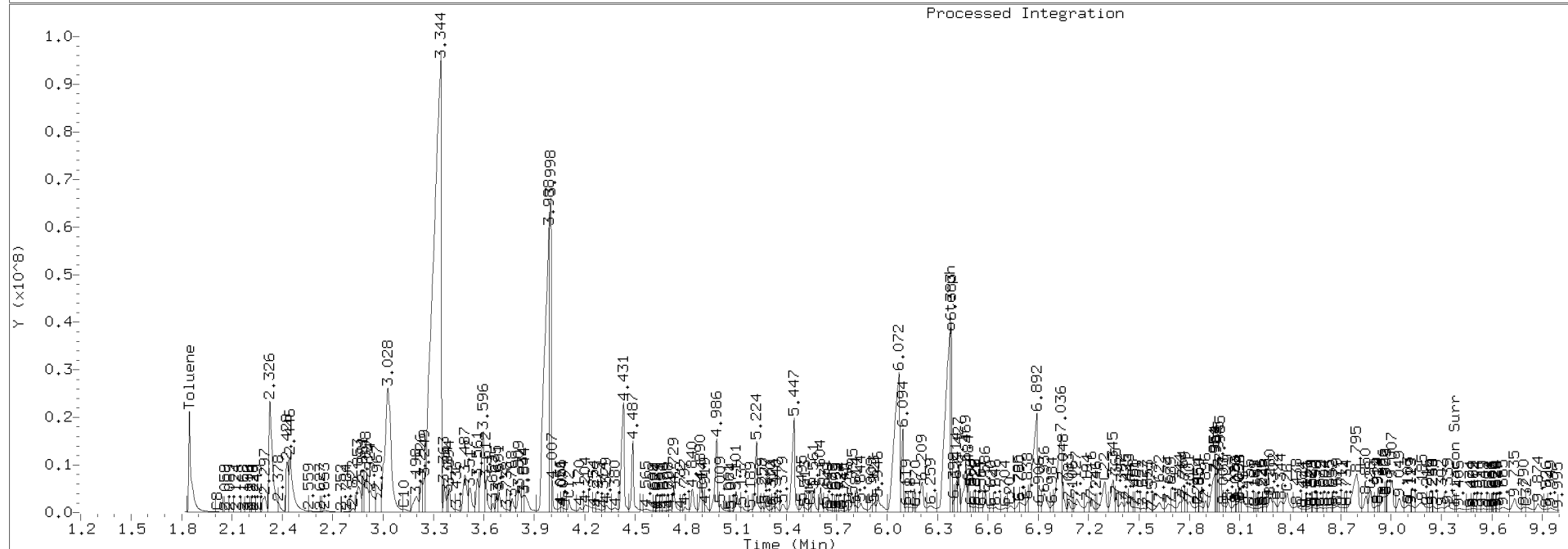
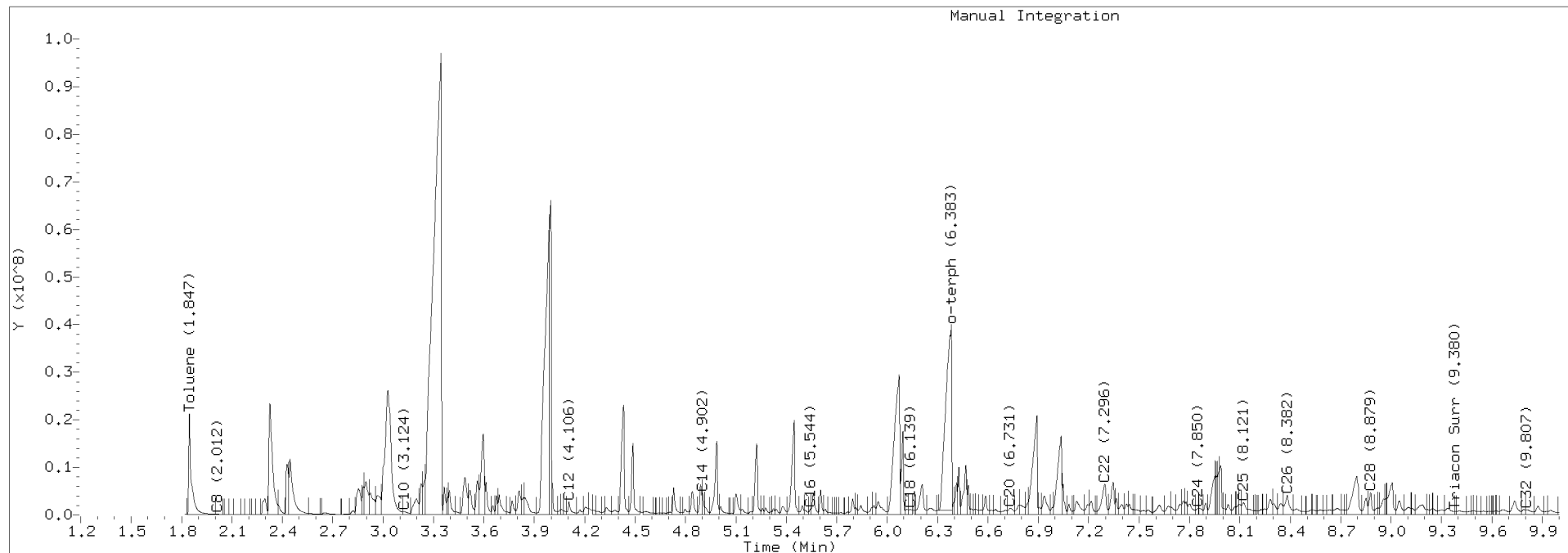
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



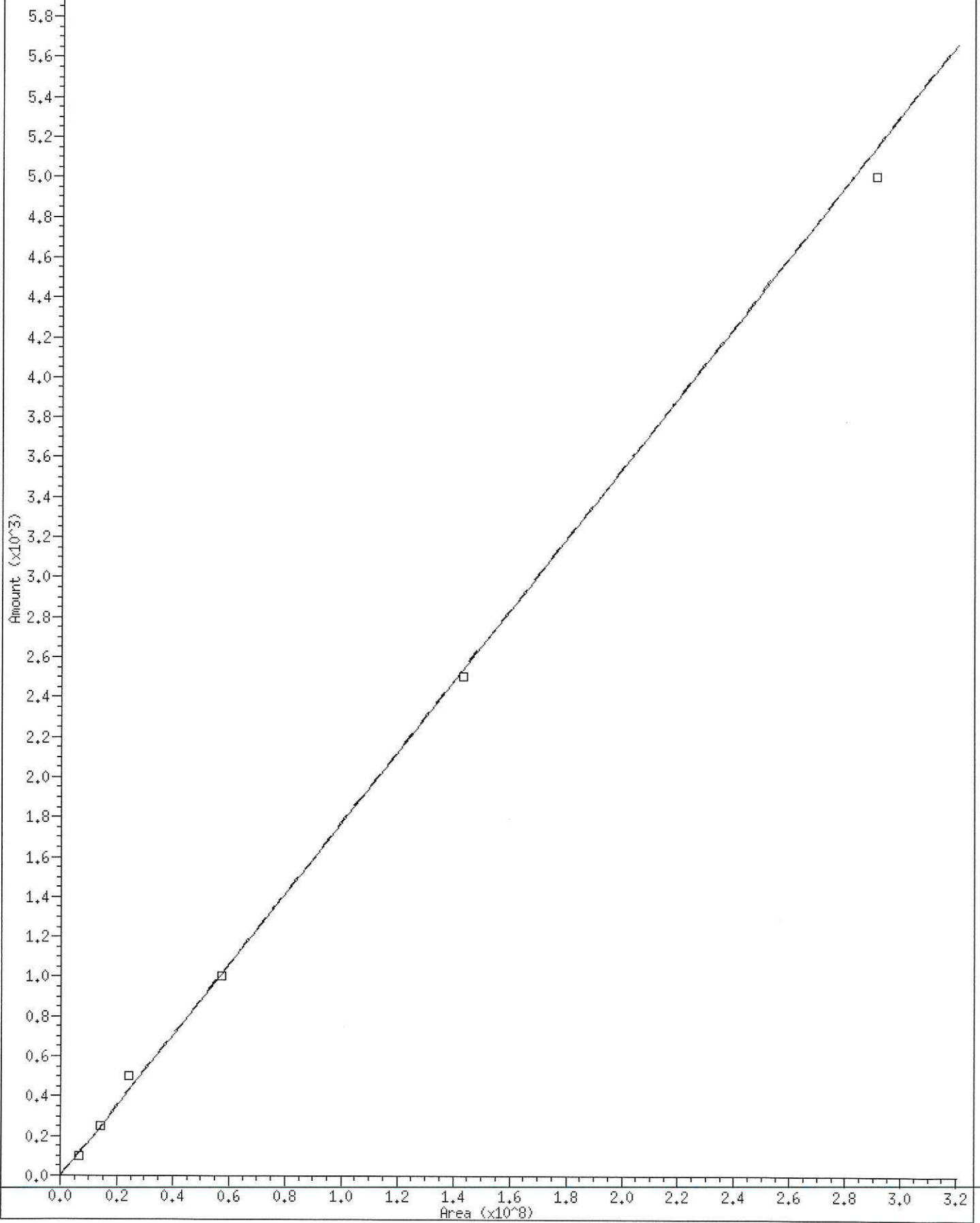
TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1013.D Injection: 10-AUG-2020 13:22

Lab ID:SEQ-CAL6



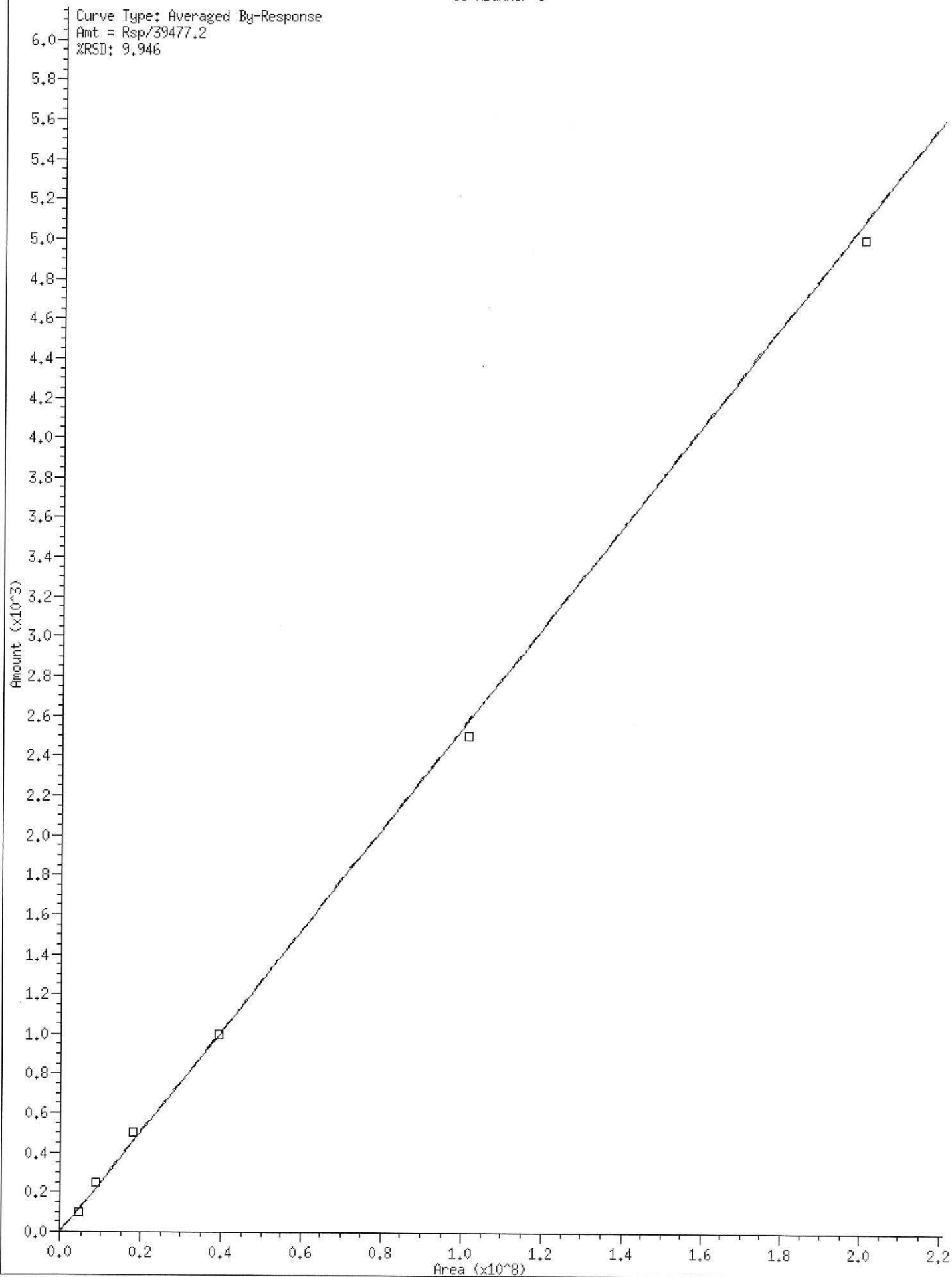
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Amt = Rsp/56572.1
%RSD: 8.647



Curve Type: Averaged By-Response

Amt = Rsp/39477.2

%RSD: 9.946





SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Calibration: CJ00089

Sequence: SHJ0406

SDG: 20J0121

Project: GascoSiltronic

Laboratory ID: SHJ0406-SCV1

Sequence Name: DIESEL SCV

Standard ID: H008294

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Diesel Range Organics (C12-C24)	500.00	511	2.2	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20191025_b\419J2513.D

Date: 25-OCT-2019 15:52

Client ID:

Sample Info: SHJ0406-SCV1

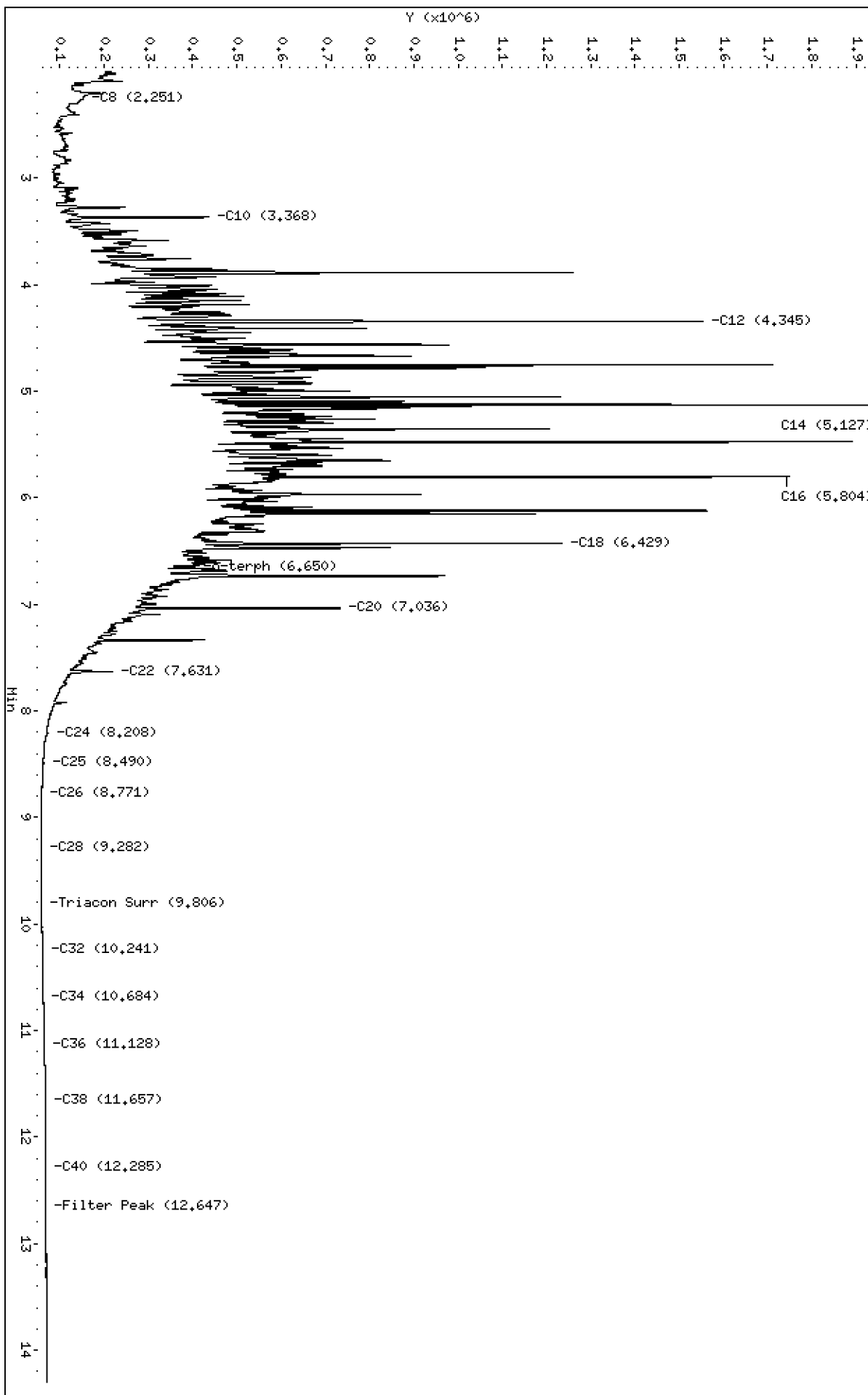
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20191025_b\419J2513.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2513.D

ARI ID: SHJ0406-SCV1

Method: 20191025.b\FID4TPH.m

Client ID:

Instrument: fid4a.i, CTO/SH/VTS/JGR

Injection: 25-OCT-2019 15:52

Report Date: 10/30/2019

Dilution Factor: 1

Macro: 09-SEP-2019

RT Std: 419H1603.D

Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

FID:4A RESULTS

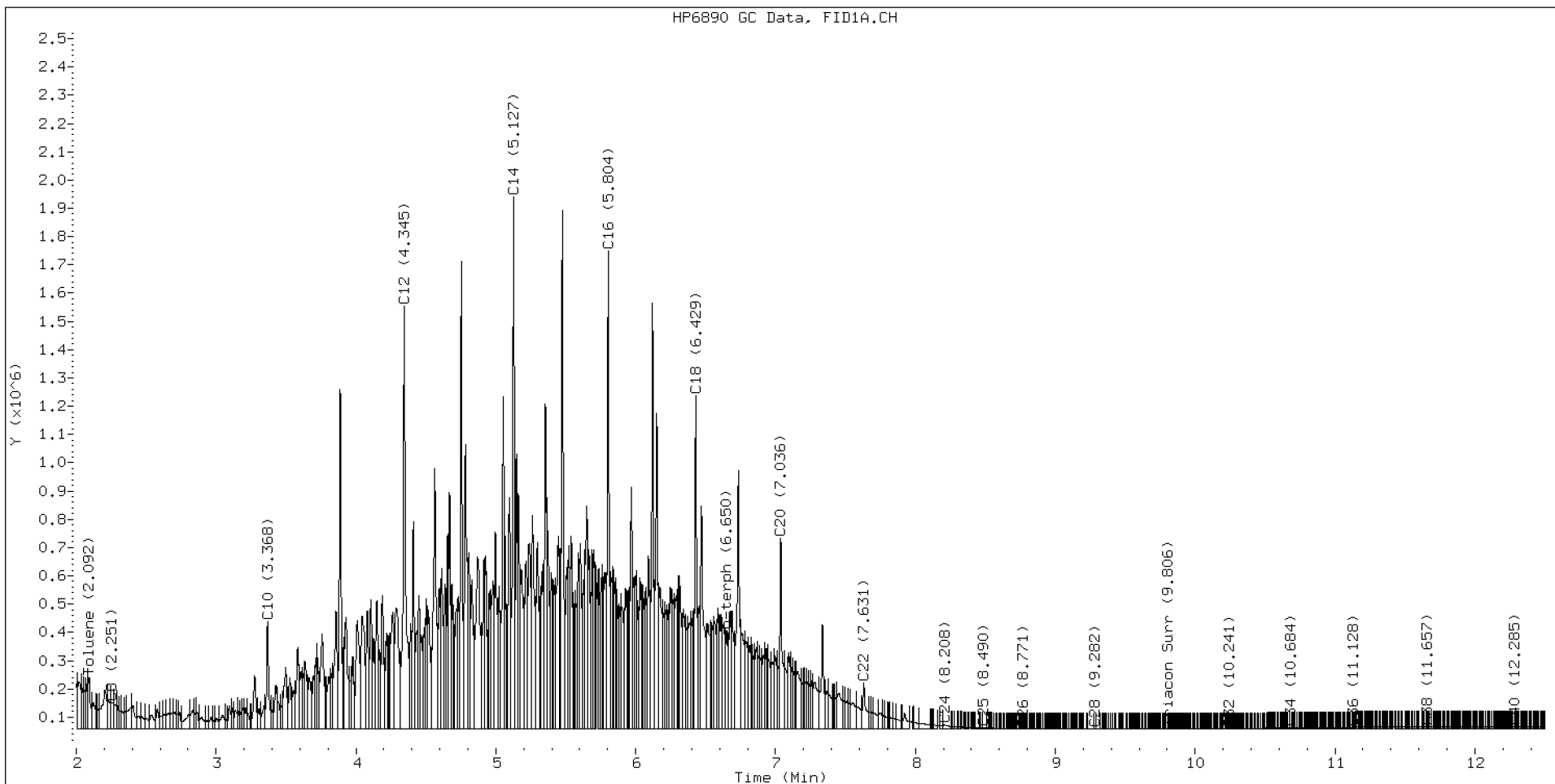
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.251	-0.011	94961	147864	WATPHD	(C12-C24)	81454017	511.2
C10	3.368	-0.005	379319	401979	WATPHM	(C24-C38)	639731	4.8
C12	4.345	-0.002	1496096	1990616	AK102	(C10-C25)	97704414	499.8
C14	5.127	-0.002	1881566	1510979	AK103	(C25-C36)	332991	3.3
C16	5.804	-0.003	1693335	1468242	OR.DIES	(C10-C28)	97755450	498.8
C18	6.429	-0.006	1178327	1173671				
C20	7.036	-0.007	676475	771884				
C22	7.631	-0.008	162529	245982				
C24	8.208	-0.007	16269	46701				
C25	8.490	-0.003	4835	8168				
C26	8.771	0.006	1378	465				
C28	9.282	-0.003	218	122				
C32	10.241	-0.001	2076	410				
C34	10.684	0.003	4334	2137				
Filter Peak	12.647	-0.003	10515	4189	CREOSOT	(C12-C22)	80554511	20650.3
C36	11.128	-0.001	6869	2744				
C38	11.657	0.008	8764	3056				
C40	12.285	-0.004	9988	4995				
o-terph	6.650	-0.007	347314	350999				
Triacon Surr	9.806	0.003	1146	388	NAS DIES	(C10-C24)	97645351	500.4

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
 NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	350999	1.7
Triacontane	388	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019





SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: CJ00089

Laboratory ID: SHJ0406-SCV2

Sequence: SHJ0406

Sequence Name: MOIL SCV

Standard ID: H008399

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Motor Oil Range Organics (C24-C38)	1000.0	1020	1.9	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20191025,6\419J2520.D

Date: 25-OCT-2019 18:14

Client ID:

Sample Info: SHJ0406-SCV2

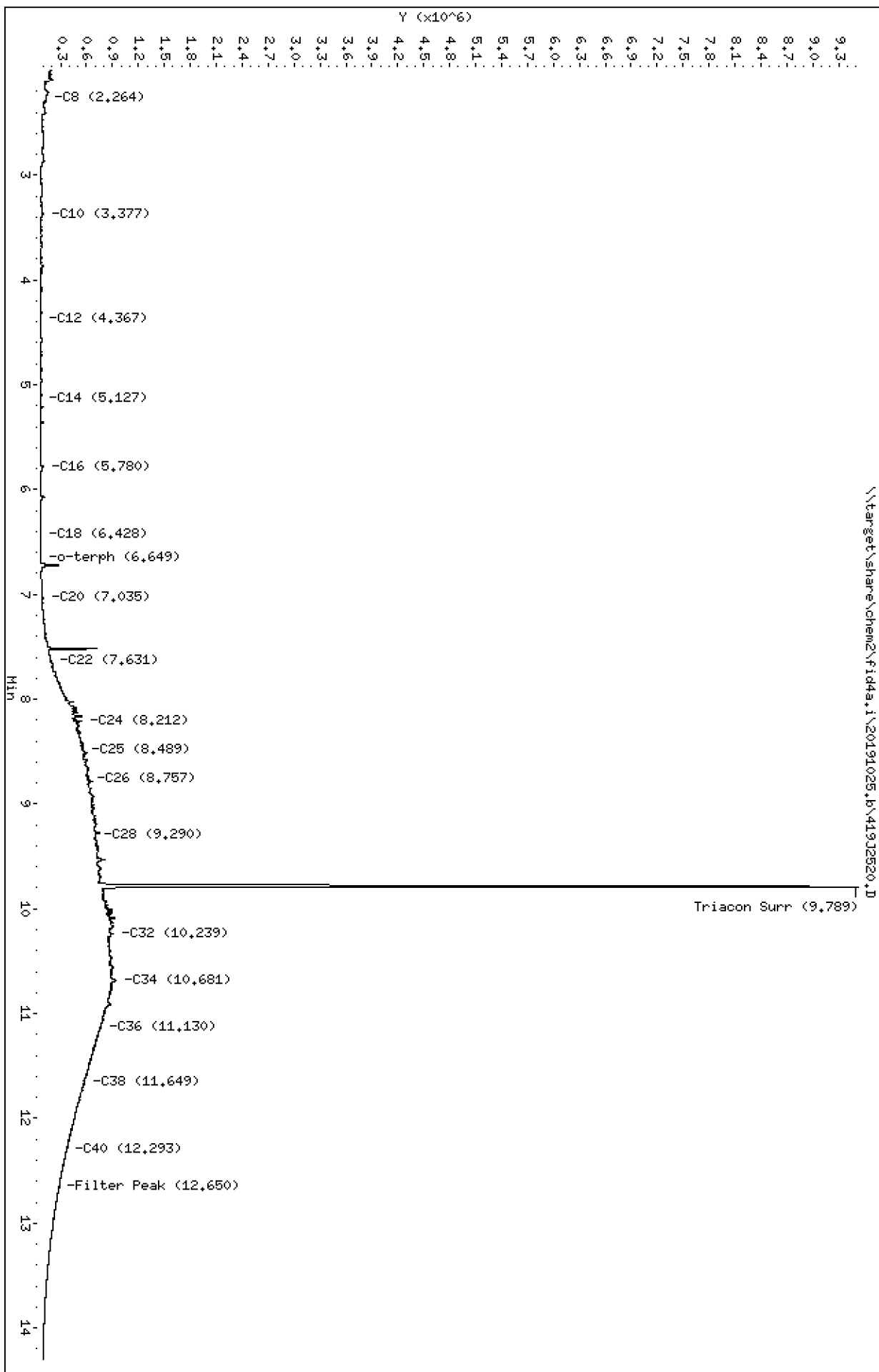
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20191025.b/419J2520.D

ARI ID: SHJ0406-SCV2

Method: 20191025.b\FID4TPH.m

Client ID:

Instrument: fid4a.i, CTO/SH/VTS/JGR

Injection: 25-OCT-2019 18:14

Report Date: 10/30/2019

Dilution Factor: 1

Macro: 09-SEP-2019

RT Std: 419H1603.D

Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

FID:4A RESULTS

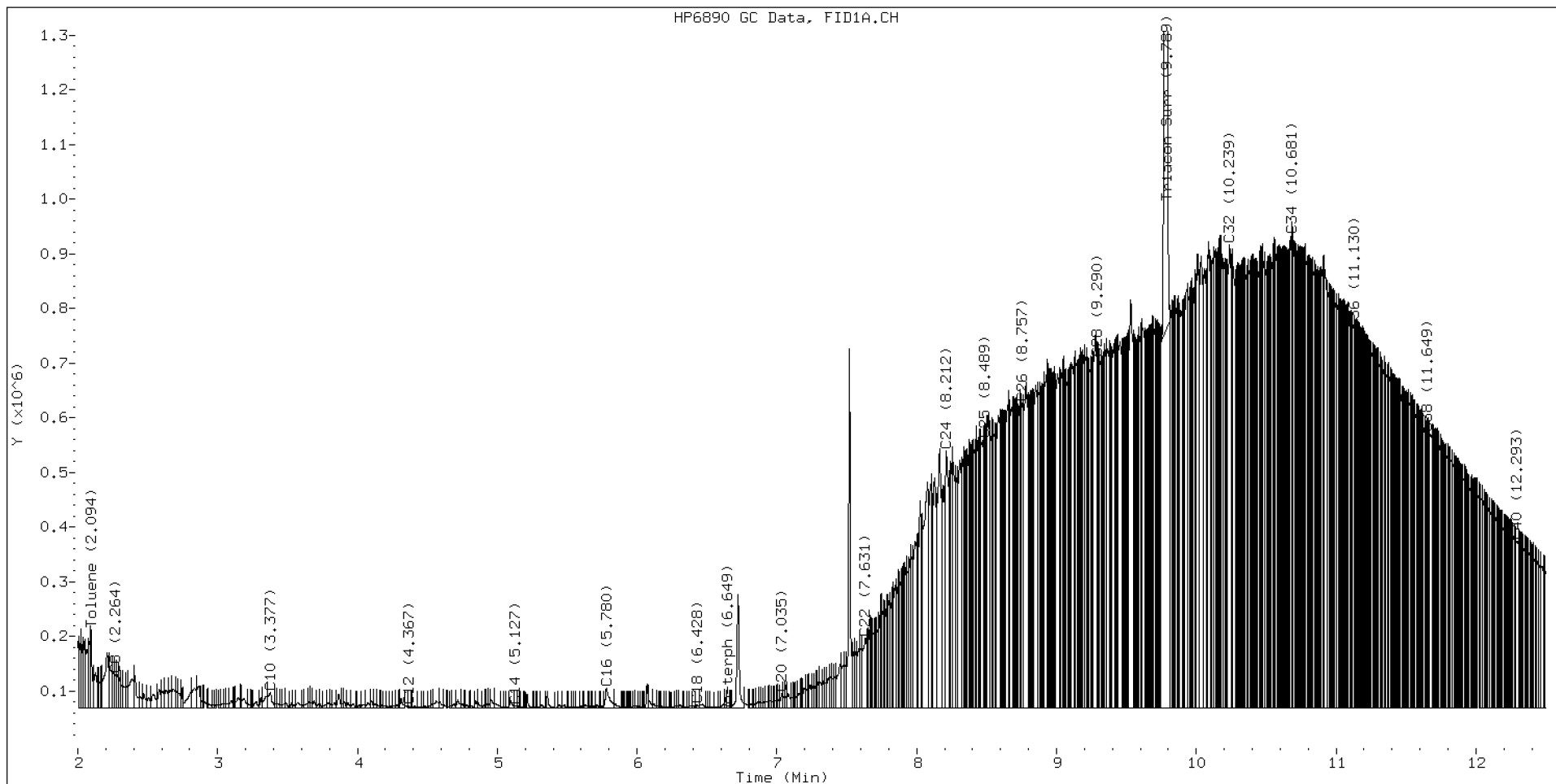
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61386	42202	WATPHD	(C12-C24)	14006466	87.9
C10	3.377	0.004	28038	52387	WATPHM	(C24-C38)	135195593	1019.3
C12	4.367	0.020	3146	3151	AK102	(C10-C25)	18822986	96.3
C14	5.127	-0.003	4143	4458	AK103	(C25-C36)	113030798	1130.6
C16	5.780	-0.027	35494	74348	OR.DIES	(C10-C28)	49340102	251.7
C18	6.428	-0.007	6156	6874				
C20	7.035	-0.008	26093	30304				
C22	7.631	-0.008	127794	247657				
C24	8.212	-0.003	471017	746279				
C25	8.489	-0.004	491516	98217				
C26	8.757	-0.008	557900	550938				
C28	9.290	0.005	640615	223711				
C32	10.239	-0.004	847729	1306304				
C34	10.681	-0.000	865603	764427				
Filter Peak	12.650	-0.000	213232	84835	CREOSOT	(C12-C22)	3605357	924.2
C36	11.130	0.001	692159	413129				
C38	11.649	-0.001	503231	200454				
C40	12.293	0.004	305287	287895				
o-terph	6.649	-0.008	4022	3699				
Triacon Surr	9.789	-0.013	8762887	8519530	NAS DIES	(C10-C24)	14444503	74.0

Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
 NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	3699	0.0
Triacontane	8519530	47.9 M

