



Analytical Resources, Incorporated
Analytical Chemists and Consultants

25 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)
20J0385

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 enclose 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.



ARI Job #: 20J0385



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-20201026-115850
Sample Custodian: CO
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	SC-FB-2010261145	FB	WQ	10/26/2020	11:45	8	<input type="checkbox"/>	EPH (QAPP C-4)	EPH	30	
								TBT	SW8270ESIM	30	4°C
								PAHs and Alk. PAHs	SW8270ESIM	30	
								TPH	NWTPHDx	30	
002	SC-RB-2010261130	RB	WQ	10/26/2020	11:30	8	<input type="checkbox"/>	EPH (QAPP C-4)	EPH	30	
								TBT	SW8270ESIM	30	4°C
								PAHs and Alk. PAHs	SW8270ESIM	30	
								TPH	NWTPHDx	30	

Comment:					
Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature	Relinquished By: Signature	Received By: Signature
Print Name CORERC	Print Name Kenny Dang	Print Name	Print Name	Print Name	Print Name
Company AQ	Company ARI	Company	Company	Company	Company
Date/Time 10/27/20 0900	Date/Time 10/26/20 1135	Date/Time	Date/Time	Date/Time	Date/Time

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact



Cooler Receipt Form

ARI Client: Anchor QEA

Project Name: Gasco Electronic US Moving

COC No(s): _____ (NA)

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

Assigned ARI Job No: 200385

Tracking No: 7719 1691 9498 NA

7719 1691 9498

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 1135

3.3 3.5

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

Temp Gun ID#: DOO S20C

Cooler Accepted by: KD Date: 10/28/20 Time: 1135

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)? 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: SC Date: 10/28/2020 Time: 1217 Labels checked by: SC

**** 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:
11/25/2020 11:33

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
20J0385-01	SC-FB-2010261145	Water	10/26/20 11:45	10/28/20 11:35
20J0385-02	SC-RB-2010261130	Water	10/26/20 11:30	10/28/20 11:35



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

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

Reported:
25-Nov-2020 11:33

Case Narrative

Sample receipt

Samples as listed on the preceding page were received 28-Oct-2020 11:35 under ARI work order 20J0385. 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.

Initial and continuing calibrations were within method requirements, with the exception of SIJ0085-SCV1 which is outside of control limits high for Dibenzofuran. No corrective action was taken.

The initial calibration verification (ICV) is outside of control limits high for Benzo(a)anthracene. The sample is non-detect for this compounds. Associated QC has 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 blank was clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits, with the exception of trans and cis Decalin which has low percent recoveries. The sample is non-detect. No corrective action was taken.

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

The samples were 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.

A matrix spike and matrix spike duplicate were prepared in conjunction with sample SC-FB-2010261145. The matrix spike/matrix spike duplicate percent recoveries and RPD were within QC limits.

Extractable Organic Hydrocarbons - WA-Ecology

The samples were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements, with the exception of SIJ0055-SCV2 which is outside of control limits high for the surrogate. No corrective action was taken.

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.



Anchor QEA, LLC
1201 3rd Ave, Suite 2600
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Project: GascoSiltronic
Project Number: [none]
Project Manager: Delaney Peterson

Reported:
25-Nov-2020 11:33

Case Narrative



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

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

Reported:
25-Nov-2020 11:33

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: Water

Laboratory ID: 20J0385-01 F

SDG: 20J0385

Sampled: 10/26/20 11:45

Prepared: 10/29/20 10:56

File ID: NT1420111016.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 11/10/20 23:40

Batch: BIJ0841

Sequence: SIK0139

Initial/Final: 500 mL / 0.5 mL

Instrument: NT14

Column: ZB-5MS

Calibration: DJ00029

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
493-02-7	trans-Decalin	1	0.100	U	0.007	0.100
493-01-6	cis-Decalin	1	0.100	U	0.007	0.100
91-20-3	Naphthalene	1	0.015	J	0.011	0.100
90-12-0	1-Methylnaphthalene	1	0.100	U	0.010	0.100
91-57-6	2-Methylnaphthalene	1	0.100	U	0.010	0.100
92-52-4	Biphenyl	1	0.100	U	0.012	0.100
581-42-0	2,6-Dimethylnaphthalene	1	0.100	U	0.013	0.100
208-96-8	Acenaphthylene	1	0.010	J	0.006	0.100
83-32-9	Acenaphthene	1	0.100	U	0.011	0.100
132-64-9	Dibenzofuran	1	0.100	U	0.009	0.100
2245-38-7	2,3,5-Trimethylnaphthalene	1	0.100	U	0.008	0.100
86-73-7	Fluorene	1	0.100	U	0.007	0.100
95-15-8	Benzo(b)thiophene	1	0.100	U	0.009	0.100
85-01-8	Phenanthrene	1	0.100	U	0.009	0.100
120-12-7	Anthracene	1	0.100	U	0.025	0.100
86-74-8	Carbazole	1	0.100	U	0.028	0.100
832-69-9	1-Methylphenanthrene	1	0.100	U	0.005	0.100
206-44-0	Fluoranthene	1	0.100	U	0.007	0.100
132-65-0	Dibenzothiophene	1	0.100	U	0.021	0.100
129-00-0	Pyrene	1	0.100	U	0.014	0.100
56-55-3	Benzo(a)anthracene	1	0.100	U	0.017	0.100
218-01-9	Chrysene	1	0.100	U	0.010	0.100
205-99-2	Benzo(b)fluoranthene	1	0.100	U	0.010	0.100
205-82-3	Benzo(j)fluoranthene	1	0.100	U	0.038	0.100
207-08-9	Benzo(k)fluoranthene	1	0.100	U	0.010	0.100
	Benzofluoranthenes, Total	1	0.200	U	0.085	0.200
197-97-2	Benzo(e)pyrene	1	0.100	U	0.014	0.100
50-32-8	Benzo(a)pyrene	1	0.100	U	0.022	0.100
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.100	U	0.014	0.100
53-70-3	Dibenzo(a,h)anthracene	1	0.100	U	0.013	0.100
191-24-2	Benzo(g,h,i)perylene	1	0.100	U	0.009	0.100



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

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-01 F SDG: 20J0385
Sampled: 10/26/20 11:45 Prepared: 10/29/20 10:56 File ID: NT1420111016.D
% Solids: Preparation: EPA 3520C (Liq Liq) Analyzed: 11/10/20 23:40
Batch: BIJ0841 Sequence: SIK0139 Initial/Final: 500 mL / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
1985-5-0	Perylene	1	0.100	U	0.032	0.100
239-35-0	Benzo(b)naphtho(2,1-d)thiophene	1	0.100	U	0.100	0.100

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
Naphthalene-d8	3.0000	1.78	59.5	30 - 160	
Acenaphthene-d10	3.0000	1.80	60.1	30 - 160	
Phenanthrene-d10	3.0000	2.55	85.1	30 - 160	
Chrysene-d12	3.0000	2.68	89.2	30 - 160	
Perylene-d12	3.0000	2.25	75.1	30 - 160	

Data File: \\target\share\chem3\nt14,1\20201110,6\NT1420111016.D

Date : 10-NOV-2020 23:40

Client ID:

Sample Info: 20J0385-01

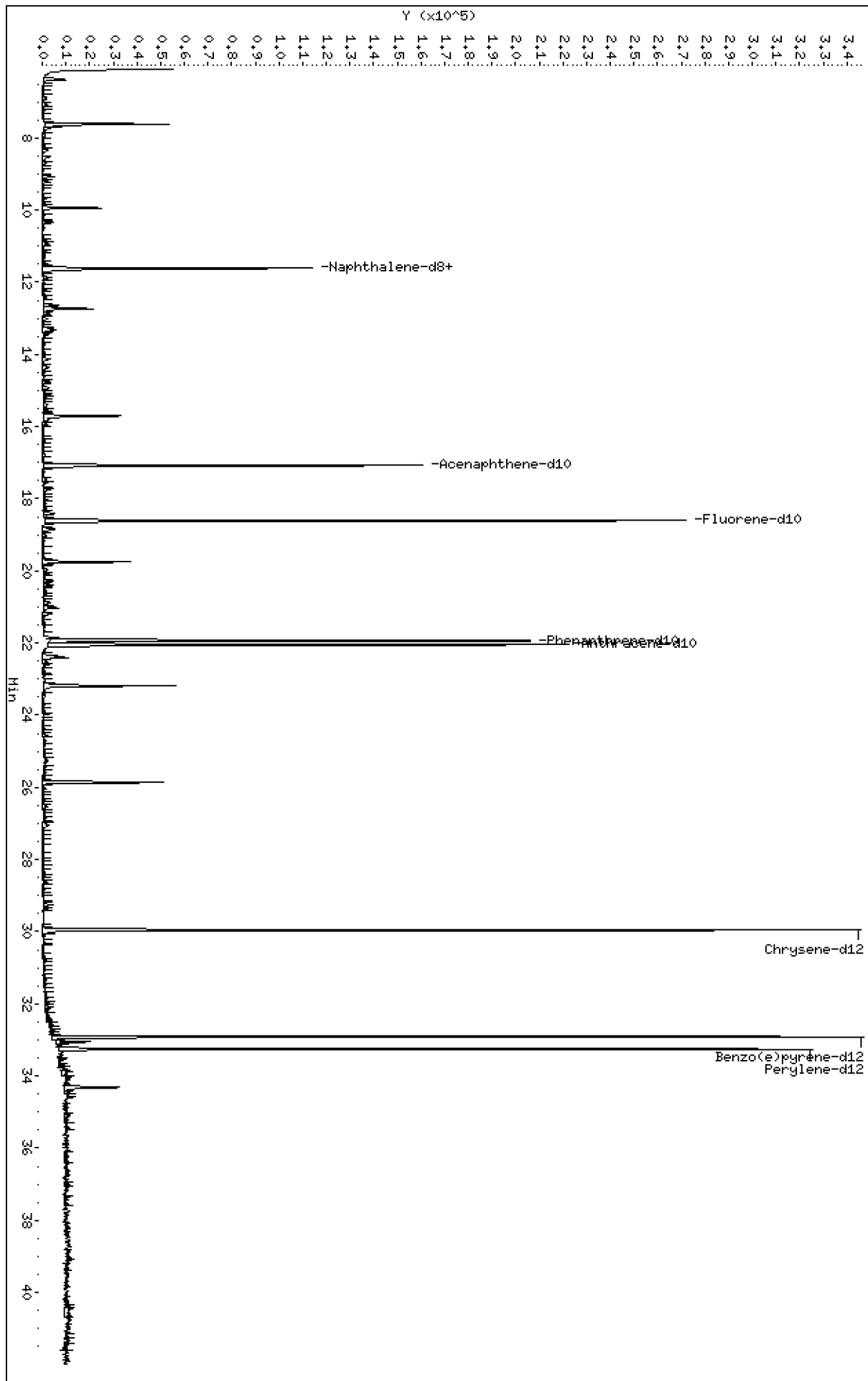
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201110,6\NT1420111016.D



Date : 10-NOV-2020 23:40

Client ID:

Instrument: nt14.i

Sample Info: 20J0385-01

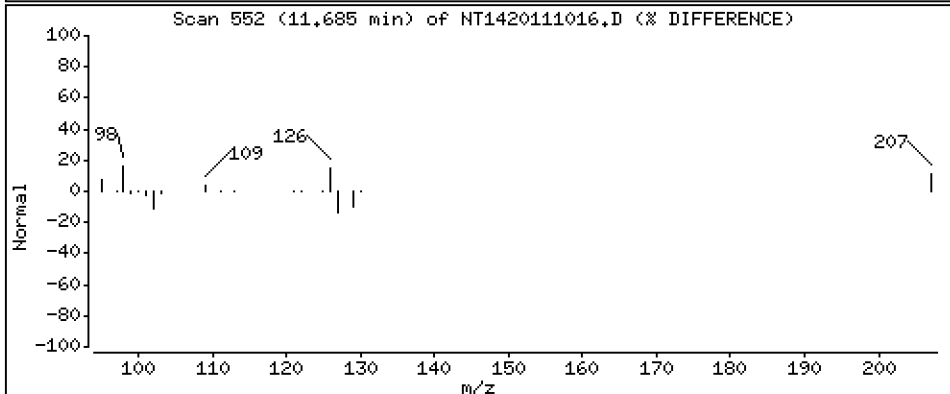
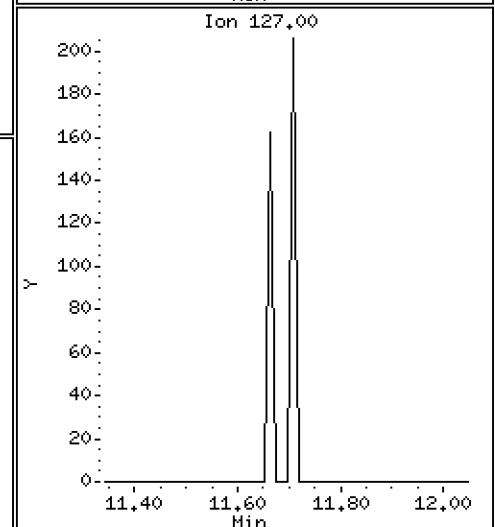
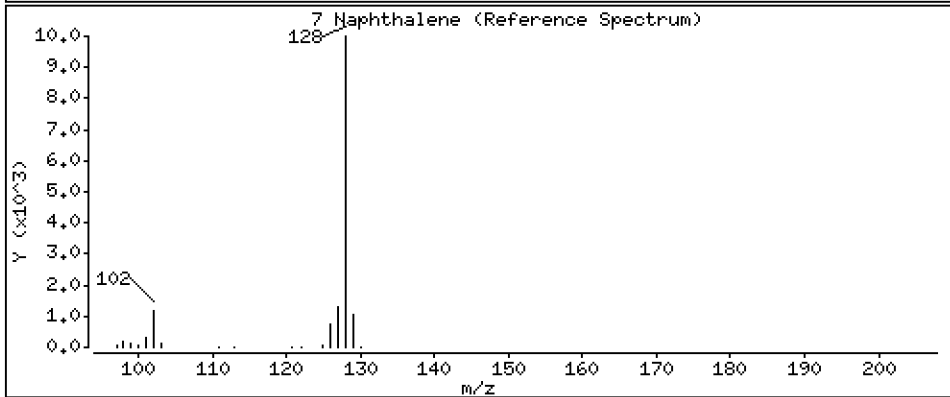
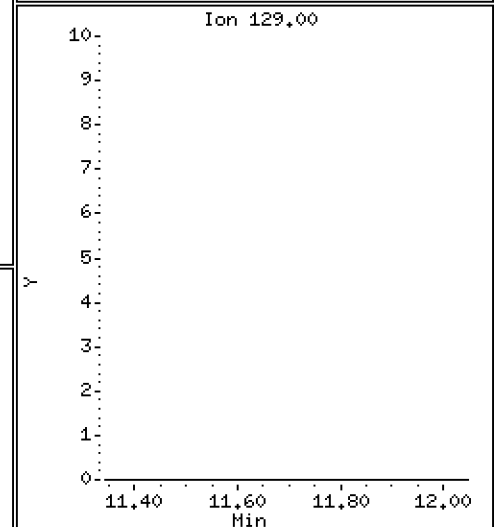
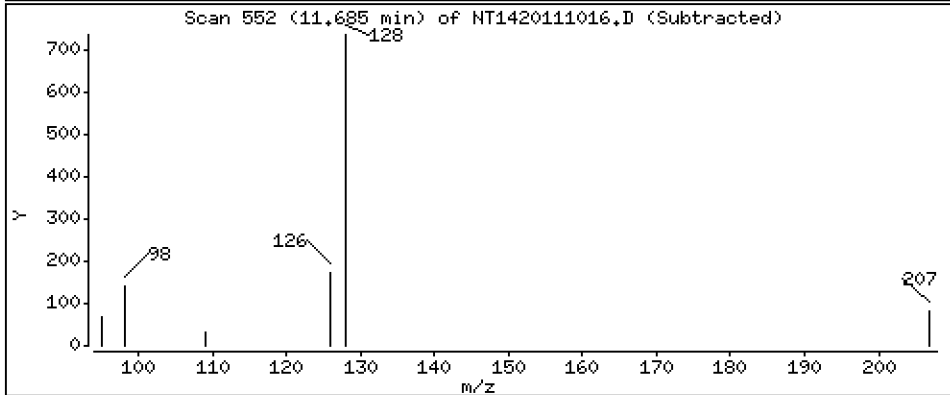
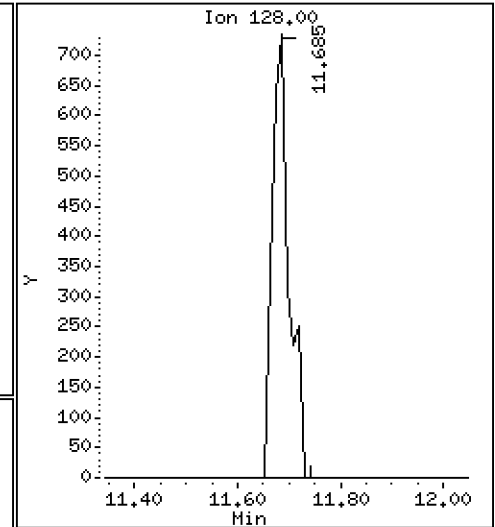
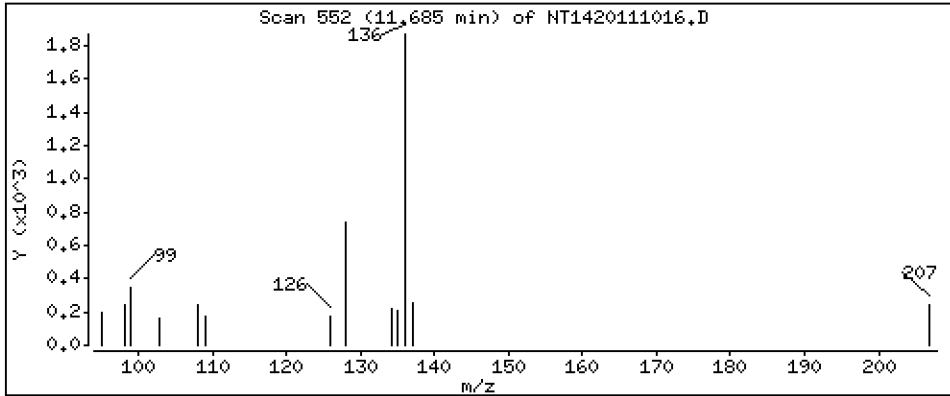
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 0,01513 ug/mL



Date : 10-NOV-2020 23:40

Client ID:

Instrument: nt14.i

Sample Info: 20J0385-01

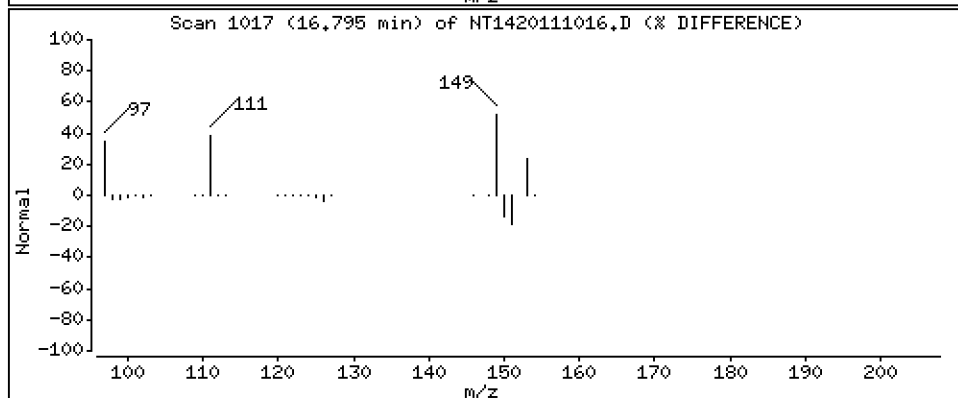
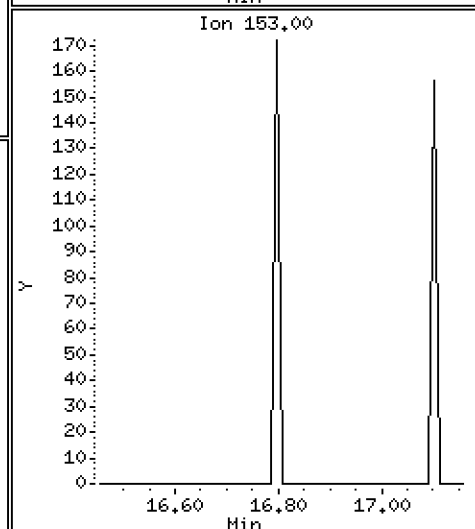
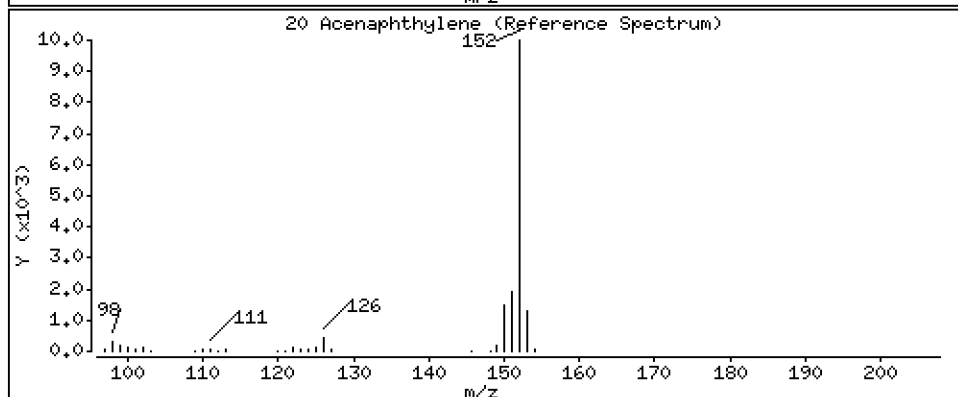
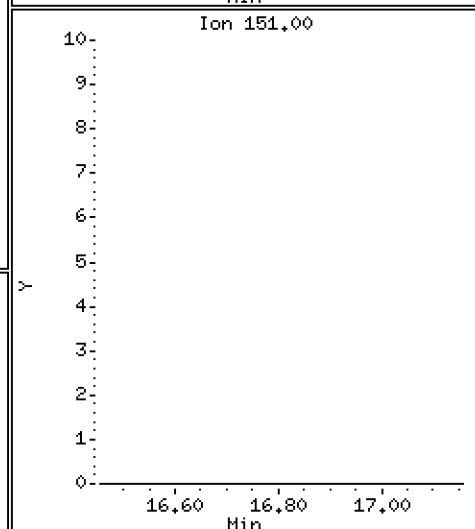
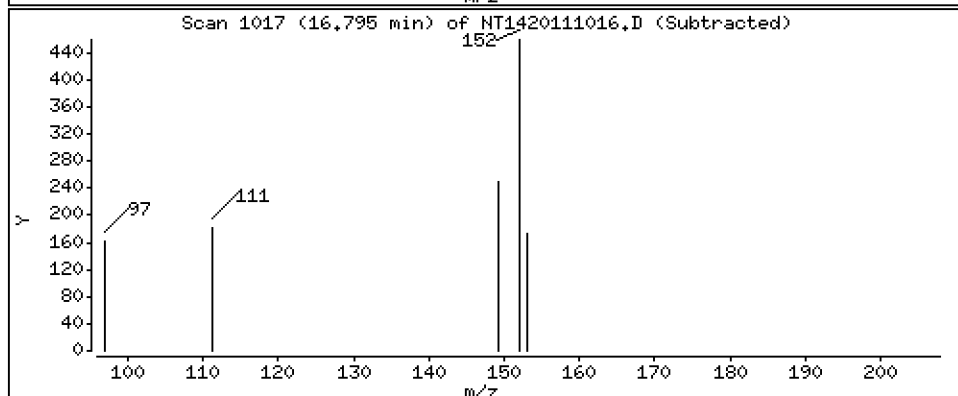
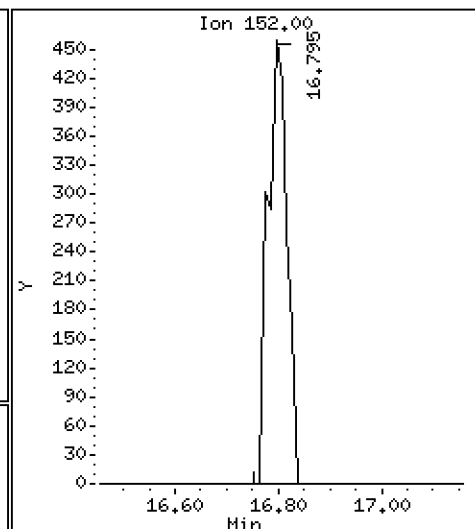
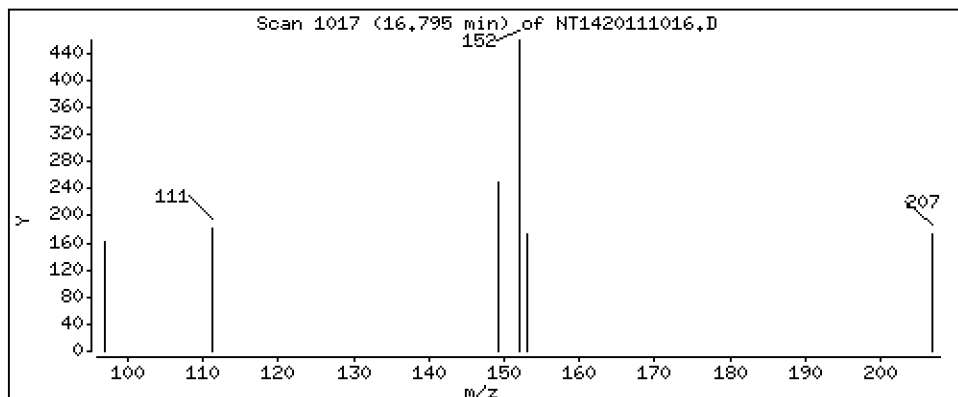
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 0,01039 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\NT1420111016.D
 Lab Smp Id: 20J0385-01
 Inj Date : 10-NOV-2020 23:40
 Operator : VTS
 Smp Info : 20J0385-01
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Meth Date : 12-Nov-2020 08:02 yev
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 14
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

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		11.619	11.630	(0.624)	193861	1.78385	1.784 (R)
7 Naphthalene	128		11.685	11.696	(0.628)	1645	0.01513	0.01513 (H)
12 Benzo(b)thiophene	134							
16 2-Methylnaphthalene	141							
17 1-methylnaphthalene	141							
18 Biphenyl	154							
19 2,6-Dimethylnaphthalene	156							
20 Acenaphthylene	152		16.795	16.806	(0.902)	1241	0.01039	0.01039
\$ 21 Acenaphthene-d10	164		17.081	17.092	(0.918)	117639	1.80266	1.803 (R)
22 Acenaphthene	153							
23 Dibenzofuran	168							
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.610	18.621	(1.000)	266345	2.00000	
26 Fluorene	166							
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188		21.941	21.941	(0.995)	299425	2.55216	2.552 (R)
36 Phenanthrene	178							
* 250 Anthracene-d10	188		22.051	22.062	(1.000)	244953	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		29.952	29.952	(0.910)	311741	2.67726	2.677 (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 (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264		32.914	32.914	(1.000)	341516	2.00000	
64 Benzo(e)pyrene	252		Compound Not Detected.					
66 Benzo(a)pyrene	252		Compound Not Detected.					
\$ 67 Perylene-d12	264		33.252	33.252	(1.010)	318235	2.25352	2.254 (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.
- H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 10-NOV-2020
 Lab File ID: NT1420111016.D Calibration Time: 13:58
 Lab Smp Id: 20J0385-01
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	314961	157481	629922	266345	-15.44
250 Anthracene-d10	299129	149565	598258	244953	-18.11
251 Benzo(e)pyrene-d1	453248	226624	906496	341516	-24.65

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.61	-0.06
250 Anthracene-d10	22.06	21.56	22.56	22.05	-0.05
251 Benzo(e)pyrene-d1	32.91	32.41	33.41	32.91	-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 - NT1420111016.D

Lab ID: 20J0385-01

nt14.i, 20201110.b\ALKYLPNA.m, 10-NOV-2020 23:40

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT1420111004.D

On Column LOD for nt14.i, 20201110.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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



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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-01 F

SDG: 20J0385

Sampled: 10/26/20 11:45

Prepared: 10/29/20 10:56

File ID: NT1420111016S.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 11/10/20 23:40

Batch: BIJ0841

Sequence: SIK0158

Initial/Final: 500 mL / 0.5 mL

Instrument: NT14

Column: ZB-5MS

Calibration: DI00041

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
C1DEC	C1-Decalins	1	0.020	U		0.020
C2DEC	C2-Decalins	1	0.020	U		0.020
C3DEC	C3-Decalins	1	0.020	U		0.020
C4DEC	C4-Decalins	1	0.020	U		0.020
C1NAPH	C1-Naphthalenes	1	0.011	J		0.020
C2NAPH	C2-Naphthalenes	1	0.020	U		0.020
C3NAPH	C3-Naphthalenes	1	0.020	U		0.020
C4NAPH	C4-Naphthalenes	1	0.020	U		0.020
C1FLR	C1-Fluorenes	1	0.020	U		0.020
C4PHNANT	C4-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C1FLPYR	C1-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C2FLR	C2-Fluorenes	1	0.020	U		0.020
C3FLR	C3-Fluorenes	1	0.020	U		0.020
C1DBTPH	C1-Dibenzothiophenes	1	0.020	U		0.020
C2DBTPH	C2-Dibenzothiophenes	1	0.020	U		0.020
C3DBTPH	C3-Dibenzothiophenes	1	0.020	U		0.020
C4DBTPH	C4-Dibenzothiophenes	1	0.020	U		0.020
C1PHNANT	C1-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2PHNANT	C2-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C3PHNANT	C3-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2FLPYR	C2-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C3FLPYR	C3-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C4FLPYR	C4-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C1BAACYR	C1-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C2BAACYR	C2-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C3BAACYR	C3-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C4BAACYR	C4-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C1BZTPH	C1-Benzothiophenes	1	0.020	U		0.020
C2BZTPH	C2-Benzothiophenes	1	0.020	U		0.020
C3BZTPH	C3-Benzothiophenes	1	0.020	U		0.020
C1NPBTP	C1-Naphthobenzothiophenes	1	0.020	U		0.020



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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-01 F

SDG: 20J0385

Sampled: 10/26/20 11:45

Prepared: 10/29/20 10:56

File ID: NT1420111016S.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 11/10/20 23:40

Batch: BIJ0841

Sequence: SIK0158

Initial/Final: 500 mL / 0.5 mL

Instrument: NT14

Column: ZB-5MS

Calibration: DI00041

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
C2NPBTP	C2-Naphthobenzothiophenes	1	0.020	U		0.020
C3NPBTP	C3-Naphthobenzothiophenes	1	0.020	U		0.020
C4NPBTP	C4-Naphthobenzothiophenes	1	0.020	U		0.020
C1DBA	C1-Dibenzo(a)anthracenes	1	0.020	U		0.020
C2DBA	C2-Dibenzo(a)anthracenes	1	0.020	U		0.020
C3DBA	C3-Dibenzo(a)anthracenes	1	0.020	U		0.020

Data File: \\target\share\chem3\nt14.1\20201110.16\SIM.B\NT1420111016S.D

Date : 10-NOV-2020 23:40

Client ID:

Sample Info: 20J0385-01

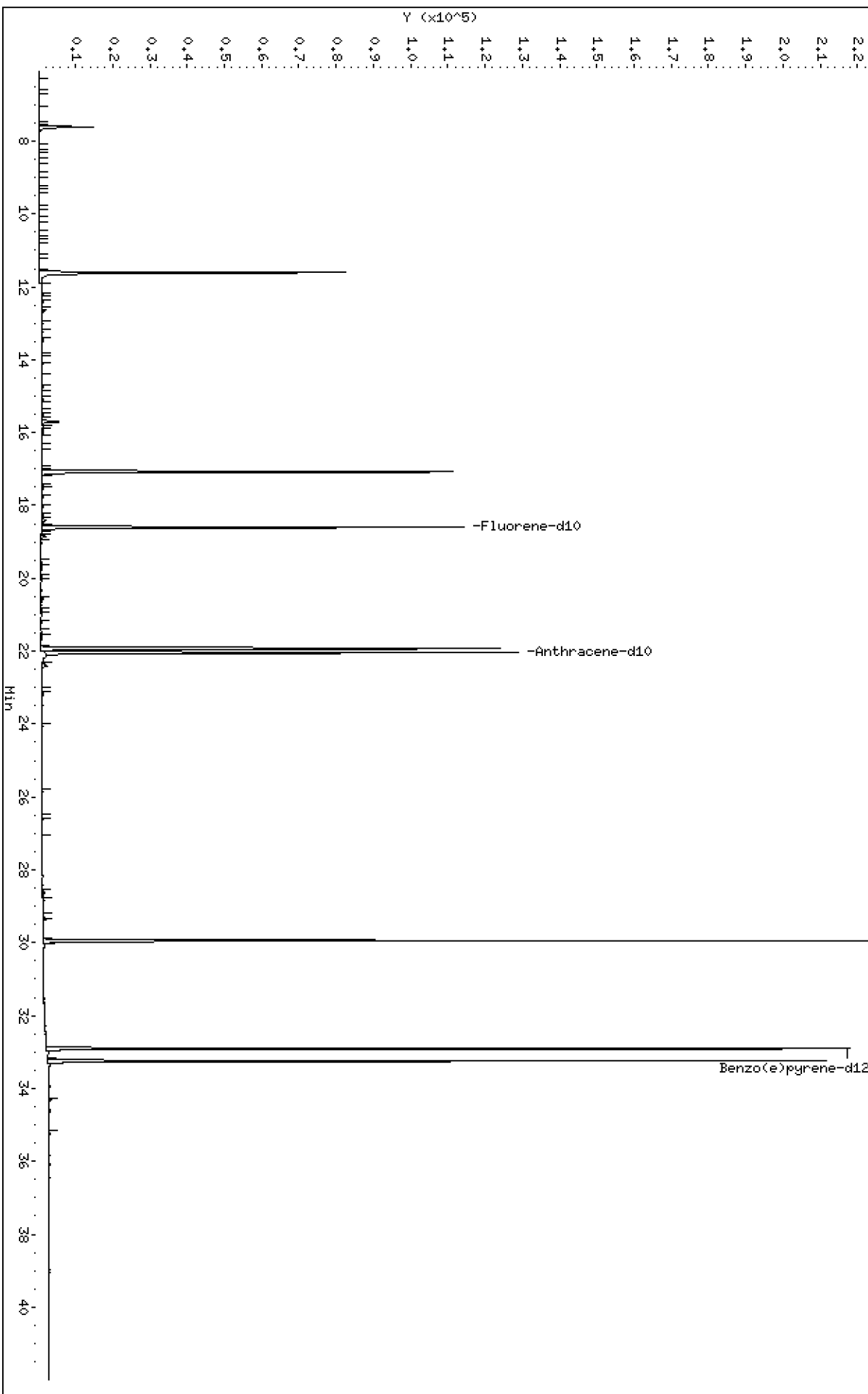
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201110.16\SIM.B\NT1420111016S.D



Date : 10-NOV-2020 23:40

Client ID:

Instrument: nt14.i

Sample Info: 20J0385-01

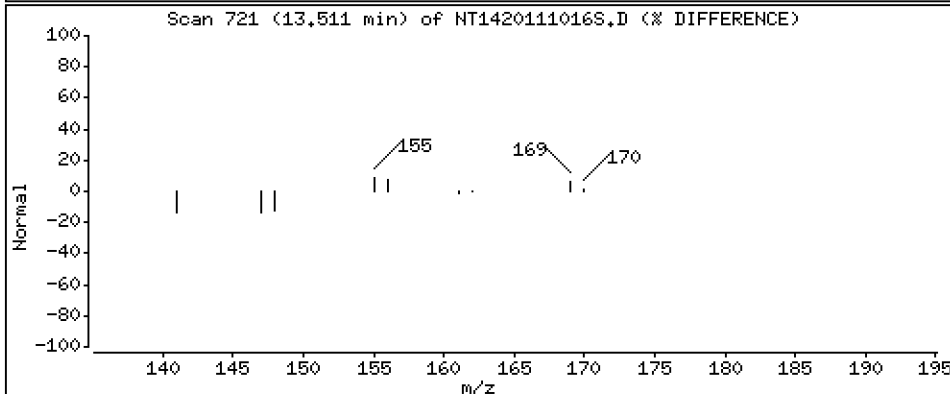
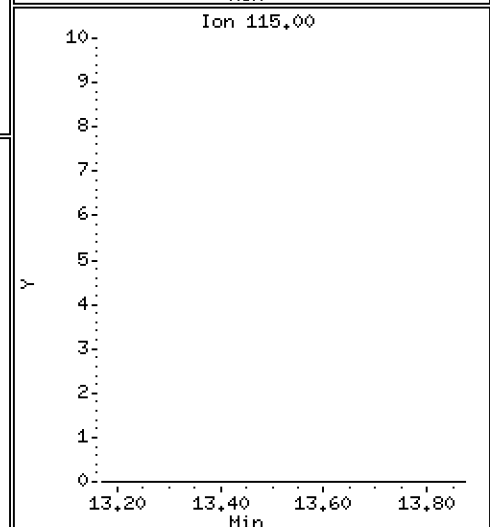
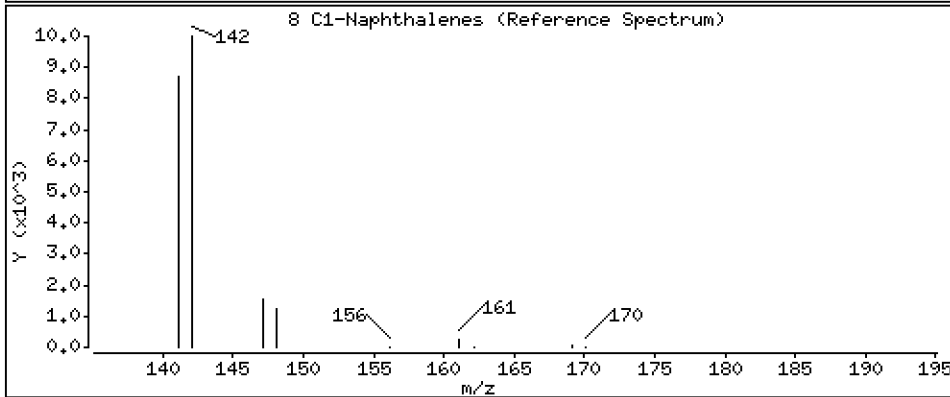
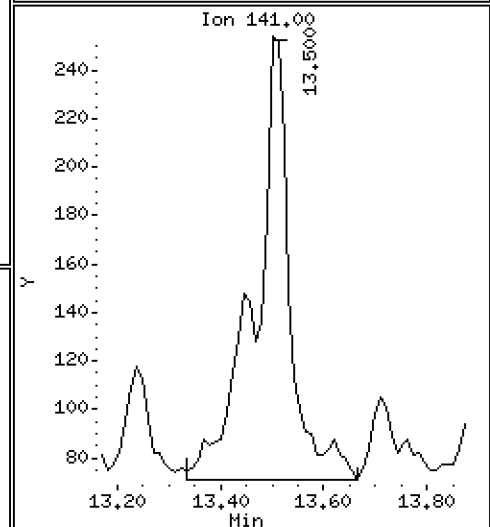
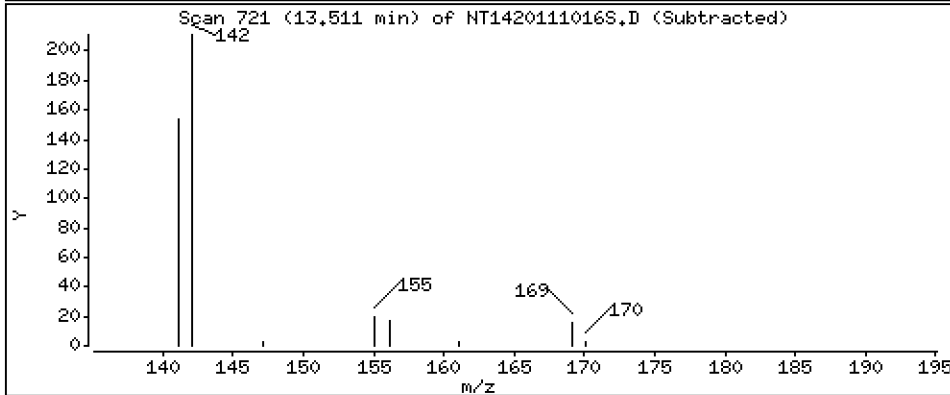
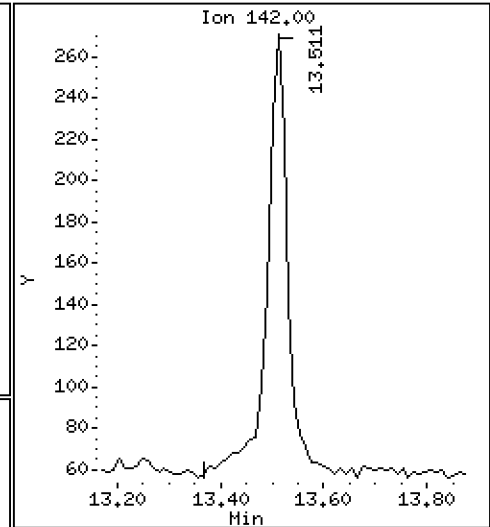
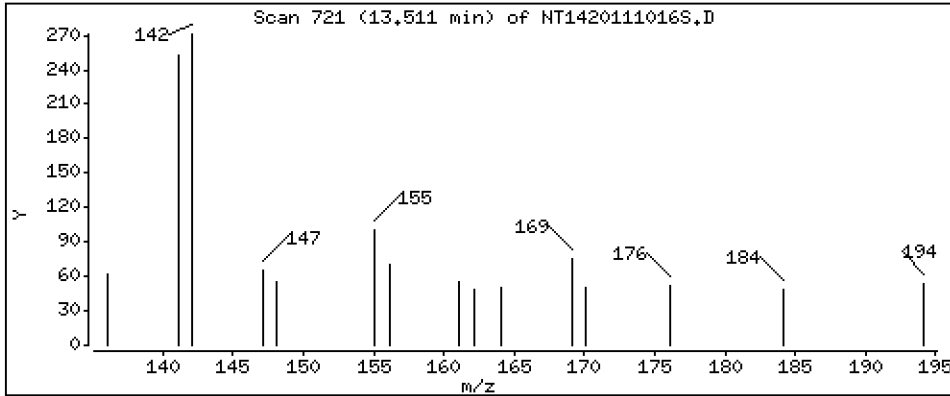
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

8 C1-Naphthalenes

Concentration: 0,01071 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\SIM.b\NT1420111016S.D
Lab Smp Id: 20J0385-01
Inj Date : 10-NOV-2020 23:40
Operator : VTS
Smp Info : 20J0385-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
Meth Date : 13-Nov-2020 08:42 yev
Cal Date : 17-OCT-2020 17:58
Als bottle: 14
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
	MASS		ON-COLUMN	FINAL		
	=====	=====	(ug/mL)	(ug/mL)		
3 C1-Decalin	152					
4 C2-Decalin	166					
5 C3-Decalin	180					
247 C4-Decalin	194					
8 C1-Naphthalenes	142		13.511	13.522	(0.726)	1123 0.01071 0.01071 (M)
9 C2-Naphthalenes	156					
10 C3-Naphthalenes	170					
11 C4-Naphthalenes	184					
13 C1-Benzothiophenes	148					
14 C2-Benzothiophenes	162					
15 C3-Benzothiophenes	176					
27 C1-Fluorenes	180					
28 C2-Fluorenes	194					
29 C3-Fluorenes	208					
31 C1-Dibenzothiophenes	198					
* 25 Fluorene-d10	176		18.600	18.611	(1.000)	256917 2.00000
32 C2-Dibenzothiophenes	212					
33 C3-Dibenzothiophenes	226					
34 C4-Dibenzothiophenes	240					
38 C1-Phenanthrenes/Anthracenes	192					
39 C2-Phenanthrenes/Anthracenes	206					
40 C3-Phenanthrenes/Anthracenes	220					
41 C4-Phenanthrenes/Anthracenes	234					
48 C1-Fluoranthenes/Pyrenes	216					
* 250 Anthracene-d10	188		22.041	22.052	(1.000)	281236 2.00000
49 C2-Fluoranthenes/Pyrenes	230					
50 C3-Fluoranthenes/Pyrenes	244					
249 C4-Fluoranthenes/Pyrenes	258					
52 C1-Naphthobenzothiophenes	248					
53 C2-Naphthobenzothiophenes	262					
54 C3-Naphthobenzothiophenes	276					
248 C4-Naphthobenzothiophenes	290					
58 C1-Benzo(a)anthracenes/Chrysen	242					

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	32.916	(1.000)	386123	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.		

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: NT1420111016S.D
Lab Smp Id: 20J0385-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
Misc Info:

Calibration Date: 10-NOV-2020
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

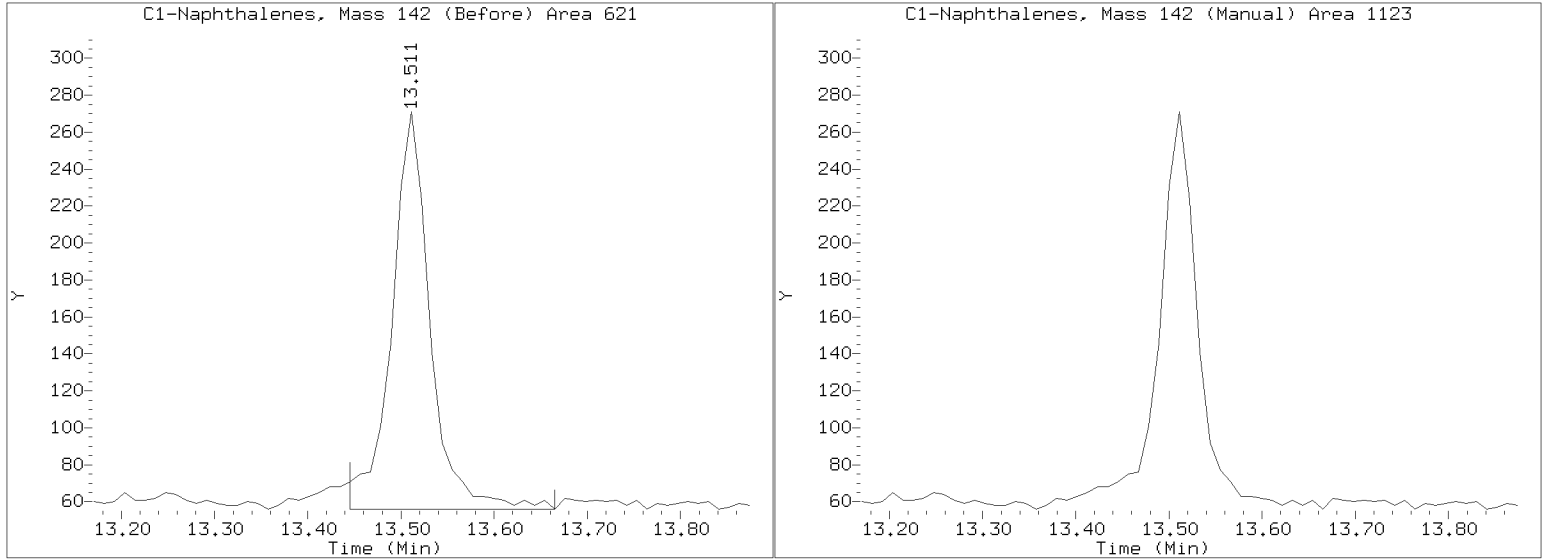
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	304839	152420	609678	256917	-15.72
250 Anthracene-d10	339521	169761	679042	281236	-17.17
251 Benzo(e)pyrene-d1	505121	252561	1010242	386123	-23.56

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.61	18.11	19.11	18.60	-0.06
250 Anthracene-d10	22.05	21.55	22.55	22.04	-0.05
251 Benzo(e)pyrene-d1	32.92	32.42	33.42	32.90	-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.

Quant Ion Manual Peak Adjustment Report

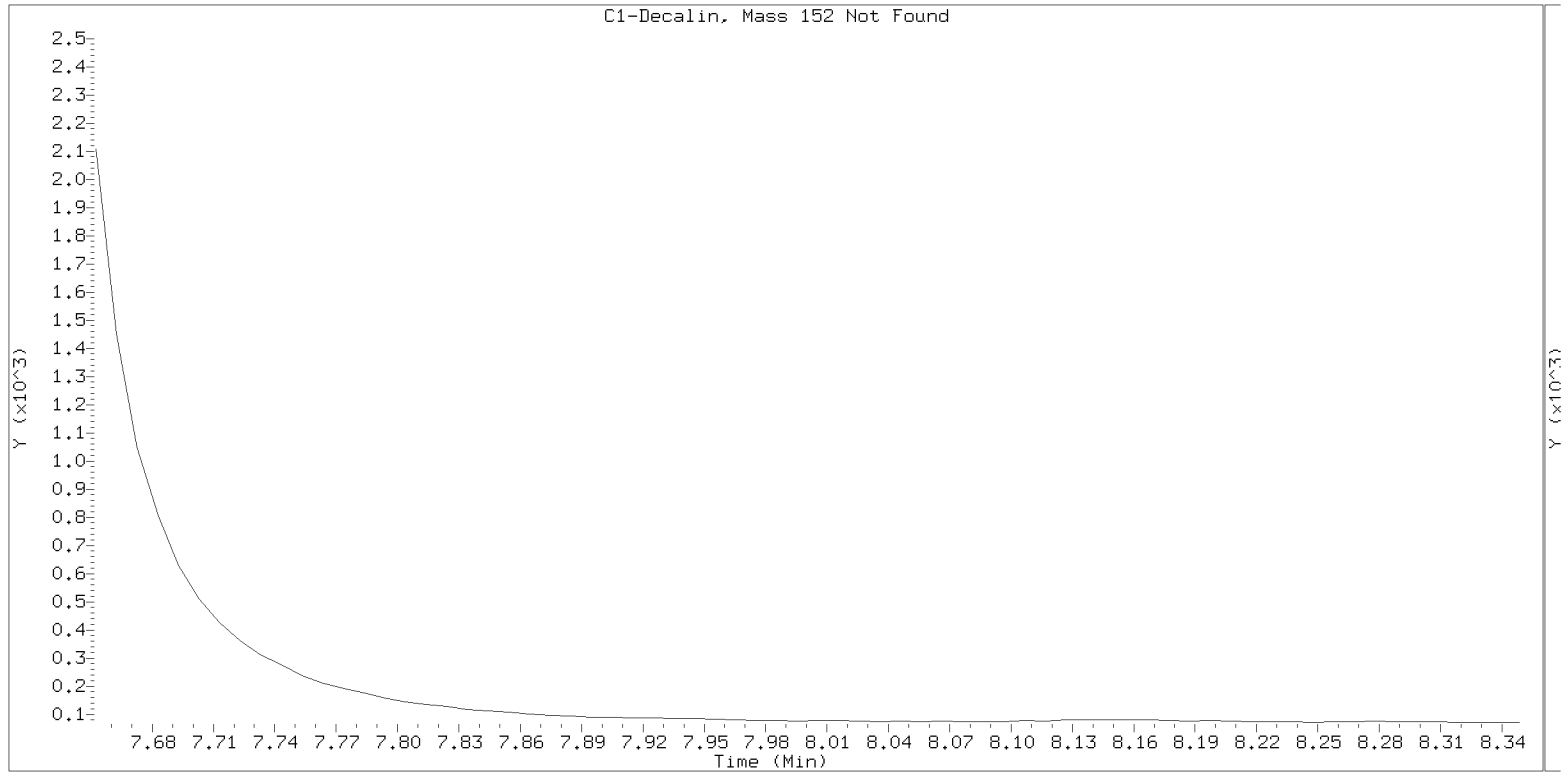
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Injection Date: 10-NOV-2020 23:40
Lab ID:20J0385-01 Client ID:
Report Date: 11/13/2020 08:44



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

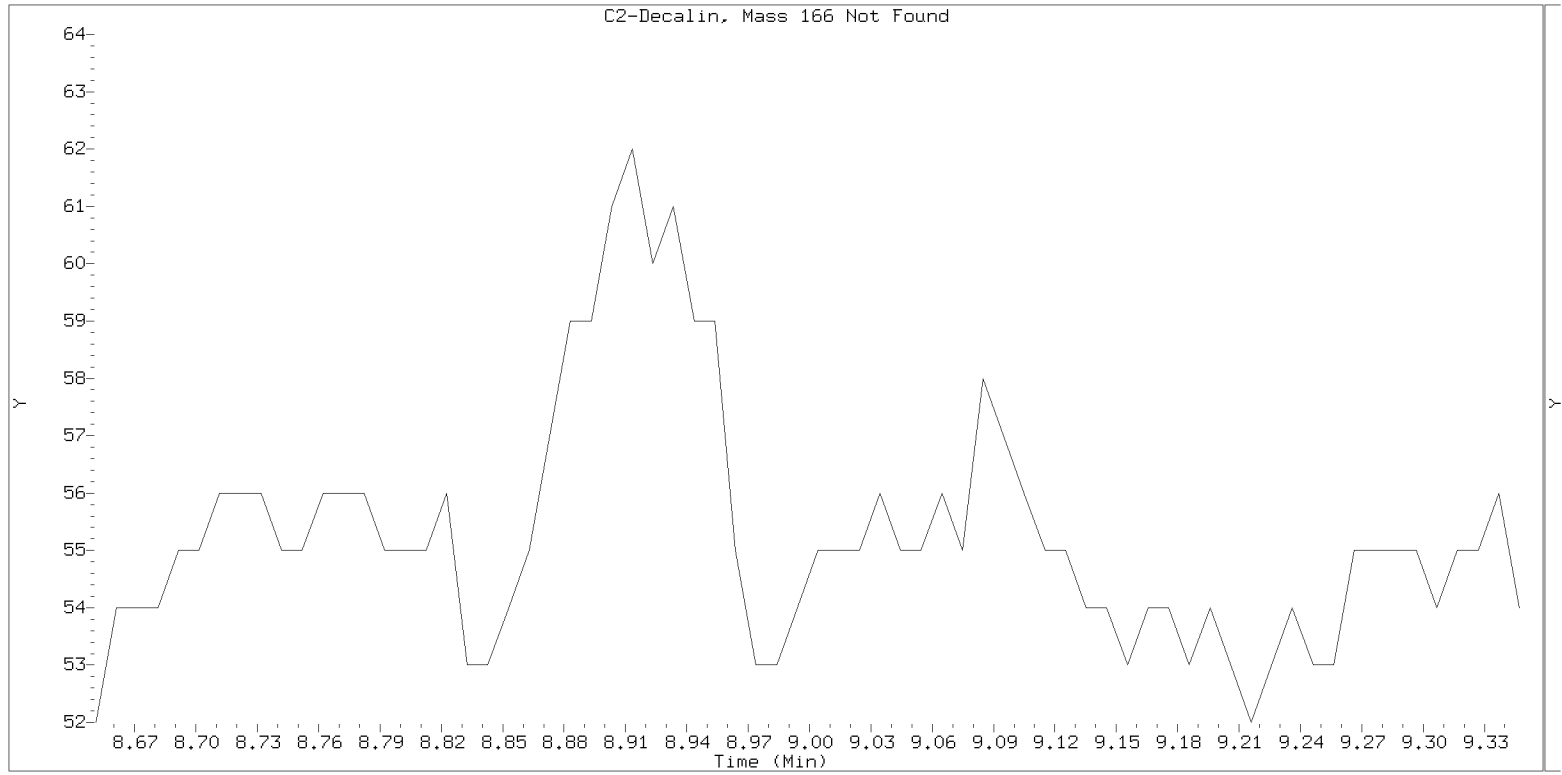
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

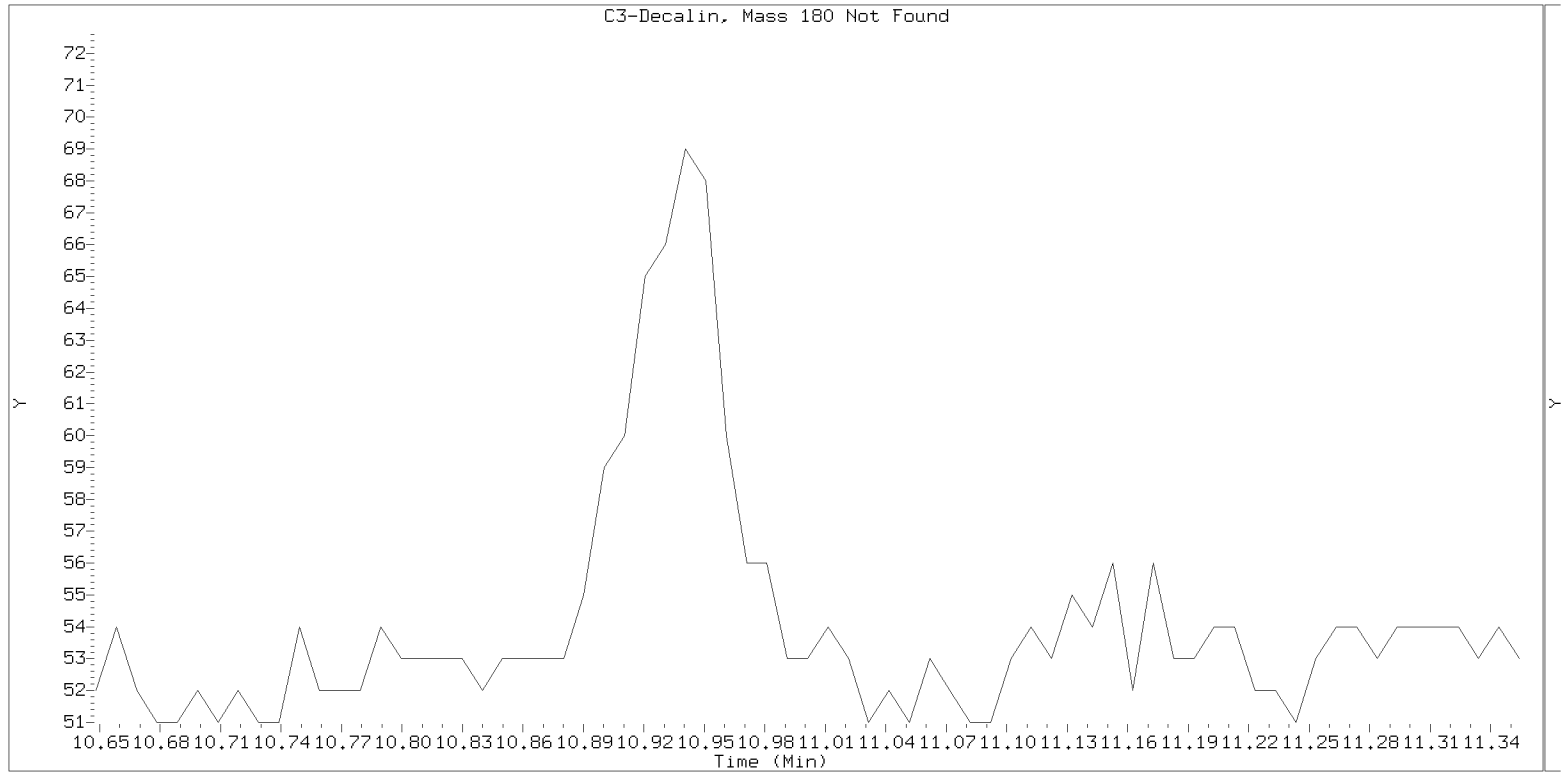
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

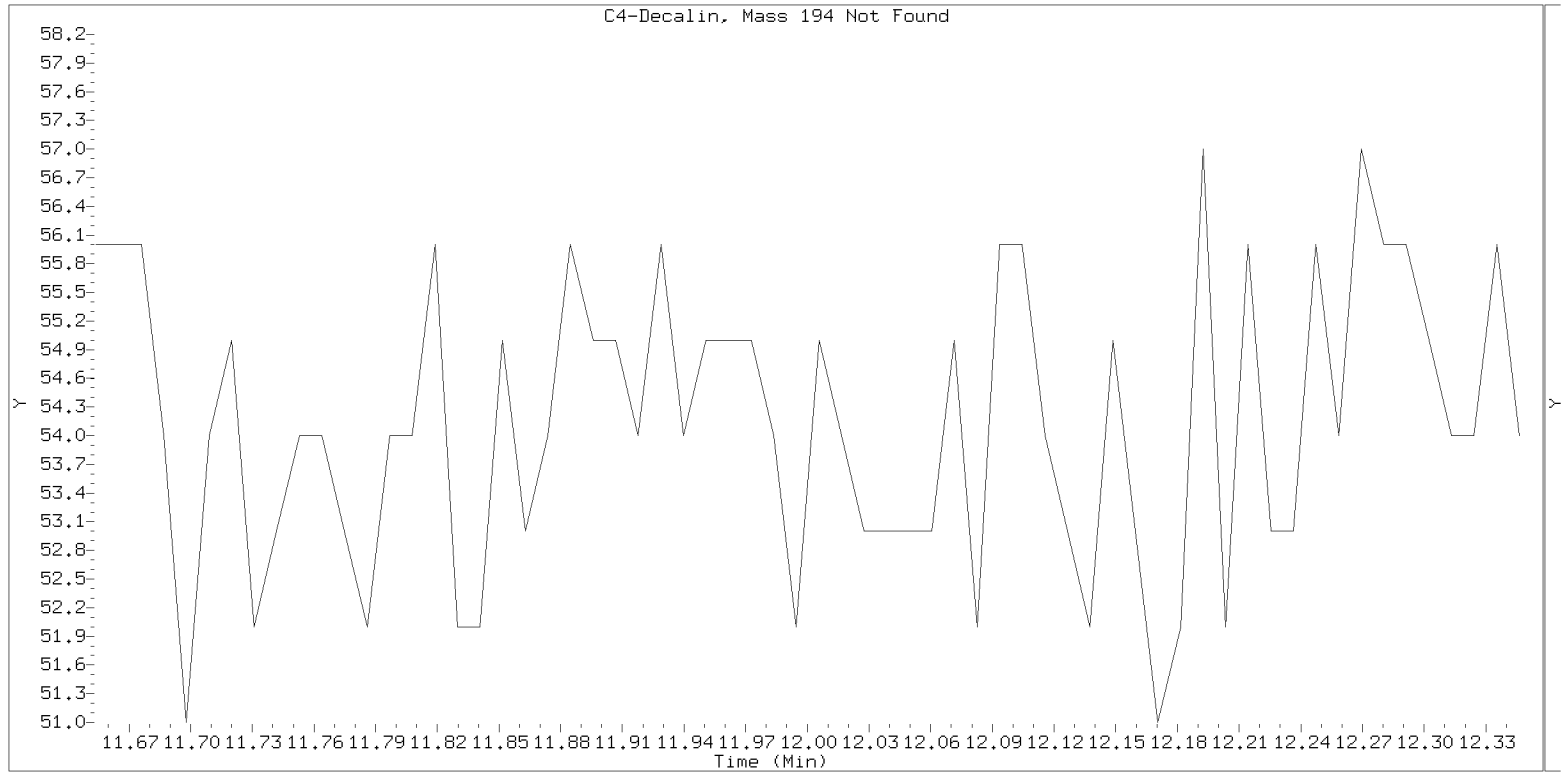
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

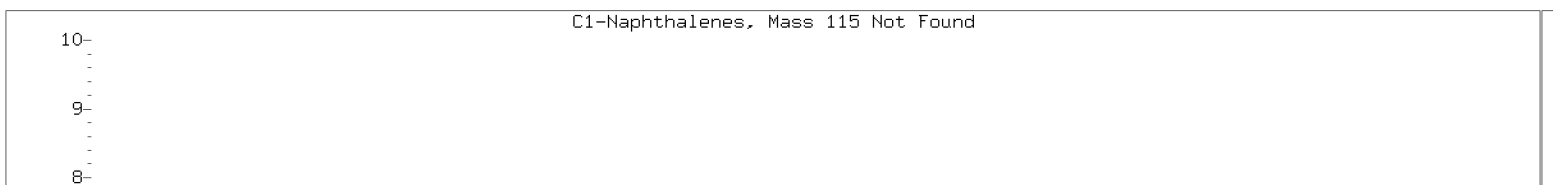
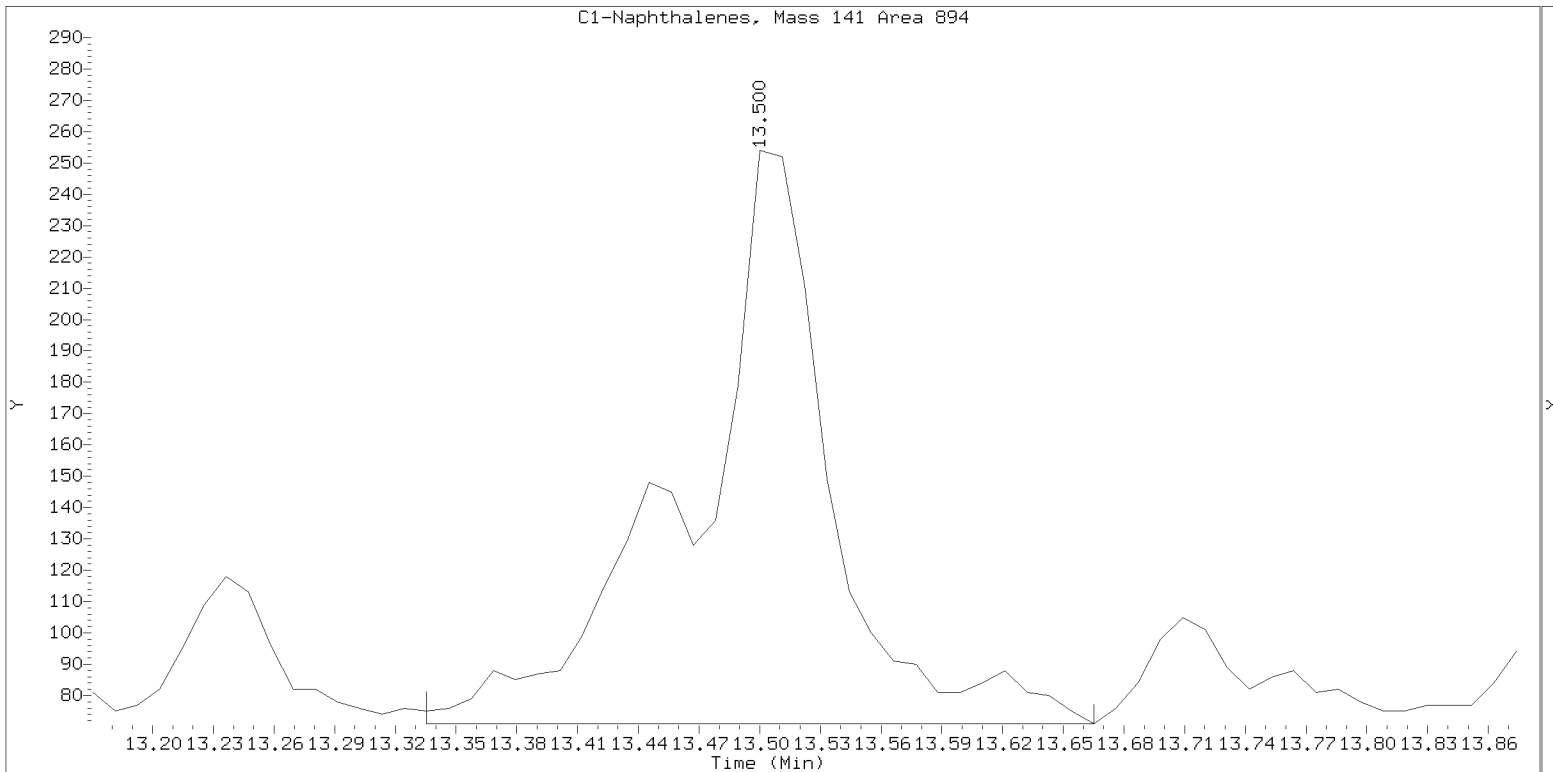
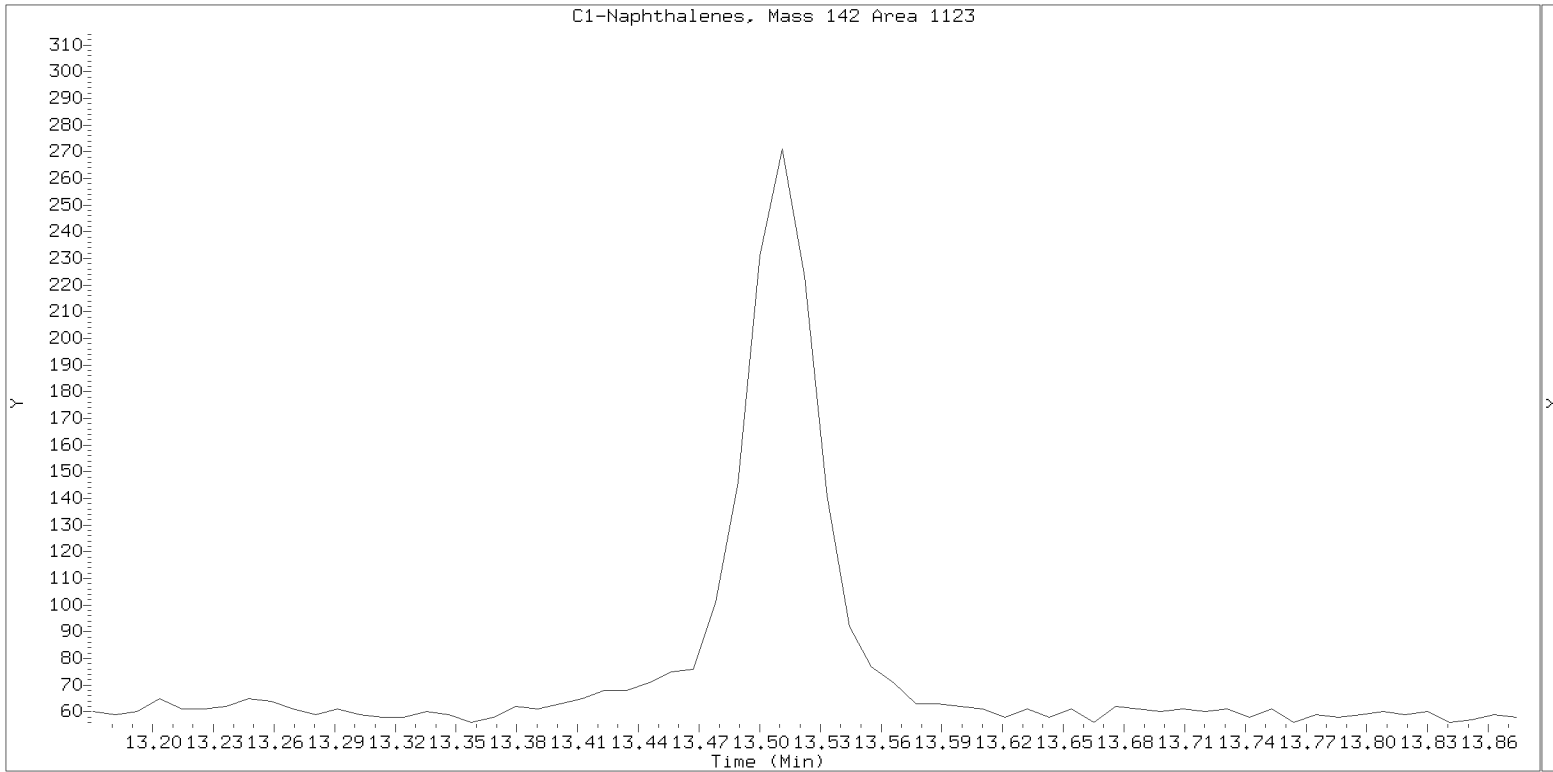
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

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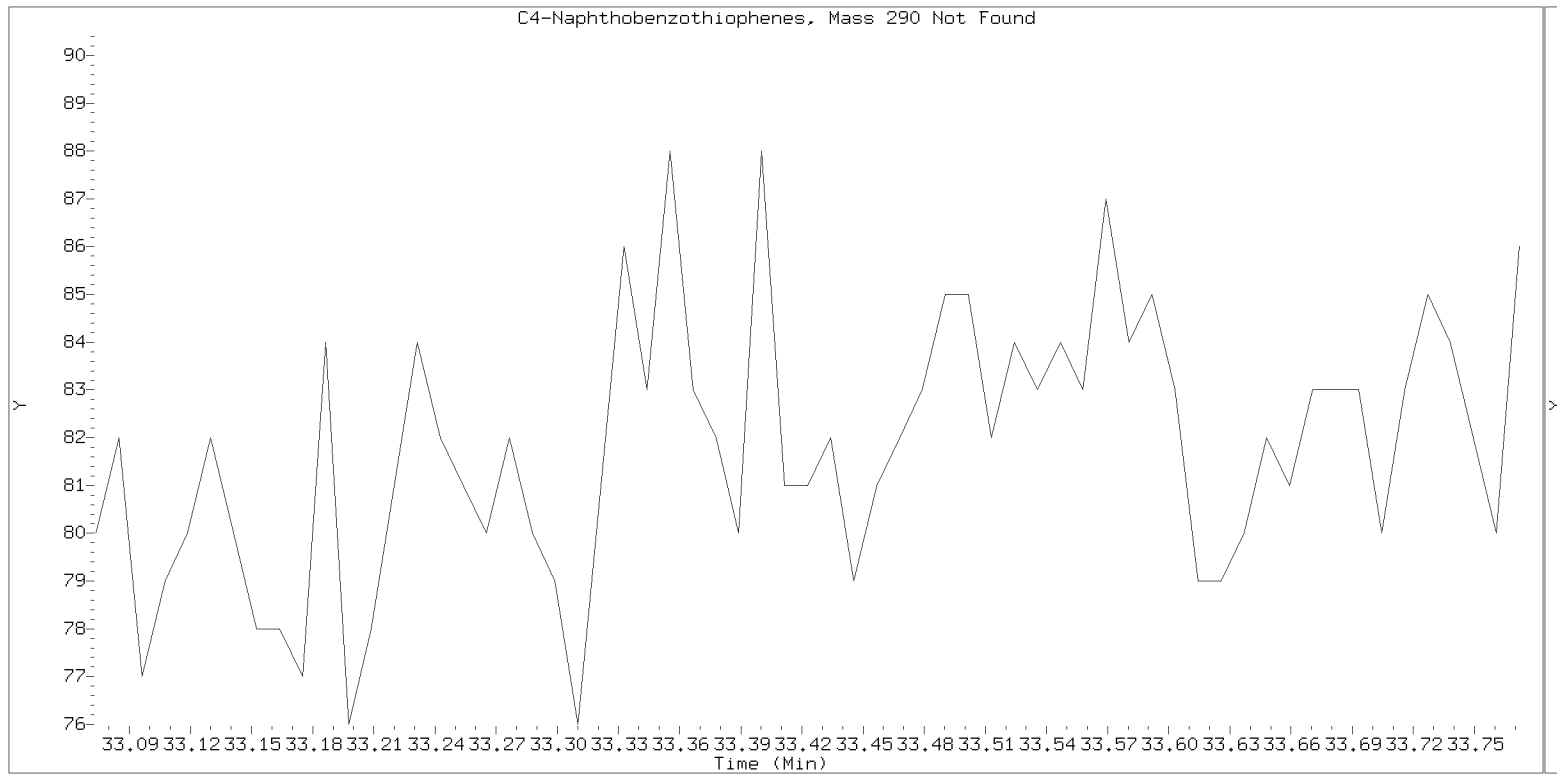
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

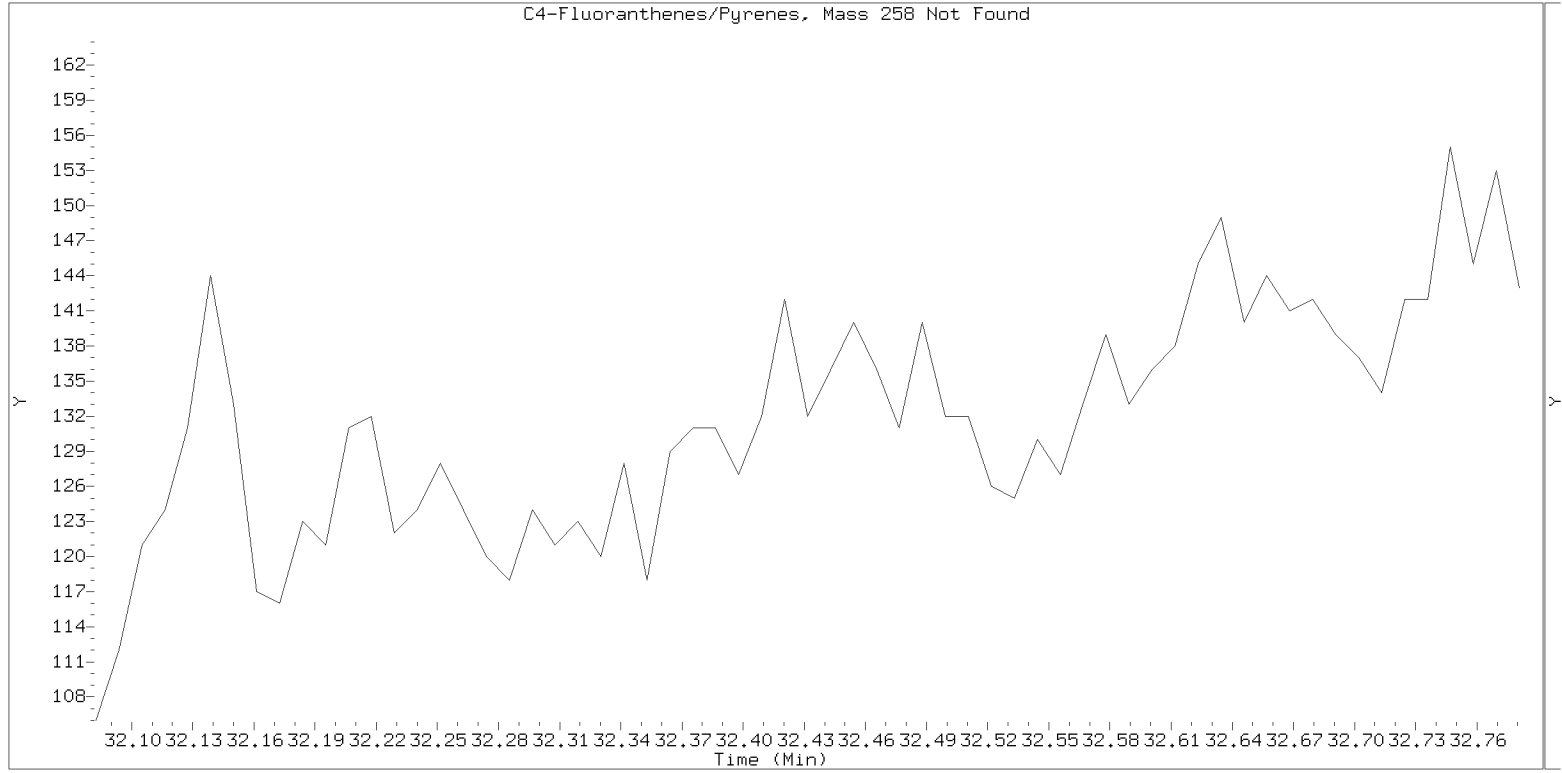
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

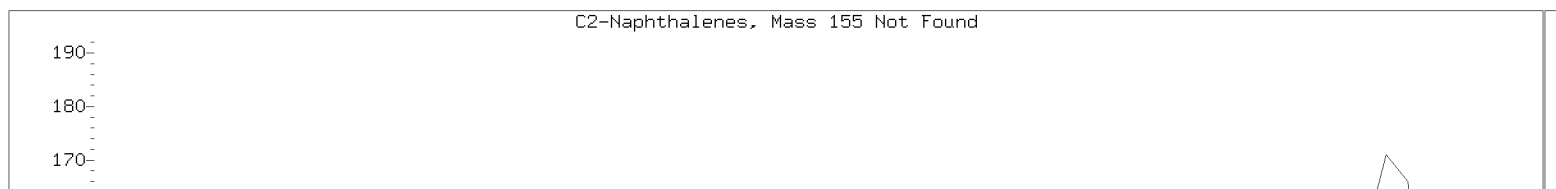
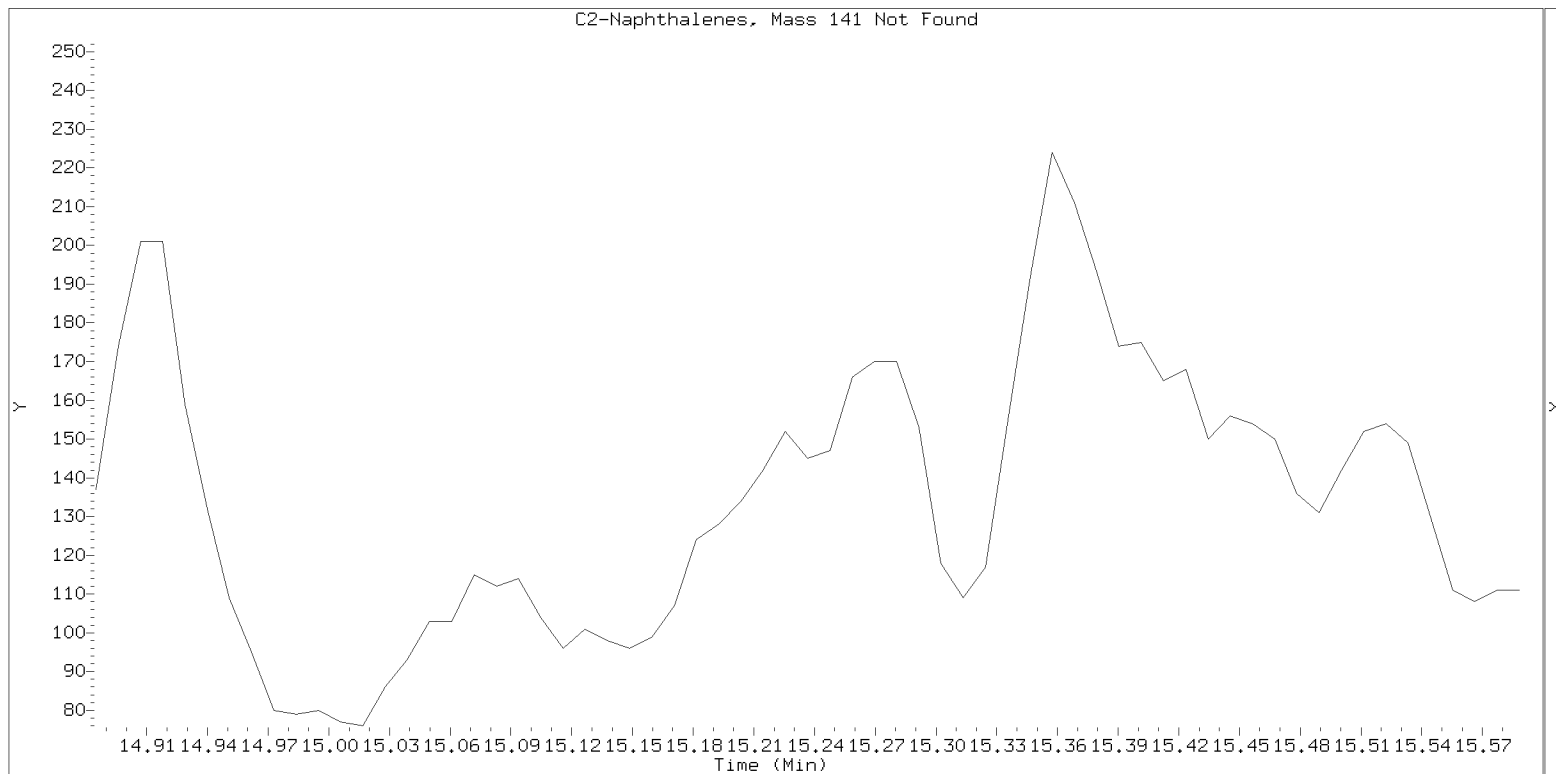
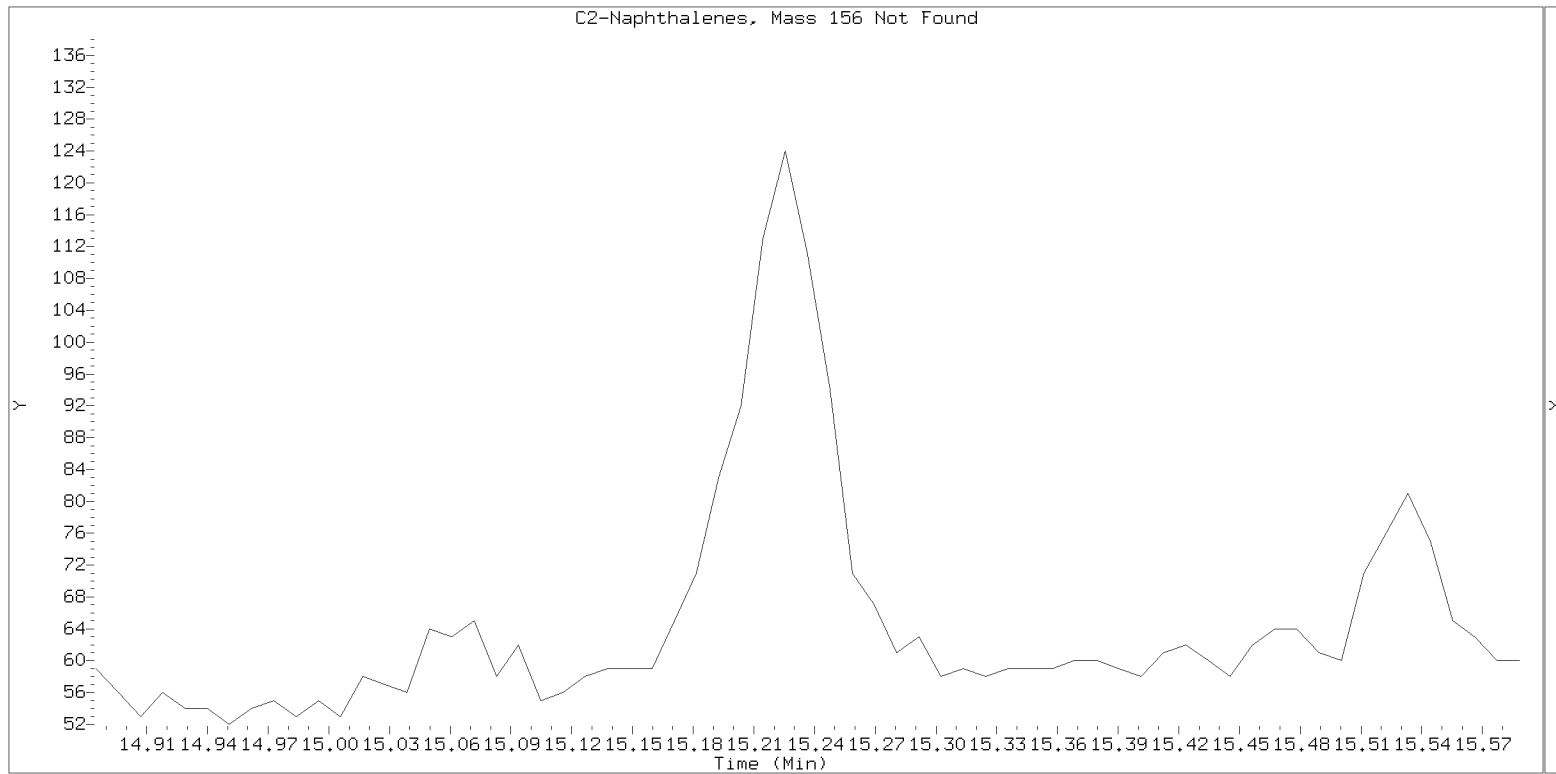
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

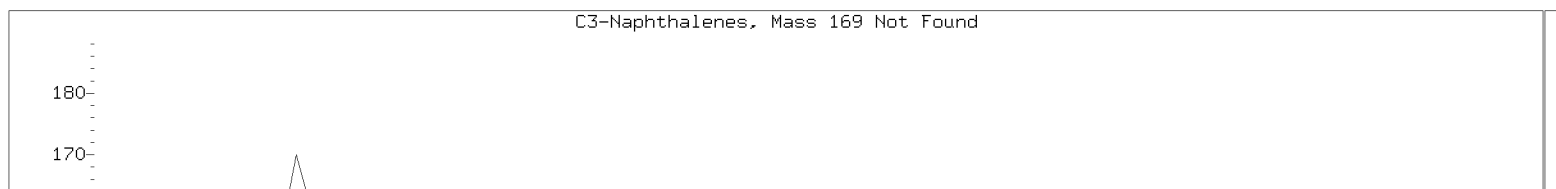
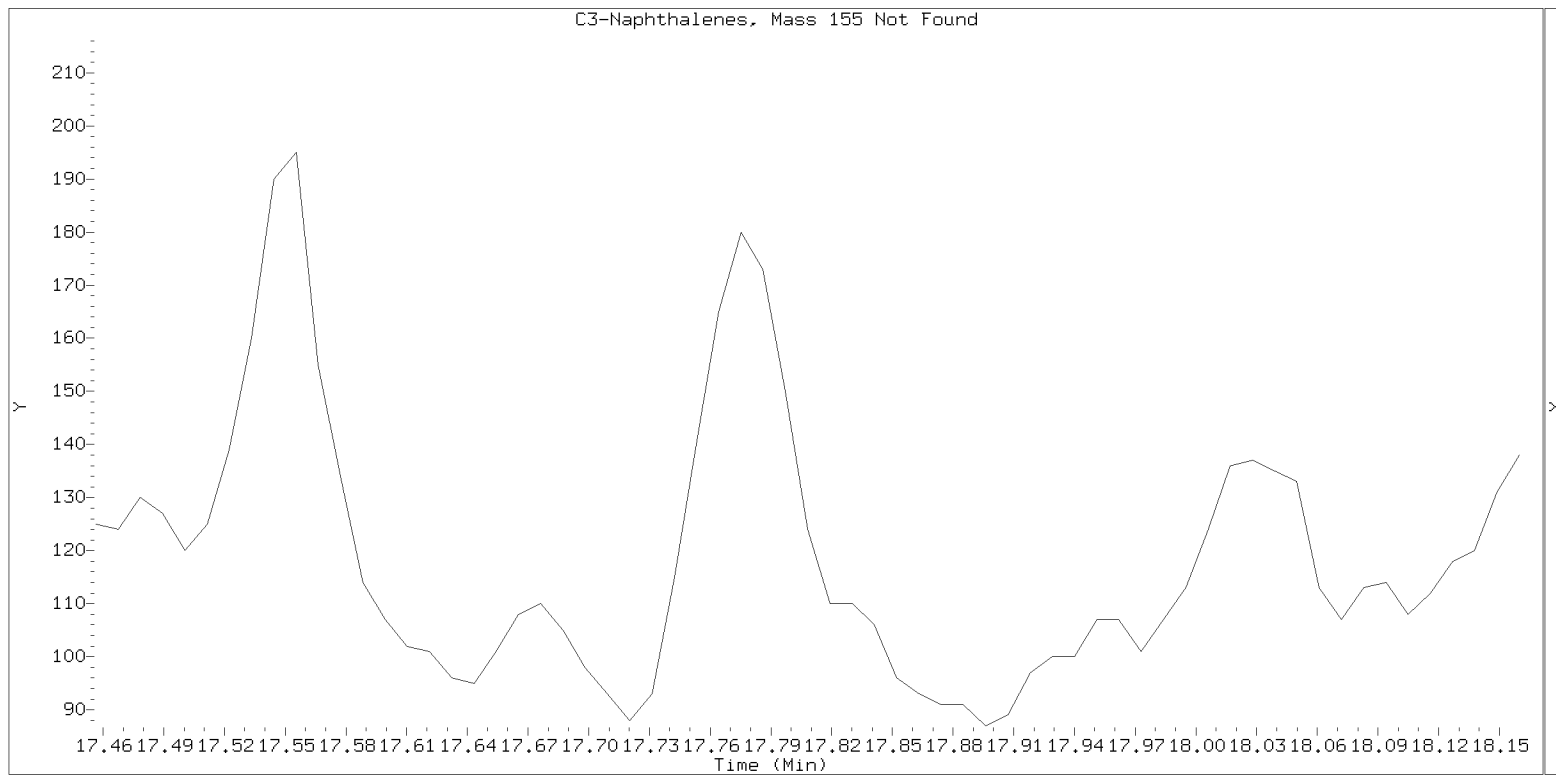
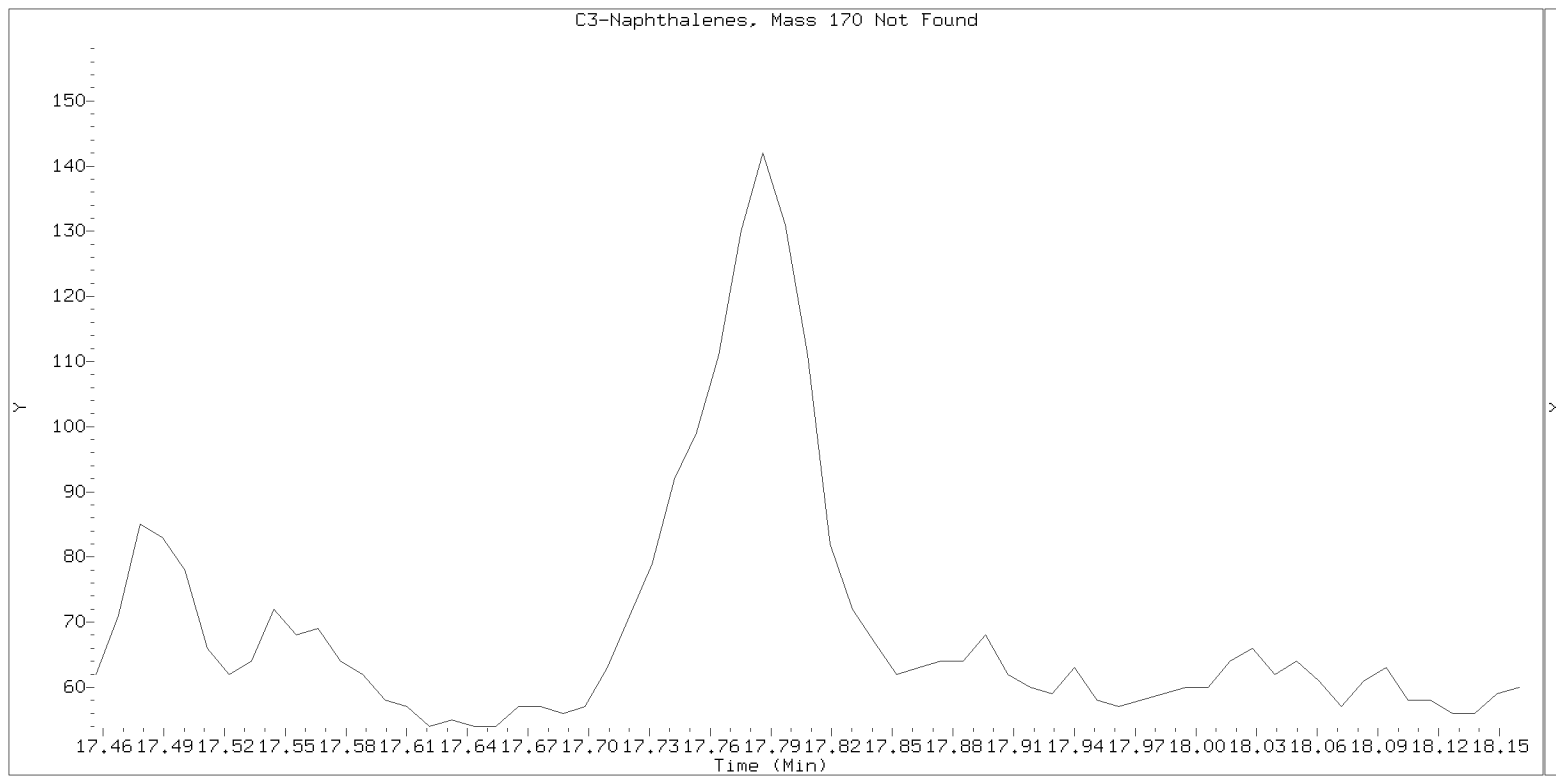
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

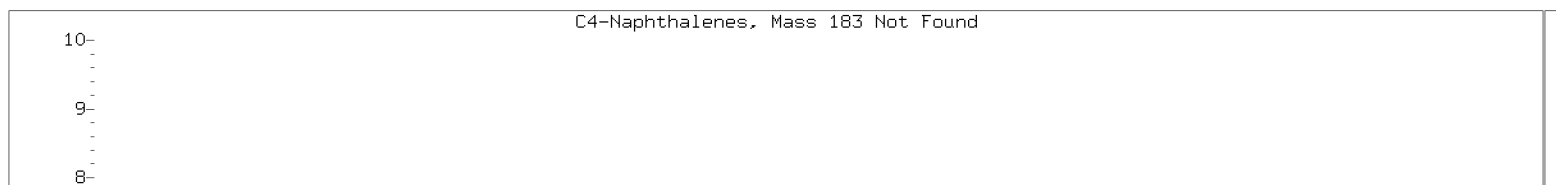
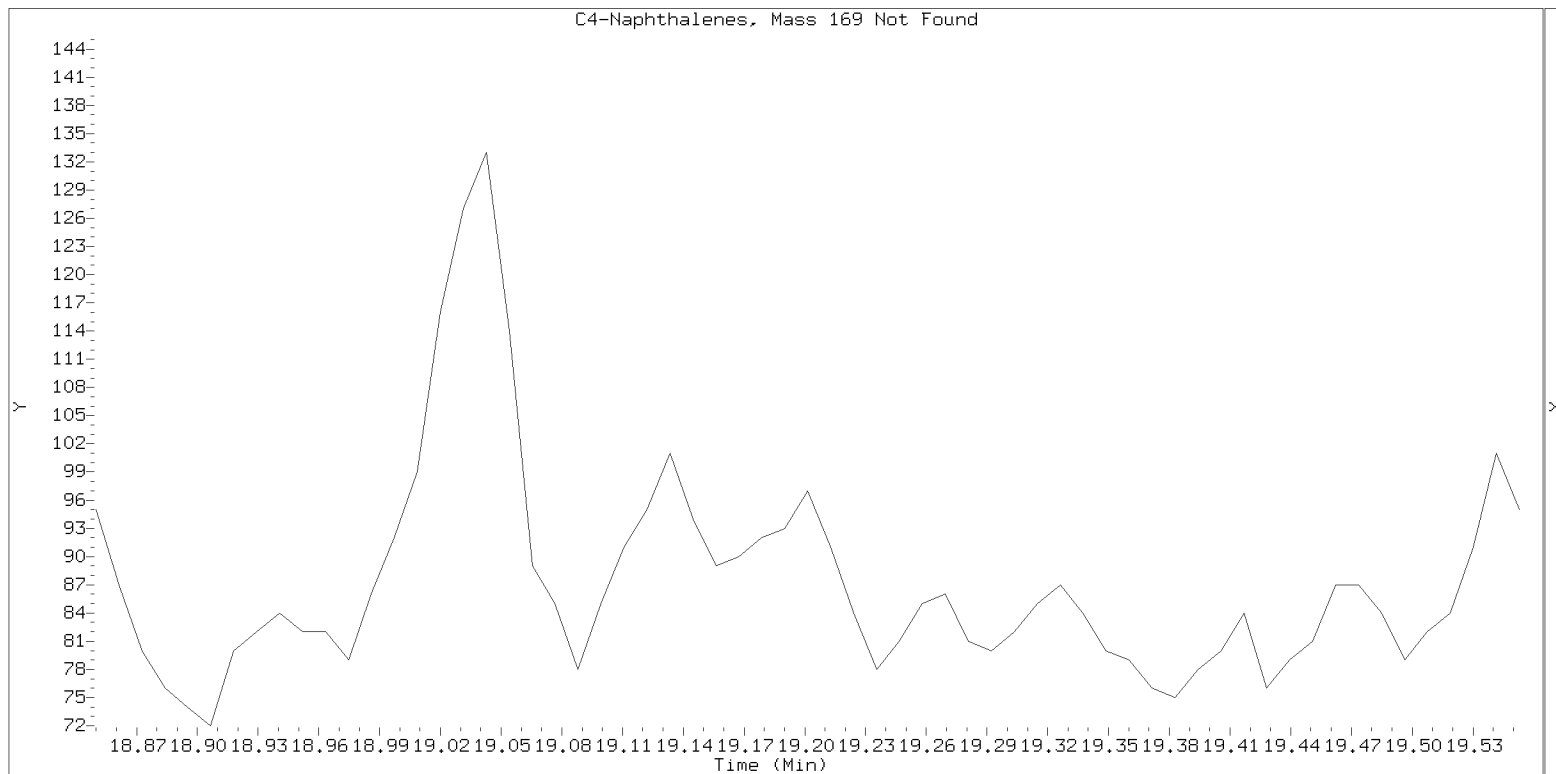
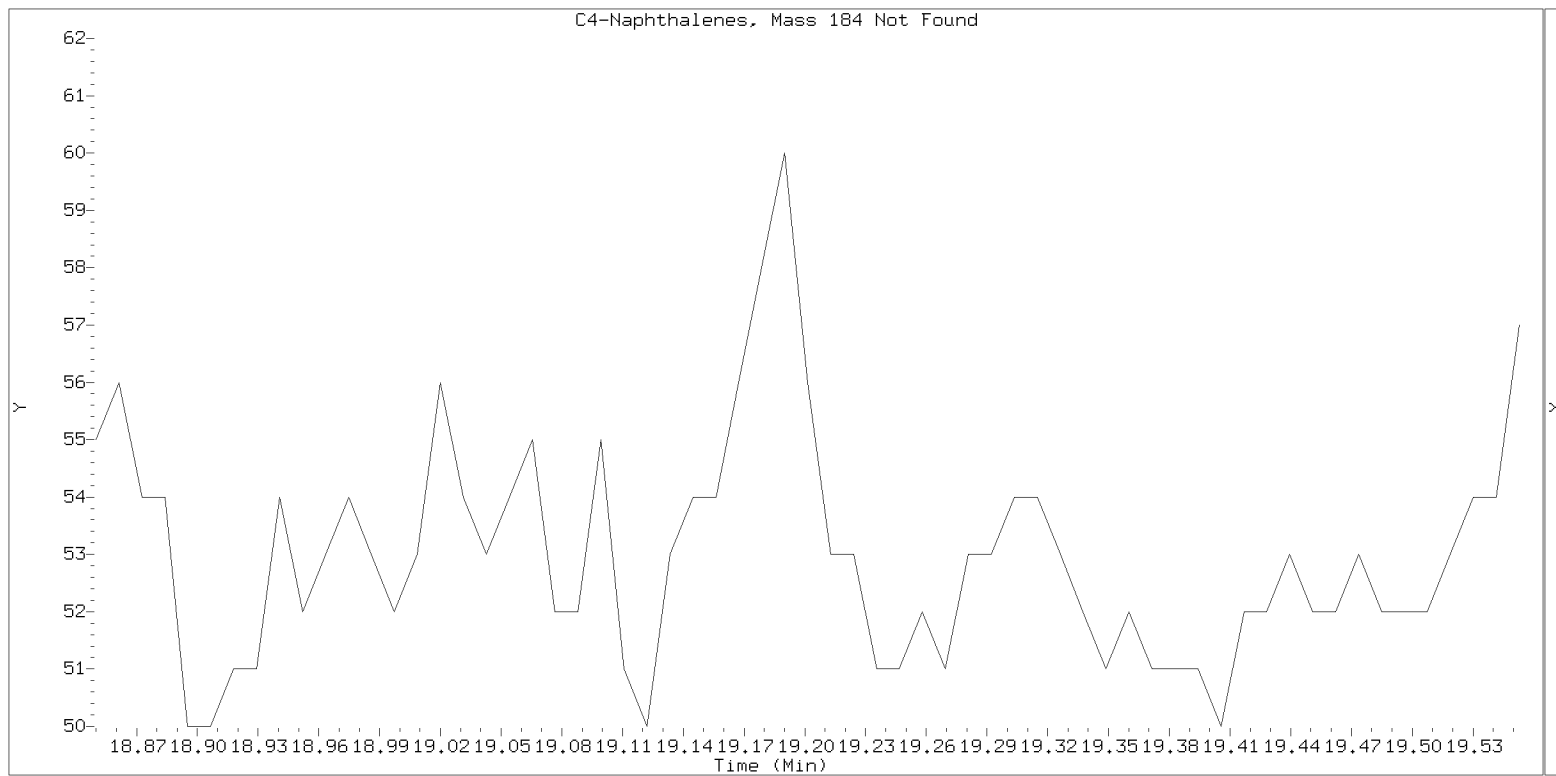
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

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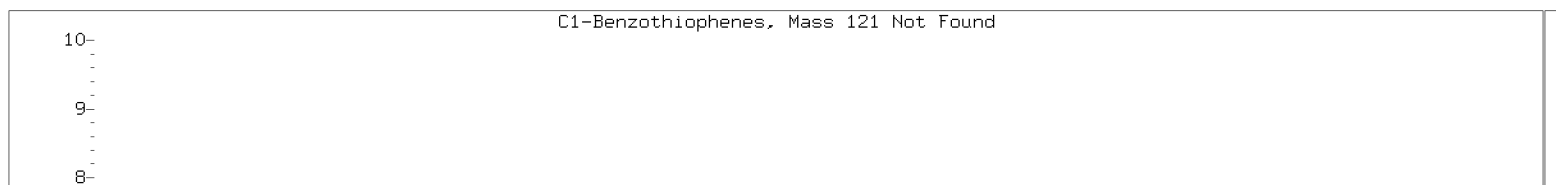
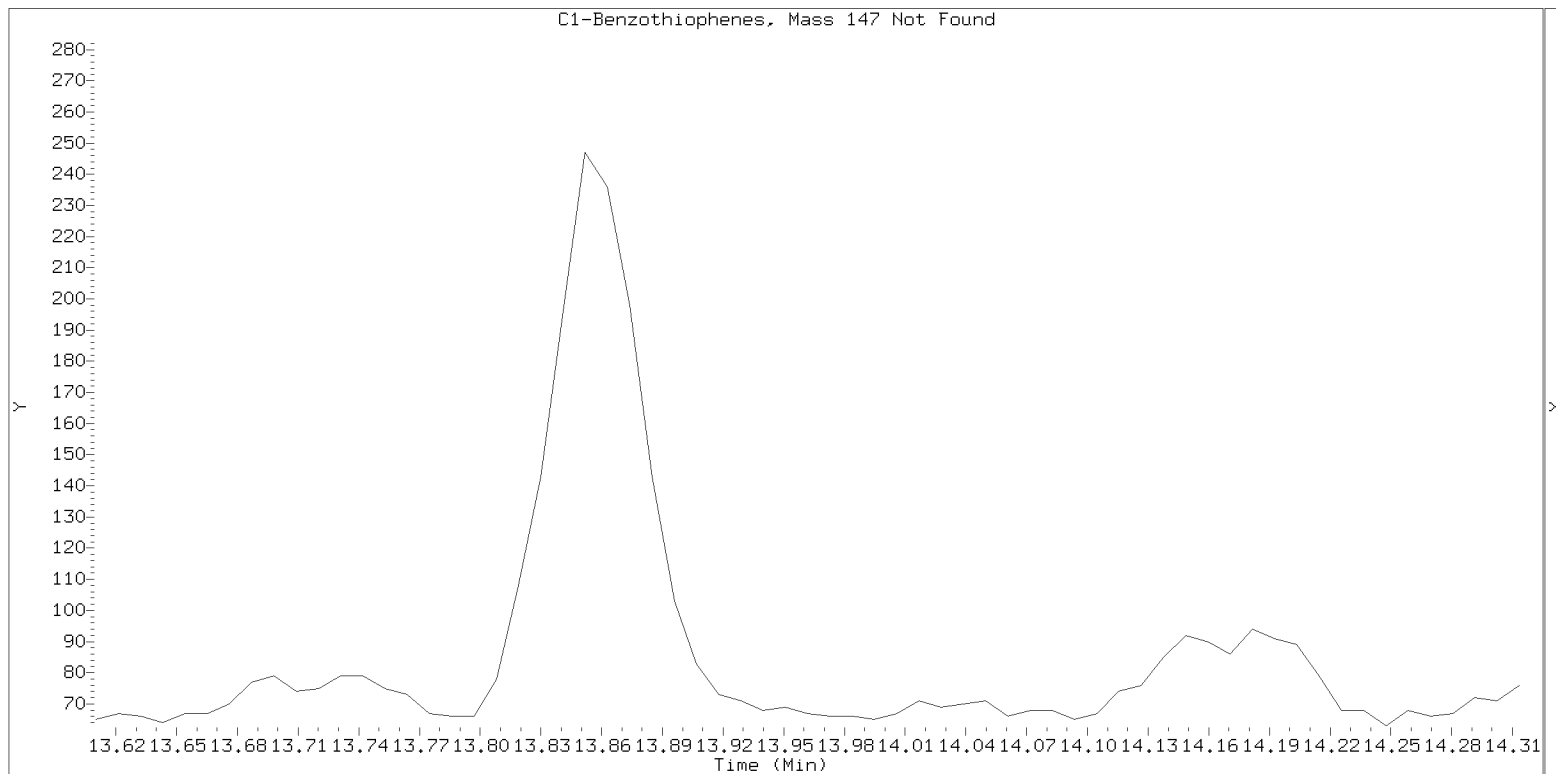
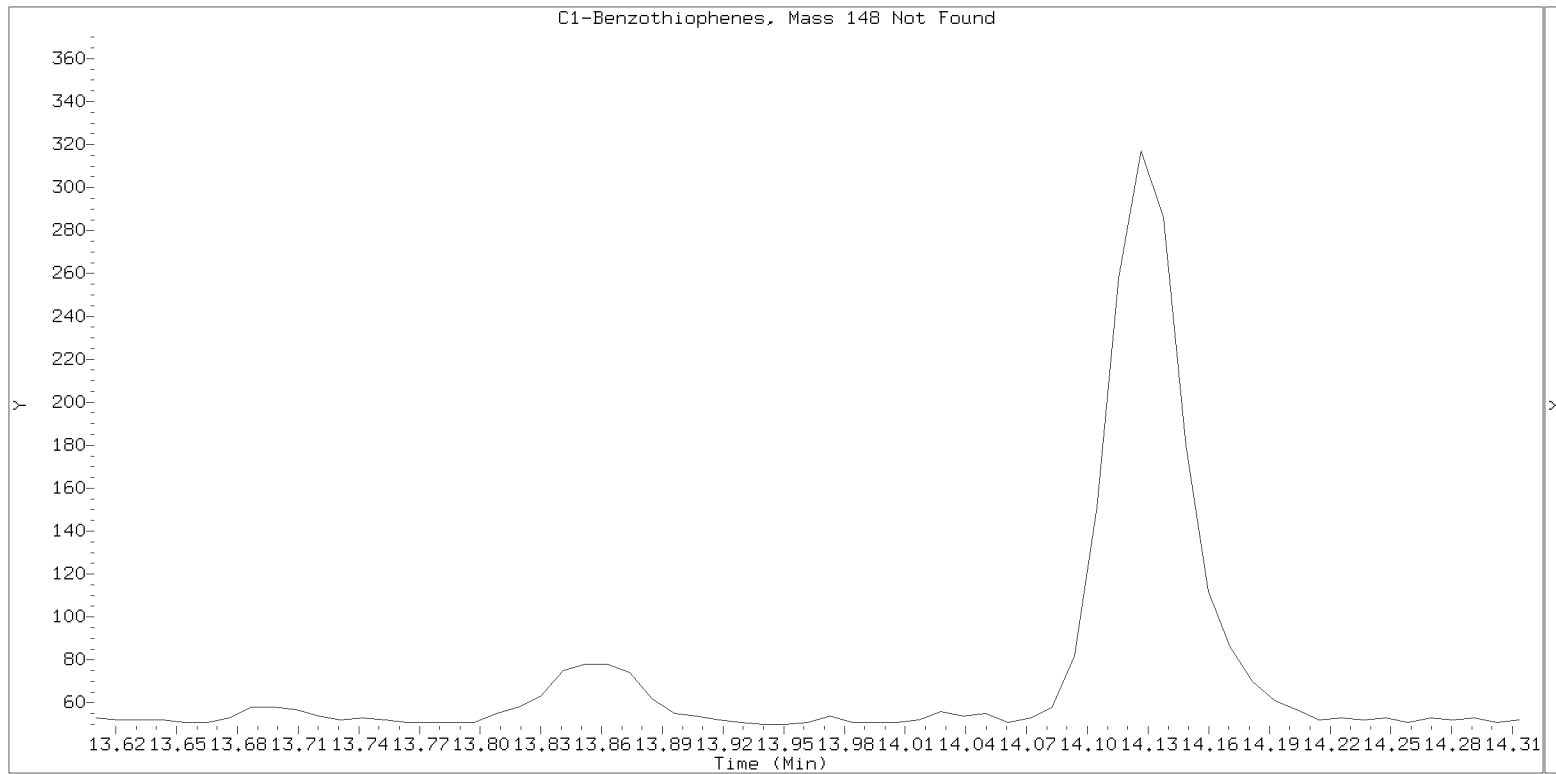
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

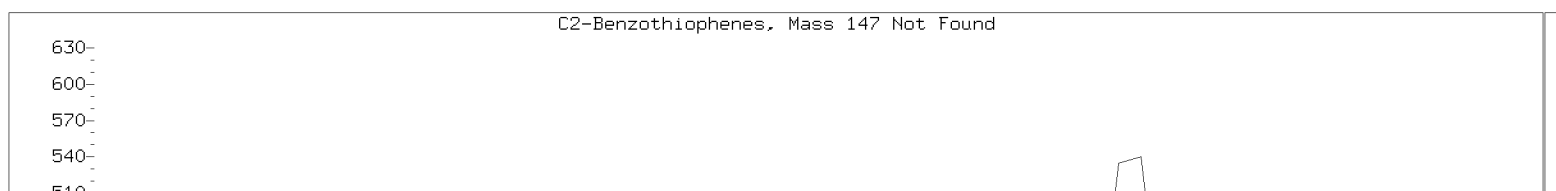
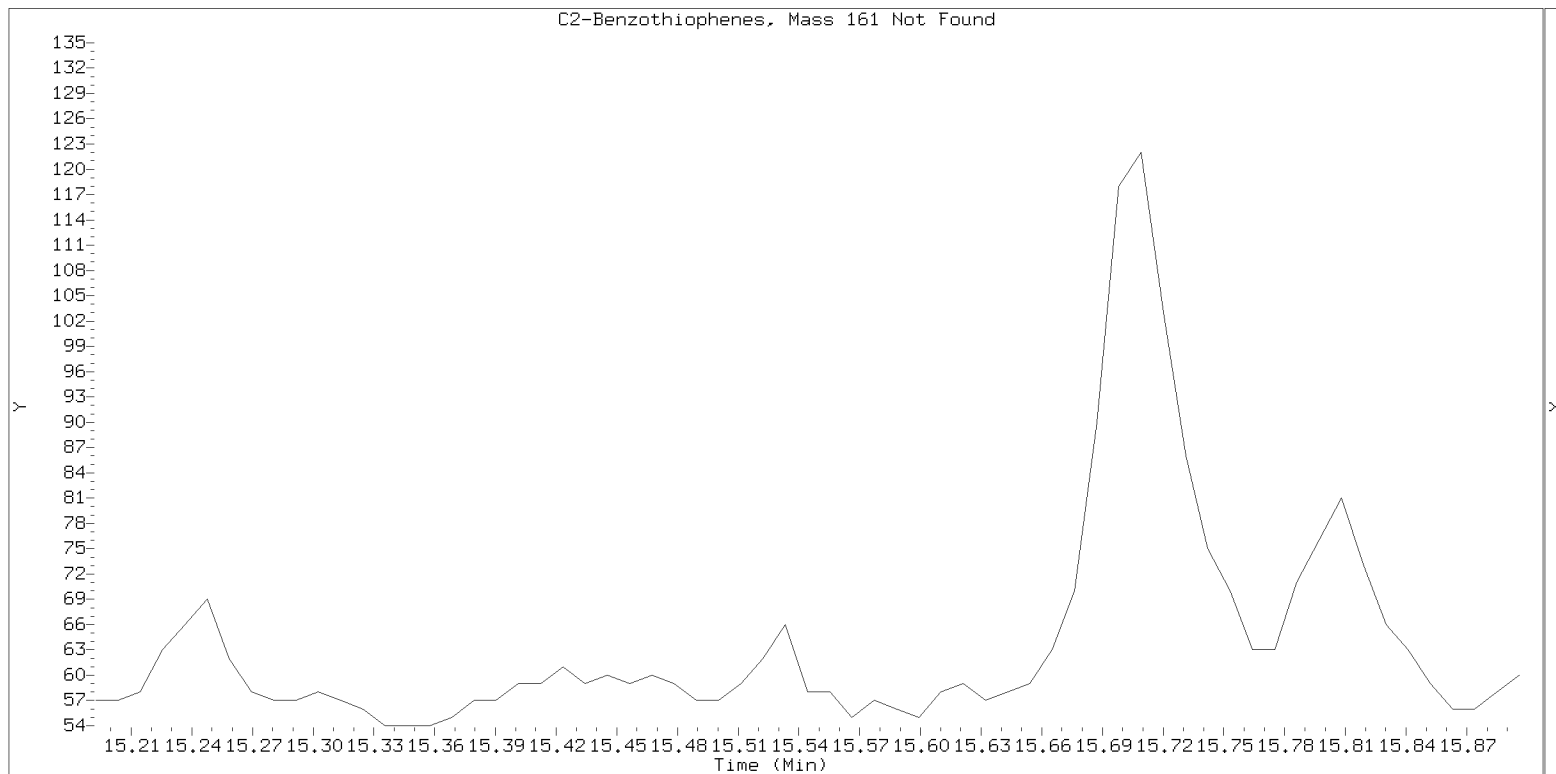
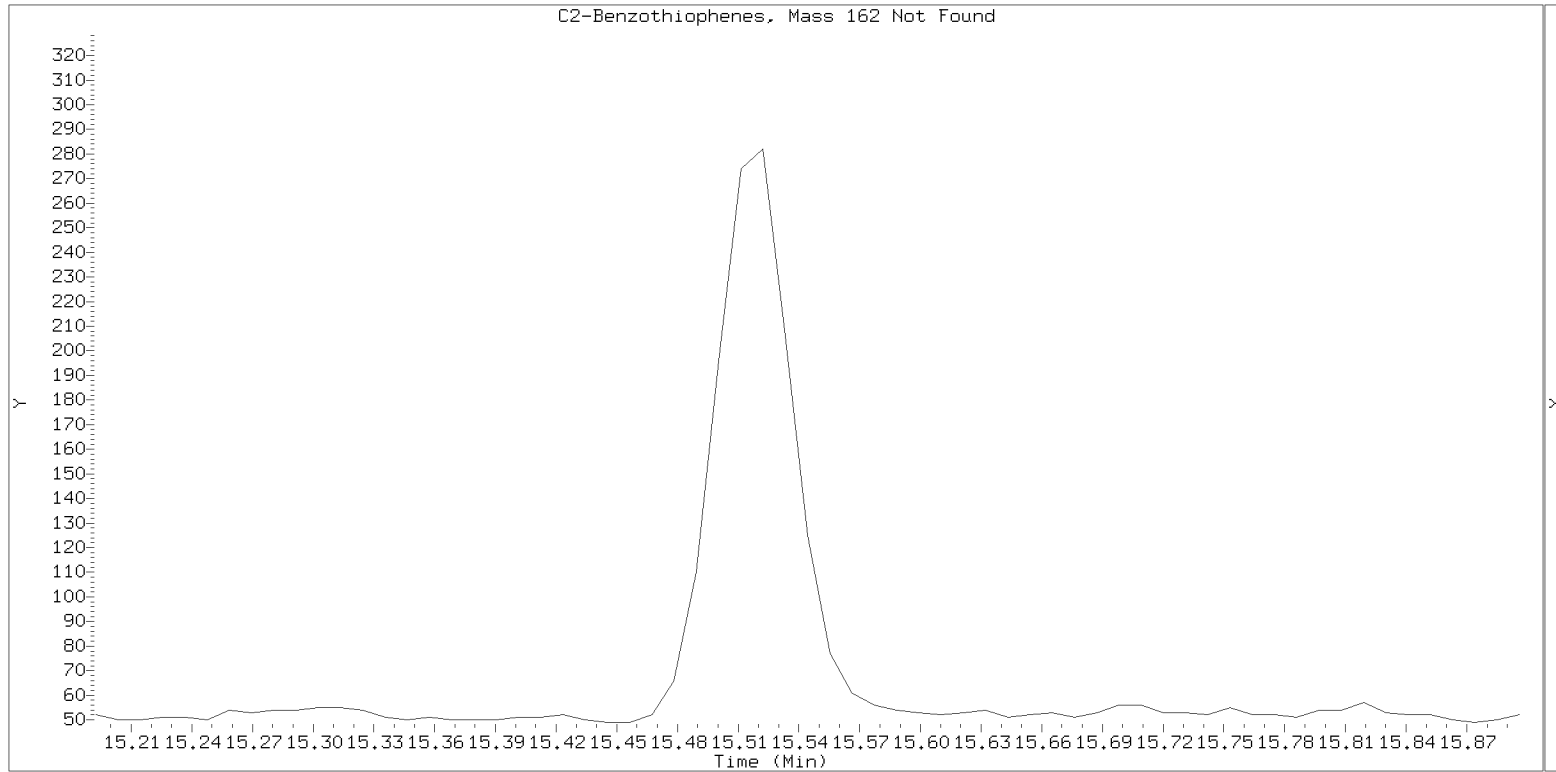
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

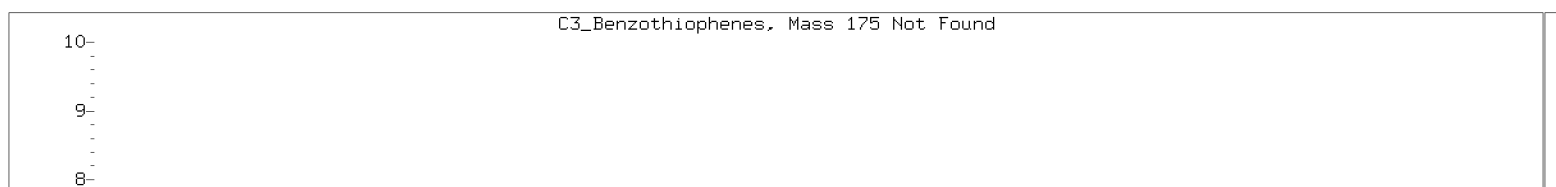
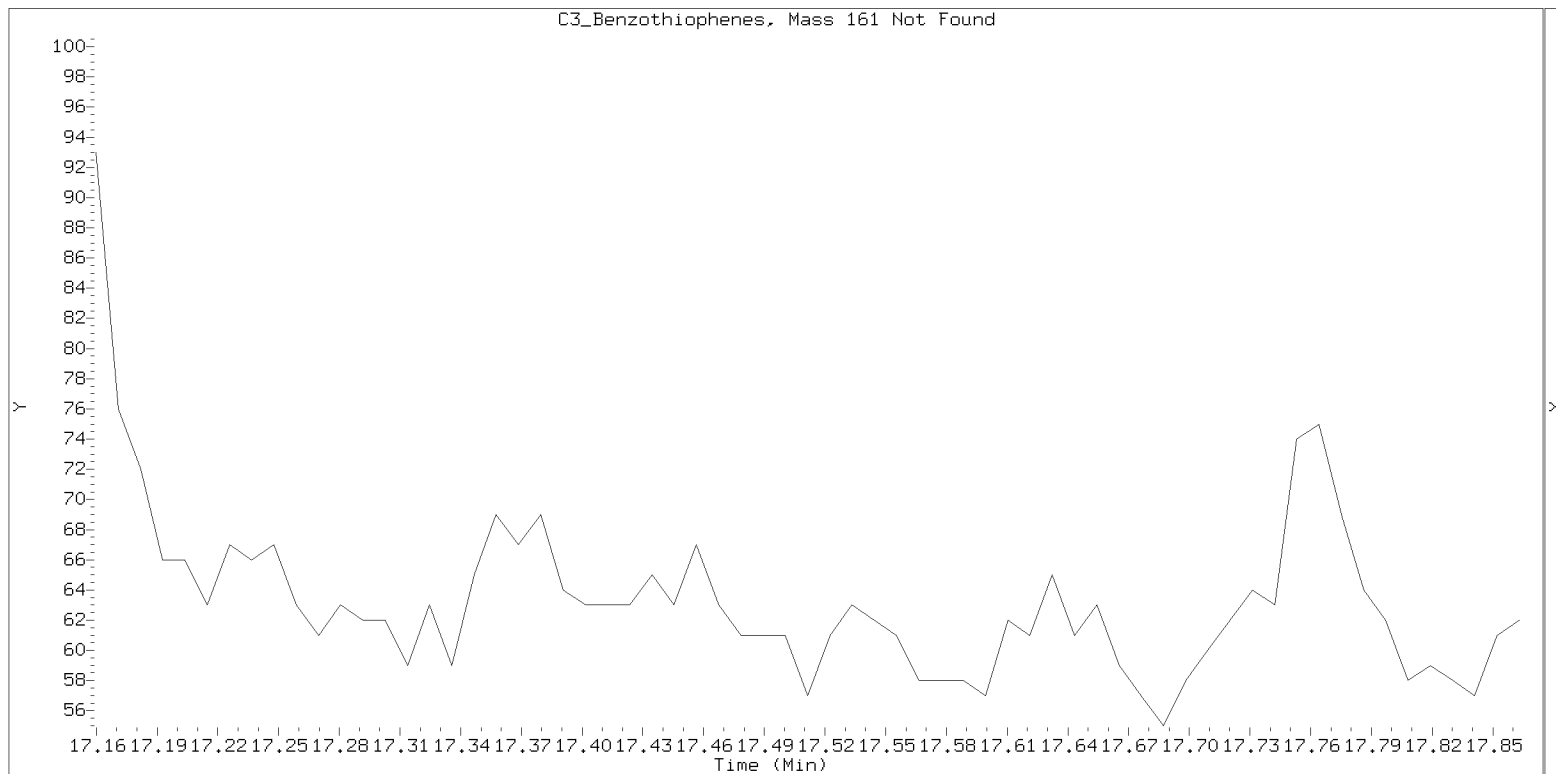
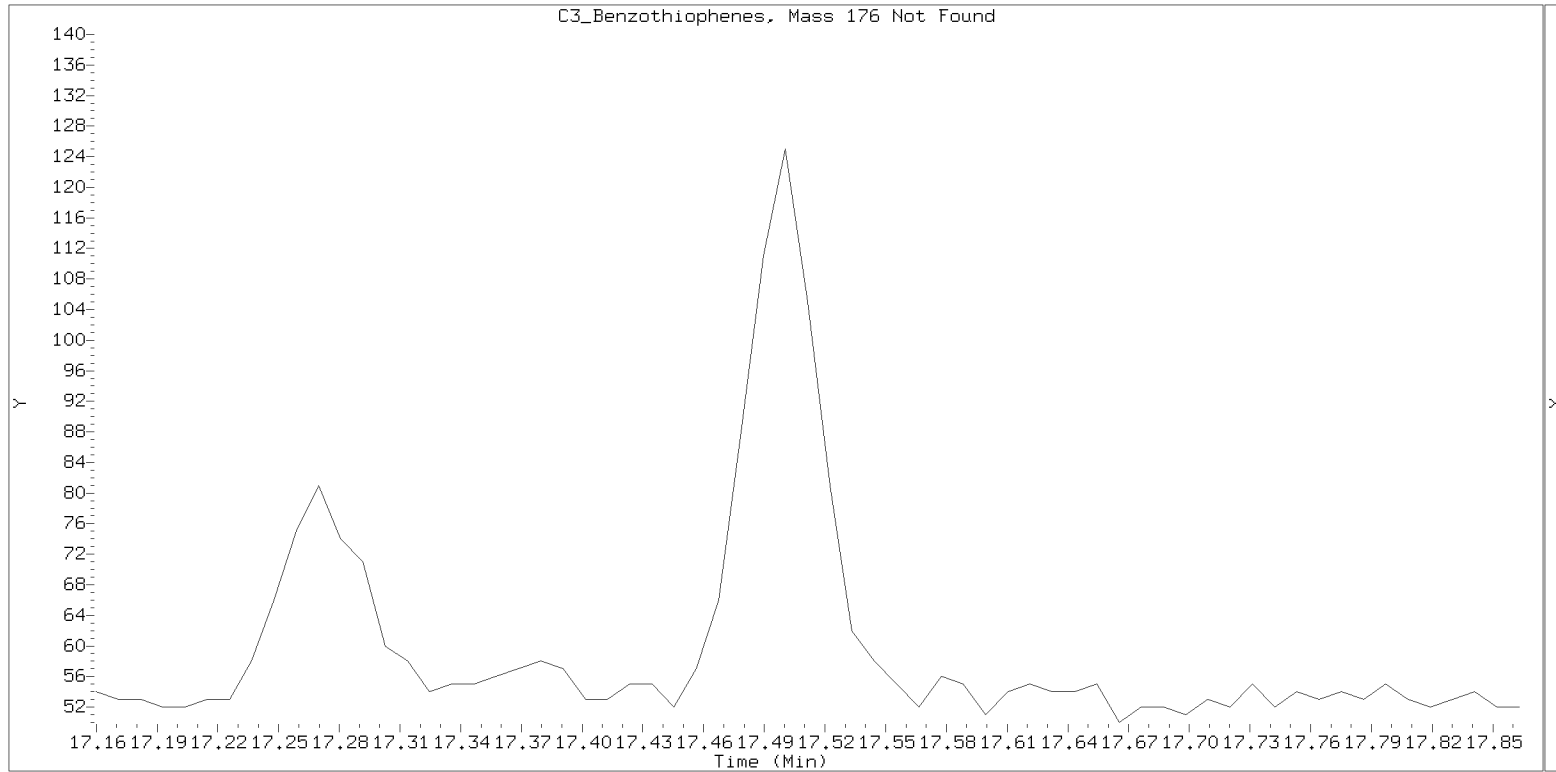
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Lab ID: 20J0385-01

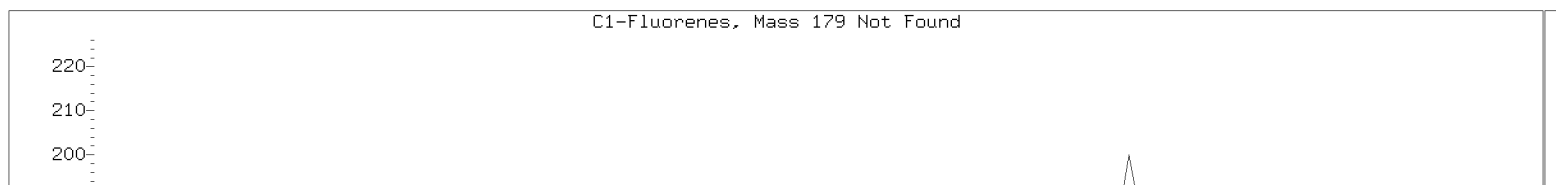
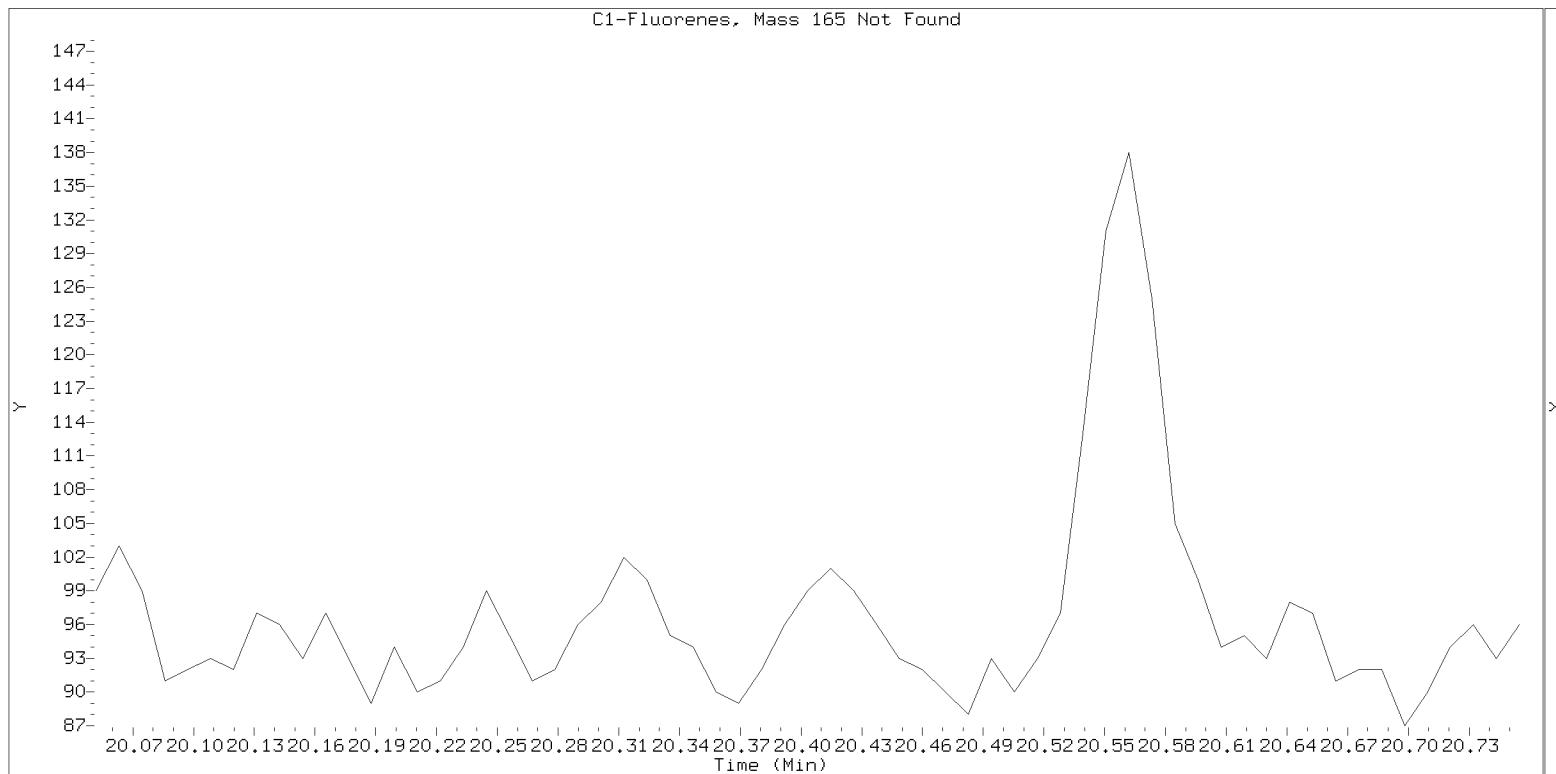
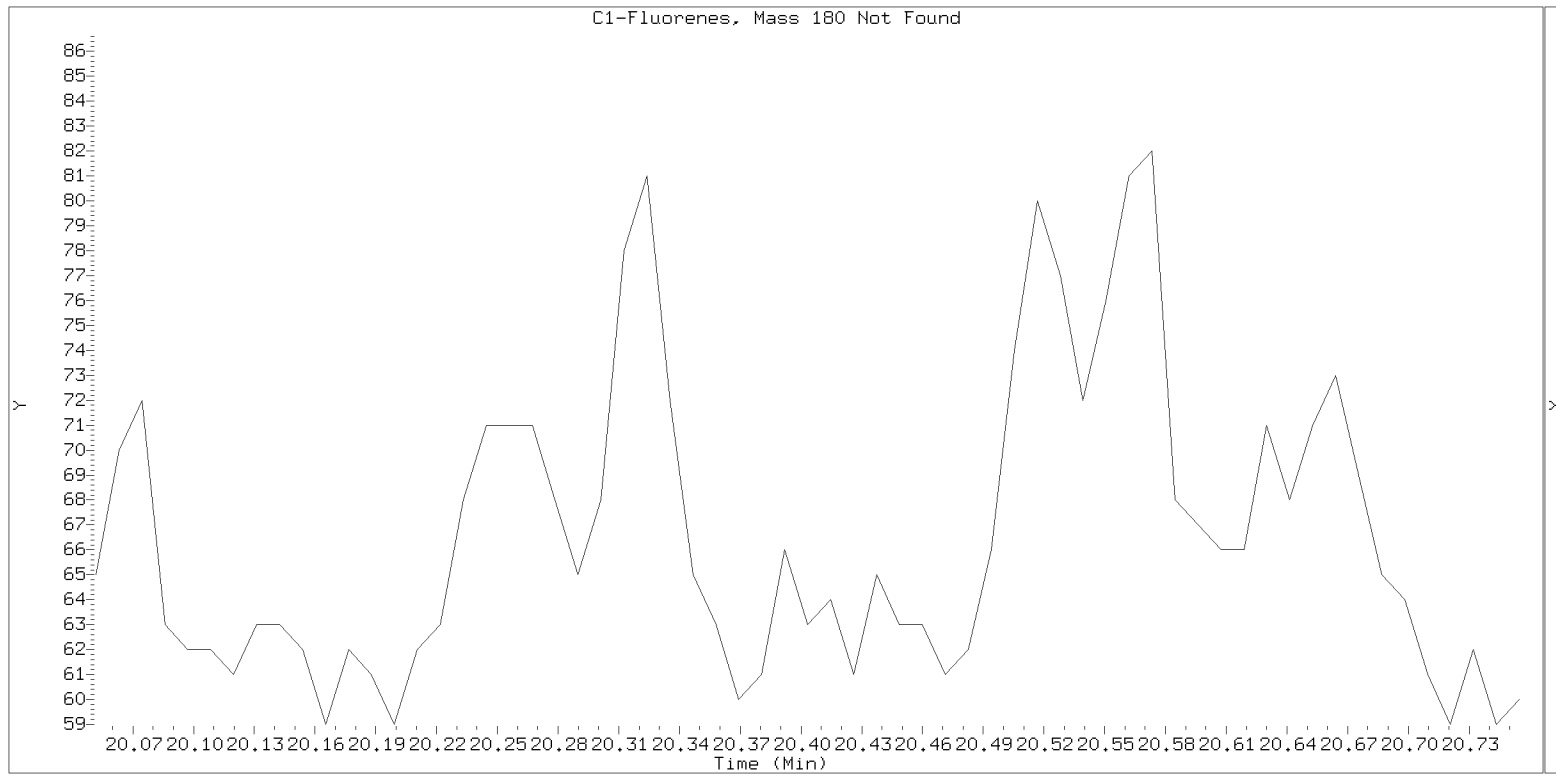
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

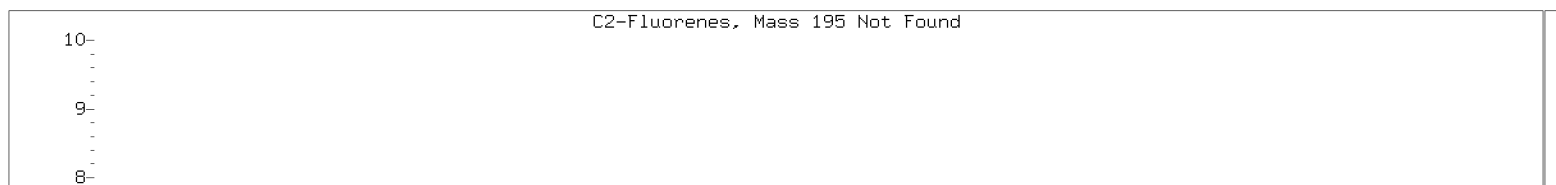
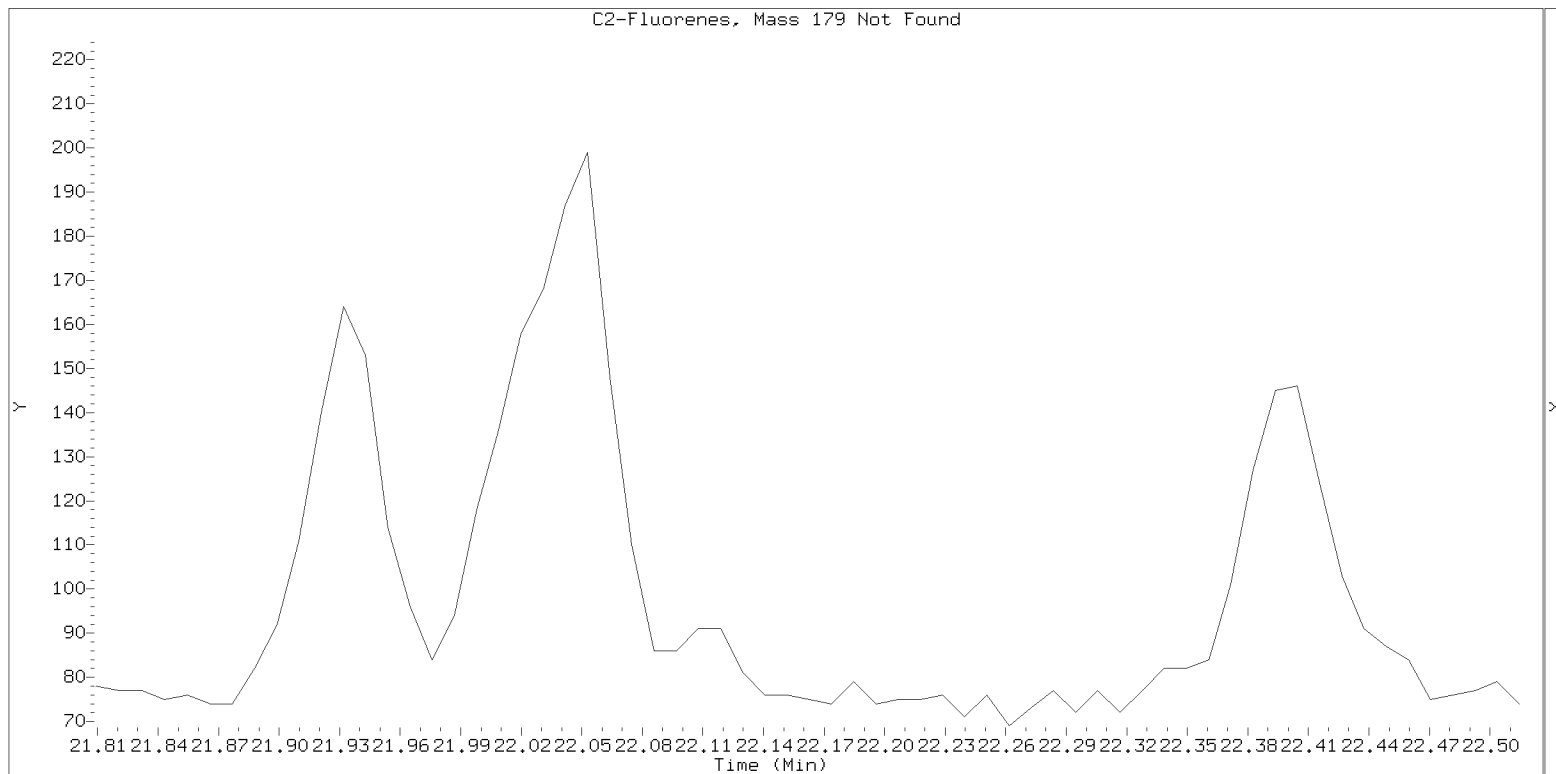
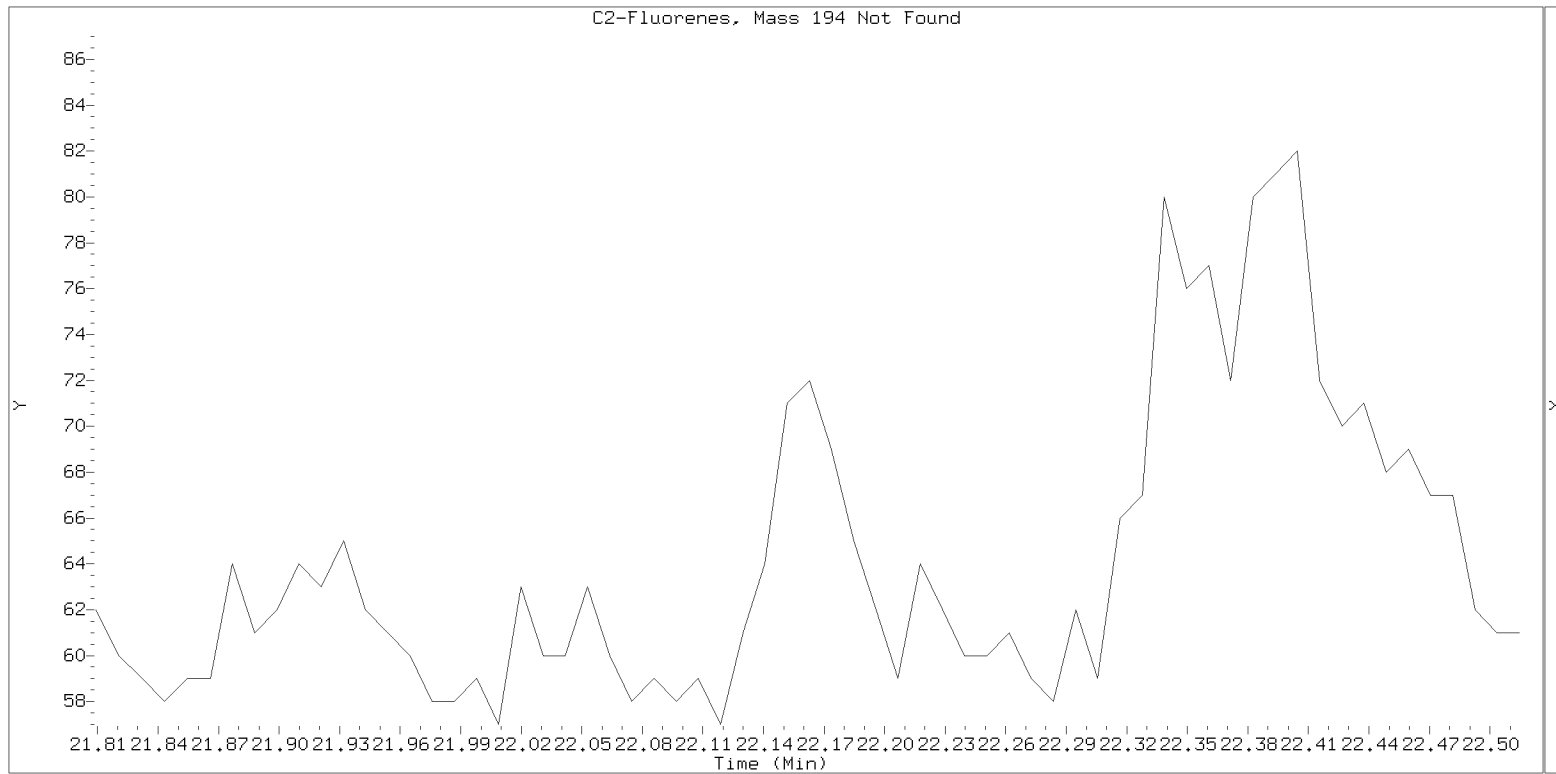
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

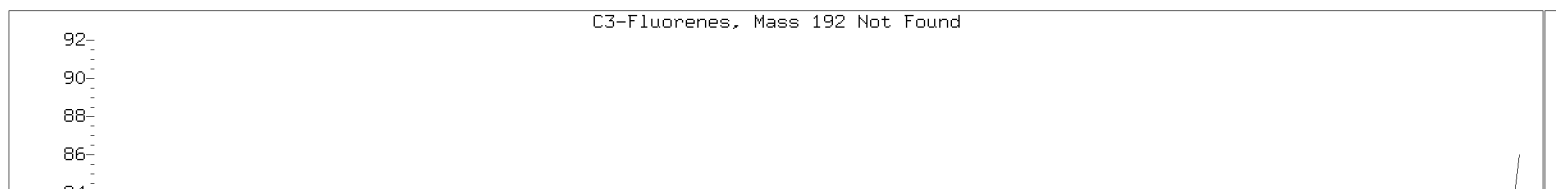
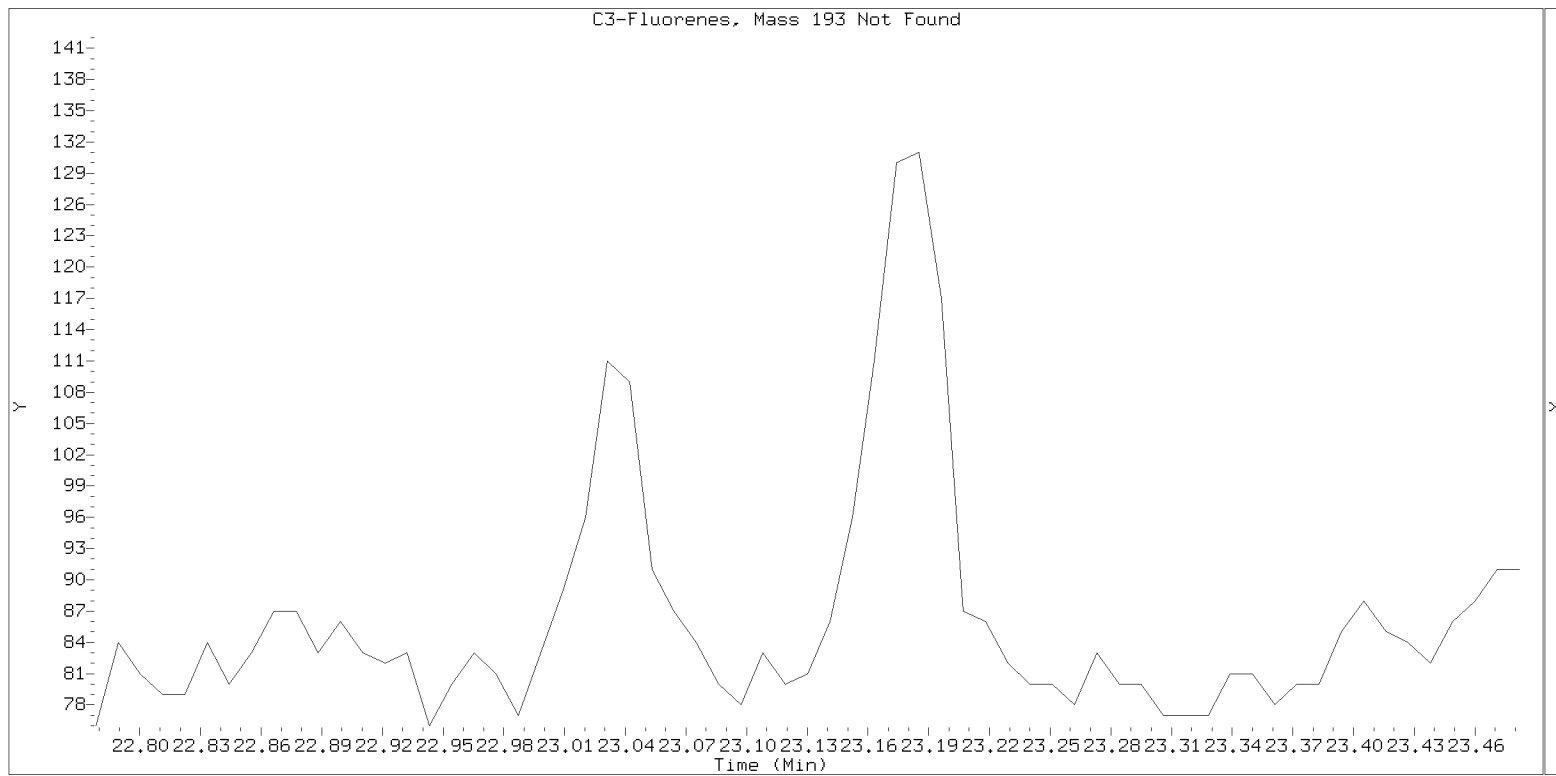
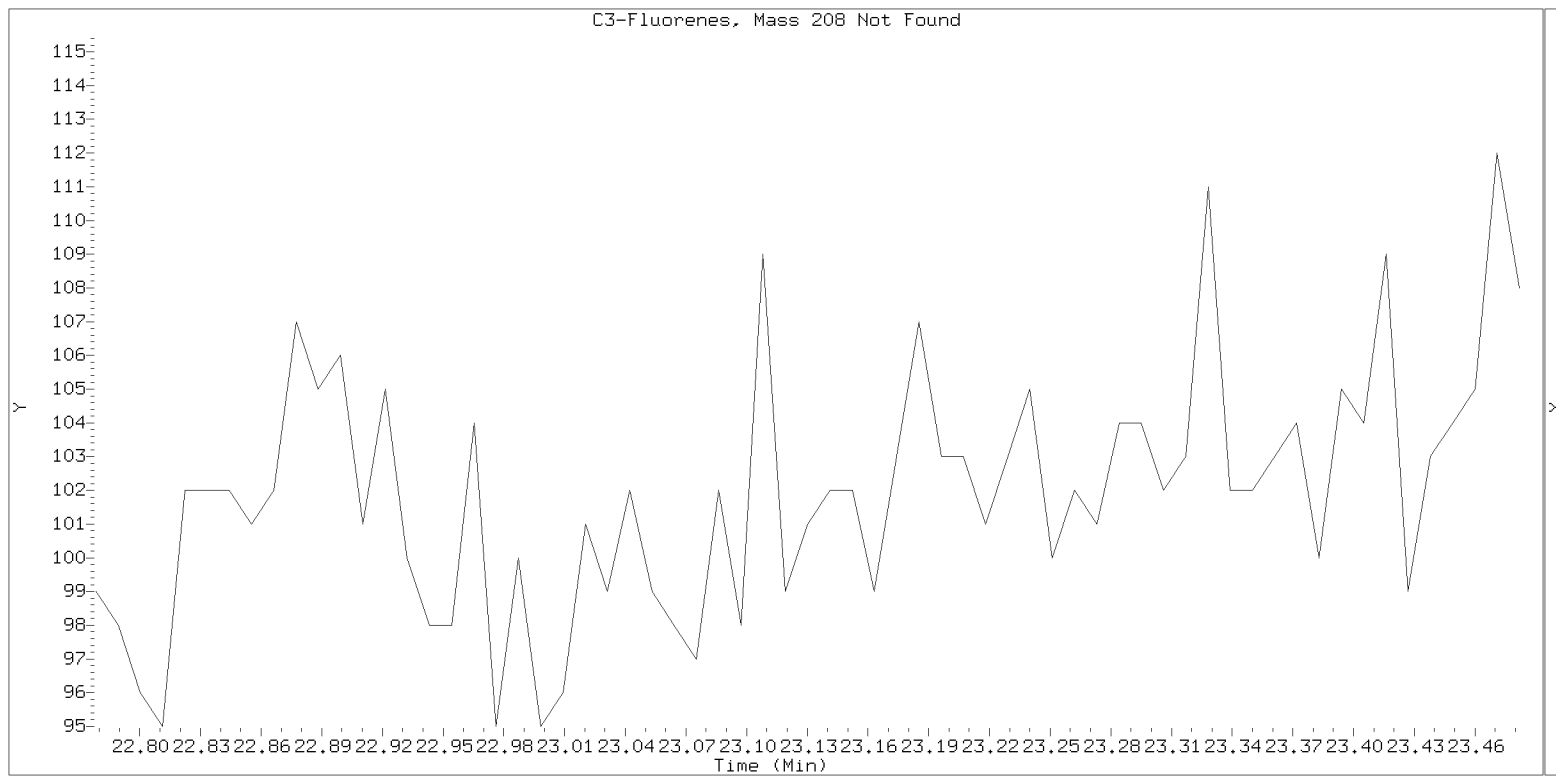
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

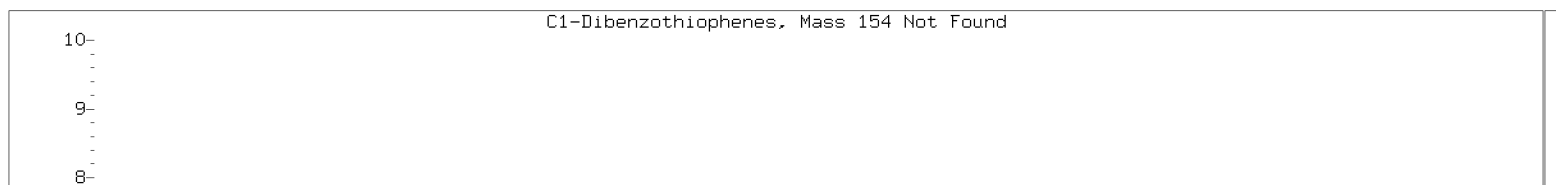
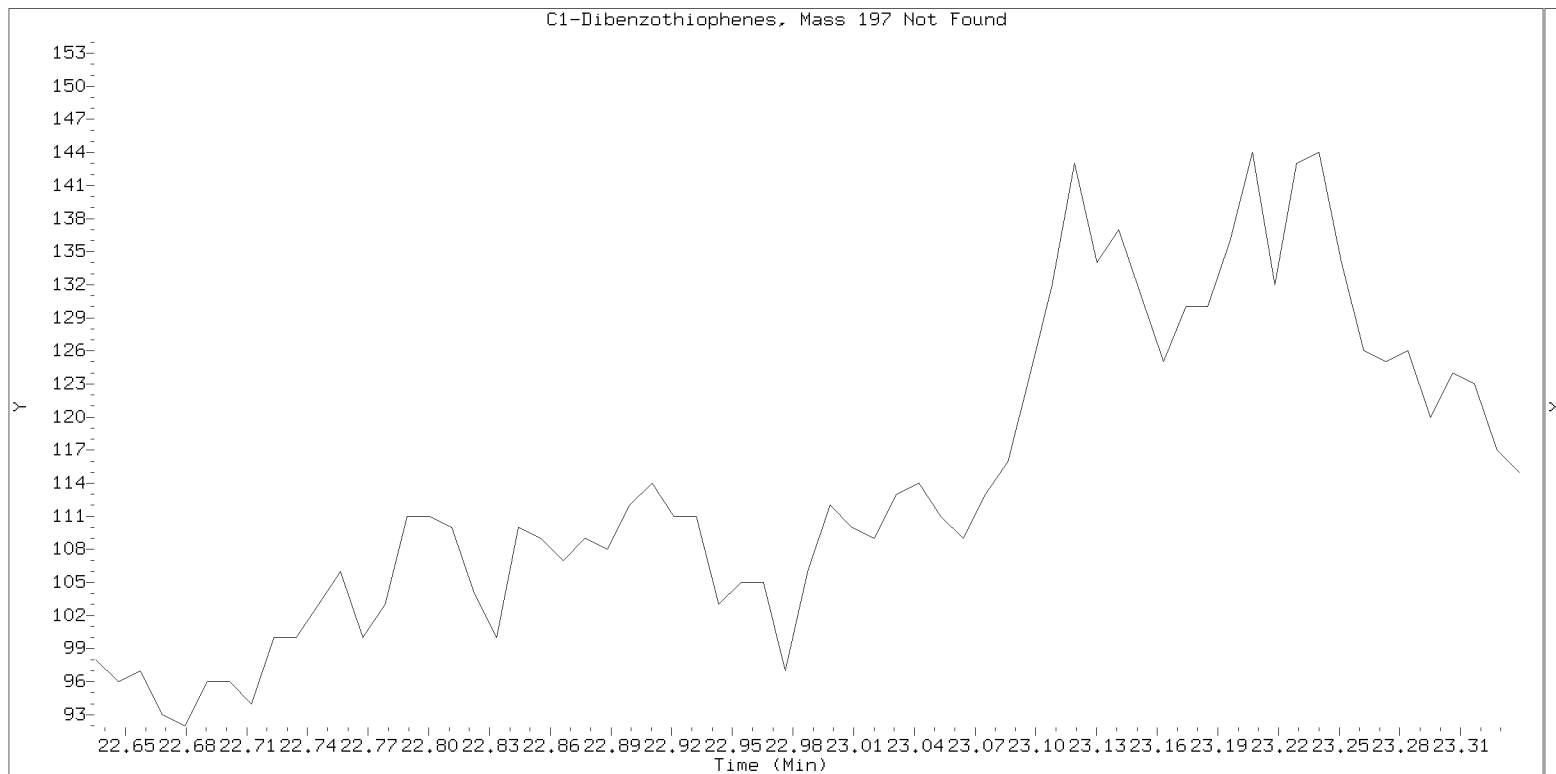
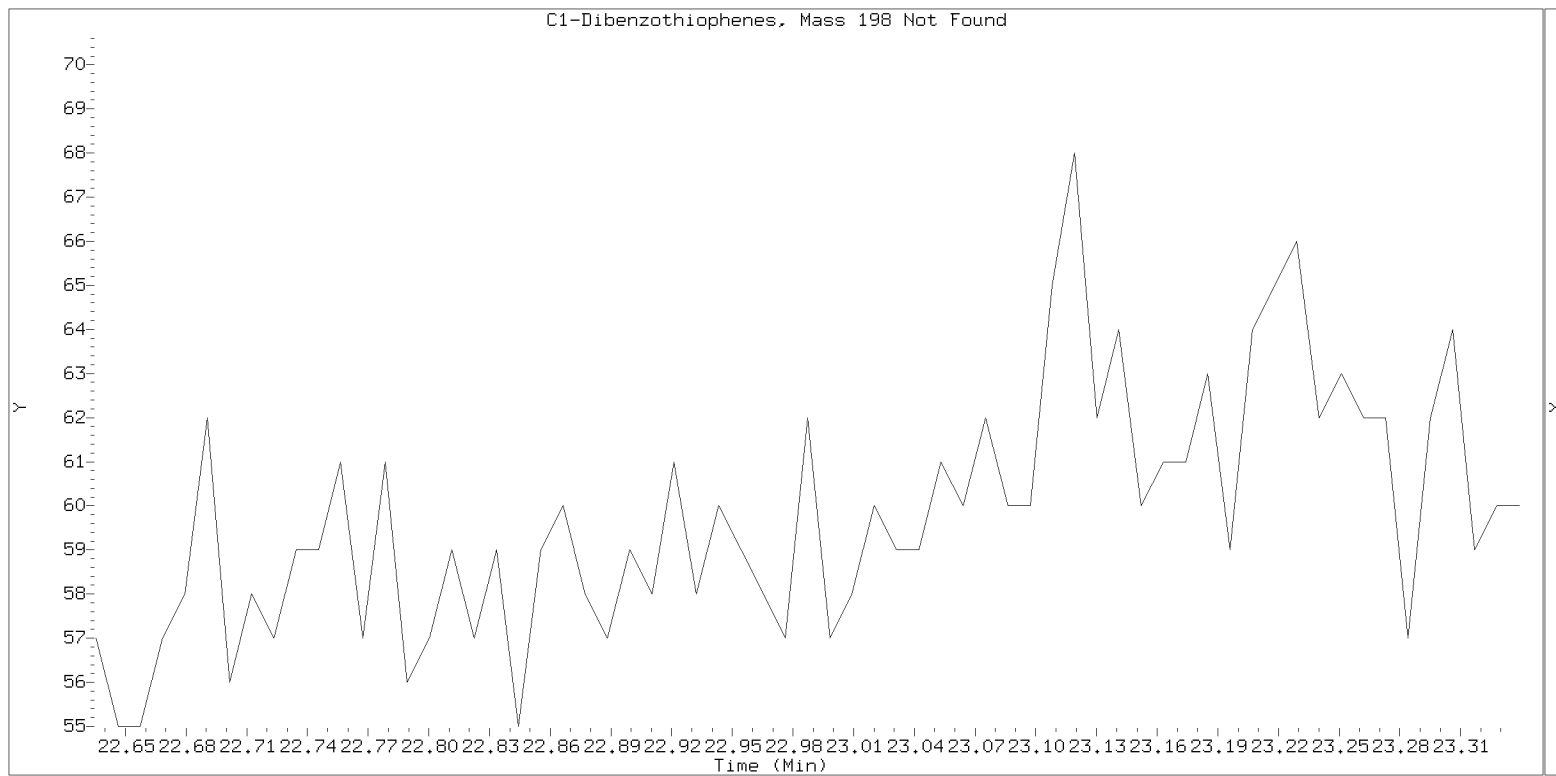
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

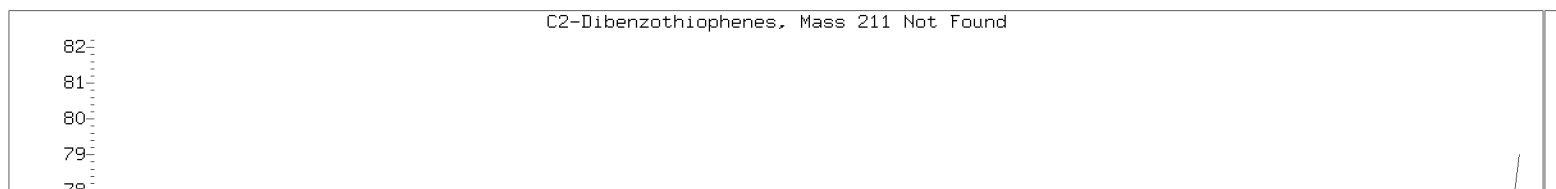
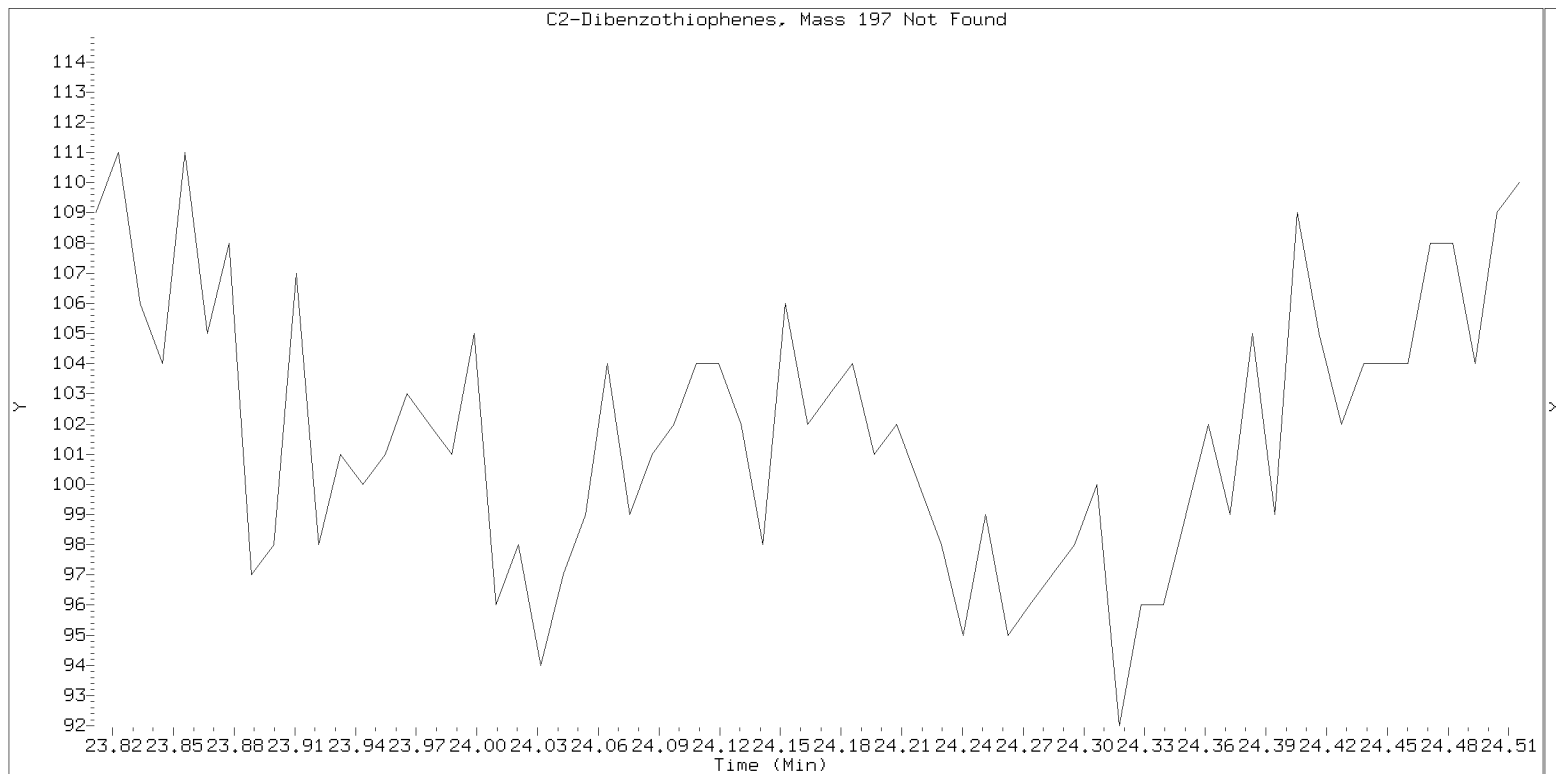
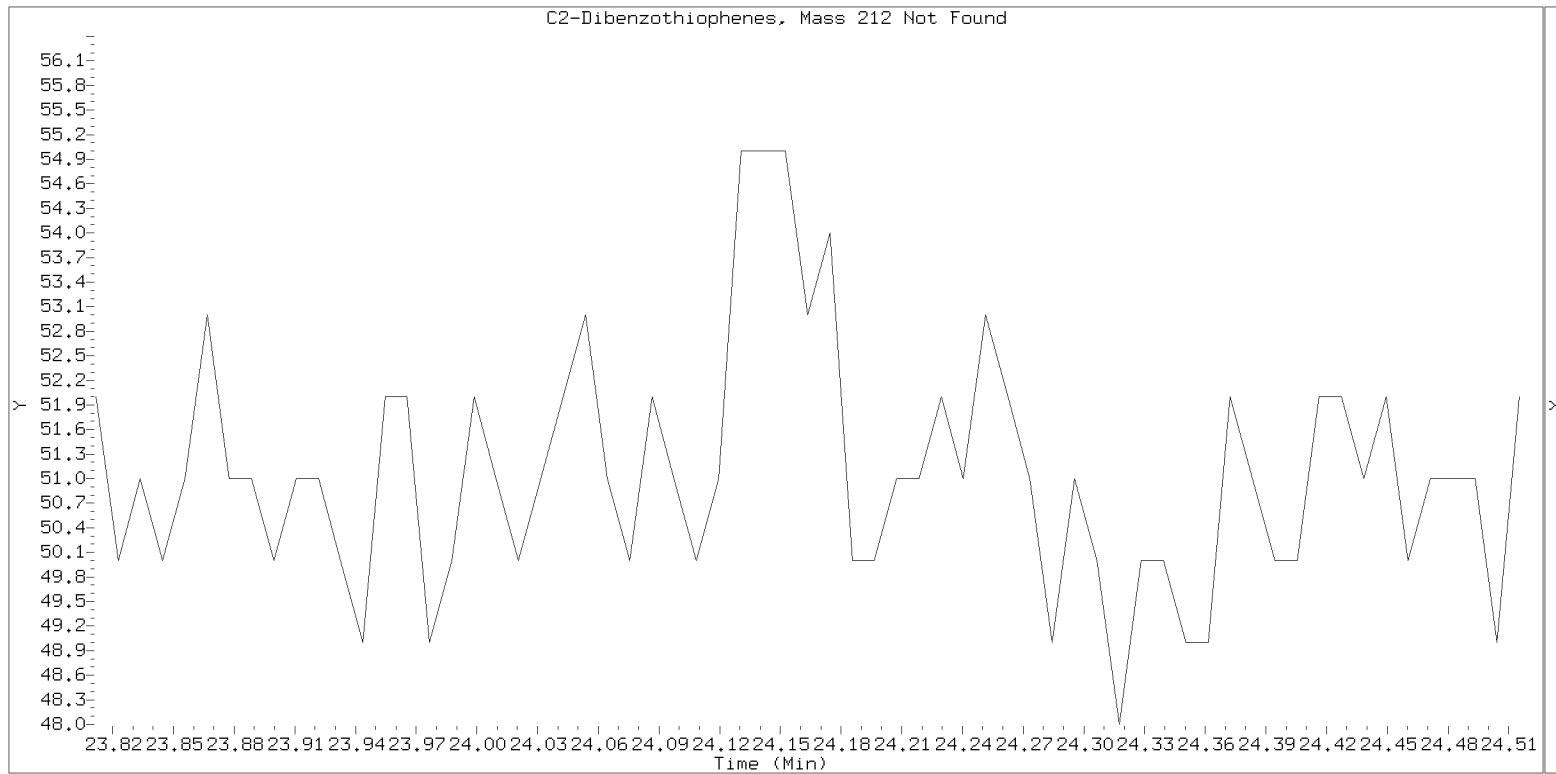
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

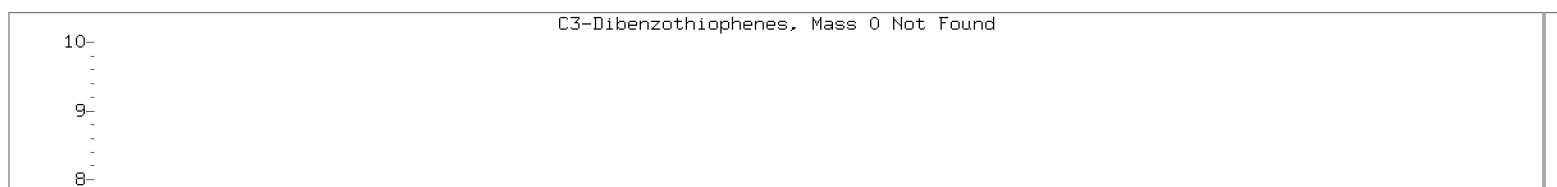
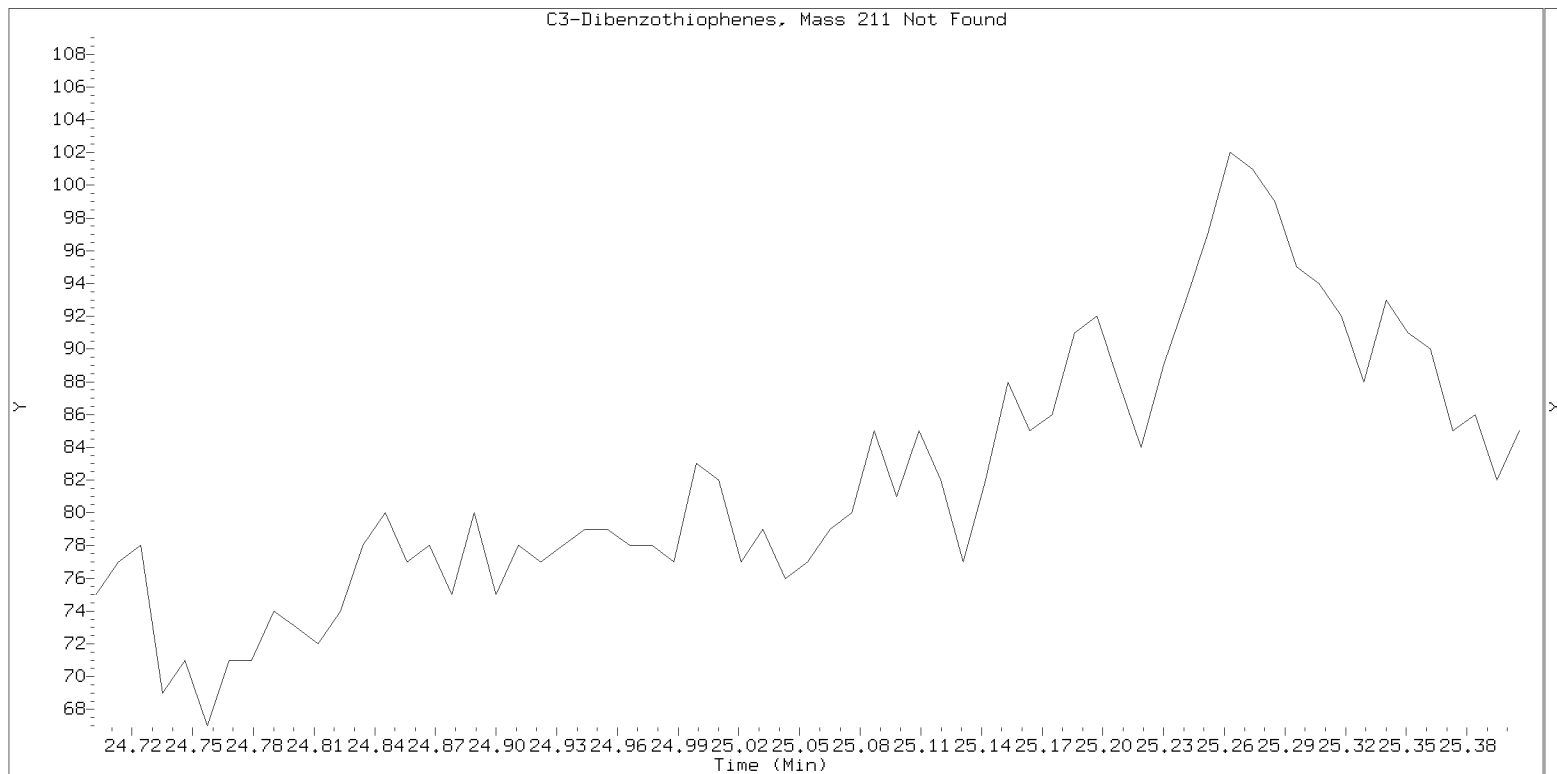
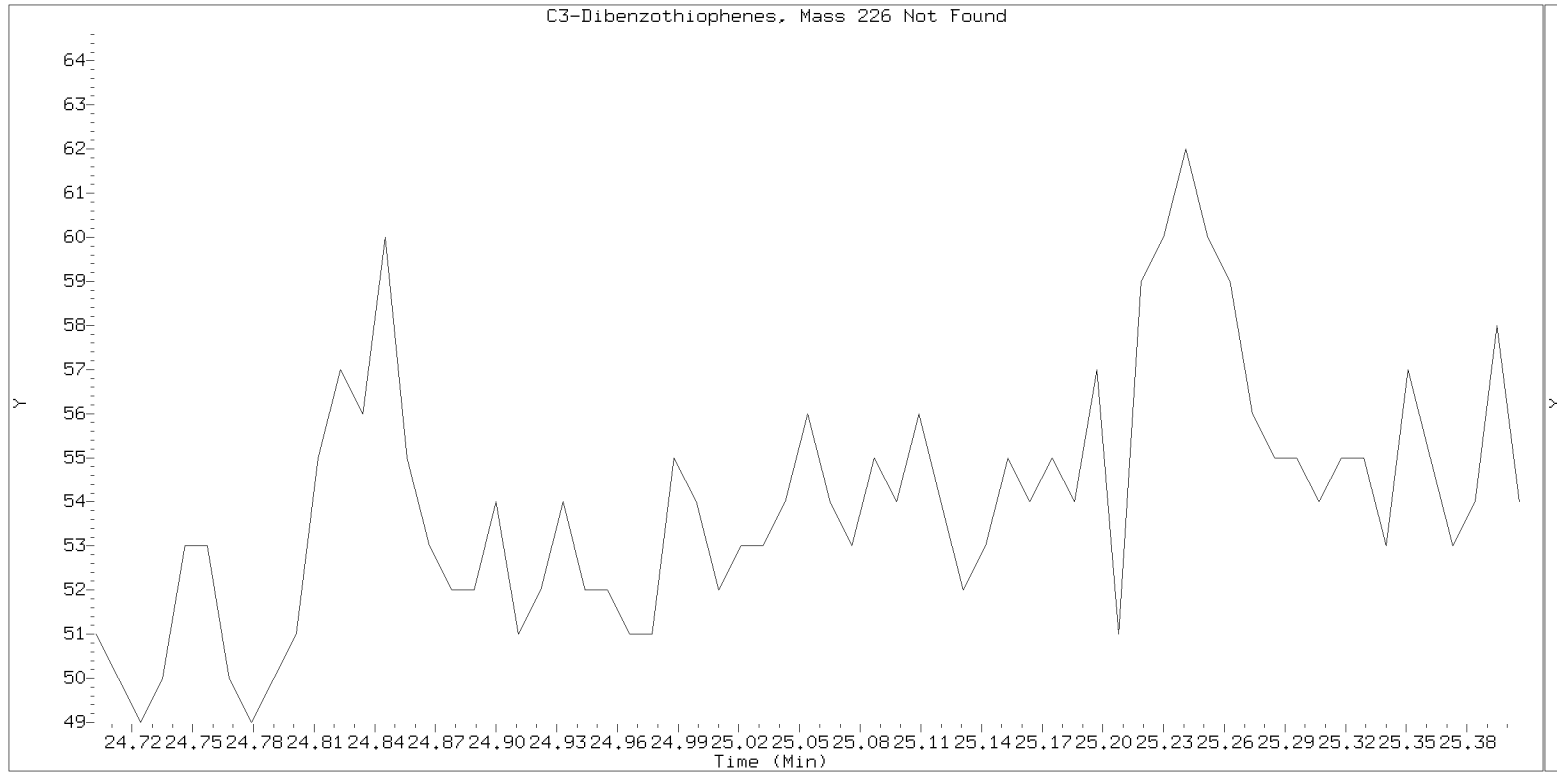
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

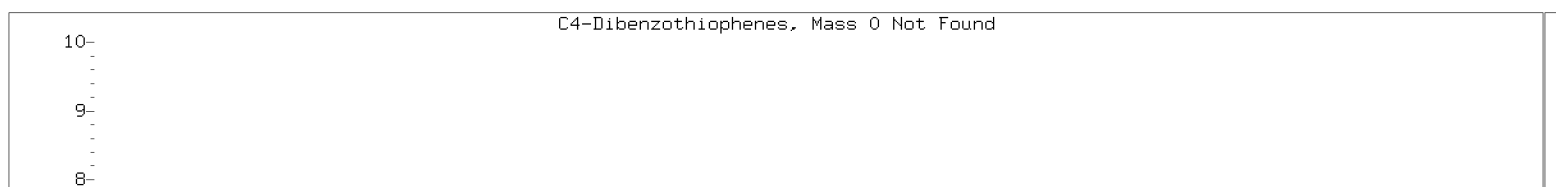
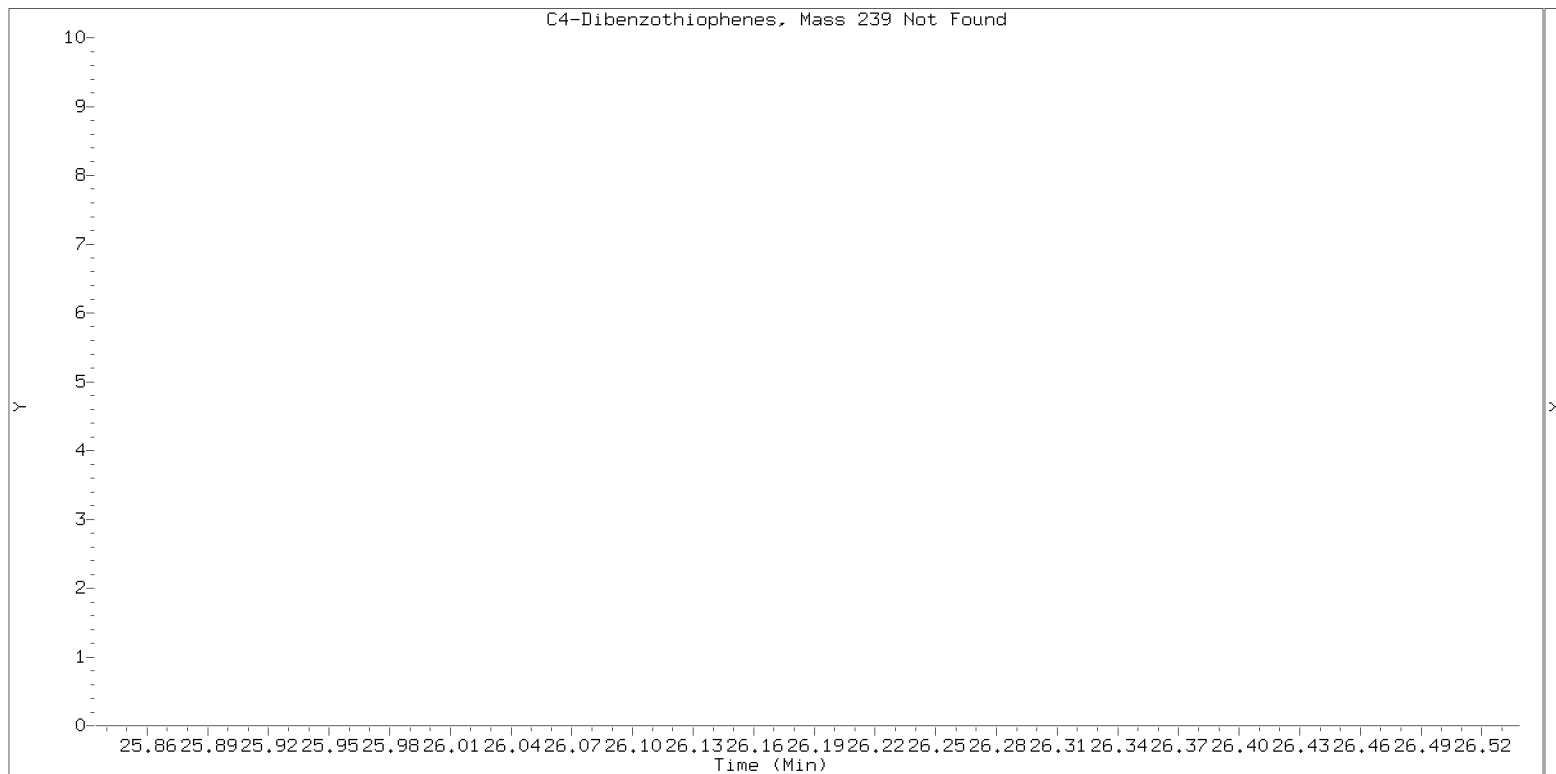
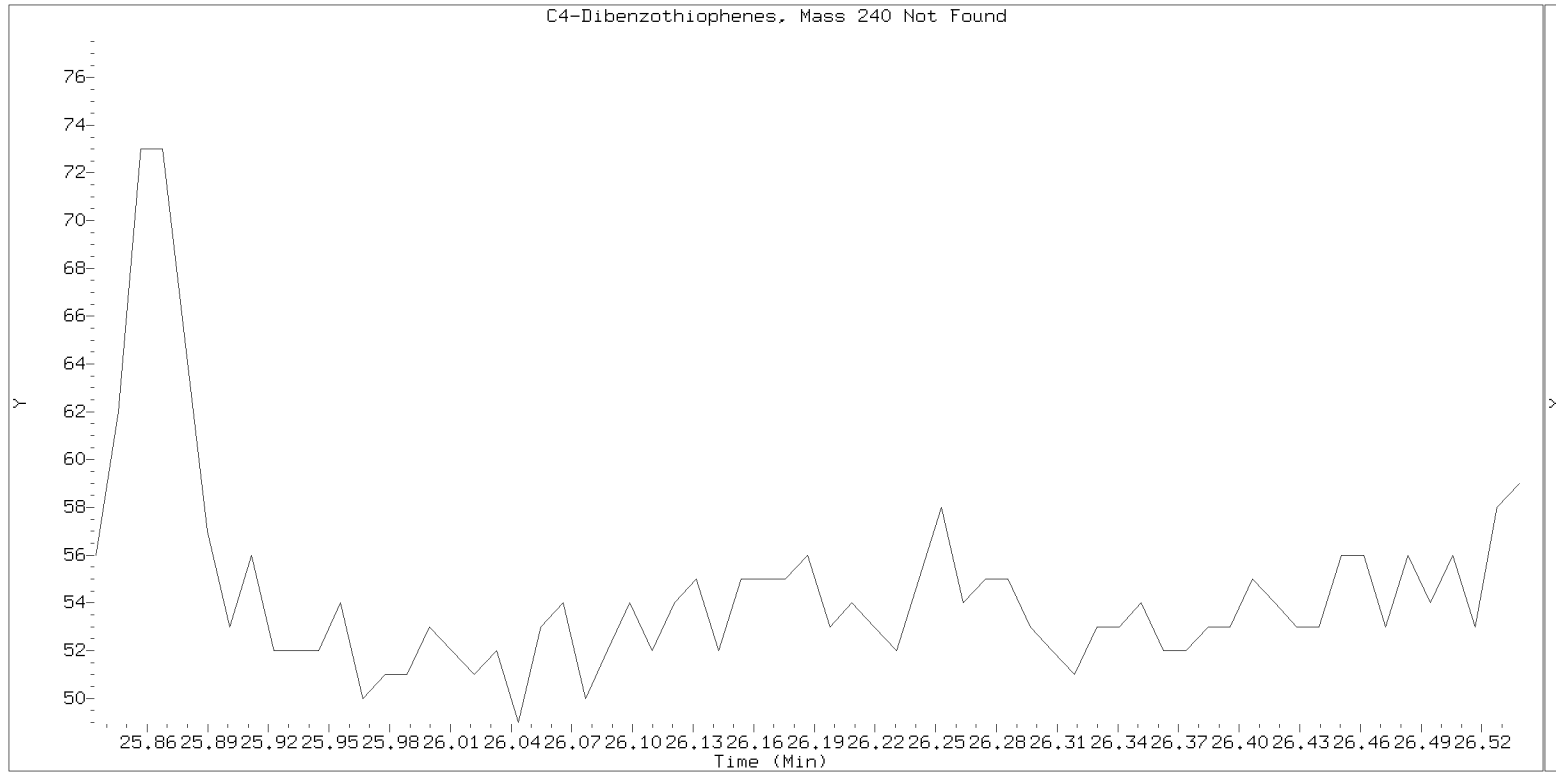
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

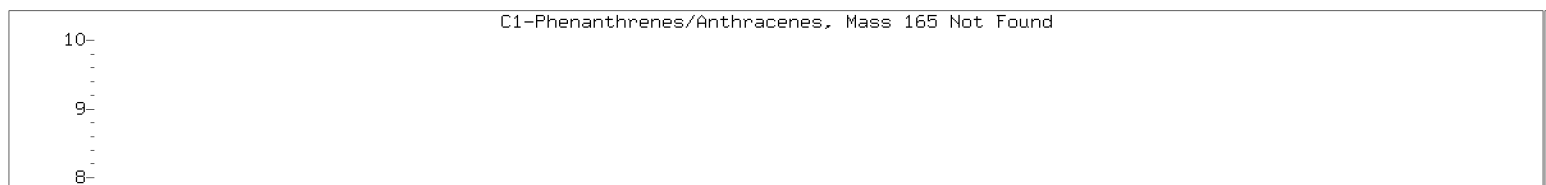
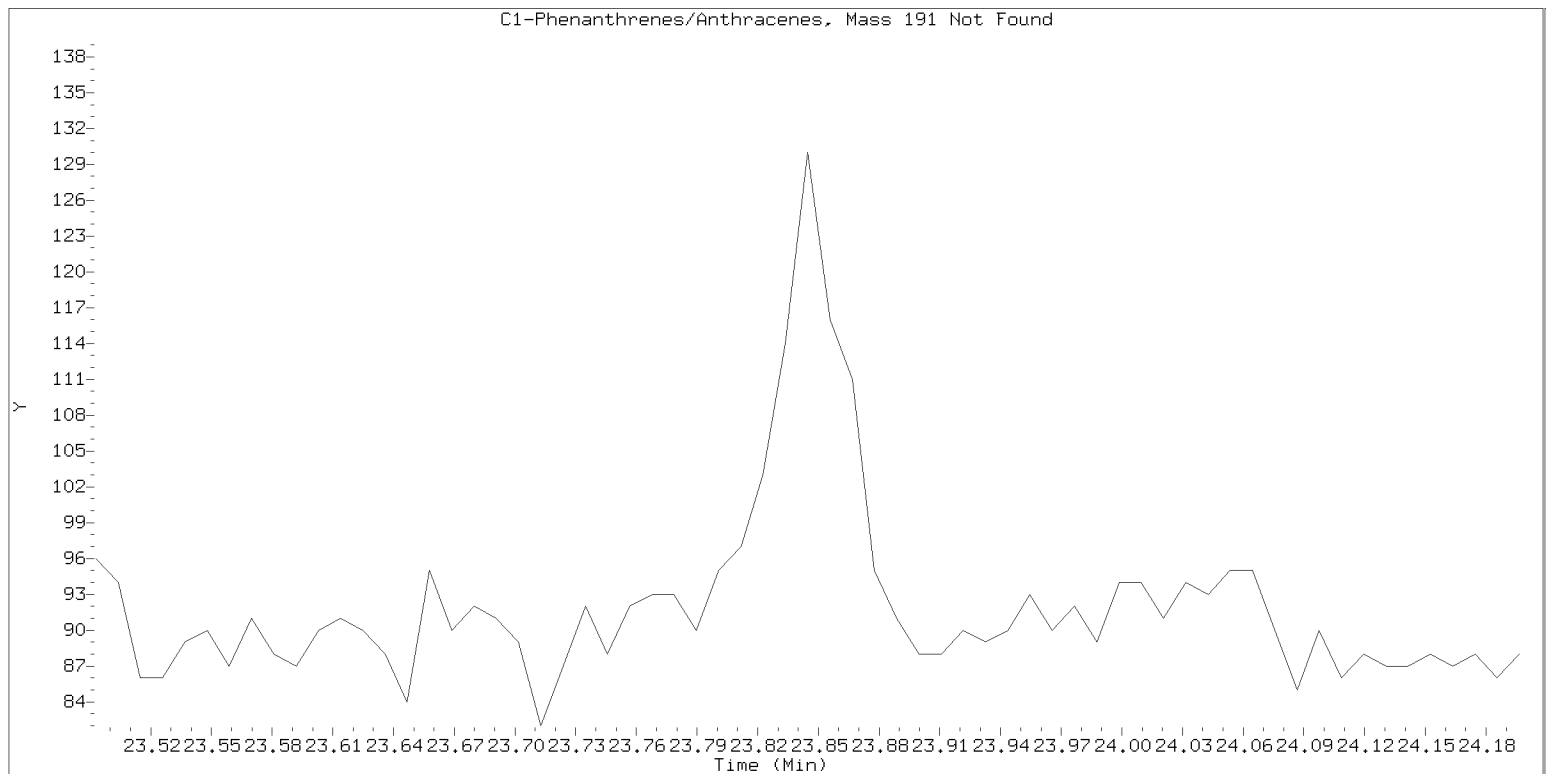
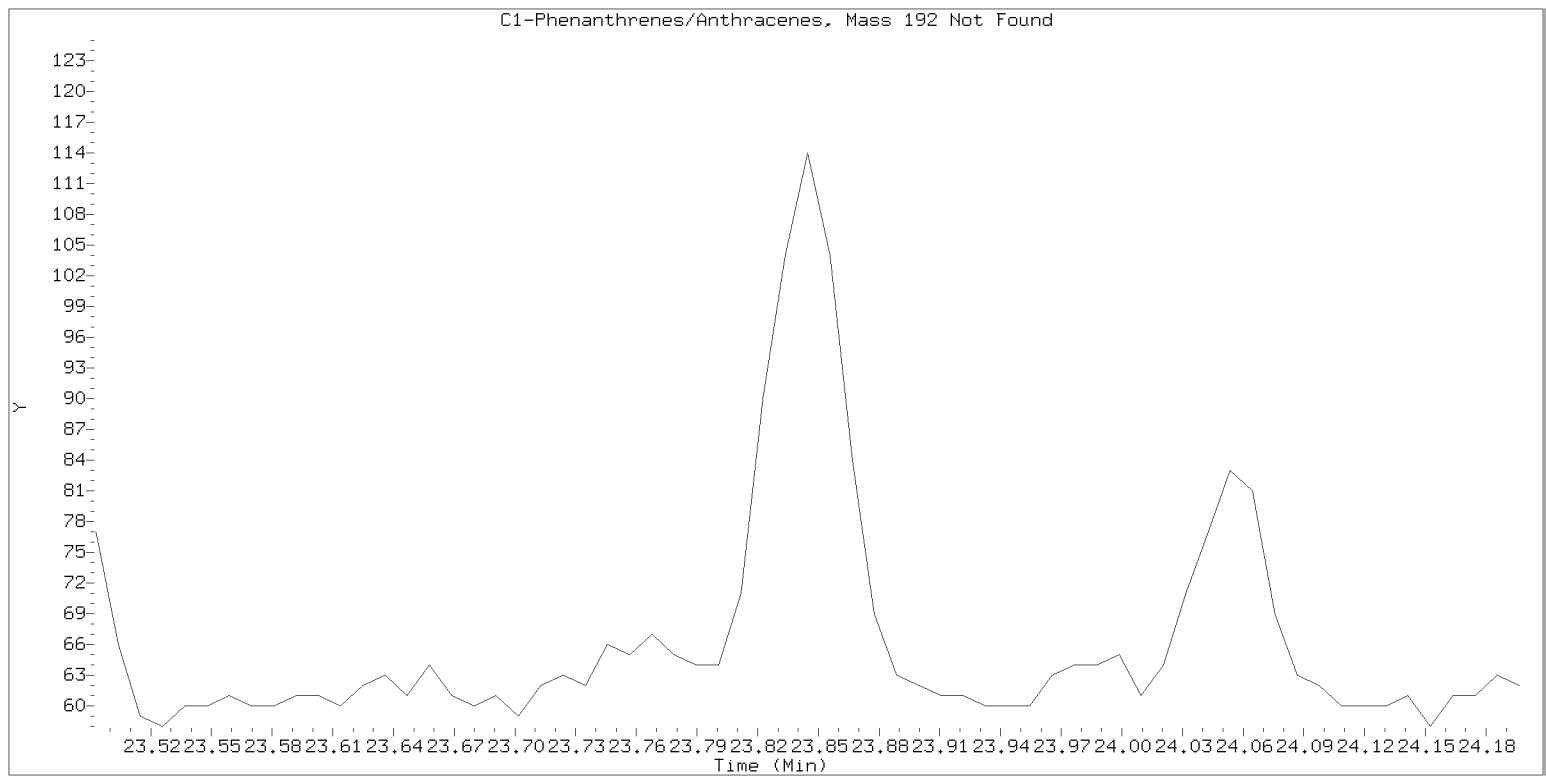
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

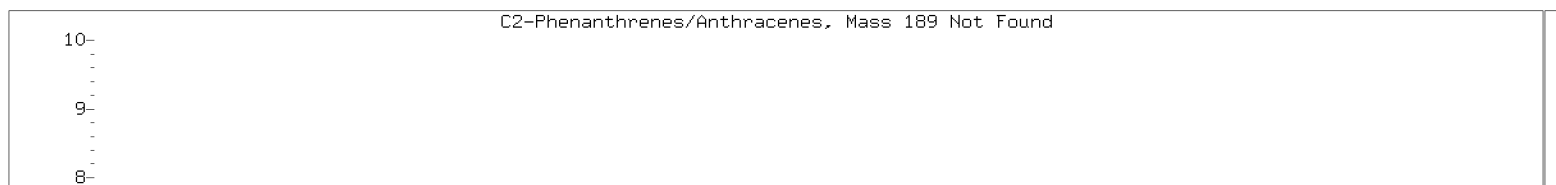
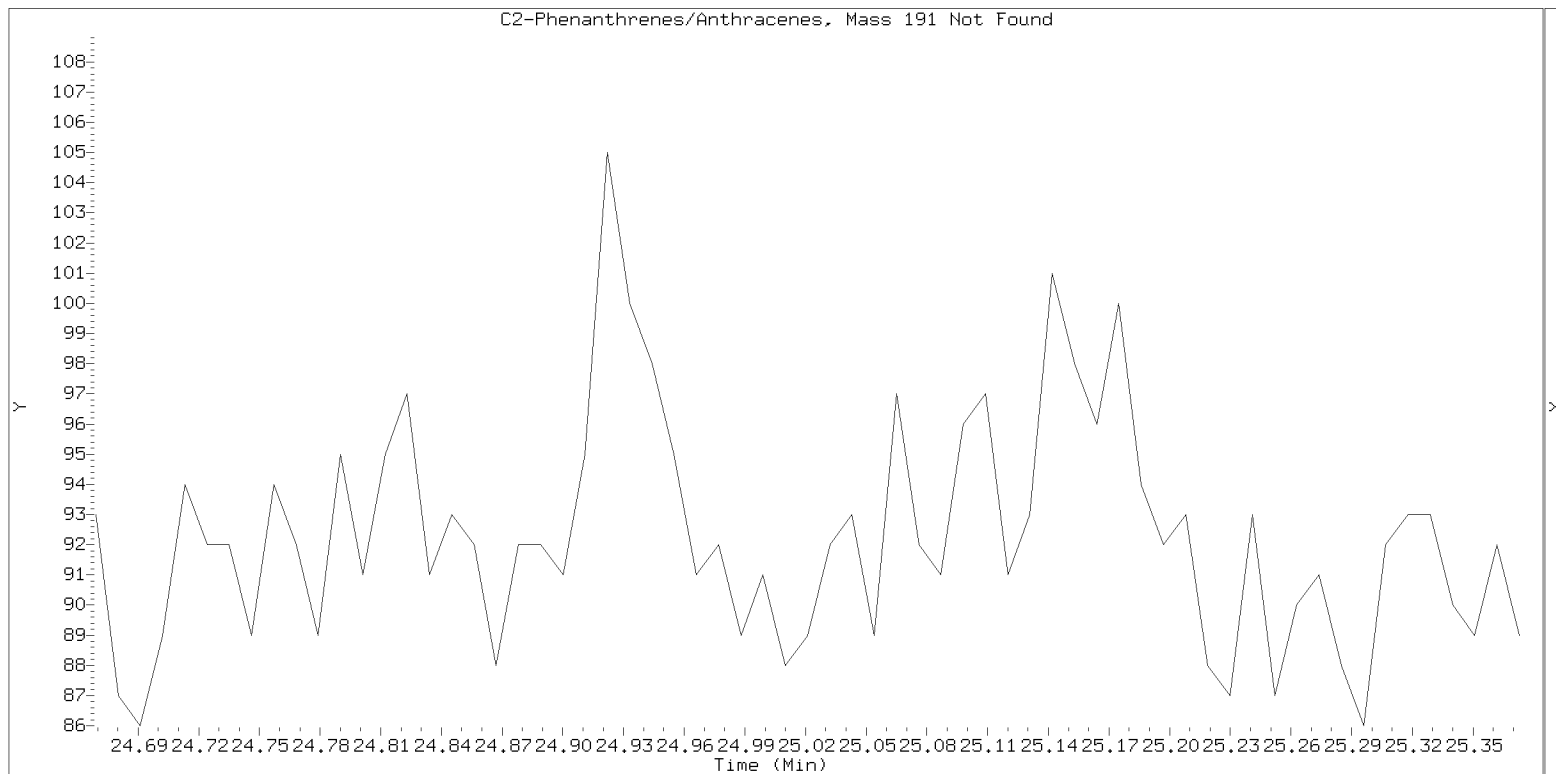
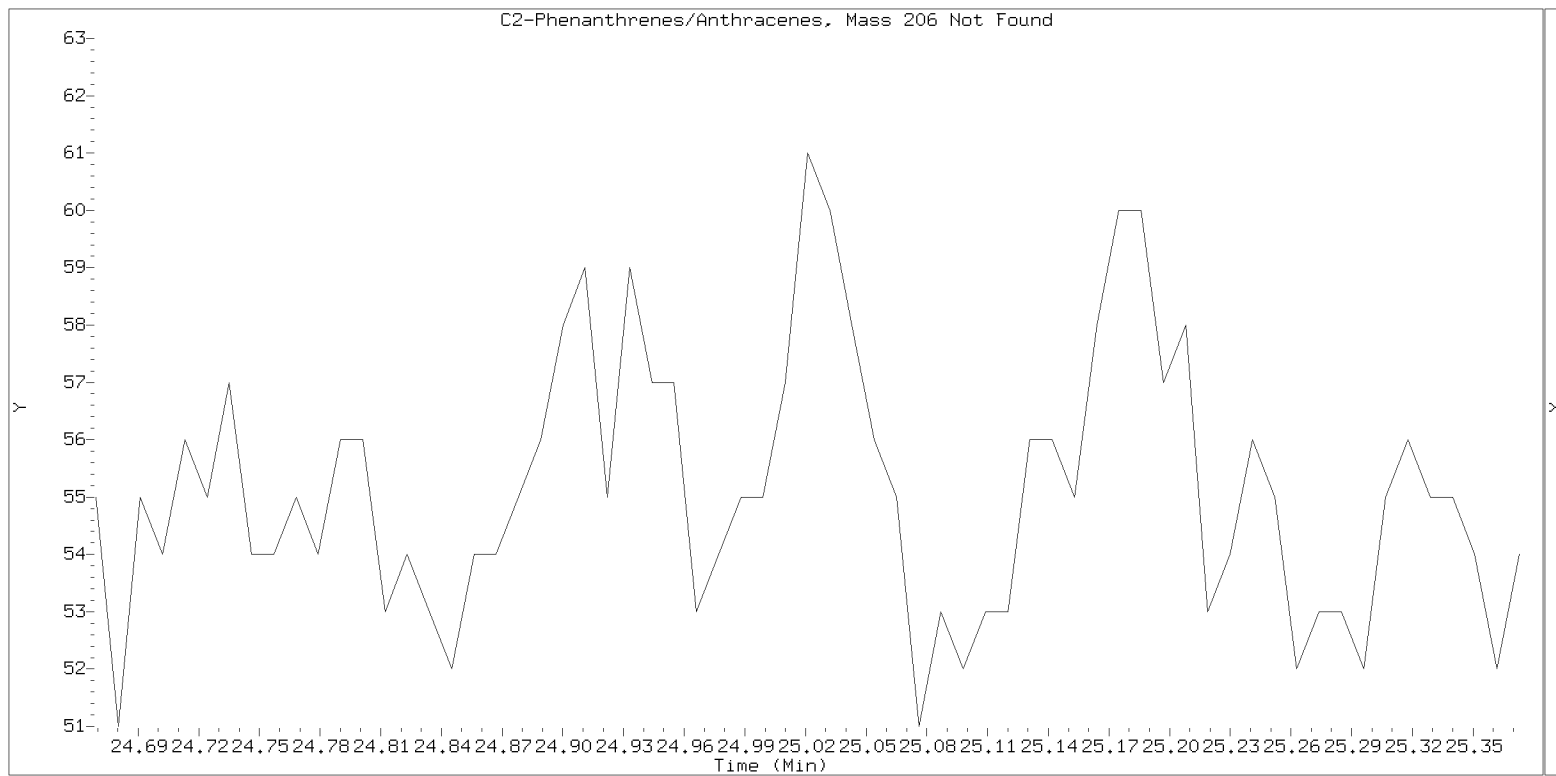
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

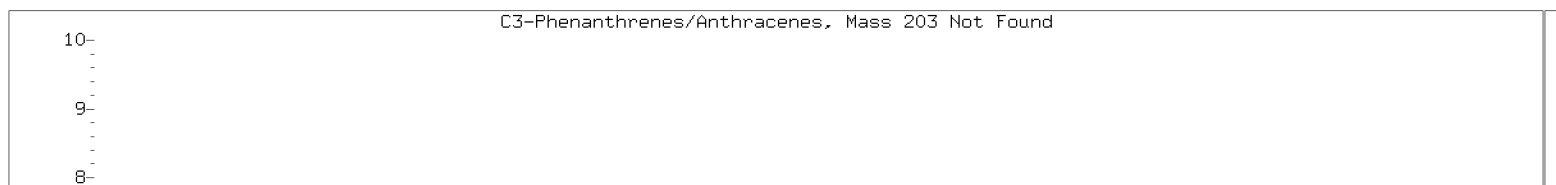
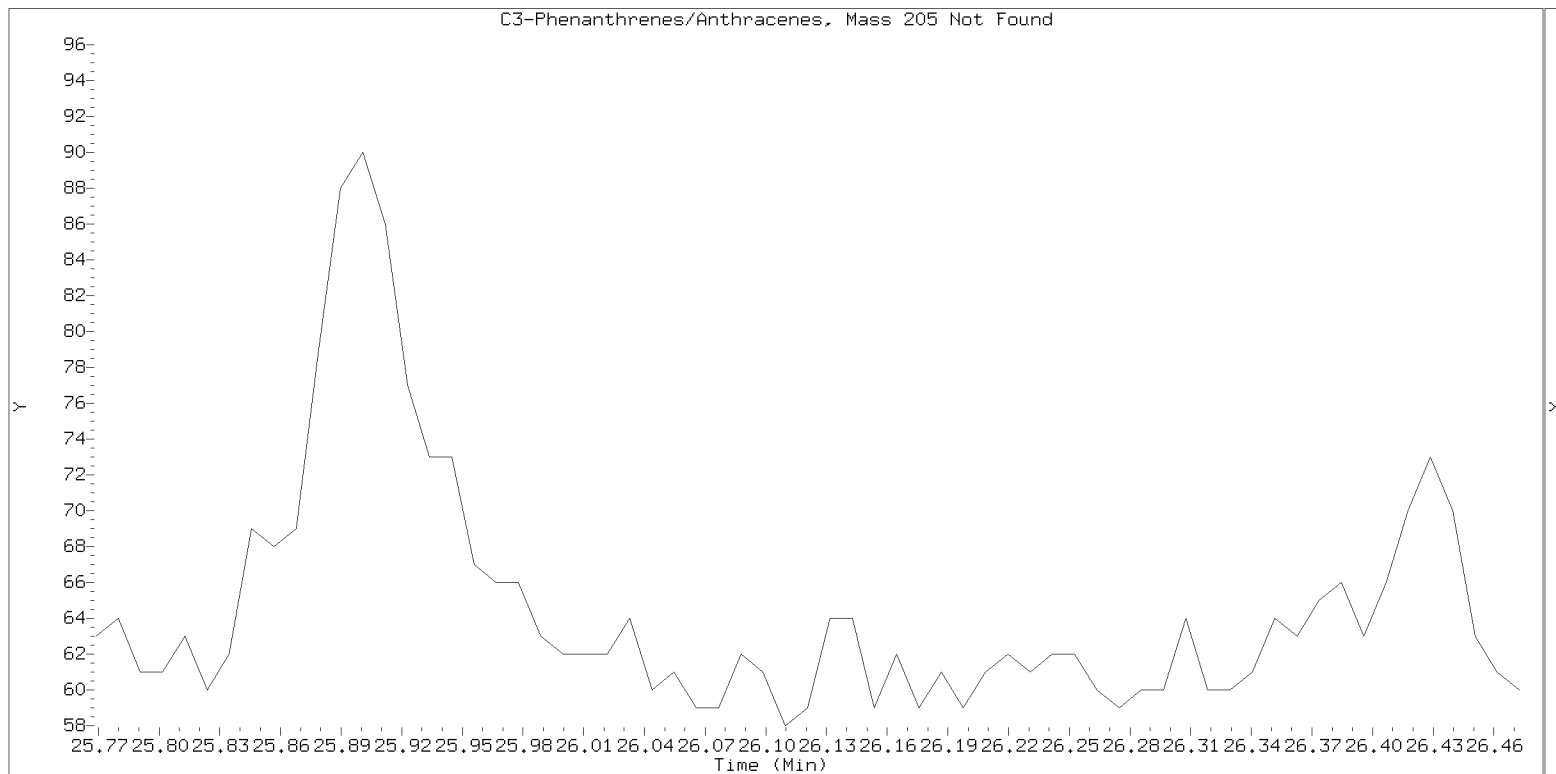
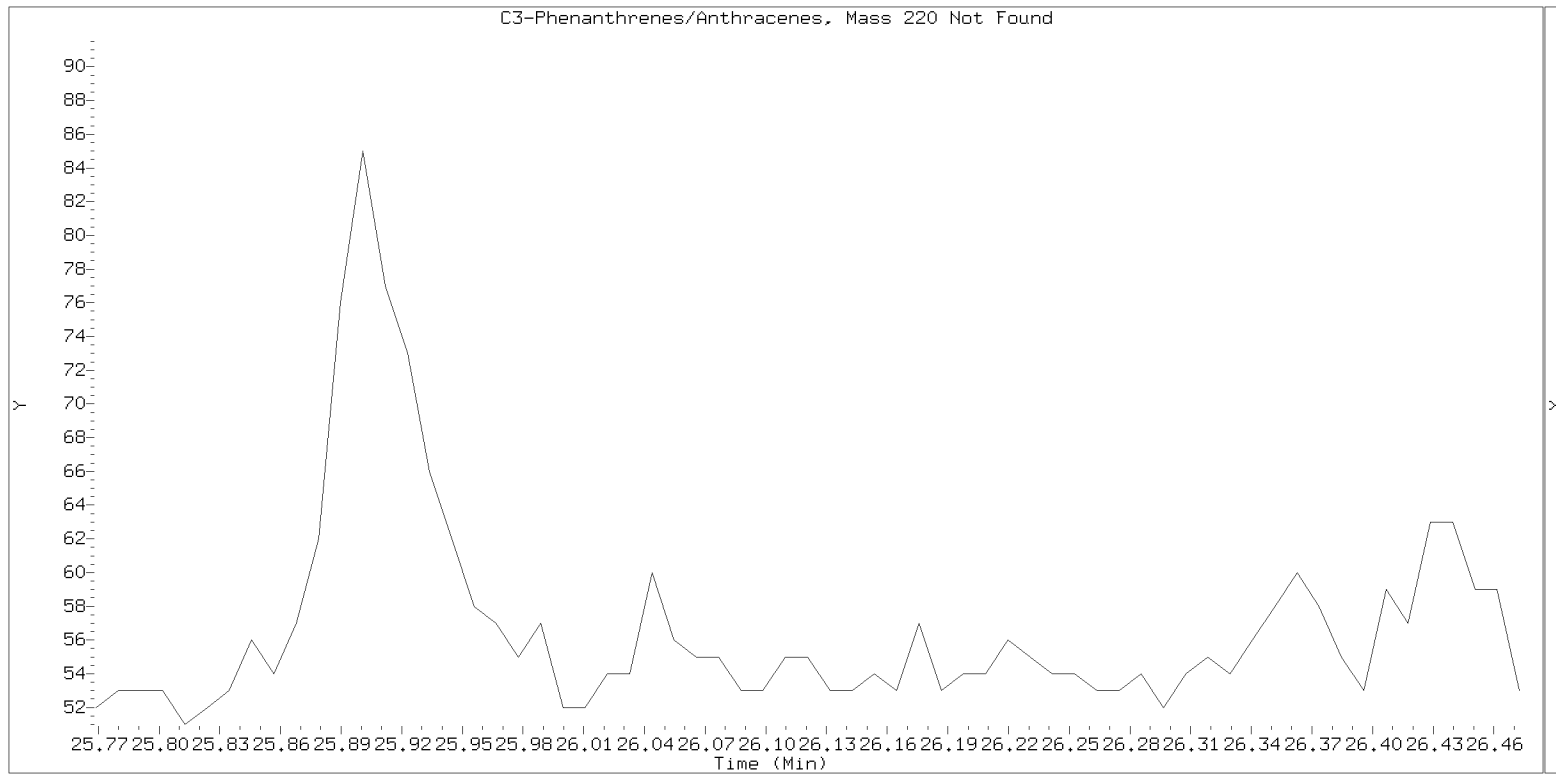
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

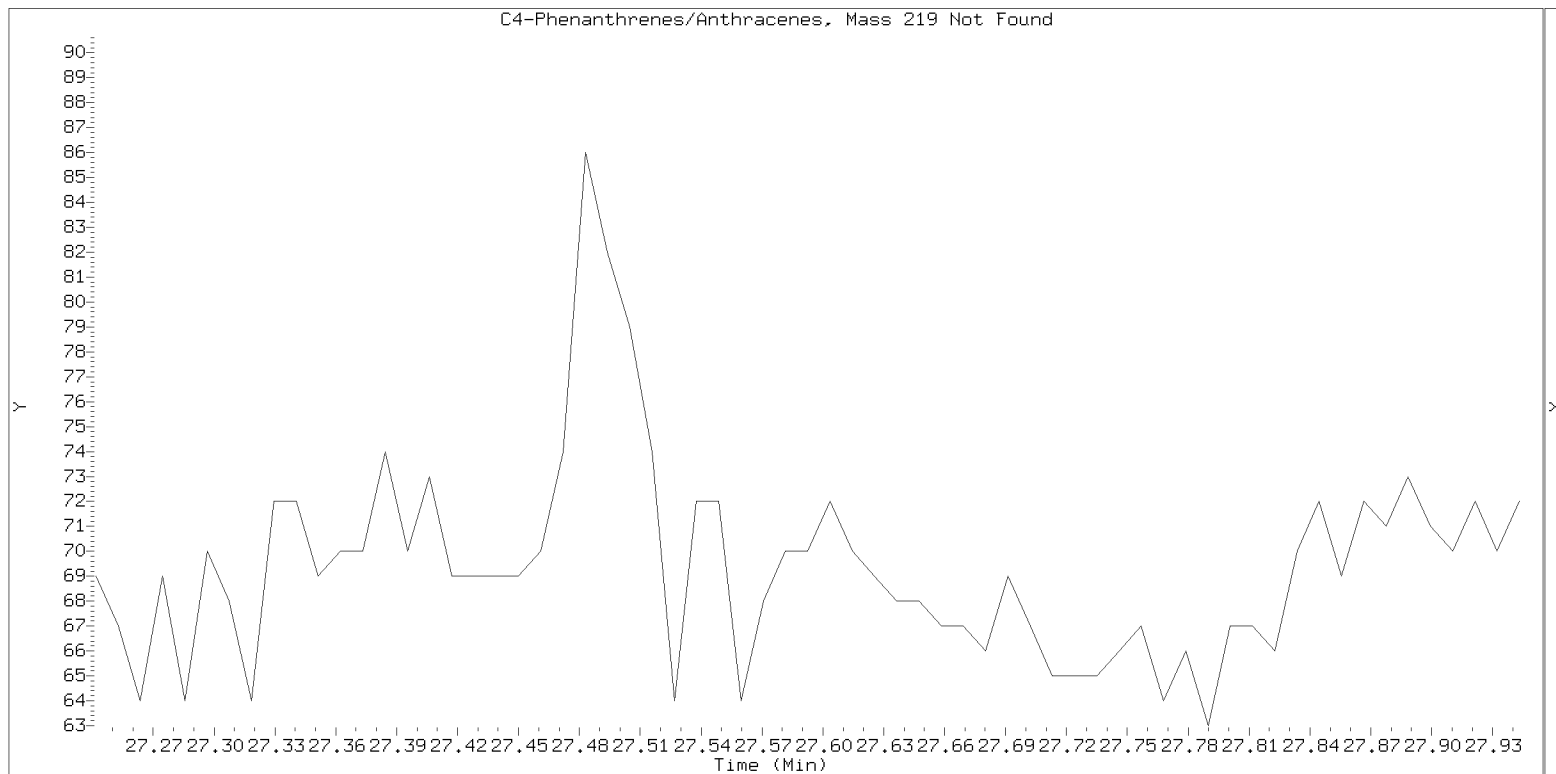
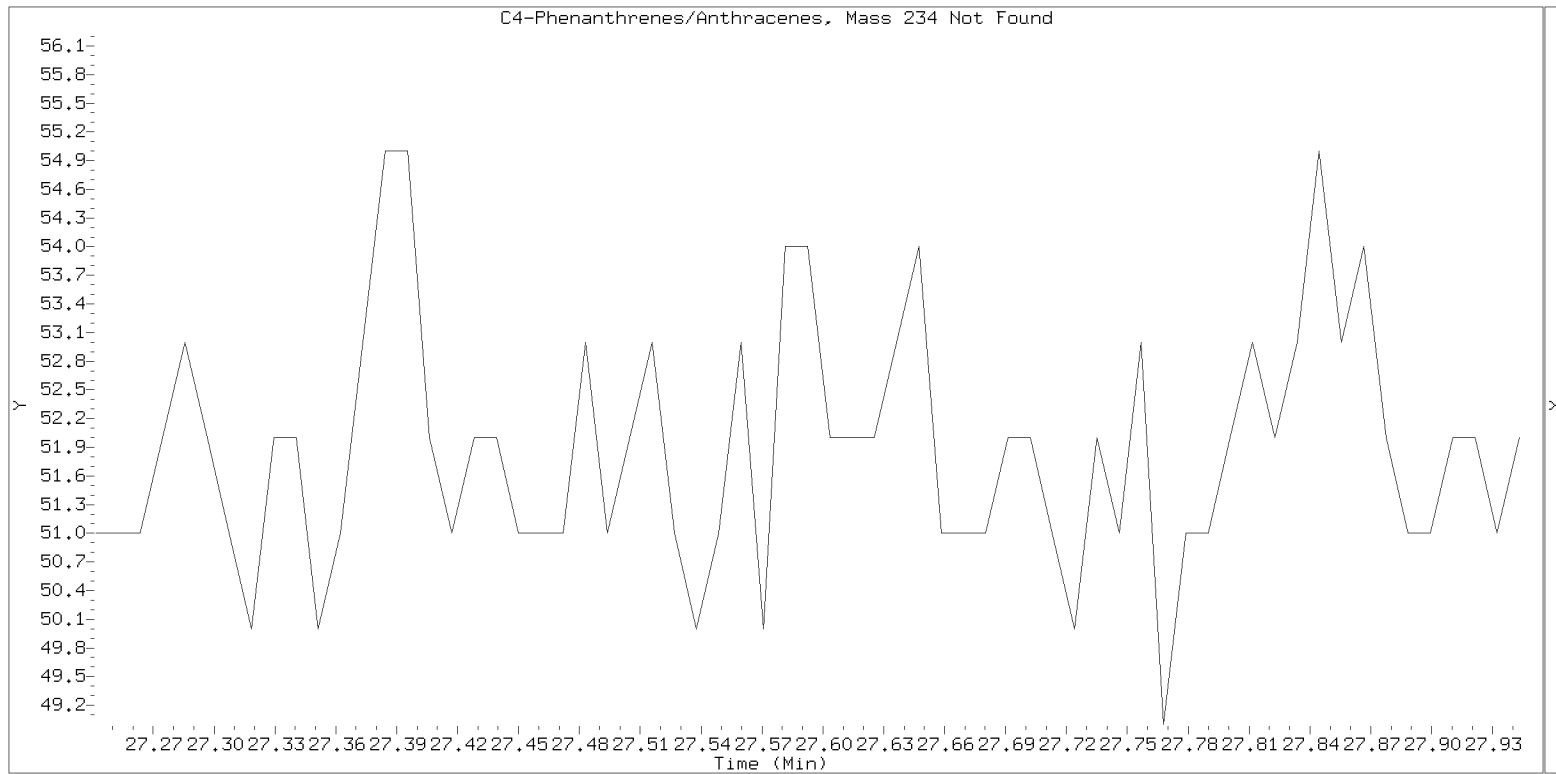
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

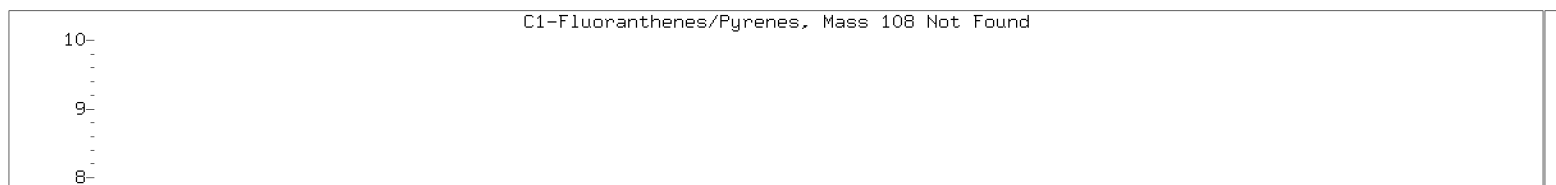
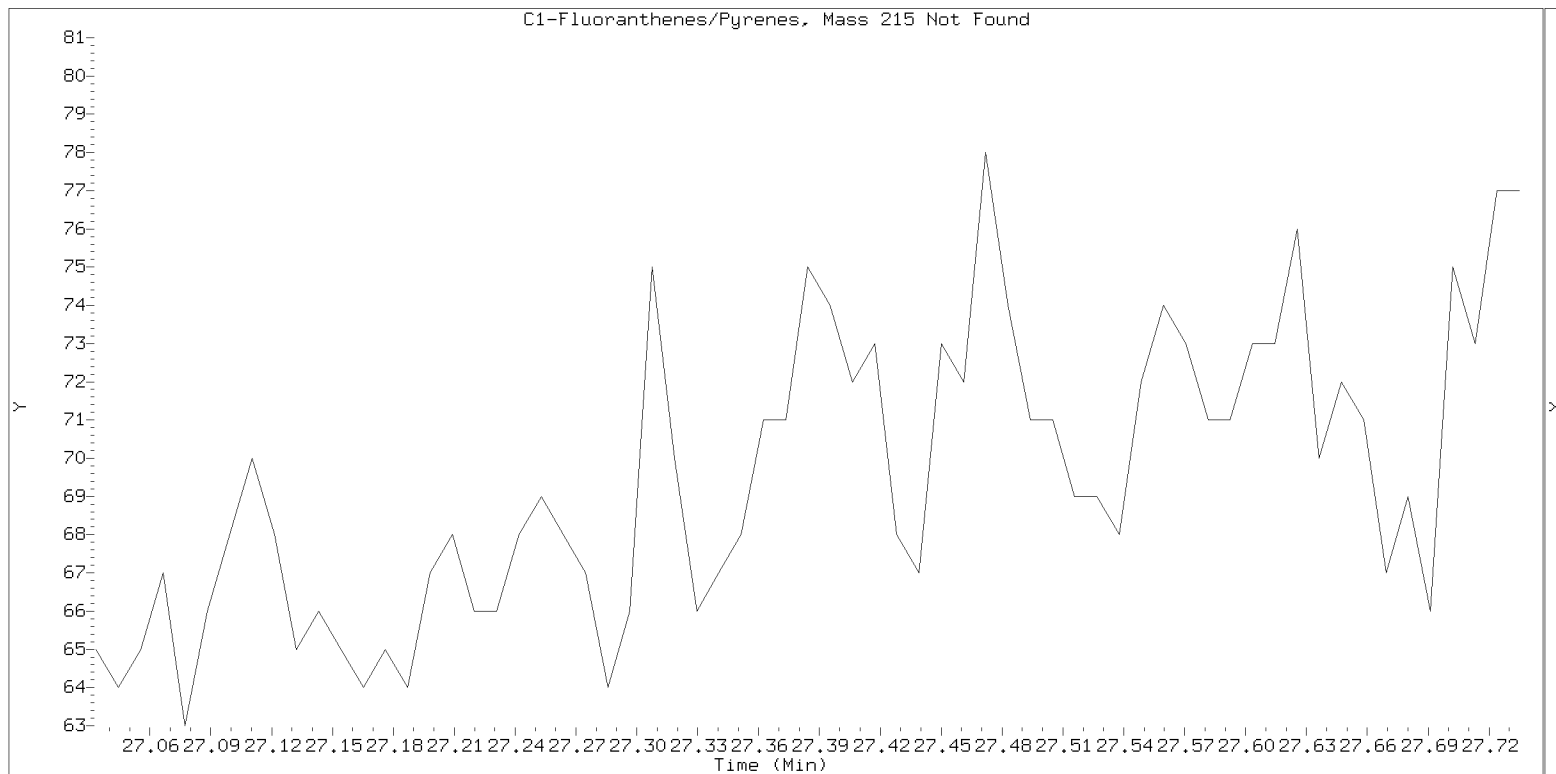
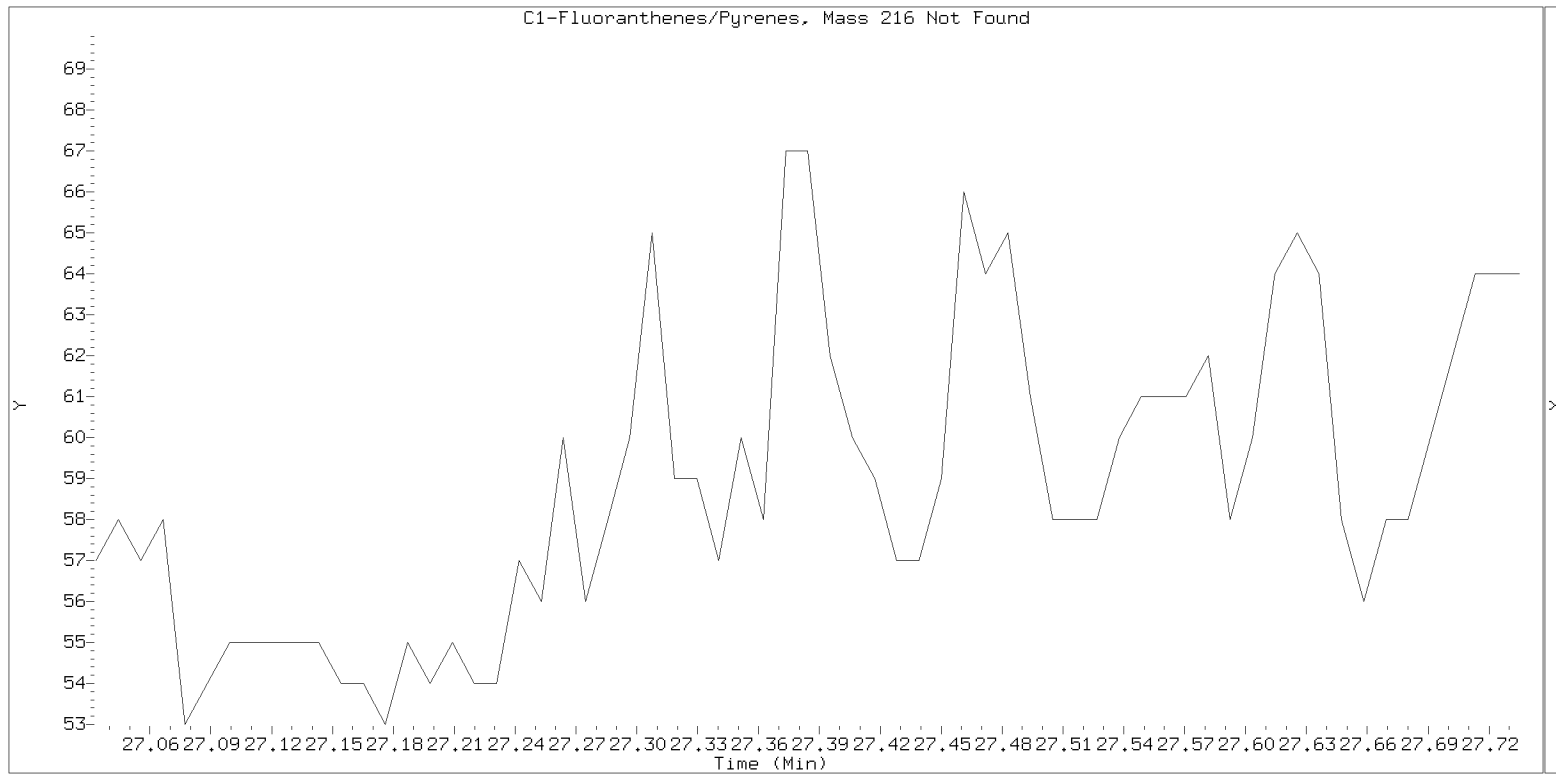
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

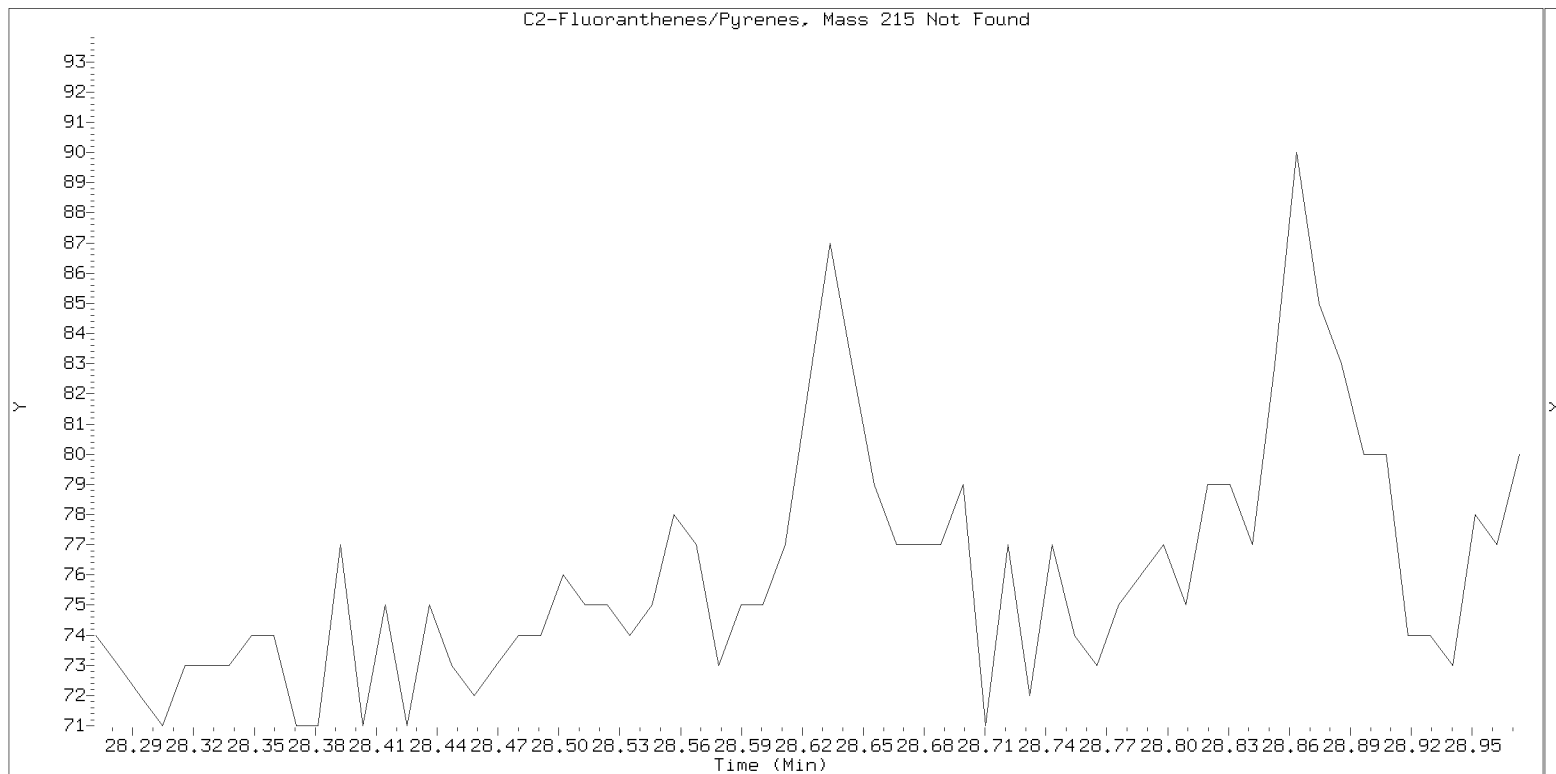
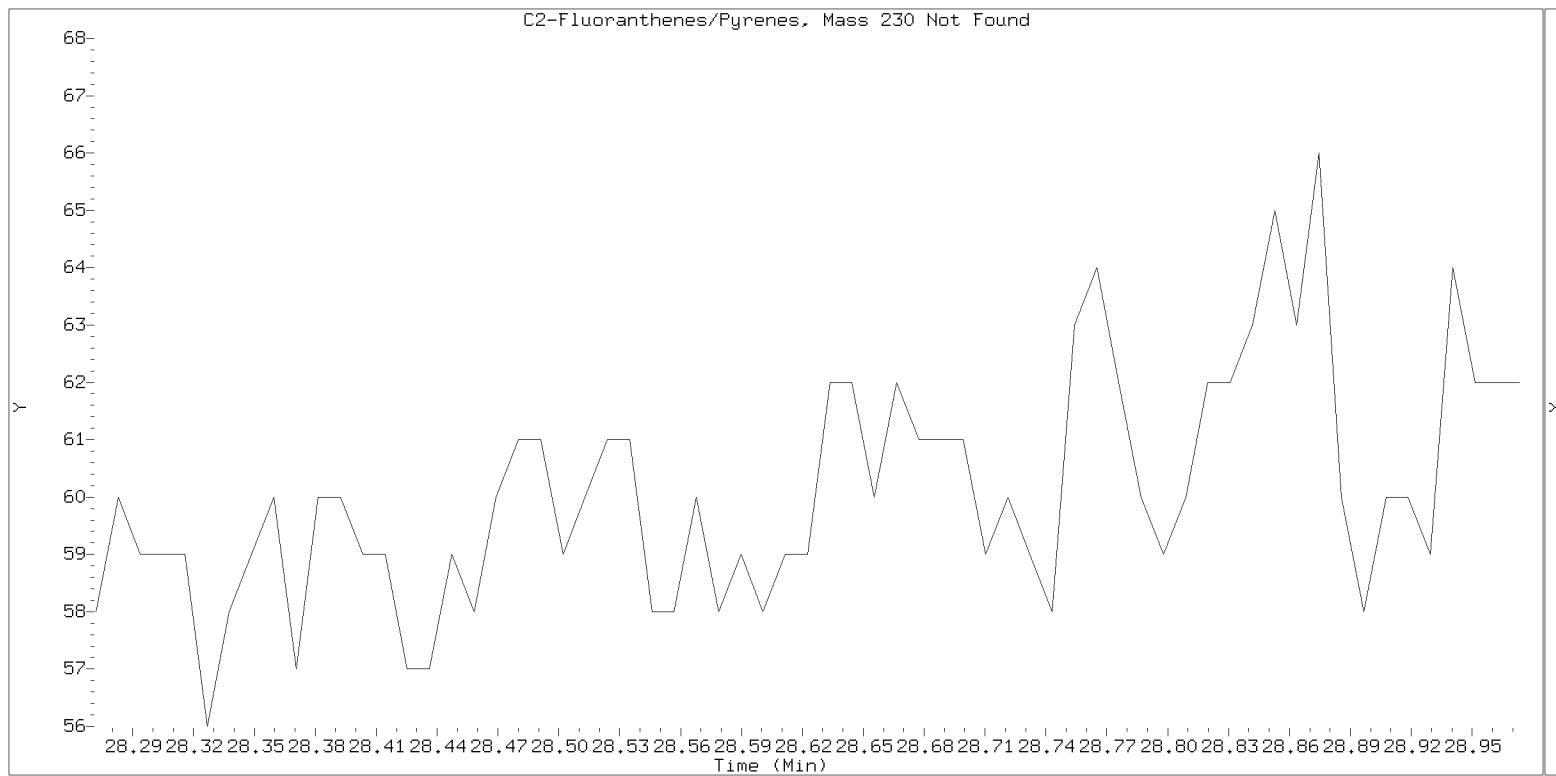
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

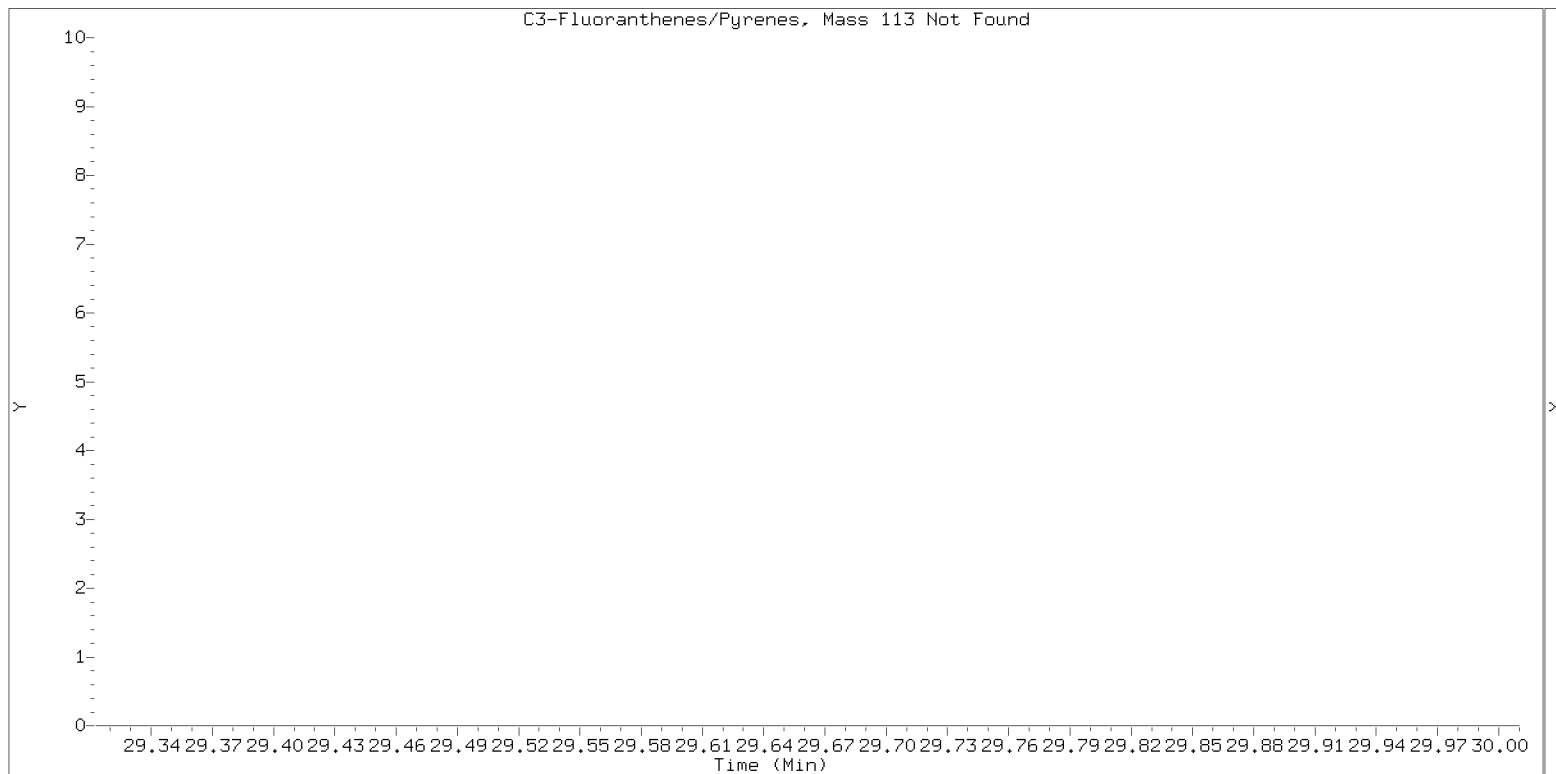
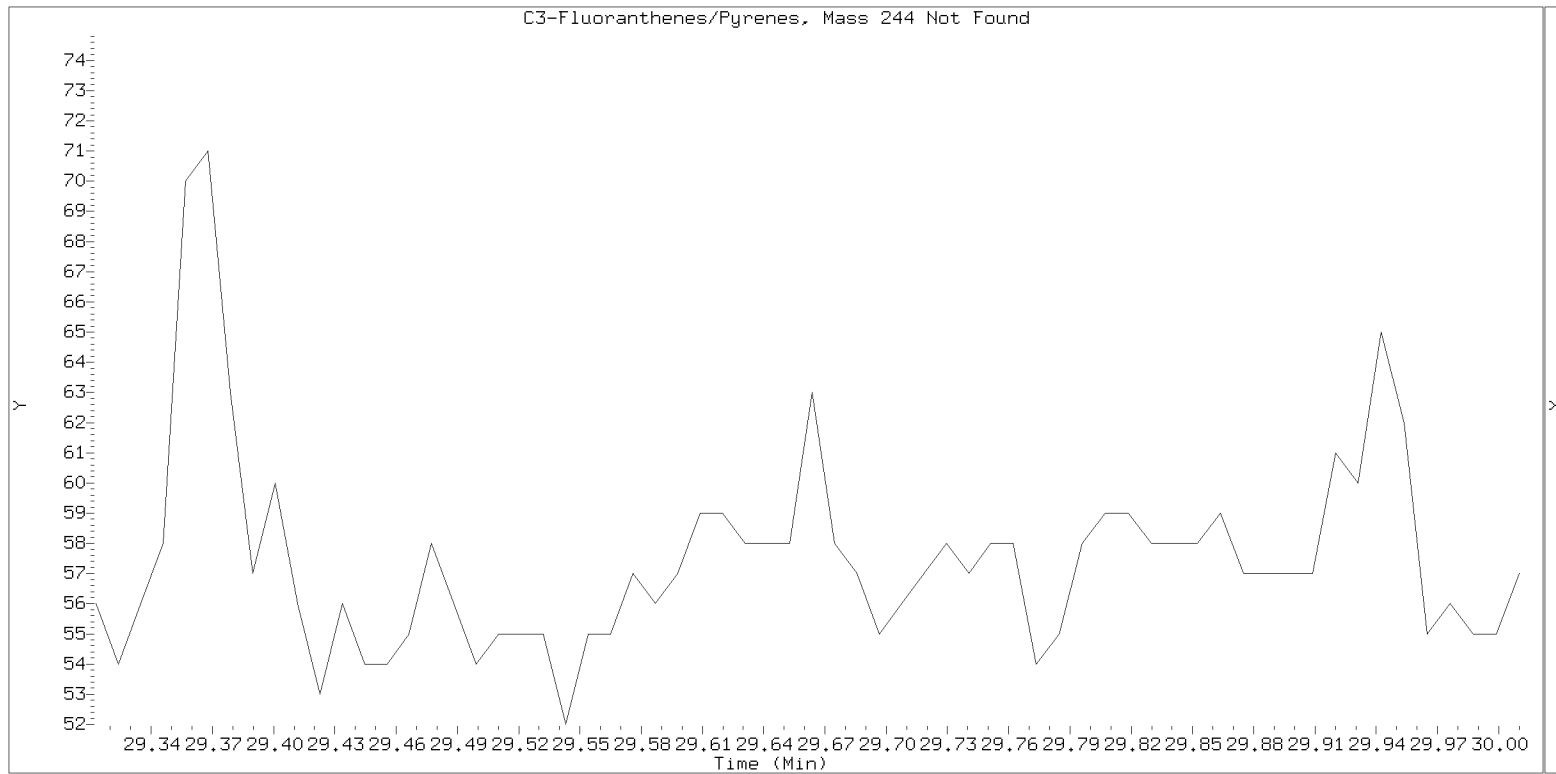
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

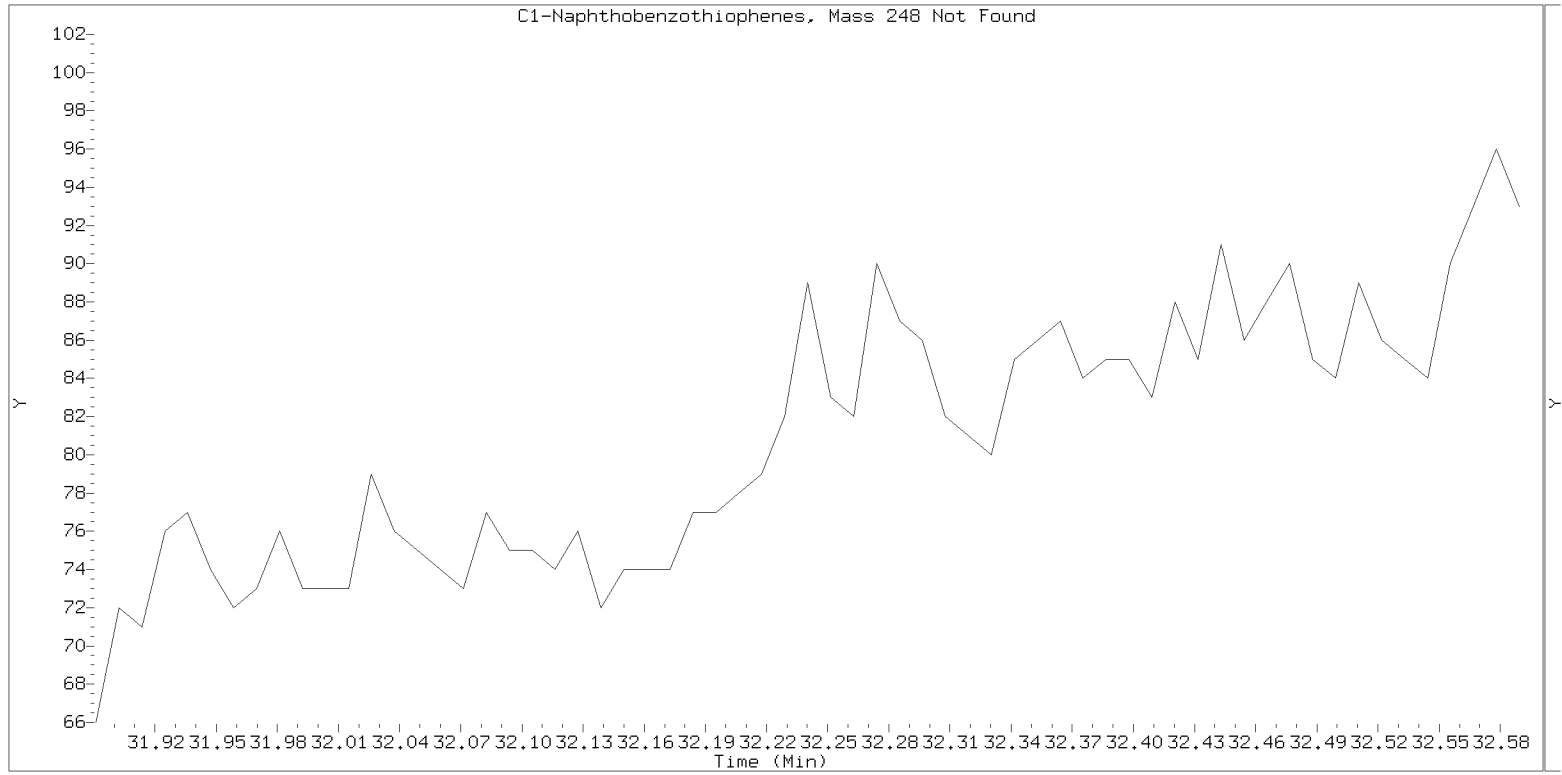
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

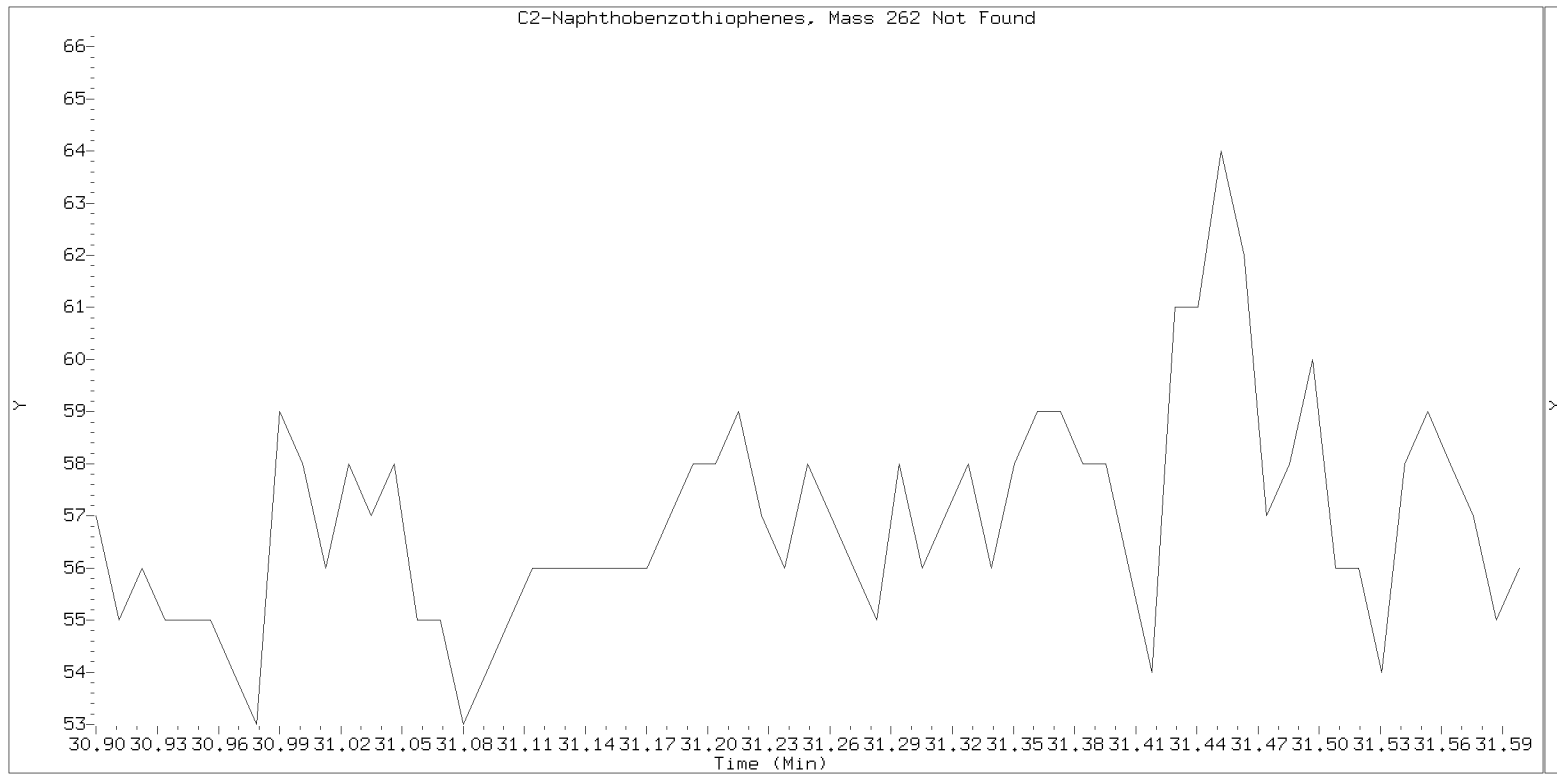
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

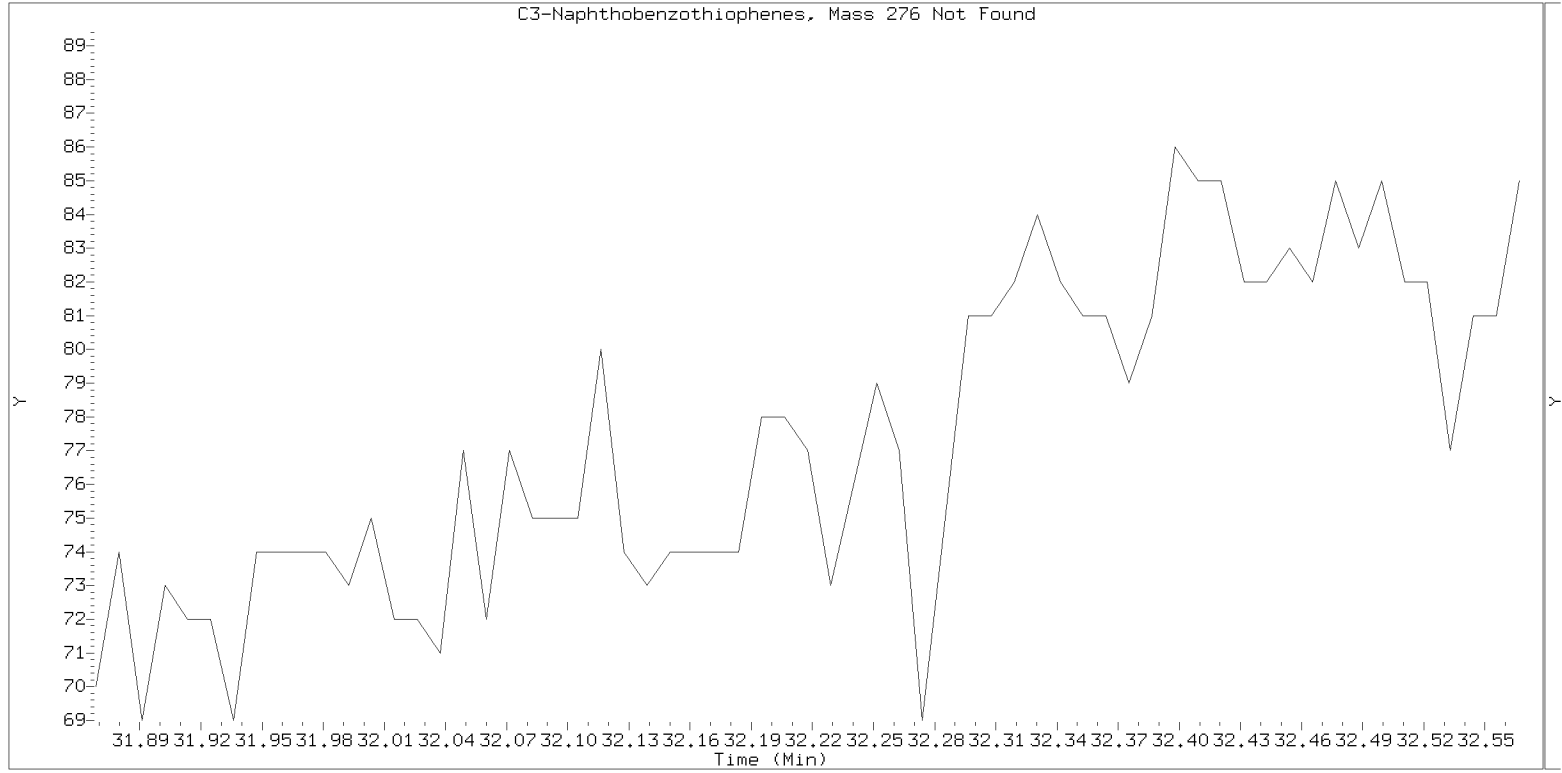
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

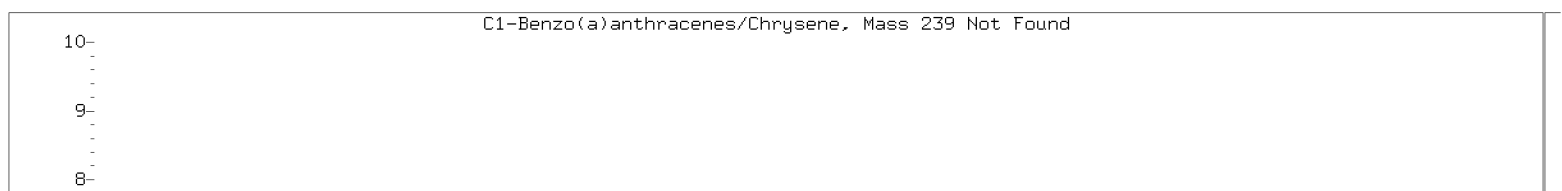
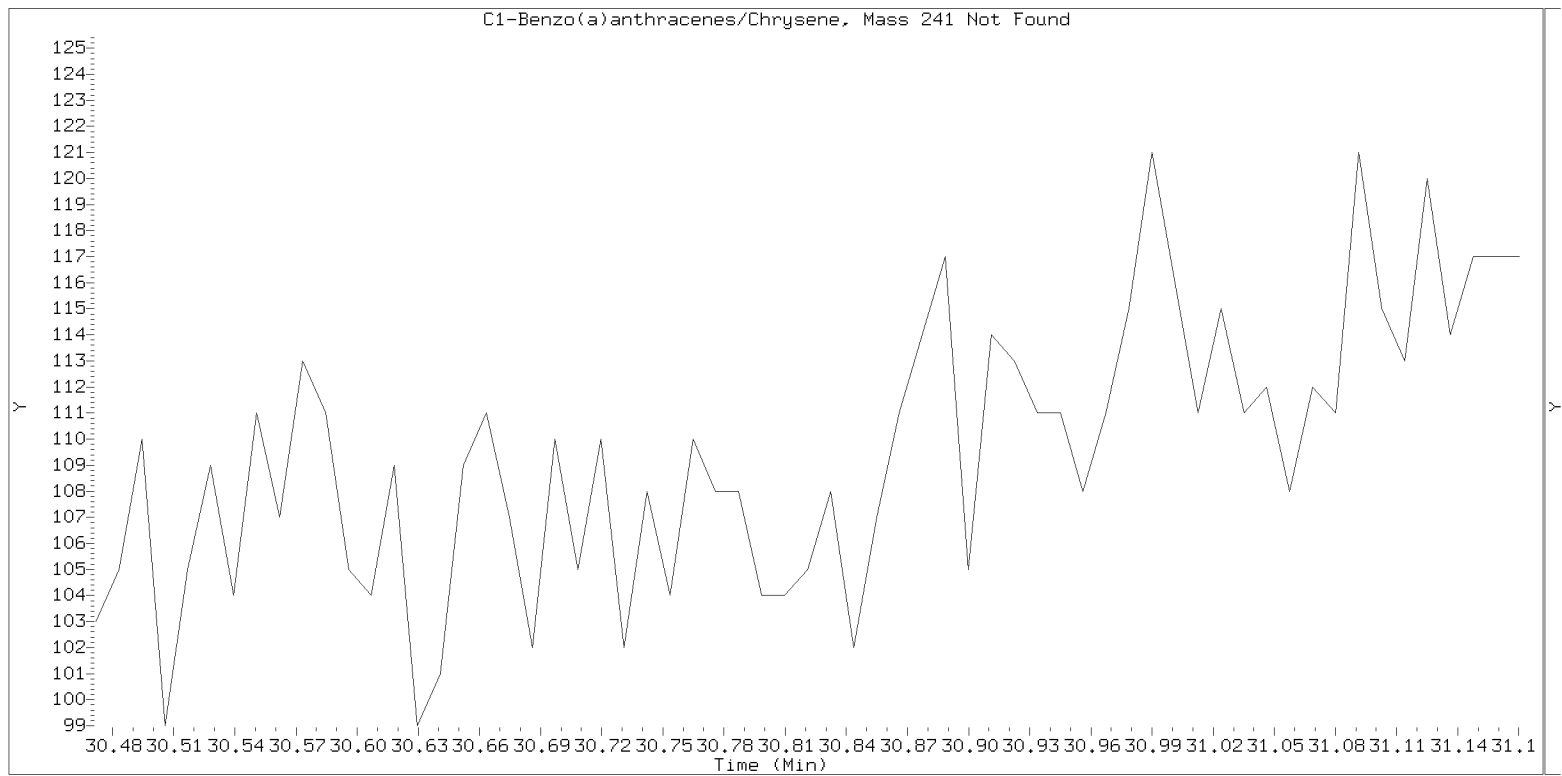
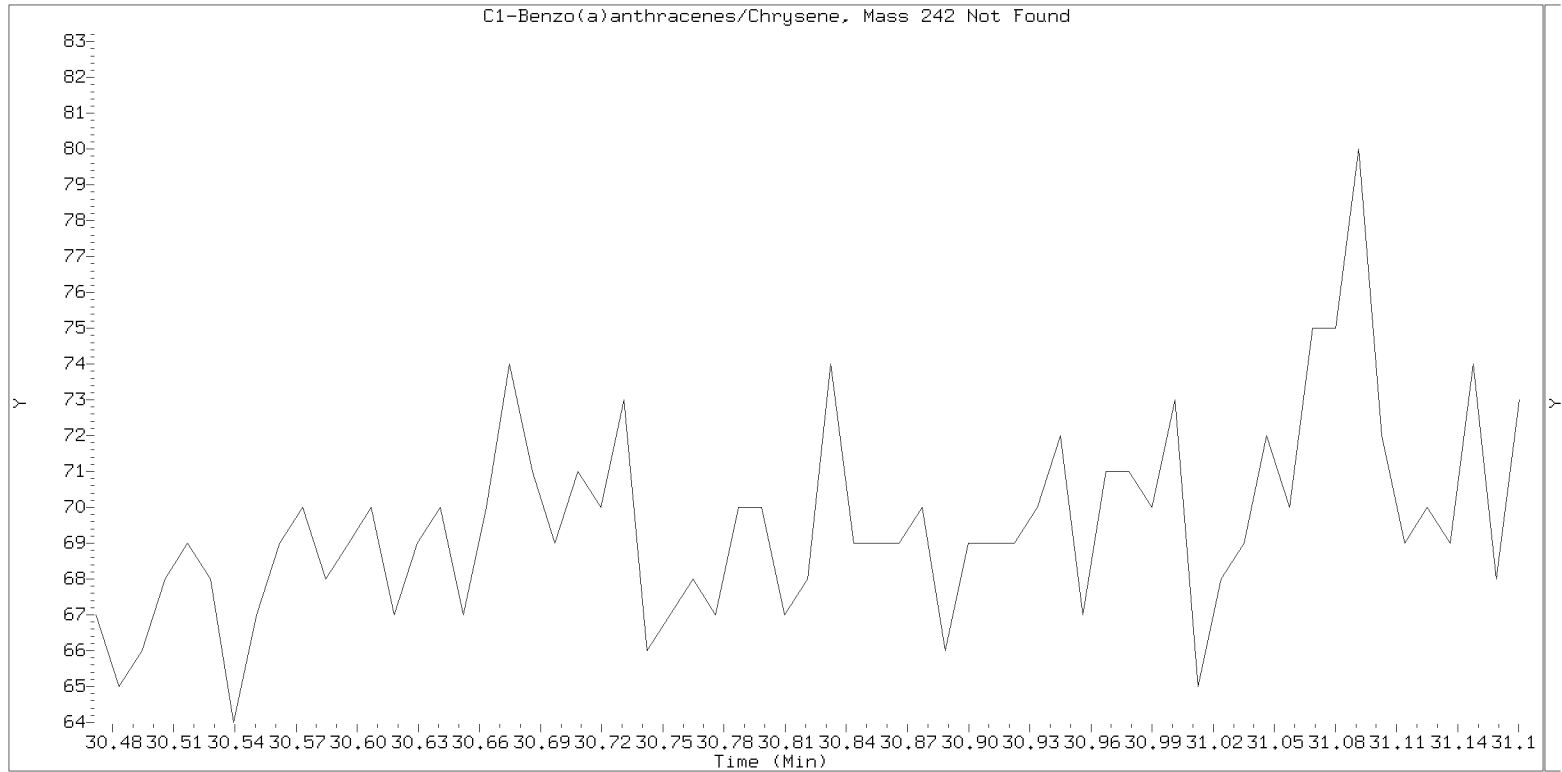
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

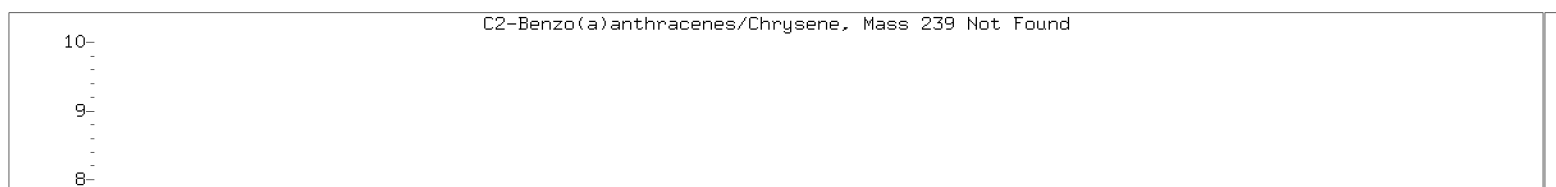
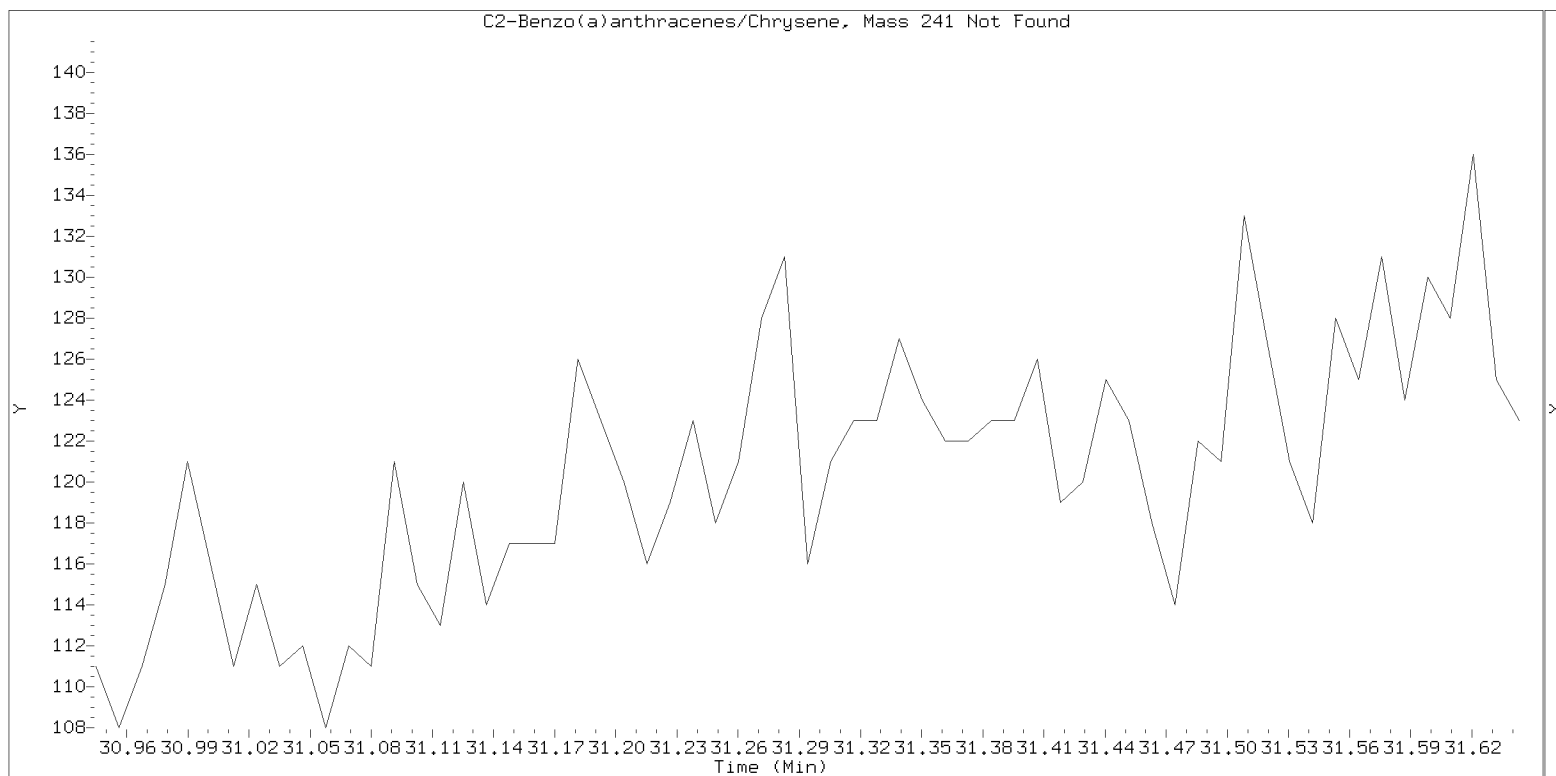
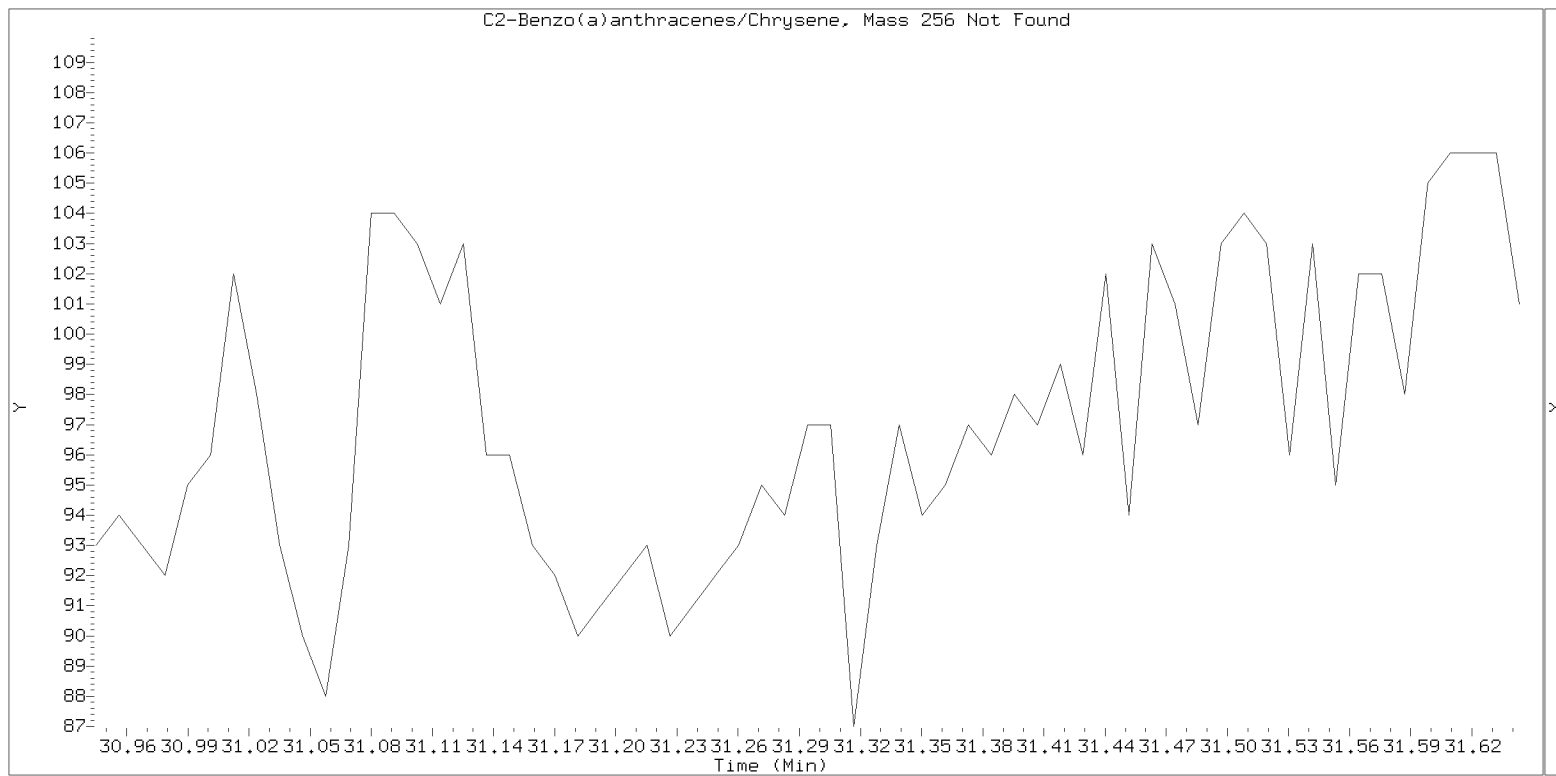
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

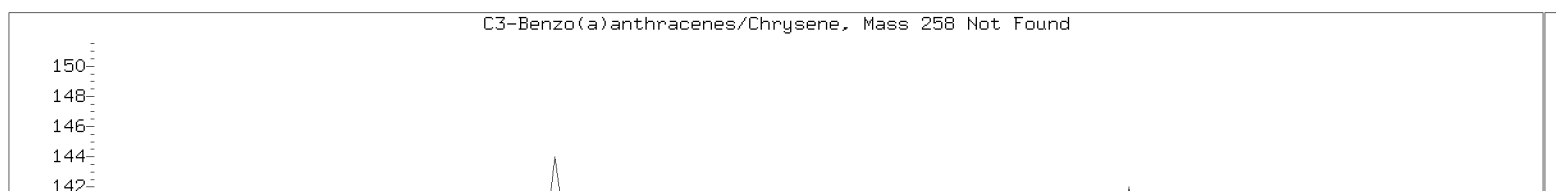
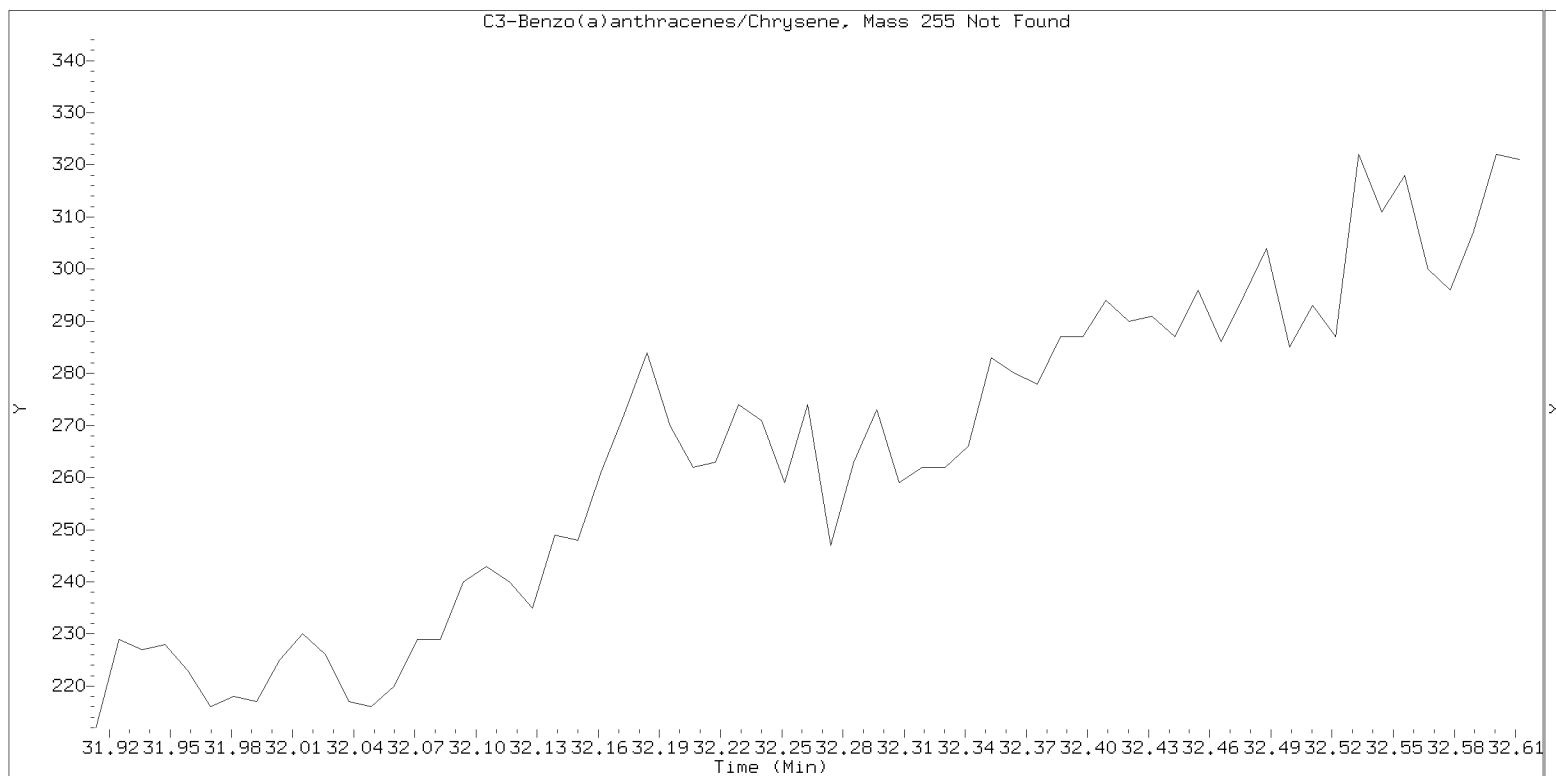
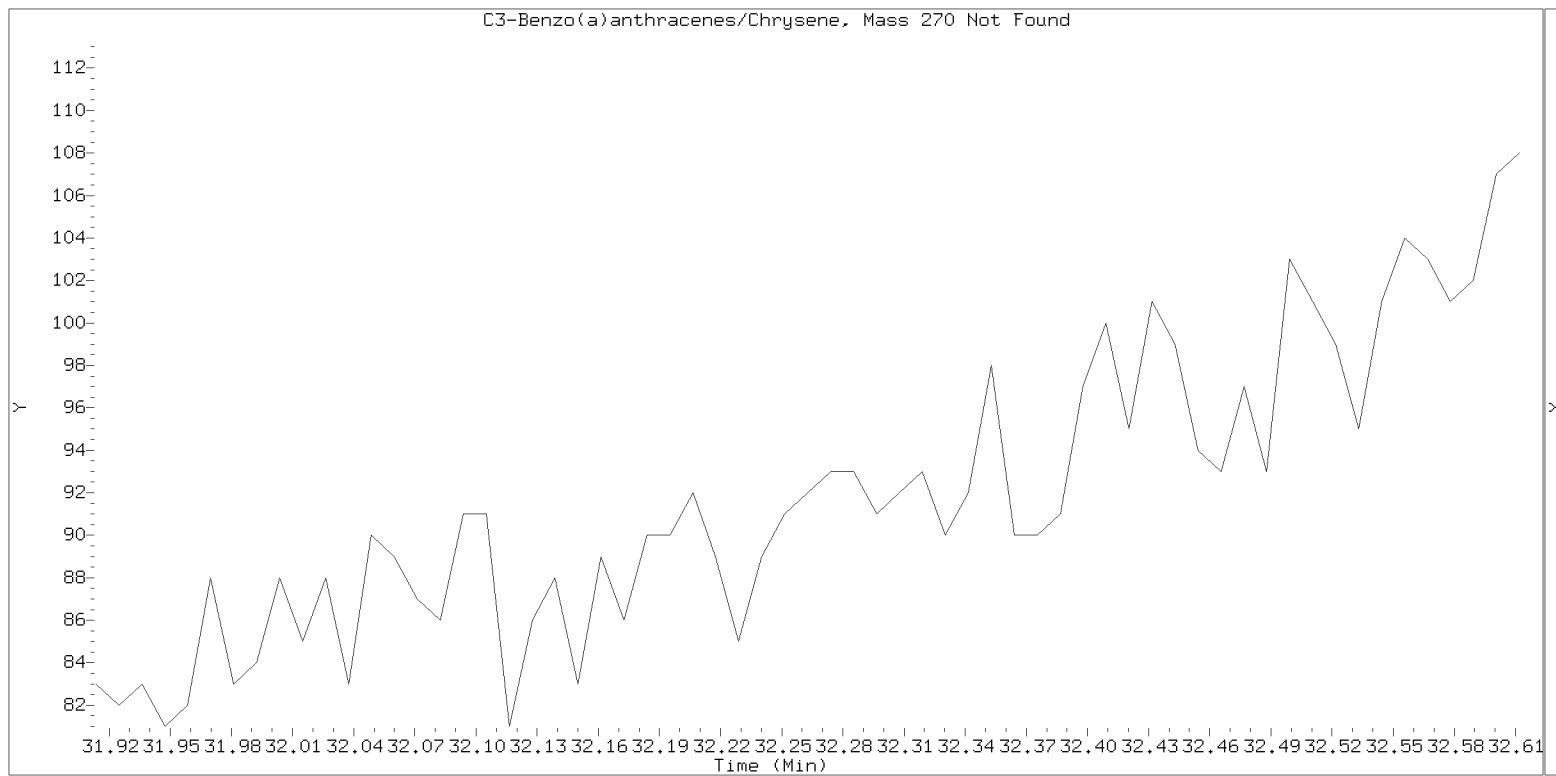
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

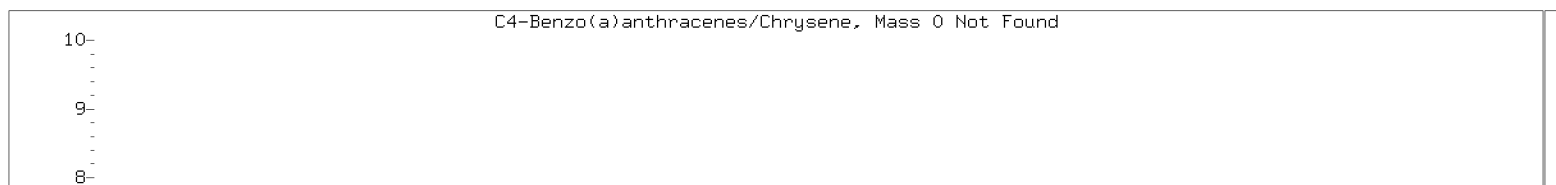
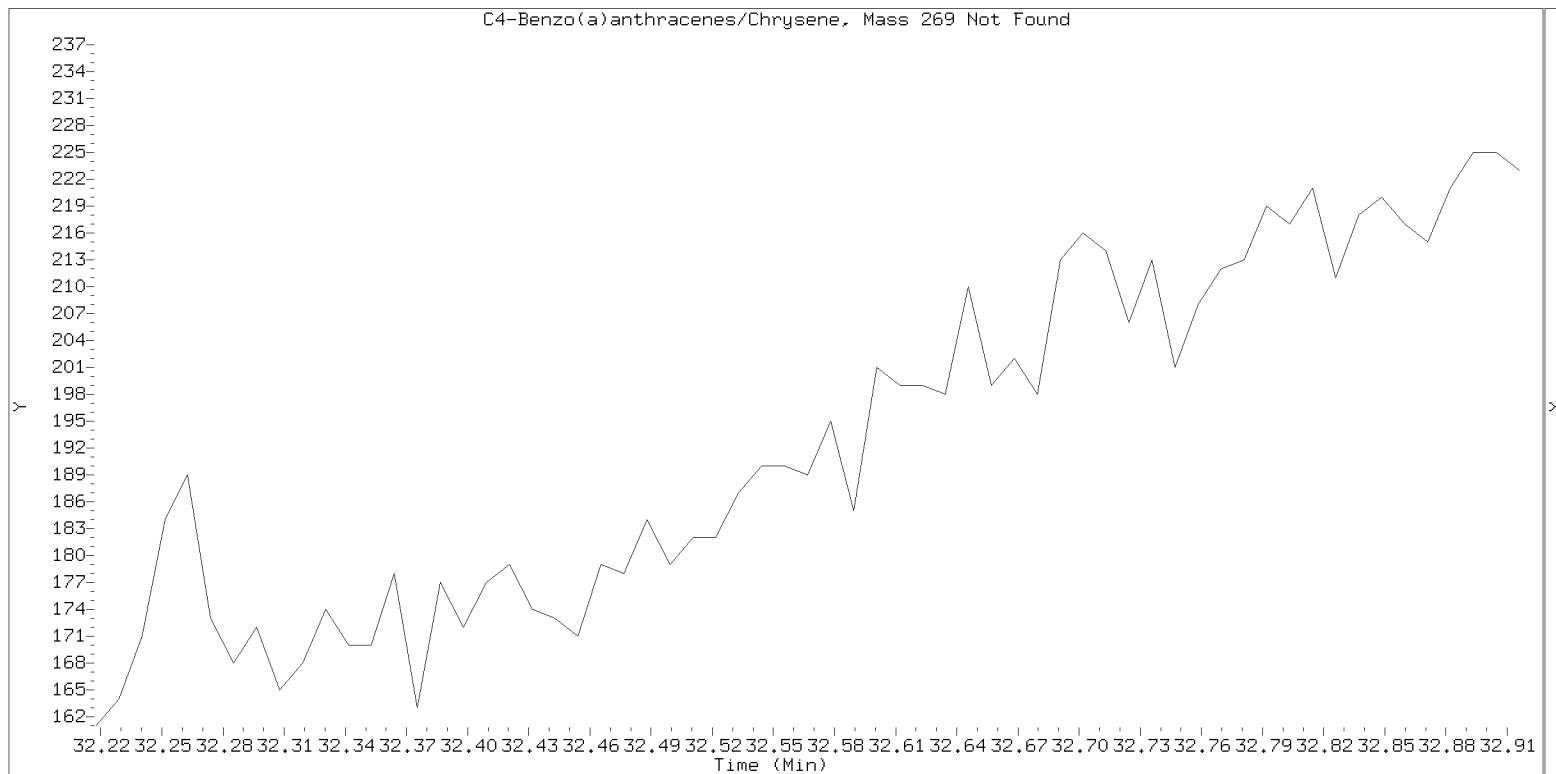
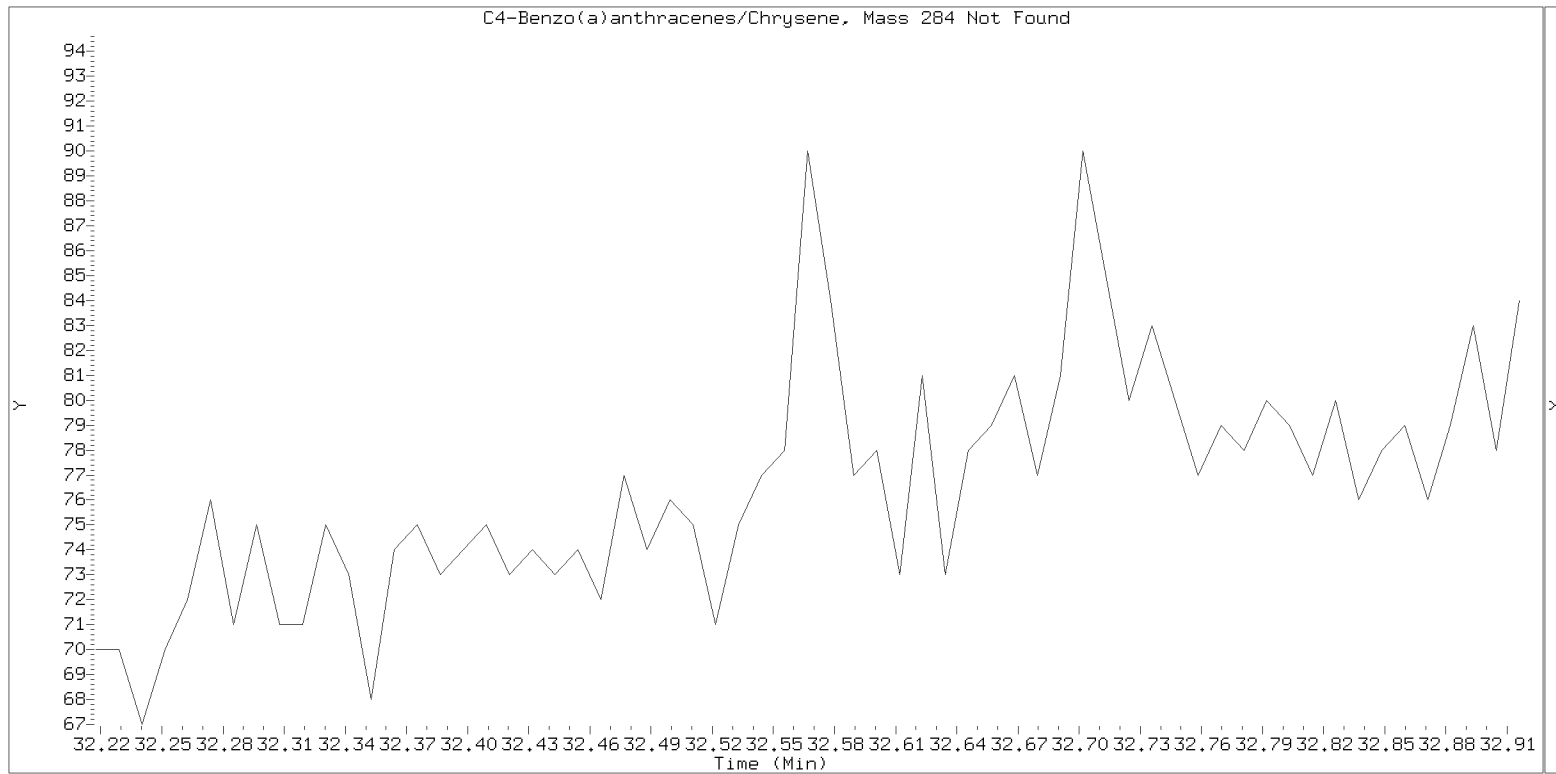
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

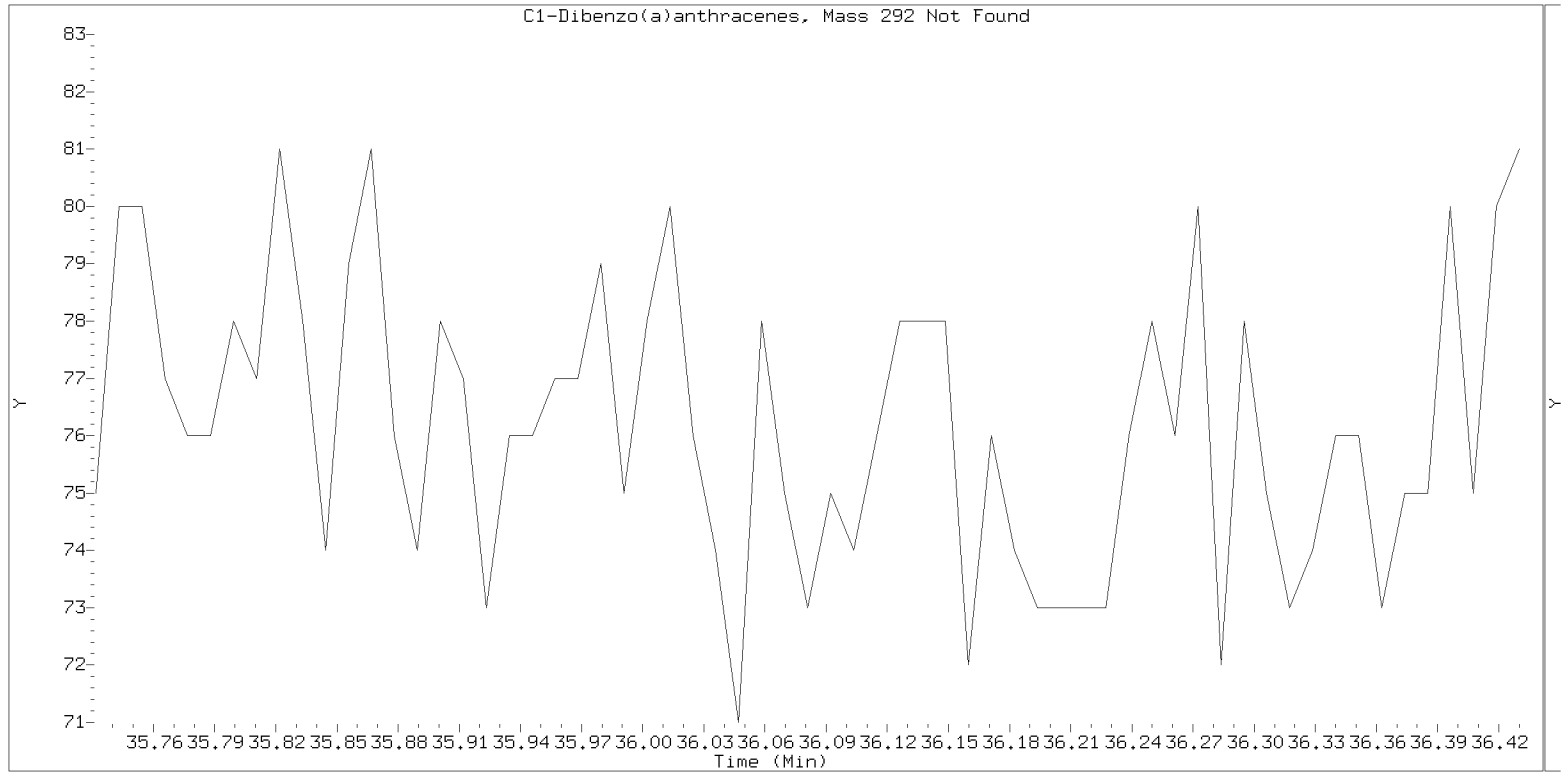
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

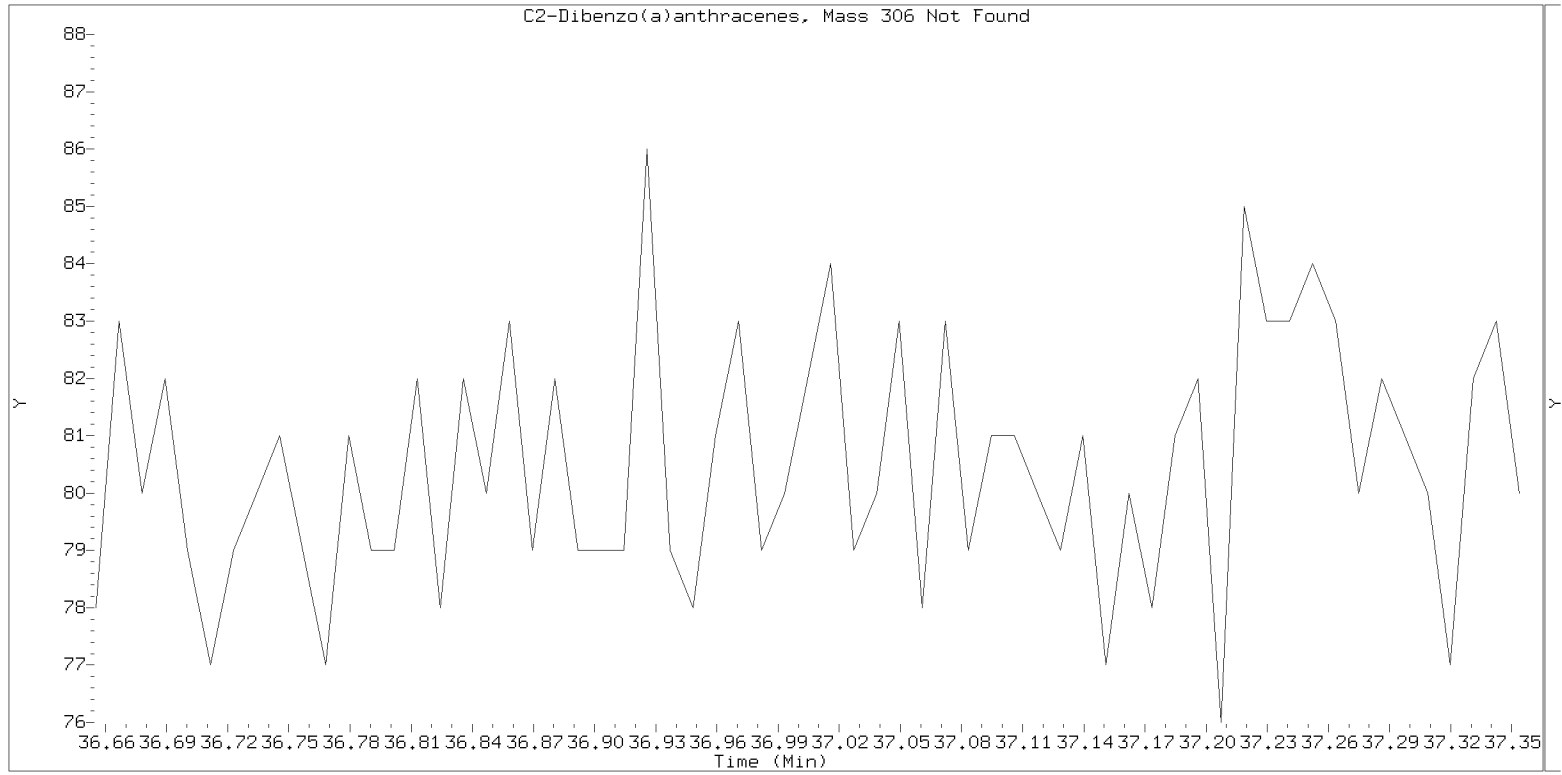
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

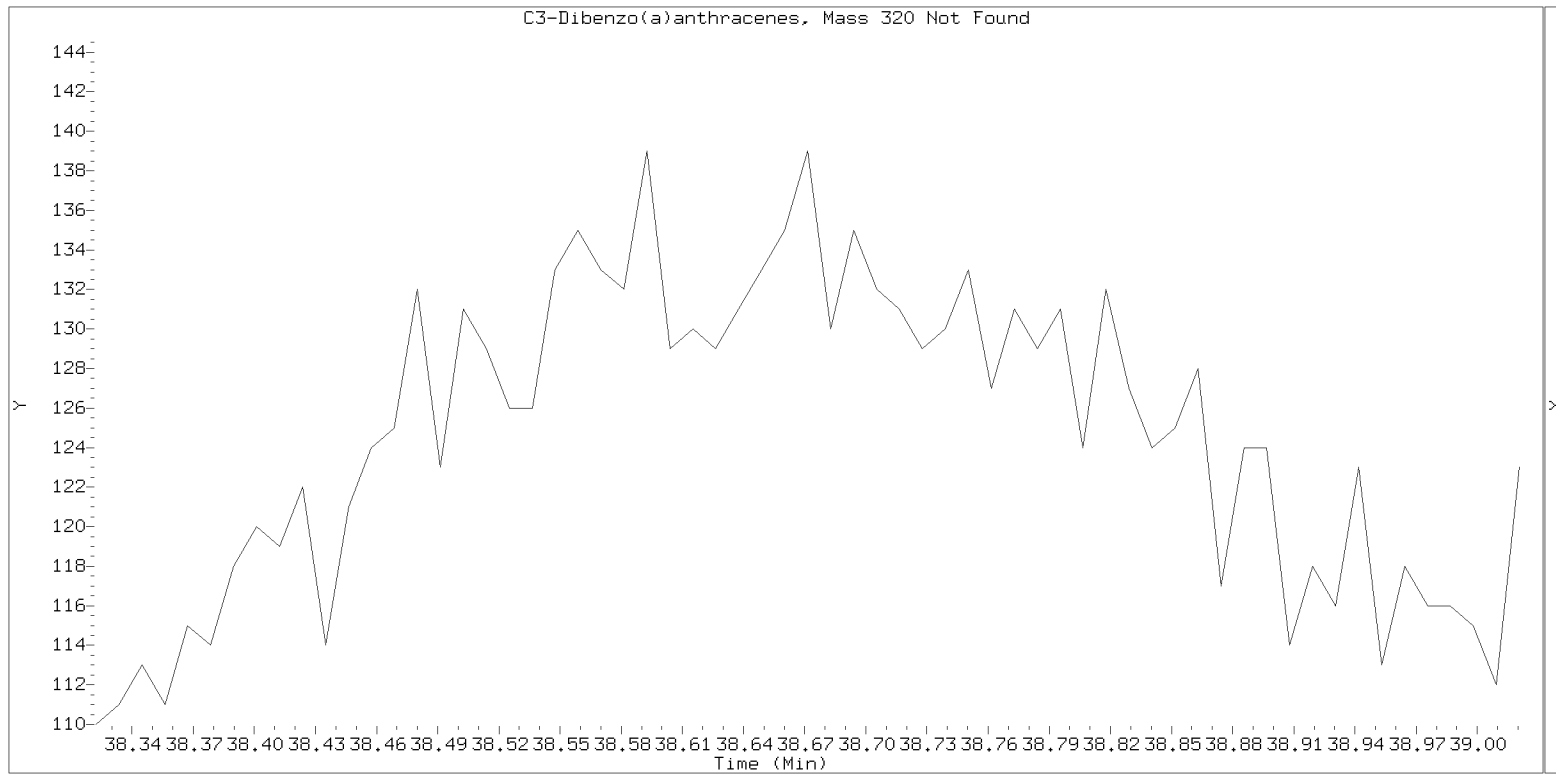
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111016S.D

Lab ID: 20J0385-01

nt14.i, SIM.b\ALKYLRANGE.m, 10-NOV-2020 23:40





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
Butyl Tins

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-01 E

SDG: 20J0385

Sampled: 10/26/20 11:45

Prepared: 11/02/20 14:15

File ID: NT820111205.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 11/12/20 11:34

Batch: BIJ0840

Sequence: SIK0176

Initial/Final: 100 mL / 0.5 mL

Instrument: NT8

Column: RXI-17Sil ms

Calibration: DG00090

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
36643-28-4	Tributyltin Ion	1	0.193	U	0.043	0.193

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
Tripentyltin	2.2589	1.62	71.7	30 - 160	
Tripropyltin	2.1873	1.34	61.4	30 - 160	

Data File: \\target\share\chem3\nt8.1\20201112.6\NT820111205.D

Date: 12-NOV-2020 11:34

Client ID:

Sample Info: 20J0385-01

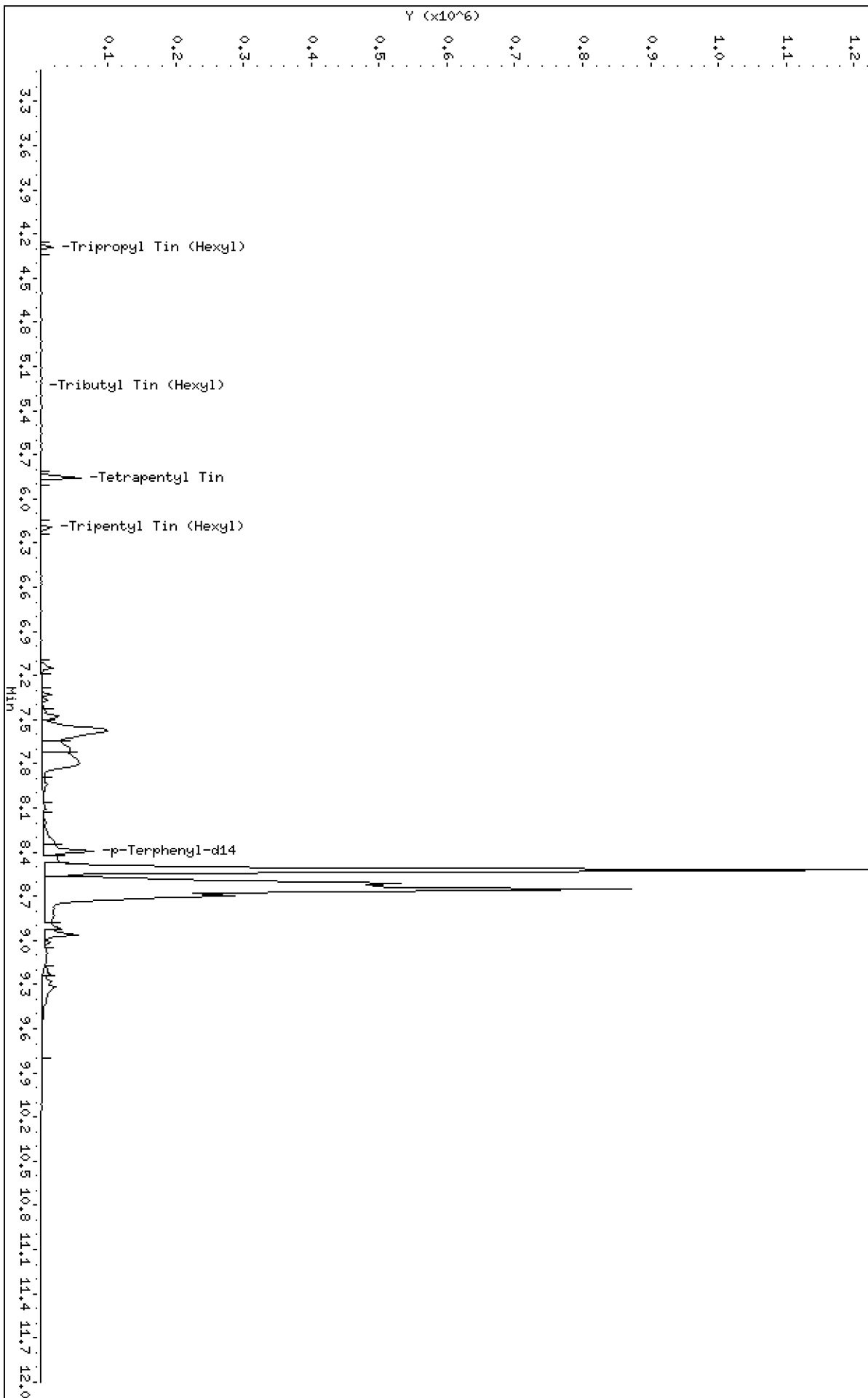
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20201112.6\NT820111205.D



Date : 12-NOV-2020 11:34

Client ID:

Instrument: nt8.i

Sample Info: 20J0385-01

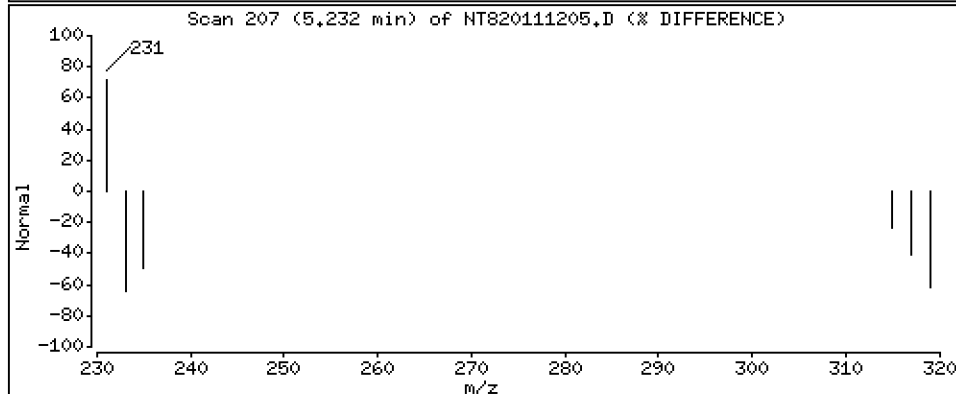
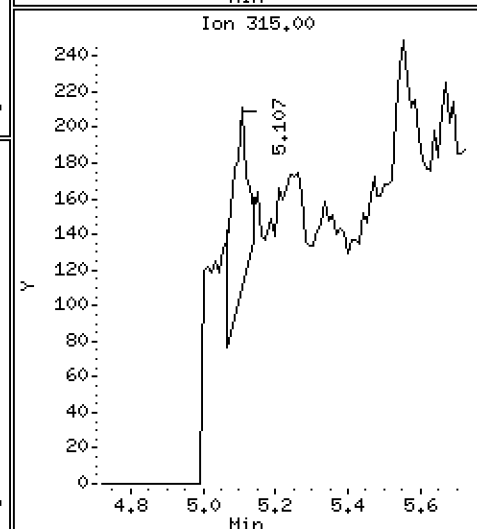
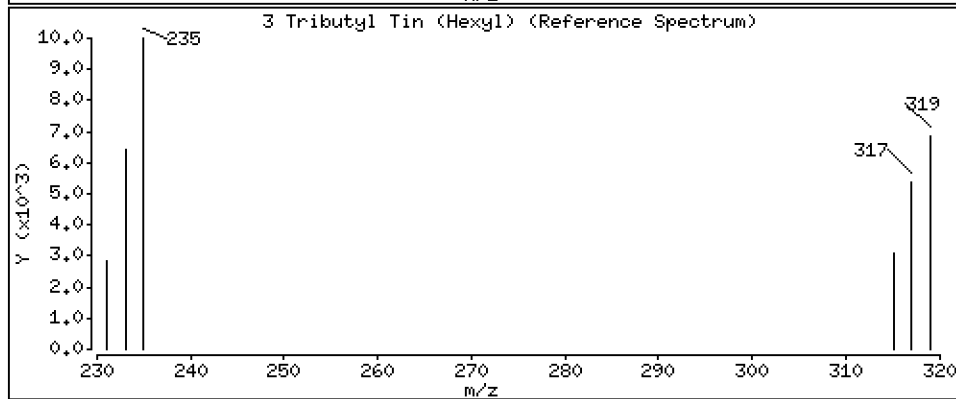
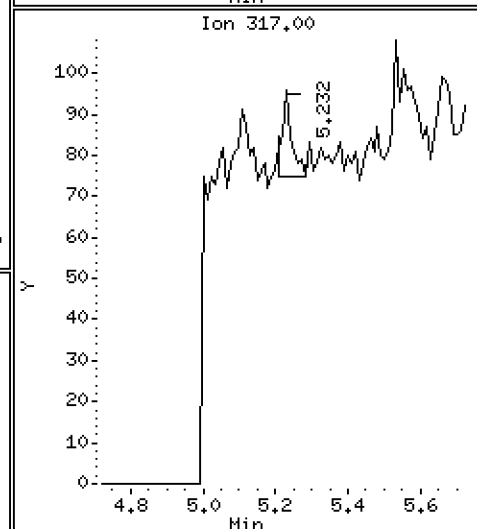
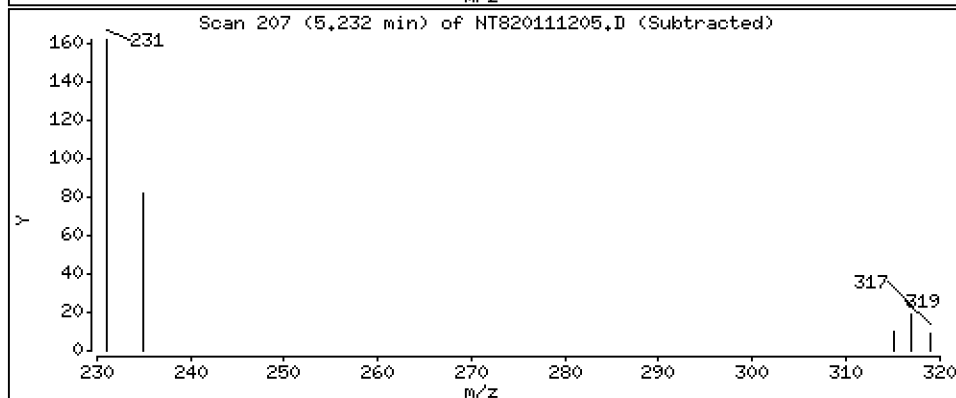
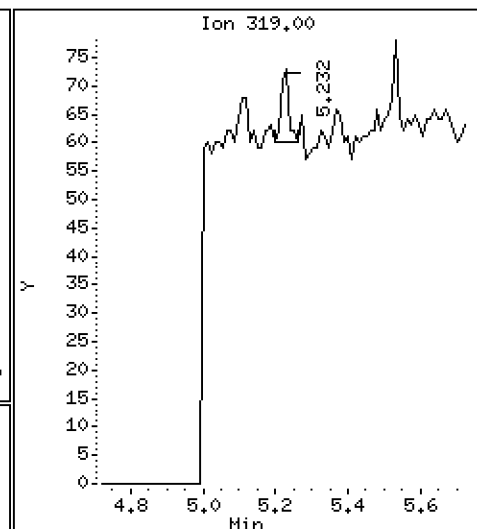
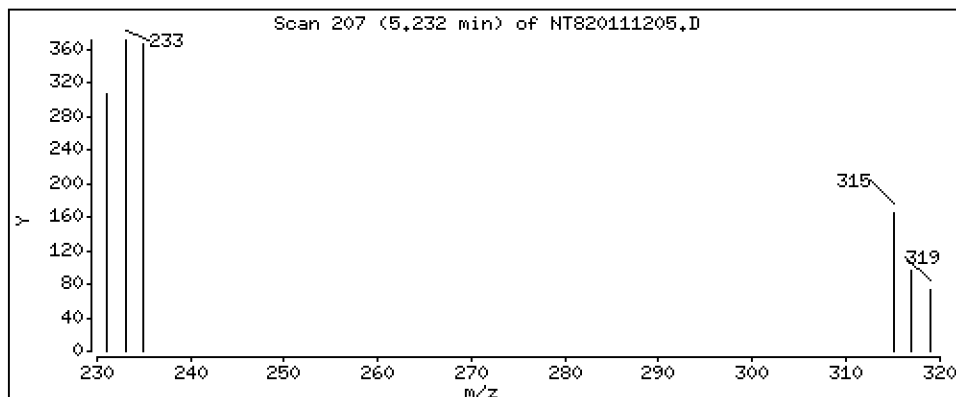
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,25

3 Tributyl Tin (Hexyl)

Concentration: 0,0009494 ug/mL



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20201112.b\NT820111205.D
 Lab Smp Id: 20J0385-01
 Inj Date : 12-NOV-2020 11:34
 Operator : JZ Inst ID: nt8.i
 Smp Info : 20J0385-01
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Meth Date : 12-Nov-2020 12:00 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.294	4.263	(0.733)	9707	0.36109	0.3611
2 Tetrabutyl Tin	289		Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319		5.231	5.221	(0.893)	18	9e-004	0.0009494
* 4 Tetrapentyl Tin	333		5.856	5.856	(1.000)	59879	2.00000	
5 Dibutyl Tin (Hexyl)	347		Compound Not Detected.					
\$ 6 Tripentyl Tin (Hexyl)	347		6.194	6.194	(0.738)	6315	0.40675	0.4068
7 Butyl Tin (Hexyl)	347		Compound Not Detected.					
* 8 p-Terphenyl-d14	244		8.396	8.396	(1.000)	44717	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 12-NOV-2020
 Lab File ID: NT820111205.D Calibration Time: 10:22
 Lab Smp Id: 20J0385-01
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	59879	9.33
8 p-Terphenyl-d14	45248	22624	90496	44717	-1.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	5.86	5.36	6.36	5.86	0.00
8 p-Terphenyl-d14	8.40	7.90	8.90	8.40	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 - NT820111205.D

Lab ID: 20J0385-01

nt8.i, 20201112.b\TBT200730.m, 12-NOV-2020 11:34

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.733	0.728	0.0053	Tripropyl Tin (Hexyl)

RRT check based on Ccal File: NT820111202.D

On Column LOD for nt8.i, 20201112.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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



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

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-02 F SDG: 20J0385
Sampled: 10/26/20 11:30 Prepared: 10/29/20 10:56 File ID: NT1420111017.D
% Solids: Preparation: EPA 3520C (Liq Liq) Analyzed: 11/11/20 00:28
Batch: BIJ0841 Sequence: SIK0139 Initial/Final: 500 mL / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
493-02-7	trans-Decalin	1	0.100	U	0.007	0.100
493-01-6	cis-Decalin	1	0.100	U	0.007	0.100
91-20-3	Naphthalene	1	0.100	U	0.011	0.100
90-12-0	1-Methylnaphthalene	1	0.100	U	0.010	0.100
91-57-6	2-Methylnaphthalene	1	0.100	U	0.010	0.100
92-52-4	Biphenyl	1	0.100	U	0.012	0.100
581-42-0	2,6-Dimethylnaphthalene	1	0.100	U	0.013	0.100
208-96-8	Acenaphthylene	1	0.100	U	0.006	0.100
83-32-9	Acenaphthene	1	0.100	U	0.011	0.100
132-64-9	Dibenzofuran	1	0.100	U	0.009	0.100
2245-38-7	2,3,5-Trimethylnaphthalene	1	0.100	U	0.008	0.100
86-73-7	Fluorene	1	0.100	U	0.007	0.100
95-15-8	Benzo(b)thiophene	1	0.100	U	0.009	0.100
85-01-8	Phenanthrene	1	0.100	U	0.009	0.100
120-12-7	Anthracene	1	0.100	U	0.025	0.100
86-74-8	Carbazole	1	0.100	U	0.028	0.100
832-69-9	1-Methylphenanthrene	1	0.100	U	0.005	0.100
206-44-0	Fluoranthene	1	0.100	U	0.007	0.100
132-65-0	Dibenzothiophene	1	0.100	U	0.021	0.100
129-00-0	Pyrene	1	0.100	U	0.014	0.100
56-55-3	Benzo(a)anthracene	1	0.100	U	0.017	0.100
218-01-9	Chrysene	1	0.100	U	0.010	0.100
205-99-2	Benzo(b)fluoranthene	1	0.100	U	0.010	0.100
205-82-3	Benzo(j)fluoranthene	1	0.100	U	0.038	0.100
207-08-9	Benzo(k)fluoranthene	1	0.100	U	0.010	0.100
	Benzofluoranthenes, Total	1	0.200	U	0.085	0.200
197-97-2	Benzo(e)pyrene	1	0.100	U	0.014	0.100
50-32-8	Benzo(a)pyrene	1	0.100	U	0.022	0.100
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.100	U	0.014	0.100
53-70-3	Dibenzo(a,h)anthracene	1	0.100	U	0.013	0.100
191-24-2	Benzo(g,h,i)perylene	1	0.100	U	0.009	0.100



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

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-02 F SDG: 20J0385
Sampled: 10/26/20 11:30 Prepared: 10/29/20 10:56 File ID: NT1420111017.D
% Solids: Preparation: EPA 3520C (Liq Liq) Analyzed: 11/11/20 00:28
Batch: BIJ0841 Sequence: SIK0139 Initial/Final: 500 mL / 0.5 mL
Instrument: NT14 Column: ZB-5MS Calibration: DJ00029
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
1985-5-0	Perylene	1	0.100	U	0.032	0.100
239-35-0	Benzo(b)naphtho(2,1-d)thiophene	1	0.100	U	0.100	0.100

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
Naphthalene-d8	3.0000	2.13	70.9	30 - 160	
Acenaphthene-d10	3.0000	2.10	70.0	30 - 160	
Phenanthrene-d10	3.0000	2.73	90.9	30 - 160	
Chrysene-d12	3.0000	2.74	91.3	30 - 160	
Perylene-d12	3.0000	2.33	77.8	30 - 160	

Data File: \\target\share\chem3\nt14,1\20201110,6\NT1420111017.D

Date : 11-NOV-2020 00:28

Client ID:

Sample Info: 20J0385-02

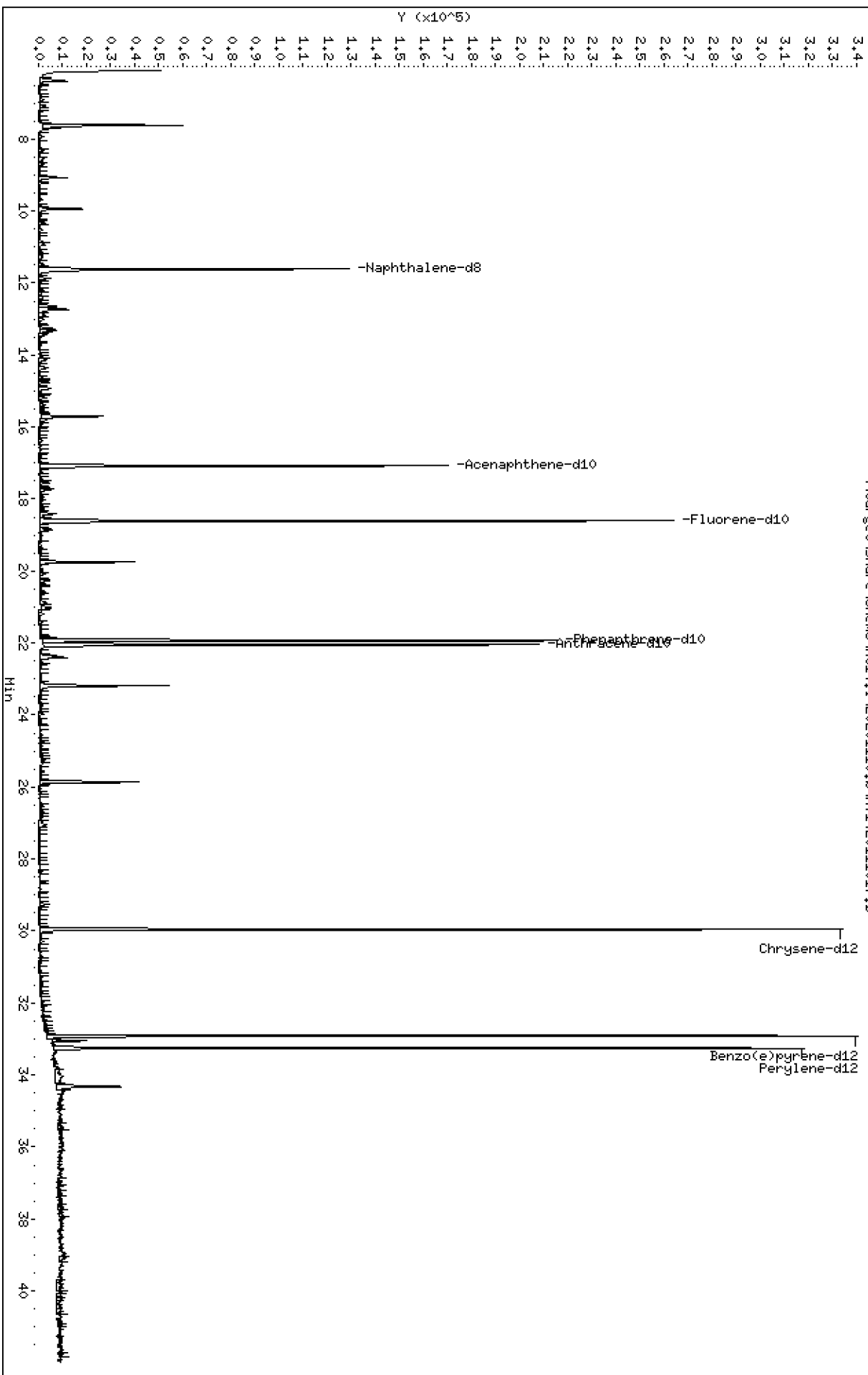
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201110,6\NT1420111017.D



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\NT1420111017.D
 Lab Smp Id: 20J0385-02
 Inj Date : 11-NOV-2020 00:28
 Operator : VTS
 Smp Info : 20J0385-02
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Meth Date : 12-Nov-2020 08:02 yev
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 15
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

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		11.619	11.630	(0.624)	217448	2.12822	2.128(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		17.081	17.092	(0.918)	128908	2.10106	2.101(R)
22 Acenaphthene	153							
23 Dibenzofuran	168							
24 1,6,7-Trimethylnaphthalene	170							
* 25 Fluorene-d10	176		18.610	18.621	(1.000)	250409	2.00000	
26 Fluorene	166							
30 Dibenzothiophene	184							
\$ 35 Phenanthrene-d10	188		21.930	21.941	(0.995)	313092	2.72822	2.728(R)
36 Phenanthrene	178							
* 250 Anthracene-d10	188		22.051	22.062	(1.000)	239605	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		29.952	29.952	(0.910)	308935	2.73984	2.740(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		32.914	32.914	(1.000)	330711	2.00000	
64 Benzo(e)pyrene	252		Compound Not Detected.					
66 Benzo(a)pyrene	252		Compound Not Detected.					
\$ 67 Perylene-d12	264		33.252	33.252	(1.010)	319073	2.33328	2.333(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: 10-NOV-2020
 Lab File ID: NT1420111017.D Calibration Time: 13:58
 Lab Smp Id: 20J0385-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: VTS
 Method File: \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Misc Info:

Test Mode:
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	314961	157481	629922	250409	-20.50
250 Anthracene-d10	299129	149565	598258	239605	-19.90
251 Benzo(e)pyrene-d1	453248	226624	906496	330711	-27.04

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.61	-0.06
250 Anthracene-d10	22.06	21.56	22.56	22.05	-0.05
251 Benzo(e)pyrene-d1	32.91	32.41	33.41	32.91	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 - NT1420111017.D

Lab ID: 20J0385-02

nt14.i, 20201110.b\ALKYLPNA.m, 11-NOV-2020 00:28

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: NT1420111004.D

On Column LOD for nt14.i, 20201110.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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



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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-02 F

SDG: 20J0385

Sampled: 10/26/20 11:30

Prepared: 10/29/20 10:56

File ID: NT1420111017S.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 11/11/20 00:28

Batch: BIJ0841

Sequence: SIK0158

Initial/Final: 500 mL / 0.5 mL

Instrument: NT14

Column: ZB-5MS

Calibration: DI00041

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
C1DEC	C1-Decalins	1	0.020	U		0.020
C2DEC	C2-Decalins	1	0.020	U		0.020
C3DEC	C3-Decalins	1	0.020	U		0.020
C4DEC	C4-Decalins	1	0.020	U		0.020
C1NAPH	C1-Naphthalenes	1	0.011	J		0.020
C2NAPH	C2-Naphthalenes	1	0.020	U		0.020
C3NAPH	C3-Naphthalenes	1	0.020	U		0.020
C4NAPH	C4-Naphthalenes	1	0.020	U		0.020
C1FLR	C1-Fluorenes	1	0.020	U		0.020
C4PHNANT	C4-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C1FLPYR	C1-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C2FLR	C2-Fluorenes	1	0.020	U		0.020
C3FLR	C3-Fluorenes	1	0.020	U		0.020
C1DBTPH	C1-Dibenzothiophenes	1	0.020	U		0.020
C2DBTPH	C2-Dibenzothiophenes	1	0.020	U		0.020
C3DBTPH	C3-Dibenzothiophenes	1	0.020	U		0.020
C4DBTPH	C4-Dibenzothiophenes	1	0.020	U		0.020
C1PHNANT	C1-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2PHNANT	C2-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C3PHNANT	C3-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2FLPYR	C2-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C3FLPYR	C3-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C4FLPYR	C4-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C1BAACYR	C1-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C2BAACYR	C2-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C3BAACYR	C3-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C4BAACYR	C4-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C1BZTPH	C1-Benzothiophenes	1	0.020	U		0.020
C2BZTPH	C2-Benzothiophenes	1	0.020	U		0.020
C3BZTPH	C3-Benzothiophenes	1	0.020	U		0.020
C1NPBTP	C1-Naphthobenzothiophenes	1	0.020	U		0.020



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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-02 F

SDG: 20J0385

Sampled: 10/26/20 11:30

Prepared: 10/29/20 10:56

File ID: NT1420111017S.D

% Solids:

Preparation: EPA 3520C (Liq Liq)

Analyzed: 11/11/20 00:28

Batch: BIJ0841

Sequence: SIK0158

Initial/Final: 500 mL / 0.5 mL

Instrument: NT14

Column: ZB-5MS

Calibration: DI00041

Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
C2NPBTP	C2-Naphthobenzothiophenes	1	0.020	U		0.020
C3NPBTP	C3-Naphthobenzothiophenes	1	0.020	U		0.020
C4NPBTP	C4-Naphthobenzothiophenes	1	0.020	U		0.020
C1DBA	C1-Dibenzo(a)anthracenes	1	0.020	U		0.020
C2DBA	C2-Dibenzo(a)anthracenes	1	0.020	U		0.020
C3DBA	C3-Dibenzo(a)anthracenes	1	0.020	U		0.020

Data File: \\target\share\chem3\nt14.1\20201110.16\SIM.B\NT1420111017S.D

Date : 11-NOV-2020 00:28

Client ID:

Sample Info: 20J0385-02

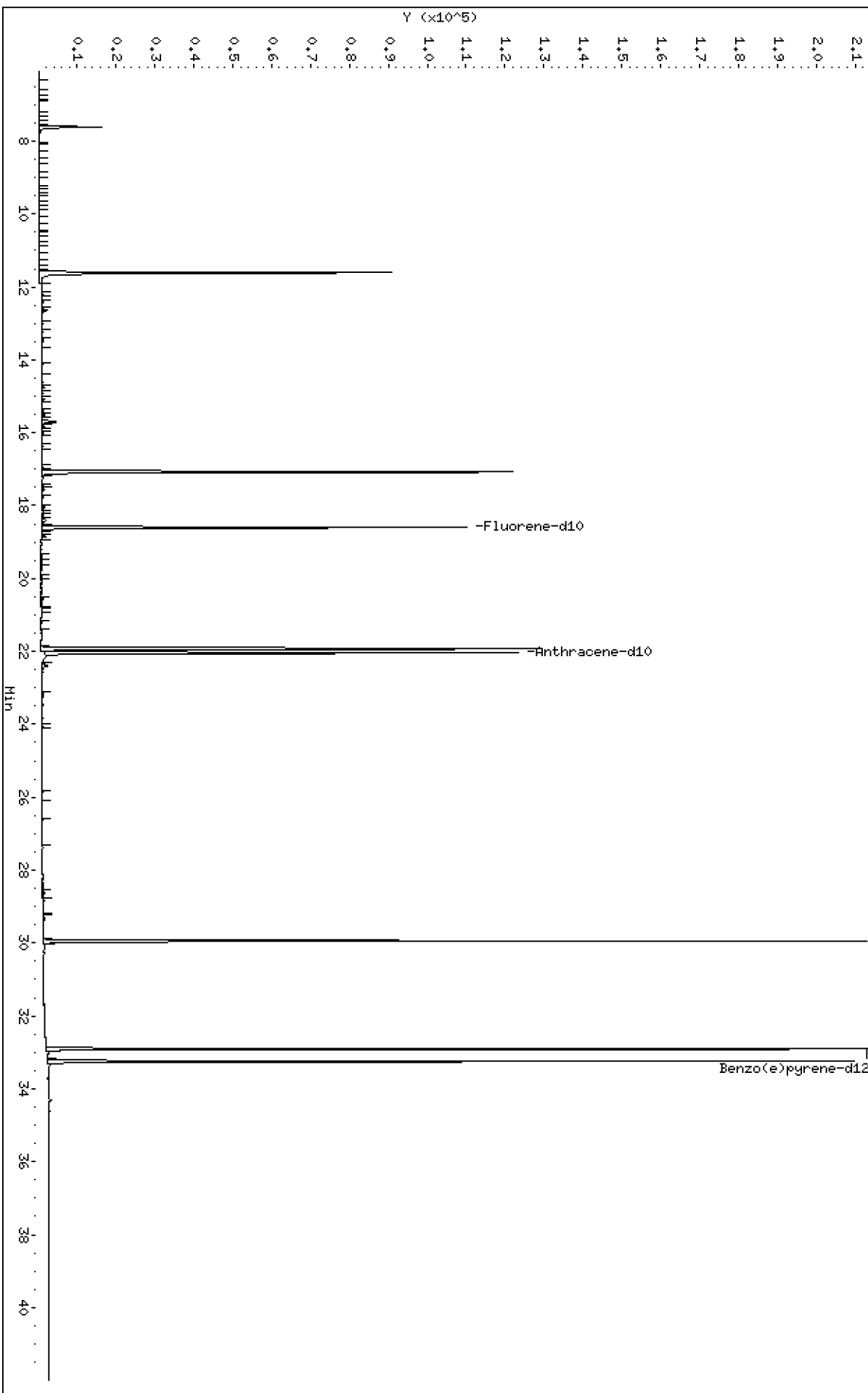
Column phase: Rxi-17S11 MS

Instrument: nt14.1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14.1\20201110.16\SIM.B\NT1420111017S.D



Date : 11-NOV-2020 00:28

Client ID:

Instrument: nt14.i

Sample Info: 20J0385-02

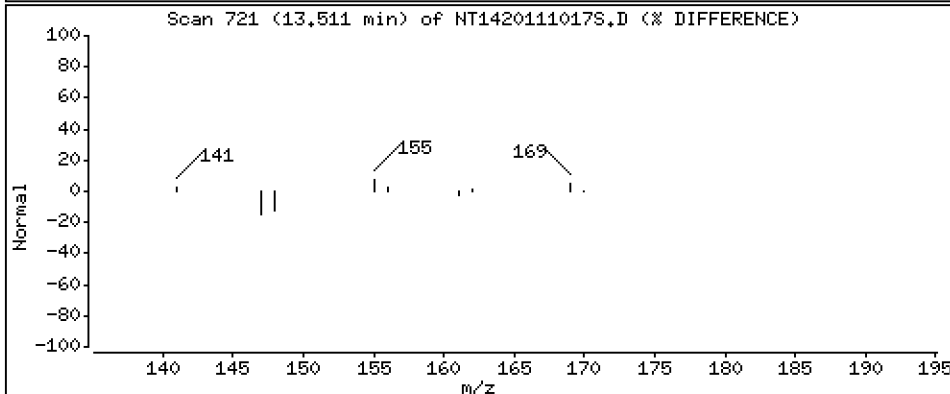
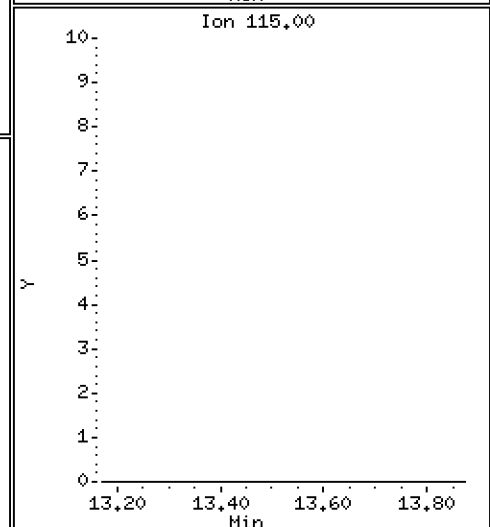
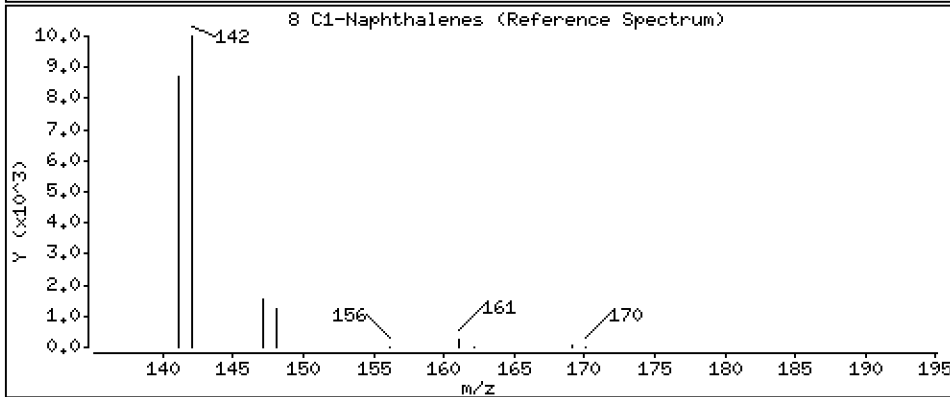
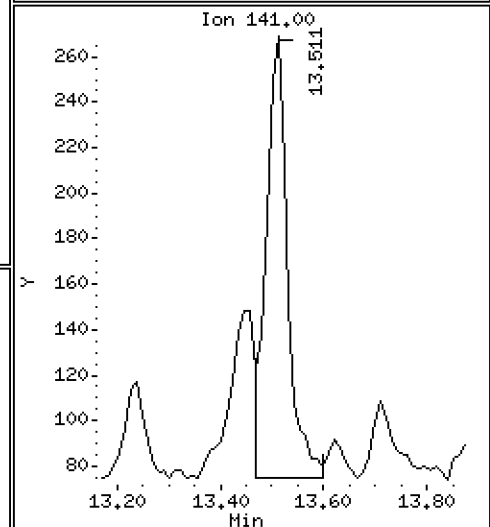
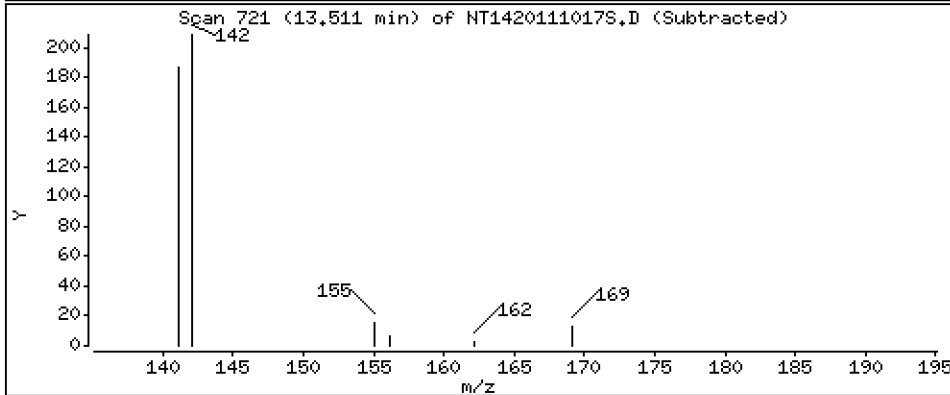
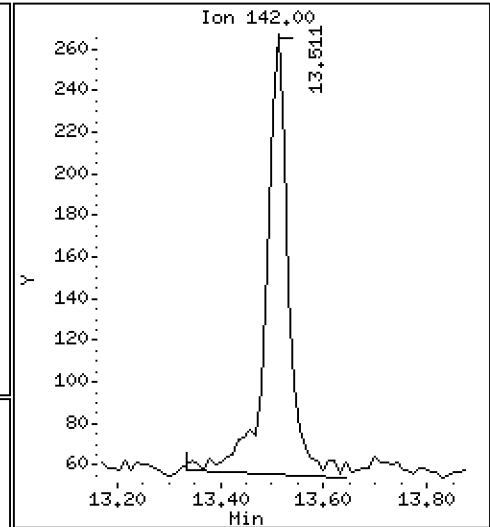
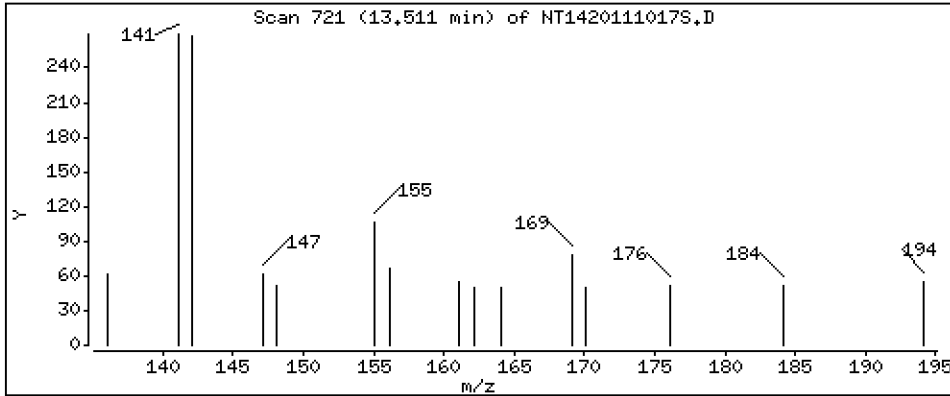
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

8 Cl-Naphthalenes

Concentration: 0,01089 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\SIM.b\NT1420111017S.D
Lab Smp Id: 20J0385-02
Inj Date : 11-NOV-2020 00:28
Operator : VTS
Smp Info : 20J0385-02
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
Meth Date : 13-Nov-2020 08:42 yev
Cal Date : 17-OCT-2020 17:58
Als bottle: 15
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							
4 C2-Decalin	166							
5 C3-Decalin	180							
247 C4-Decalin	194							
8 C1-Naphthalenes	142		13.511	13.522	(0.726)	1099	0.01089	0.01089(M)
9 C2-Naphthalenes	156							
10 C3-Naphthalenes	170							
11 C4-Naphthalenes	184							
13 C1-Benzothiophenes	148							
14 C2-Benzothiophenes	162							
15 C3-Benzothiophenes	176							
27 C1-Fluorenes	180							
28 C2-Fluorenes	194							
29 C3-Fluorenes	208							
31 C1-Dibenzothiophenes	198							
* 25 Fluorene-d10	176		18.600	18.611	(1.000)	247277	2.00000	
32 C2-Dibenzothiophenes	212							
33 C3-Dibenzothiophenes	226							
34 C4-Dibenzothiophenes	240							
38 C1-Phenanthrenes/Anthracenes	192							
39 C2-Phenanthrenes/Anthracenes	206							
40 C3-Phenanthrenes/Anthracenes	220							
41 C4-Phenanthrenes/Anthracenes	234							
48 C1-Fluoranthenes/Pyrenes	216							
* 250 Anthracene-d10	188		22.041	22.052	(1.000)	269497	2.00000	
49 C2-Fluoranthenes/Pyrenes	230							
50 C3-Fluoranthenes/Pyrenes	244							
249 C4-Fluoranthenes/Pyrenes	258							
52 C1-Naphthobenzothiophenes	248							
53 C2-Naphthobenzothiophenes	262							
54 C3-Naphthobenzothiophenes	276							
248 C4-Naphthobenzothiophenes	290							
58 C1-Benzo(a)anthracenes/Chrysen	242							

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	32.916	(1.000)	370548	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.		

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: NT1420111017S.D
Lab Smp Id: 20J0385-02
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
Misc Info:

Calibration Date: 10-NOV-2020
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

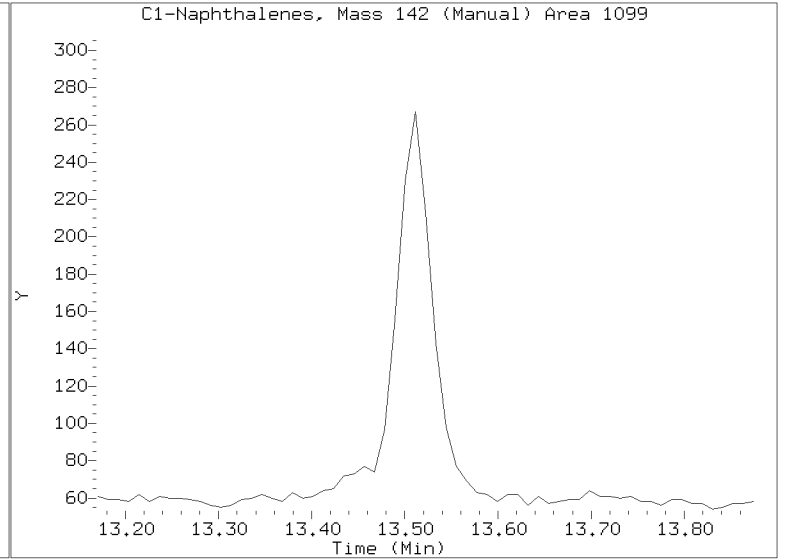
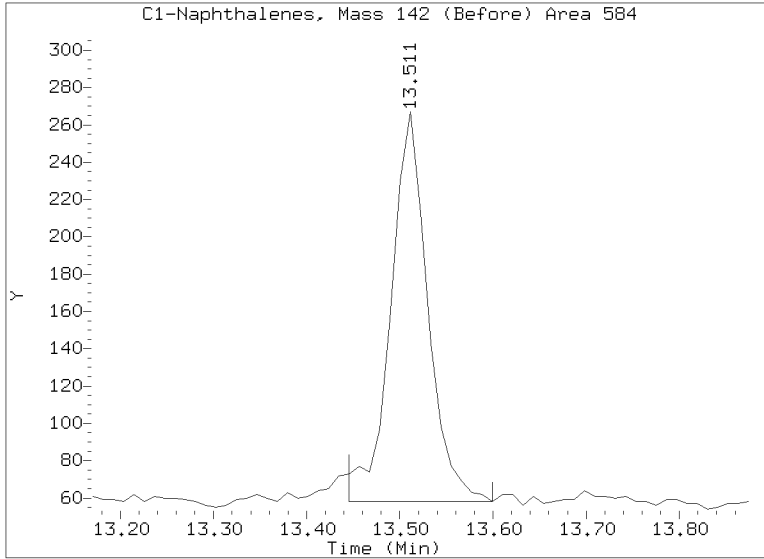
COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	304839	152420	609678	247277	-18.88
250 Anthracene-d10	339521	169761	679042	269497	-20.62
251 Benzo(e)pyrene-d1	505121	252561	1010242	370548	-26.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.61	18.11	19.11	18.60	-0.06
250 Anthracene-d10	22.05	21.55	22.55	22.04	-0.05
251 Benzo(e)pyrene-d1	32.92	32.42	33.42	32.90	-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.

Quant Ion Manual Peak Adjustment Report

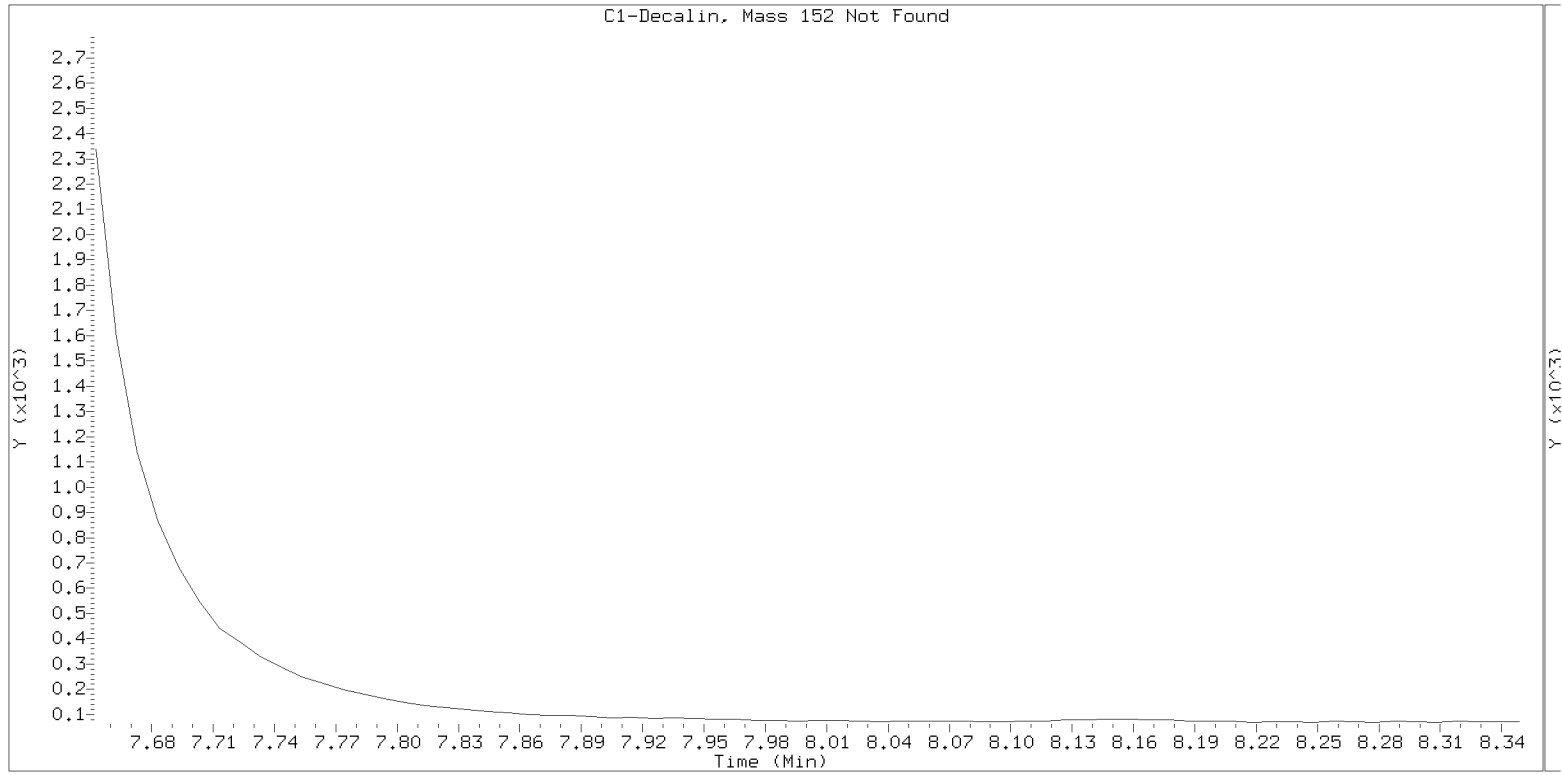
Datafile: //target/share/chem3/nt14.i/20201110.b/SIM.b/NT1420111017S.D
Injection Date: 11-NOV-2020 00:28
Lab ID:20J0385-02 Client ID:
Report Date: 11/13/2020 08:44



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

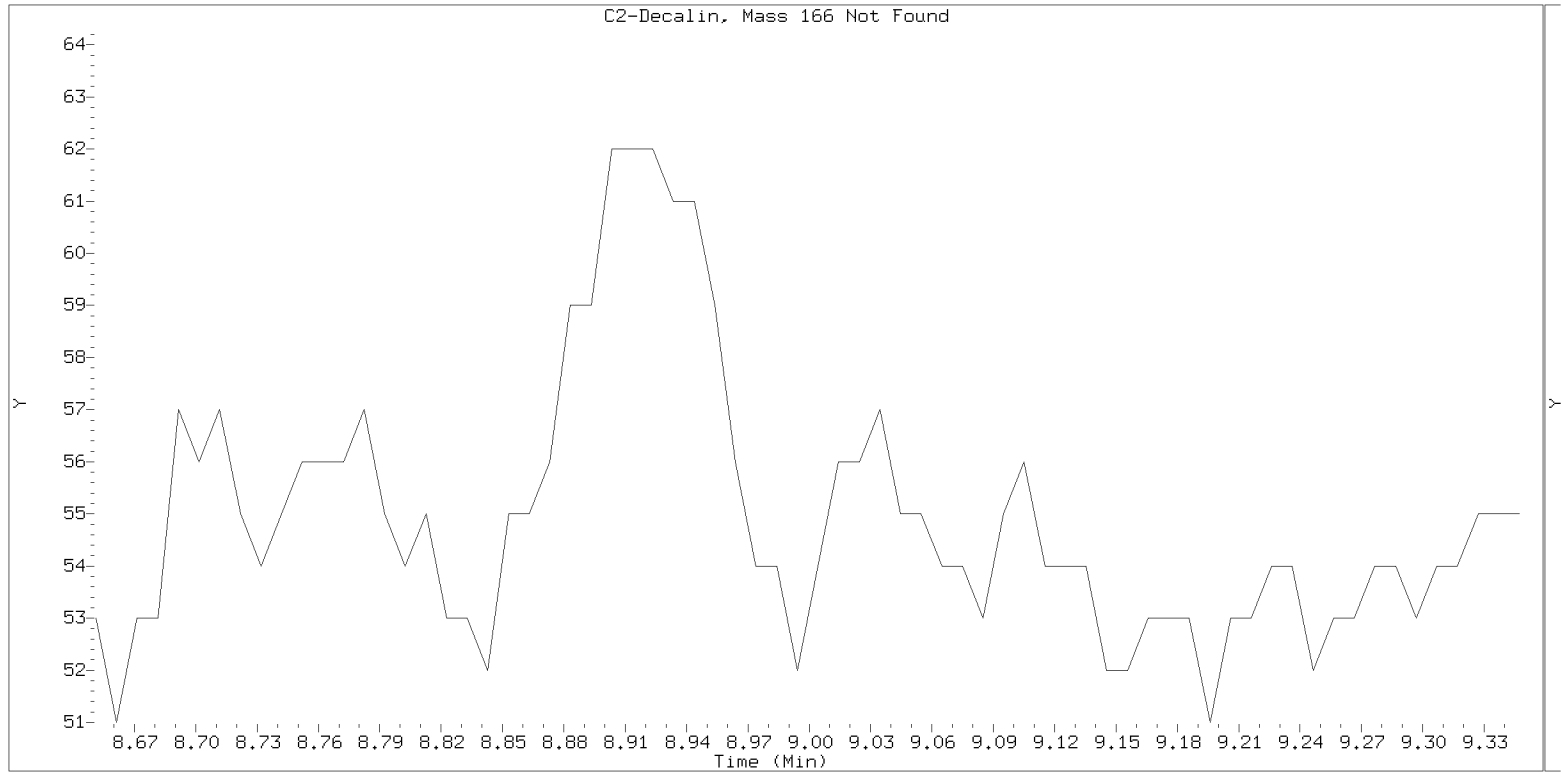
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

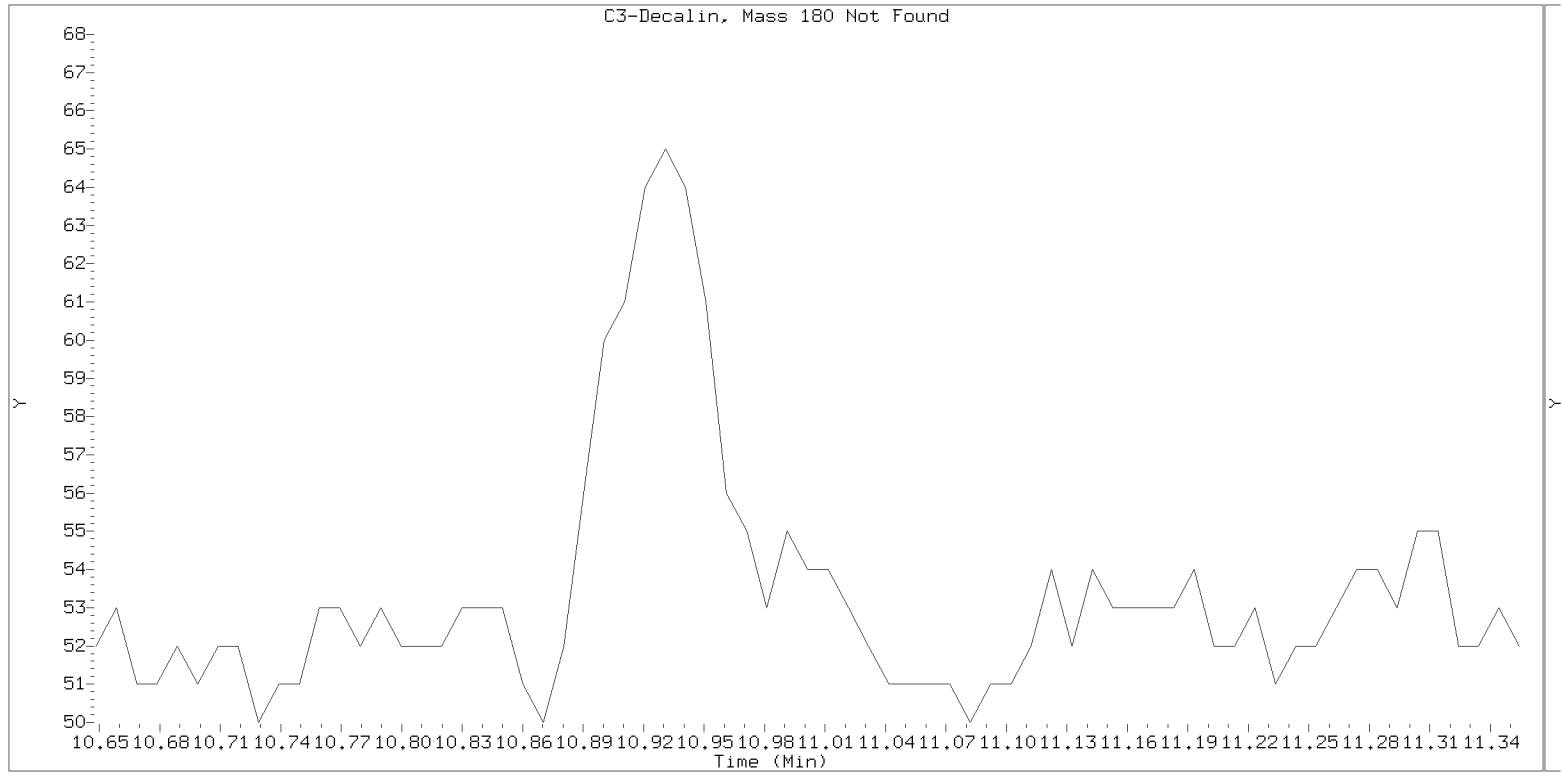
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

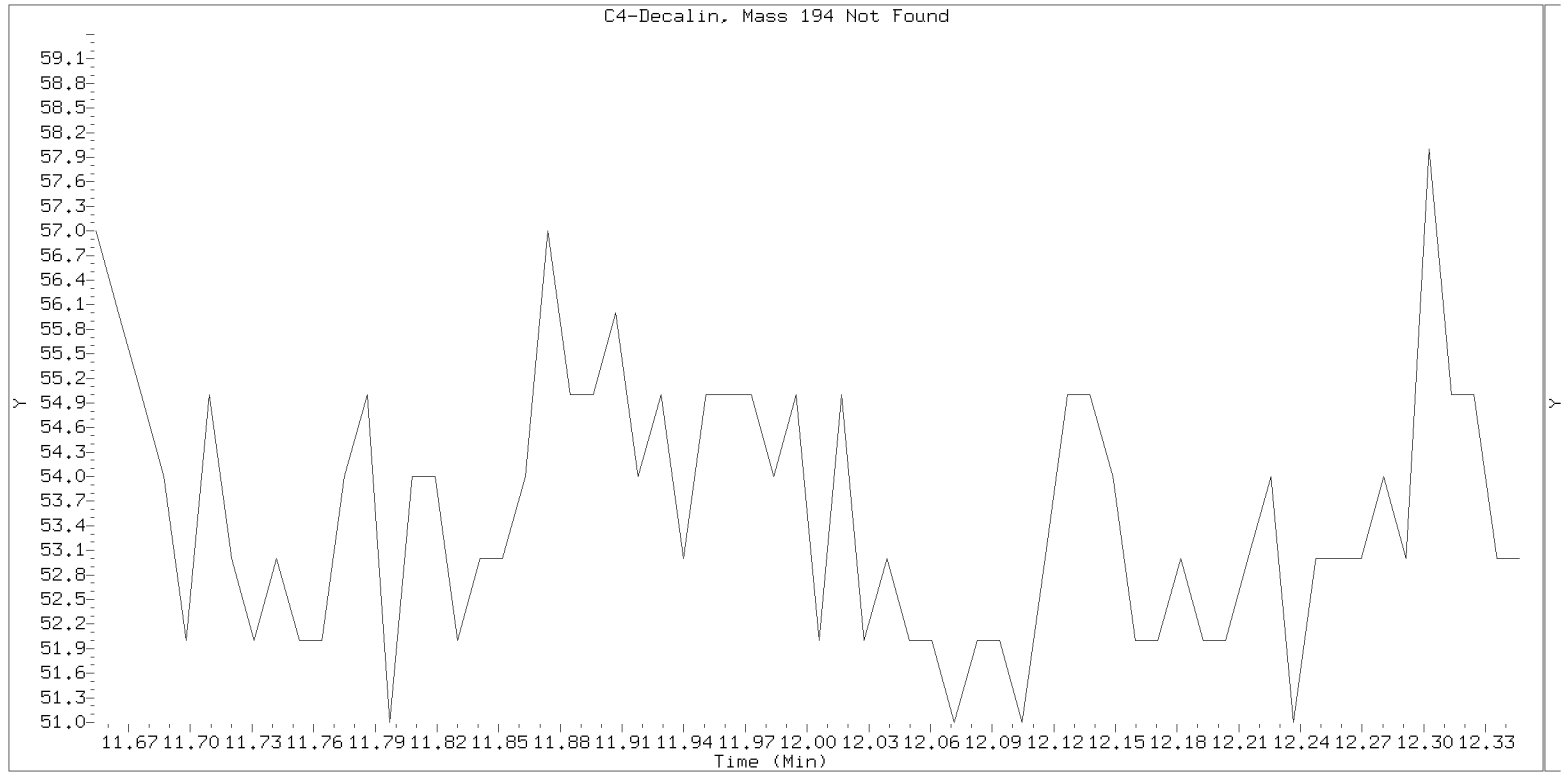
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

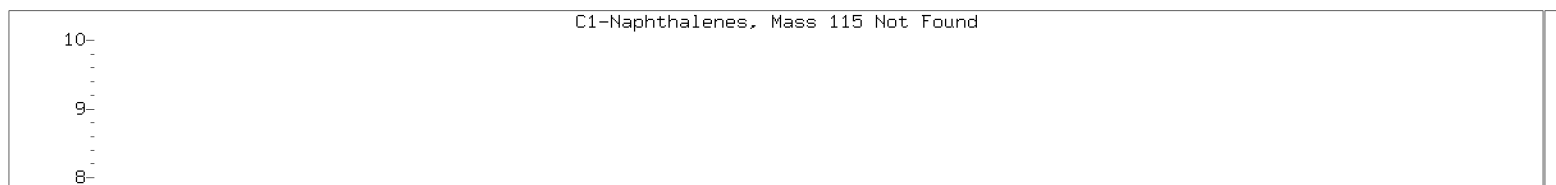
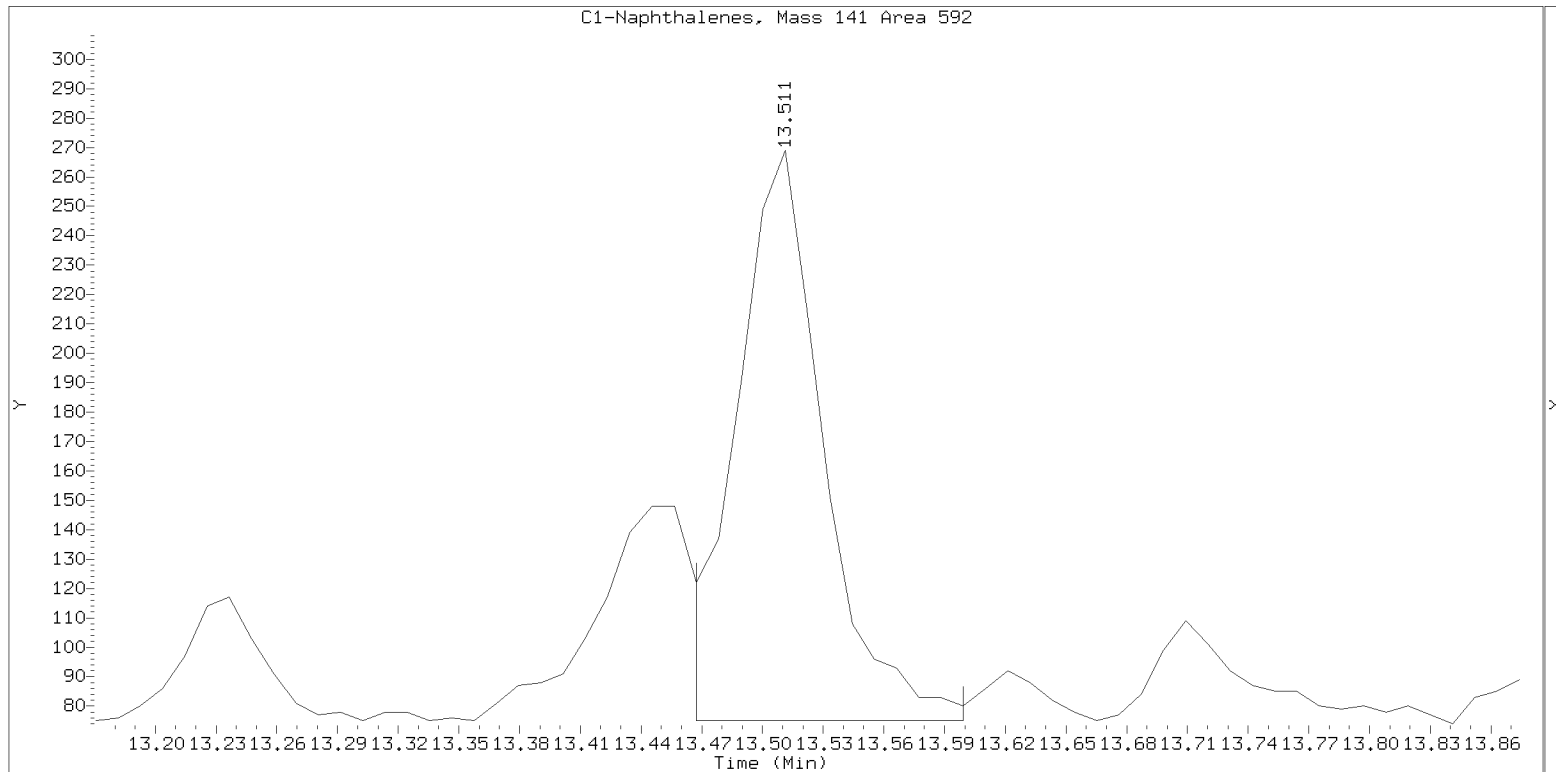
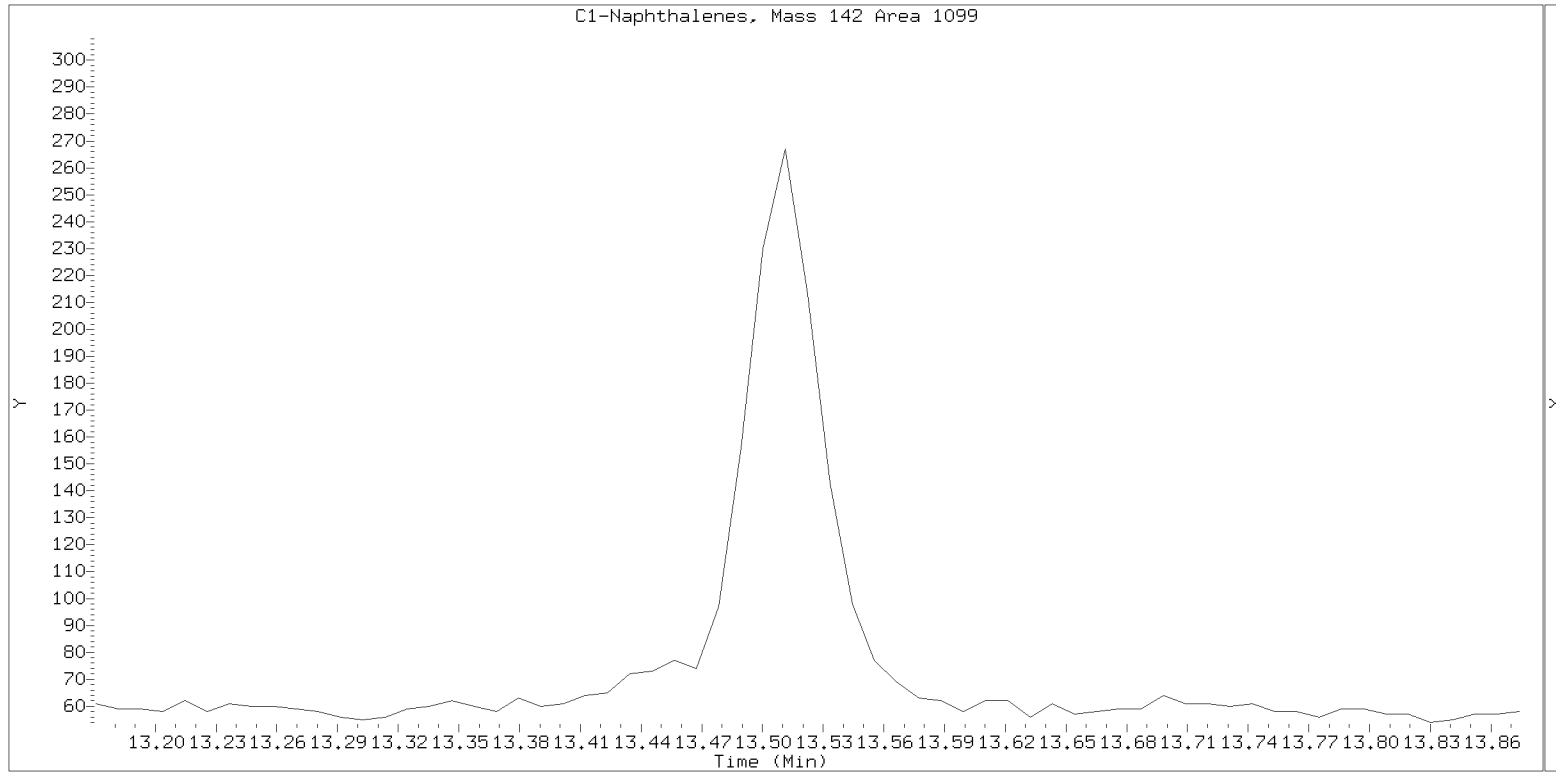
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

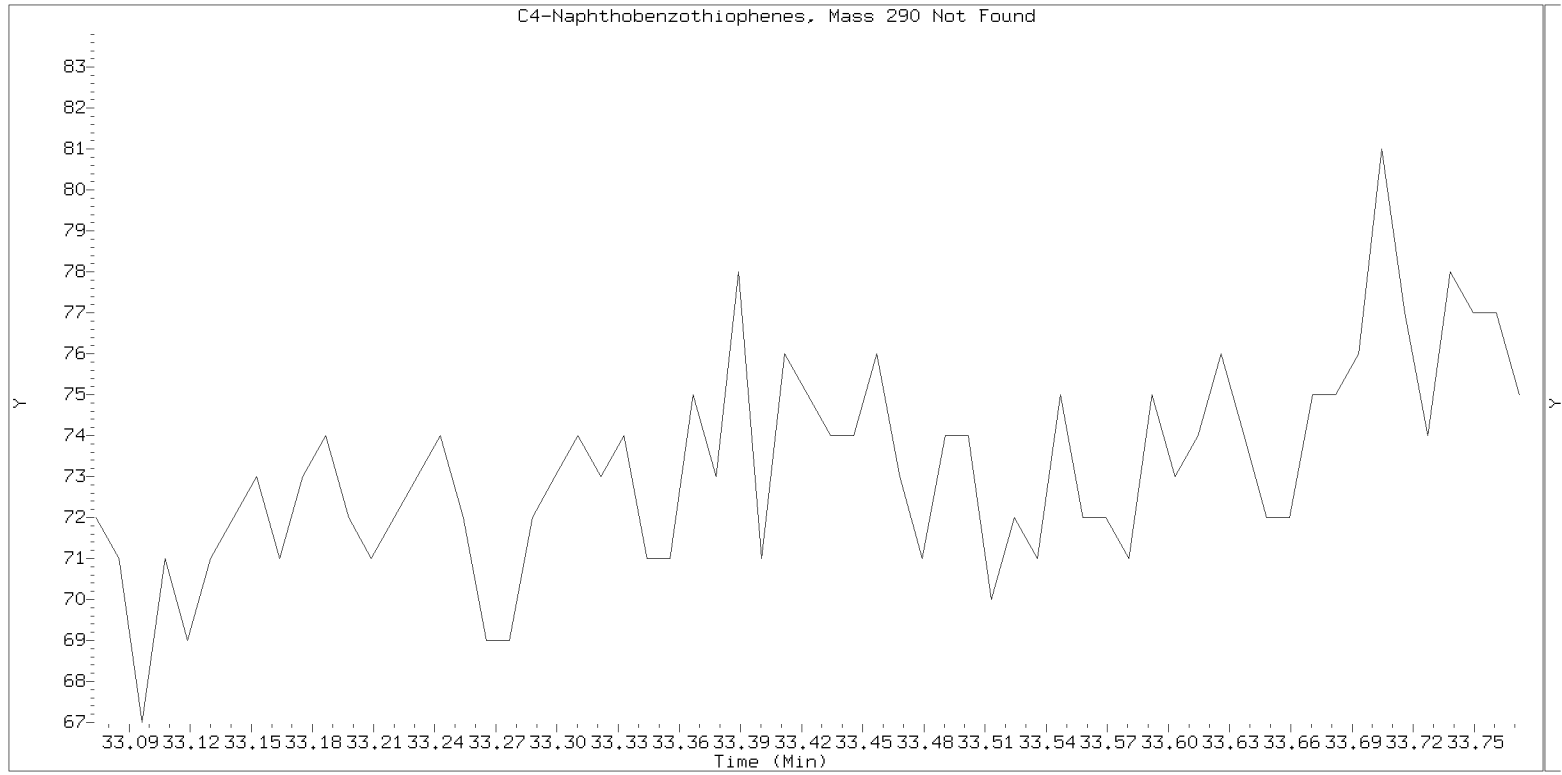
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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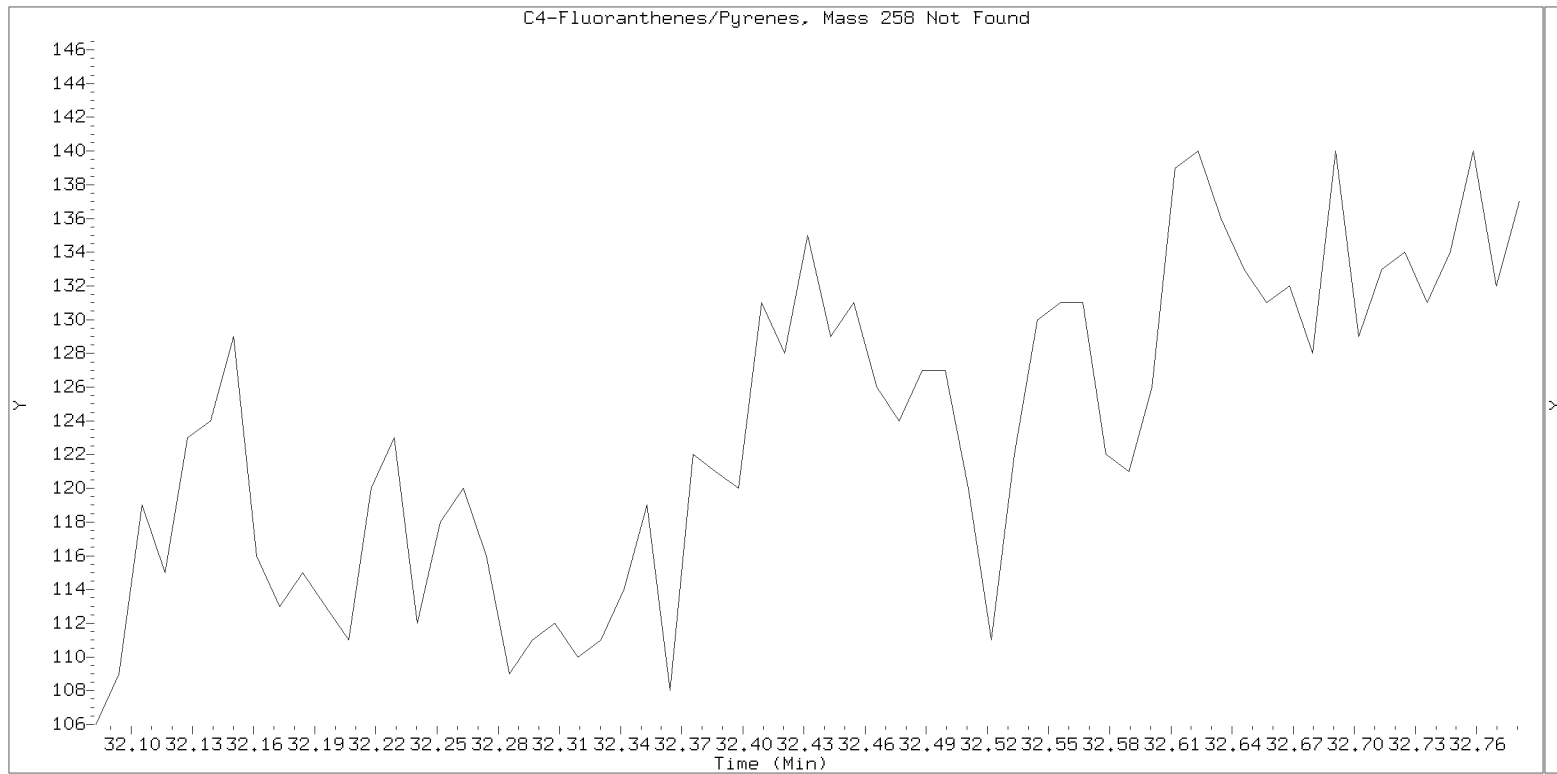
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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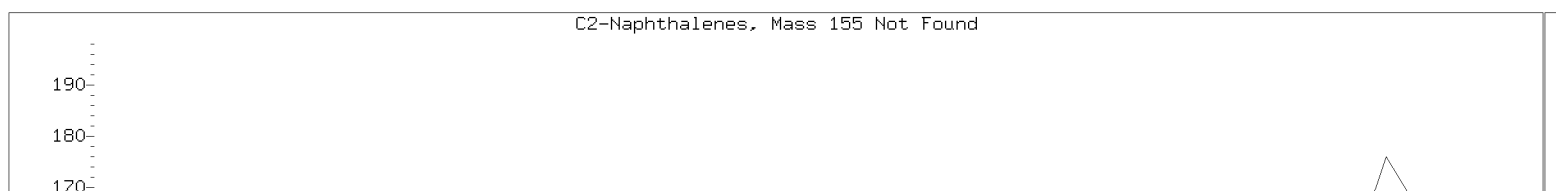
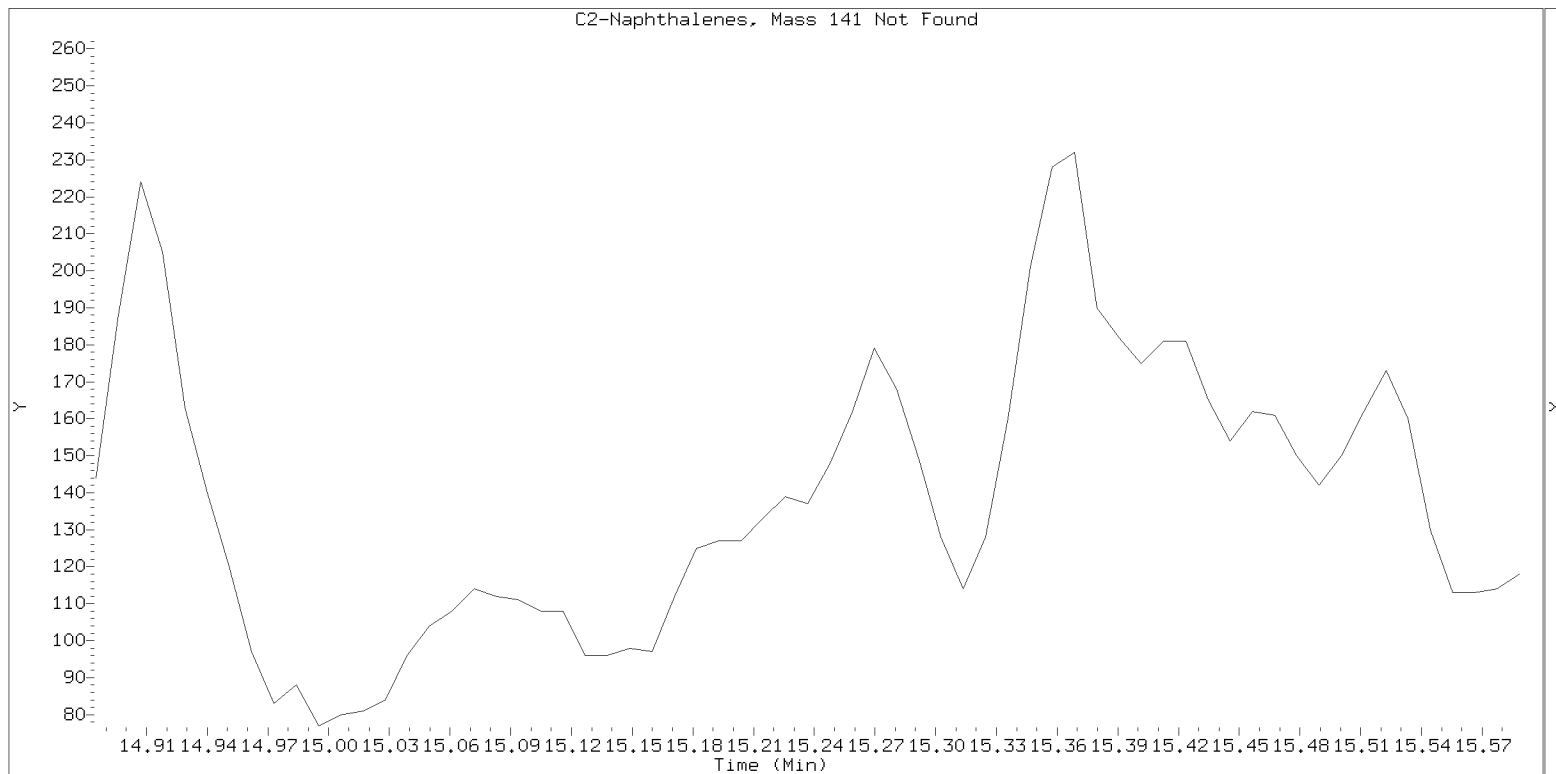
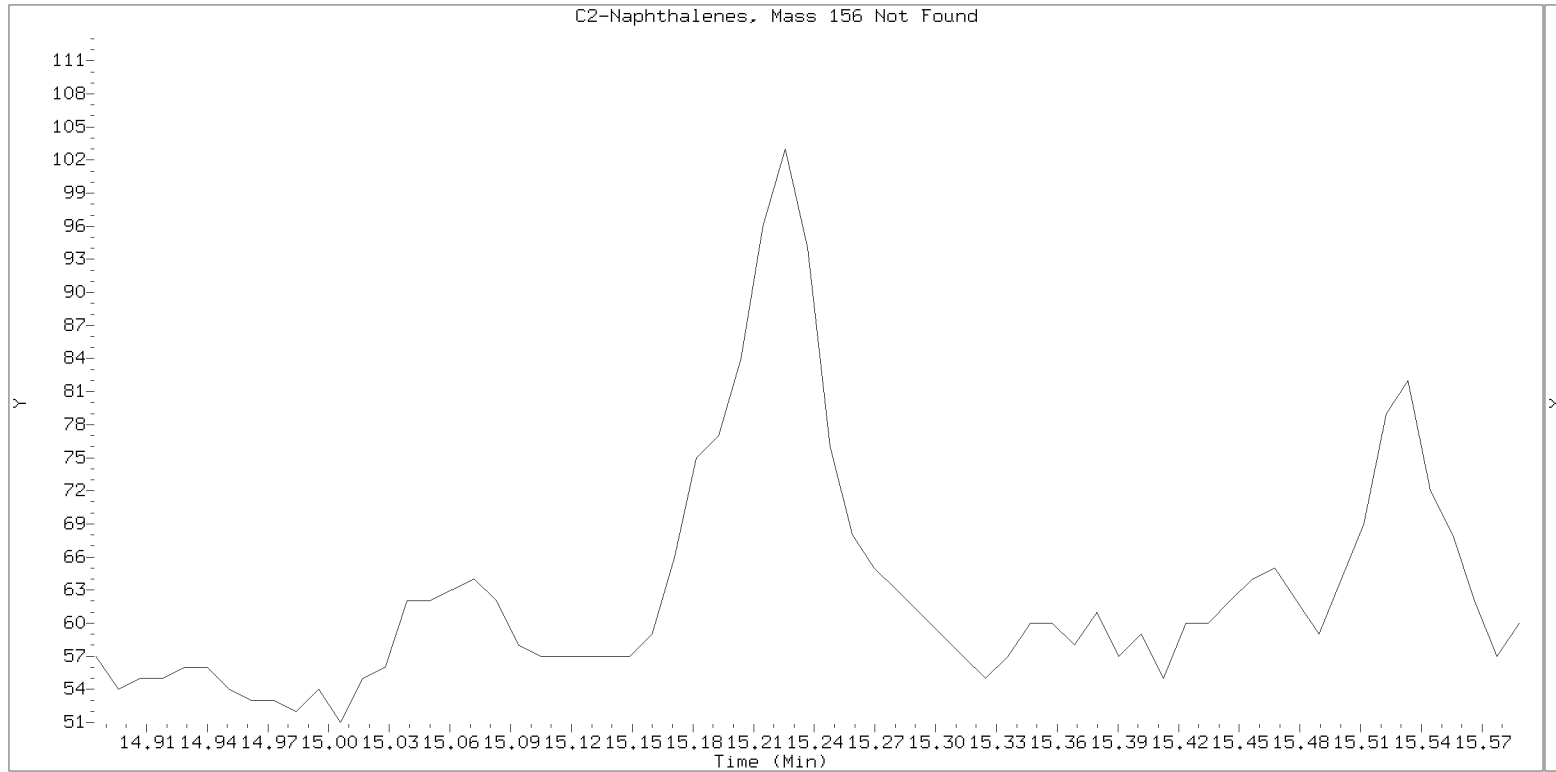
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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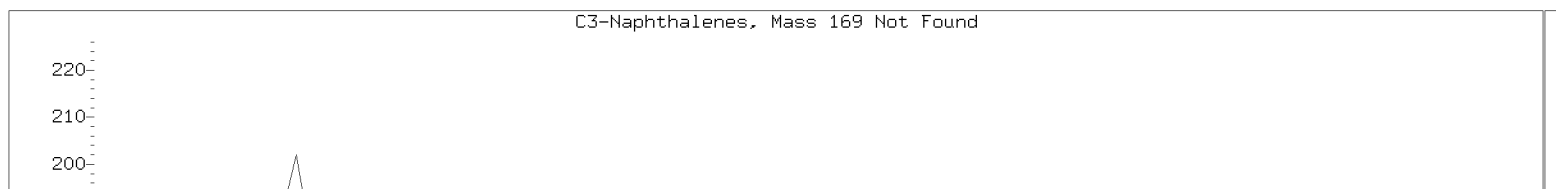
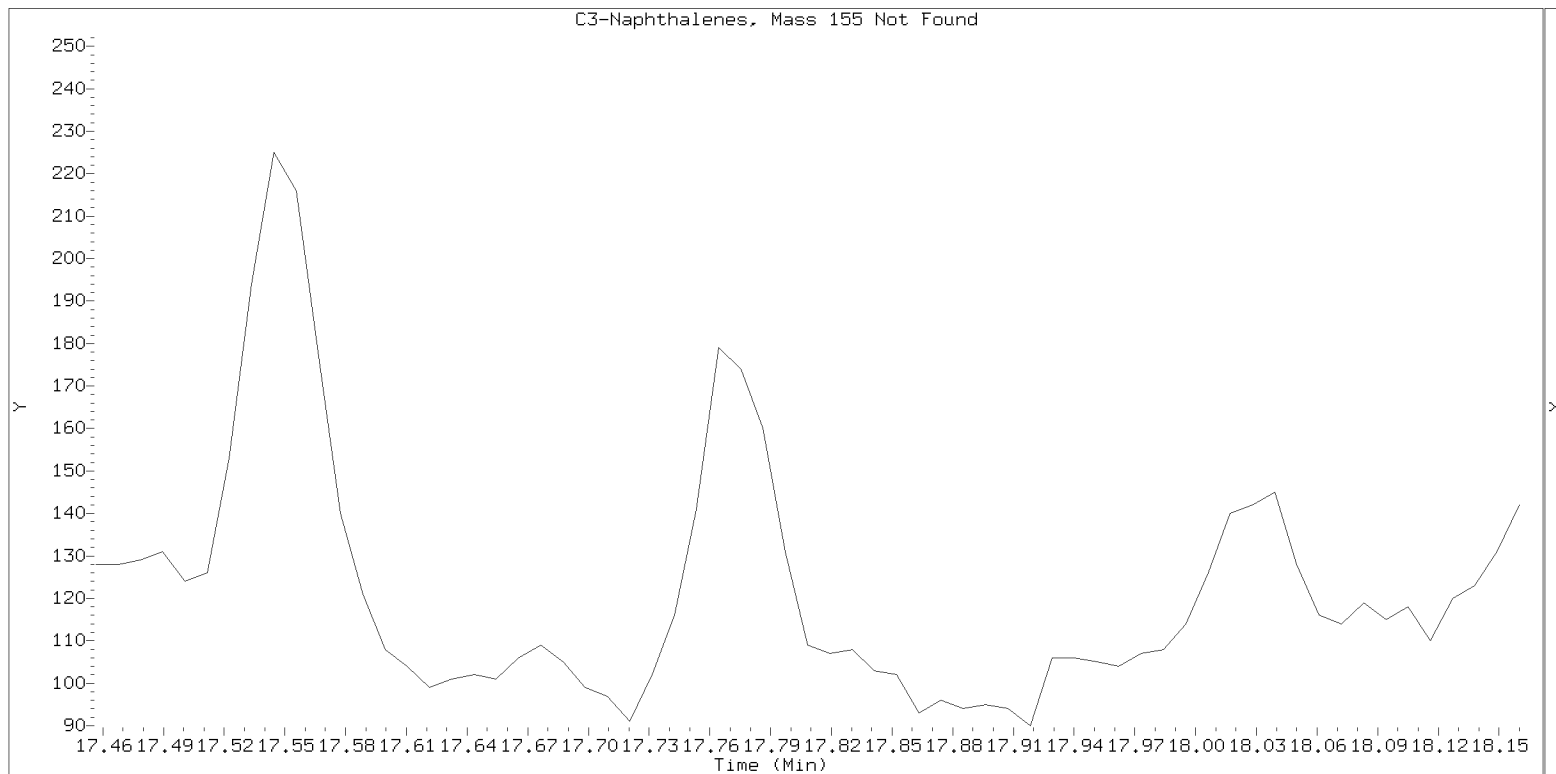
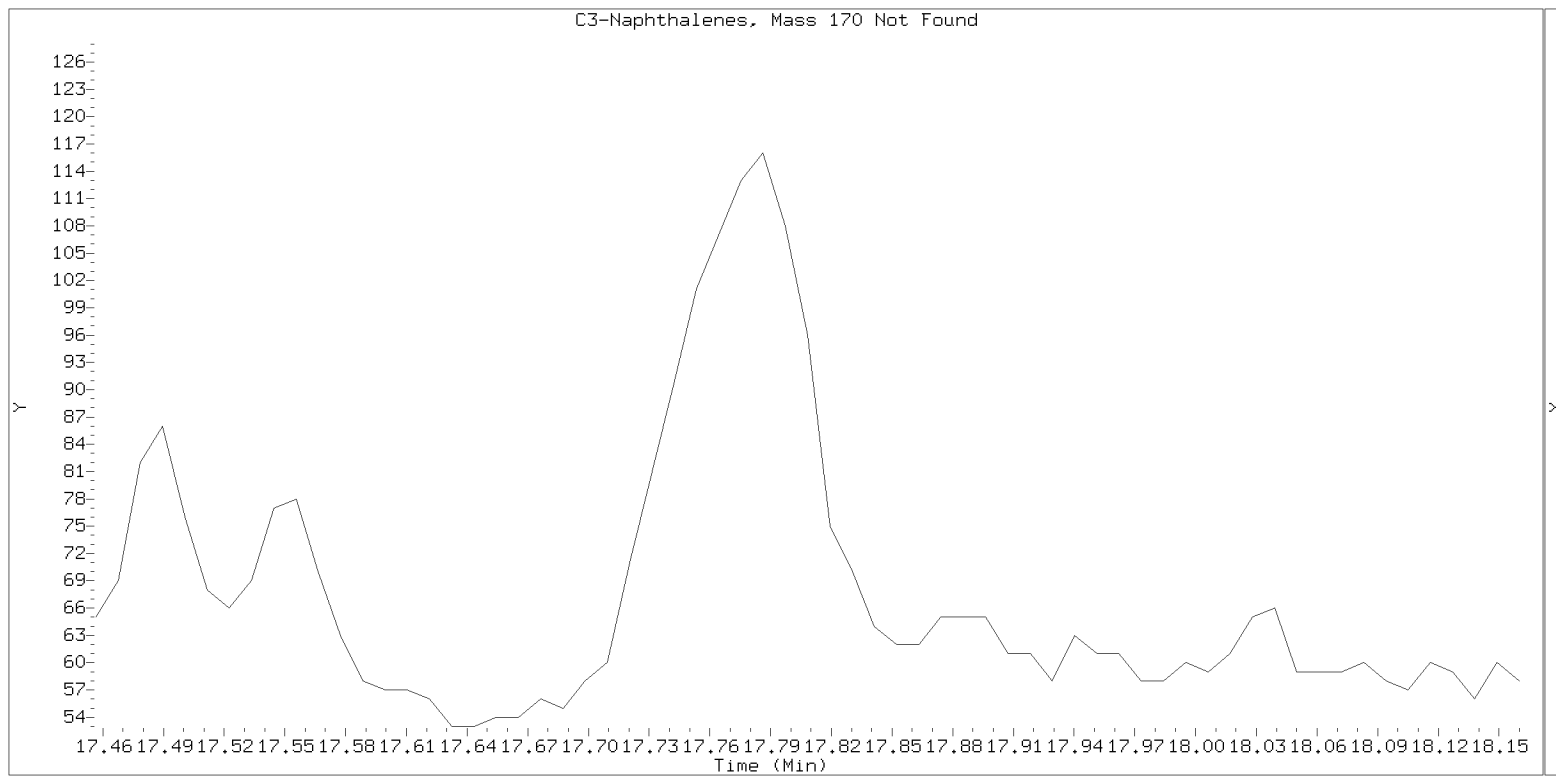
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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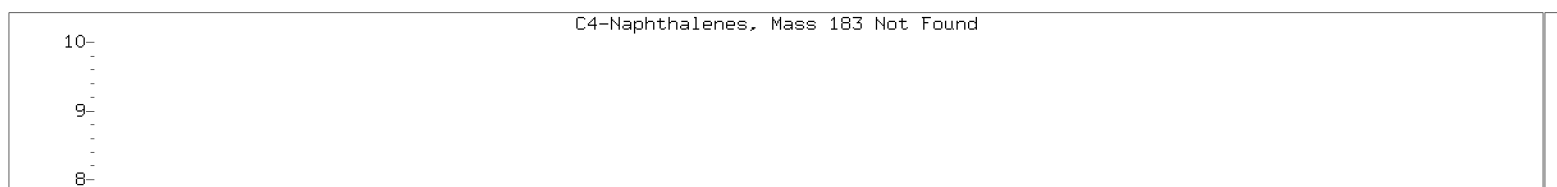
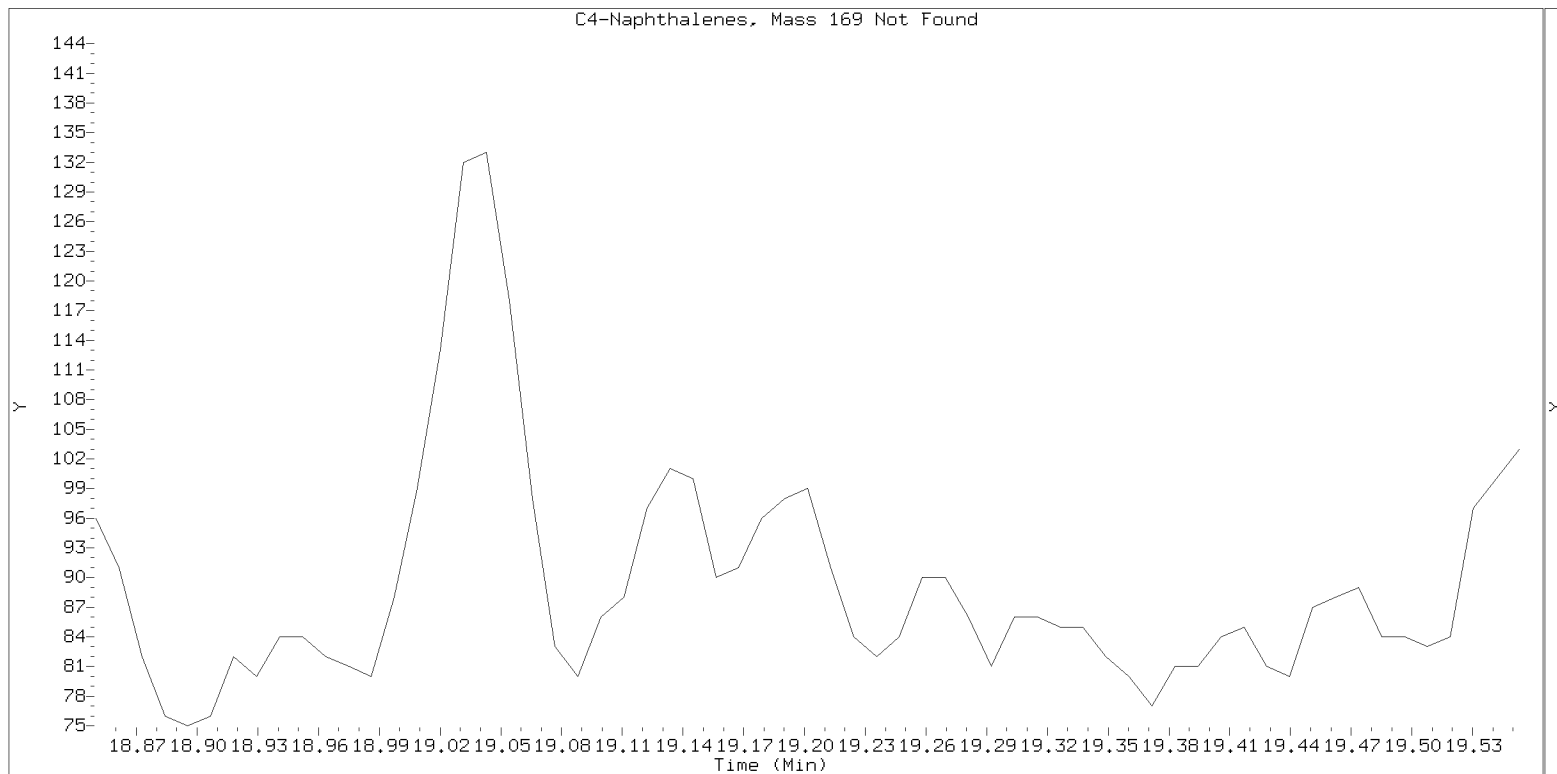
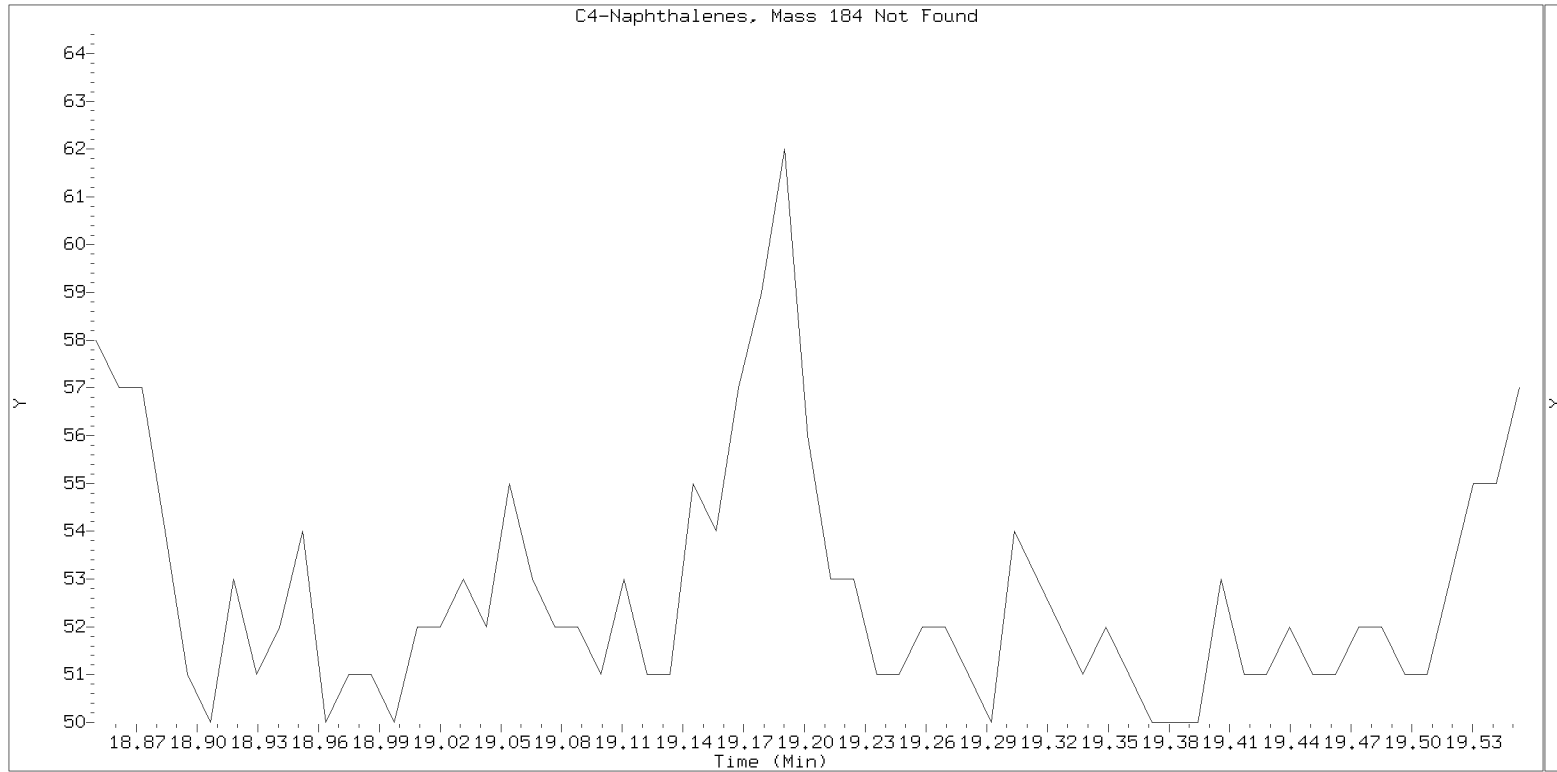
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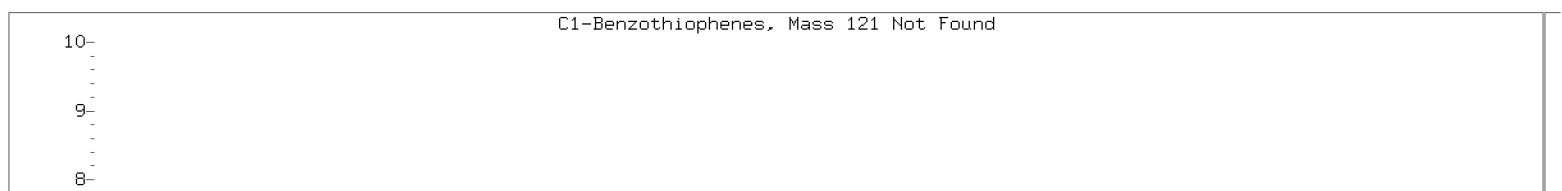
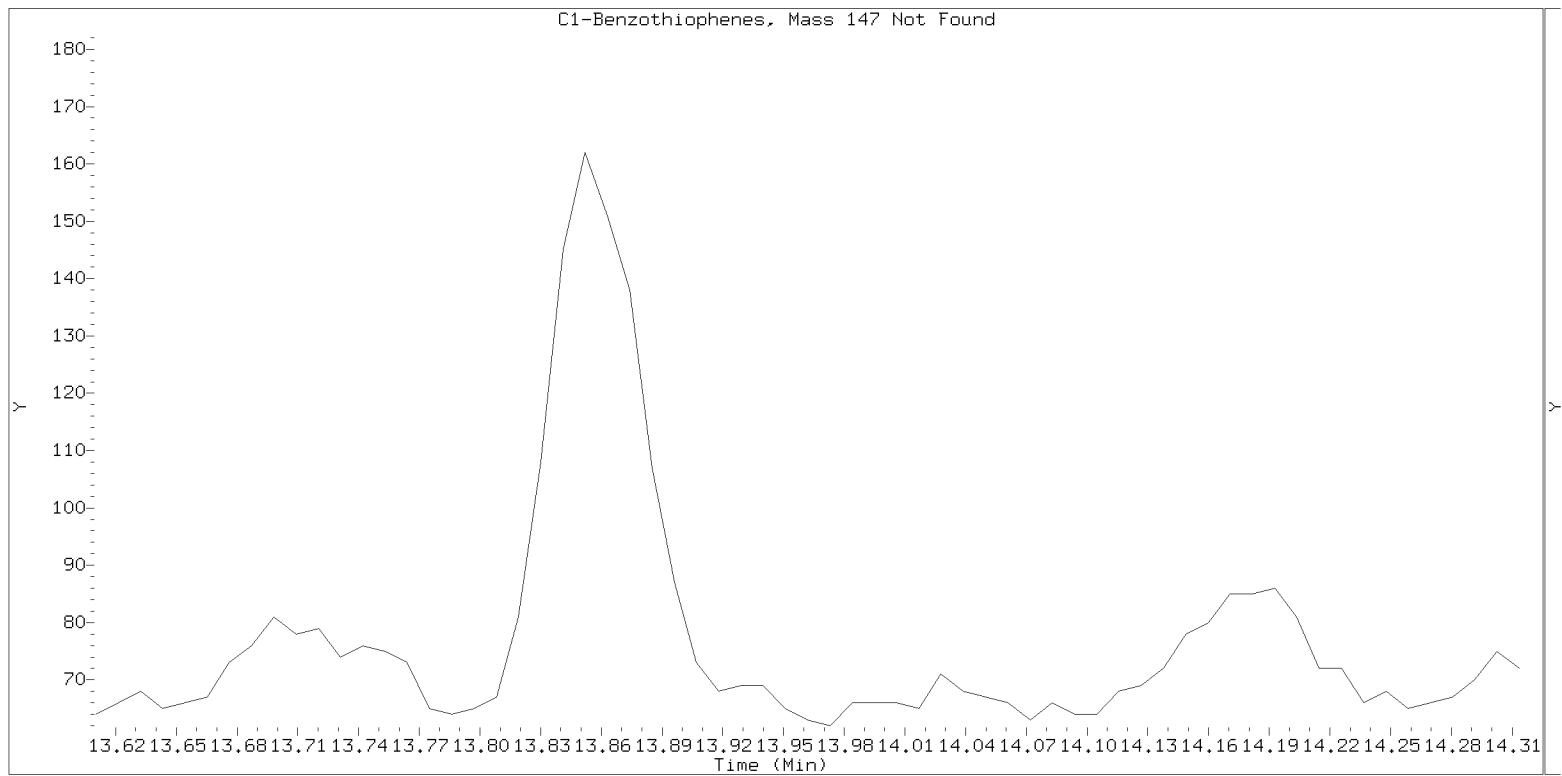
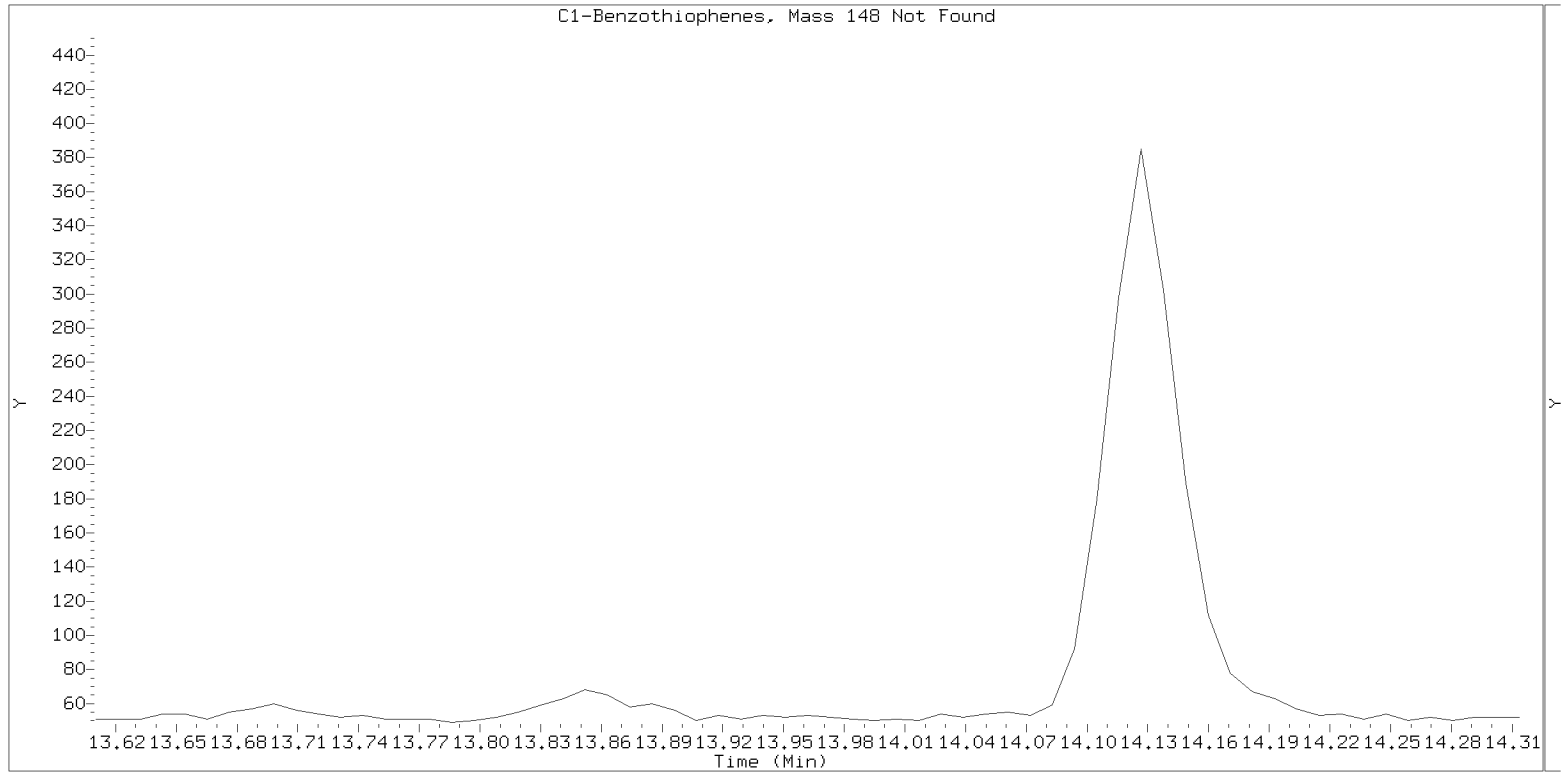
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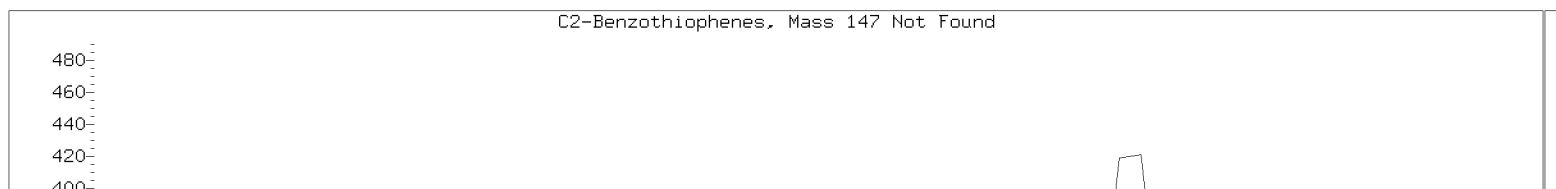
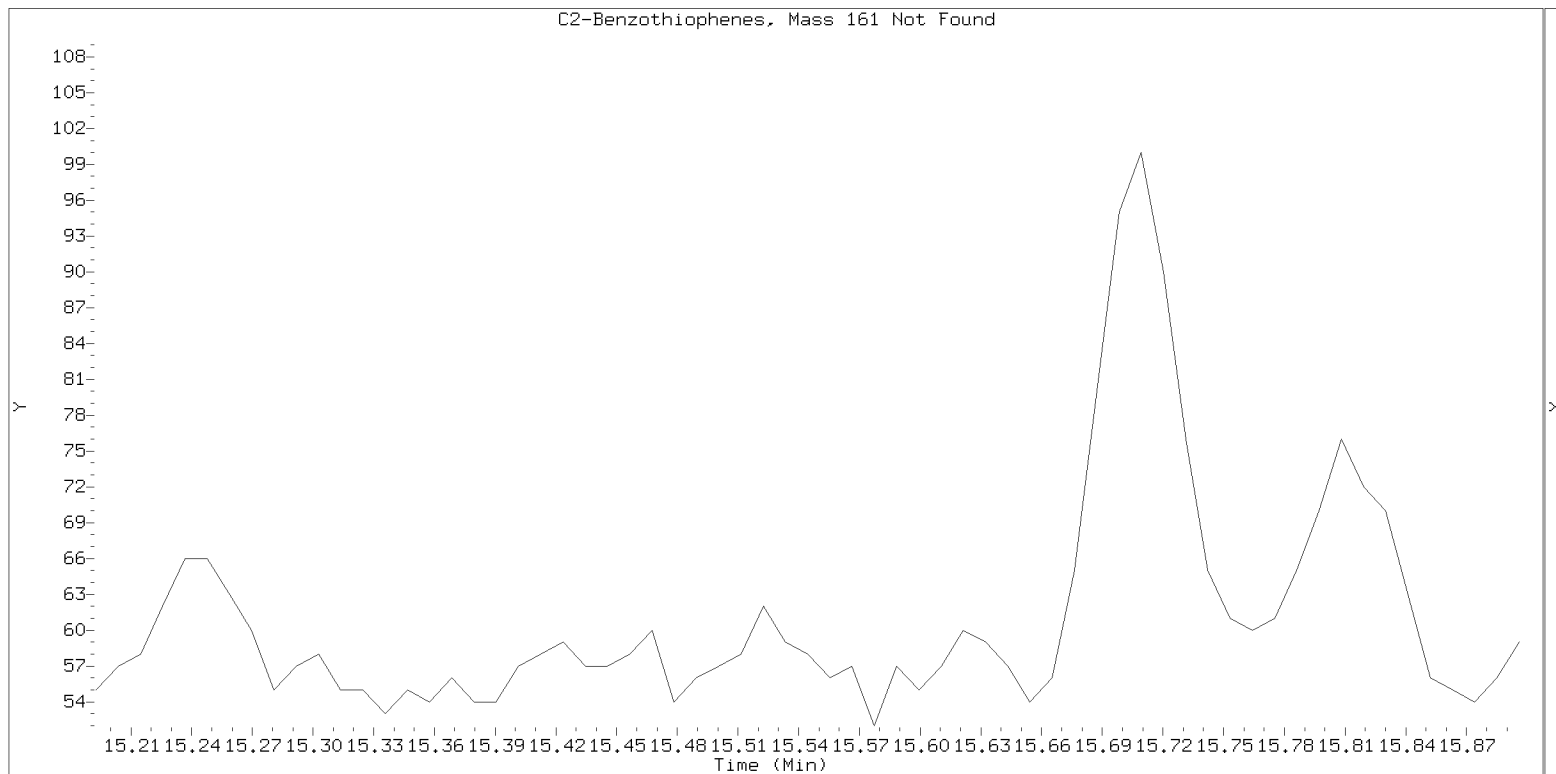
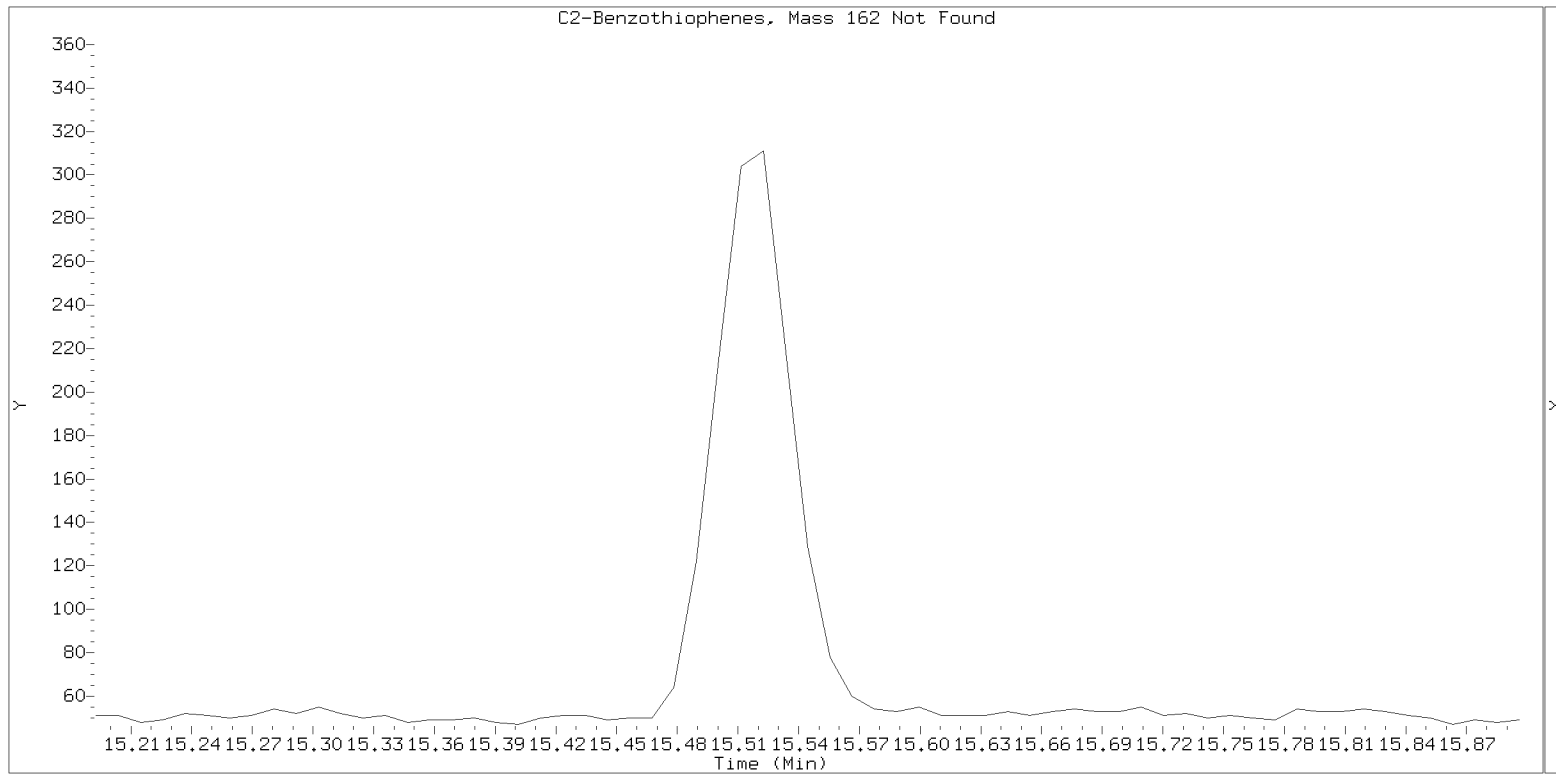
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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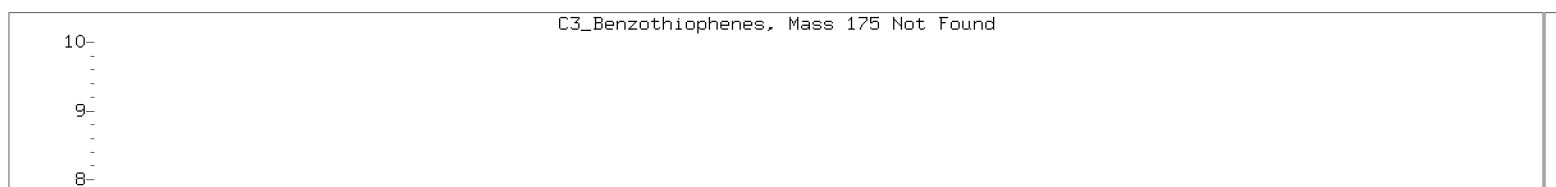
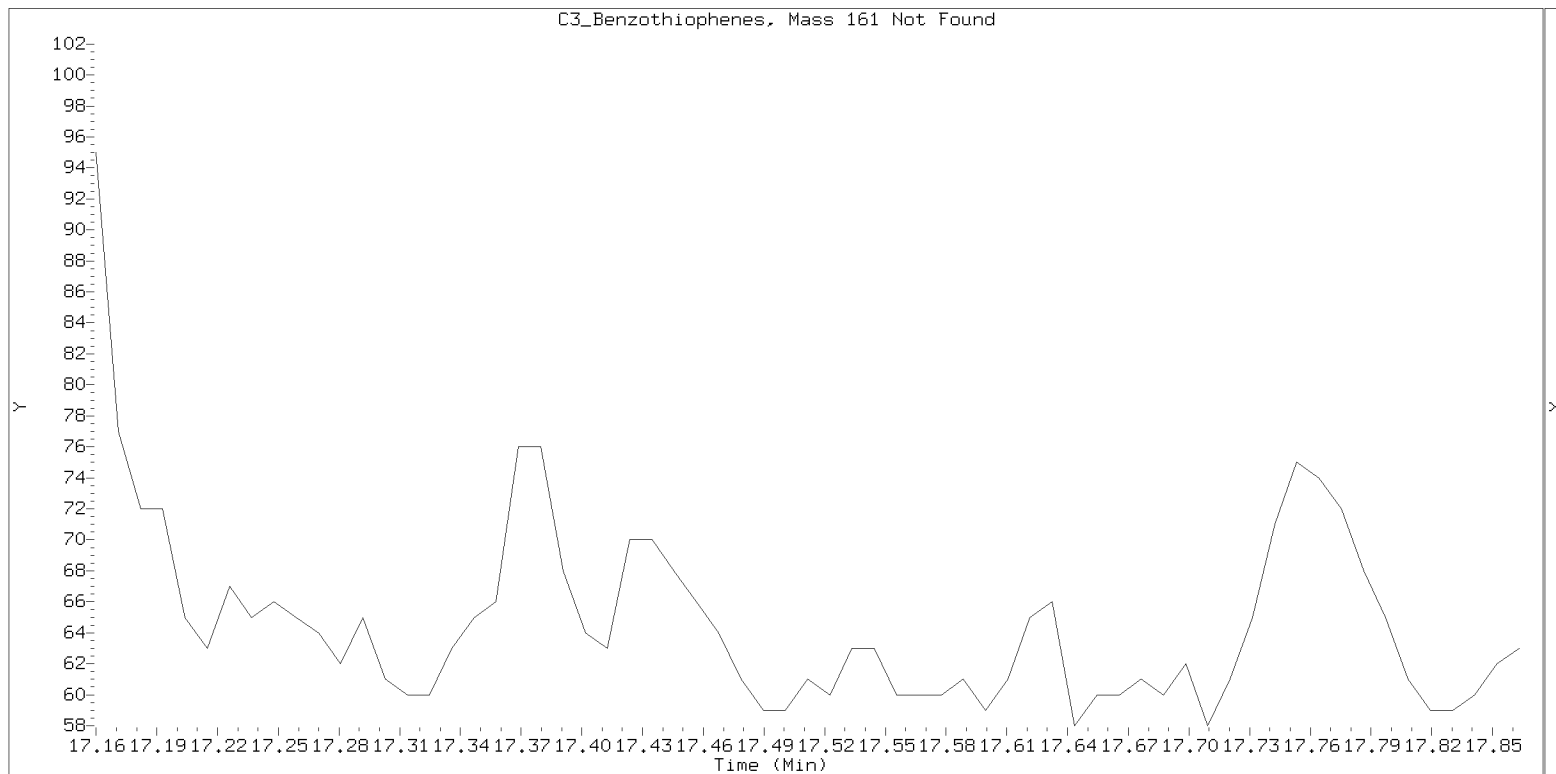
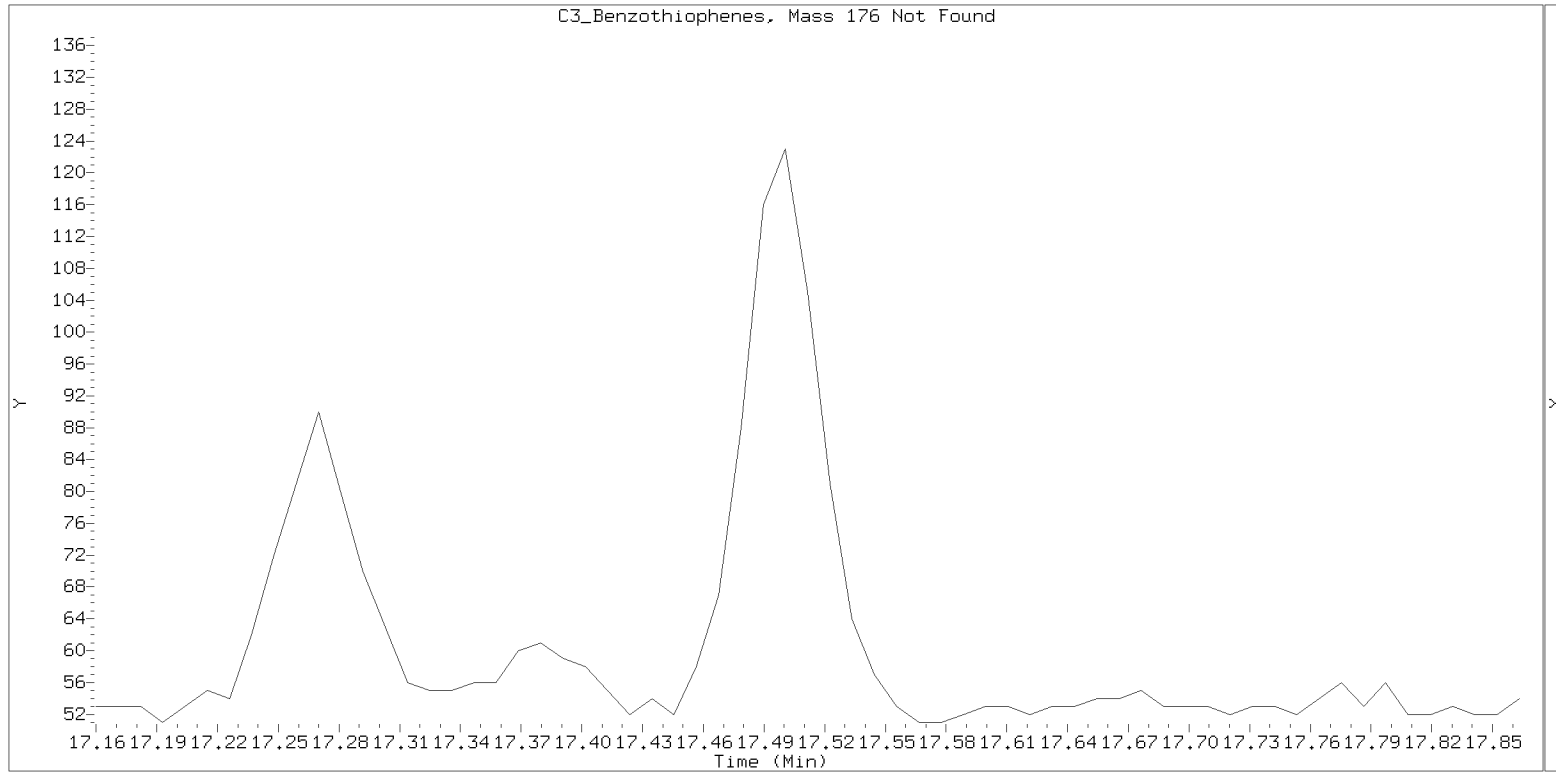
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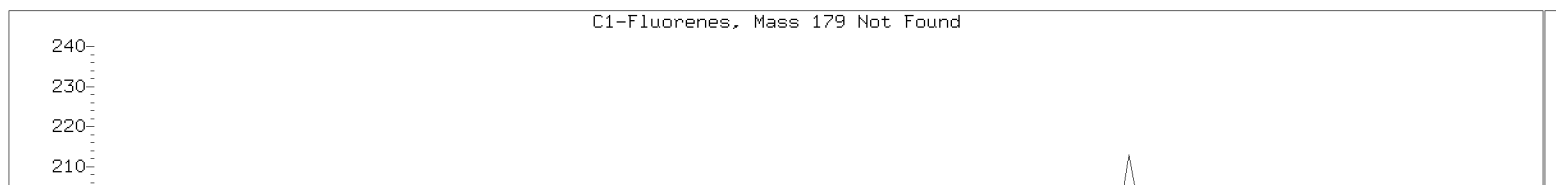
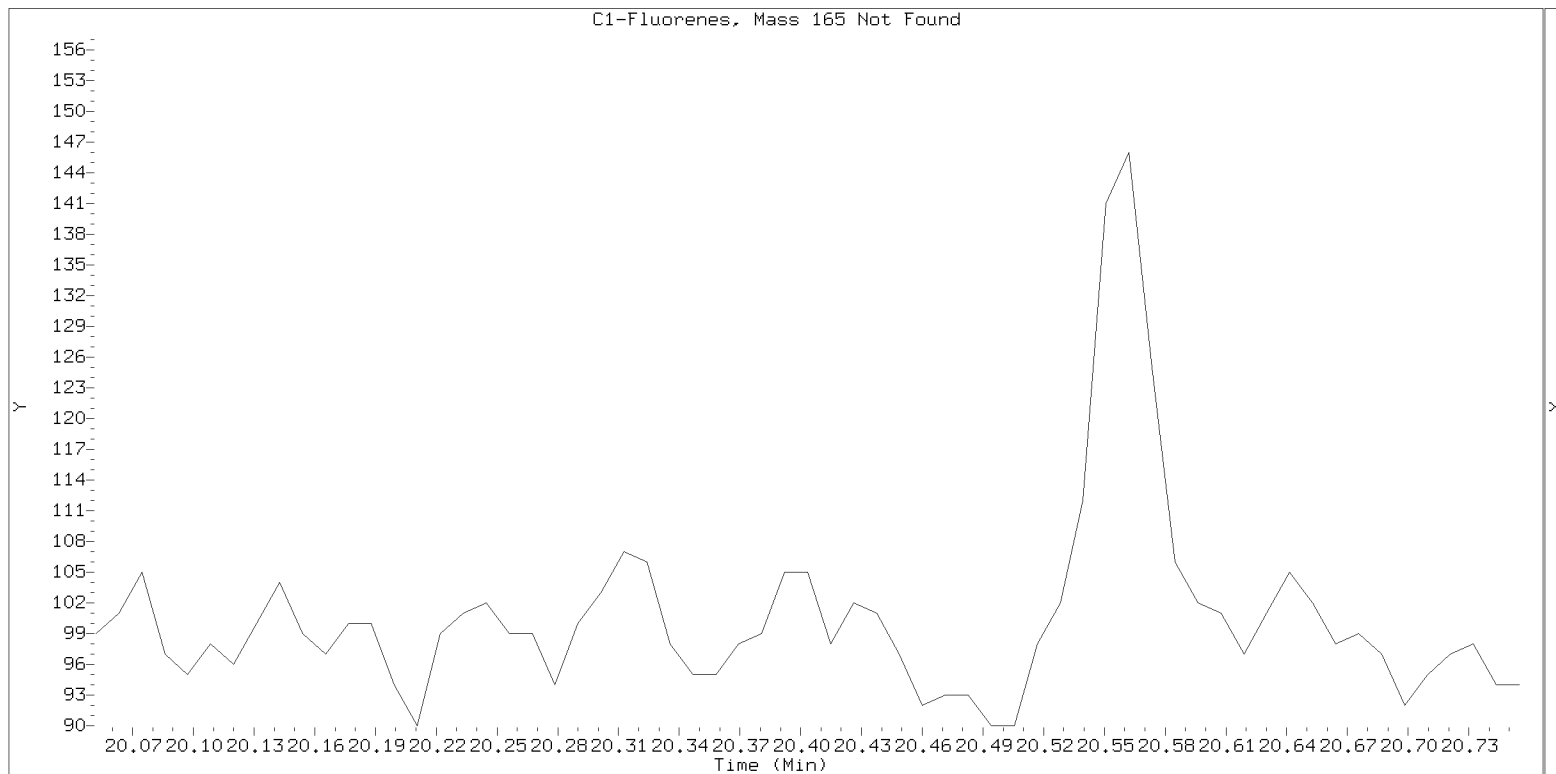
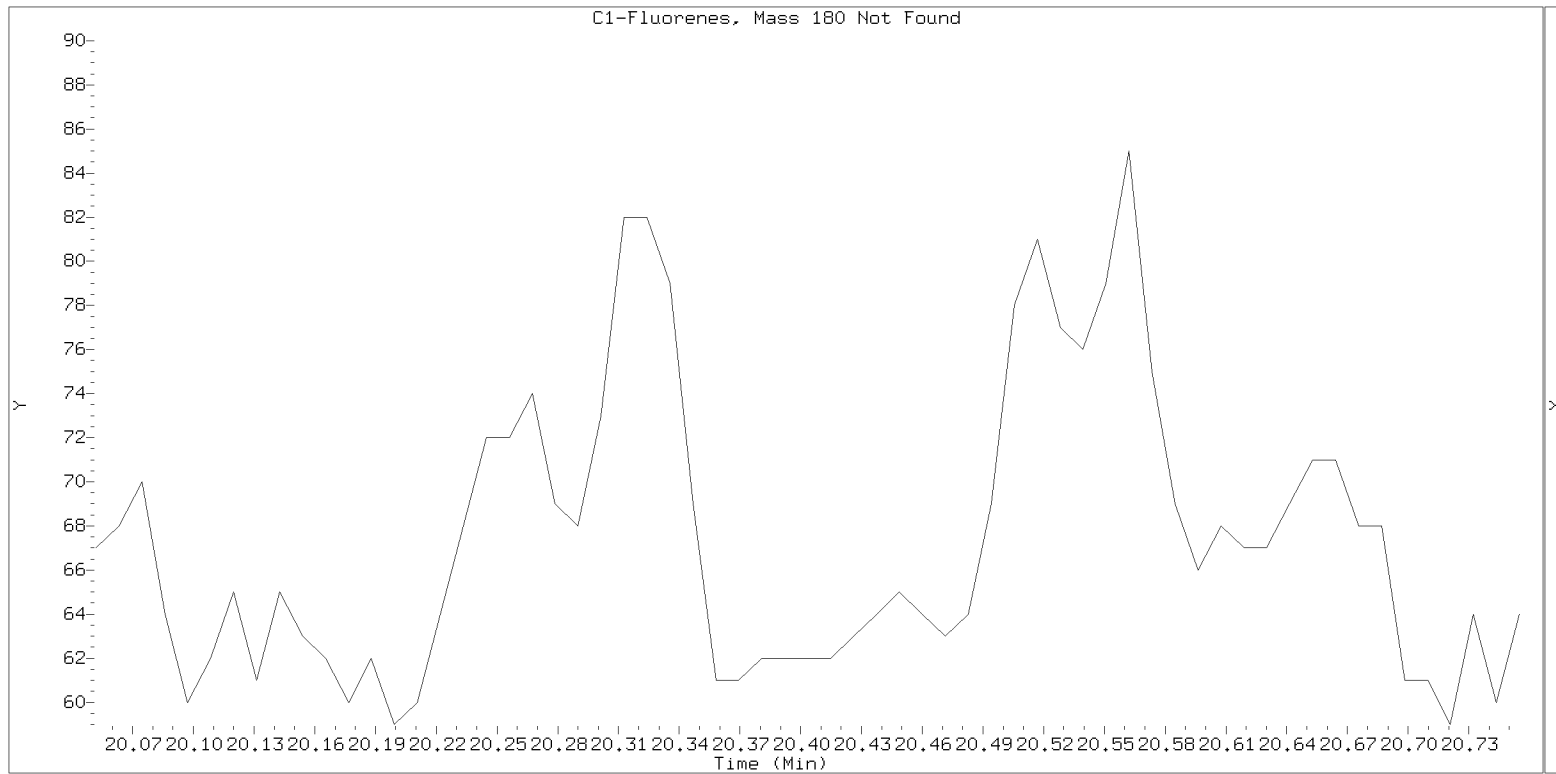
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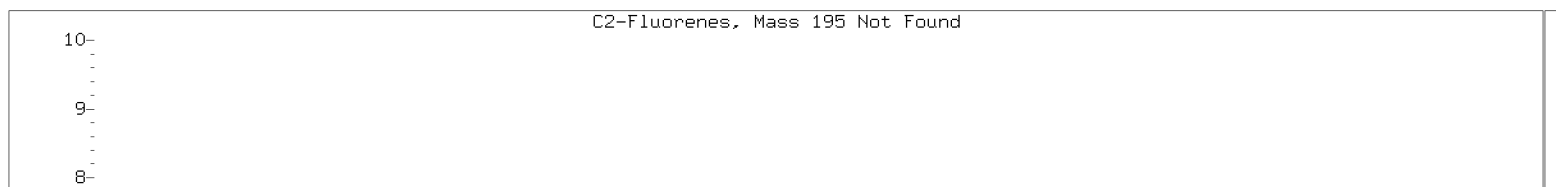
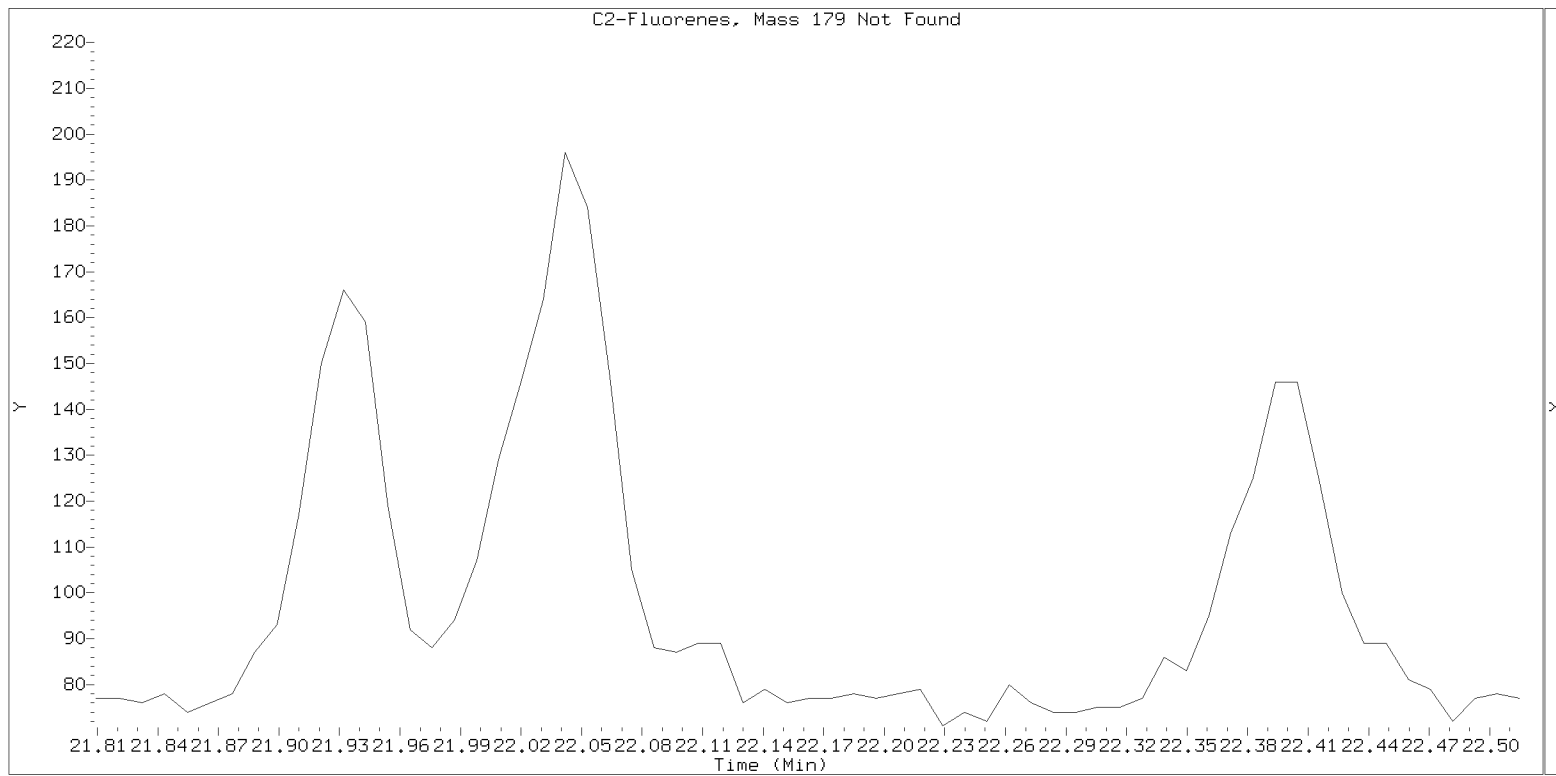
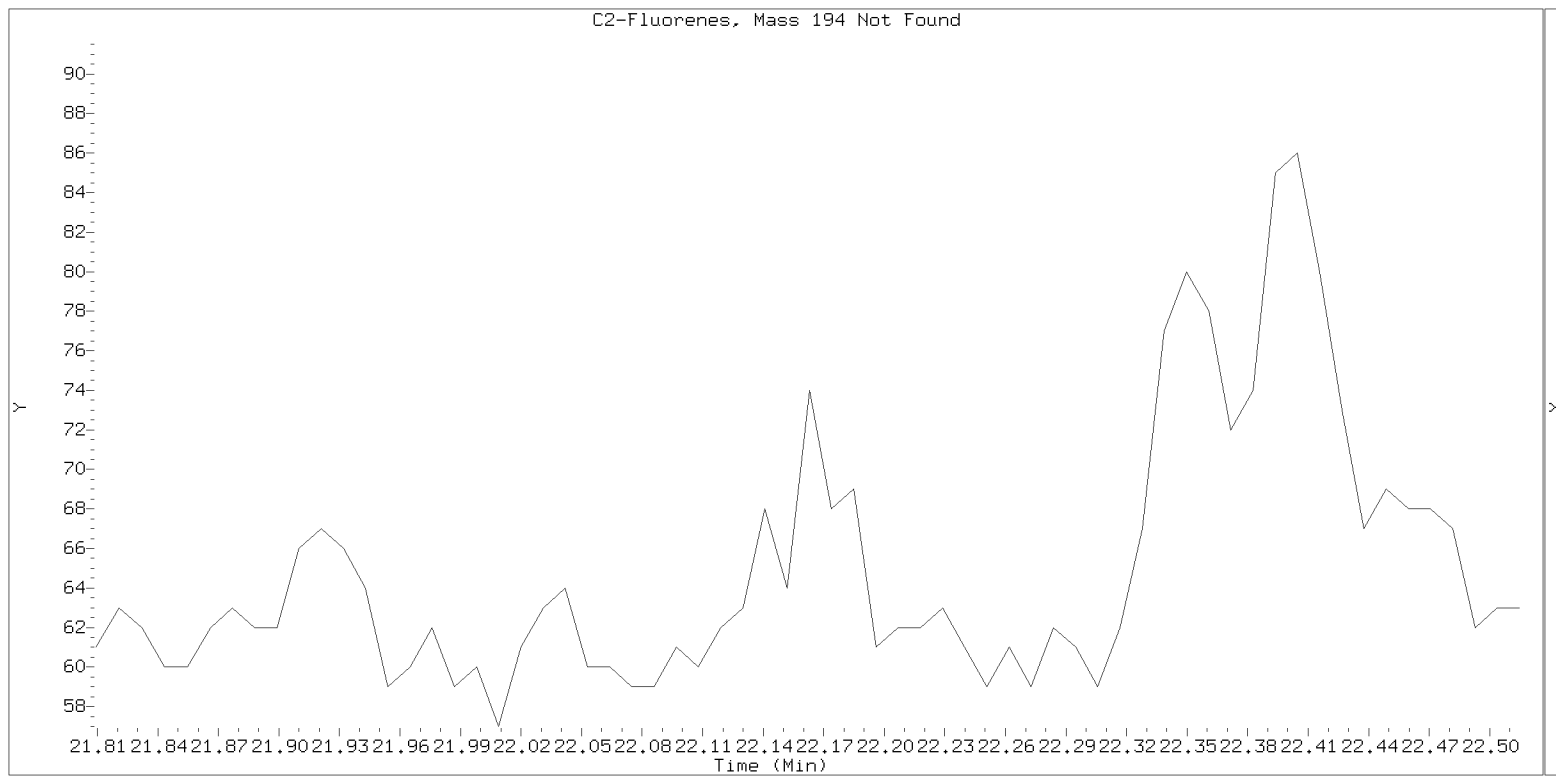
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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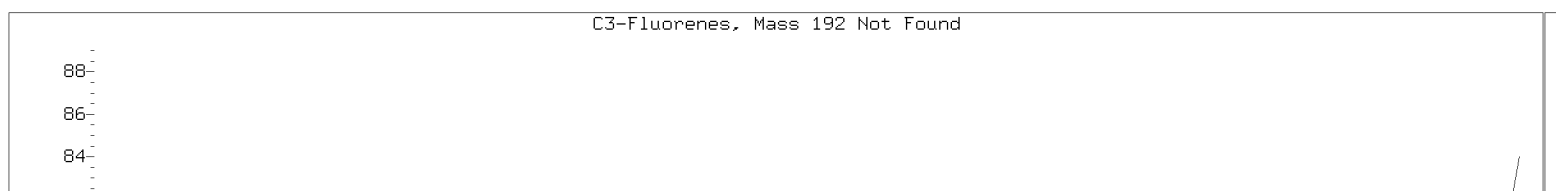
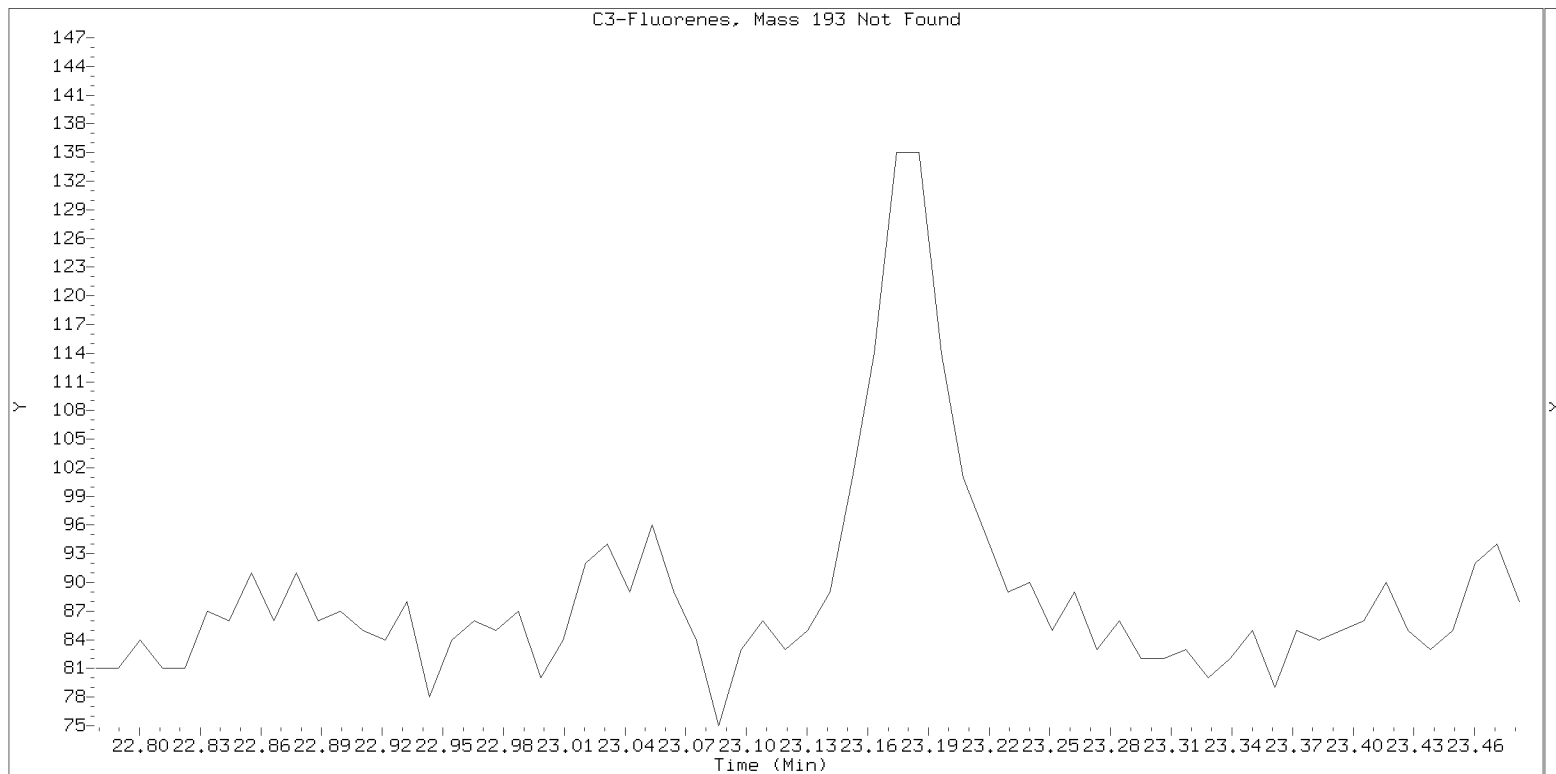
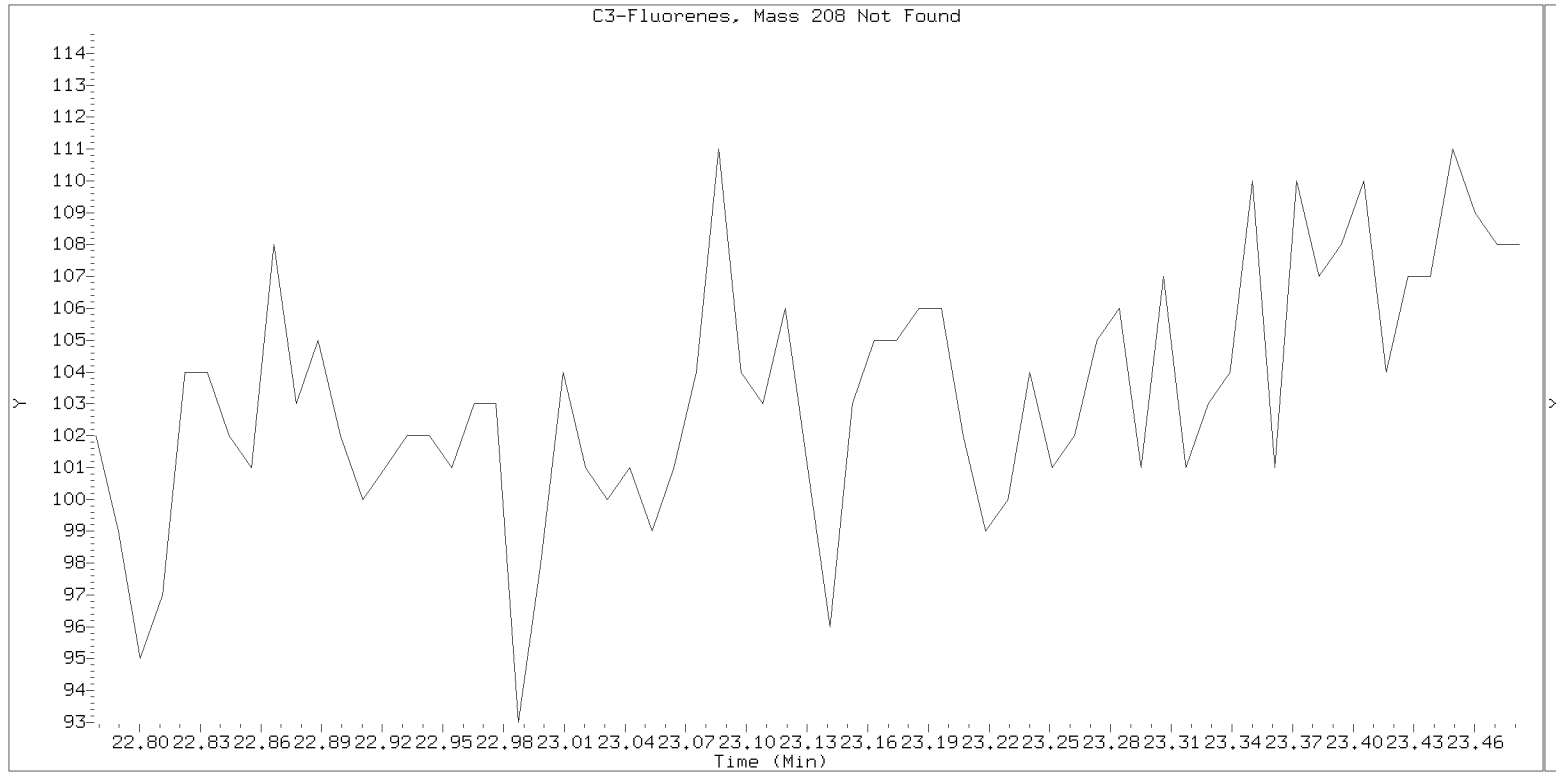
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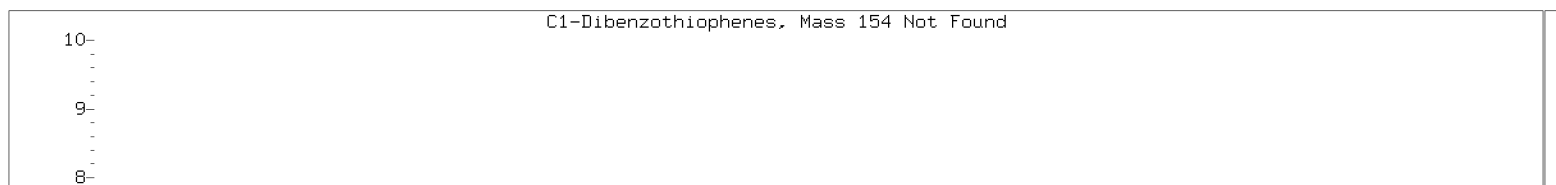
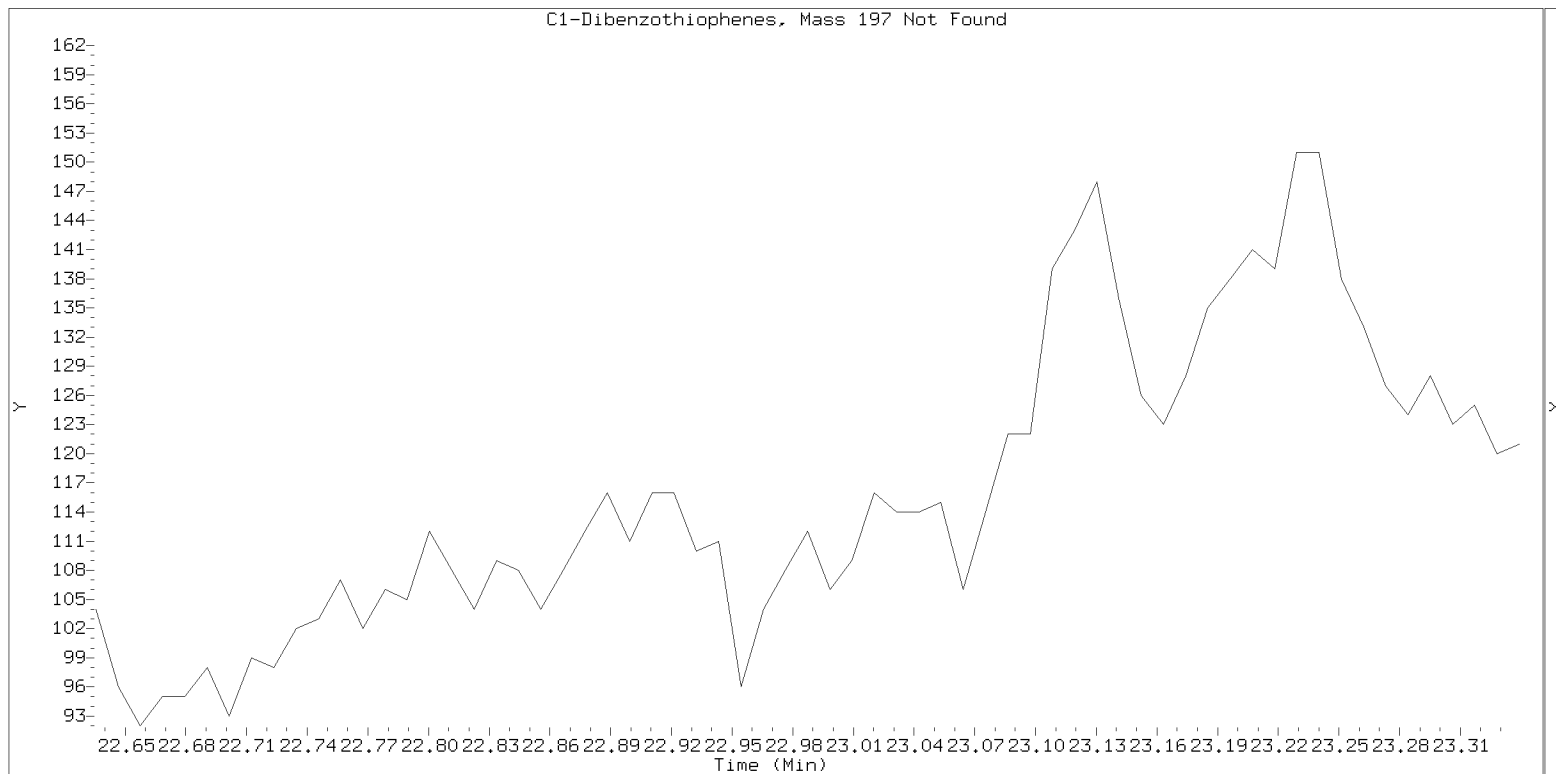
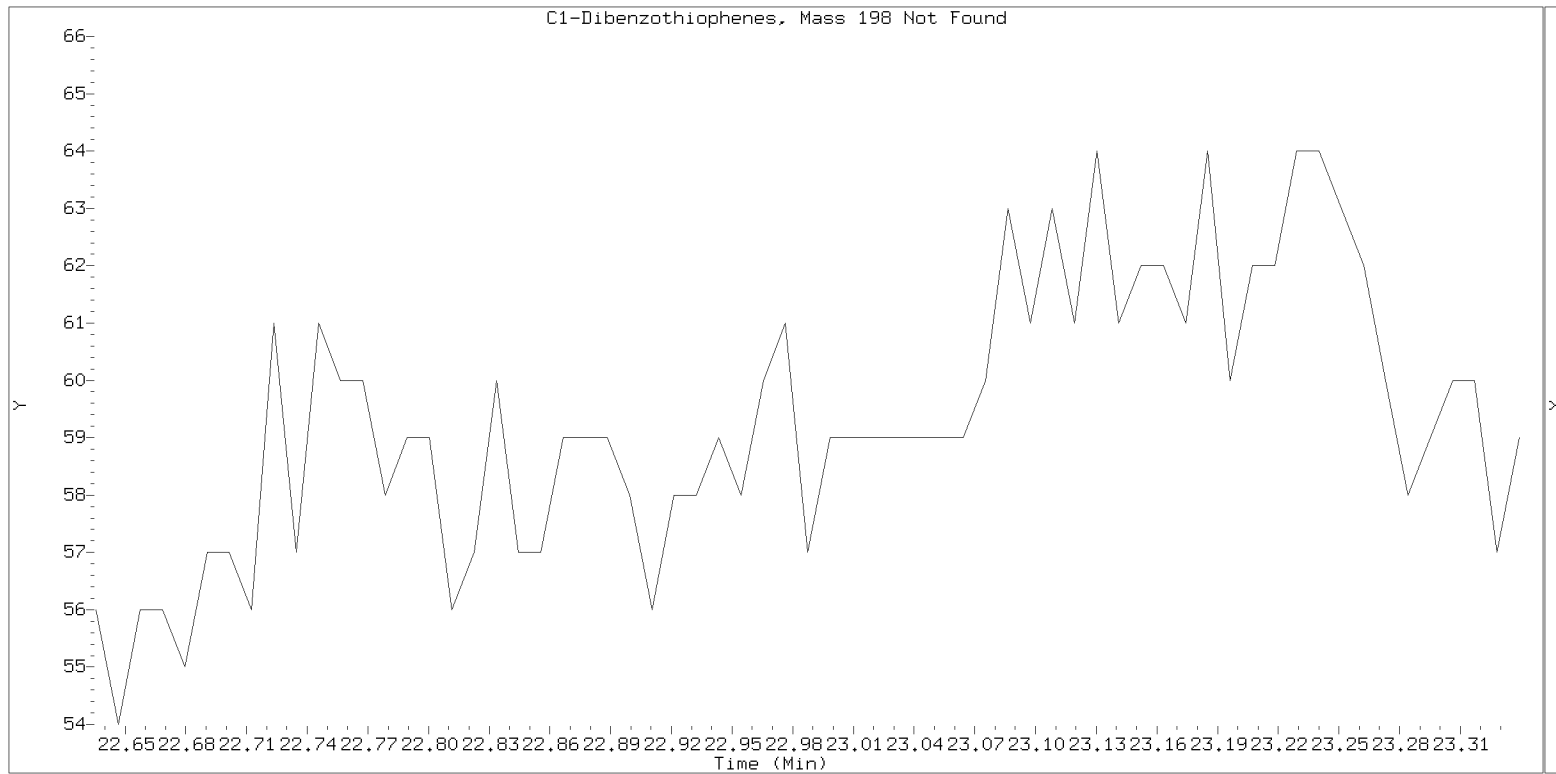
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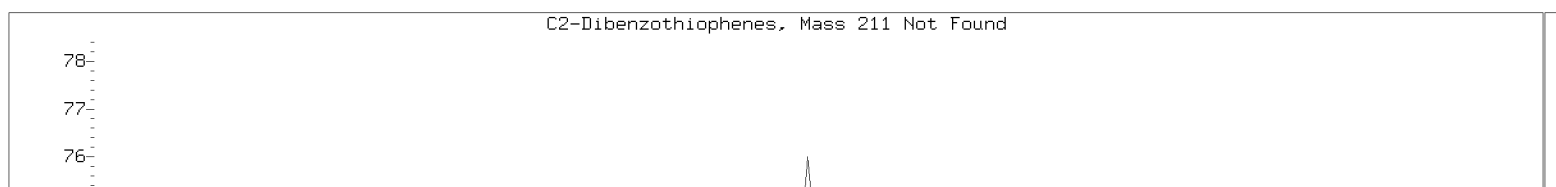
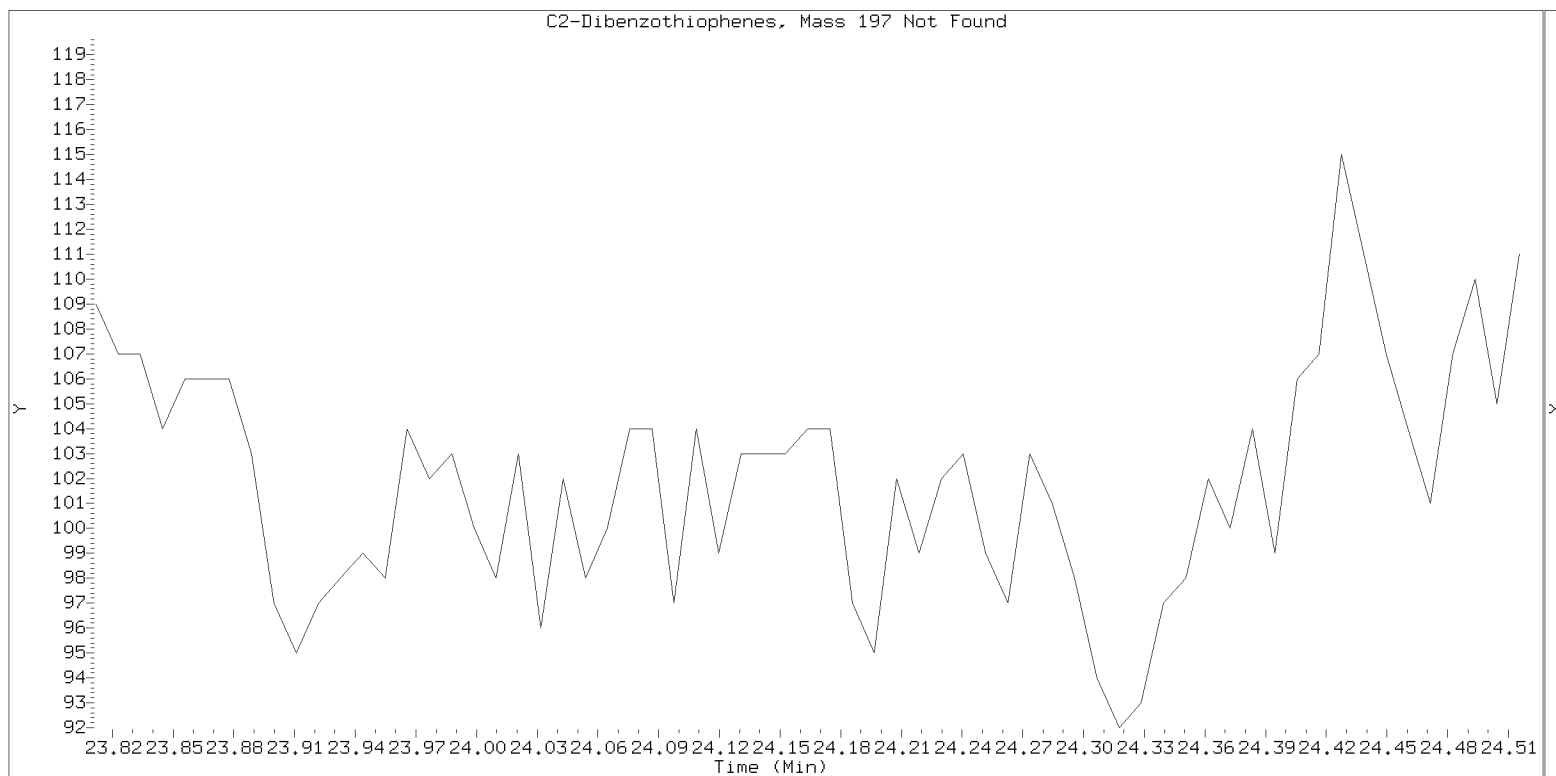
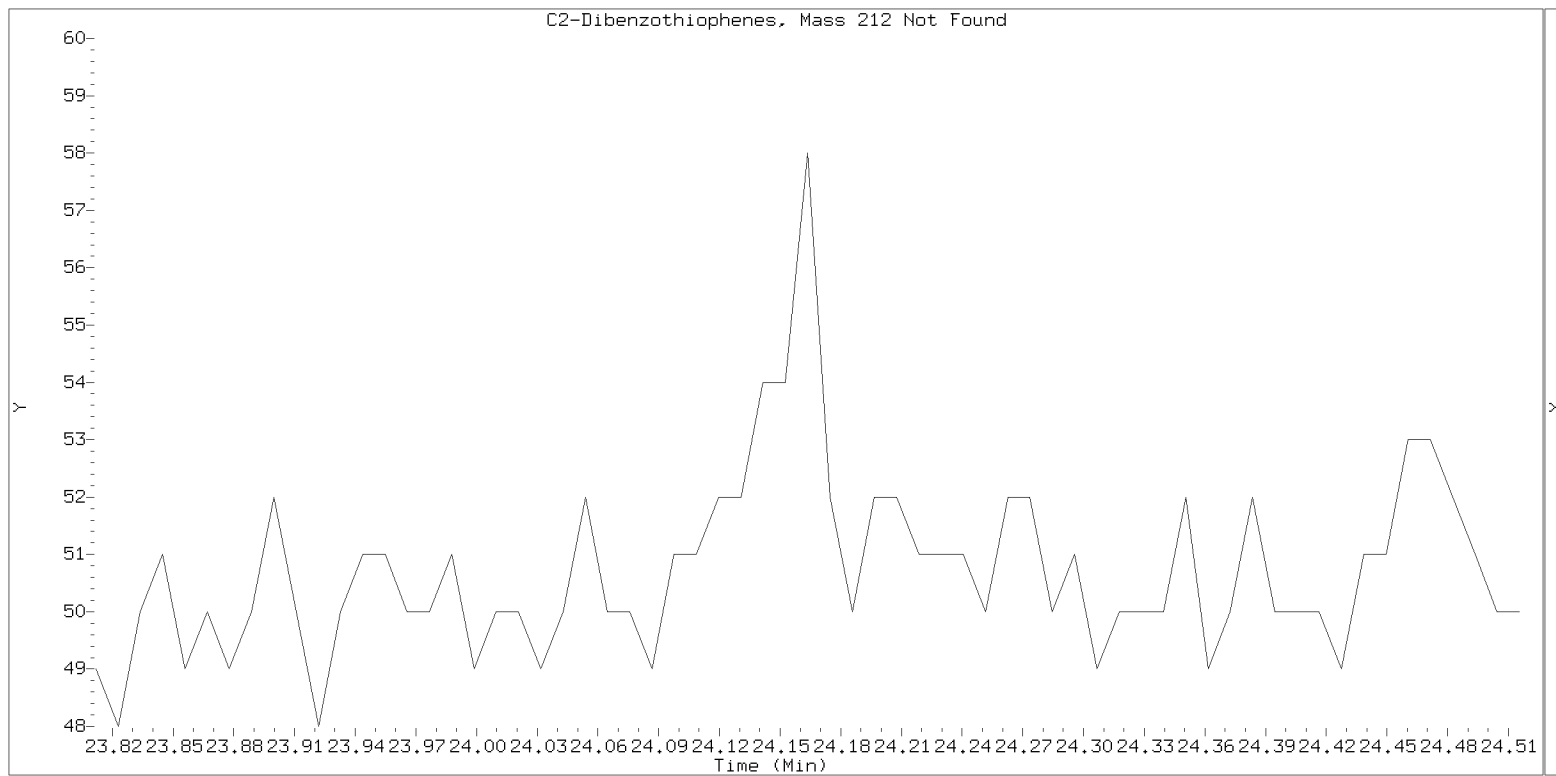
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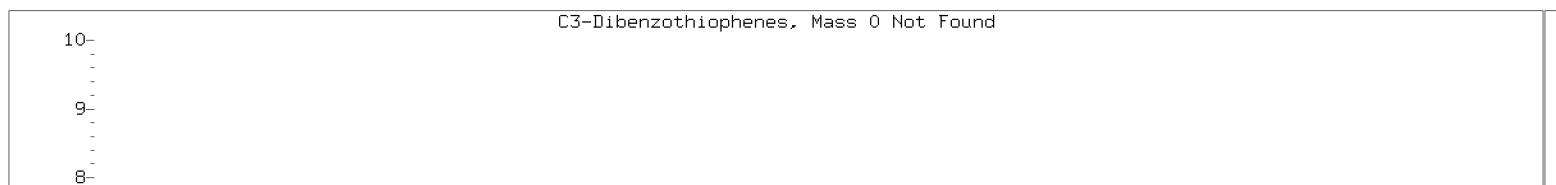
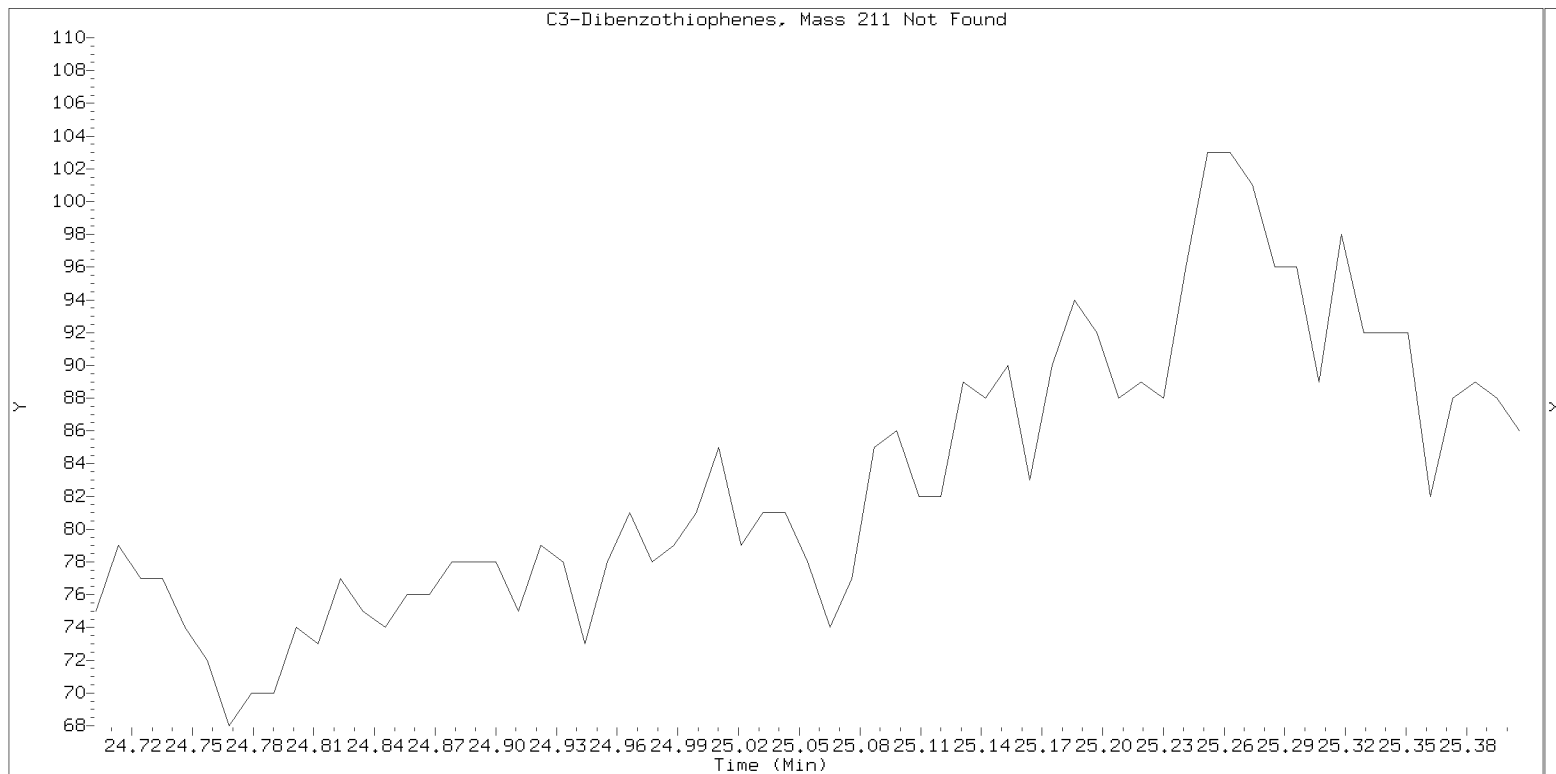
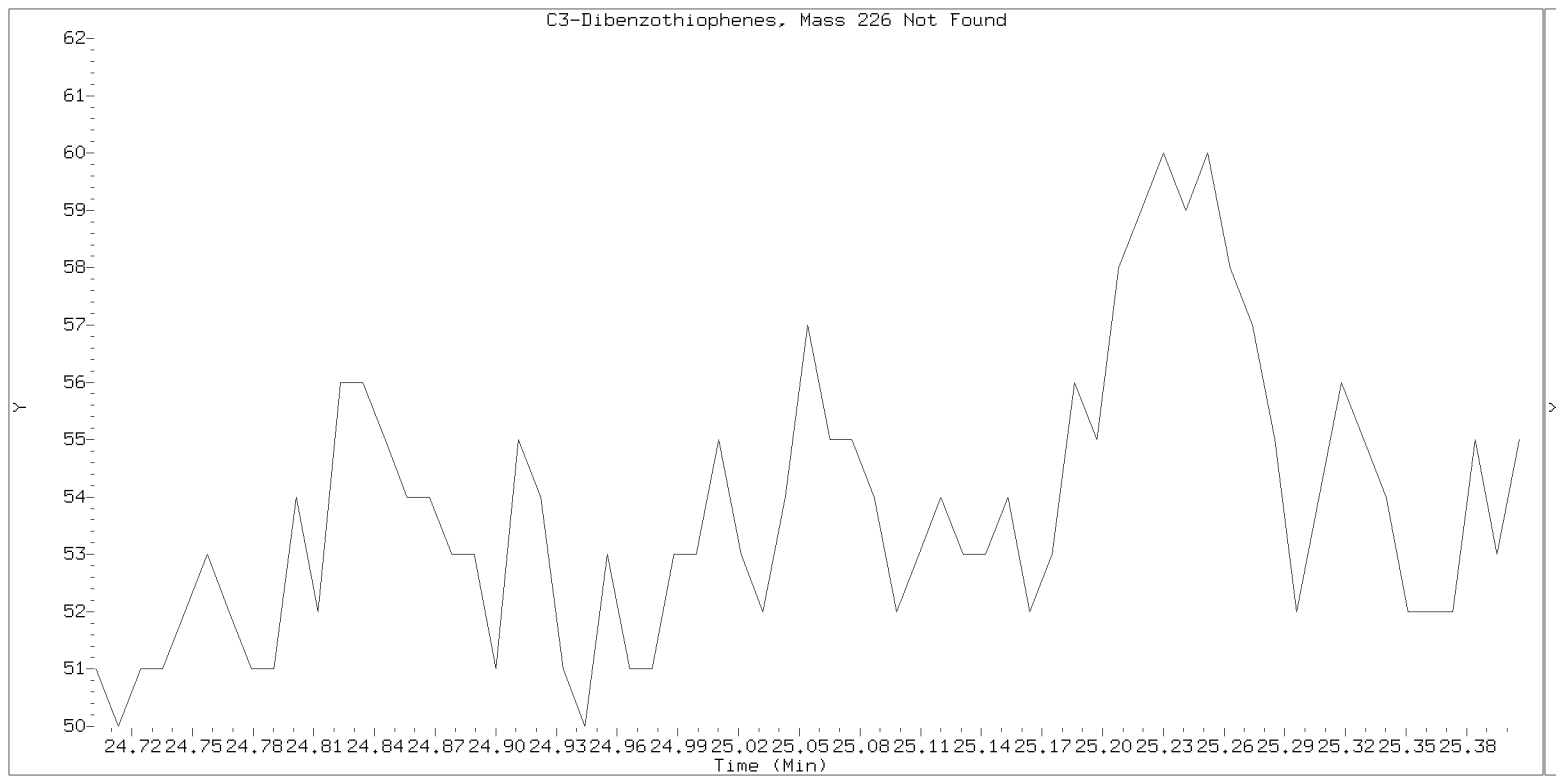
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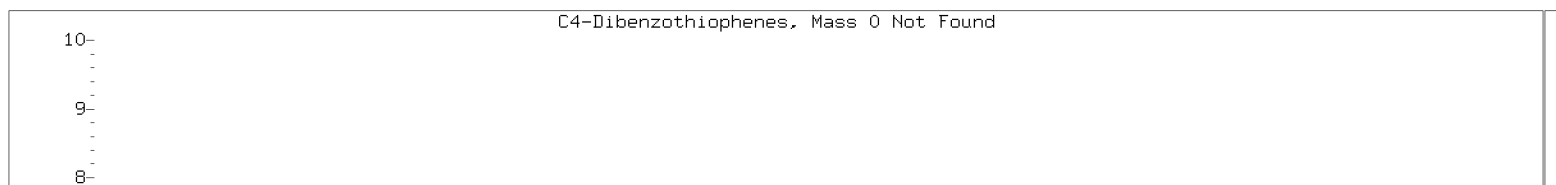
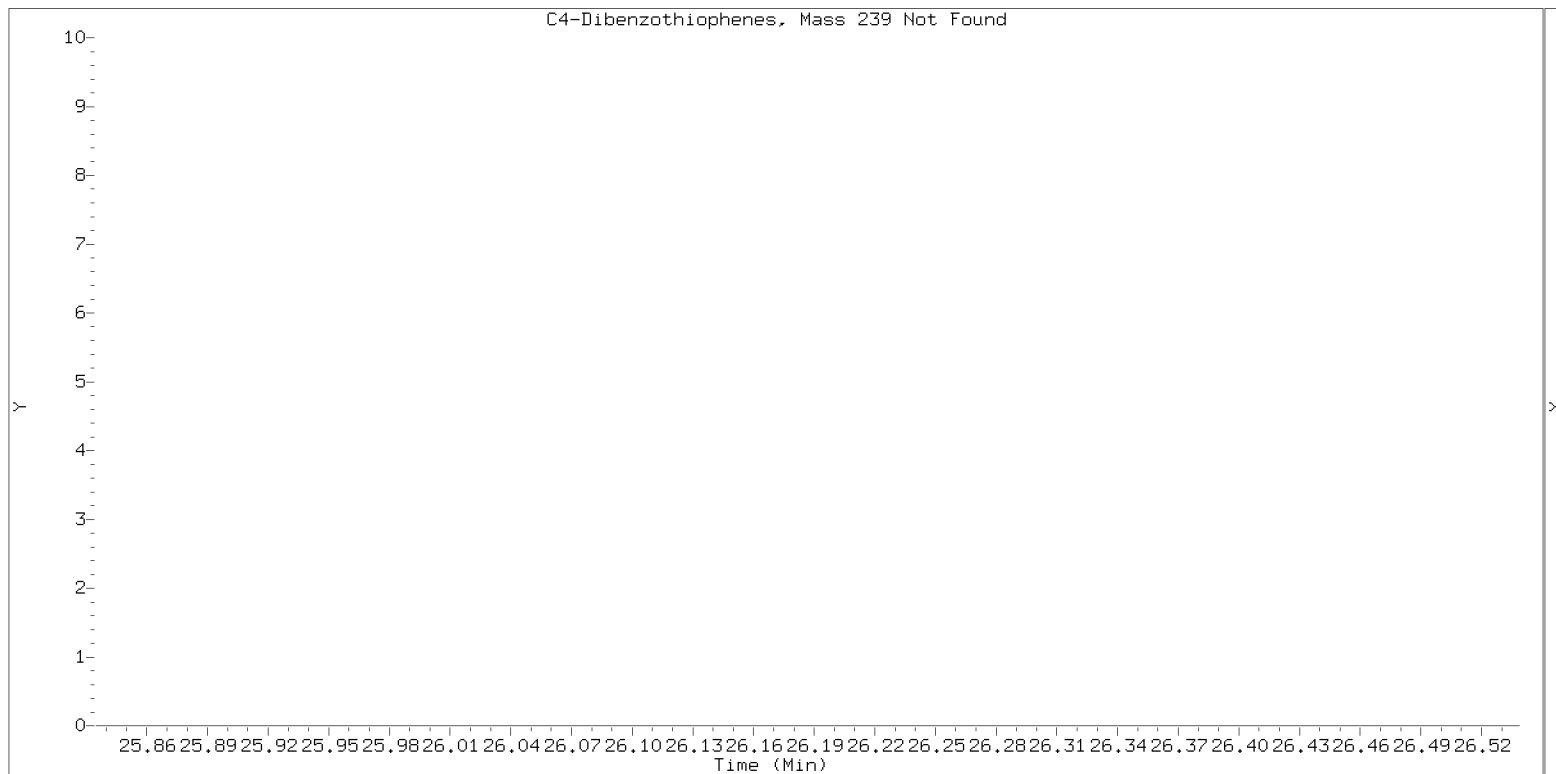
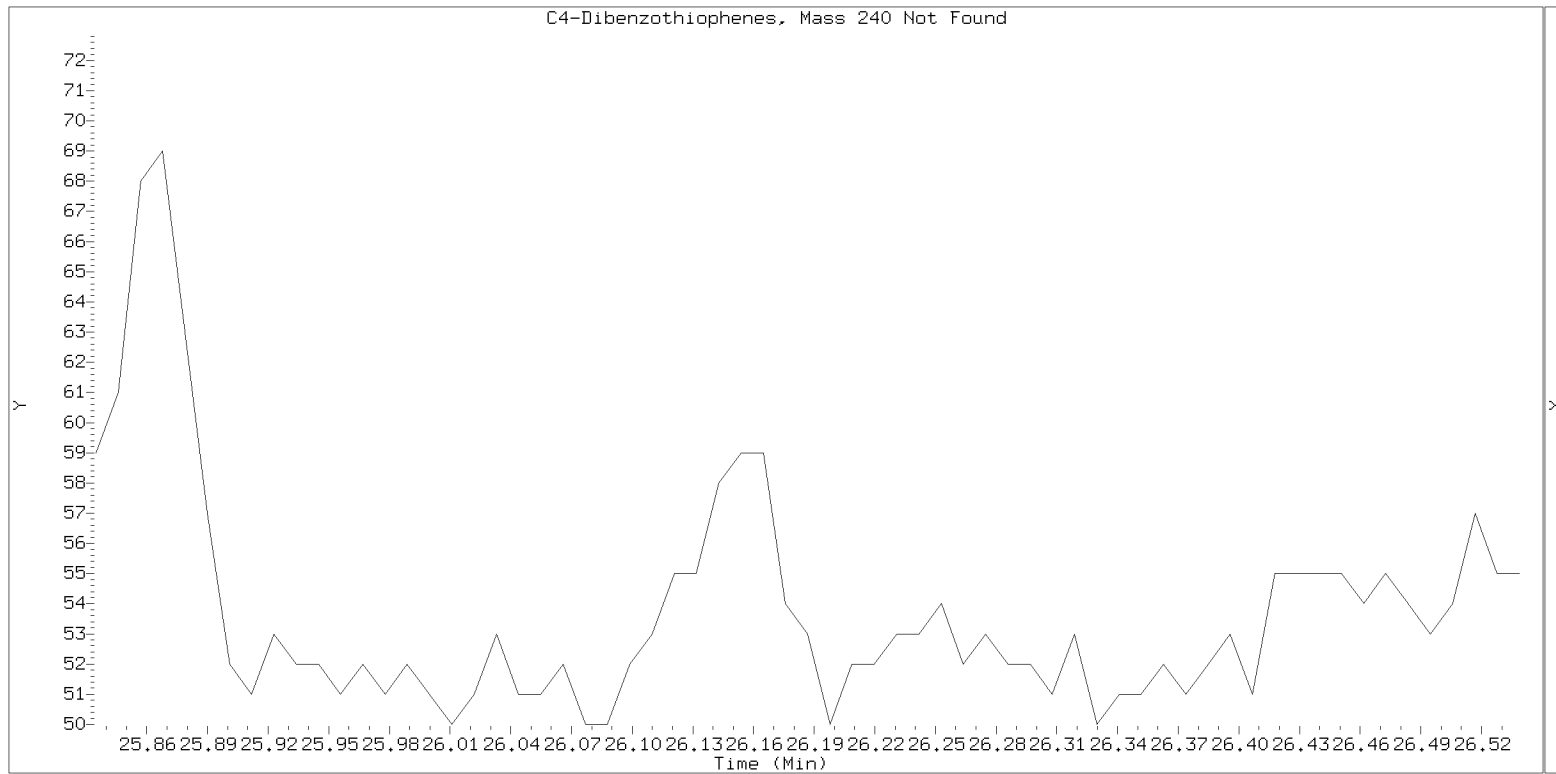
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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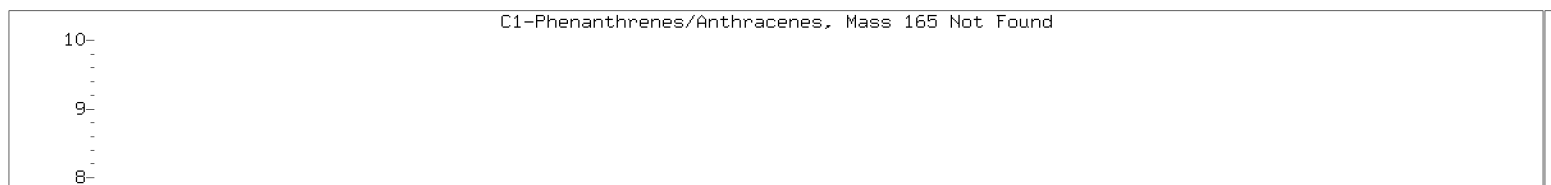
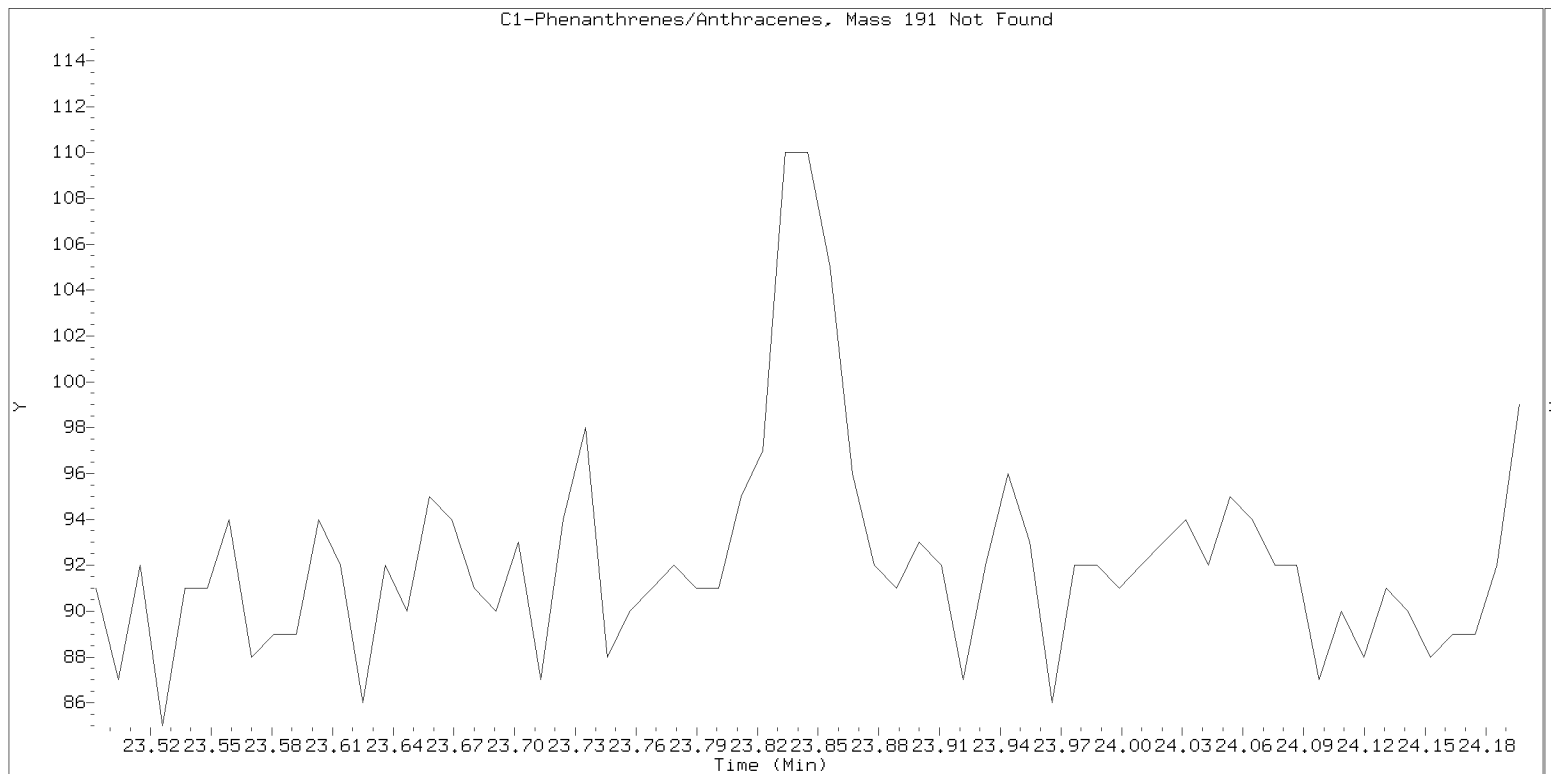
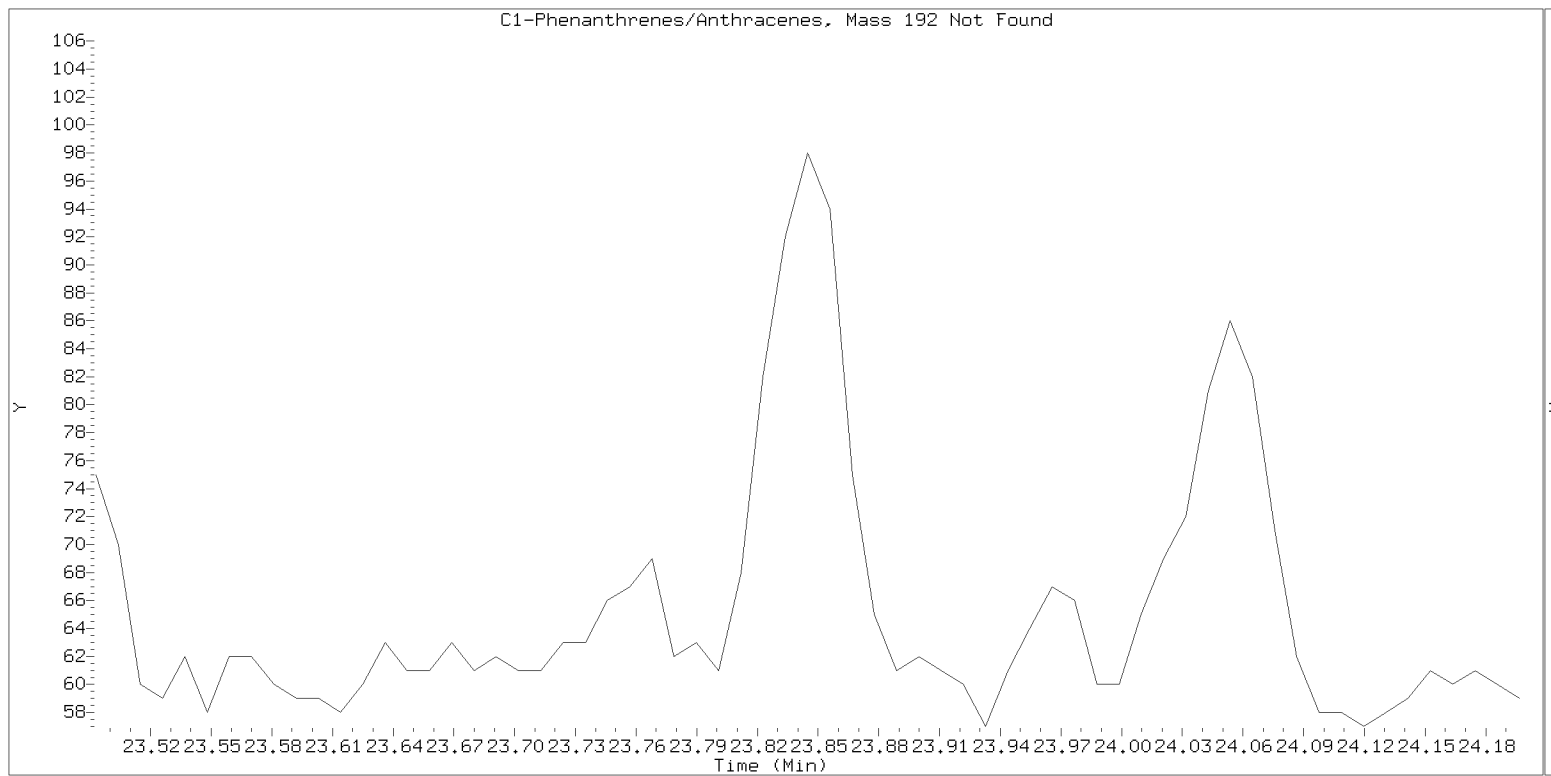
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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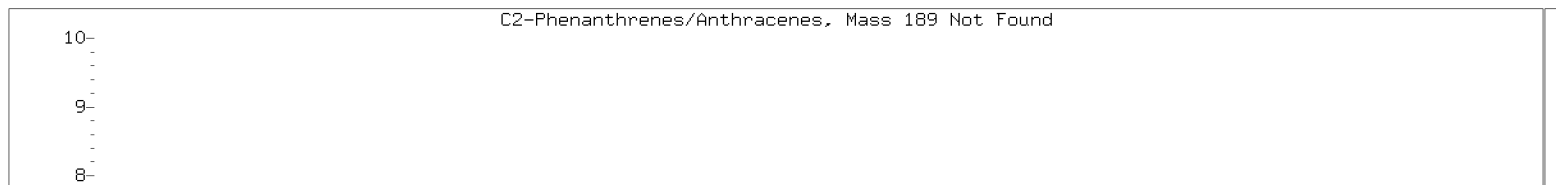
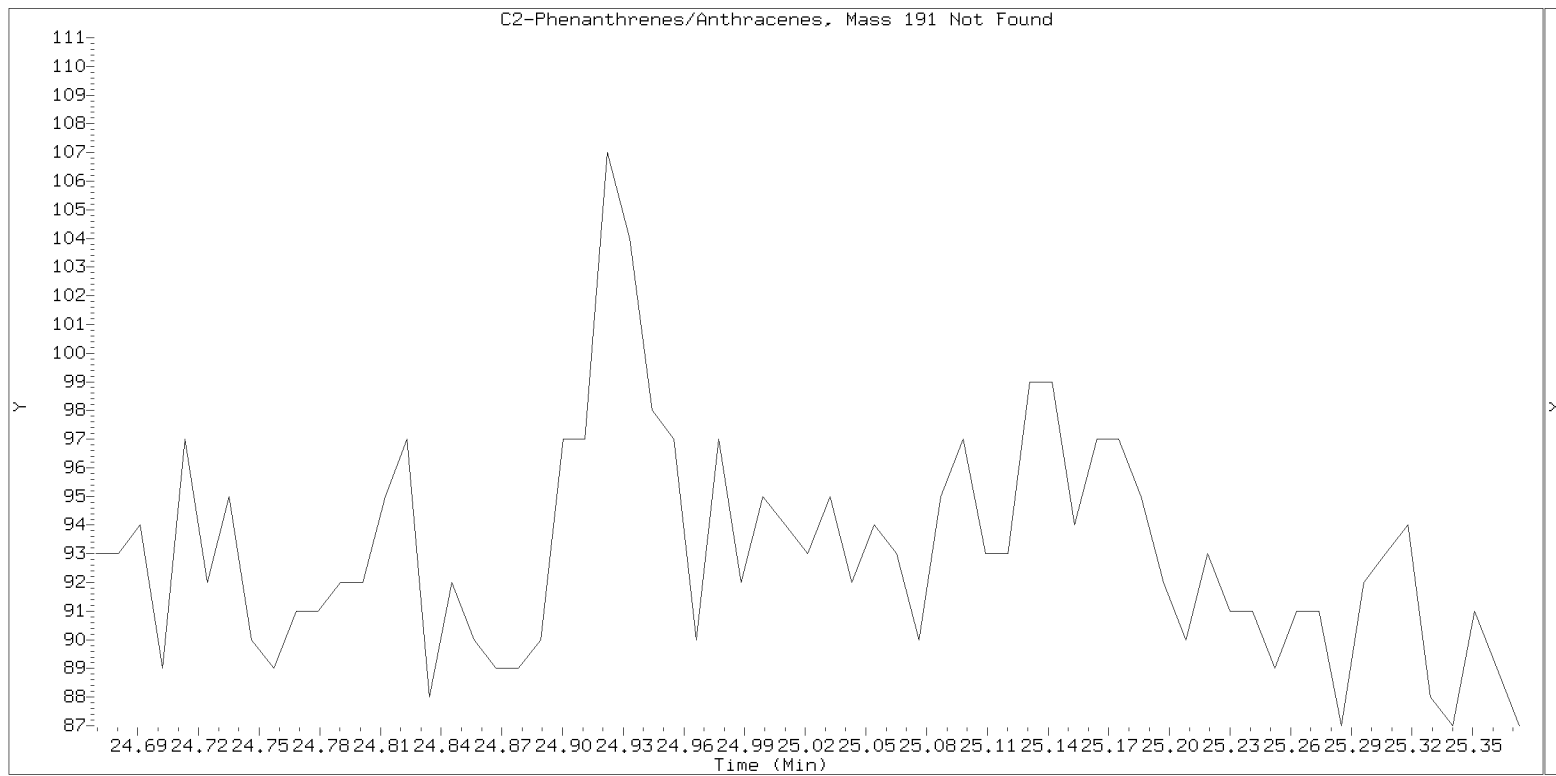
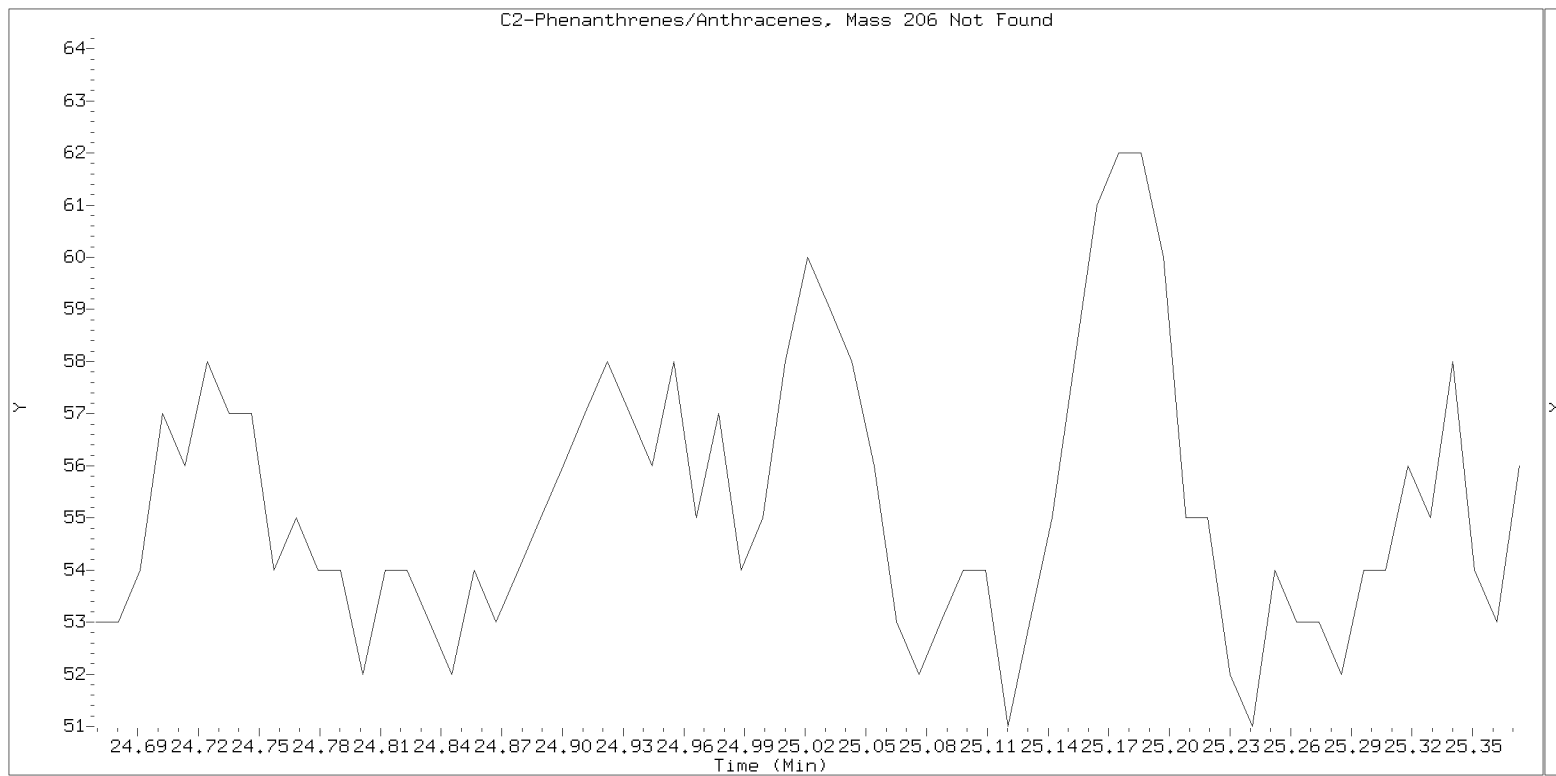
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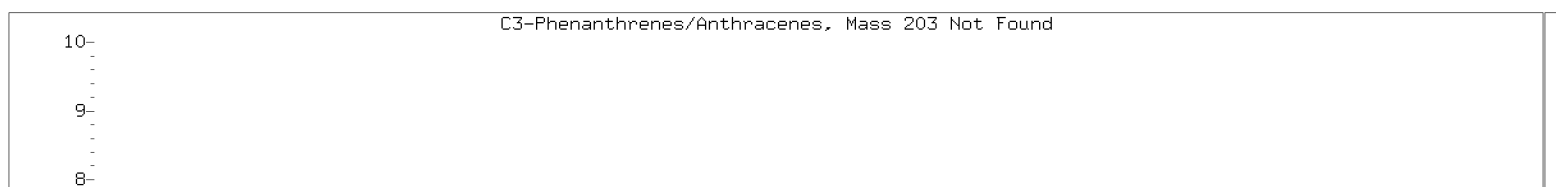
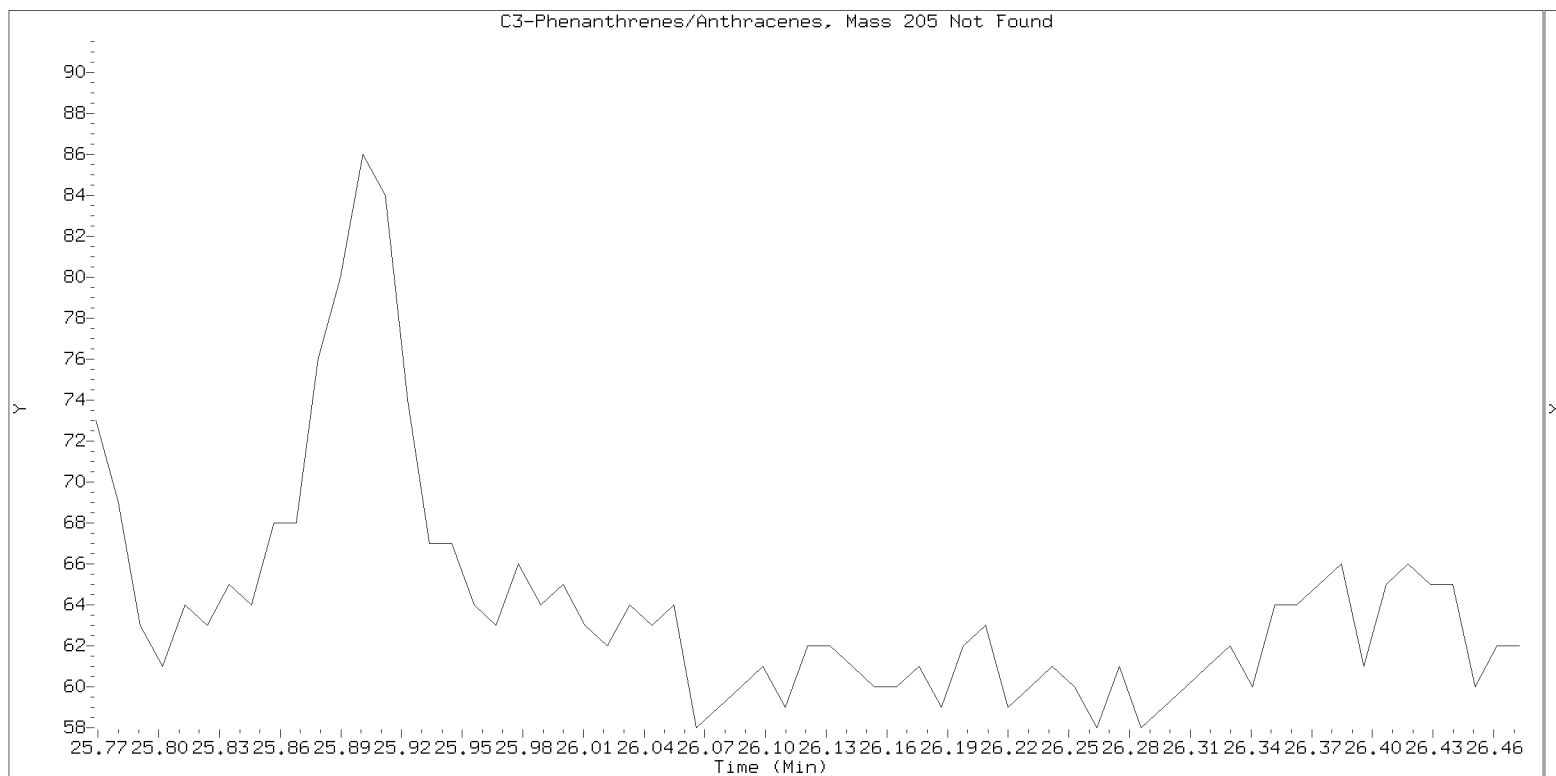
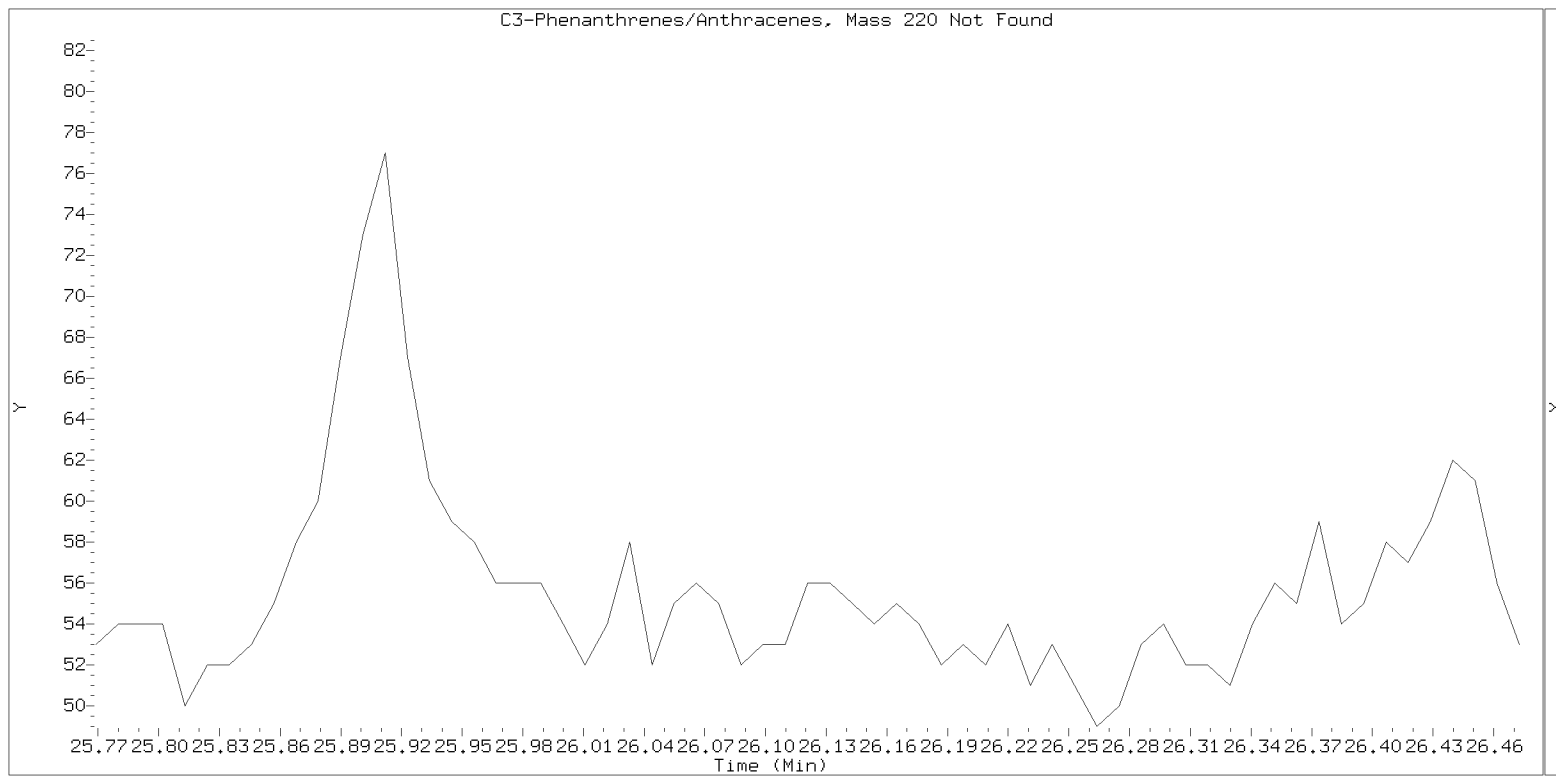
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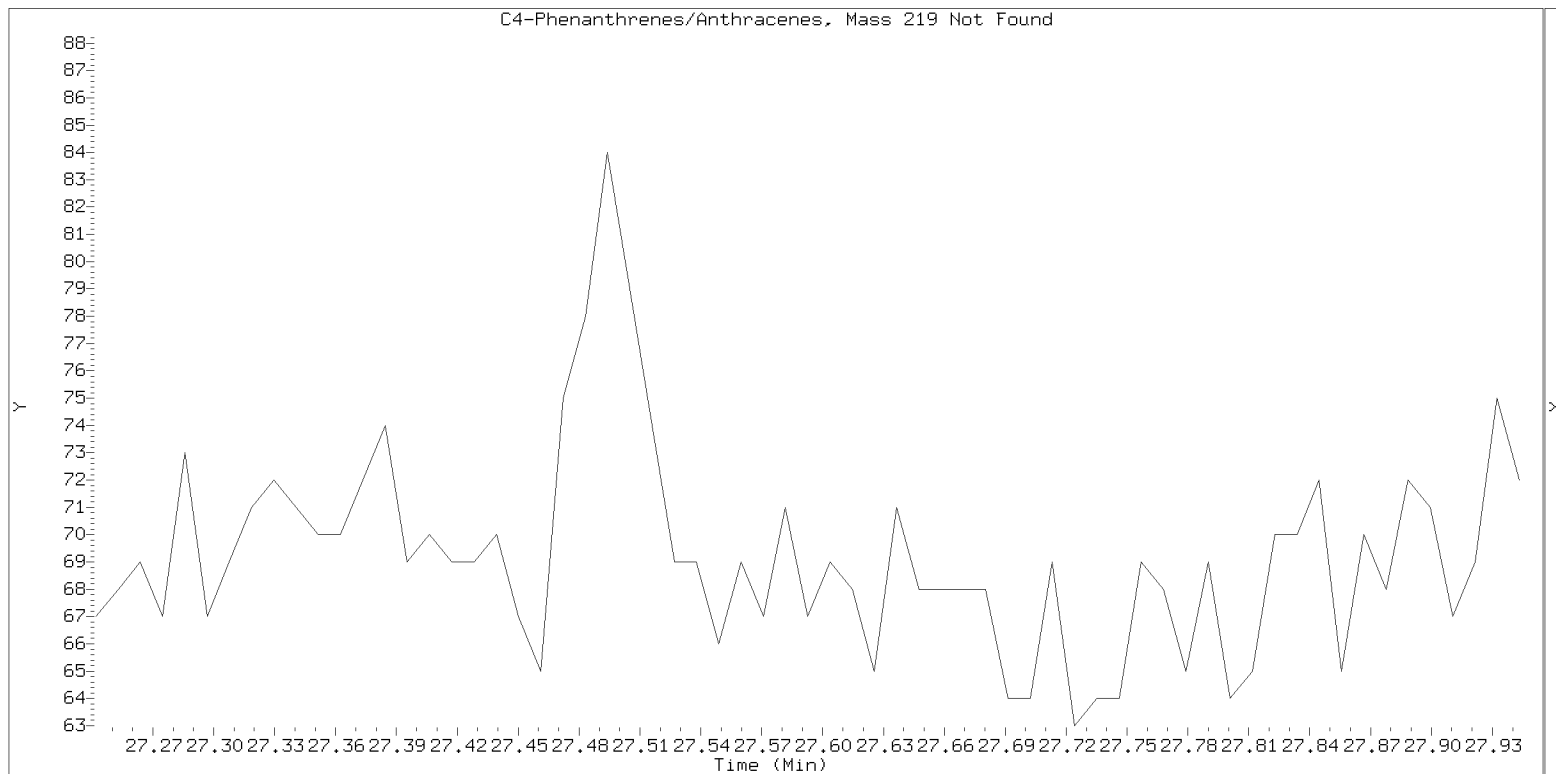
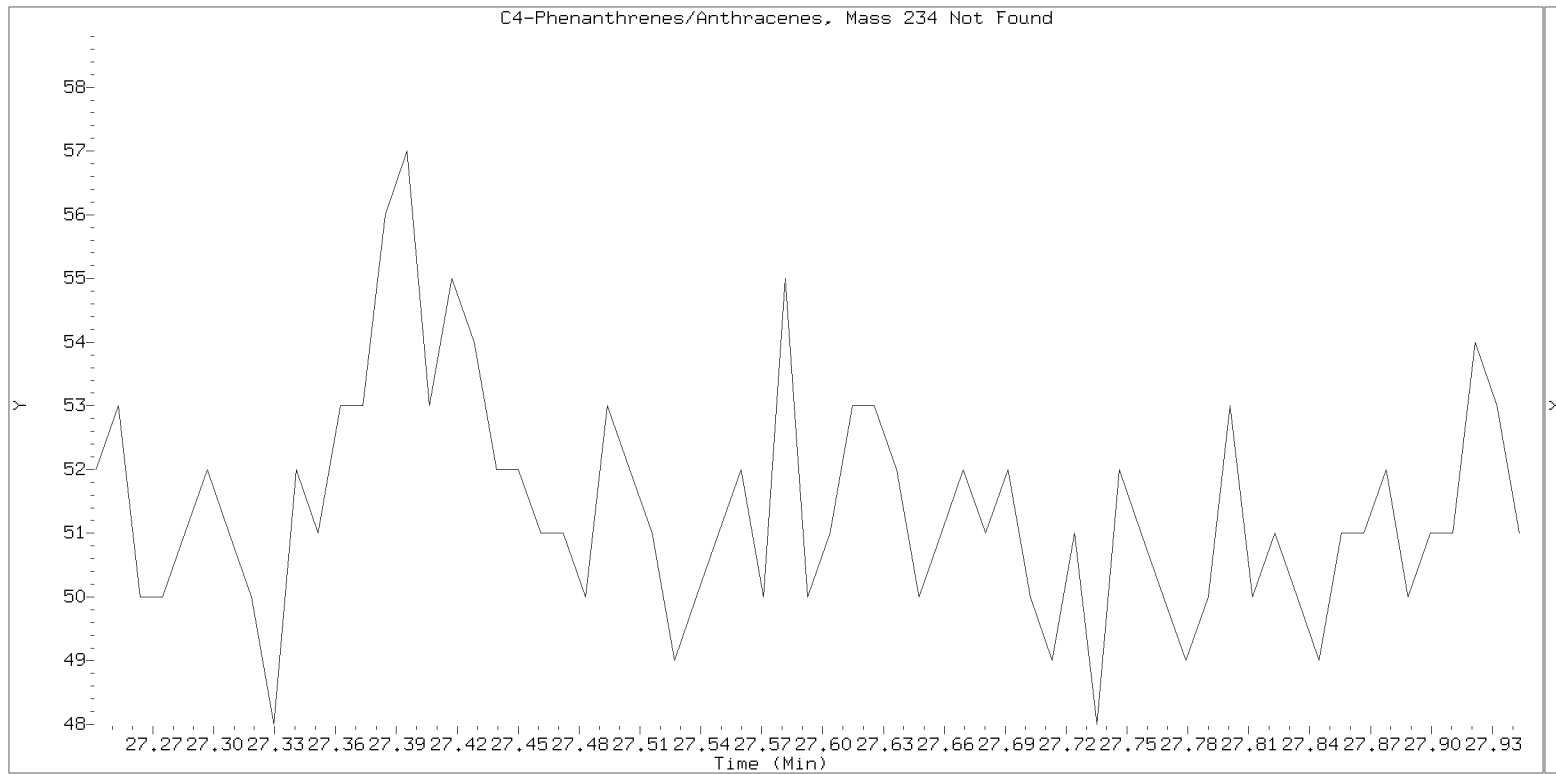
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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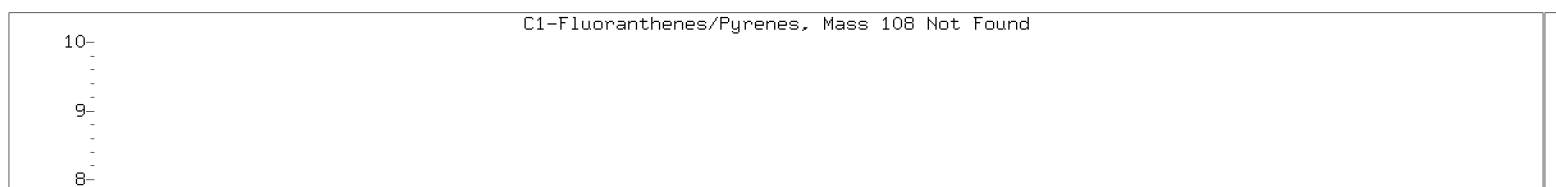
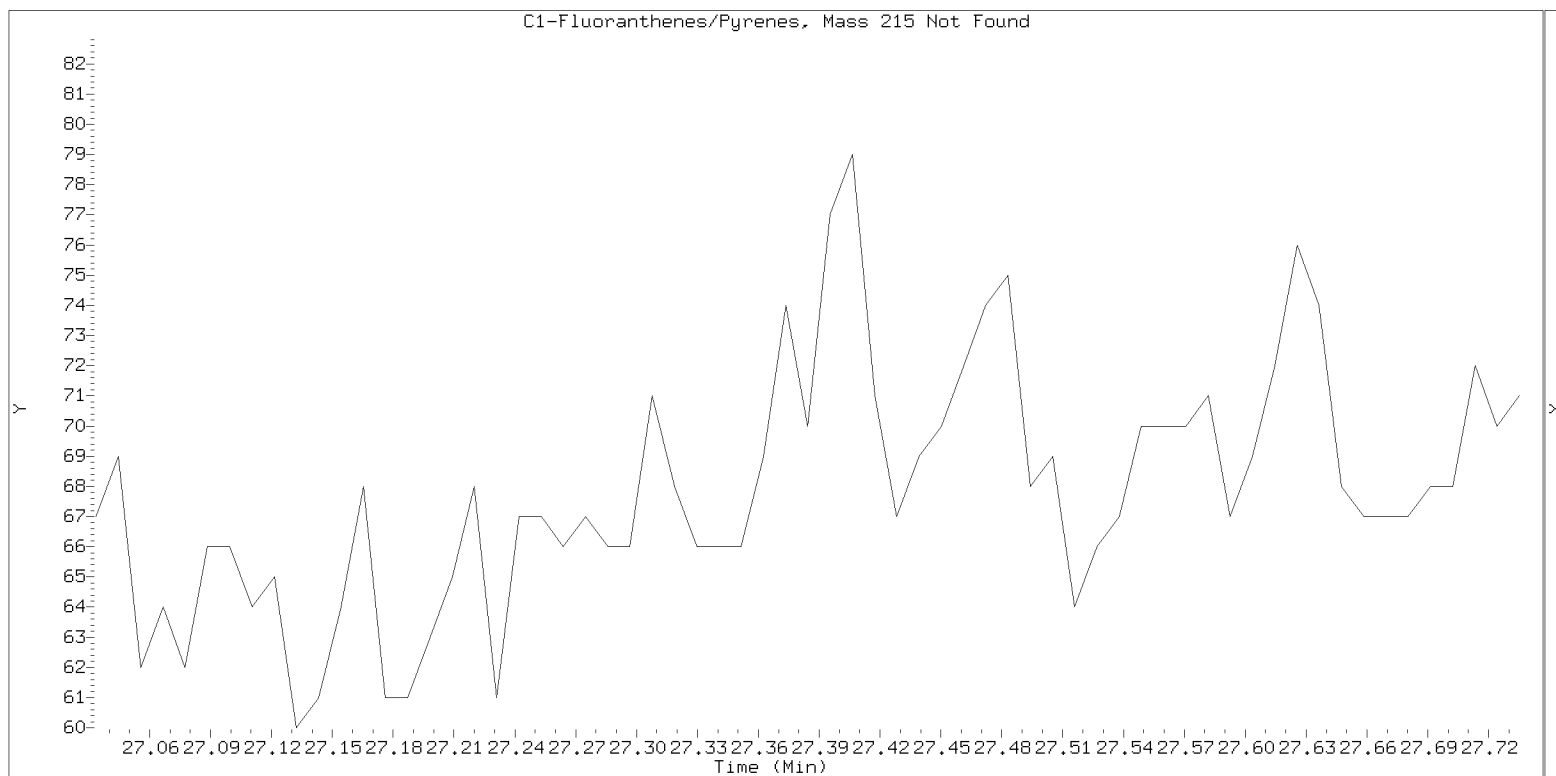
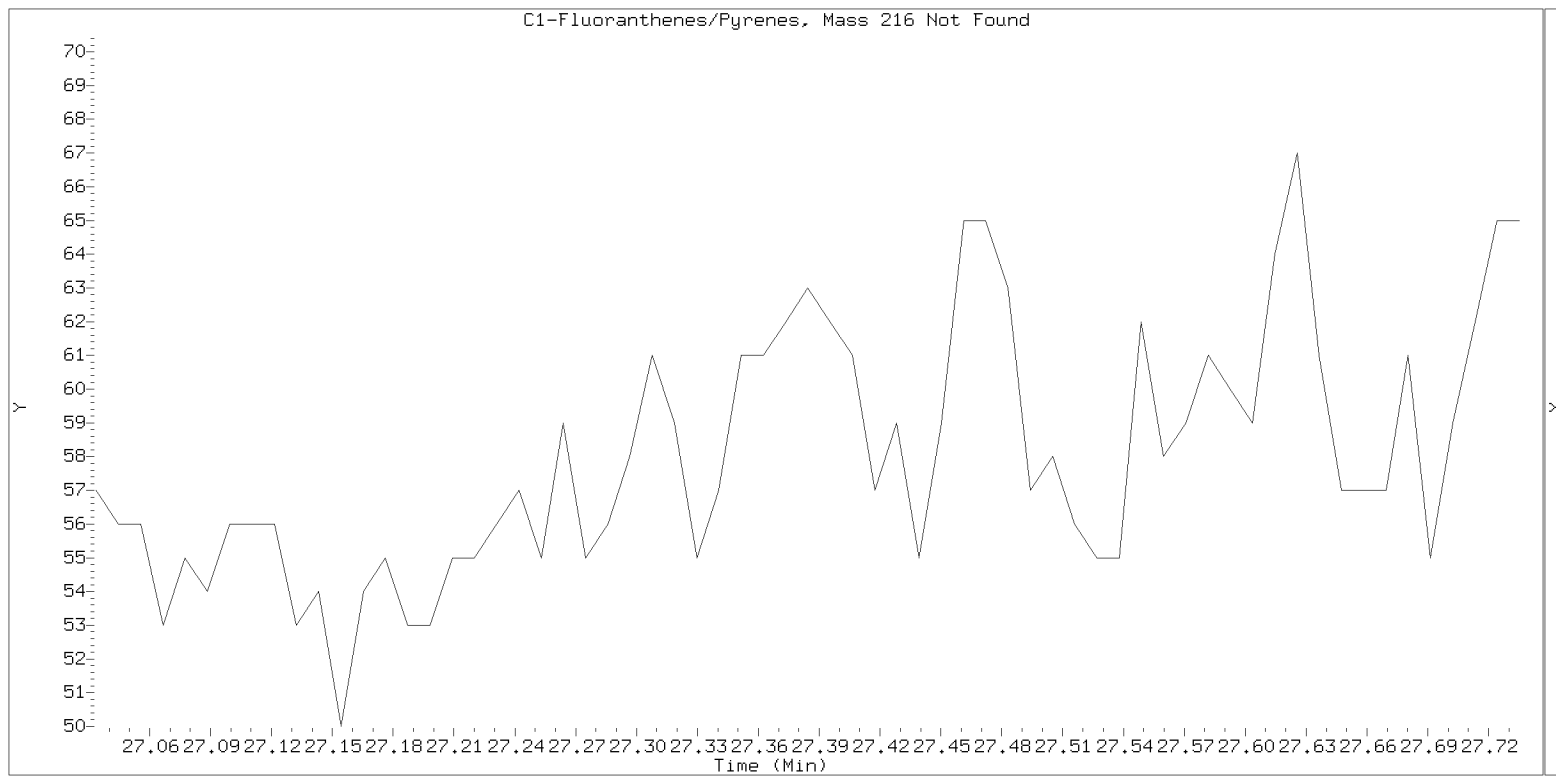
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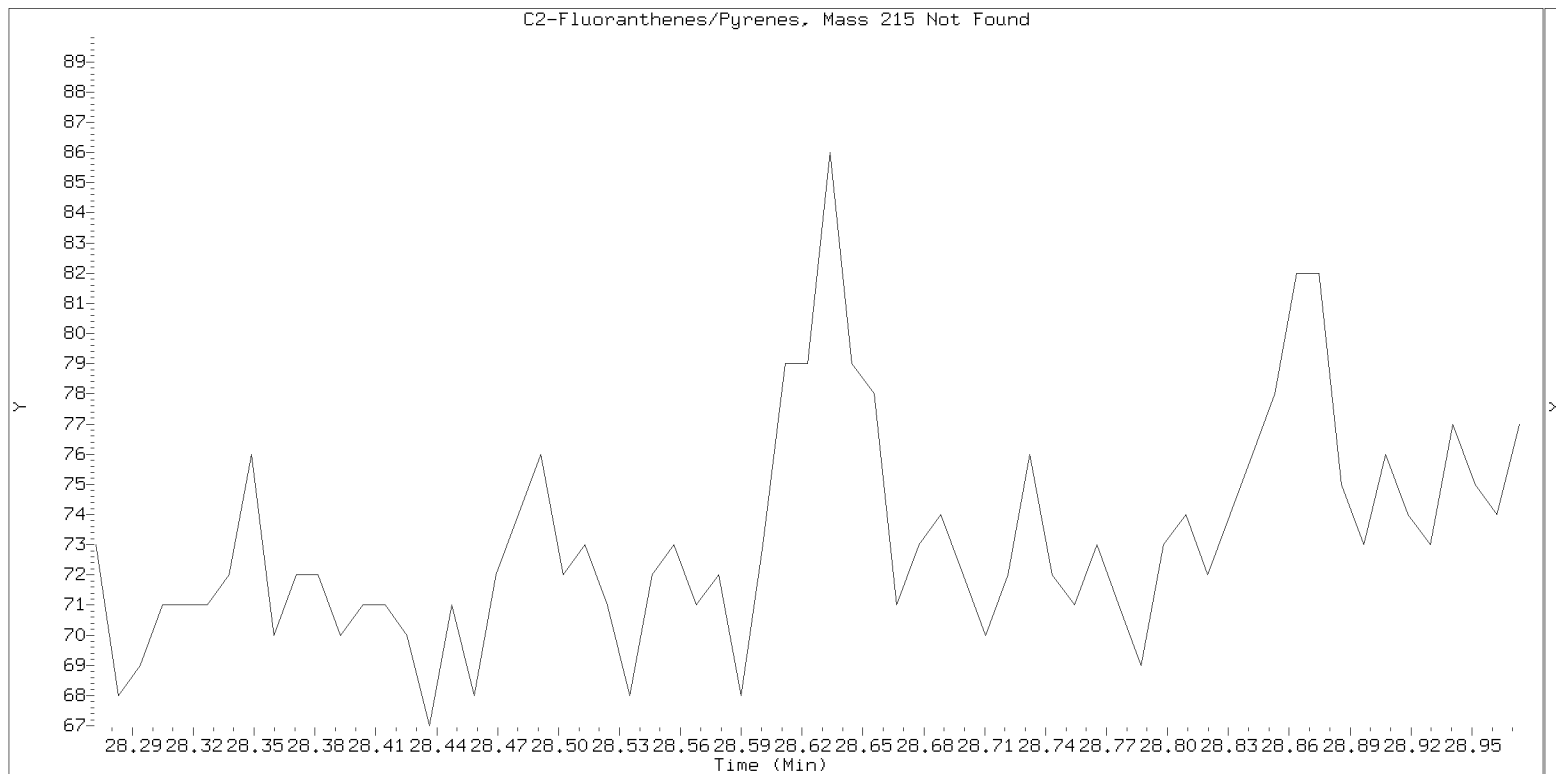
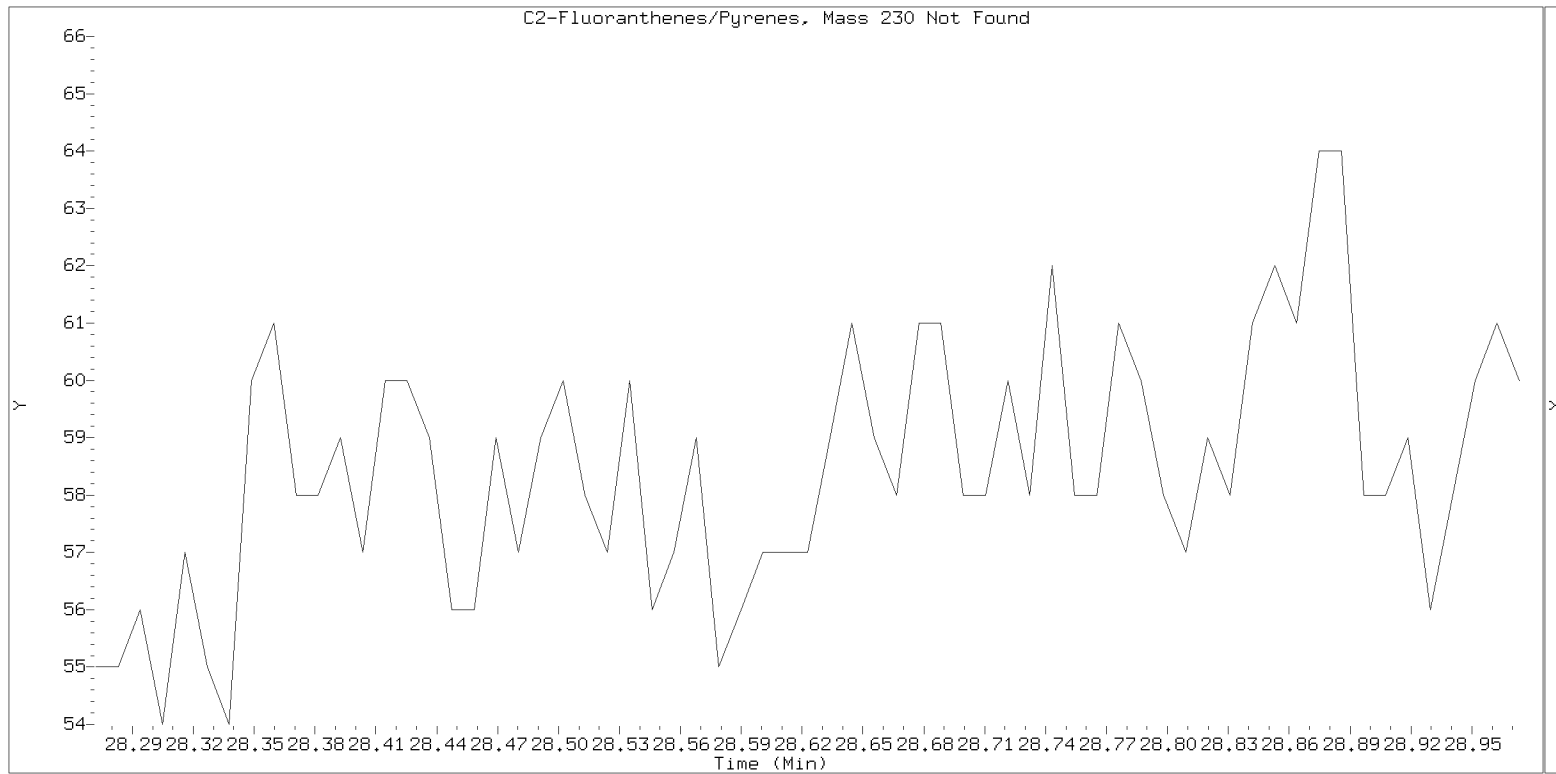
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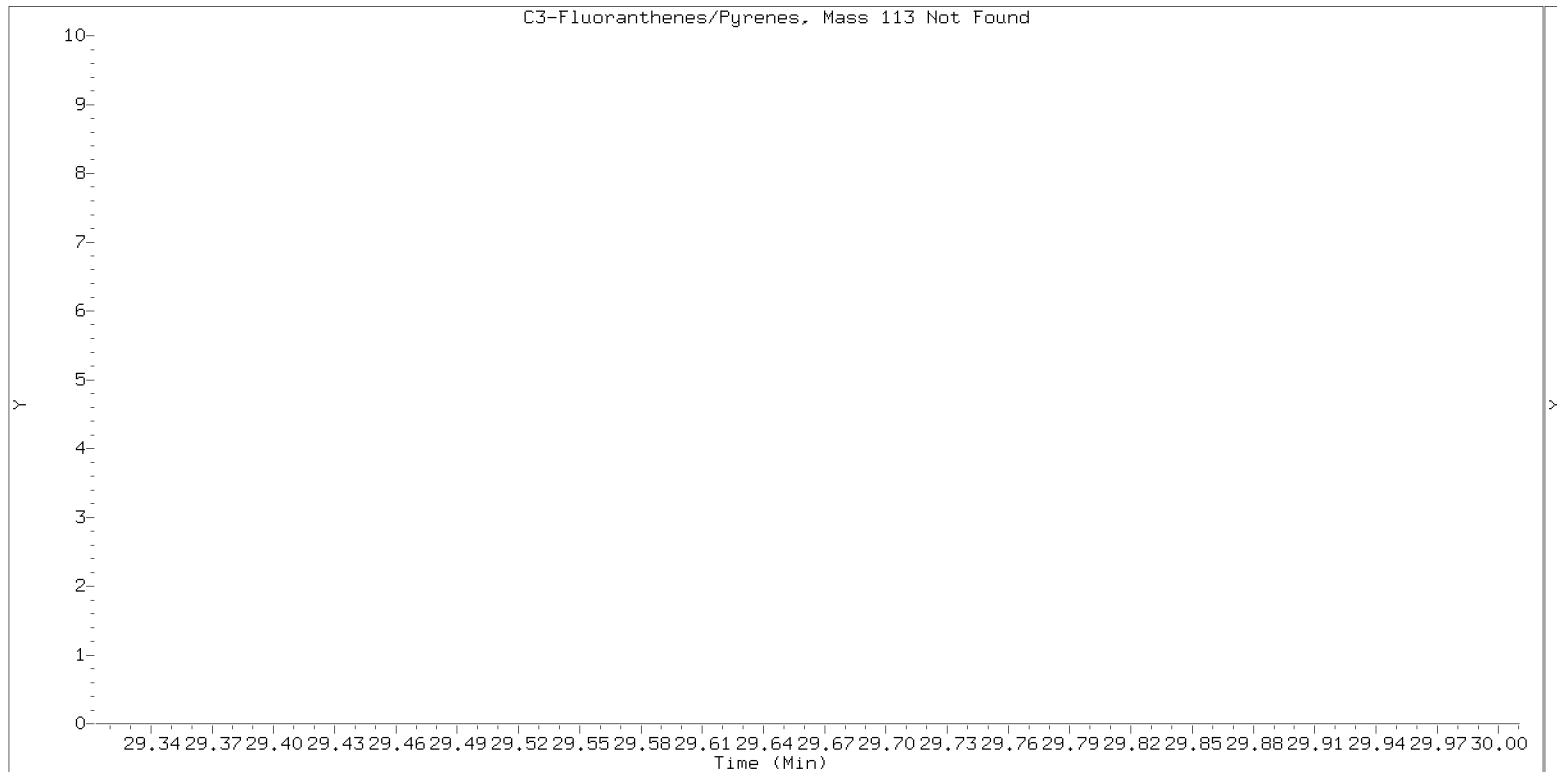
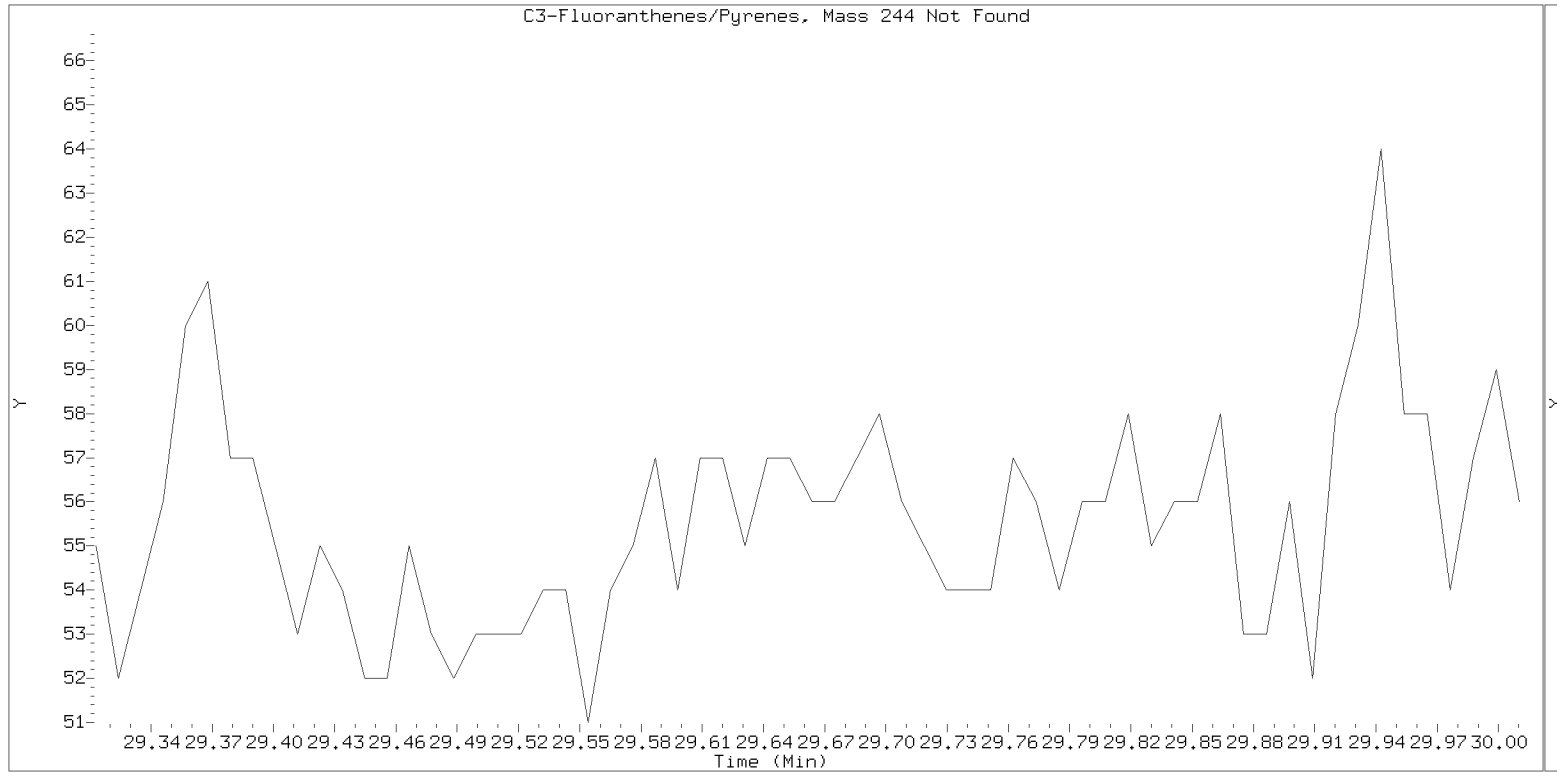
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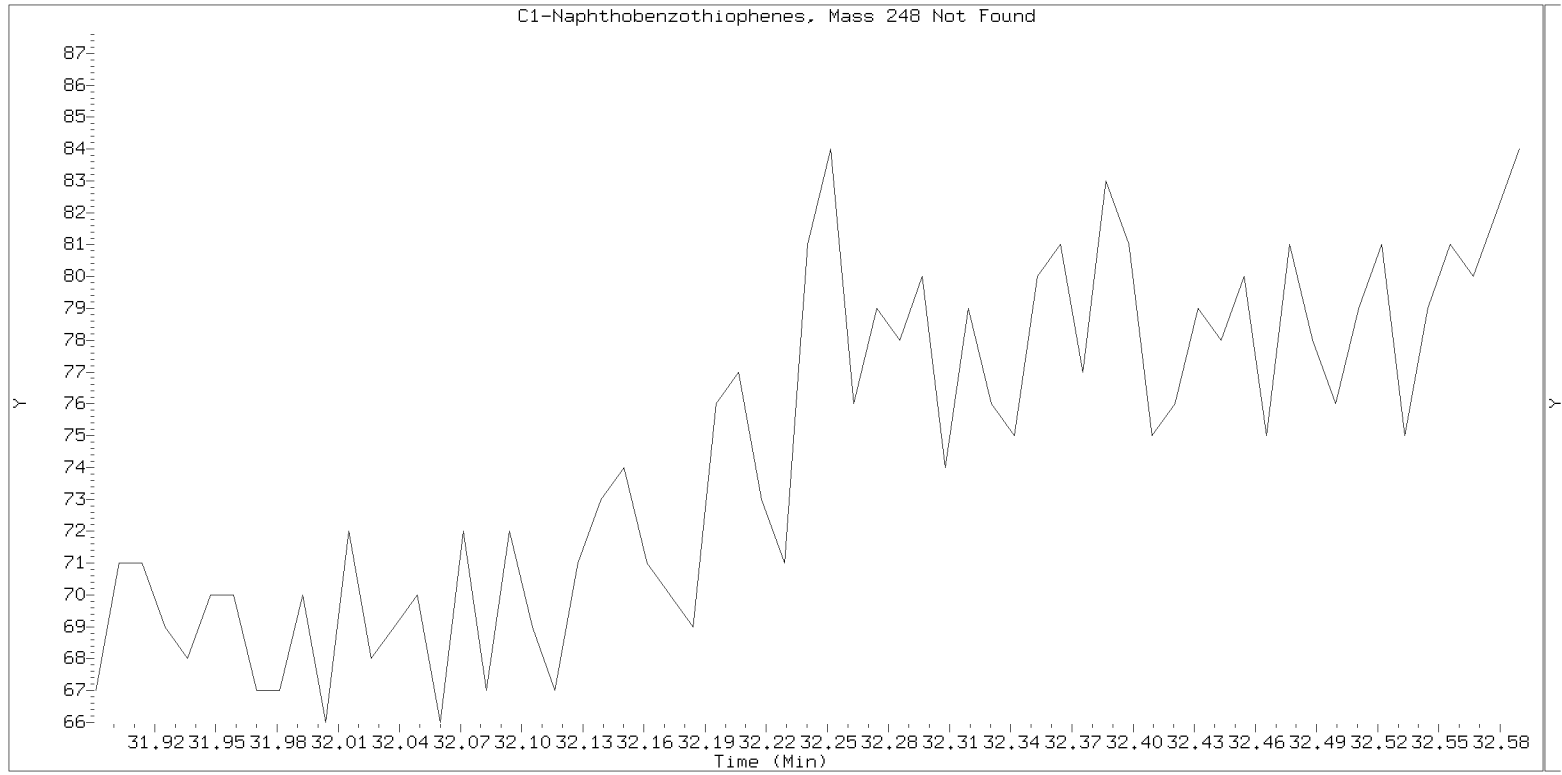
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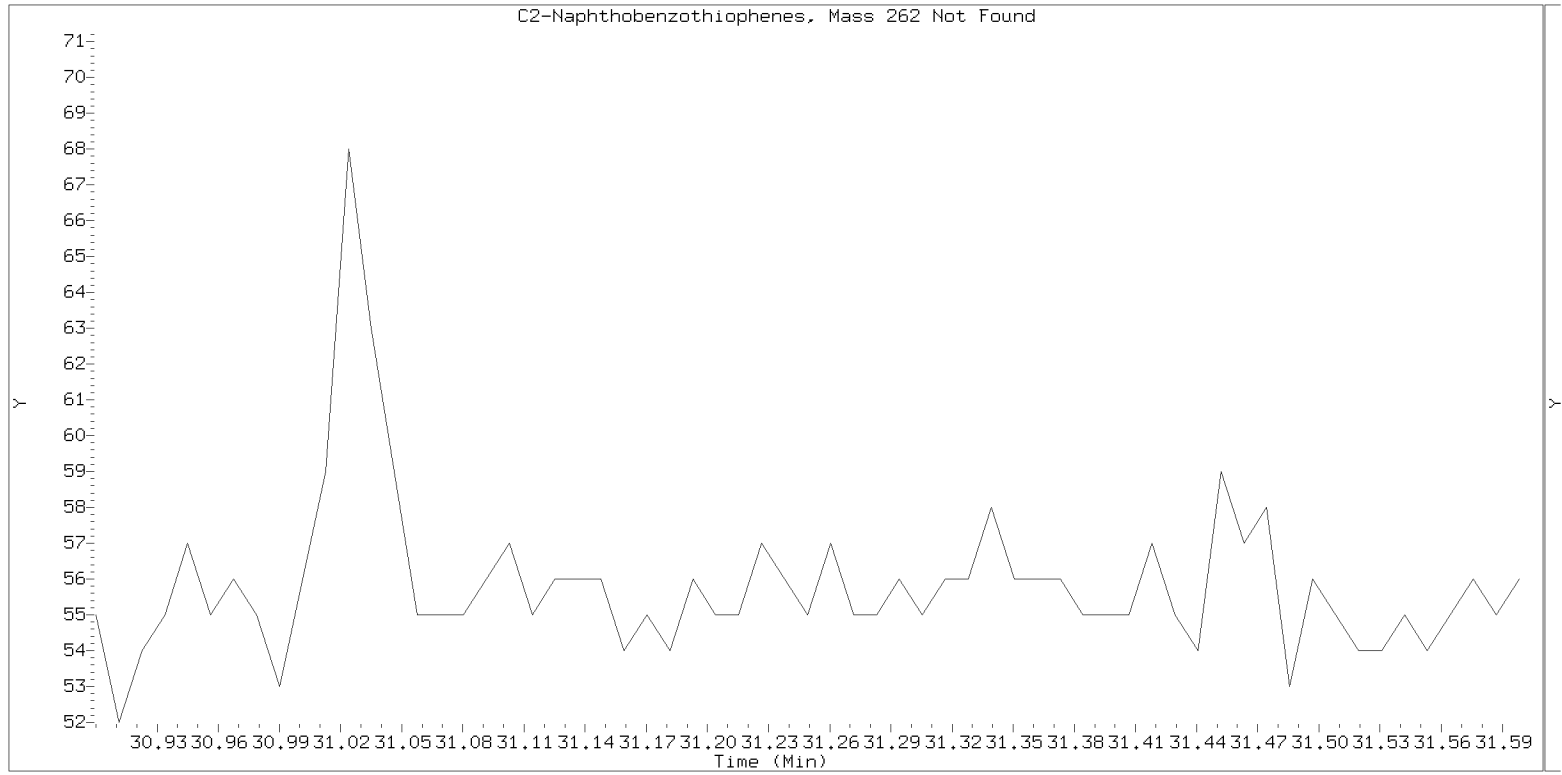
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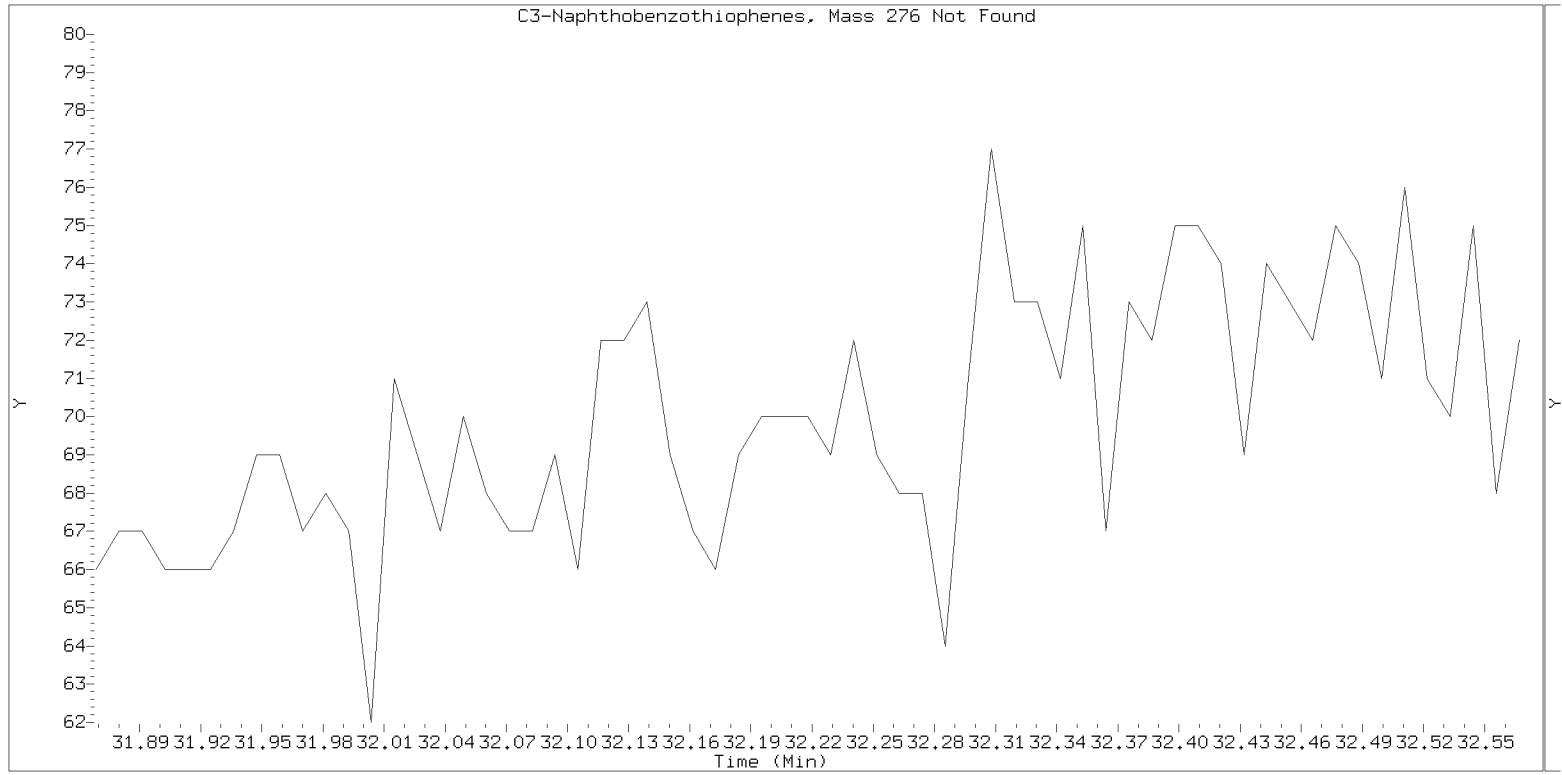
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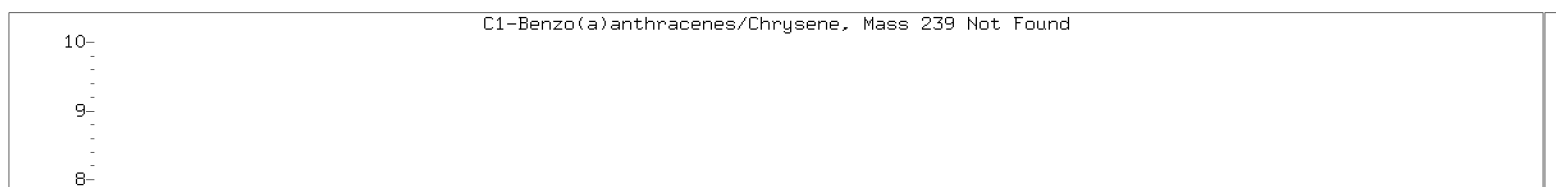
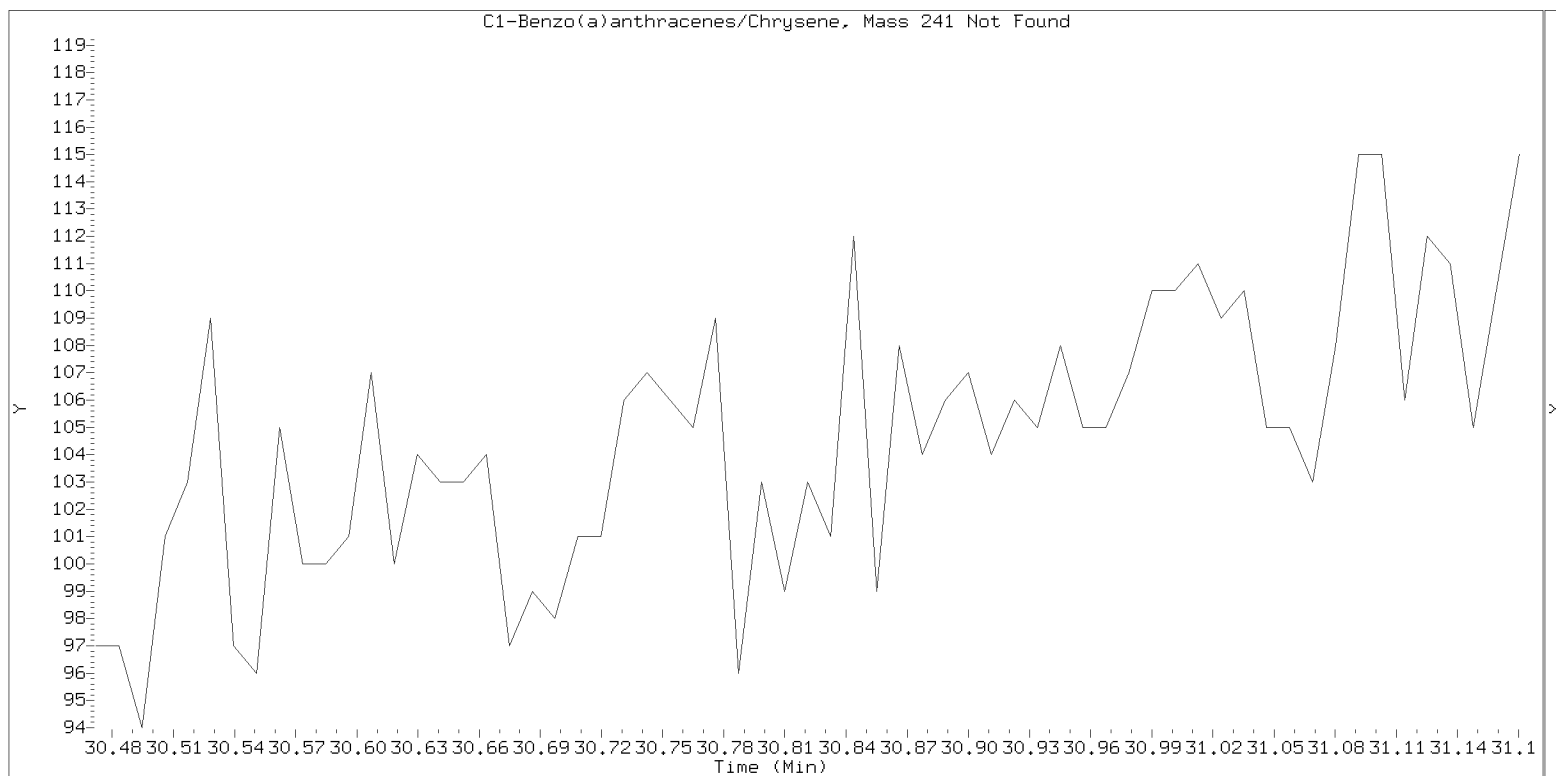
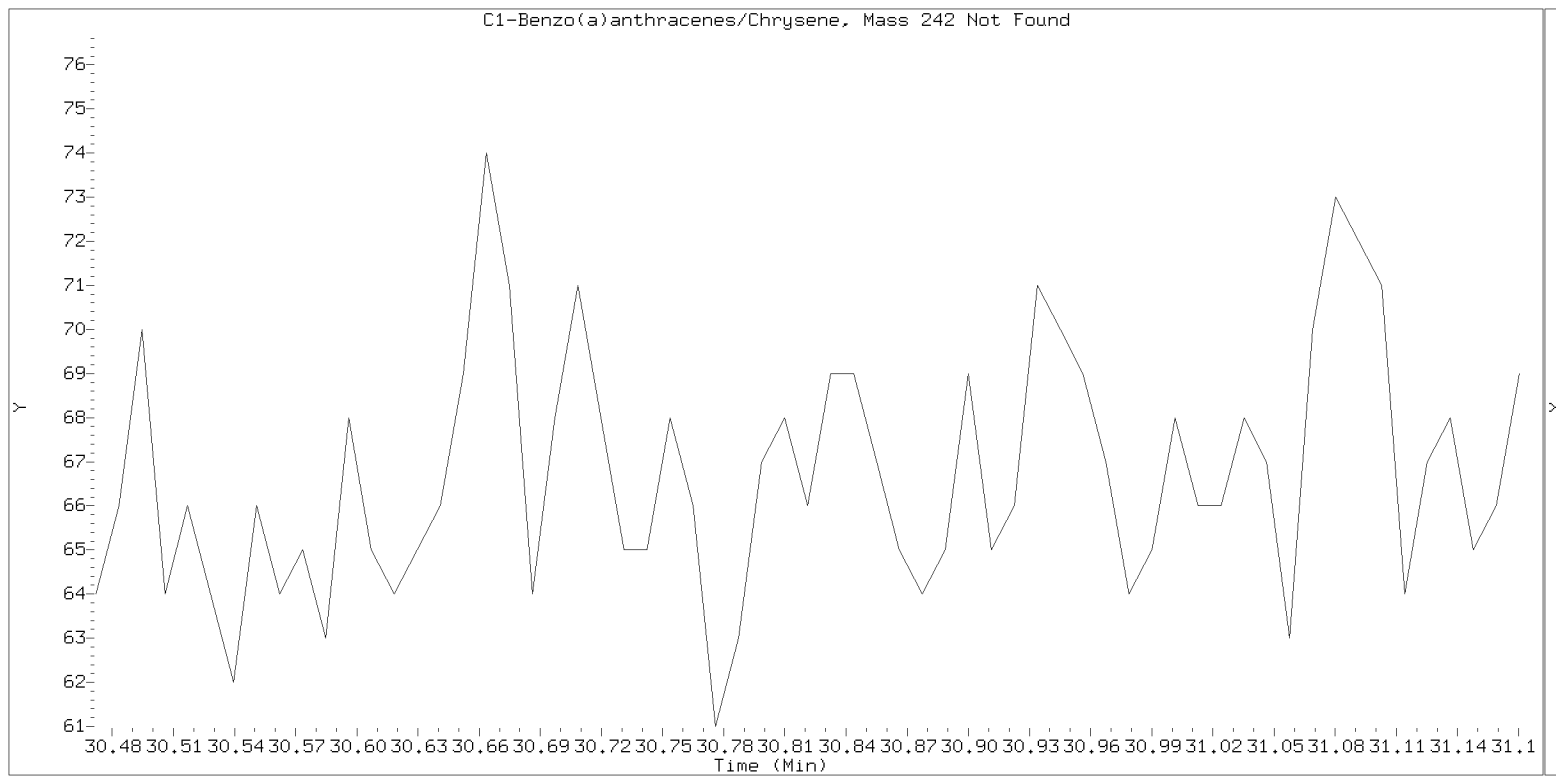
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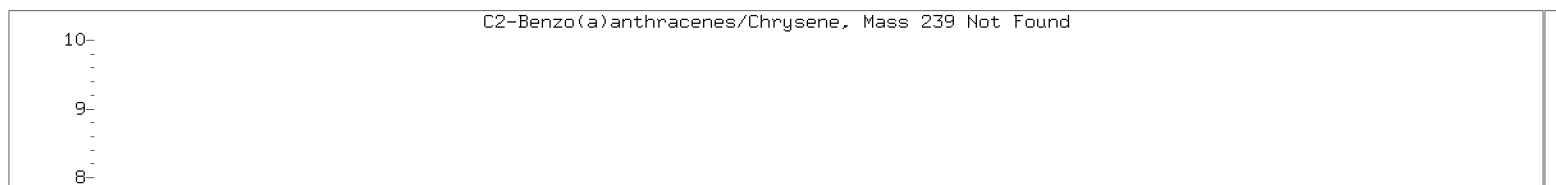
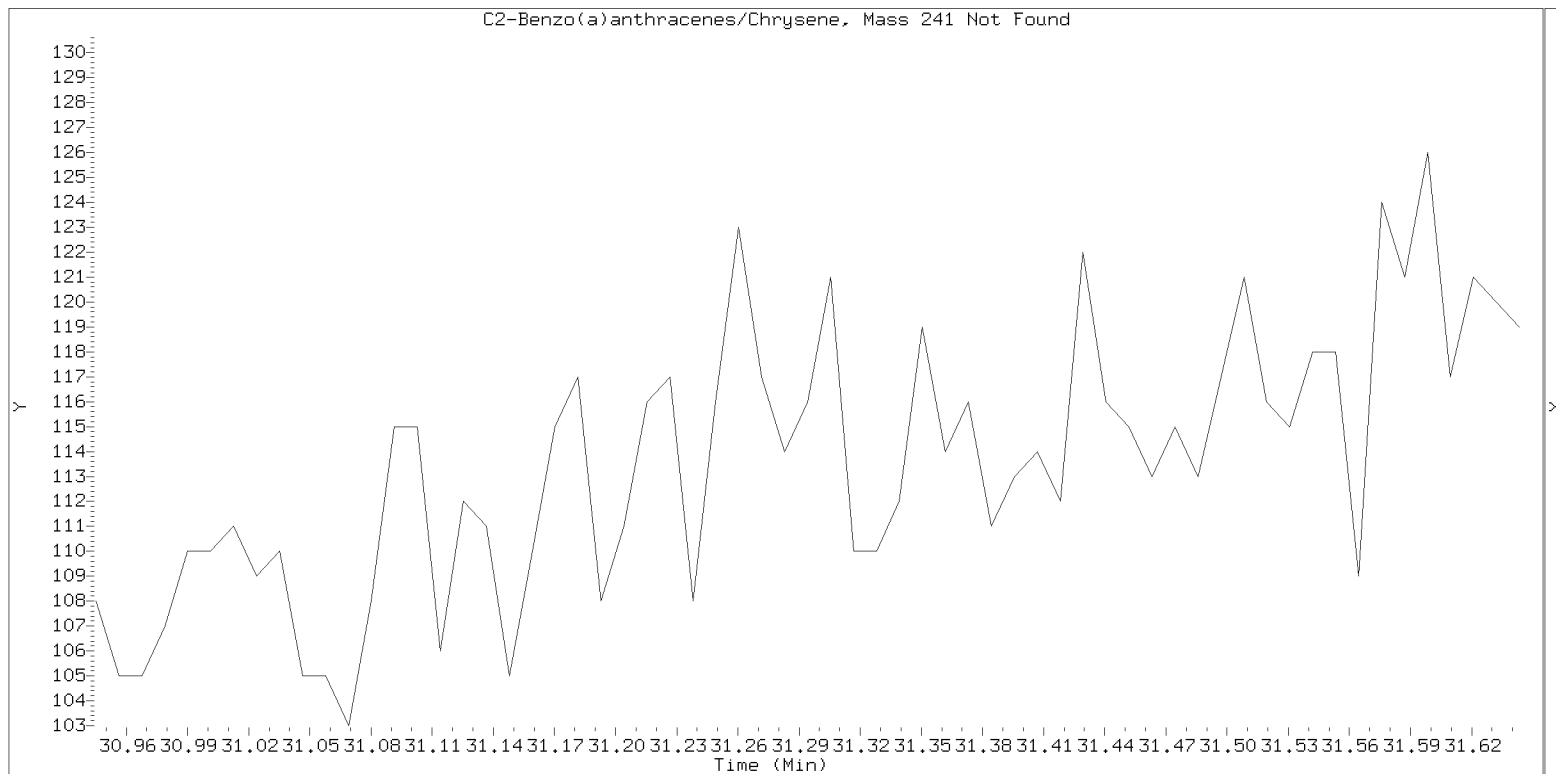
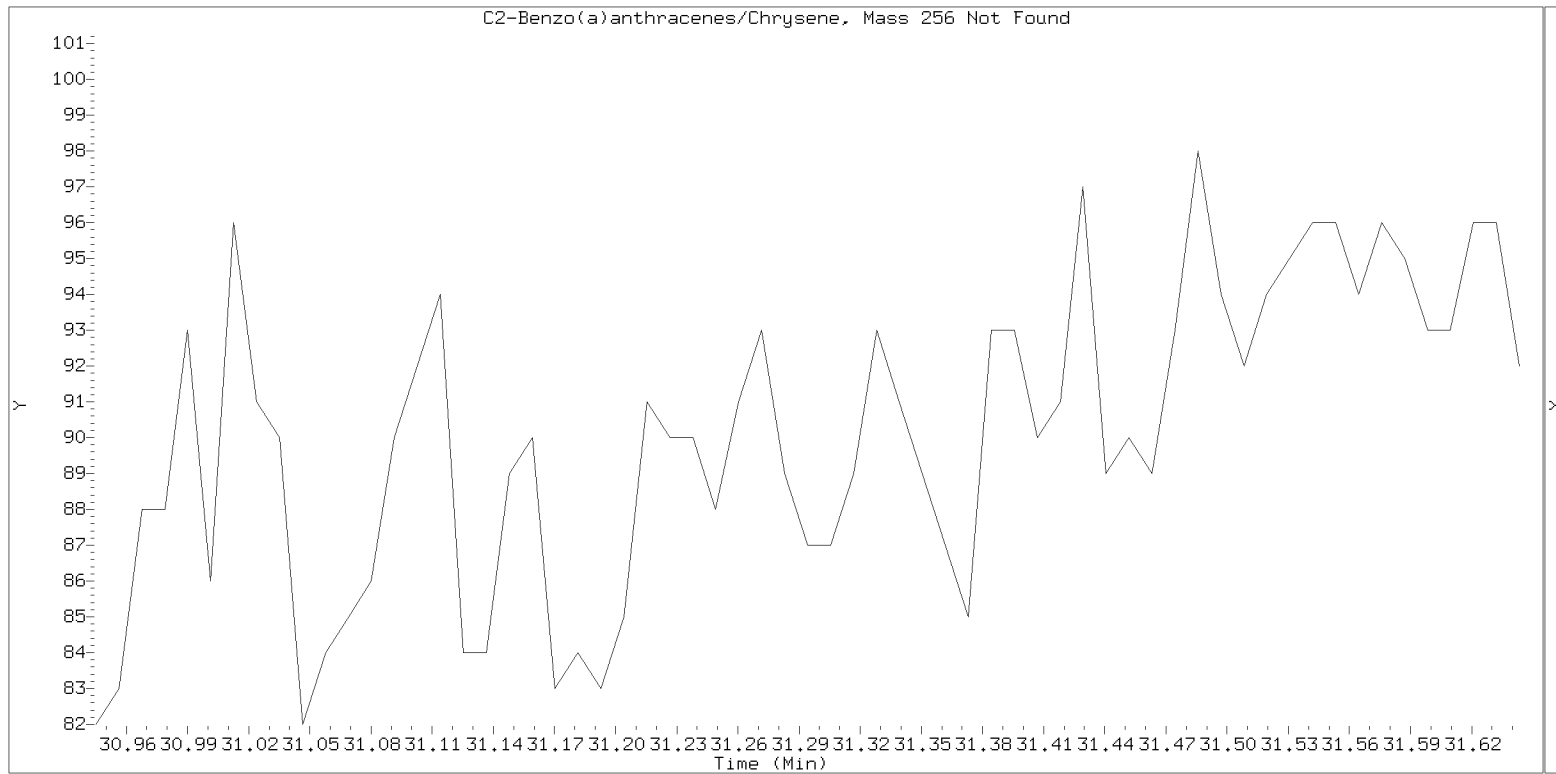
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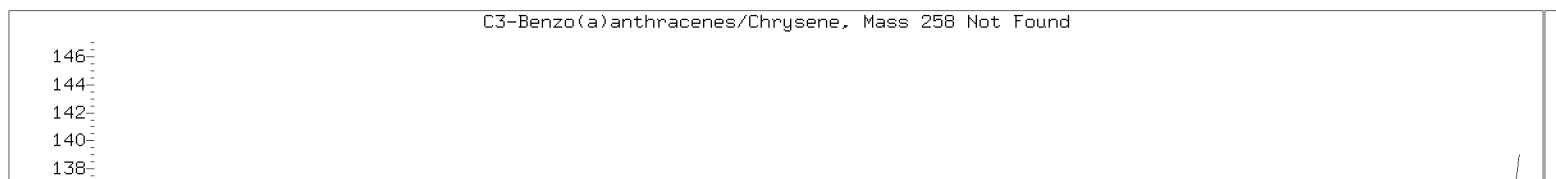
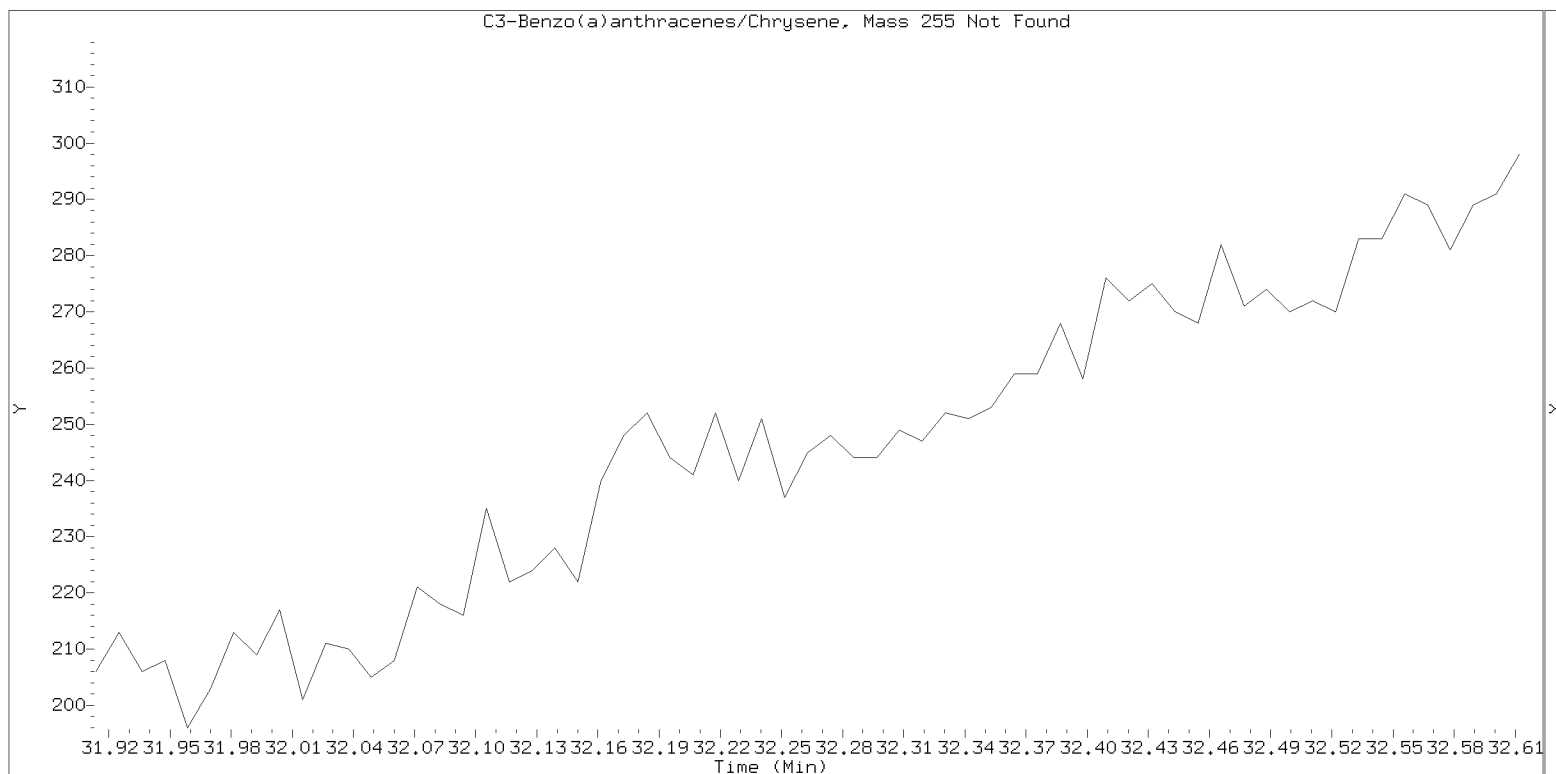
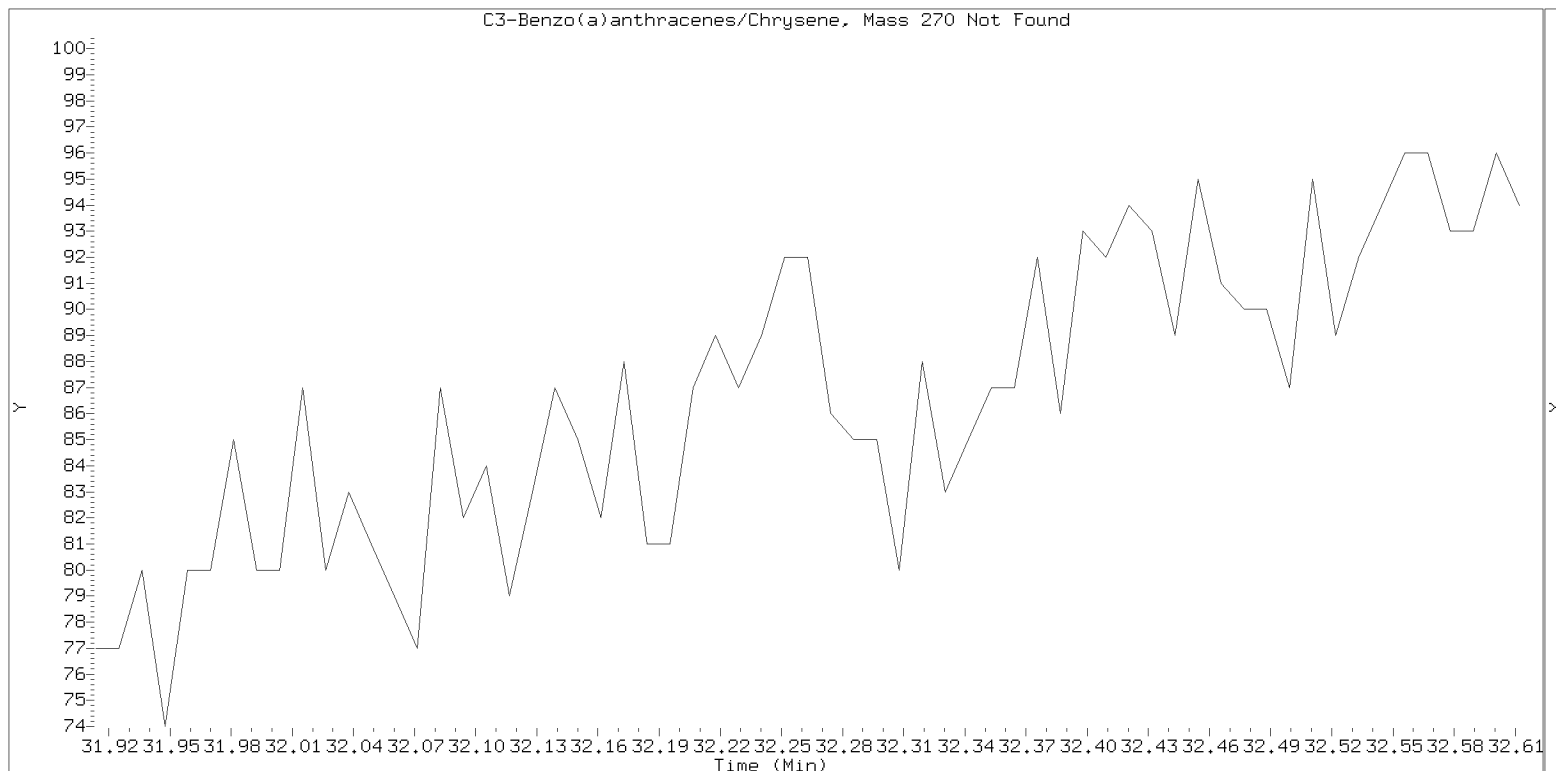
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

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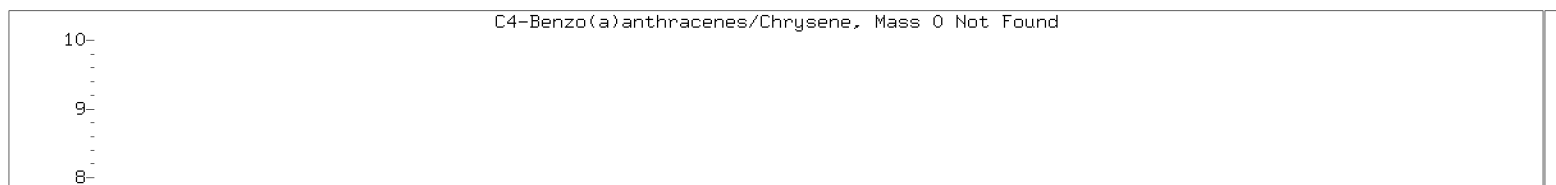
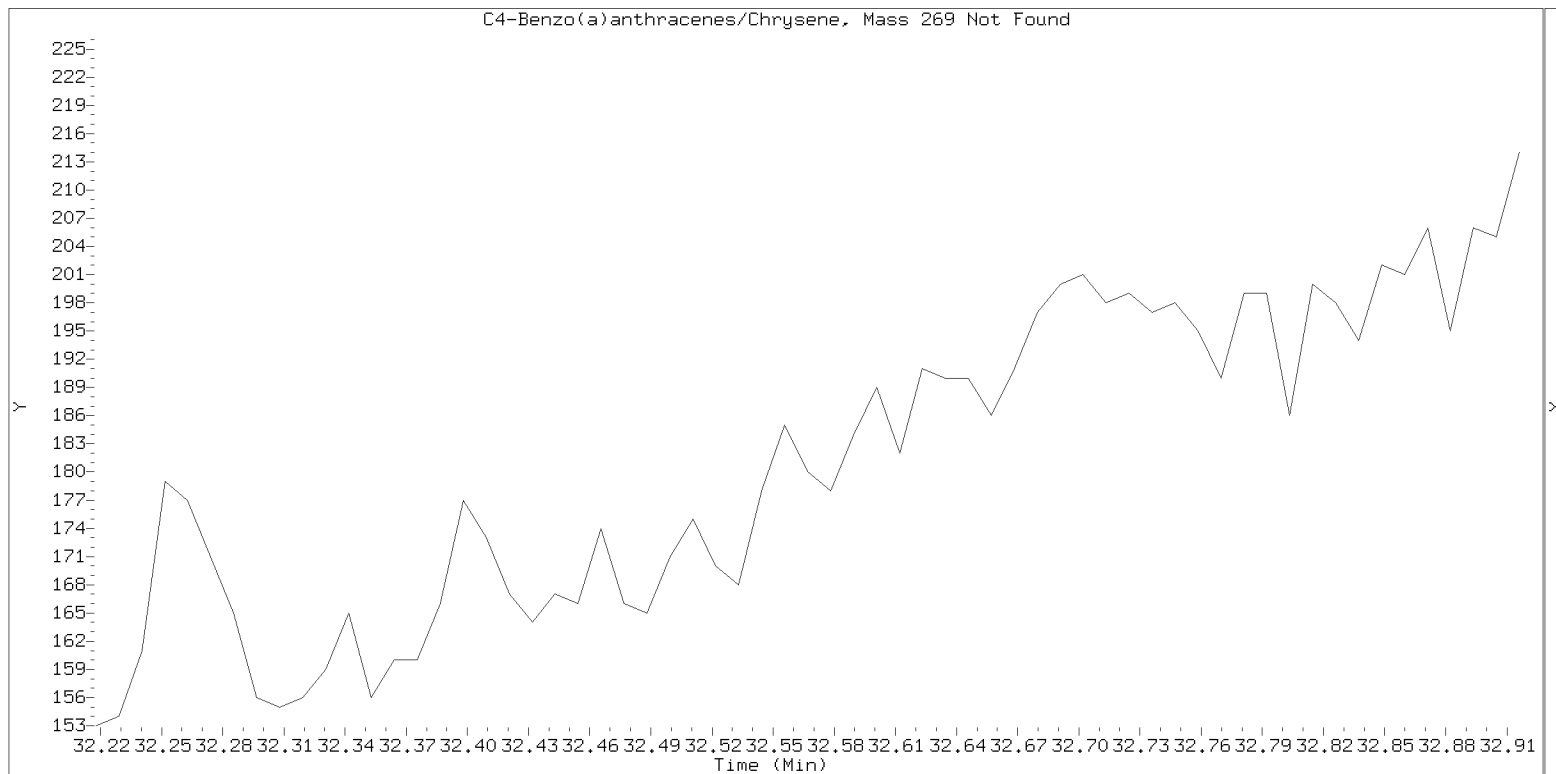
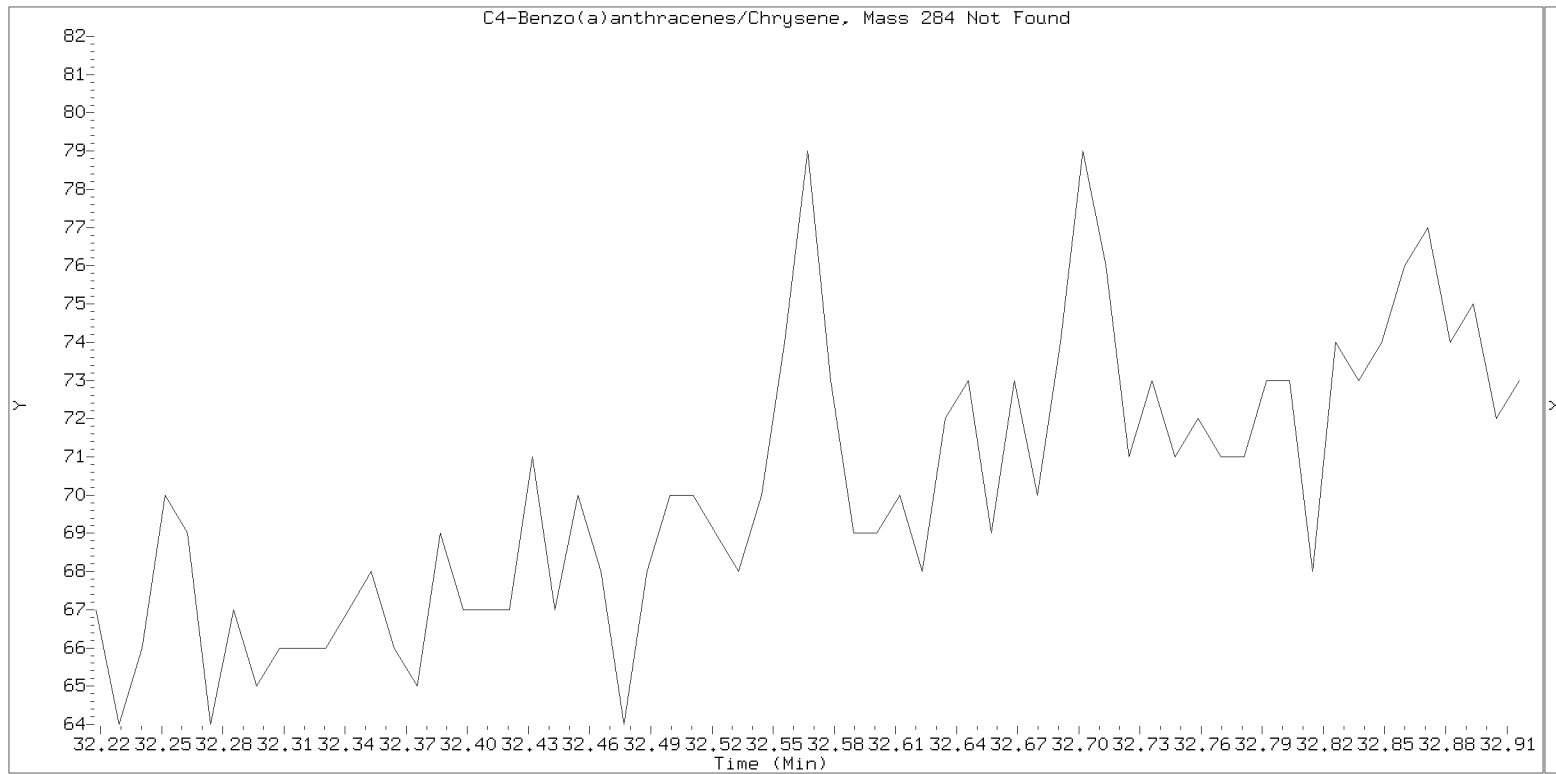
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Lab ID: 20J0385-02

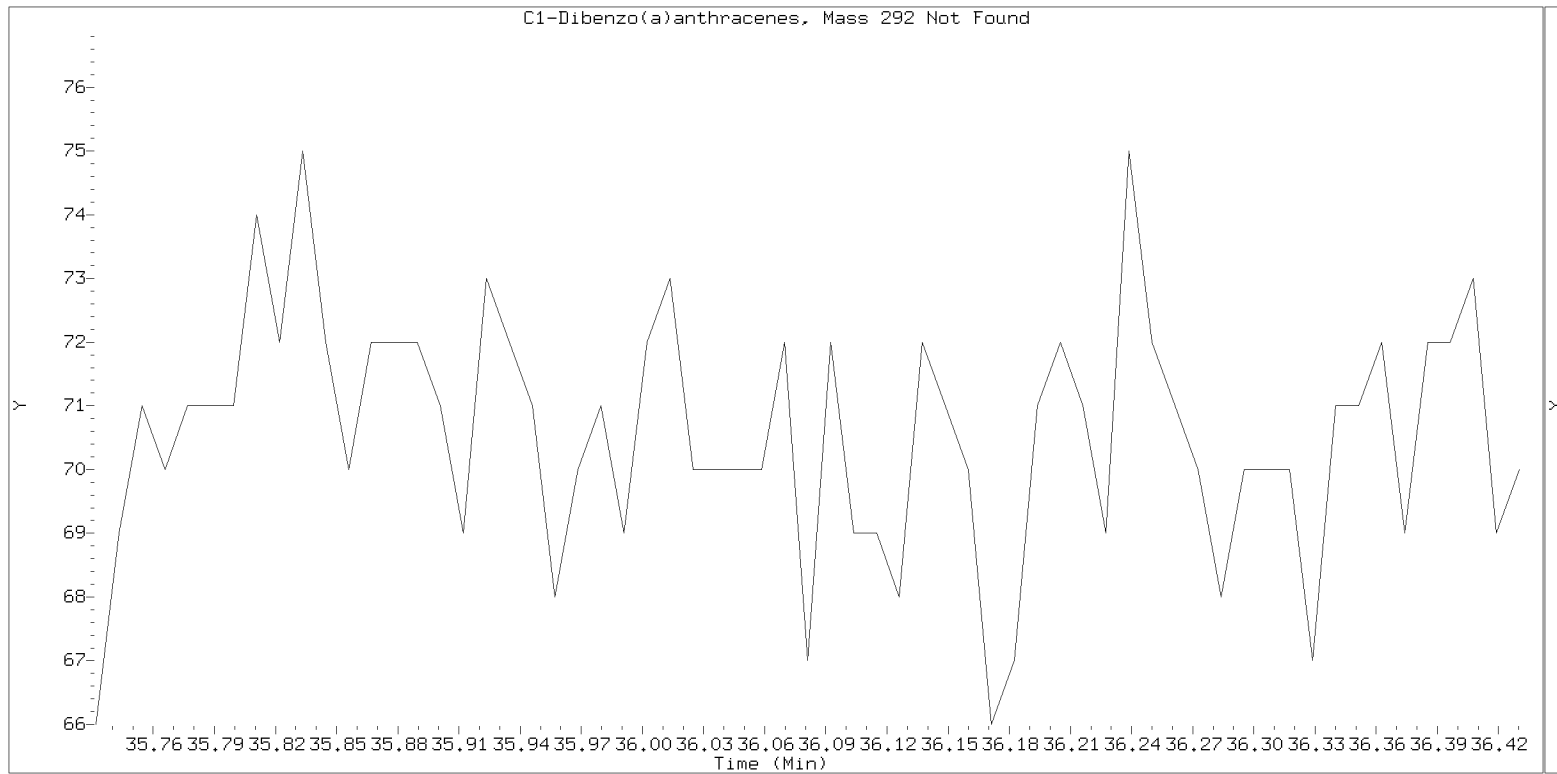
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

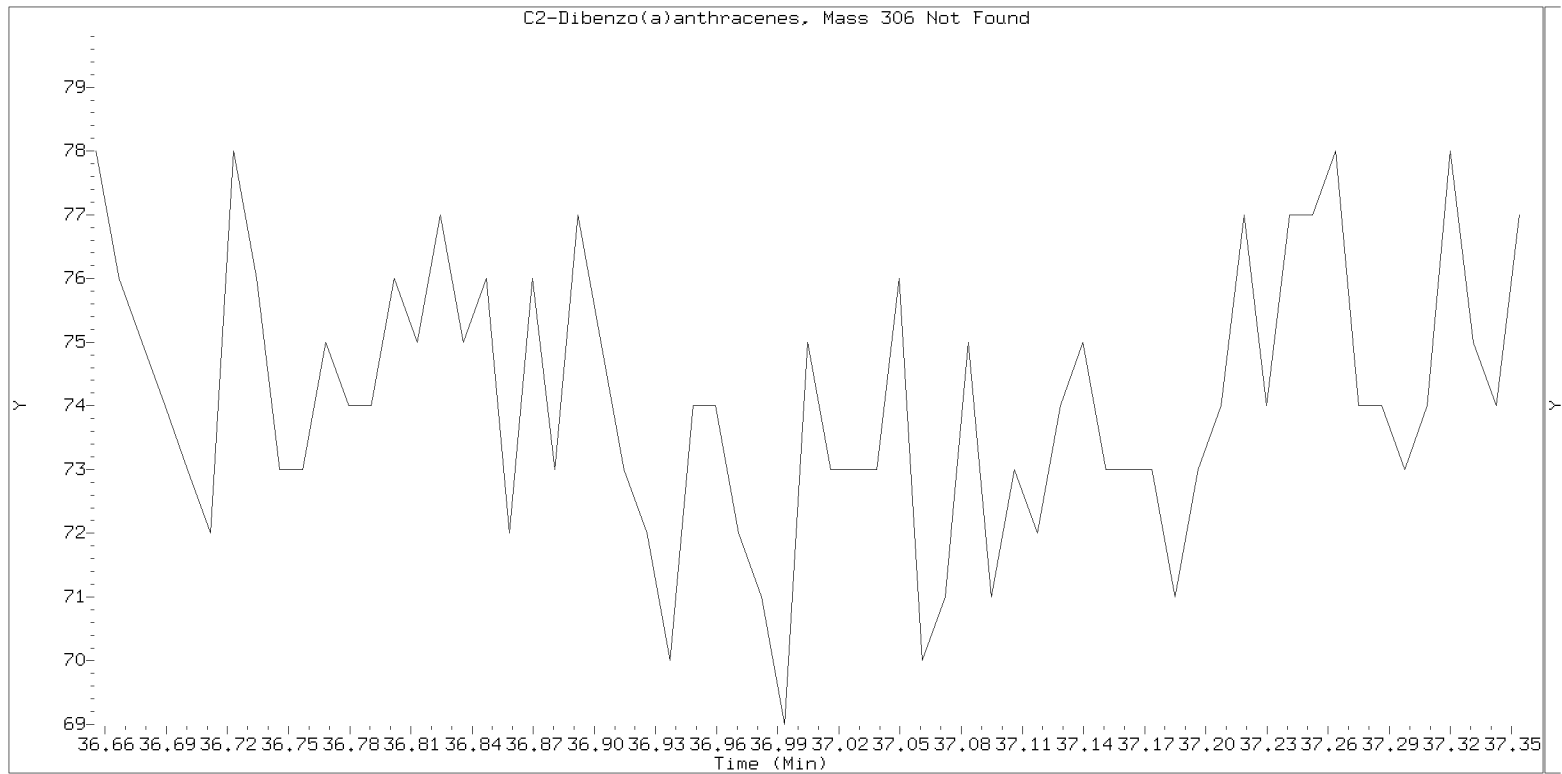
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

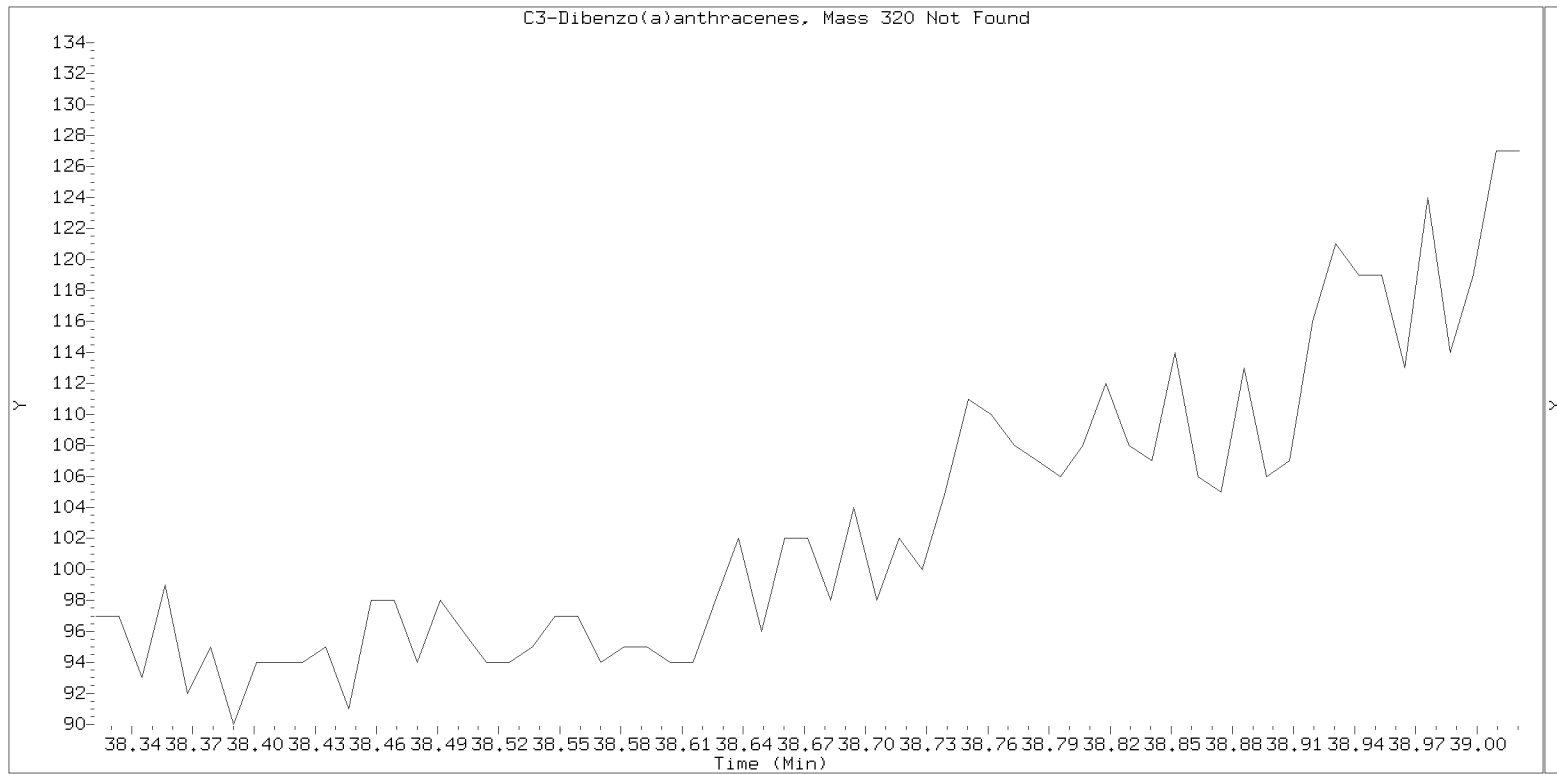
nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111017S.D

Lab ID: 20J0385-02

nt14.i, SIM.b\ALKYLRANGE.m, 11-NOV-2020 00:28





Form I
ORGANIC ANALYSIS DATA SHEET
EPA 8270E-SIM
Butyl Tins

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-02 E SDG: 20J0385
Sampled: 10/26/20 11:30 Prepared: 11/02/20 14:15 File ID: NT820111206.D
% Solids: Preparation: EPA 3510C SepF Analyzed: 11/12/20 11:51
Batch: BIJ0840 Sequence: SIK0176 Initial/Final: 100 mL / 0.5 mL
Instrument: NT8 Column: RXI-17Sil ms Calibration: DG00090
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
36643-28-4	Tributyltin Ion	1	0.193	U	0.043	0.193

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
Tripentyltin	2.2589	1.57	69.3	30 - 160	
Tripropyltin	2.1873	1.31	59.9	30 - 160	

Data File: \\target\share\chem3\nt8.1\20201112.B\NT820111206.D

Date: 12-NOV-2020 11:51

Client ID:

Sample Info: 20J0385-02

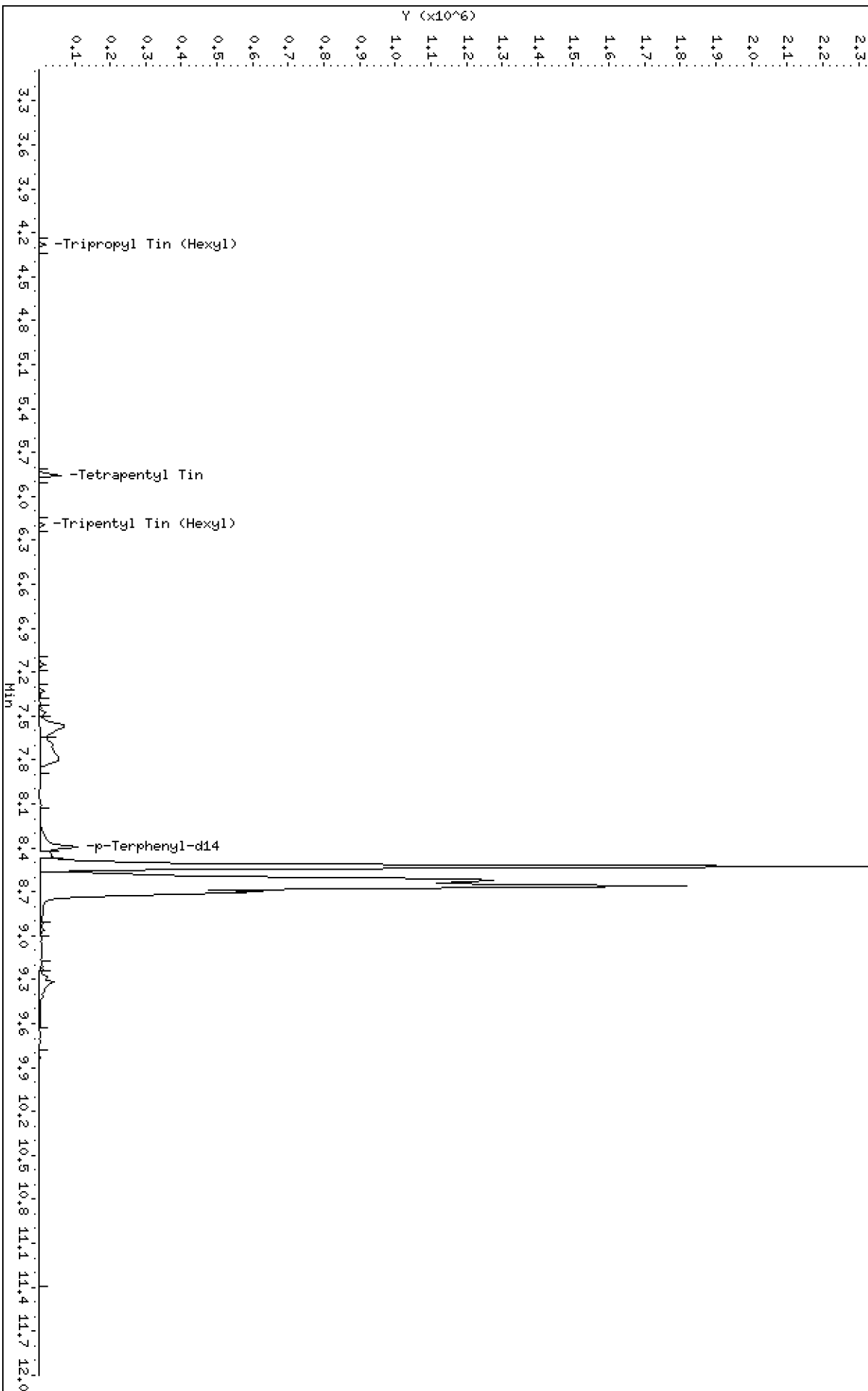
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20201112.B\NT820111206.D



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20201112.b\NT820111206.D
 Lab Smp Id: 20J0385-02
 Inj Date : 12-NOV-2020 11:51
 Operator : JZ Inst ID: nt8.i
 Smp Info : 20J0385-02
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Meth Date : 12-Nov-2020 12:00 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.284	4.263	(0.732)	9641	0.35182	0.3518
2 Tetrabutyl Tin	289		Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319		Compound Not Detected.					
* 4 Tetrapentyl Tin	333		5.856	5.856	(1.000)	61040	2.00000	
5 Dibutyl Tin (Hexyl)	347		Compound Not Detected.					
\$ 6 Tripentyl Tin (Hexyl)	347		6.194	6.194	(0.738)	5888	0.39339	0.3934
7 Butyl Tin (Hexyl)	347		Compound Not Detected.					
* 8 p-Terphenyl-d14	244		8.396	8.396	(1.000)	43109	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 12-NOV-2020
 Lab File ID: NT820111206.D Calibration Time: 10:22
 Lab Smp Id: 20J0385-02
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	61040	11.45
8 p-Terphenyl-d14	45248	22624	90496	43109	-4.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	5.86	5.36	6.36	5.86	0.00
8 p-Terphenyl-d14	8.40	7.90	8.90	8.40	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 - NT820111206.D

Lab ID: 20J0385-02

nt8.i, 20201112.b\TBT200730.m, 12-NOV-2020 11:51

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: NT820111202.D

On Column LOD for nt8.i, 20201112.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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



PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0840

Batch Matrix: Water

Preparation: EPA 3510C SepF

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SC-FB-2010261145	20J0385-01	NT820111205.D	11/02/20 14:15	
SC-RB-2010261130	20J0385-02	NT820111206.D	11/02/20 14:15	
Blank	BIJ0840-BLK1	NT820111203.D	11/02/20 14:15	
LCS	BIJ0840-BS1	NT820111204.D	11/02/20 14:15	



Batch: BIJ0840

Prepared using: EPA 3510C SepF
8270E-SIM Butyl Tins in Water (Version:)

Matrix: Water

Date Prepared: 11/2/20

Balance ID: N/A

Set Up By: RCSM 10/29/2020

The following standards may be missing from this batch!

Designator	Description
QLS 3	QLS Spike

Analysis: 8270E-SIM Butyl Tins

Lab Number & Container	Initial (mL) Actual	Actual	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
20J0385-01 E	100.00	<u>100.00</u>	0.5 _____	0.5 _____	
20J0385-02 E	100.00	<u>↓</u>	0.5 _____	0.5 _____	

Batch QC

Lab Number	Initial (mL) Actual	Actual	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BIJ0840-BLK I	100.00	<u>100.00</u>	0.5 _____	0.5 _____	
BIJ0840-BS I	100.00	<u>↓</u>	0.5 _____	0.5 _____	

SH 11/2/20

Client ID verified By _____ Date _____

CS 11/1/20

Preparation Reviewed By _____ Date _____

11/02/20

Extraction Date and Time _____

14:15



Batch: BIJ0840

Prepared using: EPA 3510C SepF
8270E-SIM Butyl Tins in Water (Version:)

Prep Steps

Reagents Used

Surrogates & Spike Standards Used

Station/Reagent	Standard ID	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
KD 80°C Hexane Exchange (2 X 20 mL) 100°C ① ② ③ ④ ⑤ ⑥ TWC 11/21/2020 Analyst/Date		Surrogate	1. 1008488 Exp: 12/10/2020	100µL	SH	BT
Separatory Funnel Analyst: CH Date: 11/21/20		2.5µg/mL				
0.02% Tropolone in Methylene Chloride	I009911	Spike	8. H012047 Exp: 12/12/2020	100µL	SH	BT
Anhydrous Sodium Sulfate	I008491	2.5µg/mL				
Methylene Chloride	I010090	(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.				
1:1 HCL SH 11/21/20 I007474		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).				
KD Analyst: TWC Date: 11/21/2020						
0.02% Tropolone in Methylene Chloride	I009911					
Hexane	I008804					
Methylene Chloride	I010090					
Derivitize Analyst: CTO Date: 11/21/20						
Hexane	I005829					
HexylMagnesiumBromide	H011730					
(REQ) Hydrolysis (4mL) Vortex 1 2 3 CTO 11/11/20 Analyst/Date						
Hydrolysis/Silica/Final Vialing Analyst: CTO Date: 11/11/20						
Concentrated HCL	H002039					
Anhydrous Sodium Sulfate	I010324					
Silica Gel (SPE) Dart EPH	I005350					
Hexane	I009769					
(REQ) Silica Gel (SPE) (1mL) CTO 11/11/20 Analyst/Date						
TurboVap Post Silica Gel 1 2 3 4 5 CTO 11/11/20 Analyst/Date						
Vialing CTO 11/11/20 Analyst/Date						



Batch: BIJ0840

Prepared using: EPA 3510C SepF
8270E-SIM Butyl Tins in Water (Version:)

Prep Instructions	Cleaning Instructions
<p>SPECIAL INSTRUCTIONS: NOTE: TBT Extractions must be completed within 48 hours!</p> <ol style="list-style-type: none">1. Rinse all glassware with 0.02% Tropolone.2. Pre-wash blanks with 30mL DCM (2min shake) (Discard DCM)3. Add Surr/Spk.4. Acidify with 1:1 HCL.5. Check pH.6. Let sit 10 minutes-Check pH again.7. Extract 1 X with 30mL 0.02% Tropolone (4 min shake-SHAKE VIGOROUSLY). Plus 2 X 30mL DCM.8. KD rinsed with 0.02% Tropolone (NO Drying Column) at 80°.9. Exchange (2 X with 20mL) to Hexane at 100°.10. TurboVap to 3mL-Transfer with Hexane to 40mL VOA vial.11. Derivitize=1 pipet HexMgBr (Mix by hand) then Vortex. Let sit 45min (vortex every 10 min). Then let sit overnite.12. Hydrolysis: Add (1) pipet conc. HCL. Vortex. Draw off/discard HCL. Add 5mL DI H2O. Vortex. Draw off/discard H2O. Add 5mL DI H2O a second time. Vortex. Draw off/discard H2O.13. Add sodium sulfate-Let sit 15min.14. Turbovap to 1mL.15. SPE Clean, EPH darts.16. TurboVap.17. Vial in Hexane.18. NOTE: Derivitizations must be done in the hood to protect from potential chemical reactions, odors and fumes! <p>Archive <input checked="" type="checkbox"/> Y <input type="checkbox"/> N</p>	<p>Vessel Cleaning Procedure:</p> <ol style="list-style-type: none">1. Rinse all glassware with 0.02% Tropolone.



Extraction Parameter: TBT Extraction Batch B120810

Total Solids Batch: N/A Work Order(s): 2020385

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input 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 checked="" type="checkbox"/> No Anomalies <u>335-01,02</u>	<u>BT 11/02/20</u>
<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 type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



PREPARATION BATCH SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0841

Batch Matrix: Water

Preparation: EPA 3520C (Liq Liq)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SC-FB-2010261145	20J0385-01	NT1420111016S.D	10/29/20 10:56	
SC-FB-2010261145	20J0385-01	NT1420111016.D	10/29/20 10:56	
SC-RB-2010261130	20J0385-02	NT1420111017S.D	10/29/20 10:56	
SC-RB-2010261130	20J0385-02	NT1420111017.D	10/29/20 10:56	
Blank	BIJ0841-BLK1	NT1420111014.D	10/29/20 10:56	
Blank	BIJ0841-BLK2	NT1420111014S.D	10/29/20 10:56	
LCS	BIJ0841-BS1	NT1420111015.D	10/29/20 10:56	



Batch: BIJ0841

Prepared using: EPA 3520C (Liq Liq)

8270E-SIM Alkyl PAH (Parents) Dual Scan in Water
+ SIM Alkyl Dual (range) Dual Scan

Matrix: Water

Date Prepared: 10/28/20

Balance ID: _____

Set Up By: RCM 10/29/2020

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

Lab Number & Container	Initial (mL) Actual	Disassemble Liq/Liq (Mantle #)	Liq/Liq Start Time	Liq/Liq End Time	(Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
20J0385-01 F	(500.00) 500.00	10	2:00	9:30	(1:1) Y/N	0.5	0.5	
20J0385-02 F	(500.00)	11			(1:1) Y/N	0.5	0.5	
20J0386-01 A	(500.00)	12			(1:1) Y/N	0.5	0.5	

Batch QC

Lab Number	Initial (mL) Actual	Disassemble Liq/Liq (Mantle #)	Liq/Liq Start Time	Liq/Liq End Time	(Opt) Silica Gel C/U (1:1) Y/N	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BIJ0841-BLK1	(500.00) 500.00	07	2:00	9:30	(1:1) Y/N	0.5	0.5	
BIJ0841-BS1	(500.00)	09			(1:1) Y/N	0.5	0.5	

SH 10/29/20

JPC 11/09/20

10/29/20

19:43

Client ID verified By

Date

Preparation Reviewed By

Date

Extraction Date and Time



Batch: BIJ0841

Prepared using: EPA 3520C (Liq Liq)

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

Prep Steps	Reagents Used	Surrogates & Spike Standards Used															
Liquid/Liquid Analyst/Date: <i>SH 10/29/20</i>	Station/Reagent Standard ID Liquid/Liquid Setup Analyst: <i>SH</i> Date: <i>10/29/20</i>	<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>Surrogate</td> <td>T I000266 Exp: 01/09/2021</td> <td>100uL</td> <td><i>SH</i></td> <td><i>BT</i></td> </tr> <tr> <td>Spike</td> <td>15 I007419 Exp: 03/23/2021</td> <td>100uL</td> <td><i>SH</i></td> <td><i>BT</i></td> </tr> </tbody> </table>	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness	Surrogate	T I000266 Exp: 01/09/2021	100uL	<i>SH</i>	<i>BT</i>	Spike	15 I007419 Exp: 03/23/2021	100uL	<i>SH</i>	<i>BT</i>
Type	Vial ID / Standard ID	Vol uL	Analyst	Witness													
Surrogate	T I000266 Exp: 01/09/2021	100uL	<i>SH</i>	<i>BT</i>													
Spike	15 I007419 Exp: 03/23/2021	100uL	<i>SH</i>	<i>BT</i>													
KD 80 - 85°C Hexane Exchange (2 X 20 mL) 100°C ① 1 ② 3 ③ 5 6 <i>AS 110720</i> Analyst/Date	Methylene Chloride <i>I010090</i> Hexane <i>I005592</i> Liquid/Liquid Breakdown Analyst: <i>AS</i> Date: <i>10/30/2020</i> Anhydrous Sodium Sulfate <i>I008491</i> KD Analyst: <i>AS</i> Date: <i>110720</i>	<p>(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.</p> <p>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).</p>															
TurboVap Pre Silica Gel Clean 1 2 3 ④ 5 Analyst/Date	Methylene Chloride <i>I010351</i> Hexane <i>I009050</i> Vialing Analyst: <i>JK</i> Date: <i>11/09/20</i>																
TurboVap Post Silica Gel Clean 1 2 ③ 4 5 <i>JK 11/09/20</i> Analyst/Date	Methylene Chloride <i>I010361</i> Hexane <i>I019769</i> Silica Gel (SPE) Darts <i>T09985</i>																
Vialing <i>JK 11/09/20</i> Analyst/Date																	
			<table border="1"> <tbody> <tr> <td>SPIKE</td> <td>42 I008202 Exp: 9/1/2021 <i>SH 10/29/20</i> <i>3/13/21</i></td> <td>100uL</td> <td>Analyst <i>SH</i></td> <td>Witness</td> </tr> <tr> <td>15ug/mL</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	SPIKE	42 I008202 Exp: 9/1/2021 <i>SH 10/29/20</i> <i>3/13/21</i>	100uL	Analyst <i>SH</i>	Witness	15ug/mL								
SPIKE	42 I008202 Exp: 9/1/2021 <i>SH 10/29/20</i> <i>3/13/21</i>	100uL	Analyst <i>SH</i>	Witness													
15ug/mL																	



Extraction Parameter: SIMAKY Extraction Batch B12Q841

Total Solids Batch: N/A Work Order(s): 2QJQ385

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input 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 checked="" type="checkbox"/> No Anomalies	SH 10/29/20
<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 type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Batch: BIJ0841

Prepared using: EPA 3520C (Liq Liq)
8270E-SIM Alkyl PAH (Parents) Dual Scan in Water

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Use 500mL Liq/Liq Body2. Add 20-25mL Hexane.3. Add ~200mL DCM to Liq/Liq.4. Add surr/spike.5. Extract minimum 8 hrs.6. KD (no drying column) to 5mL at 80°.7. Exchange (2 X with 20mL) to Hexane at 100°.8. TurboVap.9. Silica Clean-up Opt-Any Color=REQ (All or none).10. TurboVap (if Silica Clean).11. Vial in DCM. <p>Archive: Y / N</p>	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Cleanup Batch: CIK0072

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
SC-FB-2010261145	20J0385-01	NT1420111016.D	11/09/2020	
SC-FB-2010261145	20J0385-01	NT1420111016S.D	11/09/2020	
SC-RB-2010261130	20J0385-02	NT1420111017.D	11/09/2020	
SC-RB-2010261130	20J0385-02	NT1420111017S.D	11/09/2020	
Blank	BIJ0841-BLK1	NT1420111014.D	11/09/2020	
Blank	BIJ0841-BLK2	NT1420111014S.D	11/09/2020	
LCS	BIJ0841-BS1	NT1420111015.D	11/09/2020	



CLEANUP BENCH SHEET

CIK0072

Matrix: Water

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Printed: 11/10/2020 12:35:34PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
20J0385-01	F	SC-FB-2010261145	F 01	0.5	0.5	DE-SIM Alkyl PAH (Parents) Dual S	11/9/2020	JGR	
20J0385-01	F	SC-FB-2010261145	F 01	0.5	0.5	DE-SIM Alkyl PAH (Range) Dual S	11/9/2020	JGR	
20J0385-02	F	SC-RB-2010261130	F 01	0.5	0.5	DE-SIM Alkyl PAH (Parents) Dual S	11/9/2020	JGR	
20J0385-02	F	SC-RB-2010261130	F 01	0.5	0.5	DE-SIM Alkyl PAH (Range) Dual S	11/9/2020	JGR	
20J0386-01	A	SC-RB-2010261000	A 01	0.5	0.5	DE-SIM Alkyl PAH (Parents) Dual S	11/9/2020	JGR	
20J0386-01	A	SC-RB-2010261000	A 01	0.5	0.5	DE-SIM Alkyl PAH (Range) Dual S	11/9/2020	JGR	
BIJ0841-BLK1	-	Blank	-	0.5	0.5	-	11/9/2020	JGR	
BIJ0841-BLK2	-	Blank	-	0.5	0.5	-	11/9/2020	JGR	
BIJ0841-BS1	-	LCS	-	0.5	0.5	-	11/9/2020	JGR	
BIJ0841-BS2	-	LCS	-	0.5	0.5	-	11/9/2020	JGR	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Cleanup Batch: CIK0081

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
SC-FB-2010261145	20J0385-01	NT820111205.D	11/11/2020	
SC-RB-2010261130	20J0385-02	NT820111206.D	11/11/2020	
Blank	BIJ0840-BLK1	NT820111203.D	11/11/2020	
LCS	BIJ0840-BS1	NT820111204.D	11/11/2020	



CLEANUP BENCH SHEET

CIK0081

Matrix: Water

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Printed: 11/11/2020 2:58:13PM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
20J0385-01	E	SC-FB-2010261145	E 01	0.5	0.5	8270E-SIM Butyl Tins	11/11/2020	CCT	
20J0385-02	E	SC-RB-2010261130	E 01	0.5	0.5	8270E-SIM Butyl Tins	11/11/2020	CCT	
BIJ0840-BLK1	-	Blank	-	0.5	0.5	-	11/11/2020	CCT	
BIJ0840-BS1	-	LCS	-	0.5	0.5	-	11/11/2020	CCT	



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BIJ0840-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>11/02/20 14:15</u>
Solids:		Preparation:	<u>EPA 3510C SepF</u>
Batch:	<u>BIJ0840</u>	Sequence:	<u>SIK0176</u>
Instrument:	<u>NT8</u>	Column:	<u>RXI-17Sil ms</u>
		Cleanups:	<u>Silica Gel</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
36643-28-4	Tributyltin Ion	1	0.193	U	0.043	0.193

SURROGATES	ADDED (ug/L)	CONC. (ug/L)	% REC	QC LIMITS	Q
Tripentyltin	2.2589	1.62	71.5	30 - 160	
Tripropyltin	2.1873	1.46	67.0	30 - 160	

Data File: \\target\share\chem3\nt8.1\20201112.6\N1820111203.D

Date : 12-NOV-2020 11:01

Client ID:

Sample Info: B100840-BLK1,

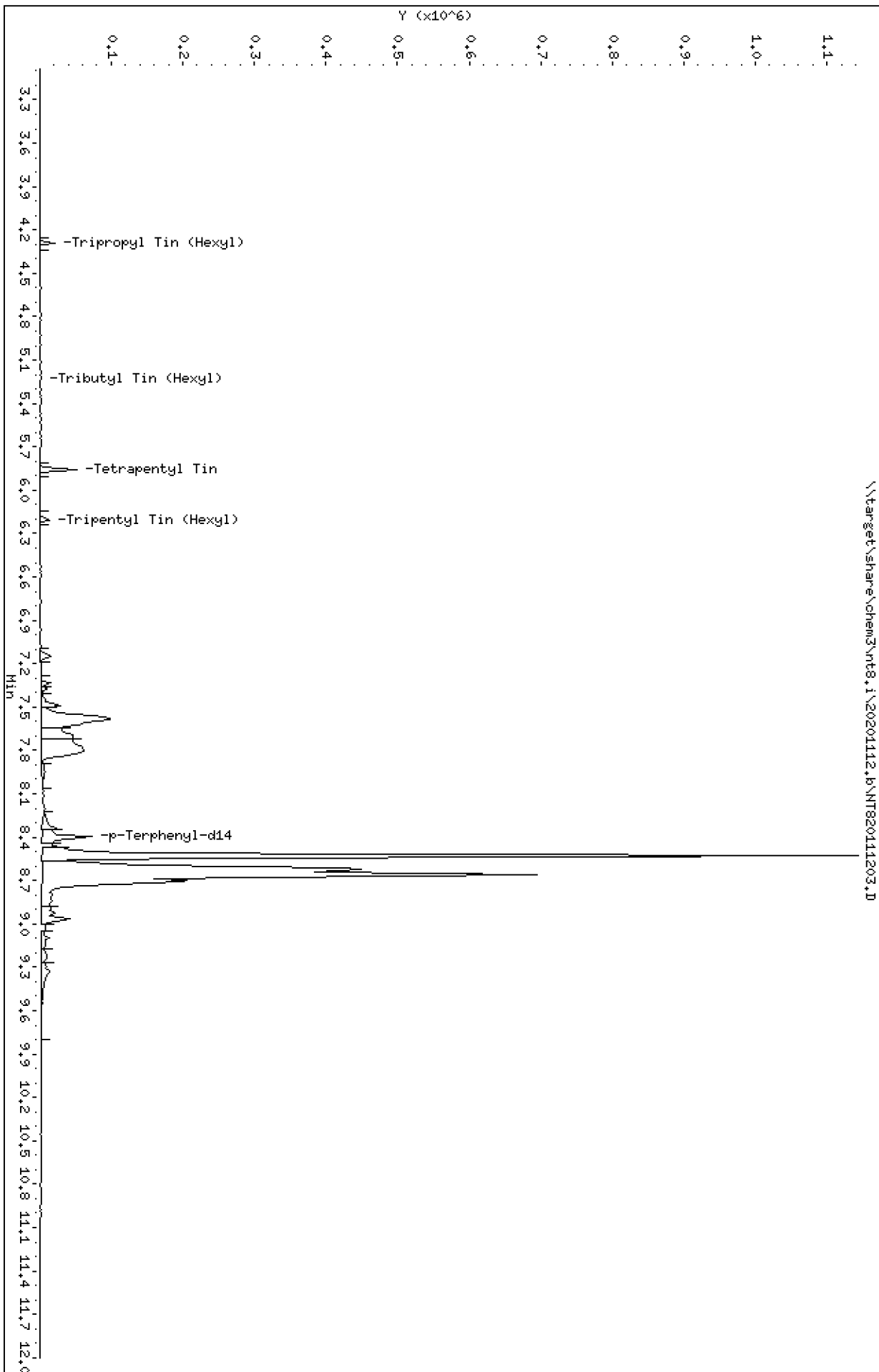
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20201112.6\N1820111203.D



Date : 12-NOV-2020 11:01

Client ID:

Instrument: nt8.i

Sample Info: BIJ0840-BLK1,

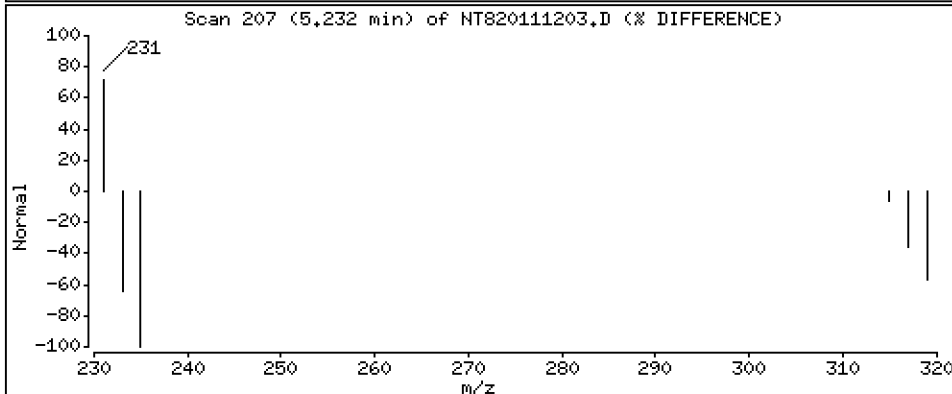
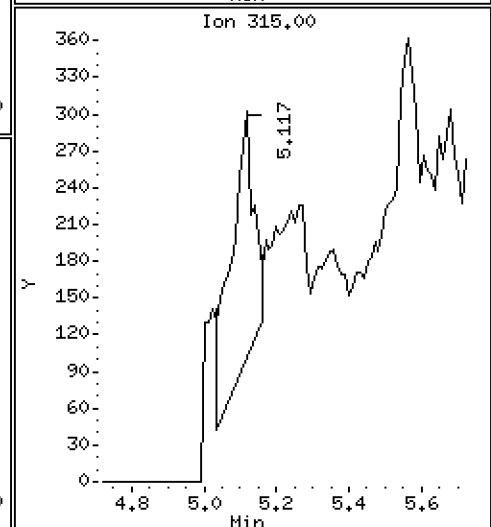
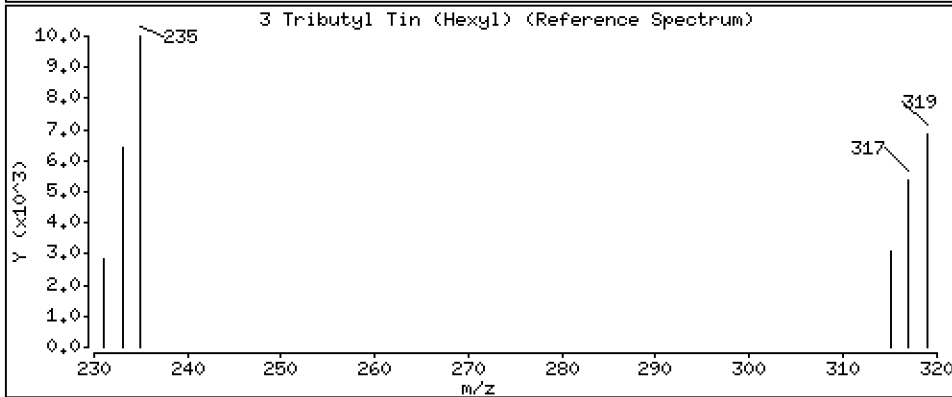
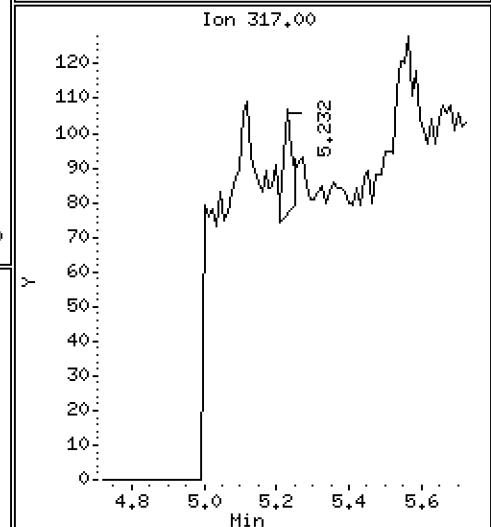
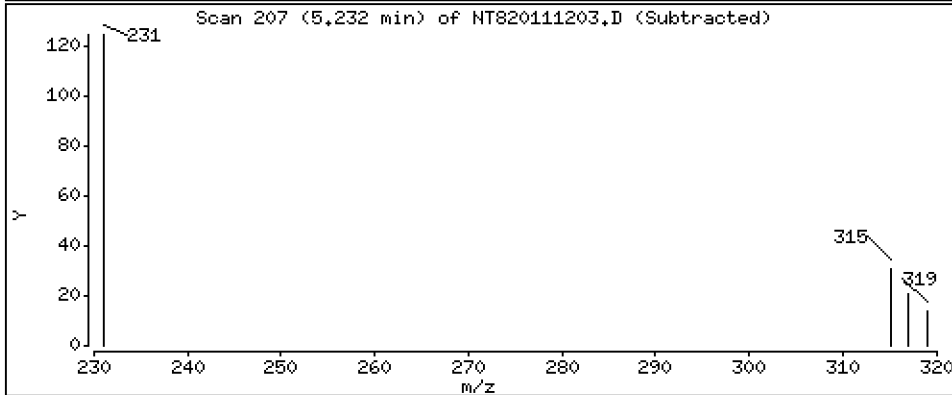
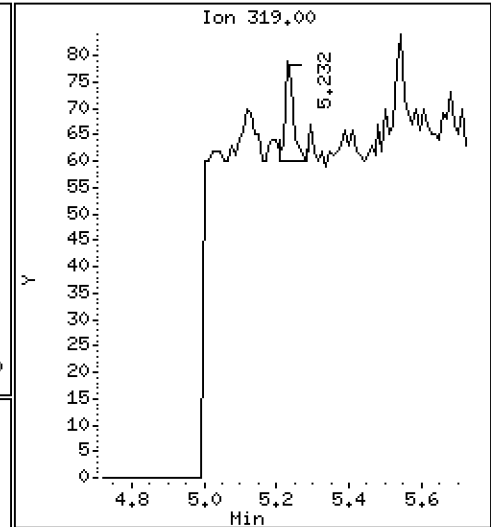
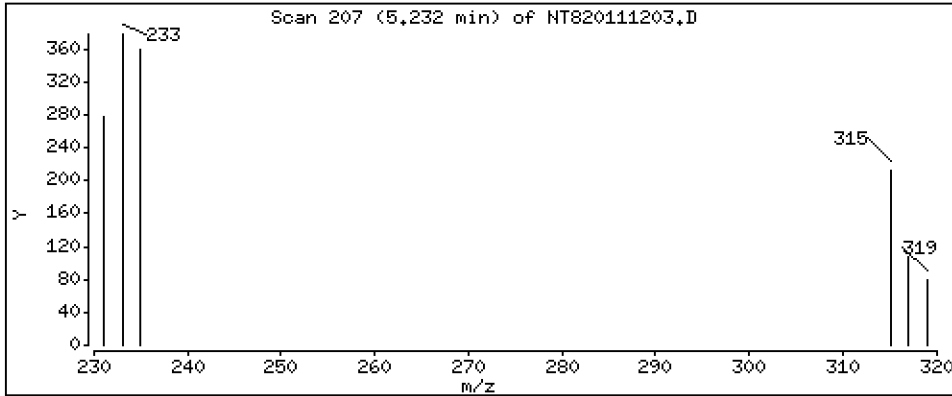
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,25

3 Tributyl Tin (Hexyl)

Concentration: 0,001627 ug/mL



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20201112.b\NT820111203.D
 Lab Smp Id: BIJ0840-BLK1
 Inj Date : 12-NOV-2020 11:01
 Operator : JZ Inst ID: nt8.i
 Smp Info : BIJ0840-BLK1,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Meth Date : 12-Nov-2020 12:00 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.294	4.263	(0.733)	9948	0.39359	0.3936
2 Tetrabutyl Tin	289		Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319		5.231	5.221	(0.893)	29	0.00163	0.001627
* 4 Tetrapentyl Tin	333		5.856	5.856	(1.000)	56299	2.00000	
5 Dibutyl Tin (Hexyl)	347		Compound Not Detected.					
\$ 6 Tripentyl Tin (Hexyl)	347		6.206	6.194	(0.739)	6079	0.40611	0.4061
7 Butyl Tin (Hexyl)	347		Compound Not Detected.					
* 8 p-Terphenyl-d14	244		8.396	8.396	(1.000)	43114	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 12-NOV-2020
 Lab File ID: NT820111203.D Calibration Time: 10:22
 Lab Smp Id: BIJ0840-BLK1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	56299	2.80
8 p-Terphenyl-d14	45248	22624	90496	43114	-4.72

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	5.86	5.36	6.36	5.86	-0.00
8 p-Terphenyl-d14	8.40	7.90	8.90	8.40	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 - NT820111203.D

Lab ID: BIJ0840-BLK1

nt8.i, 20201112.b\TBT200730.m, 12-NOV-2020 11:01

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.733	0.728	0.0053	Tripropyl Tin (Hexyl)

RRT check based on Ccal File: NT820111202.D

On Column LOD for nt8.i, 20201112.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BIJ0841-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>10/29/20 10:56</u>
Solids:		Preparation:	<u>EPA 3520C (Liq Liq)</u>
Batch:	<u>BIJ0841</u>	Sequence:	<u>SIK0139</u>
Instrument:	<u>NT14</u>	Column:	<u>ZB-5MS</u>
		Cleanups:	<u>Silica Gel</u>

SURROGATES	ADDED (ug/L)	CONC. (ug/L)	% REC	QC LIMITS	Q
Phenanthrene-d10	3.0000	2.65	88.2	30 - 160	
Chrysene-d12	3.0000	2.74	91.4	30 - 160	
Perylene-d12	3.0000	2.21	73.8	30 - 160	

Data File: \\target\share\chem3\nt14,1\20201110,16\NT1420111014.D

Date : 10-NOV-2020 22:05

Client ID:

Sample Info: B100841-BLK1

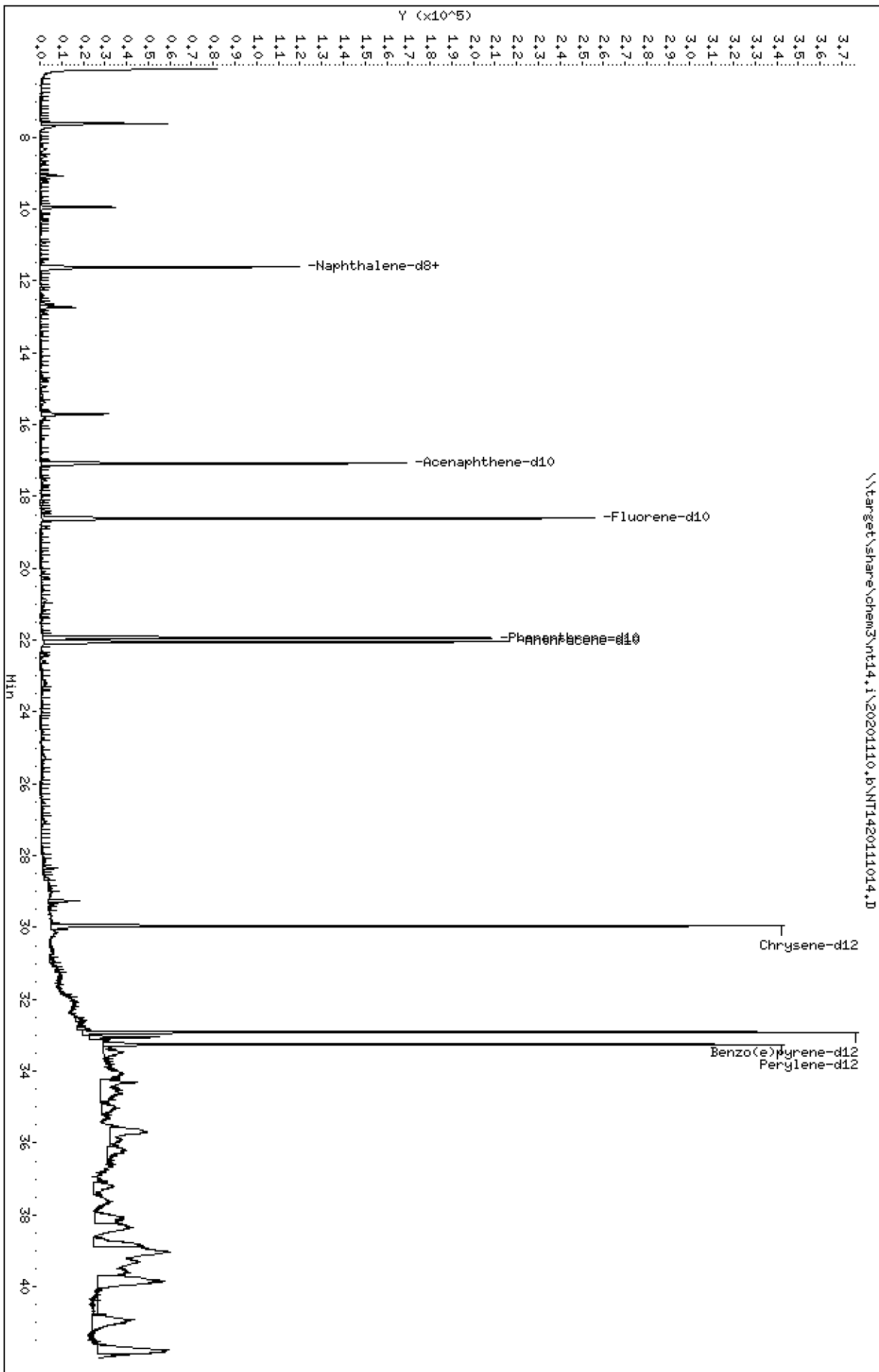
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201110,16\NT1420111014.D



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

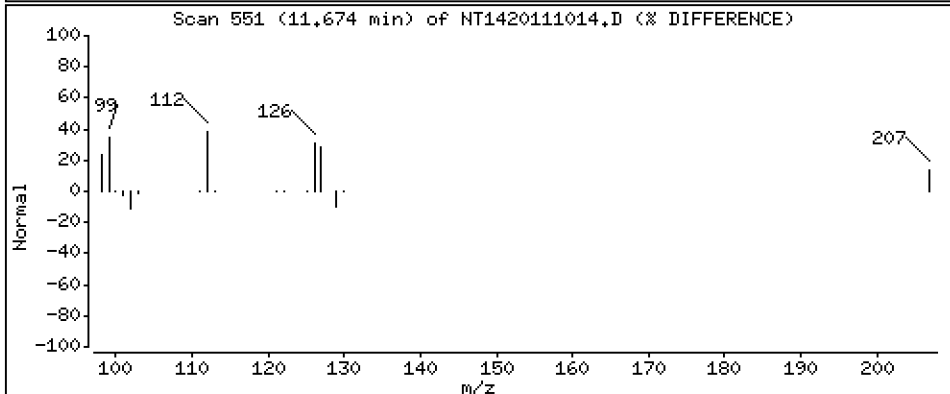
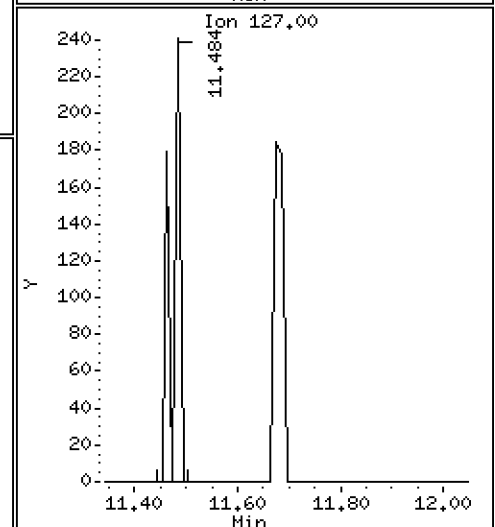
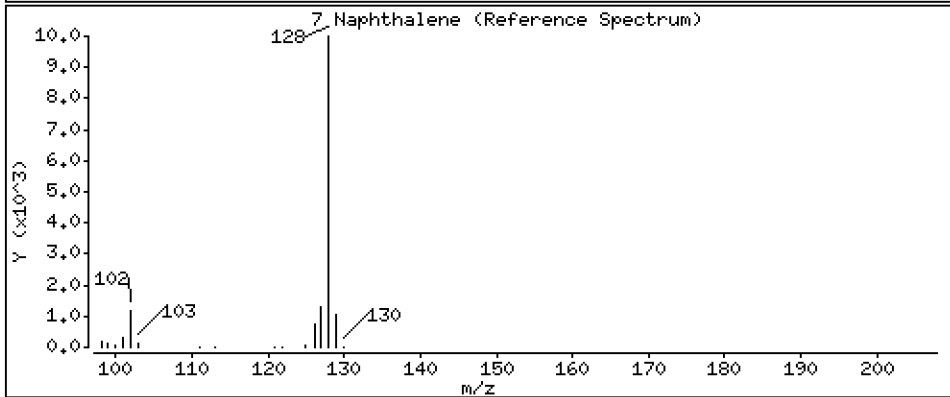
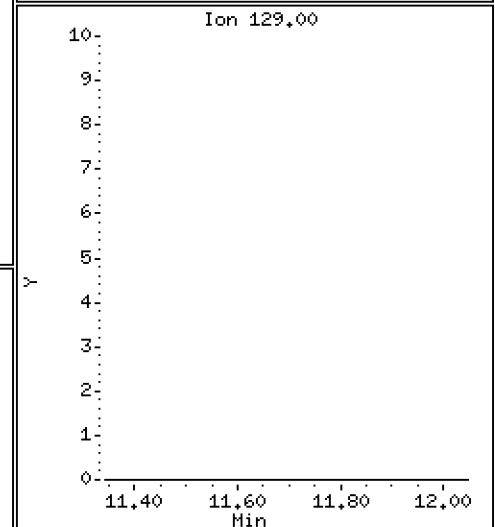
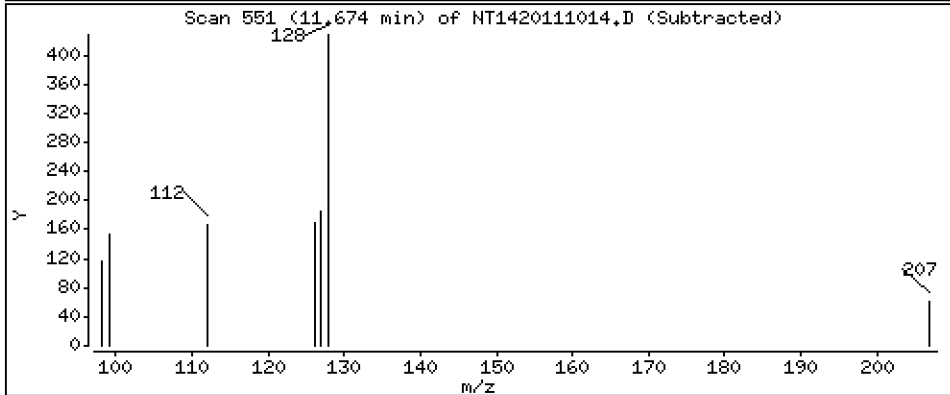
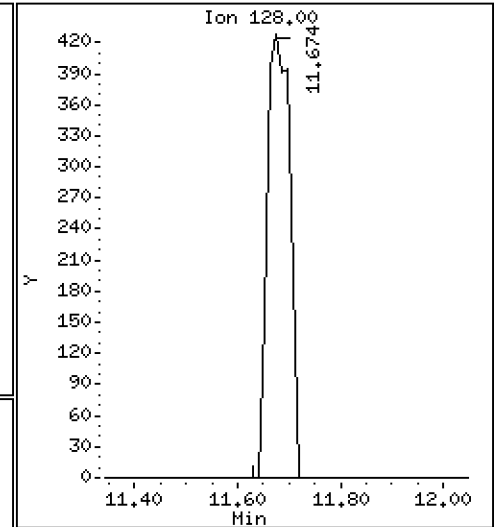
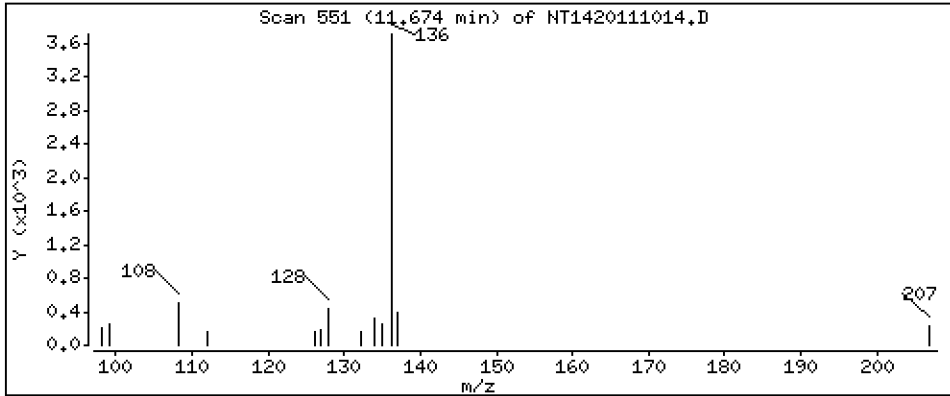
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

7 Naphthalene

Concentration: 0,01222 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

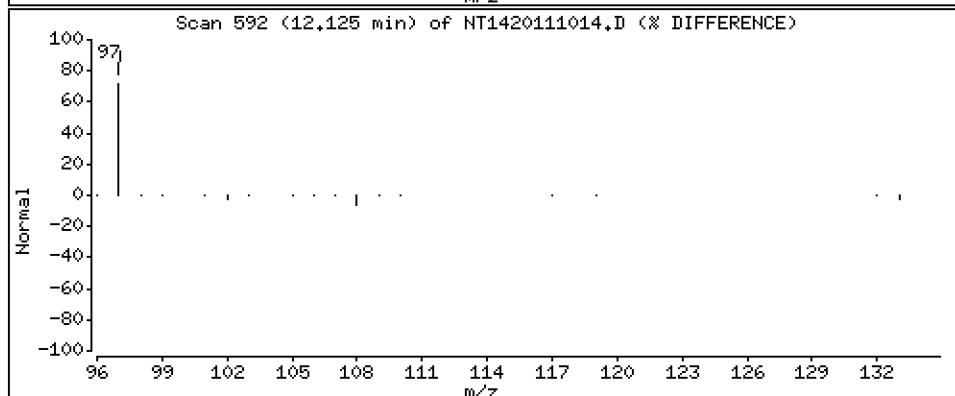
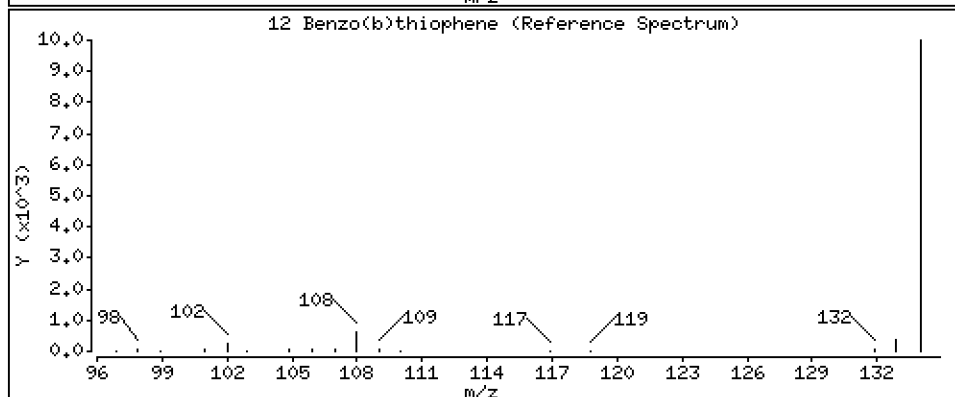
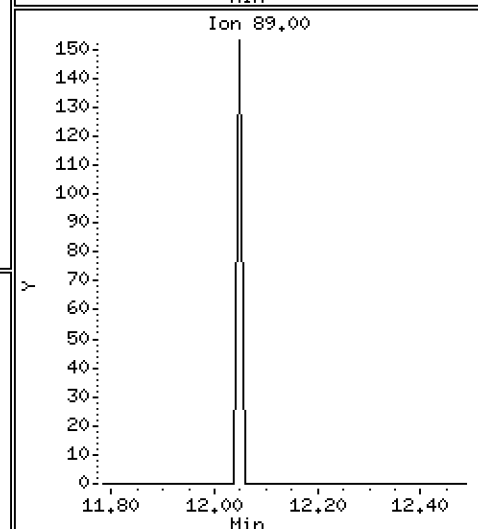
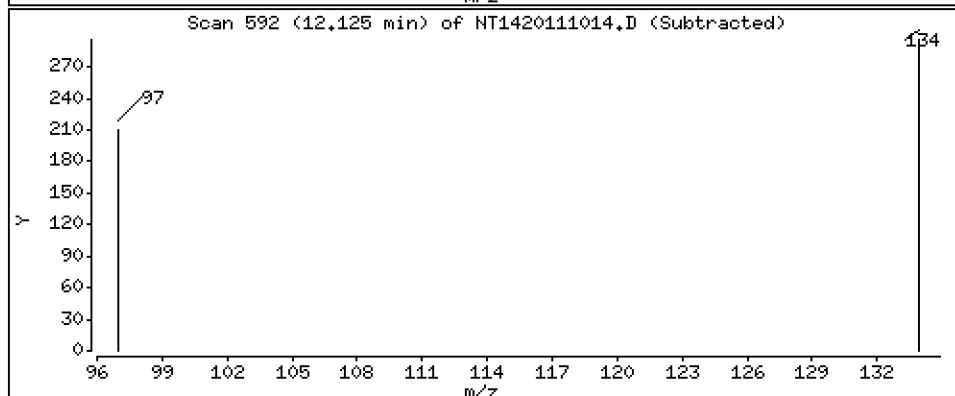
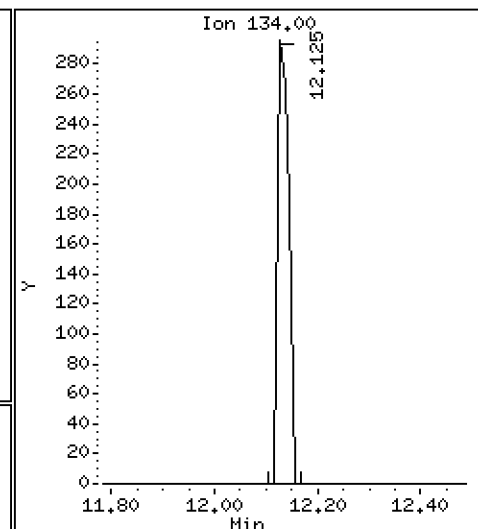
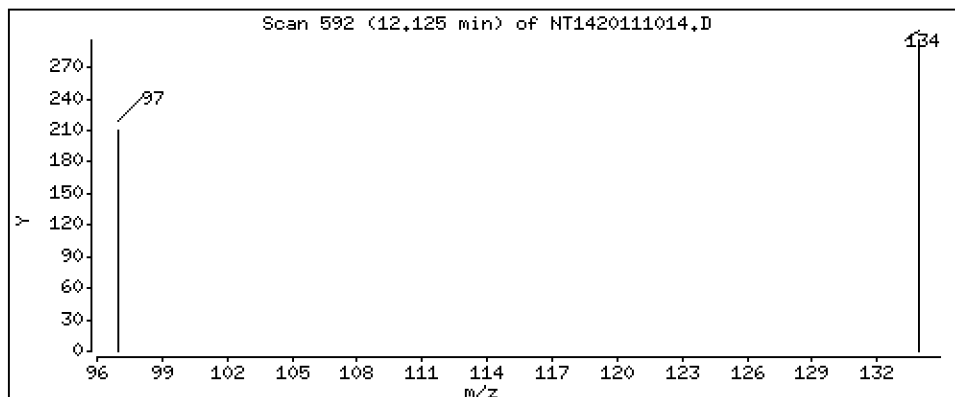
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Benzo(b)thiophene

Concentration: 0,005577 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

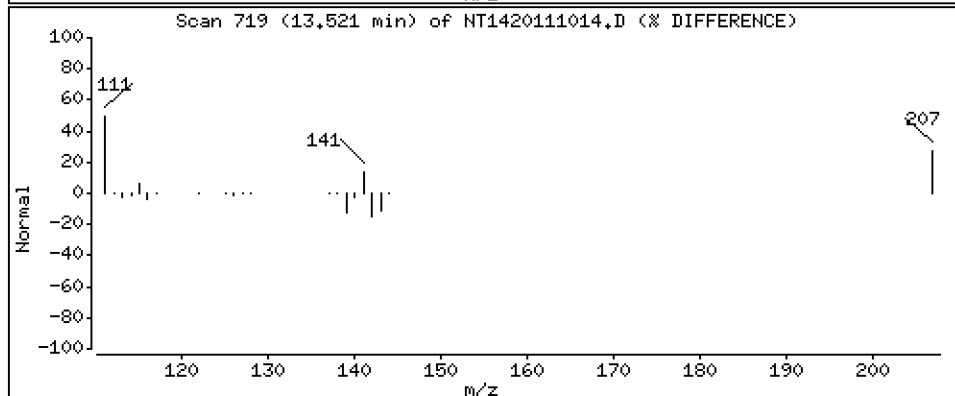
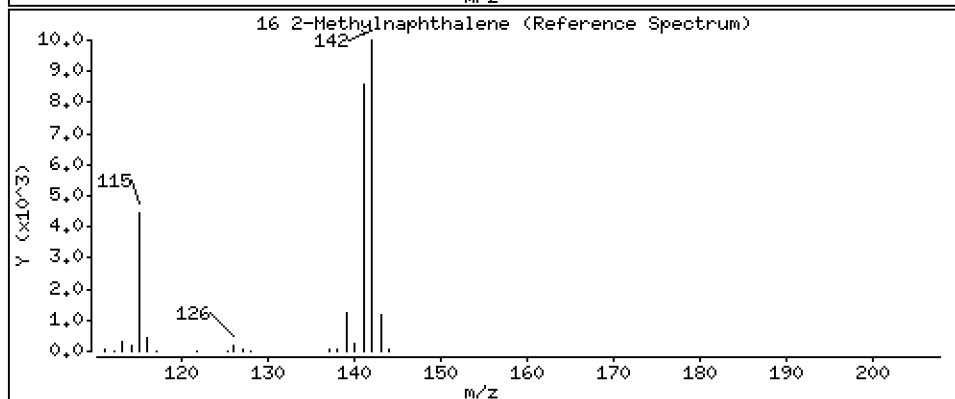
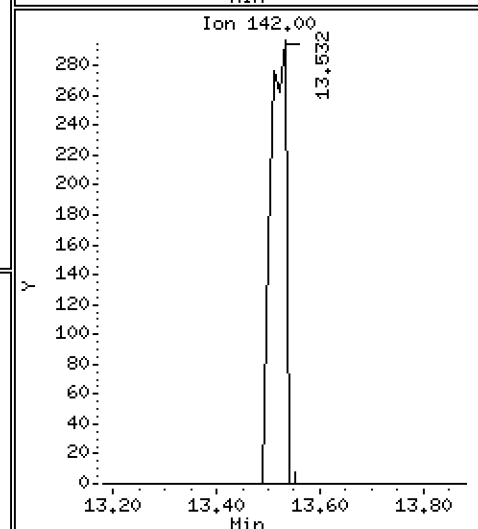
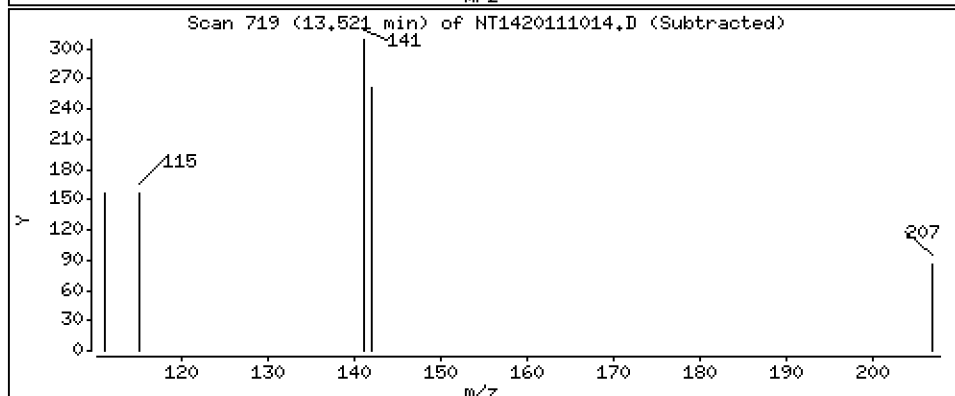
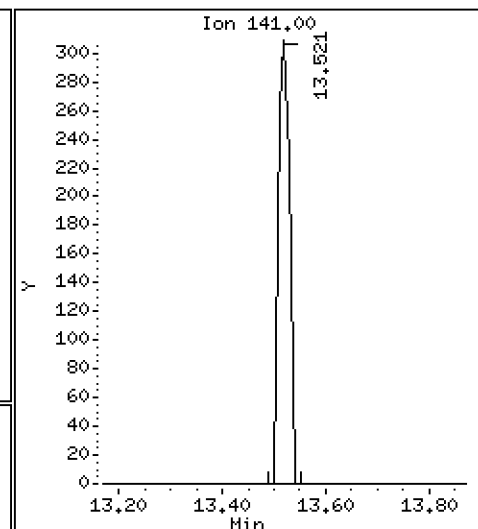
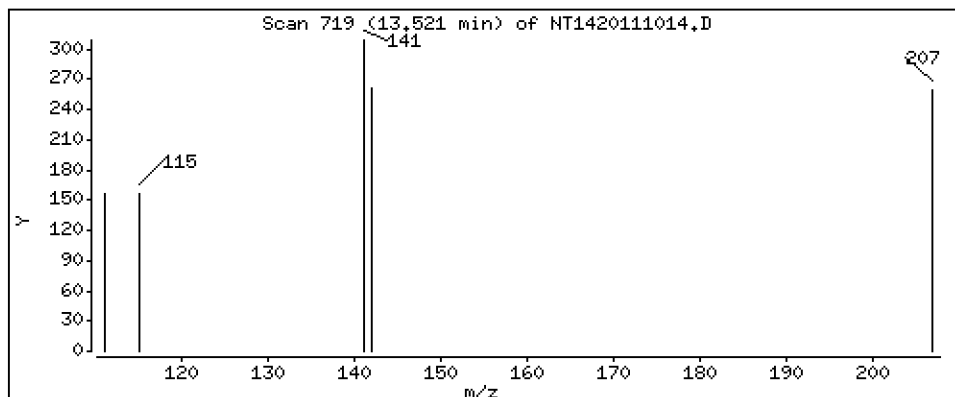
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 0,008154 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

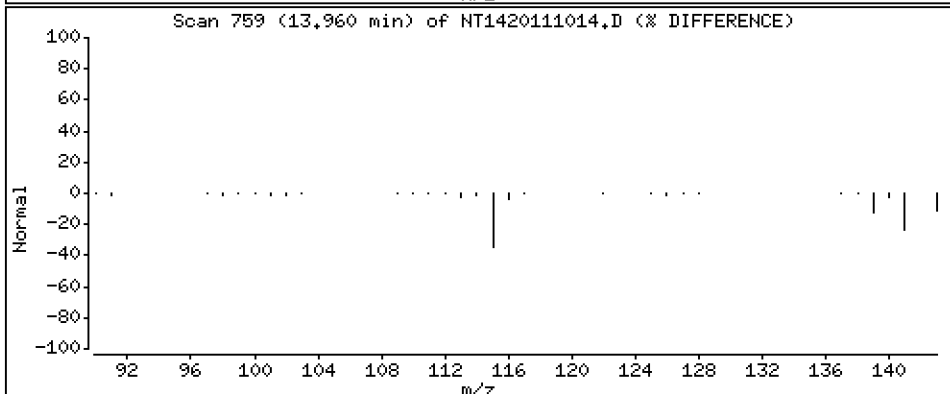
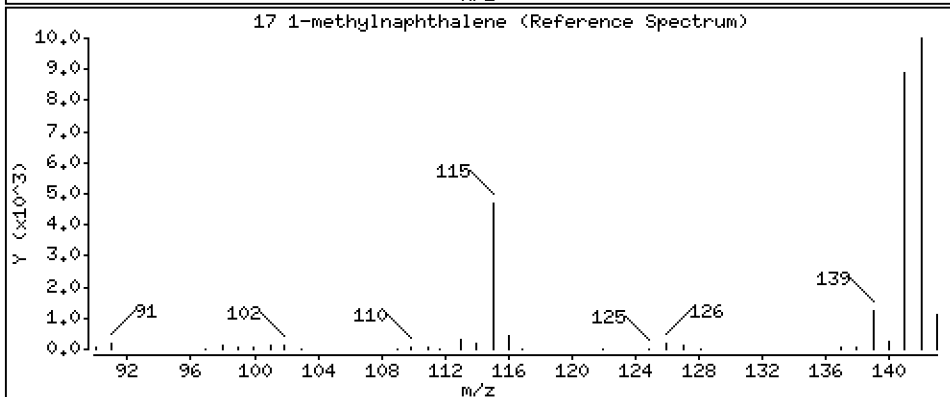
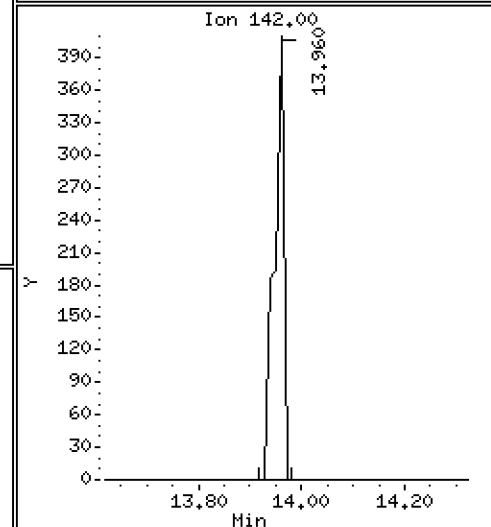
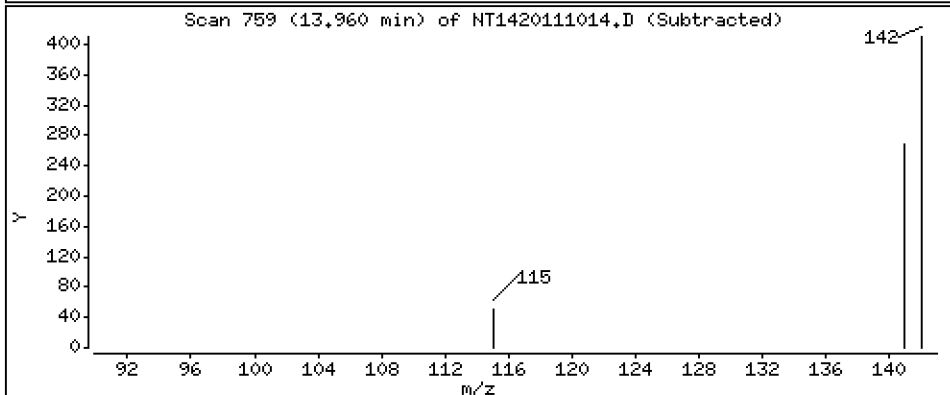
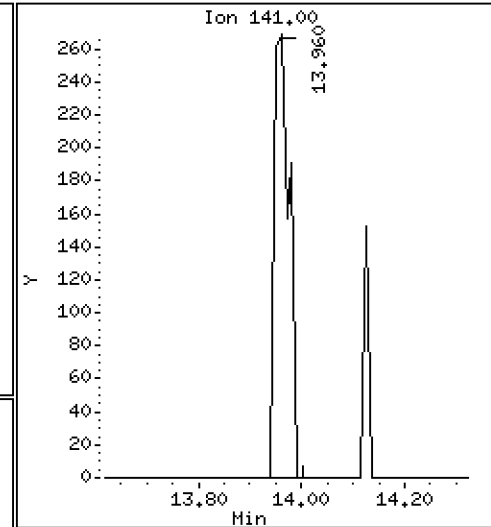
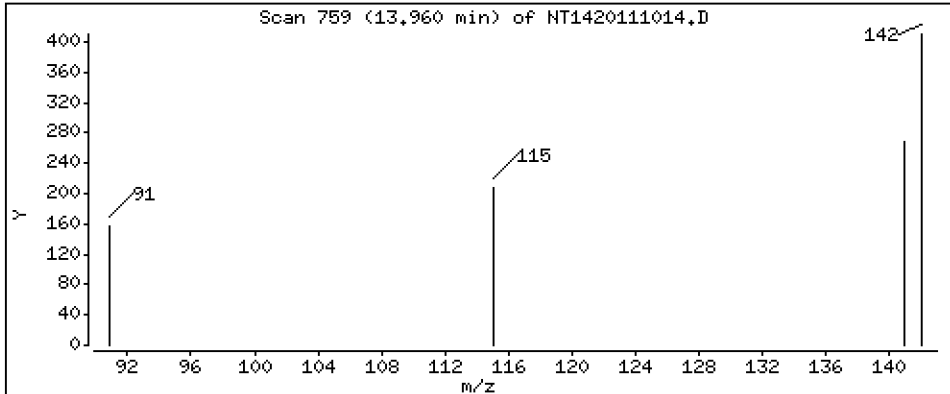
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 0,008715 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

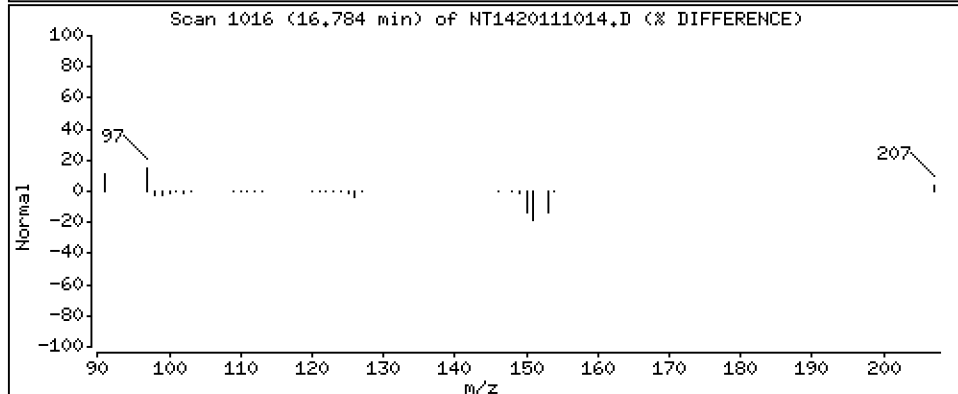
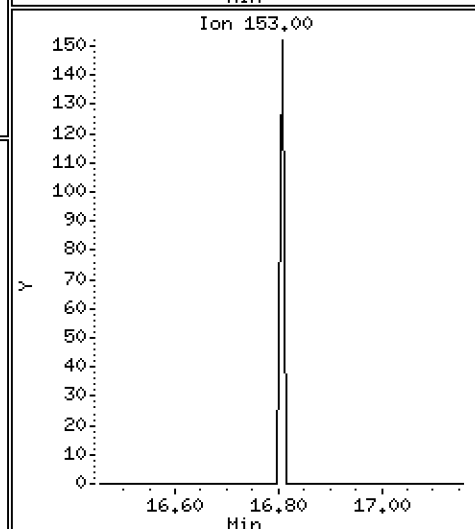
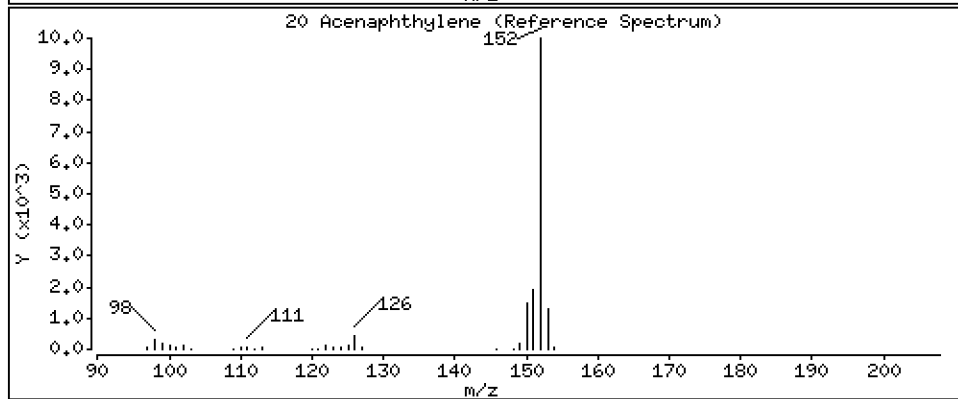
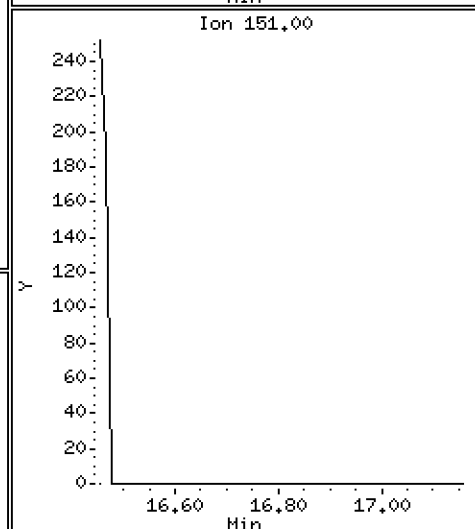
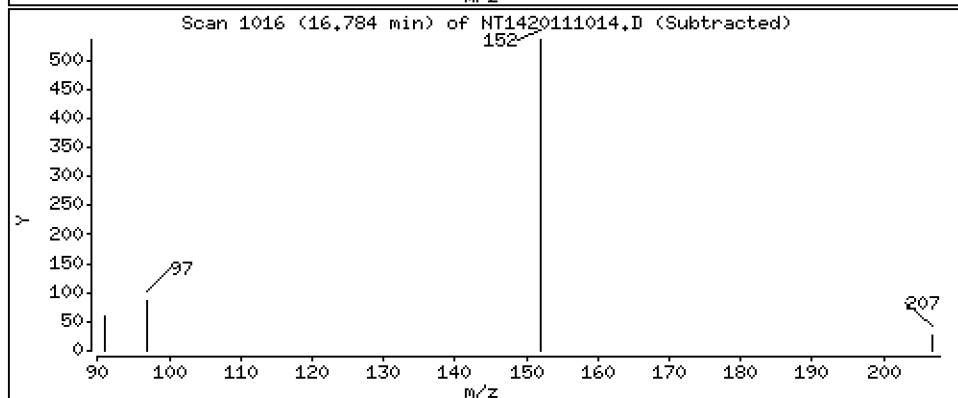
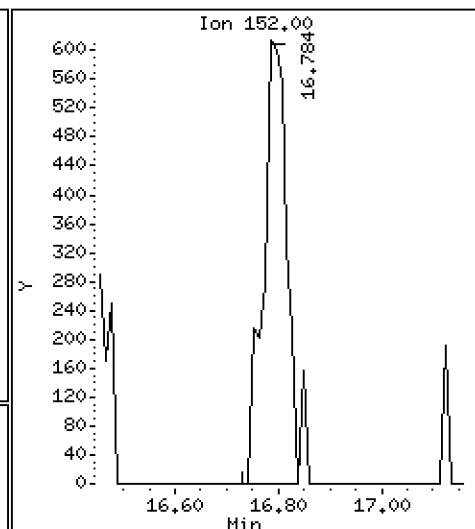
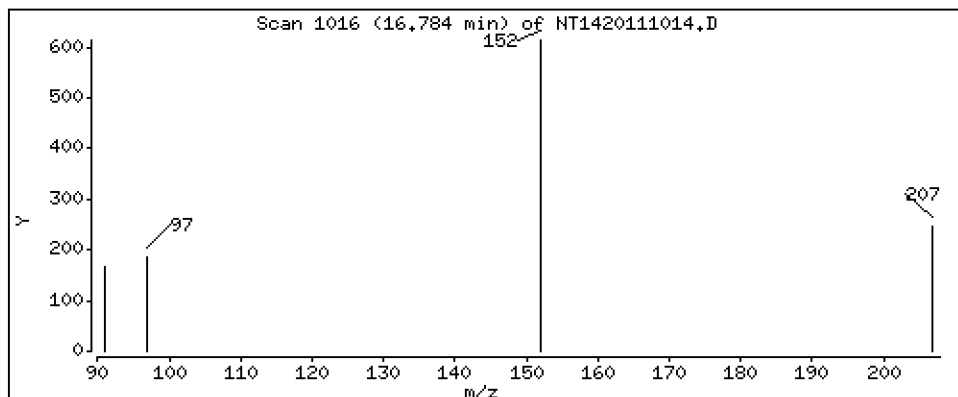
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 0,01713 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

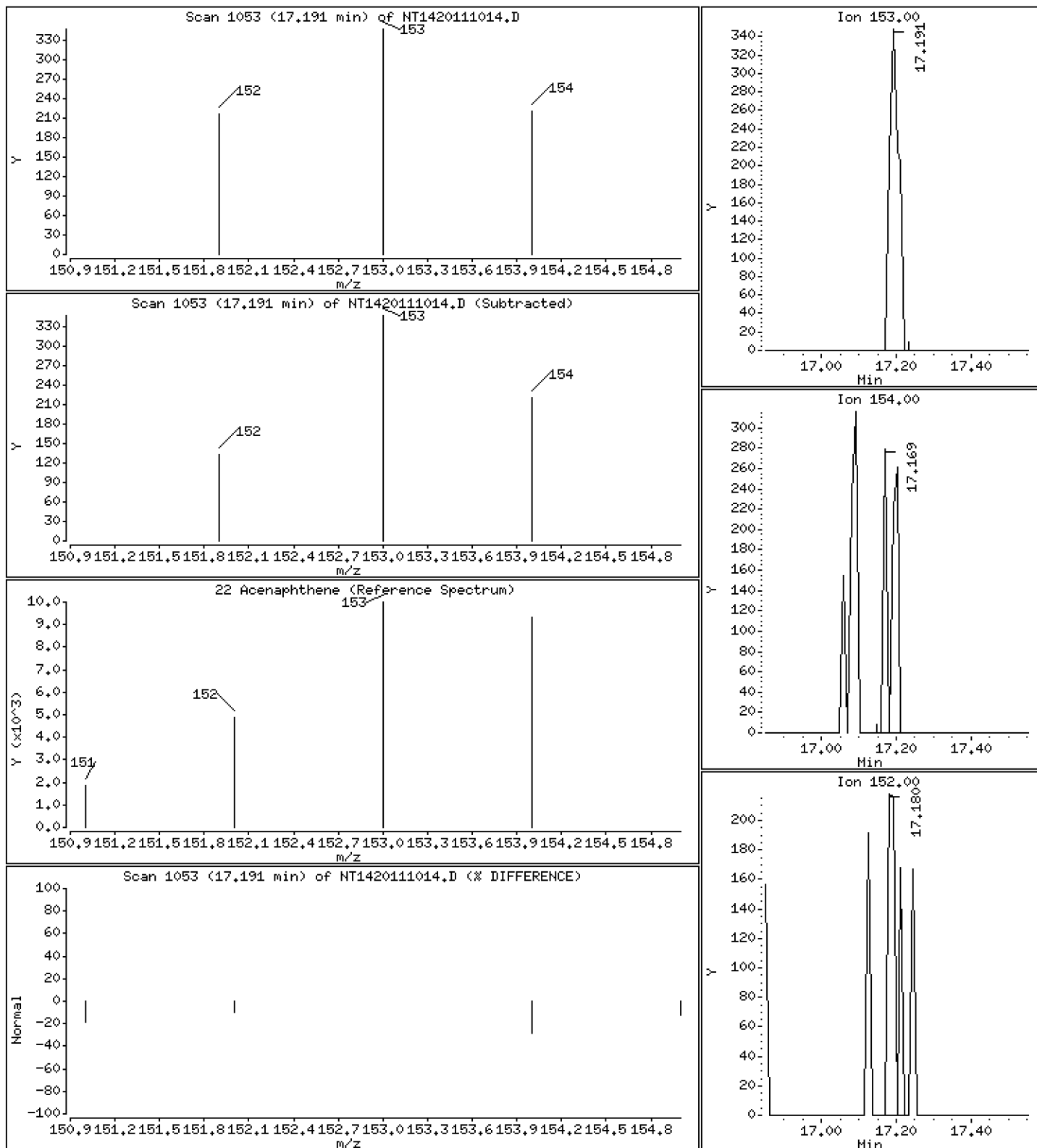
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 0,008491 ug/mL



Date : 10-NOV-2020 22:05

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BLK1

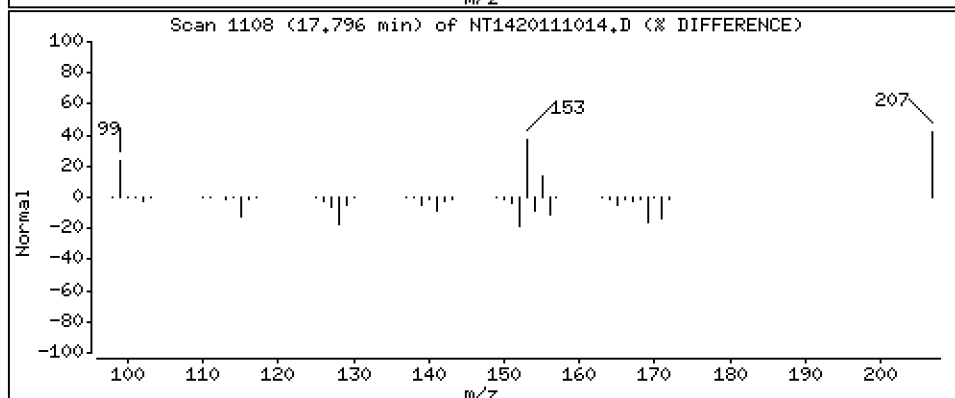
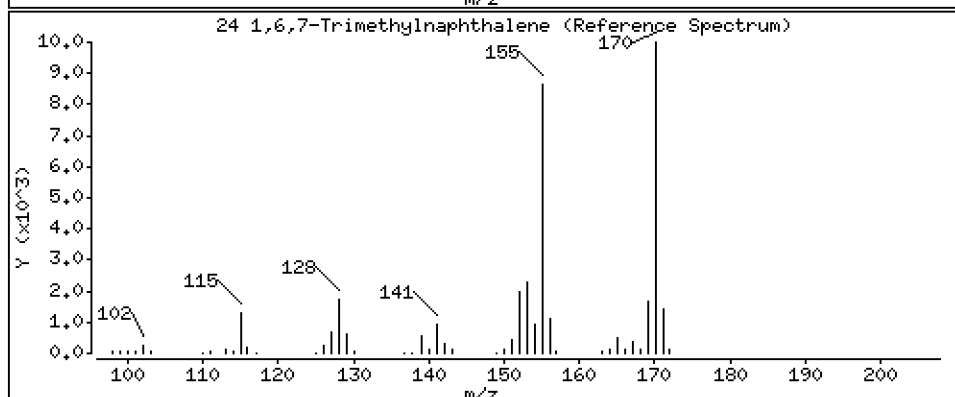
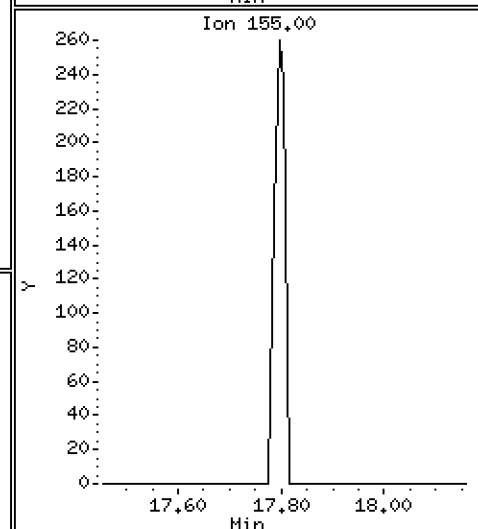
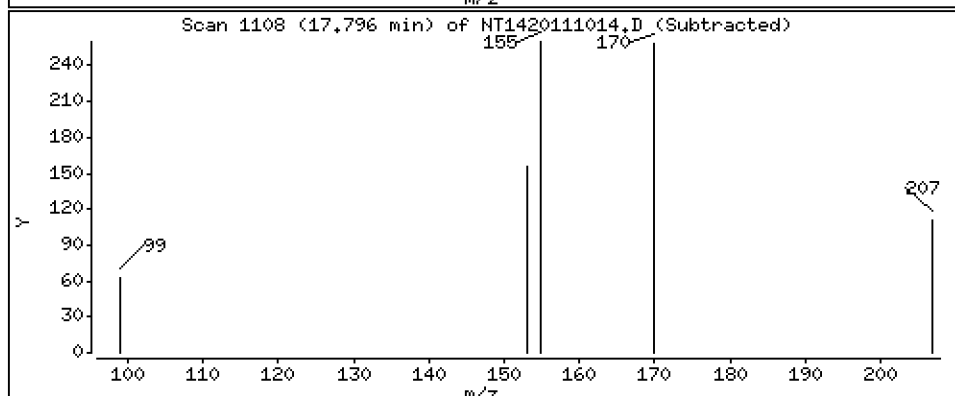
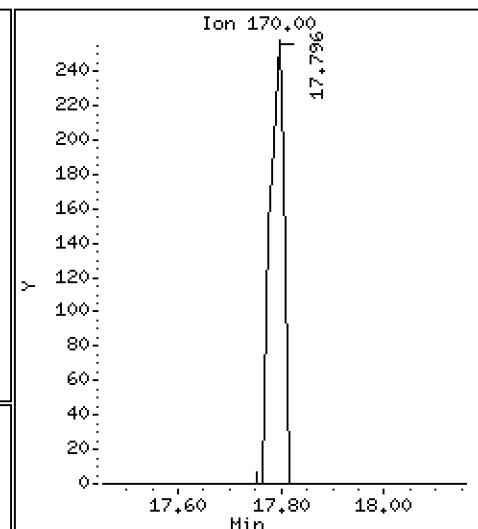
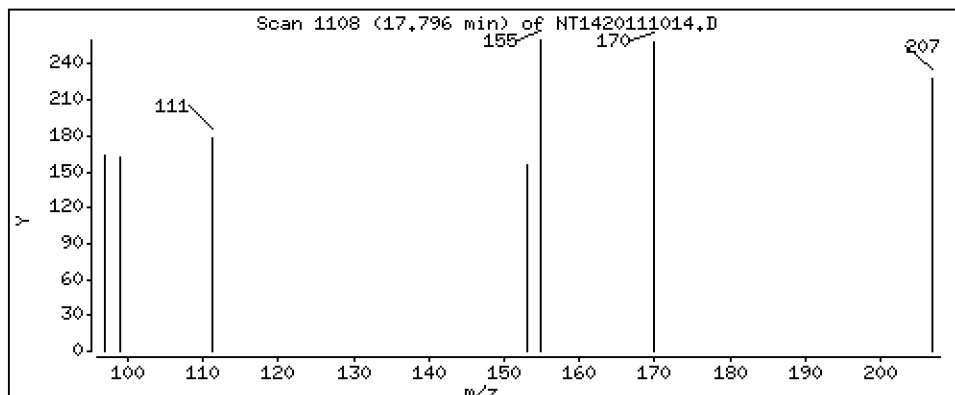
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

24 1,6,7-Trimethylnaphthalene

Concentration: 0,007306 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\NT1420111014.D
 Lab Smp Id: BIJ0841-BLK1
 Inj Date : 10-NOV-2020 22:05
 Operator : VTS
 Smp Info : BIJ0841-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Meth Date : 12-Nov-2020 08:02 yev
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 12
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

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		11.619	11.630	(0.624)	215999	2.04985	2.050(R)
7 Naphthalene	128		11.674	11.696	(0.627)	1288	0.01222	0.01222
12 Benzo(b)thiophene	134		12.124	12.135	(0.652)	494	0.00558	0.005577
16 2-Methylnaphthalene	141		13.520	13.520	(0.727)	524	0.00815	0.008154
17 1-methylnaphthalene	141		13.960	13.971	(0.750)	578	0.00872	0.008715
18 Biphenyl	154		Compound Not Detected.					
19 2,6-Dimethylnaphthalene	156		Compound Not Detected.					
20 Acenaphthylene	152		16.784	16.806	(0.902)	1983	0.01713	0.01713
\$ 21 Acenaphthene-d10	164		17.081	17.092	(0.918)	128385	2.02899	2.029(R)
22 Acenaphthene	153		17.191	17.202	(0.924)	644	0.00849	0.008491
23 Dibenzofuran	168		Compound Not Detected.					
24 1,6,7-Trimethylnaphthalene	170		17.795	17.806	(0.956)	523	0.00731	0.007306
* 25 Fluorene-d10	176		18.610	18.621	(1.000)	258251	2.00000	
26 Fluorene	166		Compound Not Detected.					
30 Dibenzothiophene	184		Compound Not Detected.					
\$ 35 Phenanthrene-d10	188		21.930	21.941	(0.995)	318339	2.64555	2.646(R)
36 Phenanthrene	178		Compound Not Detected.					
* 250 Anthracene-d10	188		22.051	22.062	(1.000)	251233	2.00000	
37 Anthracene	178		Compound Not Detected.					
42 Carbazole	167		Compound Not Detected.					
43 1-Methylphenanthrene	192		Compound Not Detected.					
44 Fluoranthene	202		Compound Not Detected.					
46 Pyrene	202		Compound Not Detected.					
51 Naphthobenzothiophene	234		Compound Not Detected.					
55 Benzo(a)anthracene	228		Compound Not Detected.					
\$ 56 Chrysene-d12	240		29.952	29.952	(0.910)	317446	2.74155	2.742(R)
57 Chrysene	228		Compound Not Detected.					
62 Benzo(b)fluoranthene	252		Compound Not Detected.					
63 Benzo(k)fluoranthene	252		Compound Not Detected.					
293 Benzo(j)fluoranthene	252		Compound Not Detected.					
246 Total Benzofluoranthenes	252		Compound Not Detected.					

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264		32.914	32.914	(1.000)	339610	2.00000	
64 Benzo(e)pyrene	252					Compound Not Detected.		
66 Benzo(a)pyrene	252					Compound Not Detected.		
\$ 67 Perylene-d12	264		33.252	33.252	(1.010)	310900	2.21393	2.214 (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
Lab File ID: NT1420111014.D
Lab Smp Id: BIJ0841-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
Misc Info:

Calibration Date: 10-NOV-2020
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	314961	157481	629922	258251	-18.01
250 Anthracene-d10	299129	149565	598258	251233	-16.01
251 Benzo(e)pyrene-d1	453248	226624	906496	339610	-25.07

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.61	-0.06
250 Anthracene-d10	22.06	21.56	22.56	22.05	-0.05
251 Benzo(e)pyrene-d1	32.91	32.41	33.41	32.91	-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 - NT1420111014.D

Lab ID: BIJ0841-BLK1

nt14.i, 20201110.b\ALKYLPNA.m, 10-NOV-2020 22:05

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: NT1420111004.D

On Column LOD for nt14.i, 20201110.b\ALKYLPNA.m, TARGETS.sub = 0.0000

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



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BIJ0841-BLK2</u>
Sampled:	<u>N/A</u>	Prepared:	<u>10/29/20 10:56</u>
Solids:		Preparation:	<u>EPA 3520C (Liq Liq)</u>
Batch:	<u>BIJ0841</u>	Sequence:	<u>SIK0158</u>
Instrument:	<u>NT14</u>	Column:	<u>ZB-5MS</u>
		Cleanups:	<u>Silica Gel</u>
		File ID:	<u>NT1420111014S.D</u>
		Analyzed:	<u>11/10/20 22:05</u>
		Initial/Final:	<u>500 mL / 0.5 mL</u>
		Calibration:	<u>DI00041</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
C1DEC	C1-Decalins	1	0.020	U		0.020
C2DEC	C2-Decalins	1	0.020	U		0.020
C3DEC	C3-Decalins	1	0.020	U		0.020
C4DEC	C4-Decalins	1	0.020	U		0.020
C1NAPH	C1-Naphthalenes	1	0.020	U		0.020
C2NAPH	C2-Naphthalenes	1	0.020	U		0.020
C3NAPH	C3-Naphthalenes	1	0.020	U		0.020
C4NAPH	C4-Naphthalenes	1	0.020	U		0.020
C1FLR	C1-Fluorenes	1	0.020	U		0.020
C4PHNANT	C4-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C1FLPYR	C1-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C2FLR	C2-Fluorenes	1	0.020	U		0.020
C3FLR	C3-Fluorenes	1	0.020	U		0.020
C1DBTPH	C1-Dibenzothiophenes	1	0.020	U		0.020
C2DBTPH	C2-Dibenzothiophenes	1	0.020	U		0.020
C3DBTPH	C3-Dibenzothiophenes	1	0.020	U		0.020
C4DBTPH	C4-Dibenzothiophenes	1	0.020	U		0.020
C1PHNANT	C1-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2PHNANT	C2-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C3PHNANT	C3-Phenanthrenes/Anthracenes	1	0.020	U		0.020
C2FLPYR	C2-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C3FLPYR	C3-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C4FLPYR	C4-Fluoranthenes/Pyrenes	1	0.020	U		0.020
C1BAACYR	C1-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C2BAACYR	C2-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C3BAACYR	C3-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C4BAACYR	C4-Benzo(a)anthracenes/Chrysenes	1	0.020	U		0.020
C1BZTPH	C1-Benzothiophenes	1	0.020	U		0.020
C2BZTPH	C2-Benzothiophenes	1	0.020	U		0.020
C3BZTPH	C3-Benzothiophenes	1	0.020	U		0.020
C1NPBTP	C1-Naphthobenzothiophenes	1	0.020	U		0.020
C2NPBTP	C2-Naphthobenzothiophenes	1	0.020	U		0.020
C3NPBTP	C3-Naphthobenzothiophenes	1	0.020	U		0.020
C4NPBTP	C4-Naphthobenzothiophenes	1	0.020	U		0.020
C1DBA	C1-Dibenzo(a)anthracenes	1	0.020	U		0.020
C2DBA	C2-Dibenzo(a)anthracenes	1	0.020	U		0.020



Form I
METHOD BLANK DATA SHEET
EPA 8270E-SIM

Blank

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Matrix: Water Laboratory ID: BIJ0841-BLK2 File ID: NT1420111014S.D
Sampled: N/A Prepared: 10/29/20 10:56 Analyzed: 11/10/20 22:05
Solids: Preparation: EPA 3520C (Liq Liq) Initial/Final: 500 mL / 0.5 mL
Batch: BIJ0841 Sequence: SIK0158 Calibration: DI00041
Instrument: NT14 Column: ZB-5MS Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
C3DBA	C3-Dibenzo(a)anthracenes	1	0.020	U		0.020

Data File: \\target\share\chem3\nt14.1\20201110.16\SIM.B\NT1420111014S.D

Date : 10-NOV-2020 22:05

Client ID:

Sample Info: B1J0841-BLK1

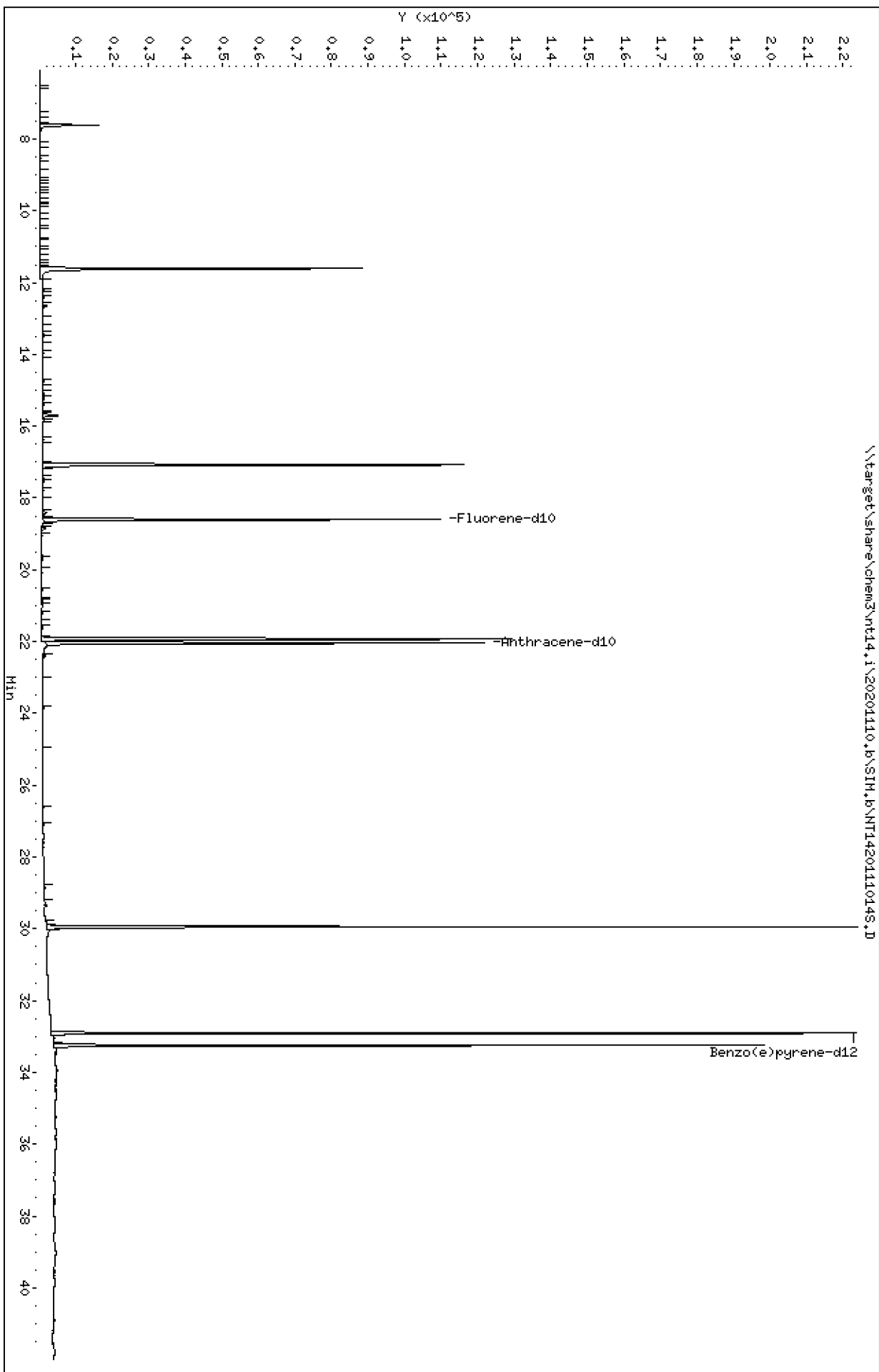
Column phase: Rxi-17S11 MS

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\20201110.b\SIM.b\NT1420111014S.D
 Lab Smp Id: BIJ0841-BLK2
 Inj Date : 10-NOV-2020 22:05
 Operator : VTS
 Smp Info : BIJ0841-BLK1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
 Meth Date : 13-Nov-2020 08:42 yev
 Cal Date : 17-OCT-2020 17:58
 Als bottle: 12
 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	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/mL)
3 C1-Decalin	152							
4 C2-Decalin	166							
5 C3-Decalin	180							
247 C4-Decalin	194							
8 C1-Naphthalenes	142							
9 C2-Naphthalenes	156							
10 C3-Naphthalenes	170							
11 C4-Naphthalenes	184							
13 C1-Benzothiophenes	148							
14 C2-Benzothiophenes	162							
15 C3-Benzothiophenes	176							
27 C1-Fluorenes	180							
28 C2-Fluorenes	194							
29 C3-Fluorenes	208							
31 C1-Dibenzothiophenes	198							
* 25 Fluorene-d10	176		18.600	18.611	(1.000)	255341	2.00000	
32 C2-Dibenzothiophenes	212							
33 C3-Dibenzothiophenes	226							
34 C4-Dibenzothiophenes	240							
38 C1-Phenanthrenes/Anthracenes	192							
39 C2-Phenanthrenes/Anthracenes	206							
40 C3-Phenanthrenes/Anthracenes	220							
41 C4-Phenanthrenes/Anthracenes	234							
48 C1-Fluoranthenes/Pyrenes	216							
* 250 Anthracene-d10	188		22.041	22.052	(1.000)	279400	2.00000	
49 C2-Fluoranthenes/Pyrenes	230							
50 C3-Fluoranthenes/Pyrenes	244							
249 C4-Fluoranthenes/Pyrenes	258							
52 C1-Naphthobenzothiophenes	248							
53 C2-Naphthobenzothiophenes	262							
54 C3-Naphthobenzothiophenes	276							
248 C4-Naphthobenzothiophenes	290							
58 C1-Benzo(a)anthracenes/Chrysen	242							

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	32.916	(1.000)	385556	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: NT1420111014S.D
Lab Smp Id: BIJ0841-BLK2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\SIM.b\ALKYLRANGE.m
Misc Info:

Calibration Date: 10-NOV-2020
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	304839	152420	609678	255341	-16.24
250 Anthracene-d10	339521	169761	679042	279400	-17.71
251 Benzo(e)pyrene-d1	505121	252561	1010242	385556	-23.67

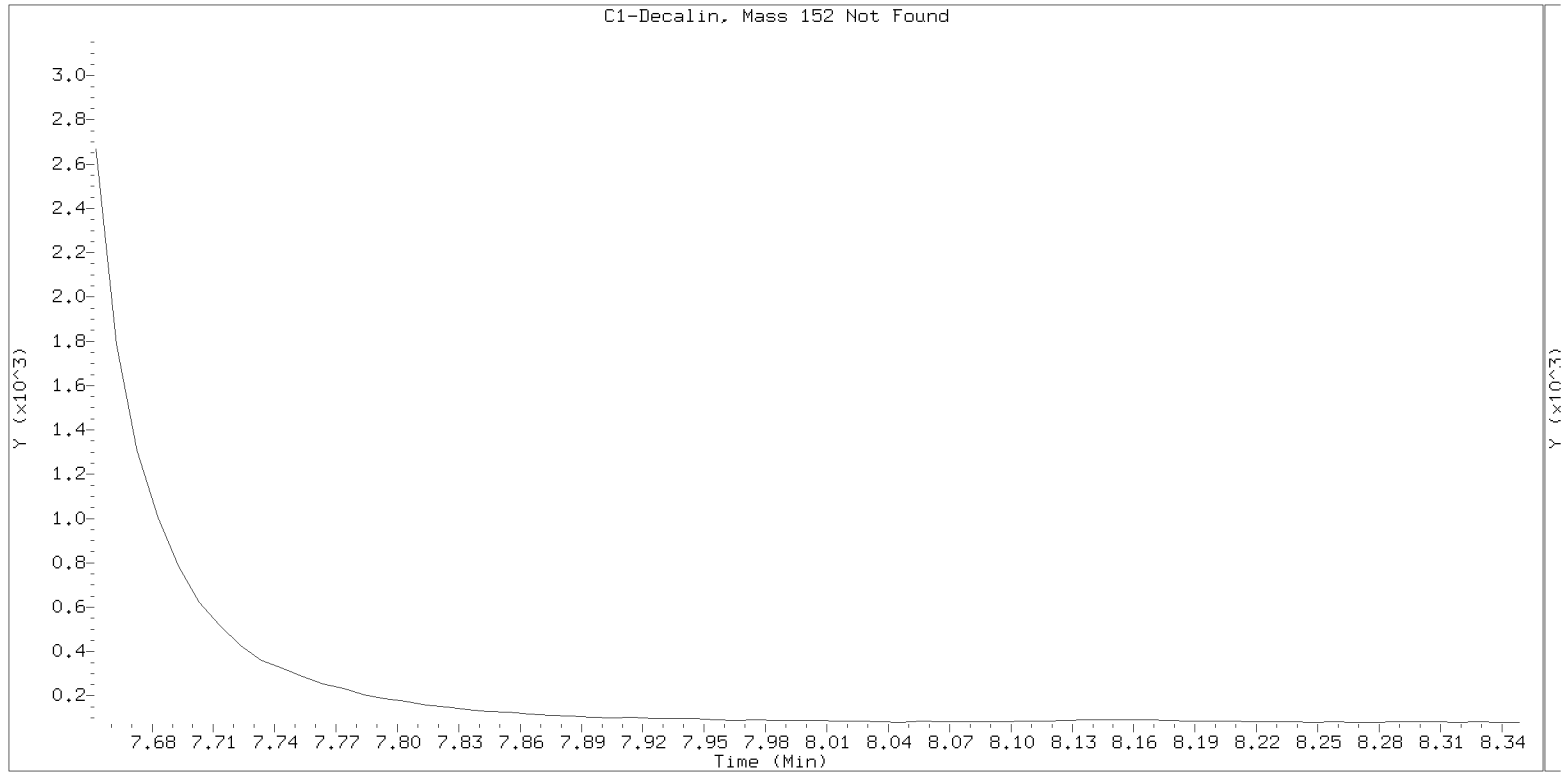
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.61	18.11	19.11	18.60	-0.06
250 Anthracene-d10	22.05	21.55	22.55	22.04	-0.05
251 Benzo(e)pyrene-d1	32.92	32.42	33.42	32.90	-0.03

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.

SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

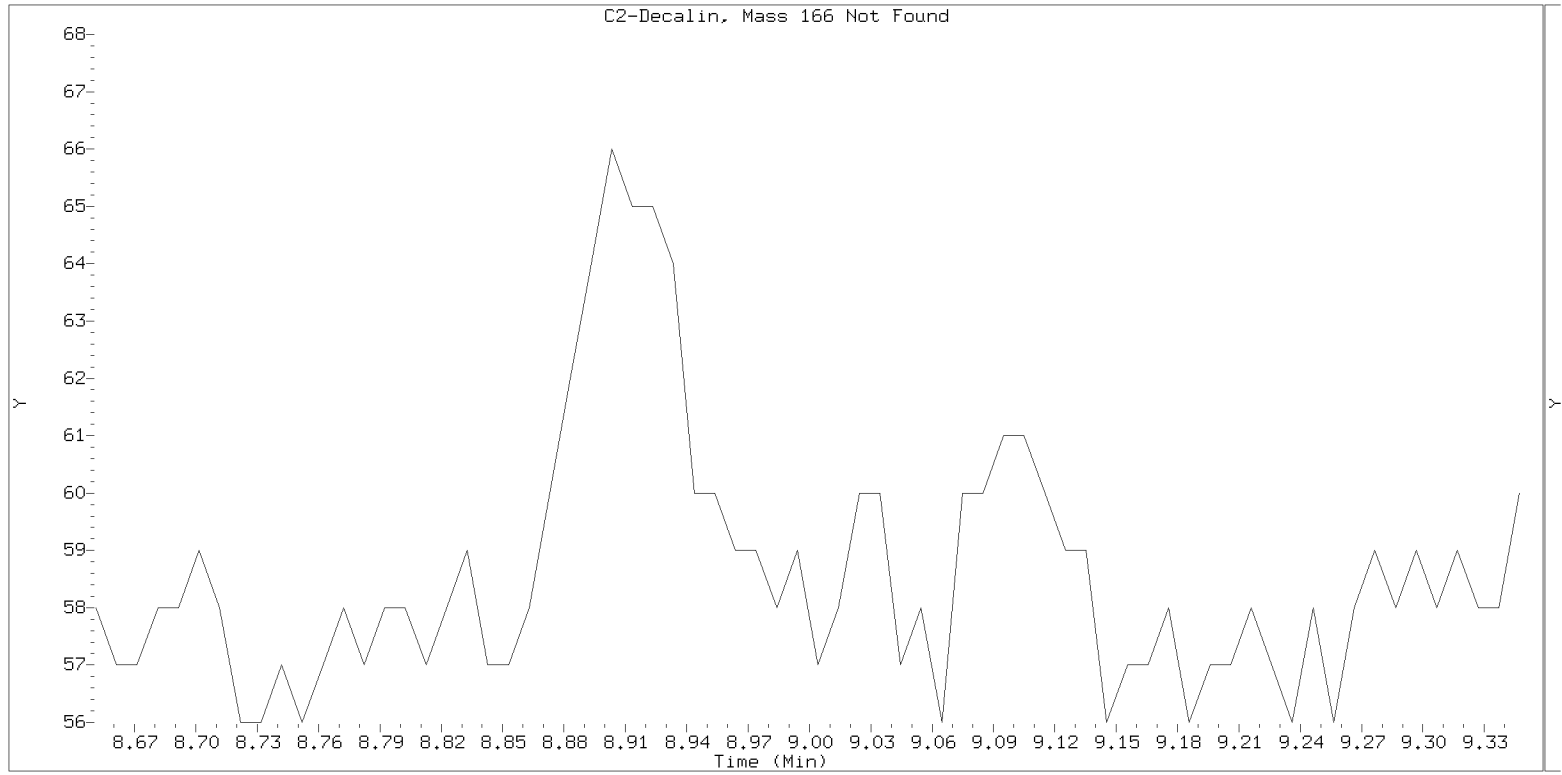
nt14.i, SIM.b\ALKYLRANGE.m, 10-NOV-2020 22:05



SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

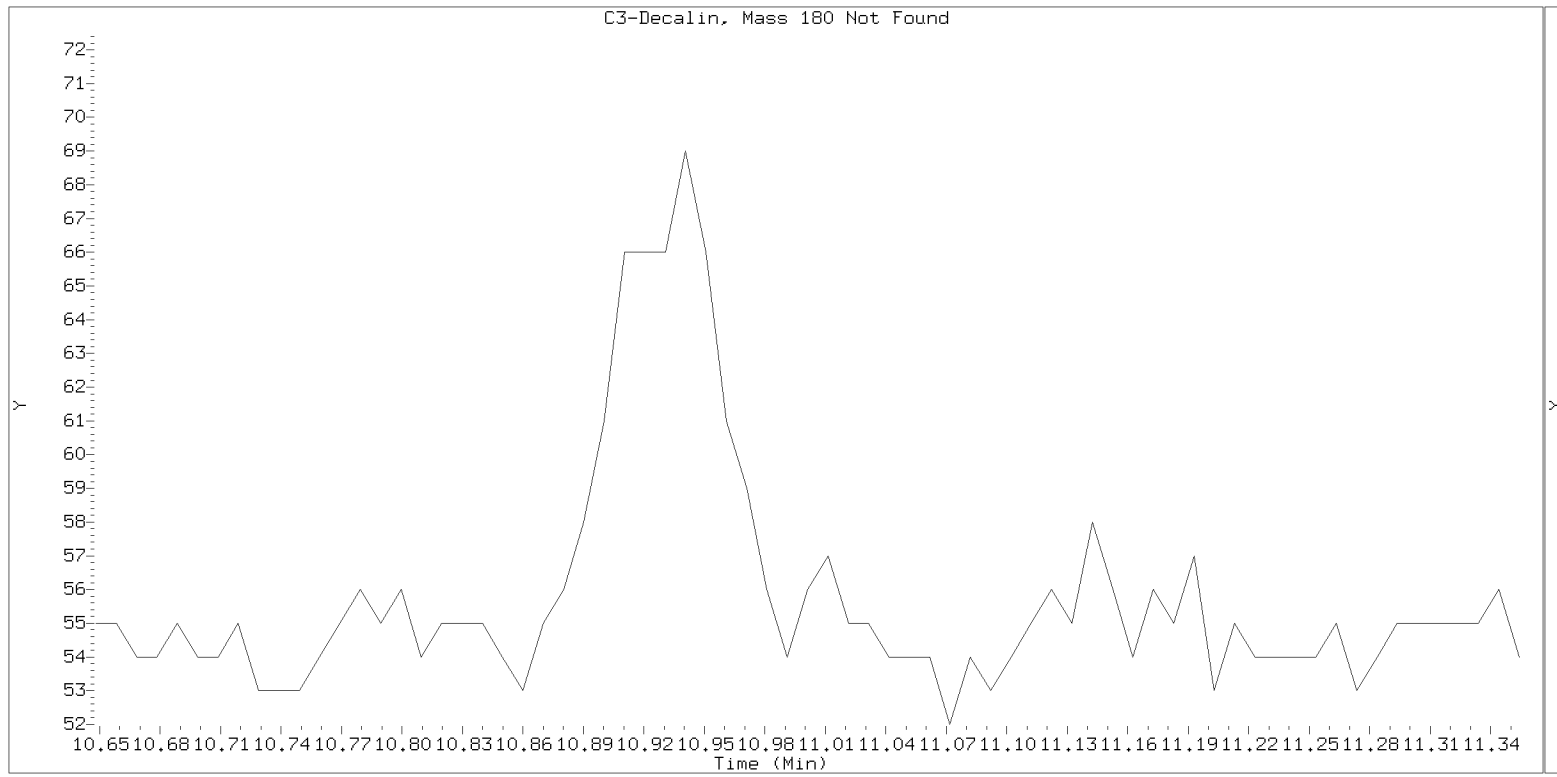
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

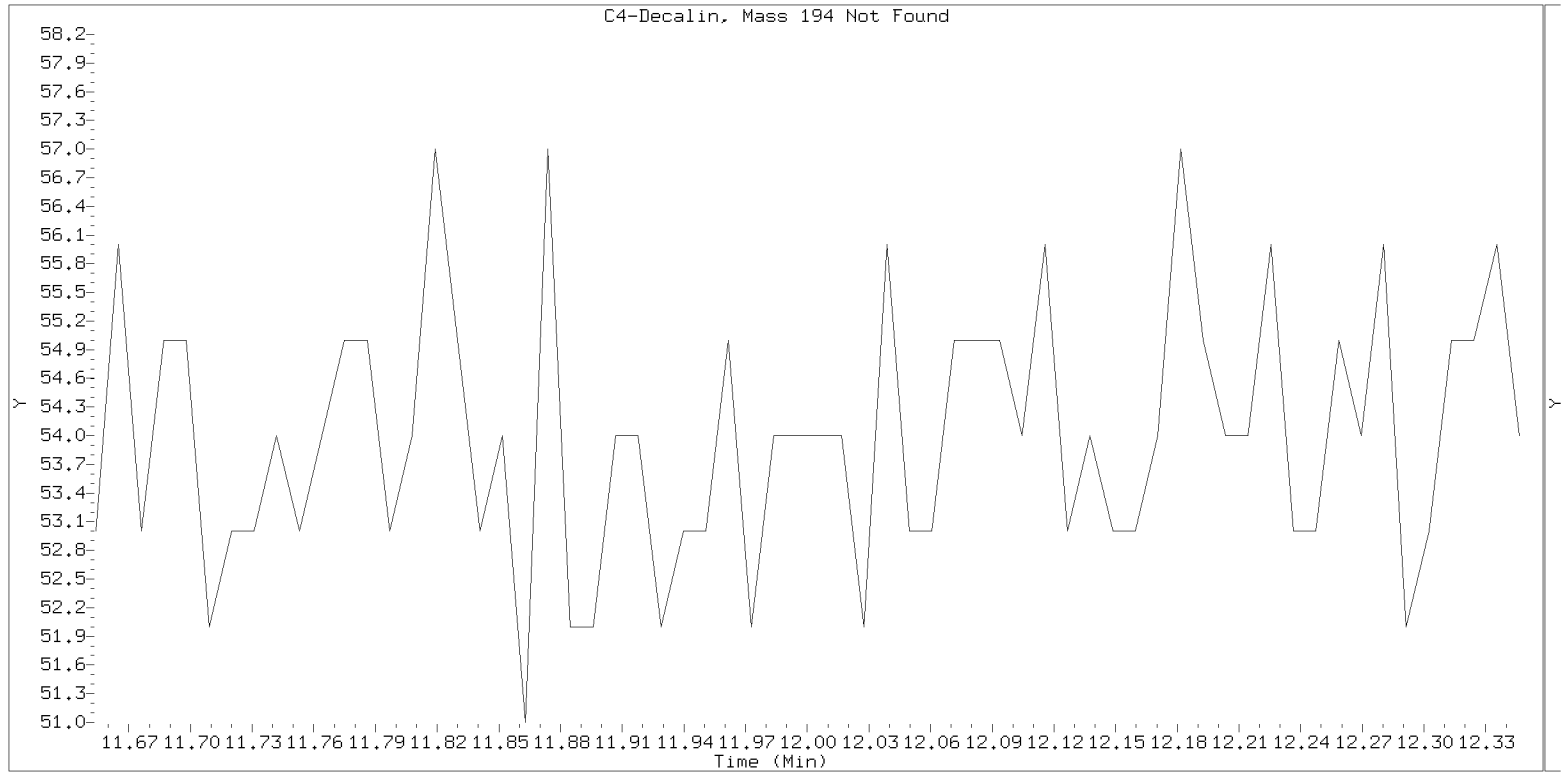
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

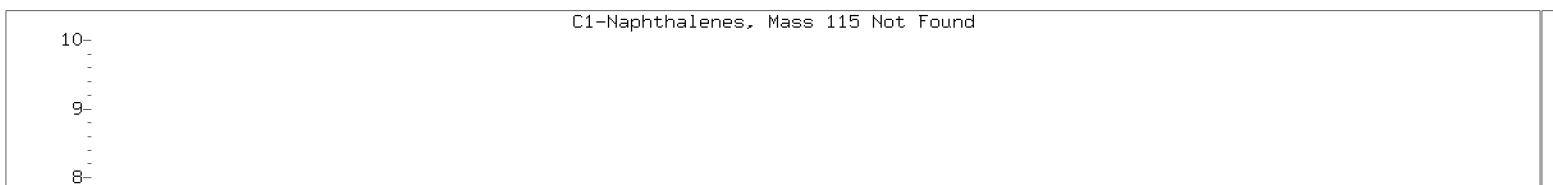
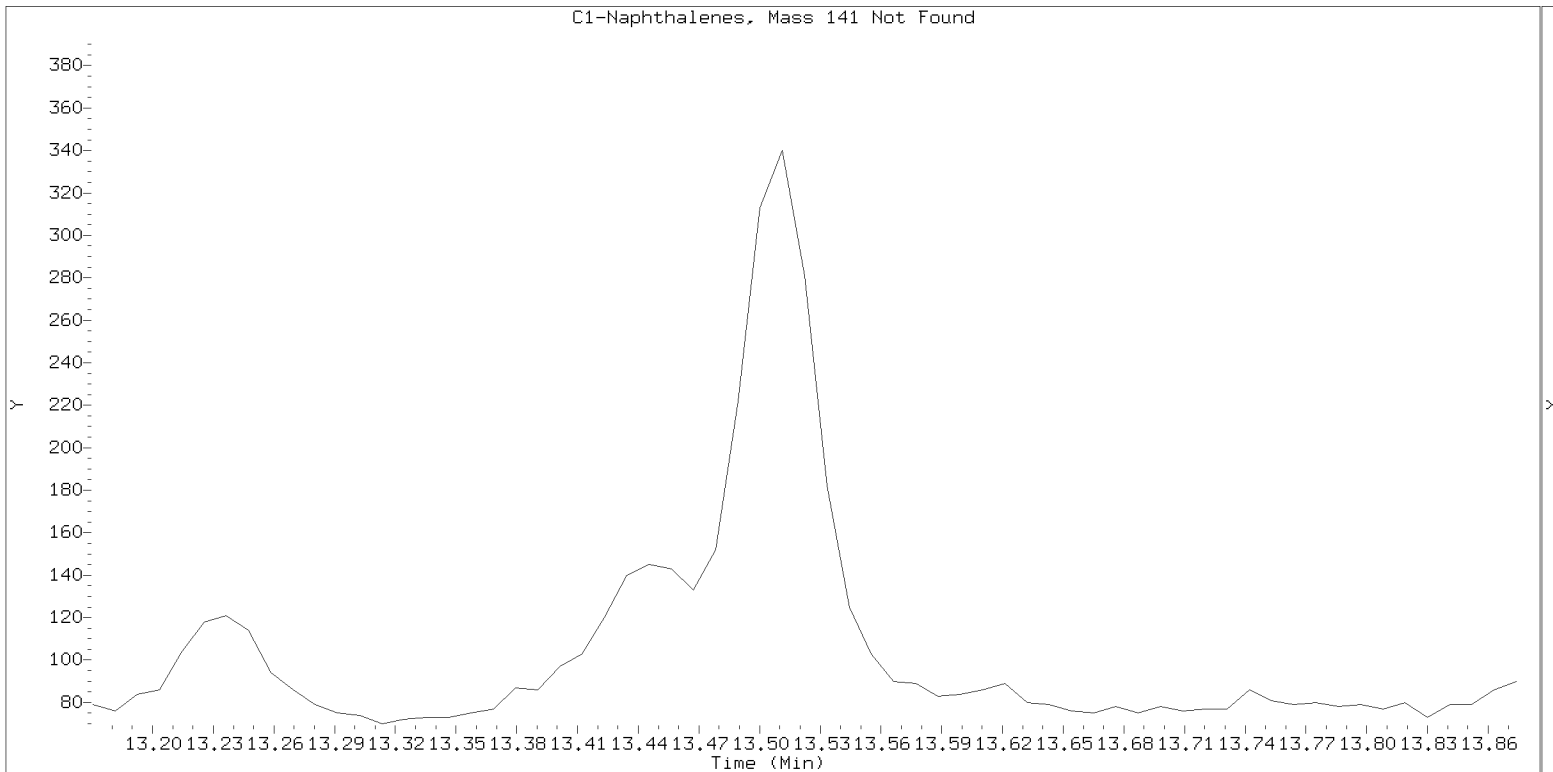
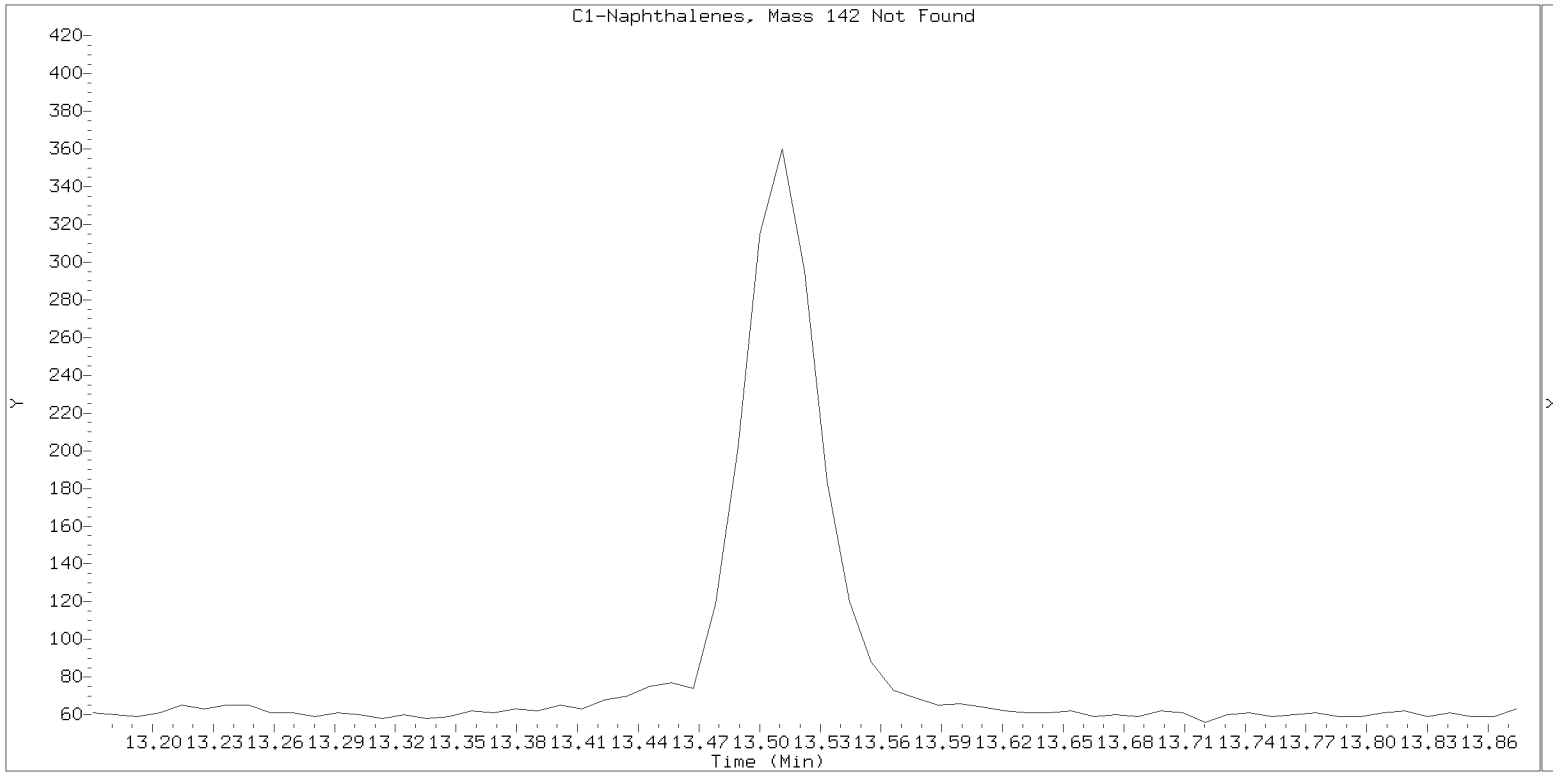
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

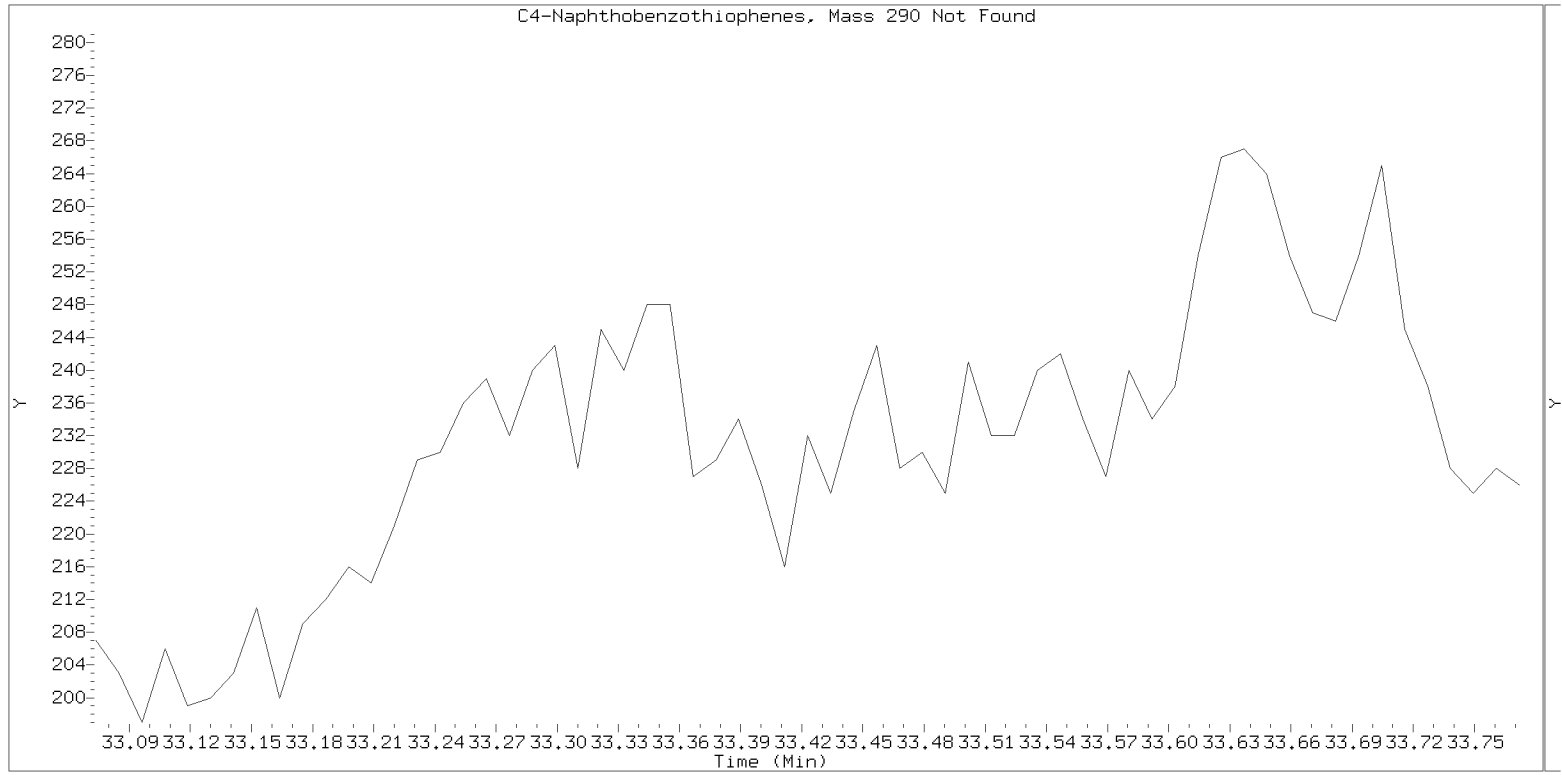
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

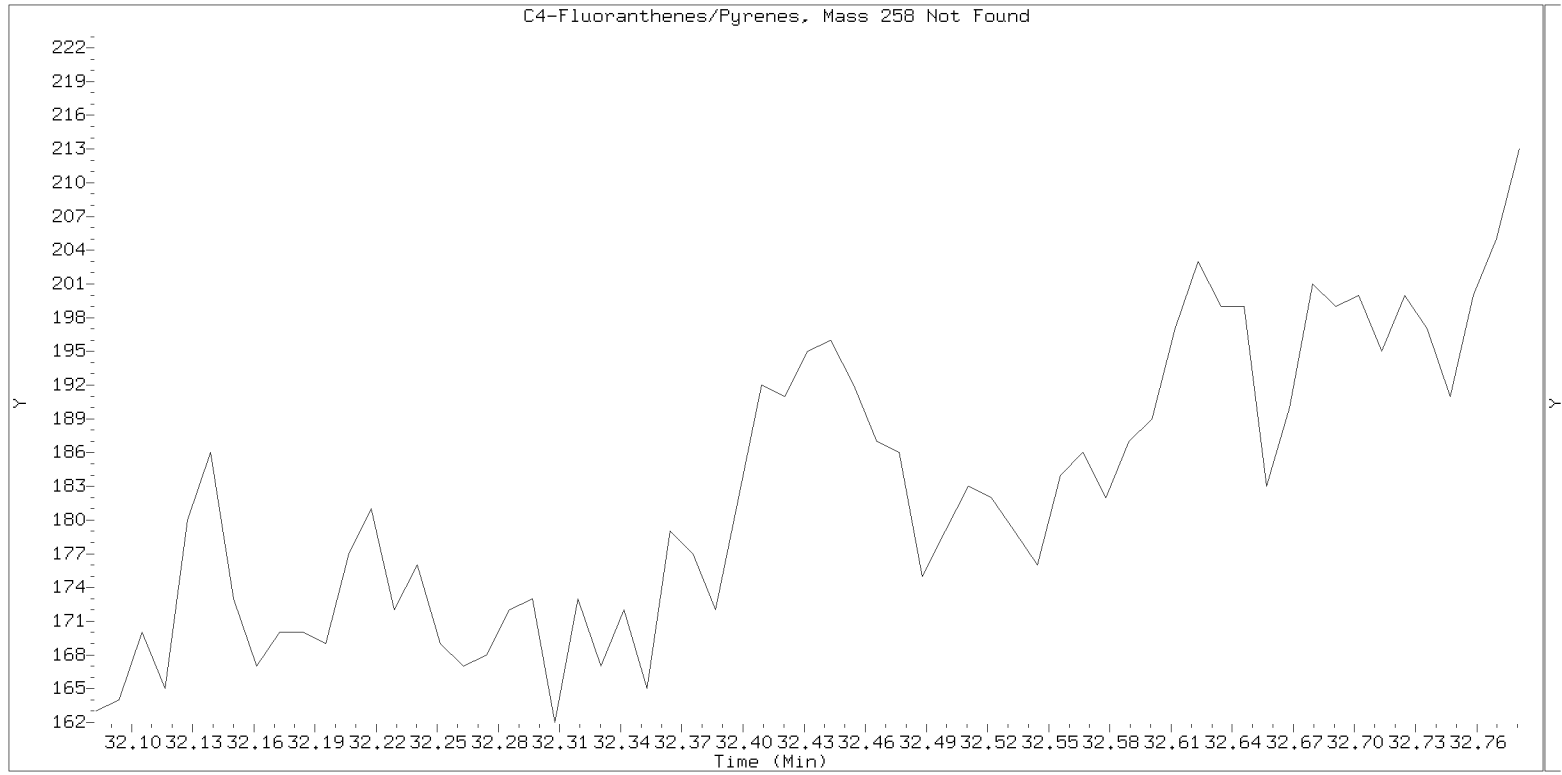
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

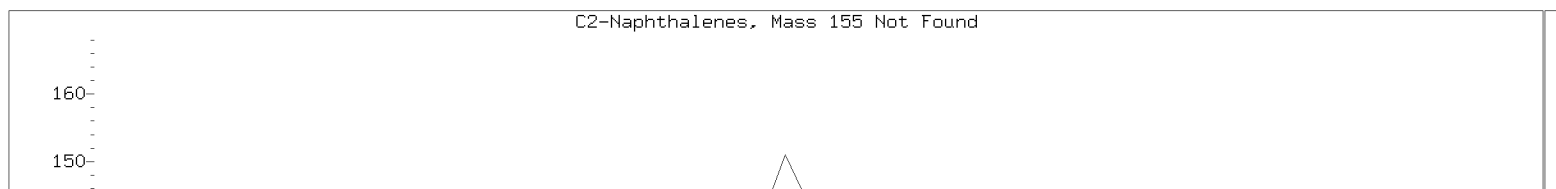
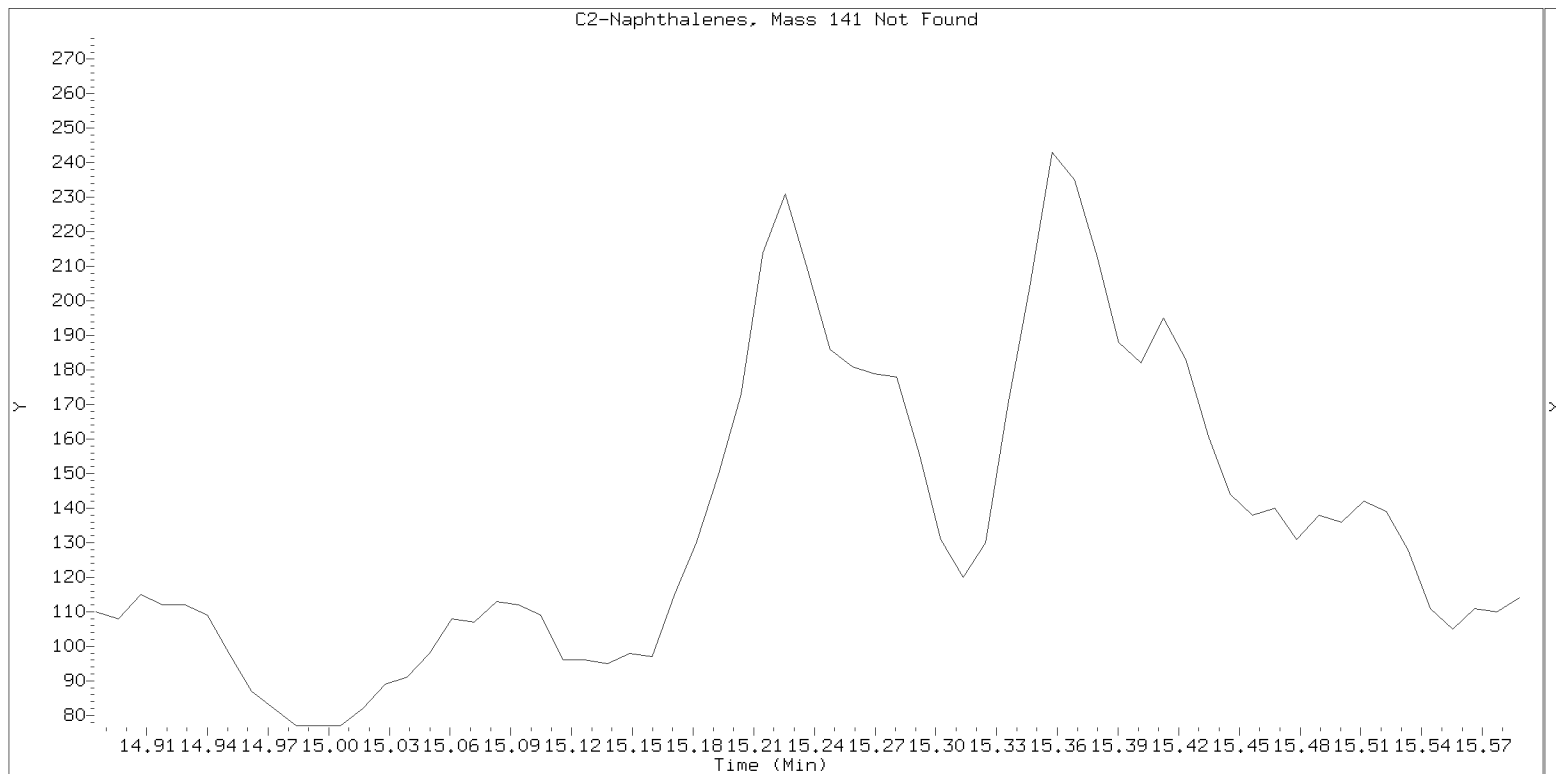
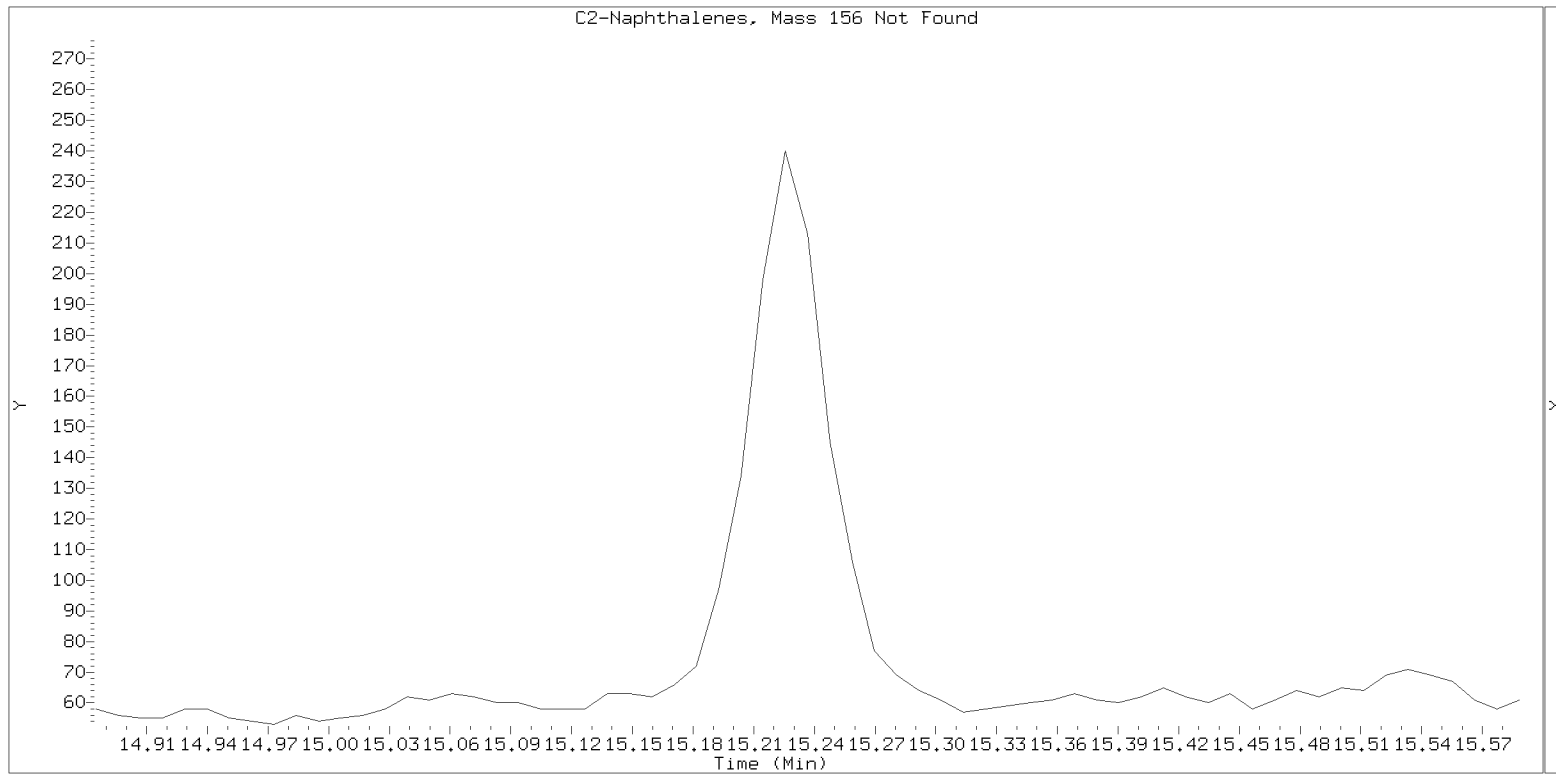
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

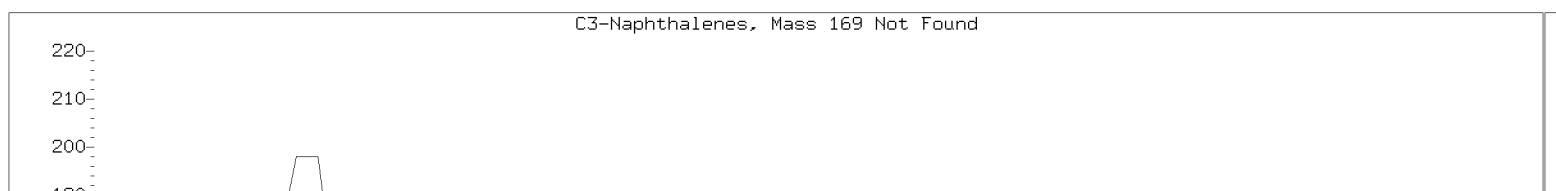
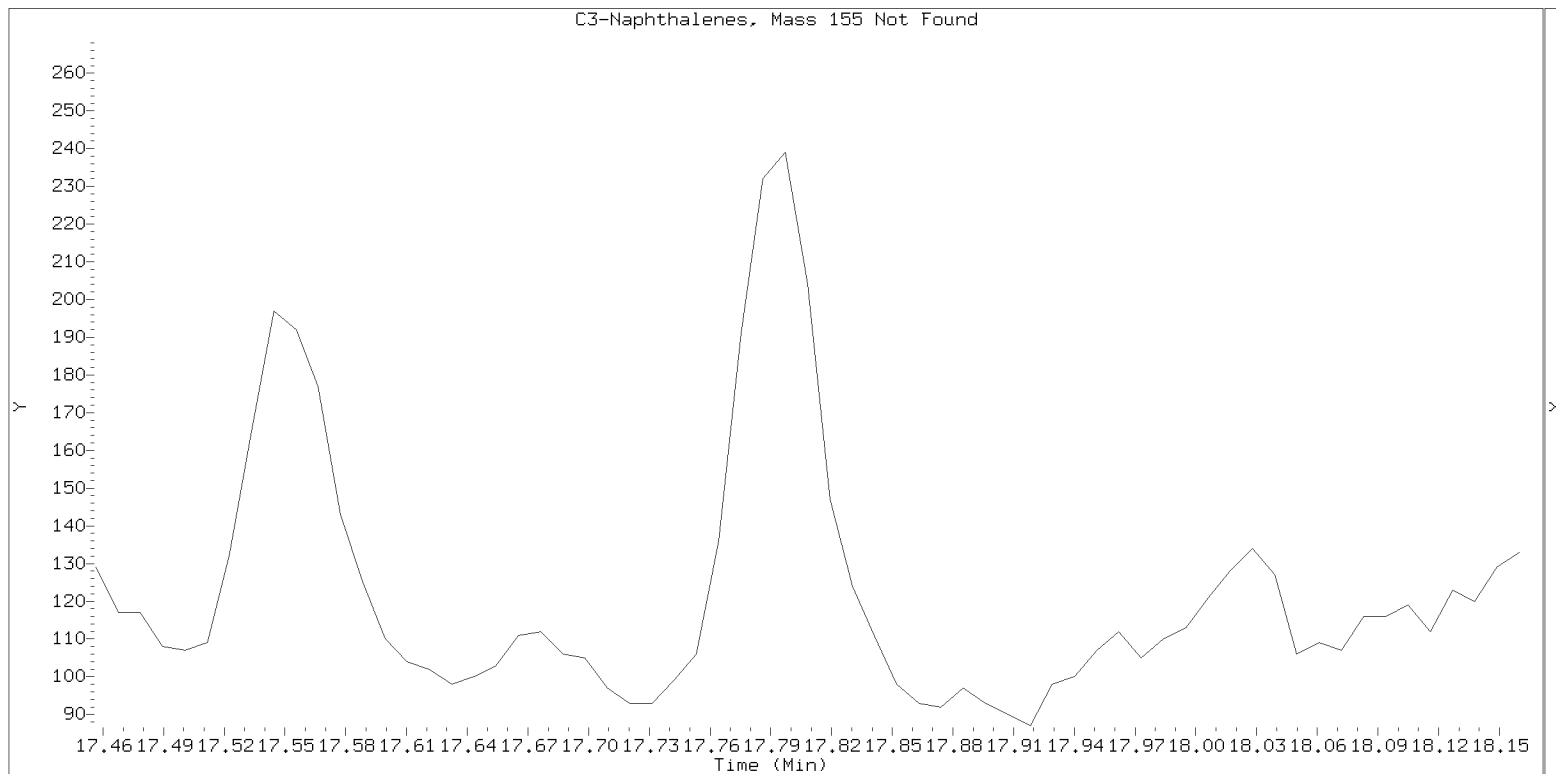
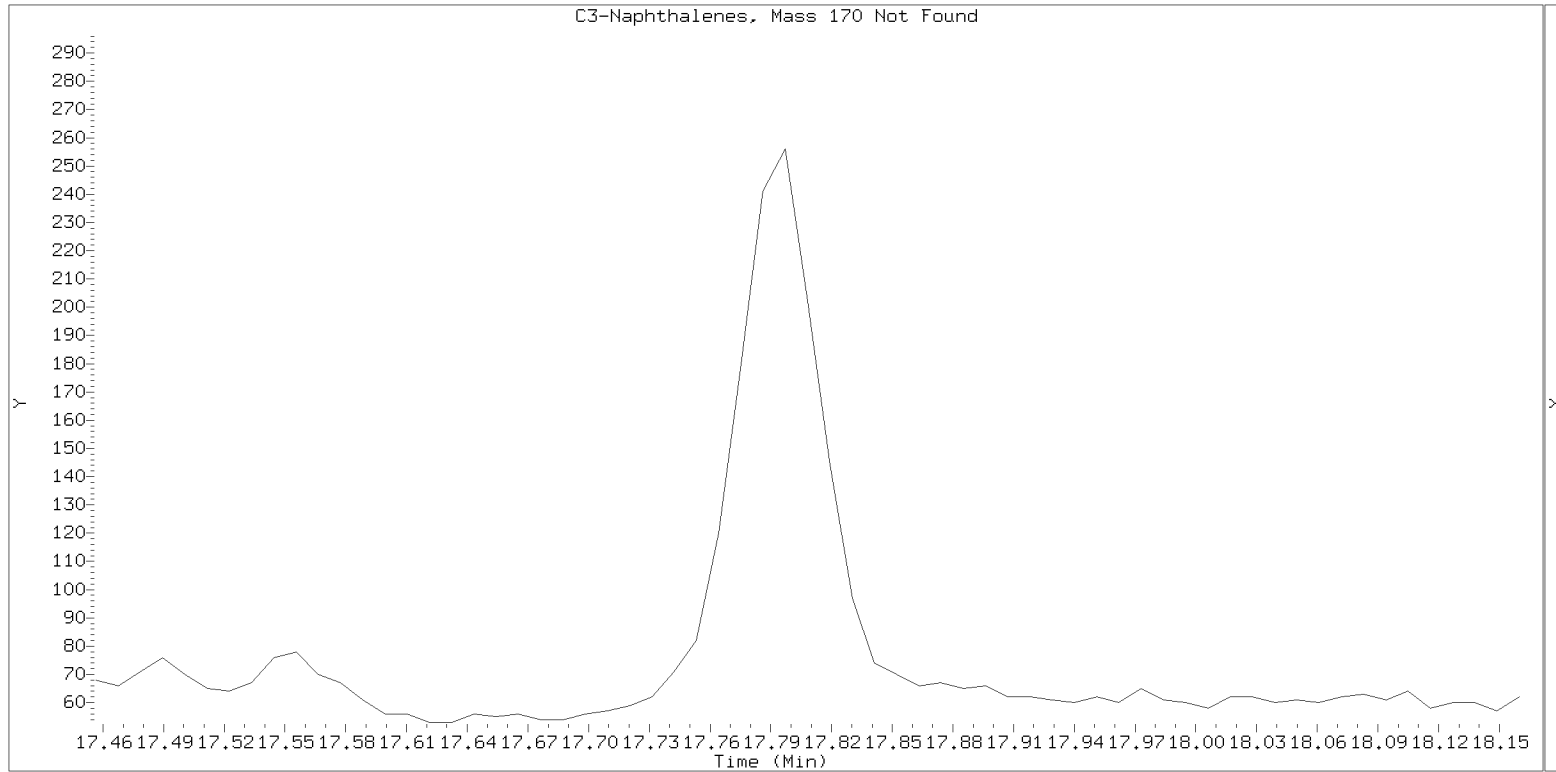
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

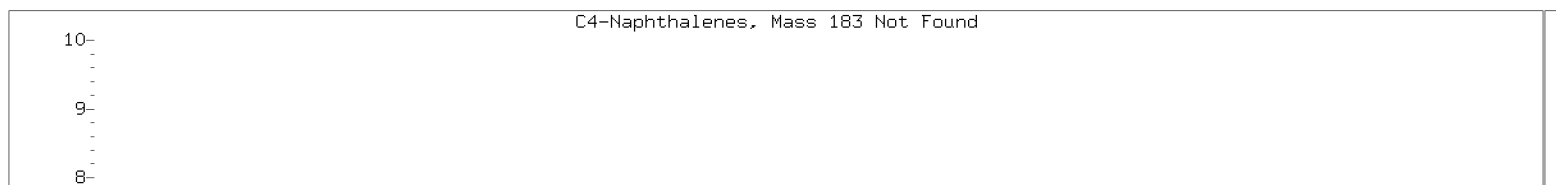
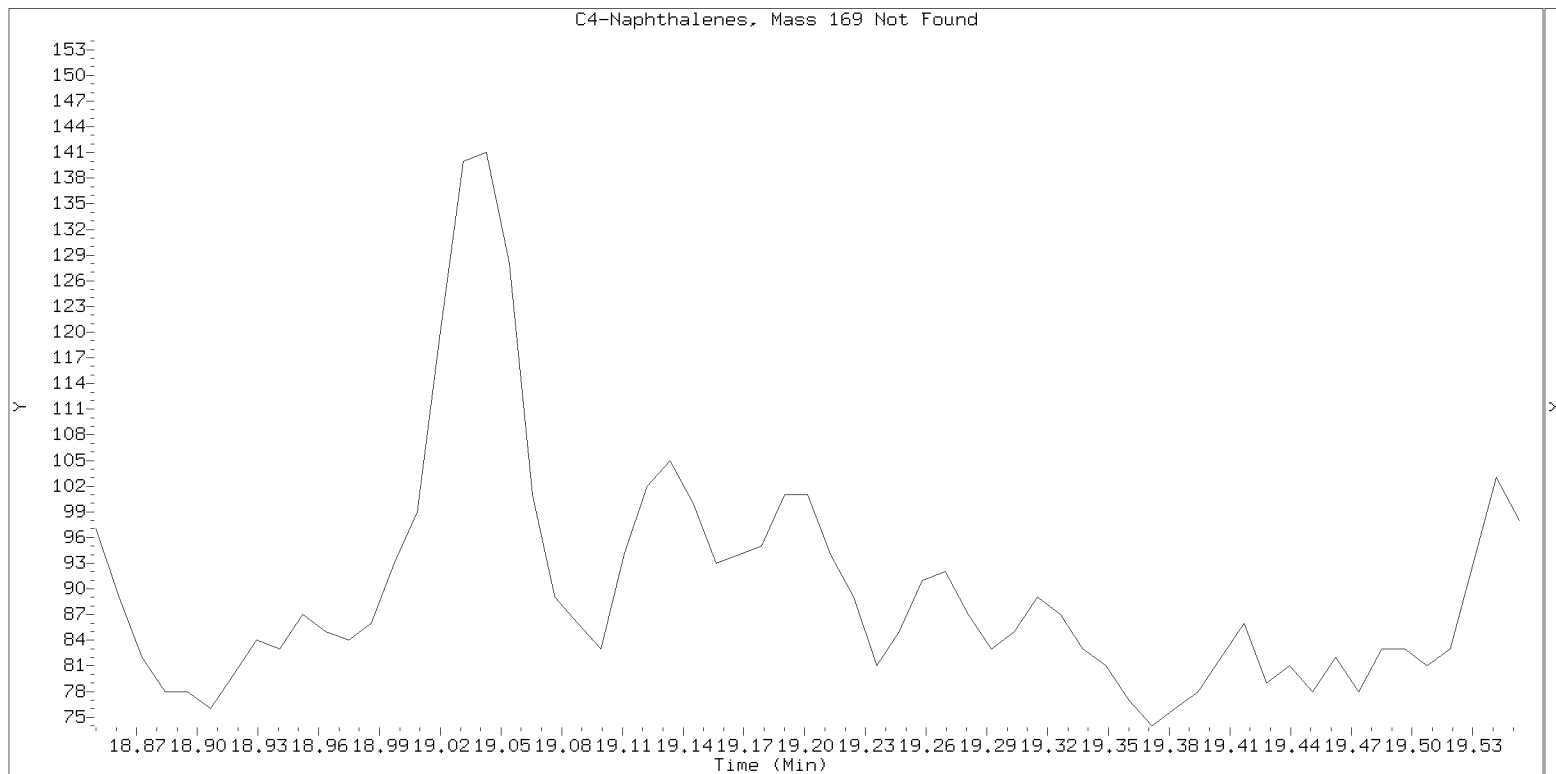
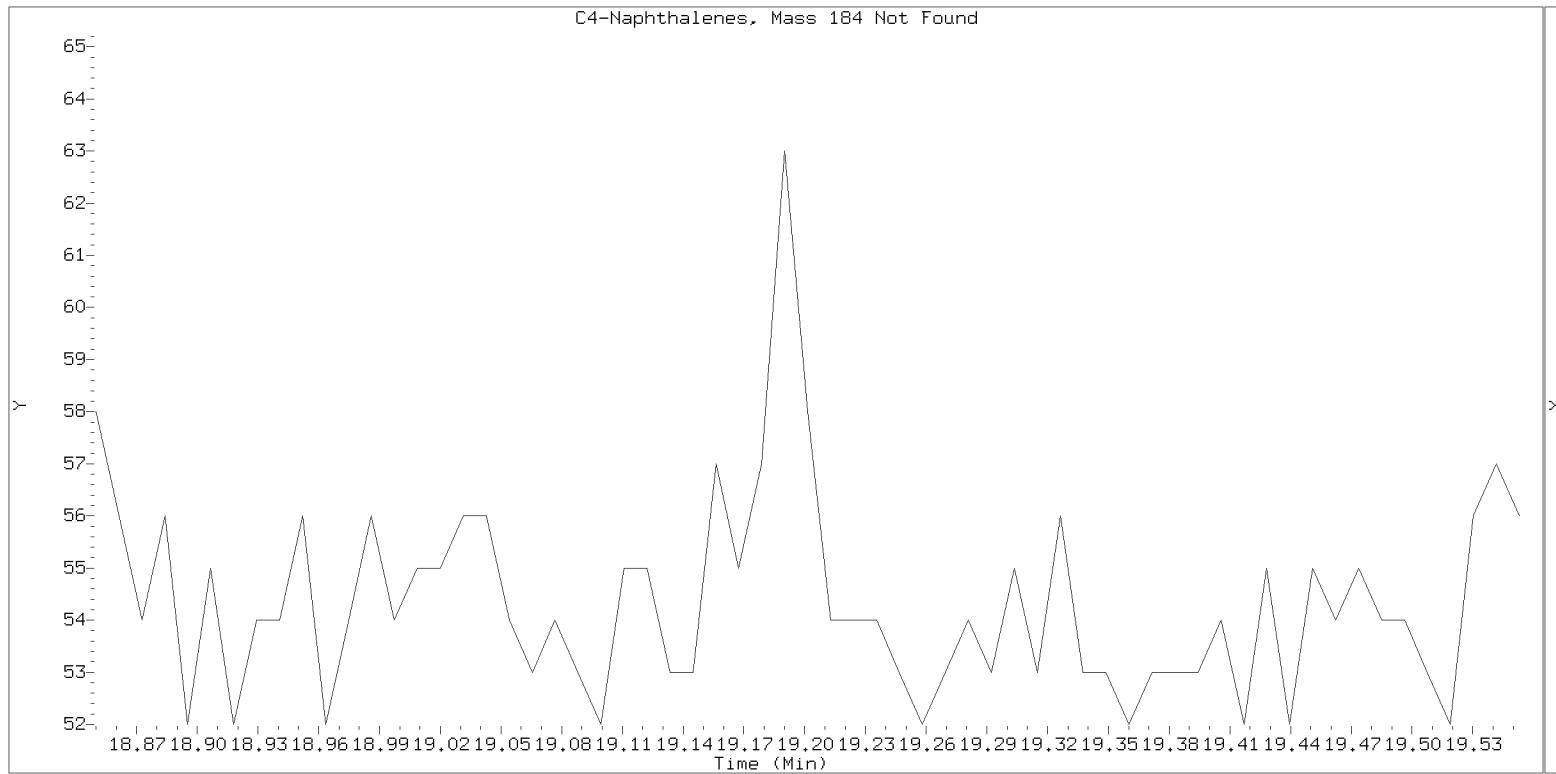
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

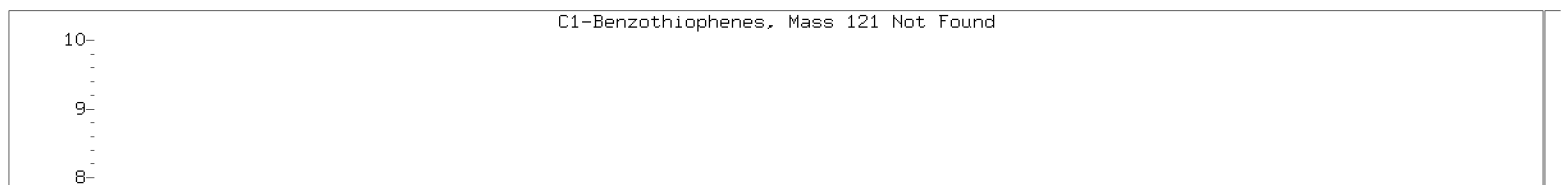
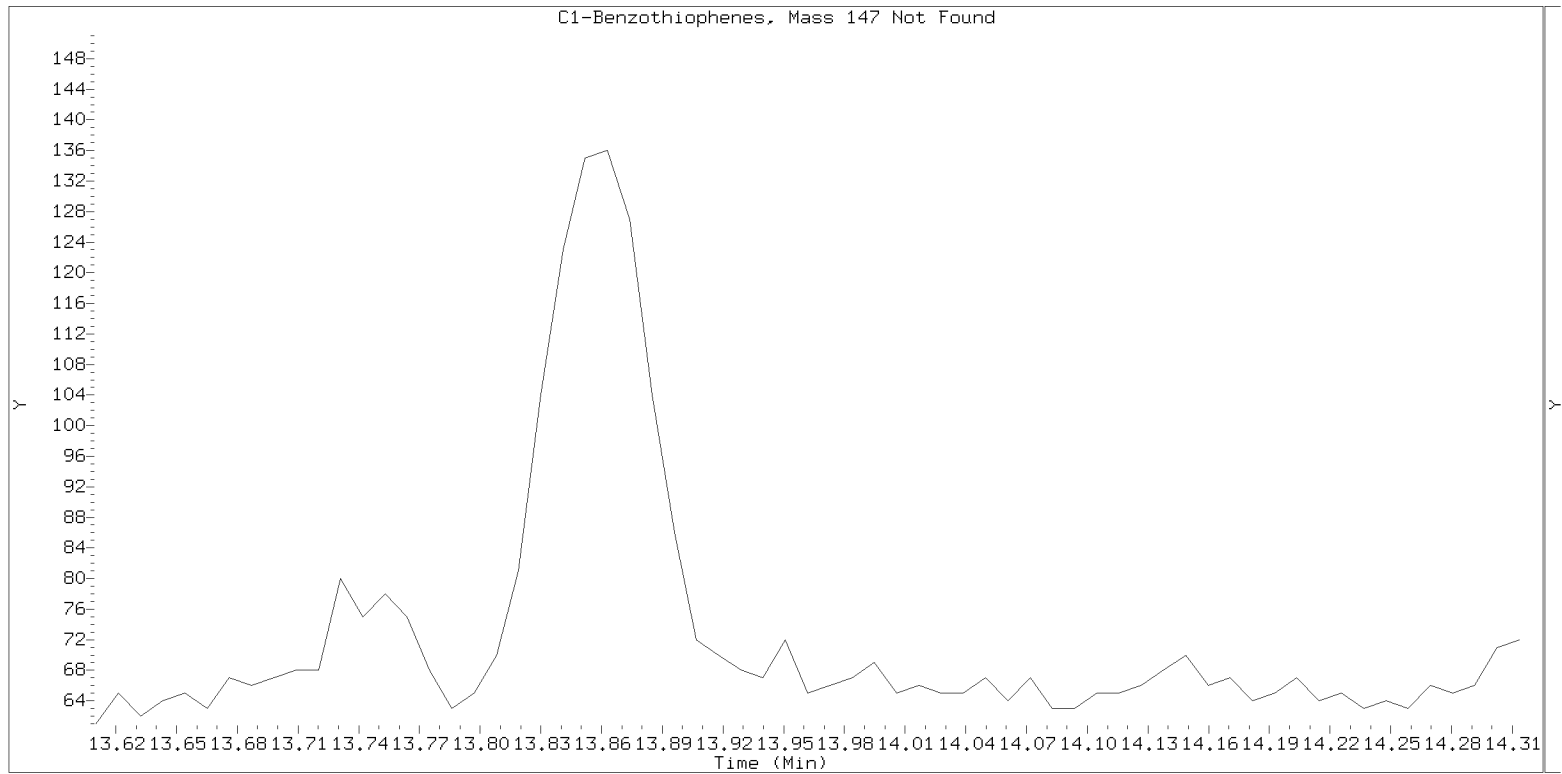
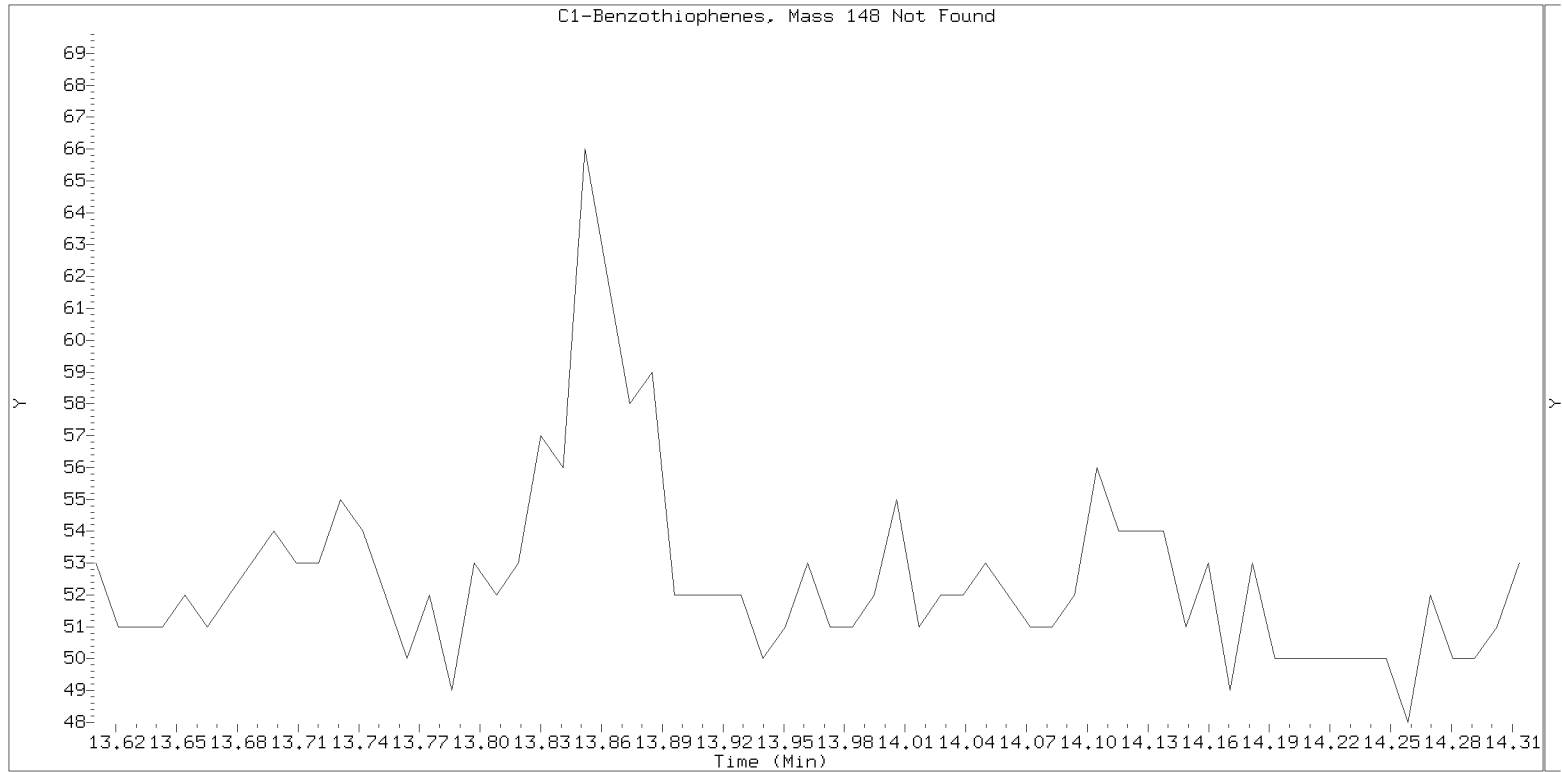
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

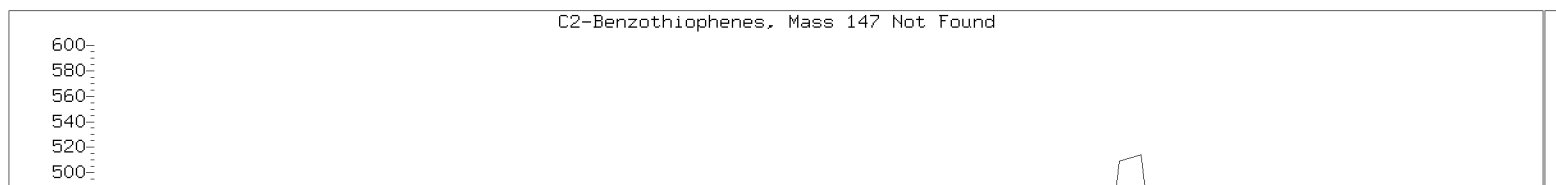
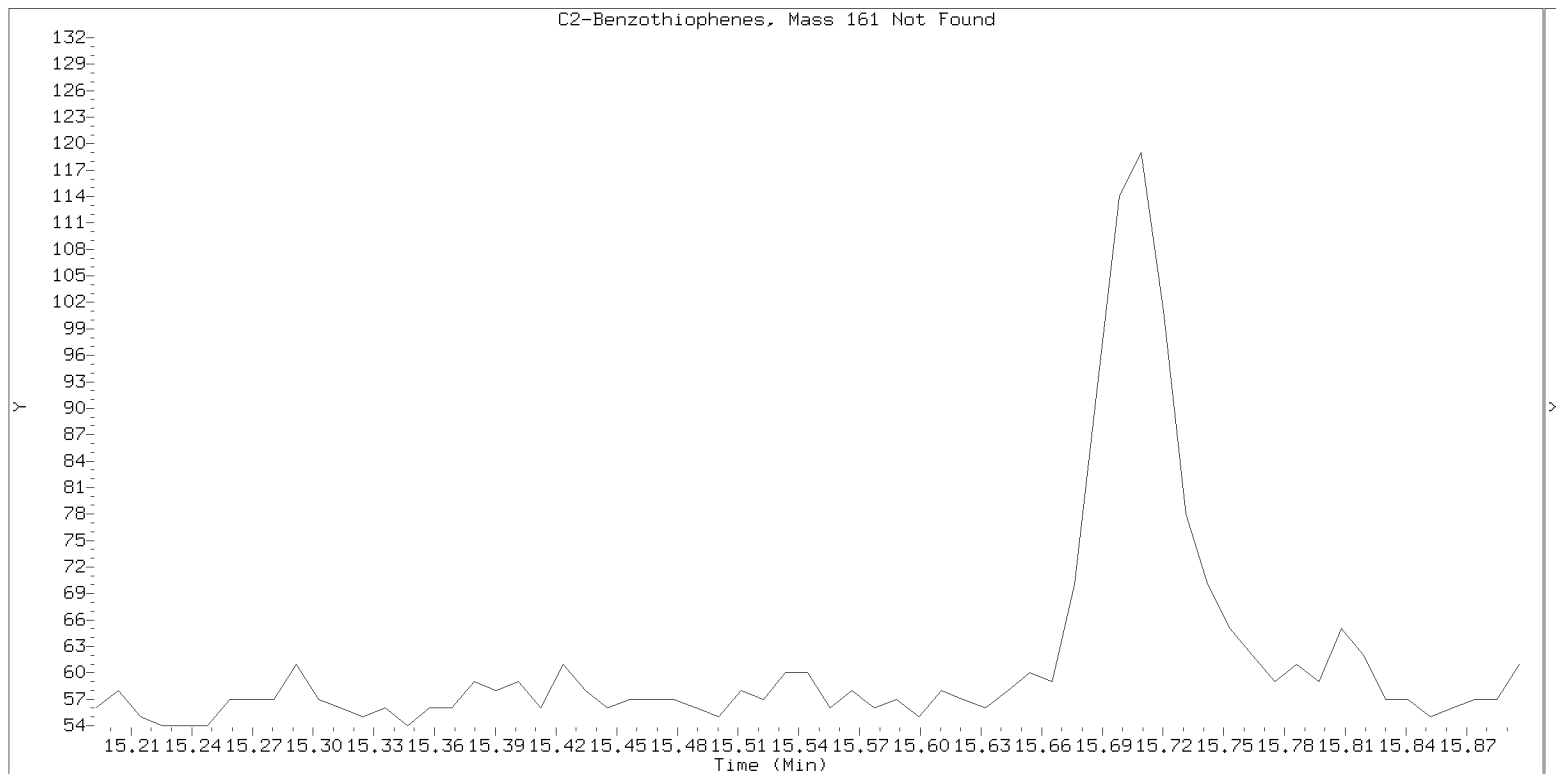
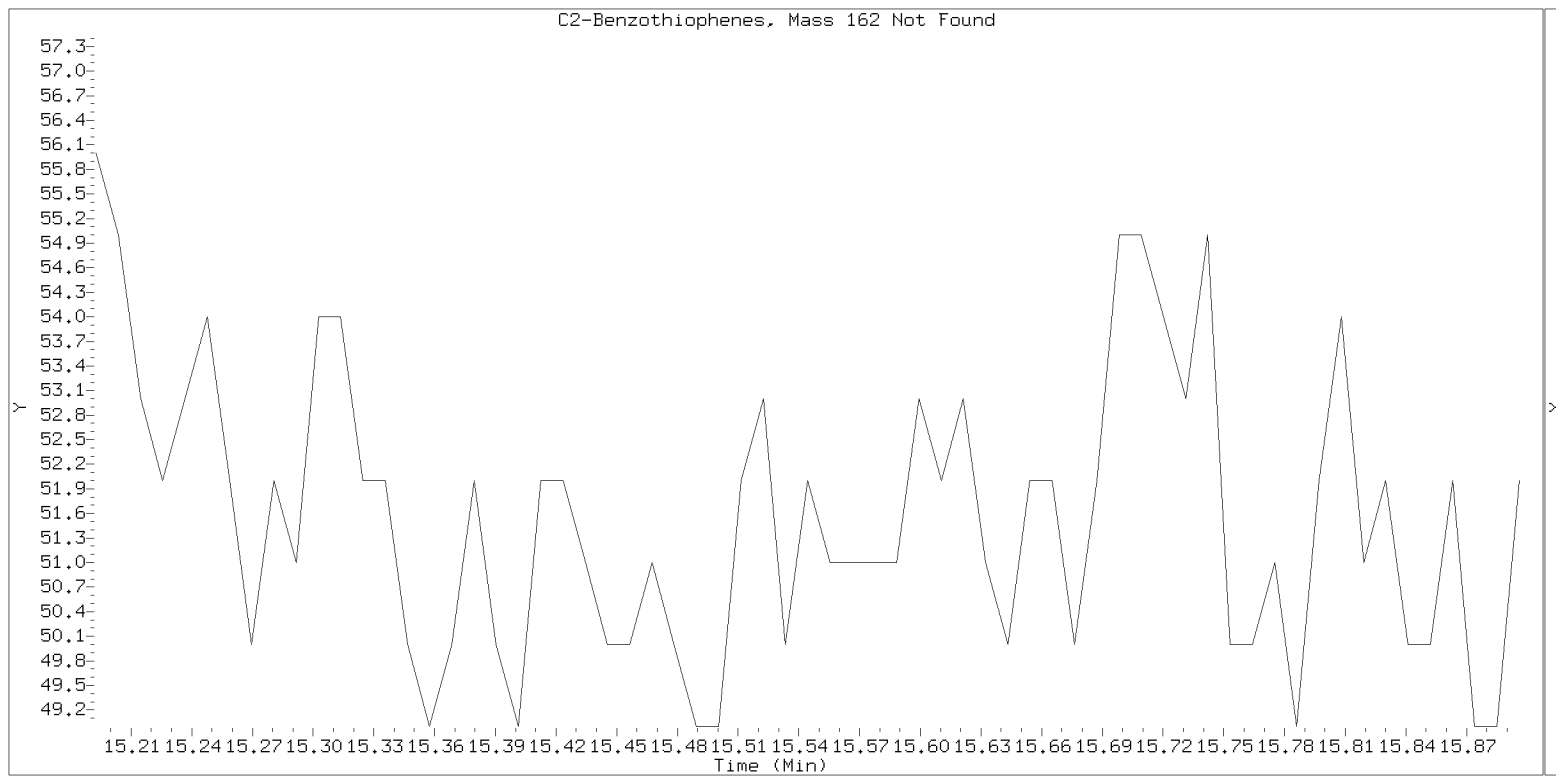
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

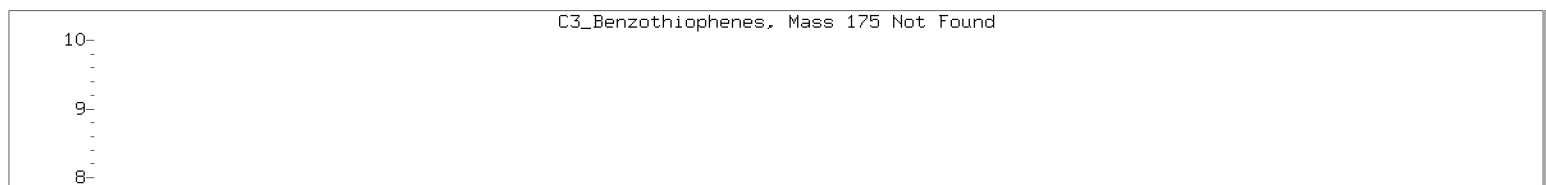
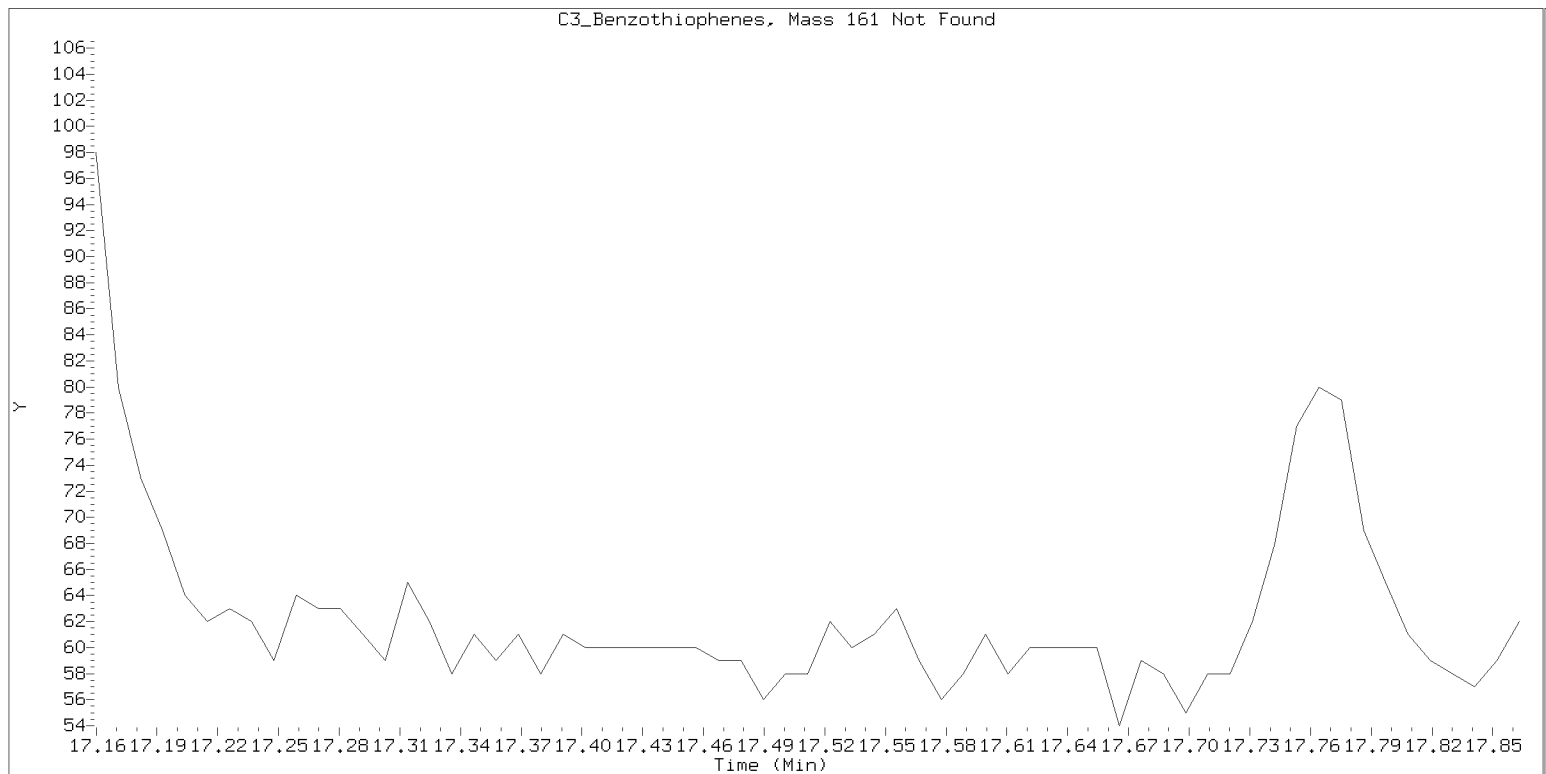
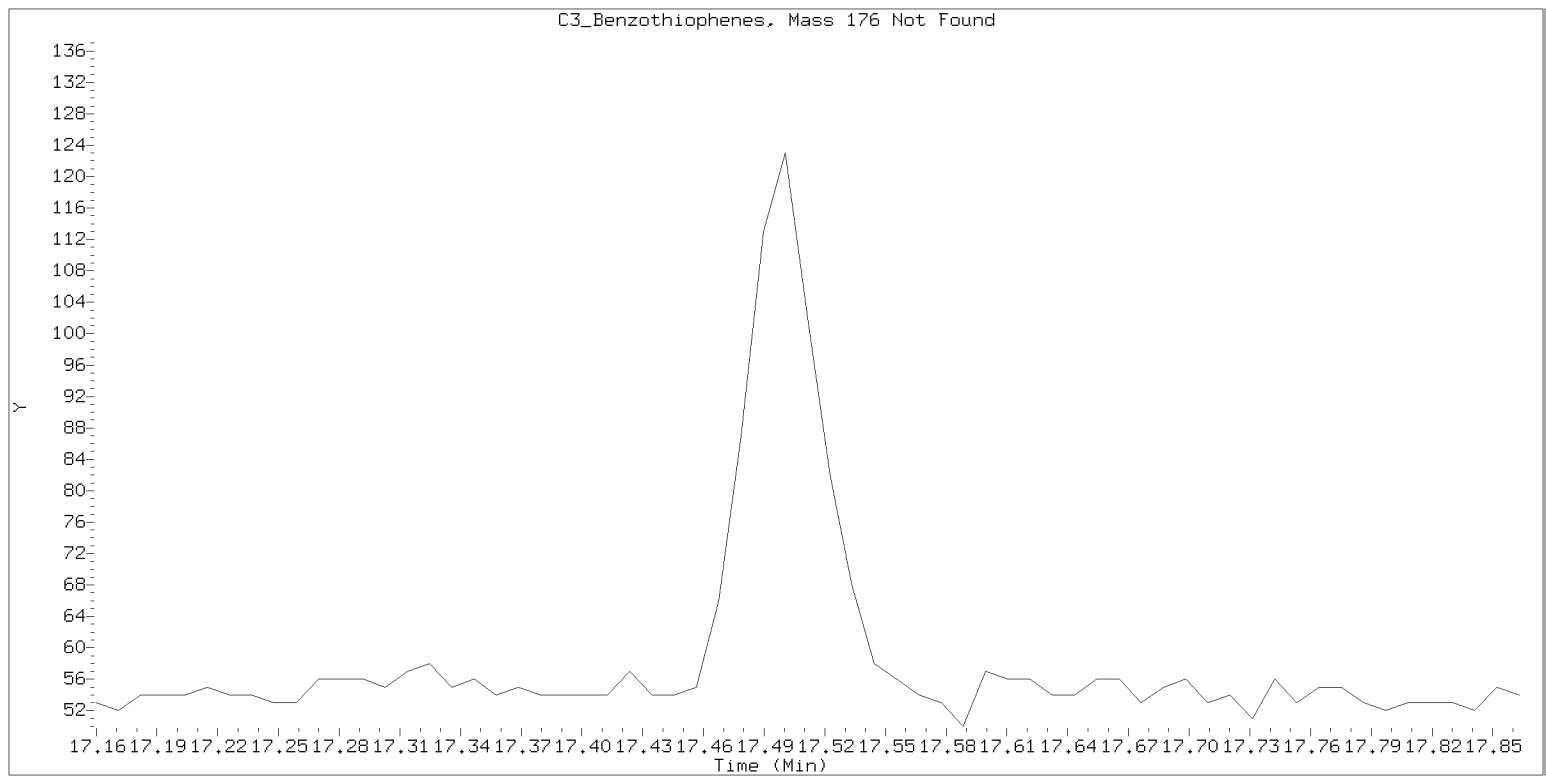
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

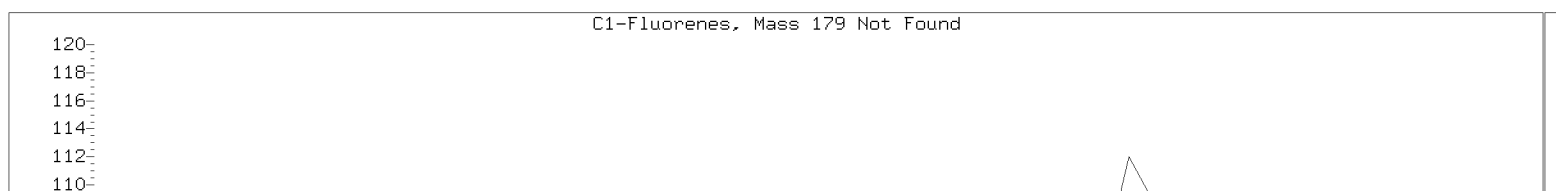
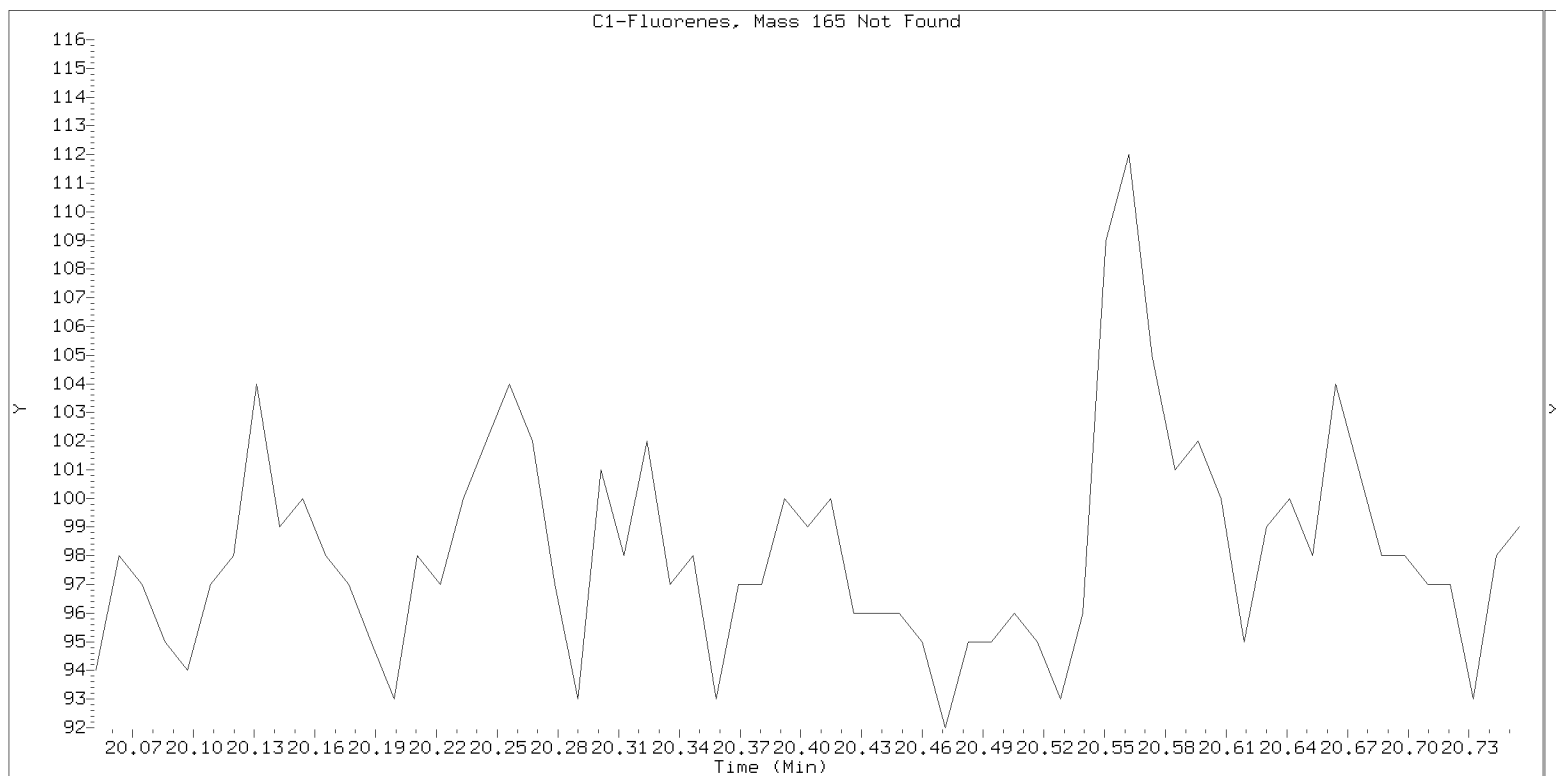
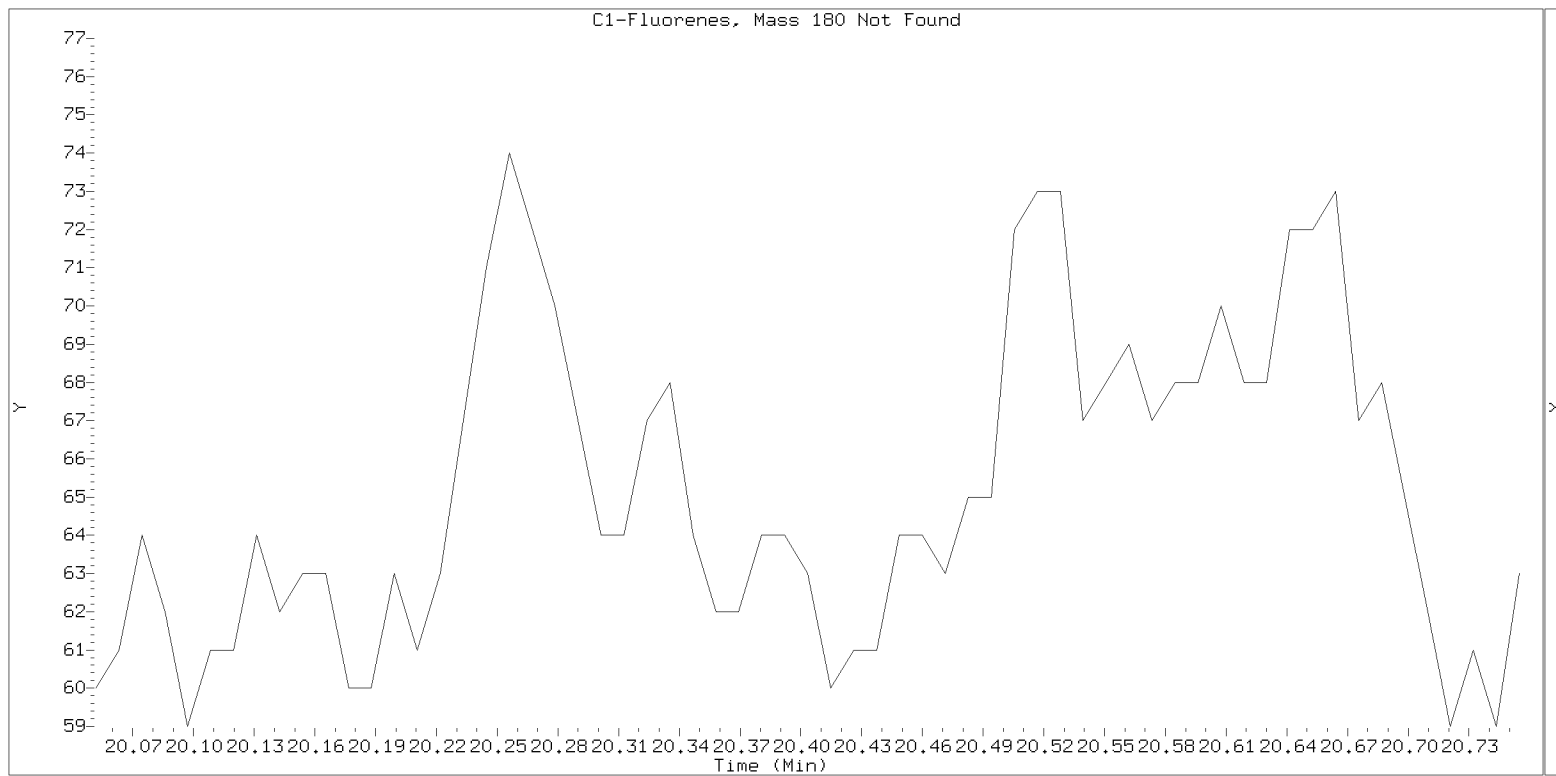
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

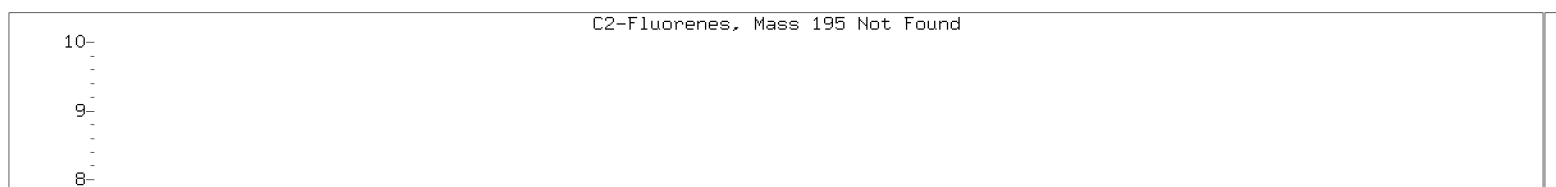
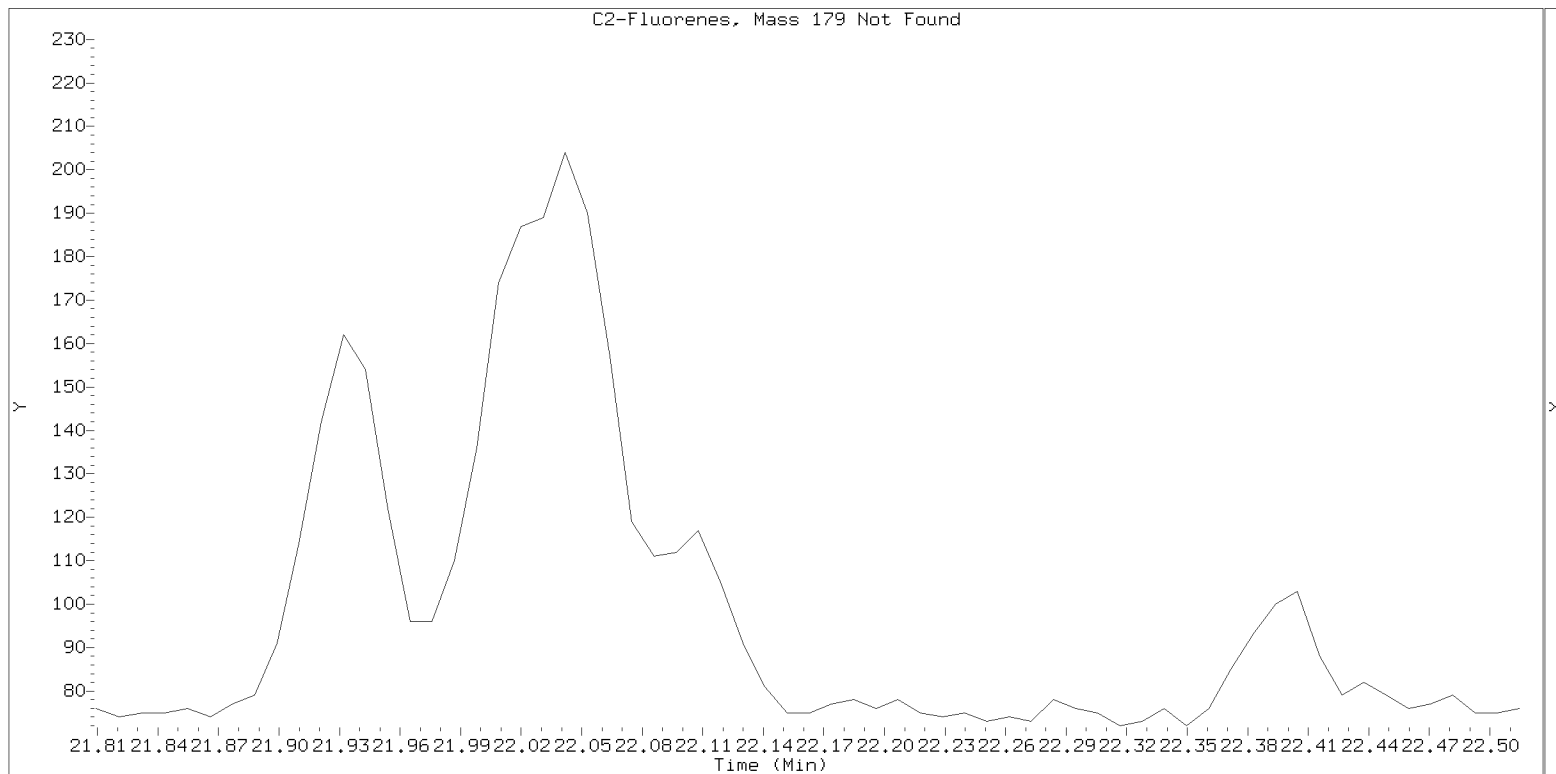
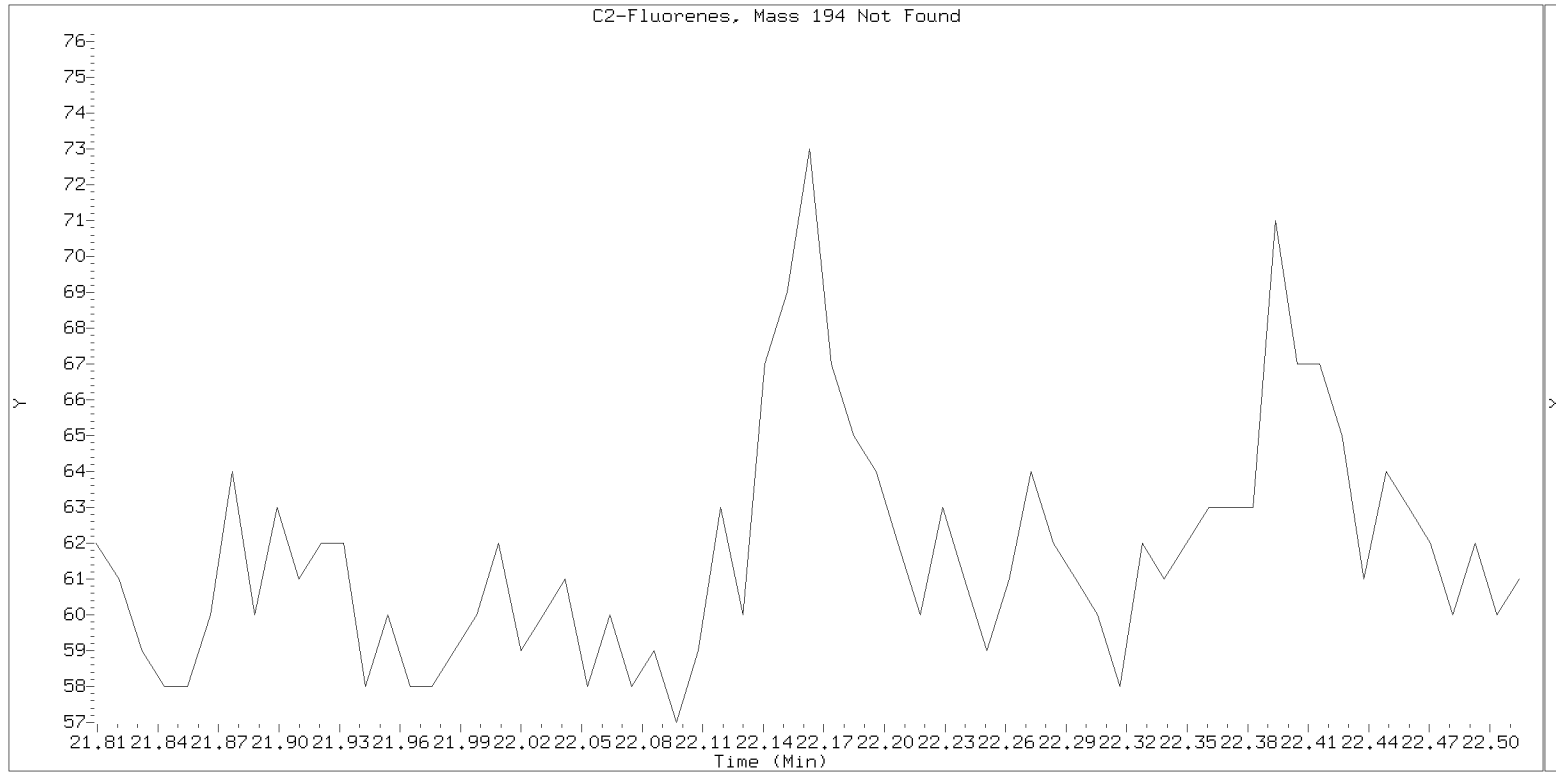
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