M Indicates the peak was manually integrated

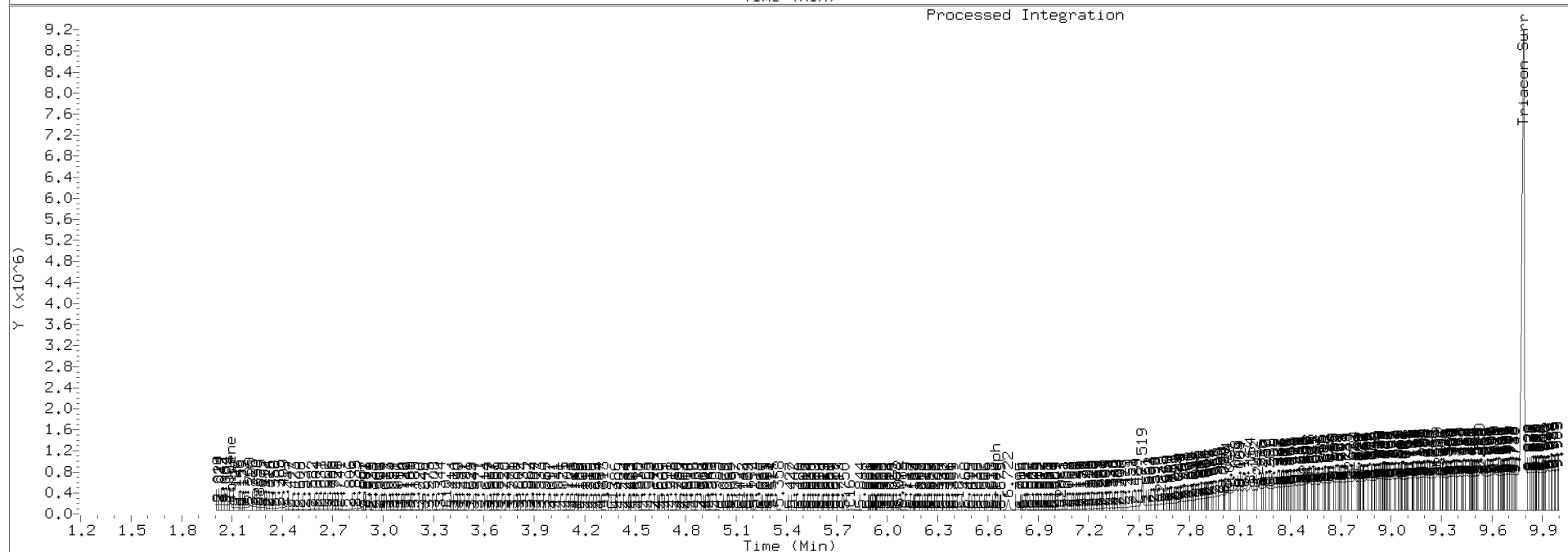
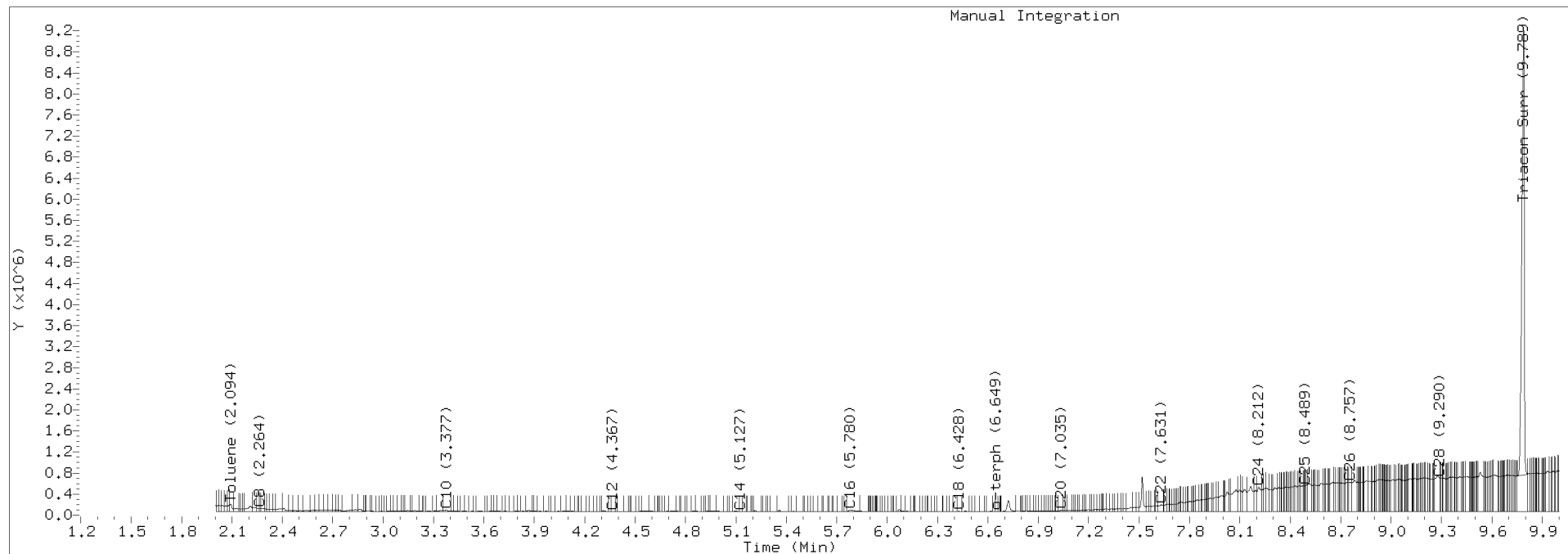
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	07-OCT-2019
Creosote	3900.9	08-OCT-2019



TPH Manual Integrations Report

Datafile: FID4A, 20191025.b/419J2520.D Injection: 25-OCT-2019 18:14

Lab ID:SHJ0406-SCV2





SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DA00022

Laboratory ID: SIF0018-SCV1

Sequence: SIF0018

Sequence Name: MOIL SCV

Standard ID: I004757

ANALYTE	EXPECTED (mg/L)	FOUND (mg/L)	% DRIFT	QC LIMIT
Motor Oil Range Organics (C24-C38)	1000.0	952	-4.8	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0211.D

Date : 02-JUN-2020 10:55

Client ID:

Sample Info: SIF0018-SCV1

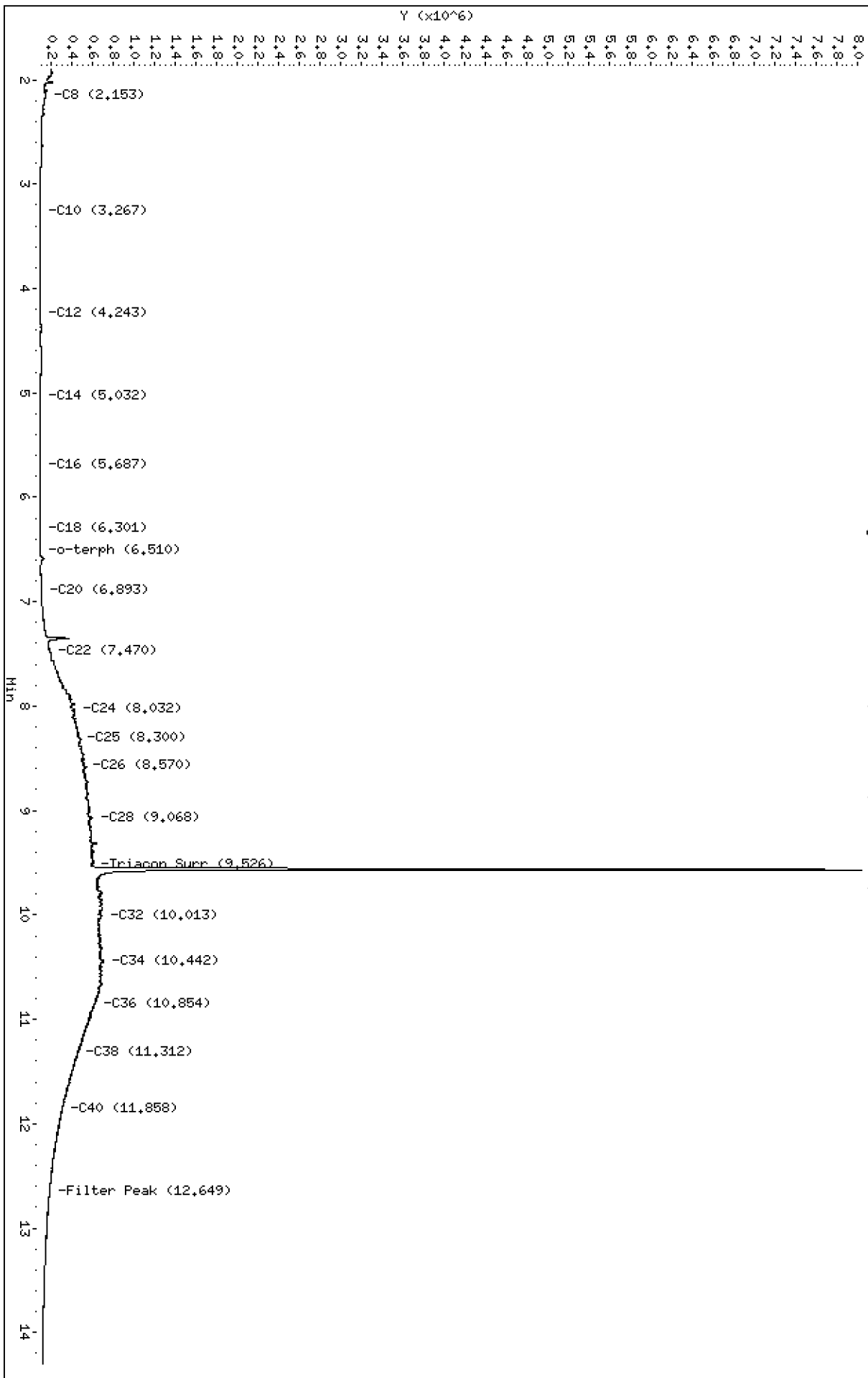
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200602_b\420F0211.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200602.b/420F0211.D
Method: 20200602.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 06/02/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SIF0018-SCV1
Client ID:
Injection: 02-JUN-2020 10:55
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

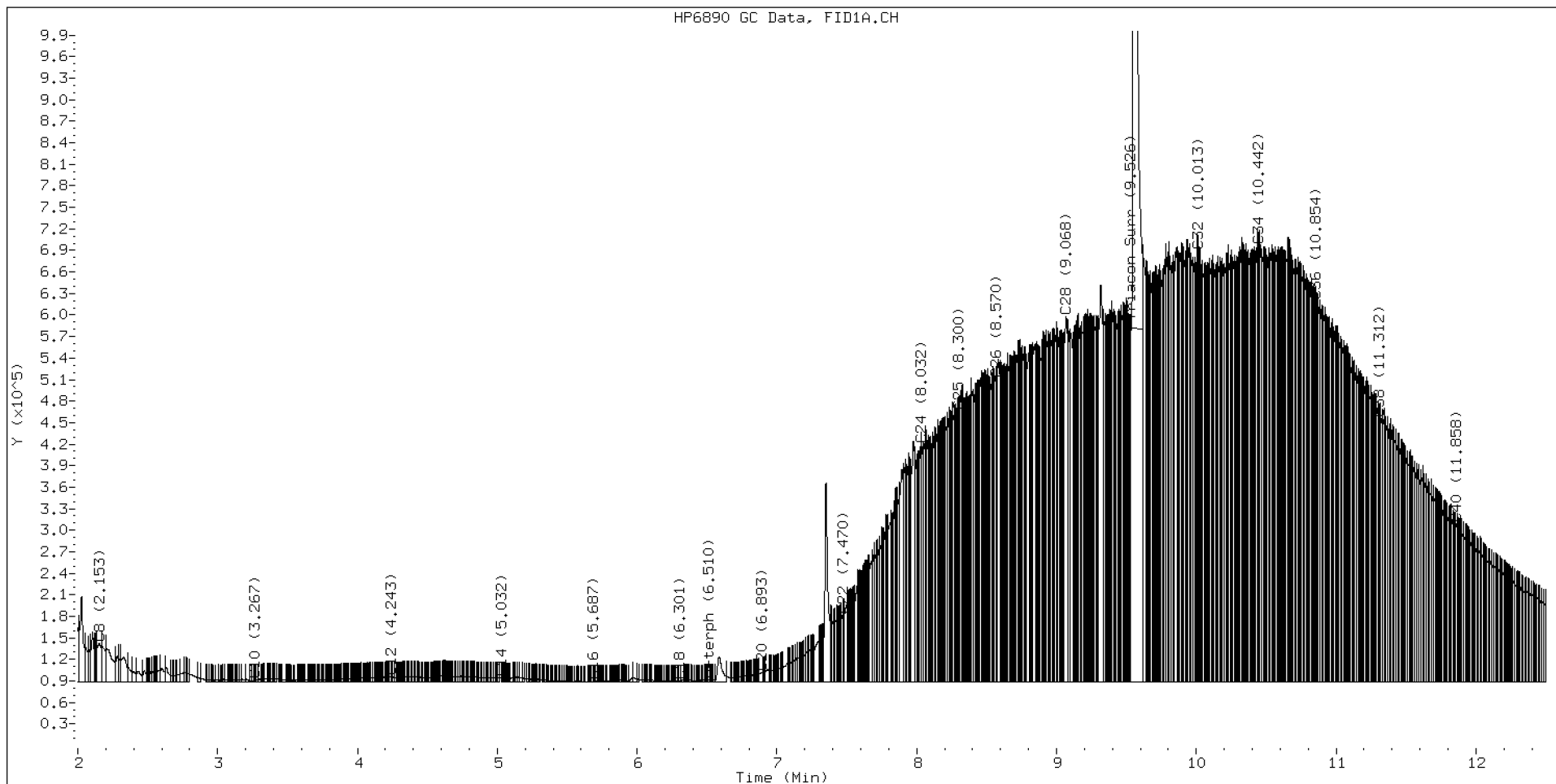
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.153	-0.003	53793	112352	WATPHD	(C12-C24)	10130617	63.6
C10	3.267	-0.001	3184	1798	WATPHM	(C24-C38)	96339891	952.3
C12	4.243	-0.001	6309	3433	AK102	(C10-C25)	13696411	70.1
C14	5.032	0.010	5041	1965	AK103	(C25-C36)	81704578	1116.1
C16	5.687	-0.002	418	225	OR.DIES	(C10-C28)	36730595	187.4
C18	6.301	0.002	1584	1331				
C20	6.893	0.005	13152	18749	JET-A	(C10-C18)	637720	3.8
C22	7.470	0.003	92369	58795				
C24	8.032	0.002	330875	354349				
C25	8.300	-0.001	376891	169098				
C26	8.570	0.005	421264	147085				
C28	9.068	-0.008	508527	807405				
C32	10.013	0.001	600890	237363				
C34	10.442	0.001	608272	242751				
Filter Peak	12.649	-0.003	94447	119849	CREOSOT	(C12-C22)	2566539	62.2
C36	10.854	-0.001	530087	263622				
C38	11.312	0.002	366594	183102				
C40	11.858	-0.003	220172	173259				
o-terph	6.510	0.003	2949	1966				
Triacon Surr	9.567	-0.013	7460477	7161172	NAS DIES	(C10-C24)	10346316	53.0

Range Times: NW Diesel(4.244 - 8.029) AK102(3.27 - 8.30) Jet A(3.27 - 6.30)
NW M.Oil(8.03 - 11.31) AK103(8.30 - 10.86) OR Diesel(3.27 - 9.08)

Surrogate	Area	Amount
o-Terphenyl	1966	0.0
Triacontane	7161172	48.3 M

M Indicates the peak was manually integrated

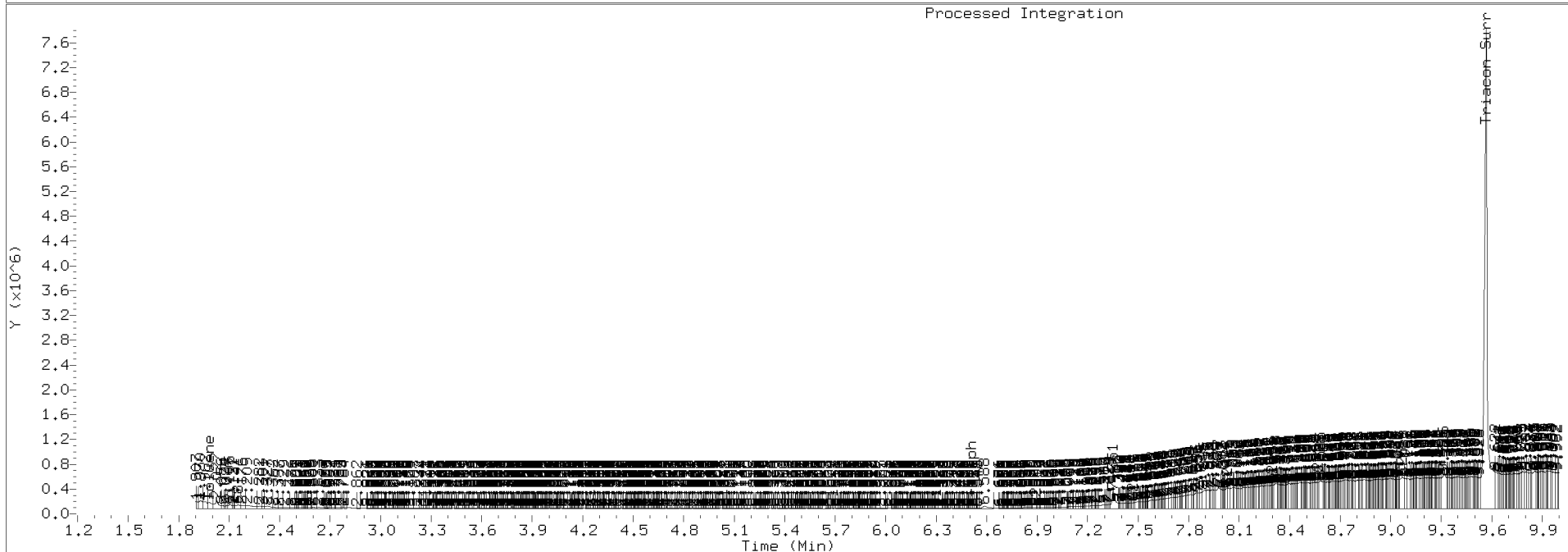
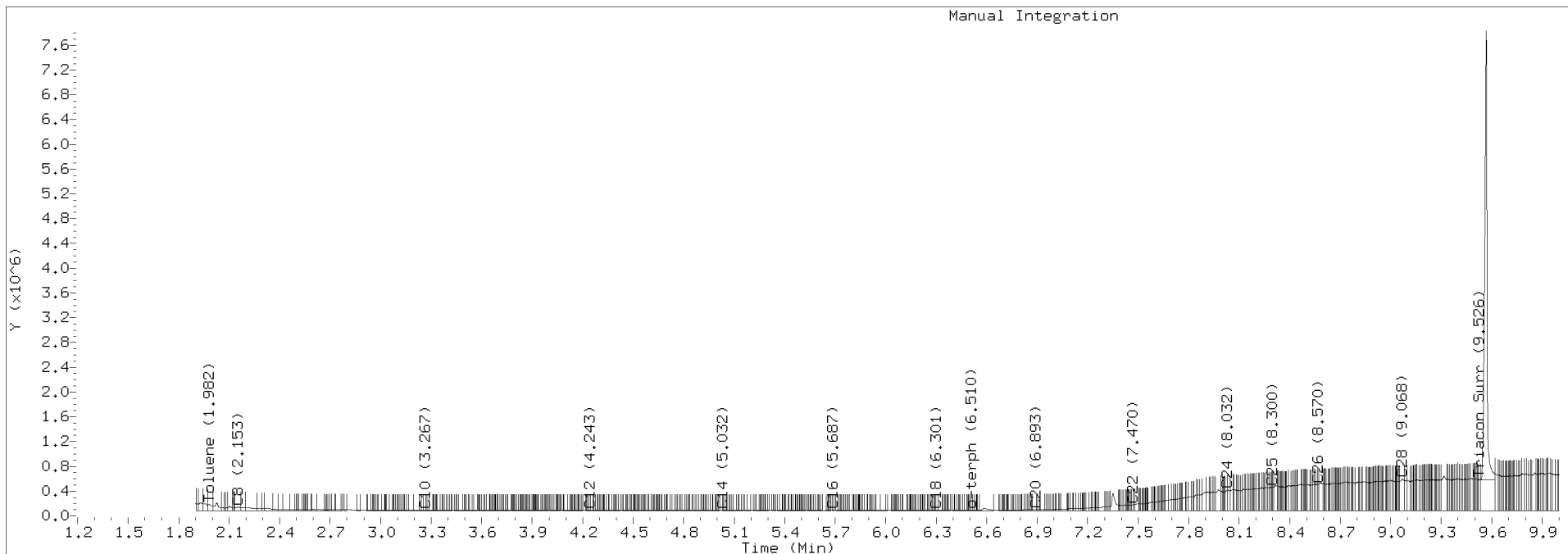
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0211.D Injection: 02-JUN-2020 10:55

Lab ID:SIF0018-SCV1



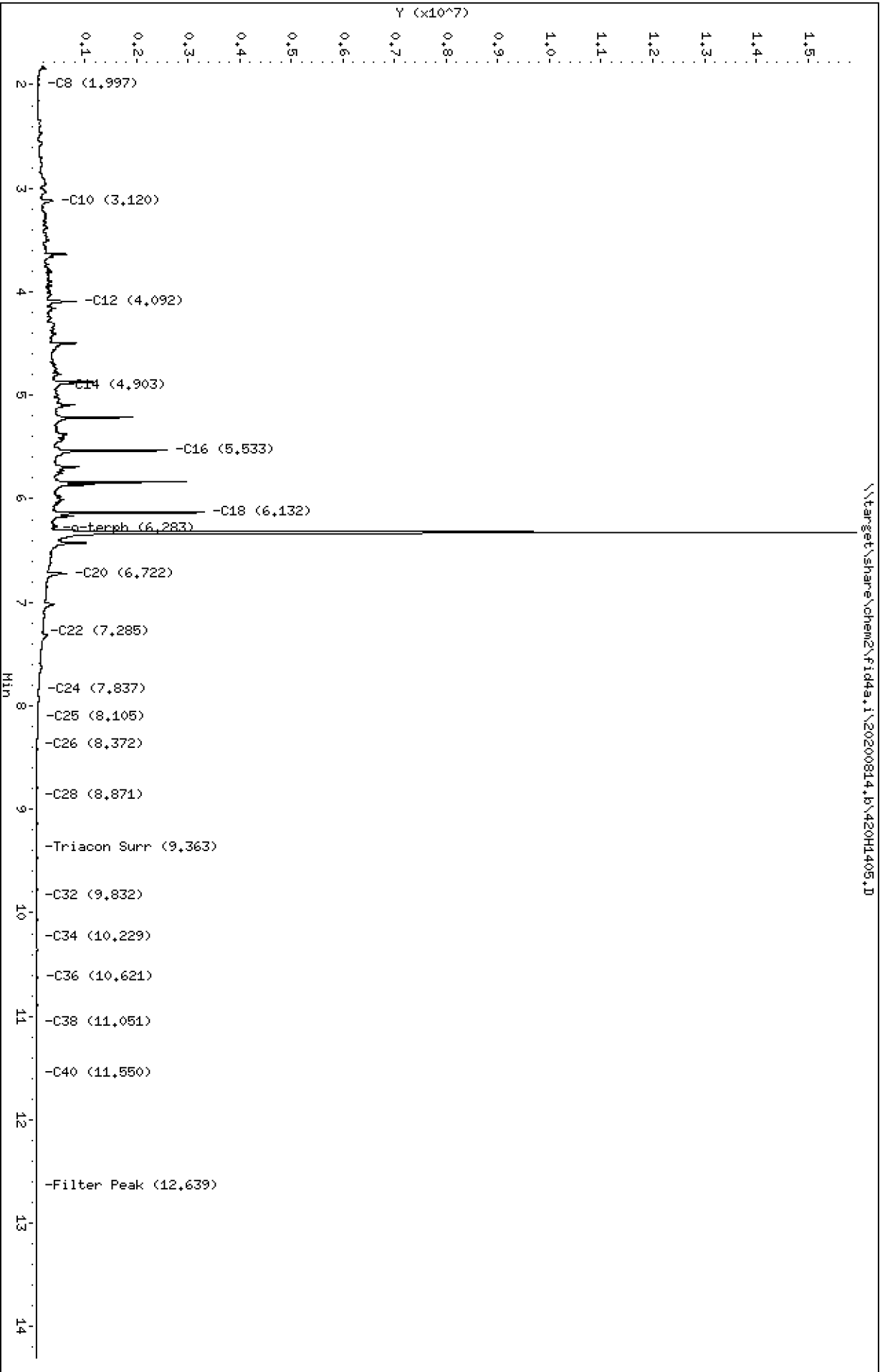
Data File: \\target\share\chem2\fid4a,1\20200814,b\420H1405.D
Date: 14-AUG-2020 09:22
Client ID:
Sample Info: SEQ-ICV1

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200814.b/420H1405.D
Method: 20200814.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/24/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-ICV1
Client ID:
Injection: 14-AUG-2020 09:22
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

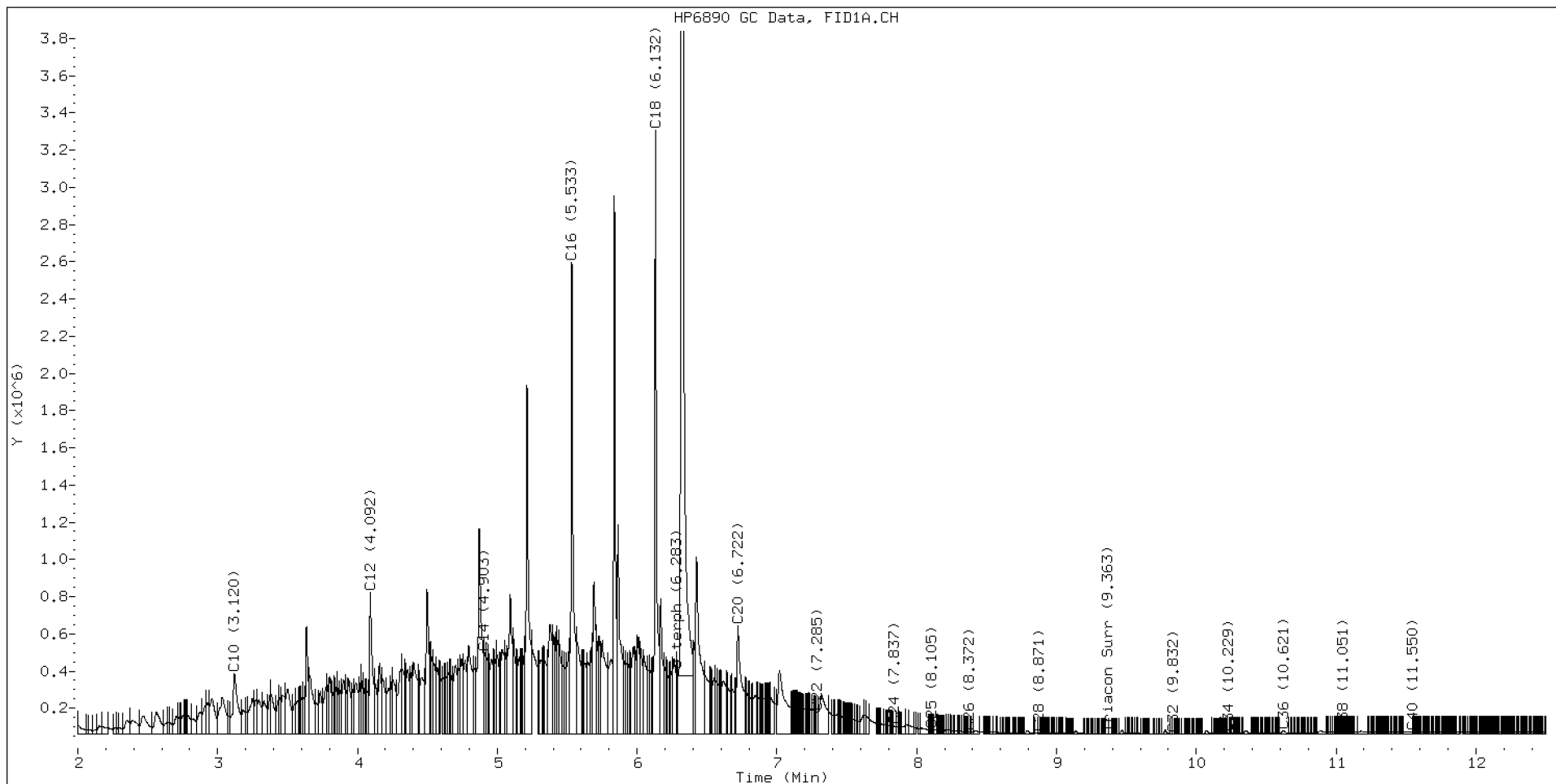
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.997	0.005	40843	33627	WATPHD	(C12-C24)	71964855	451.7
C10	3.120	0.014	325072	797990	WATPHM	(C24-C38)	1266216	12.5
C12	4.092	0.004	762319	1032736	AK102	(C10-C25)	85535496	437.5
C14	4.903	0.007	433964	108282	AK103	(C25-C36)	721257	9.9
C16	5.533	-0.006	2534947	2843734	OR.DIES	(C10-C28)	85979845	438.7
C18	6.132	-0.001	3241659	3021147				
C20	6.722	0.001	579946	1361381	JET-A	(C10-C18)	66259303	399.5
C22	7.285	-0.002	118208	75763				
C24	7.837	0.000	40860	41994				
C25	8.105	-0.002	21635	11645				
C26	8.372	0.002	11121	7081				
C28	8.871	-0.006	3180	2563				
C32	9.832	0.024	787	464				
C34	10.229	-0.003	1539	966				
Filter Peak	12.639	0.003	9157	2736	CREOSOT	(C12-C22)	70189113	778.8
C36	10.621	-0.016	16397	34426				
C38	11.051	-0.001	7695	3810				
C40	11.550	0.003	9095	2723				
o-terph	6.329	-0.001	15571273	16308043				
Triacon Surr	9.363	-0.016	1148	1070	NAS DIES	(C10-C24)	85166215	436.4

Range Times: NW Diesel(4.087 - 7.837) AK102(3.11 - 8.11) Jet A(3.11 - 6.13)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	16308043	79.7 M
Triacontane	1070	0.0

M Indicates the peak was manually integrated

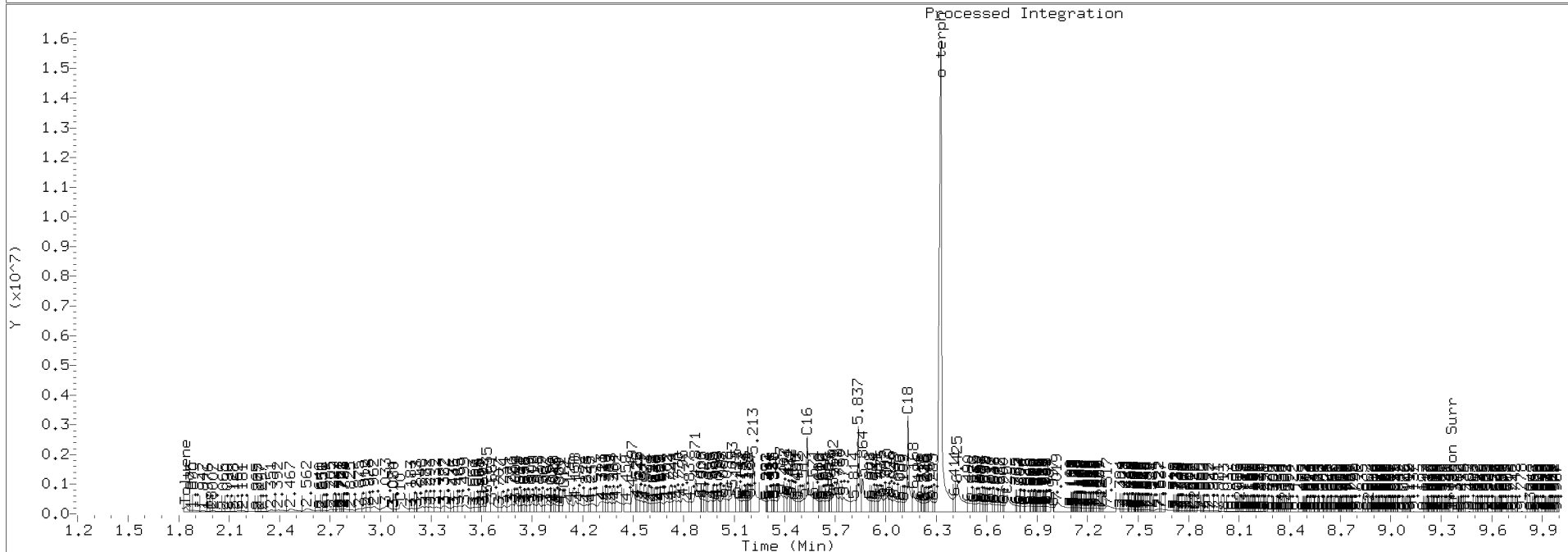
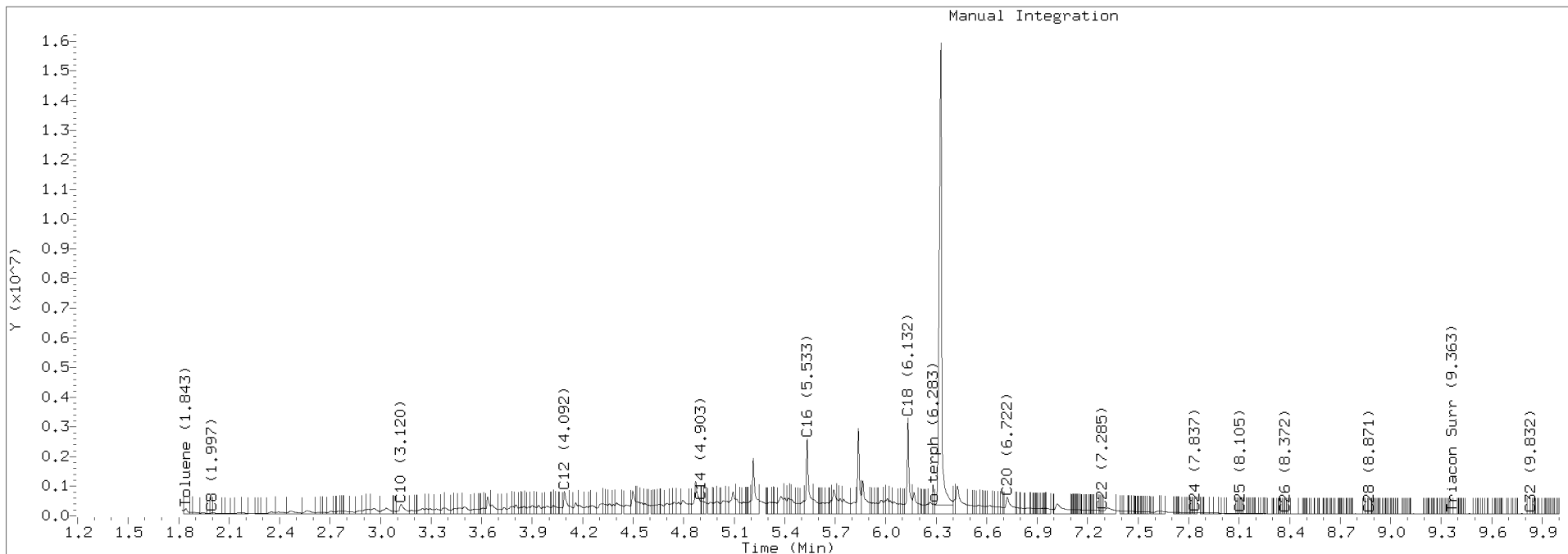
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200814.b/420H1405.D Injection: 14-AUG-2020 09:22