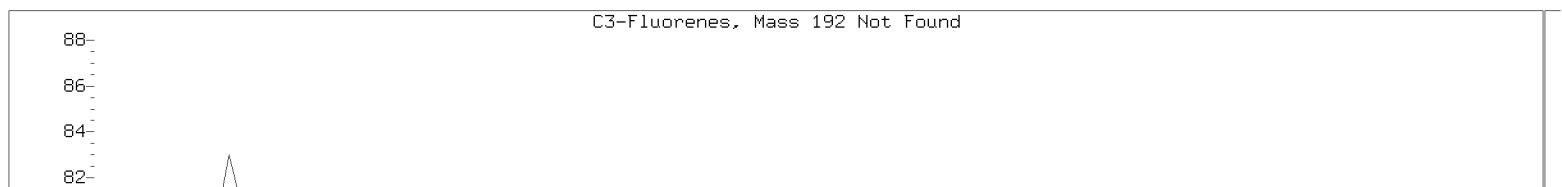
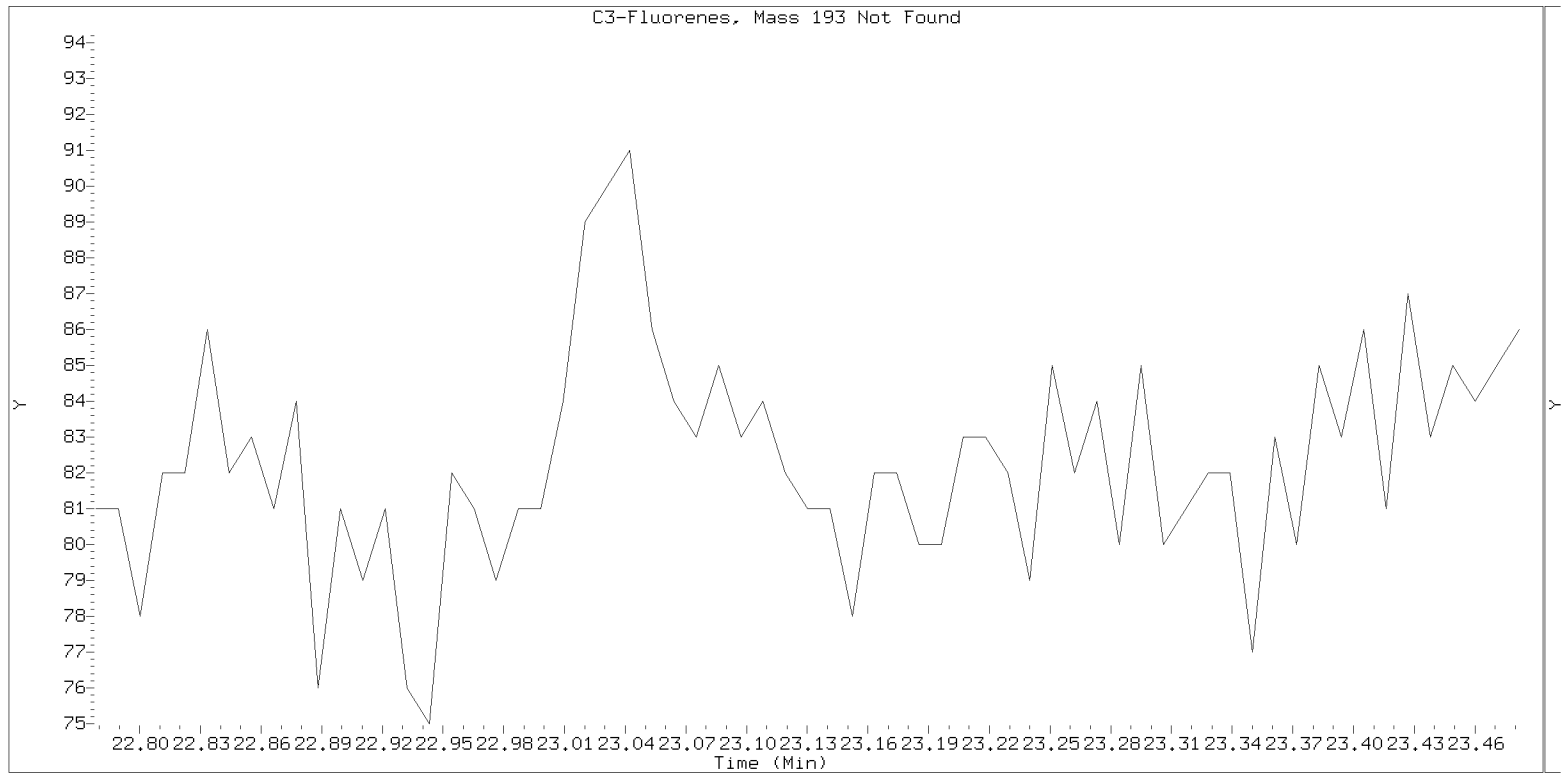
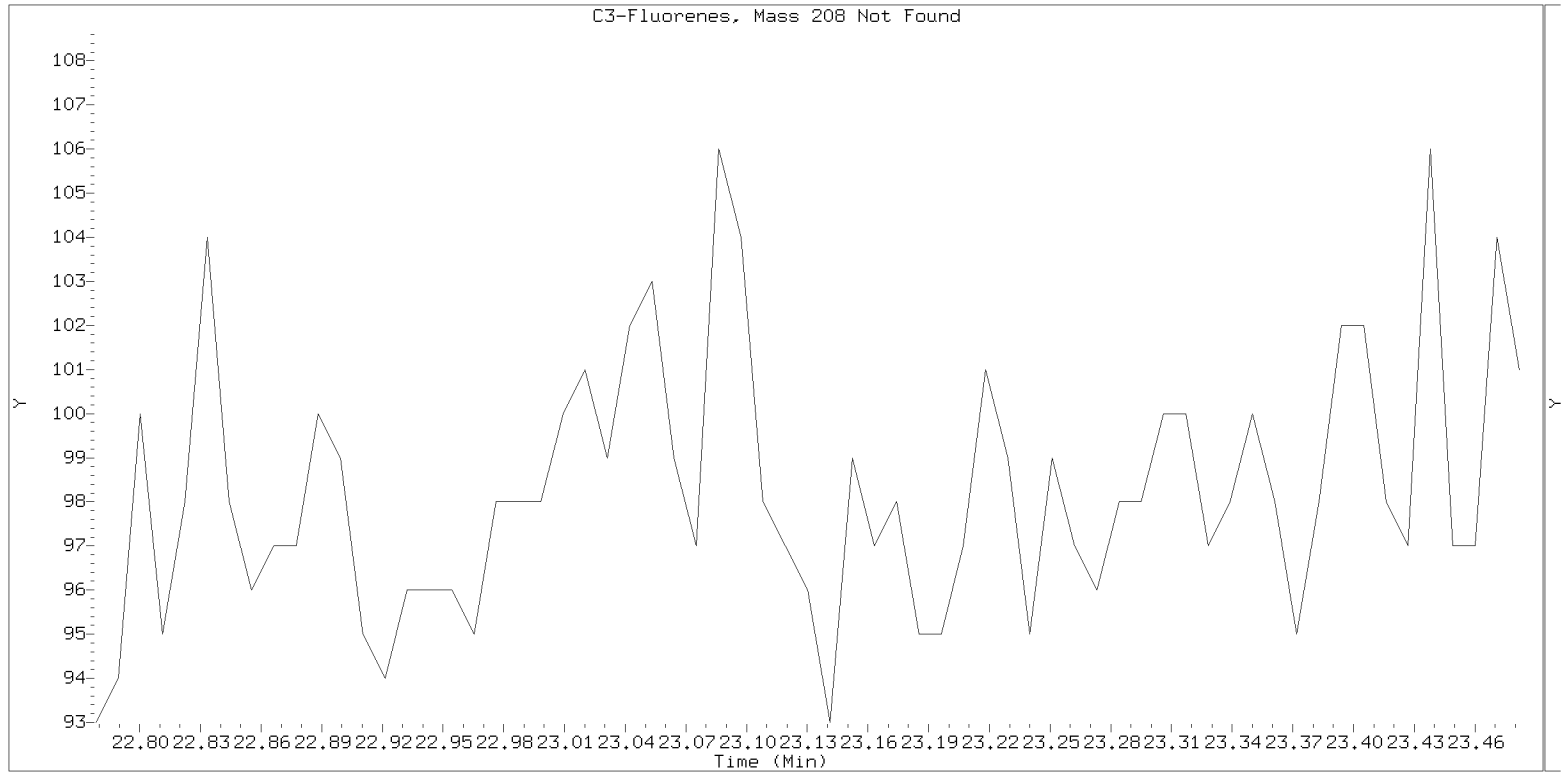
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

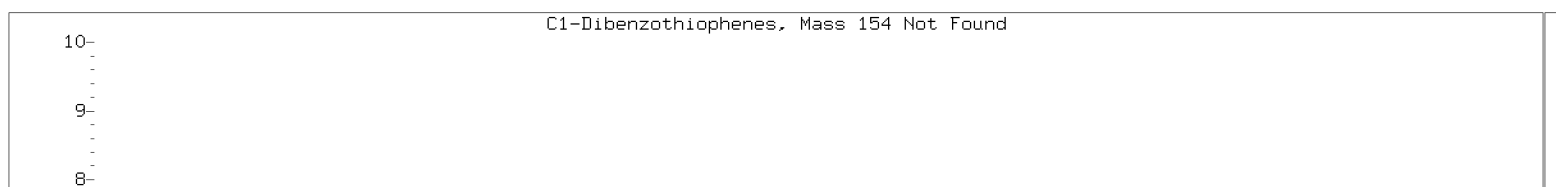
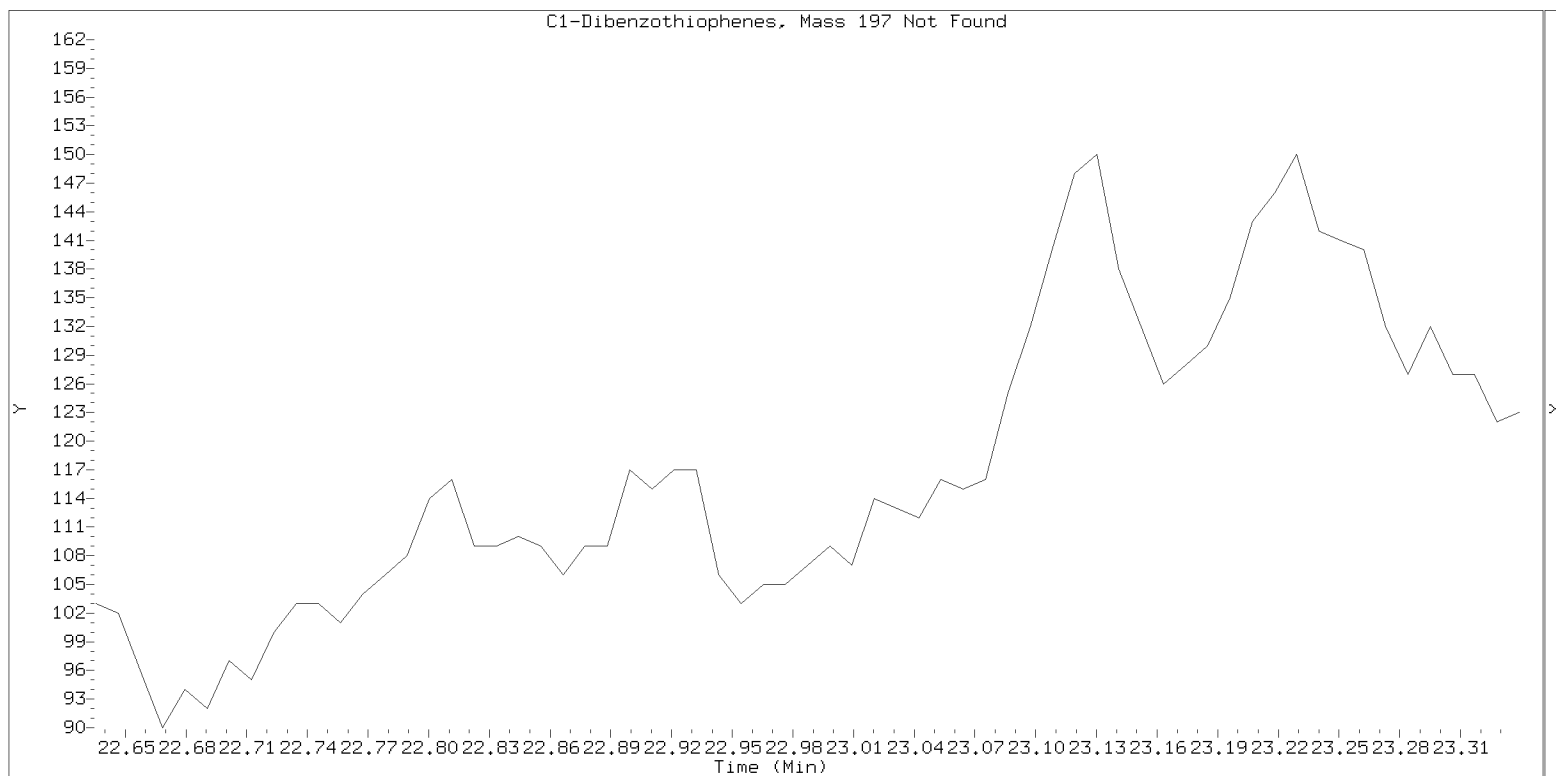
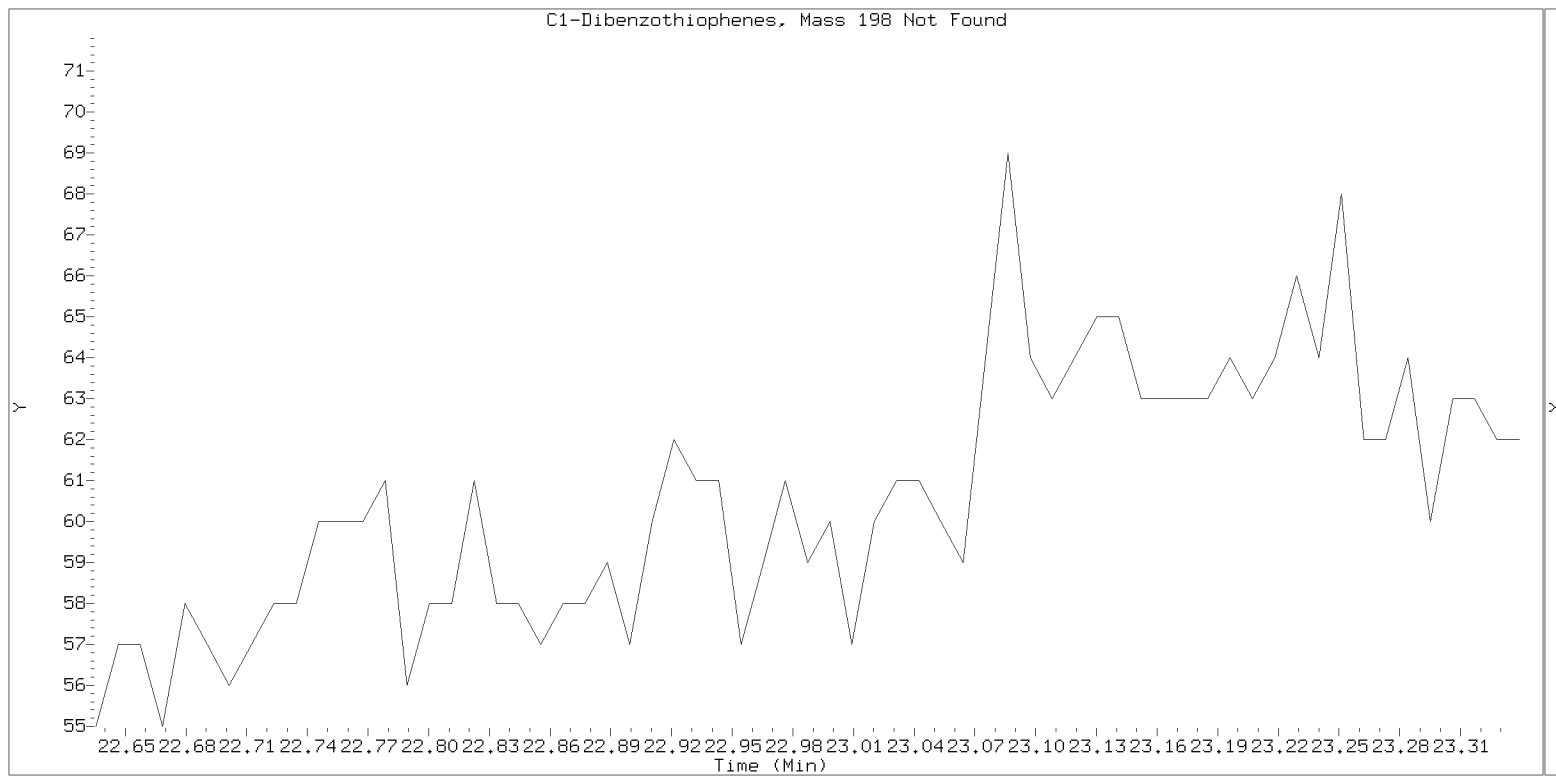
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

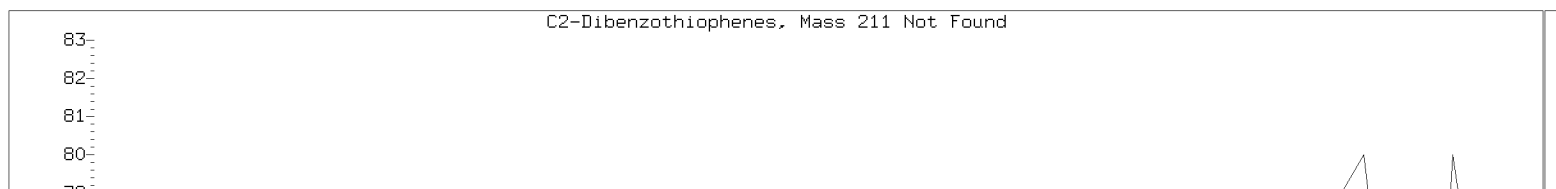
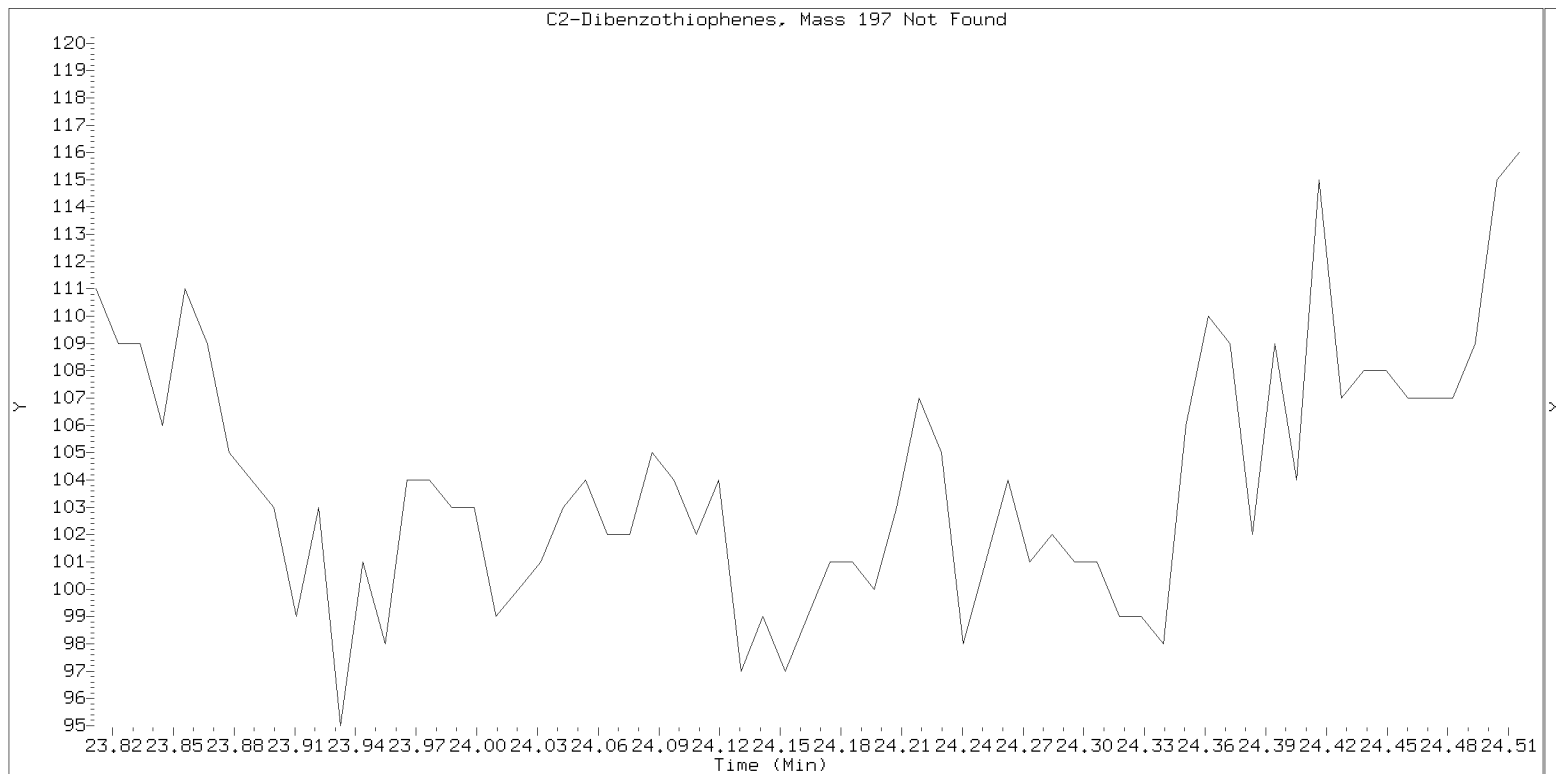
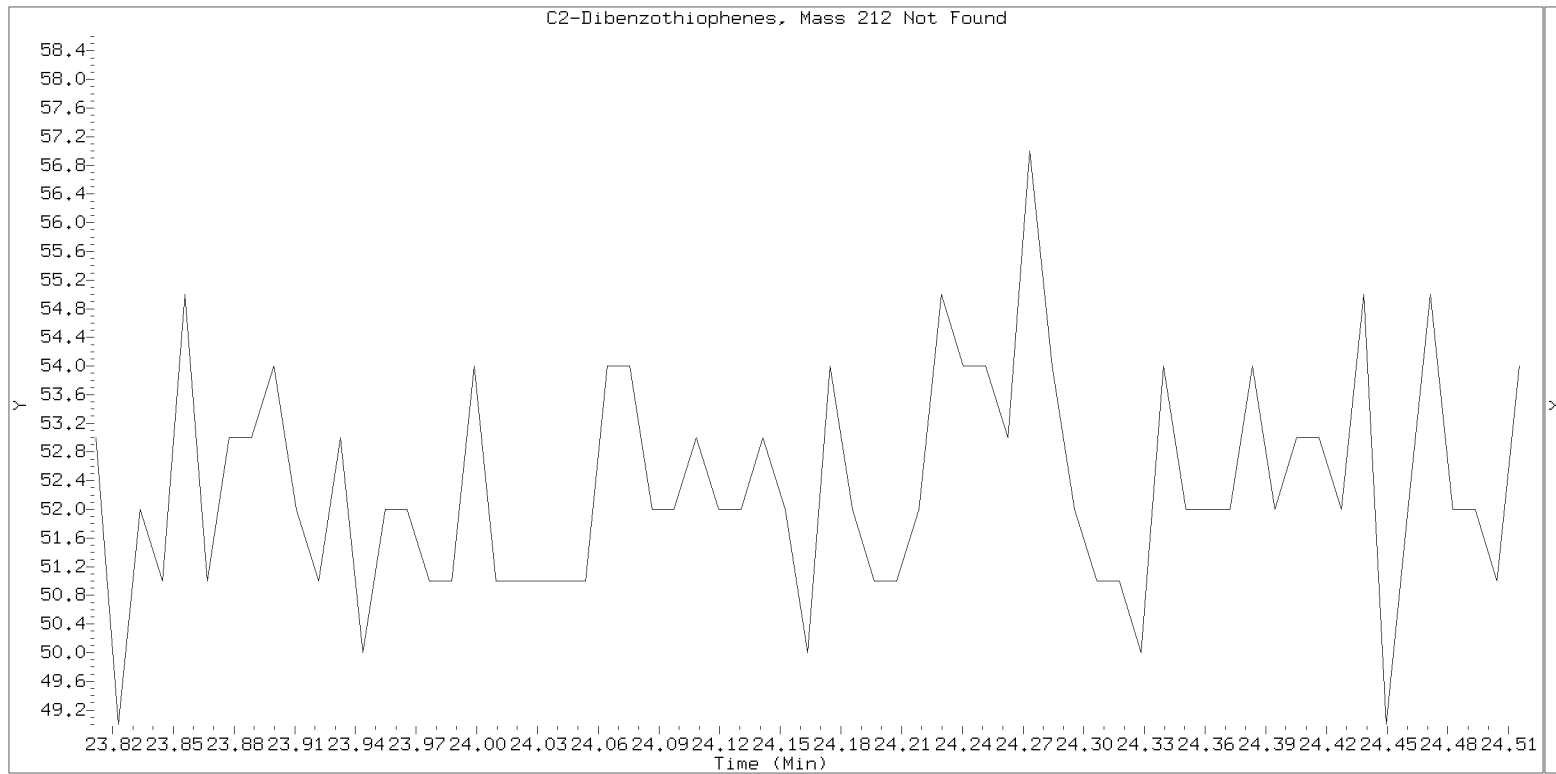
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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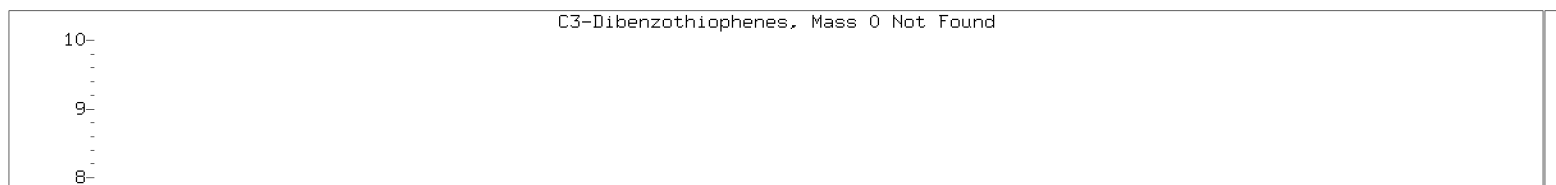
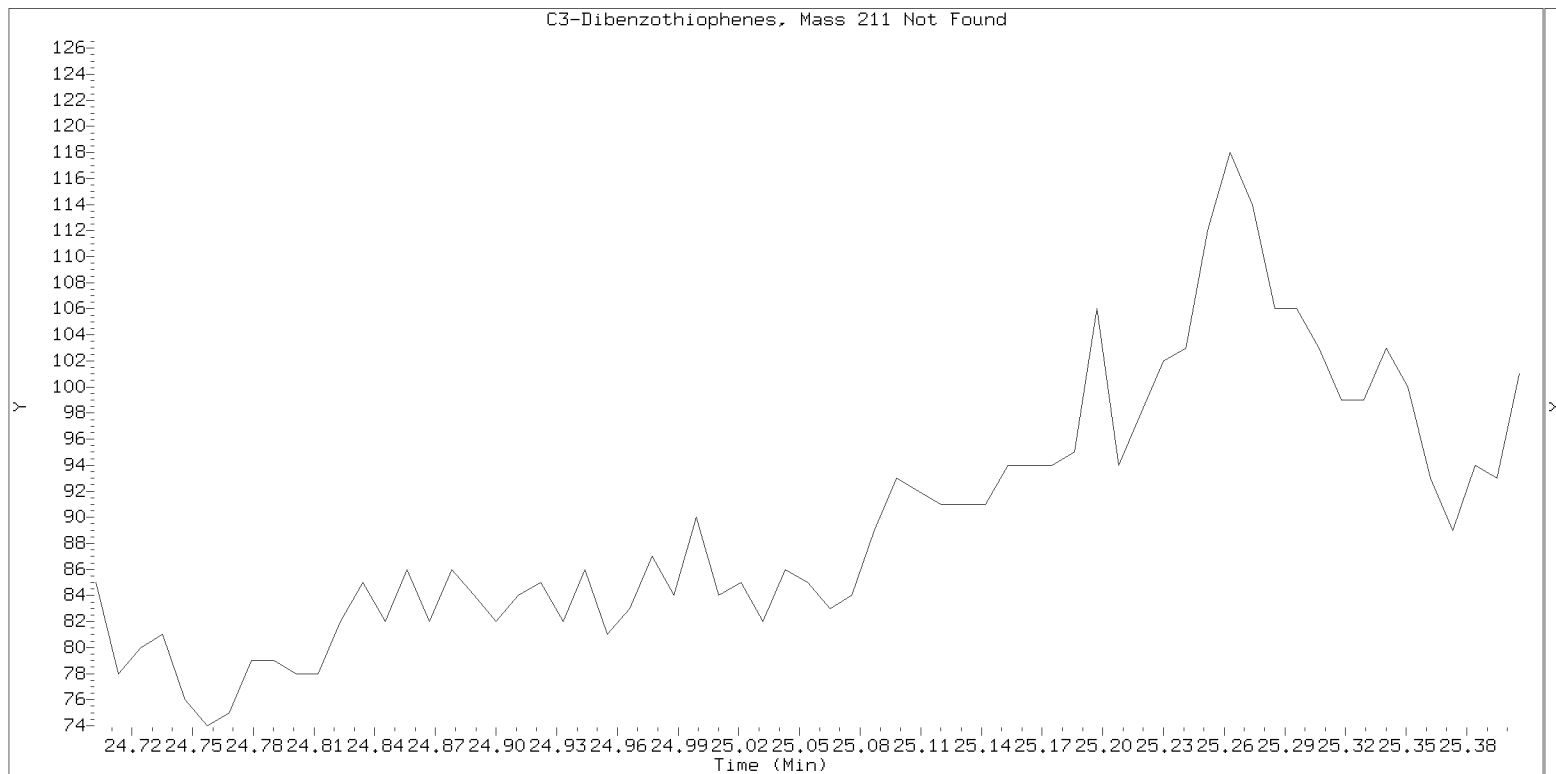
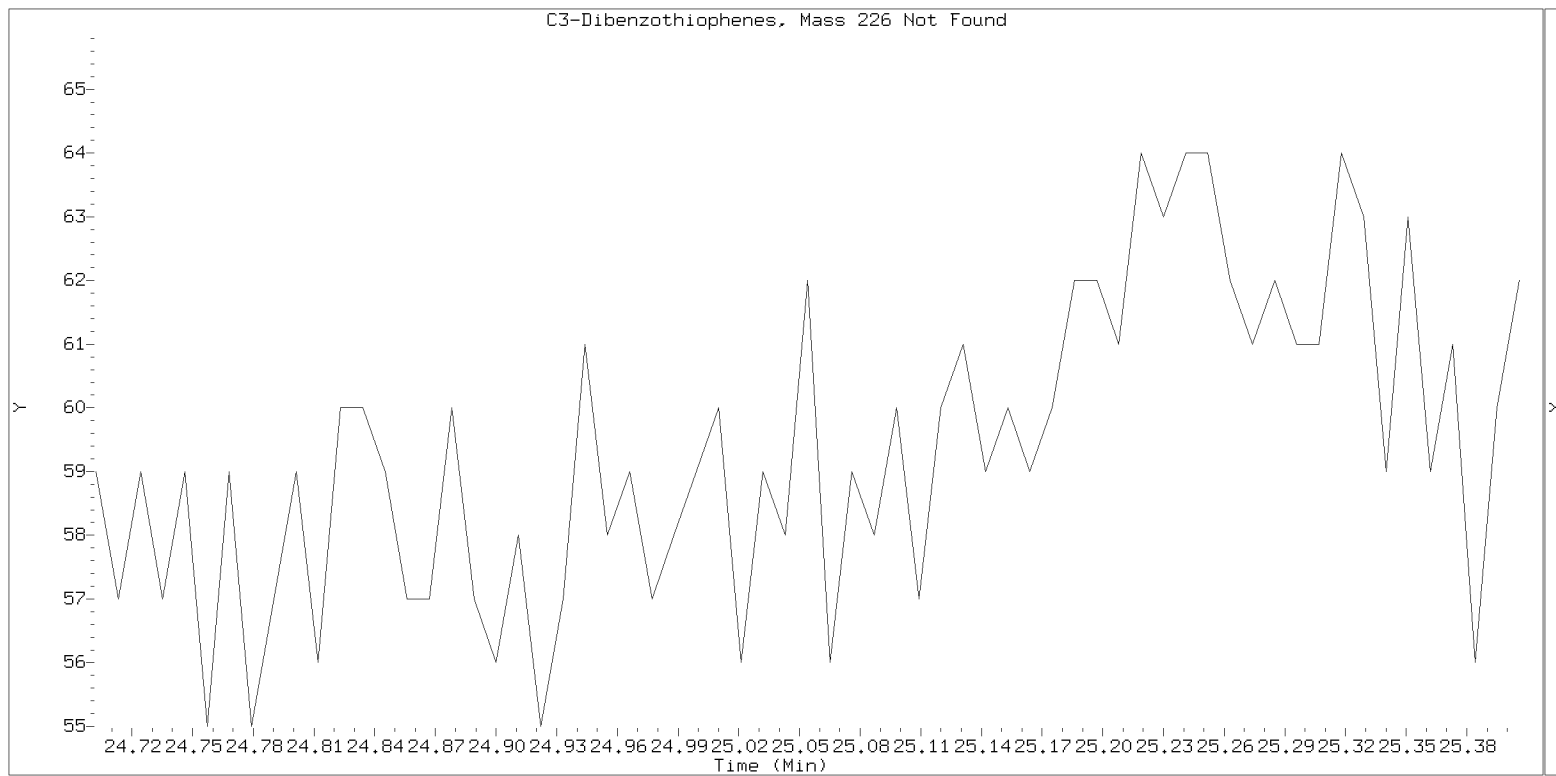
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

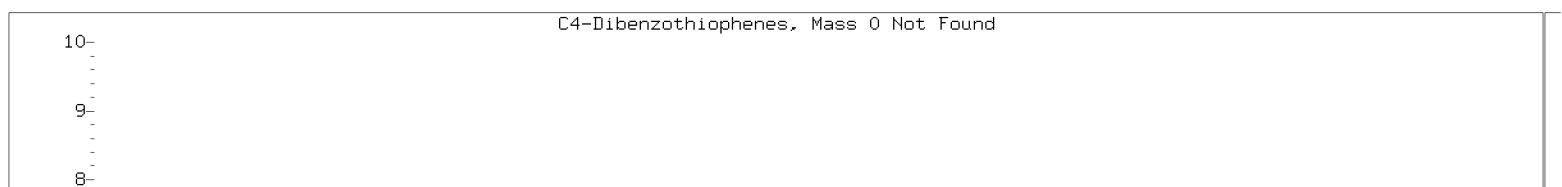
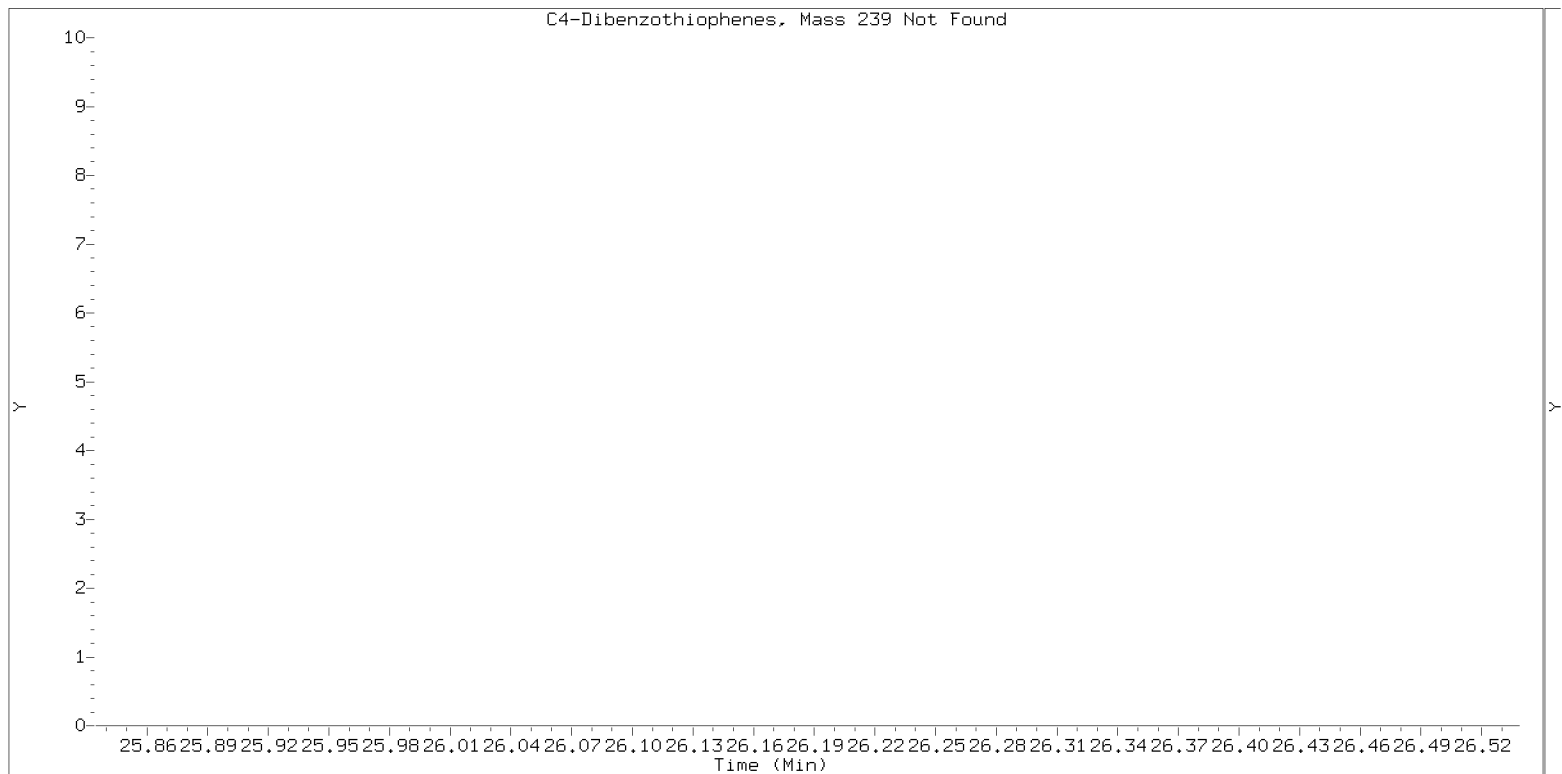
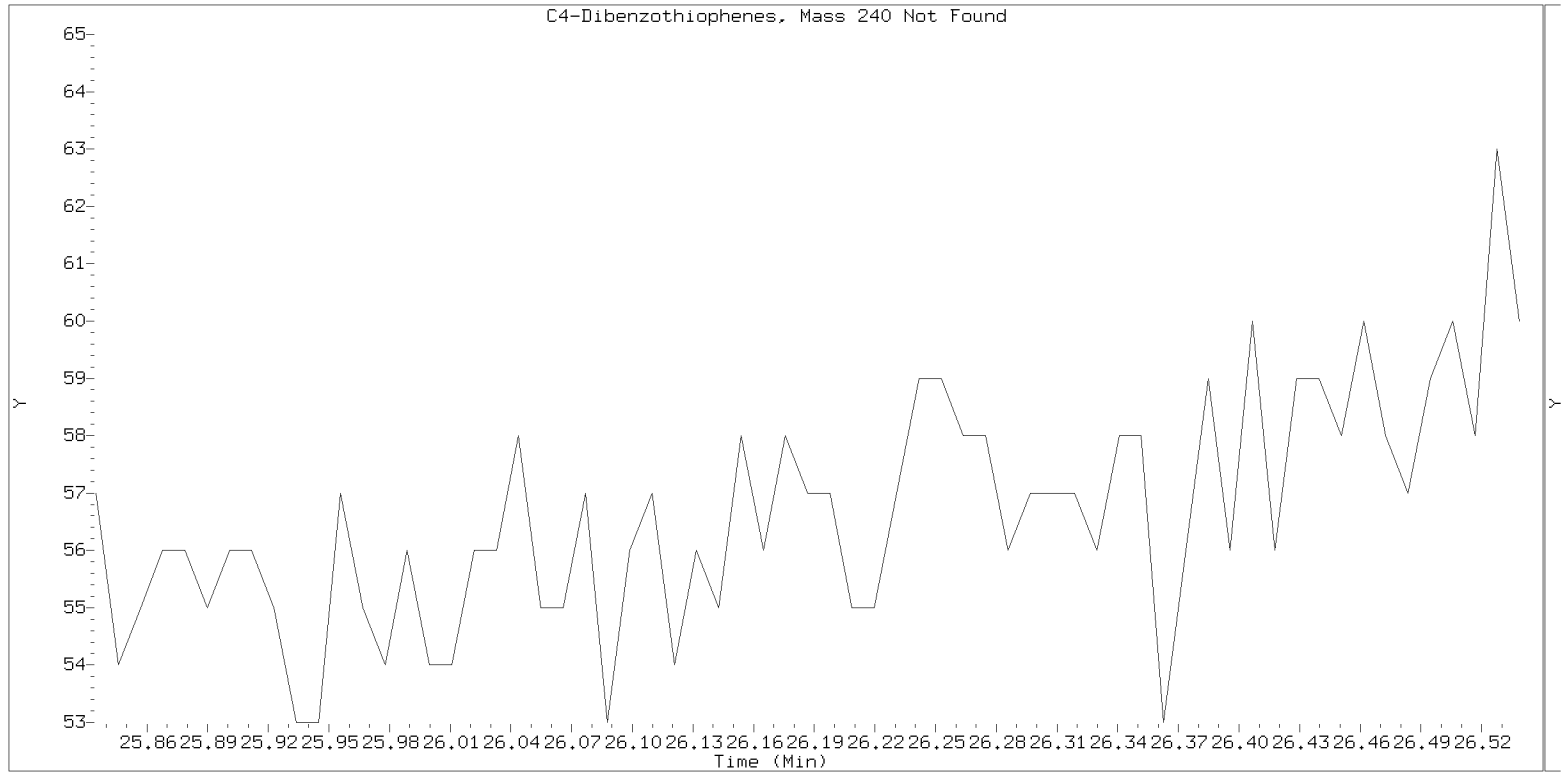
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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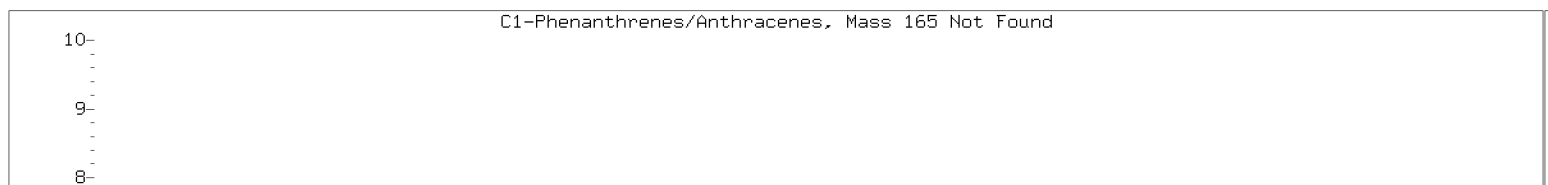
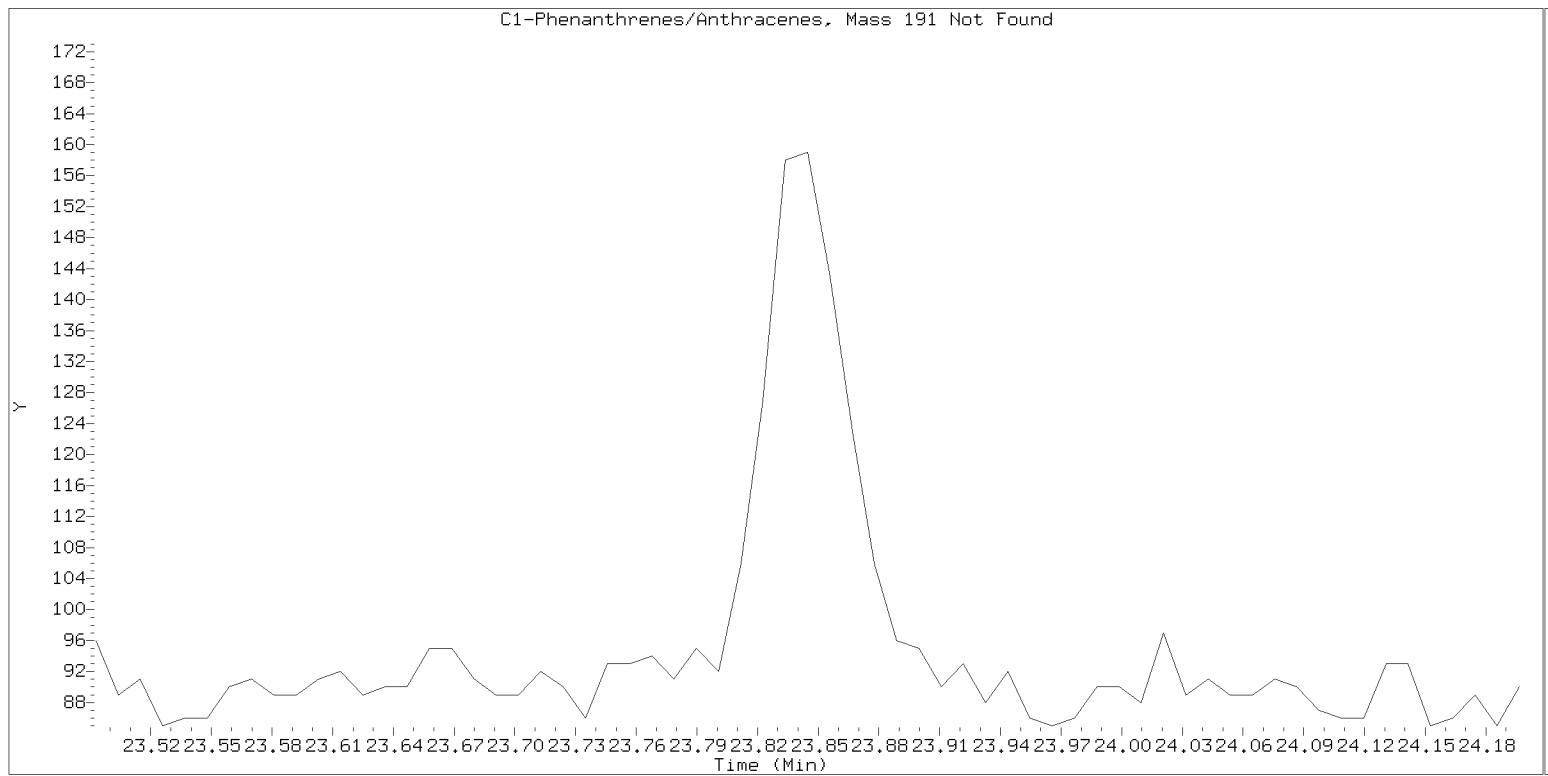
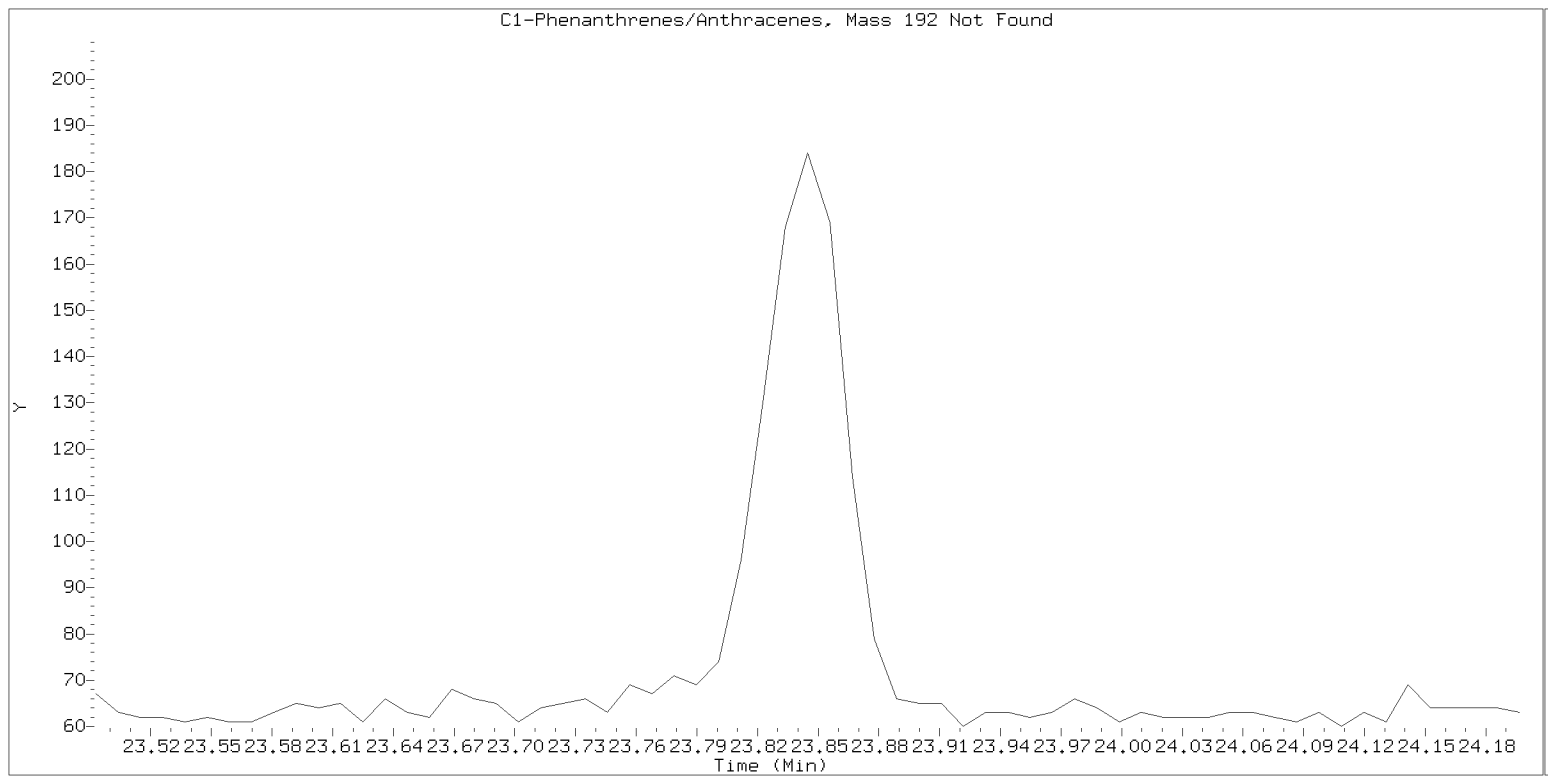
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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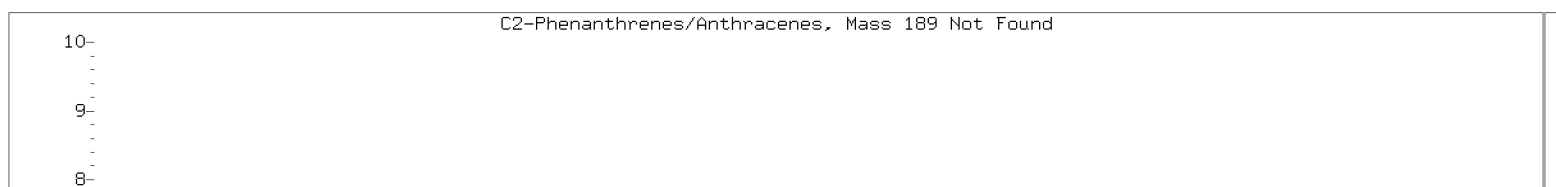
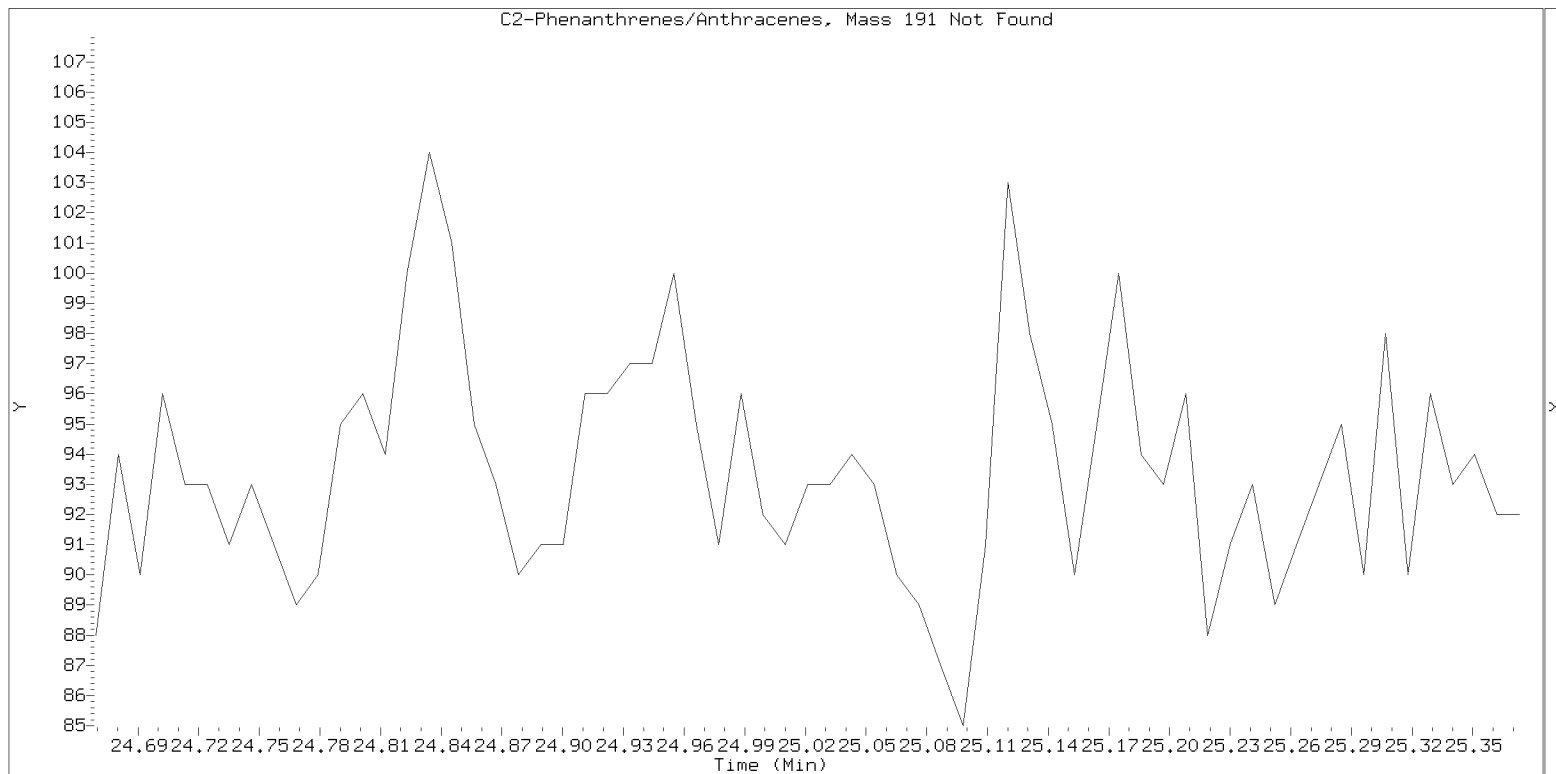
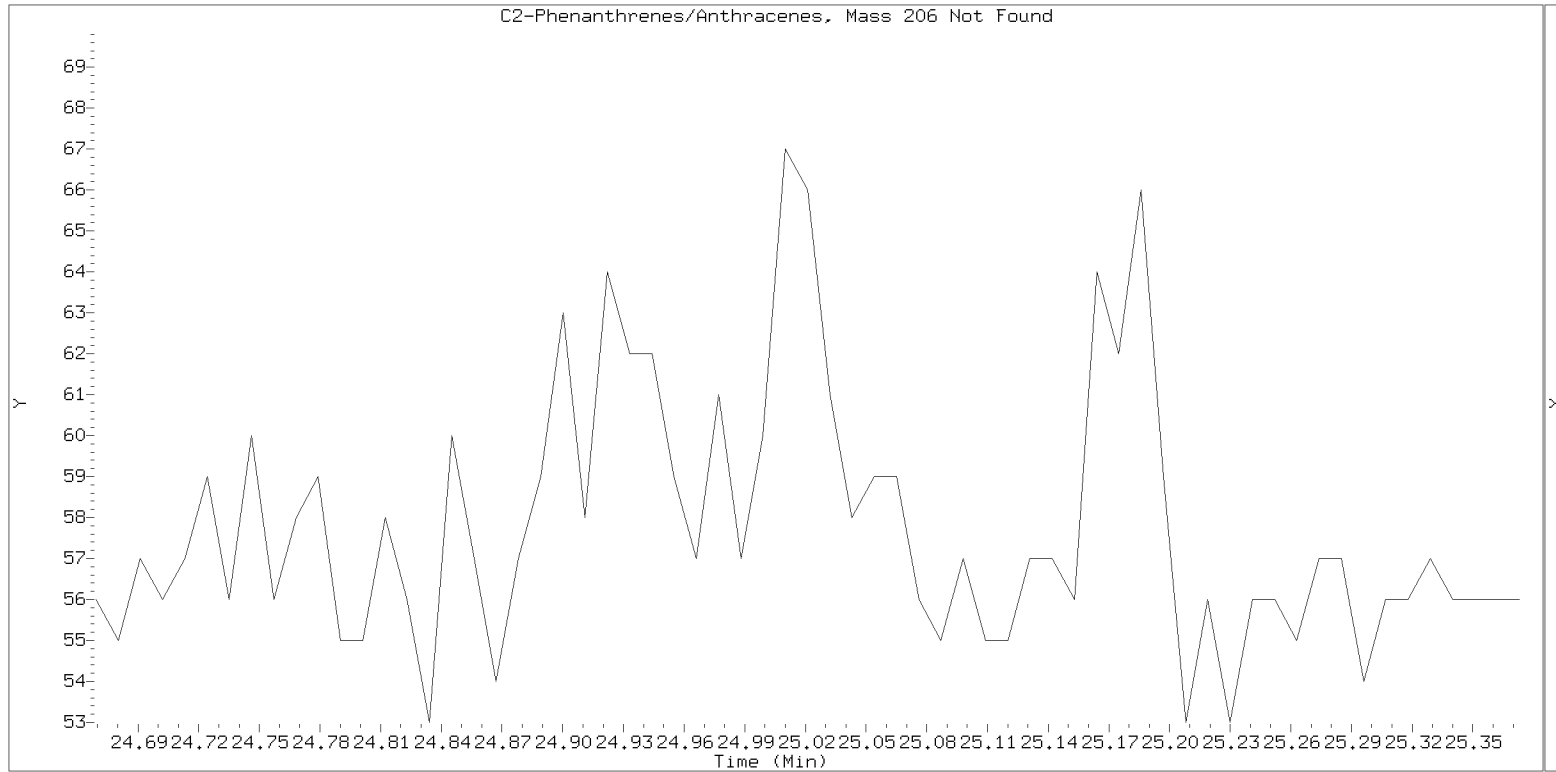
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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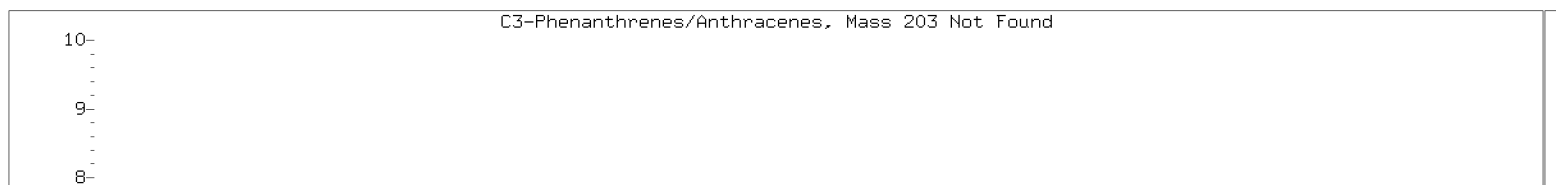
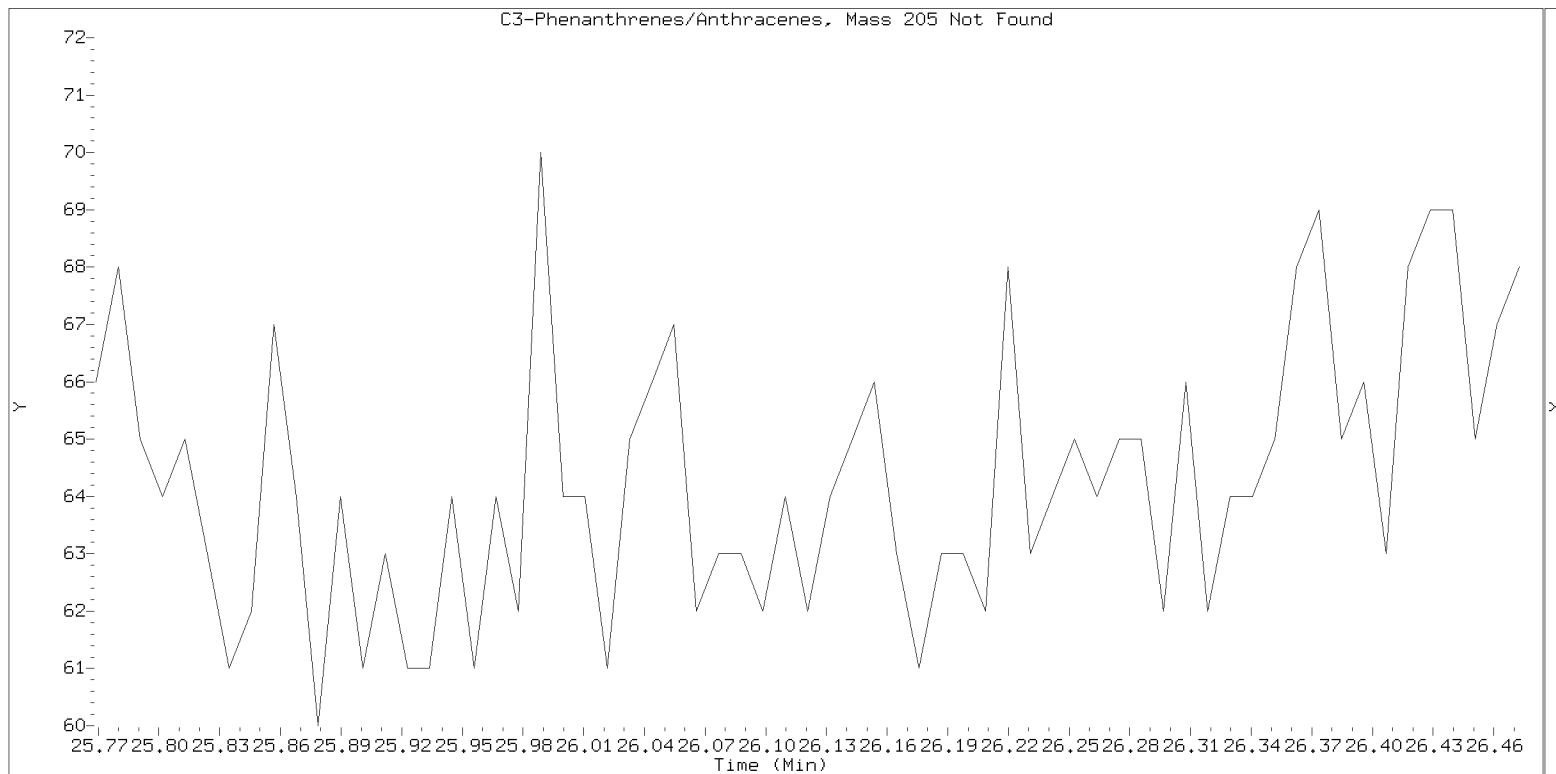
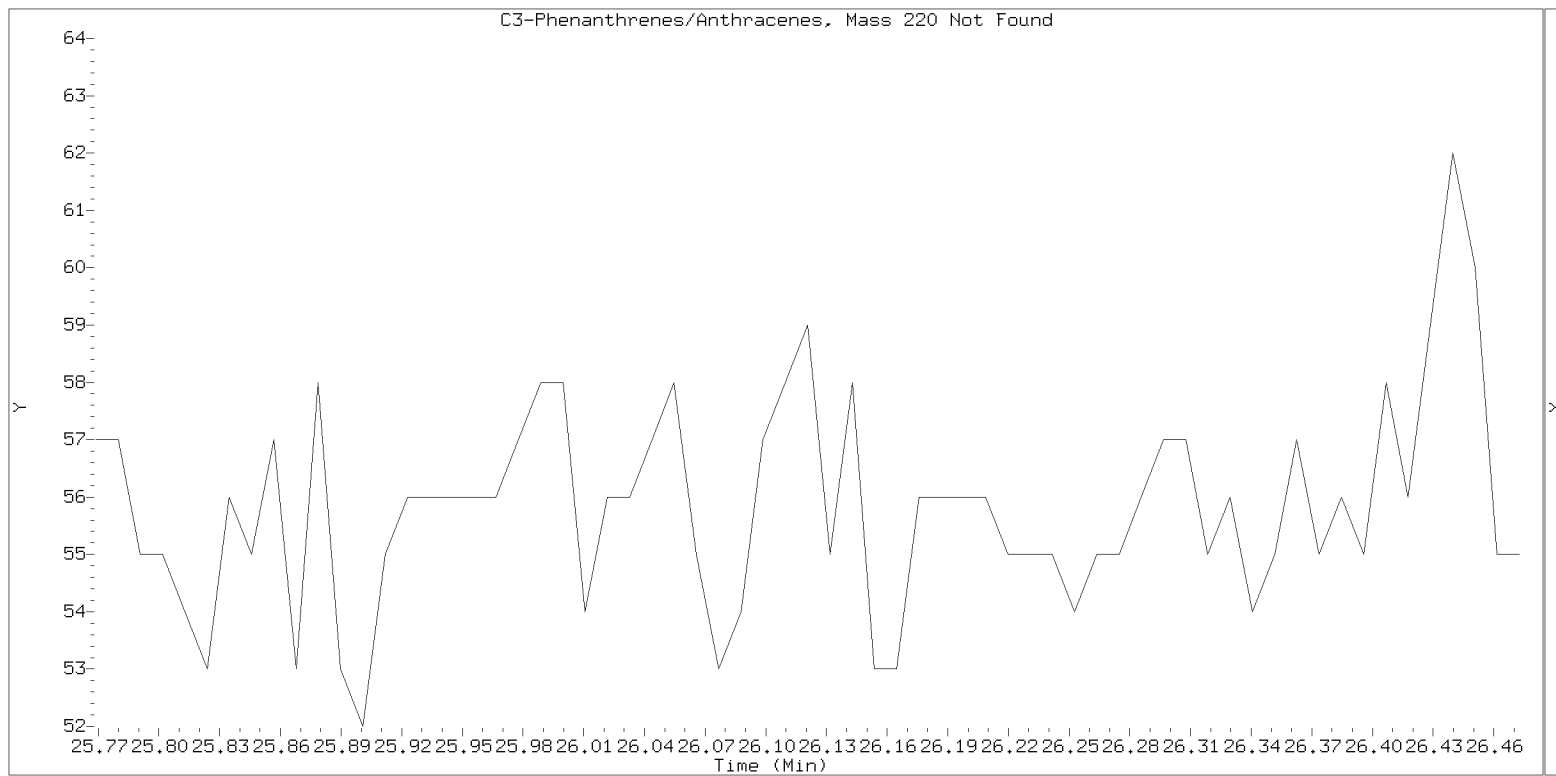
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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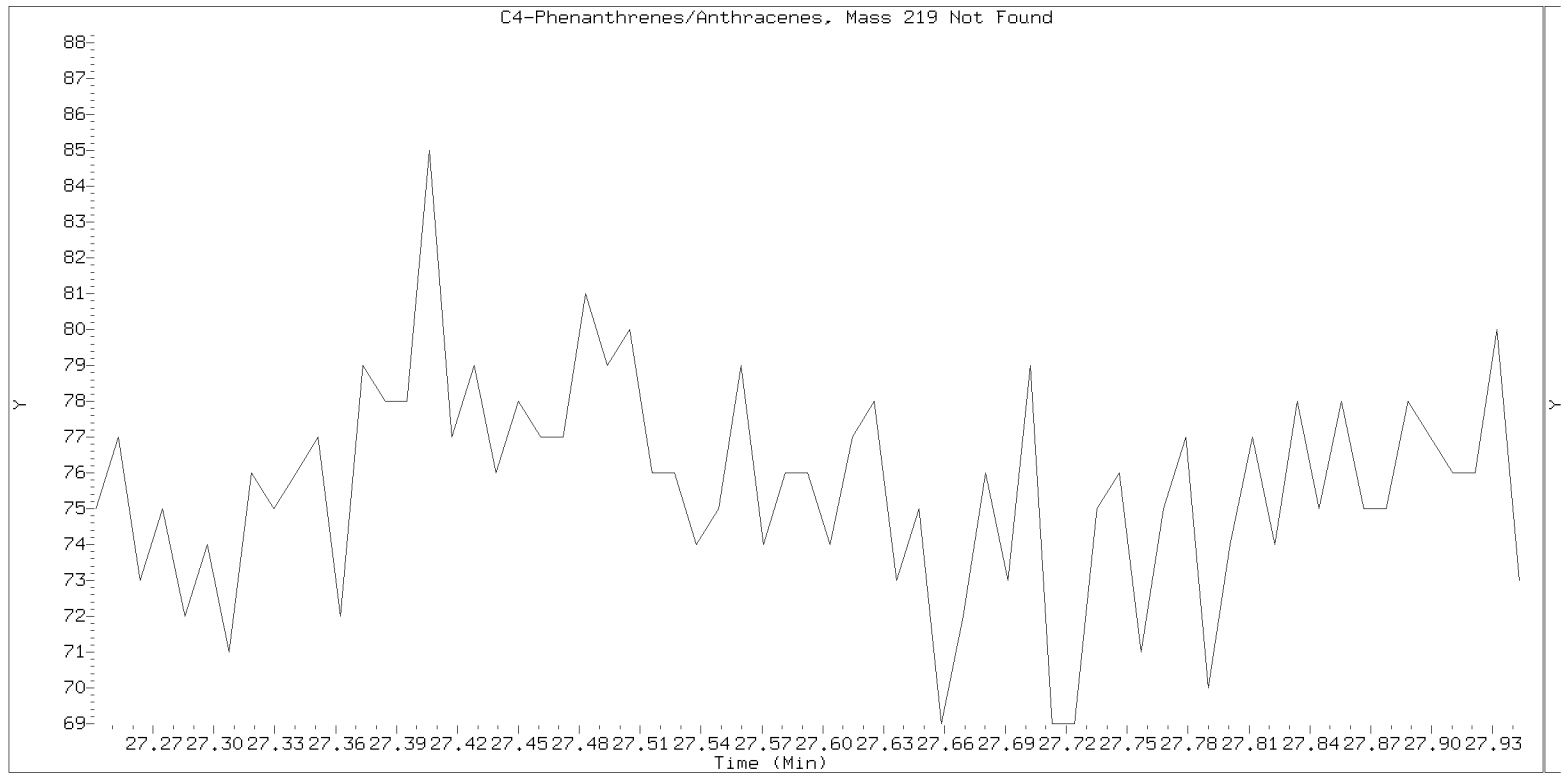
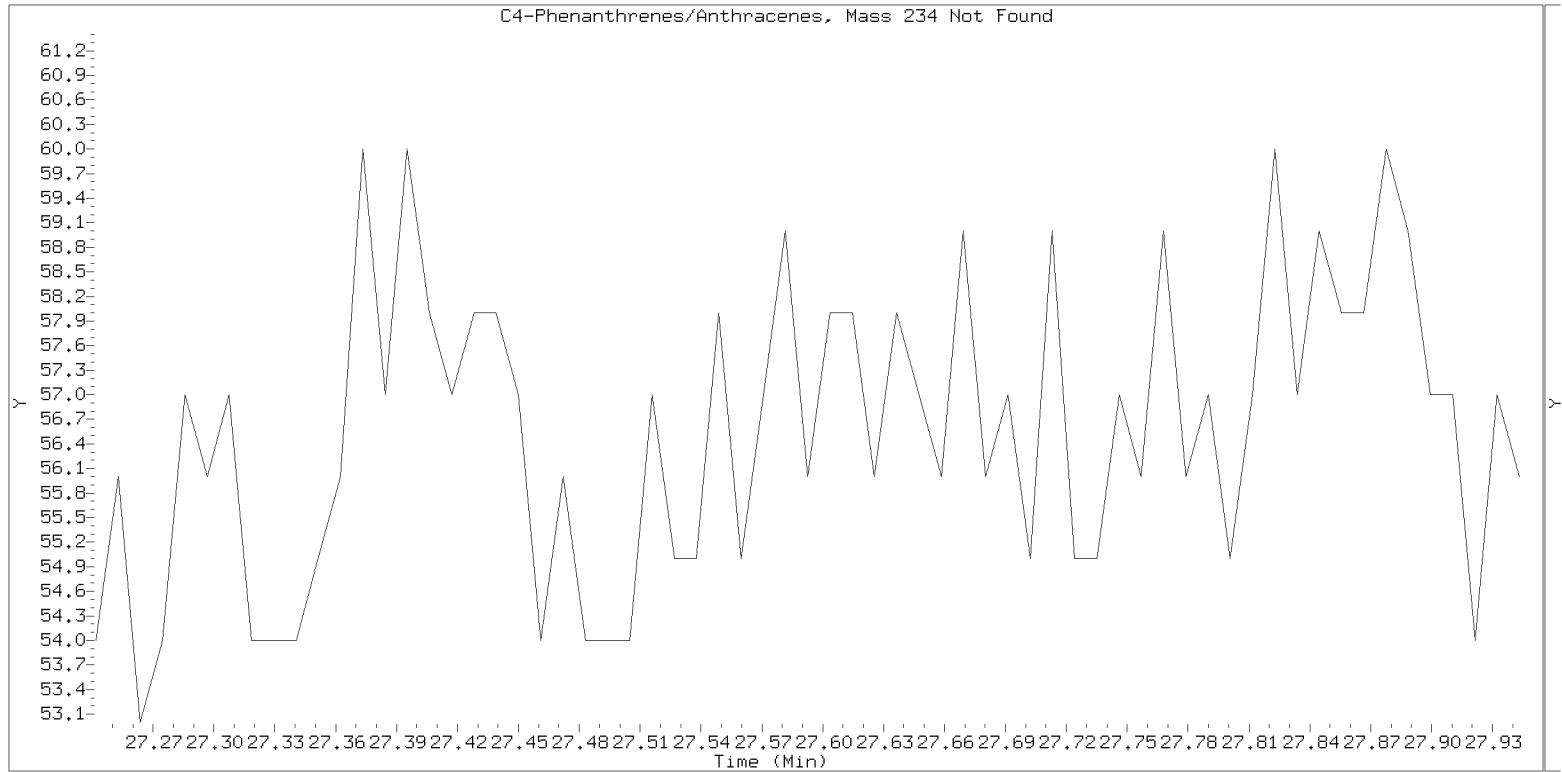
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

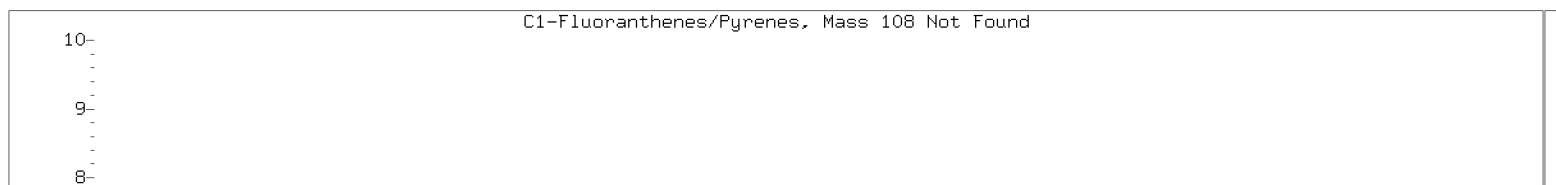
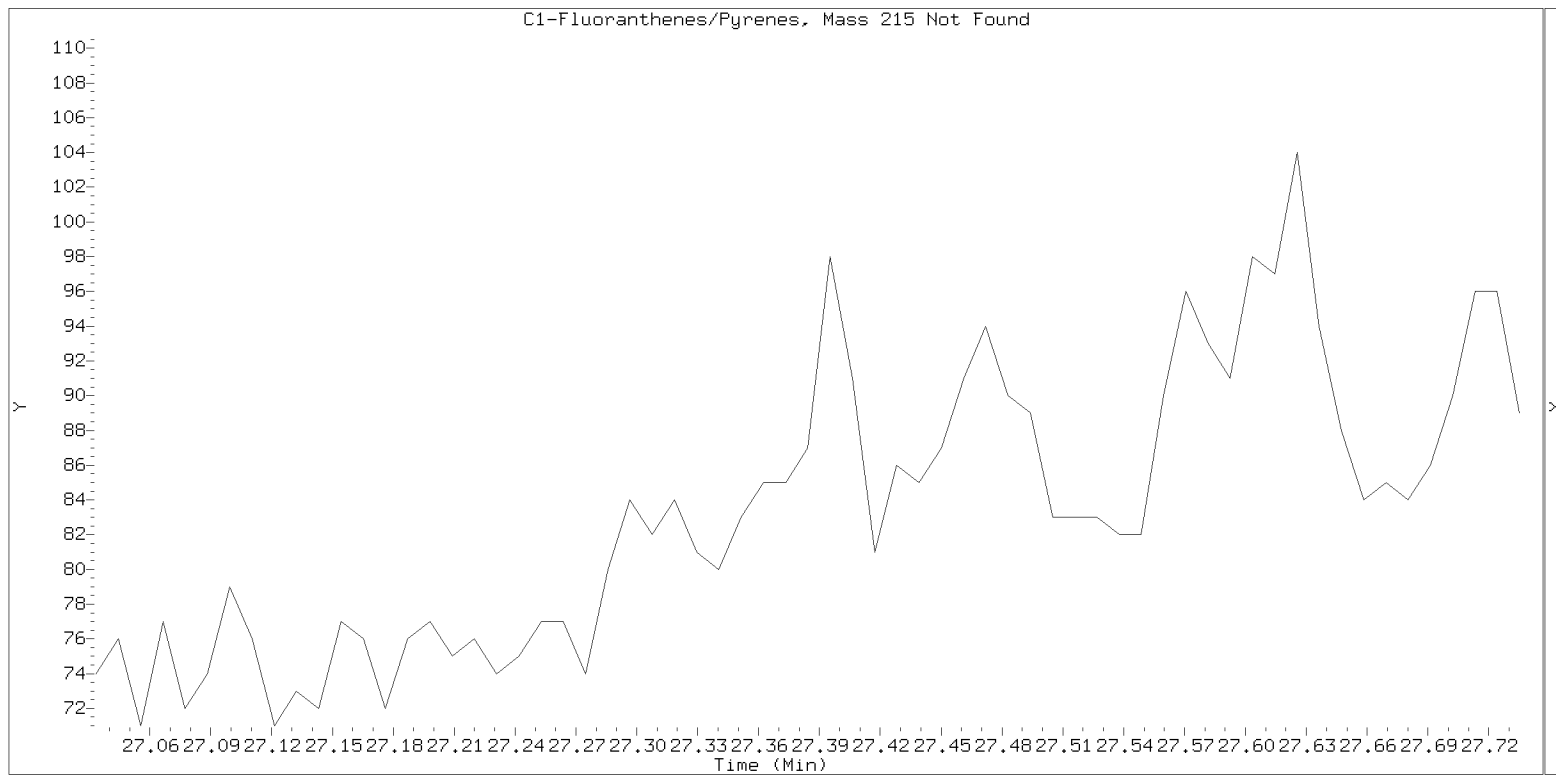
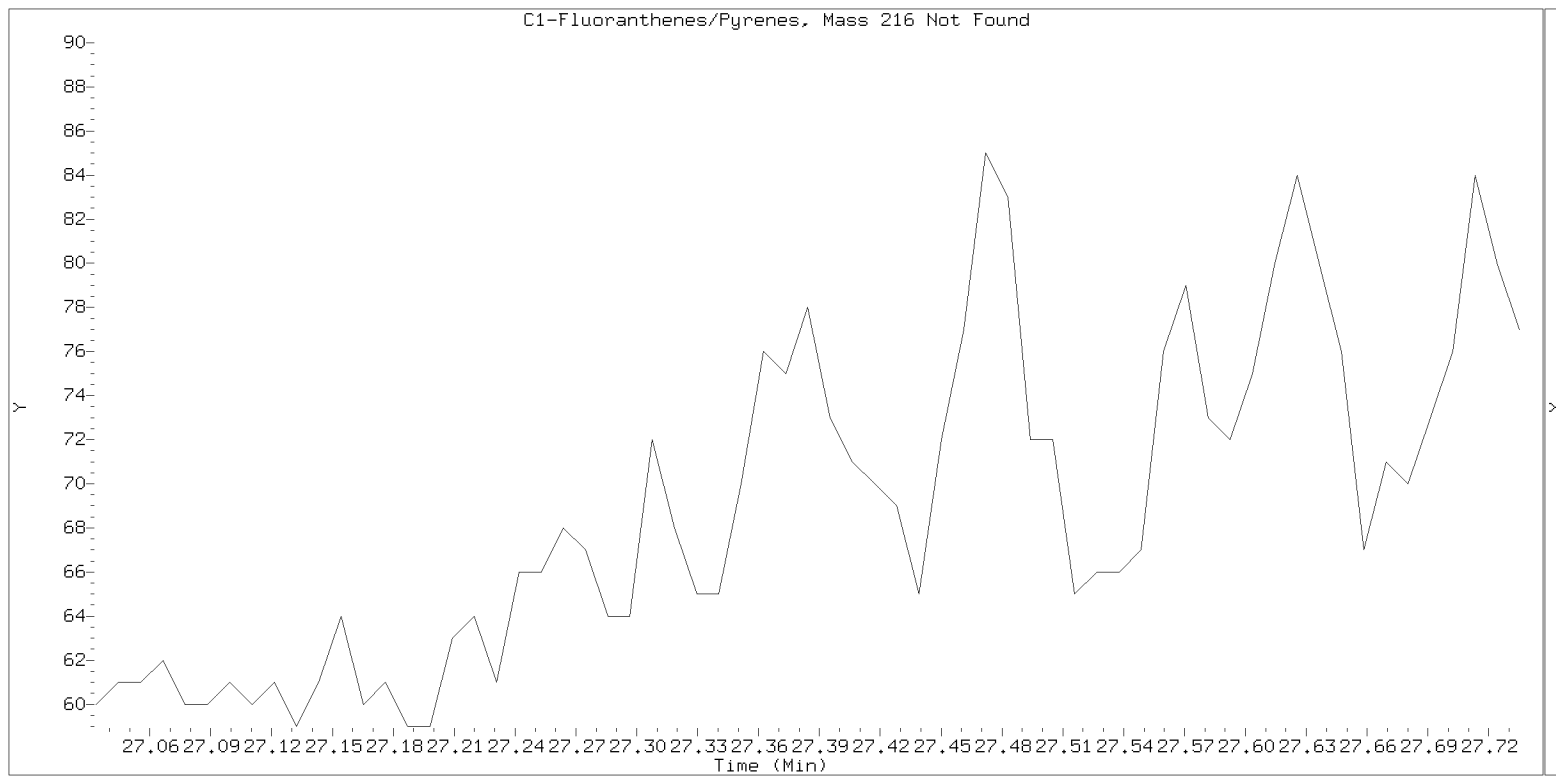
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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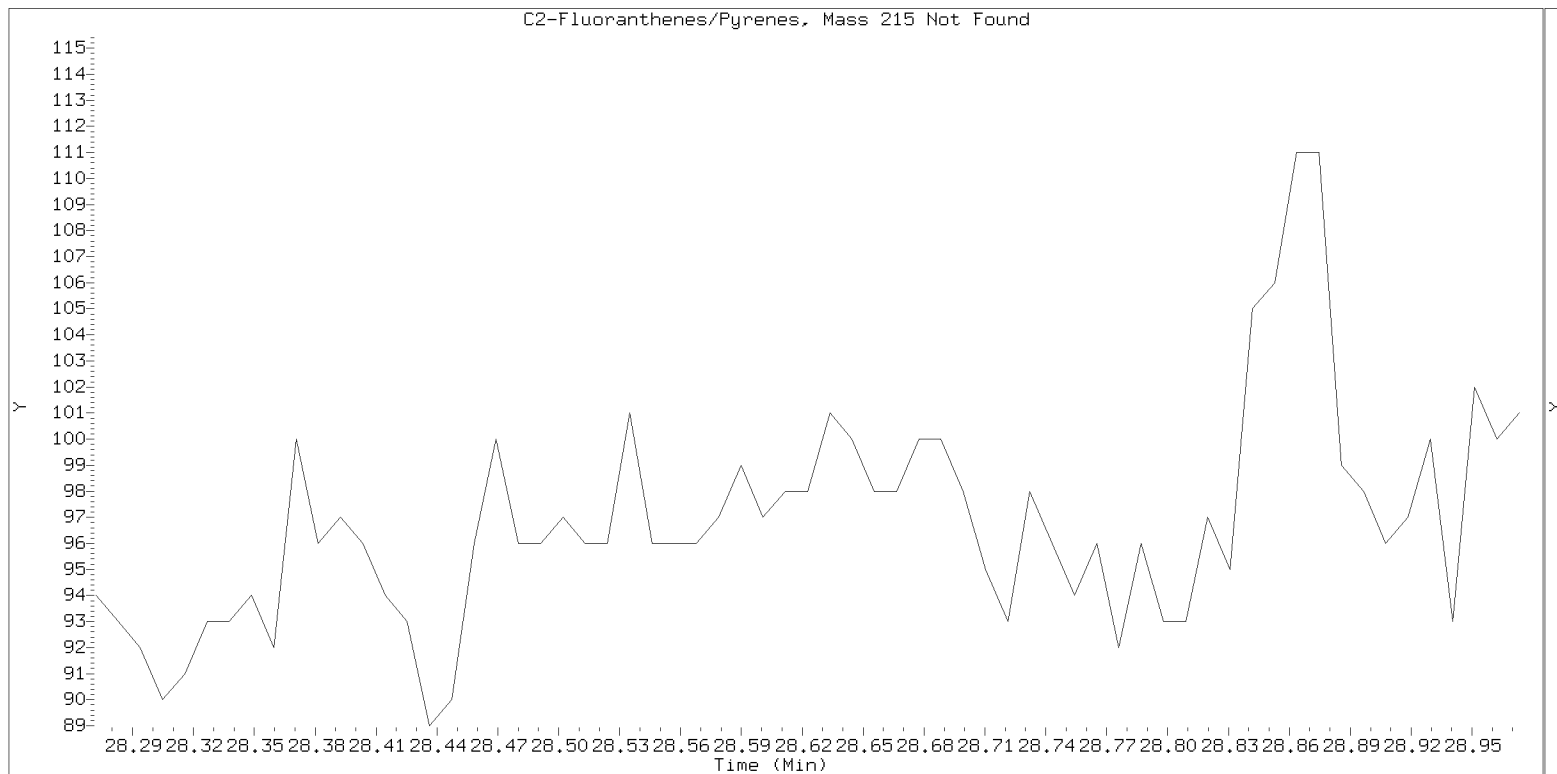
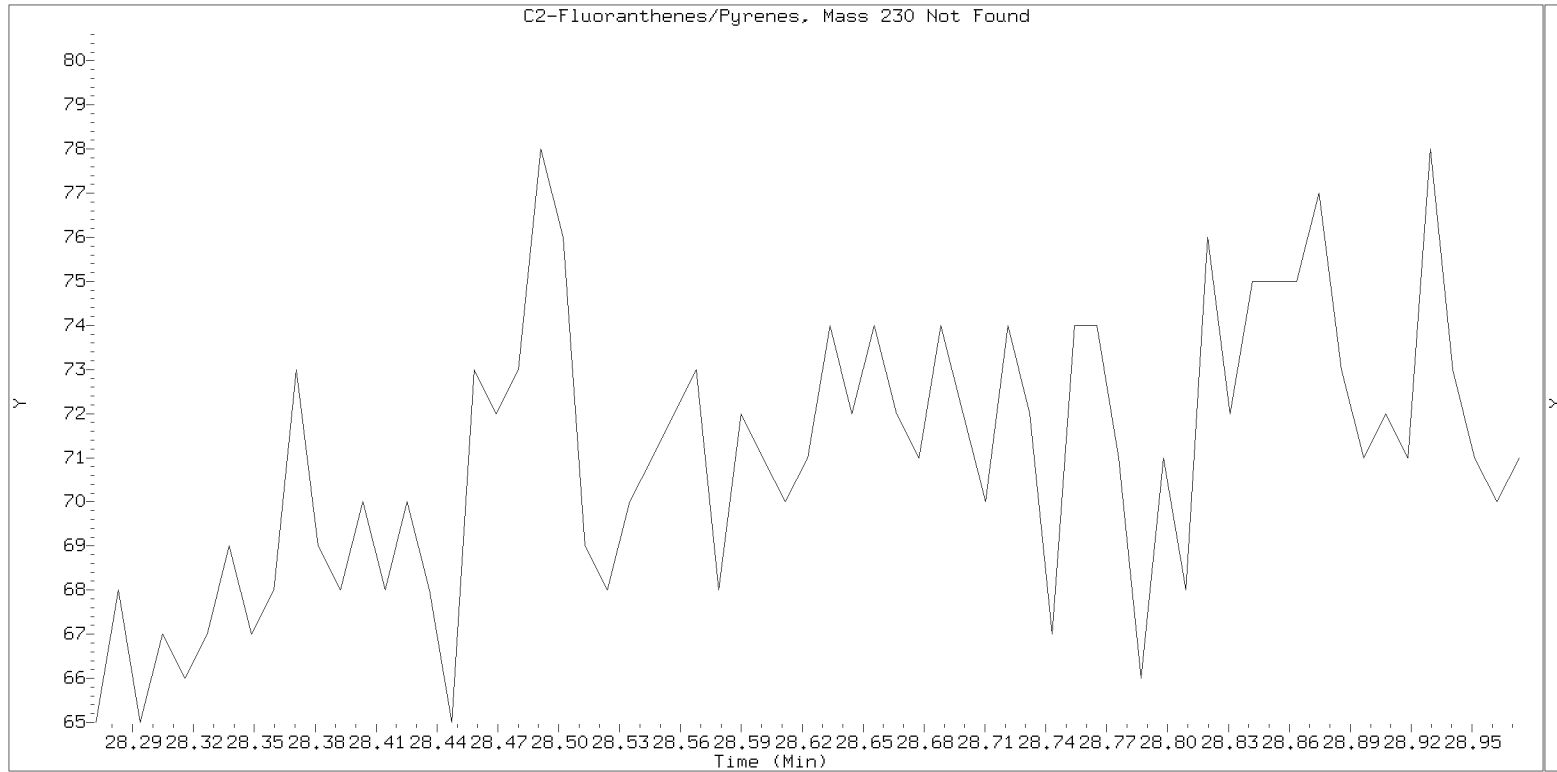
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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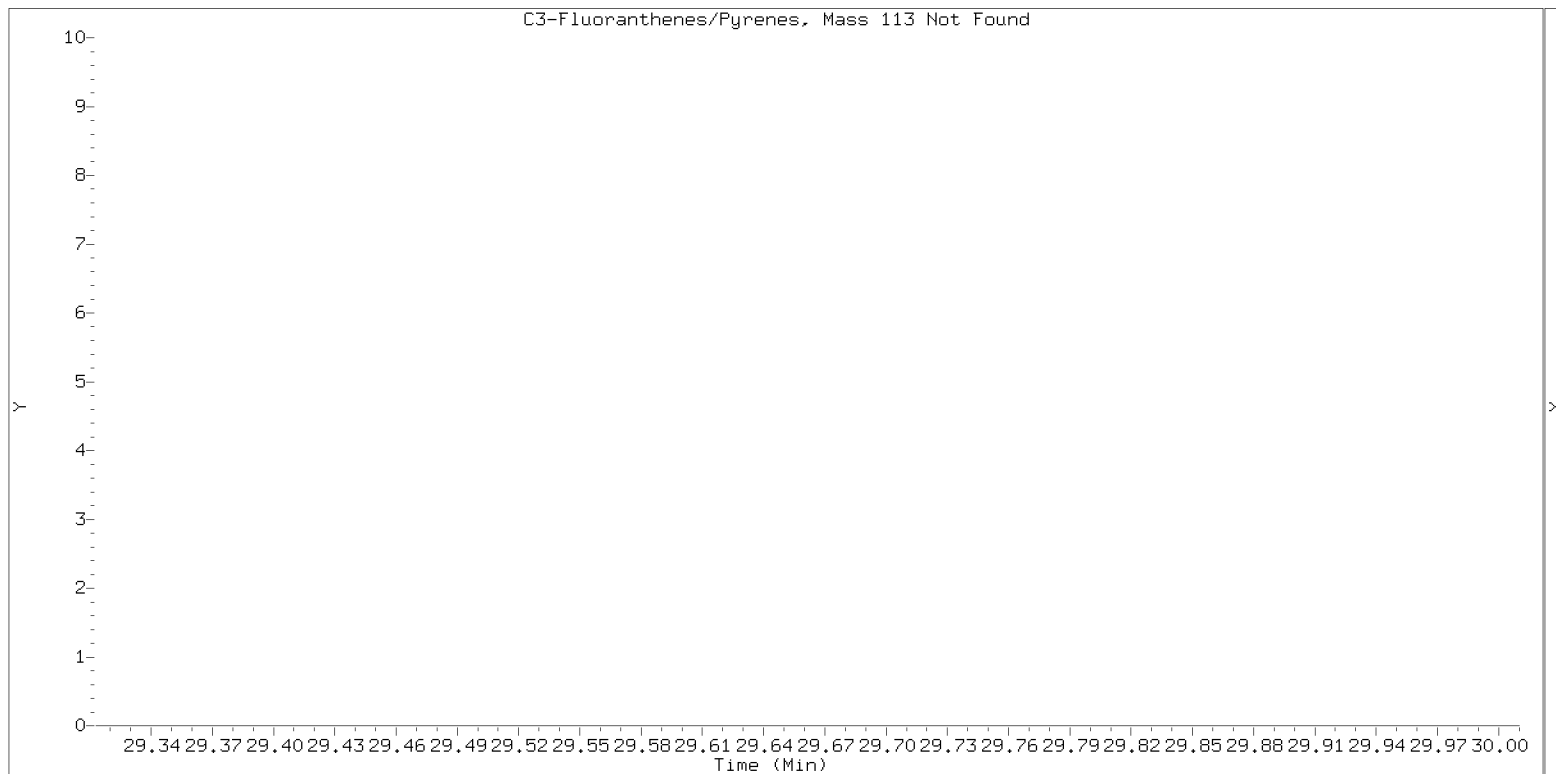
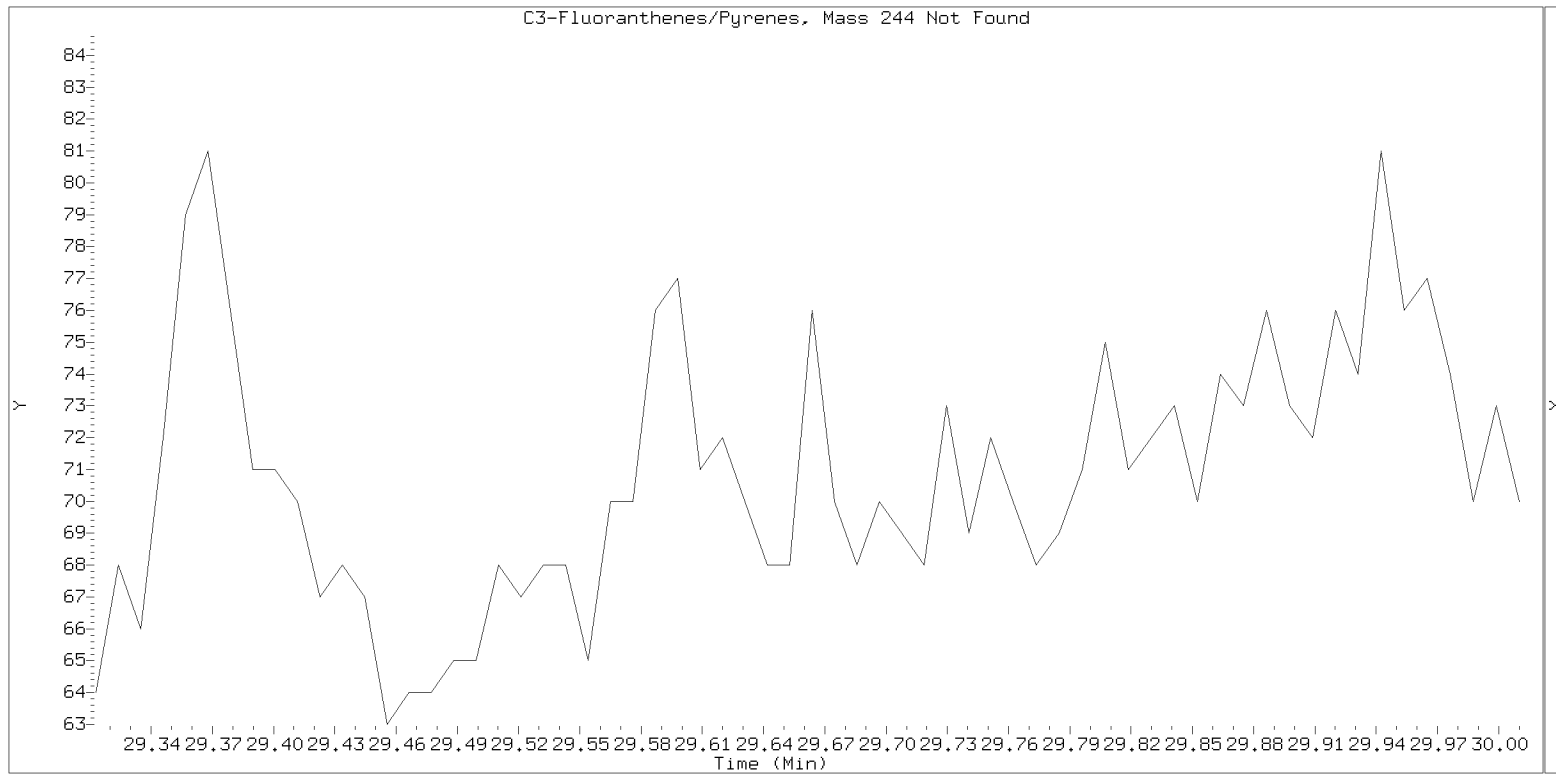
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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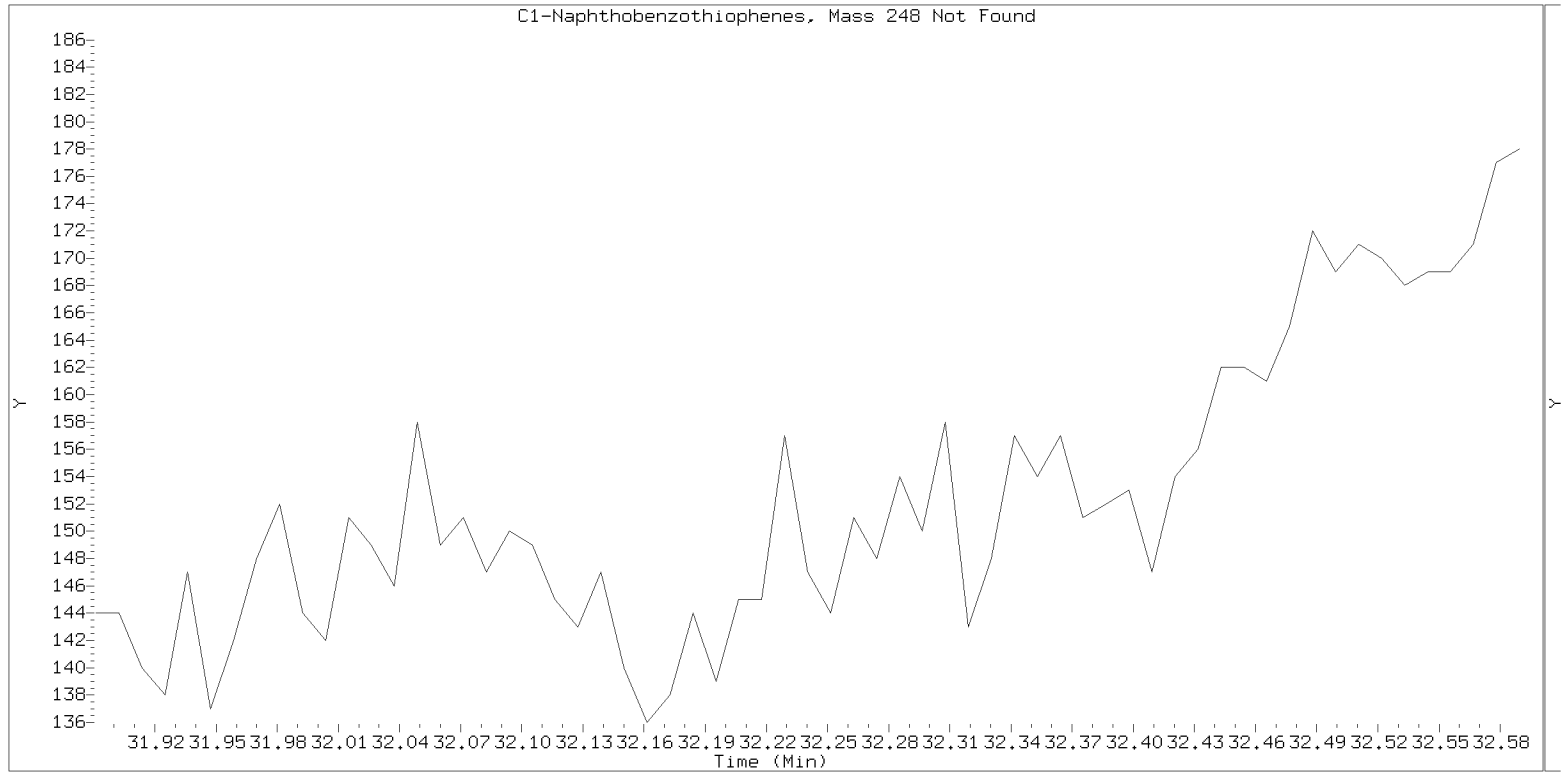
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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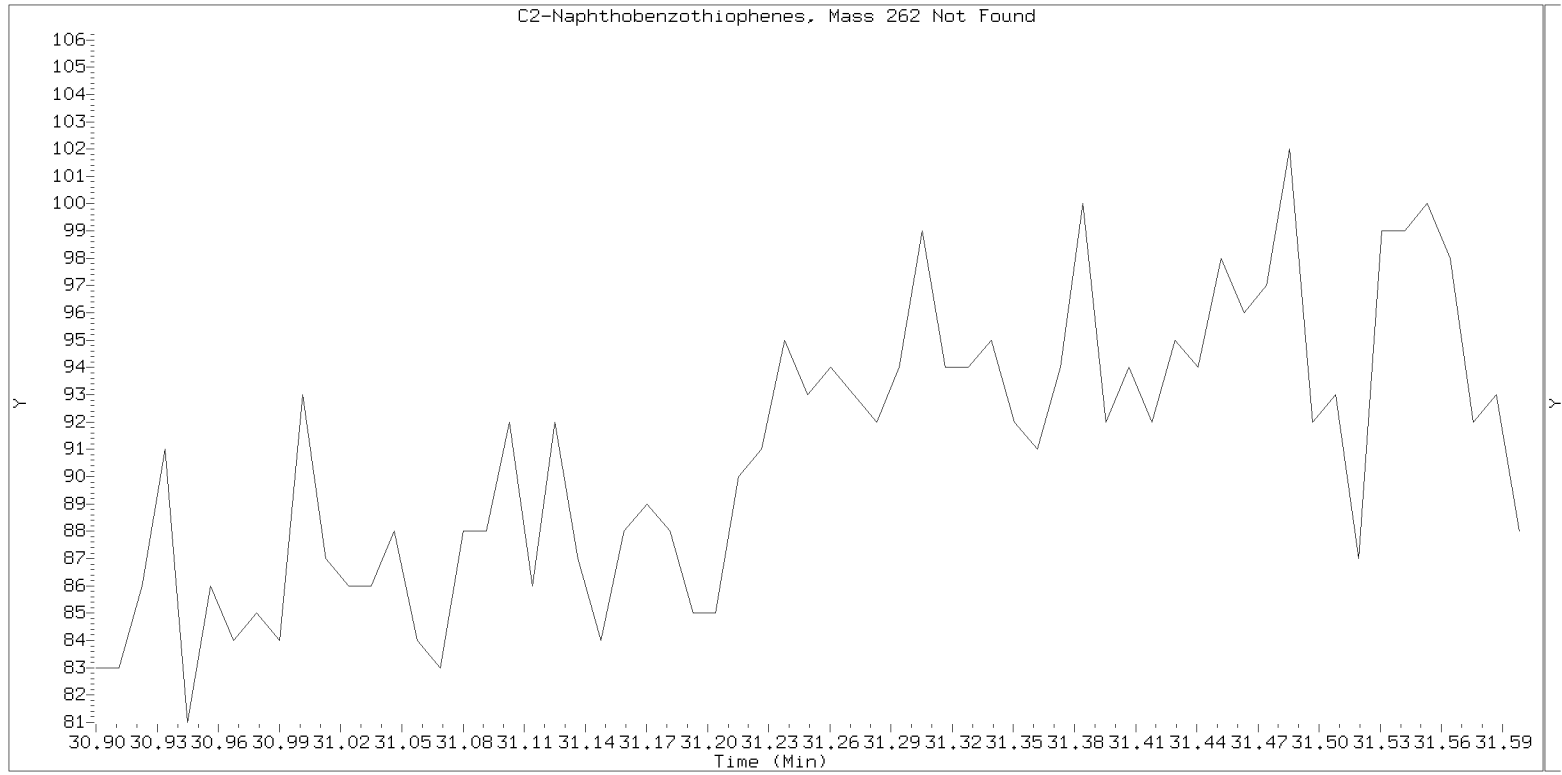
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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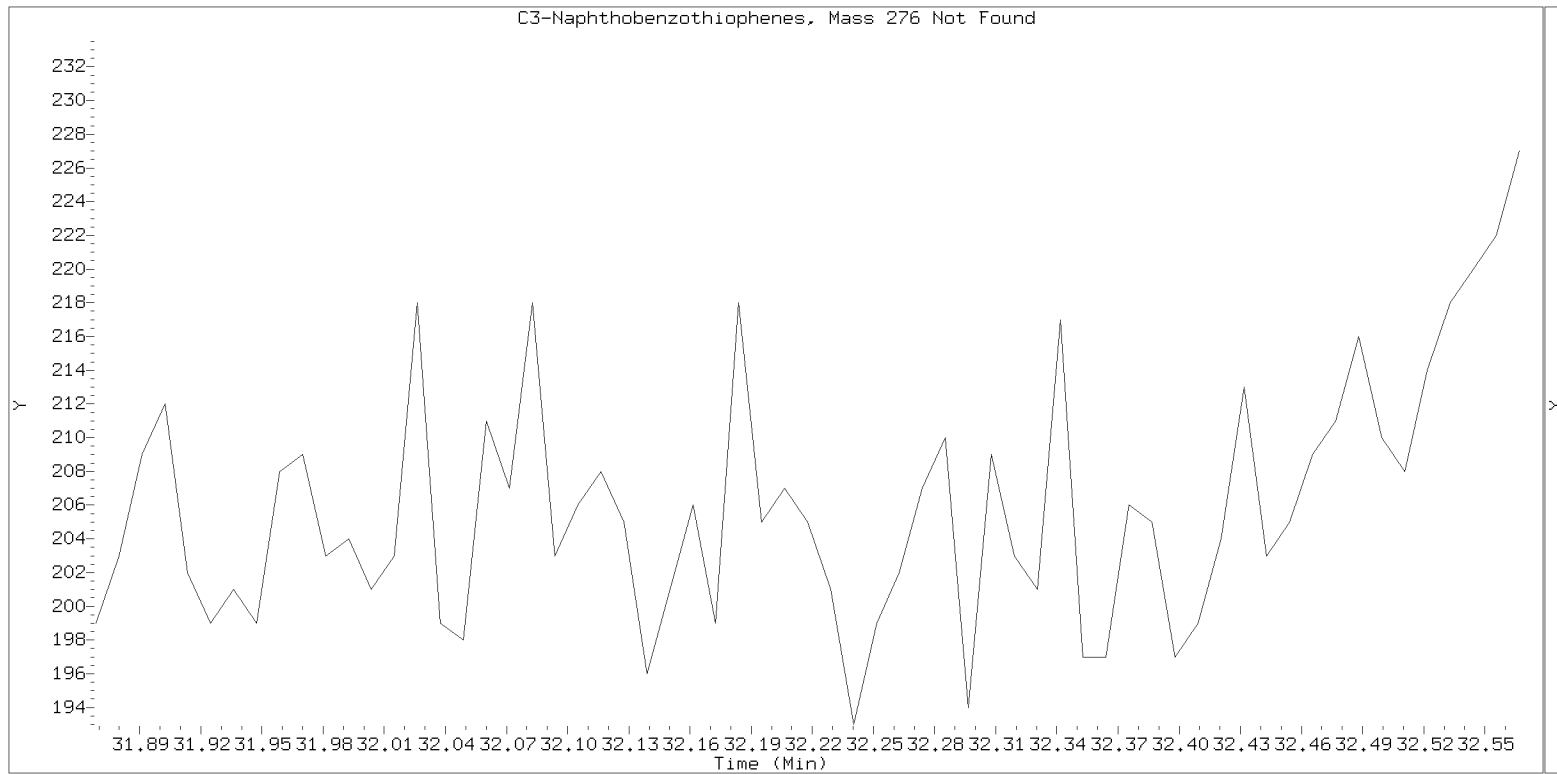
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

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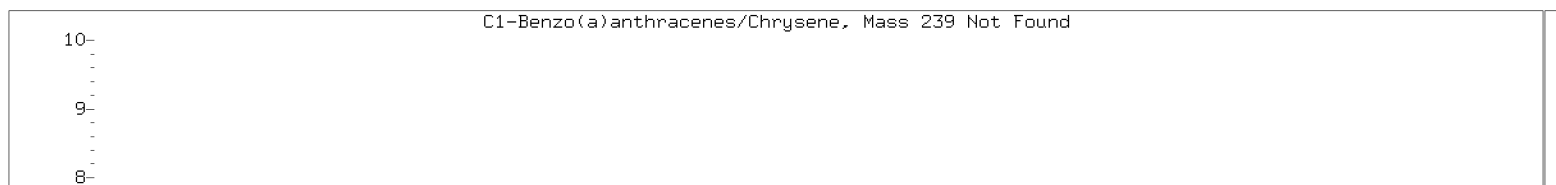
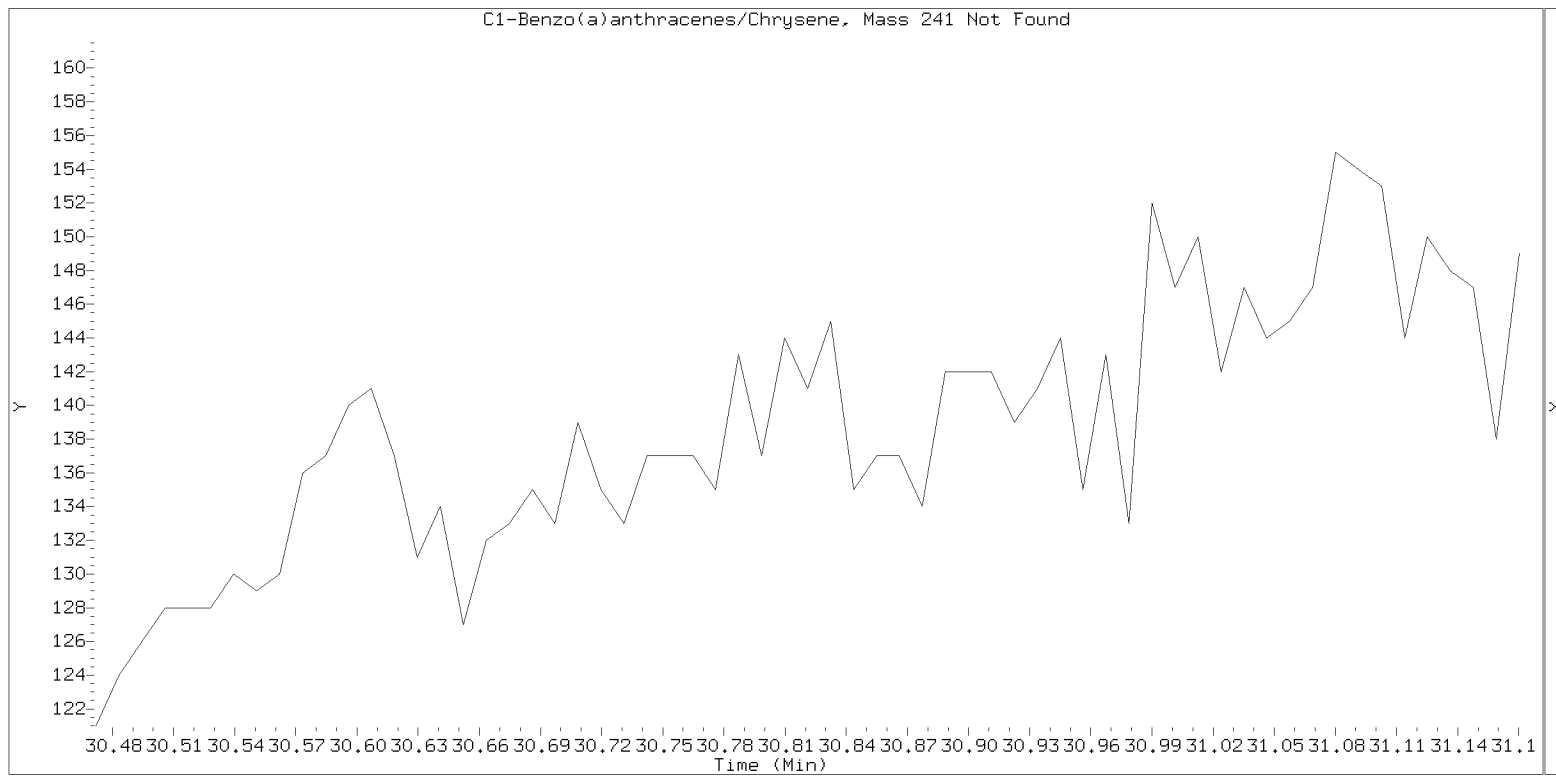
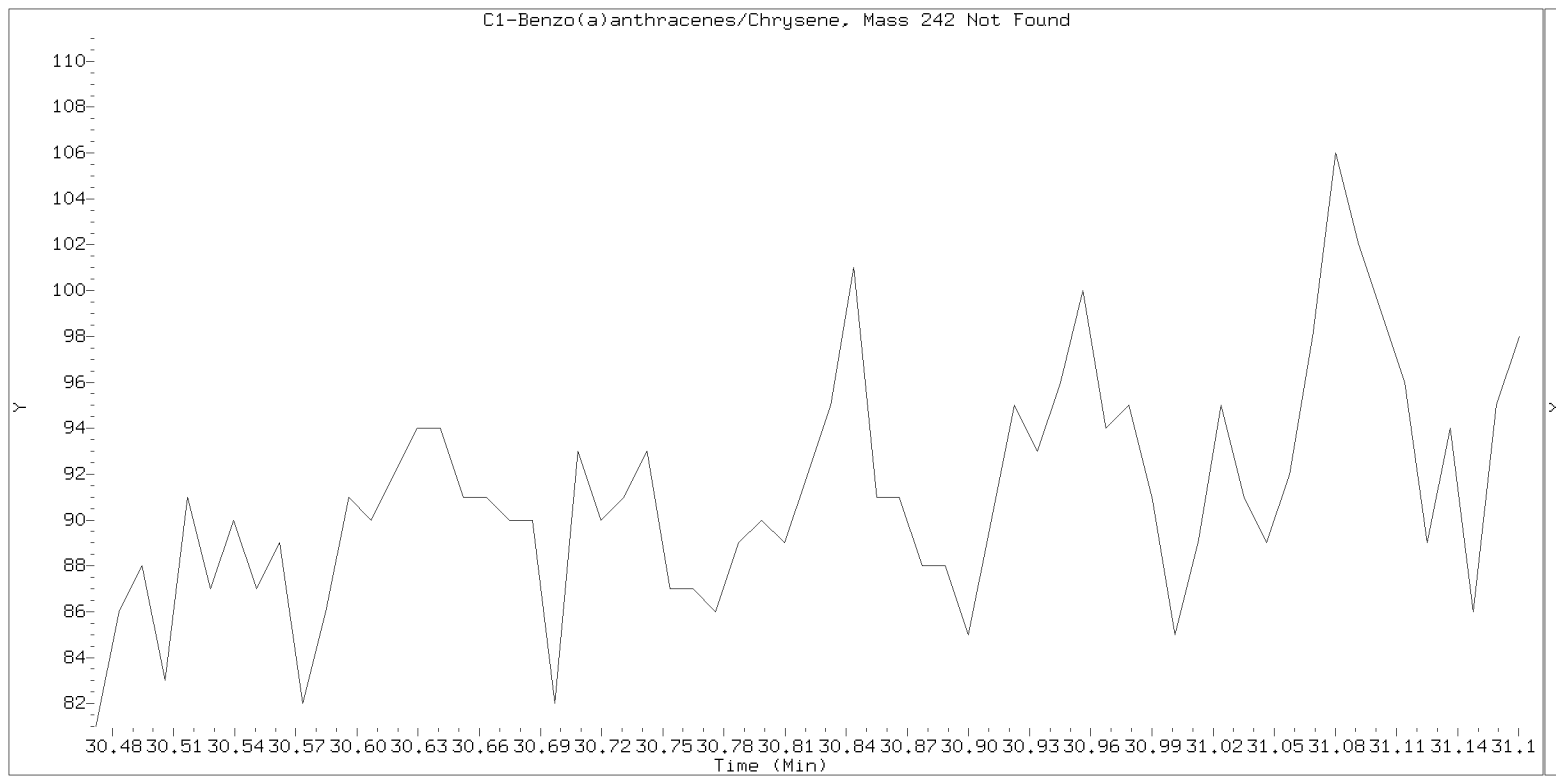
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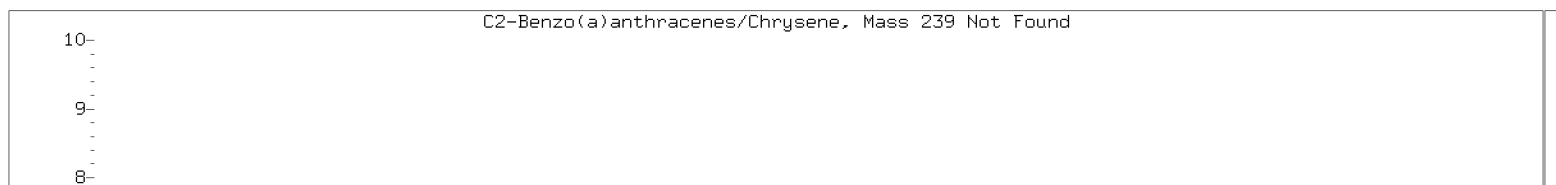
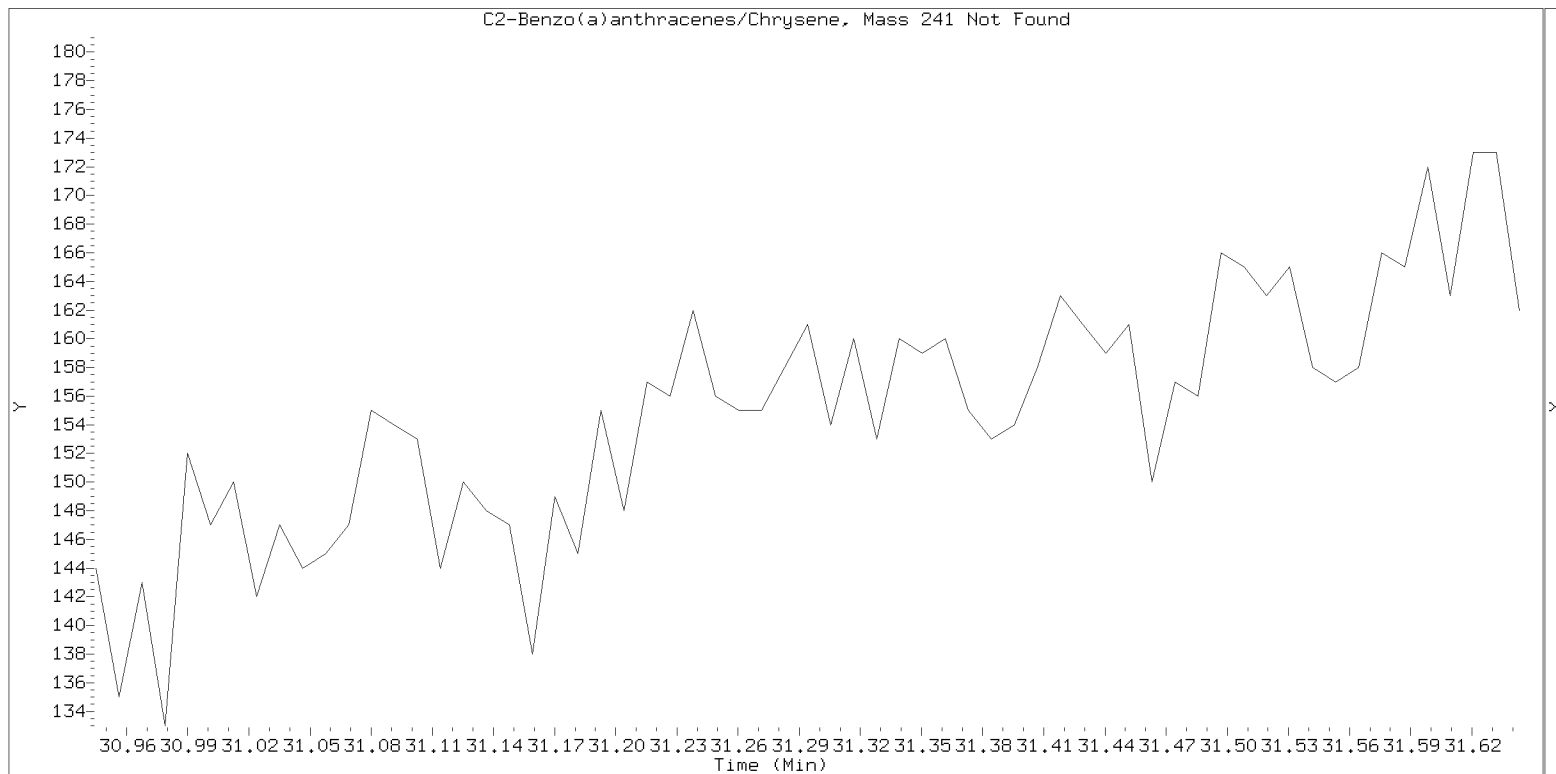
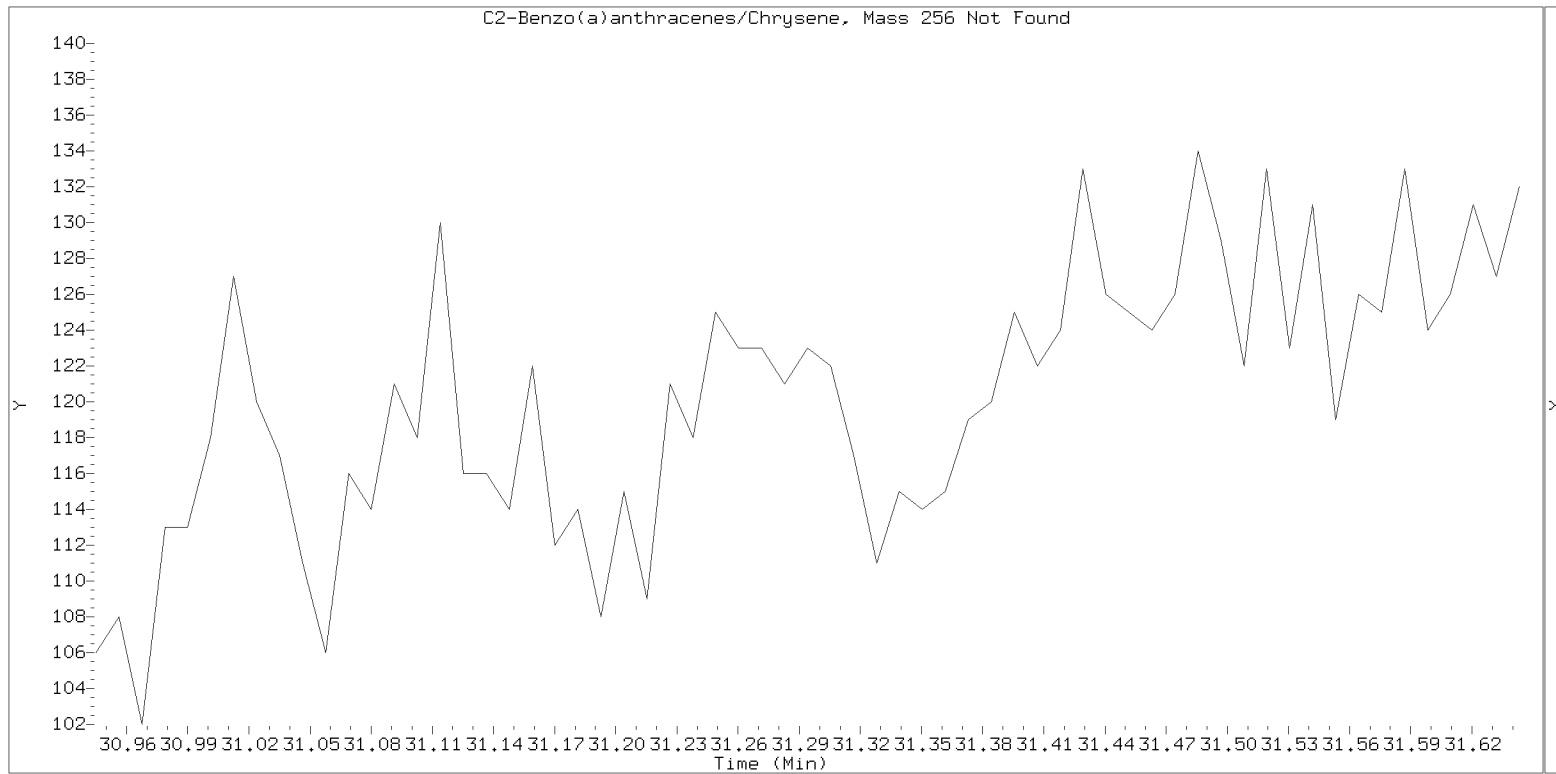
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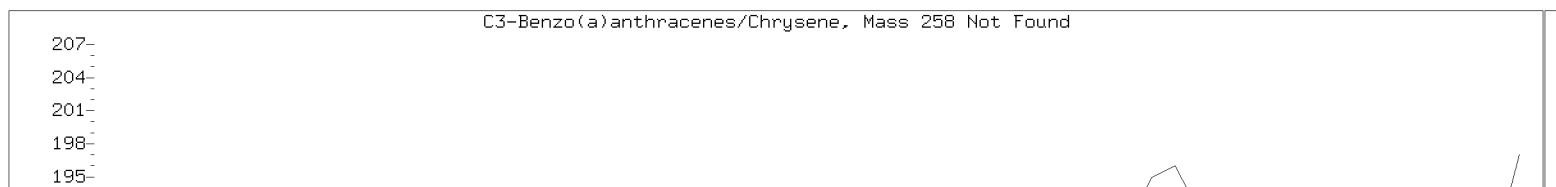
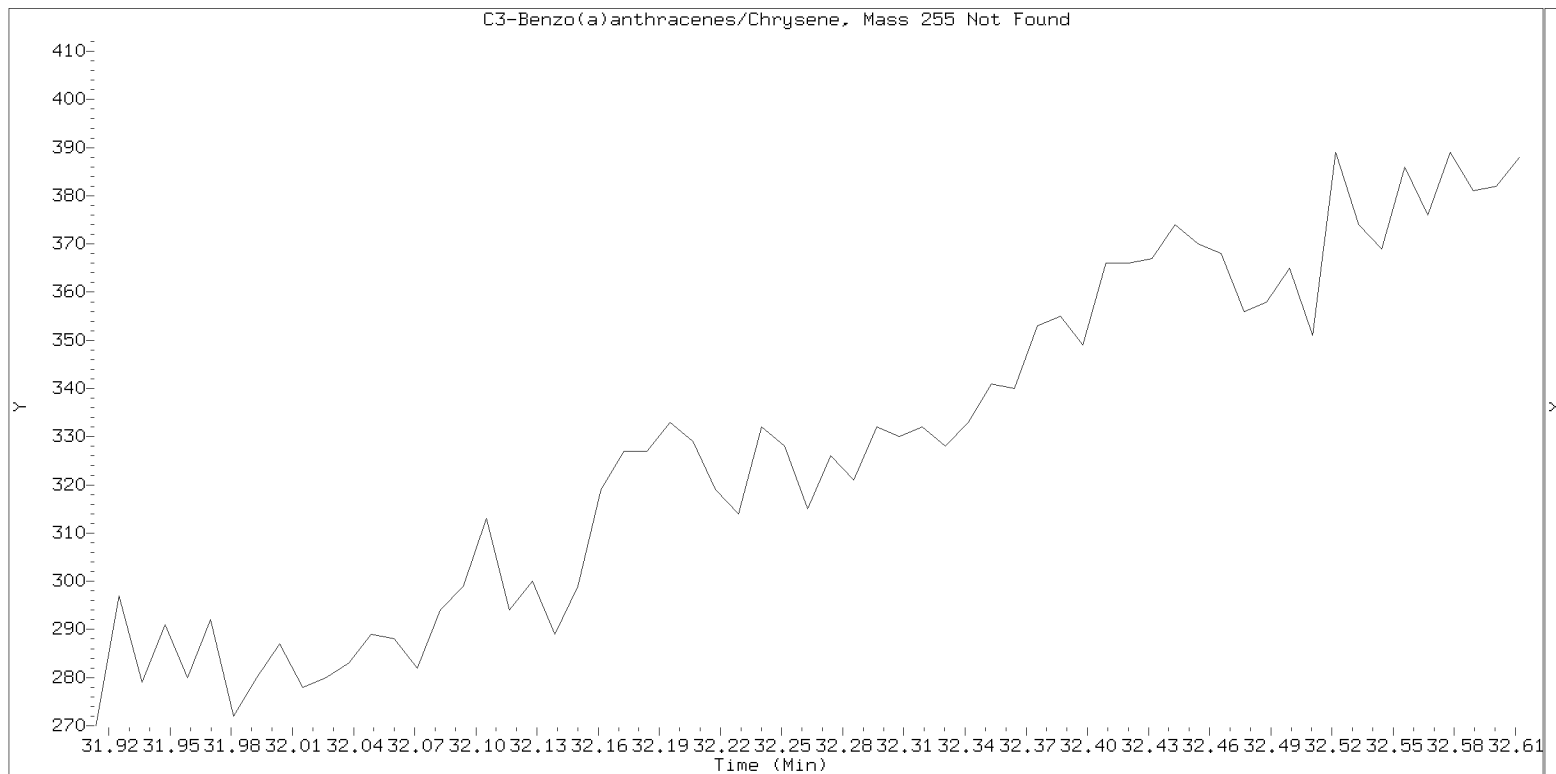
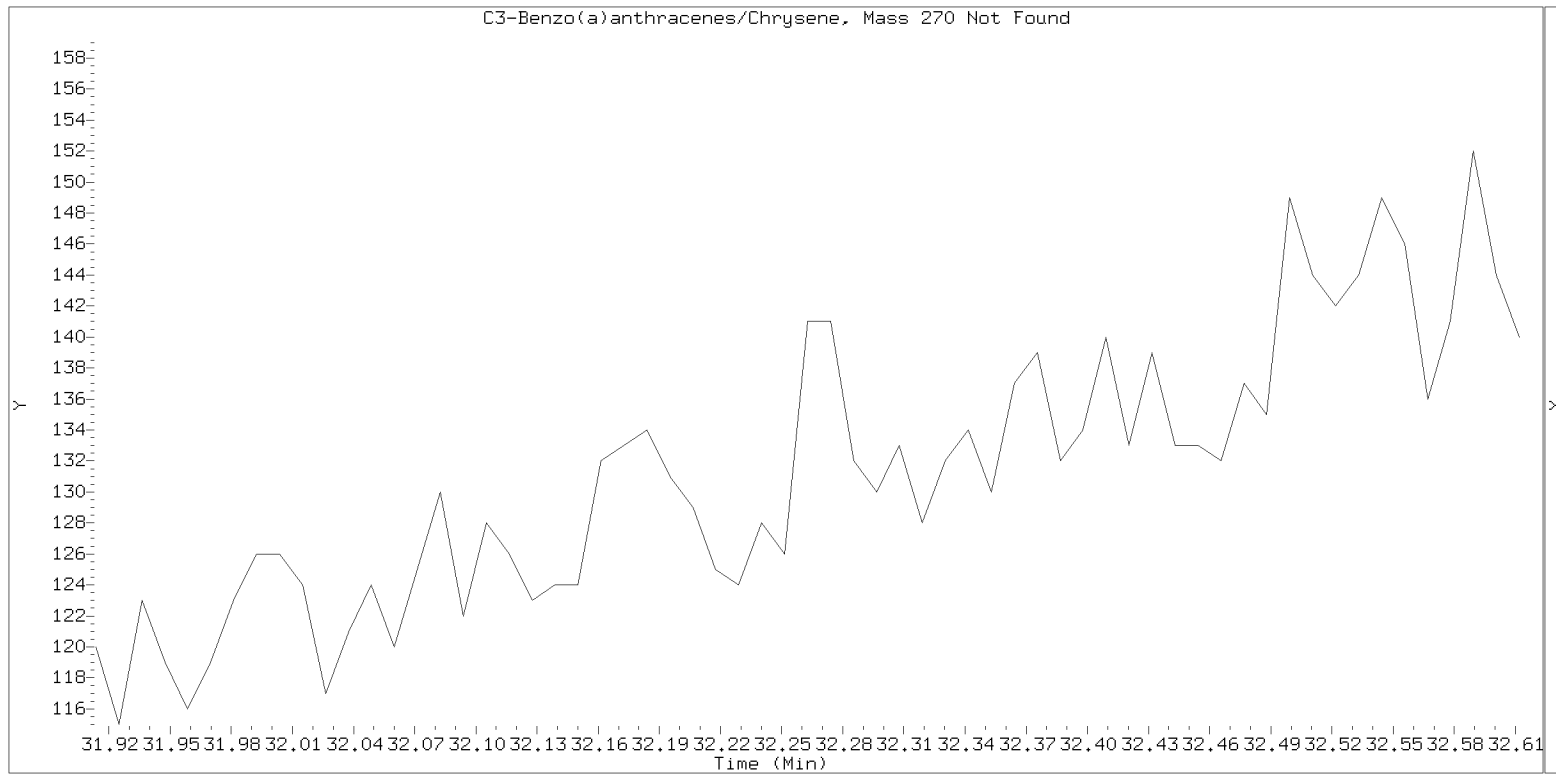
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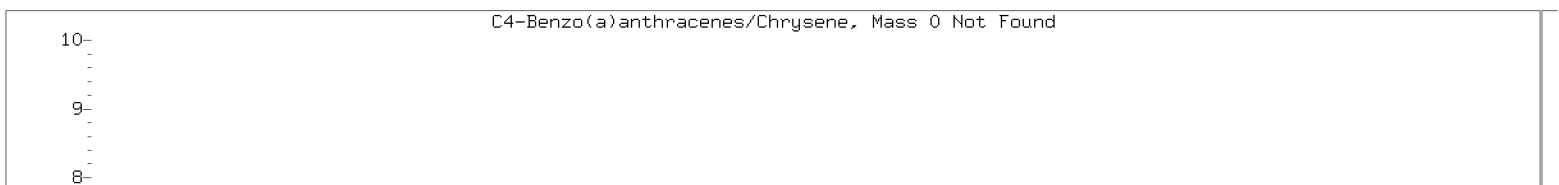
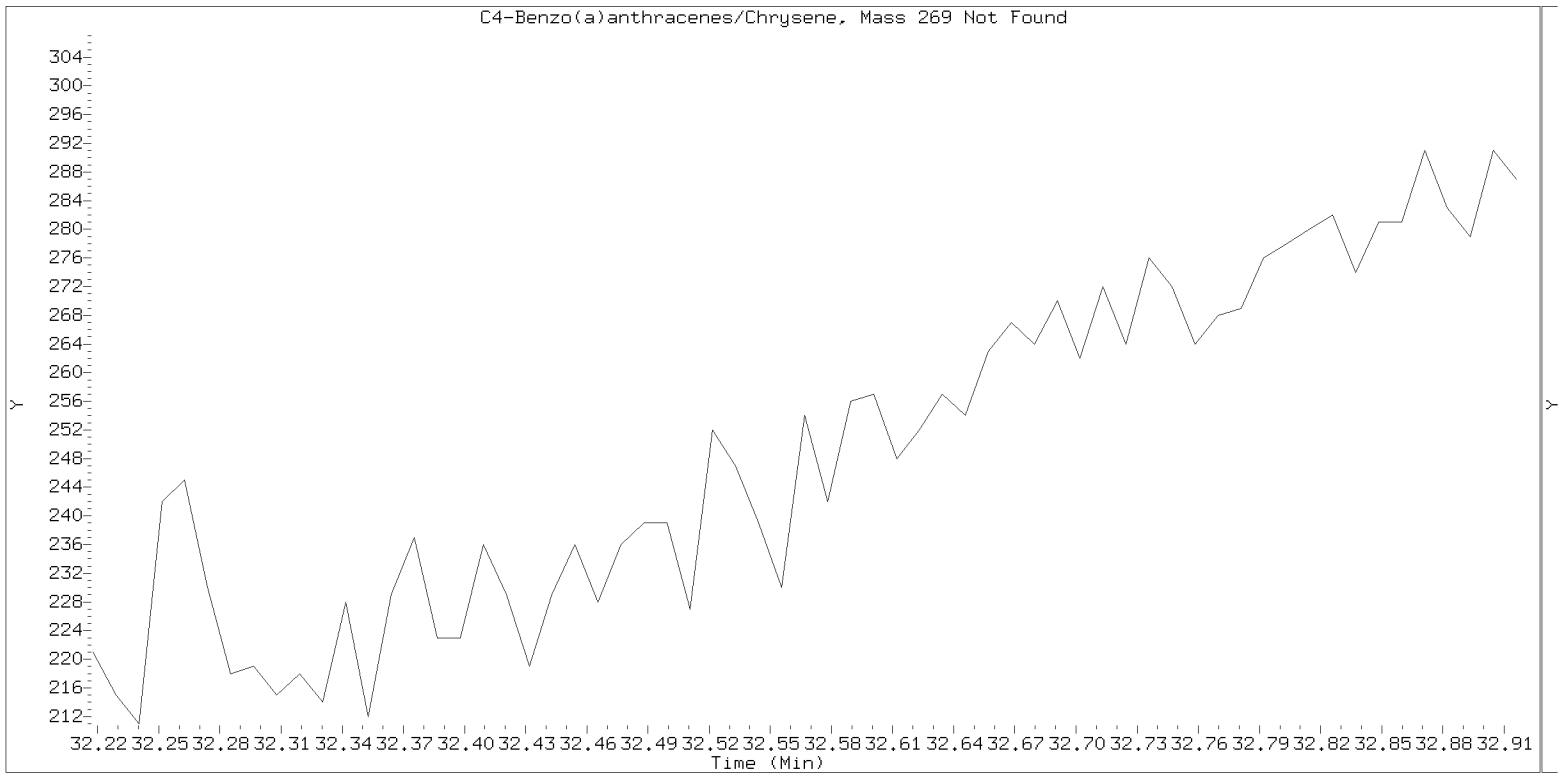
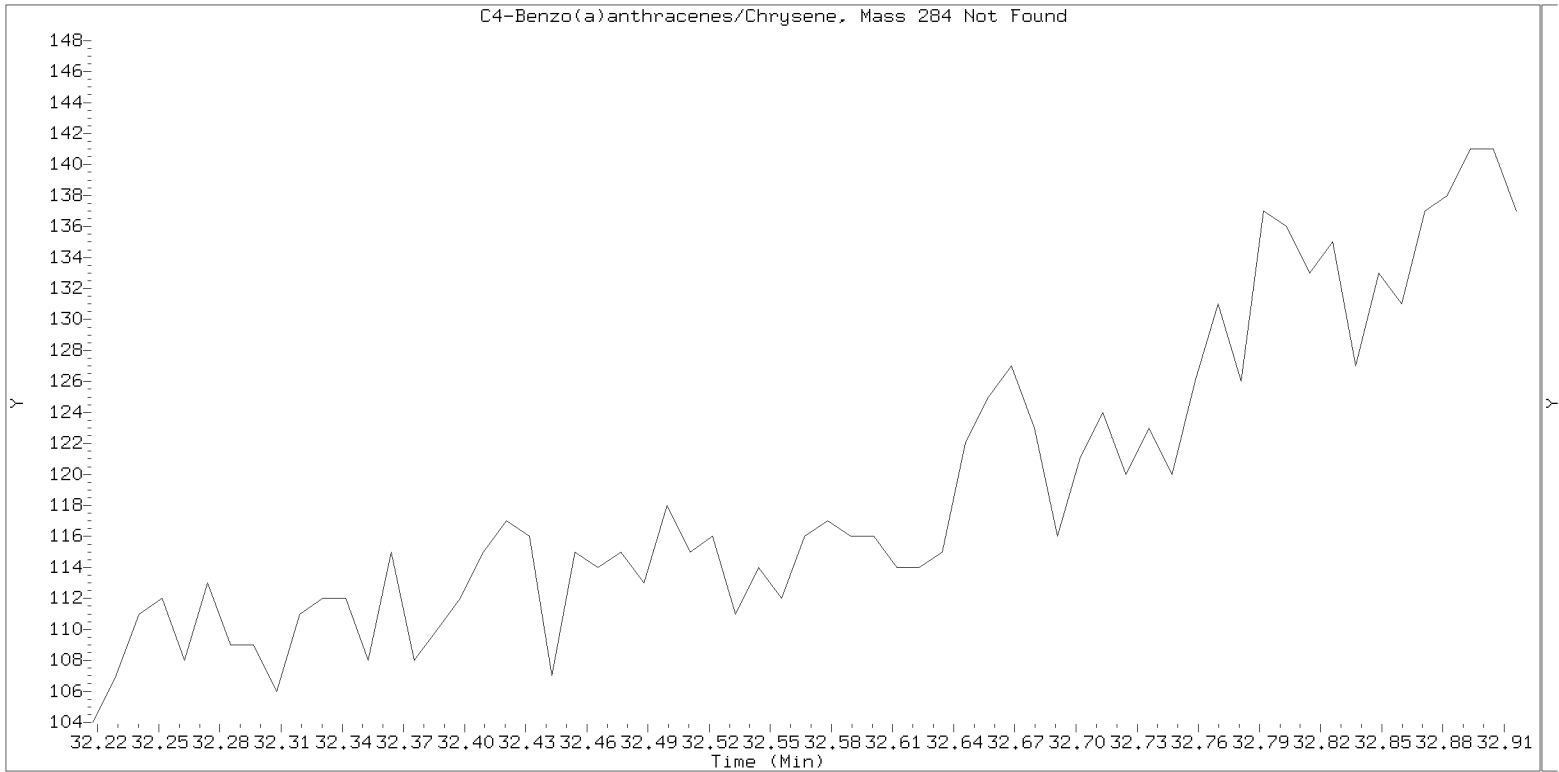
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

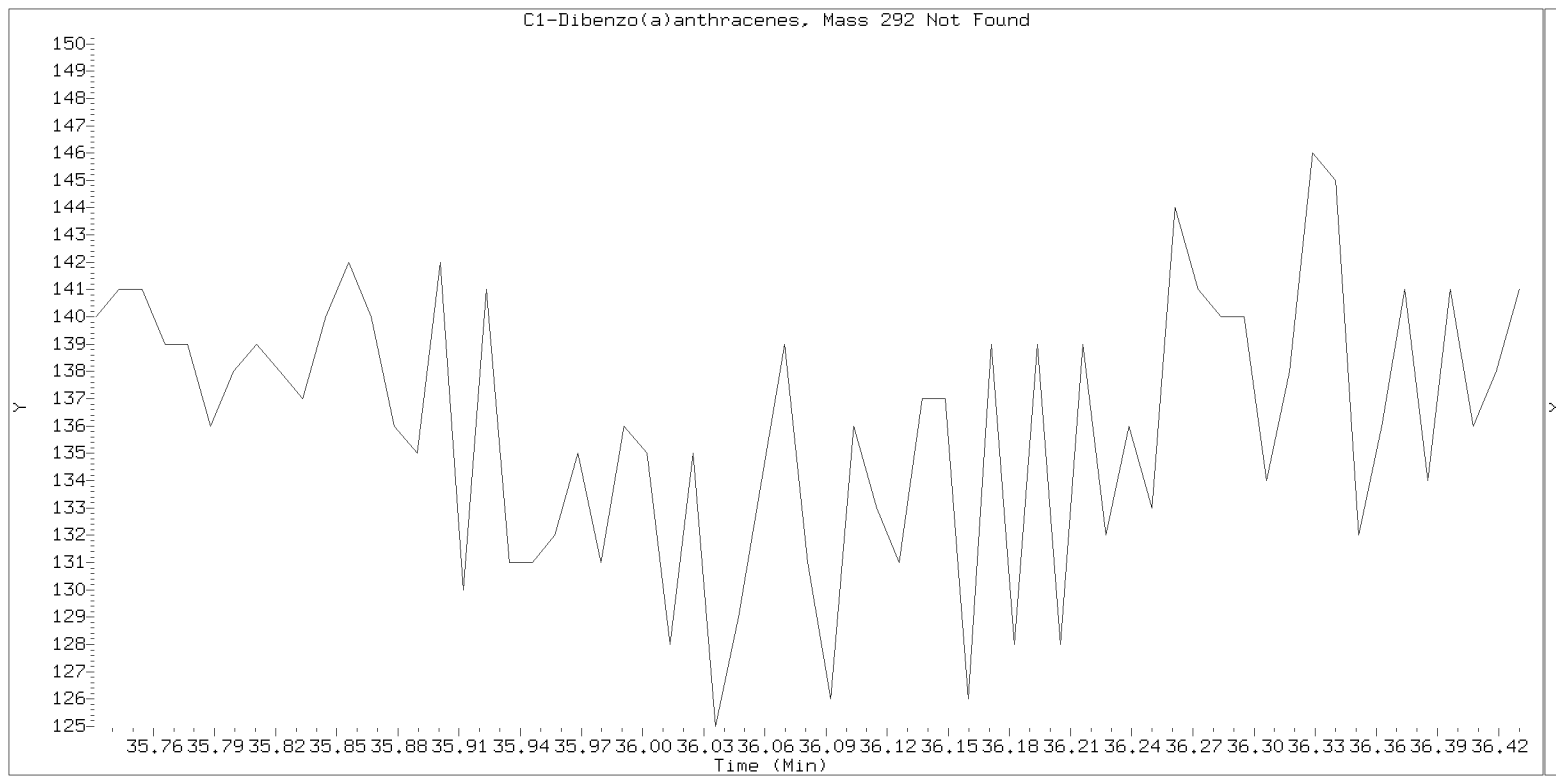
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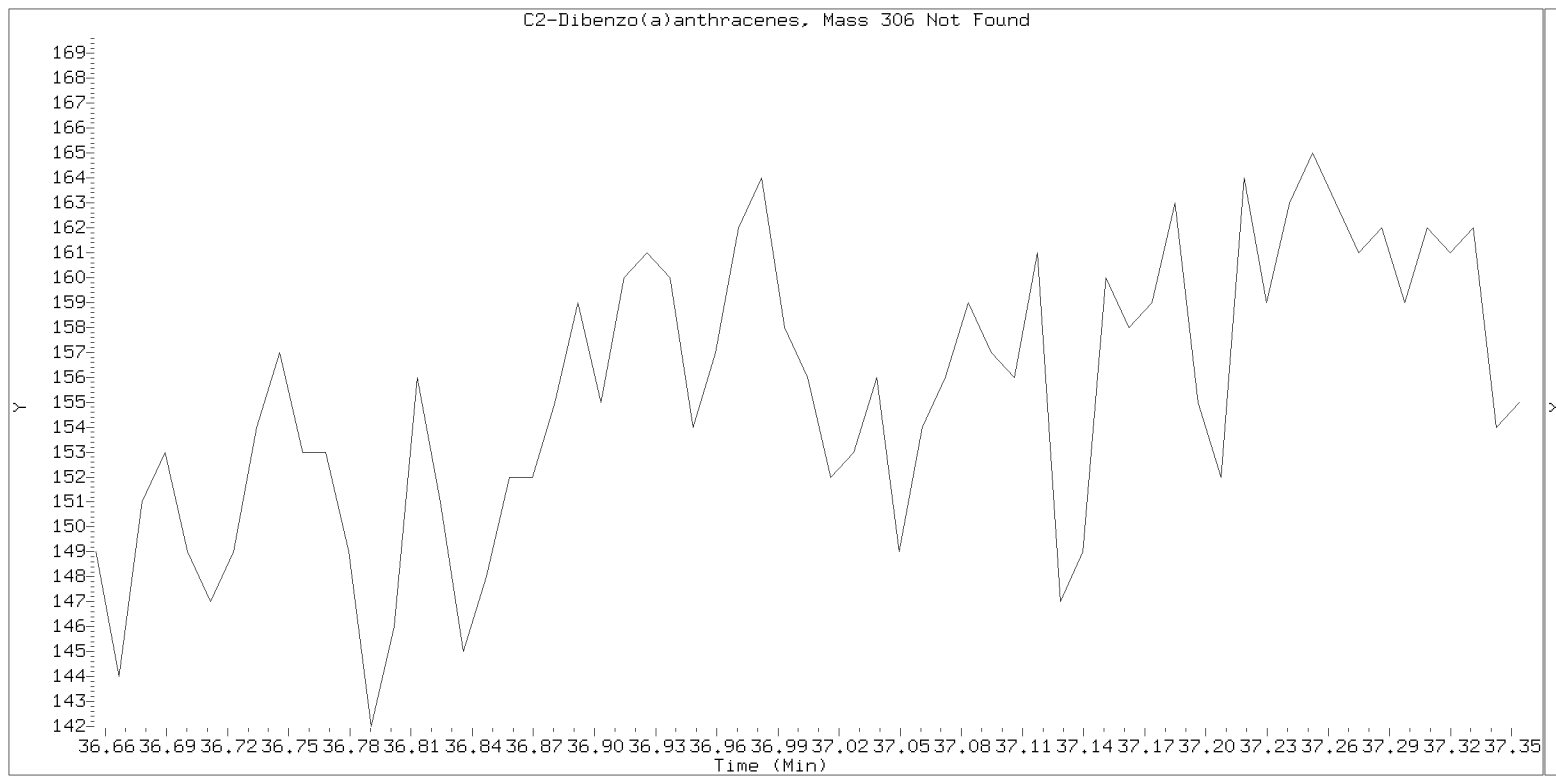
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

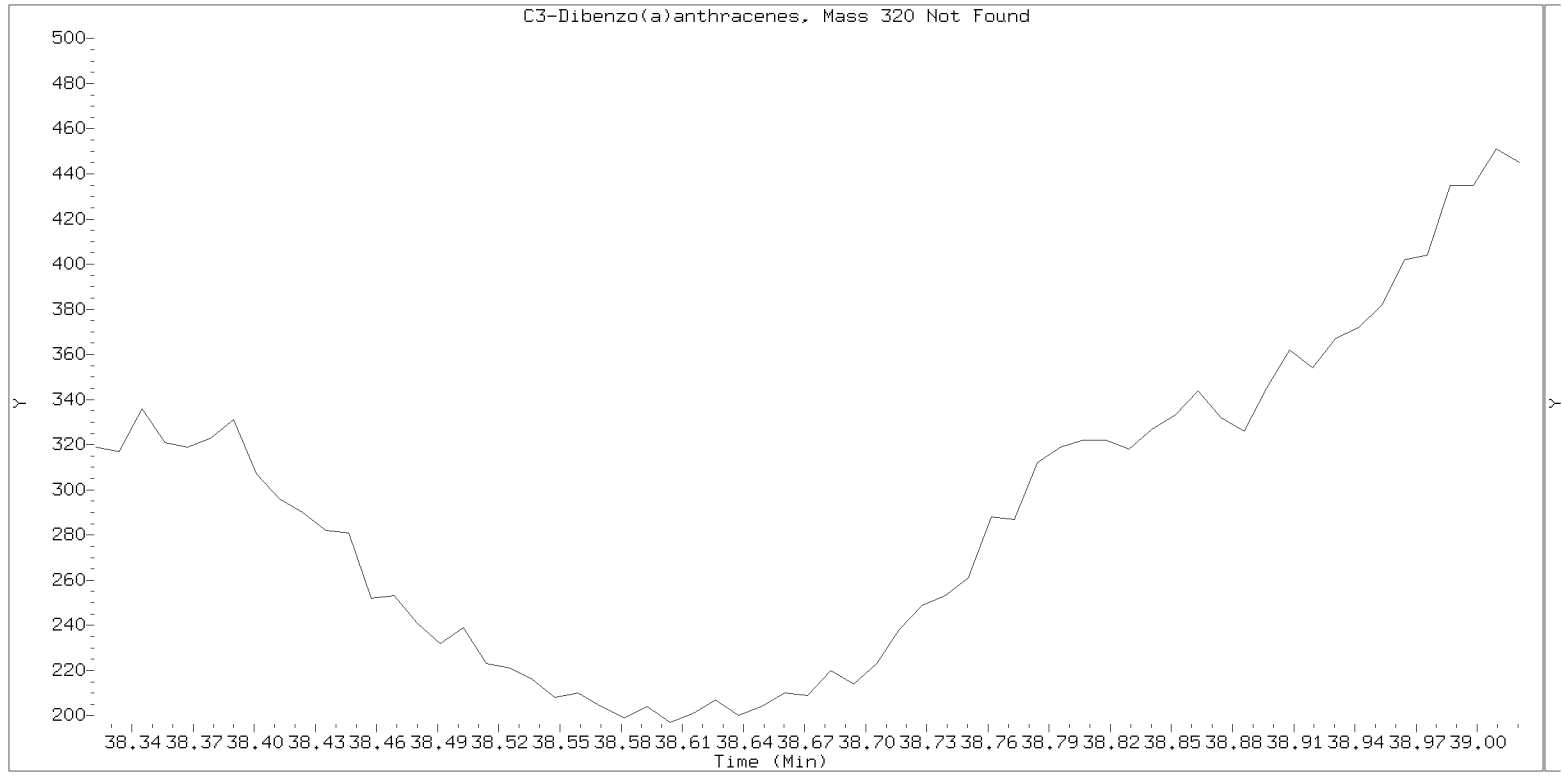
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SIM ALKYL PNA RANGE ION WINDOWS - NT1420111014S.D

Lab ID: BIJ0841-BLK2

nt14.i, SIM.b\ALKYLRANGE.m, 10-NOV-2020 22:05





LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Matrix: Water

Analyzed: 11/12/20 11:18

Batch: BIJ0840

Laboratory ID: BIJ0840-BS1

Preparation: EPA 3510C SepF

Sequence Name: LCS

Initial/Final: 100 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
Tributyltin Ion	2.23	1.58		70.7	30 - 160

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20201112.6\N1820111204.D

Date: 12-NOV-2020 11:18

Client ID:

Sample Info: B100840-BS1,

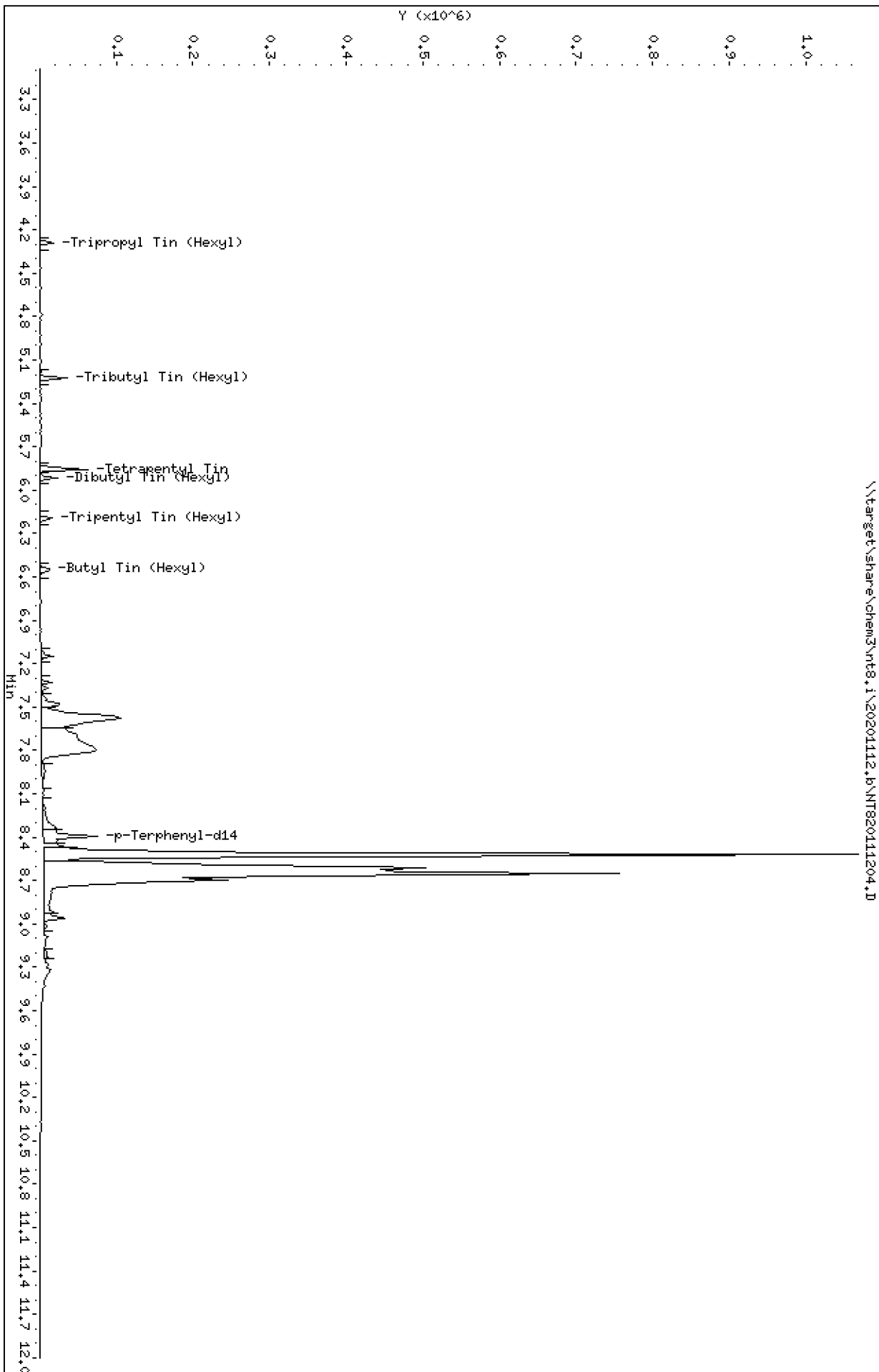
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20201112.6\N1820111204.D



Date : 12-NOV-2020 11:18

Client ID:

Instrument: nt8.i

Sample Info: BIJ0840-BS1.

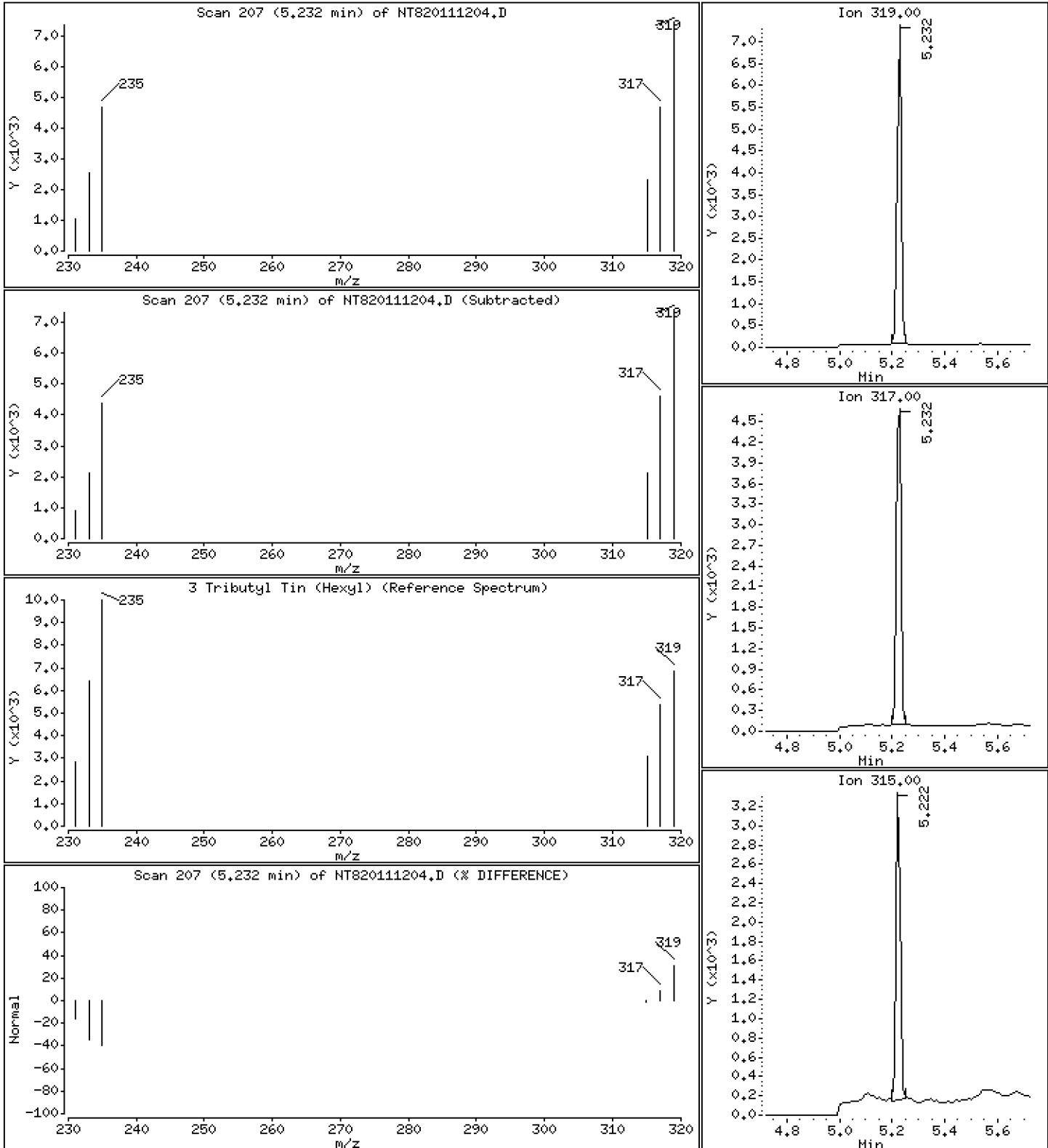
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

3 Tributyl Tin (Hexyl)

Concentration: 0.4076 ug/mL



Date : 12-NOV-2020 11:18

Client ID:

Instrument: nt8.i

Sample Info: BIJ0840-BS1.

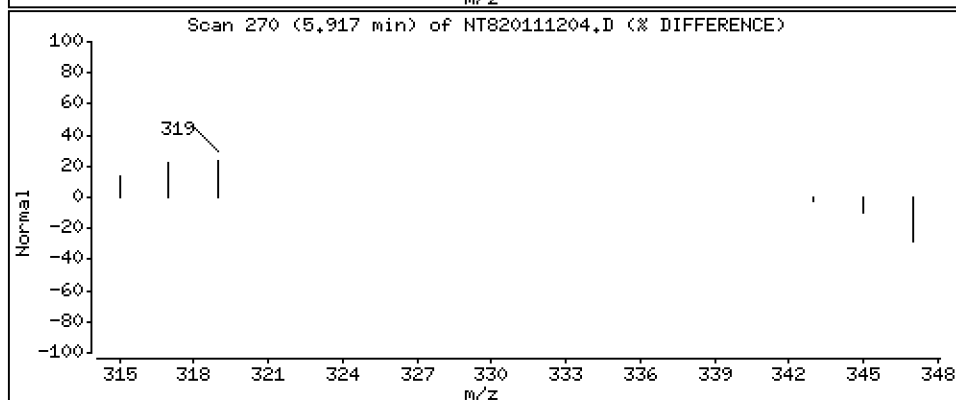
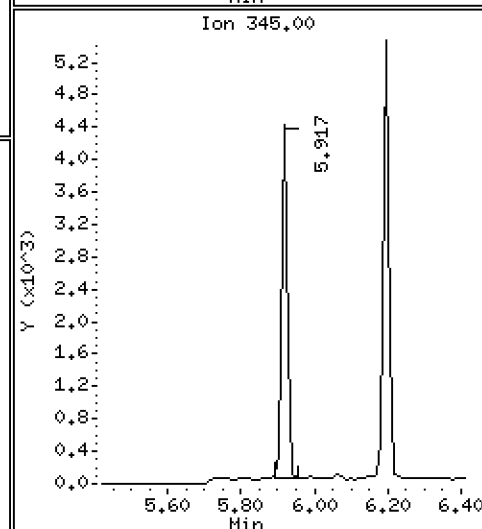
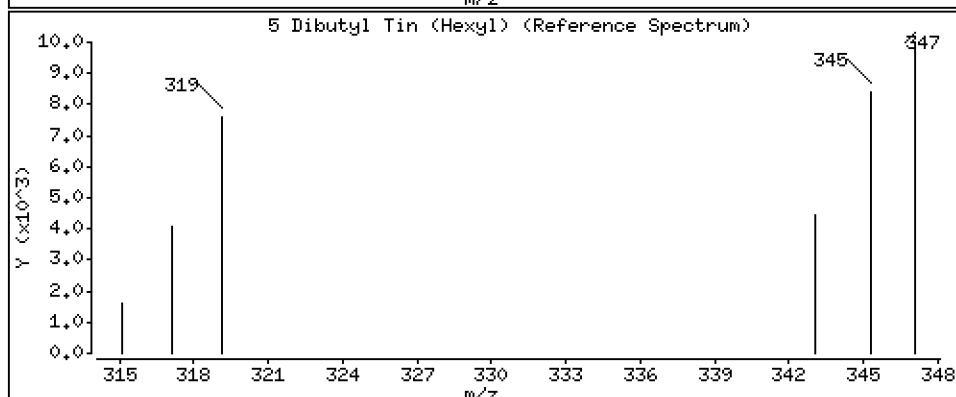
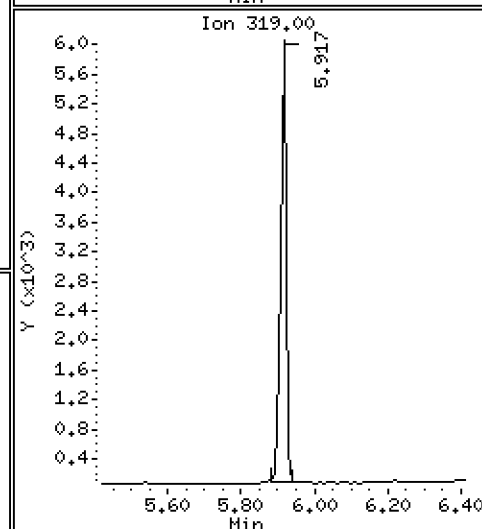
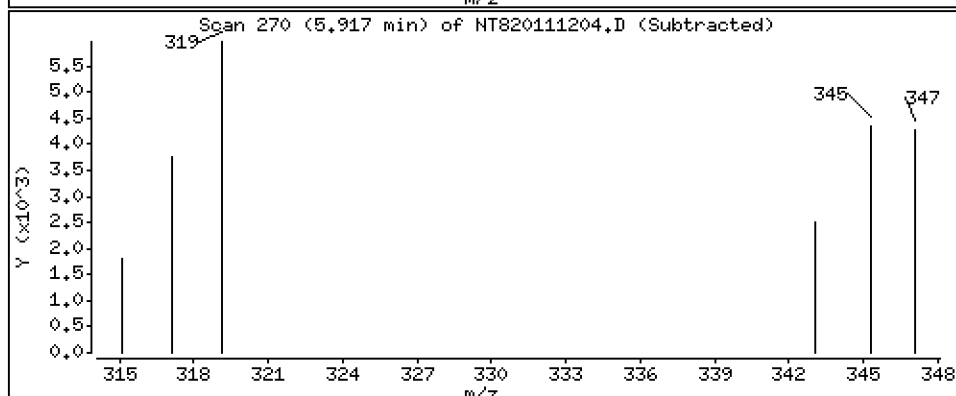
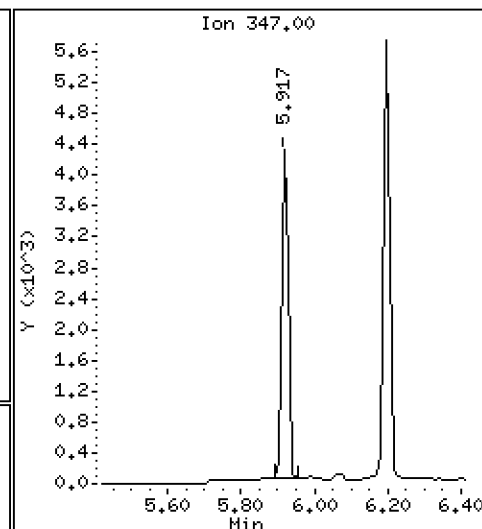
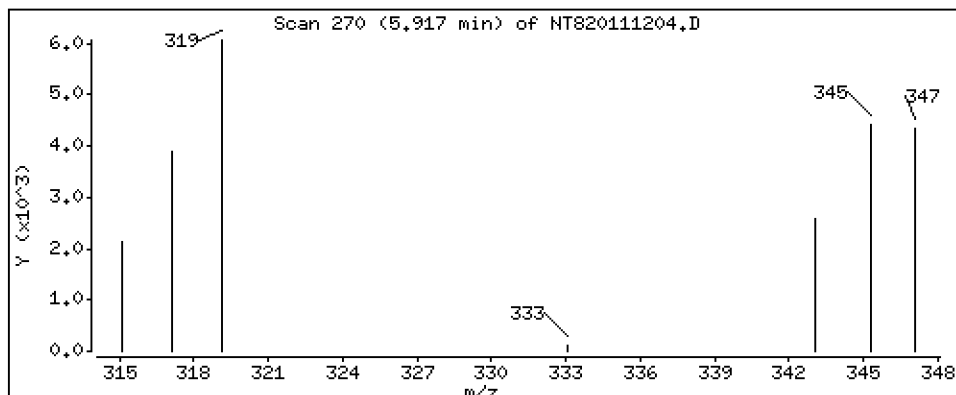
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

5 Dibutyl Tin (Hexyl)

Concentration: 0.4337 ug/mL



Date : 12-NOV-2020 11:18

Client ID:

Instrument: nt8.i

Sample Info: BIJ0840-BS1.

Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

7 Butyl Tin (Hexyl)

Concentration: 0.2692 ug/mL



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20201112.b\NT820111204.D
 Lab Smp Id: BIJ0840-BS1
 Inj Date : 12-NOV-2020 11:18
 Operator : JZ Inst ID: nt8.i
 Smp Info : BIJ0840-BS1,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Meth Date : 12-Nov-2020 12:00 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.294	4.263	(0.733)	10395	0.38627	0.3863
2 Tetrabutyl Tin	289		Compound Not Detected.					
3 Tributyl Tin (Hexyl)	319		5.231	5.221	(0.893)	7737	0.40764	0.4076
* 4 Tetrapentyl Tin	333		5.856	5.856	(1.000)	59943	2.00000	
5 Dibutyl Tin (Hexyl)	347		5.916	5.916	(0.705)	5349	0.43366	0.4337
\$ 6 Tripentyl Tin (Hexyl)	347		6.194	6.194	(0.738)	6632	0.42679	0.4268
7 Butyl Tin (Hexyl)	347		6.557	6.557	(0.781)	4886	0.26925	0.2692
* 8 p-Terphenyl-d14	244		8.396	8.396	(1.000)	44757	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 12-NOV-2020
 Lab File ID: NT820111204.D Calibration Time: 10:22
 Lab Smp Id: BIJ0840-BS1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	59943	9.45
8 p-Terphenyl-d14	45248	22624	90496	44757	-1.09

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	5.86	5.36	6.36	5.86	0.00
8 p-Terphenyl-d14	8.40	7.90	8.90	8.40	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 - NT820111204.D

Lab ID: BIJ0840-BS1

nt8.i, 20201112.b\TBT200730.m, 12-NOV-2020 11:18

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.733	0.728	0.0053	Tripropyl Tin (Hexyl)

RRT check based on Ccal File: NT820111202.D

On Column LOD for nt8.i, 20201112.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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



LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Matrix: Water

Analyzed: 11/10/20 22:52

Batch: BIJ0841

Laboratory ID: BIJ0841-BS1

Preparation: EPA 3520C (Liq Liq)

Sequence Name: LCS

Initial/Final: 500 mL / 0.5 mL

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
trans-Decalin	3.00	0.302	*	10.1 *	30 - 160
cis-Decalin	3.00	0.344	*	11.5 *	30 - 160
Naphthalene	3.00	1.84		61.3	37 - 120
1-Methylnaphthalene	3.00	1.75		58.2	30 - 160
2-Methylnaphthalene	3.00	1.79		59.5	34 - 120
Biphenyl	3.00	1.85		61.7	30 - 160
2,6-Dimethylnaphthalene	3.00	1.67		55.6	30 - 160
Acenaphthylene	3.00	2.02		67.4	32 - 120
Acenaphthene	3.00	1.99		66.4	40 - 120
Dibenzofuran	3.00	2.10		69.9	44 - 120
2,3,5-Trimethylnaphthalene	3.00	2.04		68.0	30 - 160
Fluorene	3.00	2.17		72.3	43 - 120
Benzo(b)thiophene	3.00	1.90		63.4	30 - 160
Phenanthrene	3.00	2.28		76.0	43 - 120
Anthracene	3.00	2.28		75.9	30 - 120
Carbazole	3.00	2.58		85.9	30 - 160
1-Methylphenanthrene	3.00	2.66		88.6	30 - 160
Fluoranthene	3.00	2.72		90.5	46 - 138
Dibenzothiophene	3.00	2.43		81.1	30 - 160
Pyrene	3.00	2.69		89.8	47 - 124
Benzo(a)anthracene	3.00	3.43	Q	114	38 - 134
Chrysene	3.00	2.91		96.9	52 - 120
Benzo(b)fluoranthene	3.00	3.25		108	35 - 127
Benzo(j)fluoranthene	3.00	2.94		98.0	49 - 120
Benzo(k)fluoranthene	3.00	3.25		108	37 - 129
Benzo(a)fluoranthene, Total	9.00	9.04		100	46 - 120
Benzo(e)pyrene	3.00	2.87		95.6	30 - 160
Benzo(a)pyrene	3.00	2.77		92.5	24 - 120
Indeno(1,2,3-cd)pyrene	3.00	2.79		92.9	32 - 123
Dibenzo(a,h)anthracene	3.00	3.05		102	30 - 127
Benzo(g,h,i)perylene	3.00	2.96		98.8	26 - 124
Perylene	3.00	2.67		88.9	30 - 160
Benzo(b)naphtho(2,1-d)thiophene	3.00	2.57		85.7	30 - 160

* Indicates values outside of QC limits



Analytical Resources, Incorporated
Analytical Chemists and Consultants

LCS / LCS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Matrix: Water

Analyzed: 11/10/20 22:52

Batch: BIJ0841

Laboratory ID: BIJ0841-BS1

Preparation: EPA 3520C (Liq Liq)

Sequence Name: LCS

Initial/Final: 500 mL / 0.5 mL

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20201110,6\NT1420111015.D

Date : 10-NOV-2020 22:52

Client ID:

Sample Info: B1J0841-BS1

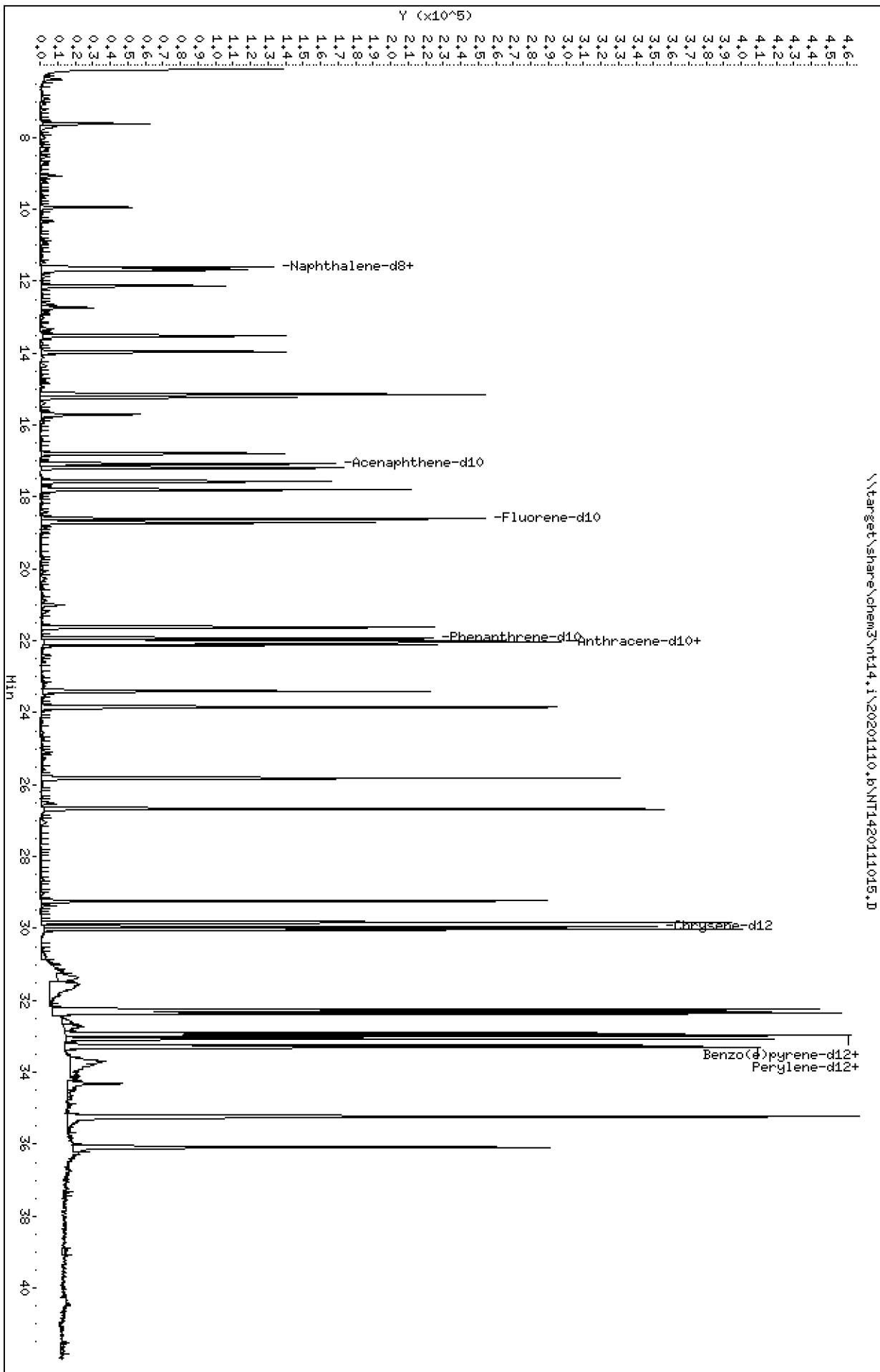
Column phase: Rxi-17S11 MS

Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,1\20201110,6\NT1420111015.D



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

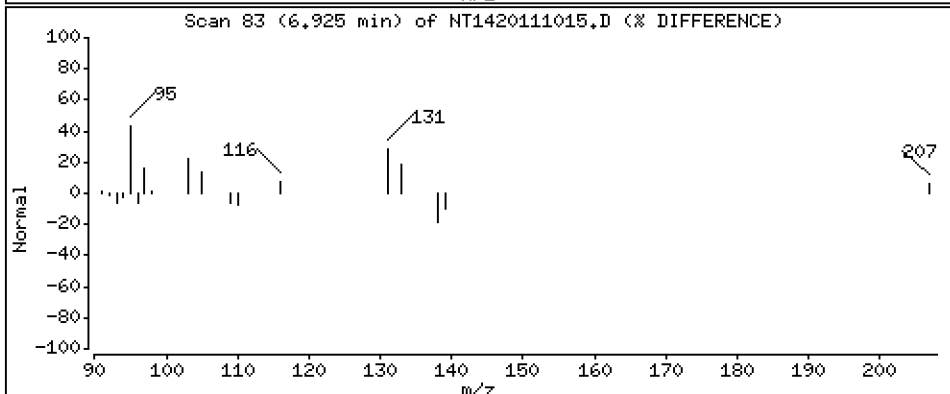
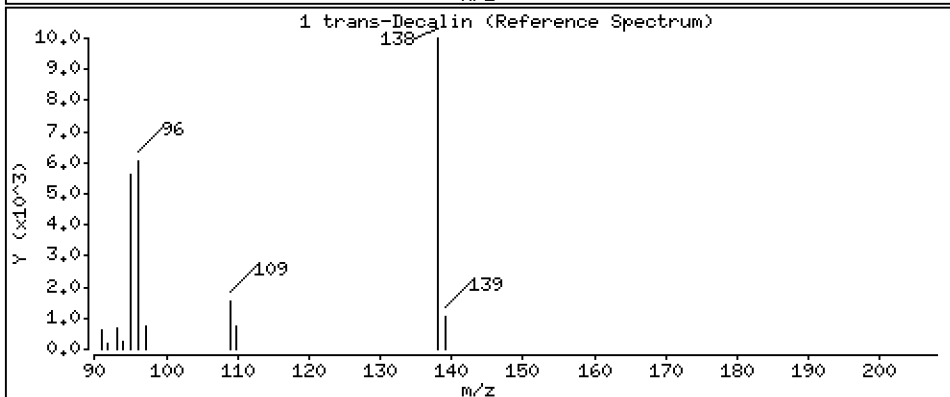
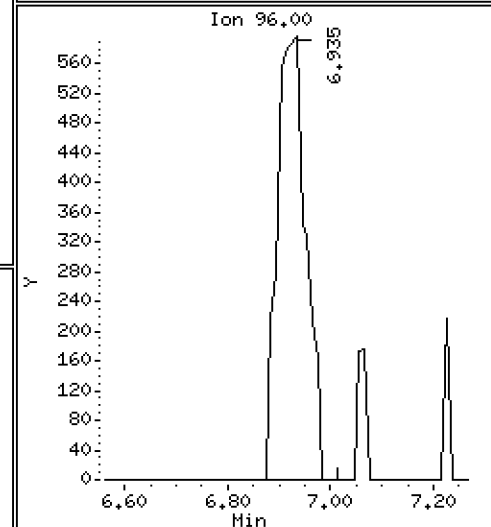
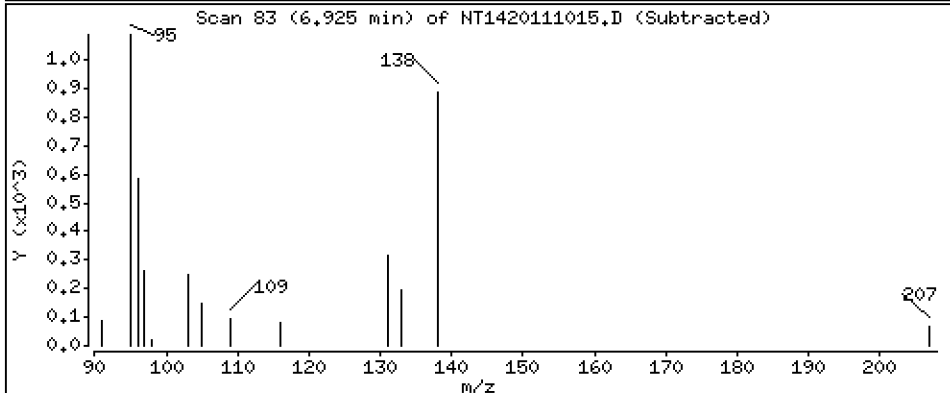
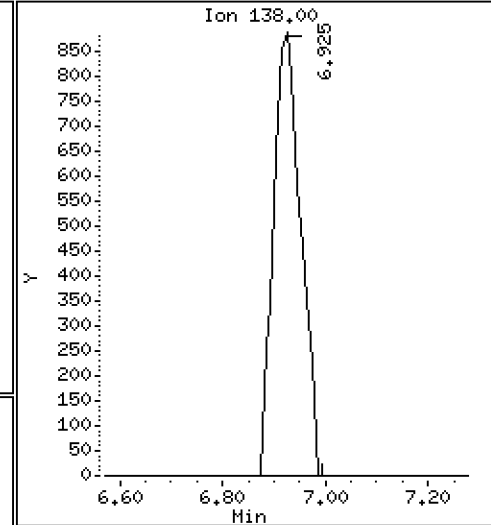
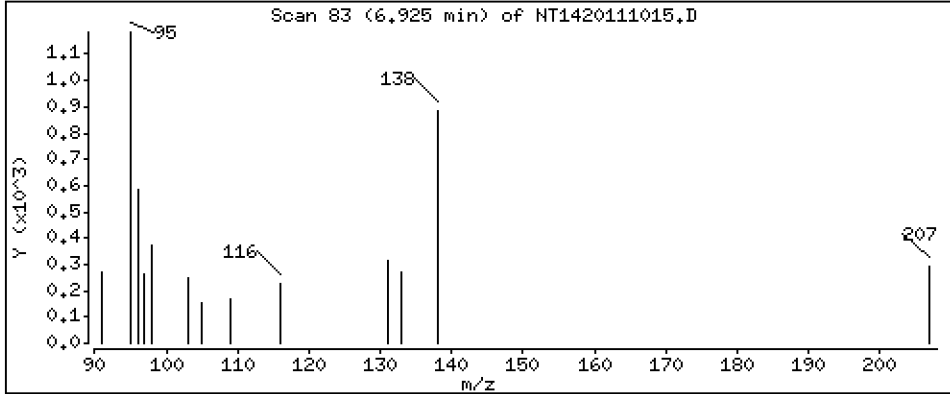
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

1 trans-Decalin

Concentration: 0,3022 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

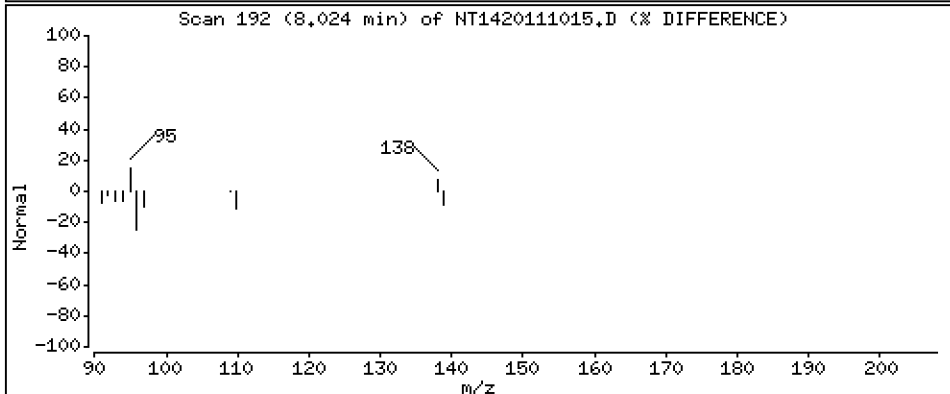
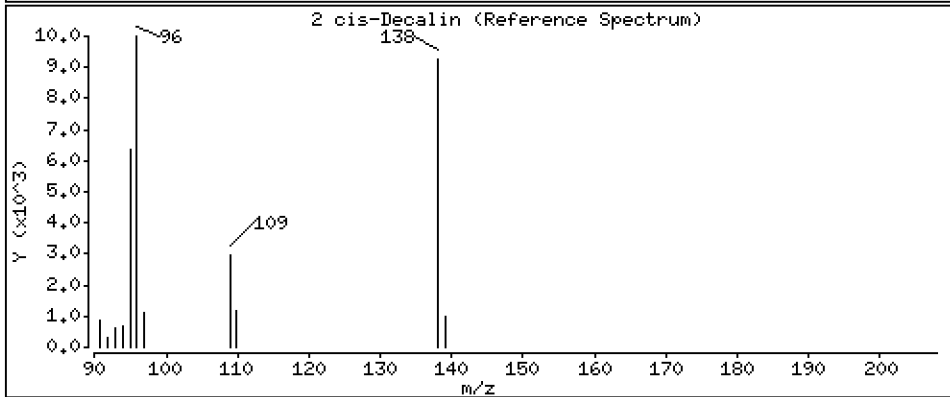
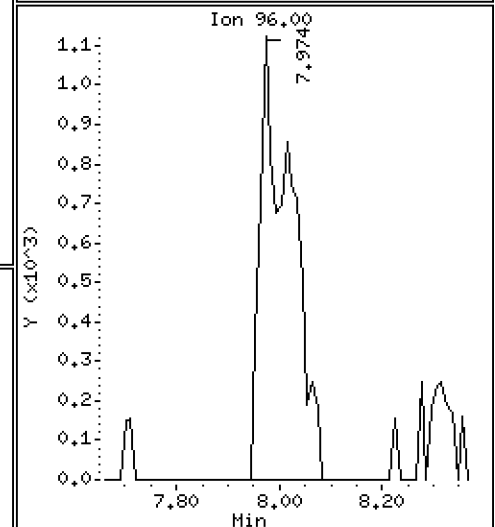
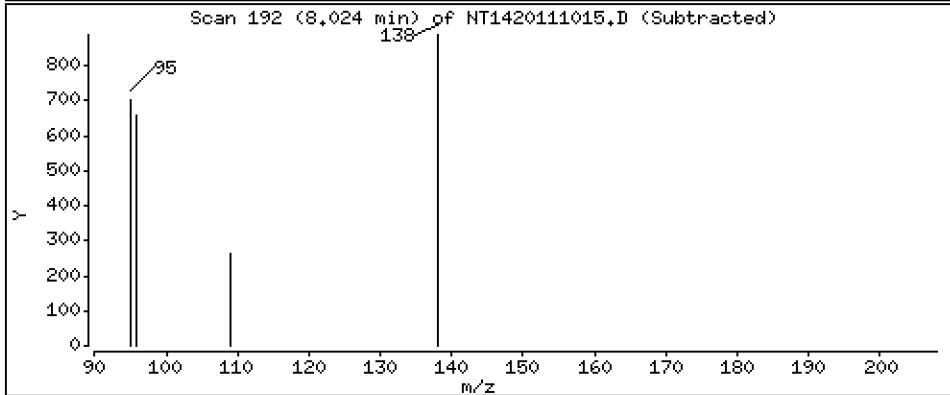
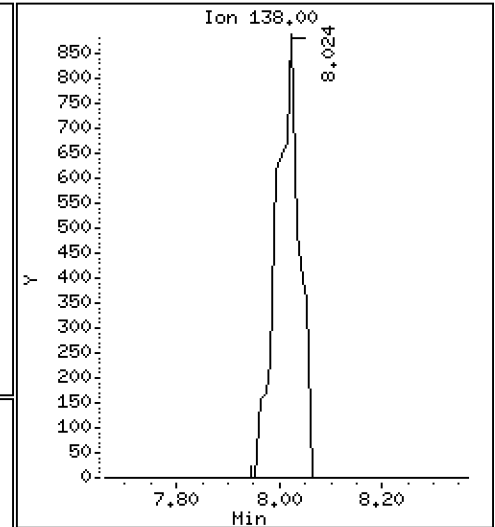
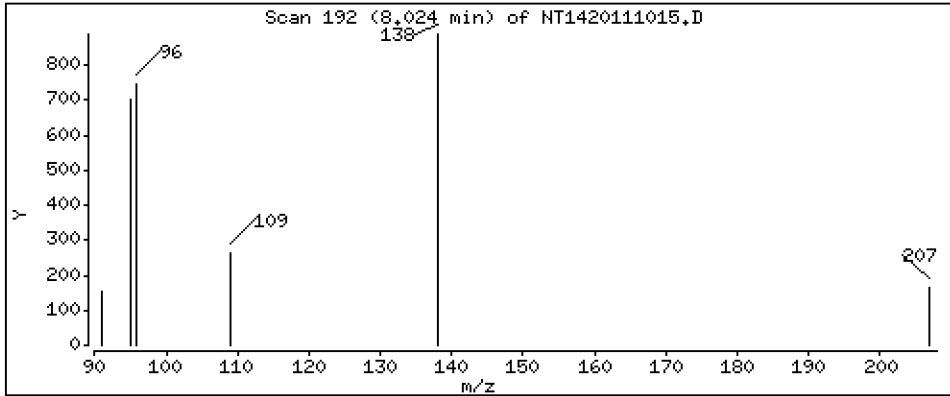
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

2 cis-Decalin

Concentration: 0,3440 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

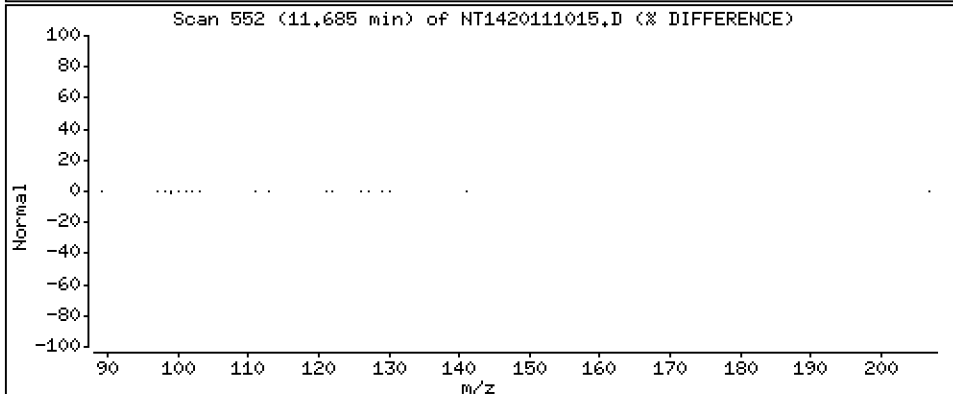
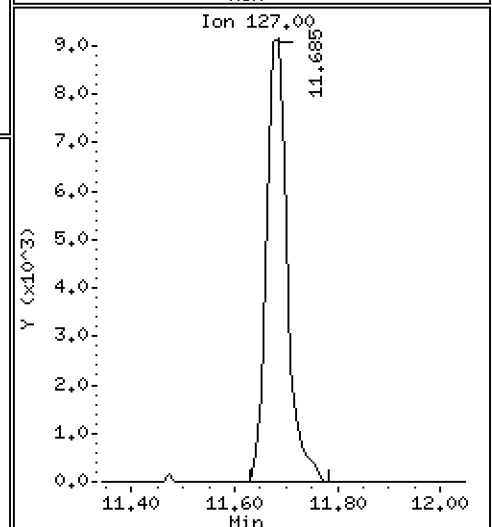
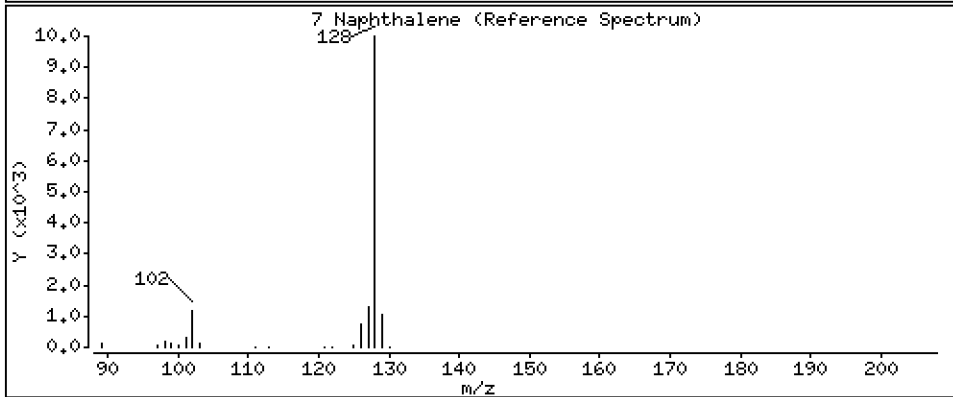
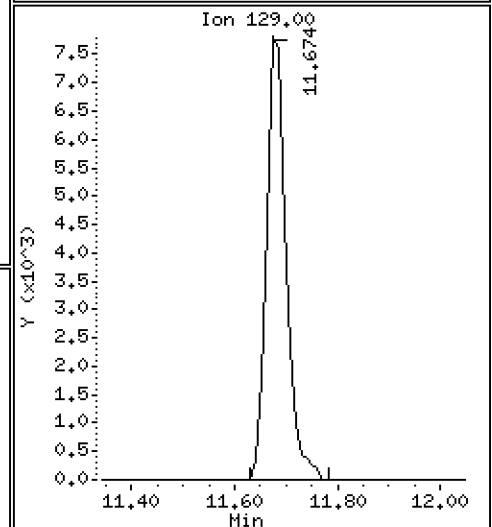
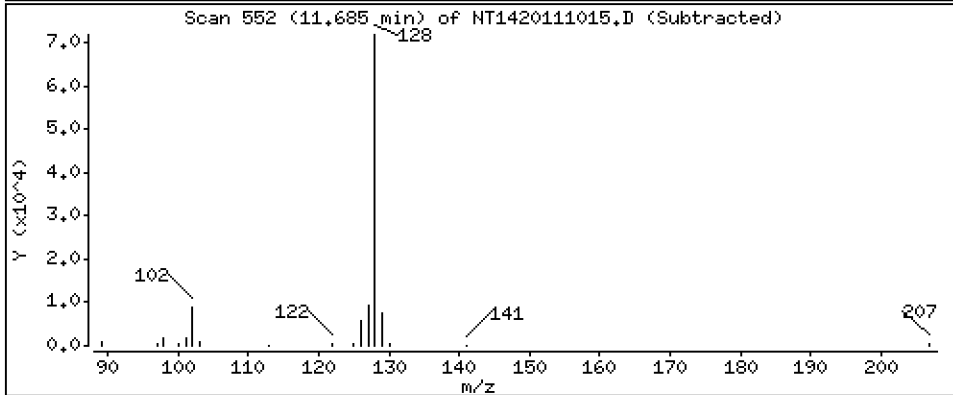
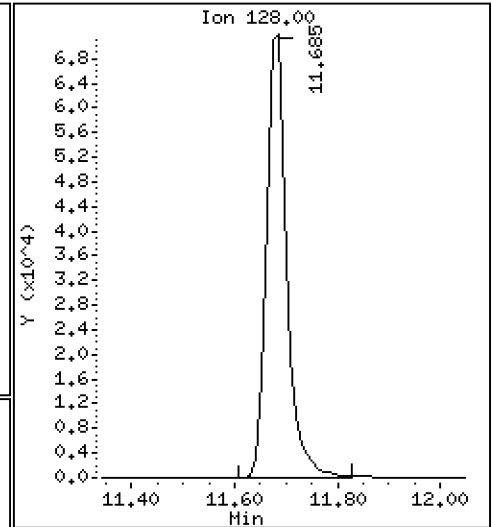
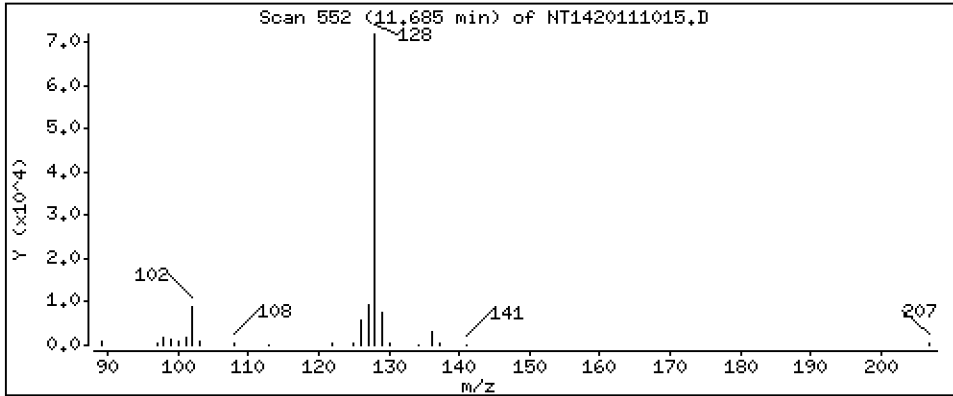
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

7 Naphthalene

Concentration: 1,840 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

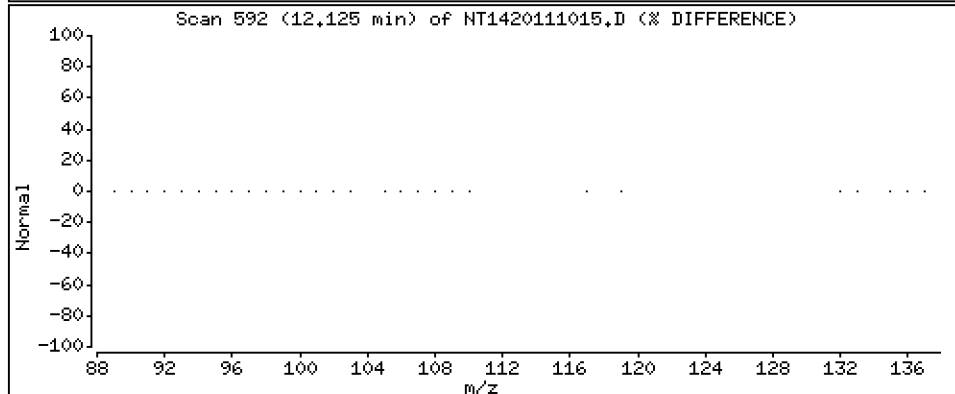
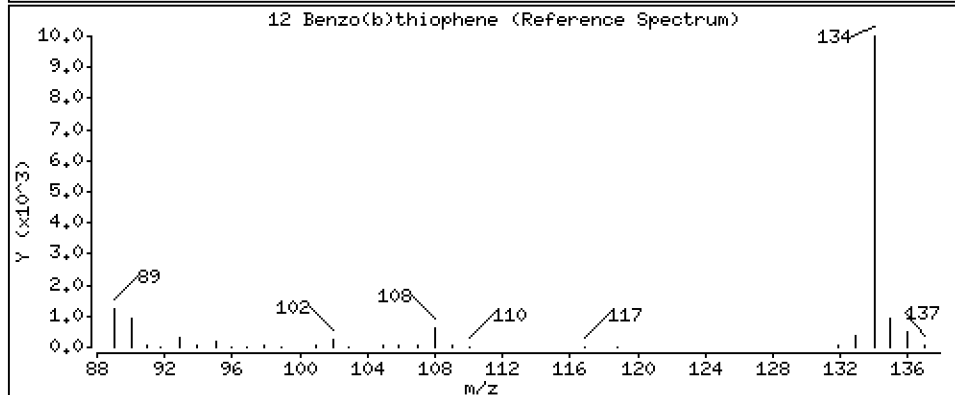
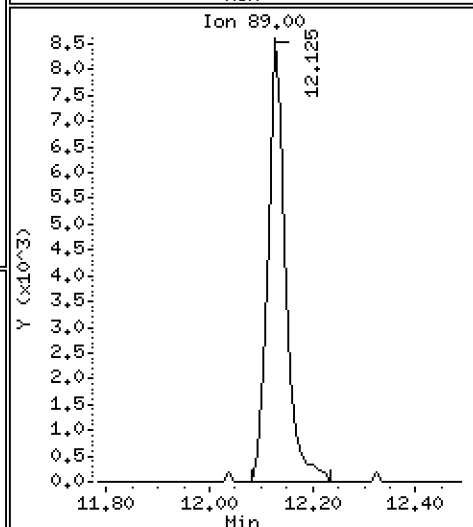
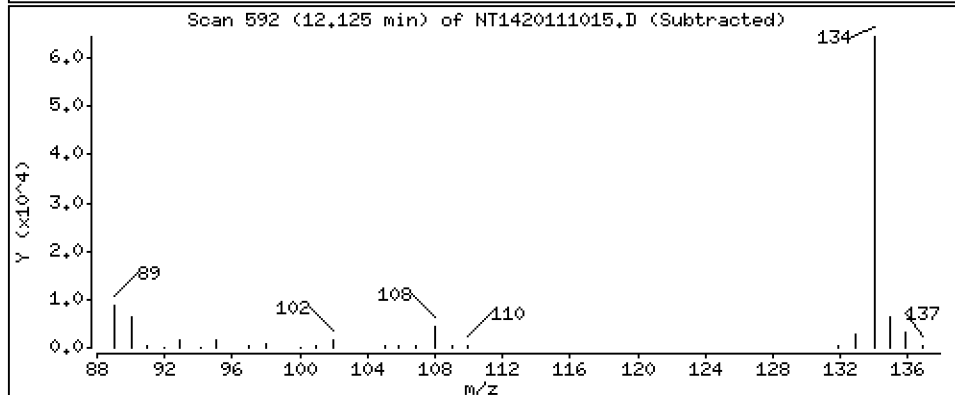
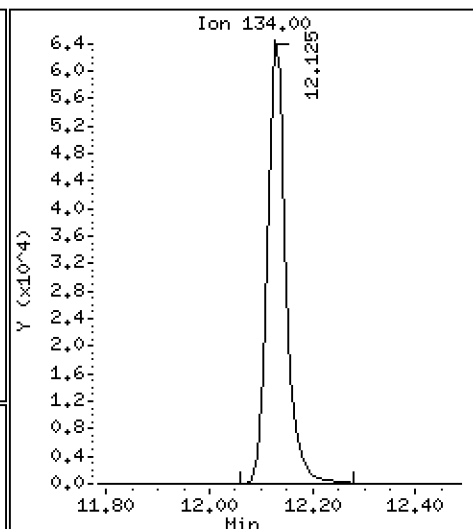
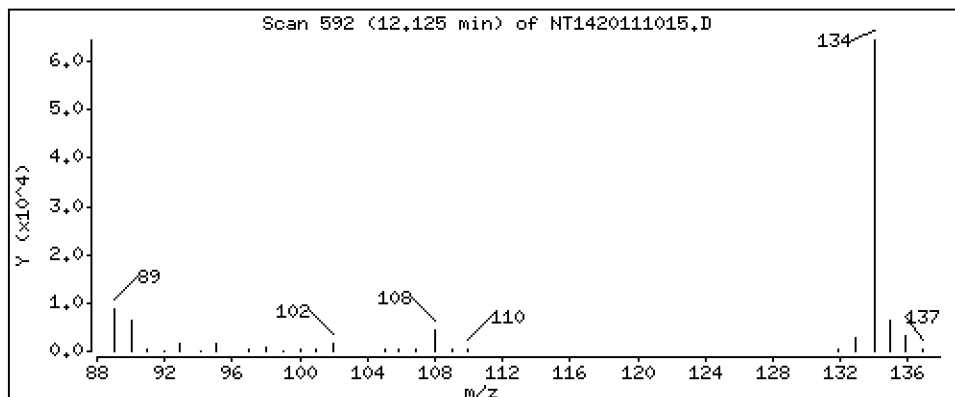
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

12 Benzo(b)thiophene

Concentration: 1,902 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

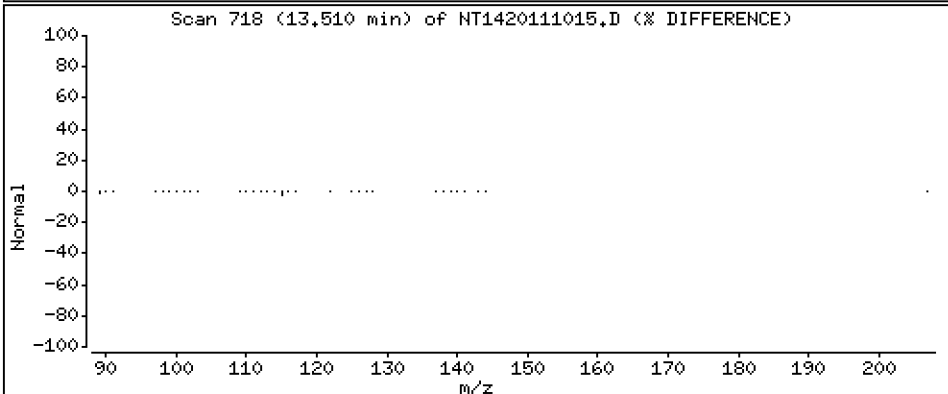
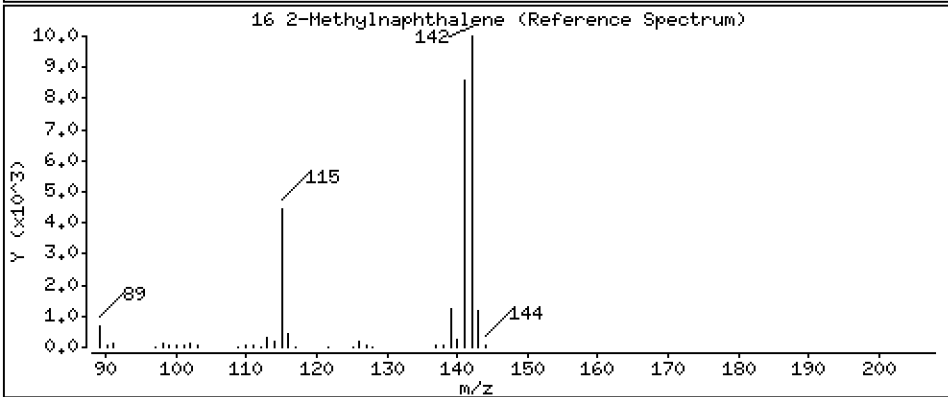
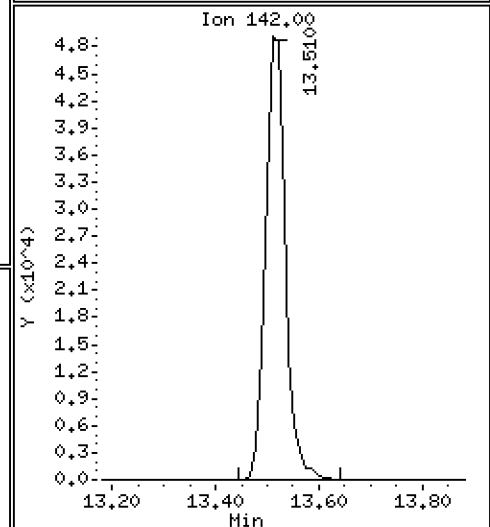
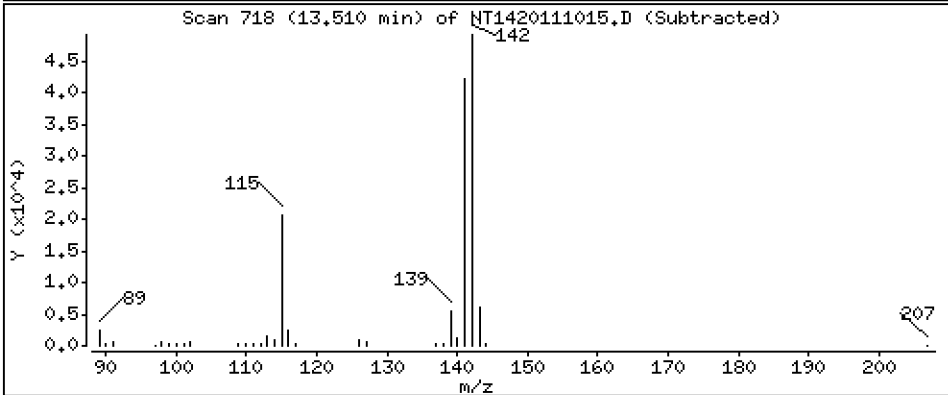
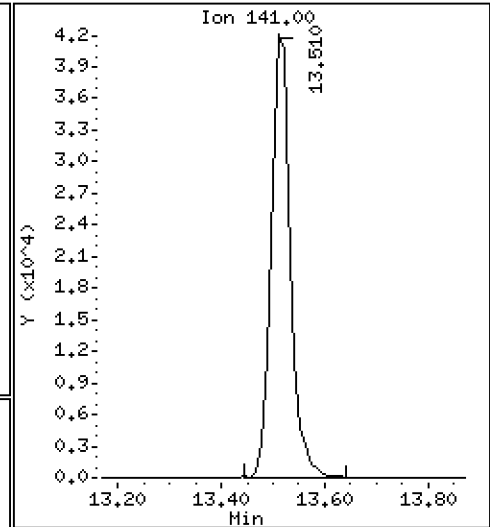
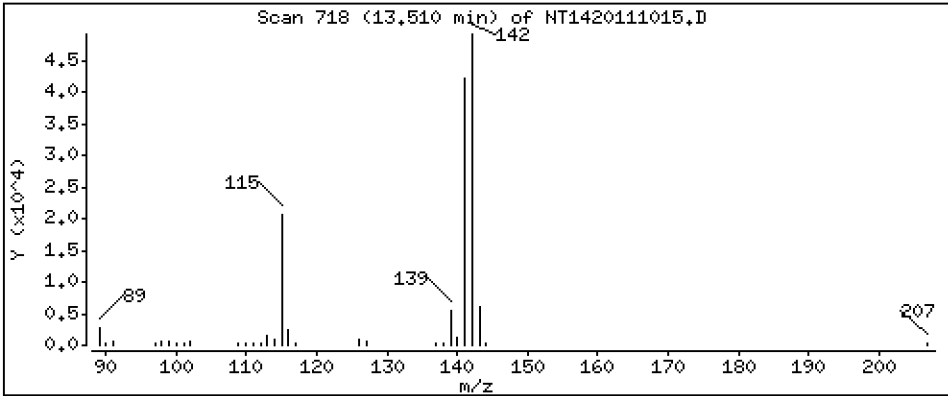
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

16 2-Methylnaphthalene

Concentration: 1,786 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

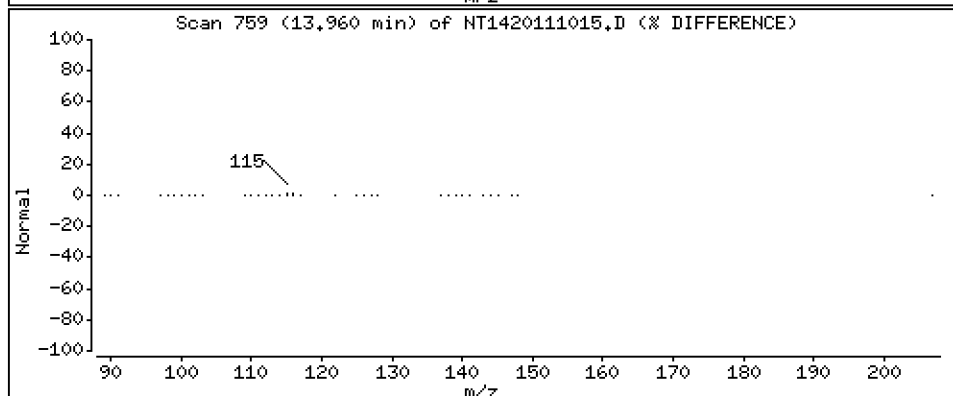
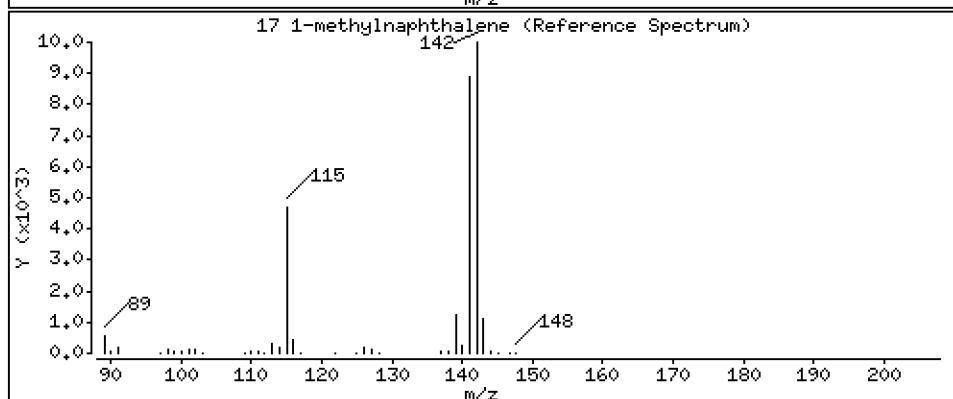
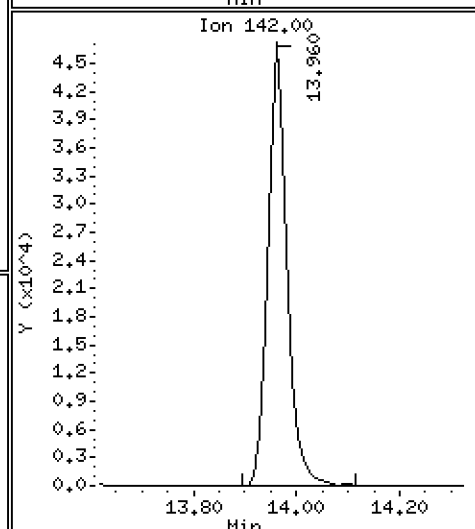
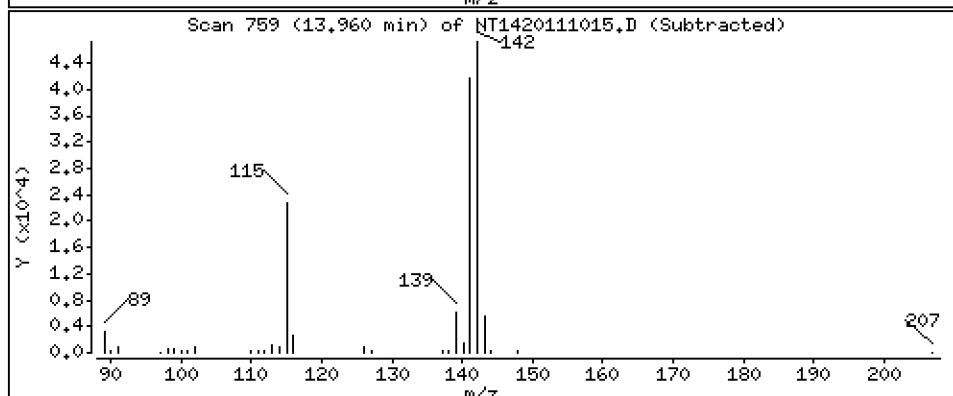
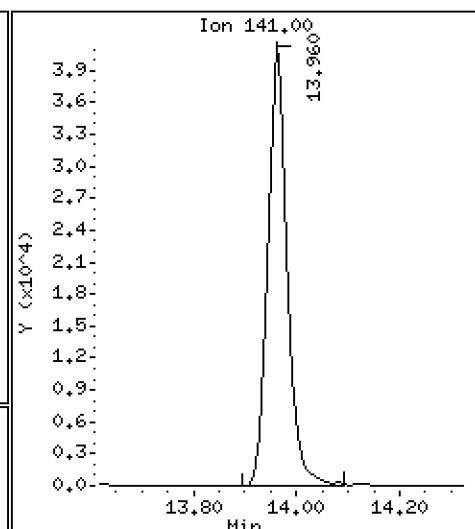
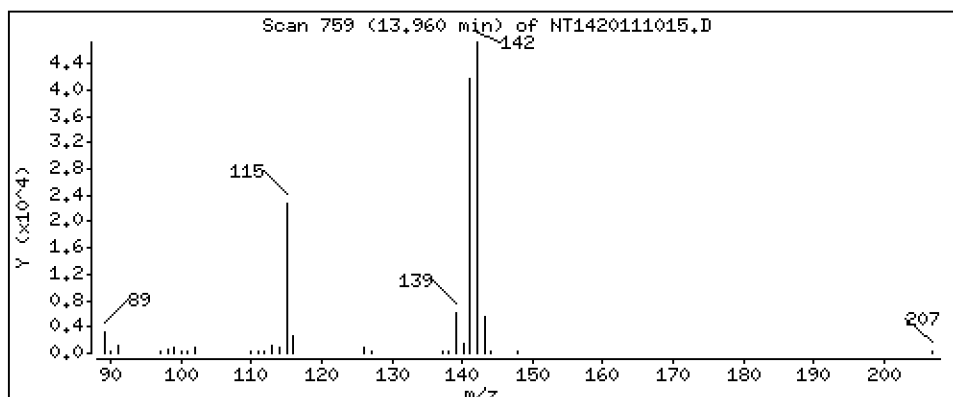
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

17 1-methylnaphthalene

Concentration: 1,746 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

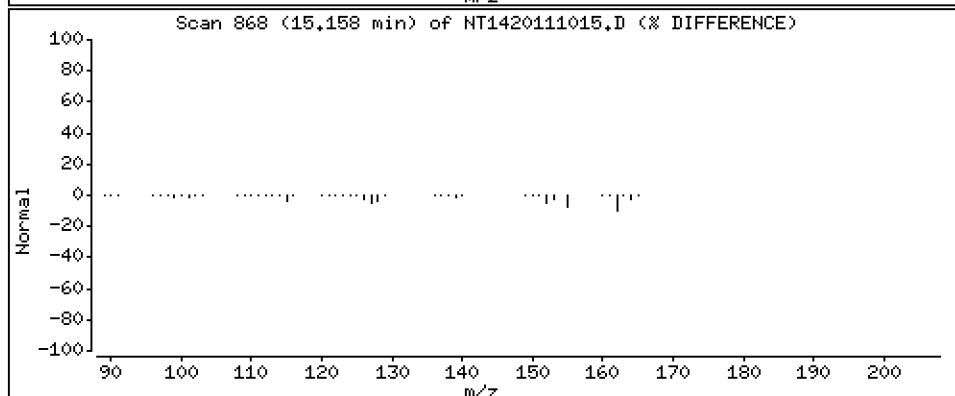
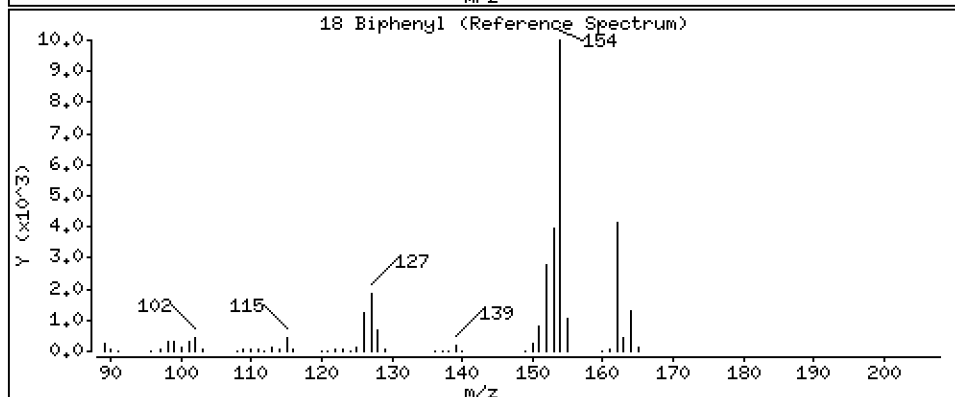
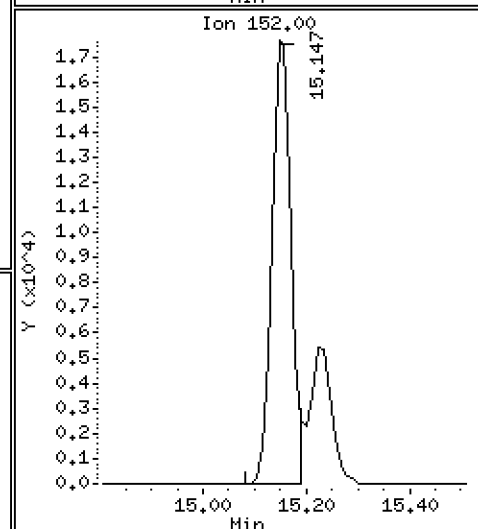
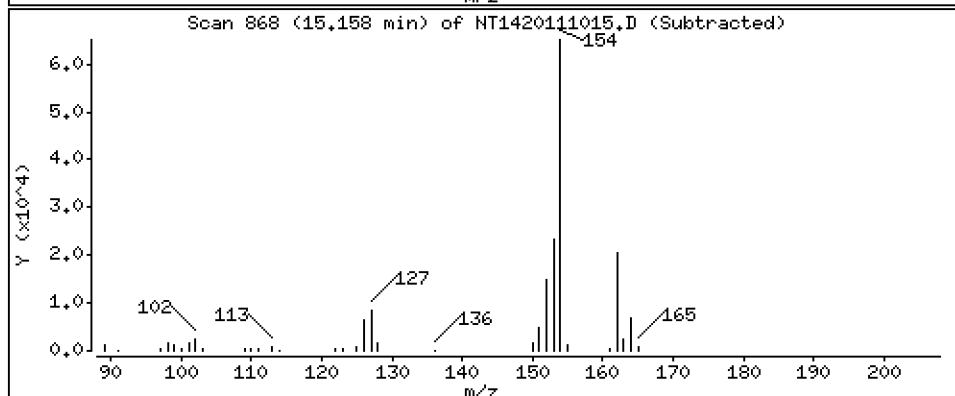
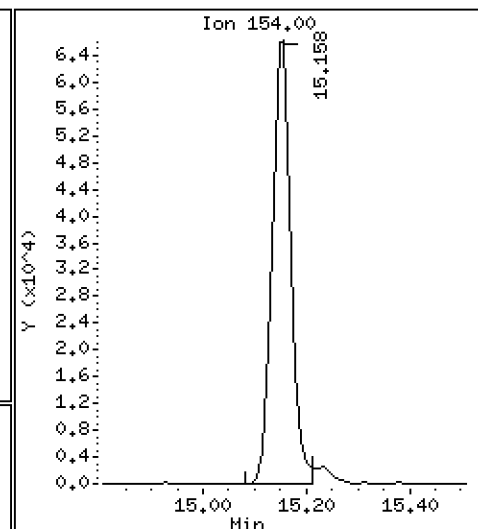
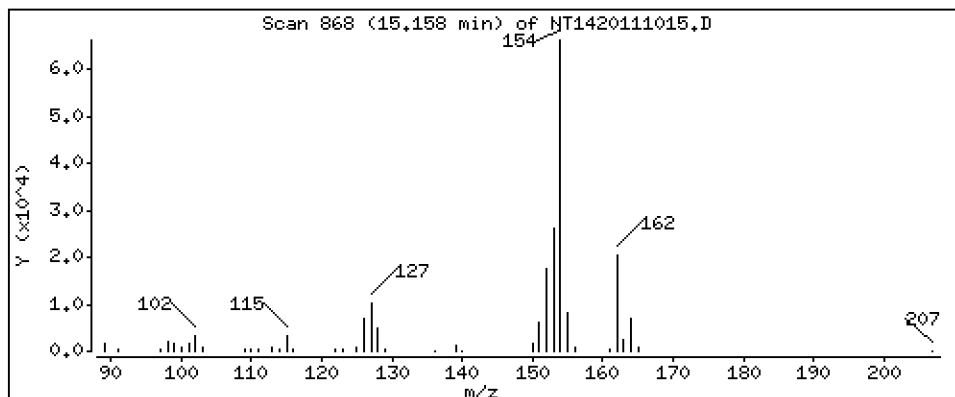
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

18 Biphenyl

Concentration: 1,852 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

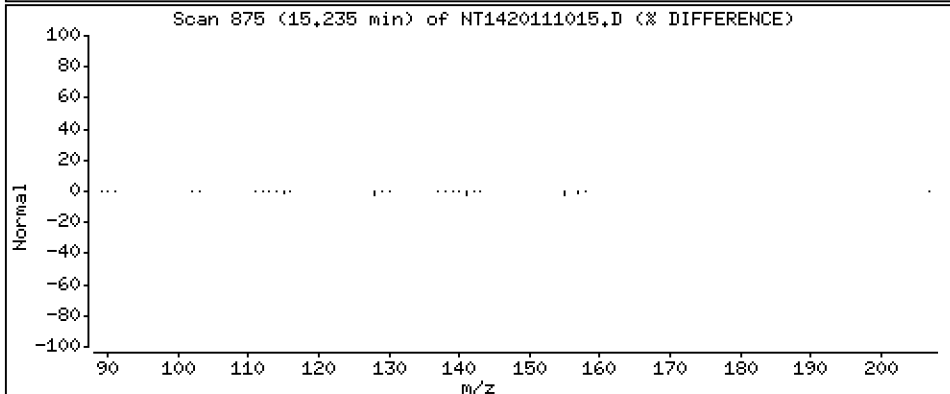
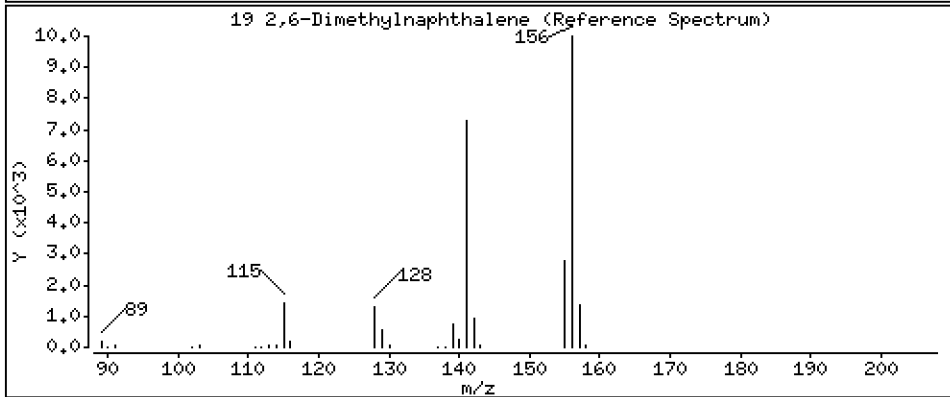
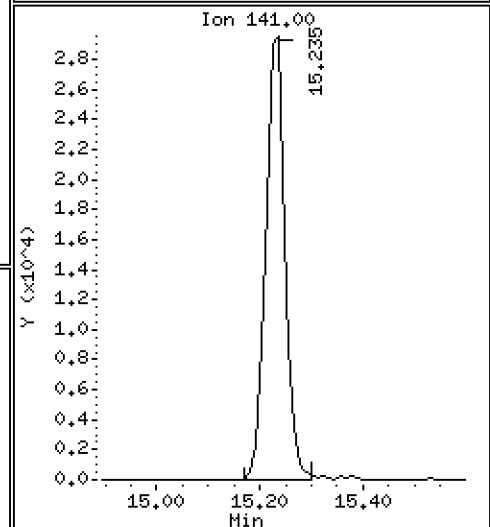
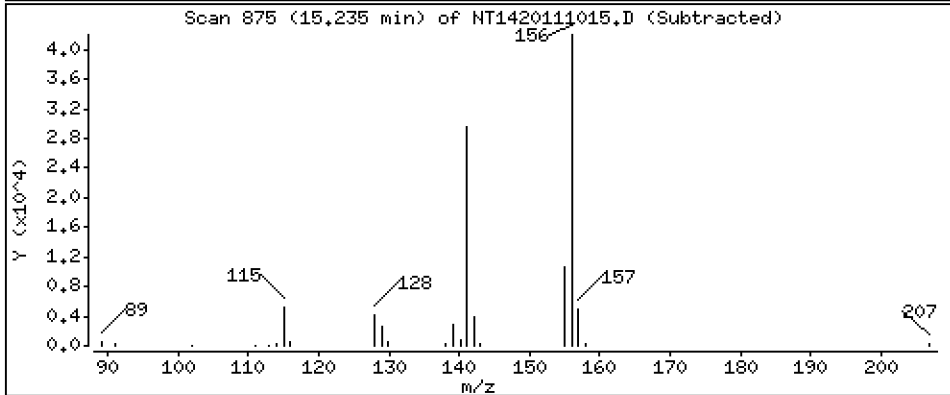
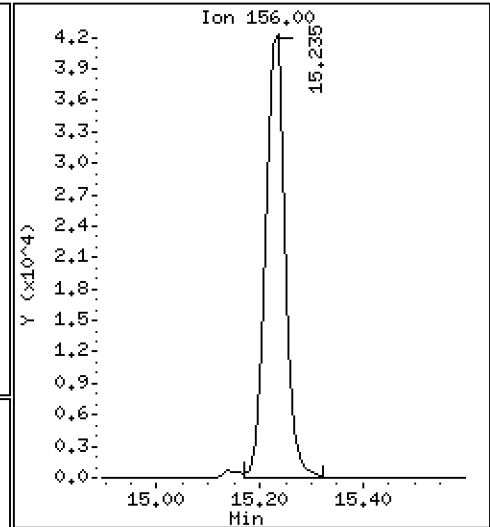
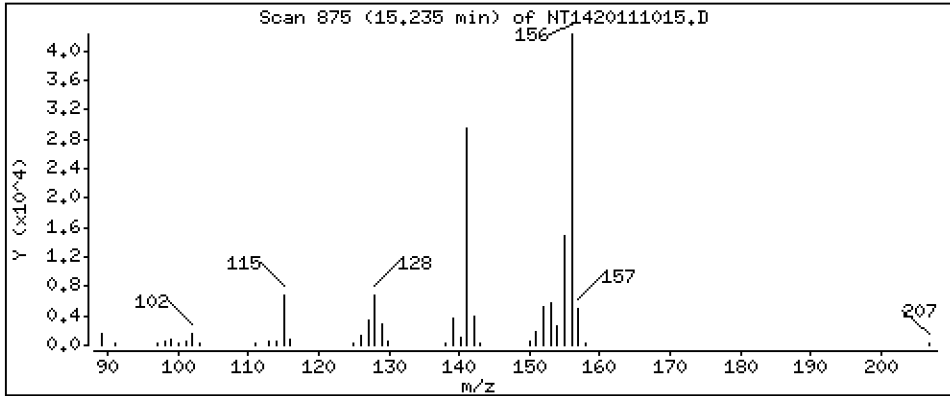
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

19 2,6-Dimethylnaphthalene

Concentration: 1,668 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

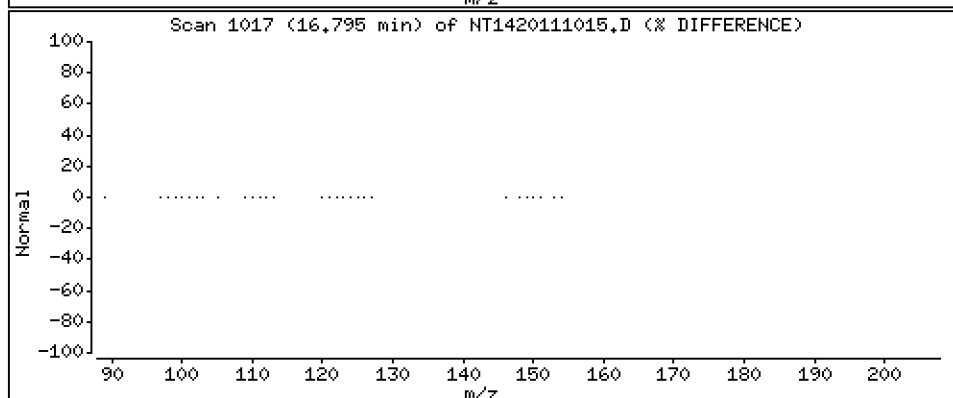
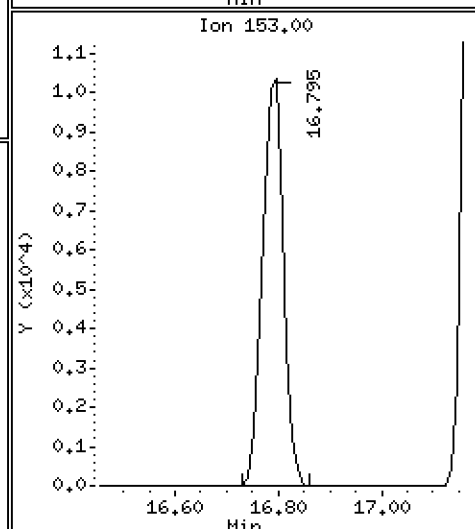
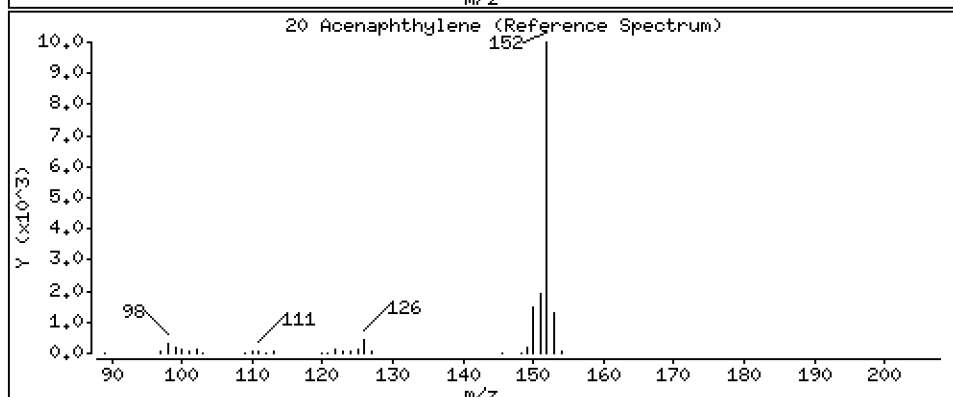
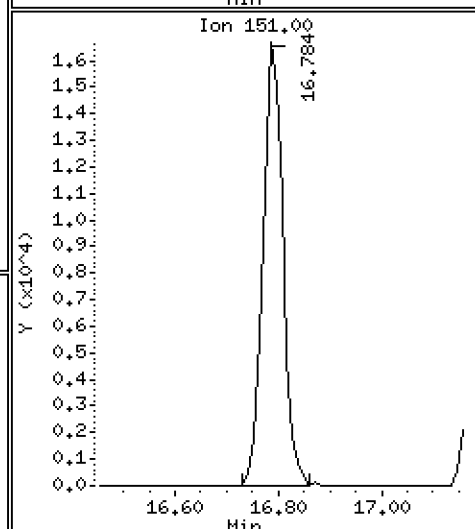
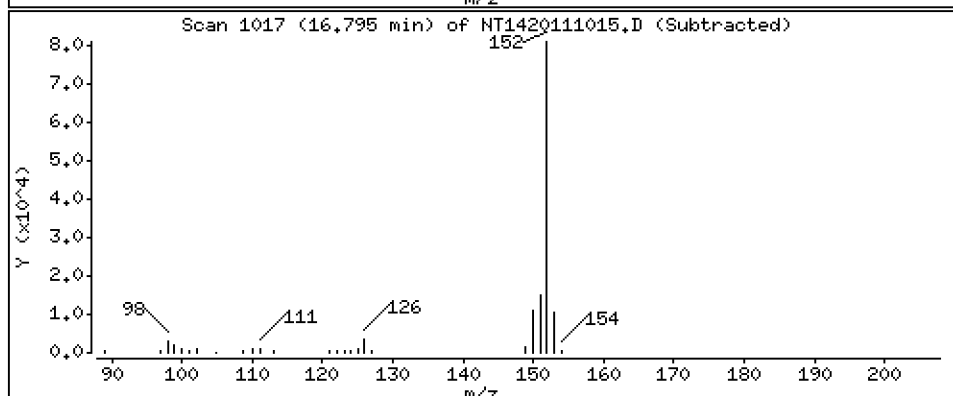
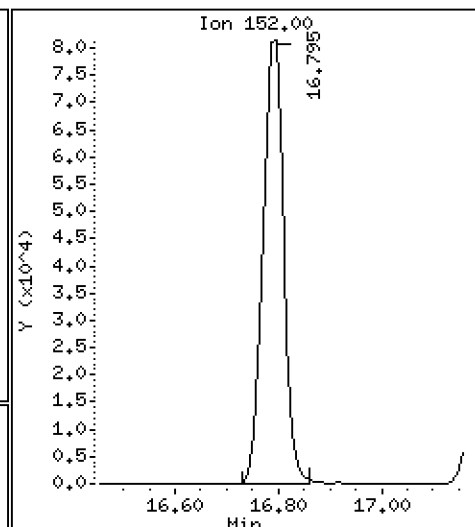
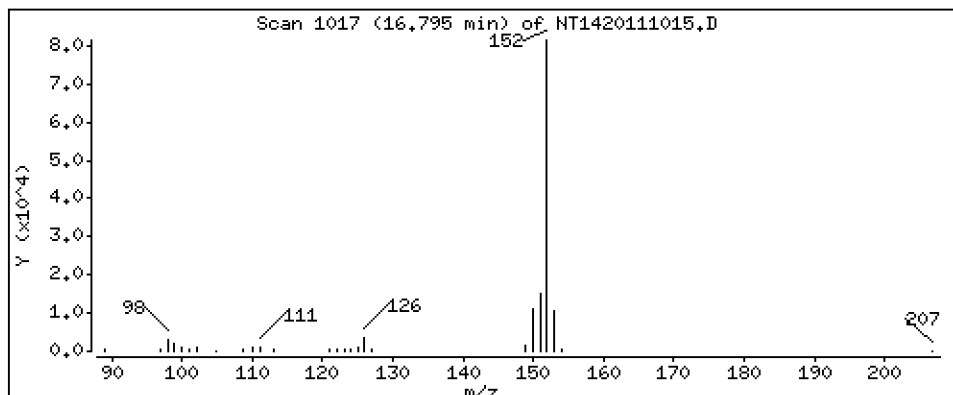
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

20 Acenaphthylene

Concentration: 2,022 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

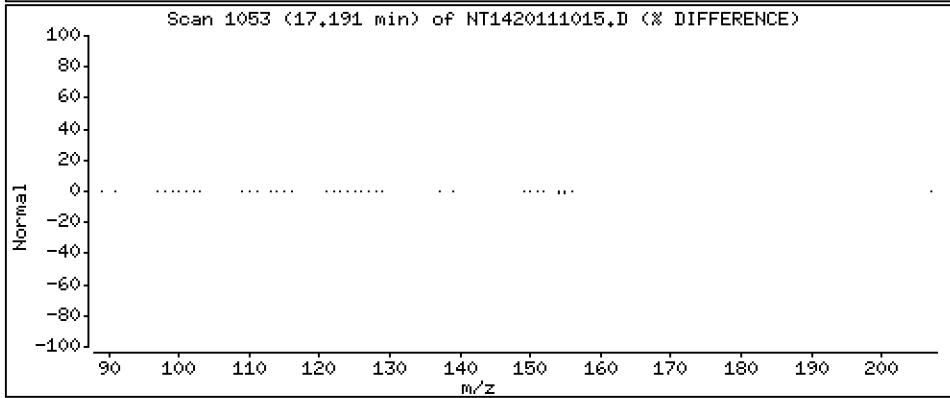
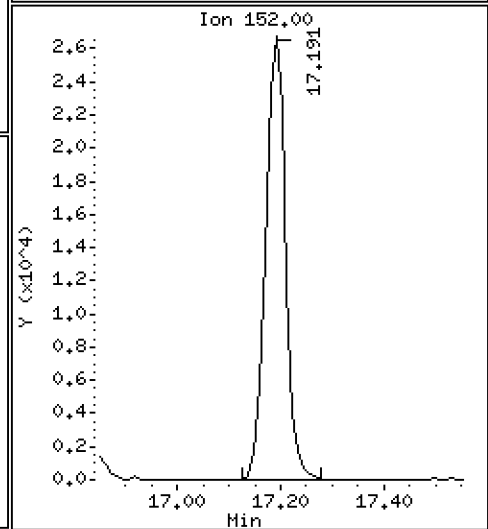
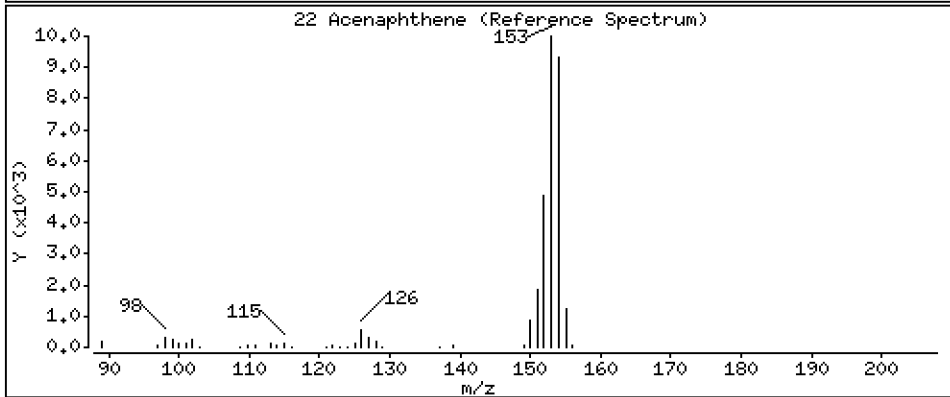
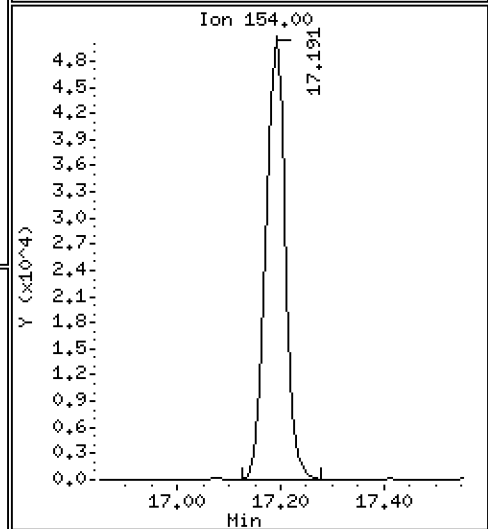
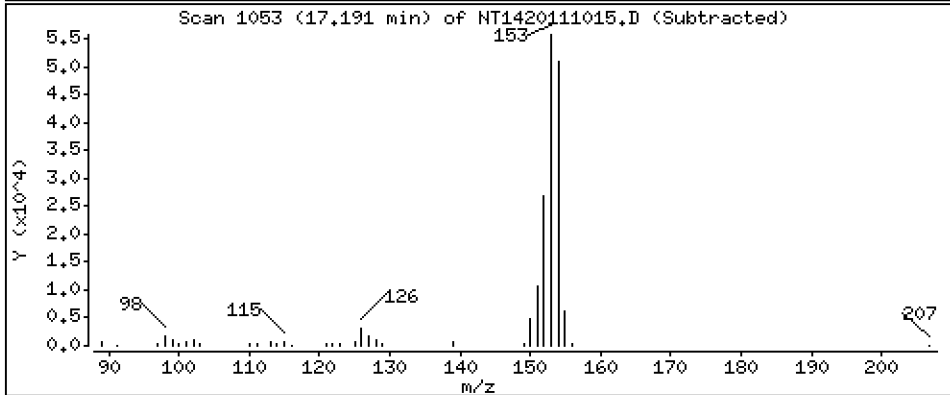
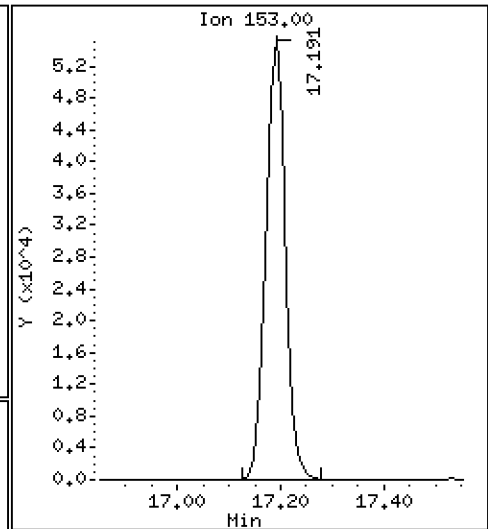
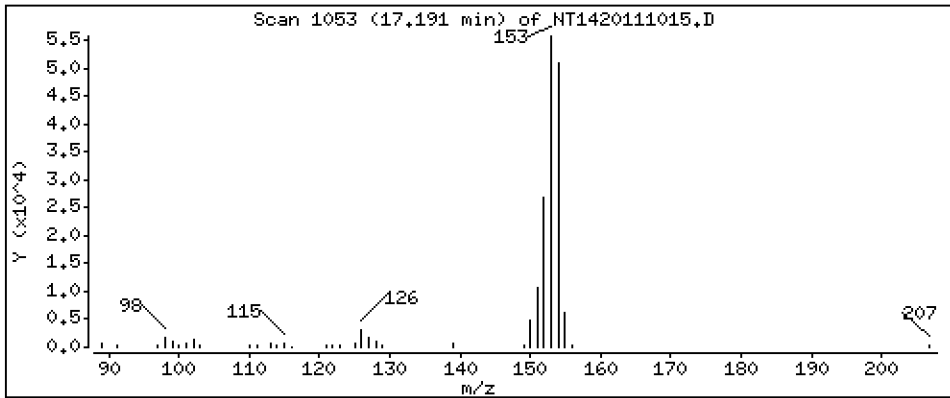
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

22 Acenaphthene

Concentration: 1,993 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

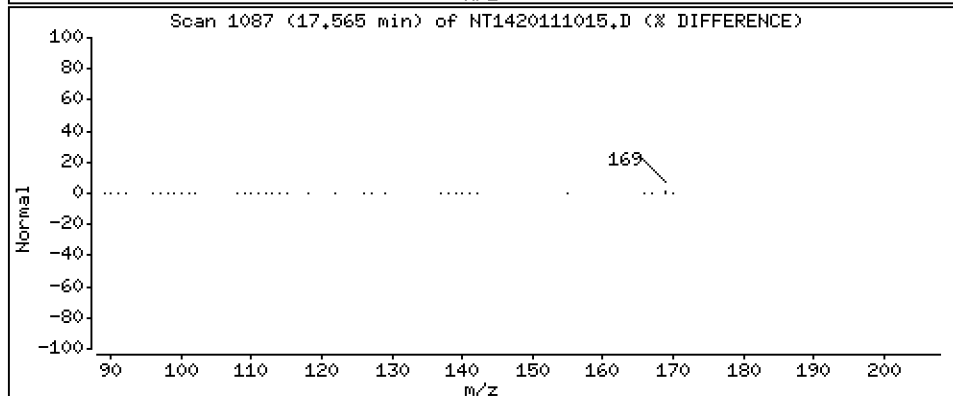
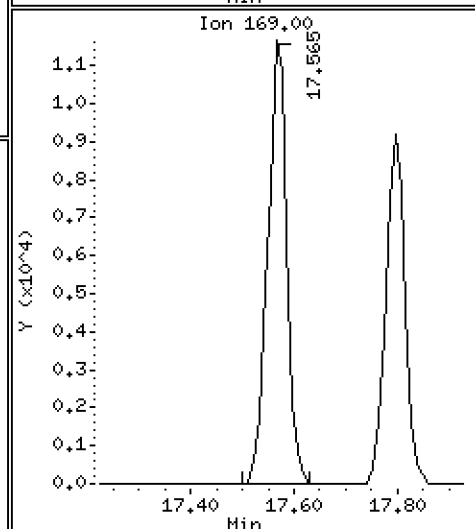
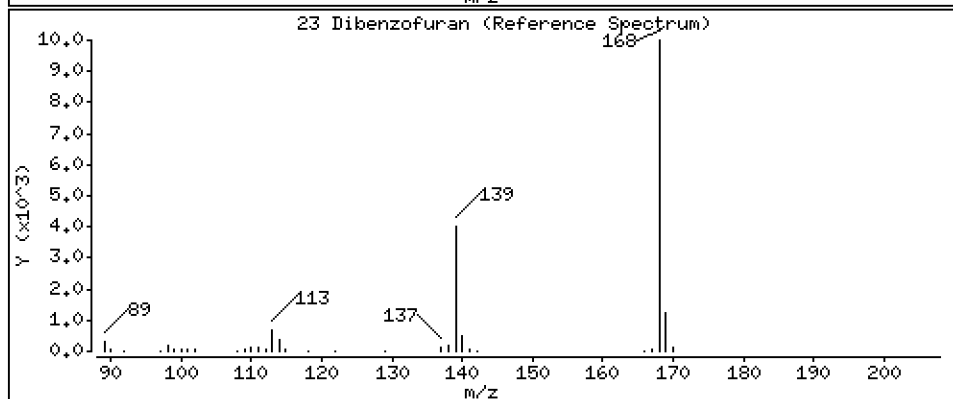
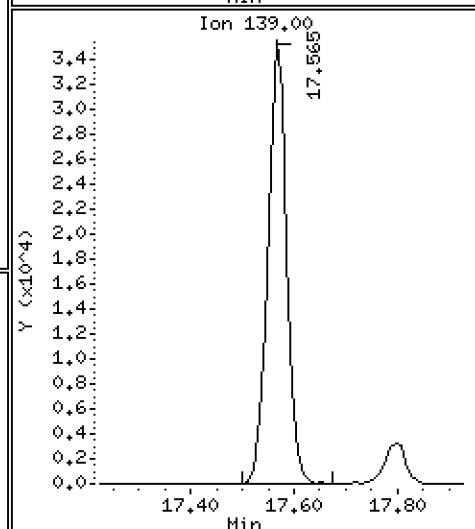
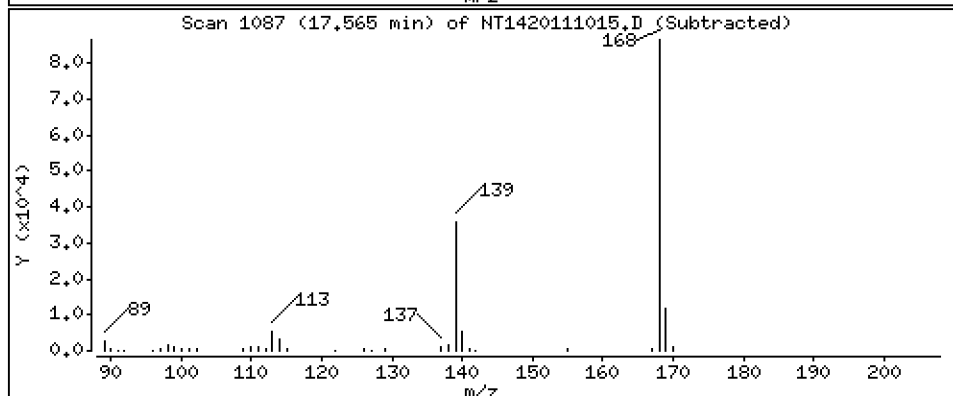
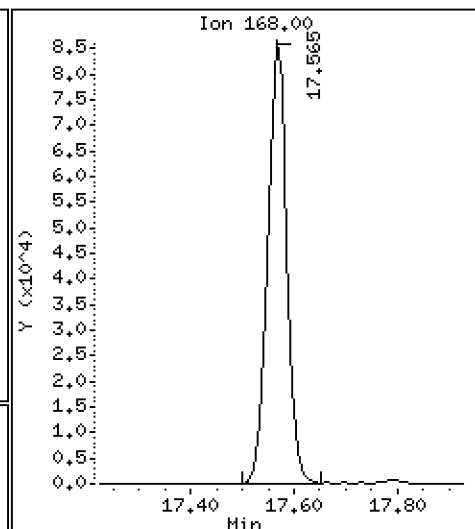
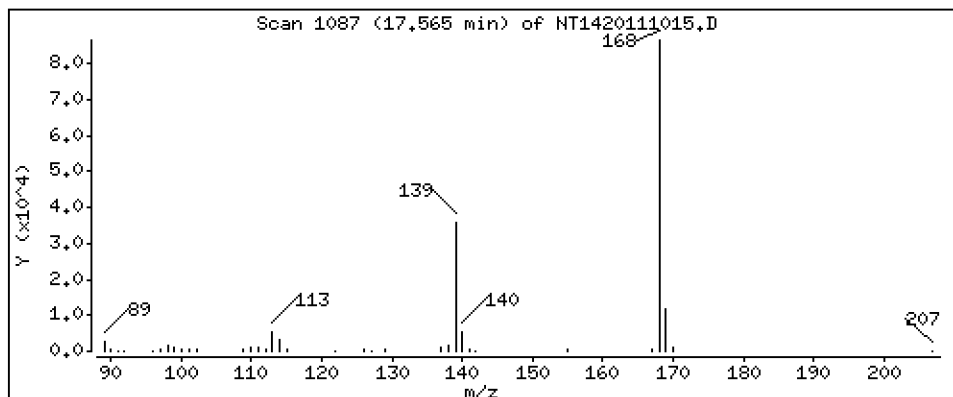
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

23 Dibenzofuran

Concentration: 2,097 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

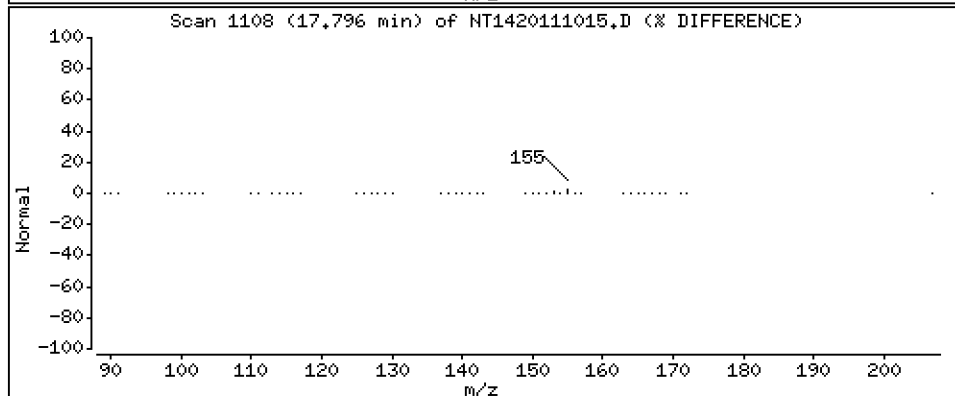
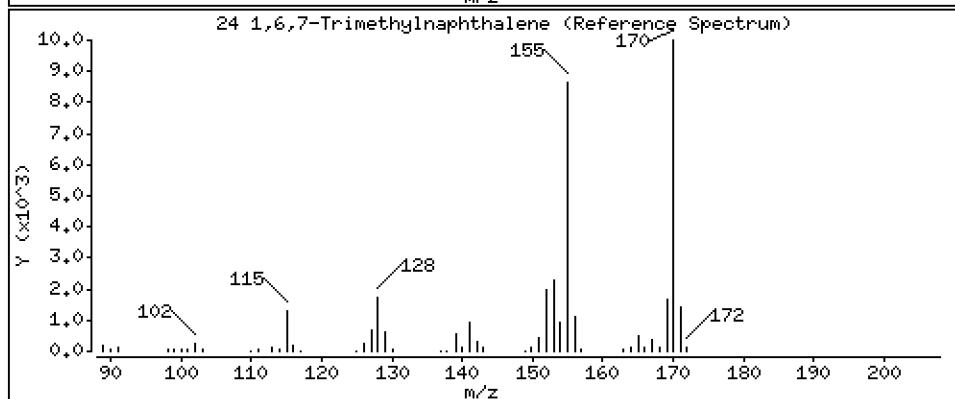
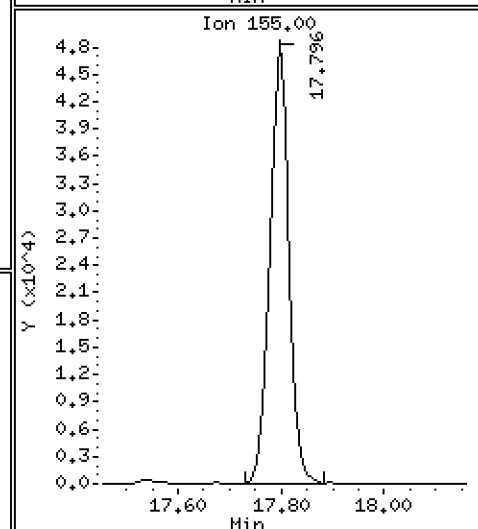
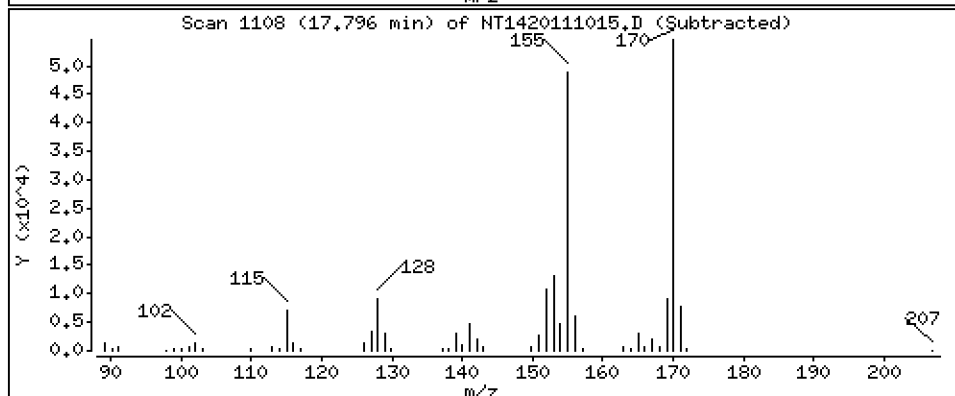
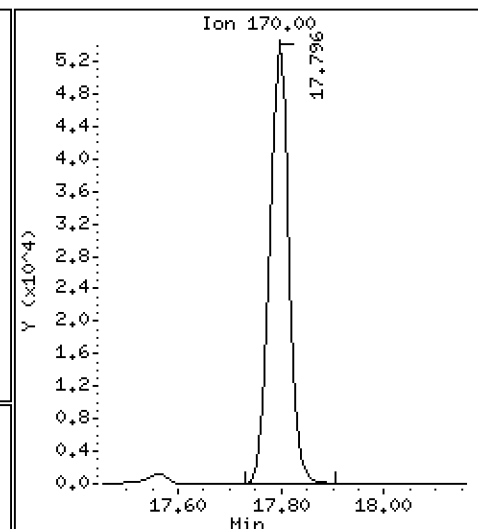
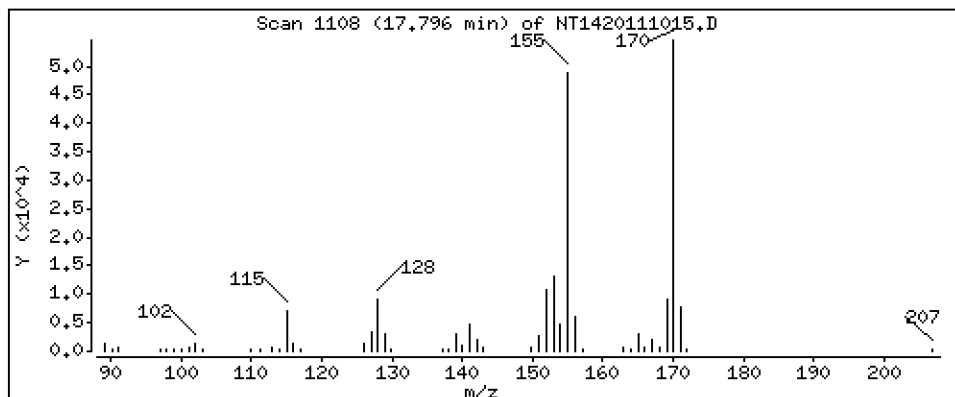
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

24 1,6,7-Trimethylnaphthalene

Concentration: 2,041 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

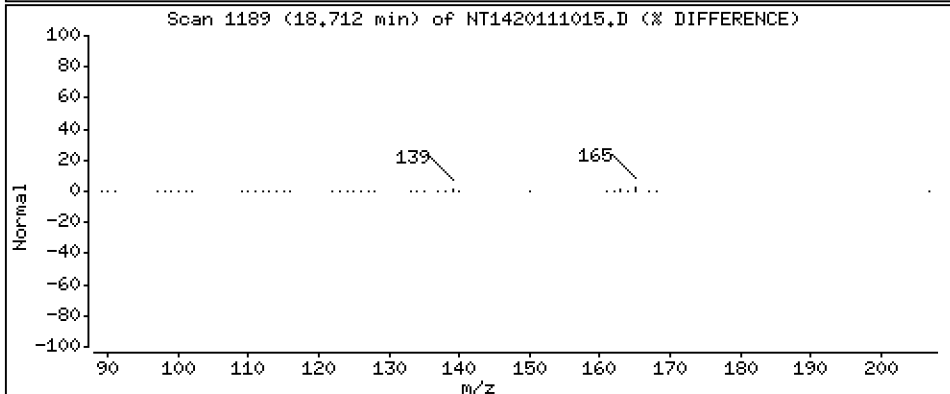
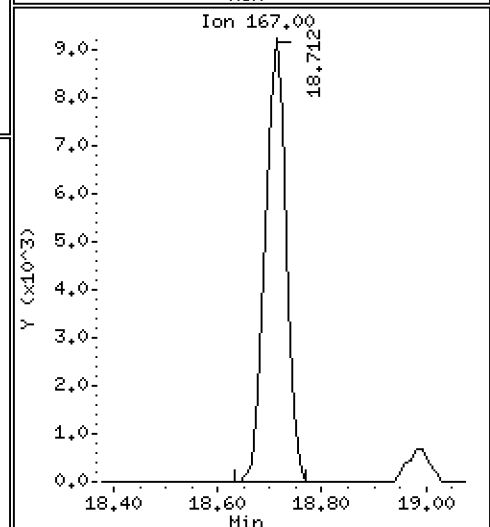
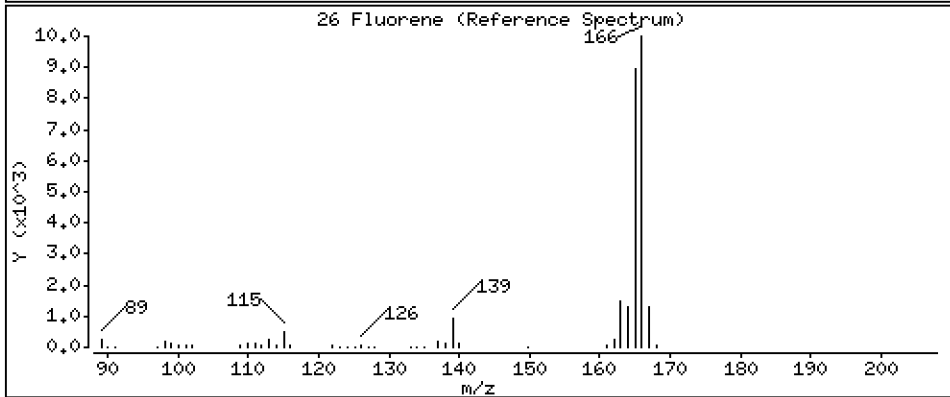
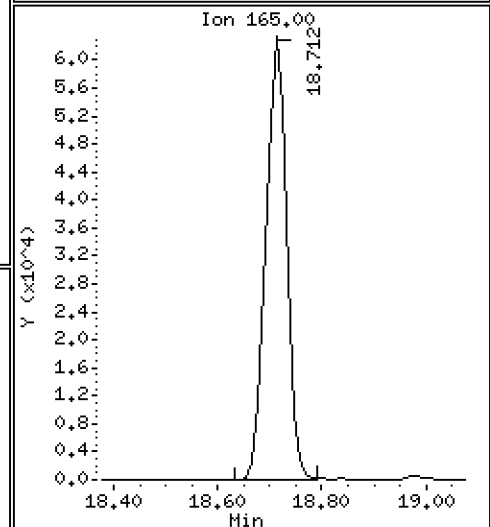
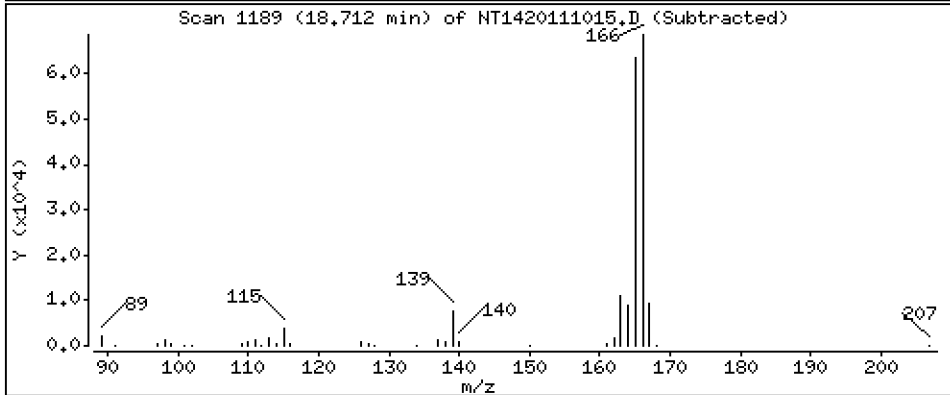
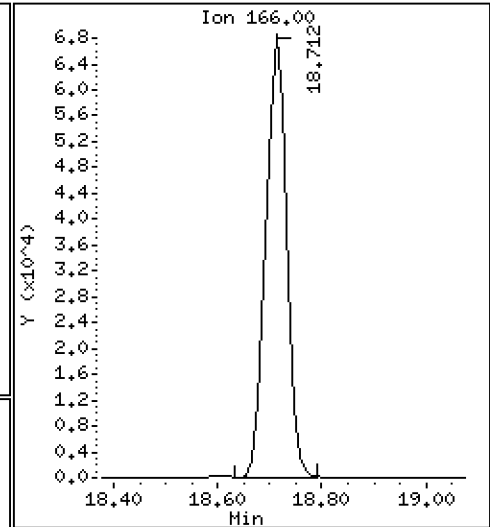
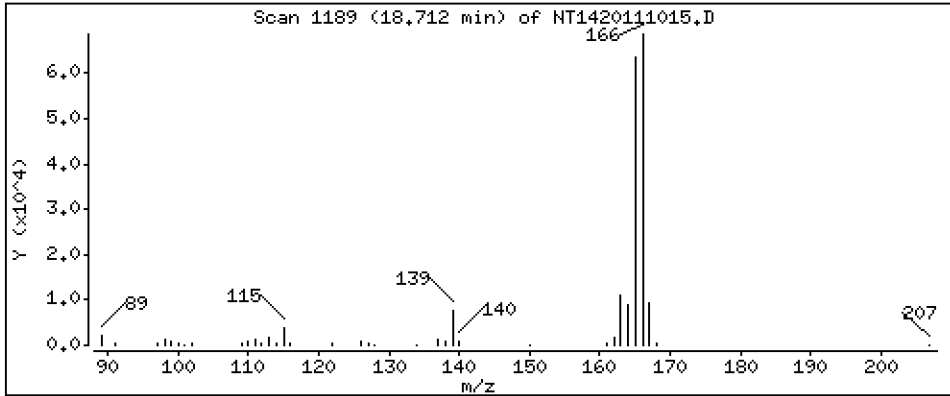
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

26 Fluorene

Concentration: 2,168 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

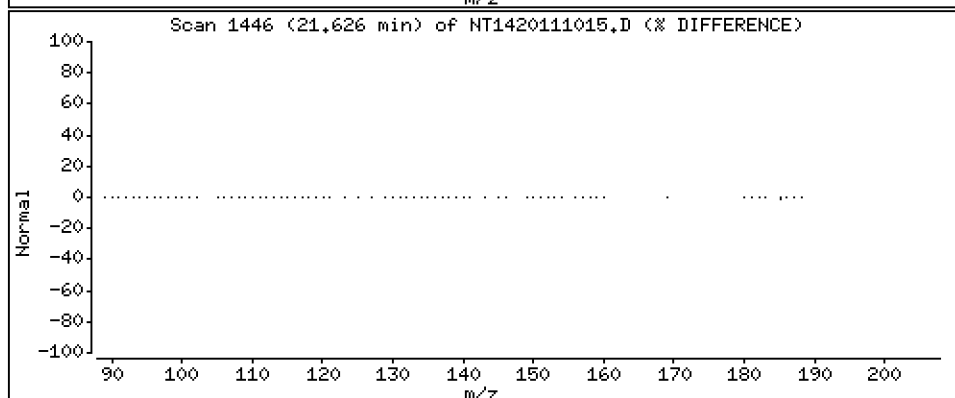
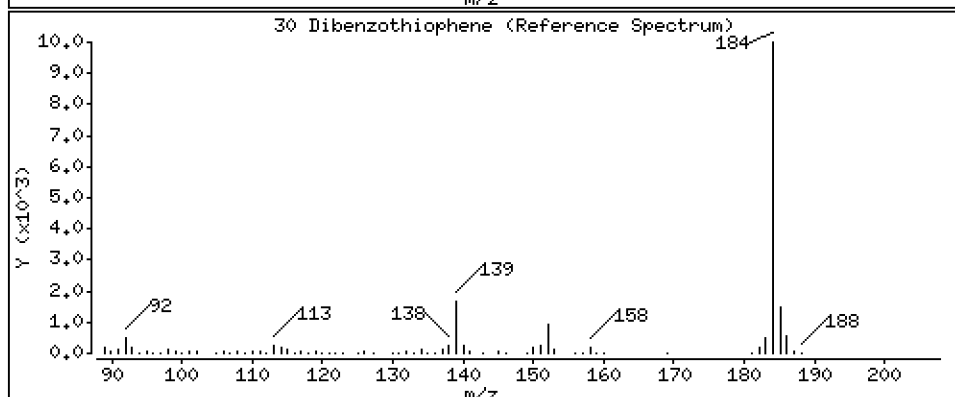
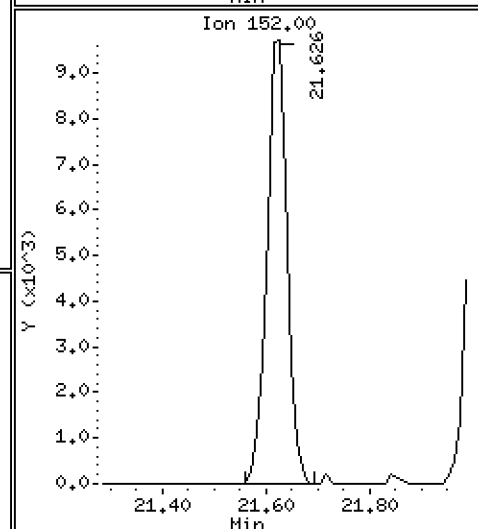
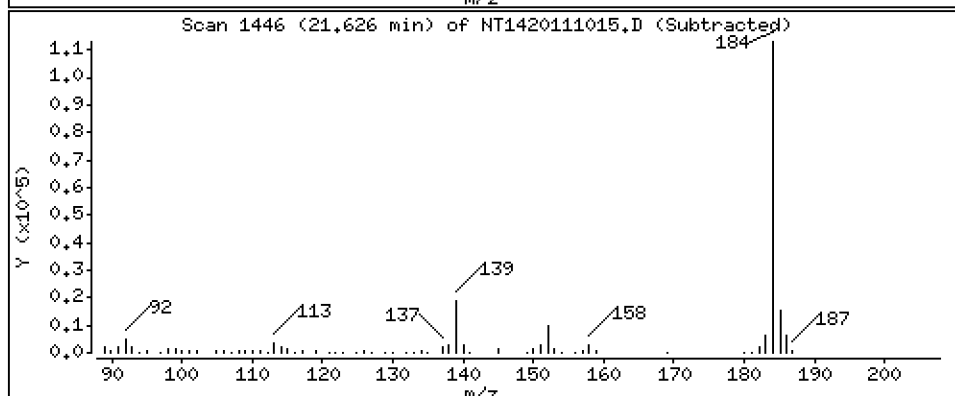
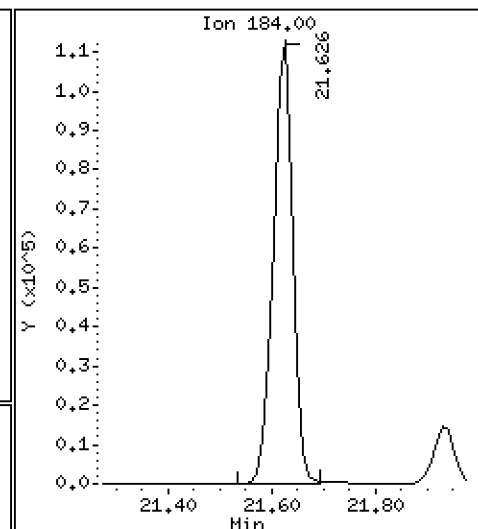
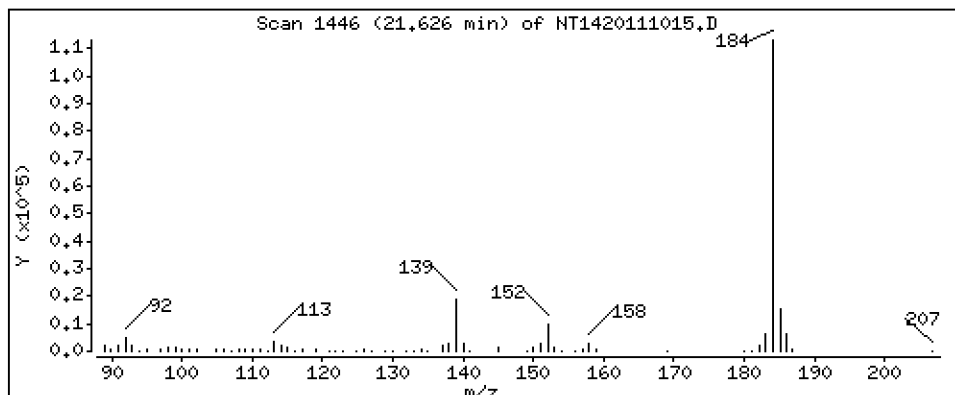
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

30 Dibenzothiophene

Concentration: 2,432 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

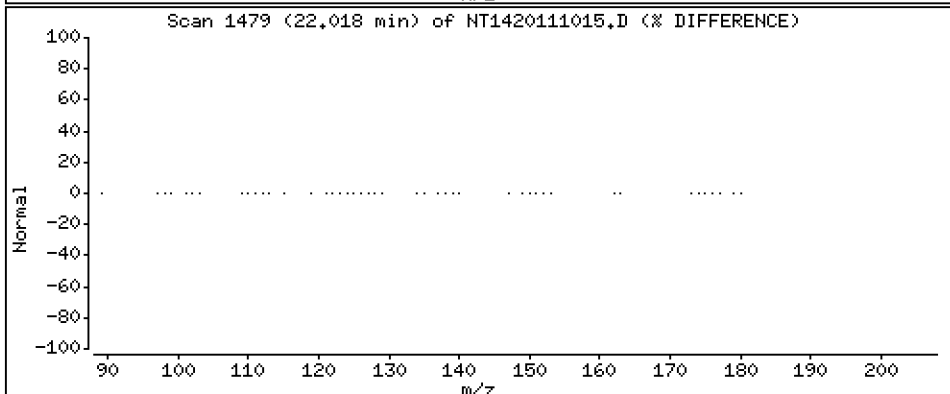
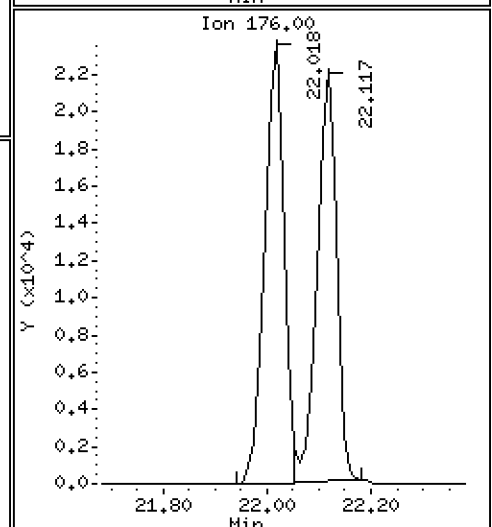
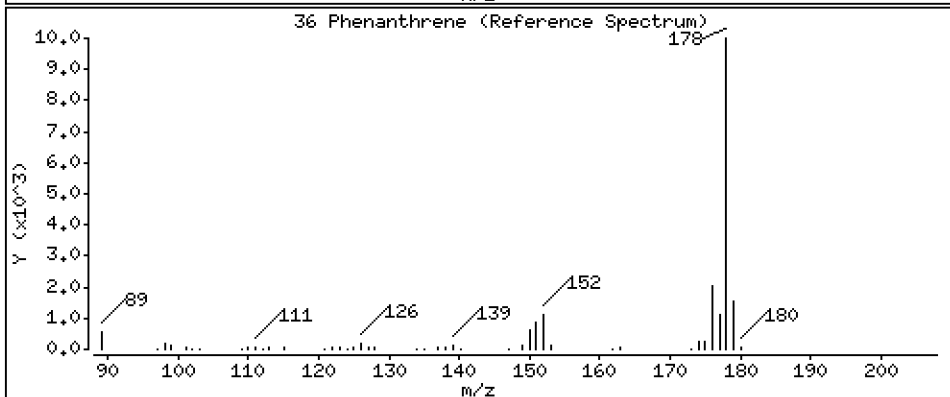
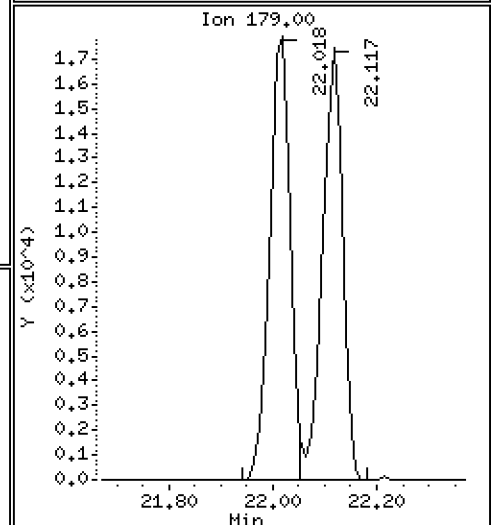
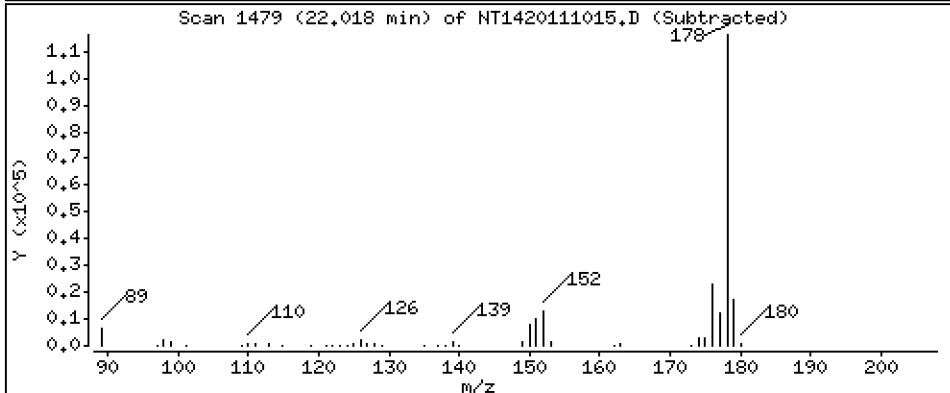
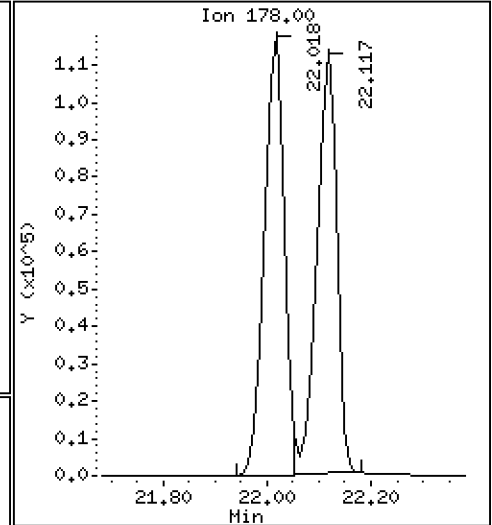
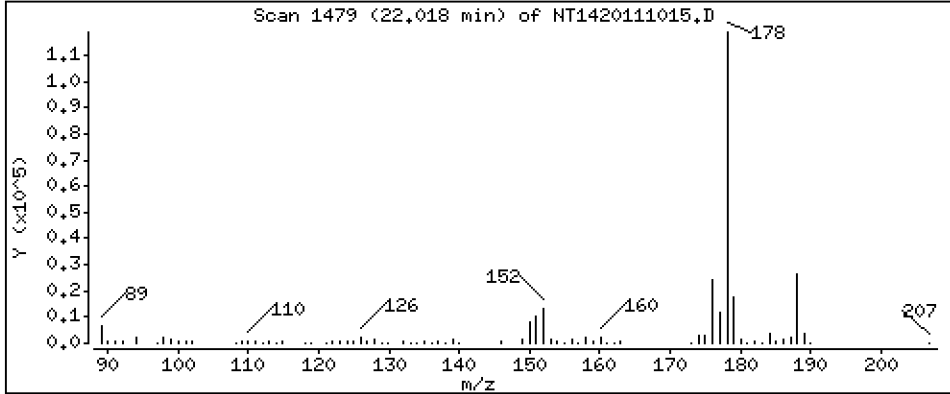
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0.25

36 Phenanthrene

Concentration: 2,281 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

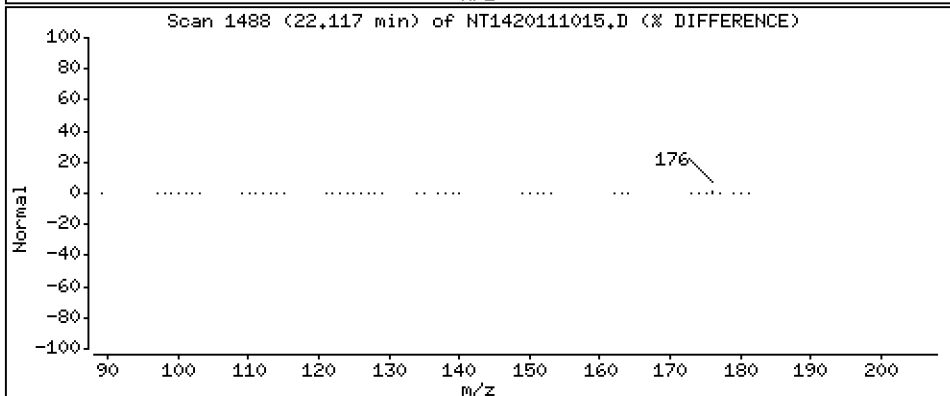
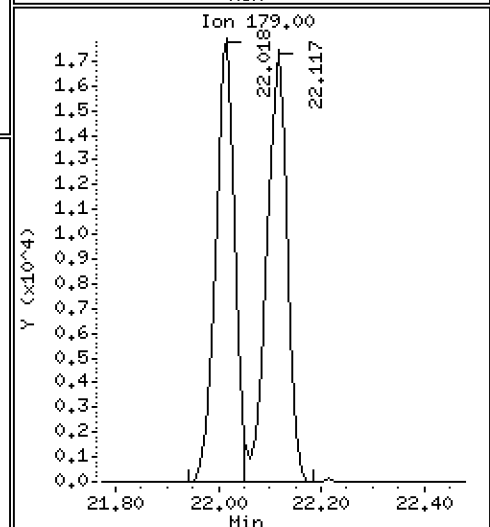
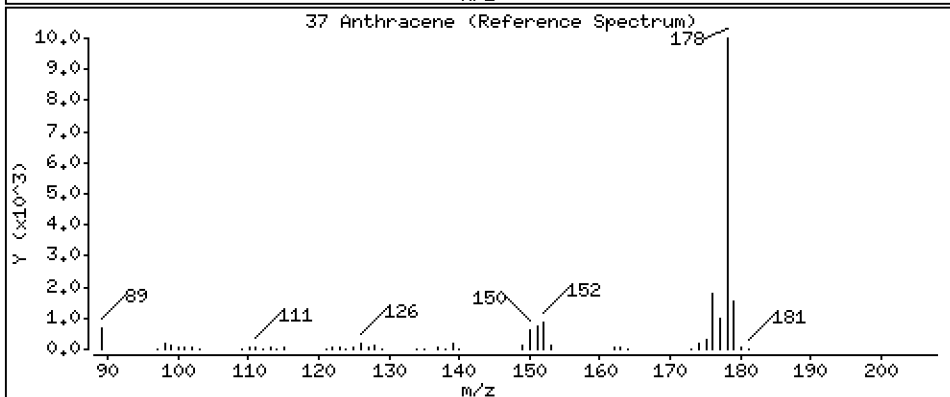
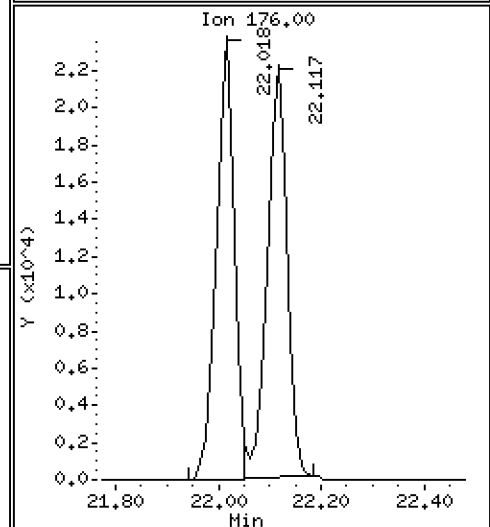
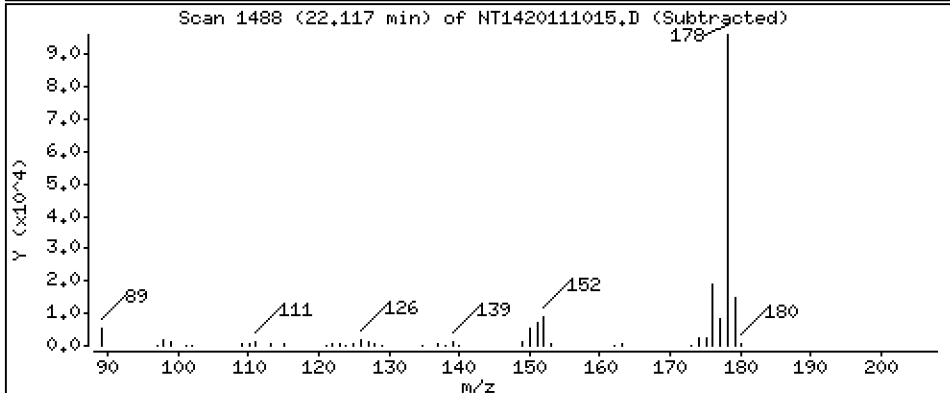
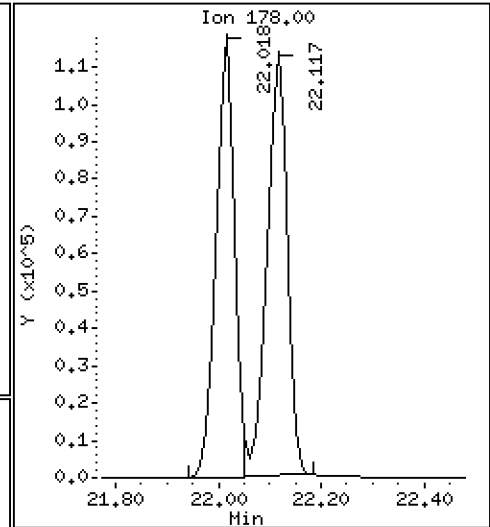
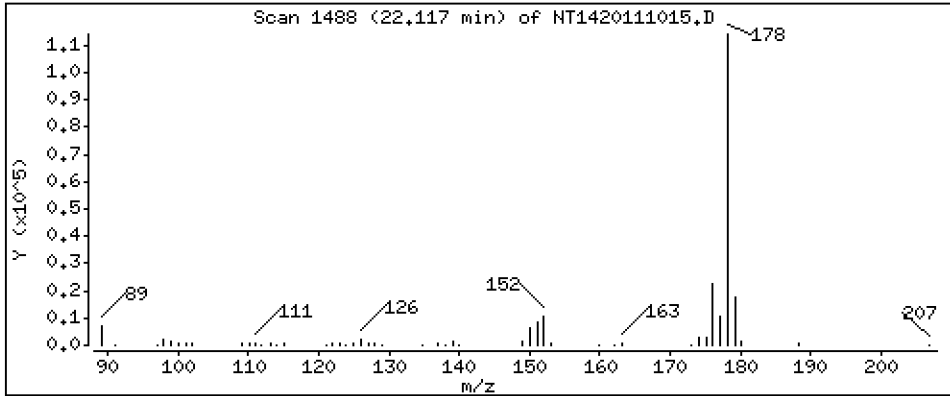
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

37 Anthracene

Concentration: 2,277 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

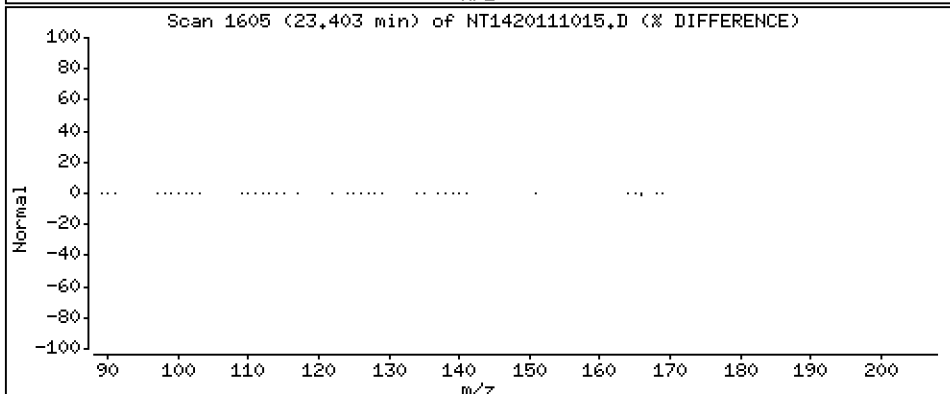
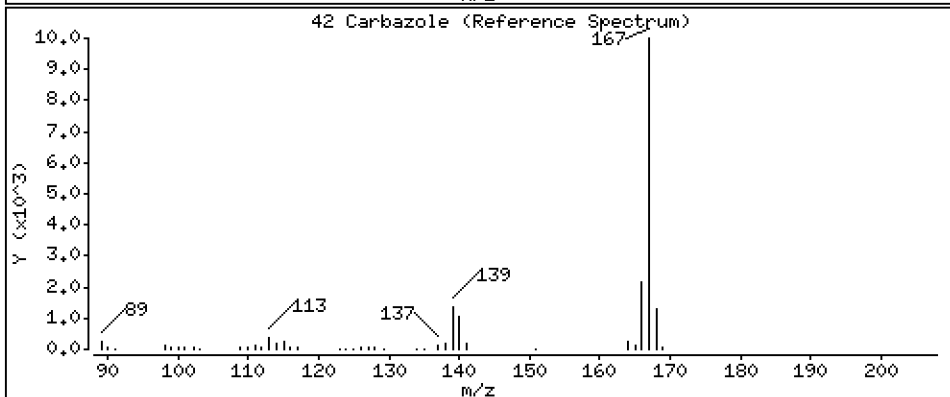
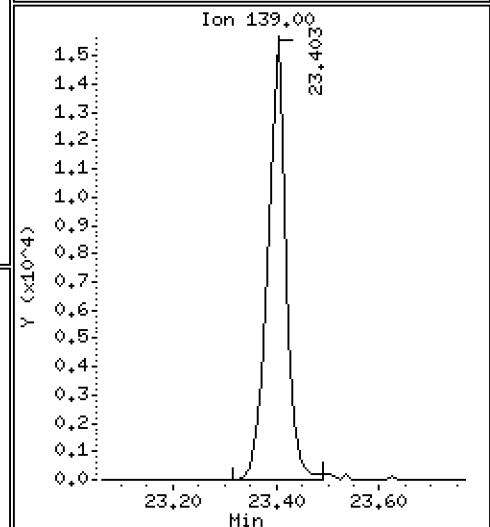
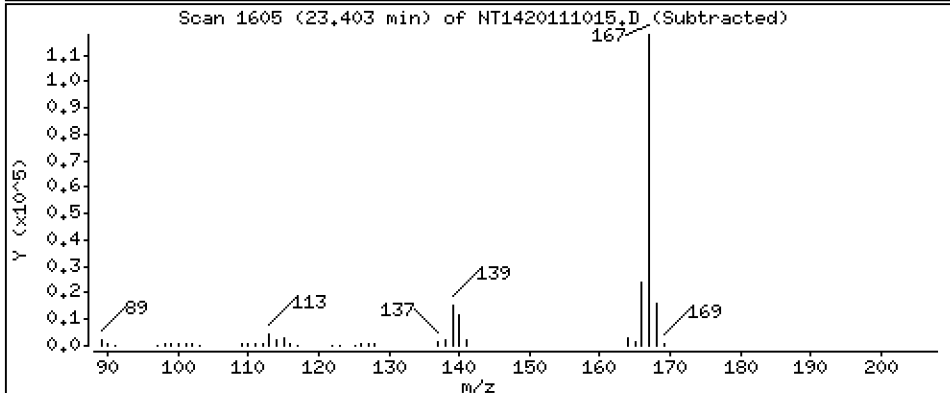
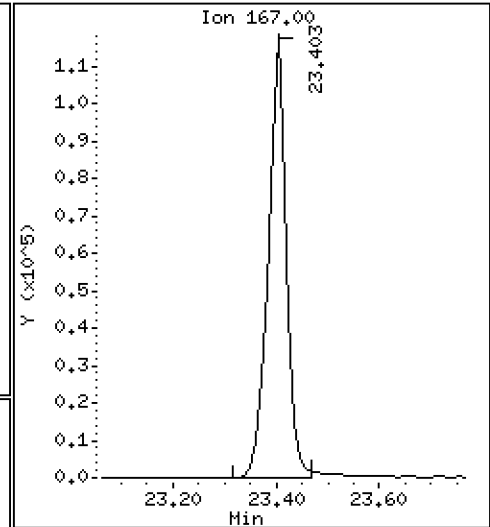
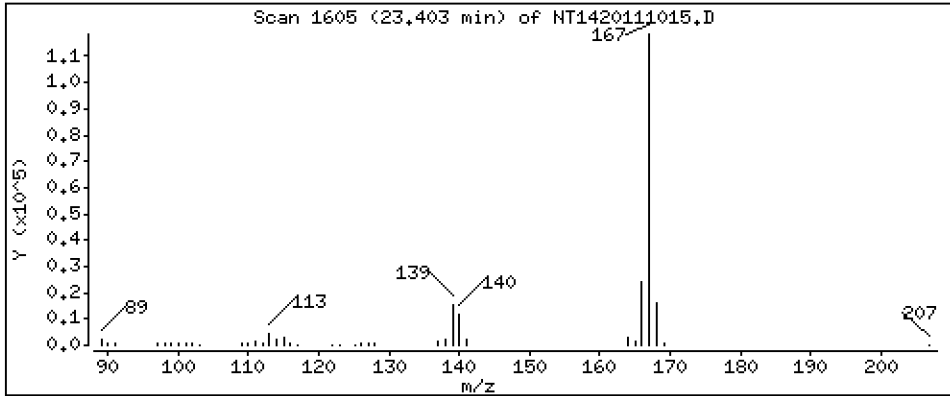
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

42 Carbazole

Concentration: 2,578 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

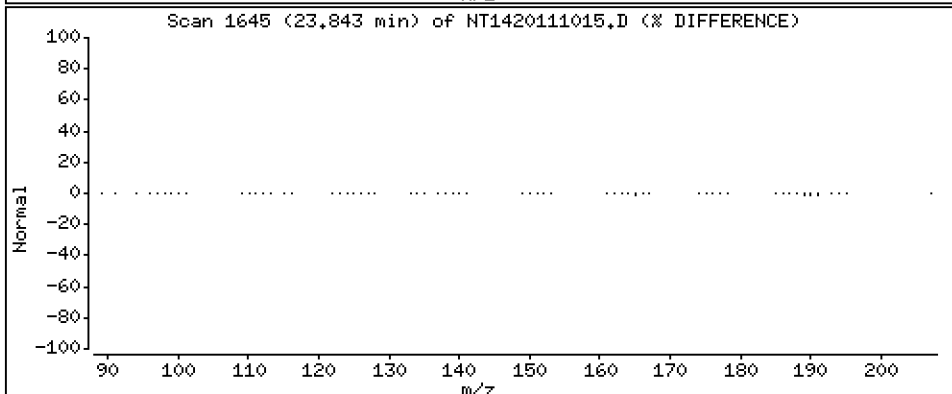
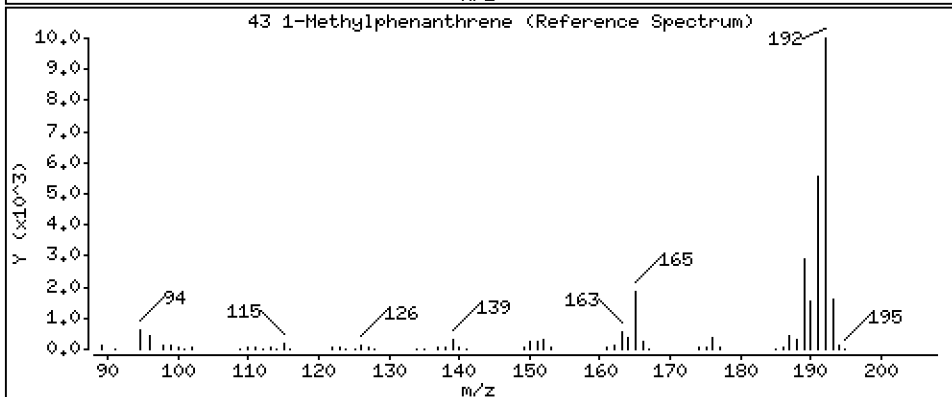
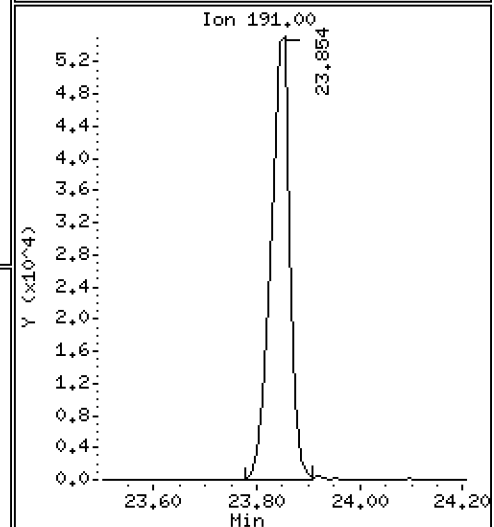
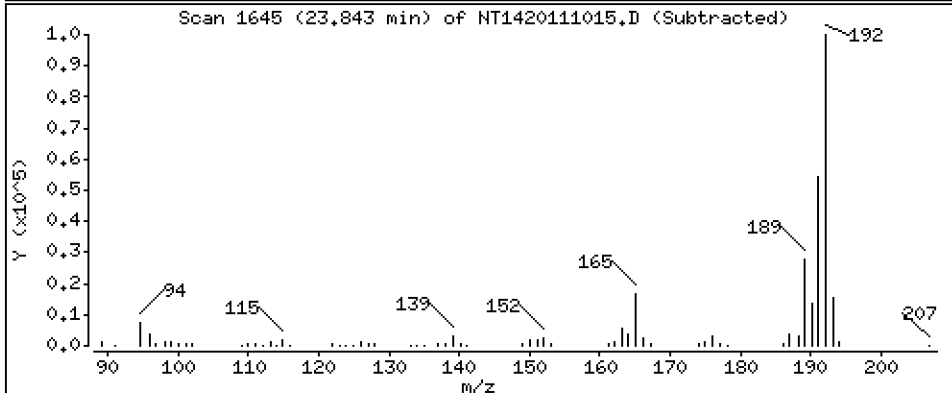
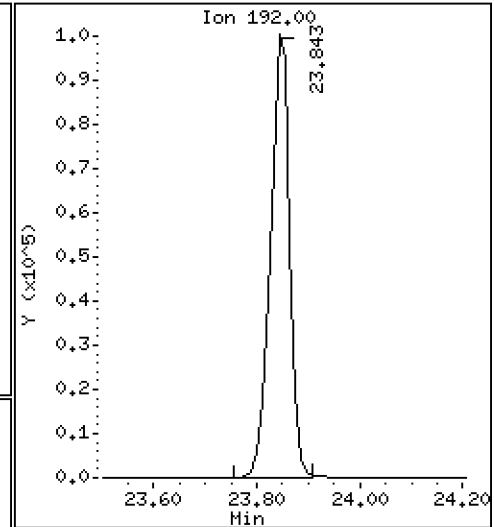
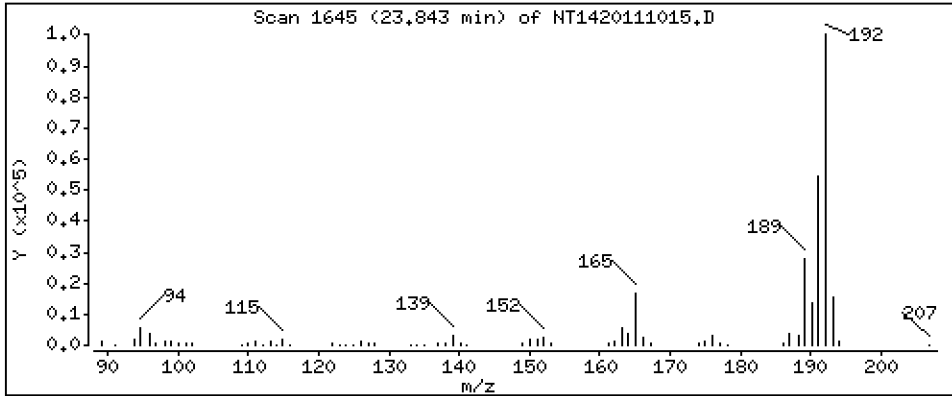
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

43 1-Methylphenanthrene

Concentration: 2,657 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

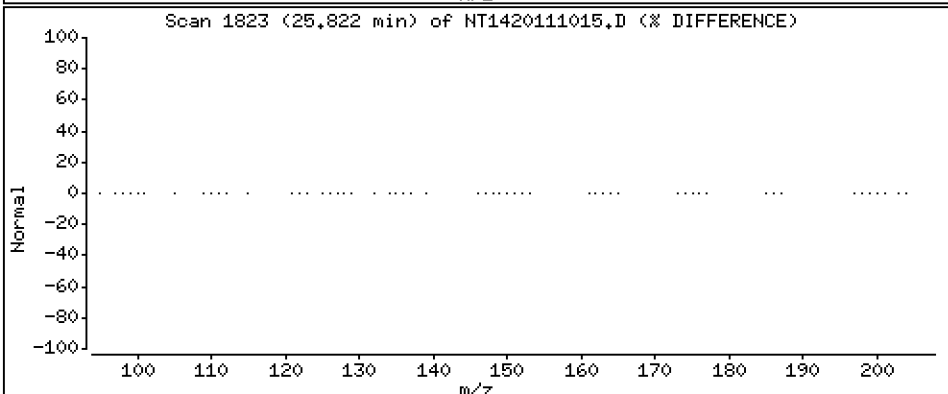
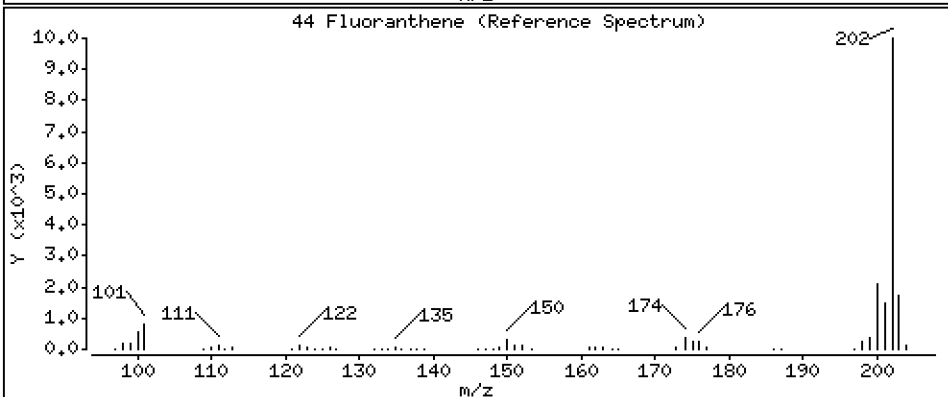
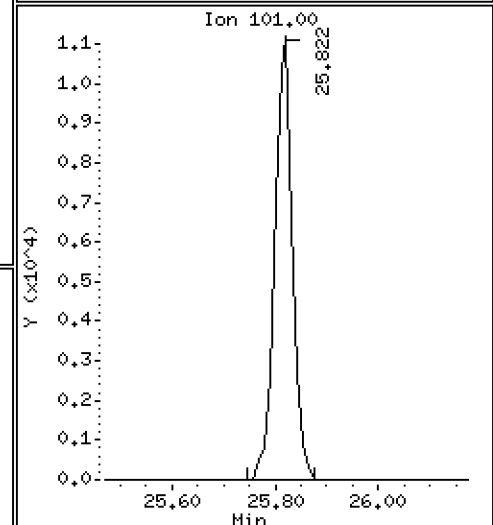
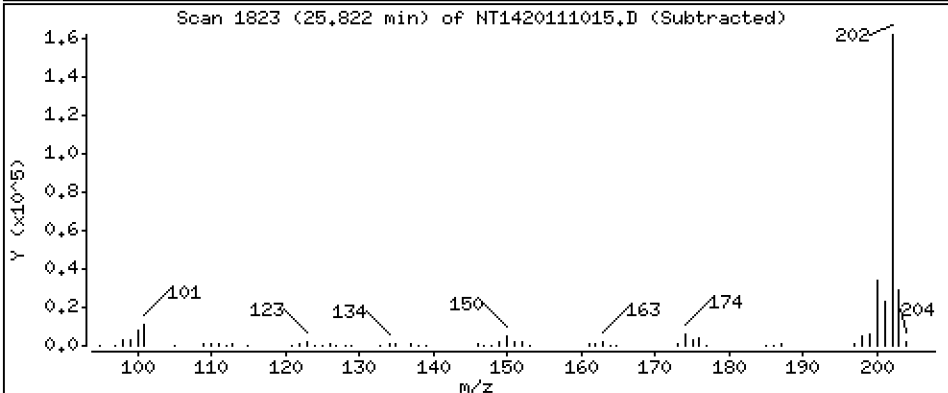
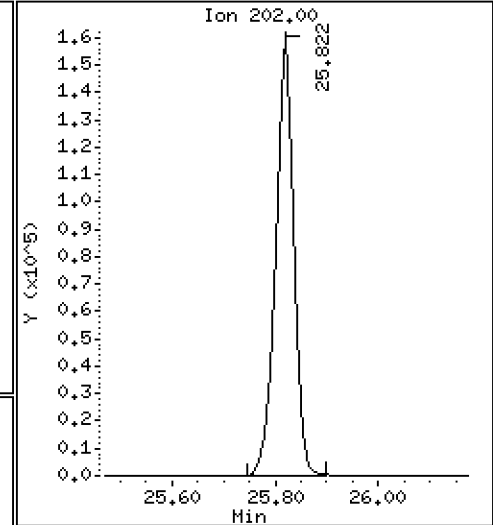
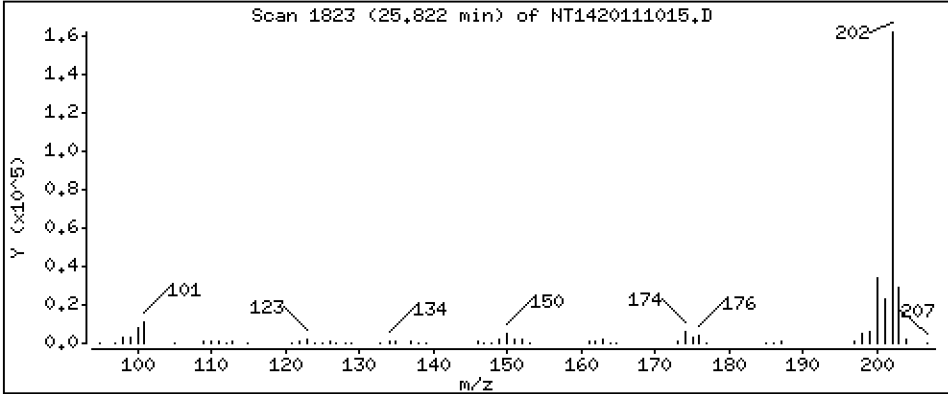
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

44 Fluoranthene

Concentration: 2,716 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

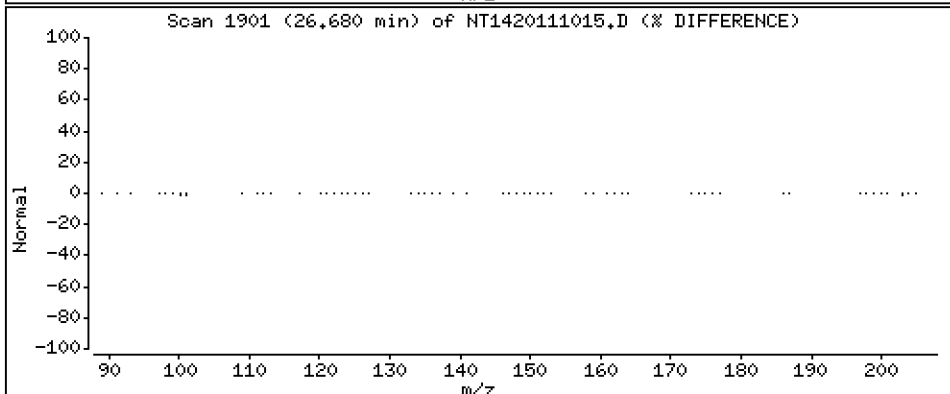
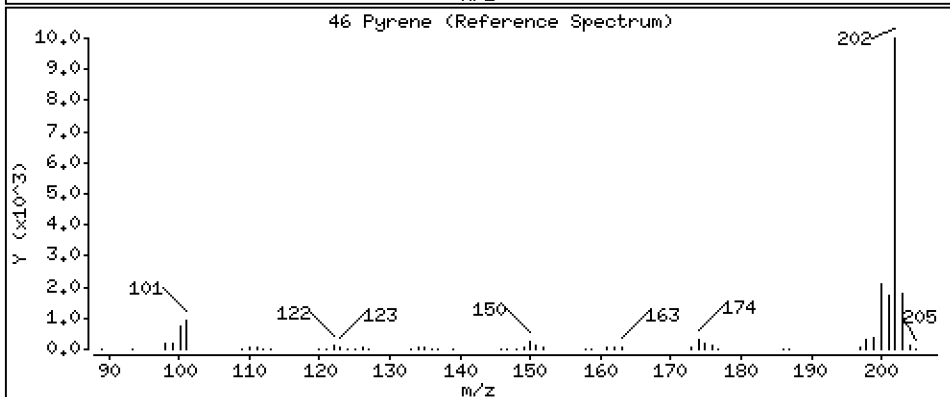
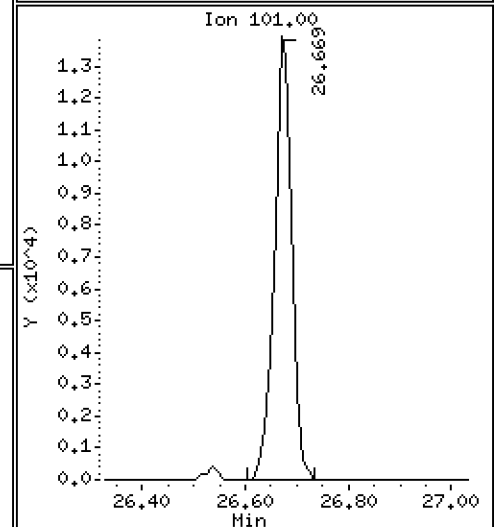
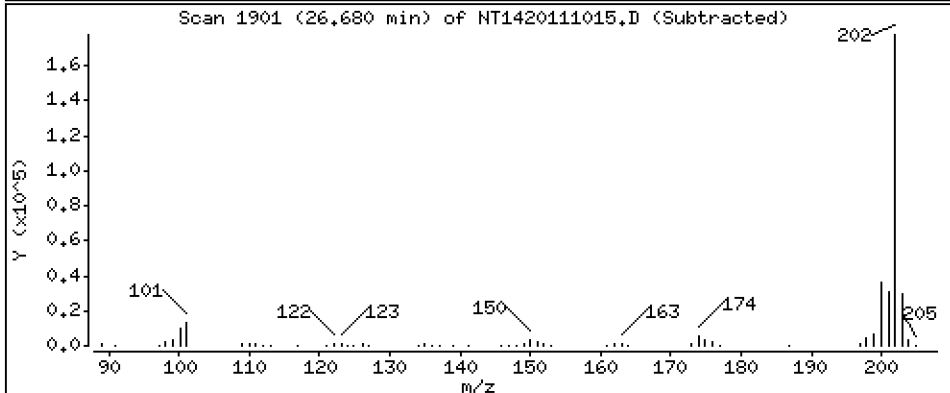
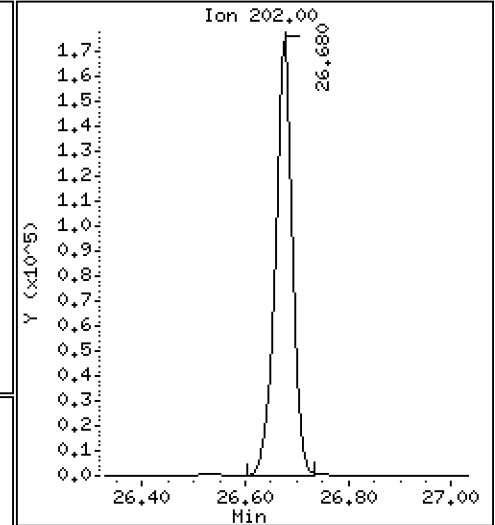
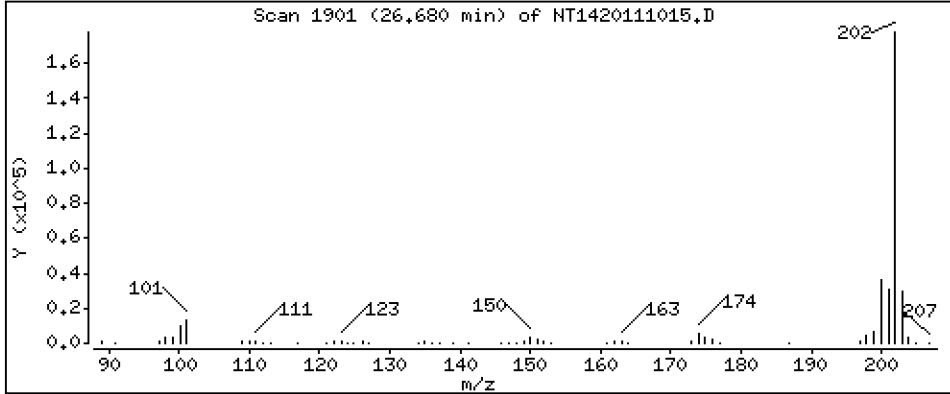
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

46 Pyrene

Concentration: 2,694 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

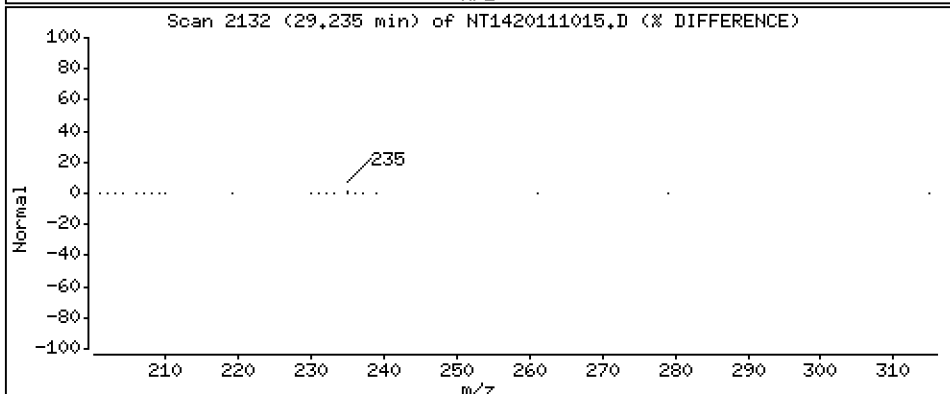
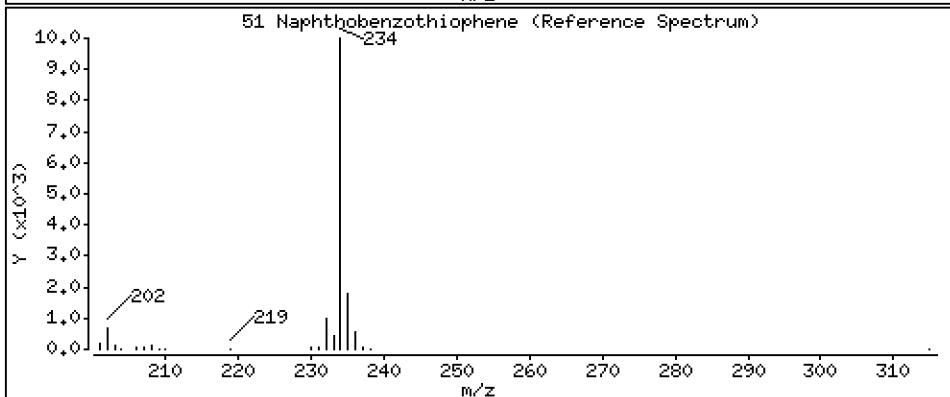
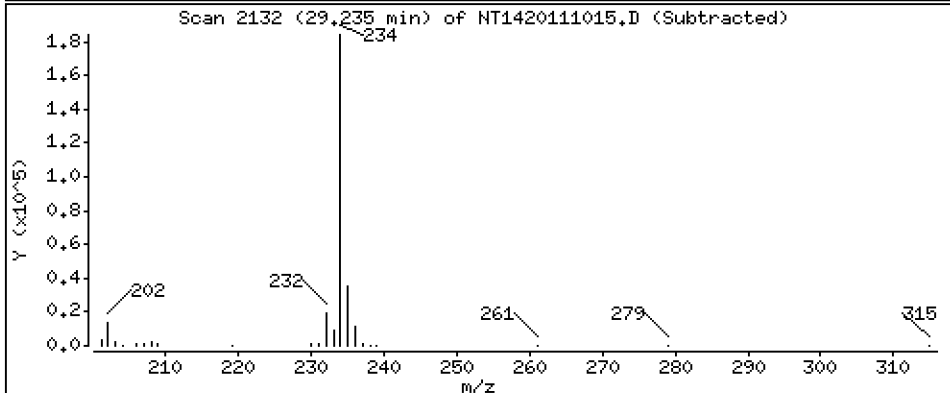
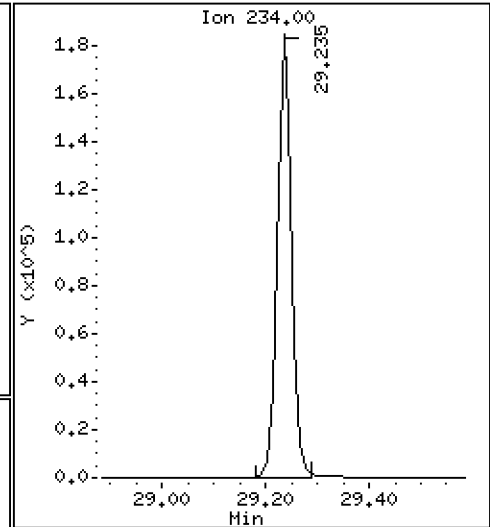
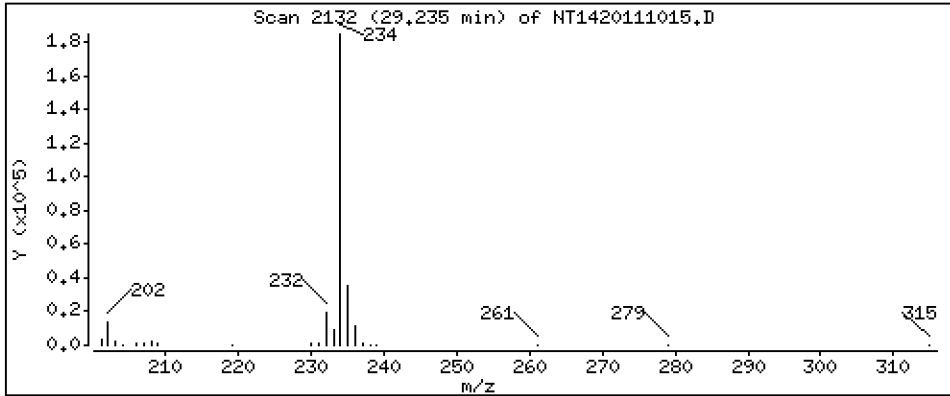
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

51 Naphthobenzothiophene

Concentration: 2,572 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

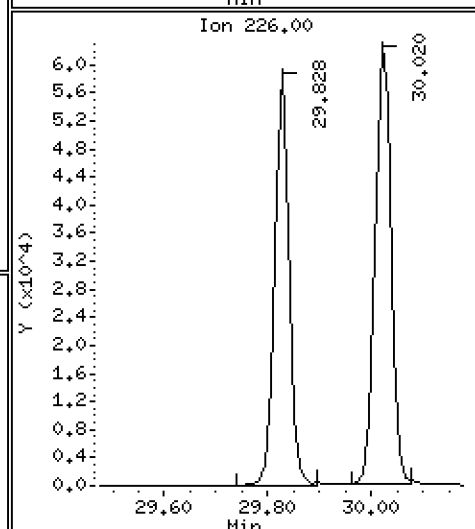
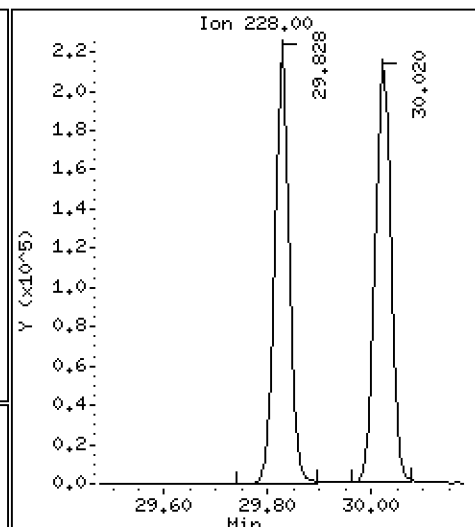
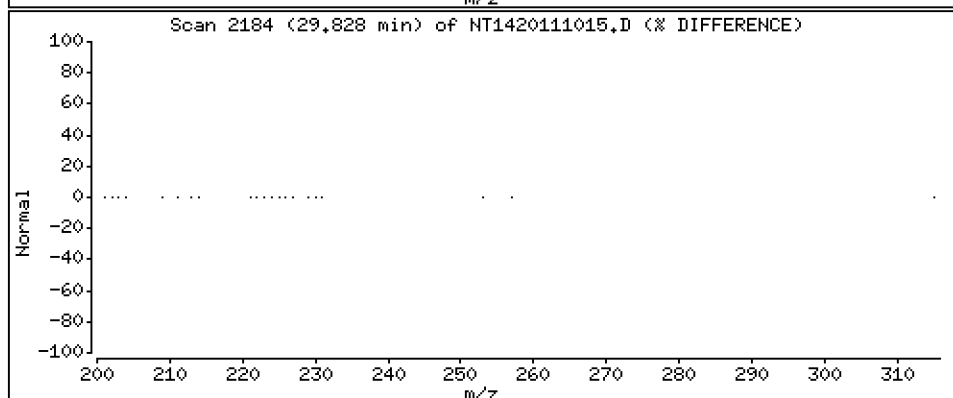
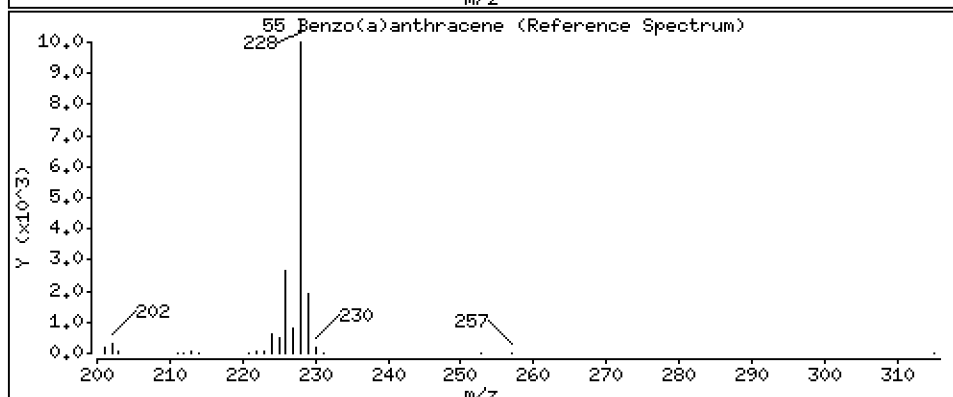
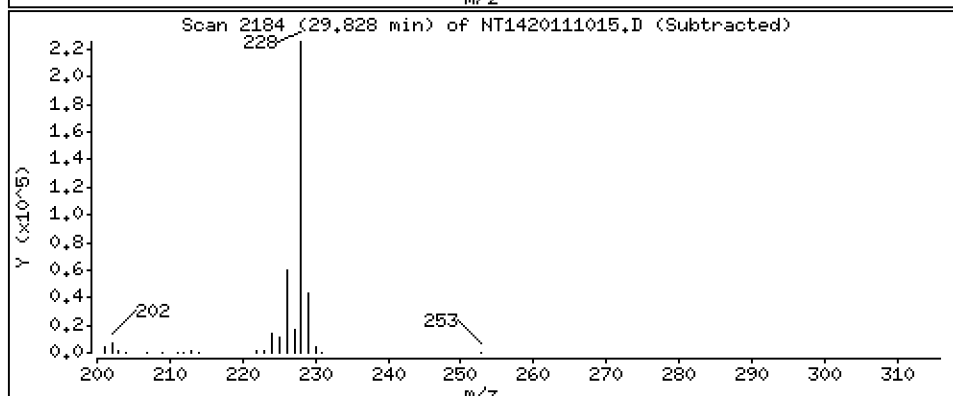
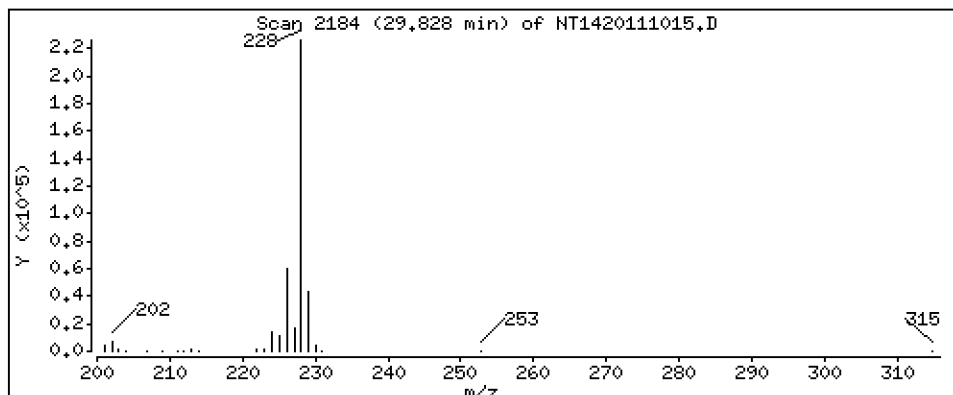
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

55 Benzo(a)anthracene

Concentration: 3,431 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

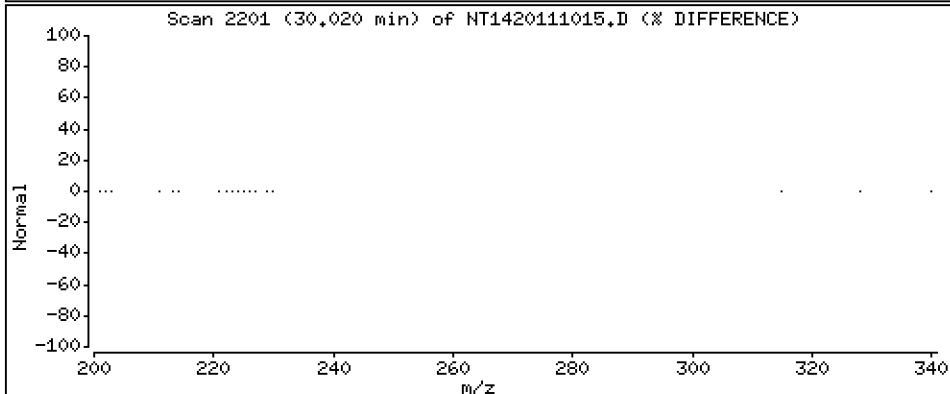
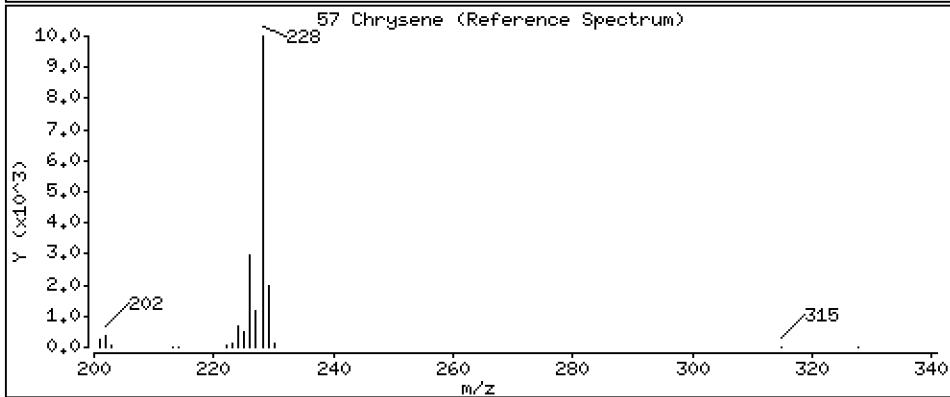
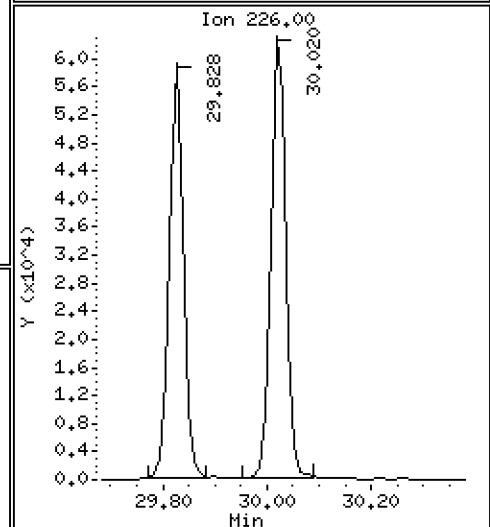
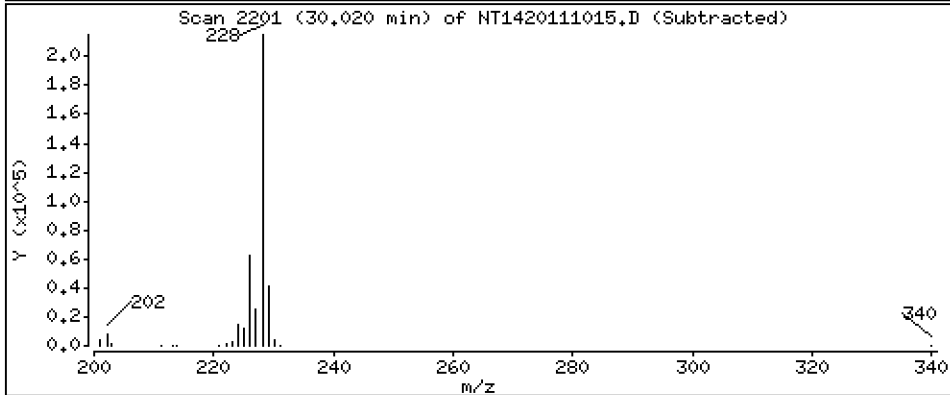
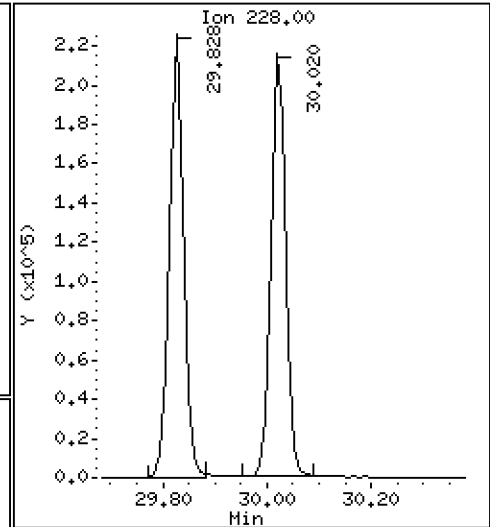
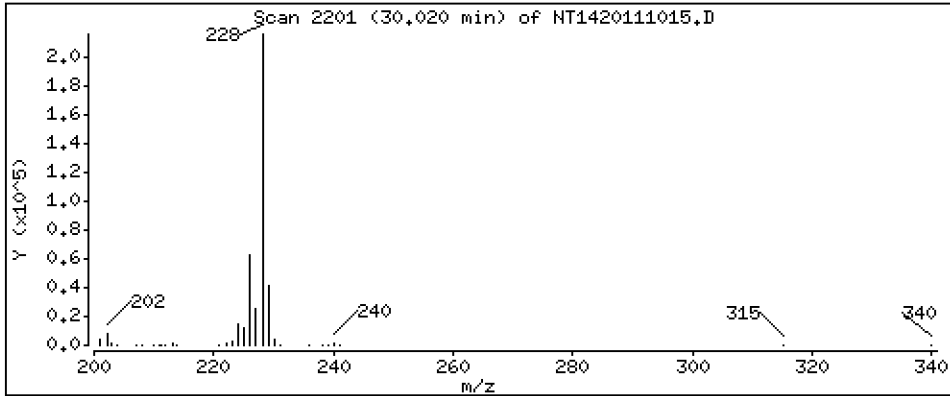
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

57 Chrysene

Concentration: 2,908 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

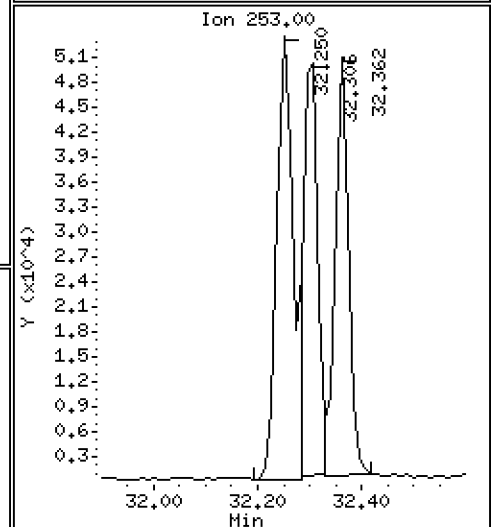
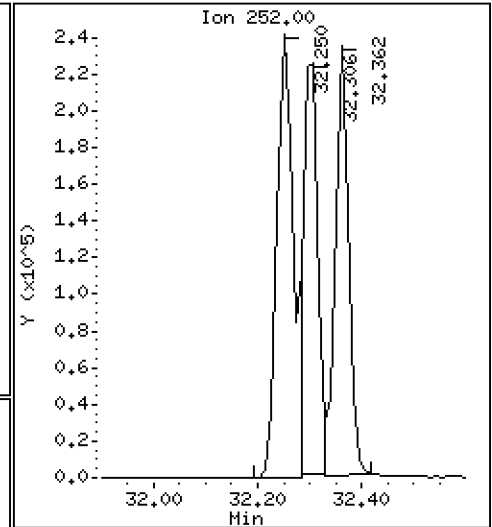
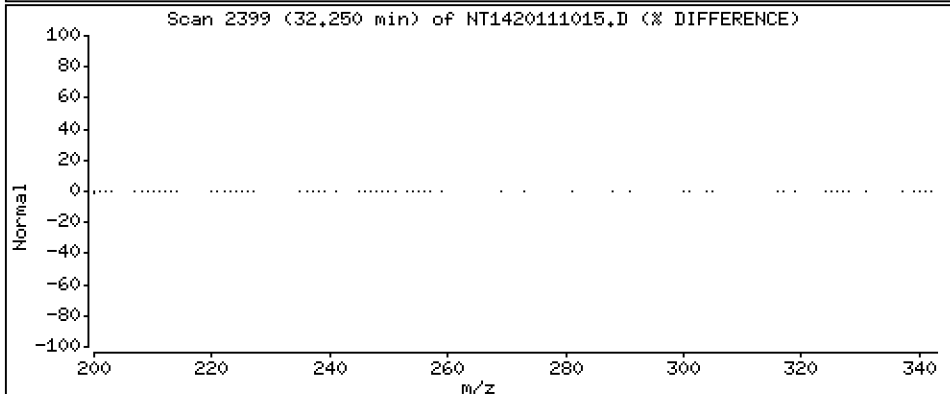
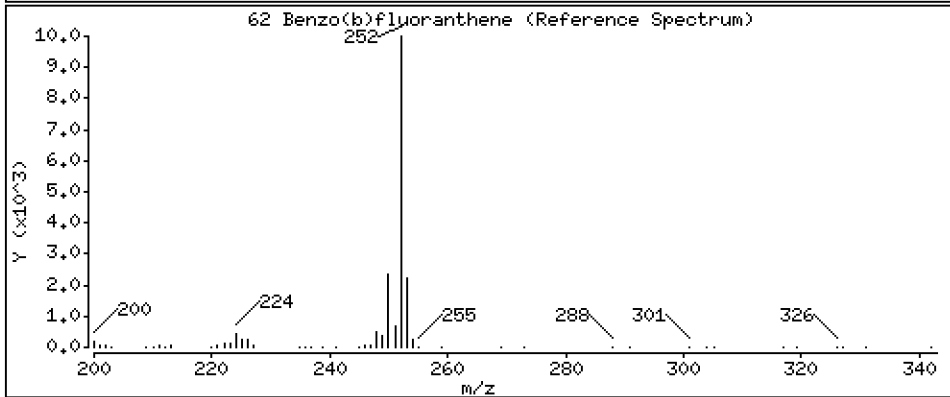
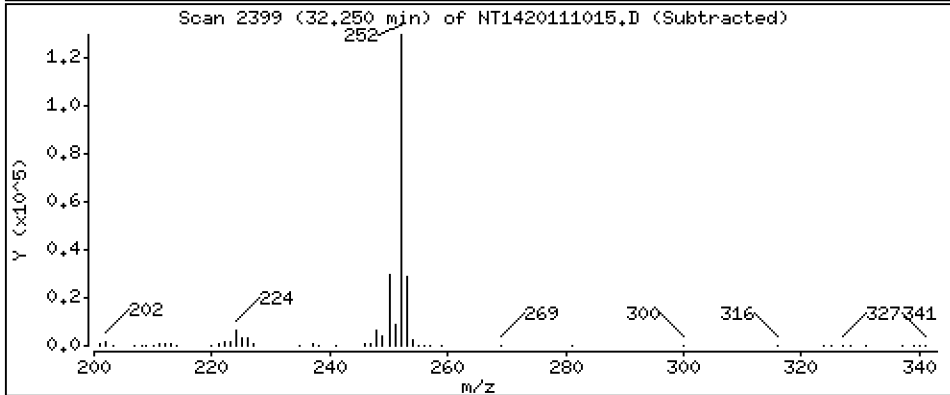
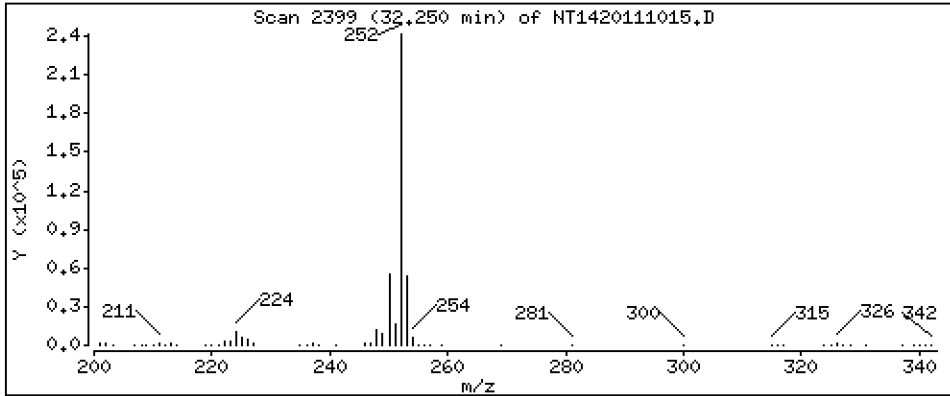
Operator: VTS

Column phase: Rxi-17Si1 MS

Column diameter: 0,25

62 Benzo(b)fluoranthene

Concentration: 3,248 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

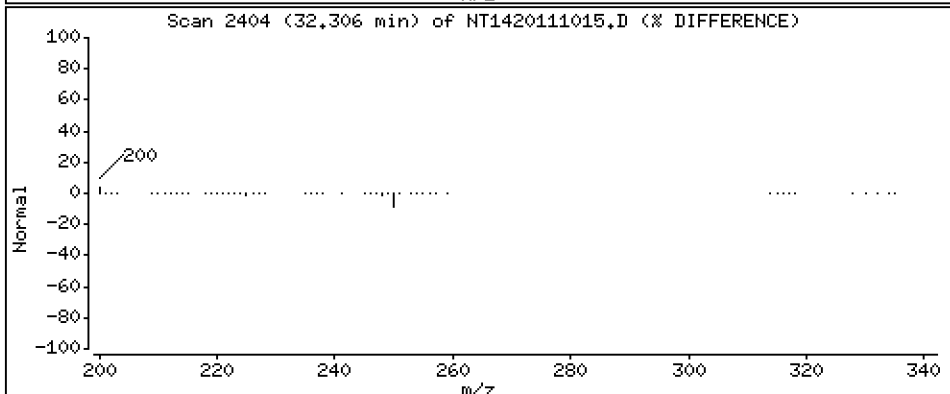
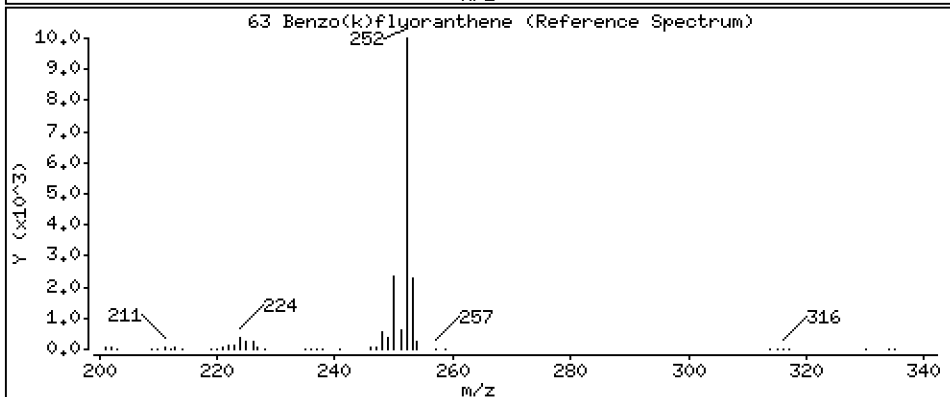
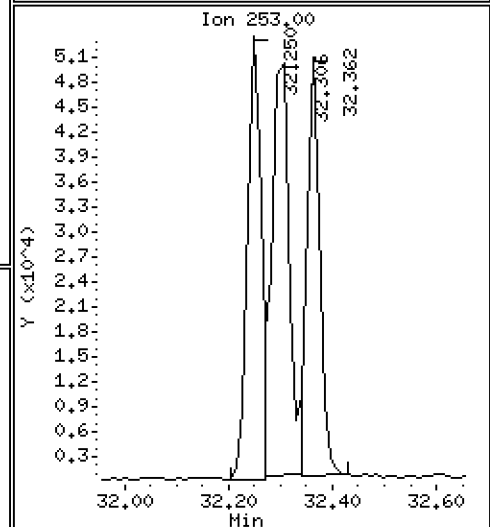
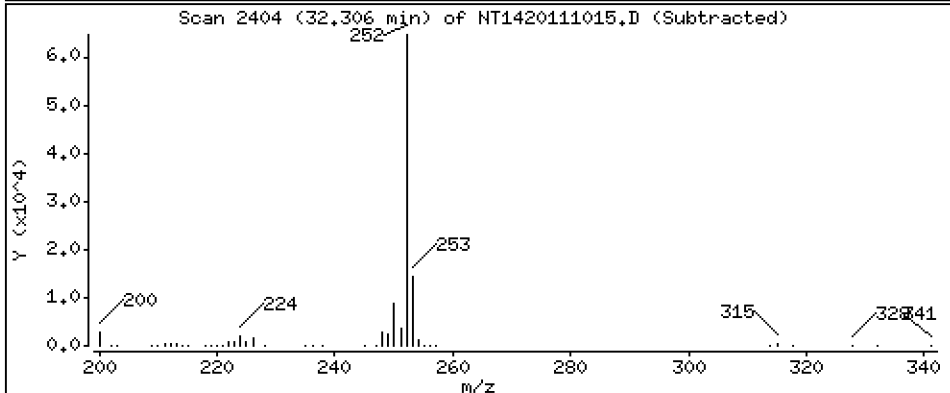
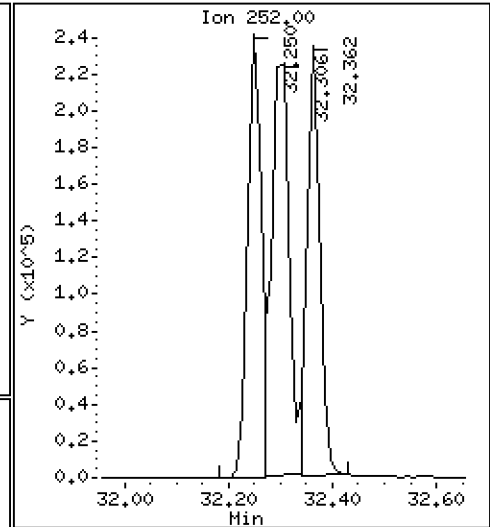
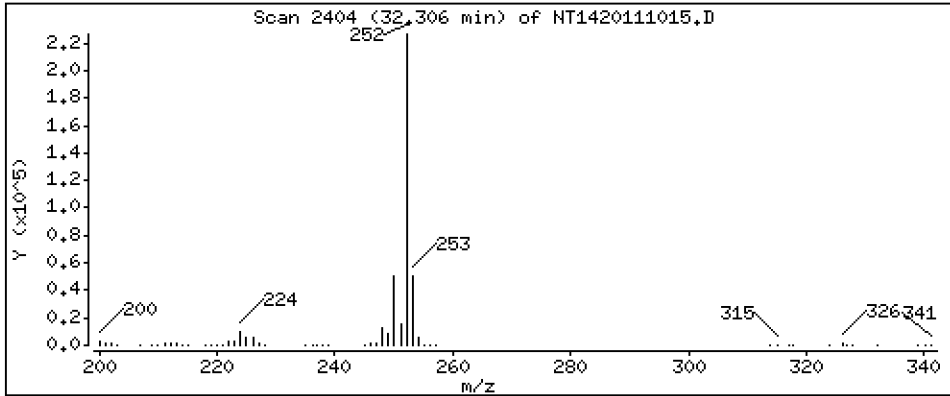
Operator: VTS

Column phase: Rxi-17Si1 MS

Column diameter: 0,25

63 Benzo(k)fluoranthene

Concentration: 3,250 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

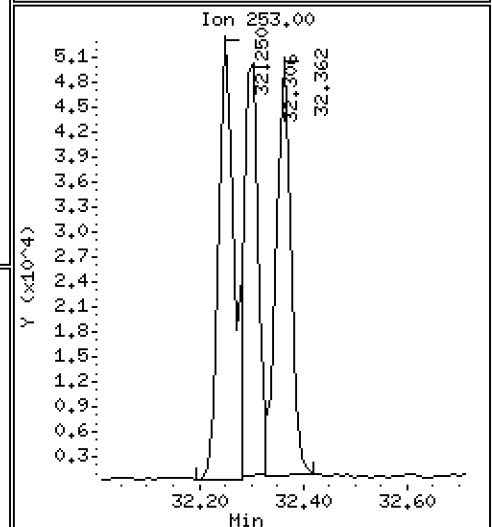
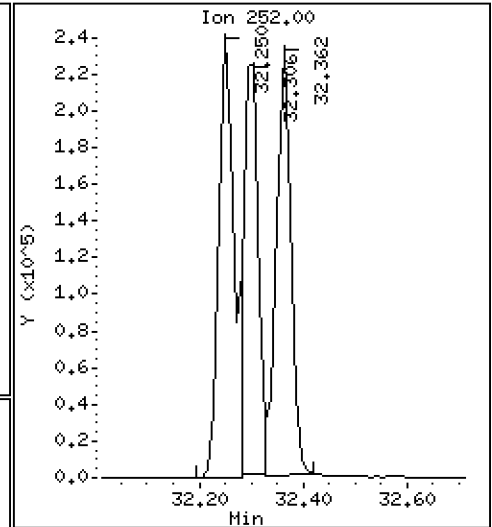
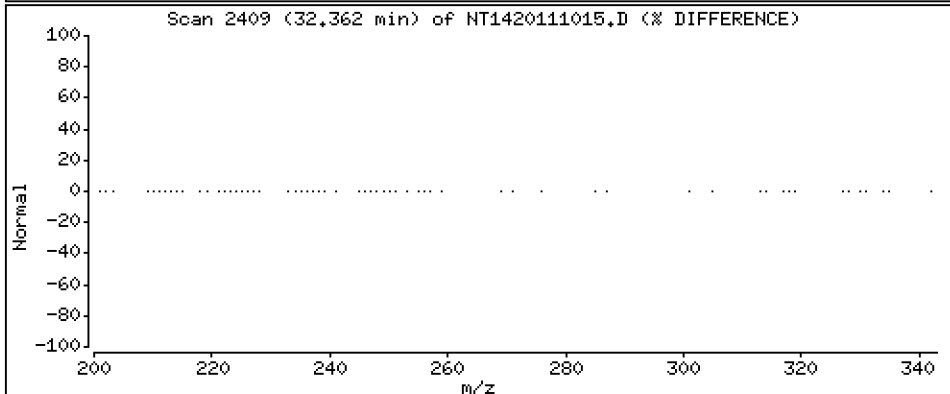
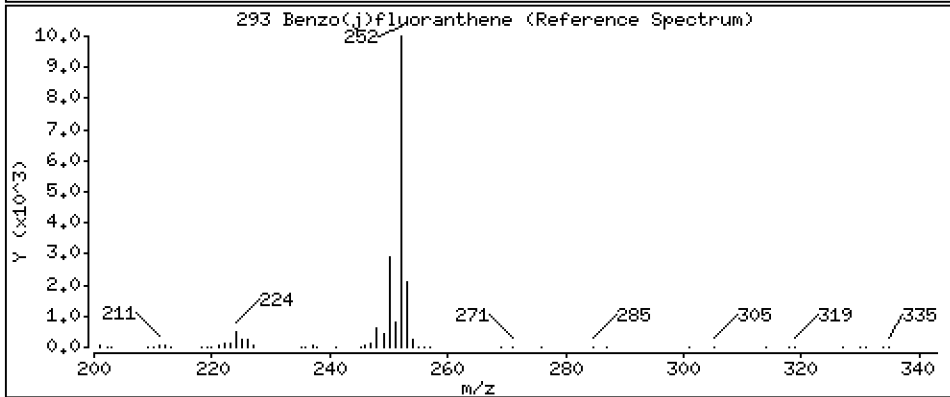
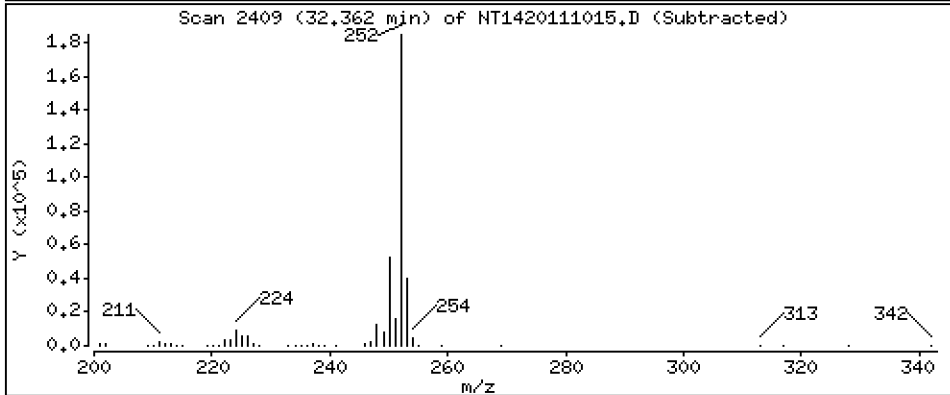
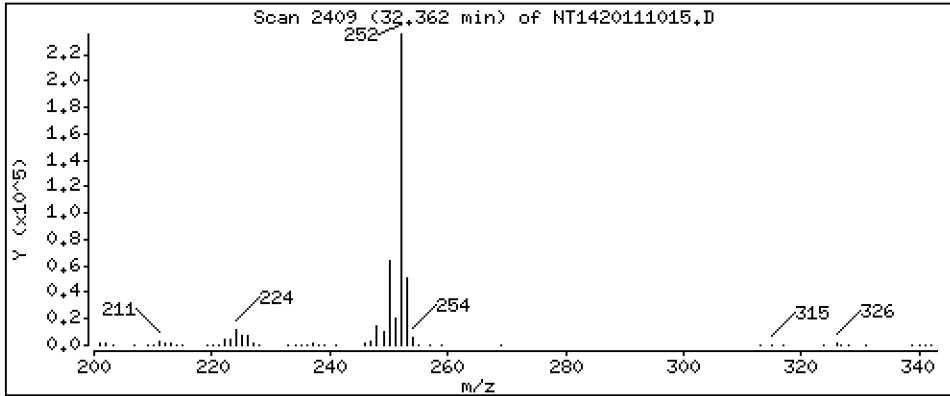
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

293 Benzo(j)fluoranthene

Concentration: 2,940 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

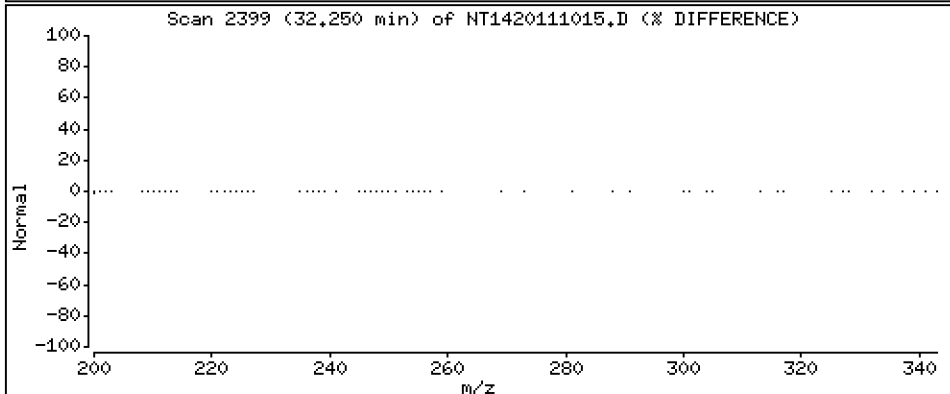
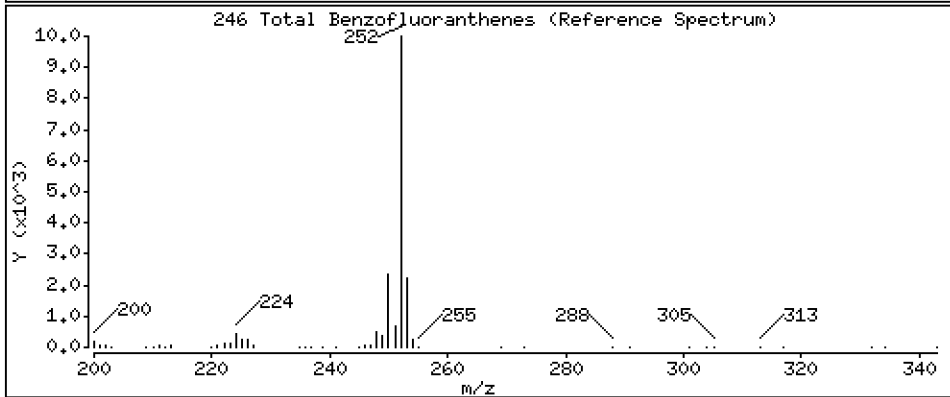
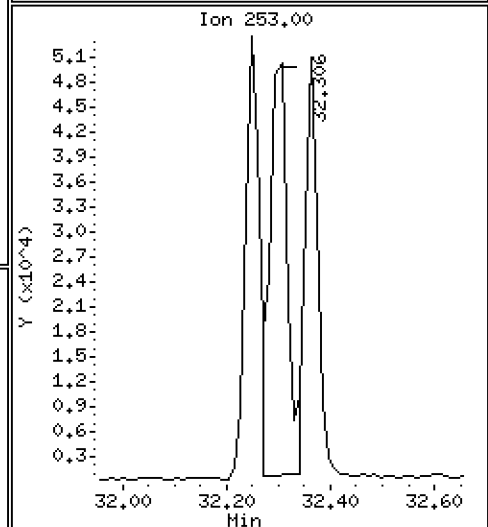
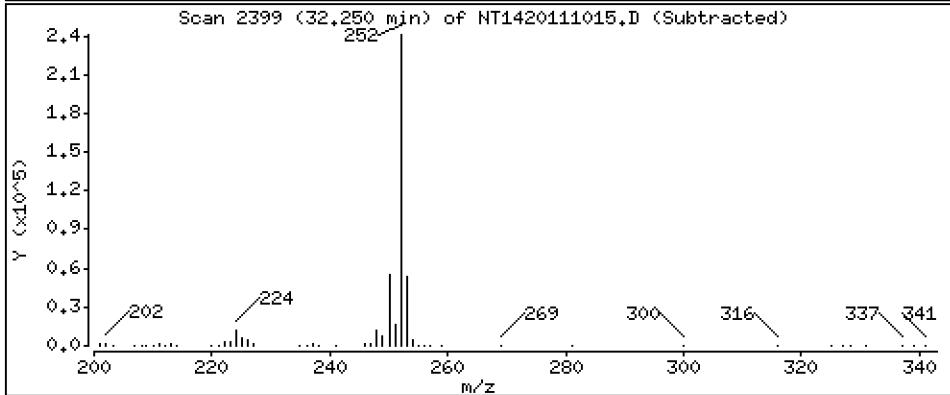
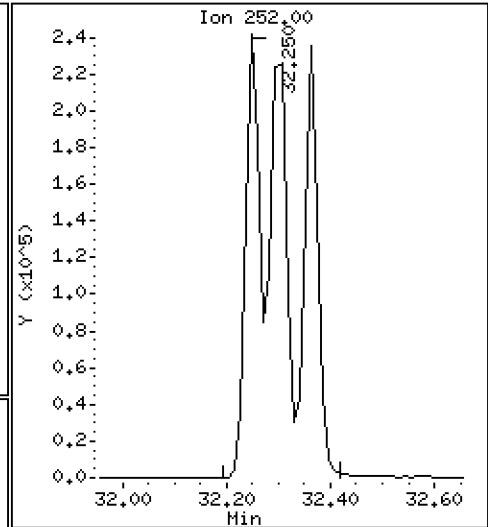
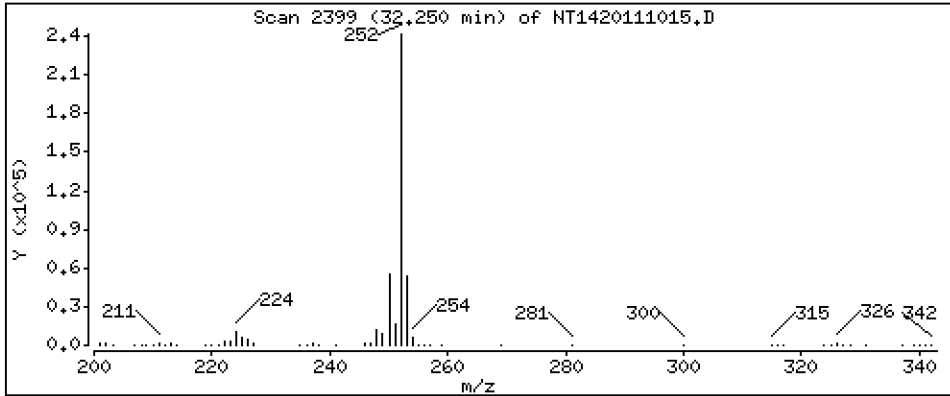
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

246 Total Benzofluoranthenes

Concentration: 9,044 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

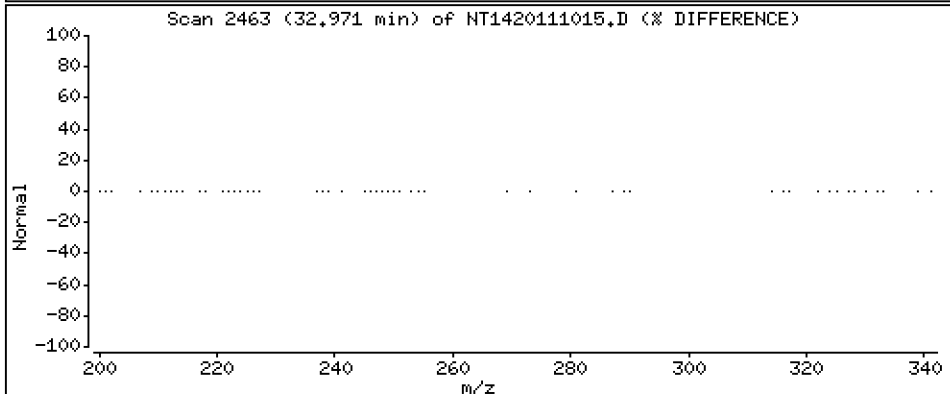
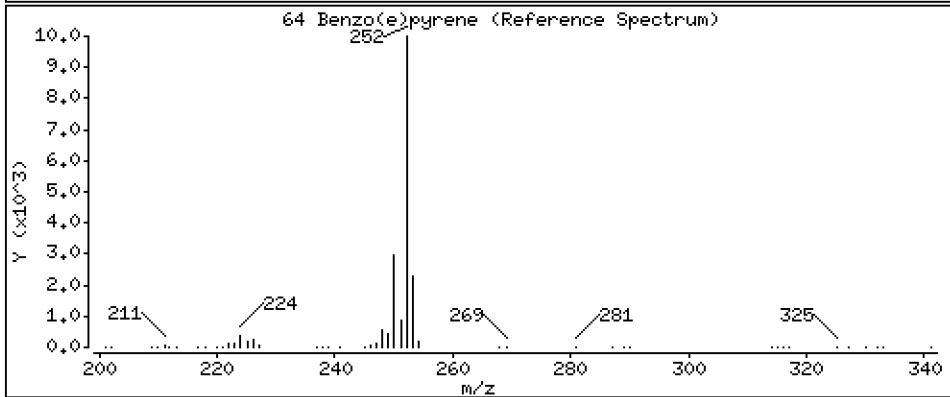
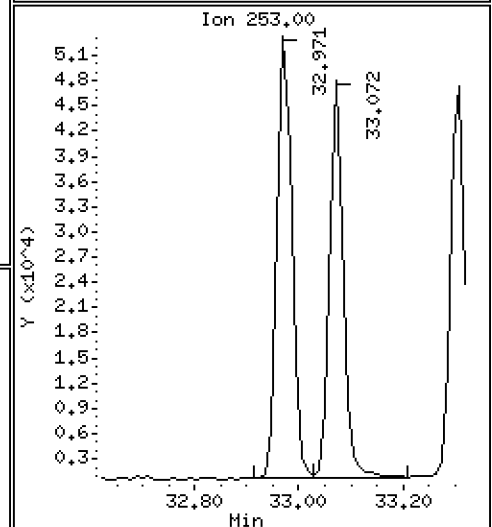
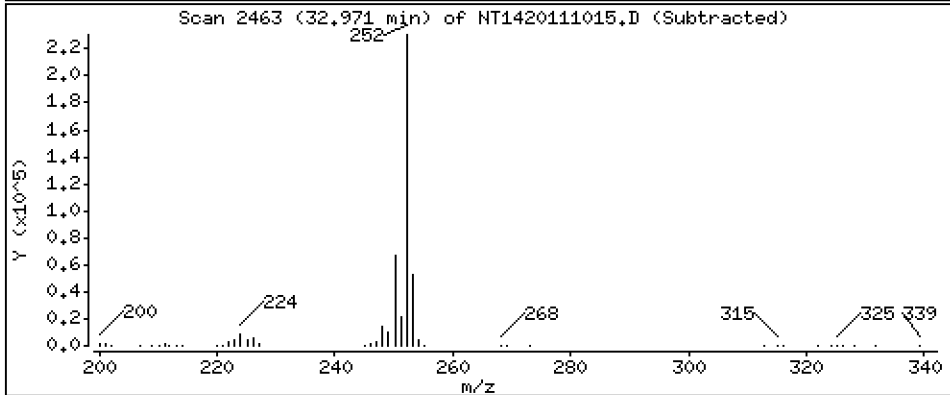
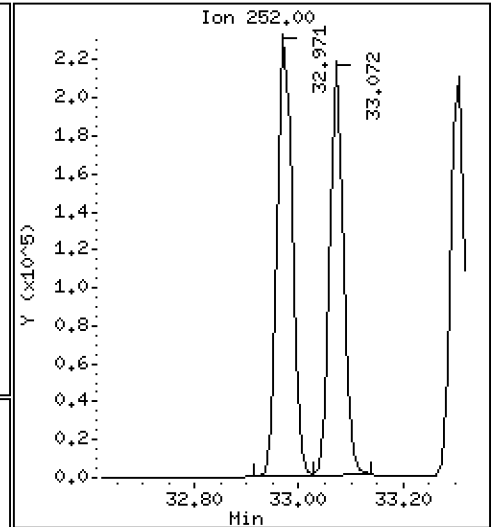
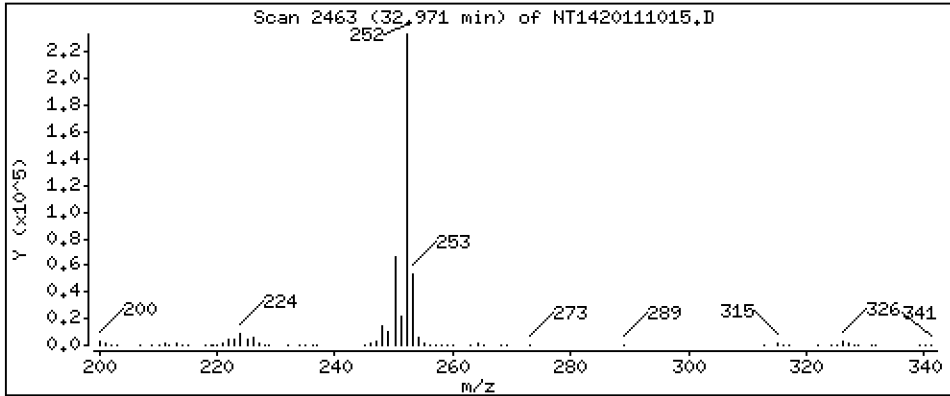
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

64 Benzo(e)pyrene

Concentration: 2,868 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

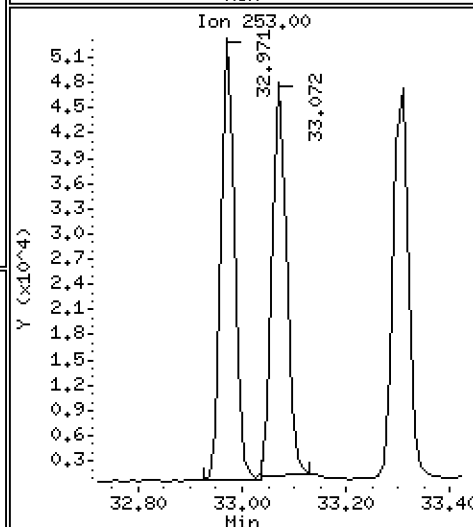
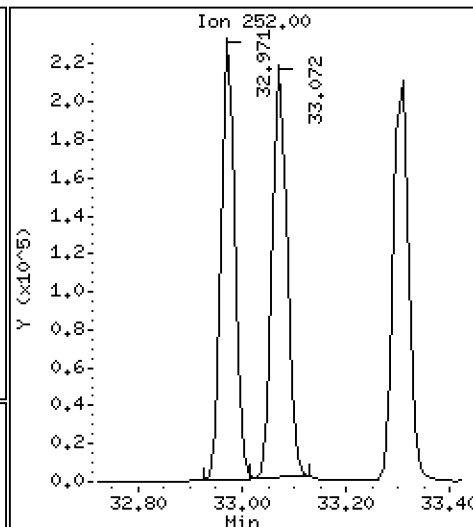
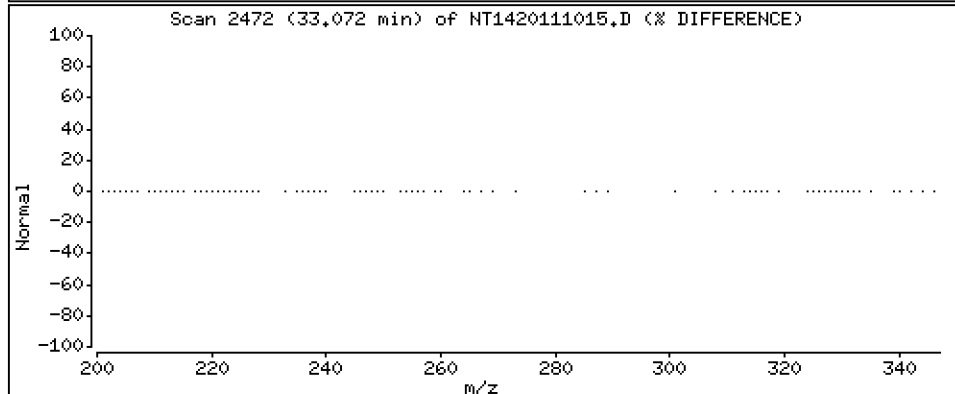
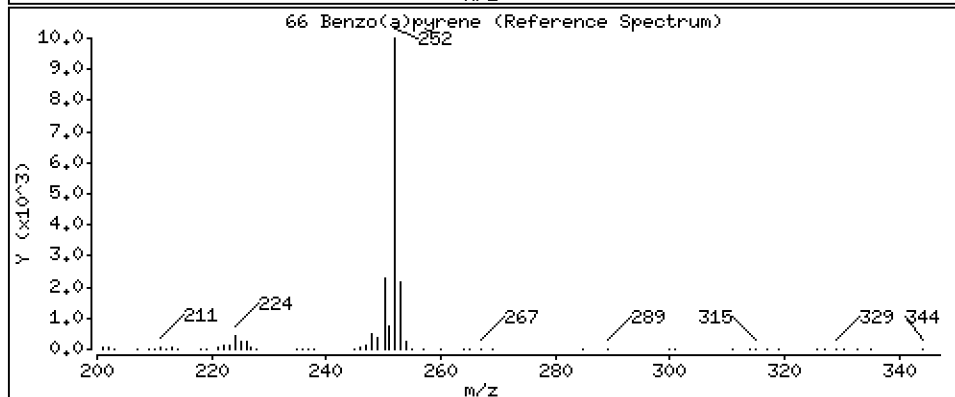
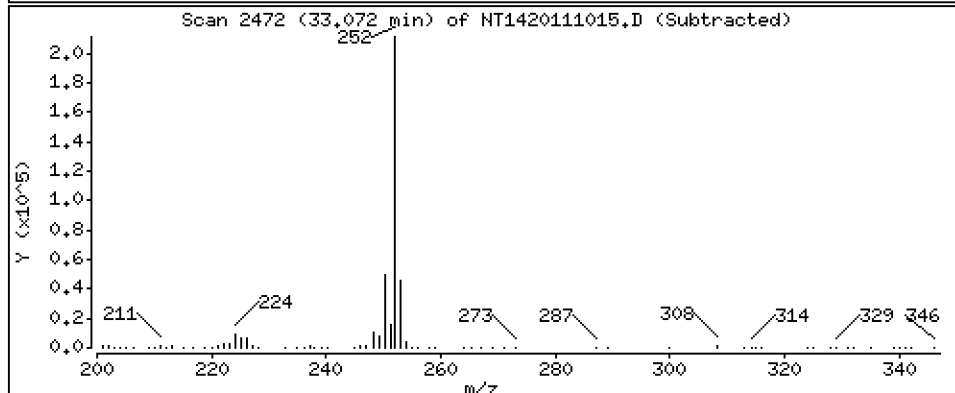
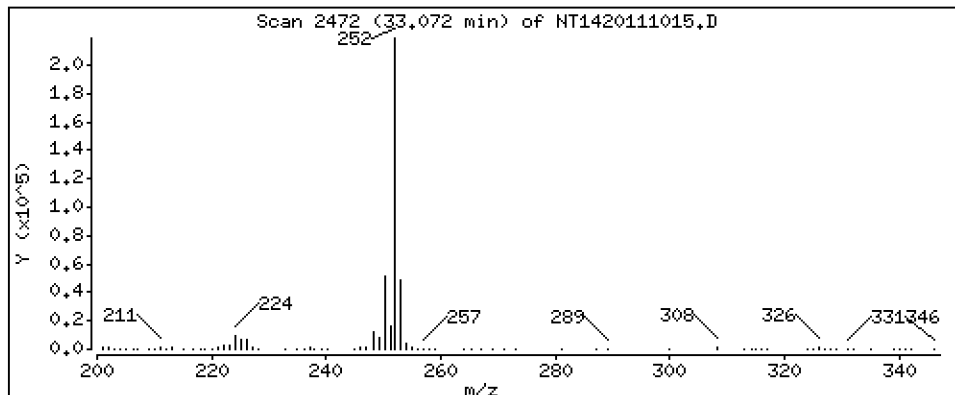
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

66 Benzo(a)pyrene

Concentration: 2,775 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

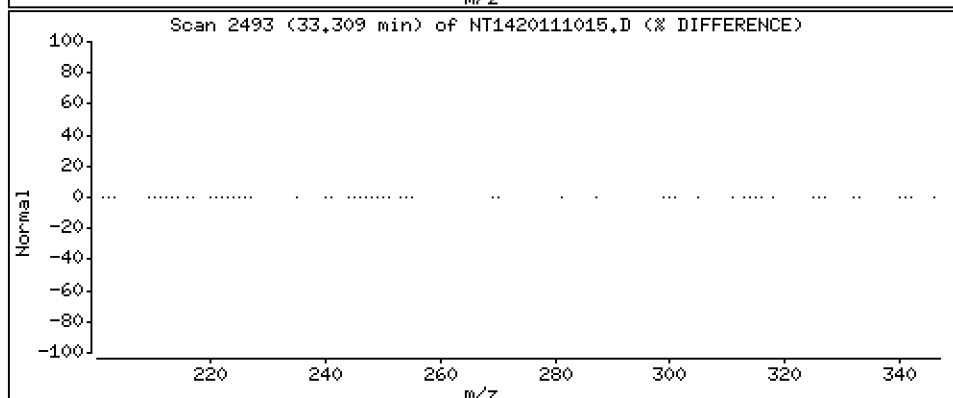
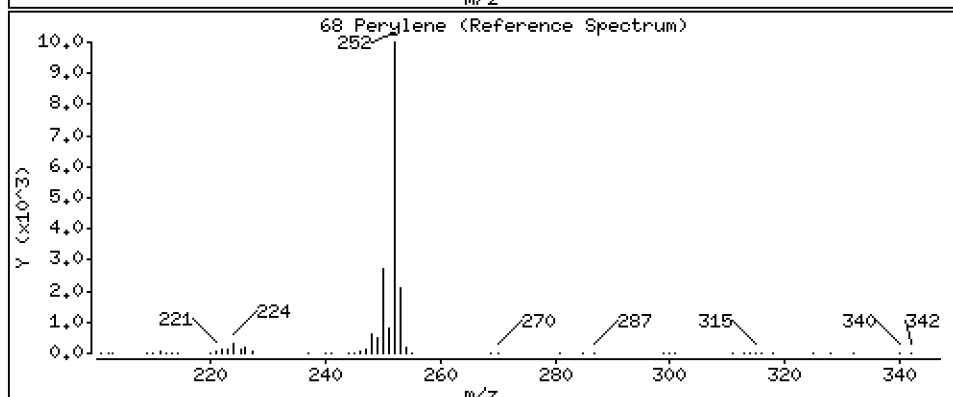
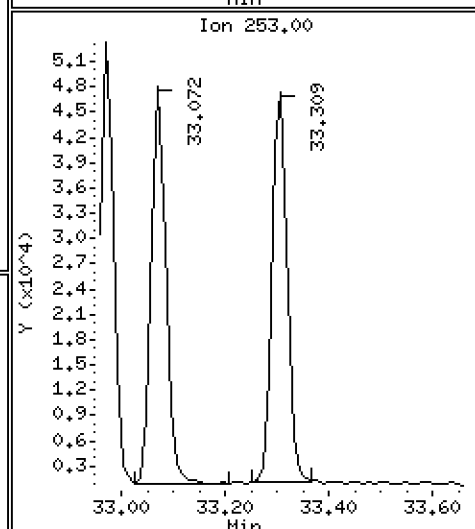
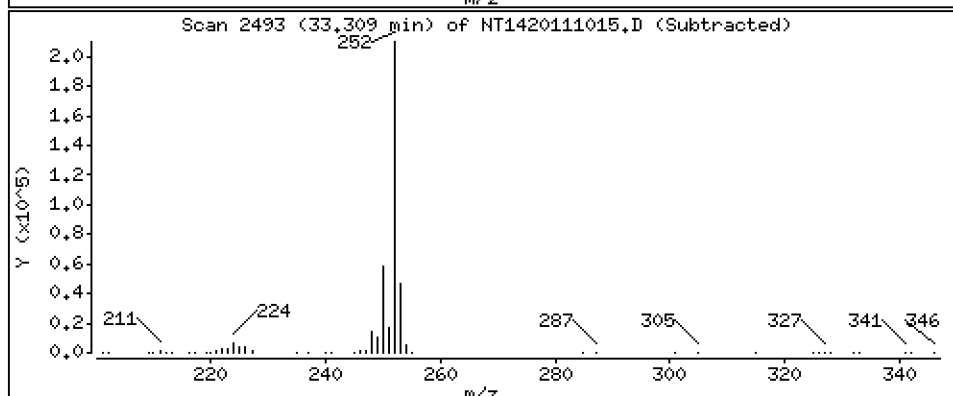
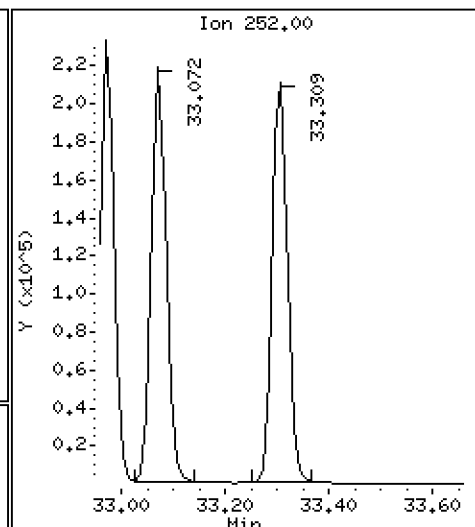
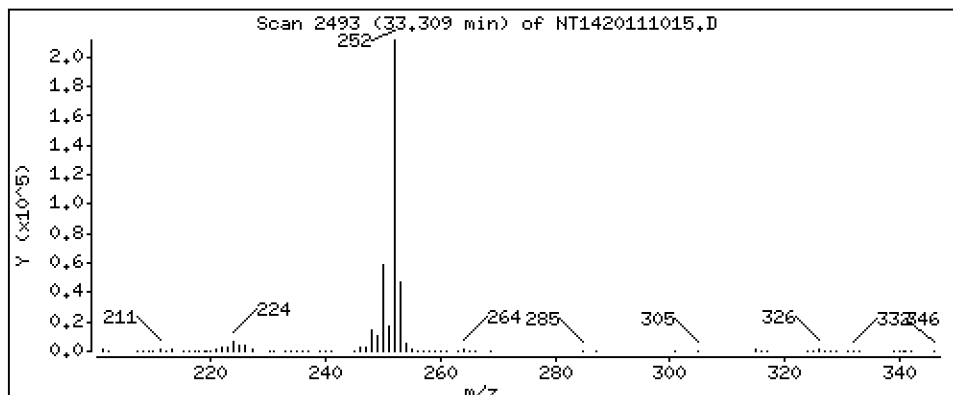
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

68 Perylene

Concentration: 2,668 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

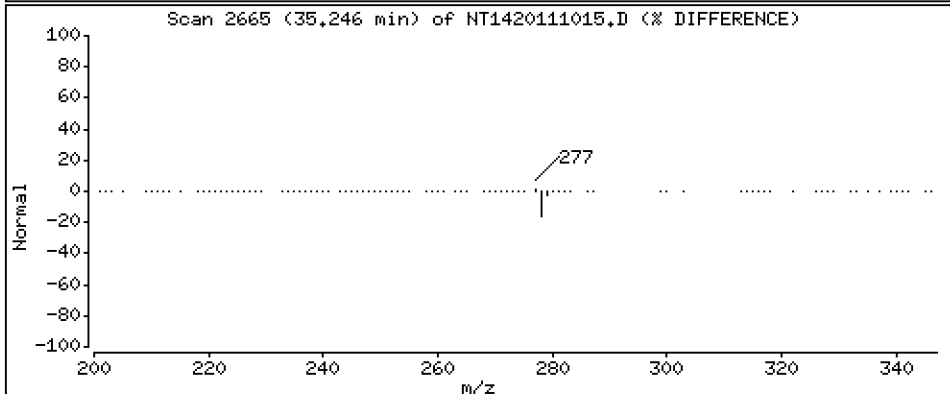
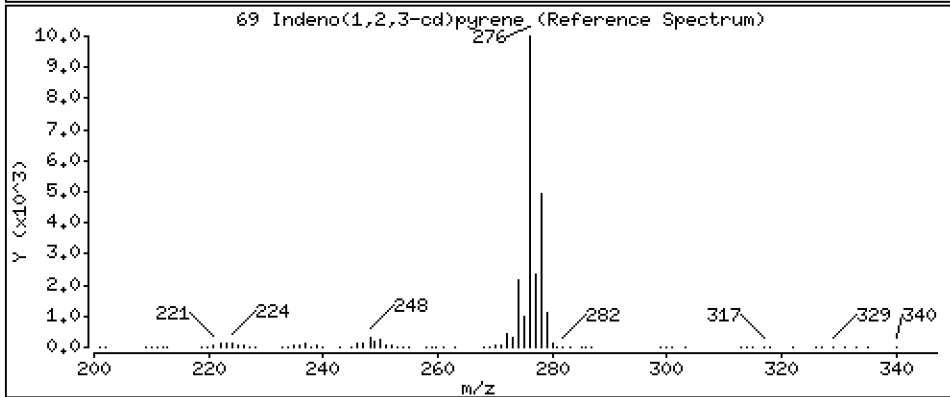
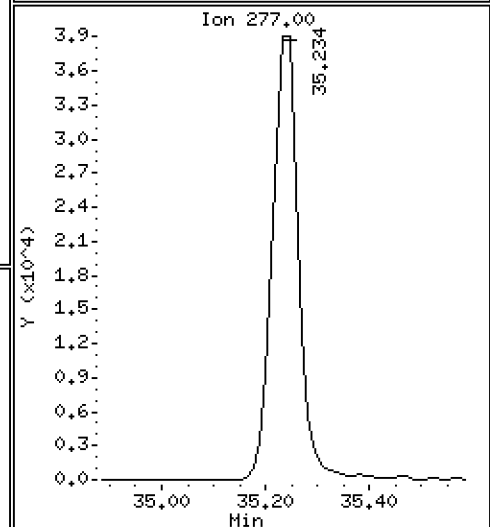
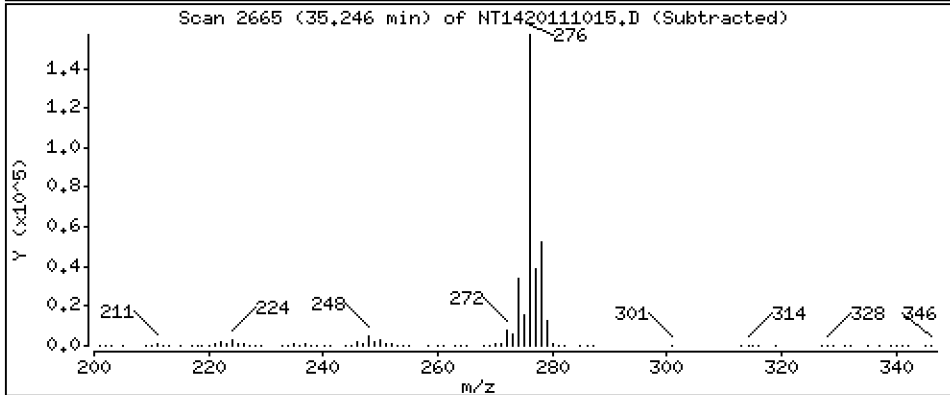
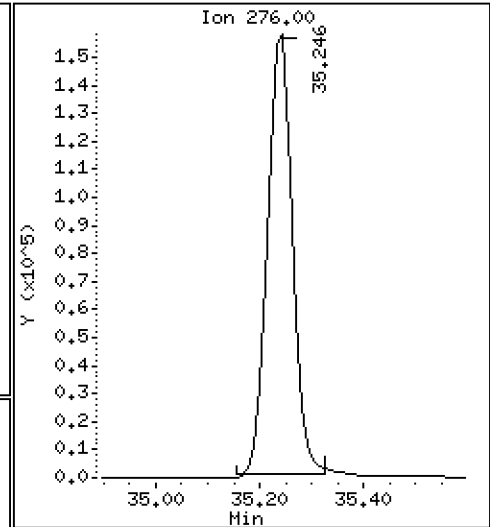
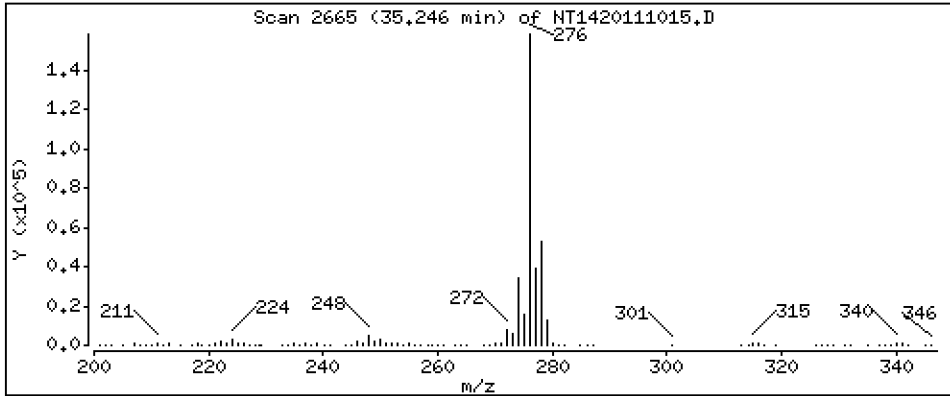
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

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

Concentration: 2,788 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

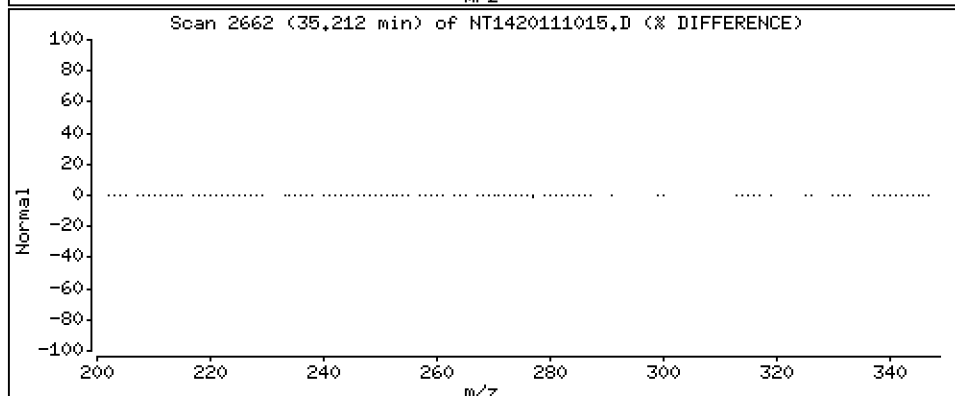
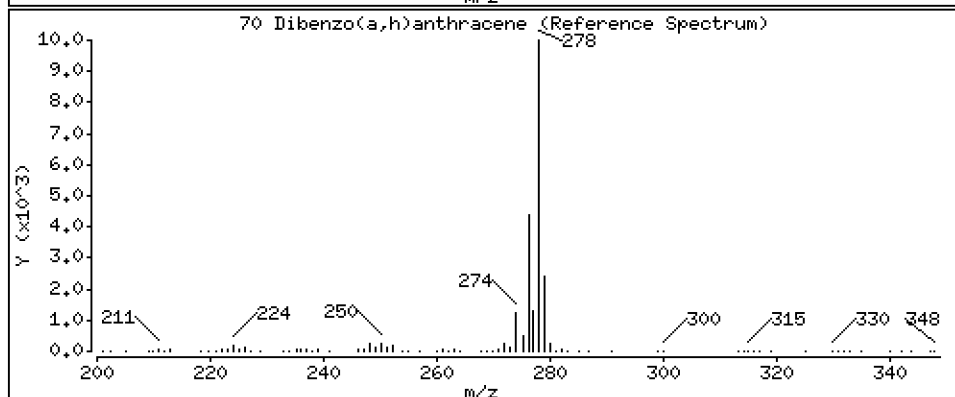
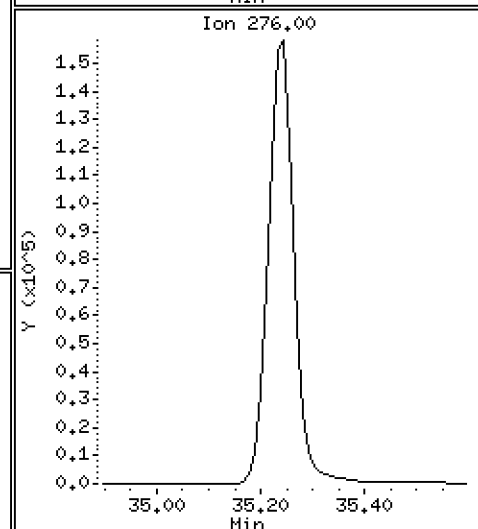
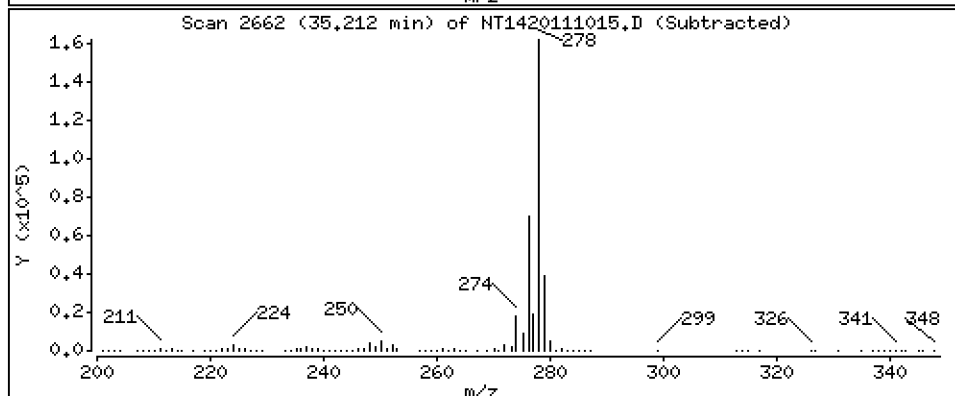
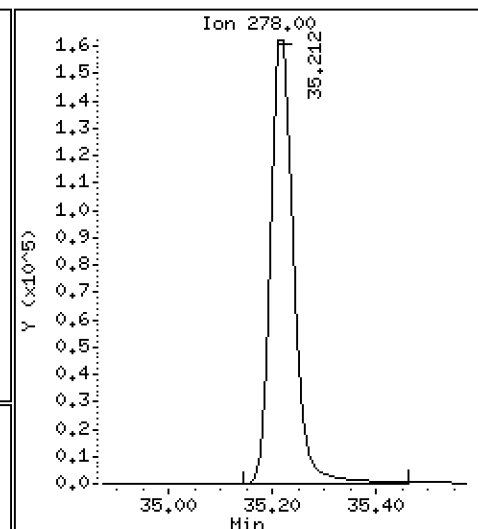
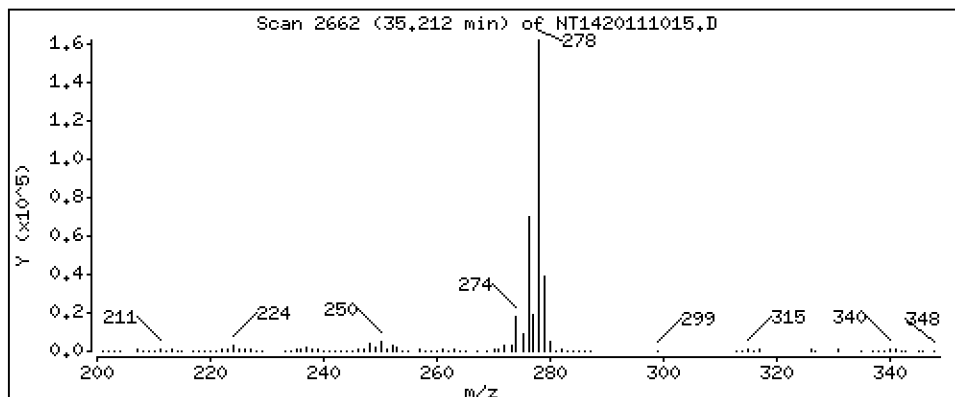
Operator: VTS