Lab ID:SEQ-ICV1



Data File: \\target\share\chem2\fid4a,1\20200814,b\420H1406.D
Date: 14-AUG-2020 09:42

Client ID:
Sample Info: SEQ-ICV2

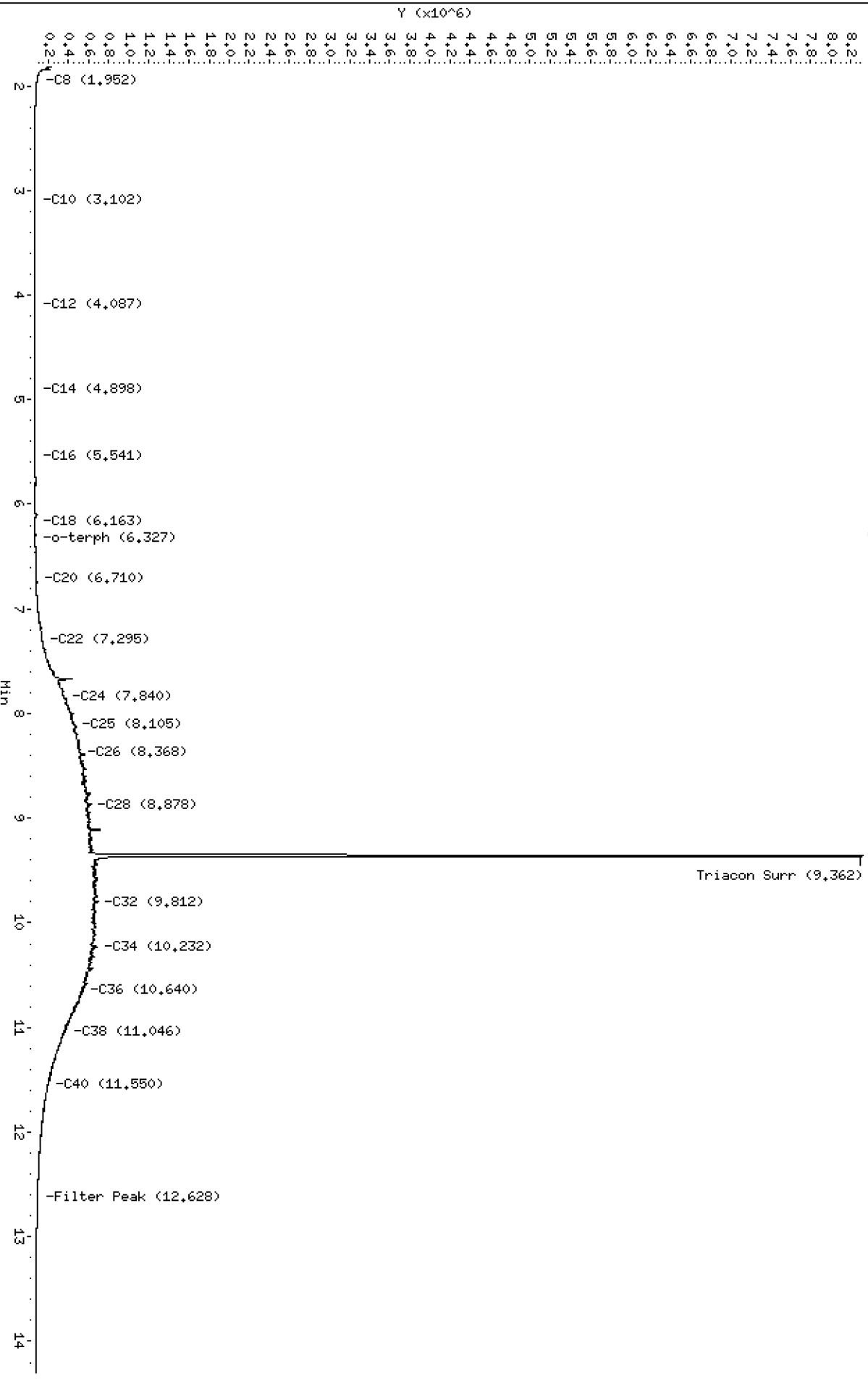
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200814,b\420H1406.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200814.b/420H1406.D
Method: 20200814.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/24/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-ICV2
Client ID:
Injection: 14-AUG-2020 09:42
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

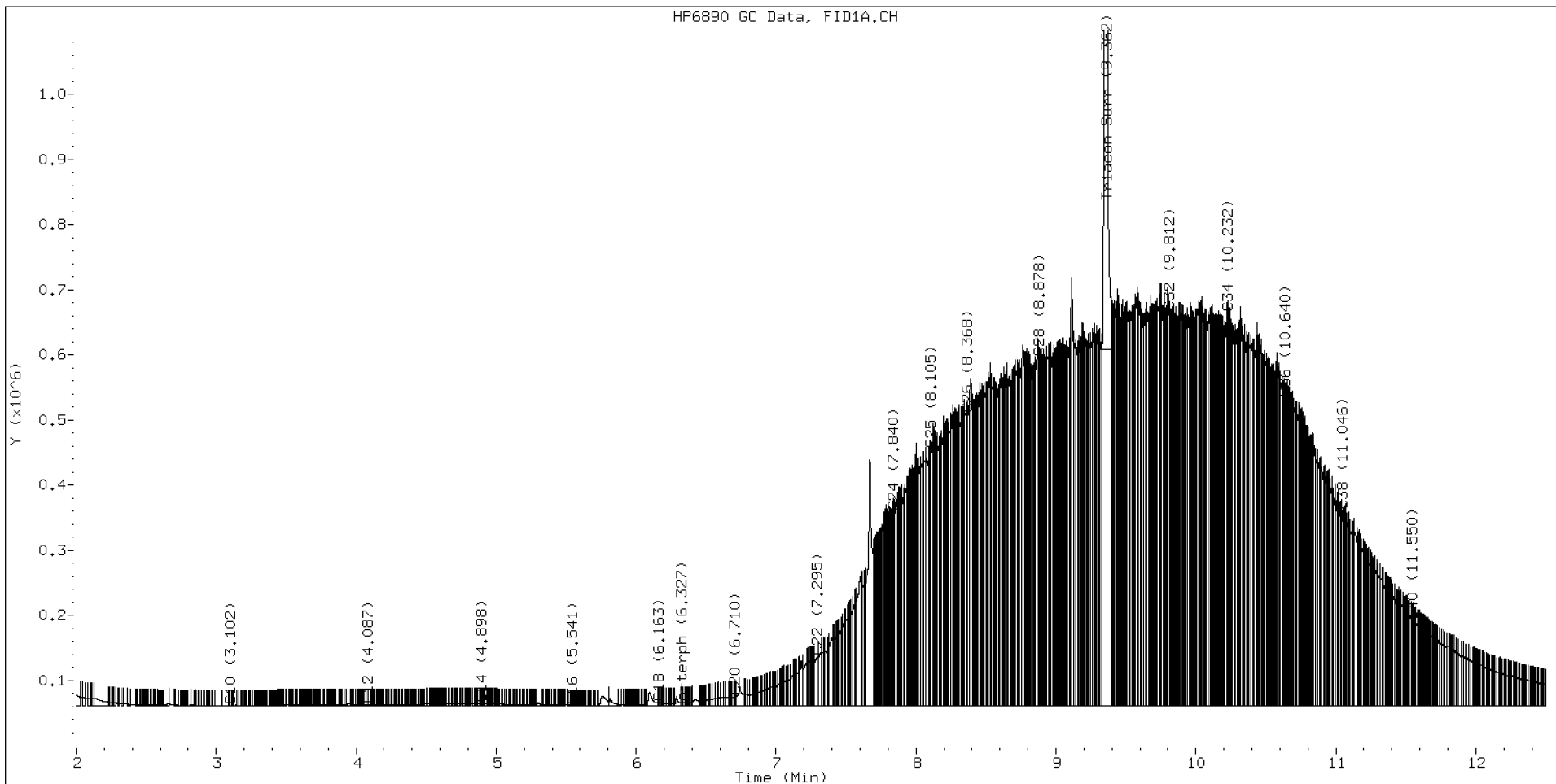
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.952	-0.040	27354	110814	WATPHD	(C12-C24)	8523012	53.5
C10	3.102	-0.003	255	112	WATPHM	(C24-C38)	95960311	948.5
C12	4.087	0.000	2131	1346	AK102	(C10-C25)	11966648	61.2
C14	4.898	0.002	3194	2177	AK103	(C25-C36)	83706743	1143.4
C16	5.541	0.002	1038	632	OR.DIES	(C10-C28)	36398609	185.7
C18	6.163	0.030	4516	2215				
C20	6.710	-0.011	14096	9040	JET-A	(C10-C18)	432804	2.6
C22	7.295	0.008	75479	100922				
C24	7.840	0.003	297736	162736				
C25	8.105	-0.002	394411	214332				
C26	8.368	-0.002	447994	199611				
C28	8.878	0.002	535084	186033				
C32	9.812	0.005	605145	418061				
C34	10.232	0.000	604345	298395				
Filter Peak	12.628	-0.008	28457	21262	CREOSOT	(C12-C22)	2078742	23.1
C36	10.640	0.003	472588	118020				
C38	11.046	-0.006	299292	202630				
C40	11.550	0.003	130300	25939				
o-terph	6.327	-0.002	4981	3653				
Triacon Surr	9.362	-0.017	7713313	6999831	NAS DIES	(C10-C24)	8620055	44.2

Range Times: NW Diesel(4.087 - 7.837) AK102(3.11 - 8.11) Jet A(3.11 - 6.13)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	3653	0.0
Triacontane	6999831	47.2 M

M Indicates the peak was manually integrated

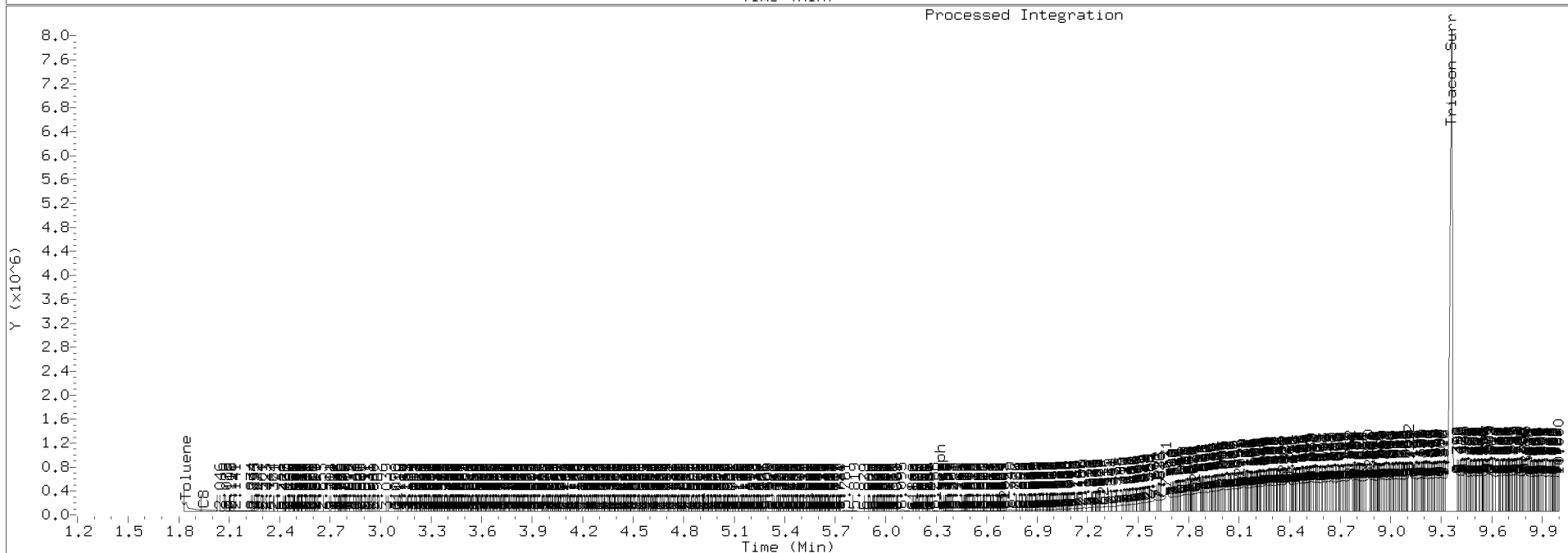
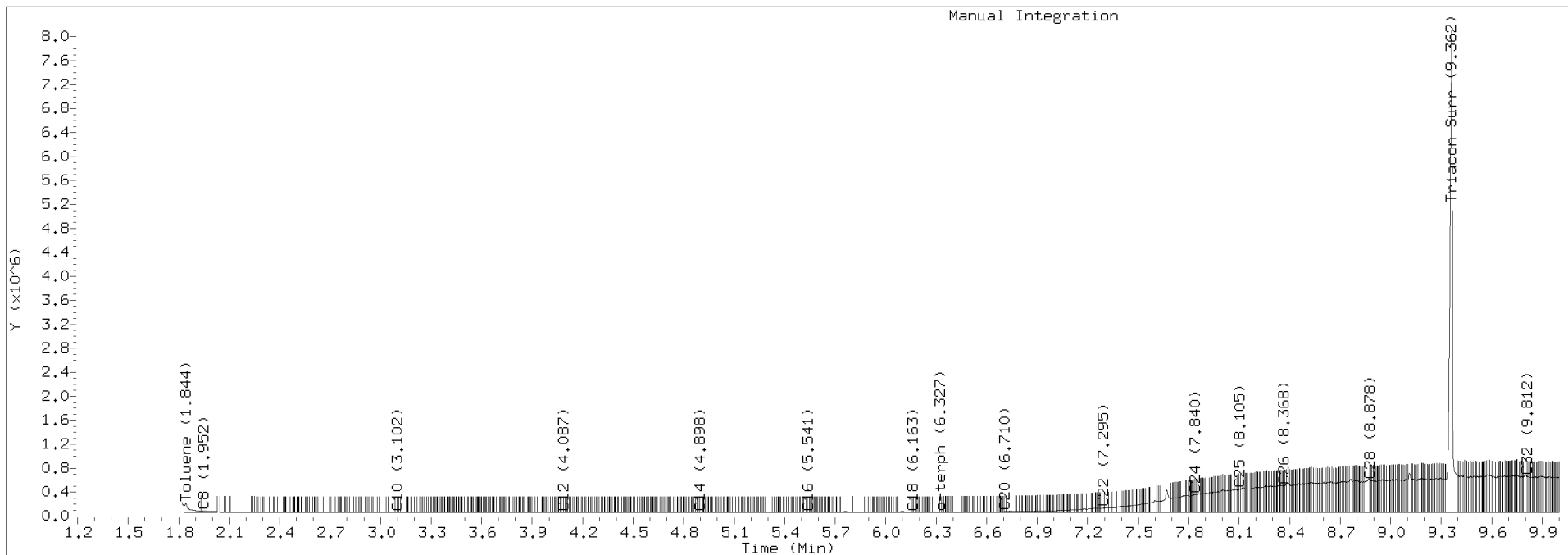
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200814.b/420H1406.D Injection: 14-AUG-2020 09:42

Lab ID:SEQ-ICV2



Data File: \\target\share\chem2\fid4a,1\20200814,b\420H1407.D
Date: 14-AUG-2020 10:01

Client ID:

Sample Info: SEQ-ICV3

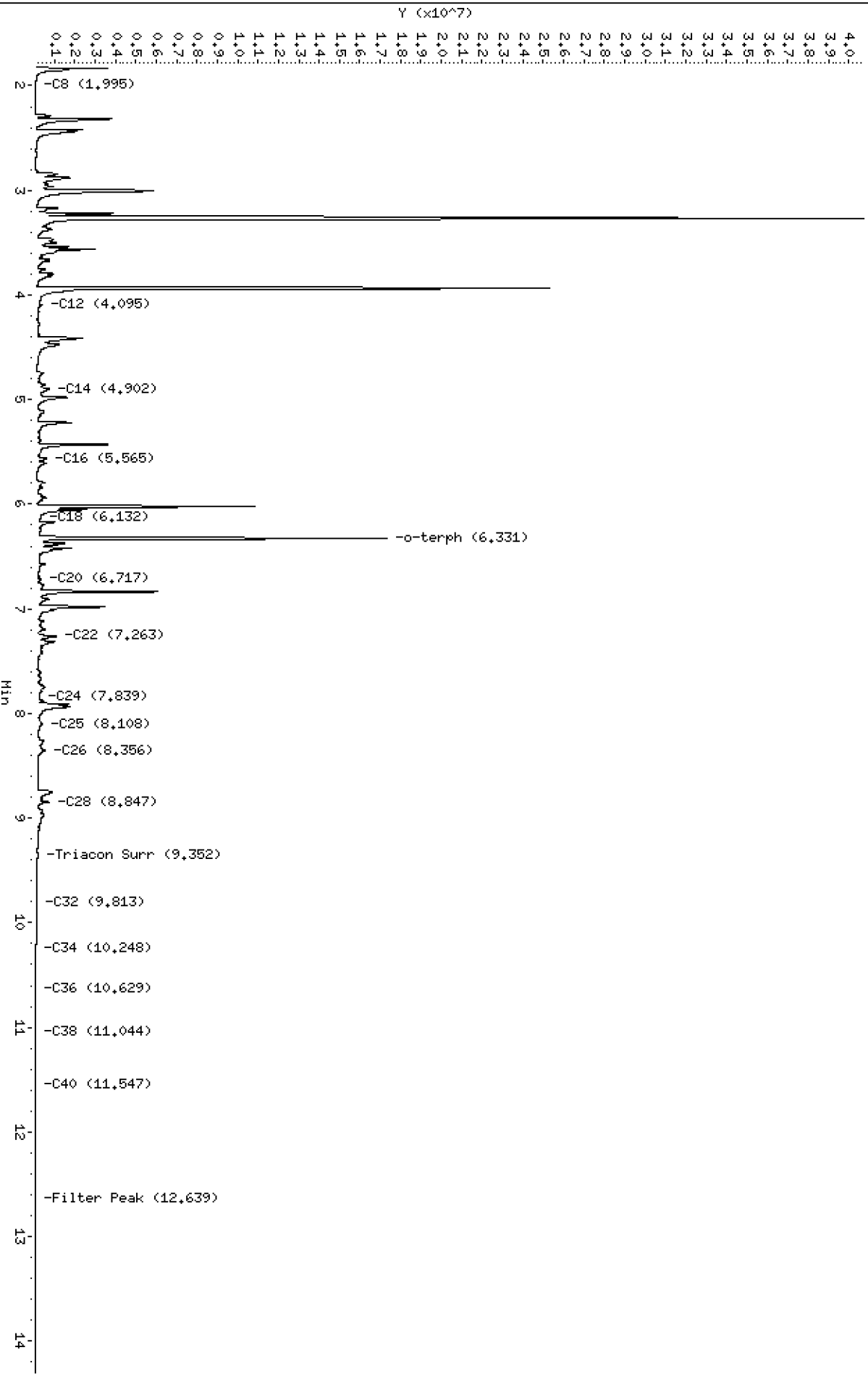
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200814,b\420H1407.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200814.b/420H1407.D
Method: 20200814.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/24/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-ICV3
Client ID:
Injection: 14-AUG-2020 10:01
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

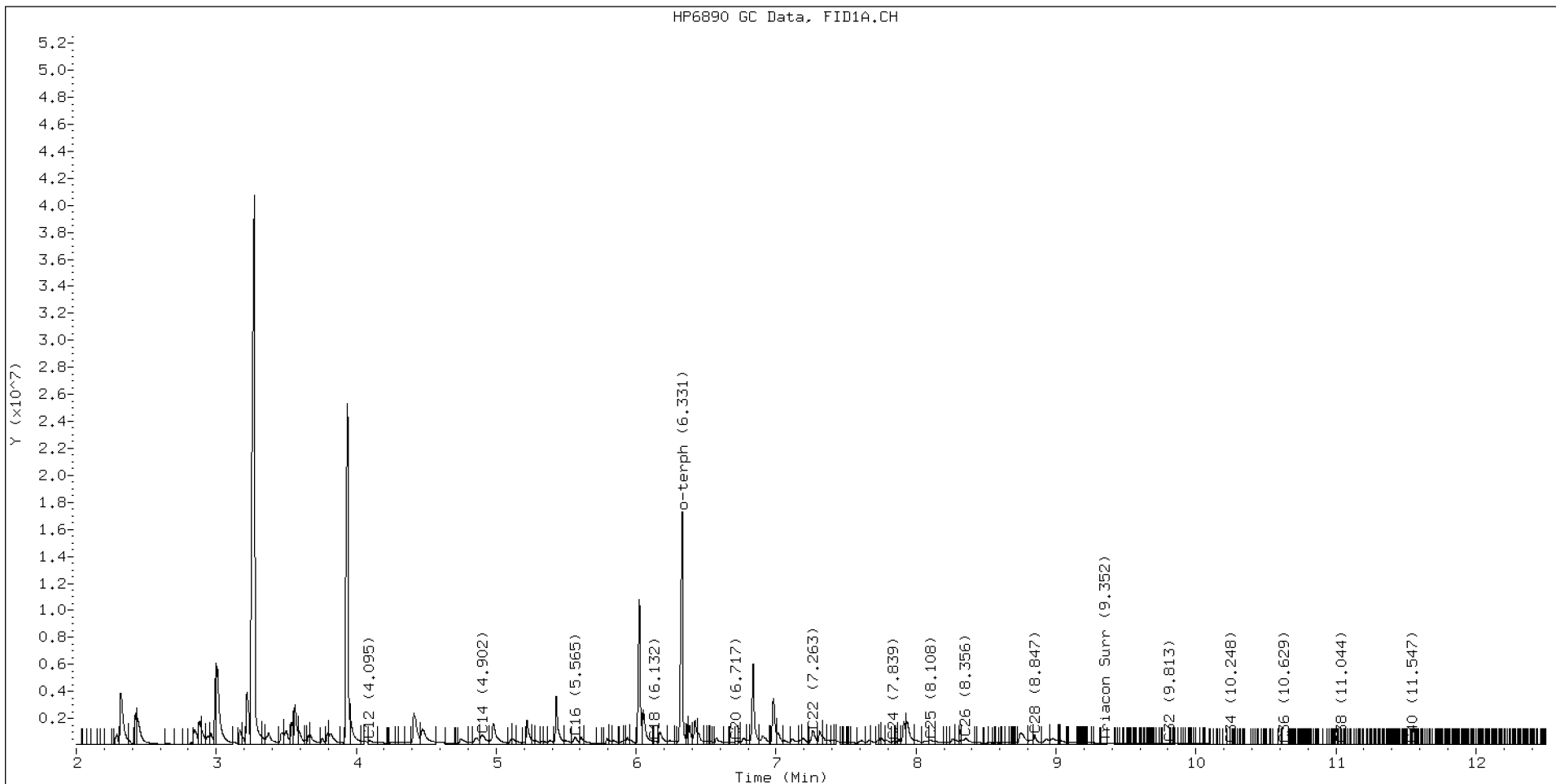
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.995	0.003	22887	55158	WATPHD	(C12-C24)	92828242	582.6
C10	----				WATPHM	(C24-C38)	26861032	265.5
C12	4.095	0.008	349995	800879	AK102	(C10-C25)	210603257	1077.3
C14	4.902	0.005	666284	1890511	AK103	(C25-C36)	20444376	279.3
C16	5.565	0.025	549111	1124692	OR.DIES	(C10-C28)	222677683	1136.1
C18	6.132	-0.001	250901	386399				
C20	6.717	-0.004	257524	297197	JET-A	(C10-C18)	164715487	993.2
C22	7.263	-0.024	1047046	2032919				
C24	7.839	0.002	208540	262238				
C25	8.108	0.001	320836	813365				
C26	8.356	-0.015	466637	1653208				
C28	8.847	-0.029	666562	1184662				
C32	9.813	0.006	83137	231165				
C34	10.248	0.016	30043	17822				
Filter Peak	12.639	0.003	3214	1594	CREOSOT	(C12-C22)	86419480	958.8
C36	10.629	-0.008	16478	42743				
C38	11.044	-0.007	11170	9935				
C40	11.547	-0.000	6136	2129				
o-terph	6.331	0.001	17243823	17897827				
Triacon Surr	9.352	-0.026	119154	254054	NAS DIES	(C10-C24)	204463147	1047.7

Range Times: NW Diesel(4.087 - 7.837) AK102(3.11 - 8.11) Jet A(3.11 - 6.13)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	17897827	87.4
Triacontane	254054	1.7

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



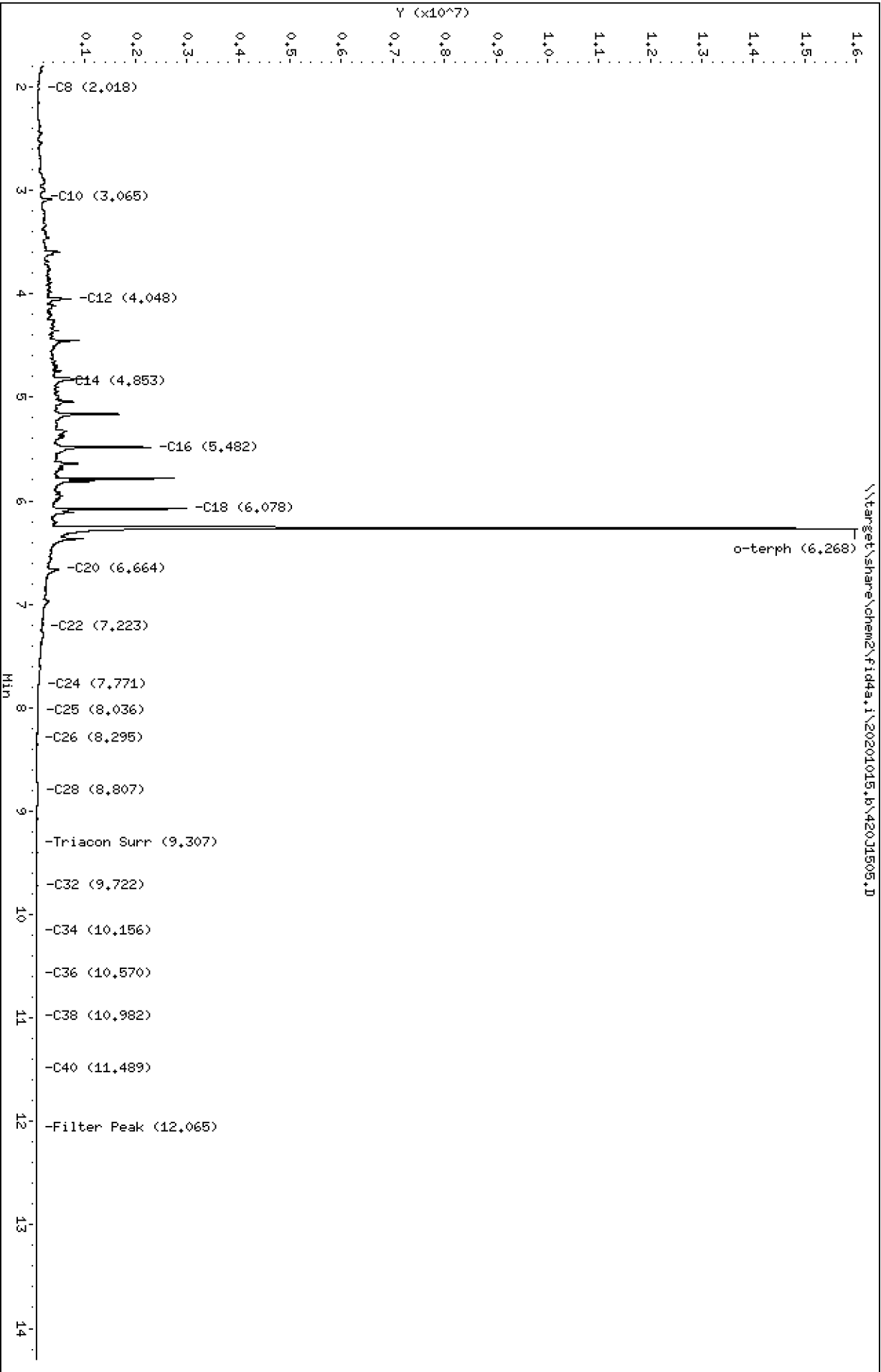
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Date: 15-OCT-2020 13:20
Client ID:
Sample Info: SEQ-ICV1

Instrument: fid4a,1

Page 1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1505.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-ICV1
Client ID:
Injection: 15-OCT-2020 13:20
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

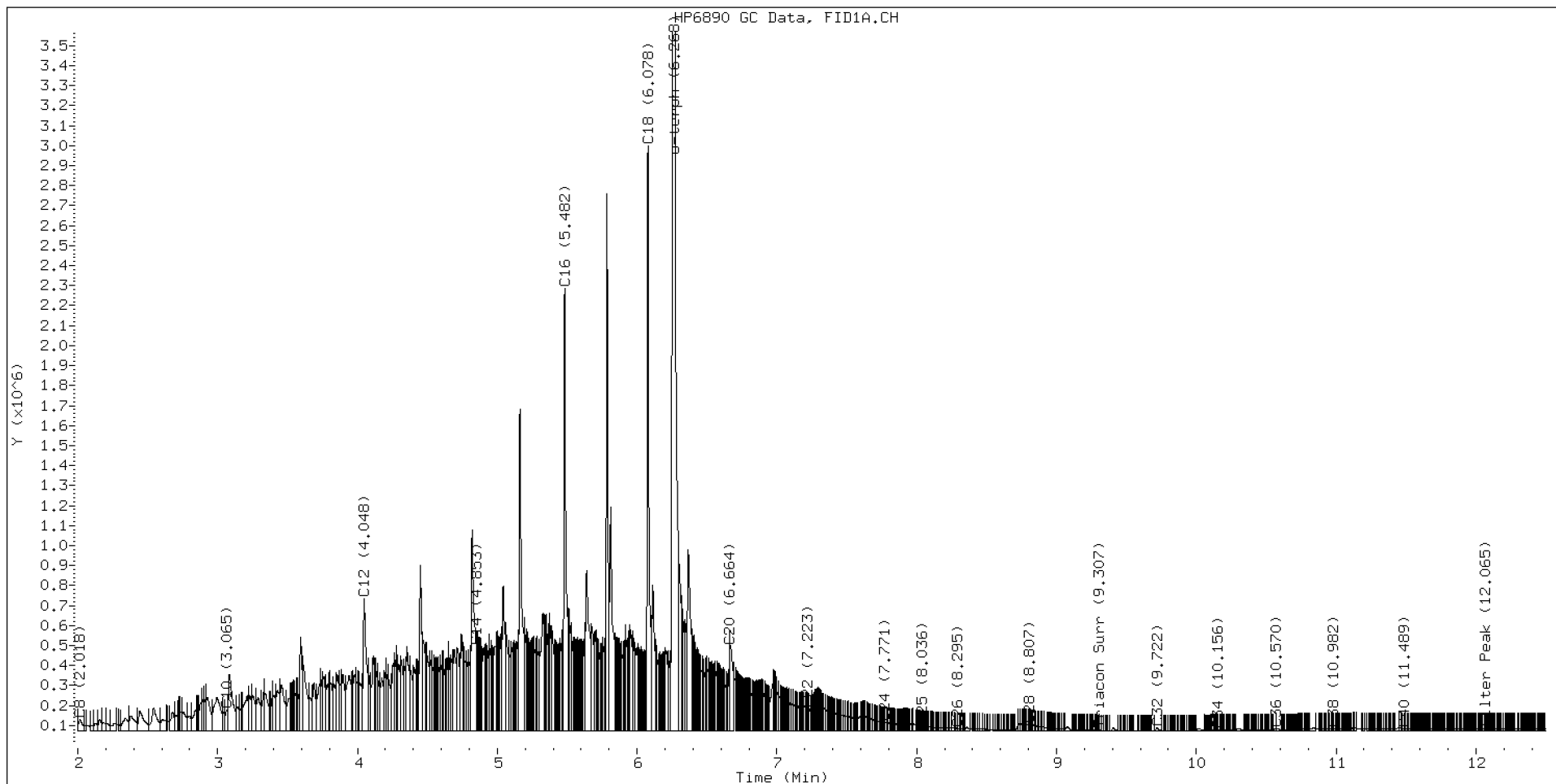
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.018	0.012	53351	100291	WATPHD	(C12-C24)	72062650	452.3
C10	3.065	-0.005	104480	104254	WATPHM	(C24-C38)	1625228	16.1
C12	4.048	0.005	662199	994403	AK102	(C10-C25)	85014138	434.9
C14	4.853	0.005	420314	125035	AK103	(C25-C36)	1105320	15.1
C16	5.482	-0.007	2209781	2360649	OR.DIES	(C10-C28)	85705686	437.3
C18	6.078	-0.001	2923639	2602260				
C20	6.664	0.004	420093	312869	JET-A	(C10-C18)	66081113	398.4
C22	7.223	0.001	109062	63380				
C24	7.771	0.002	41867	38557				
C25	8.036	-0.002	22253	6626				
C26	8.295	-0.006	11310	9895				
C28	8.807	0.003	29695	11494				
C32	9.722	-0.013	13569	18033				
C34	10.156	-0.004	1480	568				
Filter Peak	12.065	-0.001	10411	4143	CREOSOT	(C12-C22)	69652450	772.8
C36	10.570	0.003	11469	9686				
C38	10.982	0.002	8783	3063				
C40	11.489	0.004	11161	7757				
o-terph	6.268	-0.001	15946173	16482003				
Triacon Surr	9.307	0.000	1165	340	NAS DIES	(C10-C24)	84665457	433.9

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	16482003	80.5
Triacontane	340	0.0

M Indicates the peak was manually integrated

Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



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Date: 15-OCT-2020 13:41

Client ID:
Sample Info: SEQ-ICV2

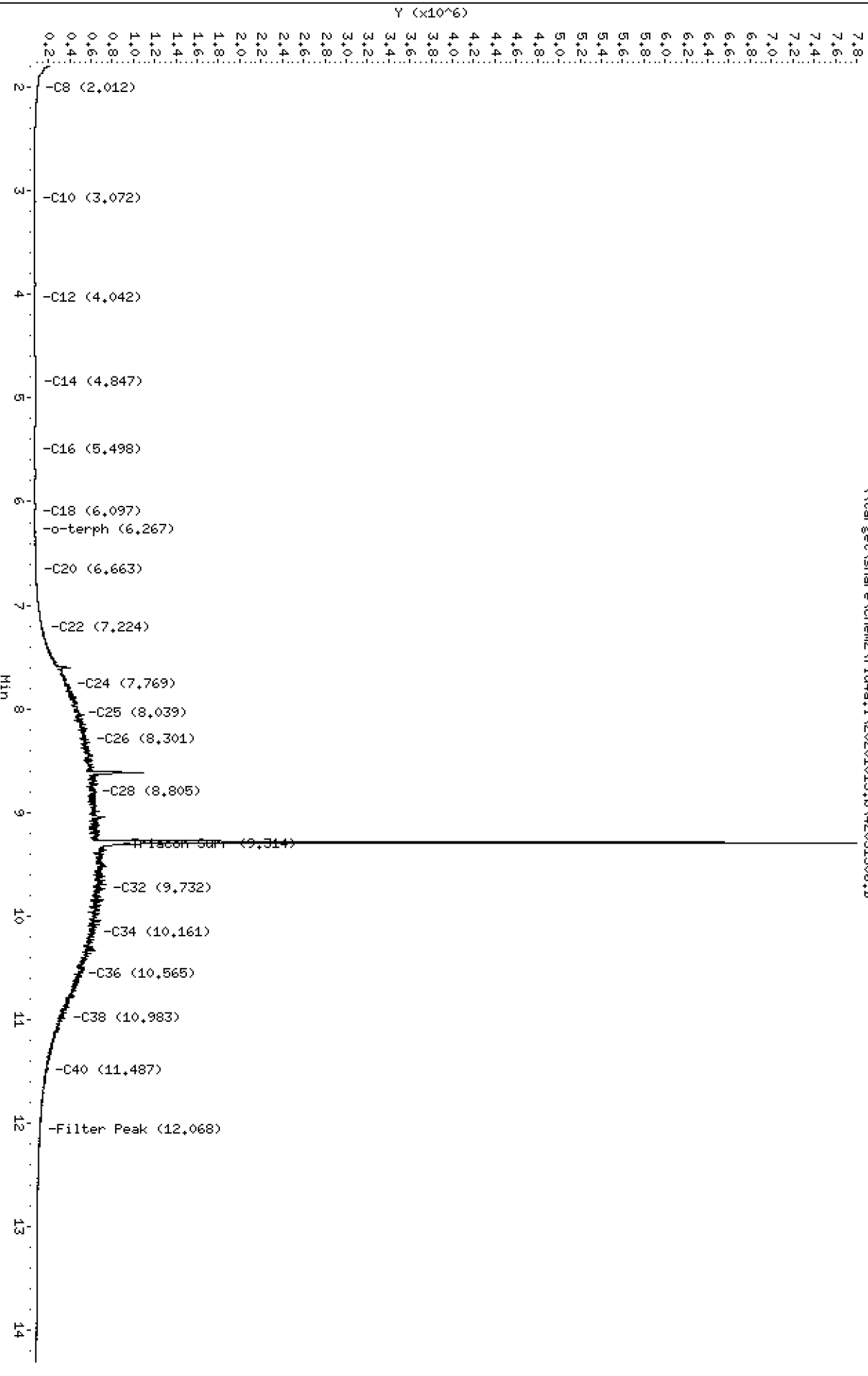
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20201015_b\4201506.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1506.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-ICV2
Client ID:
Injection: 15-OCT-2020 13:41
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

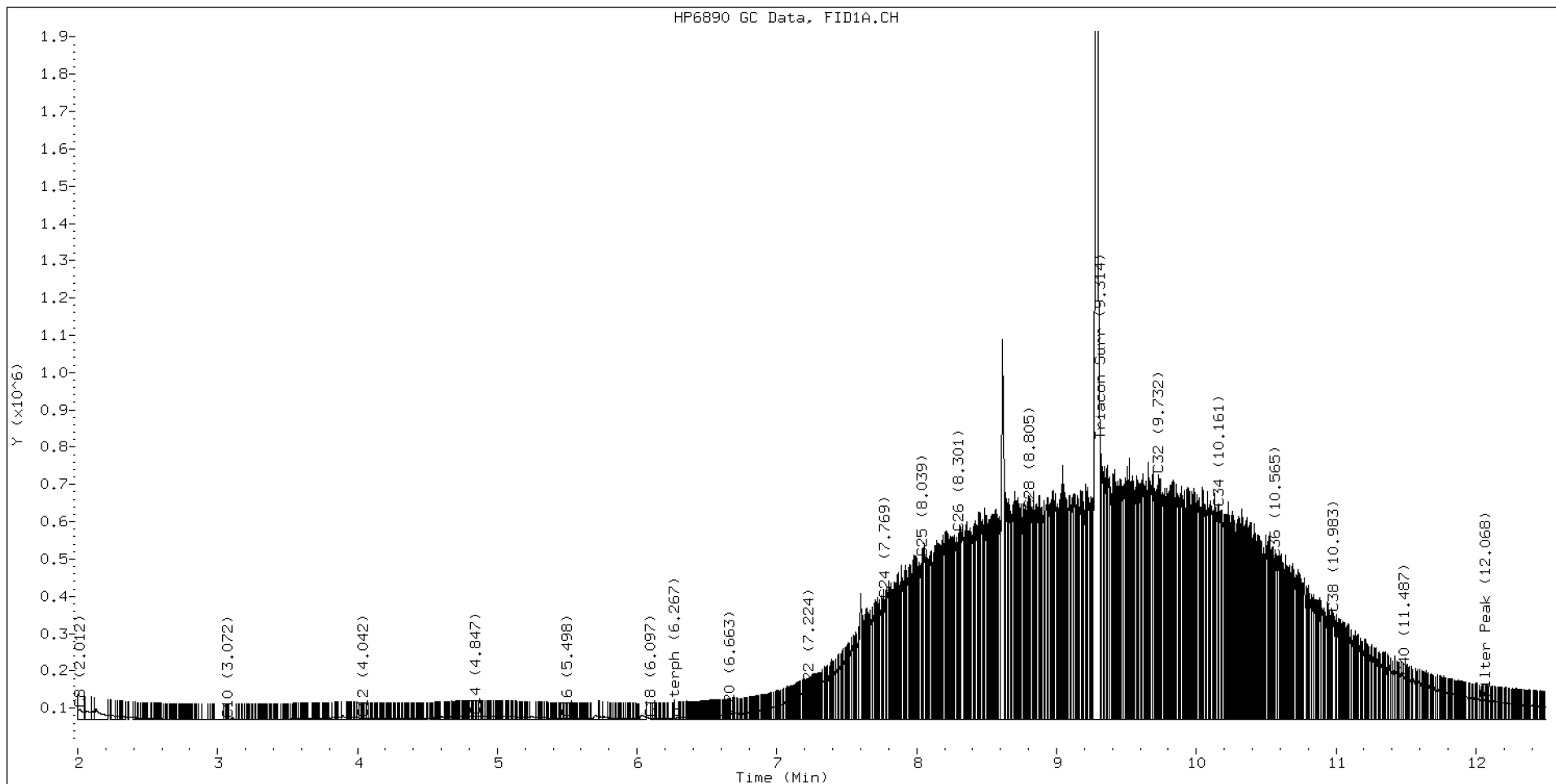
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.012	0.006	27765	58481	WATPHD	(C12-C24)	8903048	55.9
C10	3.072	0.003	318	136	WATPHM	(C24-C38)	102244458	1010.7
C12	4.042	0.000	5282	2542	AK102	(C10-C25)	12649451	64.7
C14	4.847	-0.001	9747	2425	AK103	(C25-C36)	90815179	1240.5
C16	5.498	0.009	4019	1198	OR.DIES	(C10-C28)	38359738	195.7
C18	6.097	0.018	4623	4682				
C20	6.663	0.003	15724	7693	JET-A	(C10-C18)	875983	5.3
C22	7.224	0.002	72645	31749				
C24	7.769	0.000	321904	215502				
C25	8.039	0.001	433951	345163				
C26	8.301	-0.001	500288	217638				
C28	8.805	0.001	563175	140245				
C32	9.732	-0.002	656315	252633				
C34	10.161	0.001	566741	247967				
Filter Peak	12.068	0.002	54385	28874	CREOSOT	(C12-C22)	2348947	26.1
C36	10.565	-0.002	429712	166198				
C38	10.983	0.004	286606	266290				
C40	11.487	0.001	117039	61871				
o-terph	6.267	-0.001	3889	1296				
Triacon Surr	9.314	0.008	746585	285879	NAS DIES	(C10-C24)	9095489	46.6

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	1296	0.0
Triacontane	285879	1.9

M Indicates the peak was manually integrated

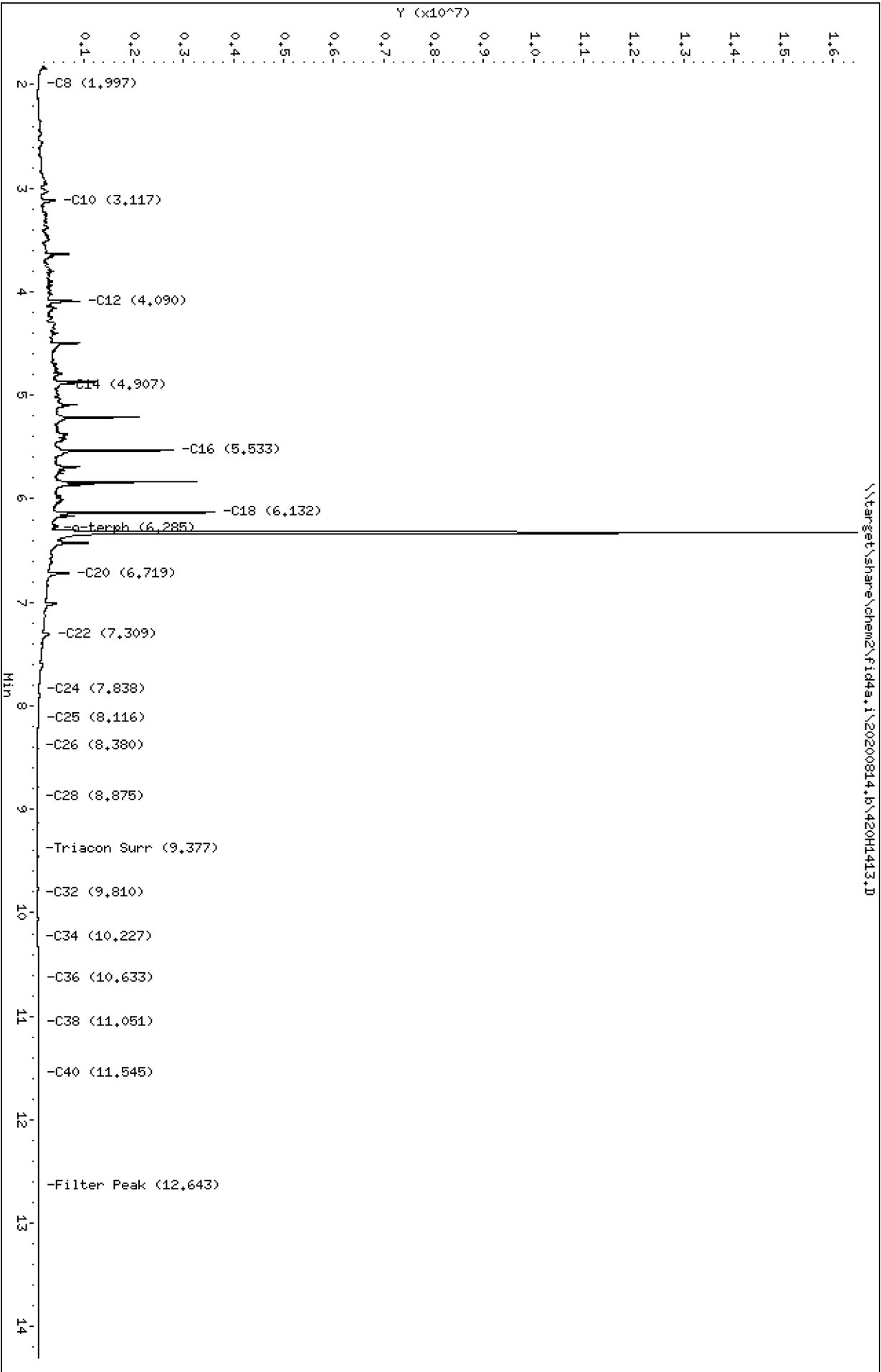
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



Data File: \\target\share\chem2\fid4a,1\20200814,b\420H1413.D
Date: 14-AUG-2020 11:59
Client ID:
Sample Info: SEQ-CCV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20200814.b/420H1413.D
Method: 20200814.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 08/24/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV1
Client ID:
Injection: 14-AUG-2020 11:59
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

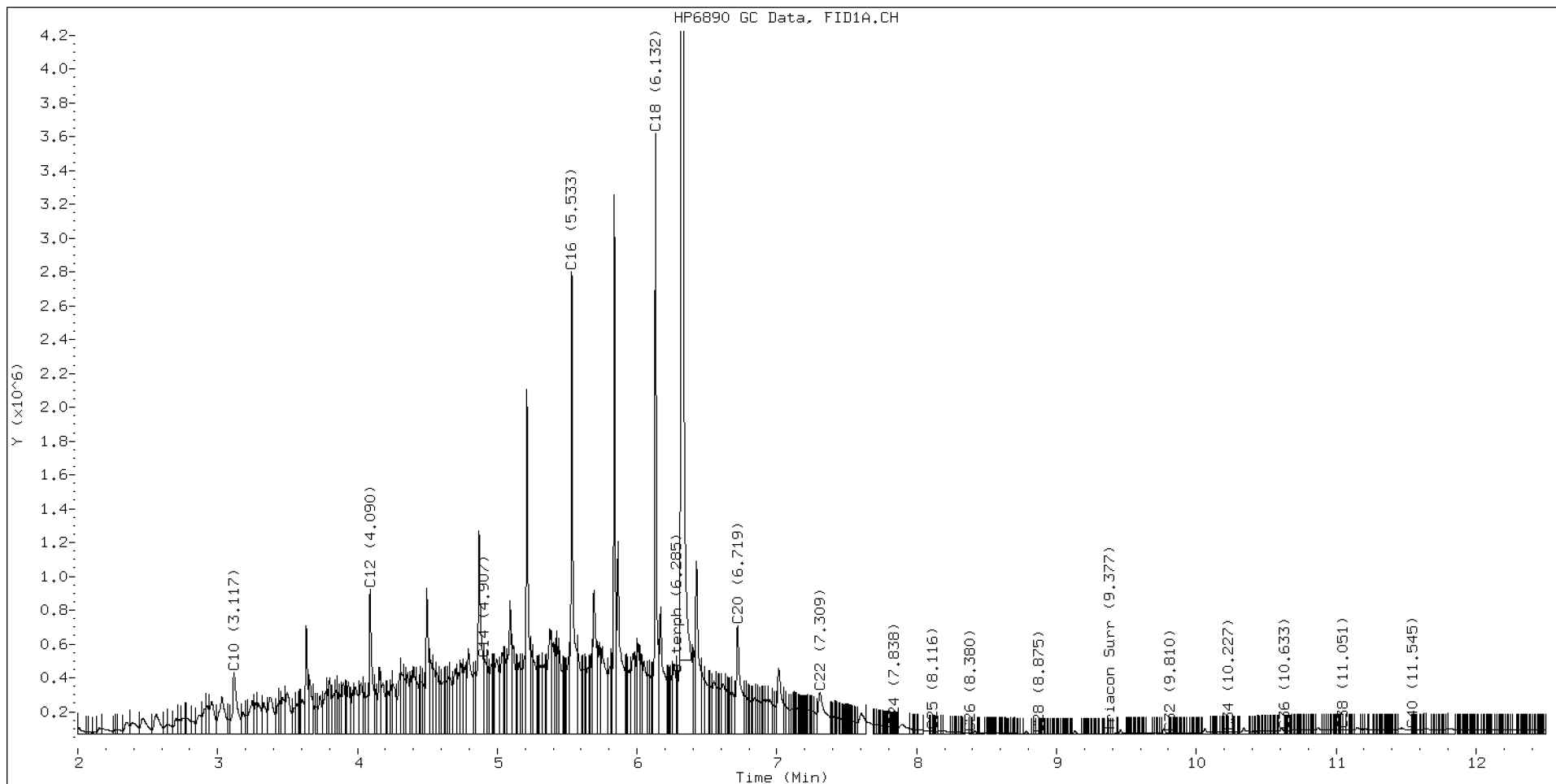
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.997	0.005	33555	26527	WATPHD	(C12-C24)	76604959	480.8
C10	3.117	0.011	360980	800884	WATPHM	(C24-C38)	2087736	20.6
C12	4.090	0.003	858002	1109180	AK102	(C10-C25)	90098220	460.9
C14	4.907	0.011	444696	641926	AK103	(C25-C36)	1192714	16.3
C16	5.533	-0.006	2733195	3097613	OR.DIES	(C10-C28)	90414159	461.3
C18	6.132	-0.001	3552120	3129904				
C20	6.719	-0.001	636483	1325665	JET-A	(C10-C18)	69968294	421.9
C22	7.309	0.022	248019	872467				
C24	7.838	0.001	39892	19883				
C25	8.116	0.009	16354	7274				
C26	8.380	0.009	7066	4723				
C28	8.875	-0.001	410	108				
C32	9.810	0.003	6271	1564				
C34	10.227	-0.005	10941	7550				
Filter Peak	12.643	0.007	25373	20242	CREOSOT	(C12-C22)	74914962	831.2
C36	10.633	-0.004	19294	9569				
C38	11.051	-0.001	25145	5023				
C40	11.545	-0.002	23988	7180				
o-terph	6.330	0.000	15978088	16235384				
Triacon Surr	9.377	-0.001	1405	784	NAS DIES	(C10-C24)	89766551	460.0

Range Times: NW Diesel(4.087 - 7.837) AK102(3.11 - 8.11) Jet A(3.11 - 6.13)
NW M.Oil(7.84 - 11.05) AK103(8.11 - 10.64) OR Diesel(3.11 - 8.88)

Surrogate	Area	Amount
o-Terphenyl	16235384	79.3 M
Triacontane	784	0.0

M Indicates the peak was manually integrated

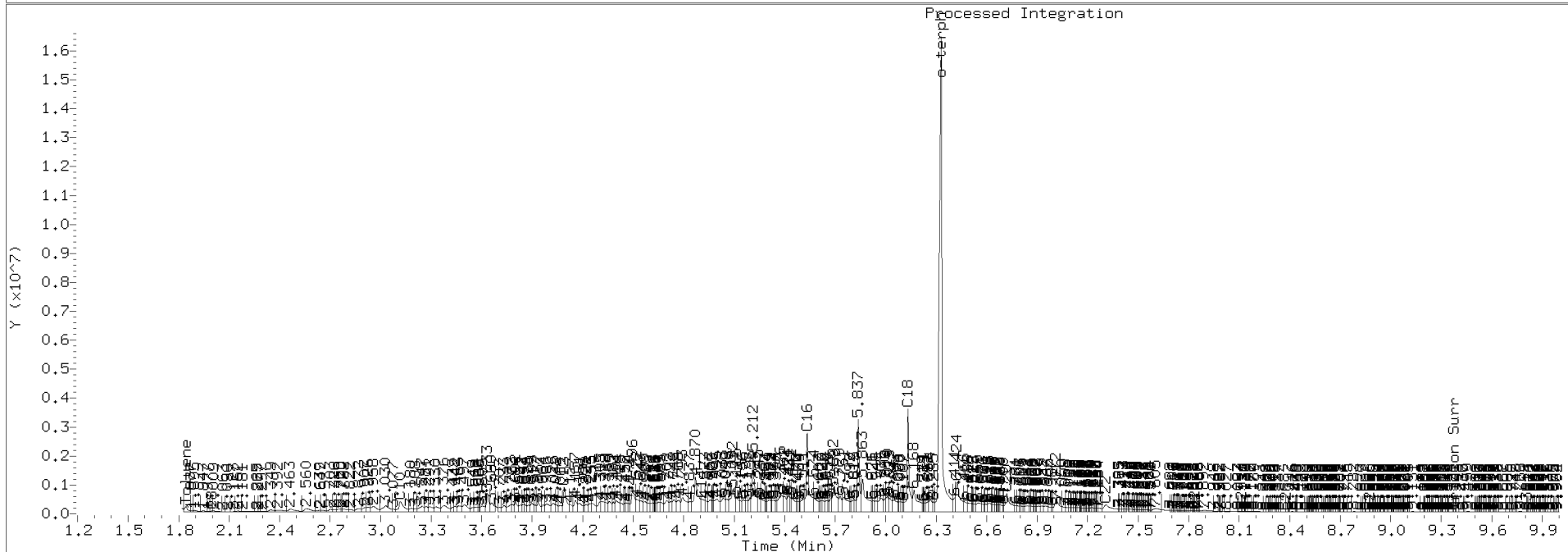
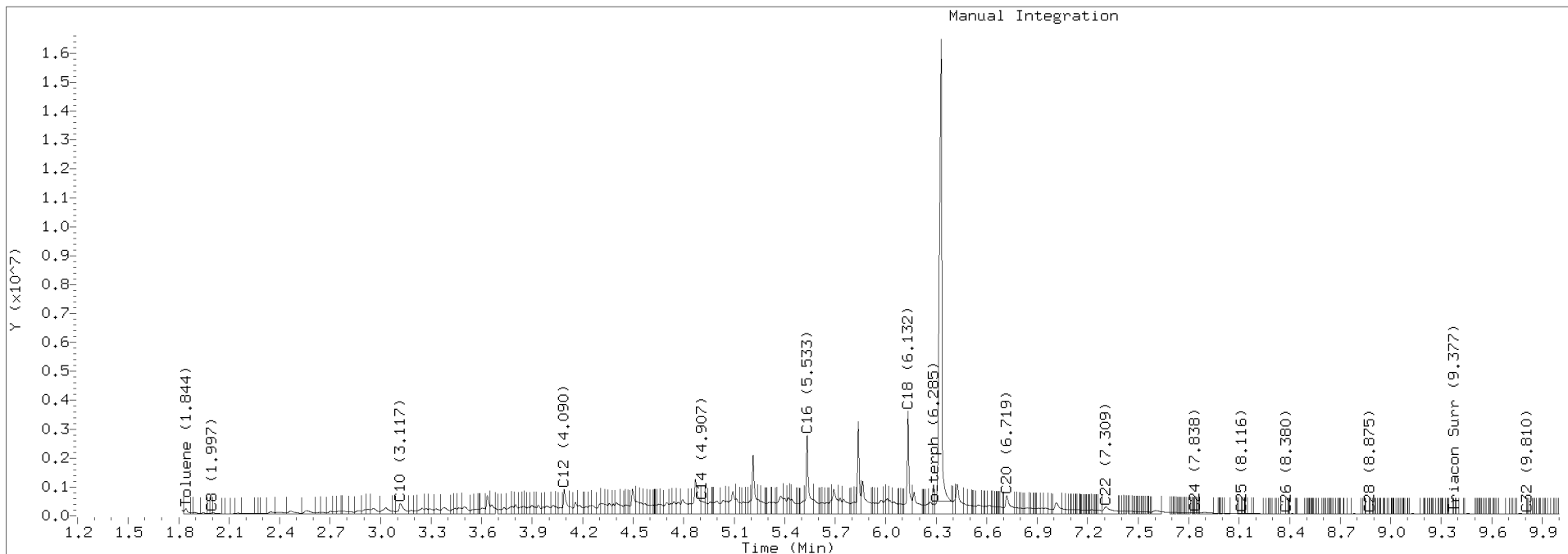
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200814.b/420H1413.D Injection: 14-AUG-2020 11:59

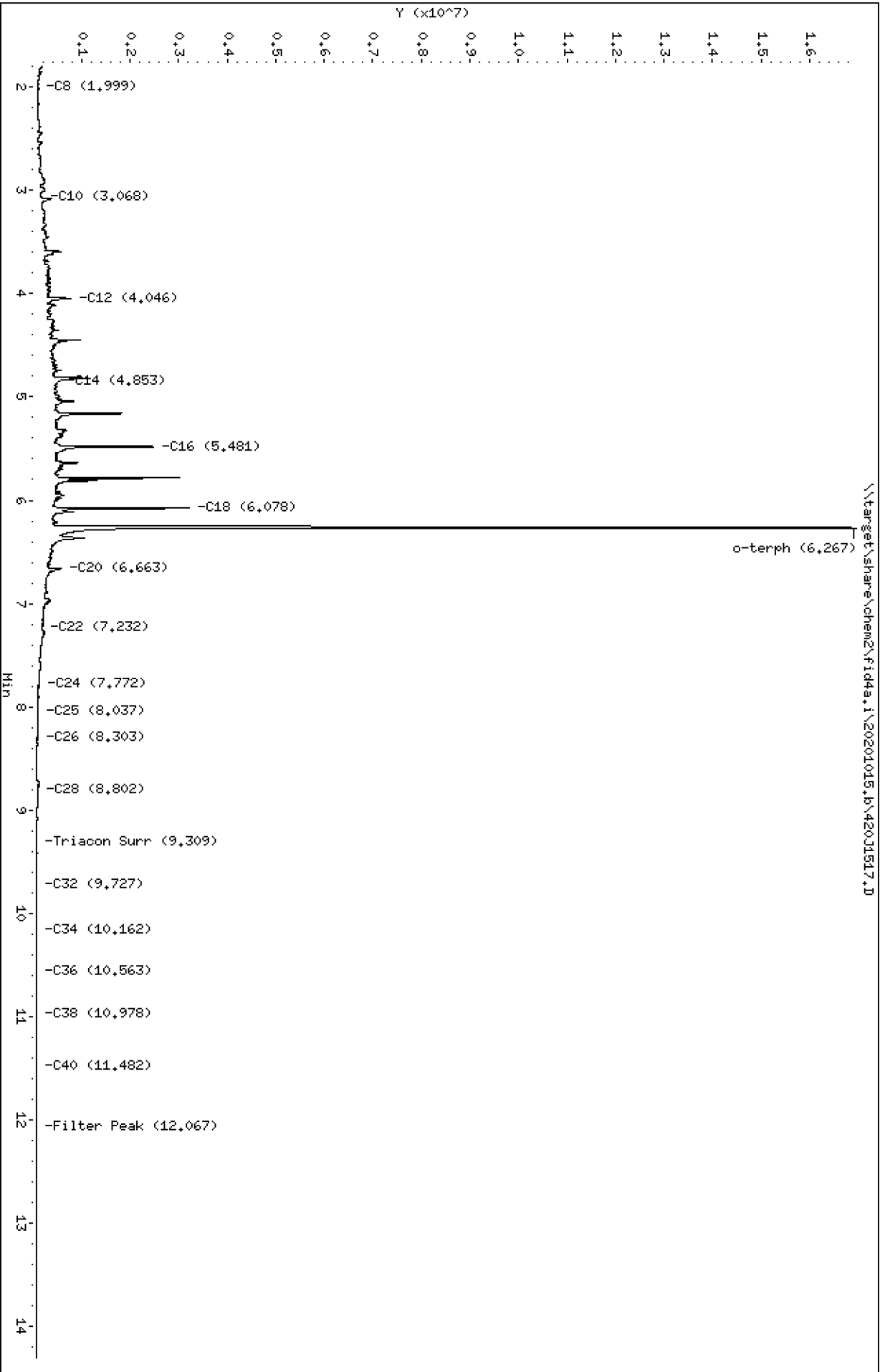
Lab ID:SEQ-CCV1



Data File: \\target\share\chem2\fid4a,1\20201015,8\4201517.D
Date: 15-OCT-2020 17:25
Client ID:
Sample Info: SEQ-CCV1

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1517.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV1
Client ID:
Injection: 15-OCT-2020 17:25
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