Column phase: Rxi-17Si1 MS

Column diameter: 0,25

70 Dibenzo(a,h)anthracene

Concentration: 3,054 ug/mL



Date : 10-NOV-2020 22:52

Client ID:

Instrument: nt14.i

Sample Info: BIJ0841-BS1

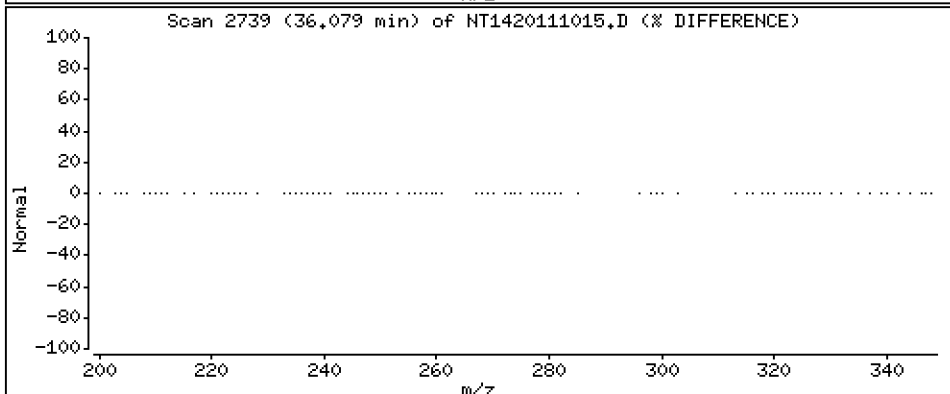
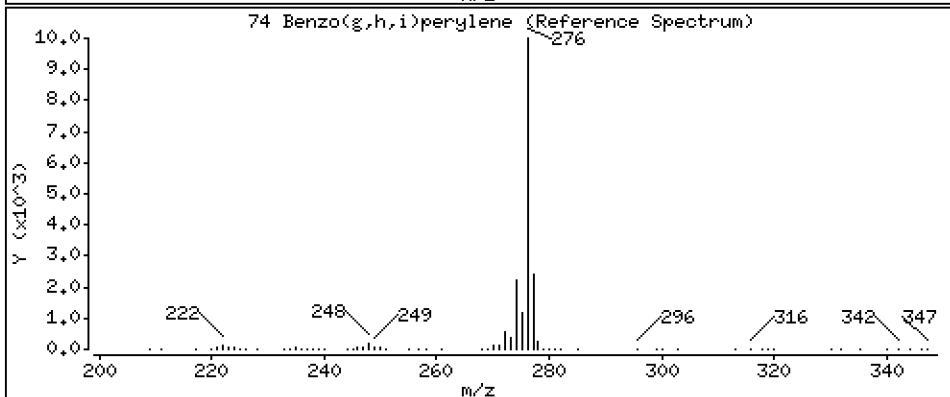
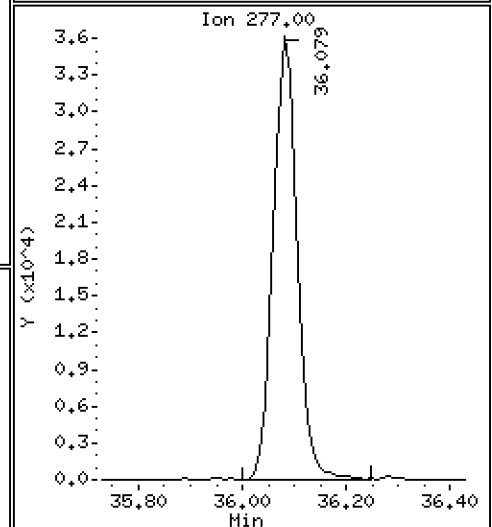
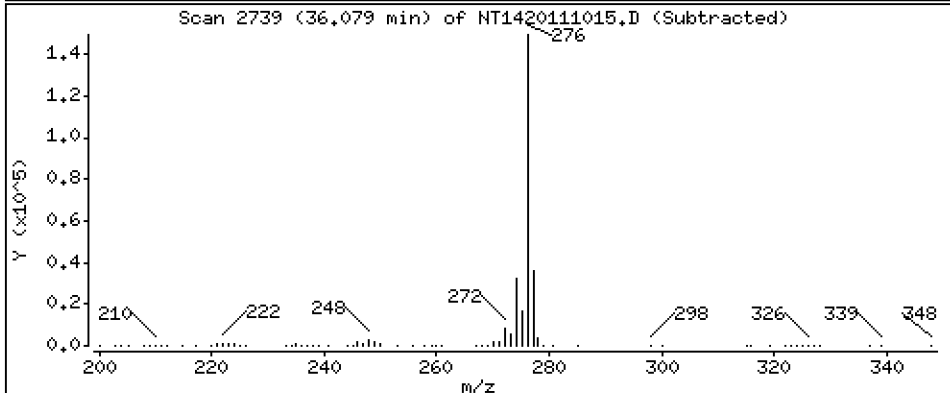
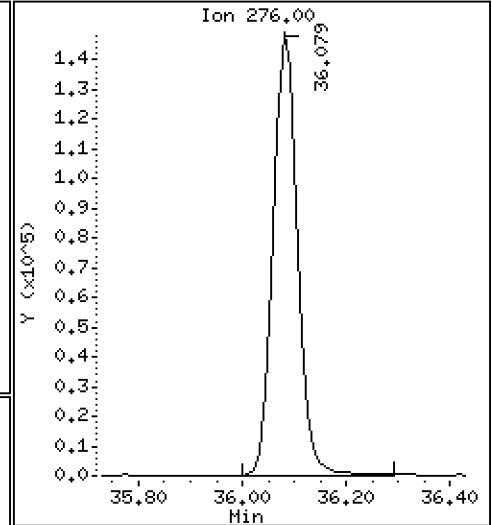
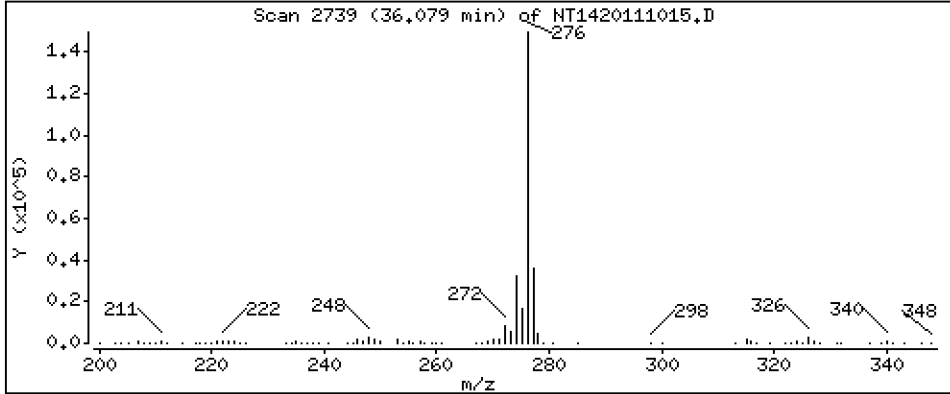
Operator: VTS

Column phase: Rxi-17Sil MS

Column diameter: 0,25

74 Benzo(g,h,i)perylene

Concentration: 2,963 ug/mL



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\NT1420111015.D
 Lab Smp Id: BIJ0841-BS1
 Inj Date : 10-NOV-2020 22:52
 Operator : VTS
 Smp Info : BIJ0841-BS1
 Misc Info :
 Comment : 1ul Injection
 Method : \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Meth Date : 12-Nov-2020 08:02 yev
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 13
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

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		6.924	6.924	(0.372)	3266	0.30217	0.3022
2 cis-Decalin	138		8.024	8.014	(0.431)	2798	0.34403	0.3440
\$ 6 Naphthalene-d8	136		11.608	11.630	(0.624)	228218	2.16278	2.163 (R)
7 Naphthalene	128		11.685	11.696	(0.628)	194231	1.83983	1.840
12 Benzo(b)thiophene	134		12.124	12.135	(0.652)	168677	1.90156	1.902
16 2-Methylnaphthalene	141		13.509	13.520	(0.726)	114947	1.78615	1.786
17 1-methylnaphthalene	141		13.960	13.971	(0.750)	113892	1.74566	1.746
18 Biphenyl	154		15.158	15.158	(0.815)	179338	1.85160	1.852
19 2,6-Dimethylnaphthalene	156		15.234	15.246	(0.819)	117931	1.66783	1.668
20 Acenaphthylene	152		16.795	16.806	(0.902)	234455	2.02217	2.022
\$ 21 Acenaphthene-d10	164		17.070	17.092	(0.917)	135815	2.14342	2.143 (R)
22 Acenaphthene	153		17.191	17.202	(0.924)	151356	1.99273	1.993
23 Dibenzofuran	168		17.564	17.575	(0.944)	231016	2.09654	2.097
24 1,6,7-Trimethylnaphthalene	170		17.795	17.806	(0.956)	146340	2.04132	2.041
* 25 Fluorene-d10	176		18.610	18.621	(1.000)	258612	2.00000	
26 Fluorene	166		18.712	18.723	(1.005)	186218	2.16785	2.168
30 Dibenzothiophene	184		21.626	21.626	(1.162)	300682	2.43217	2.432
\$ 35 Phenanthrene-d10	188		21.930	21.941	(0.995)	335240	2.80958	2.810 (R)
36 Phenanthrene	178		22.018	22.029	(0.999)	314662	2.28077	2.281
* 250 Anthracene-d10	188		22.051	22.062	(1.000)	249125	2.00000	
37 Anthracene	178		22.117	22.128	(1.003)	308713	2.27685	2.277
42 Carbazole	167		23.403	23.414	(1.061)	302683	2.57784	2.578
43 1-Methylphenanthrene	192		23.843	23.854	(1.081)	269014	2.65655	2.657
44 Fluoranthene	202		25.822	25.822	(1.171)	413549	2.71592	2.716
46 Pyrene	202		26.679	26.679	(1.210)	432938	2.69441	2.694
51 Naphthobenzothiophene	234		29.234	29.234	(1.326)	376622	2.57157	2.572
55 Benzo(a)anthracene	228		29.828	29.828	(0.906)	507875	3.43113	3.431
\$ 56 Chrysene-d12	240		29.952	29.952	(0.910)	327915	2.80502	2.805 (R)
57 Chrysene	228		30.019	30.031	(0.912)	427770	2.90766	2.908
62 Benzo(b)fluoranthene	252		32.249	32.249	(0.980)	542830	3.24794	3.248
63 Benzo(k)fluoranthene	252		32.306	32.306	(0.982)	547539	3.25041	3.250
293 Benzo(j)fluoranthene	252		32.362	32.362	(0.983)	432893	2.93989	2.940
246 Total Benzofluoranthenes	252		32.249	32.306	(0.980)	1402525	9.04438	9.044 (M)

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/mL)	FINAL (ug/mL)
* 251 Benzo(e)pyrene-d12	264	32.914	32.914	(1.000)	342872	2.00000	
64 Benzo(e)pyrene	252	32.970	32.970	(1.002)	438911	2.86825	2.868
66 Benzo(a)pyrene	252	33.072	33.072	(1.005)	401149	2.77459	2.775
\$ 67 Perylene-d12	264	33.252	33.252	(1.010)	357921	2.52453	2.525(R)
68 Perylene	252	33.308	33.308	(1.012)	405095	2.66756	2.668
69 Indeno(1,2,3-cd)pyrene	276	35.245	35.245	(1.071)	499115	2.78775	2.788(M)
70 Dibenzo(a,h)anthracene	278	35.212	35.223	(1.070)	483064	3.05392	3.054
74 Benzo(g,h,i)perylene	276	36.079	36.079	(1.096)	465995	2.96272	2.963

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
Lab File ID: NT1420111015.D
Lab Smp Id: BIJ0841-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
Misc Info:

Calibration Date: 10-NOV-2020
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	314961	157481	629922	258612	-17.89
250 Anthracene-d10	299129	149565	598258	249125	-16.72
251 Benzo(e)pyrene-d1	453248	226624	906496	342872	-24.35

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.61	-0.06
250 Anthracene-d10	22.06	21.56	22.56	22.05	-0.05
251 Benzo(e)pyrene-d1	32.91	32.41	33.41	32.91	-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 - NT1420111015.D

Lab ID: BIJ0841-BS1

nt14.i, 20201110.b\ALKYLPNA.m, 10-NOV-2020 22:52

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

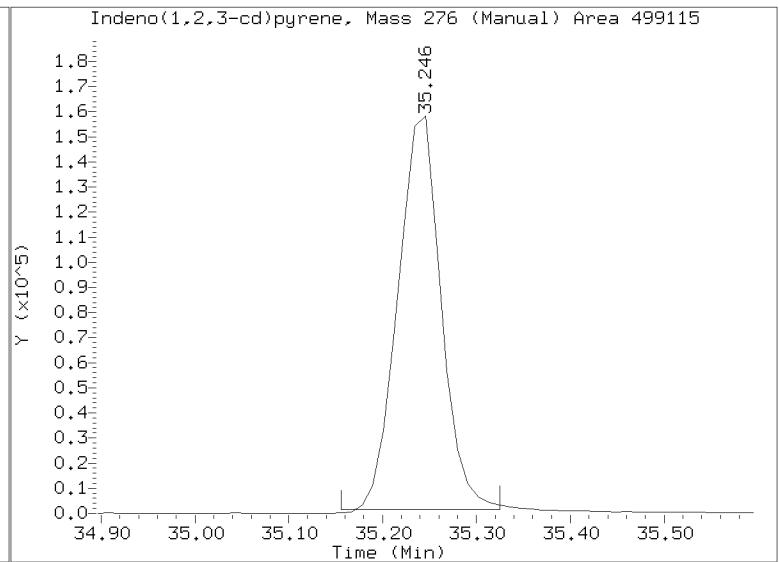
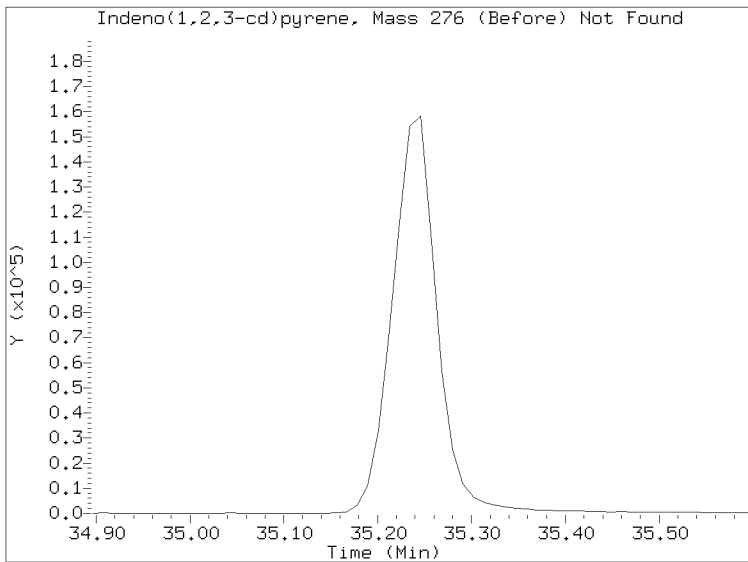
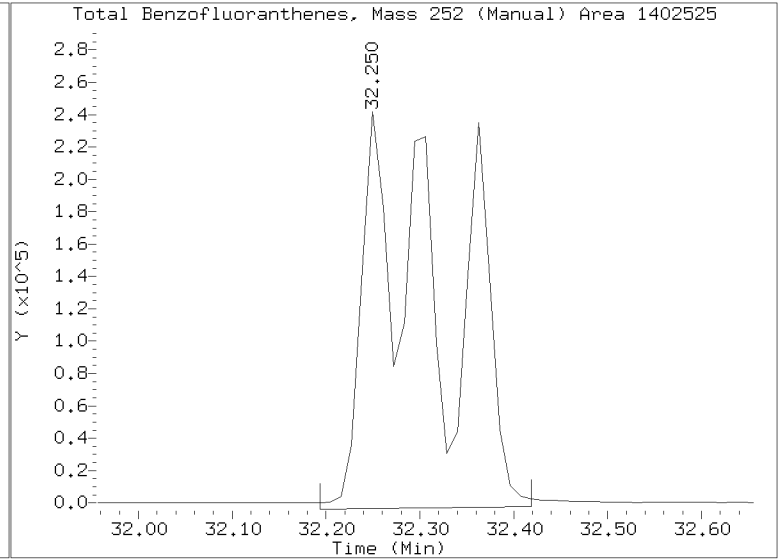
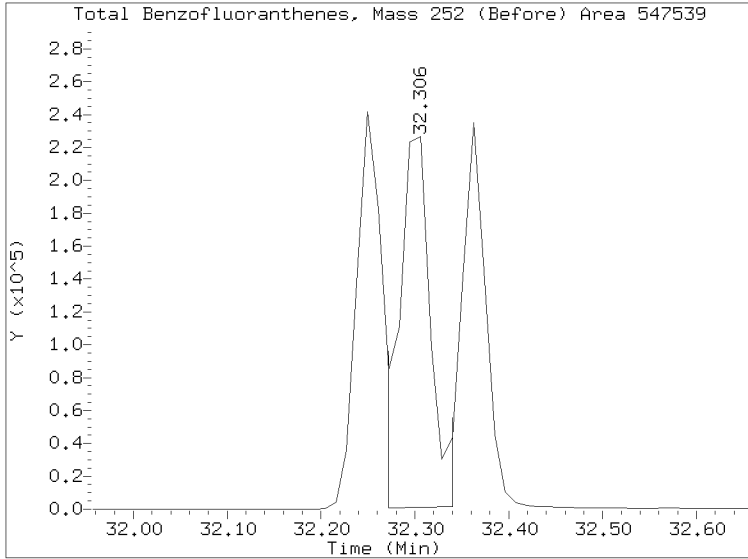
RRT check based on Ccal File: NT1420111004.D

On Column LOD for nt14.i, 20201110.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/20201110.b/NT1420111015.D
Injection Date: 10-NOV-2020 22:52
Lab ID:BIJ0841-BS1 Client ID:
Report Date: 11/12/2020 08:03





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

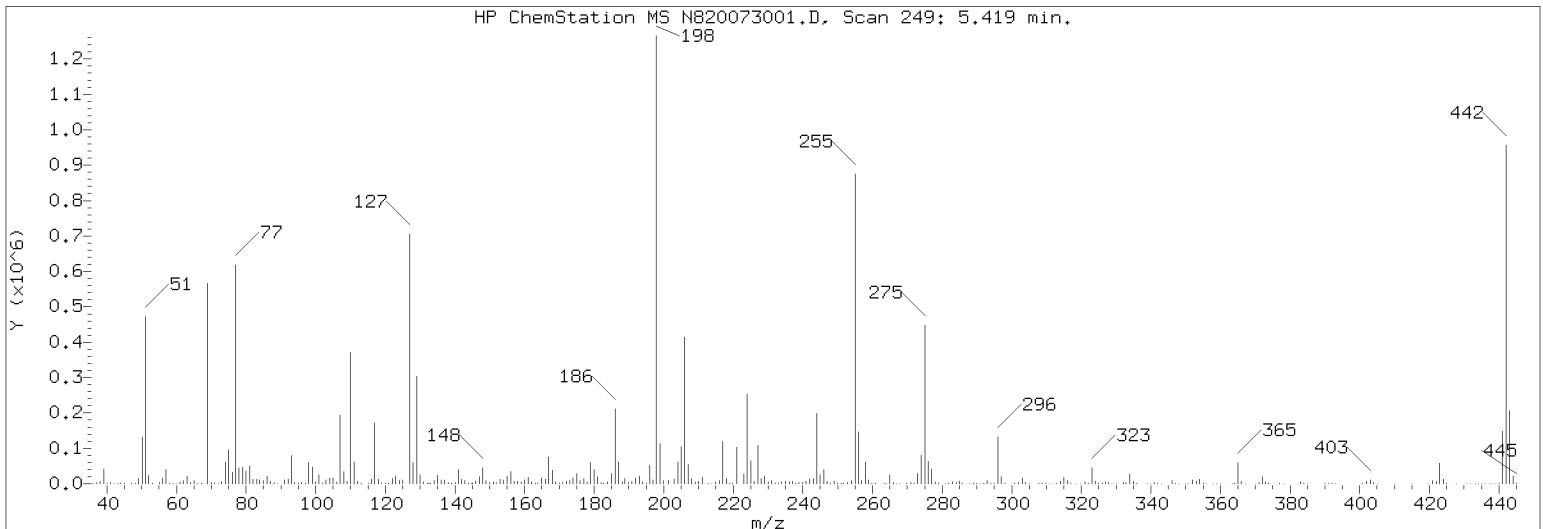
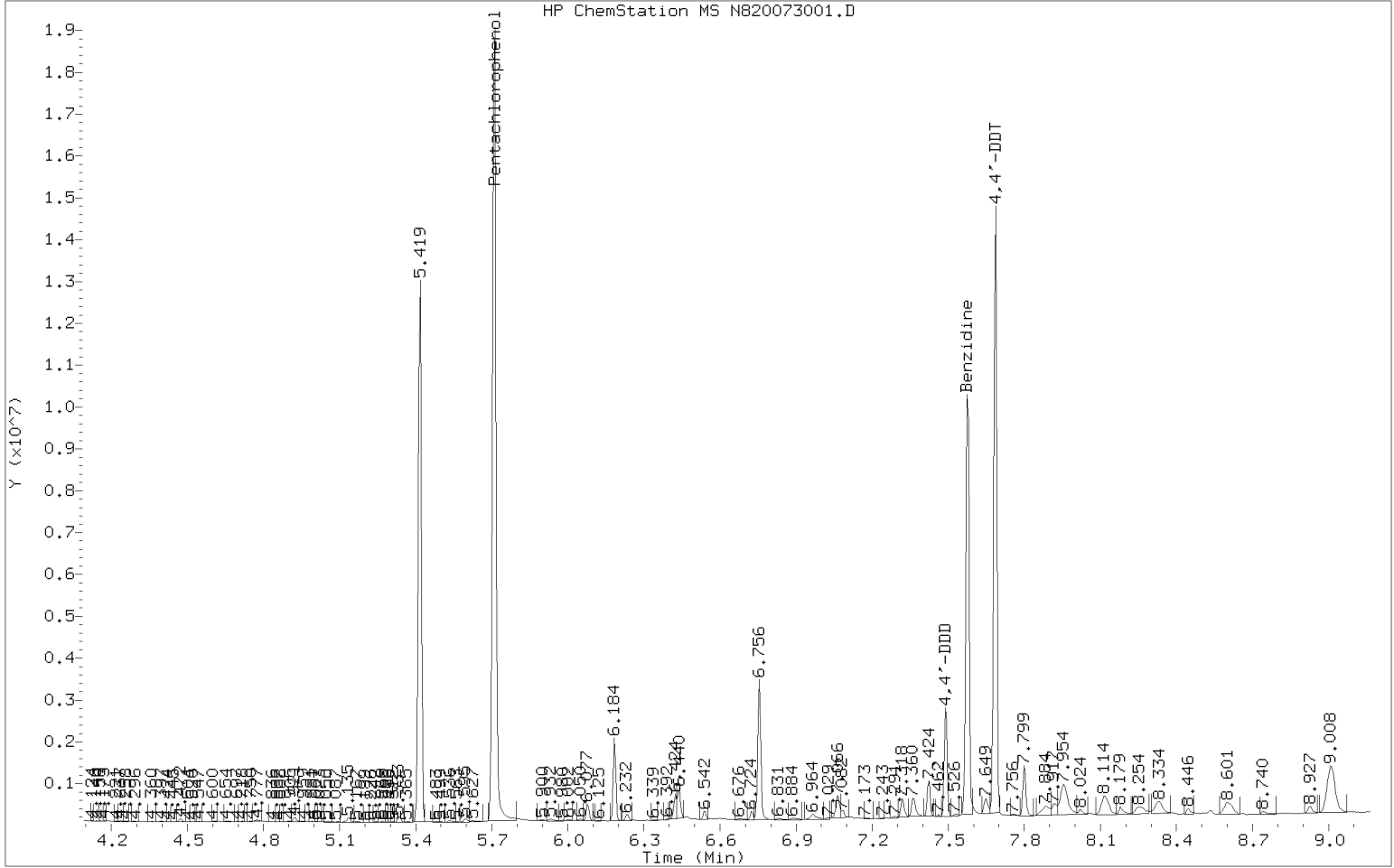
Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Lab File ID: <u>N820073001.D</u>	Injection Date: <u>07/30/20</u>
Instrument ID: <u>NT8</u>	Injection Time: <u>11:31</u>
Sequence: <u>SIG0417</u>	Lab Sample ID: <u>SIG0417-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0.194	PASS
69	Less than 100% of 198	45.4	PASS
70	Less than 2% of 69	0.592	PASS
197	Less than 2% of 198	1.01	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	8.52	PASS
365	1 - 100% of 198	4.51	PASS
441	Less than 150% of 443	73.2	PASS
442	1 - 200% of 198	78	PASS
443	15 - 24% of 442	21.2	PASS
4,4'-DDD	Less than 20% of		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

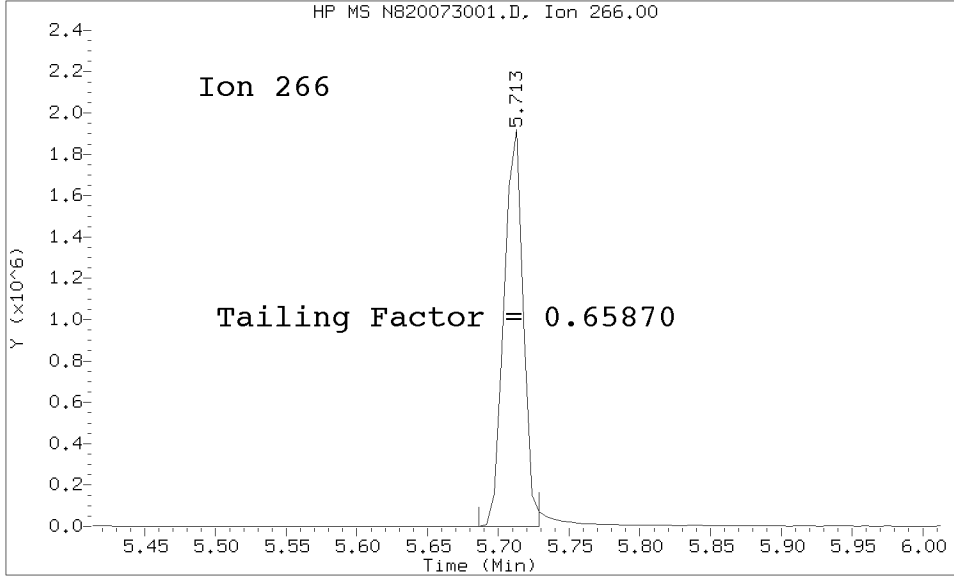
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SIG0417-TUN1	N820073001.D	07/30/2020	11:31
Cal Standard	SIG0417-CAL4	N820073002.D	07/30/2020	12:23
Cal Standard	SIG0417-CAL1	N820073003.D	07/30/2020	12:40
Cal Standard	SIG0417-CAL2	N820073004.D	07/30/2020	12:57
Cal Standard	SIG0417-CAL3	N820073005.D	07/30/2020	13:13
Cal Standard	SIG0417-CAL5	N820073006.D	07/30/2020	13:29
Cal Standard	SIG0417-CAL6	N820073007.D	07/30/2020	13:46
Secondary Cal Check	SIG0417-SCV1	N820073008.D	07/30/2020	15:12
Instrument Blank	SIG0417-IBL1	N820073009.D	07/30/2020	17:09

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20200730.b/tune.b/N820073001.D/N820073001.D
 Method Used: \20200730.b\tune.b\DFTTBT.m Inst: nt8
 Injection Date: 30-JUL-2020 11:31 Operator: JZ
 Sample Info: SIG0417-TUN1 DFTPP200730
 Report Date: 07/30/2020 15:32



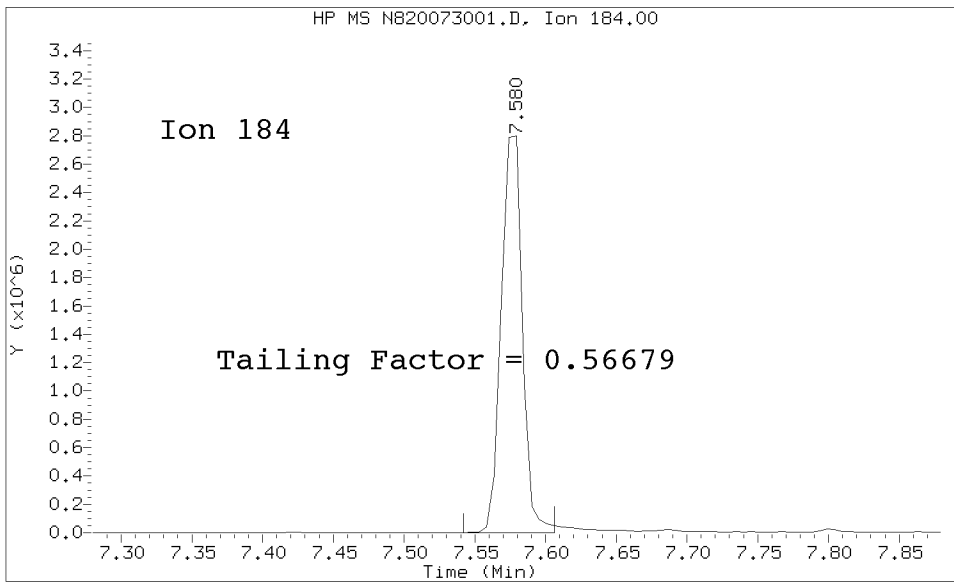
Datafile Analyzed: /20200730.b/tune.b/N820073001.D/N820073001.D
Method Used: \20200730.b\tune.b\DFTTBT.m\sw846ddt.m Inst: nt8
Injection Date: 30-JUL-2020 11:31 Operator: JZ
Sample Info: DFTPP200730
Report Date: 07/30/2020 15:32



Pentachlorophenol

=====
Exp. RT = 5.713
Found RT = 5.713

Tail Factor = 0.659 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.580
Found RT = 7.580

Tail Factor = 0.567 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6586957	2.000	PASS
Benzidine	0.5667939	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1818097			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	406932	18.3	20.0	PASS
4,4-DDD + DDE	406932	18.3	20.0	PASS

Tuning Sample, /nt8.i/20200730.b/tune.b/N820073001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.33
68	Less than 2.00% of mass 69	0.09 (0.19)
69	Mass 69 relative abundance	45.36
70	Less than 2.00% of mass 69	0.27 (0.59)
127	10.00 - 80.00% of mass 198	54.76
197	Less than 2.00% of mass 198	1.01
199	5.00 - 9.00% of mass 198	8.52
275	10.00 - 60.00% of mass 198	33.79
365	Greater than 1.00% of mass 198	4.51
441	0.01 - 24.00% of mass 442	12.12 (15.54)
442	50.00 - 200.00% of mass 198	78.02
443	15.00 - 24.00% of mass 442	16.57 (21.23)

Data File: N820073001.D

Spectrum: Avg. Scans 248-250 (5.42), Background Scan 242

Location of Maximum: 198.00

Number of points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1531	134.00	6673	226.00	4617	320.00	649
38.00	5727	135.00	16872	227.00	77216	321.00	3573
39.00	30408	136.00	7032	228.00	10259	322.00	1950
40.00	783	137.00	8346	229.00	14995	323.00	30576
41.00	849	138.00	2056	230.00	2857	324.00	5900
42.00	229	139.00	1193	231.00	6271	325.00	790
43.00	117	140.00	3086	232.00	1323	326.00	652
45.00	719	141.00	29384	233.00	1540	327.00	4438
49.00	186	142.00	9278	234.00	4602	328.00	2897
50.00	101120	143.00	6035	235.00	6292	329.00	427
51.00	348736	144.00	1928	236.00	4232	330.00	87
52.00	18176	145.00	2224	237.00	5560	331.00	189
53.00	440	146.00	5614	238.00	576	332.00	2382
55.00	2495	147.00	15170	239.00	3019	333.00	2990
56.00	12095	148.00	33344	240.00	2718	334.00	18960
57.00	27816	149.00	6447	241.00	4011	335.00	4899
58.00	1366	150.00	2222	242.00	8915	336.00	918
59.00	22	151.00	4242	243.00	10623	339.00	582
60.00	307	152.00	2901	244.00	141696	340.00	699
61.00	4955	153.00	8940	245.00	19032	341.00	3180
62.00	6336	154.00	6315	246.00	29136	342.00	1158
63.00	16322	155.00	15991	247.00	5826	343.00	140
64.00	2682	156.00	24272	248.00	1262	346.00	6741
65.00	7418	157.00	5172	249.00	4697	347.00	1494
66.00	578	158.00	5309	250.00	927	348.00	120
67.00	477	159.00	3988	251.00	1191	350.00	285
68.00	824	160.00	8408	252.00	1513	351.00	681
69.00	423744	161.00	13118	253.00	3868	352.00	7522
70.00	2508	162.00	3288	254.00	6479	353.00	5738
72.00	477	163.00	1130	255.00	641472	354.00	8649
73.00	3044	164.00	1831	256.00	105024	355.00	1680
74.00	46416	165.00	11337	257.00	7912	356.00	199
75.00	72296	166.00	8327	258.00	45768	358.00	118
76.00	25352	167.00	55184	259.00	7760	359.00	845
77.00	461312	168.00	27472	260.00	1223	360.00	310
78.00	33008	169.00	4588	261.00	1407	361.00	84
79.00	34624	170.00	1934	262.00	138	363.00	348
80.00	26664	171.00	2497	263.00	644	364.00	640
81.00	35680	172.00	5192	264.00	1220	365.00	42168
82.00	8647	173.00	6828	265.00	17920	366.00	5485
83.00	8335	174.00	11766	266.00	2993	367.00	532
85.00	6400	175.00	22032	267.00	153	370.00	667
86.00	10778	176.00	5393	268.00	299	371.00	2196
87.00	4251	177.00	11007	269.00	125	372.00	14485
88.00	1030	178.00	3455	270.00	1077	373.00	3474
89.00	865	179.00	44080	271.00	1731	374.00	605
90.00	229	180.00	28672	272.00	1742	377.00	343
91.00	7462	181.00	13642	273.00	20912	378.00	408
92.00	9443	182.00	2450	274.00	58680	379.00	84

93.00	58336	183.00	845	275.00	315712	383.00	3777
94.00	3578	184.00	3702	276.00	45080	384.00	1093
95.00	530	185.00	21072	277.00	29120	385.00	540
96.00	2594	186.00	154240	278.00	4167	389.00	99
97.00	1035	187.00	45200	279.00	1409	390.00	1657
98.00	44096	188.00	4769	281.00	275	391.00	1157
99.00	33816	189.00	10865	282.00	1043	392.00	1013
100.00	3058	190.00	1840	283.00	3224	393.00	293
101.00	19584	191.00	5058	284.00	2825	401.00	888
102.00	1180	192.00	11863	285.00	5383	402.00	5439
103.00	6495	193.00	15735	286.00	948	403.00	7304
104.00	12378	194.00	3452	288.00	320	404.00	2768
105.00	11331	195.00	1384	289.00	1338	405.00	447
106.00	4162	196.00	36352	290.00	1227	410.00	291
107.00	142848	197.00	9442	291.00	549	415.00	136
108.00	22880	198.00	934208	292.00	1074	419.00	90
109.00	4812	199.00	79608	293.00	6333	420.00	93
110.00	265024	200.00	6523	294.00	1244	421.00	6267
111.00	42688	201.00	6670	295.00	2347	422.00	4891
112.00	5000	203.00	8838	296.00	96808	423.00	45040
113.00	1855	204.00	43848	297.00	14795	424.00	9023
114.00	140	205.00	72448	298.00	1263	425.00	1205
115.00	385	206.00	293056	299.00	194	427.00	99
116.00	8426	207.00	39168	301.00	1514	428.00	90
117.00	125936	208.00	9811	302.00	2042	431.00	247
118.00	9339	209.00	2950	303.00	10714	432.00	254
119.00	1189	210.00	5393	304.00	3340	433.00	117
120.00	1754	211.00	13024	305.00	489	434.00	228
121.00	985	212.00	1231	306.00	126	435.00	430
122.00	10522	213.00	876	308.00	1463	436.00	463
123.00	16656	214.00	685	309.00	1019	437.00	512
124.00	7328	215.00	4198	310.00	1156	438.00	656
125.00	7114	216.00	6584	311.00	349	439.00	230
126.00	322	217.00	83712	312.00	272	440.00	447
127.00	511552	218.00	10760	313.00	1079	441.00	113264
128.00	44352	219.00	910	314.00	4881	442.00	728832
129.00	220096	220.00	1067	315.00	11341	443.00	154752
130.00	18968	221.00	70432	316.00	5490	444.00	14649
131.00	3978	223.00	18384	317.00	1350	445.00	919
132.00	2756	224.00	178752	318.00	213		
133.00	540	225.00	46080	319.00	107		



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

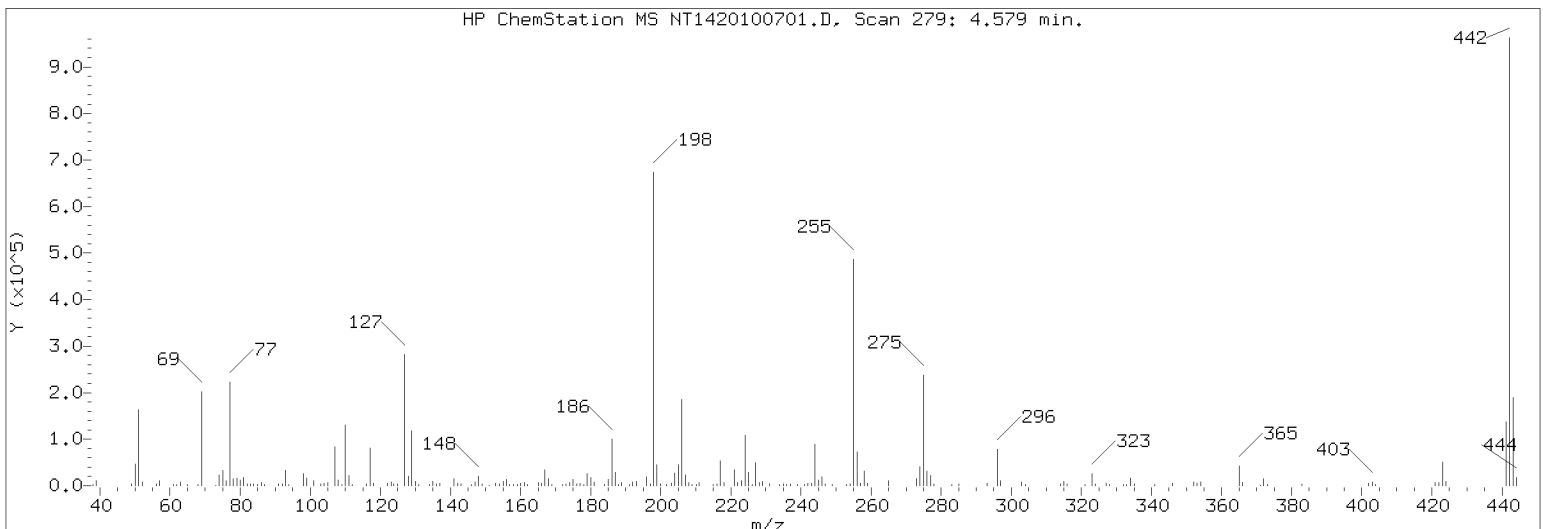
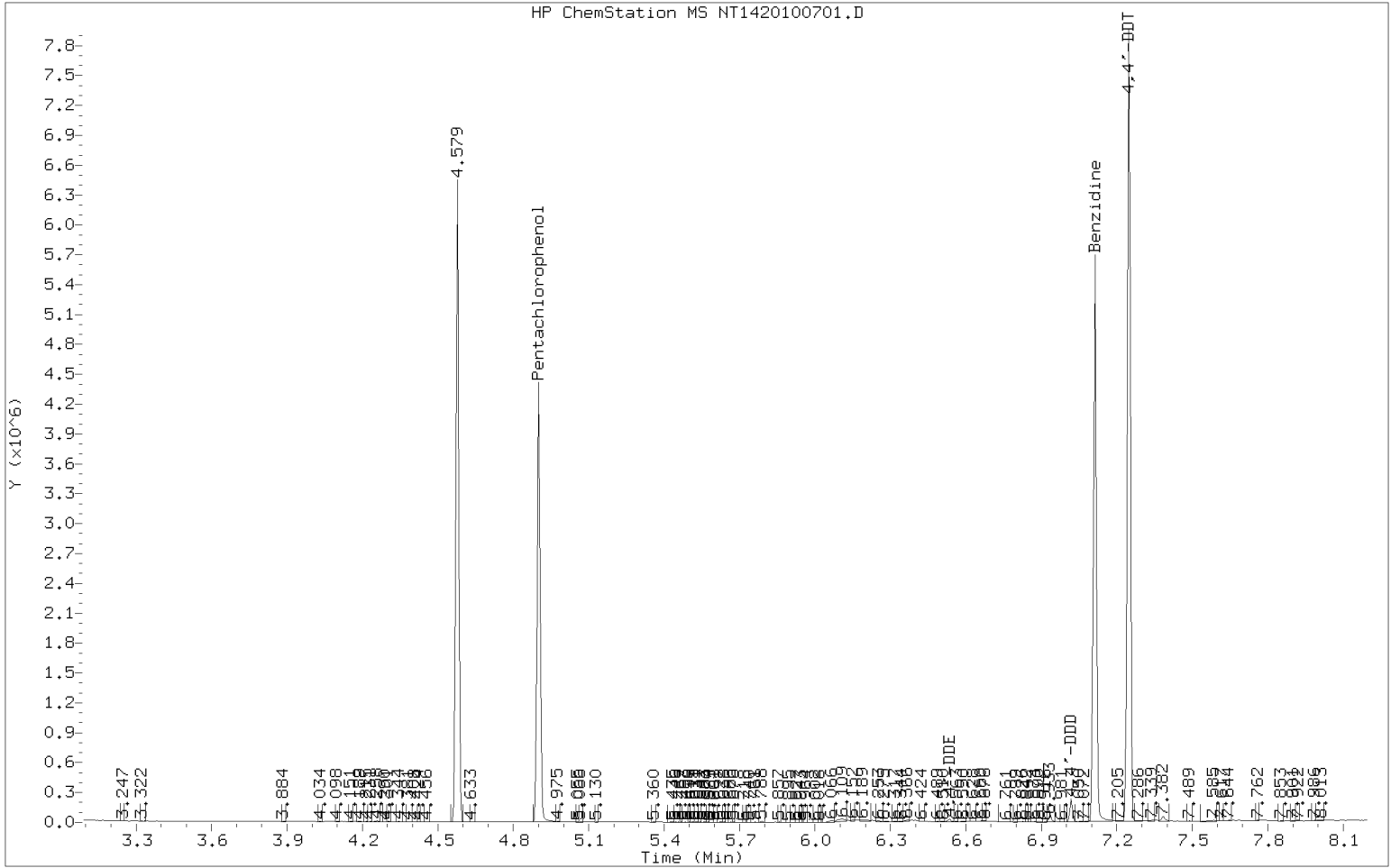
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Lab File ID:	<u>NT1420100701.D</u>	Injection Date:	<u>10/07/20</u>
Instrument ID:	<u>NT14</u>	Injection Time:	<u>10:11</u>
Sequence:	<u>SIJ0085</u>	Lab Sample ID:	<u>SIJ0085-TUN1</u>

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.44	PASS
69	Less than 100% of 198	31.9	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.461	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.65	PASS
365	1 - 100% of 198	6.47	PASS
441	Less than 150% of 443	73.3	PASS
442	1 - 200% of 198	141	PASS
443	15 - 24% of 442	19.5	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Less than 200% of		

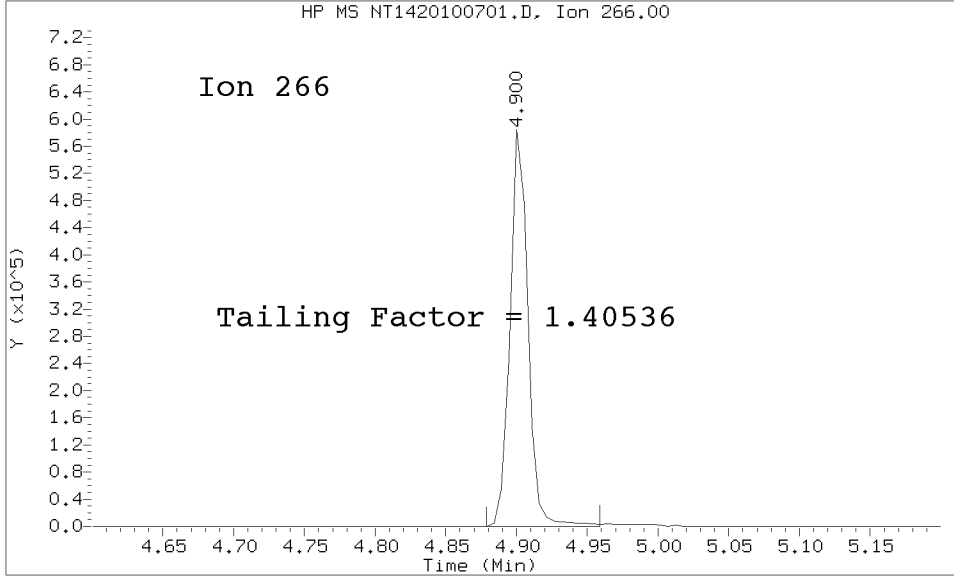
Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SIJ0085-TUN1	NT1420100701.D	10/07/2020	10:11
Cal Standard	SIJ0085-CAL4	NT1420100702.D	10/07/2020	10:24
Cal Standard	SIJ0085-CAL6	NT1420100703.D	10/07/2020	11:48
Cal Standard	SIJ0085-CAL1	NT1420100704.D	10/07/2020	12:38
Cal Standard	SIJ0085-CAL5	NT1420100705.D	10/07/2020	13:26
Cal Standard	SIJ0085-CAL2	NT1420100706.D	10/07/2020	14:17
Cal Standard	SIJ0085-CAL3	NT1420100707.D	10/07/2020	15:08
Secondary Cal Check	SIJ0085-SCV1	NT1420100709.D	10/07/2020	16:45
Initial Cal Blank	SIJ0085-ICB1	NT1420100710.D	10/07/2020	17:33
Initial Cal Check	SIJ0085-ICV1	NT1420100711.D	10/07/2020	18:22
Instrument Blank	SIJ0085-IBL1	NT1420100712.D	10/07/2020	19:11
ZZZZZ	20I0231-01RE1	NT1420100713.D	10/07/2020	19:59
ZZZZZ	20I0231-02RE1	NT1420100714.D	10/07/2020	20:48
ZZZZZ	20I0231-03RE1	NT1420100715.D	10/07/2020	21:36
ZZZZZ	20I0231-05RE1	NT1420100717.D	10/07/2020	23:13
ZZZZZ	20I0231-07RE1	NT1420100719.D	10/08/2020	0:49
ZZZZZ	20I0231-08RE1	NT1420100720.D	10/08/2020	1:38
ZZZZZ	20I0231-09RE1	NT1420100721.D	10/08/2020	2:26
ZZZZZ	20I0231-10RE1	NT1420100722.D	10/08/2020	3:14
ZZZZZ	20I0231-11RE1	NT1420100723.D	10/08/2020	4:03
Calibration Check	SIJ0085-CCV1	NT1420100724.D	10/08/2020	4:51

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



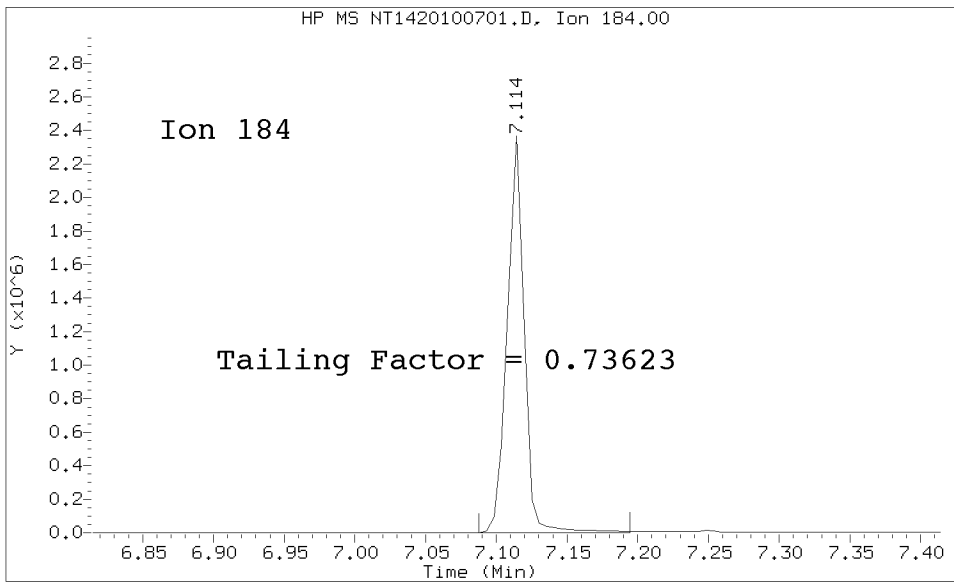
Datafile Analyzed: /20201007.b/NT1420100701.D/NT1420100701.D
Method Used: \20201007.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 07-OCT-2020 10:11 Operator: JZ
Sample Info: SIJ0XXX-TUN1
Report Date: 10/09/2020 08:53



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:	20J0385
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DG00090	Instrument:	NT8
Calibration Date:	07/30/2020	Column (1):	RXI-17Sil ms

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RRF		RRF		RRF		RRF		RRF		RRF
Tributyltin Ion	0.03865	1.004282	0.1546	0.7554736	0.3865	0.7200197	0.773	0.6657294	1.546	0.6959674	3.092	0.6111273
Tripentyltin	0.07959	9.691711E-02	0.31836	7.069891E-02	0.7959	7.353433E-02	1.5918	6.400946E-02	3.1836	7.591243E-02	6.3672	0.06787
Tripropyltin	0.037215	1.403139	0.14886	1.108501	0.37215	1.094491	0.7443	0.9496594	1.4886	1.007765	2.9772	0.8572736



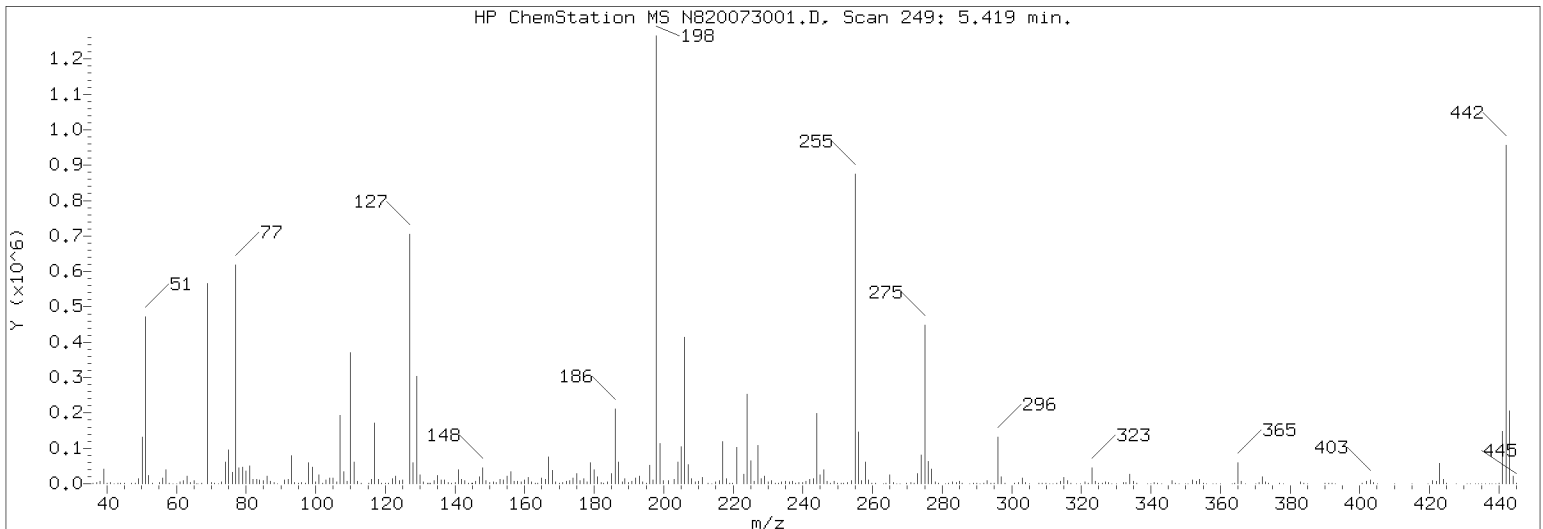
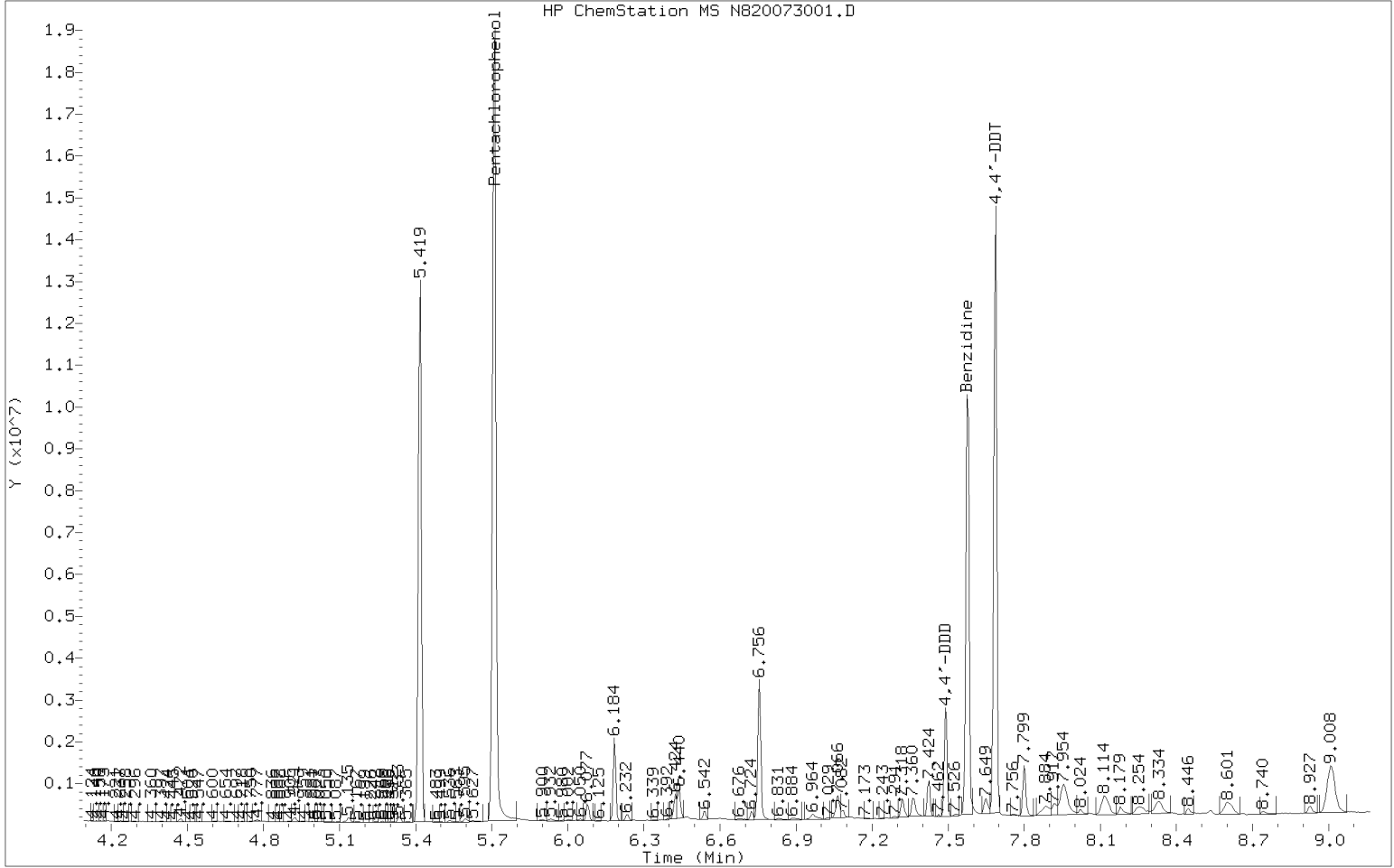
INITIAL CALIBRATION DATA
EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DG00090	Instrument:	NT8
Calibration Date:	07/30/2020	Column (1):	RXI-17Sil ms

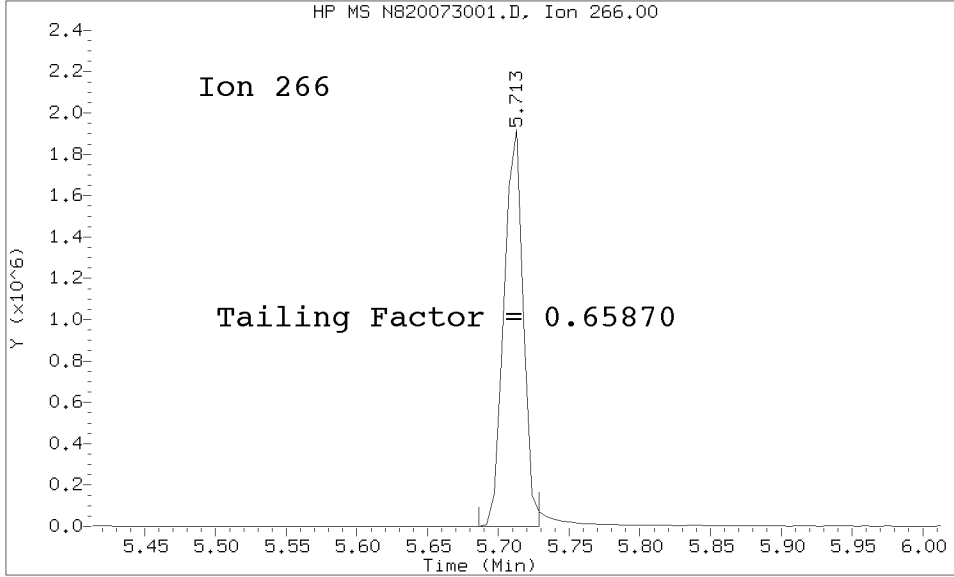
COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Tributyltin Ion	0.7420999	18.5	0.9939		LCOD (0.99)	
Tripentyltin	7.482371E-02	15.5	0.9955		LCOD (0.99)	
Tripropyltin	1.070138	17.6	0.9902		LCOD (0.99)	

DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20200730.b/tune.b/N820073001.D/N820073001.D
Method Used: \20200730.b\tune.b\DFTTBT.m Inst: nt8
Injection Date: 30-JUL-2020 11:31 Operator: JZ
Sample Info: SIG0417-TUN1 DFTPP200730
Report Date: 07/30/2020 15:32



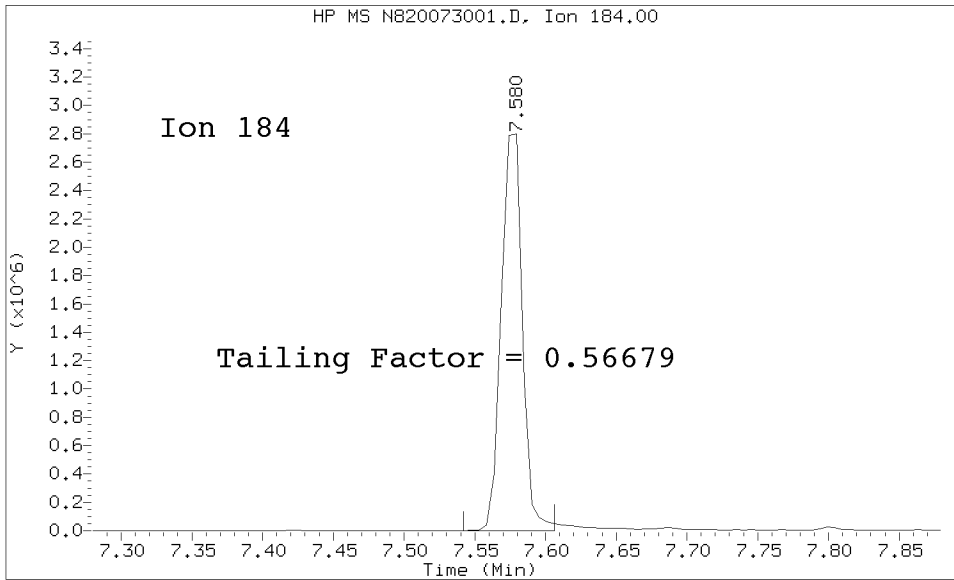
Datafile Analyzed: /20200730.b/tune.b/N820073001.D/N820073001.D
Method Used: \20200730.b\tune.b\DFTTBT.m\sw846ddt.m Inst: nt8
Injection Date: 30-JUL-2020 11:31 Operator: JZ
Sample Info: DFTPP200730
Report Date: 07/30/2020 15:32



Pentachlorophenol

=====
Exp. RT = 5.713
Found RT = 5.713

Tail Factor = 0.659 Maximum Allowed = 2.0



Benzidine

=====
Exp. RT = 7.580
Found RT = 7.580

Tail Factor = 0.567 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.6586957	2.000	PASS
Benzidine	0.5667939	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	1818097			N/A
4,4-DDE	0	0.0	20.0	PASS
4,4-DDD	406932	18.3	20.0	PASS
4,4-DDD + DDE	406932	18.3	20.0	PASS

Tuning Sample, /nt8.i/20200730.b/tune.b/N820073001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	10.00 - 80.00% of mass 198	37.33
68	Less than 2.00% of mass 69	0.09 (0.19)
69	Mass 69 relative abundance	45.36
70	Less than 2.00% of mass 69	0.27 (0.59)
127	10.00 - 80.00% of mass 198	54.76
197	Less than 2.00% of mass 198	1.01
199	5.00 - 9.00% of mass 198	8.52
275	10.00 - 60.00% of mass 198	33.79
365	Greater than 1.00% of mass 198	4.51
441	0.01 - 24.00% of mass 442	12.12 (15.54)
442	50.00 - 200.00% of mass 198	78.02
443	15.00 - 24.00% of mass 442	16.57 (21.23)

Data File: N820073001.D

Spectrum: Avg. Scans 248-250 (5.42), Background Scan 242

Location of Maximum: 198.00

Number of points: 358

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1531	134.00	6673	226.00	4617	320.00	649
38.00	5727	135.00	16872	227.00	77216	321.00	3573
39.00	30408	136.00	7032	228.00	10259	322.00	1950
40.00	783	137.00	8346	229.00	14995	323.00	30576
41.00	849	138.00	2056	230.00	2857	324.00	5900
42.00	229	139.00	1193	231.00	6271	325.00	790
43.00	117	140.00	3086	232.00	1323	326.00	652
45.00	719	141.00	29384	233.00	1540	327.00	4438
49.00	186	142.00	9278	234.00	4602	328.00	2897
50.00	101120	143.00	6035	235.00	6292	329.00	427
51.00	348736	144.00	1928	236.00	4232	330.00	87
52.00	18176	145.00	2224	237.00	5560	331.00	189
53.00	440	146.00	5614	238.00	576	332.00	2382
55.00	2495	147.00	15170	239.00	3019	333.00	2990
56.00	12095	148.00	33344	240.00	2718	334.00	18960
57.00	27816	149.00	6447	241.00	4011	335.00	4899
58.00	1366	150.00	2222	242.00	8915	336.00	918
59.00	22	151.00	4242	243.00	10623	339.00	582
60.00	307	152.00	2901	244.00	141696	340.00	699
61.00	4955	153.00	8940	245.00	19032	341.00	3180
62.00	6336	154.00	6315	246.00	29136	342.00	1158
63.00	16322	155.00	15991	247.00	5826	343.00	140
64.00	2682	156.00	24272	248.00	1262	346.00	6741
65.00	7418	157.00	5172	249.00	4697	347.00	1494
66.00	578	158.00	5309	250.00	927	348.00	120
67.00	477	159.00	3988	251.00	1191	350.00	285
68.00	824	160.00	8408	252.00	1513	351.00	681
69.00	423744	161.00	13118	253.00	3868	352.00	7522
70.00	2508	162.00	3288	254.00	6479	353.00	5738
72.00	477	163.00	1130	255.00	641472	354.00	8649
73.00	3044	164.00	1831	256.00	105024	355.00	1680
74.00	46416	165.00	11337	257.00	7912	356.00	199
75.00	72296	166.00	8327	258.00	45768	358.00	118
76.00	25352	167.00	55184	259.00	7760	359.00	845
77.00	461312	168.00	27472	260.00	1223	360.00	310
78.00	33008	169.00	4588	261.00	1407	361.00	84
79.00	34624	170.00	1934	262.00	138	363.00	348
80.00	26664	171.00	2497	263.00	644	364.00	640
81.00	35680	172.00	5192	264.00	1220	365.00	42168
82.00	8647	173.00	6828	265.00	17920	366.00	5485
83.00	8335	174.00	11766	266.00	2993	367.00	532
85.00	6400	175.00	22032	267.00	153	370.00	667
86.00	10778	176.00	5393	268.00	299	371.00	2196
87.00	4251	177.00	11007	269.00	125	372.00	14485
88.00	1030	178.00	3455	270.00	1077	373.00	3474
89.00	865	179.00	44080	271.00	1731	374.00	605
90.00	229	180.00	28672	272.00	1742	377.00	343
91.00	7462	181.00	13642	273.00	20912	378.00	408
92.00	9443	182.00	2450	274.00	58680	379.00	84

93.00	58336	183.00	845	275.00	315712	383.00	3777
94.00	3578	184.00	3702	276.00	45080	384.00	1093
95.00	530	185.00	21072	277.00	29120	385.00	540
96.00	2594	186.00	154240	278.00	4167	389.00	99
97.00	1035	187.00	45200	279.00	1409	390.00	1657
98.00	44096	188.00	4769	281.00	275	391.00	1157
99.00	33816	189.00	10865	282.00	1043	392.00	1013
100.00	3058	190.00	1840	283.00	3224	393.00	293
101.00	19584	191.00	5058	284.00	2825	401.00	888
102.00	1180	192.00	11863	285.00	5383	402.00	5439
103.00	6495	193.00	15735	286.00	948	403.00	7304
104.00	12378	194.00	3452	288.00	320	404.00	2768
105.00	11331	195.00	1384	289.00	1338	405.00	447
106.00	4162	196.00	36352	290.00	1227	410.00	291
107.00	142848	197.00	9442	291.00	549	415.00	136
108.00	22880	198.00	934208	292.00	1074	419.00	90
109.00	4812	199.00	79608	293.00	6333	420.00	93
110.00	265024	200.00	6523	294.00	1244	421.00	6267
111.00	42688	201.00	6670	295.00	2347	422.00	4891
112.00	5000	203.00	8838	296.00	96808	423.00	45040
113.00	1855	204.00	43848	297.00	14795	424.00	9023
114.00	140	205.00	72448	298.00	1263	425.00	1205
115.00	385	206.00	293056	299.00	194	427.00	99
116.00	8426	207.00	39168	301.00	1514	428.00	90
117.00	125936	208.00	9811	302.00	2042	431.00	247
118.00	9339	209.00	2950	303.00	10714	432.00	254
119.00	1189	210.00	5393	304.00	3340	433.00	117
120.00	1754	211.00	13024	305.00	489	434.00	228
121.00	985	212.00	1231	306.00	126	435.00	430
122.00	10522	213.00	876	308.00	1463	436.00	463
123.00	16656	214.00	685	309.00	1019	437.00	512
124.00	7328	215.00	4198	310.00	1156	438.00	656
125.00	7114	216.00	6584	311.00	349	439.00	230
126.00	322	217.00	83712	312.00	272	440.00	447
127.00	511552	218.00	10760	313.00	1079	441.00	113264
128.00	44352	219.00	910	314.00	4881	442.00	728832
129.00	220096	220.00	1067	315.00	11341	443.00	154752
130.00	18968	221.00	70432	316.00	5490	444.00	14649
131.00	3978	223.00	18384	317.00	1350	445.00	919
132.00	2756	224.00	178752	318.00	213		
133.00	540	225.00	46080	319.00	107		

Data File: \\target\share\chem3\nt8.1\20200730.6\N820073002.D

Date : 30-JUL-2020 12:23

Client ID:

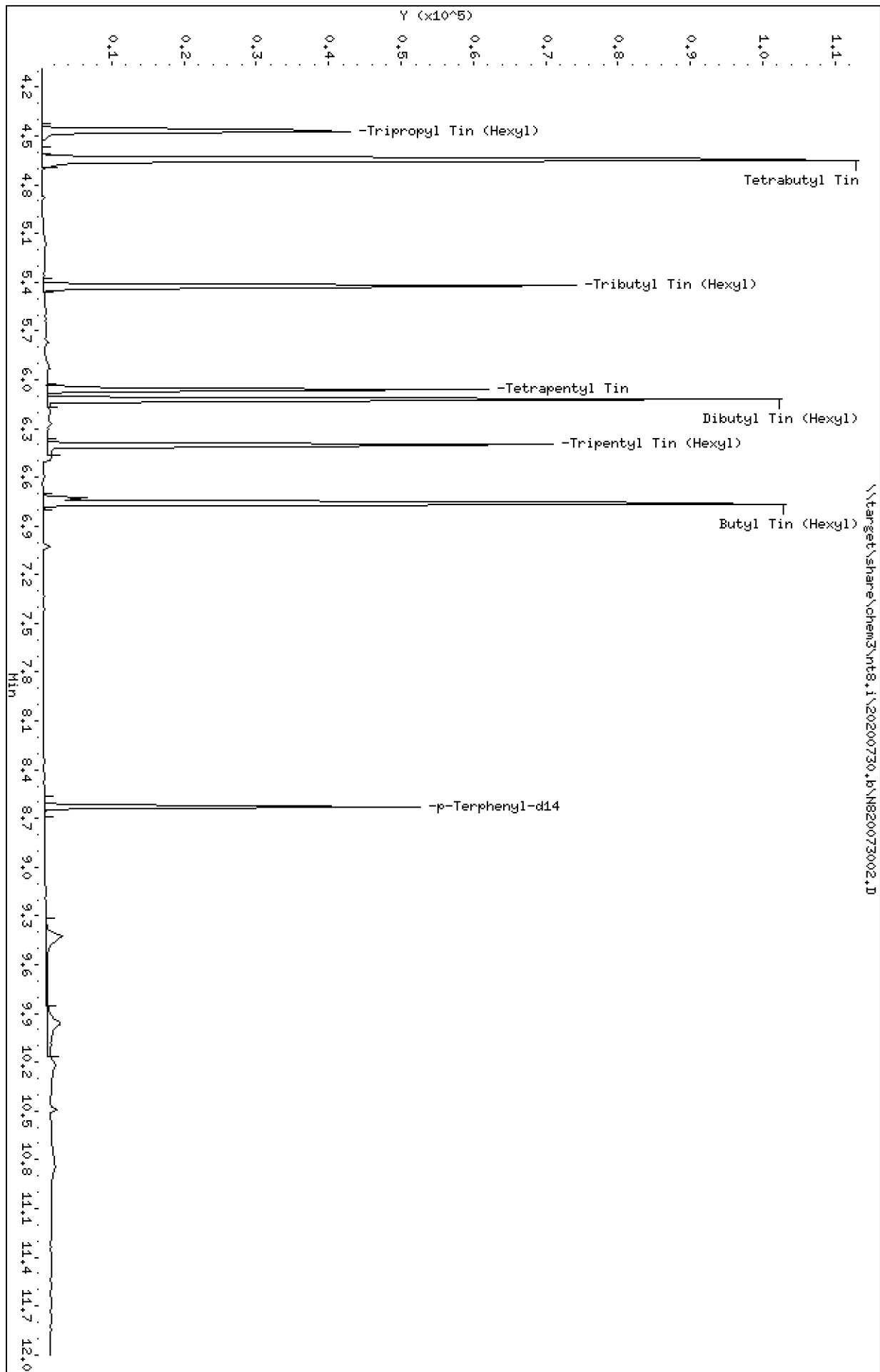
Sample Info: IC1200730,

Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073002.D
 Lab Smp Id: SIG0417-CAL4
 Inj Date : 30-JUL-2020 12:23
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC1200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:35 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 13:46 Cal File: N820073007.D
 Als bottle: 2 Calibration Sample, Level: 4
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.472	4.472	(0.738)	26005	1.00000	1.058
2 Tetrabutyl Tin	289		4.649	4.649	(0.767)	21009	1.00000	1.008
3 Tributyl Tin (Hexyl)	319		5.430	5.430	(0.896)	18230	1.00000	1.051
* 4 Tetrapentyl Tin	333		6.061	6.061	(1.000)	54767	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.710)	22595	2.00000	1.812
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.742)	28963	2.00000	1.844
7 Butyl Tin (Hexyl)	347		6.763	6.763	(0.784)	36089	2.00000	1.792
* 8 p-Terphenyl-d14	244		8.626	8.626	(1.000)	45248	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073002.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL4
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	54767	0.00
8 p-Terphenyl-d14	45248	22624	90496	45248	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.06	0.00
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	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 - N820073002.D

Lab ID: SIG0417-CAL4

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 12:23

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: N820073002.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20200730.b

Instrument: nt8.i Date: 30-JUL-2020 Method: 20200730.b\TBT200730.m

INITIAL CAL: 29-JUL-2020

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: N820073002.D 30-JUL-2020 12:23

Compound	%D

NO Q-FLAGS	

Data File: \\target\share\chem3\nt8.1\20200730.6\N820073003.D

Date: 30-JUL-2020 12:40

Client ID:

Sample Info: IC0005200730,

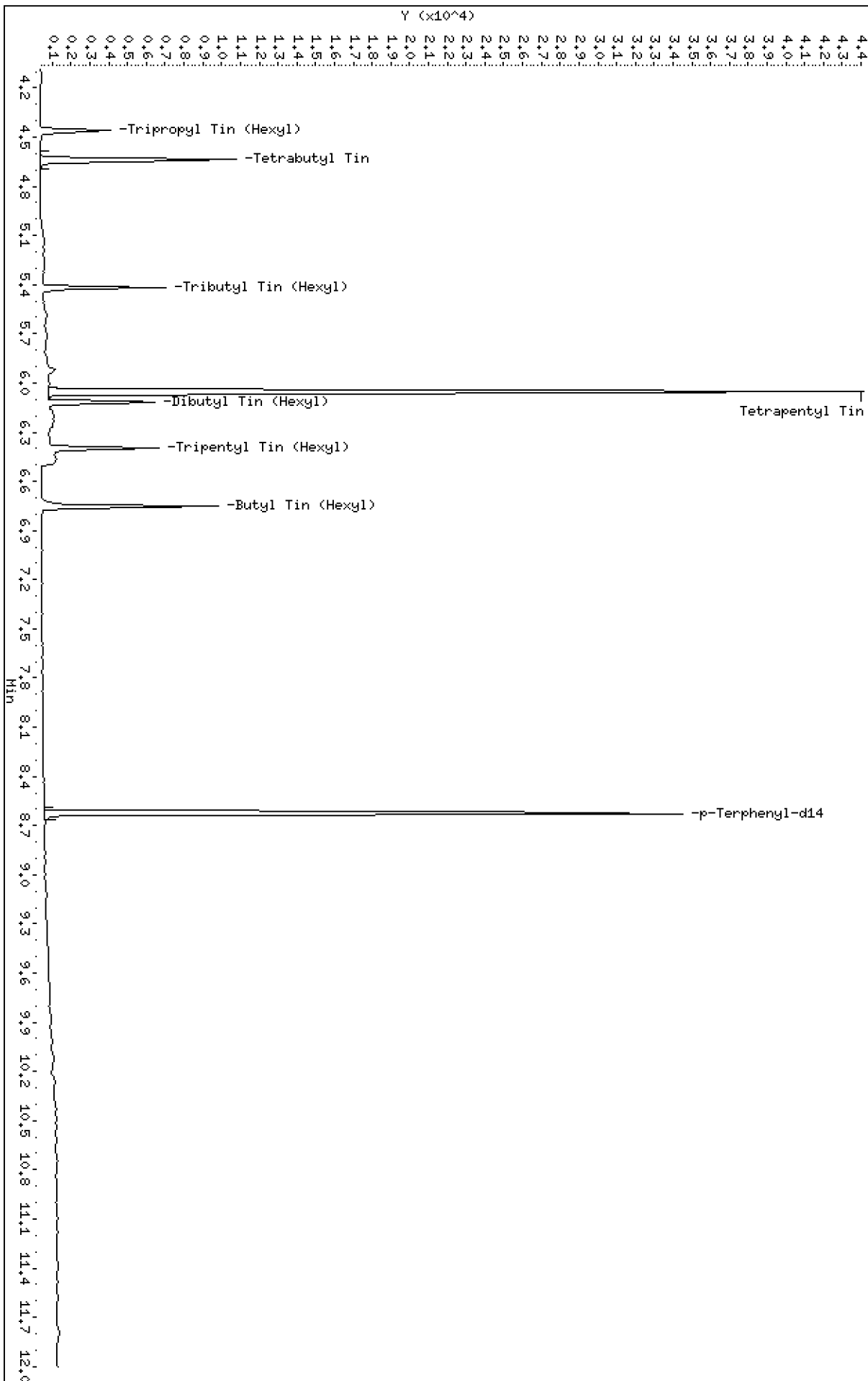
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\N820073003.D



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073003.D
 Lab Smp Id: SIG0417-CAL1
 Inj Date : 30-JUL-2020 12:40
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC005200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:36 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 13:46 Cal File: N820073007.D
 Als bottle: 3 Calibration Sample, Level: 1
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.461	4.472	(0.737)	1868	0.05000	0.07814
2 Tetrabutyl Tin	289		4.638	4.649	(0.767)	1711	0.05000	0.08445
3 Tributyl Tin (Hexyl)	319		5.419	5.430	(0.896)	1337	0.05000	0.07929
* 4 Tetrapentyl Tin	333		6.050	6.061	(1.000)	53252	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.710)	1688	0.10000	0.1444
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.742)	2056	0.10000	0.1396
7 Butyl Tin (Hexyl)	347		6.751	6.763	(0.783)	2371	0.10000	0.1256
* 8 p-Terphenyl-d14	244		8.626	8.626	(1.000)	42428	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073003.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	53252	-2.77
8 p-Terphenyl-d14	45248	22624	90496	42428	-6.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.05	-0.20
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	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 - N820073003.D

Lab ID: SIG0417-CAL1

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 12:40

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: N820073007.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

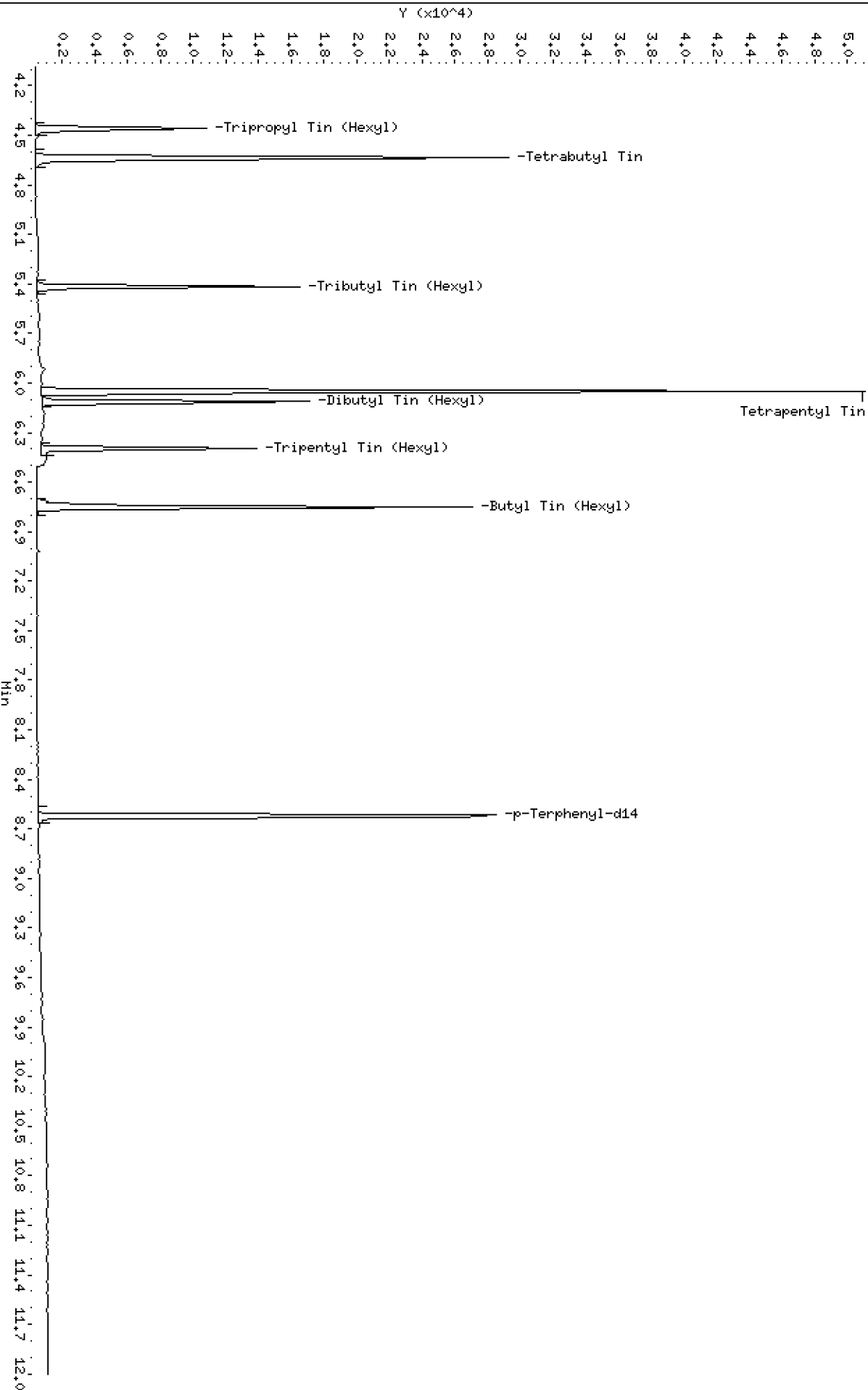
* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt8.1\20200730.6\N820073004.D
Date : 30-JUL-2020 12:57
Client ID:
Sample Info: IC02200730,

Column phase: ZB-5msi

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\N820073004.D



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073004.D
 Lab Smp Id: SIG0417-CAL2
 Inj Date : 30-JUL-2020 12:57
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC02200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:35 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 4 Calibration Sample, Level: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.461	4.472	(0.737)	5473	0.20000	0.2469
2 Tetrabutyl Tin	289		4.638	4.649	(0.767)	4734	0.20000	0.2520
3 Tributyl Tin (Hexyl)	319		5.419	5.430	(0.896)	3730	0.20000	0.2386
* 4 Tetrapentyl Tin	333		6.050	6.061	(1.000)	49373	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.711)	4806	0.40000	0.4334
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.743)	5689	0.40000	0.4073
7 Butyl Tin (Hexyl)	347		6.751	6.763	(0.784)	7123	0.40000	0.3978
* 8 p-Terphenyl-d14	244		8.614	8.626	(1.000)	40234	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073004.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL2
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	49373	-9.85
8 p-Terphenyl-d14	45248	22624	90496	40234	-11.08

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.05	-0.20
8 p-Terphenyl-d14	8.63	8.13	9.13	8.61	-0.14

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 - N820073004.D

Lab ID: SIG0417-CAL2

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 12:57

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

RRT check based on Ccal File: N820073002.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

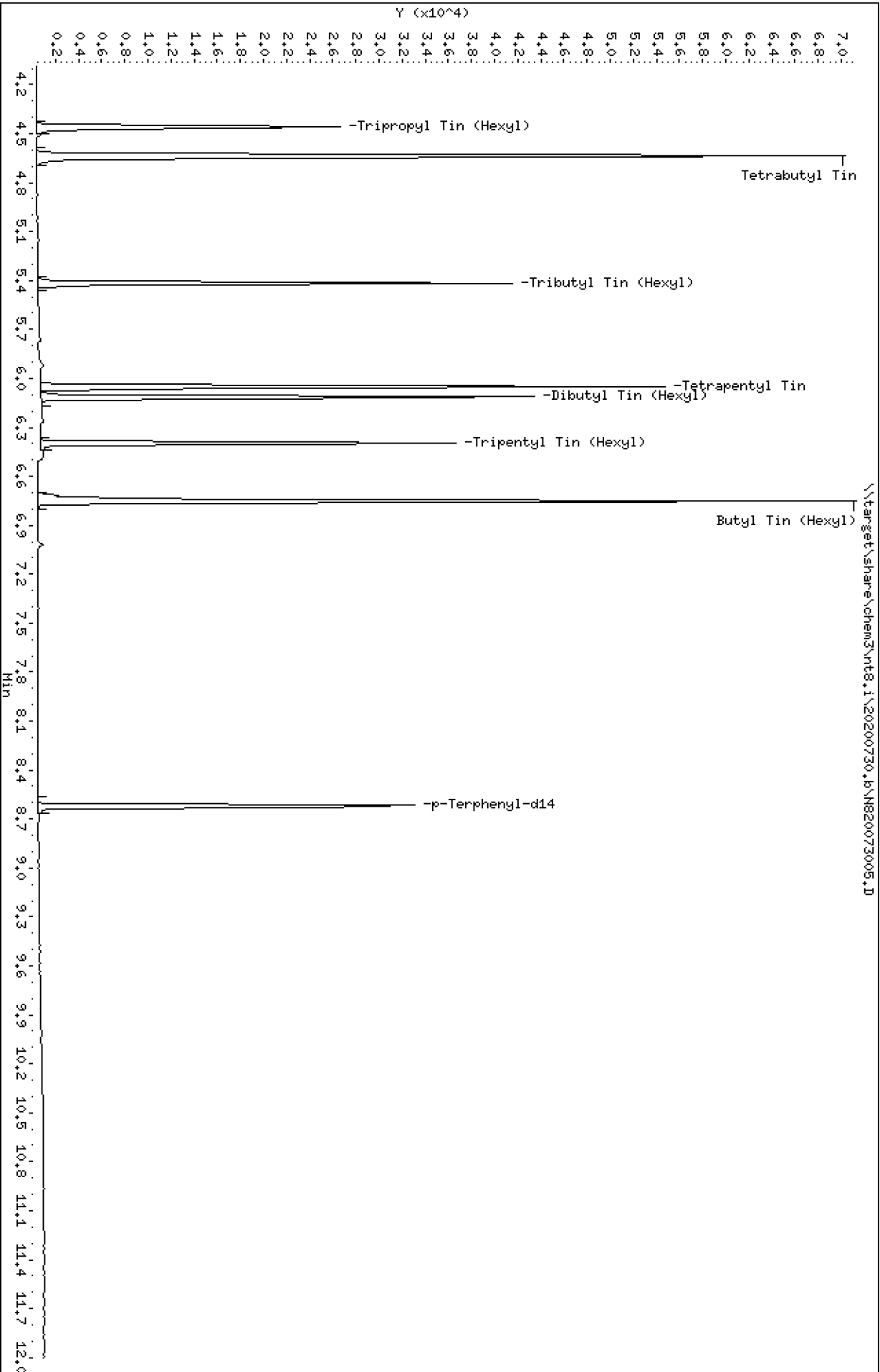
Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Data File: \\target\share\chem3\nt8.1\20200730.b\N820073005.D
Date : 30-JUL-2020 13:13
Client ID:
Sample Info: IC05200730,

Column phase: ZB-5msi

Instrument: nt8.1
Operator: JZ
Column diameter: 0.25



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073005.D
 Lab Smp Id: SIG0417-CAL3
 Inj Date : 30-JUL-2020 13:13
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC05200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:35 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:57 Cal File: N820073004.D
 Als bottle: 5 Calibration Sample, Level: 3
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 Tripropyl Tin (Hexyl)	291		4.461	4.472	(0.737)	14418	0.50000	0.6095
2 Tetrabutyl Tin	289		4.638	4.649	(0.767)	11920	0.50000	0.5946
3 Tributyl Tin (Hexyl)	319		5.419	5.430	(0.896)	9485	0.50000	0.5685
* 4 Tetrapentyl Tin	333		6.050	6.061	(1.000)	52693	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.711)	12255	1.00000	1.047
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.743)	15622	1.00000	1.059
7 Butyl Tin (Hexyl)	347		6.751	6.763	(0.784)	18366	1.00000	0.9713
* 8 p-Terphenyl-d14	244		8.614	8.626	(1.000)	42489	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073005.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL3
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	52693	-3.79
8 p-Terphenyl-d14	45248	22624	90496	42489	-6.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.05	-0.20
8 p-Terphenyl-d14	8.63	8.13	9.13	8.61	-0.14

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 - N820073005.D

Lab ID: SIG0417-CAL3

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 13:13

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: N820073002.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Data File: \\target\share\chem3\nt8.1\20200730.6\N820073006.D

Date: 30-JUL-2020 13:29

Client ID:

Sample Info: IC2200730,

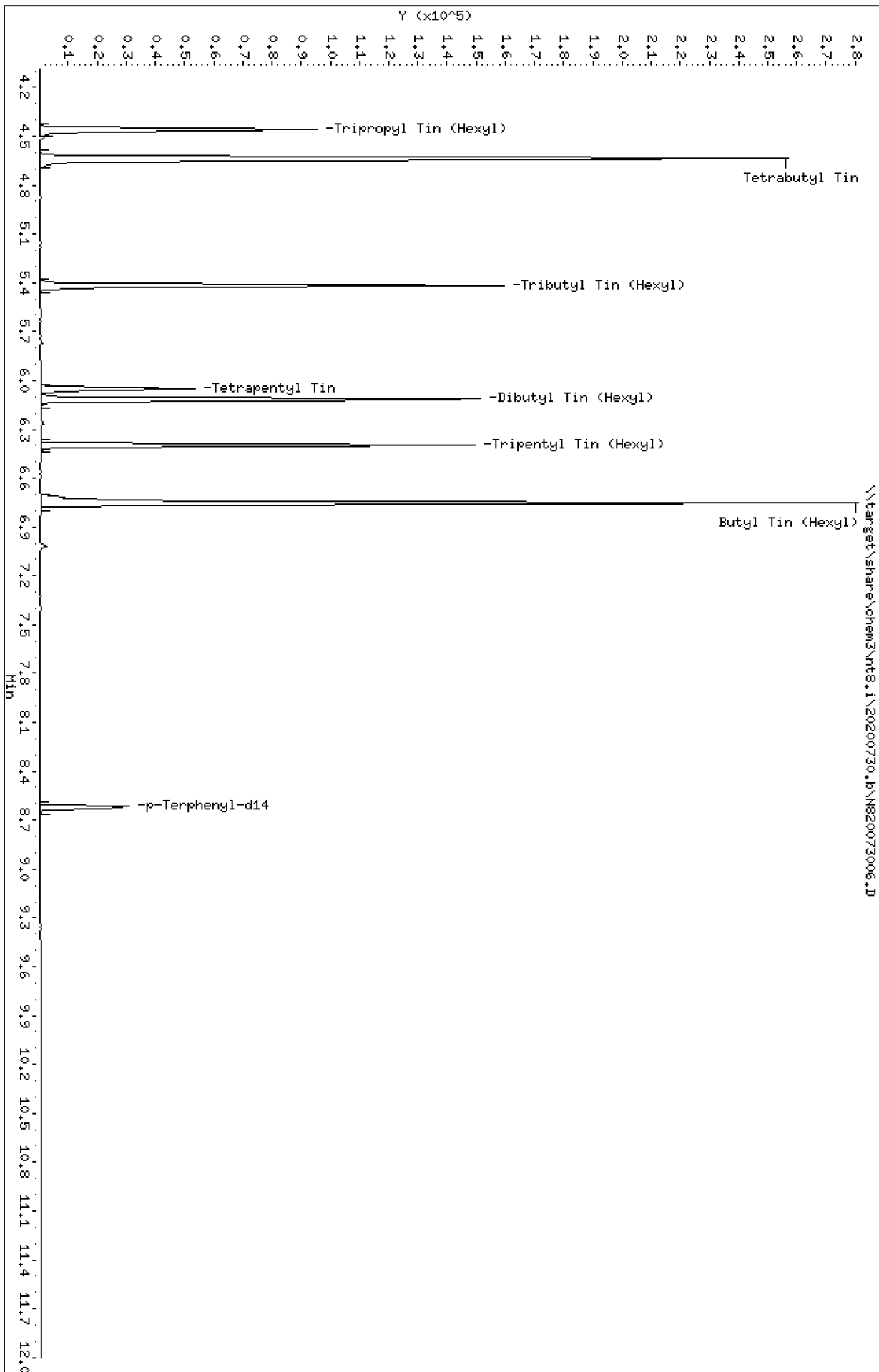
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\N820073006.D



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073006.D
 Lab Smp Id: SIG0417-CAL5
 Inj Date : 30-JUL-2020 13:29
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC2200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:35 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 13:13 Cal File: N820073005.D
 Als bottle: 6 Calibration Sample, Level: 5
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
\$ 1 Tripropyl Tin (Hexyl)	291		4.461	4.472	(0.737)	53081	2.00000	2.245
2 Tetrabutyl Tin	289		4.638	4.649	(0.767)	43573	2.00000	2.174
3 Tributyl Tin (Hexyl)	319		5.419	5.430	(0.896)	36658	2.00000	2.198
* 4 Tetrapentyl Tin	333		6.050	6.061	(1.000)	52672	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.711)	47611	4.00000	4.376
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.743)	59945	4.00000	4.373
7 Butyl Tin (Hexyl)	347		6.751	6.763	(0.784)	69964	4.00000	3.982
* 8 p-Terphenyl-d14	244		8.614	8.626	(1.000)	39483	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073006.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL5
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	52672	-3.83
8 p-Terphenyl-d14	45248	22624	90496	39483	-12.74

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.05	-0.20
8 p-Terphenyl-d14	8.63	8.13	9.13	8.61	-0.14

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 - N820073006.D

Lab ID: SIG0417-CAL5

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 13:29

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV	RRT	DELTA	COMPOUND
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NONE

RRT check based on Ccal File: N820073002.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Data File: \\target\share\chem3\nt8.1\20200730.6\N820073007.D

Date: 30-JUL-2020 13:46

Client ID:

Sample Info: IC4200730,

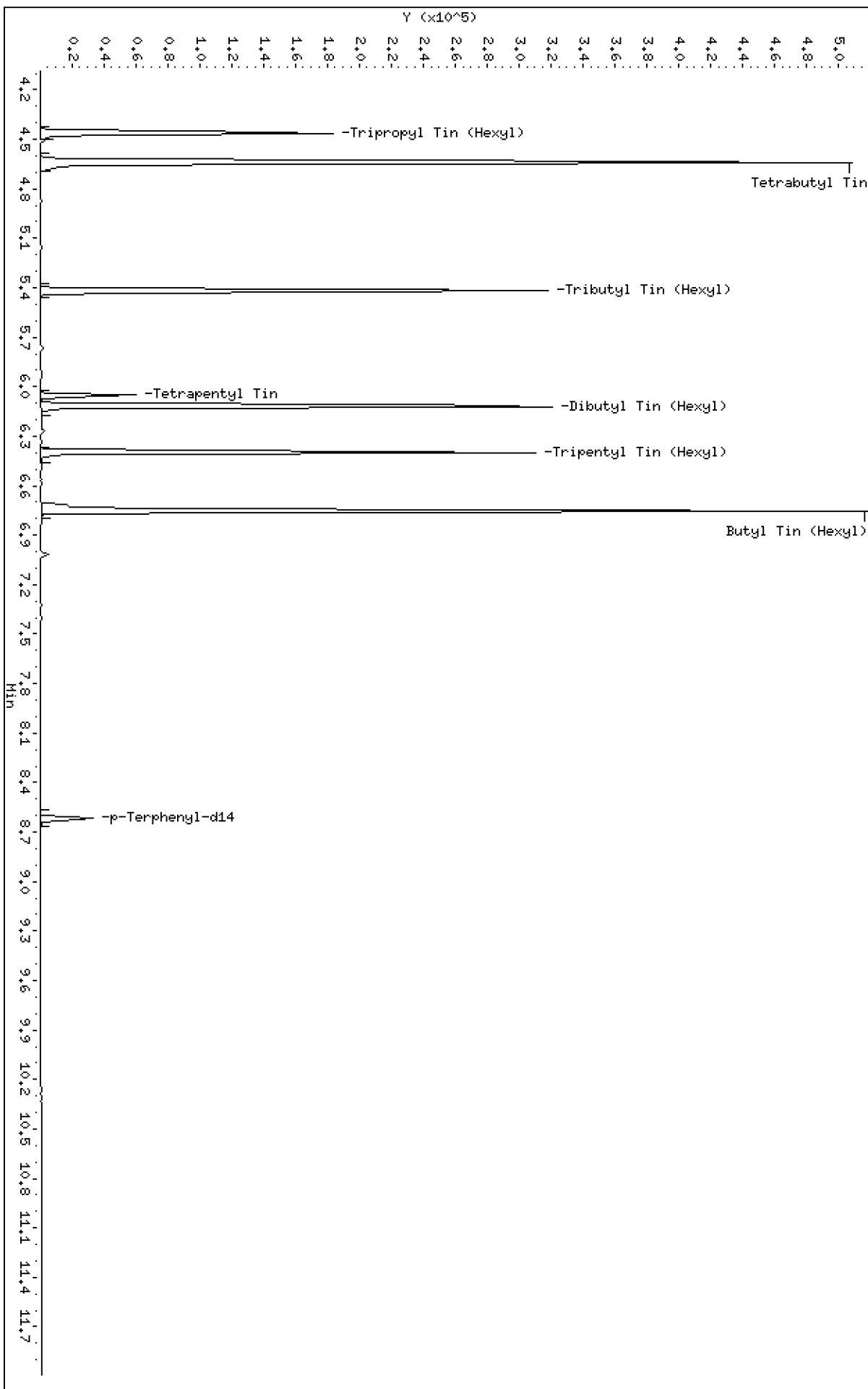
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\N820073007.D



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073007.D
 Lab Smp Id: SIG0417-CAL6
 Inj Date : 30-JUL-2020 13:46
 Operator : JZ Inst ID: nt8.i
 Smp Info : IC4200730,
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:35 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 13:29 Cal File: N820073006.D
 Als bottle: 7 Calibration Sample, Level: 6
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.461	4.472	(0.737)	100217	4.00000	3.819
2 Tetrabutyl Tin	289		4.638	4.649	(0.767)	86314	4.00000	3.881
3 Tributyl Tin (Hexyl)	319		5.419	5.430	(0.896)	71442	4.00000	3.860
* 4 Tetrapentyl Tin	333		6.050	6.061	(1.000)	58451	2.00000	
5 Dibutyl Tin (Hexyl)	347		6.122	6.122	(0.711)	91034	8.00000	7.825
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.743)	114608	8.00000	7.819
7 Butyl Tin (Hexyl)	347		6.751	6.763	(0.784)	133317	8.00000	7.096
* 8 p-Terphenyl-d14	244		8.614	8.626	(1.000)	42216	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073007.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-CAL6
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	58451	6.73
8 p-Terphenyl-d14	45248	22624	90496	42216	-6.70

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.05	-0.20
8 p-Terphenyl-d14	8.63	8.13	9.13	8.61	-0.14

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 - N820073007.D

Lab ID: SIG0417-CAL6

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 13:46

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: N820073002.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Data File: \\target\share\chem3\nt8.1\20200730.6\MS20073008.D
Date: 30-JUL-2020 15:12

Client ID:

Sample Info: SCV200730

Purge Volume: 100.0

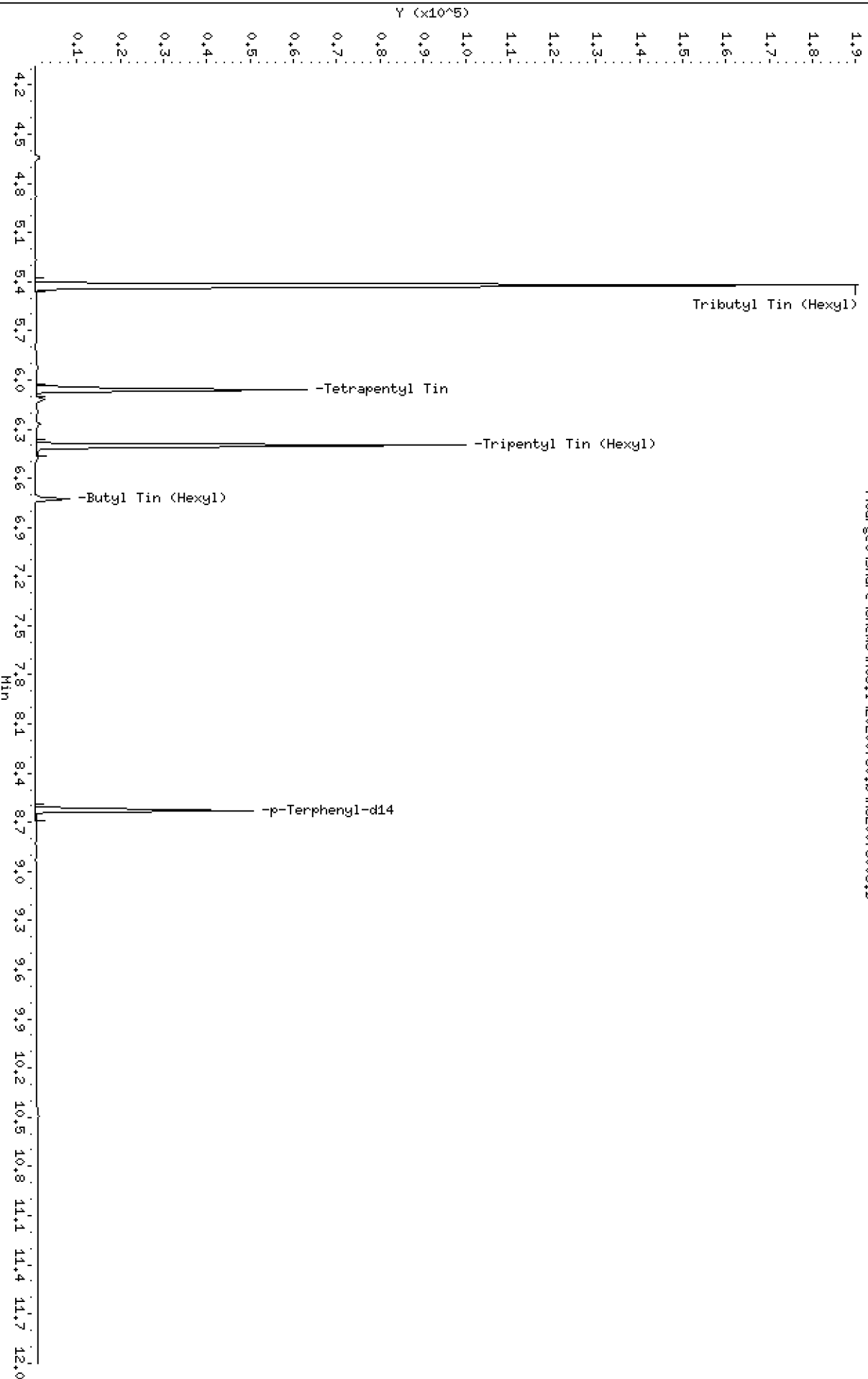
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\MS20073008.D



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100,0

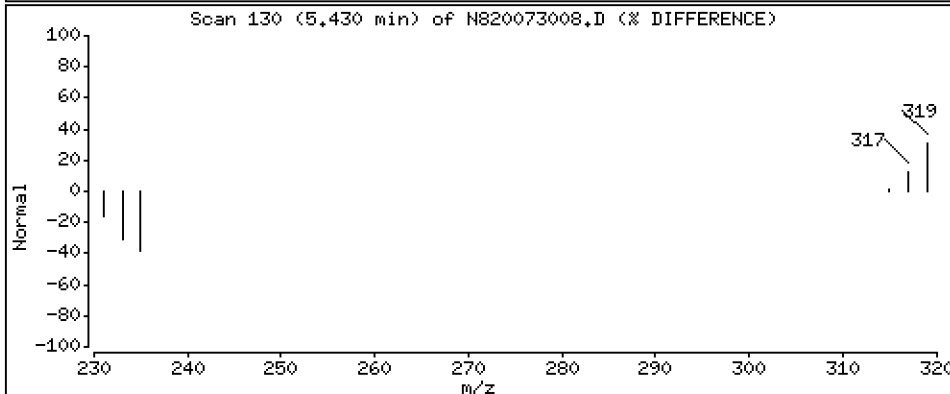
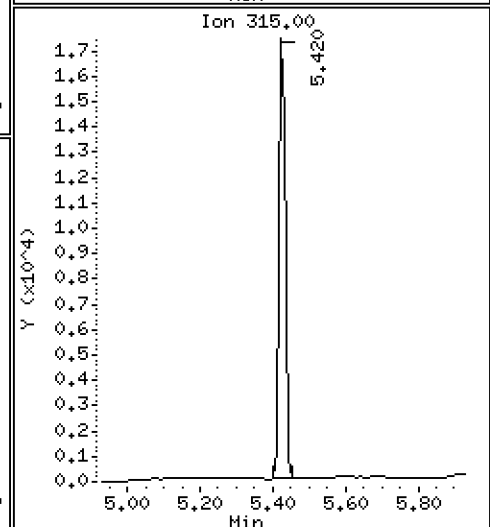
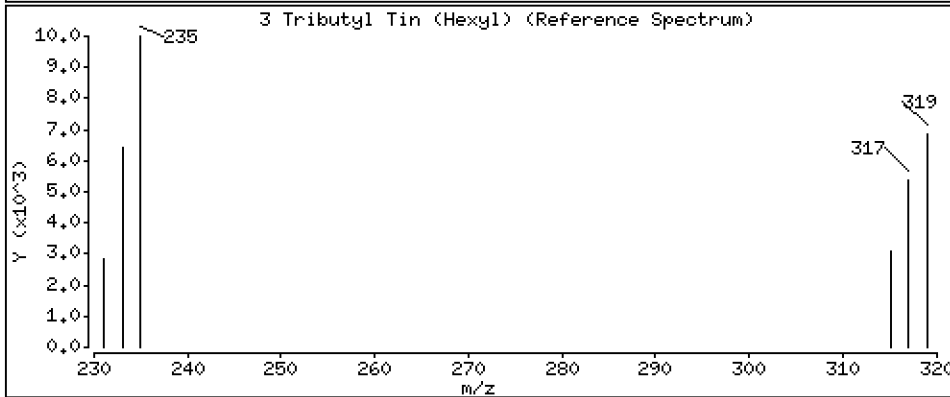
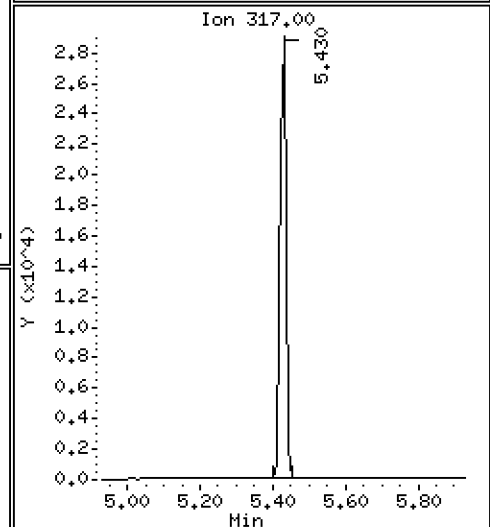
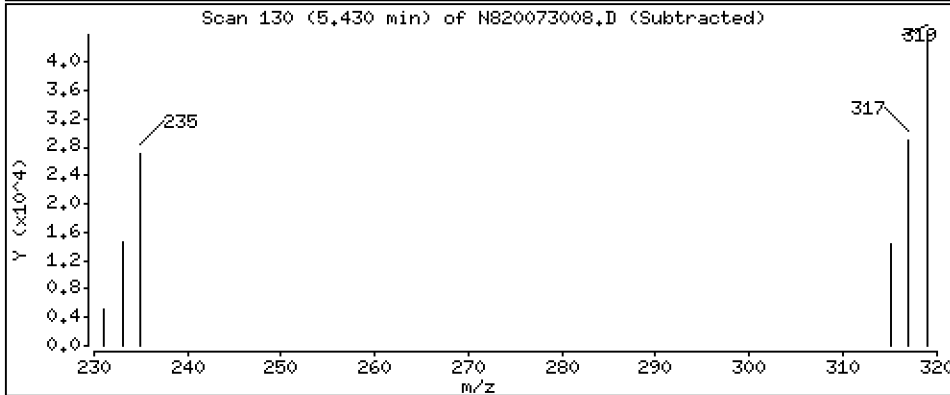
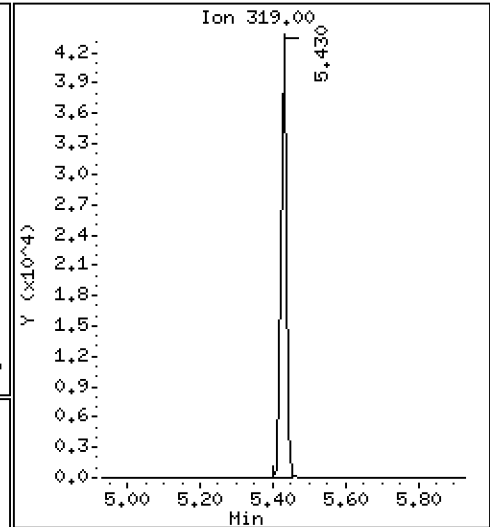
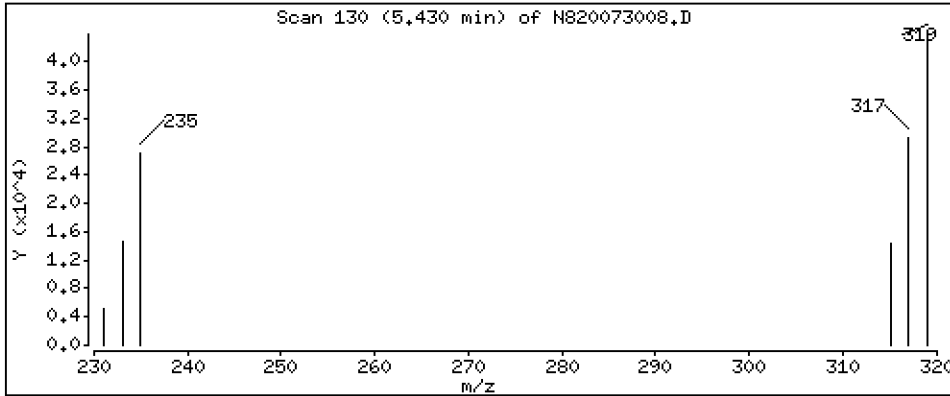
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,25

3 Tributyl Tin (Hexyl)

Concentration: 11,29 ug/L



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100.0

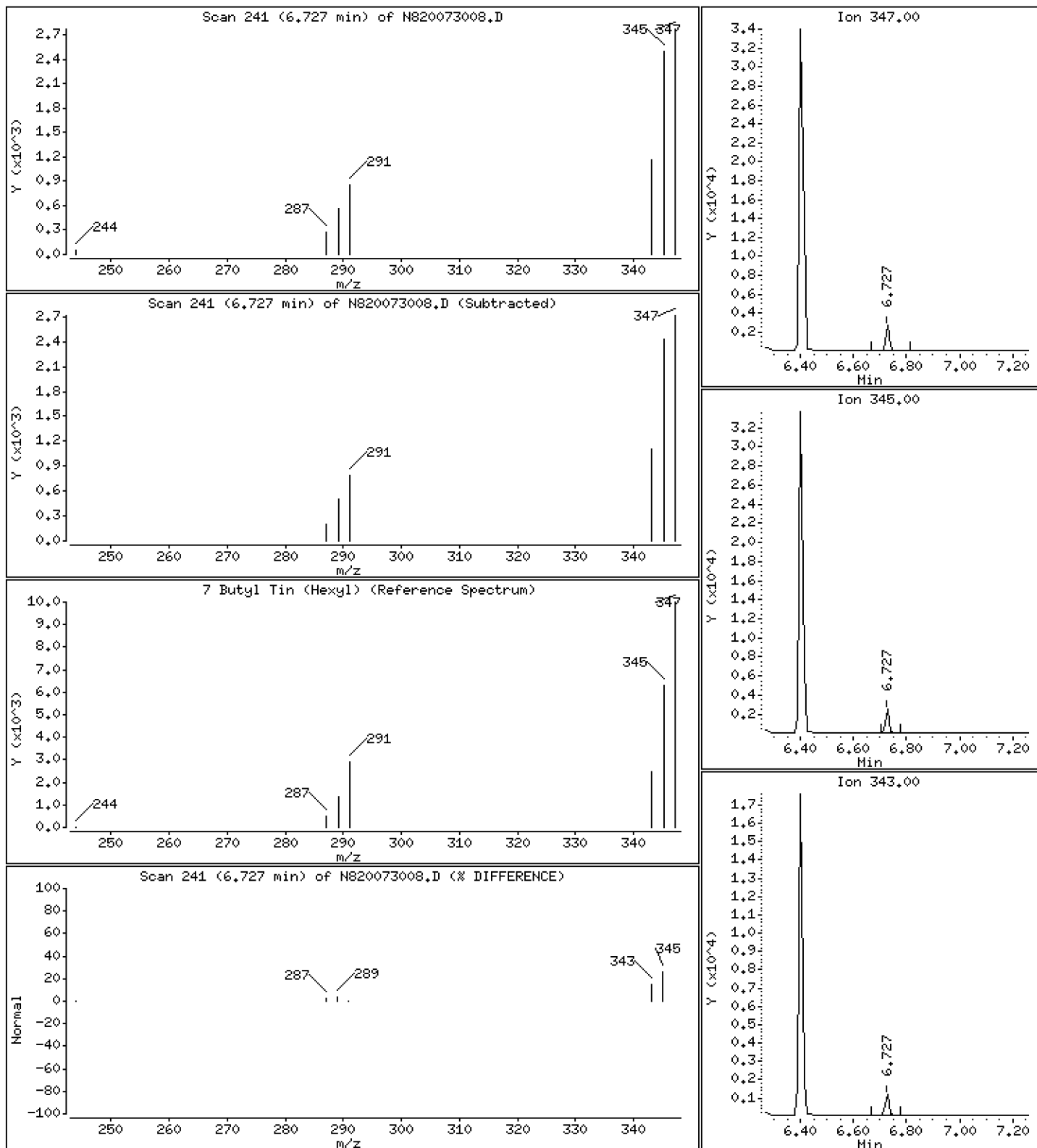
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

7 Butyl Tin (Hexyl)

Concentration: 0.6231 ug/L



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073008.D
 Lab Smp Id: SIG0417-SCV1
 Inj Date : 30-JUL-2020 15:12
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV200730
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:46 jianqing Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * (1000*Vt)/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.000	Volume Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
\$ 1 Tripropyl Tin (Hexyl)	291							
2 Tetrabutyl Tin	289							
3 Tributyl Tin (Hexyl)	319		5.430	5.430	(0.896)	43789	2.25868	11.29
* 4 Tetrapentyl Tin	333		6.062	6.061	(1.000)	61229	2.00000	
5 Dibutyl Tin (Hexyl)	347							
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.742)	35117	2.13224	10.66
7 Butyl Tin (Hexyl)	347		6.727	6.763	(0.780)	2397	0.12463	0.6231
* 8 p-Terphenyl-d14	244		8.626	8.627	(1.000)	47436	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073008.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	61229	11.80
8 p-Terphenyl-d14	45248	22624	90496	47436	4.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.06	0.00
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	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 - N820073008.D

Lab ID: SIG0417-SCV1

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 15:12

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: N820073003.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0100

Exception: Dibutyl Tin (Hexyl) 0.0200
Exception: Butyl Tin (Hexyl) 0.0200
Exception: Tetra-butyl Tin 0.0200
Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010
Exception: Tripentyl Tin (Hexyl) (Surr) 0.0200

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

Data File: \\target\share\chem3\nt8.1\20200730.b\MS20073009.D

Date: 30-JUL-2020 17:09

Client ID:

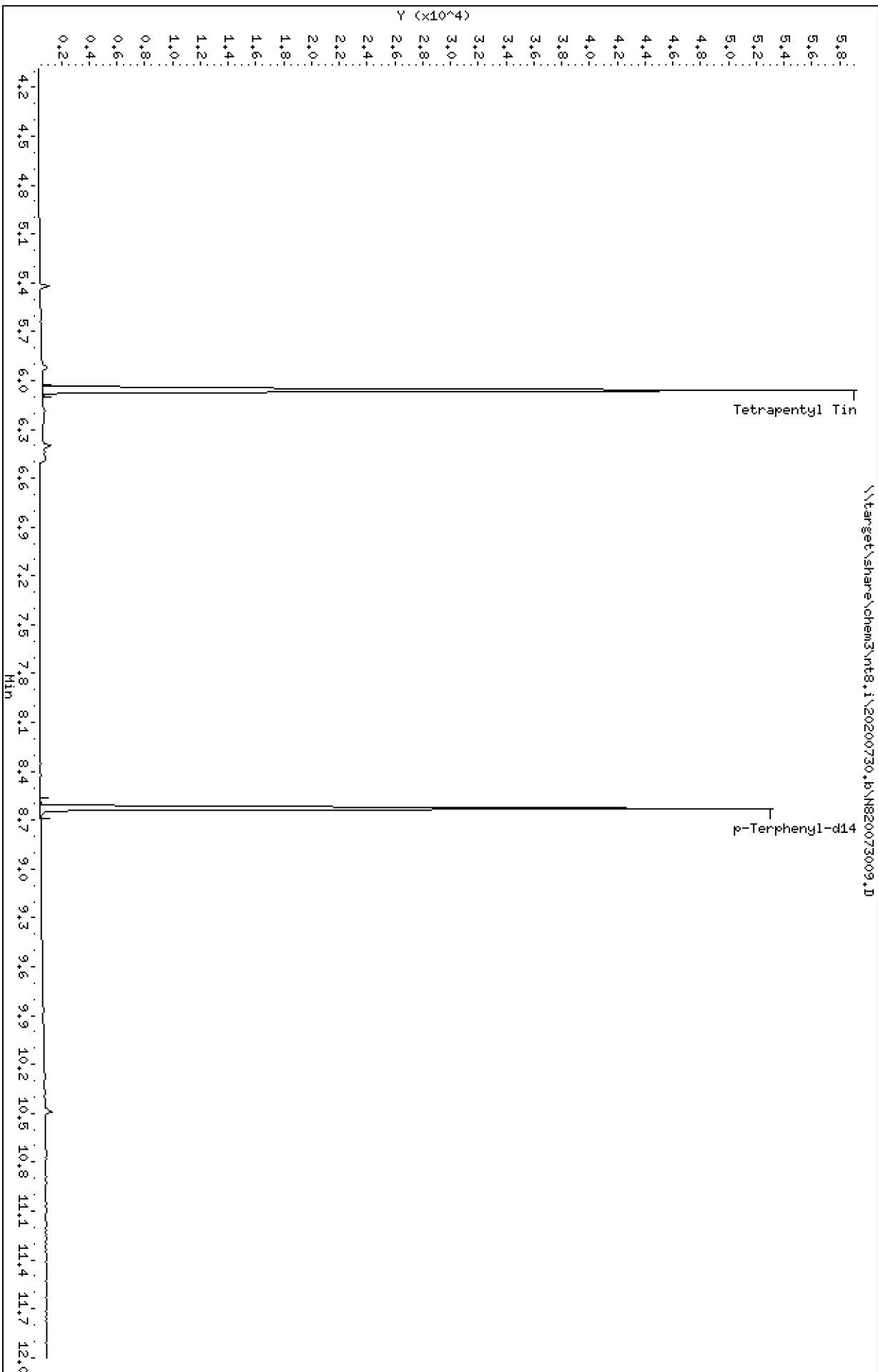
Sample Info: SIC0417-IBL1

Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073009.D
 Lab Smp Id: SIG0417-IBL1
 Inj Date : 30-JUL-2020 17:09
 Operator : JZ Inst ID: nt8.i
 Smp Info : SIG0417-IBL1
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 17:13 jianqing Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 9
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: IBL.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN	FINAL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291					Compound Not Detected.		
2 Tetrabutyl Tin	289					Compound Not Detected.		
3 Tributyl Tin (Hexyl)	319					Compound Not Detected.		
* 4 Tetrapentyl Tin	333		6.061	6.061	(1.000)	60190	2.00000	
5 Dibutyl Tin (Hexyl)	347					Compound Not Detected.		
\$ 6 Tripentyl Tin (Hexyl)	347					Compound Not Detected.		
7 Butyl Tin (Hexyl)	347					Compound Not Detected.		
* 8 p-Terphenyl-d14	244		8.626	8.627	(1.000)	48783	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073009.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-IBL1
 Analysis Type: SV Level:
 Quant Type: ISTD Sample Type:
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	60190	9.90
8 p-Terphenyl-d14	45248	22624	90496	48783	7.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.06	-0.00
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	-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 - N820073009.D

Lab ID: SIG0417-IBL1

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 17:09

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: N820073003.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, IBL.sub = 0.0190

Exception: Dibutyl Tin (Hexyl) 0.0280

Exception: Butyl Tin (Hexyl) 0.0200

Exception: Tetrabutyl Tin 0.0300

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0300

Exception: Tripentyl Tin (Hexyl) (Surr) 0.0300

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



INITIAL CALIBRATION DATA EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
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:	20J0385
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
Indeno(1,2,3-cd)pyrene	0.1	1.037286	0.25	0.9482086	0.5	0.9597054	2.5	1.068531	5	1.122973	10	1.129377
Dibenzo(a,h)anthracene	0.1	0.8834087	0.25	0.8489253	0.5	0.8204818	2.5	0.9733234	5	0.9833202	10	1.026537
Benzo(g,h,i)perylene	0.1	0.9348177	0.25	0.8295815	0.5	0.8801328	2.5	0.9468803	5	0.956302	10	0.9570557
Perylene	0.1	0.9198292	0.25	0.793068	0.5	0.829625	2.5	0.9288907	5	0.926447	10	0.9170021
Benzo(b)naphtho(2,1-d)thiophene	0.1	1.141164	0.25	1.13533	0.5	1.132635	2.5	1.220138	5	1.229175	10	1.196144
Naphthalene-d8	0.1	0.8588382	0.25	0.7957521	0.5	0.7879639	2.5	0.835773	5	0.8220143	10	0.7959781
Acenaphthene-d10	0.1	0.4750477	0.25	0.4872288	0.5	0.4749409	2.5	0.5067184	5	0.5068475	10	0.4893936
Phenanthrene-d10	0.1	0.9252462	0.25	0.9220916	0.5	0.9563307	2.5	1.002085	5	0.9924278	10	0.9493134
Chrysene-d12	0.1	0.7660224	0.25	0.6530345	0.5	0.6647636	2.5	0.6648494	5	0.680817	10	0.6619313
Perylene-d12	0.1	0.8784359	0.25	0.7779609	0.5	0.7950146	2.5	0.8323644	5	0.8461003	10	0.8321235



INITIAL CALIBRATION DATA
EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
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
trans-Decalin	8.358872E-02	9.2			RSD (15)	
cis-Decalin	6.289663E-02	10.2			RSD (15)	
Naphthalene	0.8164379	2.9			RSD (15)	
1-Methylnaphthalene	0.5226651	16.7		1.0000	QCOD (0.99)	
2-Methylnaphthalene	0.4976918	4.1			RSD (15)	
Biphenyl	0.7490419	4.0			RSD (15)	
2,6-Dimethylnaphthalene	0.546836	4.8			RSD (15)	
Acenaphthylene	0.8966517	5.0			RSD (15)	
Acenaphthene	0.5873971	1.9			RSD (15)	
Dibenzofuran	0.8521596	3.0			RSD (15)	
2,3,5-Trimethylnaphthalene	0.5544134	4.5			RSD (15)	
Fluorene	0.6643144	3.1			RSD (15)	
Benzo(b)thiophene	0.6860043	4.7			RSD (15)	
Phenanthrene	1.107582	3.9			RSD (15)	
Anthracene	1.088514	7.5			RSD (15)	
Carbazole	0.942638	3.7			RSD (15)	
1-Methylphenanthrene	0.8129613	5.2			RSD (15)	
Fluoranthene	1.222426	5.2			RSD (15)	
Dibenzothiophene	0.9560816	2.4			RSD (15)	
Pyrene	1.289954	4.3			RSD (15)	
Benzo(a)anthracene	0.8634119	6.4			RSD (15)	
Chrysene	0.8581534	2.3			RSD (15)	
Benzo(b)fluoranthene	0.9748863	6.9			RSD (15)	
Benzo(j)fluoranthene	0.8589085	5.2			RSD (15)	
Benzo(k)fluoranthene	0.9825948	7.7			RSD (15)	
Benzo(a)anthracenes, Total	0.9045439	5.8			RSD (15)	
Benzo(e)pyrene	0.8926013	4.2			RSD (15)	
Benzo(a)pyrene	0.8433439	7.3			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.044347	7.5			RSD (15)	
Dibenzo(a,h)anthracene	0.9226661	9.0			RSD (15)	
Benzo(g,h,i)perylene	0.9174617	5.6			RSD (15)	



INITIAL CALIBRATION DATA
EPA 8270E-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
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,
				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

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INITIAL CALIBRATION DATA

Start Cal Date : 07-OCT-2020 10:24
 End Cal Date : 07-OCT-2020 15:56
 Quant Method : ISTD
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 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	0.1000000	0.2500000	0.5000000	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 <-

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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
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7			m1	m2	or R ²
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	Coefficients			%RSD
	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7		b	m1	m2	or R ²
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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	Level 1	Level 2	Level 3	Level 5	Level 6	Level 7			m1	m2	
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 <-

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	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	+++++	+++++

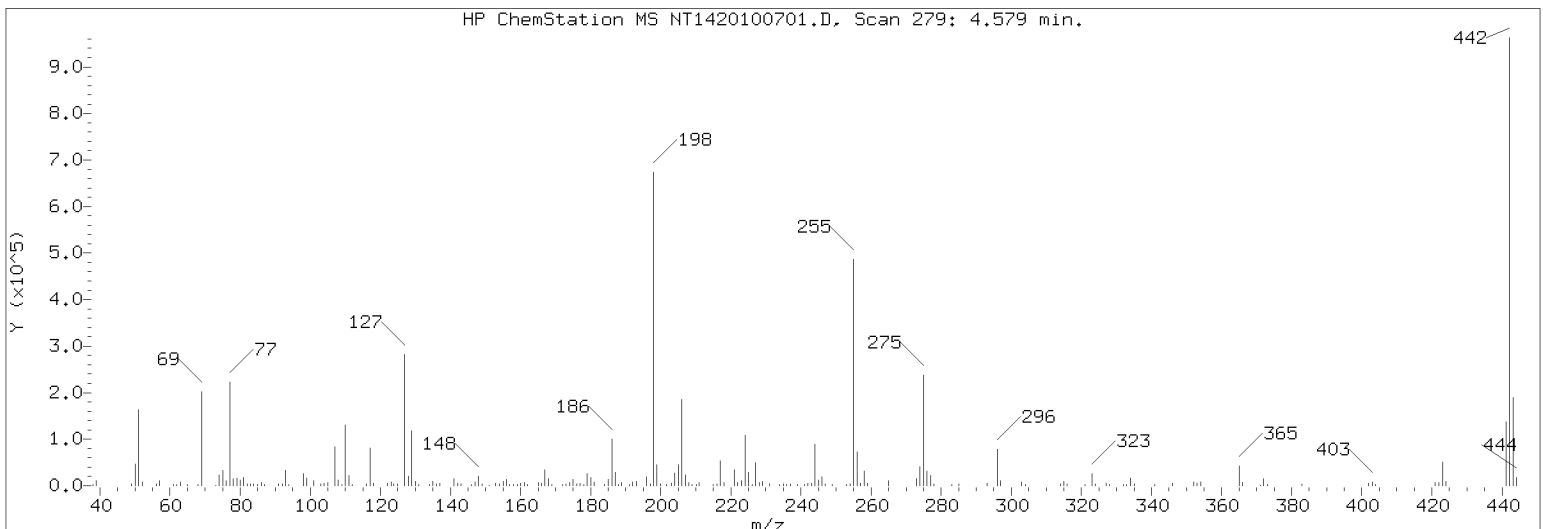
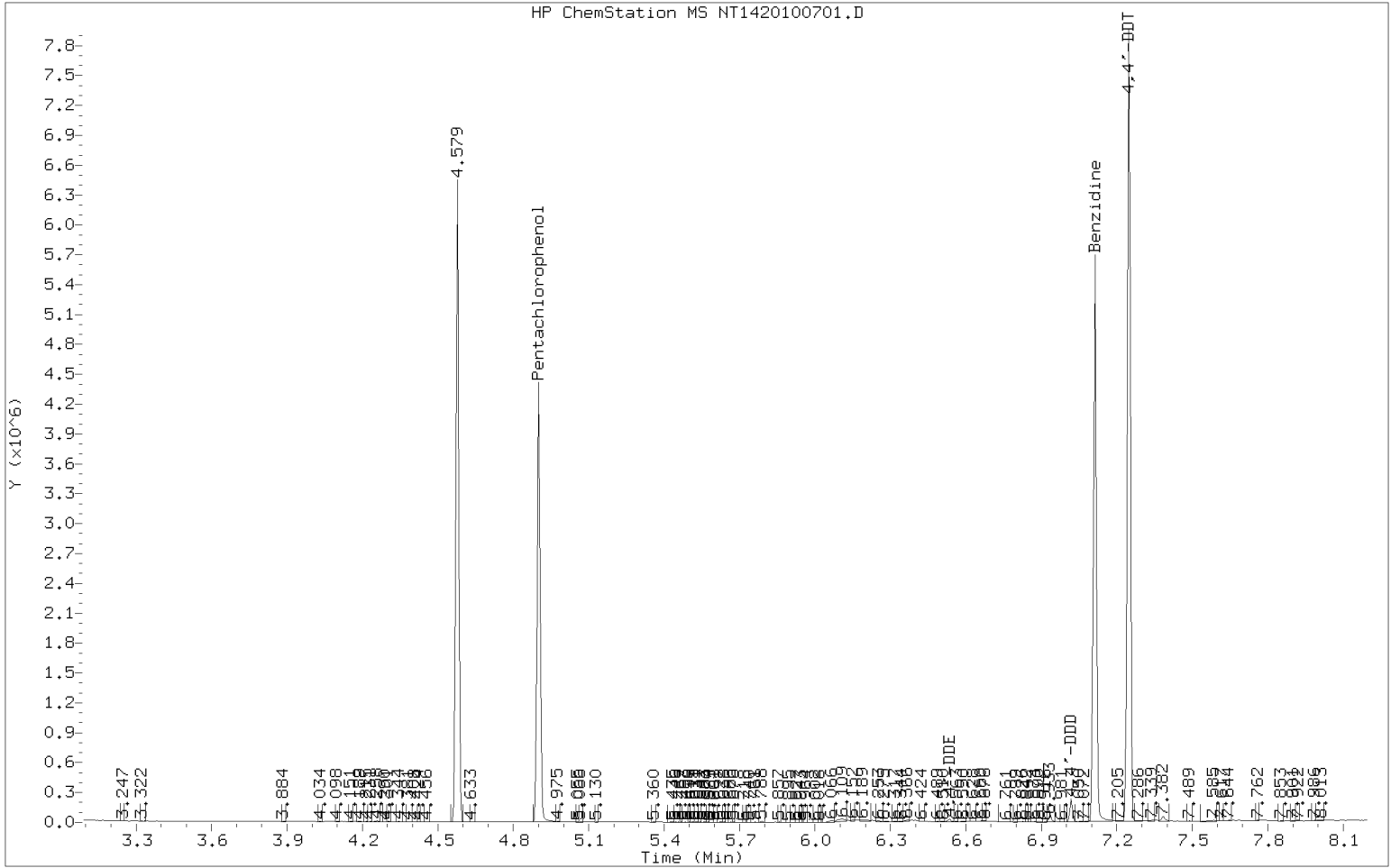
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

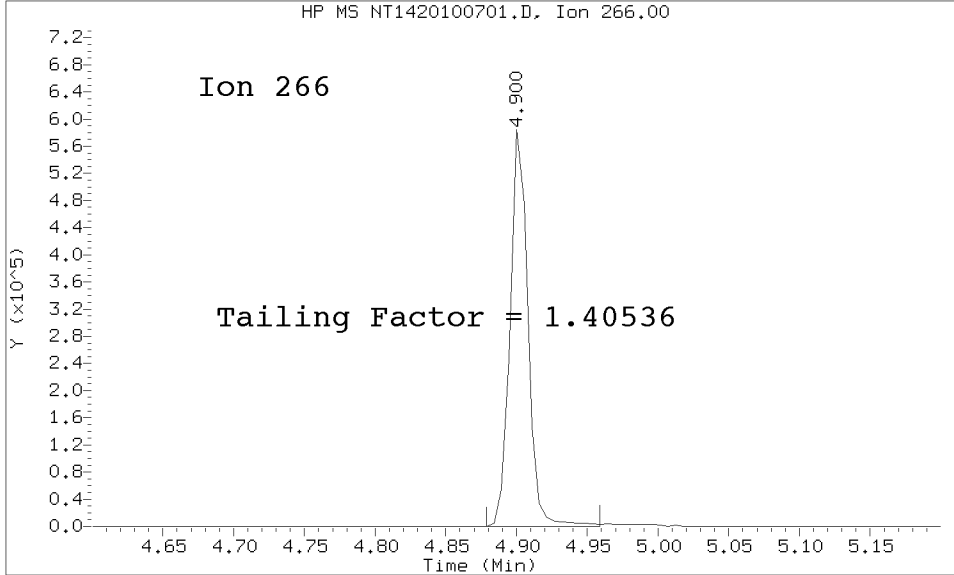
Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
283 n-Pentatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	27.370	24.370-30.370	+++++	+++++
284 n-Hexatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	27.936	24.936-30.936	+++++	+++++
285 n-Heptatriacontane	+++++	+++++	+++++	+++++	+++++	+++++	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



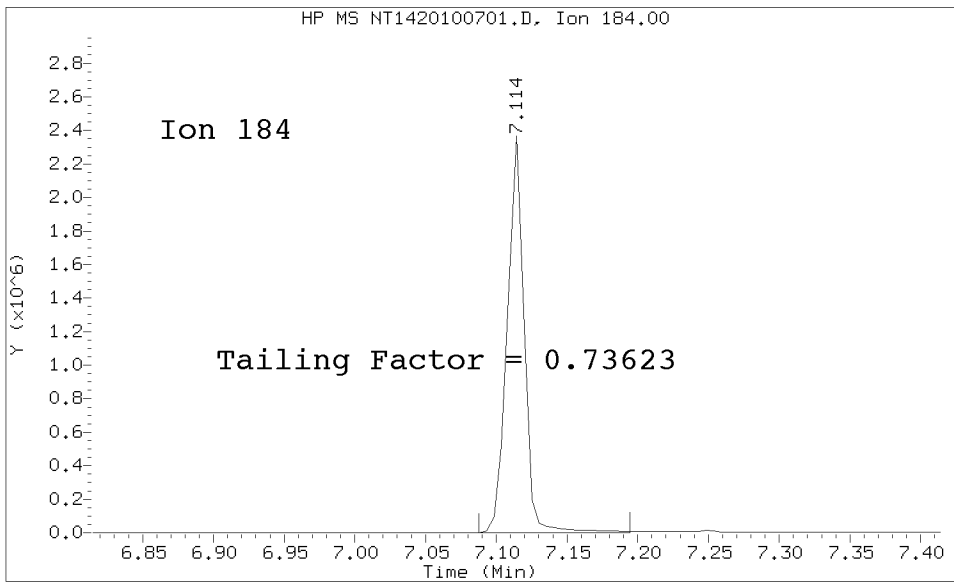
Datafile Analyzed: /20201007.b/NT1420100701.D/NT1420100701.D
Method Used: \20201007.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 07-OCT-2020 10:11 Operator: JZ
Sample Info: SIJ0XXX-TUN1
Report Date: 10/09/2020 08:53



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	

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

Date : 07-OCT-2020 10:24

Client ID:

Sample Info: S100085-CAL4

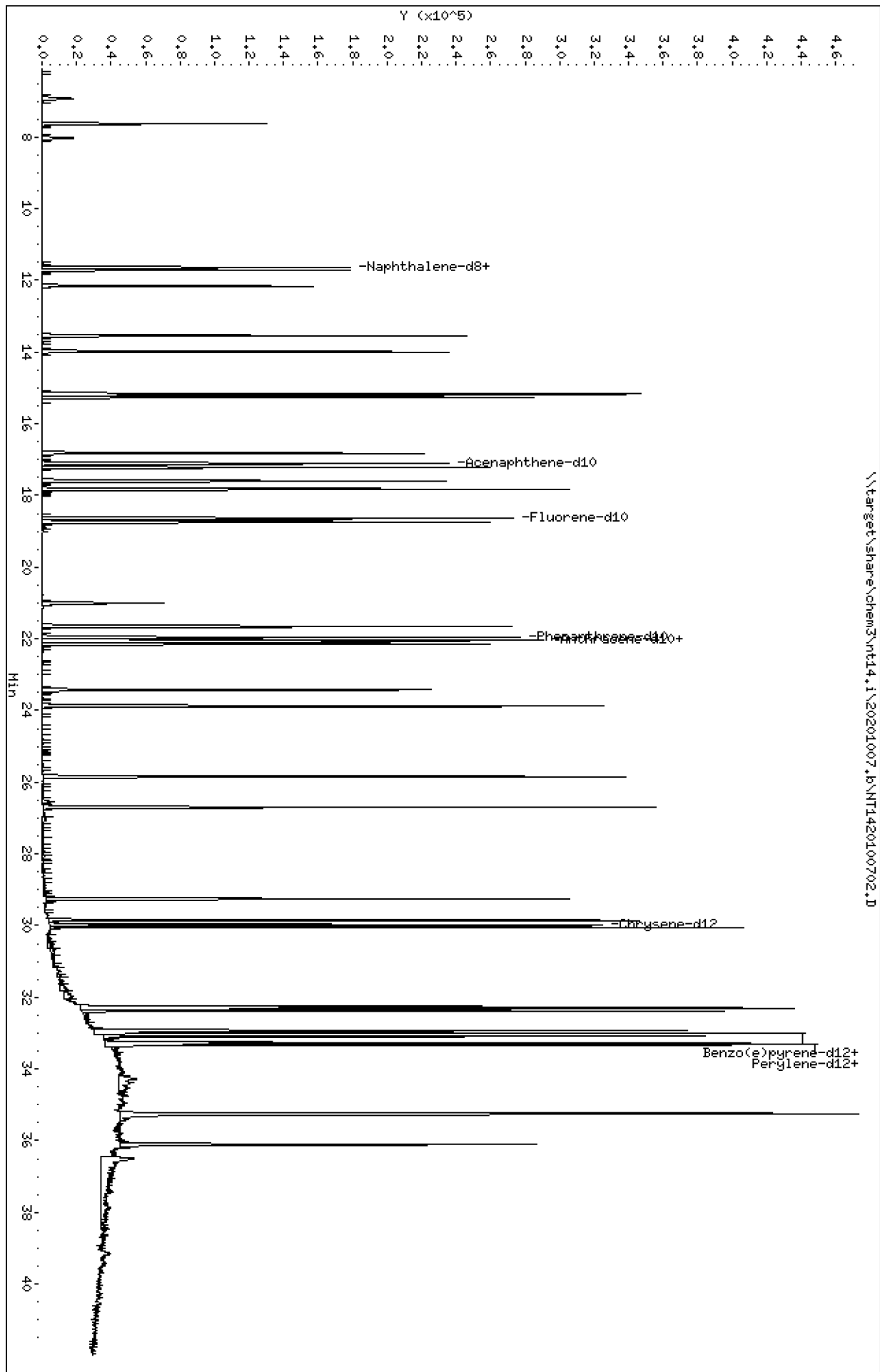
Column phase: Rxi-17S11 MS

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		AMOUNTS				
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
1 trans-Decalin	138	6.924	6.934	(0.372)	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

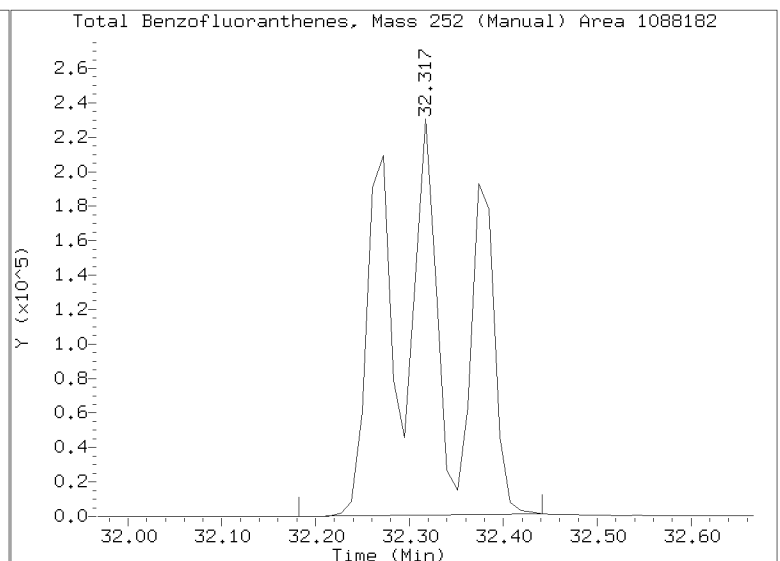
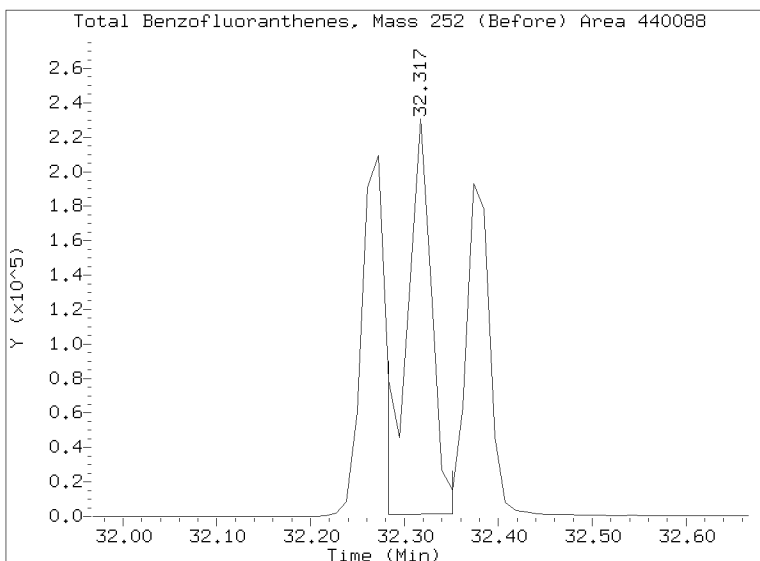
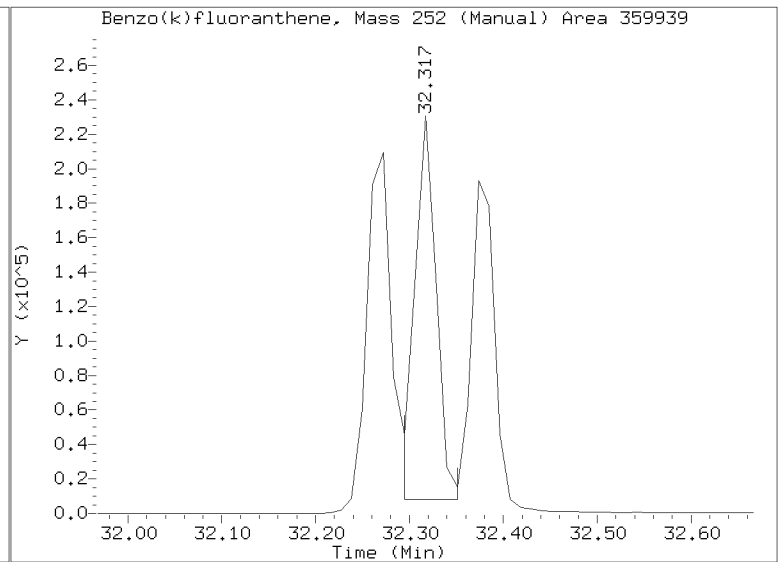
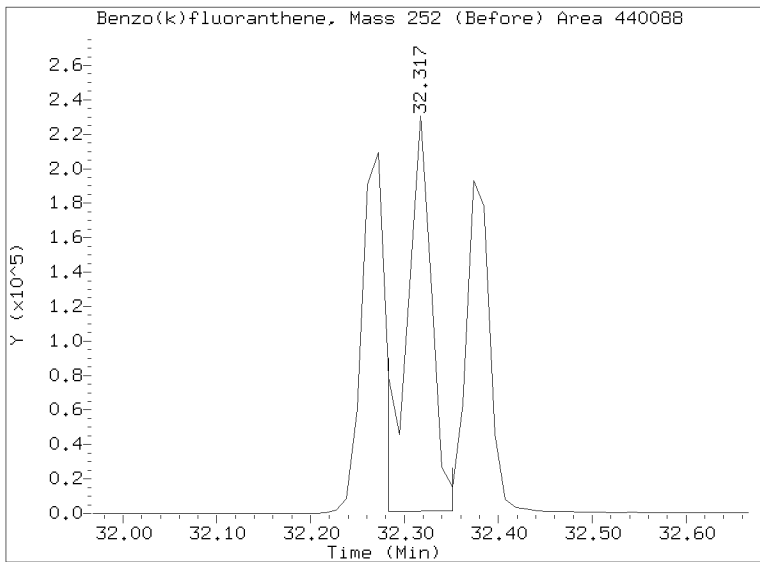
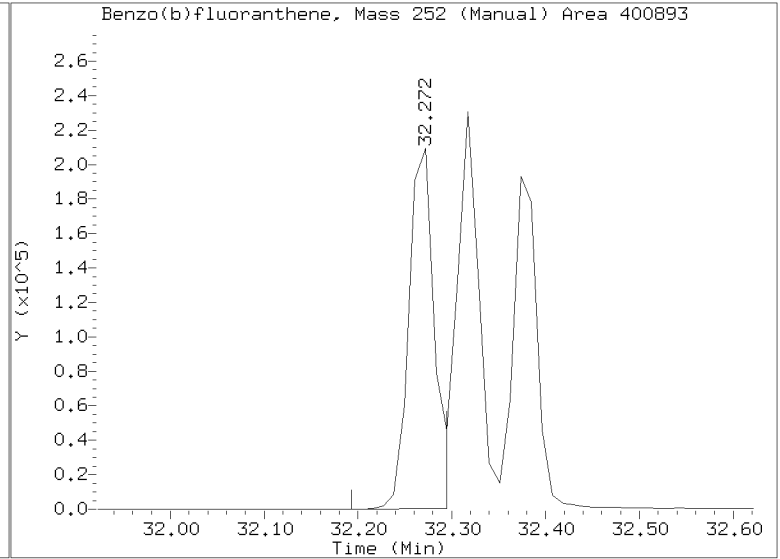
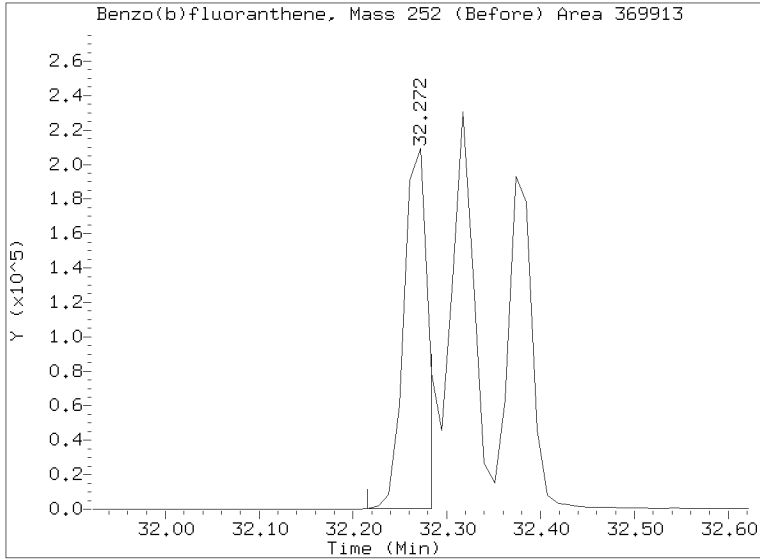
RRT check based on Ccal File: NT1420100711.D

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



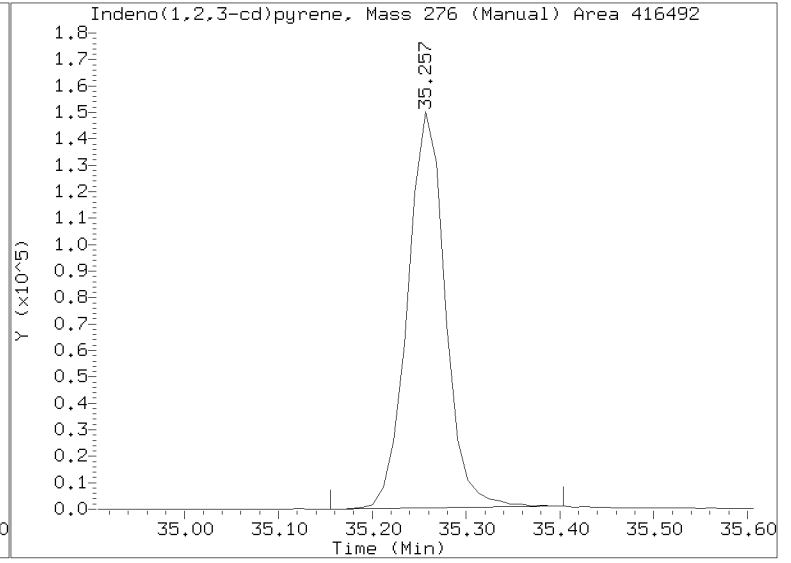
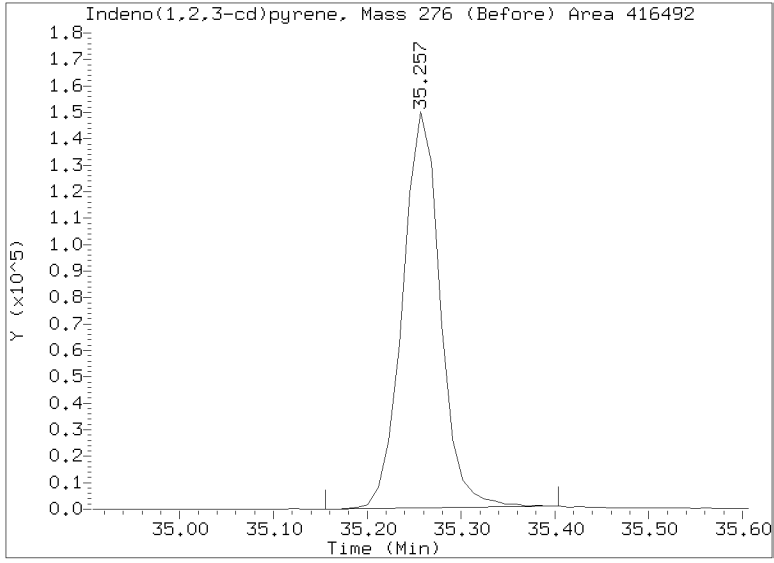
Quant Ion Manual Peak Adjustment Report

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

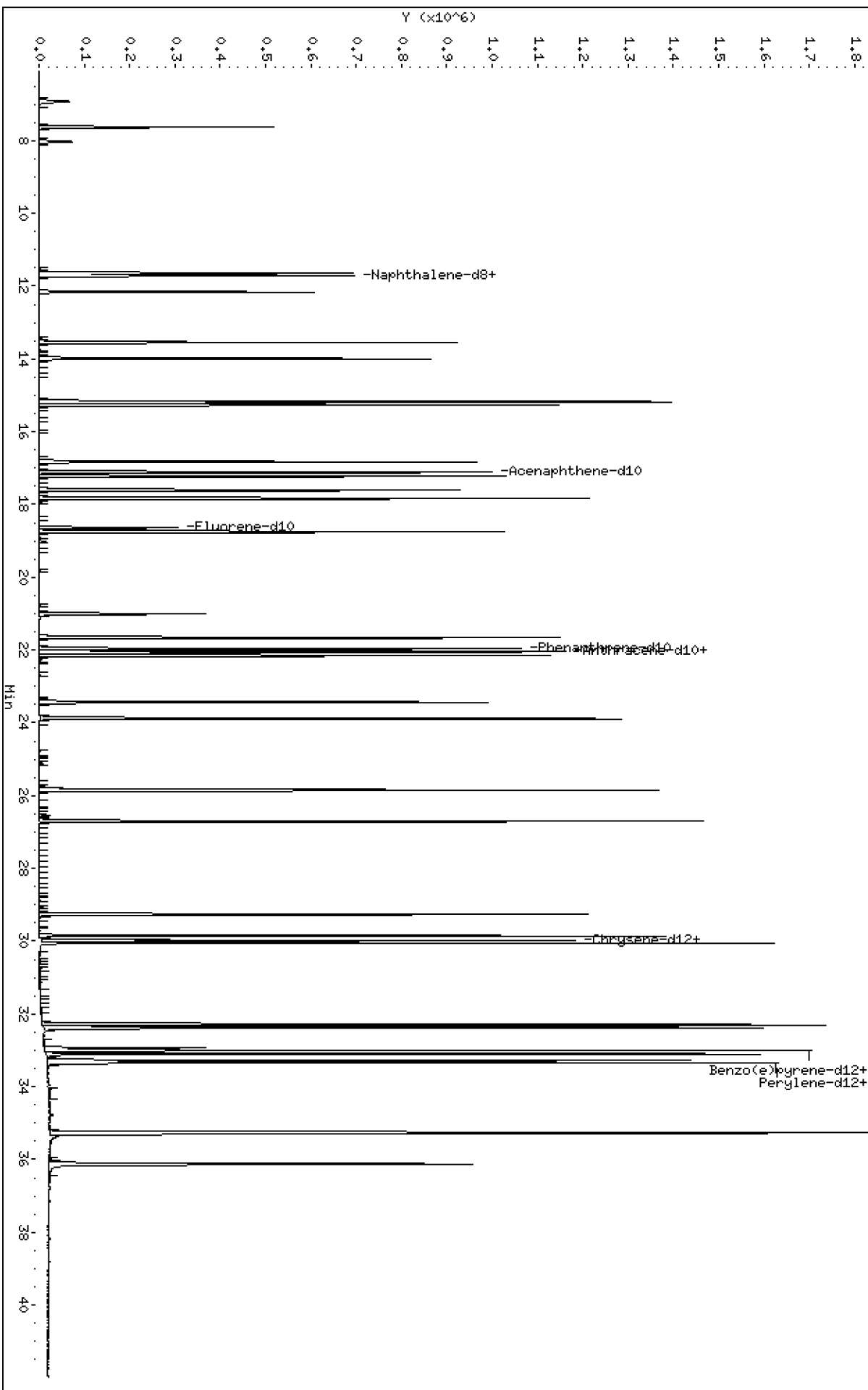
Column phase: Rxi-17S11 MS

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 *

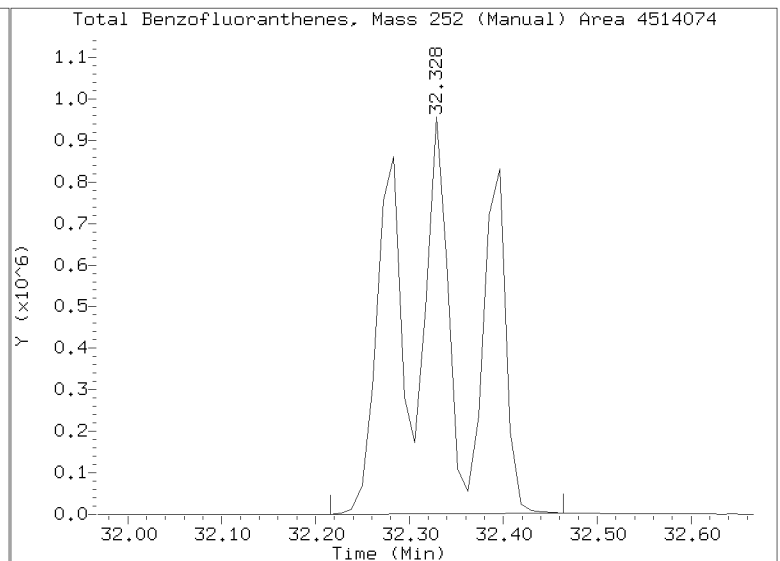
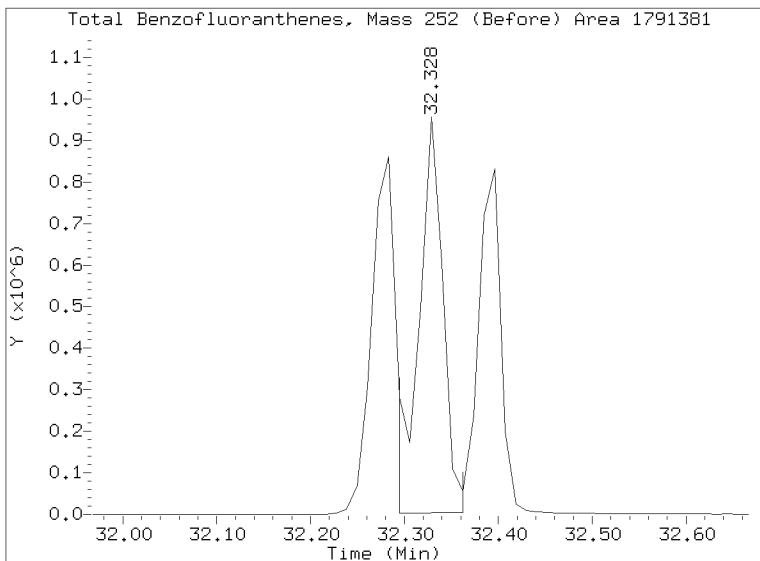
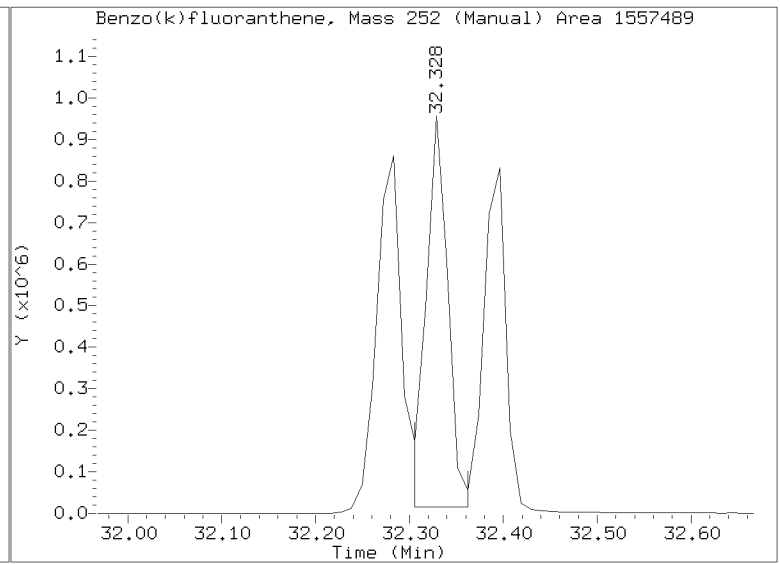
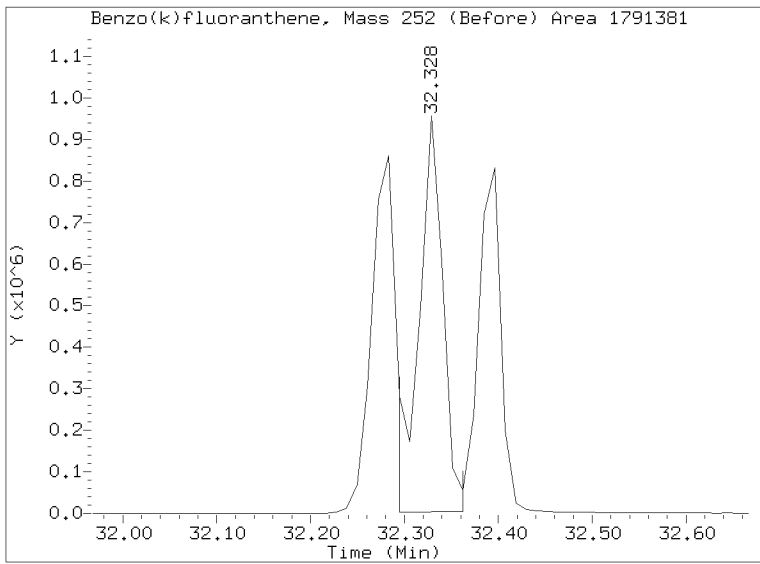
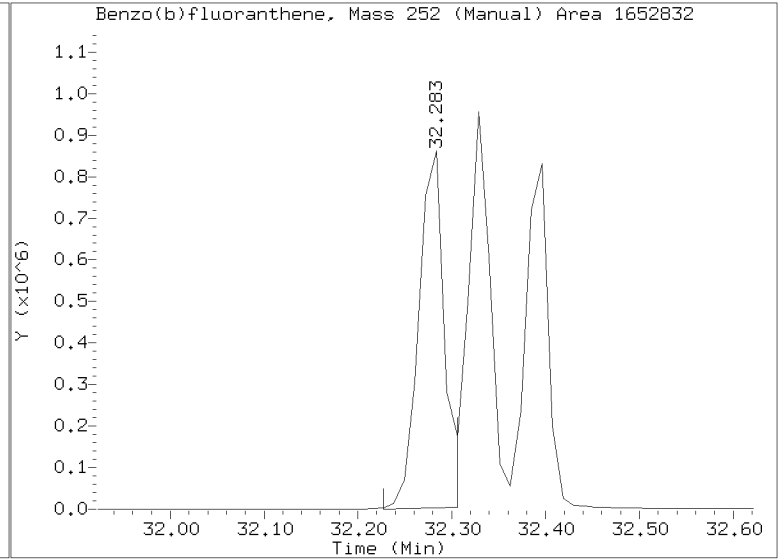
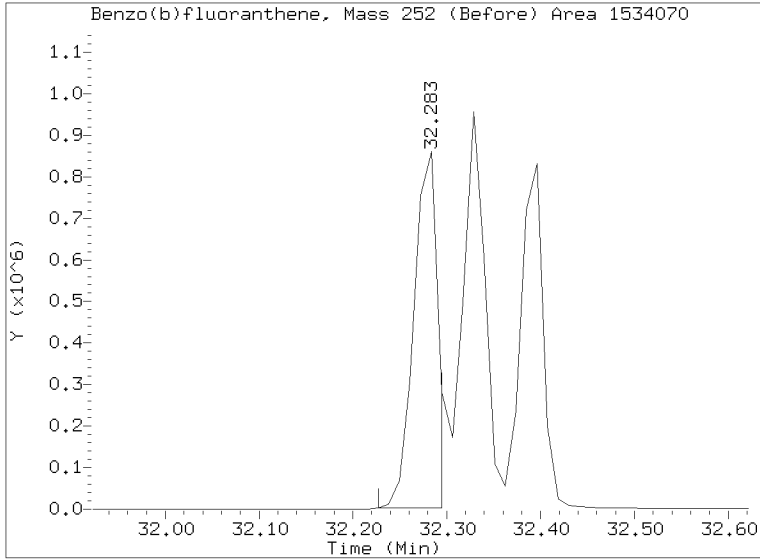
Quant Ion Manual Peak Adjustment Report

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



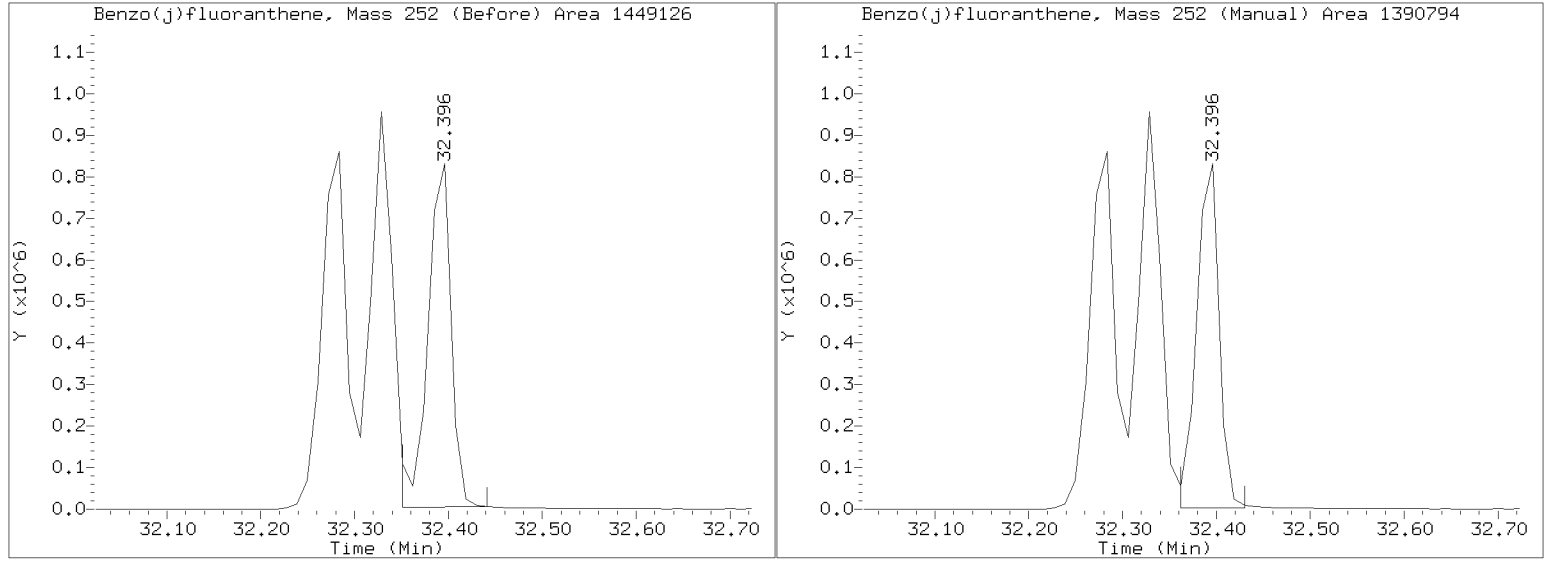
Quant Ion Manual Peak Adjustment Report

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:

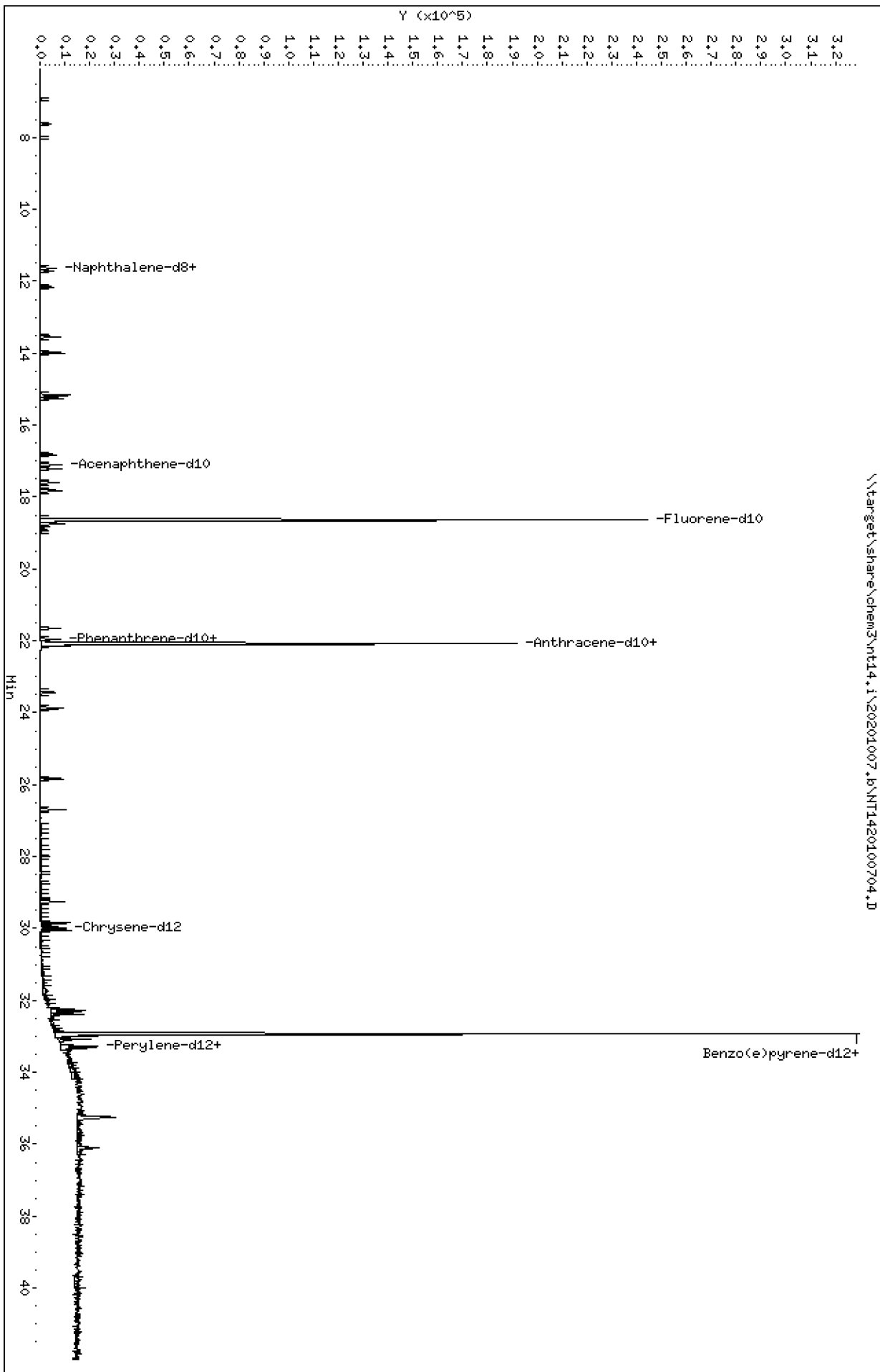
Sample Info: S100085-CALL

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	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)	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	
	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

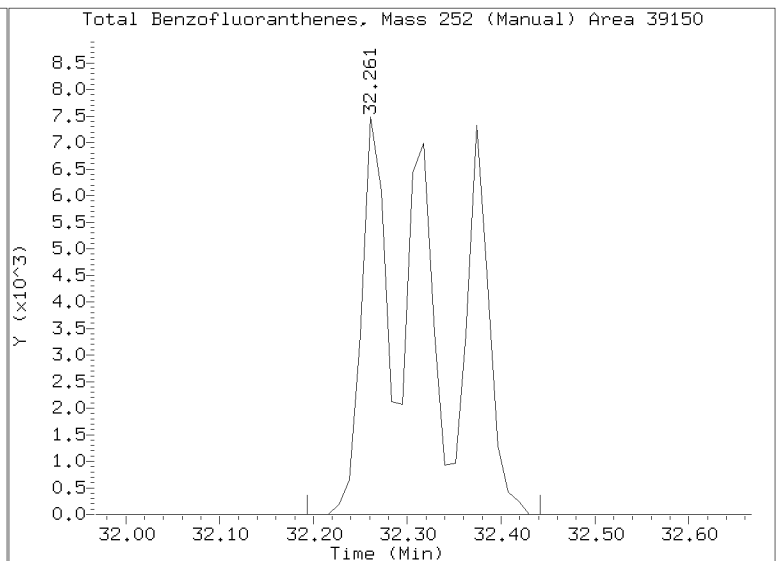
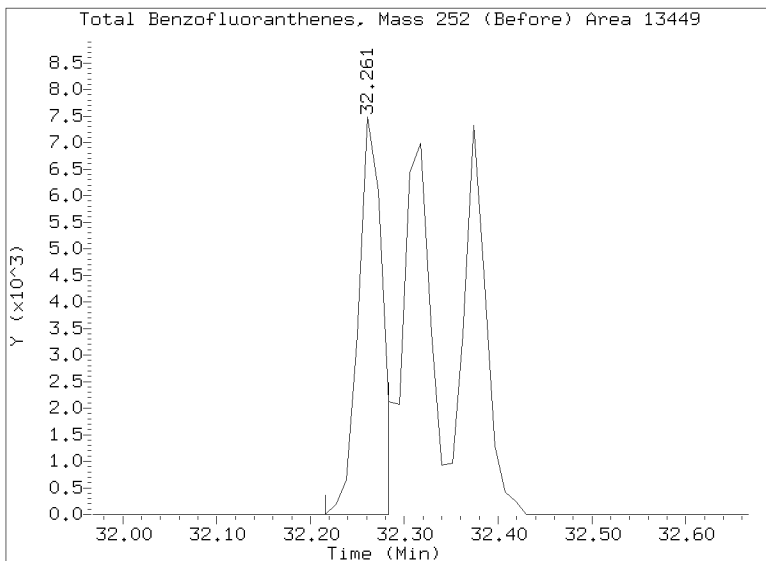
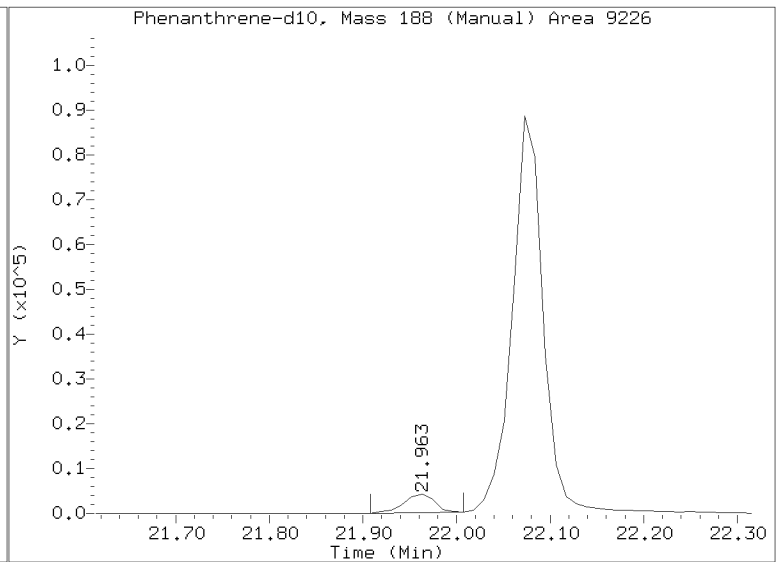
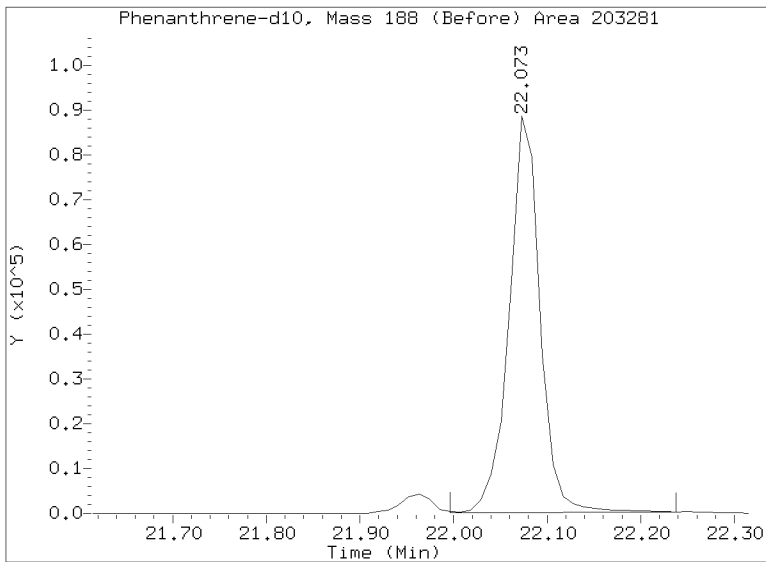
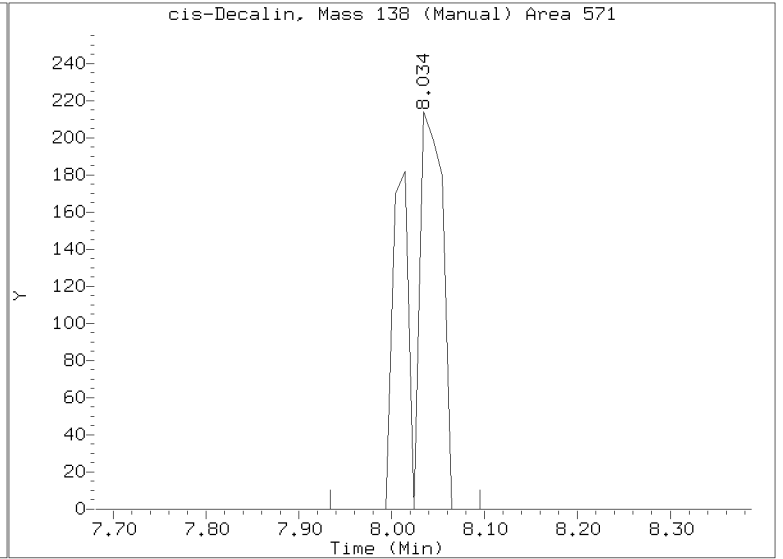
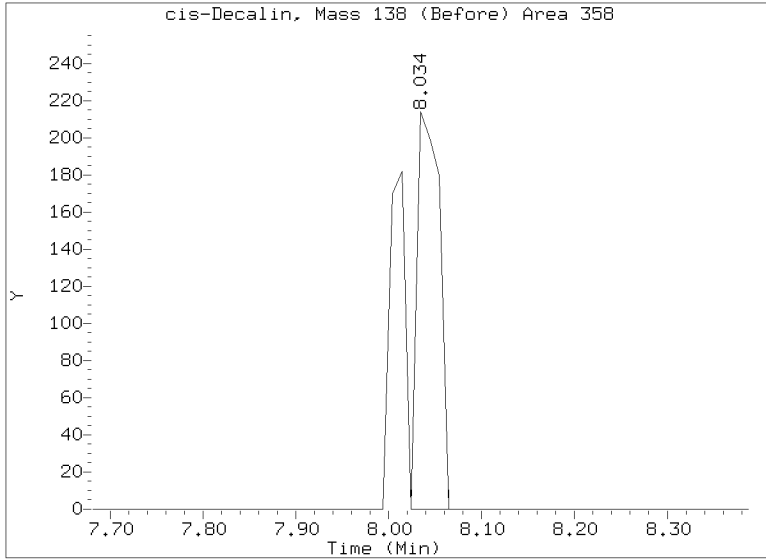
RRT check based on Ccal File: NT1420100711.D

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



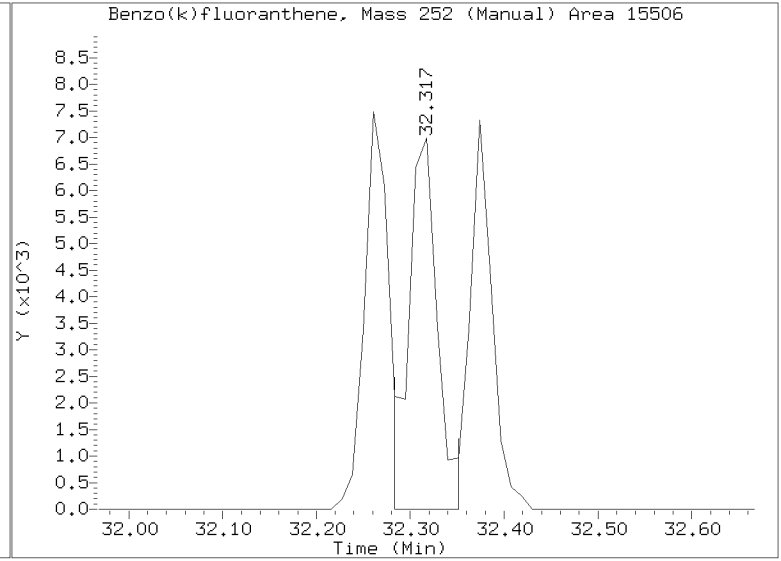
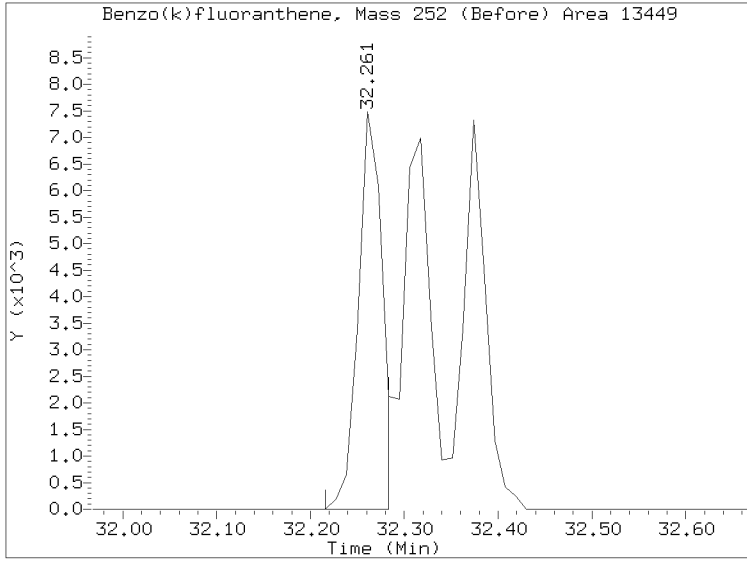
Quant Ion Manual Peak Adjustment Report

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

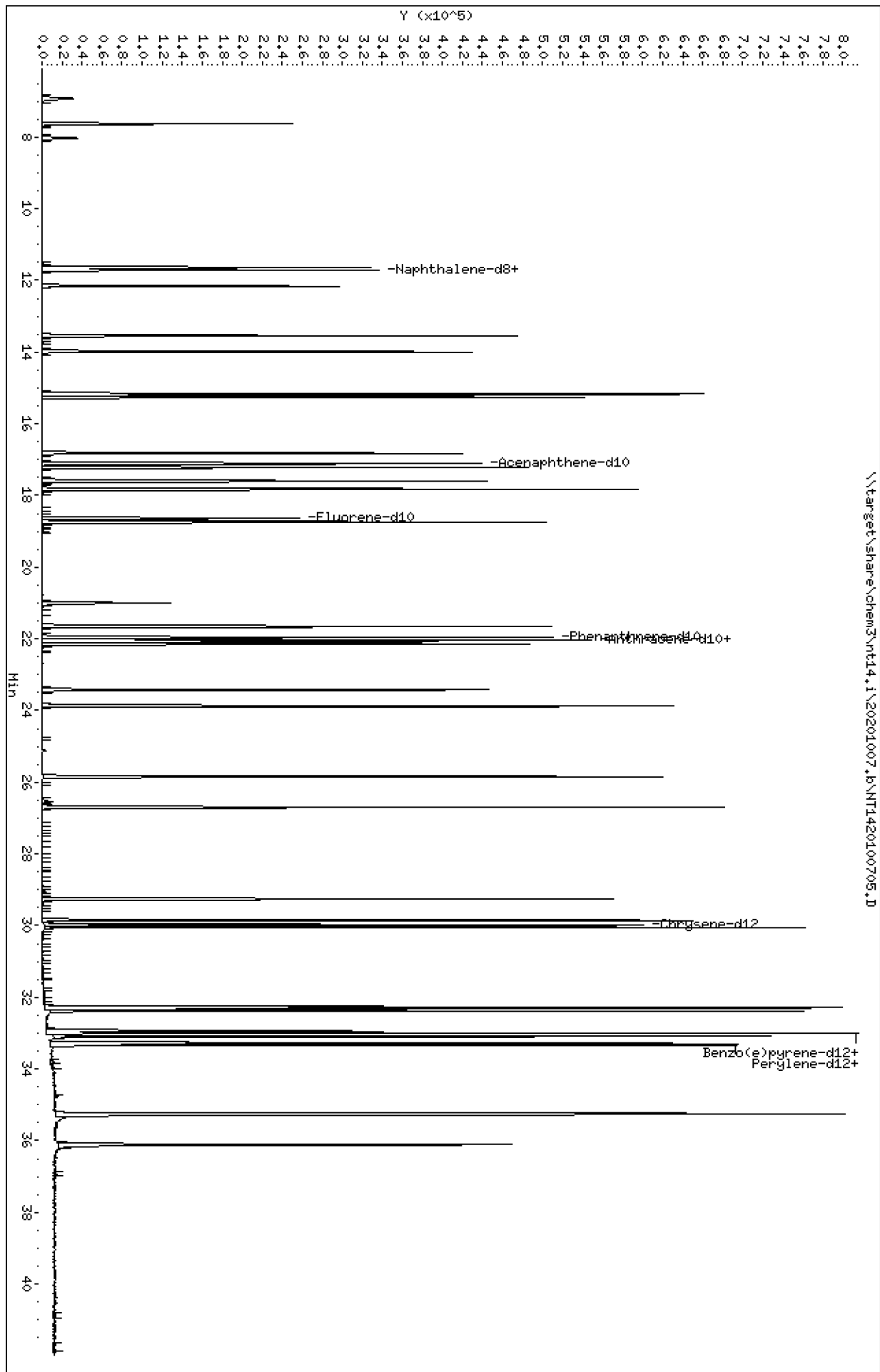
Column phase: Rxi-17S11 MS

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		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)	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	
	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)	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.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 07-OCT-2020
Lab File ID: NT1420100705.D Calibration Time: 18:22
Lab Smp Id: SIJ0085-CAL5
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	221965	5.90
250 Anthracene-d10	192407	96204	384814	204432	6.25
251 Benzo(e)pyrene-d1	274120	137060	548240	290471	5.96

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 - 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

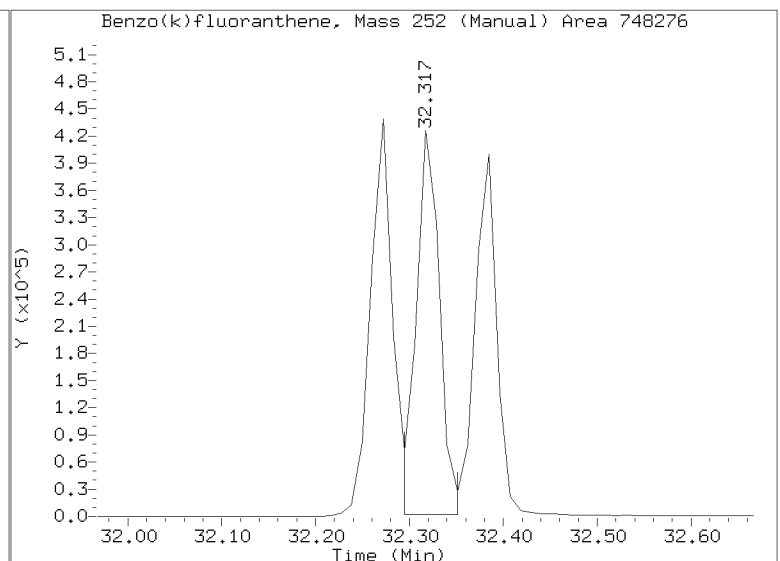
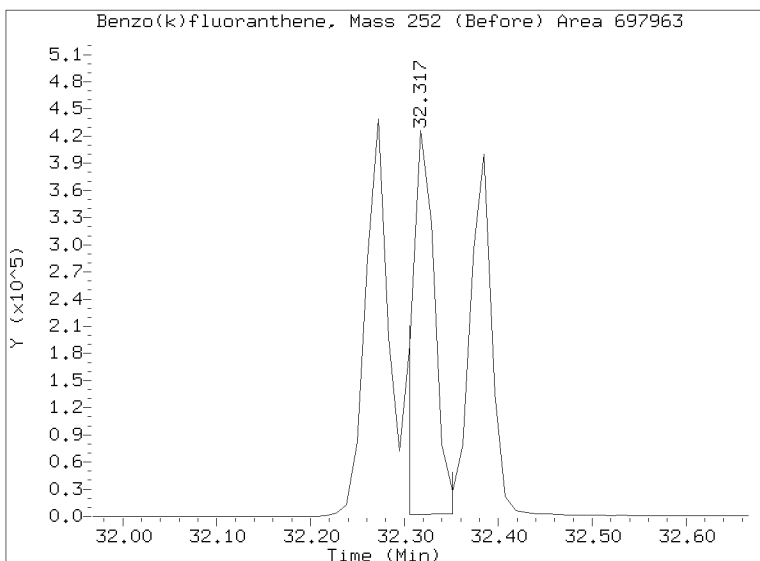
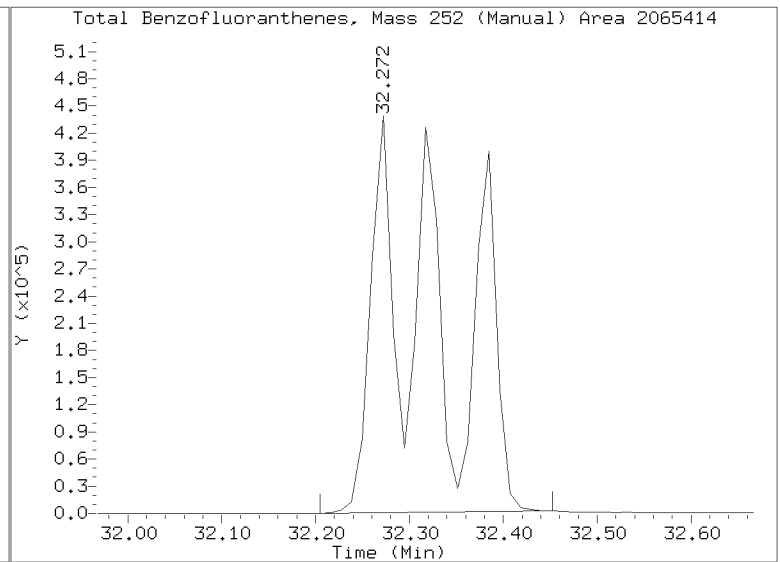
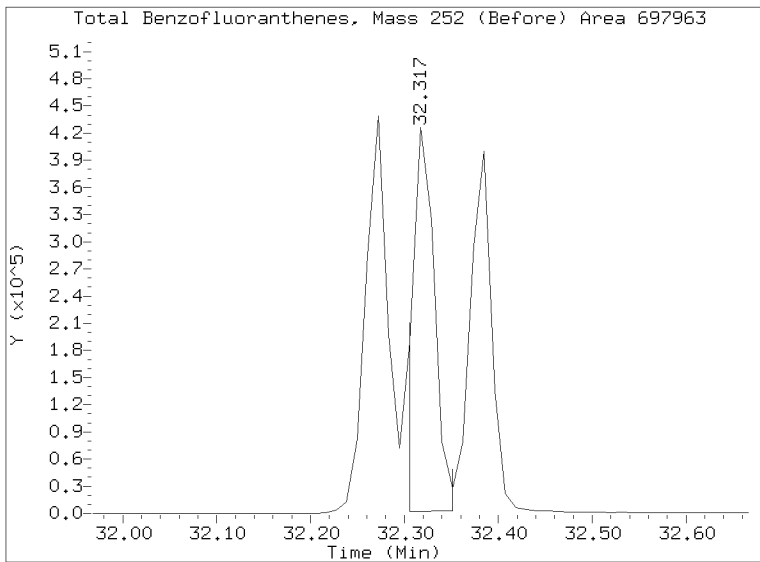
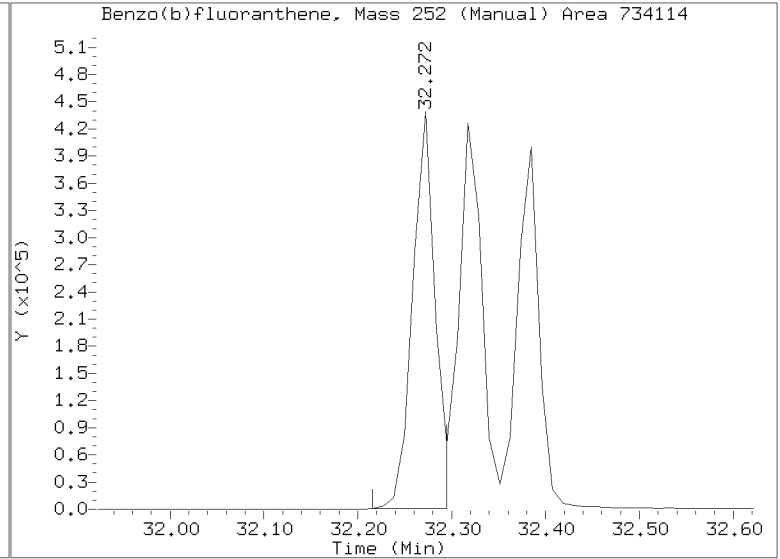
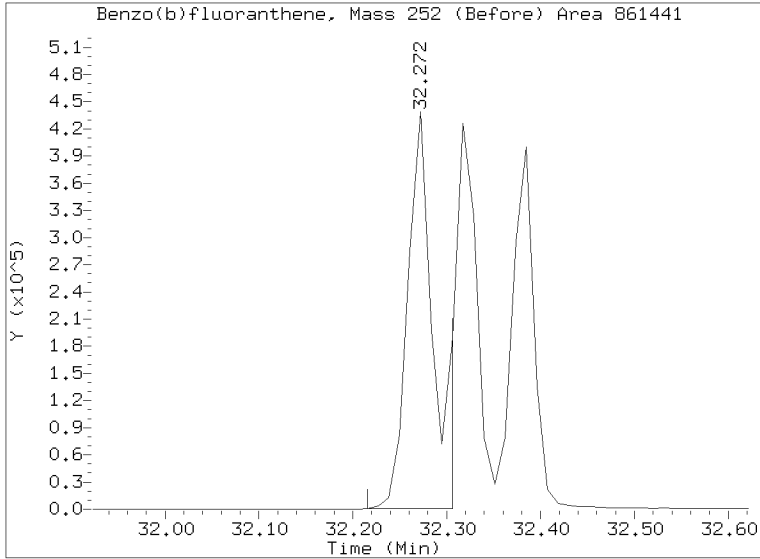
RRT check based on Ccal File: NT1420100711.D

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 *

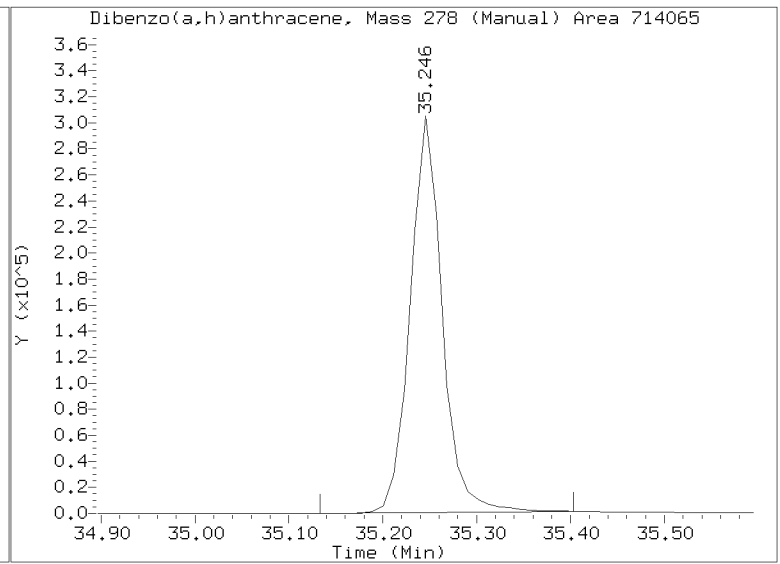
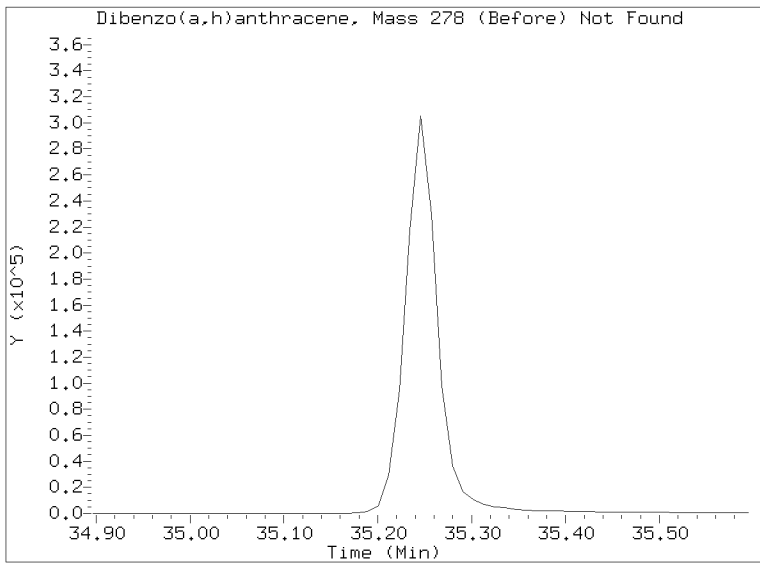
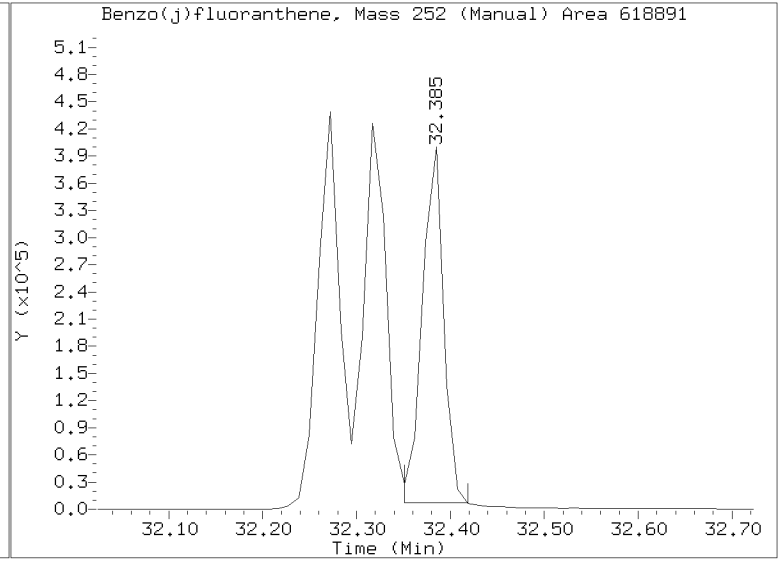
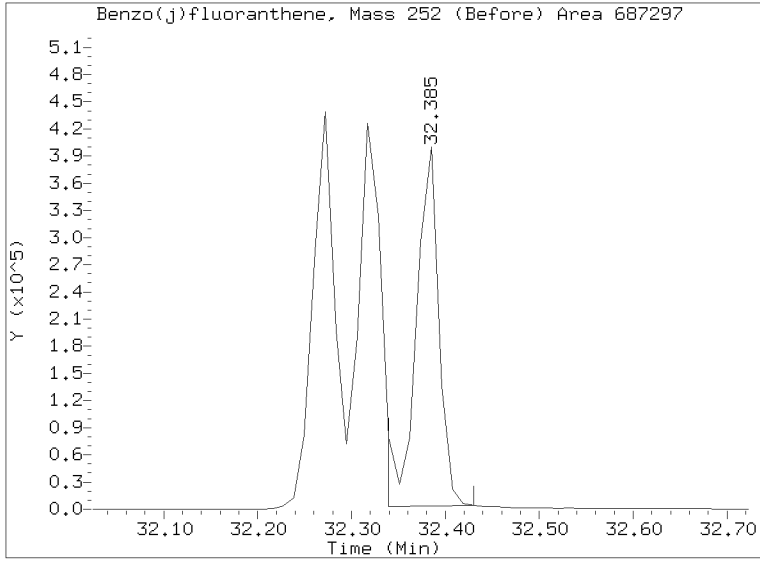
Quant Ion Manual Peak Adjustment Report

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

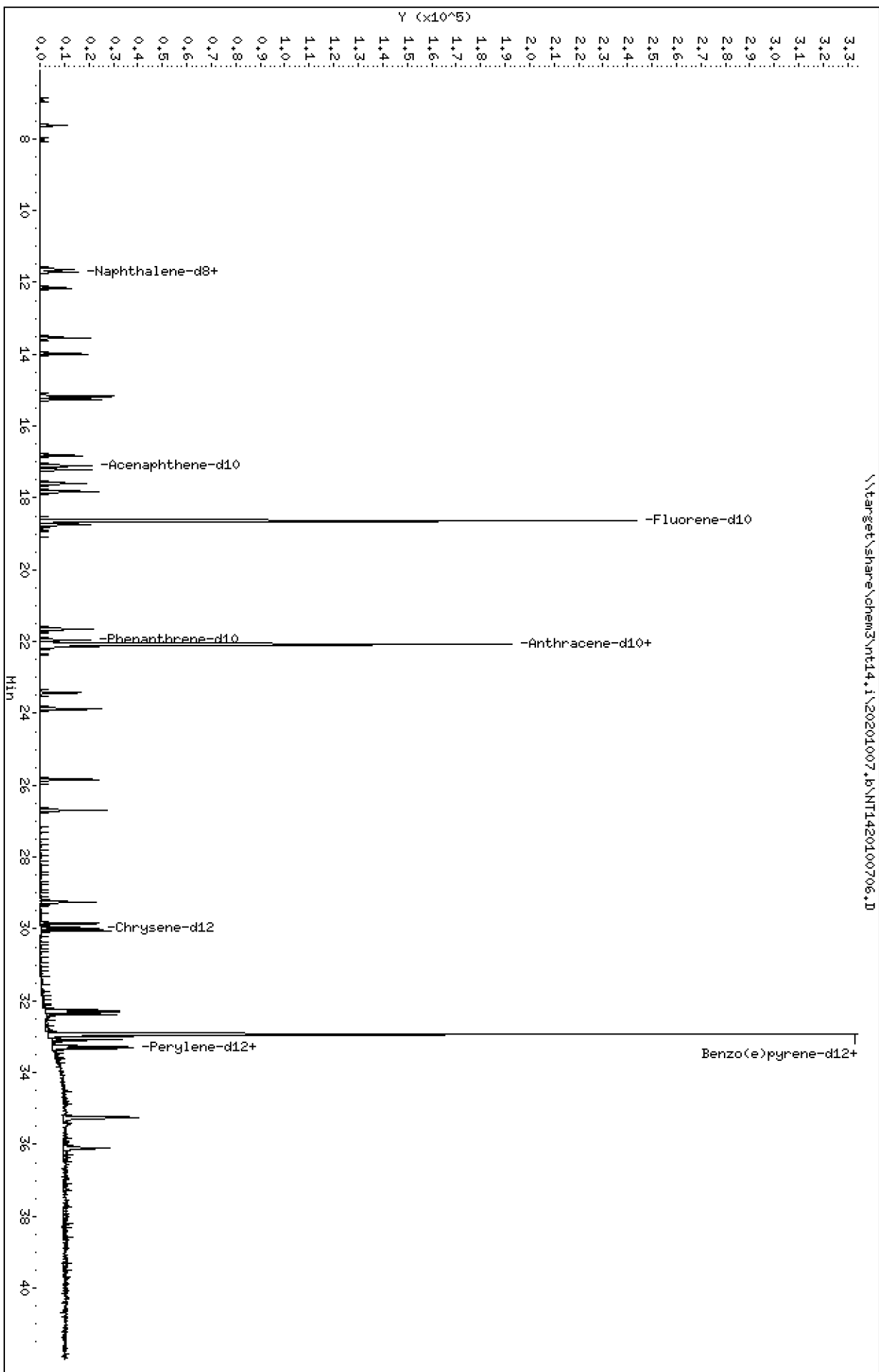
Column phase: Rxi-17S11 MS

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		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)	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 *

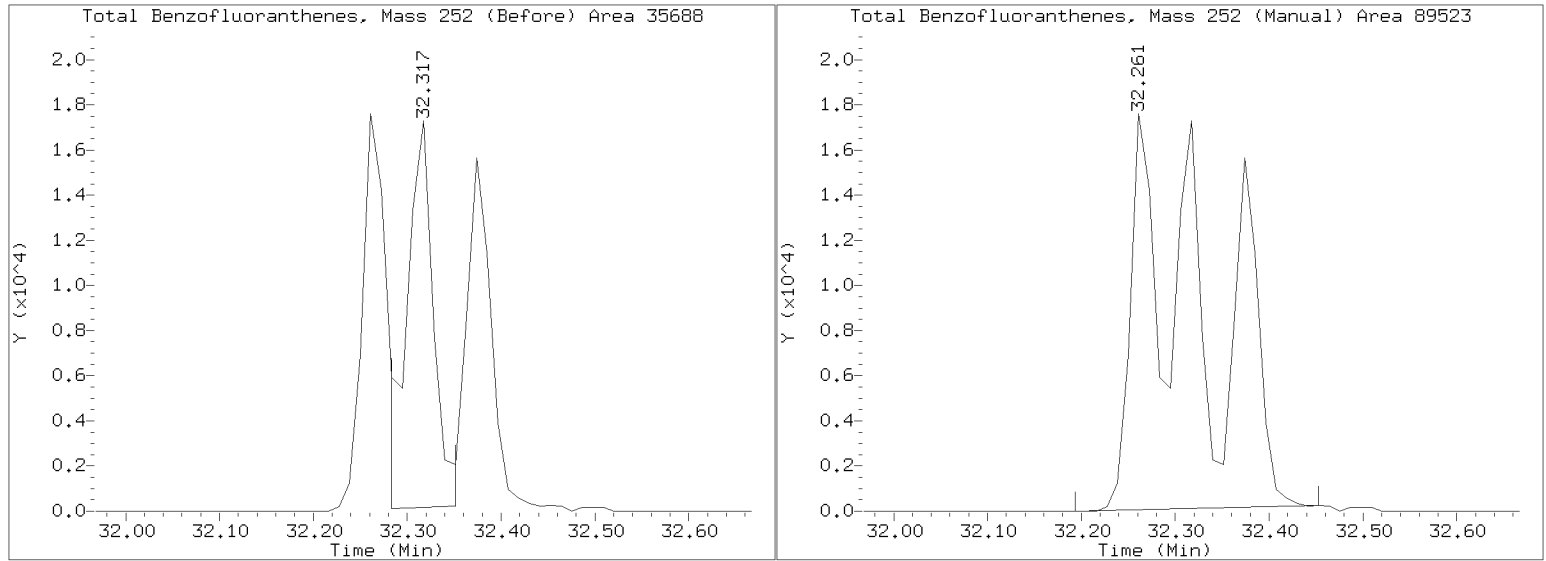
Quant Ion Manual Peak Adjustment Report

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\20201007,6\NT1420100707.D

Date : 07-OCT-2020 15:08

Client ID:

Sample Info: S100085-CAL3

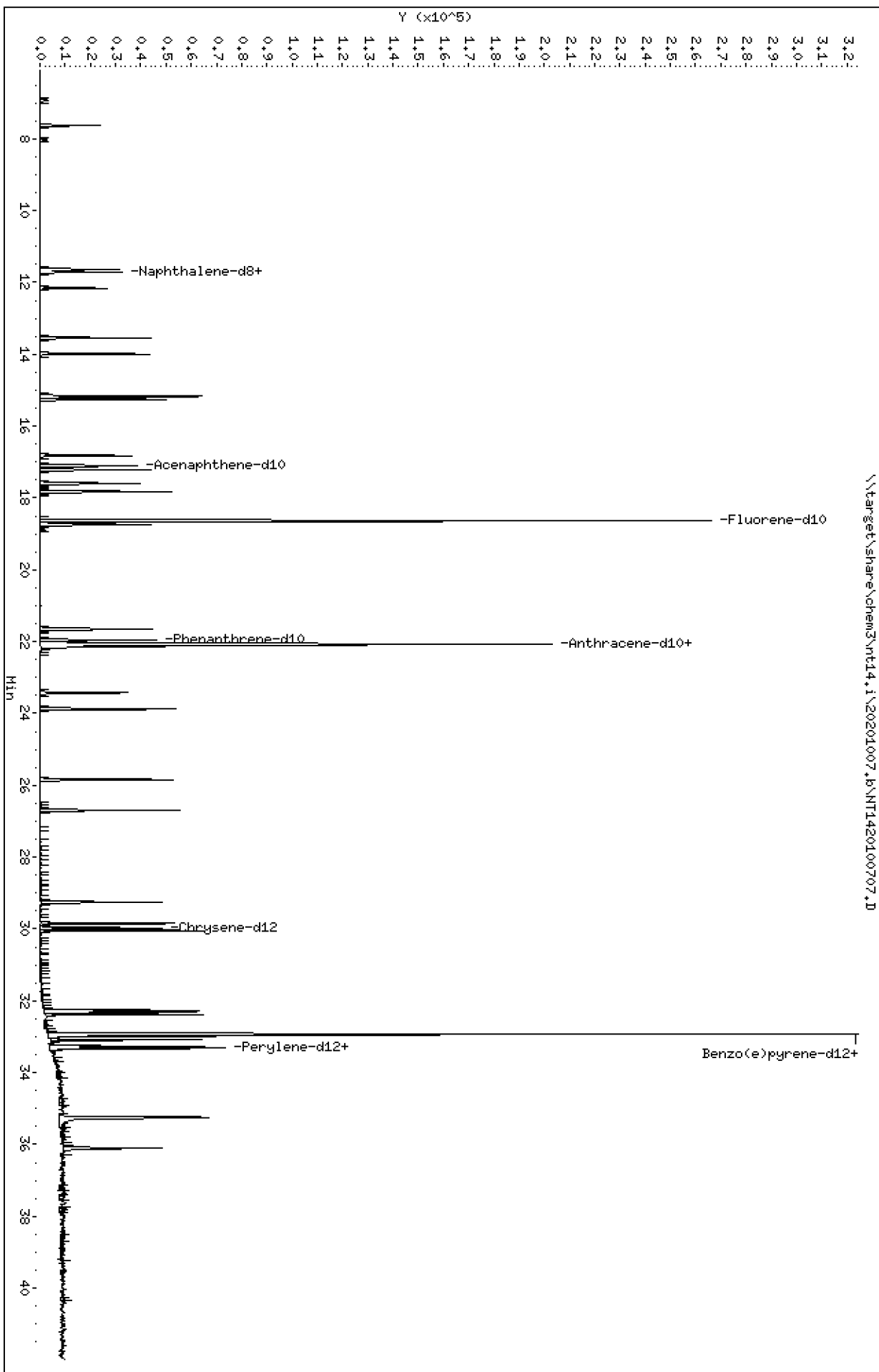
Column phase: Rxi-17S11 MS

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 *

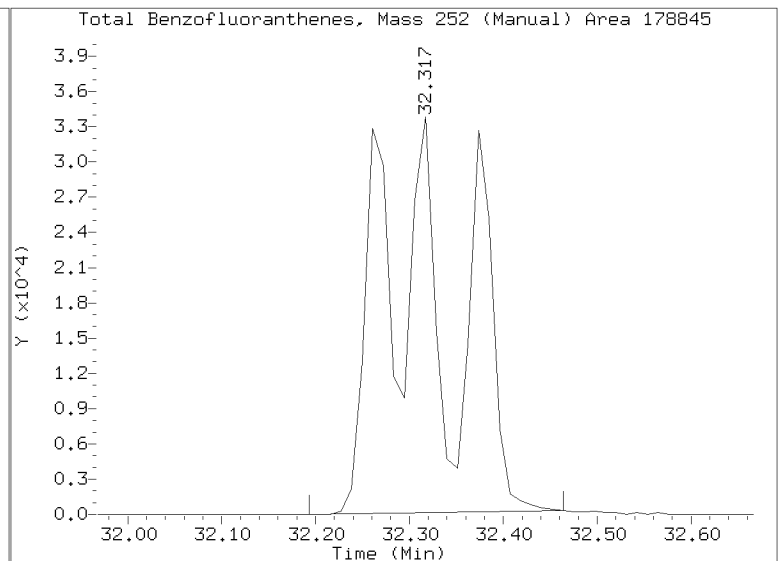
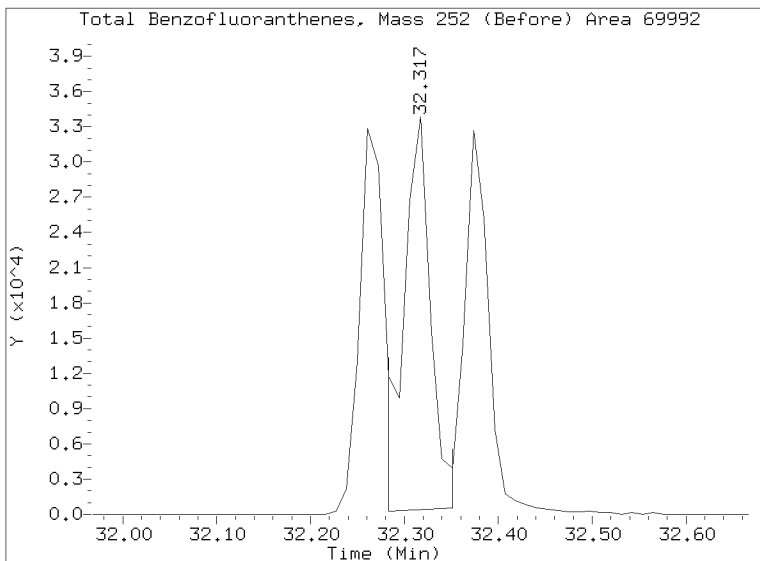
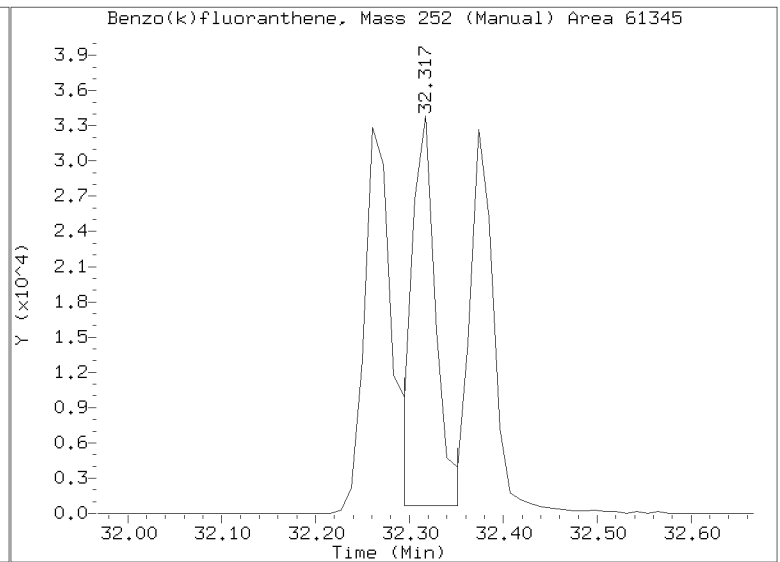
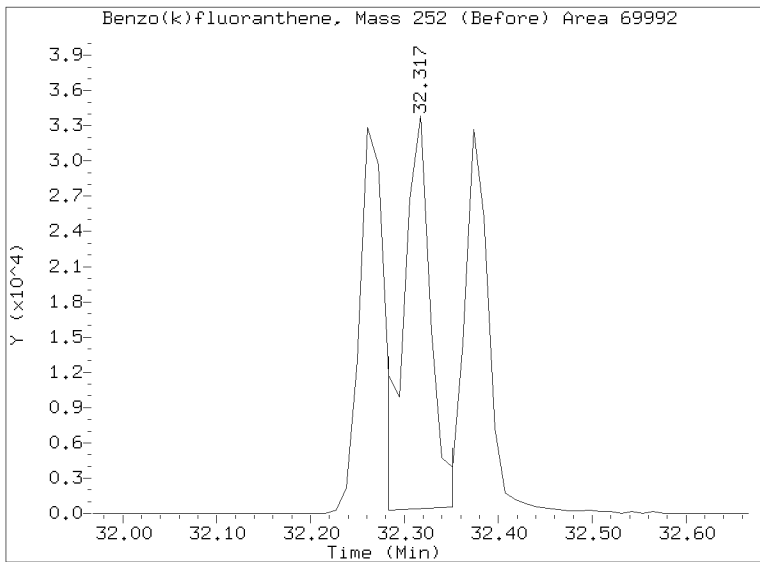
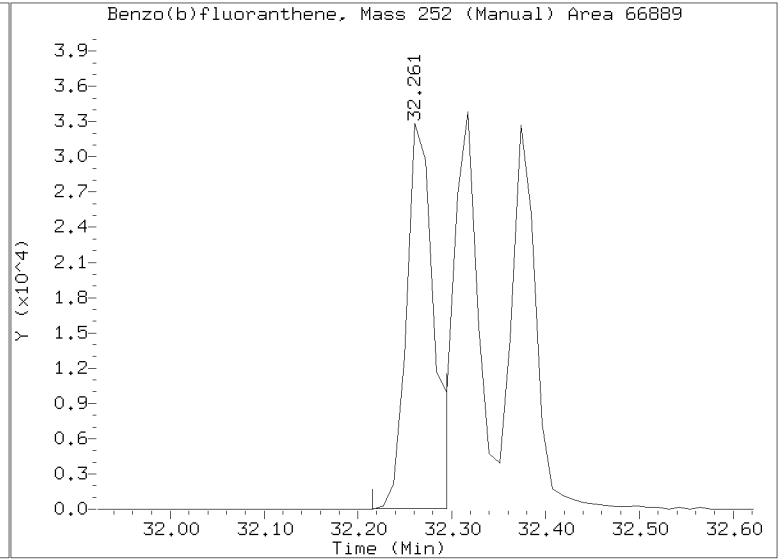
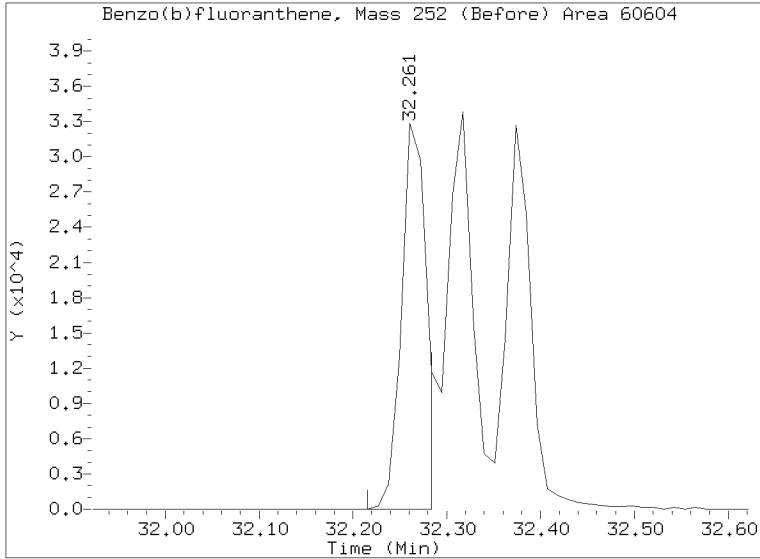
Quant Ion Manual Peak Adjustment Report

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



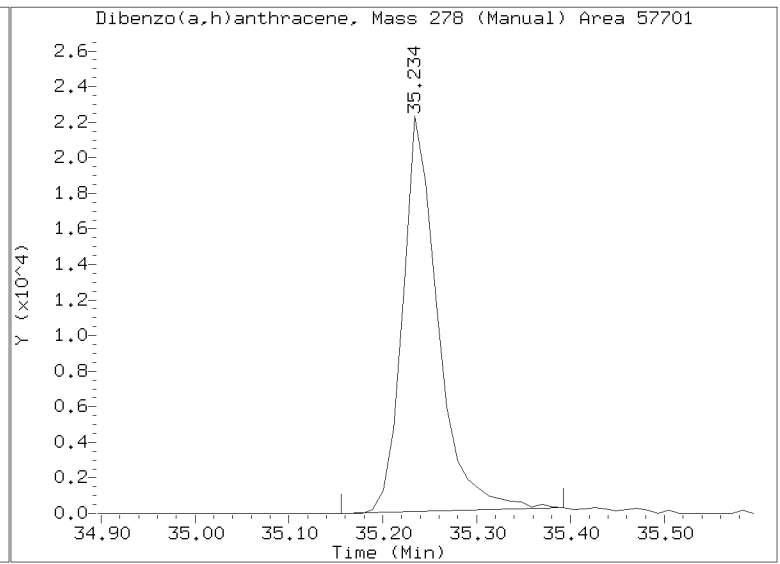
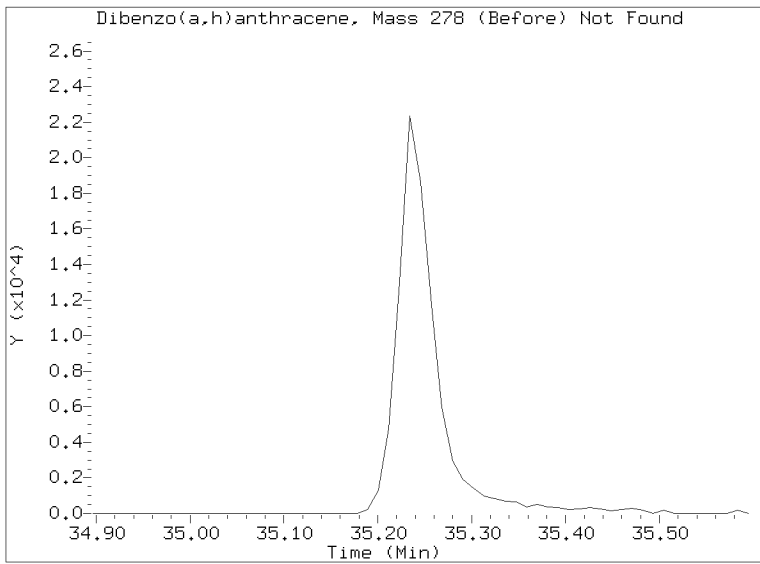
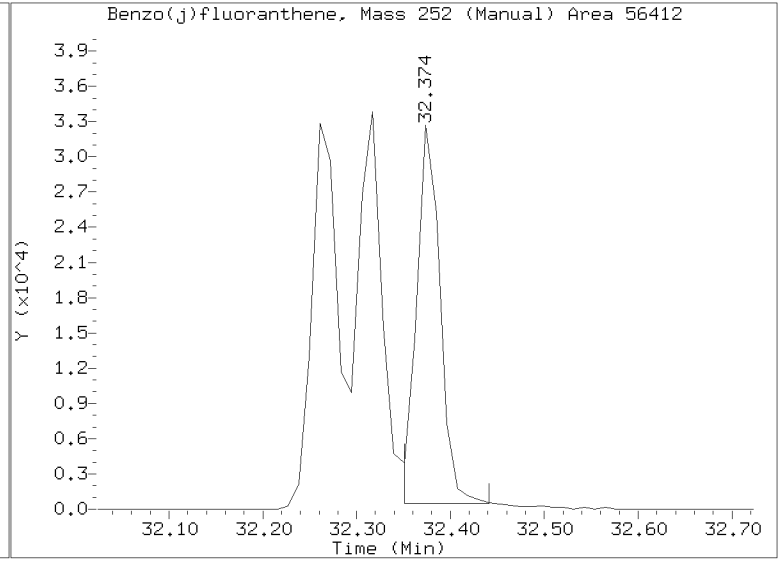
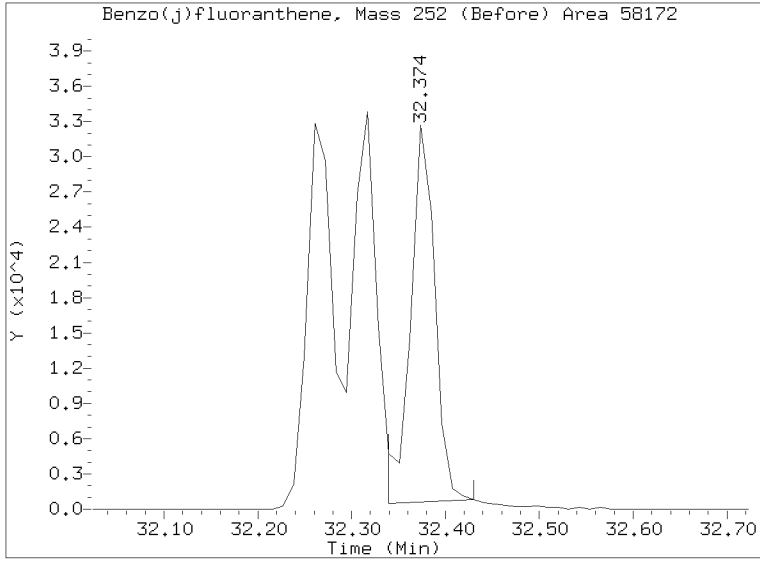
Quant Ion Manual Peak Adjustment Report

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

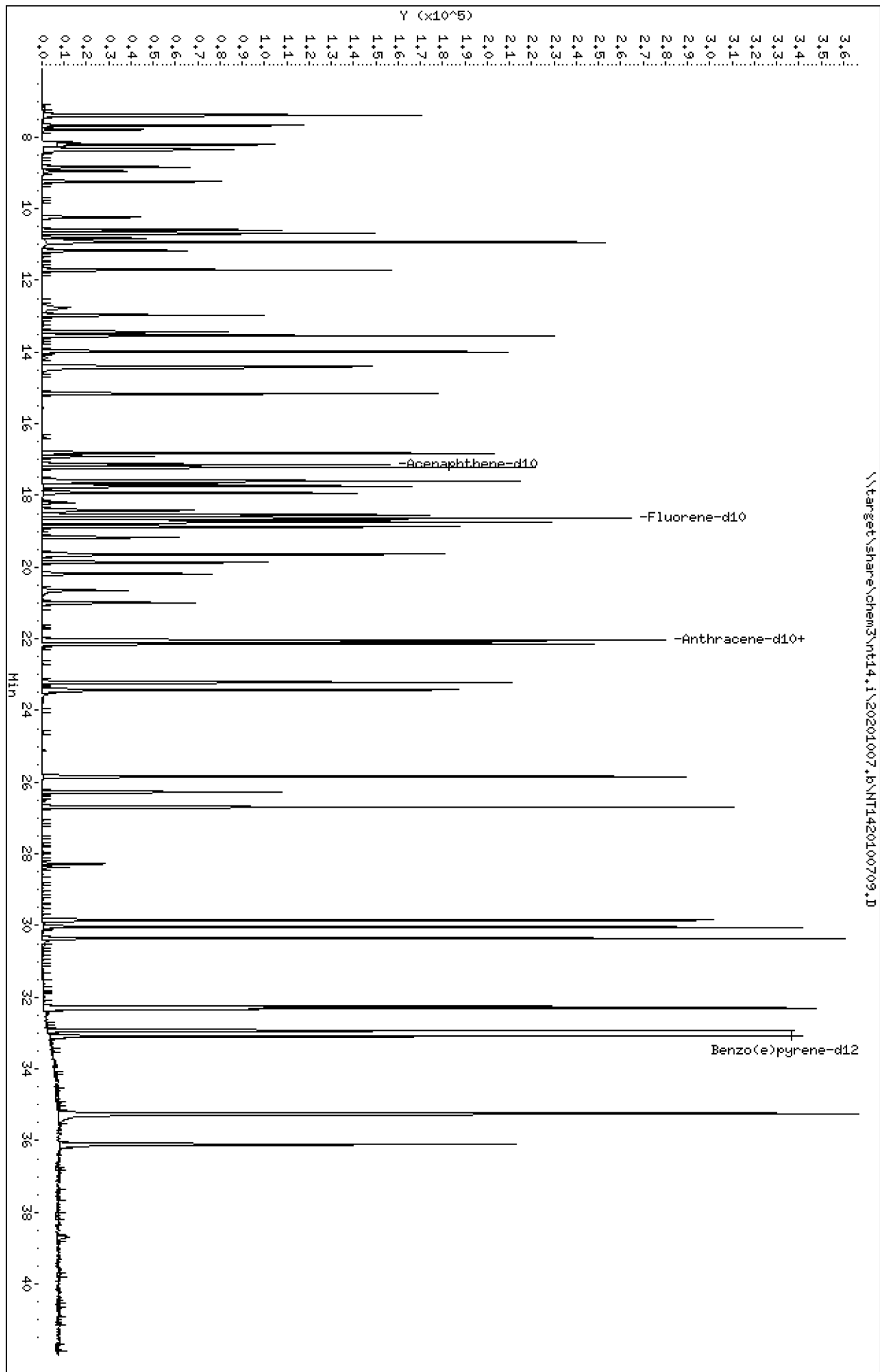
Column phase: Rxi-17S11 MS

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

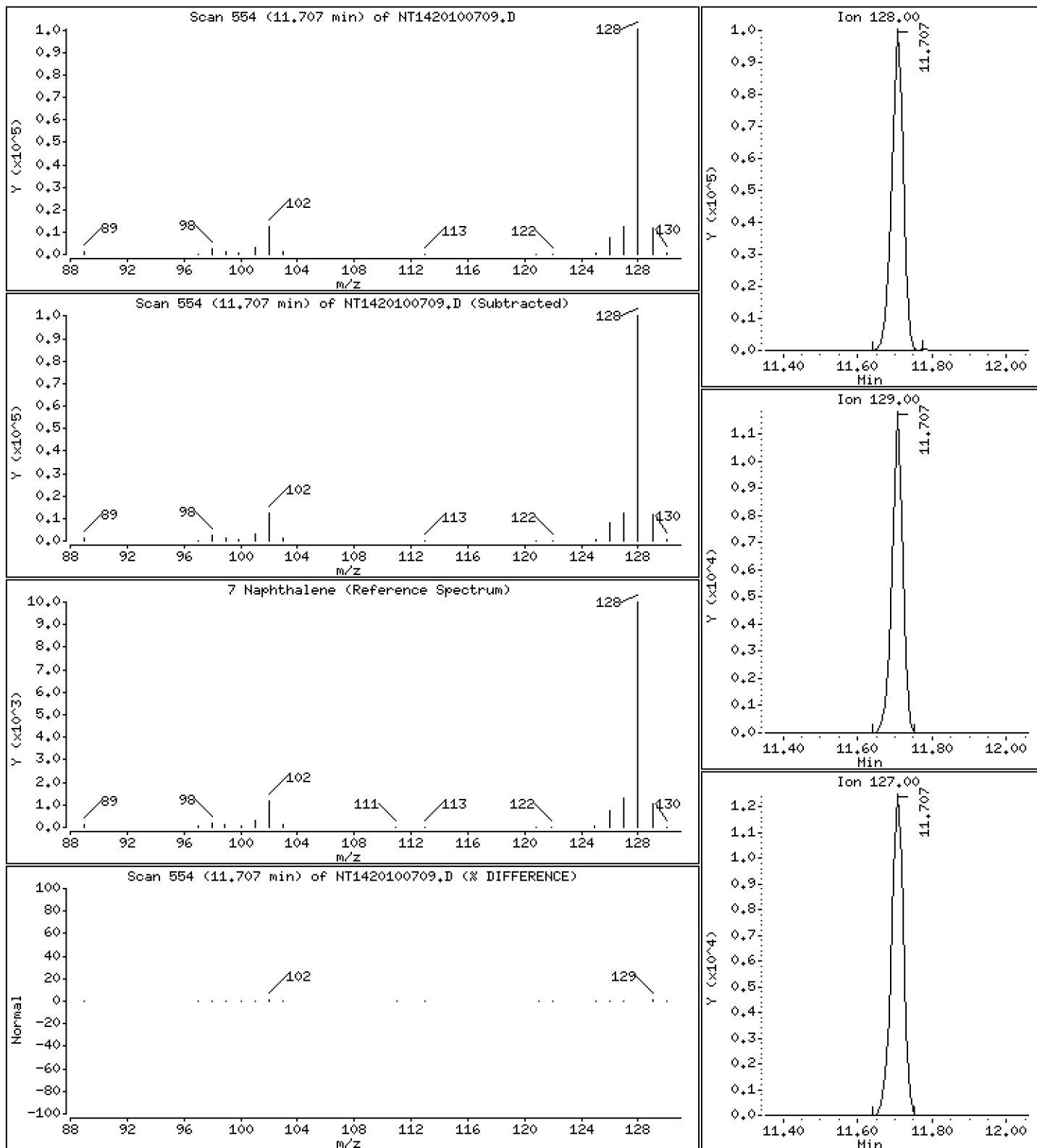
Operator: VTS

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

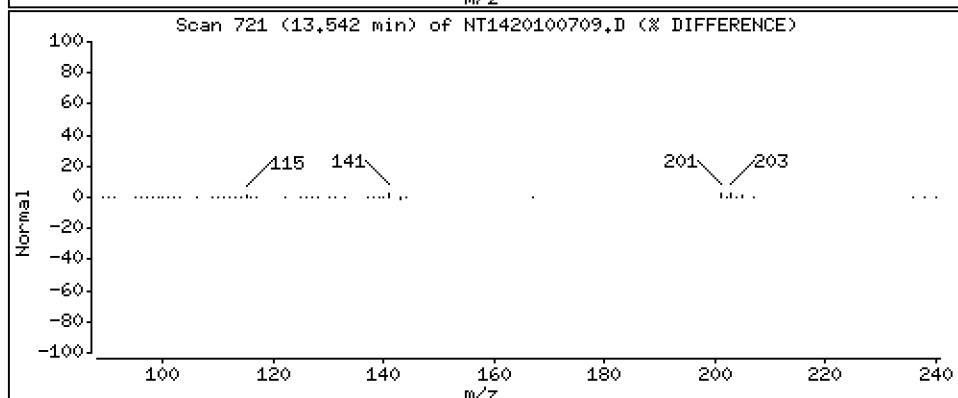
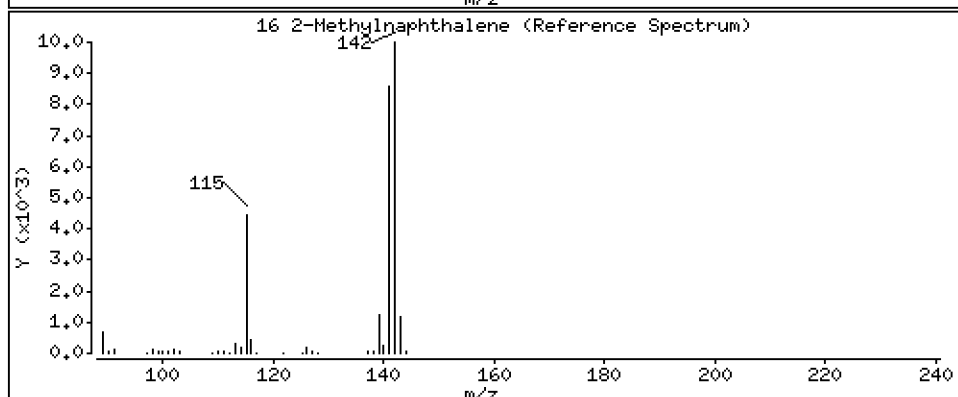
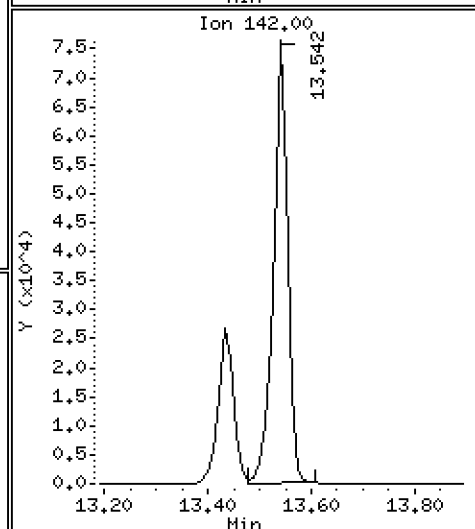
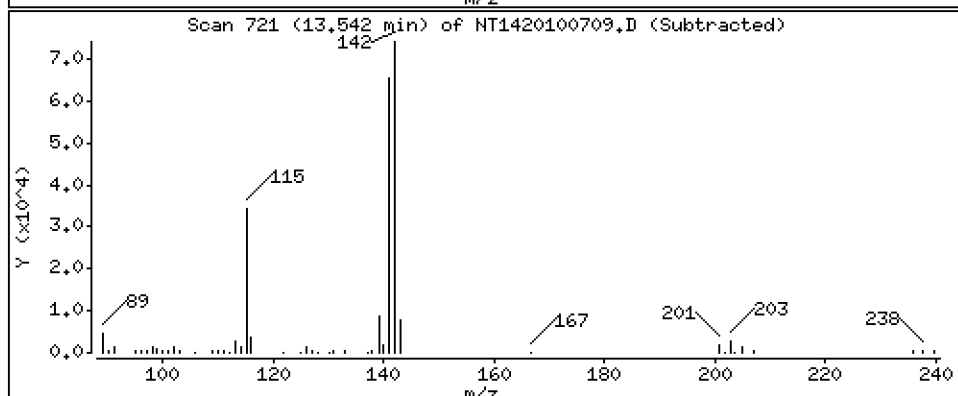
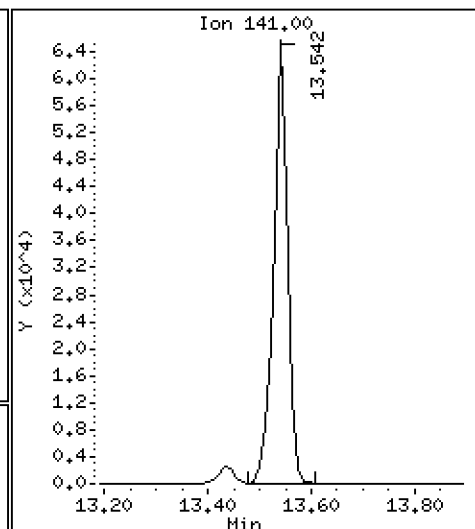
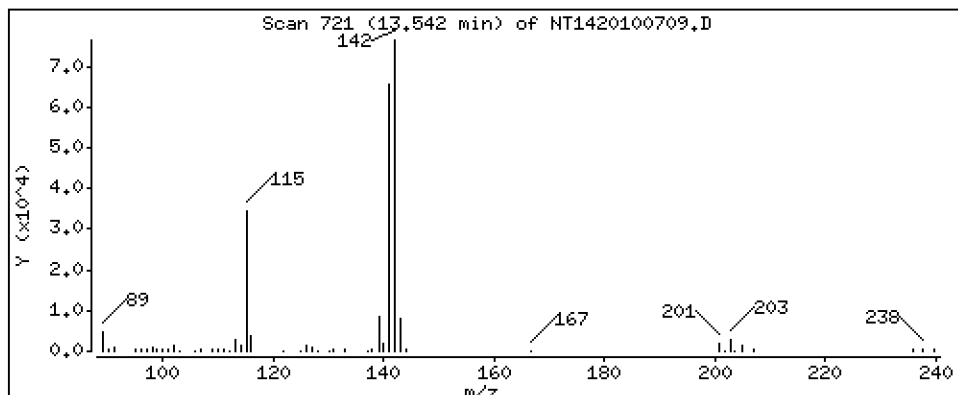
Operator: VTS

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

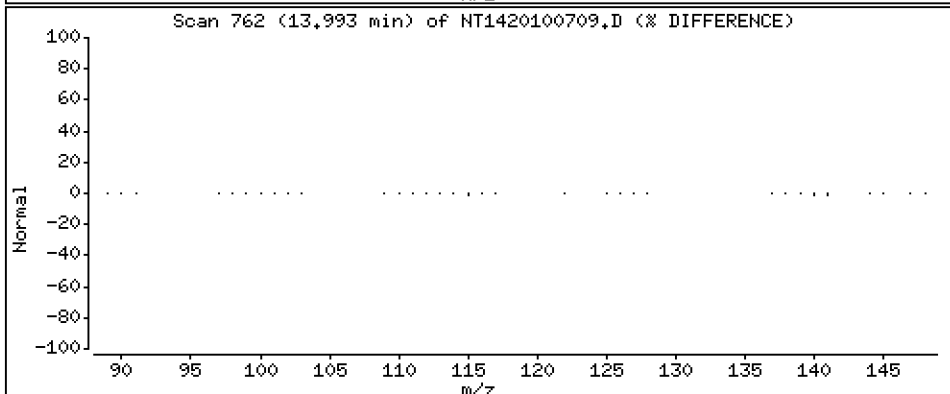
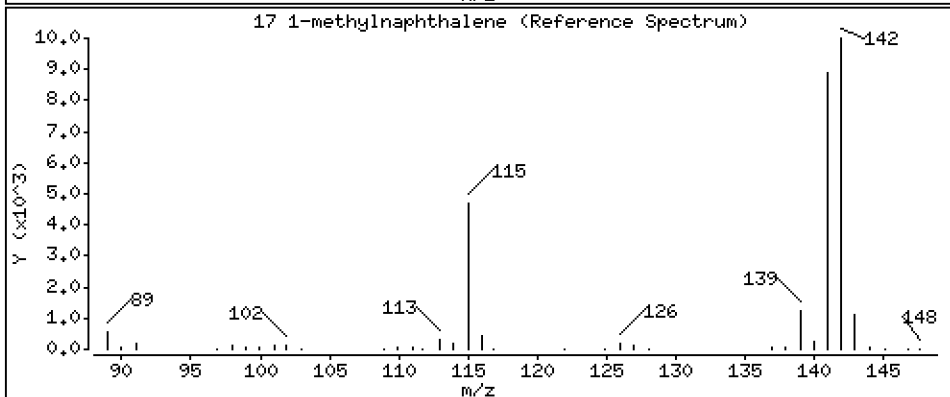
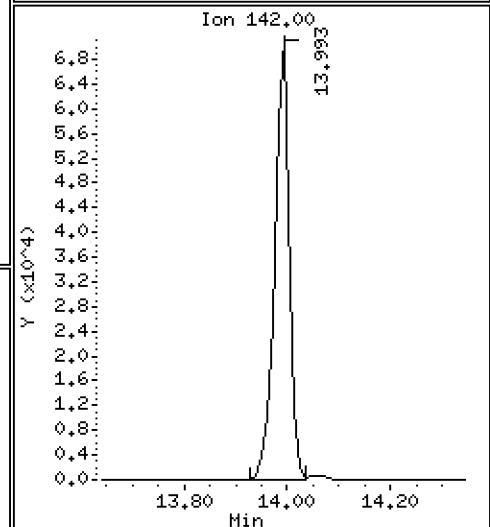
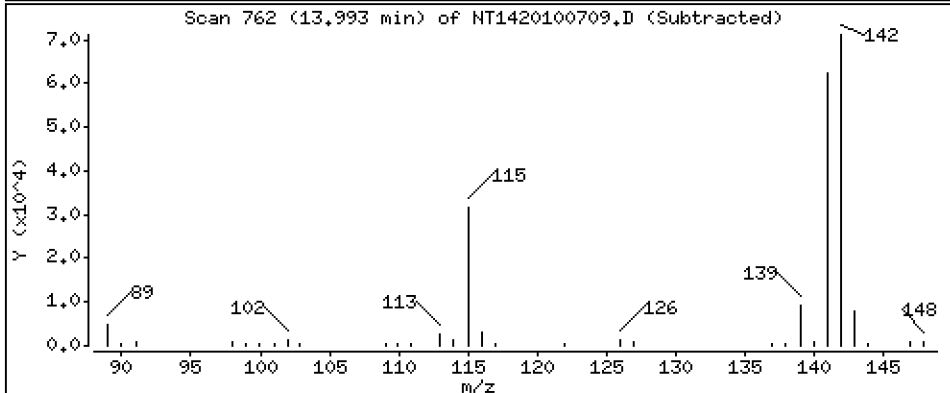
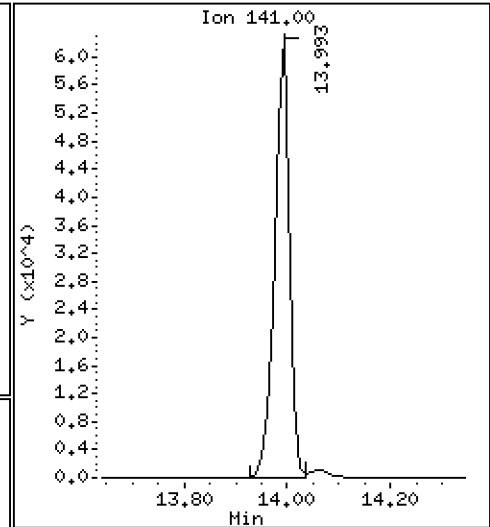
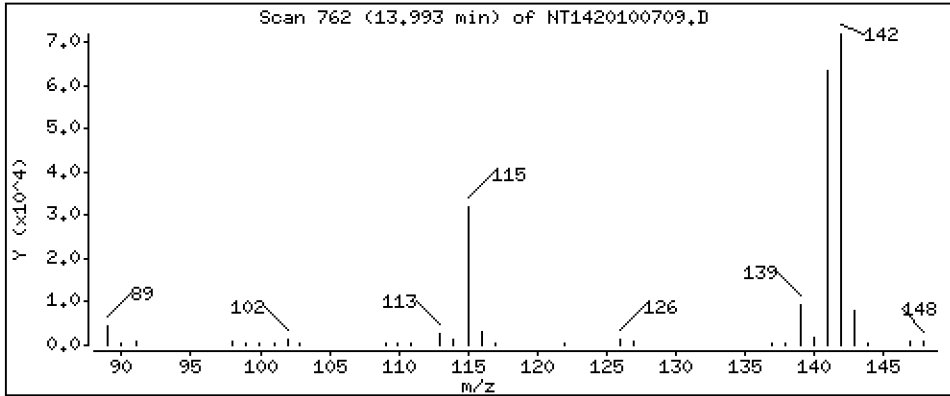
Operator: VTS

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

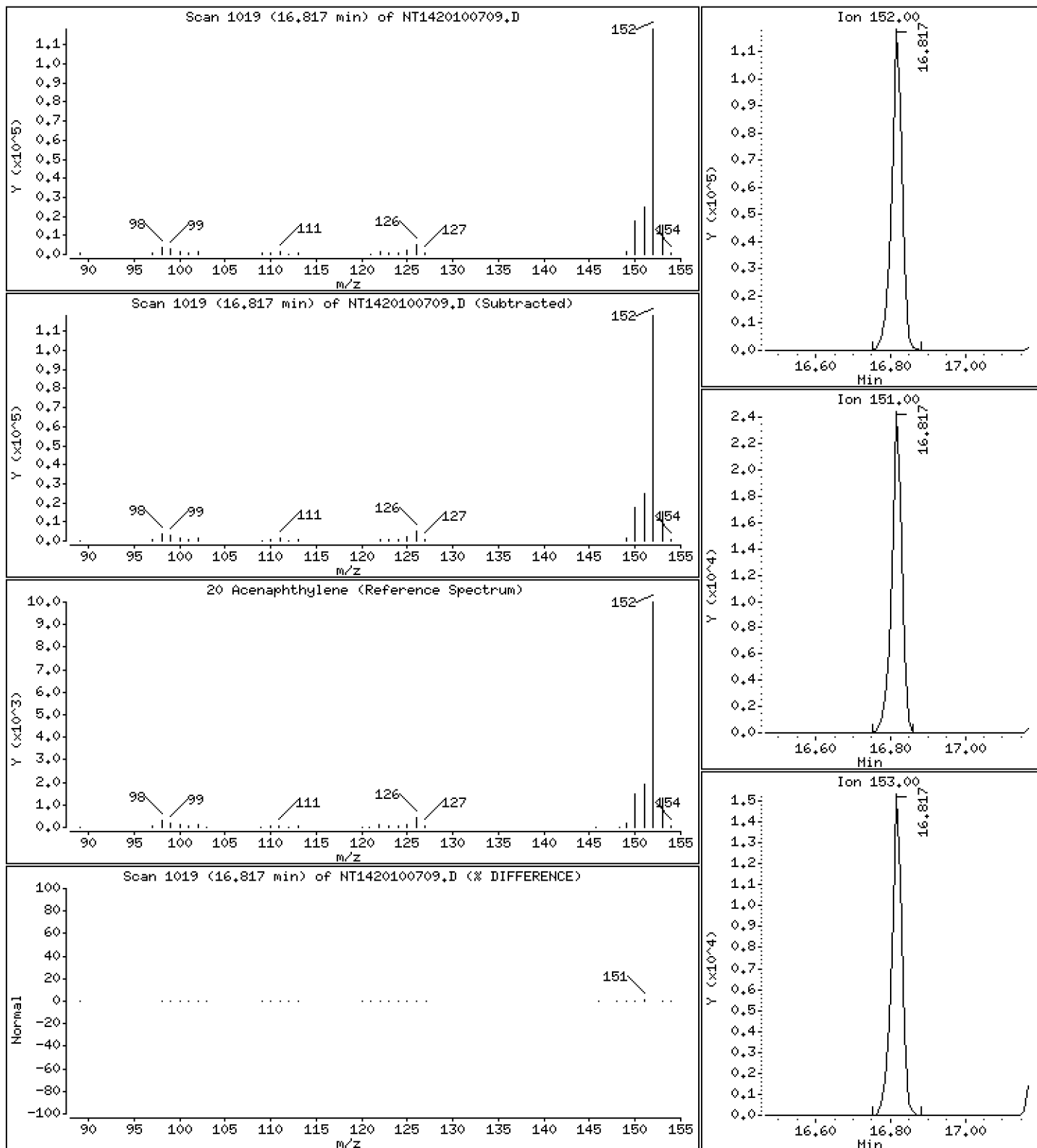
Operator: VTS

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

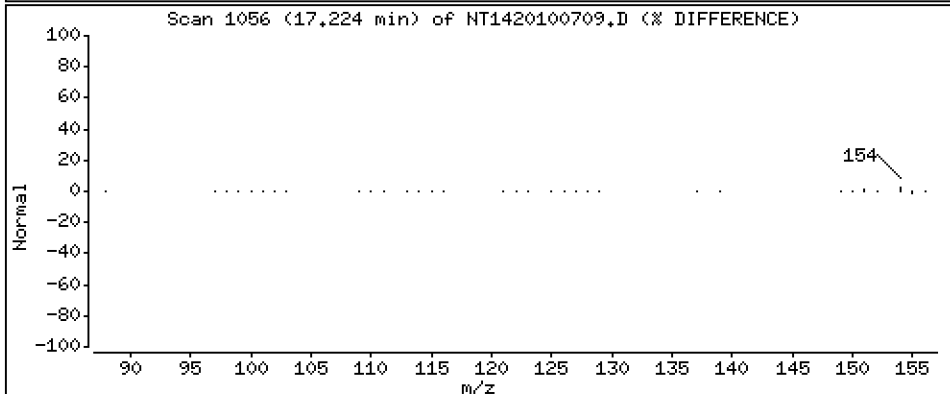
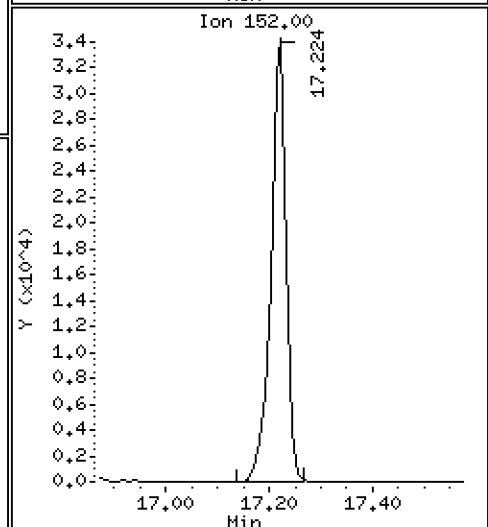
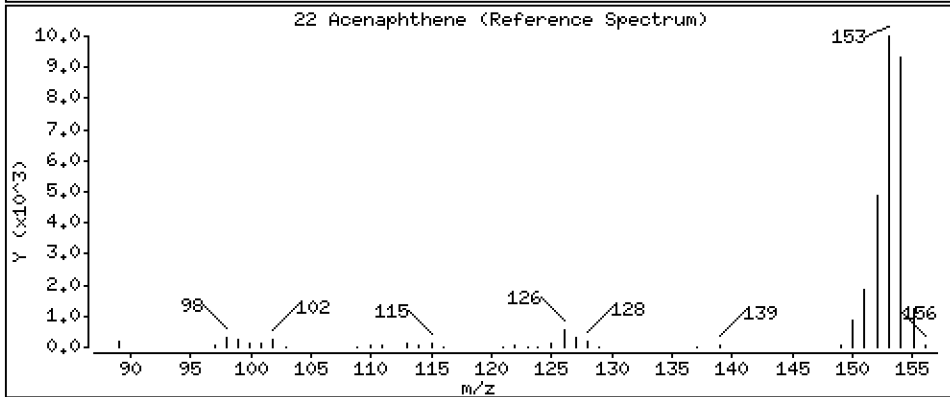
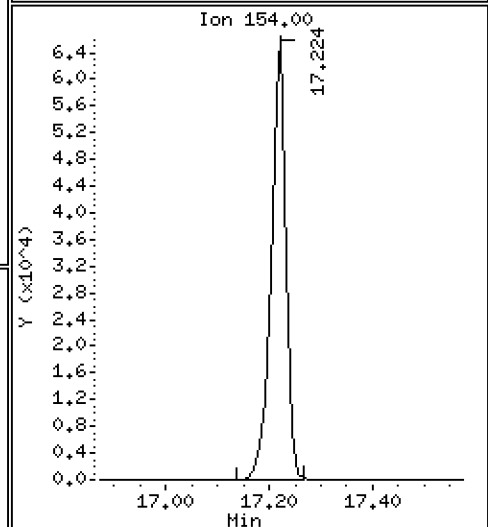
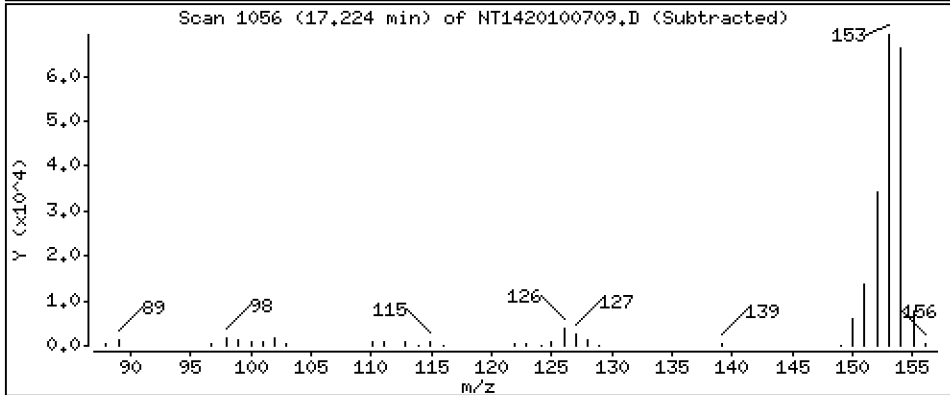
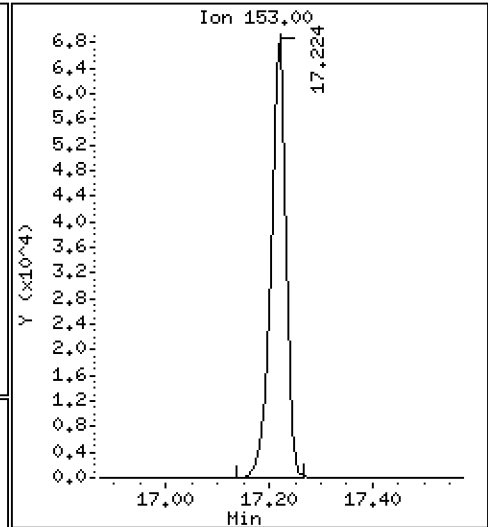
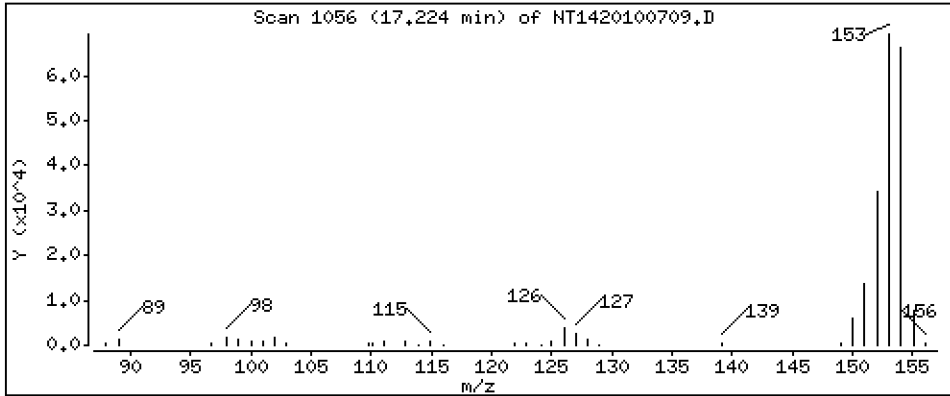
Operator: VTS

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

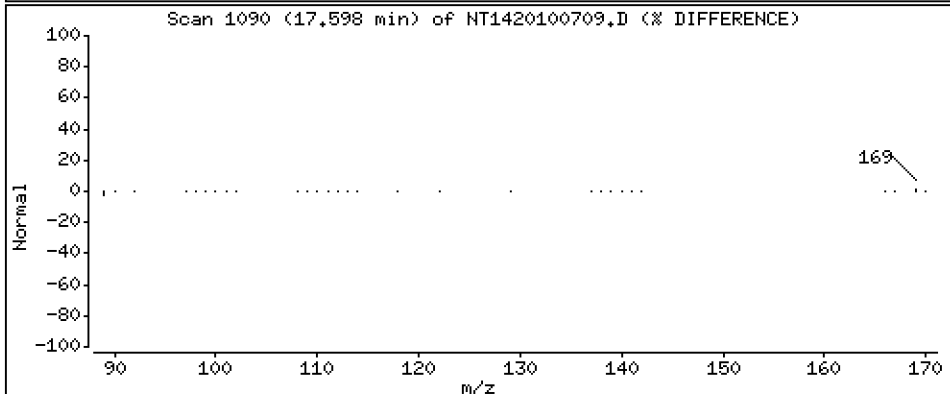
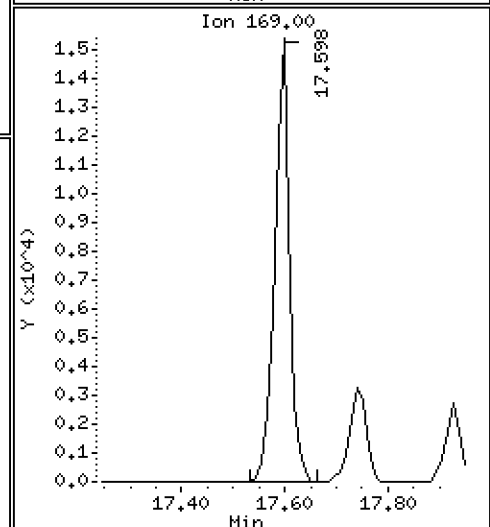
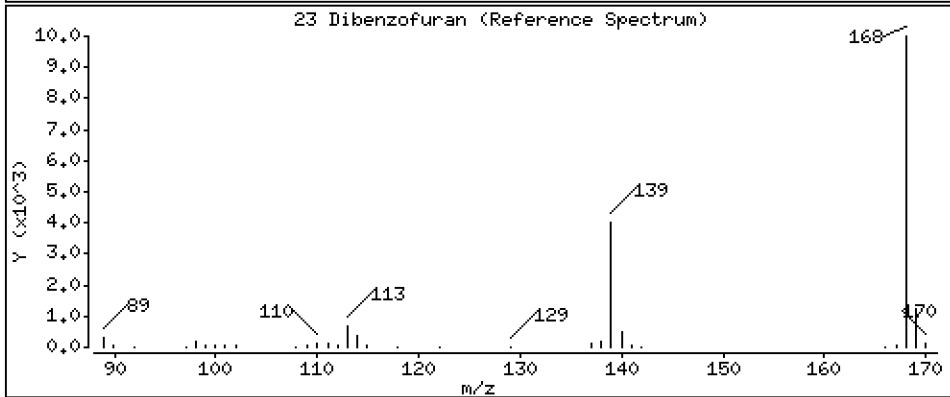
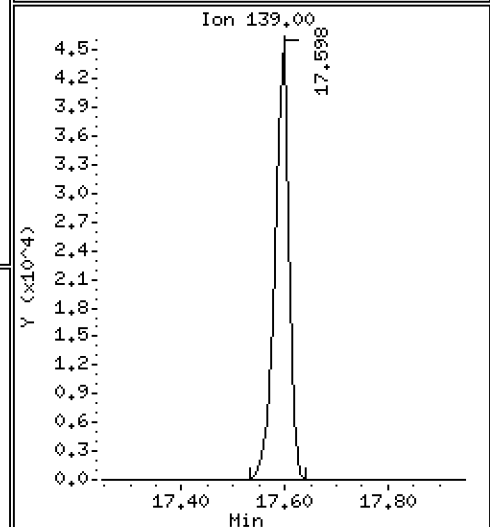
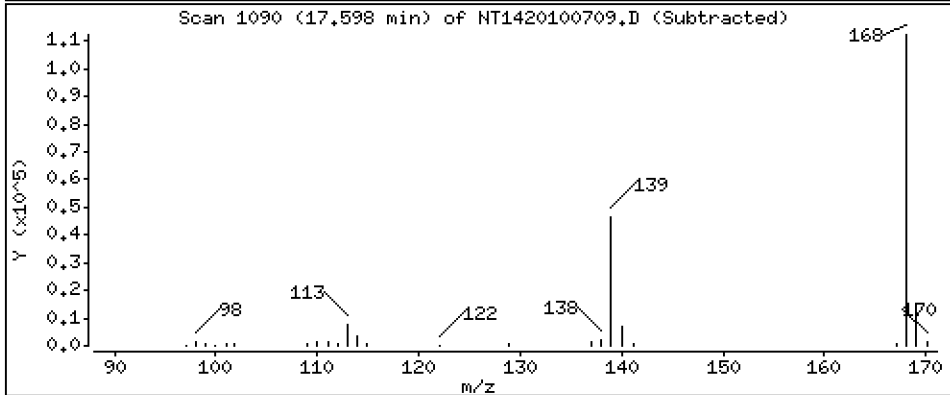
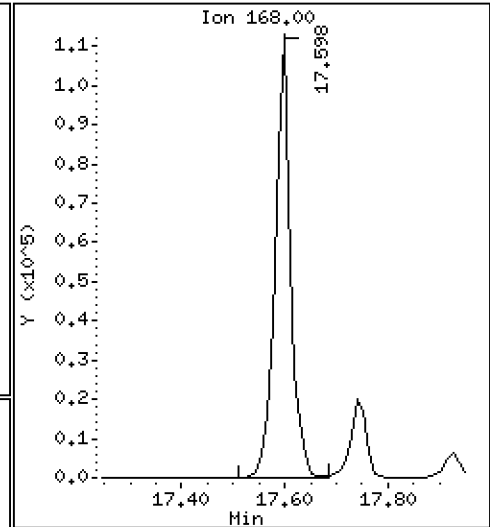
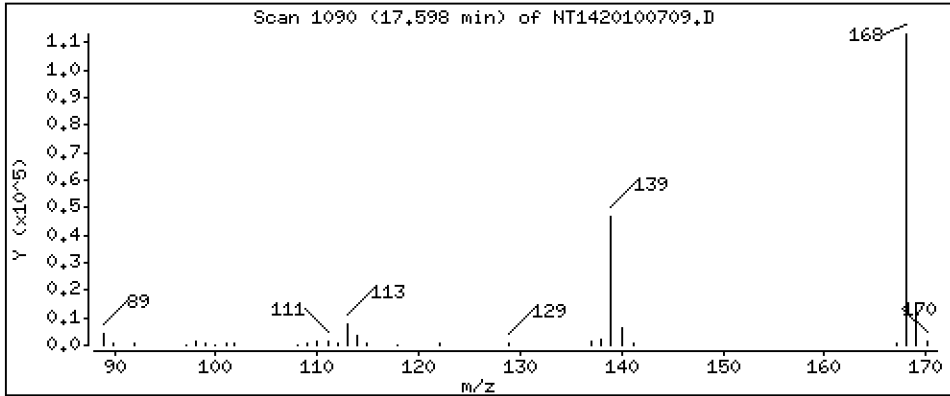
Operator: VTS

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

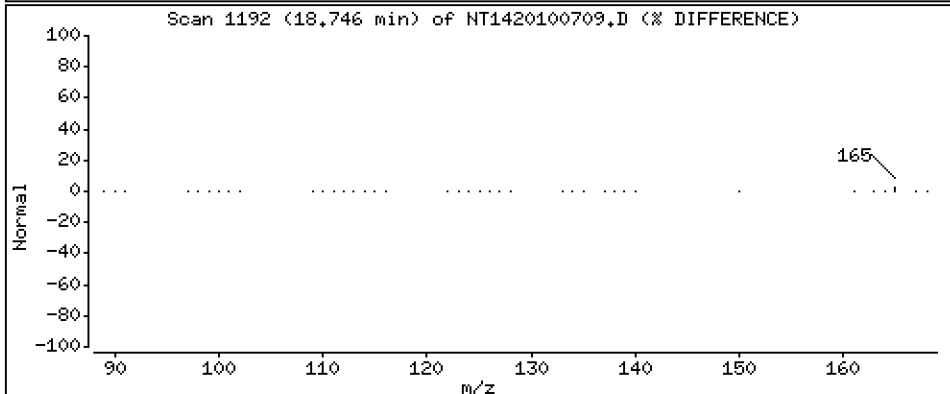
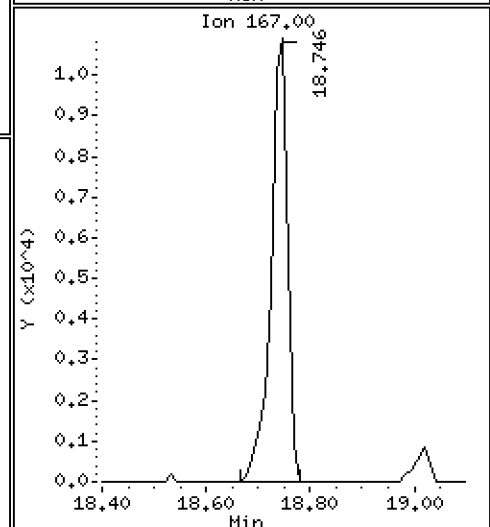
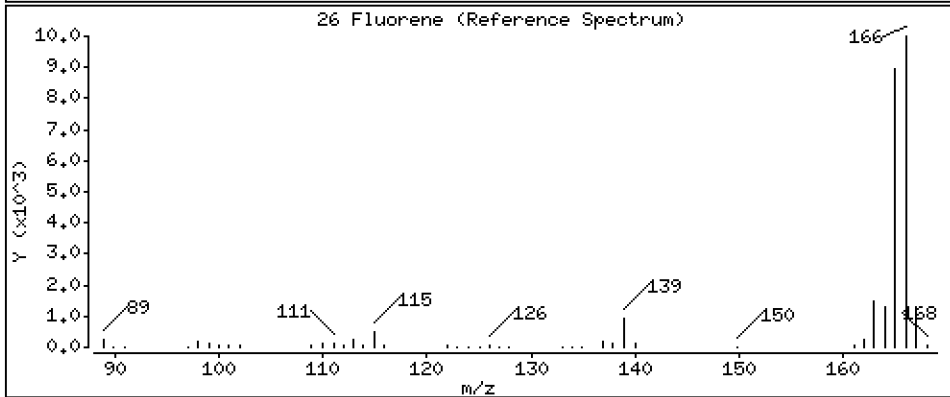
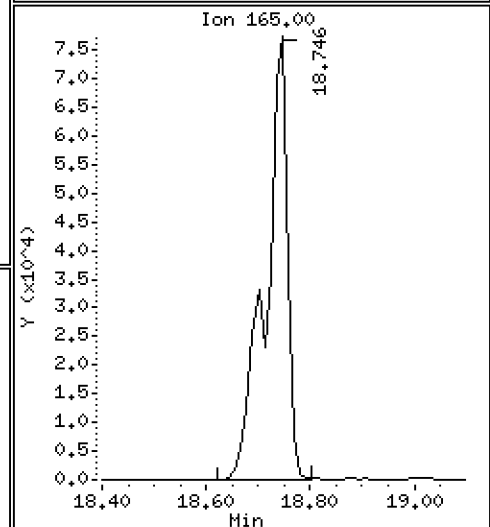
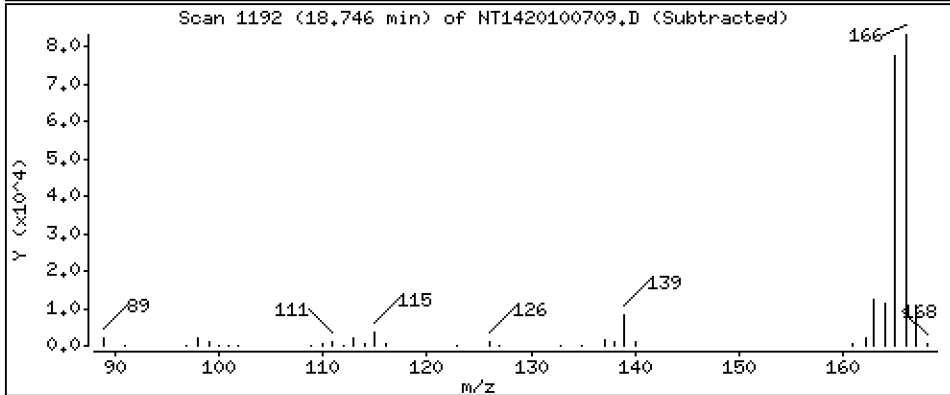
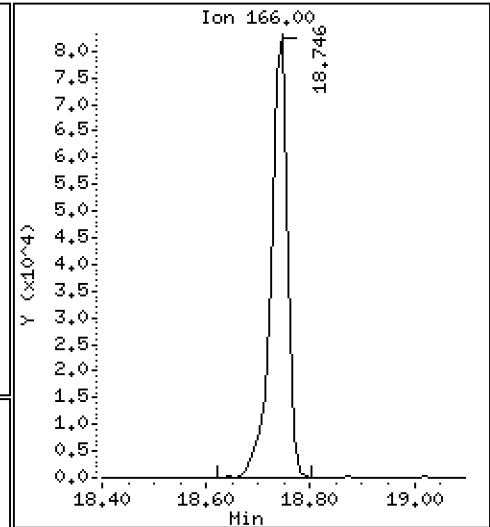
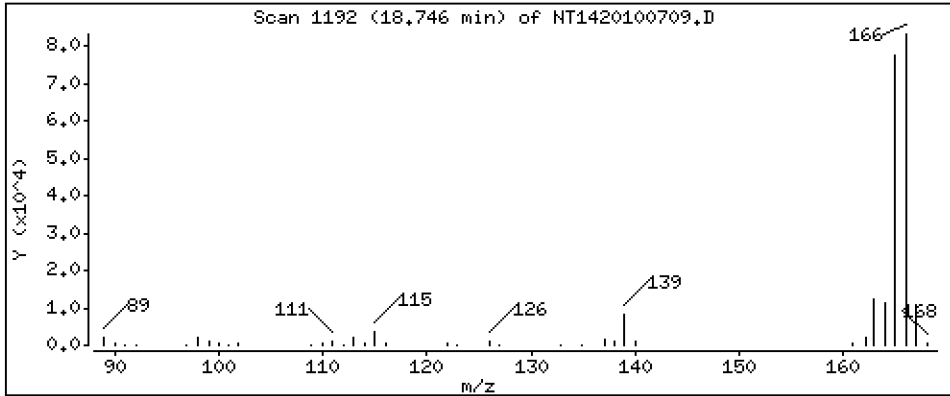
Operator: VTS

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

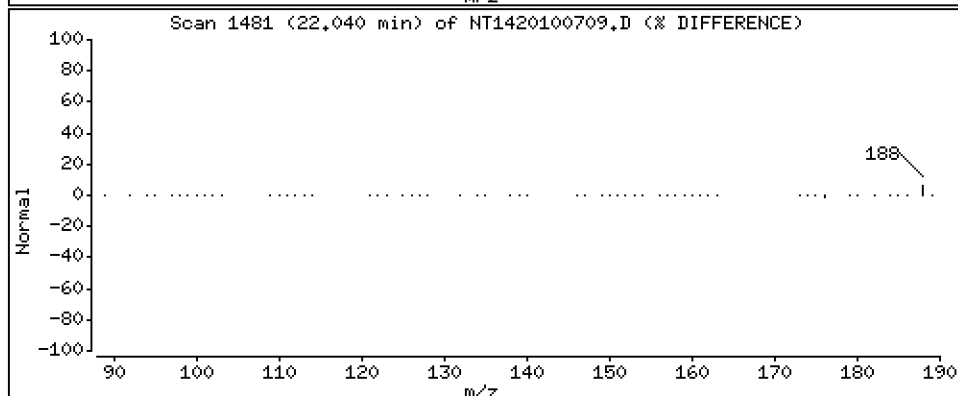
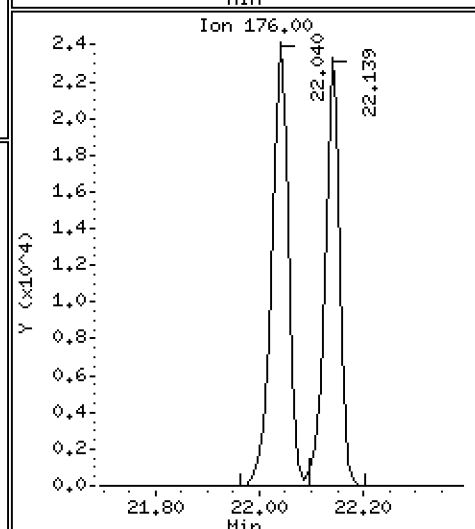
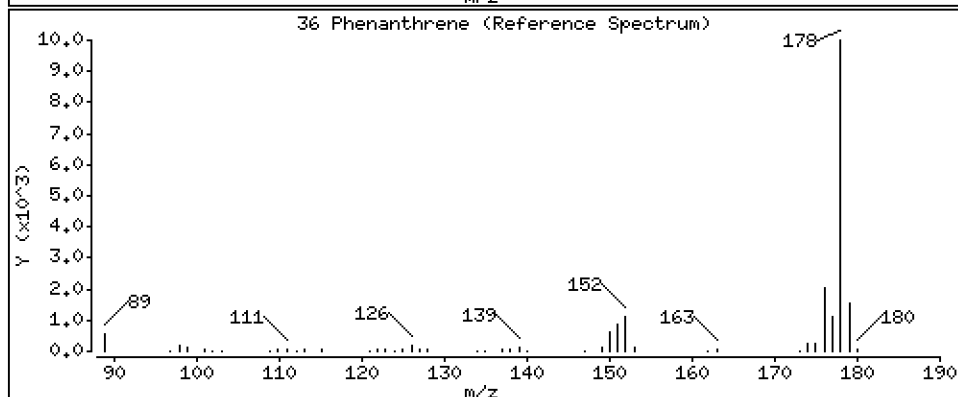
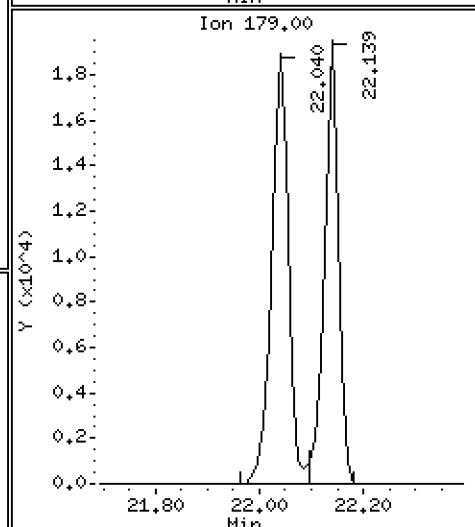
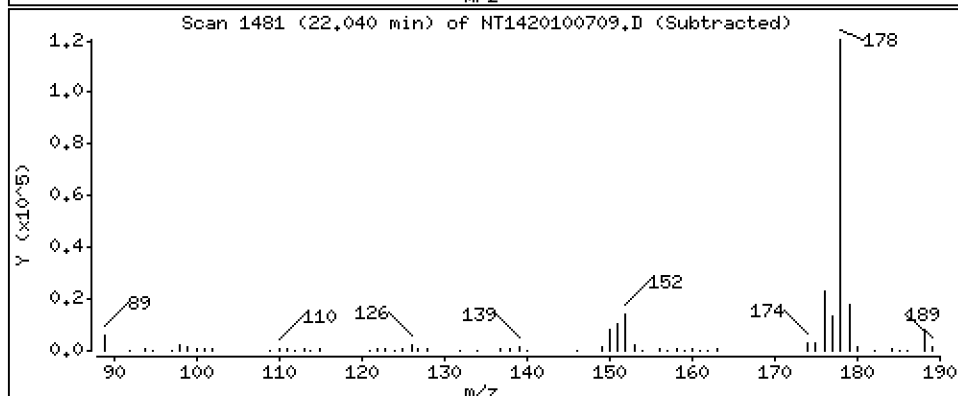
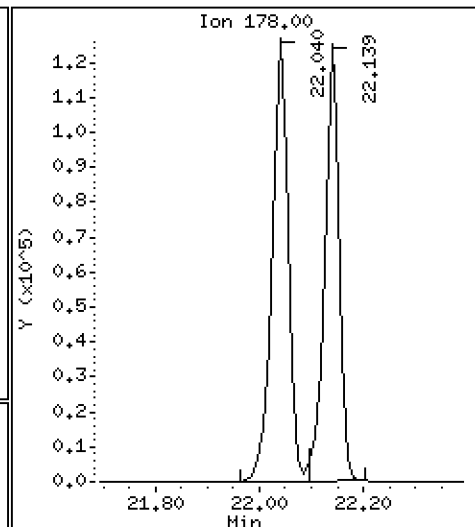
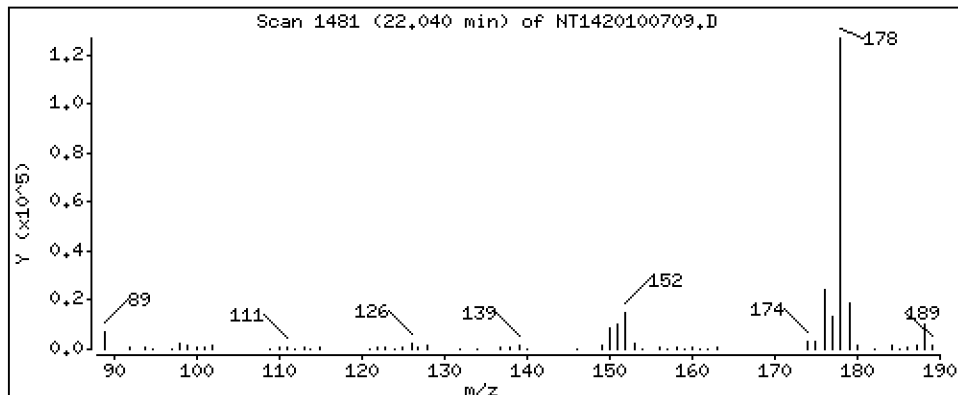
Operator: VTS

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

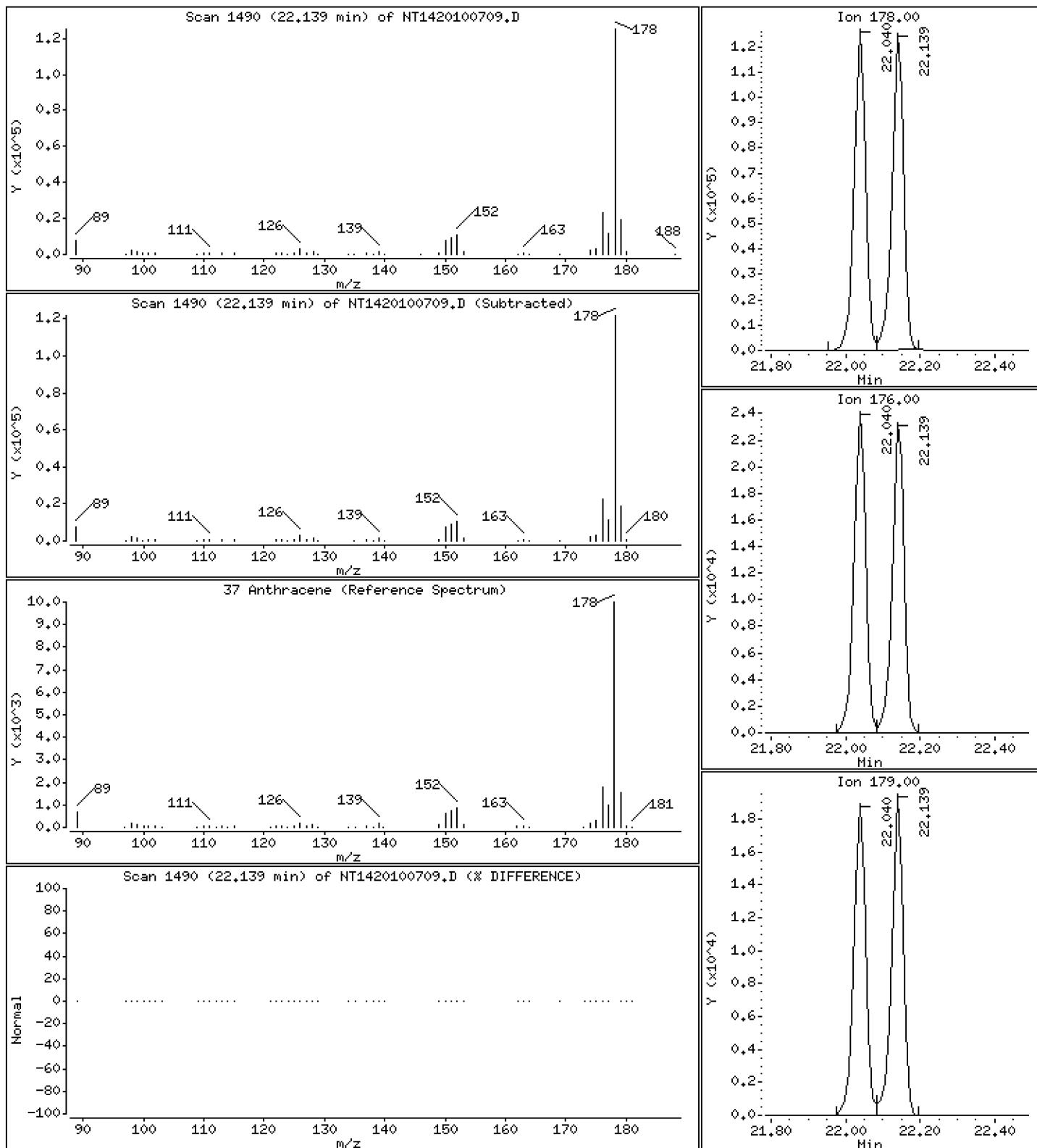
Operator: VTS

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

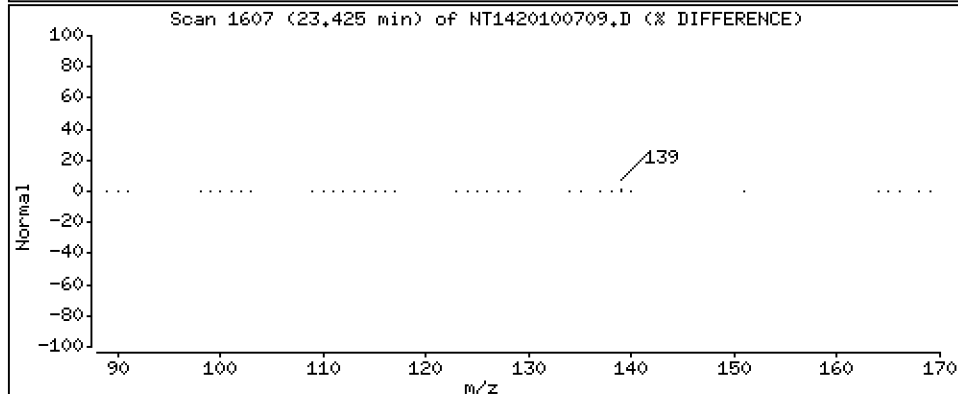
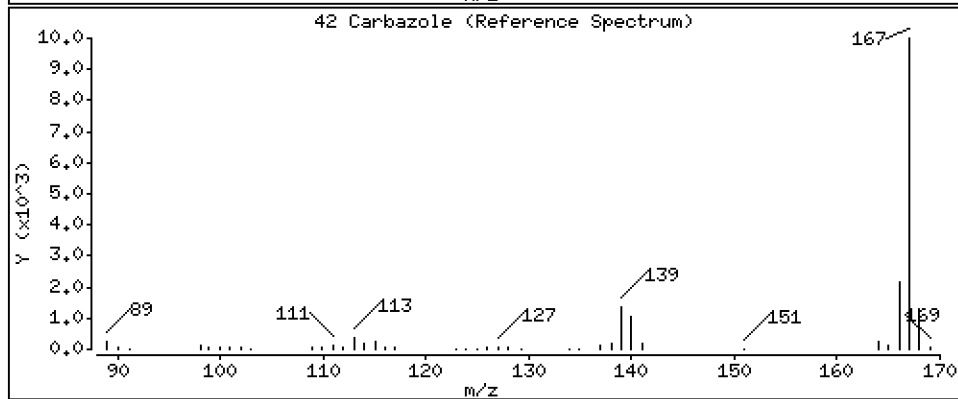
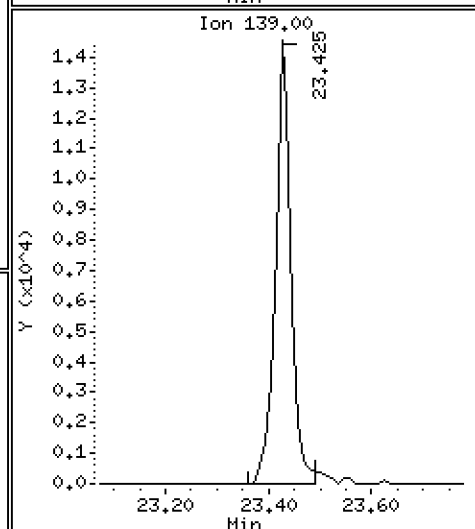
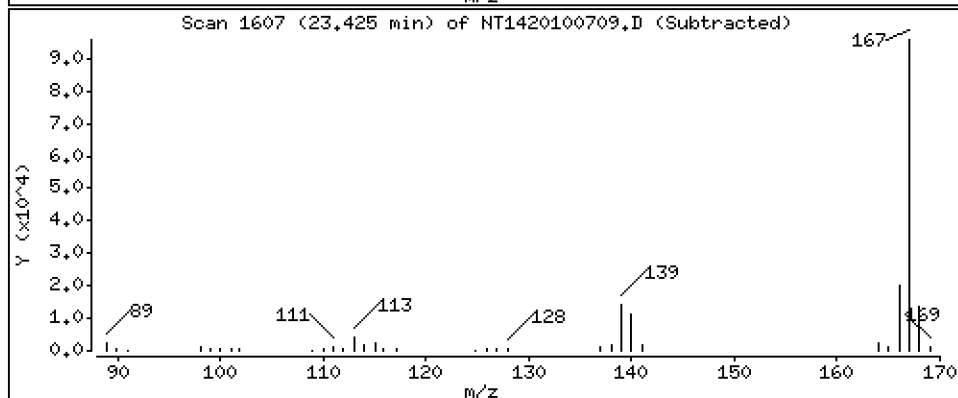
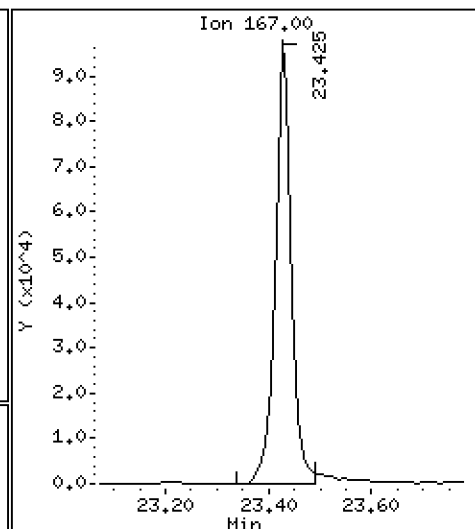
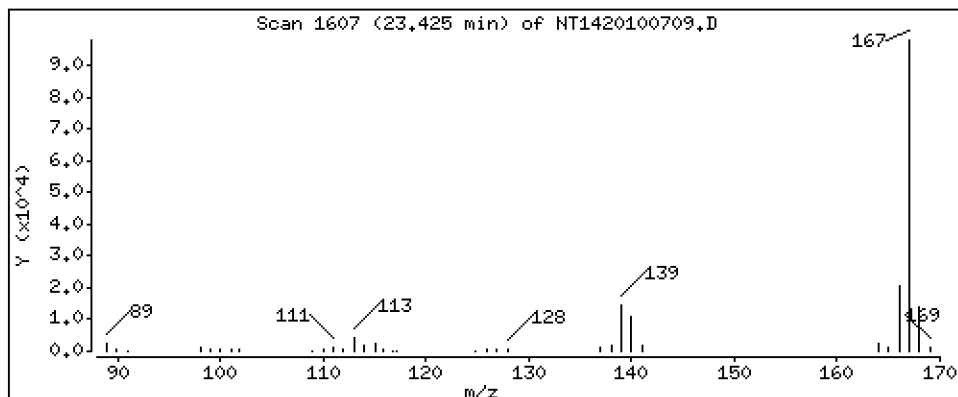
Operator: VTS

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

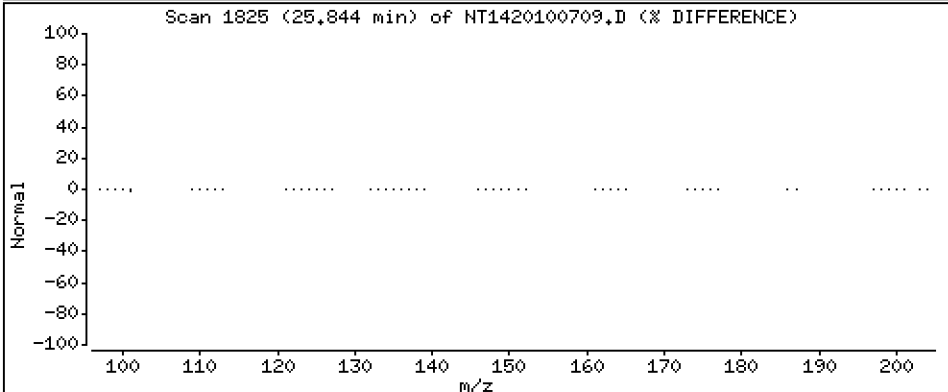
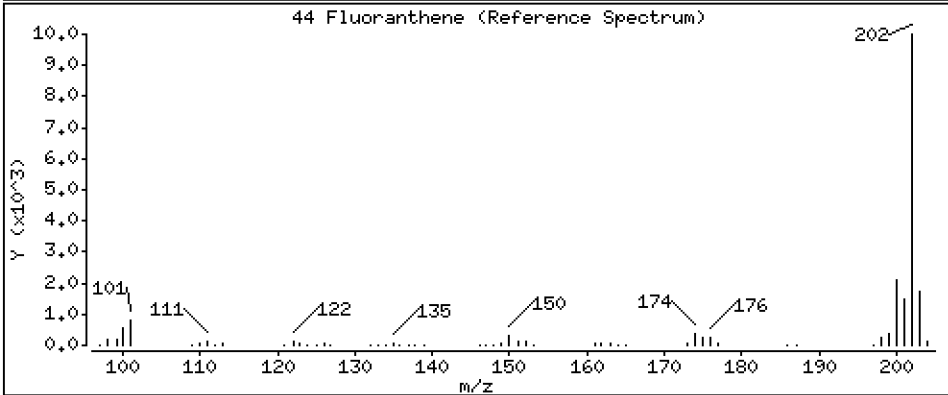
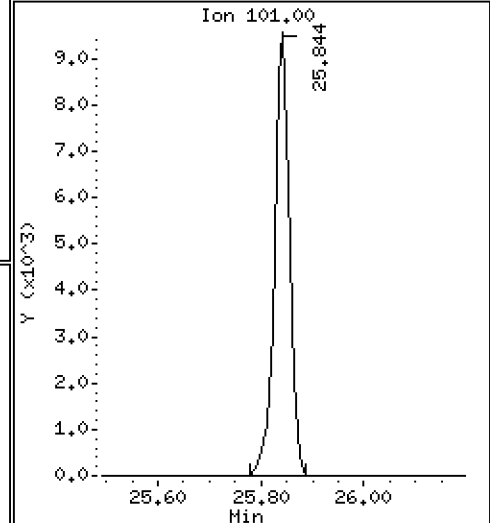
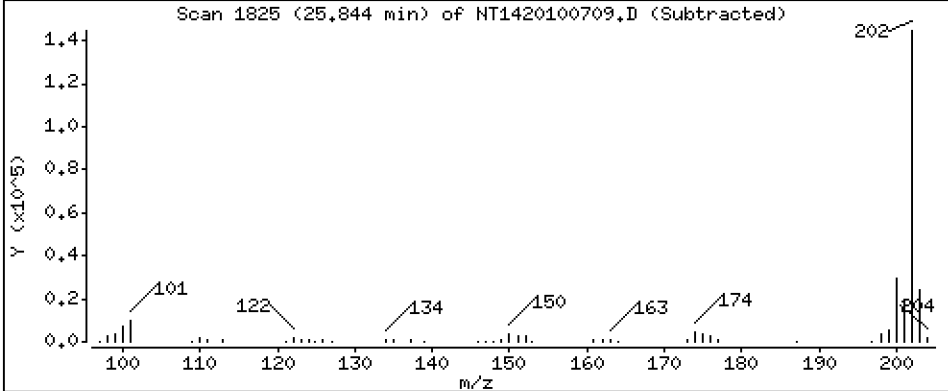
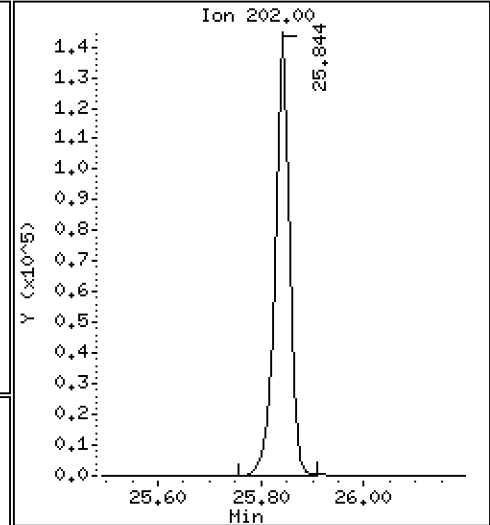
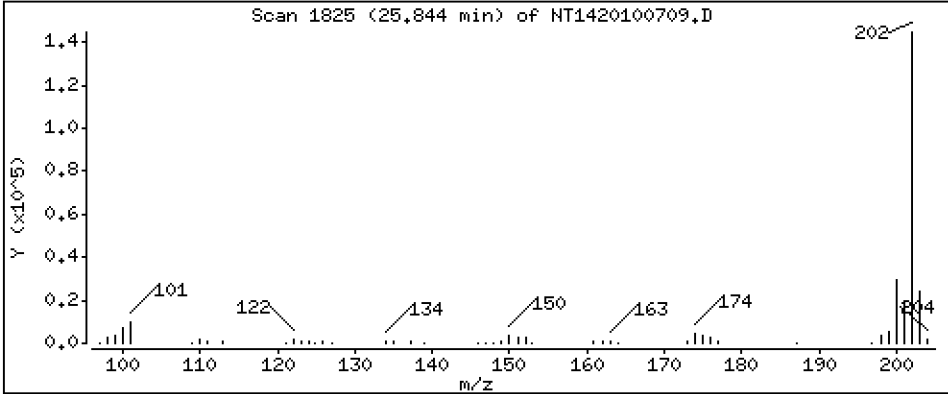
Operator: VTS

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

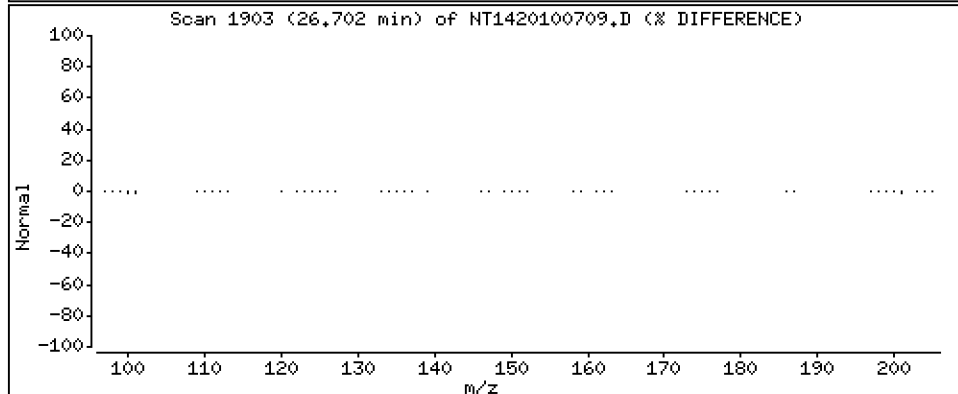
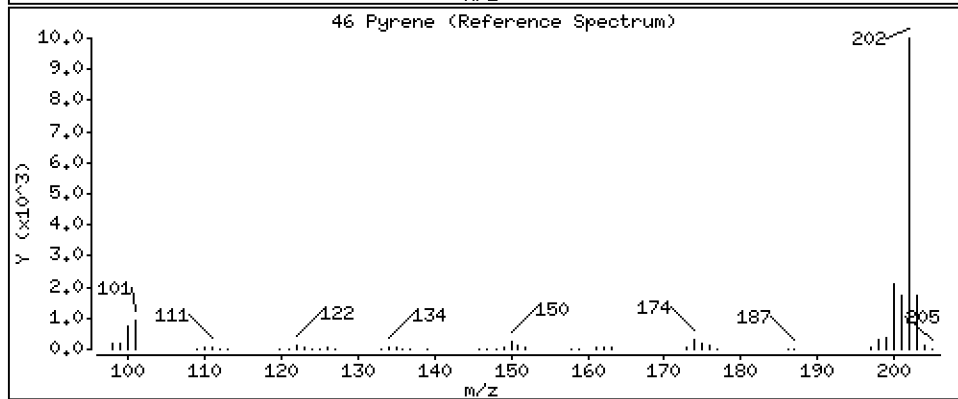
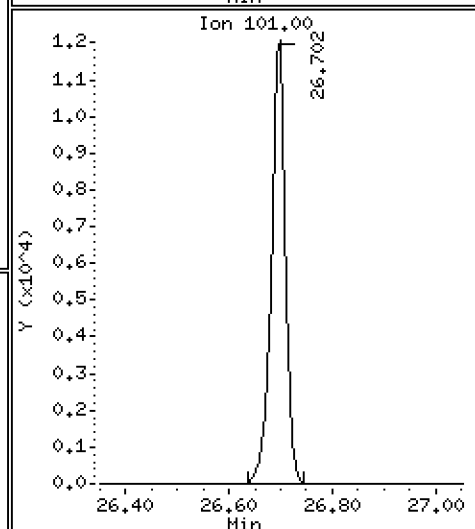
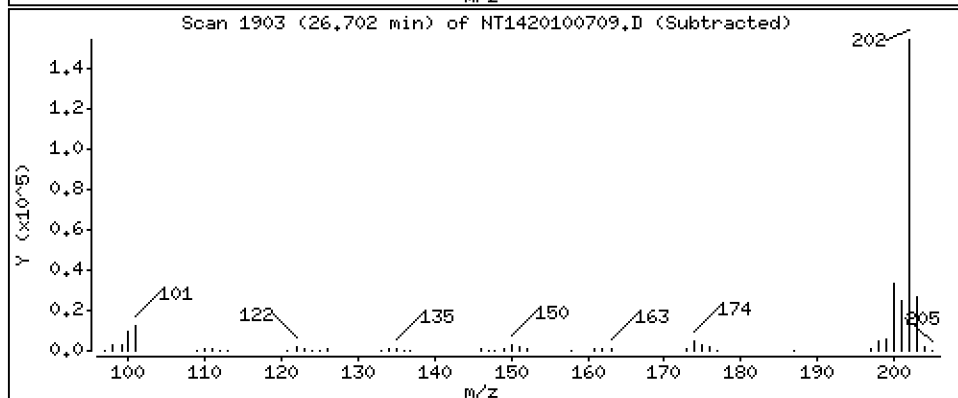
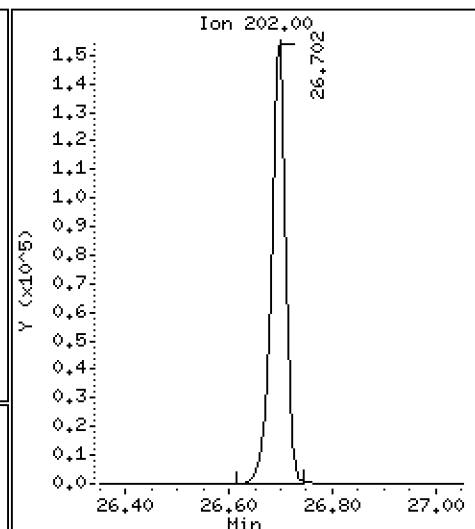
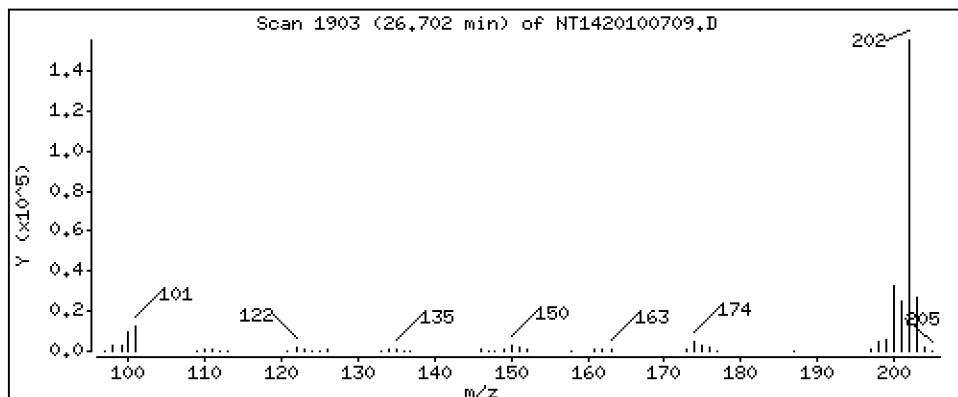
Operator: VTS

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

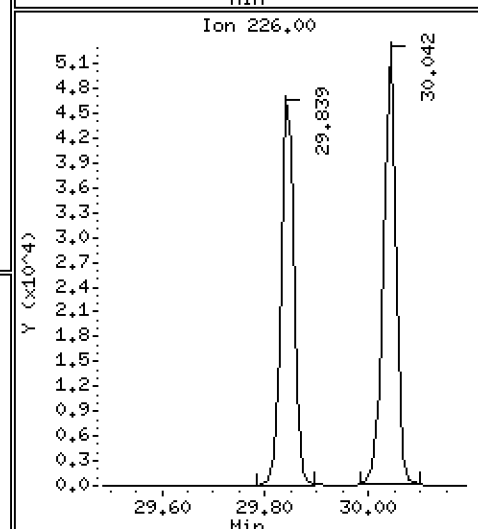
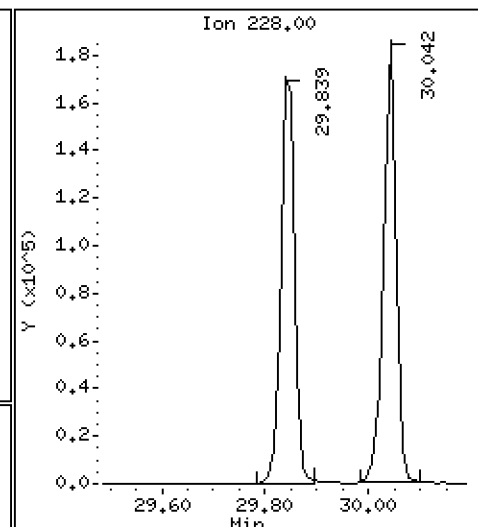
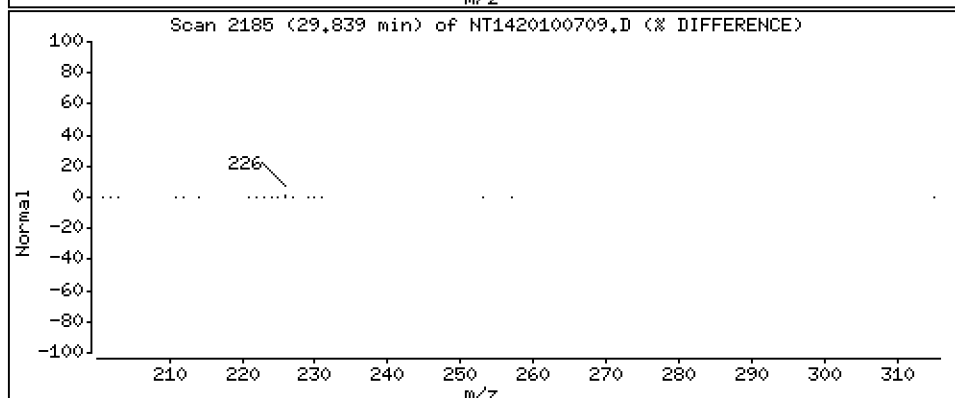
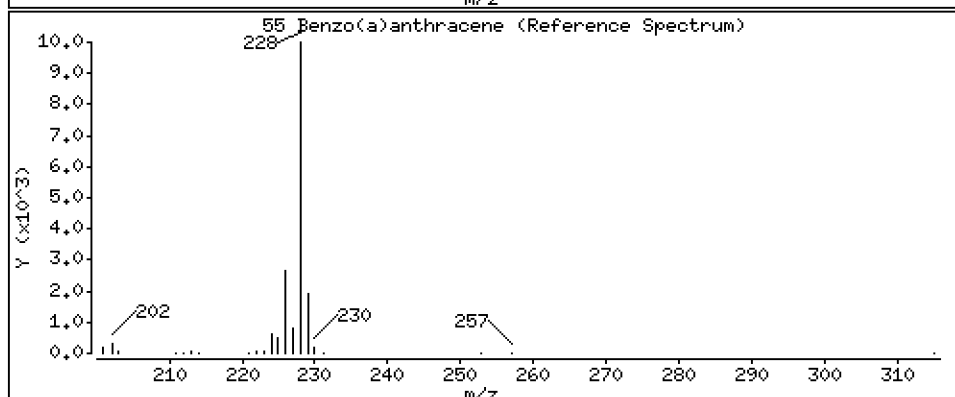
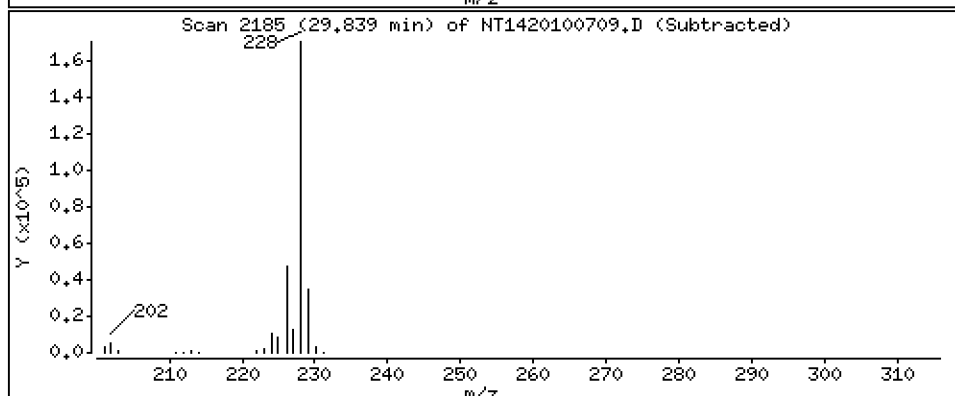
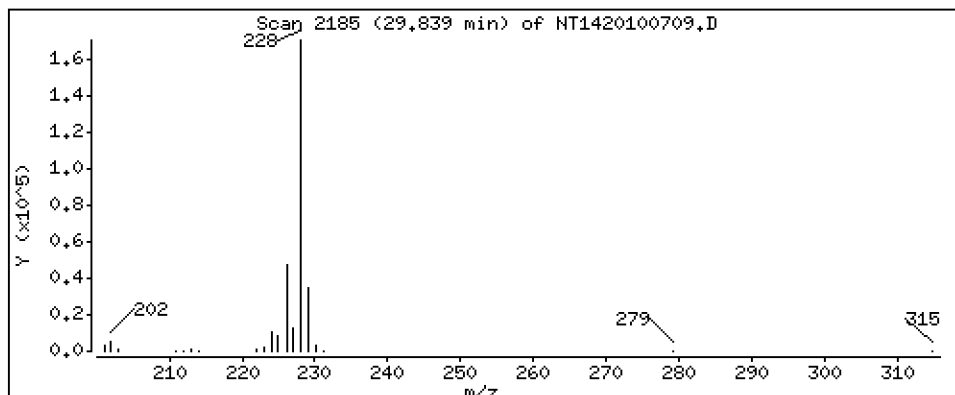
Operator: VTS

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

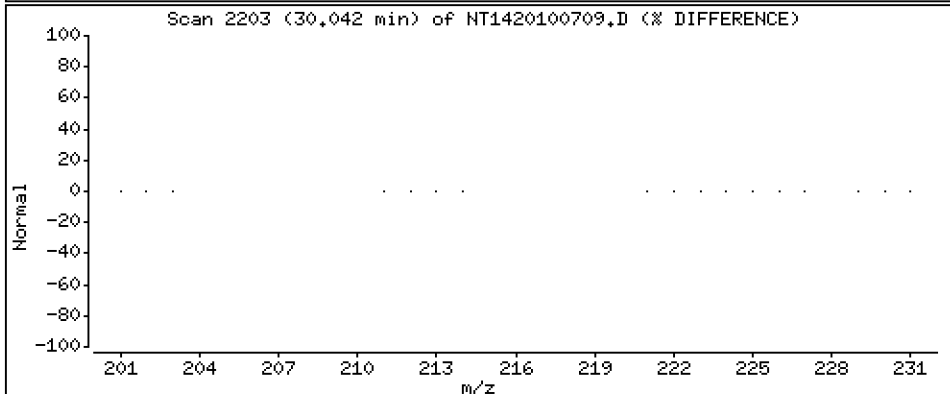
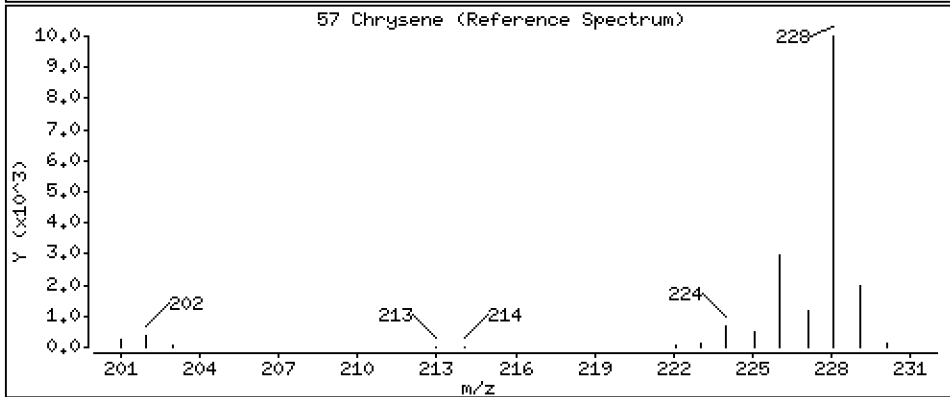
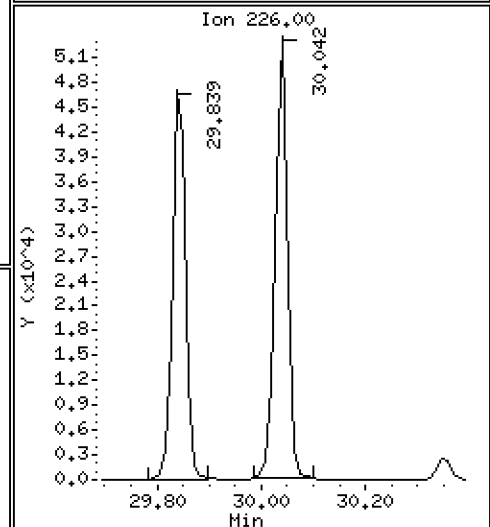
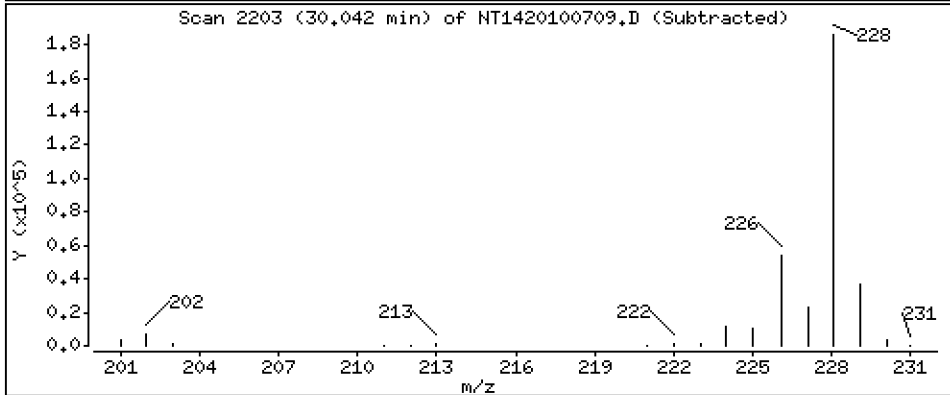
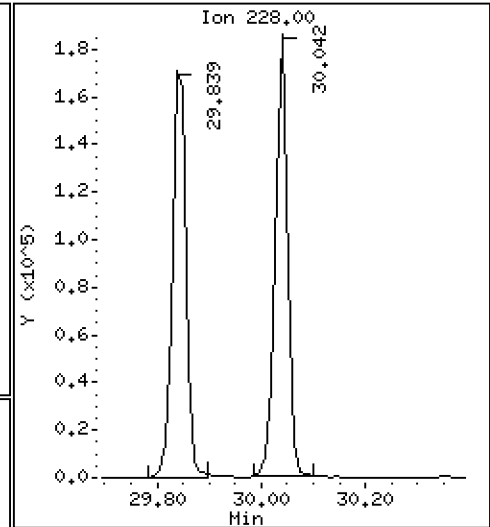
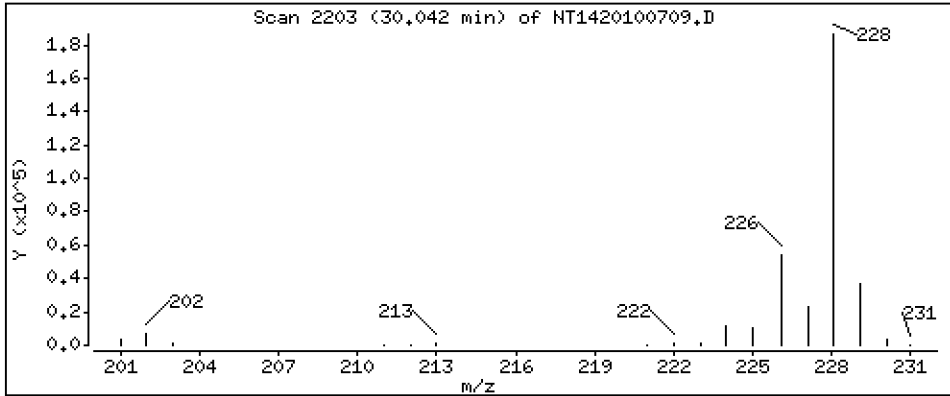
Operator: VTS

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

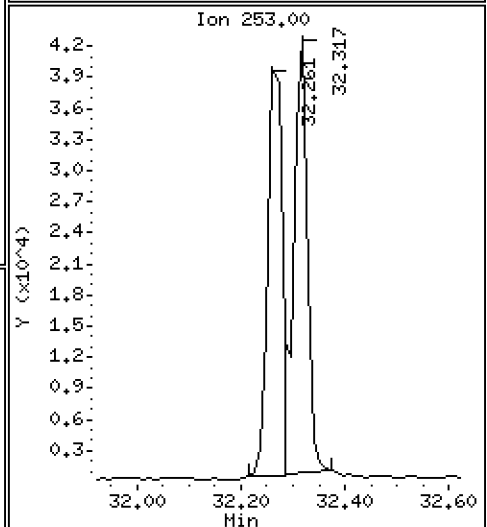
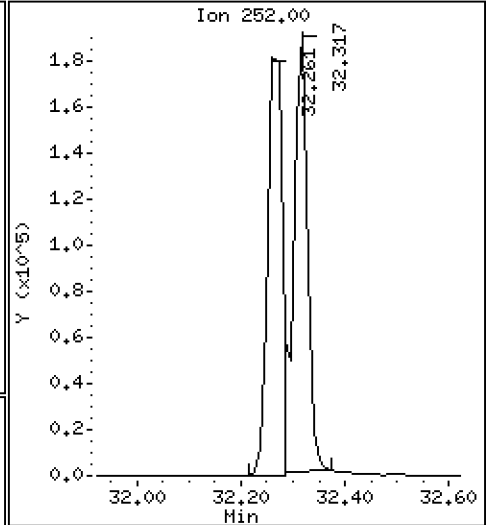
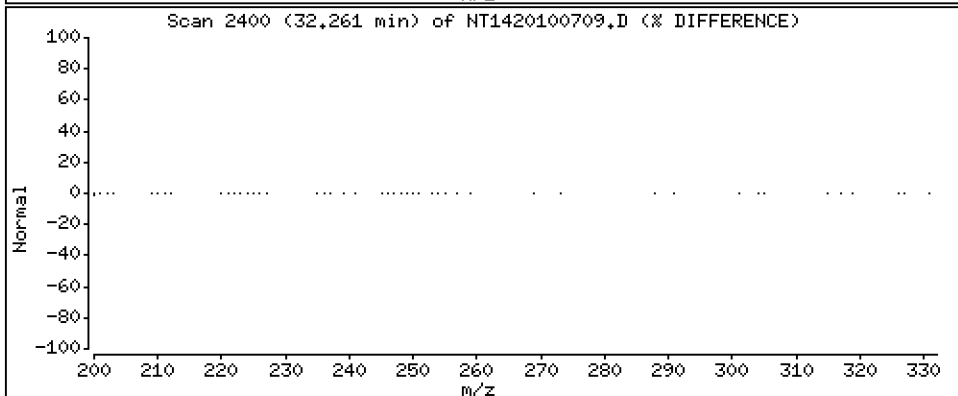
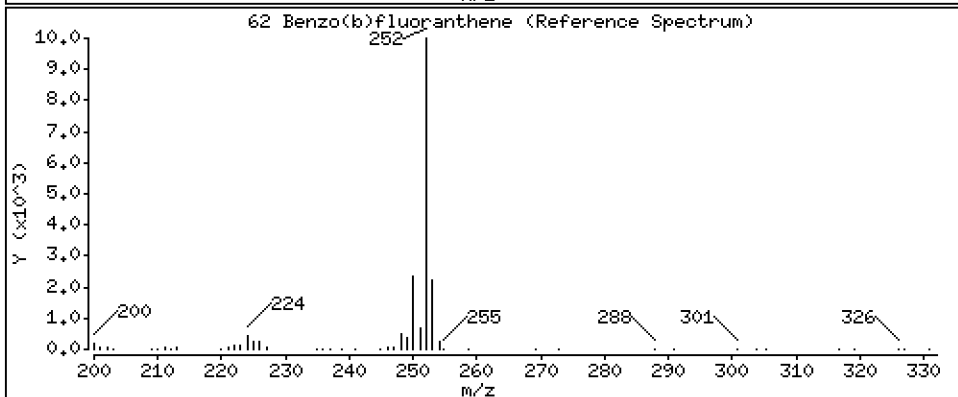
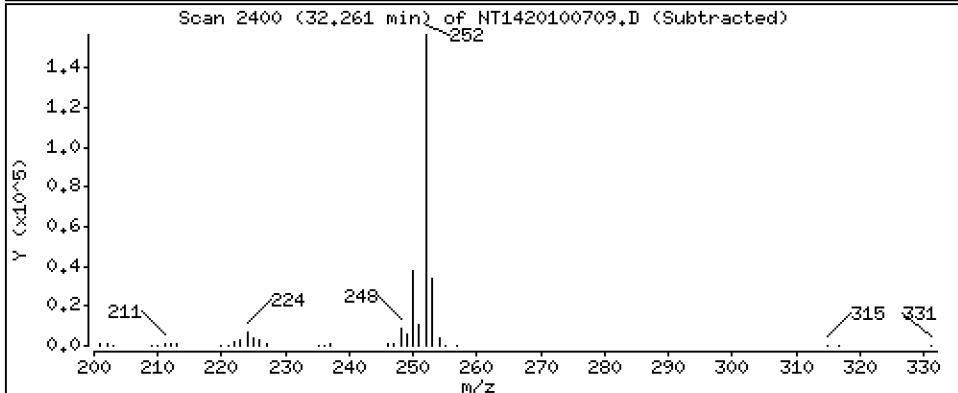
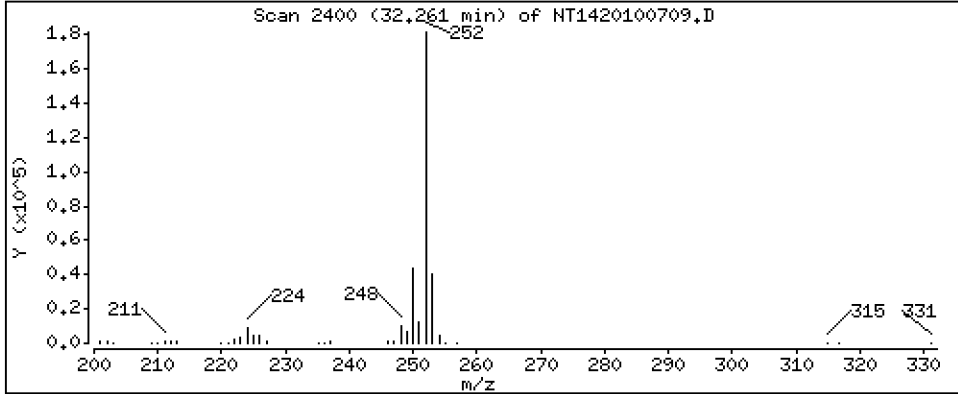
Operator: VTS

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

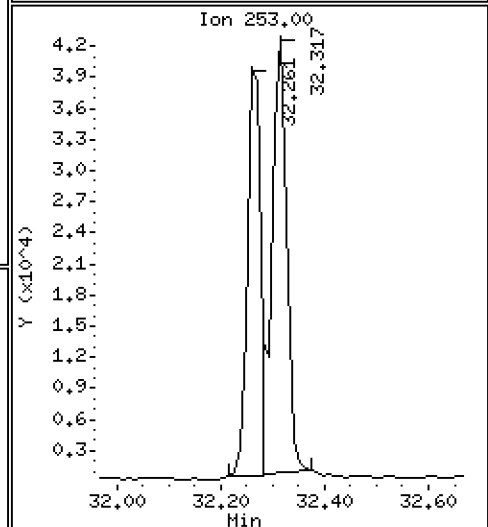
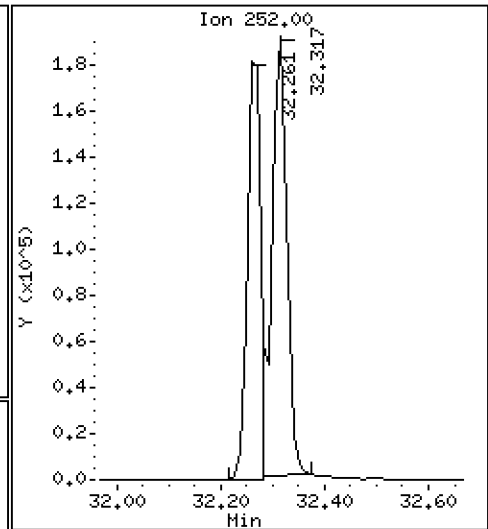
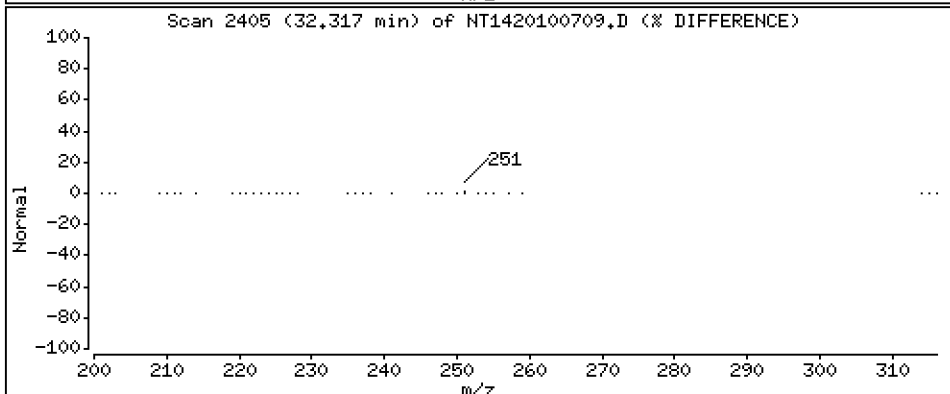
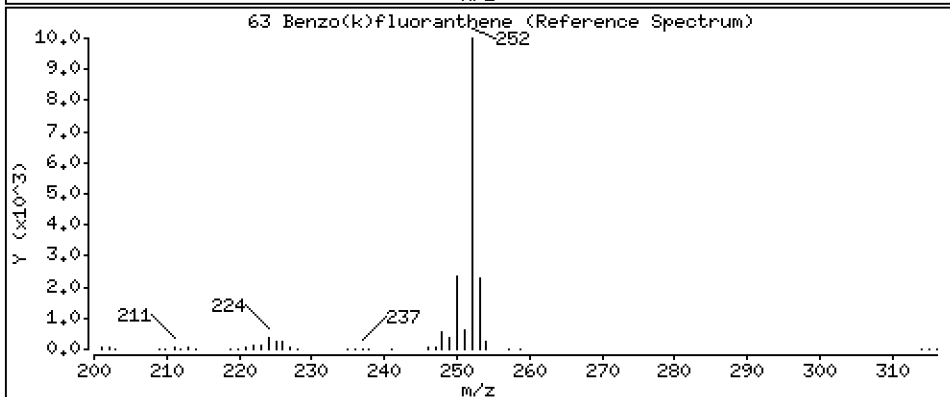
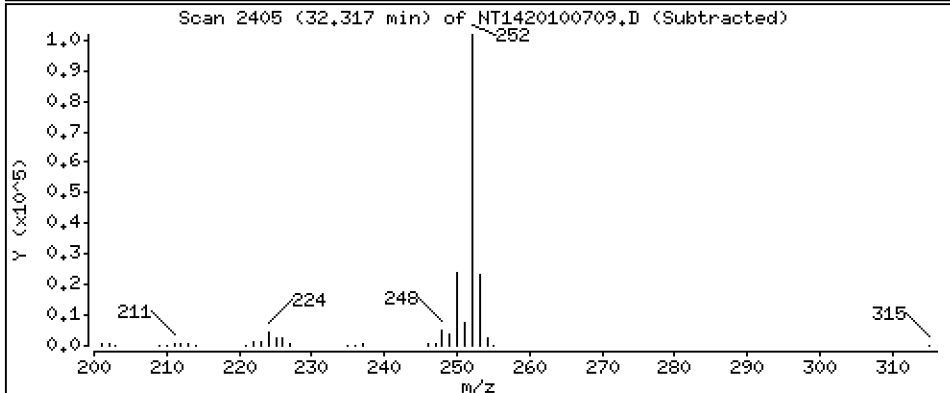
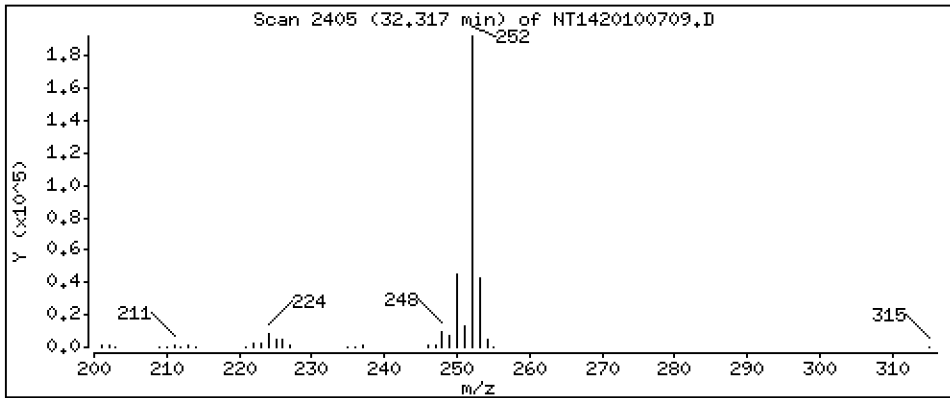
Operator: VTS

Column phase: Rxi-17Si11 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

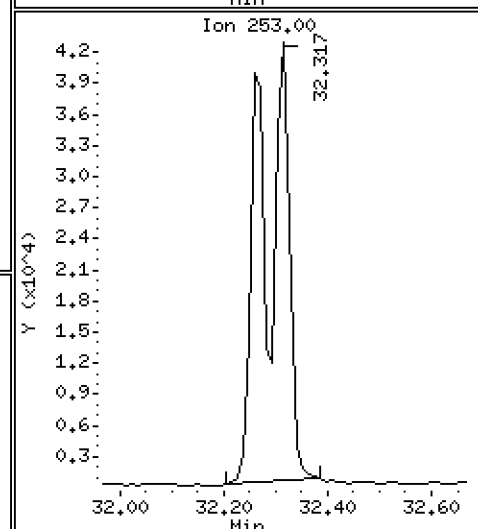
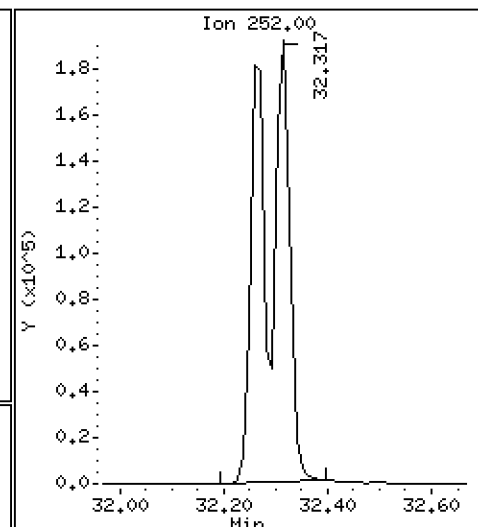
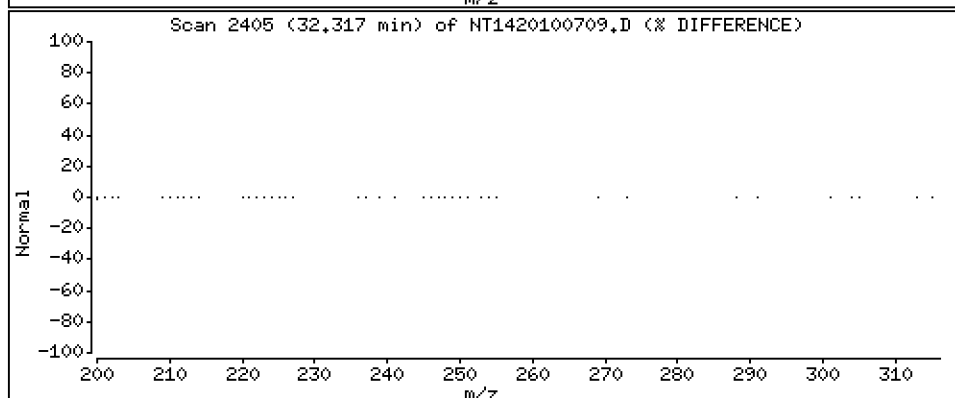
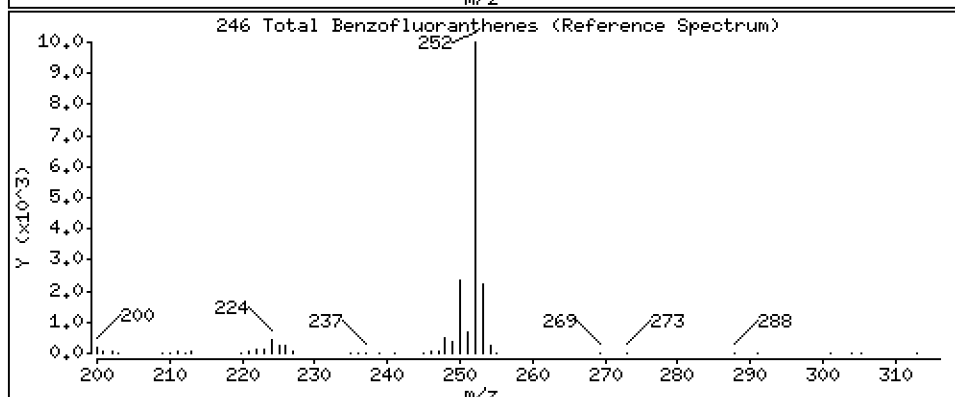
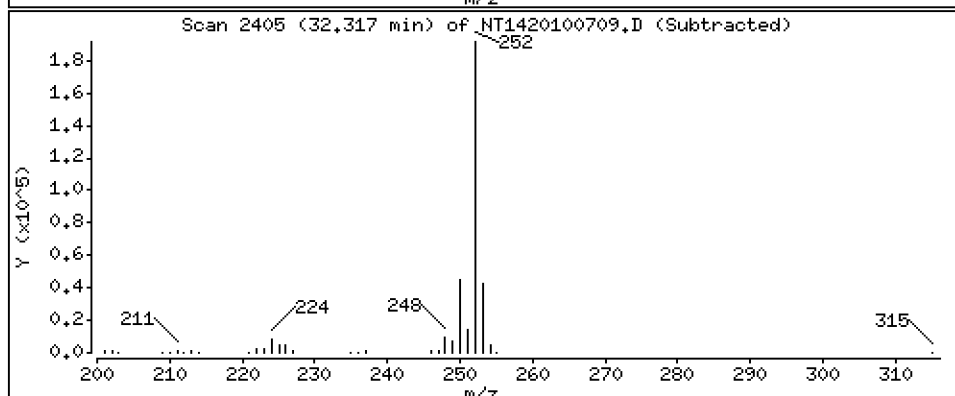
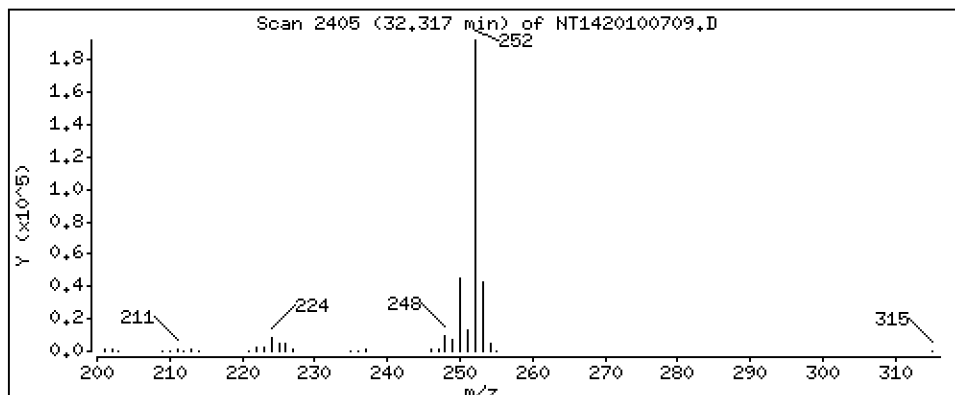
Operator: VTS

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

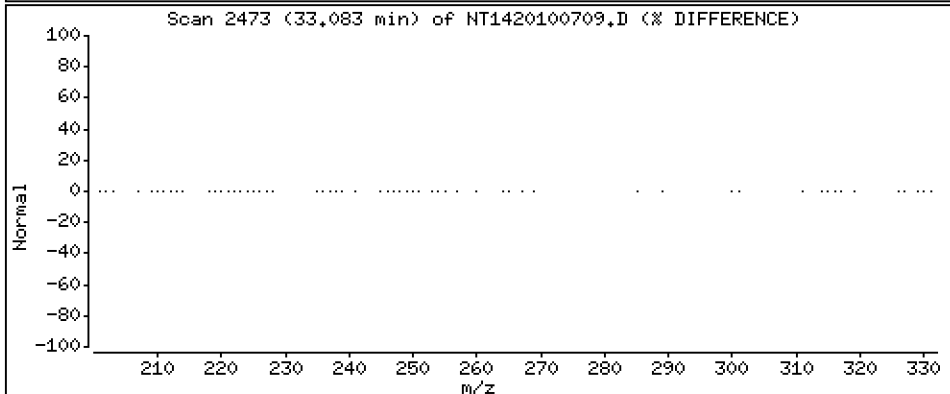
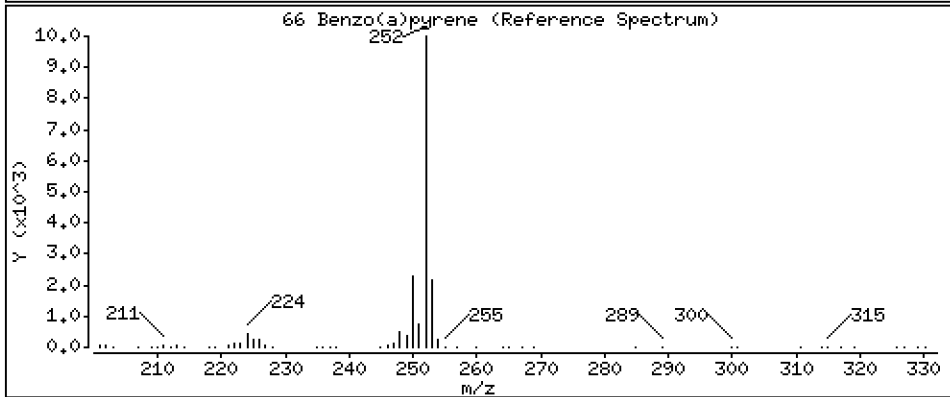
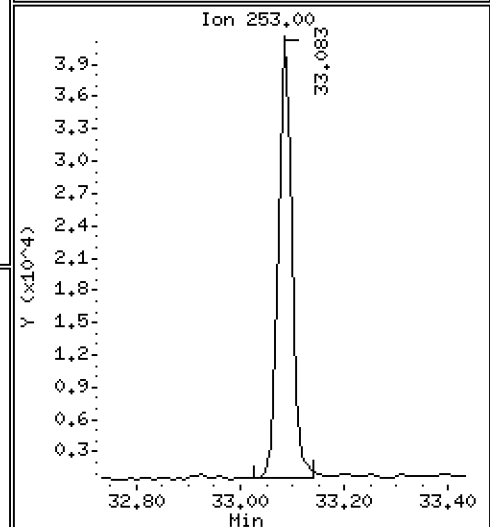
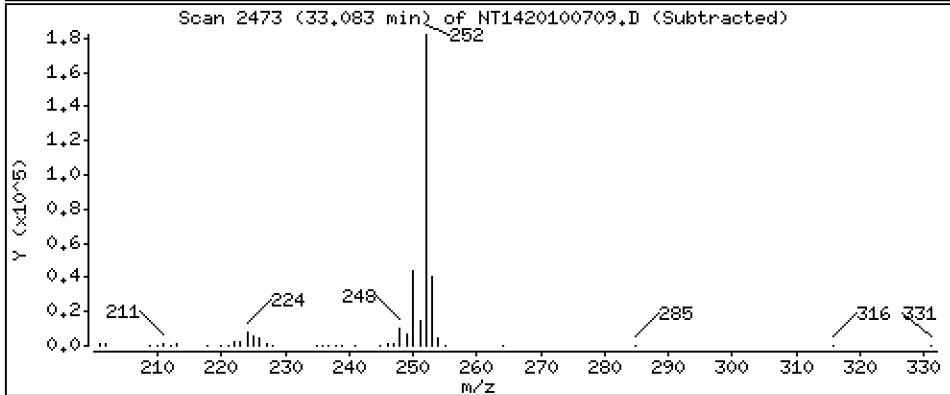
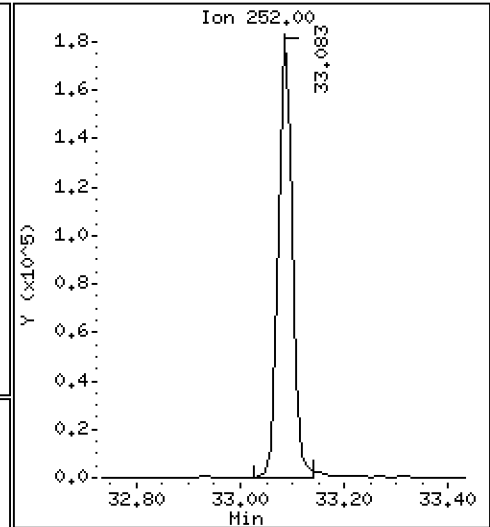
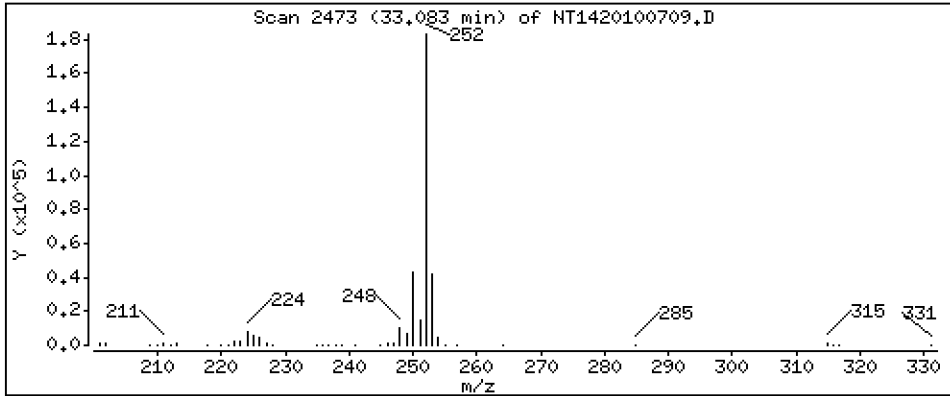
Operator: VTS

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

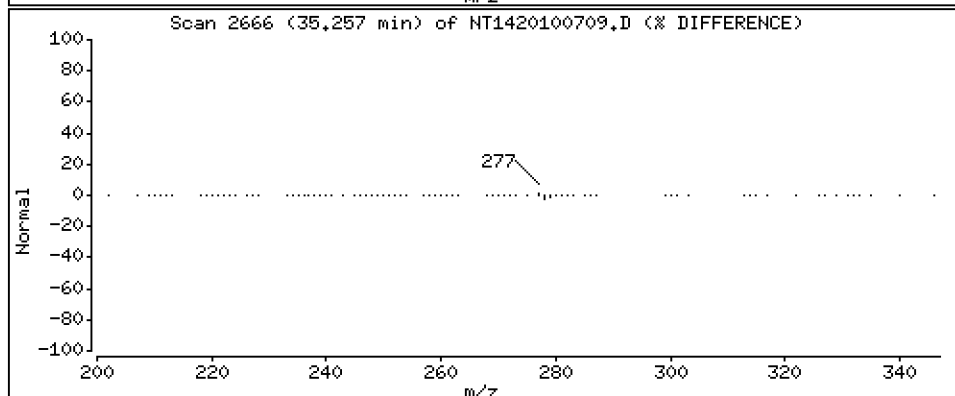
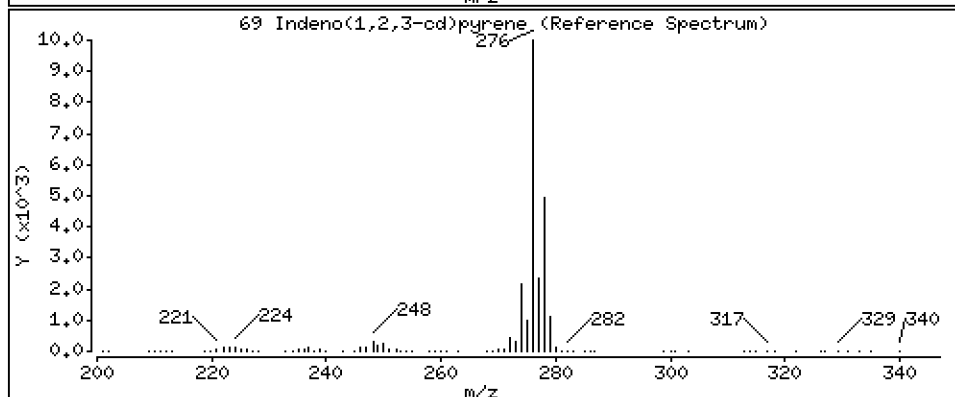
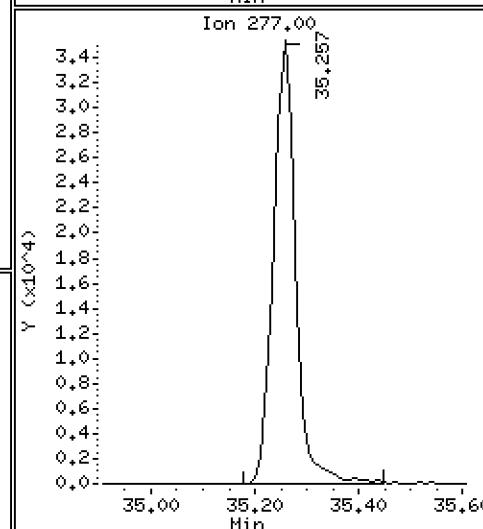
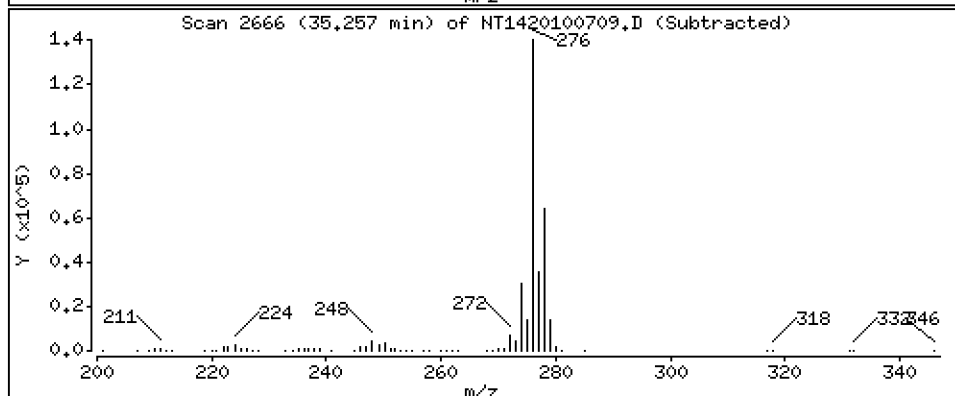
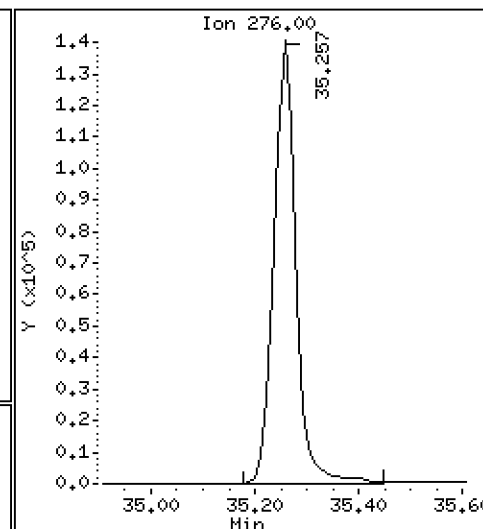
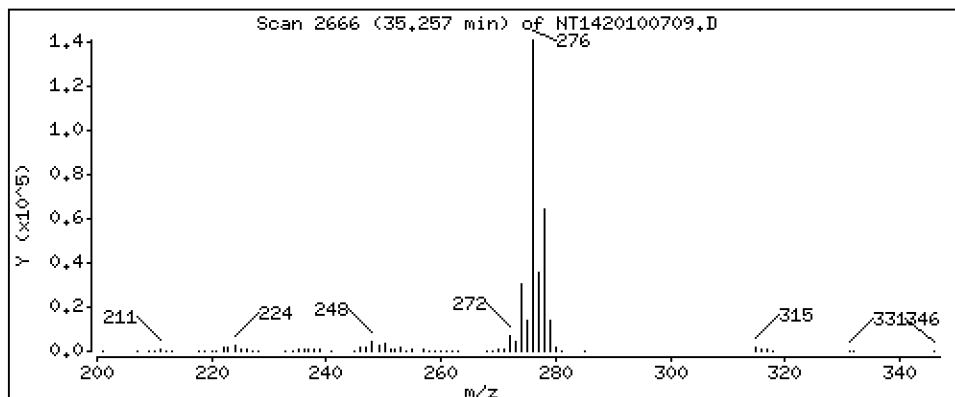
Operator: VTS

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

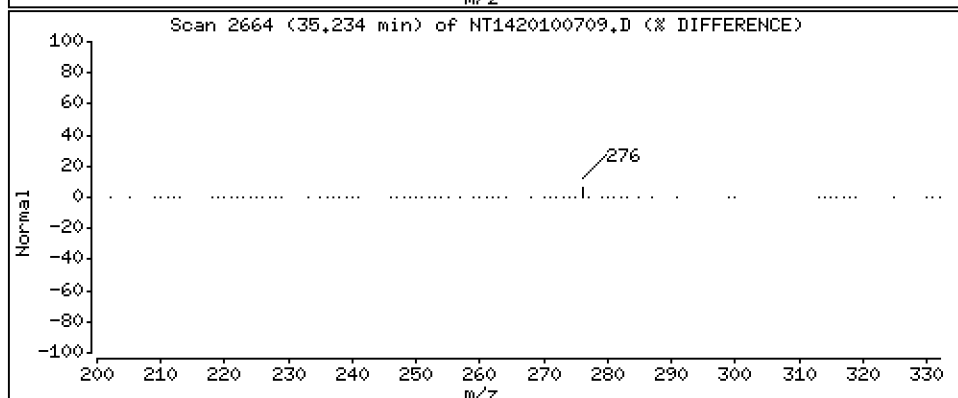
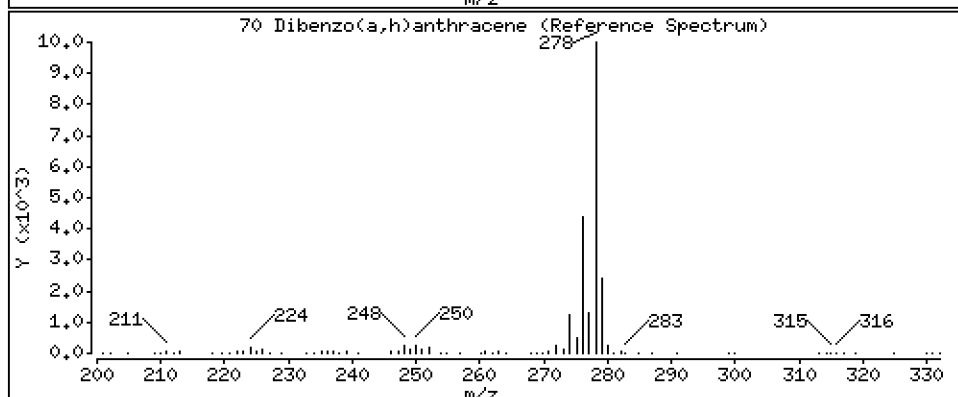
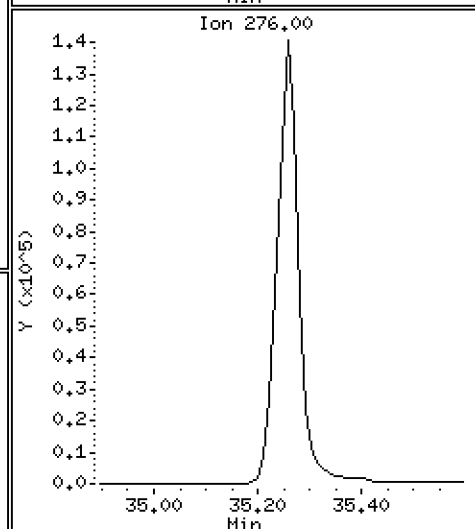
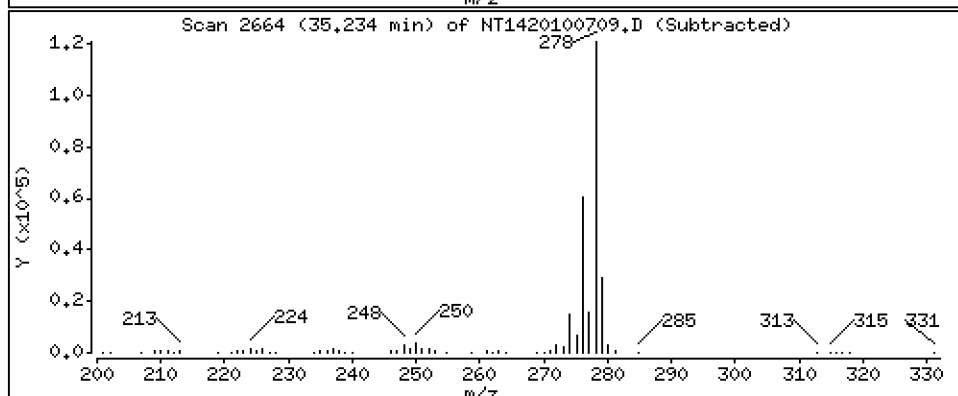
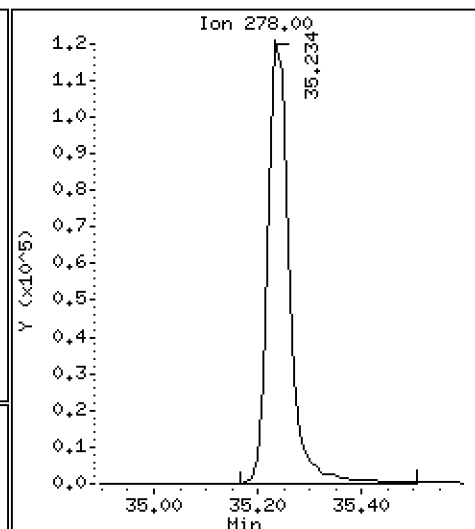
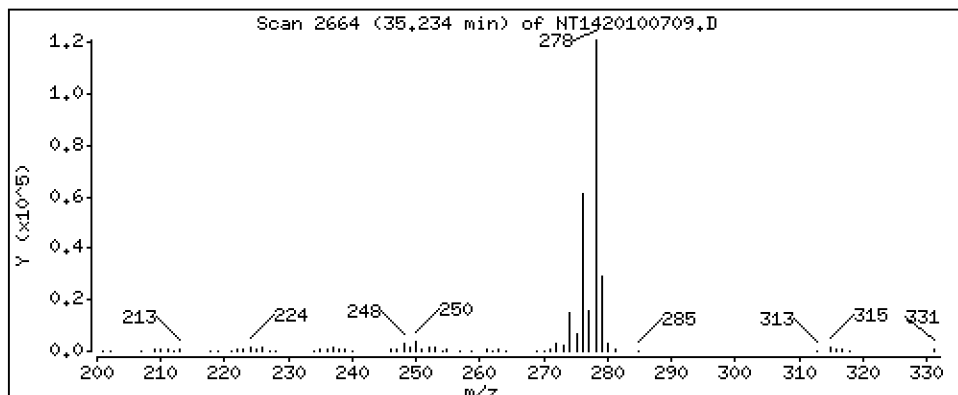
Operator: VTS

Column phase: Rxi-17Sil 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

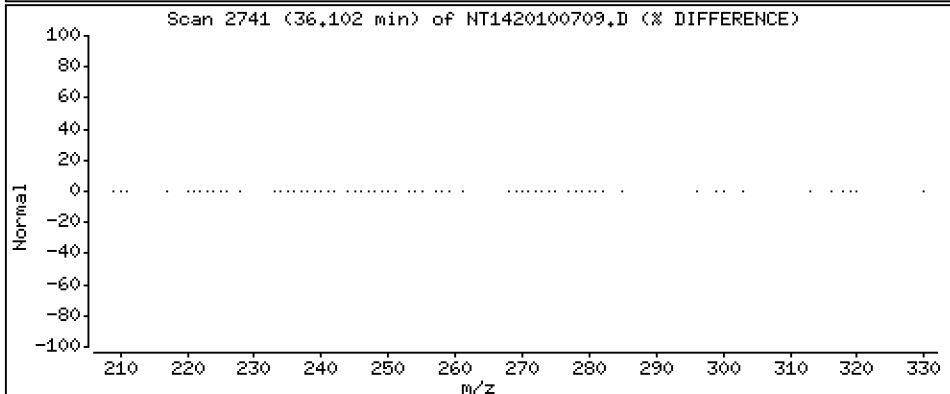
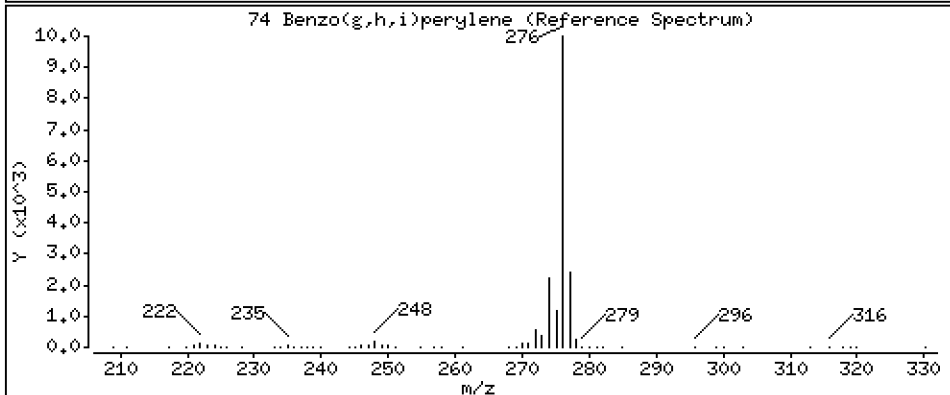
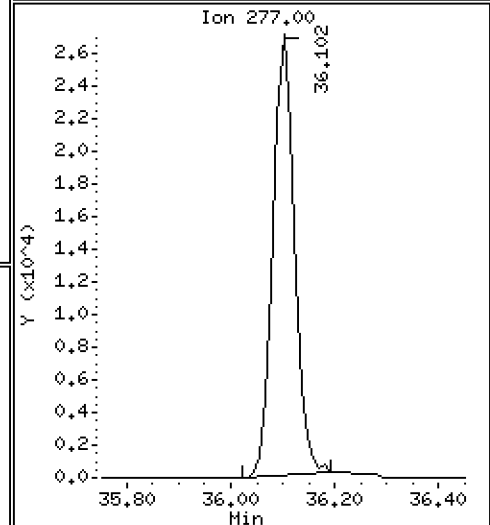
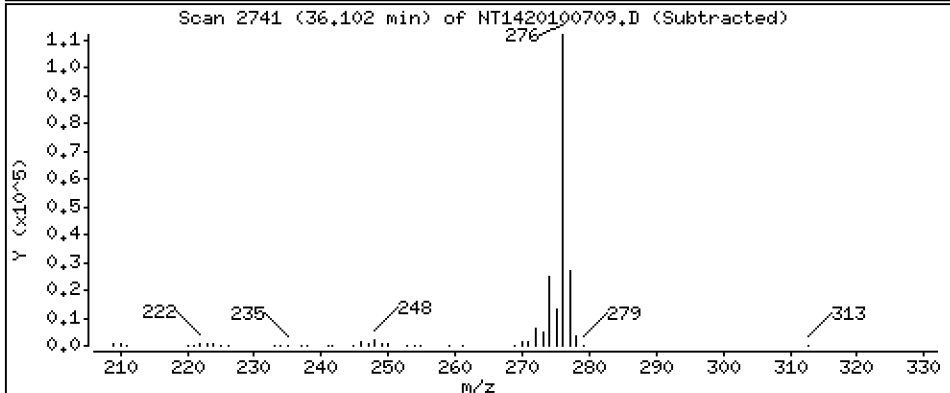
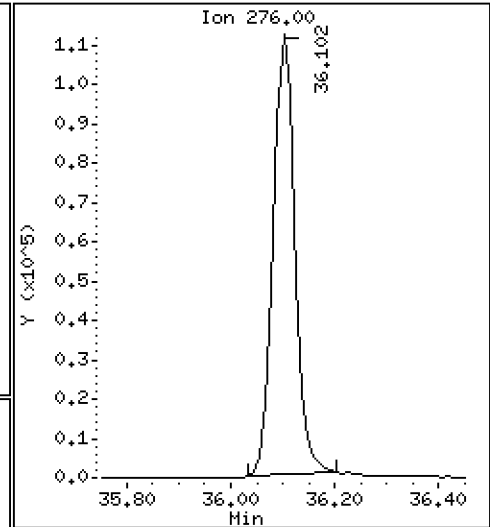
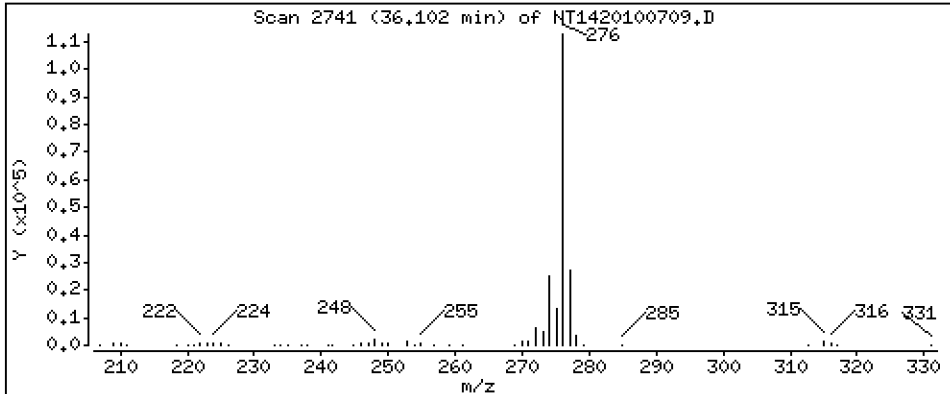
Operator: VTS

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

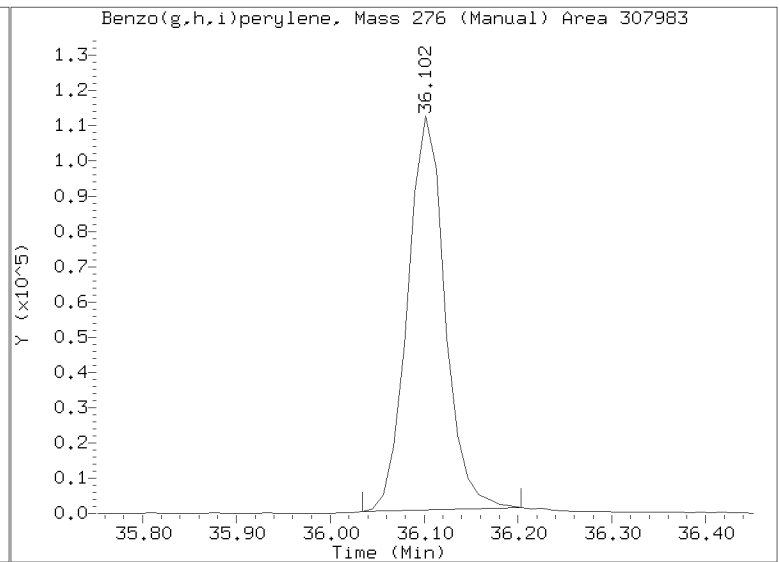
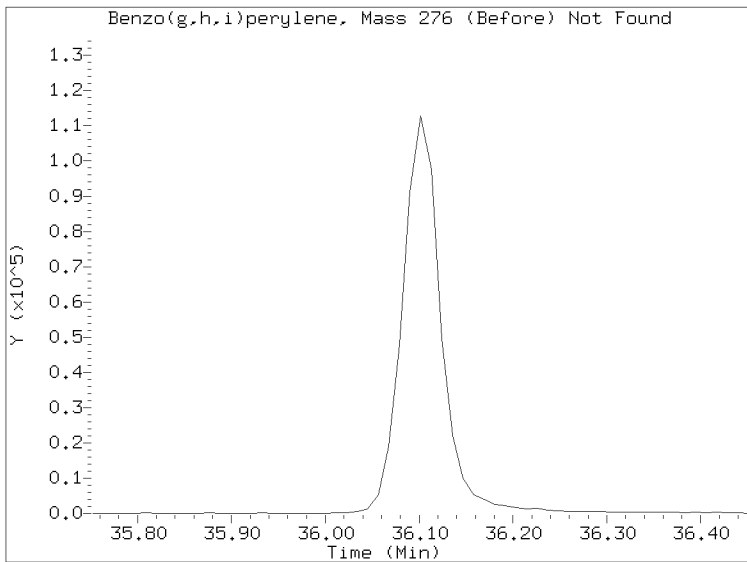
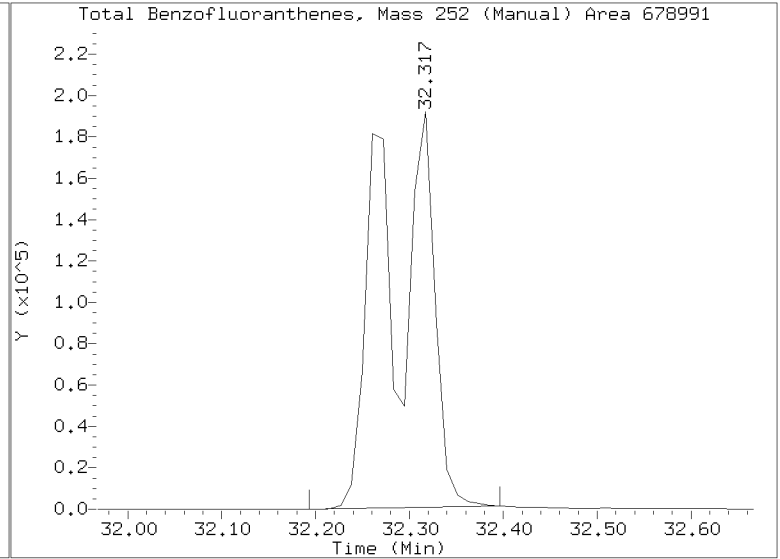
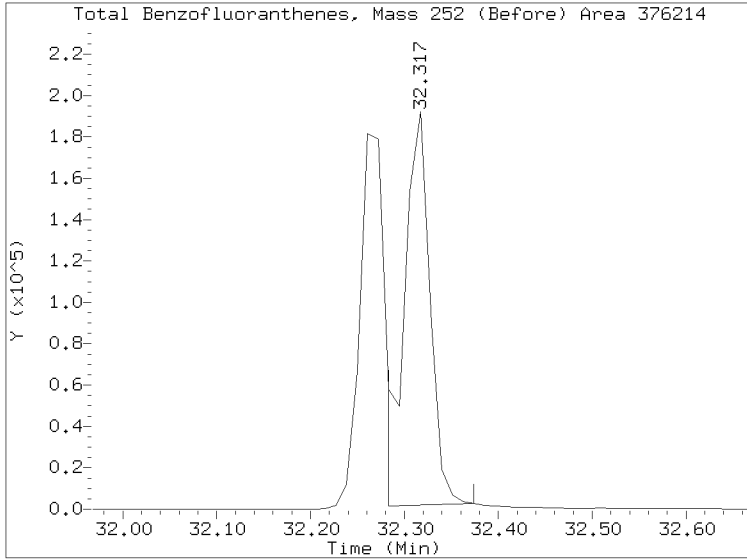
RRT check based on Ccal File: NT1420100711.D

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:

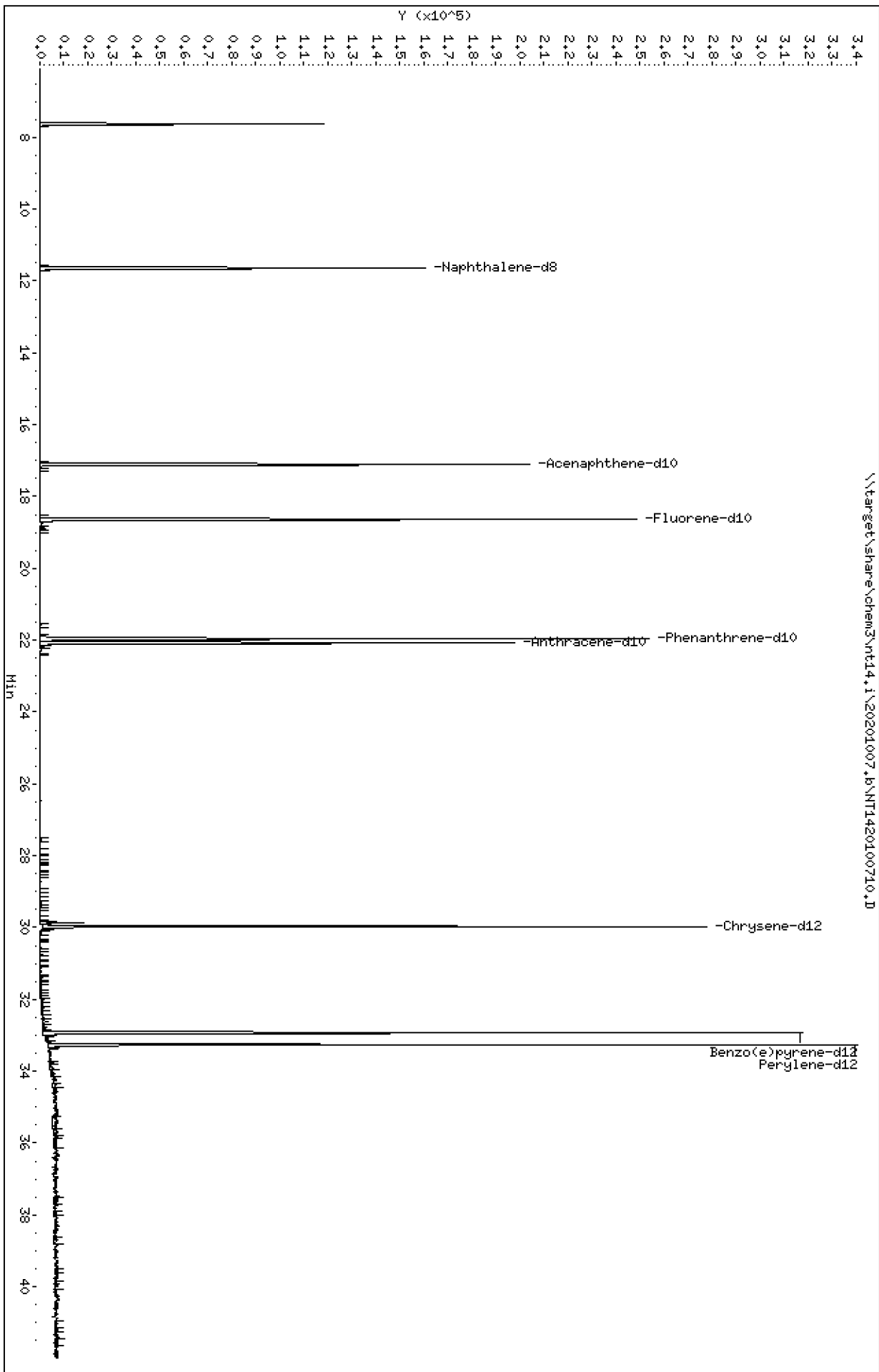
Sample Info: S100085-ICB1

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\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 *



Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DG00090

Laboratory ID: SIG0417-SCV1

Sequence: SIG0417

Sequence Name: SIM TBT

Standard ID: I006678

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Tributyltin Ion	1.5460	1.75	12.9	20.00
Triphenyltin	1.5918	1.70	6.6	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20200730.6\MS20073008.D
Date: 30-JUL-2020 15:12

Client ID:

Sample Info: SCV200730

Purge Volume: 100.0

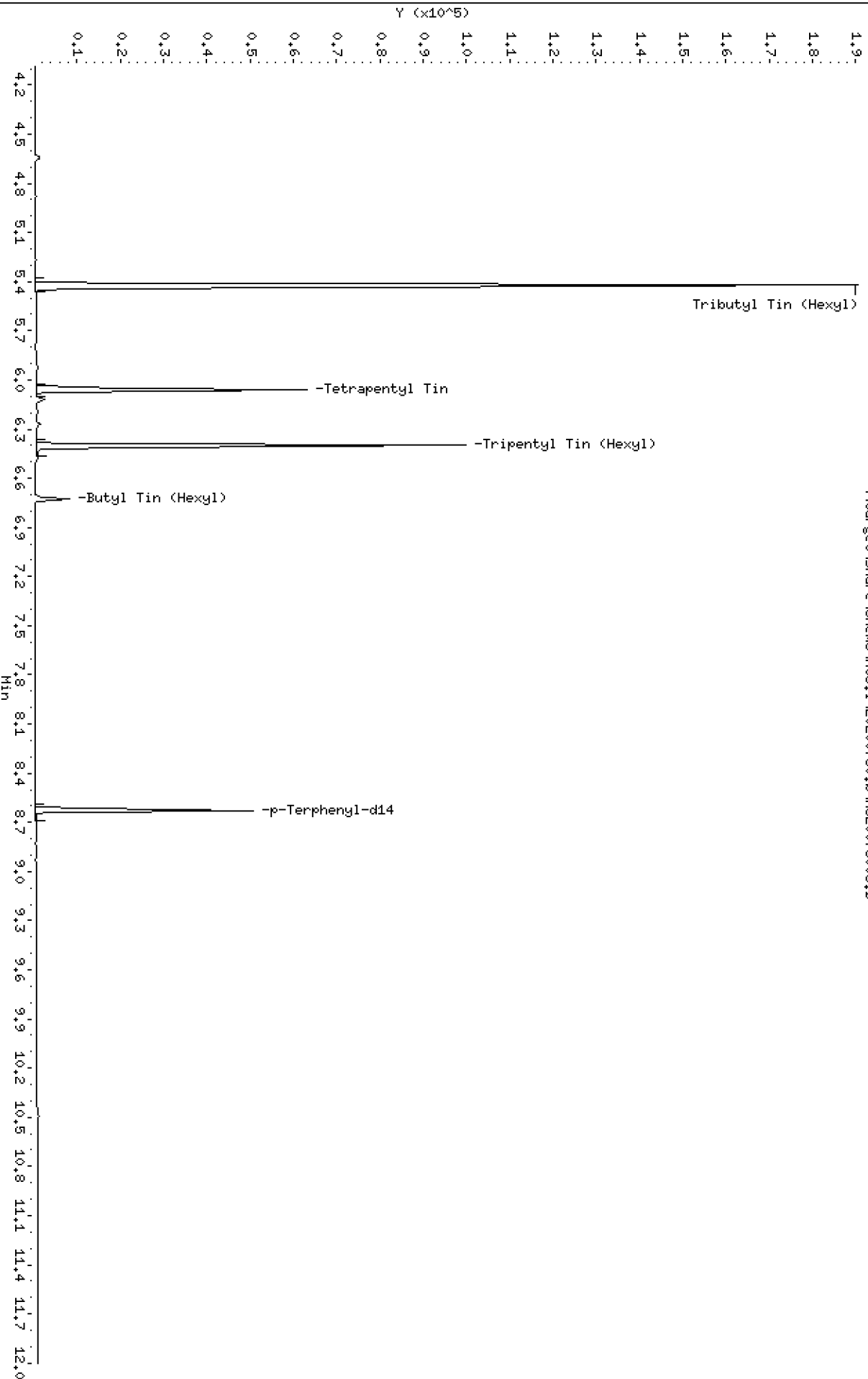
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\MS20073008.D



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100,0

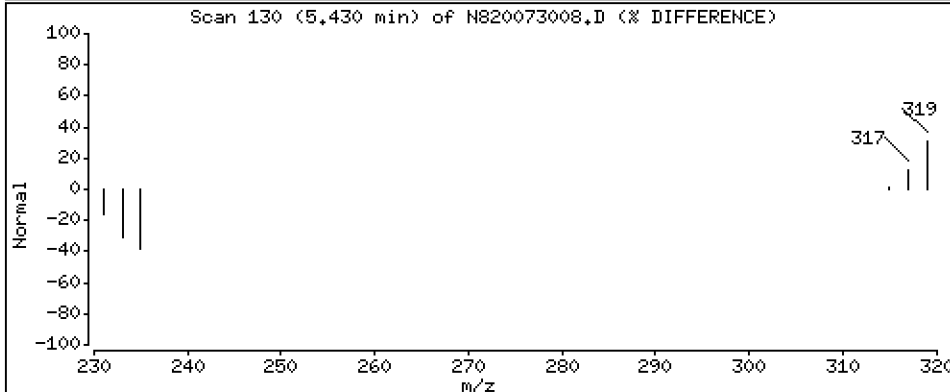
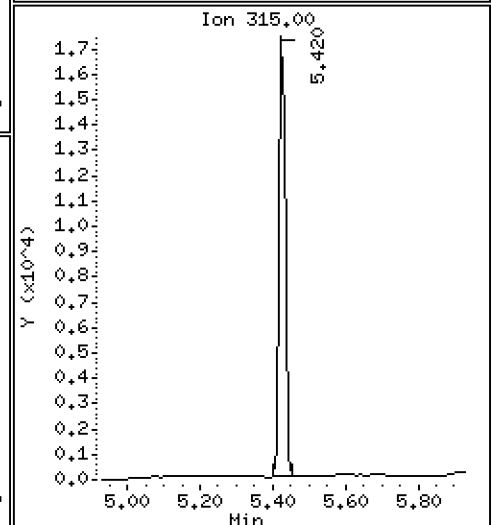
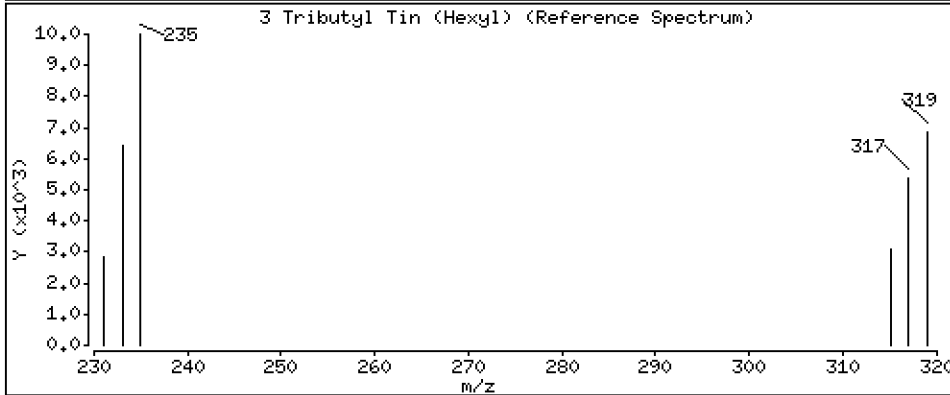
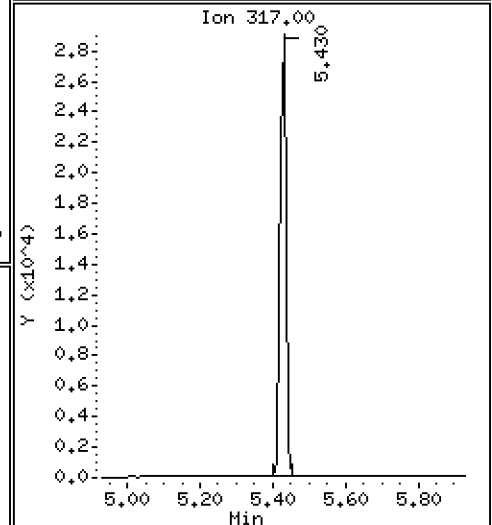
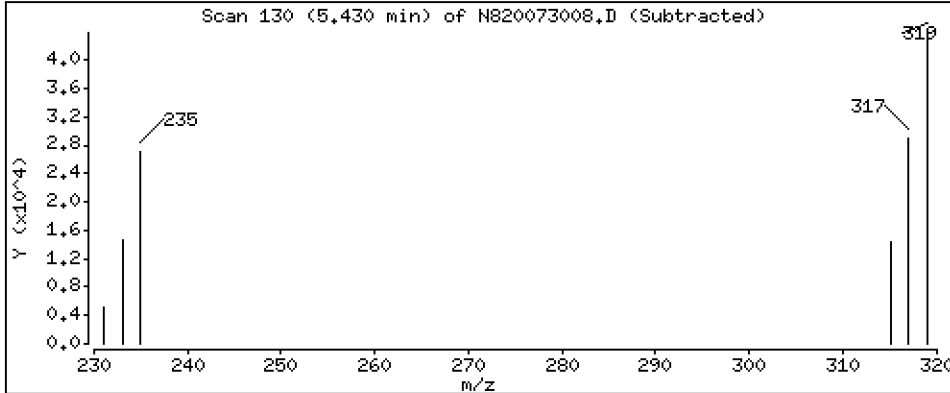
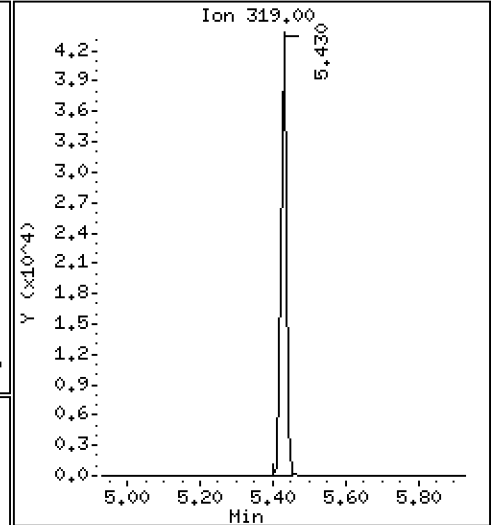
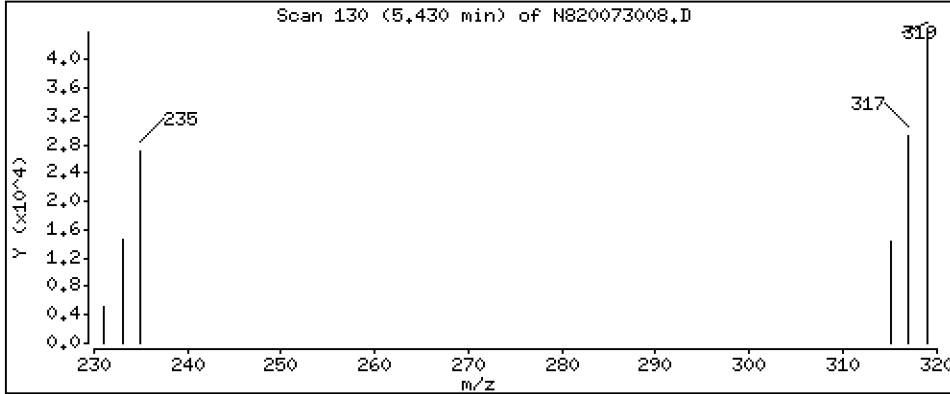
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,25

3 Tributyl Tin (Hexyl)

Concentration: 11,29 ug/L



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100.0

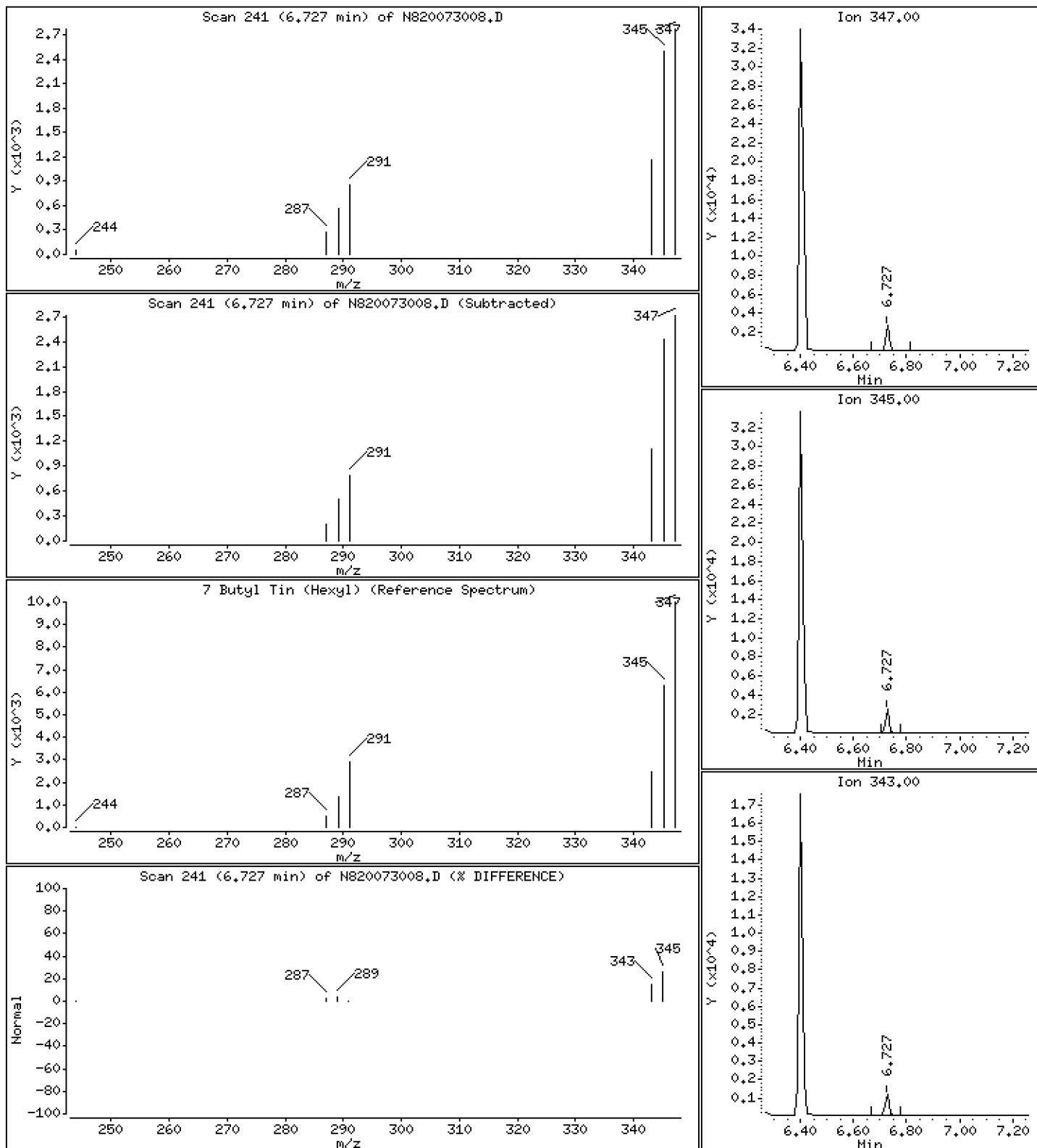
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

7 Butyl Tin (Hexyl)

Concentration: 0.6231 ug/L



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073008.D
 Lab Smp Id: SIG0417-SCV1
 Inj Date : 30-JUL-2020 15:12
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV200730
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:46 jianqing Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * (1000*Vt)/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.000	Volume Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
\$ 1 Tripropyl Tin (Hexyl)	291							
2 Tetrabutyl Tin	289							
3 Tributyl Tin (Hexyl)	319		5.430	5.430	(0.896)	43789	2.25868	11.29
* 4 Tetrapentyl Tin	333		6.062	6.061	(1.000)	61229	2.00000	
5 Dibutyl Tin (Hexyl)	347							
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.742)	35117	2.13224	10.66
7 Butyl Tin (Hexyl)	347		6.727	6.763	(0.780)	2397	0.12463	0.6231
* 8 p-Terphenyl-d14	244		8.626	8.627	(1.000)	47436	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
 AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
 Lab File ID: N820073008.D Calibration Time: 12:23
 Lab Smp Id: SIG0417-SCV1
 Analysis Type: SV Level: LOW
 Quant Type: ISTD Sample Type: WATER
 Operator: JZ
 Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Misc Info: 20-

Test Mode:
 Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	61229	11.80
8 p-Terphenyl-d14	45248	22624	90496	47436	4.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.06	0.00
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	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 - N820073008.D

Lab ID: SIG0417-SCV1

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 15:12

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: N820073003.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0100

Exception: Dibutyl Tin (Hexyl) 0.0200
Exception: Butyl Tin (Hexyl) 0.0200
Exception: Tetra-butyl Tin 0.0200
Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010
Exception: Tripentyl Tin (Hexyl) (Surr) 0.0200

* 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: 20J0385

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,i\20201007,b\NT1420100709.D

Date : 07-OCT-2020 16:45

Client ID:

Sample Info: S100085-SCV1

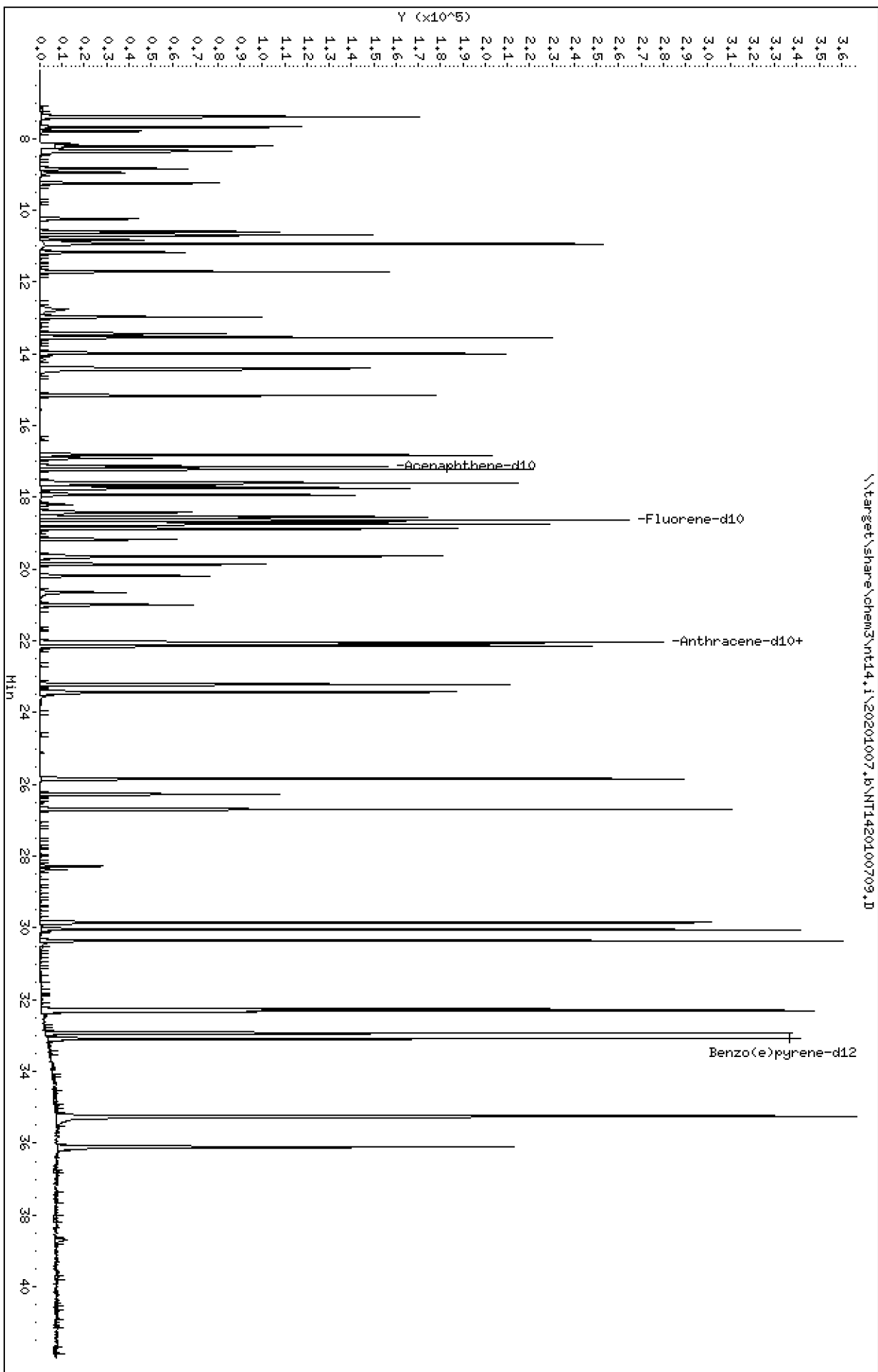
Column phase: Rxi-17S11 MS

Instrument: nt14,i

Operator: VTS

Column diameter: 0.25

Page 1



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

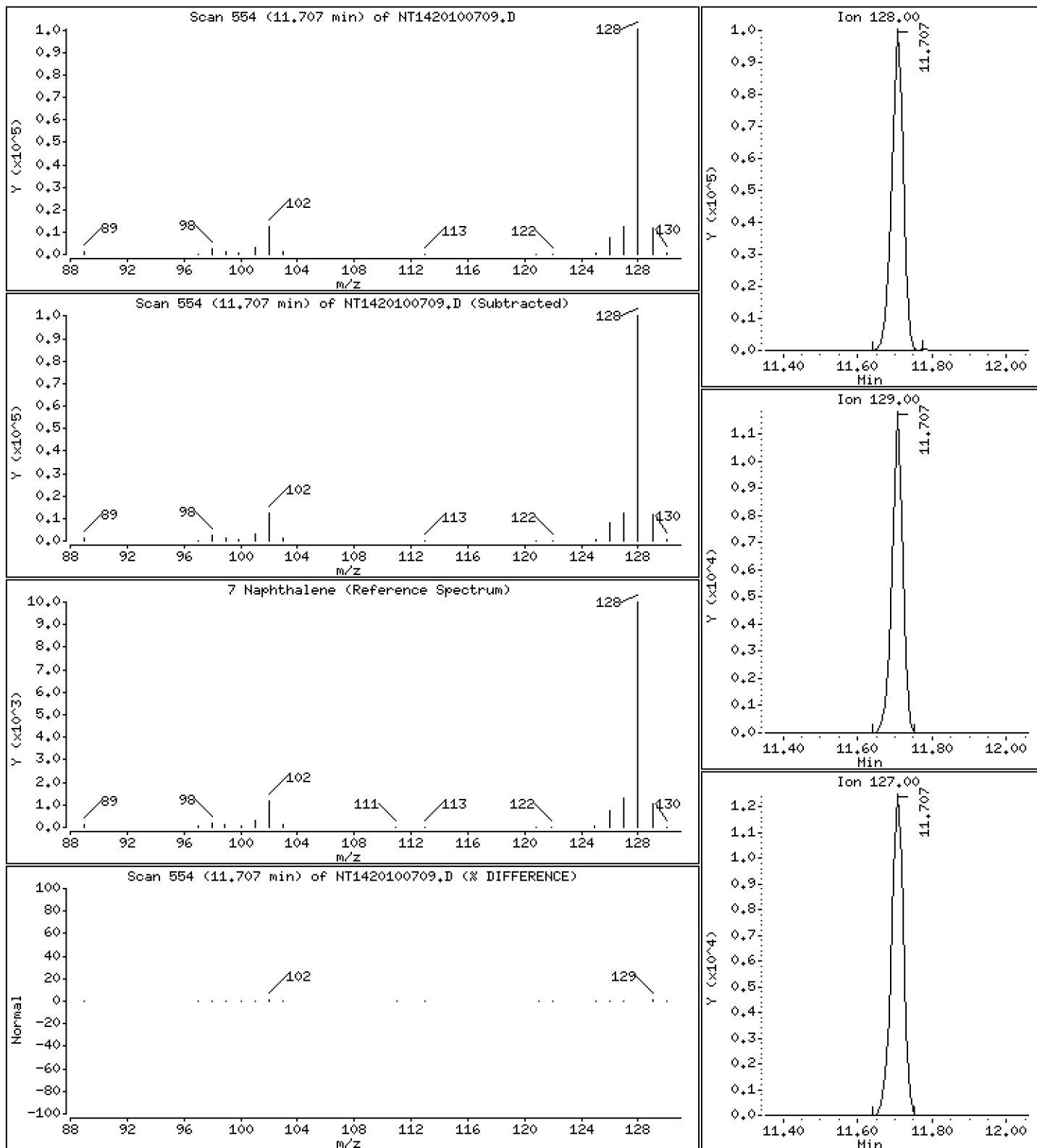
Operator: VTS

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

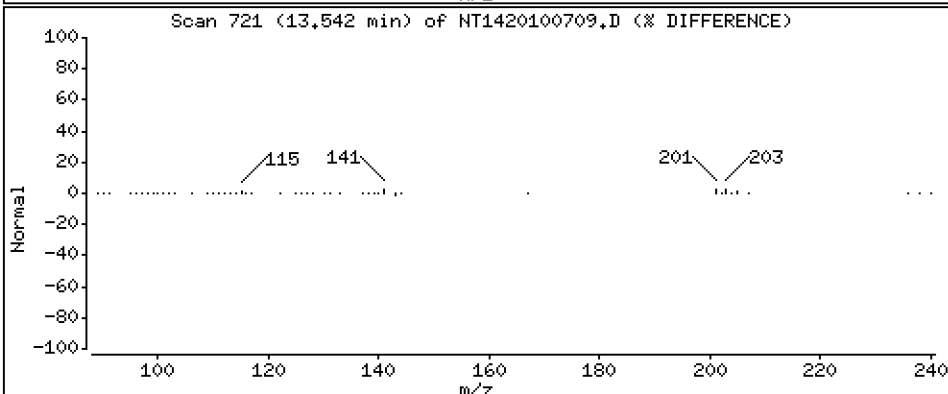
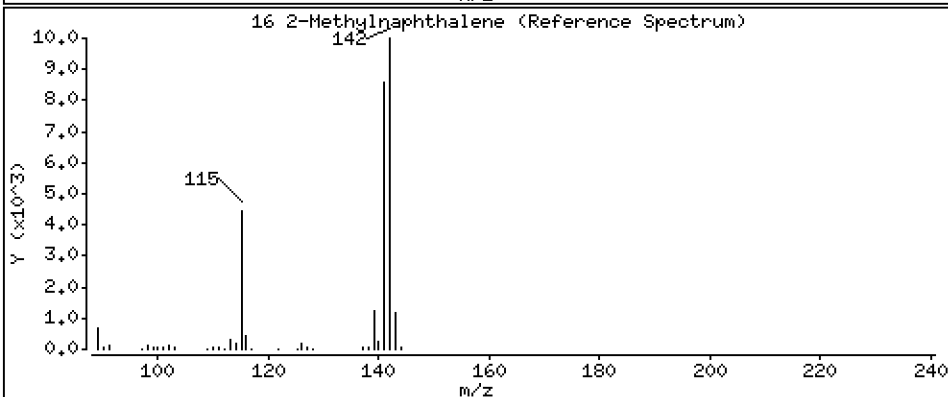
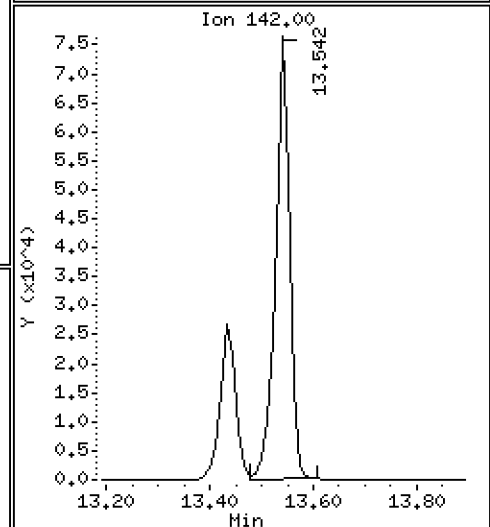
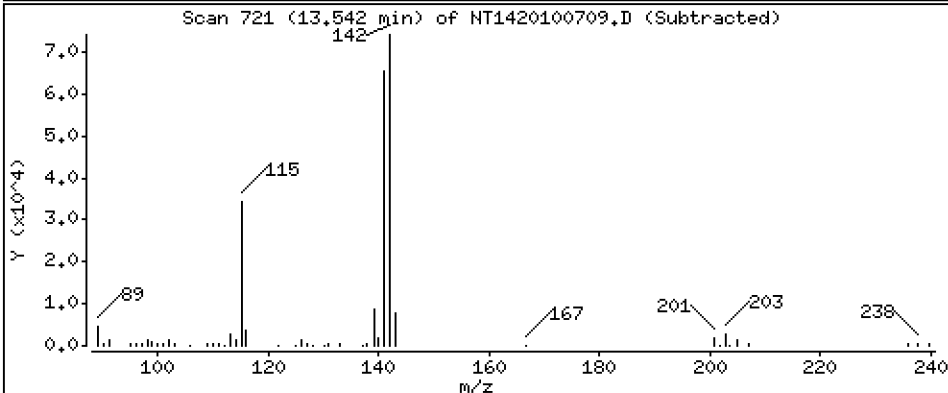
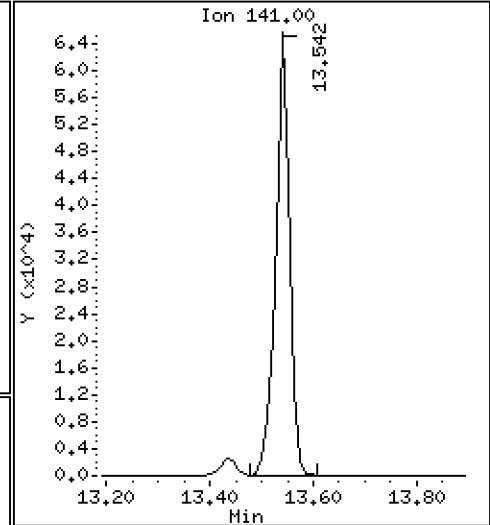
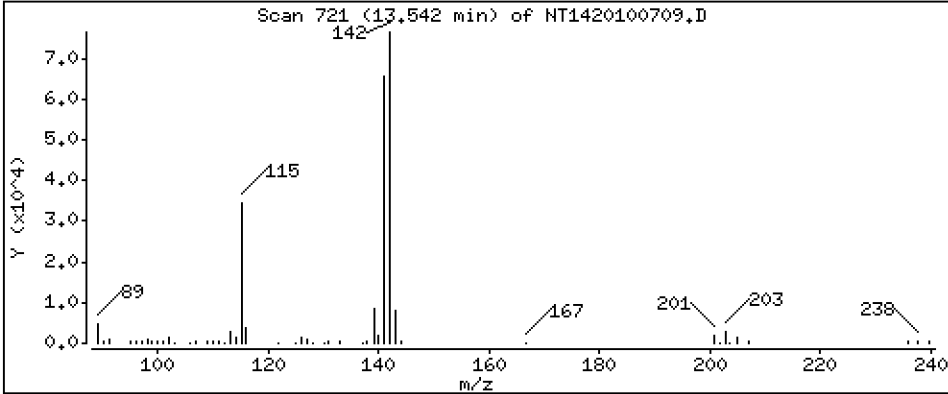
Operator: VTS