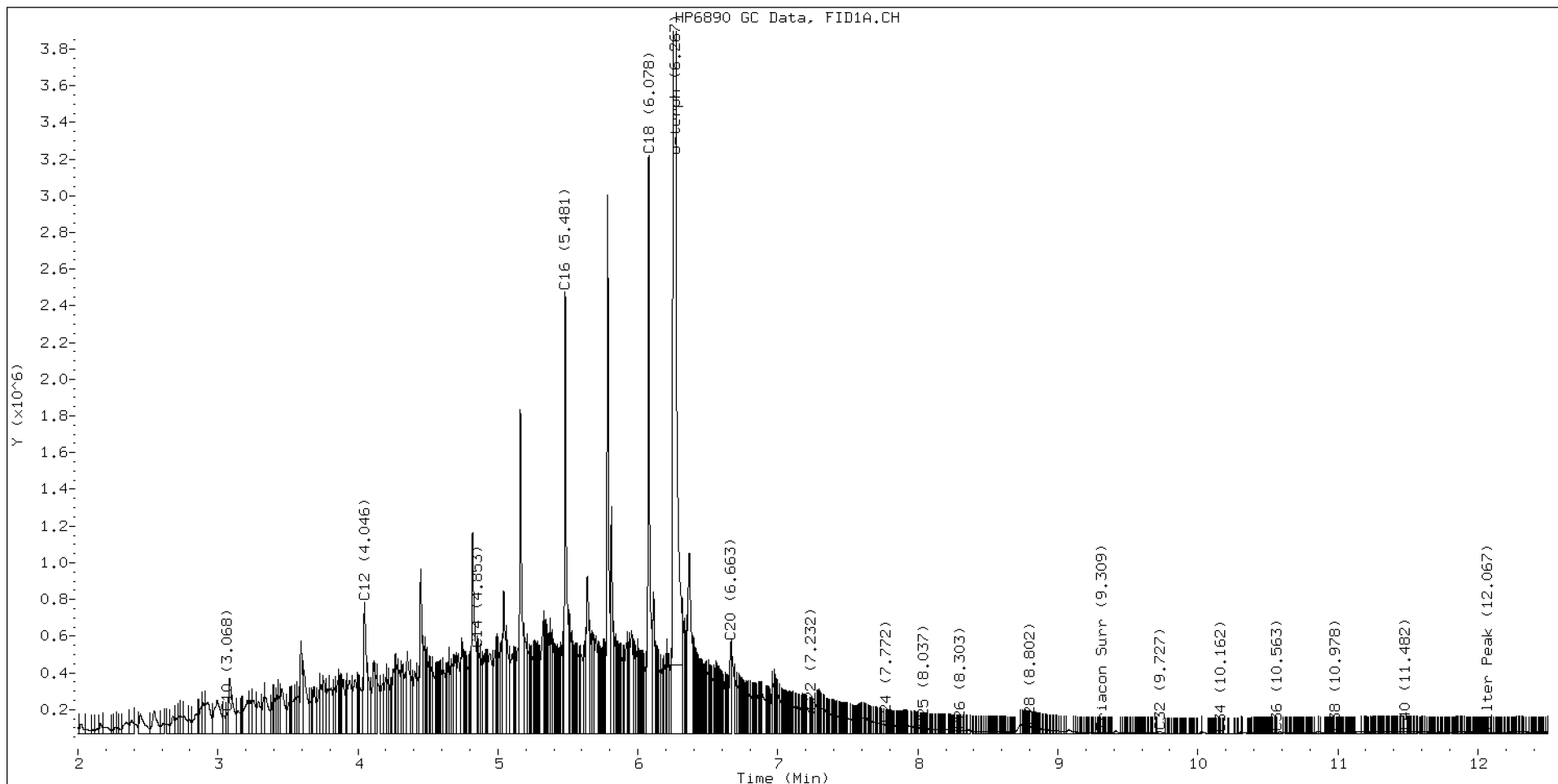
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.999	-0.007	32786	30507	WATPHD	(C12-C24)	77087889	483.8
C10	3.068	-0.002	109525	98287	WATPHM	(C24-C38)	1869826	18.5
C12	4.046	0.004	714132	1033014	AK102	(C10-C25)	90573014	463.3
C14	4.853	0.005	456922	244548	AK103	(C25-C36)	1364345	18.6
C16	5.481	-0.008	2406475	2404688	OR.DIES	(C10-C28)	91504681	466.9
C18	6.078	-0.001	3151819	2915165				
C20	6.663	0.003	497981	603334	JET-A	(C10-C18)	69203212	417.3
C22	7.232	0.010	117845	63439				
C24	7.772	0.003	47754	25751				
C25	8.037	-0.001	26812	9165				
C26	8.303	0.001	14392	7121				
C28	8.802	-0.002	36882	24413				
C32	9.727	-0.008	12133	19477				
C34	10.162	0.002	533	193				
Filter Peak	12.067	0.000	6487	1934	CREOSOT	(C12-C22)	74395775	825.4
C36	10.563	-0.005	2179	945				
C38	10.978	-0.001	5655	3577				
C40	11.482	-0.004	8072	8350				
o-terph	6.267	-0.002	16520243	16921849				
Triacon Surr	9.309	0.003	3278	1883	NAS DIES	(C10-C24)	90175126	462.1

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	16921849	82.7 M
Triacontane	1883	0.0

M Indicates the peak was manually integrated

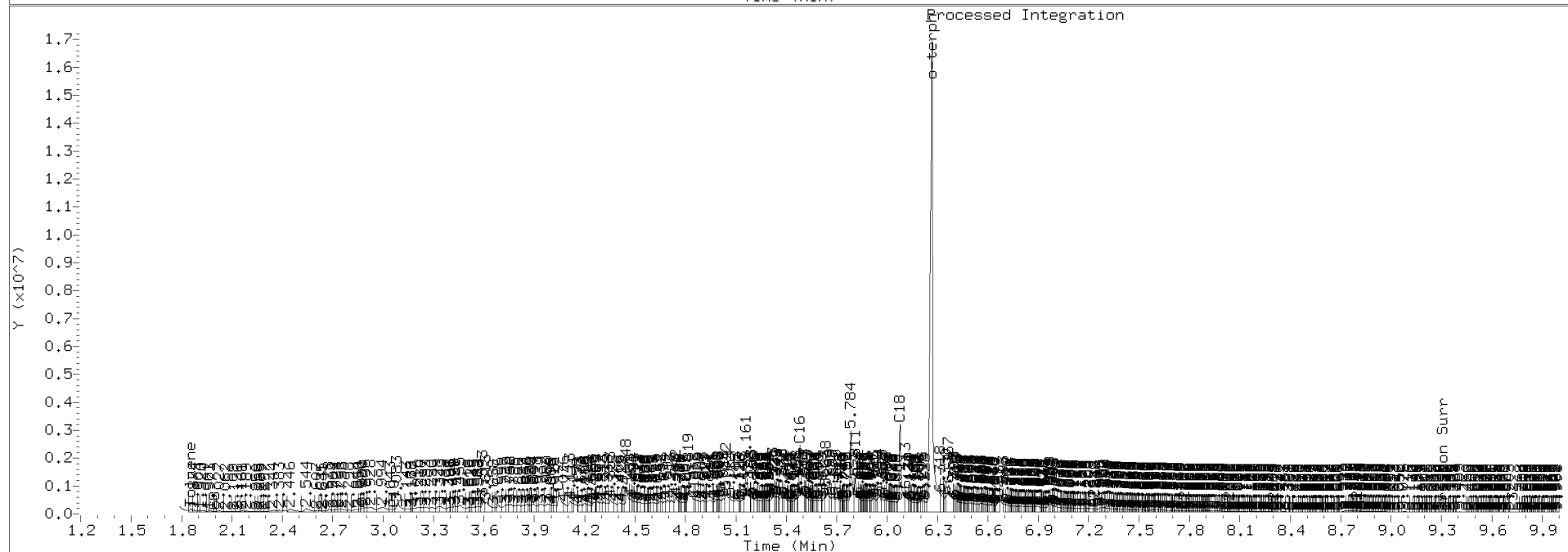
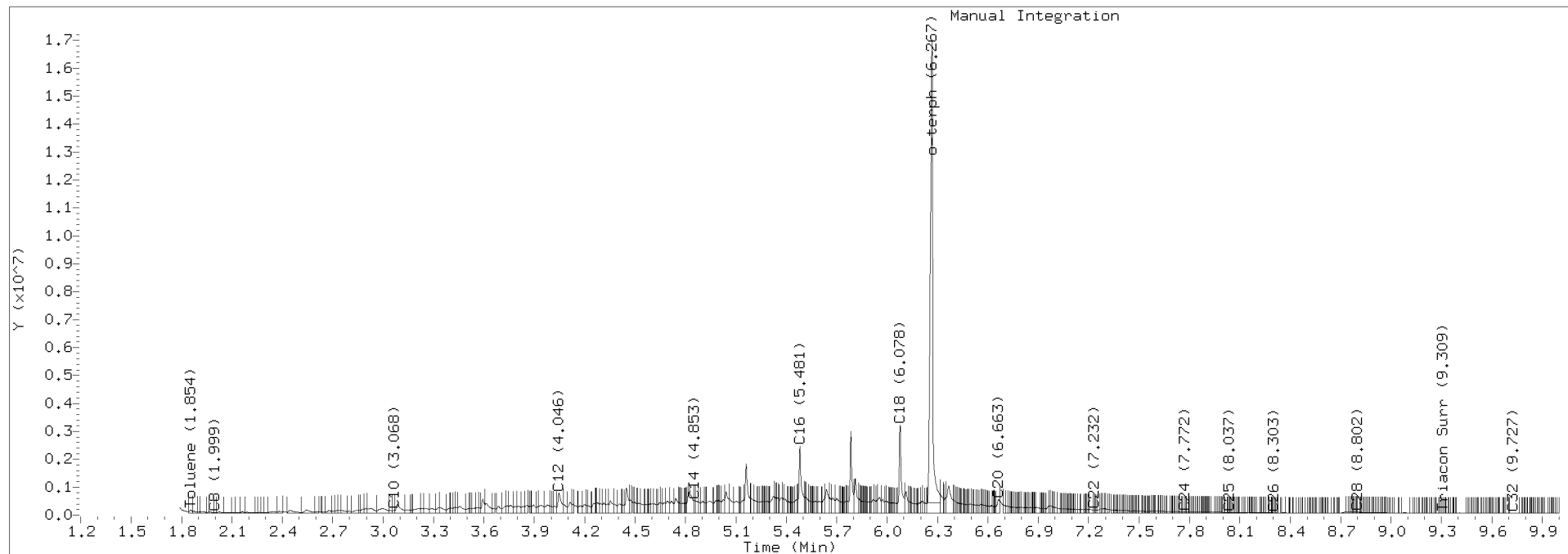
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1517.D Injection: 15-OCT-2020 17:25

Lab ID:SEQ-CCV1



Data File: \\target\share\chem2\fid4a,1\20201015,b\4201518.D
Date: 15-OCT-2020 17:45

Client ID:

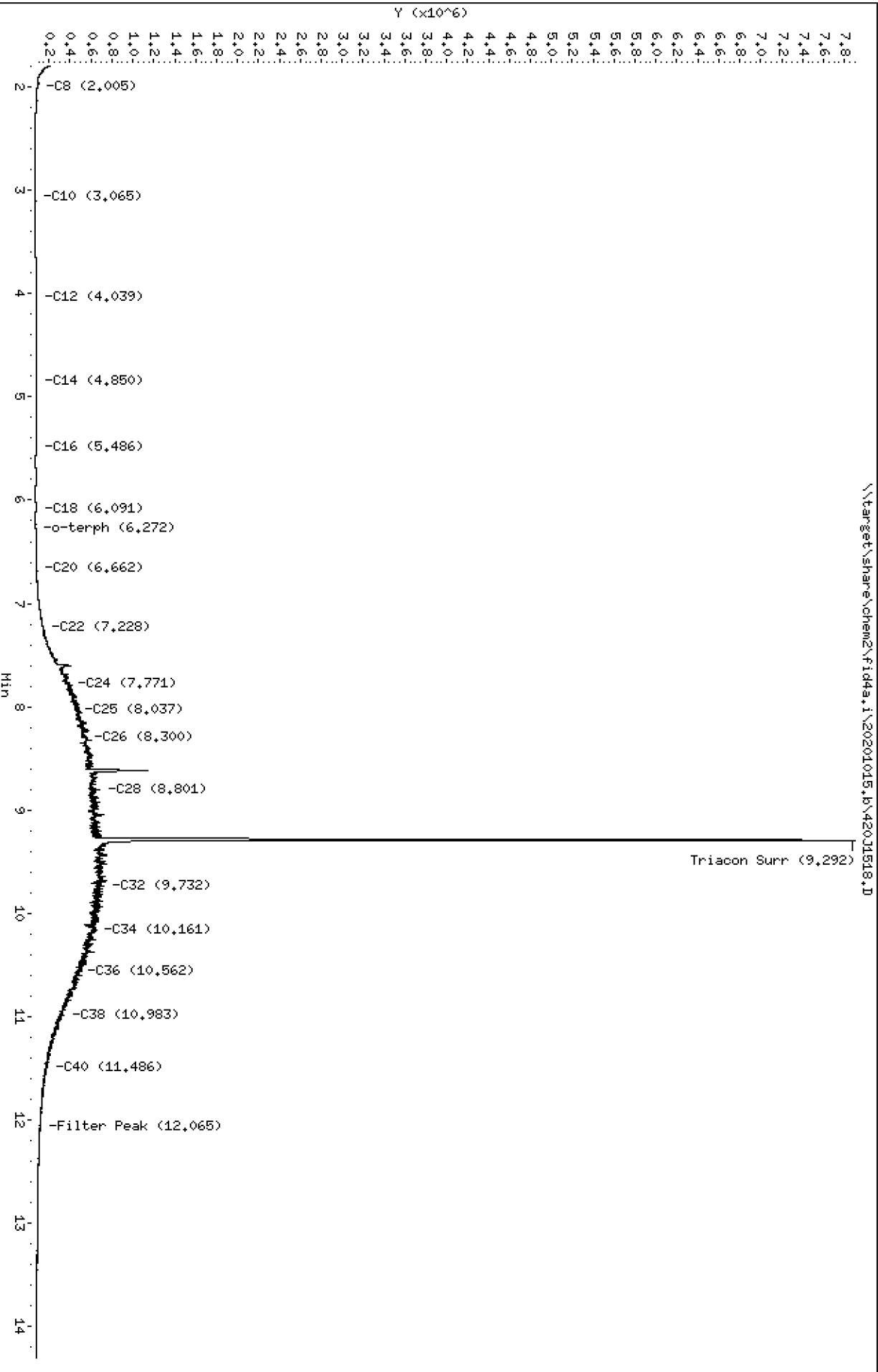
Sample Info: SEQ-CCV2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1518.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV2
Client ID:
Injection: 15-OCT-2020 17:45
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

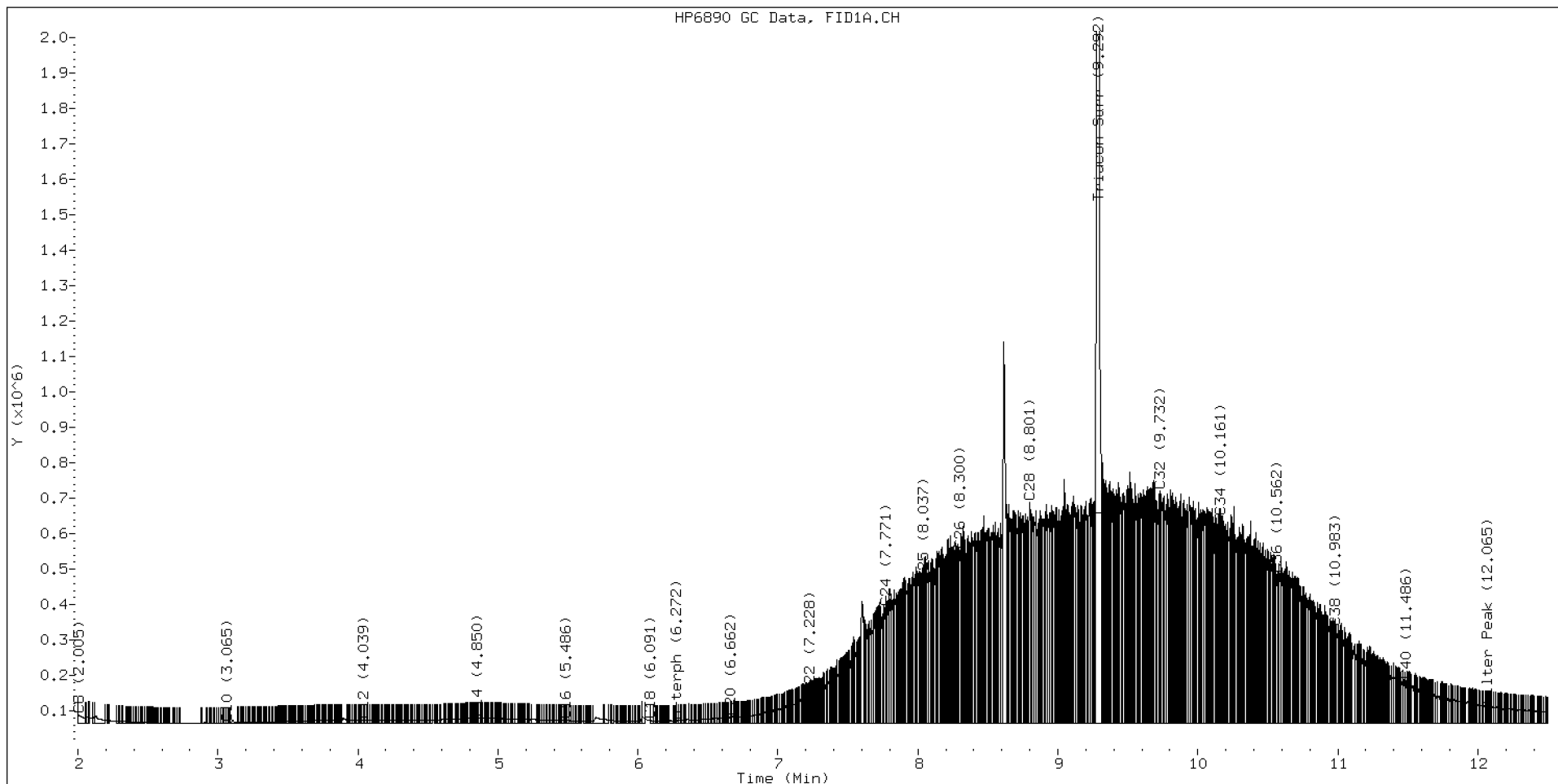
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.005	-0.001	22123	54823	WATPHD	(C12-C24)	9506297	59.7
C10	3.065	-0.005	966	662	WATPHM	(C24-C38)	96545248	954.3
C12	4.039	-0.003	8846	3960	AK102	(C10-C25)	13356887	68.3
C14	4.850	0.002	13731	4792	AK103	(C25-C36)	85299660	1165.2
C16	5.486	-0.003	7507	5888	OR.DIES	(C10-C28)	39391084	201.0
C18	6.091	0.012	7278	7679				
C20	6.662	0.002	16198	4829	JET-A	(C10-C18)	1436209	8.7
C22	7.228	0.006	78393	56509				
C24	7.771	0.002	326998	218379				
C25	8.037	-0.001	400762	119839				
C26	8.300	-0.001	489755	237768				
C28	8.801	-0.003	624438	572120				
C32	9.732	-0.003	655330	341494				
C34	10.161	0.002	581449	170235				
Filter Peak	12.065	-0.001	48311	18961	CREOSOT	(C12-C22)	2839760	31.5
C36	10.562	-0.005	420652	200821				
C38	10.983	0.003	271188	202485				
C40	11.486	0.001	120361	70666				
o-terph	6.272	0.003	6075	2643				
Triacon Surr	9.292	-0.014	7244219	6864672	NAS DIES	(C10-C24)	9871385	50.6

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	2643	0.0
Triacontane	6864672	46.3 M

M Indicates the peak was manually integrated

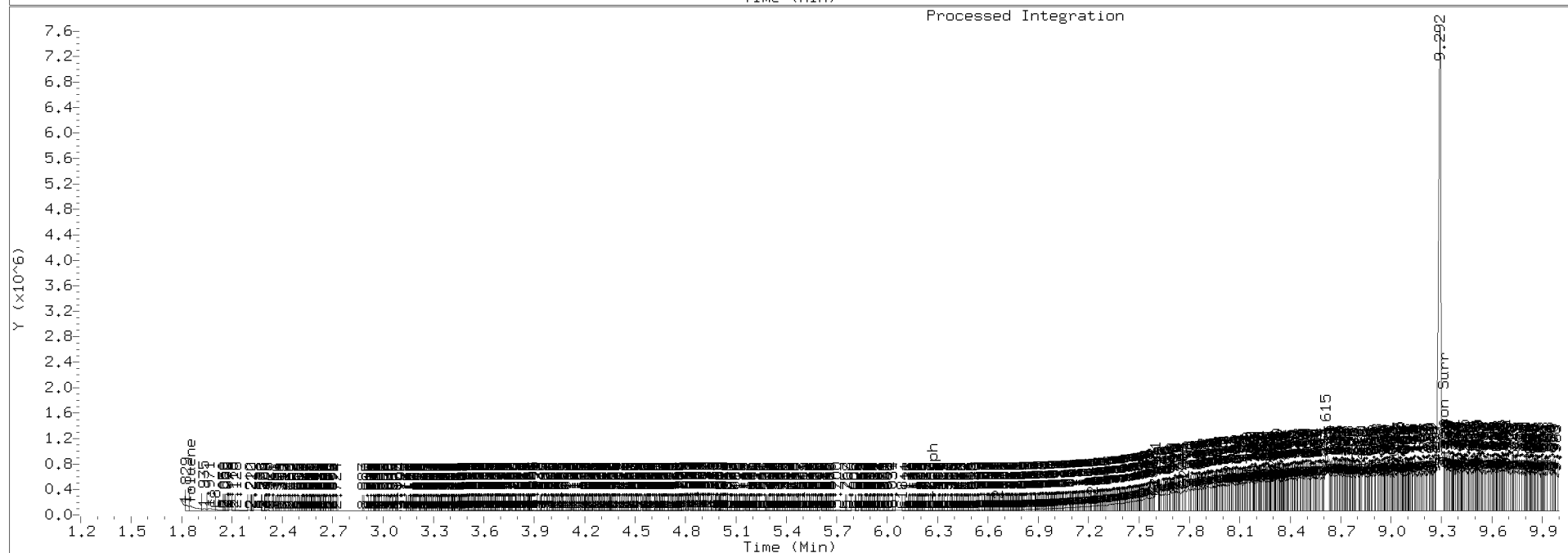
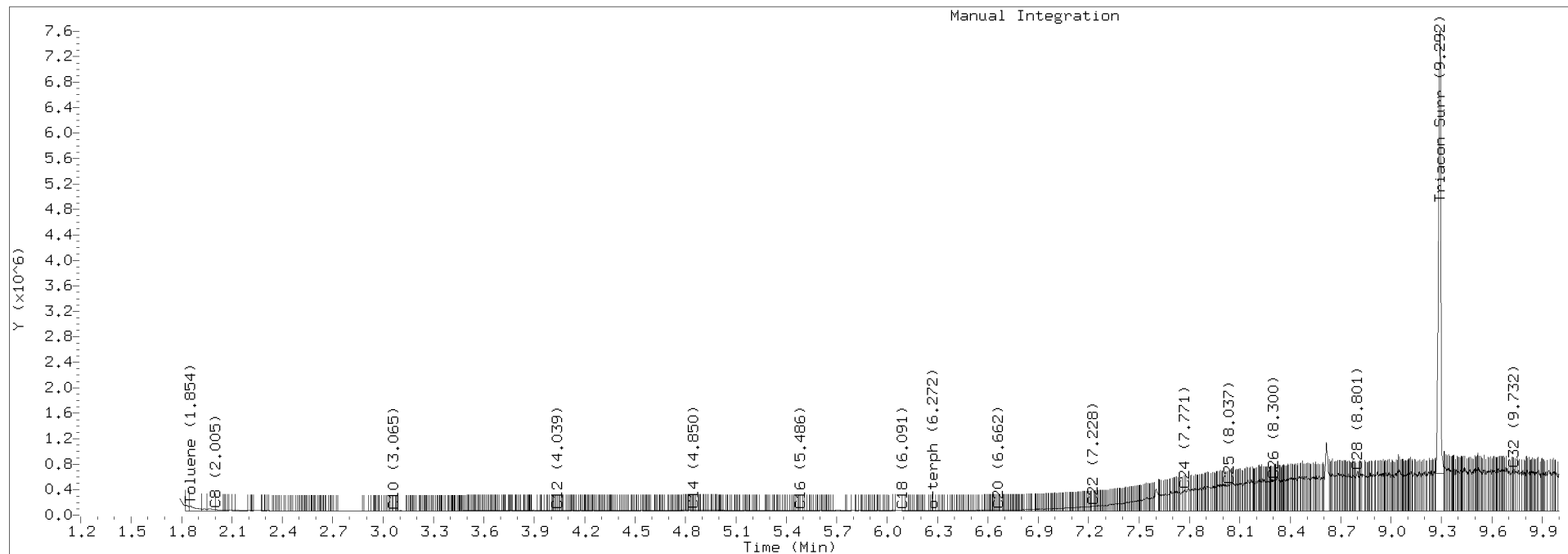
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1518.D Injection: 15-OCT-2020 17:45

Lab ID:SEQ-CCV2



Data File: \\target\share\chem2\fid4a,1\20201015,8\4201526.D
Date: 15-OCT-2020 20:29

Client ID:

Sample Info: SEQ-CCV4

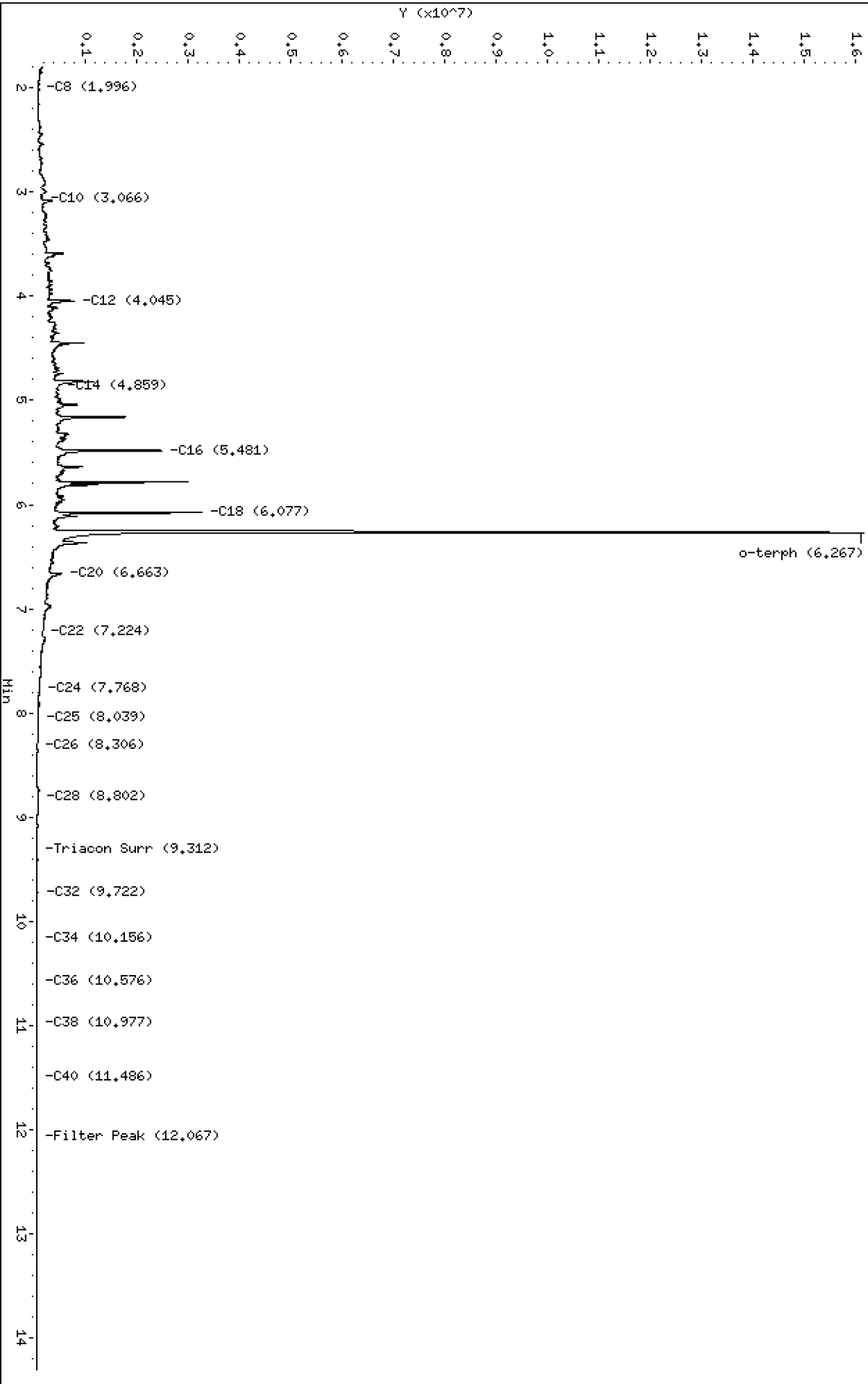
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20201015,8\4201526.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1526.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV4
Client ID:
Injection: 15-OCT-2020 20:29
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

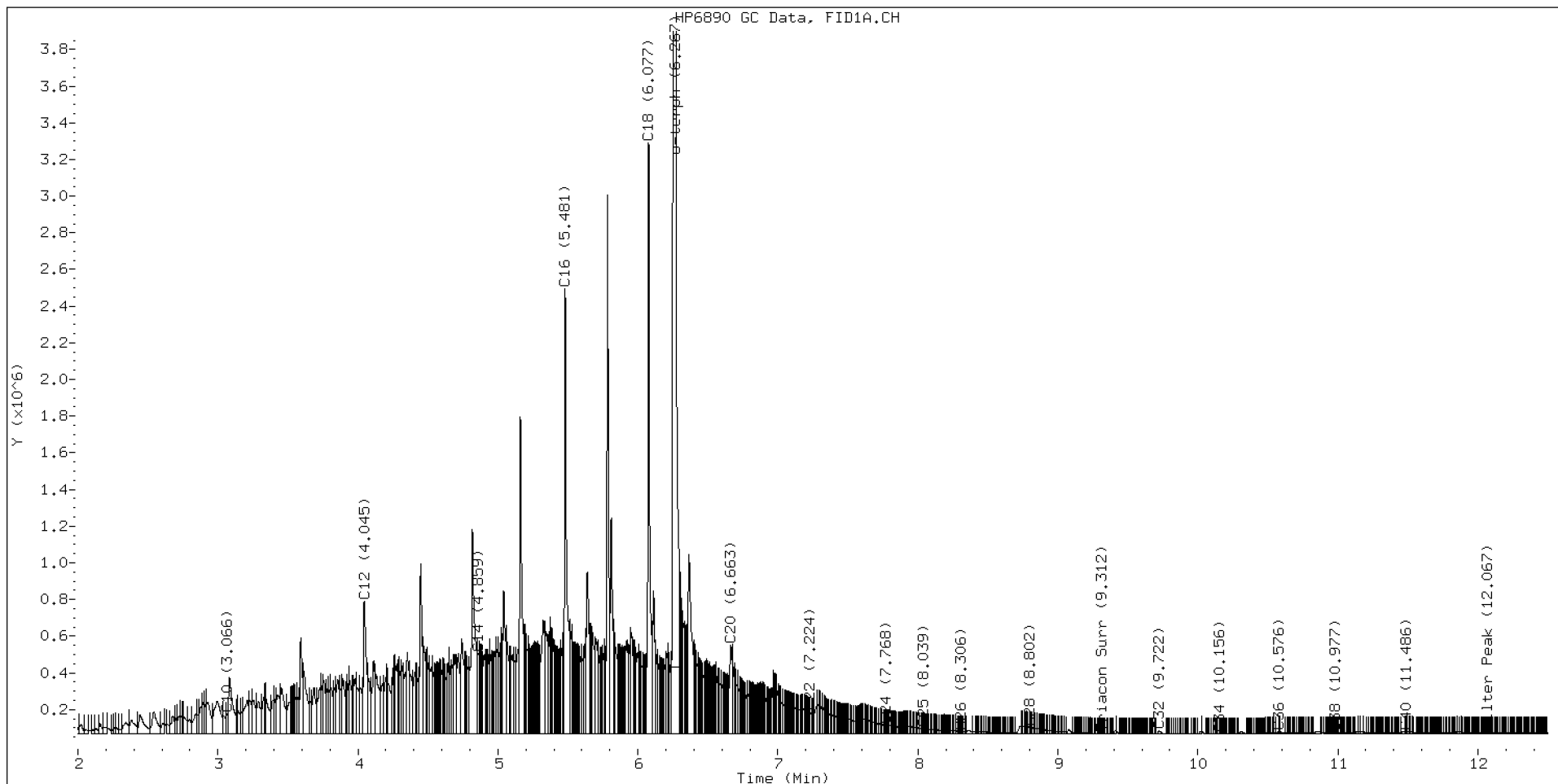
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.996	-0.011	32400	31346	WATPHD	(C12-C24)	77700708	487.7
C10	3.066	-0.004	110355	95090	WATPHM	(C24-C38)	1829957	18.1
C12	4.045	0.003	723319	1042881	AK102	(C10-C25)	91429293	467.7
C14	4.859	0.011	438370	302691	AK103	(C25-C36)	1313633	17.9
C16	5.481	-0.008	2425058	2767362	OR.DIES	(C10-C28)	92291878	470.9
C18	6.077	-0.002	3221935	2924303				
C20	6.663	0.003	484265	634707	JET-A	(C10-C18)	69718876	420.4
C22	7.224	0.002	118802	46572				
C24	7.768	-0.001	45534	9082				
C25	8.039	0.001	26678	18328				
C26	8.306	0.004	13187	6434				
C28	8.802	-0.001	35271	13696				
C32	9.722	-0.013	15436	22066				
C34	10.156	-0.004	1088	458				
Filter Peak	12.067	0.001	7880	2351	CREOSOT	(C12-C22)	74931683	831.4
C36	10.576	0.009	10891	11306				
C38	10.977	-0.002	6958	3446				
C40	11.486	0.000	9381	2806				
o-terph	6.267	-0.001	15724856	16421899				
Triacon Surr	9.312	0.005	1576	234	NAS DIES	(C10-C24)	91053816	466.6

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	16421899	80.2 M
Triacontane	234	0.0

M Indicates the peak was manually integrated

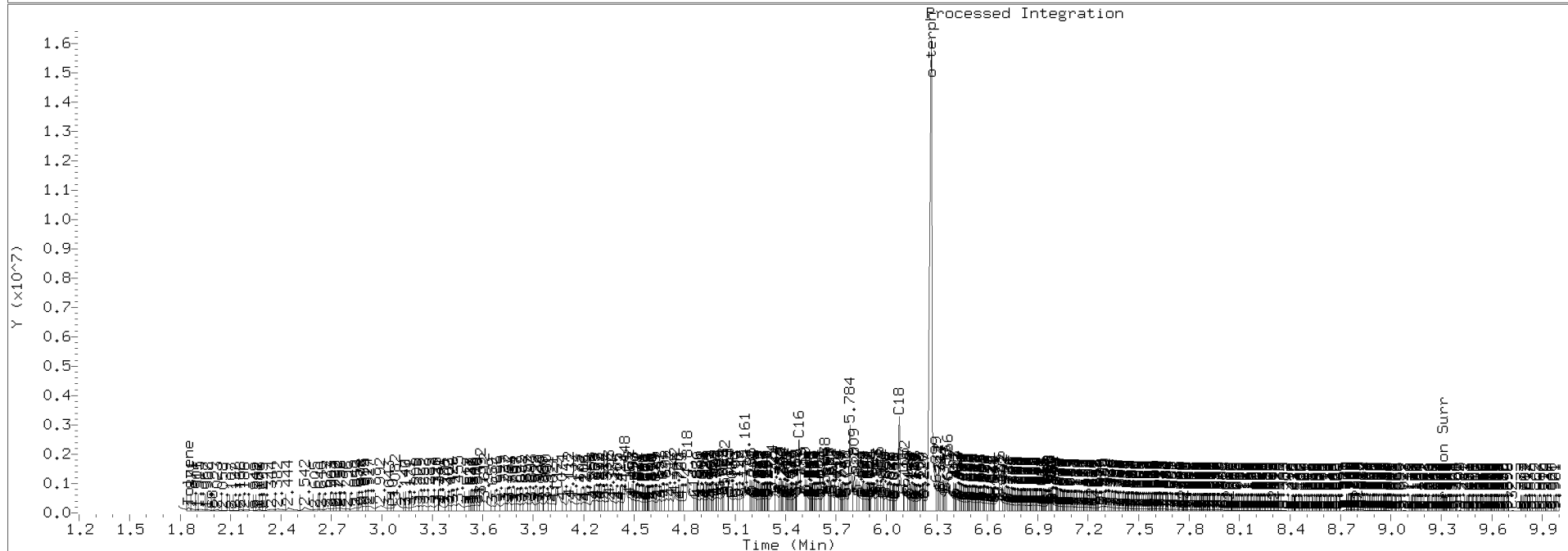
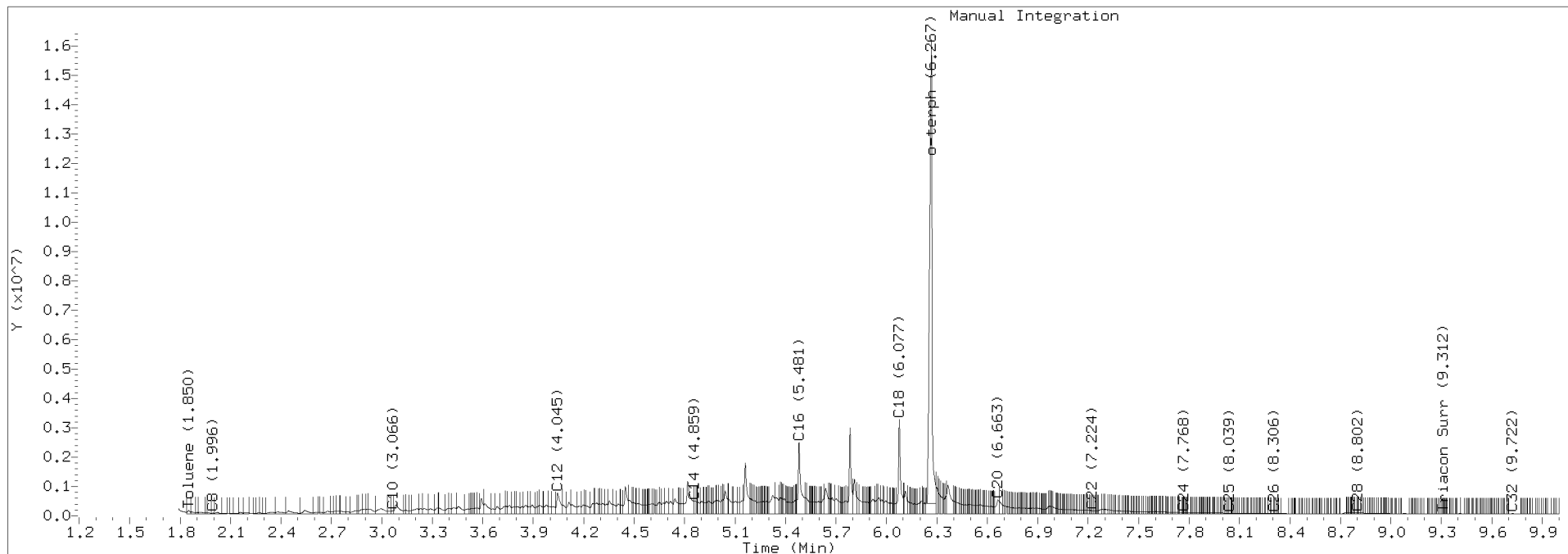
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1526.D Injection: 15-OCT-2020 20:29

Lab ID:SEQ-CCV4



Data File: \\target\share\chem2\fid4a,1\20201015,b\4201527.D
Date: 15-OCT-2020 20:50

Client ID:

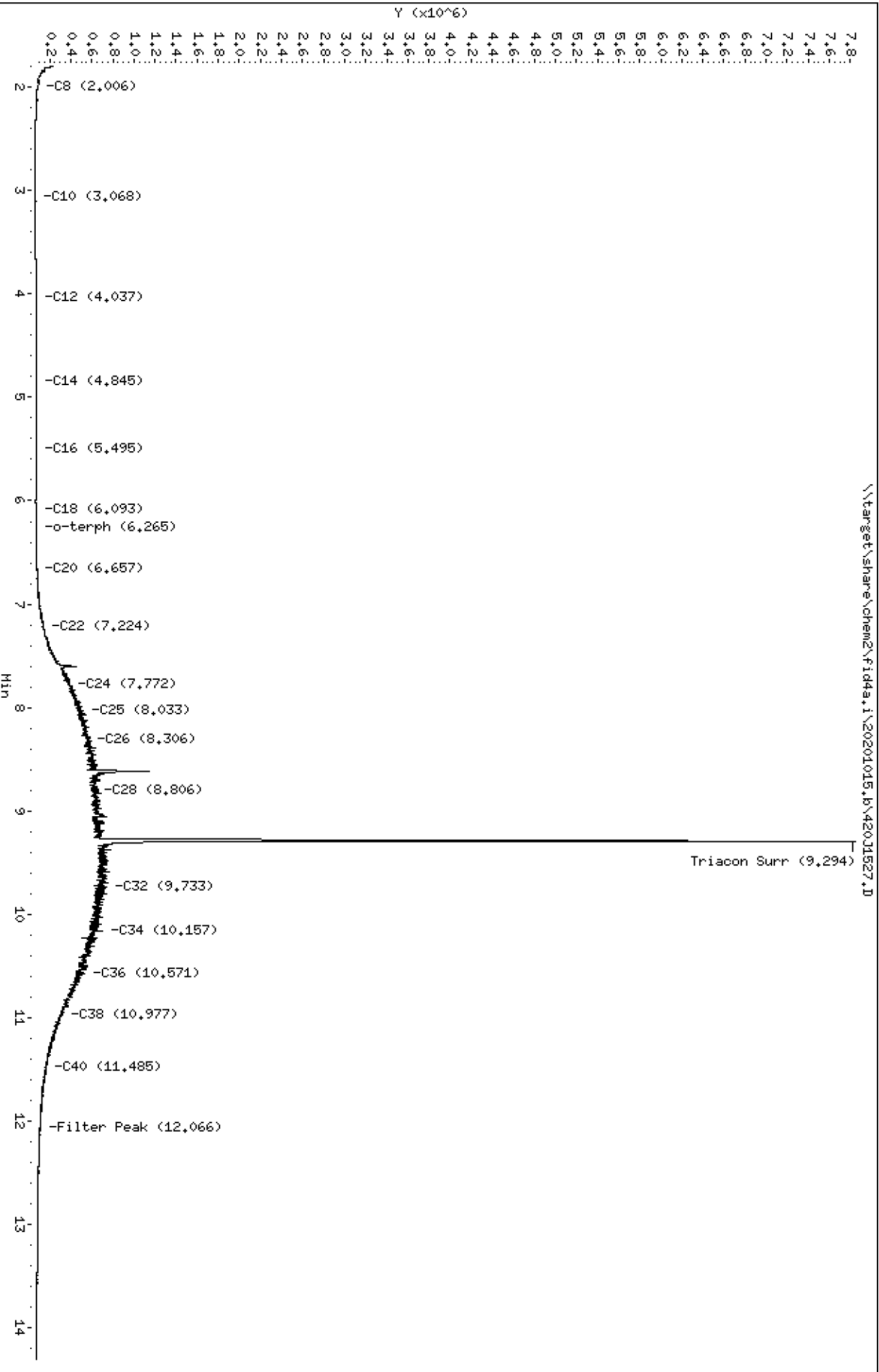
Sample Info: SEQ-CV5

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1527.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV5
Client ID:
Injection: 15-OCT-2020 20:50
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

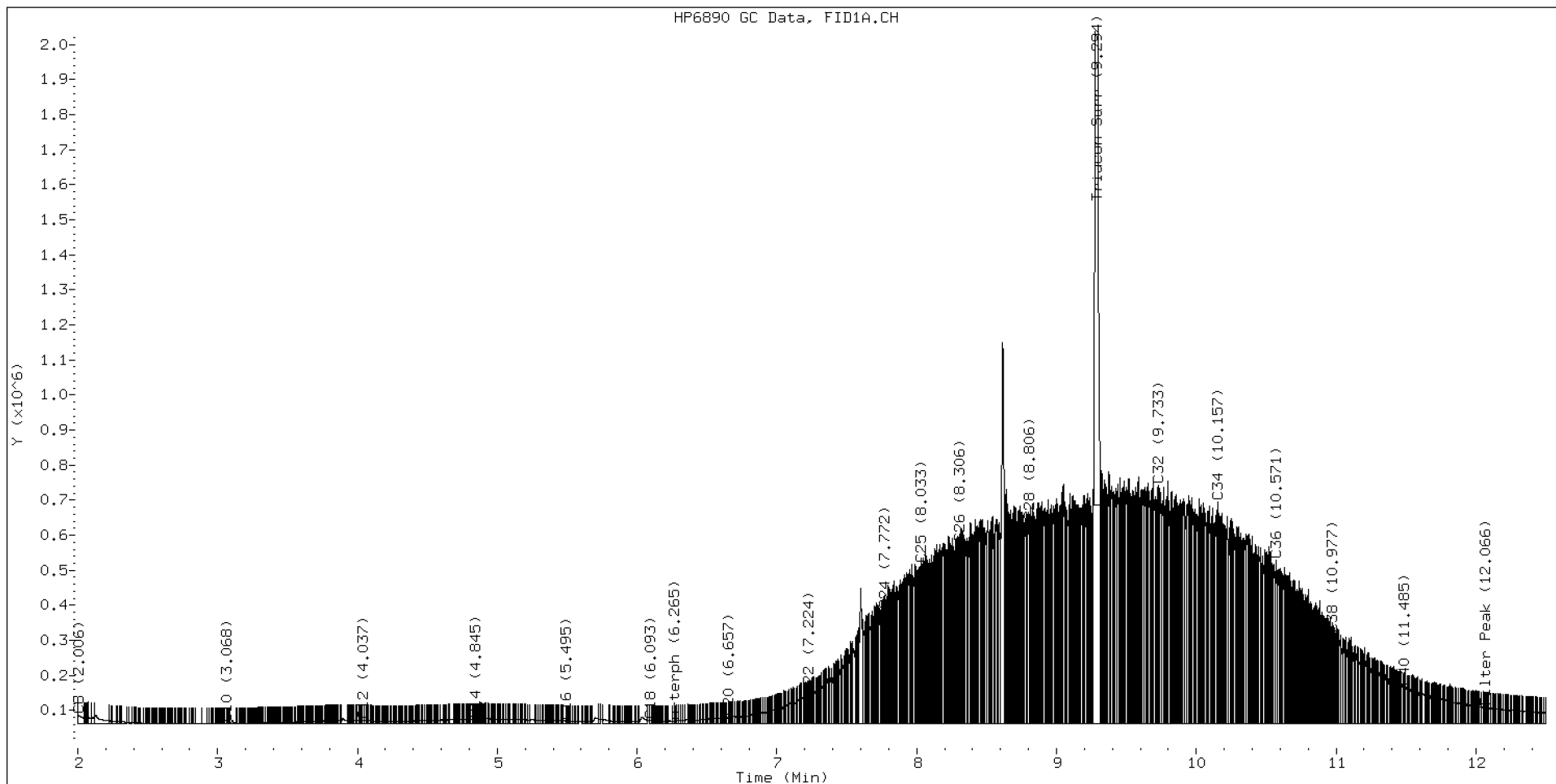
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.006	-0.000	24104	48876	WATPHD	(C12-C24)	9940332	62.4
C10	3.068	-0.002	1199	829	WATPHM	(C24-C38)	99470120	983.2
C12	4.037	-0.005	9380	6914	AK102	(C10-C25)	14179469	72.5
C14	4.845	-0.003	14305	7138	AK103	(C25-C36)	87861343	1200.2
C16	5.495	0.006	8422	2095	OR.DIES	(C10-C28)	41233898	210.4
C18	6.093	0.014	9333	7060				
C20	6.657	-0.004	18347	7181	JET-A	(C10-C18)	1549379	9.3
C22	7.224	0.002	81421	36034				
C24	7.772	0.003	323609	96185				
C25	8.033	-0.005	454418	257602				
C26	8.306	0.005	513687	352451				
C28	8.806	0.002	578069	168973				
C32	9.733	-0.002	680032	324363				
C34	10.157	-0.003	634929	268511				
Filter Peak	12.066	-0.000	46137	18249	CREOSOT	(C12-C22)	3159128	35.1
C36	10.571	0.004	466378	384916				
C38	10.977	-0.003	256053	148781				
C40	11.485	-0.000	104220	35073				
o-terph	6.265	-0.004	7818	4229				
Triacon Surr	9.294	-0.012	7162330	7043463	NAS DIES	(C10-C24)	10305720	52.8

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	4229	0.0
Triacontane	7043463	47.5 M

M Indicates the peak was manually integrated

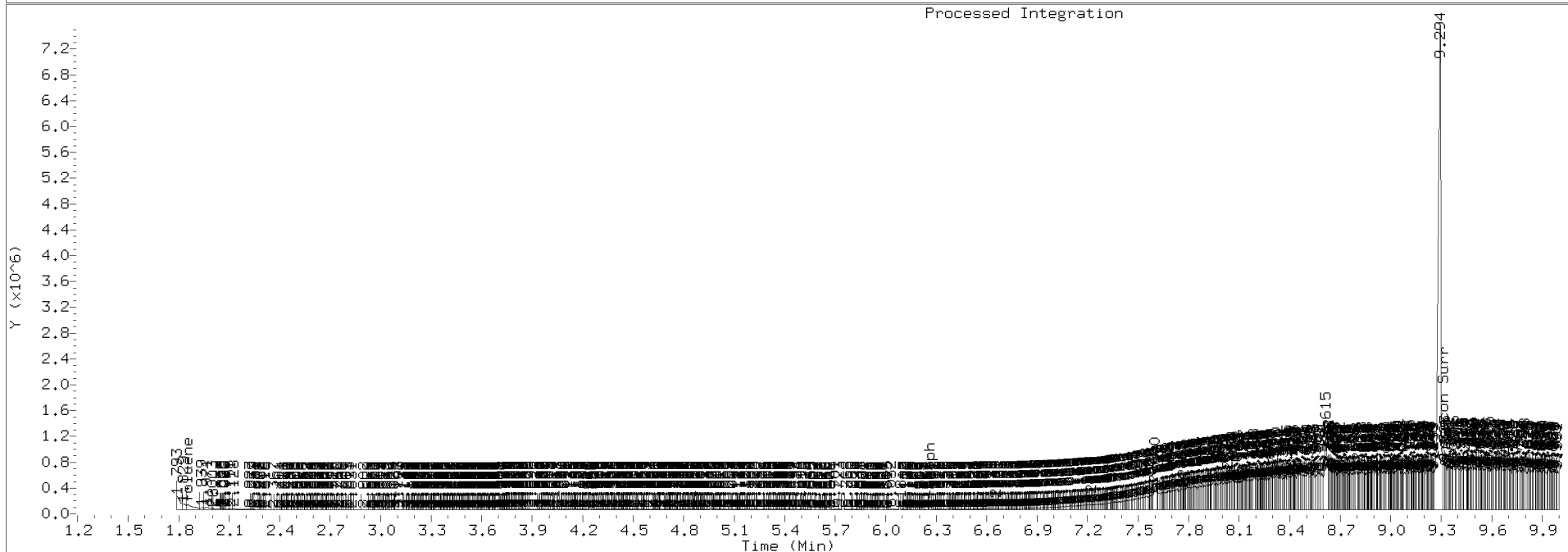
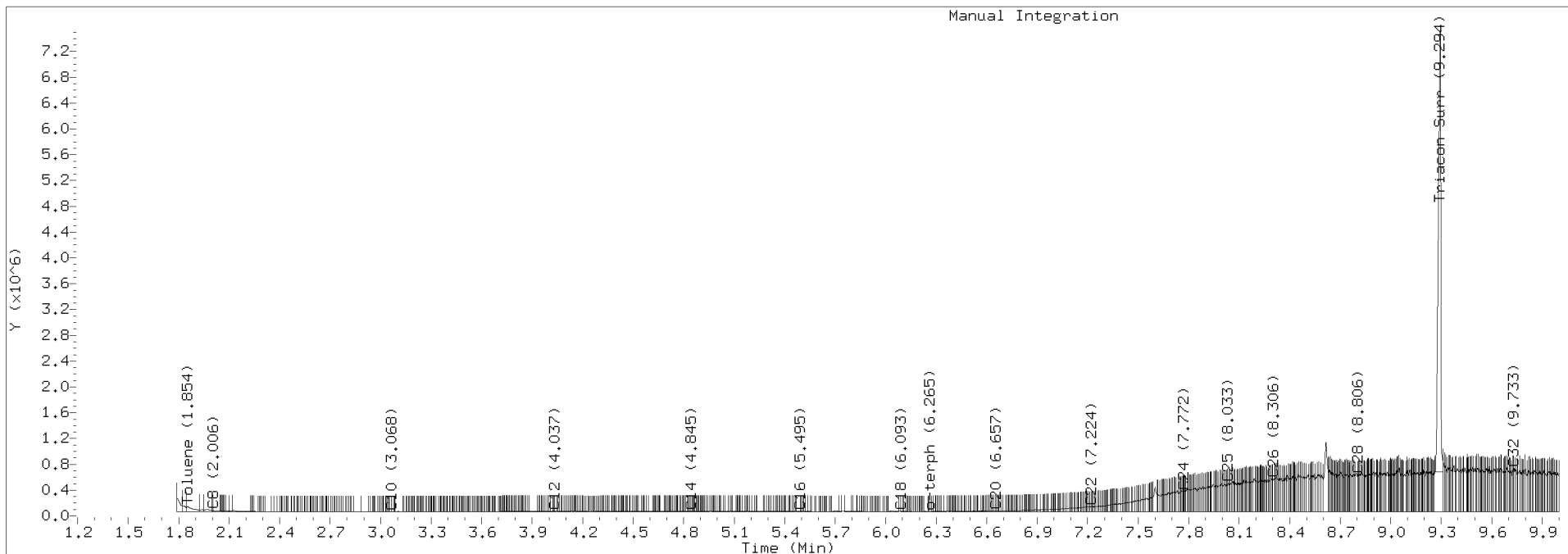
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1527.D Injection: 15-OCT-2020 20:50

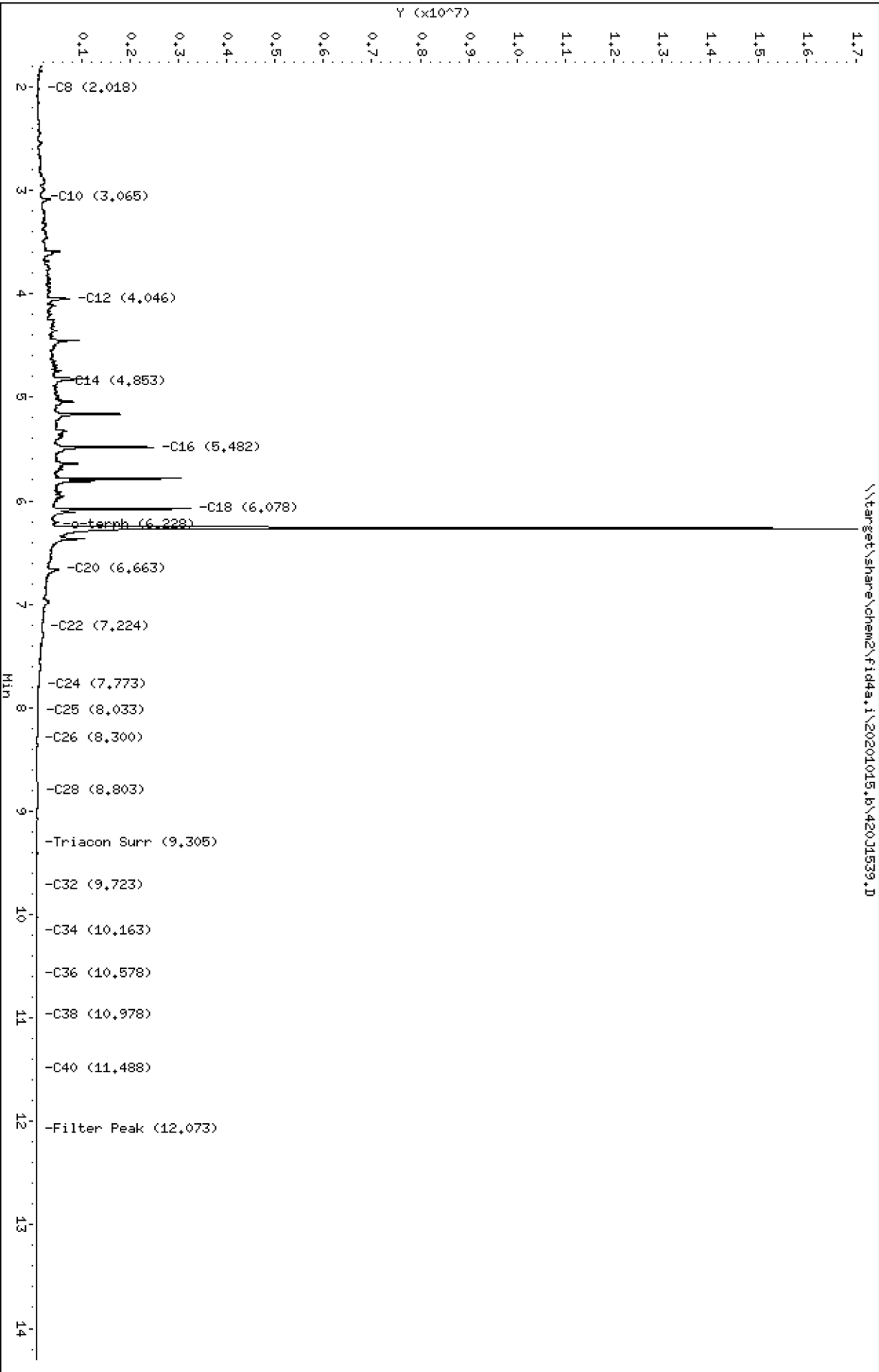
Lab ID:SEQ-CCV5



Data File: \\target\share\chem2\fid4a,1\20201015,6\4201539.D
Date: 16-OCT-2020 00:53
Client ID:
Sample Info: SEQ-OCW6

Column phase: RTX-1

Instrument: fid4a,1
Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1539.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV6
Client ID:
Injection: 16-OCT-2020 00:53
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

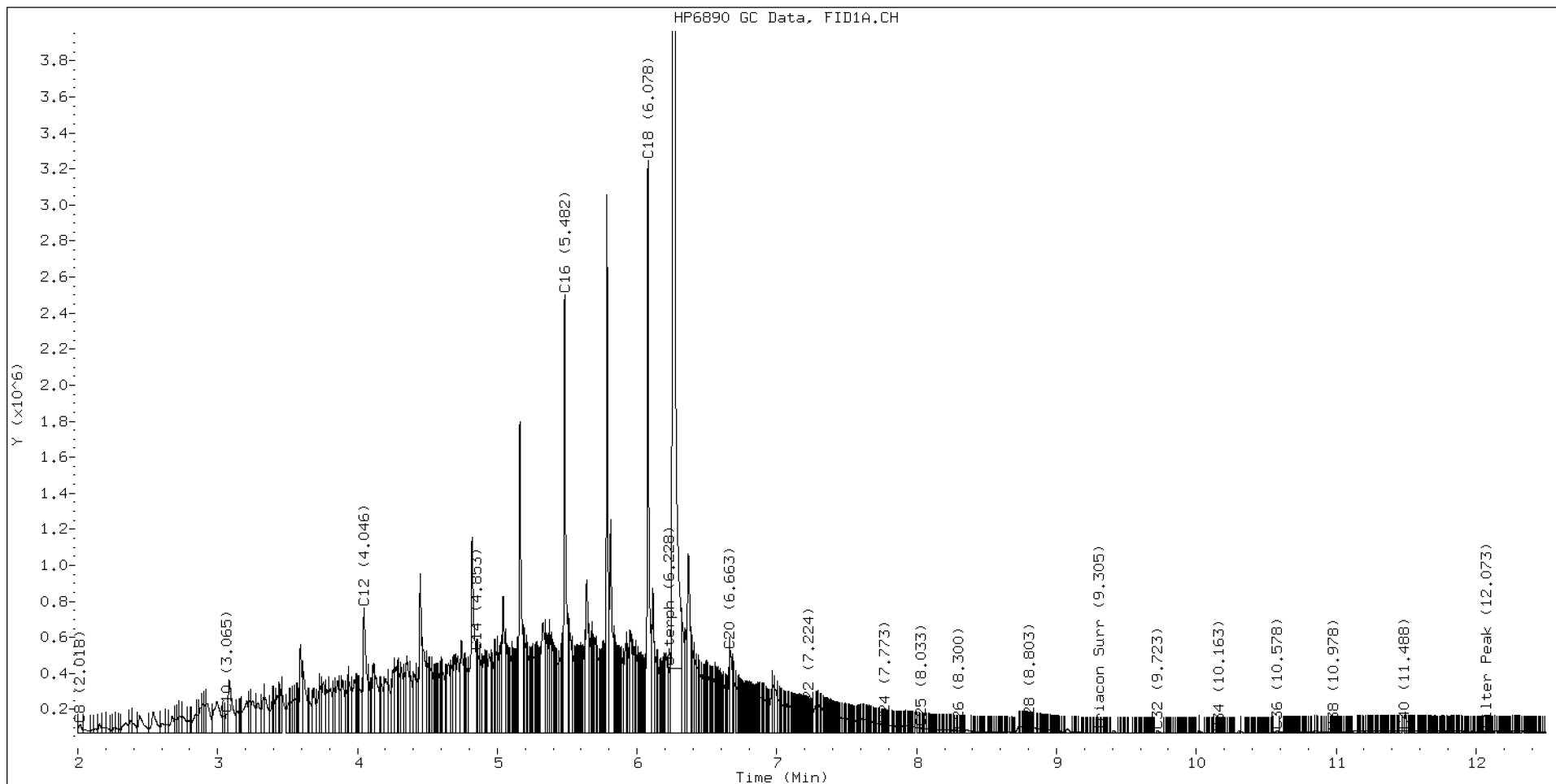
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.018	0.012	47111	76622	WATPHD	(C12-C24)	77325819	485.3
C10	3.065	-0.005	107233	97687	WATPHM	(C24-C38)	1794165	17.7
C12	4.046	0.004	692924	1053350	AK102	(C10-C25)	90413726	462.5
C14	4.853	0.005	449904	241988	AK103	(C25-C36)	1256596	17.2
C16	5.482	-0.007	2434713	2412002	OR.DIES	(C10-C28)	91221844	465.4
C18	6.078	-0.001	3179823	2877338				
C20	6.663	0.002	458905	387504	JET-A	(C10-C18)	69102928	416.7
C22	7.224	0.002	121247	53597				
C24	7.773	0.004	46296	20534				
C25	8.033	-0.005	28545	22641				
C26	8.300	-0.001	13275	9079				
C28	8.803	-0.000	33127	12962				
C32	9.723	-0.011	14060	21389				
C34	10.163	0.004	1412	712				
Filter Peak	12.073	0.006	9850	7327	CREOSOT	(C12-C22)	74582289	827.5
C36	10.578	0.011	12298	21508				
C38	10.978	-0.002	8293	3695				
C40	11.488	0.003	11033	10875				
o-terph	6.268	-0.000	16613022	17012244				
Triacon Surr	9.305	-0.001	1694	1208	NAS DIES	(C10-C24)	90042265	461.4

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	17012244	83.1 M
Triacontane	1208	0.0

M Indicates the peak was manually integrated

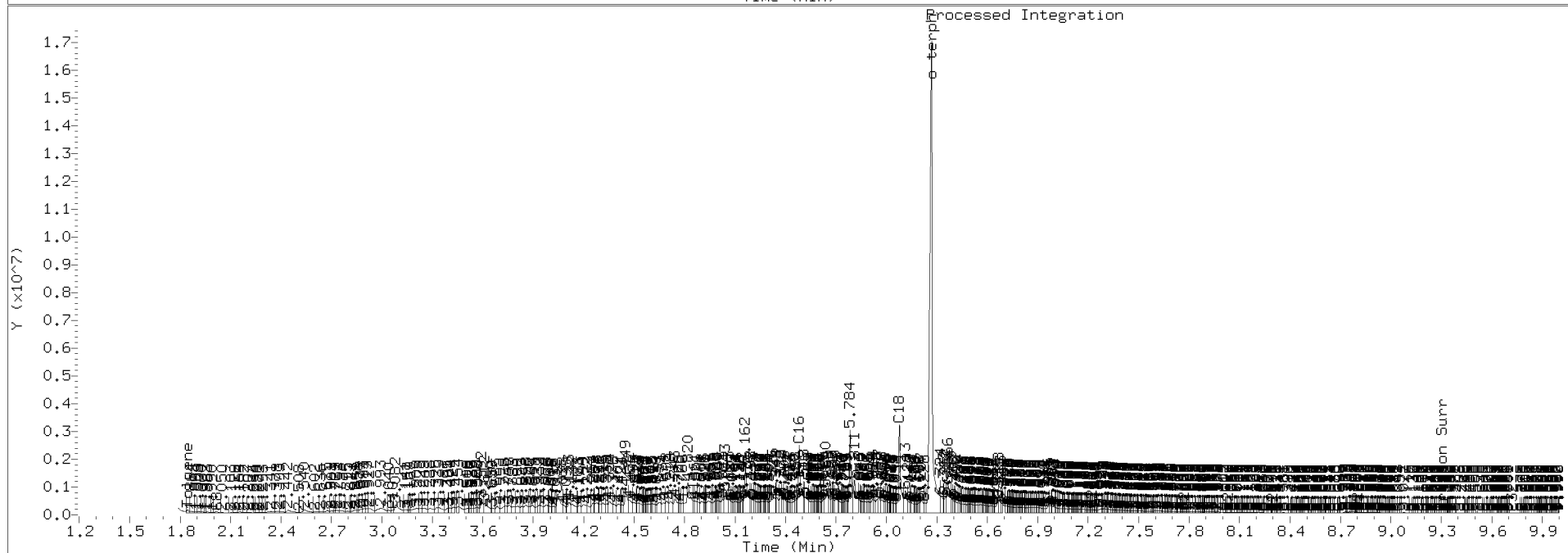
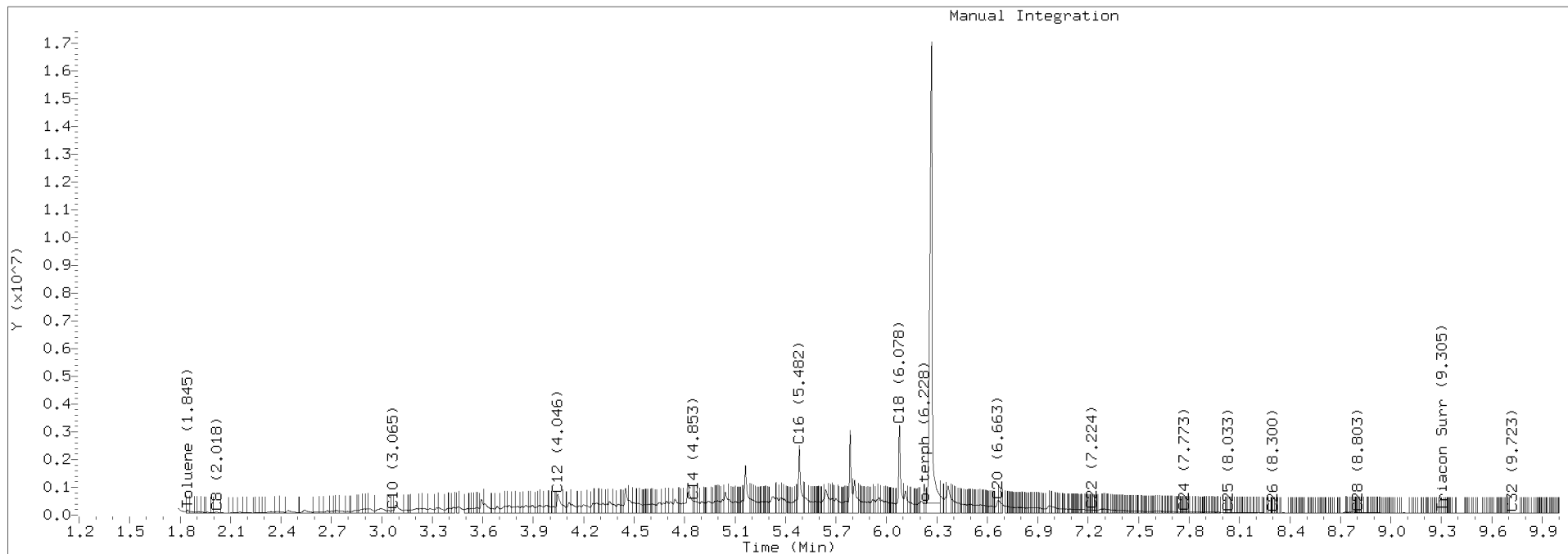
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1539.D Injection: 16-OCT-2020 00:53