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

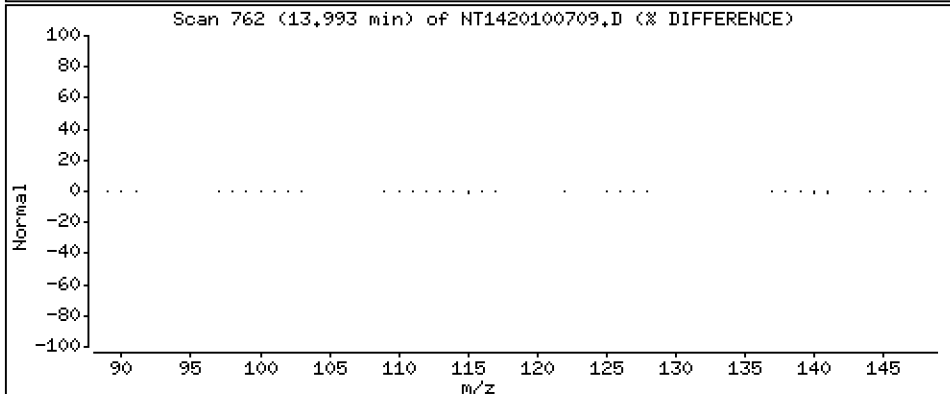
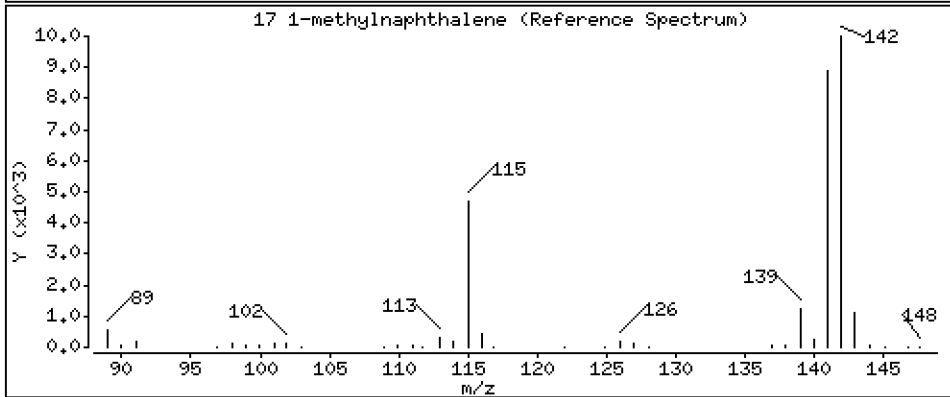
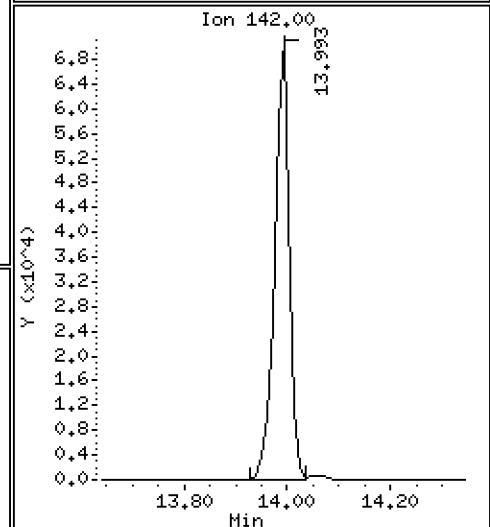
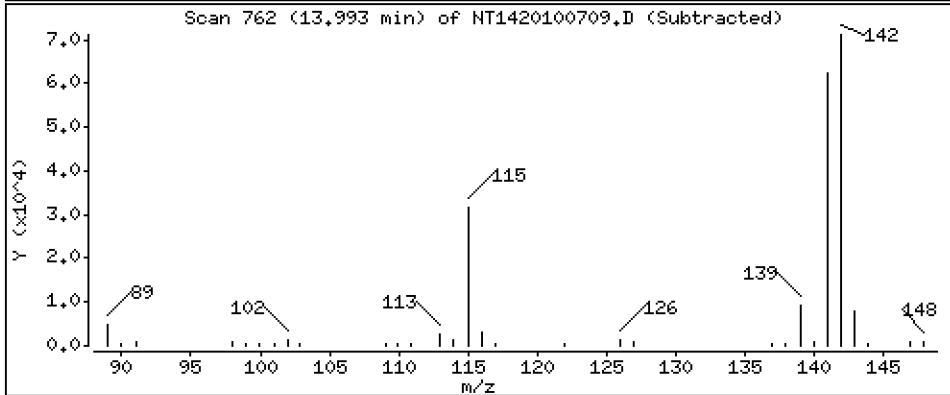
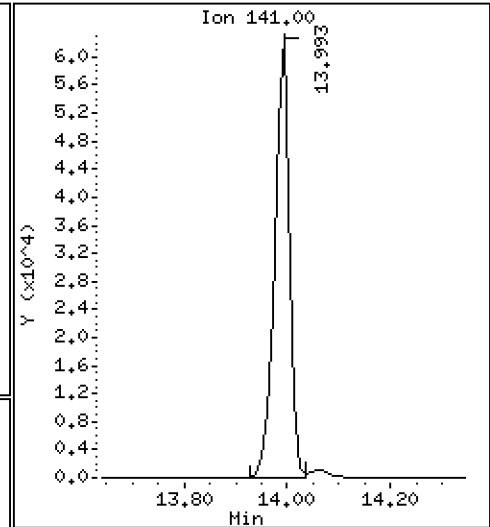
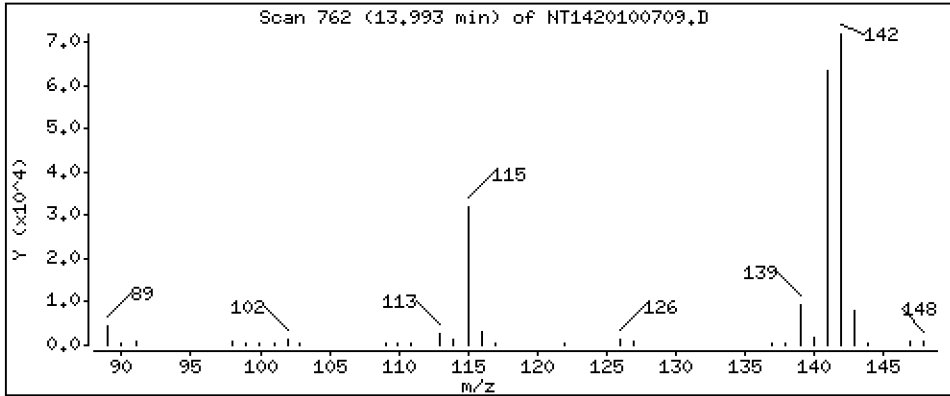
Operator: VTS

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

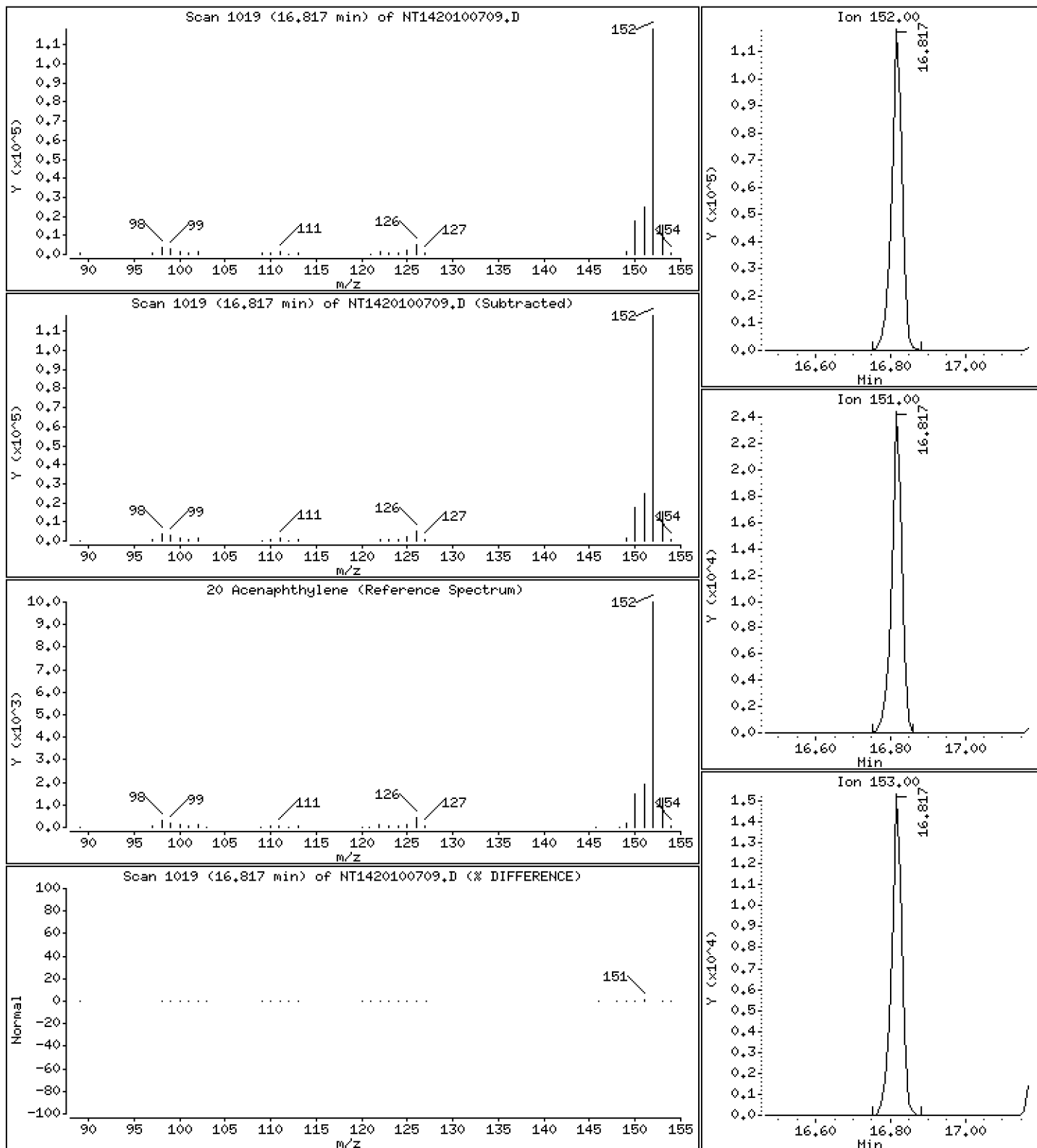
Operator: VTS

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

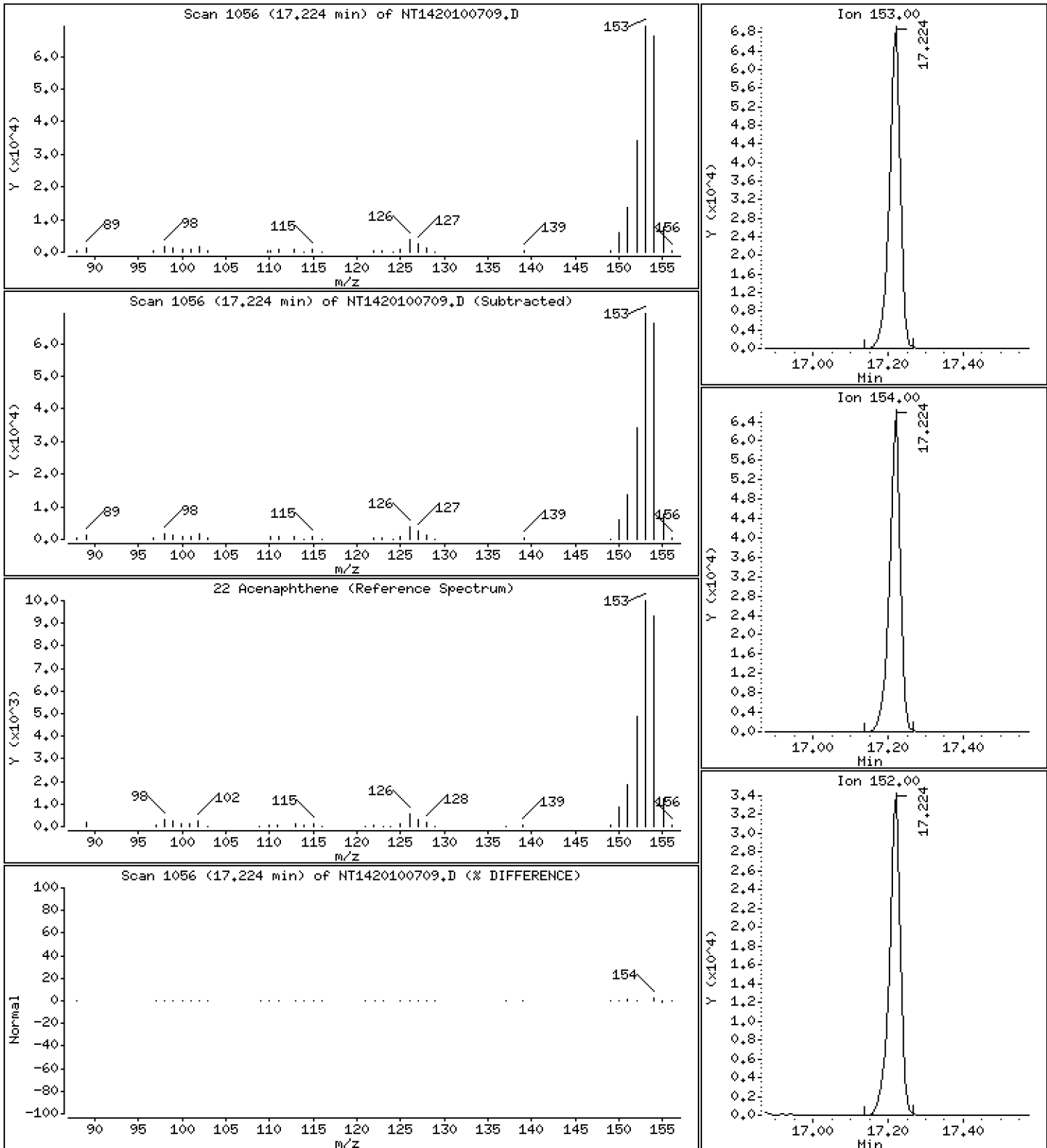
Operator: VTS

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

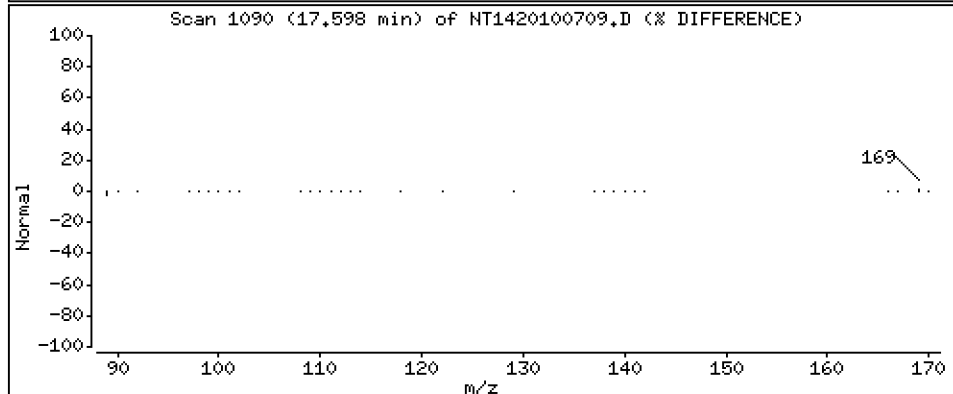
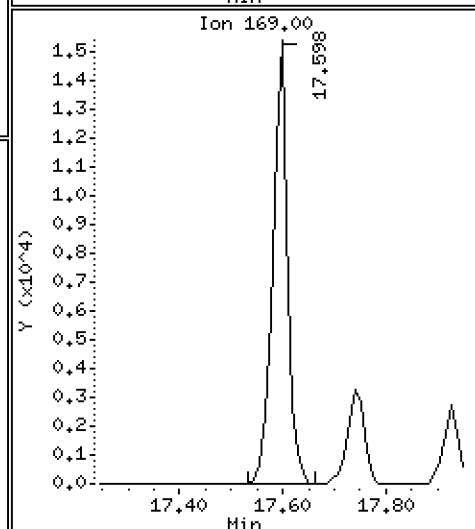
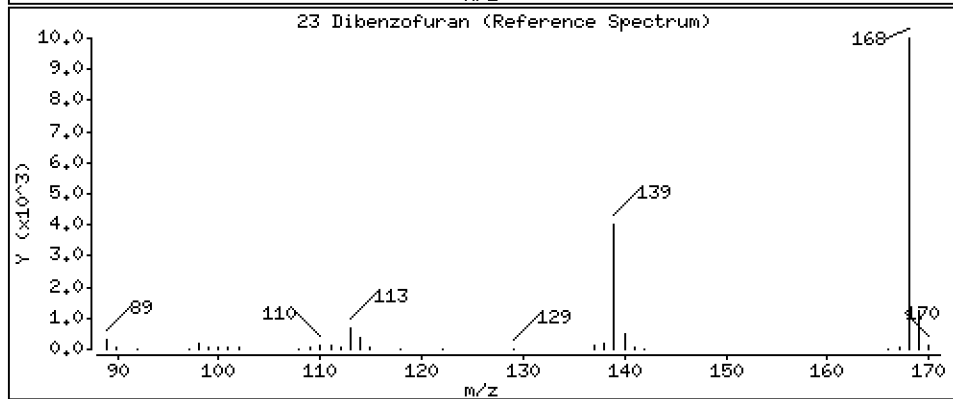
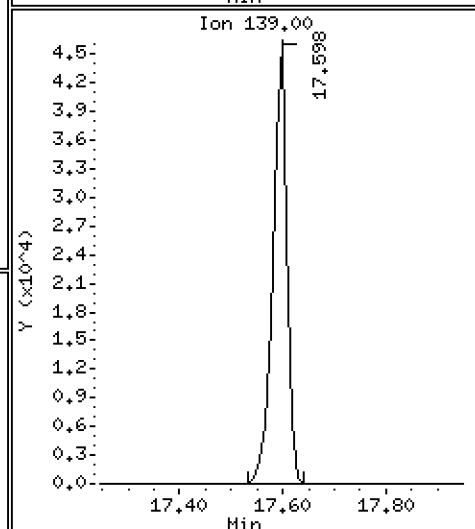
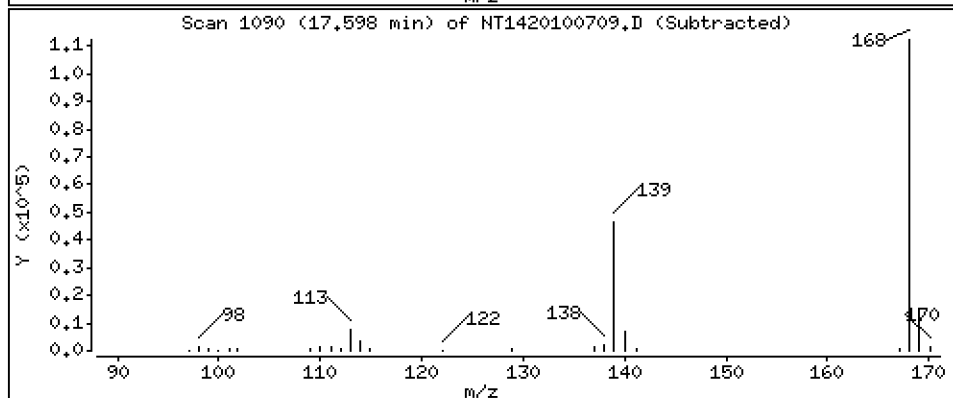
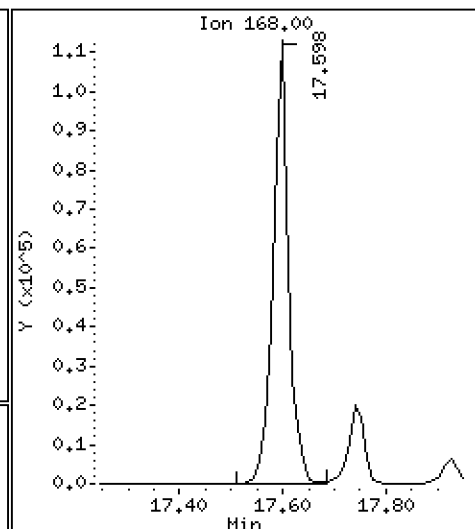
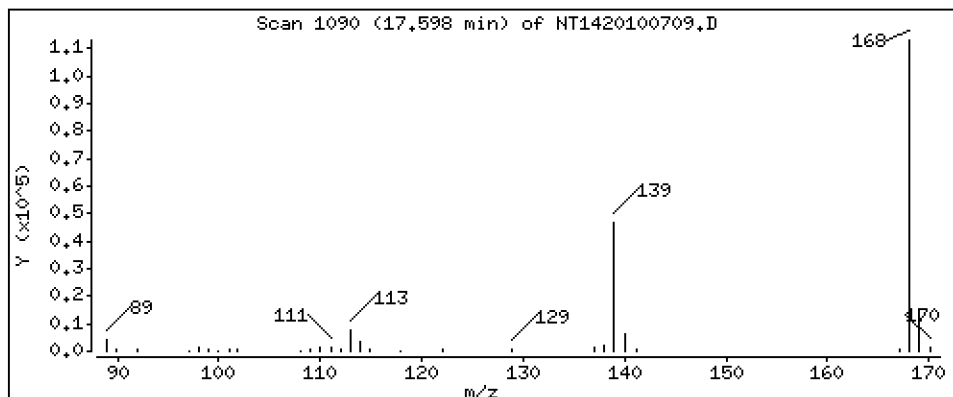
Operator: VTS

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

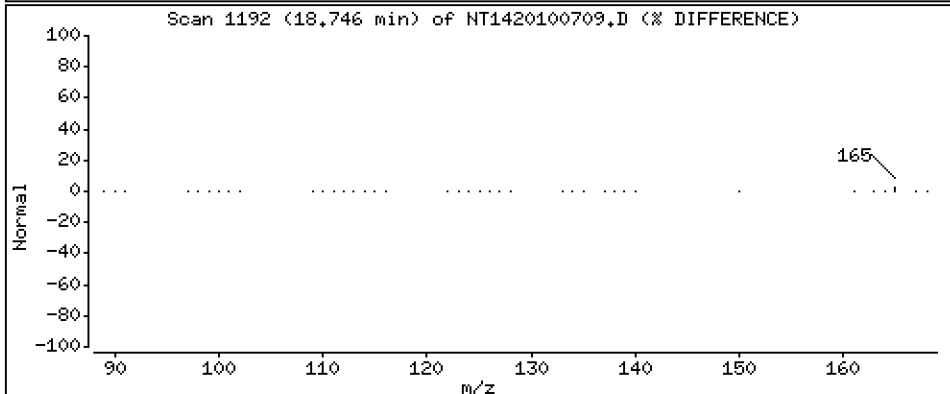
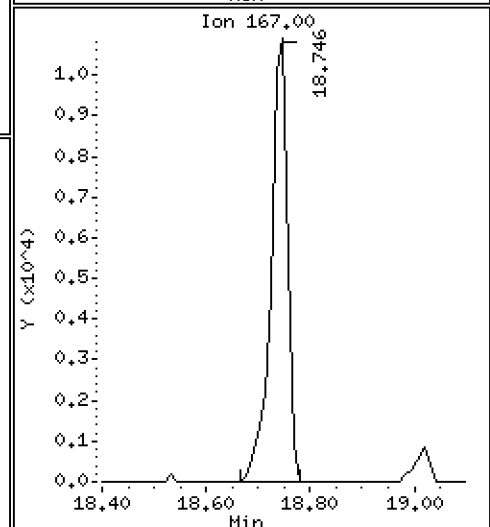
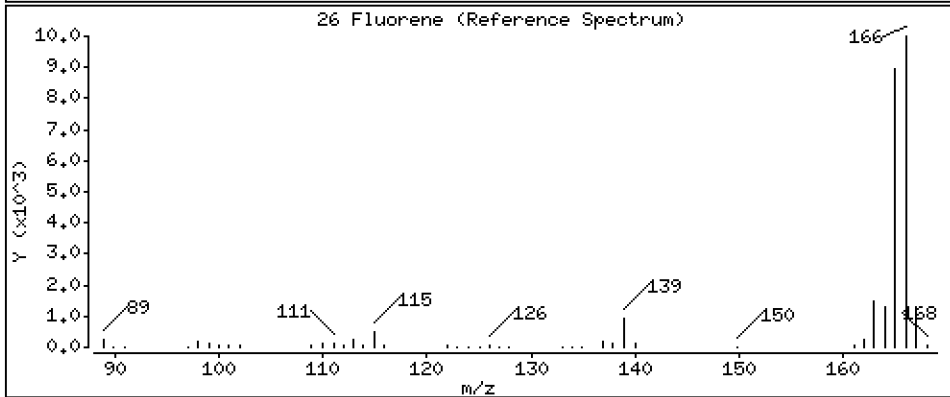
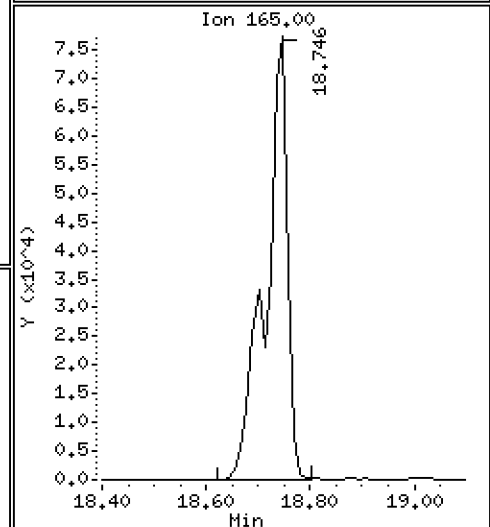
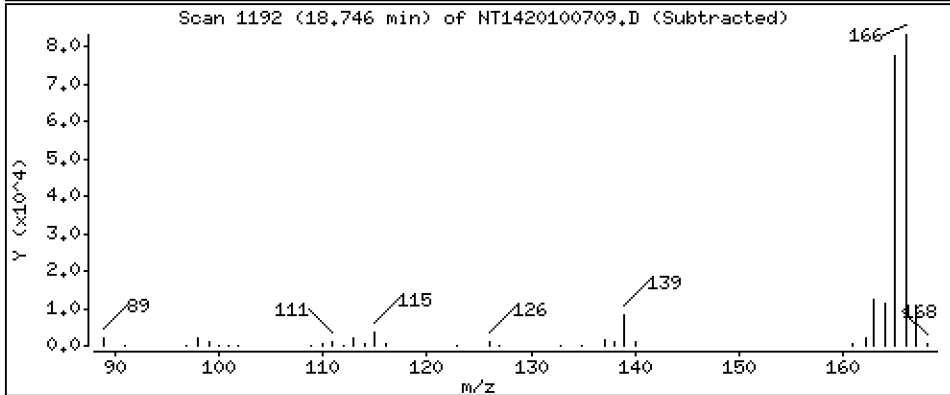
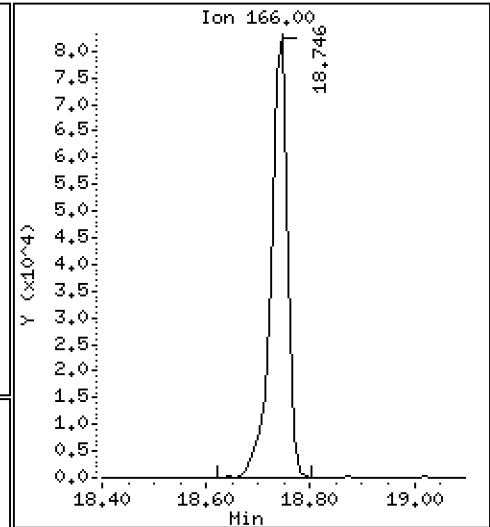
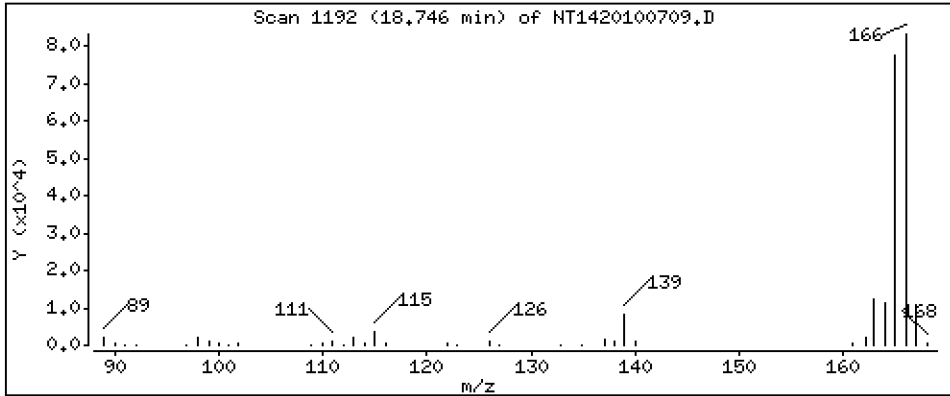
Operator: VTS

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

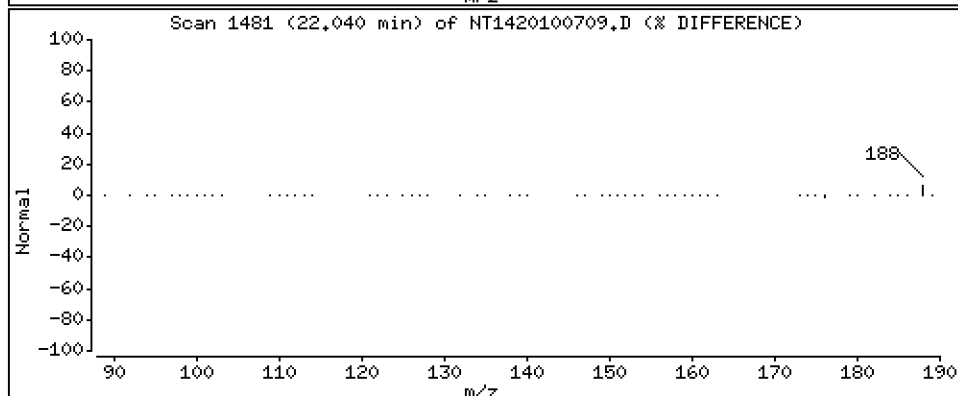
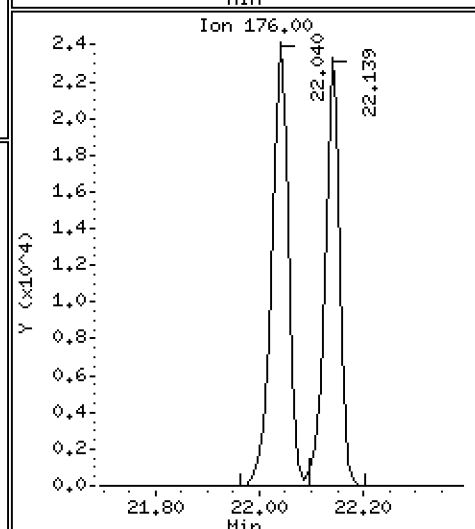
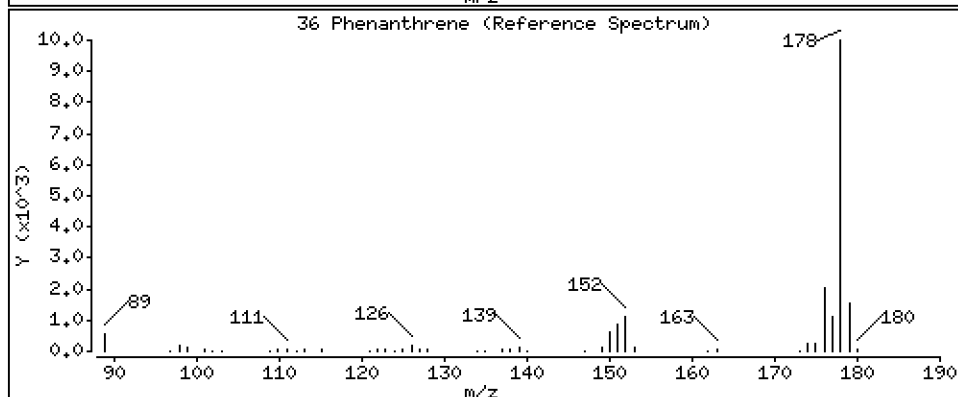
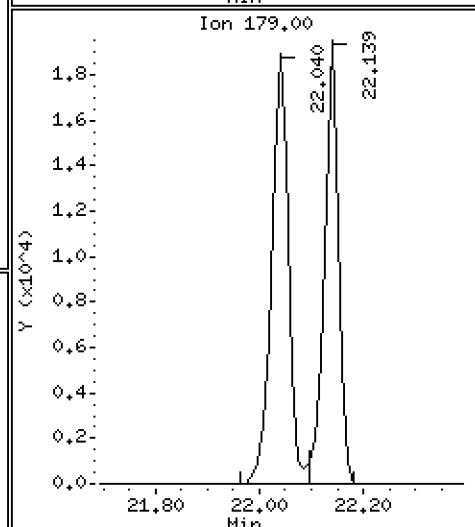
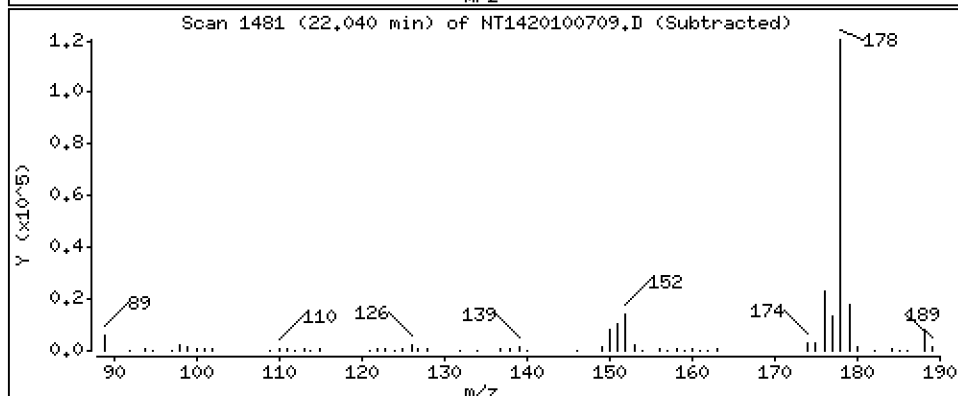
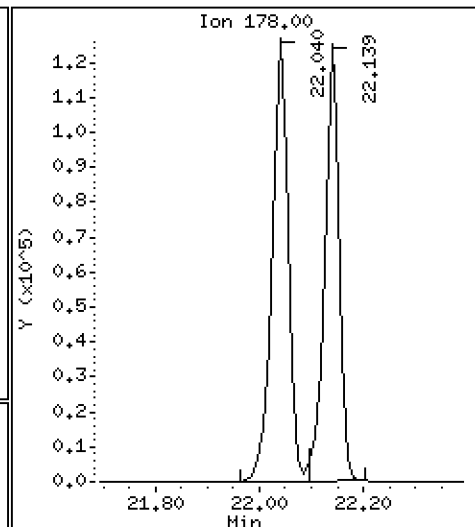
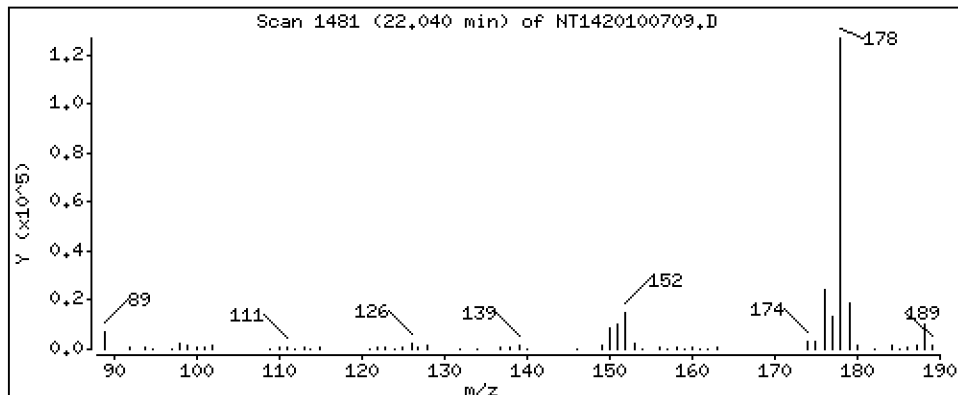
Operator: VTS

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

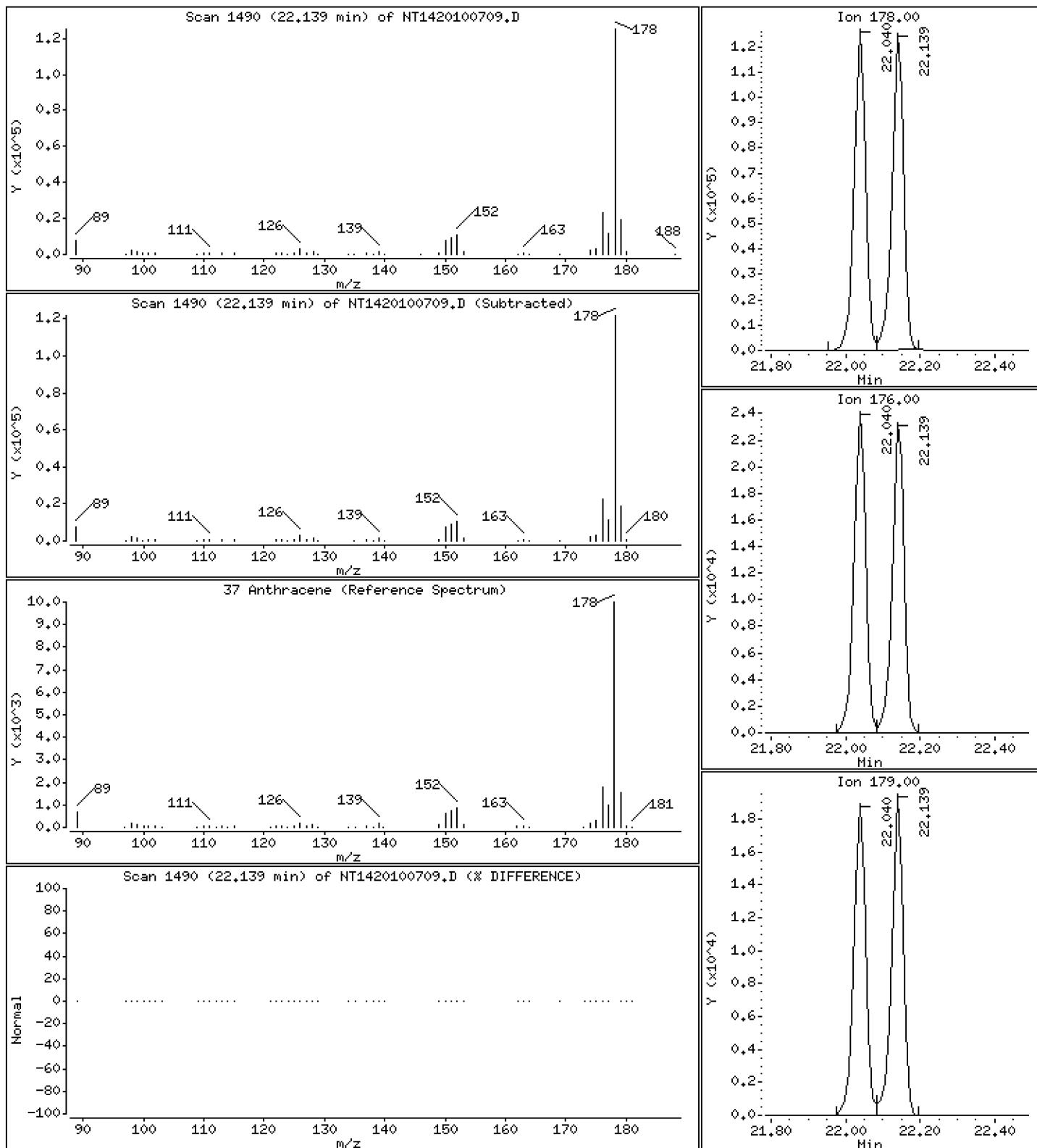
Operator: VTS

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

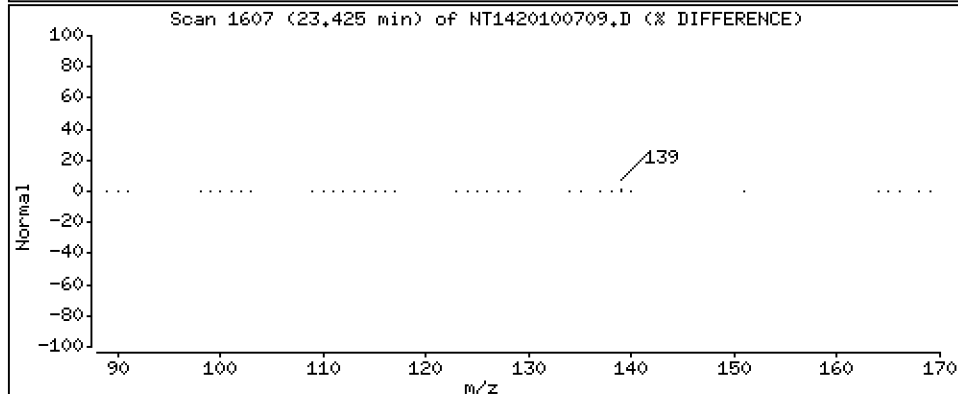
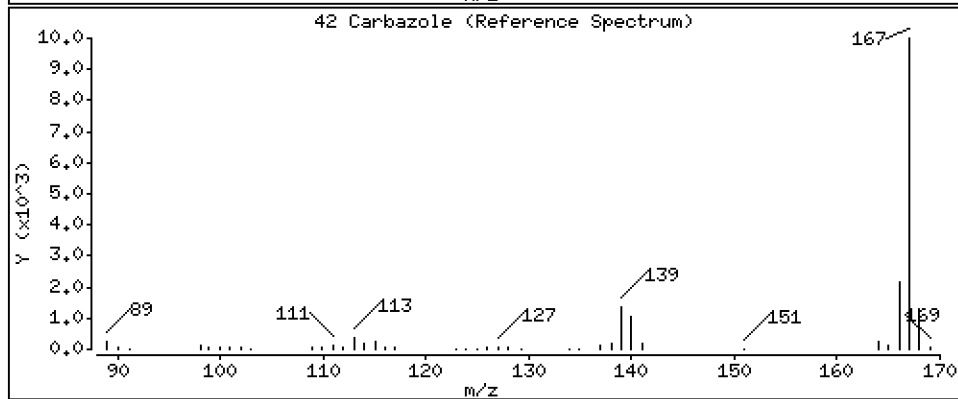
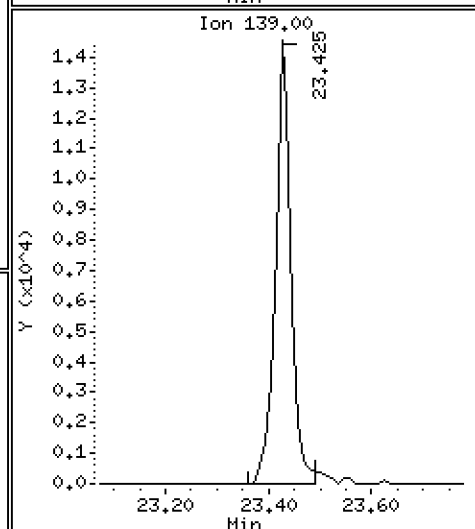
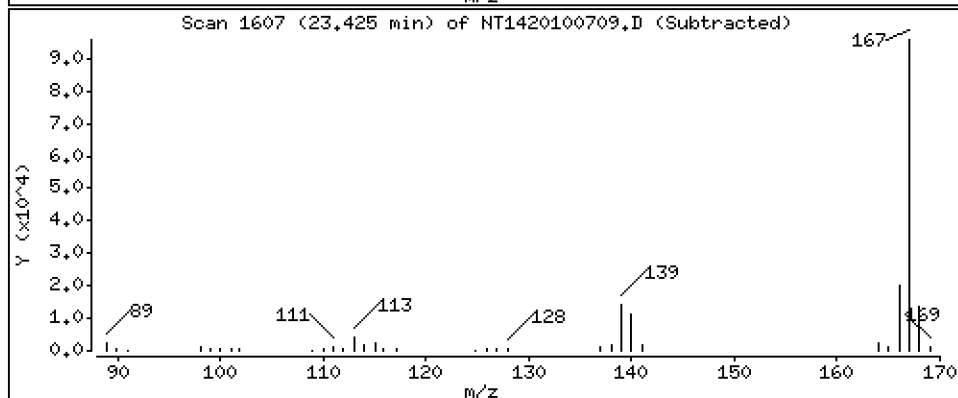
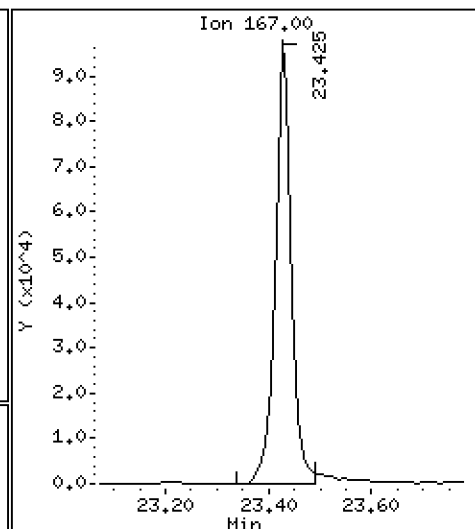
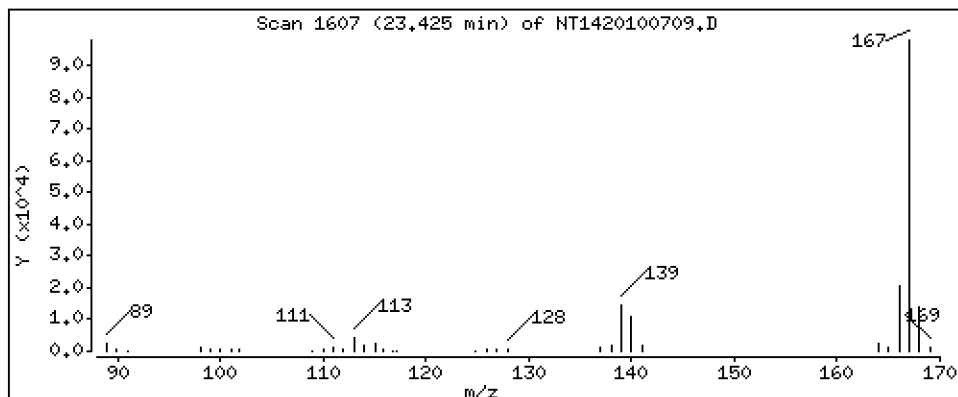
Operator: VTS

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

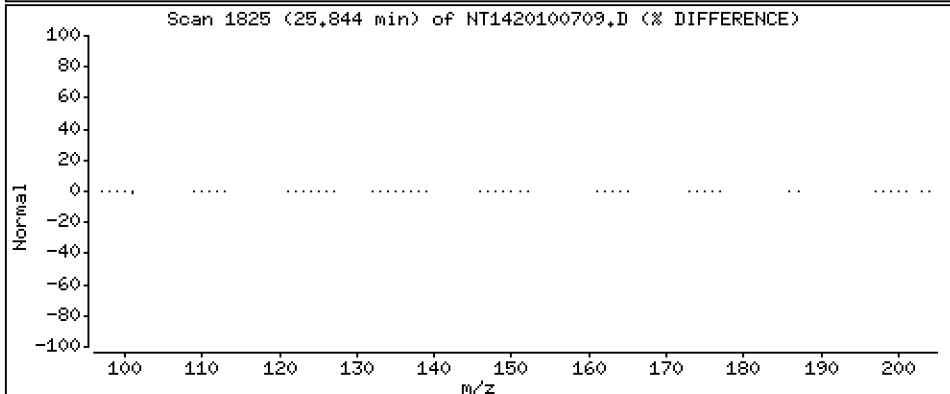
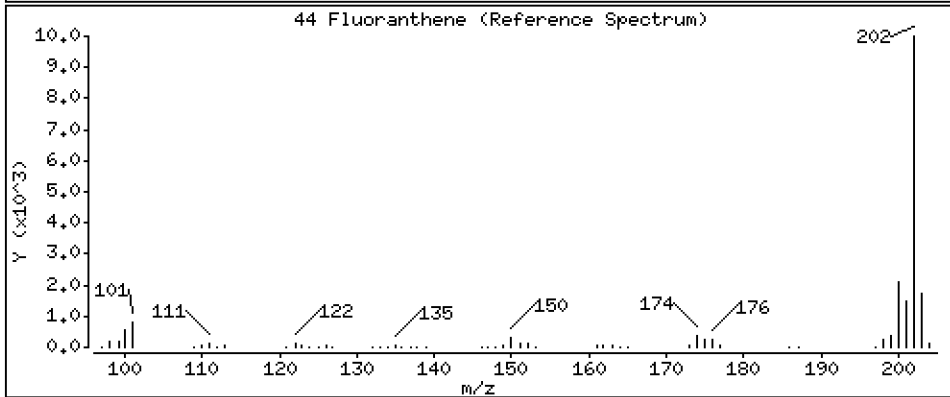
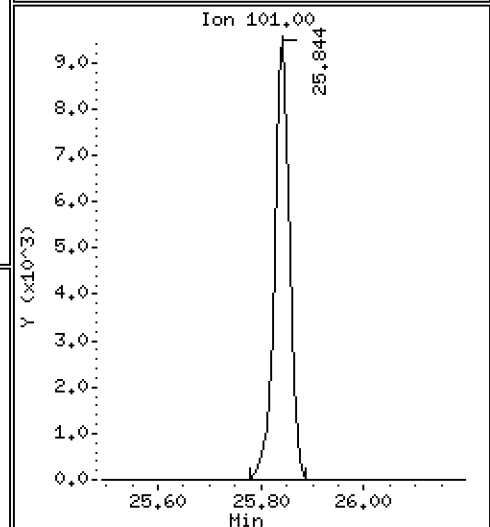
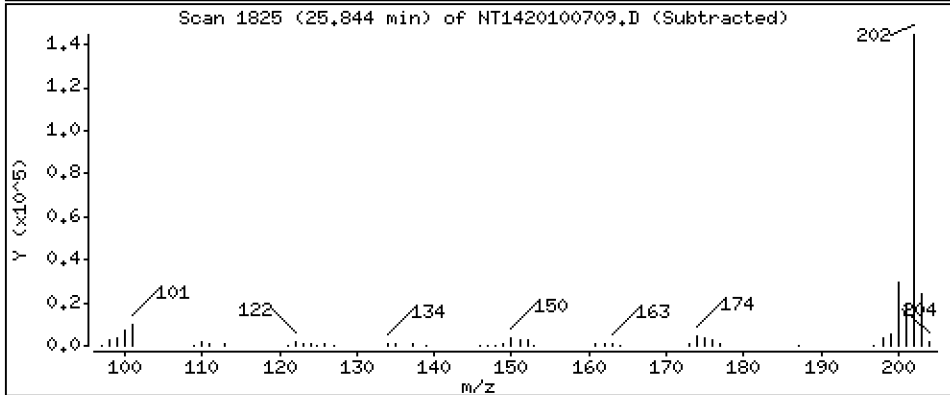
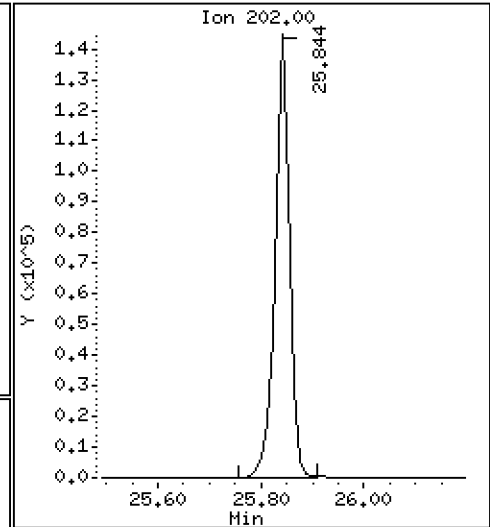
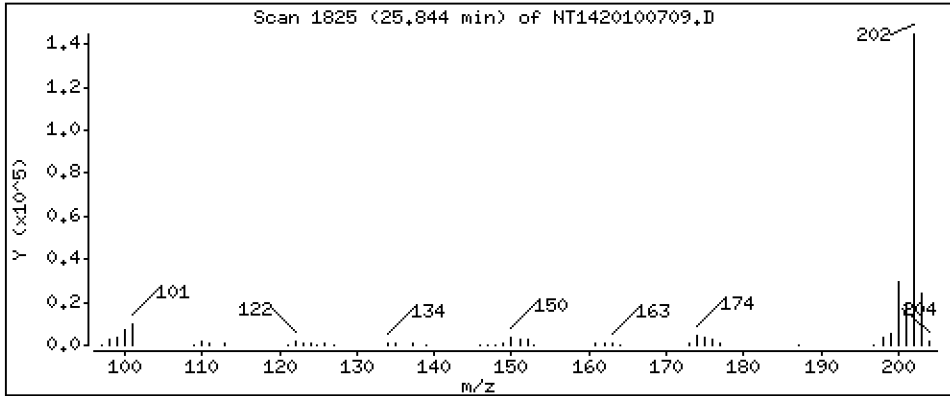
Operator: VTS

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

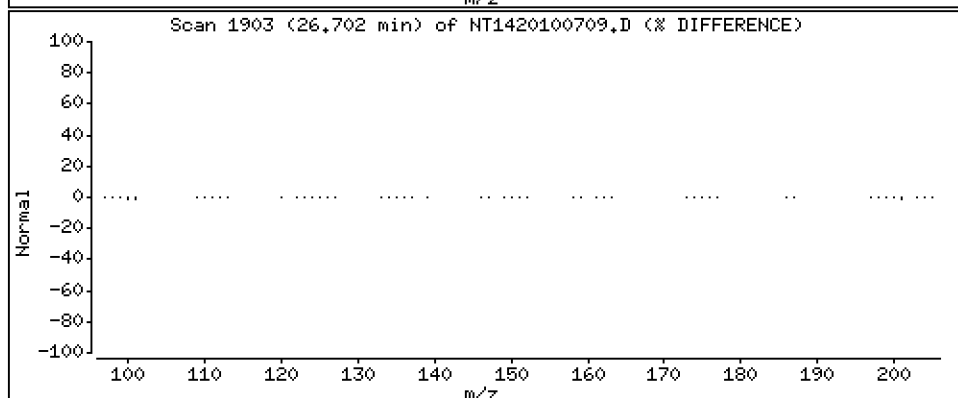
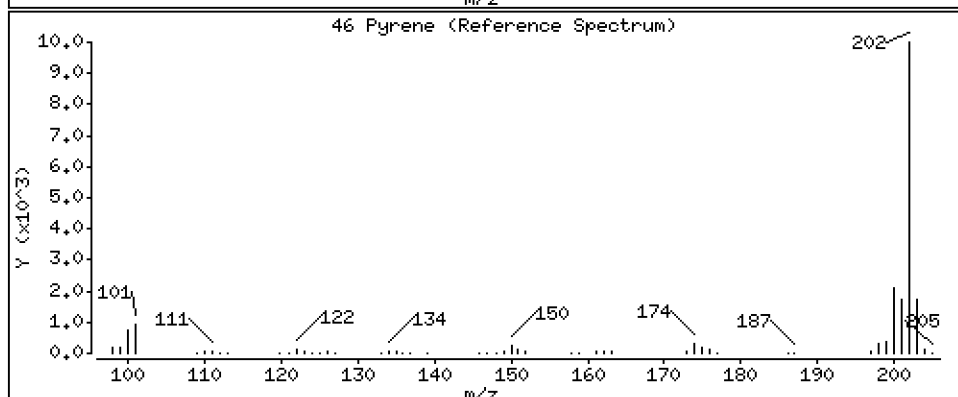
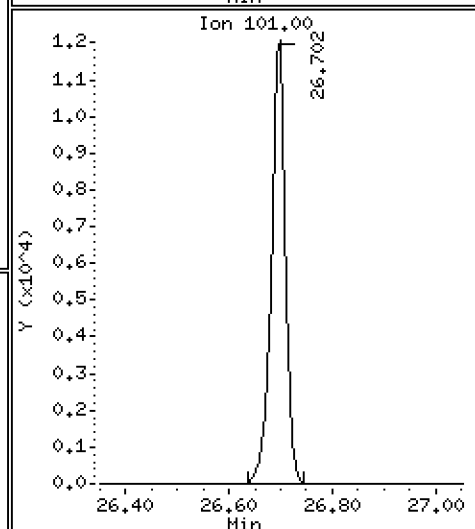
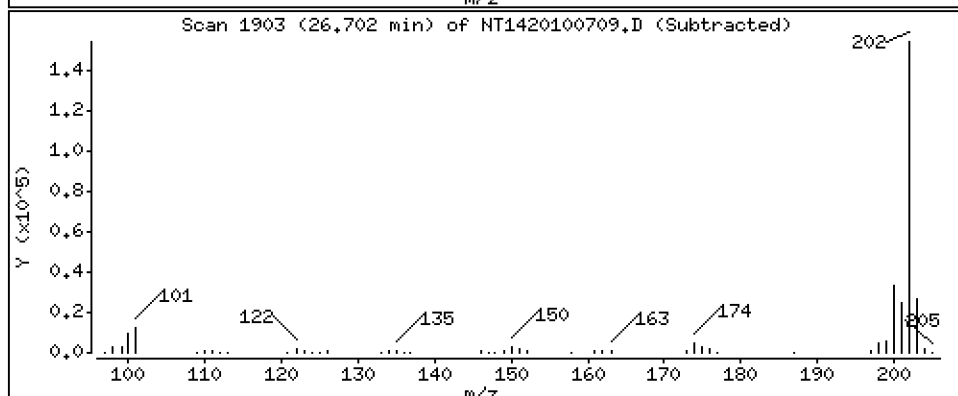
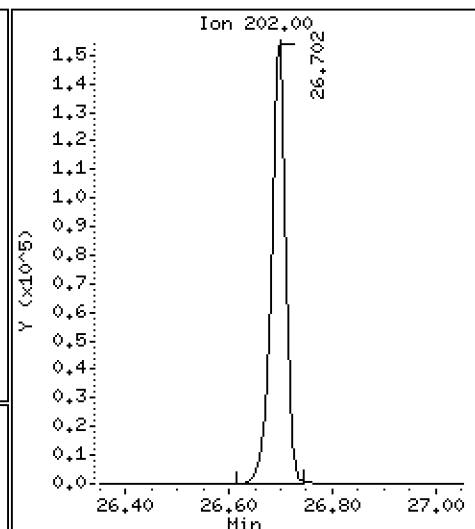
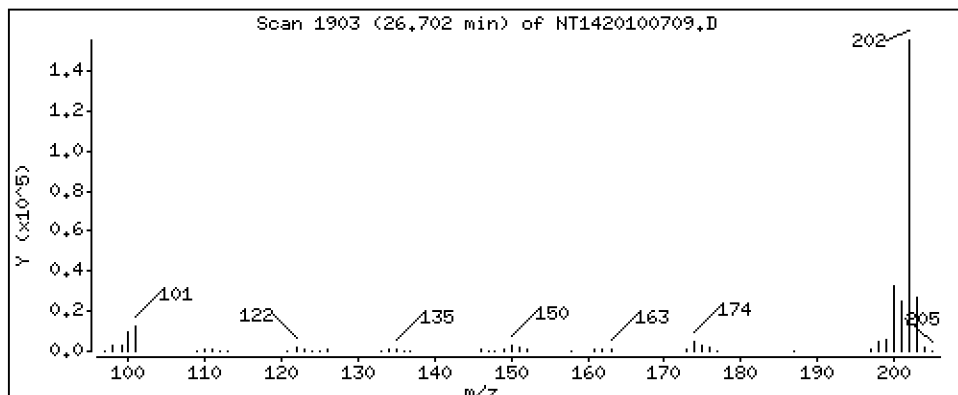
Operator: VTS

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

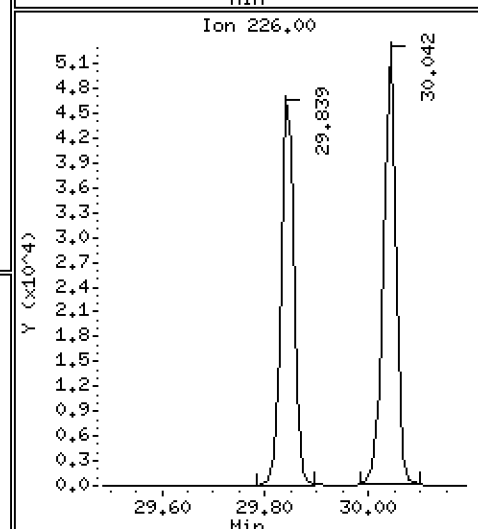
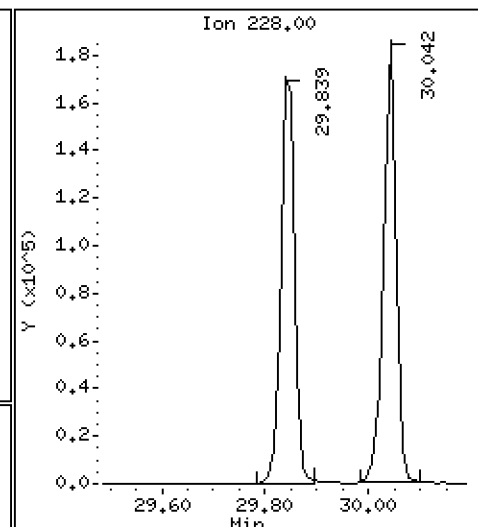
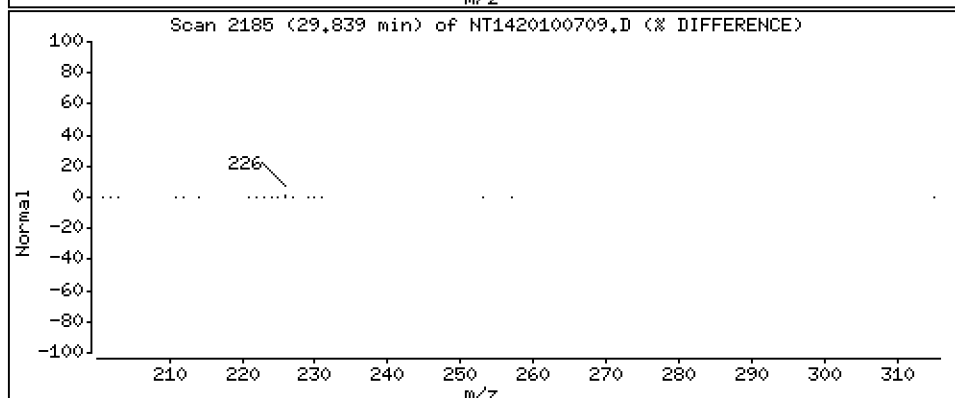
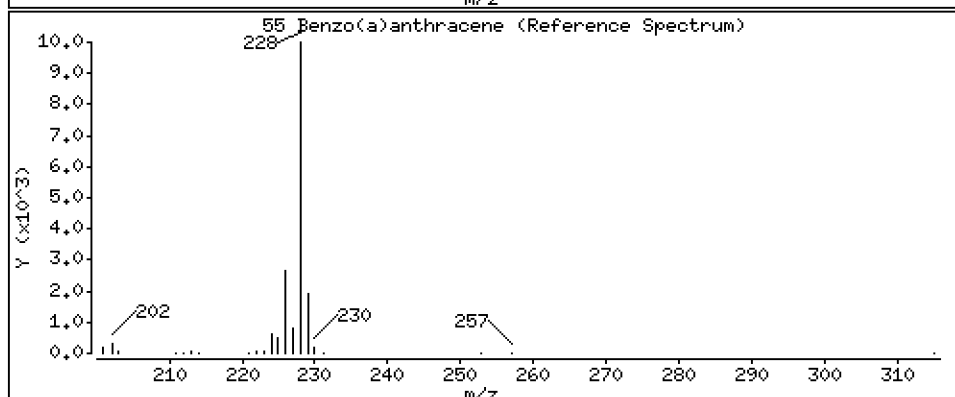
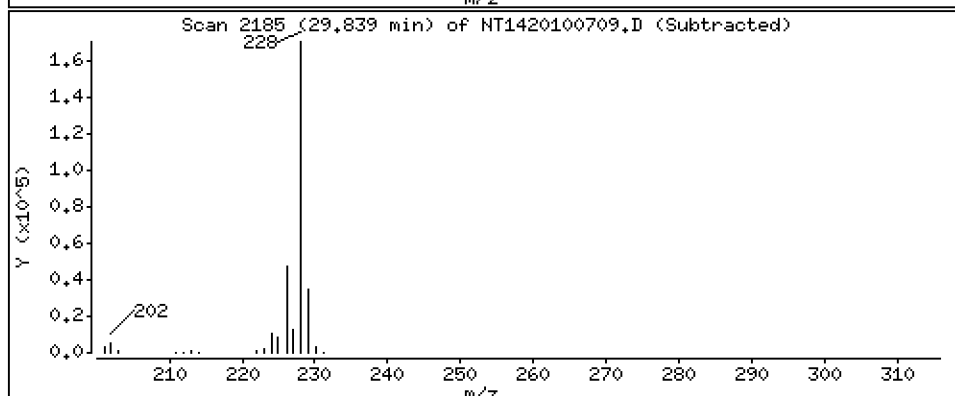
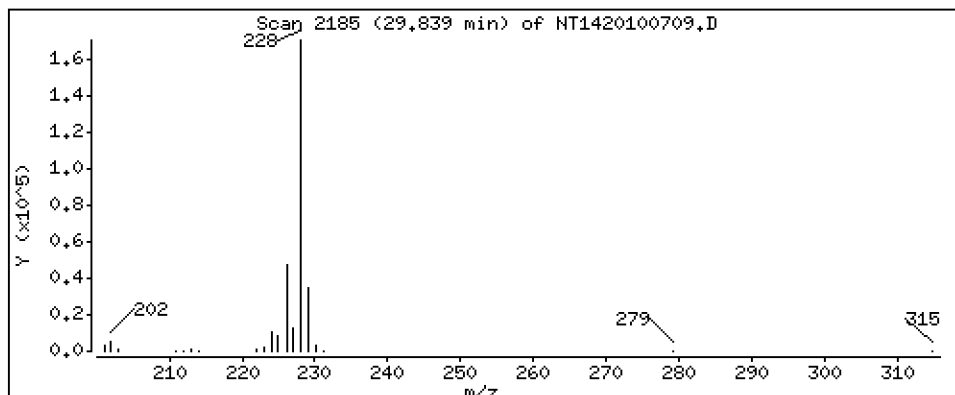
Operator: VTS

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

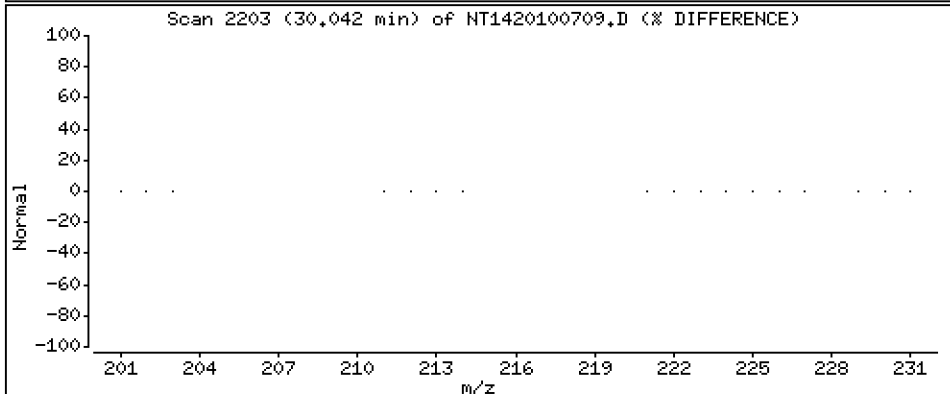
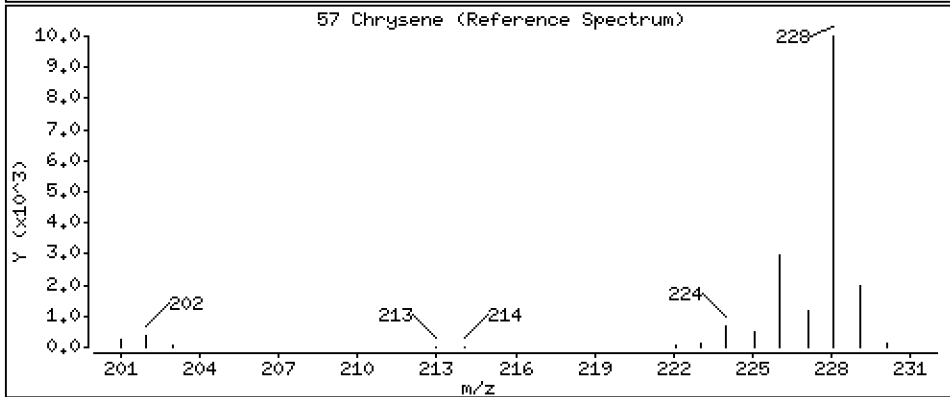
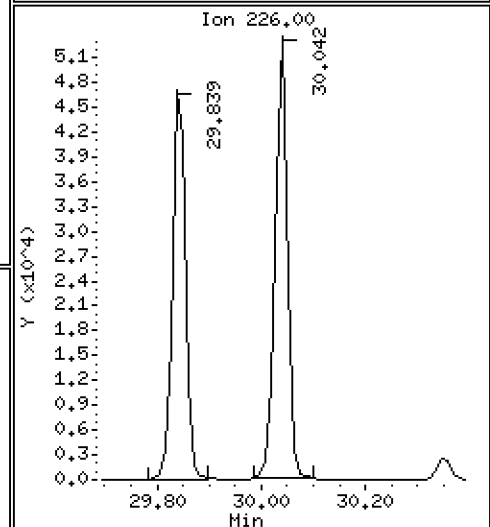
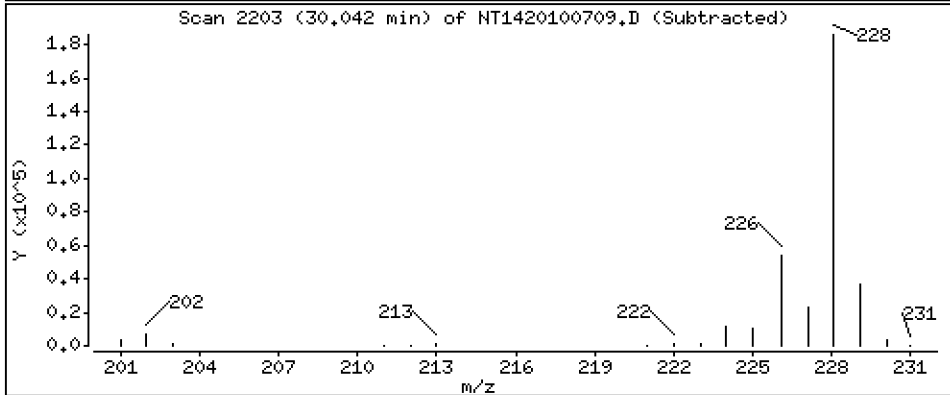
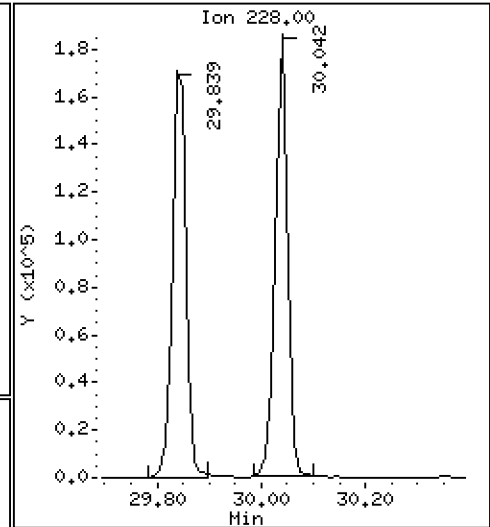
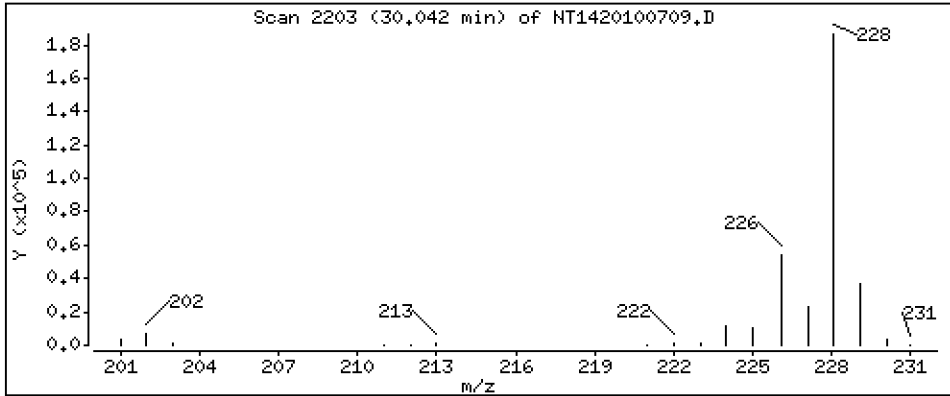
Operator: VTS

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

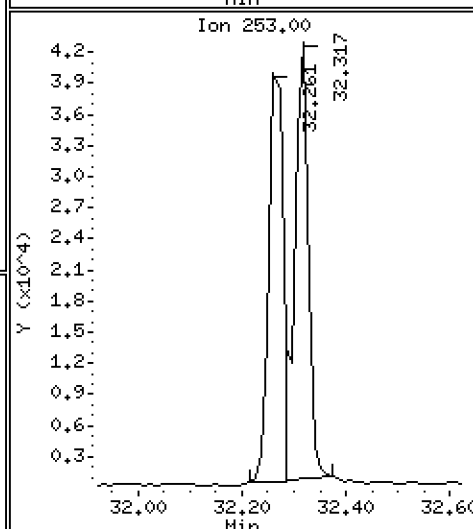
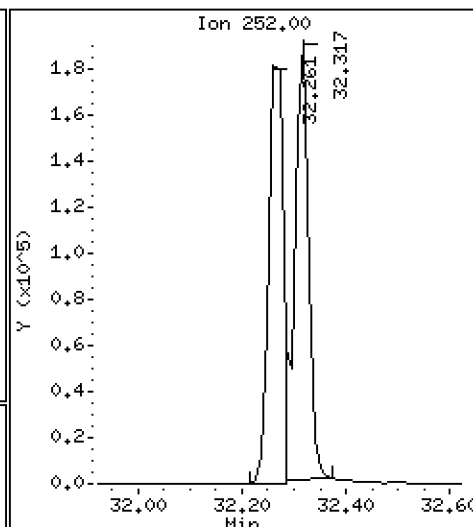
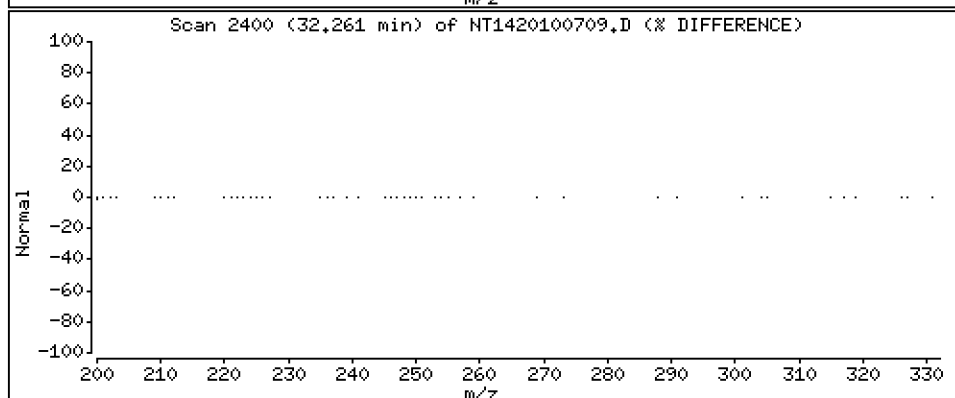
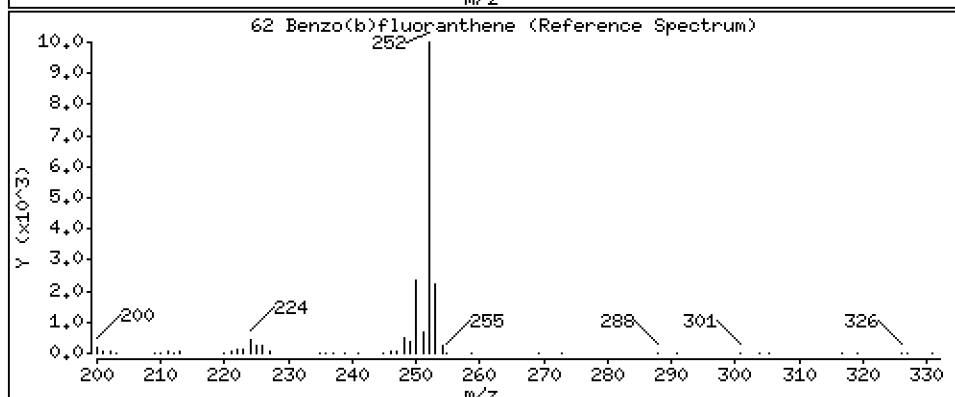
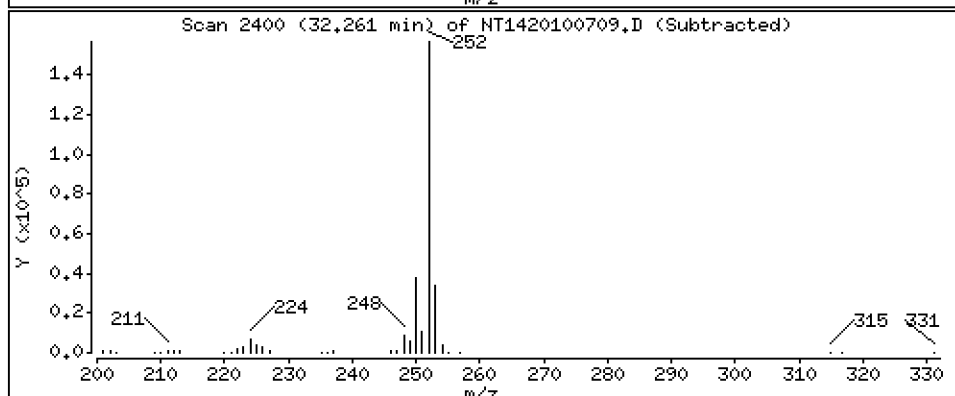
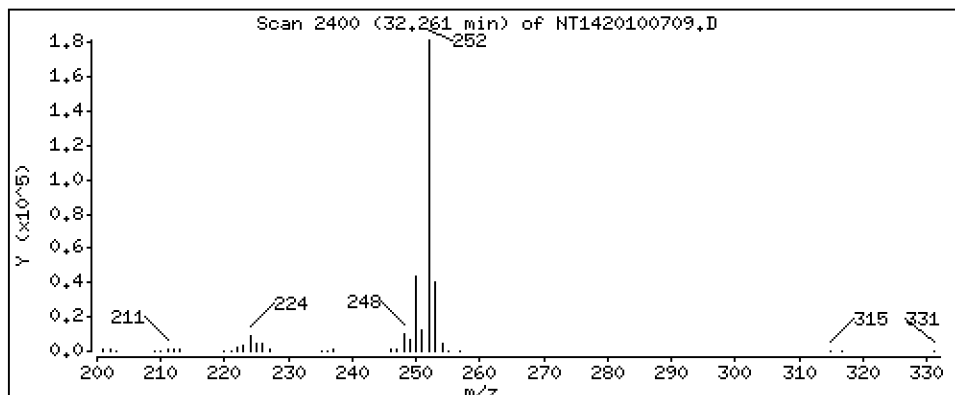
Operator: VTS

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

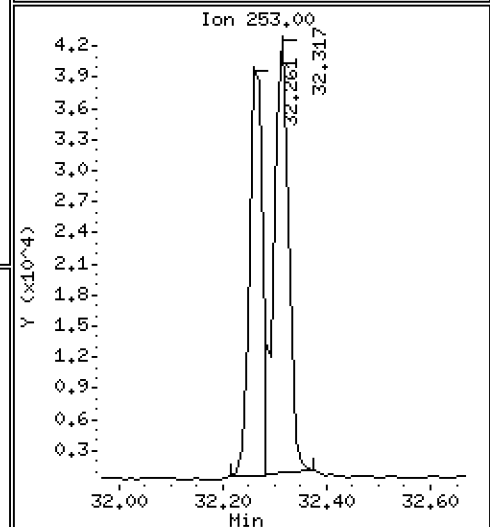
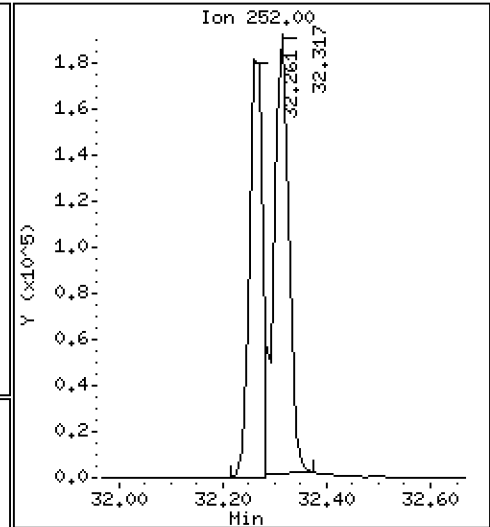
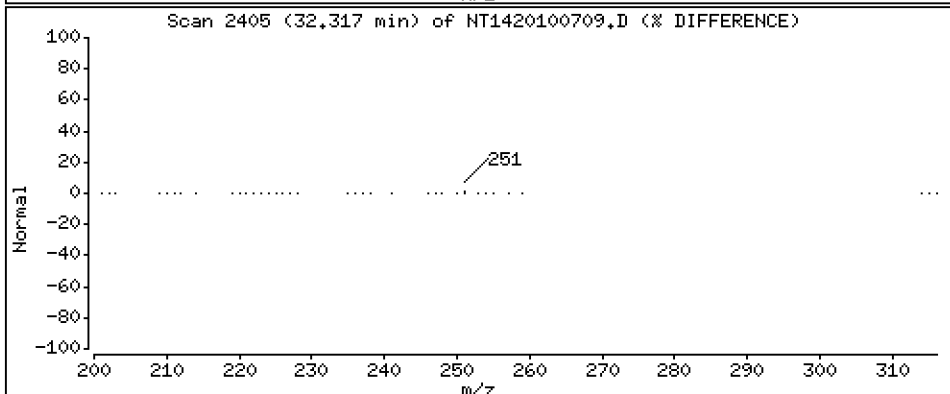
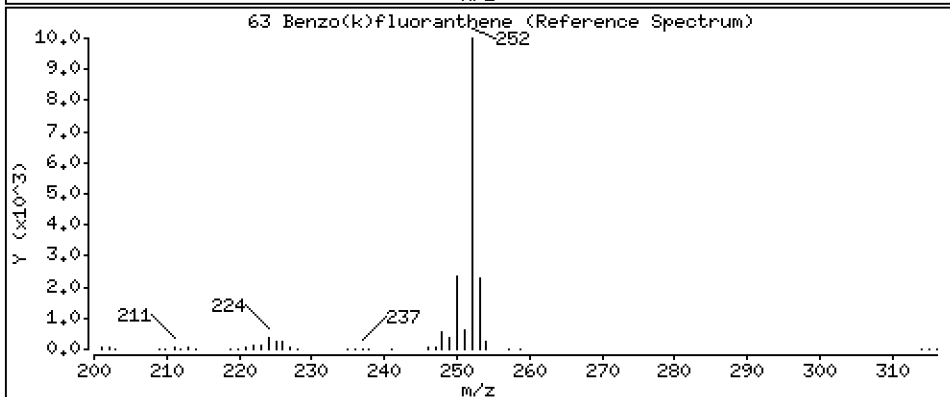
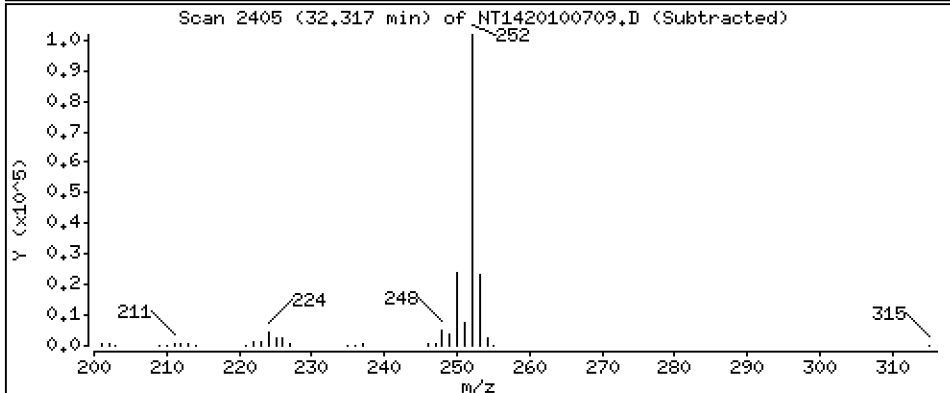
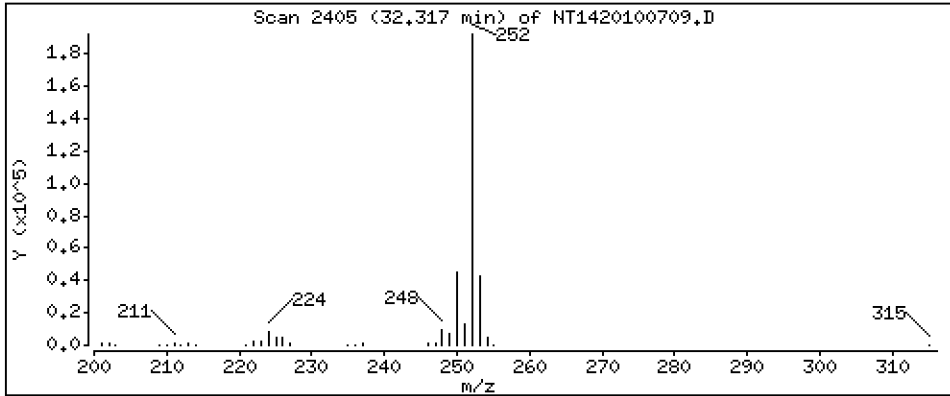
Operator: VTS

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

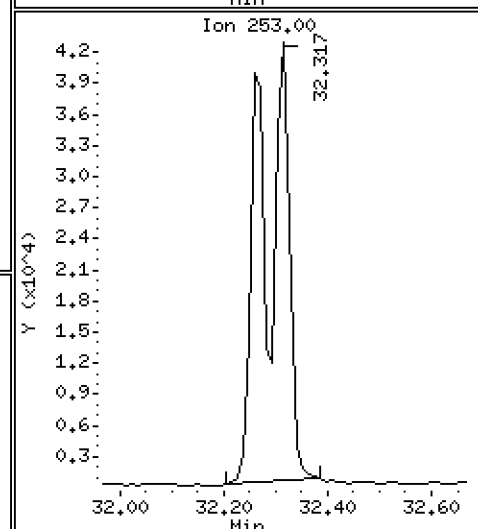
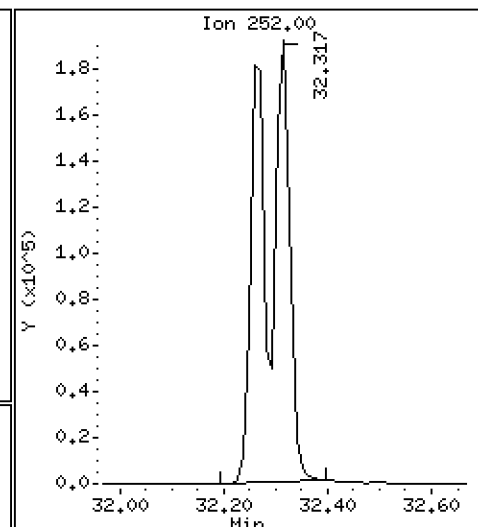
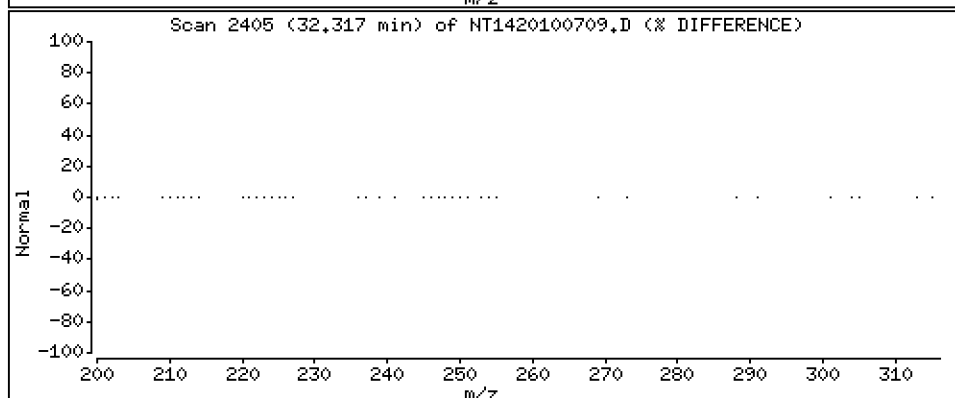
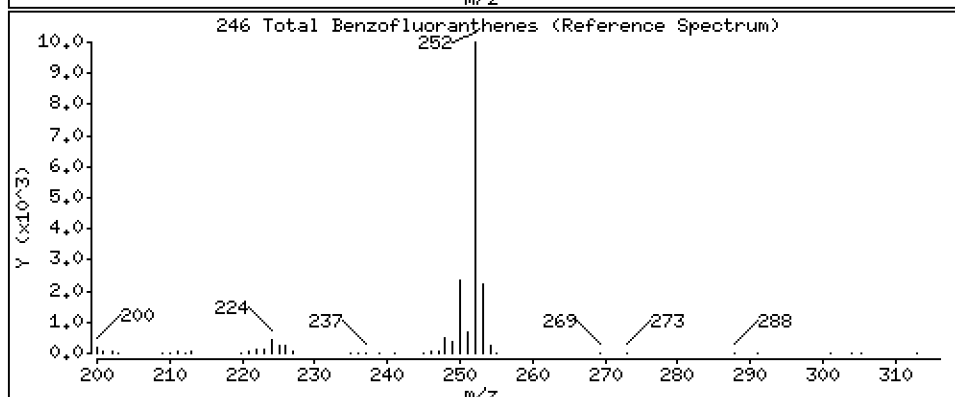
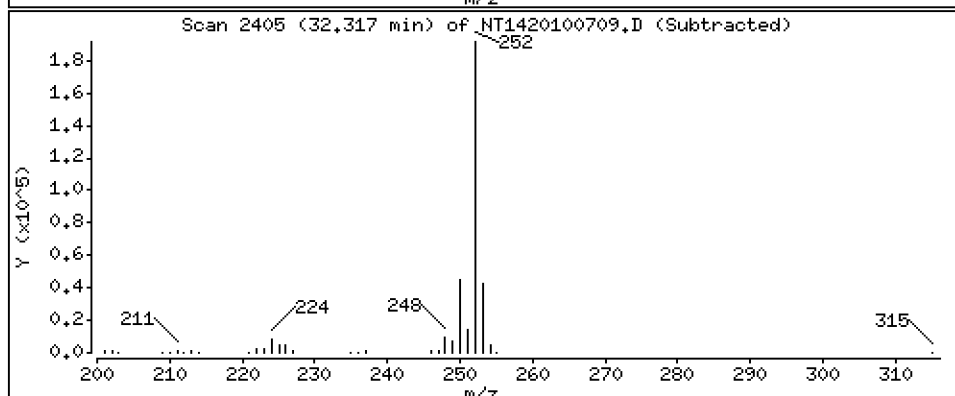
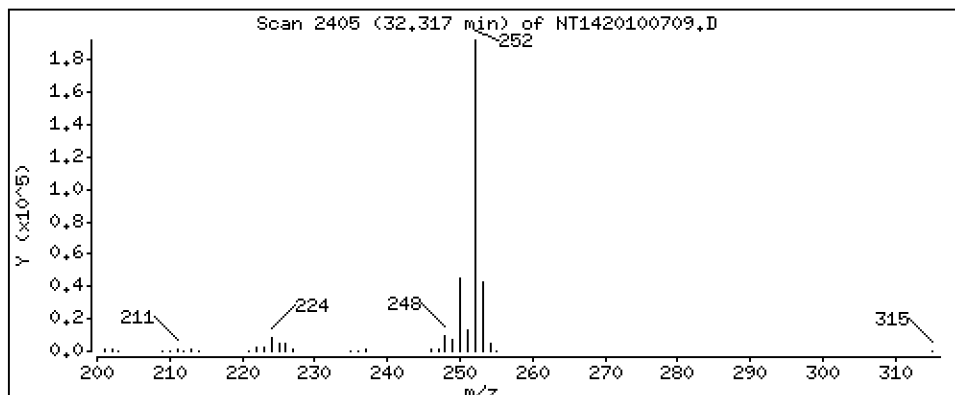
Operator: VTS

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

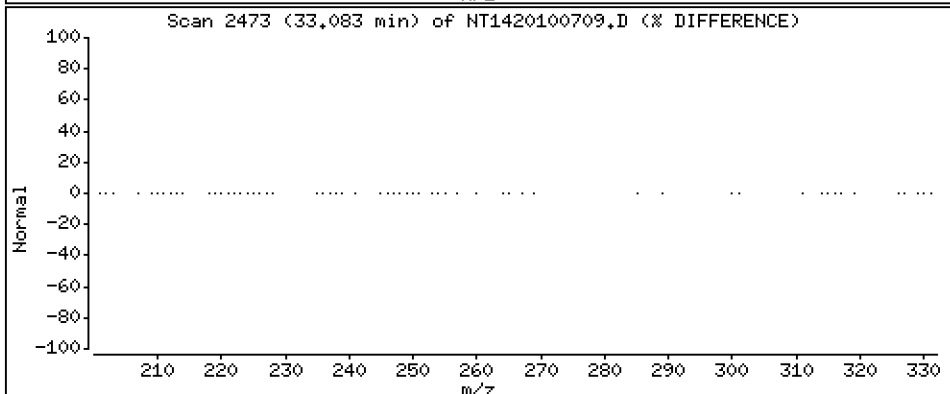
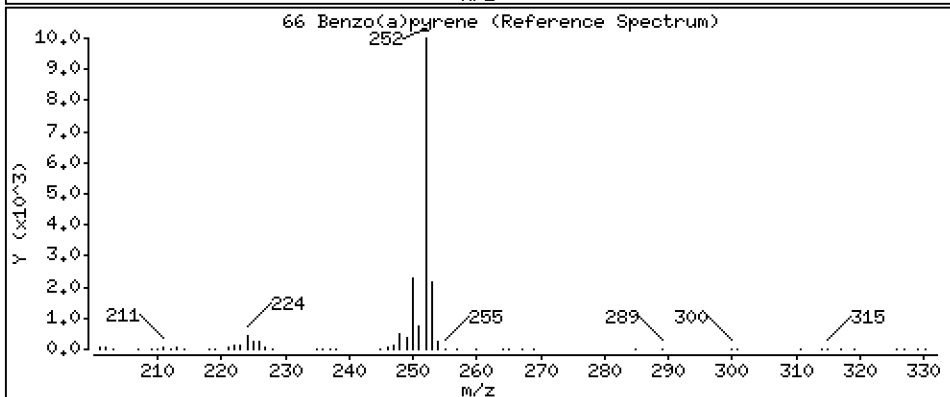
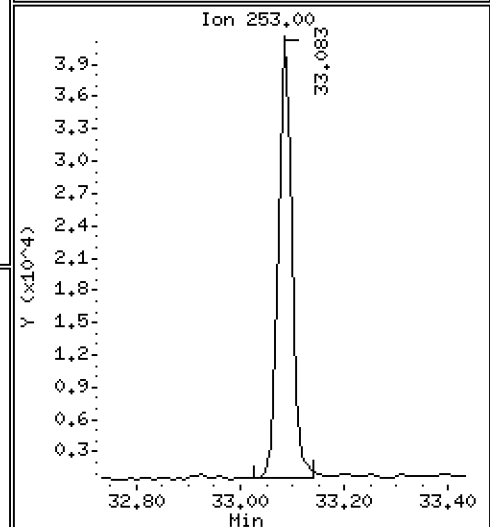
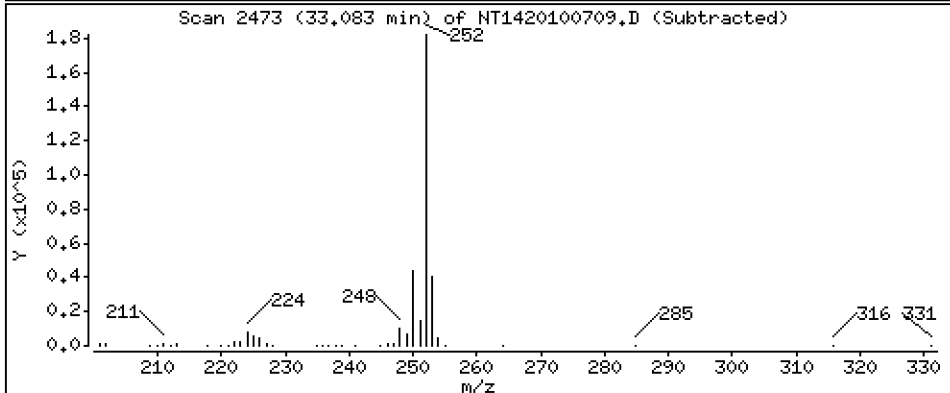
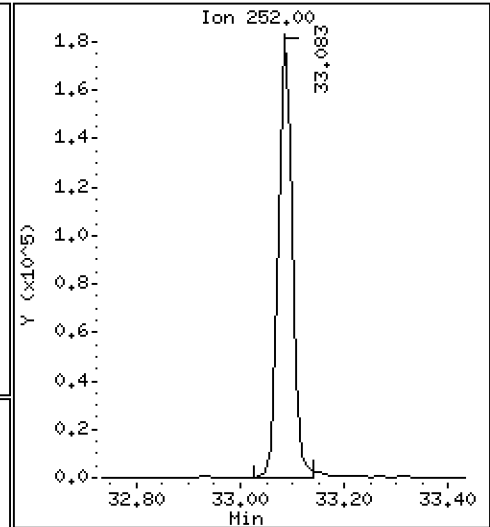
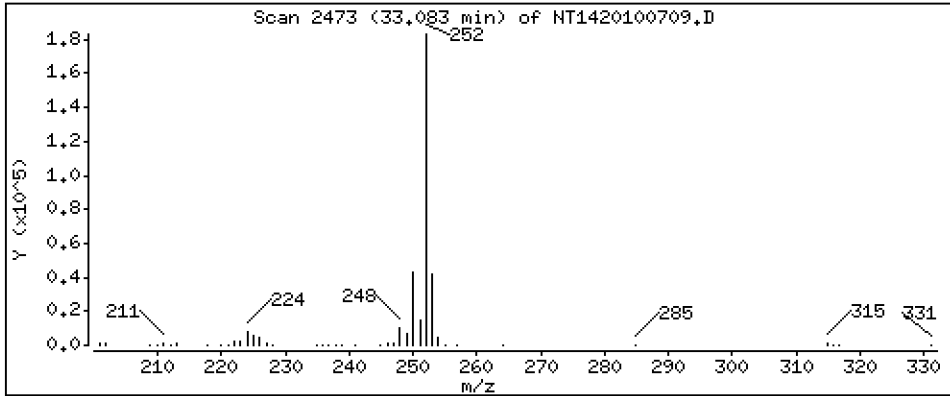
Operator: VTS

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

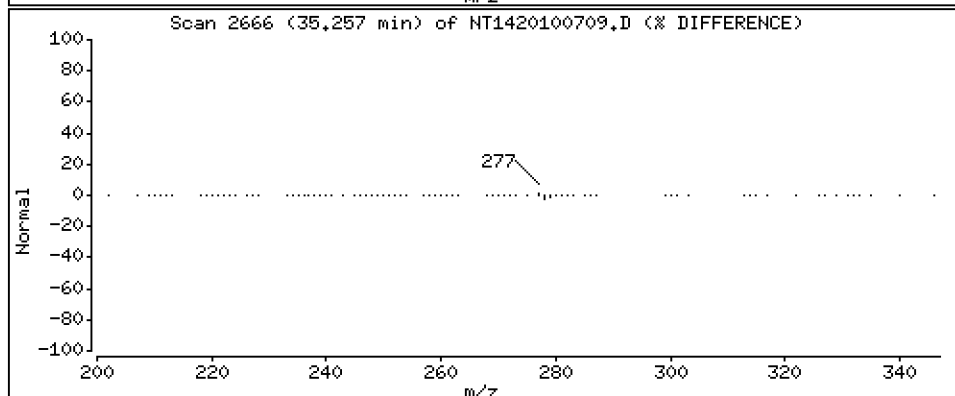
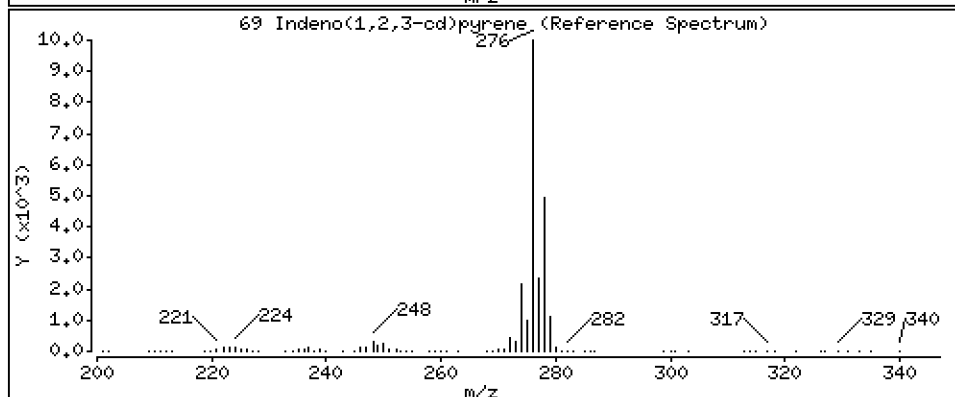
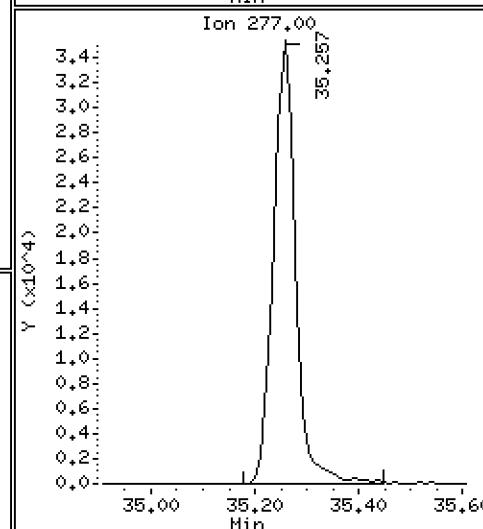
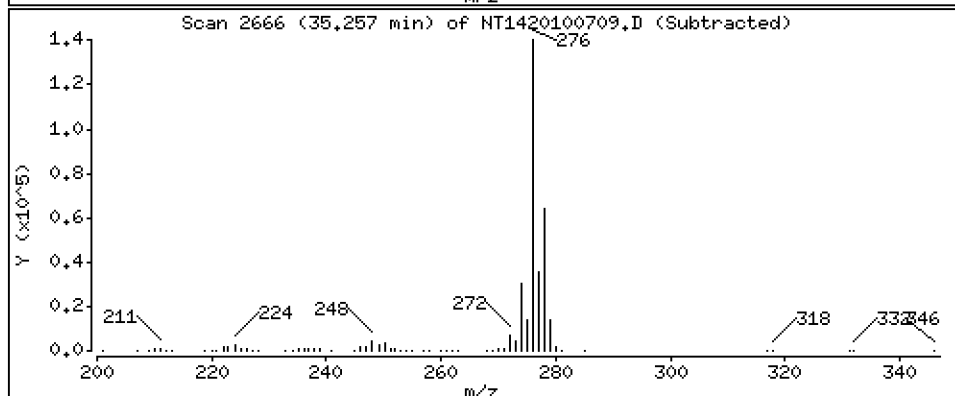
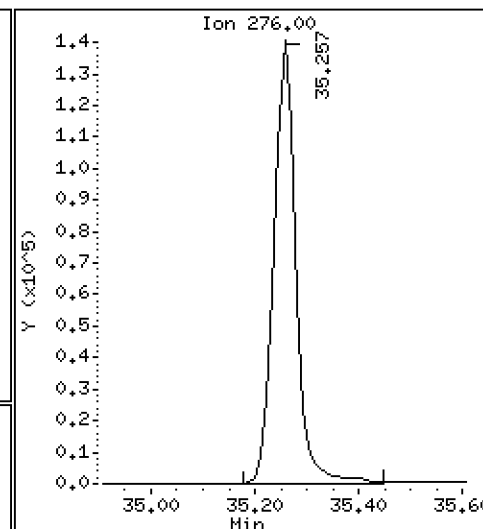
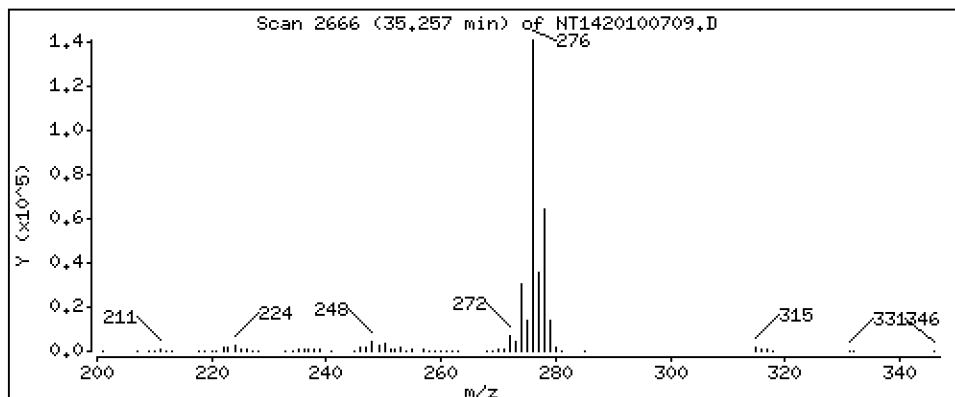
Operator: VTS

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

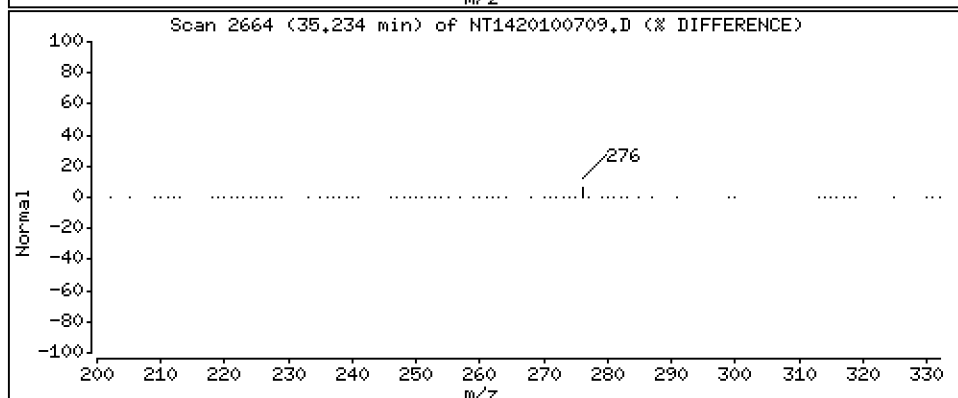
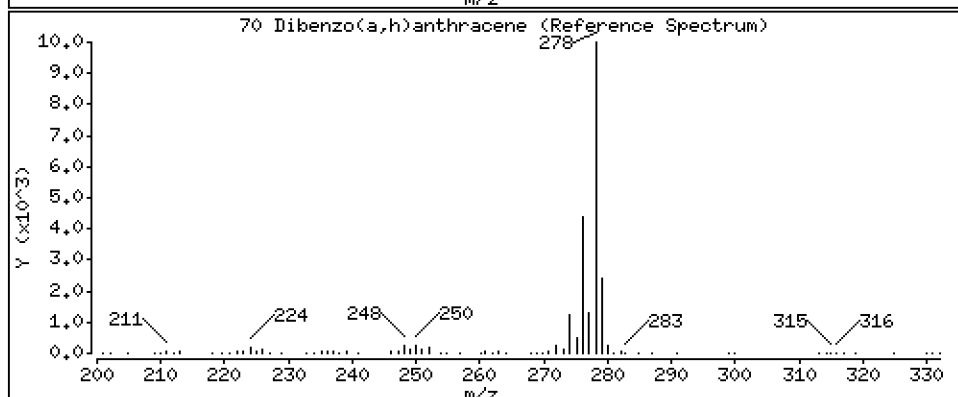
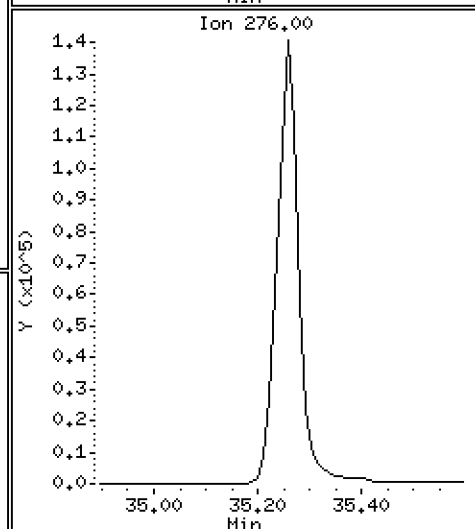
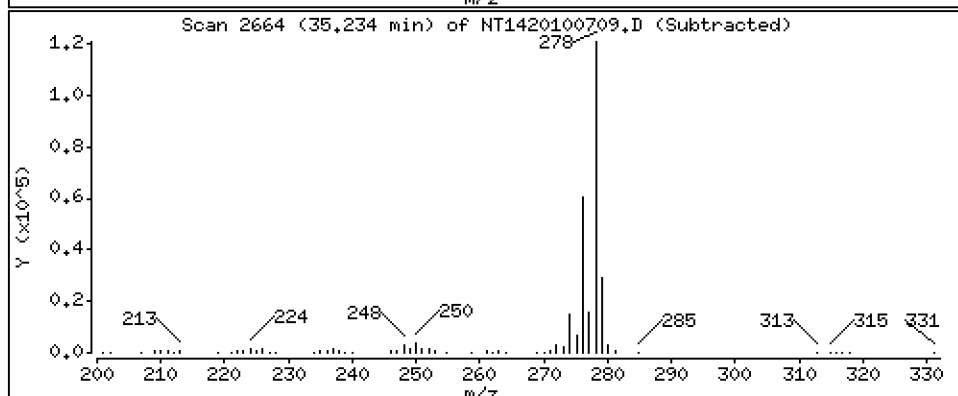
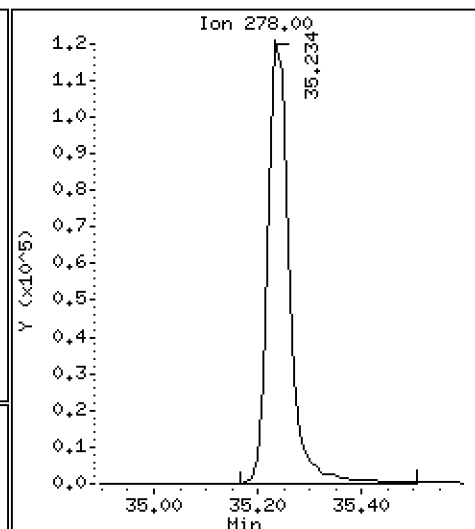
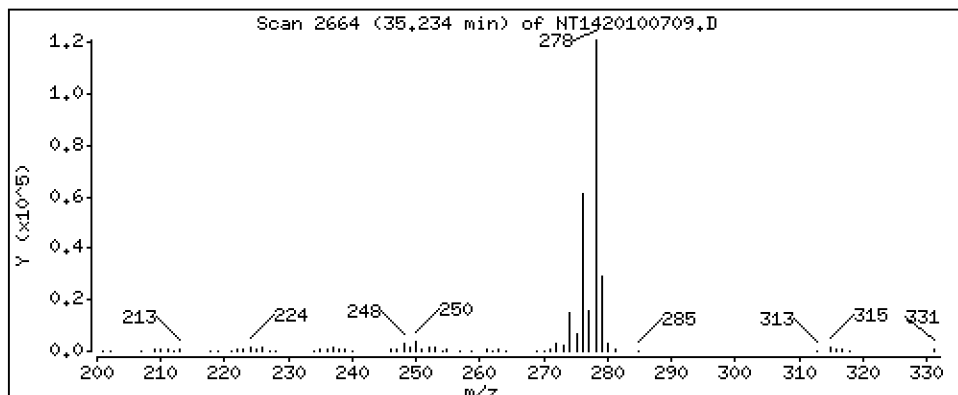
Operator: VTS

Column phase: Rxi-17Sil 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

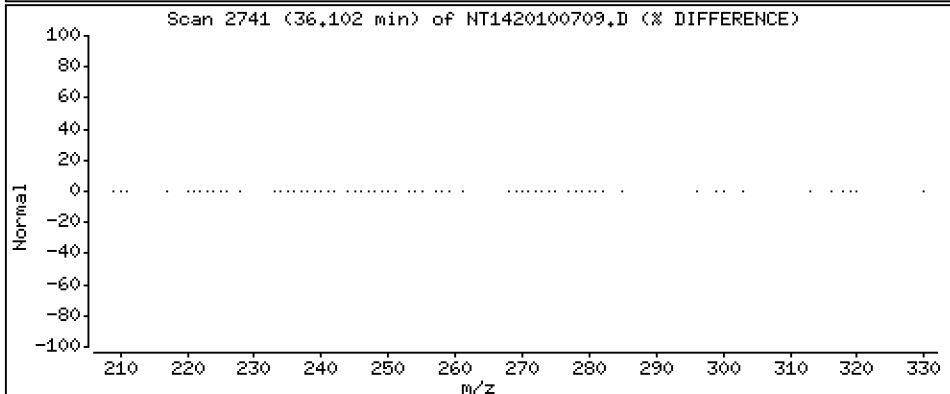
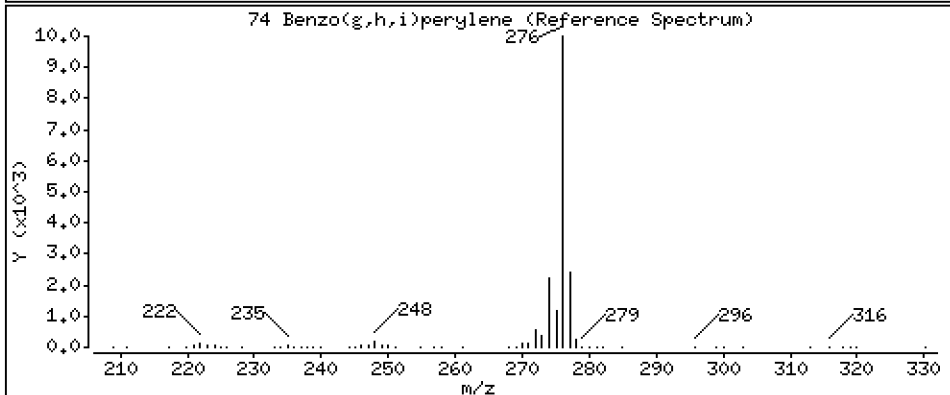
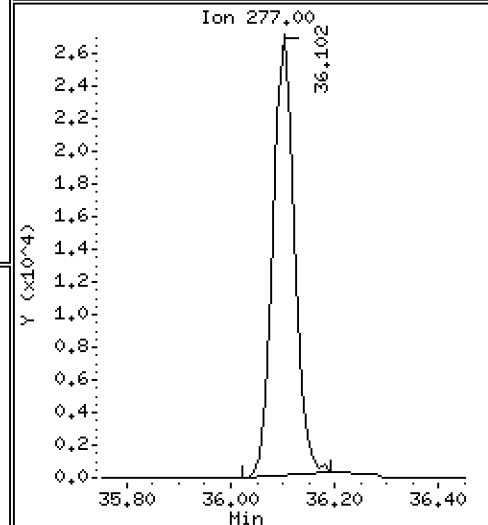
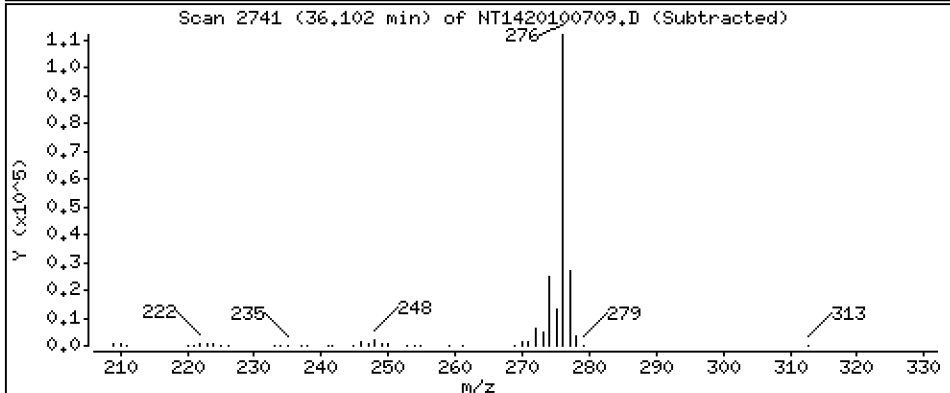
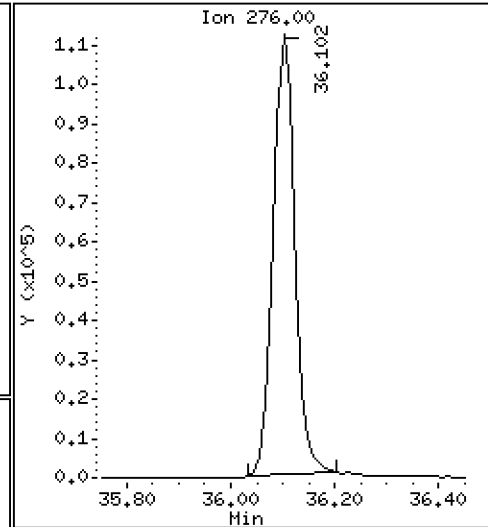
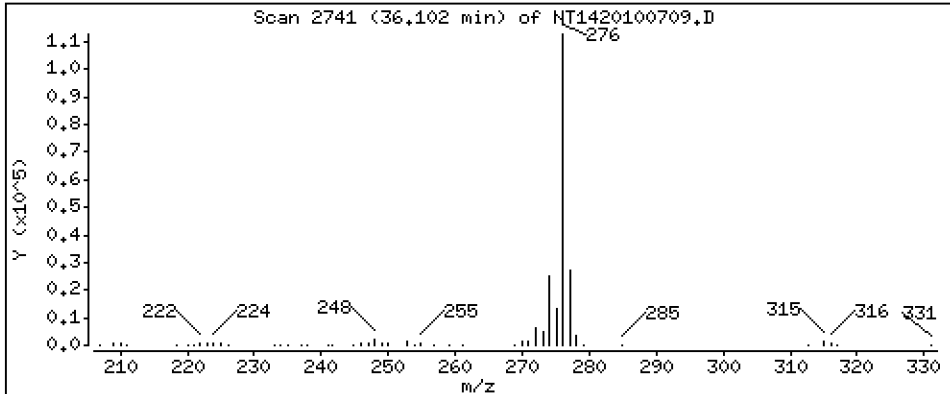
Operator: VTS

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

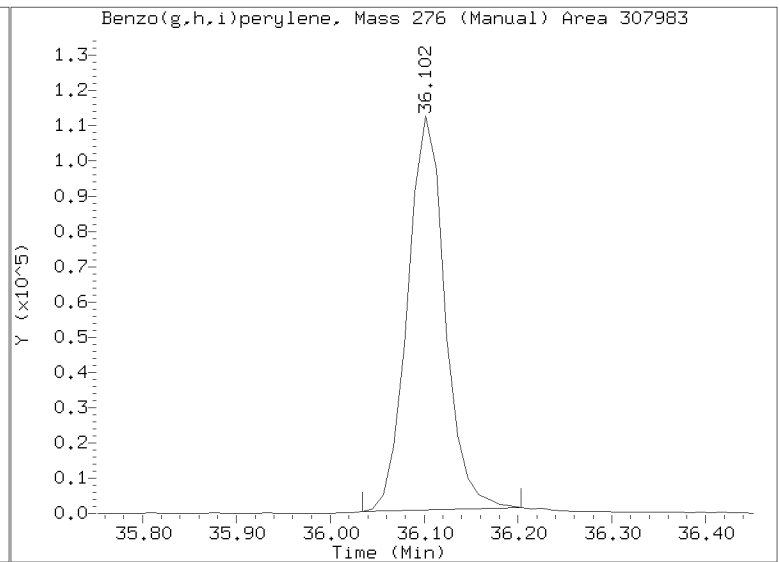
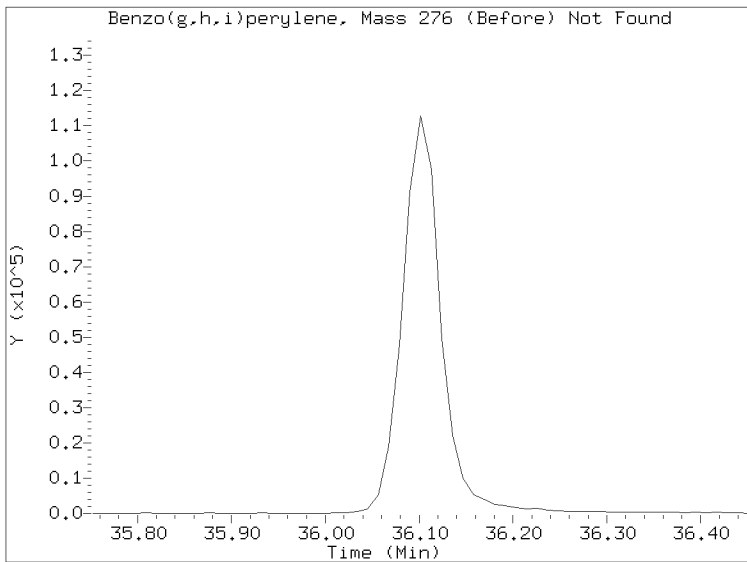
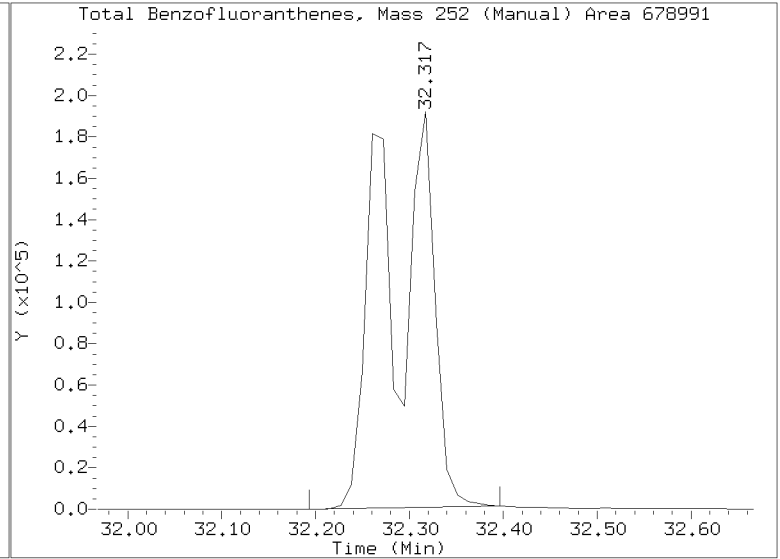
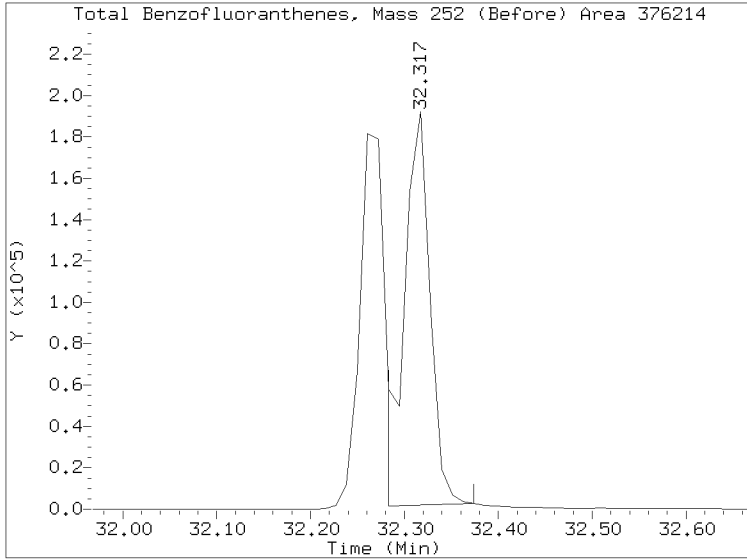
RRT check based on Ccal File: NT1420100711.D

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: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DG00090

Laboratory ID: SIG0417-SCV1

Sequence: SIG0417

Standard ID: I006678

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Tributyltin Ion	1.5460	1.75	12.9	20.00
Tripentyltin	1.5918	1.70	6.6	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt8.1\20200730.6\MS20073008.D
Date: 30-JUL-2020 15:12

Client ID:

Sample Info: SCV200730

Purge Volume: 100.0

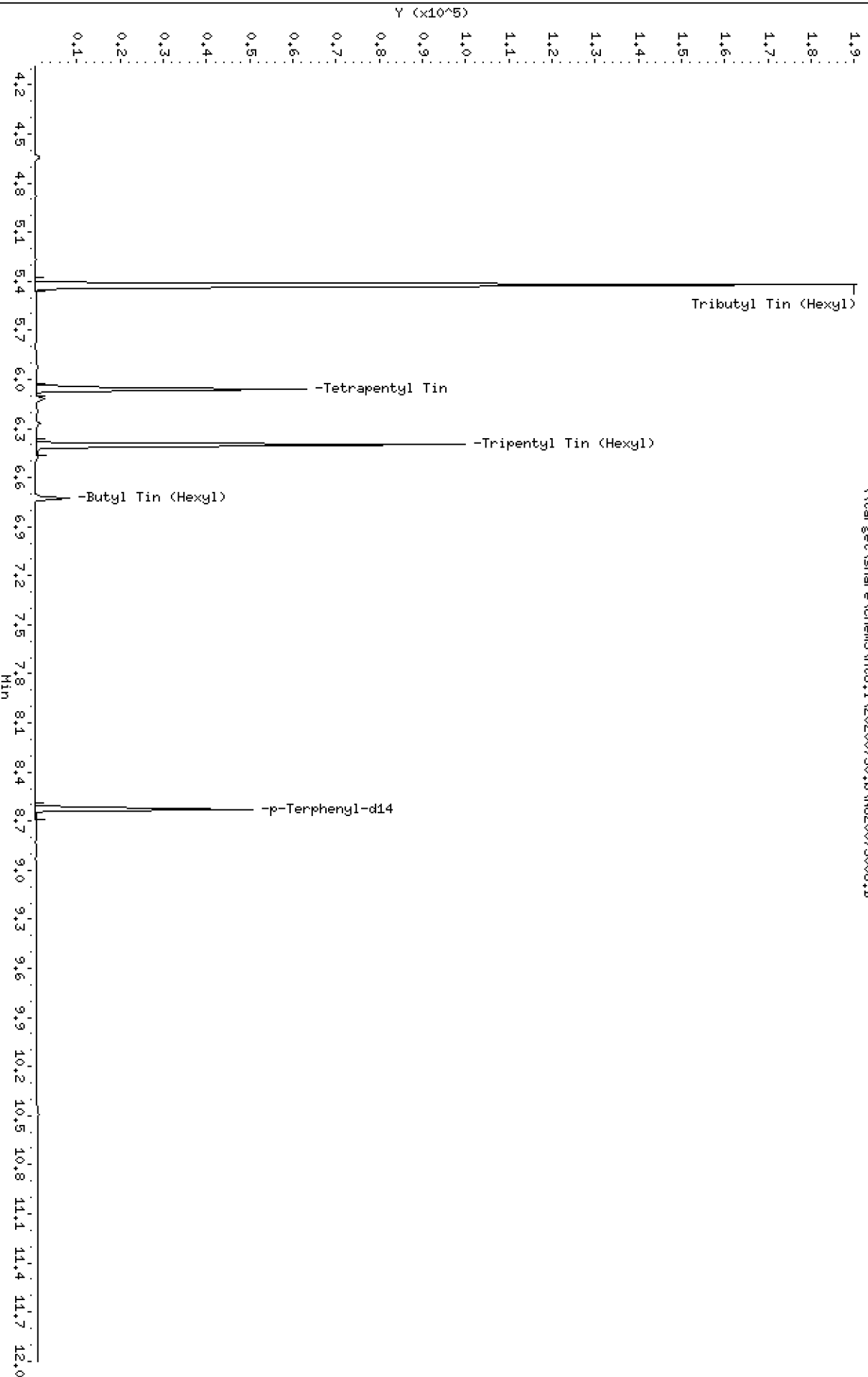
Column phase: ZB-5msi

Instrument: nt8.1

Operator: JZ

Column diameter: 0.25

\\target\share\chem3\nt8.1\20200730.6\MS20073008.D



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100,0

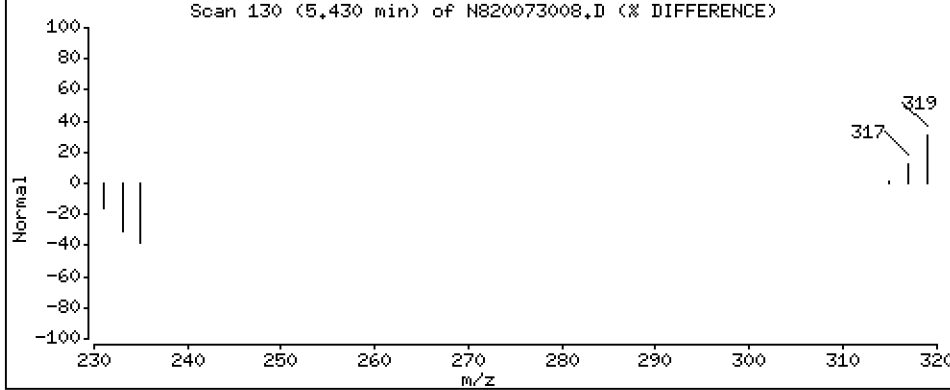
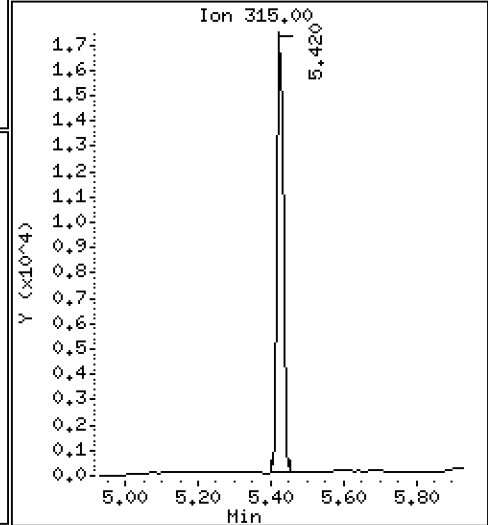
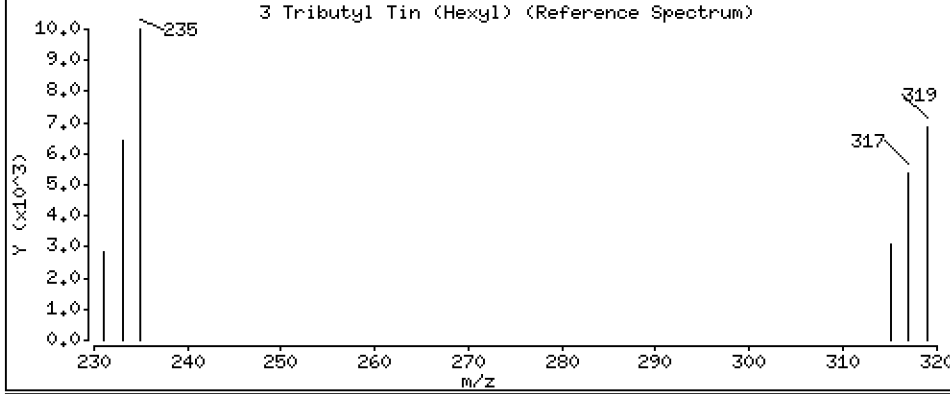
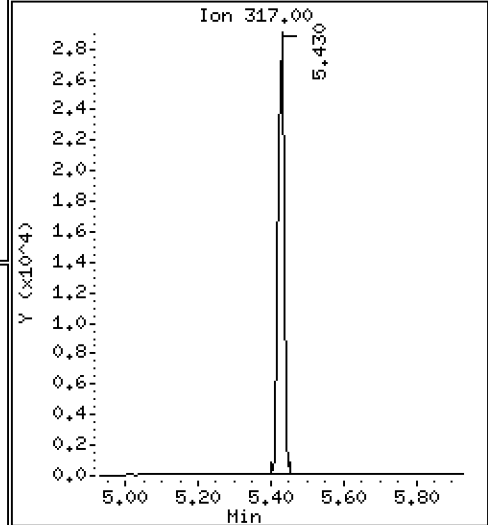
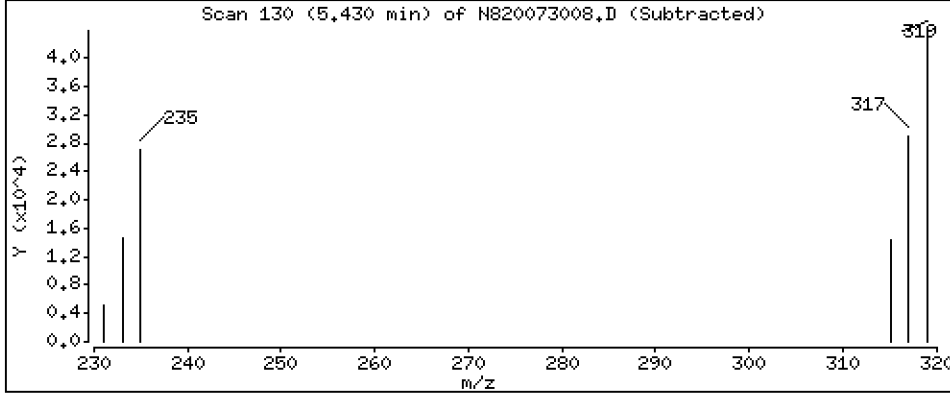
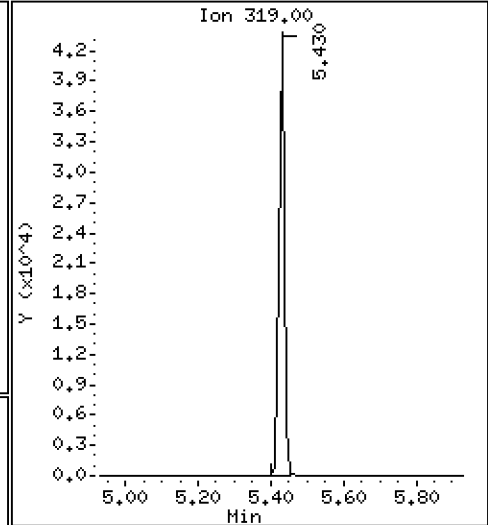
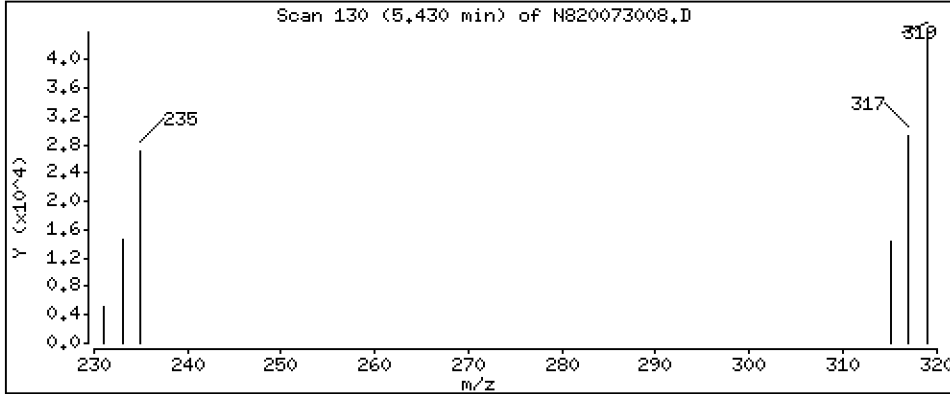
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0,25

3 Tributyl Tin (Hexyl)

Concentration: 11,29 ug/L



Date : 30-JUL-2020 15:12

Client ID:

Instrument: nt8.i

Sample Info: SCV200730

Purge Volume: 100.0

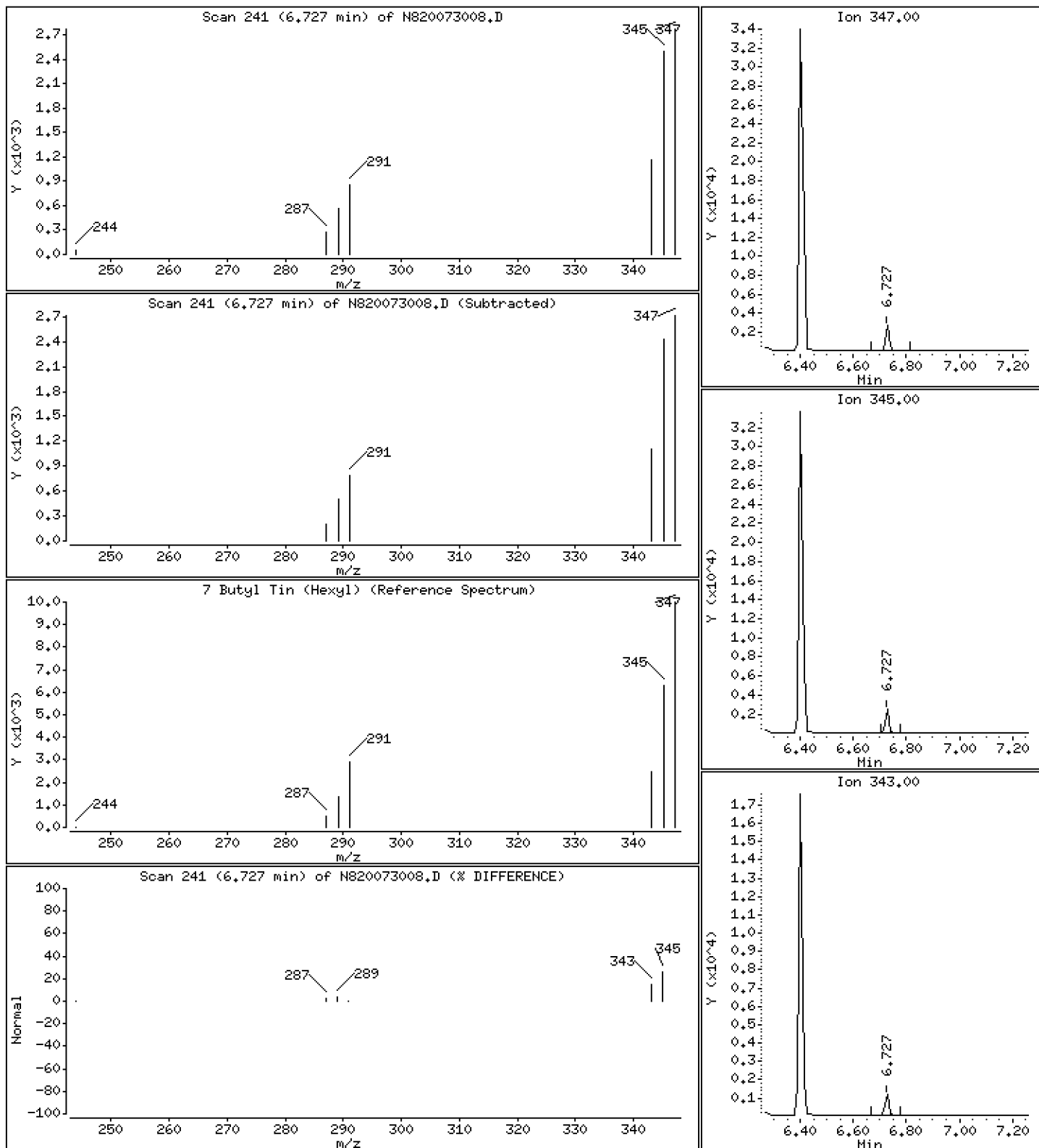
Operator: JZ

Column phase: ZB-5msi

Column diameter: 0.25

7 Butyl Tin (Hexyl)

Concentration: 0.6231 ug/L



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20200730.b\N820073008.D
 Lab Smp Id: SIG0417-SCV1
 Inj Date : 30-JUL-2020 15:12
 Operator : JZ Inst ID: nt8.i
 Smp Info : SCV200730
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
 Meth Date : 30-Jul-2020 15:46 jianqing Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 8 QC Sample: LCS
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Concentration Formula: Amt * DF * (1000*Vt)/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.50000	Final Extract Volume (mL)
Vo	100.000	Volume Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ug/mL)	FINAL (ug/L)
\$ 1 Tripropyl Tin (Hexyl)	291							
2 Tetrabutyl Tin	289							
3 Tributyl Tin (Hexyl)	319		5.430	5.430	(0.896)	43789	2.25868	11.29
* 4 Tetrapentyl Tin	333		6.062	6.061	(1.000)	61229	2.00000	
5 Dibutyl Tin (Hexyl)	347							
\$ 6 Tripentyl Tin (Hexyl)	347		6.400	6.400	(0.742)	35117	2.13224	10.66
7 Butyl Tin (Hexyl)	347		6.727	6.763	(0.780)	2397	0.12463	0.6231
* 8 p-Terphenyl-d14	244		8.626	8.627	(1.000)	47436	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 30-JUL-2020
Lab File ID: N820073008.D Calibration Time: 12:23
Lab Smp Id: SIG0417-SCV1
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: WATER
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20200730.b\TBT200730.m
Misc Info: 20-

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	61229	11.80
8 p-Terphenyl-d14	45248	22624	90496	47436	4.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	6.06	5.56	6.56	6.06	0.00
8 p-Terphenyl-d14	8.63	8.13	9.13	8.63	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 - N820073008.D

Lab ID: SIG0417-SCV1

nt8.i, 20200730.b\TBT200730.m, 30-JUL-2020 15:12

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: N820073003.D

On Column LOD for nt8.i, 20200730.b\TBT200730.m, sedmdl.sub = 0.0100

Exception: Dibutyl Tin (Hexyl) 0.0200
Exception: Butyl Tin (Hexyl) 0.0200
Exception: Tetra-butyl Tin 0.0200
Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010
Exception: Tripentyl Tin (Hexyl) (Surr) 0.0200

* 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: 20J0385

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,i\20201007,b\NT1420100709.D

Date : 07-OCT-2020 16:45

Client ID:

Sample Info: S100085-SCV1

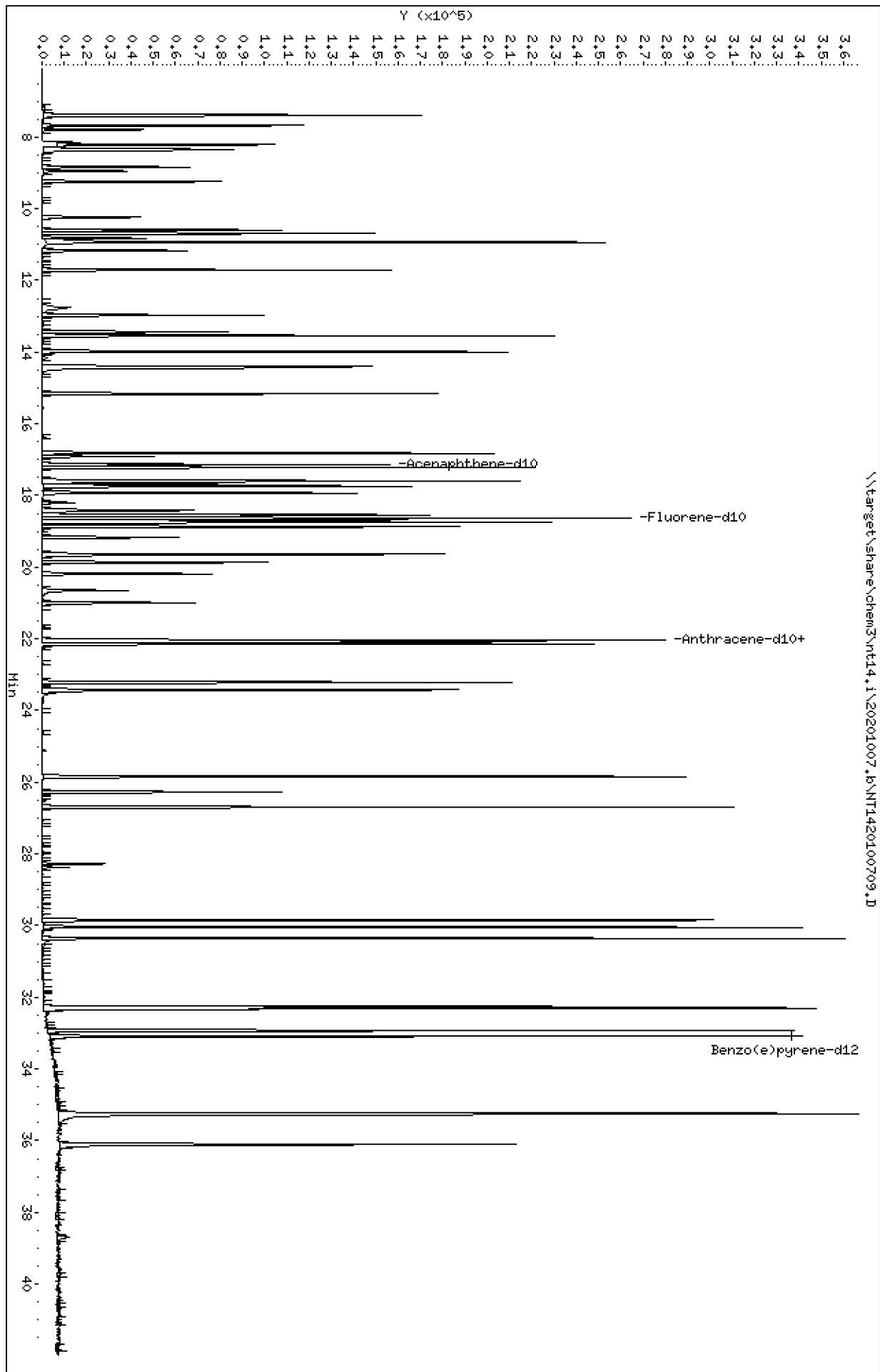
Column phase: Rxi-17S11 MS

Instrument: nt14,i

Operator: VTS

Column diameter: 0.25

\\target\share\chem3\nt14,i\20201007,b\NT1420100709.D



Date : 07-OCT-2020 16:45

Client ID:

Instrument: nt14.i

Sample Info: SIJ0085-SCV1

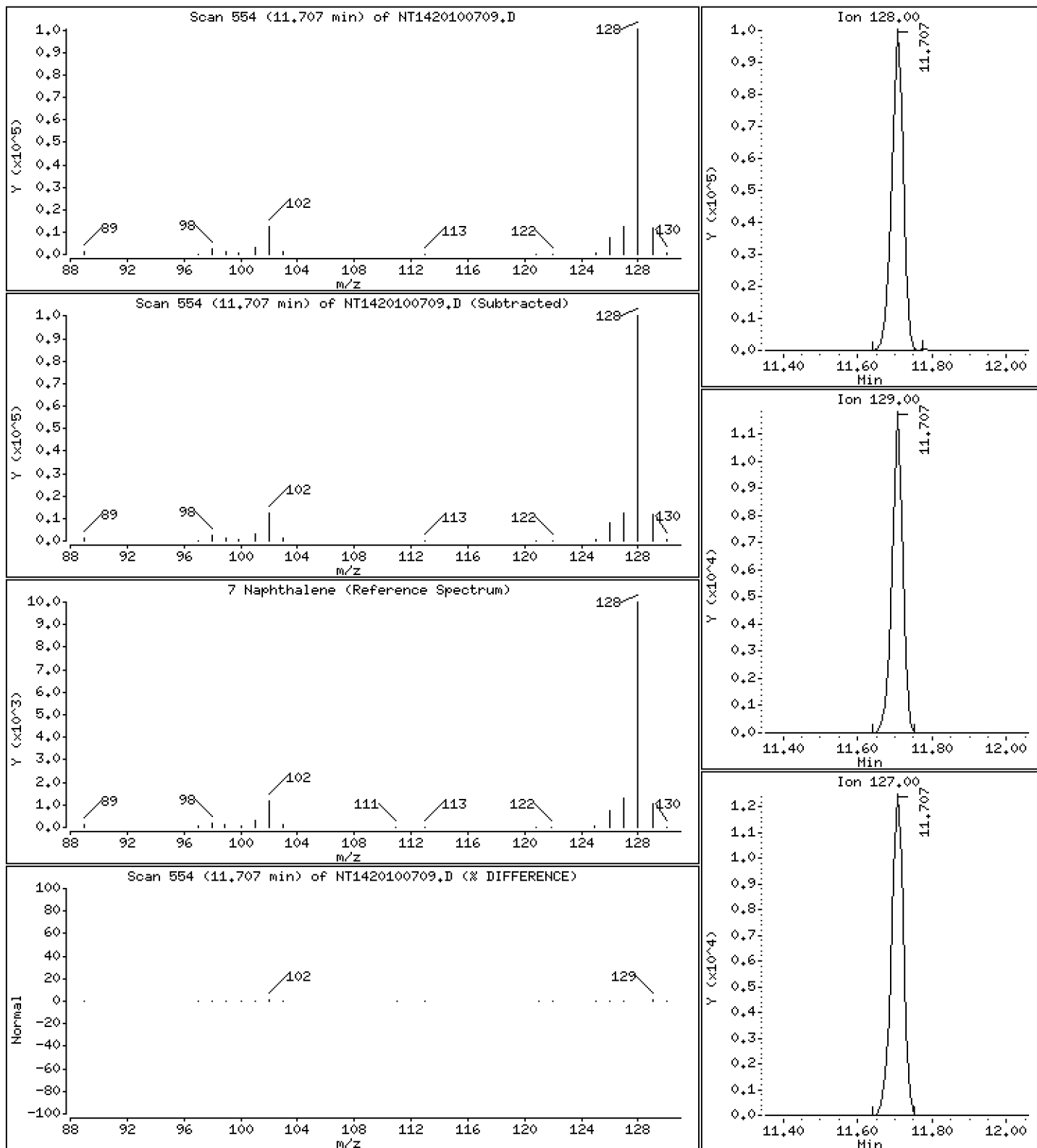
Operator: VTS

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

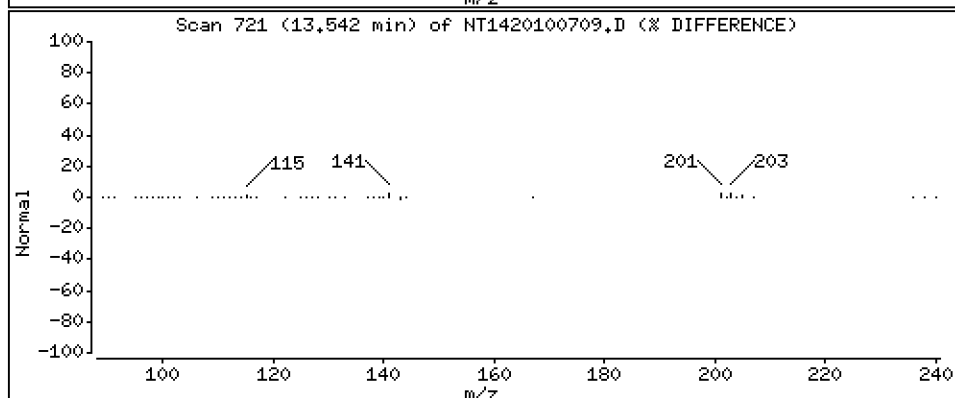
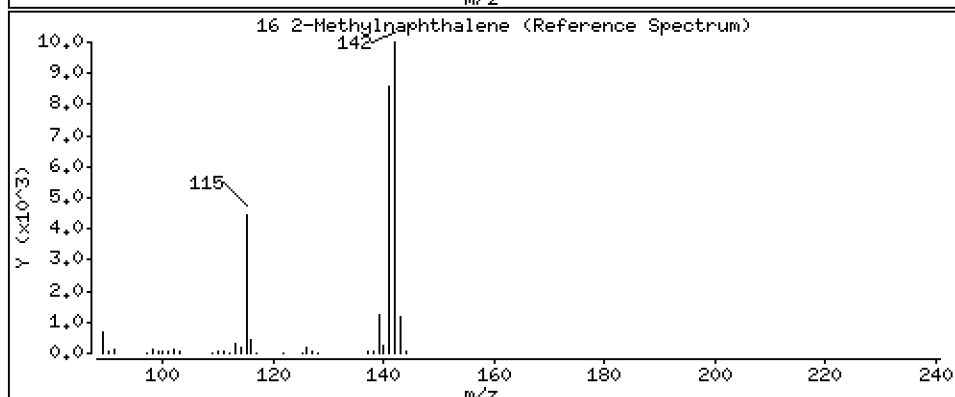
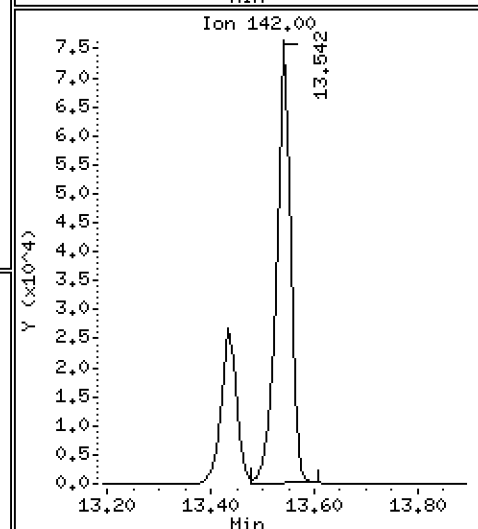
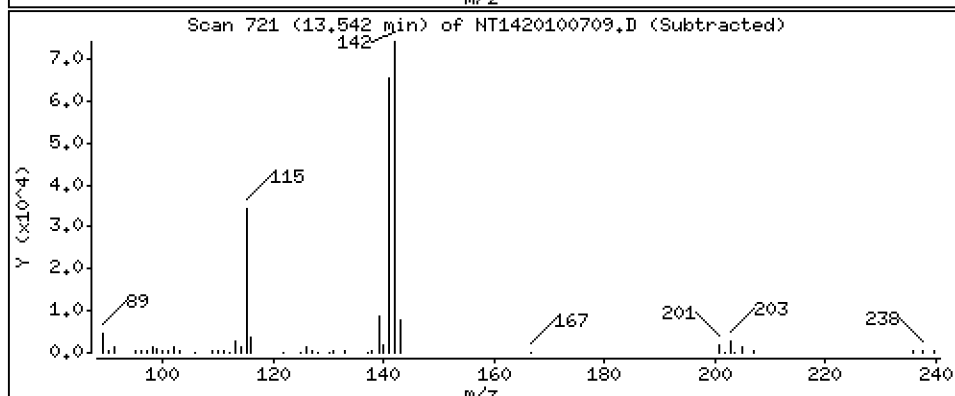
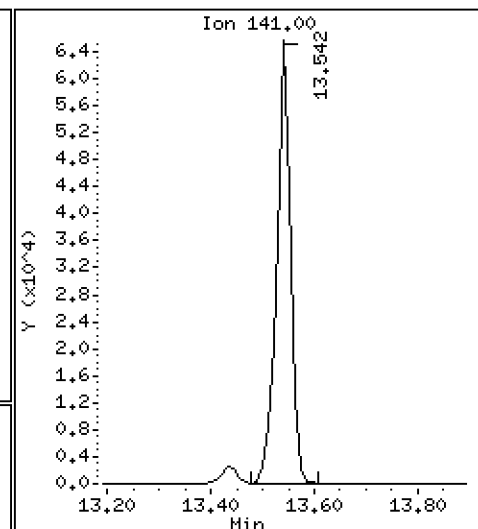
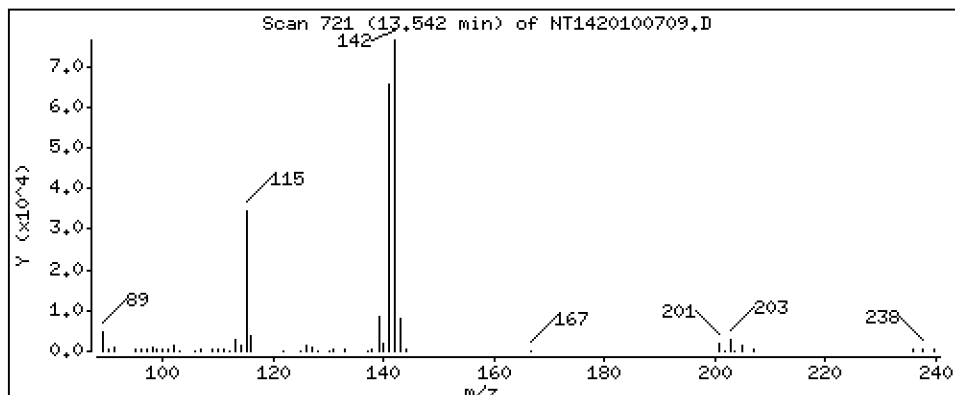
Operator: VTS

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

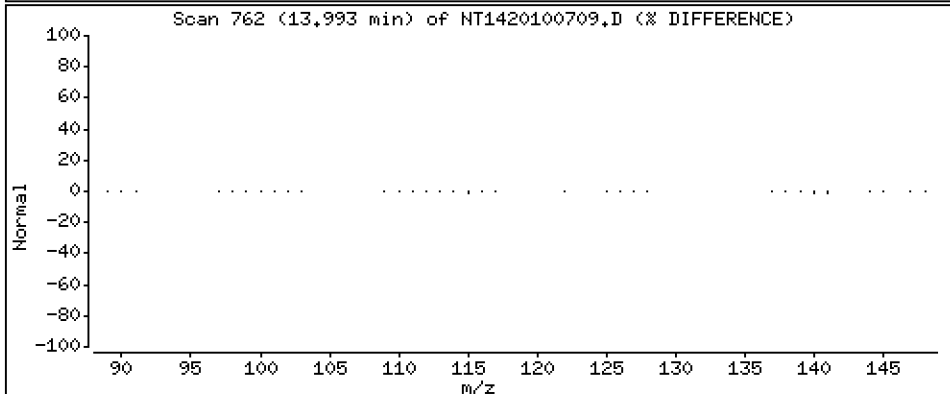
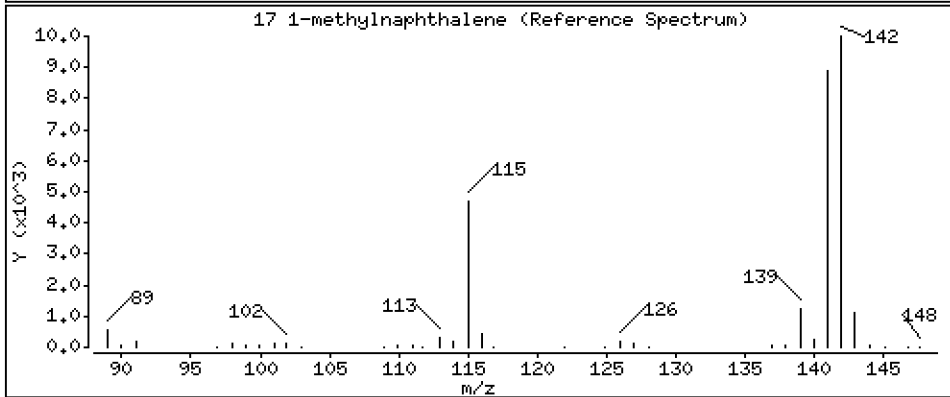
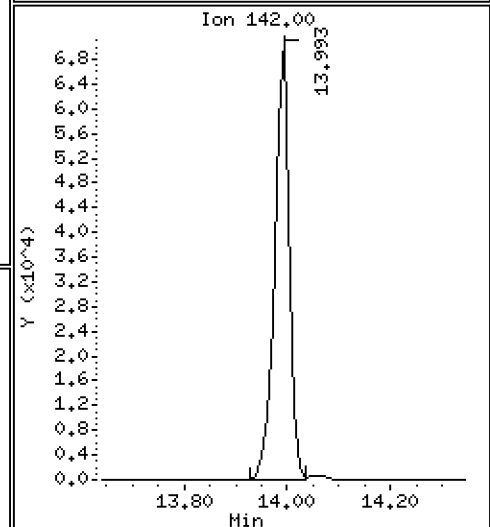
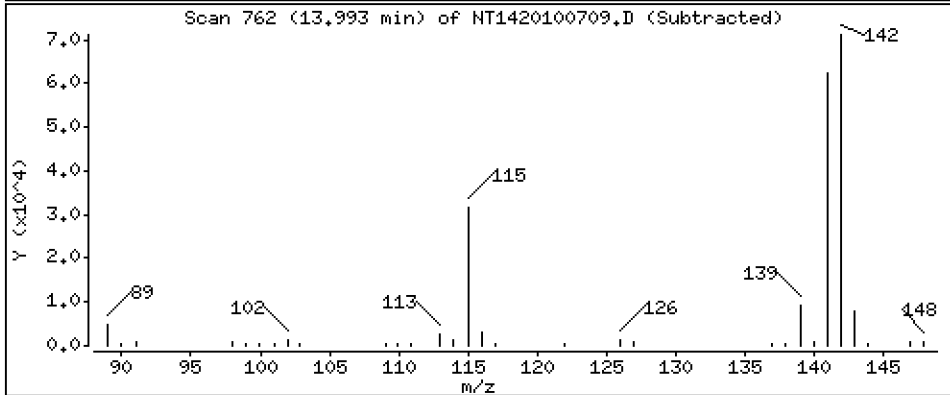
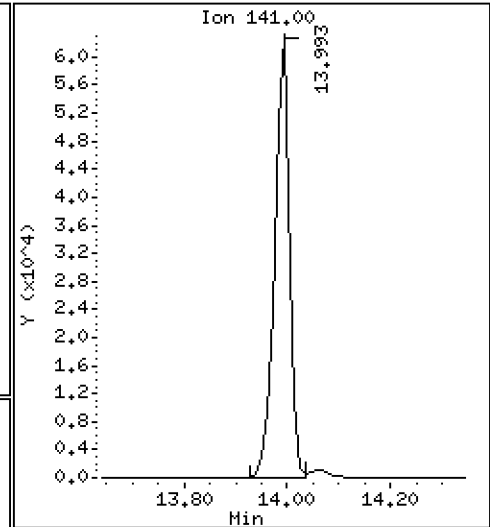
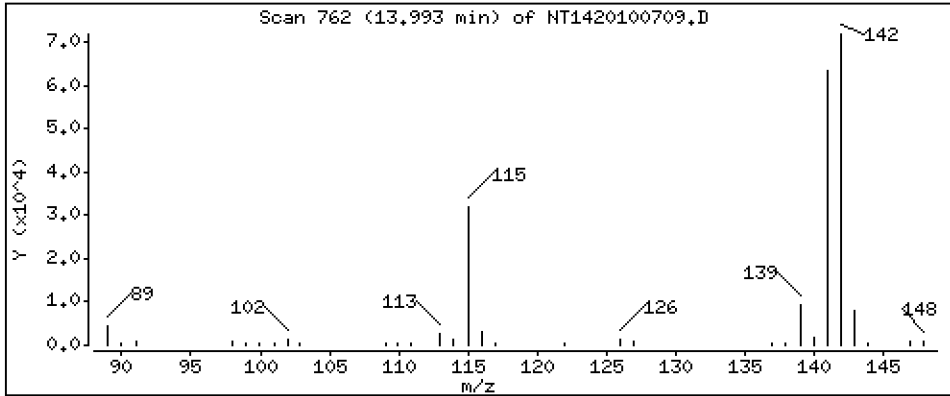
Operator: VTS

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

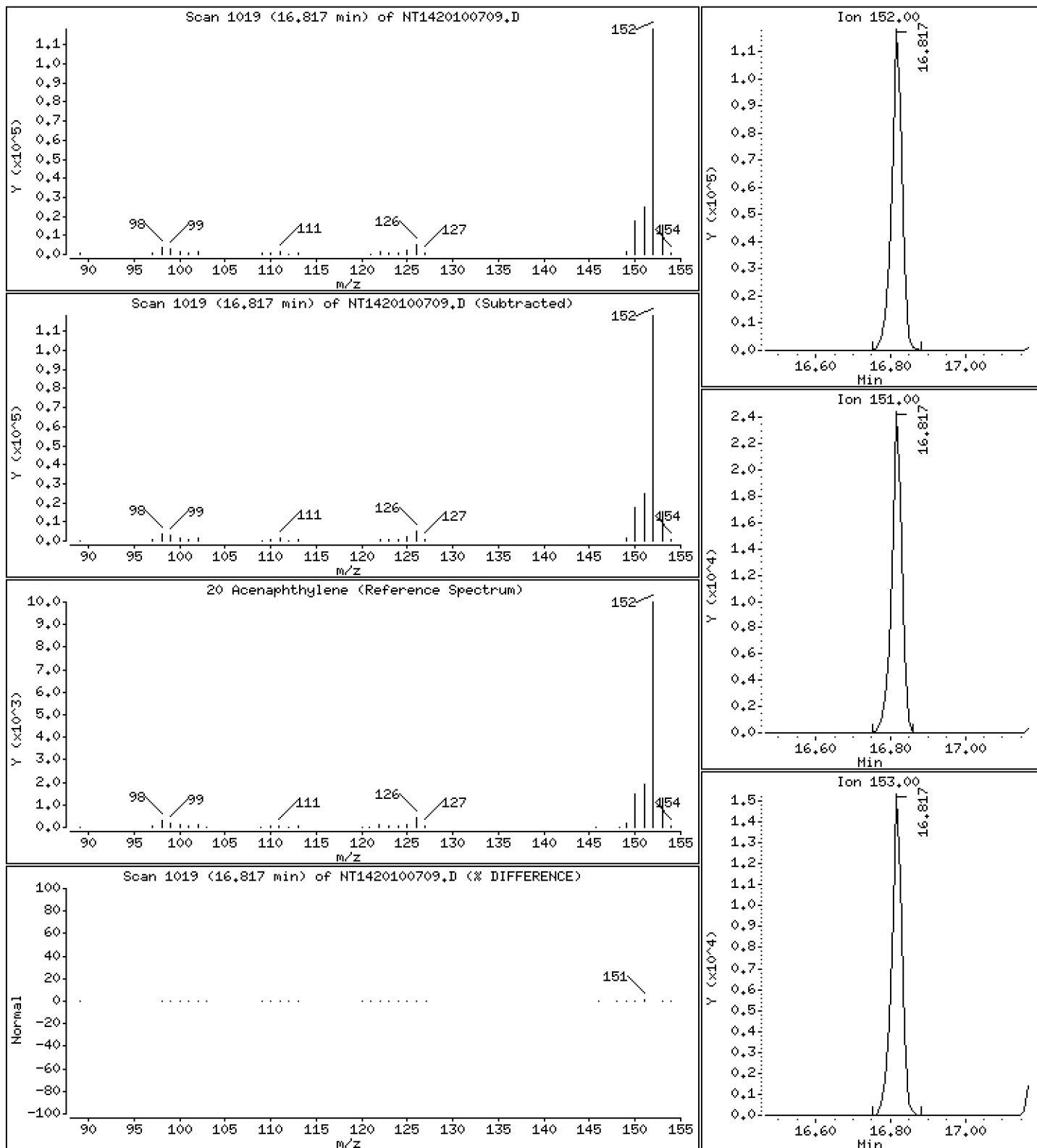
Operator: VTS

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

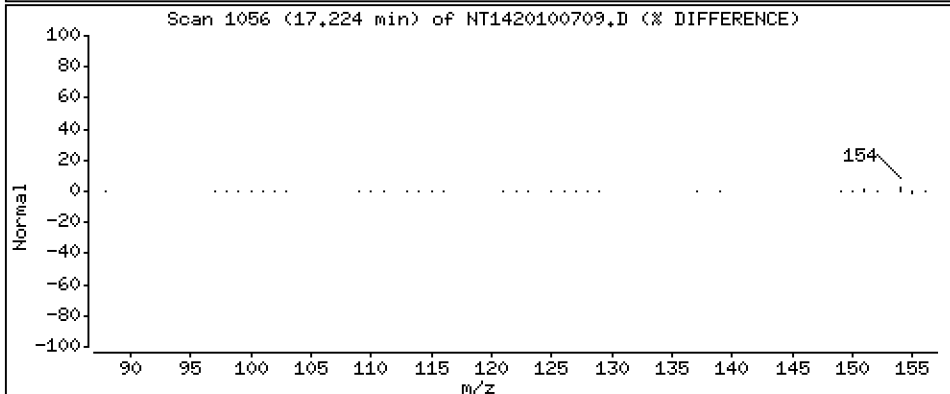
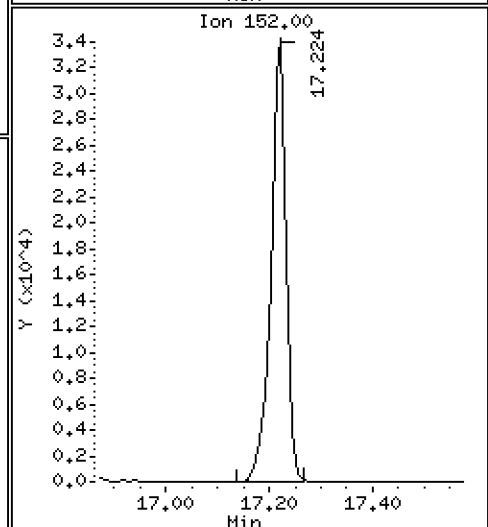
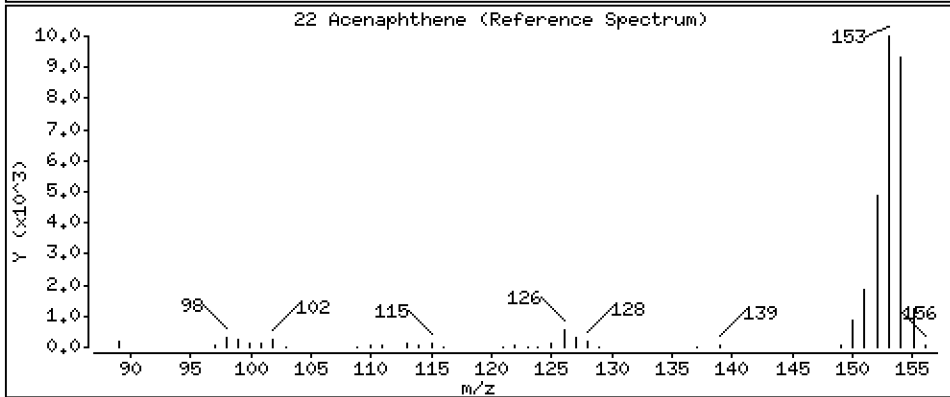
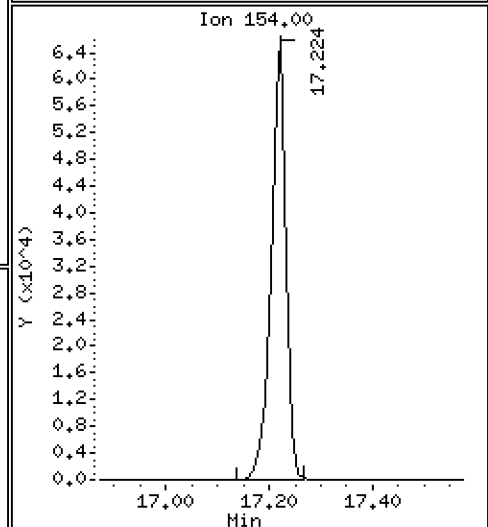
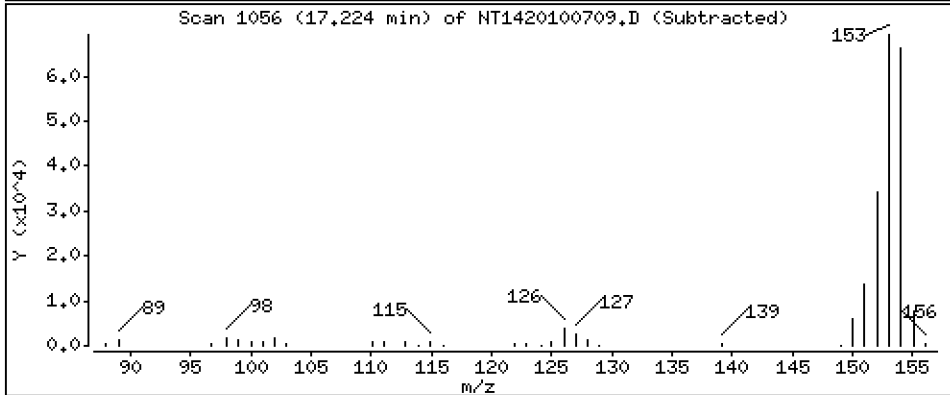
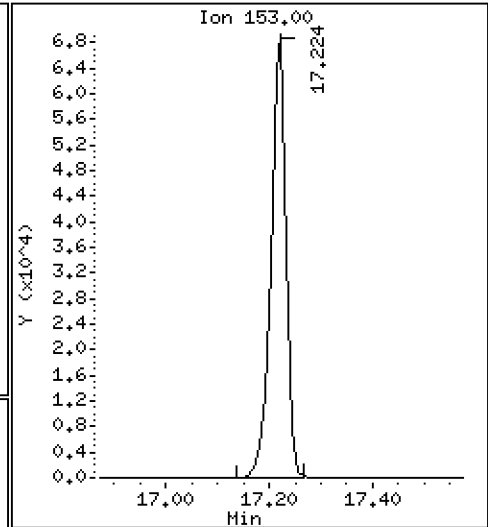
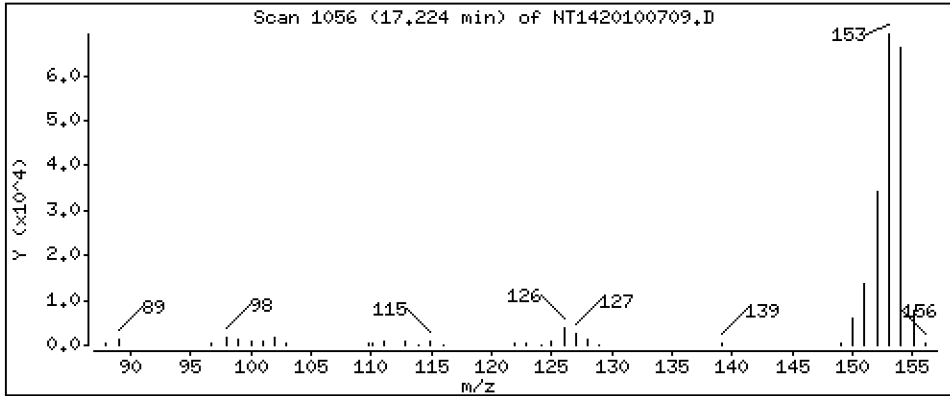
Operator: VTS

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

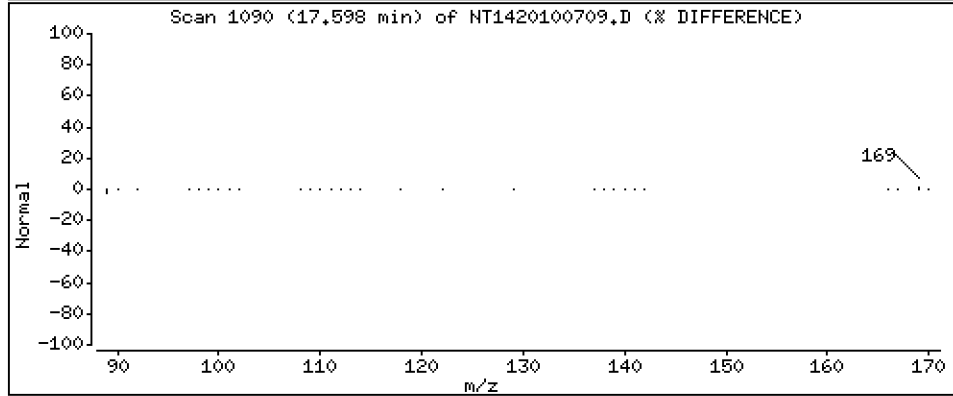
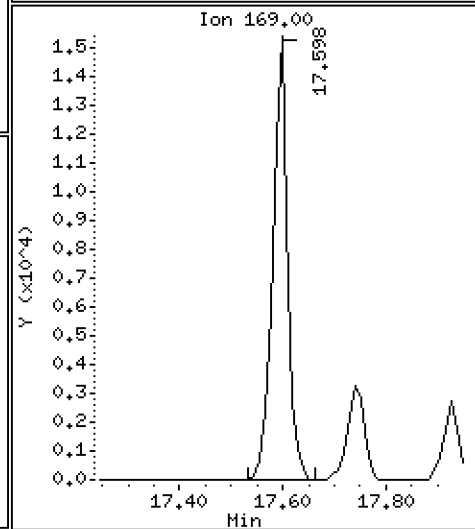
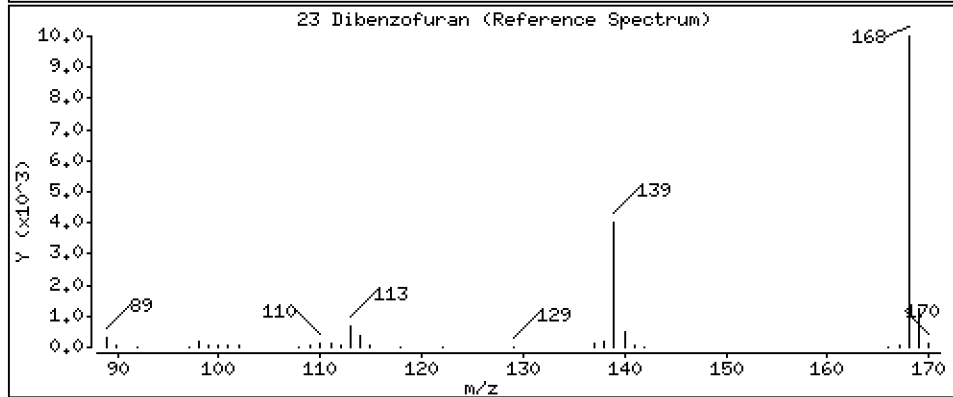
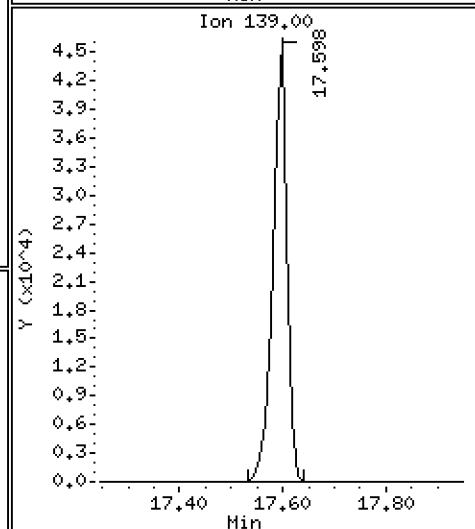
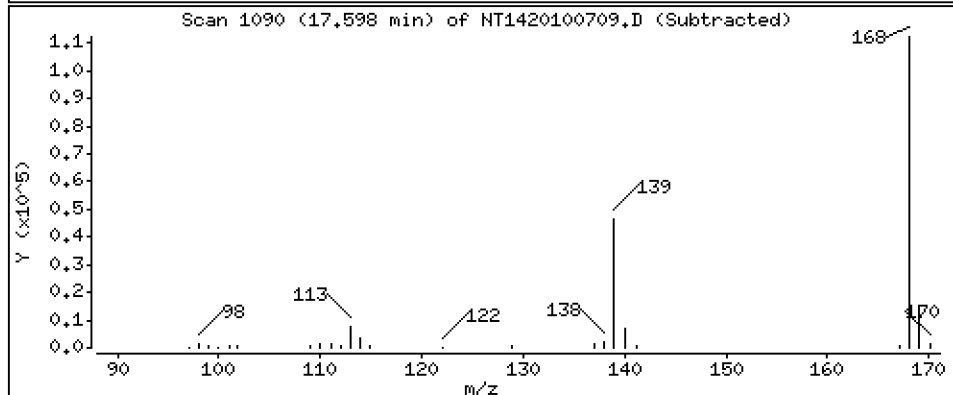
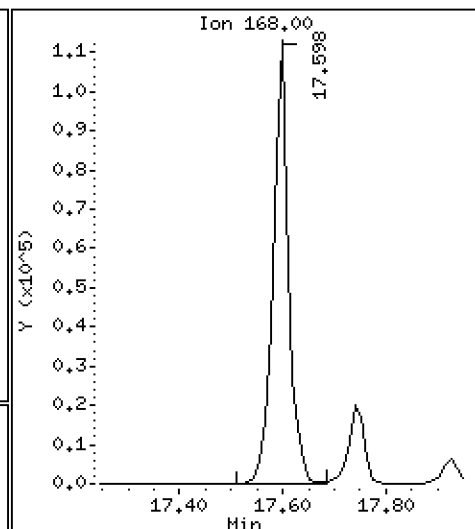
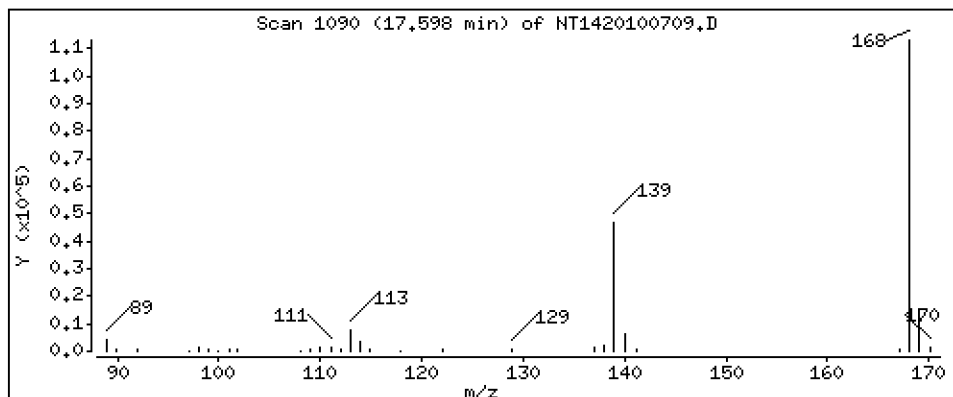
Operator: VTS

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

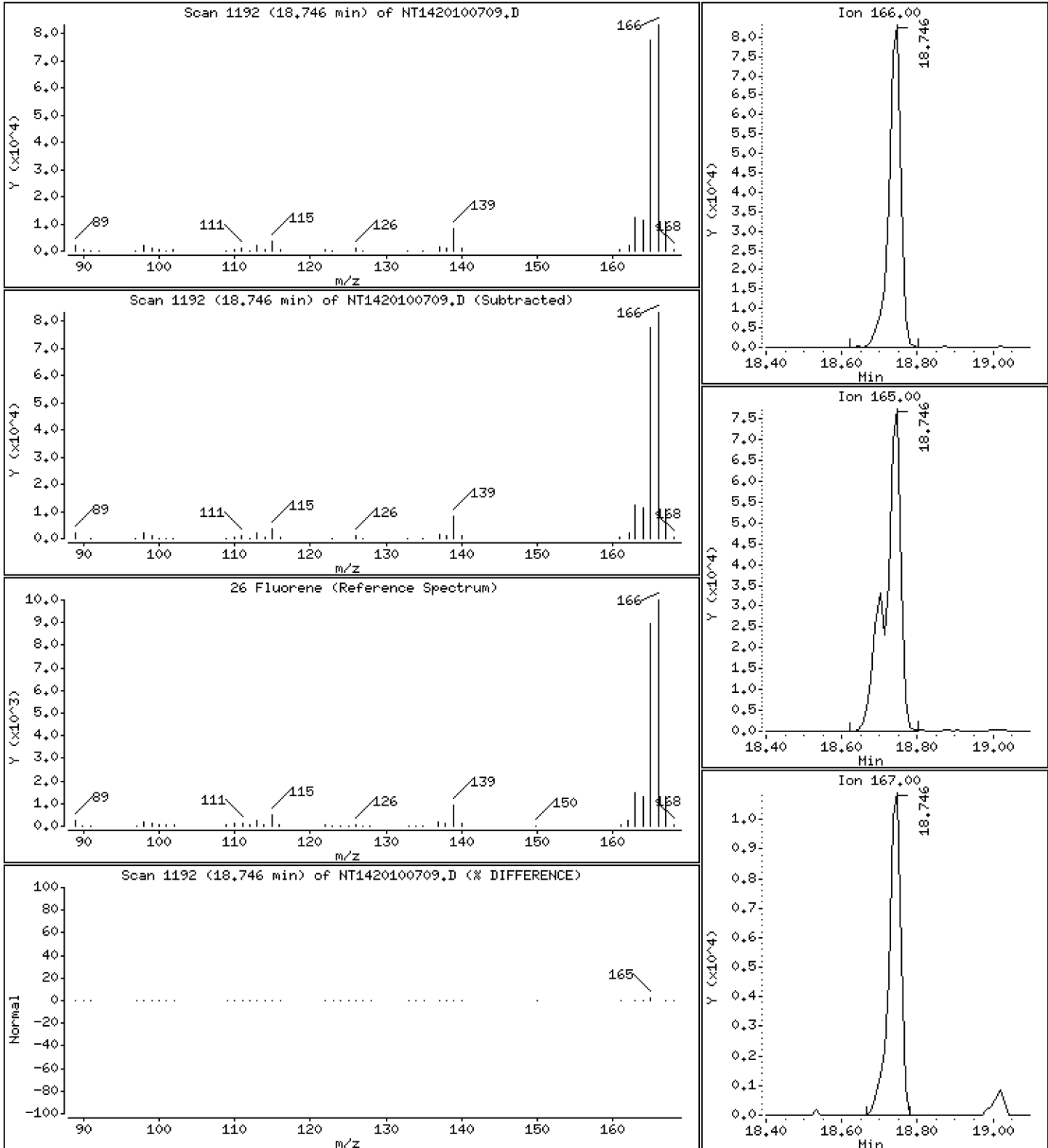
Operator: VTS

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

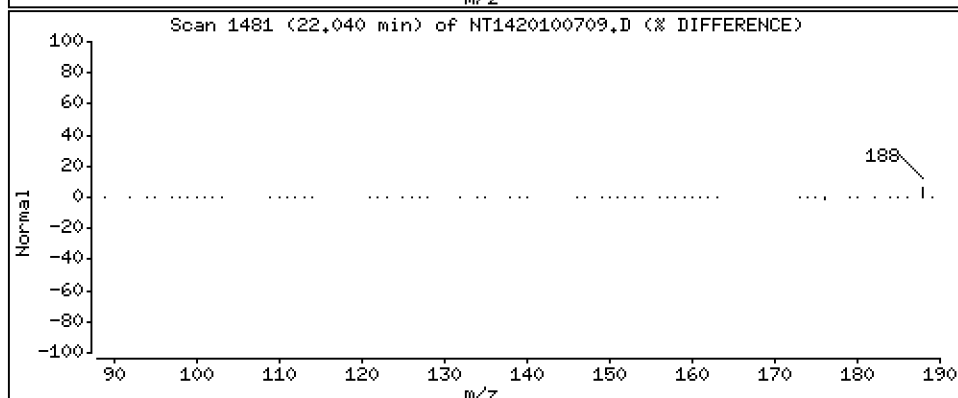
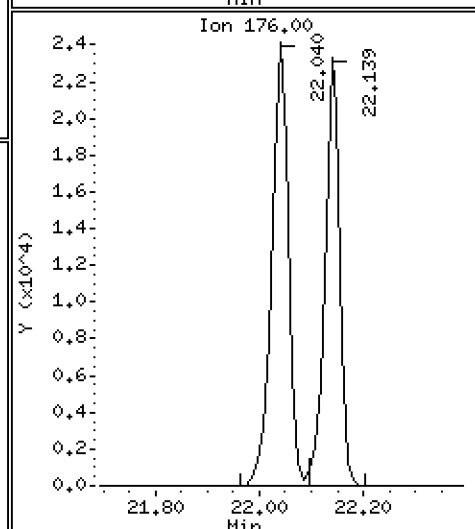
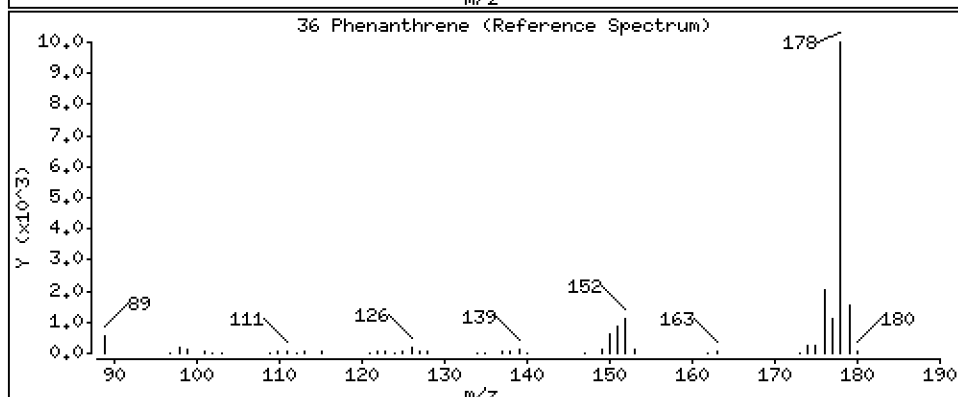
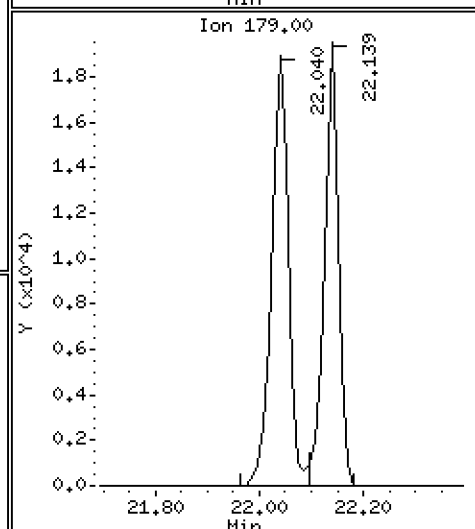
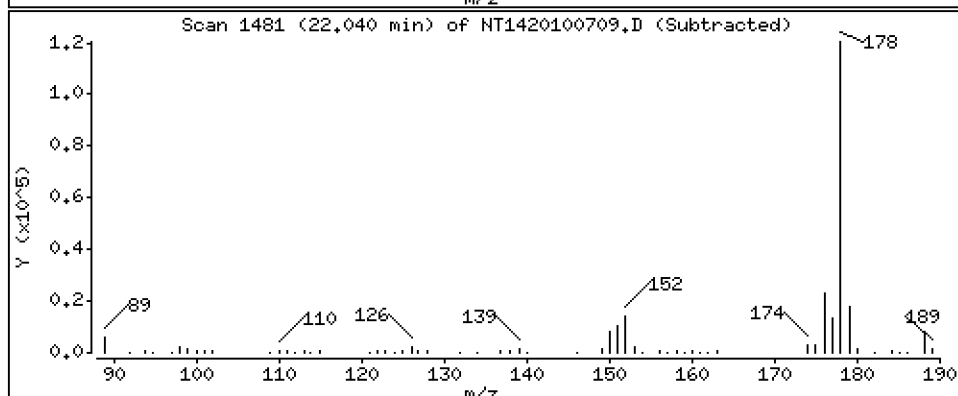
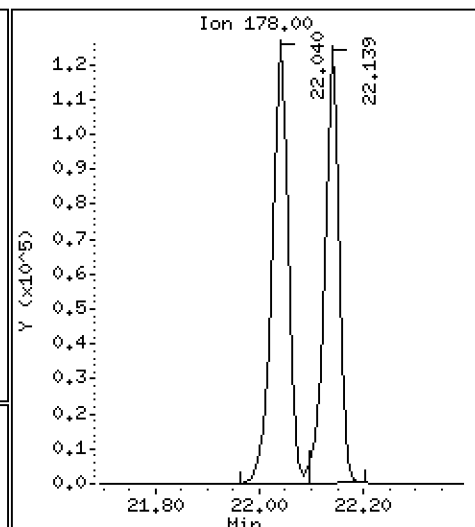
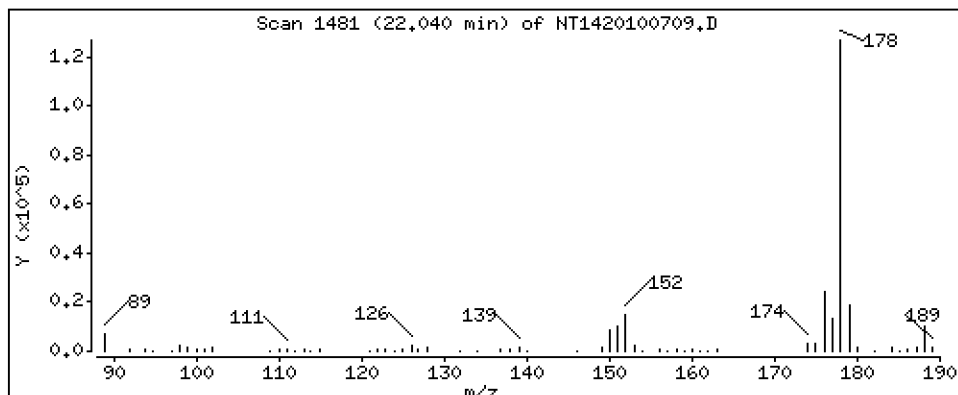
Operator: VTS

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

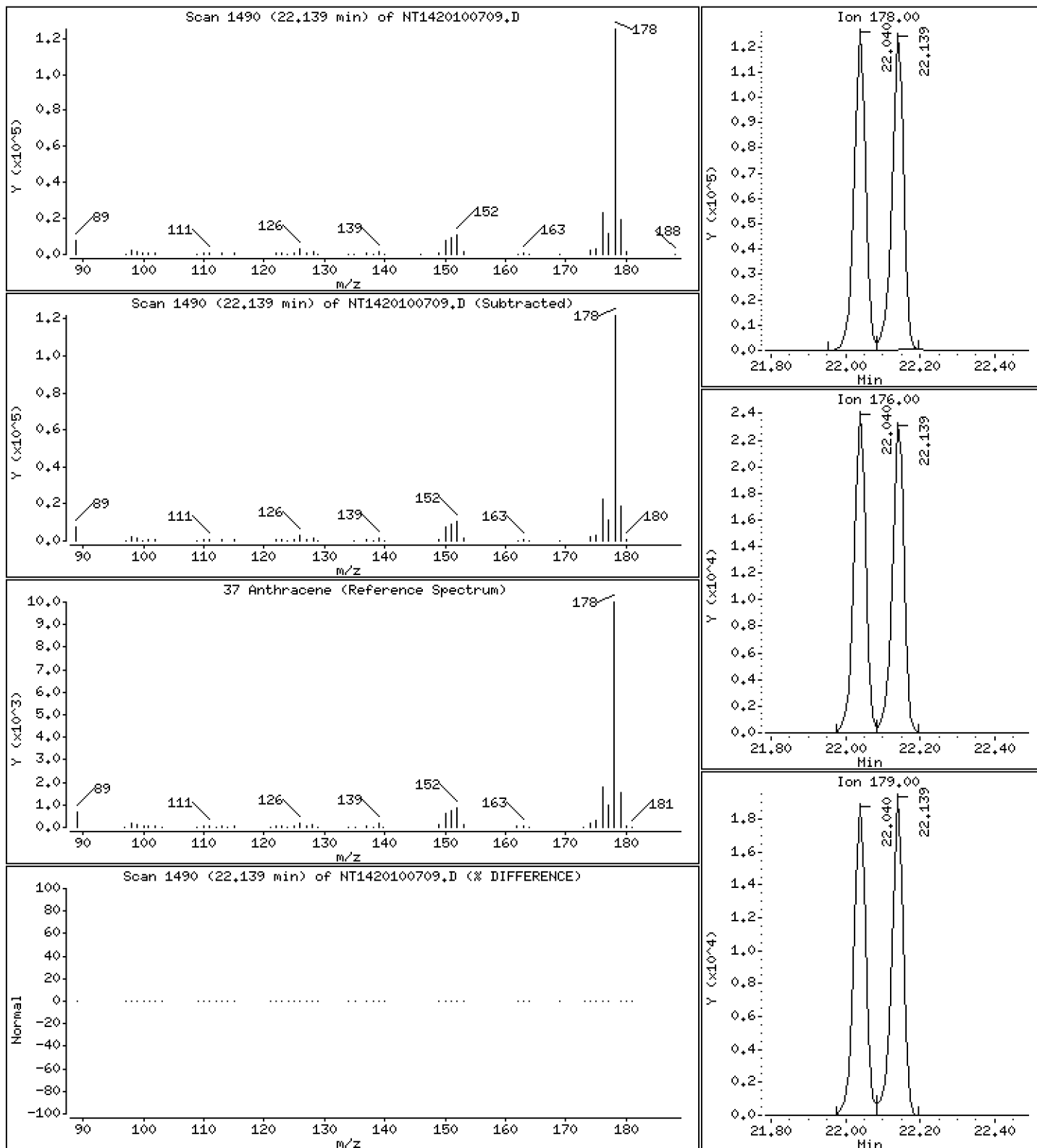
Operator: VTS

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

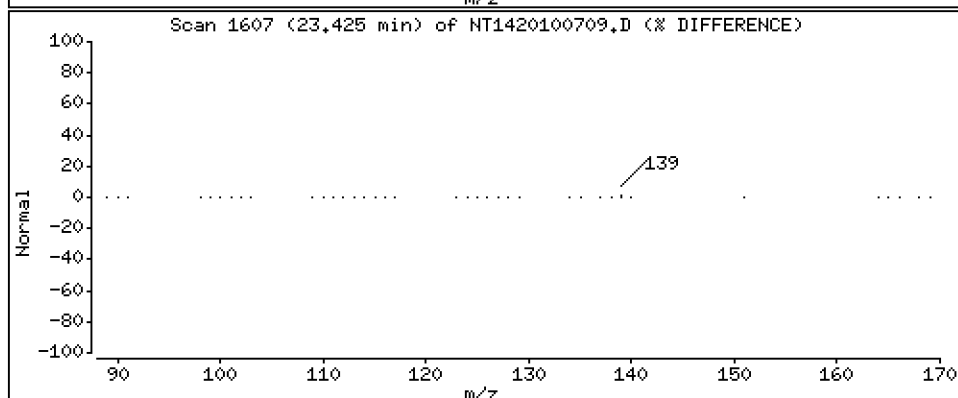
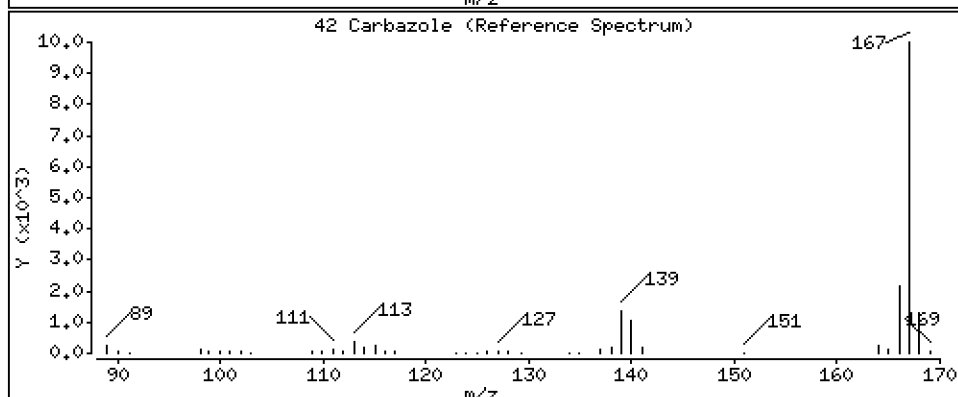
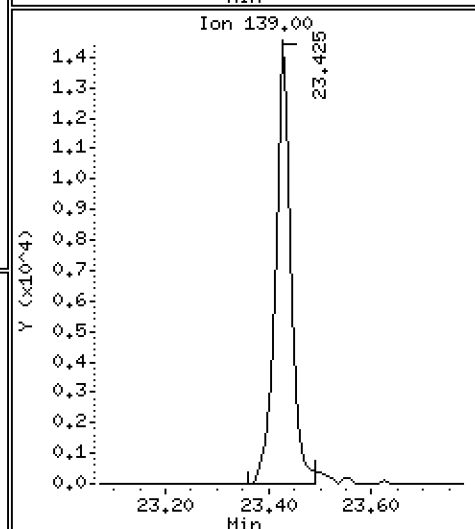
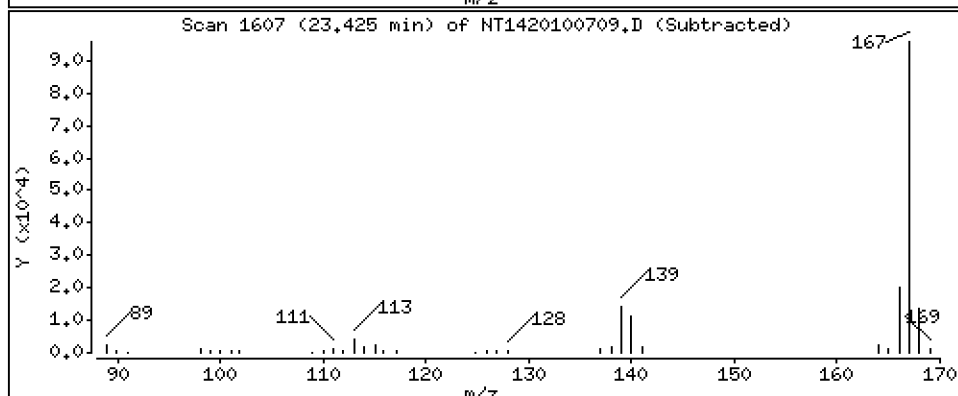
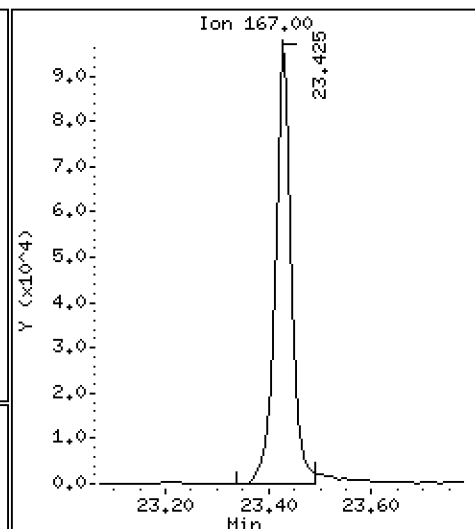
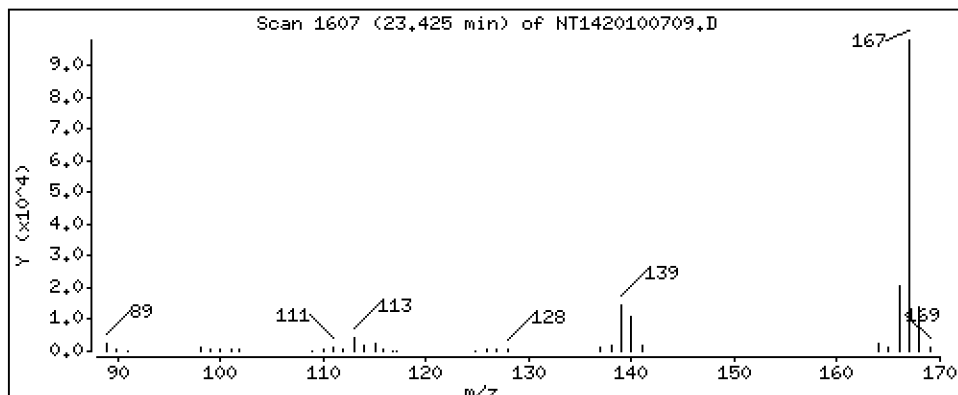
Operator: VTS

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

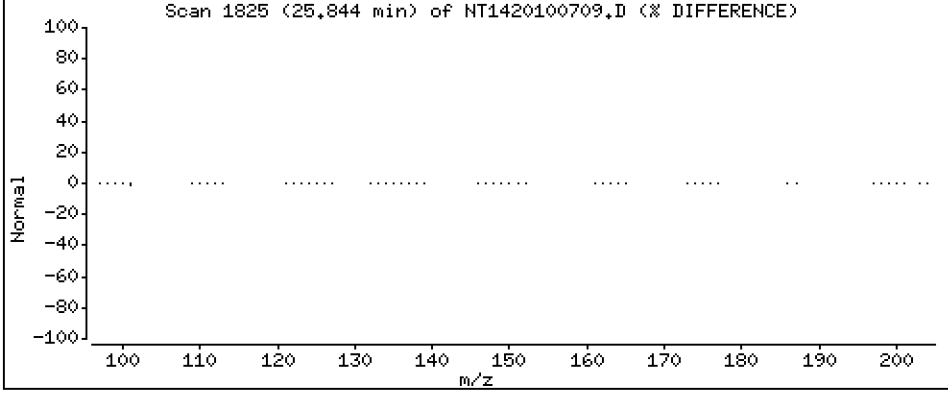
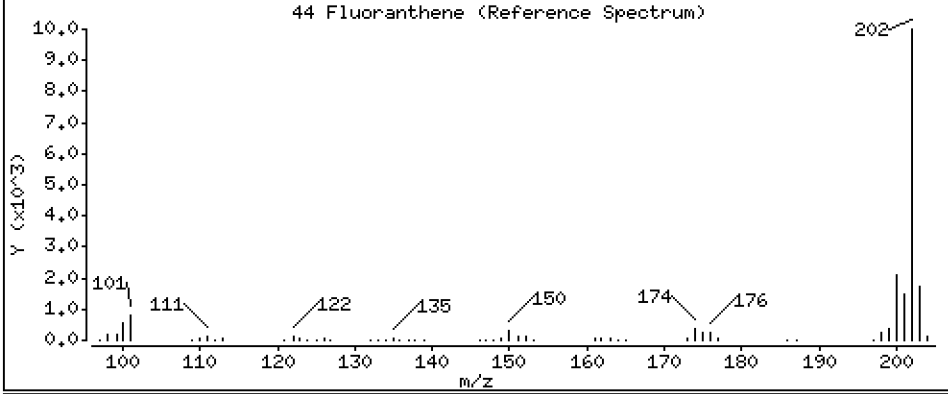
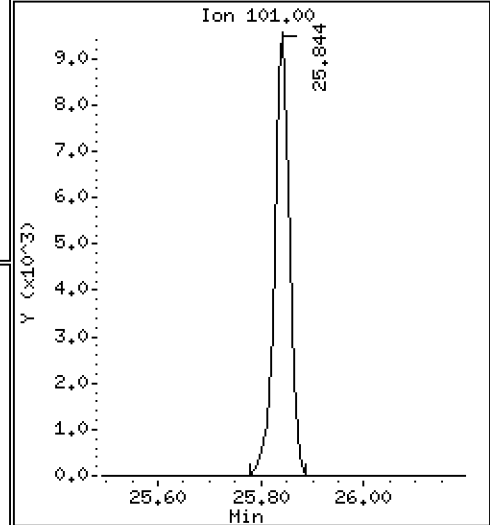
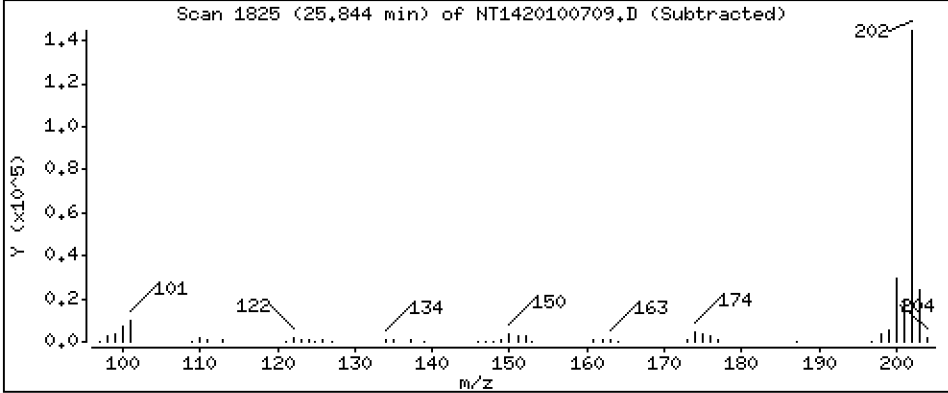
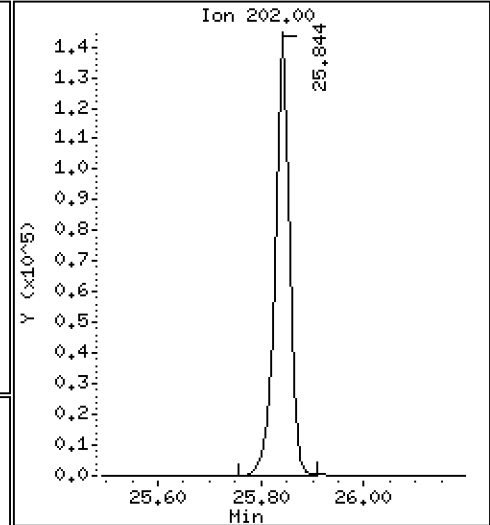
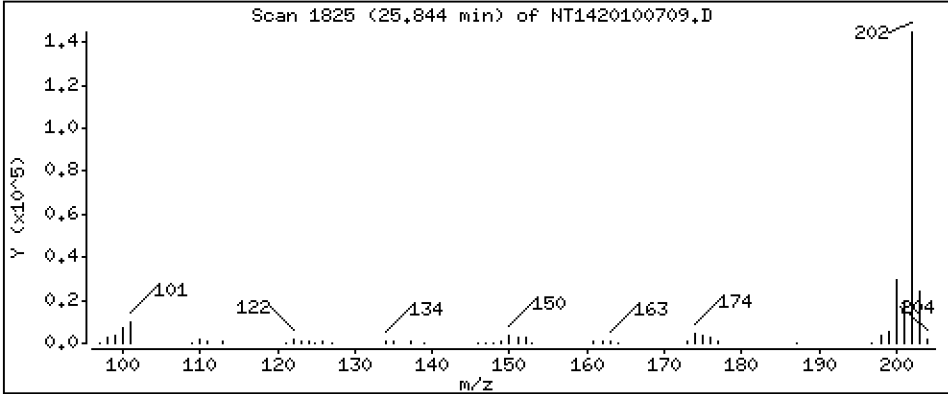
Operator: VTS

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

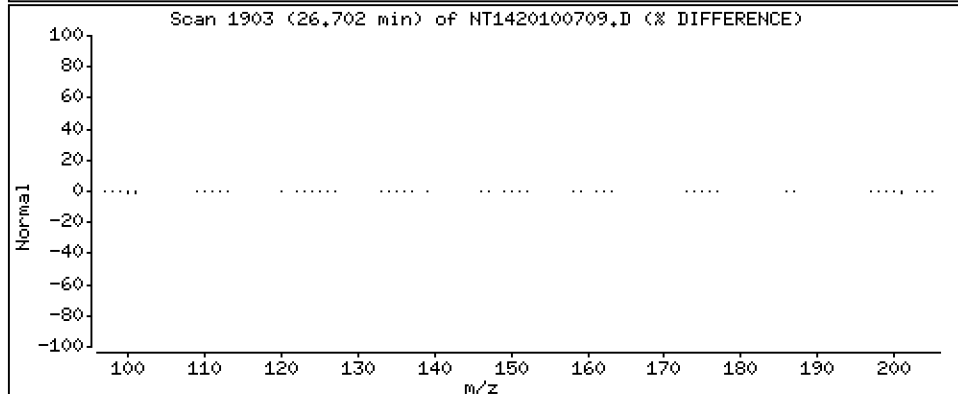
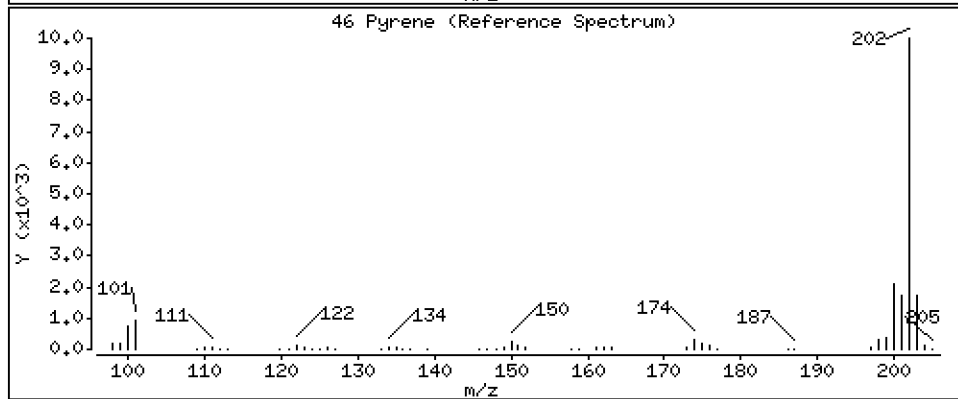
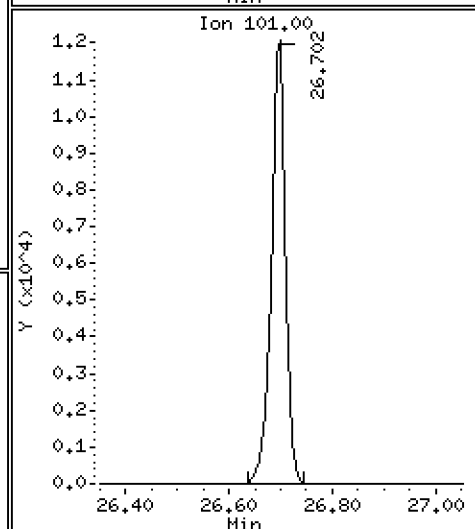
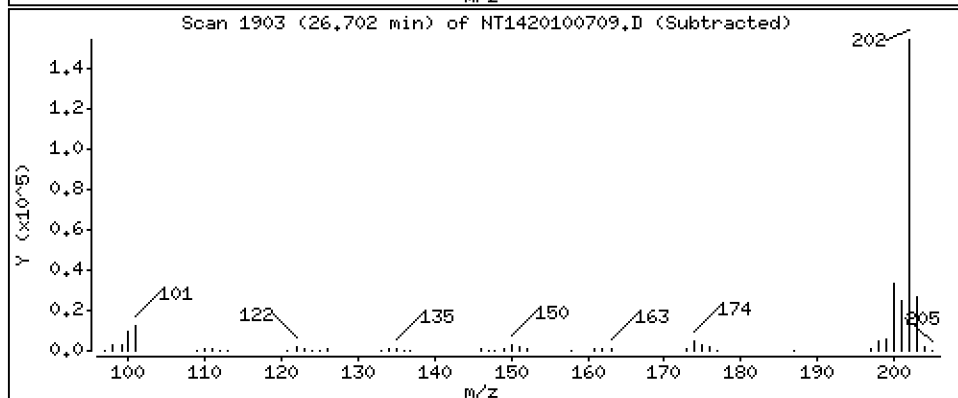
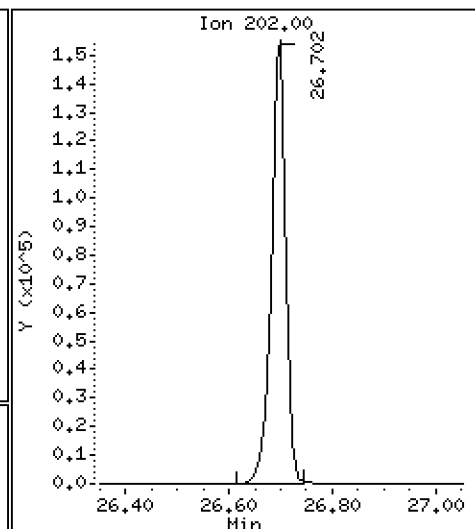
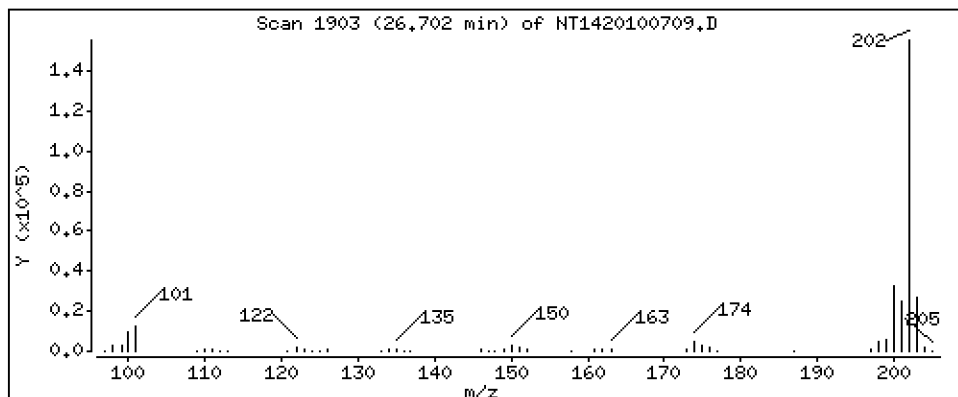
Operator: VTS

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

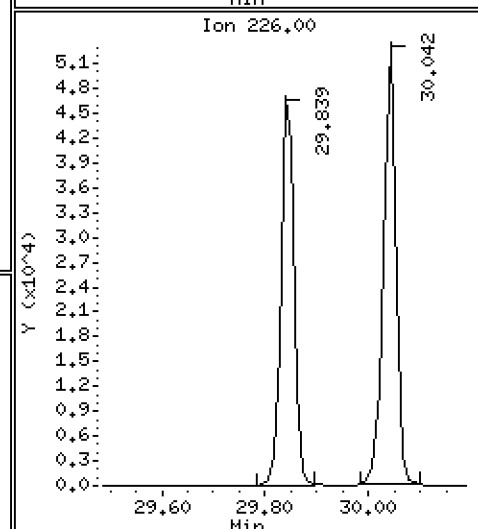
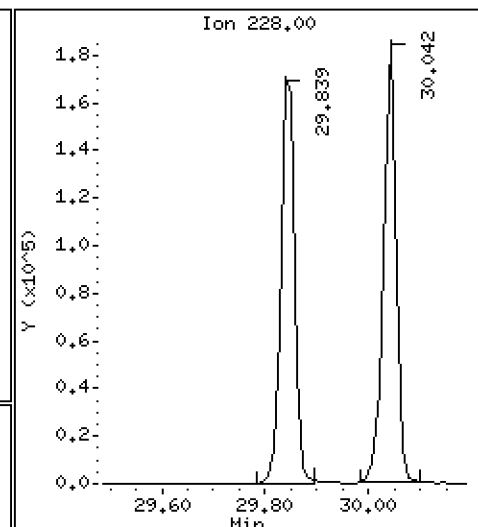
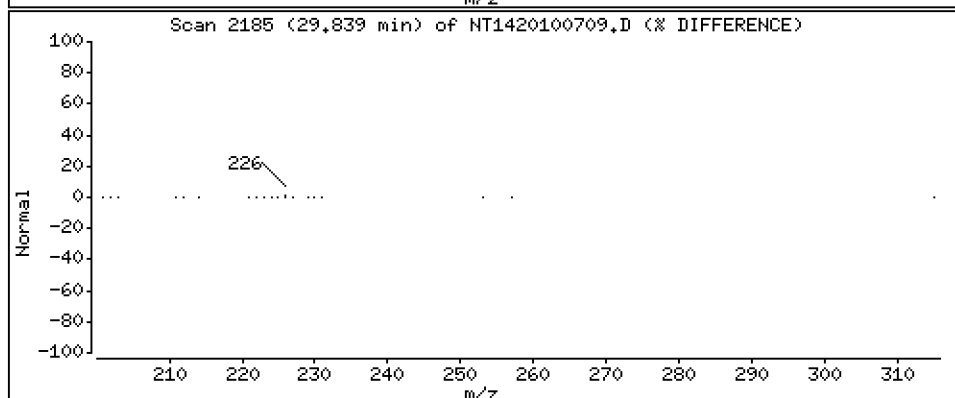
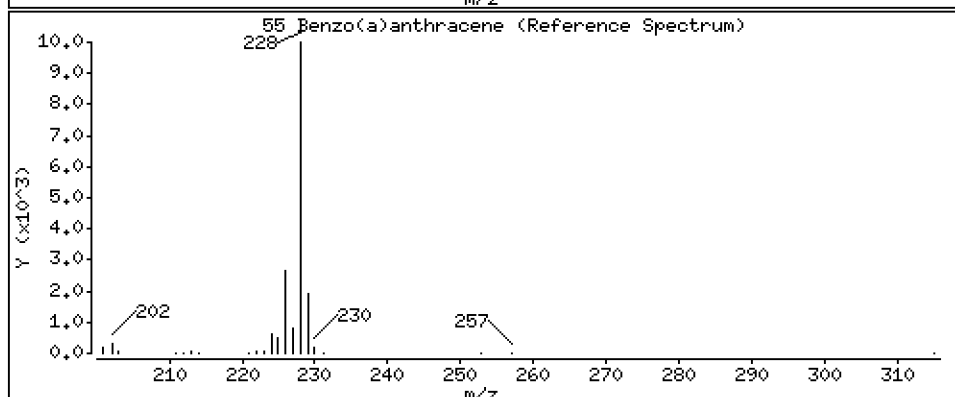
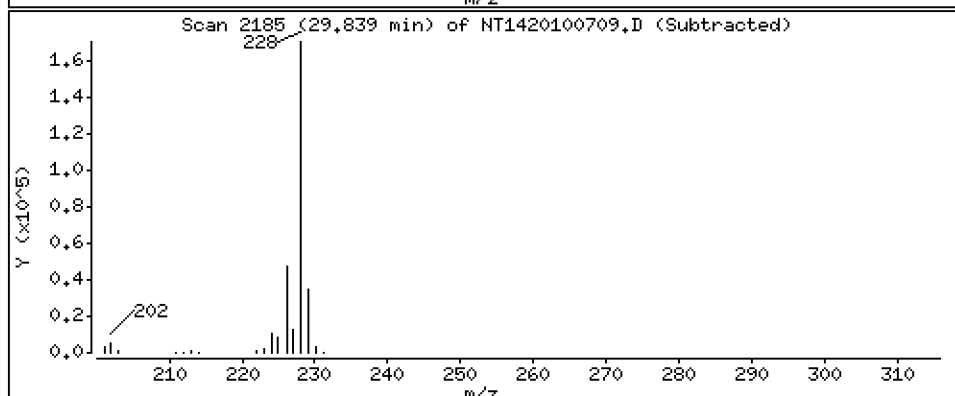
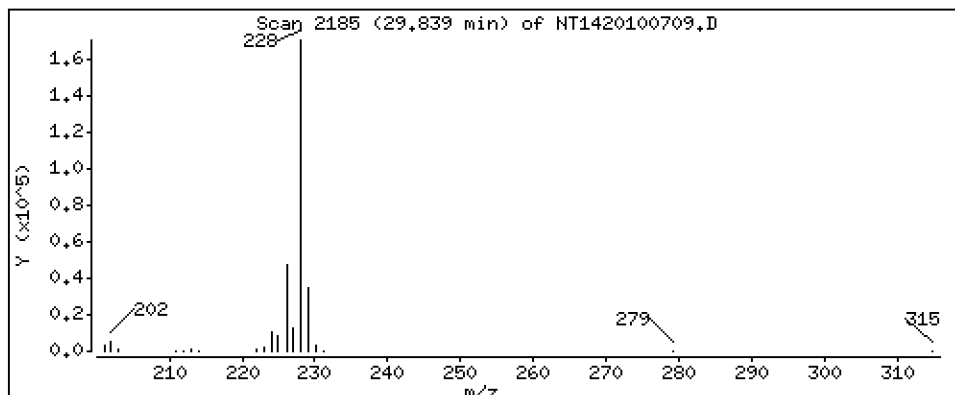
Operator: VTS

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

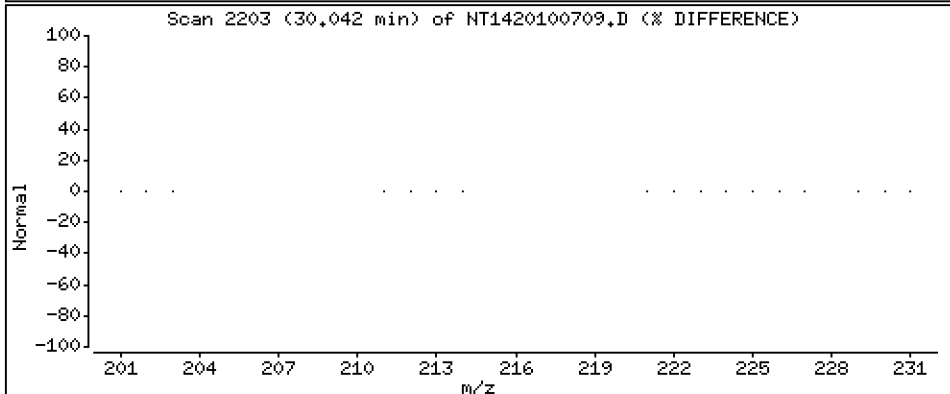
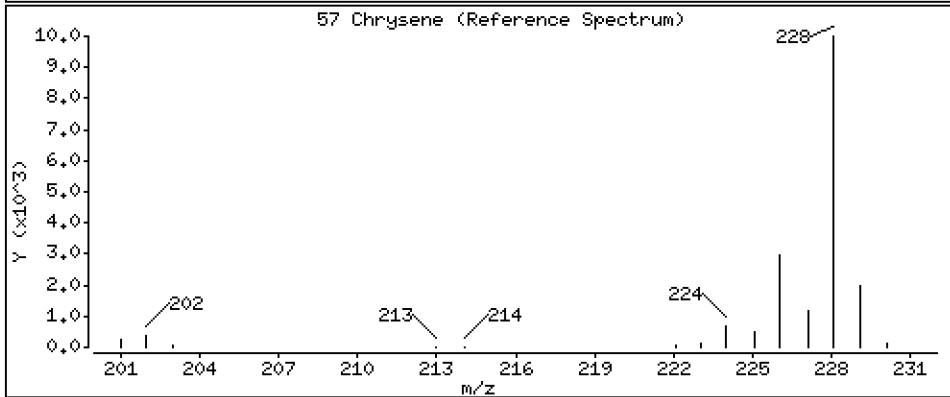
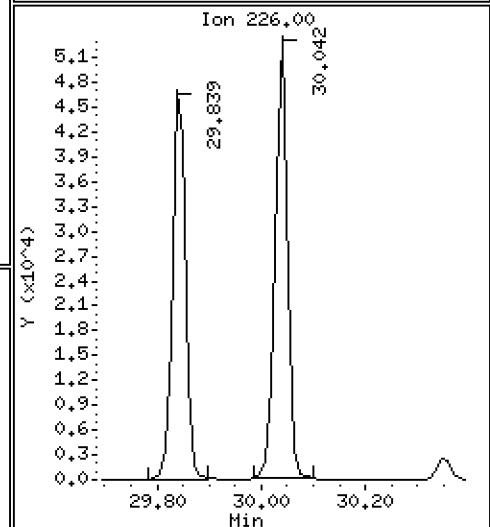
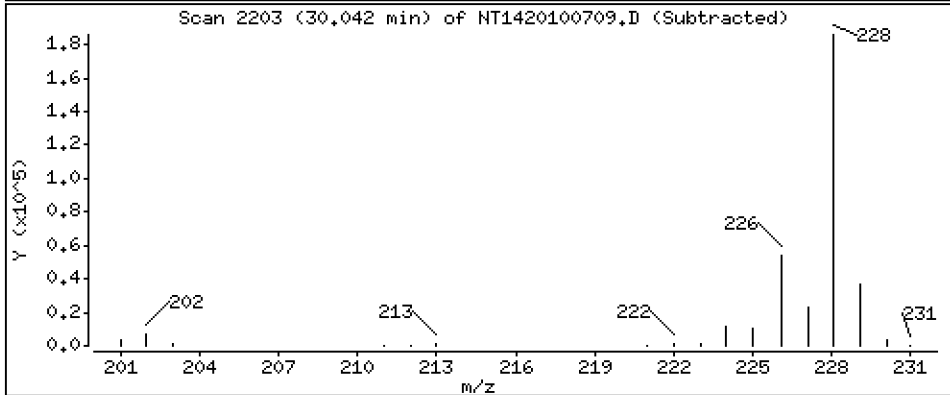
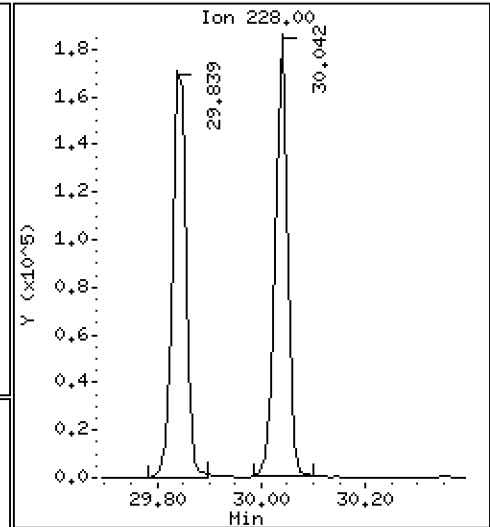
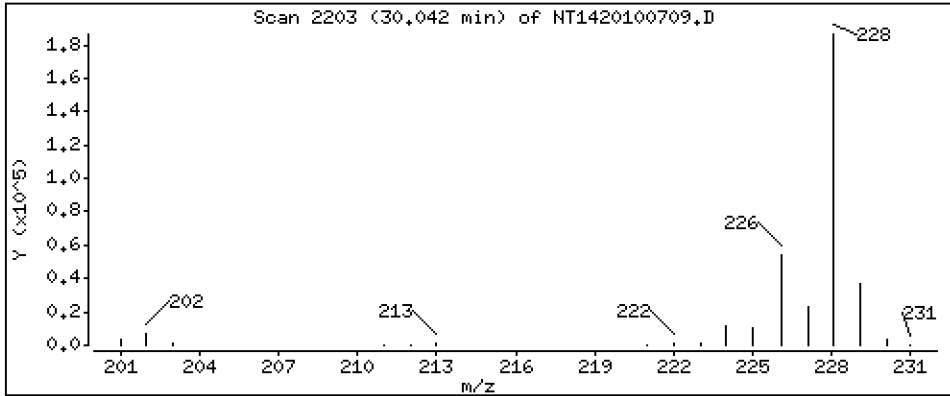
Operator: VTS

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

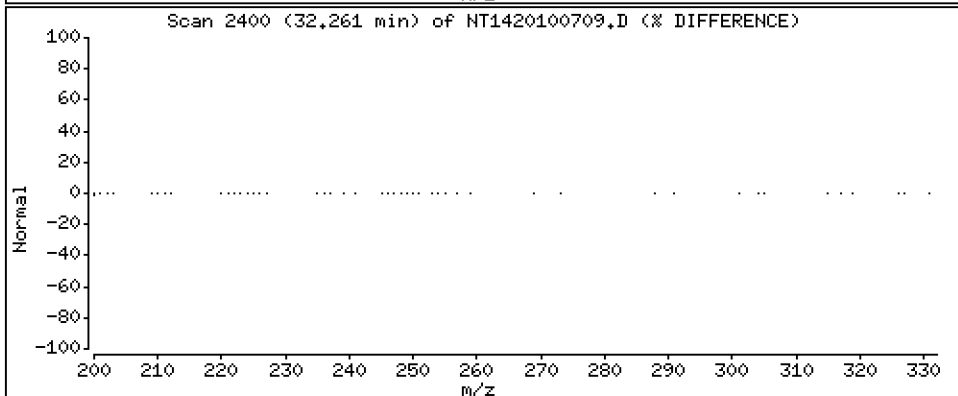
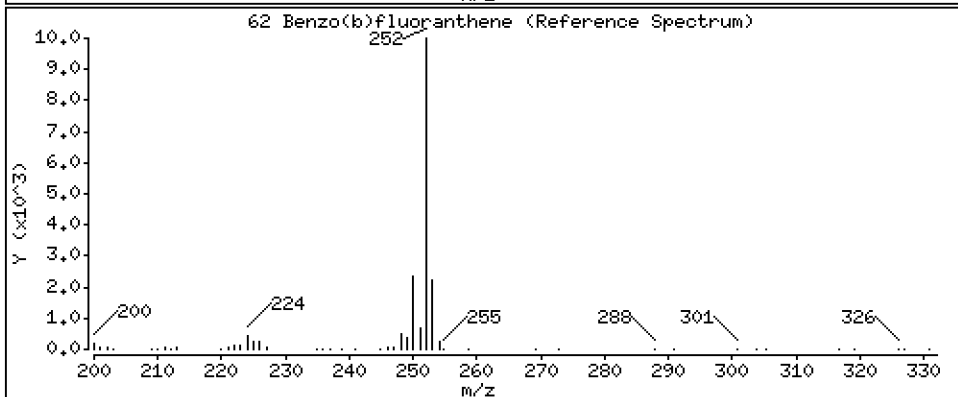
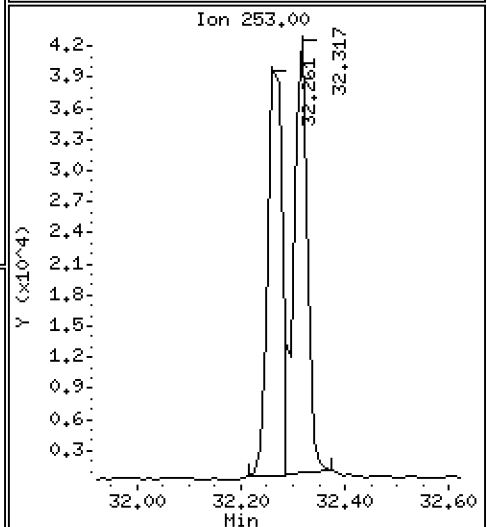
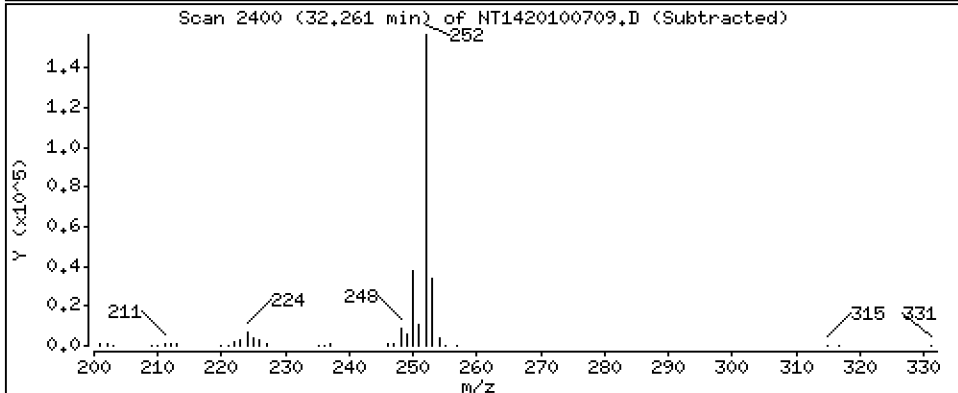
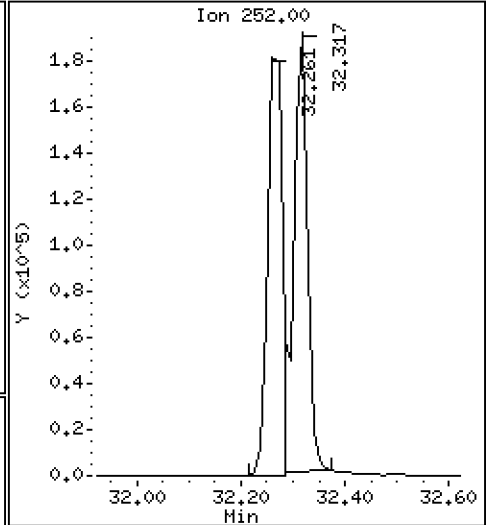
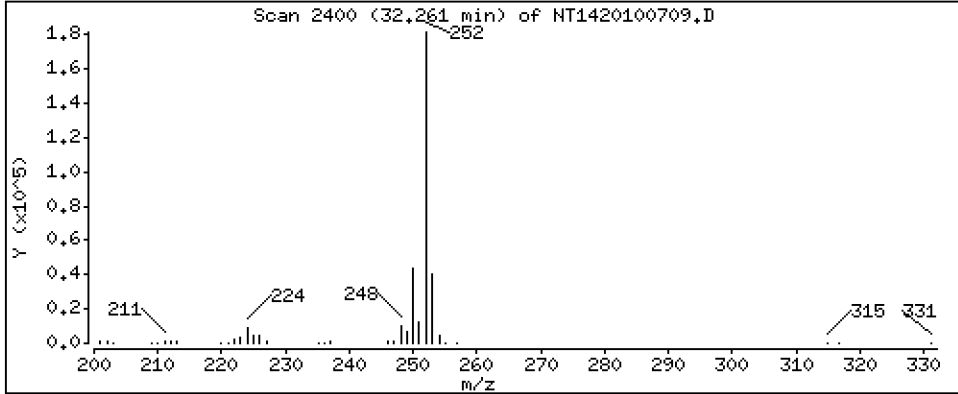
Operator: VTS

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

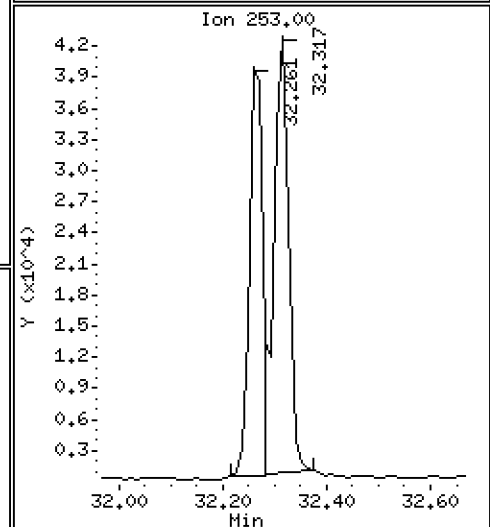
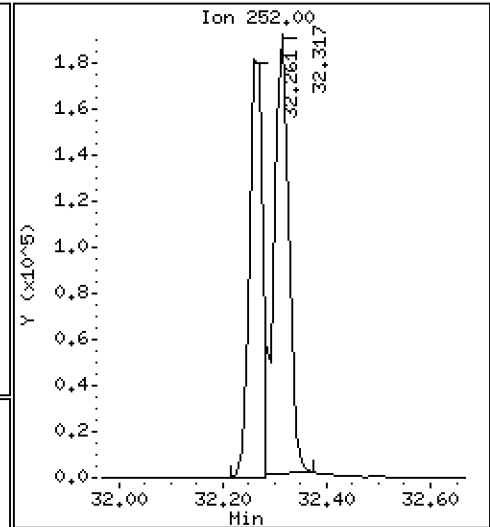
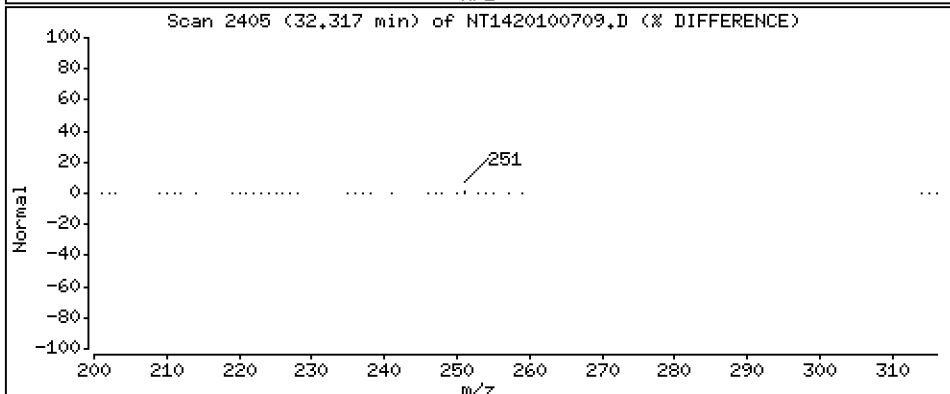
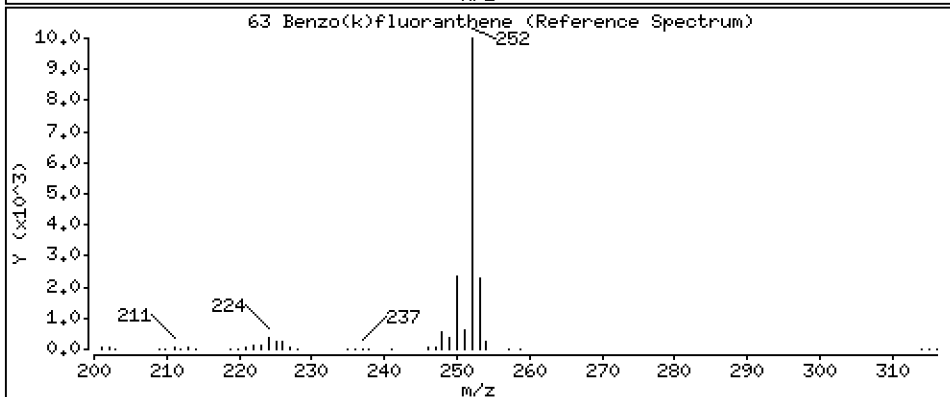
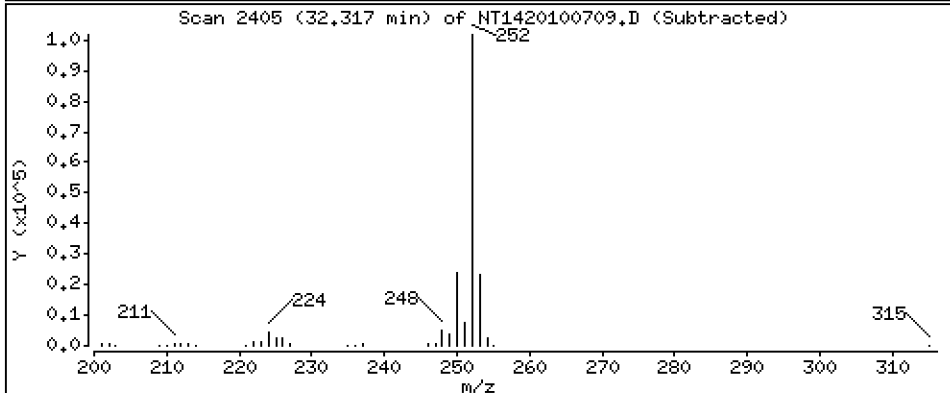
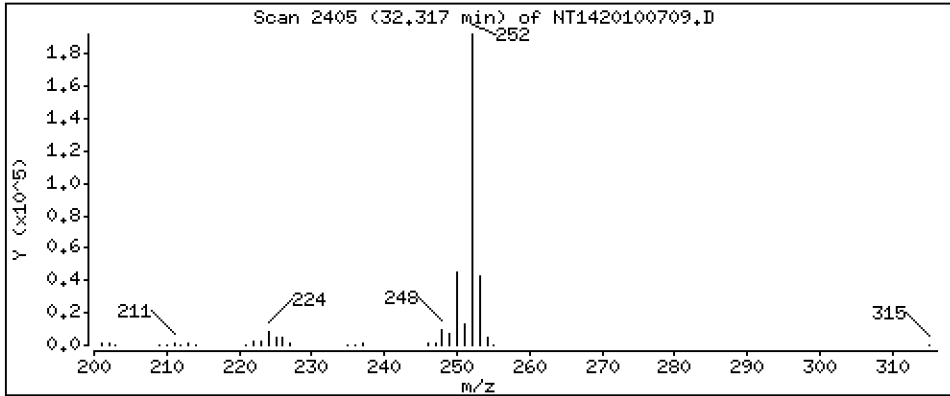
Operator: VTS

Column phase: Rxi-17Si11 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

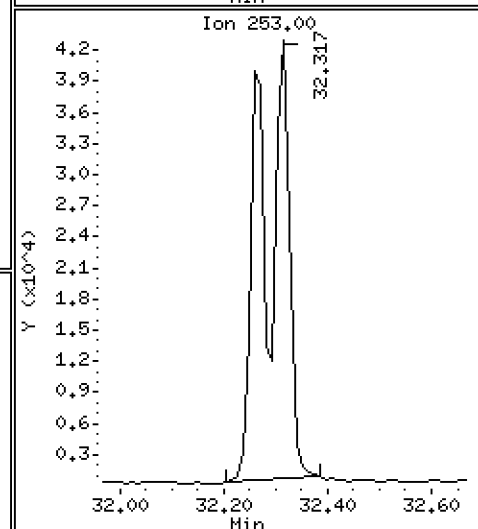
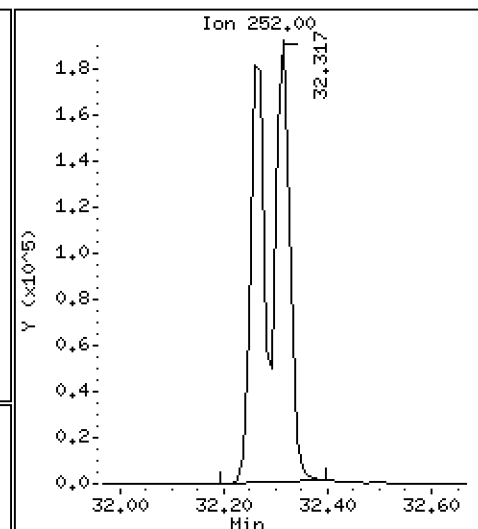
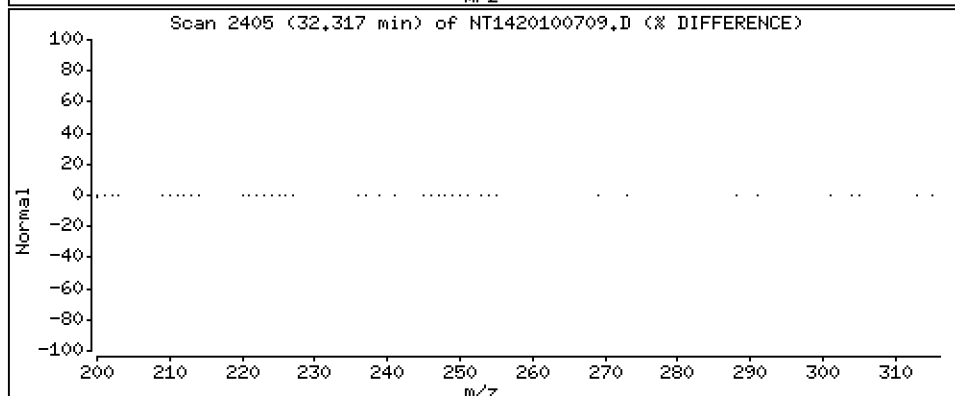
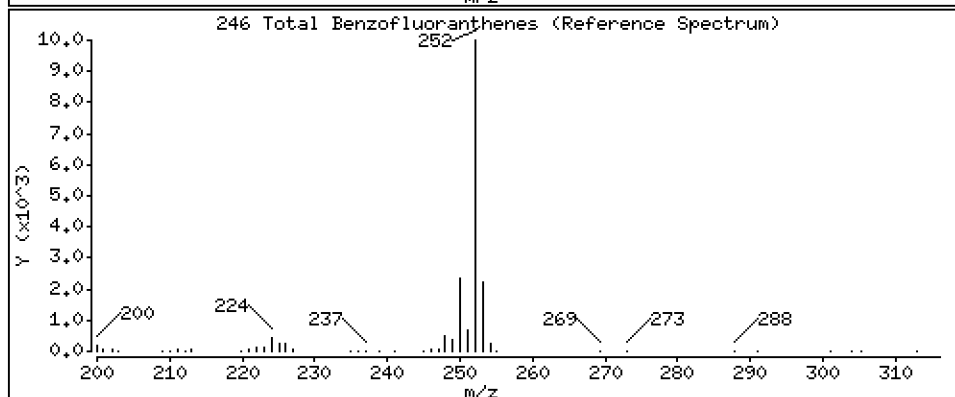
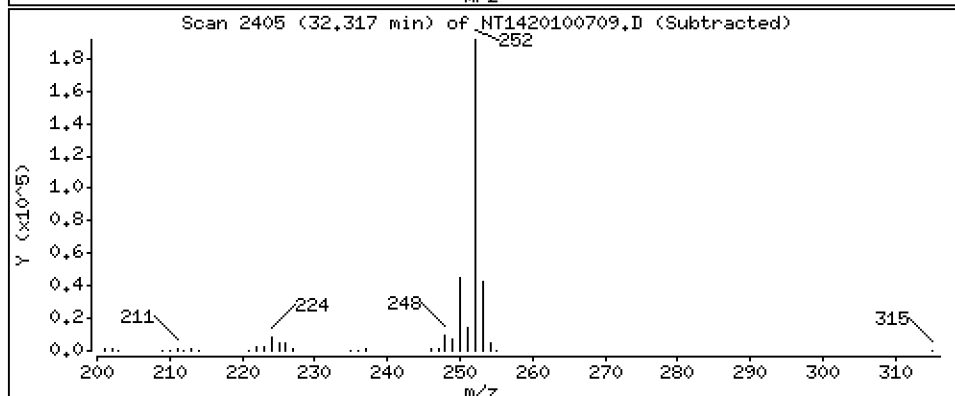
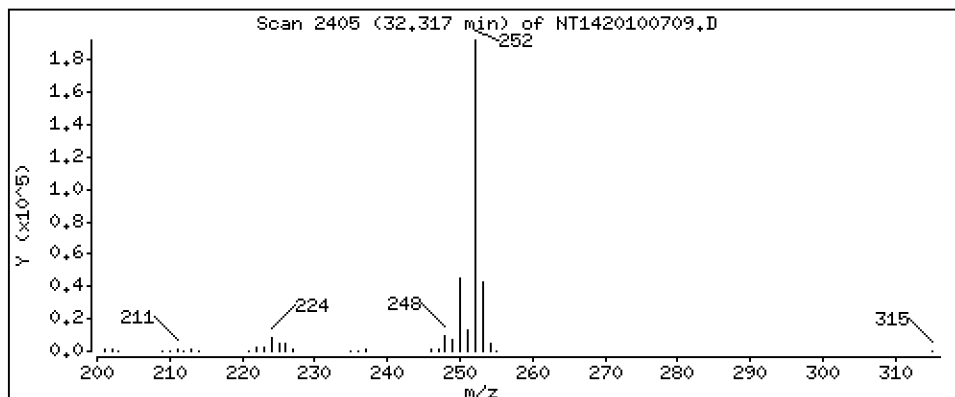
Operator: VTS

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

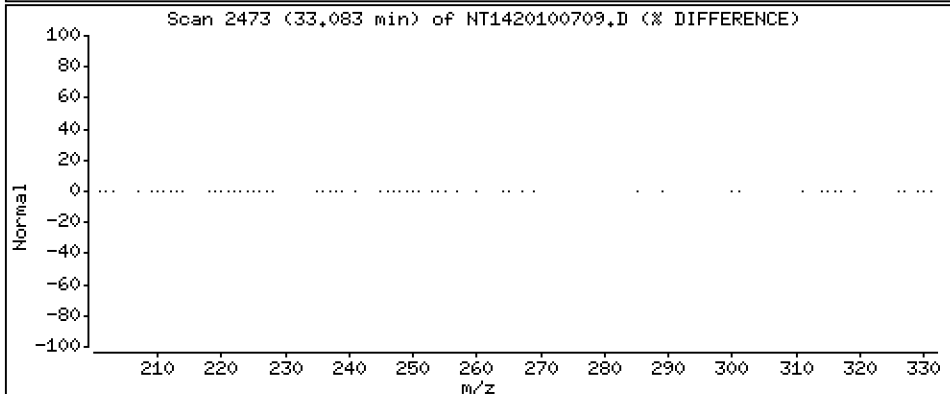
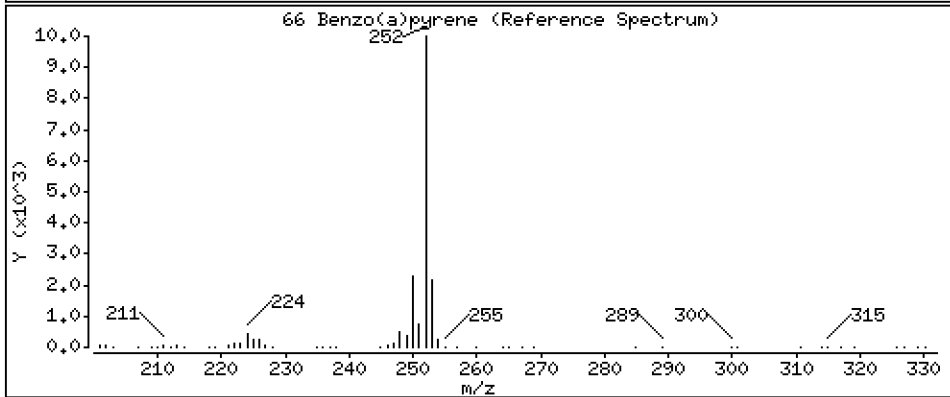
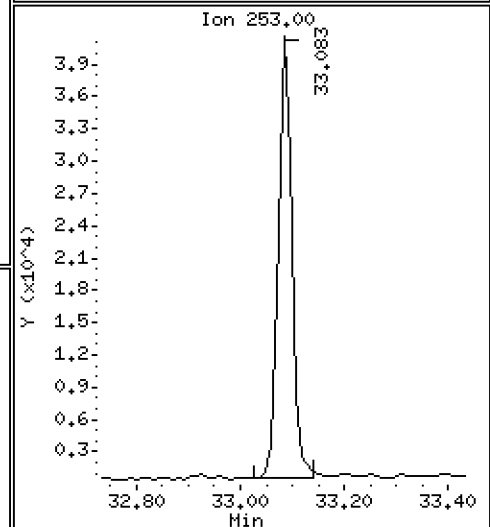
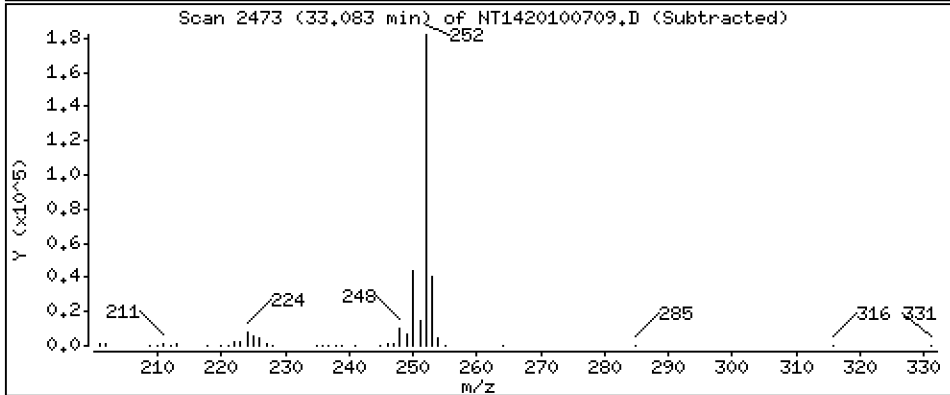
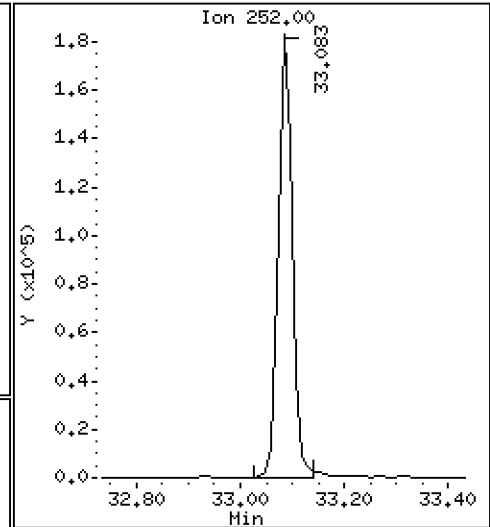
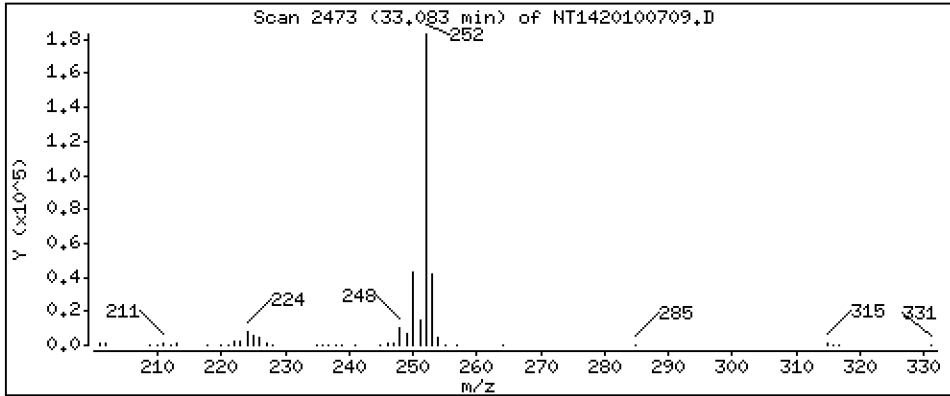
Operator: VTS

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

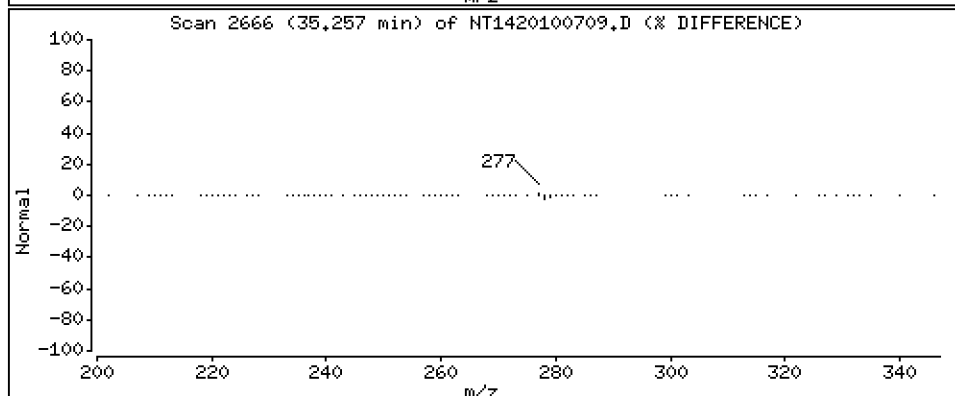
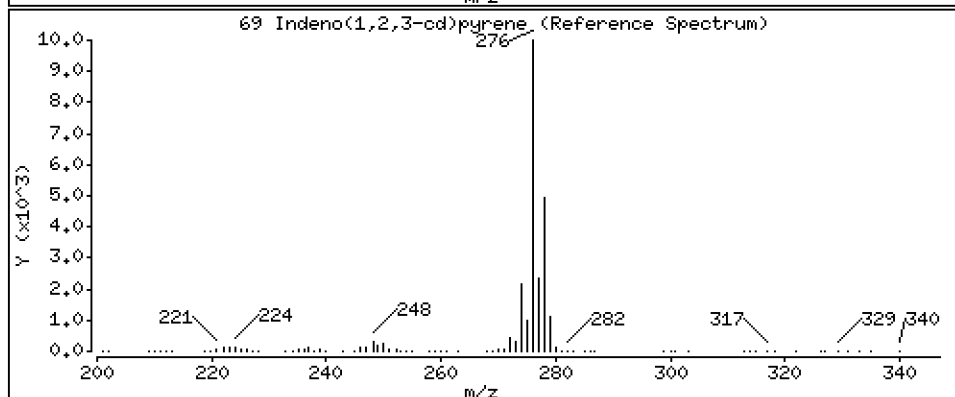
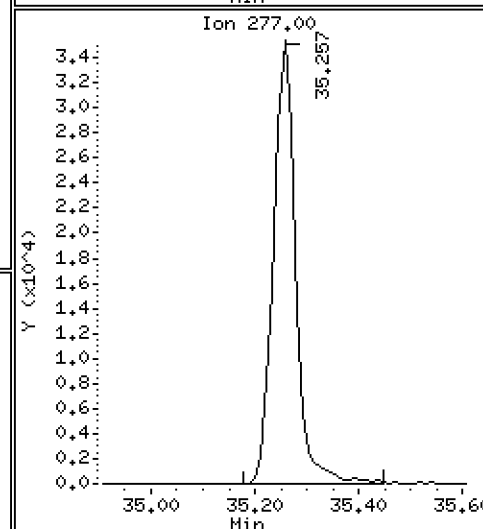
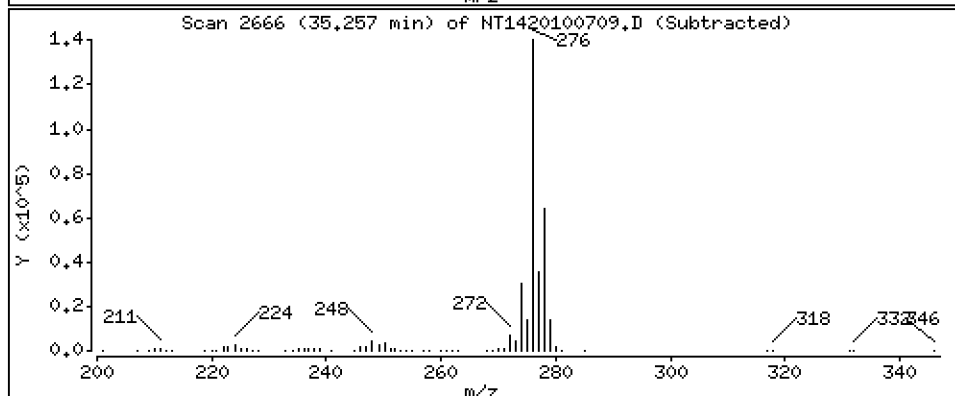
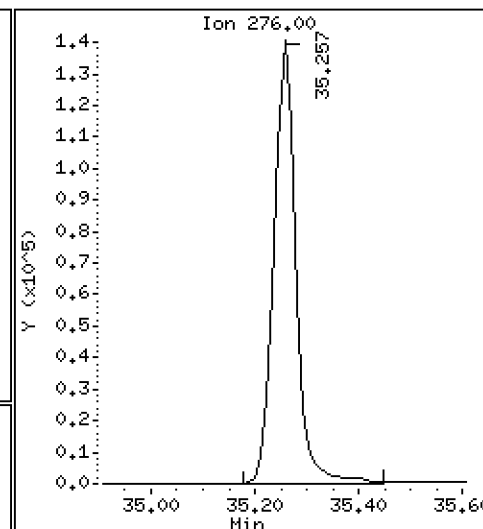
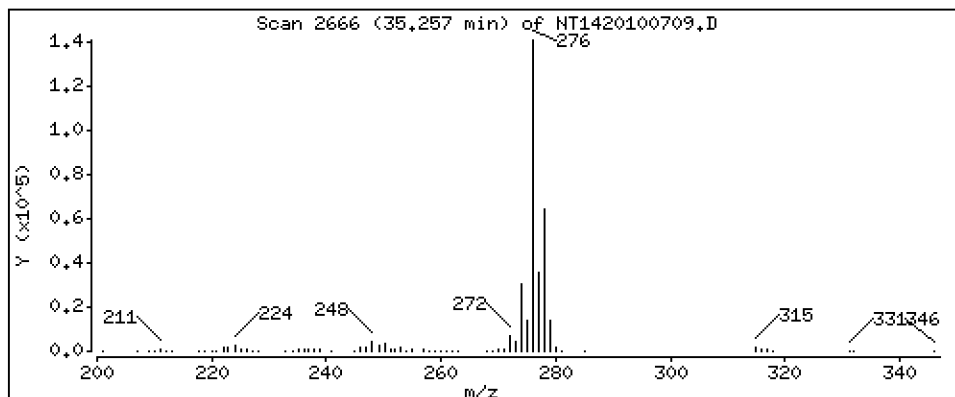
Operator: VTS

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

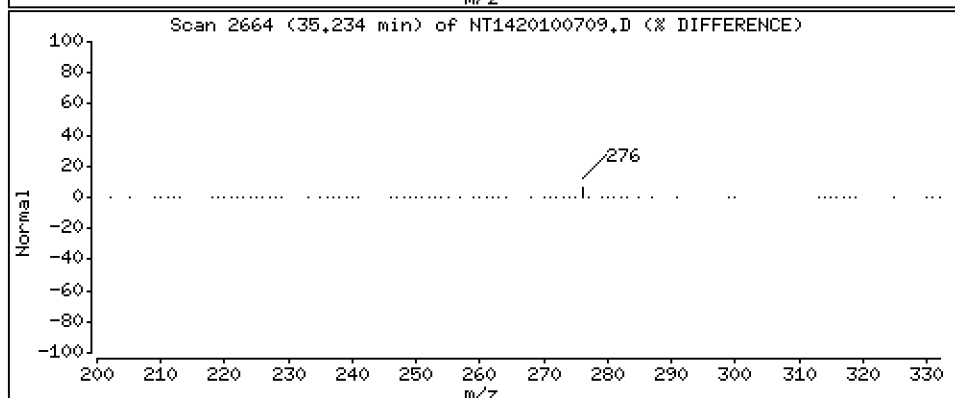
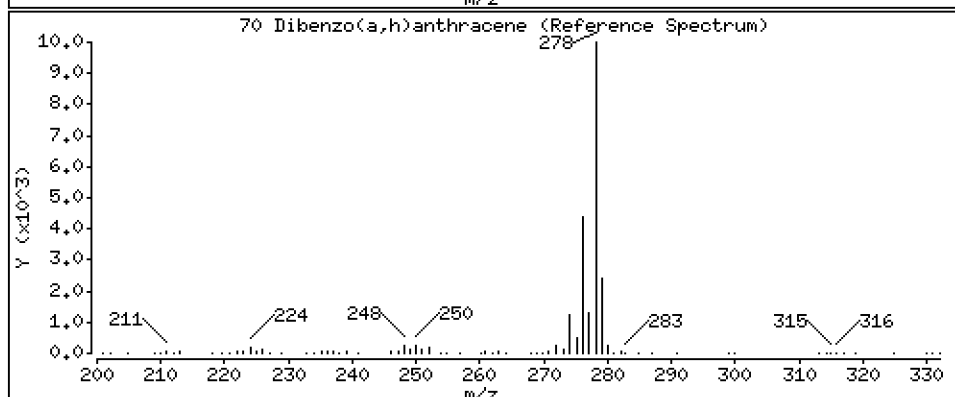
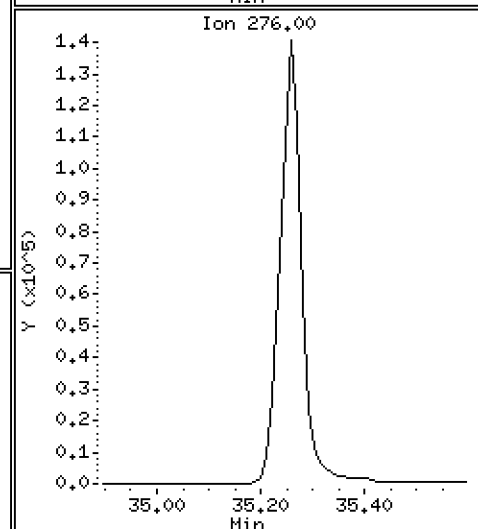
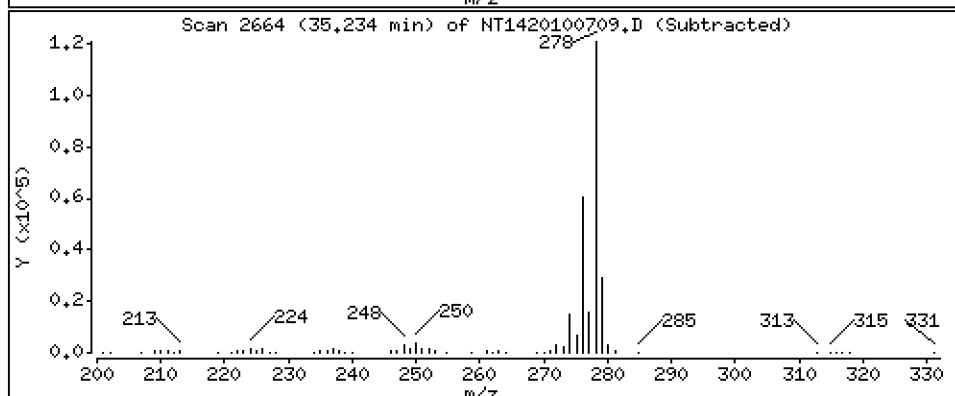
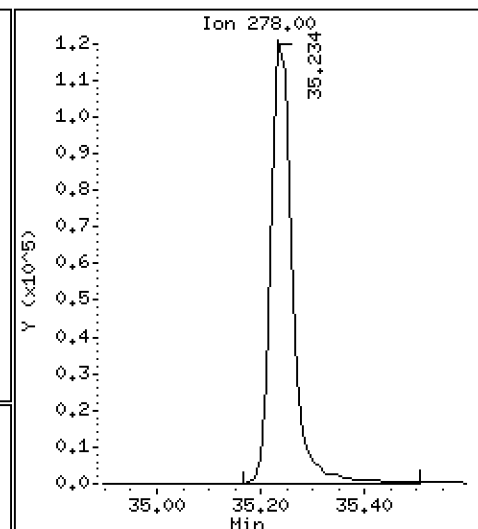
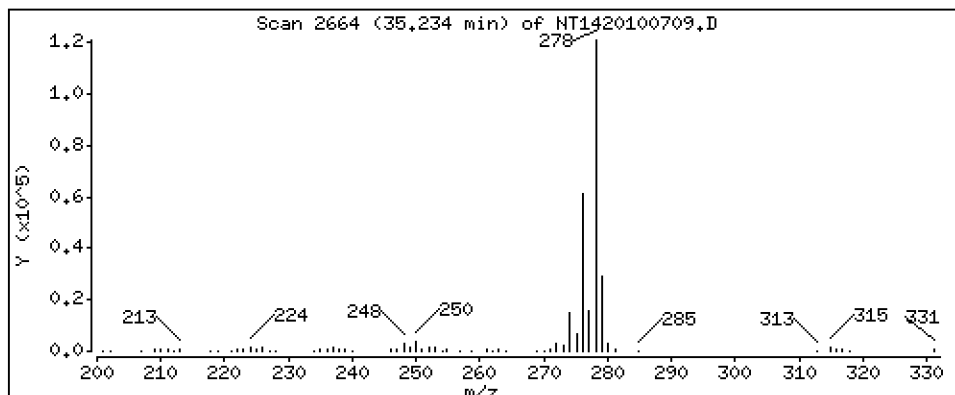
Operator: VTS

Column phase: Rxi-17Sil 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

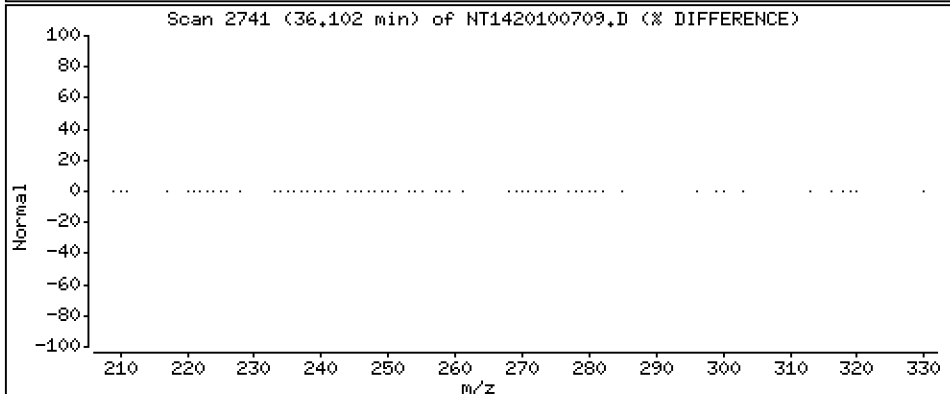
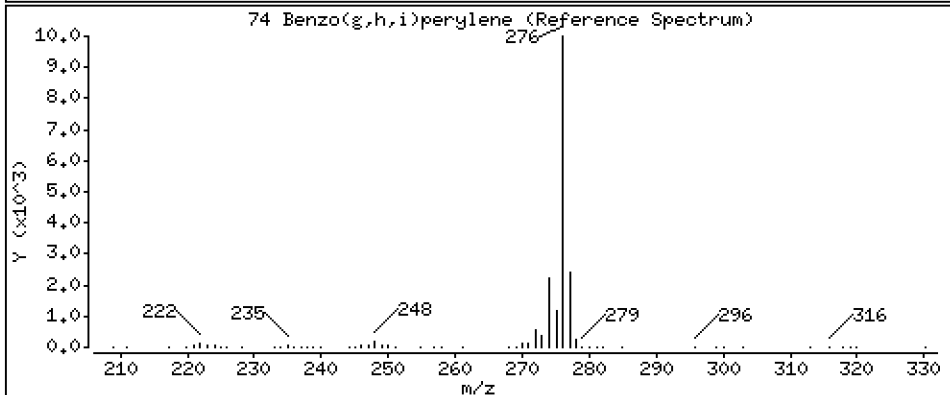
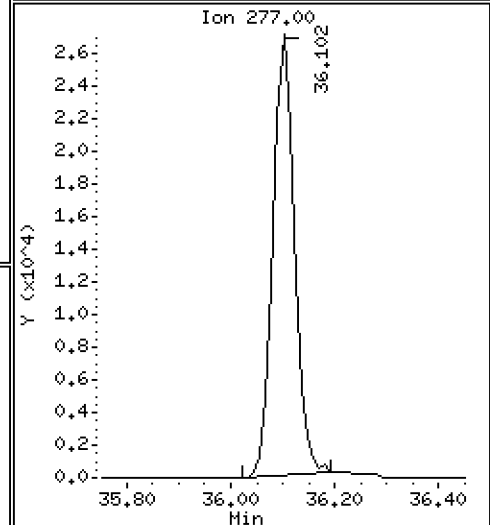
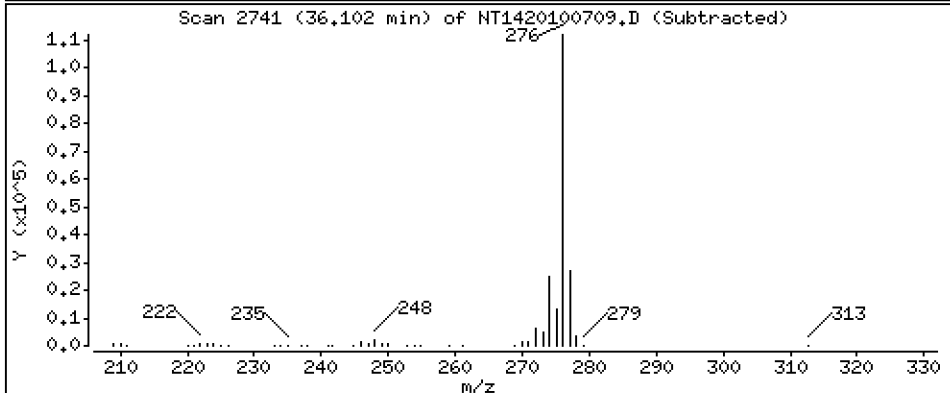
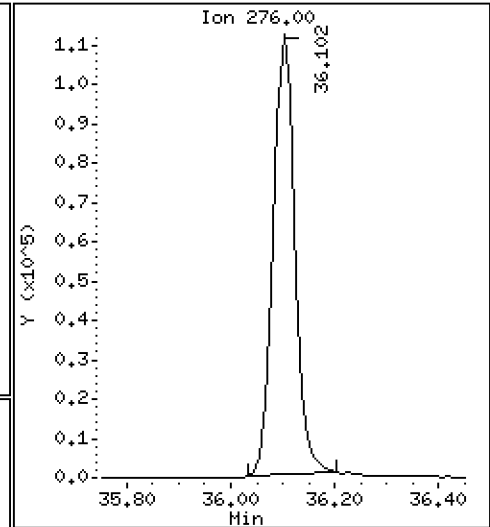
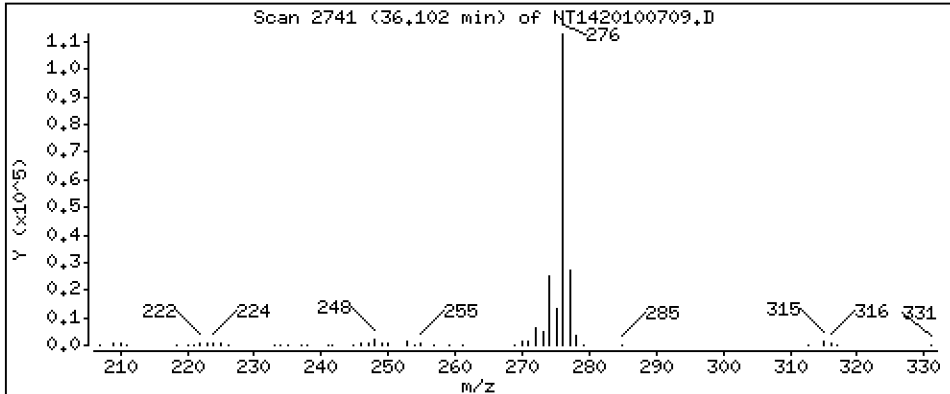
Operator: VTS

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

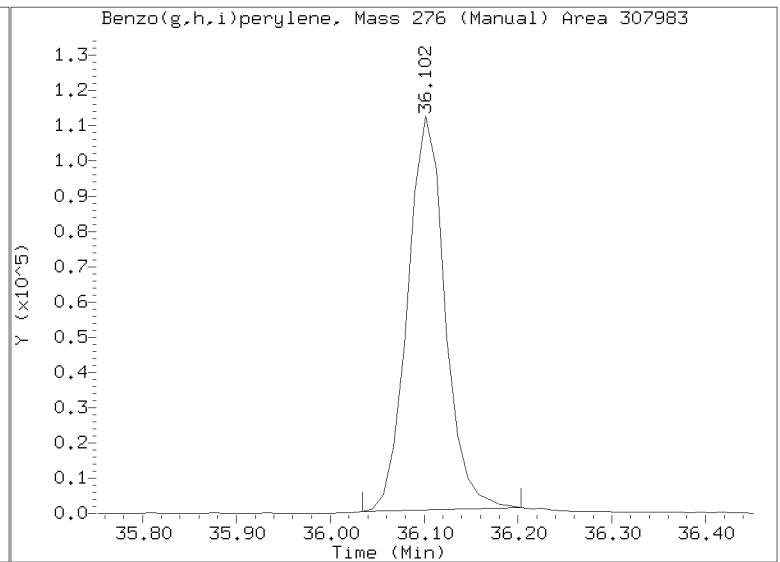
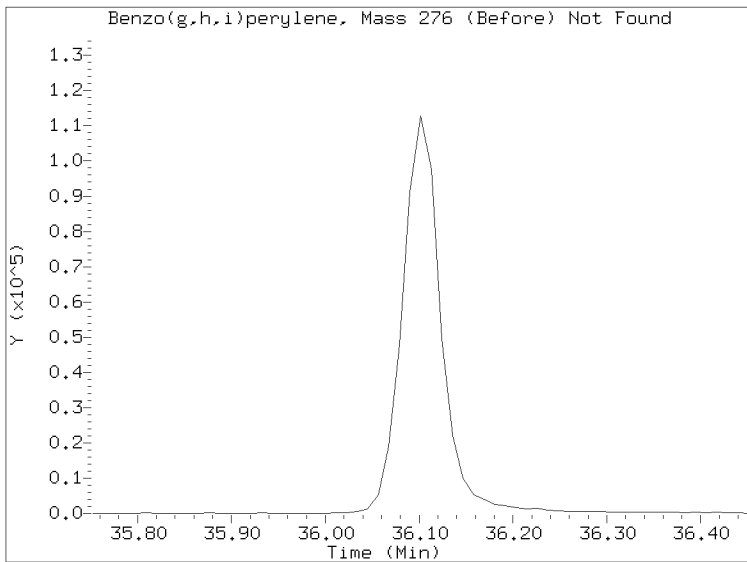
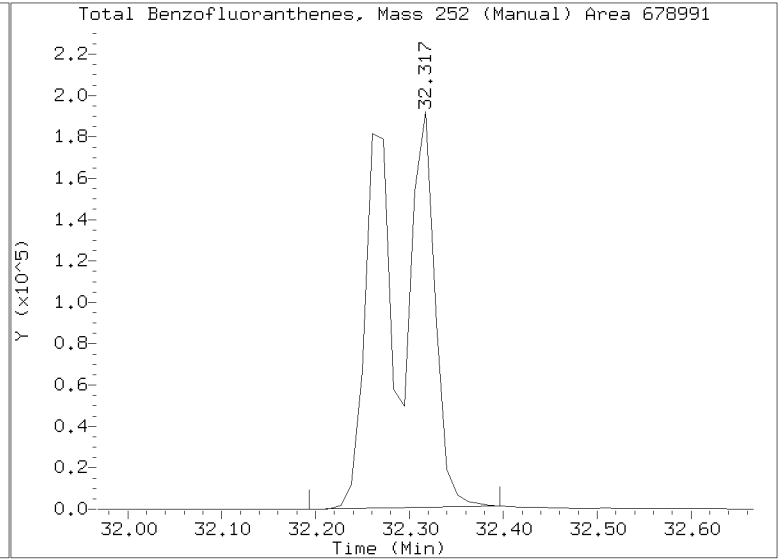
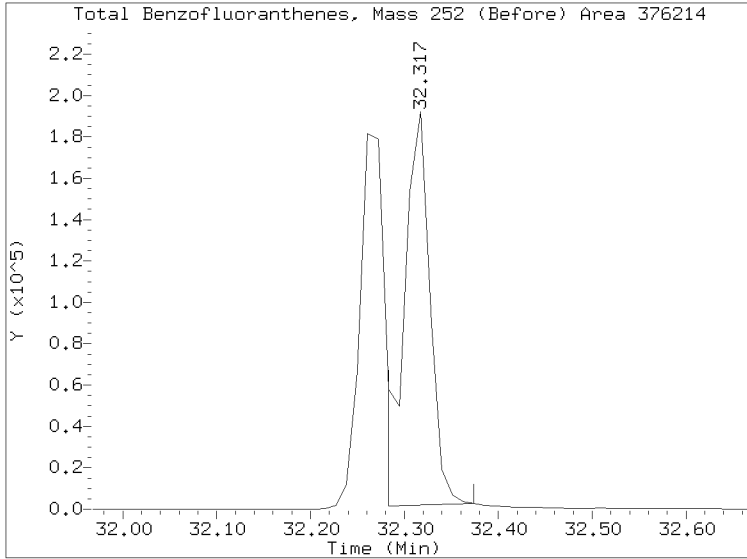
RRT check based on Ccal File: NT1420100711.D

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





INITIAL CALIBRATION CHECK

EPA 8270E-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</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



INITIAL CALIBRATION CHECK

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Instrument ID: NT14

Calibration: DJ00029

Lab File ID: NT1420100711.D

Calibration Date: 10/07/2020

Sequence: SIJ0085

Injection Date: 10/07/20

Lab Sample ID: SIJ0085-ICV1

Injection Time: 18:22

Sequence Name: Initial Cal Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Perylene	A	2.5000	2.6	0.8858103	0.9126193		3.0	+/-20
Benzo(b)naphtho(2,1-d)thiophene	A	2.5000	2.6	1.1757640	1.2120270		3.1	+/-20
Naphthalene-d8	A	2.5000	2.64	0.8160533	0.8602073		5.4	+/-20
Acenaphthene-d10	A	2.5000	2.60	0.4900295	0.5103609		4.2	+/-20
Phenanthrene-d10	A	2.5000	2.62	0.9579158	1.0053270		5.0	+/-20
Chrysene-d12	A	2.5000	2.49	0.6819030	0.6789698		-0.4	+/-20
Perylene-d12	A	2.5000	2.54	0.8269999	0.8397694		1.6	+/-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

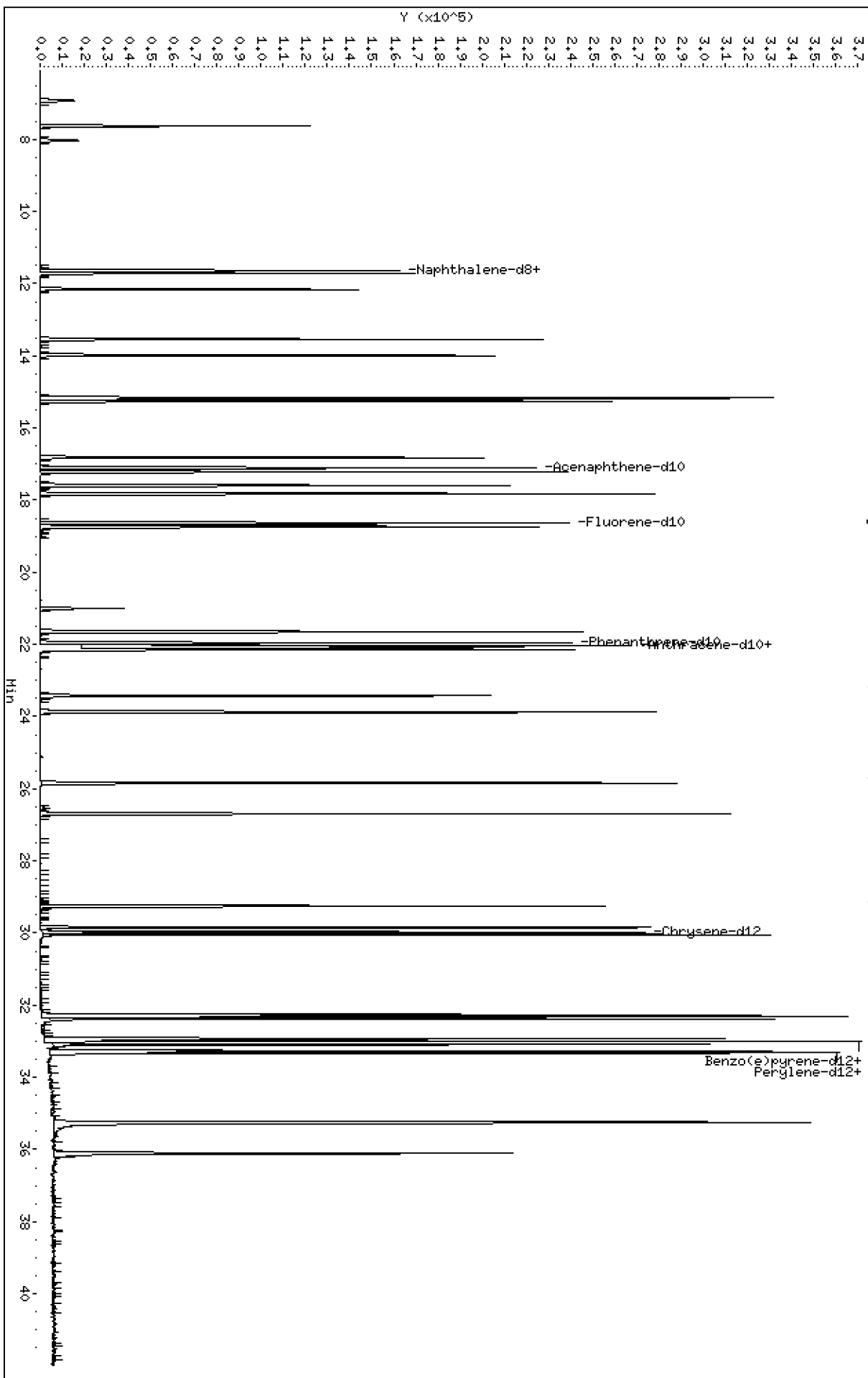
Column phase: Rxi-17S11 MS

Instrument: nt14,i

Operator: VTS

Column diameter: 0.25

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



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201007.b\NT1420100711.D
 Lab Smp Id: SIJ0085-ICV1
 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			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)	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

NONE

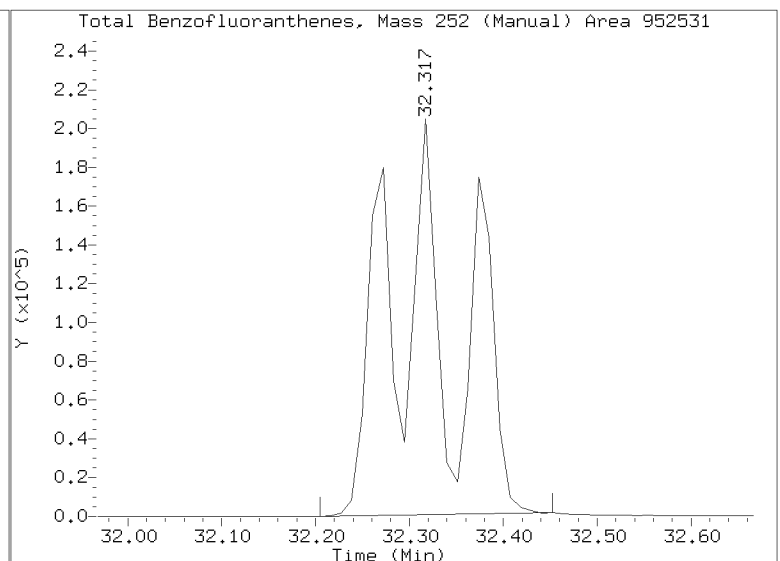
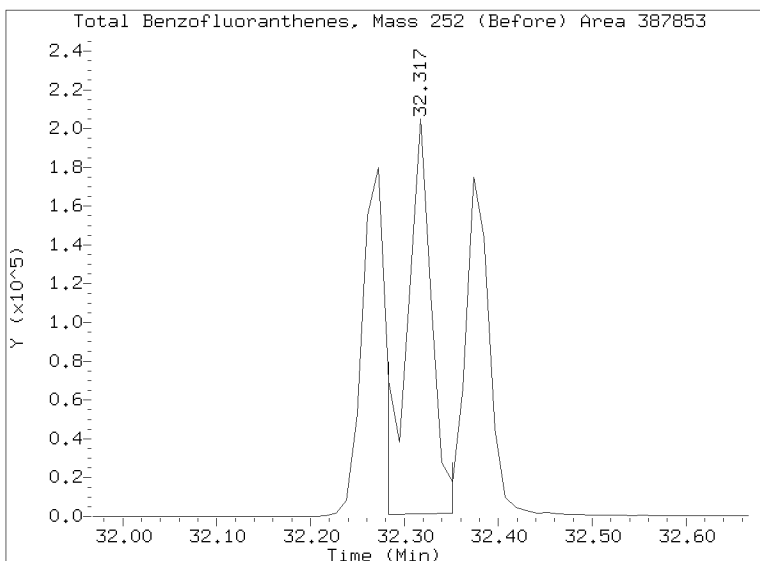
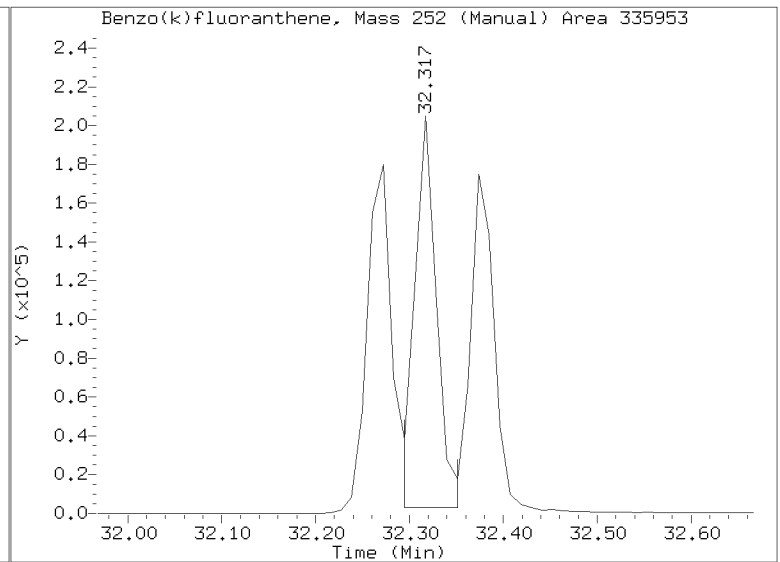
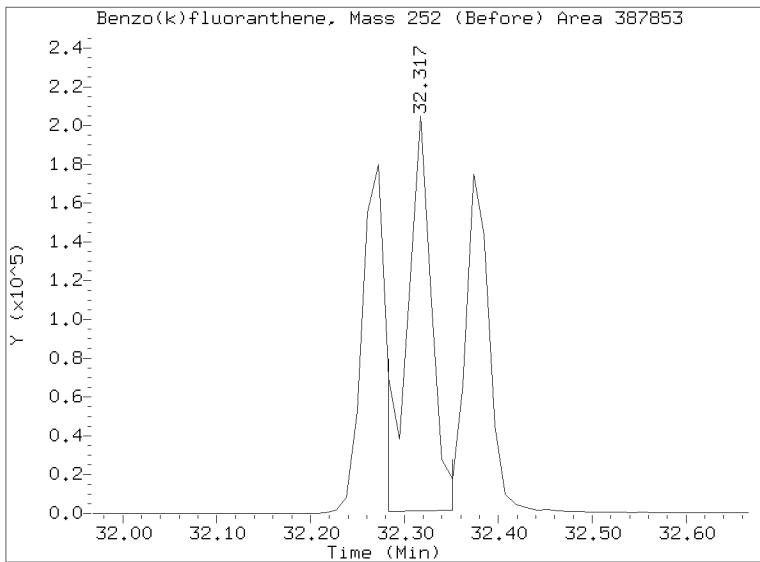
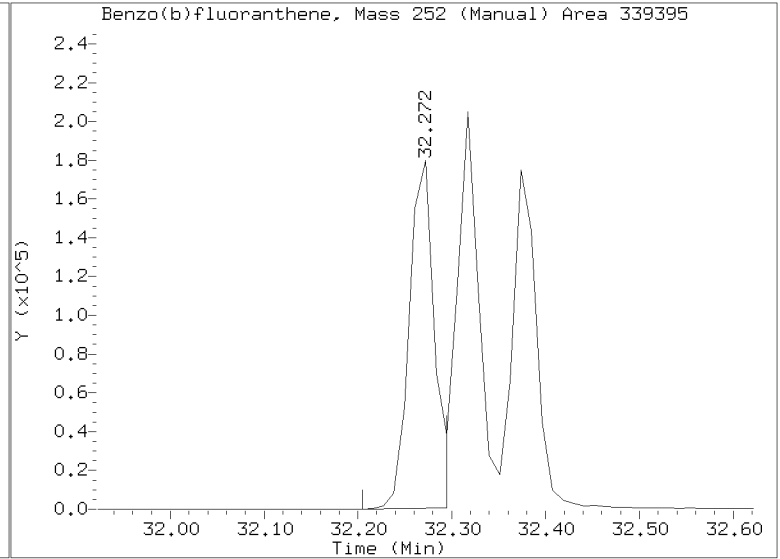
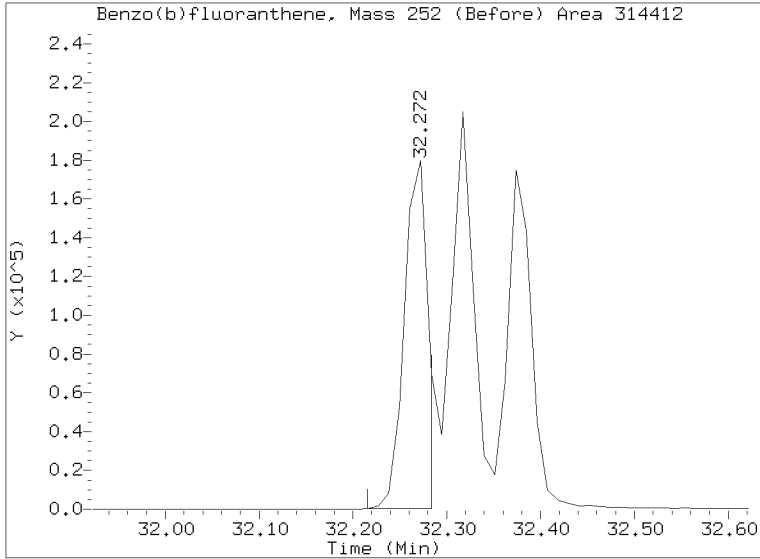
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On Column LOD for nt14.i, 20201007.b\ALKYLPNA.m, TARGETS.sub = 0.0000

* 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



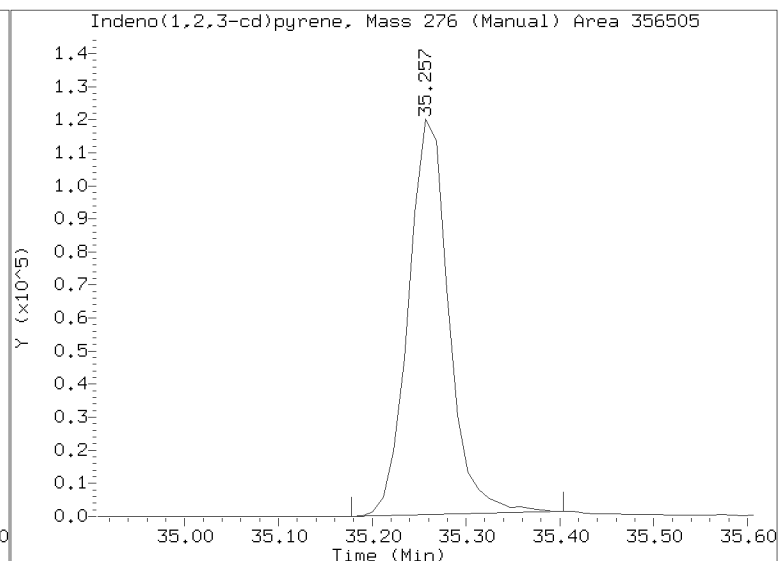
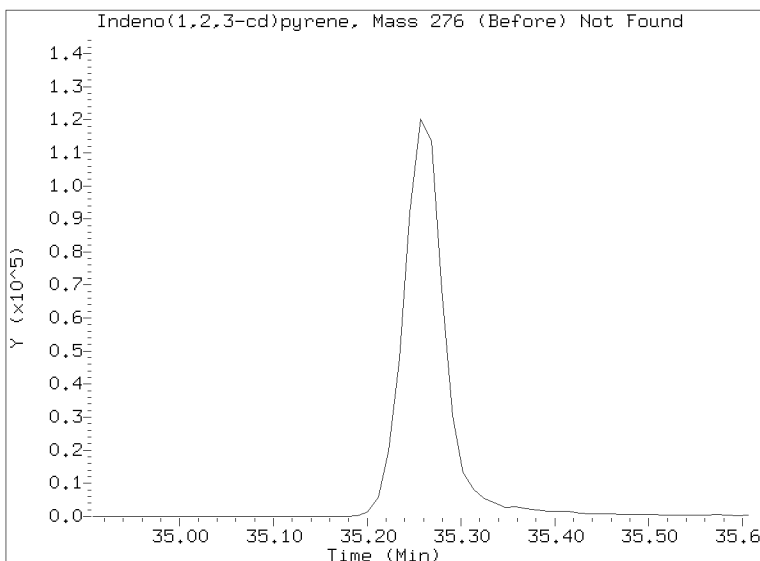
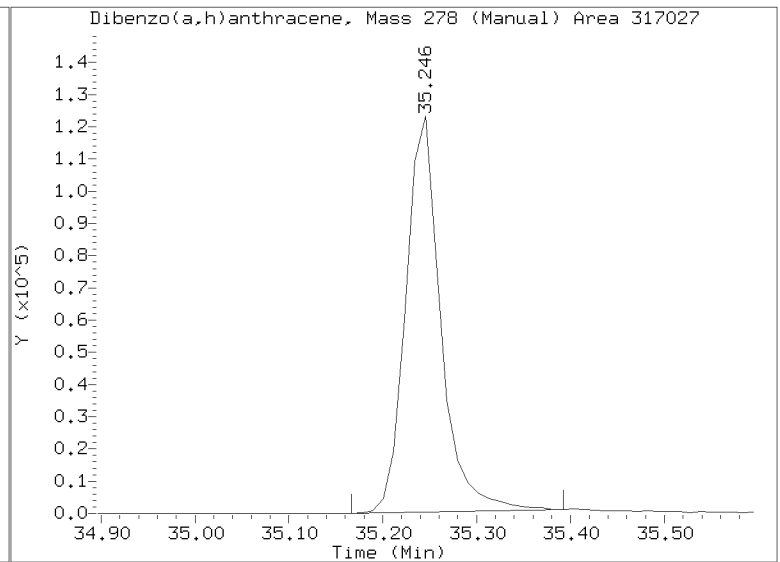
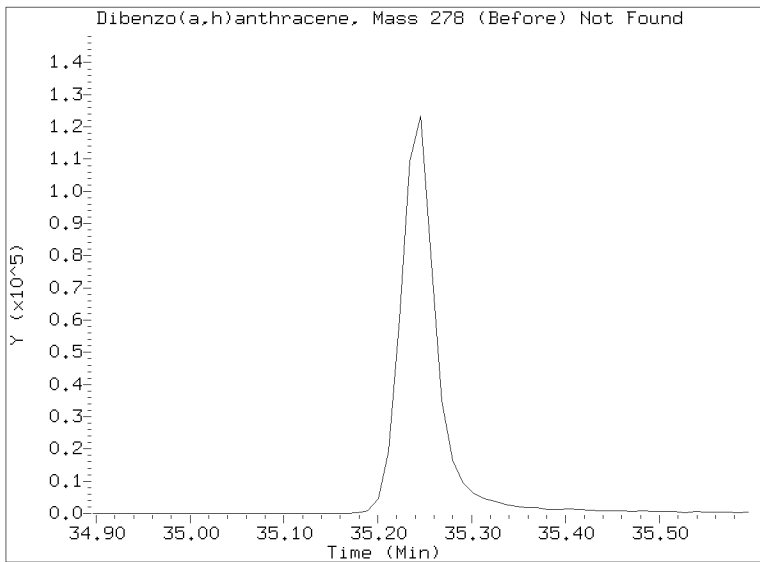
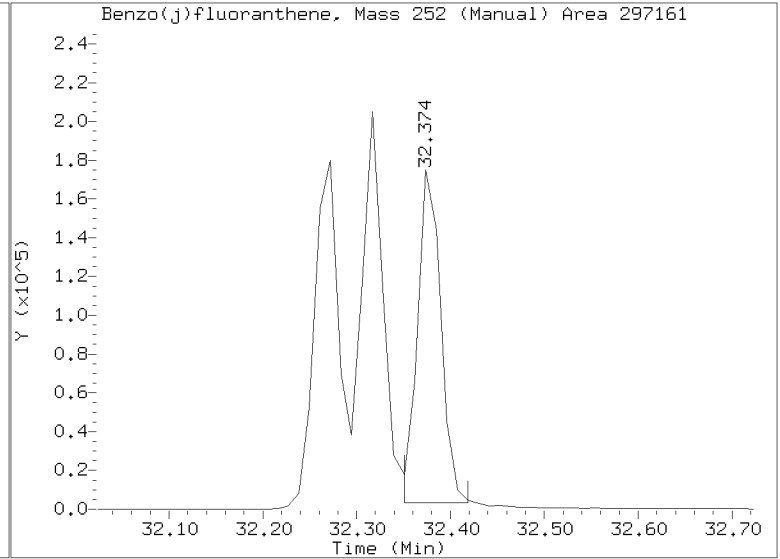
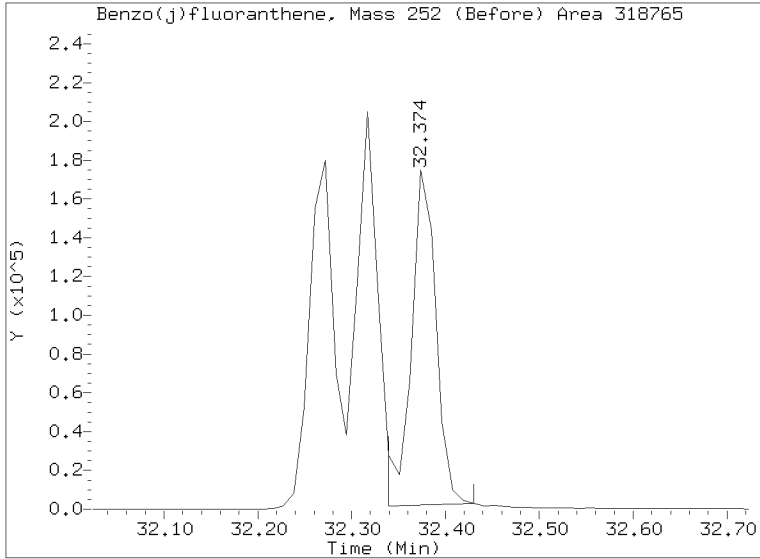
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20201007.b/NT1420100711.D

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>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>NT14</u>	Calibration: <u>DJ00029</u>
Lab File ID: <u>NT1420111004.D</u>	Calibration Date: <u>10/07/2020</u>
Sequence: <u>SIK0139</u>	Injection Date: <u>11/10/20</u>
Lab Sample ID: <u>SIK0139-ICV1</u>	Injection Time: <u>13:58</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	2.7	0.0835887	0.0894562		7.0	+/-20
cis-Decalin	A	2.5000	2.7	0.0628966	0.0672058		6.8	+/-20
Naphthalene	A	2.5000	2.5	0.8164379	0.8262331		1.2	+/-20
1-Methylnaphthalene	A	2.5000	2.4	0.5226651	0.4871054		-2.8	+/-20
2-Methylnaphthalene	A	2.5000	2.6	0.4976918	0.5198459		4.4	+/-20
Biphenyl	A	2.5000	2.5	0.7490419	0.7593270		1.4	+/-20
2,6-Dimethylnaphthalene	A	2.5000	2.6	0.5468360	0.5622537		2.8	+/-20
Acenaphthylene	A	2.5000	2.6	0.8966517	0.9355063		4.3	+/-20
Acenaphthene	A	2.5000	2.6	0.5873971	0.6048469		3.0	+/-20
Dibenzofuran	A	2.5000	2.6	0.8521596	0.8785316		3.1	+/-20
2,3,5-Trimethylnaphthalene	A	2.5000	2.6	0.5544134	0.5822334		5.0	+/-20
Fluorene	A	2.5000	2.6	0.6643144	0.6911383		4.0	+/-20
Benzo(b)thiophene	A	2.5000	2.5	0.6860043	0.6873689		0.2	+/-20
Phenanthrene	A	2.5000	2.4	1.1075820	1.0729690		-3.1	+/-20
Anthracene	A	2.5000	2.5	1.0885140	1.0816070		-0.6	+/-20
Carbazole	A	2.5000	2.6	0.9426380	0.9753277		3.5	+/-20
1-Methylphenanthrene	A	2.5000	2.7	0.8129613	0.8739908		7.5	+/-20
Fluoranthene	A	2.5000	2.7	1.2224260	1.3035390		6.6	+/-20
Dibenzothiophene	A	2.5000	2.6	0.9560816	0.9972866		4.3	+/-20
Pyrene	A	2.5000	2.6	1.2899540	1.3615050		5.6	+/-20
Benzo(a)anthracene	A	2.5000	3.0	0.8634119	1.0482470		21.4	+/-20 *
Chrysene	A	2.5000	2.5	0.8581534	0.8613227		0.4	+/-20
Benzo(b)fluoranthene	A	2.5000	2.8	0.9748863	1.0894260		11.8	+/-20
Benzo(j)fluoranthene	A	2.5000	2.6	0.8589085	0.8908059		3.7	+/-20
Benzo(k)fluoranthene	A	2.5000	2.9	0.9825948	1.1510910		17.2	+/-20
Benzo(a)fluoranthene, Total	A	7.5000	7.8	0.9045439	0.9434029		4.3	+/-20
Benzo(e)pyrene	A	2.5000	2.5	0.8926013	0.9009355		0.9	+/-20
Benzo(a)pyrene	A	2.5000	2.6	0.8433439	0.8880030		5.3	+/-20
Indeno(1,2,3-cd)pyrene	A	2.5000	2.6	1.0443470	1.0852300		3.9	+/-20
Dibenzo(a,h)anthracene	A	2.5000	2.6	0.9226661	0.9685029		5.0	+/-20
Benzo(g,h,i)perylene	A	2.5000	2.6	0.9174617	0.9457268		3.1	+/-20

* Values outside of QC limits



INITIAL CALIBRATION CHECK EPA 8270E-SIM

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Instrument ID: NT14 Calibration: DJ00029
Lab File ID: NT1420111004.D Calibration Date: 10/07/2020
Sequence: SIK0139 Injection Date: 11/10/20
Lab Sample ID: SIK0139-ICV1 Injection Time: 13:58
Sequence Name: Initial Cal Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Perylene	A	2.5000	2.6	0.8858103	0.9063453		2.3	+/-20
Benzo(b)naphtho(2,1-d)thiophene	A	2.5000	2.7	1.1757640	1.2923920		9.9	+/-20
Naphthalene-d8	A	2.5000	2.83	0.8160533	0.9221916		13.0	+/-20
Acenaphthene-d10	A	2.5000	2.56	0.4900295	0.5021142		2.5	+/-20
Phenanthrene-d10	A	2.5000	2.99	0.9579158	1.1448060		19.5	+/-20
Chrysene-d12	A	2.5000	2.43	0.6819030	0.6627665		-2.8	+/-20
Perylene-d12	A	2.5000	2.48	0.8269999	0.8217859		-0.6	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt14,1\20201110,6\NT1420111004.D

Date: 10-NOV-2020 13:58

Client ID:

Sample Info: SIK0139-ICW1

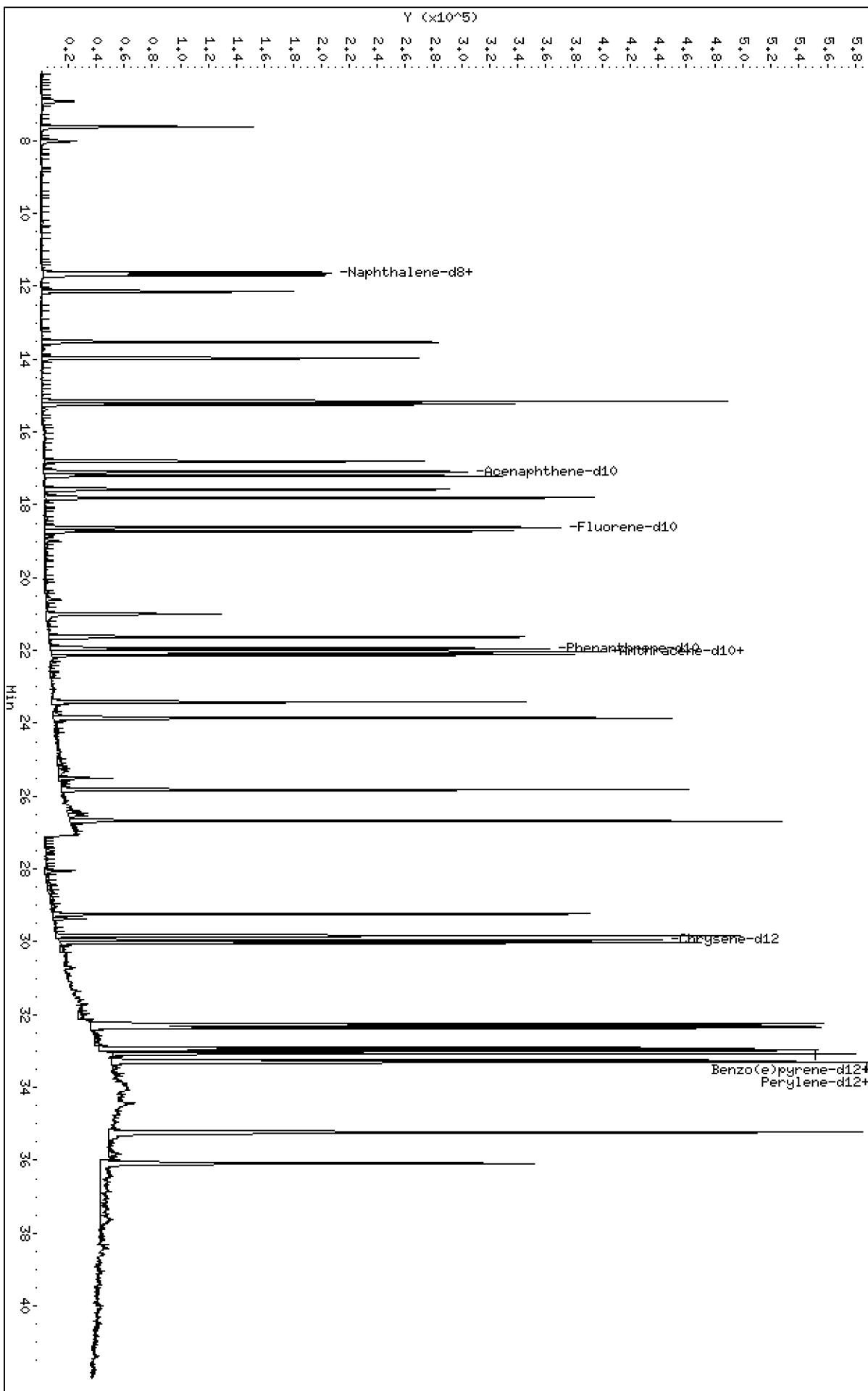
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Instrument: nt14,1

Operator: VTS

Column diameter: 0.25

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ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20201110.b\NT1420111004.D
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 Inj Date : 10-NOV-2020 13:58
 Operator : VTS
 Smp Info : SIK0139-ICV1
 Misc Info :
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 Method : \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
 Meth Date : 12-Nov-2020 08:02 yev
 Cal Date : 07-OCT-2020 15:56
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE
 Target Version: 4.14
 Processing Host: ORGDATA102

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)	35219	2.50000	2.675
2 cis-Decalin	138	8.014	8.014	(0.430)	26459	2.50000	2.671
\$ 6 Naphthalene-d8	136	11.630	11.630	(0.625)	363068	2.50000	2.825
7 Naphthalene	128	11.696	11.696	(0.628)	325289	2.50000	2.530
12 Benzo(b)thiophene	134	12.135	12.135	(0.652)	270618	2.50000	2.505
16 2-Methylnaphthalene	141	13.520	13.520	(0.726)	204664	2.50000	2.611
17 1-methylnaphthalene	141	13.971	13.971	(0.750)	191774	2.50000	2.430
18 Biphenyl	154	15.158	15.158	(0.814)	298948	2.50000	2.534
19 2,6-Dimethylnaphthalene	156	15.246	15.246	(0.819)	221360	2.50000	2.570
20 Acenaphthylene	152	16.806	16.806	(0.903)	368310	2.50000	2.608
\$ 21 Acenaphthene-d10	164	17.092	17.092	(0.918)	197683	2.50000	2.562
22 Acenaphthene	153	17.202	17.202	(0.924)	238129	2.50000	2.574
23 Dibenzofuran	168	17.575	17.575	(0.944)	345879	2.50000	2.577
24 1,6,7-Trimethylnaphthalene	170	17.806	17.806	(0.956)	229226	2.50000	2.625
* 25 Fluorene-d10	176	18.621	18.621	(1.000)	314961	2.00000	
26 Fluorene	166	18.723	18.723	(1.005)	272102	2.50000	2.601
30 Dibenzothiophene	184	21.626	21.626	(1.161)	392633	2.50000	2.608
\$ 35 Phenanthrene-d10	188	21.941	21.941	(0.995)	428056	2.50000	2.988
36 Phenanthrene	178	22.029	22.029	(0.999)	401195	2.50000	2.422
* 250 Anthracene-d10	188	22.062	22.062	(1.000)	299129	2.00000	
37 Anthracene	178	22.128	22.128	(1.003)	404425	2.50000	2.484
42 Carbazole	167	23.414	23.414	(1.061)	364686	2.50000	2.587
43 1-Methylphenanthrene	192	23.854	23.854	(1.081)	326795	2.50000	2.688
44 Fluoranthene	202	25.822	25.822	(1.170)	487408	2.50000	2.666
46 Pyrene	202	26.679	26.679	(1.209)	509082	2.50000	2.639
51 Naphthobenzothiophene	234	29.234	29.234	(1.325)	483240	2.50000	2.748
55 Benzo(a)anthracene	228	29.828	29.828	(0.906)	593895	2.50000	3.035
\$ 56 Chrysene-d12	240	29.952	29.952	(0.910)	375497	2.50000	2.430
57 Chrysene	228	30.031	30.031	(0.912)	487991	2.50000	2.509
62 Benzo(b)fluoranthene	252	32.249	32.249	(0.980)	617225	2.50000	2.794
63 Benzo(k)fluoranthene	252	32.306	32.306	(0.982)	652162	2.50000	2.929
293 Benzo(j)fluoranthene	252	32.362	32.362	(0.983)	504695	2.50000	2.593
246 Total Benzofluoranthenes	252	32.306	32.306	(0.982)	1603483	7.50000	7.822 (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	32.914	32.914	(1.000)	453248	2.00000		
64 Benzo(e)pyrene	252	32.970	32.970	(1.002)	510434	2.50000	2.523	
66 Benzo(a)pyrene	252	33.072	33.072	(1.005)	503107	2.50000	2.632	
\$ 67 Perylene-d12	264	33.252	33.252	(1.010)	465591	2.50000	2.484	
68 Perylene	252	33.308	33.308	(1.012)	513499	2.50000	2.558	
69 Indeno(1,2,3-cd)pyrene	276	35.245	35.245	(1.071)	614848	2.50000	2.598 (M)	
70 Dibenzo(a,h)anthracene	278	35.223	35.223	(1.070)	548715	2.50000	2.624	
74 Benzo(g,h,i)perylene	276	36.079	36.079	(1.096)	535811	2.50000	2.577	

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i Calibration Date: 10-NOV-2020
Lab File ID: NT1420111004.D Calibration Time: 12:21
Lab Smp Id: SIK0139-ICV1
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20201110.b\ALKYLPNA.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	264137	132069	528274	314961	19.24
250 Anthracene-d10	238965	119483	477930	299129	25.18
251 Benzo(e)pyrene-d1	371464	185732	742928	453248	22.02

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
25 Fluorene-d10	18.62	18.12	19.12	18.62	0.00
250 Anthracene-d10	22.06	21.56	22.56	22.06	0.00
251 Benzo(e)pyrene-d1	32.91	32.41	33.41	32.91	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 - NT1420111004.D

Lab ID: SIK0139-ICV1

nt14.i, 20201110.b\ALKYLPNA.m, 10-NOV-2020 13:58

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

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

NONE

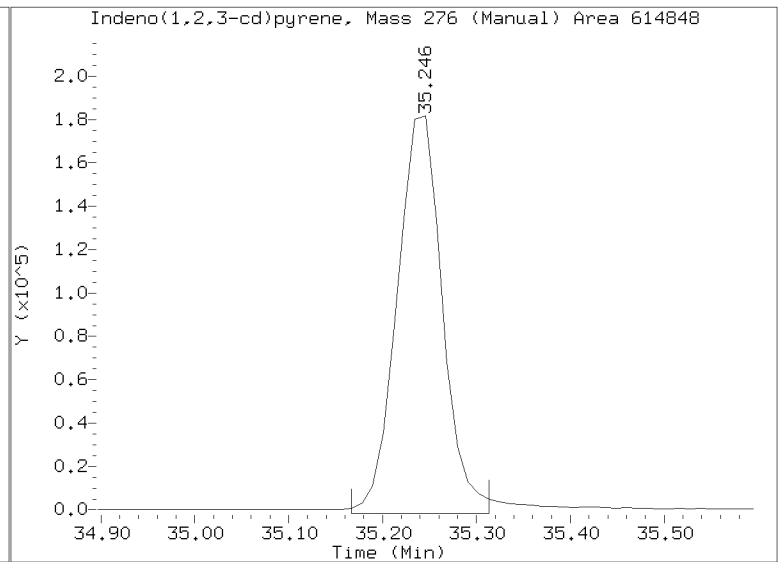
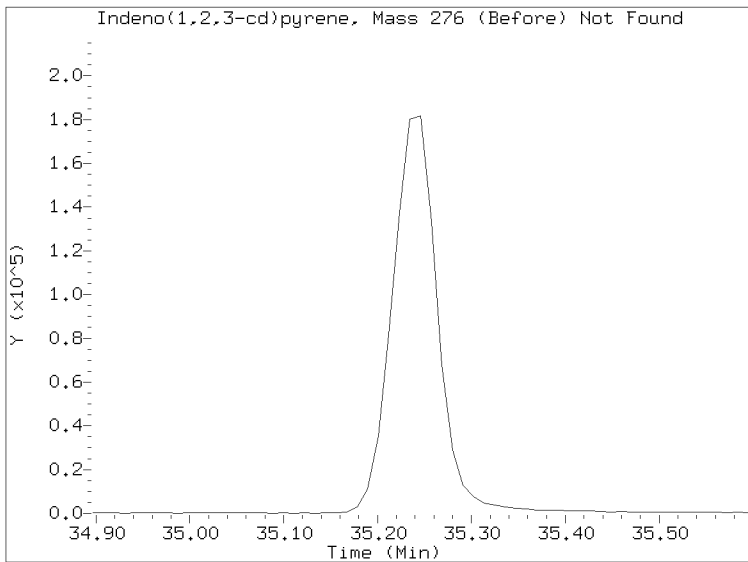
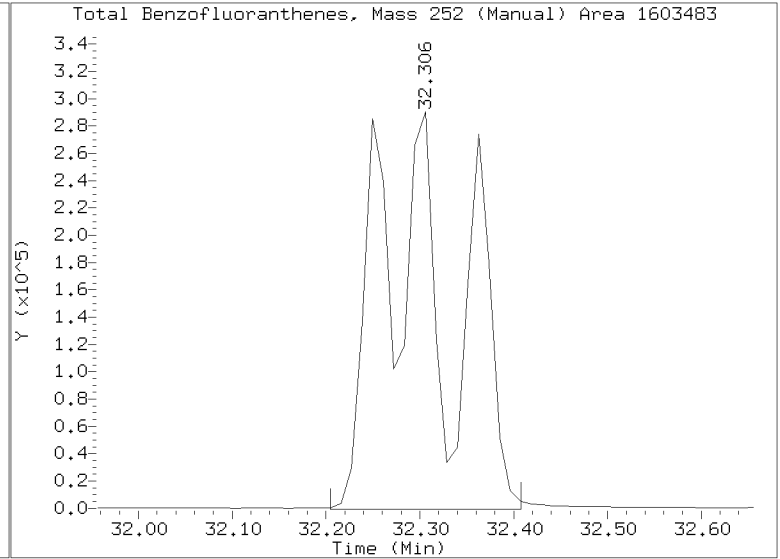
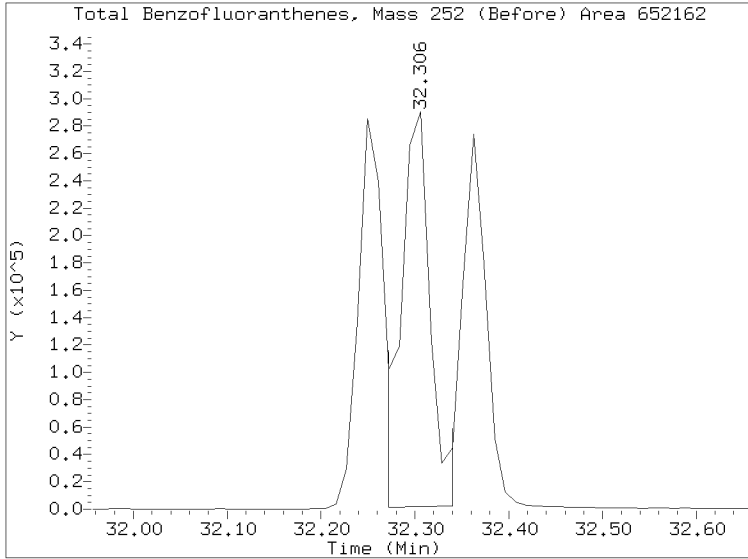
No RRT check. Ccal file.

On Column LOD for nt14.i, 20201110.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/20201110.b/NT1420111004.D
Injection Date: 10-NOV-2020 13:58
Lab ID: SIK0139-ICV1 Client ID:
Report Date: 11/12/2020 08:02



Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b

Instrument: nt14.i Date: 10-NOV-2020 Method: 20201110.b\ALKYLPNA.m

INITIAL CAL: 07-OCT-2020

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT1420111004.D 10-NOV-2020 13:58

Compound	%D

Benzo(a)anthracene	21.4



INITIAL CALIBRATION CHECK

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Instrument ID: NT8 Calibration: DG00090
Lab File ID: NT820111202.D Calibration Date: 07/30/2020
Sequence: SIK0176 Injection Date: 11/12/20
Lab Sample ID: SIK0176-ICV1 Injection Time: 10:22
Sequence Name: Initial Cal Check

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Tributyltin Ion	A	0.77300	0.782	0.7420999	0.6400882	0.01	1.1	+/-20
Triphenyltin	A	1.5918	1.37	0.0748237	0.0597680	0.01	-13.9	+/-20
Tripropyltin	A	0.74430	0.782	1.0701380	0.9434665	0.01	5.1	+/-20
Tetraphenyltin	A	2.0000	2.00	26767.3300	1.0000		0.0	
p-Terphenyl-d14	A	0.20000	0.200	210081.7000	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt8,1\20201112,B\N1820111202.D

Date: 12-NOV-2020 10:22

Client ID:

Sample Info: ICV201112

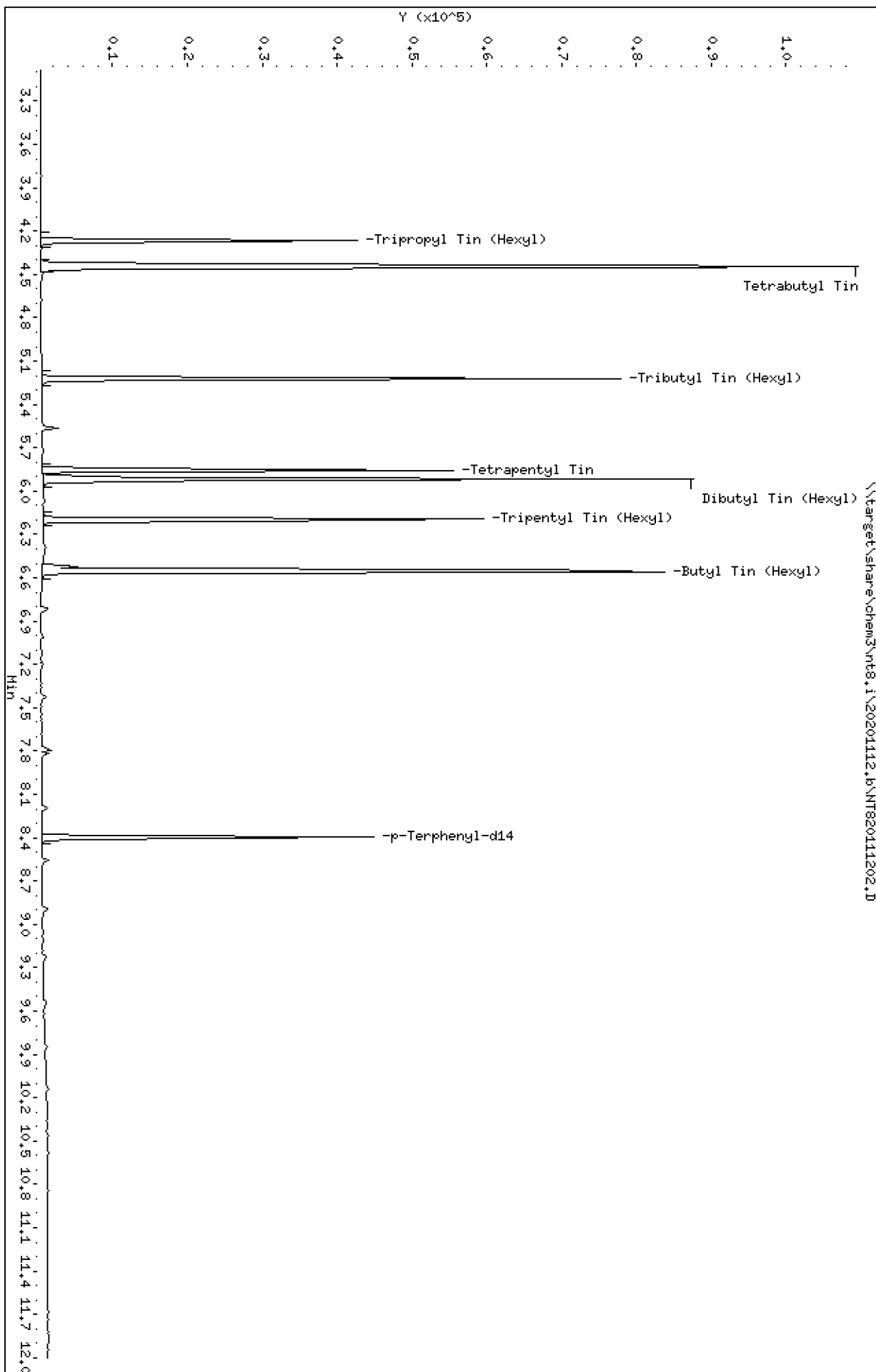
Column phase: ZB-5msi

Instrument: nt8,1

Operator: JZ

Column diameter: 0.25

Page 1



ARI Labs, Inc.

Krone1989/8270D-SIM

Data file : \\target\share\chem3\nt8.i\20201112.b\NT820111202.D
 Lab Smp Id: SIK0176-ICV1
 Inj Date : 12-NOV-2020 10:22
 Operator : JZ Inst ID: nt8.i
 Smp Info : ICV201112
 Misc Info : 20-
 Comment : 2 ul Injection
 Method : \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
 Meth Date : 12-Nov-2020 12:00 nt8.i Quant Type: ISTD
 Cal Date : 30-JUL-2020 12:40 Cal File: N820073003.D
 Als bottle: 2 Continuing Calibration Sample
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: sedmdl.sub
 Target Version: 4.14
 Processing Host: ORGDATA22

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	AMOUNTS	
							CAL-AMT	ON-COL
	MASS						(ug/mL)	(ug/mL)
=====	=====		=====	=====	=====	=====	=====	=====
\$ 1 Tripropyl Tin (Hexyl)	291		4.263	4.263	(0.728)	23097	1.00000	1.051
2 Tetrabutyl Tin	289		4.450	4.450	(0.760)	19126	1.00000	1.027
3 Tributyl Tin (Hexyl)	319		5.221	5.221	(0.892)	15670	1.00000	1.011
* 4 Tetrapentyl Tin	333		5.856	5.856	(1.000)	48962	2.00000	
5 Dibutyl Tin (Hexyl)	347		5.916	5.916	(0.705)	19386	2.00000	1.711
\$ 6 Tripentyl Tin (Hexyl)	347		6.194	6.194	(0.738)	24573	2.00000	1.721
7 Butyl Tin (Hexyl)	347		6.557	6.557	(0.781)	30539	2.00000	1.832
* 8 p-Terphenyl-d14	244		8.396	8.396	(1.000)	41114	0.20000	

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt8.i Calibration Date: 09-NOV-2020
Lab File ID: NT820111202.D Calibration Time: 10:22
Lab Smp Id: SIK0176-ICV1
Analysis Type: SV Level:
Quant Type: ISTD Sample Type:
Operator: JZ
Method File: \\target\share\chem3\nt8.i\20201112.b\TBT200730.m
Misc Info: 20-

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	54767	27384	109534	48962	-10.60
8 p-Terphenyl-d14	45248	22624	90496	41114	-9.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
4 Tetrapentyl Tin	5.86	5.36	6.36	5.86	0.00
8 p-Terphenyl-d14	8.40	7.90	8.90	8.40	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 - NT820111202.D

Lab ID: SIK0176-ICV1

nt8.i, 20201112.b\TBT200730.m, 12-NOV-2020 10:22

RT CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt8.i, 20201112.b\TBT200730.m, sedmdl.sub = 0.0000

Exception: Tripropyl Tin (Hexyl) (Surr) 0.0010

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20201112.b

Instrument: nt8.i Date: 12-NOV-2020 Method: 20201112.b\TBT200730.m

INITIAL CAL: 29-JUL-2020

Compound	%RSD or R ²

NO Q-FLAGS	

ICV CAL: NT820111202.D 12-NOV-2020 10:22

Compound	%D

NO Q-FLAGS	



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIG0417

Instrument: NT8

Calibration: DG00090

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SIG0417-TUN1	N820073001.D	NA	07/30/20 11:31
SIM TBT	SIG0417-CAL4	N820073002.D	NA	07/30/20 12:23
SIM TBT	SIG0417-CAL1	N820073003.D	NA	07/30/20 12:40
SIM TBT	SIG0417-CAL2	N820073004.D	NA	07/30/20 12:57
SIM TBT	SIG0417-CAL3	N820073005.D	NA	07/30/20 13:13
SIM TBT	SIG0417-CAL5	N820073006.D	NA	07/30/20 13:29
SIM TBT	SIG0417-CAL6	N820073007.D	NA	07/30/20 13:46
SIM TBT	SIG0417-SCV1	N820073008.D	NA	07/30/20 15:12
	SIG0417-IBL1	N820073009.D	NA	07/30/20 17:09



ANALYSIS SEQUENCE

SIG0417

Instrument: NT8 Element Column ID: I002370
Calibration ID: DG00090 Tune File: 200728.U
EM Voltage: 1906

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIG0417-TUN1	MS Tune	QC		1	H010226		
SIG0417-CAL1	SIM TBT	QC		2	I006650	I004718	
SIG0417-CAL2	SIM TBT	QC		3	I006651	I004718	
SIG0417-CAL3	SIM TBT	QC		4	I006652	I004718	
SIG0417-CAL4	SIM TBT	QC		5	I006653	I004718	
SIG0417-CAL5	SIM TBT	QC		6	I006654	I004718	
SIG0417-CAL6	SIM TBT	QC		7	I006655	I004718	
SIG0417-SCV1	SIM TBT	QC		8	I006678	I004718	
SIG0417-IBL1		QC		9		I004718	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20200730.b

Time	Filename	LabID	ClientId	DF
1 1131	N820073001.D	SIG0417-TUN1		1 NO ISTDs FOUND
2 1223	N820073002.D	SIG0417-CAL4		1 6.06 54767 8.63 45248
3 1240	N820073003.D	SIG0417-CAL1		1 6.05 53252 8.63 42428
4 1257	N820073004.D	SIG0417-CAL2		1 6.05 49373 8.61 40234
5 1313	N820073005.D	SIG0417-CAL3		1 6.05 52693 8.61 42489
6 1329	N820073006.D	SIG0417-CAL5		1 6.05 52672 8.61 39483
7 1346	N820073007.D	SIG0417-CAL6		1 6.05 58451 8.61 42216
8 1512	N820073008.D	SIG0417-SCV1		1 6.06 61229 8.63 47436
9 1709	N820073009.D	SIG0417-IBL1		1 6.06 60190 8.63 48783

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20200730.b

ARI Job No.: SIG0 Method: TBT200730.m Instrument: nt8.i Date: 30-JUL-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1223	N820073002.D	SIG0417-CAL4		1	NO MANUAL INTEGRATION
1240	N820073003.D	SIG0417-CAL1		1	NO MANUAL INTEGRATION
1257	N820073004.D	SIG0417-CAL2		1	NO MANUAL INTEGRATION
1313	N820073005.D	SIG0417-CAL3		1	NO MANUAL INTEGRATION
1329	N820073006.D	SIG0417-CAL5		1	NO MANUAL INTEGRATION
1346	N820073007.D	SIG0417-CAL6		1	NO MANUAL INTEGRATION
1512	N820073008.D	SIG0417-SCV1		1	NO MANUAL INTEGRATION
1709	N820073009.D	SIG0417-IBL1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 30-Jul-2020 20:48

N820073001.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073002.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073003.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073004.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073005.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073006.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073007.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073008.D	Data Locked	jianqing, 30-Jul-2020 20:48
N820073009.D	Data Locked	jianqing, 30-Jul-2020 20:48



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Sequence:	<u>SII0123</u>	Instrument:	<u>NT14</u>
		Calibration:	<u>DI00041</u>

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BIH0457-BLK2	NT1420090813S.D	Solid	09/08/20 17:29
ZZZZZ	20H0199-17	NT1420090819S.D	Solid	09/08/20 22:20
ZZZZZ	20H0199-18	NT1420090820S.D	Solid	09/08/20 23:08
ZZZZZ	20H0199-19	NT1420090821S.D	Solid	09/08/20 23:56
ZZZZZ	20H0199-20	NT1420090822S.D	Solid	09/09/20 00:44
ZZZZZ	20H0199-21	NT1420090823S.D	Solid	09/09/20 01:32
ZZZZZ	20H0199-22	NT1420090824S.D	Solid	09/09/20 02:20
ZZZZZ	20H0199-23	NT1420090825S.D	Solid	09/09/20 03:08
ZZZZZ	20H0199-24	NT1420090826S.D	Solid	09/09/20 03:56



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: 20J0385

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,	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
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
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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



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Sequence: SIJ0085
Analyst: VJS

Date: 10/7/2020

Extract Dilution Bench Sheet

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
20T0231-1, 2, 3, 4, 5 6, 9, 10	10	DCM	490	50				
20T0231-7	20	DCM	480	25				
20T0231-8, 11	5	DCM	495	100				



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0139

Instrument: NT14

Calibration: DJ00029

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SIK0139-TUN1	NT1420111003.D	NA	11/10/20 13:44
Initial Cal Check	SIK0139-ICV1	NT1420111004.D	NA	11/10/20 13:58
ZZZZZ	BIJ0793-BLK1	NT1420111005.D	Solid	11/10/20 14:53
ZZZZZ	BIJ0793-BS1	NT1420111006.D	Solid	11/10/20 15:42
ZZZZZ	20J0323-01	NT1420111007.D	Solid	11/10/20 16:30
ZZZZZ	20J0323-02	NT1420111008.D	Solid	11/10/20 17:18
ZZZZZ	20J0323-03	NT1420111009.D	Solid	11/10/20 18:05
ZZZZZ	20J0323-04	NT1420111010.D	Solid	11/10/20 18:53
ZZZZZ	20J0323-05	NT1420111011.D	Solid	11/10/20 19:41
ZZZZZ	20J0331-01	NT1420111012.D	Solid	11/10/20 20:29
ZZZZZ	20J0331-02	NT1420111013.D	Solid	11/10/20 21:17
Blank	BIJ0841-BLK1	NT1420111014.D	Water	11/10/20 22:05
LCS	BIJ0841-BS1	NT1420111015.D	Water	11/10/20 22:52
SC-FB-2010261145	20J0385-01	NT1420111016.D	Water	11/10/20 23:40
SC-RB-2010261130	20J0385-02	NT1420111017.D	Water	11/11/20 00:28
ZZZZZ	20J0386-01	NT1420111018.D	Water	11/11/20 01:16
Calibration Check	SIK0139-CCV1	NT1420111019.D	NA	11/11/20 02:03



ANALYSIS SEQUENCE

SIK0139

Instrument: NT14 Element Column ID: i005863
Calibration ID: DJ00029 Tune File: 200104u
EM Voltage: 1847

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIK0139-TUN1	MS Tune	QC		1	I007920		
SIK0139-ICV1	Initial Cal Check	QC		2	I007920	I007919	
SIK0139-ICB1	Initial Cal Blank	QC		3	I007920	I007919	
BIJ0793-BLK1	Blank	QC		4		I007919	
BIJ0793-BS1	LCS	QC		5		I007919	
20J0323-01	NCPDI-026SG-00-09-201019	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	6		I007919	
20J0323-02	NCPDI-1026SG-00-09-201019	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	7		I007919	
20J0323-03	NCPDI-027SG-00-11-201019	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	8		I007919	
20J0323-04	NCPDI-029SG-00-09-201019	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	9		I007919	
20J0323-05	NCPDI-030SG-00-10-201019	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	10		I007919	
20J0331-01	NCPDI-031SG-00-07-201020	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	11		I007919	
20J0331-02	NCPDI-032SG-00-07-201020	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 02	12		I007919	
BIJ0841-BLK1	Blank	QC		13		I007919	
BIJ0841-BS1	LCS	QC		14		I007919	
20J0385-01	SC-FB-2010261145	8270E-SIM Alkyl PAH (Parents) Dual Scan	F 01	15		I007919	
20J0385-02	SC-RB-2010261130	8270E-SIM Alkyl PAH (Parents) Dual Scan	F 01	16		I007919	
20J0386-01	SC-RB-2010261000	8270E-SIM Alkyl PAH (Parents) Dual Scan	A 01	17		I007919	
SIK0139-CCV1	Calibration Check	QC		18	I007920	I007919	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b

ARI Job No.: SIK0 Method: ALKYLPA.m Instrument: nt14.i Date: 10-NOV-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1221	NT1420111002.D	SIK0139-ICV1		1	Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene,
1344	NT1420111003.D	SIK0139-TUN1		1	NO MANUAL INTEGRATION
1358	NT1420111004.D	SIK0139-ICV1		1	Indeno(1,2,3-cd)pyrene, Total Benzofluoranthenes,
1453	NT1420111005.D	BIJ0793-BLK1		1	NO MANUAL INTEGRATION
1542	NT1420111006.D	BIJ0793-BS1		1	Benzo(g,h,i)perylene, Total Benzofluoranthenes,
1630	NT1420111007.D	20J0323-01		1	Pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
1718	NT1420111008.D	20J0323-02		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
1805	NT1420111009.D	20J0323-03		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes, Phenanthrene-d10, Perylene-d12,
1853	NT1420111010.D	20J0323-04		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
1941	NT1420111011.D	20J0323-05		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, 1-methylnaphthalene, Total Benzofluoranthenes,
2029	NT1420111012.D	20J0331-01		1	2-Methylnaphthalene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
2117	NT1420111013.D	20J0331-02		1	Benzo(b)fluoranthene, Benzo(k)fluoranthene, Total Benzofluoranthenes,
2205	NT1420111014.D	BIJ0841-BLK1		1	NO MANUAL INTEGRATION
2252	NT1420111015.D	BIJ0841-BS1		1	Indeno(1,2,3-cd)pyrene, Total Benzofluoranthenes,
2340	NT1420111016.D	20J0385-01		1	NO MANUAL INTEGRATION
0028	NT1420111017.D	20J0385-02		1	NO MANUAL INTEGRATION
0116	NT1420111018.D	20J0386-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0203	NT1420111019.D	SIK0139-CCV1		1	Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b

Time	Filename	LabID	ClientId	DF						
1	1221	NT1420111002.D	SIK0139-ICV1		1	18.62	264137 22.06	238965 32.91	371464	
2	1344	NT1420111003.D	SIK0139-TUN1		1	NO ISTDS FOUND				
3	1358	NT1420111004.D	SIK0139-ICV1		1	18.62	314961 22.06	299129 32.91	453248	
4	1453	NT1420111005.D	BIJ0793-BLK1		1	18.61	285967 22.05	259294 32.91	361146	
5	1542	NT1420111006.D	BIJ0793-BS1		1	18.61	270658 22.05	251491 32.91	348425	
6	1630	NT1420111007.D	20J0323-01		1	18.61	270334 22.05	249501 32.91	351145	
7	1718	NT1420111008.D	20J0323-02		1	18.61	260595 22.05	249634 32.93	373458	
8	1805	NT1420111009.D	20J0323-03		1	18.61	273832 22.05	257595 32.91	357318	
9	1853	NT1420111010.D	20J0323-04		1	18.61	268639 22.05	257137 32.91	375613	
10	1941	NT1420111011.D	20J0323-05		1	18.61	271852 22.05	257717 32.91	368296	
11	2029	NT1420111012.D	20J0331-01		1	18.61	270453 22.05	254073 32.91	359714	
12	2117	NT1420111013.D	20J0331-02		1	18.61	261741 22.06	251840 32.93	366411	
13	2205	NT1420111014.D	BIJ0841-BLK1		1	18.61	258251 22.05	251233 32.91	339610	
14	2252	NT1420111015.D	BIJ0841-BS1		1	18.61	258612 22.05	249125 32.91	342872	
15	2340	NT1420111016.D	20J0385-01		1	18.61	266345 22.05	244953 32.91	341516	
16	0028	NT1420111017.D	20J0385-02		1	18.61	250409 22.05	239605 32.91	330711	
17	0116	NT1420111018.D	20J0386-01		1	18.61	252619 22.05	240131 32.91	329464	
18	0203	NT1420111019.D	SIK0139-CCV1		1	18.61	295972 22.05	279047 32.91	405162	

Security Status Report

Date: 12-Nov-2020 08:08

NT1420111002.D	Data Locked	yev, 12-
NT1420111003.D	Data Locked	yev, 12-
NT1420111004.D	Data Locked	yev, 12-
NT1420111005.D	Data Locked	yev, 12-
NT1420111006.D	Data Locked	yev, 12-
NT1420111007.D	Data Locked	yev, 12-
NT1420111008.D	Data Locked	yev, 12-
NT1420111009.D	Data Locked	yev, 12-
NT1420111010.D	Data Locked	yev, 12-
NT1420111011.D	Data Locked	yev, 12-
NT1420111012.D	Data Locked	yev, 12-
NT1420111013.D	Data Locked	yev, 12-
NT1420111014.D	Data Locked	yev, 12-
NT1420111015.D	Data Locked	yev, 12-
NT1420111016.D	Data Locked	yev, 12-
NT1420111017.D	Data Locked	yev, 12-
NT1420111018.D	Data Locked	yev, 12-
NT1420111019.D	Data Locked	yev, 12-



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0158

Instrument: NT14

Calibration: DI00041

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BIJ0793-BLK2	NT1420111005S.D	Solid	11/10/20 14:53
ZZZZZ	20J0323-01	NT1420111007S.D	Solid	11/10/20 16:30
ZZZZZ	20J0323-02	NT1420111008S.D	Solid	11/10/20 17:18
ZZZZZ	20J0323-03	NT1420111009S.D	Solid	11/10/20 18:05
ZZZZZ	20J0323-04	NT1420111010S.D	Solid	11/10/20 18:53
ZZZZZ	20J0323-05	NT1420111011S.D	Solid	11/10/20 19:41
ZZZZZ	20J0331-01	NT1420111012S.D	Solid	11/10/20 20:29
ZZZZZ	20J0331-02	NT1420111013S.D	Solid	11/10/20 21:17
Blank	BIJ0841-BLK2	NT1420111014S.D	Water	11/10/20 22:05
SC-FB-2010261145	20J0385-01	NT1420111016S.D	Water	11/10/20 23:40
SC-RB-2010261130	20J0385-02	NT1420111017S.D	Water	11/11/20 00:28
ZZZZZ	20J0386-01	NT1420111018S.D	Water	11/11/20 01:16



ANALYSIS SEQUENCE

SIK0158

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

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIK0158-ICV1	Initial Cal Check	QC		1	I008041	I007919	
BIJ0793-BLK2	Blank	QC		2			
20J0323-01	NCPDI-026SG-00-09-201019	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	3			
20J0323-02	NCPDI-1026SG-00-09-201019	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	4			
20J0323-03	NCPDI-027SG-00-11-201019	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	5			
20J0323-04	NCPDI-029SG-00-09-201019	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	6			
20J0323-05	NCPDI-030SG-00-10-201019	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	7			
20J0331-01	NCPDI-031SG-00-07-201020	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	8			
20J0331-02	NCPDI-032SG-00-07-201020	8270E-SIM Alkyl PAH (Range) Dual Scan	A 02	9			
BIJ0841-BLK2	Blank	QC		10			
20J0385-01	SC-FB-2010261145	8270E-SIM Alkyl PAH (Range) Dual Scan	F 01	11			
20J0385-02	SC-RB-2010261130	8270E-SIM Alkyl PAH (Range) Dual Scan	F 01	12			
20J0386-01	SC-RB-2010261000	8270E-SIM Alkyl PAH (Range) Dual Scan	A 01	13			

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b\SIM.b

Time	Filename	LabID	ClientId	DF
1	1344	NT1420111003S.D	SIK0139-TUN1	1 NO ISTDs FOUND
2	1358	NT1420111004S.D	SIK0139-ICV1	1 18.61 304839 22.05 339521 32.92 505121
3	1453	NT1420111005S.D	BIJ0793-BLK2	1 18.61 270386 22.04 293936 32.92 406525
4	1542	NT1420111006S.D	BIJ0793-BS1	1 18.61 262025 22.04 283845 32.90 398505
5	1630	NT1420111007S.D	20J0323-01	1 18.61 257750 22.04 280857 32.90 395963
6	1718	NT1420111008S.D	20J0323-02	1 18.61 255565 22.05 282804 32.92 416576
7	1805	NT1420111009S.D	20J0323-03	1 18.61 263696 22.04 289107 32.92 406446
8	1853	NT1420111010S.D	20J0323-04	1 18.61 261019 22.05 288683 32.92 419759
9	1941	NT1420111011S.D	20J0323-05	1 18.61 265571 22.05 295272 32.92 416397
10	2029	NT1420111012S.D	20J0331-01	1 18.61 262108 22.05 287330 32.92 405860
11	2117	NT1420111013S.D	20J0331-02	1 18.61 257907 22.05 287414 32.92 414871
12	2205	NT1420111014S.D	BIJ0841-BLK2	1 18.60 255341 22.04 279400 32.90 385556
13	2252	NT1420111015S.D	BIJ0841-BS1	1 18.60 251394 22.04 279672 32.90 384039
14	2340	NT1420111016S.D	20J0385-01	1 18.60 256917 22.04 281236 32.90 386123
15	0028	NT1420111017S.D	20J0385-02	1 18.60 247277 22.04 269497 32.90 370548
16	0116	NT1420111018S.D	20J0386-01	1 18.60 244335 22.04 267347 32.90 369049

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20201110.b\SIM.b

ARI Job No.: SIK0 Method: SIM.b\ALKYLRANGE.m Instrument: nt14.i Date: 10-NOV-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1344	NT1420111003S.D	SIK0139-TUN1		1	NO MANUAL INTEGRATION
1358	NT1420111004S.D	SIK0139-ICV1		1	NO MANUAL INTEGRATION
1453	NT1420111005S.D	BIJ0793-BLK2		1	NO MANUAL INTEGRATION
1542	NT1420111006S.D	BIJ0793-BS1		1	NO MANUAL INTEGRATION
1630	NT1420111007S.D	20J0323-01		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C3_Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4
1718	NT1420111008S.D	20J0323-02		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C3_Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4
1805	NT1420111009S.D	20J0323-03		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C3_Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4
1853	NT1420111010S.D	20J0323-04		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4-Dibenzothiophenes,
1941	NT1420111011S.D	20J0323-05		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C3_Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4
2029	NT1420111012S.D	20J0331-01		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4-Dibenzothiophenes,
2117	NT1420111013S.D	20J0331-02		1	C1-Decalin, C2-Decalin, C3-Decalin, C4-Decalin, C1-Naphthalenes, C4-Napthobenzothiophenes, C4-Fluoranthenes/Pyrenes, C2-Naphthalenes, C3-Naphthalenes, C4-Naphthalenes, C1-Benzothiophenes, C2-Benzothiophenes, C3_Benzothiophenes, C1-Fluorenes, C2-Fluorenes, C3-Fluorenes, C1-Dibenzothiophenes, C2-Dibenzothiophenes, C3-Dibenzothiophenes, C4
2205	NT1420111014S.D	BIJ0841-BLK2		1	NO MANUAL INTEGRATION

2252	NT1420111015S.D BIJ0841-BS1	1	NO MANUAL INTEGRATION
2340	NT1420111016S.D 20J0385-01	1	C1-Naphthalenes,
0028	NT1420111017S.D 20J0385-02	1	C1-Naphthalenes,
0116	NT1420111018S.D 20J0386-01	1	C1-Naphthalenes,

Security Status Report

Date: 13-Nov-2020 08:52

NT1420111003S.D	Data Locked	yev, 13-
NT1420111004S.D	Data Locked	yev, 13-
NT1420111005S.D	Data Locked	yev, 13-
NT1420111006S.D	Data Locked	yev, 13-
NT1420111007S.D	Data Locked	yev, 13-
NT1420111008S.D	Data Locked	yev, 13-
NT1420111009S.D	Data Locked	yev, 13-
NT1420111010S.D	Data Locked	yev, 13-
NT1420111011S.D	Data Locked	yev, 13-
NT1420111012S.D	Data Locked	yev, 13-
NT1420111013S.D	Data Locked	yev, 13-
NT1420111014S.D	Data Locked	yev, 13-
NT1420111015S.D	Data Locked	yev, 13-
NT1420111016S.D	Data Locked	yev, 13-
NT1420111017S.D	Data Locked	yev, 13-
NT1420111018S.D	Data Locked	yev, 13-



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0176

Instrument: NT8

Calibration: DG00090

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SIK0176-TUN1	NT820111201.D	NA	11/12/20 10:08
Initial Cal Check	SIK0176-ICV1	NT820111202.D	NA	11/12/20 10:22
Blank	BIJ0840-BLK1	NT820111203.D	Water	11/12/20 11:01
LCS	BIJ0840-BS1	NT820111204.D	Water	11/12/20 11:18
SC-FB-2010261145	20J0385-01	NT820111205.D	Water	11/12/20 11:34
SC-RB-2010261130	20J0385-02	NT820111206.D	Water	11/12/20 11:51
Calibration Check	SIK0176-CCV1	NT820111207.D	NA	11/12/20 12:13



ANALYSIS SEQUENCE

SIK0176

Instrument: NT8 Element Column ID: I002370
Calibration ID: DG00090 Tune File: 200811
EM Voltage: 1929

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIK0176-TUN1	MS Tune	QC		1	I007631		
SIK0176-ICV1	Initial Cal Check	QC		2	I006653	I004718	
BIJ0840-BLK1	Blank	QC		3		I004718	
BIJ0840-BS1	LCS	QC		4		I004718	
20J0385-01	SC-FB-2010261145	8270E-SIM Butyl Tins	E 01	5		I004718	
20J0385-02	SC-RB-2010261130	8270E-SIM Butyl Tins	E 01	6		I004718	
SIK0176-CCV1	Calibration Check	QC		7	I006653	I004718	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20201112.b

Time	Filename	LabID	ClientId	DF
1	1008	NT820111201.D	SIK0176-TUN1	1 NO ISTDs FOUND
2	1022	NT820111202.D	SIK0176-ICV1	1 5.86 48962 8.40 41114
3	1101	NT820111203.D	BIJ0840-BLK1	1 5.86 56299 8.40 43114
4	1118	NT820111204.D	BIJ0840-BS1	1 5.86 59943 8.40 44757
5	1134	NT820111205.D	20J0385-01	1 5.86 59879 8.40 44717
6	1151	NT820111206.D	20J0385-02	1 5.86 61040 8.40 43109
7	1213	NT820111207.D	SIK0176-CCV1	1 5.86 50903 8.40 41224

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt8.i\20201112.b

ARI Job No.: SIK0 Method: TBT200730.m Instrument: nt8.i Date: 12-NOV-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1022	NT820111202.D	SIK0176-ICV1		1	NO MANUAL INTEGRATION
1101	NT820111203.D	BIJ0840-BLK1		1	NO MANUAL INTEGRATION
1118	NT820111204.D	BIJ0840-BS1		1	NO MANUAL INTEGRATION
1134	NT820111205.D	20J0385-01		1	NO MANUAL INTEGRATION
1151	NT820111206.D	20J0385-02		1	NO MANUAL INTEGRATION
1213	NT820111207.D	SIK0176-CCV1		1	NO MANUAL INTEGRATION

Security Status Report

Date: 12-Nov-2020 15:28

NT820111201.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111202.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111203.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111204.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111205.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111206.D	Data Locked	jianqing, 12-Nov-2020 15:28
NT820111207.D	Data Locked	jianqing, 12-Nov-2020 15:28



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc. SDG/WO: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Sequence: SIG0417 Instrument: NT8
Calibration: DG00090 Calibration Date: 07/30/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIG0417-SCV1 (Water)			Lab File ID: N820073008.D			Analyzed: 07/30/20 15:12		
Tripentyltin	1.5918	107	80 - 120	6.4	6.4	0.0000	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: <u>Analytical Resources, Inc.</u>	SDG/WO: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Sequence: <u>SIJ0085</u>	Instrument: <u>NT14</u>
Calibration: <u>DJ00029</u>	Calibration Date: <u>10/07/2020</u>

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.
Client: Anchor QEA, LLC
Sequence: SIK0139
Calibration: DJ00029

SDG/WO: 20J0385
Project: GascoSiltronic
Instrument: NT14
Calibration Date: 10/07/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIK0139-ICV1 (Solid)		Lab File ID: NT1420111004.D			Analyzed: 11/10/20 13:58			
Naphthalene-d8	2.5000	113	80 - 120	11.63	11.64283	-0.0128	N/A	
Acenaphthene-d10	2.5000	102	80 - 120	17.092	17.10483	-0.0128	N/A	
Phenanthrene-d10	2.5000	120	80 - 120	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	2.5000	97.2	80 - 120	29.952	29.9685	-0.0165	N/A	
Perylene-d12	2.5000	99.4	80 - 120	33.252	33.26483	-0.0128	N/A	
BIJ0841-BLK1 (Water)		Lab File ID: NT1420111014.D			Analyzed: 11/10/20 22:05			
Naphthalene-d8	3.0000	68.3	30 - 160	11.619	11.64283	-0.0238	N/A	
Acenaphthene-d10	3.0000	67.6	30 - 160	17.081	17.10483	-0.0238	N/A	
Phenanthrene-d10	3.0000	88.2	30 - 160	21.93	21.96483	-0.0348	N/A	
Chrysene-d12	3.0000	91.4	30 - 160	29.952	29.9685	-0.0165	N/A	
Perylene-d12	3.0000	73.8	30 - 160	33.252	33.26483	-0.0128	N/A	
BIJ0841-BS1 (Water)		Lab File ID: NT1420111015.D			Analyzed: 11/10/20 22:52			
Naphthalene-d8	3.0000	72.1	30 - 160	11.608	11.64283	-0.0348	N/A	
Acenaphthene-d10	3.0000	71.4	30 - 160	17.07	17.10483	-0.0348	N/A	
Phenanthrene-d10	3.0000	93.7	30 - 160	21.93	21.96483	-0.0348	N/A	
Chrysene-d12	3.0000	93.5	30 - 160	29.952	29.9685	-0.0165	N/A	
Perylene-d12	3.0000	84.2	30 - 160	33.252	33.26483	-0.0128	N/A	
20J0385-01 (Water)		Lab File ID: NT1420111016.D			Analyzed: 11/10/20 23:40			
Naphthalene-d8	3.0000	59.5	30 - 160	11.619	11.64283	-0.0238	N/A	
Acenaphthene-d10	3.0000	60.1	30 - 160	17.081	17.10483	-0.0238	N/A	
Phenanthrene-d10	3.0000	85.1	30 - 160	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	3.0000	89.2	30 - 160	29.952	29.9685	-0.0165	N/A	
Perylene-d12	3.0000	75.1	30 - 160	33.252	33.26483	-0.0128	N/A	
20J0385-02 (Water)		Lab File ID: NT1420111017.D			Analyzed: 11/11/20 00:28			
Naphthalene-d8	3.0000	70.9	30 - 160	11.619	11.64283	-0.0238	N/A	
Acenaphthene-d10	3.0000	70.0	30 - 160	17.081	17.10483	-0.0238	N/A	
Phenanthrene-d10	3.0000	90.9	30 - 160	21.93	21.96483	-0.0348	N/A	
Chrysene-d12	3.0000	91.3	30 - 160	29.952	29.9685	-0.0165	N/A	
Perylene-d12	3.0000	77.8	30 - 160	33.252	33.26483	-0.0128	N/A	



SURROGATE RECOVERY AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0139

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
SIK0139-CCV1 (Solid)		Lab File ID: NT1420111019.D			Analyzed: 11/11/20 02:03			
Naphthalene-d8	2.5000	111	50 - 150	11.619	11.64283	-0.0238	N/A	
Acenaphthene-d10	2.5000	103	50 - 150	17.081	17.10483	-0.0238	N/A	
Phenanthrene-d10	2.5000	102	50 - 150	21.941	21.96483	-0.0238	N/A	
Chrysene-d12	2.5000	103	50 - 150	29.952	29.9685	-0.0165	N/A	
Perylene-d12	2.5000	99.7	50 - 150	33.252	33.26483	-0.0128	N/A	



SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Sequence: SIK0176
Calibration: DG00090

SDG/WO: 20J0385
Project: GascoSiltronic
Instrument: NT8
Calibration Date: 07/30/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIK0176-ICV1 (Water)			Lab File ID: NT820111202.D			Analyzed: 11/12/20 10:22		
Tripentyltin	1.5918	86.1	80 - 120	6.194	6.4	-0.2060	N/A	
Tripropyltin	0.74430	105	80 - 120	4.263	4.462833	-0.1998	N/A	
BIJ0840-BLK1 (Water)			Lab File ID: NT820111203.D			Analyzed: 11/12/20 11:01		
Tripentyltin	2.2589	71.5	30 - 160	6.206	6.4	-0.1940	N/A	
Tripropyltin	2.1873	67.0	30 - 160	4.294	4.462833	-0.1688	N/A	
BIJ0840-BS1 (Water)			Lab File ID: NT820111204.D			Analyzed: 11/12/20 11:18		
Tripentyltin	2.2589	75.2	30 - 160	6.194	6.4	-0.2060	N/A	
Tripropyltin	2.1873	65.7	30 - 160	4.294	4.462833	-0.1688	N/A	
20J0385-01 (Water)			Lab File ID: NT820111205.D			Analyzed: 11/12/20 11:34		
Tripentyltin	2.2589	71.7	30 - 160	6.194	6.4	-0.2060	N/A	
Tripropyltin	2.1873	61.4	30 - 160	4.294	4.462833	-0.1688	N/A	
20J0385-02 (Water)			Lab File ID: NT820111206.D			Analyzed: 11/12/20 11:51		
Tripentyltin	2.2589	69.3	30 - 160	6.194	6.4	-0.2060	N/A	
Tripropyltin	2.1873	59.9	30 - 160	4.284	4.462833	-0.1788	N/A	
SIK0176-CCV1 (Water)			Lab File ID: NT820111207.D			Analyzed: 11/12/20 12:13		
Tripentyltin	1.5918	91.3	50 - 150	6.206	6.4	-0.1940	N/A	
Tripropyltin	0.74430	105	50 - 150	4.263	4.462833	-0.1998	N/A	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIG0417

Instrument: NT8

Calibration: DG00090

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SIG0417-SCV1)		(Water)	Lab File ID: N820073008.D			Analyzed: 07/30/20 15:12			
Tetrapentyltin	61229	6.062	54767	6.061	112	50 - 200	0.001	+/-0.50	
p-Terphenyl-d14	47436	8.626	45248	8.626	105	50 - 200	0.000	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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.
Client: Anchor OEA, LLC
Sequence: SIK0139

SDG: 20J0385
Project: GascoSiltronic
Instrument: NT14
Calibration: DJ00029

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIK0139-ICV1)		(Solid)	Lab File ID: NT1420111004.D			Analyzed: 11/10/20 13:58			
Fluorene-d10	314961	18.621	314961	18.621	100	50 - 200	0.000	+/-0.50	
Anthracene-d10	299129	22.062	299129	22.062	100	50 - 200	0.000	+/-0.50	
Benzo(e)pyrene-d12	453248	32.914	453248	32.914	100	50 - 200	0.000	+/-0.50	
Blank (BIJ0841-BLK1)		(Water)	Lab File ID: NT1420111014.D			Analyzed: 11/10/20 22:05			
Fluorene-d10	258251	18.61	314961	18.621	82	50 - 200	-0.011	+/-0.50	
Anthracene-d10	251233	22.051	299129	22.062	84	50 - 200	-0.011	+/-0.50	
Benzo(e)pyrene-d12	339610	32.914	453248	32.914	75	50 - 200	0.000	+/-0.50	
LCS (BIJ0841-BS1)		(Water)	Lab File ID: NT1420111015.D			Analyzed: 11/10/20 22:52			
Fluorene-d10	258612	18.61	314961	18.621	82	50 - 200	-0.011	+/-0.50	
Anthracene-d10	249125	22.051	299129	22.062	83	50 - 200	-0.011	+/-0.50	
Benzo(e)pyrene-d12	342872	32.914	453248	32.914	76	50 - 200	0.000	+/-0.50	
SC-FB-2010261145 (20J0385-01)		(Water)	Lab File ID: NT1420111016.D			Analyzed: 11/10/20 23:40			
Fluorene-d10	266345	18.61	314961	18.621	85	50 - 200	-0.011	+/-0.50	
Anthracene-d10	244953	22.051	299129	22.062	82	50 - 200	-0.011	+/-0.50	
Benzo(e)pyrene-d12	341516	32.914	453248	32.914	75	50 - 200	0.000	+/-0.50	
SC-RB-2010261130 (20J0385-02)		(Water)	Lab File ID: NT1420111017.D			Analyzed: 11/11/20 00:28			
Fluorene-d10	250409	18.61	314961	18.621	80	50 - 200	-0.011	+/-0.50	
Anthracene-d10	239605	22.051	299129	22.062	80	50 - 200	-0.011	+/-0.50	
Benzo(e)pyrene-d12	330711	32.914	453248	32.914	73	50 - 200	0.000	+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Sequence: SIK0158

Instrument: NT14

Calibration: DI00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BIJ0841-BLK2)		(Water)	Lab File ID: NT1420111014S.D			Analyzed: 11/10/20 22:05			
Fluorene-d10	255341	18.6	304839	18.611	84	50 - 200		+/-0.50	
Anthracene-d10	279400	22.041	339521	22.052	82	50 - 200		+/-0.50	
Benzo(e)pyrene-d12	385556	32.904	505121	32.916	76	50 - 200		+/-0.50	
SC-FB-2010261145 (20J0385-01)		(Water)	Lab File ID: NT1420111016S.D			Analyzed: 11/10/20 23:40			
Fluorene-d10	256917	18.6	304839	18.611	84	50 - 200		+/-0.50	
Anthracene-d10	281236	22.041	339521	22.052	83	50 - 200		+/-0.50	
Benzo(e)pyrene-d12	386123	32.904	505121	32.916	76	50 - 200		+/-0.50	
SC-RB-2010261130 (20J0385-02)		(Water)	Lab File ID: NT1420111017S.D			Analyzed: 11/11/20 00:28			
Fluorene-d10	247277	18.6	304839	18.611	81	50 - 200		+/-0.50	
Anthracene-d10	269497	22.041	339521	22.052	79	50 - 200		+/-0.50	
Benzo(e)pyrene-d12	370548	32.904	505121	32.916	73	50 - 200		+/-0.50	



INTERNAL STANDARD AREA AND RT SUMMARY
EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Sequence: SIK0176

SDG: 20J0385
Project: GascoSiltronic
Instrument: NT8
Calibration: DG00090

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SIK0176-ICV1)		(Water)	Lab File ID: NT820111202.D			Analyzed: 11/12/20 10:22			
Tetrapentyltin	48962	5.856	48962	5.856	100	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	41114	8.396	41114	8.396	100	50 - 200	0.000	+/-0.50	
Blank (BIJ0840-BLK1)		(Water)	Lab File ID: NT820111203.D			Analyzed: 11/12/20 11:01			
Tetrapentyltin	56299	5.856	48962	5.856	115	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	43114	8.396	41114	8.396	105	50 - 200	0.000	+/-0.50	
LCS (BIJ0840-BS1)		(Water)	Lab File ID: NT820111204.D			Analyzed: 11/12/20 11:18			
Tetrapentyltin	59943	5.856	48962	5.856	122	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	44757	8.396	41114	8.396	109	50 - 200	0.000	+/-0.50	
SC-FB-2010261145 (20J0385-01)		(Water)	Lab File ID: NT820111205.D			Analyzed: 11/12/20 11:34			
Tetrapentyltin	59879	5.856	48962	5.856	122	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	44717	8.396	41114	8.396	109	50 - 200	0.000	+/-0.50	
SC-RB-2010261130 (20J0385-02)		(Water)	Lab File ID: NT820111206.D			Analyzed: 11/12/20 11:51			
Tetrapentyltin	61040	5.856	48962	5.856	125	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	43109	8.396	41114	8.396	105	50 - 200	0.000	+/-0.50	
Calibration Check (SIK0176-CCV1)		(Water)	Lab File ID: NT820111207.D			Analyzed: 11/12/20 12:13			
Tetrapentyltin	50903	5.856	48962	5.856	104	50 - 200	0.000	+/-0.50	
p-Terphenyl-d14	41224	8.396	41114	8.396	100	50 - 200	0.000	+/-0.50	



HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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
SC-FB-2010261145 20J0385-01	10/26/20 11:45	10/28/20 11:35	10/29/20 10:56	2	7	11/10/20 23:40	13	40	
SC-FB-2010261145 20J0385-01	10/26/20 11:45	10/28/20 11:35	10/29/20 10:56	2	7	11/10/20 23:40	13	40	
SC-FB-2010261145 20J0385-01	10/26/20 11:45	10/28/20 11:35	11/02/20 14:15	7	7	11/12/20 11:34	10	40	
SC-RB-2010261130 20J0385-02	10/26/20 11:30	10/28/20 11:35	10/29/20 10:56	2	7	11/11/20 00:28	13	40	
SC-RB-2010261130 20J0385-02	10/26/20 11:30	10/28/20 11:35	10/29/20 10:56	2	7	11/11/20 00:28	13	40	
SC-RB-2010261130 20J0385-02	10/26/20 11:30	10/28/20 11:35	11/02/20 14:15	7	7	11/12/20 11:51	10	40	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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
Benzo(a)fluoranthenes, 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



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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
C1-Decalins		0.020	ug/L
C2-Decalins		0.020	ug/L
C3-Decalins		0.020	ug/L



METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Instrument: NT14

Analyte	MDL	RL	Units
C4-Decalins		0.020	ug/L
C1-Naphthalenes		0.020	ug/L
C2-Naphthalenes		0.020	ug/L
C3-Naphthalenes		0.020	ug/L
C4-Naphthalenes		0.020	ug/L
C1-Fluorenes		0.020	ug/L
C4-Phenanthrenes/Anthracenes		0.020	ug/L
C1-Fluoranthenes/Pyrenes		0.020	ug/L
C2-Fluorenes		0.020	ug/L
C3-Fluorenes		0.020	ug/L
C1-Dibenzothiophenes		0.020	ug/L
C2-Dibenzothiophenes		0.020	ug/L
C3-Dibenzothiophenes		0.020	ug/L
C4-Dibenzothiophenes		0.020	ug/L
C1-Phenanthrenes/Anthracenes		0.020	ug/L
C2-Phenanthrenes/Anthracenes		0.020	ug/L
C3-Phenanthrenes/Anthracenes		0.020	ug/L
C2-Fluoranthenes/Pyrenes		0.020	ug/L
C3-Fluoranthenes/Pyrenes		0.020	ug/L
C4-Fluoranthenes/Pyrenes		0.020	ug/L
C1-Benzo(a)anthracenes/Chrysenes		0.020	ug/L
C2-Benzo(a)anthracenes/Chrysenes		0.020	ug/L
C3-Benzo(a)anthracenes/Chrysenes		0.020	ug/L
C4-Benzo(a)anthracenes/Chrysenes		0.020	ug/L
C1-Benzothiophenes		0.020	ug/L
C2-Benzothiophenes		0.020	ug/L
C3-Benzothiophenes		0.020	ug/L
C1-Naphthobenzothiophenes		0.020	ug/L
C2-Naphthobenzothiophenes		0.020	ug/L
C3-Naphthobenzothiophenes		0.020	ug/L
C4-Naphthobenzothiophenes		0.020	ug/L
C1-Dibenzo(a)anthracenes		0.020	ug/L
C2-Dibenzo(a)anthracenes		0.020	ug/L
C3-Dibenzo(a)anthracenes		0.020	ug/L



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Instrument: NT8

Analyte	MDL	RL	Units
Tributyltin Ion	0.043	0.193	ug/L



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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-01 C

SDG: 20J0385

Sampled: 10/26/20 11:45

Prepared: 11/02/20 17:11

File ID: 420K1012.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 11/10/20 11:28

Batch: BIJ0839

Sequence: SIK0149

Initial/Final: 500 mL / 1 mL

Instrument: FID4

Column: RTX-1

Calibration: DA00022

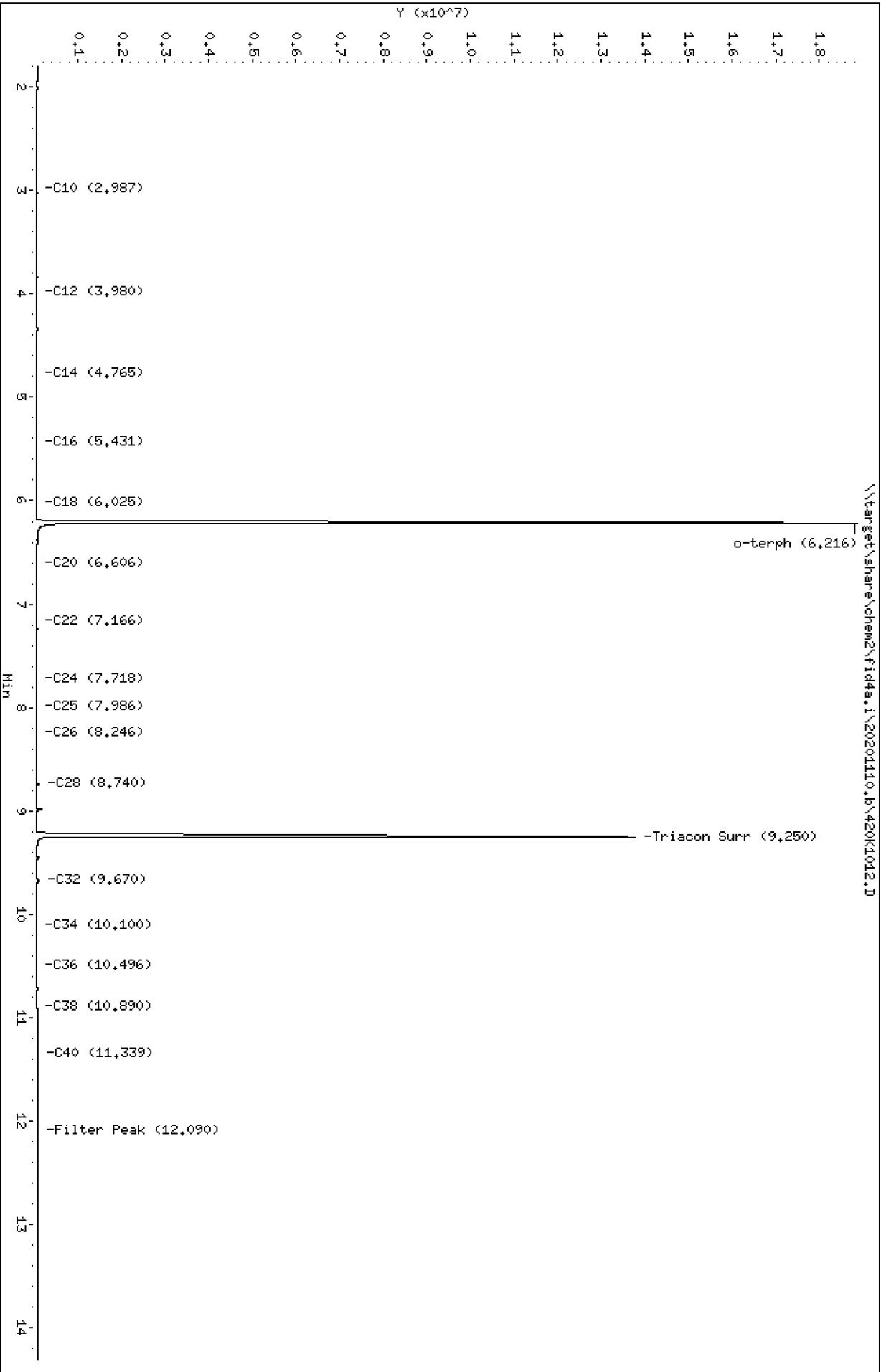
CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	0.100	U	0.033	0.100
RRO	Motor Oil Range Organics (C24-C38)	1	0.200	U	0.056	0.200

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.22500	0.193	85.9	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1012.D
Date: 10-NOV-2020 11:28
Client ID:
Sample Info: 20J0385-01

Column phase: RTX-1

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



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1012.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: 20J0385-01
Client ID:
Injection: 10-NOV-2020 11:28
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

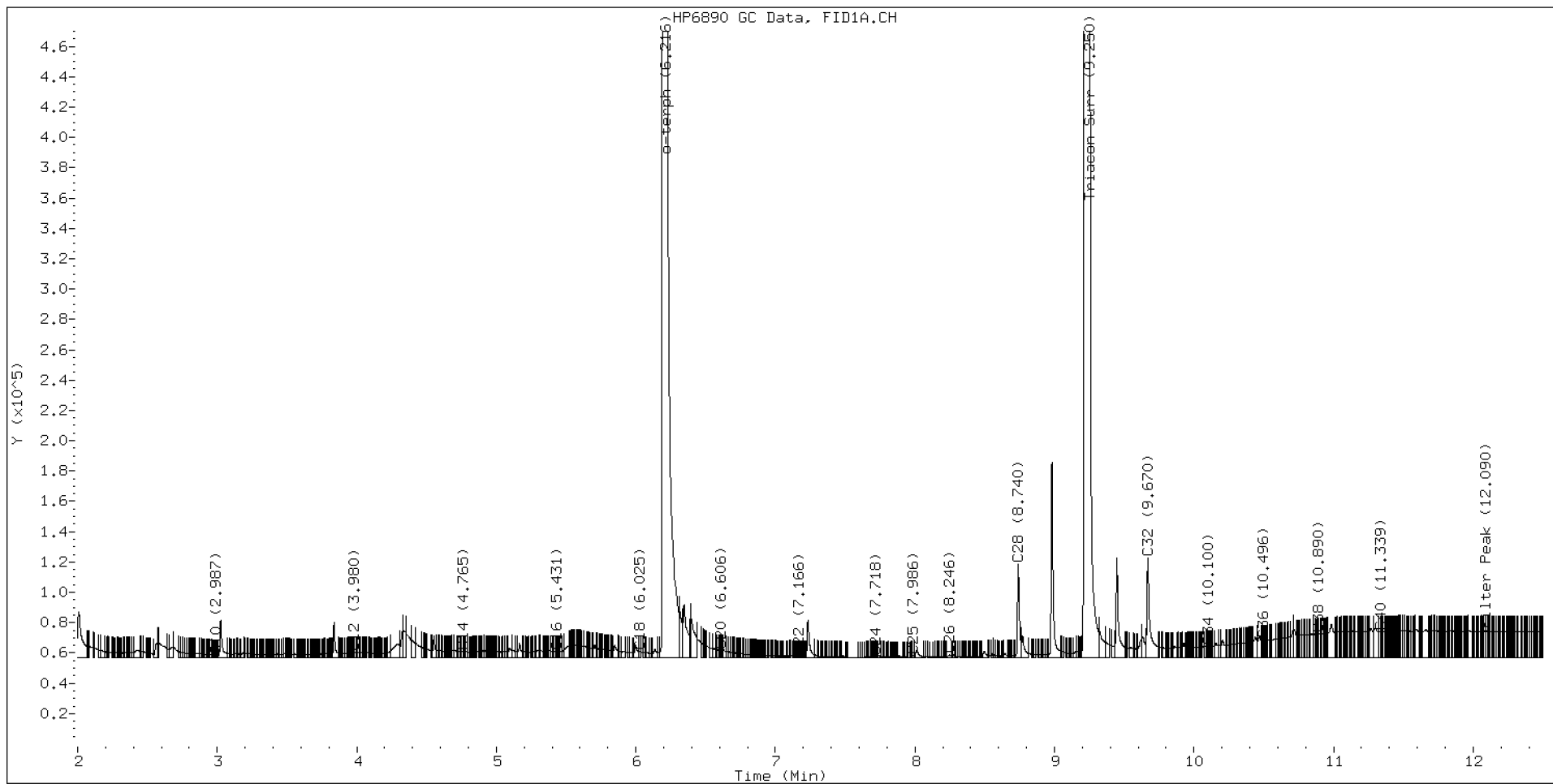
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.887	0.013	35515	43482	WATPHD	(C12-C24)	884924	5.6
C10	2.987	0.002	1710	504	WATPHM	(C24-C38)	1295314	12.8
C12	3.980	-0.002	3578	1930	AK102	(C10-C25)	1065326	5.4
C14	4.765	-0.002	4000	2367	AK103	(C25-C36)	976986	13.3
C16	5.431	-0.002	4269	1057	OR.DIES	(C10-C28)	1192223	6.1
C18	6.025	-0.007	4203	3071				
C20	6.606	0.002	4889	2664	JET-A	(C10-C18)	724179	4.4
C22	7.166	-0.001	1021	764				
C24	7.718	0.002	1007	464				
C25	7.986	0.002	1171	984				
C26	8.246	0.000	1771	2608				
C28	8.740	-0.010	61993	59841				
C32	9.670	-0.009	65954	102434				
C34	10.100	-0.002	7585	2269				
Filter Peak	12.090	0.007	17662	17442	BUNKERC	(C10-C38)	2356811	59.7
C36	10.496	-0.006	11362	4522				
C38	10.890	-0.002	15550	8511				
C40	11.339	0.001	17185	11123				
o-terph	6.216	-0.002	18813944	19764037				
Triacon Surr	9.250	-0.004	13740320	18207447	NAS DIES	(C10-C24)	1061497	5.4

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	19764037	96.6
Triacontane	18207447	122.7

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
Bunker C	39477.2	13-MAR-2020





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

Laboratory: Analytical Resources, Inc.

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Laboratory ID: 20J0385-02 C

SDG: 20J0385

Sampled: 10/26/20 11:30

Prepared: 11/02/20 17:11

File ID: 420K1015.D

% Solids:

Preparation: EPA 3510C SepF

Analyzed: 11/10/20 12:29

Batch: BIJ0839

Sequence: SIK0149

Initial/Final: 500 mL / 1 mL

Instrument: FID4

Column: RTX-1

Calibration: DA00022

CAS NO.	COMPOUND	DILUTION	(mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	0.100	U	0.033	0.100
RRO	Motor Oil Range Organics (C24-C38)	1	0.200	U	0.056	0.200

SURROGATES	ADDED:(mg/L)	(mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.22500	0.192	85.3	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1015.D

Date: 10-NOV-2020 12:29

Client ID:

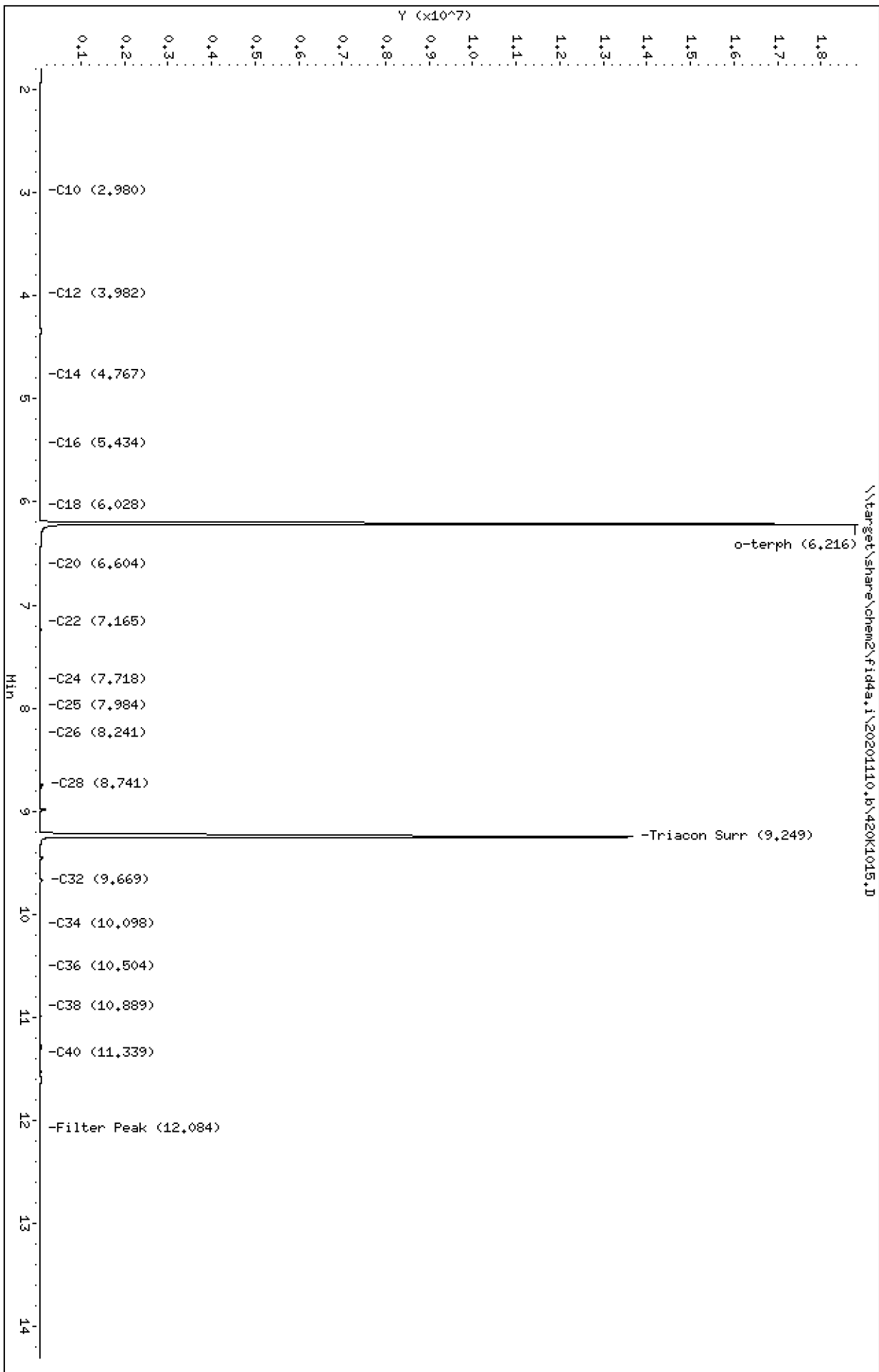
Sample Info: 20J0385-02

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Column phase: RTX-1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1015.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: 20J0385-02
Client ID:
Injection: 10-NOV-2020 12:29
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

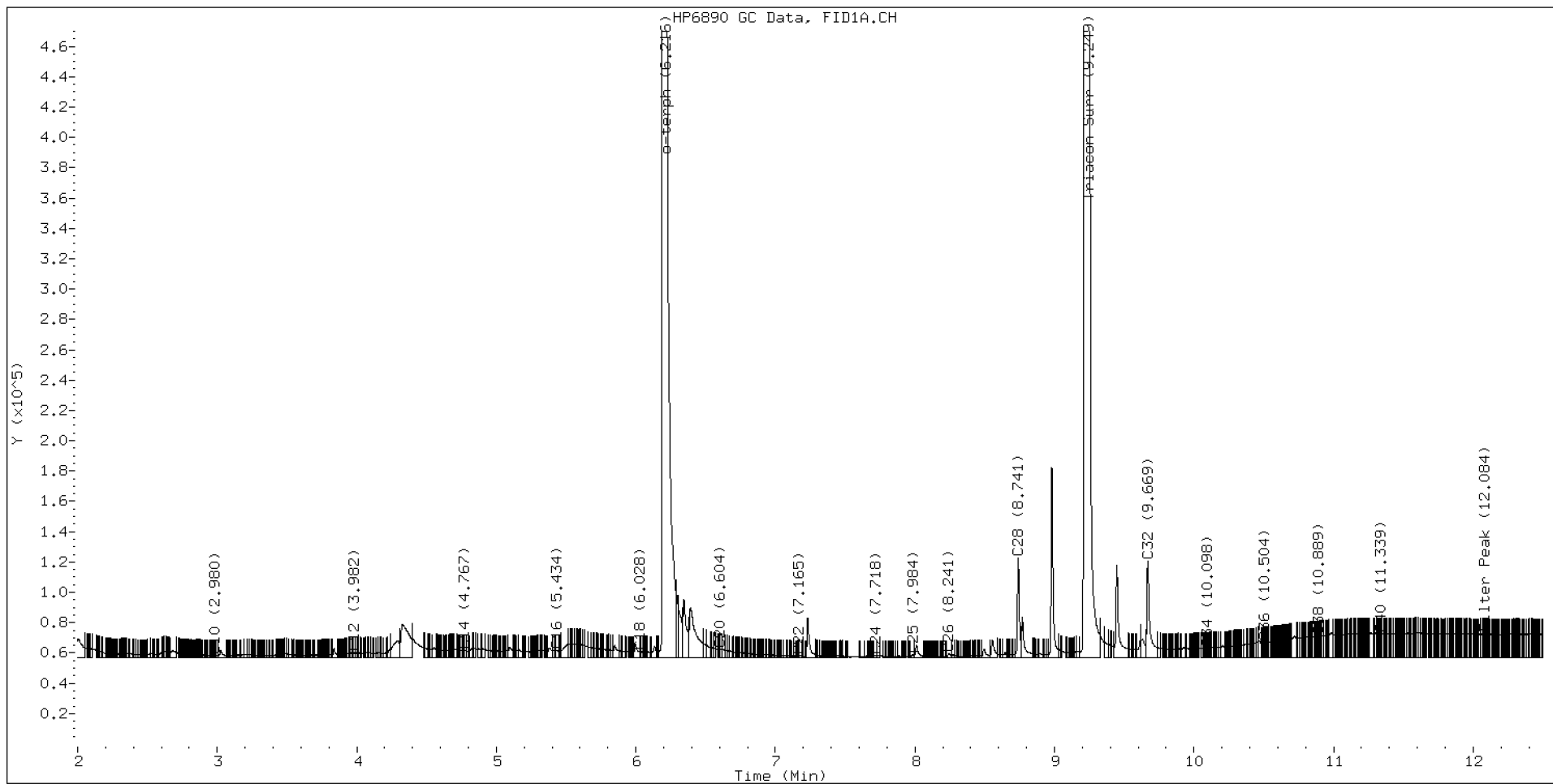
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.887	0.013	27956	116607	WATPHD	(C12-C24)	1014350	6.4
C10	2.980	-0.005	870	292	WATPHM	(C24-C38)	1197958	11.8
C12	3.982	0.000	2990	2152	AK102	(C10-C25)	1118576	5.7
C14	4.767	0.001	4402	2604	AK103	(C25-C36)	908595	12.4
C16	5.434	0.001	4347	4798	OR.DIES	(C10-C28)	1284706	6.6
C18	6.028	-0.005	3996	2842				
C20	6.604	0.000	5076	759	JET-A	(C10-C18)	685737	4.1
C22	7.165	-0.002	1191	667				
C24	7.718	0.002	1284	1377				
C25	7.984	-0.001	1569	1897				
C26	8.241	-0.005	2311	3067				
C28	8.741	-0.009	65613	62634				
C32	9.669	-0.010	63268	95950				
C34	10.098	-0.004	6133	1829				
Filter Peak	12.084	0.000	15221	6816	BUNKERC	(C10-C38)	2313081	58.6
C36	10.504	0.002	9717	2890				
C38	10.889	-0.002	13792	4126				
C40	11.339	0.002	15634	6992				
o-terph	6.216	-0.002	18784569	19656398				
Triacon Surr	9.249	-0.005	13616884	18311698	NAS DIES	(C10-C24)	1115122	5.7

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	19656398	96.0
Triacontane	18311698	123.4

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
Bunker C	39477.2	13-MAR-2020





PREPARATION BATCH SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0839 Batch Matrix: Water

Preparation: EPA 3510C SepF

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SC-FB-2010261145	20J0385-01	420K1012.D	11/02/20 17:11	
SC-RB-2010261130	20J0385-02	420K1015.D	11/02/20 17:11	
Blank	BIJ0839-BLK1	420K1010.D	11/02/20 17:11	
LCS	BIJ0839-BS1	420K1011.D	11/02/20 17:11	
SC-FB-2010261145	BIJ0839-MS1	420K1013.D	11/02/20 17:11	
SC-FB-2010261145	BIJ0839-MSD1	420K1014.D	11/02/20 17:11	



Batch: BIJ0839

Prepared using: EPA 3510C SepF
TPH NW (Extractables) low level in Water

Matrix: Water

Date Prepared: 11/2/2020

Balance ID: W/A

Set Up By: RCSM 10/29/2020

The following standards may be missing from this batch!

Designator	Description
QLS 18	QLS Spike

Analysis: TPH NW (Extractables) low level

Lab Number & Container	Initial (mL) Actual	Acid Clean (1:1) (1mL) Y/N	Silica Clean (1:1) (1mL) Y/N	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
20J0385-01 <u>BC</u>	(500.000) <u>500.000</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	
20J0385-02 <u>BC</u>	(500.000) <u>↓</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	

Batch QC

Lab Number	Initial (mL) Actual	Acid Clean (1:1) (1mL) Y/N	Silica Clean (1:1) (1mL) Y/N	Final Effective Vol (mL)	Vol to Lab	Extraction Comments
BIJ0839-BLK1	(500.000) <u>500.000</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	
BIJ0839-BS1	(500.000) <u>↓</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	
BIJ0839-MS1	(500.000) <u>↓</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	Use 20J0385-01 <u>D</u>
BIJ0839-MSD1	(500.000) <u>↓</u>	(1:1) Y/N	(1:1) Y/N	1	1.0	Use 20J0385-01 <u>G</u>

TWC 11/2/2020 BH 11/9/20 11/2/2020 17:11
Client ID verified By Date Preparation Reviewed By Date Extraction Date and Time



Prep Steps	Reagents Used	Standard ID	Surrogates & Spike Standards Used				
	Station/Reagent		Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
KD 80-85°C ① ② ③ ④ ⑤ ⑥ SH 11/17/20 Analyst/Date	Separatory Funnel Analyst: SH/TWC Date: 11/2/20		Surrogate	P 1009824 Exp: 04/19/2021	100µL	SH	TWC
	1:1 Sulfuric Acid/DI H2O or 11/17/20	1009392 1004323		1125µg/mL			
TurboVap 1 2 3 ④ 5 BH 11/9/20 Analyst/Date	Methylene Chloride	1010090	Spike	11 1009822 Exp: 04/20/2021	100µL	SH	TWC
	Anhydrous Sodium Sulfate	1008491	15000µg/mL				
Vialing BH 11/9/20 Analyst/Date	KD		(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 Analyst: SH Date: 11/17/20	1010361	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).				
	Vialing Analyst: BH Date: 11/9/20	1010361					
	Methylene Chloride	1010361					
	Concentrated Sulfuric Acid						
	20% Silver Gel						



Batch: BIJ0839

Prepared using: EPA 3510C SepF
TPH NW (Extractables) low level in Water

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Add Surr/Spk.2. Acidify with 1 pipet of 1:1 Sulfuric Acid.3. Check pH.4. Extract 2X with 30mL DCM.5. KD at 80°.6. TurboVap.7. Acid/Silica Clean-ups? Y <input type="checkbox"/> N <input checked="" type="checkbox"/>8. Vial in DCM. <p>Archive: Y <input type="checkbox"/> N <input checked="" type="checkbox"/></p>	

Check if all other analysis have been completed; if so, then archive.



Extraction Parameter: TPHD Extraction Batch B15Q839

Total Solids Batch: N/A Work Order(s): 2QJQ385

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input 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 checked="" type="checkbox"/> No Anomalies	SH 11/2/20
<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 type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



Form I
METHOD BLANK DATA SHEET
NWTPH-Dx

Blank

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BIJ0839-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>11/02/20 17:11</u>
Solids:		Preparation:	<u>EPA 3510C SepF</u>
Batch:	<u>BIJ0839</u>	Sequence:	<u>SIK0149</u>
Instrument:	<u>FID4</u>	Column:	<u>RTX-1</u>
		File ID:	<u>420K1010.D</u>
		Analyzed:	<u>11/10/20 10:47</u>
		Initial/Final:	<u>500 mL / 1 mL</u>
		Calibration:	<u>DA00022</u>

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	Q	DL	RL
DRO	Diesel Range Organics (C12-C24)	1	0.100	U	0.033	0.100
RRO	Motor Oil Range Organics (C24-C38)	1	0.200	U	0.056	0.200
SURROGATES		ADDED (mg/L)	CONC. (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl		0.22500	0.188	83.7	50 - 150	

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1010.D

Date: 10-NOV-2020 10:47

Client ID:

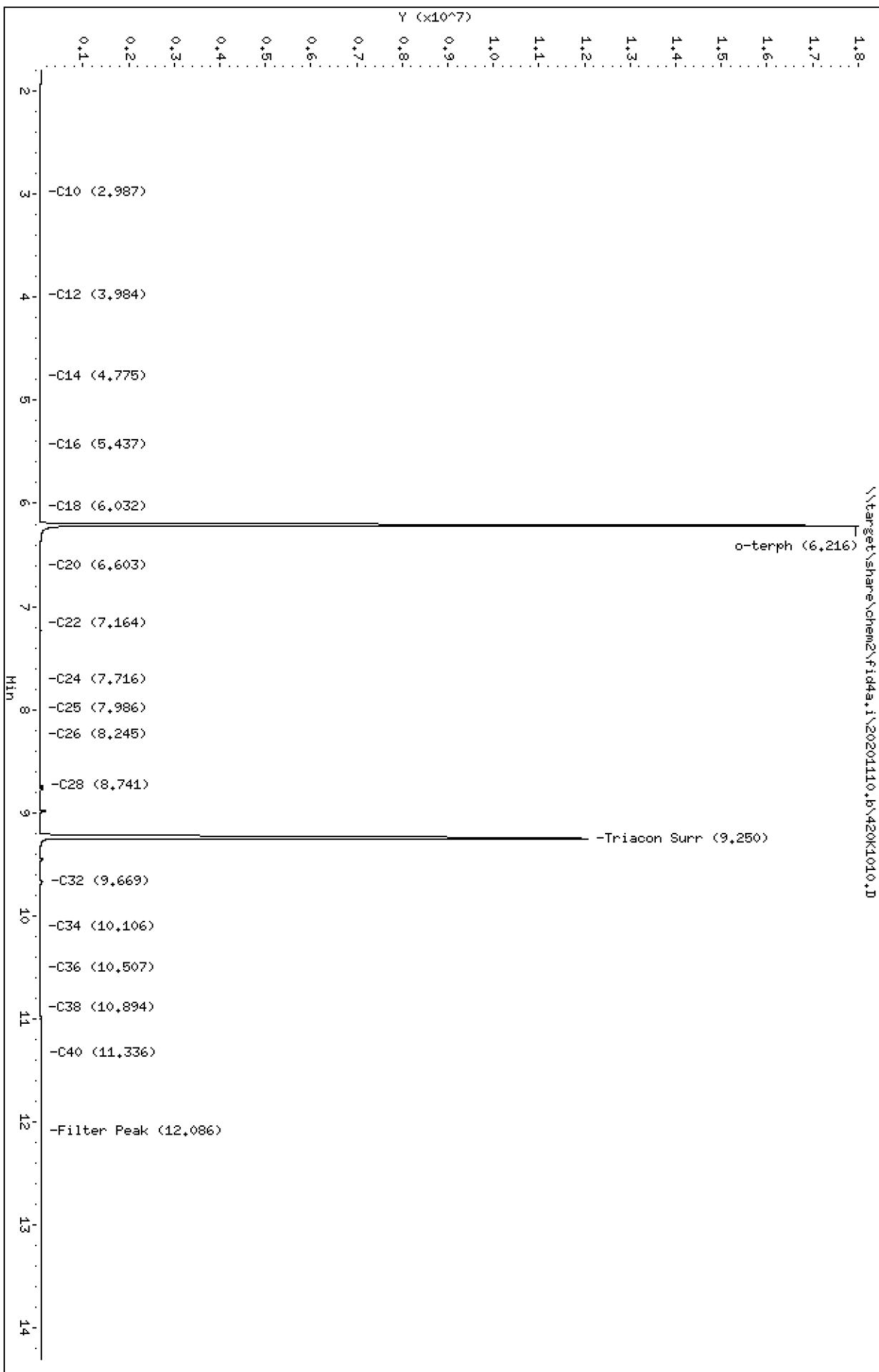
Sample Info: B100839-BLK1

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1010.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0839-BLK1
Client ID:
Injection: 10-NOV-2020 10:47
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

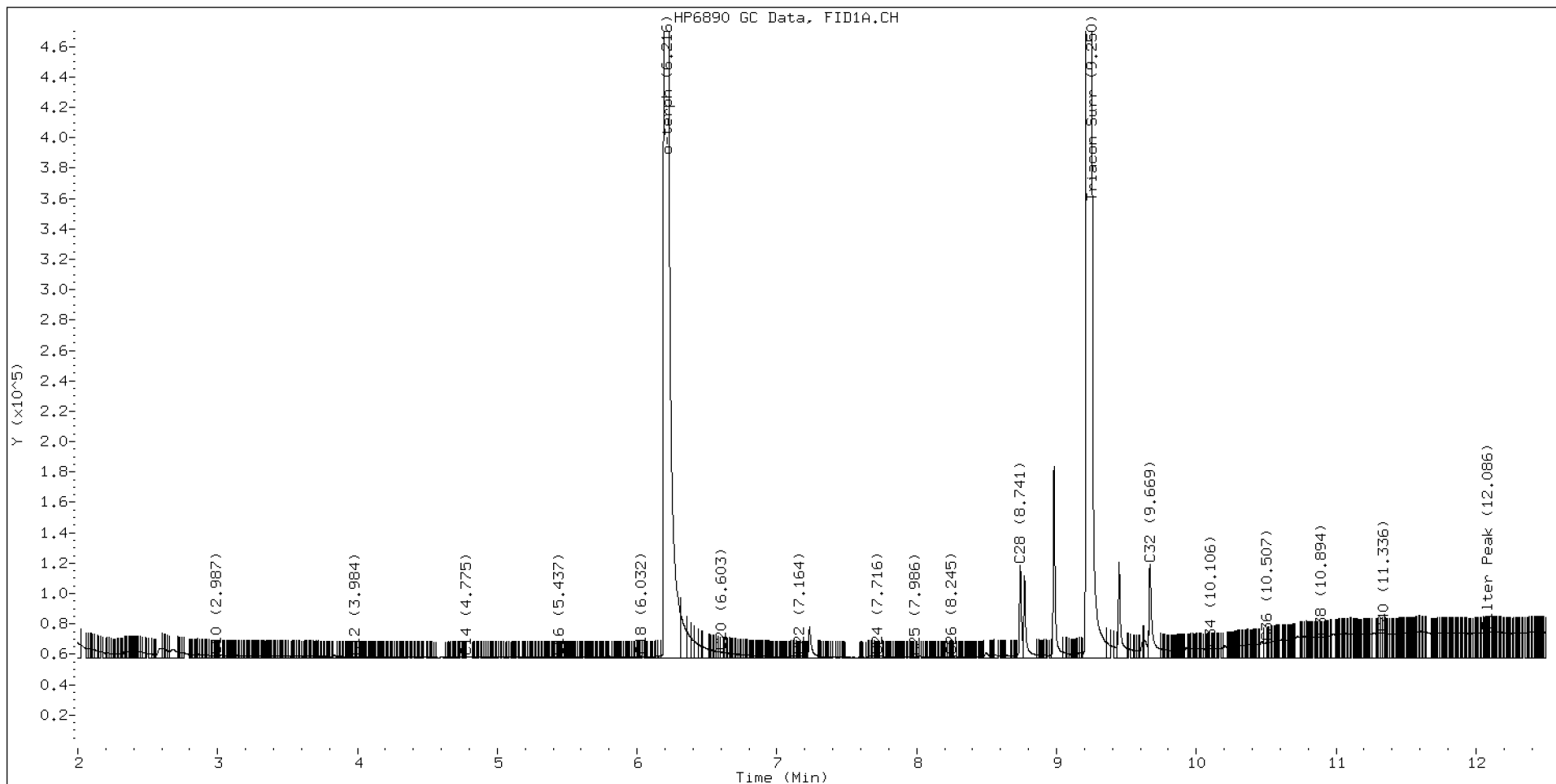
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.887	0.014	30582	30741	WATPHD	(C12-C24)	304017	1.9
C10	2.987	0.002	1259	669	WATPHM	(C24-C38)	1137342	11.2
C12	3.984	0.002	681	351	AK102	(C10-C25)	366635	1.9
C14	4.775	0.009	317	150	AK103	(C25-C36)	865222	11.8
C16	5.437	0.005	510	144	OR.DIES	(C10-C28)	522435	2.7
C18	6.032	-0.000	906	753				
C20	6.603	-0.001	3710	3745	JET-A	(C10-C18)	96986	0.6
C22	7.164	-0.003	828	420				
C24	7.716	0.000	835	390				
C25	7.986	0.002	652	472				
C26	8.245	-0.001	1078	490				
C28	8.741	-0.010	60481	55405				
C32	9.669	-0.010	61717	96500				
C34	10.106	0.004	6113	3897				
Filter Peak	12.086	0.002	16718	8335	BUNKERC	(C10-C38)	1500514	38.0
C36	10.507	0.005	9860	4413				
C38	10.894	0.003	13674	7503				
C40	11.336	-0.001	16174	8053				
o-terph	6.216	-0.003	17944832	19272905				
Triacon Surr	9.250	-0.004	11999588	17834110	NAS DIES	(C10-C24)	363172	1.9

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	19272905	94.2
Triacontane	17834110	120.2

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	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020





LCS / LCS DUPLICATE RECOVERY

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Matrix: <u>Water</u>	Analyzed: <u>11/10/20 11:07</u>
Batch: <u>BIJ0839</u>	Laboratory ID: <u>BIJ0839-BS1</u>
Preparation: <u>EPA 3510C SepF</u>	Sequence Name: <u>LCS</u>
Initial/Final: <u>500 mL / 1 mL</u>	

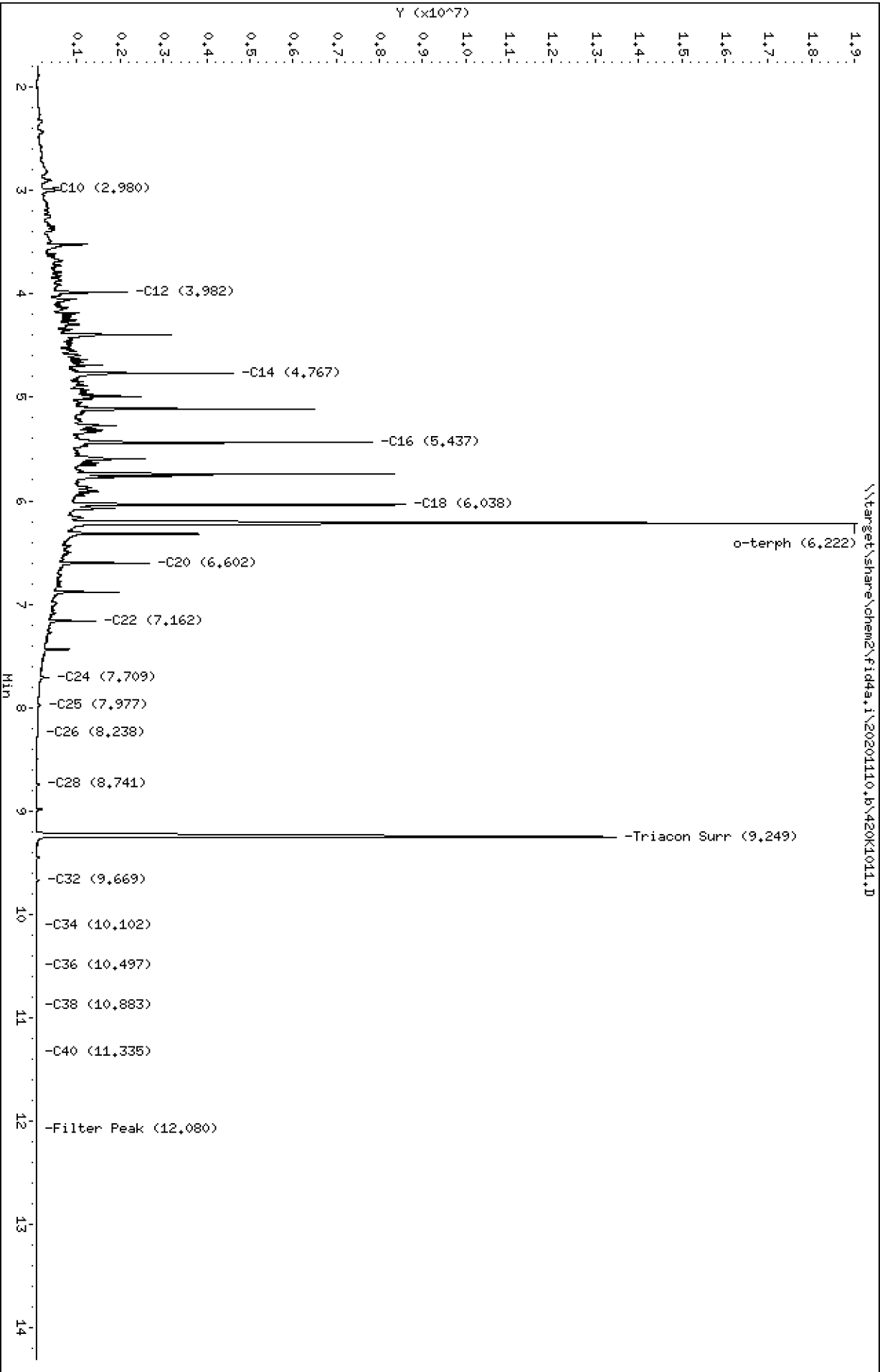
COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	Q	LCS % REC. #	QC LIMITS REC.
Diesel Range Organics (C12-C24)	3.00	2.36		78.7	56 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1011.D
Date: 10-NOV-2020 11:07
Client ID:
Sample Info: BJ00839-BS1

Column phase: RTX-1

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



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1011.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0839-BS1
Client ID:
Injection: 10-NOV-2020 11:07
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

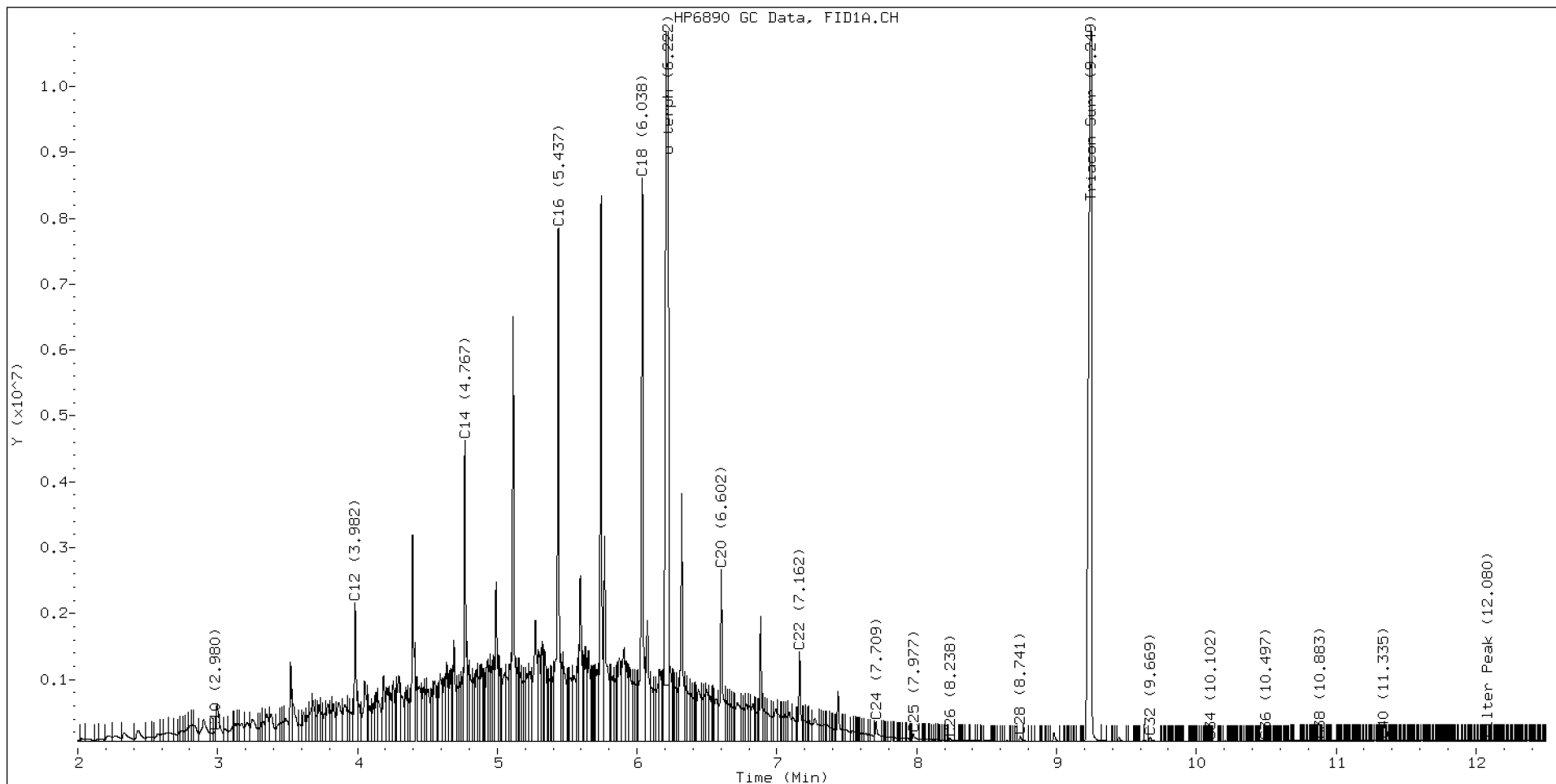
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.865	-0.009	26482	24030	WATPHD	(C12-C24)	188163016	1180.9
C10	2.980	-0.005	144355	136815	WATPHM	(C24-C38)	2049409	20.3
C12	3.982	0.001	2100020	2237121	AK102	(C10-C25)	212112283	1085.0
C14	4.767	0.001	4558808	3615860	AK103	(C25-C36)	1407139	19.2
C16	5.437	0.005	7783239	7752758	OR.DIES	(C10-C28)	212986644	1086.7
C18	6.038	0.006	8545834	8382263				
C20	6.602	-0.002	2610922	2852830	JET-A	(C10-C18)	162119486	977.5
C22	7.162	-0.004	1359442	1319565				
C24	7.709	-0.007	295251	430568				
C25	7.977	-0.007	106413	185368				
C26	8.238	-0.008	40651	64365				
C28	8.741	-0.009	74894	71175				
C32	9.669	-0.009	64203	79604				
C34	10.102	-0.000	2544	1099				
Filter Peak	12.080	-0.004	12297	7976	BUNKERC	(C10-C38)	213719209	5413.7
C36	10.497	-0.005	6186	4294				
C38	10.883	-0.008	10647	4758				
C40	11.335	-0.003	12351	4301				
o-terph	6.222	0.003	18137424	20206850				
Triacon Surr	9.249	-0.004	13410445	18486197	NAS DIES	(C10-C24)	211669800	1084.7

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	20206850	98.7 M
Triacontane	18486197	124.6

M Indicates the peak was manually integrated

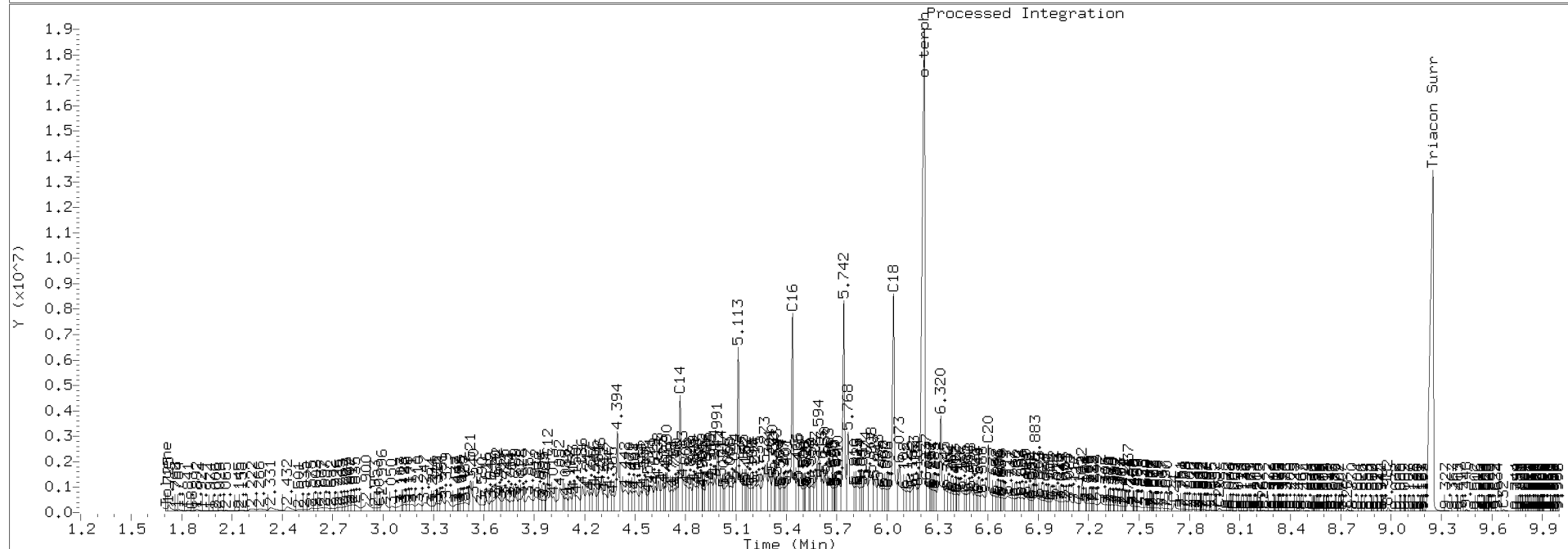
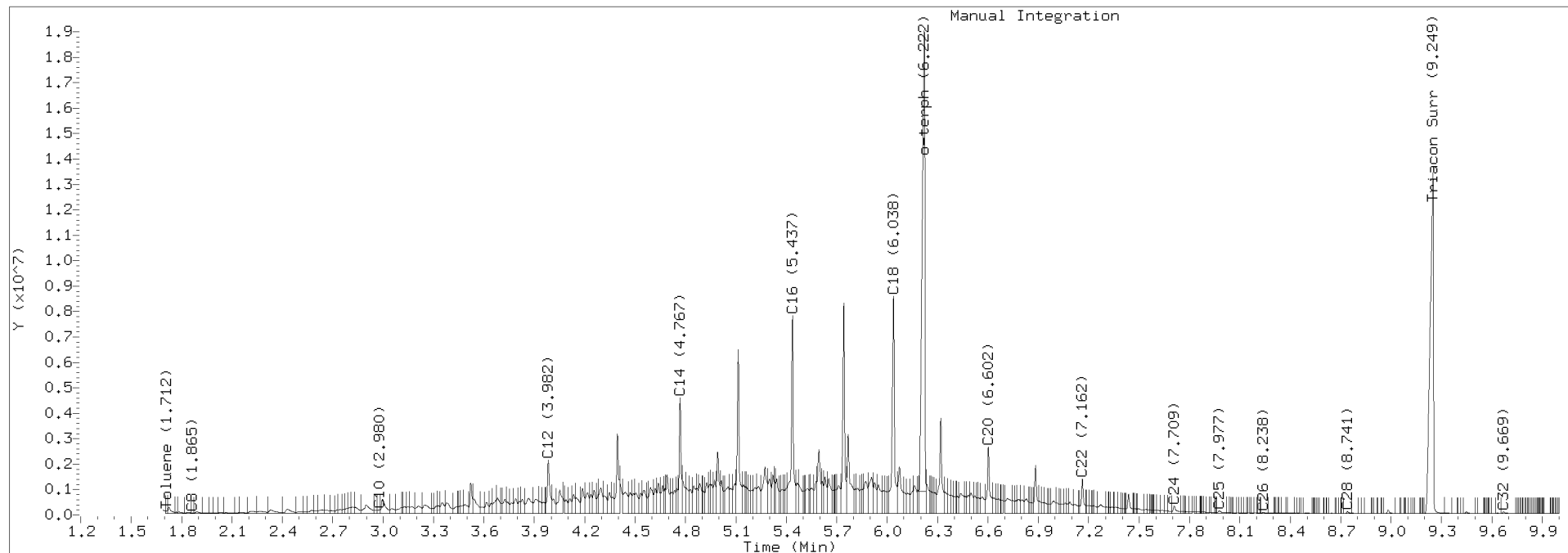
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1011.D Injection: 10-NOV-2020 11:07

Lab ID:BIJ0839-BS1





MS / MS DUPLICATE RECOVERY
NWTPH-Dx

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Analyzed:	<u>11/10/20 11:48</u>
Batch:	<u>BIJ0839</u>	Laboratory ID:	<u>BIJ0839-MS1</u>
Preparation:	<u>EPA 3510C SepF</u>	Sequence Name:	<u>Matrix Spike</u>
Initial/Final:	<u>500 mL / 1 mL</u>	Source Sample:	<u>SC-FB-2010261145</u>

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	Q	MS CONCENTRATION (mg/L)	Q	MS % REC. #	QC LIMITS REC.
Diesel Range Organics (C12-C24)	3.00	ND	U	2.22		74.1	56 - 120

* Values outside of QC limits



MS / MS DUPLICATE RECOVERY
NWTPH-Dx

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Analyzed:	<u>11/10/20 12:09</u>
Batch:	<u>BIJ0839</u>	Laboratory ID:	<u>BIJ0839-MSD1</u>
Preparation:	<u>EPA 3510C SepF</u>	Sequence Name:	<u>Matrix Spike Dup</u>
Initial/Final:	<u>500 mL / 1 mL</u>	Source Sample:	<u>SC-FB-2010261145</u>

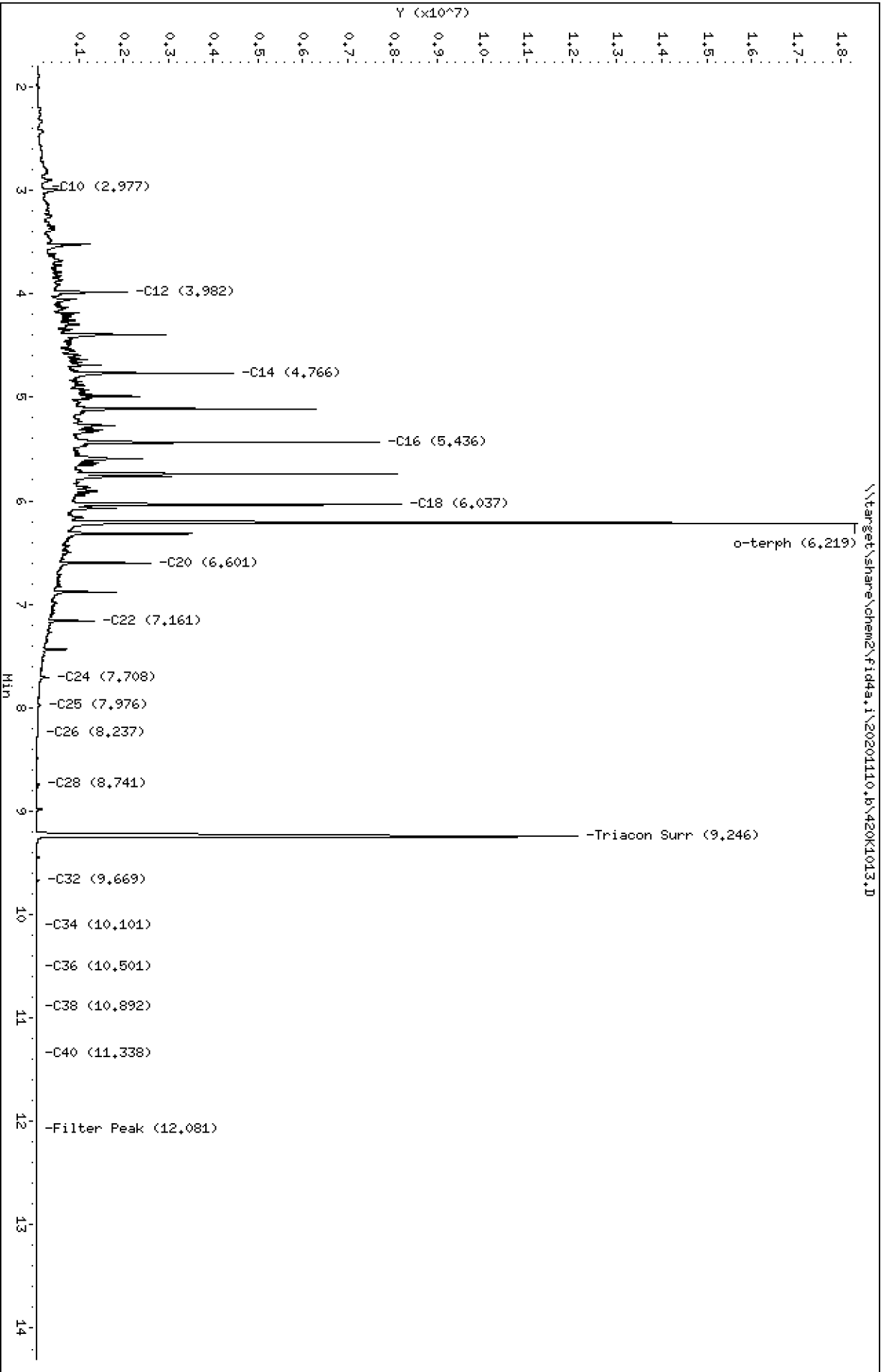
COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	Q	MSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Diesel Range Organics (C12-C24)	3.00	2.33		77.6	4.59	30	56 - 120

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1013.D
Date: 10-NOV-2020 11:48
Client ID:
Sample Info: B100839-HS1

Column phase: RTX-1

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



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1013.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0839-MS1
Client ID:
Injection: 10-NOV-2020 11:48
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

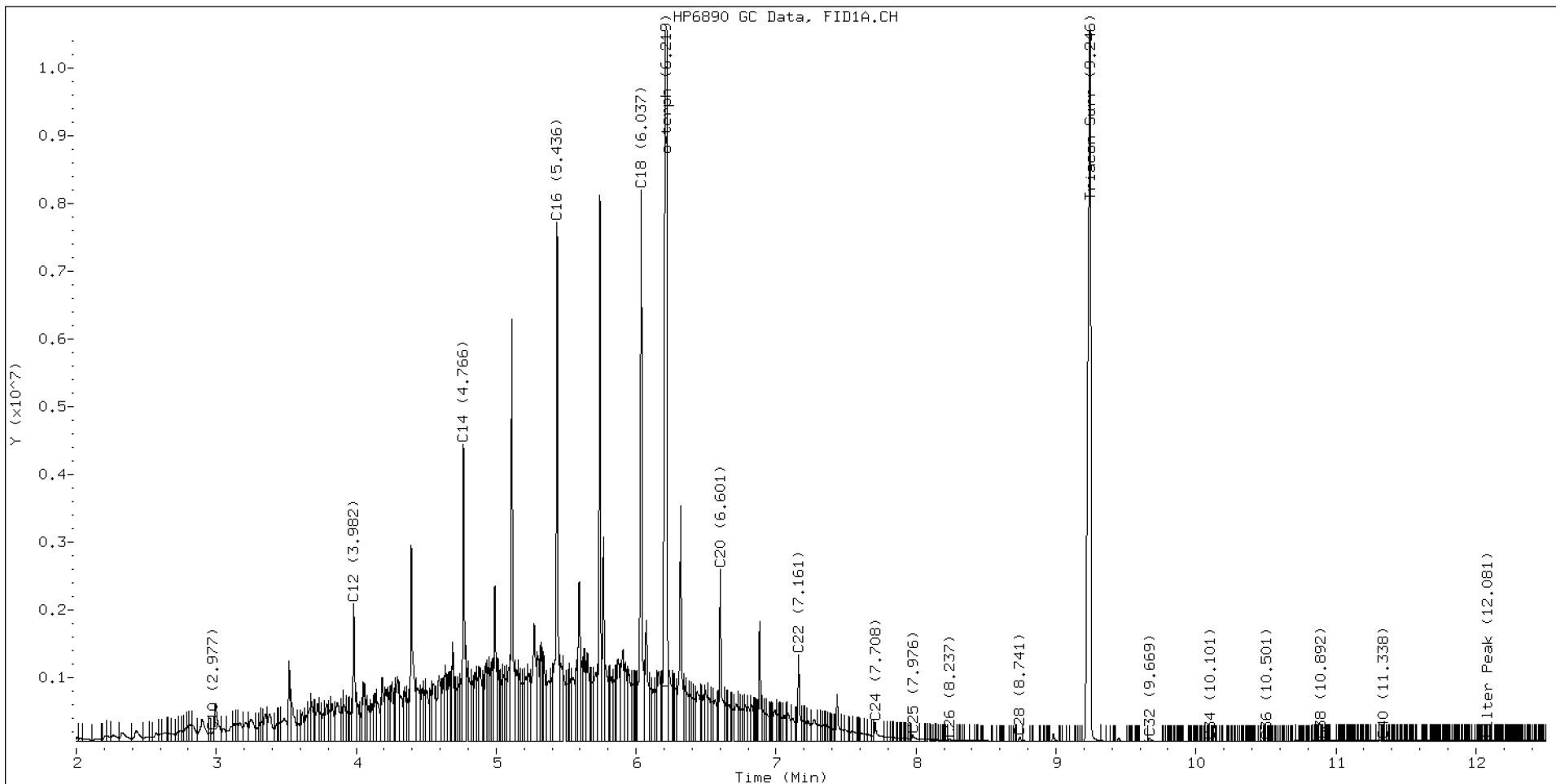
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.881	0.008	70422	54483	WATPHD	(C12-C24)	177193624	1112.1
C10	2.977	-0.008	141790	142029	WATPHM	(C24-C38)	1972976	19.5
C12	3.982	0.000	2030739	2256683	AK102	(C10-C25)	200776298	1027.0
C14	4.766	0.000	4386004	3682550	AK103	(C25-C36)	1264610	17.3
C16	5.436	0.003	7653903	7445273	OR.DIES	(C10-C28)	201616958	1028.7
C18	6.037	0.005	8136527	7922264				
C20	6.601	-0.003	2544708	2508086	JET-A	(C10-C18)	153787825	927.3
C22	7.161	-0.005	1278566	1188239				
C24	7.708	-0.008	270926	509373				
C25	7.976	-0.008	99610	184913				
C26	8.237	-0.009	38504	63164				
C28	8.741	-0.010	62942	60953				
C32	9.669	-0.010	51923	66721				
C34	10.101	-0.001	1614	1033				
Filter Peak	12.081	-0.002	12007	5340	BUNKERC	(C10-C38)	202219895	5122.4
C36	10.501	-0.000	5187	3575				
C38	10.892	0.001	9231	2755				
C40	11.338	0.000	11160	3338				
o-terph	6.219	0.000	17485436	17450856				
Triacon Surr	9.246	-0.008	12074244	15813945	NAS DIES	(C10-C24)	200246919	1026.1

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	17450856	85.3 M
Triacontane	15813945	106.6

M Indicates the peak was manually integrated

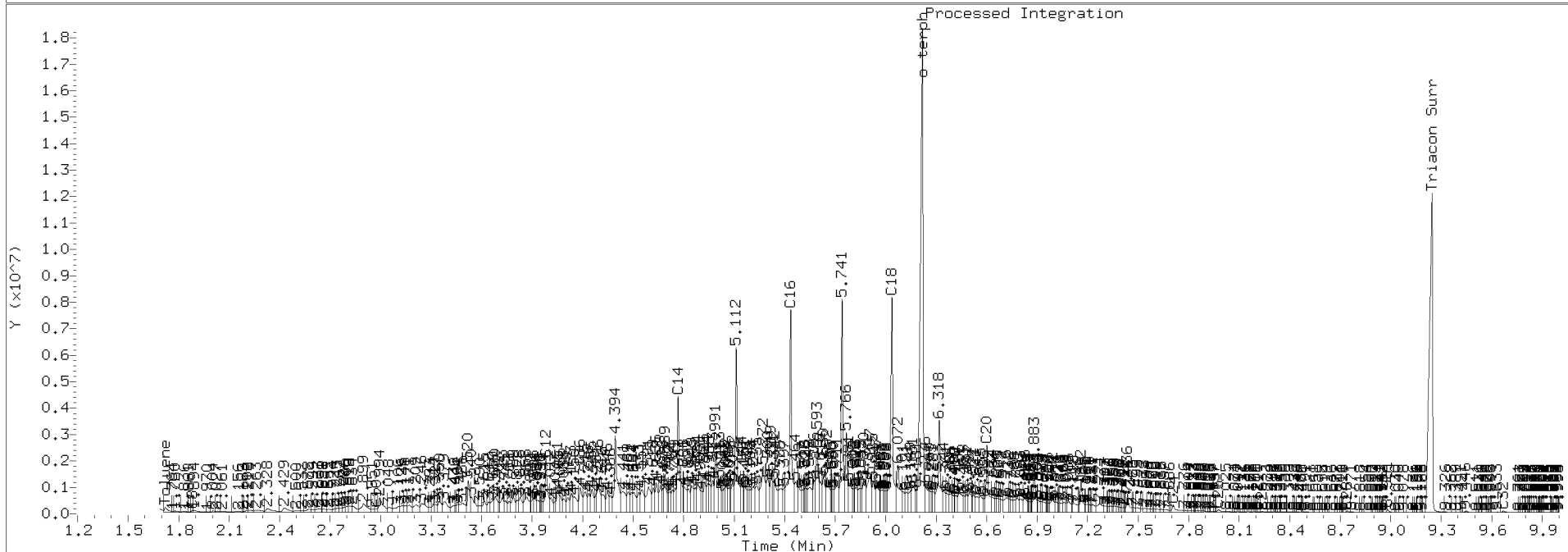
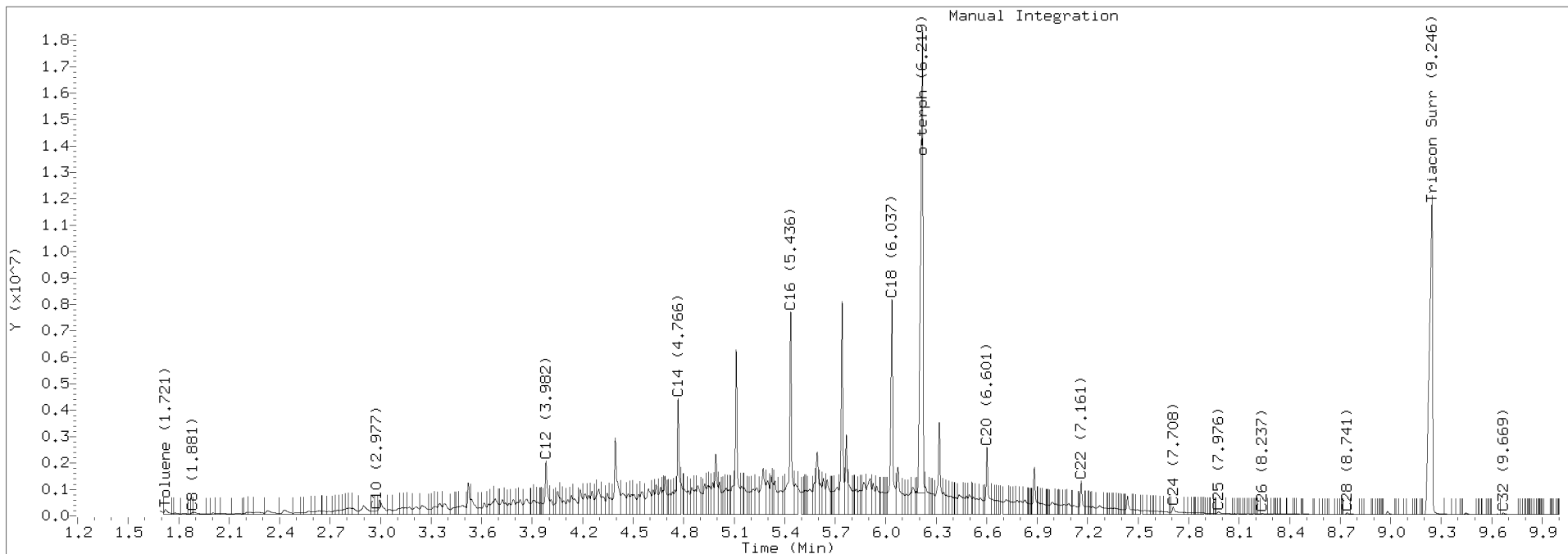
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1013.D Injection: 10-NOV-2020 11:48

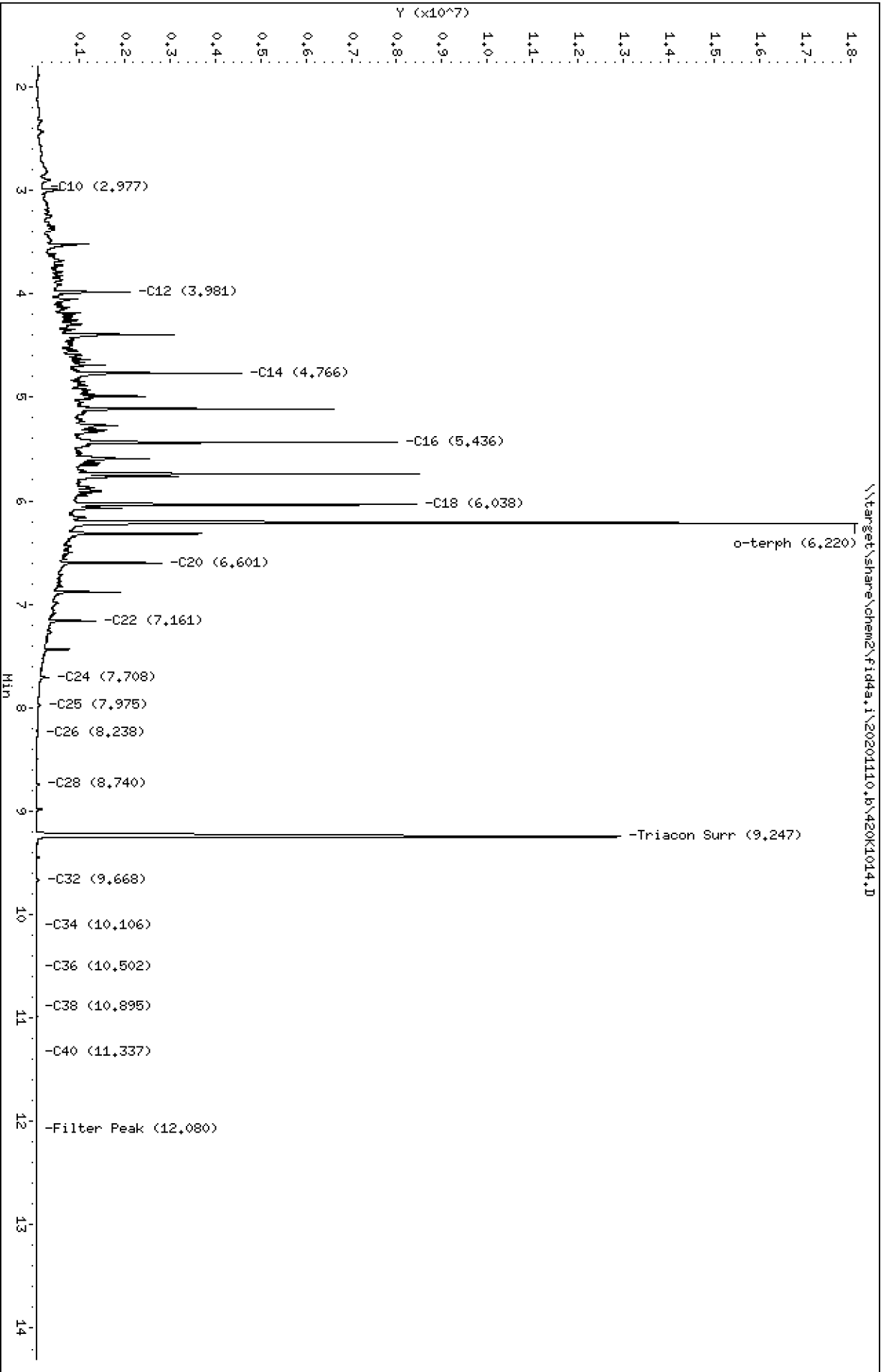
Lab ID:BIJ0839-MS1



Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1014.D
Date: 10-NOV-2020 12:09
Client ID:
Sample Info: B100839-HSD1

Column phase: RTX-1

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



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1014.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: BIJ0839-MSD1
Client ID:
Injection: 10-NOV-2020 12:09
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

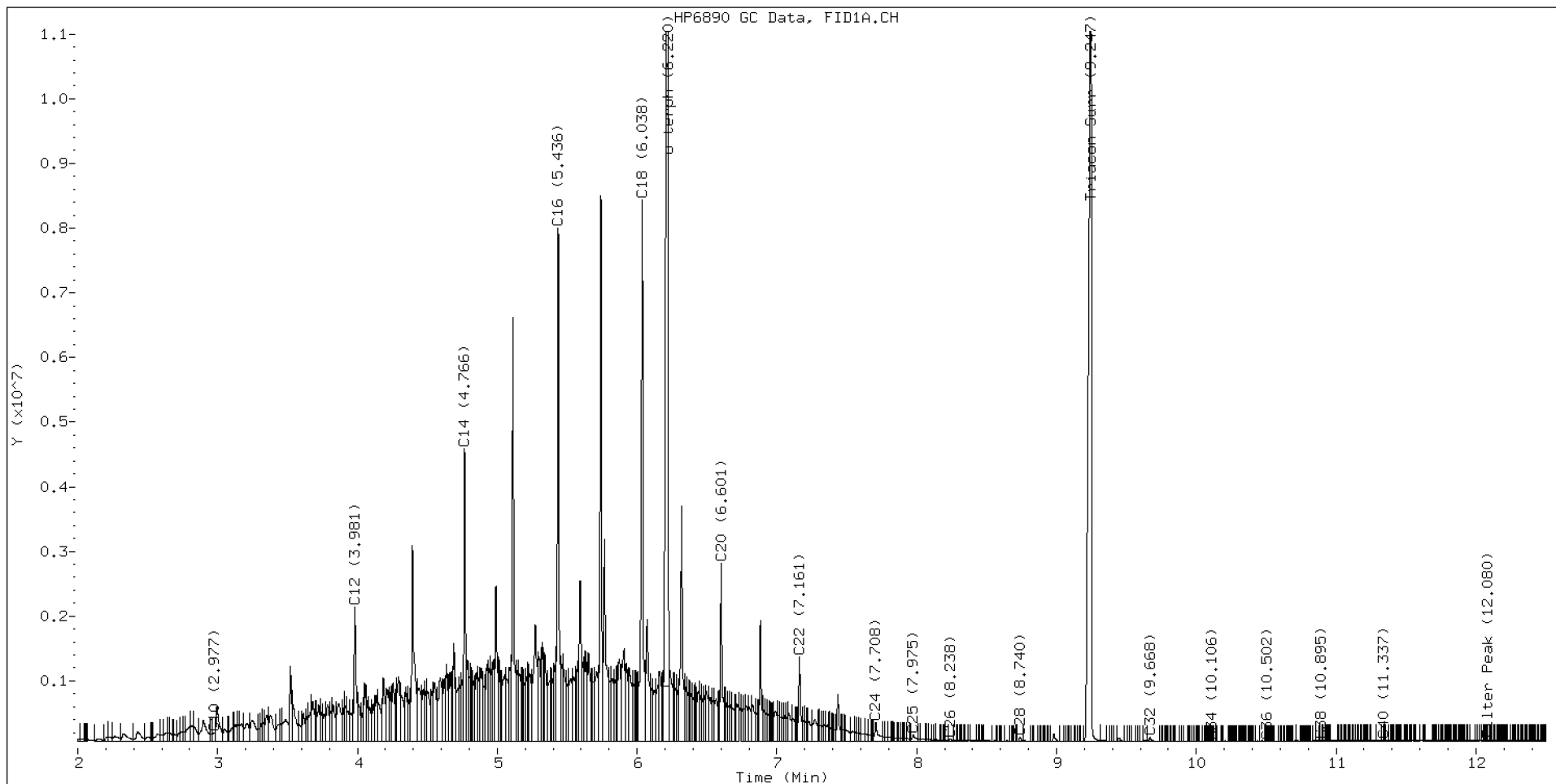
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.860	-0.013	21042	19265	WATPHD	(C12-C24)	185511433	1164.3
C10	2.977	-0.008	135297	130002	WATPHM	(C24-C38)	1858821	18.4
C12	3.981	-0.001	2077416	2213261	AK102	(C10-C25)	209003996	1069.1
C14	4.766	0.000	4528502	3543457	AK103	(C25-C36)	1255835	17.2
C16	5.436	0.004	7940758	6483963	OR.DIES	(C10-C28)	209859743	1070.7
C18	6.038	0.005	8364502	8333044				
C20	6.601	-0.003	2748987	2458297	JET-A	(C10-C18)	160190904	965.9
C22	7.161	-0.006	1297129	1305468				
C24	7.708	-0.008	283871	468155				
C25	7.975	-0.009	101052	160606				
C26	8.238	-0.008	38396	59648				
C28	8.740	-0.010	66278	63306				
C32	9.668	-0.011	56761	68847				
C34	10.106	0.004	784	323				
Filter Peak	12.080	-0.003	8511	2937	BUNKERC	(C10-C38)	210393989	5329.5
C36	10.502	0.000	3017	1036				
C38	10.895	0.004	6875	4699				
C40	11.337	-0.001	8008	2786				
o-terph	6.220	0.001	17237823	18206688				
Triacon Surr	9.247	-0.006	12864930	16895763	NAS DIES	(C10-C24)	208535167	1068.6

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	18206688	88.9 M
Triacontane	16895763	113.9

M Indicates the peak was manually integrated

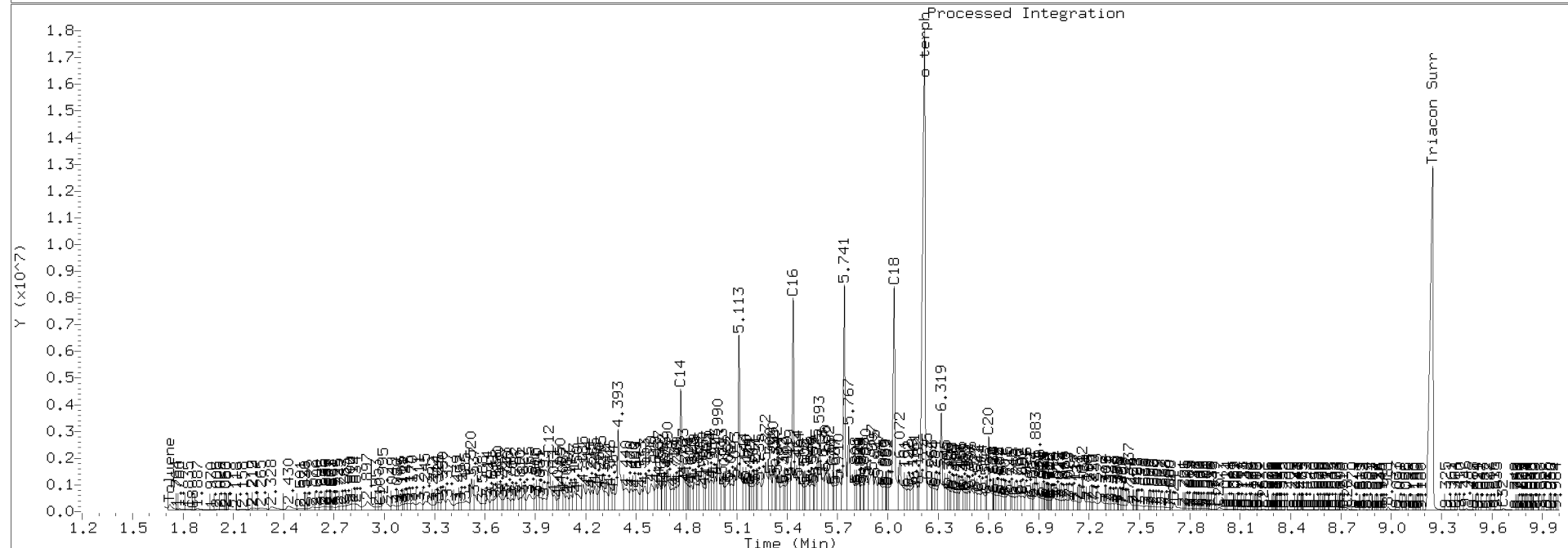
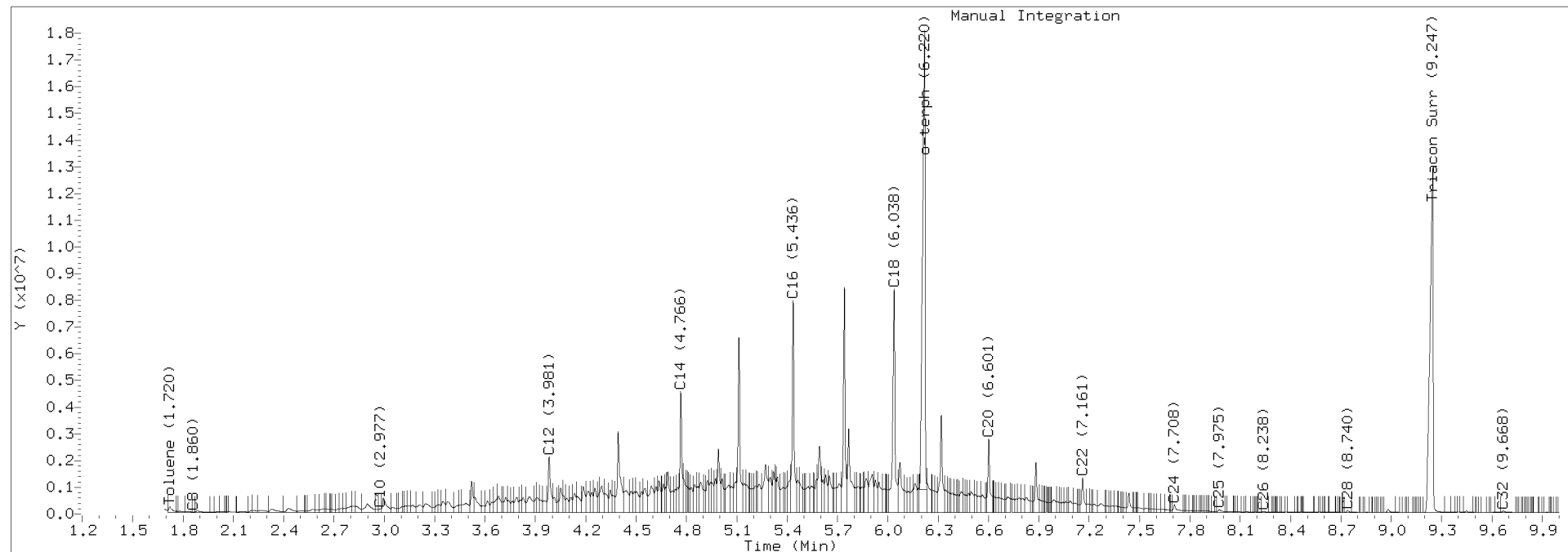
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1014.D Injection: 10-NOV-2020 12:09

Lab ID:BIJ0839-MSD1





INITIAL CALIBRATION DATA NWTPH-D_x

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	CJ00089	Instrument:	FID4
Calibration Date:	10/29/2019	Column (1):	RTX-1

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Diesel Range Organics (C12-C24)	50	182114.3	100	162168.4	250	151655.3	500	152220	1000	153066.8	2500	154795.4
o-Terphenyl	9	207237.8	18	202348.9	45	199293.8	90	202627.8	180	206915.5	450	209787.6



INITIAL CALIBRATION DATA

NWTPH-Dx

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	CJ00089	Instrument:	FID4
Calibration Date:	10/29/2019	Column (1):	RTX-1

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	100	RF	250	RF	500	RF	1000	RF	2500	RF	5000	RF
Motor Oil Range Organics (C24-C38)	100	135784.6	250	138615.1	500	128616.3	1000	130458.6	2500	132749.3	5000	129568.6



INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
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,

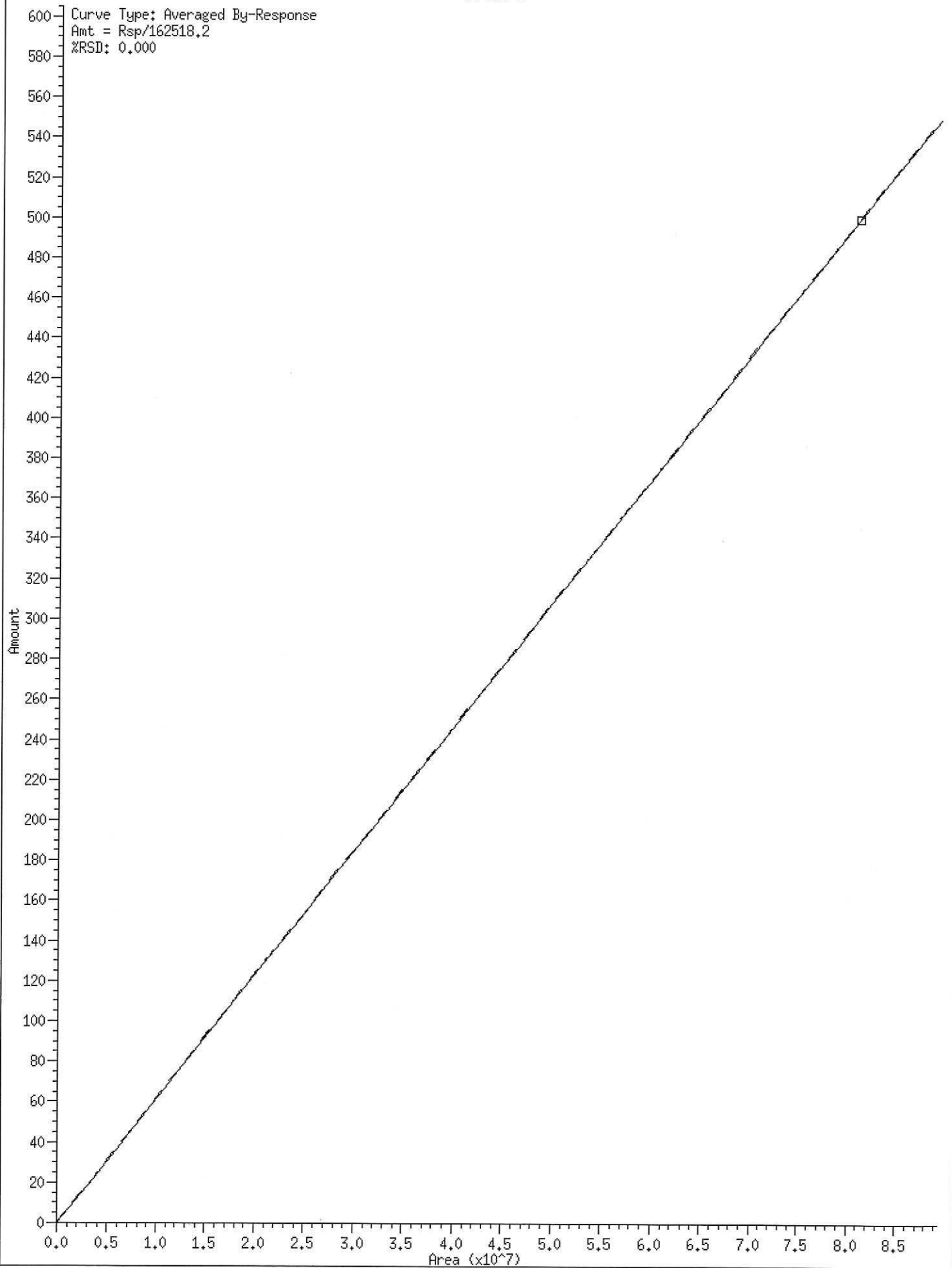
MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

Time	Filename	LabID	ClientID	DF	Manually Integrated Compounds
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

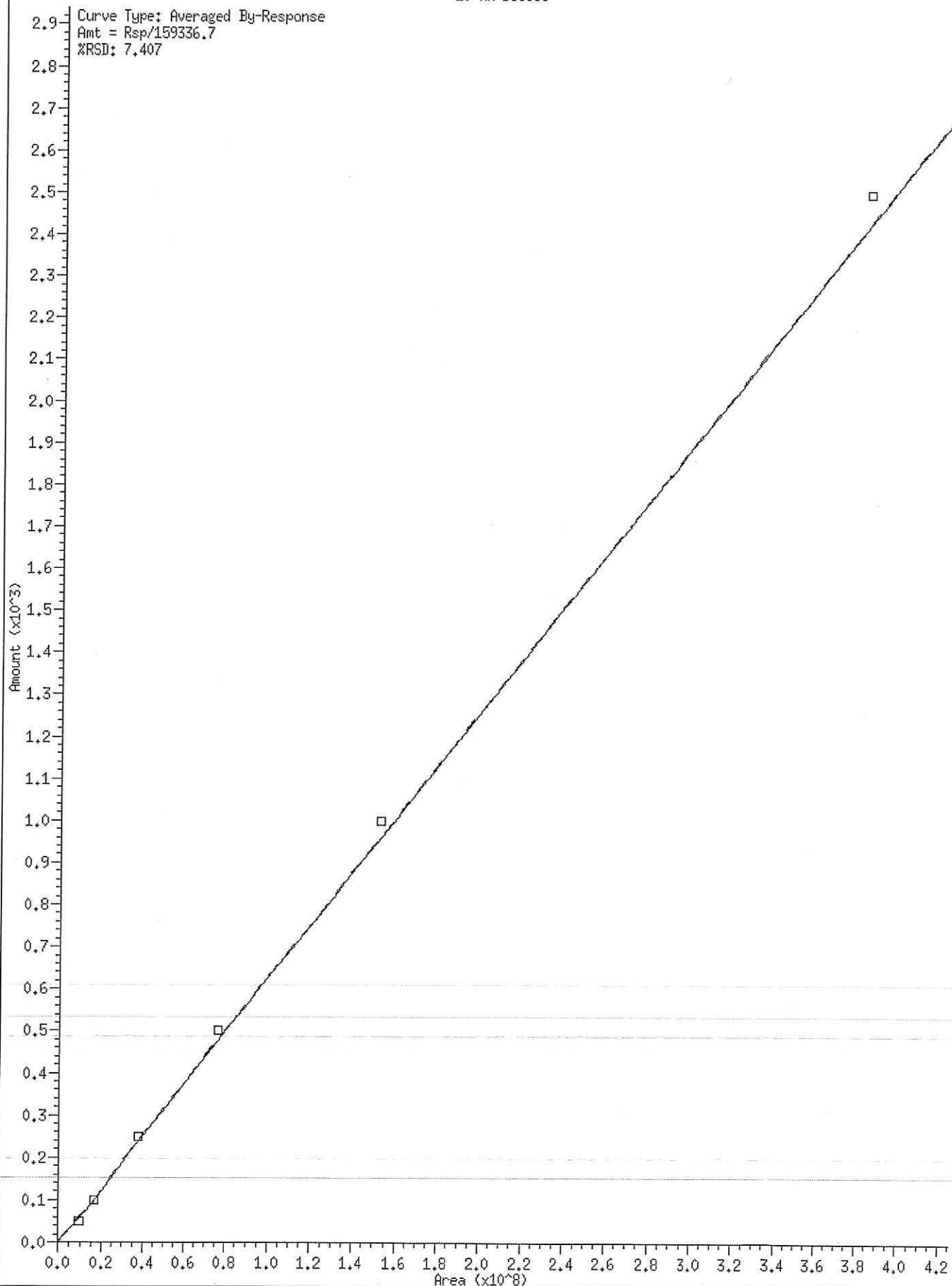
Date: 30-Oct-2019 07:25

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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

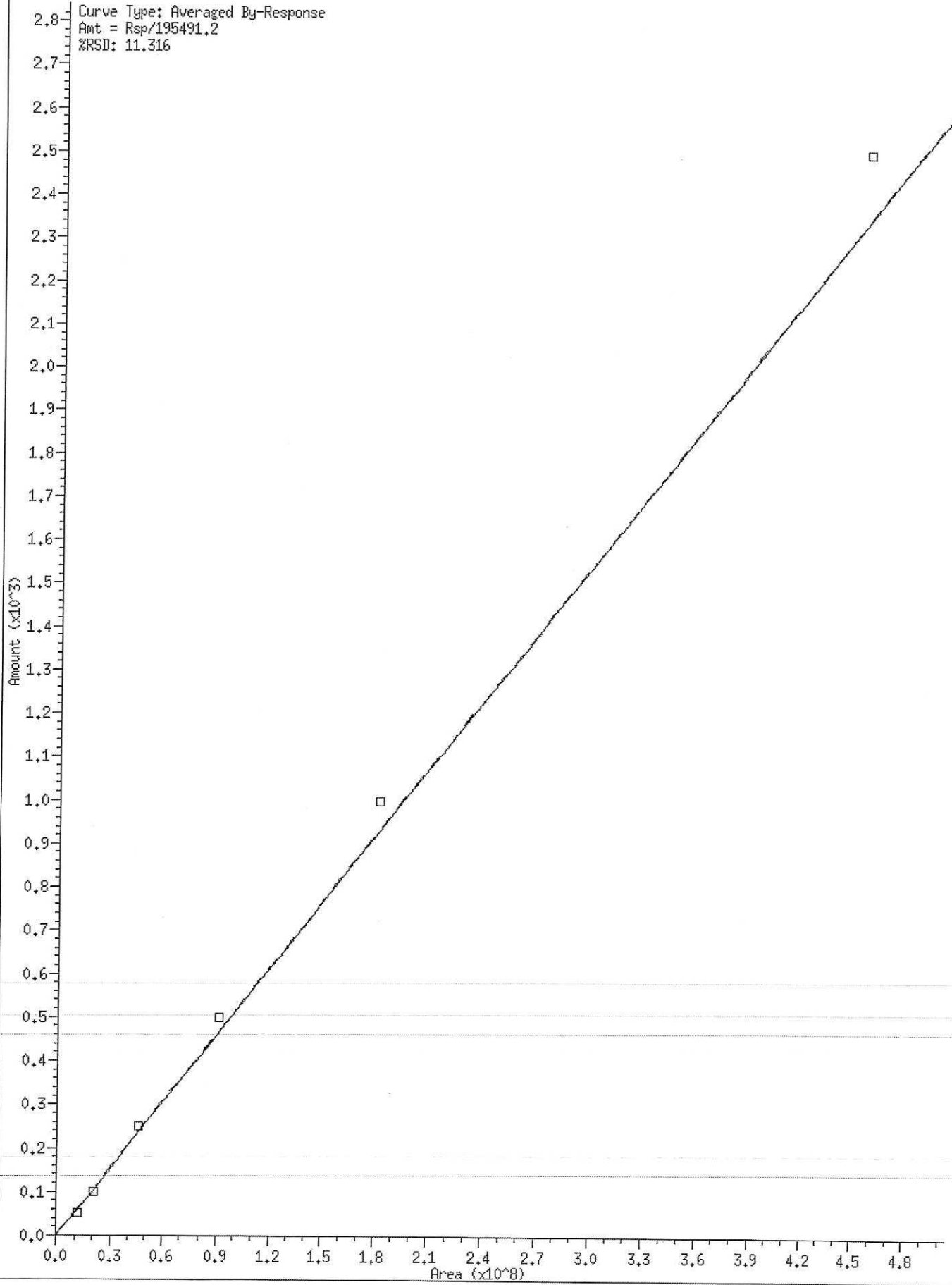


29 MW Diesel

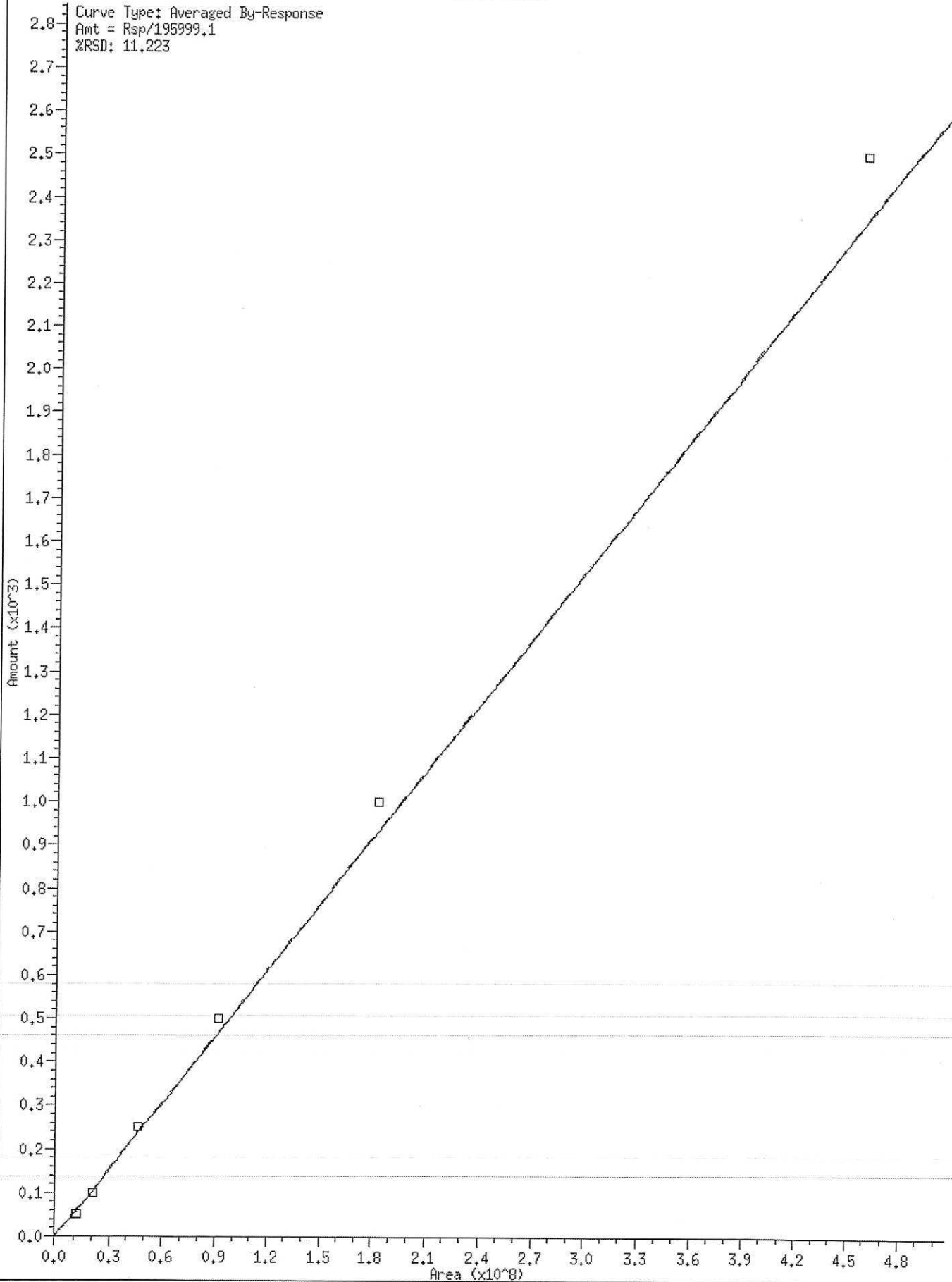
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%RSD: 7.407



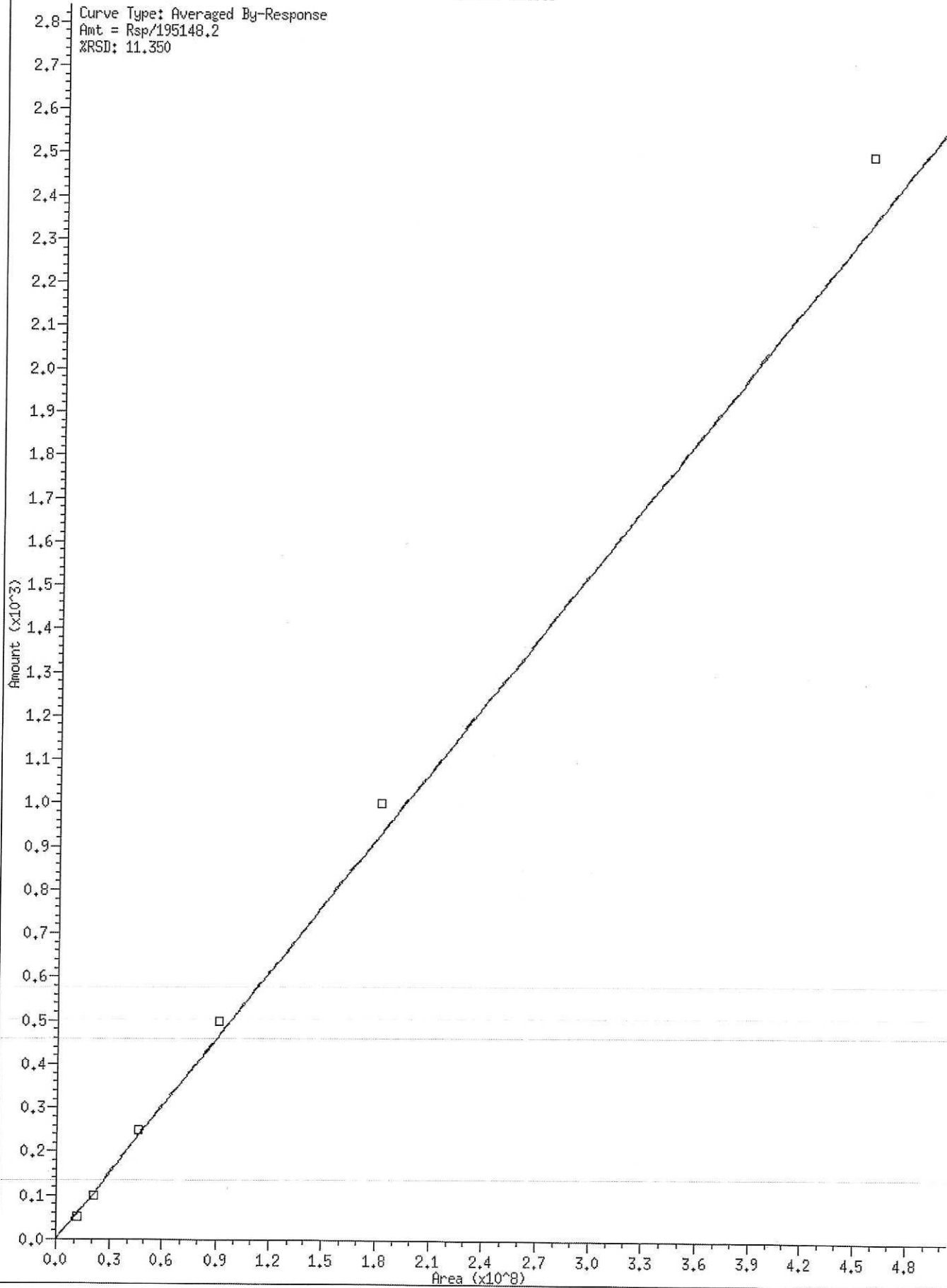
Curve Type: Averaged By-Response
Amt = Rsp/195491.2
%RSD: 11.316



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

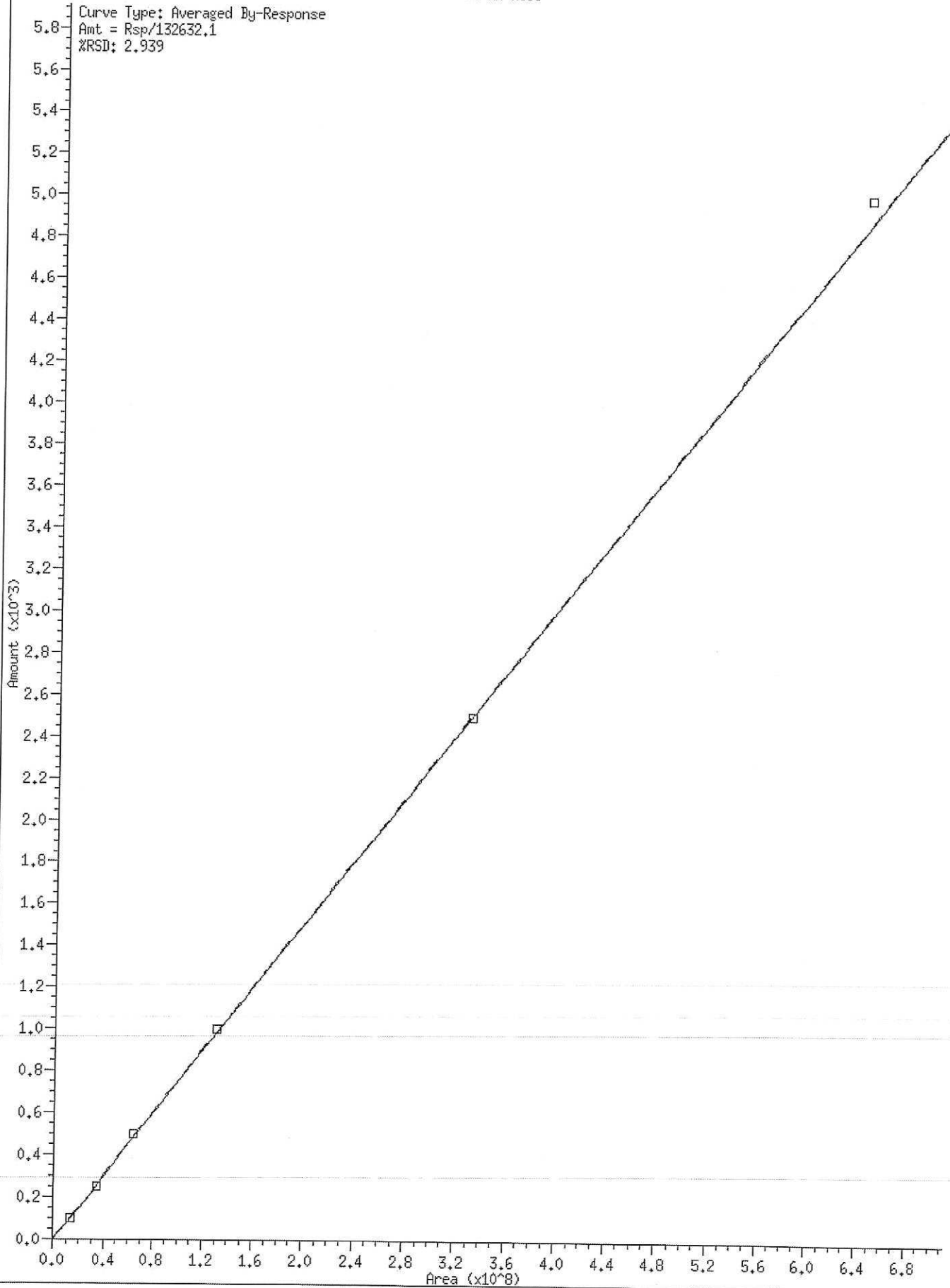


Curve Type: Averaged By-Response
Amt = Rsp/195148.2
%RSD: 11.350

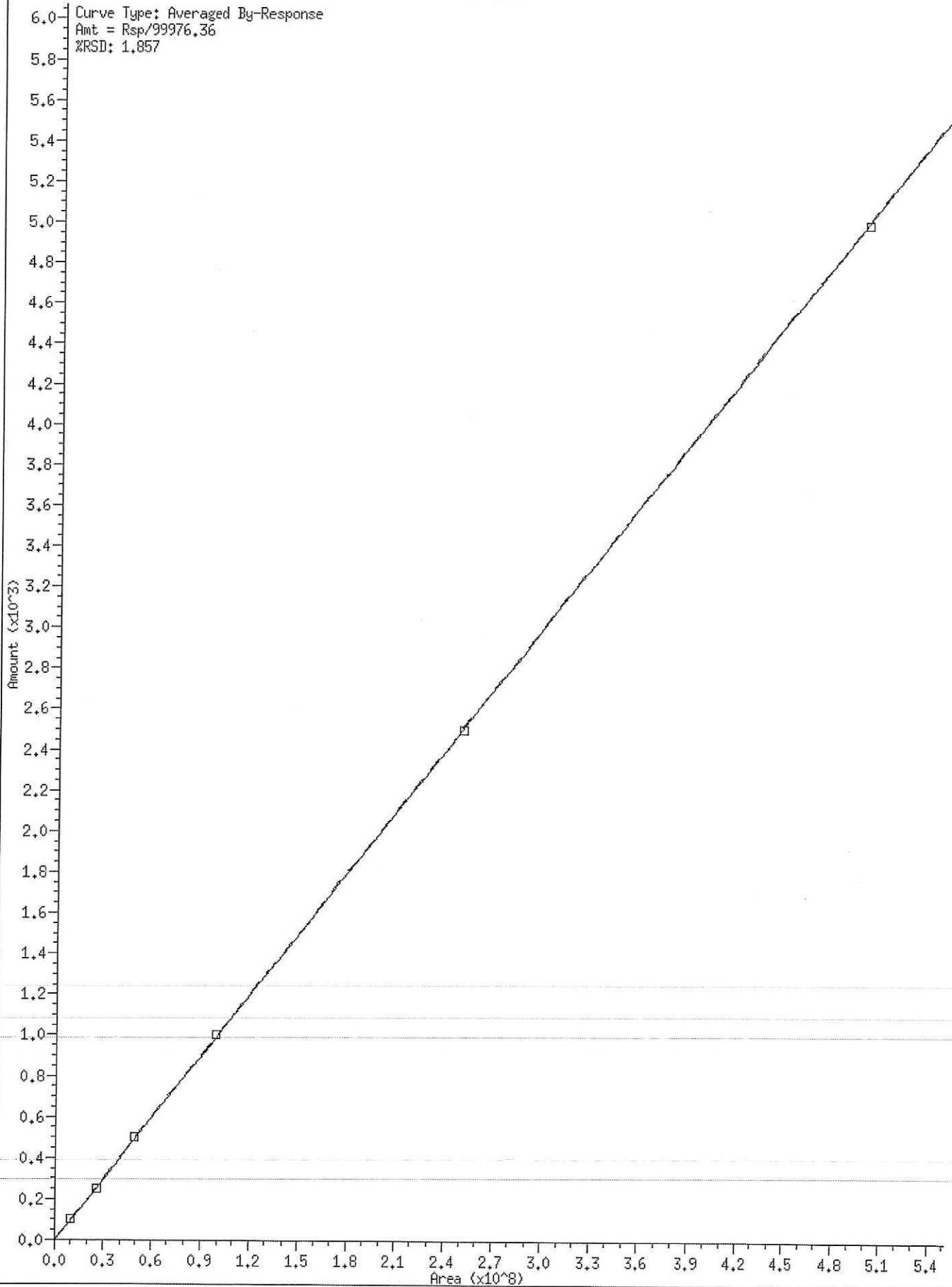


30 NW Moil

Curve Type: Averaged By-Response
Amt = Rsp/132632.1
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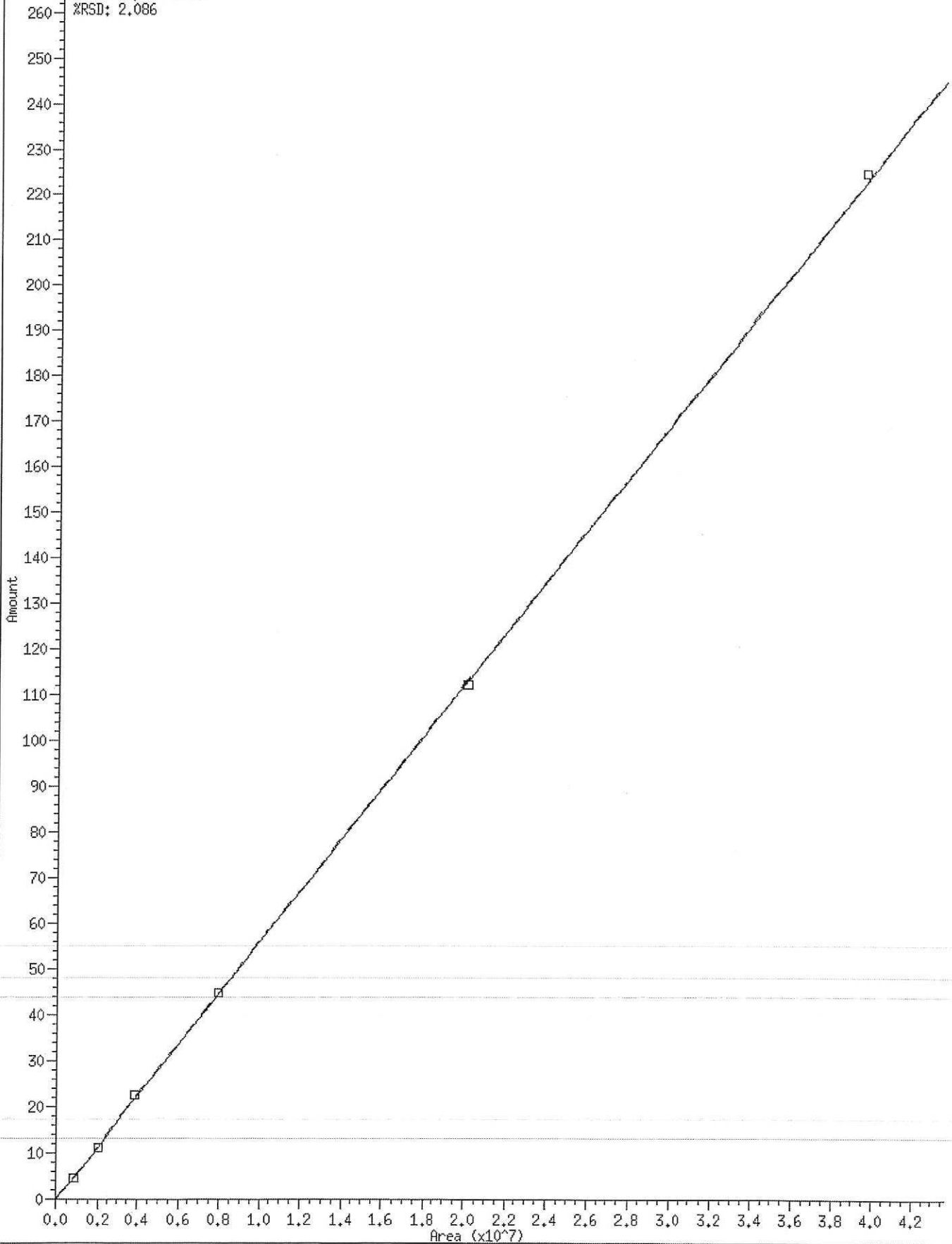


Curve Type: Averaged By-Response
Amt = Rsp/99976,36
%RSD: 1,857



15 Triacon Surr

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

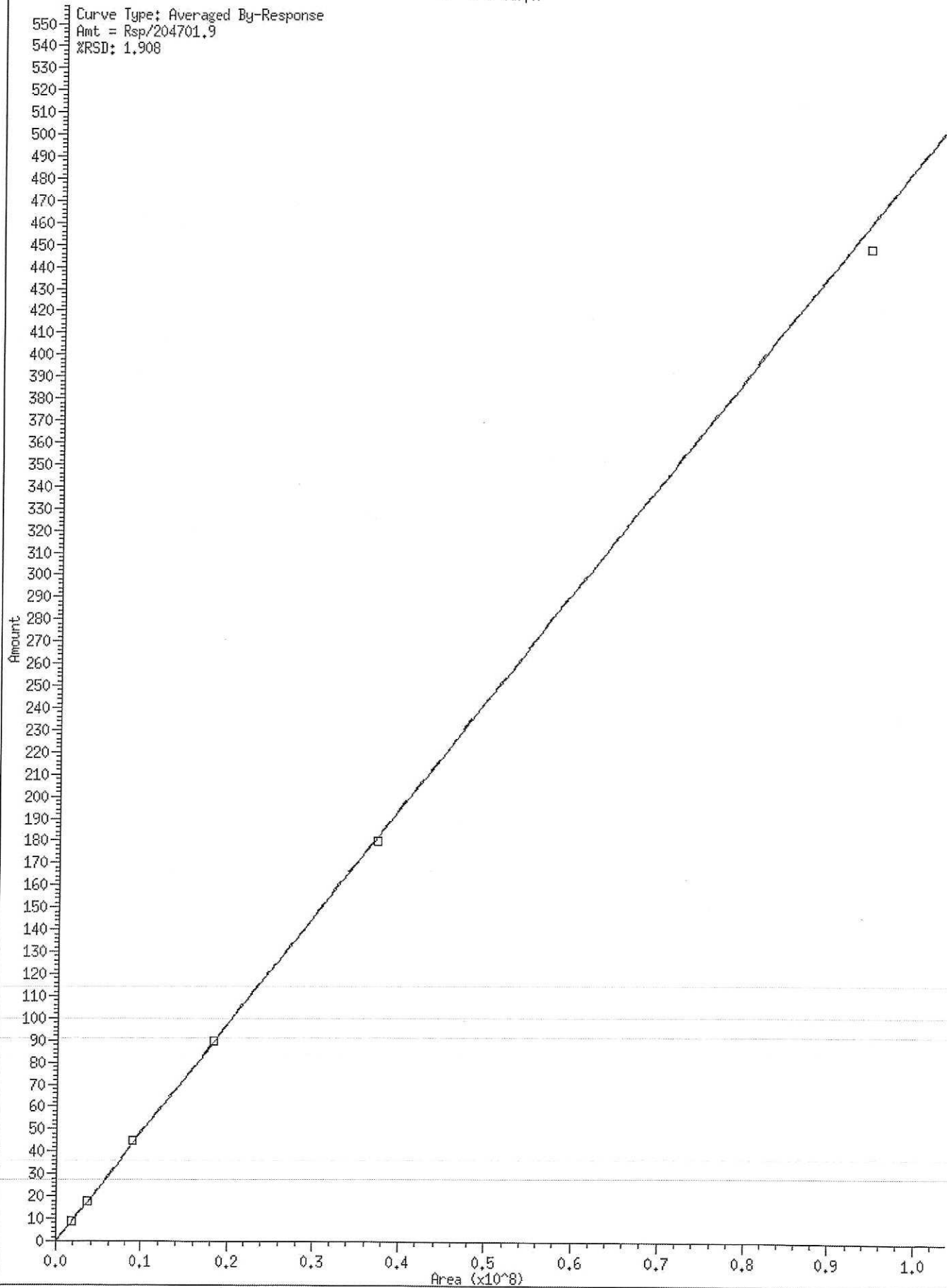


* 8 o-terph

Curve Type: Averaged By-Response

Amt = Rsp/204701.9

%RSD: 1.908



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Date: 25-OCT-2019 13:11

Client ID:

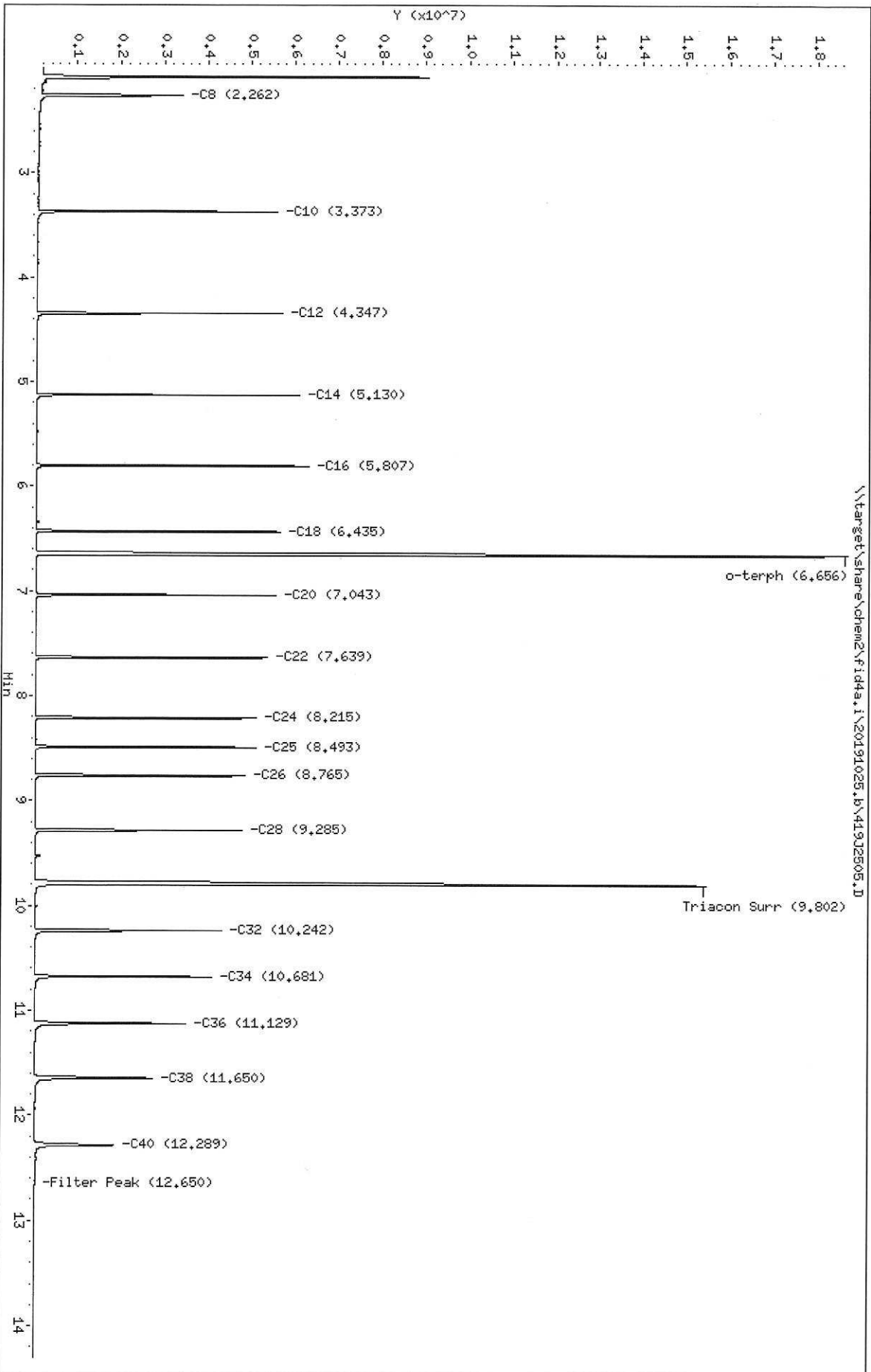
Sample Info: SH00406-IBL1

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

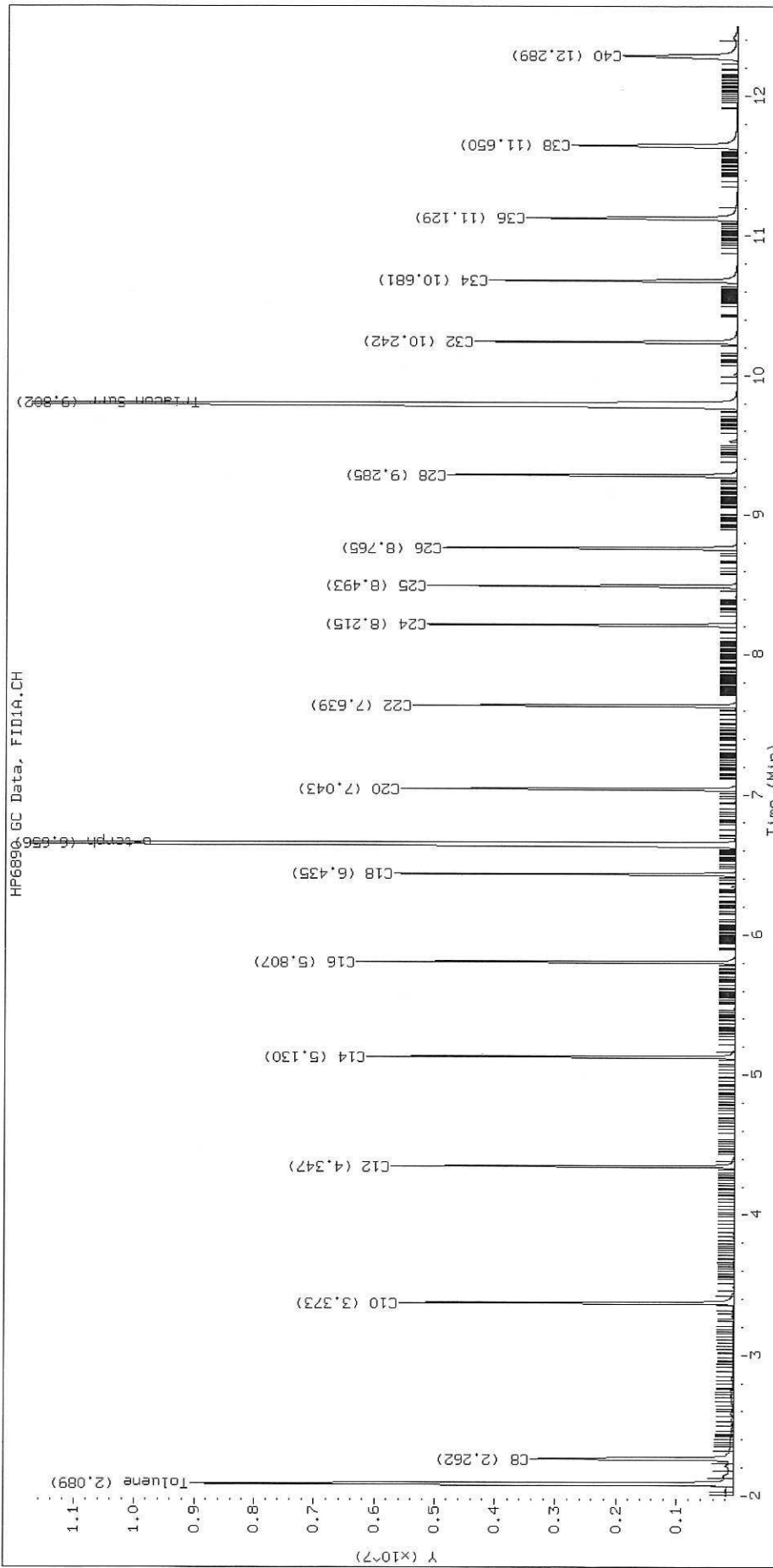
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

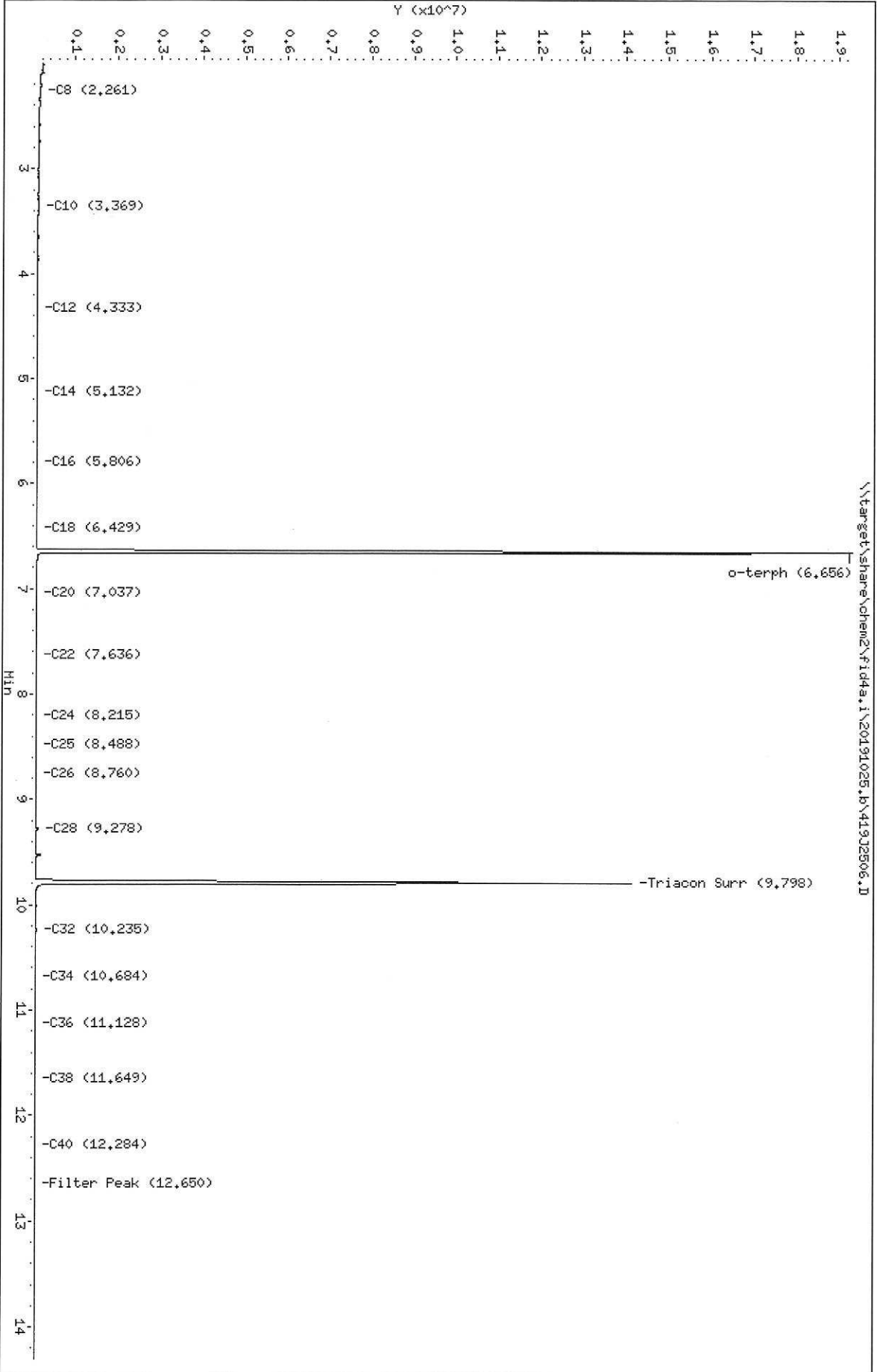
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Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2506.D
Date: 25-OCT-2019 13:31
Client ID:
Sample Info: SH00406-IBL2

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/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

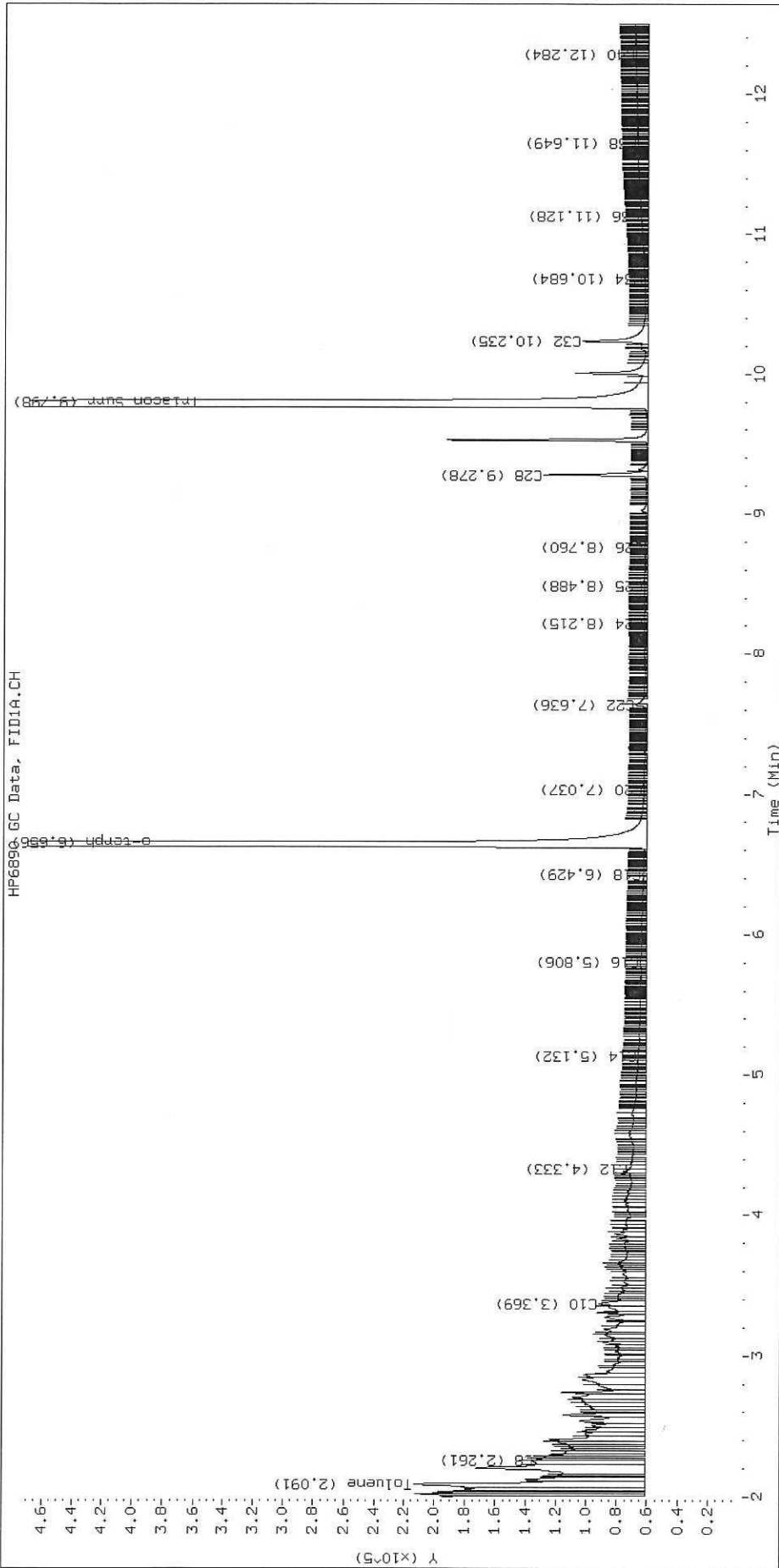
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

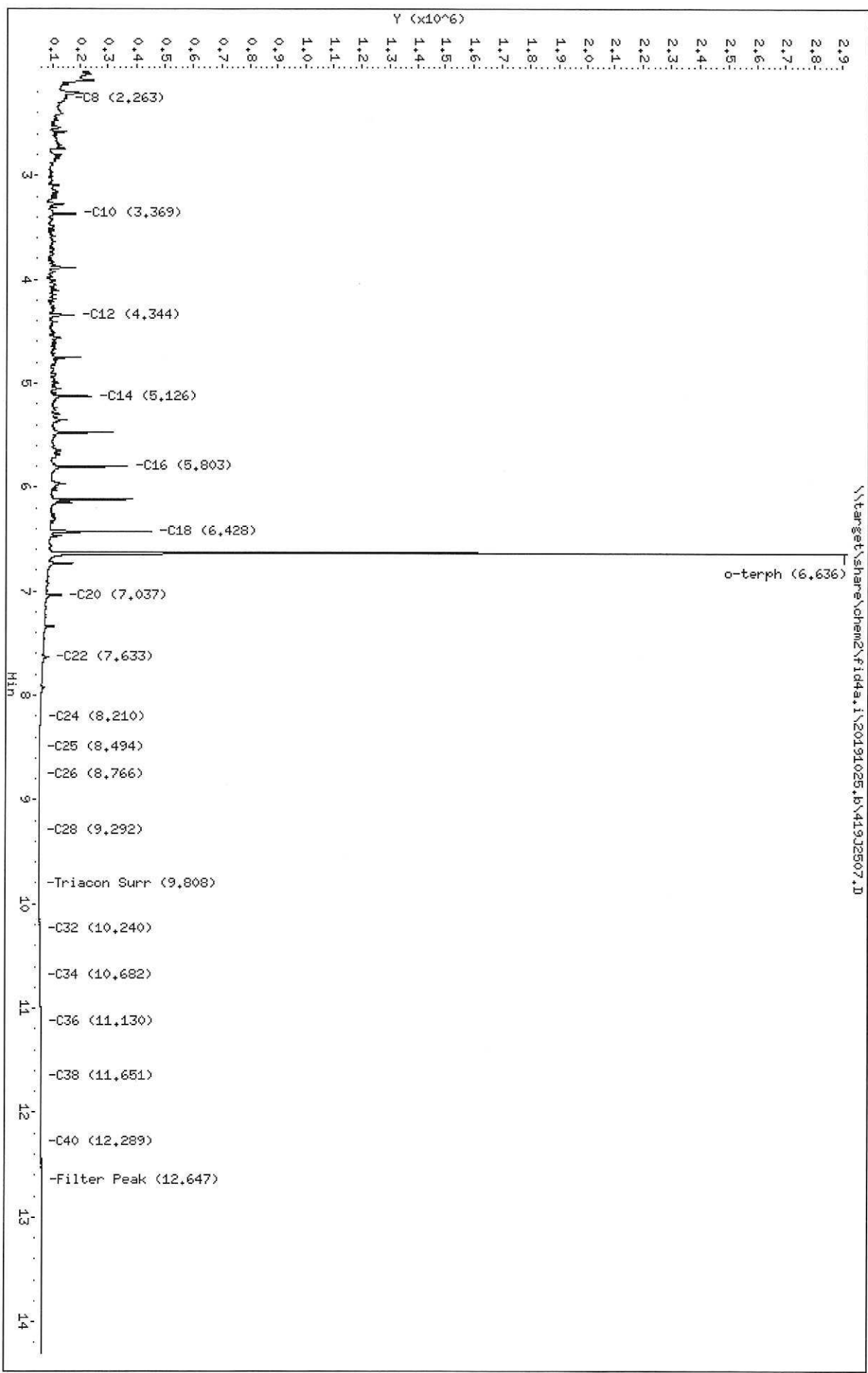
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Data File: \\target\share\chem2\fid4a.i\20191025.b\41932507.D
Date: 25-OCT-2019 13:52
Client ID:
Sample Info: SHJ0406-CELL1

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

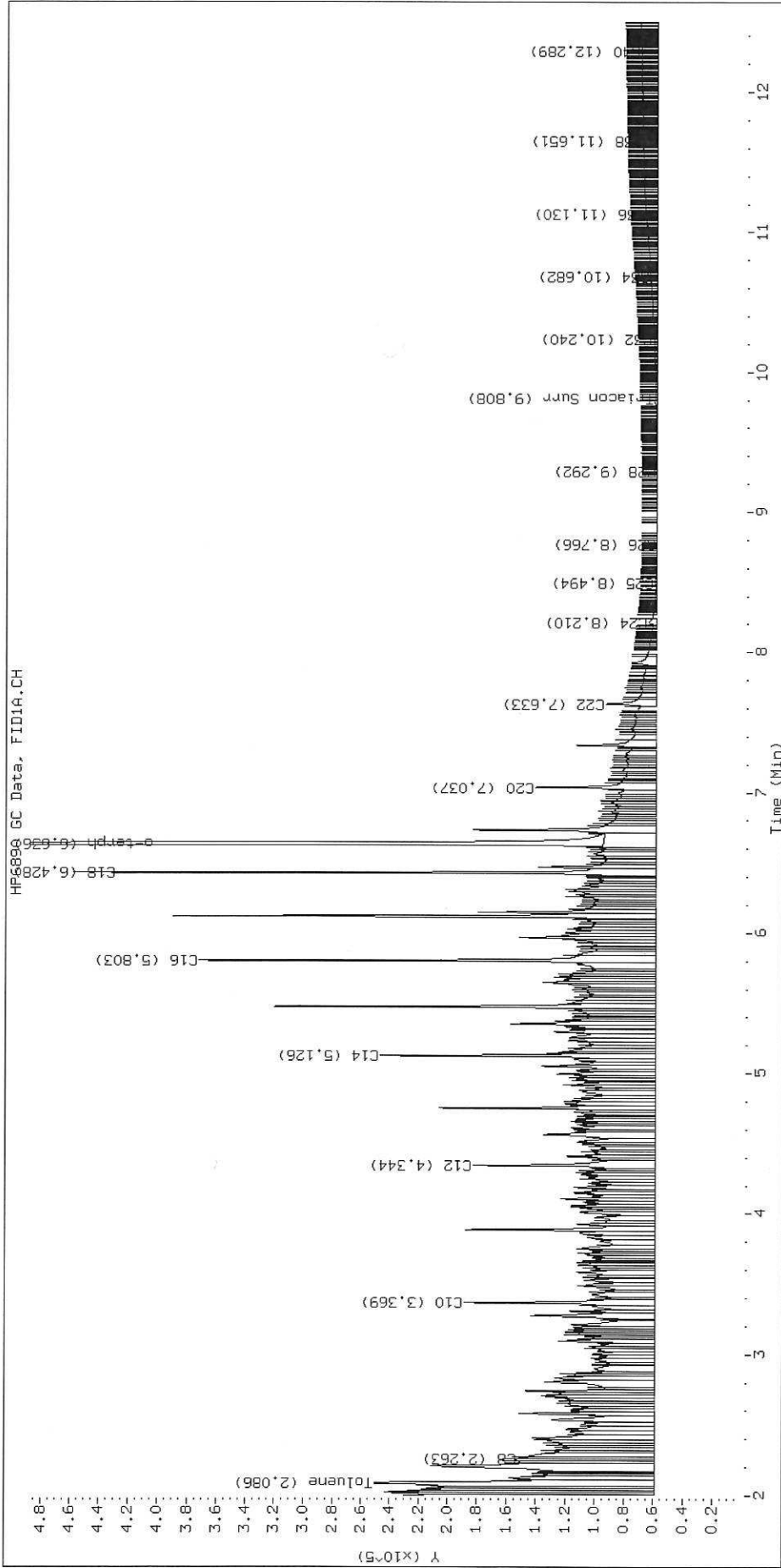
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NW M.Oil (8.21 - 11.65) AK103 (8.49 - 11.13) OR Diesel (3.37 - 9.29)

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 _____ 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 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 _____ 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 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	+++++	+++++

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Date: 25-OCT-2019 14:12

Client ID:

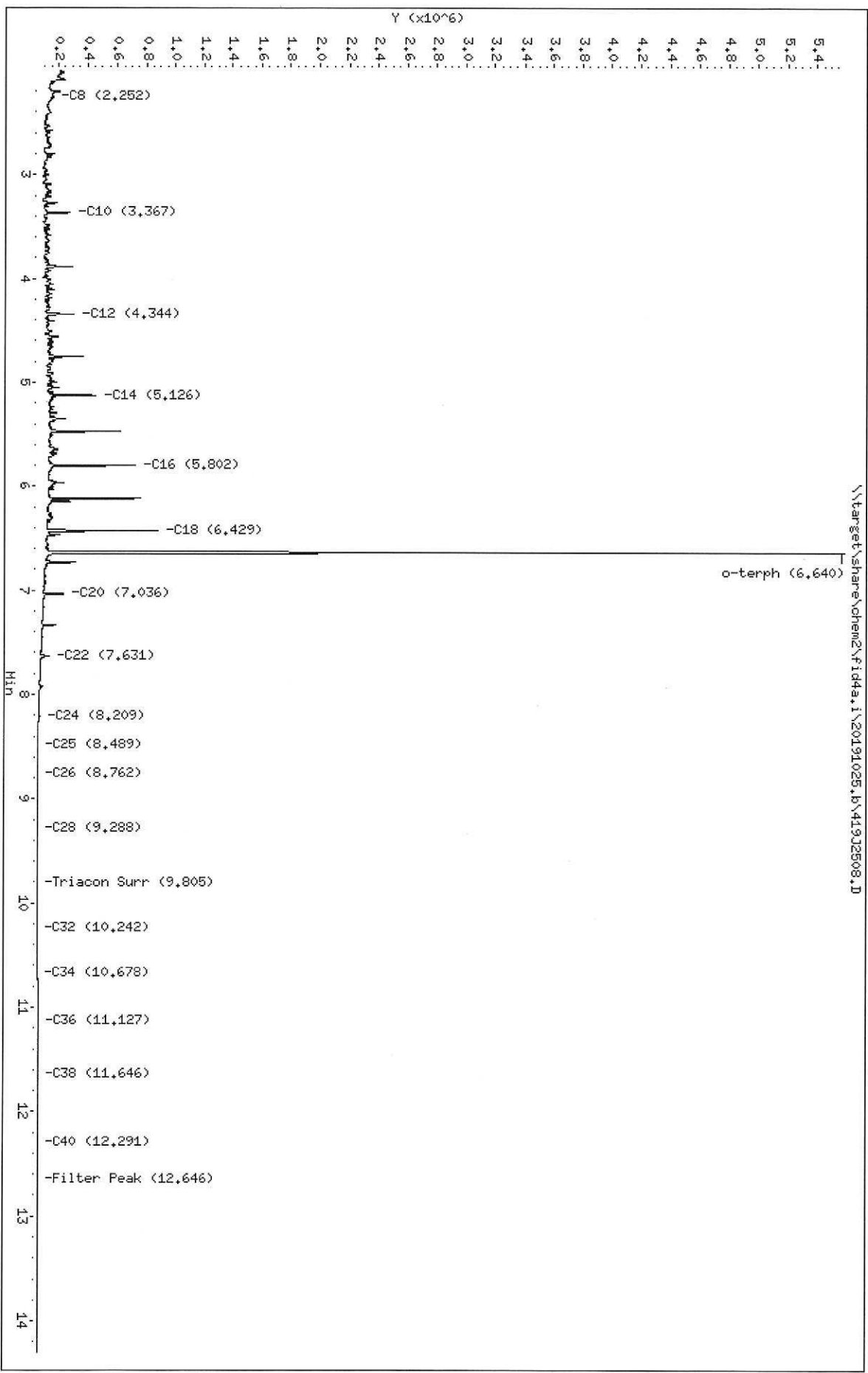
Sample Info: SHJ0406-CAL2

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

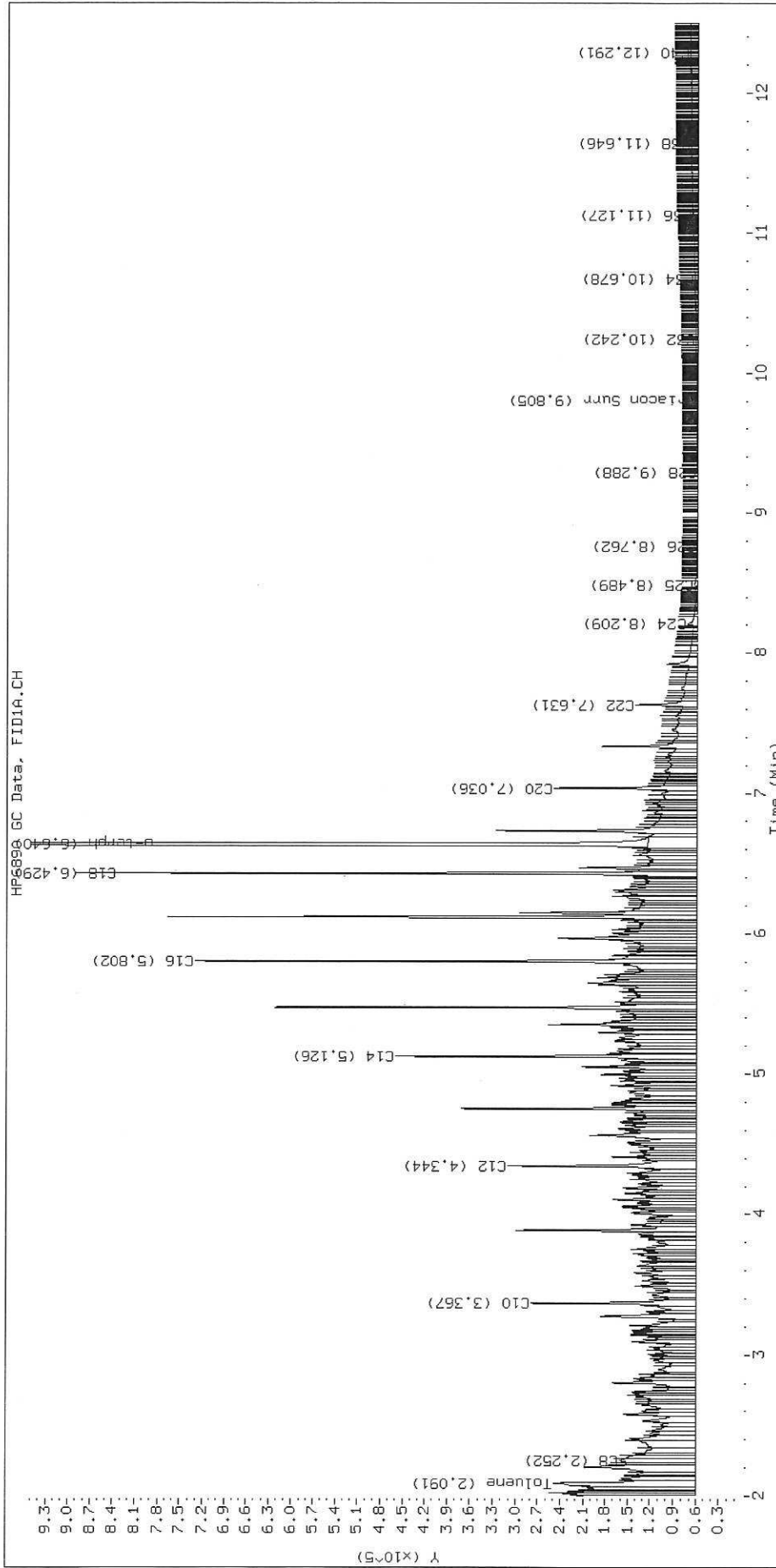
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

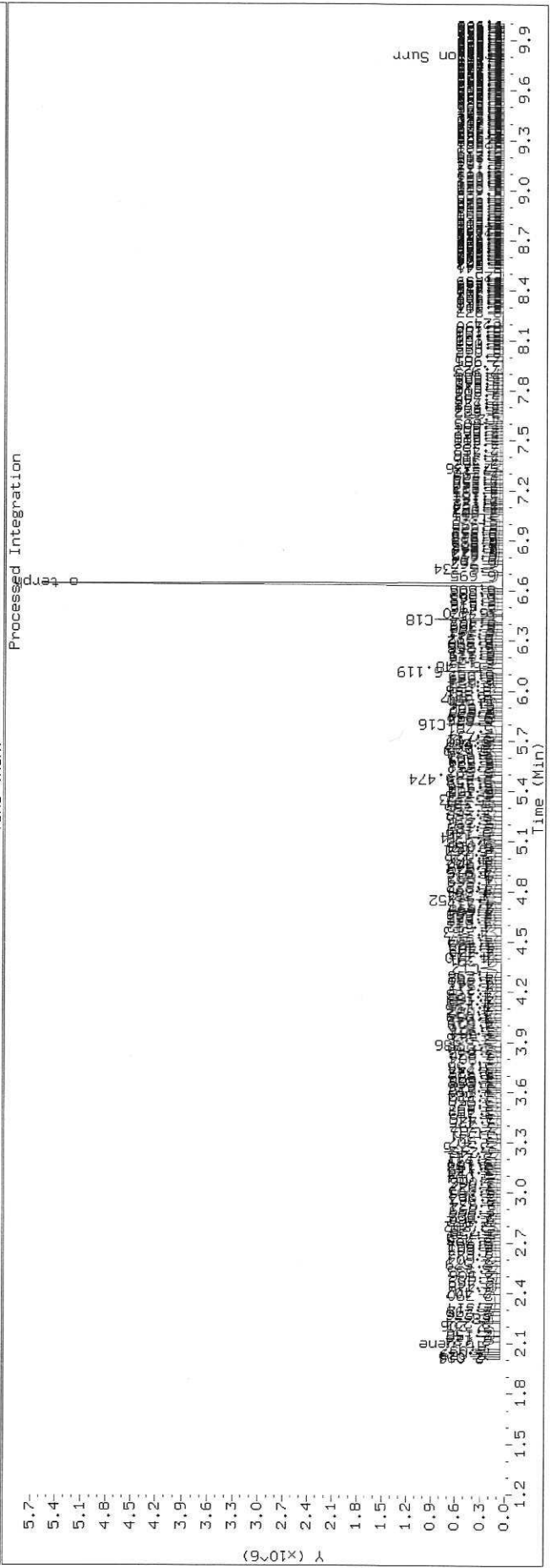
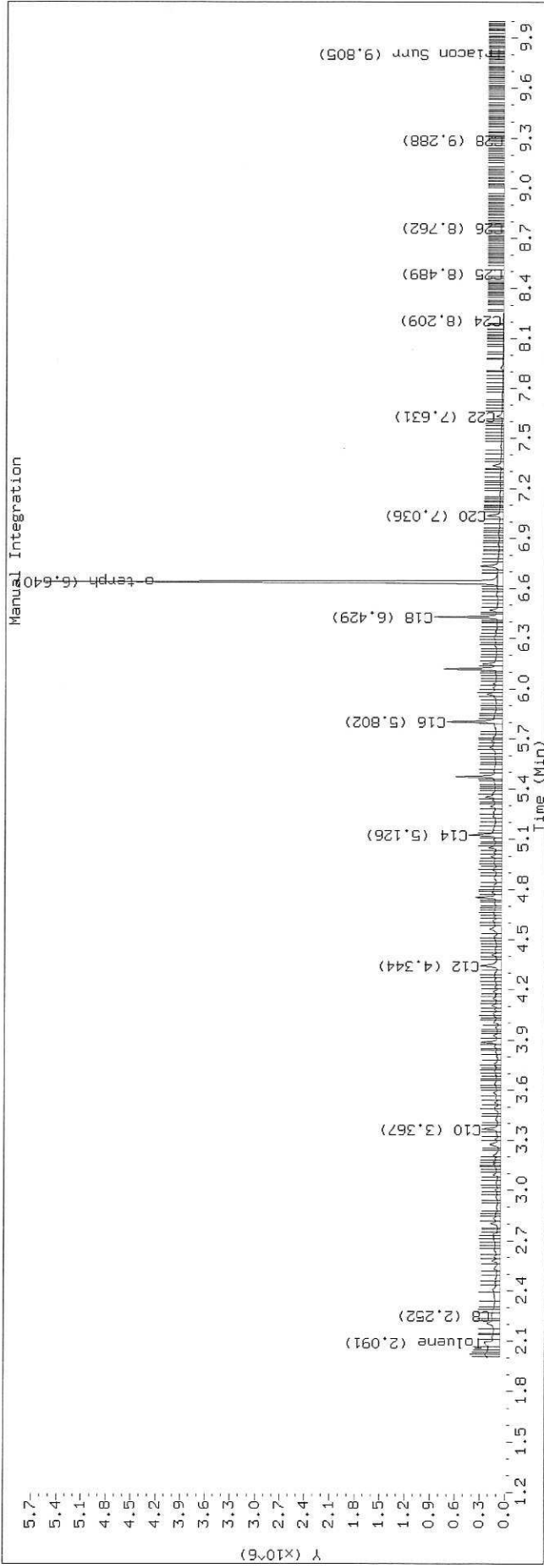
Surrogate	Area	Amount
o-Terphenyl	3642280	17.8 M
Triacontane	368	0.0

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

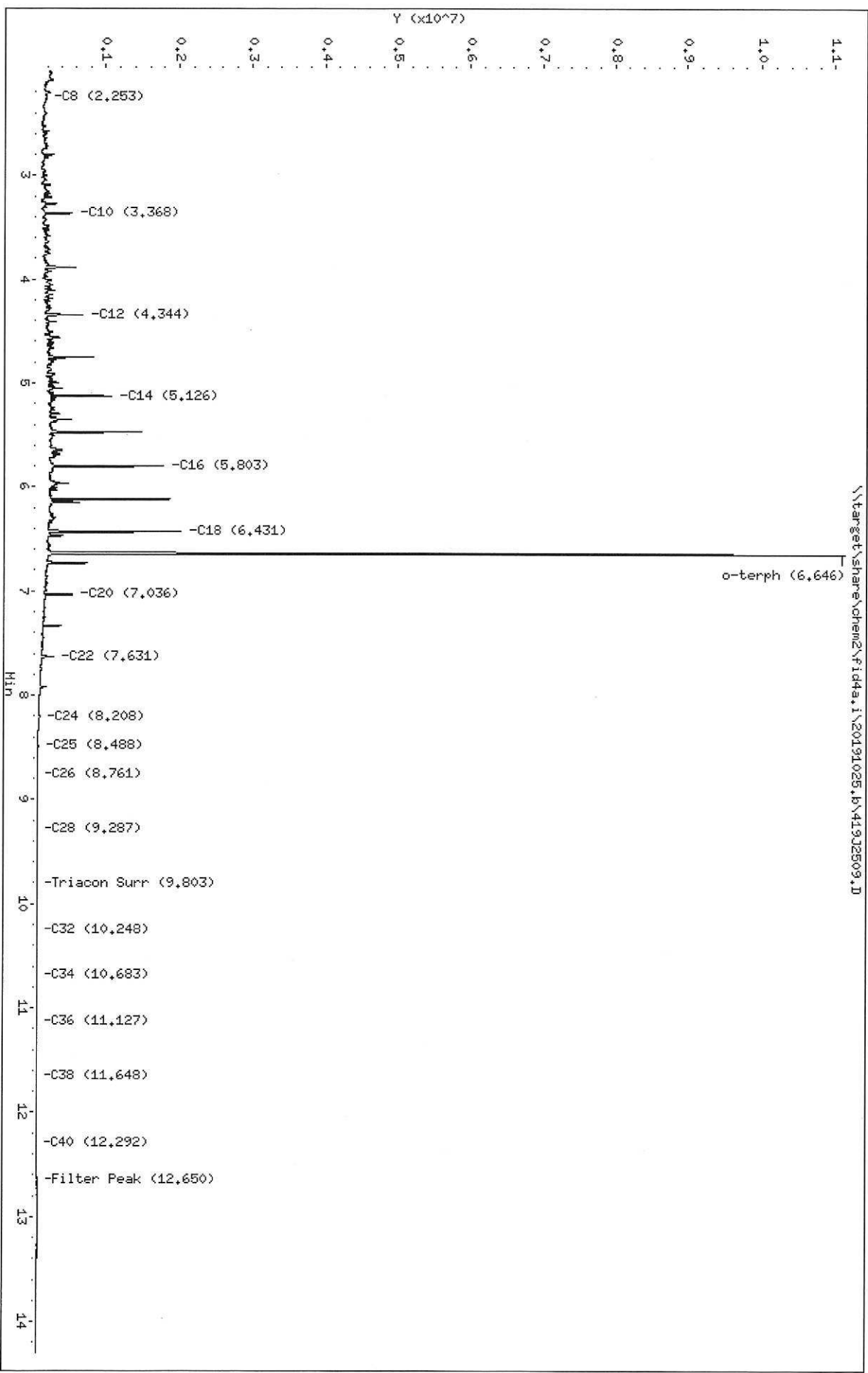




Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2509.D
Date: 25-OCT-2019 14:32
Client ID:
Sample Info: SHJ0406-CHL3

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

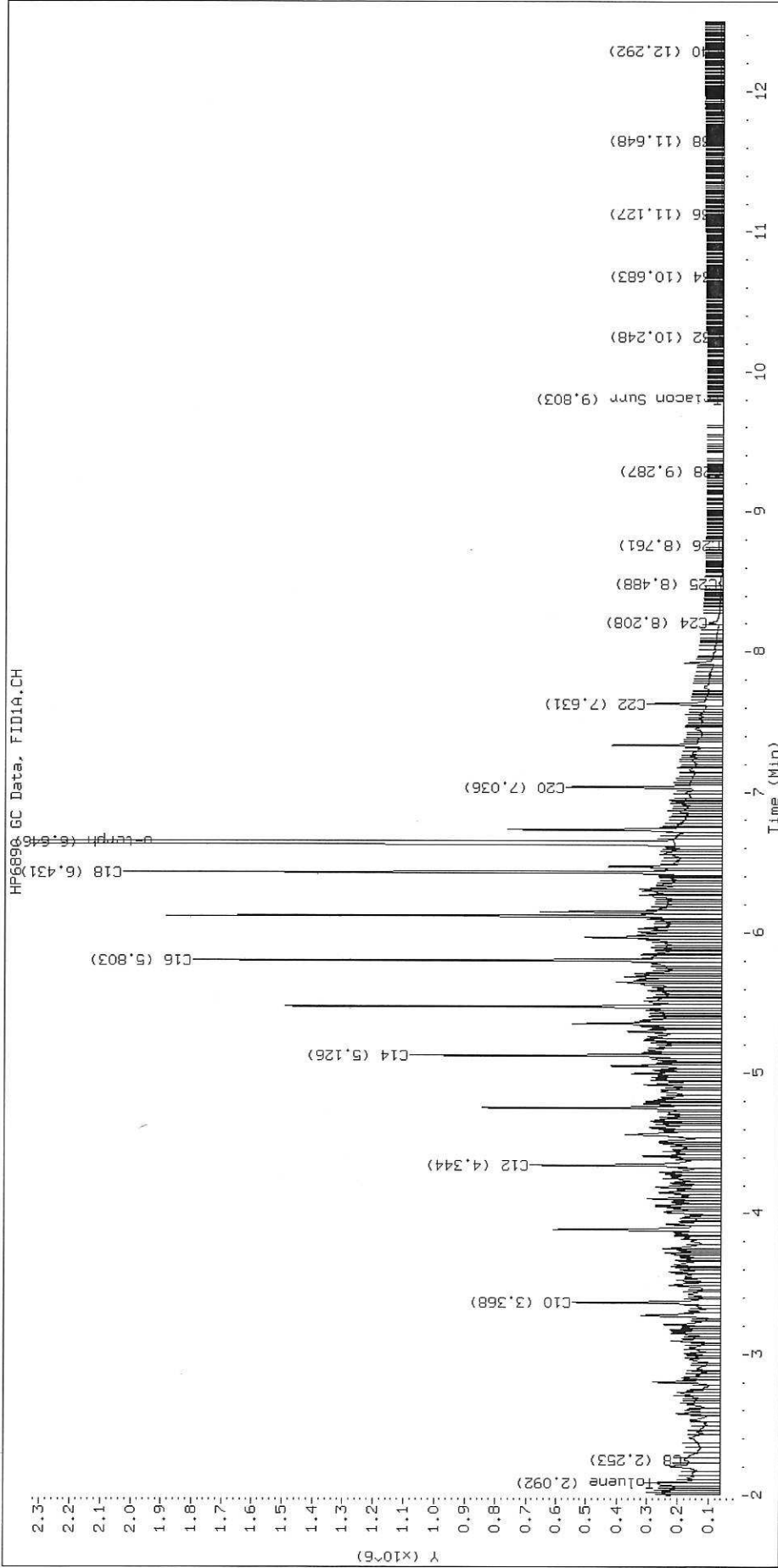
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

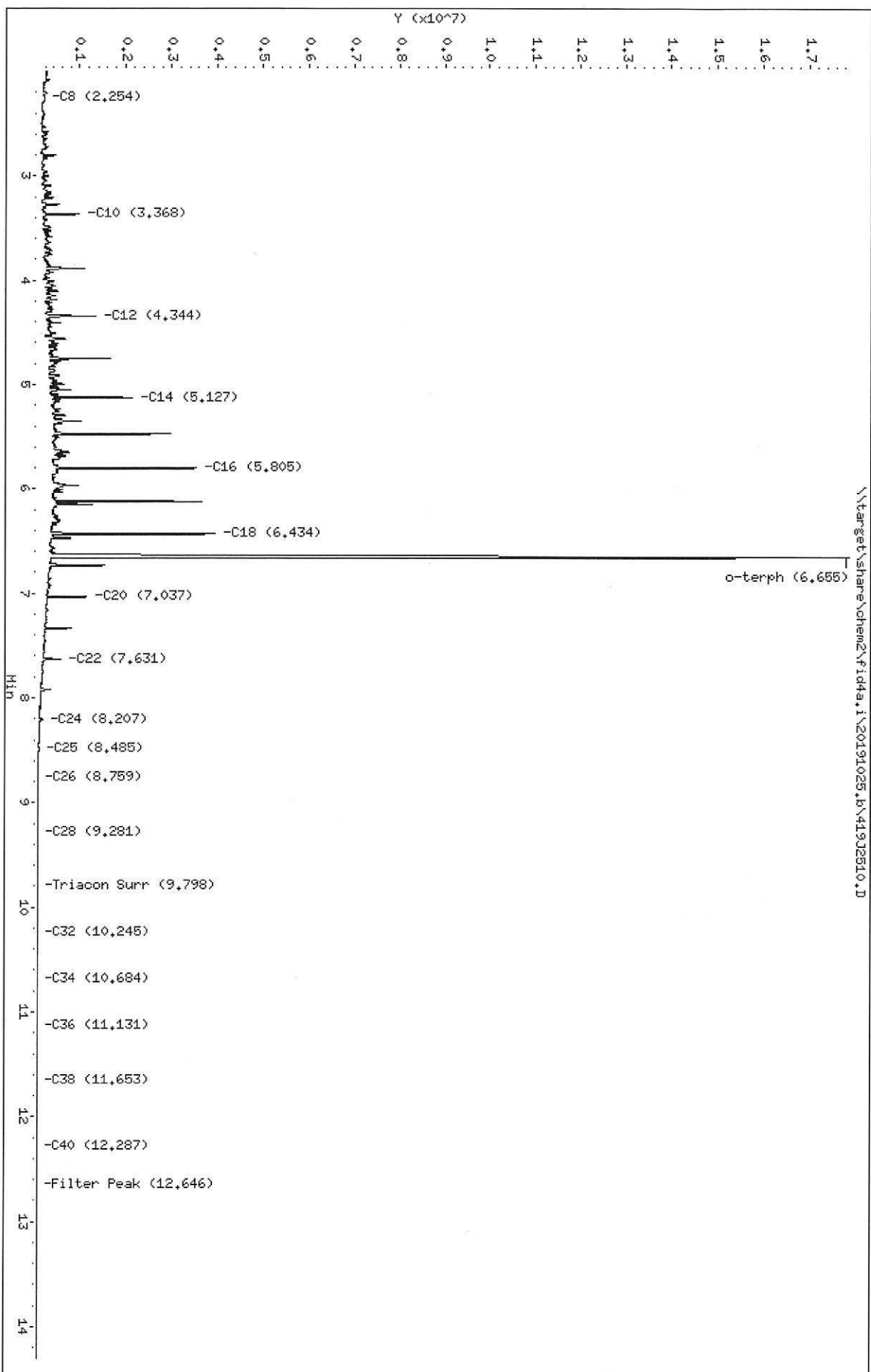
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTD/SH/WTS/JGR

Column diameter: 0.25

Page 1



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

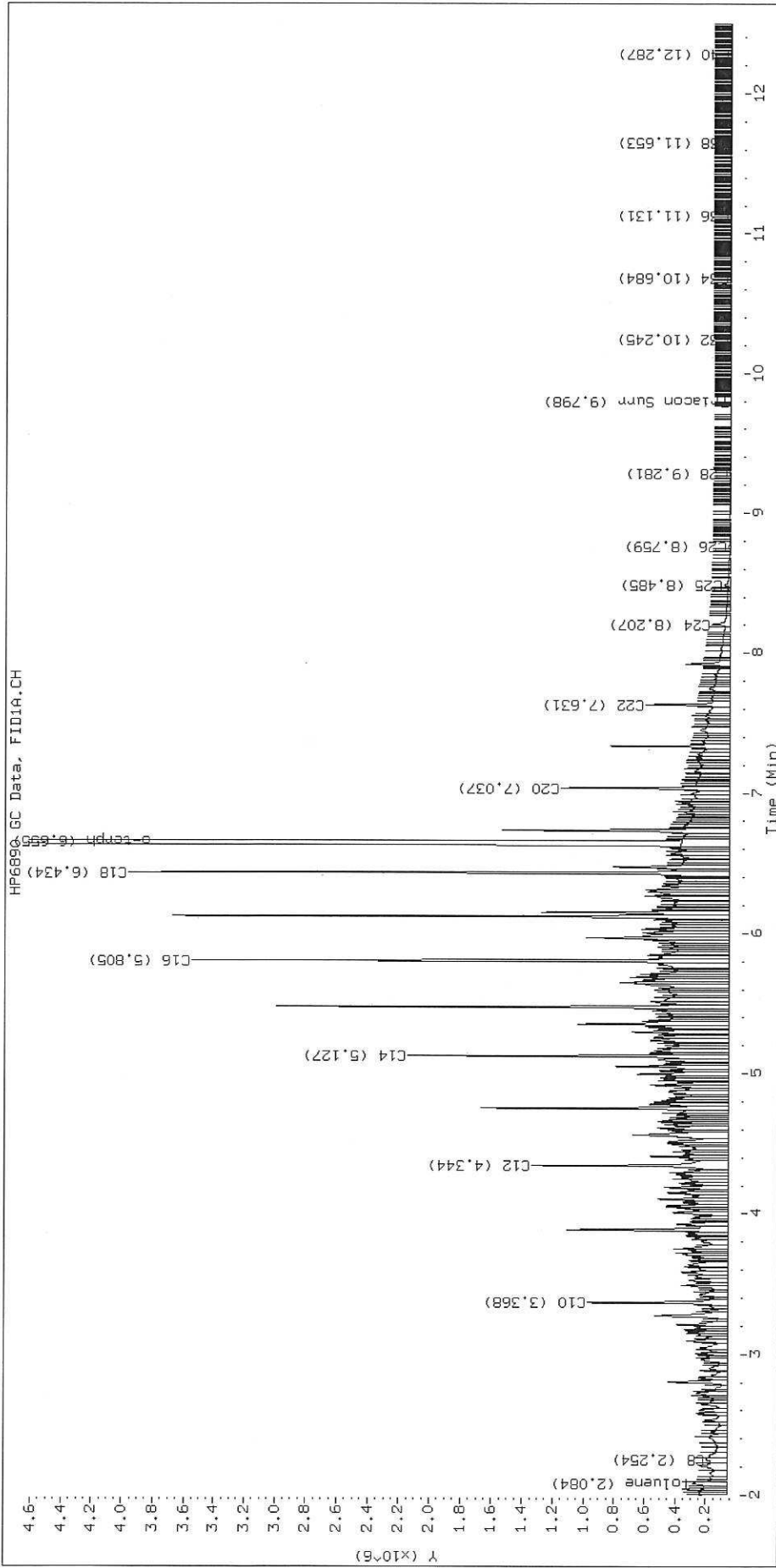
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.254	-0.009	133720	272365	WATPHD	(C12-C24)	76110005	477.7
C10	3.368	-0.005	913330	831182	WATPHM	(C24-C38)	747310	5.6
C12	4.344	-0.004	1278885	1502773	AK102	(C10-C25)	90903979	465.0
C14	5.127	-0.003	2082835	1580085	AK103	(C25-C36)	436439	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

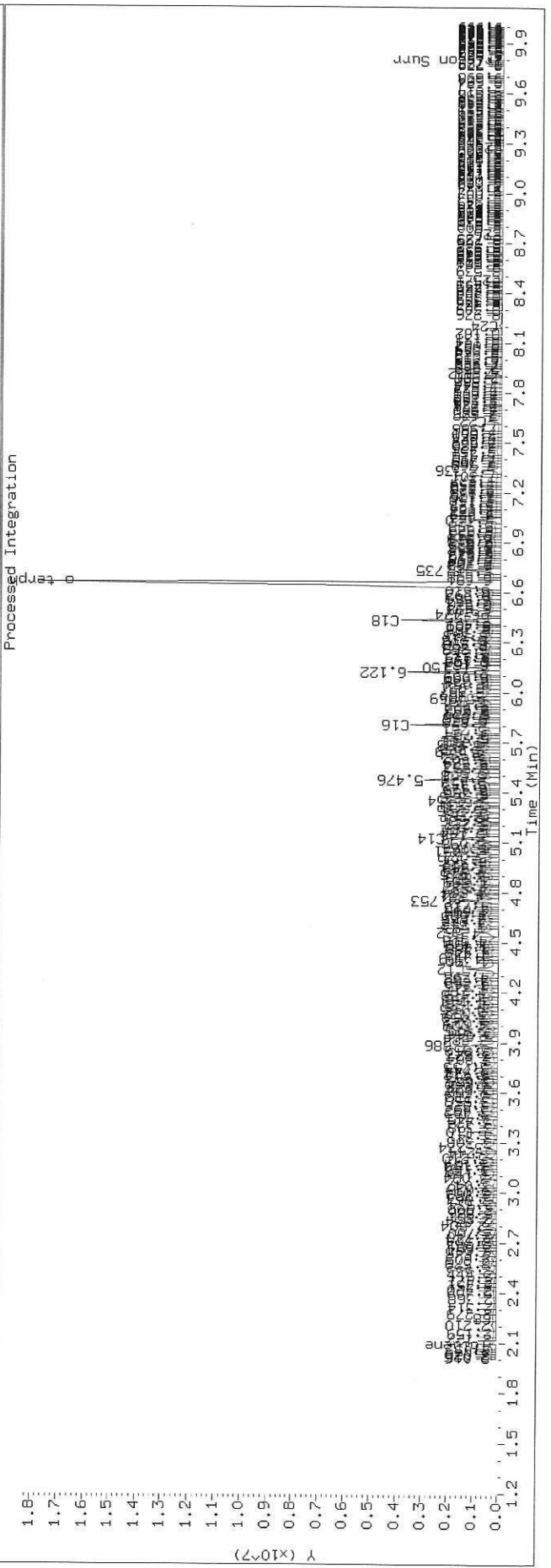
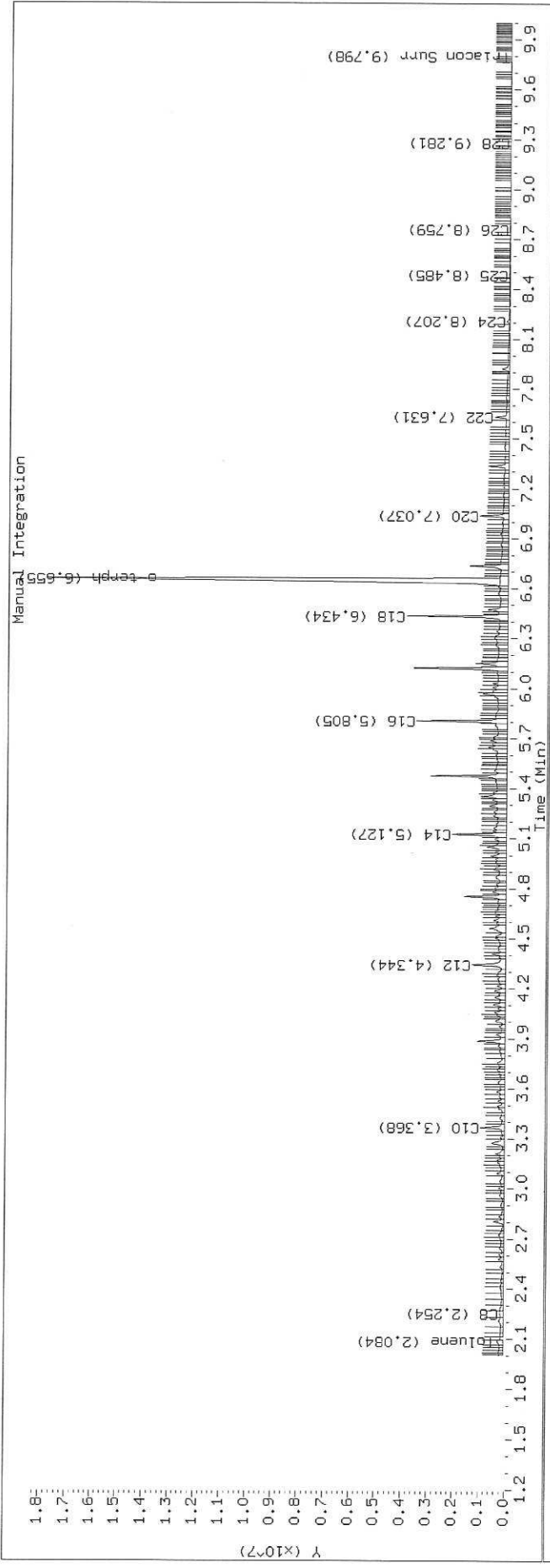
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

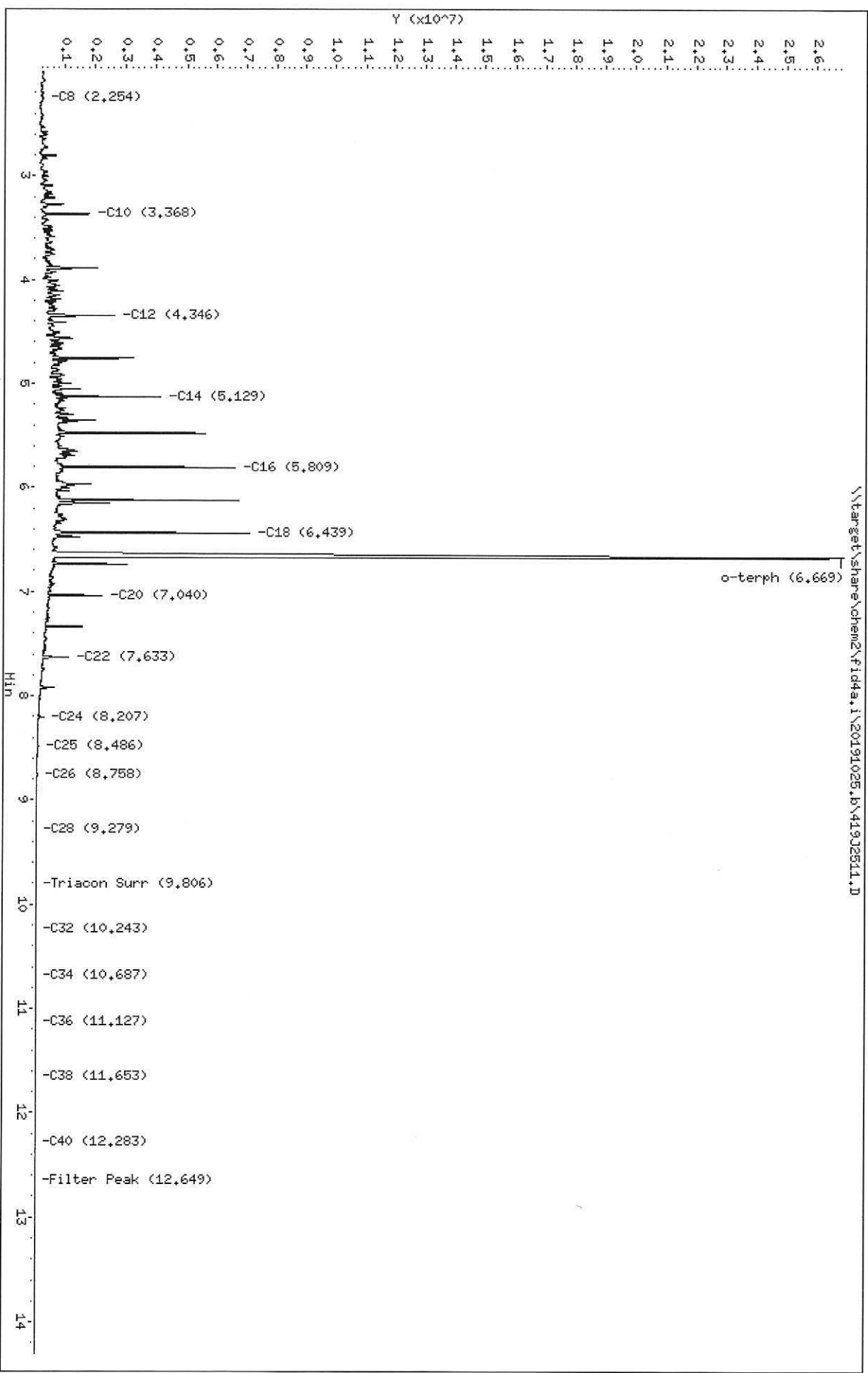




Data File: \\target\share\chem2\fid4a.i\20191025.b\41932511.D
Date: 25-OCT-2019 15:13
Client ID:
Sample Info: SHJ0406-CALS

Column phase: RTX-1

Instrument: fid4a.i
Operator: CTO/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

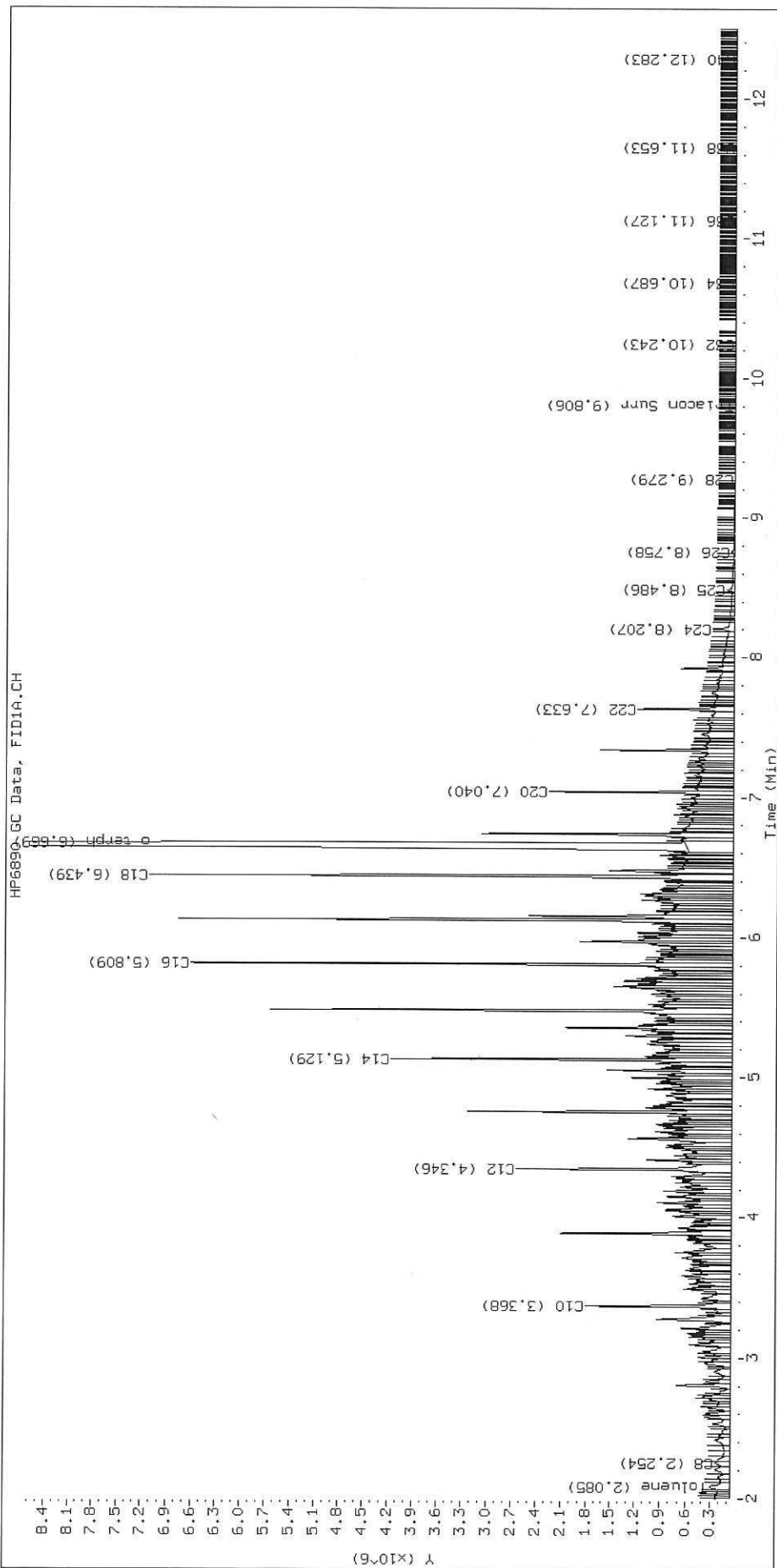
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

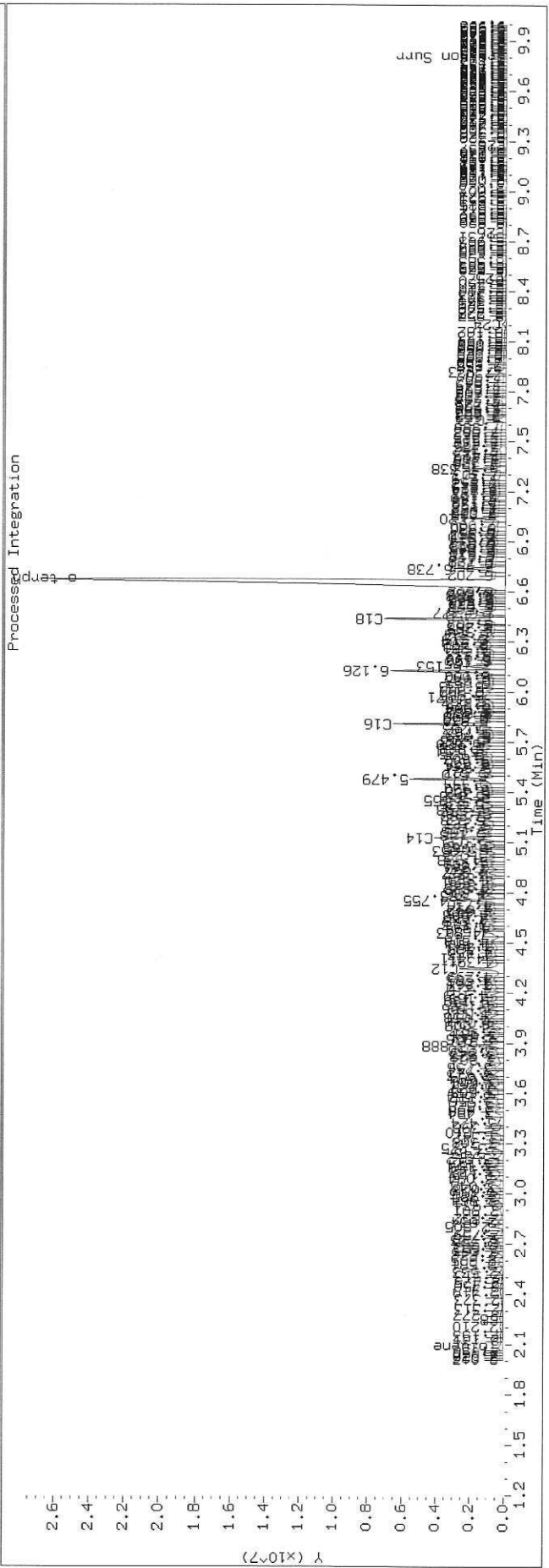
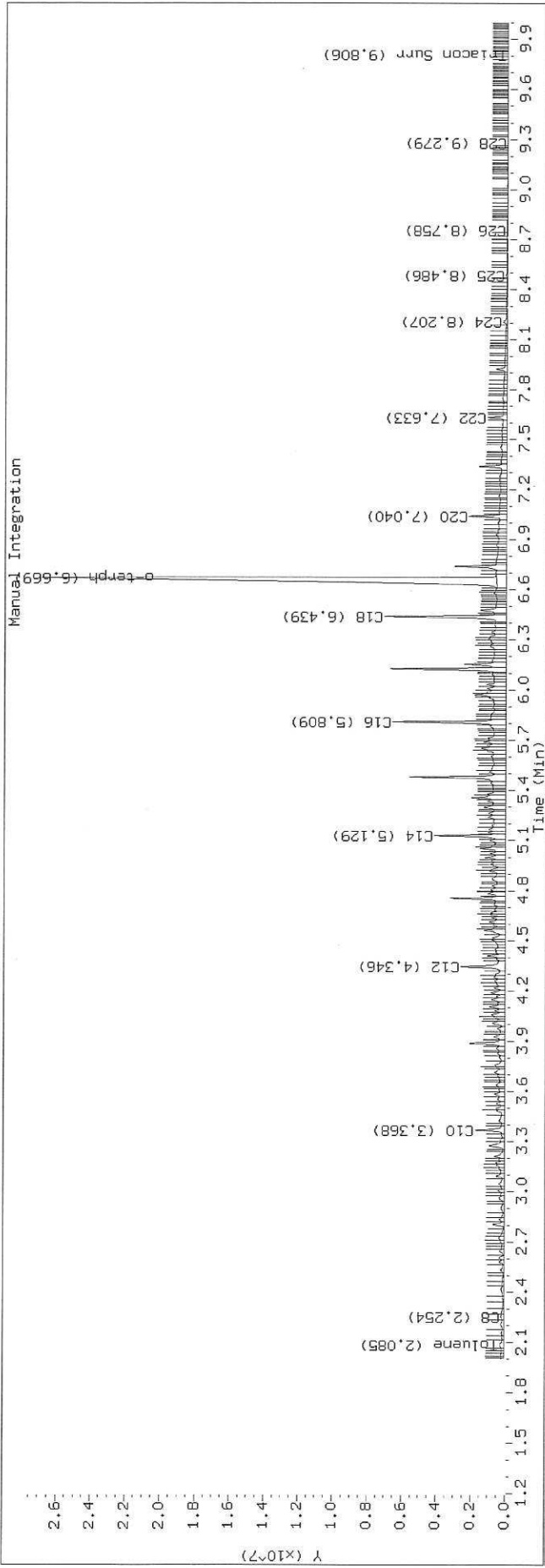
Surrogate	Area	Amount
o-Terphenyl	37244787	181.9 M
Triacontane	1069	0.0

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





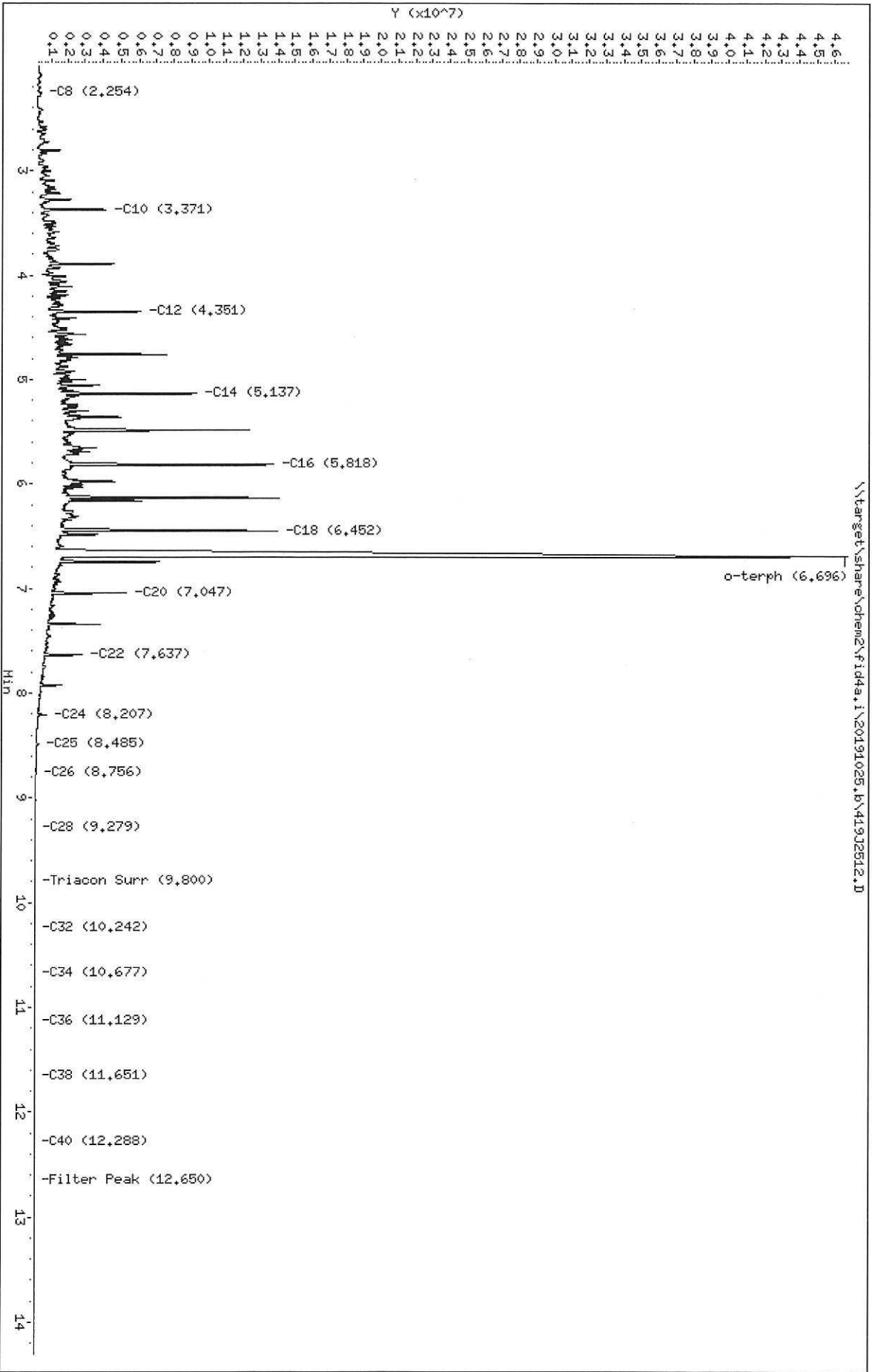
Data File: \\target\share\chem2\Fid4a.I\20191025.b\419J2512.D
Date: 26-OCT-2019 15:32

Client ID:
Sample Info: SHJ0406-CAL6

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
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

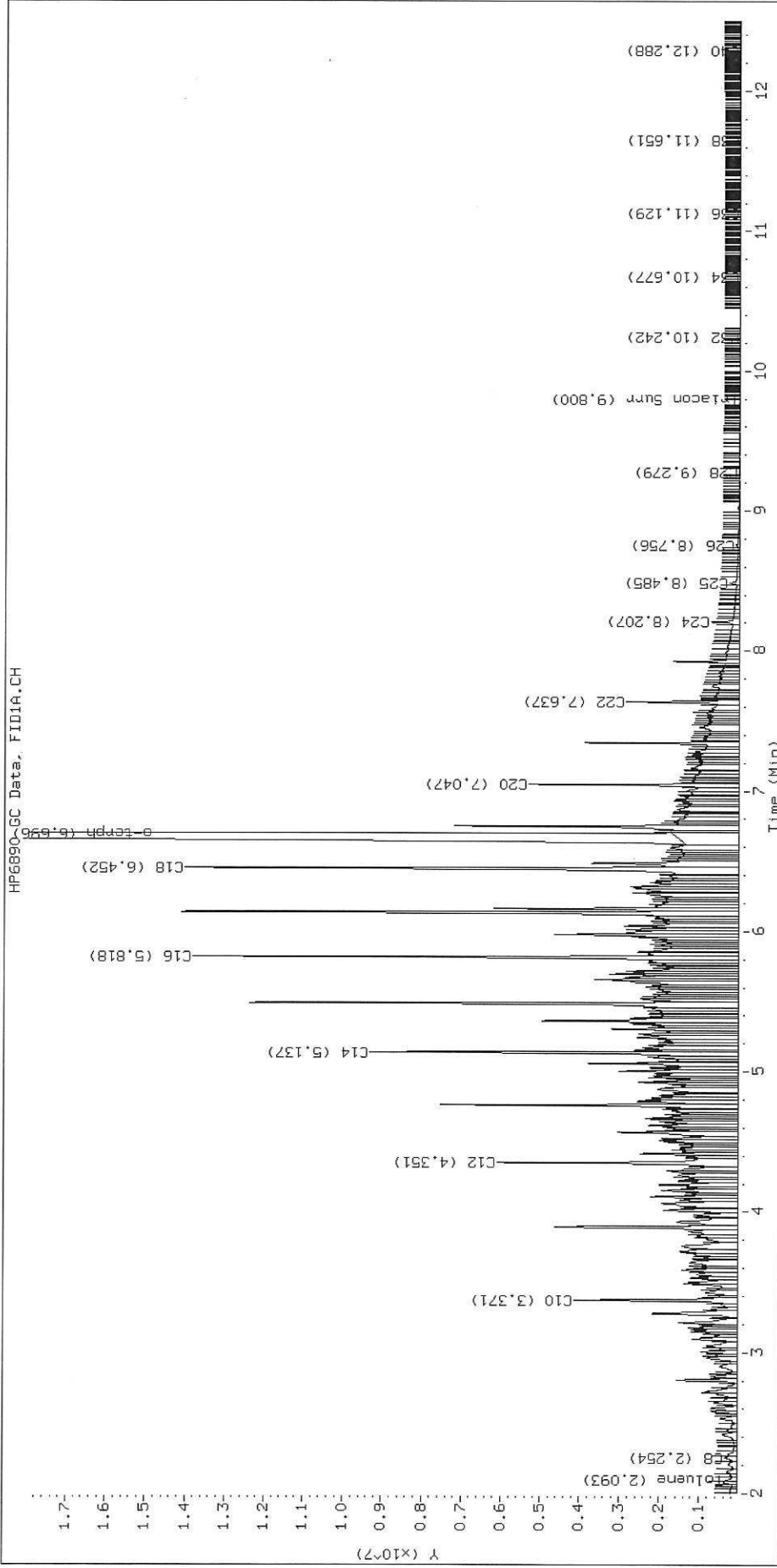
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

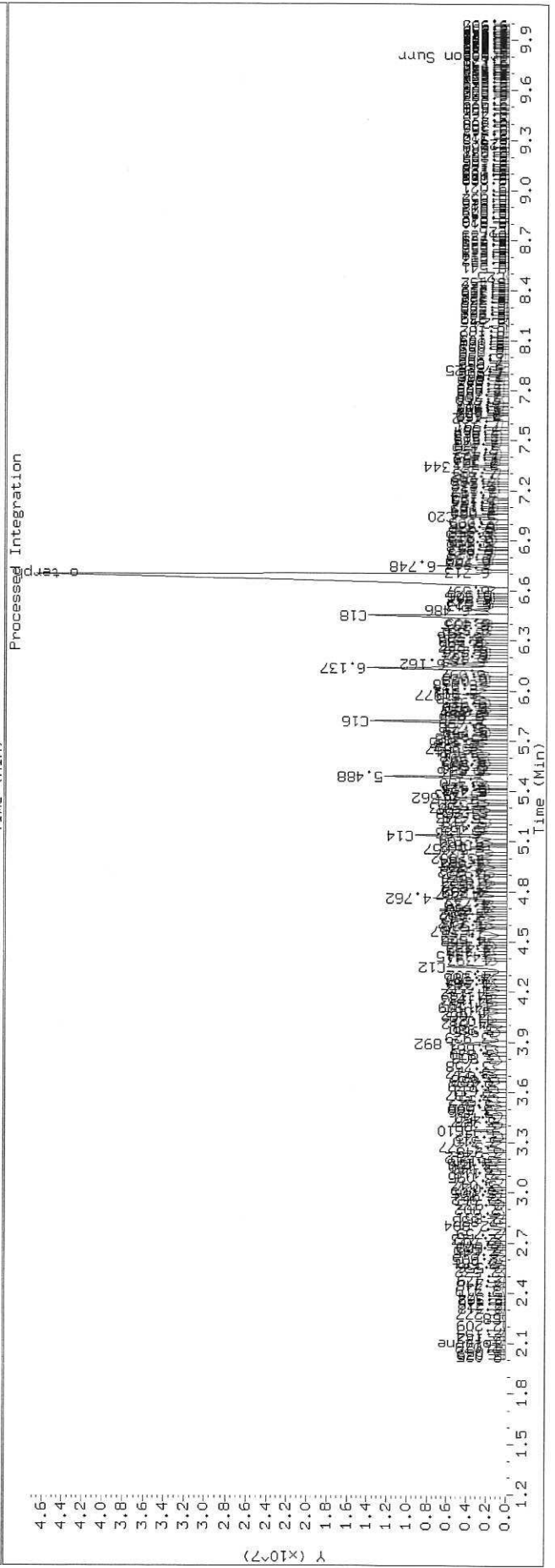
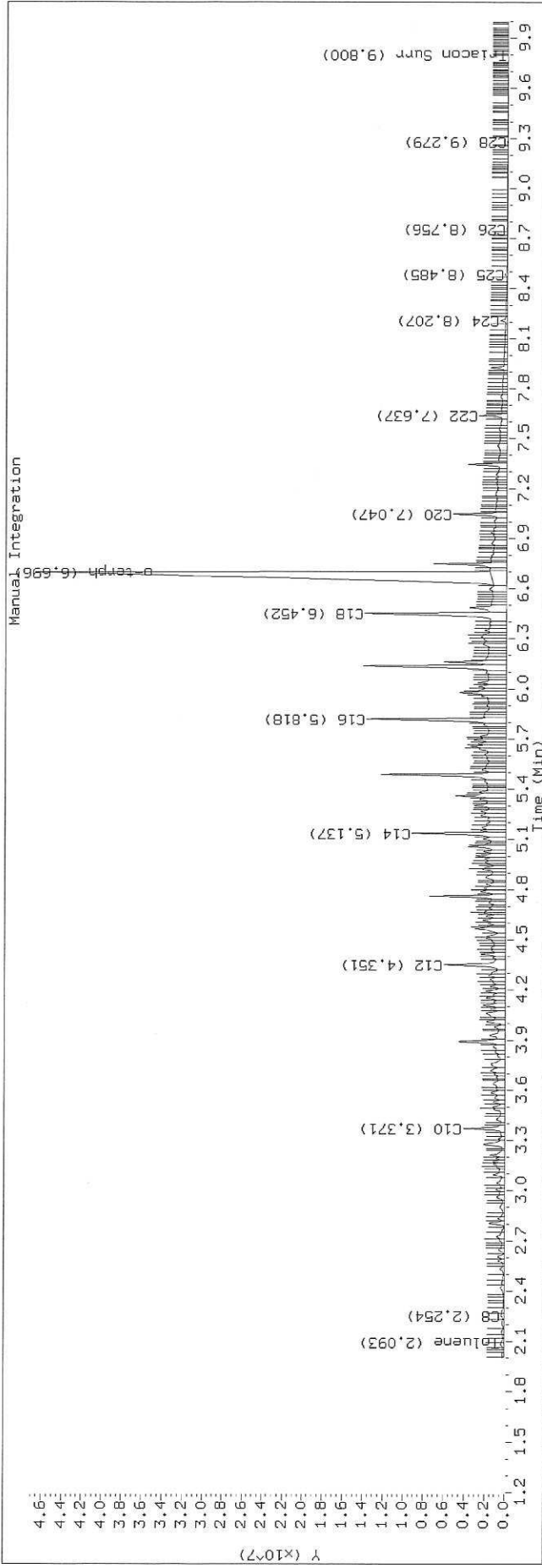
Surrogate	Area	Amount
o-Terphenyl	94404433	461.2 M
Triacontane	892	0.0

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

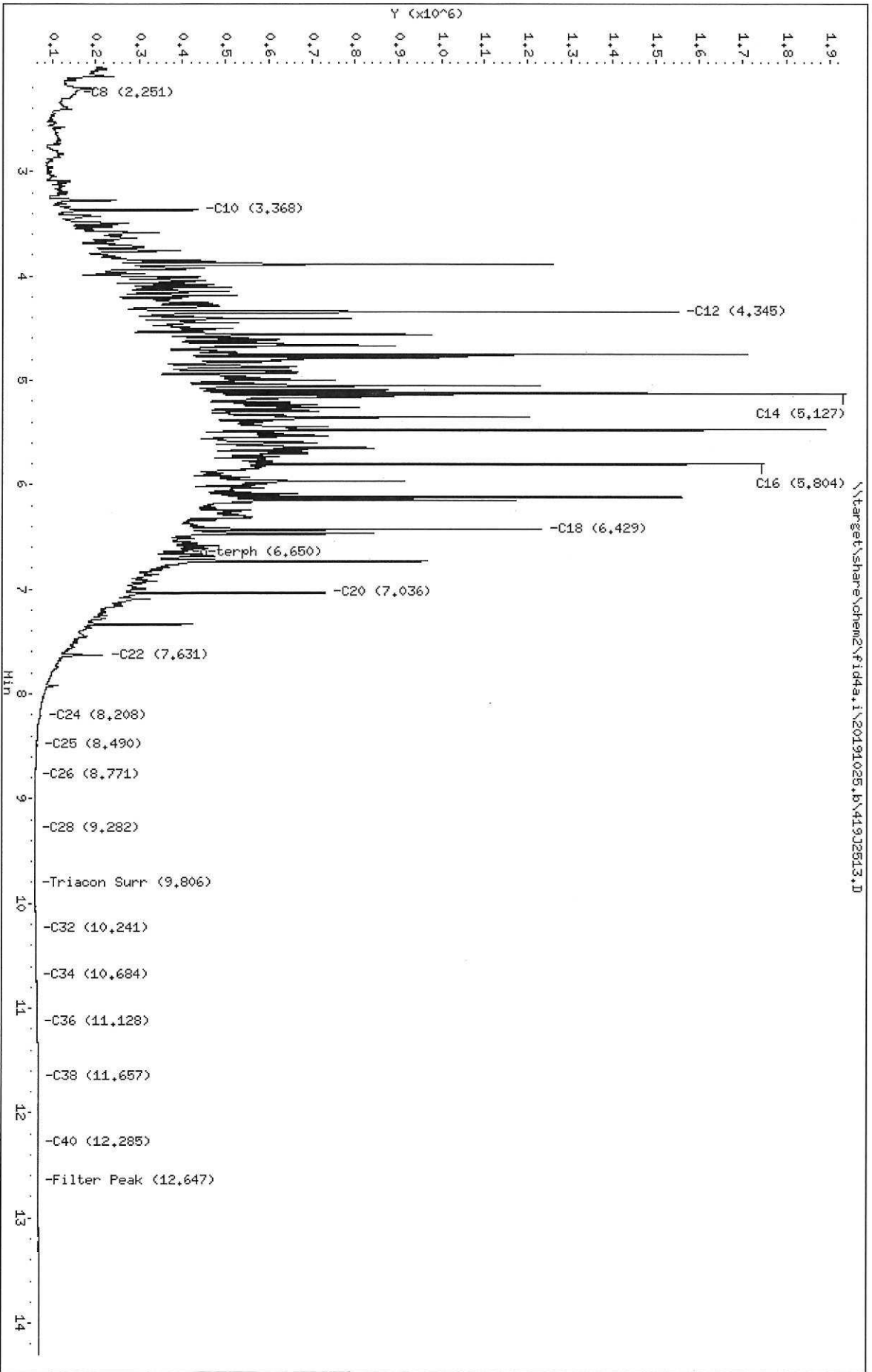
Datafile: FID4A, 20191025.b/419J2512.D SHJ0406-CAL6





Data File: \\target\share\chem2\fid4a.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)

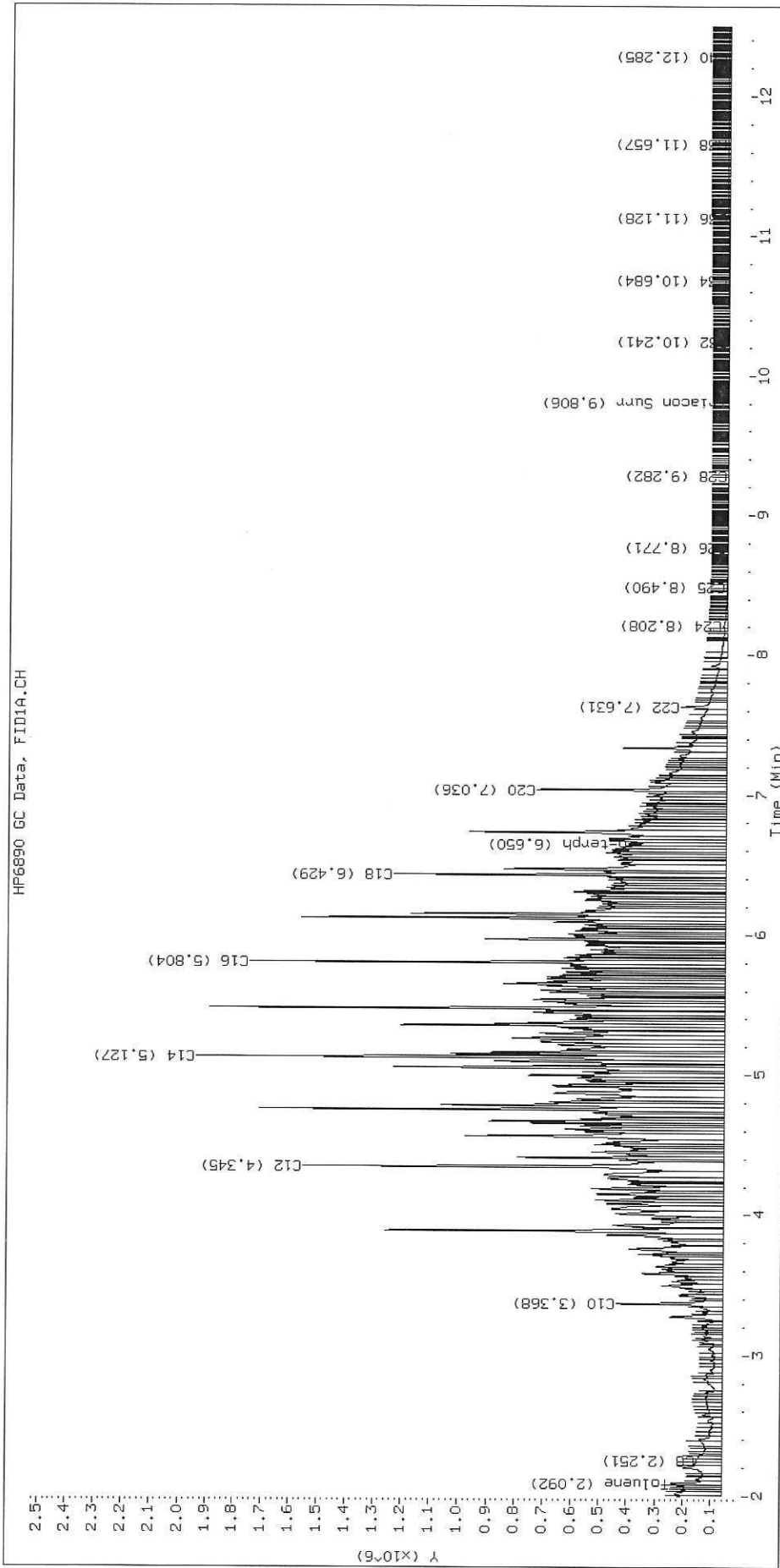
Surrogate	Area	Amount
o-Terphenyl	350999	1.7
Triacotane	388	0.0

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

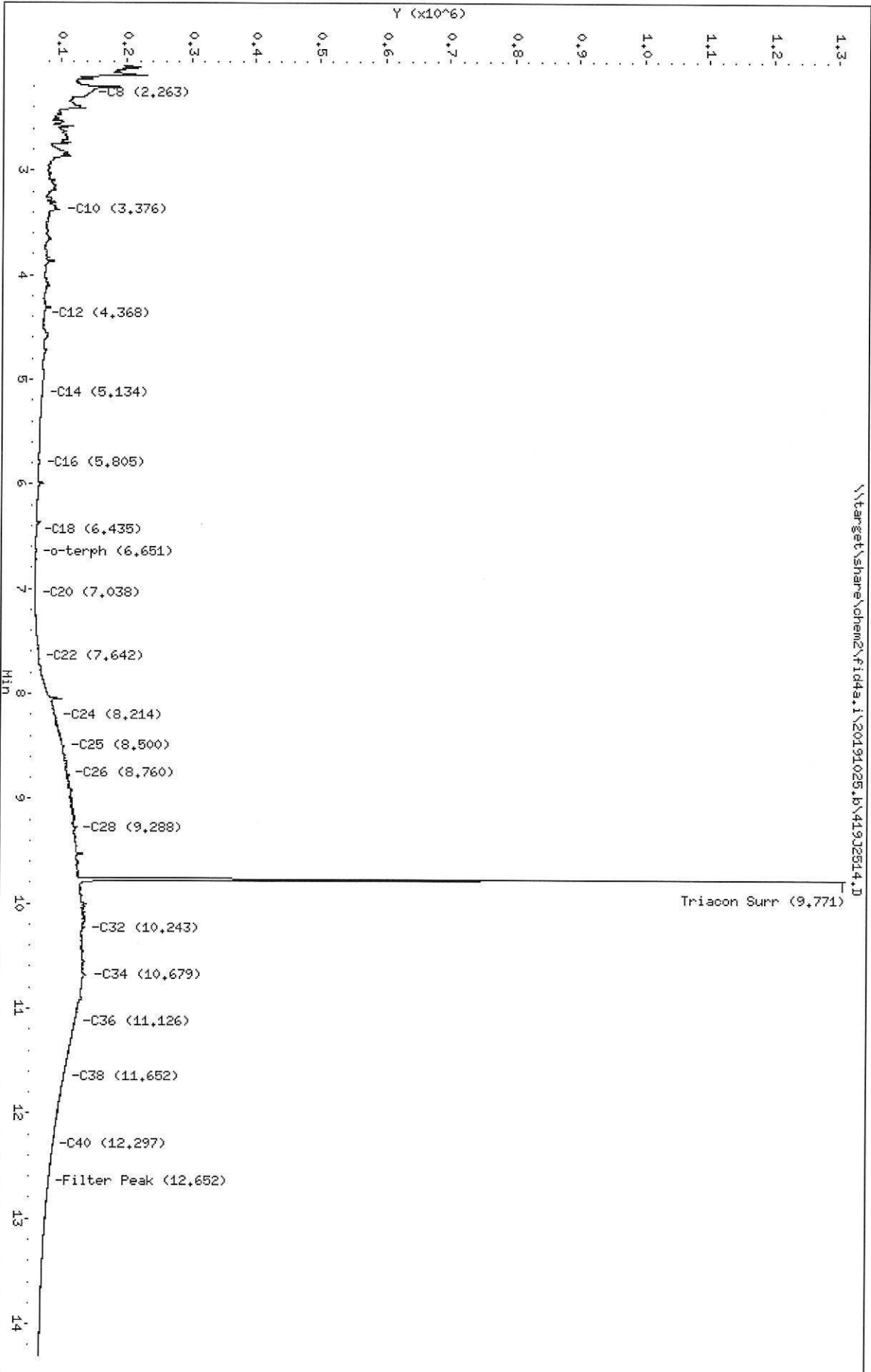
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

Page 1



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)

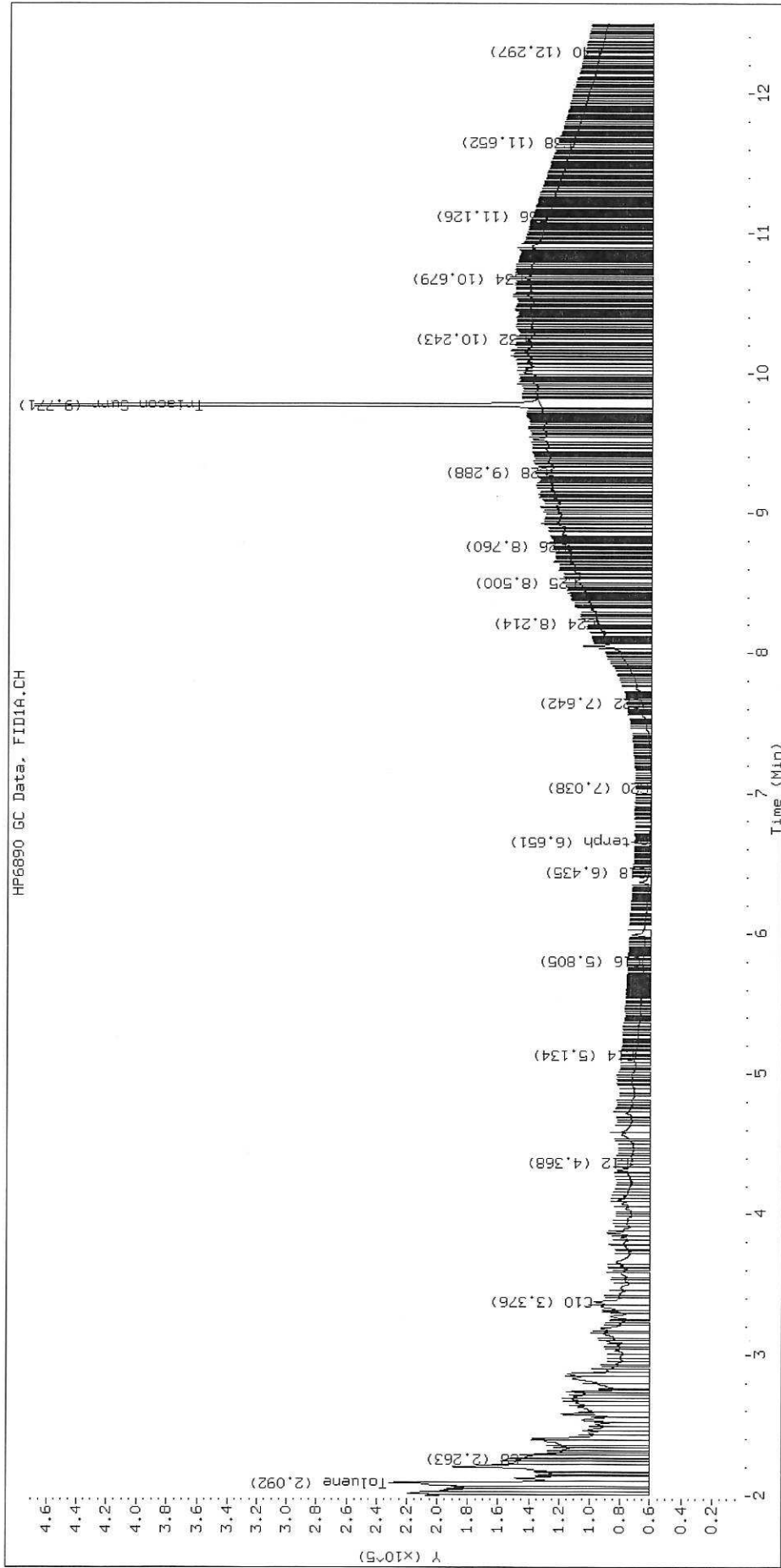
Surrogate	Area	Amount
o-Terphenyl	547	0.0
Triacontane	816812	4.6 M

M Indicates the peak was manually integrated

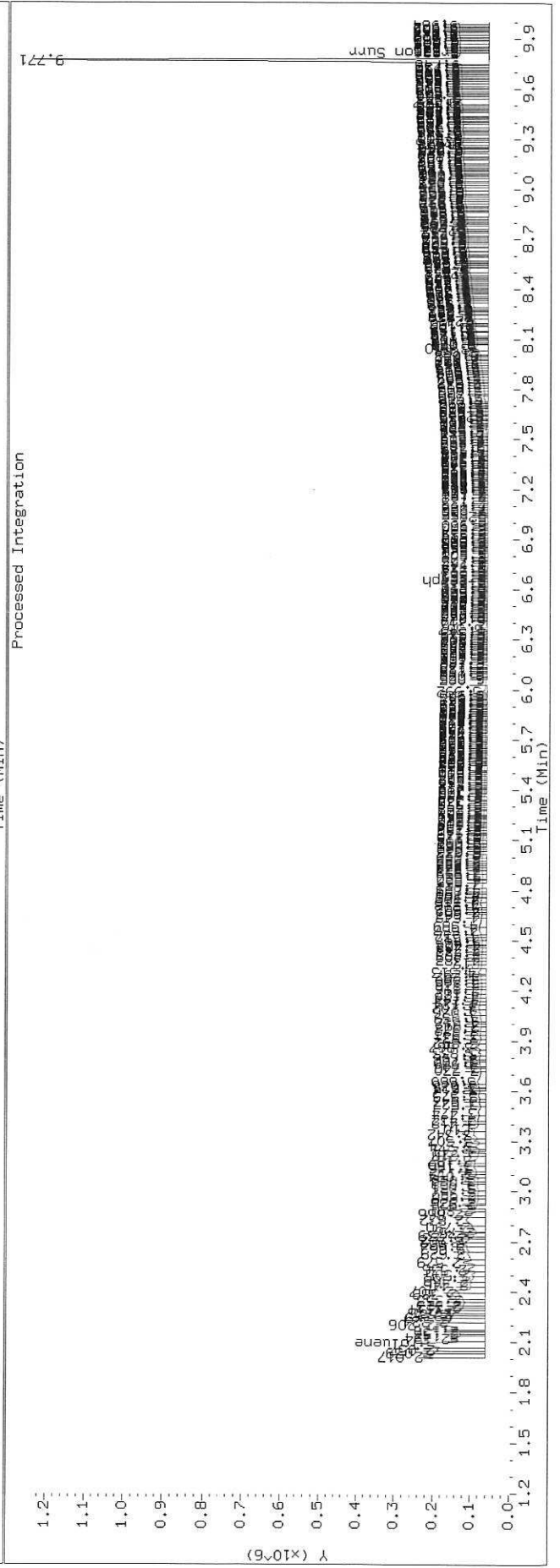
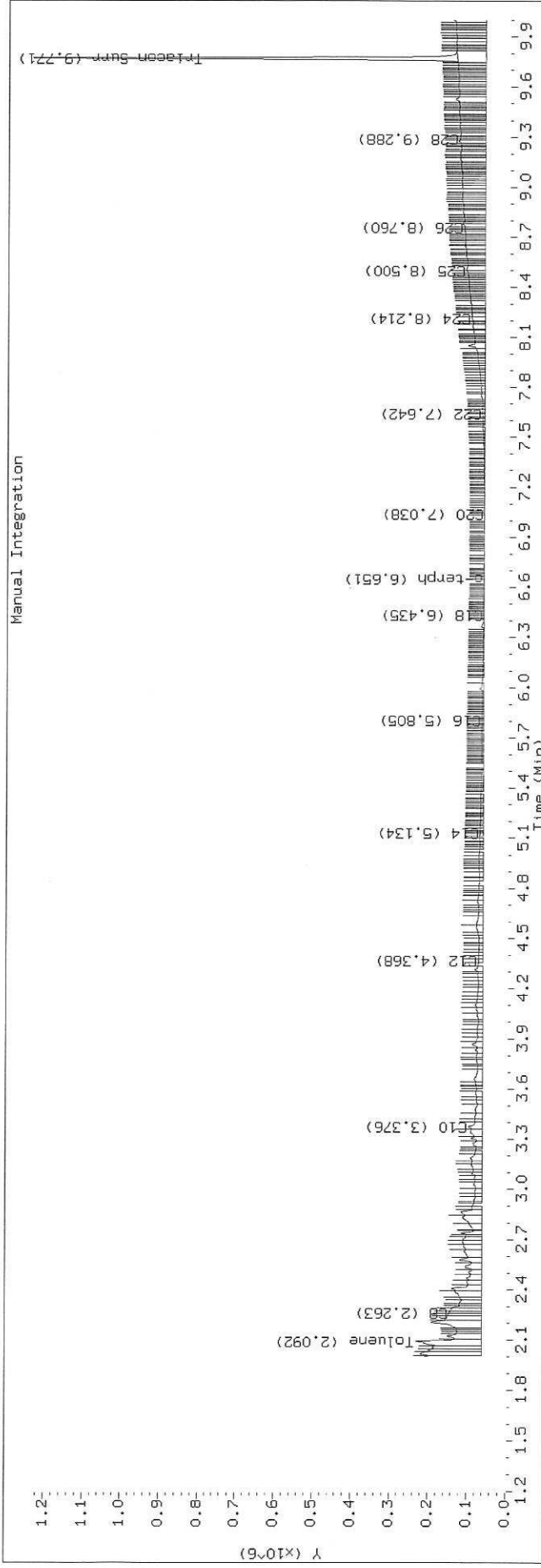
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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



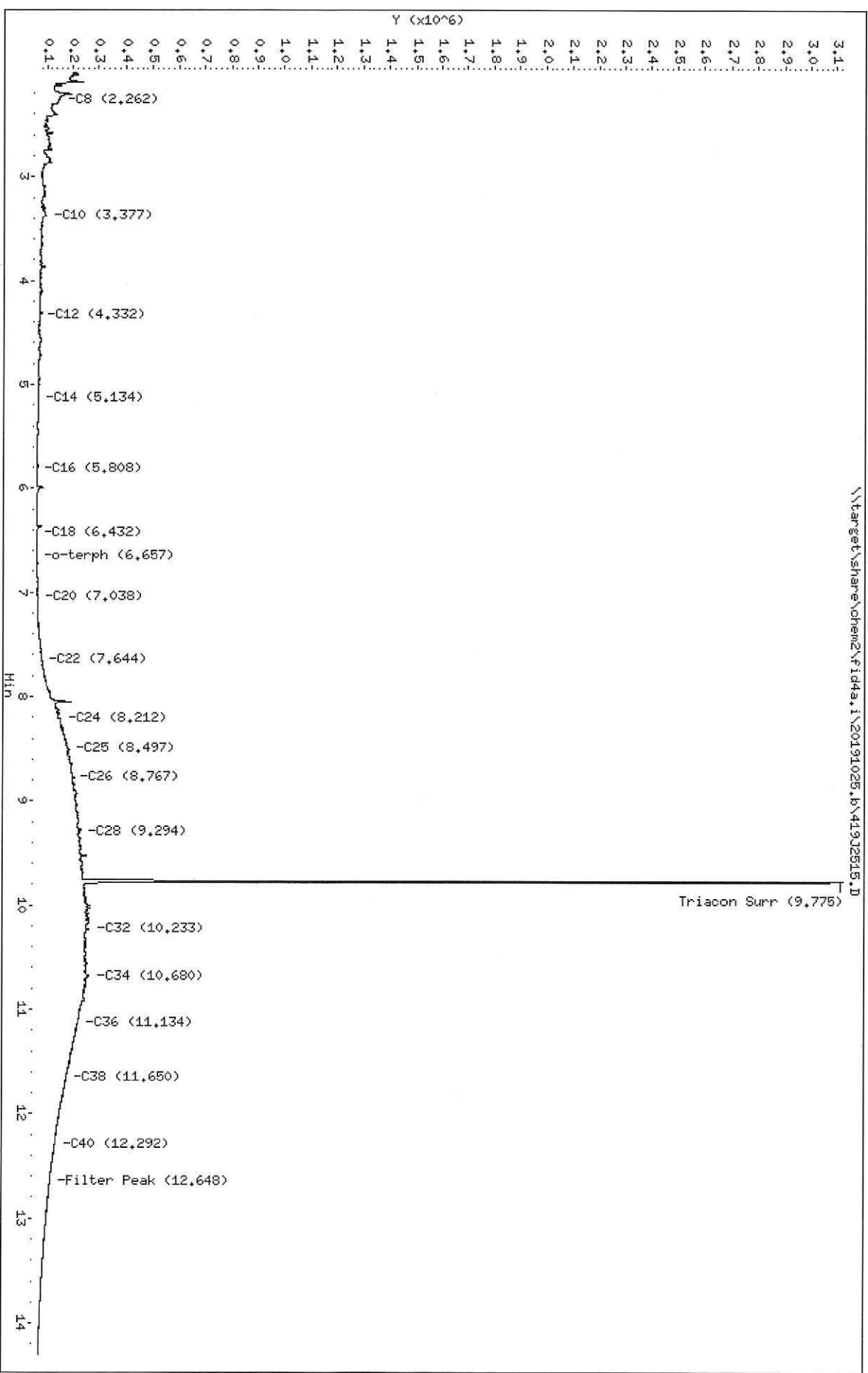
Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2515.D
Date: 25-OCT-2019 16:33
Client ID:
Sample Info: SHJ0406-CAL8

Instrument: fid4a.i

Column phase: RTX-1

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

\\target\share\chem2\fid4a.i\20191025.b\419J2515.D



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)

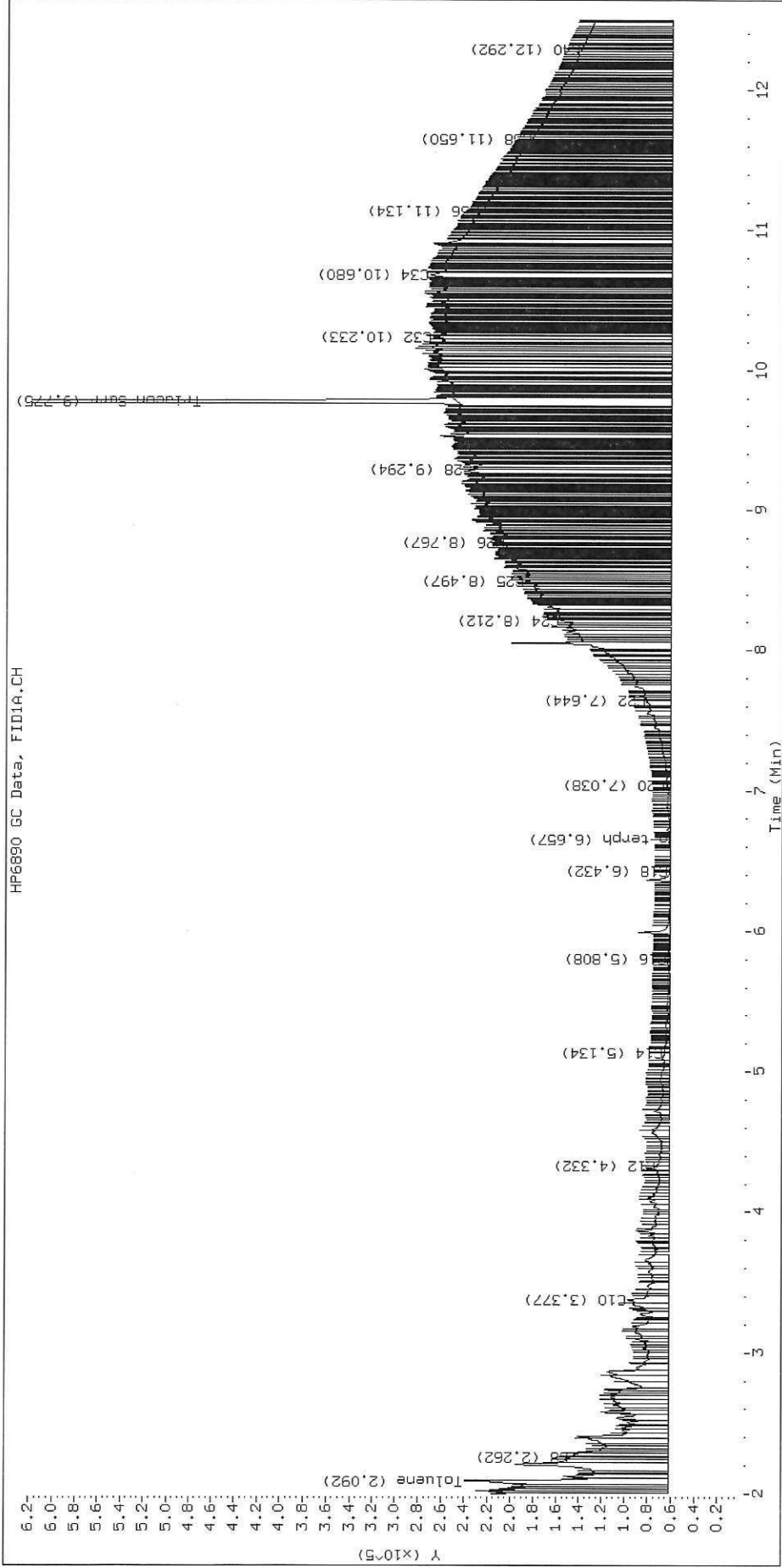
Surrogate	Area	Amount
o-Terphenyl	796	0.0
Triacotane	2052387	11.5 M

M Indicates the peak was manually integrated

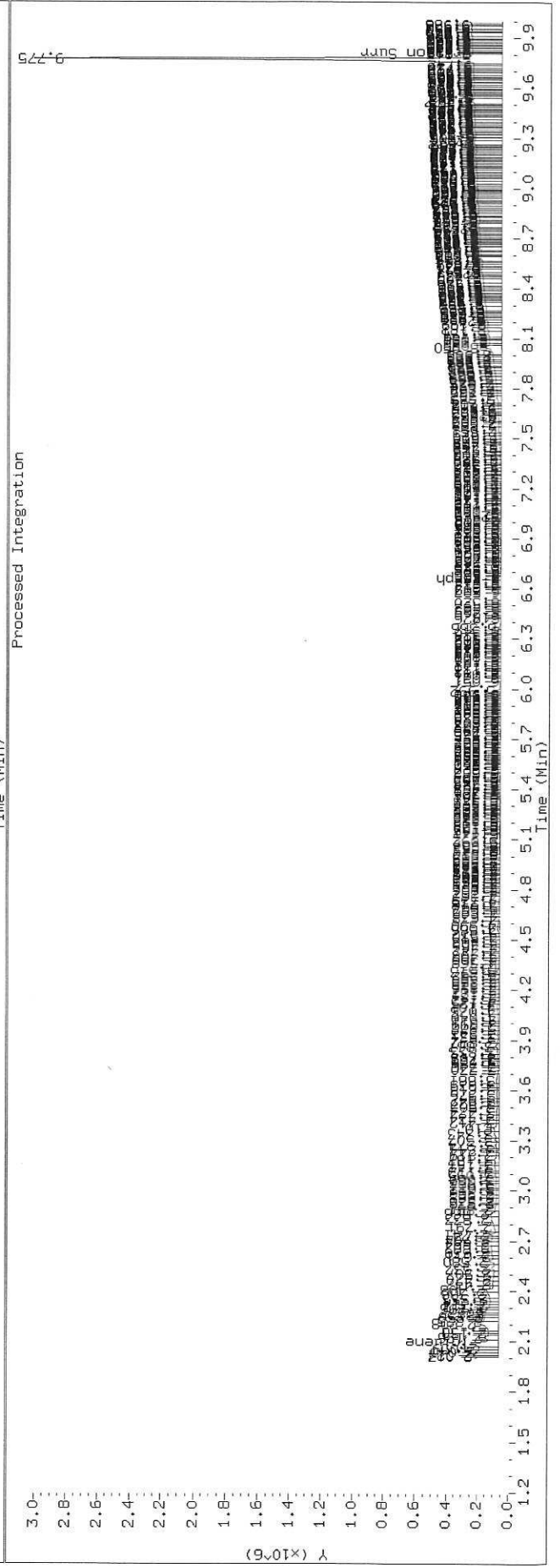
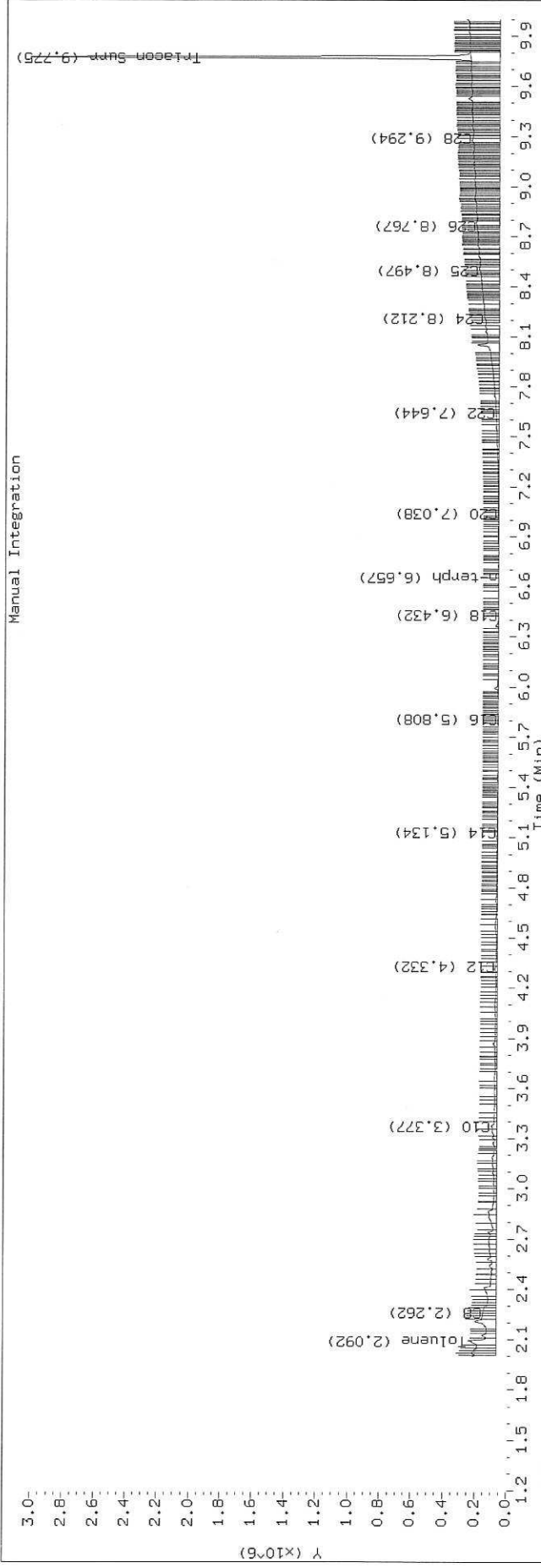
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH



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

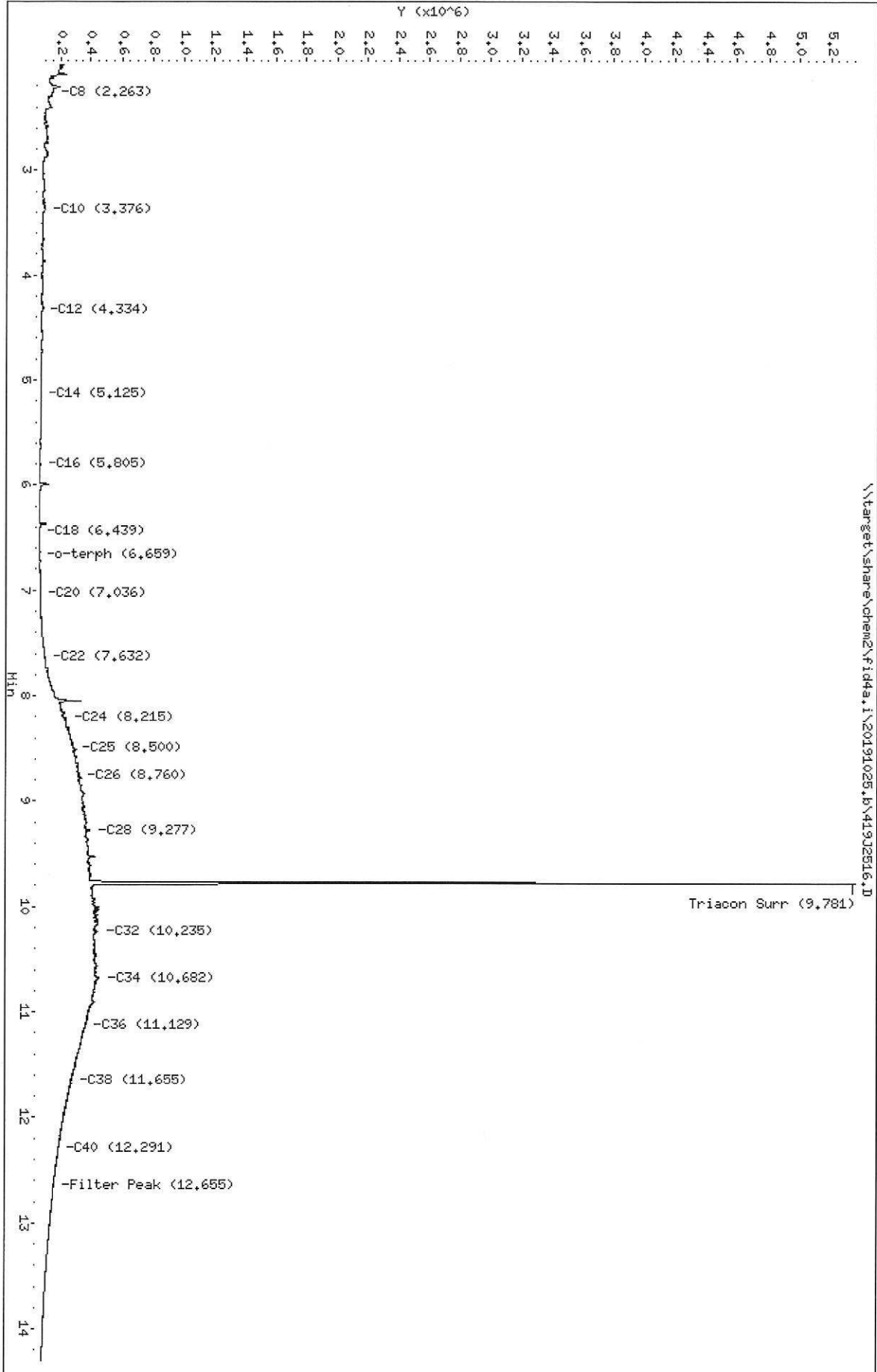
Column phase: RTX-1

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)

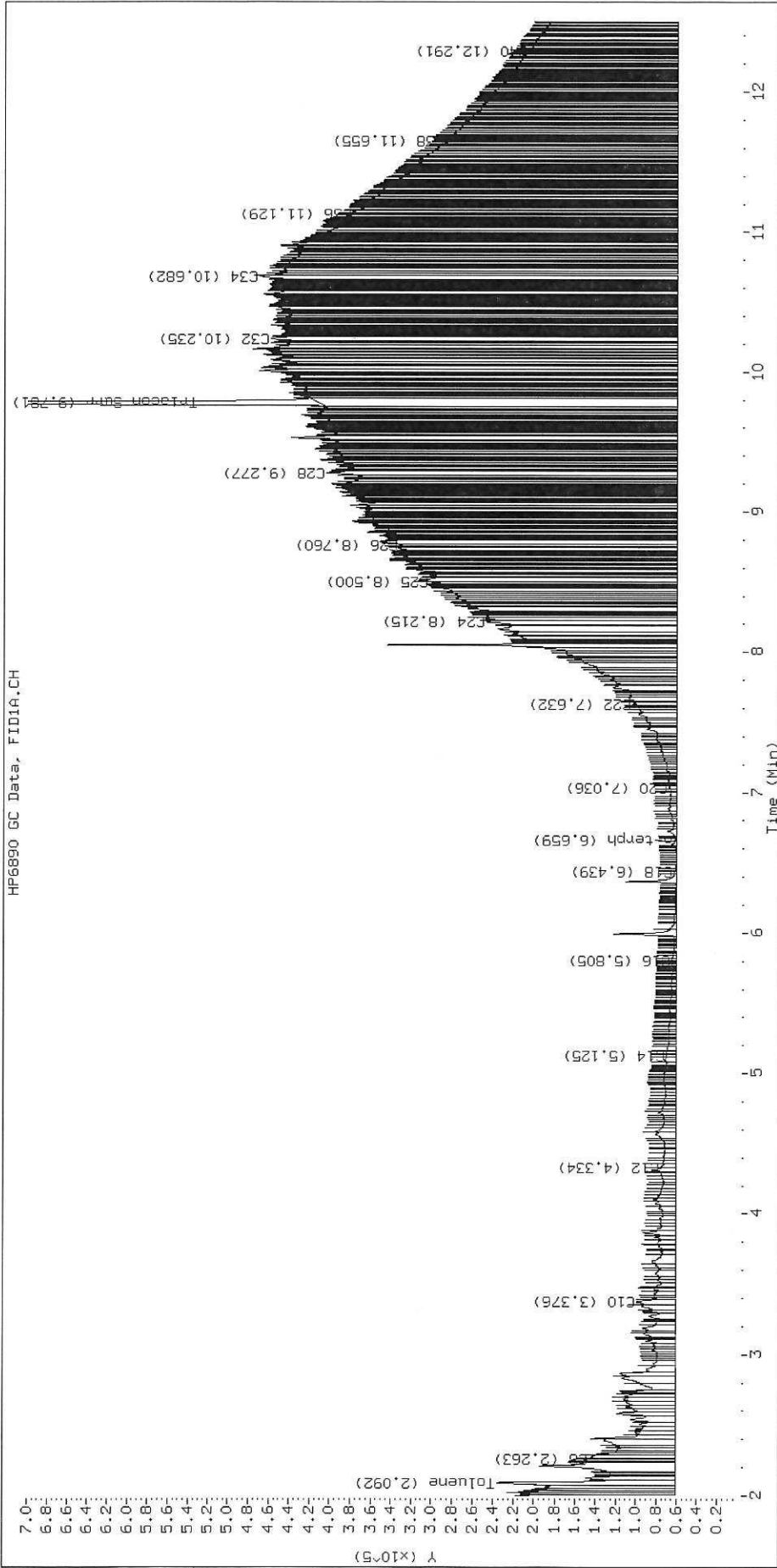
Surrogate	Area	Amount
o-Terphenyl	1646	0.0
Triacontane	3881047	21.8 M

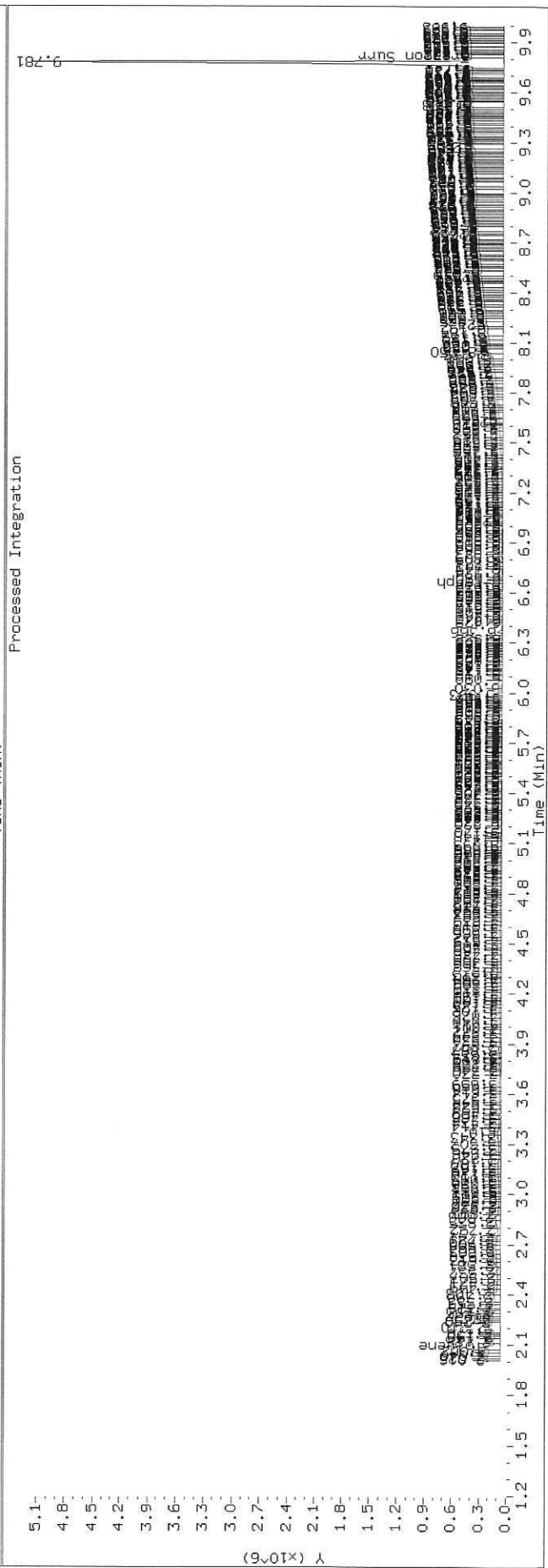
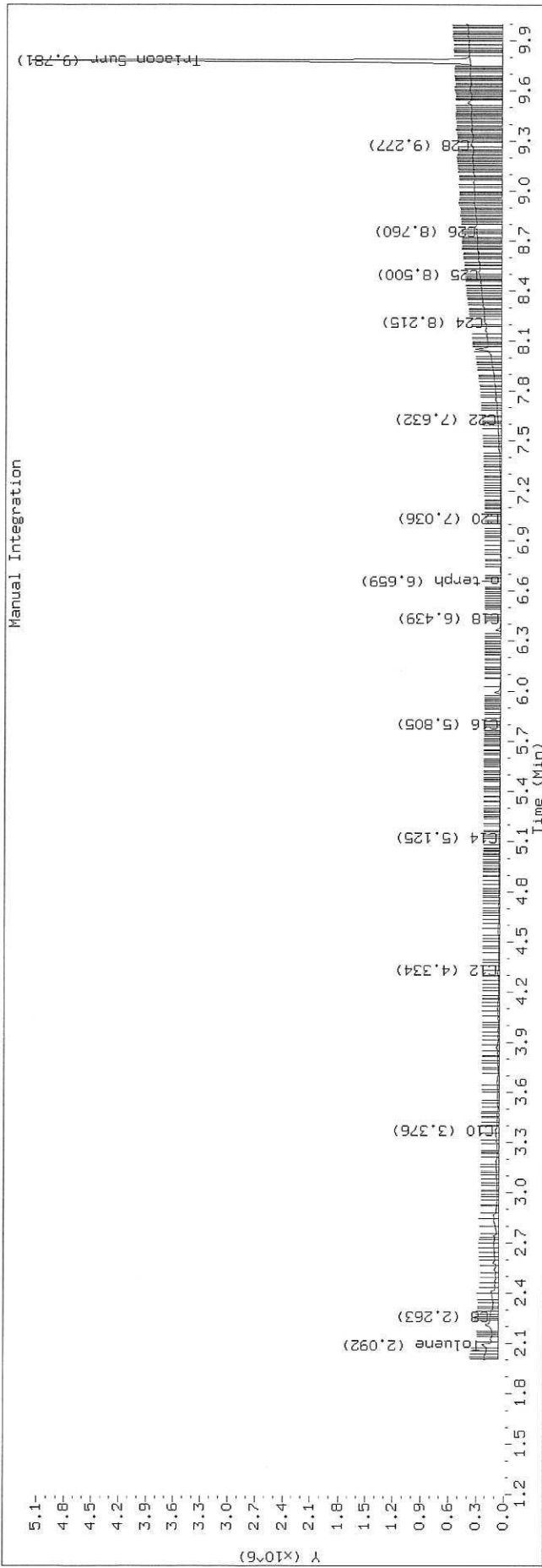
M Indicates the peak was manually integrated

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

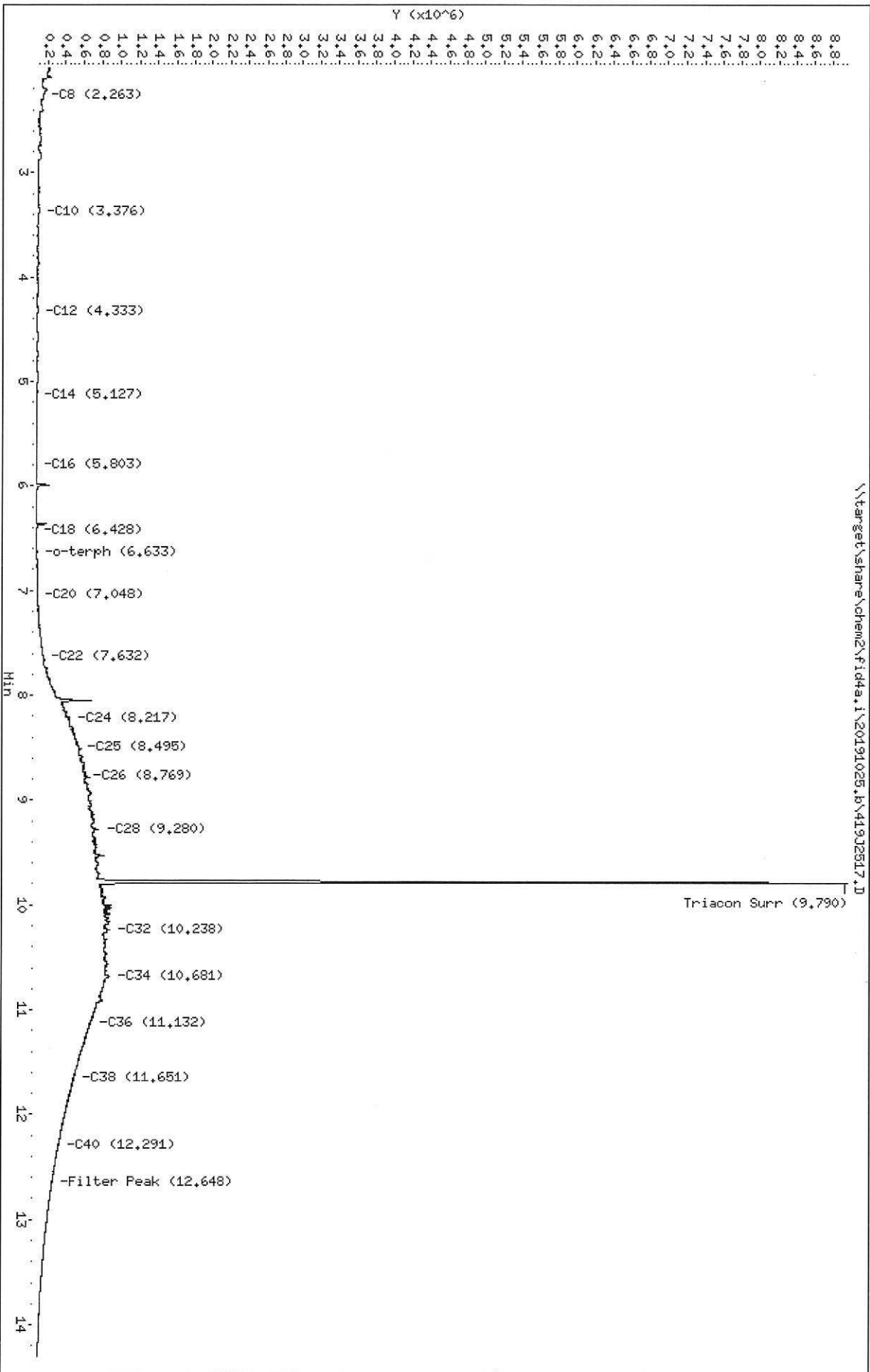
Column phase: RTX-1

Instrument: fid4a.i

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

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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)

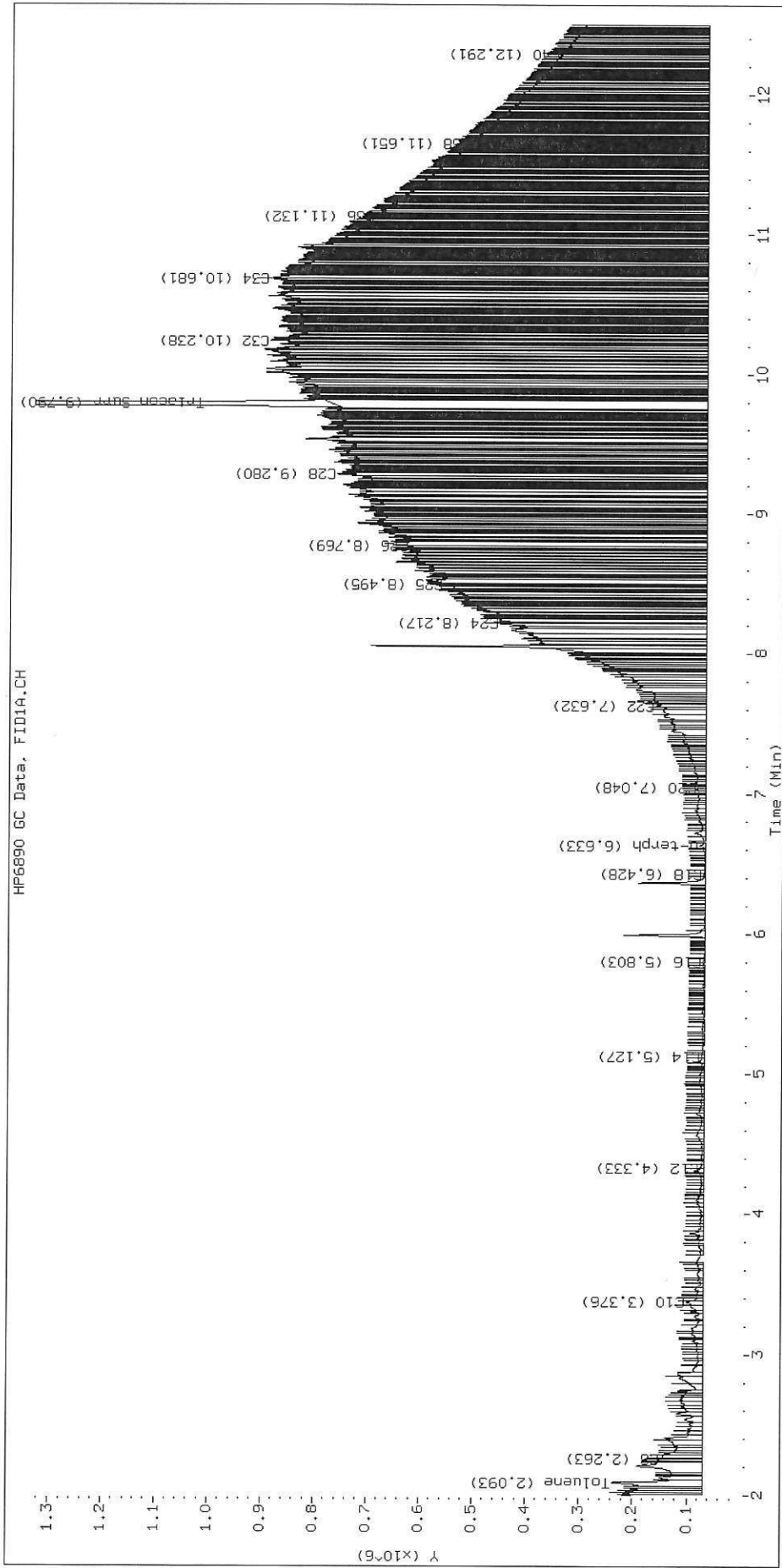
Surrogate	Area	Amount
o-Terphenyl	15135	0.1
Triacotane	7927188	44.5 M

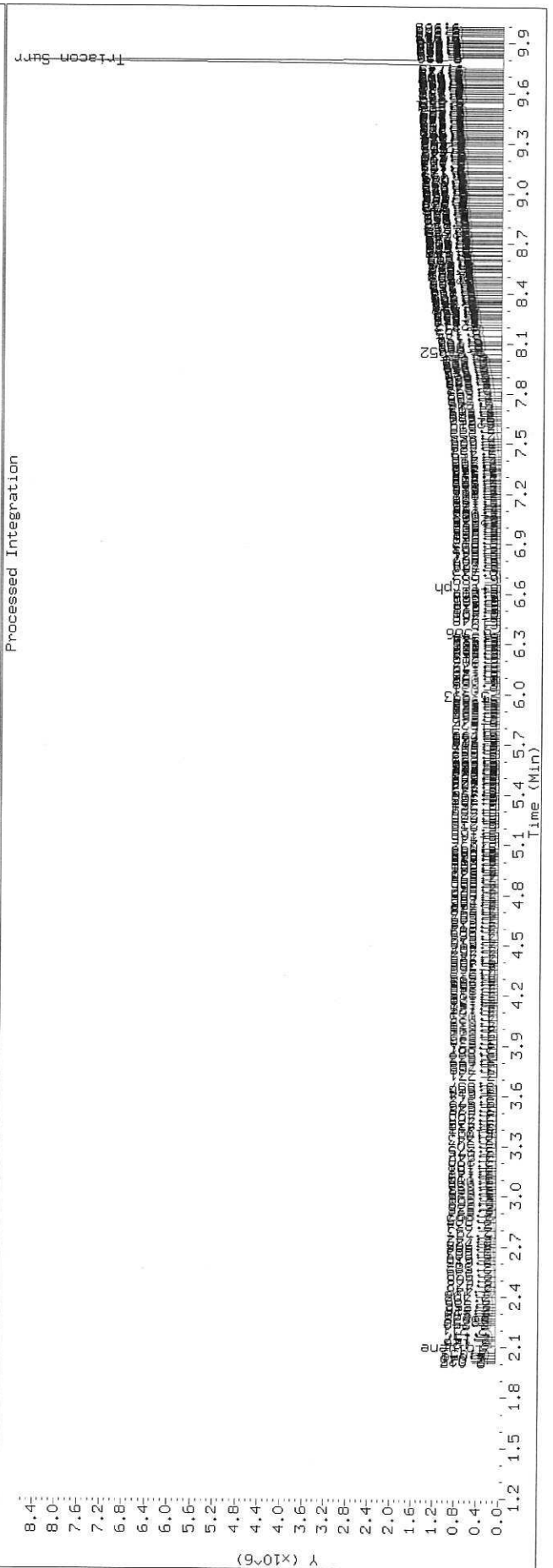
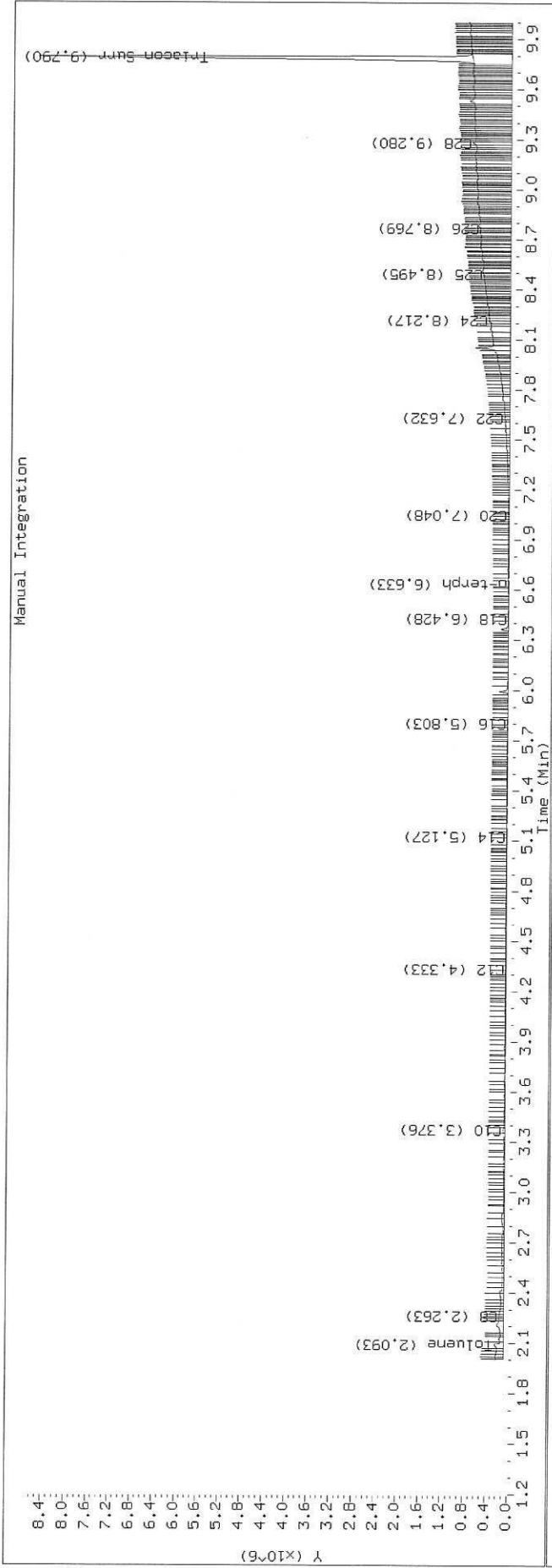
M - Indicates the peak was manually integrated

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

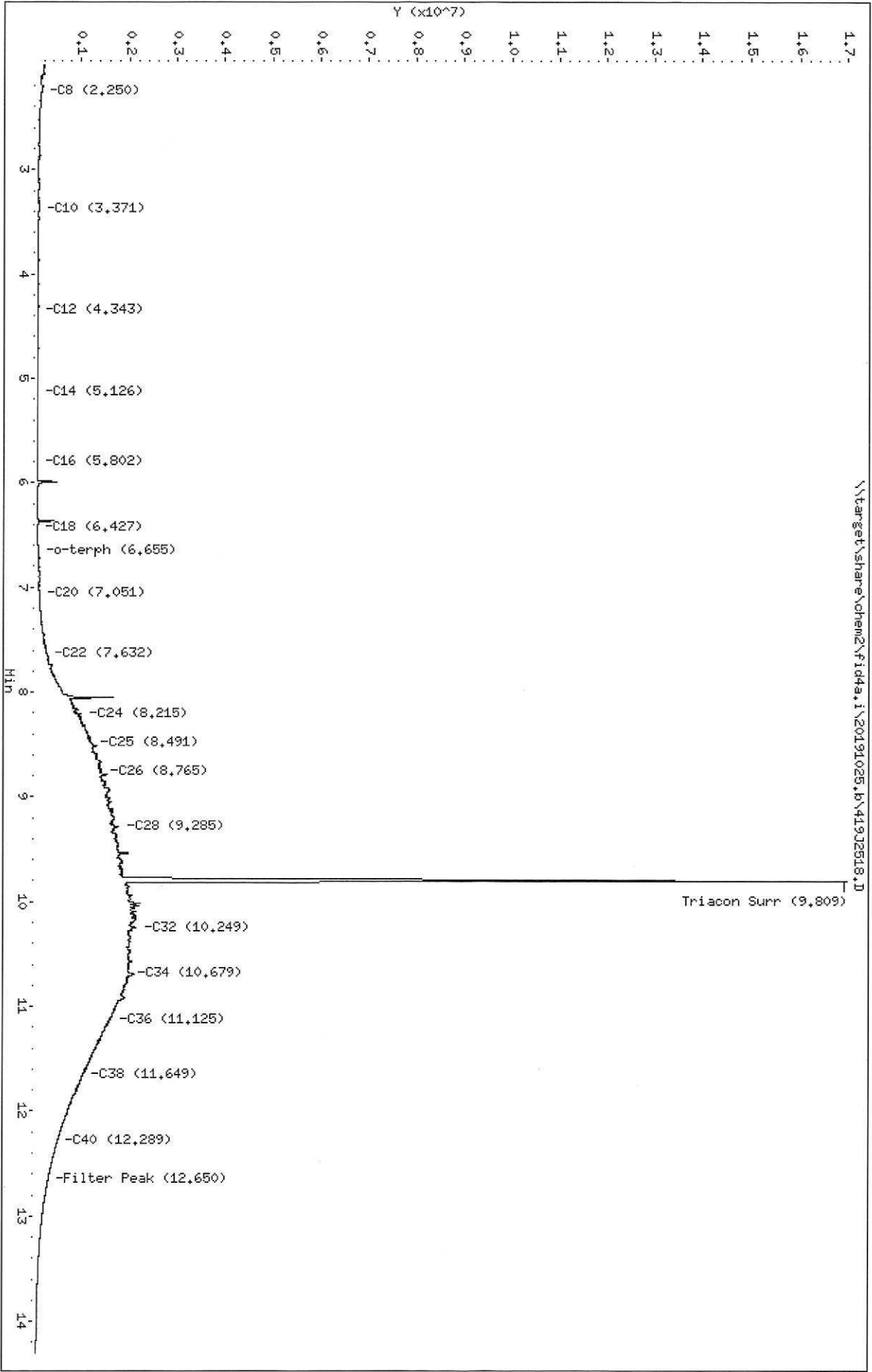
HF6890 GC Data, FID1A.CH





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)

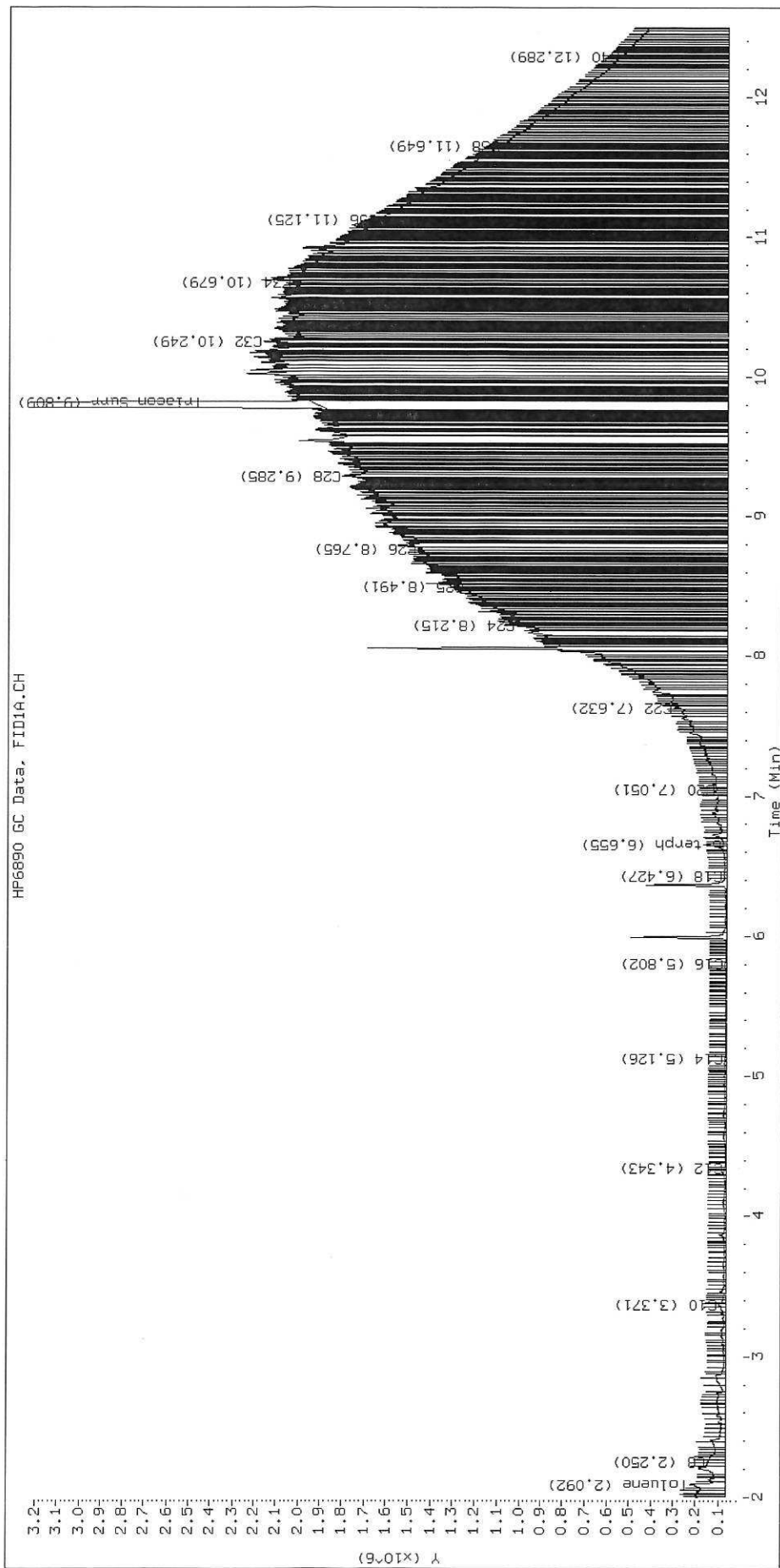
Surrogate	Area	Amount
o-Terphenyl	15731	0.1
Triacontane	20120024	113.0 M

M Indicates the peak was manually integrated

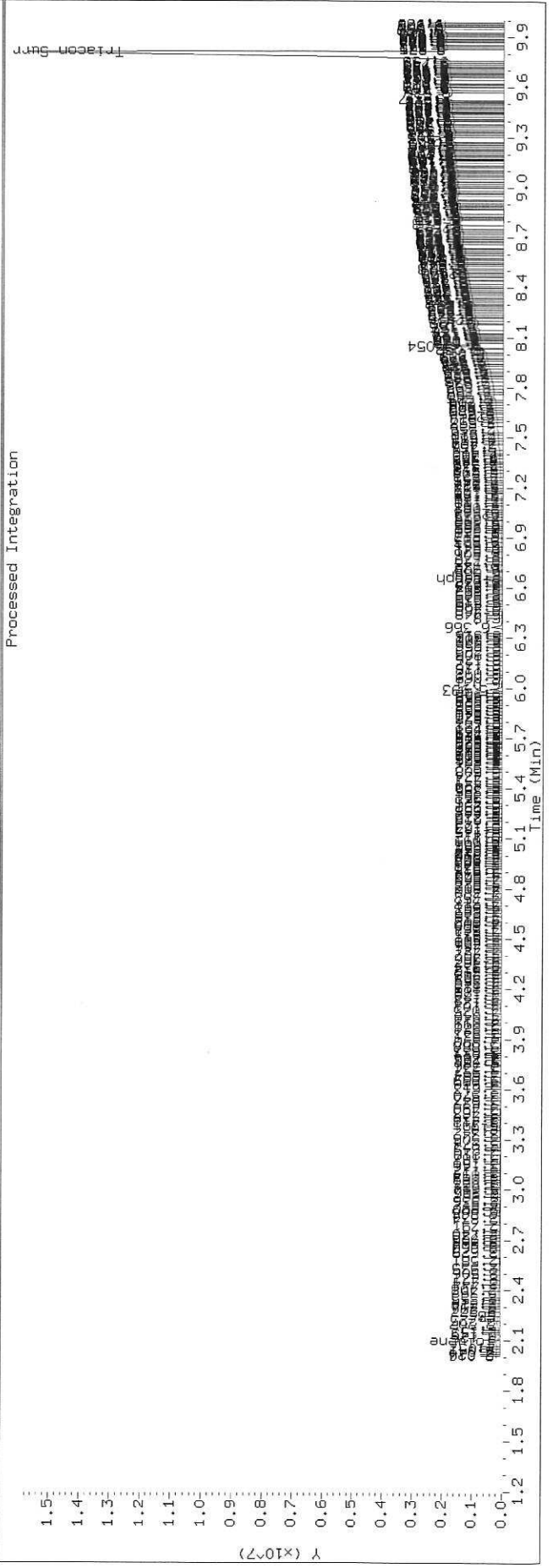
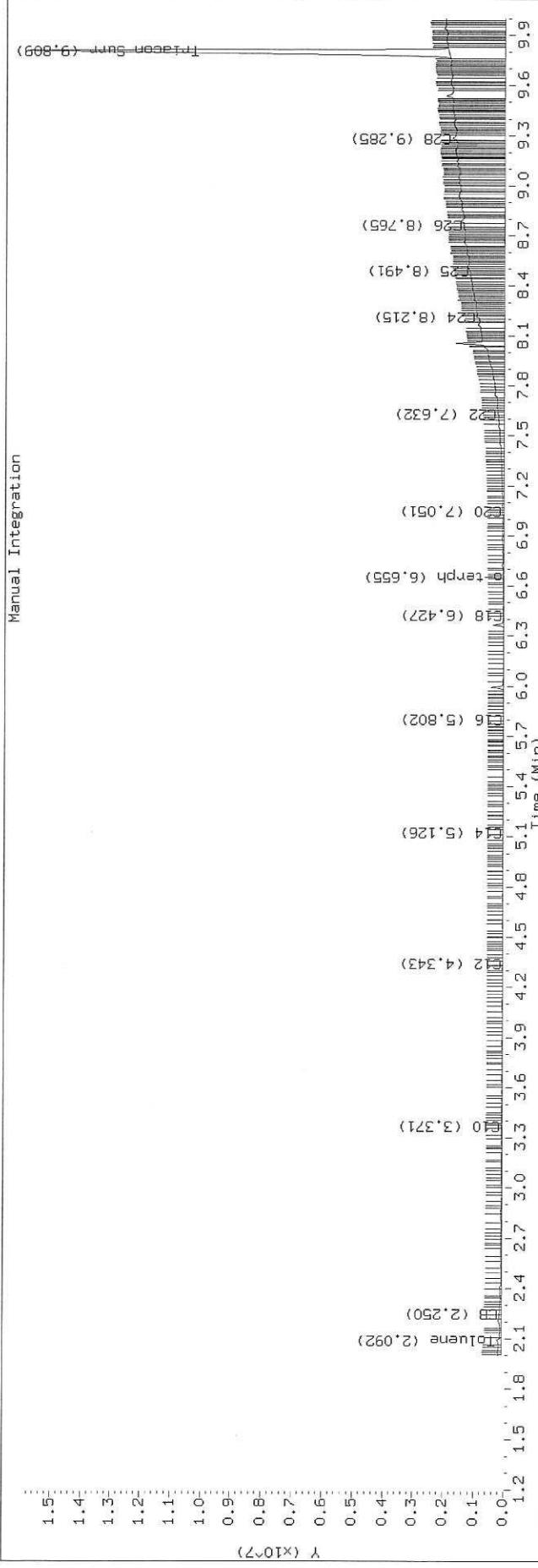
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH



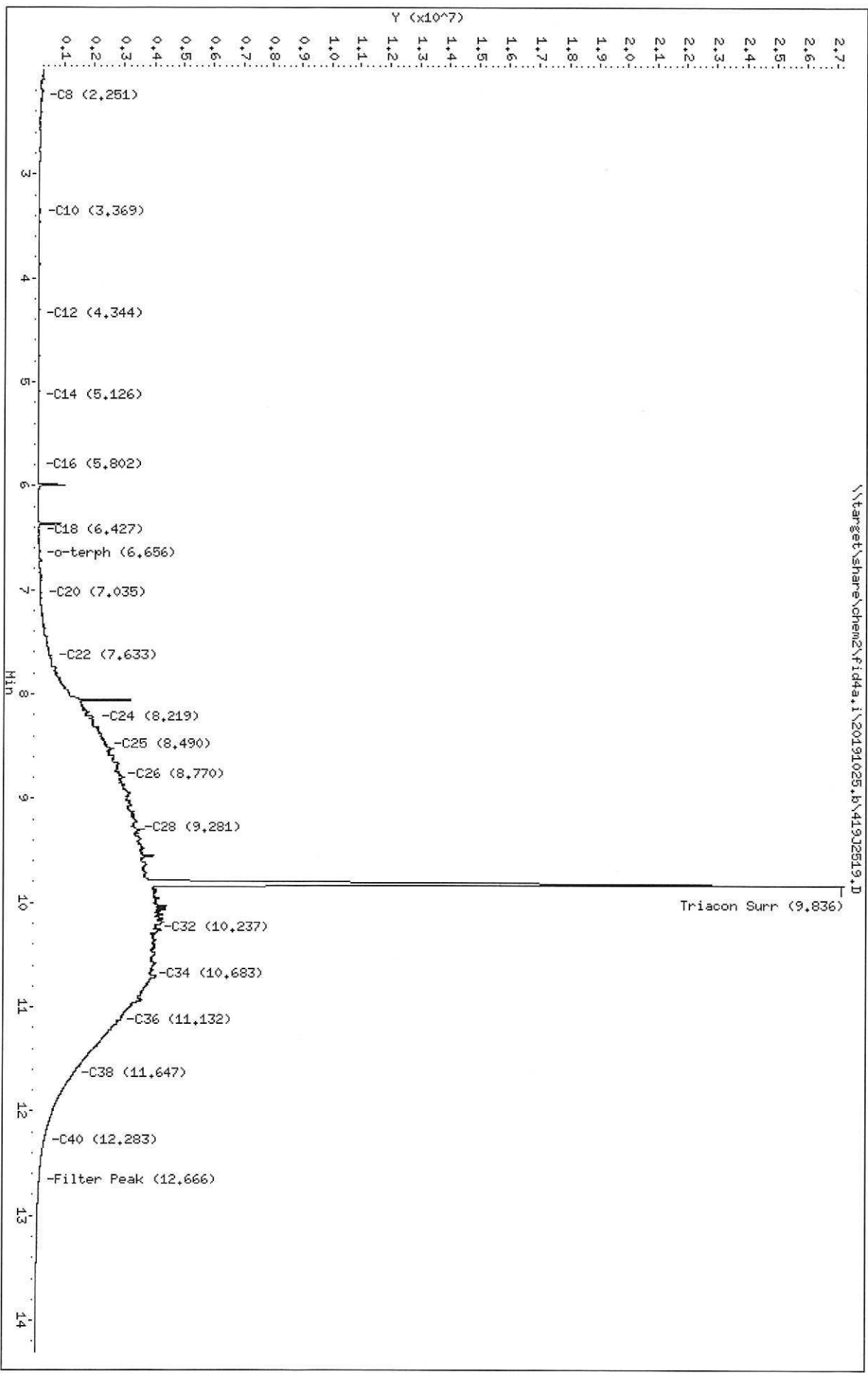
TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2518.D Injection: 25-OCT-2019 17:34
 Lab ID: SHJ0406-CALB



Data File: \\target\share\chem2\fid4a.1\20191025.b\419J2519.D
Date: 25-OCT-2019 17:54
Client ID:
Sample Info: SHJ0406-CALC

Column phase: RTX-1

Instrument: fid4a.1
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)

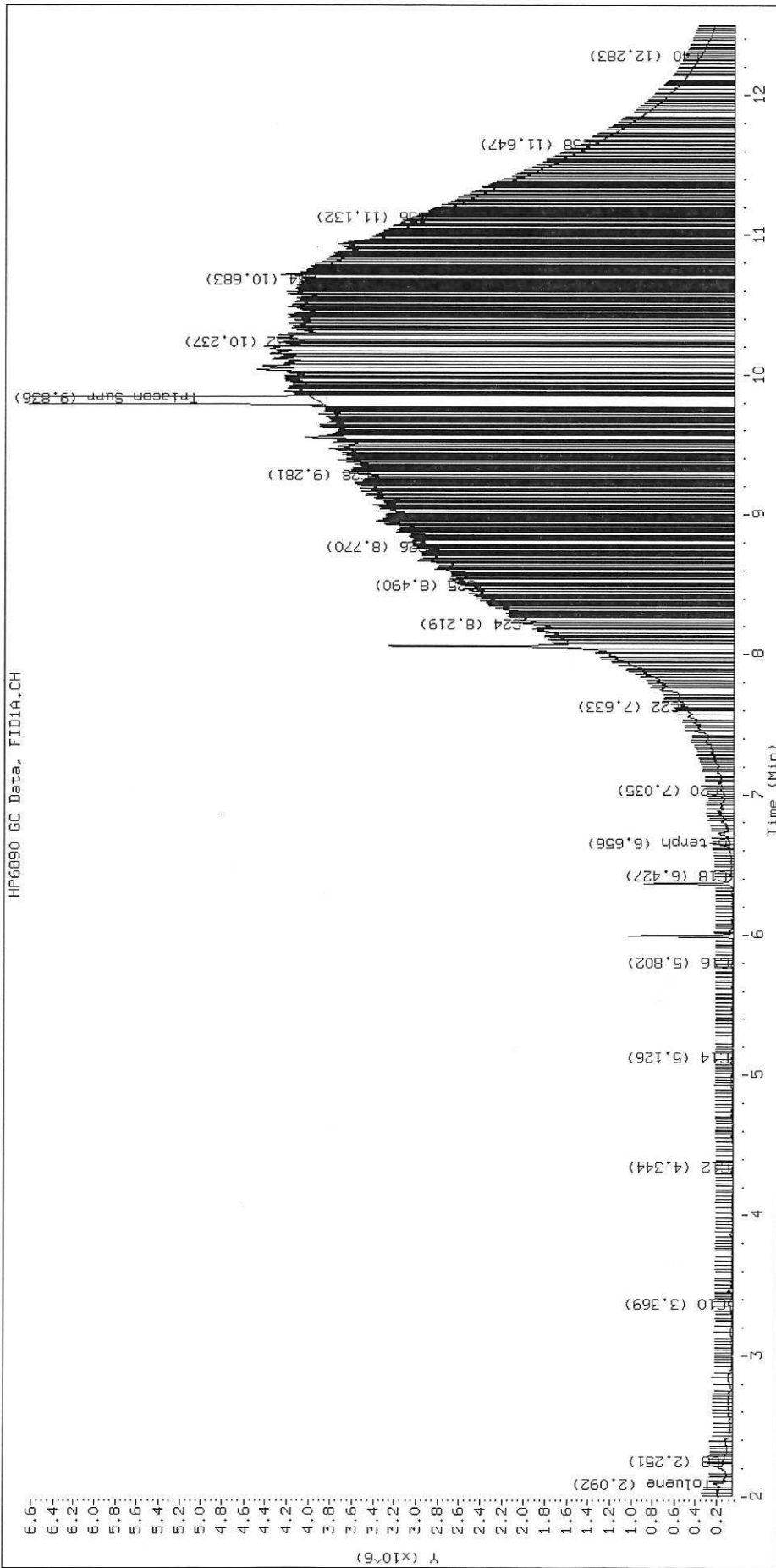
Surrogate	Area	Amount
o-Terphenyl	66343	0.3
Triacotane	39698048	223.0 M

M Indicates the peak was manually integrated

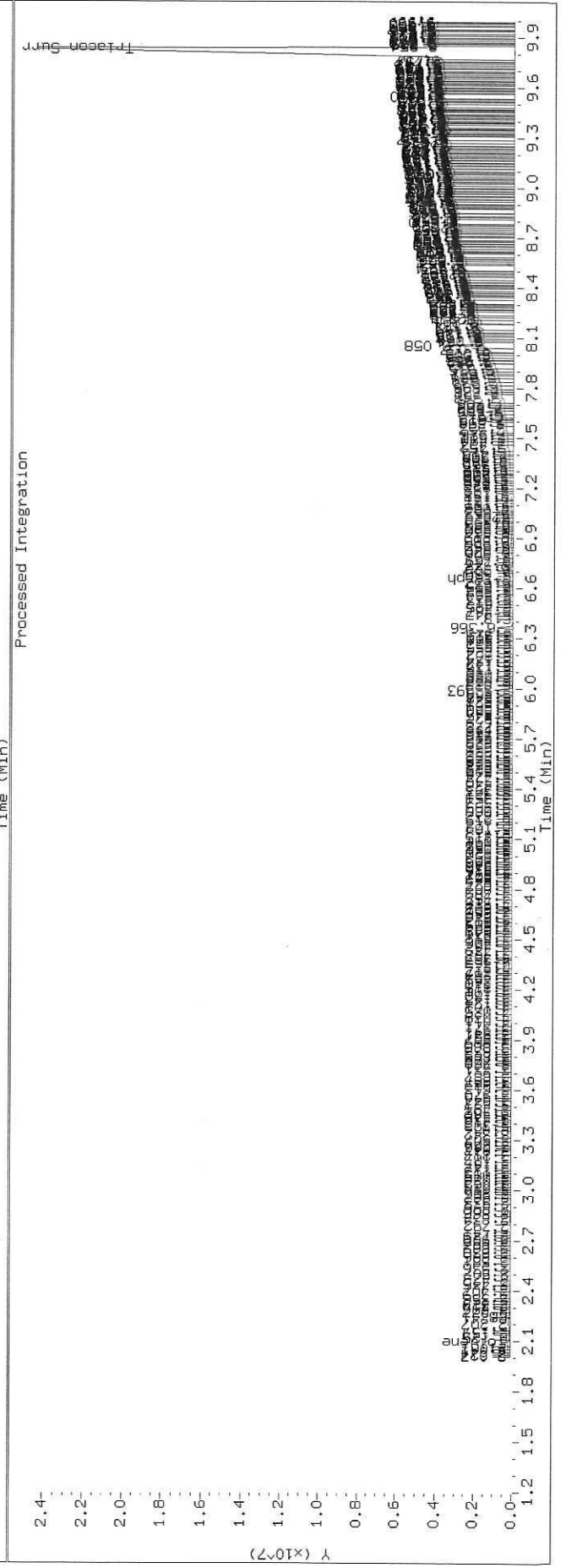
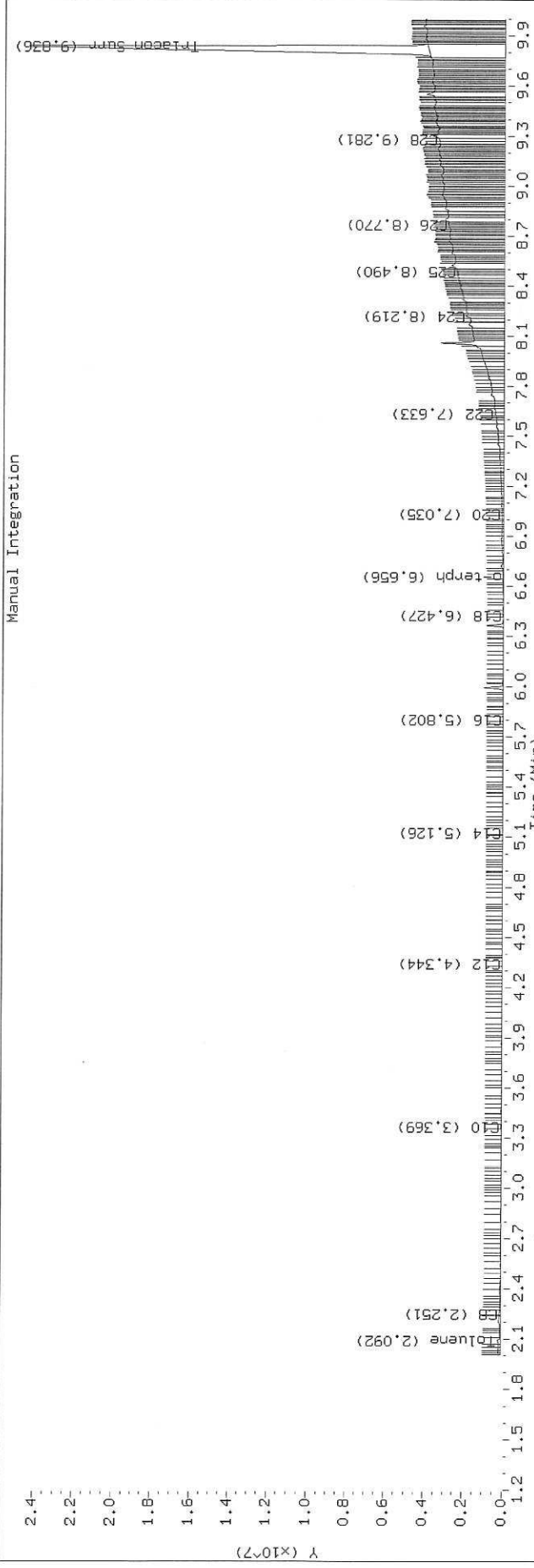
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH



TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2519.D Injection: 25-OCT-2019 17:54
 Lab ID:SHJ0406-CALC



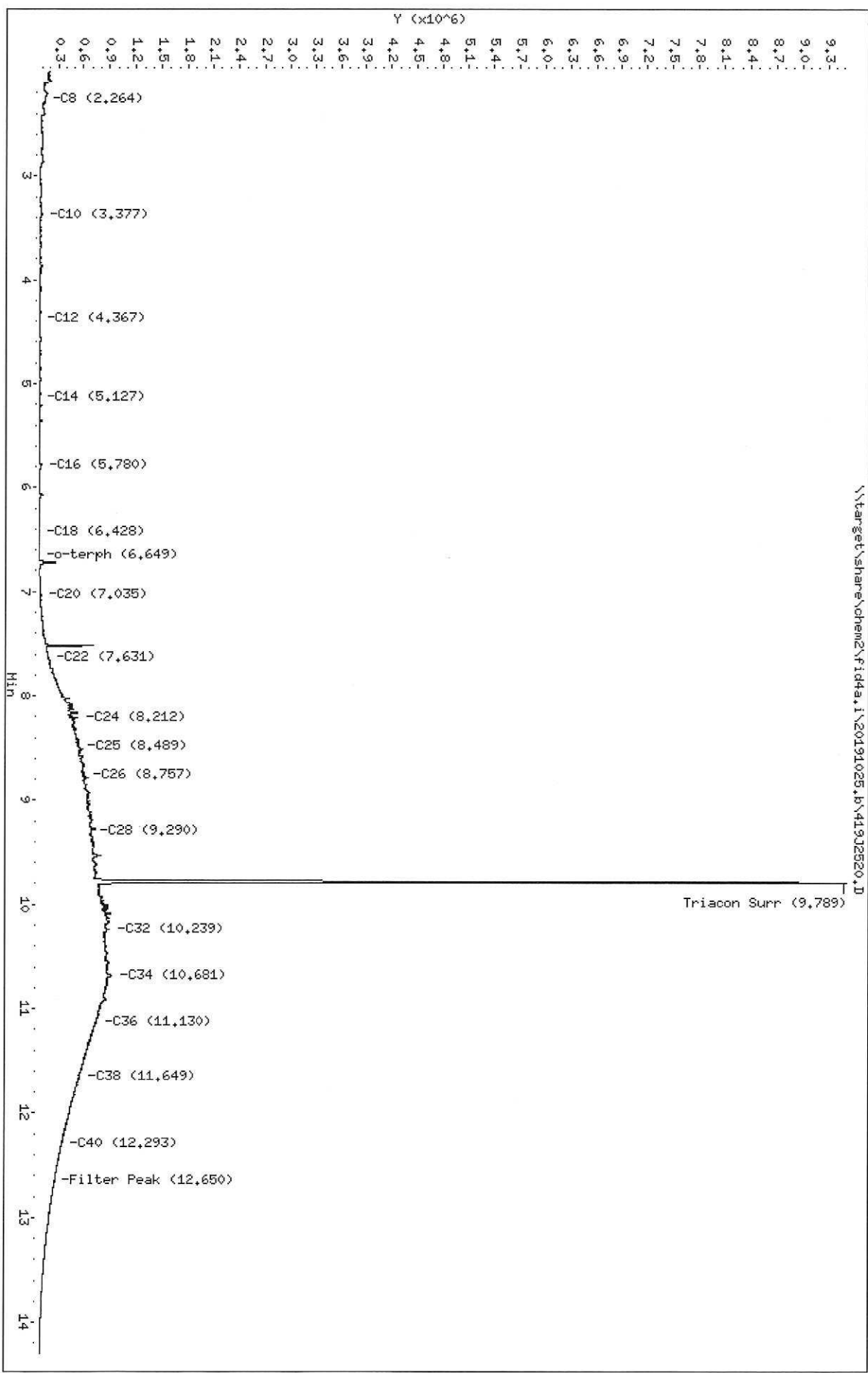
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Date: 25-OCT-2019 18:14
Client ID:
Sample Info: SHJ0406-SCV2

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)

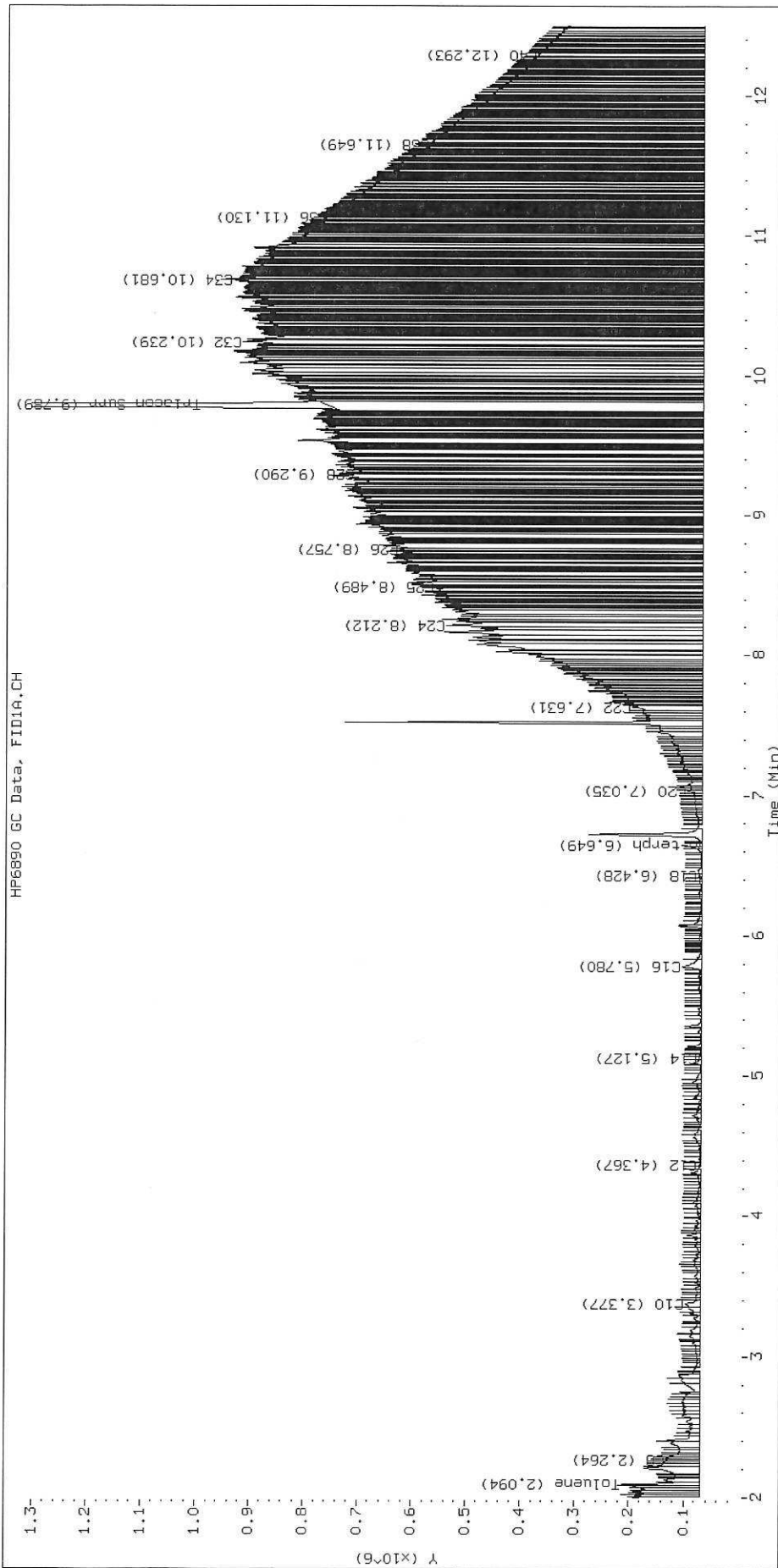
Surrogate	Area	Amount
o-Terphenyl	3699	0.0
Triacontane	8519530	47.9 M

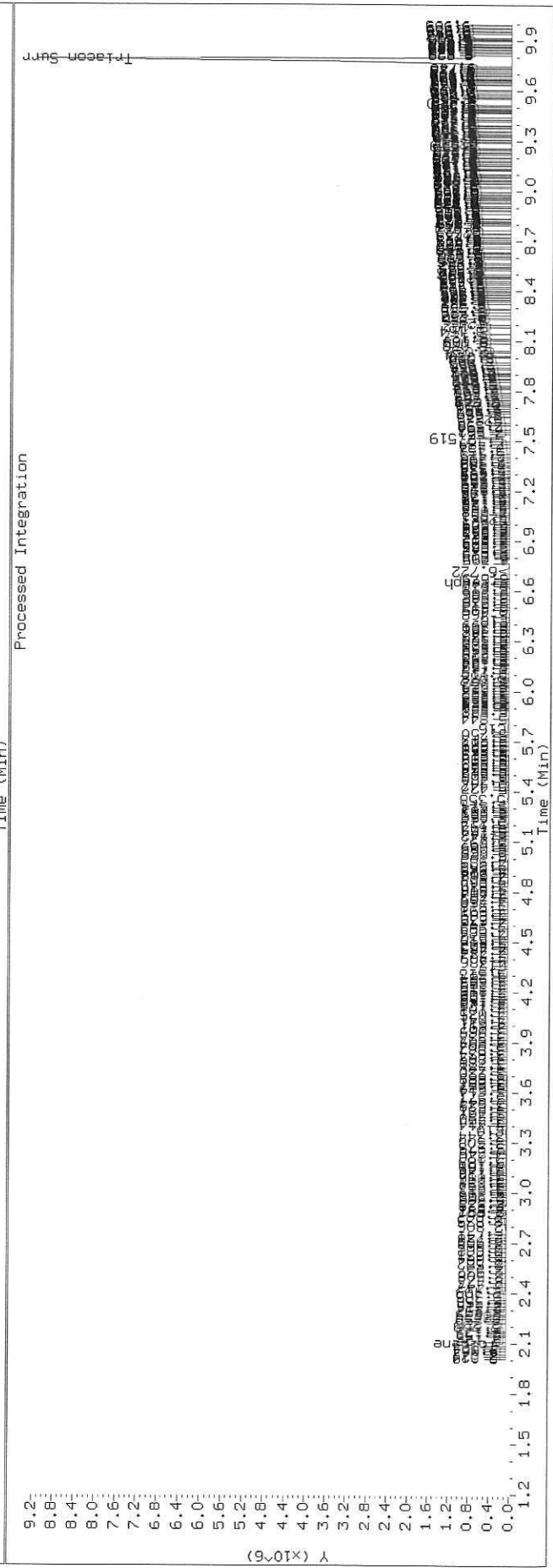
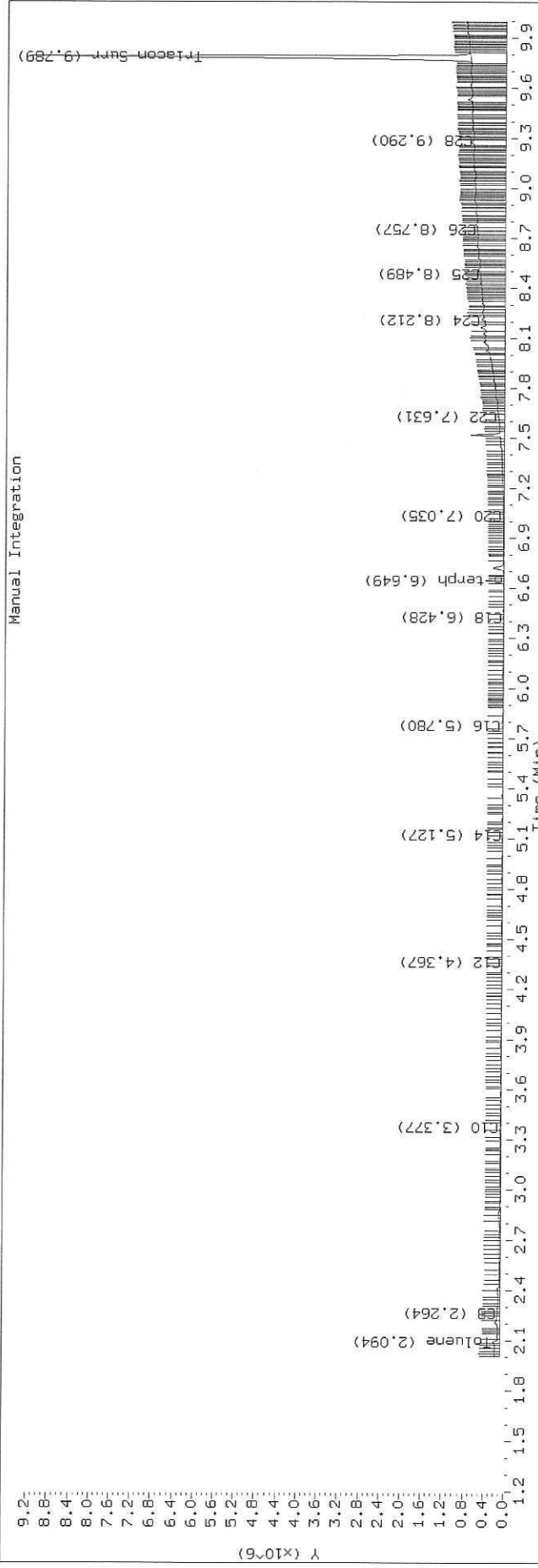
M Indicates the peak was manually integrated

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





Data File: \\target\share\chem2\Fidda.i\20191025.b\41932521.D

Date : 25-OCT-2019 18:35

Client ID:

Sample Info: SH00406-CALD

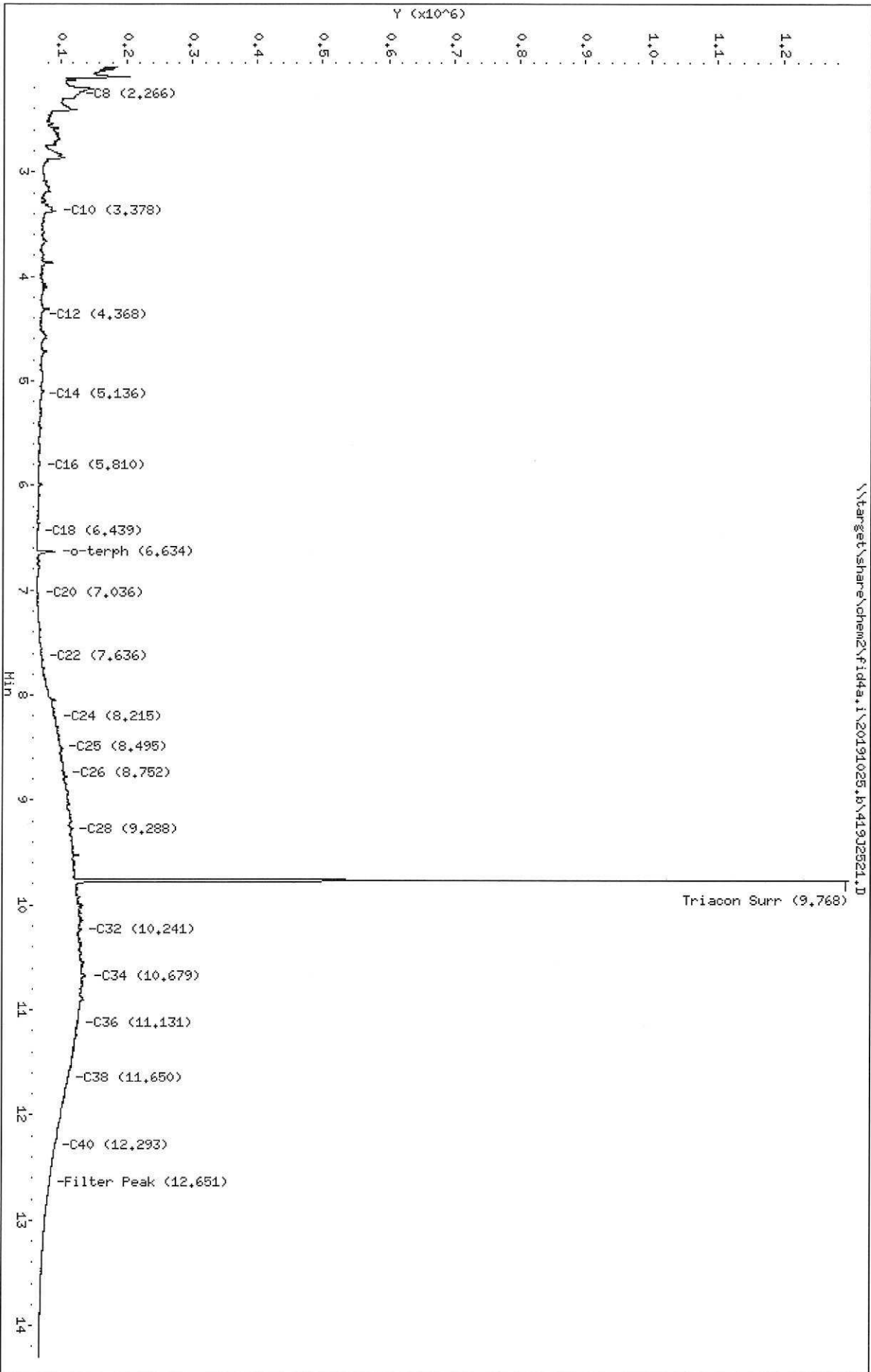
Column phase: RTX-1

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)

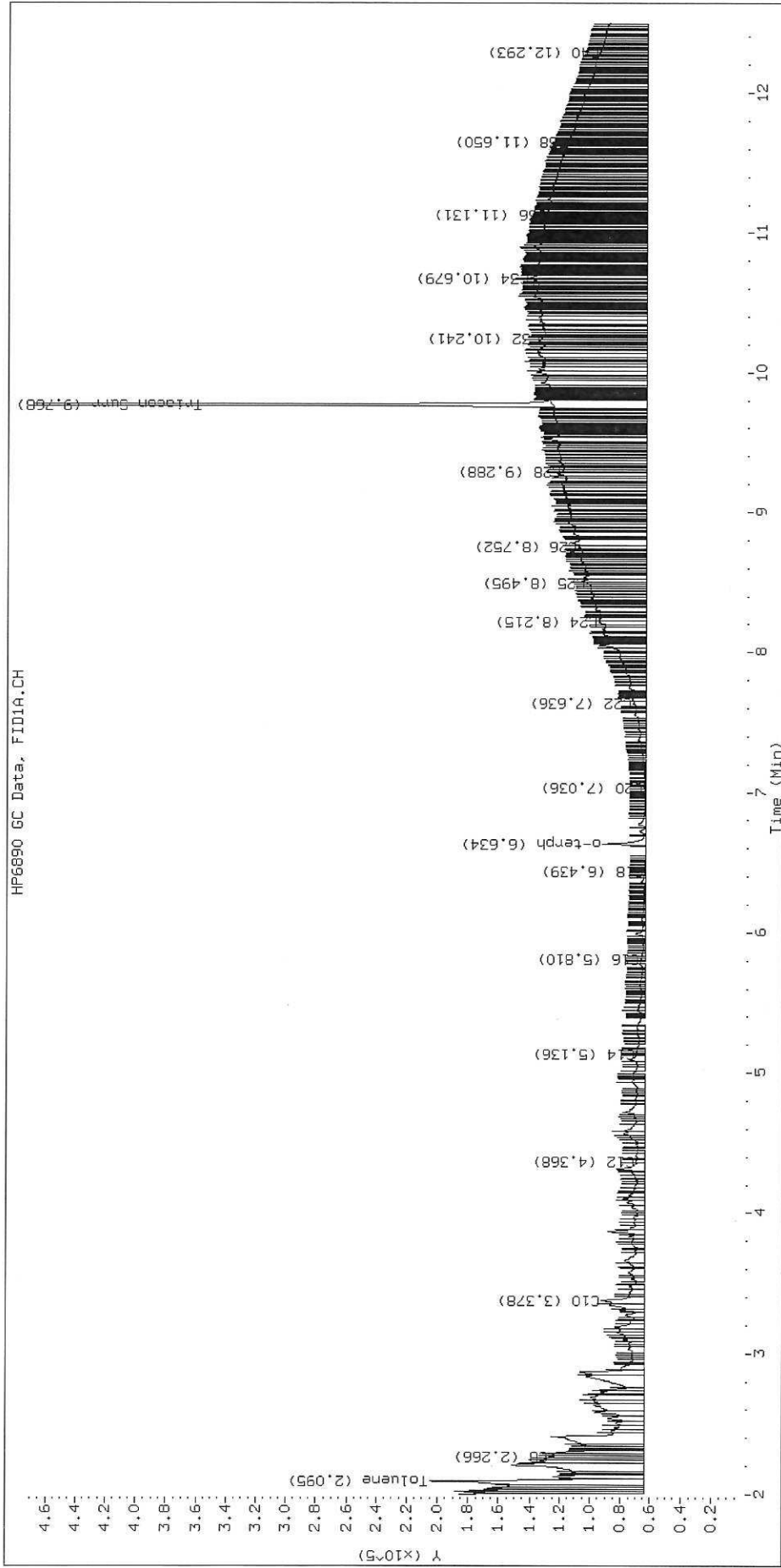
Surrogate	Area	Amount
o-Terphenyl	34405	0.2
Triacontane	818277	4.6 M

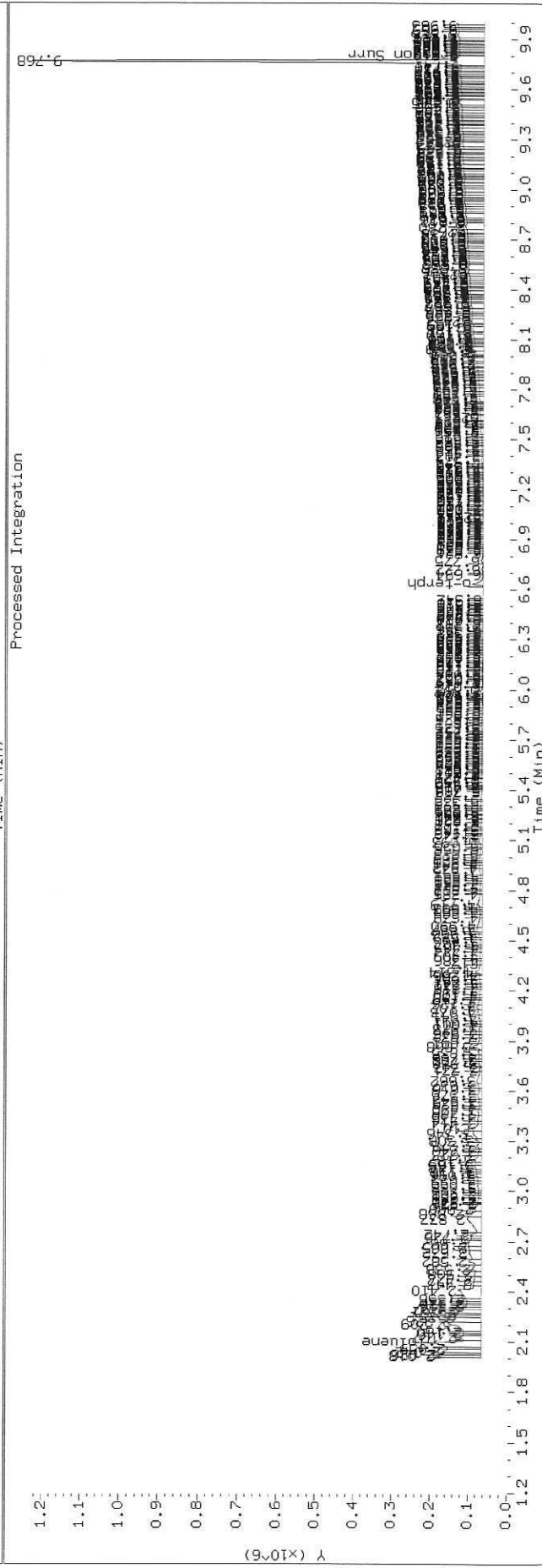
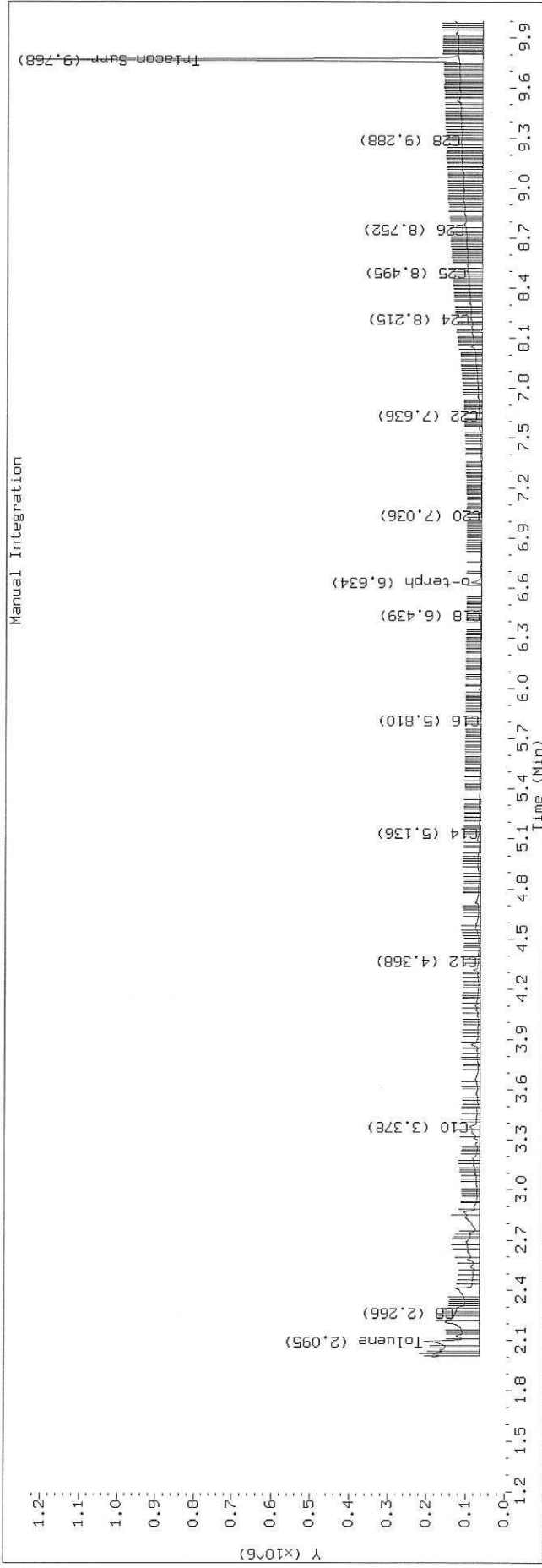
M Indicates the peak was manually integrated

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





Data File: \\target\share\chem2\fid4a.i\20191025.b\41932522.D

Date: 25-OCT-2019 18:55

Client ID:

Sample Info: SHJ0406-CALE

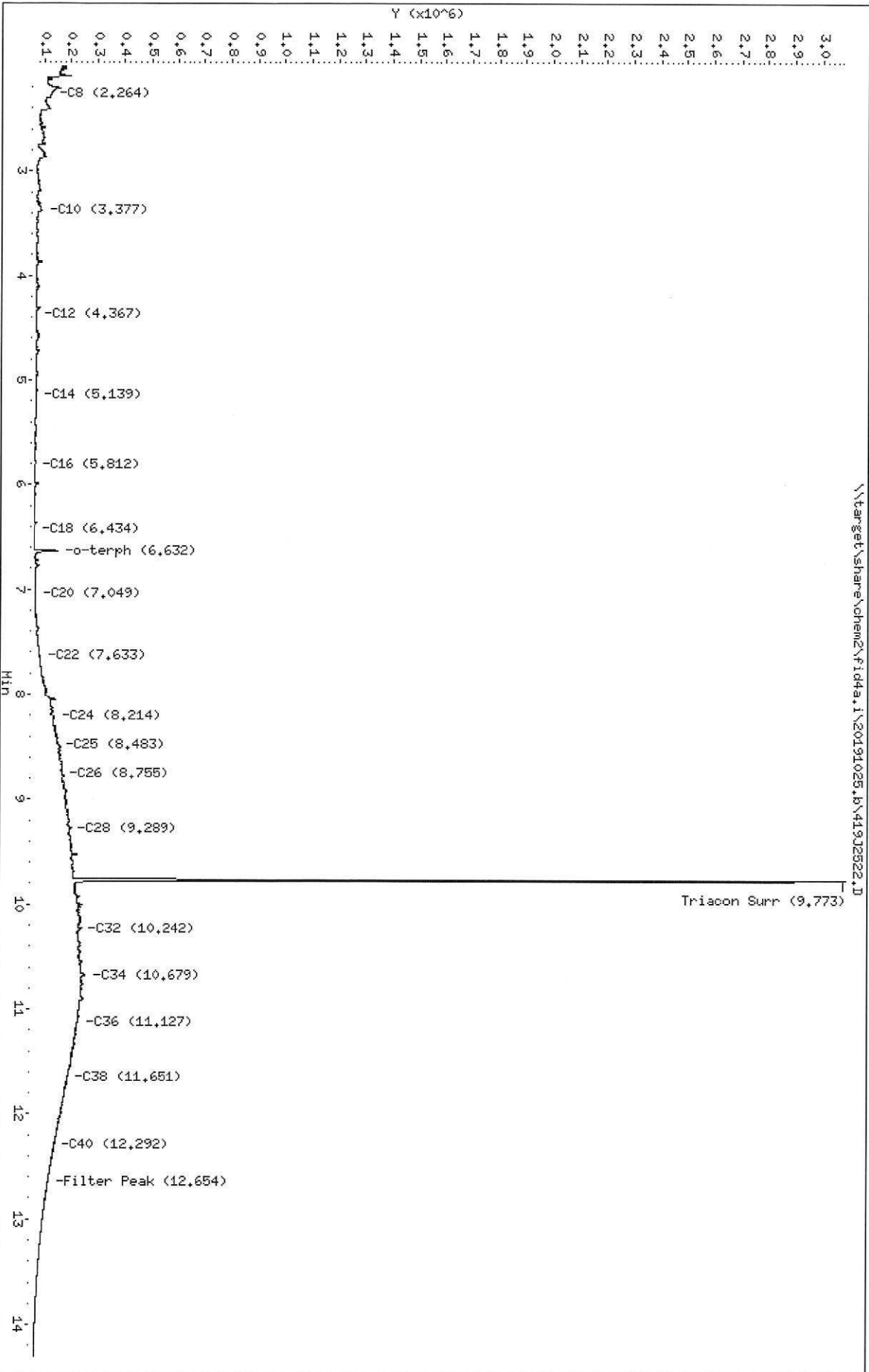
Column phase: RTX-1

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)

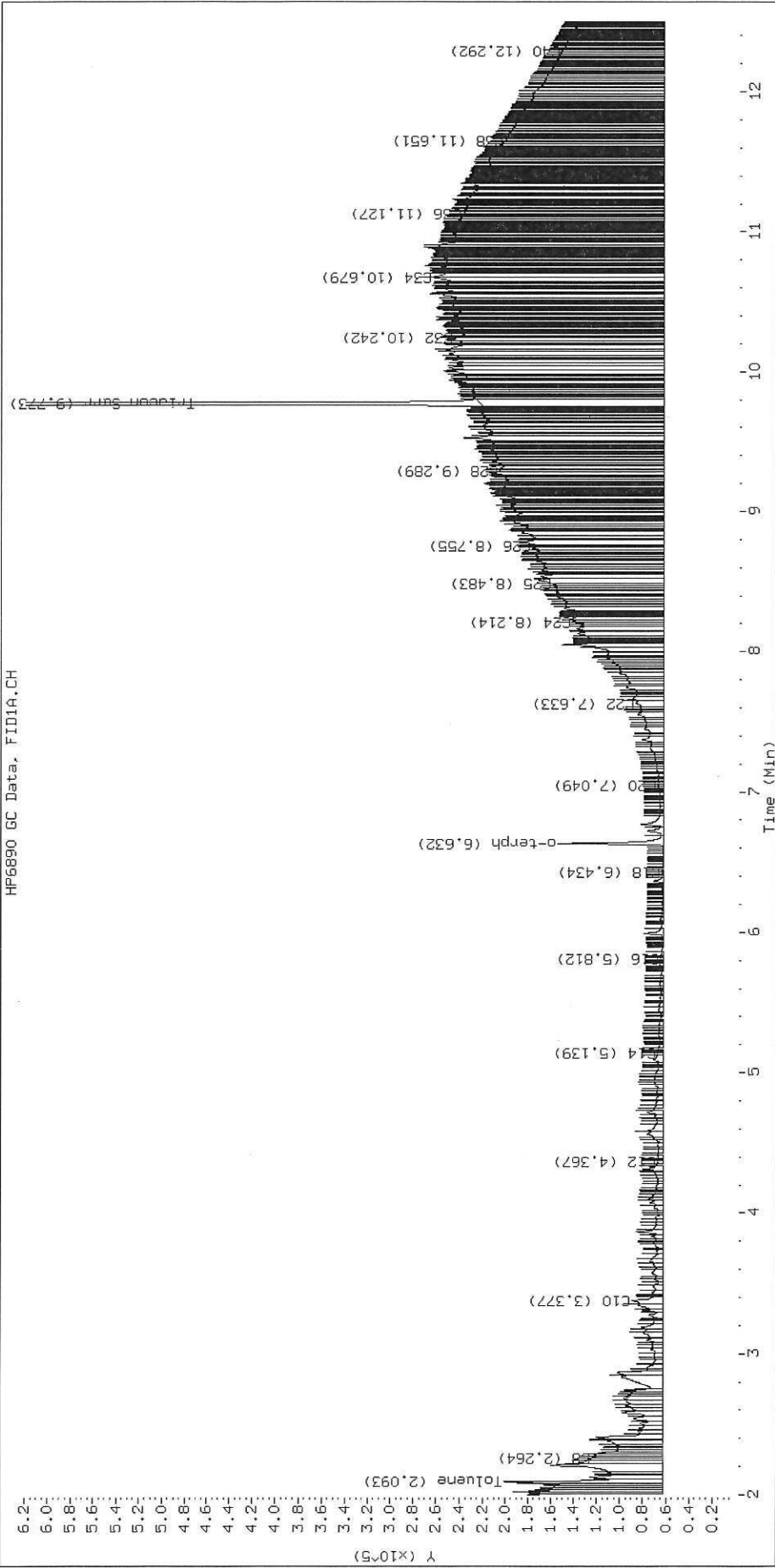
Surrogate	Area	Amount
o-Terphenyl	90689	0.4
Triacotane	2058184	11.6 M

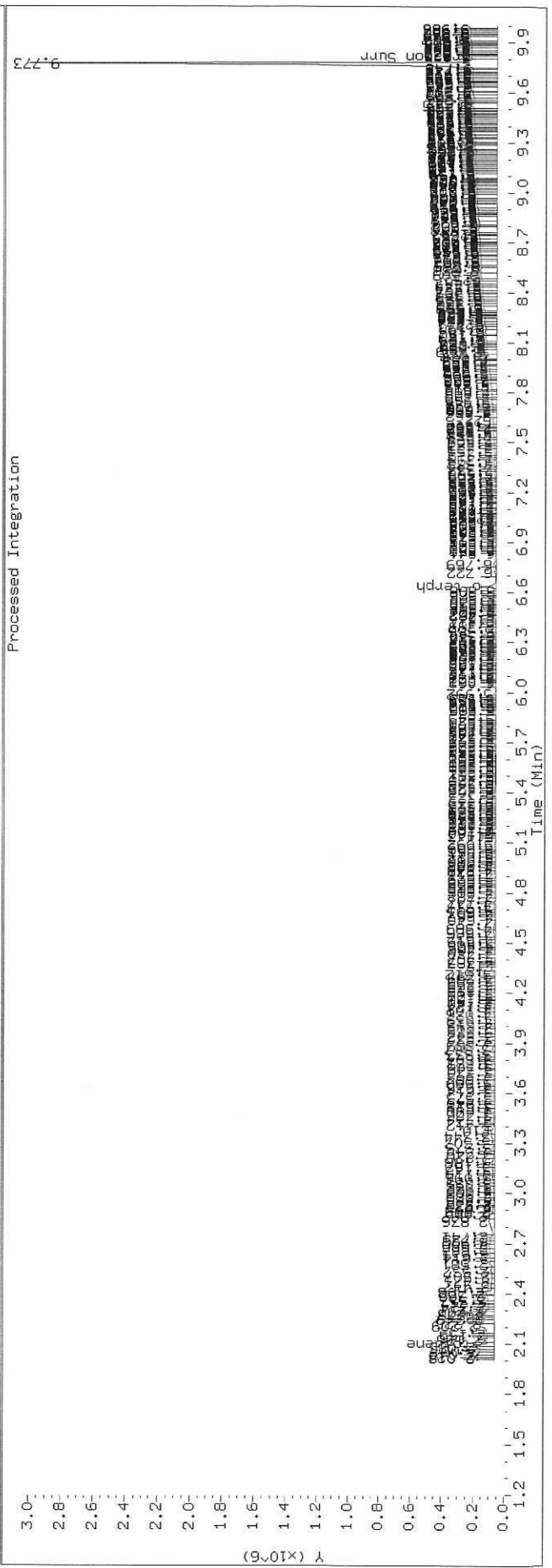
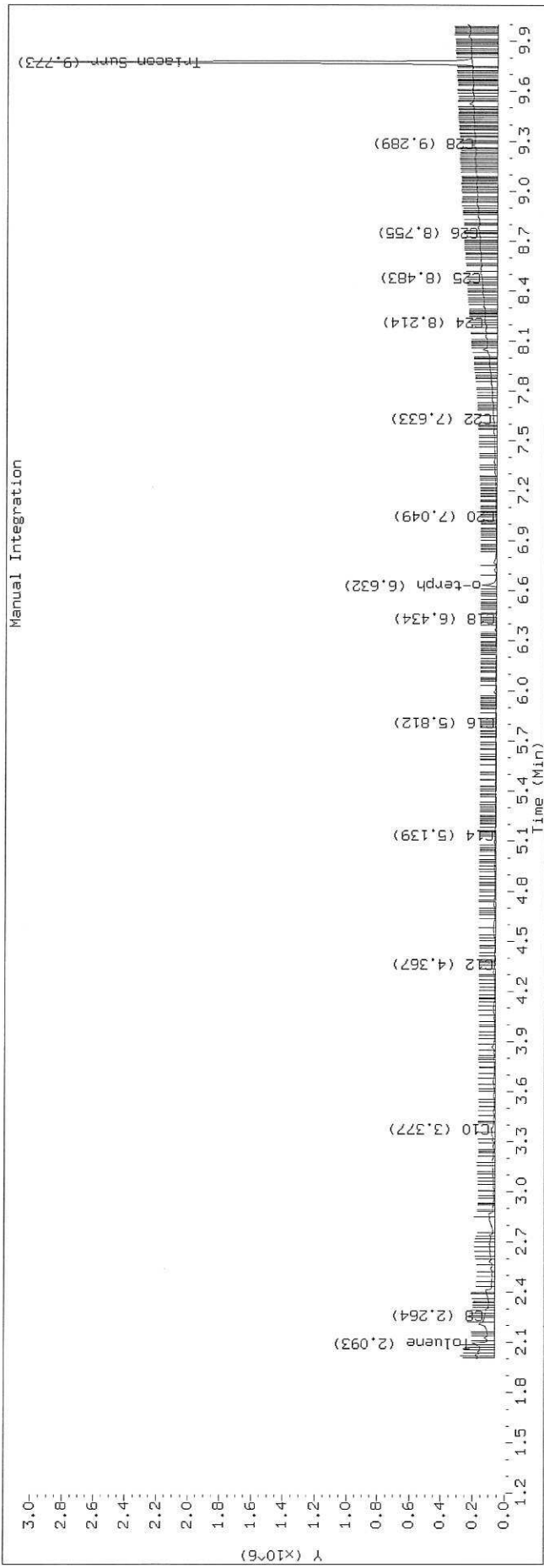
M Indicates the peak was manually integrated

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





Data File: \\target\share\chem2\fid4a.i\20191025.B\41932623.D
Date: 25-OCT-2019 19:15

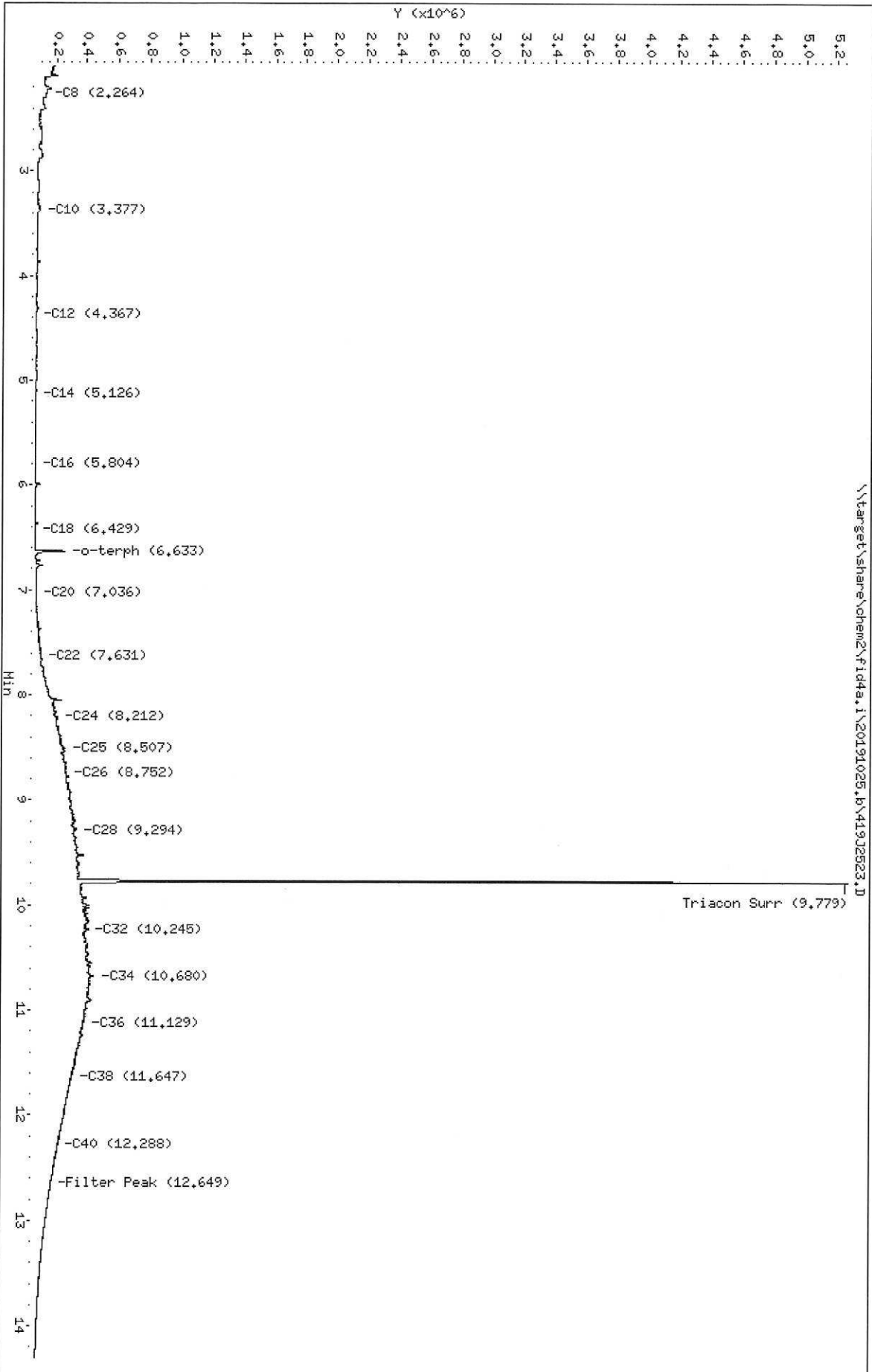
Client ID:
Sample Info: SHJ0406-CALF

Column phase: RTX-1

Instrument: fid4a.i

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

Page 1



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)

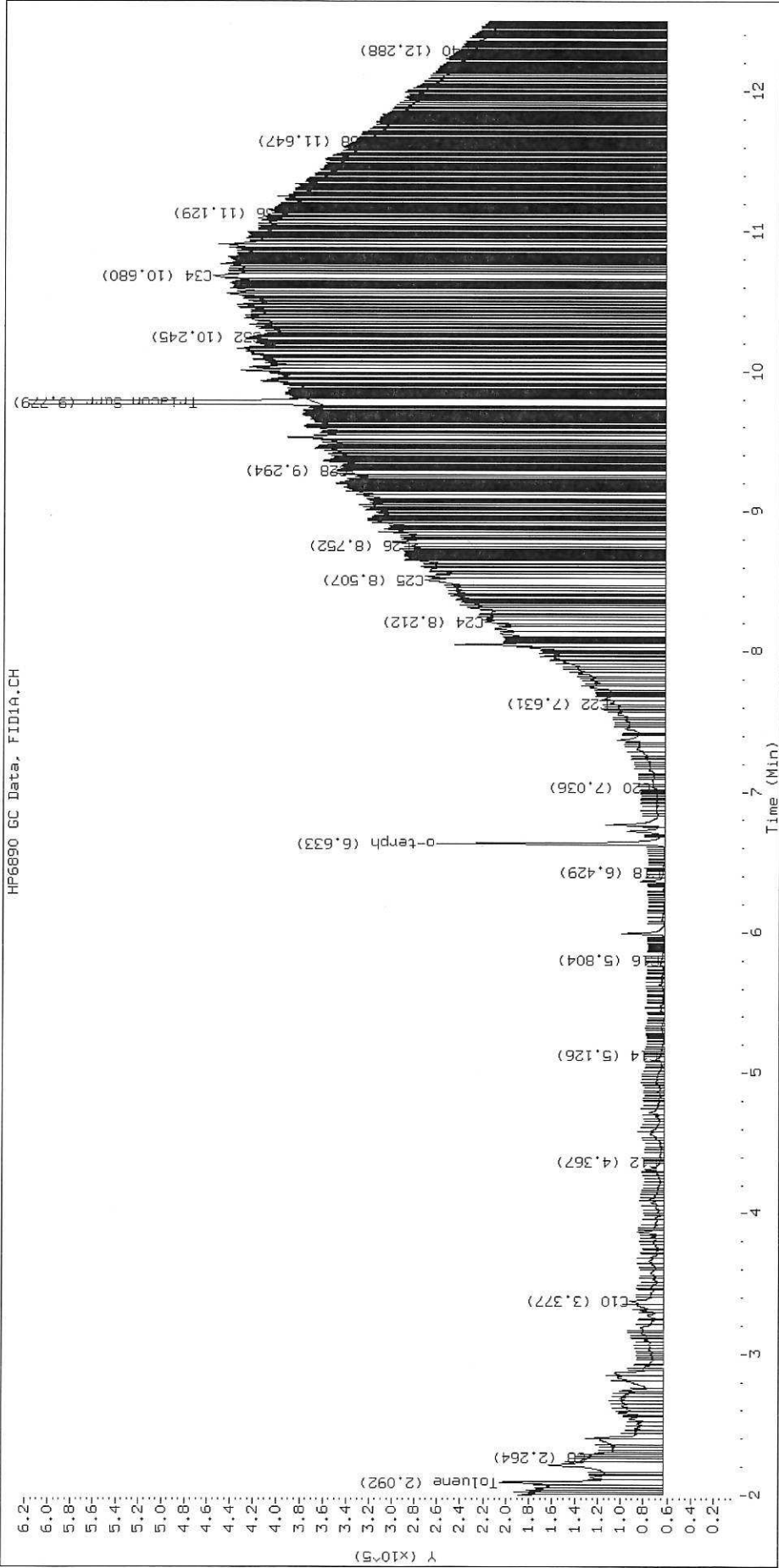
Surrogate	Area	Amount
o-Terphenyl	176995	0.9
Triacotane	3941895	22.1 M

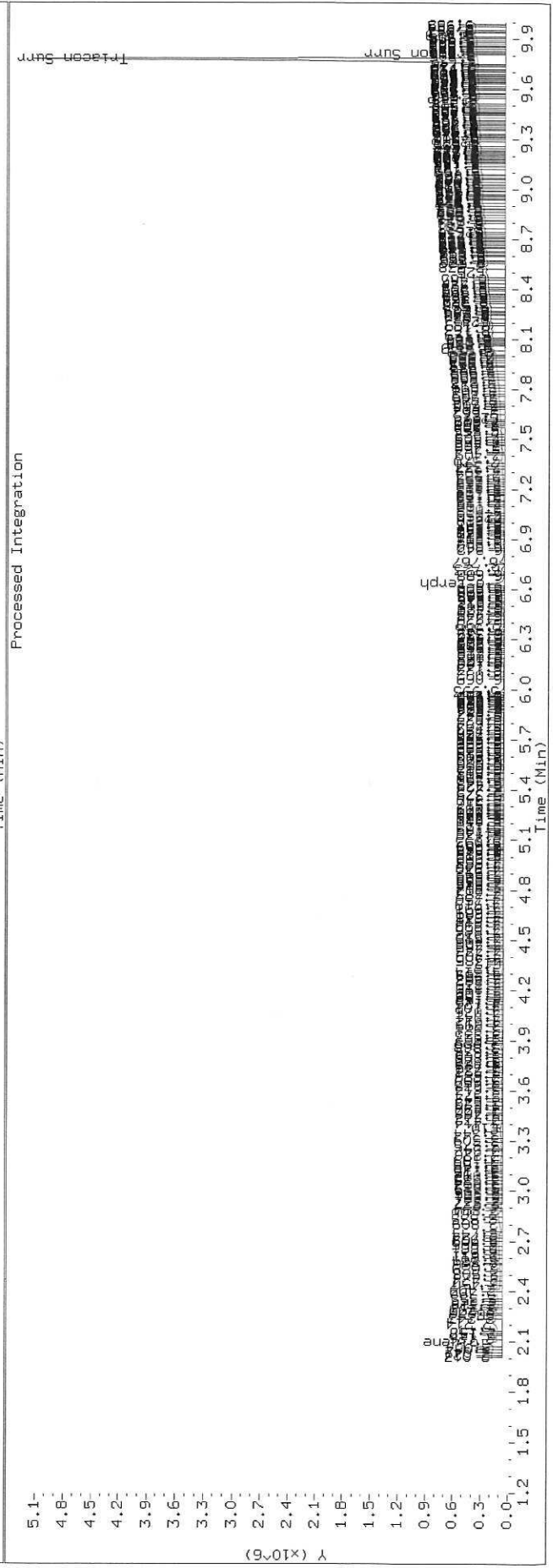
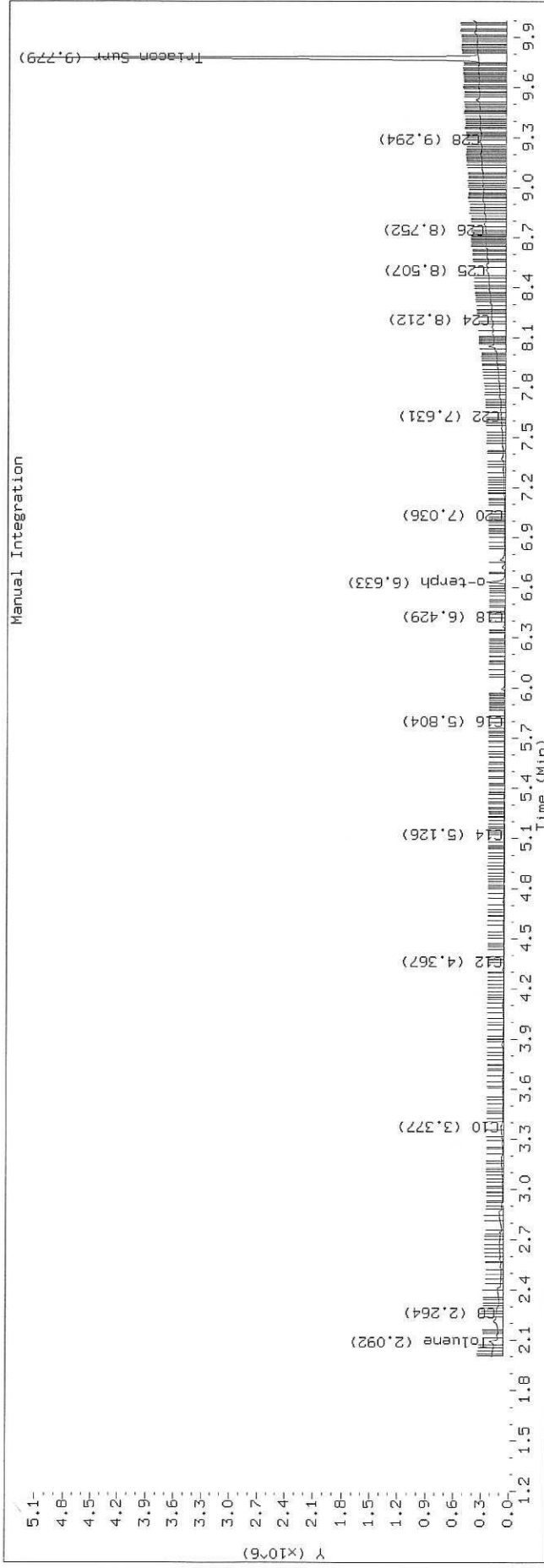
M Indicates the peak was manually integrated

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

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

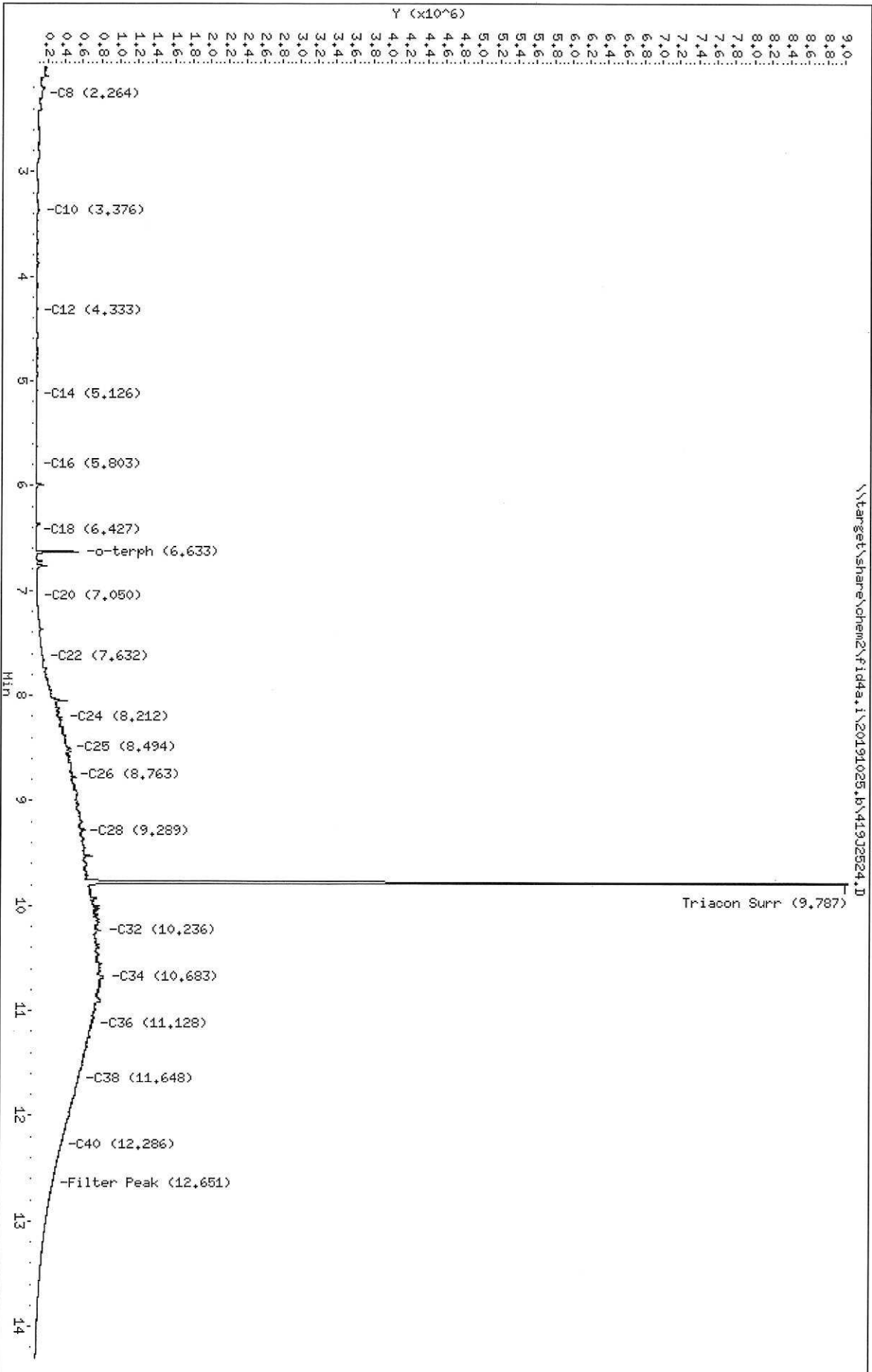
Column phase: RTX-1

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)

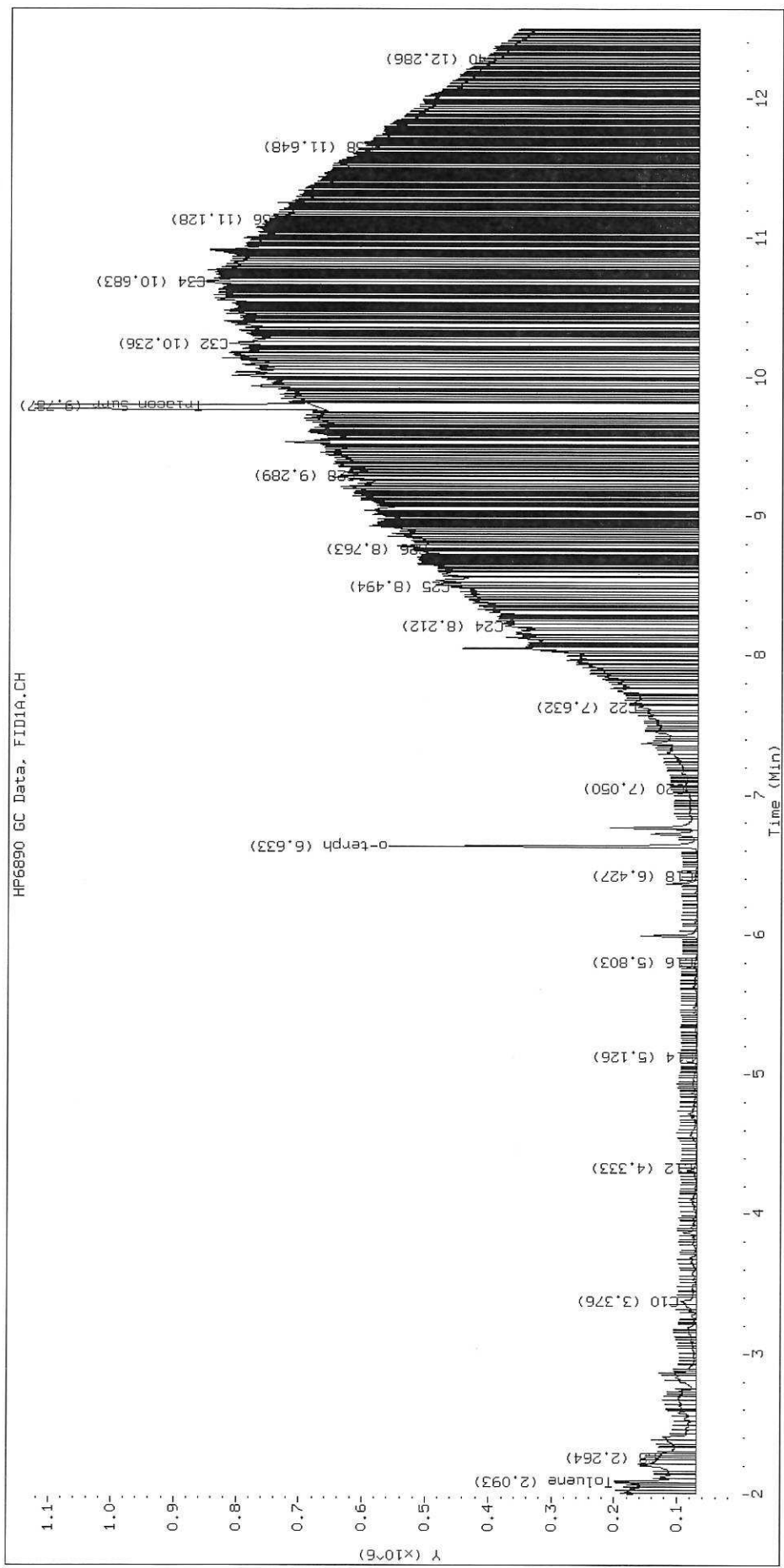
Surrogate	Area	Amount
o-Terphenyl	368237	1.8
Triacotane	7933666	44.6 M

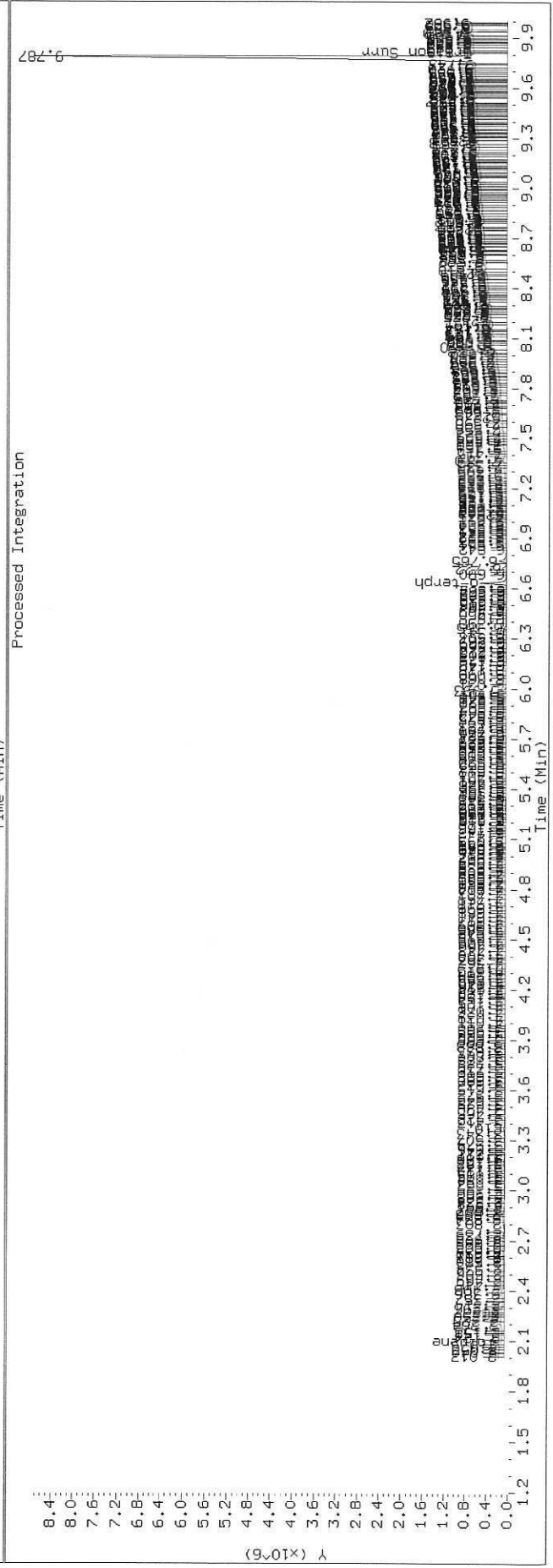
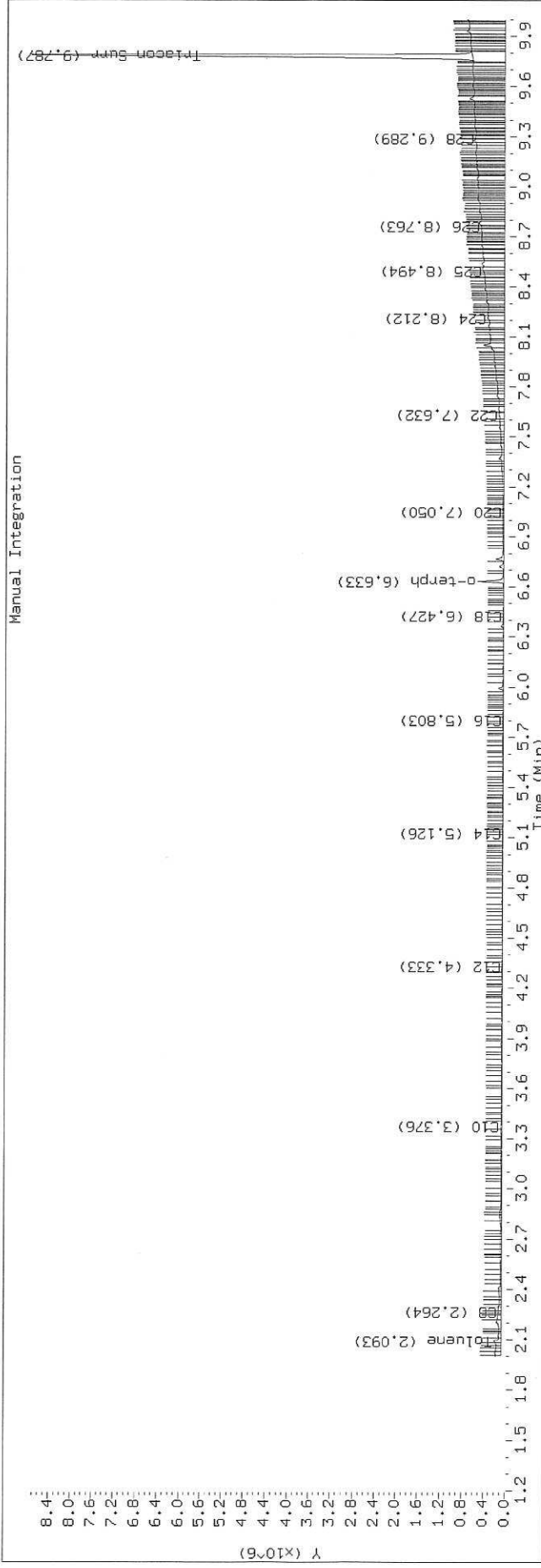
M Indicates the peak was manually integrated

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

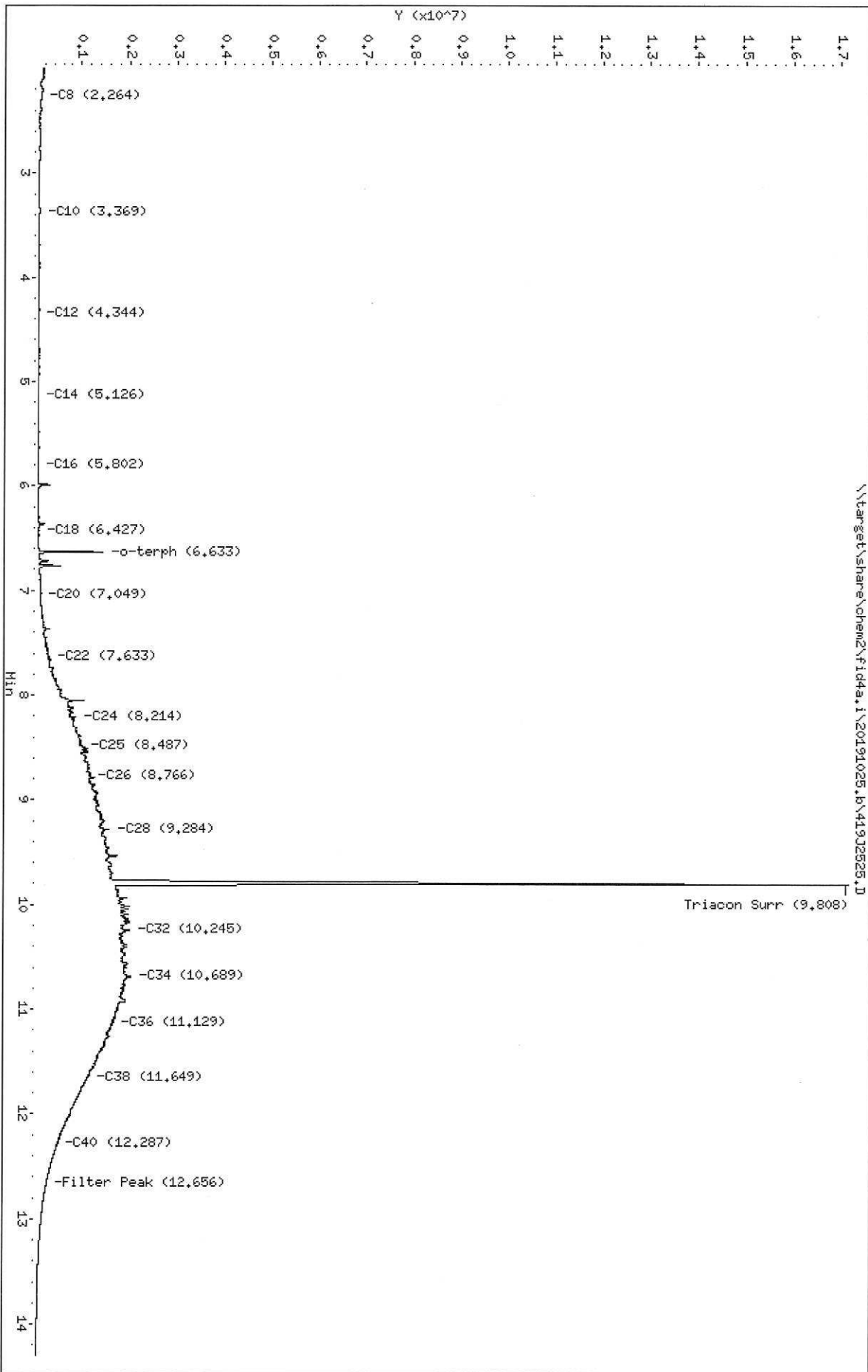
Column phase: RTX-1

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)

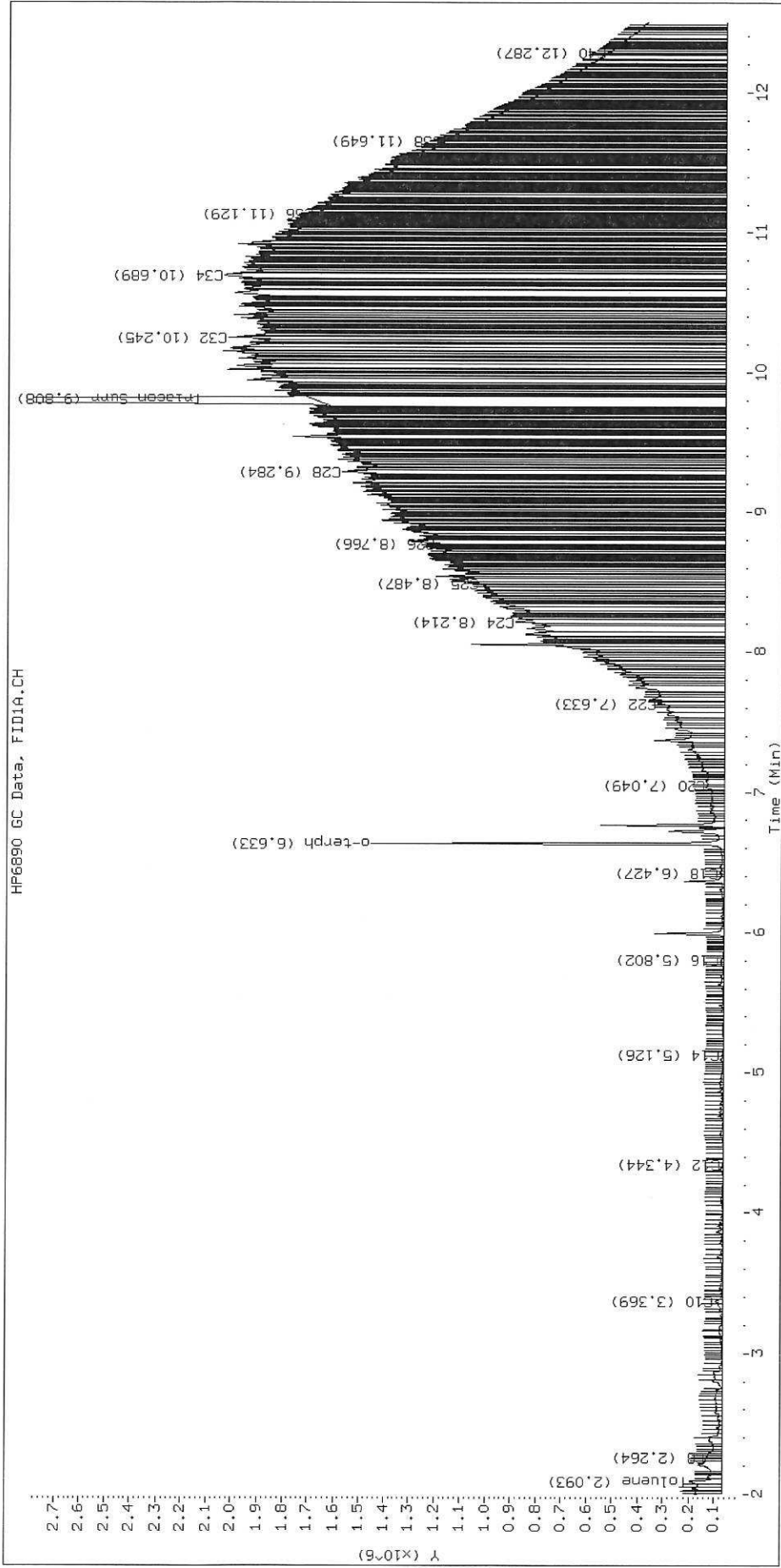
Surrogate	Area	Amount
o-Terphenyl	962768	4.7
Triacontane	20436973	114.8 M

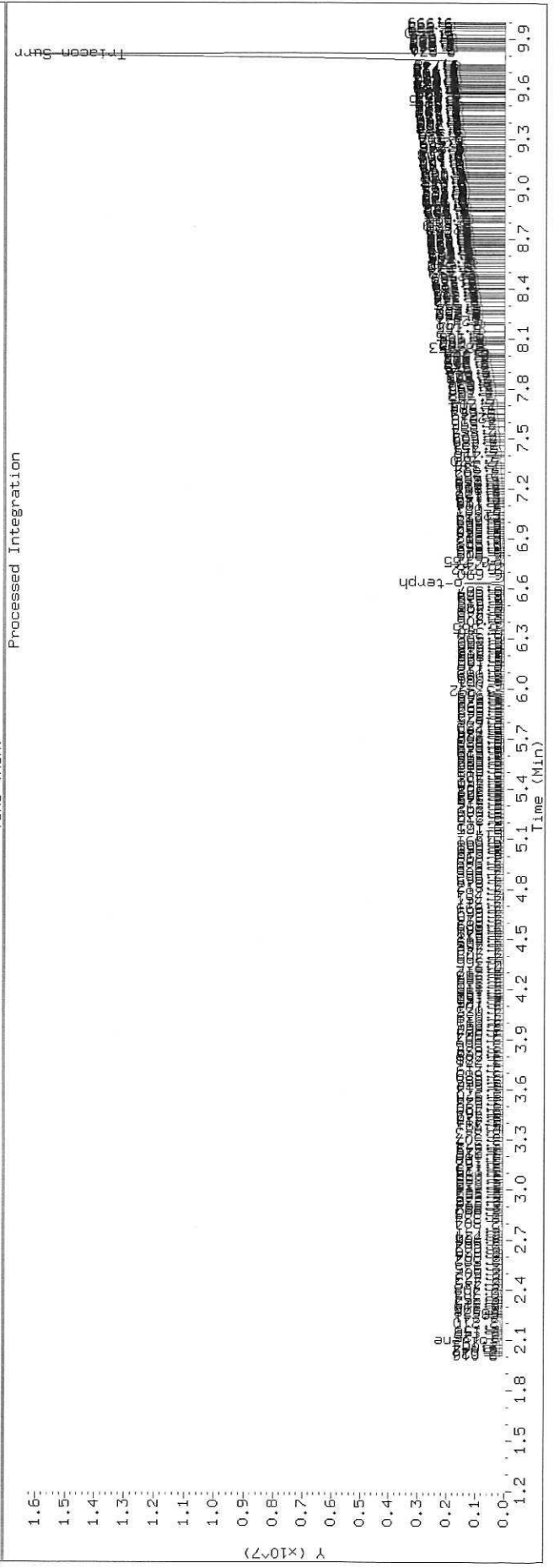
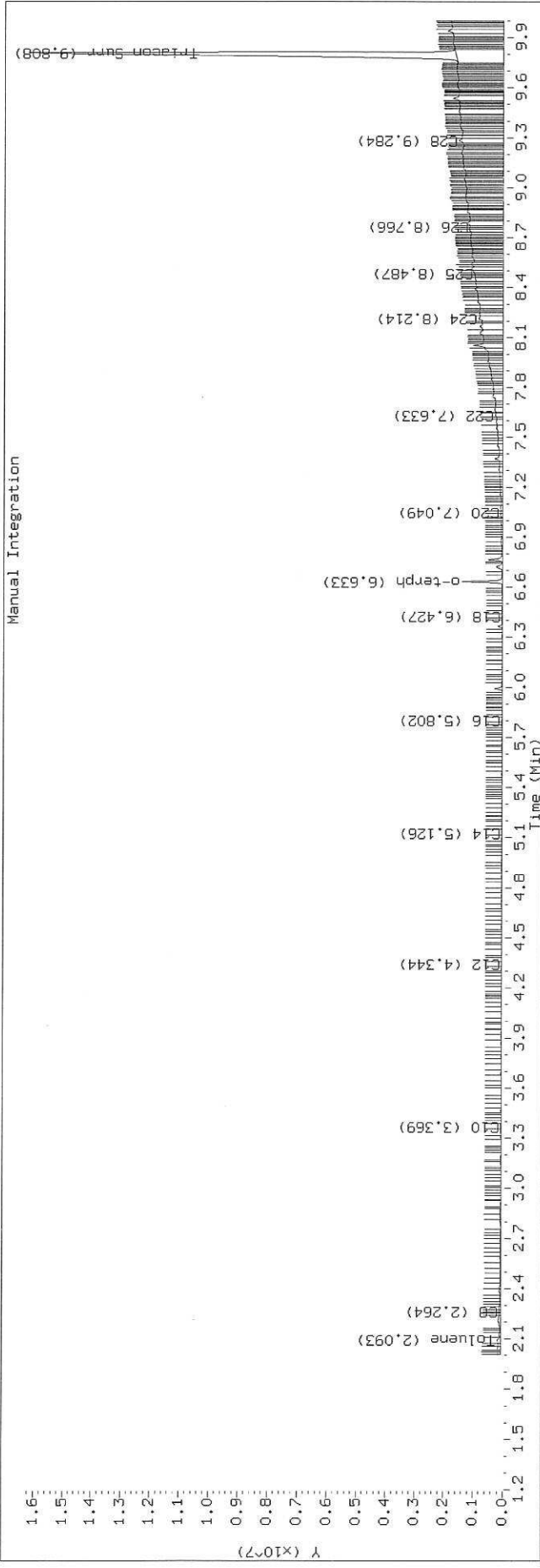
M Indicates the peak was manually integrated

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

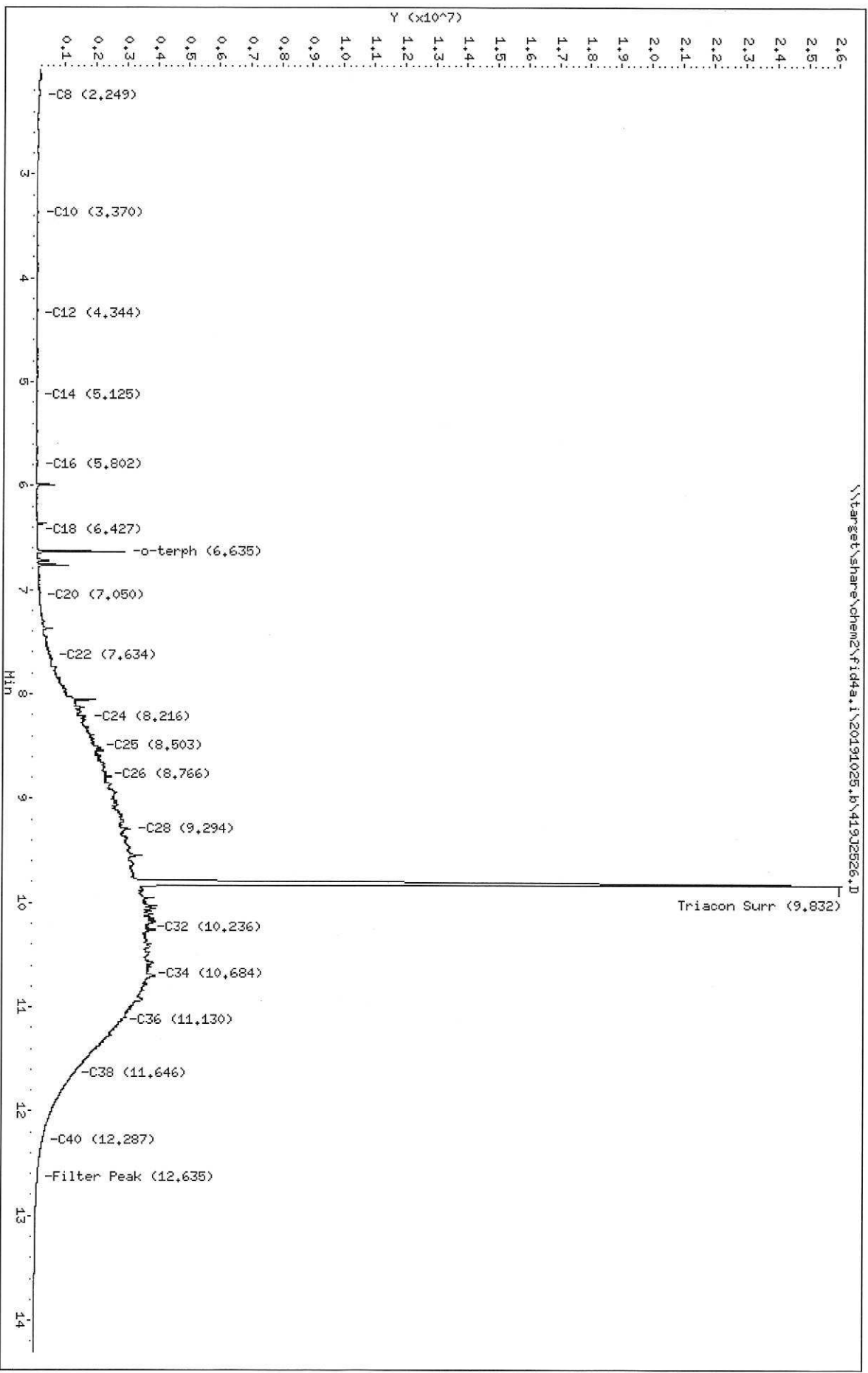




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Date : 25-OCT-2019 20:15
Client ID:
Sample Info: SHJ0406-CALI

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)

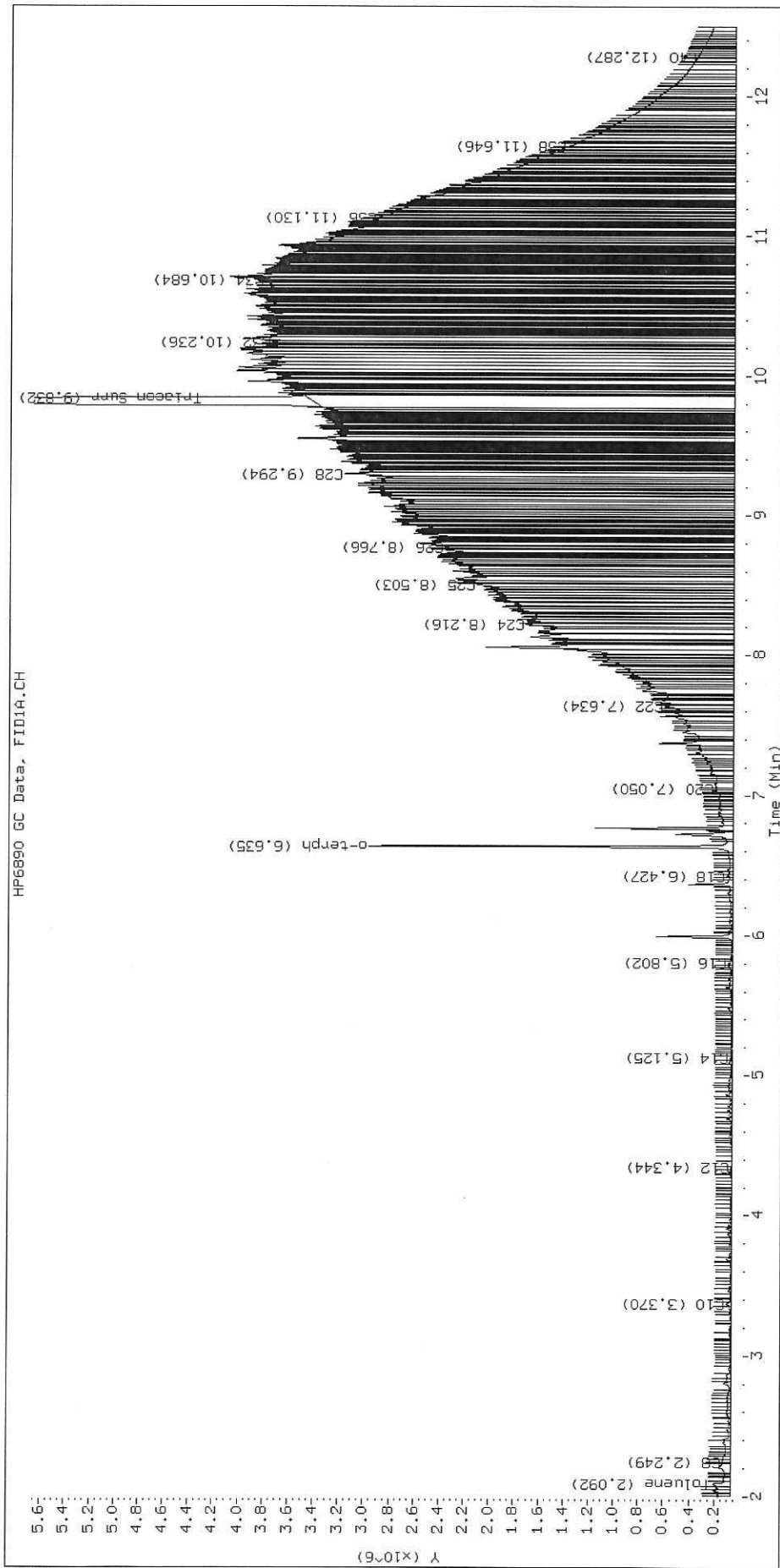
Surrogate	Area	Amount
o-Terphenyl	1975795	9.7
Triacontane	40251878	226.2 M

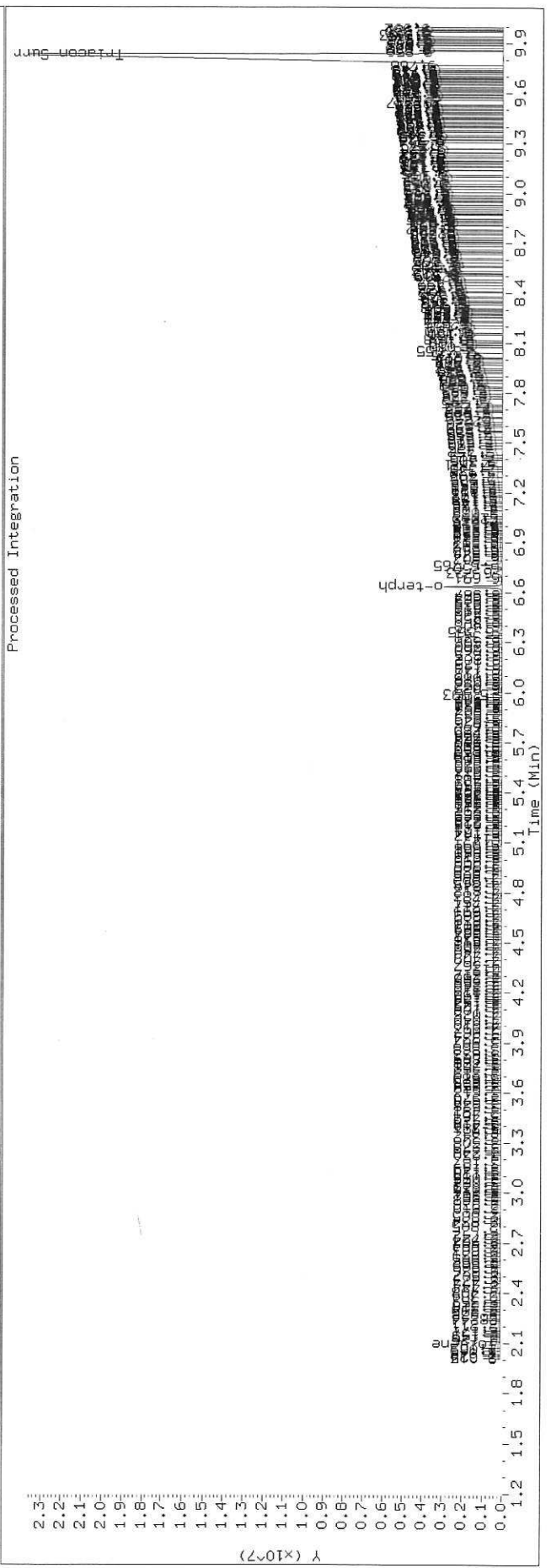
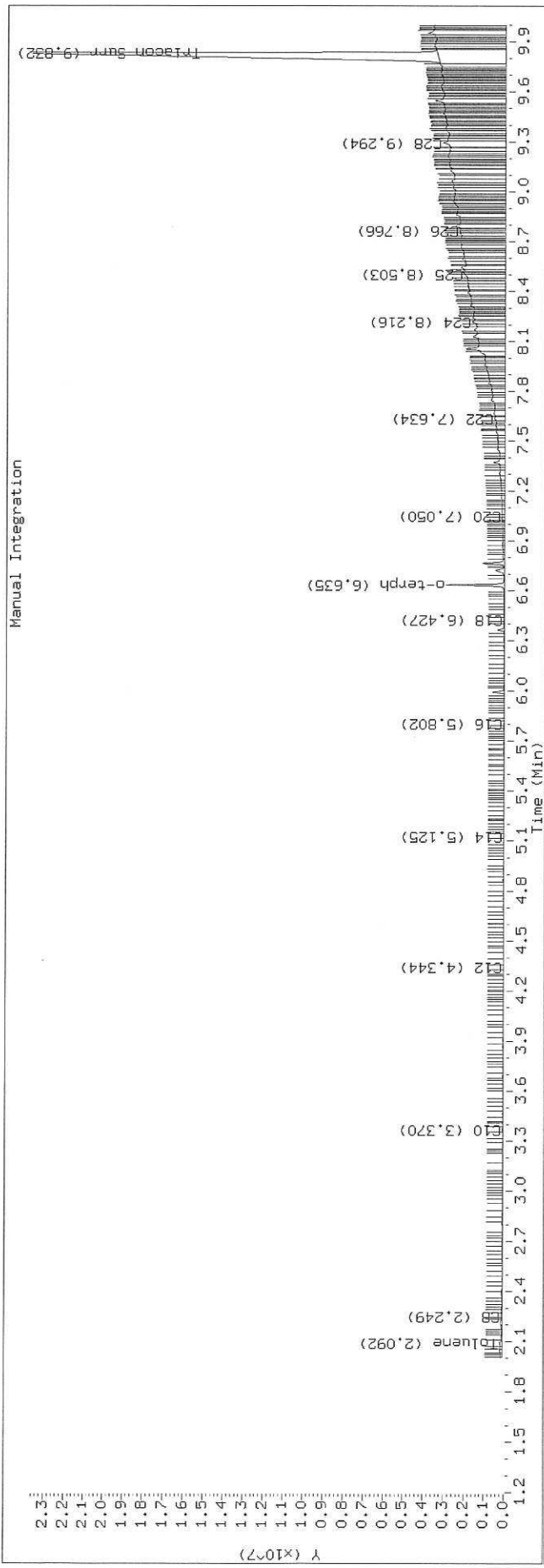
M Indicates the peak was manually integrated

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

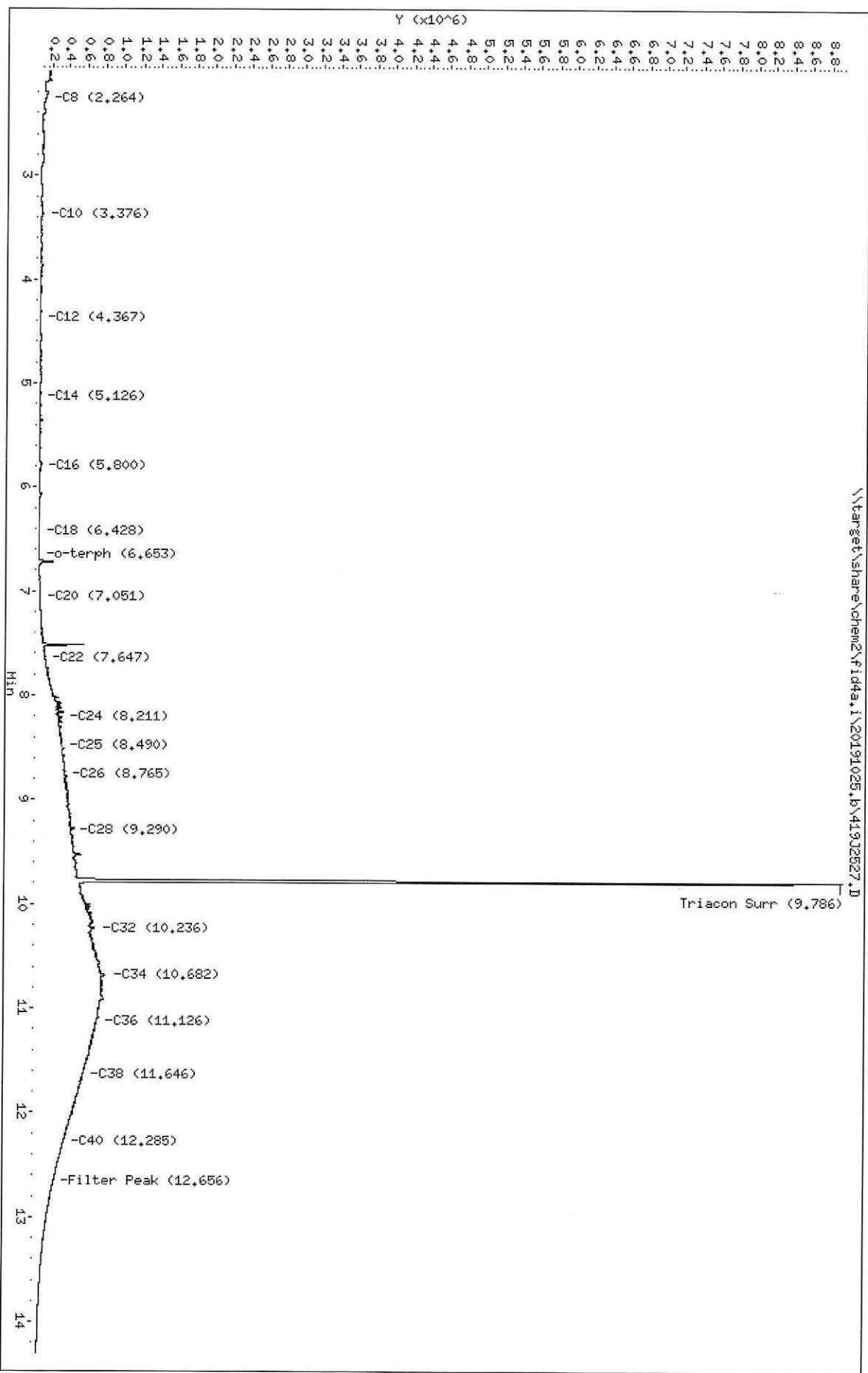




Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2527.D
 Date : 25-OCT-2019 20:35
 Client ID:
 Sample Info: SHJ0406-SCV3

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)

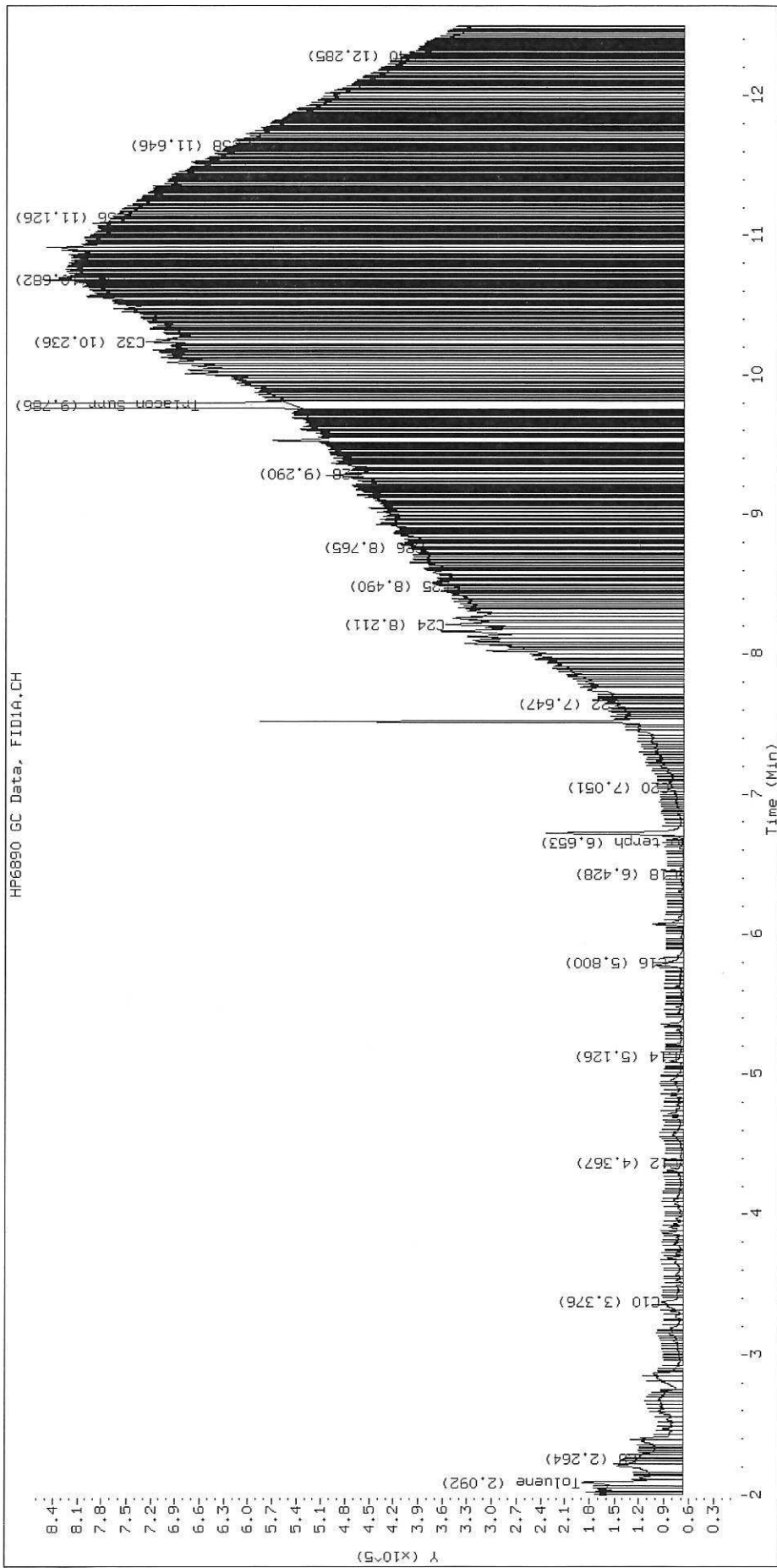
Surrogate	Area	Amount
o-Terphenyl	2570	0.0
Triacontane	7592281	42.7 M

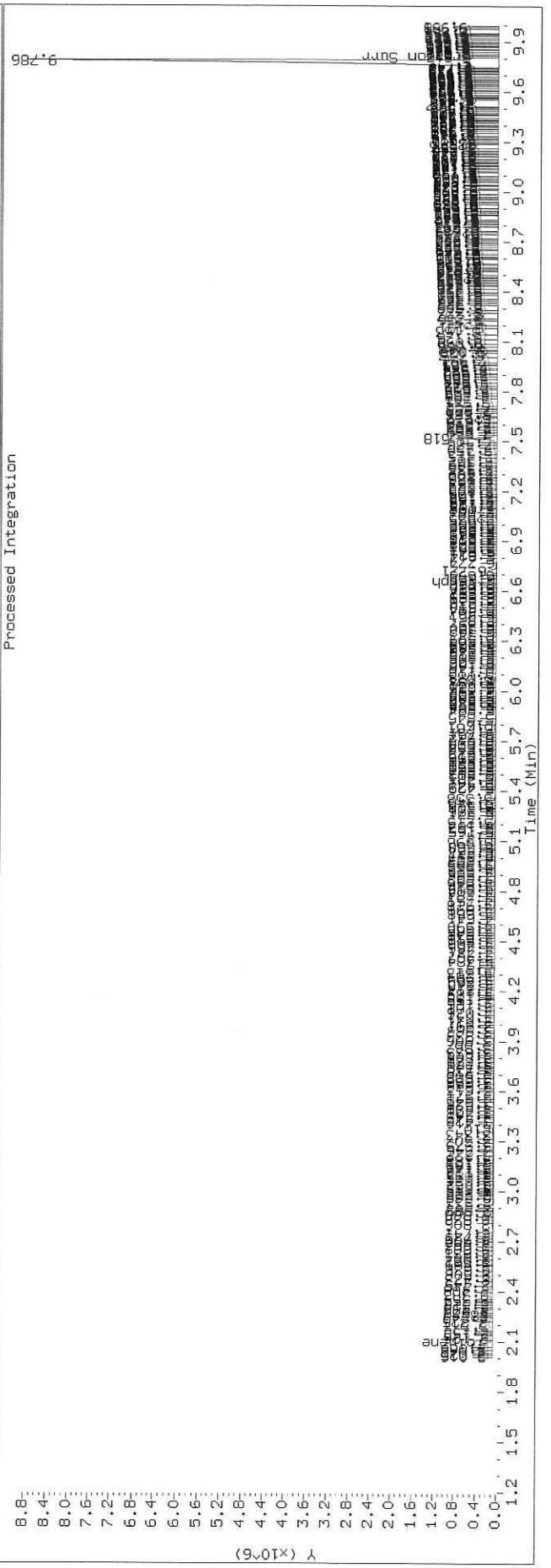
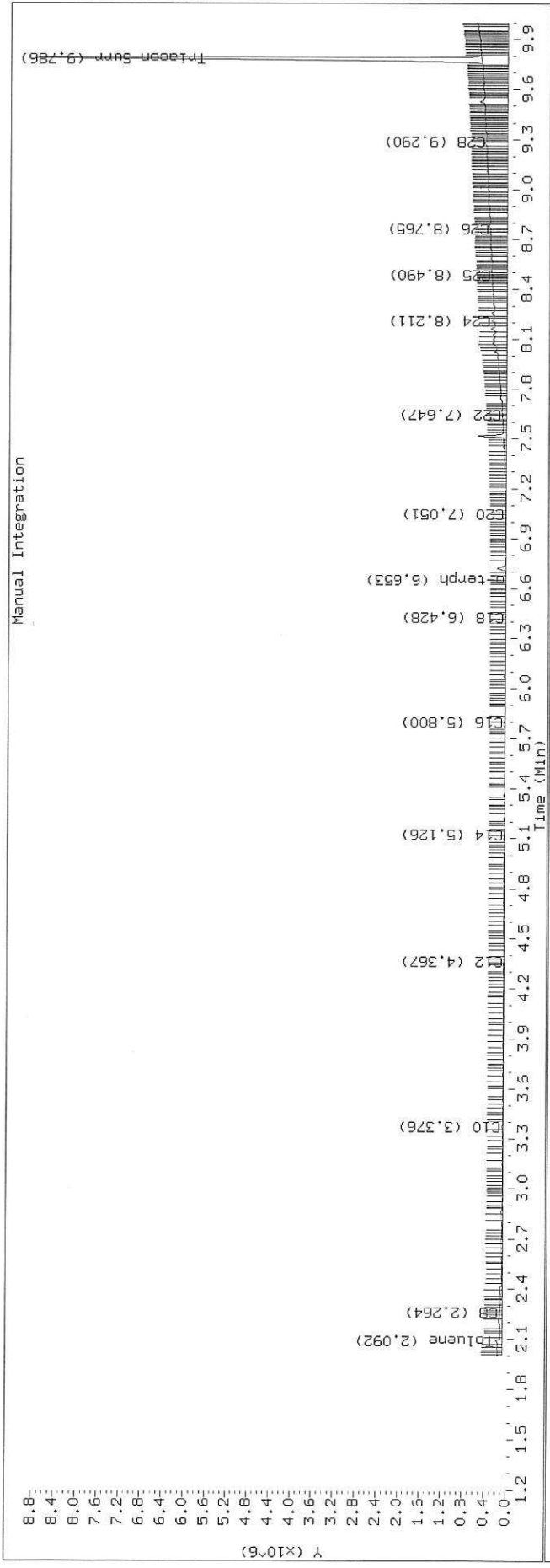
M Indicates the peak was manually integrated

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_bv419k1907.D

Date: 19-NOV-2019 15:10

Client ID:

Sample Info: SHK0260-ICV3

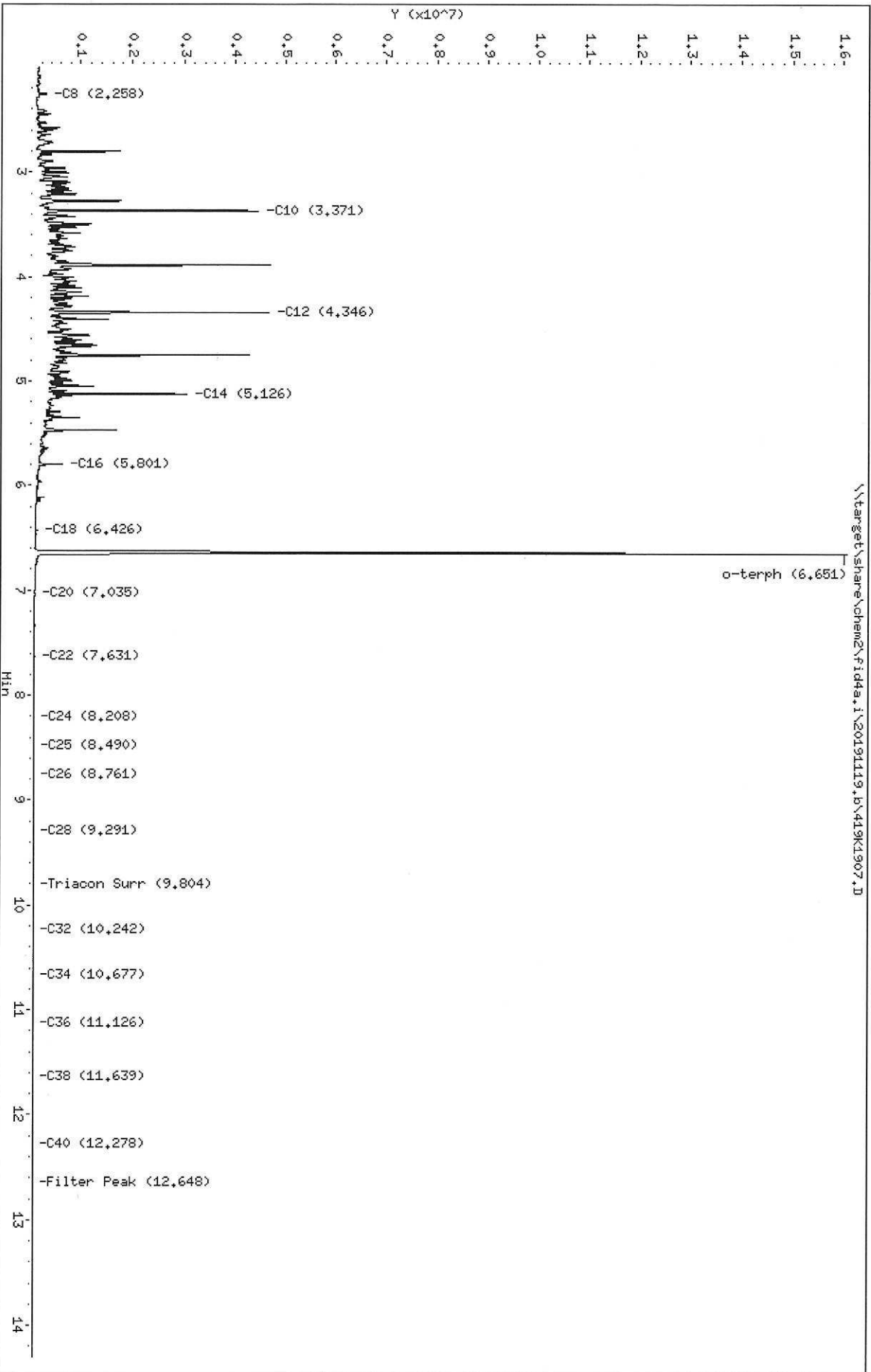
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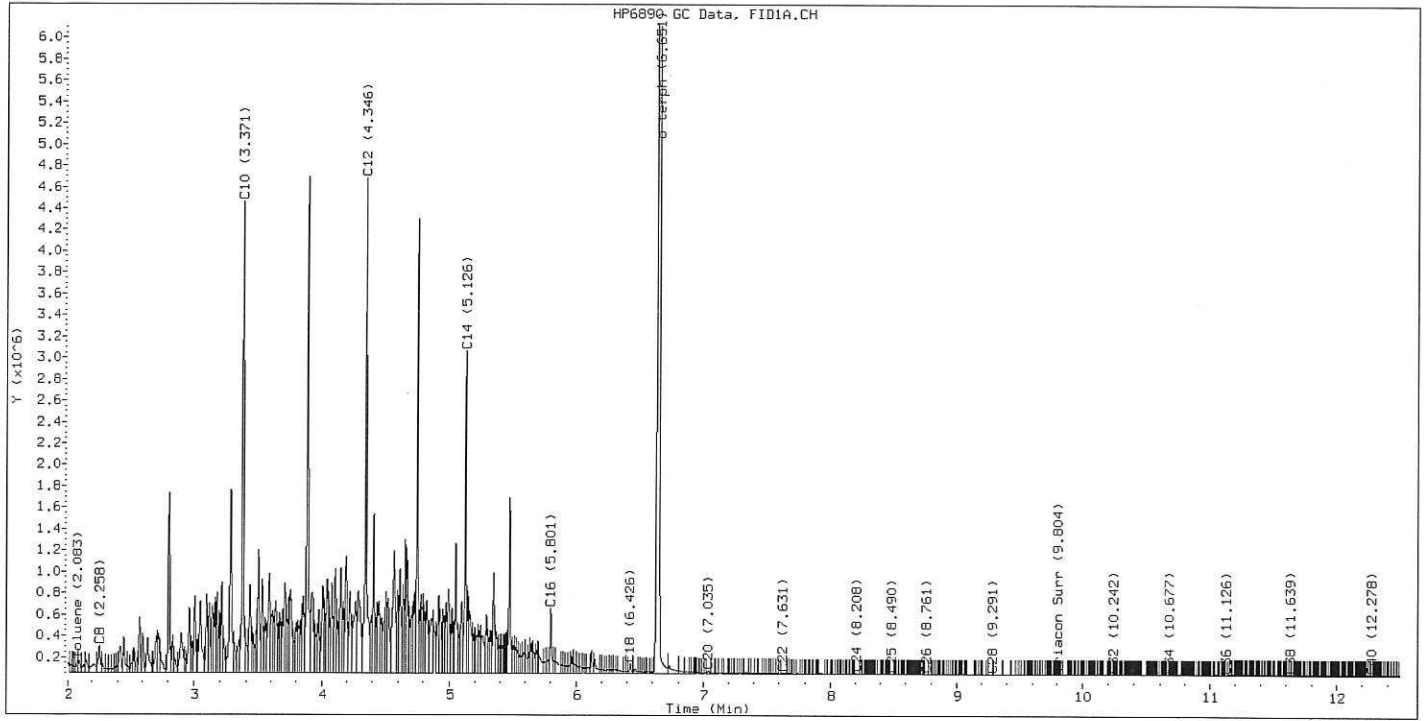
Instrument: fid4a.i

Operator: CT0

Column diameter: 0.25

Page 1







INITIAL CALIBRATION DATA
NWTPH-Dx

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Calibration: DA00022 Instrument: FID4
Calibration Date: 10/25/2019 Column (1): RTX-1

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Diesel Range Organics (C12-C24)	50	182114.3	100	162168.4	250	151655.3	500	152220	1000	153066.8	2500	154795.4
o-Terphenyl	9	207237.8	18	202348.9	45	199293.8	90	202627.8	180	206915.5	450	209787.6



INITIAL CALIBRATION DATA NWTPH-Dx

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
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
Calibration ID: CJ00089

Element Column ID: G004925

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
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GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20191025.b

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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	
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21	25-OCT-2019 18:35	419J2521.D	1	SHJ0406-CALD	
22	25-OCT-2019 18:55	419J2522.D	1	SHJ0406-CALE	
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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

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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
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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

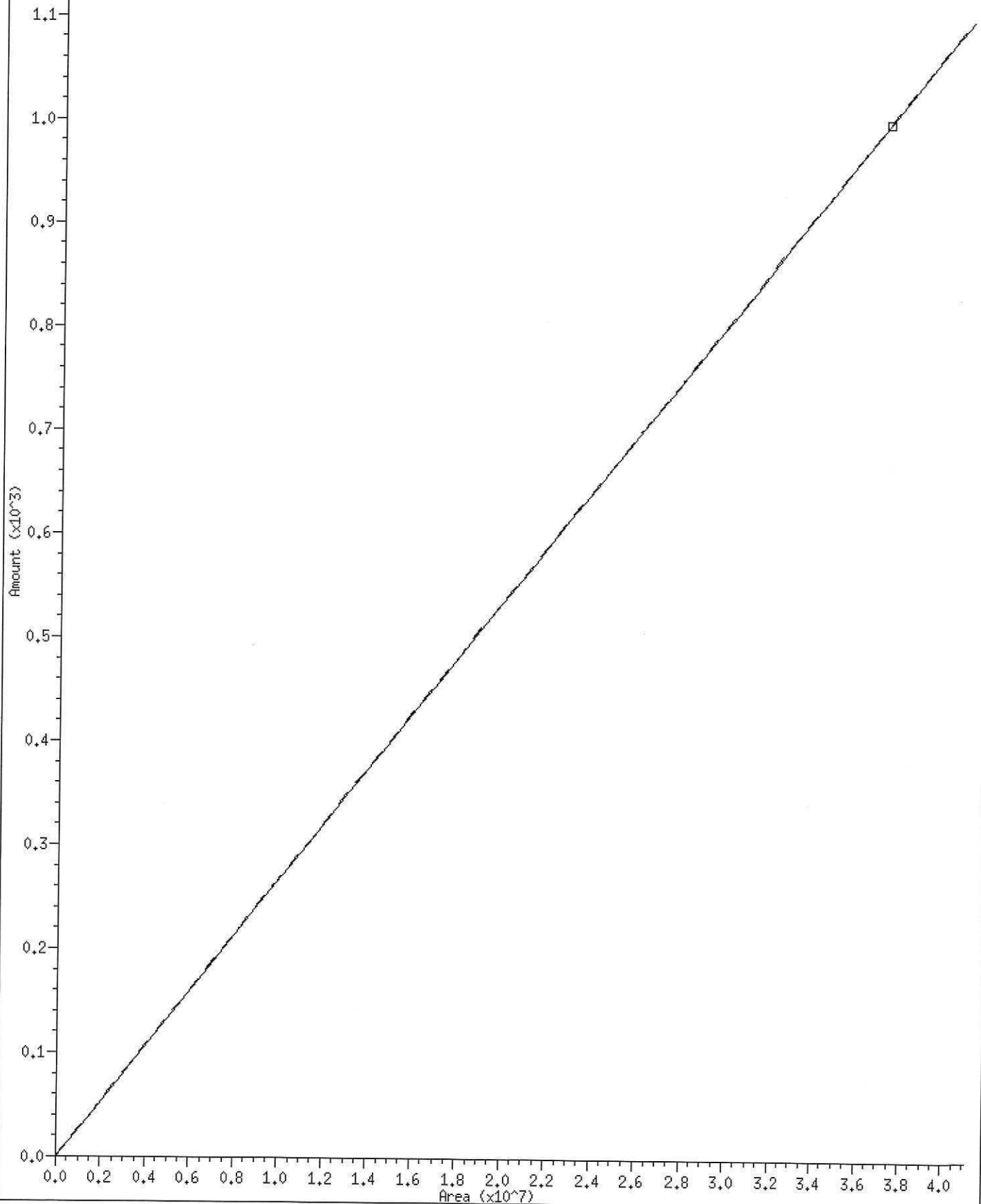
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0017	419J2538.D	19J0373-07	1	Triacon Surr,	
0037	419J2539.D	19J0373-08	1	Triacon Surr,	
0058	419J2540.D	SHJ0406-CCV1	1	o-terph,	
0118	419J2541.D	SHJ0406-CCV2	1	Triacon Surr,	

Security Status Report

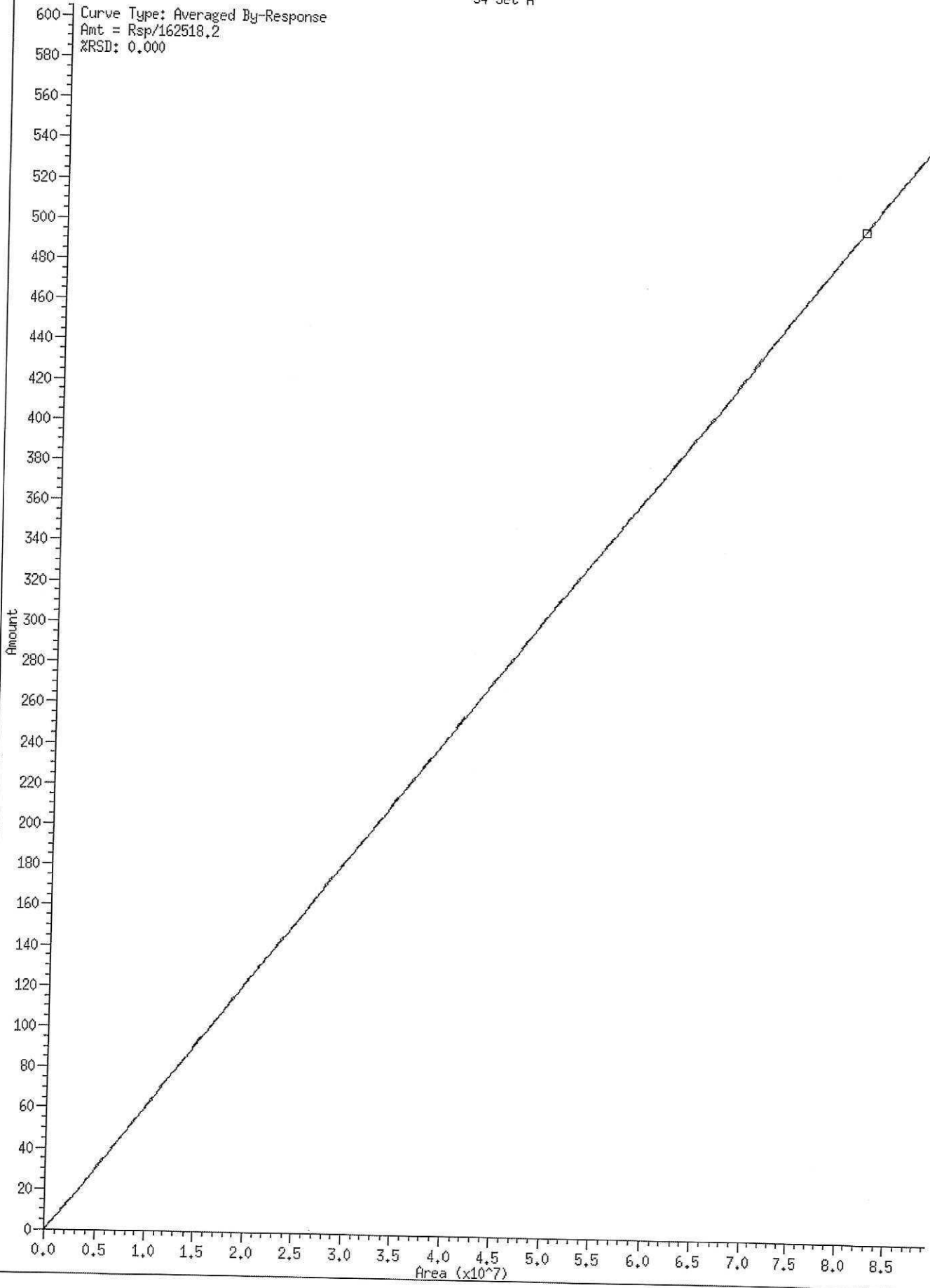
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419J2517.D	Data Locked	j rains, 30-Oct-2019 07:20
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419J2523.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2524.D	Data Locked	j rains, 30-Oct-2019 07:20
419J2525.D	Data Locked	j rains, 30-Oct-2019 07:20
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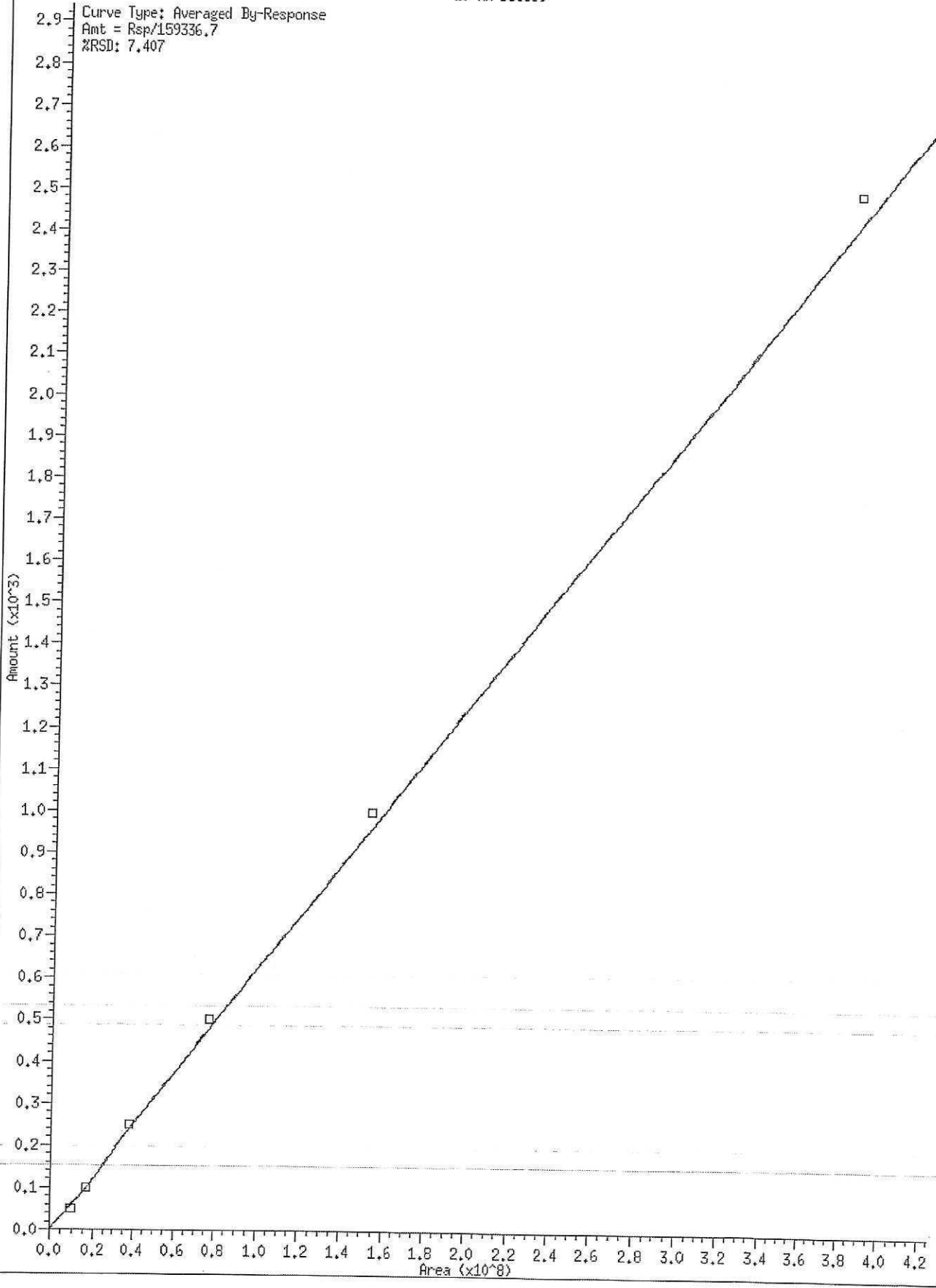


Curve Type: Averaged By-Response
Amt = Resp/162518.2
%RSD: 0.000



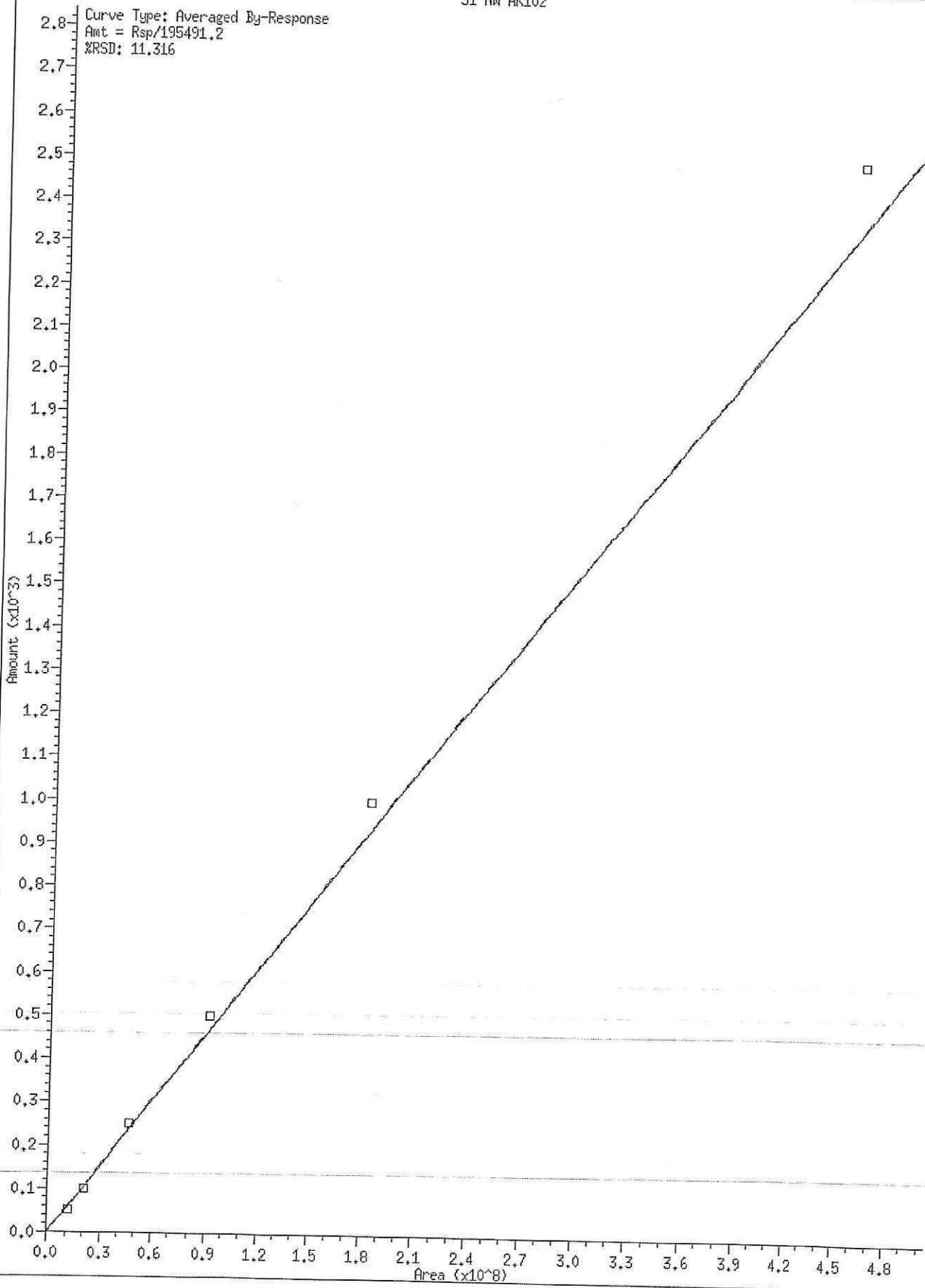
29 NM Diesel

Curve Type: Averaged By-Response
Amt = Rsp/159336.7
%RSD: 7.407



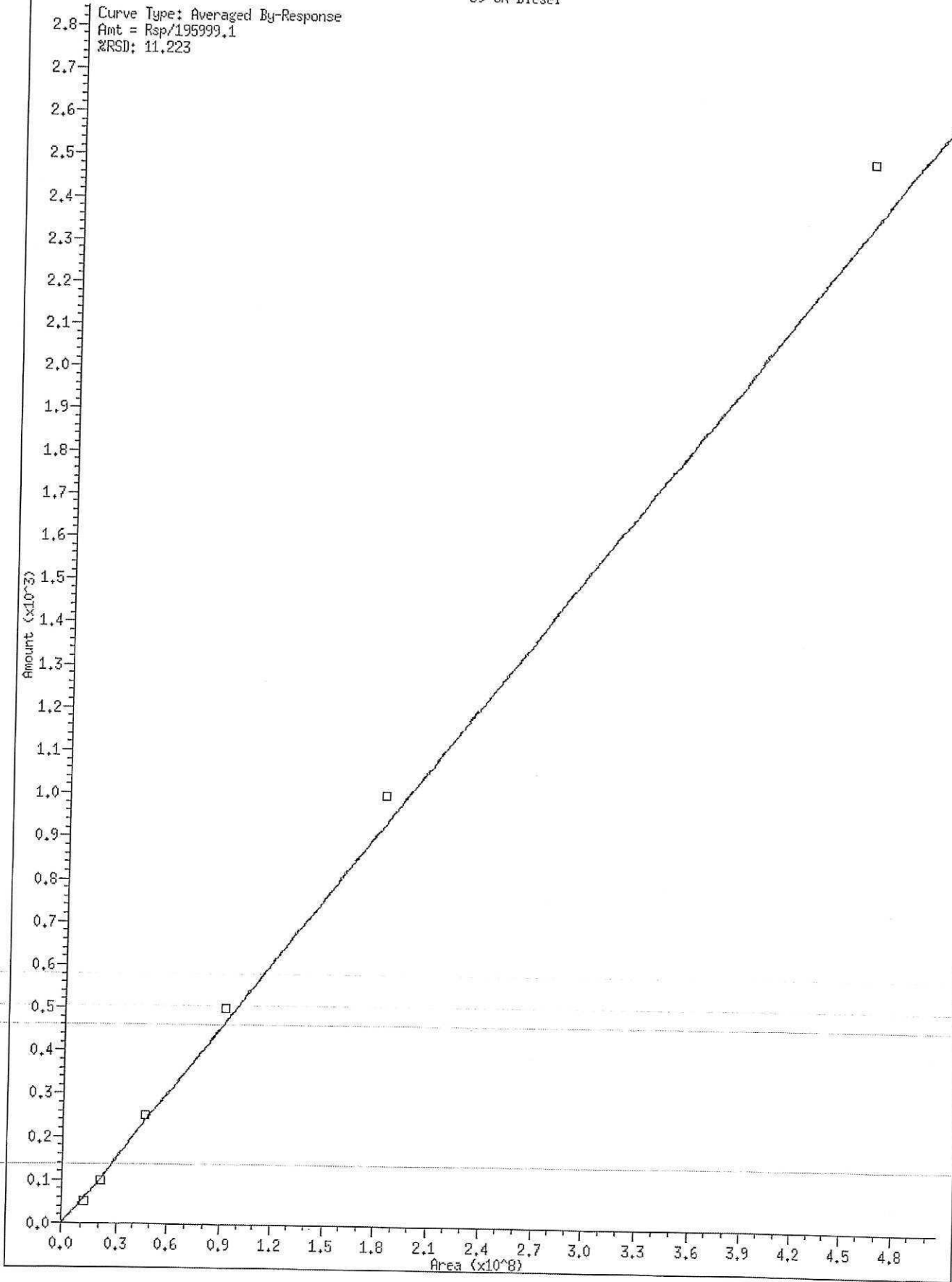
31 NW AK102

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



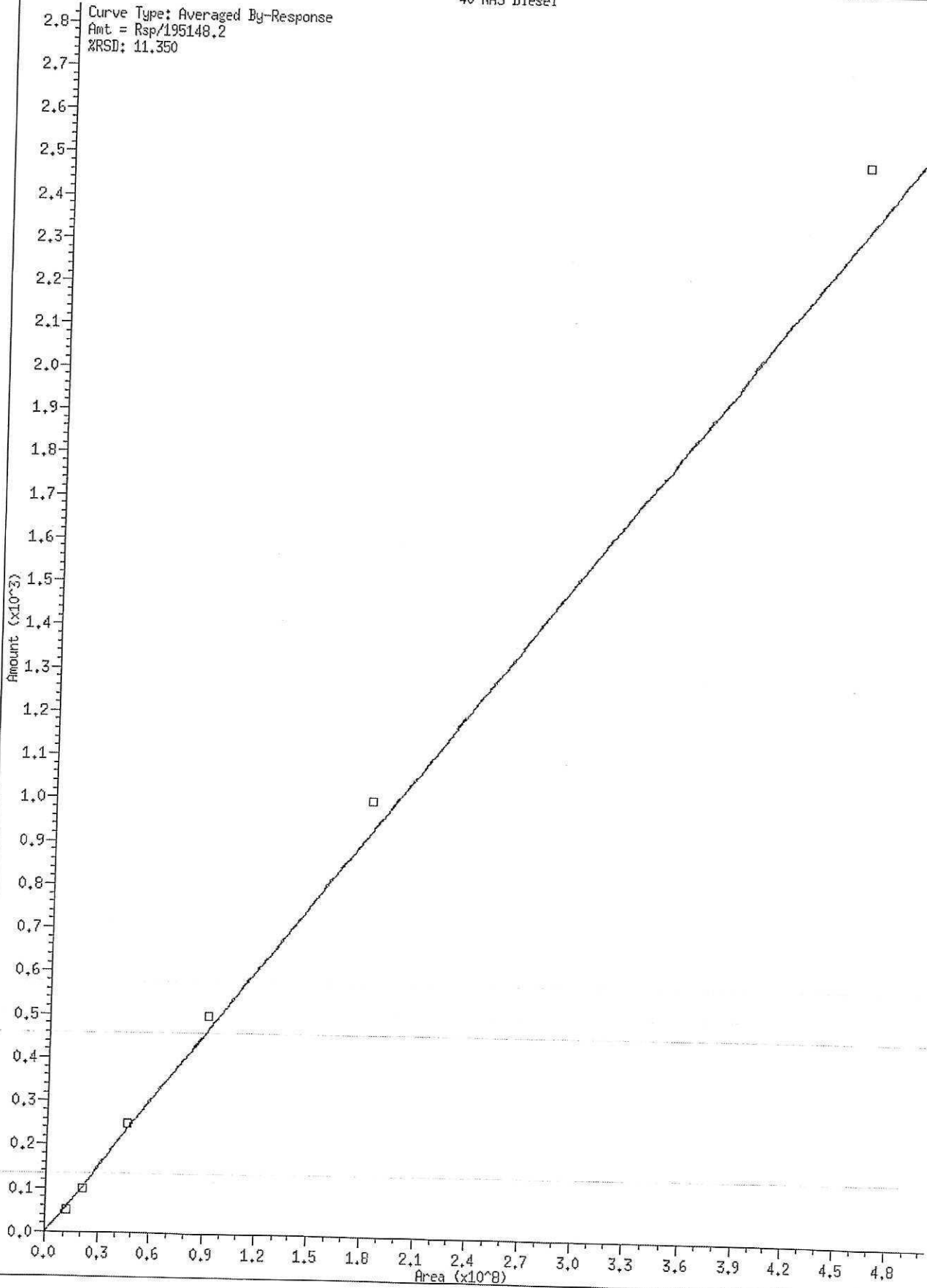
39 OR Diesel

Curve Type: Averaged By-Response
Amt = Rsp/195999,1
%RSD: 11,223



40 MAS Diesel

Curve Type: Averaged By-Response
Amt = Rsp/195148.2
%RSD: 11.350



30 NM Moil

Curve Type: Averaged By-Response

Amt = Rsp/132632.1

%RSD: 2.939

Amount (x10³)