Lab ID:SEQ-CCV6



Data File: \\target\share\chem2\fid4a,1\20201015,b\42011540.D
Date: 16-OCT-2020 01:14

Client ID:

Sample Info: SEQ-CCV7

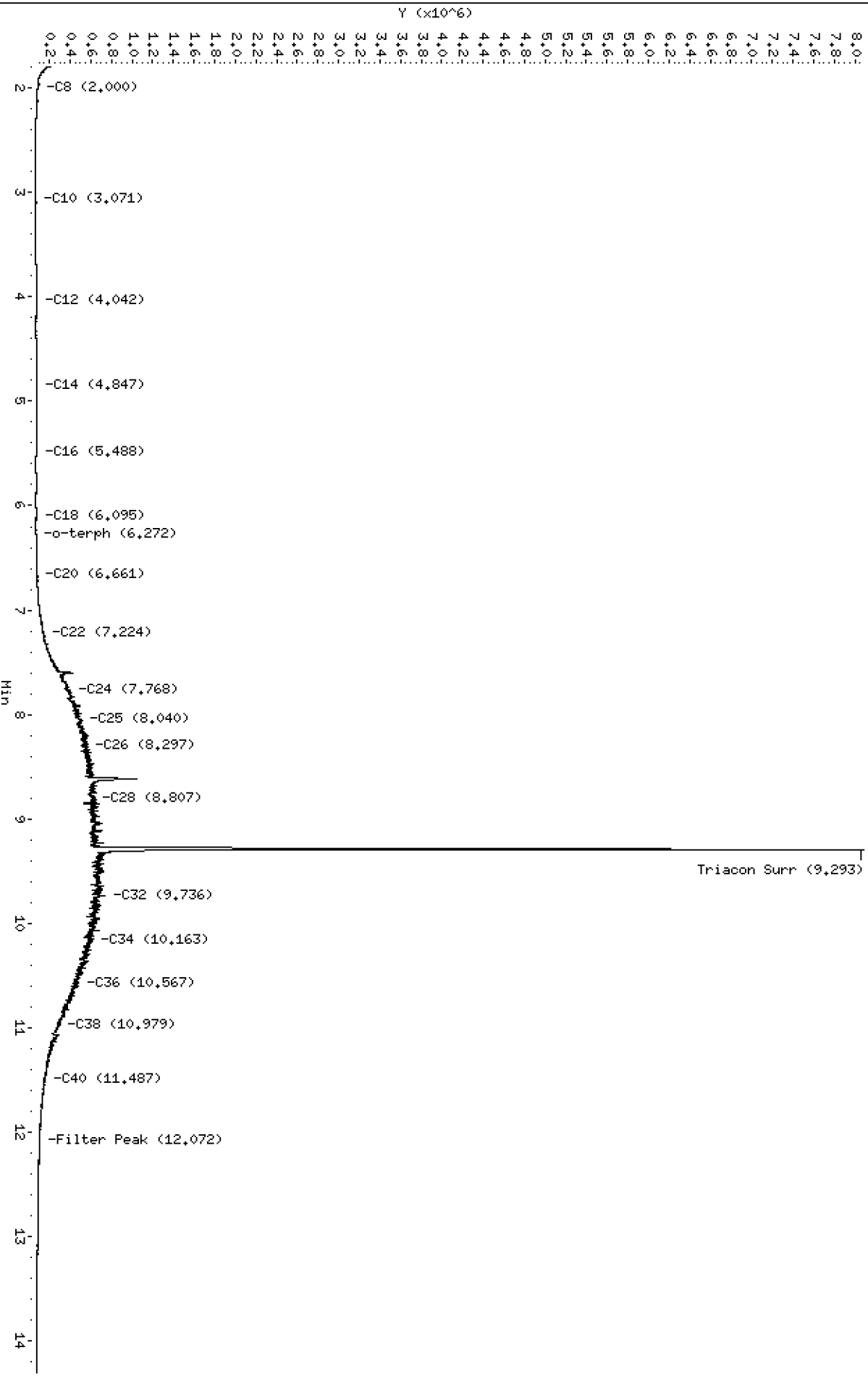
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20201015,b\42011540.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201015.b/420J1540.D
Method: 20201015.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/19/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV7
Client ID:
Injection: 16-OCT-2020 01:14
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

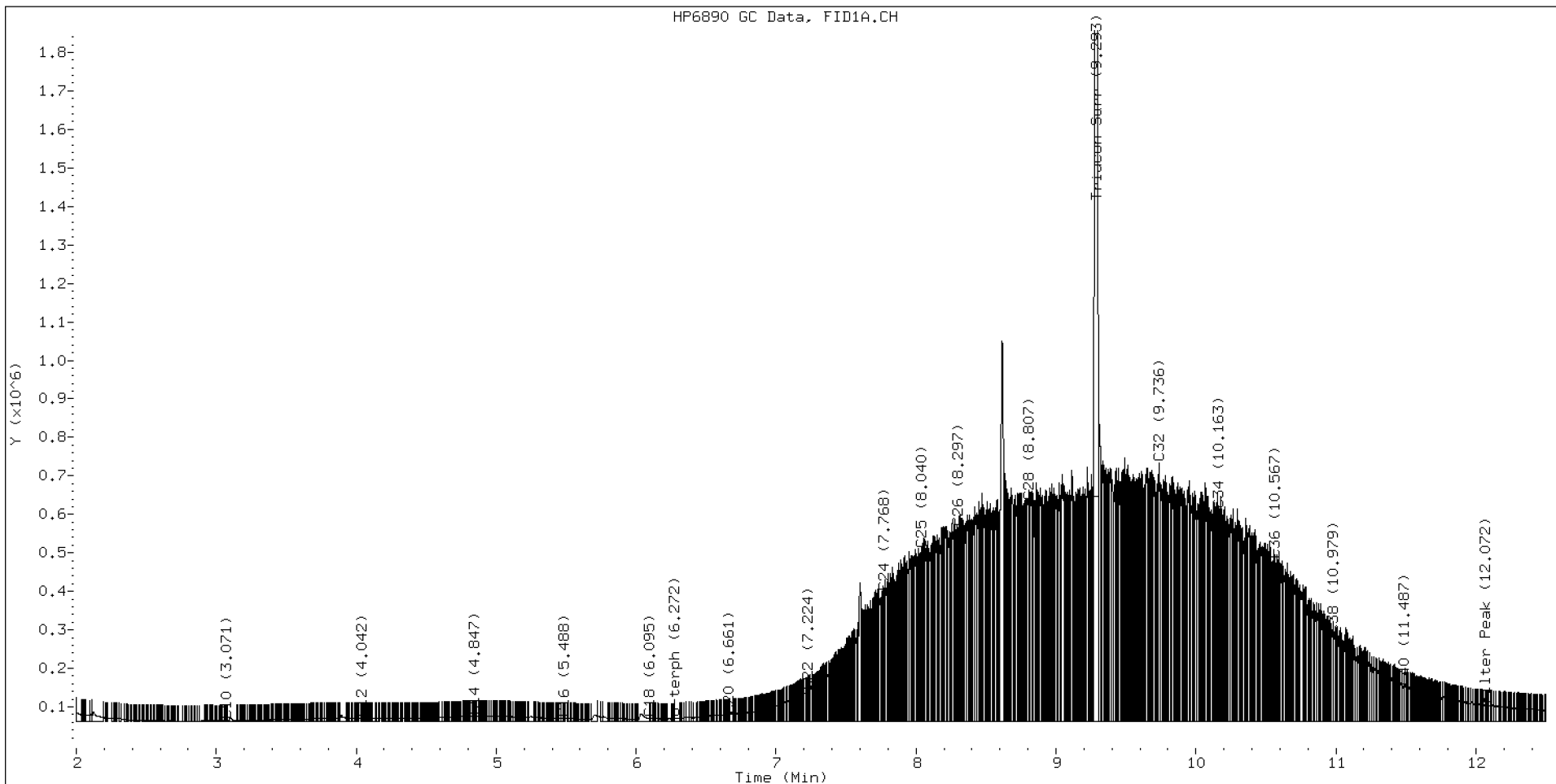
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.000	-0.006	21792	43978	WATPHD	(C12-C24)	9598184	60.2
C10	3.071	0.001	1160	514	WATPHM	(C24-C38)	95145597	940.5
C12	4.042	0.000	8196	5272	AK102	(C10-C25)	13742080	70.3
C14	4.847	-0.001	13017	10939	AK103	(C25-C36)	84335546	1152.0
C16	5.488	-0.001	7266	4310	OR.DIES	(C10-C28)	39904370	203.6
C18	6.095	0.016	7838	5982				
C20	6.661	0.000	16815	4177	JET-A	(C10-C18)	1327617	8.0
C22	7.224	0.002	78483	30351				
C24	7.768	-0.001	335953	145009				
C25	8.040	0.002	447365	172153				
C26	8.297	-0.004	503700	263640				
C28	8.807	0.003	570695	224307				
C32	9.736	0.001	669779	372734				
C34	10.163	0.004	549211	266349				
Filter Peak	12.072	0.005	41167	20376	CREOSOT	(C12-C22)	2824481	31.3
C36	10.567	0.000	419437	138943				
C38	10.979	-0.001	223312	76329				
C40	11.487	0.001	89468	26397				
o-terph	6.272	0.004	6327	1853				
Triacon Surr	9.293	-0.013	7439827	6767019	NAS DIES	(C10-C24)	9936860	50.9

Range Times: NW Diesel(4.042 - 7.769) AK102(3.07 - 8.04) Jet A(3.07 - 6.08)
NW M.Oil(7.77 - 10.98) AK103(8.04 - 10.57) OR Diesel(3.07 - 8.80)

Surrogate	Area	Amount
o-Terphenyl	1853	0.0
Triacontane	6767019	45.6 M

M Indicates the peak was manually integrated

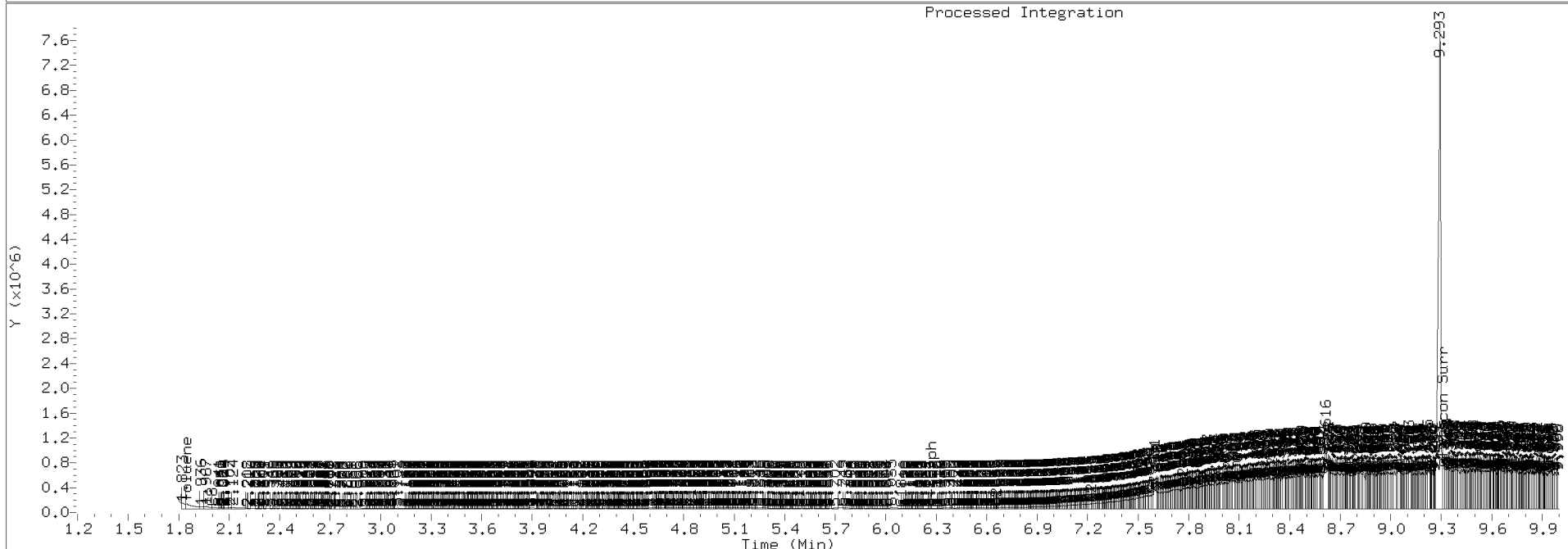
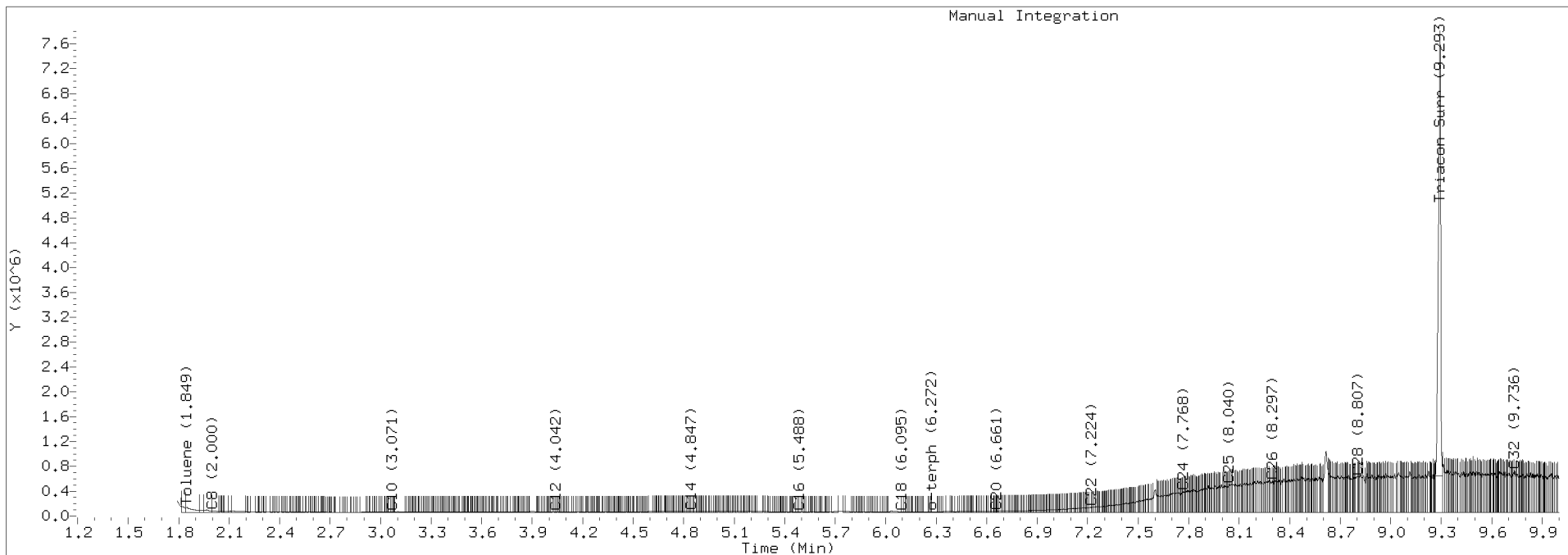
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201015.b/420J1540.D Injection: 16-OCT-2020 01:14

Lab ID:SEQ-CCV7





ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SHJ0406

Instrument: FID4

Calibration: CJ00089

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SHJ0406-IBL1	419J2505.D	NA	10/25/19 13:11
Instrument Blank	SHJ0406-IBL2	419J2506.D	NA	10/25/19 13:31
DIESEL 50	SHJ0406-CAL1	419J2507.D	NA	10/25/19 13:52
DIESEL 100	SHJ0406-CAL2	419J2508.D	NA	10/25/19 14:12
DIESEL 250	SHJ0406-CAL3	419J2509.D	NA	10/25/19 14:32
DIESEL 500	SHJ0406-CAL4	419J2510.D	NA	10/25/19 14:53
DIESEL 1000	SHJ0406-CAL5	419J2511.D	NA	10/25/19 15:13
DIESEL 2500	SHJ0406-CAL6	419J2512.D	NA	10/25/19 15:32
DIESEL SCV	SHJ0406-SCV1	419J2513.D	NA	10/25/19 15:52
MOIL 100	SHJ0406-CAL7	419J2514.D	NA	10/25/19 16:12
MOIL 250	SHJ0406-CAL8	419J2515.D	NA	10/25/19 16:33
MOIL 500	SHJ0406-CAL9	419J2516.D	NA	10/25/19 16:53
MOIL 1000	SHJ0406-CALA	419J2517.D	NA	10/25/19 17:13
MOIL 2500	SHJ0406-CALB	419J2518.D	NA	10/25/19 17:34
MOIL 5000	SHJ0406-CALC	419J2519.D	NA	10/25/19 17:54
MOIL SCV	SHJ0406-SCV2	419J2520.D	NA	10/25/19 18:14



ANALYSIS SEQUENCE

SHJ0406

Instrument: FID4
Calibration ID: CJ00089

Element Column ID: G004925

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-IBL1	Retention Time Standard	QC		1	H006806		
SHJ0406-IBL2	Instrument Blank	QC		2	H007457		
SHJ0406-CAL1	DIESEL 50	QC		3	H010495		
SHJ0406-CAL2	DIESEL 100	QC		4	H010496		
SHJ0406-CAL3	DIESEL 250	QC		5	H010497		
SHJ0406-CAL4	DIESEL 500	QC		6	H010498		
SHJ0406-CAL5	DIESEL 1000	QC		7	H010499		
SHJ0406-CAL6	DIESEL 2500	QC		8	H009367		
SHJ0406-SCV1	DIESEL SCV	QC		9	H008294		
SHJ0406-CAL7	MOIL 100	QC		10	H008395		
SHJ0406-CAL8	MOIL 250	QC		11	H008396		
SHJ0406-CAL9	MOIL 500	QC		12	H008397		
SHJ0406-CALA	MOIL 1000	QC		13	H007659		
SHJ0406-CALB	MOIL 2500	QC		14	H008398		
SHJ0406-CALC	MOIL 5000	QC		15	H007458		
SHJ0406-SCV2	MOIL SCV	QC		16	H008399		
SHJ0406-CALD	AK103 100	QC		17	H010478		
SHJ0406-CALE	AK103 250	QC		18	H010479		
SHJ0406-CALF	AK103 500	QC		19	H010480		
SHJ0406-CALG	AK103 1000	QC		20	H010481		
SHJ0406-CALH	AK103 2500	QC		21	H010482		
SHJ0406-CALI	AK103 5000	QC		22	H008608		



ANALYSIS SEQUENCE

SHJ0406

Instrument: FID4

Element Column ID: G004925

Calibration ID: CJ00089

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SHJ0406-SCV3	AK103 SCV	QC		23	H008400		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	25-OCT-2019	11:37	419J2501.D	1	RINSE	
2	25-OCT-2019	11:55	419J2502.D	1	RINSE	
3	25-OCT-2019	12:30	419J2503.D	1	RINSE	
4	25-OCT-2019	12:51	419J2504.D	1	RINSE	
5	25-OCT-2019	13:11	419J2505.D	1	SHJ0406-IBL1	
6	25-OCT-2019	13:31	419J2506.D	1	SHJ0406-IBL2	
7	25-OCT-2019	13:52	419J2507.D	1	SHJ0406-CAL1	
8	25-OCT-2019	14:12	419J2508.D	1	SHJ0406-CAL2	
9	25-OCT-2019	14:32	419J2509.D	1	SHJ0406-CAL3	
10	25-OCT-2019	14:53	419J2510.D	1	SHJ0406-CAL4	
11	25-OCT-2019	15:13	419J2511.D	1	SHJ0406-CAL5	
12	25-OCT-2019	15:32	419J2512.D	1	SHJ0406-CAL6	
13	25-OCT-2019	15:52	419J2513.D	1	SHJ0406-SCV1	
14	25-OCT-2019	16:12	419J2514.D	1	SHJ0406-CAL7	
15	25-OCT-2019	16:33	419J2515.D	1	SHJ0406-CAL8	
16	25-OCT-2019	16:53	419J2516.D	1	SHJ0406-CAL9	
17	25-OCT-2019	17:13	419J2517.D	1	SHJ0406-CALA	
18	25-OCT-2019	17:34	419J2518.D	1	SHJ0406-CALB	
19	25-OCT-2019	17:54	419J2519.D	1	SHJ0406-CALC	
20	25-OCT-2019	18:14	419J2520.D	1	SHJ0406-SCV2	
21	25-OCT-2019	18:35	419J2521.D	1	SHJ0406-CALD	
22	25-OCT-2019	18:55	419J2522.D	1	SHJ0406-CALE	
23	25-OCT-2019	19:15	419J2523.D	1	SHJ0406-CALF	
24	25-OCT-2019	19:34	419J2524.D	1	SHJ0406-CALG	
25	25-OCT-2019	19:54	419J2525.D	1	SHJ0406-CALH	
26	25-OCT-2019	20:15	419J2526.D	1	SHJ0406-CALI	
27	25-OCT-2019	20:35	419J2527.D	1	SHJ0406-SCV3	
28	25-OCT-2019	20:55	419J2528.D	1	SHJ0406-ICV1	
29	25-OCT-2019	21:16	419J2529.D	1	SHJ0406-ICV2	
30	25-OCT-2019	21:36	419J2530.D	1	BHJ0711-BLK1	
31	25-OCT-2019	21:56	419J2531.D	1	BHJ0711-BS1	
32	25-OCT-2019	22:16	419J2532.D	1	19J0373-01	
33	25-OCT-2019	22:35	419J2533.D	1	19J0373-02	
34	25-OCT-2019	22:55	419J2534.D	1	19J0373-03	
35	25-OCT-2019	23:16	419J2535.D	1	19J0373-04	
36	25-OCT-2019	23:36	419J2536.D	1	19J0373-05	
37	25-OCT-2019	23:57	419J2537.D	1	19J0373-06	
38	26-OCT-2019	00:17	419J2538.D	1	19J0373-07	
39	26-OCT-2019	00:37	419J2539.D	1	19J0373-08	
40	26-OCT-2019	00:58	419J2540.D	1	SHJ0406-CCV1	
41	26-OCT-2019	01:18	419J2541.D	1	SHJ0406-CCV2	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 25-OCT-2019

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1137	419J2501.D	RINSE		1	NO MANUAL INTEGRATION
1155	419J2502.D	RINSE		1	NO MANUAL INTEGRATION
1230	419J2503.D	RINSE		1	NO MANUAL INTEGRATION
1251	419J2504.D	RINSE		1	NO MANUAL INTEGRATION
1311	419J2505.D	SHJ0406-IBL1		1	NO MANUAL INTEGRATION
1331	419J2506.D	SHJ0406-IBL2		1	NO MANUAL INTEGRATION
1352	419J2507.D	SHJ0406-CAL1		1	NO MANUAL INTEGRATION
1412	419J2508.D	SHJ0406-CAL2		1	o-terph,
1432	419J2509.D	SHJ0406-CAL3		1	NO MANUAL INTEGRATION
1453	419J2510.D	SHJ0406-CAL4		1	o-terph,
1513	419J2511.D	SHJ0406-CAL5		1	o-terph,
1532	419J2512.D	SHJ0406-CAL6		1	o-terph,
1552	419J2513.D	SHJ0406-SCV1		1	NO MANUAL INTEGRATION
1612	419J2514.D	SHJ0406-CAL7		1	Triacon Surr,
1633	419J2515.D	SHJ0406-CAL8		1	Triacon Surr,
1653	419J2516.D	SHJ0406-CAL9		1	Triacon Surr,
1713	419J2517.D	SHJ0406-CALA		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1734	419J2518.D	SHJ0406-CALB		1	Triacon Surr,
1754	419J2519.D	SHJ0406-CALC		1	Triacon Surr,
1814	419J2520.D	SHJ0406-SCV2		1	Triacon Surr,
1835	419J2521.D	SHJ0406-CALD		1	Triacon Surr,
1855	419J2522.D	SHJ0406-CALE		1	Triacon Surr,
1915	419J2523.D	SHJ0406-CALF		1	Triacon Surr,
1934	419J2524.D	SHJ0406-CALG		1	Triacon Surr,
1954	419J2525.D	SHJ0406-CALH		1	Triacon Surr,
2015	419J2526.D	SHJ0406-CALI		1	Triacon Surr,
2035	419J2527.D	SHJ0406-SCV3		1	Triacon Surr,
2055	419J2528.D	SHJ0406-ICV1		1	o-terph,
2116	419J2529.D	SHJ0406-ICV2		1	Triacon Surr,
2136	419J2530.D	BHJ0711-BLK1		1	NO MANUAL INTEGRATION
2156	419J2531.D	BHJ0711-BS1		1	o-terph,
2216	419J2532.D	19J0373-01		1	Triacon Surr,
2235	419J2533.D	19J0373-02		1	NO MANUAL INTEGRATION
2255	419J2534.D	19J0373-03		1	Triacon Surr,
2316	419J2535.D	19J0373-04		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2336	419J2536.D	19J0373-05	1	o-terph,	Triacon Surr,
2357	419J2537.D	19J0373-06	1	Triacon Surr,	
0017	419J2538.D	19J0373-07	1	Triacon Surr,	
0037	419J2539.D	19J0373-08	1	Triacon Surr,	
0058	419J2540.D	SHJ0406-CCV1	1	o-terph,	
0118	419J2541.D	SHJ0406-CCV2	1	Triacon Surr,	

Security Status Report

Date: 30-Oct-2019 07:25

419J2507.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2508.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2509.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2510.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2511.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2512.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2513.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2514.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2515.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2516.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2517.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2518.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2519.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2520.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2521.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2522.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2523.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2524.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2525.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2526.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2527.D	Data Locked	j rains, 30-Oct-2019 07:20

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200602.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	02-JUN-2020	07:40	420F0201.D	1	RINSE	
2	02-JUN-2020	07:59	420F0202.D	1	RINSE	
3	02-JUN-2020	08:19	420F0203.D	1	SIF0018-IBL1	
4	02-JUN-2020	08:38	420F0204.D	1	SIF0018-IBL2	
5	02-JUN-2020	08:58	420F0205.D	1	SIF0018-CAL1	
6	02-JUN-2020	09:17	420F0206.D	1	SIF0018-CAL2	
7	02-JUN-2020	09:37	420F0207.D	1	SIF0018-CAL3	
8	02-JUN-2020	09:56	420F0208.D	1	SIF0018-CAL4	
9	02-JUN-2020	10:16	420F0209.D	1	SIF0018-CAL5	
10	02-JUN-2020	10:36	420F0210.D	1	SIF0018-CAL6	
11	02-JUN-2020	10:55	420F0211.D	1	SIF0018-SCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200602.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 02-JUN-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0740	420F0201.D	RINSE		1	NO MANUAL INTEGRATION
0759	420F0202.D	RINSE		1	NO MANUAL INTEGRATION
0819	420F0203.D	SIF0018-IBL1		1	NO MANUAL INTEGRATION
0838	420F0204.D	SIF0018-IBL2		1	NO MANUAL INTEGRATION
0858	420F0205.D	SIF0018-CAL1		1	Triacon Surr,
0917	420F0206.D	SIF0018-CAL2		1	Triacon Surr,
0937	420F0207.D	SIF0018-CAL3		1	Triacon Surr,
0956	420F0208.D	SIF0018-CAL4		1	Triacon Surr,
1016	420F0209.D	SIF0018-CAL5		1	Triacon Surr,
1036	420F0210.D	SIF0018-CAL6		1	Triacon Surr,
1055	420F0211.D	SIF0018-SCV1		1	Triacon Surr,

Security Status Report

Date: 02-Jun-2020 12:52

420F0201.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0202.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0203.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0204.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0205.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0206.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0207.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0208.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0209.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0210.D	Data Locked	christopher, 02-Jun-2020 12:51
420F0211.D	Data Locked	christopher, 02-Jun-2020 12:51



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIH0092

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIH0092-IBL1	420H1003B.D	NA	08/10/20 08:50
Instrument Blank	SIH0092-IBL2	420H1004B.D	NA	08/10/20 09:10
CREOSOTE 100	SIH0092-CAL1	420H1008.D	NA	08/10/20 11:44
CREOSOTE 250	SIH0092-CAL2	420H1009.D	NA	08/10/20 12:03
CREOSOTE 500	SIH0092-CAL3	420H1010.D	NA	08/10/20 12:23
CREOSOTE 1000	SIH0092-CAL4	420H1011.D	NA	08/10/20 12:43
CREOSOTE 2500	SIH0092-CAL5	420H1012.D	NA	08/10/20 13:02
CREOSOTE 5000	SIH0092-CAL6	420H1013.D	NA	08/10/20 13:22