0.0

0.2

0.4

0.6

0.8

1.0

1.2

1.4

1.6

1.8

2.0

2.2

2.4

2.6

2.8

3.0

3.2

3.4

3.6

3.8

4.0

4.2

4.4

4.6

4.8

5.0

5.2

5.4

5.6

5.8

0.0

0.4

0.8

1.2

1.6

2.0

2.4

2.8

3.2

3.6

4.0

4.4

4.8

5.2

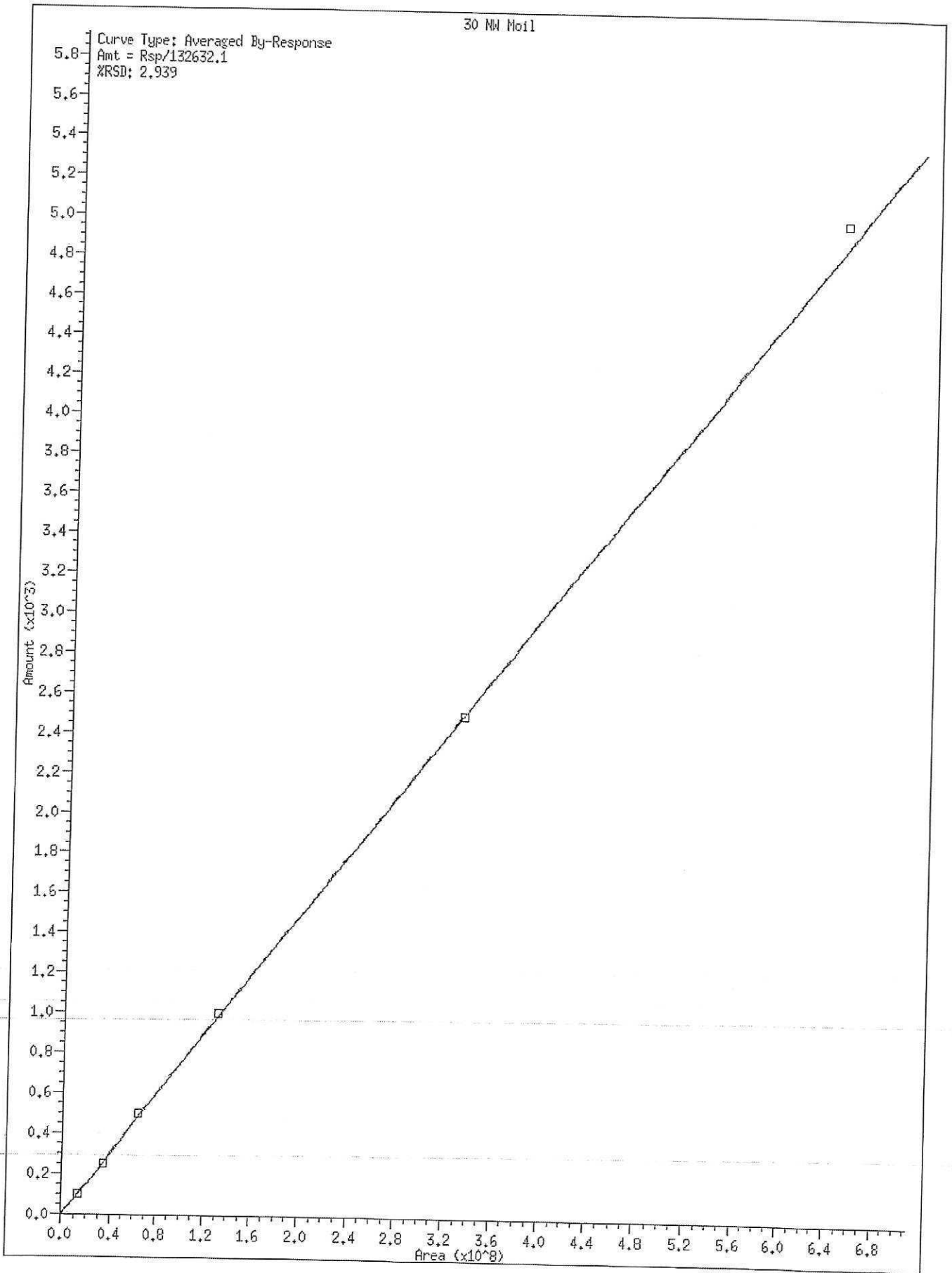
5.6

6.0

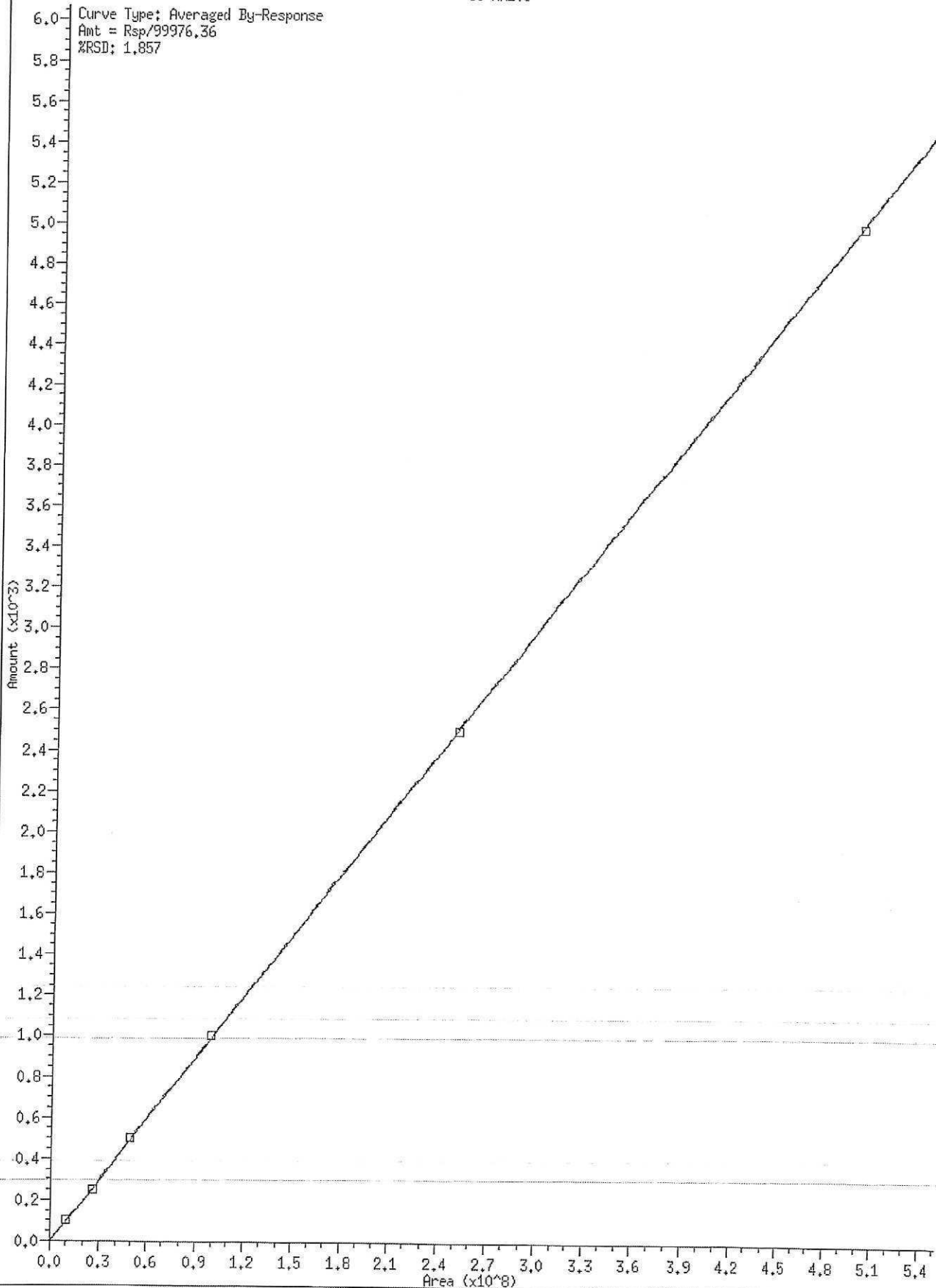
6.4

6.8

Area (x10⁸)

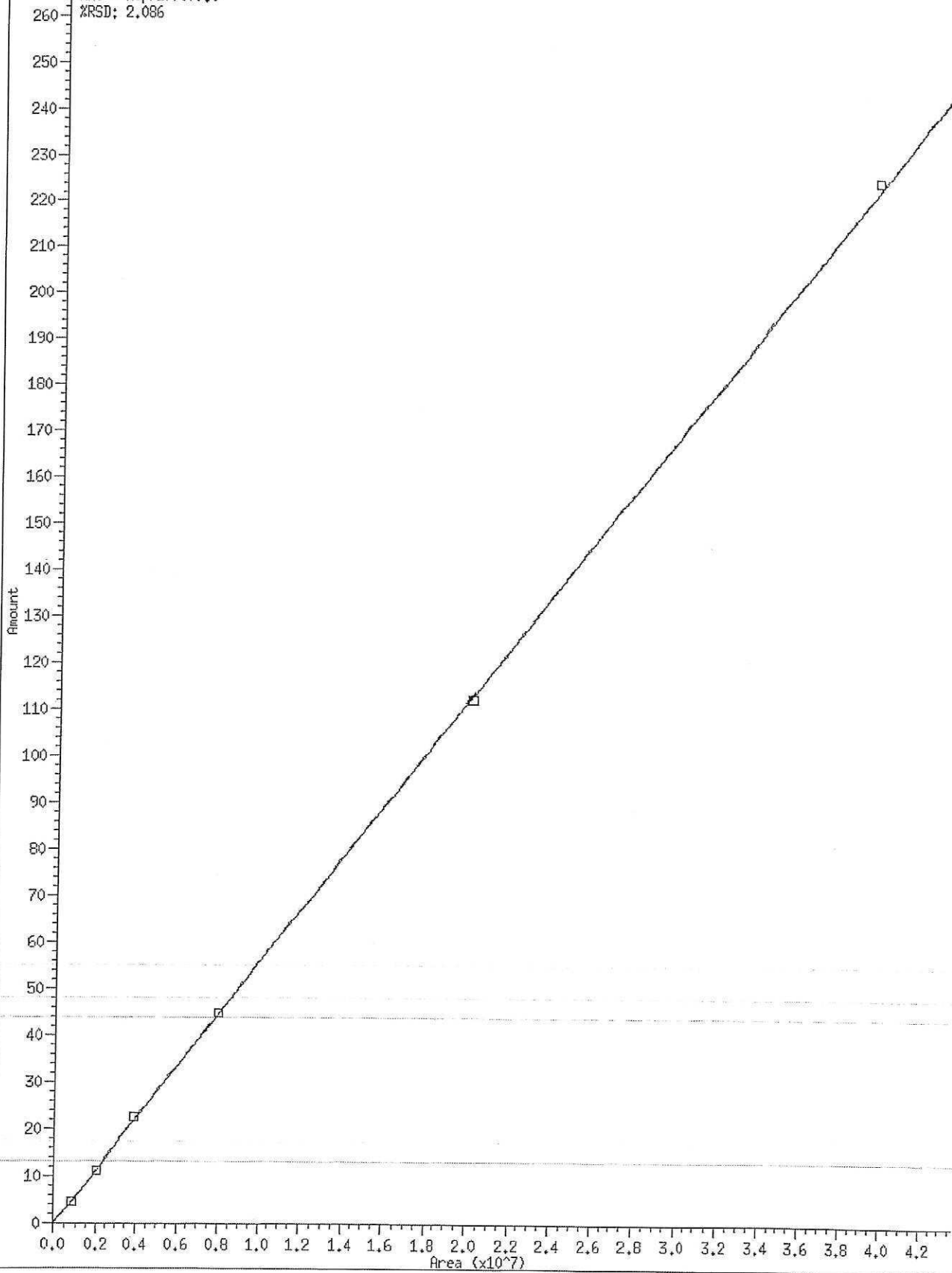


Curve Type: Averaged By-Response
Amt = Rsp/99976,36
%RSD: 1,857



* 15 Triacon Surr

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



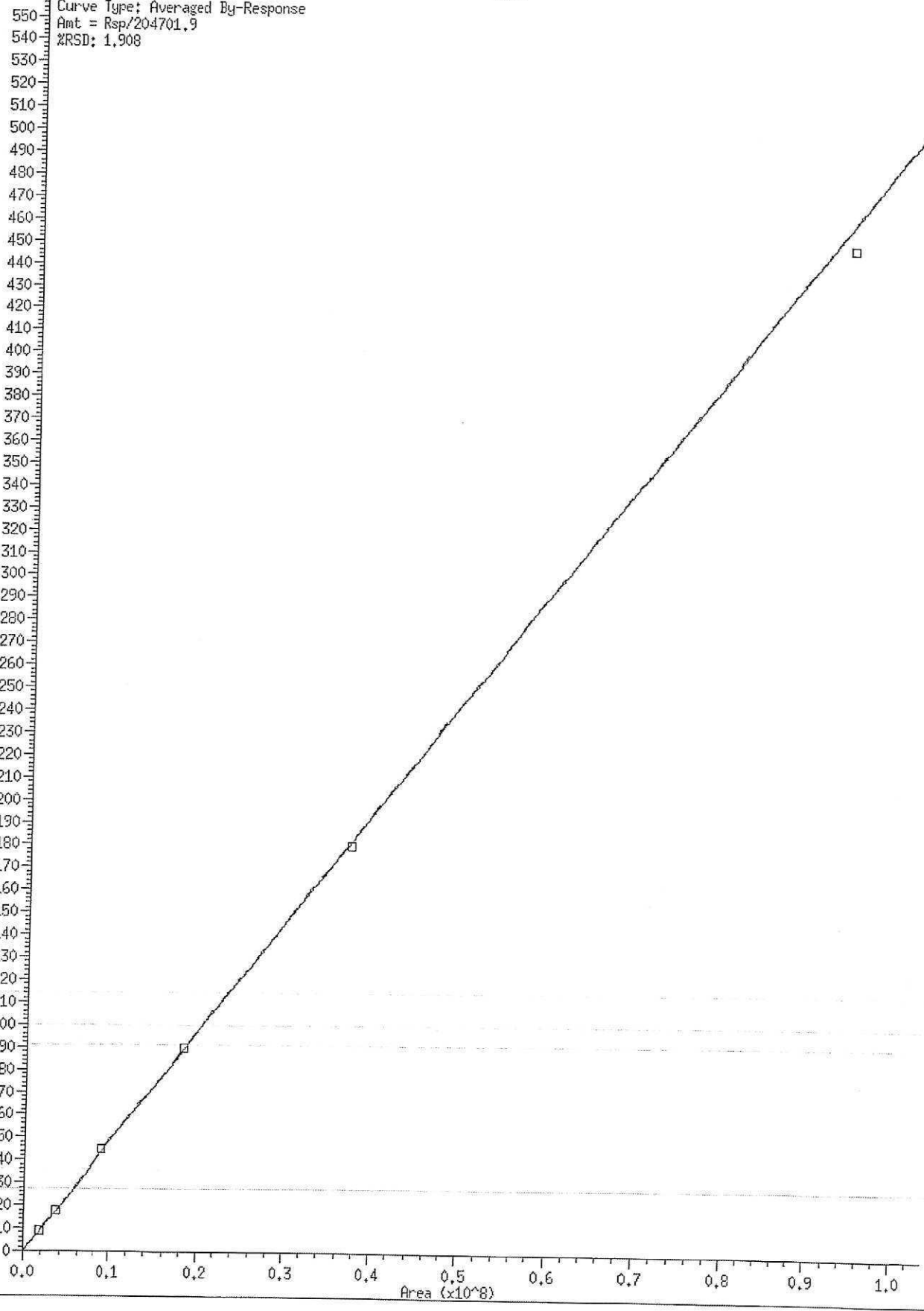
* 8 o-terph

Curve Type: Averaged By-Response

Amt = Rsp/204701,9

%RSD: 1,908

Amount



Area (x10⁸)

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	10.240	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 ACreosote	++++	++++	++++	++++	++++	++++	1.000	0.950-1.050	++++	++++
34 Jet A	++++	++++	++++	++++	++++	++++	1.024	0.974-1.074	++++	++++
30 NW Mol	++++	++++	++++	++++	++++	++++	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: _____

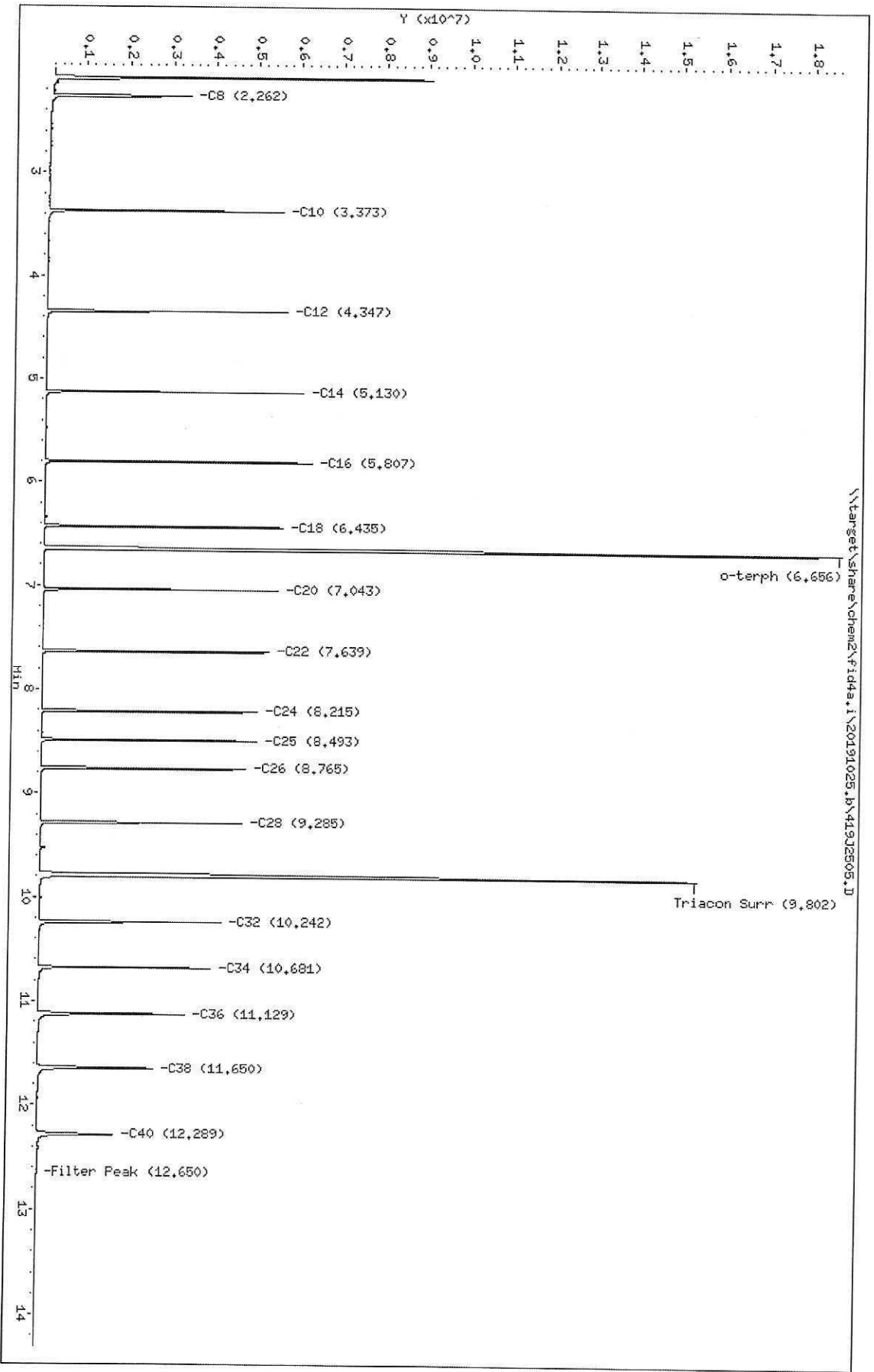
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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

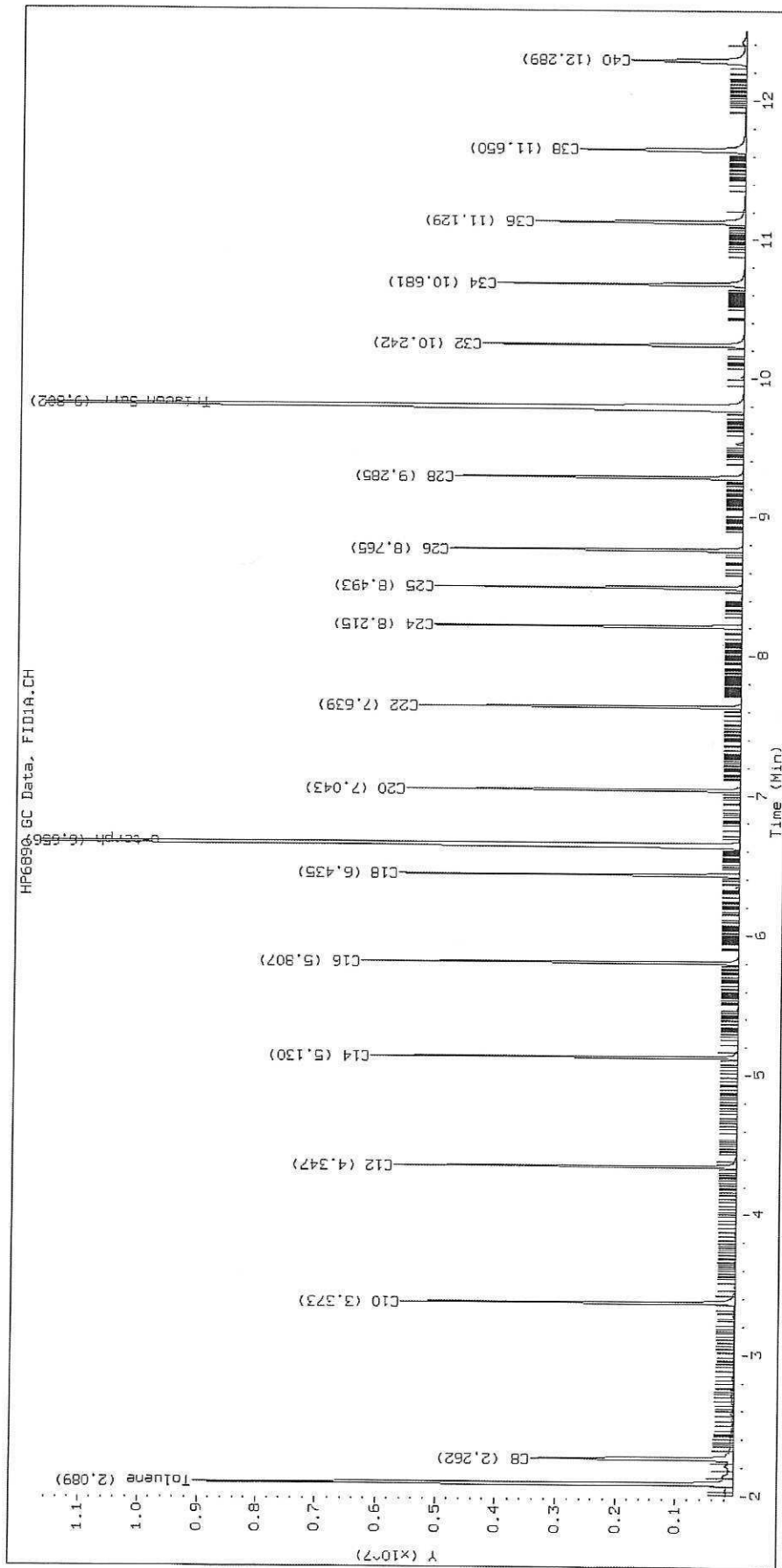
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	20337624	99.4
Triacantane	21196653	119.1

M Indicates the peak was manually integrated

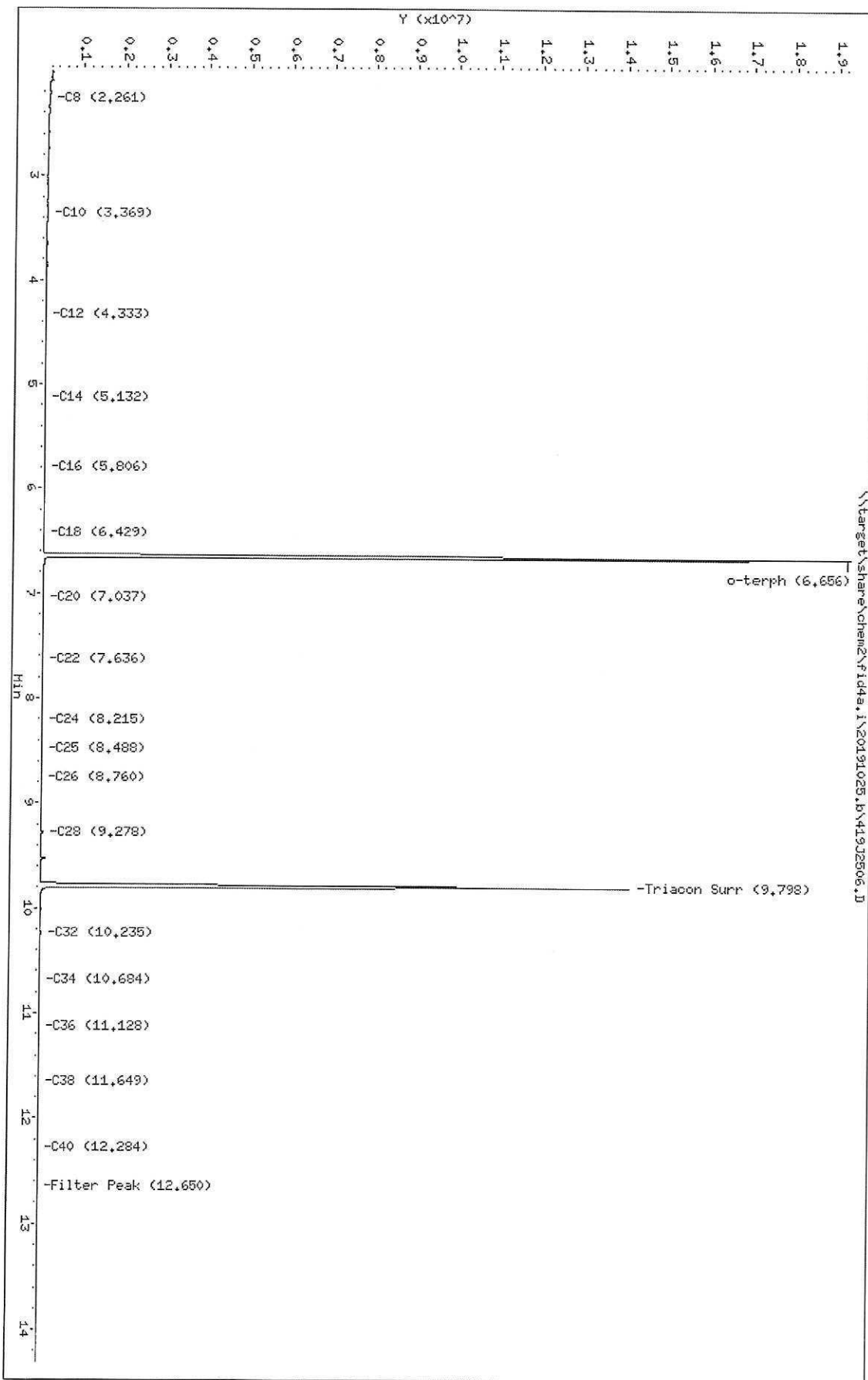
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8	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
Triacotane	17993211	101.1

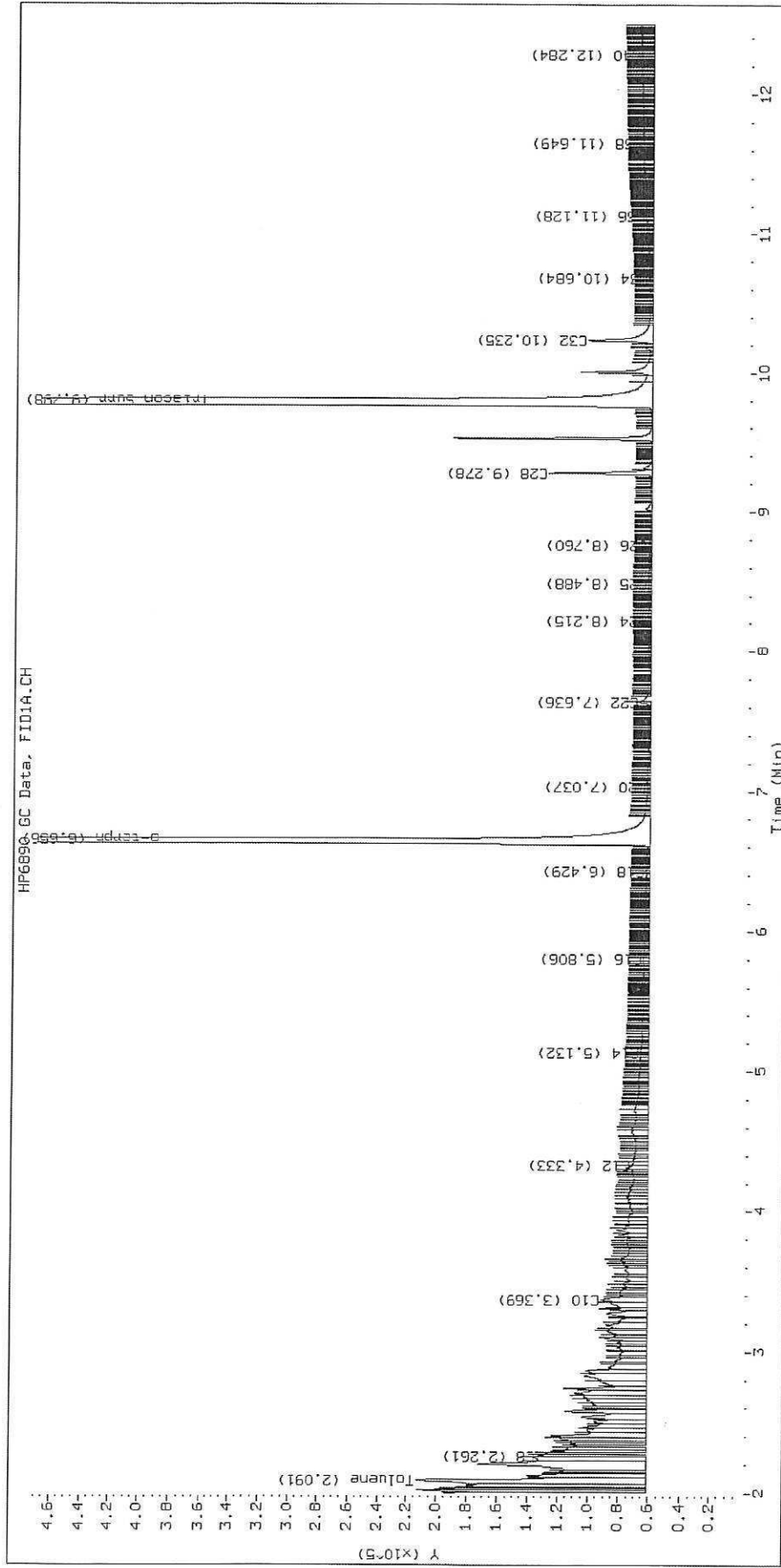
M Indicates the peak was manually integrated

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

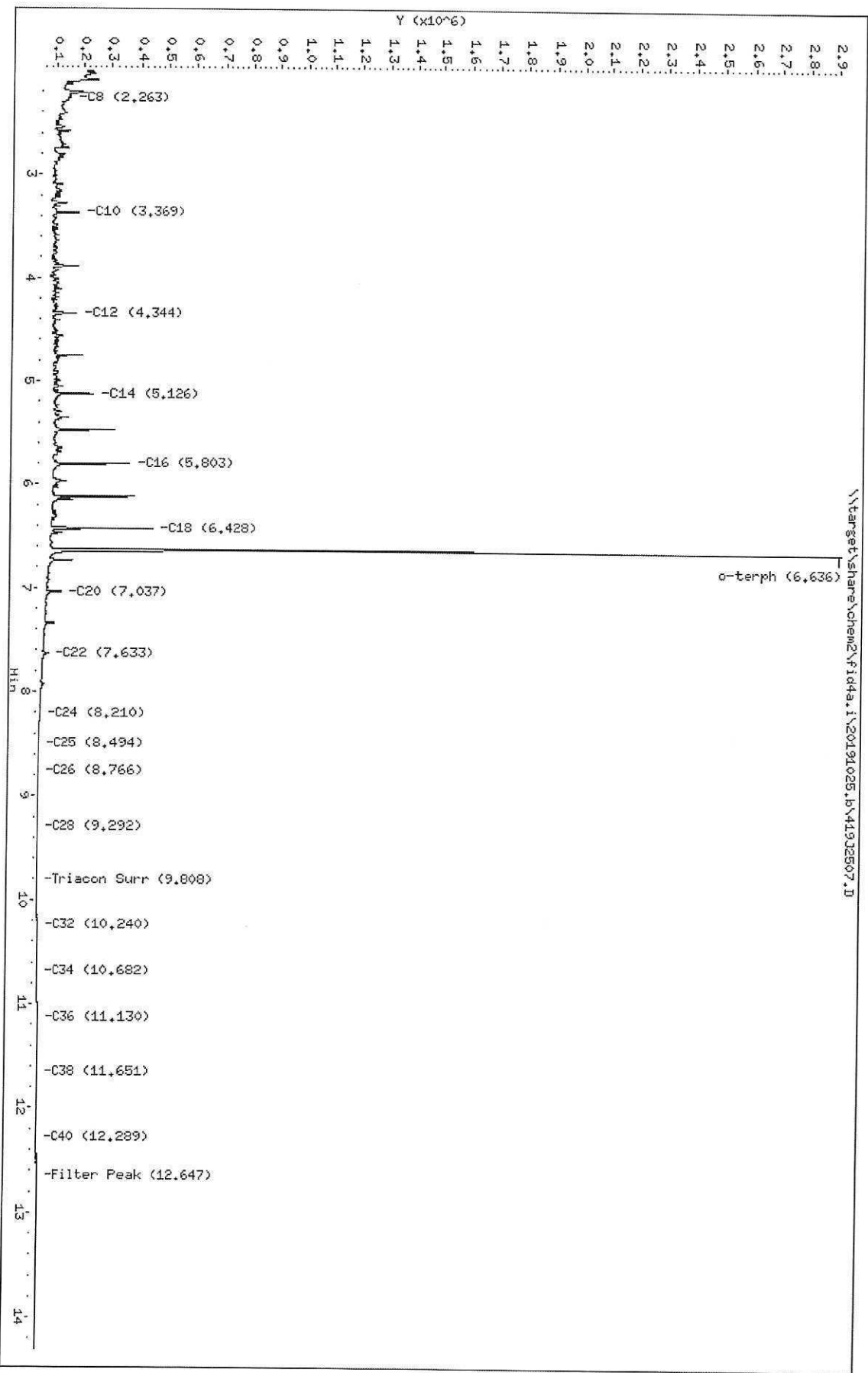
SHJ0406-IBL2

HP6896 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

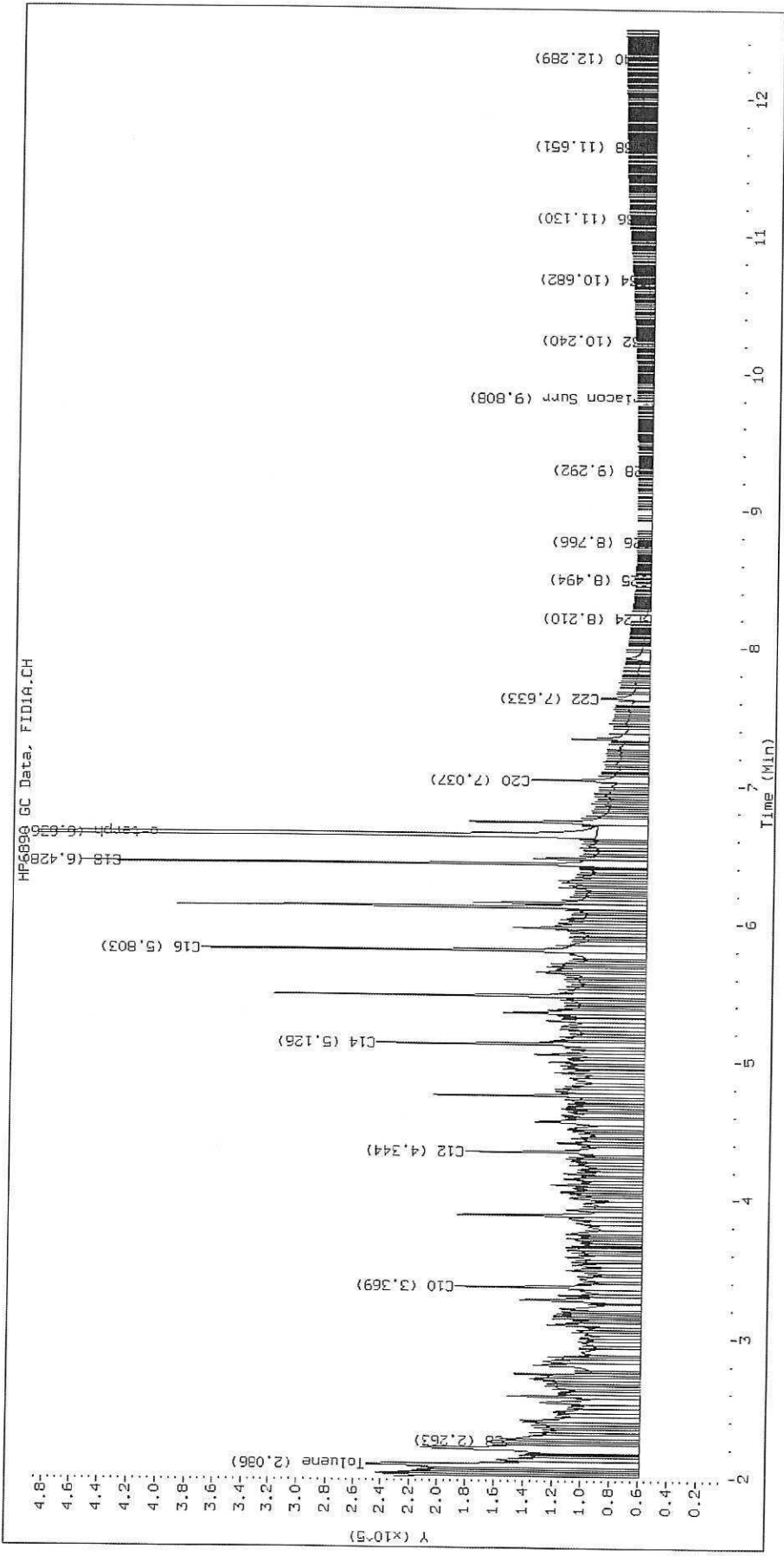
Range Times: NW Diesel (4.347 - 8.215) AK102 (3.37 - 8.49) Jet A (3.37 - 6.43)
NW M.Oil (8.21 - 11.65) AK103 (8.49 - 11.13) OR Diesel (3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	1865140	9.1
Triacantane	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

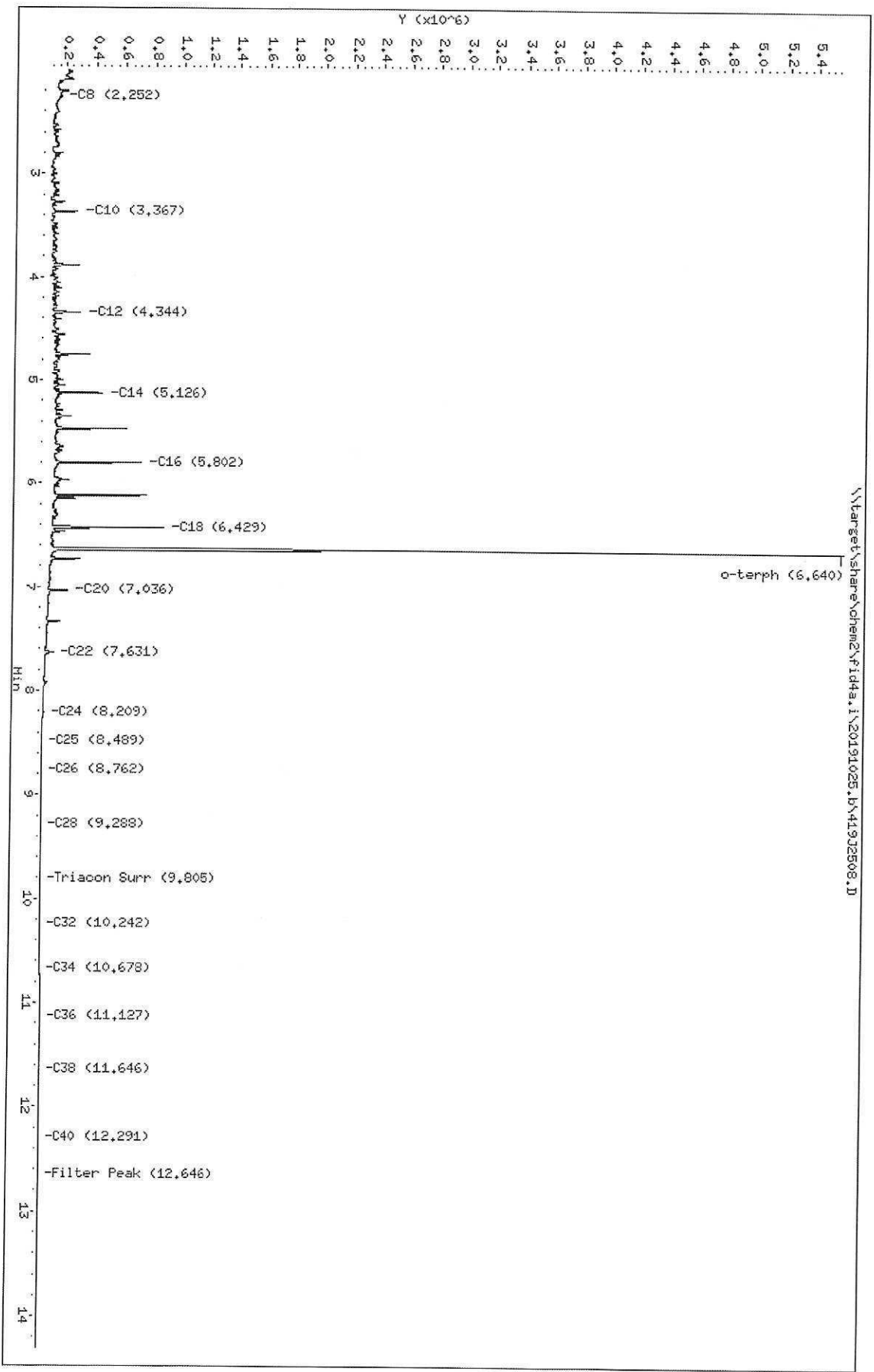
Datafile: FID4A, 20191025.b/419J2507.D SHJ0406-CALI



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

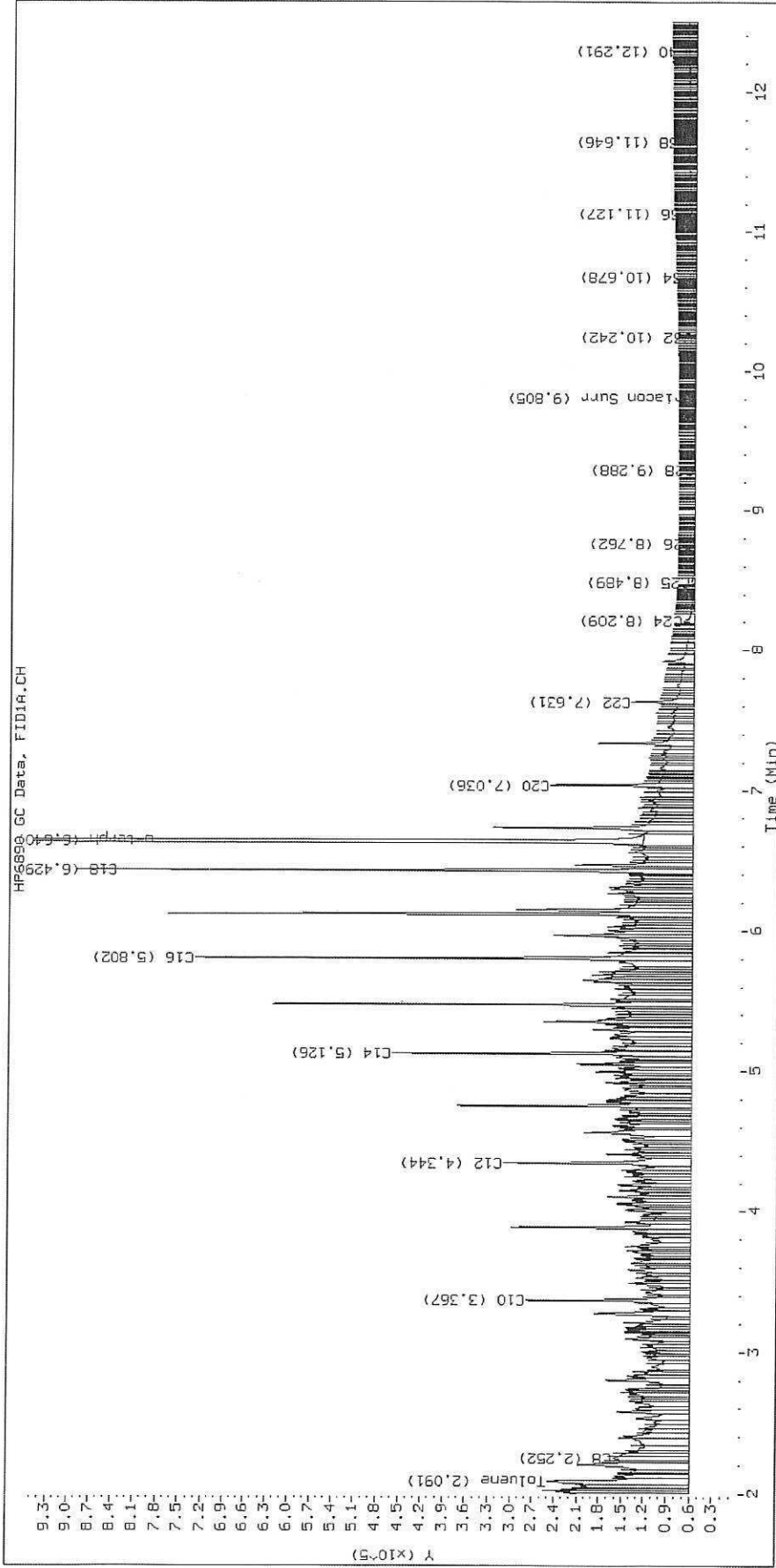
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

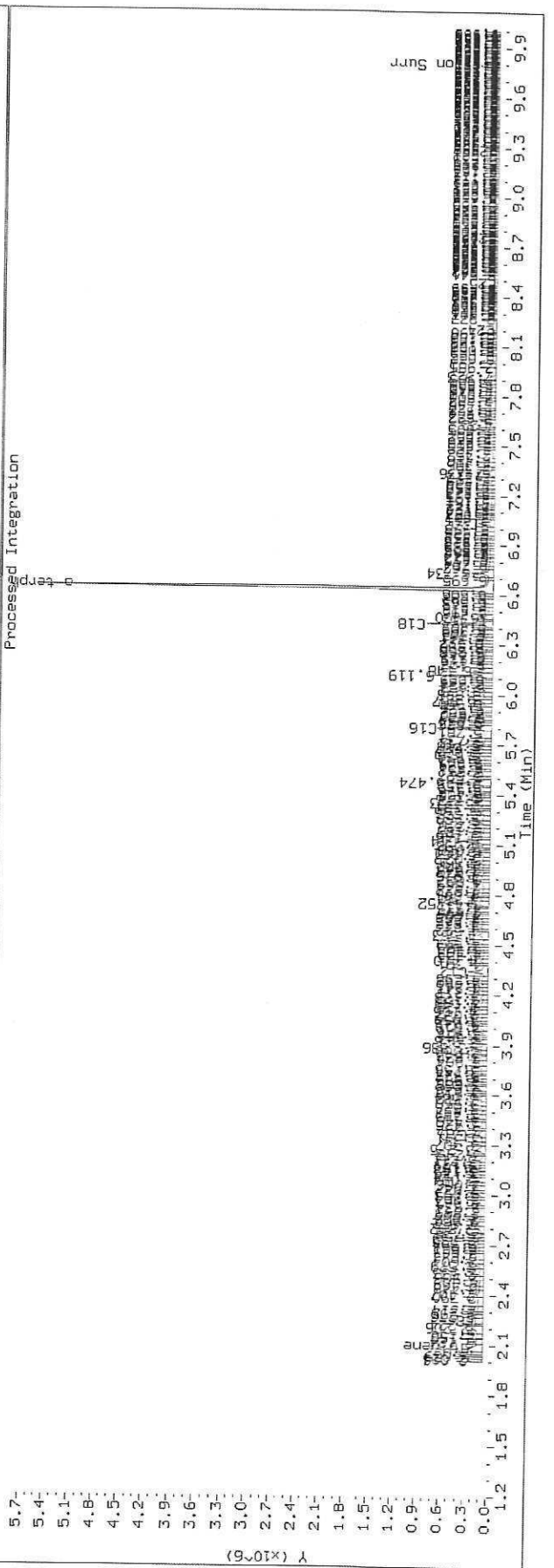
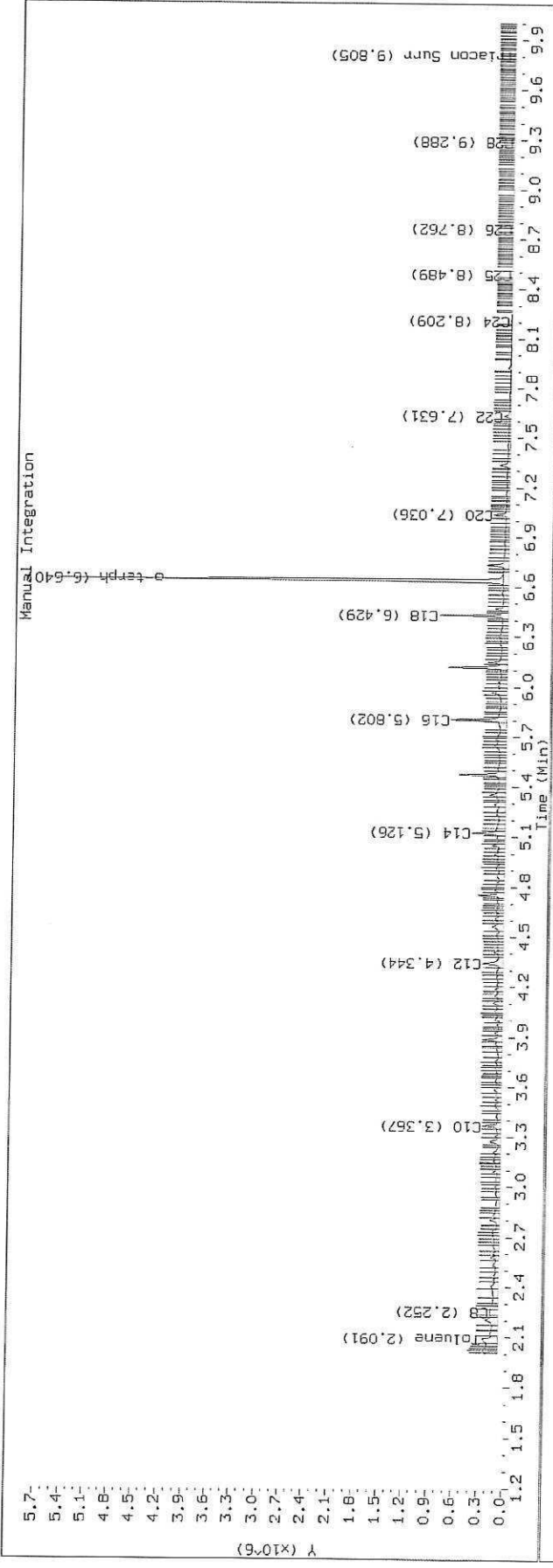
M Indicates the peak was manually integrated

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

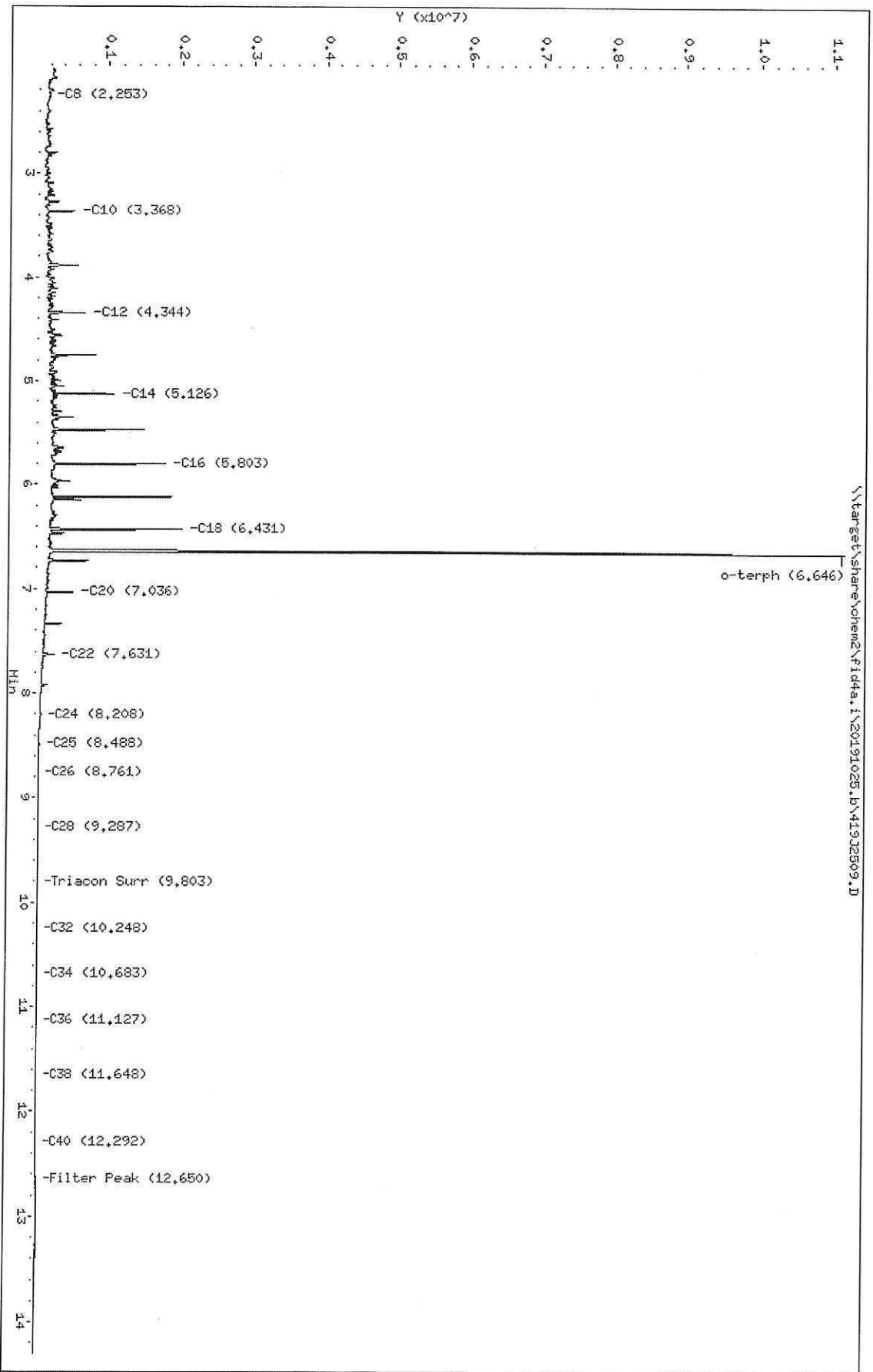


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2508.D Injection: 25-OCT-2019 14:12
 Lab ID: SHJ0406-CAL2



Data File: \\target\share\chem2\Fid4a.1\20191025.B\419J2509.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

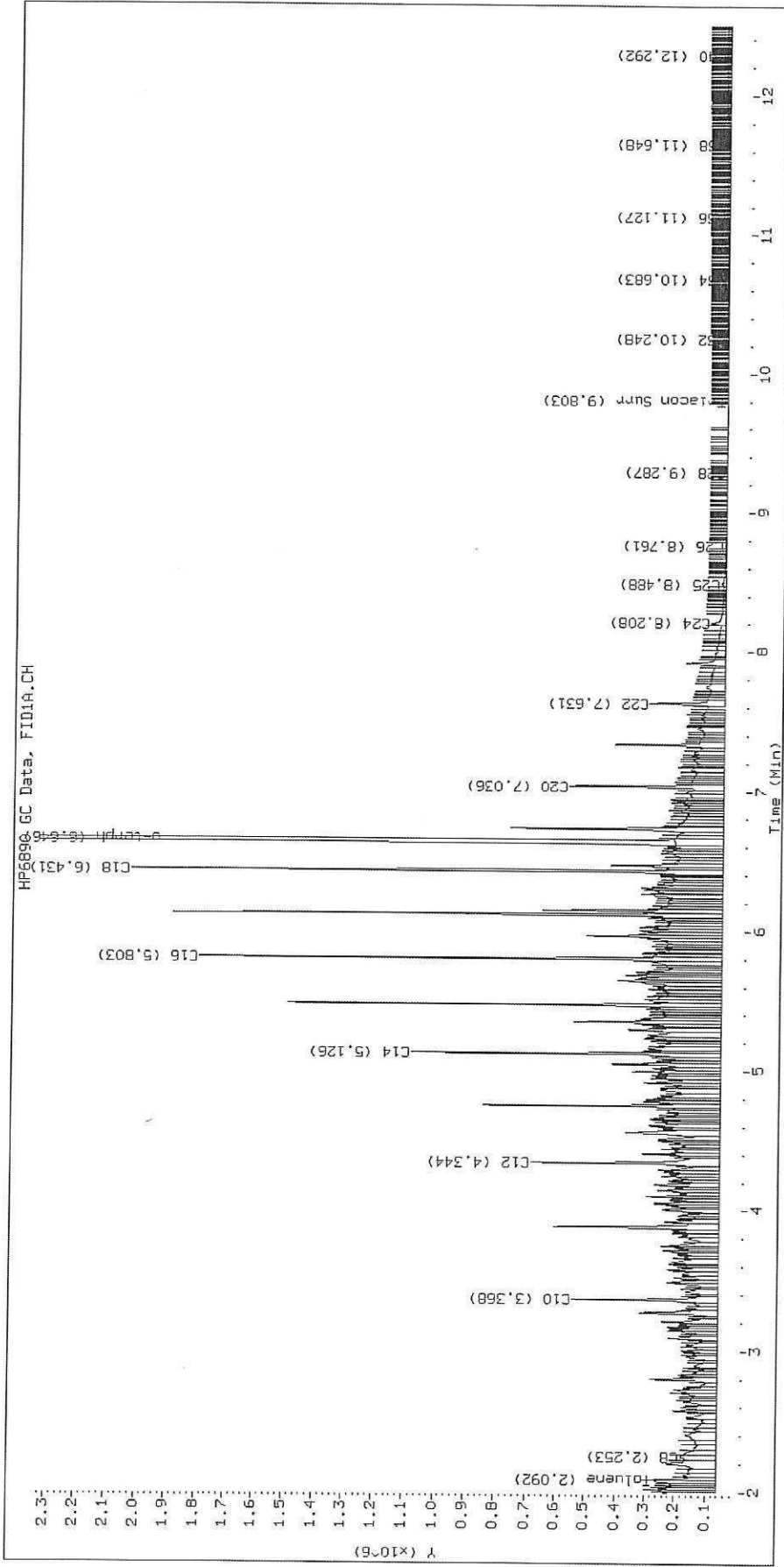
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	8968221	43.8
Triacontane	103	0.0

M Indicates the peak was manually integrated

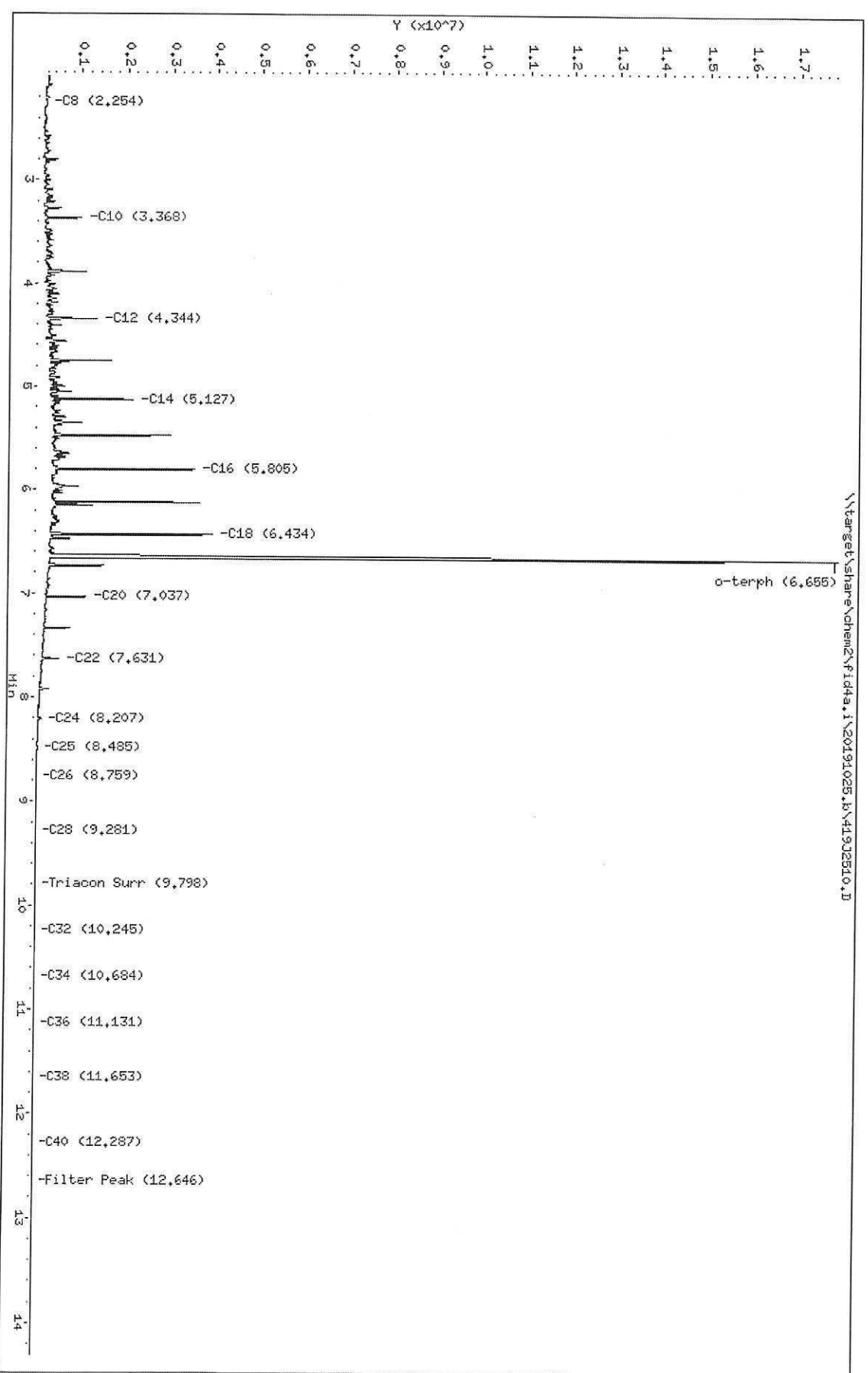
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

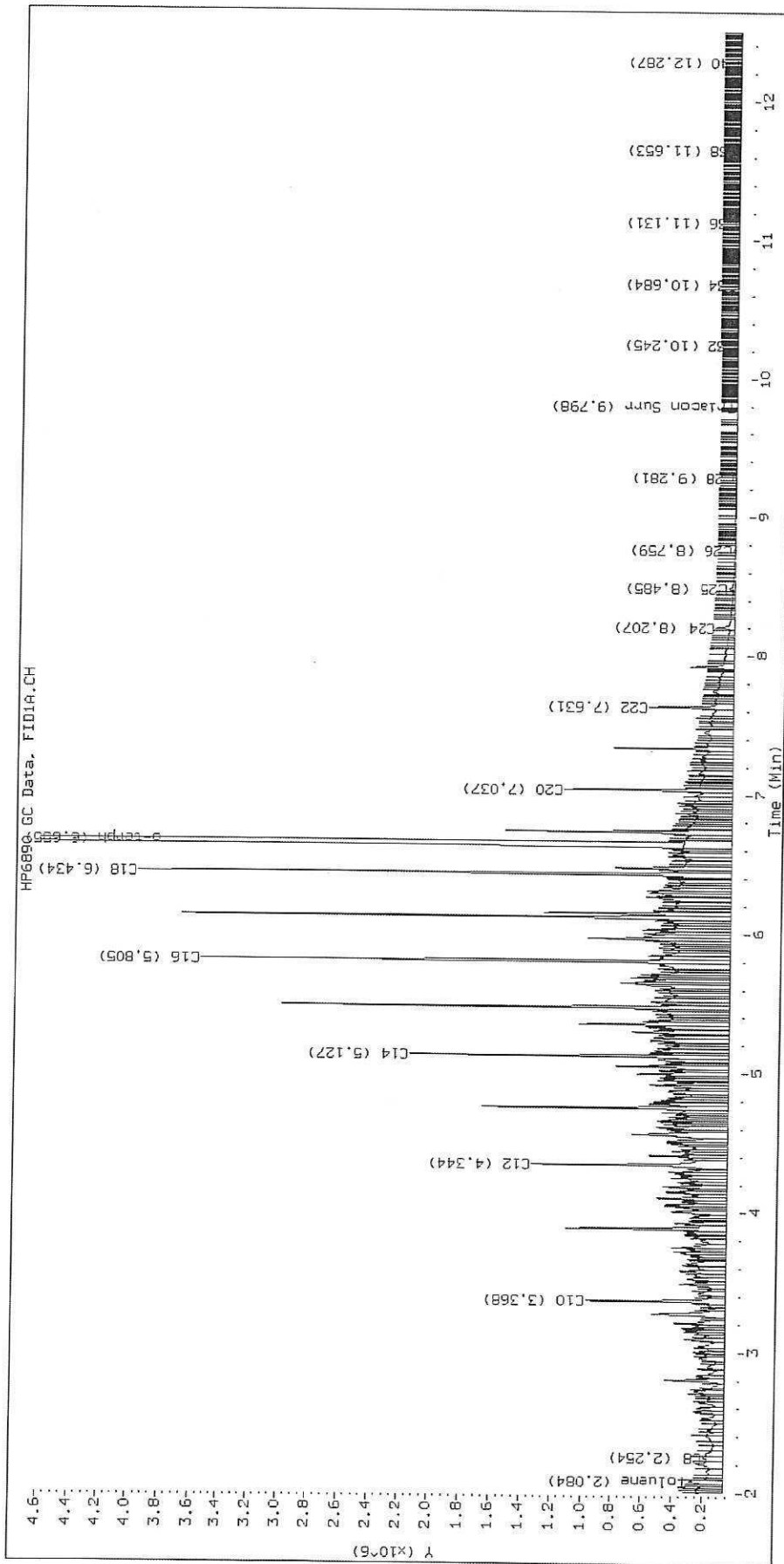
Surrogate	Area	Amount
o-Terphenyl	18236498	89.1 M
Triacotane	112	0.0

M Indicates the peak was manually integrated

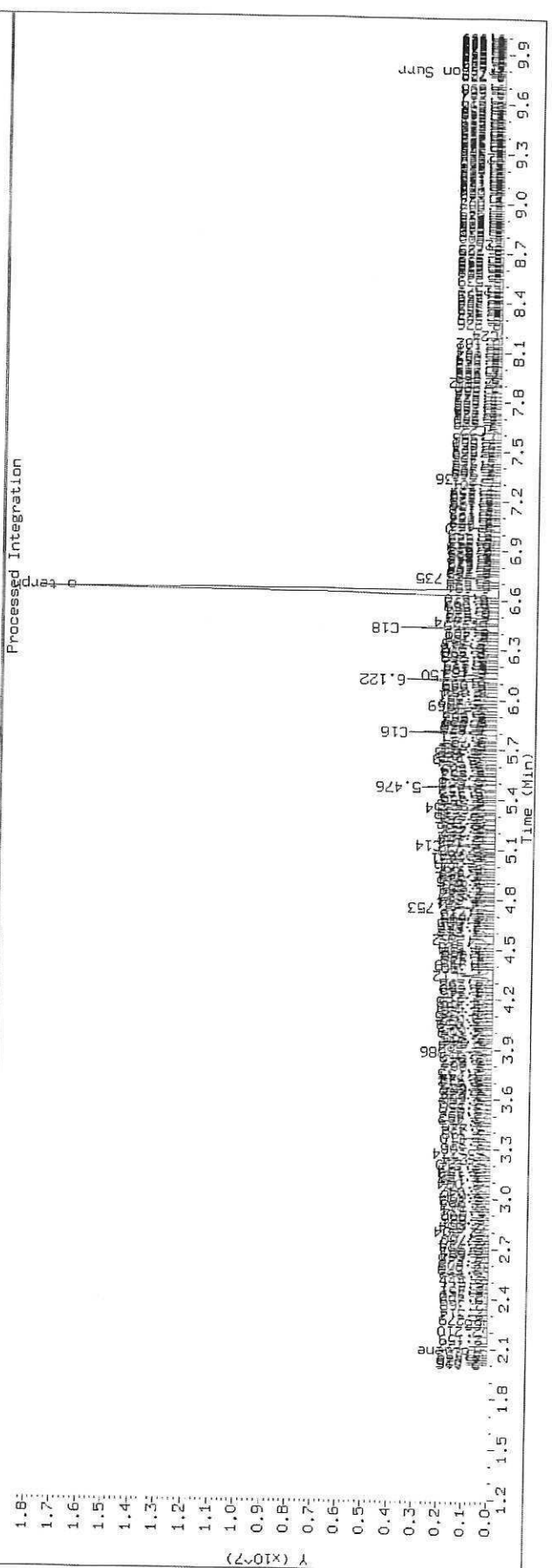
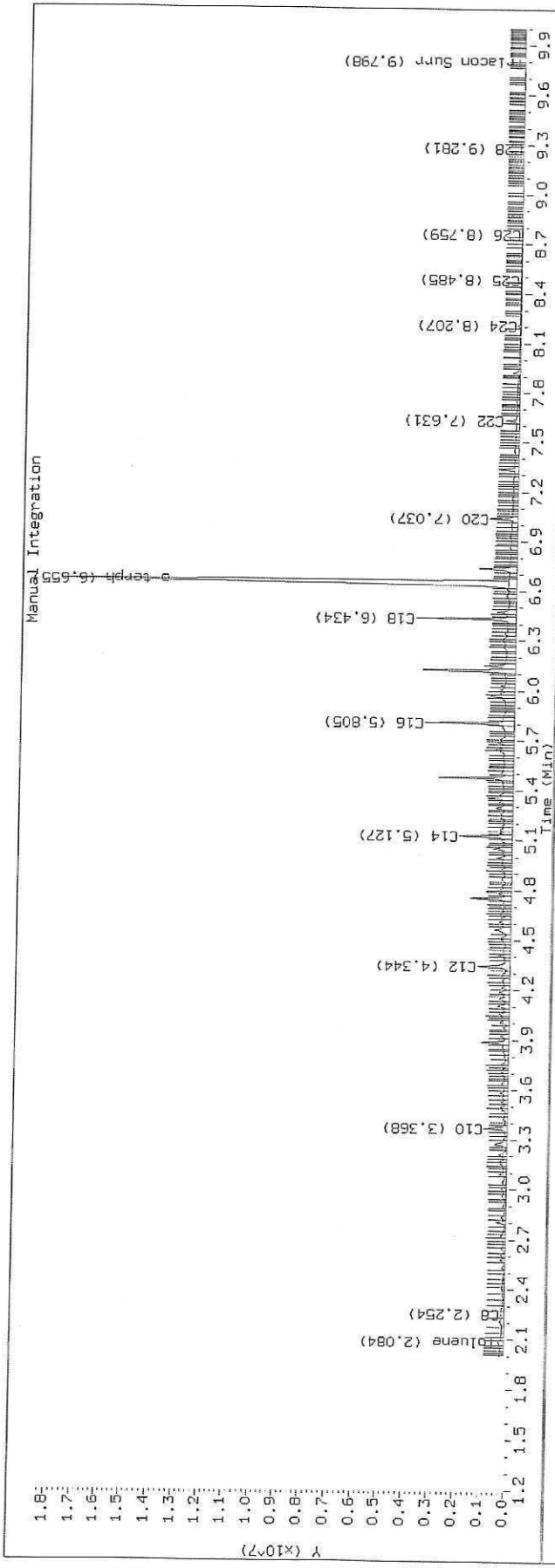
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

Datafile: FID4A, 20191025.b/419J2510.D

SHJ0406-CAL4

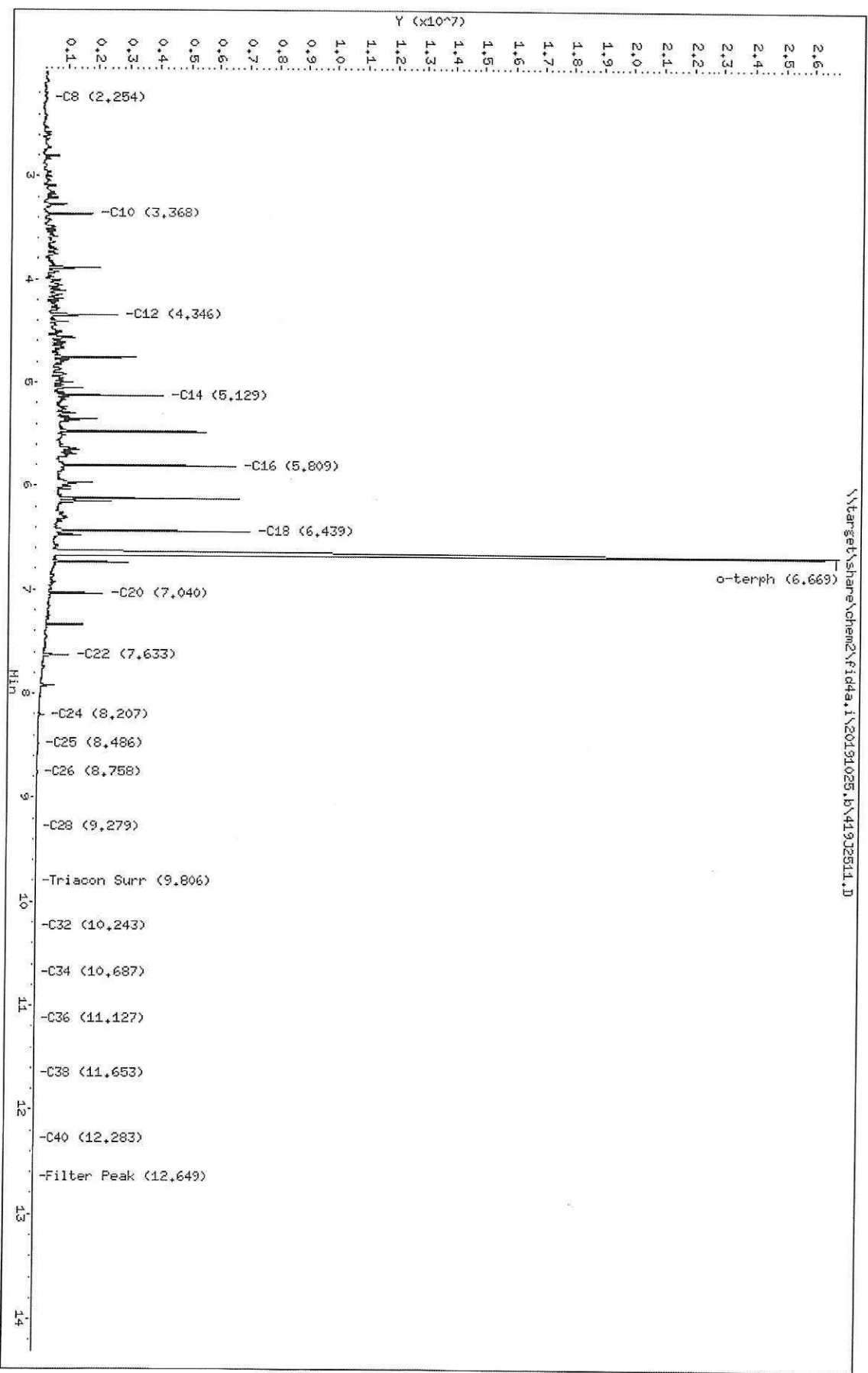


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2510.D Injection: 25-OCT-2019 14:53
 Lab ID: SH0406-CAL4



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/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-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

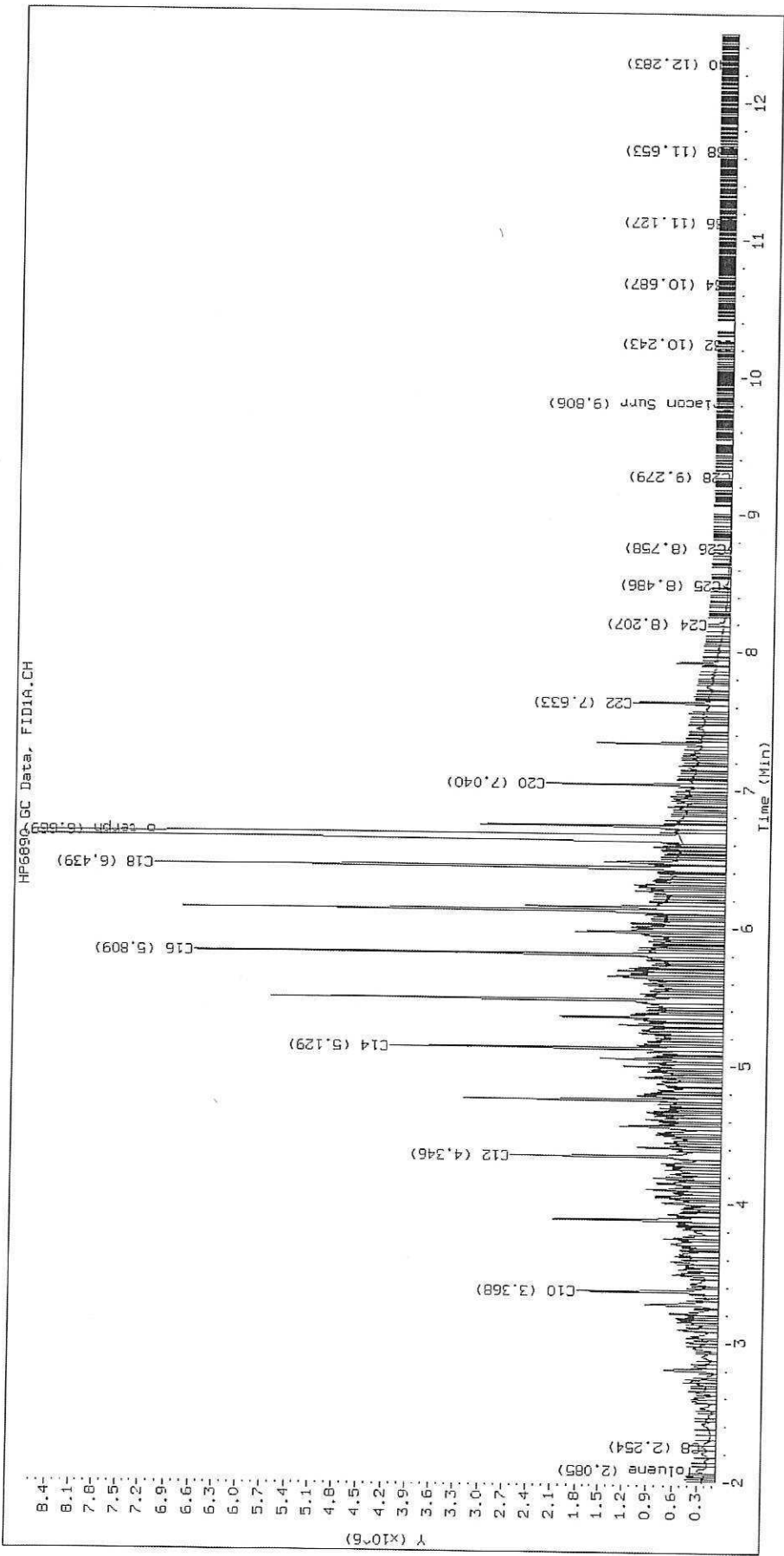
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

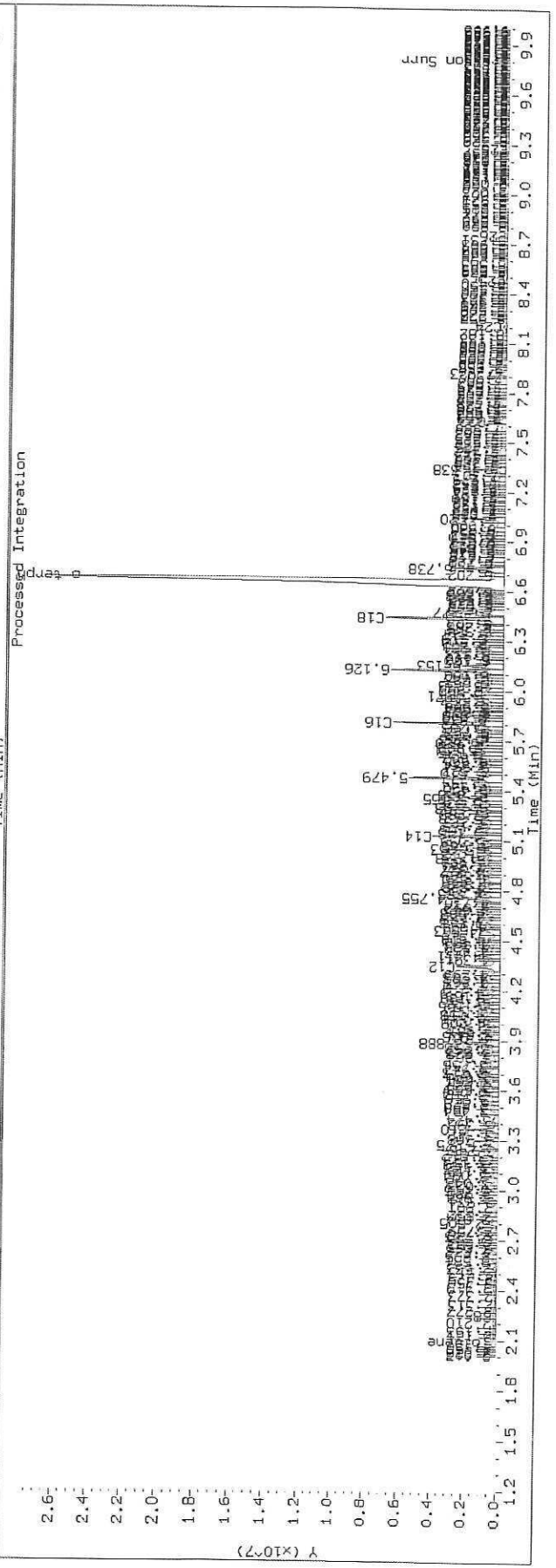
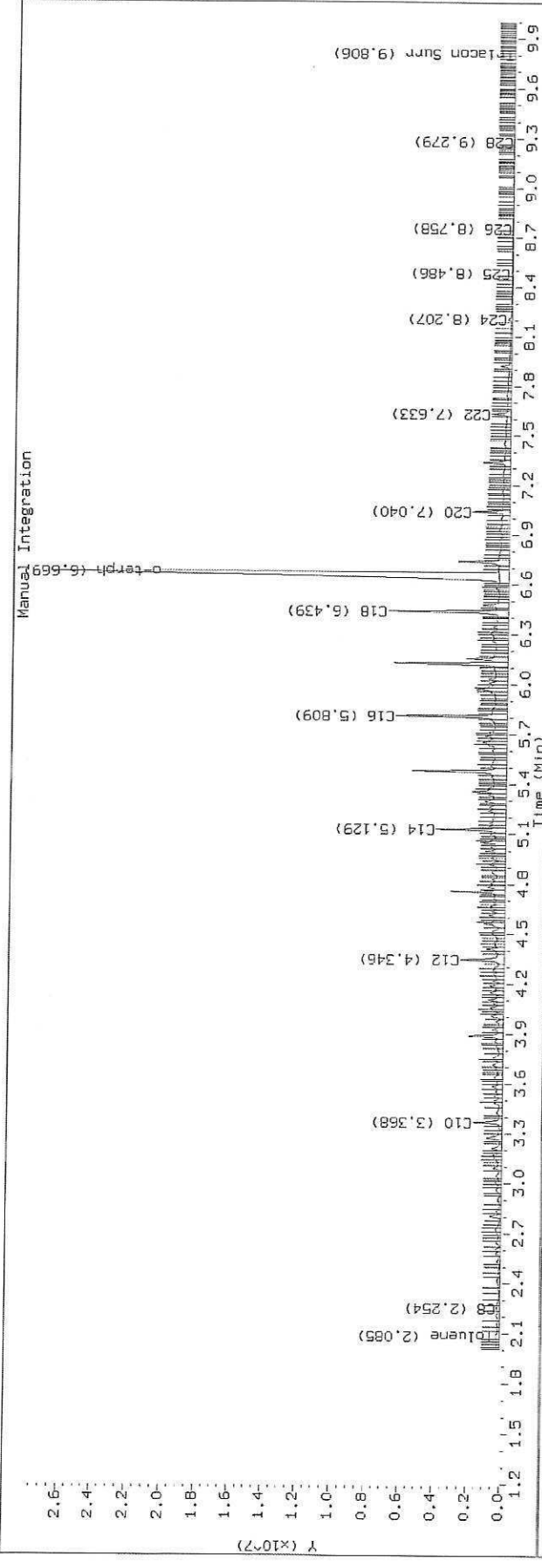
Surrogate	Area	Amount
o-Terphenyl	37244787	181.9 M
Triacotane	1069	0.0

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

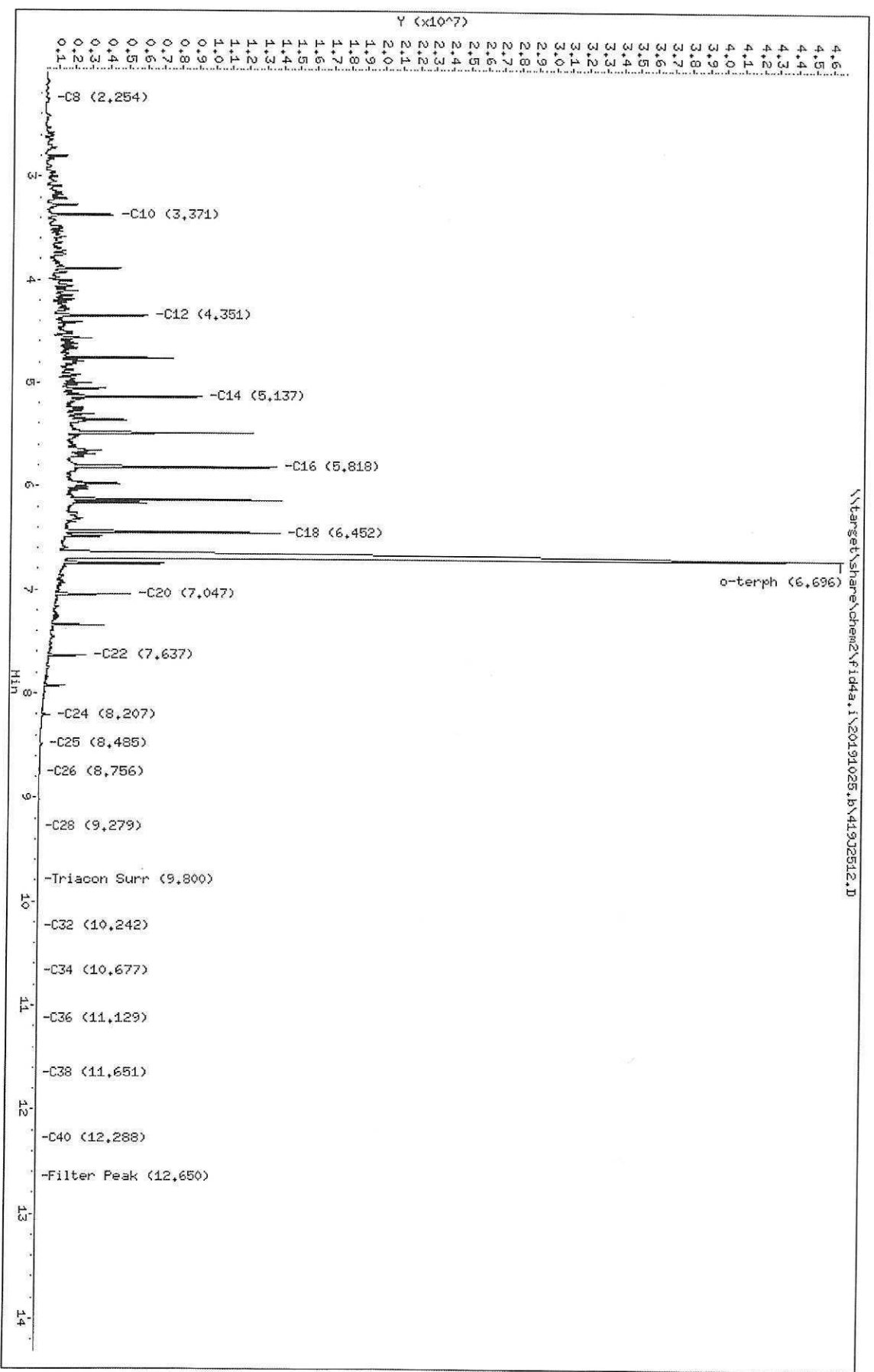
Datafile: FID4A, 20191025.b/419J2511.D SHJ0406-CAL5





Data File: \\target\shane\chem2\F1d4a.I\20191025.B\419J2B12.D
Date: 25-OCT-2019 15:32
Client ID:
Sample Info: SHJ0406-CHL6
Column phase: RTX-1

Instrument: f1d4a.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.i, 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

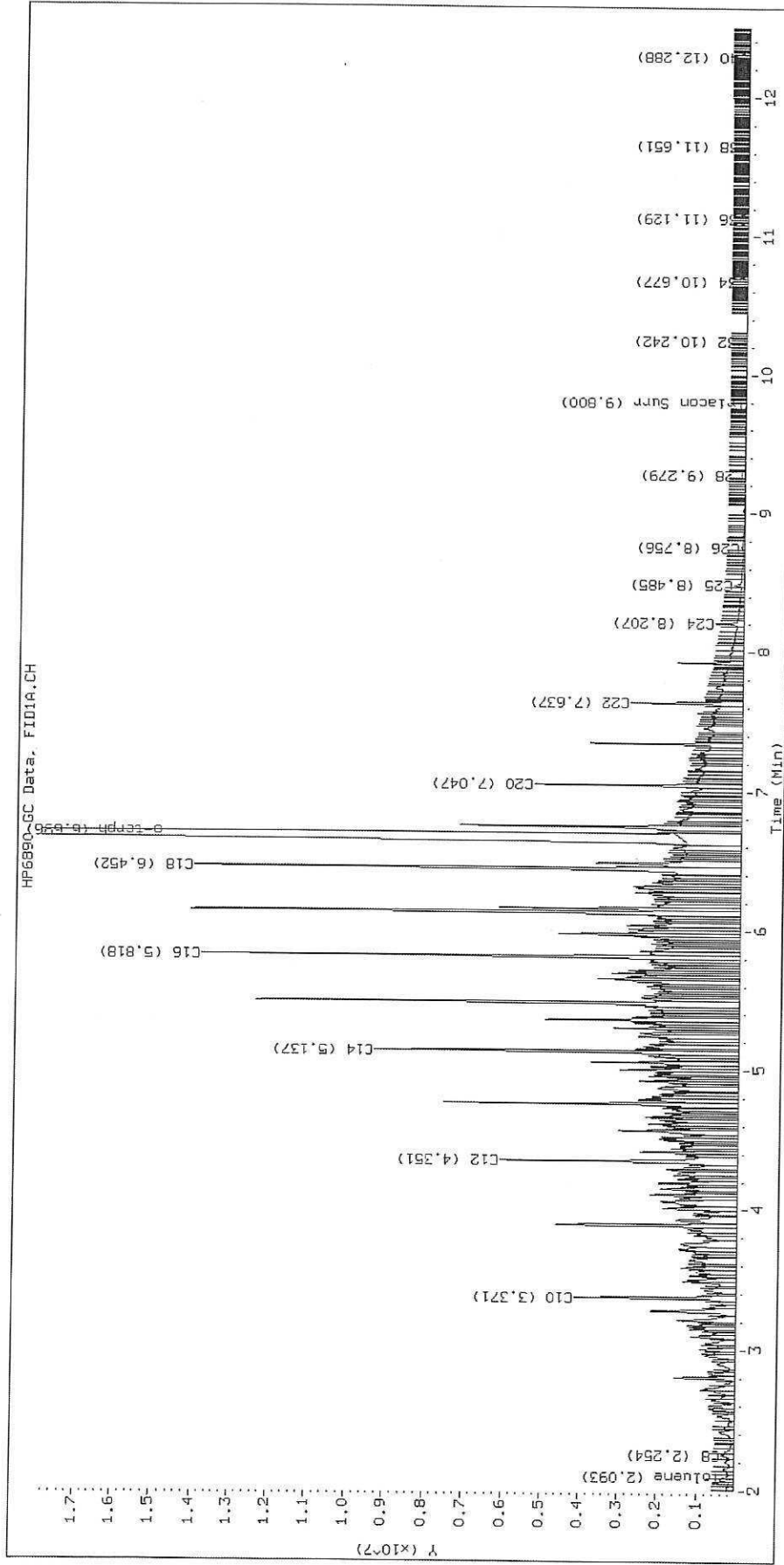
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

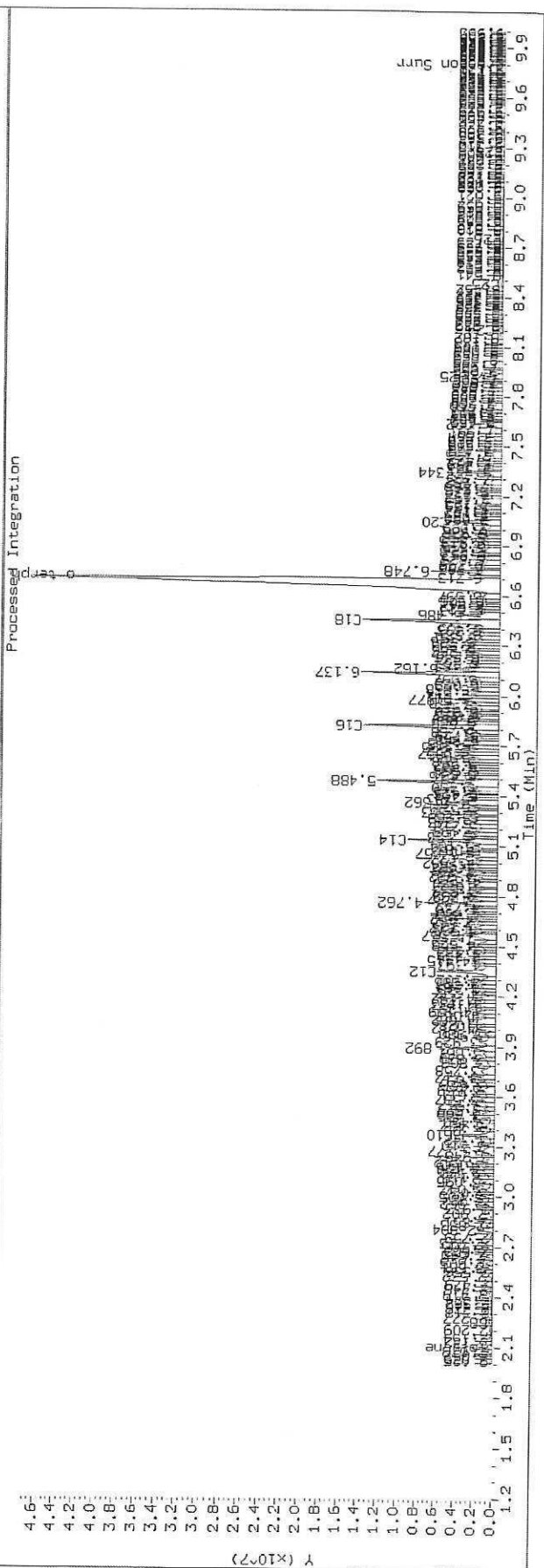
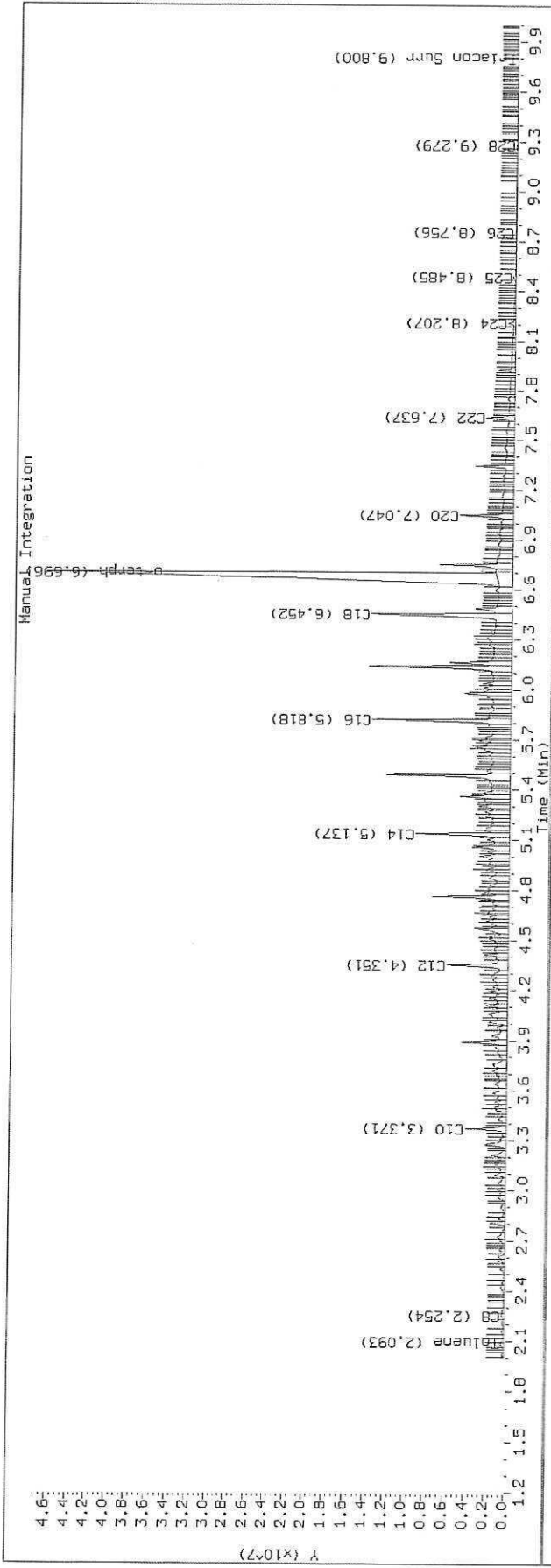
Surrogate	Area	Amount
o-Terphenyl	94404433	461.2 M
Triacontane	892	0.0

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

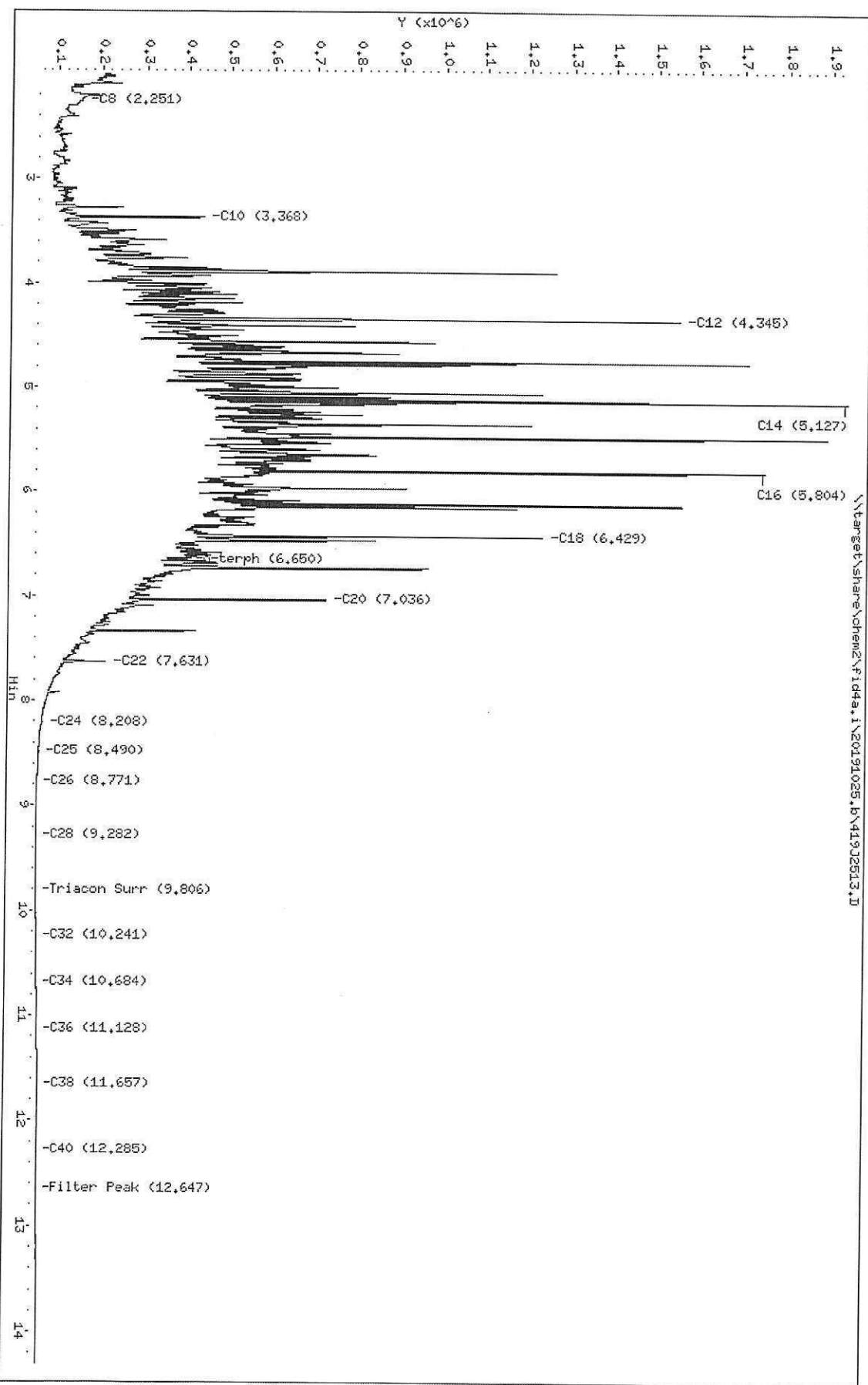
Datafile: FID4A, 20191025.b/419J2512.D SHJ0406-CAL6





Data File: \\target\share\chem2\fid4a.i\20191025.B\419J2513.D
Date: 25-OCT-2019 15:52
Client ID:
Sample Info: SH30406-SCV1
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)

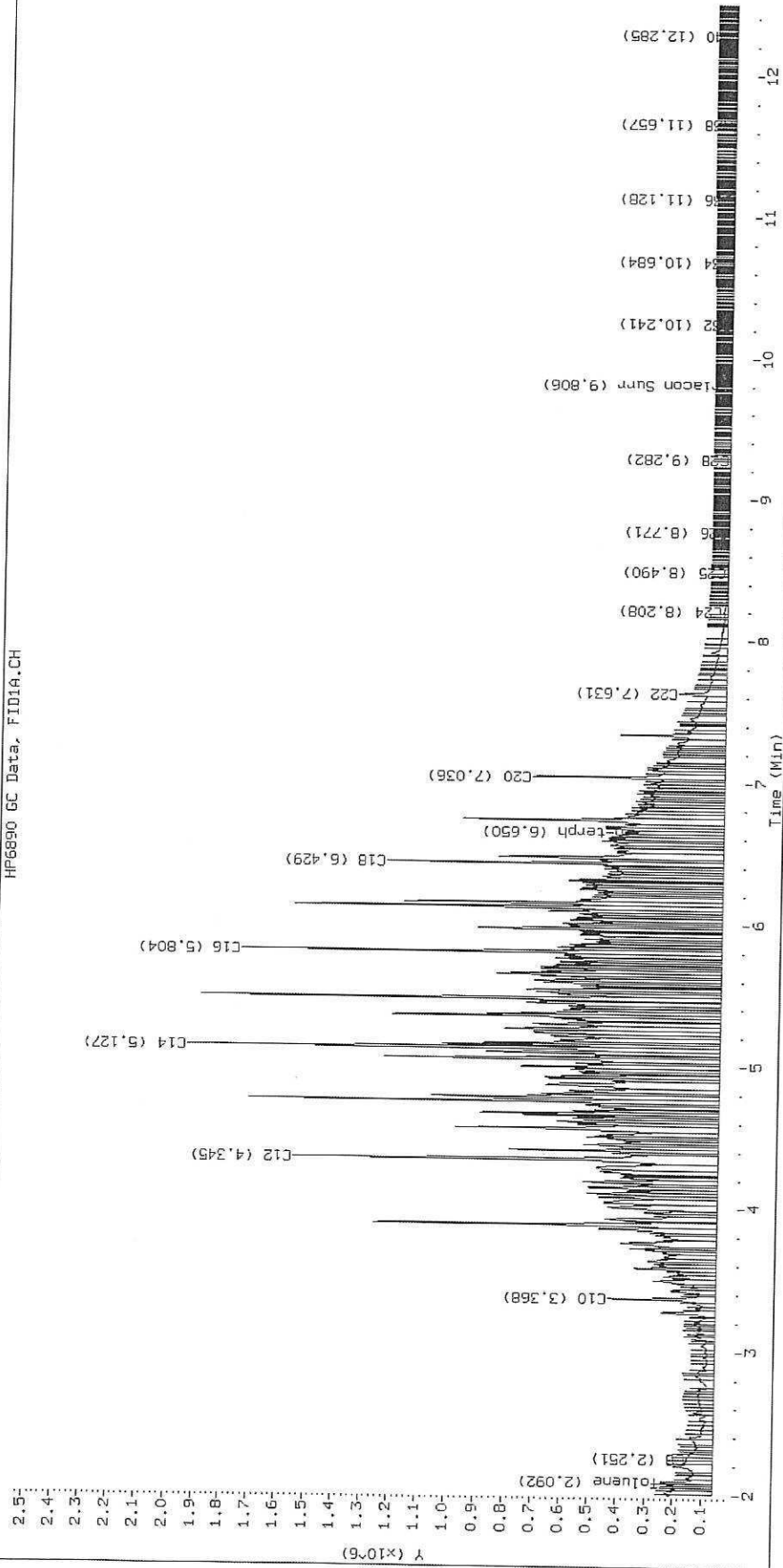
Surrogate	Area	Amount
o-Terphenyl	350999	1.7
Triacontane	388	0.0

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

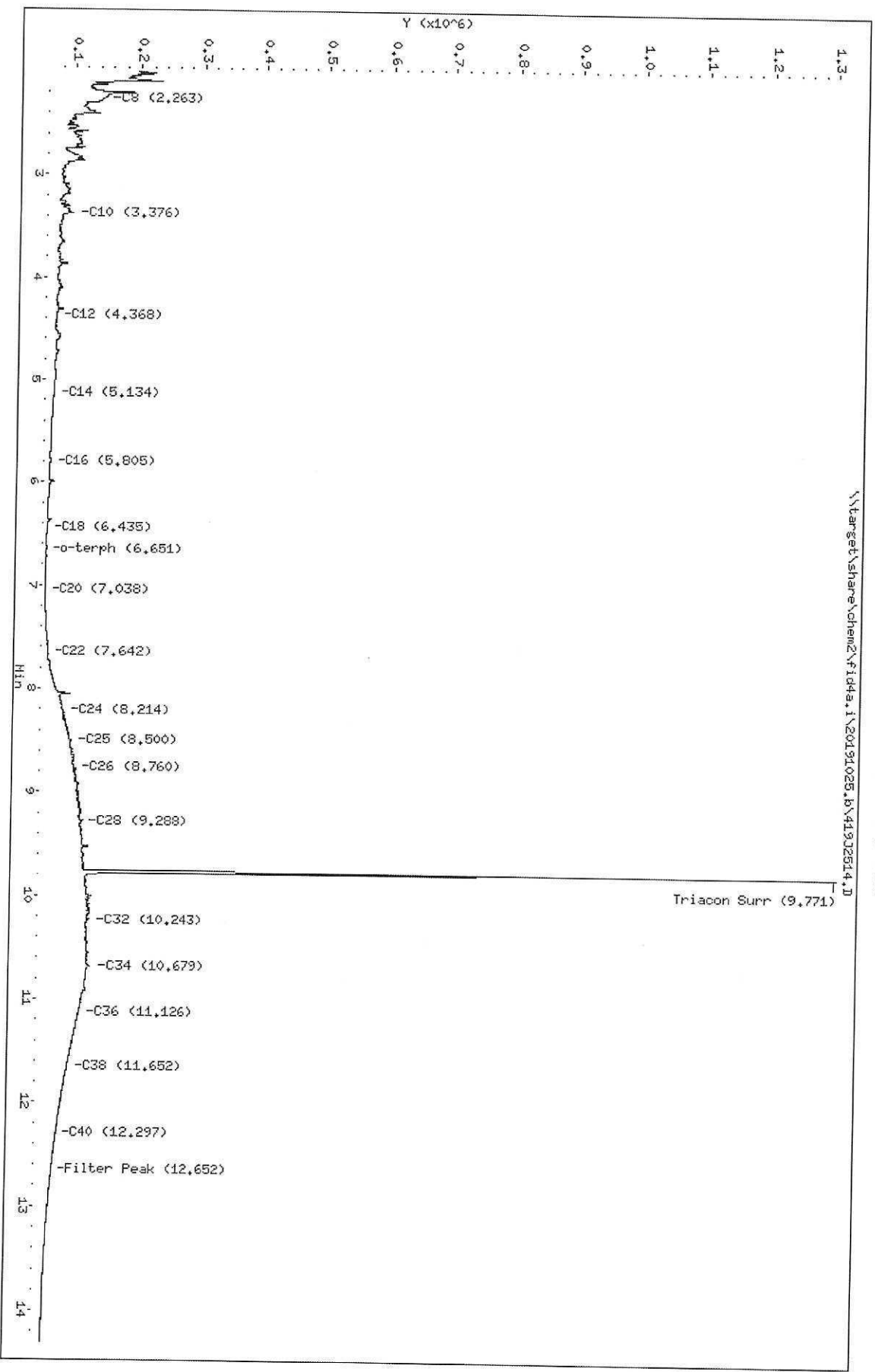
Datafile: FID4A, 20191025.b/419J2513.D SHJ0406-SCVI

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: CTG/SH/VTS/JGR
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)

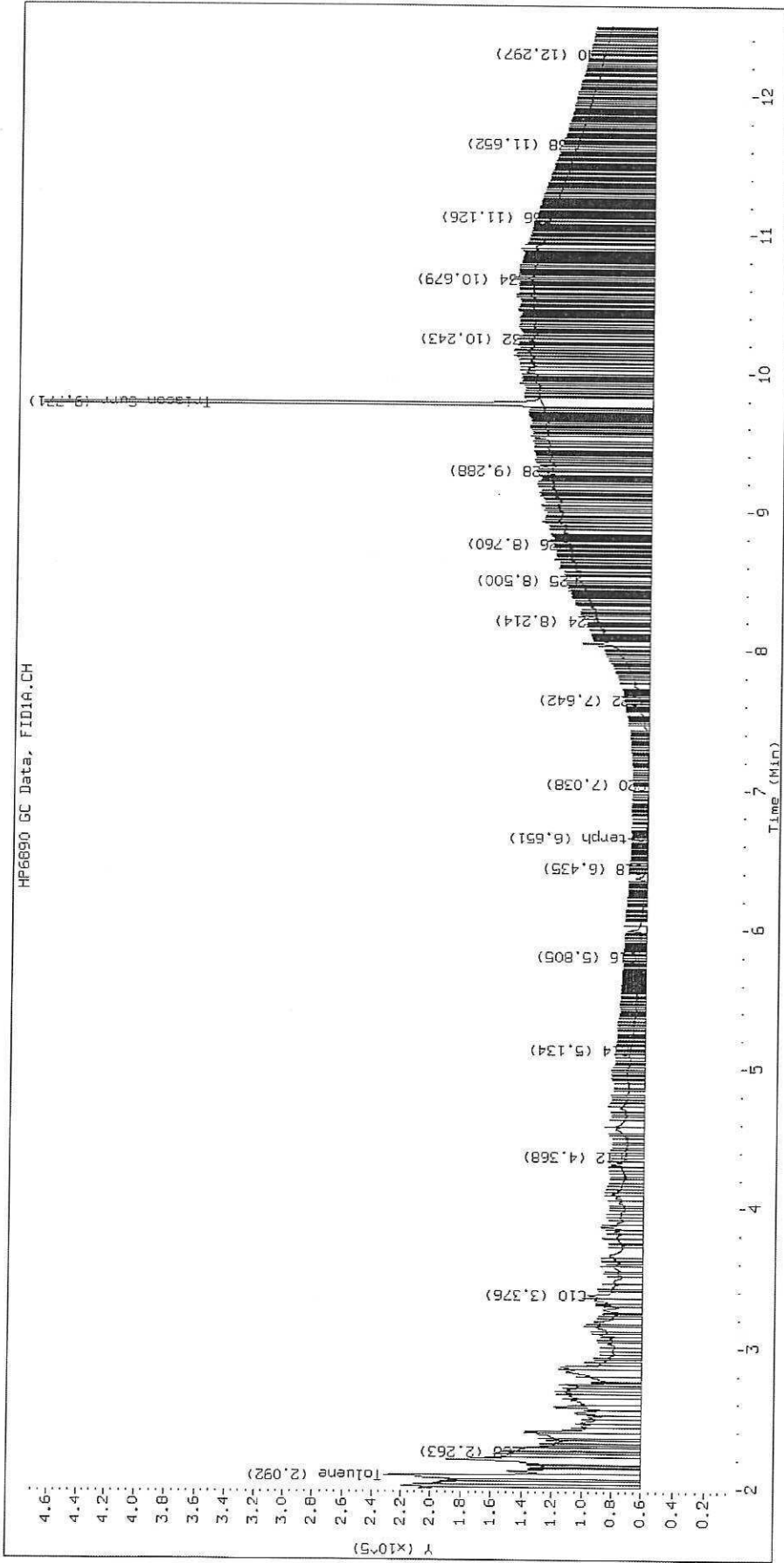
Surrogate	Area	Amount
o-Terphenyl	547	0.0
Triacotane	816812	4.6 M

M Indicates the peak was manually integrated

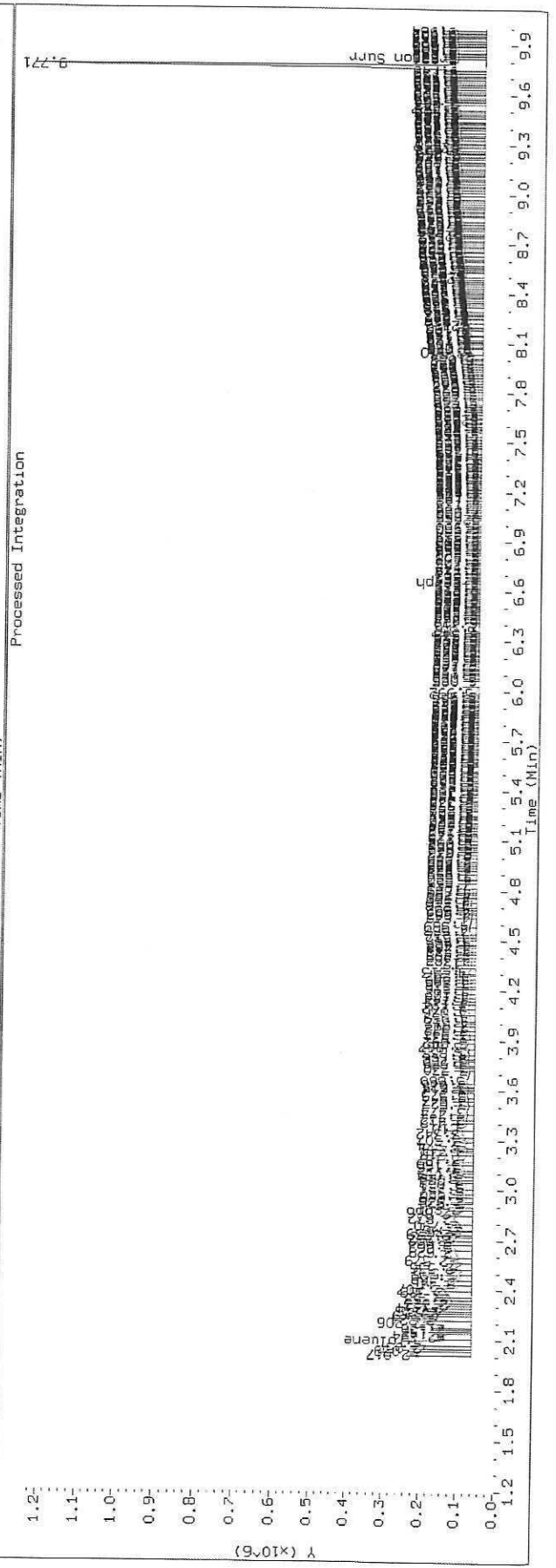
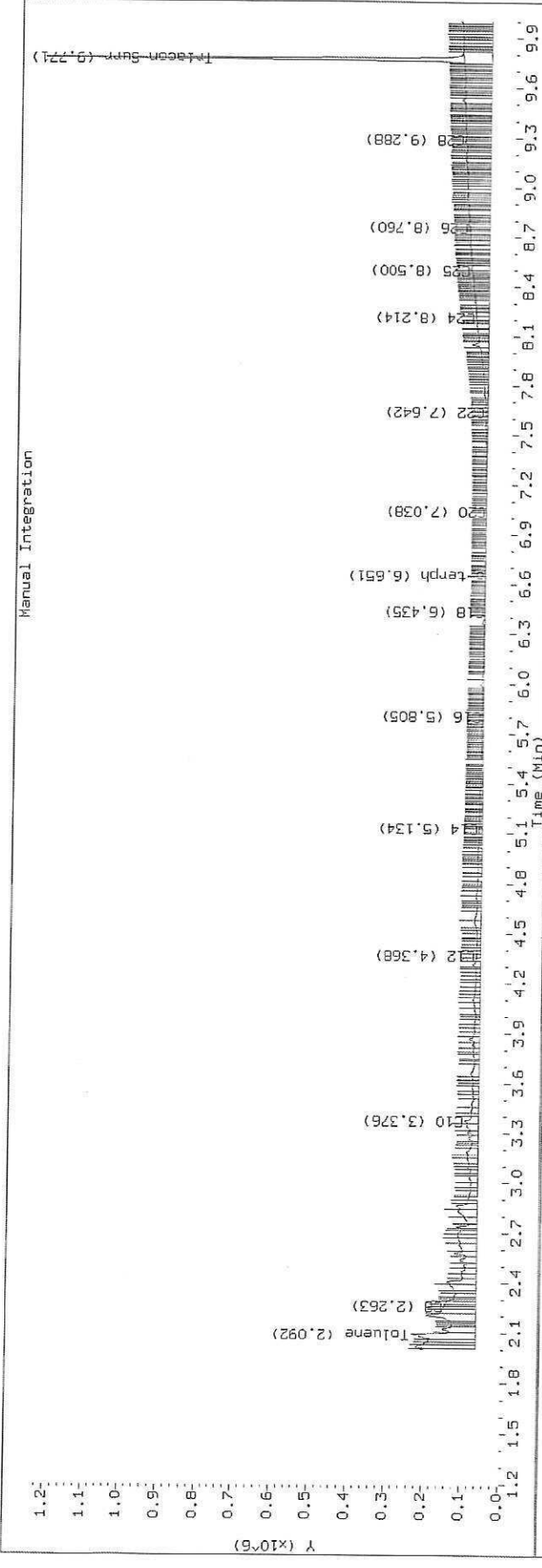
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH

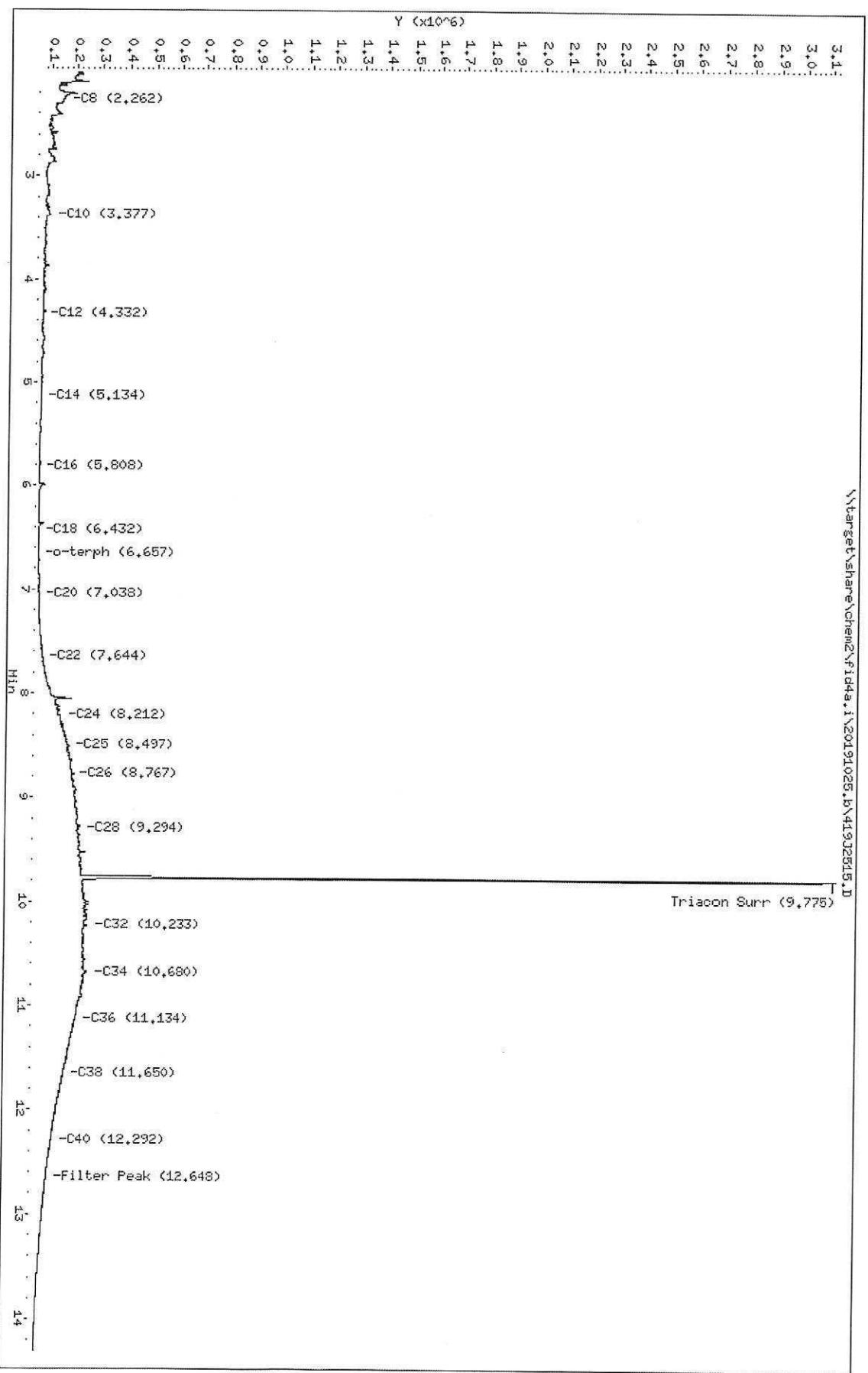


Datafile: FID4A, 20191025.b/419J2514.D Injection: 25-OCT-2019 16:12
 Lab ID: SHJ0406-CAL7



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)

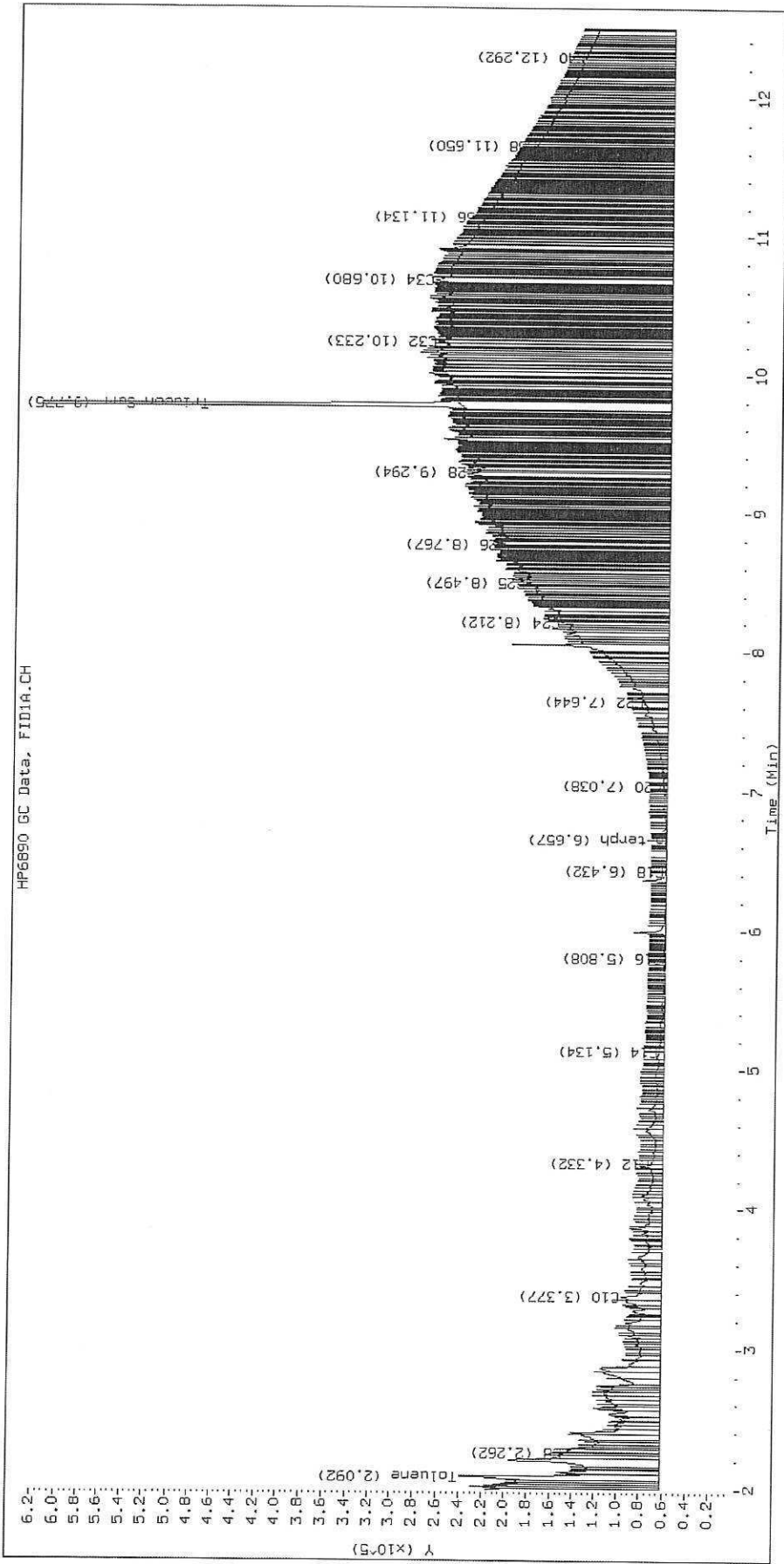
Surrogate	Area	Amount
o-Terphenyl	796	0.0
Triacontane	2052387	11.5 M

M Indicates the peak was manually integrated

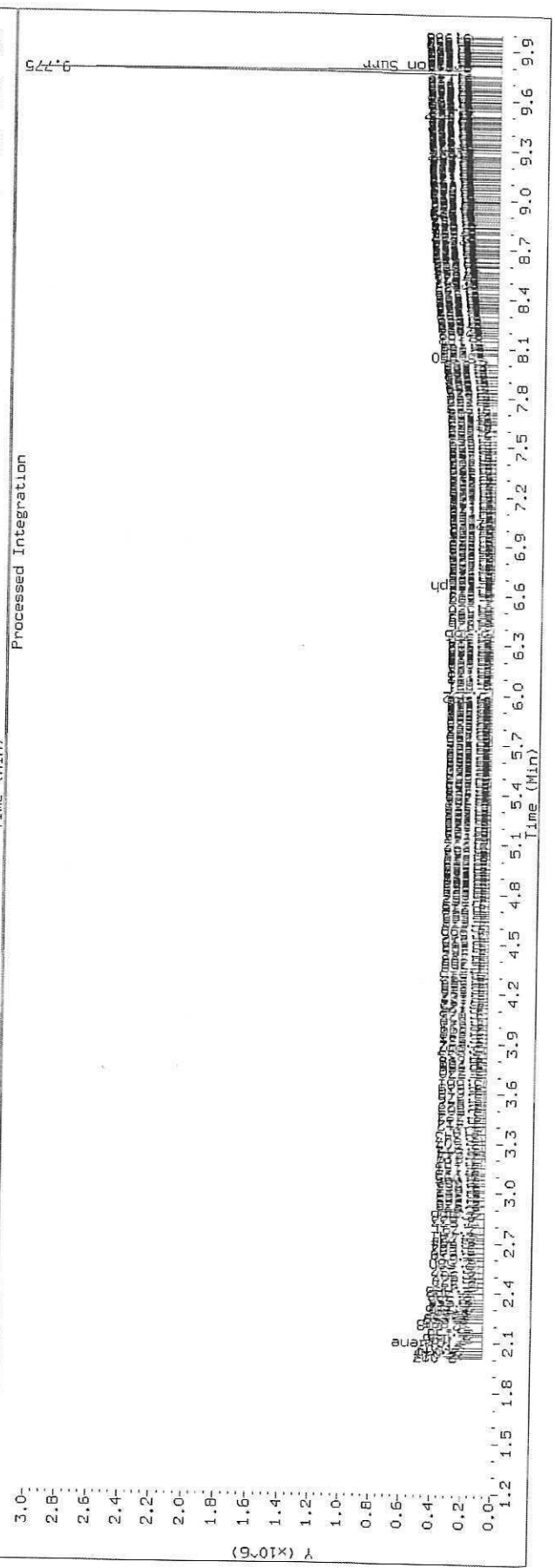
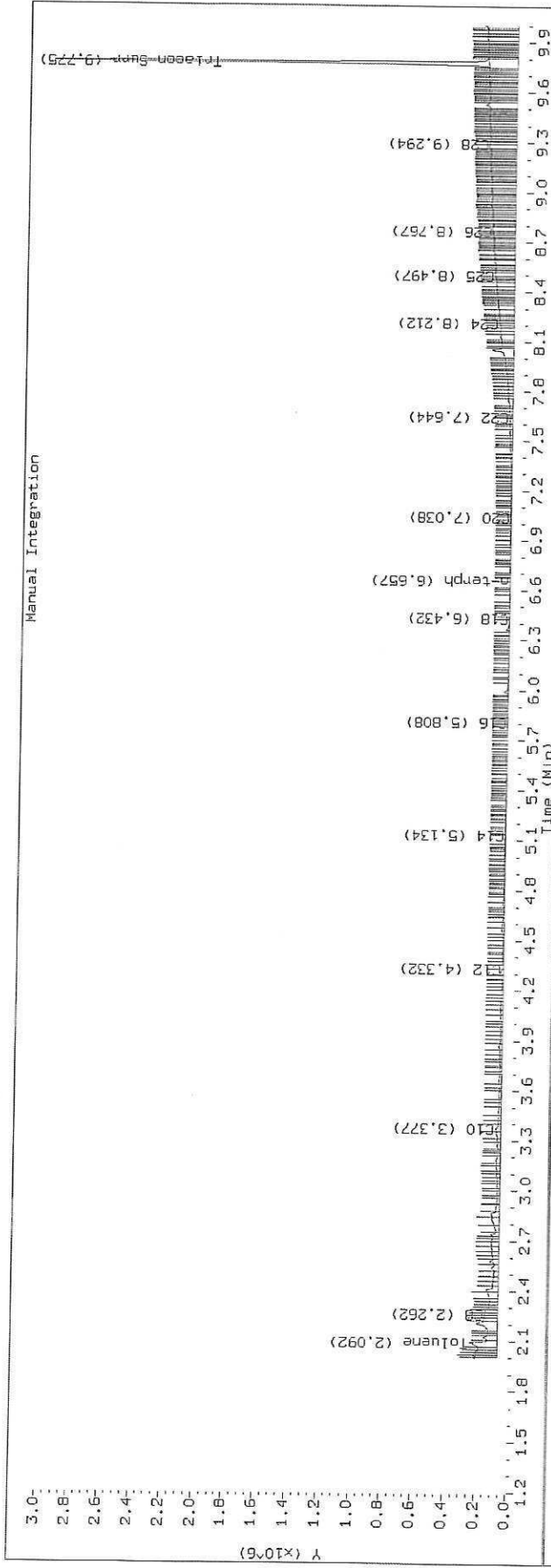
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH

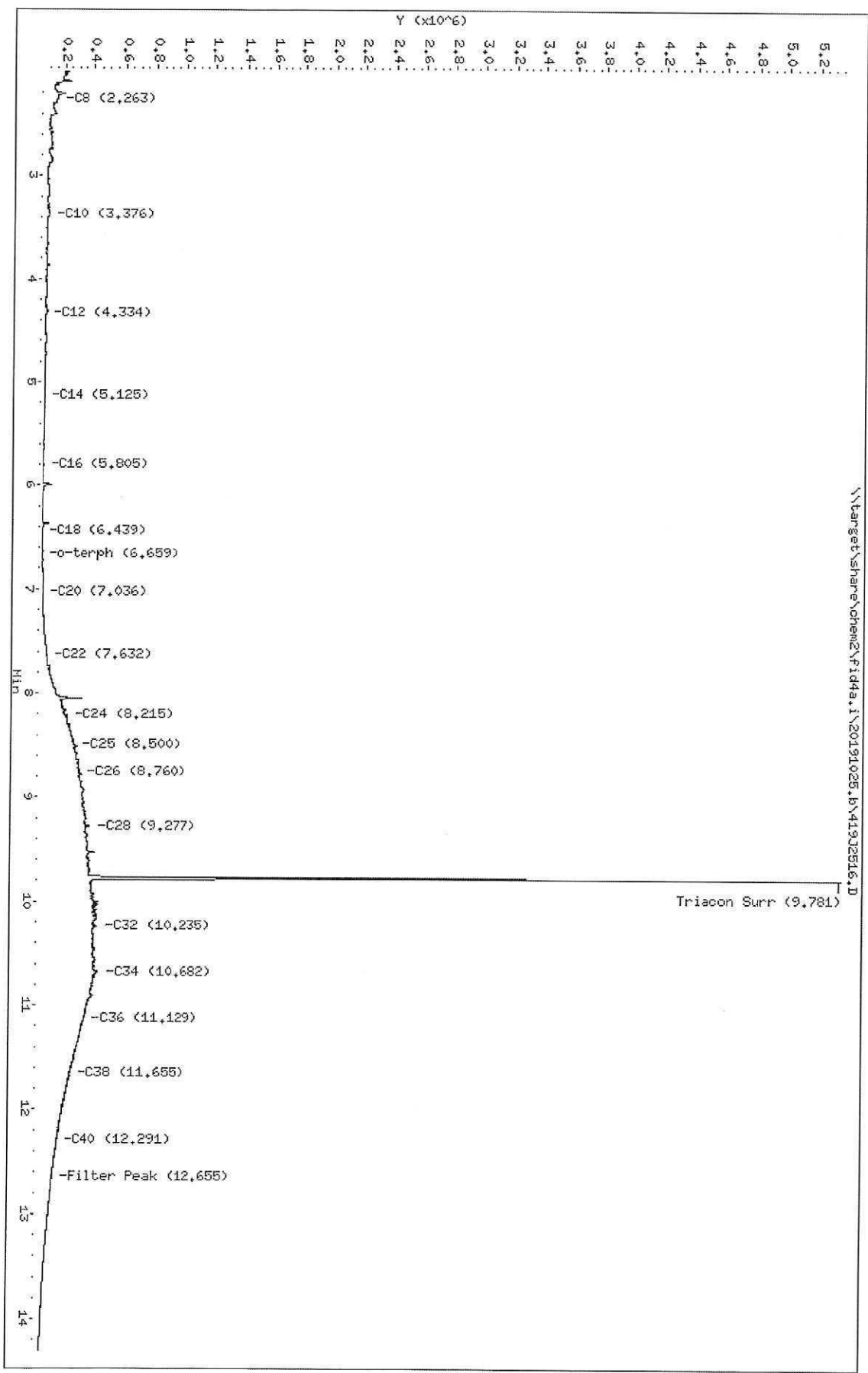


Datafile: FID4A, 20191025.b/419J2515.D Injection: 25-OCT-2019 16:33
 Lab ID: SHJ0406-CAL8



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

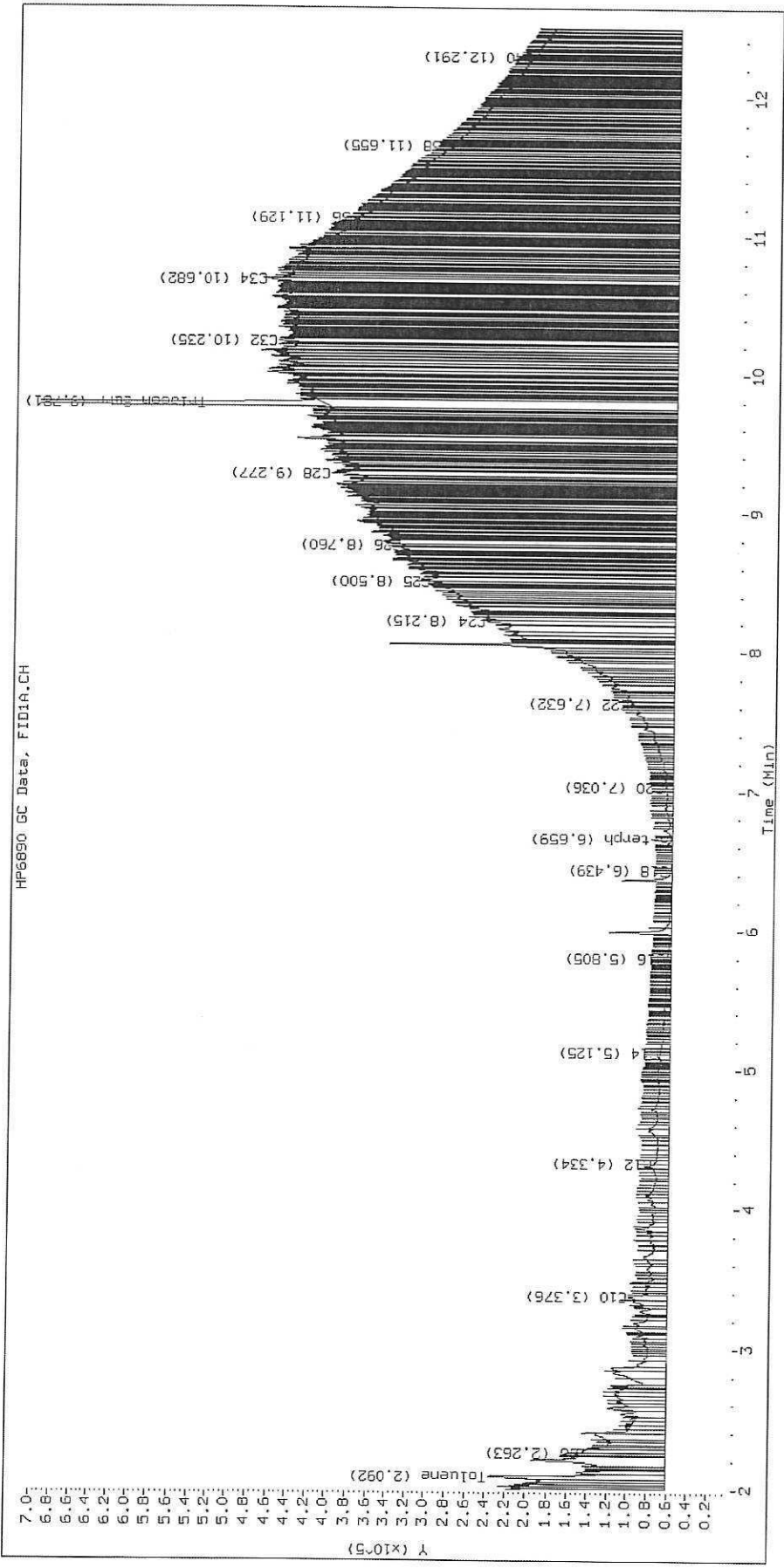
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

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

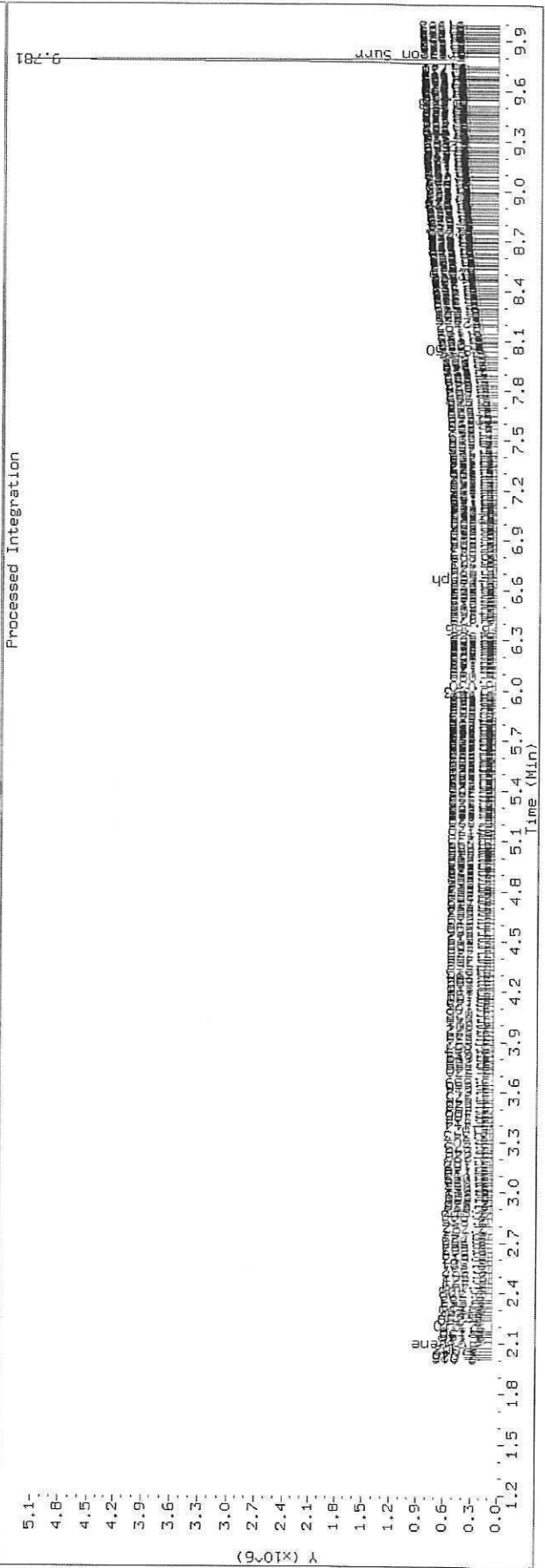
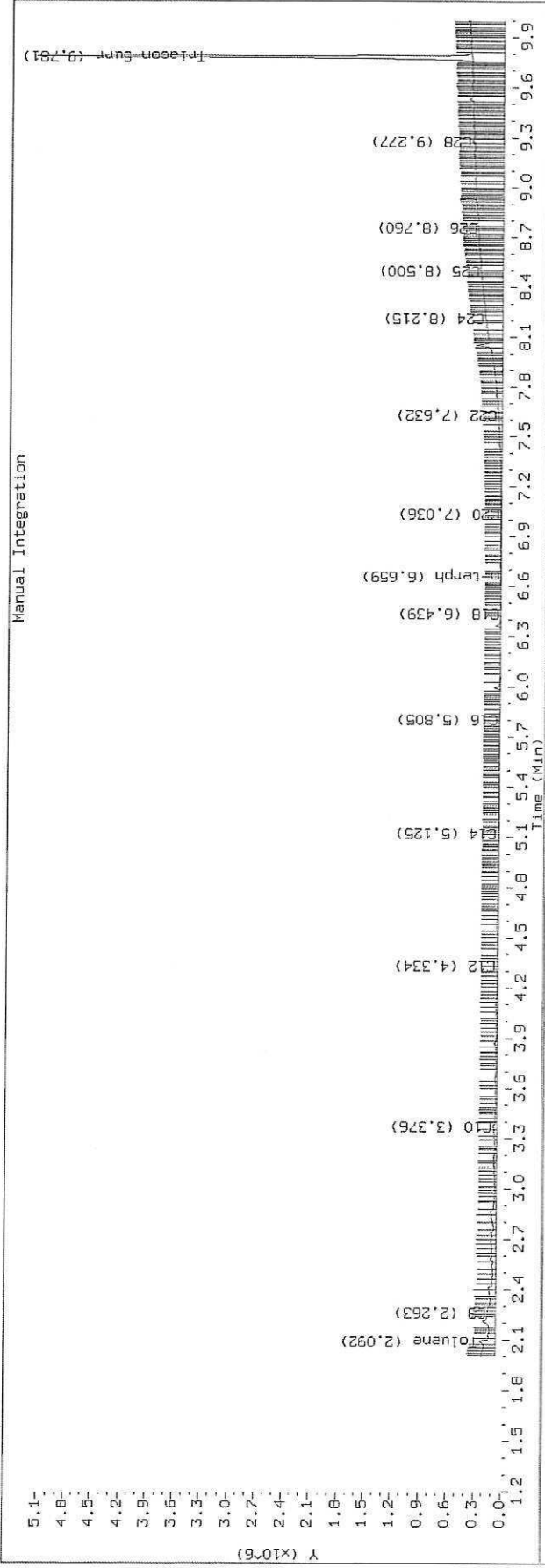
M Indicates the peak was manually integrated

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

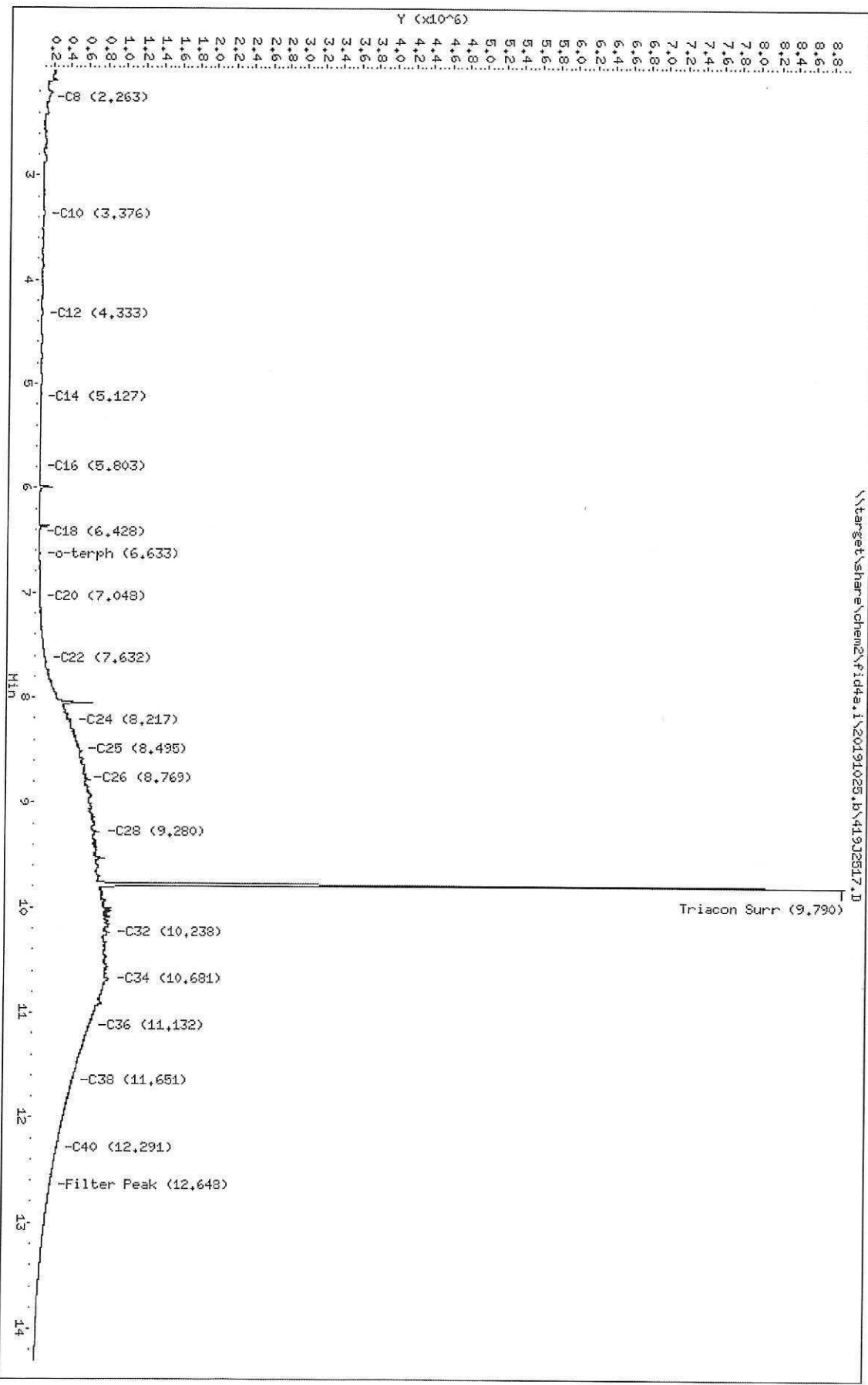


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2516.D Injection: 25-OCT-2019 16:53
 Lab ID:SHJ0406-CAL9



Data File: \\target\share\chem2\f1d4a.i\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)

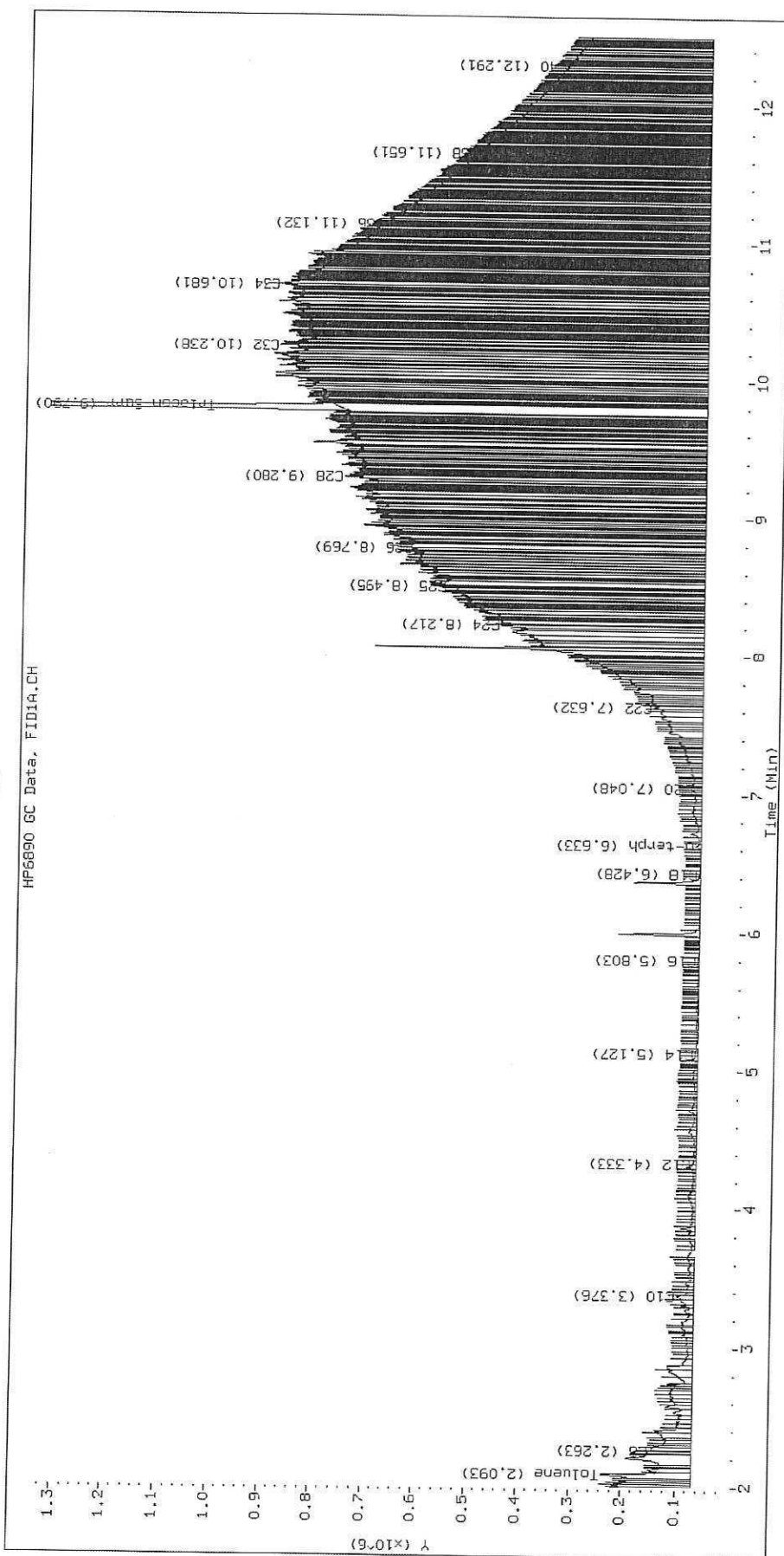
Surrogate	Area	Amount
o-Terphenyl	15135	0.1
Triacotane	7927188	44.5 M

M Indicates the peak was manually integrated

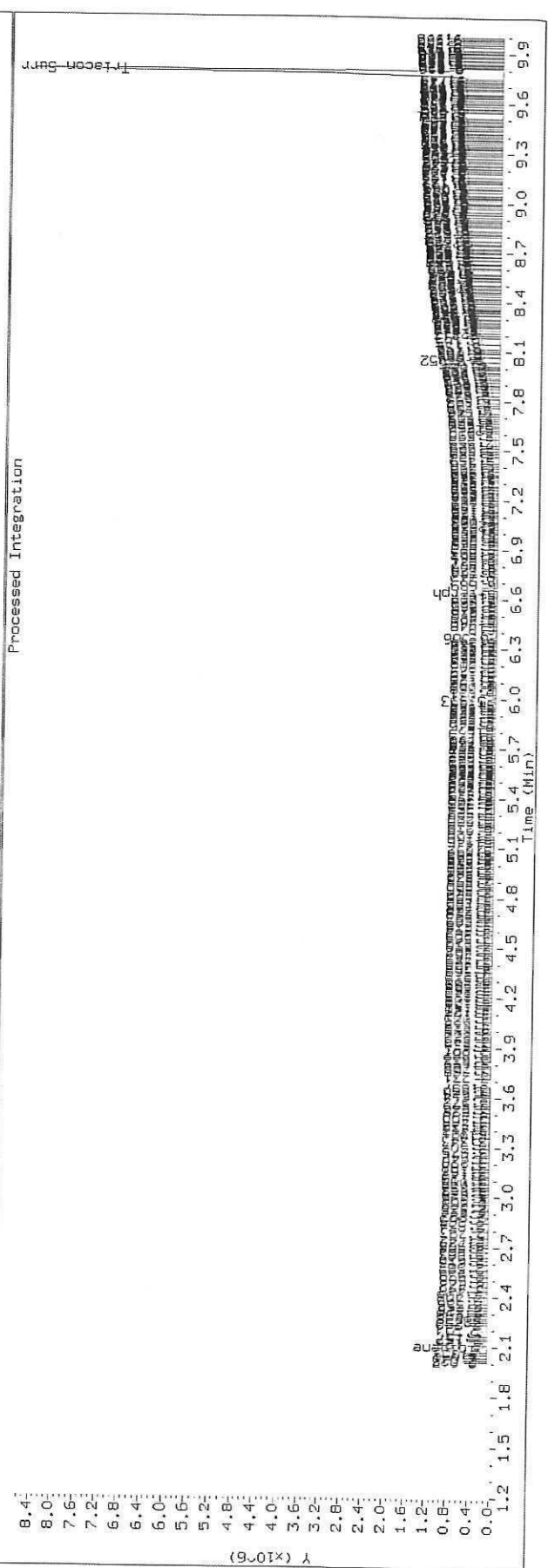
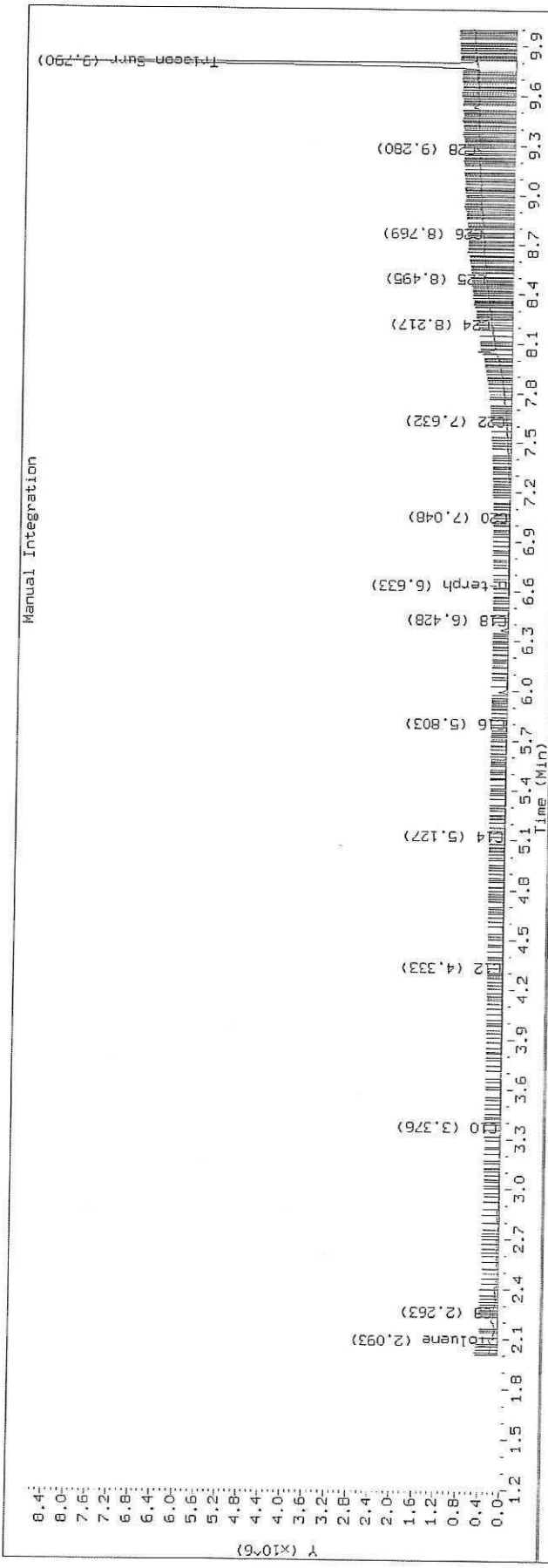
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

Datafile: FID4A, 20191025.b/419J2517.D

SHJ0406-CALA

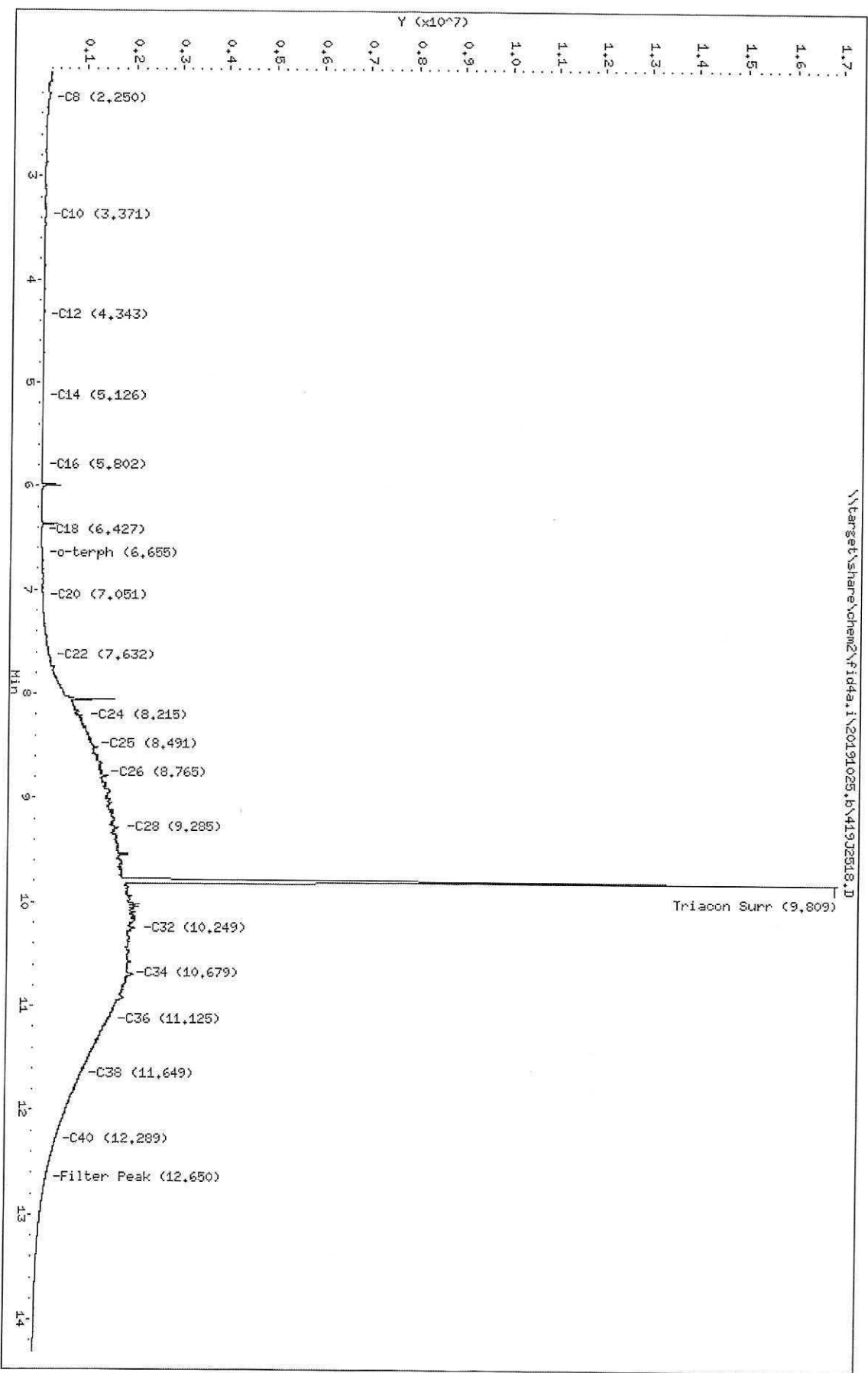


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2517.D Injection: 25-OCT-2019 17:13
 Lab ID: SHJ0406-CALA



Data File: \\target\share\chem2\fid4a.i\20191025.b\419J2518.D
Date: 25-OCT-2019 17:34
Client ID:
Sample Info: SHJ0406-CALB
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/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)

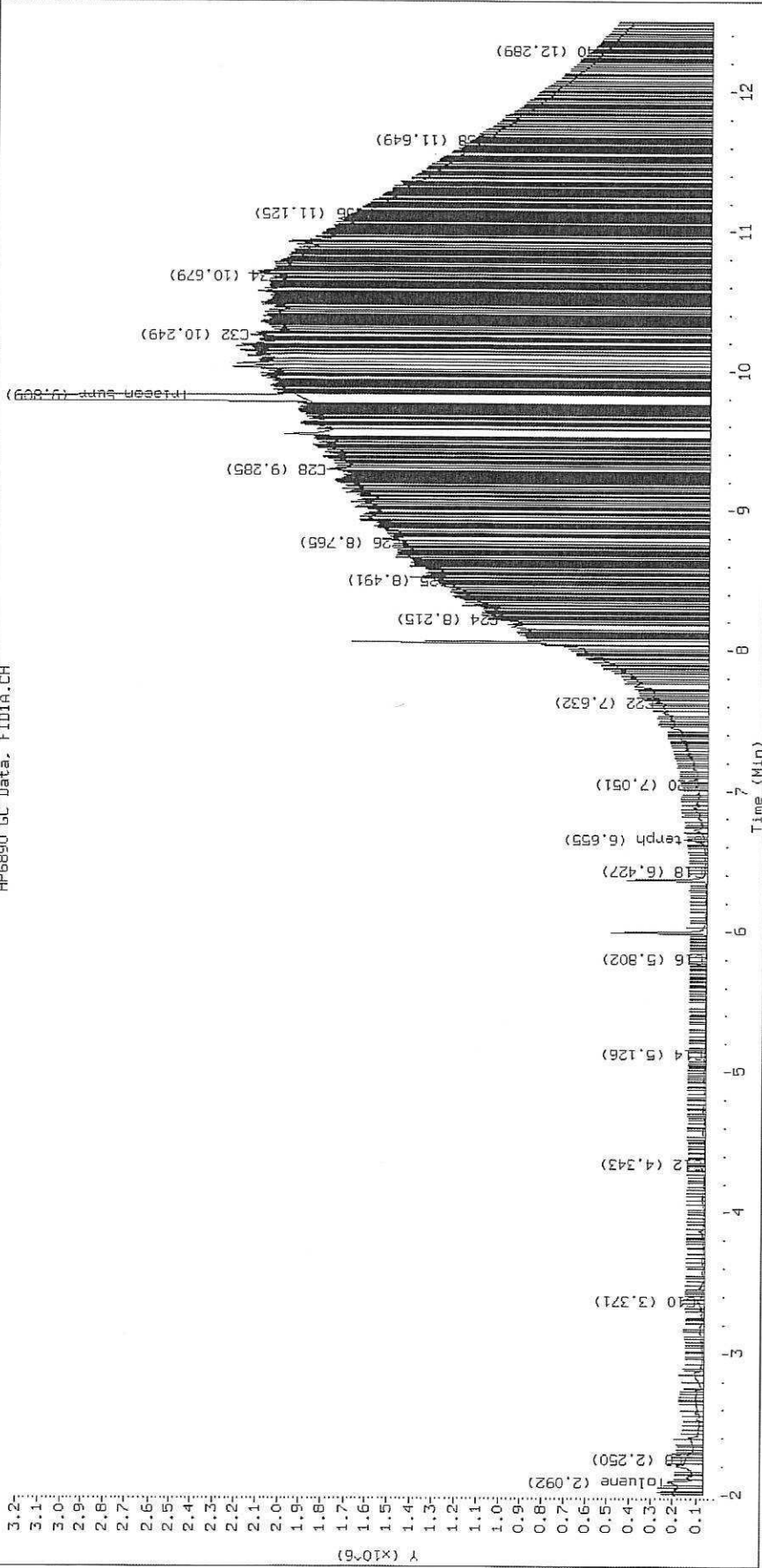
Surrogate	Area	Amount
o-Terphenyl	15731	0.1
Triacontane	20120024	113.0 M

M Indicates the peak was manually integrated

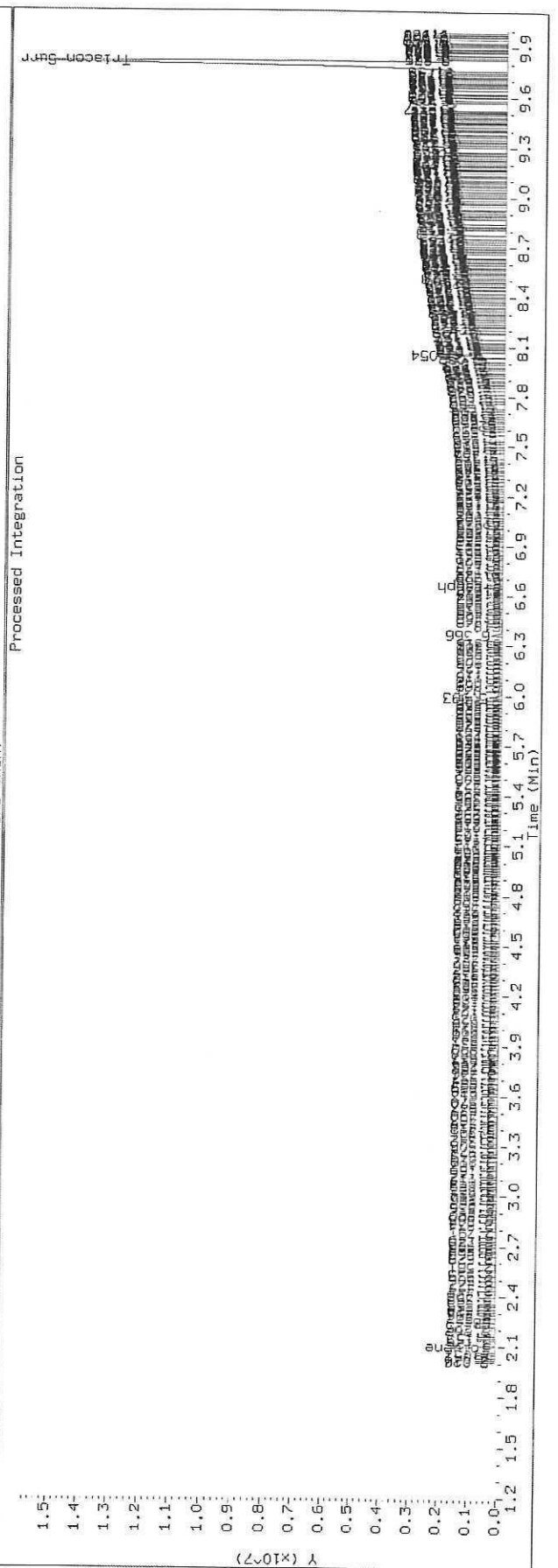
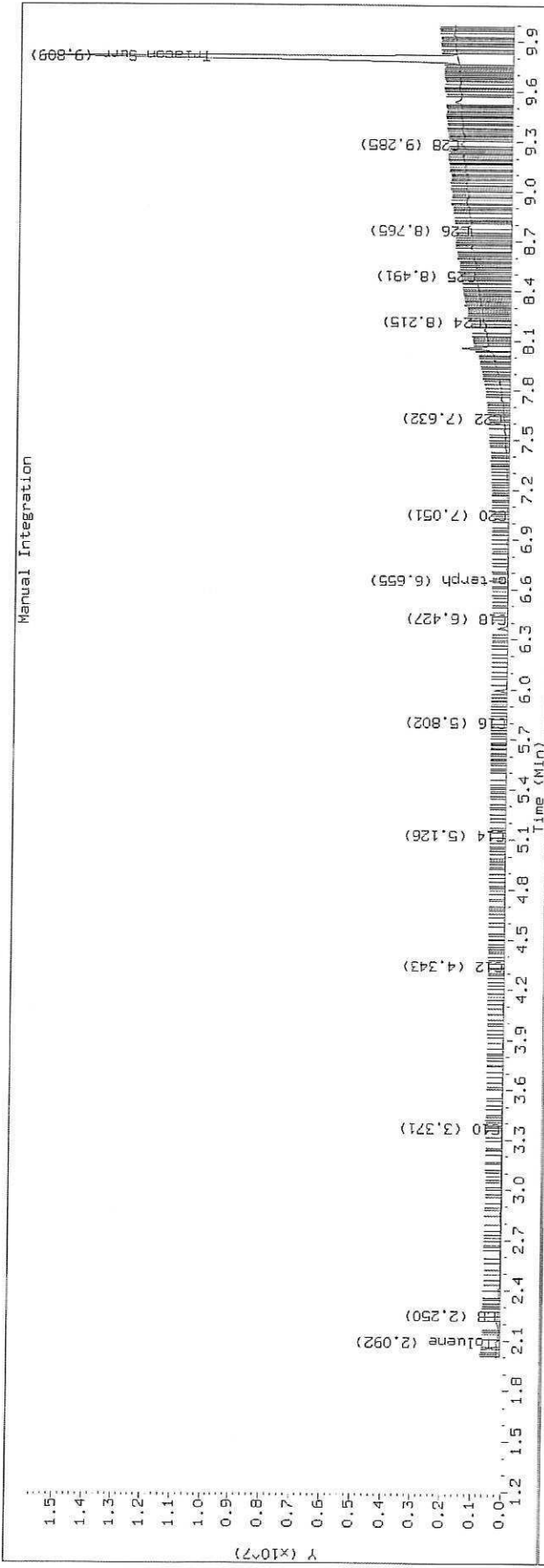
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

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

HP6890 GC Data, FID1A.CH

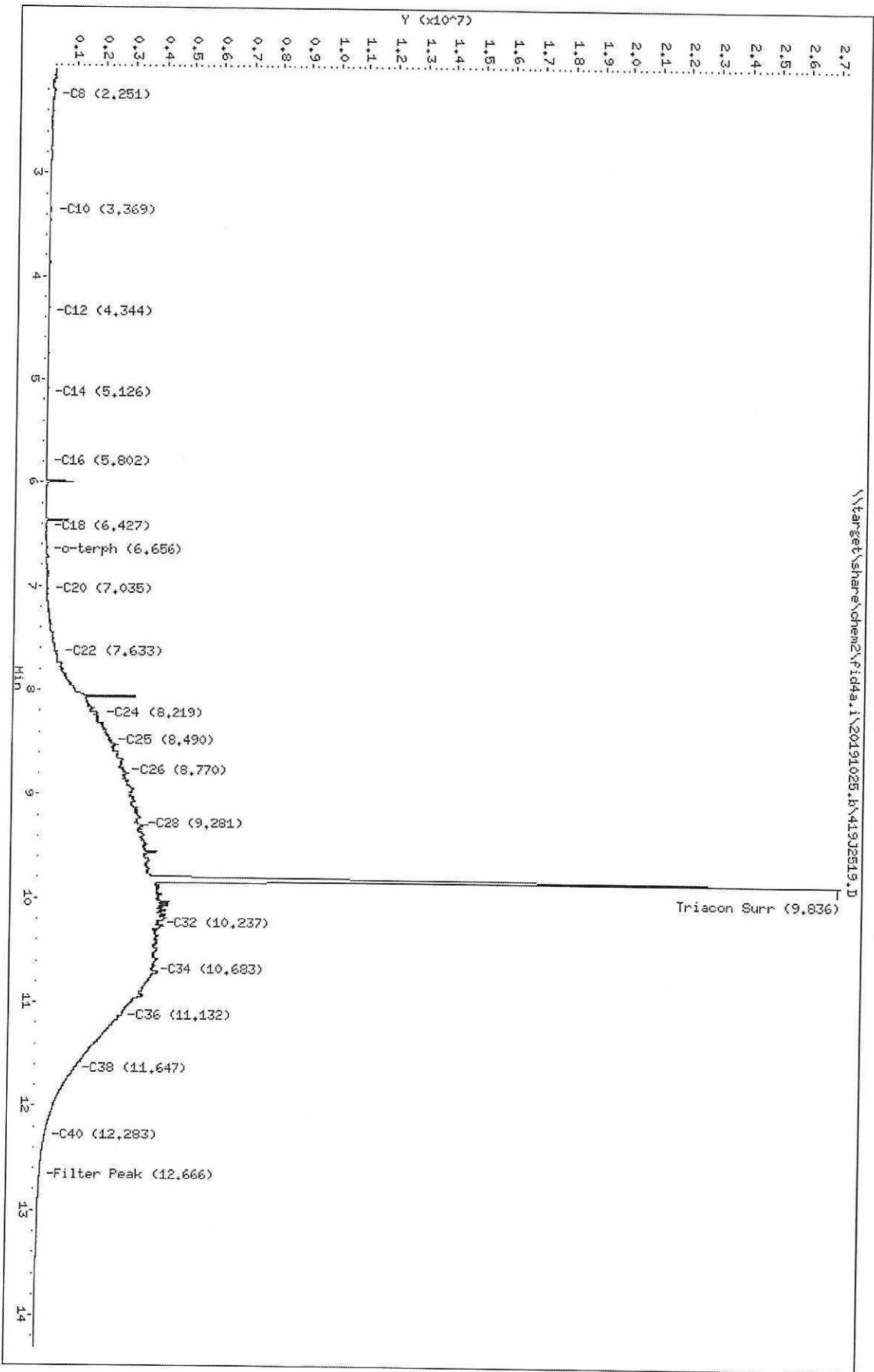


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2518.D Injection: 25-OCT-2019 17:34
 Lab ID: SHJ0406-CALB



Data File: \\target\share\chem2\fid4a.i\20191025.bv419J2519.D
 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)

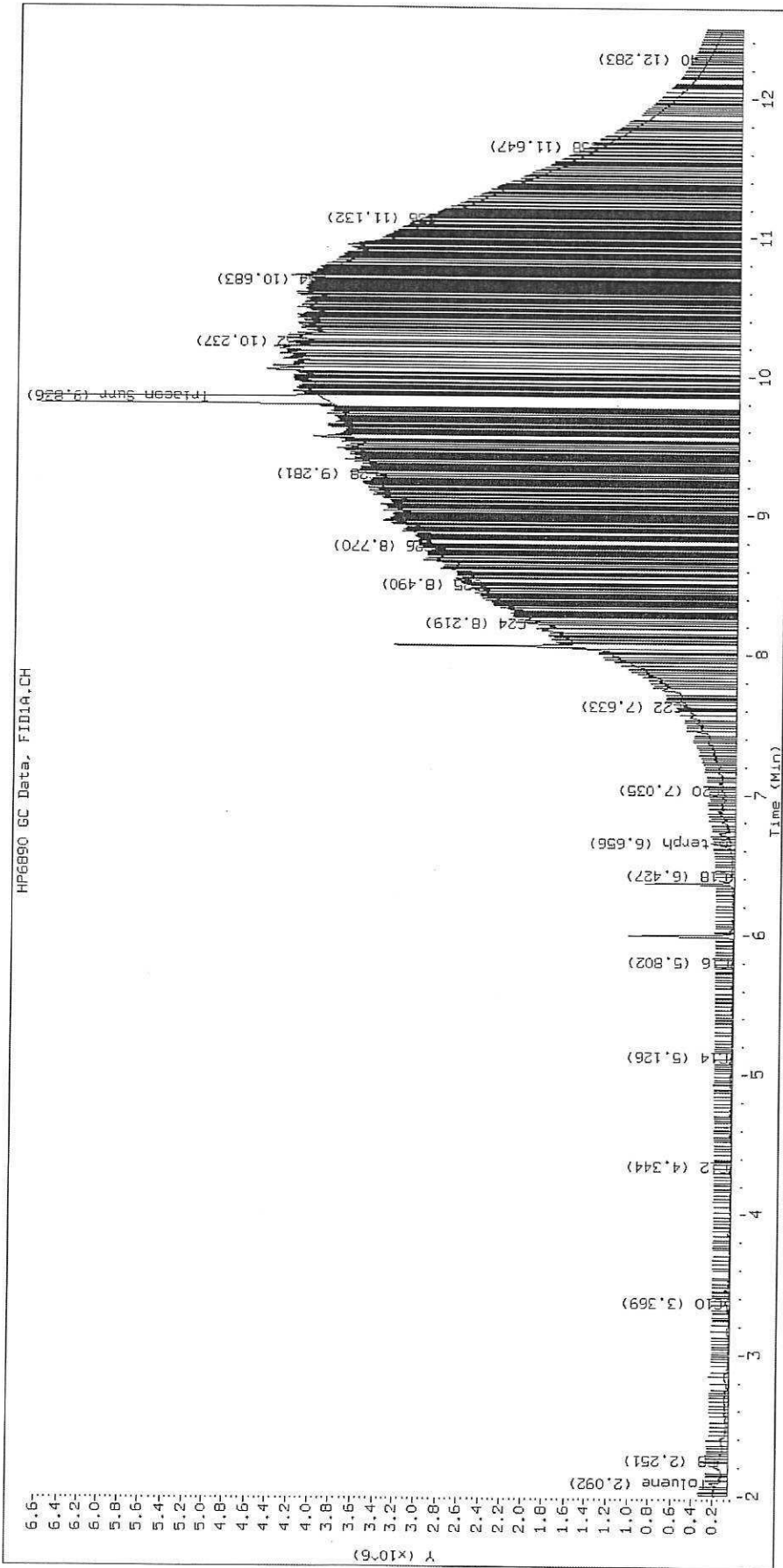
Surrogate	Area	Amount
o-Terphenyl	66343	0.3
Triacotane	39698048	223.0 M

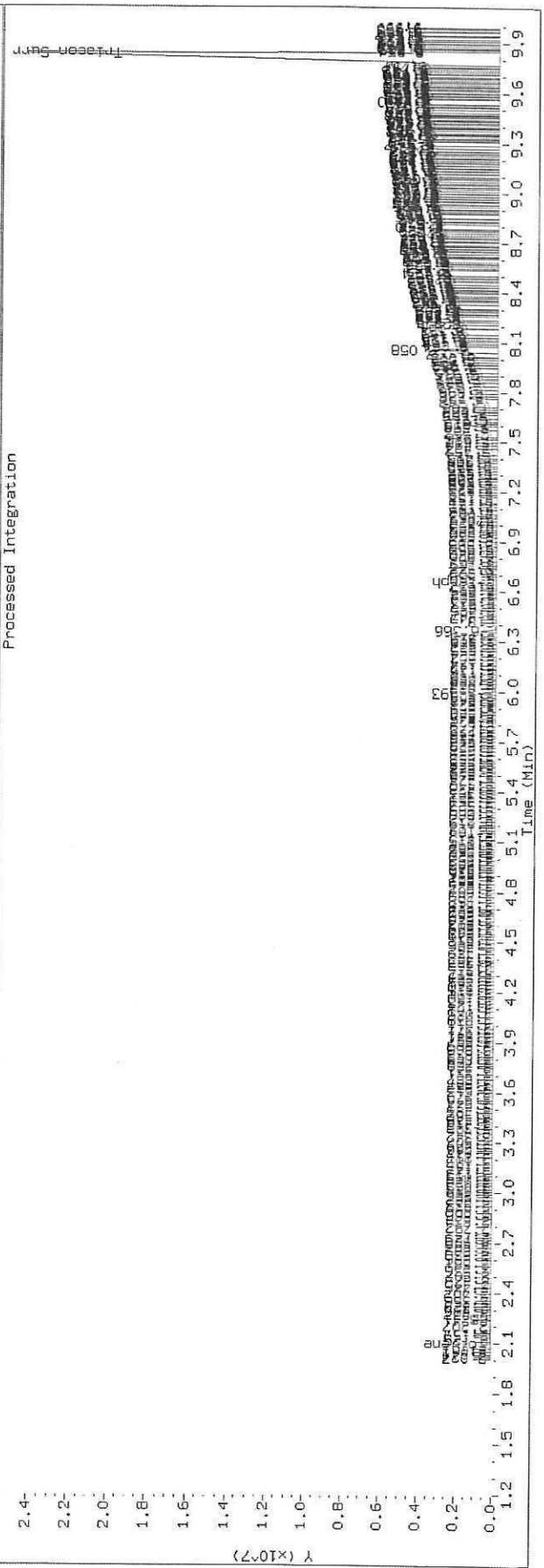
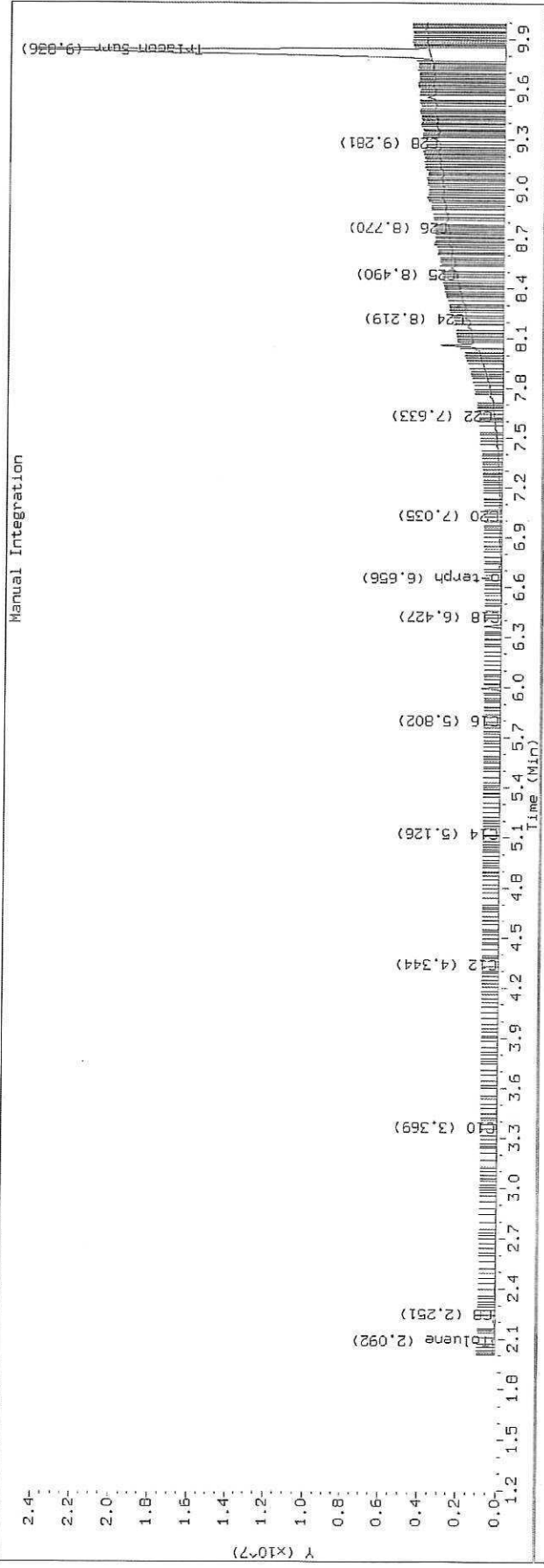
M Indicates the peak was manually integrated

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

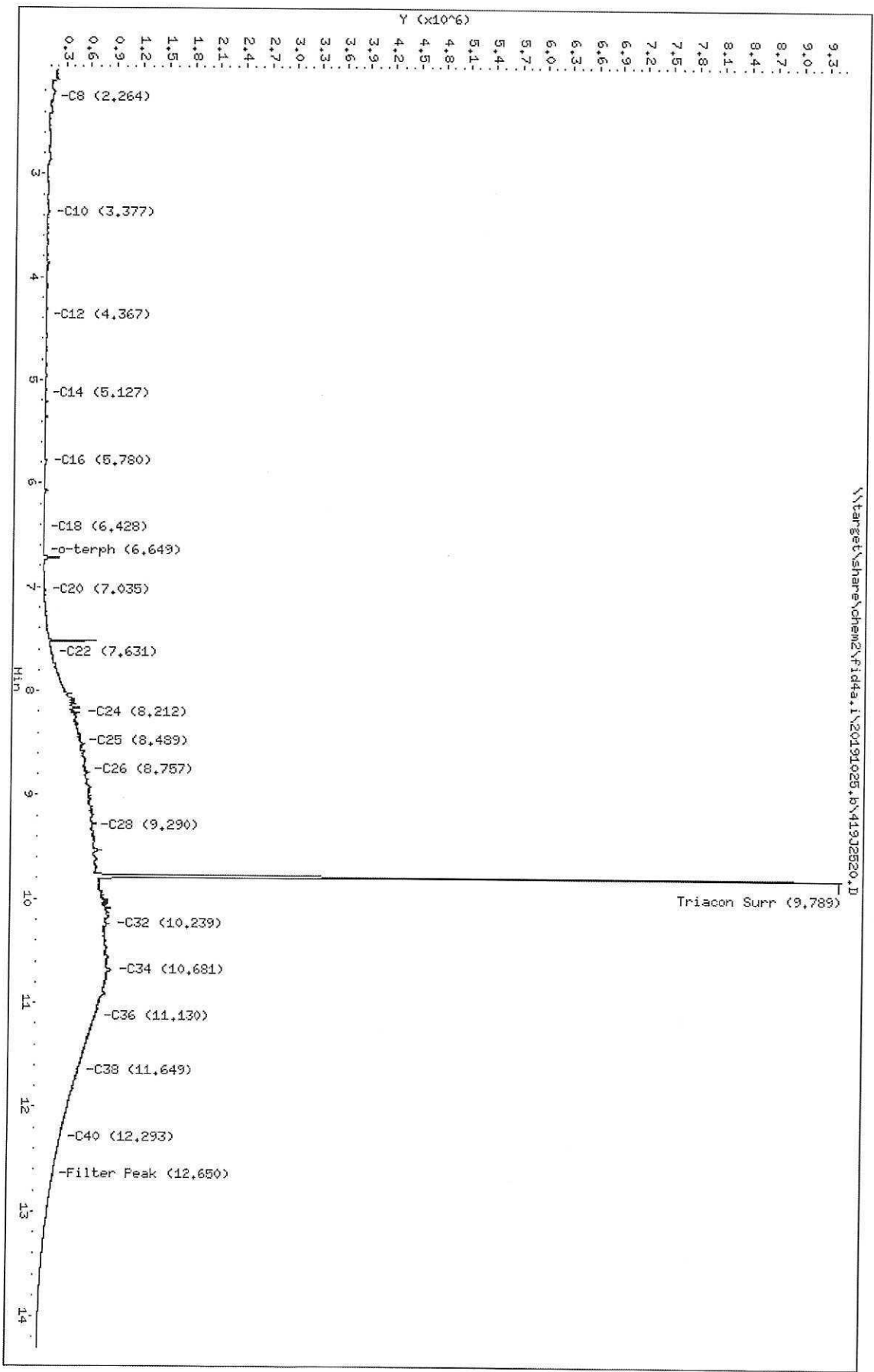
HP6890 GC Data, FID1A.CH





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

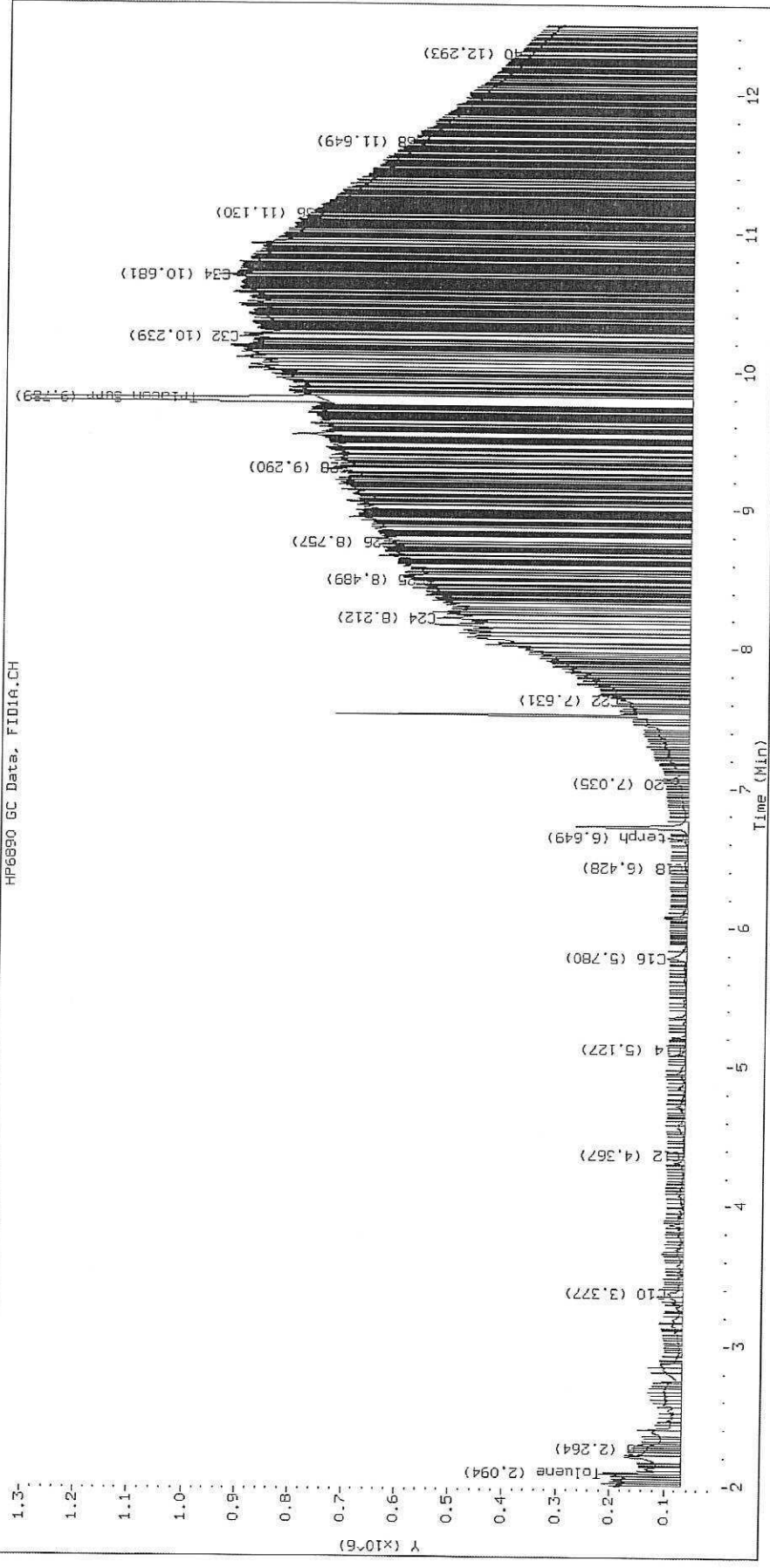
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

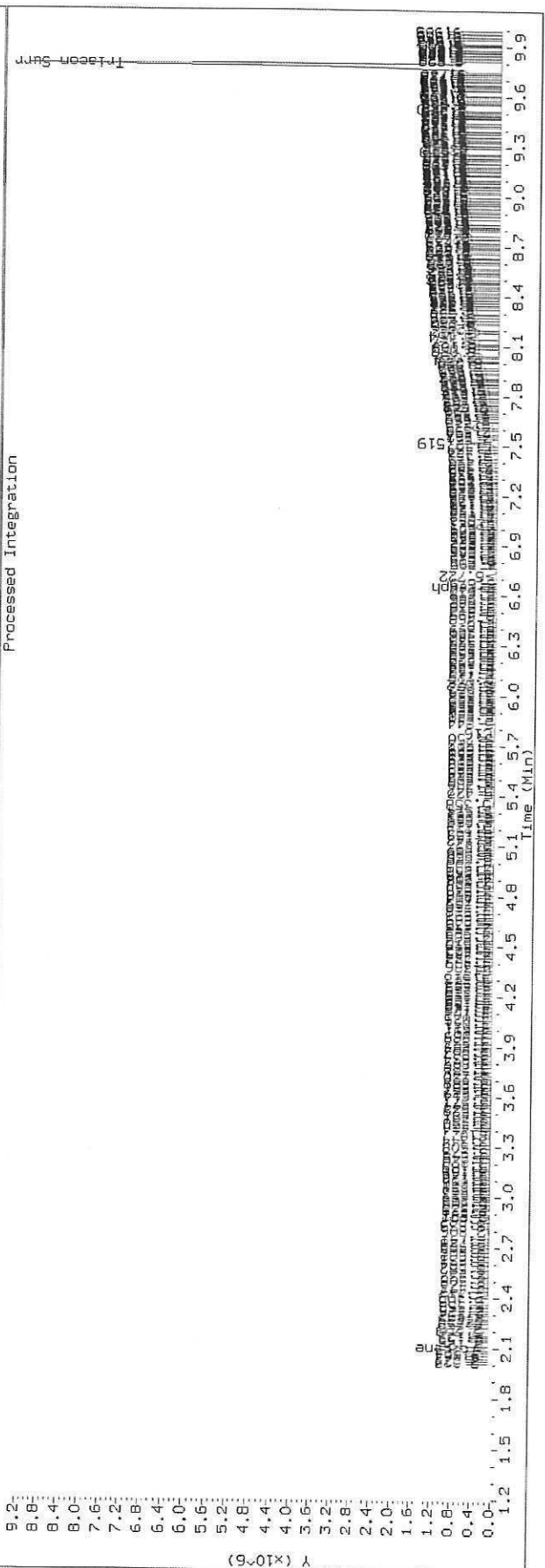
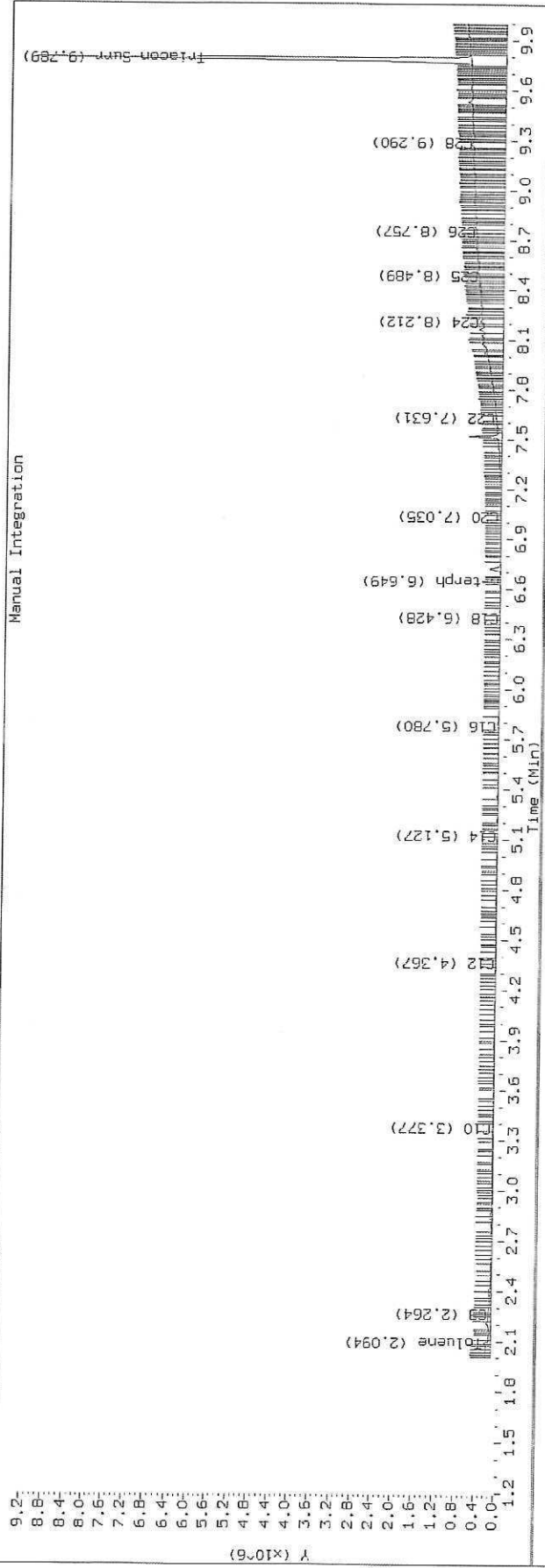
Surrogate	Area	Amount
o-Terphenyl	3699	0.0
Triacontane	8519530	47.9 M

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

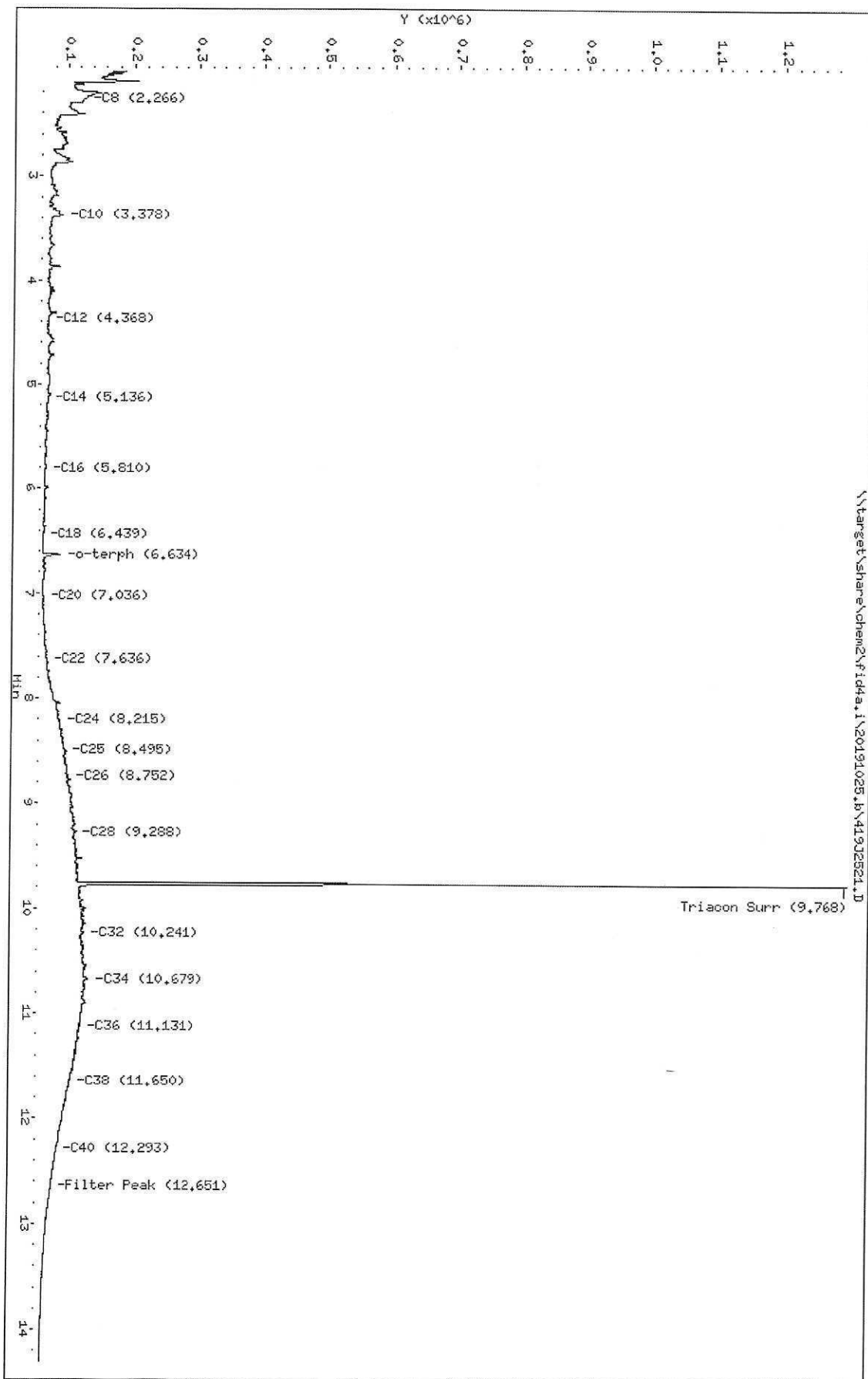
Datafile: FID4A, 20191025.b/419J2520.D SHJ0406-SCV2





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)

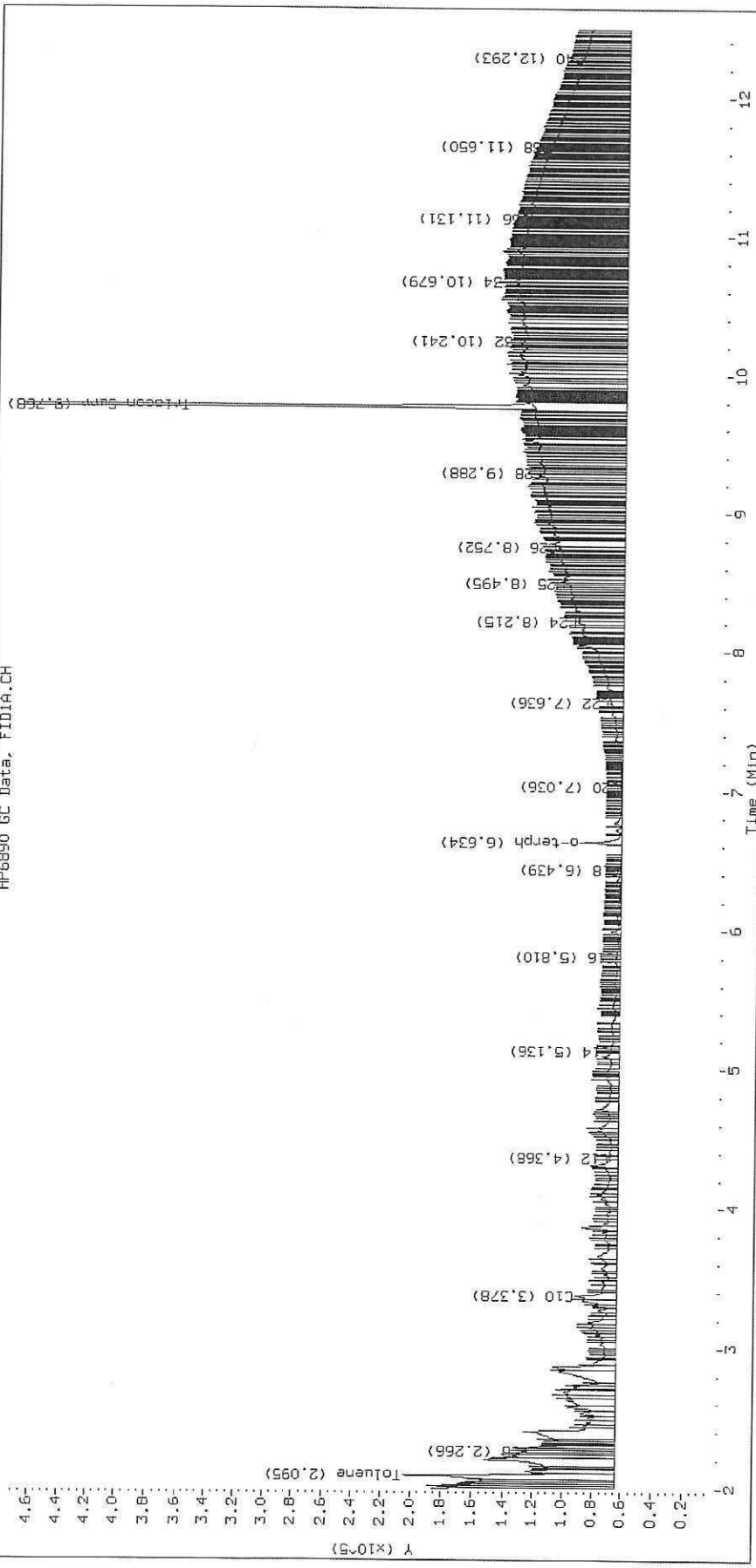
Surrogate	Area	Amount
o-Terphenyl	34405	0.2
Triacotane	818277	4.6 M

M Indicates the peak was manually integrated

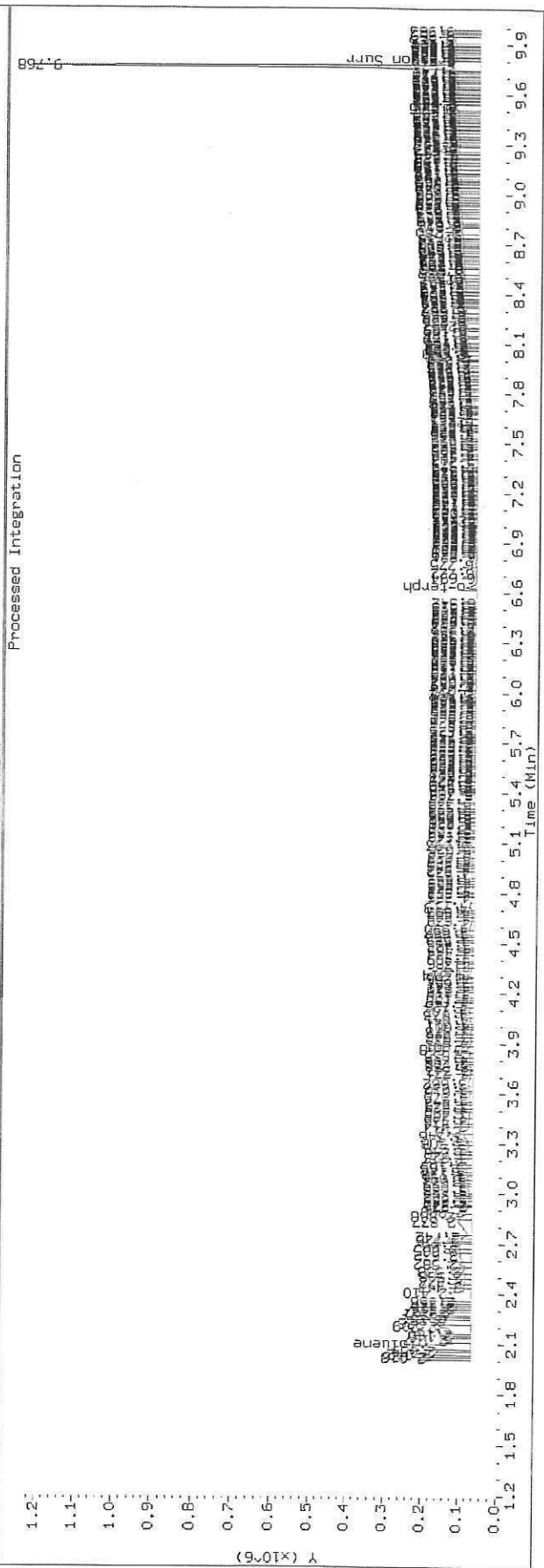
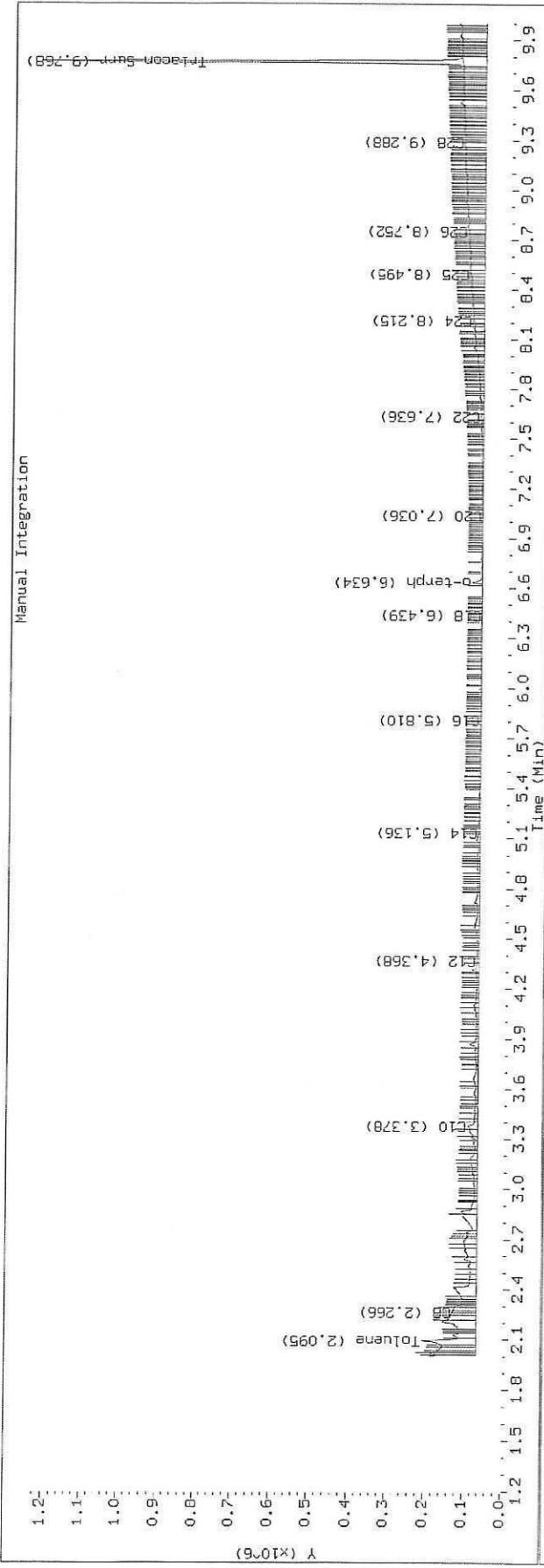
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

Datafile: FID4A, 20191025.b/419J2521.D SHJ0406-CALD

HP6890 GC Data, FID1A.CH

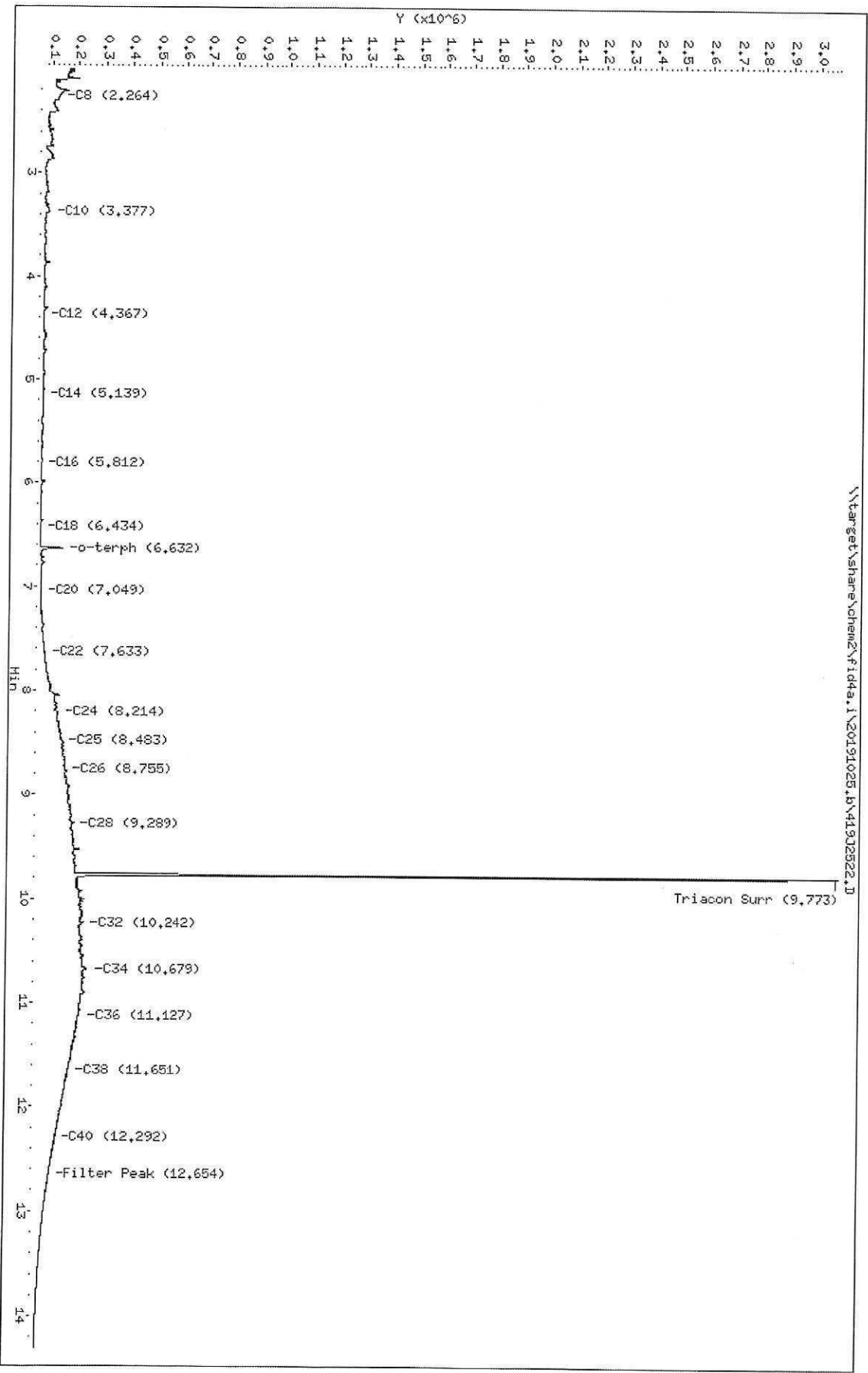


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2521.D Injection: 25-OCT-2019 18:35
 Lab ID: SHJ0406-CALD



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)

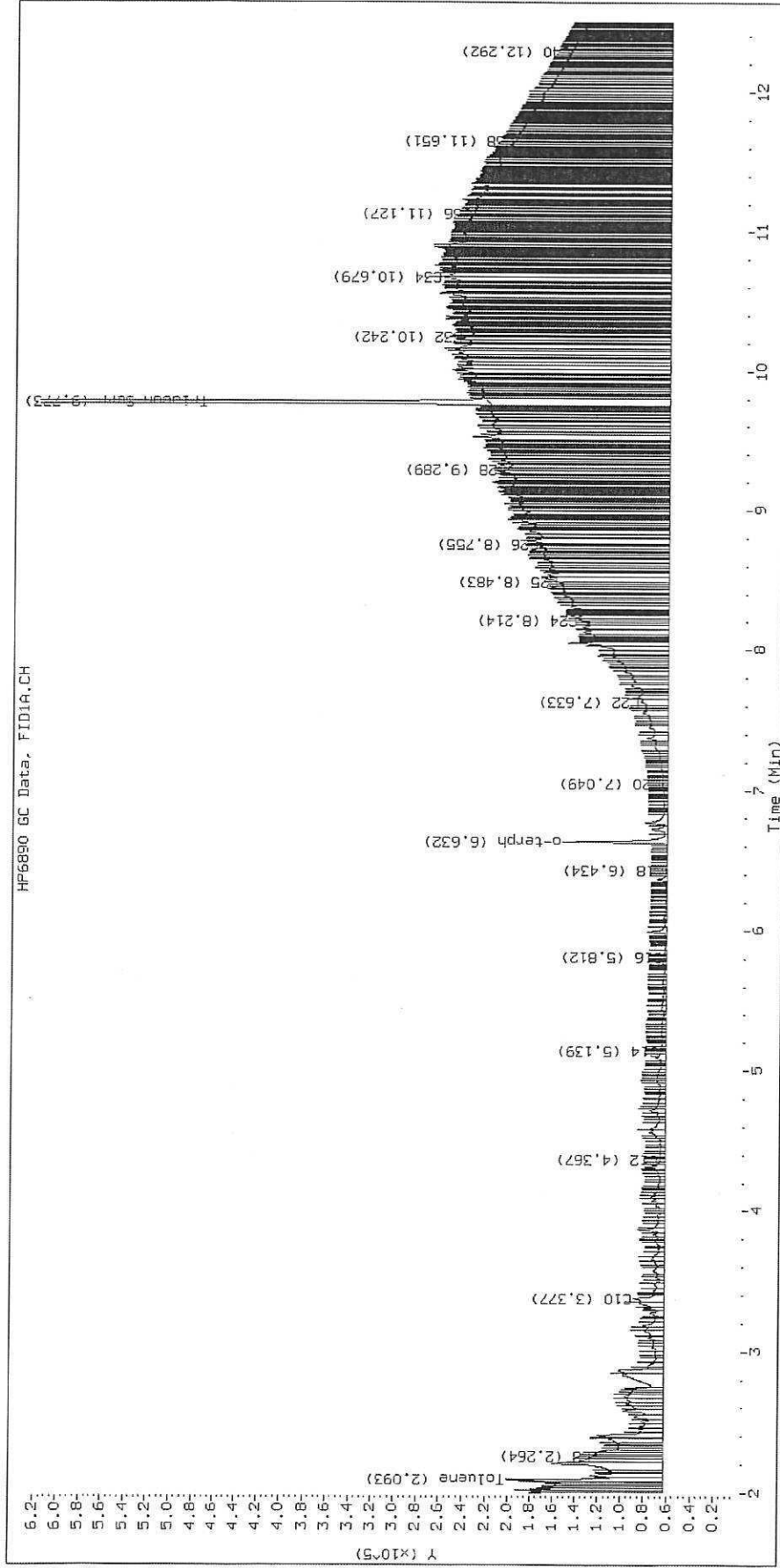
Surrogate	Area	Amount
o-Terphenyl	90689	0.4
Triacontane	2058184	11.6 M

M Indicates the peak was manually integrated

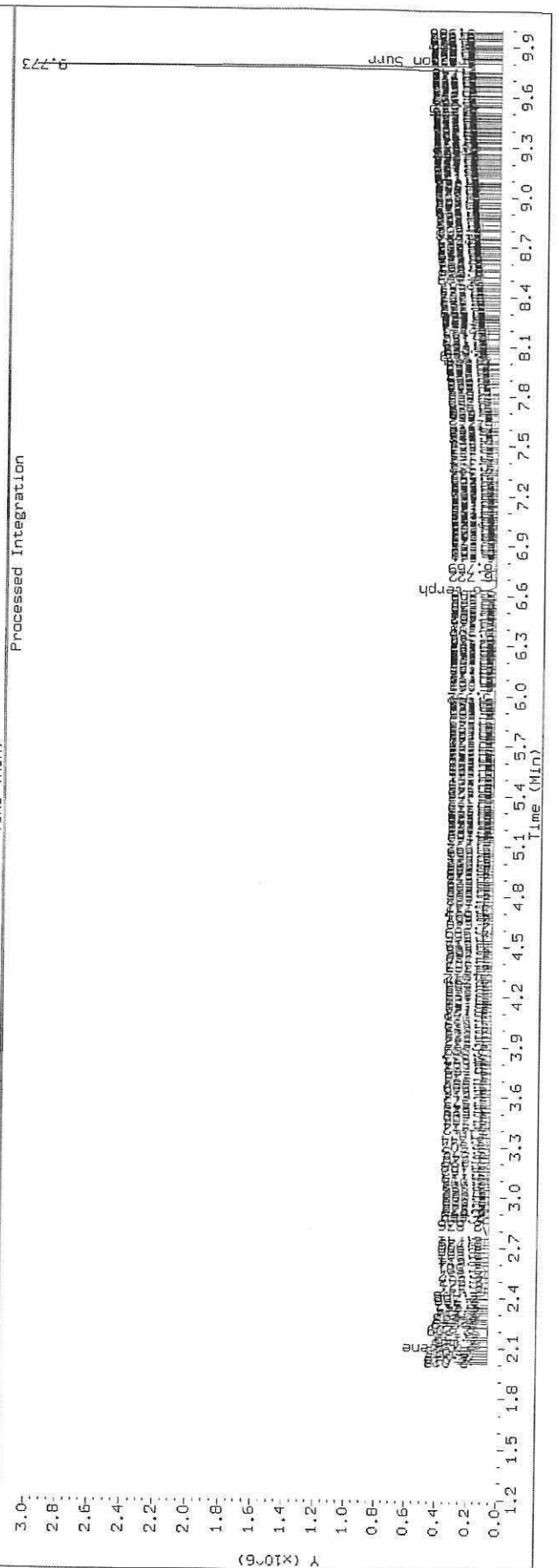
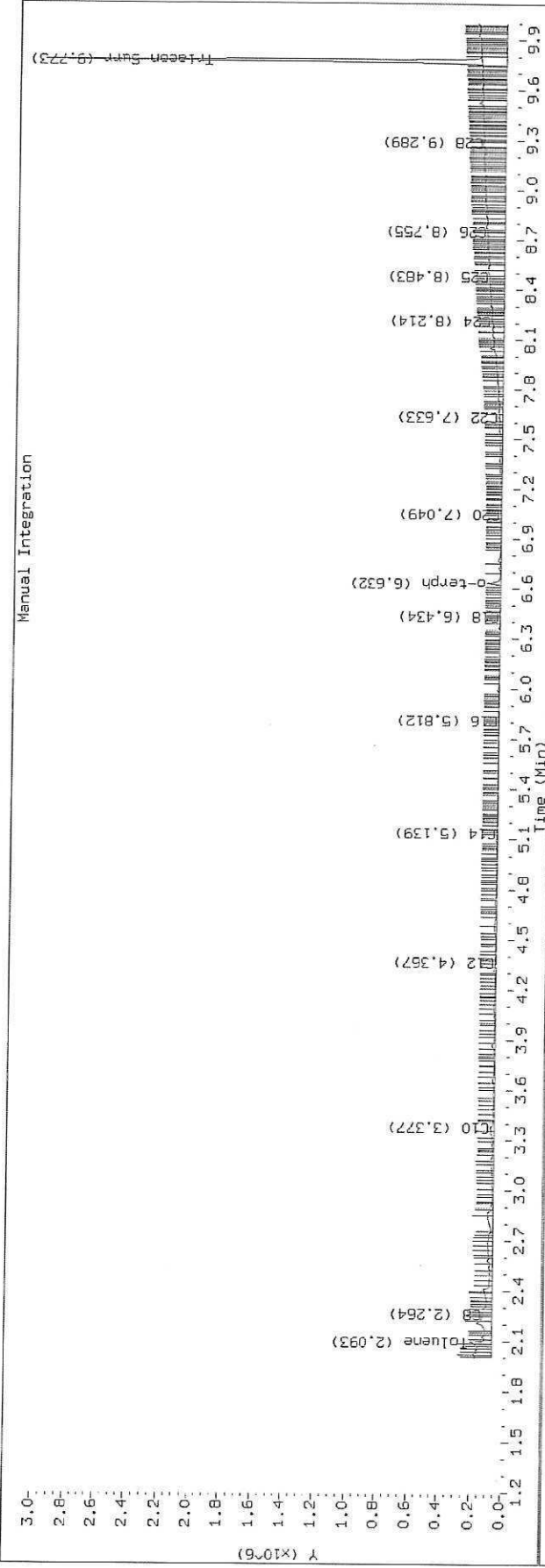
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

Datafile: FID4A, 20191025.b/419J2522.D SHJ0406-CALE

HP6890 GC Data, FID1A.CH

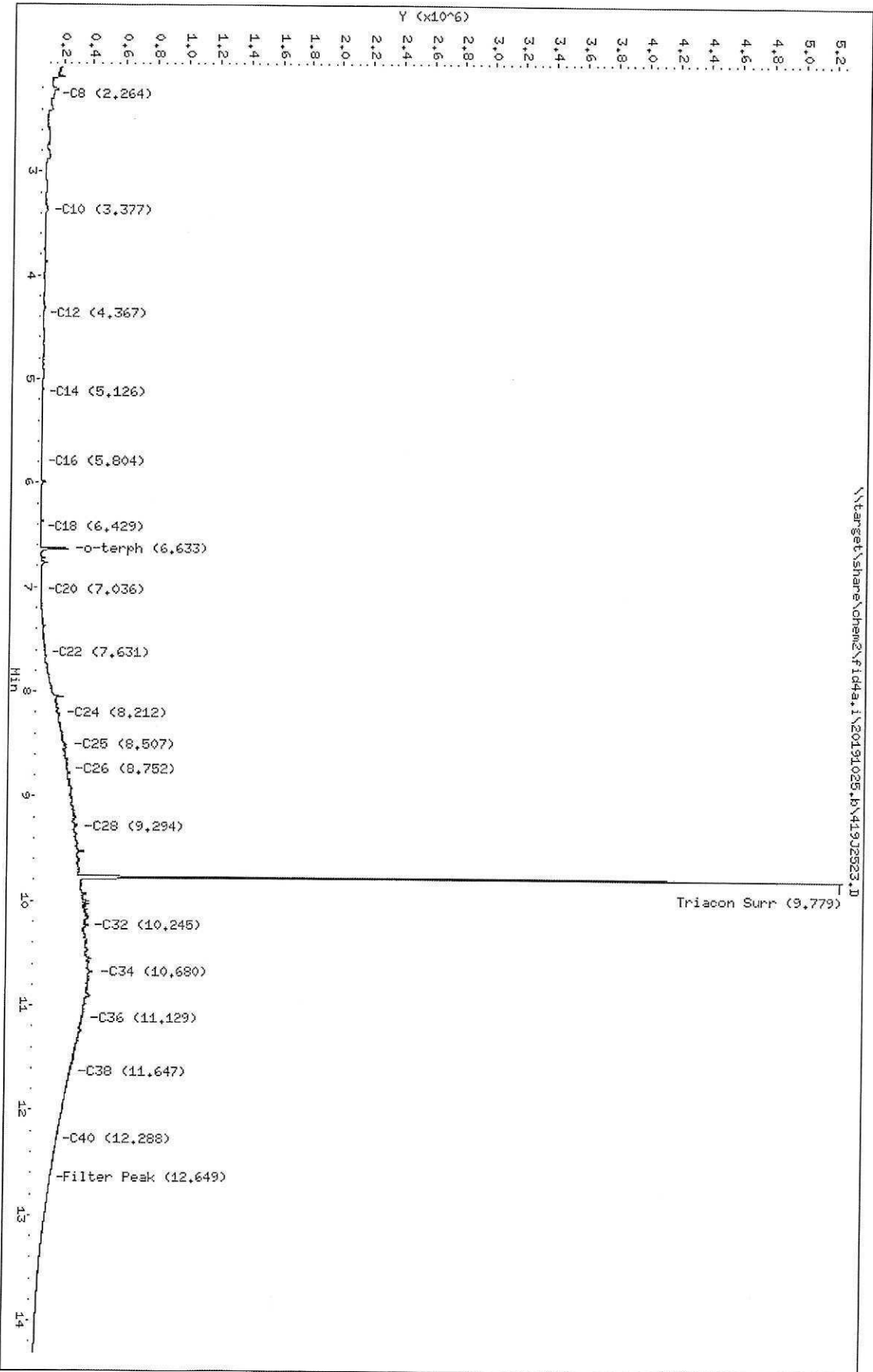


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2522.D Injection: 25-OCT-2019 18:55
 Lab ID: SHJ0406-CALE



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

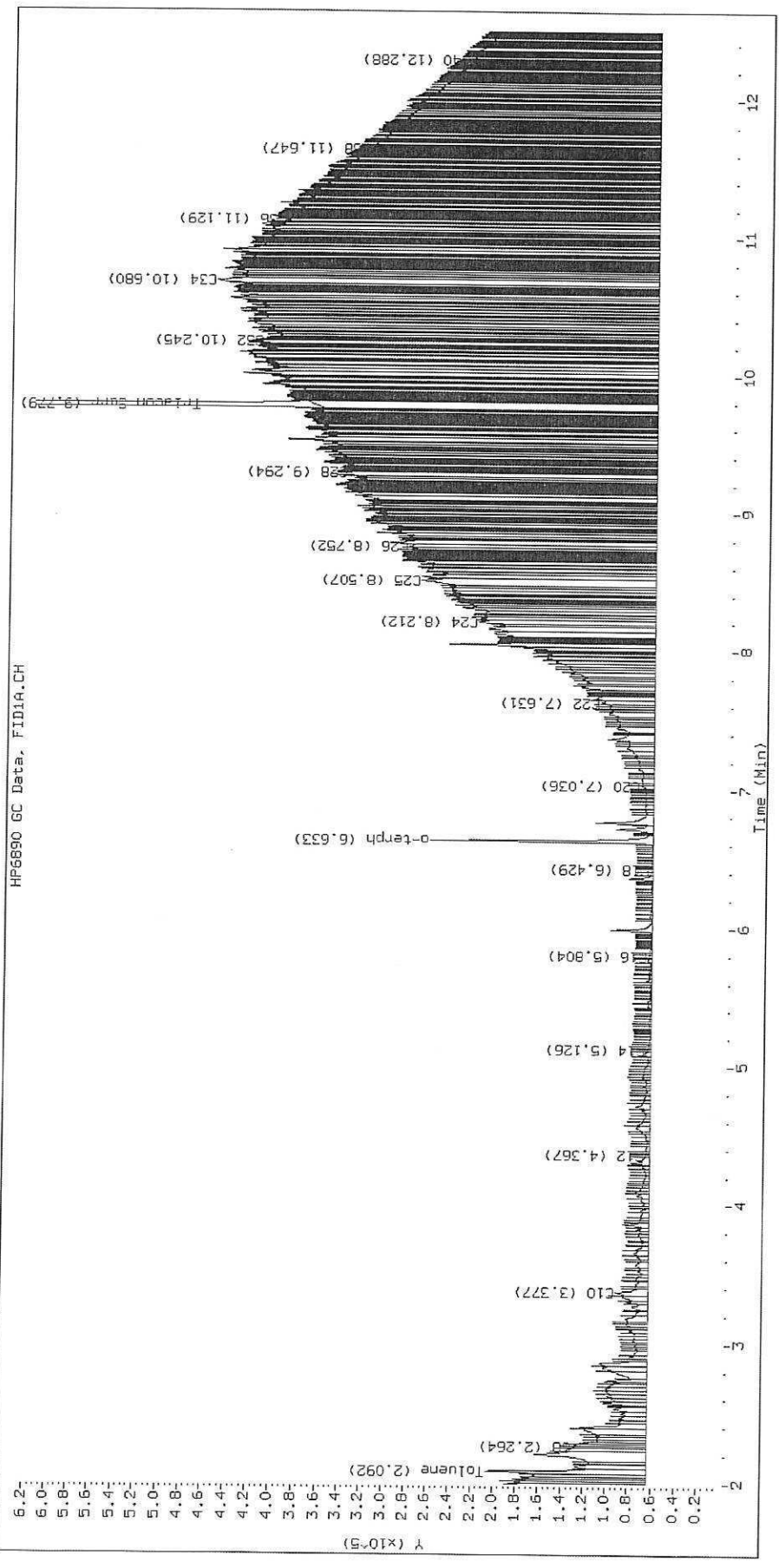
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

Surrogate	Area	Amount
o-Terphenyl	176995	0.9
Triacotane	3941895	22.1 M

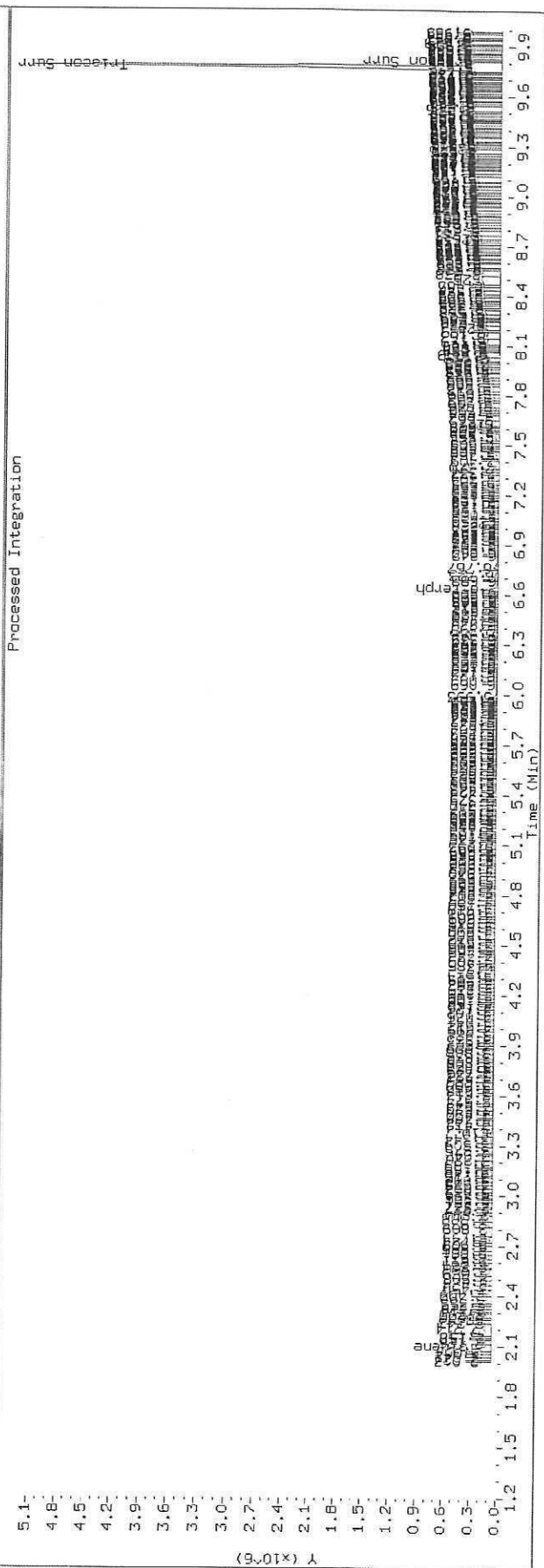
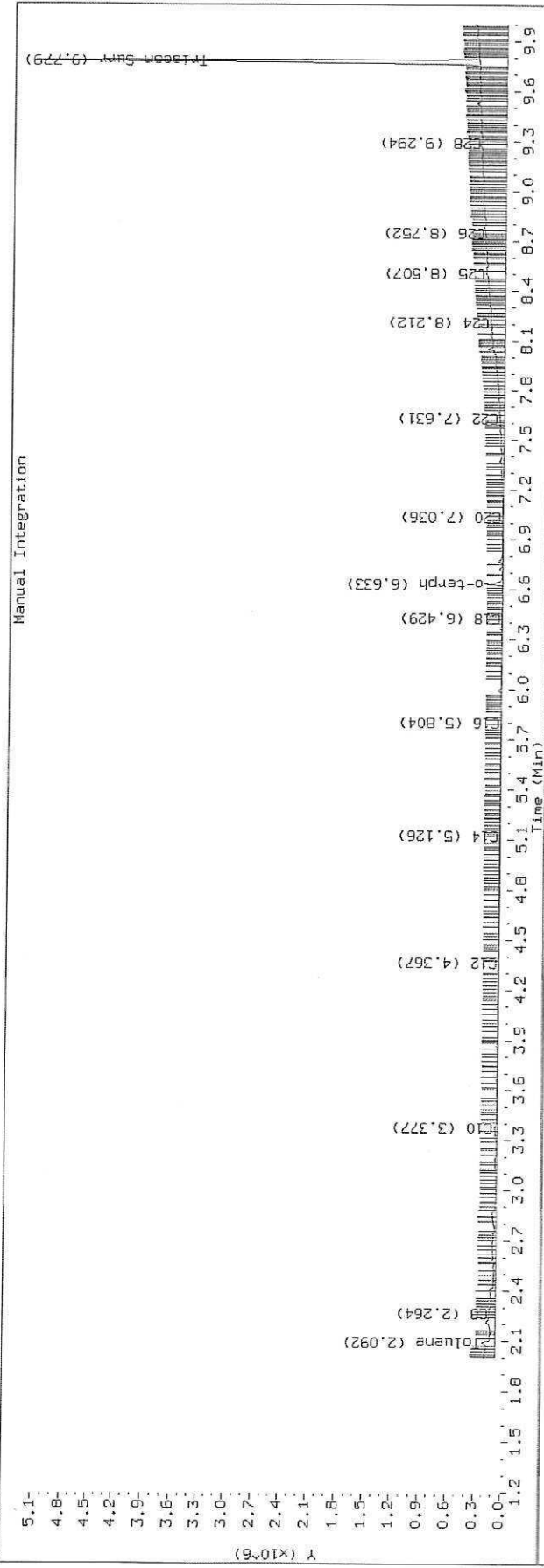
M Indicates the peak was manually integrated

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

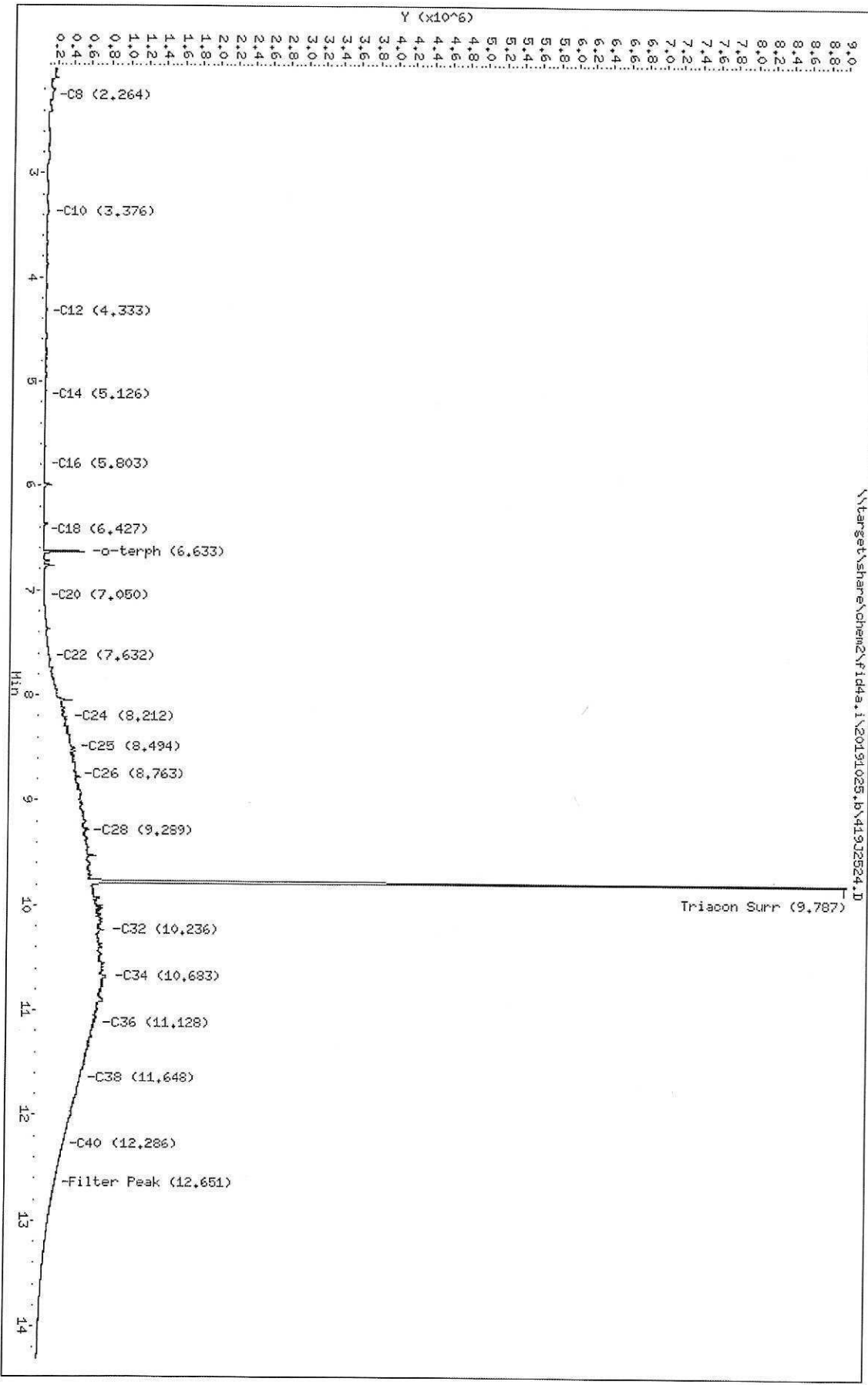


TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419J2523.D Injection: 25-OCT-2019 19:15
 Lab ID: SHJ0406-CALF



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

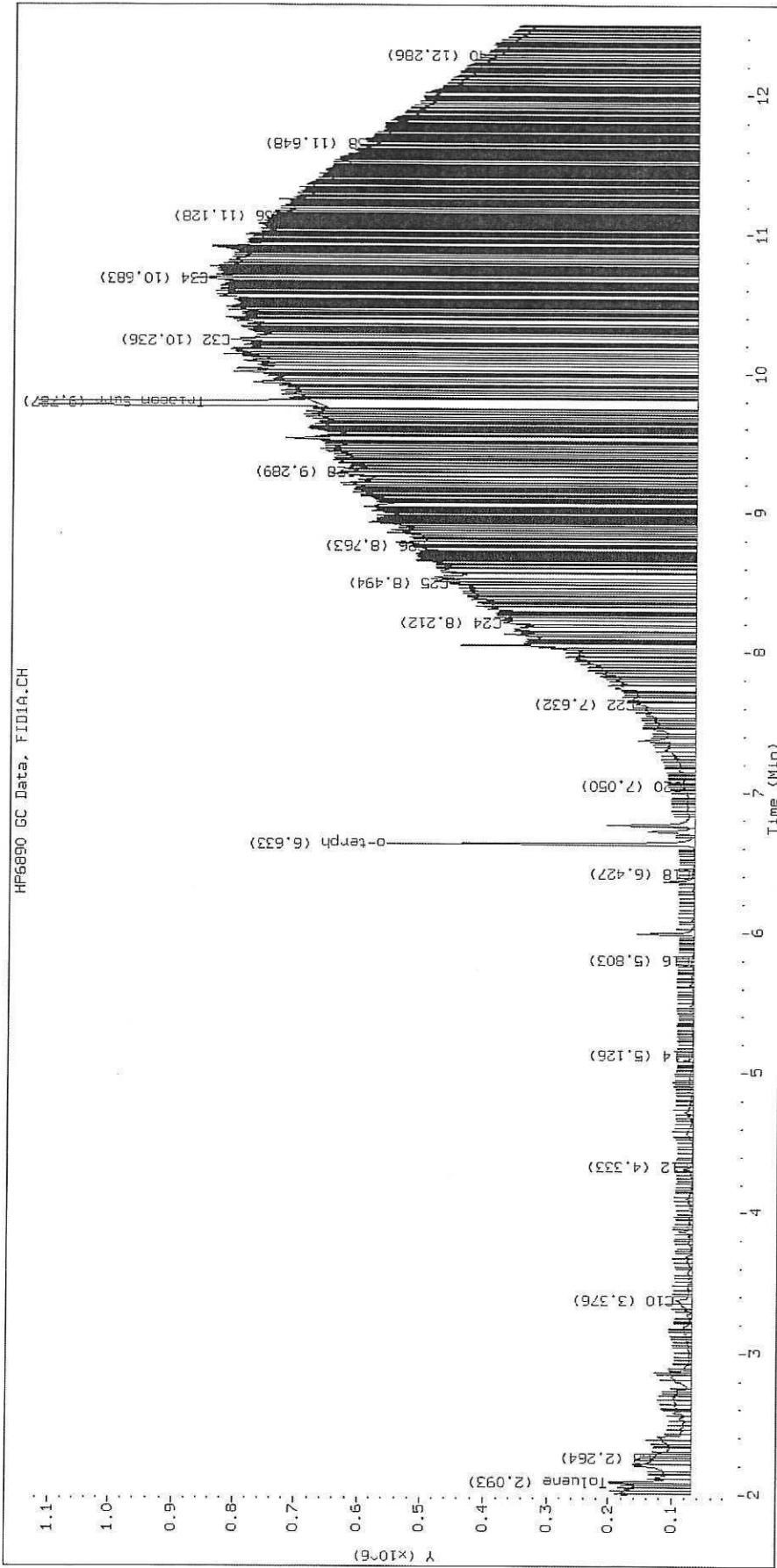
Range Times: NW Diesel(4.347 - 8.215) AK102(3.37 - 8.49) Jet A(3.37 - 6.43)
NW M.Oil(8.21 - 11.65) AK103(8.49 - 11.13) OR Diesel(3.37 - 9.29)

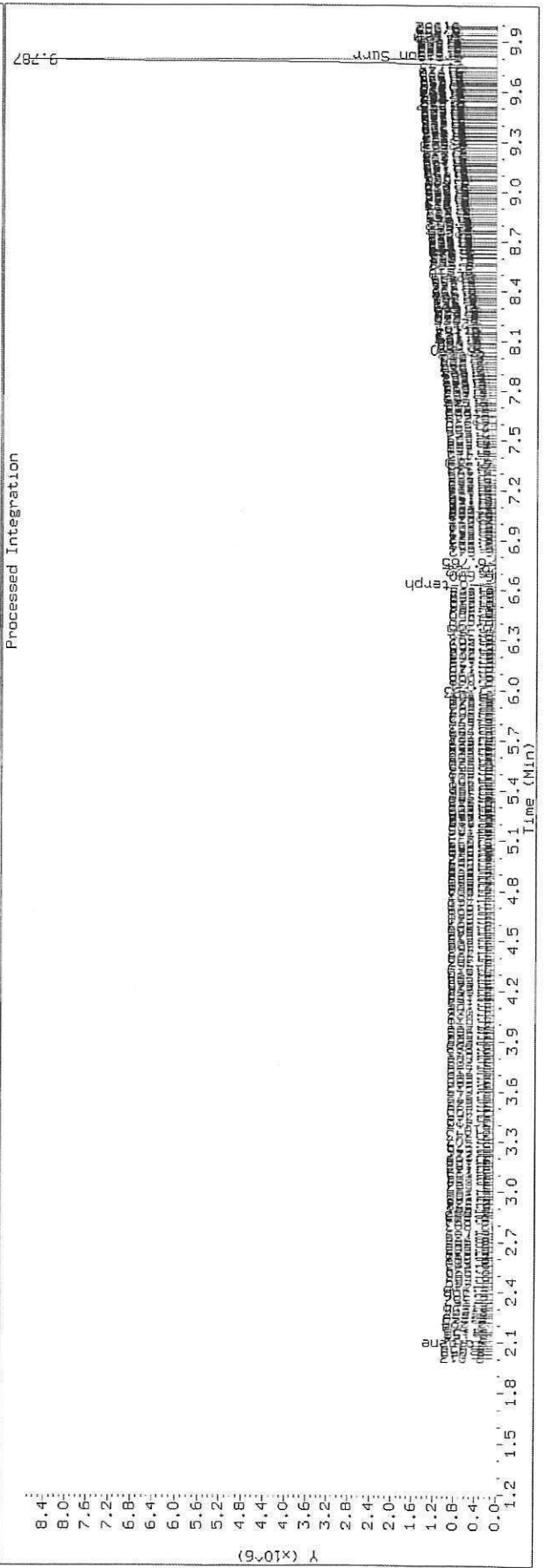
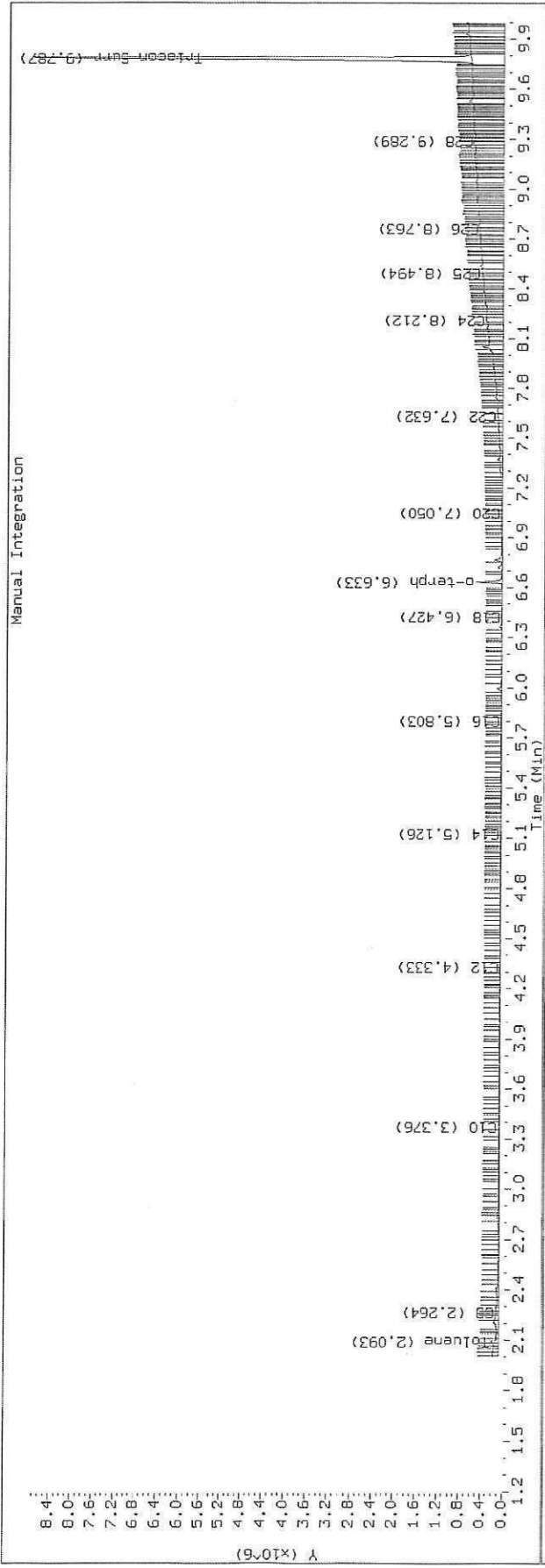
Surrogate	Area	Amount
o-Terphenyl	368237	1.8
Triacontane	7933666	44.6 M

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

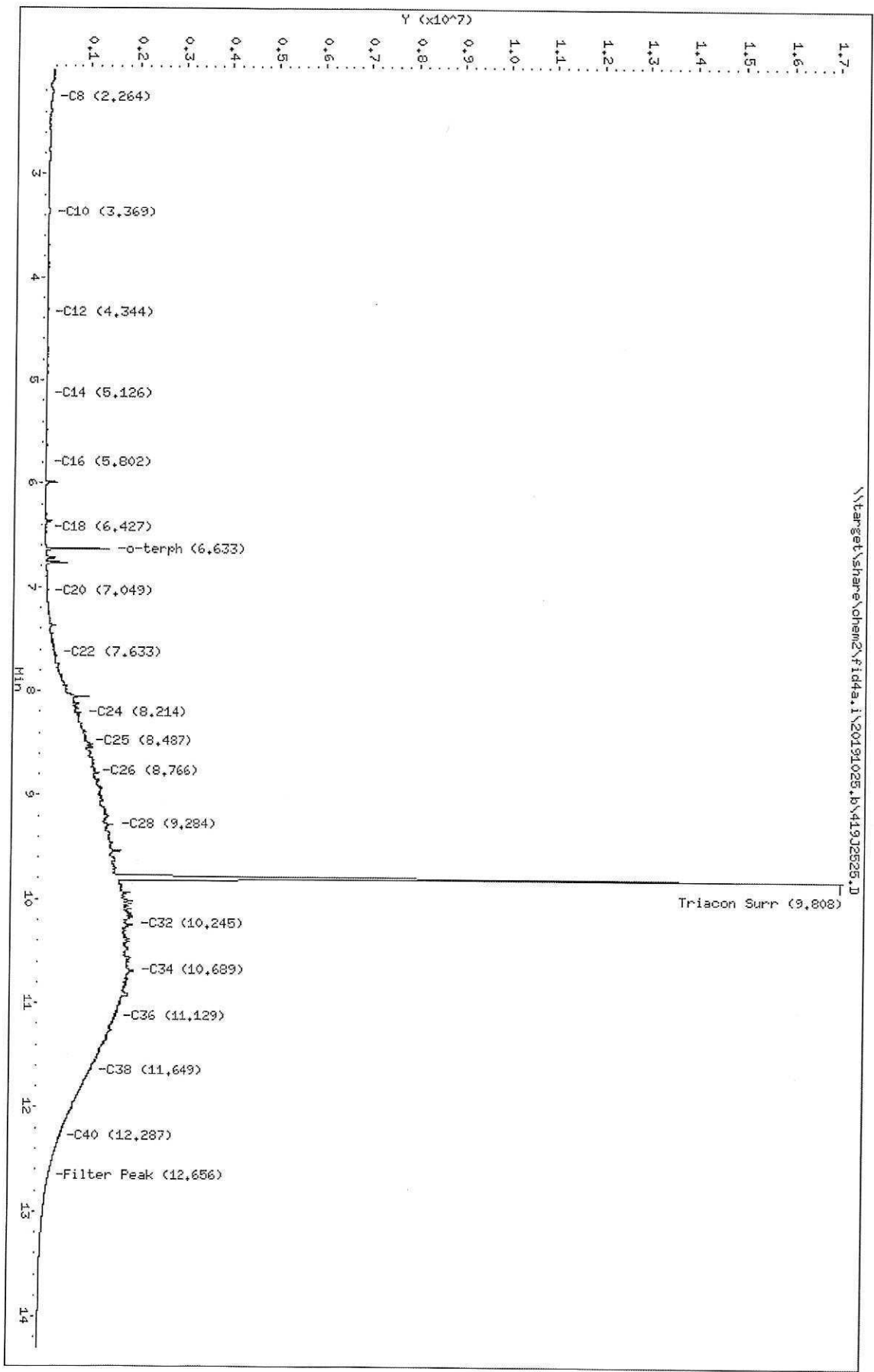
Datafile: FID4A, 20191025.b/419J2524.D SHJ0406-CALG





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)

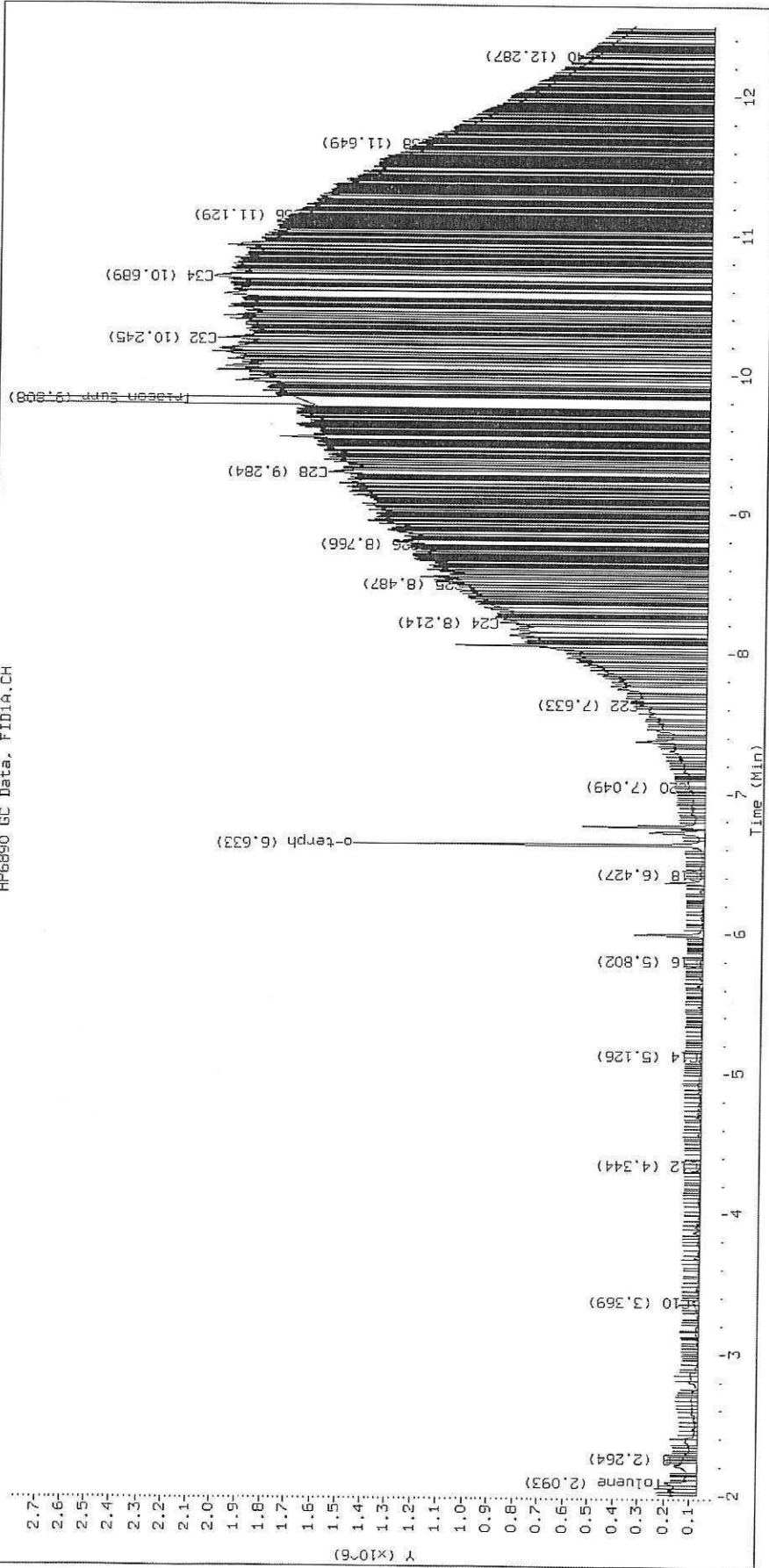
Surrogate	Area	Amount
o-Terphenyl	962768	4.7
Triacotane	20436973	114.8 M

M Indicates the peak was manually integrated

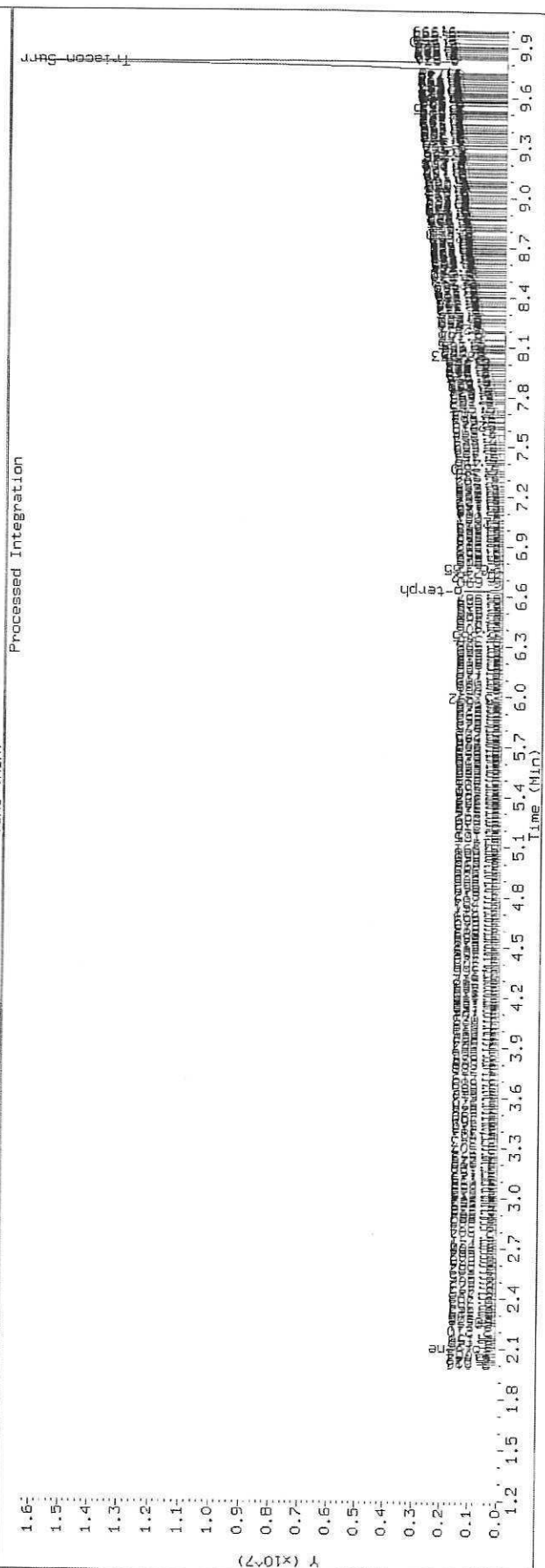
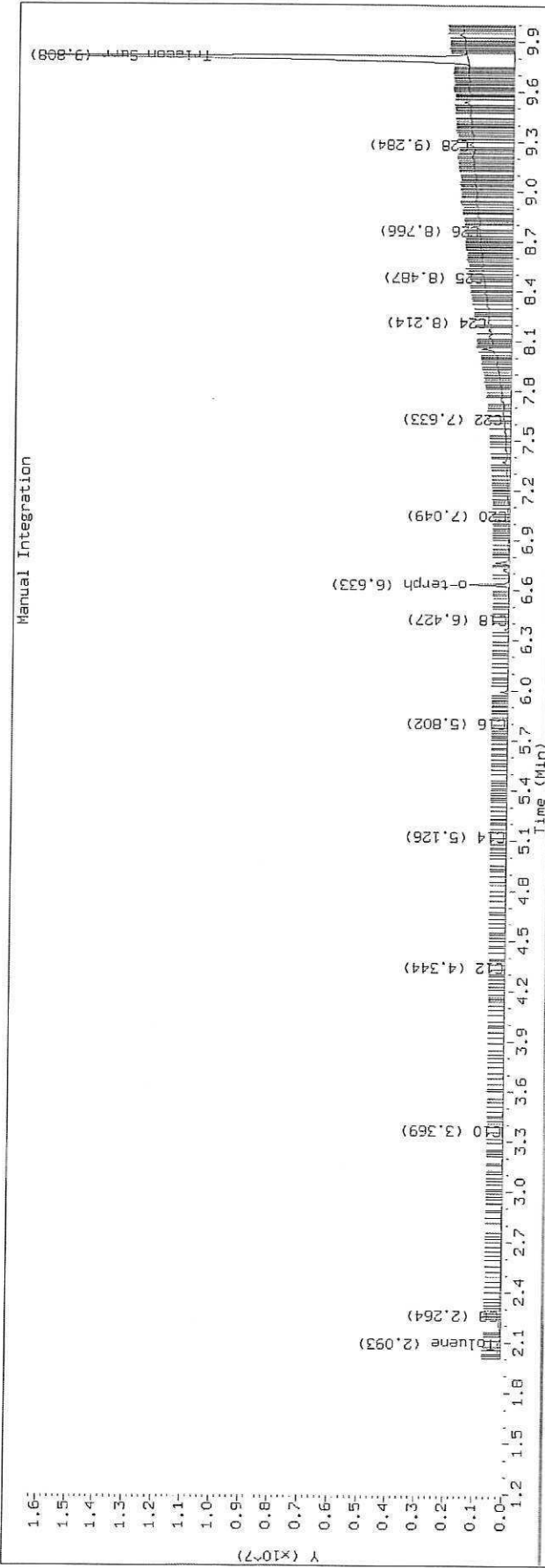
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

Datafile: FID4A, 20191025.b/419J2525.D SHJ0406-CALH

HF6890 GC Data, FID1A.CH



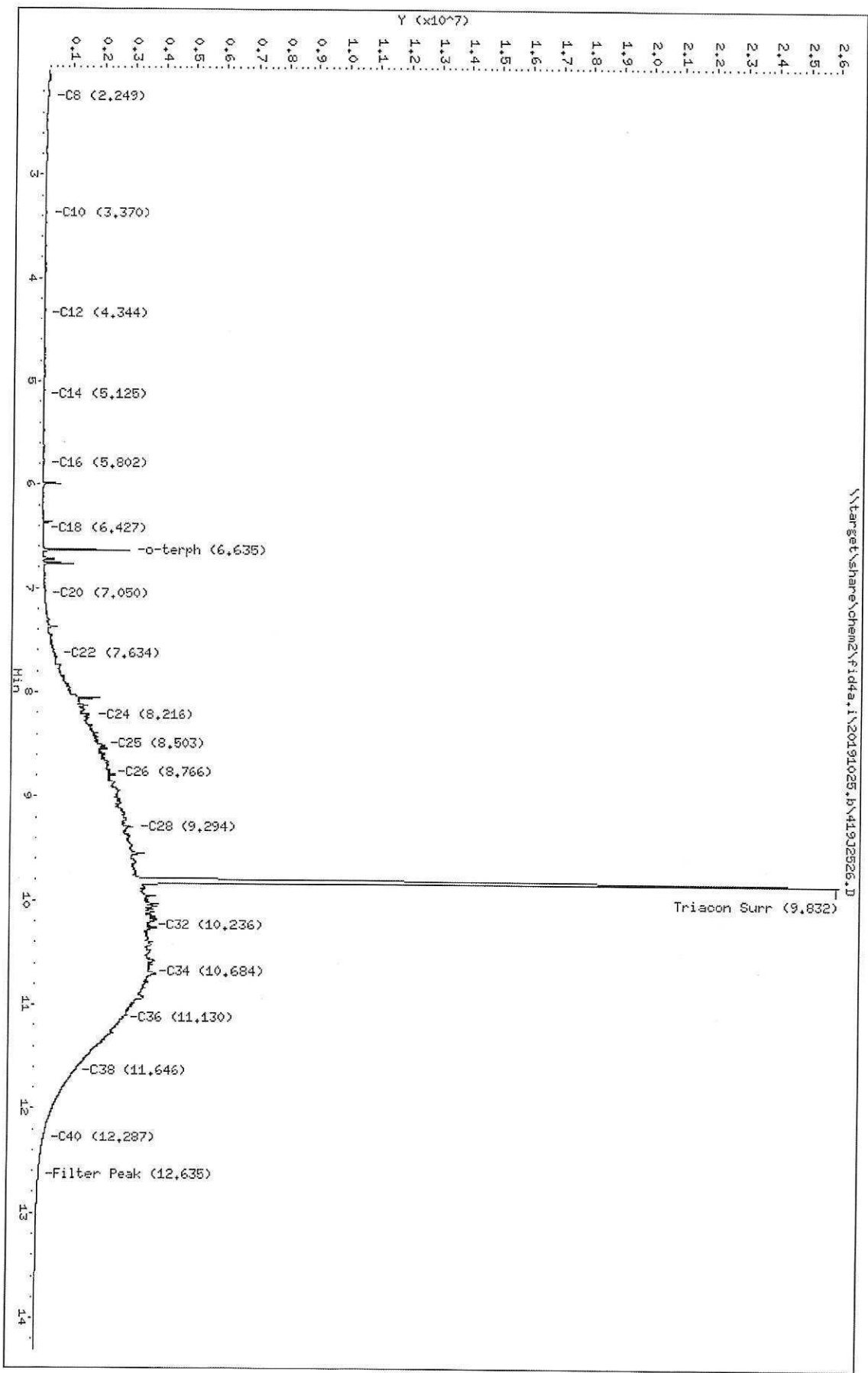
TPH Manual Integrations Report
 Datafile: FID4A, 20191025.b/419U2525.D Injection: 25-OCT-2019 19:54
 Lab ID: SHJ0406-CALH



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)

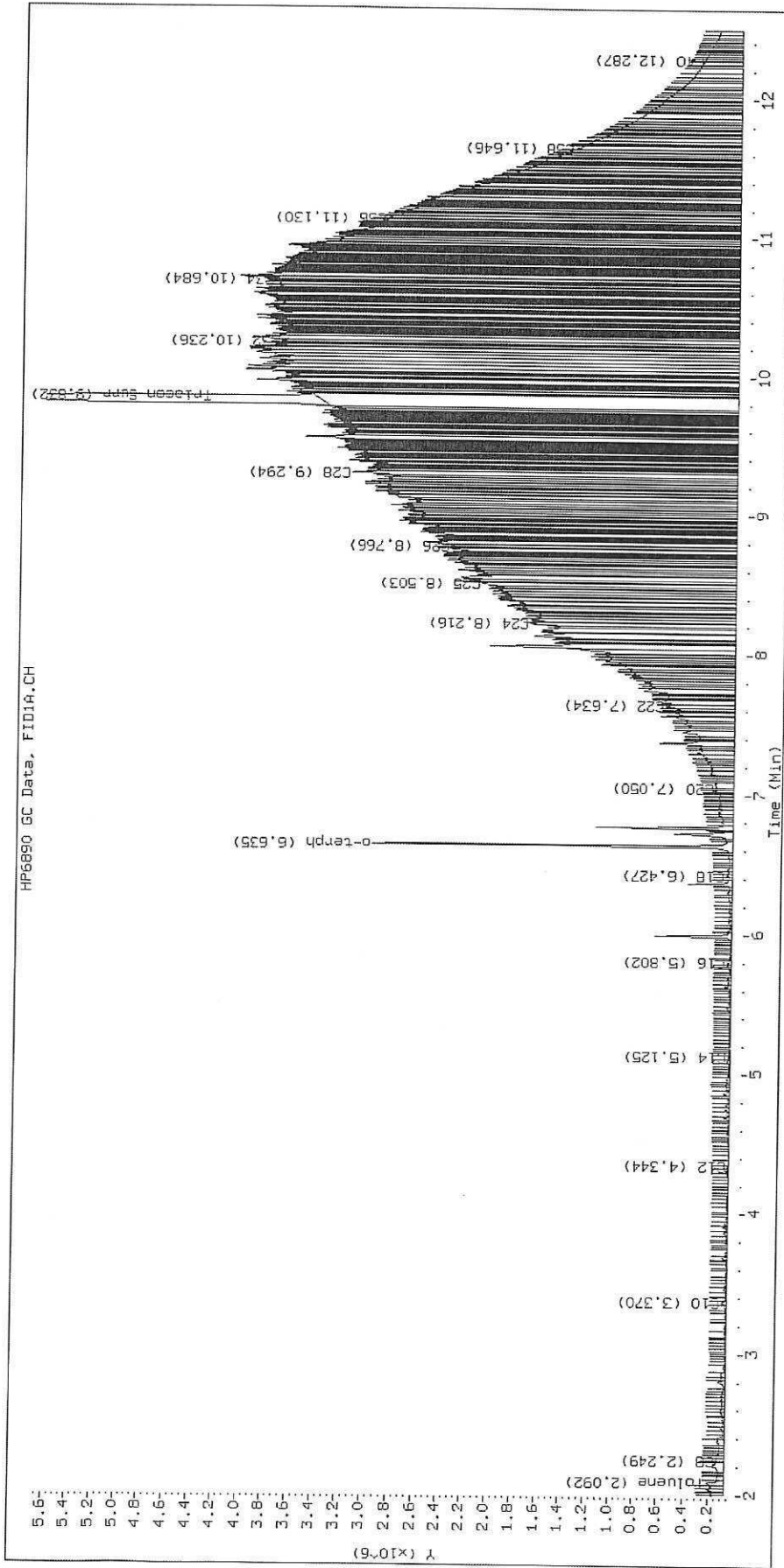
Surrogate	Area	Amount
o-Terphenyl	1975795	9.7
Triacontane	40251878	226.2 M

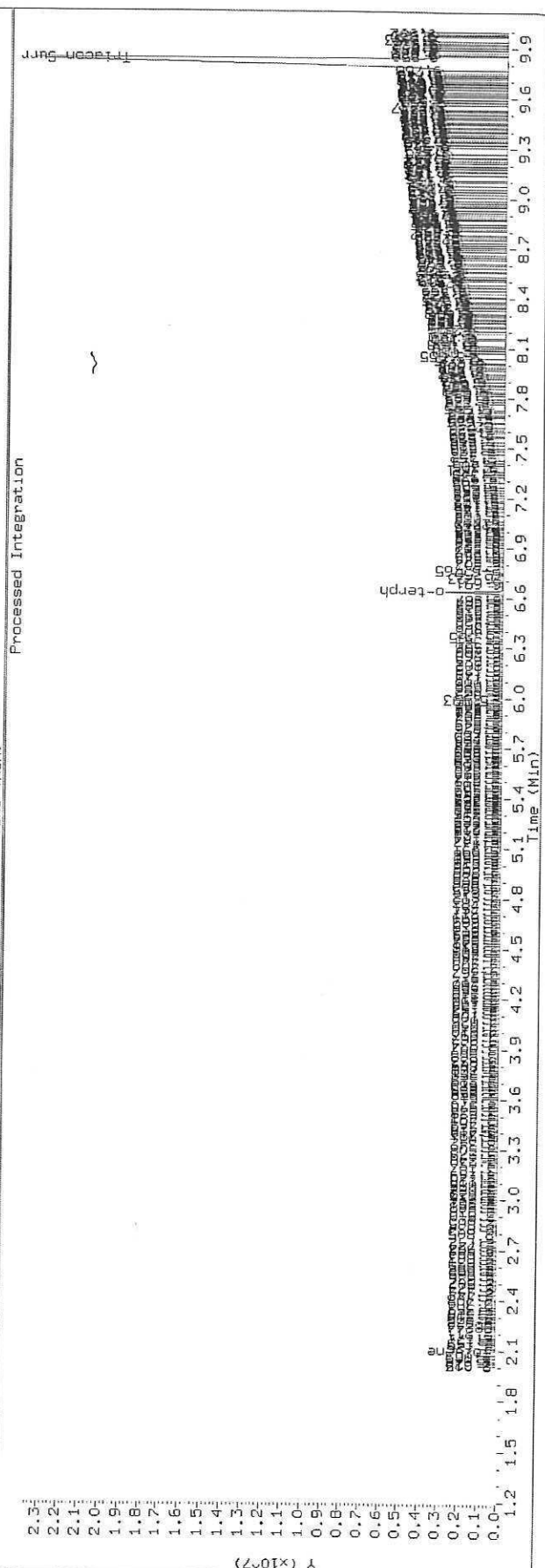
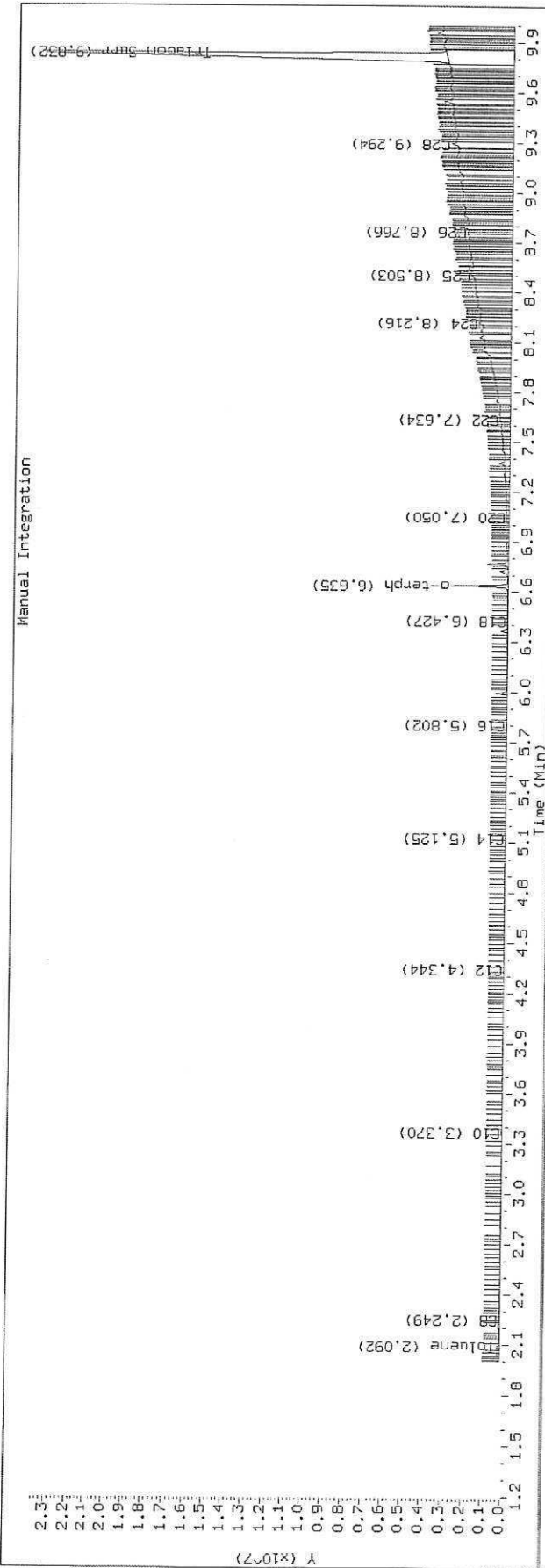
M Indicates the peak was manually integrated

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

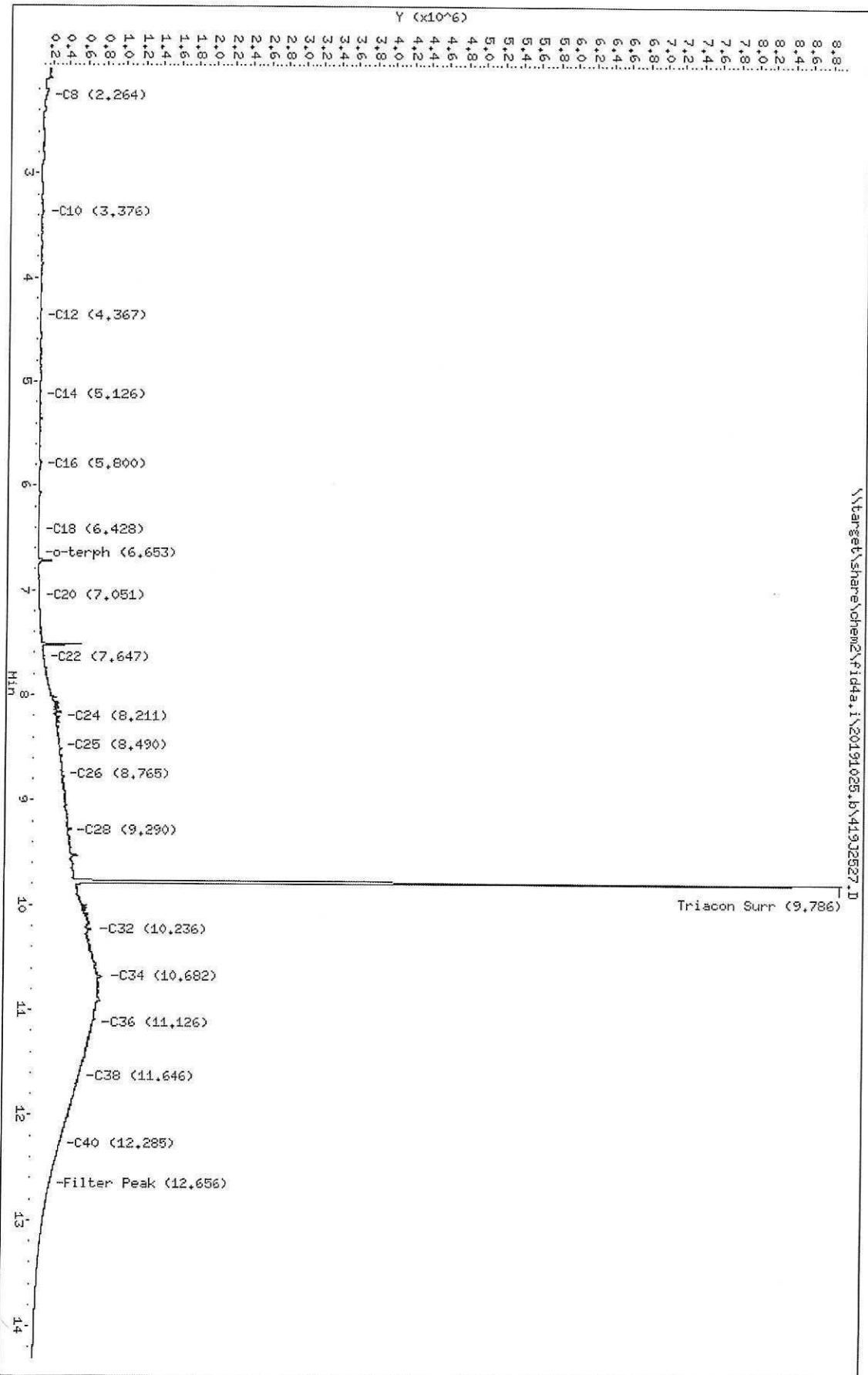
HP6890 GC Data, FID1A.CH





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)

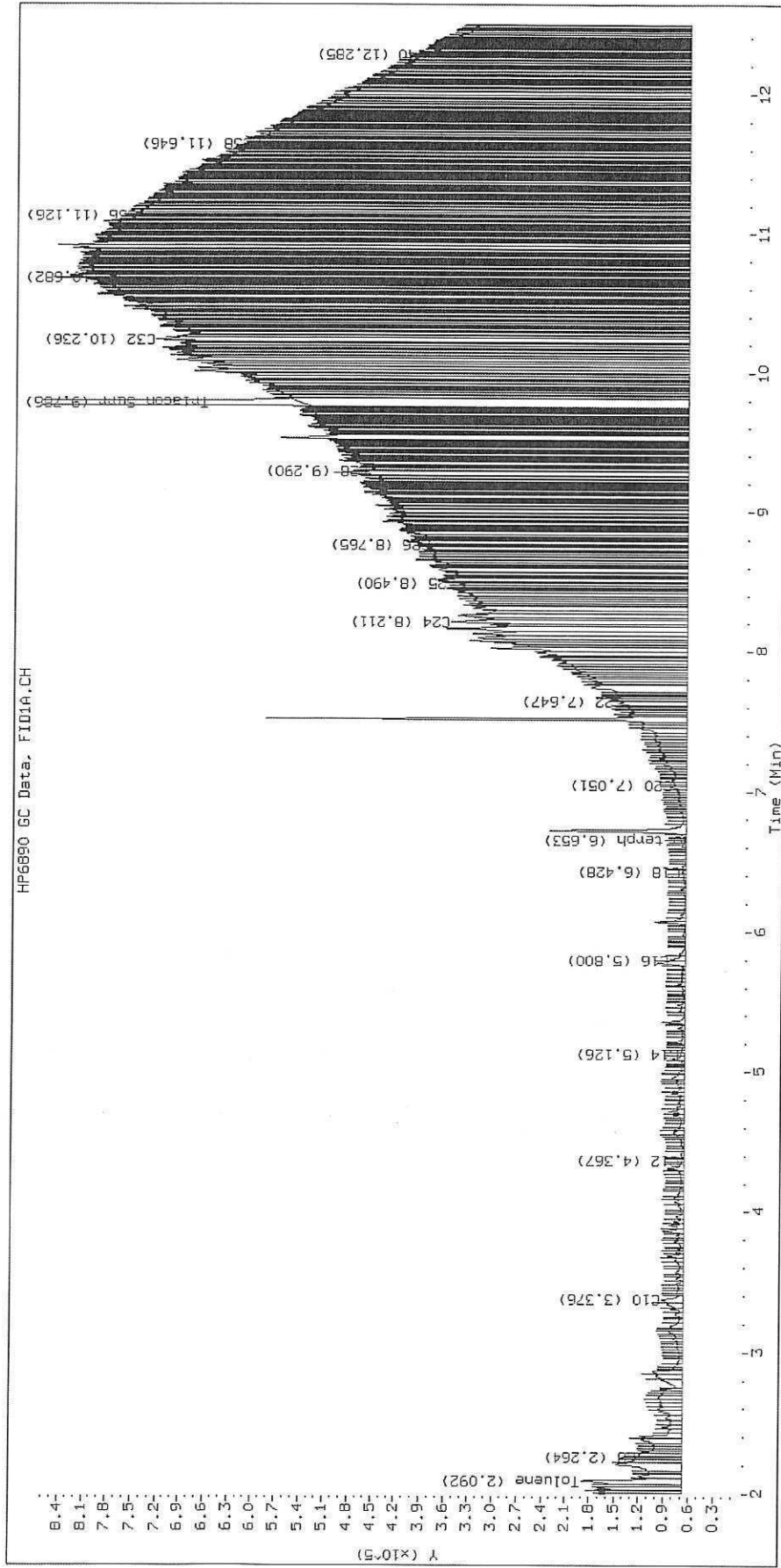
Surrogate	Area	Amount
o-Terphenyl	2570	0.0
Triacotane	7592281	42.7 M

M Indicates the peak was manually integrated

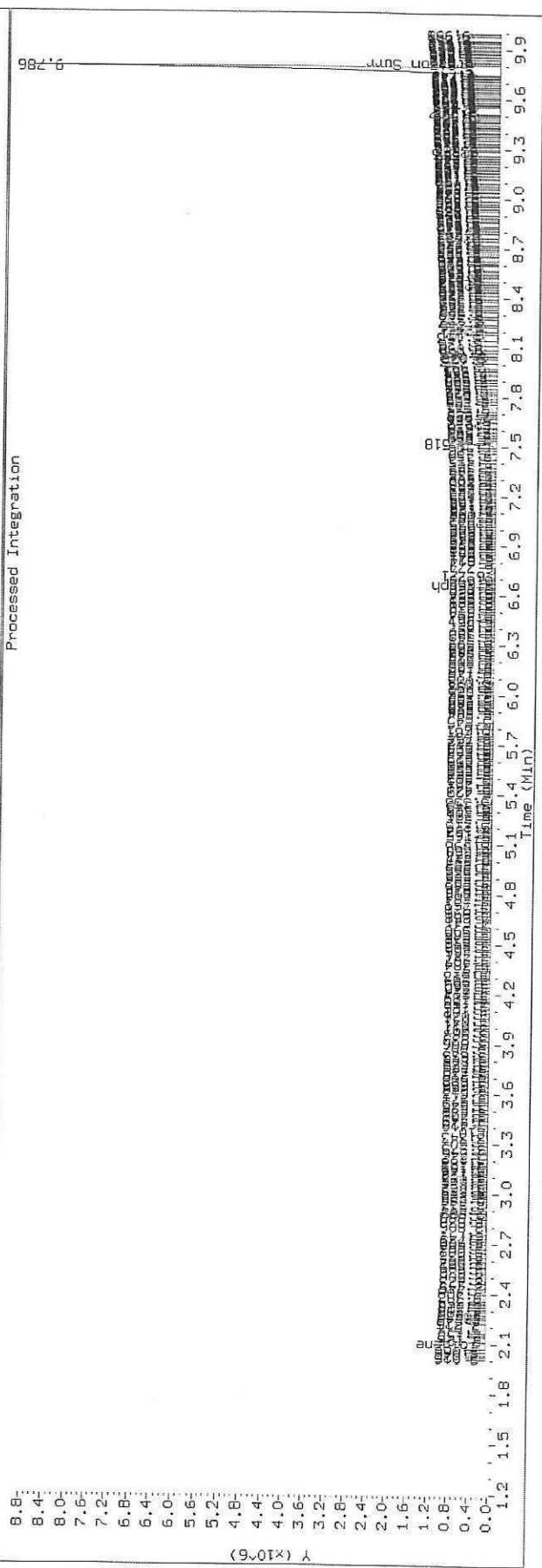
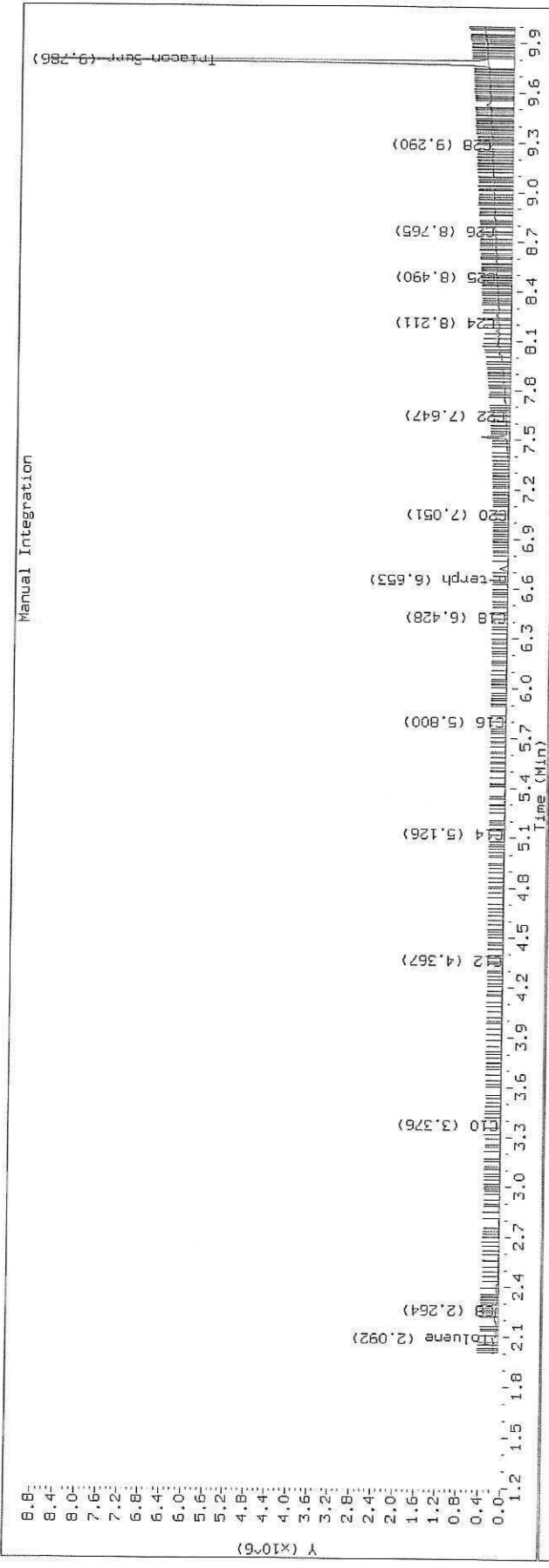
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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

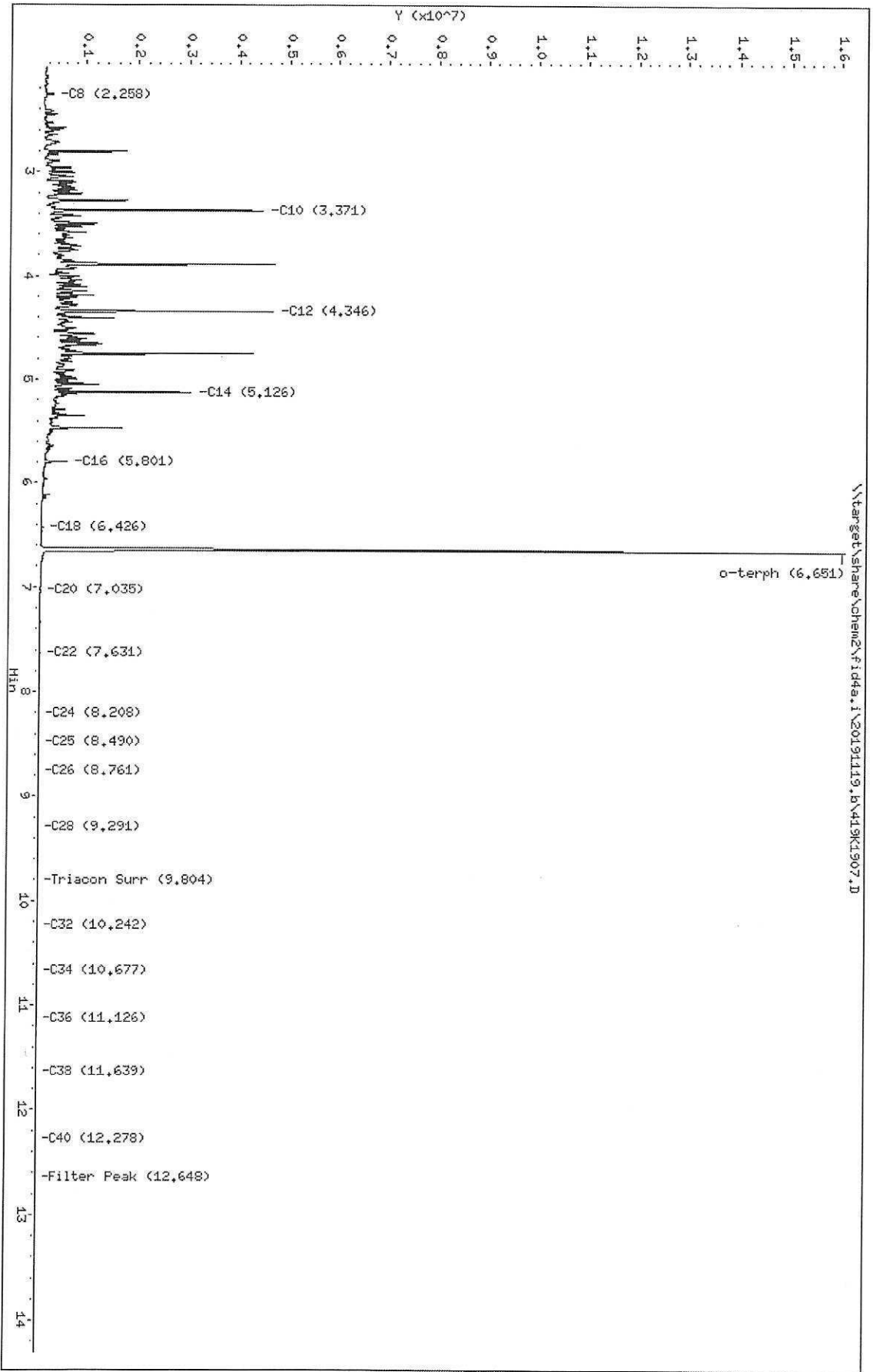
M Indicates the peak was manually integrated

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

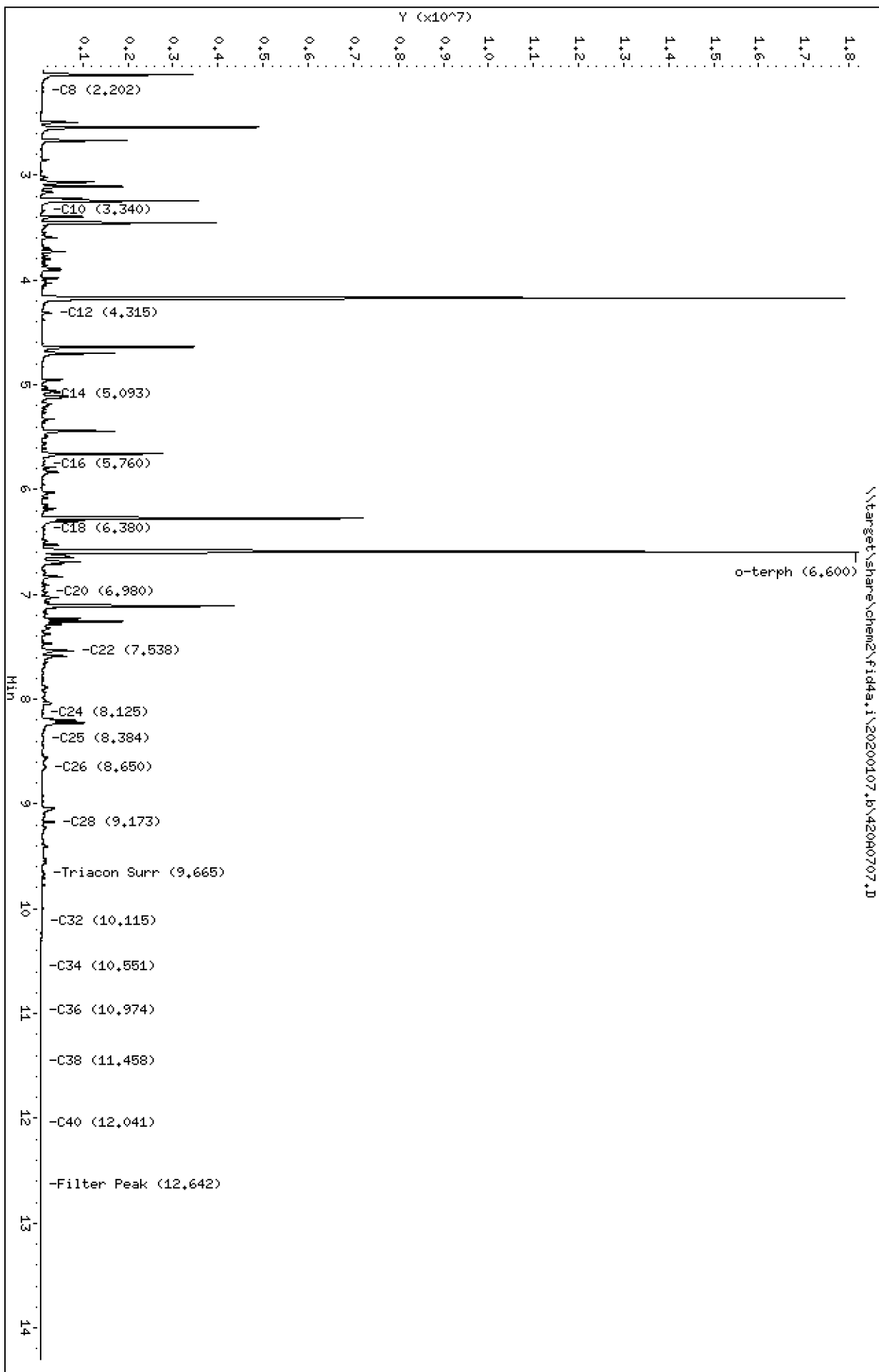
Column phase: RTX-1

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

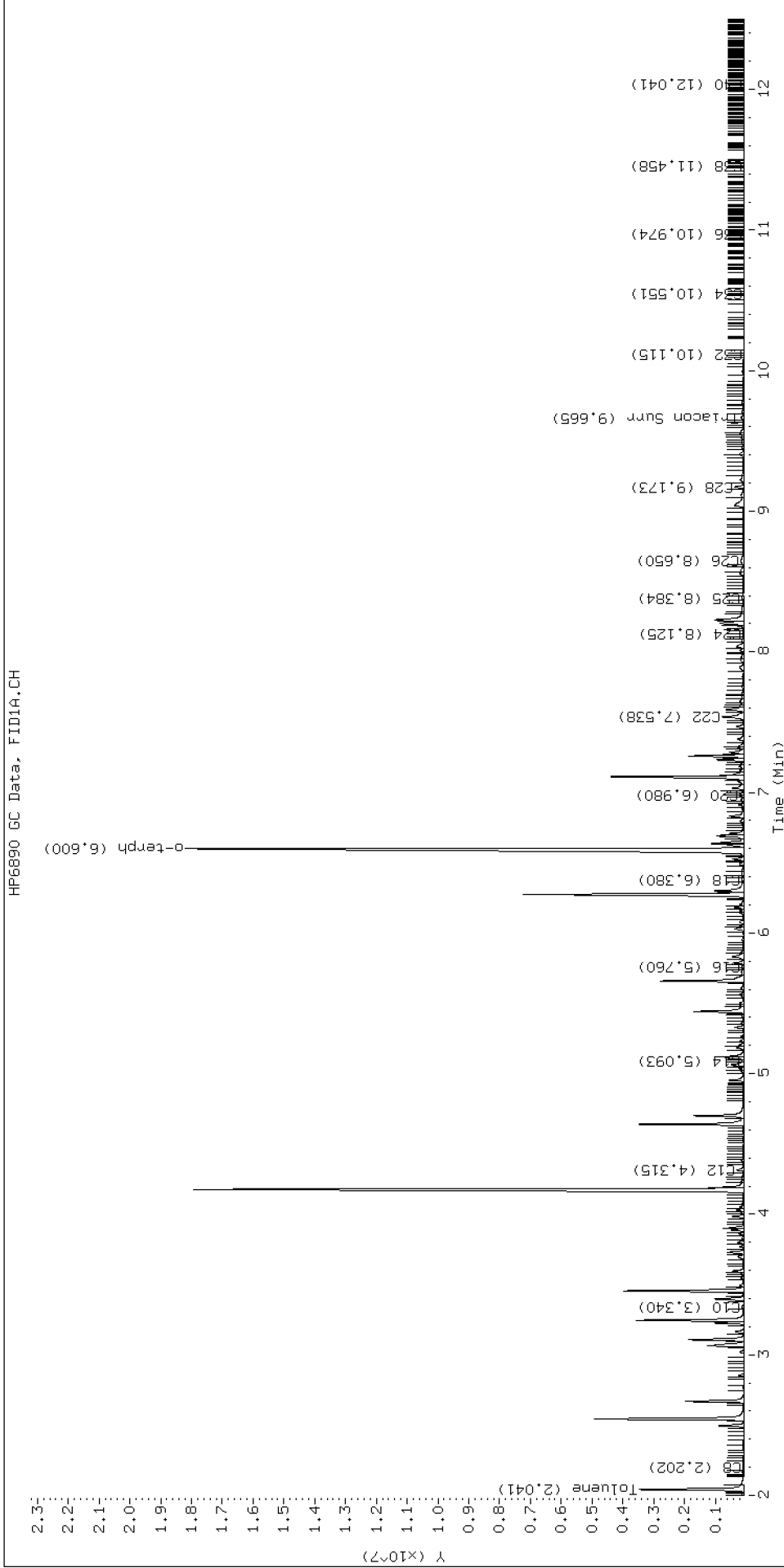
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.202	-0.016	48618	163148	WATPHD	(C12-C24)	39749068	249.5
C10	3.340	-0.003	90097	100393	WATPHM	(C24-C38)	8921905	67.3
C12	4.315	-0.003	247325	289347	AK102	(C10-C25)	67305313	344.3
C14	5.093	-0.003	88277	57691	AK103	(C25-C36)	6259973	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





ANALYSIS SEQUENCE

SIC0179

Instrument: FID4
Calibration ID: DA00022

Printed: 3/16/2020 10:35:50AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIC0179-IBL1	QC		1		H010802			
SIC0179-IBL2	QC		2		I000651			
SIC0179-CAL1	QC		3		H009812			
SIC0179-CAL2	QC		4		H009811			
SIC0179-CAL3	QC		5		H009810			
SIC0179-CAL4	QC		6		H009809			
SIC0179-CAL5	QC		7		H009808			
SIC0179-CAL6	QC		8		H009807			
SIC0179-SCV1	QC		9		H009809			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200313b.b

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1	13-MAR-2020	13:19	420C1310.D	1	RINSE	
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

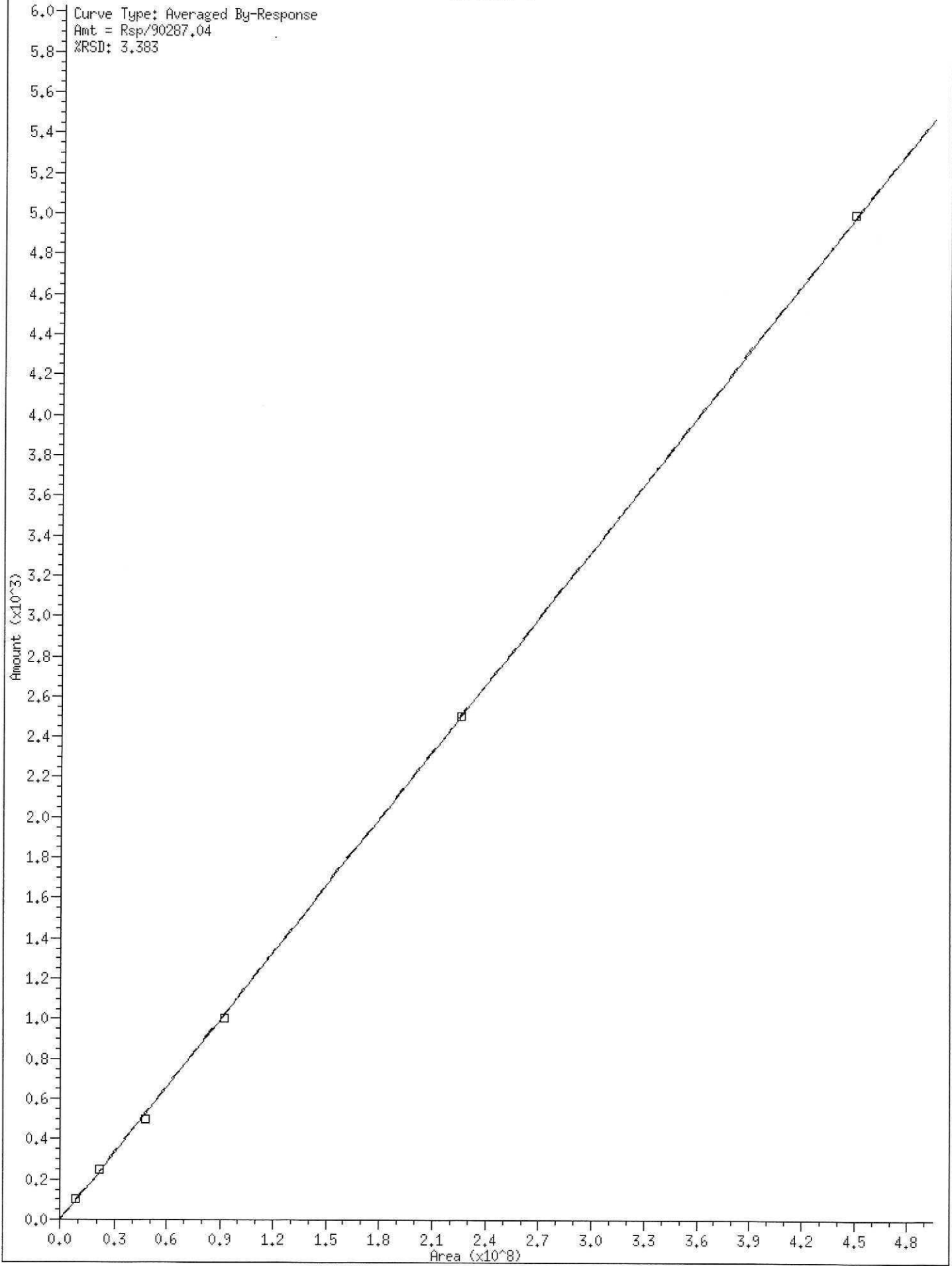
ARI Job No.: RINS Method: b\FID4TPH.m Instrument: fid4a.i Date: 13-MAR-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1319	420C1310.D	RINSE		1	NO MANUAL INTEGRATION
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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420C1312.D	Data Locked	christopher, 16-Mar-2020 10:37
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420C1316.D	Data Locked	christopher, 16-Mar-2020 10:37
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420C1320.D	Data Locked	christopher, 16-Mar-2020 10:37

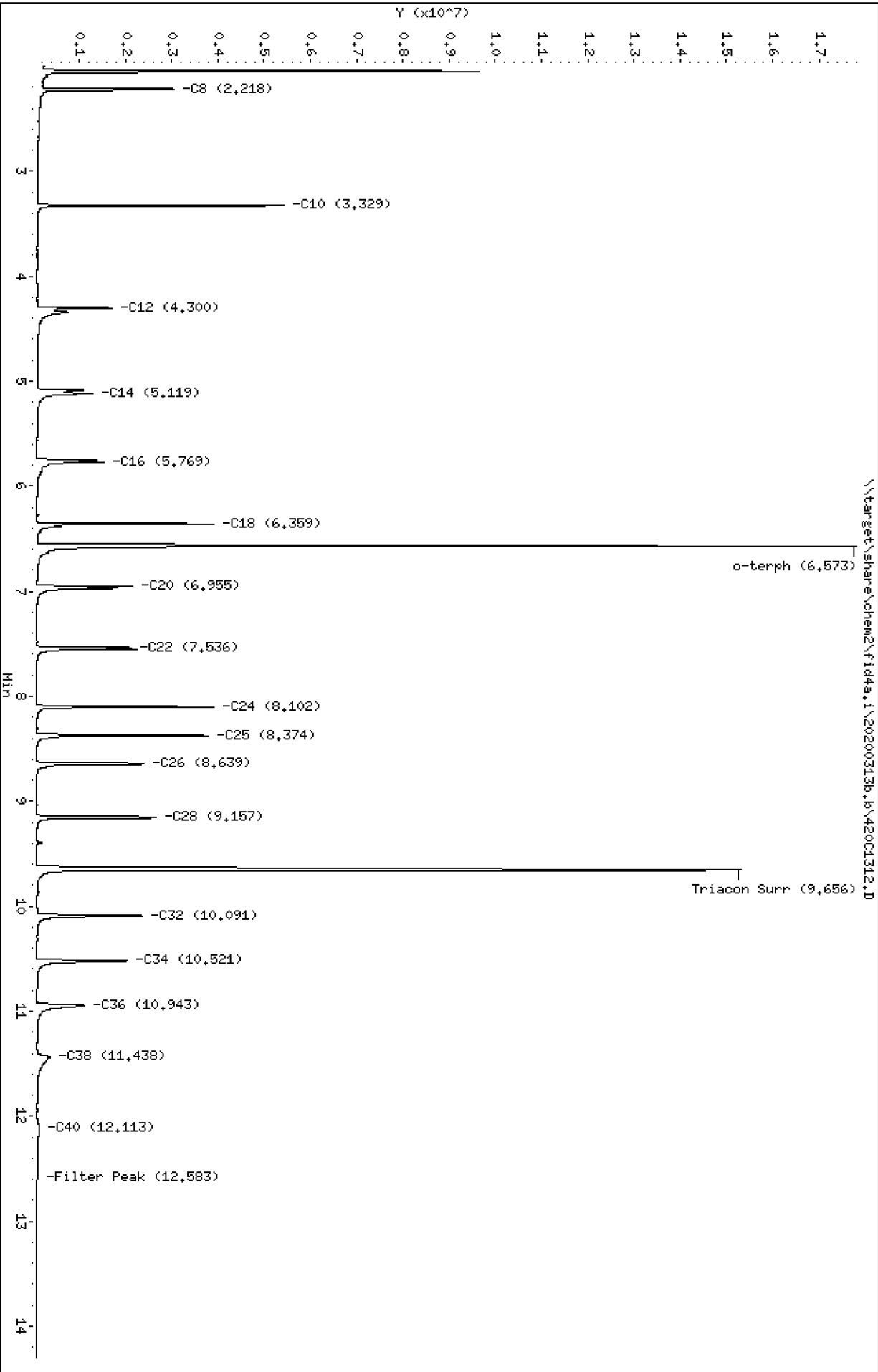


Data File: \\target\share\chem2\fid4a,1\20200313b,bv420C1312.D
Date: 13-MAR-2020 13:58
Client ID:
Sample Info: SEQ-IBL1

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

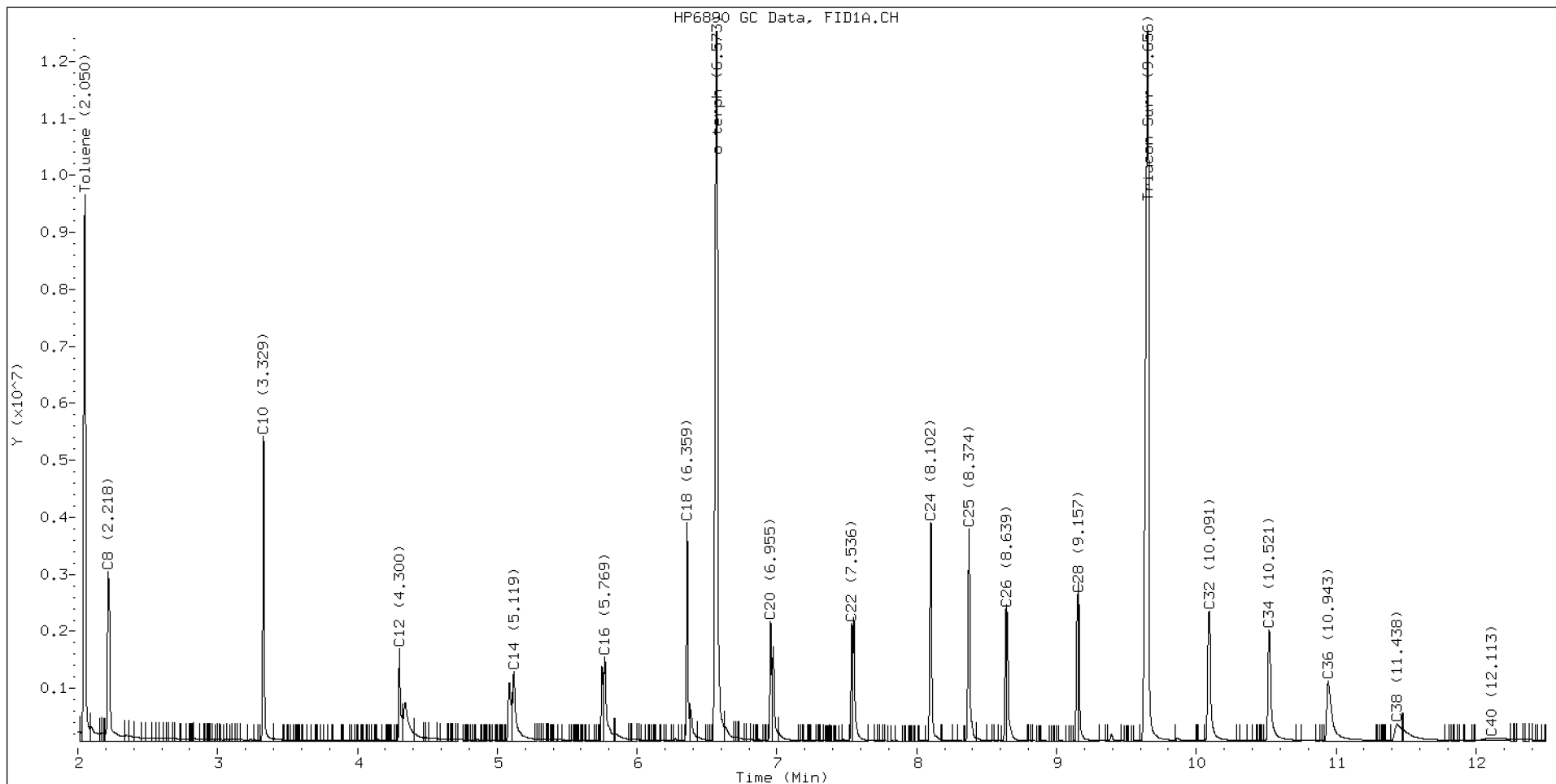
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.218	0.000	2976230	4258439	WATPHD	(C12-C24)	25653686	161.0
C10	3.329	0.000	5344126	3820334	WATPHM	(C24-C38)	24648964	185.8
C12	4.300	0.000	1627839	1465465	AK102	(C10-C25)	33671106	172.2
C14	5.119	0.000	1211179	2316863	AK103	(C25-C36)	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

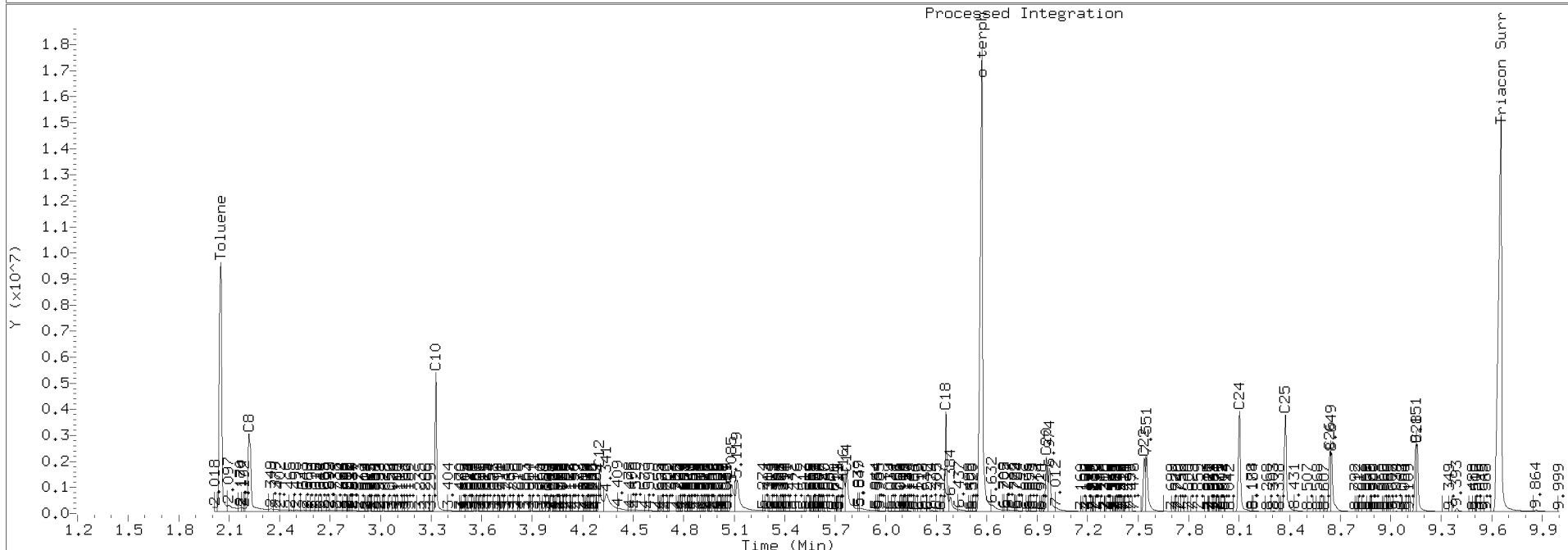
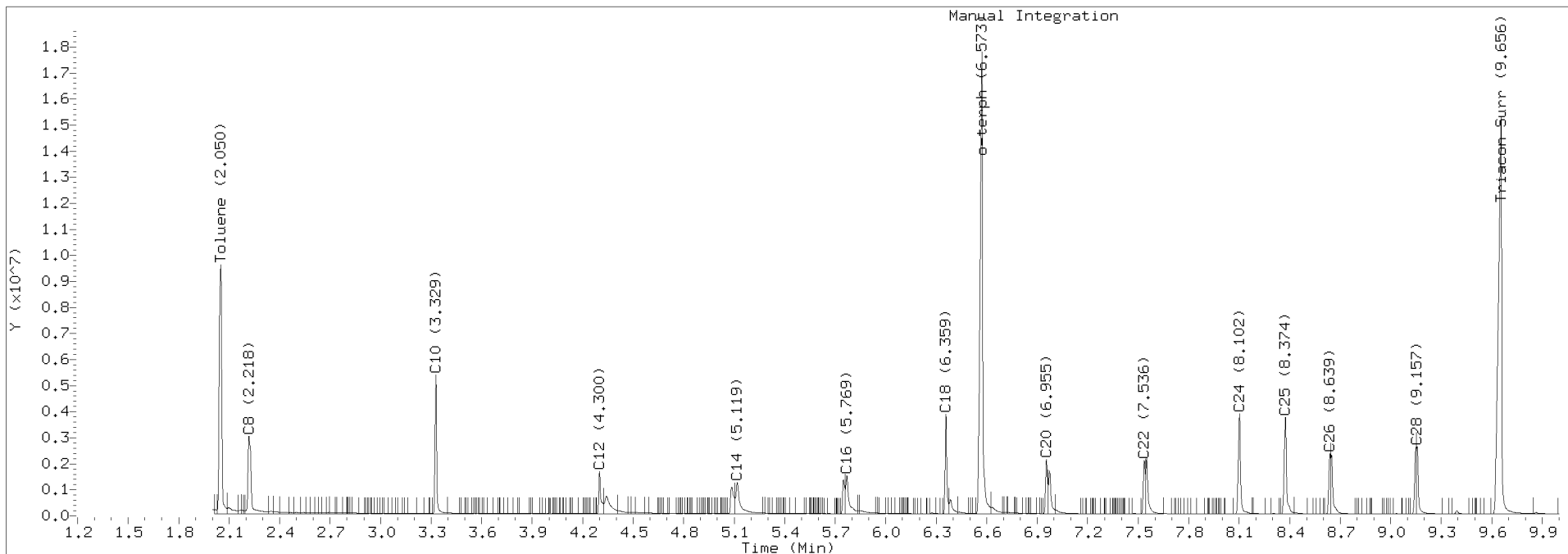
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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,1\20200313b,bv420C1313.D
Date: 13-MAR-2020 14:17

Client ID:

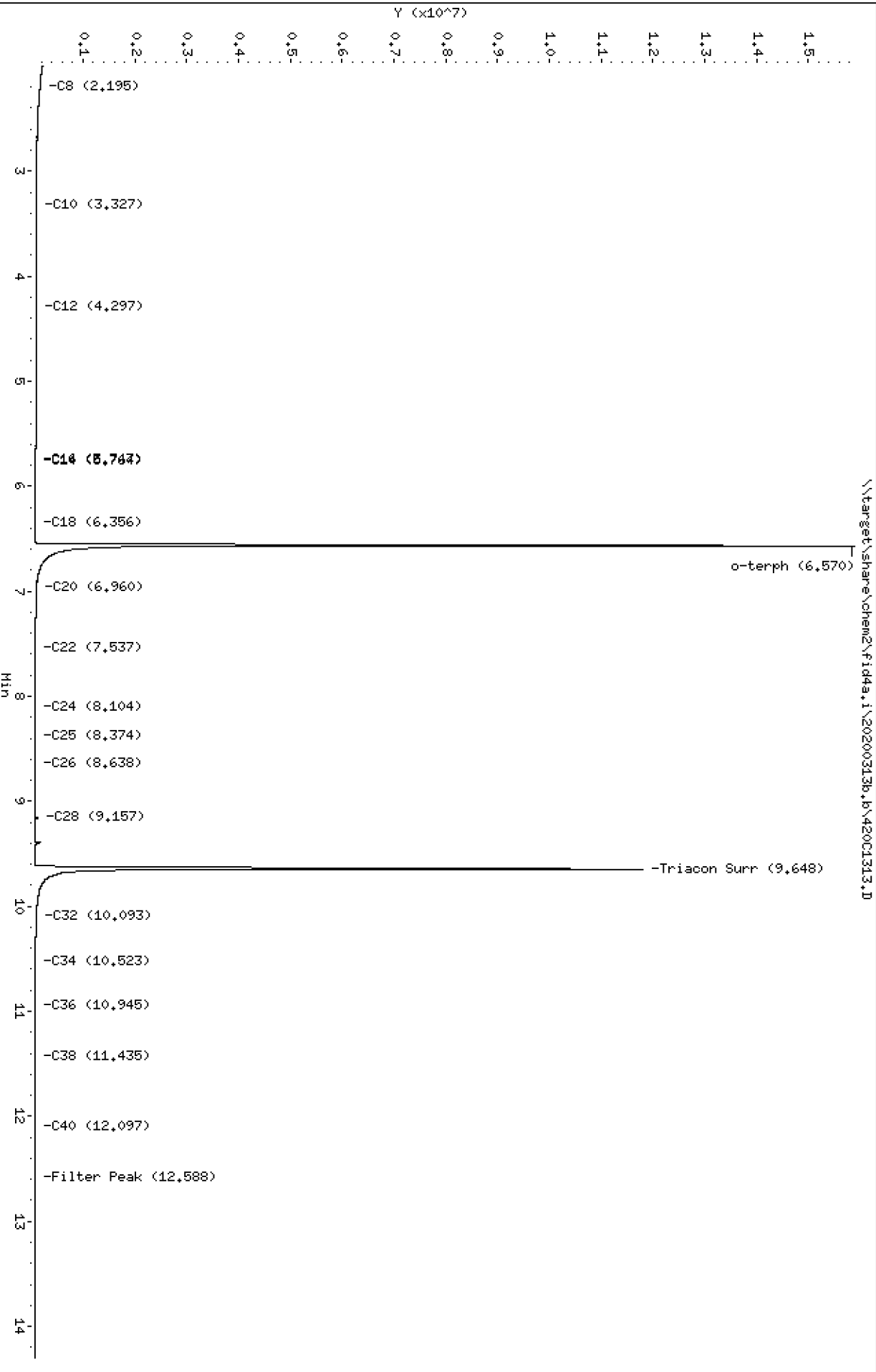
Sample Info: SEQ-IBL2

Column phase: RTX-1

Instrument: fid4a,1

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

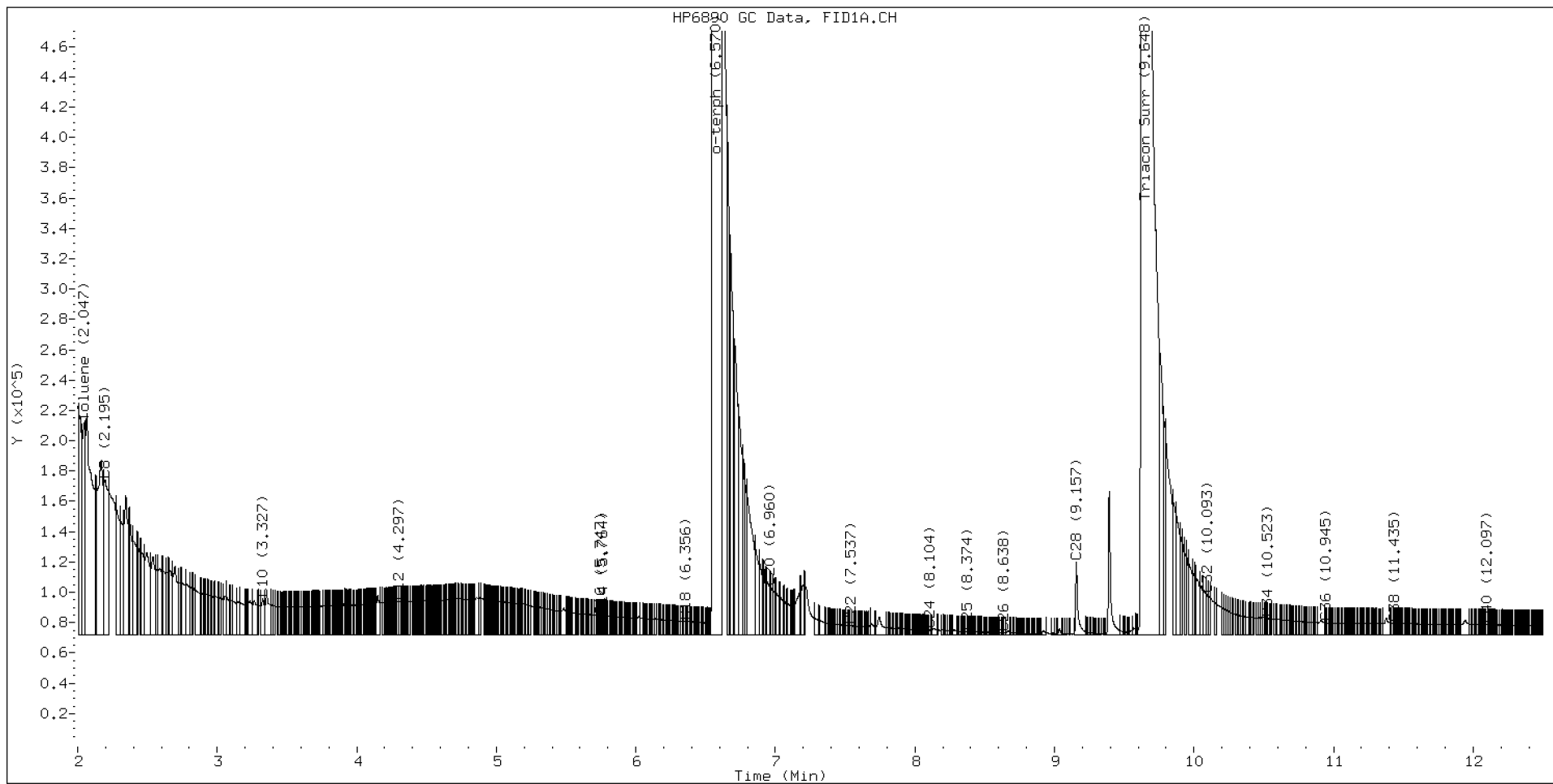
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.195	-0.023	101964	220885	WATPHD	(C12-C24)	4394210	27.6
C10	3.327	-0.002	23471	39087	WATPHM	(C24-C38)	1967673	14.8
C12	4.297	-0.003	21590	18255	AK102	(C10-C25)	5527366	28.3
C14	5.764	0.646	12422	5561	AK103	(C25-C36)	1745508	17.5
C16	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





ANALYSIS SEQUENCE

SID0108

Instrument: FID4
Calibration ID: DA00022

Printed: 4/20/2020 7:51:03AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SID0108-IBL1	QC		1		H010802			
SID0108-IBL2	QC		2		I000651			
SID0108-CAL1	QC		3		I003251			
SID0108-CAL2	QC		4		I003252			
SID0108-CAL3	QC		5		I003253			
SID0108-CAL4	QC		6		I003254			
SID0108-CAL5	QC		7		I003255			
SID0108-CAL6	QC		8		I003037			
SID0108-SCV1	QC		9		I003274			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200408.b

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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

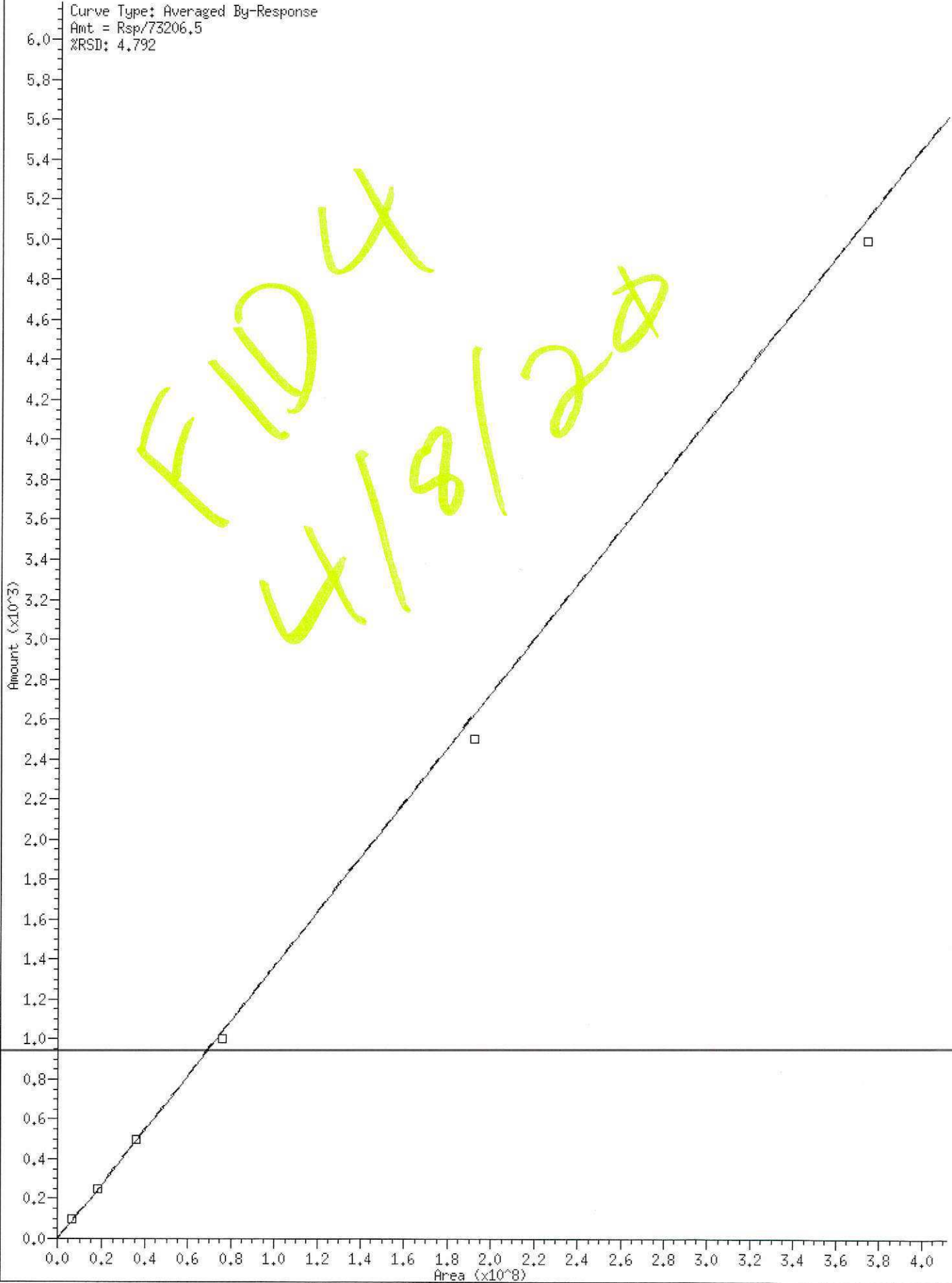
Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
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0837	420D0802.D	RINSE		1	NO MANUAL INTEGRATION
0856	420D0803.D	RINSE		1	NO MANUAL INTEGRATION
0916	420D0804.D	RINSE		1	NO MANUAL INTEGRATION
0935	420D0805.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
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

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420D0805.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0806.D	Data Locked	christopher, 20-Apr-2020 07:45
420D0807.D	Data Locked	christopher, 20-Apr-2020 07:45
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420D0812.D	Data Locked	christopher, 20-Apr-2020 07:45
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Curve Type: Averaged By-Response
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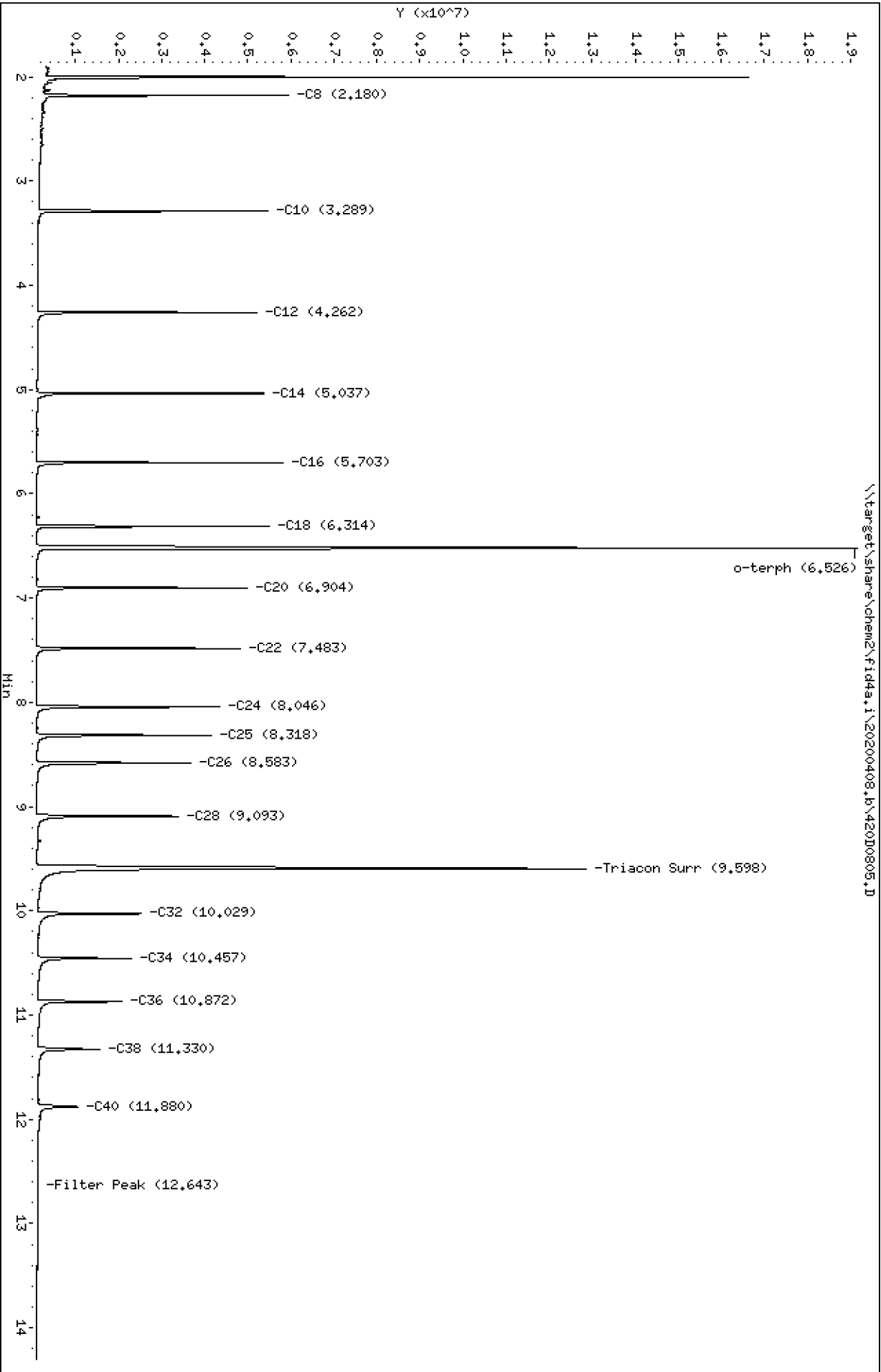


Data File: \\target\share\chem2\fid4a,1\20200408_b\42010805.D
Date: 08-APR-2020 09:35
Client ID:
Sample Info: SEQ-IBL1

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 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

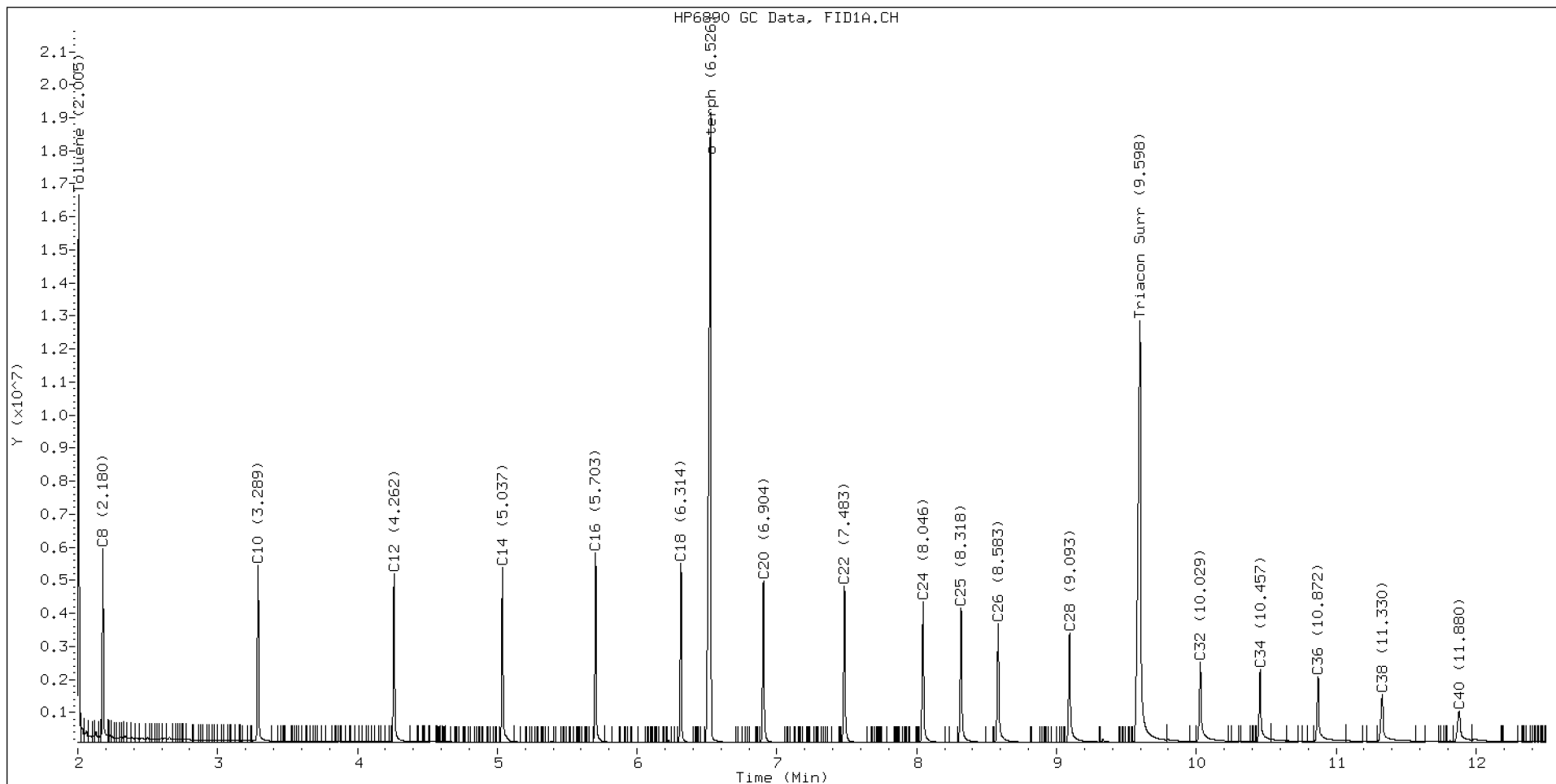
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.180	0.000	5854578	3880900	WATPHD	(C12-C24)	23844320	149.6
C10	3.289	0.000	5366559	4126403	WATPHM	(C24-C38)	25592918	193.0
C12	4.262	0.000	5124561	3862358	AK102	(C10-C25)	33609761	171.9
C14	5.037	0.000	5288886	3763422	AK103	(C25-C36)	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

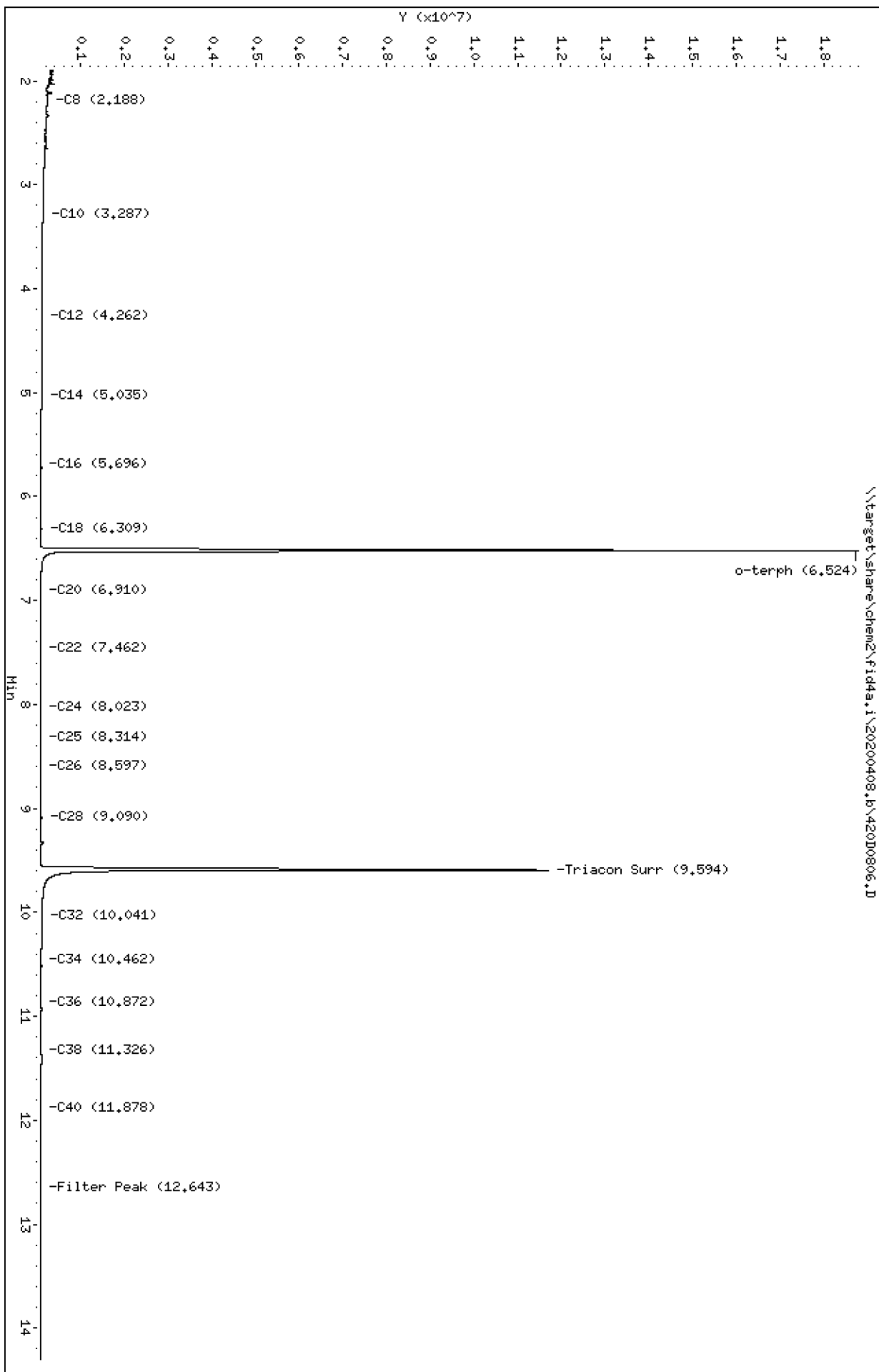
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



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

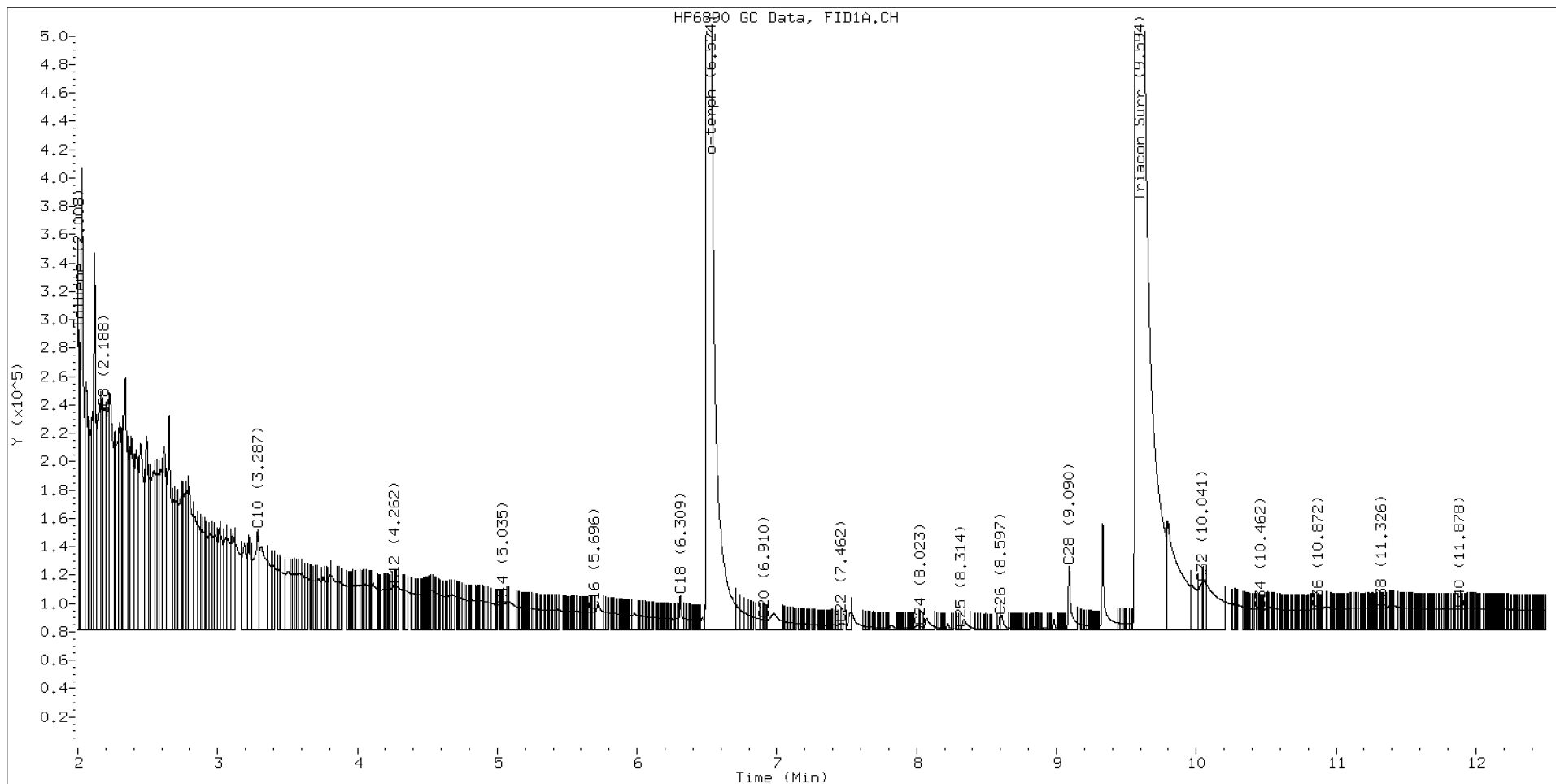
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.188	0.008	156546	216359	WATPHD	(C12-C24)	2059708	12.9
C10	3.287	-0.002	70586	177016	WATPHM	(C24-C38)	2023092	15.3
C12	4.262	-0.001	31694	27721	AK102	(C10-C25)	4136621	21.2
C14	5.035	-0.002	17658	7042	AK103	(C25-C36)	1615485	22.1
C16	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

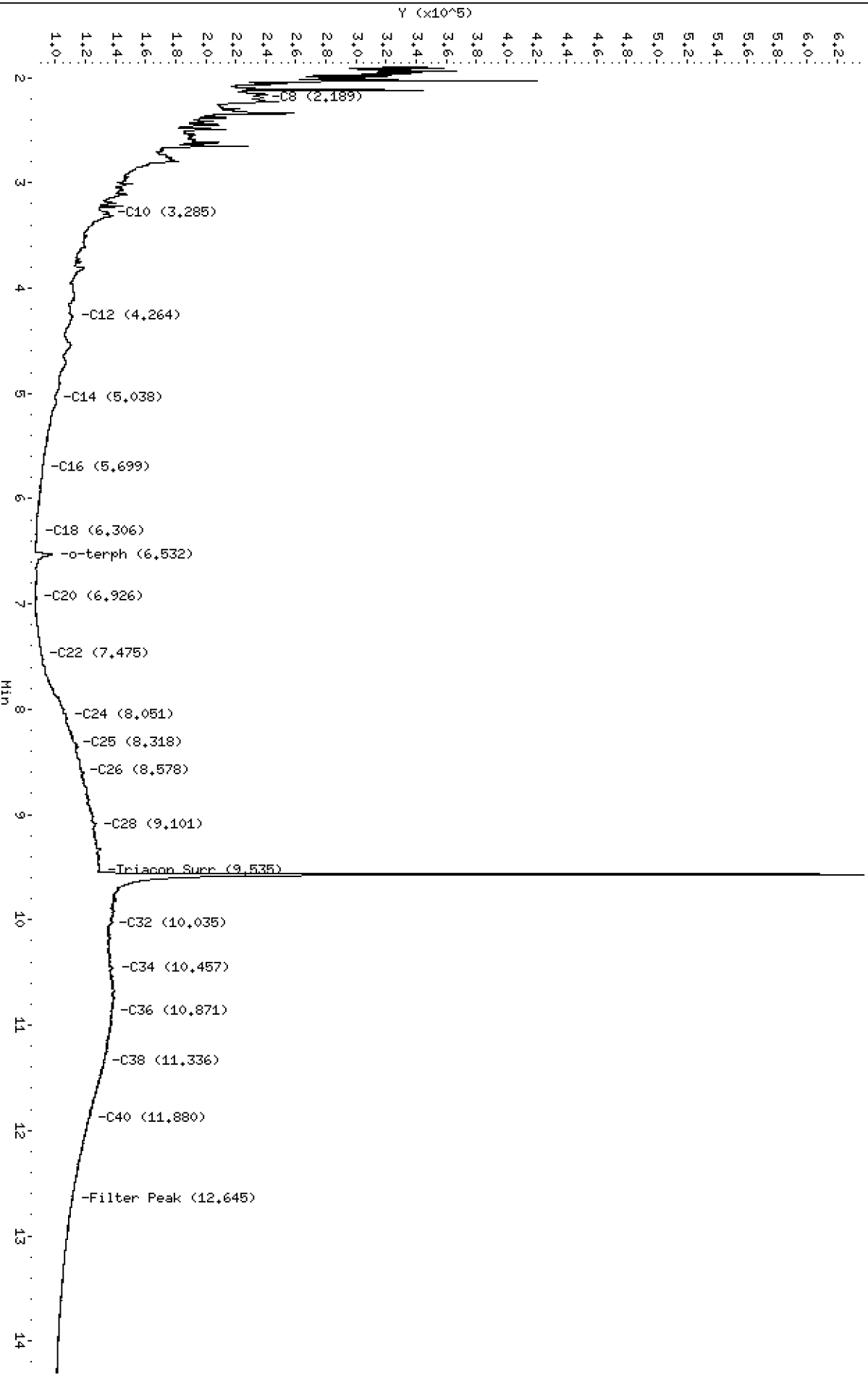
Column phase: RTX-1

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

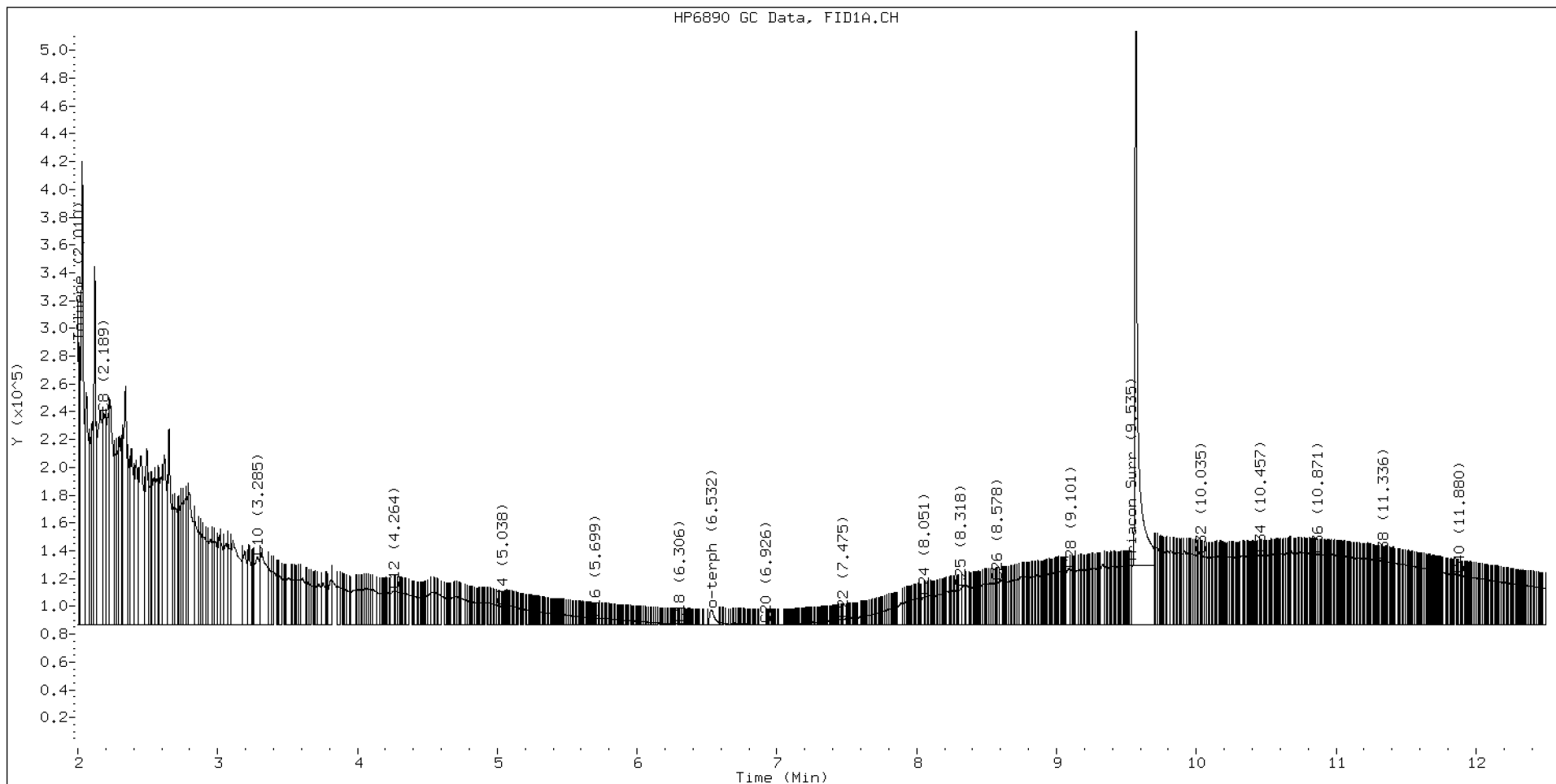
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.189	0.009	152083	238009	WATPHD	(C12-C24)	1535455	9.6
C10	3.285	-0.004	49113	104559	WATPHM	(C24-C38)	8187148	61.7
C12	4.264	0.002	24631	8600	AK102	(C10-C25)	3445901	17.6
C14	5.038	0.001	13117	3929	AK103	(C25-C36)	6705828	91.6
C16	5.699	-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

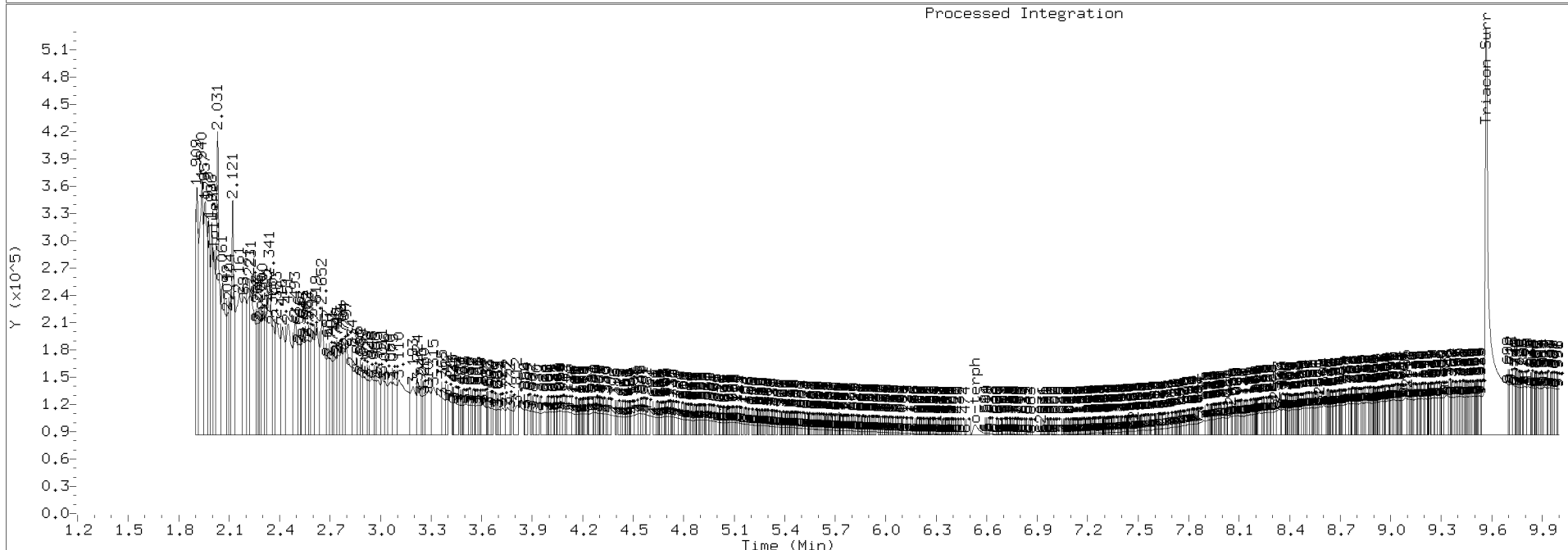
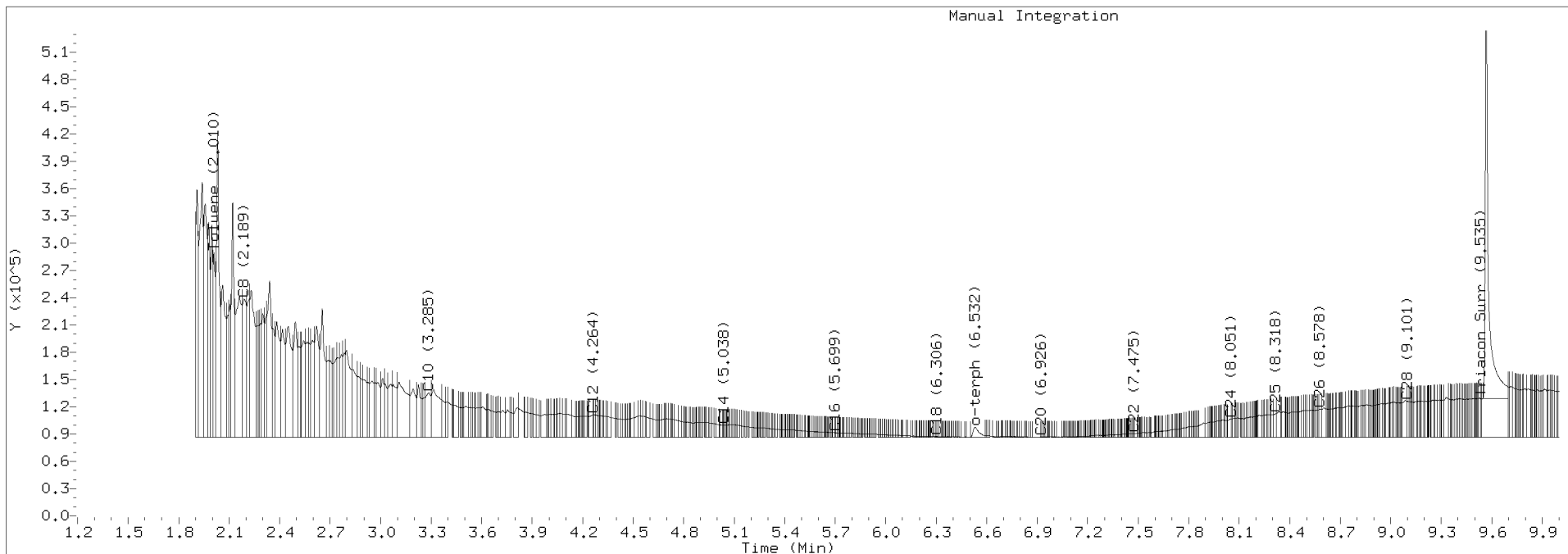
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

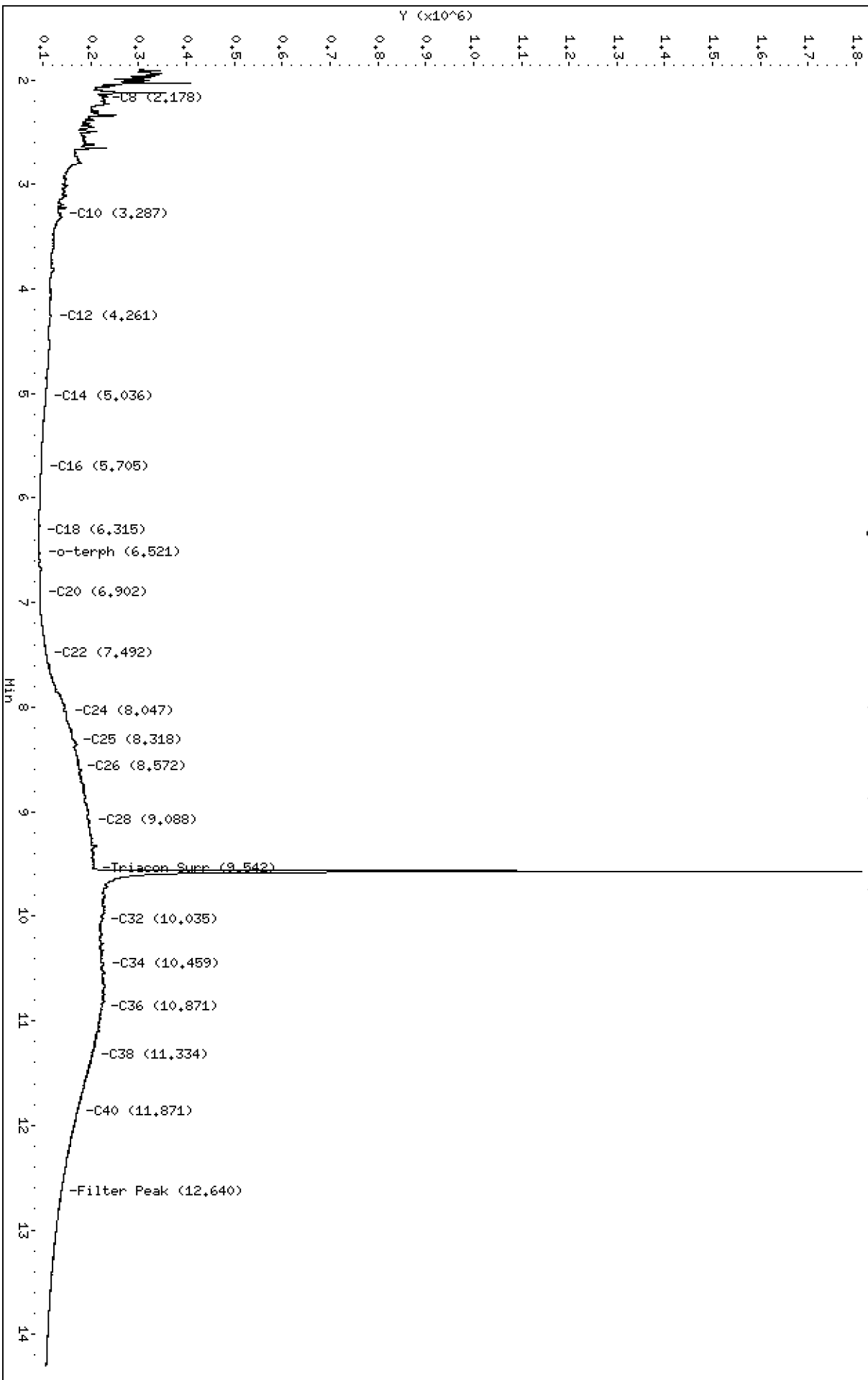
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200408_b\42010808.D



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

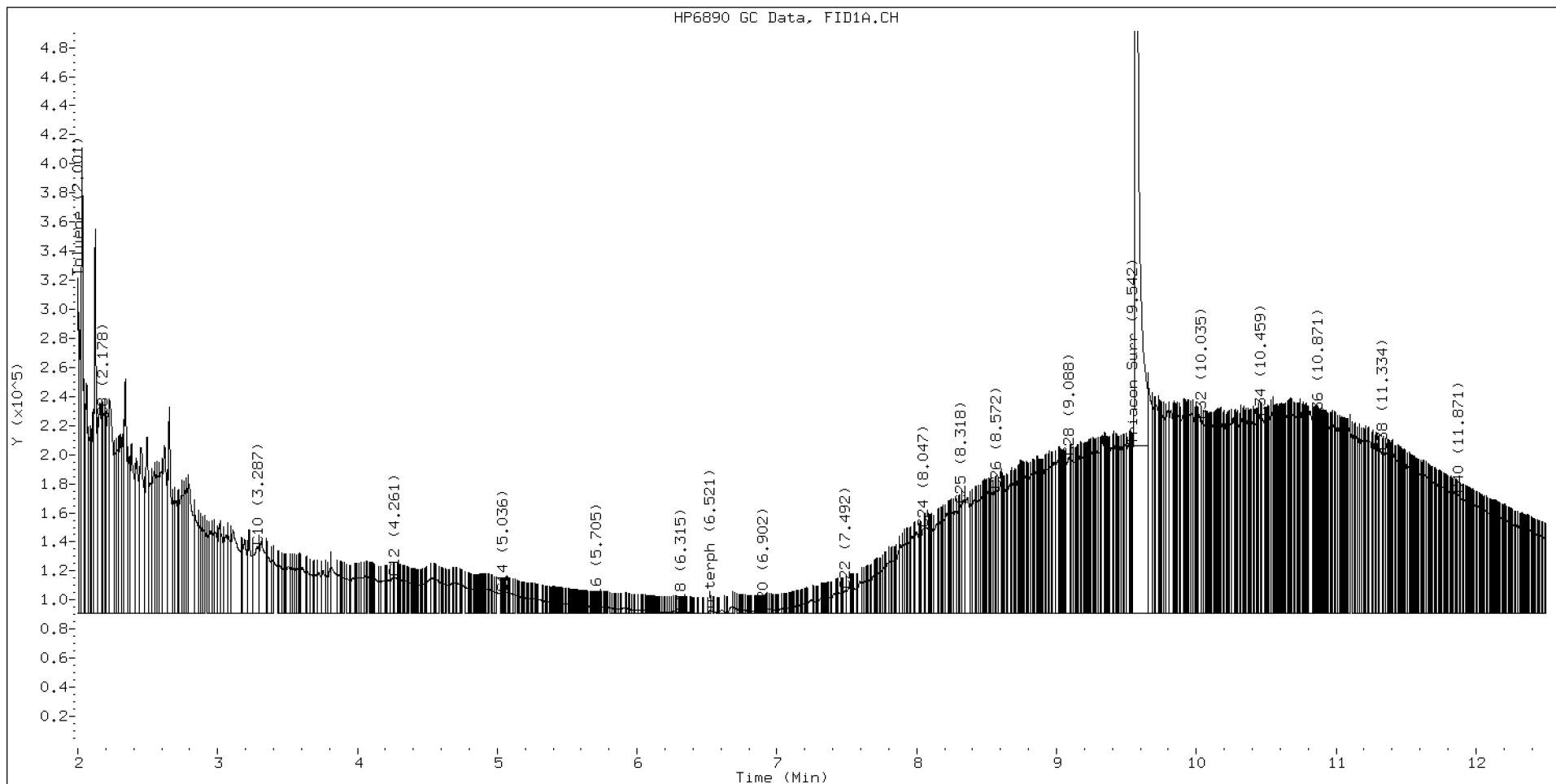
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.178	-0.002	134647	73580	WATPHD	(C12-C24)	2623184	16.5
C10	3.287	-0.002	46105	122146	WATPHM	(C24-C38)	21976708	165.7
C12	4.261	-0.002	24803	7411	AK102	(C10-C25)	4928461	25.2
C14	5.036	-0.002	13595	4064	AK103	(C25-C36)	18150509	247.9
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

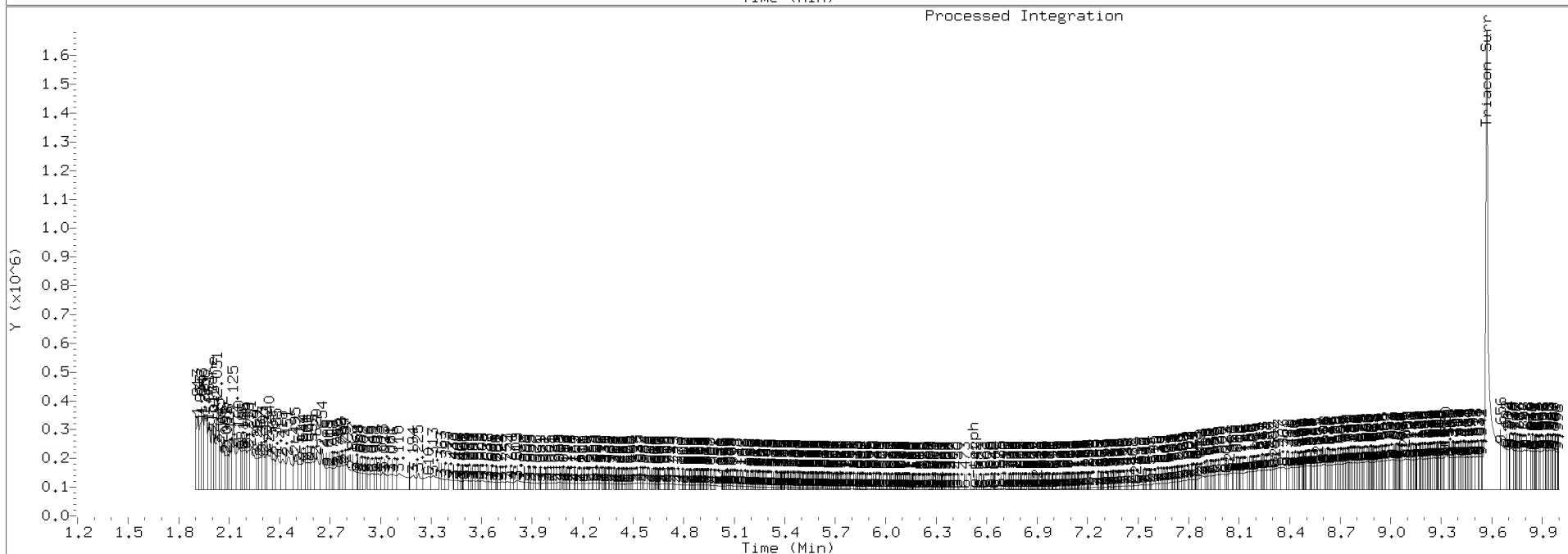
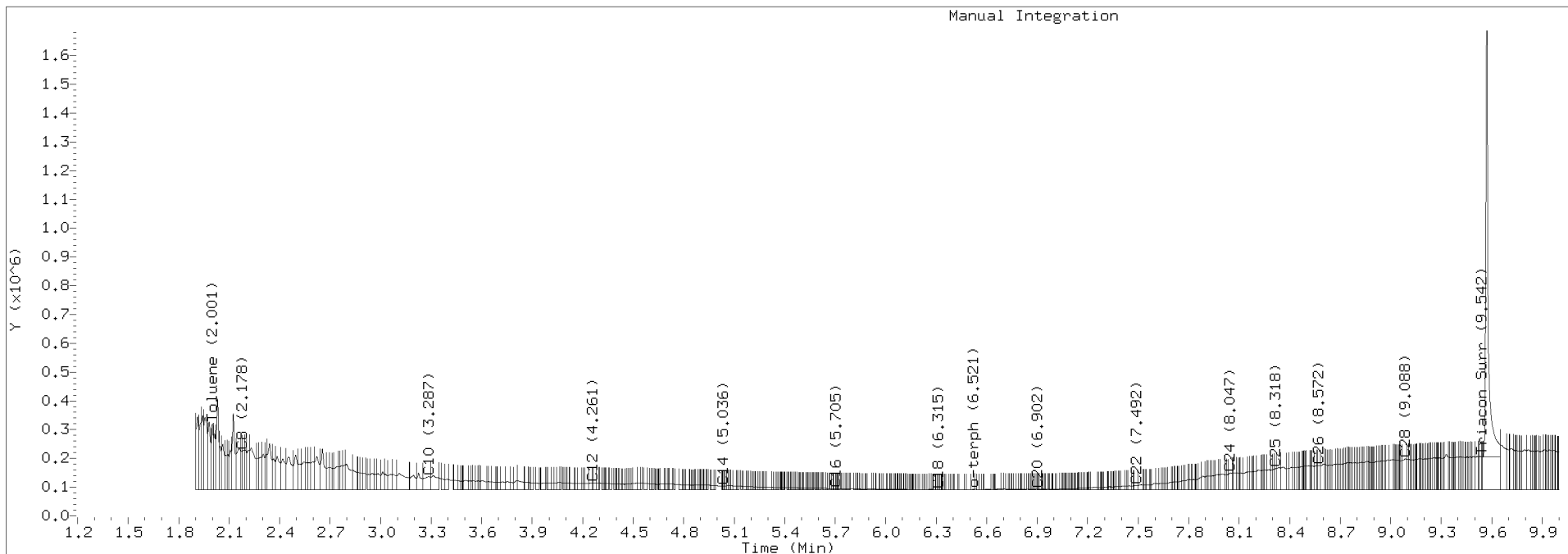
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

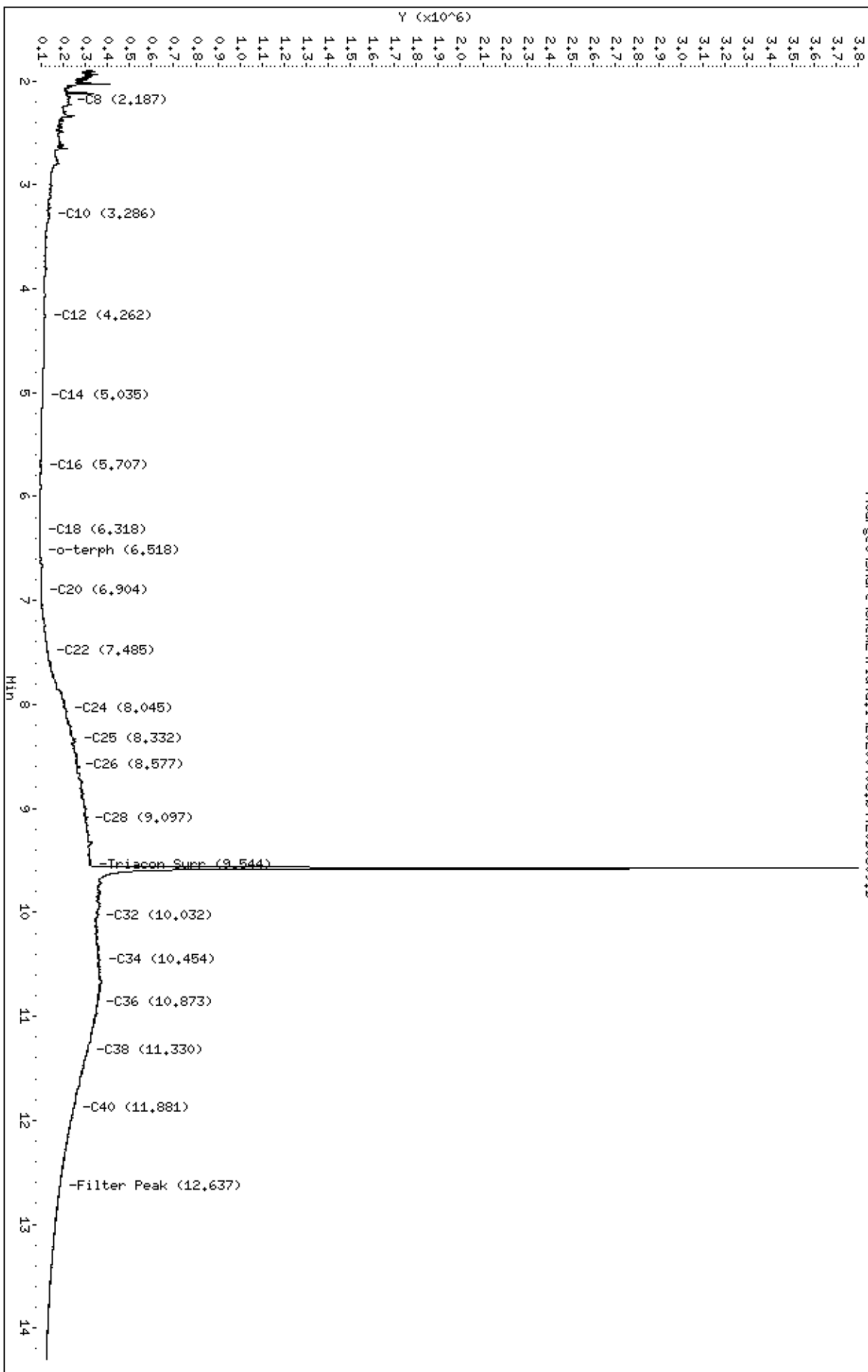
Column phase: RTX-1

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

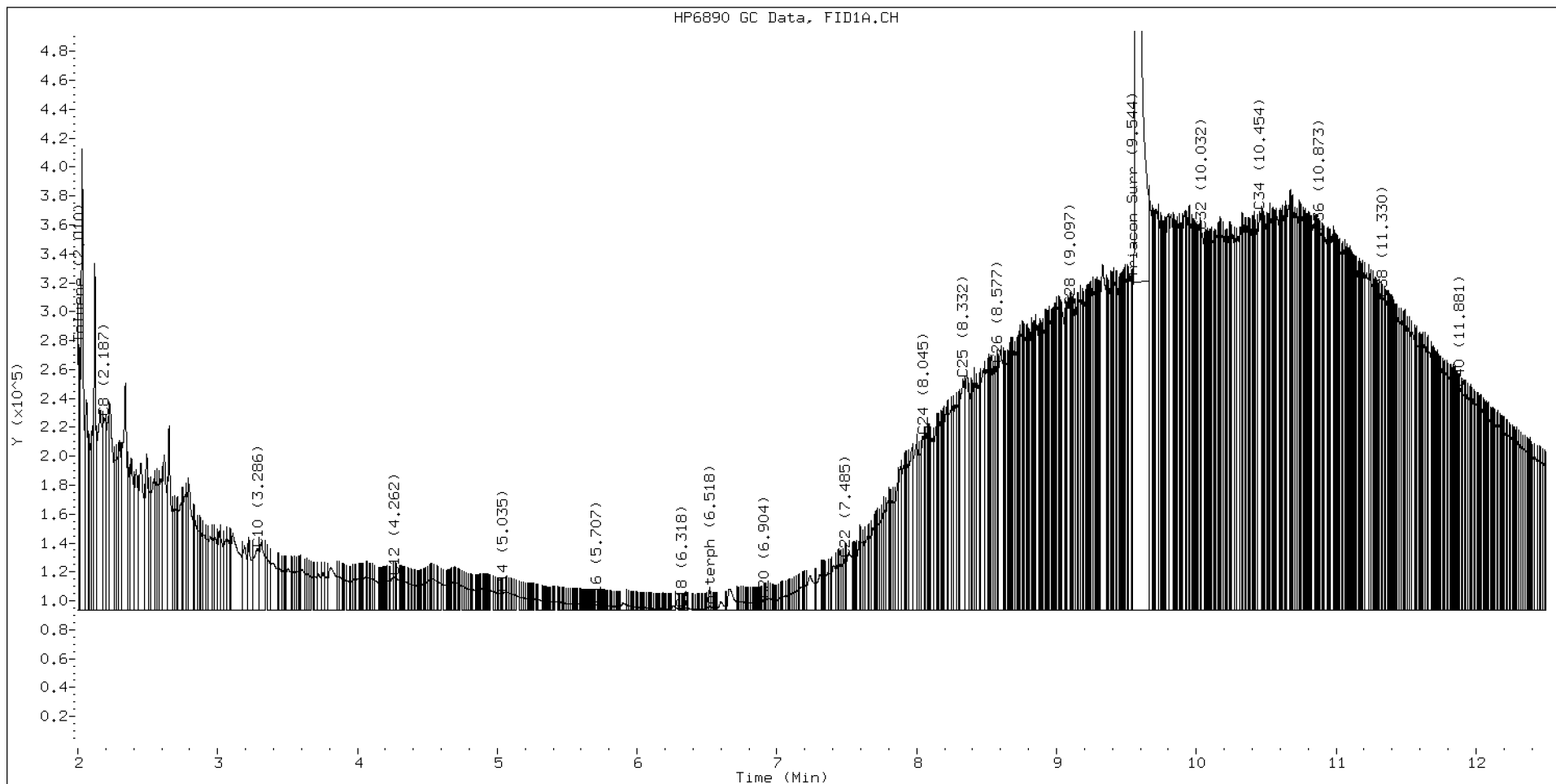
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.187	0.008	132882	207304	WATPHD	(C12-C24)	4342009	27.3
C10	3.286	-0.003	42399	113652	WATPHM	(C24-C38)	43844245	330.6
C12	4.262	-0.001	22449	12283	AK102	(C10-C25)	7087402	36.3
C14	5.035	-0.002	11190	3340	AK103	(C25-C36)	36073165	492.8
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

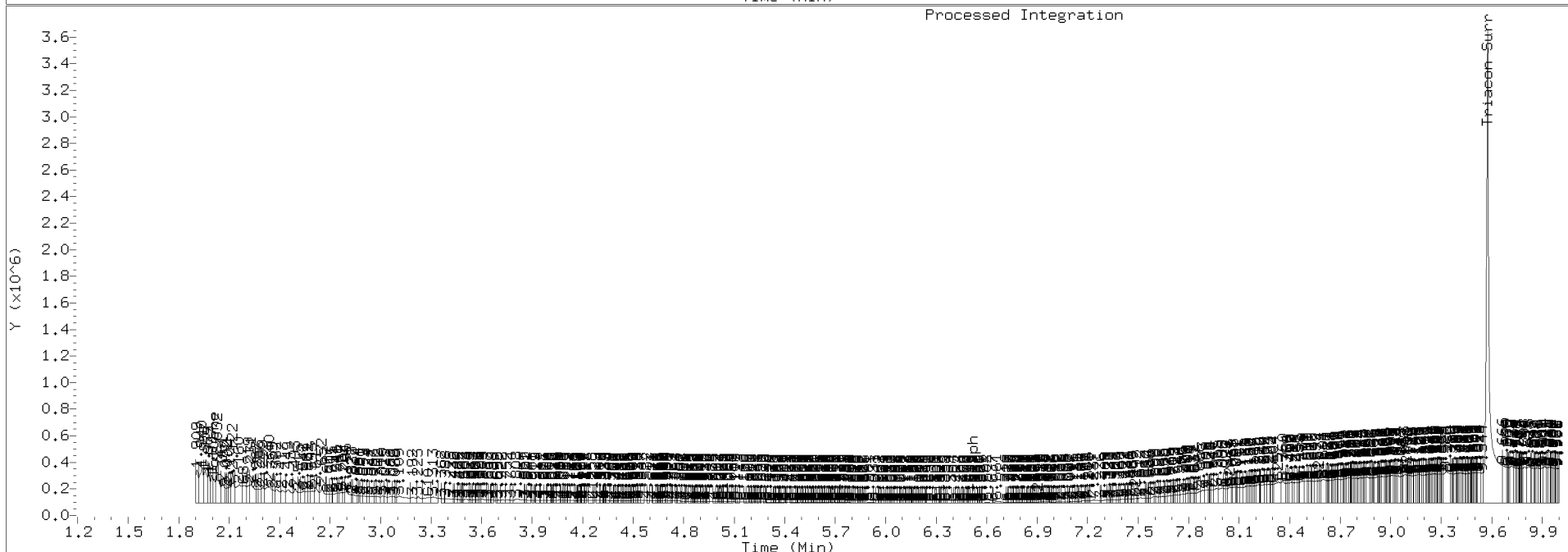
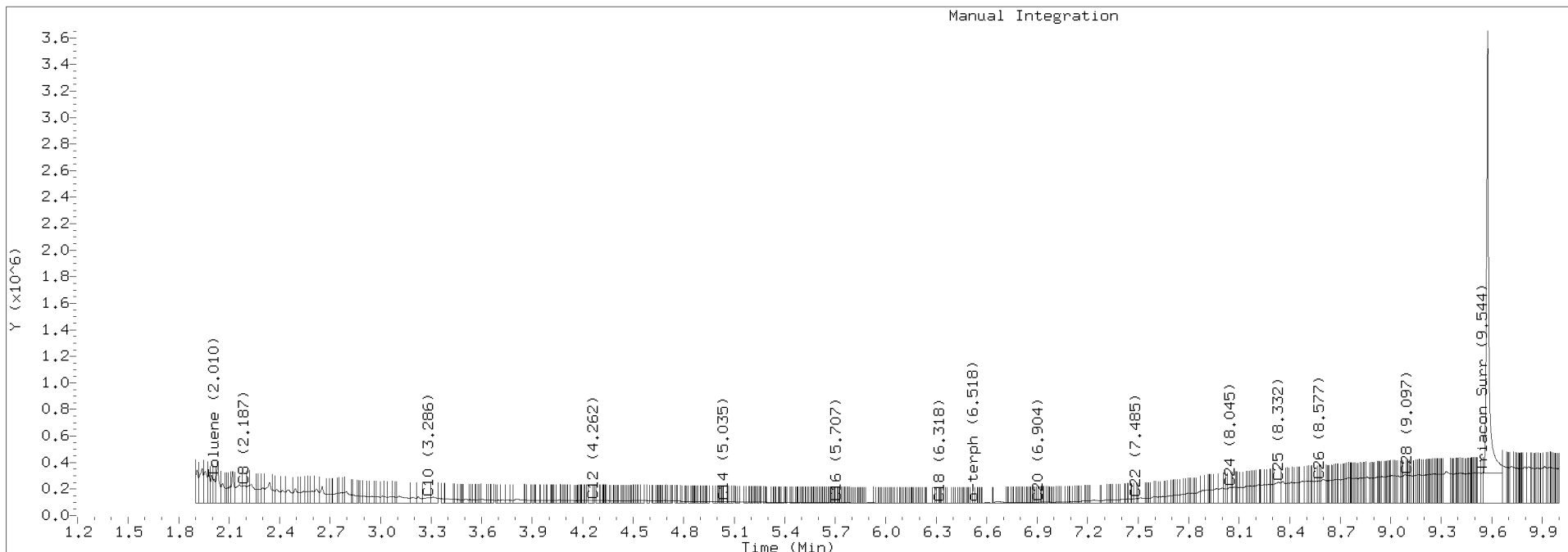
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

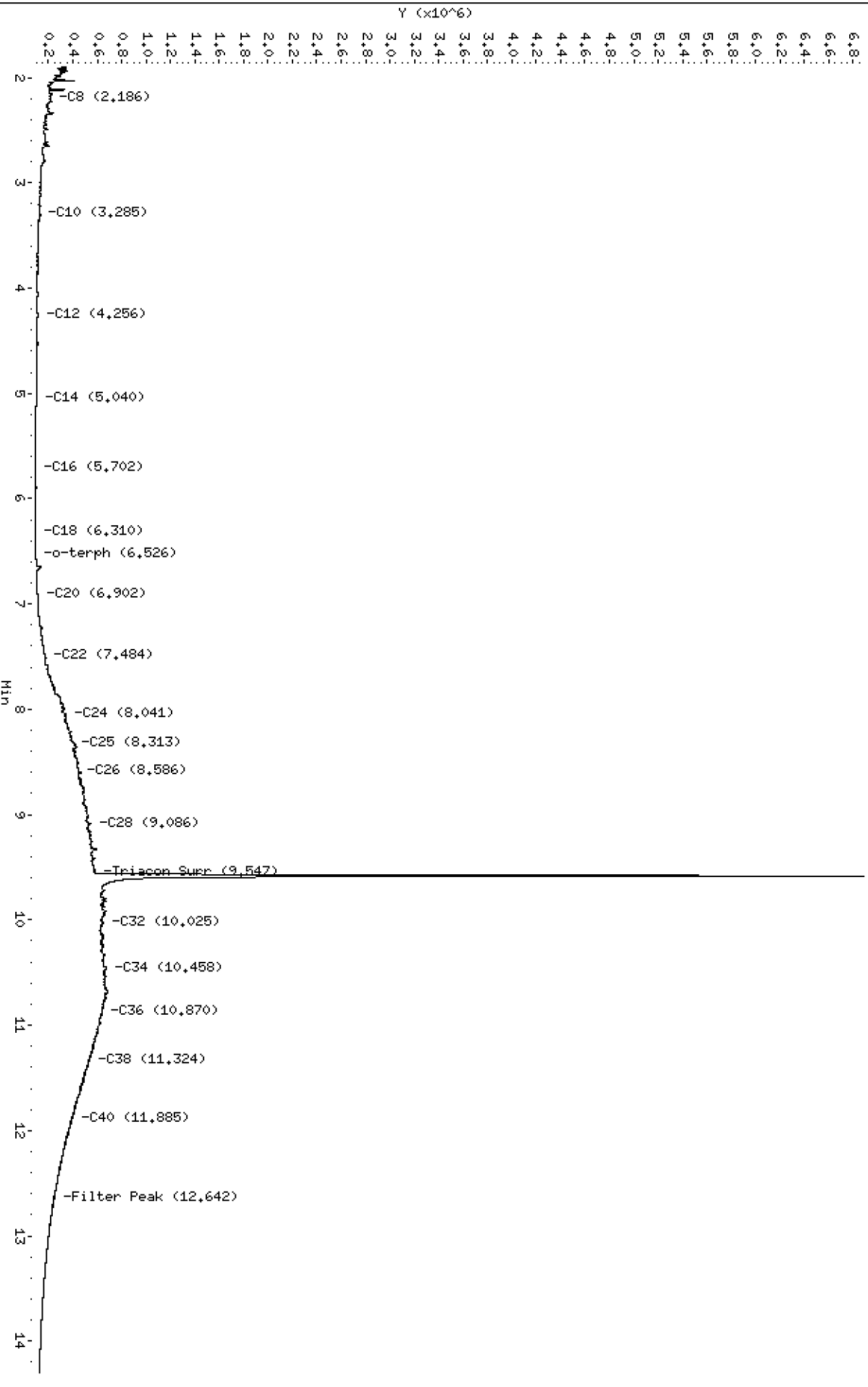
Column phase: RTX-1

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

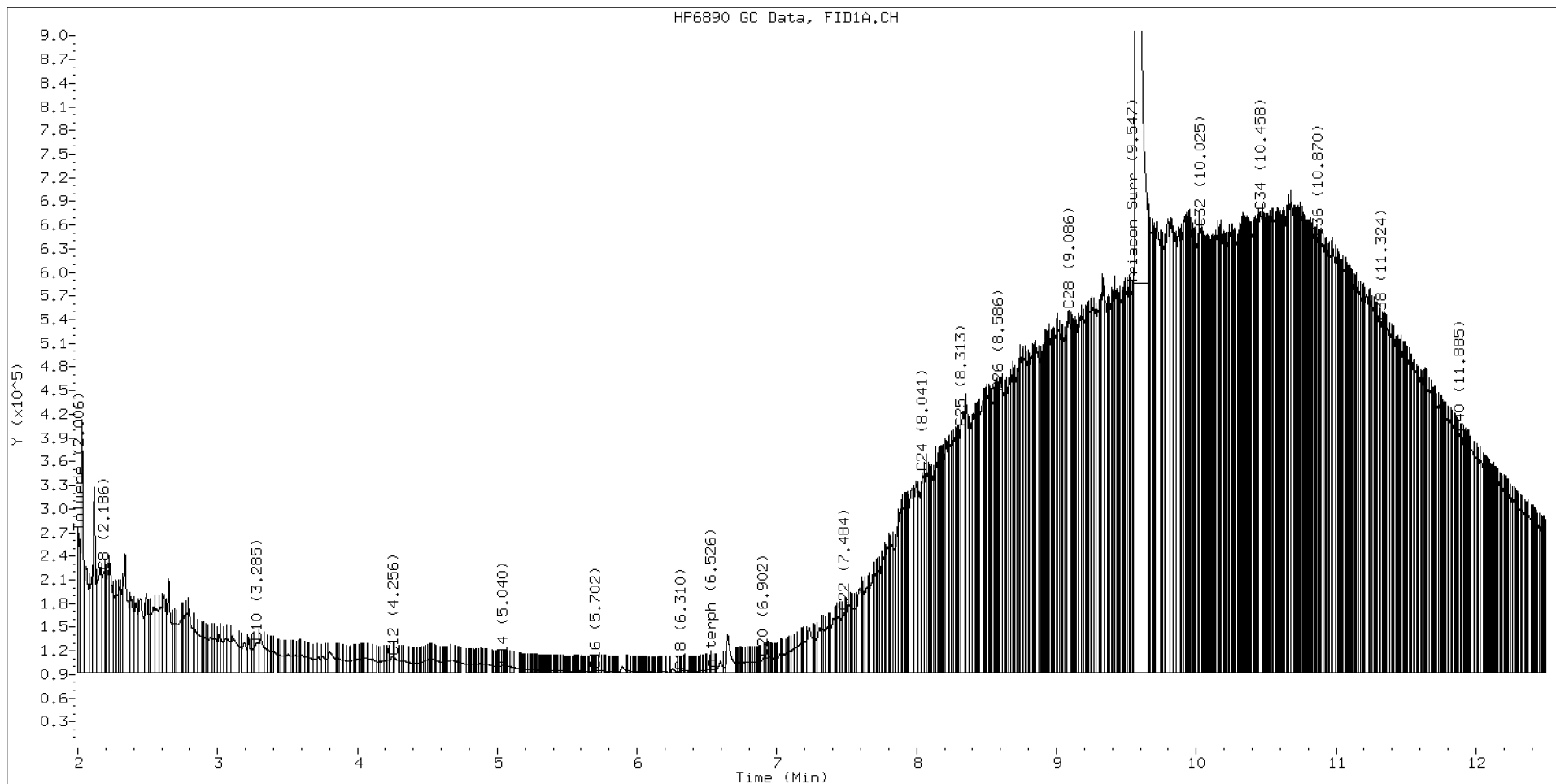
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	128234	148626	WATPHD	(C12-C24)	7988871	50.1
C10	3.285	-0.004	38172	74427	WATPHM	(C24-C38)	91762086	691.9
C12	4.256	-0.006	19290	11388	AK102	(C10-C25)	11765512	60.2
C14	5.040	0.003	8973	3968	AK103	(C25-C36)	75818758	1035.7
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