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	10-AUG-2020	08:11	420H1001.D	1	RINSE	
2	10-AUG-2020	08:30	420H1002.D	1	RINSE	
3	10-AUG-2020	08:50	420H1003.D	1	SEQ-IBL1	
4	10-AUG-2020	09:10	420H1004.D	1	SEQ-IBL2	
5	10-AUG-2020	09:30	420H1005.D	1	SEQ-ICV1	
6	10-AUG-2020	09:49	420H1006.D	1	SEQ-ICV2	
7	10-AUG-2020	10:09	420H1007.D	1	I006965	
8	10-AUG-2020	11:44	420H1008.D	1	SEQ-CAL1	
9	10-AUG-2020	12:03	420H1009.D	1	SEQ-CAL2	
10	10-AUG-2020	12:23	420H1010.D	1	SEQ-CAL3	
11	10-AUG-2020	12:43	420H1011.D	1	SEQ-CAL4	
12	10-AUG-2020	13:02	420H1012.D	1	SEQ-CAL5	
13	10-AUG-2020	13:22	420H1013.D	1	SEQ-CAL6	
14	10-AUG-2020	15:15	420H1014.D	1	BIH0129-BLK1	
15	10-AUG-2020	15:34	420H1015.D	1	BIH0129-BS1	
16	10-AUG-2020	15:54	420H1016.D	1	20H0053-01	
17	10-AUG-2020	16:14	420H1017.D	1	20H0058-01	
18	10-AUG-2020	16:34	420H1018.D	1	20H0058-02	
19	10-AUG-2020	16:53	420H1019.D	1	20H0058-03	
20	10-AUG-2020	17:13	420H1020.D	1	20H0060-01	
21	10-AUG-2020	17:33	420H1021.D	1	20H0060-02	
22	10-AUG-2020	17:52	420H1022.D	1	20H0060-03	
23	10-AUG-2020	18:12	420H1023.D	1	BIH0058-BLK1	
24	10-AUG-2020	18:32	420H1024.D	1	BIH0058-BS1	
25	10-AUG-2020	18:52	420H1025.D	1	20G0289-03	
26	10-AUG-2020	19:11	420H1026.D	1	20G0291-01	
27	10-AUG-2020	19:31	420H1027.D	1	SEQ-CCV1	
28	10-AUG-2020	19:51	420H1028.D	1	SEQ-CCV2	
29	10-AUG-2020	20:11	420H1029.D	1	SEQ-ICV3	
30	10-AUG-2020	20:30	420H1030.D	1	BIH0100-BLK1	
31	10-AUG-2020	20:50	420H1031.D	1	BIH0100-BS1	
32	10-AUG-2020	21:10	420H1032.D	1	BIH0100-BSD1	
33	10-AUG-2020	21:29	420H1033.D	1	20G0287-01	
34	10-AUG-2020	21:49	420H1034.D	1	BIH0100-MS1	
35	10-AUG-2020	22:09	420H1035.D	1	BIH0100-MSD1	
36	10-AUG-2020	22:28	420H1036.D	1	BIH0113-BLK1	
37	10-AUG-2020	22:48	420H1037.D	1	BIH0113-BS1	
38	10-AUG-2020	23:08	420H1038.D	1	BIH0113-BSD1	
39	10-AUG-2020	23:27	420H1039.D	1	20H0047-01	
40	10-AUG-2020	23:47	420H1040.D	1	20H0047-02	
41	11-AUG-2020	00:06	420H1041.D	1	20H0047-03	
42	11-AUG-2020	00:26	420H1042.D	1	SEQ-CCV3	
43	11-AUG-2020	00:46	420H1043.D	1	SEQ-CCV4	
44	11-AUG-2020	01:05	420H1044.D	1	SEQ-CCV5	
45	11-AUG-2020	01:25	420H1045.D	1	BIH0166-BLK1	
46	11-AUG-2020	01:44	420H1046.D	1	BIH0166-BS1	
47	11-AUG-2020	02:04	420H1047.D	1	BIH0166-BSD1	
48	11-AUG-2020	02:23	420H1048.D	1	20H0082-01	
49	11-AUG-2020	02:43	420H1049.D	1	BIH0166-MS1	
50	11-AUG-2020	03:03	420H1050.D	1	BIH0166-MSD1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	11-AUG-2020	03:22	420H1051.D	1	20H0082-02	
52	11-AUG-2020	03:42	420H1052.D	1	20H0082-03	
53	11-AUG-2020	04:01	420H1053.D	1	20H0082-04	
54	11-AUG-2020	04:21	420H1054.D	1	20H0082-05	
55	11-AUG-2020	04:40	420H1055.D	1	20H0082-06	
56	11-AUG-2020	05:00	420H1056.D	1	20H0082-07	
57	11-AUG-2020	05:19	420H1057.D	1	20H0082-08	
58	11-AUG-2020	05:39	420H1058.D	1	20H0082-09	
59	11-AUG-2020	05:58	420H1059.D	1	SEQ-CCV6	
60	11-AUG-2020	06:18	420H1060.D	1	SEQ-CCV7	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 10-AUG-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0811	420H1001.D	RINSE		1	NO MANUAL INTEGRATION
0830	420H1002.D	RINSE		1	NO MANUAL INTEGRATION
0850	420H1003.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0910	420H1004.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
0930	420H1005.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0949	420H1006.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
1009	420H1007.D	I006965		1	NO MANUAL INTEGRATION
1144	420H1008.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1203	420H1009.D	SEQ-CAL2		1	o-terph,
1223	420H1010.D	SEQ-CAL3		1	o-terph,
1243	420H1011.D	SEQ-CAL4		1	o-terph,
1302	420H1012.D	SEQ-CAL5		1	o-terph,
1322	420H1013.D	SEQ-CAL6		1	o-terph,

Security Status Report

Date: 10-Aug-2020 15:38

420H1001.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1002.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1003.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1004.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1005.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1006.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1007.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1008.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1009.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1010.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1011.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1012.D	Data Locked	christopher, 10-Aug-2020 15:38
420H1013.D	Data Locked	christopher, 10-Aug-2020 15:38



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIH0165

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIH0165-IBL1	420H1403.D	NA	08/14/20 08:43
Instrument Blank	SIH0165-IBL2	420H1404.D	NA	08/14/20 09:03
DIESEL ICV	SIH0165-ICV1	420H1405.D	NA	08/14/20 09:22
MOIL ICV	SIH0165-ICV2	420H1406.D	NA	08/14/20 09:42
CREOSOTE ICV	SIH0165-ICV3	420H1407.D	NA	08/14/20 10:01
ZZZZZ	BIH0223-BLK1	420H1408.D	Solid	08/14/20 10:21
ZZZZZ	BIH0223-BS1	420H1409.D	Solid	08/14/20 10:41
ZZZZZ	20H0120-01	420H1410.D	Solid	08/14/20 11:00
ZZZZZ	20H0120-02	420H1411.D	Solid	08/14/20 11:20
ZZZZZ	20H0120-03	420H1412.D	Solid	08/14/20 11:39
DIESEL CCV	SIH0165-CCV1	420H1413.D	NA	08/14/20 11:59
MOIL CCV	SIH0165-CCV2	420H1414.D	NA	08/14/20 12:18
CREOSOTE CCV	SIH0165-CCV3	420H1415.D	NA	08/14/20 12:38
ZZZZZ	20H0139-03	420H1420.D	Water	08/14/20 14:16
ZZZZZ	20H0139-04	420H1421.D	Water	08/14/20 14:36
ZZZZZ	20H0139-05	420H1422.D	Water	08/14/20 14:55
ZZZZZ	20H0142-01	420H1423.D	Water	08/14/20 15:15
ZZZZZ	20H0099-01	420H1427.D	Water	08/14/20 16:33
ZZZZZ	20H0099-02	420H1428.D	Water	08/14/20 16:53
ZZZZZ	20H0099-03	420H1429.D	Water	08/14/20 17:13
ZZZZZ	20H0099-04	420H1430.D	Water	08/14/20 17:32
DIESEL CCV	SIH0165-CCV4	420H1431.D	NA	08/14/20 17:52
MOIL CCV	SIH0165-CCV5	420H1432.D	NA	08/14/20 18:11
JETA CCV	SIH0165-CCV6	420H1433.D	NA	08/14/20 18:31
ZZZZZ	20H0114-01	420H1437.D	Water	08/14/20 19:49
ZZZZZ	20H0114-02	420H1438.D	Water	08/14/20 20:09
ZZZZZ	20H0085-01	420H1441.D	Solid	08/14/20 21:08
ZZZZZ	20H0085-02	420H1442.D	Solid	08/14/20 21:27
ZZZZZ	20H0085-03	420H1443.D	Solid	08/14/20 21:47
ZZZZZ	20H0085-04	420H1444.D	Solid	08/14/20 22:06



Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIH0165

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DIESEL CCV	SIH0165-CCV7	420H1445.D	NA	08/14/20 22:26
MOIL CCV	SIH0165-CCV8	420H1446.D	NA	08/14/20 22:45

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200814.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	14-AUG-2020	08:04	420H1401.D	1	RINSE	
2	14-AUG-2020	08:23	420H1402.D	1	RINSE	
3	14-AUG-2020	08:43	420H1403.D	1	SEQ-IBL1	
4	14-AUG-2020	09:03	420H1404.D	1	SEQ-IBL2	
5	14-AUG-2020	09:22	420H1405.D	1	SEQ-ICV1	
6	14-AUG-2020	09:42	420H1406.D	1	SEQ-ICV2	
7	14-AUG-2020	10:01	420H1407.D	1	SEQ-ICV3	
8	14-AUG-2020	10:21	420H1408.D	1	BIH0223-BLK1	
9	14-AUG-2020	10:41	420H1409.D	1	BIH0223-BS1	
10	14-AUG-2020	11:00	420H1410.D	1	20H0120-01	
11	14-AUG-2020	11:20	420H1411.D	1	20H0120-02	
12	14-AUG-2020	11:39	420H1412.D	1	20H0120-03	
13	14-AUG-2020	11:59	420H1413.D	1	SEQ-CCV1	
14	14-AUG-2020	12:18	420H1414.D	1	SEQ-CCV2	
15	14-AUG-2020	12:38	420H1415.D	1	SEQ-CCV3	
16	14-AUG-2020	12:58	420H1416.D	1	SEQ-ICV4	
17	14-AUG-2020	13:17	420H1417.D	1	BIH0255-BLK1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200814.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 14-AUG-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0804	420H1401.D RINSE			1	NO MANUAL INTEGRATION
0823	420H1402.D RINSE			1	NO MANUAL INTEGRATION
0843	420H1403.D SEQ-IBL1			1	C40,
0903	420H1404.D SEQ-IBL2			1	NO MANUAL INTEGRATION
0922	420H1405.D SEQ-ICV1			1	o-terph,
0942	420H1406.D SEQ-ICV2			1	Triacon Surr,
1001	420H1407.D SEQ-ICV3			1	NO MANUAL INTEGRATION
1021	420H1408.D BIH0223-BLK1			1	o-terph,
1041	420H1409.D BIH0223-BS1			1	NO MANUAL INTEGRATION
1100	420H1410.D 20H0120-01			1	o-terph, Triacon Surr,
1120	420H1411.D 20H0120-02			1	o-terph, Triacon Surr,
1139	420H1412.D 20H0120-03			1	o-terph, Triacon Surr,
1159	420H1413.D SEQ-CCV1			1	o-terph,
1218	420H1414.D SEQ-CCV2			1	Triacon Surr,
1238	420H1415.D SEQ-CCV3			1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Aug-2020 13:57

420H1401.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1402.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1403.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1404.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1405.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1406.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1407.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1408.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1409.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1410.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1411.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1412.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1413.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1414.D	Data Locked	christopher, 14-Aug-2020 13:52
420H1415.D	Data Locked	christopher, 14-Aug-2020 13:52



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0272

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIJ0272-IBL1	420J1503.D	NA	10/15/20 12:40
Instrument Blank	SIJ0272-IBL2	420J1504.D	NA	10/15/20 13:00
DIESEL ICV	SIJ0272-ICV1	420J1505.D	NA	10/15/20 13:20
MOIL ICV	SIJ0272-ICV2	420J1506.D	NA	10/15/20 13:41
Blank	BIJ0402-BLK1	420J1508.D	Solid	10/15/20 14:21
LCS	BIJ0402-BS1	420J1509.D	Solid	10/15/20 14:42
ZZZZZ	20J0036-01	420J1510.D	Solid	10/15/20 15:02
ZZZZZ	20J0036-02	420J1511.D	Solid	10/15/20 15:23
USMPDI-055SG-201006	20J0121-01	420J1512.D	Solid	10/15/20 15:43
ZZZZZ	20J0122-01	420J1513.D	Solid	10/15/20 16:03
ZZZZZ	20I0507-01	420J1514.D	Solid	10/15/20 16:24
ZZZZZ	20I0507-02	420J1515.D	Solid	10/15/20 16:44
ZZZZZ	20I0507-03	420J1516.D	Solid	10/15/20 17:05
DIESEL CCV	SIJ0272-CCV1	420J1517.D	NA	10/15/20 17:25
MOIL CCV	SIJ0272-CCV2	420J1518.D	NA	10/15/20 17:45
ZZZZZ	BIJ0369-BLK1	420J1520.D	Solid	10/15/20 18:27
ZZZZZ	BIJ0369-BS1	420J1521.D	Solid	10/15/20 18:47
ZZZZZ	20J0037-01	420J1522.D	Solid	10/15/20 19:08
ZZZZZ	20J0037-02	420J1523.D	Solid	10/15/20 19:28
ZZZZZ	20J0037-03	420J1524.D	Solid	10/15/20 19:48
ZZZZZ	20J0122-02	420J1525.D	Solid	10/15/20 20:09
DIESEL CCV	SIJ0272-CCV4	420J1526.D	NA	10/15/20 20:29
MOIL CCV	SIJ0272-CCV5	420J1527.D	NA	10/15/20 20:50
ZZZZZ	20J0055-03	420J1530.D	Water	10/15/20 21:51
ZZZZZ	20J0059-02	420J1531.D	Water	10/15/20 22:11
ZZZZZ	20J0059-03	420J1532.D	Water	10/15/20 22:31
ZZZZZ	20J0059-04	420J1533.D	Water	10/15/20 22:52
ZZZZZ	20J0059-05	420J1534.D	Water	10/15/20 23:12
ZZZZZ	20J0059-06	420J1535.D	Water	10/15/20 23:32
ZZZZZ	20J0059-07	420J1538.D	Water	10/16/20 00:33



Analytical Resources, Incorporated
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0272

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DIESEL CCV	SIJ0272-CCV6	420J1539.D	NA	10/16/20 00:53
MOIL CCV	SIJ0272-CCV7	420J1540.D	NA	10/16/20 01:14



ANALYSIS SEQUENCE

SIJ0272

Instrument: FID4
Calibration ID: DA00022

Printed: 10/23/2020 1:48:29PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIJ0272-IBL1	QC		1		I006239			
SIJ0272-IBL2	QC		2		I006241			
SIJ0272-ICV1	QC		3		I008275			
SIJ0272-ICV2	QC		4		I008935			
SIJ0272-ICV3	QC		5		I006985			
BIJ0402-BLK1	QC		6					
BIJ0402-BS1	QC		7					
20J0036-01	TPH NW (Extractables)	A 01	8				Anchor QEA, LLC	
20J0036-02	TPH NW (Extractables)	A 01	9				Anchor QEA, LLC	
20J0121-01	TPH NW (Extractables)	A 01	10				Anchor QEA, LLC	
20J0122-01	TPH NW (Extractables)	A 01	11				Anchor QEA, LLC	
20I0507-01	TPH NW (Extractables)	A 01	12				King County Department of Transportation	
20I0507-02	TPH NW (Extractables)	A 01	13				King County Department of Transportation	
20I0507-03	TPH NW (Extractables)	A 01	14				King County Department of Transportation	
SIJ0272-CCV1	QC		15		I008275			
SIJ0272-CCV2	QC		16		I008935			
SIJ0272-CCV3	QC		17		I006985			
BIJ0369-BLK1	QC		18					
BIJ0369-BS1	QC		19					
20J0037-01	TPH NW (Extractables)	A 01	20				Anchor QEA, LLC	
20J0037-02	TPH NW (Extractables)	A 01	21				Anchor QEA, LLC	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SIJ0272

Instrument: FID4
Calibration ID: DA00022

Printed: 10/23/2020 1:48:29PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
20J0037-03	TPH NW (Extractables)	A 01	22				Anchor QEA, LLC	
20J0122-02	TPH NW (Extractables)	A 01	23				Anchor QEA, LLC	
SIJ0272-CCV4	QC		24		I008275			
SIJ0272-CCV5	QC		25		I008935			
BIJ0307-BLK1	QC		26					
BIJ0307-BS1	QC		27					
20J0055-03	PH NW (Extractables) low lev	A 01	28				Port of Seattle	
20J0059-02	PH NW (Extractables) low lev	A 01	29				Landau Associates, Inc. - Tacoma	
20J0059-03	PH NW (Extractables) low lev	A 01	30				Landau Associates, Inc. - Tacoma	
20J0059-04	PH NW (Extractables) low lev	A 01	31				Landau Associates, Inc. - Tacoma	
20J0059-05	PH NW (Extractables) low lev	A 01	32				Landau Associates, Inc. - Tacoma	
20J0059-06	PH NW (Extractables) low lev	A 01	33				Landau Associates, Inc. - Tacoma	
BIJ0307-MS1	QC		34					
BIJ0307-MSD1	QC		35					
20J0059-07	PH NW (Extractables) low lev	A 01	36				Landau Associates, Inc. - Tacoma	
SIJ0272-CCV6	QC		37		I008275			
SIJ0272-CCV7	QC		38		I008935			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20201015.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	15-OCT-2020	11:59	420J1501.D	1	RINSE	
2	15-OCT-2020	12:19	420J1502.D	1	RINSE	
3	15-OCT-2020	12:40	420J1503.D	1	SEQ-IBL1	
4	15-OCT-2020	13:00	420J1504.D	1	SEQ-IBL2	
5	15-OCT-2020	13:20	420J1505.D	1	SEQ-ICV1	
6	15-OCT-2020	13:41	420J1506.D	1	SEQ-ICV2	
7	15-OCT-2020	14:01	420J1507.D	1	SEQ-ICV3	
8	15-OCT-2020	14:21	420J1508.D	1	BIJ0402-BLK1	
9	15-OCT-2020	14:42	420J1509.D	1	BIJ0402-BS1	
10	15-OCT-2020	15:02	420J1510.D	1	20J0036-01	
11	15-OCT-2020	15:23	420J1511.D	1	20J0036-02	
12	15-OCT-2020	15:43	420J1512.D	1	20J0121-01	
13	15-OCT-2020	16:03	420J1513.D	1	20J0122-01	
14	15-OCT-2020	16:24	420J1514.D	1	20I0507-01	
15	15-OCT-2020	16:44	420J1515.D	1	20I0507-02	
16	15-OCT-2020	17:05	420J1516.D	1	20I0507-03	
17	15-OCT-2020	17:25	420J1517.D	1	SEQ-CCV1	
18	15-OCT-2020	17:45	420J1518.D	1	SEQ-CCV2	
19	15-OCT-2020	18:06	420J1519.D	1	SEQ-CCV3	
20	15-OCT-2020	18:27	420J1520.D	1	BIJ0369-BLK1	
21	15-OCT-2020	18:47	420J1521.D	1	BIJ0369-BS1	
22	15-OCT-2020	19:08	420J1522.D	1	20J0037-01	
23	15-OCT-2020	19:28	420J1523.D	1	20J0037-02	
24	15-OCT-2020	19:48	420J1524.D	1	20J0037-03	
25	15-OCT-2020	20:09	420J1525.D	1	20J0122-02	
26	15-OCT-2020	20:29	420J1526.D	1	SEQ-CCV4	
27	15-OCT-2020	20:50	420J1527.D	1	SEQ-CCV5	
28	15-OCT-2020	21:10	420J1528.D	1	BIJ0307-BLK1	
29	15-OCT-2020	21:30	420J1529.D	1	BIJ0307-BS1	
30	15-OCT-2020	21:51	420J1530.D	1	20J0055-03	
31	15-OCT-2020	22:11	420J1531.D	1	20J0059-02	
32	15-OCT-2020	22:31	420J1532.D	1	20J0059-03	
33	15-OCT-2020	22:52	420J1533.D	1	20J0059-04	
34	15-OCT-2020	23:12	420J1534.D	1	20J0059-05	
35	15-OCT-2020	23:32	420J1535.D	1	20J0059-06	
36	15-OCT-2020	23:52	420J1536.D	1	BIJ0307-MS1	
37	16-OCT-2020	00:13	420J1537.D	1	BIJ0307-MSD1	
38	16-OCT-2020	00:33	420J1538.D	1	20J0059-07	
39	16-OCT-2020	00:53	420J1539.D	1	SEQ-CCV6	
40	16-OCT-2020	01:14	420J1540.D	1	SEQ-CCV7	
41	16-OCT-2020	01:34	420J1541.D	1	SEQ-CAL1	
42	16-OCT-2020	01:54	420J1542.D	1	SEQ-CAL2	
43	16-OCT-2020	02:15	420J1543.D	1	BIJ0465-BLK1	
44	16-OCT-2020	02:35	420J1544.D	1	20J0174-01	
45	16-OCT-2020	07:14	420J1545.D	1	20J0174-02	
46	16-OCT-2020	07:34	420J1546.D	1	20J0212-01	
47	16-OCT-2020	07:54	420J1547.D	1	20J0212-02	
48	16-OCT-2020	08:15	420J1548.D	1	20J0212-03	
49	16-OCT-2020	08:35	420J1549.D	1	20J0212-04	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201015.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 15-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1159	420J1501.D	RINSE		1	NO MANUAL INTEGRATION
1219	420J1502.D	RINSE		1	NO MANUAL INTEGRATION
1240	420J1503.D	SEQ-IBL1		1	C40, Triacon Surr,
1300	420J1504.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
1320	420J1505.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
1341	420J1506.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
1401	420J1507.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
1421	420J1508.D	BIJ0402-BLK1		1	o-terph, Triacon Surr,
1442	420J1509.D	BIJ0402-BS1		1	o-terph,
1502	420J1510.D	20J0036-01		1	o-terph, Triacon Surr,
1523	420J1511.D	20J0036-02		1	NO MANUAL INTEGRATION
1543	420J1512.D	20J0121-01		1	NO MANUAL INTEGRATION
1603	420J1513.D	20J0122-01		1	o-terph, Triacon Surr,
1624	420J1514.D	20I0507-01		1	o-terph, Triacon Surr,
1644	420J1515.D	20I0507-02		1	Triacon Surr,
1705	420J1516.D	20I0507-03		1	NO MANUAL INTEGRATION
1725	420J1517.D	SEQ-CCV1		1	o-terph,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201015.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1745	420J1518.D	SEQ-CCV2	1		Triacon Surr,
1806	420J1519.D	SEQ-CCV3	1		NO MANUAL INTEGRATION
1827	420J1520.D	BIJ0369-BLK1	1		o-terph, Triacon Surr,
1847	420J1521.D	BIJ0369-BS1	1		o-terph, Triacon Surr,
1908	420J1522.D	20J0037-01	1		Triacon Surr,
1928	420J1523.D	20J0037-02	1		Triacon Surr,
1948	420J1524.D	20J0037-03	1		o-terph, Triacon Surr,
2009	420J1525.D	20J0122-02	1		o-terph, Triacon Surr,
2029	420J1526.D	SEQ-CCV4	1		o-terph,
2050	420J1527.D	SEQ-CCV5	1		Triacon Surr,
2110	420J1528.D	BIJ0307-BLK1	1		Triacon Surr,
2130	420J1529.D	BIJ0307-BS1	1		o-terph, Triacon Surr,
2151	420J1530.D	20J0055-03	1		o-terph,
2211	420J1531.D	20J0059-02	1		Triacon Surr,
2231	420J1532.D	20J0059-03	1		NO MANUAL INTEGRATION
2252	420J1533.D	20J0059-04	1		o-terph,
2312	420J1534.D	20J0059-05	1		NO MANUAL INTEGRATION
2332	420J1535.D	20J0059-06	1		o-terph,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201015.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2352	420J1536.D	BIJ0307-MS1		1	o-terph, Triacon Surr,
0013	420J1537.D	BIJ0307-MSD1		1	o-terph,
0033	420J1538.D	20J0059-07		1	Triacon Surr,
0053	420J1539.D	SEQ-CCV6		1	o-terph,
0114	420J1540.D	SEQ-CCV7		1	Triacon Surr,
0134	420J1541.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
0154	420J1542.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
0215	420J1543.D	BIJ0465-BLK1		1	NO MANUAL INTEGRATION
0235	420J1544.D	20J0174-01		1	NO MANUAL INTEGRATION
0714	420J1545.D	20J0174-02		1	NO MANUAL INTEGRATION
0734	420J1546.D	20J0212-01		1	NO MANUAL INTEGRATION
0754	420J1547.D	20J0212-02		1	NO MANUAL INTEGRATION
0815	420J1548.D	20J0212-03		1	NO MANUAL INTEGRATION
0835	420J1549.D	20J0212-04		1	NO MANUAL INTEGRATION

420J1545.D	Data Locked	christopher, 19-Oct-2020 10:08
420J1546.D	Data Locked	christopher, 19-Oct-2020 10:08
420J1547.D	Data Locked	christopher, 19-Oct-2020 10:08
420J1548.D	Data Locked	christopher, 19-Oct-2020 10:08
420J1549.D	Data Locked	christopher, 19-Oct-2020 10:08



SURROGATE RECOVERY AND RT SUMMARY

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG/WO: <u>20J0121</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Sequence: <u>SIJ0272</u>	Instrument: <u>FID4</u>
Calibration: <u>DA00022</u>	Calibration Date: <u>08/14/2020</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0272-IBL1 (Solid)			Lab File ID: 420J1503.D			Analyzed: 10/15/20 12:40		
o-Terphenyl	100.00	95.6	50 - 150	6.27	6.66	-0.3900	N/A	
SIJ0272-IBL2 (Solid)			Lab File ID: 420J1504.D			Analyzed: 10/15/20 13:00		
o-Terphenyl	100.00	68.0	50 - 150	6.26	6.66	-0.4000	N/A	
SIJ0272-ICV1 (Solid)			Lab File ID: 420J1505.D			Analyzed: 10/15/20 13:20		
o-Terphenyl	90.000	89.4	85 - 115	6.27	6.66	-0.3900	N/A	
BIJ0402-BLK1 (Solid)			Lab File ID: 420J1508.D			Analyzed: 10/15/20 14:21		
o-Terphenyl	56.250	61.9	50 - 150	6.26	6.66	-0.4000	N/A	
BIJ0402-BS1 (Solid)			Lab File ID: 420J1509.D			Analyzed: 10/15/20 14:42		
o-Terphenyl	112.50	90.4	50 - 150	6.27	6.66	-0.3900	N/A	
20J0121-01 (Solid)			Lab File ID: 420J1512.D			Analyzed: 10/15/20 15:43		
o-Terphenyl	144.59	60.4	50 - 150	6.26	6.66	-0.4000	N/A	
SIJ0272-CCV1 (Solid)			Lab File ID: 420J1517.D			Analyzed: 10/15/20 17:25		
o-Terphenyl	90.000	91.9	85 - 115	6.27	6.66	-0.3900	N/A	
SIJ0272-CCV4 (Solid)			Lab File ID: 420J1526.D			Analyzed: 10/15/20 20:29		
o-Terphenyl	90.000	89.1	85 - 115	6.27	6.66	-0.3900	N/A	
SIJ0272-CCV6 (Solid)			Lab File ID: 420J1539.D			Analyzed: 10/16/20 00:53		
o-Terphenyl	90.000	92.3	85 - 115	6.27	6.66	-0.3900	N/A	



HOLDING TIME SUMMARY

Analysis: **NWTPH-Dx**

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

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
USMPDI-055SG-201006 20J0121-01	10/06/20 15:56	10/08/20 11:08	10/14/20 10:15	7	14	10/15/20 15:43	1	40	

* Indicates hold time exceedance.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Solid

Instrument: FID4

Analyte	MDL	RL	Units
Diesel Range Organics (C12-C24)	20.3	50.0	mg/kg
Motor Oil Range Organics (C24-C38)	21.0	100	mg/kg



Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

USMPDI-055SG-201006

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: GascoSiltronic
Matrix: Sediment Laboratory ID: 20J0121-01 A SDG: 20J0121
Sampled: 10/06/20 15:56 Prepared: 10/11/20 07:05 File ID:
% Solids: 38.16 Preparation: No Prep Wet Chem Analyzed: 10/11/20 07:36
Batch: BIJ0339 Sequence: Initial/Final: 10 g Wet / 10 g
Instrument: BAL2 Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	38.16	1	0.04	0.04	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0339

Batch Matrix: Solid

Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
USMPDI-055SG-201006	20J0121-01		10/11/20 07:05	
Blank	BIJ0339-BLK1		10/11/20 07:05	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples Batch: BIJ0339

Method: PSEP 1986, SM2540, EPA 160.1 Date: 10/11/2020 7:36

(dry at 104 (12-24 hr) then combust at 550 (30 min)) Analyst: KLE

TVS

Instrumentation	Drying Ovens: 12 Muffle Furnace: FURNACE2	Analytical Balance: BAL2
------------------------	--	---------------------------------

Batch drying time record times as mm/dd/yy hh:mm date/time in oven: 10/11/2020 7:36 date/time out: 10/12/2020 7:10 elapsed hrs = 23.6 OK	TS (%) calculated as: Final dry wt (g) = (Dry Wt - Tare Wt) TS = (Final Dry Wt)/(grams Sample-Tare)	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"
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Balance Calibration Check									
Record weights to 4 places									
Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02				
Date & Time:	10/11/20 7:06	10/11/20 7:18	10/12/20 7:32						
Cal Wt (g):	10.0000	10.0002	10.0002						
	Cal OK!	Cal OK!	Cal OK!						

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams)			dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams)			Ash Wt (g)	TVS		Notes
				1	2	3				1	2	3		(mg/kg)	(%)	
BIJ0339-BLK1	1	0.8176	0.0000	0.8176			0.0000	0.00%		0.8175	0.8175	STOP	-0.0001	0.00	0.00%	
20J0069-01	2	0.7932	13.9490	2.8272			2.0340	15.46%								
20J0069-02	3	0.7887	6.9363	4.1633			3.3746	54.89%								
20J0105-01	4	0.8024	6.1956	3.7245			2.9221	54.18%								
20J0105-02	5	0.8024	6.3452	3.7738			2.9714	53.61%								
20J0105-03	6	0.8067	8.0592	5.5738			4.7671	65.73%								
20J0121-01	7	0.8053	7.5009	3.3605			2.5552	38.16%								
20J0122-01	8	0.7972	6.0580	4.6168			3.8196	72.60%								
20J0122-02	9	0.7948	6.6887	3.2846			2.4898	42.24%								
20J0148-01	10	0.7949	6.9610	5.4490			4.6541	75.48%		5.3432	5.3430	STOP	4.5481	22,776	2.28%	
BIJ0339-DUP1	11	0.7932	6.9920	5.5031			4.7099	75.98%	RPD=0.7	5.4142	5.4141	STOP	4.6209	18,896	1.89%	RPD=18.6
BIJ0339-DUP2	12	0.8081	6.7986	5.3533			4.5452	75.87%	RSD=0.3	5.2650	5.2650	STOP	4.4569	19,427	1.94%	RSD=10.3
20J0148-07	13	0.8012	6.3020	4.5980			3.7968	69.02%		4.3859	4.3857	STOP	3.5845	55,916	5.59%	
20J0148-20	14	0.7875	8.4912	6.6931			5.9056	76.66%		6.5967	6.5962	STOP	5.8087	16,408	1.64%	



Form I
METHOD BLANK DATA SHEET
SM 2540 G-97
TotalAnalytes

Blank

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0339

Laboratory ID: BIJ0339-BLK1

Prepared: 10/11/20 07:05

Matrix: Solid

Preparation: No Prep Wet Chem

Analyzed: 10/11/20 07:36

Sequence:

Calibration:

Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U



HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor QEA, LLC

Project: GascoSiltronic

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
USMPDI-055SG-201006 20J0121-01	10/06/20 15:56	10/08/20 11:08	10/11/20 07:05	4	28	10/11/20 07:36	5	28	

* Indicates hold time exceedance.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 20J0121

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Solid

Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Batch: BIJ0355
 Date: 10/12/2020 10:25
 Analyst: DXP

Instrumentation

Drying Oven:

15
 Analytical Balance: B139298002

Batch drying time

record times as mm/dd/yy hh:mm	TS (%) calculated as:	
date/time in oven: 10/12/2020 15:39	Final dry wt (g) = (Dry Wt - Tare Wt)	
date/time out: 10/13/2020 6:20	TS = (Final Dry Wt X 100)/(sample & dish -dish tare)	
elapsed hrs: 14.7		

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
20J0095-01	0.8100	11.7500	9.0400	8.23	75.23%	Yes
20J0095-02	0.8100	11.8700	9.6300	8.82	79.75%	Yes
20J0105-01	0.8100	11.9600	7.2600	6.45	57.85%	Yes
20J0105-02	0.8100	12.0000	7.0300	6.22	55.59%	Yes
20J0105-03	0.8100	12.1300	8.1700	7.36	65.02%	Yes
20J0116-01	0.7900	12.1700	4.1700	3.38	29.70%	No
20J0121-01	0.7900	11.4600	4.9200	4.13	38.71%	Yes
20J0122-01	0.7900	12.0500	9.1600	8.37	74.33%	Yes
20J0122-02	0.7900	12.0000	5.7600	4.97	44.34%	Yes
20J0148-01	0.8000	12.0000	9.2300	8.43	75.27%	Yes
20J0148-07	0.8100	11.9300	8.6400	7.83	70.41%	Yes
20J0148-20	0.8100	11.4700	9.2900	8.48	79.55%	Yes

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Batch: BIJ0365

Date: 10/12/2020 10:25

Analyst: DXP

Drying Oven: 415

Analytical Balance: 8.139298002

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven: 10/12/20 15:39

date/time out: 10-13-20 6:20

elapsed hrs: 0.0

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/(sample & dish - dish tare)

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
20J0095-01	0.81	11.75	9.04			No Yes
20J0095-02	0.81	11.87	9.63			No Yes
20J0105-01	0.81	11.96	7.26			No Yes
20J0105-02	0.81	12.00	7.03			No Yes
20J0105-03	0.81	12.13	8.17			No Yes
20J0116-01	0.79	12.17	4.17			No
20J0121-01	0.79	11.46	4.92			No Yes
20J0122-01	0.79	12.05	9.16			No Yes
20J0122-02	0.79	12.00	5.76			No Yes
20J0148-01	0.80	12.00	9.23			No Yes
20J0148-07	0.81	11.93	8.64			No Yes
20J0148-20	0.81	11.47	9.29			No Yes