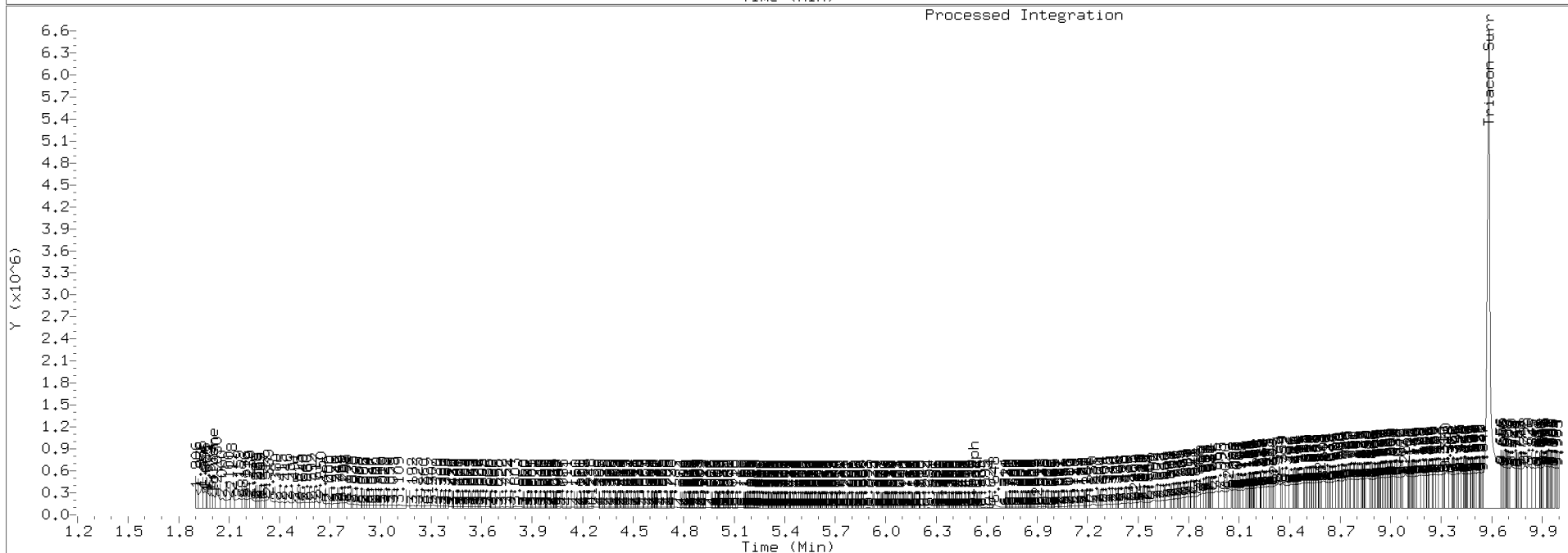
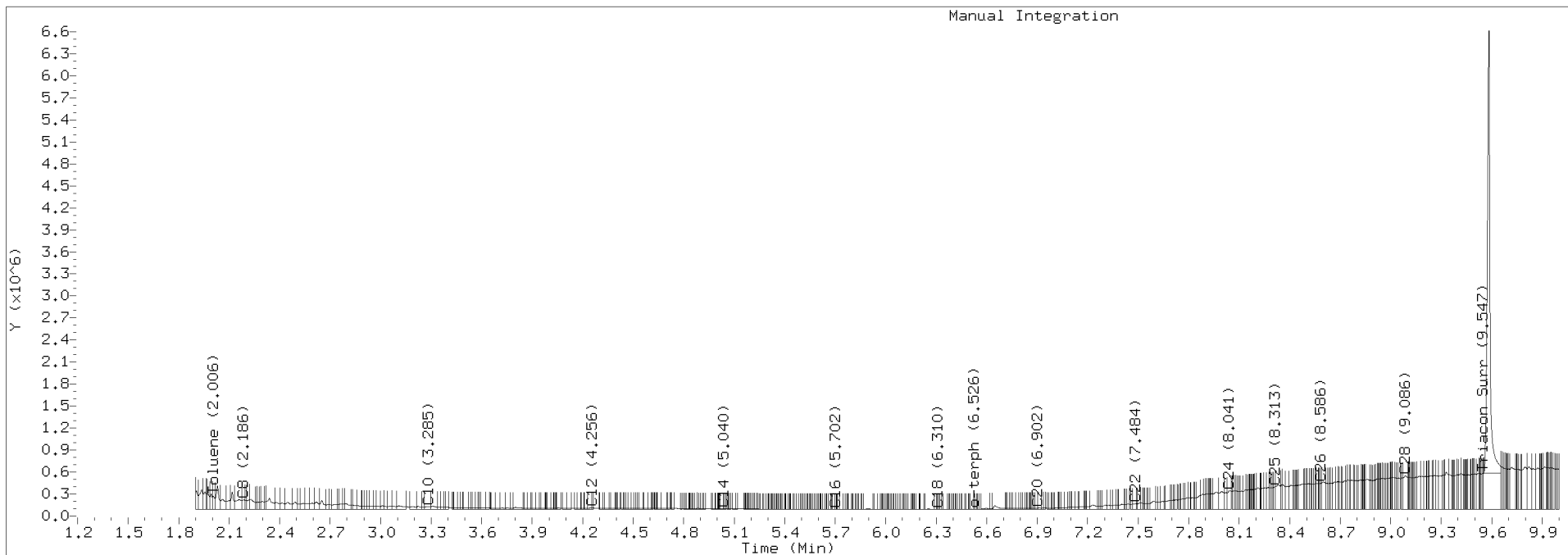
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

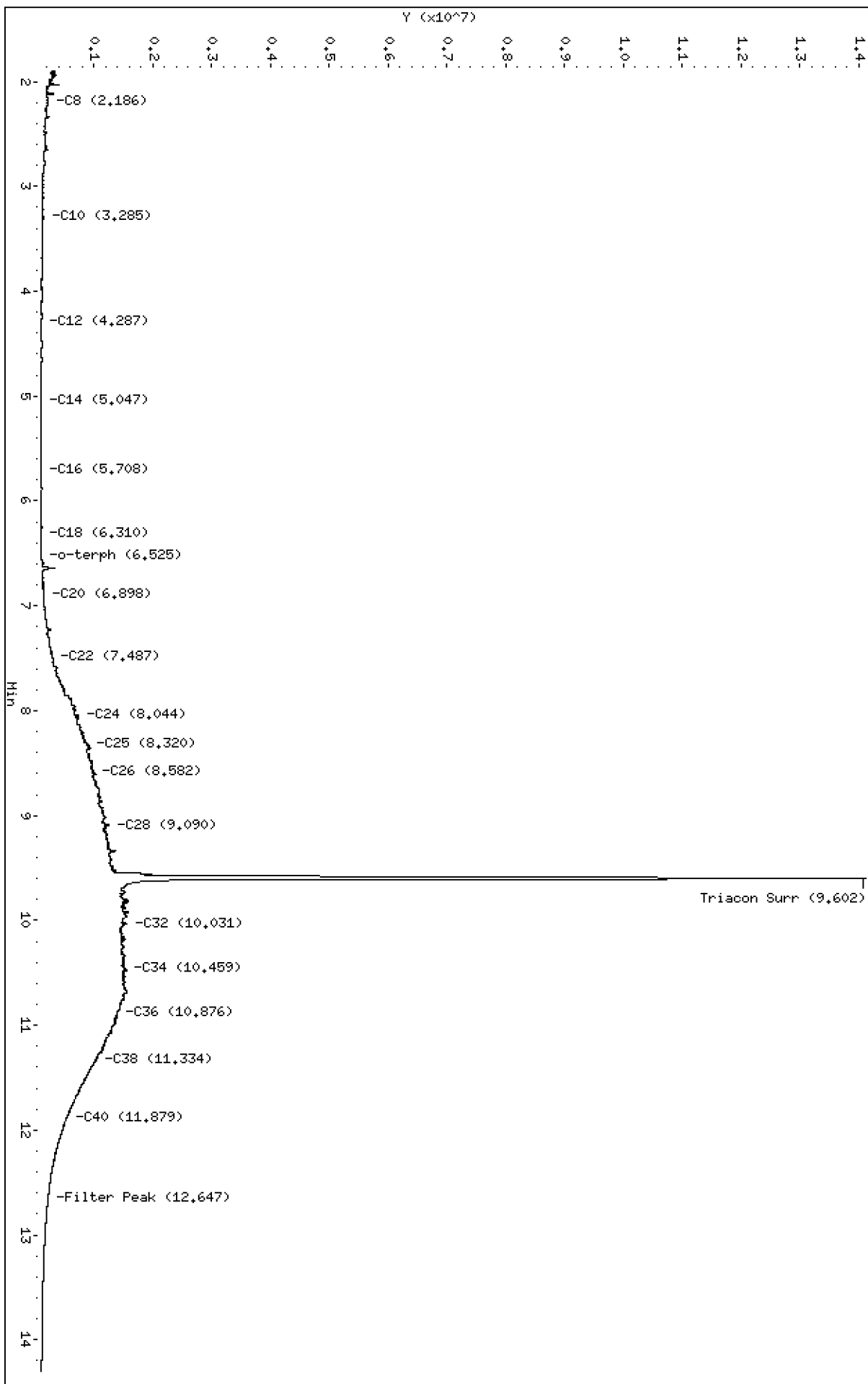
Column phase: RTX-1

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

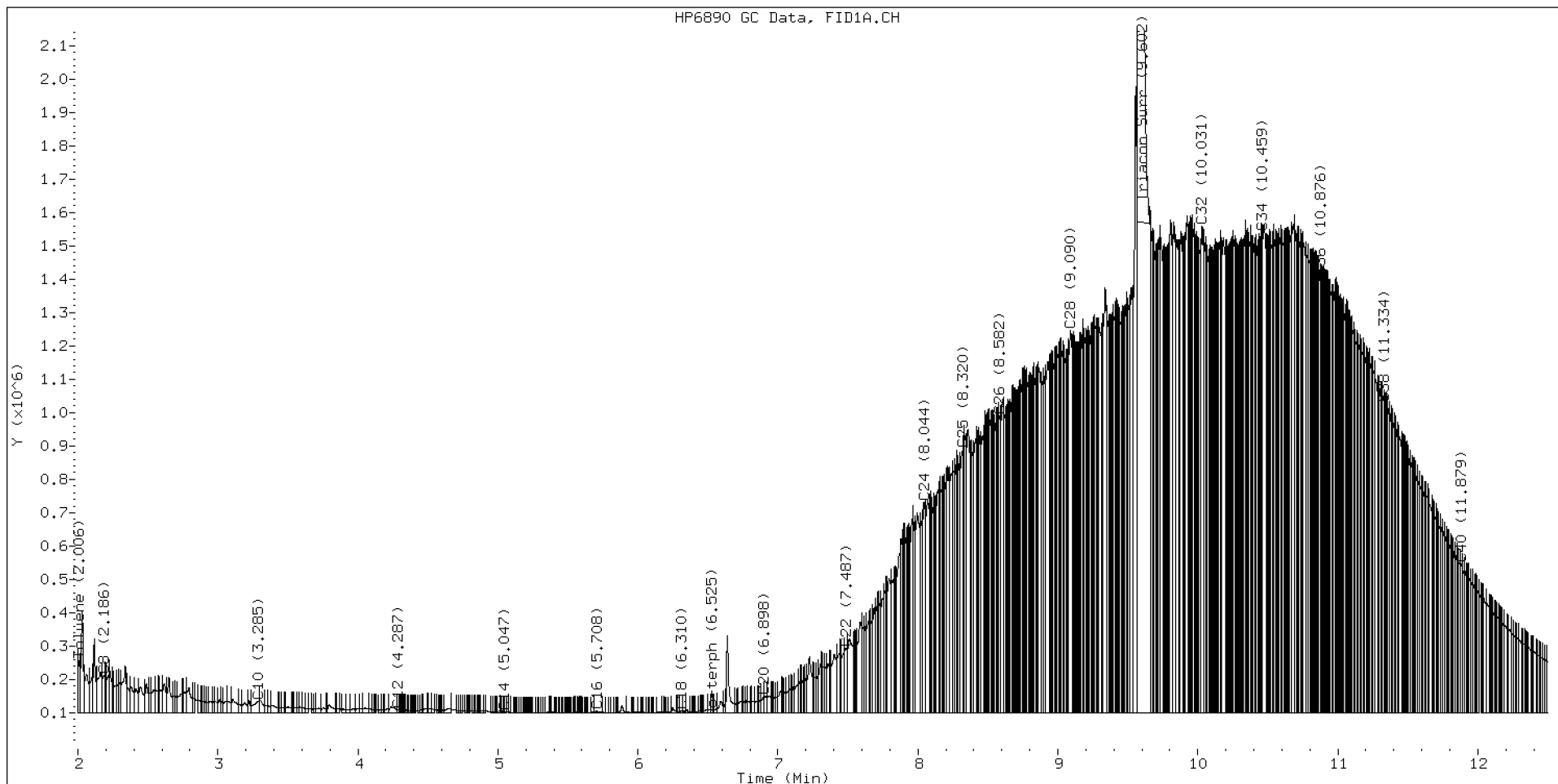
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	113560	125040	WATPHD	(C12-C24)	19771771	124.1
C10	3.285	-0.004	36541	95337	WATPHM	(C24-C38)	227849225	1717.9
C12	4.287	0.024	10394	7178	AK102	(C10-C25)	27372288	140.0
C14	5.047	0.009	4777	3830	AK103	(C25-C36)	191958289	2622.1
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

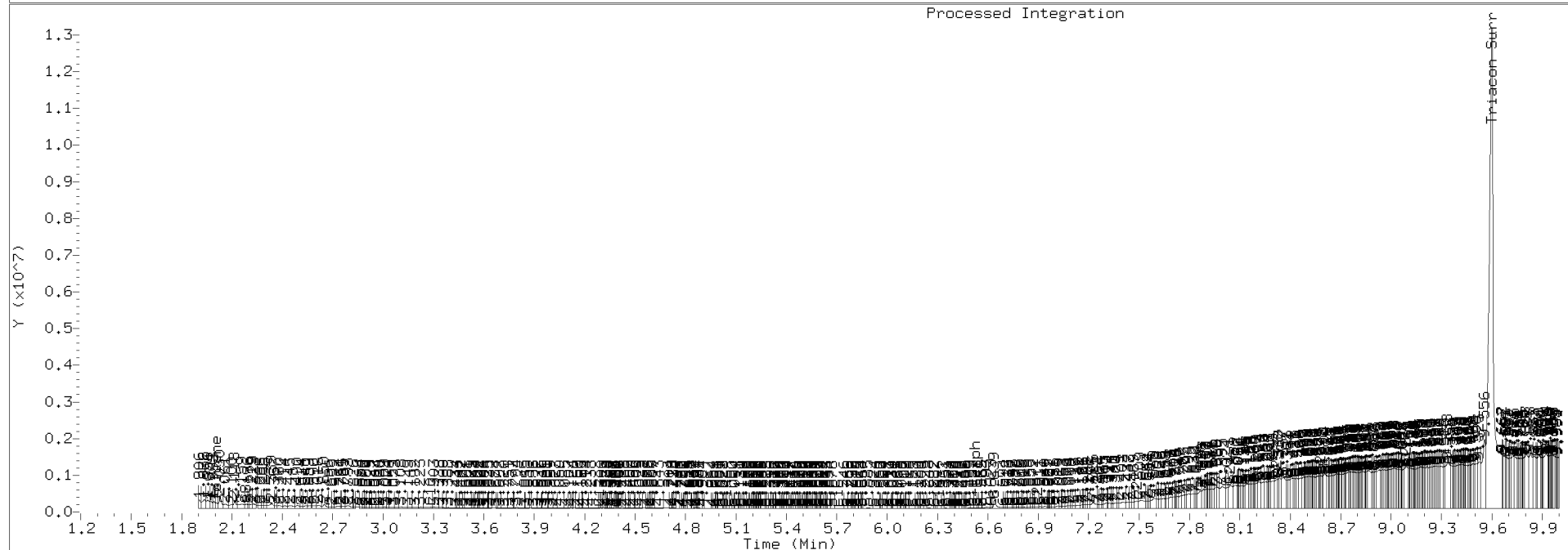
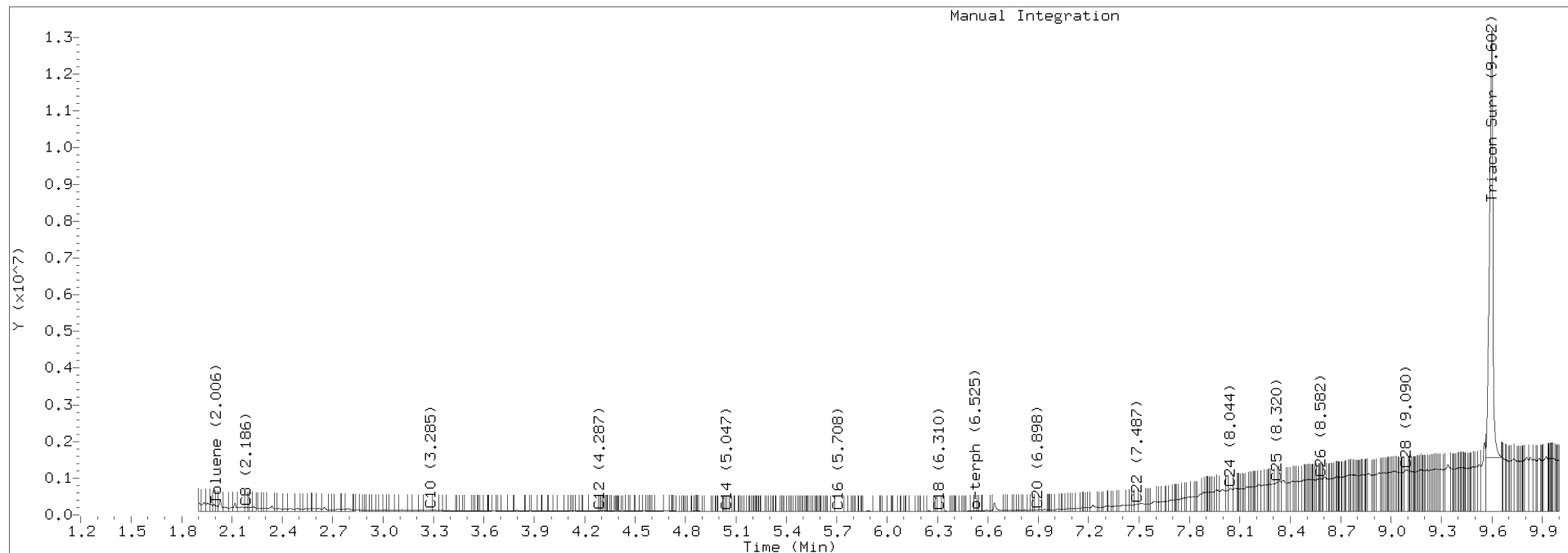
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

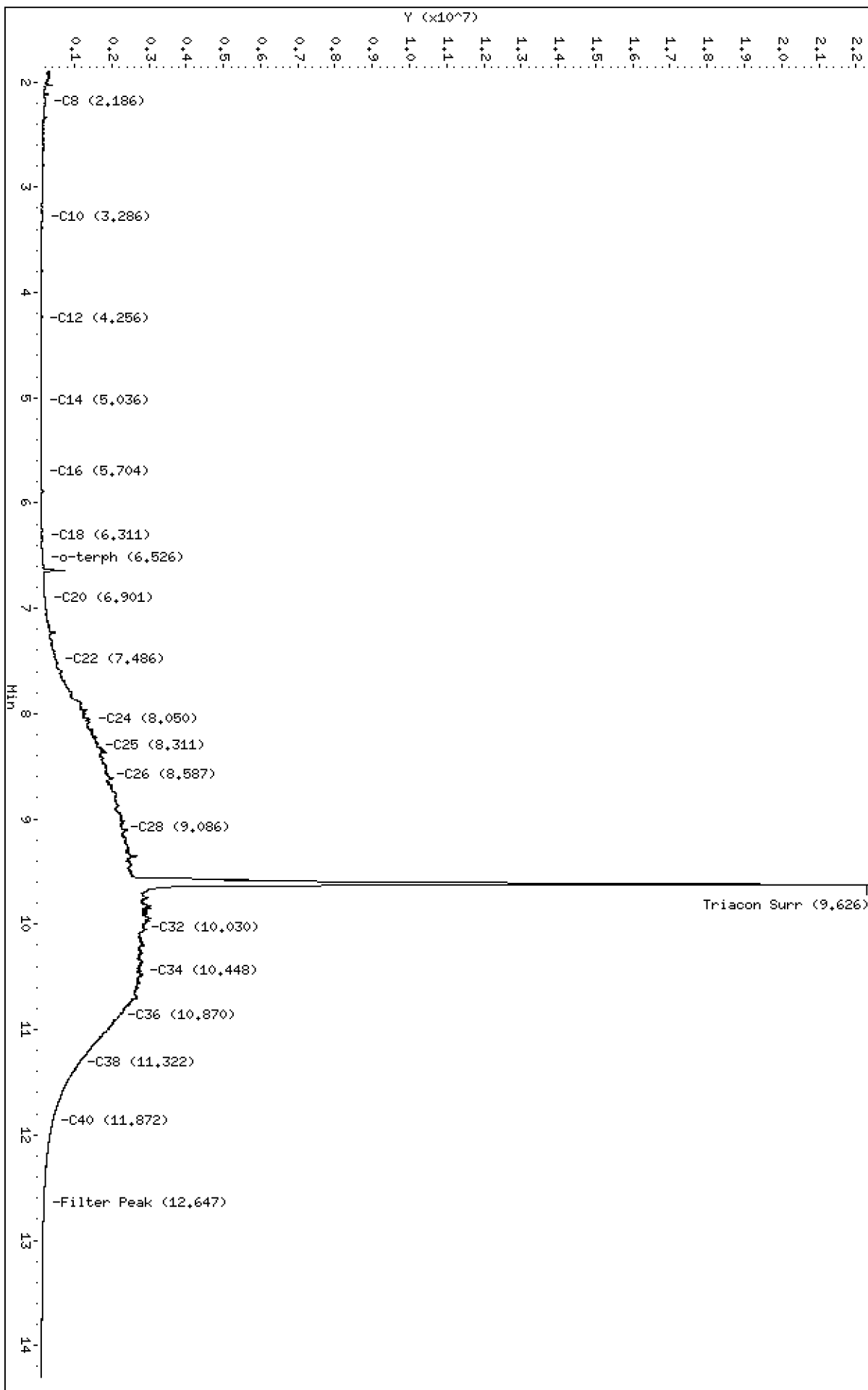
Column phase: RTX-1

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

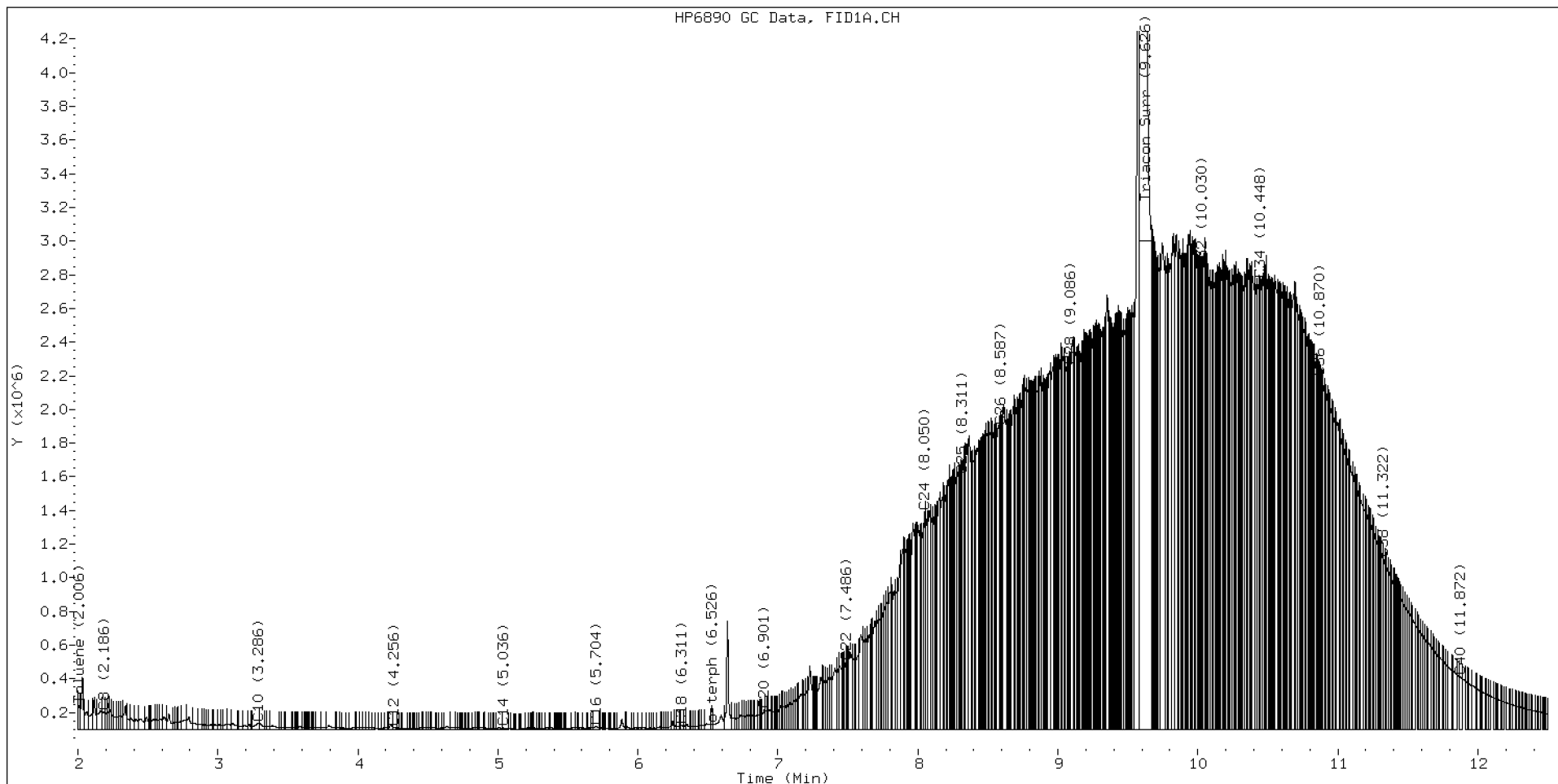
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.186	0.006	104064	109223	WATPHD	(C12-C24)	40416857	253.7
C10	3.286	-0.003	36956	80325	WATPHM	(C24-C38)	424850865	3203.2
C12	4.256	-0.007	12507	16346	AK102	(C10-C25)	54410917	278.3
C14	5.036	-0.001	8003	15931	AK103	(C25-C36)	374151503	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

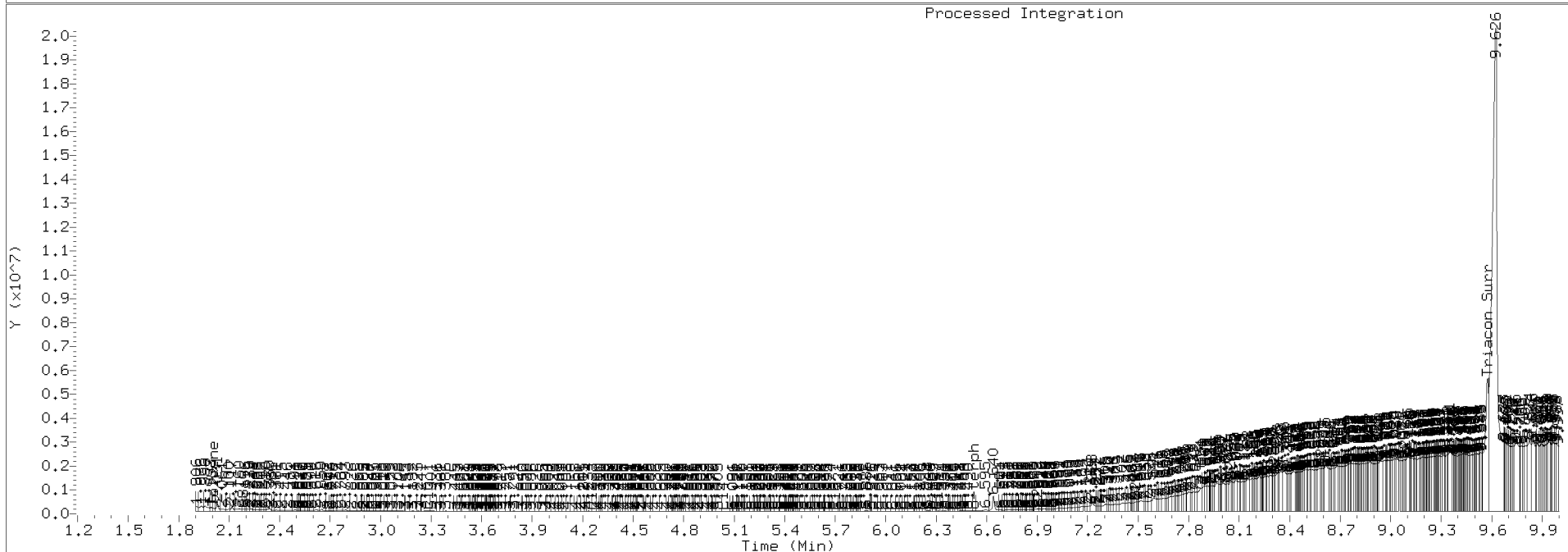
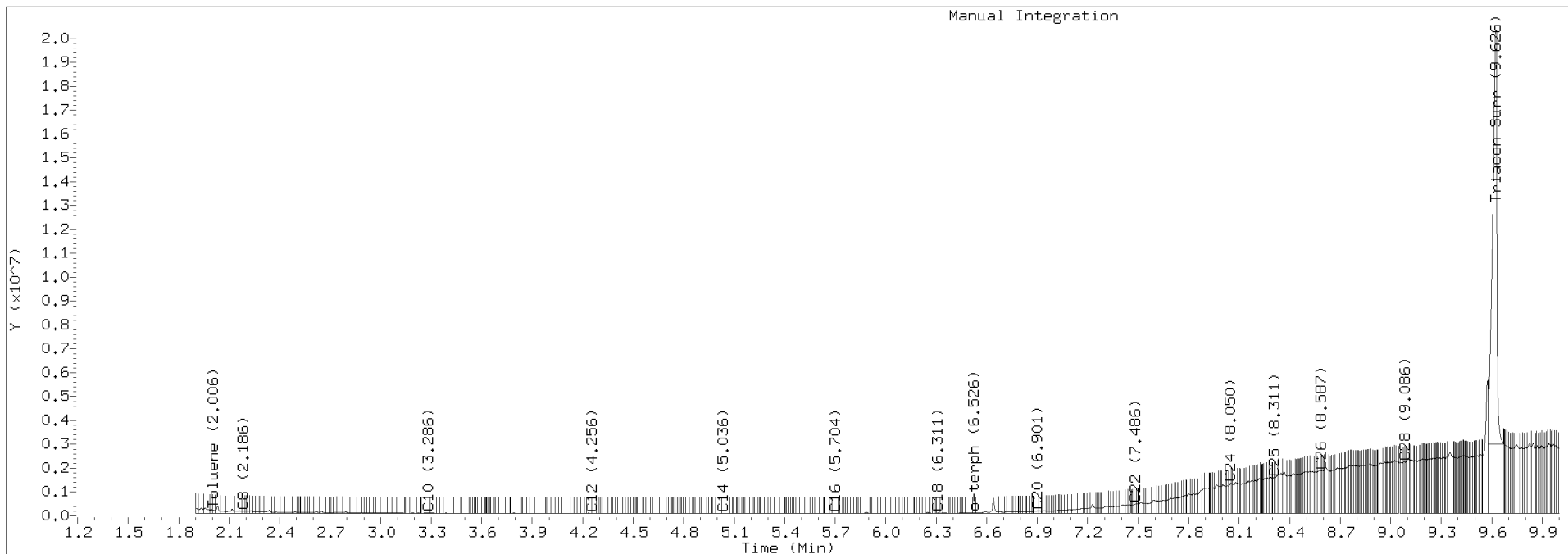
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	162518.2	20-NOV-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
20E0096-16	PH NW (Extractables) low lev	A 01	22				The Boeing Company	
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 _____



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
20E0096-13	PH NW (Extractables) low lev	A 01	43				The Boeing Company	
20E0096-15	PH NW (Extractables) low lev	A 01	44				The Boeing Company	
BIE0248-MS1	QC		45					
BIE0248-MSD1	QC		46					
20E0096-17	PH NW (Extractables) low lev	B 01	47				The Boeing Company	
20E0096-19	PH NW (Extractables) low lev	A 01	48				The Boeing Company	
20E0096-21	PH NW (Extractables) low lev	A 01	49				The Boeing Company	
BIE0282-BLK1	QC		50					
BIE0282-BS1	QC		51					
BIE0282-BSD1	QC		52					
20E0151-01	PH NW (Extractables) low lev	F 01	53				The Boeing Company [North Boeing Field]	
20E0160-01	PH NW (Extractables) low lev	C 01	54				Davis Wire Corporation	
SIE0162-CCV9	QC		55		I002687			
SIE0162-CCVA	QC		56		H010706			
SIE0162-CCVB	QC		57		H011231			

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

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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

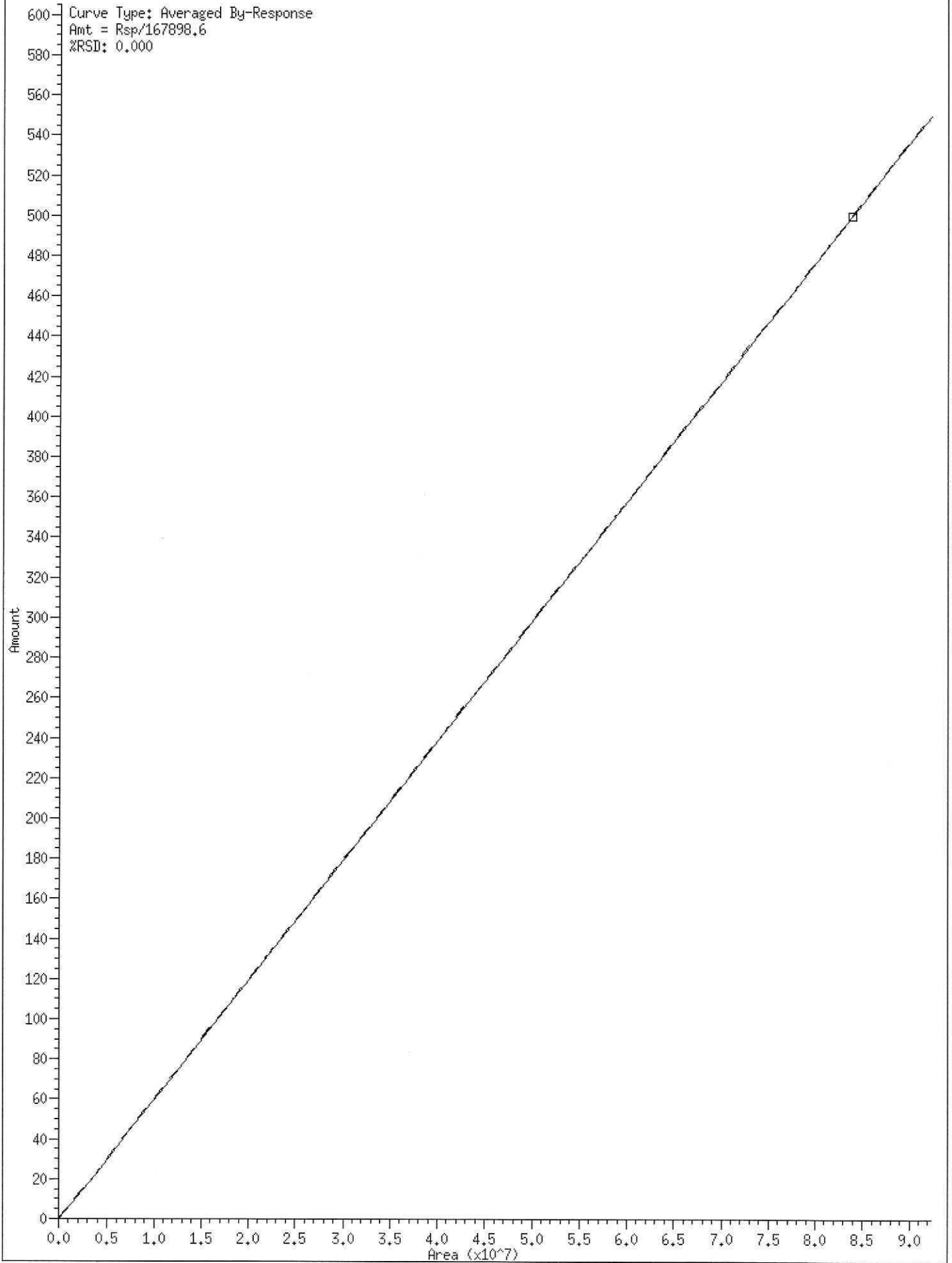
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0046	420E1955.D	20E0151-01		1	NO MANUAL INTEGRATION
0105	420E1956.D	20E0160-01		1	o-terph,
0125	420E1957.D	SIE0162-CCV9		1	o-terph,
0144	420E1958.D	SIE0162-CCVA		1	Triacon Surr,
0203	420E1959.D	SIE0162-CCVB		1	NO MANUAL INTEGRATION

Security Status Report

Date: 20-May-2020 08:42

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420E1919.D	Data Locked	christopher,	20-May-2020	08:20
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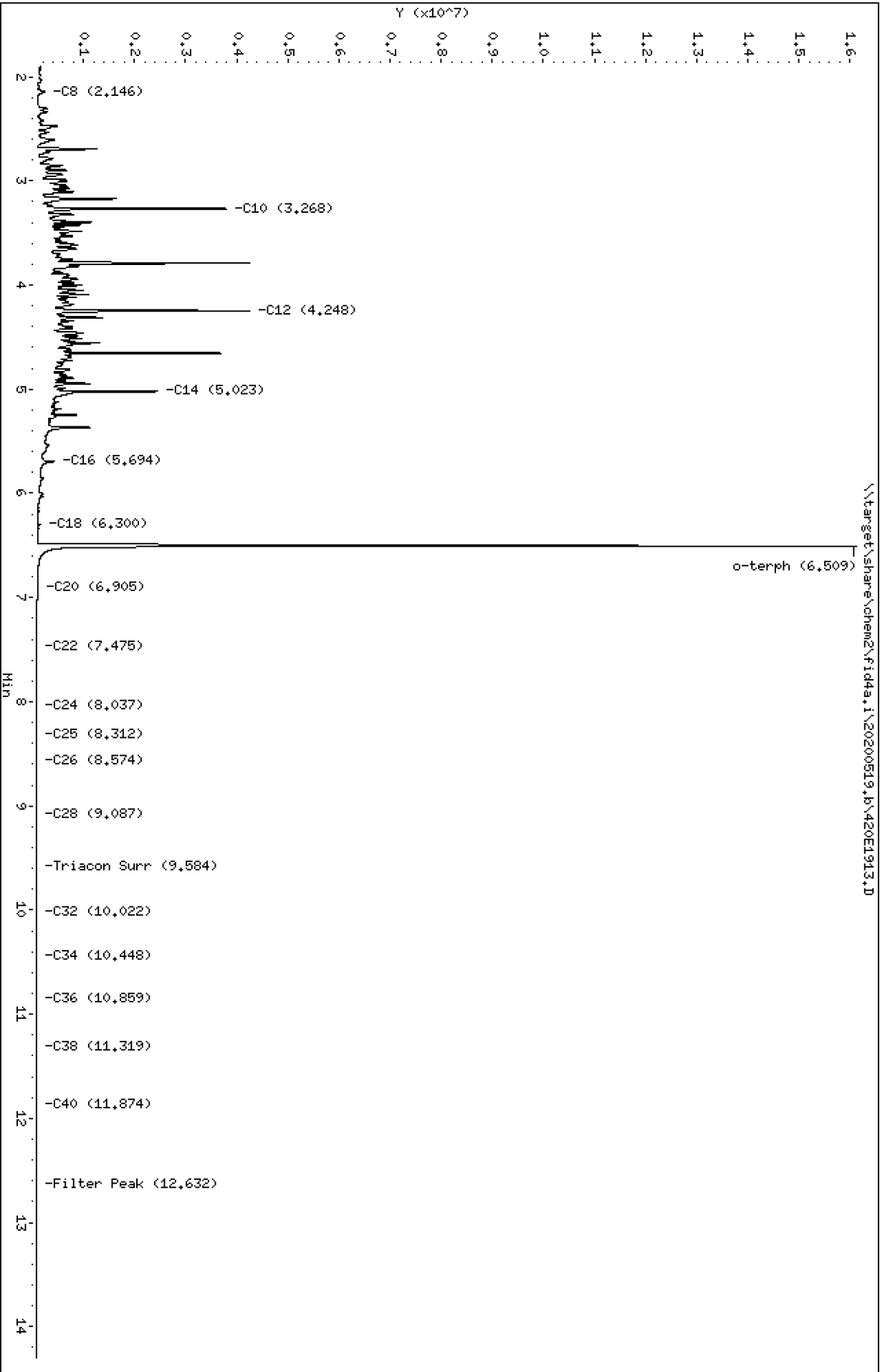
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Data File: \\target\share\chem2\fid4a,1\20200519_b\420E1913.D
Date: 19-May-2020 11:05
Client ID:
Sample Info: SIE0162-CAL1

Column phase: RTX-1

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



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

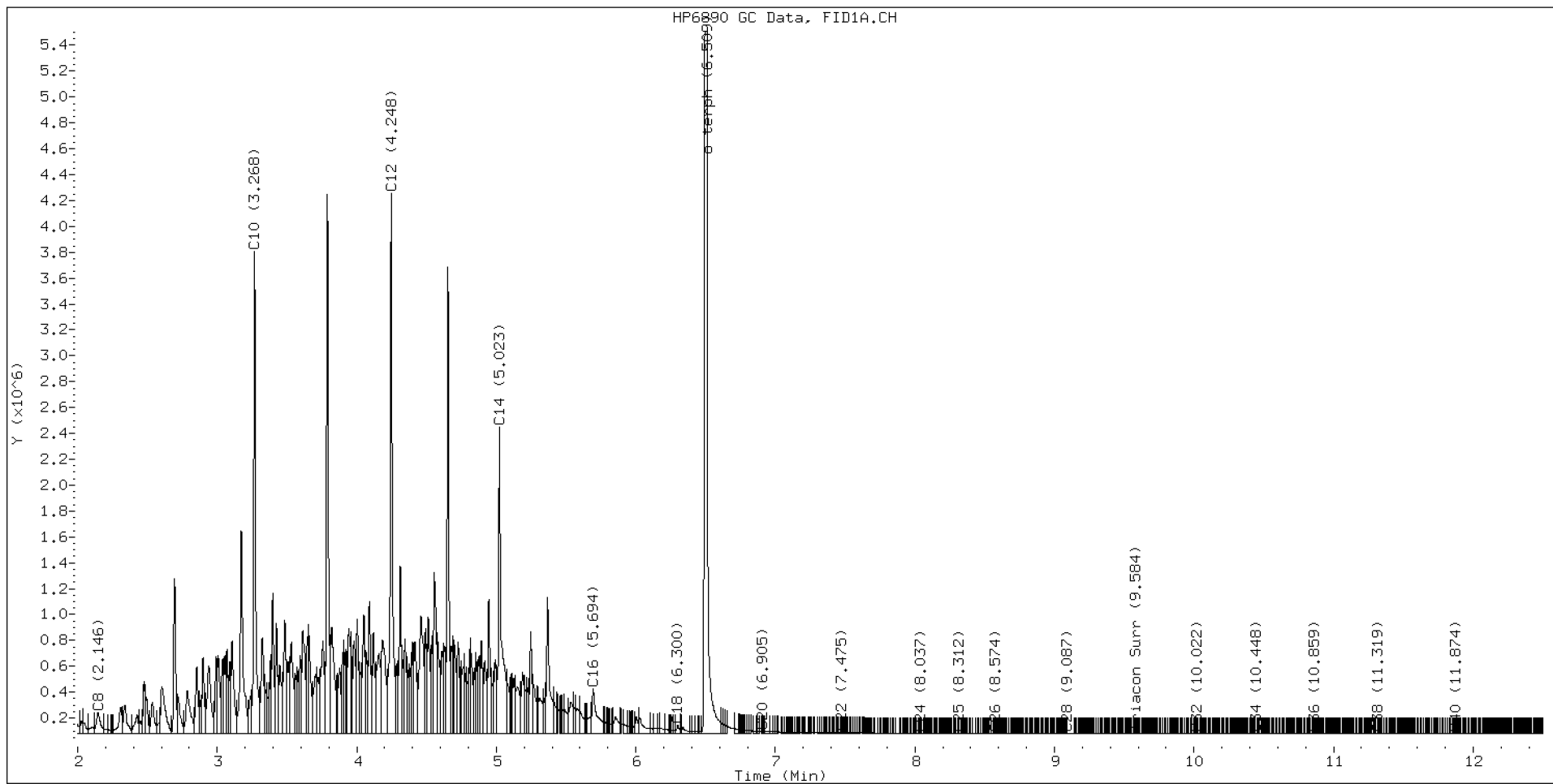
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.146	-0.014	162537	351667	WATPHD	(C12-C24)	43793314	274.8
C10	3.268	-0.006	3727060	3670074	WATPHM	(C24-C38)	298844	2.3
C12	4.248	-0.001	4175422	4596909	AK102	(C10-C25)	84977552	434.7
C14	5.023	-0.002	2366943	3478731	AK103	(C25-C36)	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





ANALYSIS SEQUENCE

SIF0018

Instrument: FID4
Calibration ID: DA00022

Printed: 6/2/2020 12:49:08PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIF0018-IBL1	QC		1		H010802			
SIF0018-IBL2	QC		2		I000651			
SIF0018-CAL1	QC		3		I004752			
SIF0018-CAL2	QC		4		I004753			
SIF0018-CAL3	QC		5		I004754			
SIF0018-CAL4	QC		6		I004755			
SIF0018-CAL5	QC		7		I004756			
SIF0018-CAL6	QC		8		I003778			
SIF0018-SCV1	QC		9		I004757			

Samples Loaded By Date

Data Processed By Date

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

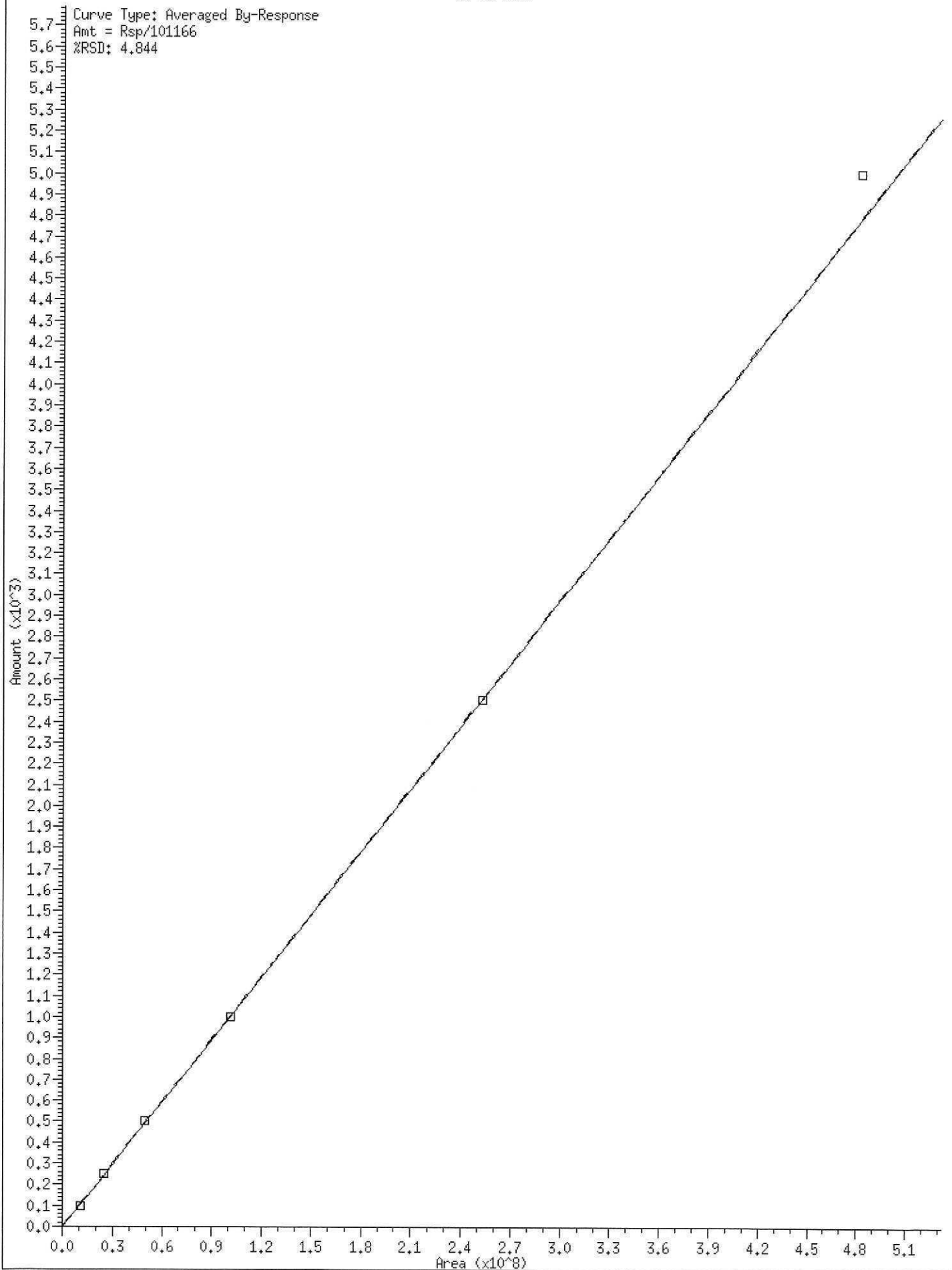
ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 02-JUN-2020

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

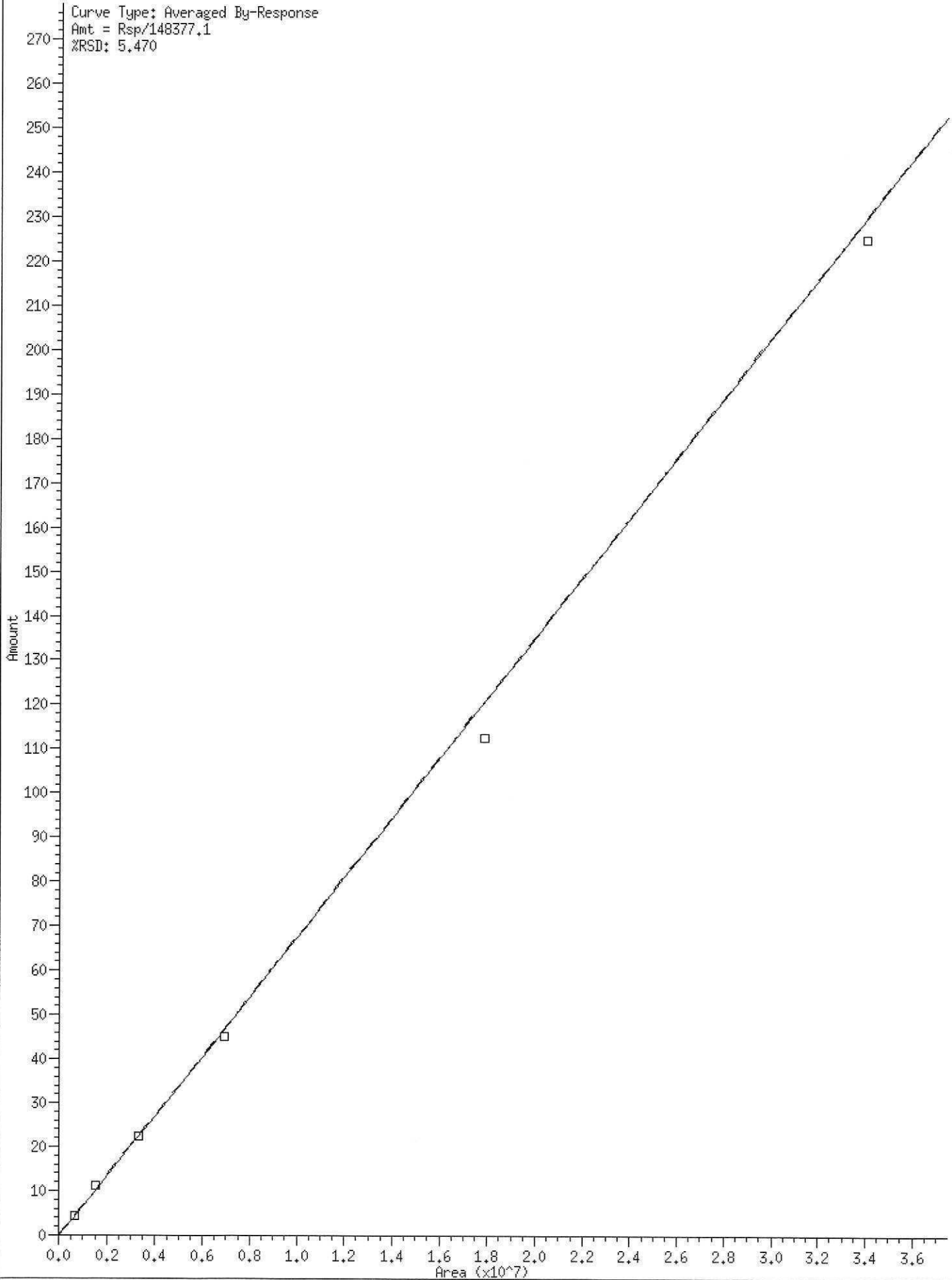
Date: 02-Jun-2020 12:52

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420F0208.D	Data Locked	christopher, 02-Jun-2020 12:51
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* 15 Triacon Surr

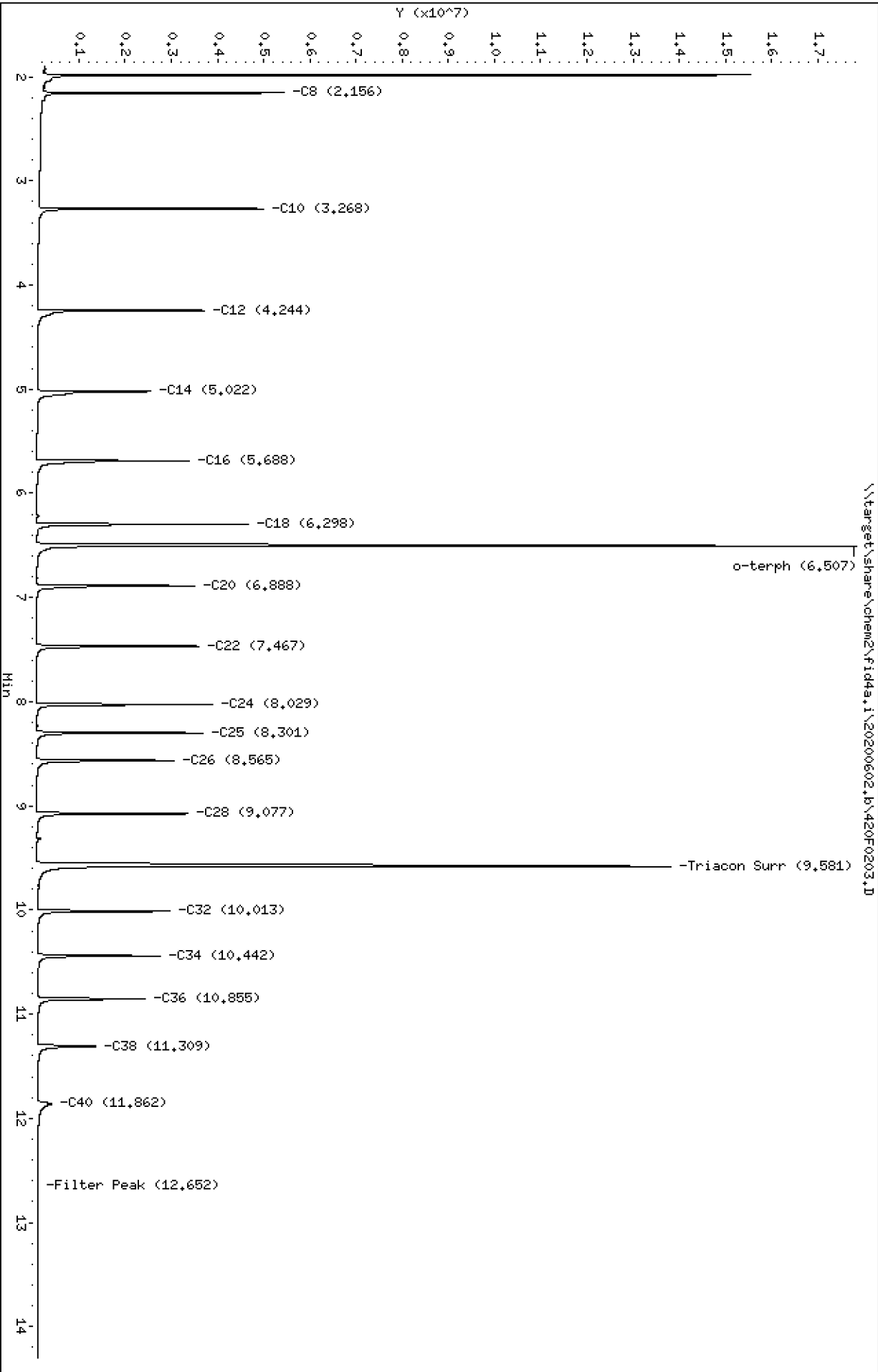
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Date : 02-JUN-2020 08:19
Client ID:
Sample Info: SIF0018-IBL1

Column phase: RTX-1

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



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

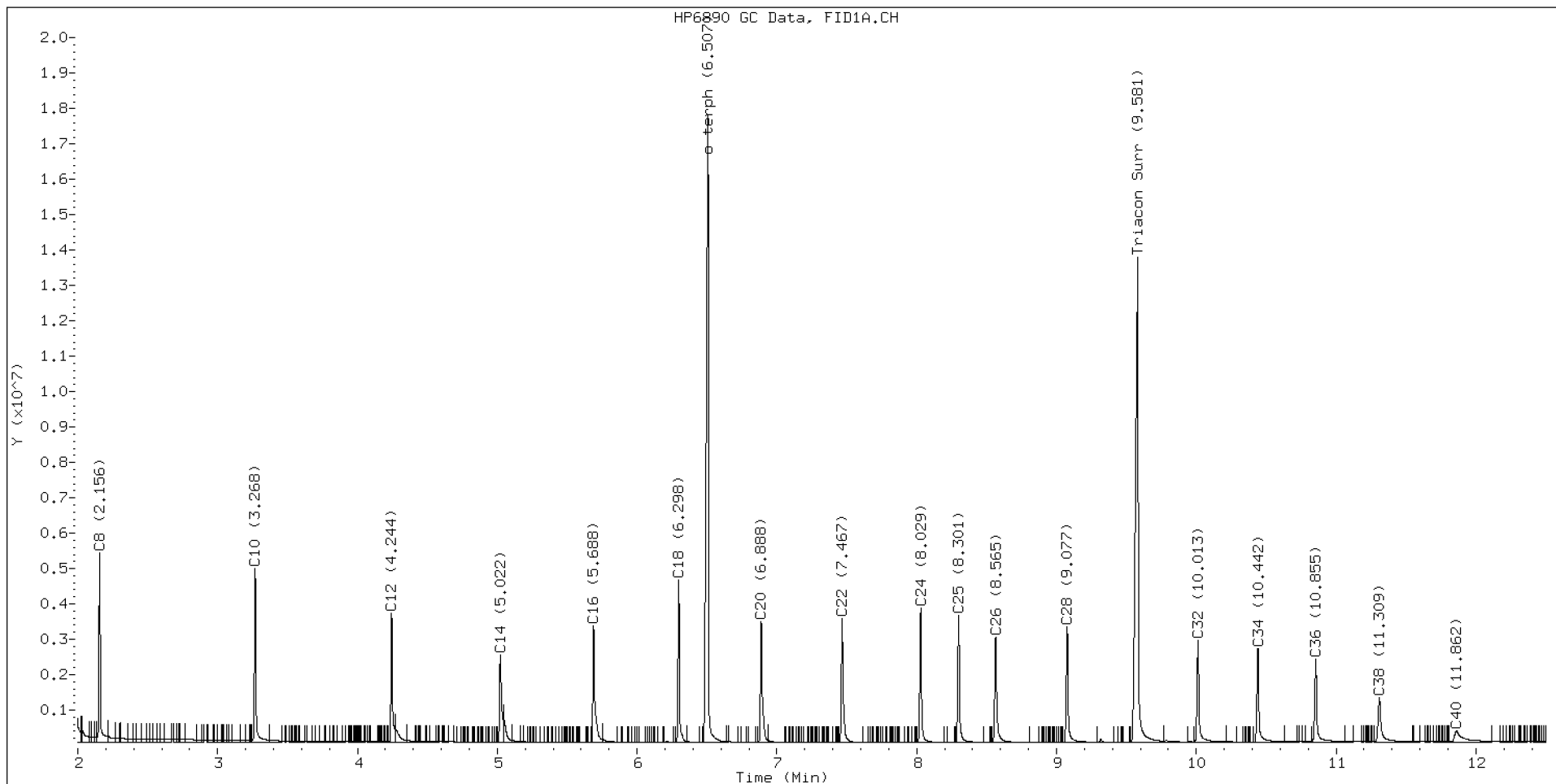
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.156	0.000	5355192	4028421	WATPHD	(C12-C24)	22818714	143.2
C10	3.268	0.000	4929332	4012342	WATPHM	(C24-C38)	23499770	232.3
C12	4.244	0.000	3648375	2898492	AK102	(C10-C25)	32299571	165.2
C14	5.022	0.000	2469047	2611753	AK103	(C25-C36)	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

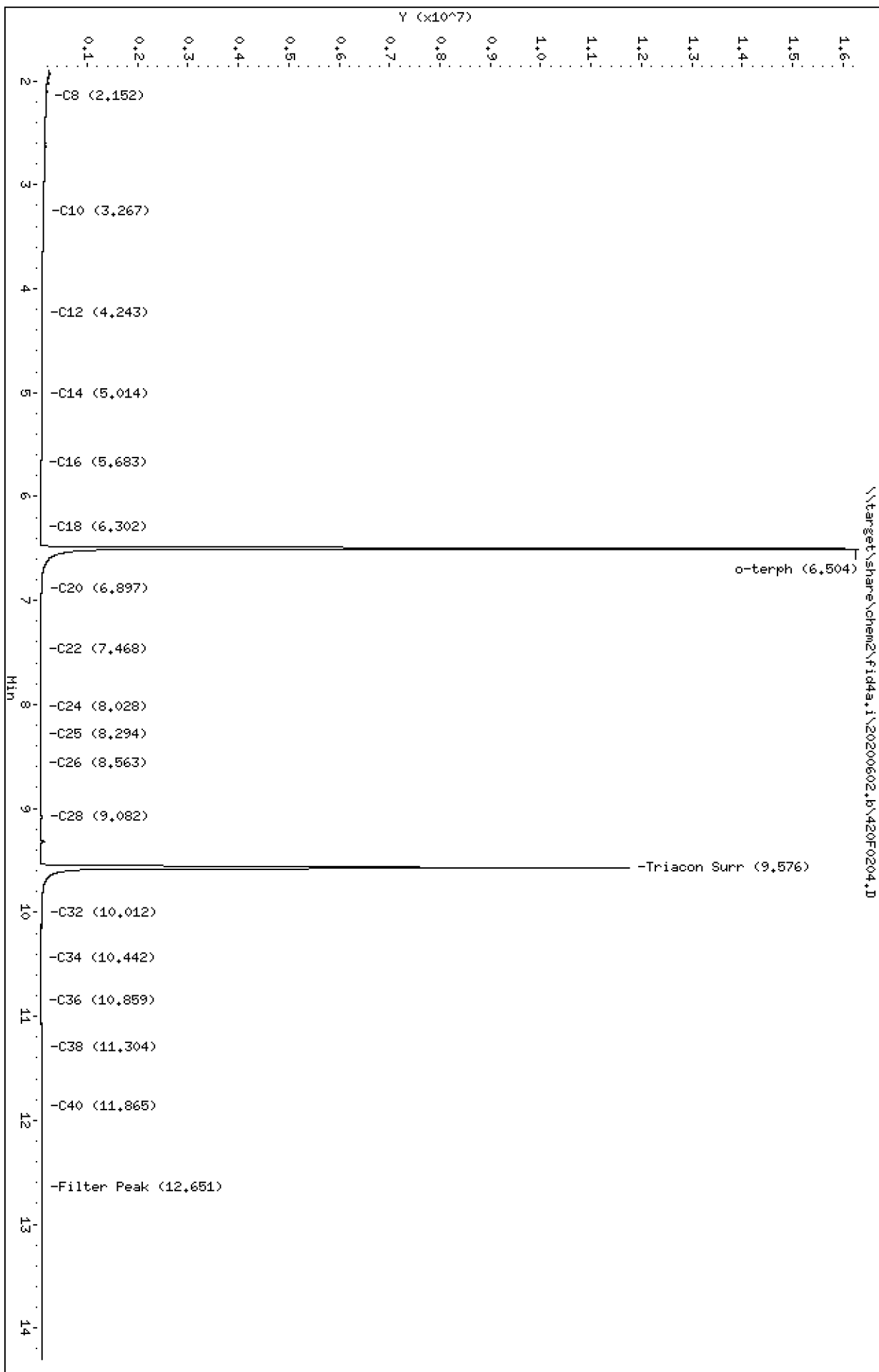
Column phase: RTX-1

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

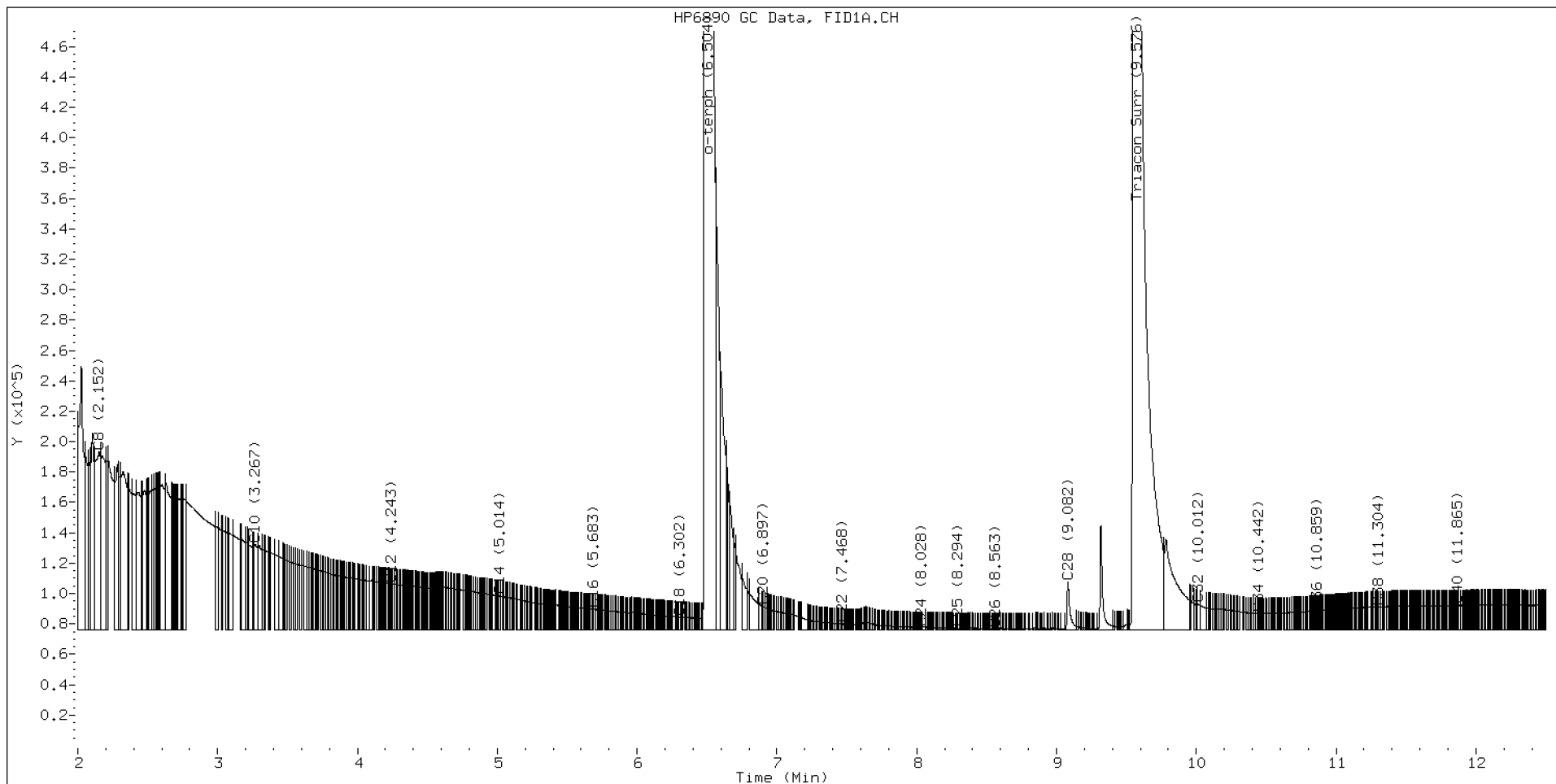
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.003	116720	322381	WATPHD	(C12-C24)	3533716	22.2
C10	3.267	-0.001	56124	109426	WATPHM	(C24-C38)	1474603	14.6
C12	4.243	-0.001	30150	13517	AK102	(C10-C25)	5497571	28.1
C14	5.014	-0.008	22108	20838	AK103	(C25-C36)	1111901	15.2
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

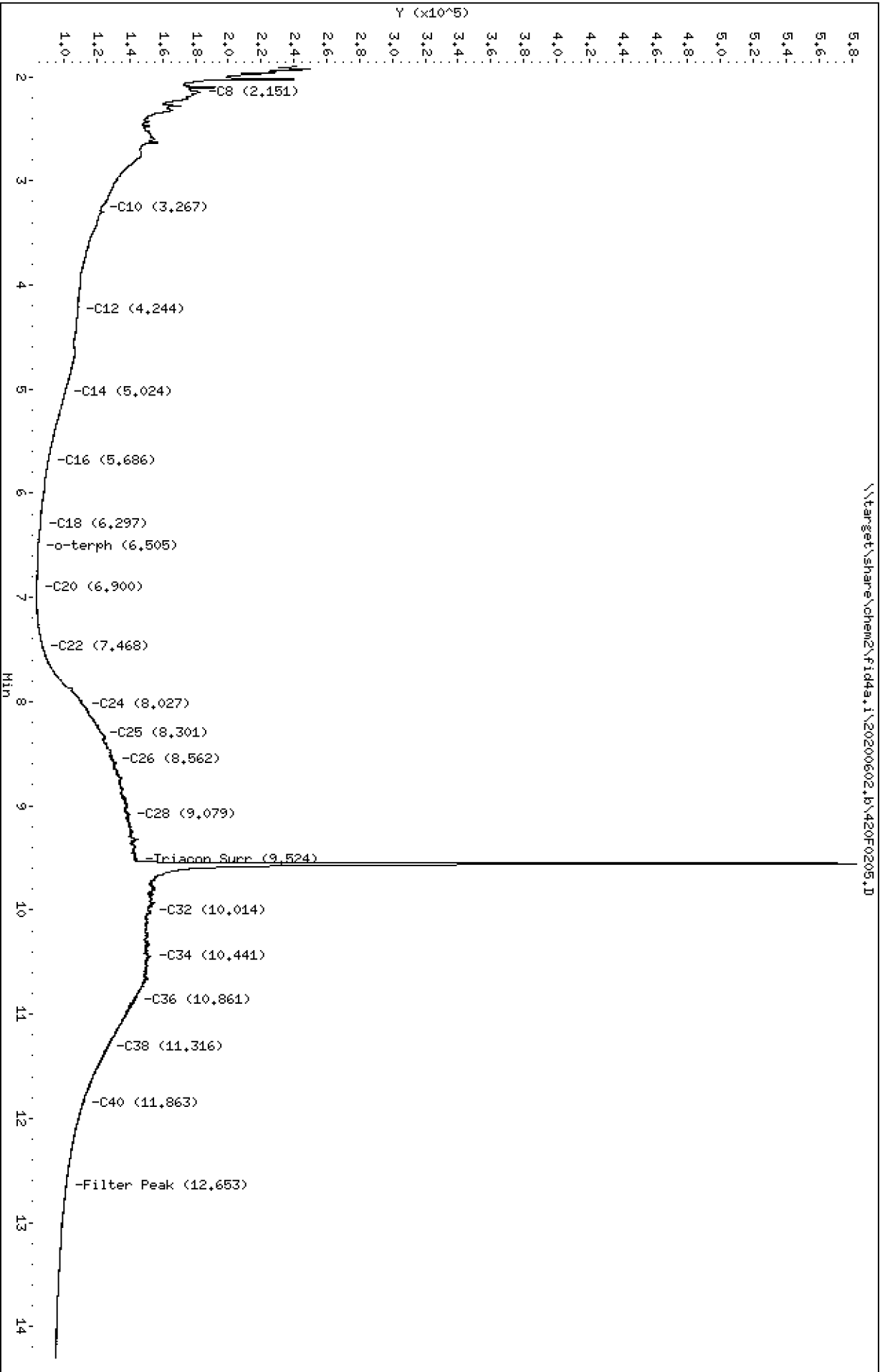
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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-CALL

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

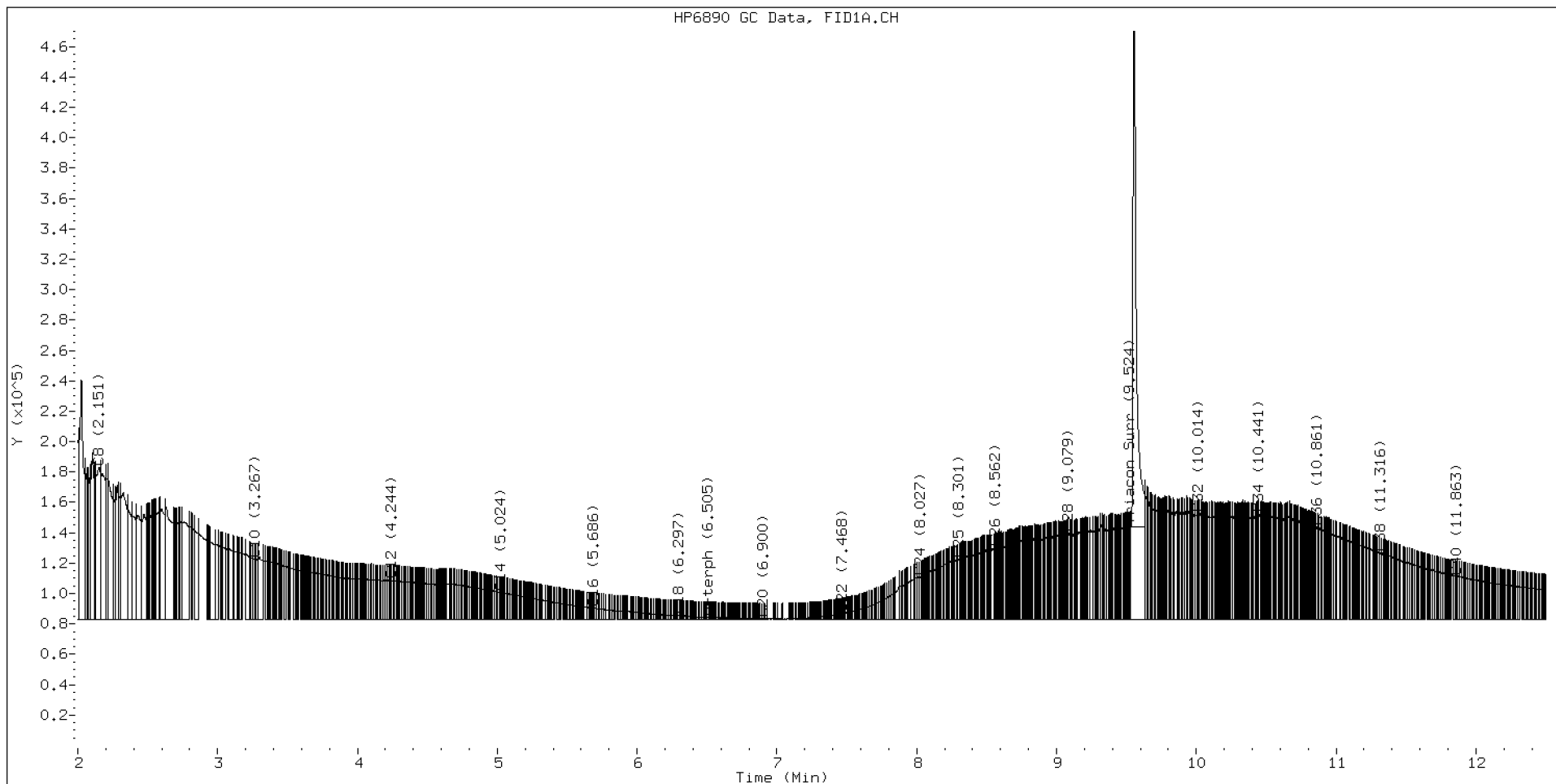
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.151	-0.005	99980	217759	WATPHD	(C12-C24)	2058424	12.9
C10	3.267	-0.001	39589	29601	WATPHM	(C24-C38)	11047515	109.2
C12	4.244	-0.001	25508	17793	AK102	(C10-C25)	4072327	20.8
C14	5.024	0.003	17563	10459	AK103	(C25-C36)	9356465	127.8
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

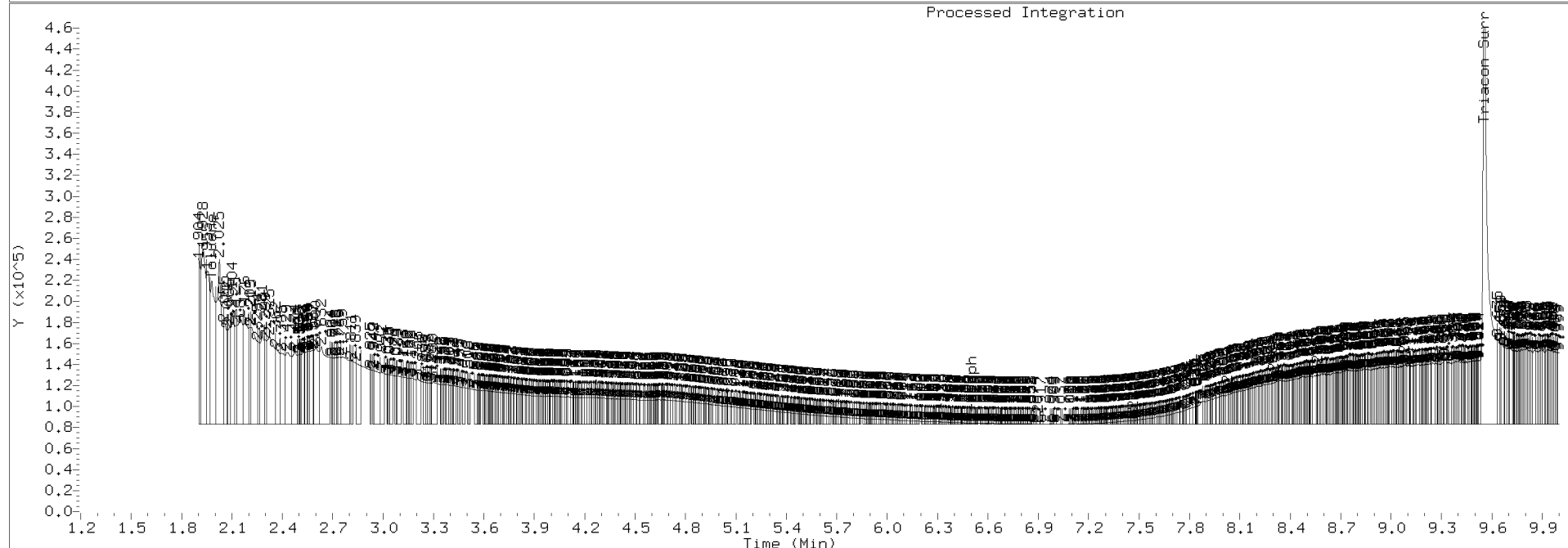
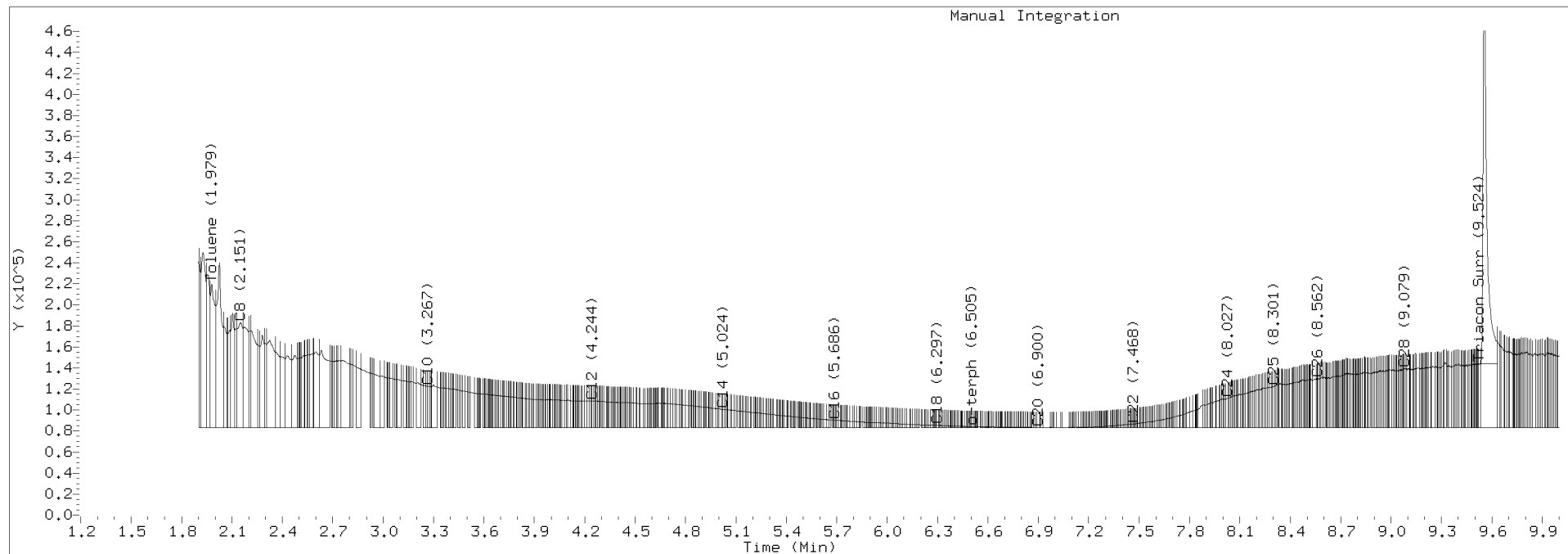
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	41237.8	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20200602.b/420F0205.D Injection: 02-JUN-2020 08:58

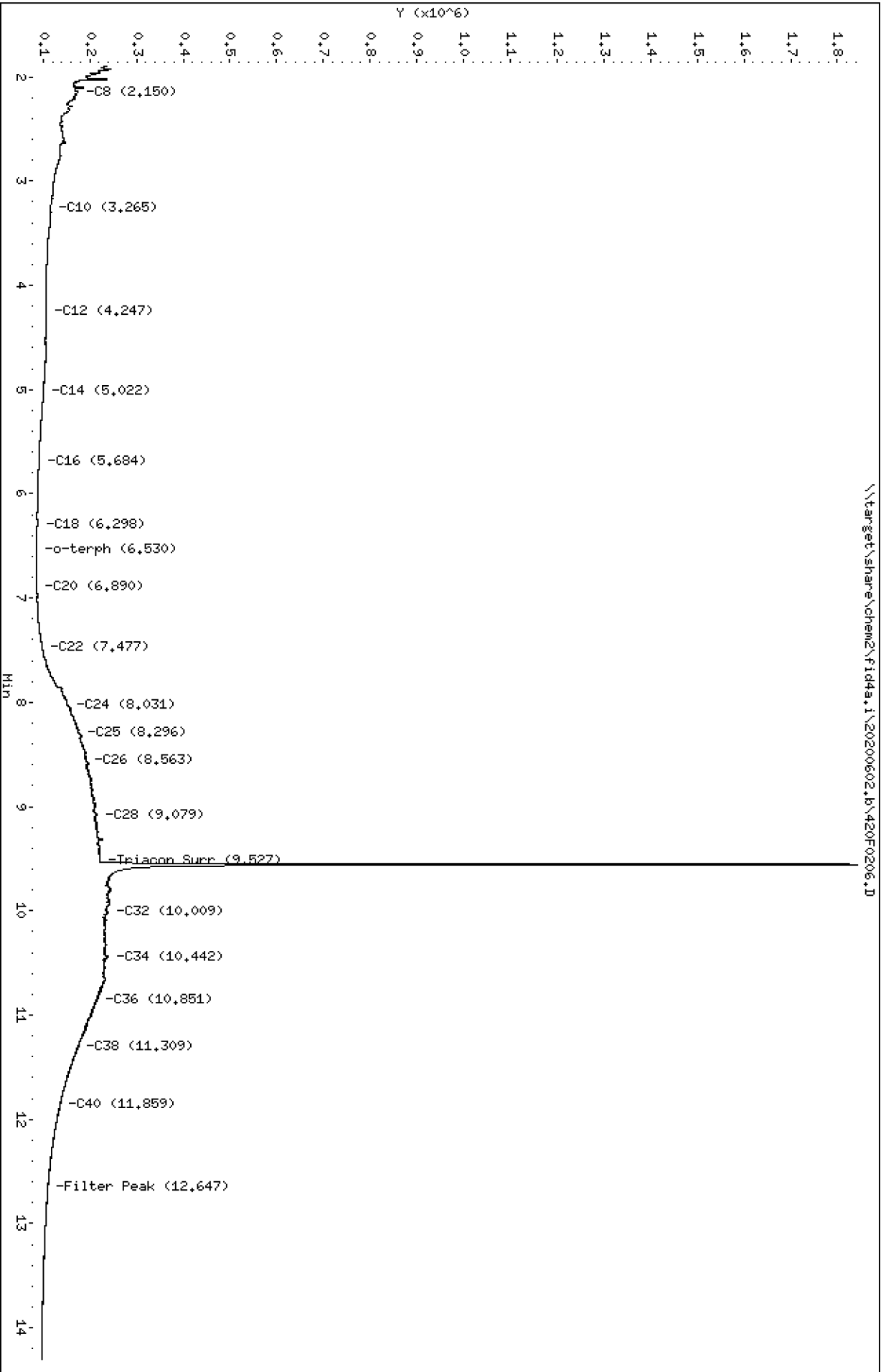
Lab ID:SIF0018-CAL1



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

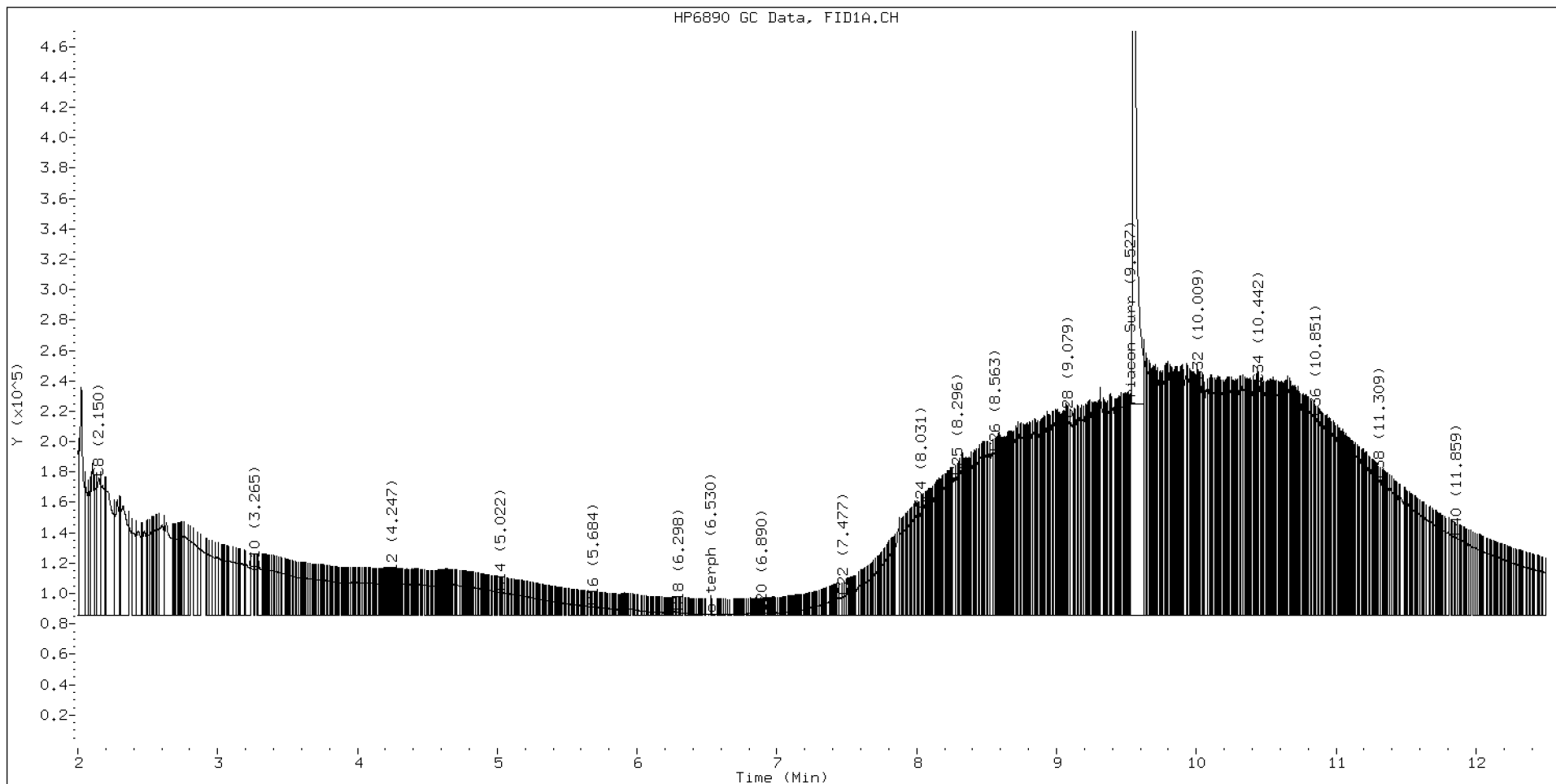
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.150	-0.006	89858	185422	WATPHD	(C12-C24)	2712070	17.0
C10	3.265	-0.003	30146	13534	WATPHM	(C24-C38)	24525710	242.4
C12	4.247	0.002	20913	5217	AK102	(C10-C25)	4830477	24.7
C14	5.022	0.000	14927	5202	AK103	(C25-C36)	21012310	287.0
C16	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

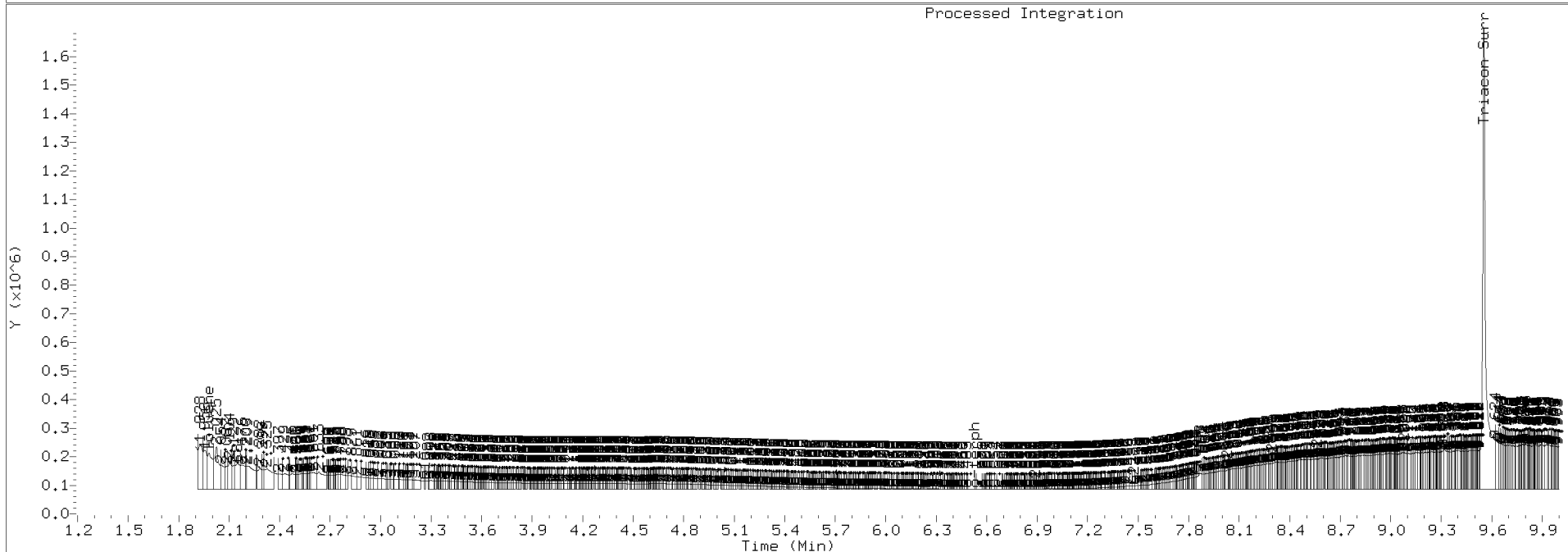
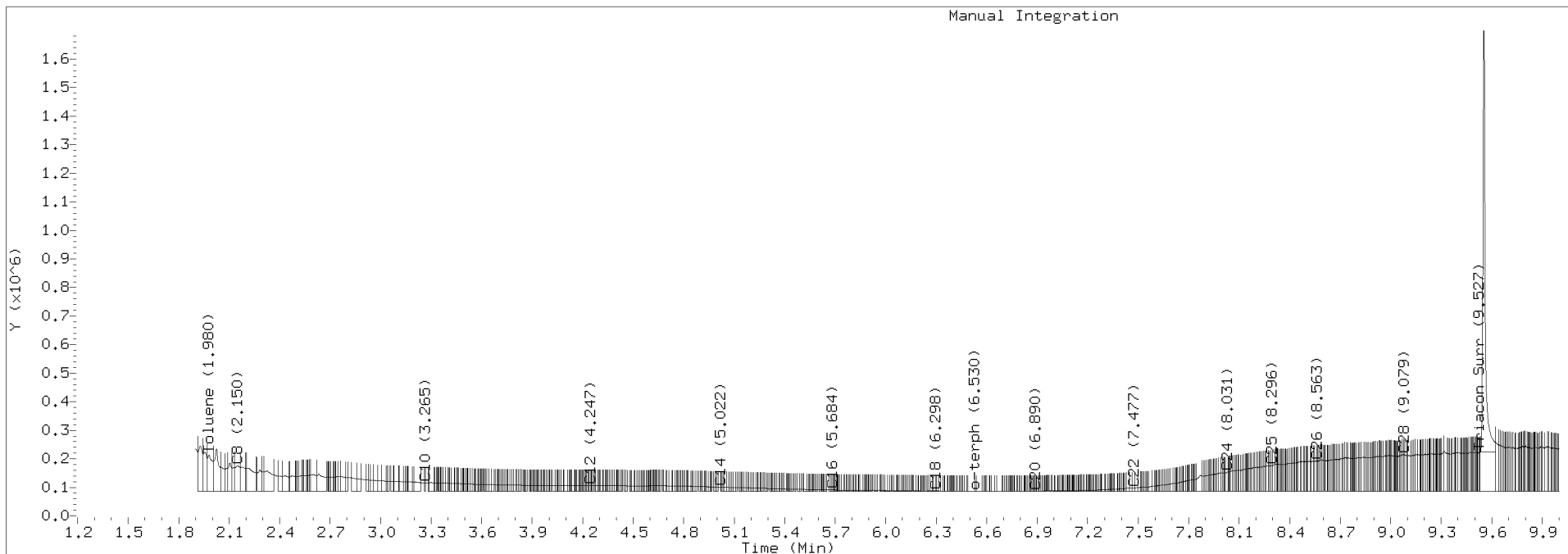
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

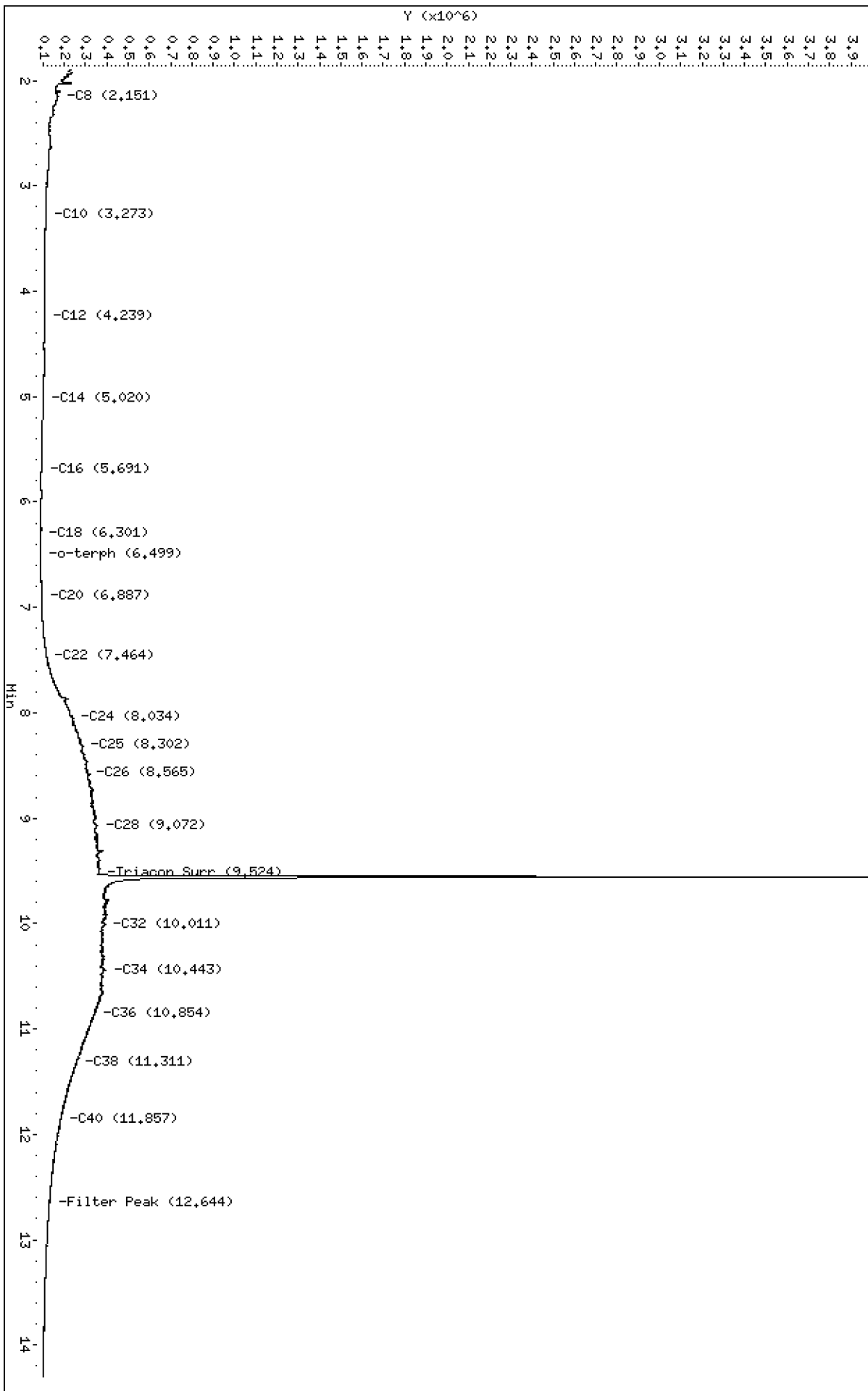
Column phase: RTX-1

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

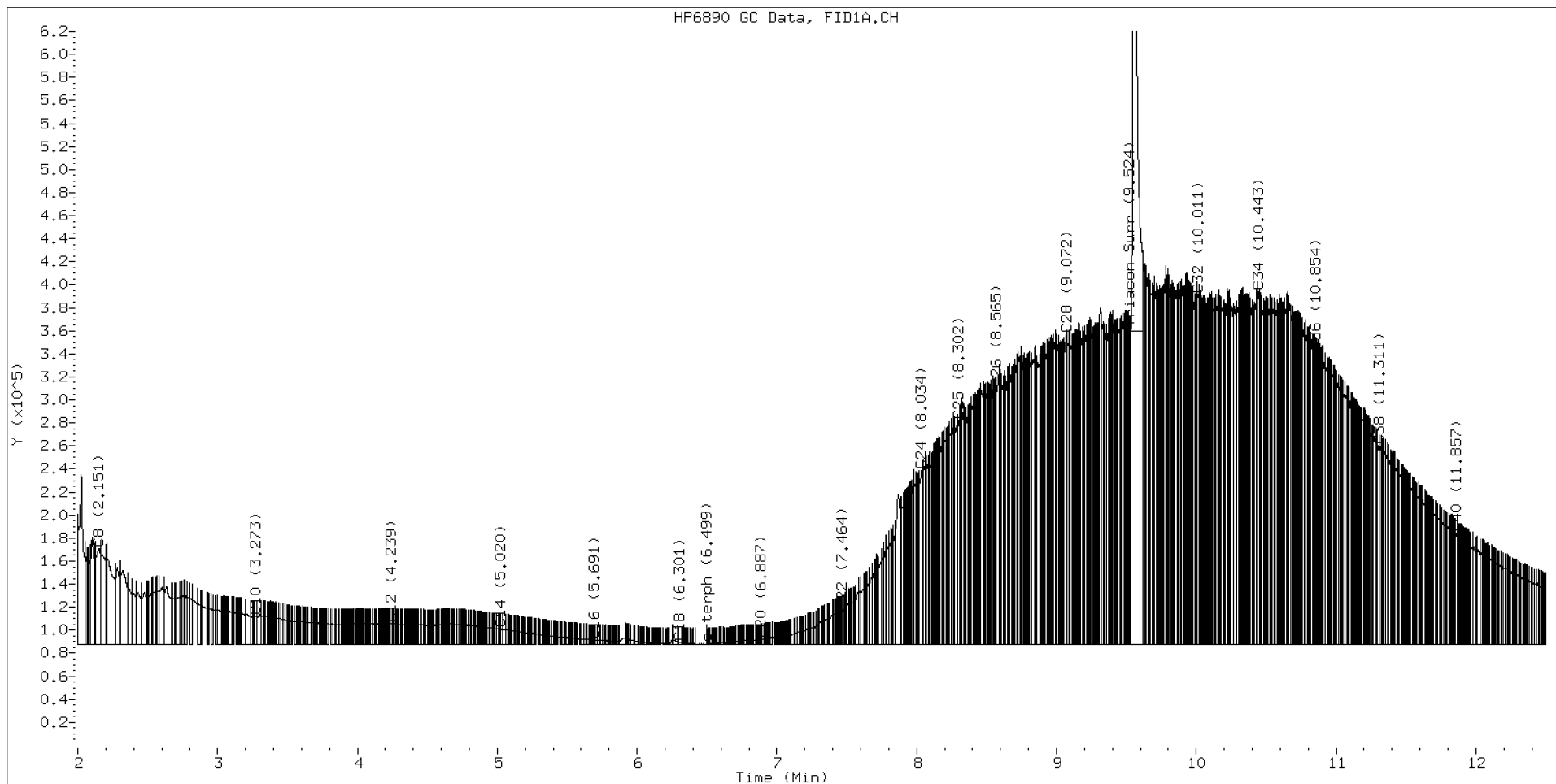
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.151	-0.005	83340	181737	WATPHD	(C12-C24)	4669475	29.3
C10	3.273	0.004	24124	29803	WATPHM	(C24-C38)	49486995	489.2
C12	4.239	-0.005	17851	9766	AK102	(C10-C25)	7430681	38.0
C14	5.020	-0.001	13143	9087	AK103	(C25-C36)	42295515	577.8
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

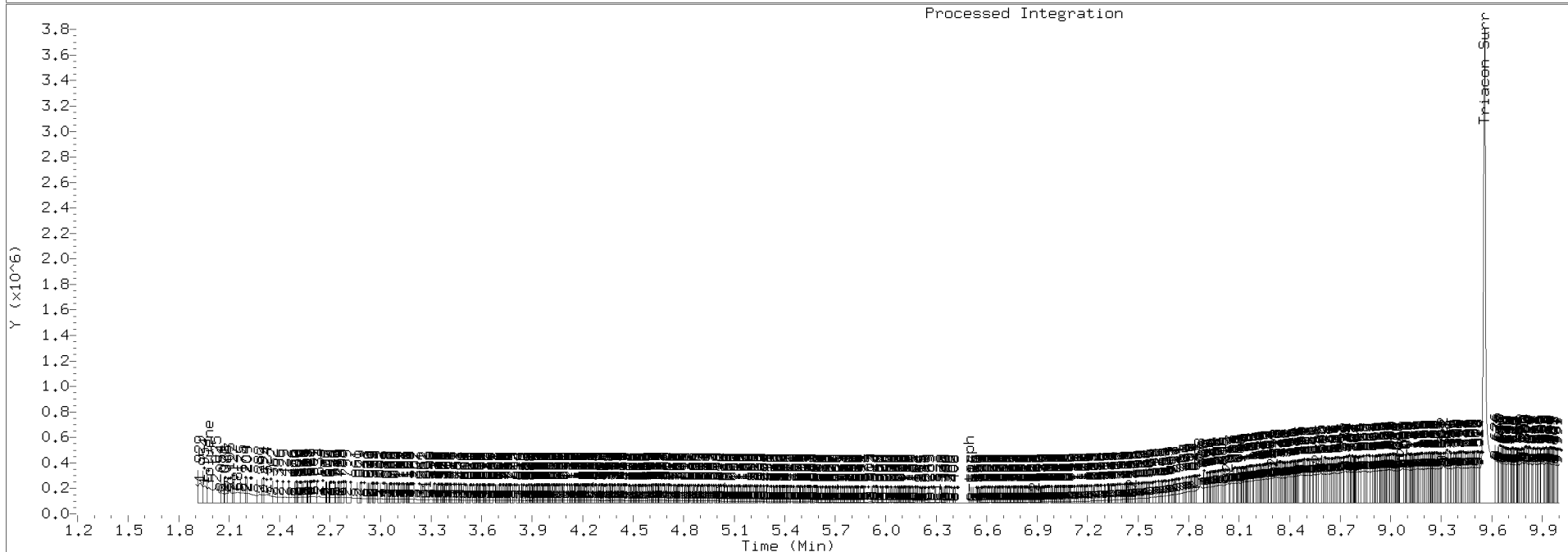
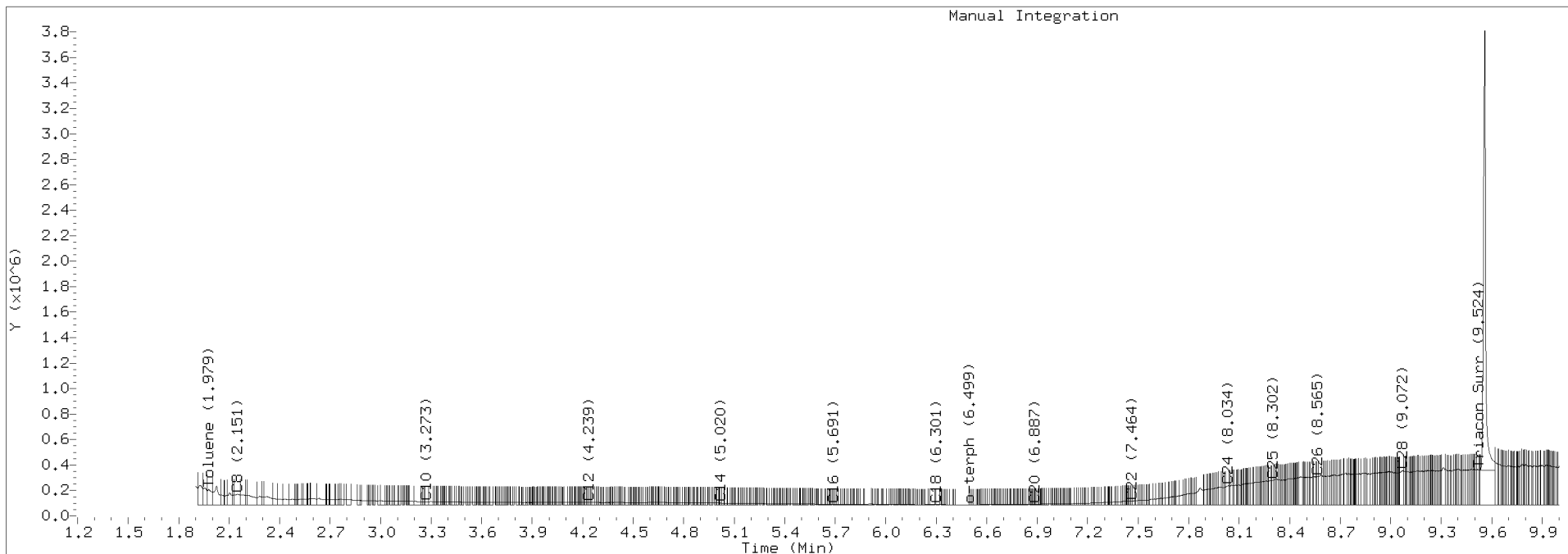
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

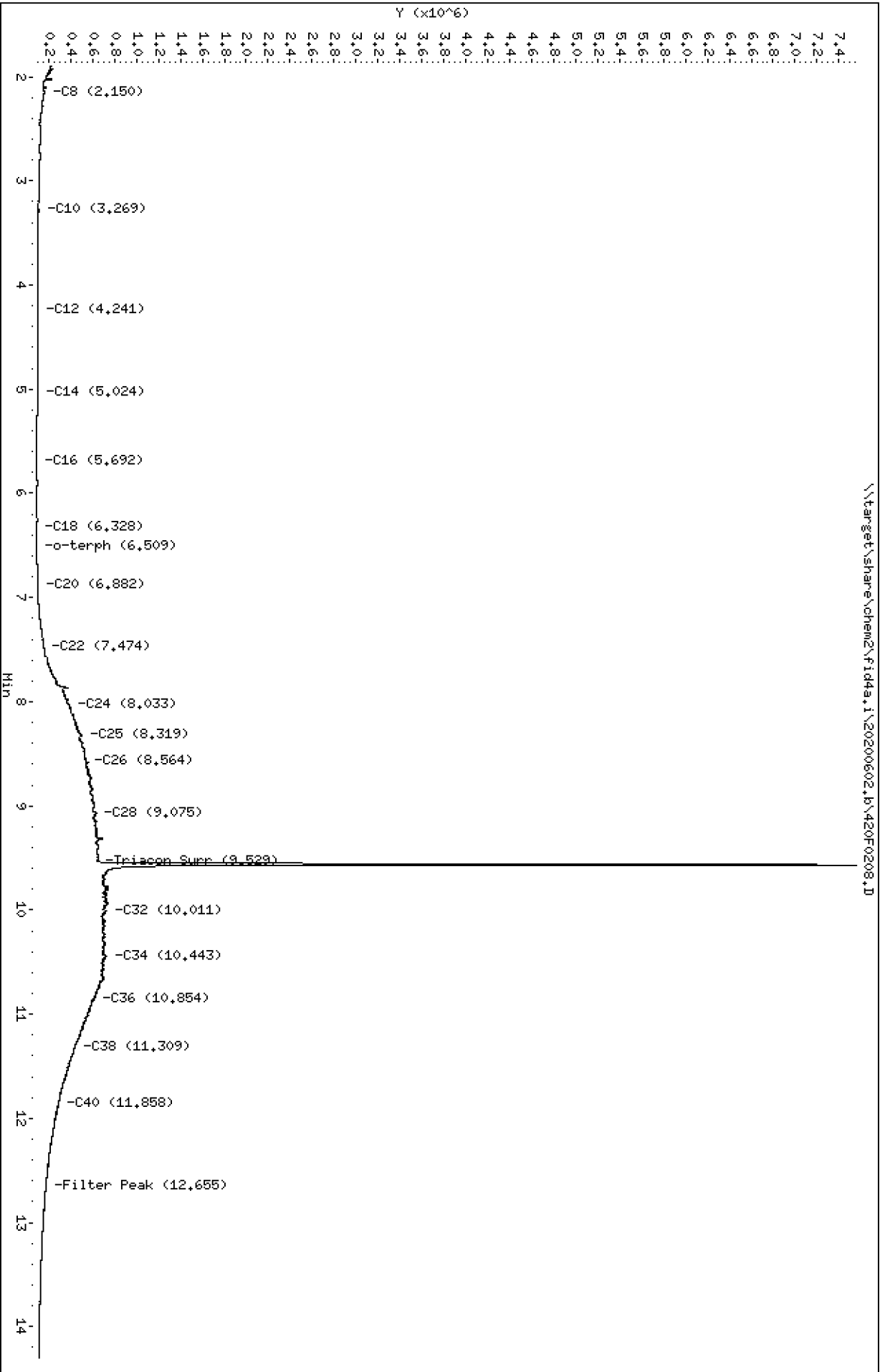
Lab ID:SIF0018-CAL3



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

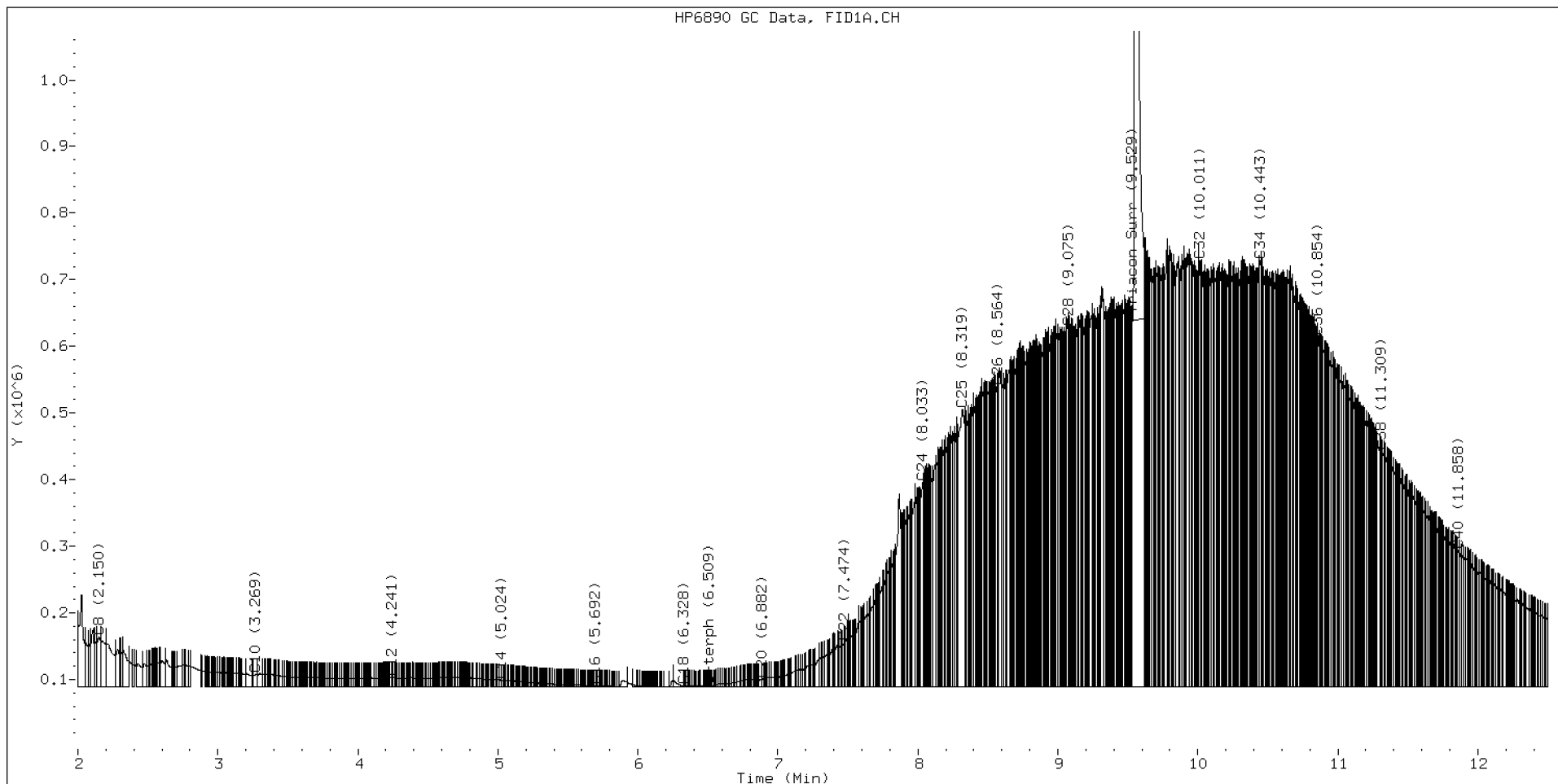
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.150	-0.006	74771	134338	WATPHD	(C12-C24)	8555448	53.7
C10	3.269	0.001	18936	30862	WATPHM	(C24-C38)	101521093	1003.5
C12	4.241	-0.003	13823	8198	AK102	(C10-C25)	12841862	65.7
C14	5.024	0.002	10299	9083	AK103	(C25-C36)	86804393	1185.7
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

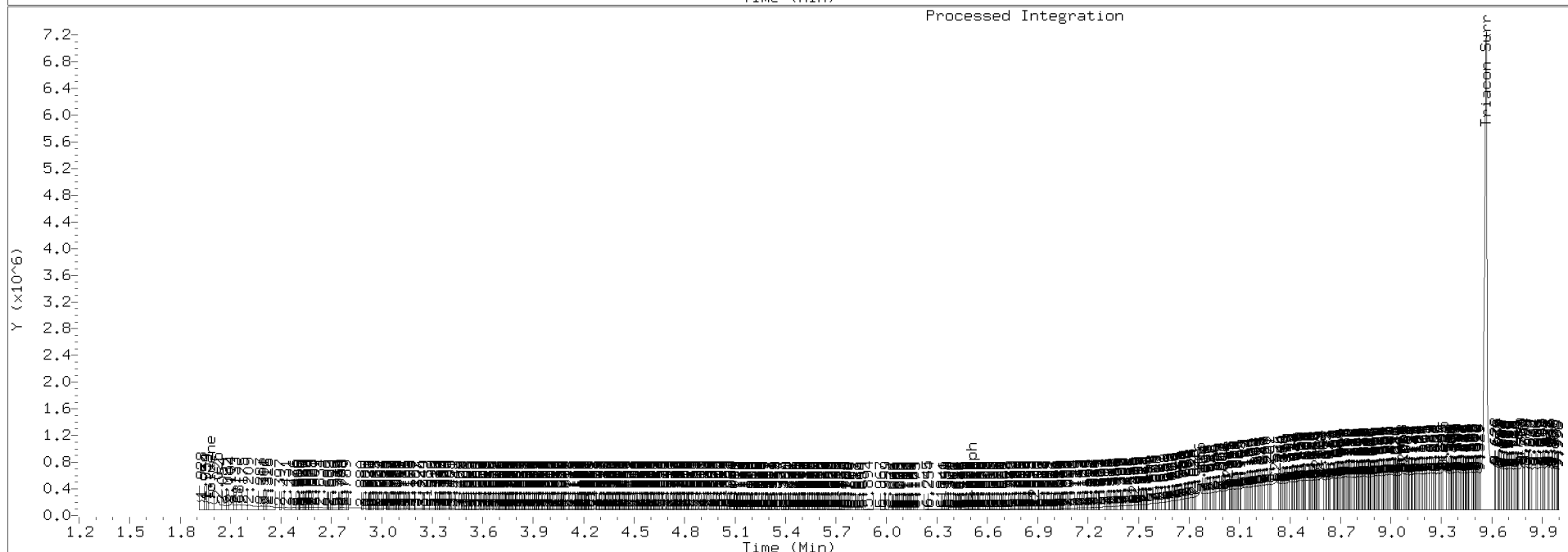
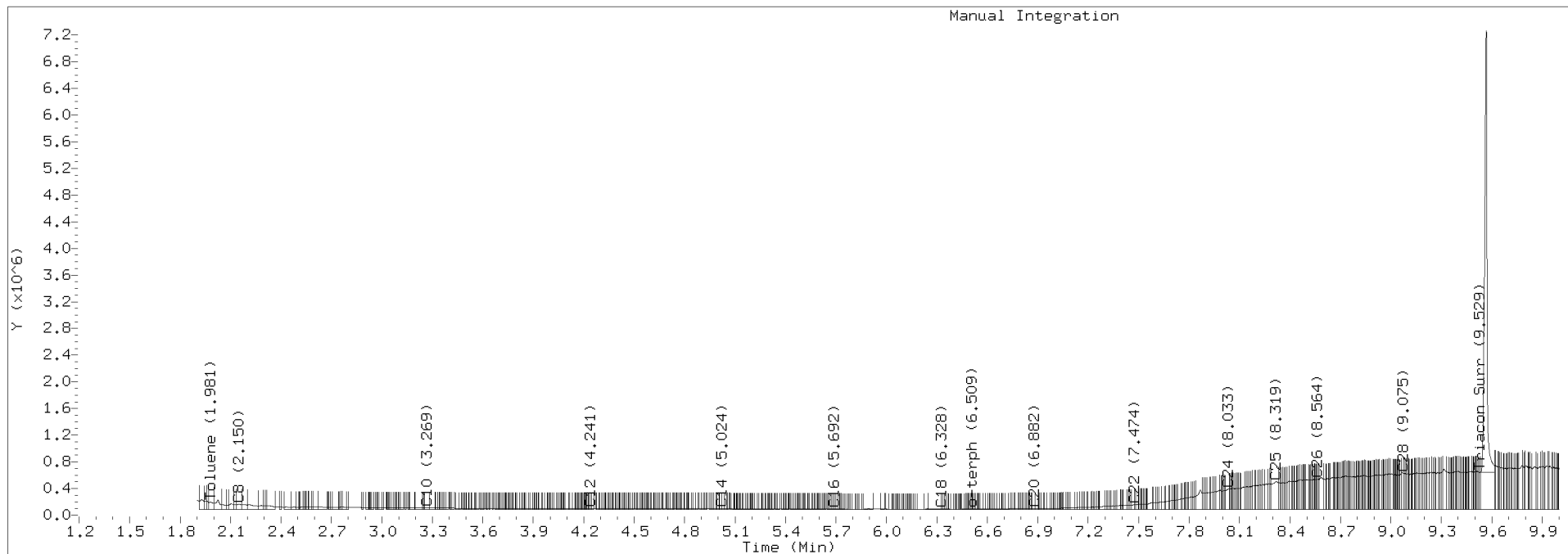
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

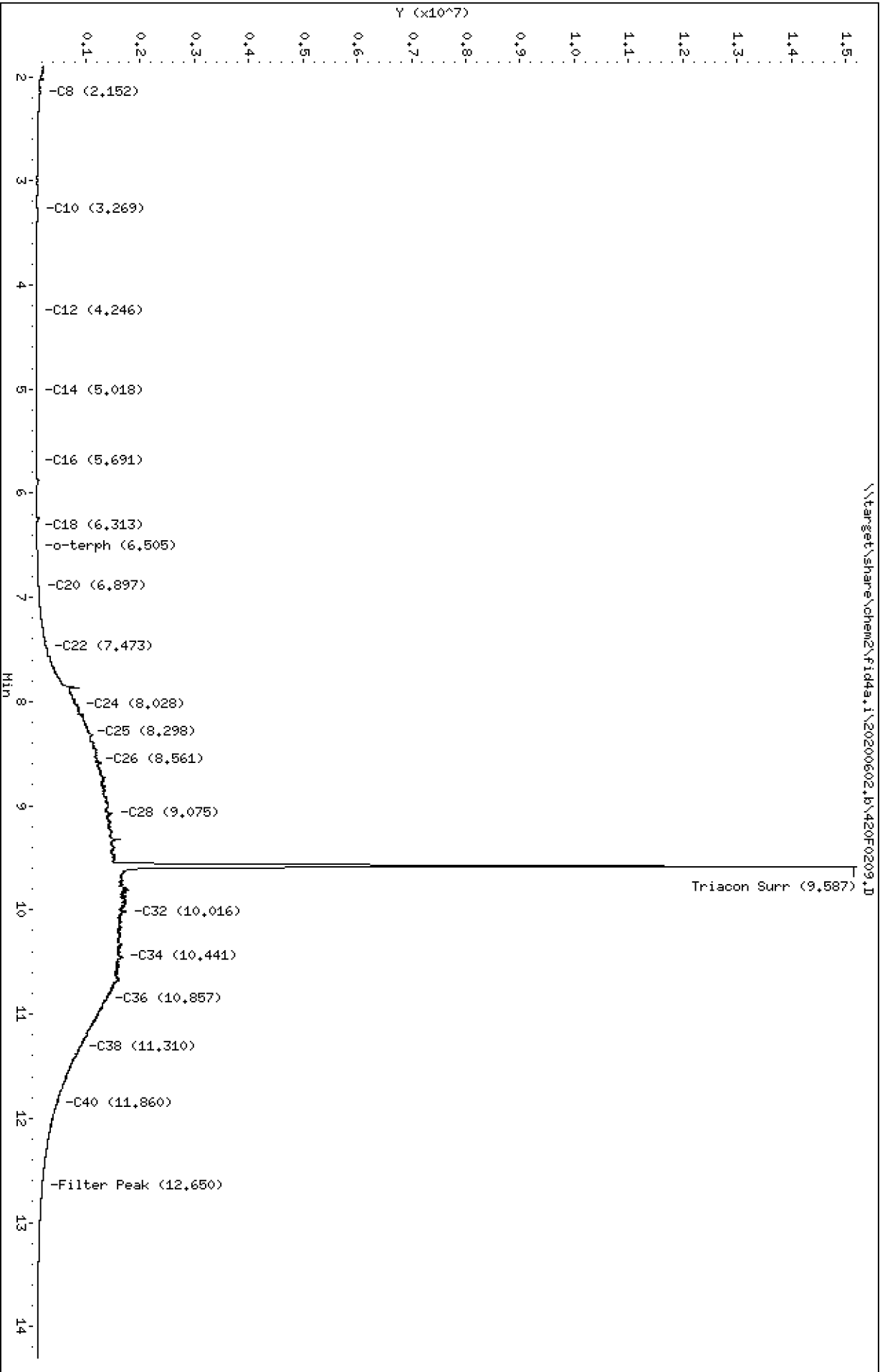
Lab ID:SIF0018-CAL4



Data File: \\target\share\chem2\fid4a,1\20200602_b\420F0209.D
Date: 02-JUN-2020 10:16
Client ID:
Sample Info: SIF0018-CAL5

Column phase: RTX-1

Instrument: fid4a,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

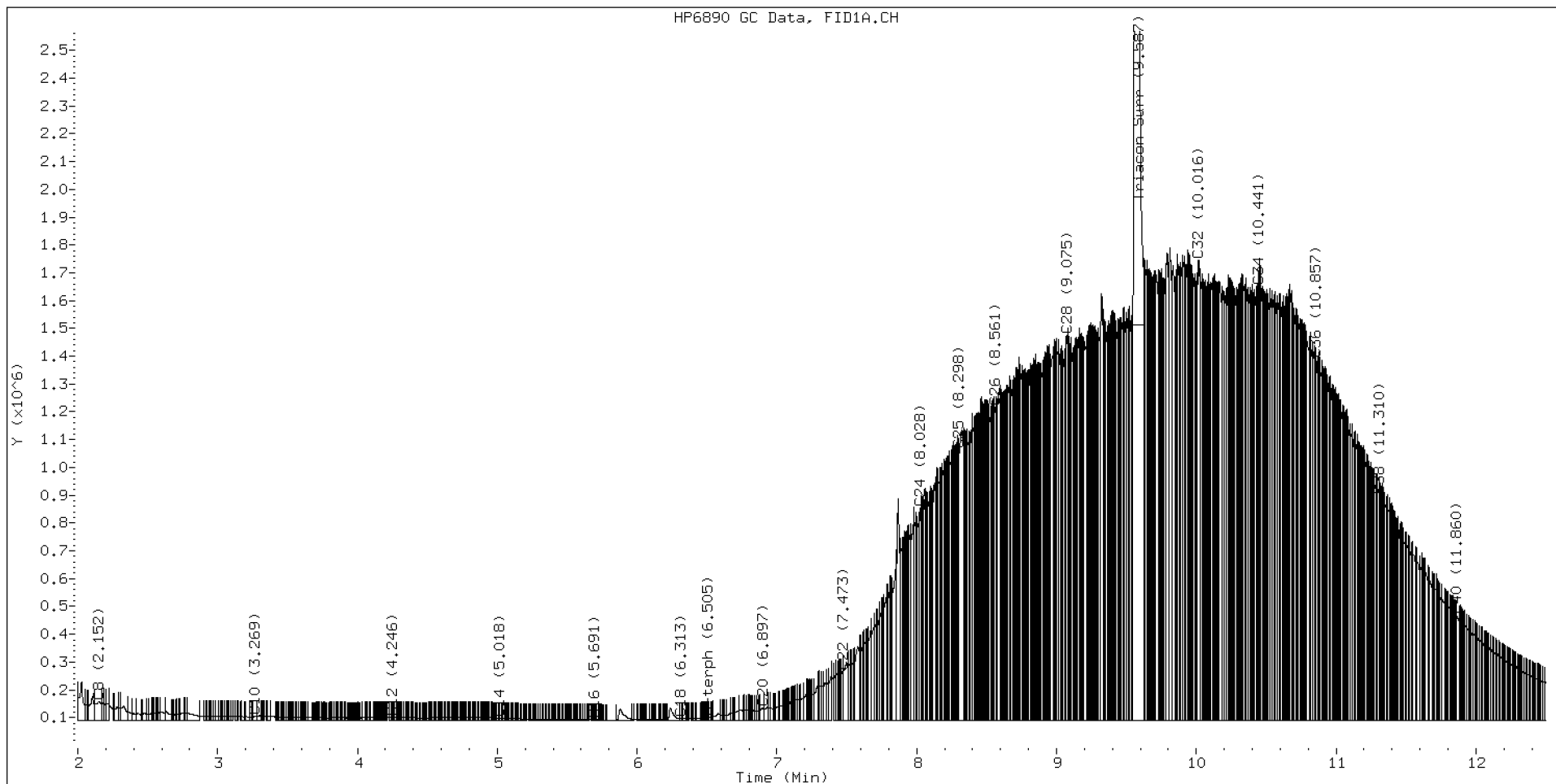
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.004	67731	187221	WATPHD	(C12-C24)	20822485	130.7
C10	3.269	0.000	15304	22992	WATPHM	(C24-C38)	252817754	2499.0
C12	4.246	0.002	8746	2596	AK102	(C10-C25)	30167989	154.3
C14	5.018	-0.004	7386	6763	AK103	(C25-C36)	216864710	2962.4
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

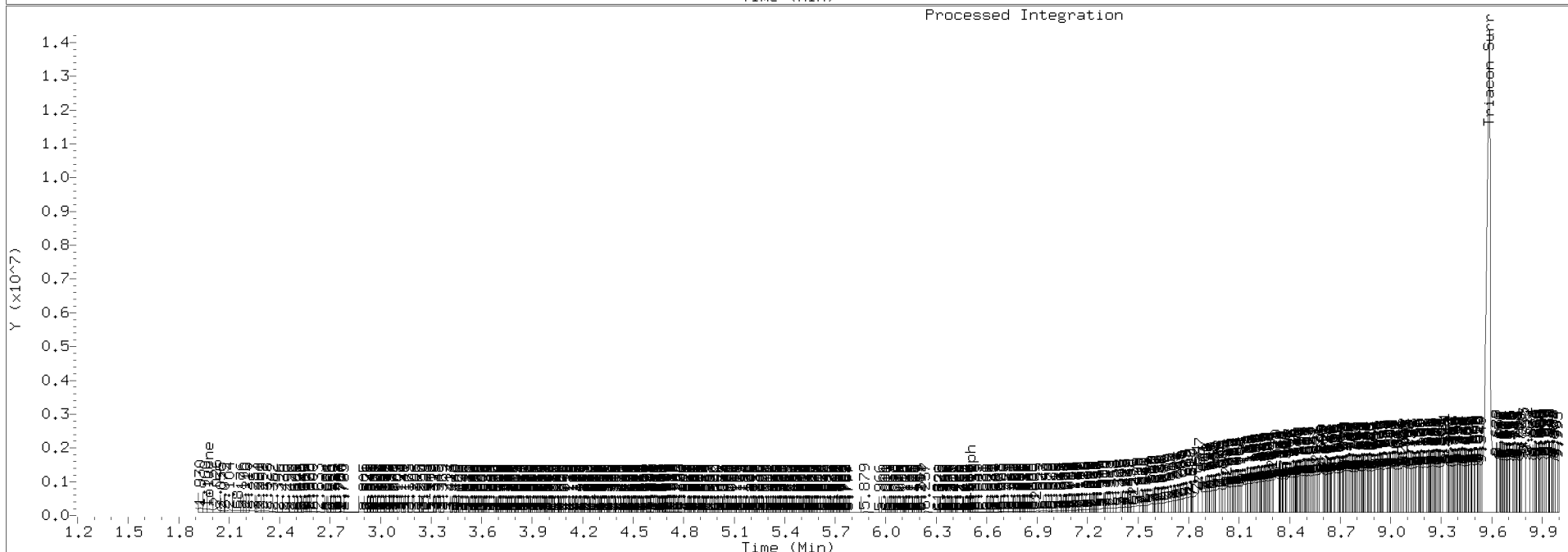
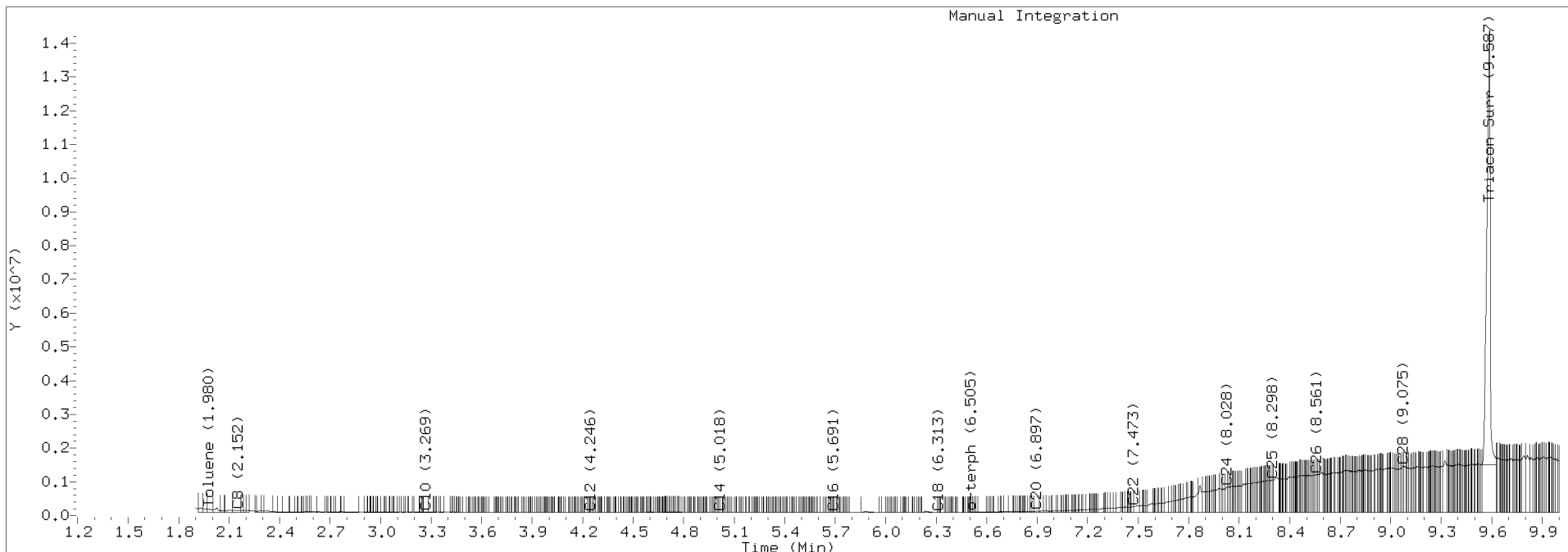
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

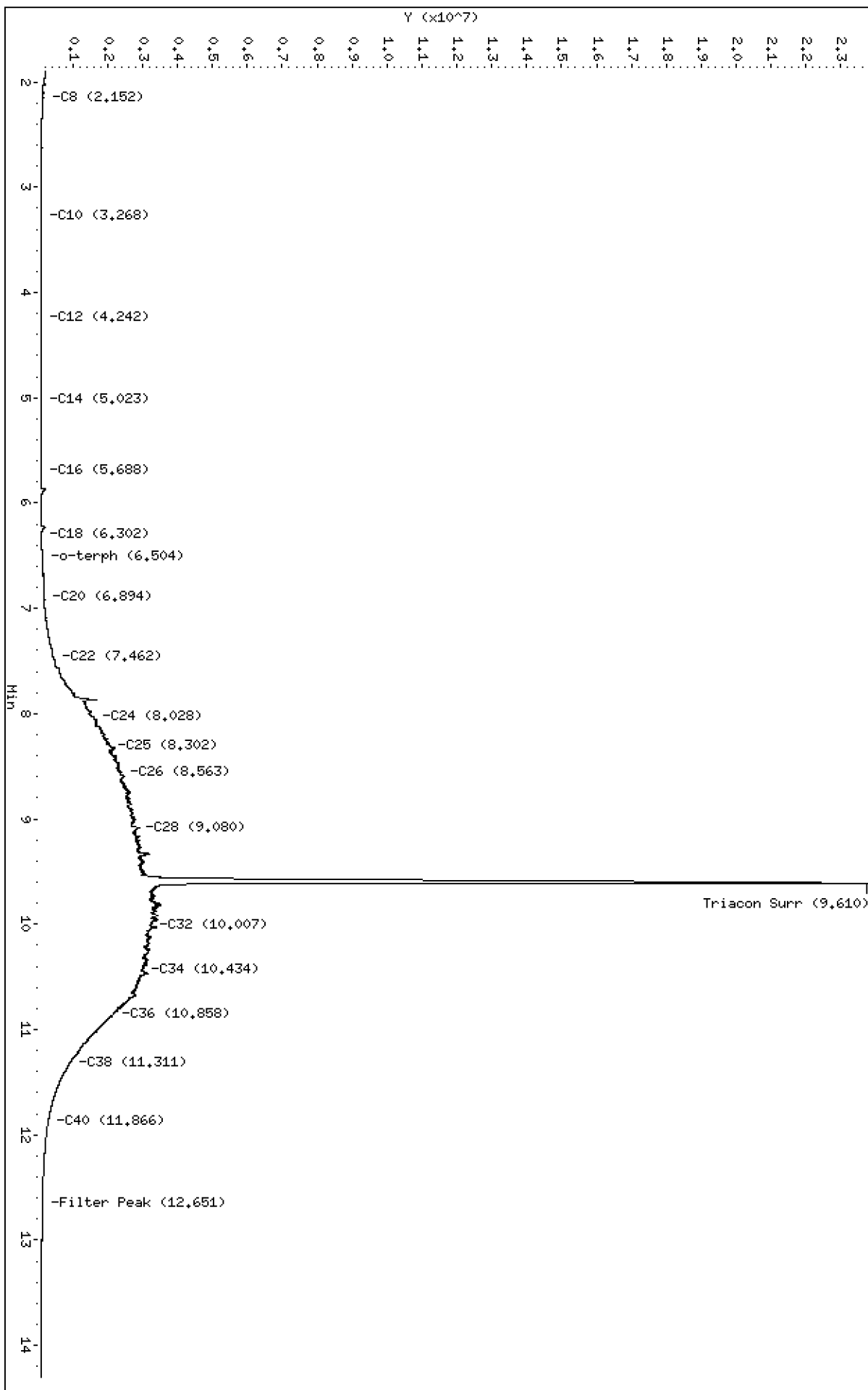
Column phase: RTX-1

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

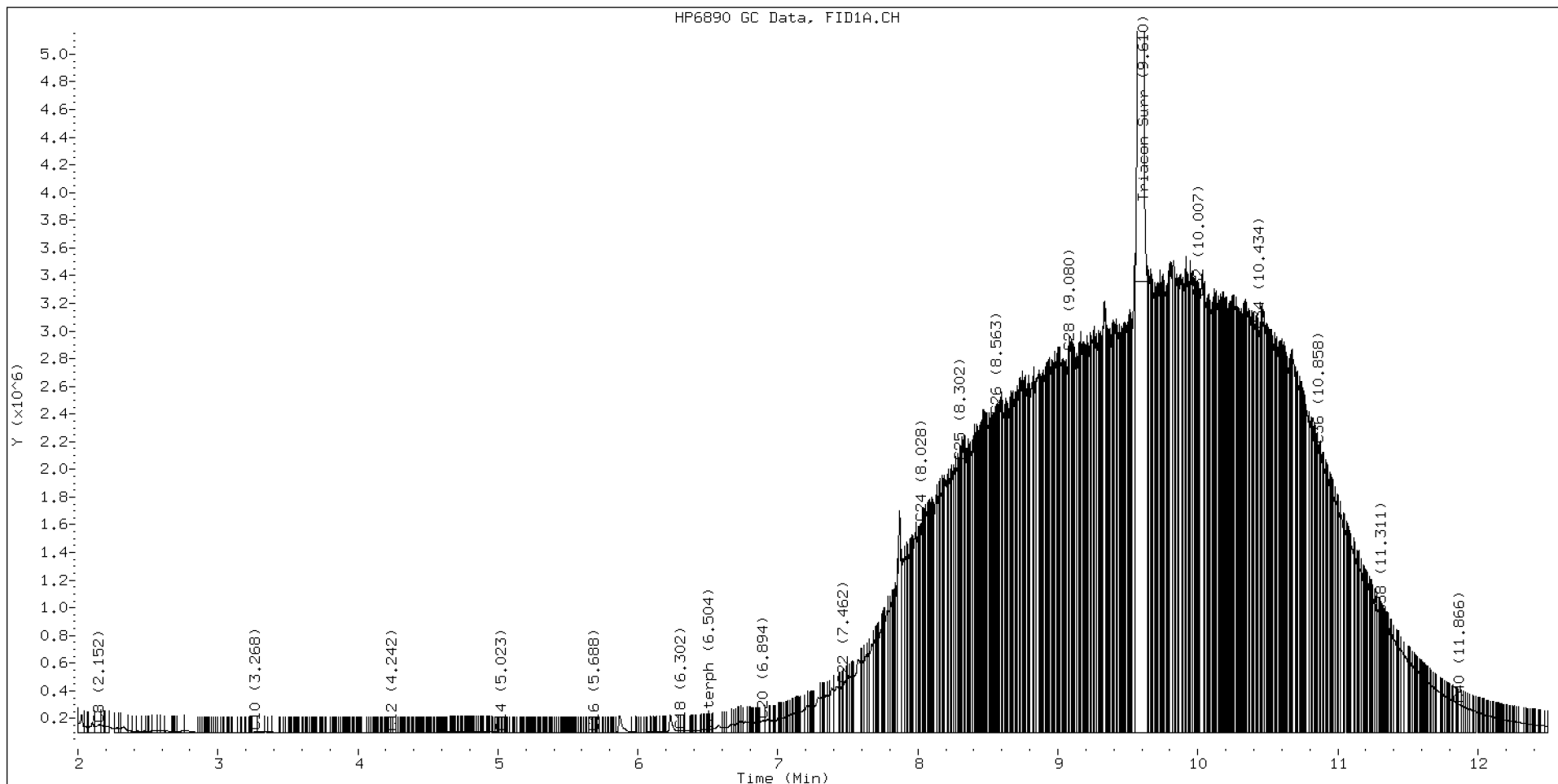
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.152	-0.004	59759	152130	WATPHD	(C12-C24)	42097067	264.2
C10	3.268	-0.000	10906	13309	WATPHM	(C24-C38)	483979490	4784.0
C12	4.242	-0.002	3837	2144	AK102	(C10-C25)	60128324	307.6
C14	5.023	0.001	5263	2575	AK103	(C25-C36)	432878704	5913.1
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

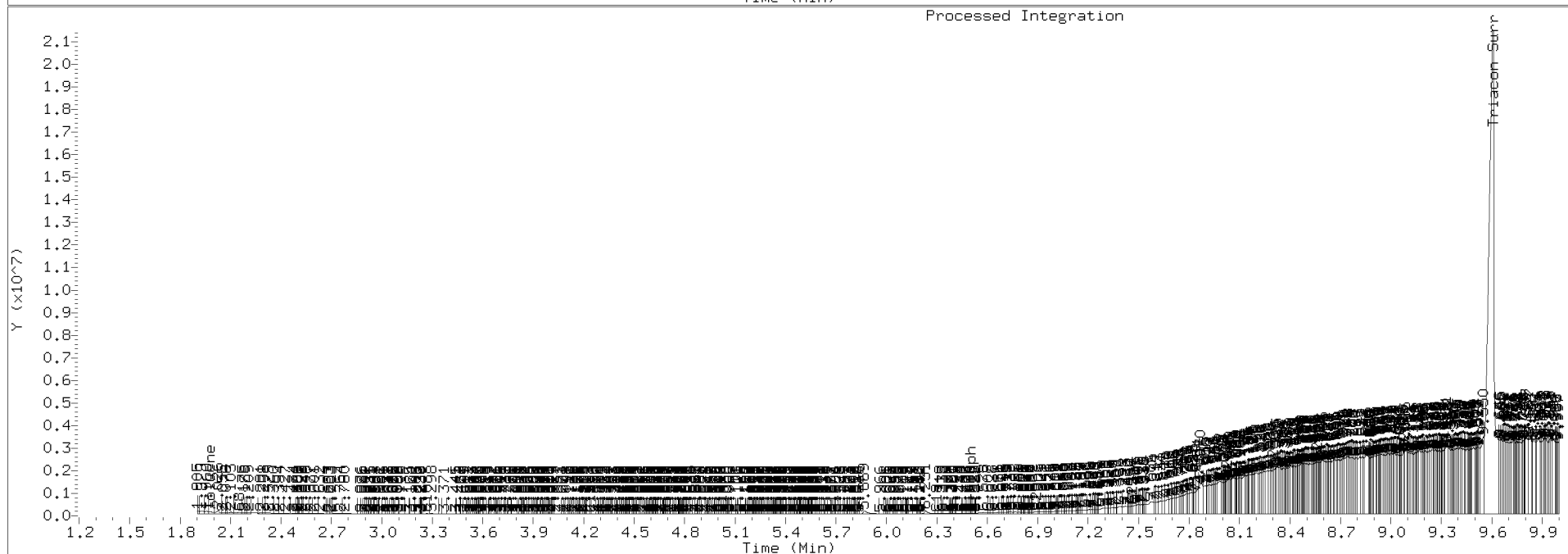
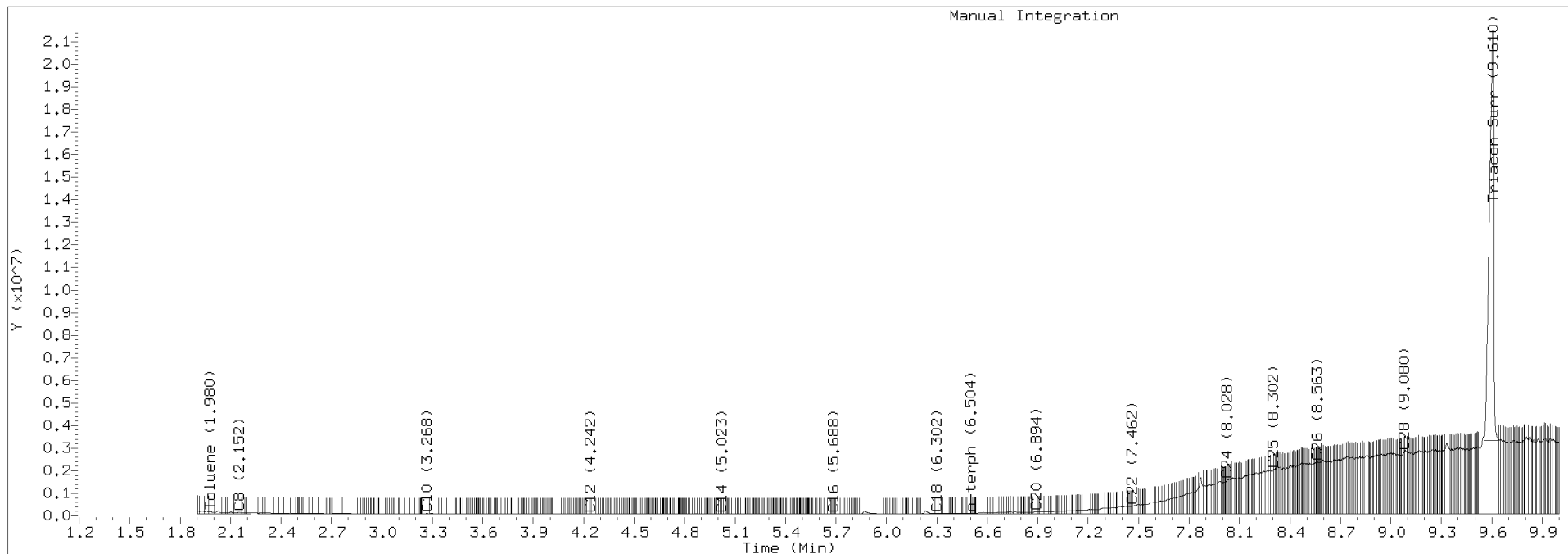
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

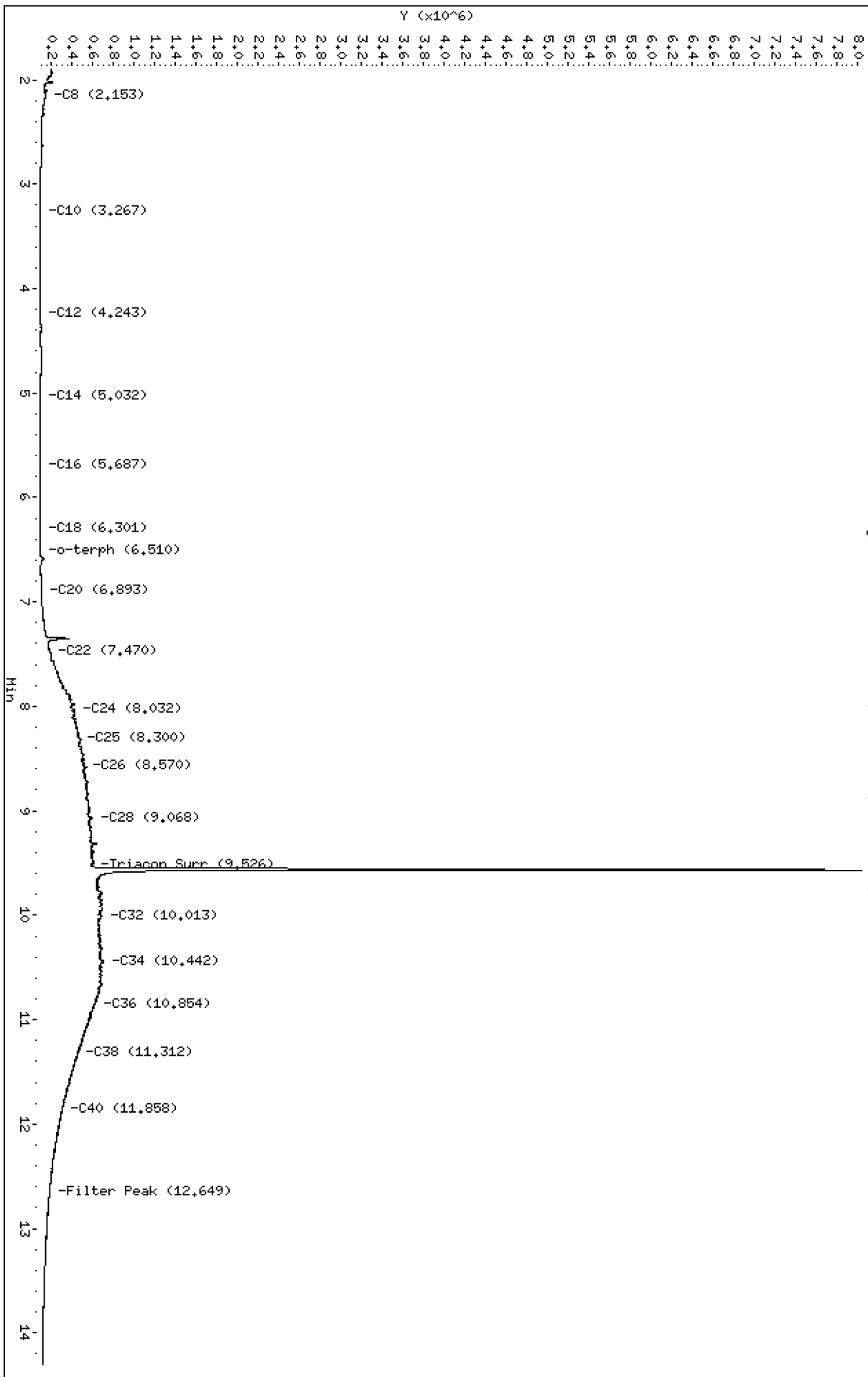
Column phase: RTX-1

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

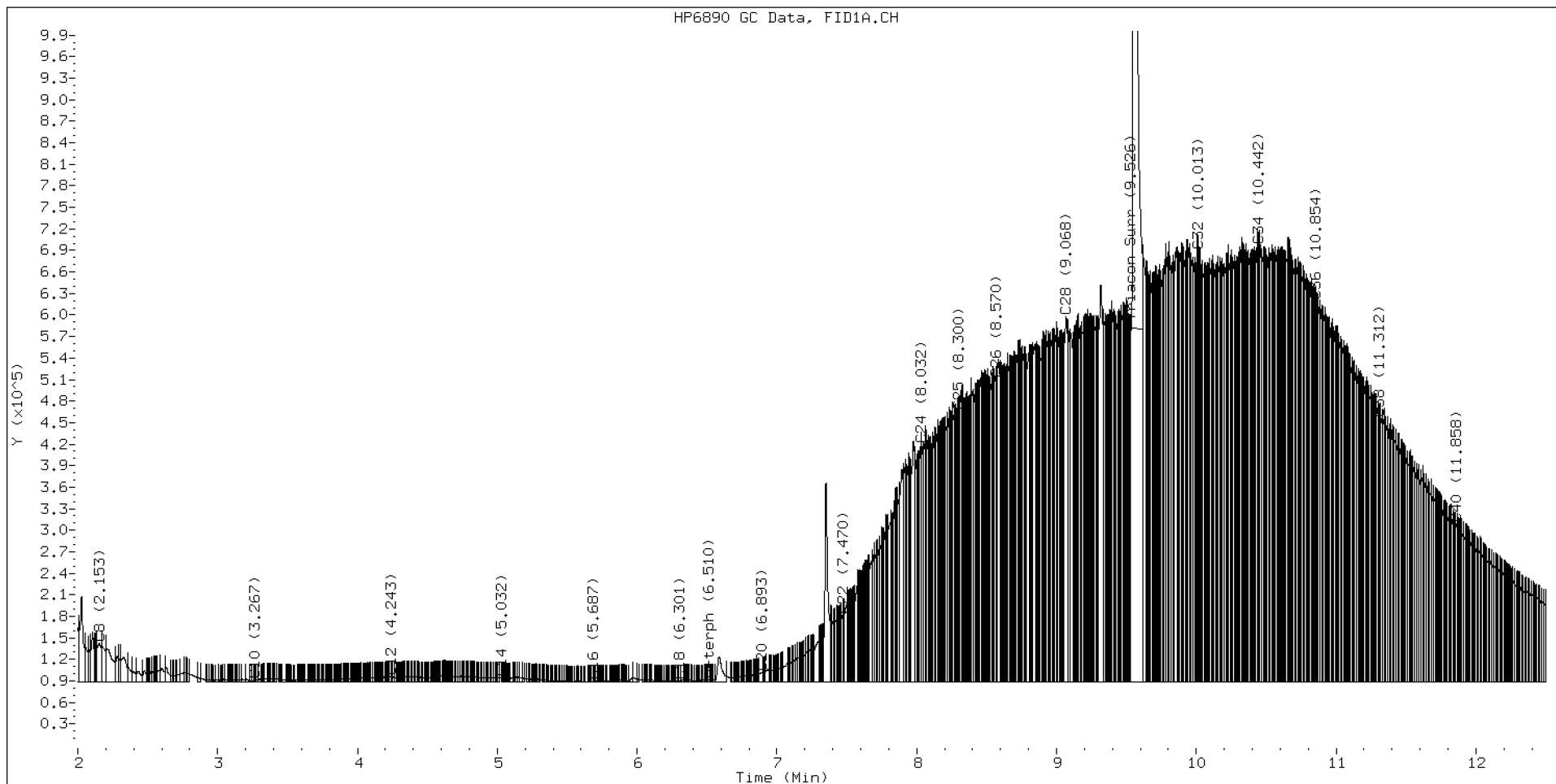
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.153	-0.003	53793	112352	WATPHD	(C12-C24)	10130617	63.6
C10	3.267	-0.001	3184	1798	WATPHM	(C24-C38)	96339891	952.3
C12	4.243	-0.001	6309	3433	AK102	(C10-C25)	13696411	70.1
C14	5.032	0.010	5041	1965	AK103	(C25-C36)	81704578	1116.1
C16	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

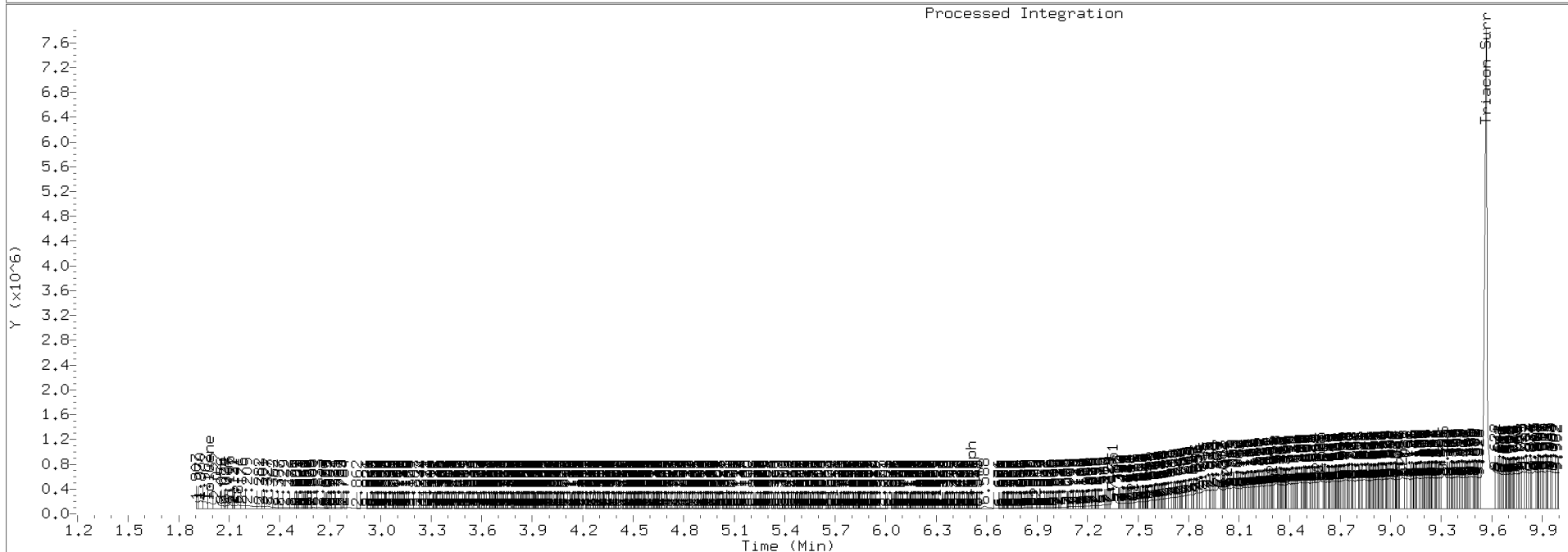
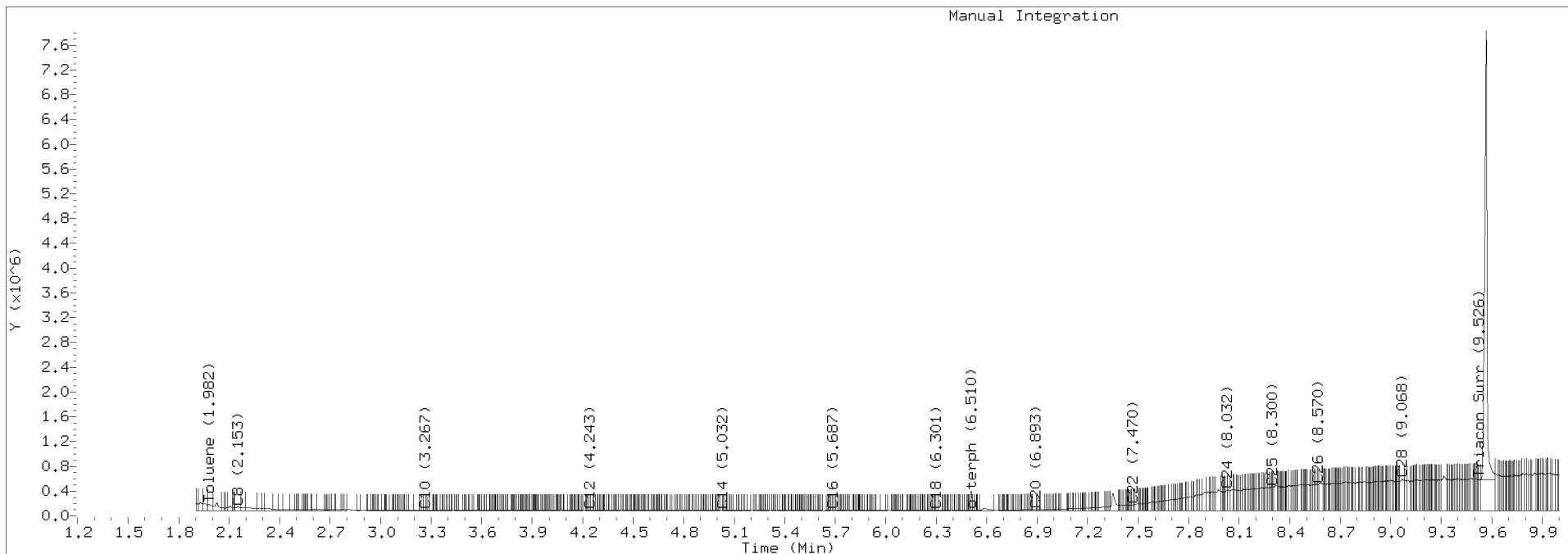
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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





ANALYSIS SEQUENCE

SIH0092

Instrument: FID4
Calibration ID: DA00022

Printed: 8/10/2020 2:51:30PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIH0092-IBL1	QC		1		I006239			
SIH0092-IBL2	QC		2		I006241			
SIH0092-CAL1	QC		3		I006988			
SIH0092-CAL2	QC		4		I006987			
SIH0092-CAL3	QC		5		I006986			
SIH0092-CAL4	QC		6		I006985			
SIH0092-CAL5	QC		7		I006984			
SIH0092-CAL6	QC		8		I006965			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20200810.b

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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

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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

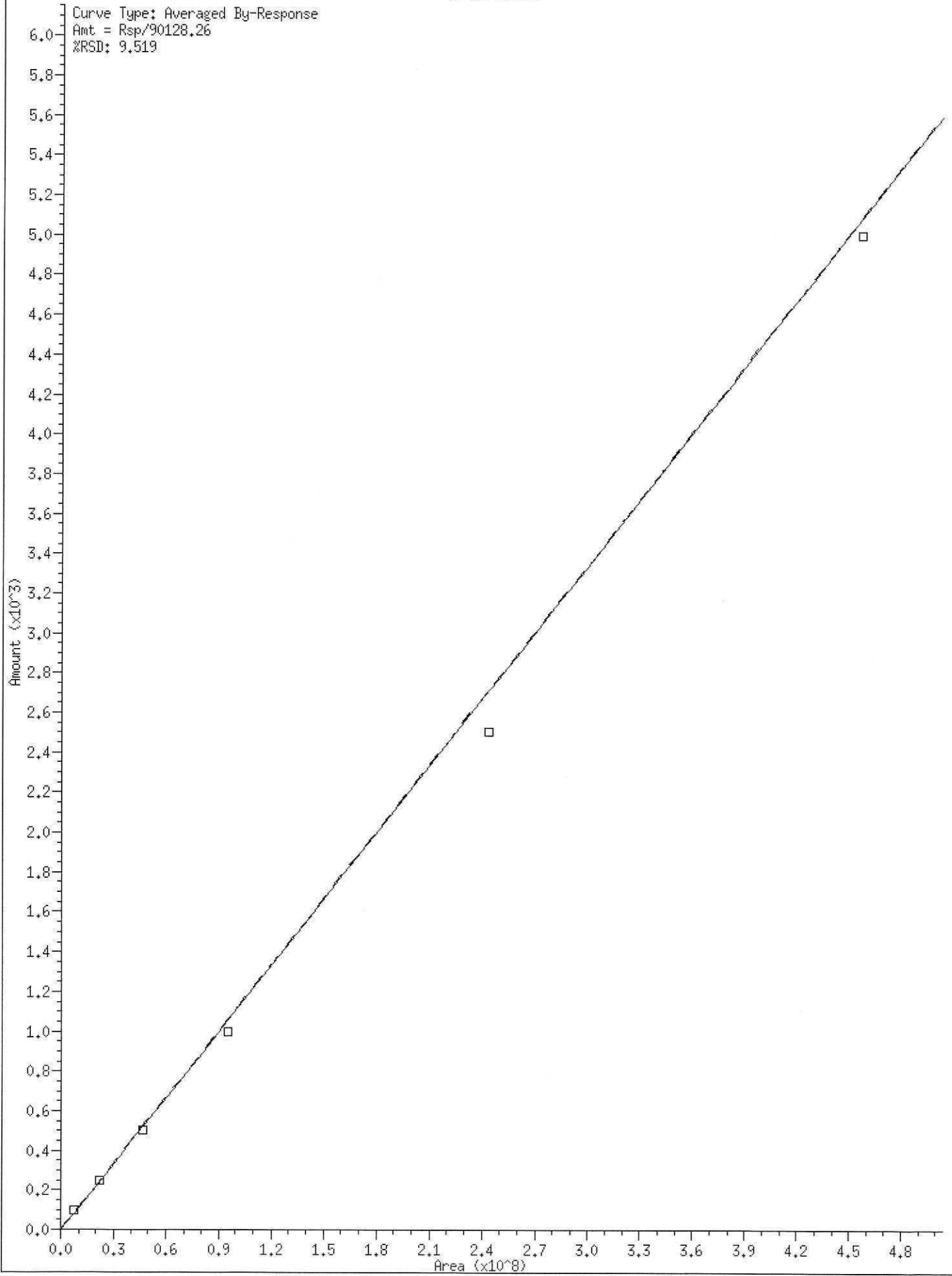
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0811	420H1001.D	RINSE		1	NO MANUAL INTEGRATION
0830	420H1002.D	RINSE		1	NO MANUAL INTEGRATION
0850	420H1003.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0910	420H1004.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
0930	420H1005.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0949	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
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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
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Curve Type: Averaged By-Response
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%RSD: 9.519



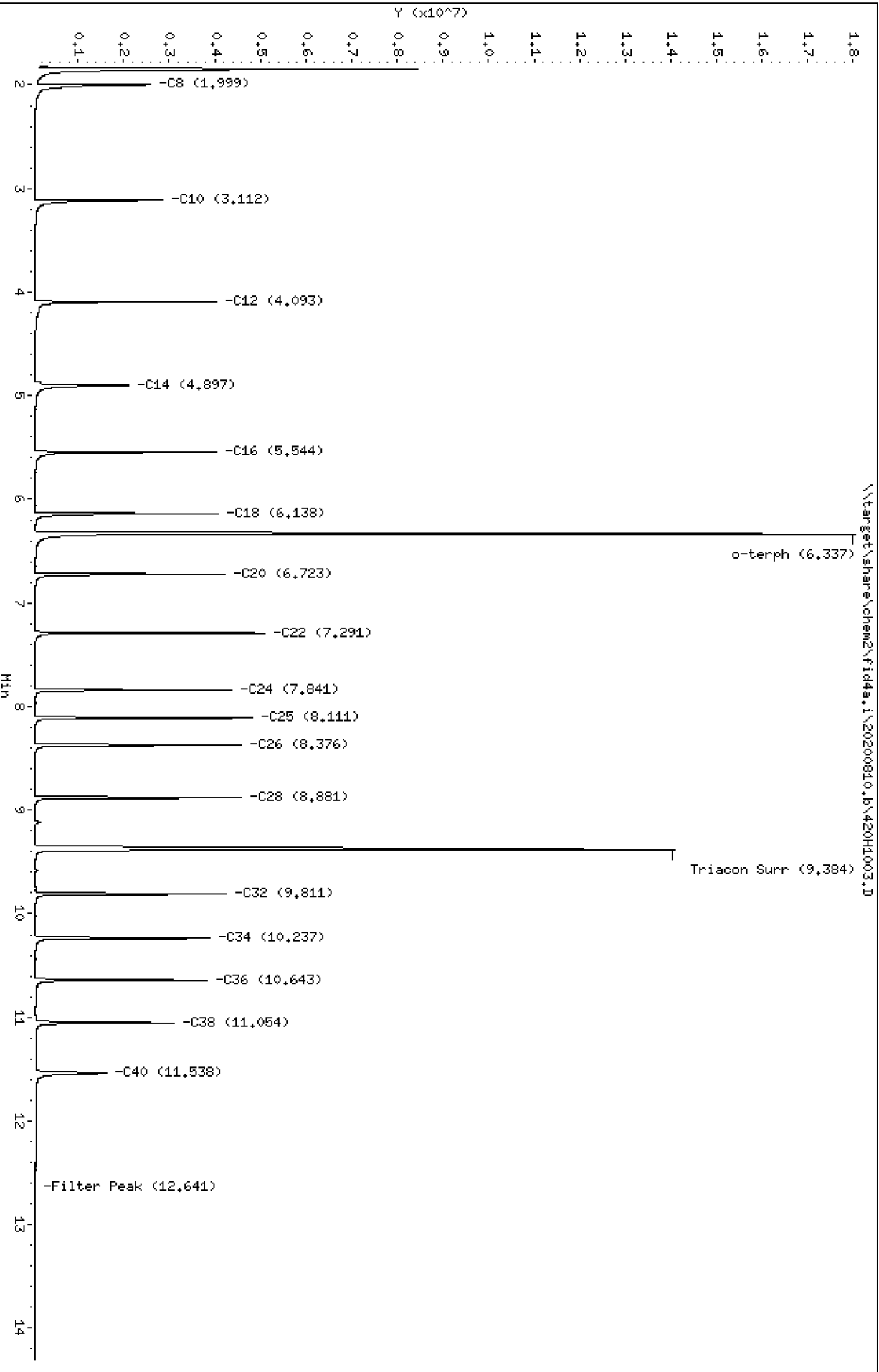
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Date: 10-AUG-2020 08:50
Client ID:
Sample Info: SEQ-IBL1

Instrument: fid4a,1

Page 1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 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

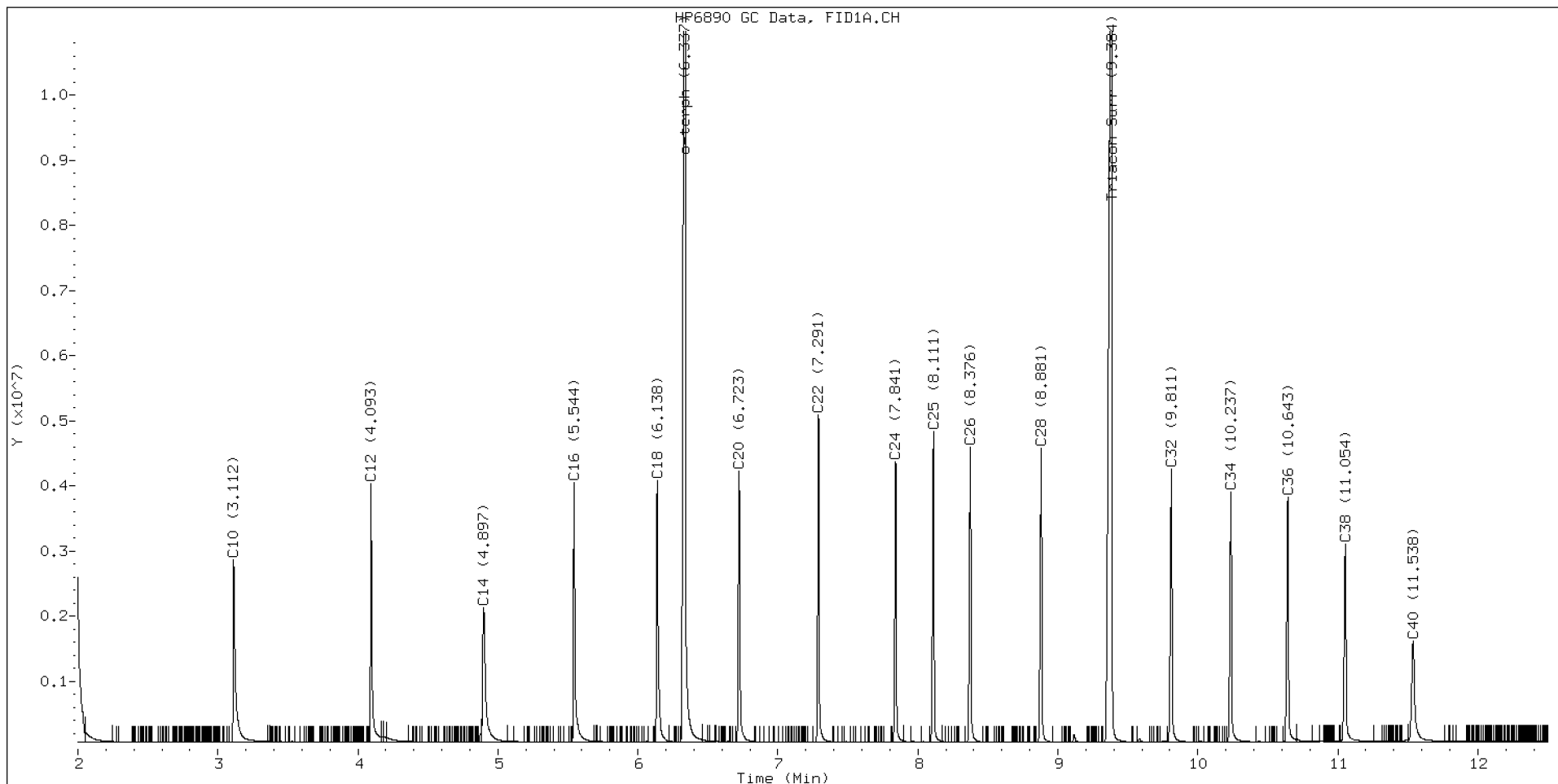
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.999	0.000	2540721	3264726	WATPHD	(C12-C24)	22306304	140.0
C10	3.112	0.000	2810194	3442755	WATPHM	(C24-C38)	26298631	260.0
C12	4.093	0.000	3978222	2976186	AK102	(C10-C25)	29087658	148.8
C14	4.897	0.000	2063035	3357028	AK103	(C25-C36)	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

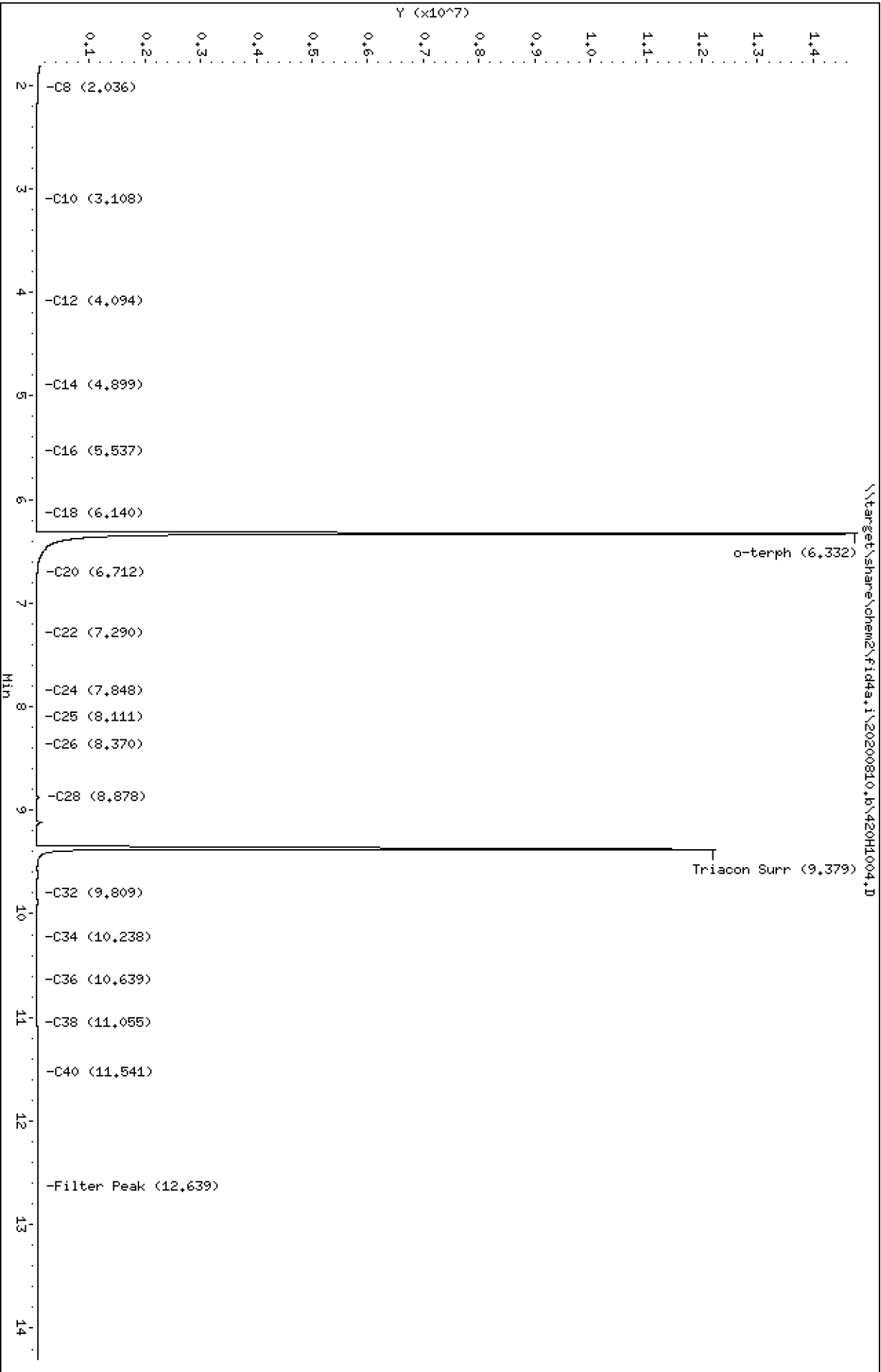
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

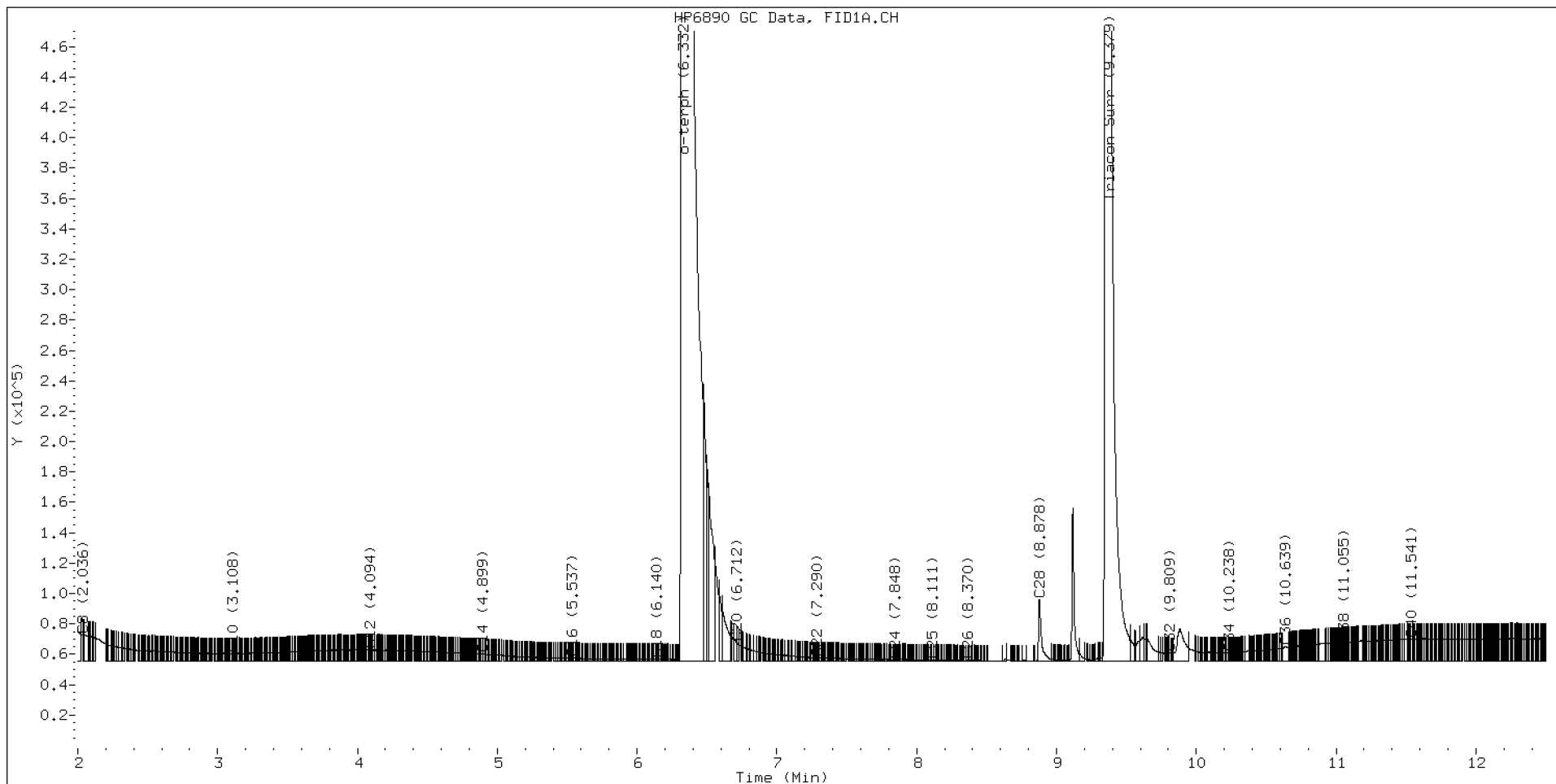
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.036	0.037	17008	10175	WATPHD	(C12-C24)	1331558	8.4
C10	3.108	-0.005	5021	2233	WATPHM	(C24-C38)	996053	9.8
C12	4.094	0.001	7426	3680	AK102	(C10-C25)	1724501	8.8
C14	4.899	0.001	4565	910	AK103	(C25-C36)	714743	9.8
C16	5.537	-0.007	2052	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



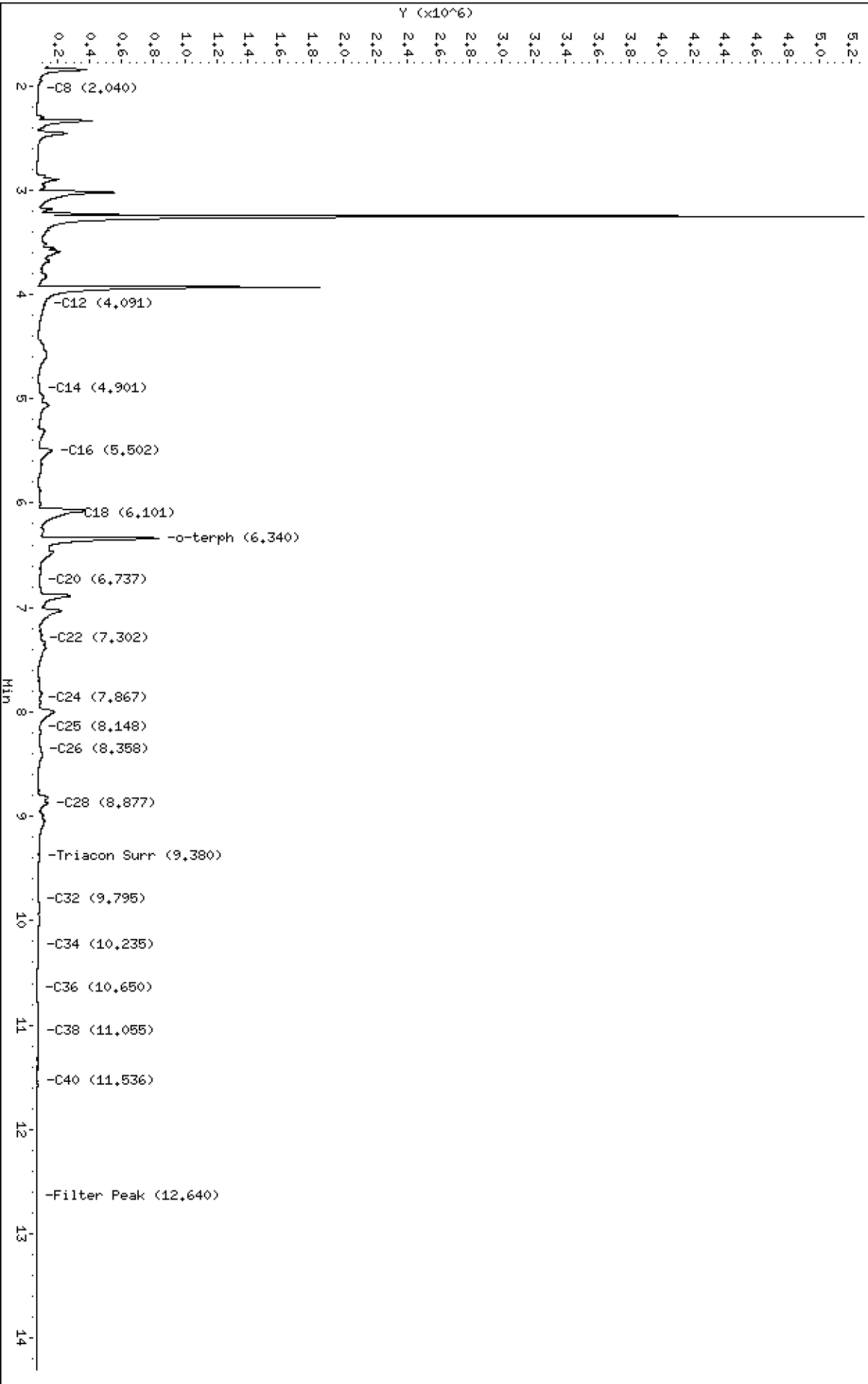
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Date: 10-AUG-2020 11:44
Client ID:
Sample Info: SEQ-CALL

Instrument: fid4a,1

Column phase: RTX-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

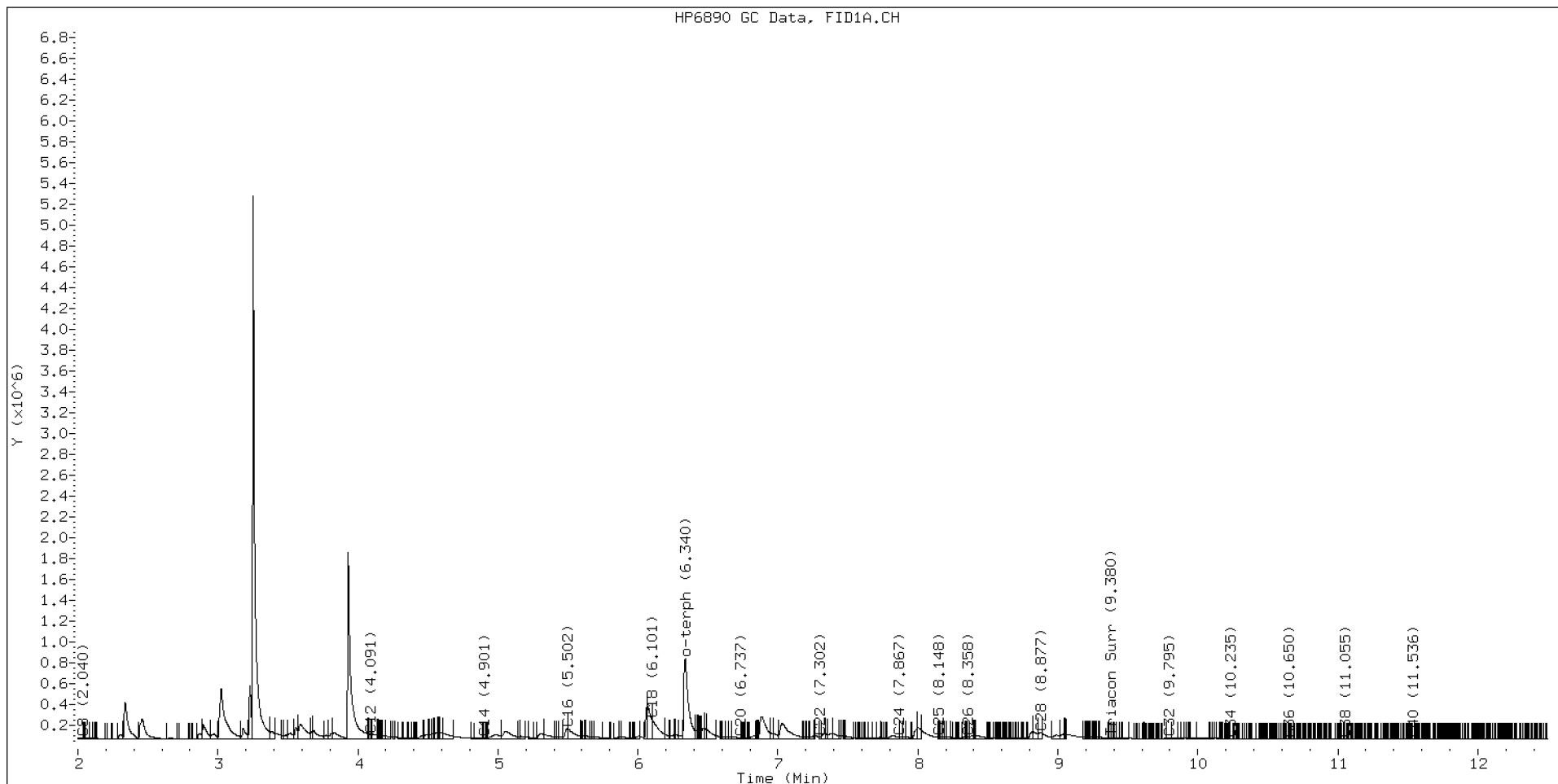
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.040	0.041	9503	2838	WATPHD	(C12-C24)	8080791	50.7
C10	----				WATPHM	(C24-C38)	2579077	25.5
C12	4.091	-0.003	48194	23669	AK102	(C10-C25)	19525938	99.9
C14	4.901	0.004	17148	14774	AK103	(C25-C36)	2056688	28.1
C16	5.502	-0.042	98467	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

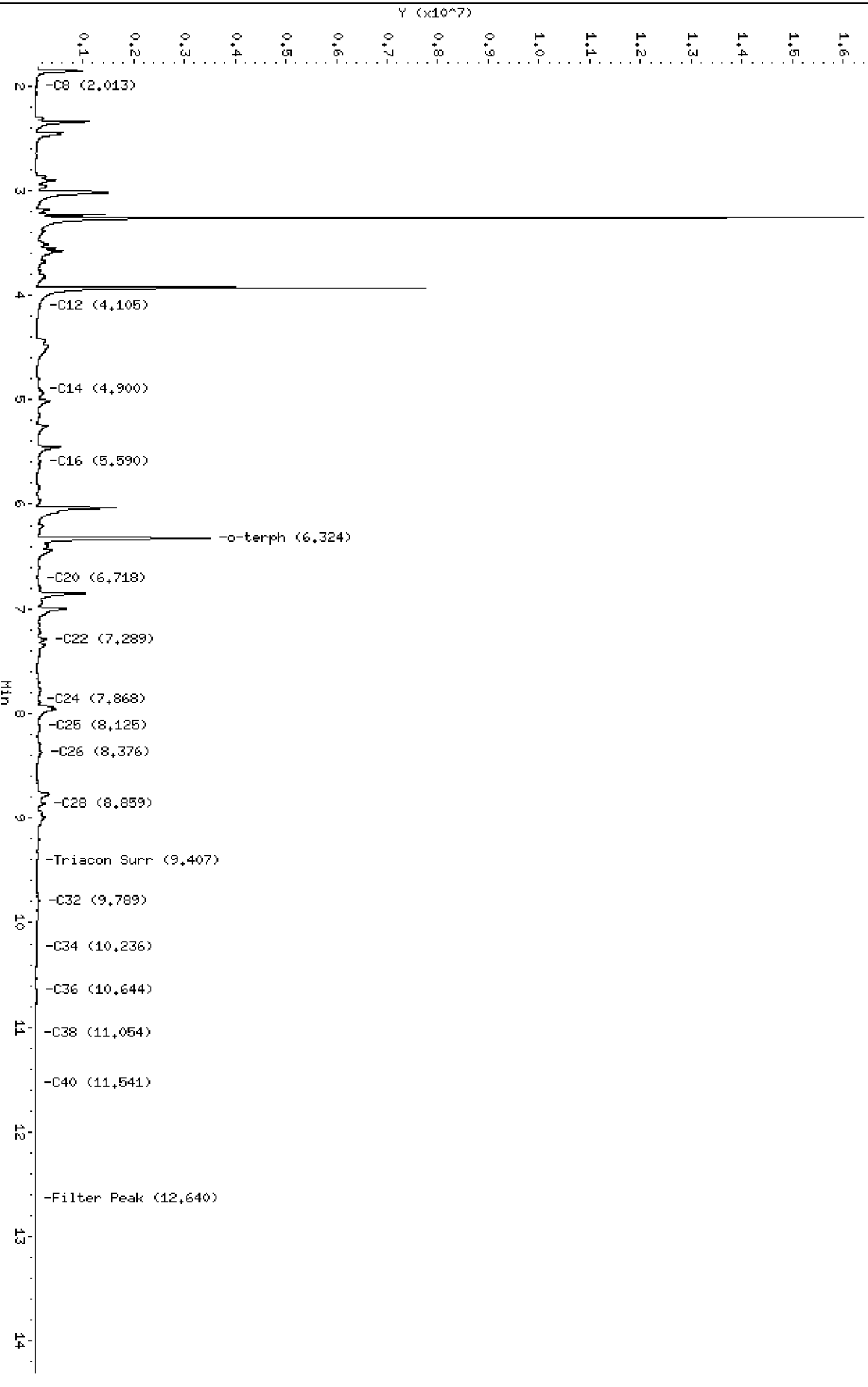
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810_b\420H1009.D



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

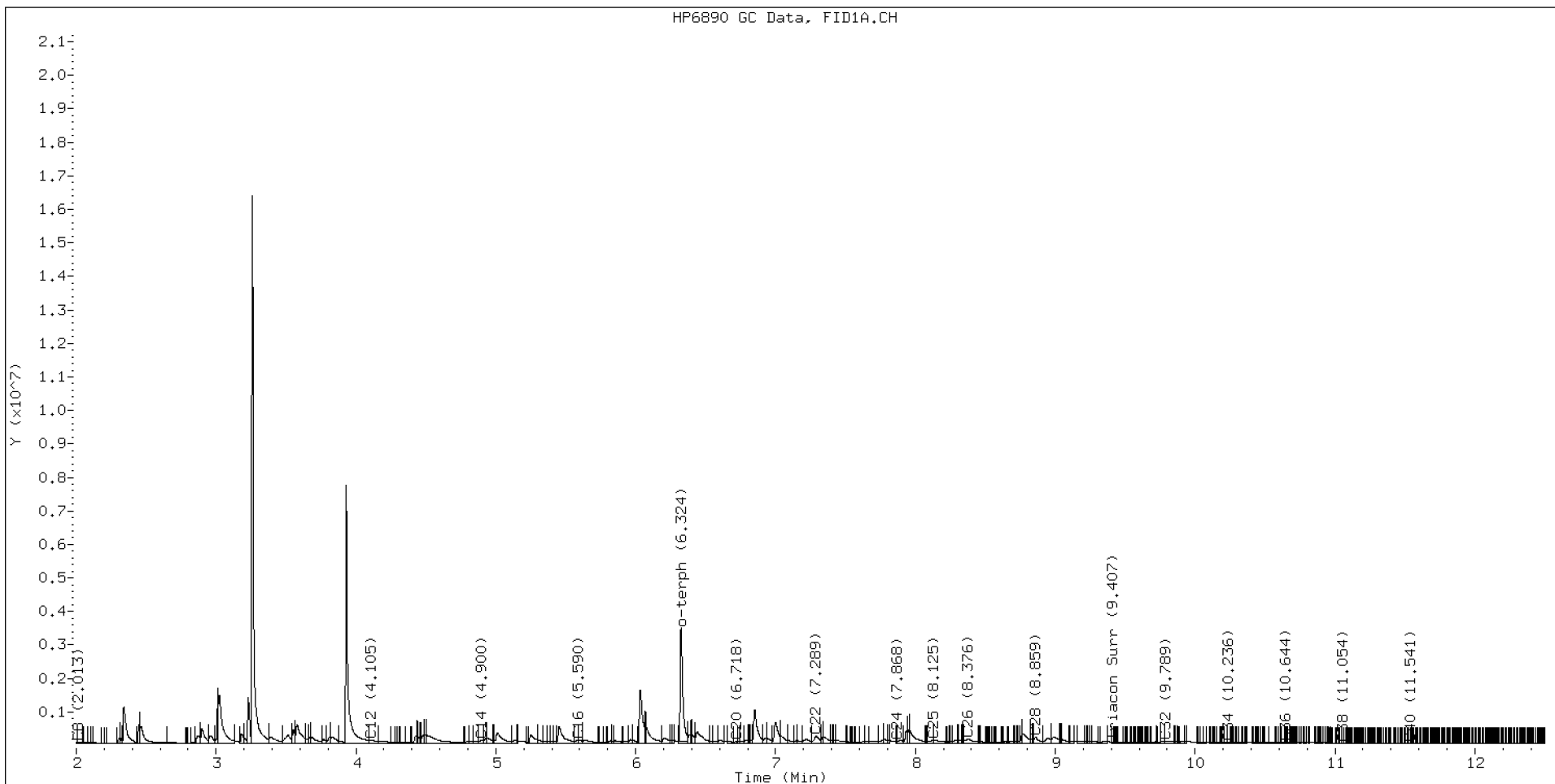
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.013	0.014	13752	23396	WATPHD	(C12-C24)	24094230	151.2
C10	----				WATPHM	(C24-C38)	9822291	97.1
C12	4.105	0.012	97213	295971	AK102	(C10-C25)	55662092	284.7
C14	4.900	0.003	96654	172578	AK103	(C25-C36)	7689863	105.0
C16	5.590	0.046	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

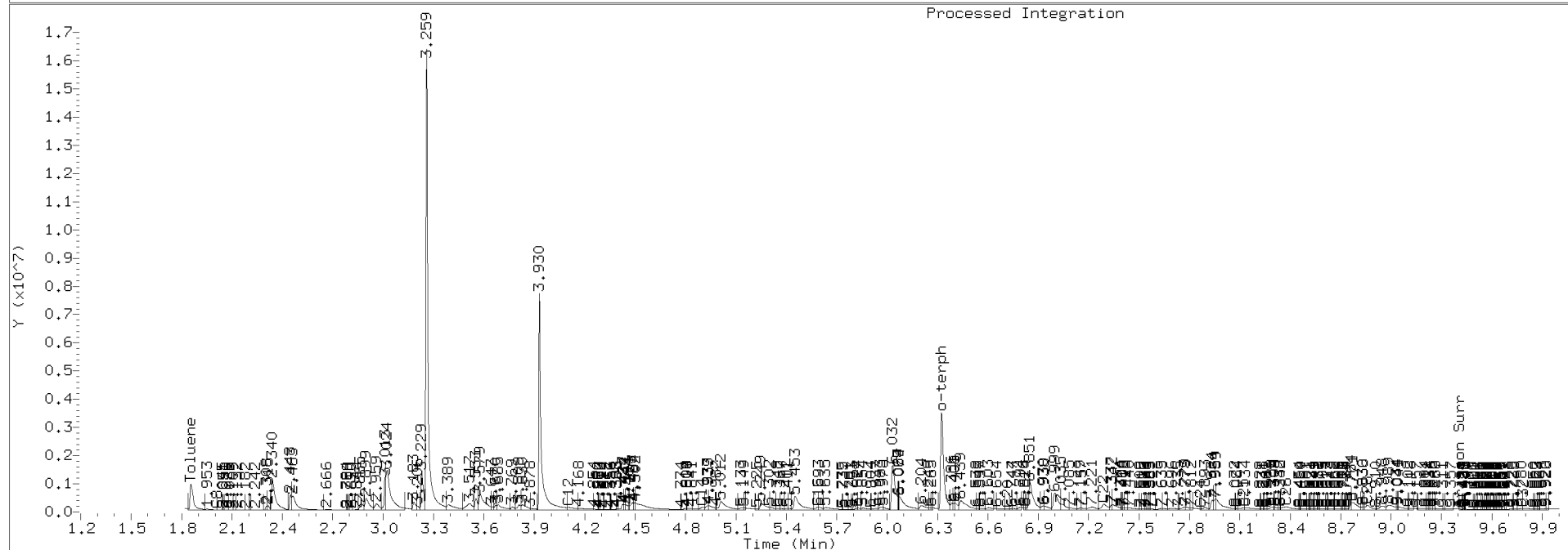
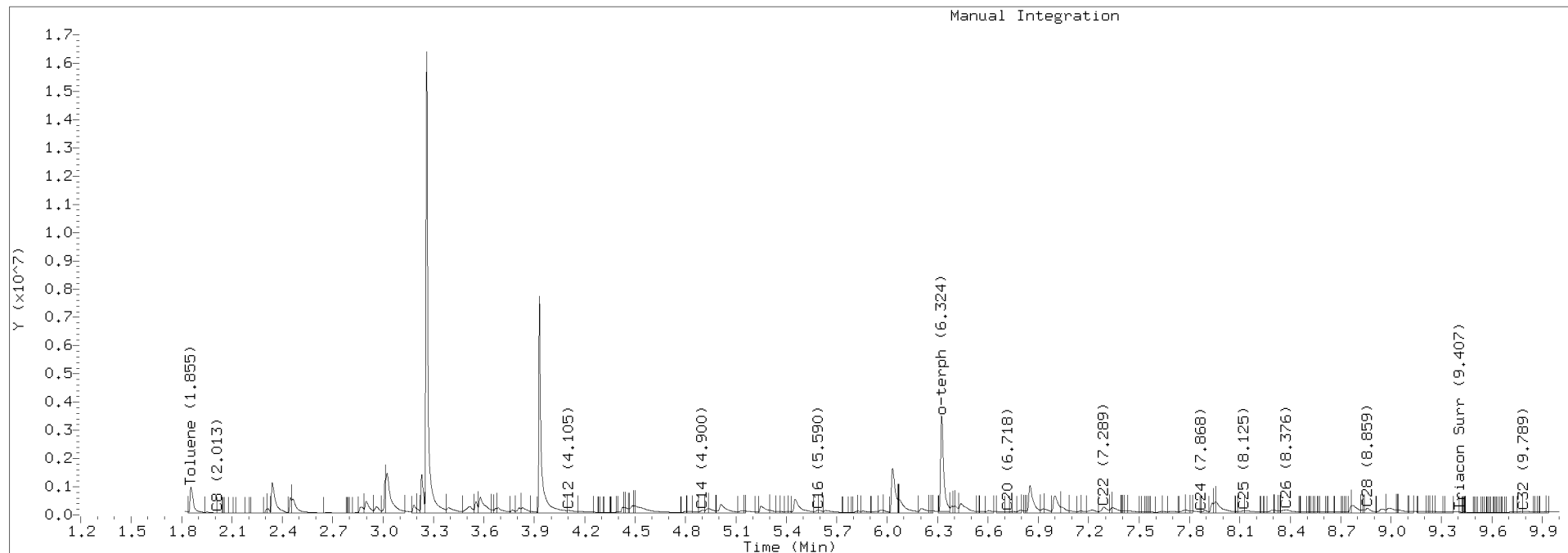
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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



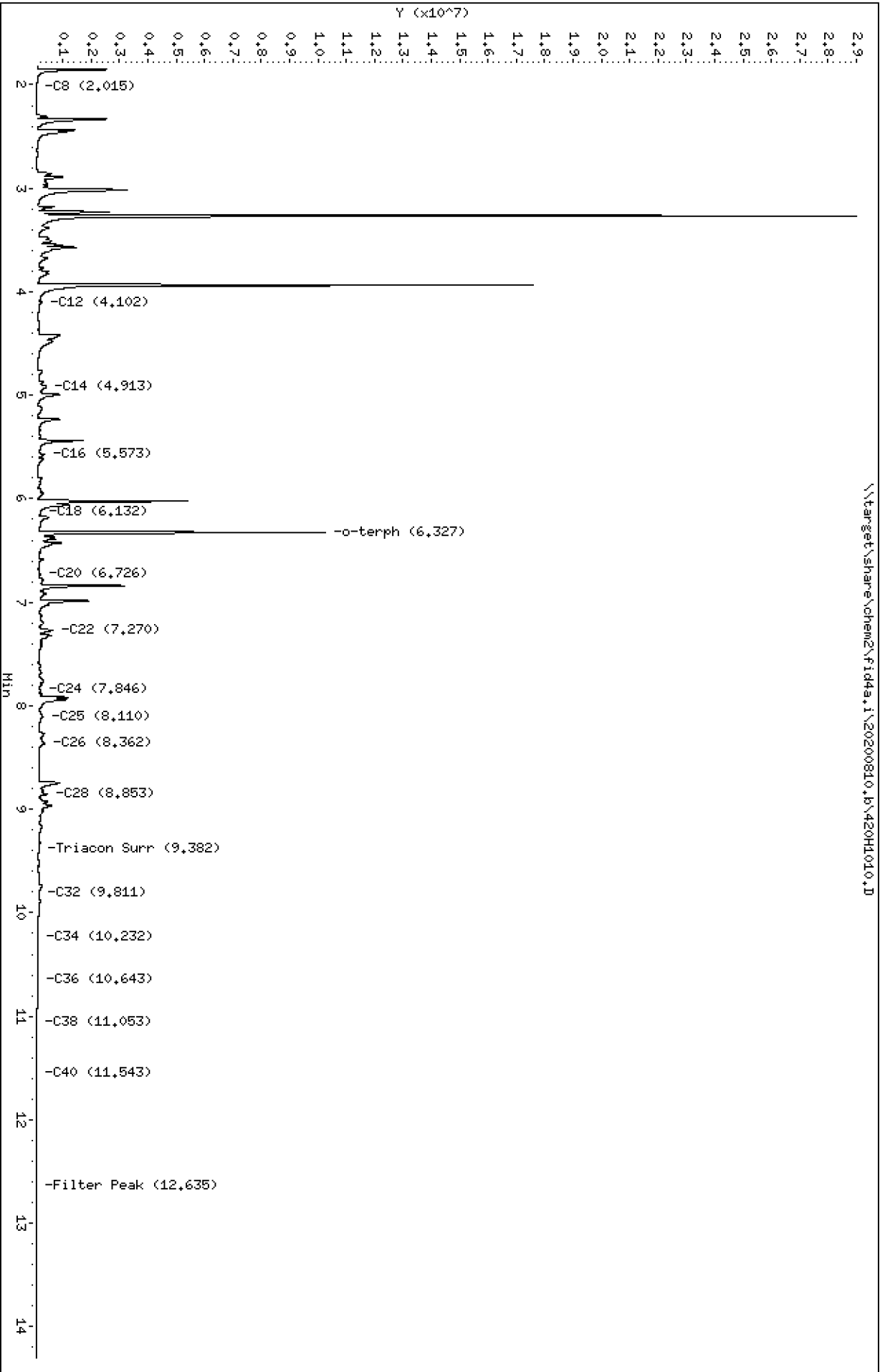
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Date: 10-AUG-2020 12:23
Client ID:
Sample Info: SEQ-CAL3

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/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

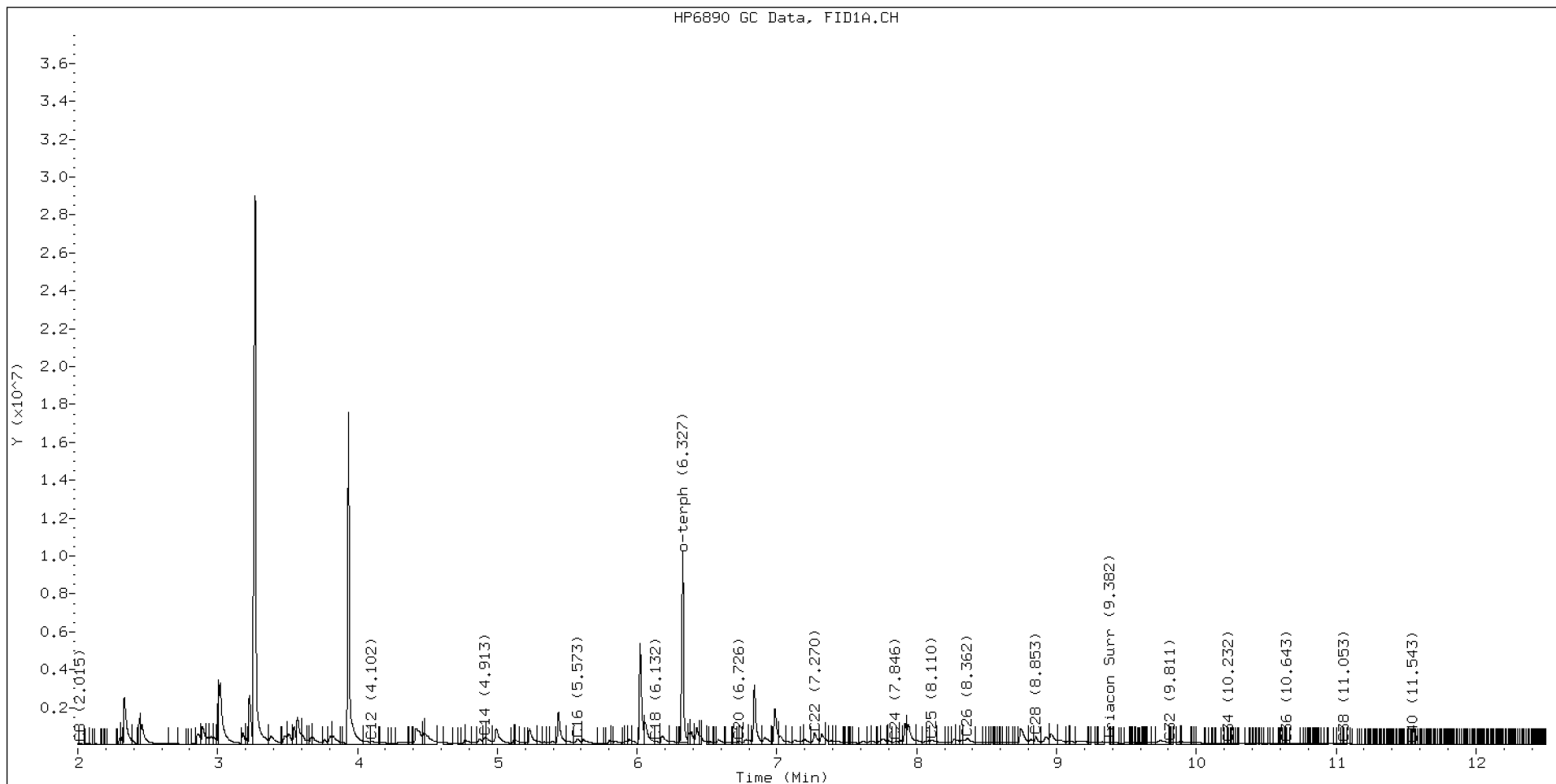
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.015	0.016	17846	36273	WATPHD	(C12-C24)	51259340	321.7
C10	----				WATPHM	(C24-C38)	22066522	218.1
C12	4.102	0.009	179685	448519	AK102	(C10-C25)	116587134	596.4
C14	4.913	0.016	356259	456272	AK103	(C25-C36)	17746552	242.4
C16	5.573	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

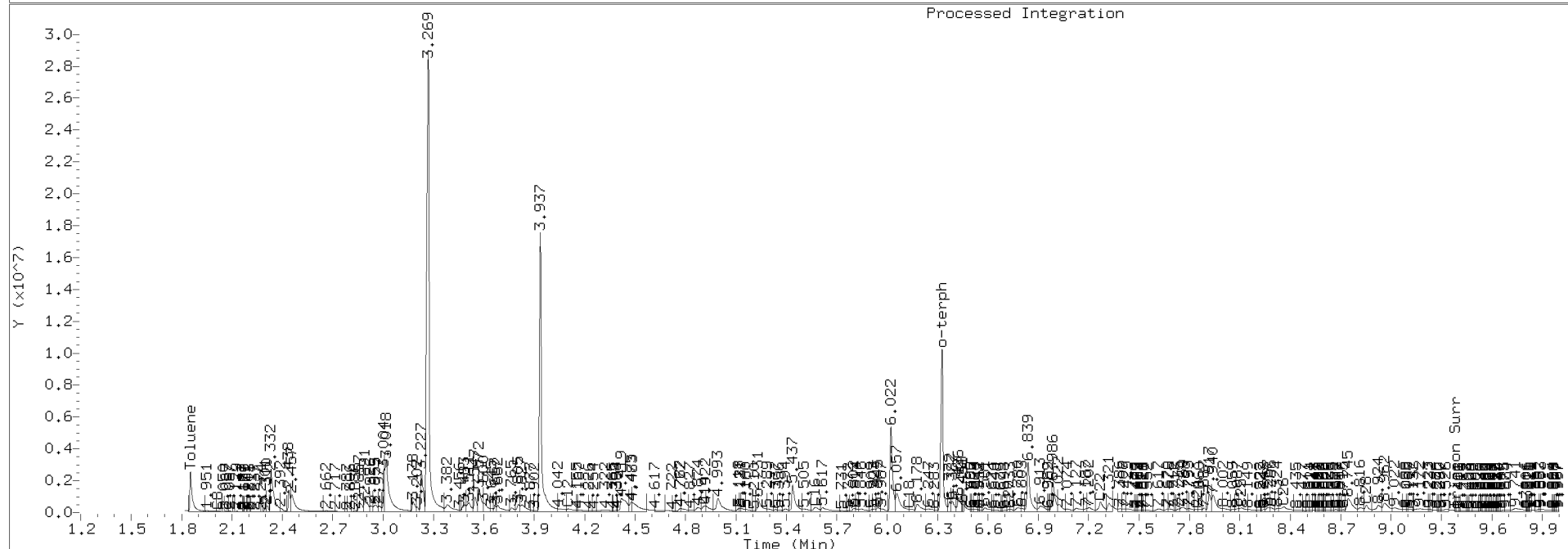
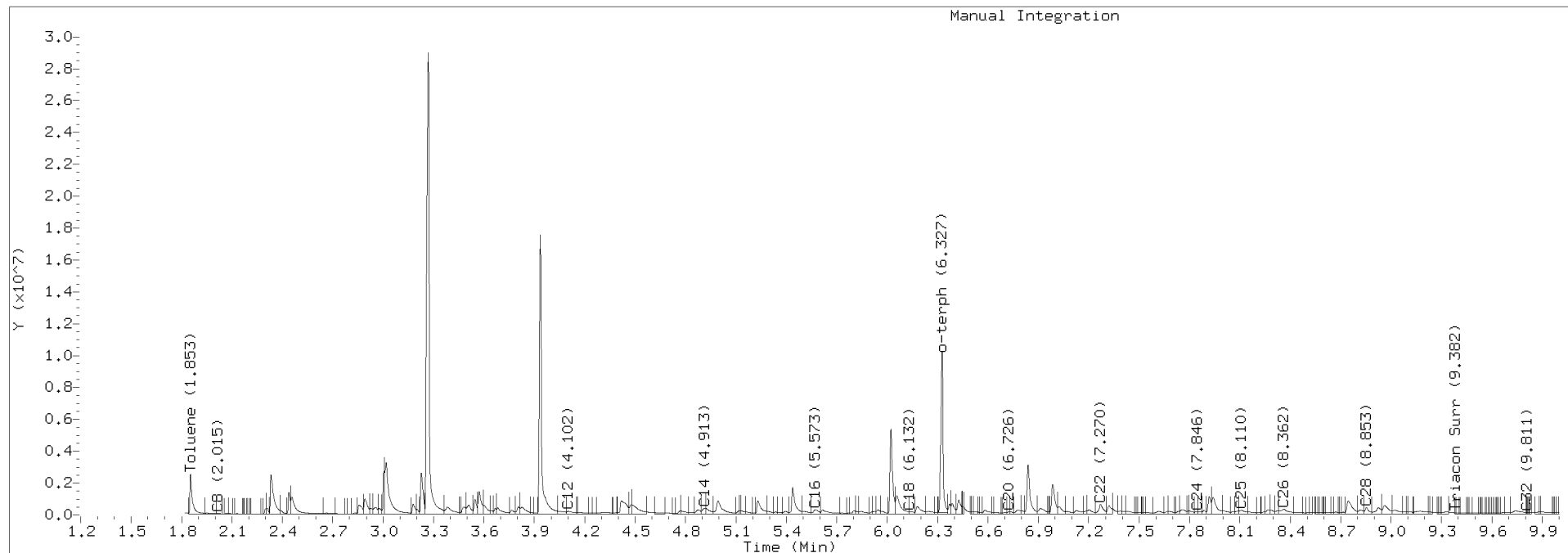
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

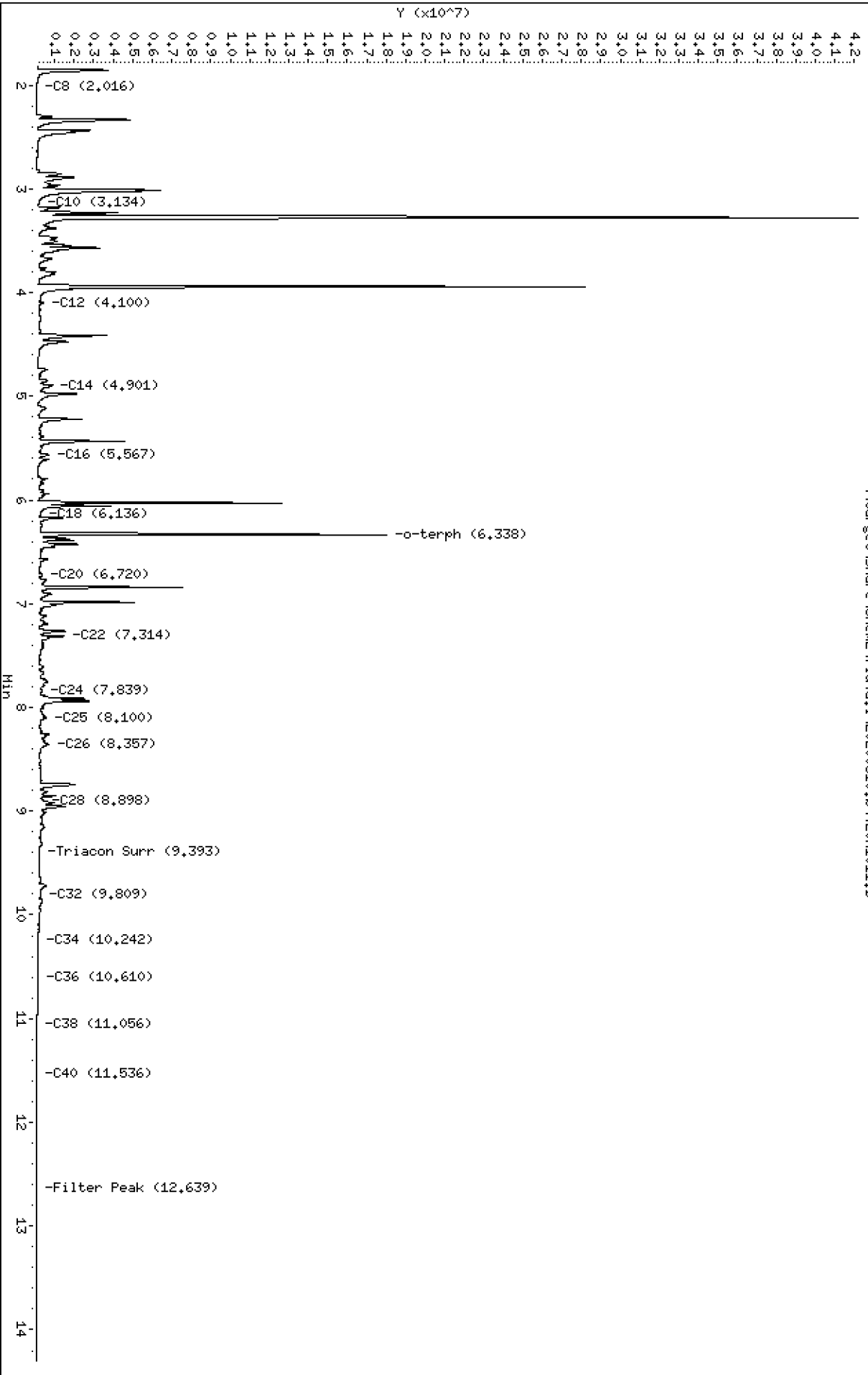
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810_b\420H1011.D



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

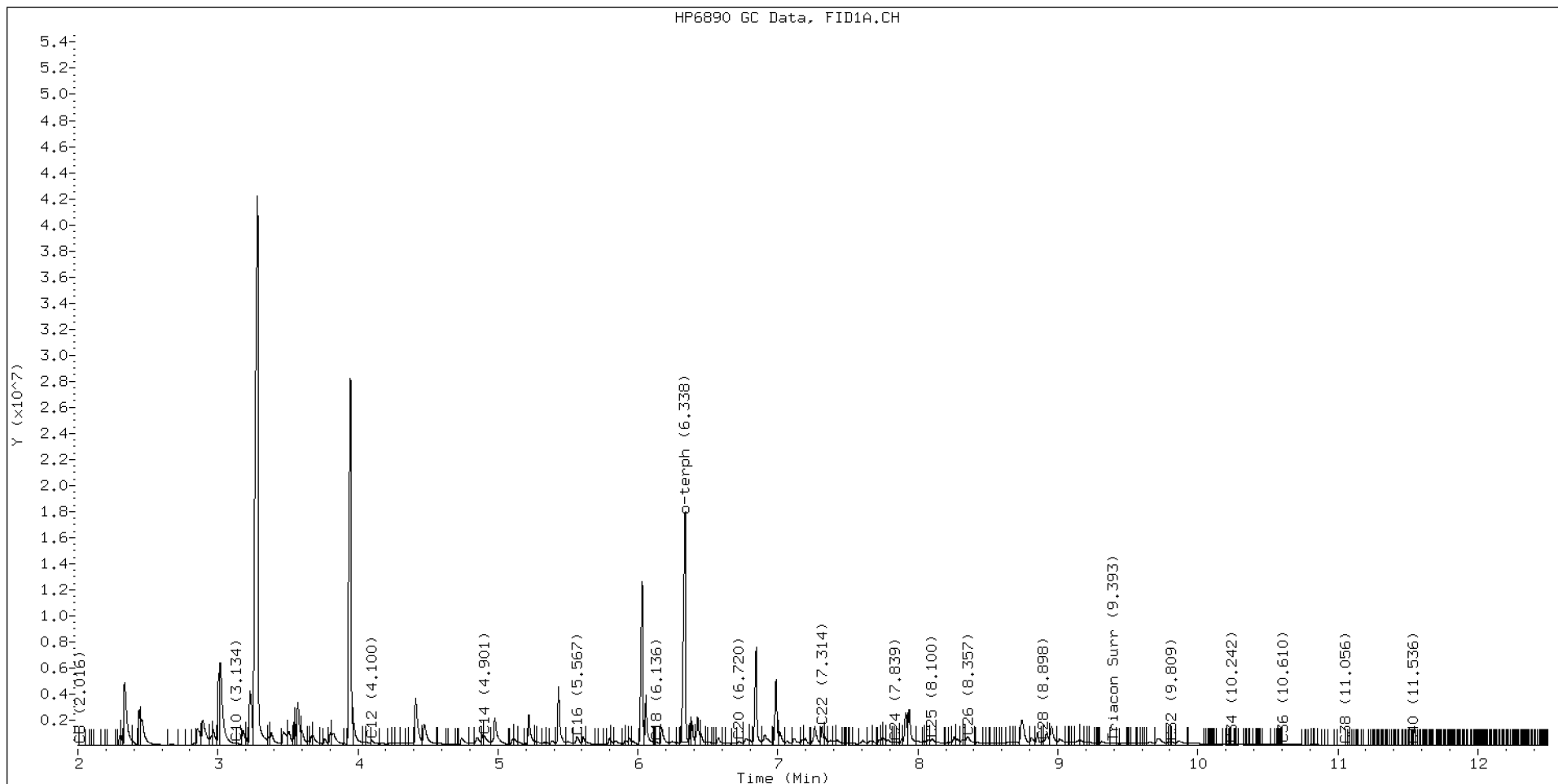
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.016	0.017	24926	59167	WATPHD	(C12-C24)	103926698	652.2
C10	3.134	0.022	150444	235035	WATPHM	(C24-C38)	45820283	452.9
C12	4.100	0.007	374328	737397	AK102	(C10-C25)	235546622	1204.9
C14	4.901	0.004	751227	1307415	AK103	(C25-C36)	37291444	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

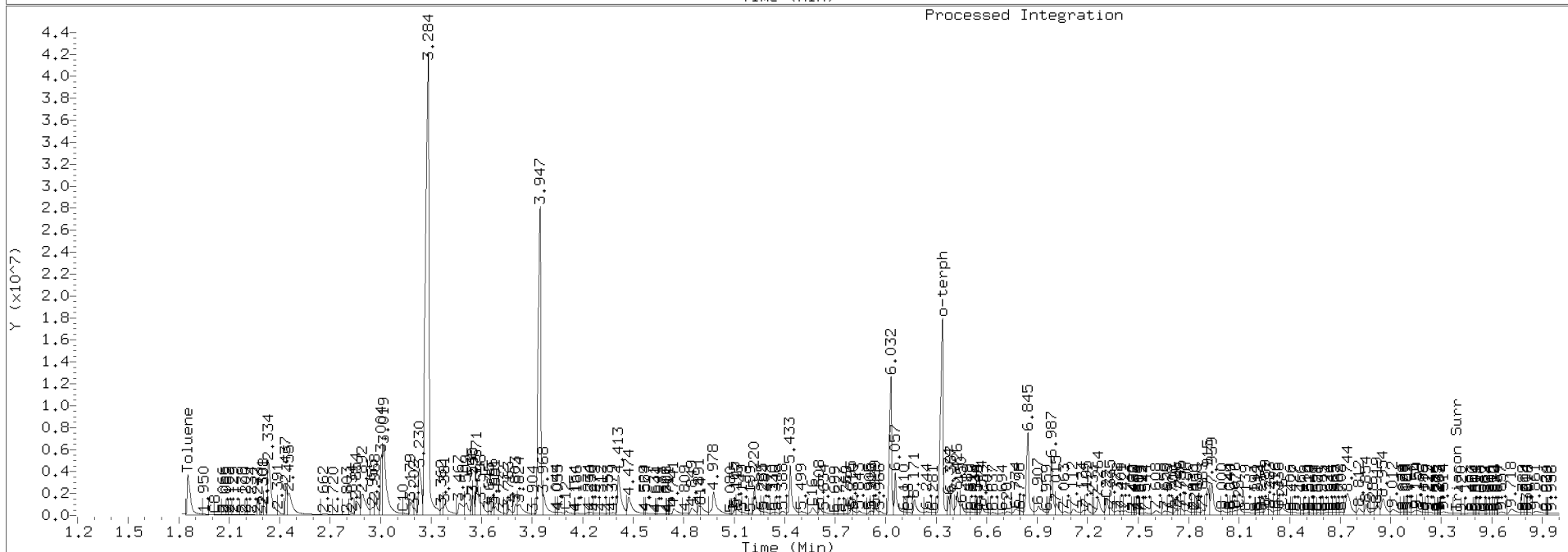
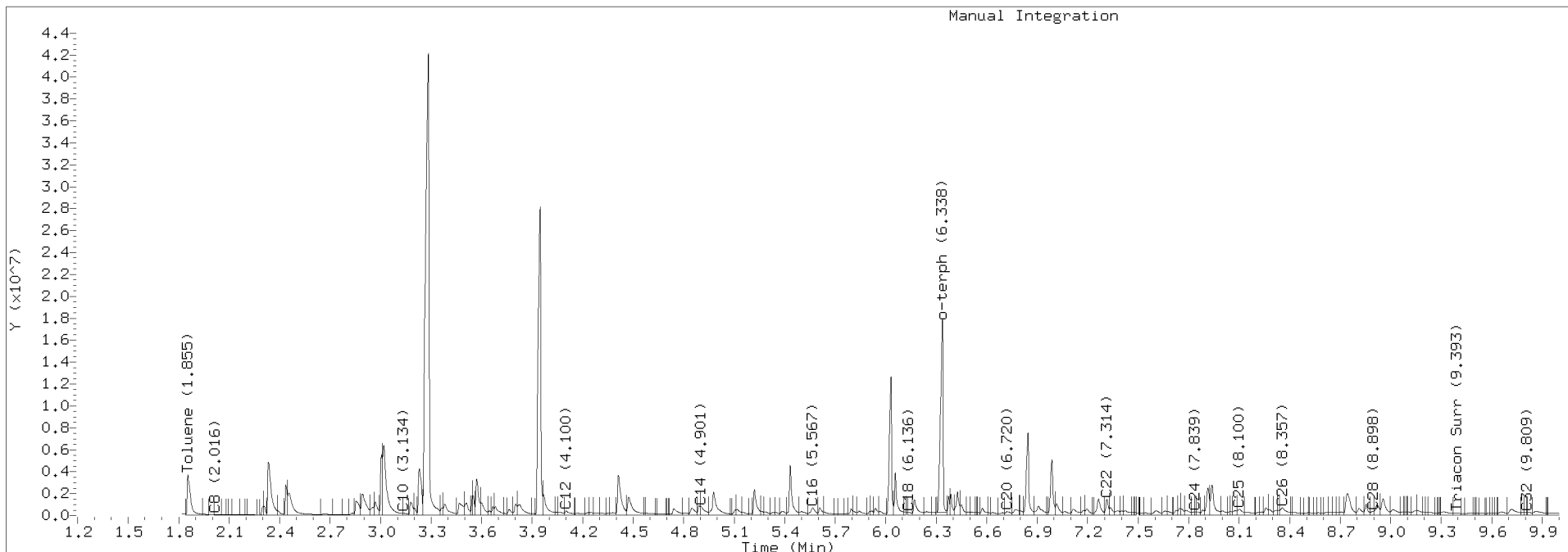
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

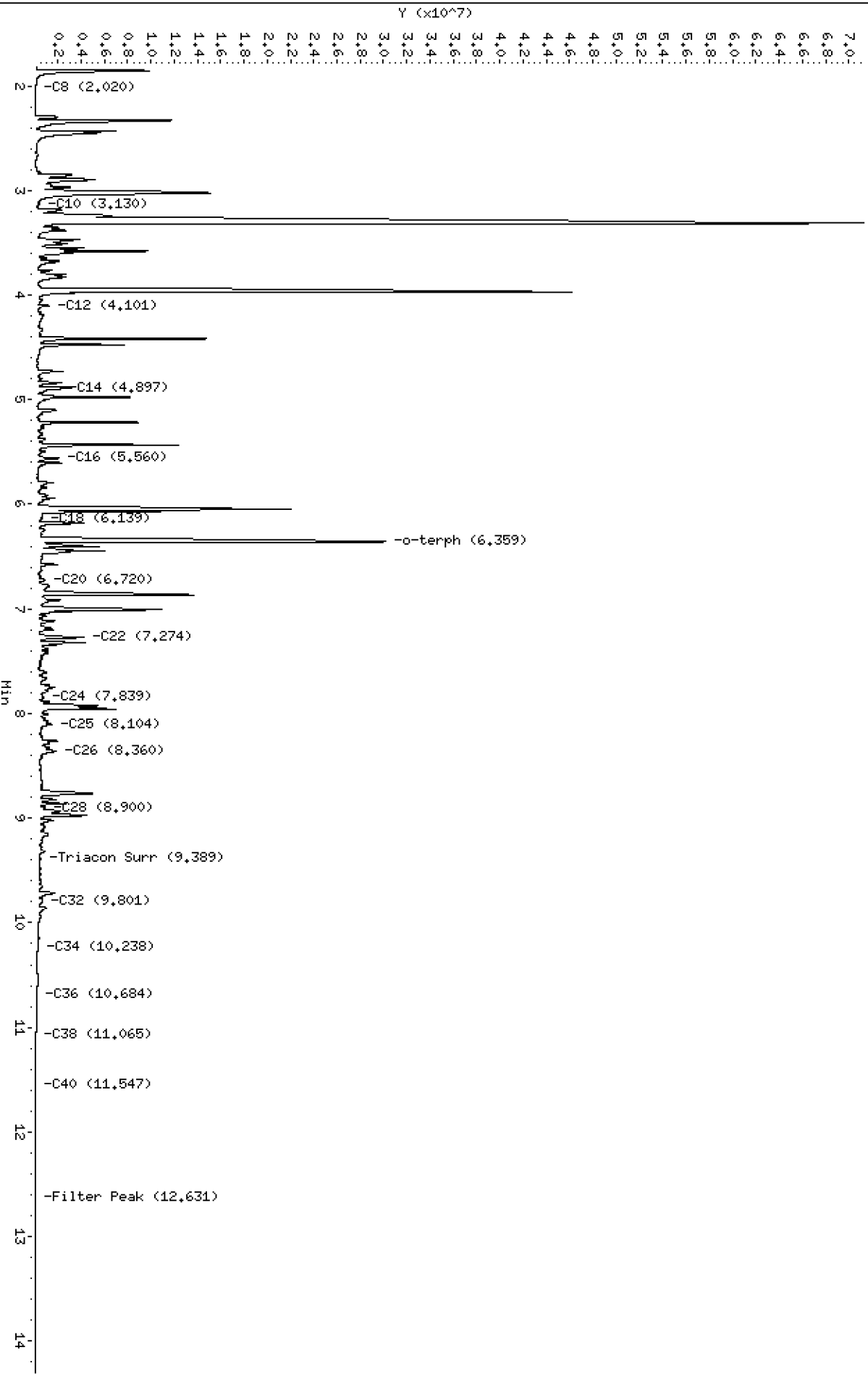
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20200810_b\420H1012.D



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

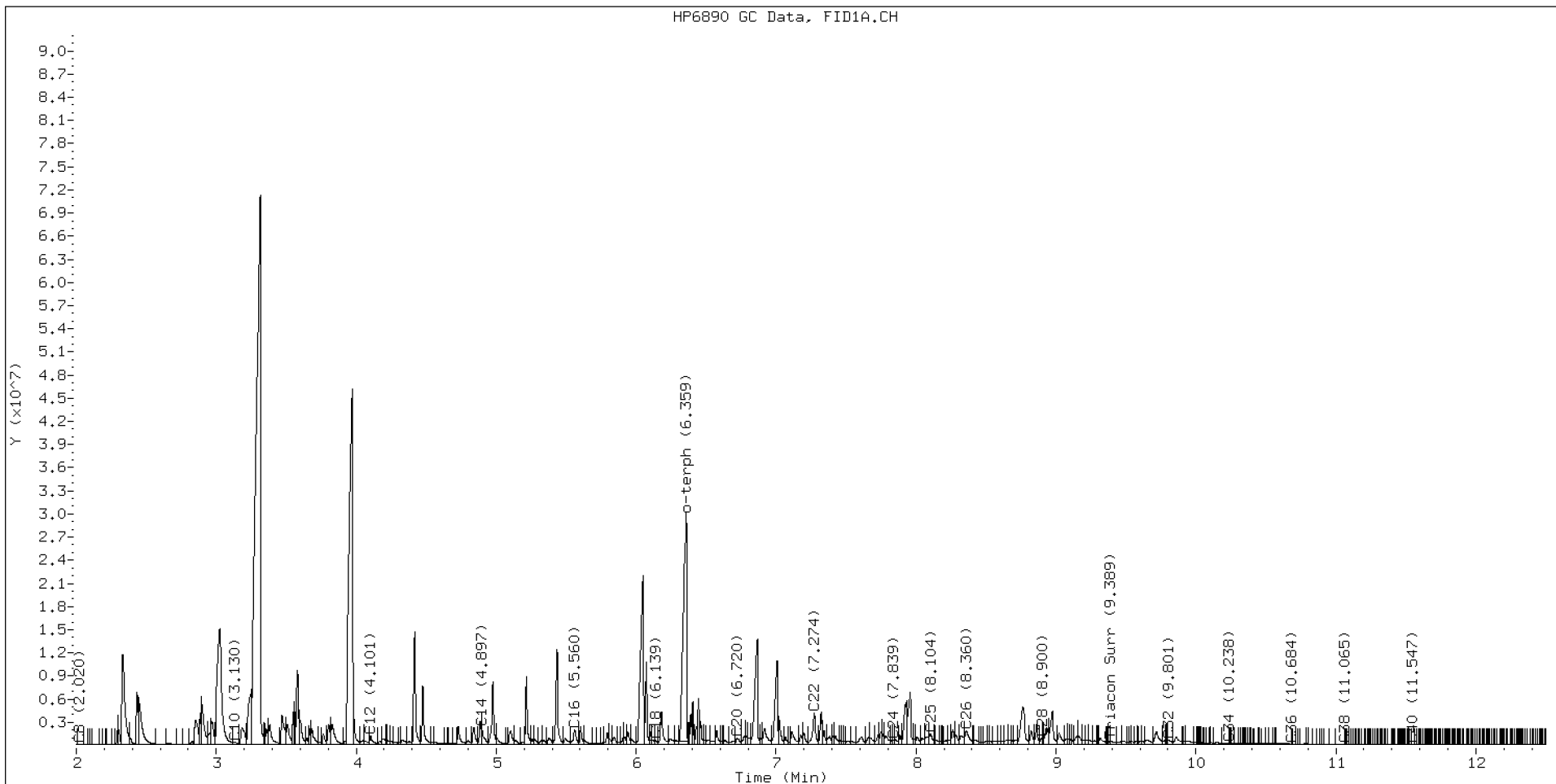
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.020	0.021	52370	125836	WATPHD	(C12-C24)	268023483	1682.1
C10	3.130	0.018	317129	695453	WATPHM	(C24-C38)	117269407	1159.2
C12	4.101	0.008	1186747	1663447	AK102	(C10-C25)	600790147	3073.2
C14	4.897	-0.000	2168738	2784429	AK103	(C25-C36)	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

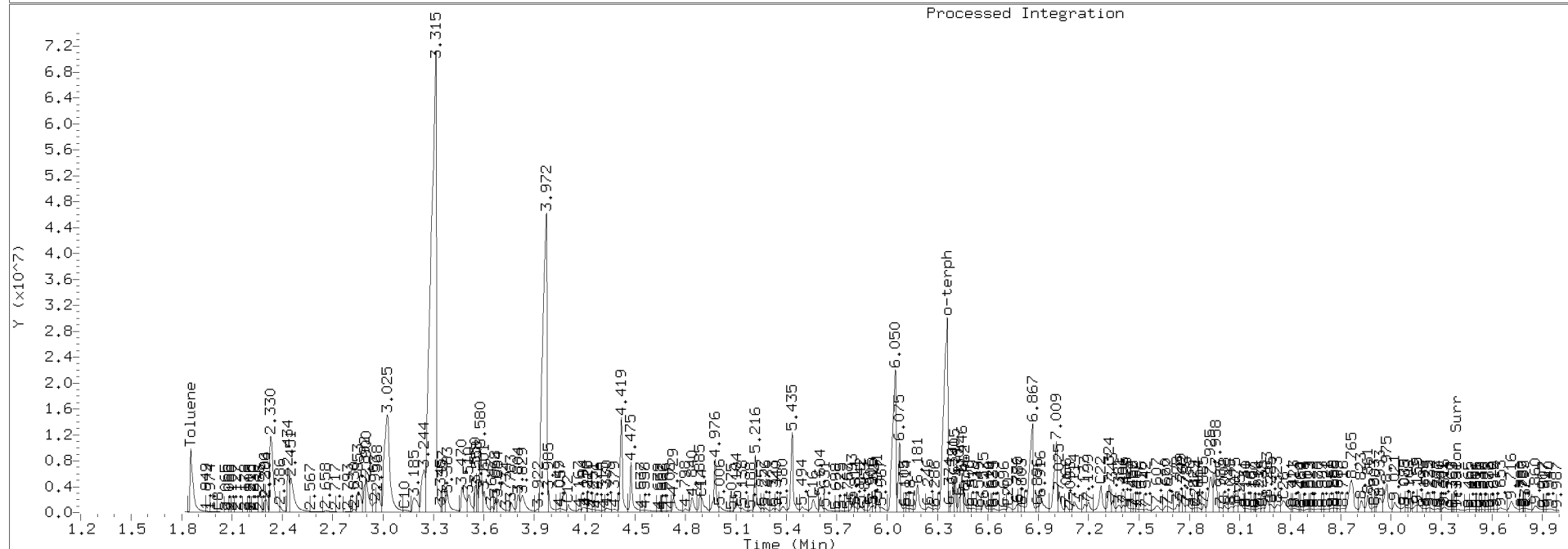
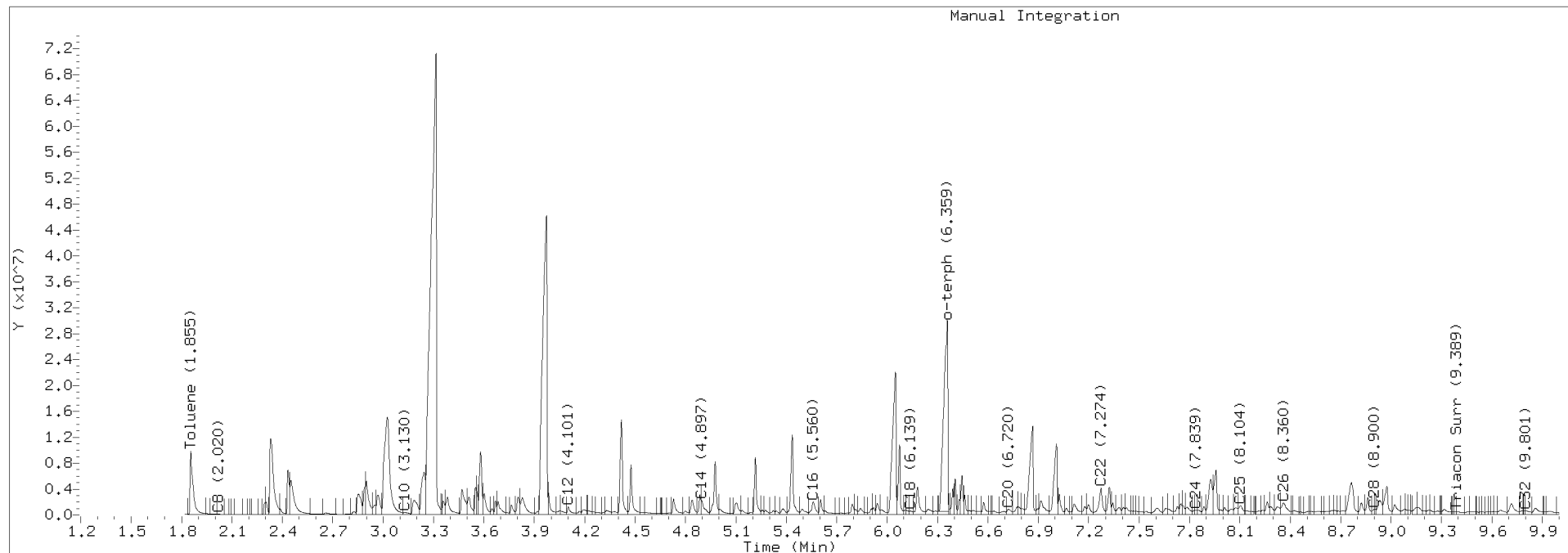
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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

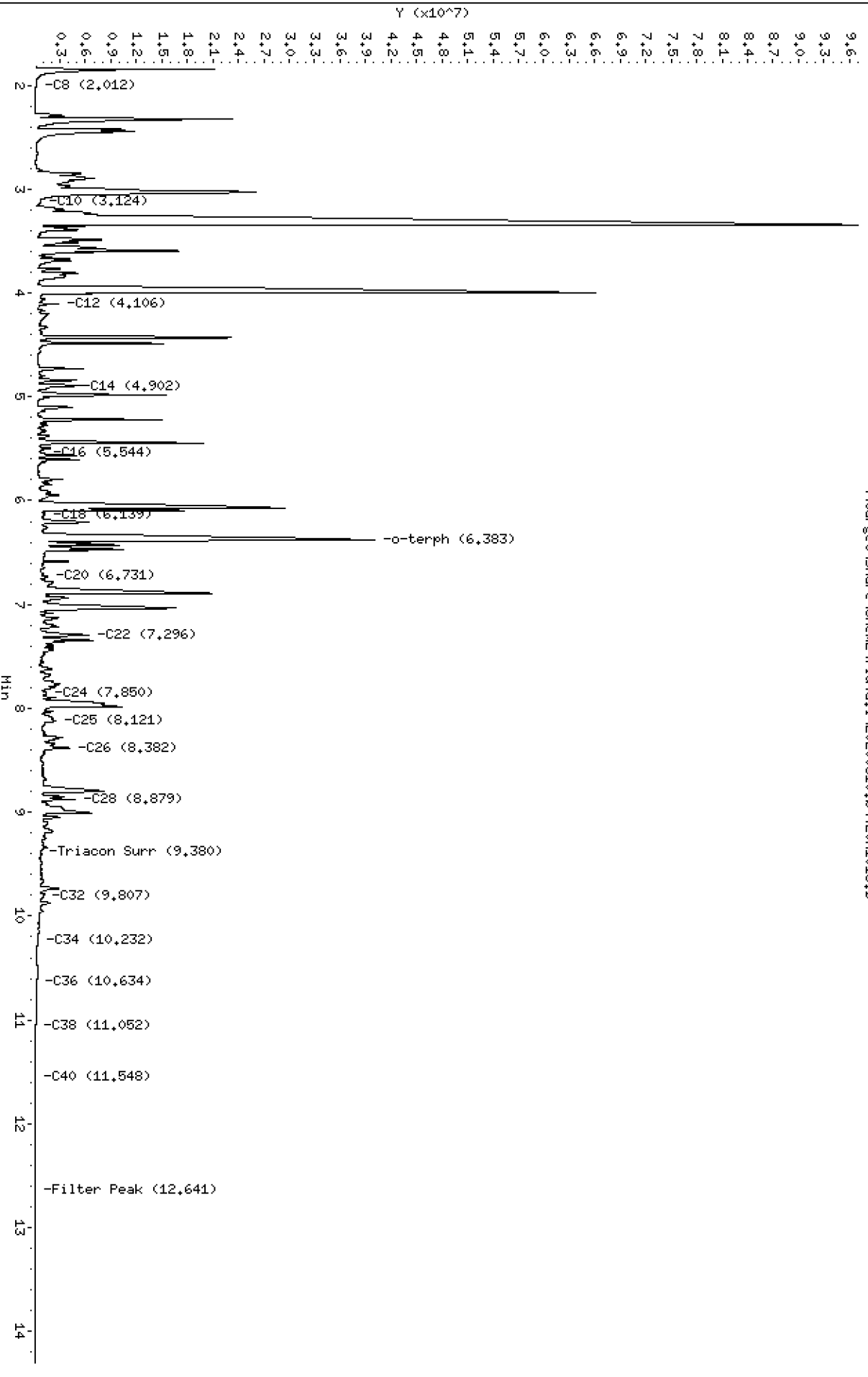
Column phase: RTX-1

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

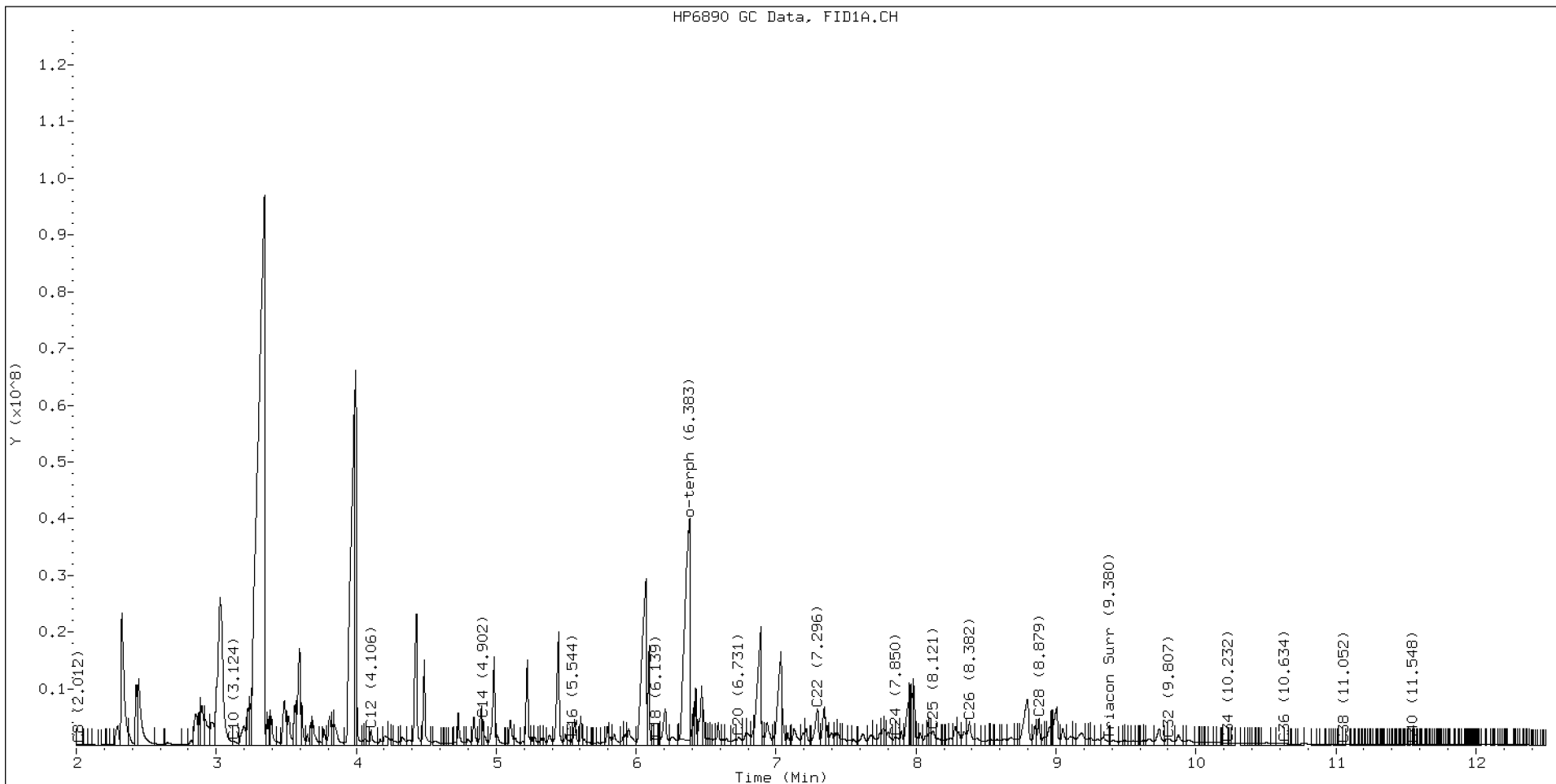
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.012	0.013	95463	213698	WATPHD	(C12-C24)	510718478	3205.3
C10	3.124	0.012	658048	1310273	WATPHM	(C24-C38)	217018558	2145.2
C12	4.106	0.013	2689100	3210487	AK102	(C10-C25)	1154977604	5908.1
C14	4.902	0.005	4529096	3169210	AK103	(C25-C36)	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

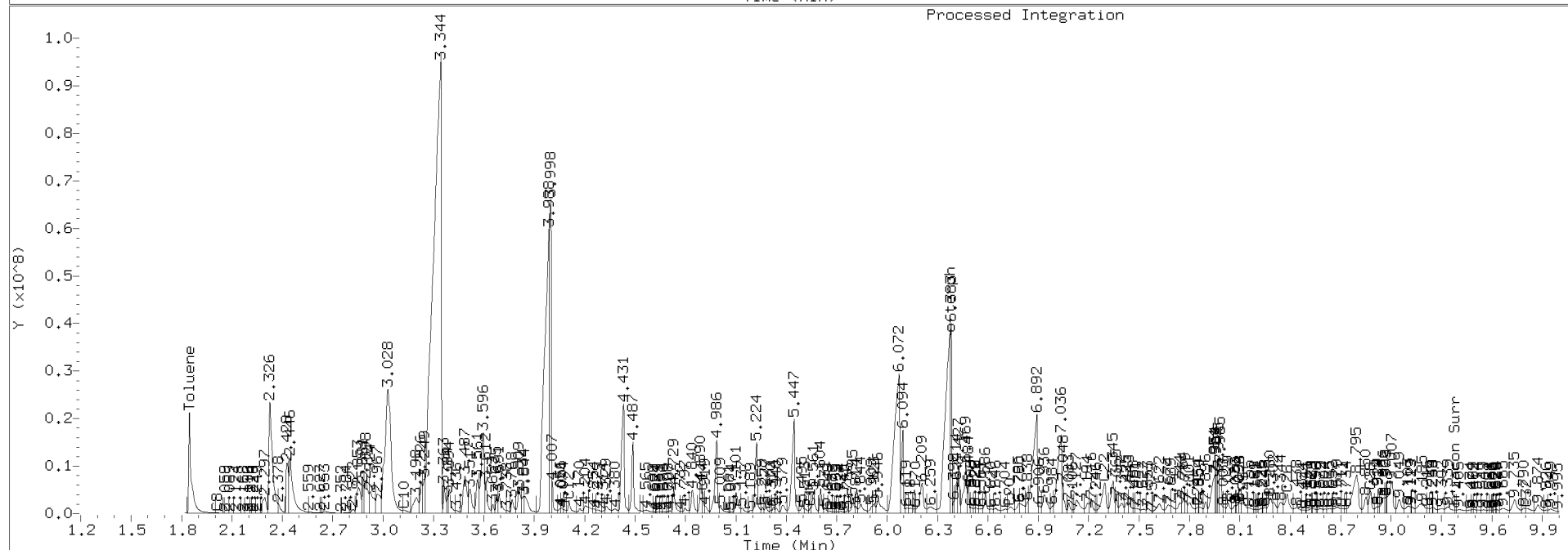
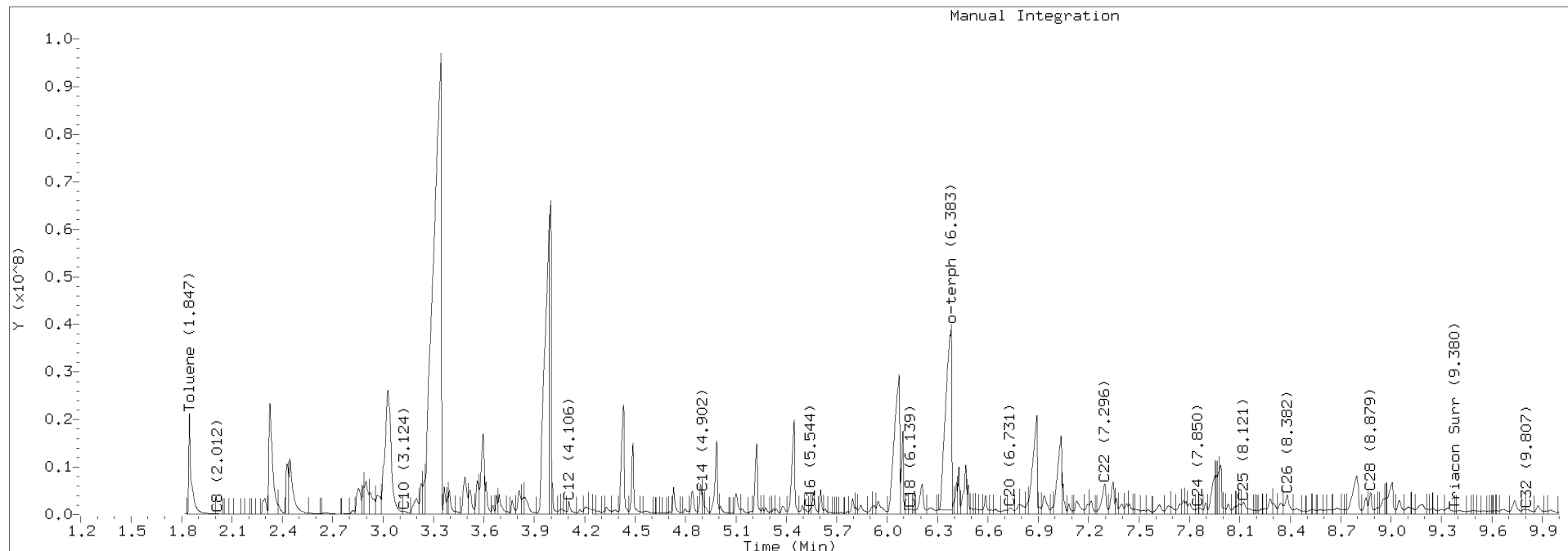
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	90128.3	30-MAR-2020



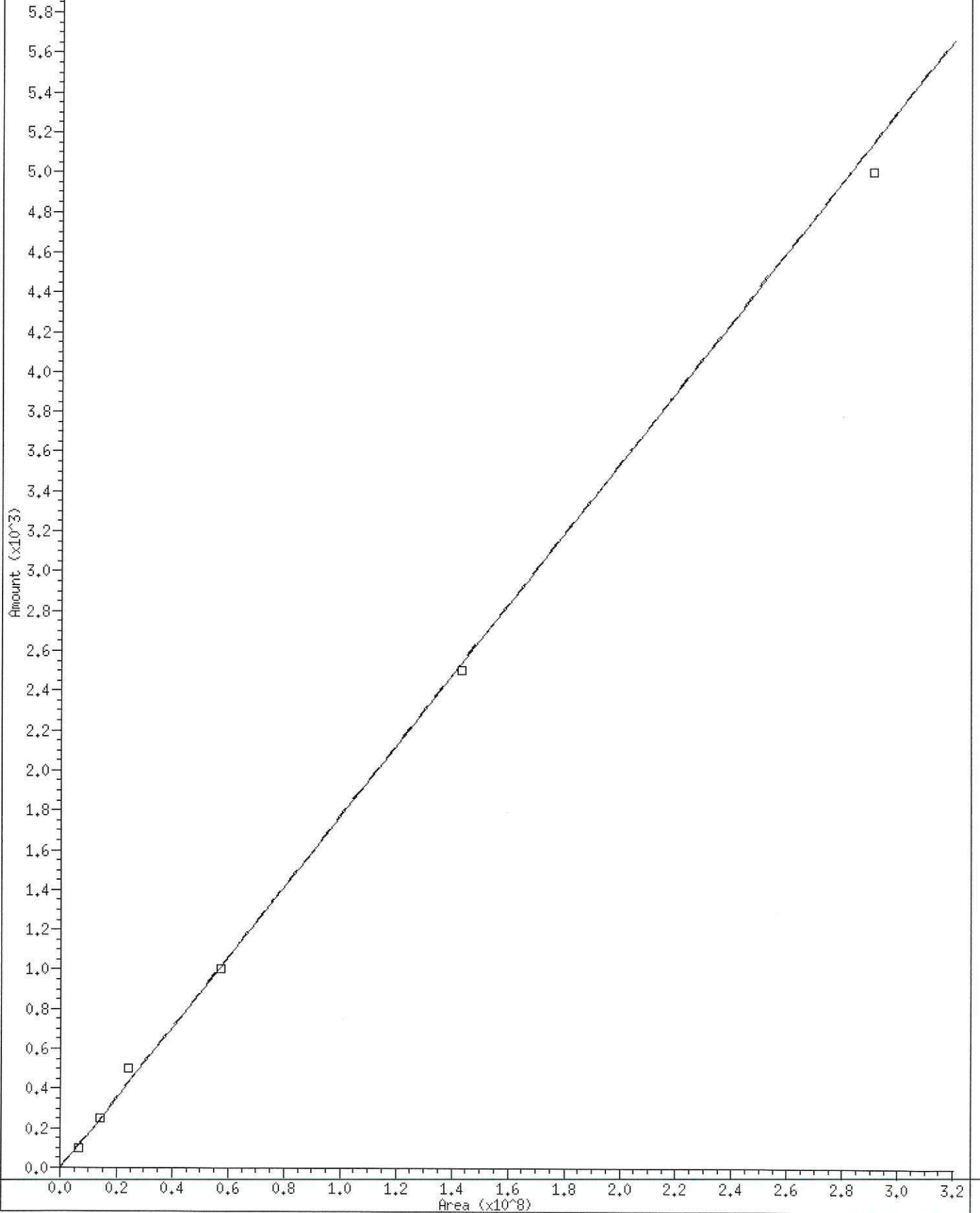
TPH Manual Integrations Report

Datafile: FID4A, 20200810.b/420H1013.D Injection: 10-AUG-2020 13:22

Lab ID:SEQ-CAL6



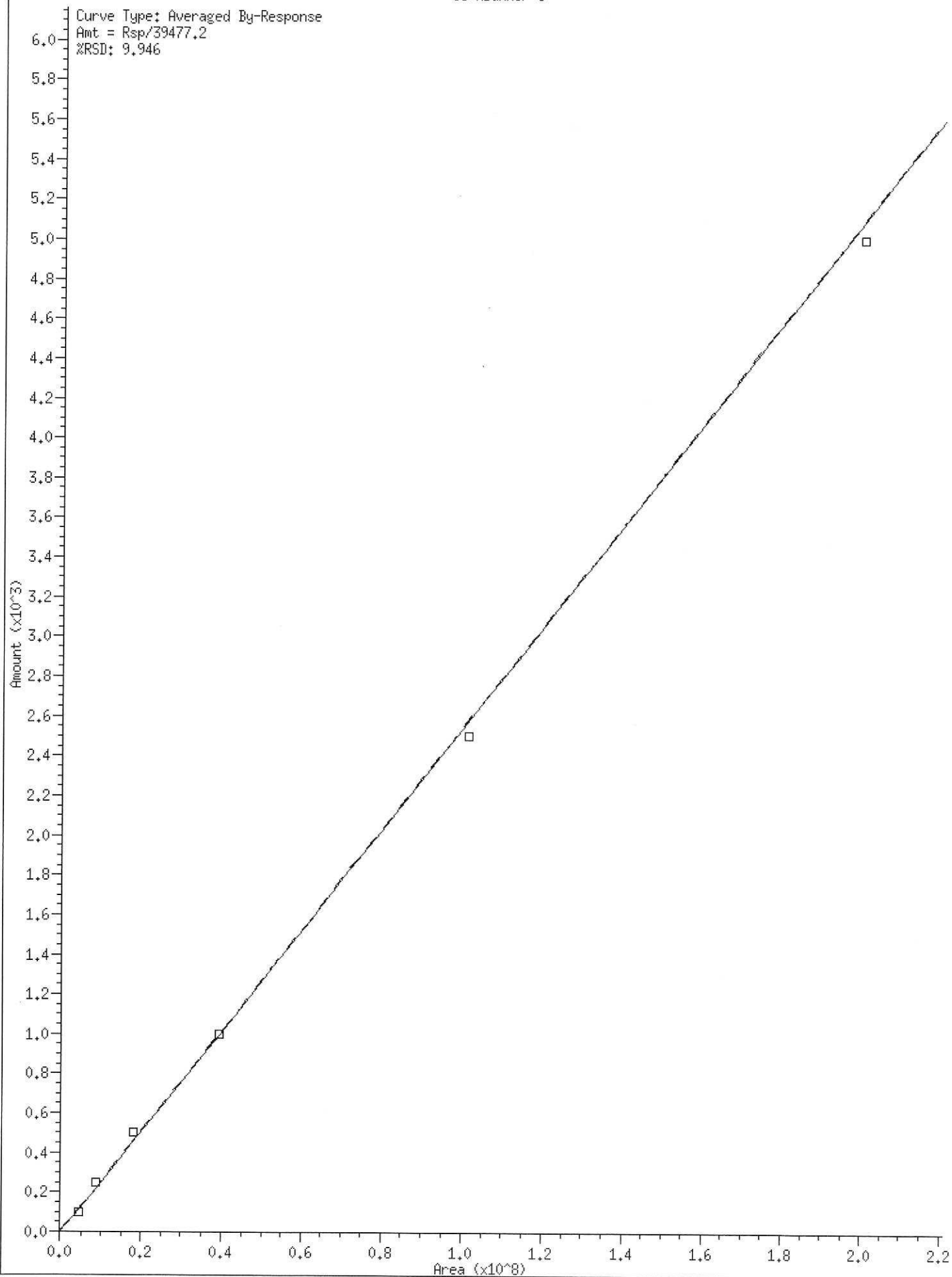
Curve Type: Averaged By-Response
Amt = Rsp/56572.1
%RSD: 8.647



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: 20J0385

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

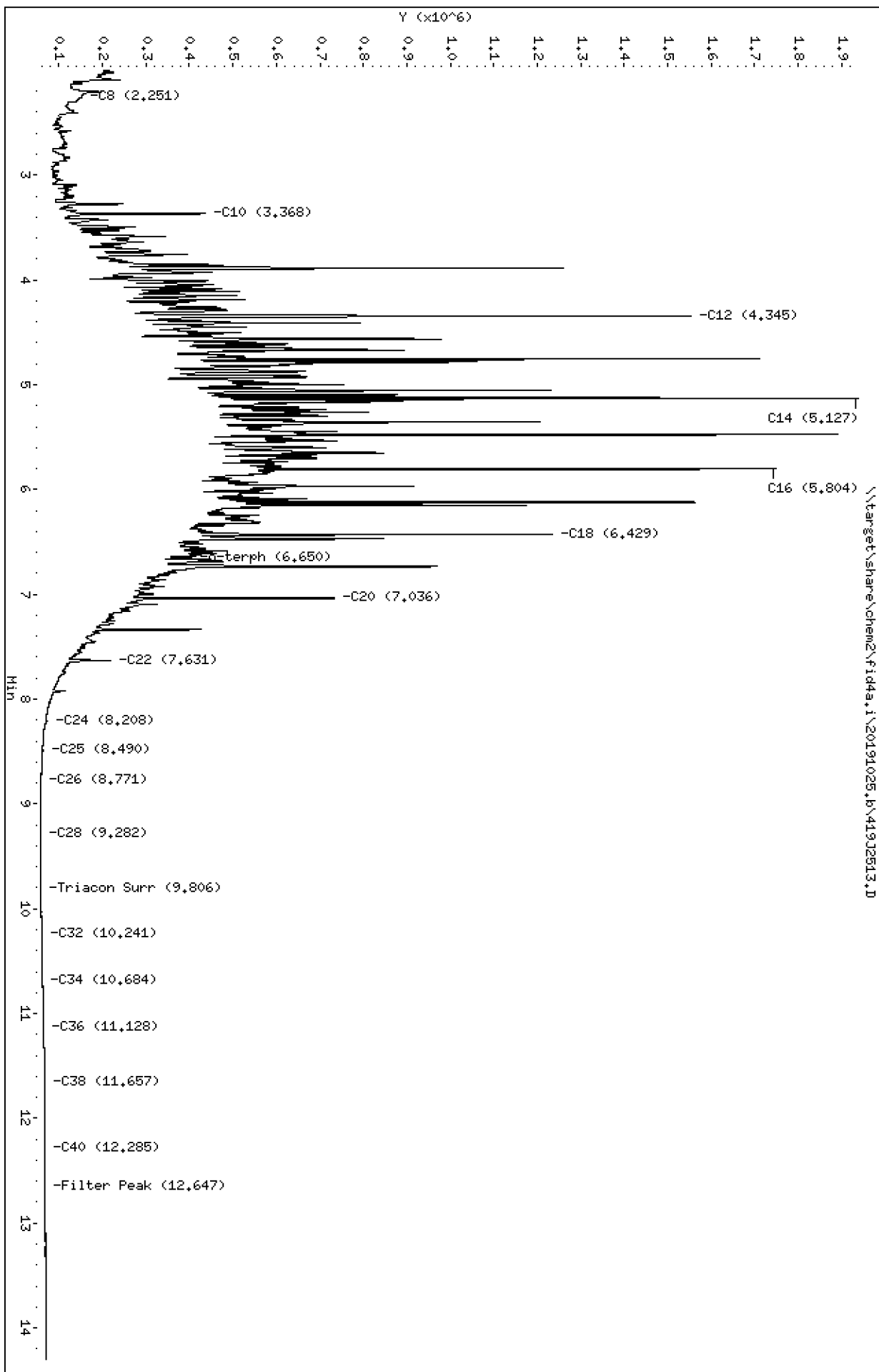
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25

Page 1



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

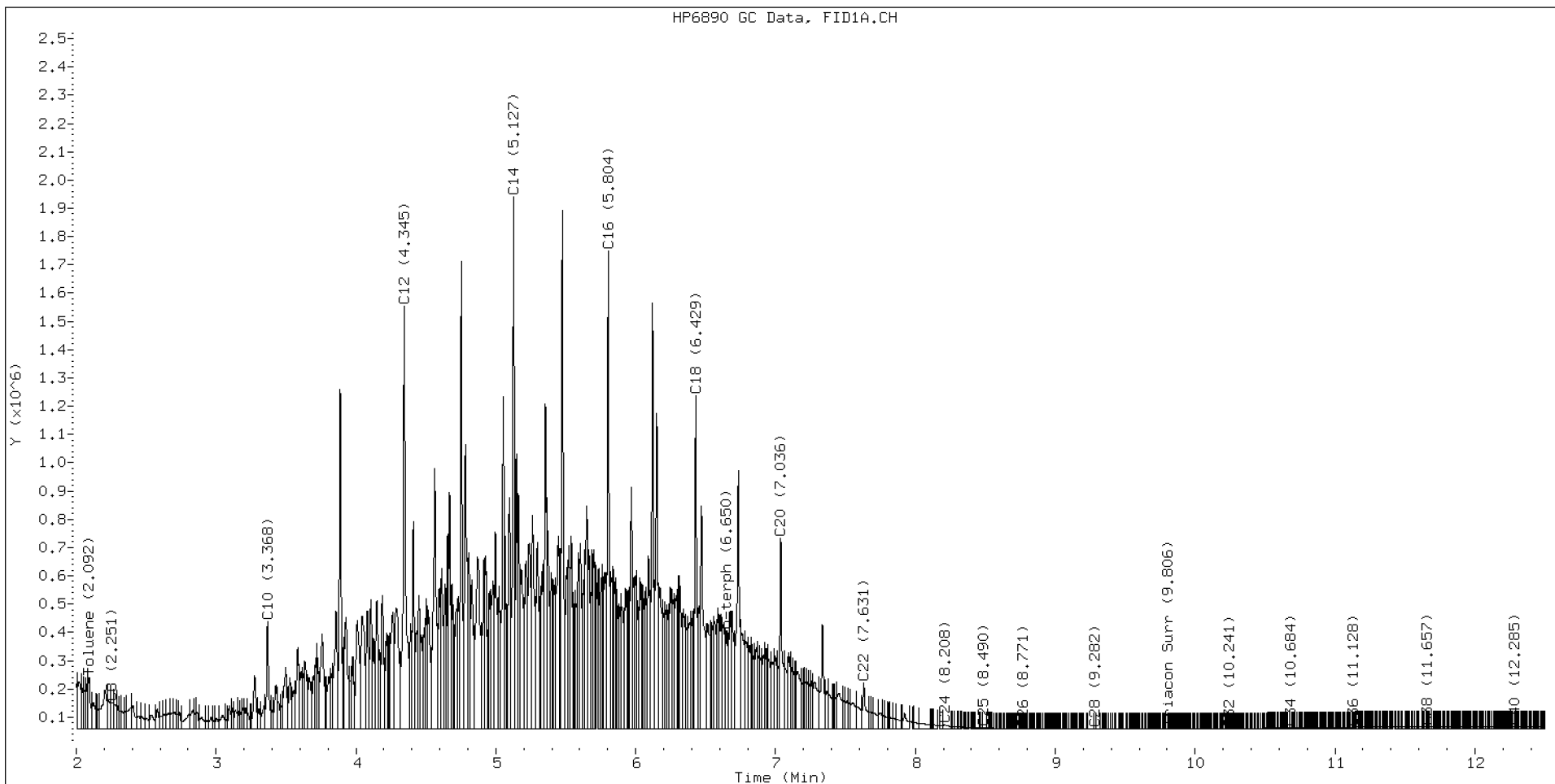
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.251	-0.011	94961	147864	WATPHD	(C12-C24)	81454017	511.2
C10	3.368	-0.005	379319	401979	WATPHM	(C24-C38)	639731	4.8
C12	4.345	-0.002	1496096	1990616	AK102	(C10-C25)	97704414	499.8
C14	5.127	-0.002	1881566	1510979	AK103	(C25-C36)	332991	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.

Client: Anchor QEA, LLC

Calibration: CJ00089

Sequence: SHJ0406

SDG: 20J0385

Project: GascoSiltronic

Laboratory ID: SHJ0406-SCV2

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:

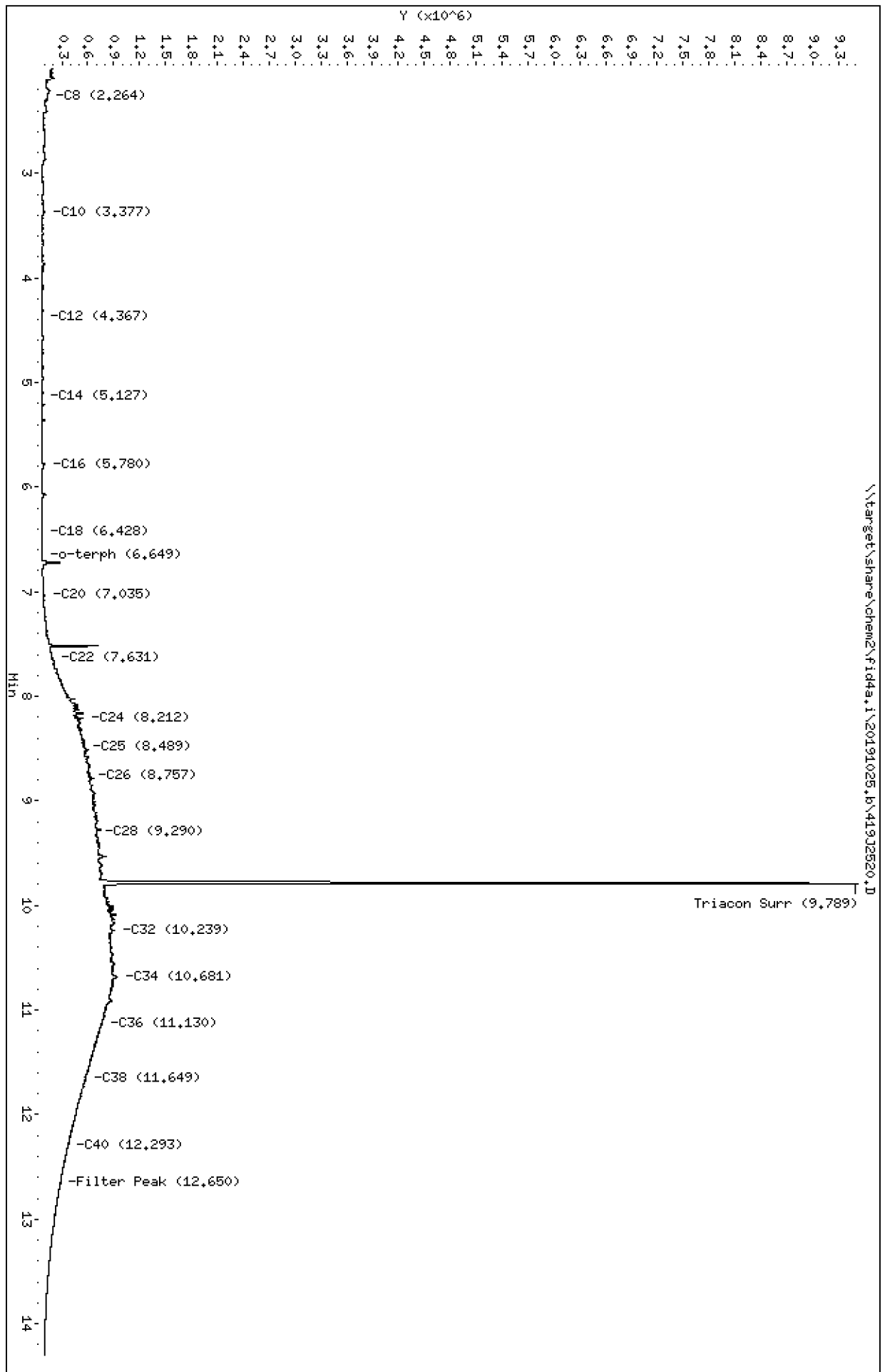
Sample Info: SHJ0406-SCV2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO/SH/VTS/JGR

Column diameter: 0.25



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

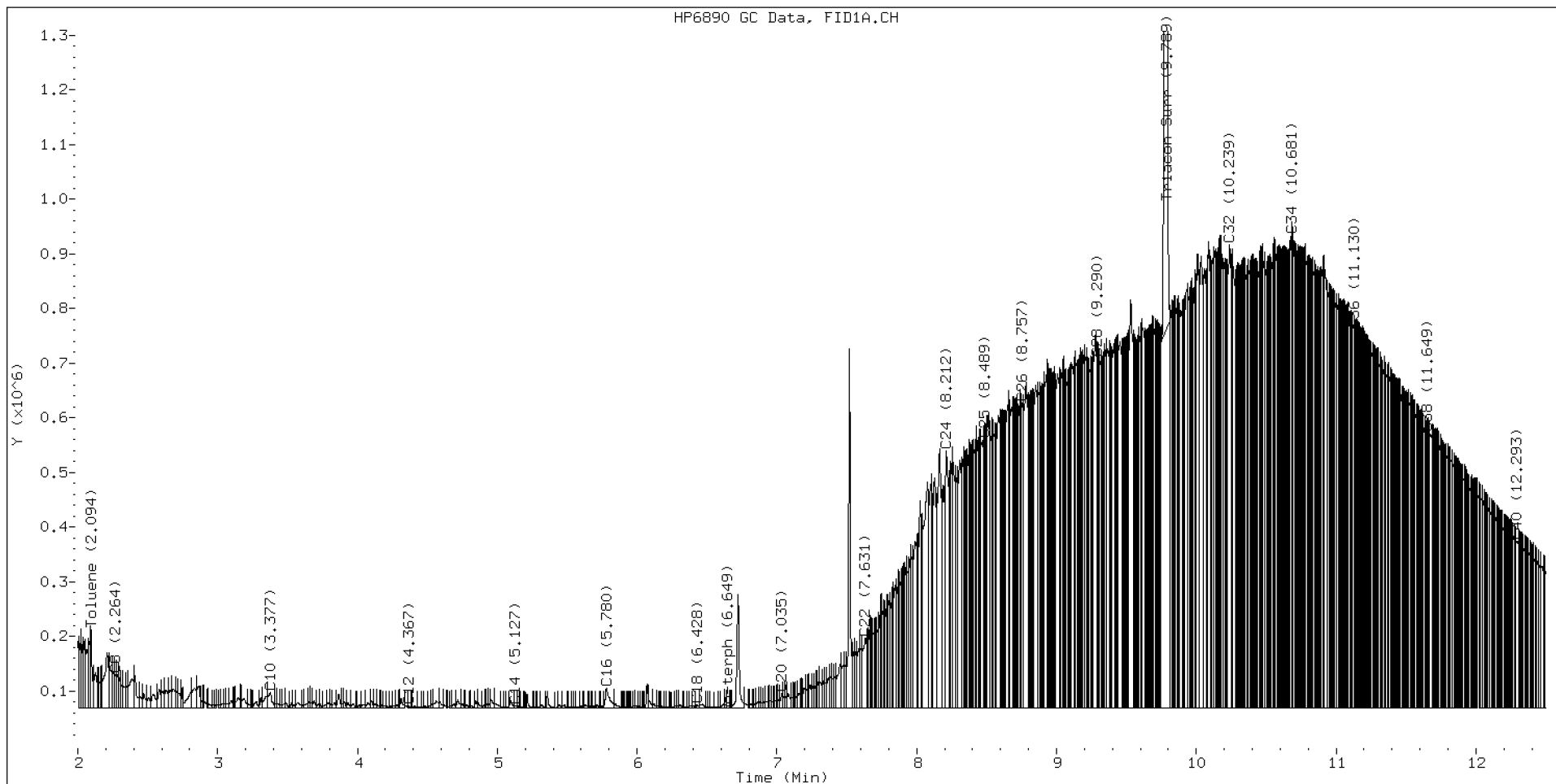
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.264	0.002	61386	42202	WATPHD	(C12-C24)	14006466	87.9
C10	3.377	0.004	28038	52387	WATPHM	(C24-C38)	135195593	1019.3
C12	4.367	0.020	3146	3151	AK102	(C10-C25)	18822986	96.3
C14	5.127	-0.003	4143	4458	AK103	(C25-C36)	113030798	1130.6
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

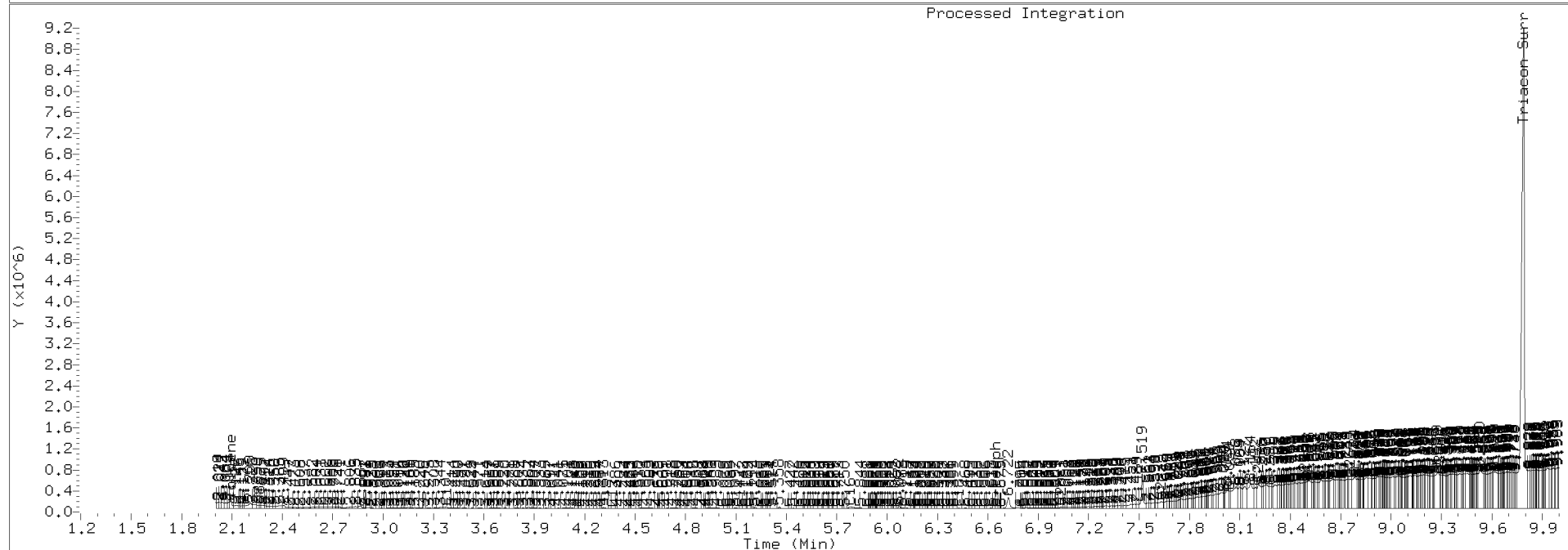
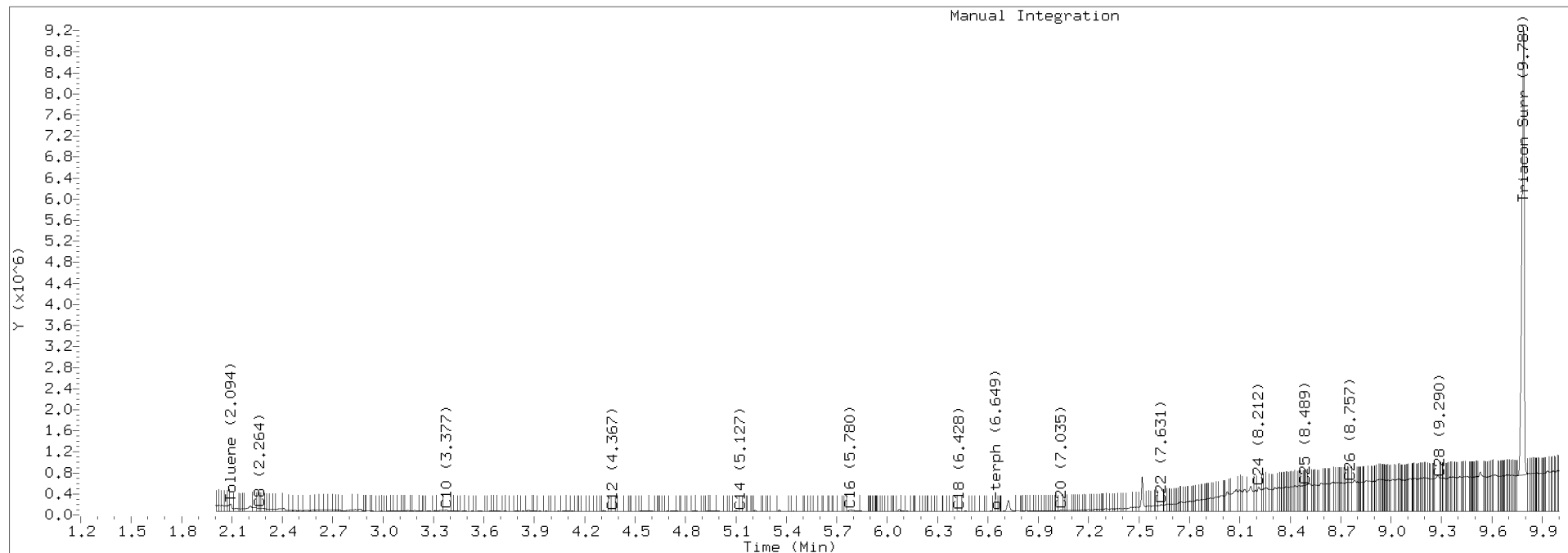
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	177979.9	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	132632.1	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	99976.4	25-OCT-2019
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	6149.8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





Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION
NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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

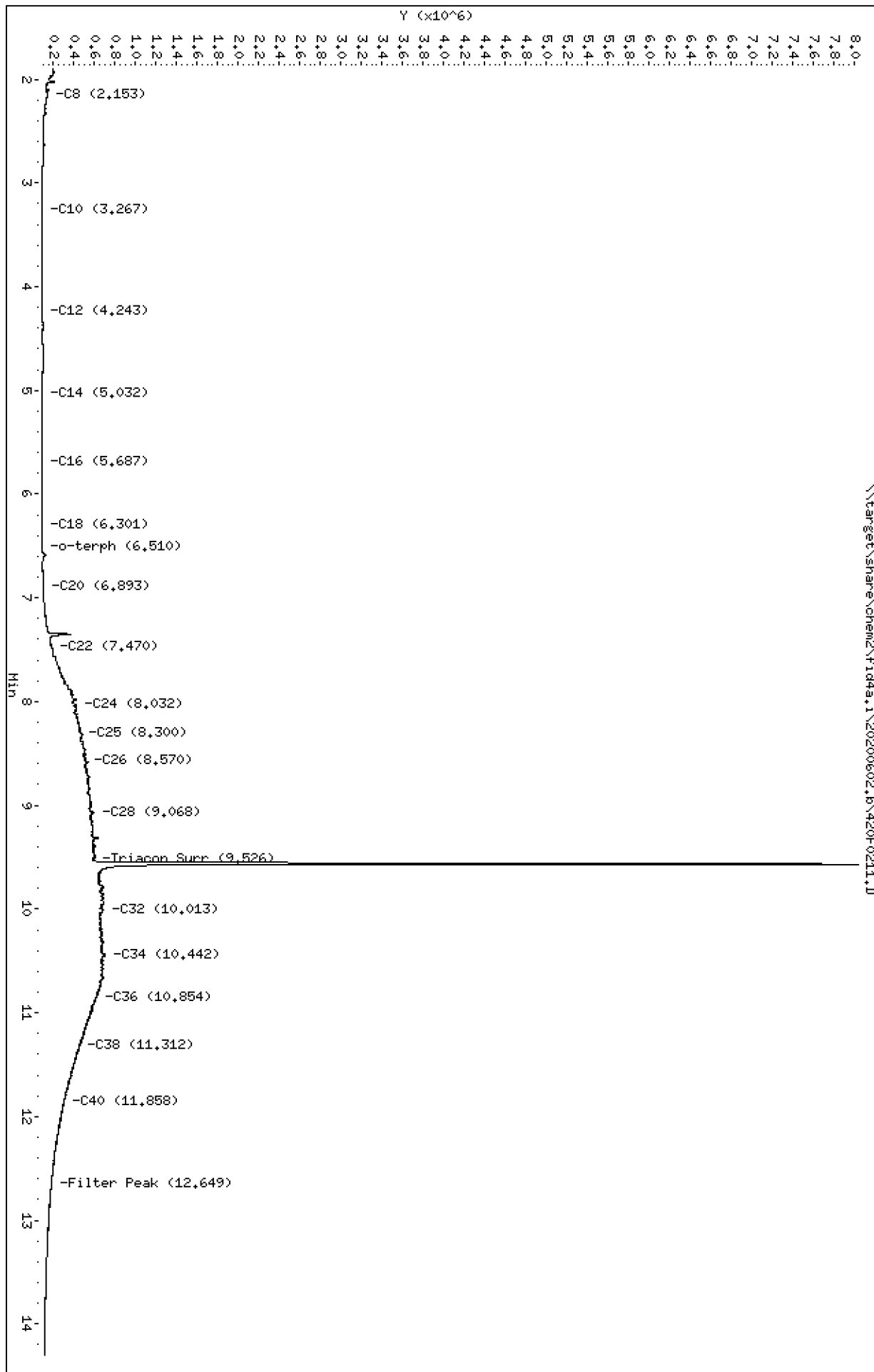
Column phase: RTX-1

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

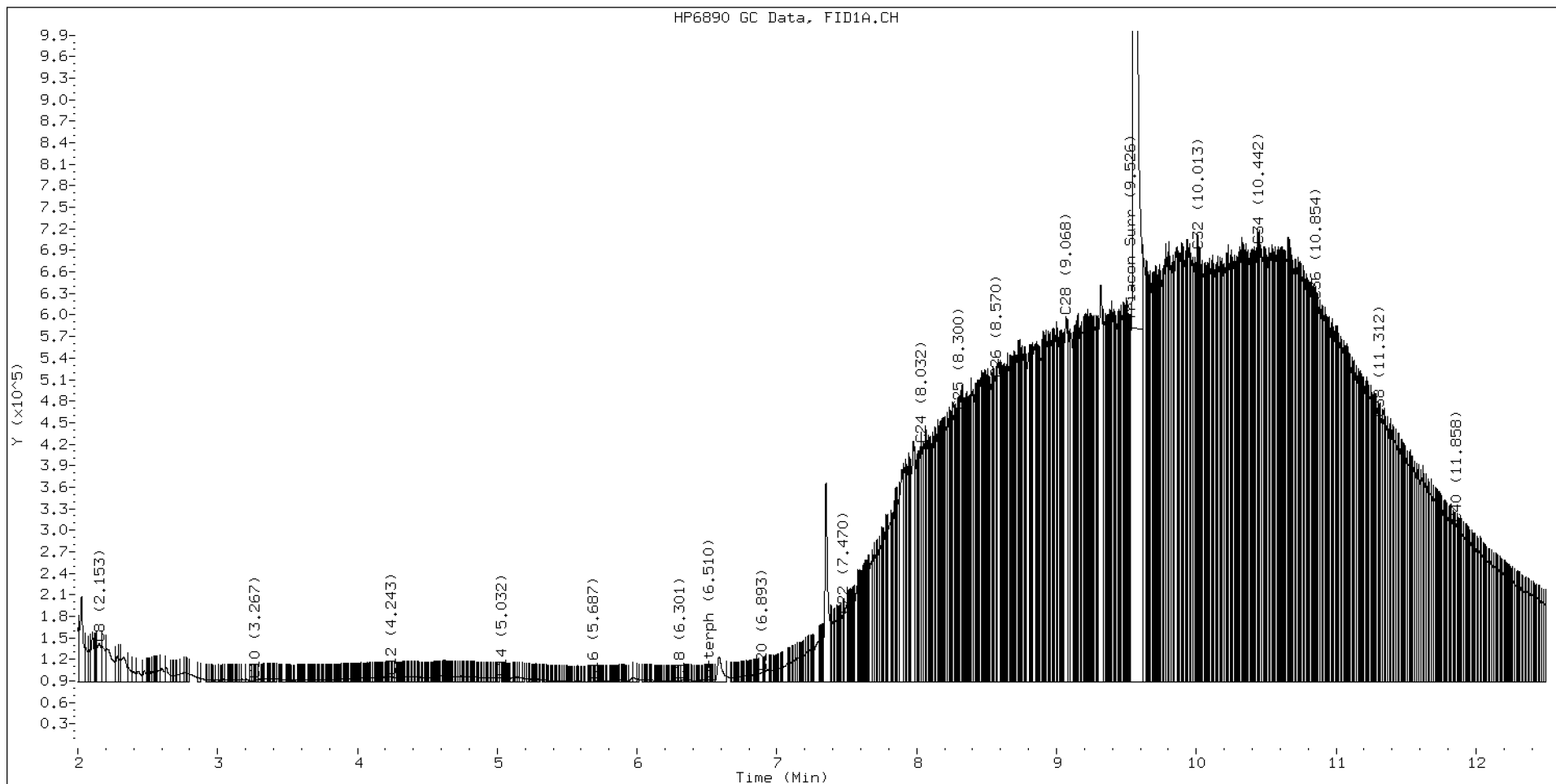
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	2.153	-0.003	53793	112352	WATPHD	(C12-C24)	10130617	63.6
C10	3.267	-0.001	3184	1798	WATPHM	(C24-C38)	96339891	952.3
C12	4.243	-0.001	6309	3433	AK102	(C10-C25)	13696411	70.1
C14	5.032	0.010	5041	1965	AK103	(C25-C36)	81704578	1116.1
C16	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

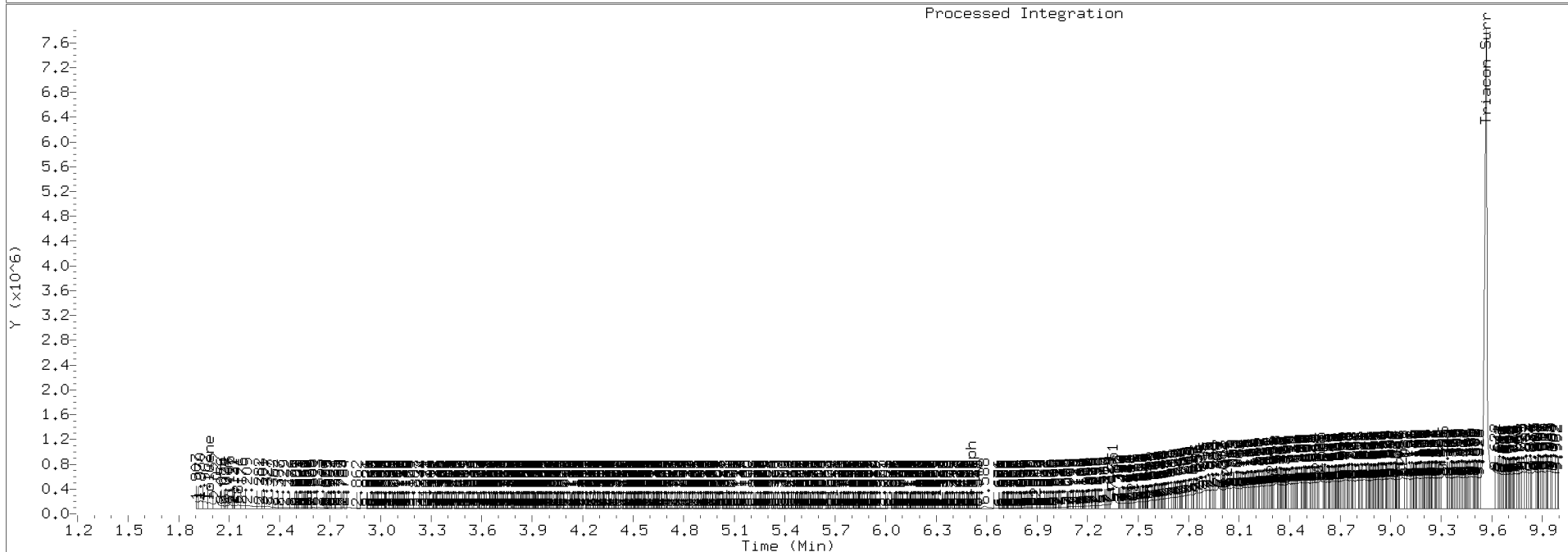
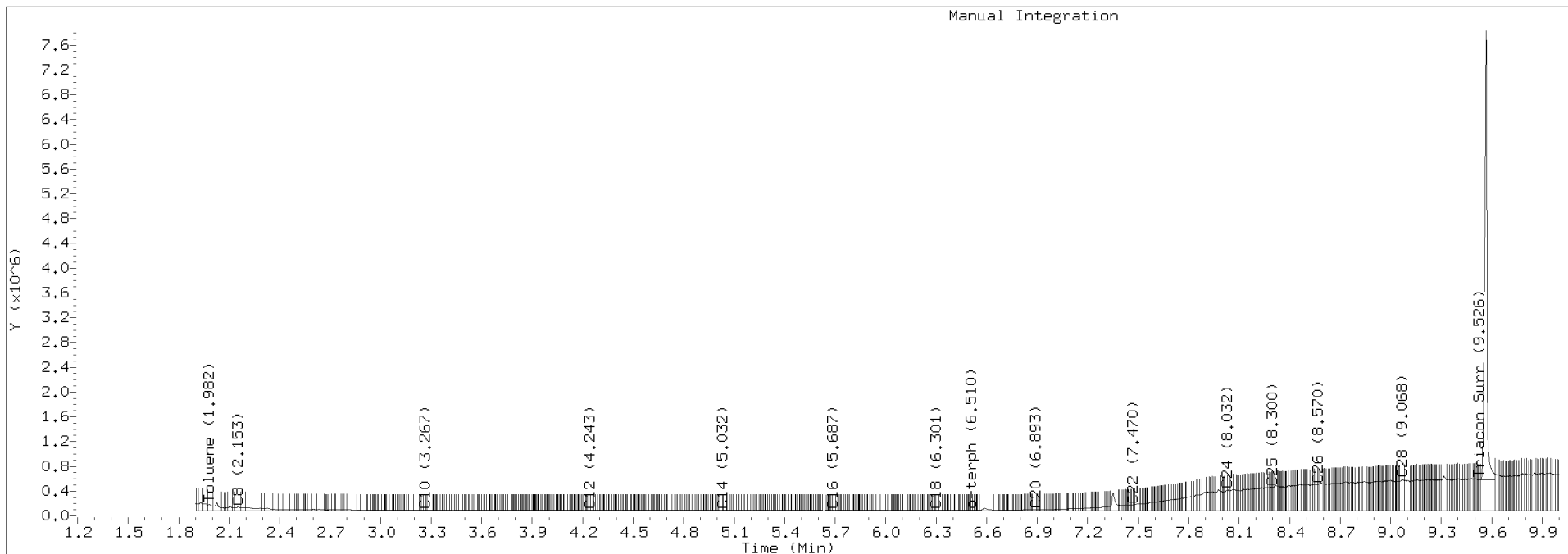
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	167898.6	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	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





INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420J0205.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIJ0042</u>	Injection Date: <u>10/02/20</u>
Lab Sample ID: <u>SIJ0042-ICV1</u>	Injection Time: <u>10:02</u>
Sequence Name: <u>DIESEL ICV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	452	159336.7000	144138.7000		-9.5	+/-15
o-Terphenyl	A	90.000	80.6	204701.9000	183310.3000		-10.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201002,b\420J0205.D
Date : 02-OCT-2020 10:02

Client ID:

Sample Info: SEQ-ICV1

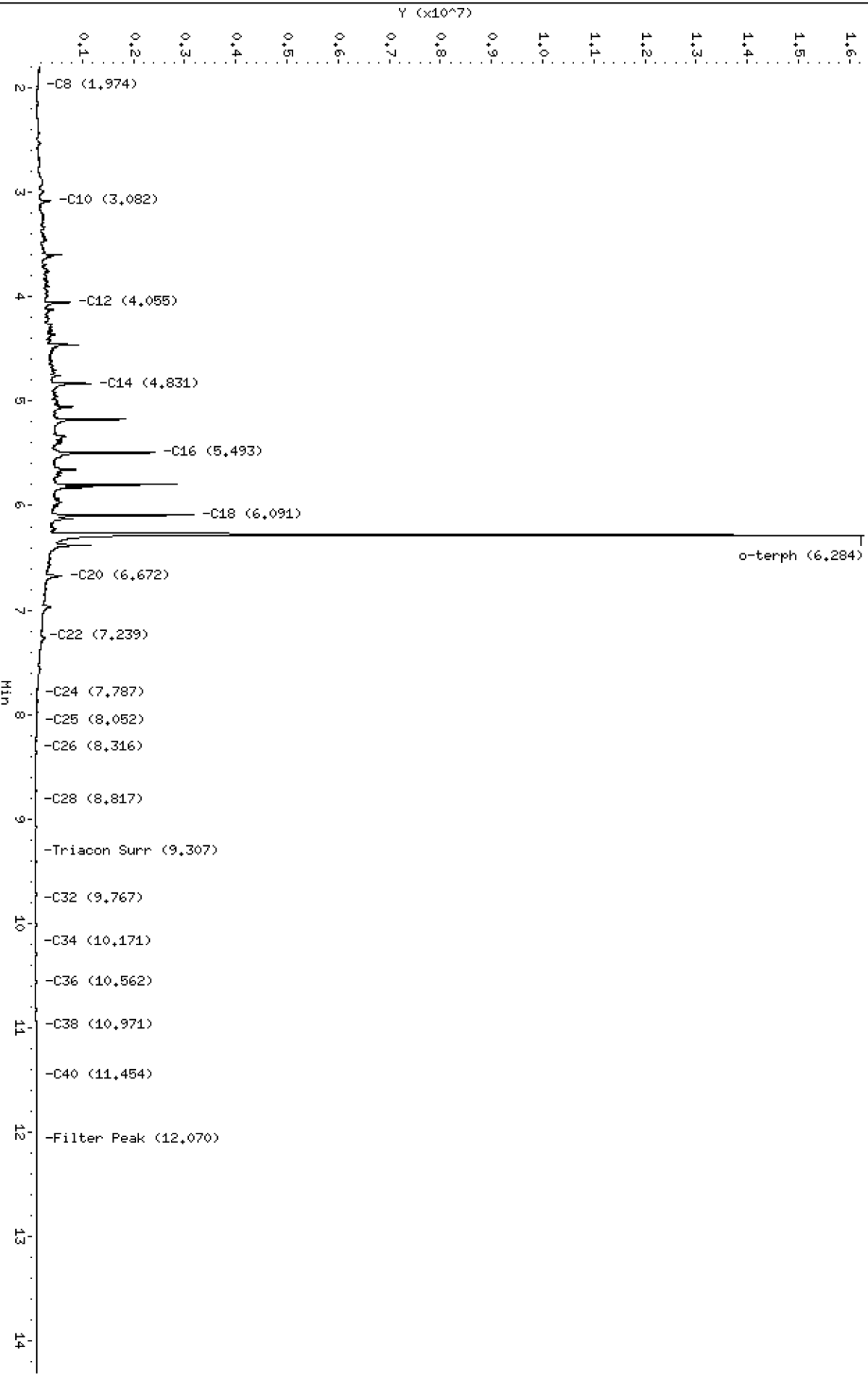
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

\\target\share\chem2\fid4a,1\20201002,b\420J0205.D



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201002.b/420J0205.D
Method: 20201002.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/03/2020
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: 02-OCT-2020 10:02
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

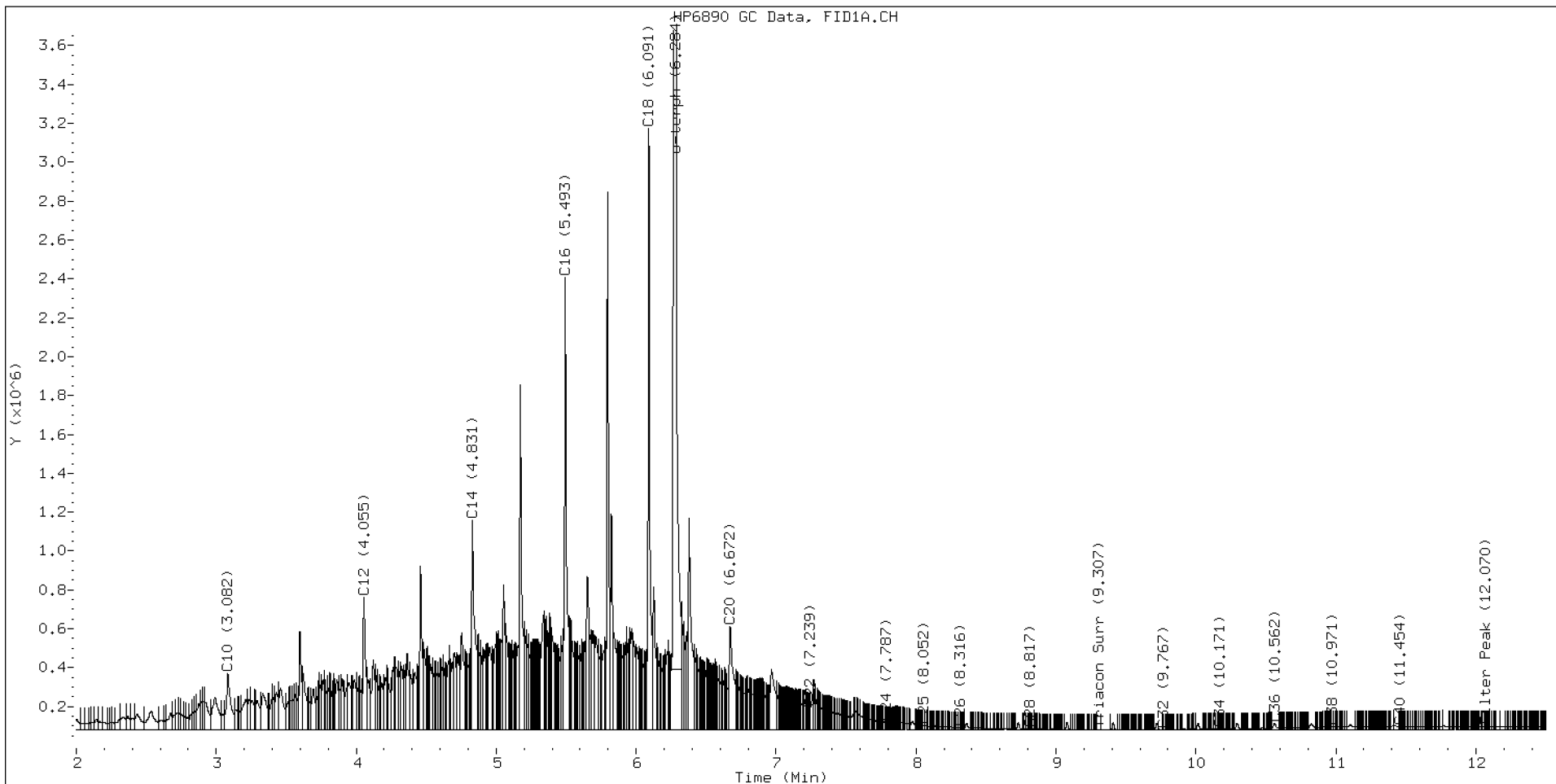
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.974	-0.011	44420	46374	WATPHD	(C12-C24)	72069347	452.3
C10	3.082	0.011	287360	631242	WATPHM	(C24-C38)	1617994	16.0
C12	4.055	0.003	678900	874723	AK102	(C10-C25)	83740998	428.4
C14	4.831	-0.020	1078112	1629048	AK103	(C25-C36)	975808	13.3
C16	5.493	-0.006	2325149	2519576	OR.DIES	(C10-C28)	84261604	429.9
C18	6.091	-0.001	3094596	2776409				
C20	6.672	-0.001	528691	1137793	JET-A	(C10-C18)	64134578	386.7
C22	7.239	0.003	112746	27707				
C24	7.787	0.003	38433	13199				
C25	8.052	-0.003	20425	12966				
C26	8.316	-0.001	10545	4130				
C28	8.817	-0.003	2938	1249				
C32	9.767	0.014	1384	800				
C34	10.171	-0.006	4006	1588				
Filter Peak	12.070	0.001	15527	5422	CREOSOT	(C12-C22)	69884769	1235.9
C36	10.562	-0.015	33354	51203				
C38	10.971	-0.009	14233	16927				
C40	11.454	-0.001	16193	4850				
o-terph	6.284	-0.001	15887466	16497934				
Triacon Surr	9.307	-0.012	1737	1458	NAS DIES	(C10-C24)	83398872	427.4

Range Times: NW Diesel(4.052 - 7.785) AK102(3.07 - 8.05) Jet A(3.07 - 6.09)
NW M.Oil(7.78 - 10.98) AK103(8.05 - 10.58) OR Diesel(3.07 - 8.82)

Surrogate	Area	Amount
o-Terphenyl	16497934	80.6 M
Triacontane	1458	0.0

M Indicates the peak was manually integrated

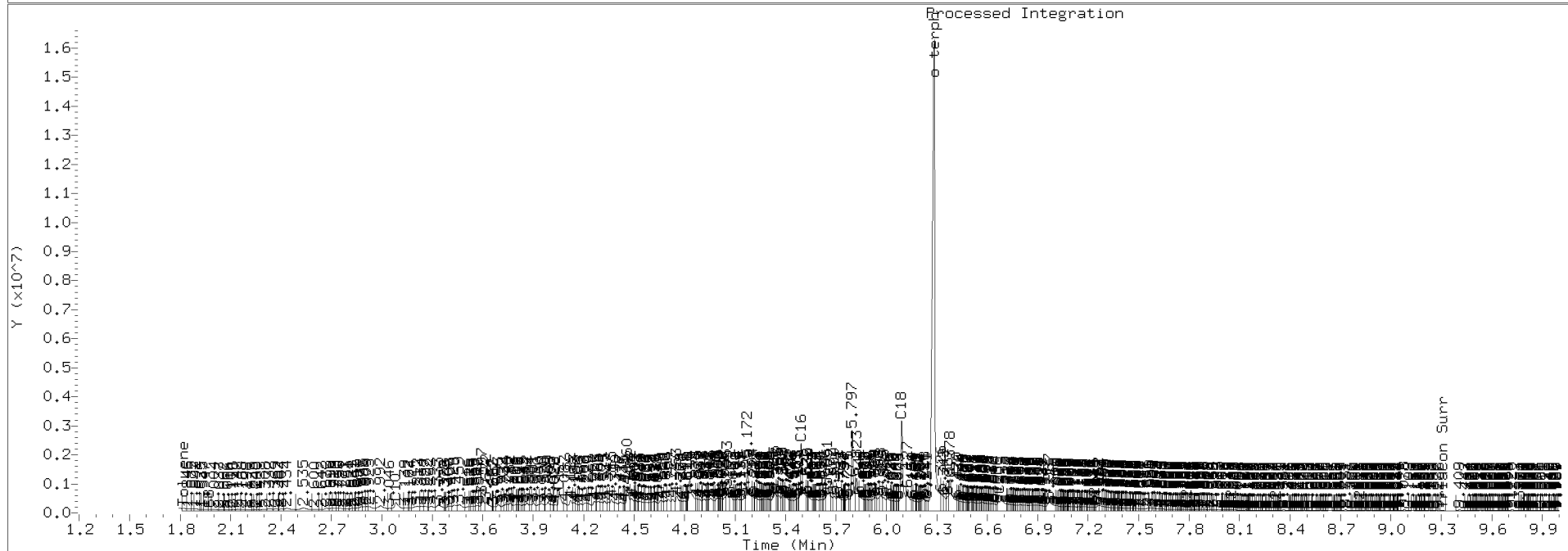
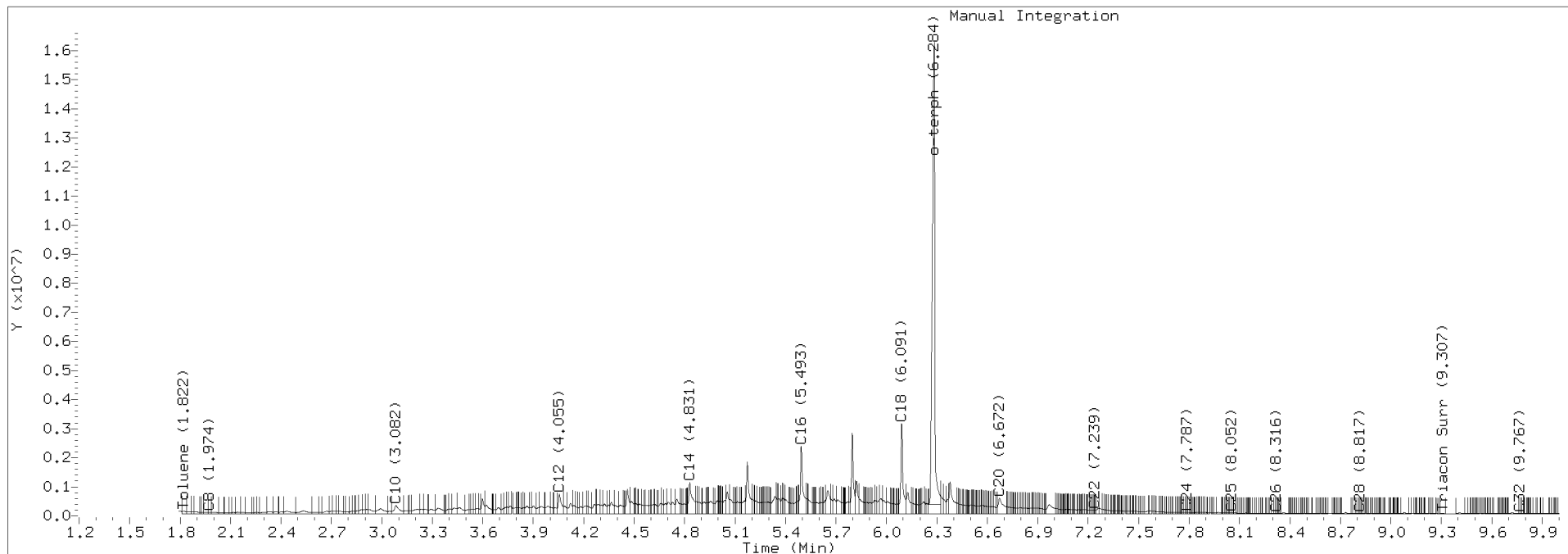
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	56546.9	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201002.b/420J0205.D Injection: 02-OCT-2020 10:02

Lab ID:SEQ-ICV1





INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>DA00022</u>
Lab File ID:	<u>420J0206.D</u>	Calibration Date:	<u>10/25/2019</u>
Sequence:	<u>SIJ0042</u>	Injection Date:	<u>10/02/20</u>
Lab Sample ID:	<u>SIJ0042-ICV2</u>	Injection Time:	<u>10:22</u>
Sequence Name:	<u>MOIL ICV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	1000	101166.0000	101326.9000		0.2	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201002,b\420J0206.D

Date : 02-OCT-2020 10:22

Client ID:

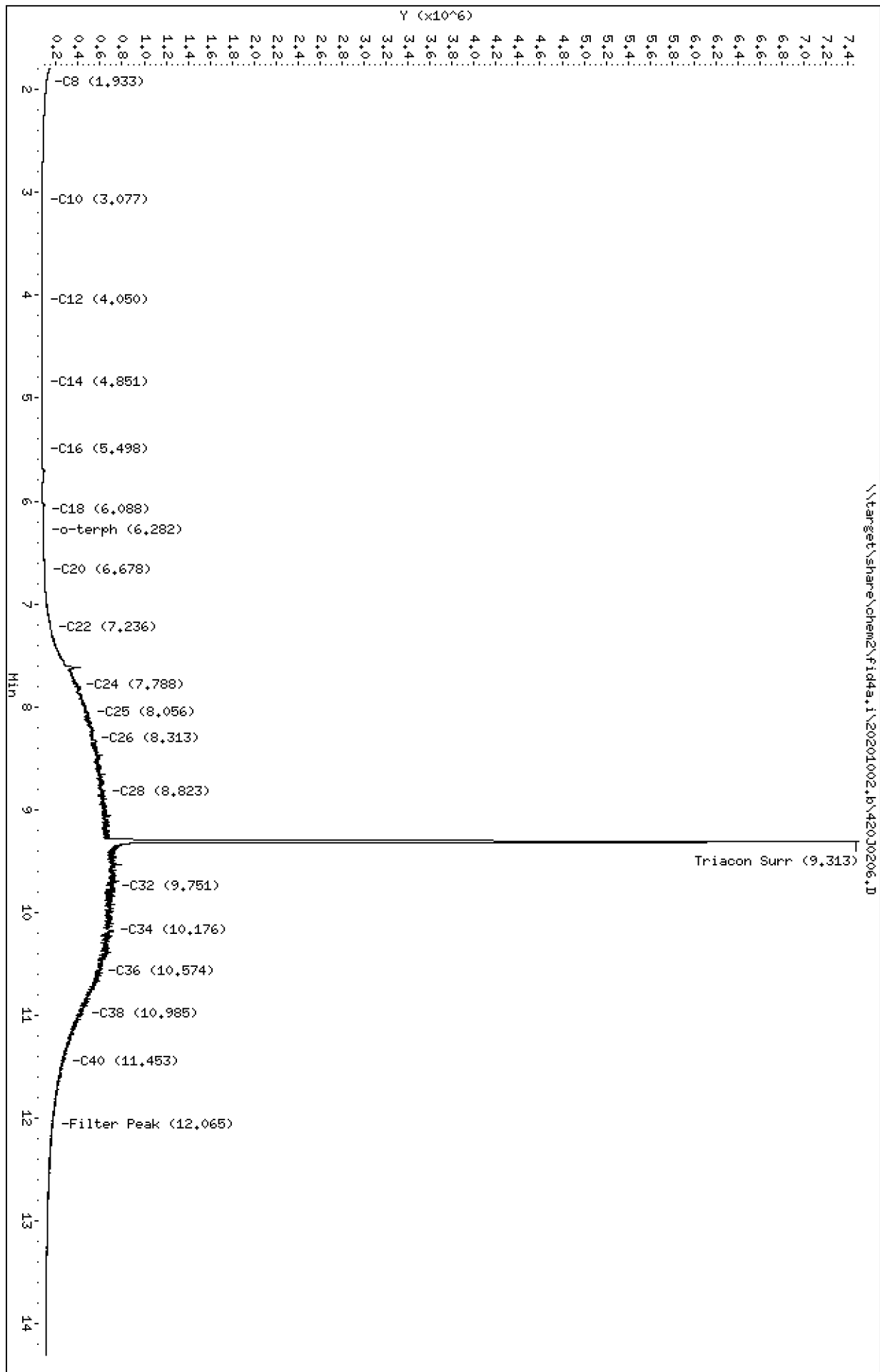
Sample Info: SEQ-ICV2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201002.b/420J0206.D
Method: 20201002.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/03/2020
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: 02-OCT-2020 10:22
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

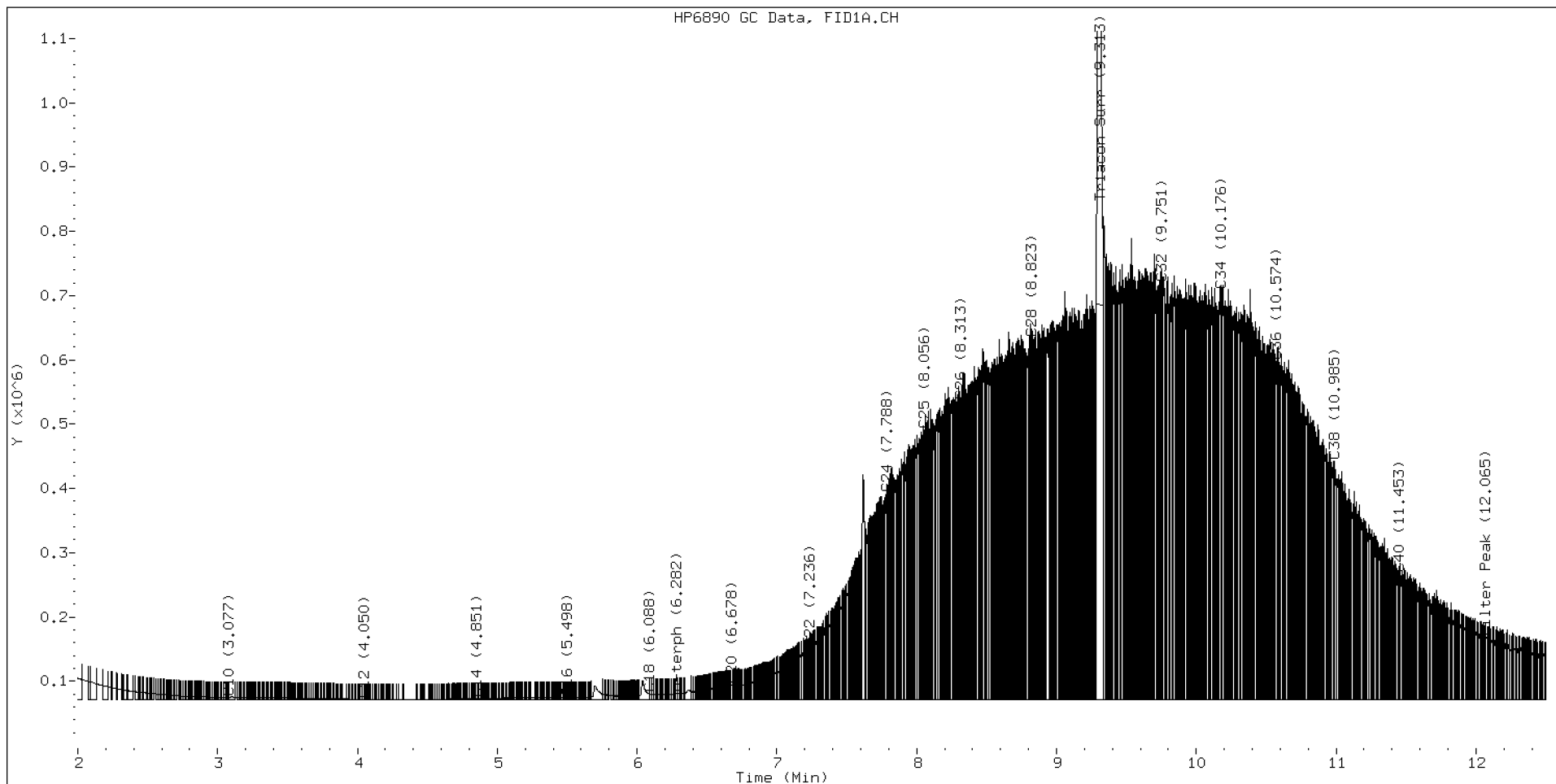
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.933	-0.053	40170	217629	WATPHD	(C12-C24)	9338175	58.6
C10	3.077	0.005	3116	1235	WATPHM	(C24-C38)	101326864	1001.6
C12	4.050	-0.002	739	300	AK102	(C10-C25)	12980414	66.4
C14	4.851	0.000	1691	875	AK103	(C25-C36)	87854436	1200.1
C16	5.498	-0.001	3965	1775	OR.DIES	(C10-C28)	38104832	194.4
C18	6.088	-0.004	9124	7454				
C20	6.678	0.004	23587	21755	JET-A	(C10-C18)	531068	3.2
C22	7.236	-0.000	78929	19568				
C24	7.788	0.003	320203	157142				
C25	8.056	0.001	419327	203040				
C26	8.313	-0.003	465120	205807				
C28	8.823	0.002	561848	139100				
C32	9.751	-0.002	648448	161534				
C34	10.176	-0.000	636189	188508				
Filter Peak	12.065	-0.004	95356	47076	CREOSOT	(C12-C22)	2490372	44.0
C36	10.574	-0.003	526198	280237				
C38	10.985	0.005	371706	208774				
C40	11.453	-0.002	195991	143228				
o-terph	6.282	-0.003	9393	6016				
Triacon Surr	9.313	-0.007	6811245	6463450	NAS DIES	(C10-C24)	9467683	48.5

Range Times: NW Diesel(4.052 - 7.785) AK102(3.07 - 8.05) Jet A(3.07 - 6.09)
NW M.Oil(7.78 - 10.98) AK103(8.05 - 10.58) OR Diesel(3.07 - 8.82)

Surrogate	Area	Amount
o-Terphenyl	6016	0.0
Triacontane	6463450	43.6 M

M Indicates the peak was manually integrated

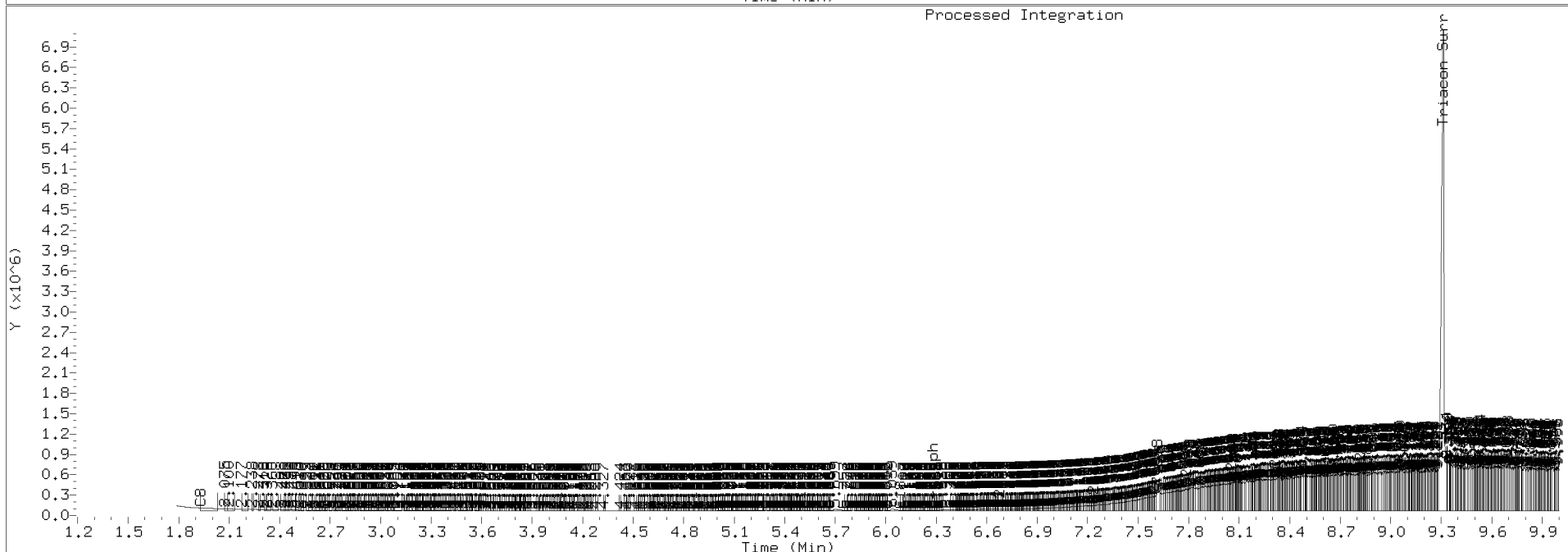
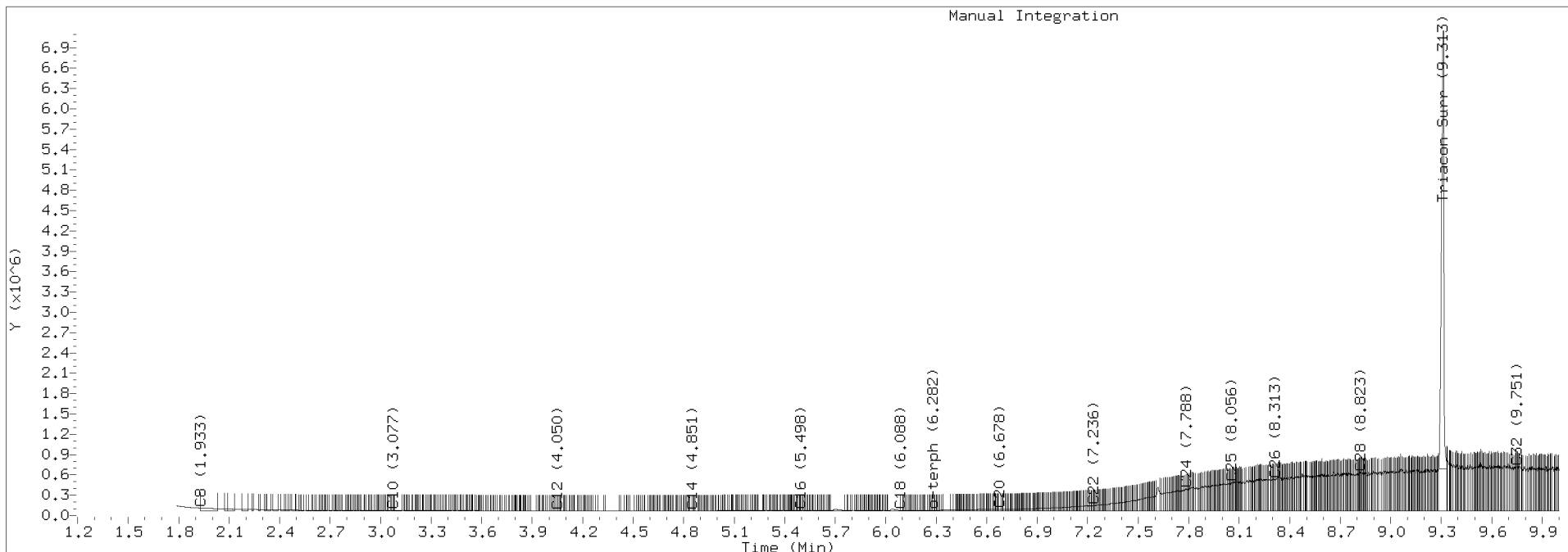
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	56546.9	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201002.b/420J0206.D Injection: 02-OCT-2020 10:22

Lab ID:SEQ-ICV2





INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420J0213.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIJ0042</u>	Injection Date: <u>10/02/20</u>
Lab Sample ID: <u>SIJ0042-ICV3</u>	Injection Time: <u>12:46</u>
Sequence Name: <u>A/S CREOSOTE ICV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
o-Terphenyl	A	90.000	85.2	204701.9000	193728.7000		-5.3	+/-15

* Values outside of QC limits

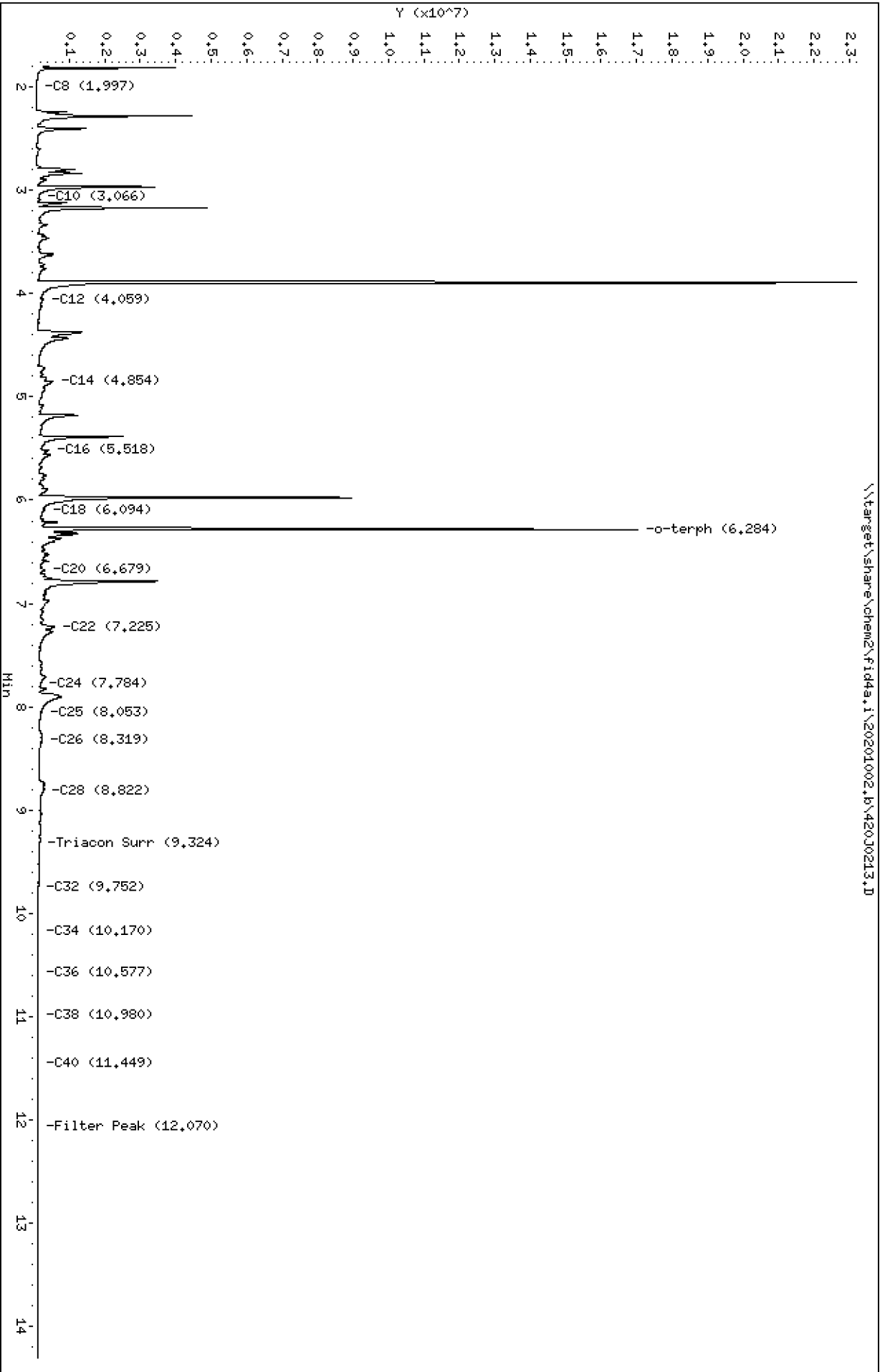
Data File: \\target\share\chem2\fid4a,1\20201002,b\420J0213.D
Date: 02-OCT-2020 12:46
Client ID:
Sample Info: SEQ-ICV3

Instrument: fid4a,1

Page 1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201002.b/420J0213.D
Method: 20201002.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/03/2020
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: 02-OCT-2020 12:46
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

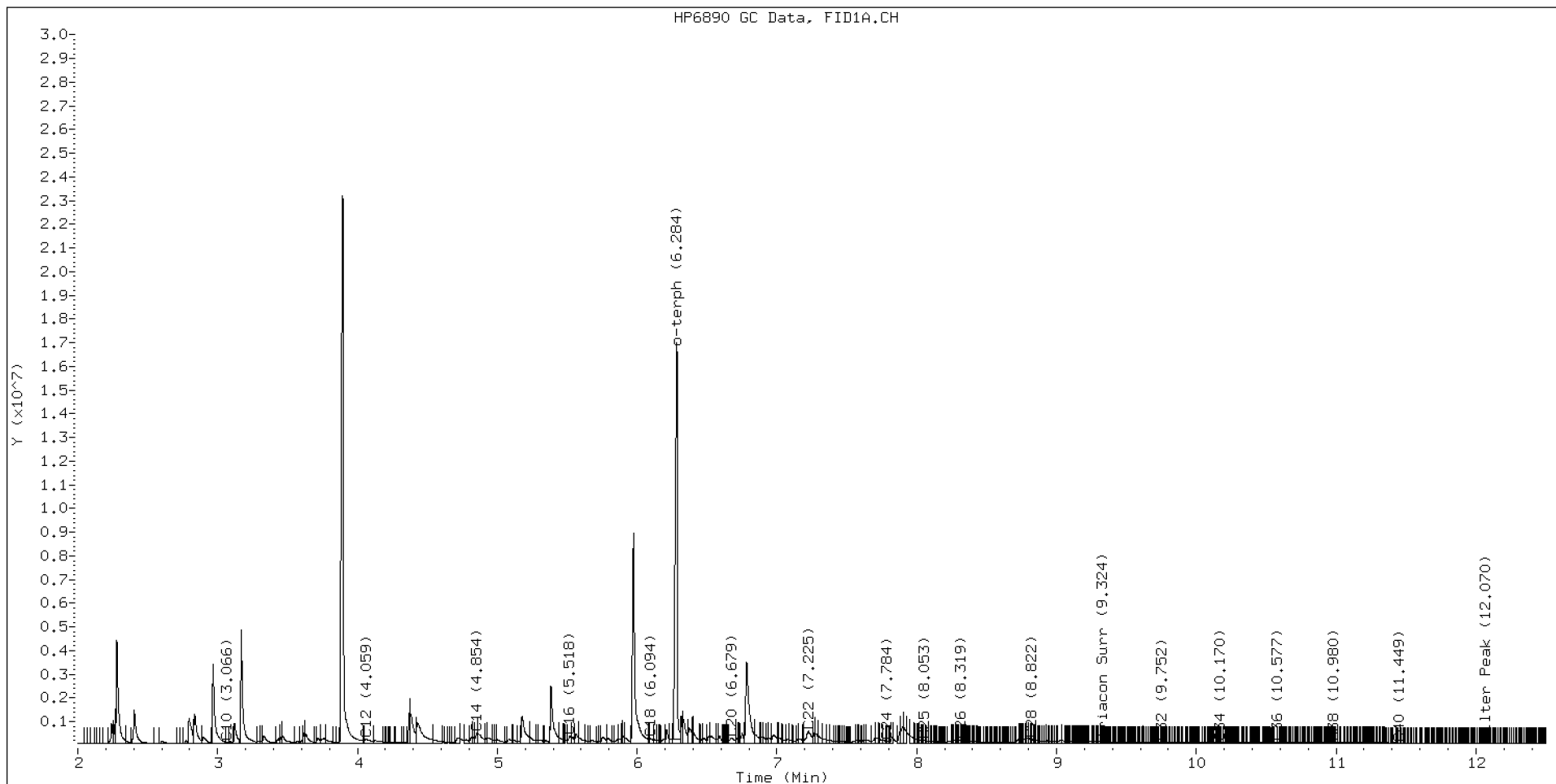
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.997	0.011	15231	44107	WATPHD	(C12-C24)	64142858	402.6
C10	3.066	-0.005	73828	66824	WATPHM	(C24-C38)	16752657	165.6
C12	4.059	0.007	208812	562762	AK102	(C10-C25)	104140417	532.7
C14	4.854	0.004	450395	458484	AK103	(C25-C36)	12683259	173.3
C16	5.518	0.018	336617	450507	OR.DIES	(C10-C28)	109859015	560.5
C18	6.094	0.002	214777	260250				
C20	6.679	0.005	247699	513028	JET-A	(C10-C18)	73860659	445.3
C22	7.225	-0.011	522649	1309051				
C24	7.784	-0.001	107515	42595				
C25	8.053	-0.002	136950	93608				
C26	8.319	0.002	144951	78122				
C28	8.822	0.001	186420	197034				
C32	9.752	-0.001	56122	19503				
C34	10.170	-0.006	43643	36590				
Filter Peak	12.070	0.001	32538	21116	CREOSOT	(C12-C22)	59740201	1056.5
C36	10.577	-0.000	42223	44767				
C38	10.980	0.001	44736	15566				
C40	11.449	-0.006	37967	30195				
o-terph	6.284	-0.000	16761119	17435581				
Triacon Surr	9.324	0.005	92969	45458	NAS DIES	(C10-C24)	101124086	518.2

Range Times: NW Diesel(4.052 - 7.785) AK102(3.07 - 8.05) Jet A(3.07 - 6.09)
NW M.Oil(7.78 - 10.98) AK103(8.05 - 10.58) OR Diesel(3.07 - 8.82)

Surrogate	Area	Amount
o-Terphenyl	17435581	85.2 M
Triacontane	45458	0.3

M Indicates the peak was manually integrated

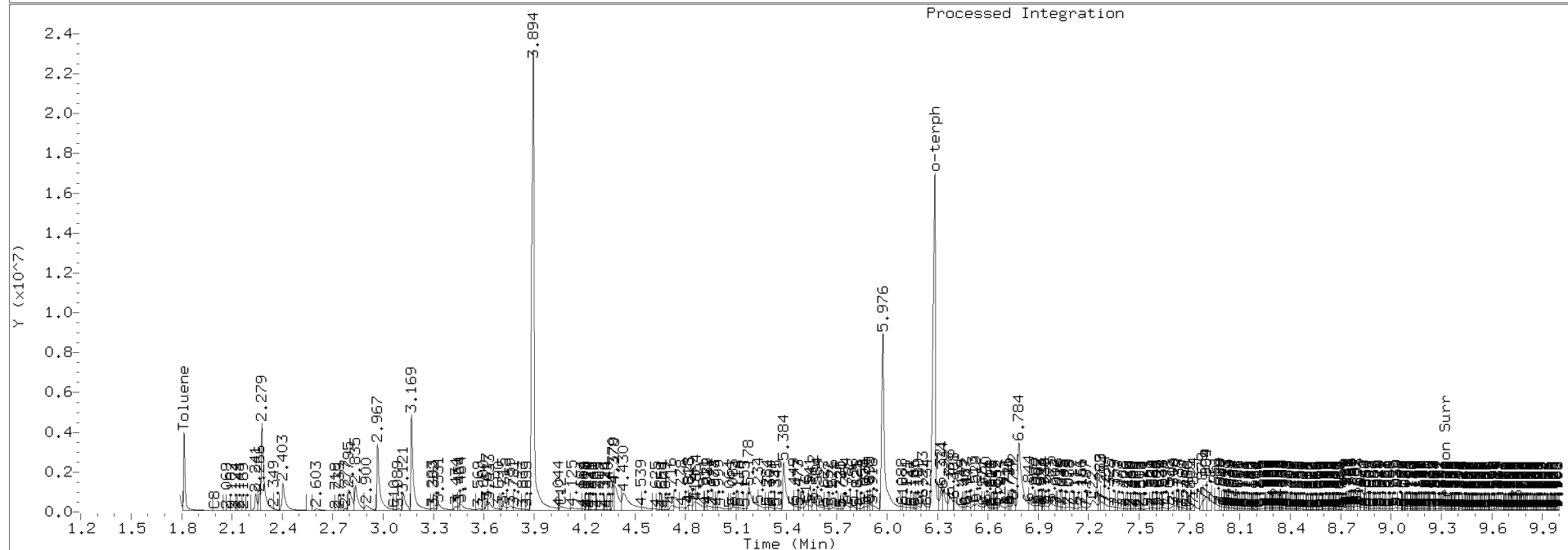
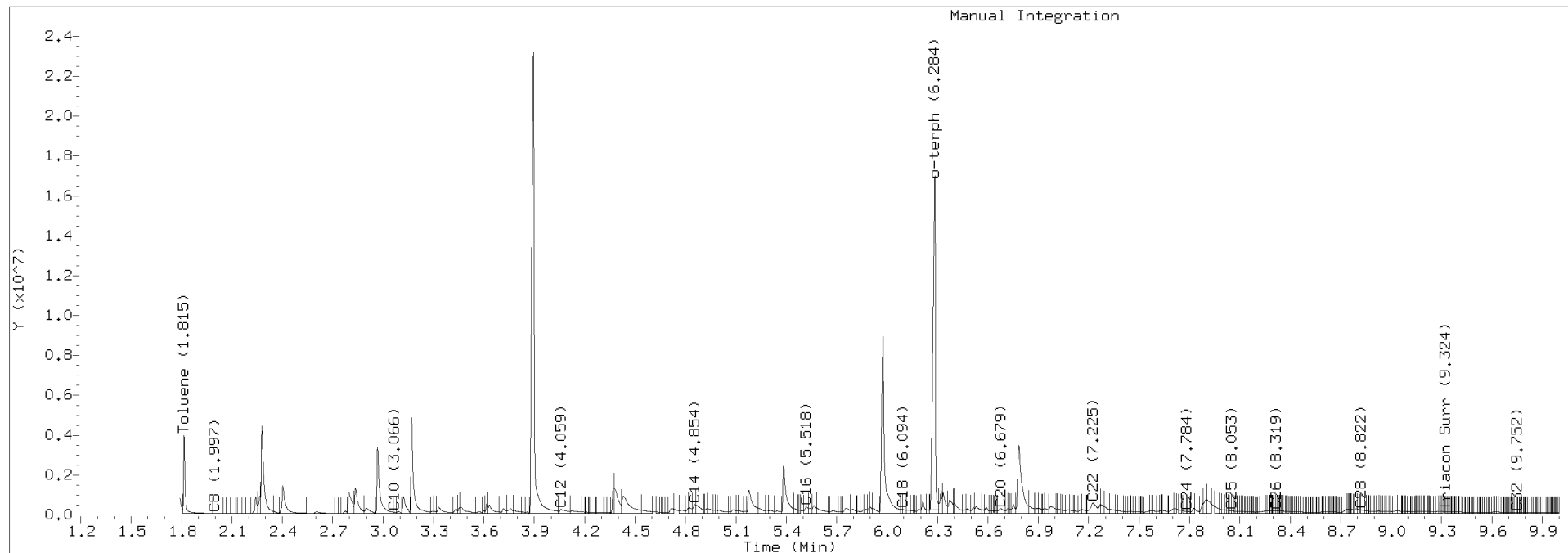
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	56546.9	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201002.b/420J0213.D Injection: 02-OCT-2020 12:46

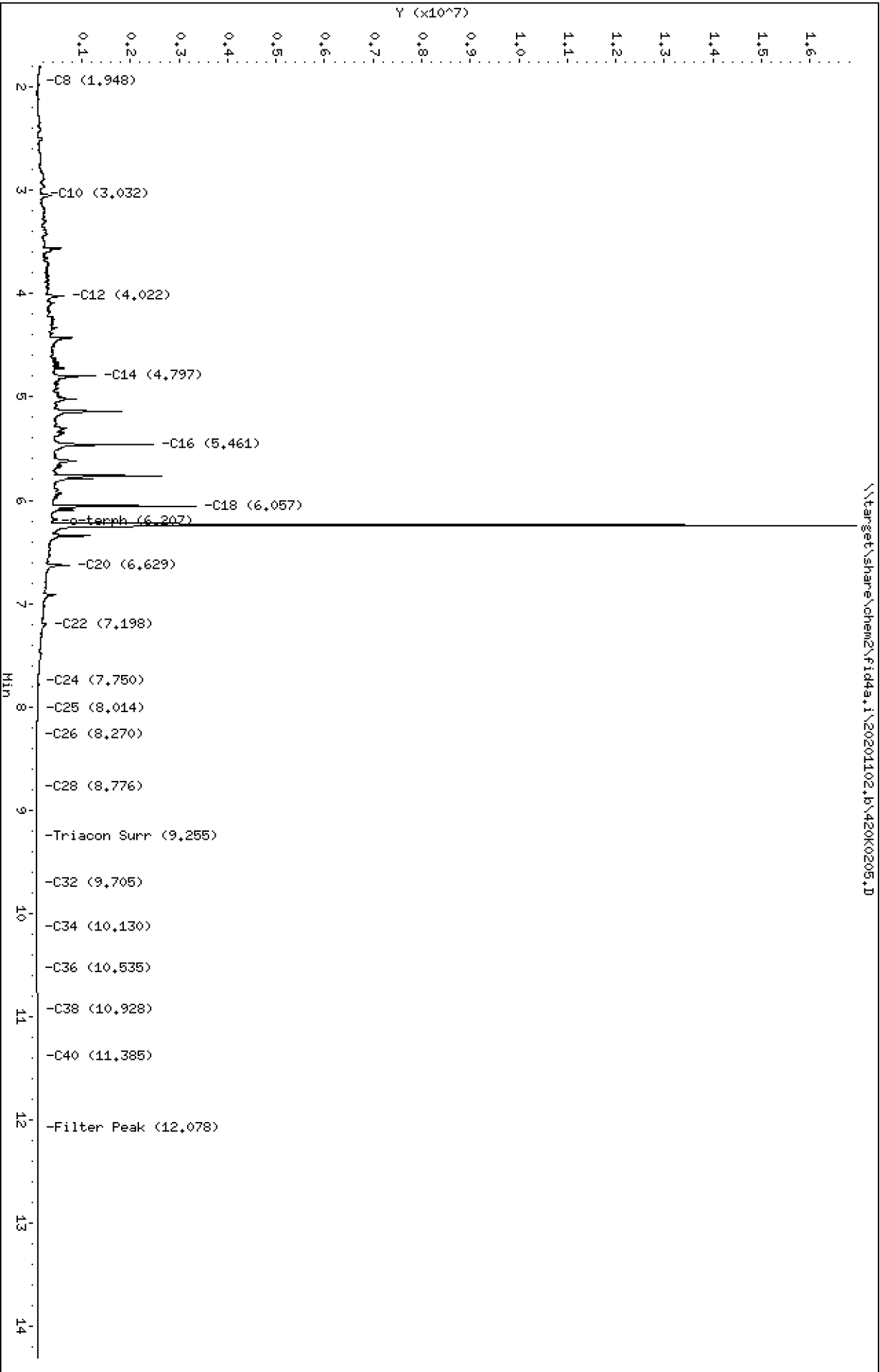
Lab ID:SEQ-ICV3



Data File: \\target\share\chem2\fid4a,1\20201102,b\420k0205.D
Date : 02-NOV-2020 09:50
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: 20201102.b/420K0205.D
Method: 20201102.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/03/2020
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: 02-NOV-2020 09:50
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

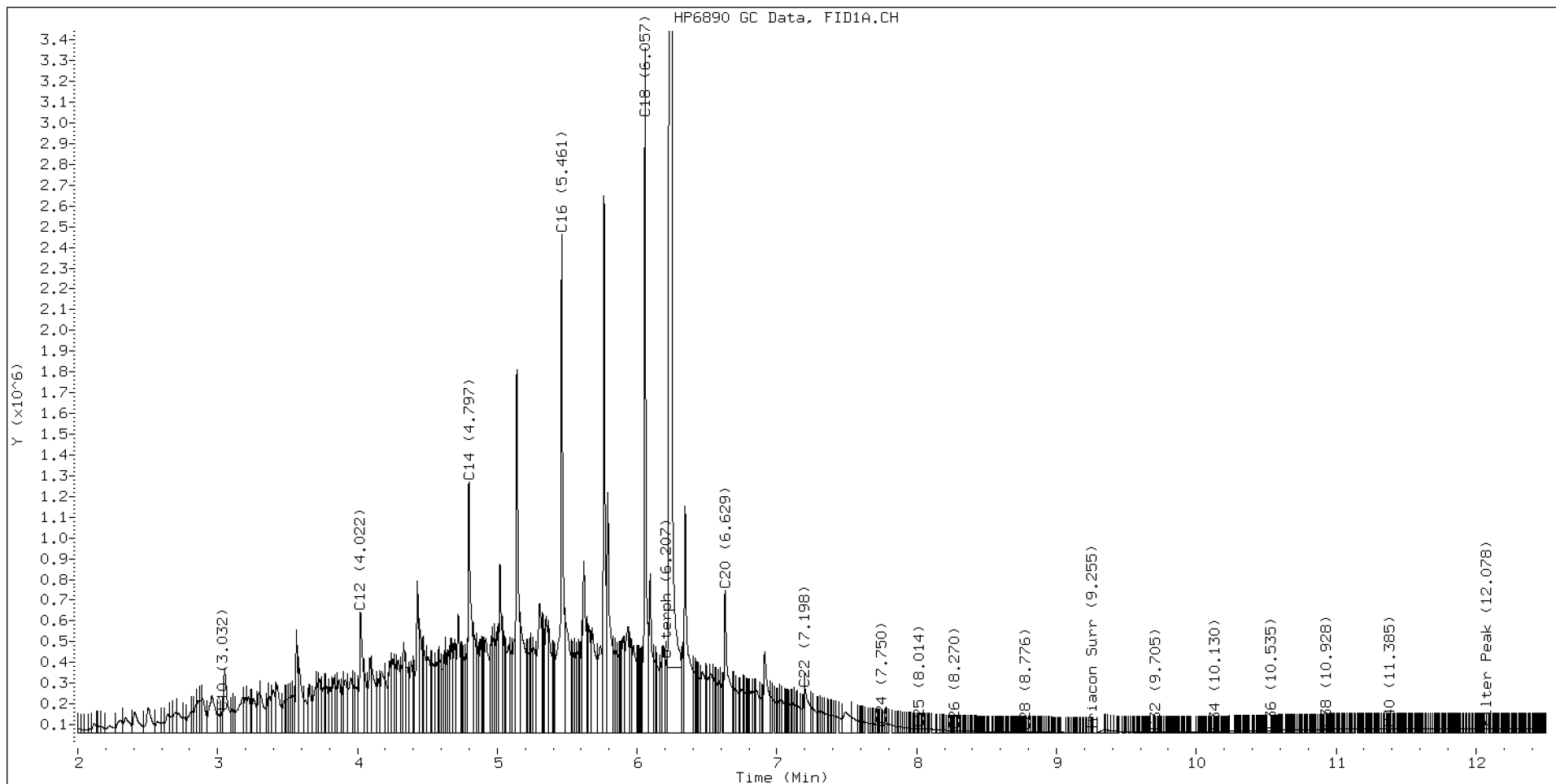
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.948	-0.005	27722	25305	WATPHD	(C12-C24)	73609123	462.0
C10	3.032	-0.000	100254	101191	WATPHM	(C24-C38)	1318446	13.0
C12	4.022	0.005	578386	910528	AK102	(C10-C25)	85995695	439.9
C14	4.797	-0.000	1205590	1792087	AK103	(C25-C36)	768399	10.5
C16	5.461	-0.003	2401105	3334464	OR.DIES	(C10-C28)	86376174	440.7
C18	6.057	0.000	3296857	2927279				
C20	6.629	0.000	687131	1352522	JET-A	(C10-C18)	67842897	409.1
C22	7.198	0.005	211338	187473				
C24	7.750	0.007	34186	5119				
C25	8.014	0.003	17661	6138				
C26	8.270	-0.002	8903	10303				
C28	8.776	-0.001	1579	700				
C32	9.705	-0.000	1846	457				
C34	10.130	-0.000	4665	1620				
Filter Peak	12.078	0.002	18811	4691	BUNKERC	(C10-C38)	87100489	2206.3
C36	10.535	0.001	10583	3159				
C38	10.928	-0.003	15959	3185				
C40	11.385	-0.001	18877	6577				
o-terph	6.247	-0.000	16578751	17511064				
Triacon Surr	9.255	-0.024	288	111	NAS DIES	(C10-C24)	85782044	439.6

Range Times: NW Diesel(4.016 - 7.743) AK102(3.03 - 8.01) Jet A(3.03 - 6.06)
NW M.Oil(7.74 - 10.93) AK103(8.01 - 10.53) OR Diesel(3.03 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	17511064	85.5 M
Triacontane	111	0.0

M Indicates the peak was manually integrated

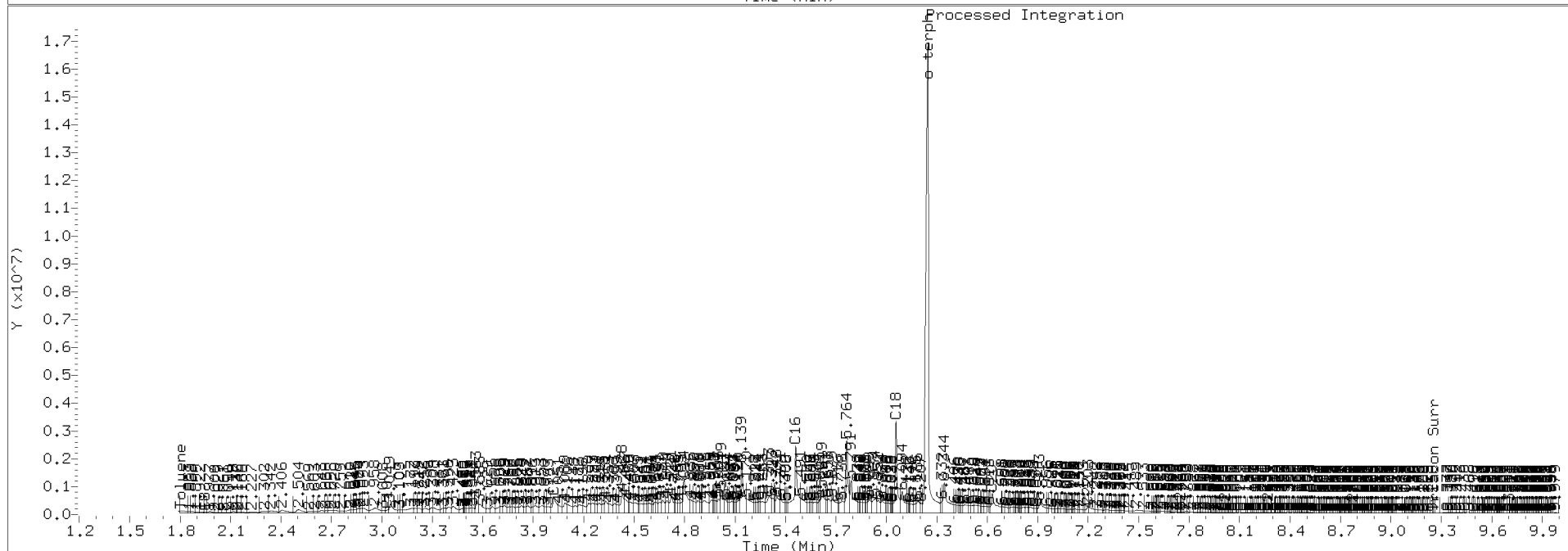
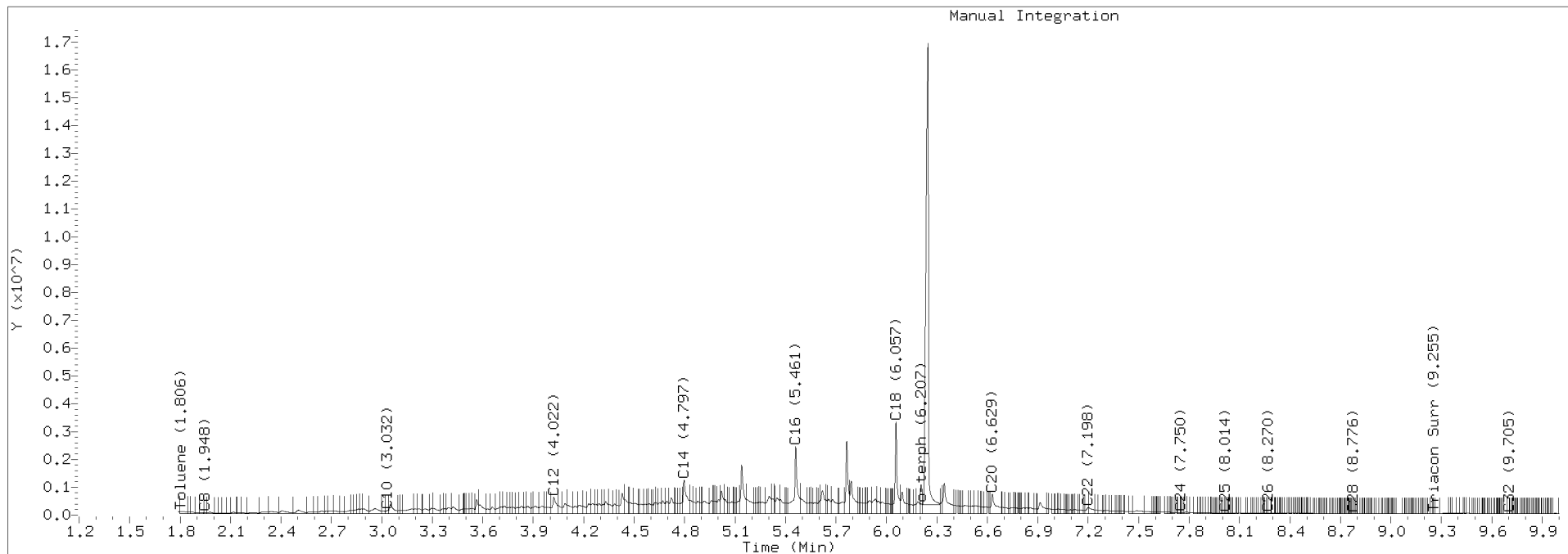
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201102.b/420K0205.D Injection: 02-NOV-2020 09:50

Lab ID:SEQ-ICV1





INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420K0206.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIK0016</u>	Injection Date: <u>11/02/20</u>
Lab Sample ID: <u>SIK0016-ICV2</u>	Injection Time: <u>10:10</u>
Sequence Name: <u>MOIL ICV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	1090	101166.0000	109814.0000		8.6	+/-15

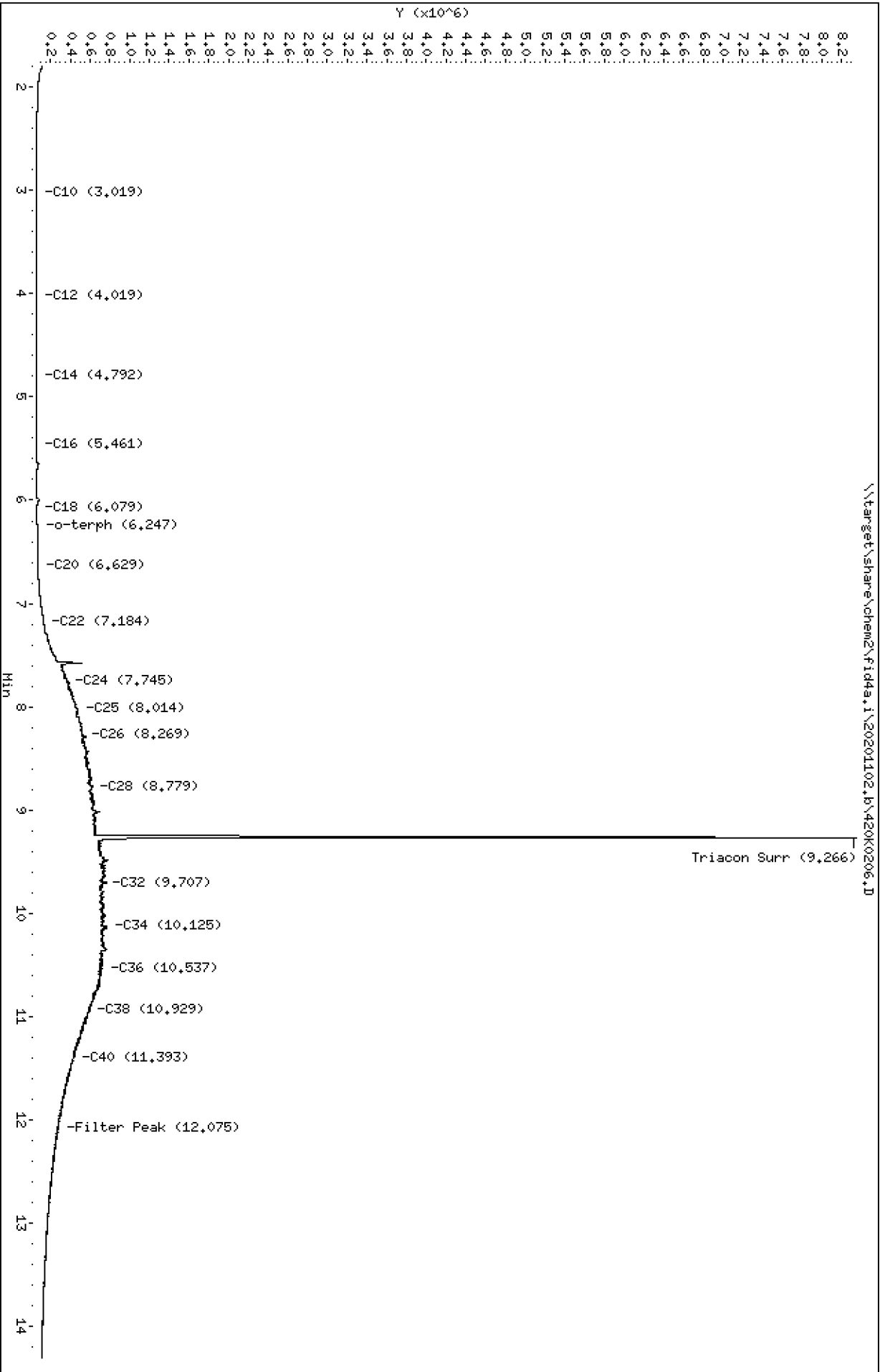
* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201102.b\420K0206.D
Date: 02-NOV-2020 10:10
Client ID:
Sample Info: SEQ-ICV2

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201102.b/420K0206.D
Method: 20201102.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/03/2020
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: 02-NOV-2020 10:10
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

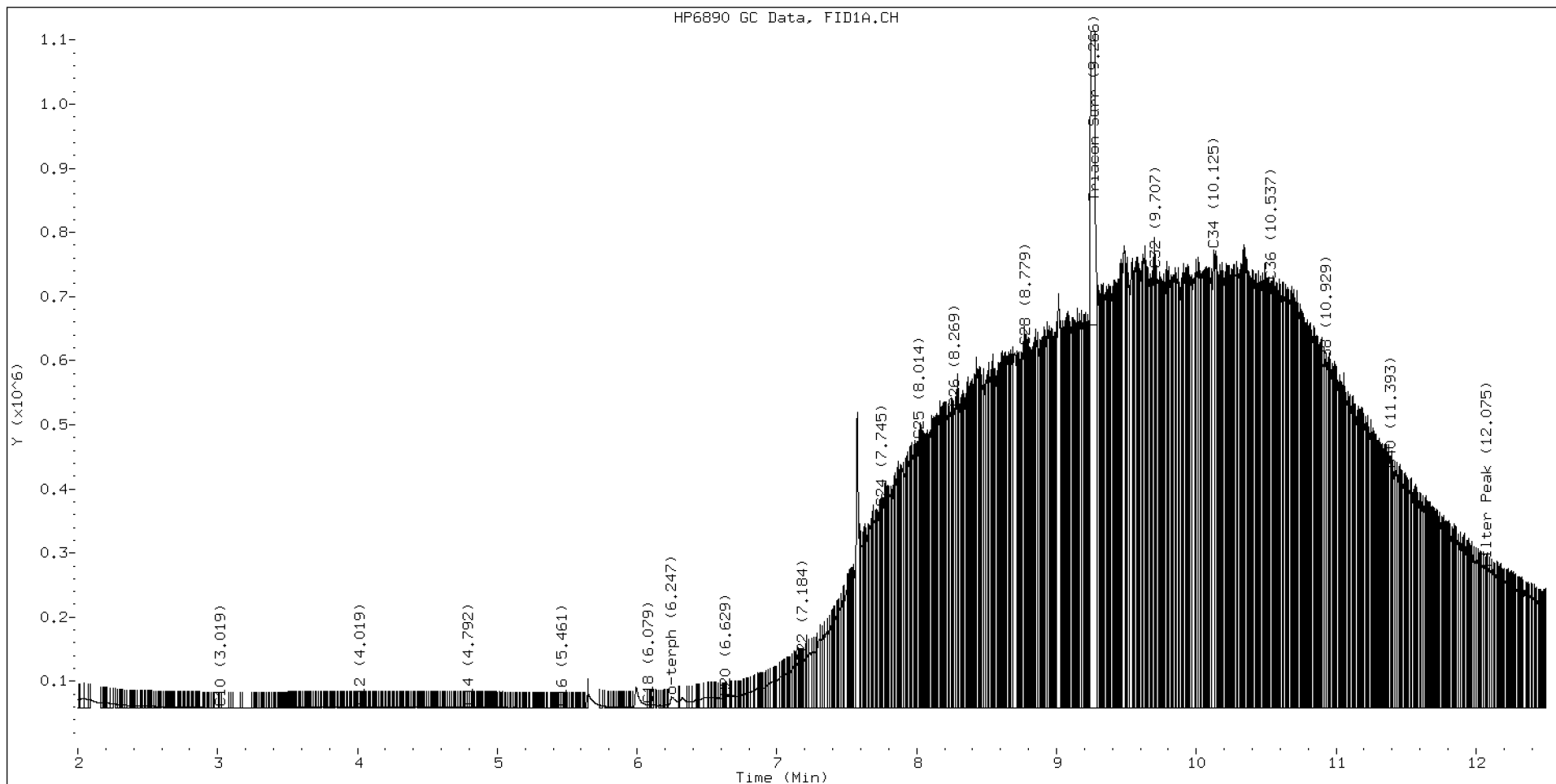
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.904	-0.050	31372	153084	WATPHD	(C12-C24)	8630664	54.2
C10	3.019	-0.013	378	194	WATPHM	(C24-C38)	109814018	1085.5
C12	4.019	0.003	1699	579	AK102	(C10-C25)	12272418	62.8
C14	4.792	-0.005	1288	918	AK103	(C25-C36)	92392635	1262.1
C16	5.461	-0.003	665	372	OR.DIES	(C10-C28)	37432985	191.0
C18	6.079	0.023	4466	3942				
C20	6.629	0.001	15807	7032	JET-A	(C10-C18)	251326	1.5
C22	7.184	-0.009	69530	27586				
C24	7.745	0.002	311043	168835				
C25	8.014	0.002	417193	362937				
C26	8.269	-0.003	467663	346796				
C28	8.779	0.002	562711	224336				
C32	9.707	0.001	683502	371053				
C34	10.125	-0.005	713842	924625				
Filter Peak	12.075	-0.000	216088	85492	BUNKERC	(C10-C38)	118490676	3001.5
C36	10.537	0.003	664921	523533				
C38	10.929	-0.001	529835	132064				
C40	11.393	0.006	371203	129552				
o-terph	6.247	-0.000	17150	49096				
Triacon Surr	9.266	-0.013	7693311	7418519	NAS DIES	(C10-C24)	8676658	44.5

Range Times: NW Diesel(4.016 - 7.743) AK102(3.03 - 8.01) Jet A(3.03 - 6.06)
NW M.Oil(7.74 - 10.93) AK103(8.01 - 10.53) OR Diesel(3.03 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	49096	0.2
Triacontane	7418519	50.0 M

M Indicates the peak was manually integrated

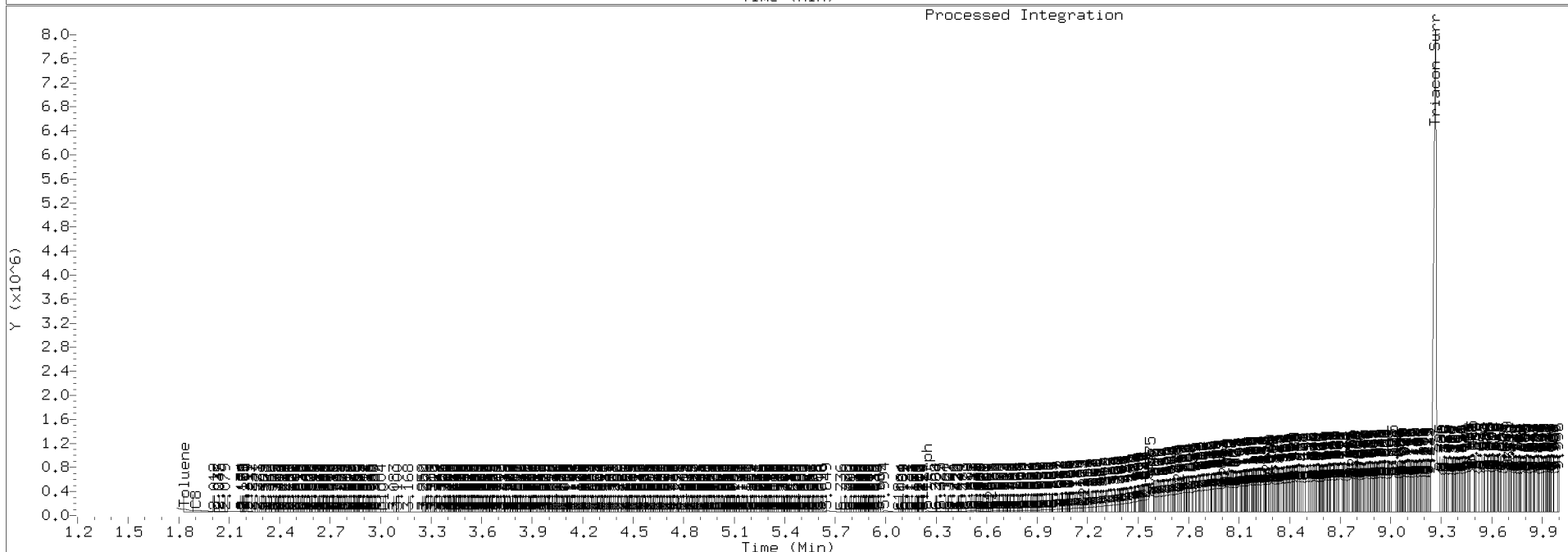
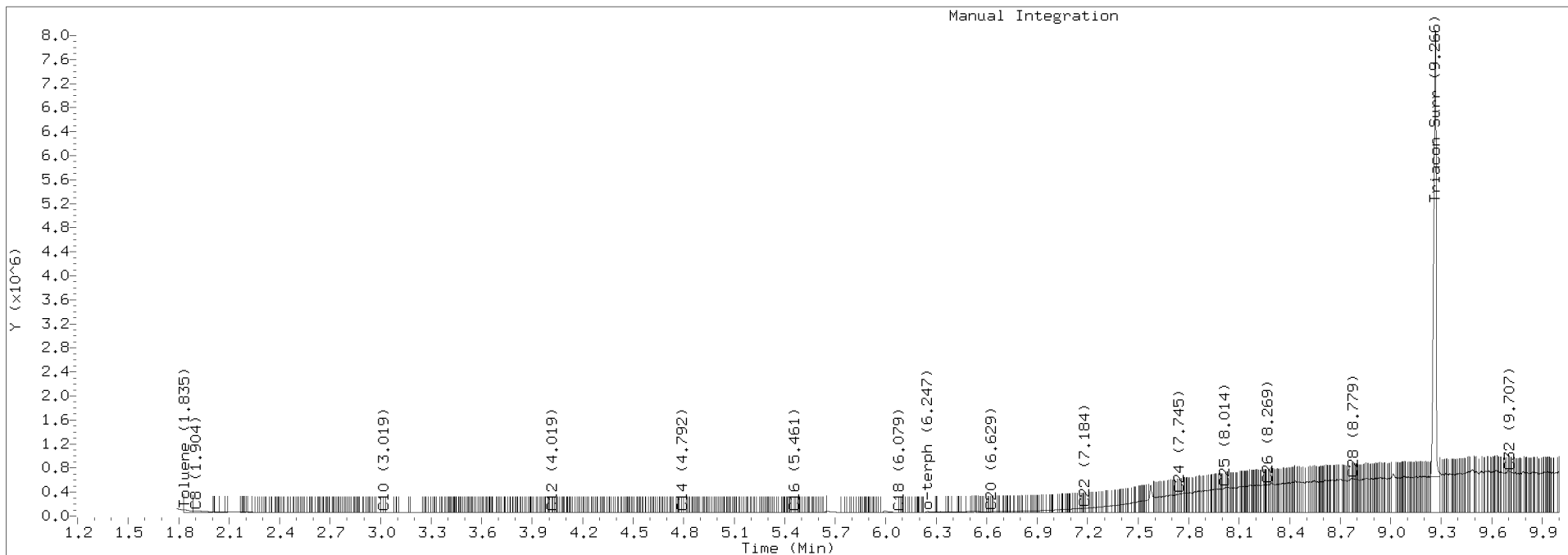
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201102.b/420K0206.D Injection: 02-NOV-2020 10:10

Lab ID:SEQ-ICV2





INITIAL CALIBRATION CHECK NWTPH-Dx

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Instrument ID: FID4 Calibration: DA00022
Lab File ID: 420K0213.D Calibration Date: 10/25/2019
Sequence: SIK0016 Injection Date: 11/02/20
Lab Sample ID: SIK0016-ICV3 Injection Time: 12:33
Sequence Name: A/S LANDAU BUNKER C

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
o-Terphenyl	A	22.500	22.7	204701.9000	206237.7000		0.9	+/-15

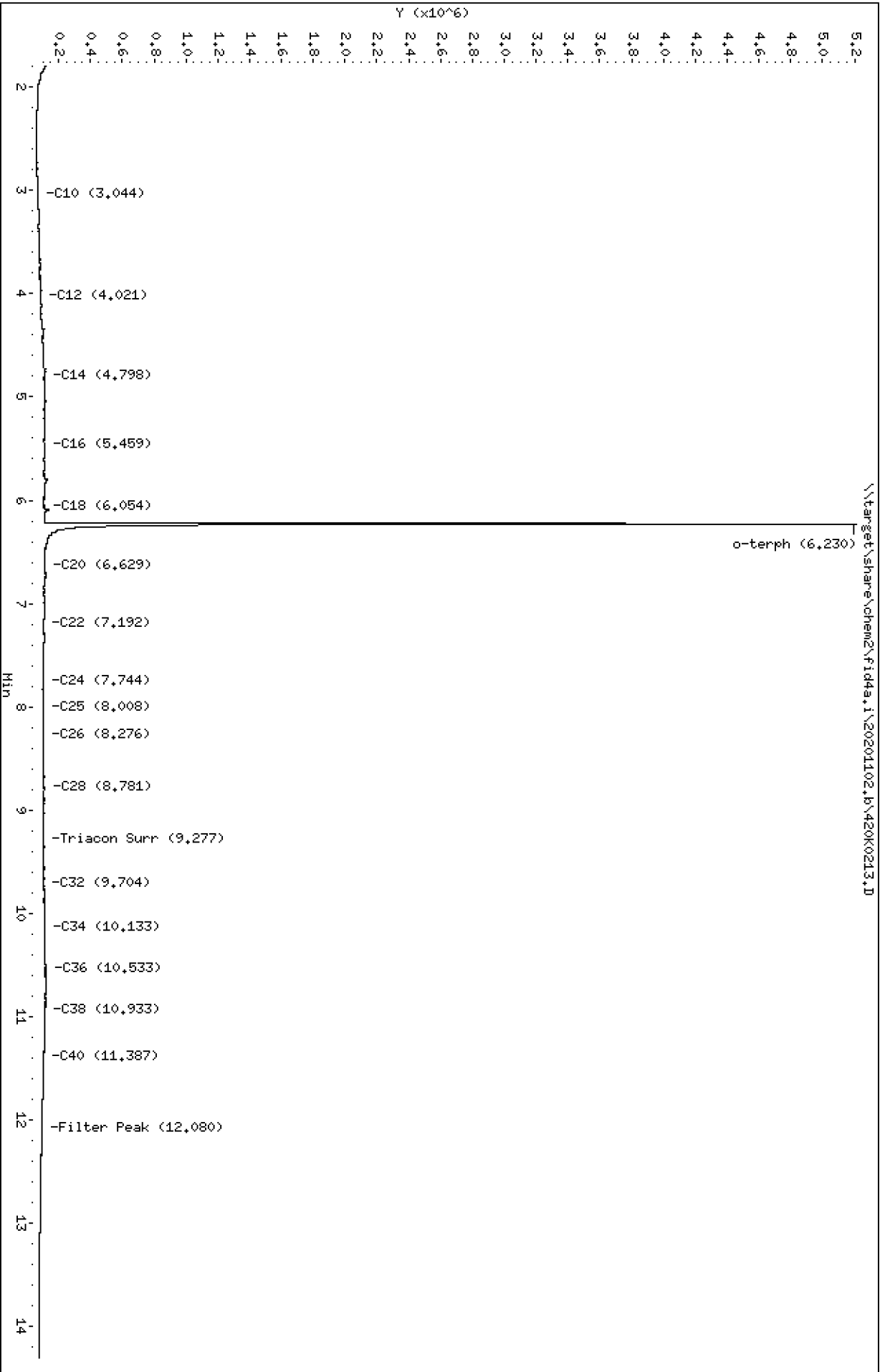
* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201102,b\420K0213.D
Date : 02-NOV-2020 12:33
Client ID:
Sample Info: SEQ-ICV3

Instrument: fid4a,1

Column phase: RTX-1

Operator: CTO
Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201102.b/420K0213.D
Method: 20201102.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/03/2020
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: 02-NOV-2020 12:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

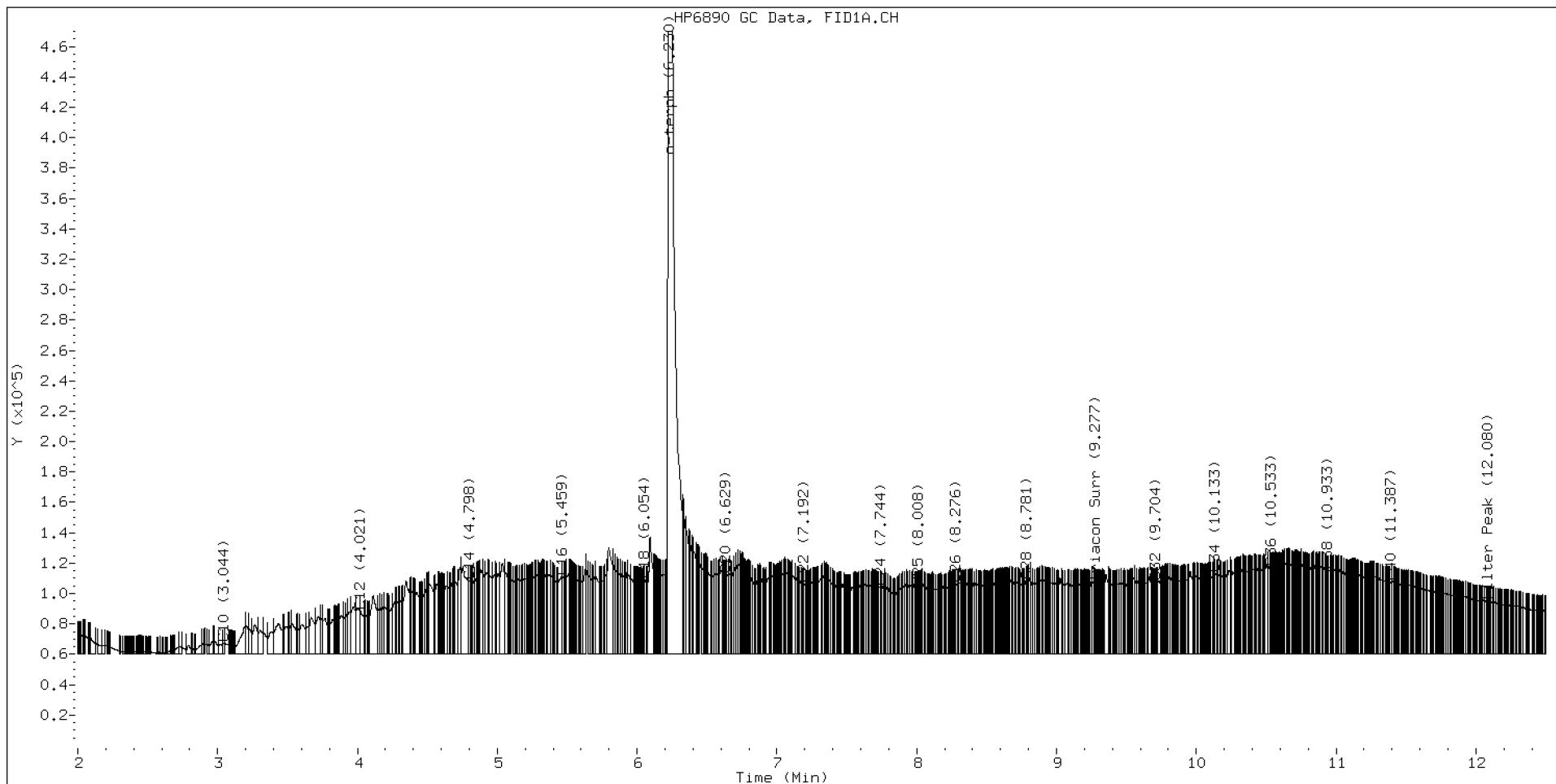
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.905	-0.049	29425	121927	WATPHD	(C12-C24)	10141433	63.6
C10	3.044	0.012	6803	6901	WATPHM	(C24-C38)	9120025	90.1
C12	4.021	0.005	27733	40280	AK102	(C10-C25)	11635353	59.5
C14	4.798	0.001	47843	38122	AK103	(C25-C36)	7369602	100.7
C16	5.459	-0.005	50282	92824	OR.DIES	(C10-C28)	13926769	71.1
C18	6.054	-0.002	48195	33149				
C20	6.629	0.000	51938	23197	JET-A	(C10-C18)	6617909	39.9
C22	7.192	-0.001	45794	36257				
C24	7.744	0.001	43476	10837				
C25	8.008	-0.003	43651	13061				
C26	8.276	0.004	45572	31655				
C28	8.781	0.004	47716	32741				
C32	9.704	-0.001	46788	30190				
C34	10.133	0.002	52271	15603				
Filter Peak	12.080	0.005	33980	18653	BUNKERC	(C10-C38)	20329330	515.0
C36	10.533	-0.000	56464	22507				
C38	10.933	0.002	54392	16254				
C40	11.387	0.000	47293	35175				
o-terph	6.230	-0.017	5152254	4640349				
Triacon Surr	9.277	-0.002	45837	24942	NAS DIES	(C10-C24)	11209305	57.4

Range Times: NW Diesel(4.016 - 7.743) AK102(3.03 - 8.01) Jet A(3.03 - 6.06)
NW M.Oil(7.74 - 10.93) AK103(8.01 - 10.53) OR Diesel(3.03 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	4640349	22.7
Triacontane	24942	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	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020





INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420K1005.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIK0149</u>	Injection Date: <u>11/10/20</u>
Lab Sample ID: <u>SIK0149-ICV1</u>	Injection Time: <u>09:05</u>
Sequence Name: <u>DIESEL ICV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	461	159336.7000	146797.6000		-7.9	+/-15
o-Terphenyl	A	90.000	85.3	204701.9000	194009.8000		-5.2	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1005.D
Date: 10-NOV-2020 09:05

Client ID:

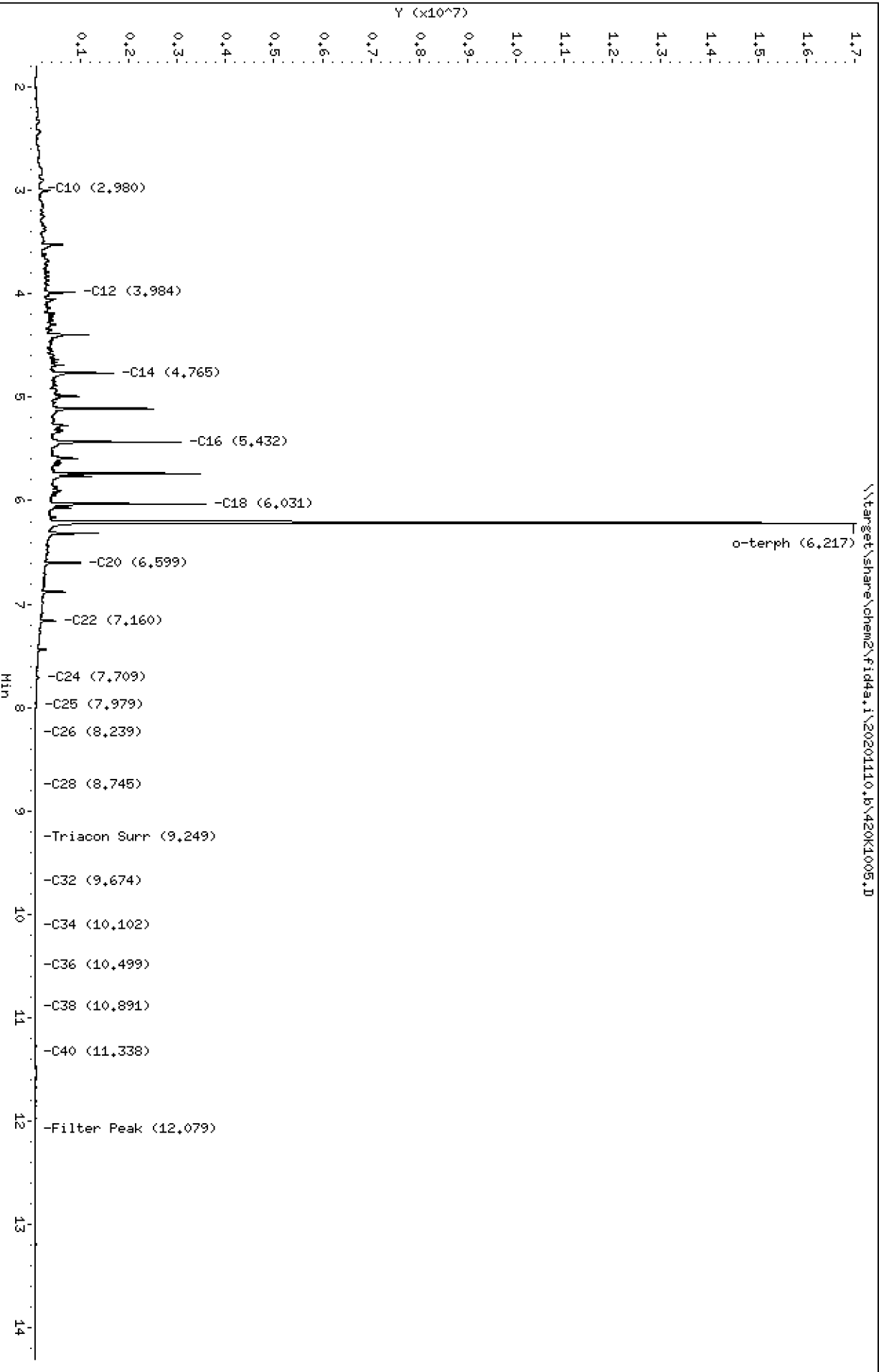
Sample Info: SEQ-ICV1

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1005.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
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: 10-NOV-2020 09:05
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

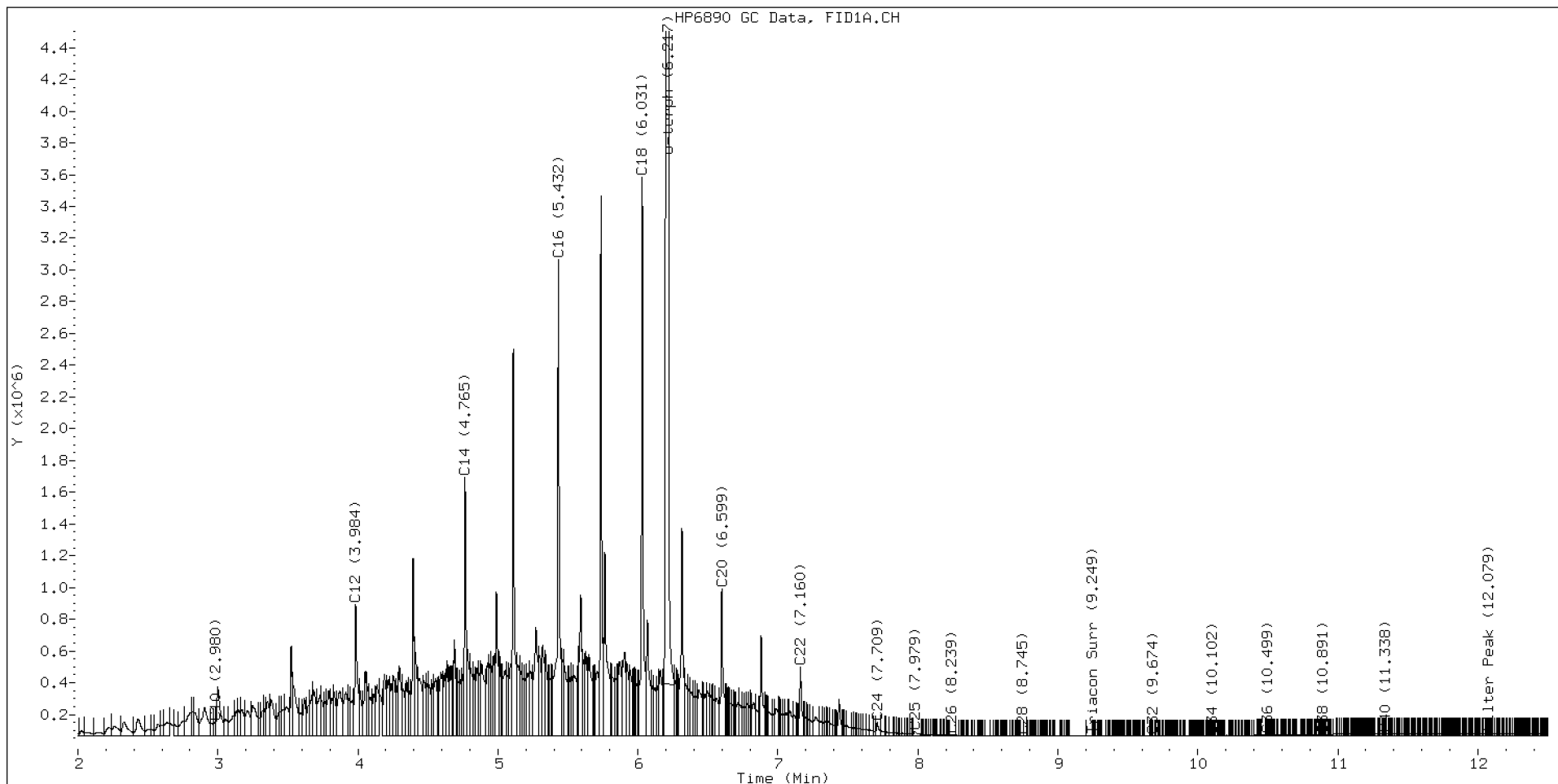
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.879	0.006	36550	106735	WATPHD	(C12-C24)	73398816	460.7
C10	2.980	-0.005	90811	92498	WATPHM	(C24-C38)	902240	8.9
C12	3.984	0.003	828642	995125	AK102	(C10-C25)	86096123	440.4
C14	4.765	-0.001	1633219	1335740	AK103	(C25-C36)	489461	6.7
C16	5.432	-0.001	3004248	3321943	OR.DIES	(C10-C28)	86357265	440.6
C18	6.031	-0.002	3518657	3052329				
C20	6.599	-0.005	930696	1039396	JET-A	(C10-C18)	67460586	406.8
C22	7.160	-0.007	433558	468716				
C24	7.709	-0.007	89271	119150				
C25	7.979	-0.006	31298	64273				
C26	8.239	-0.007	11321	20645				
C28	8.745	-0.005	1713	1529				
C32	9.674	-0.004	1276	786				
C34	10.102	0.000	3488	1859				
Filter Peak	12.079	-0.005	13969	6972	BUNKERC	(C10-C38)	86823482	2199.3
C36	10.499	-0.002	7373	2192				
C38	10.891	0.000	12168	7263				
C40	11.338	0.000	13986	5578				
o-terph	6.217	-0.002	16639425	17460885				
Triacon Surr	9.249	-0.005	747	379	NAS DIES	(C10-C24)	85921242	440.3

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	17460885	85.3 M
Triacontane	379	0.0

M Indicates the peak was manually integrated

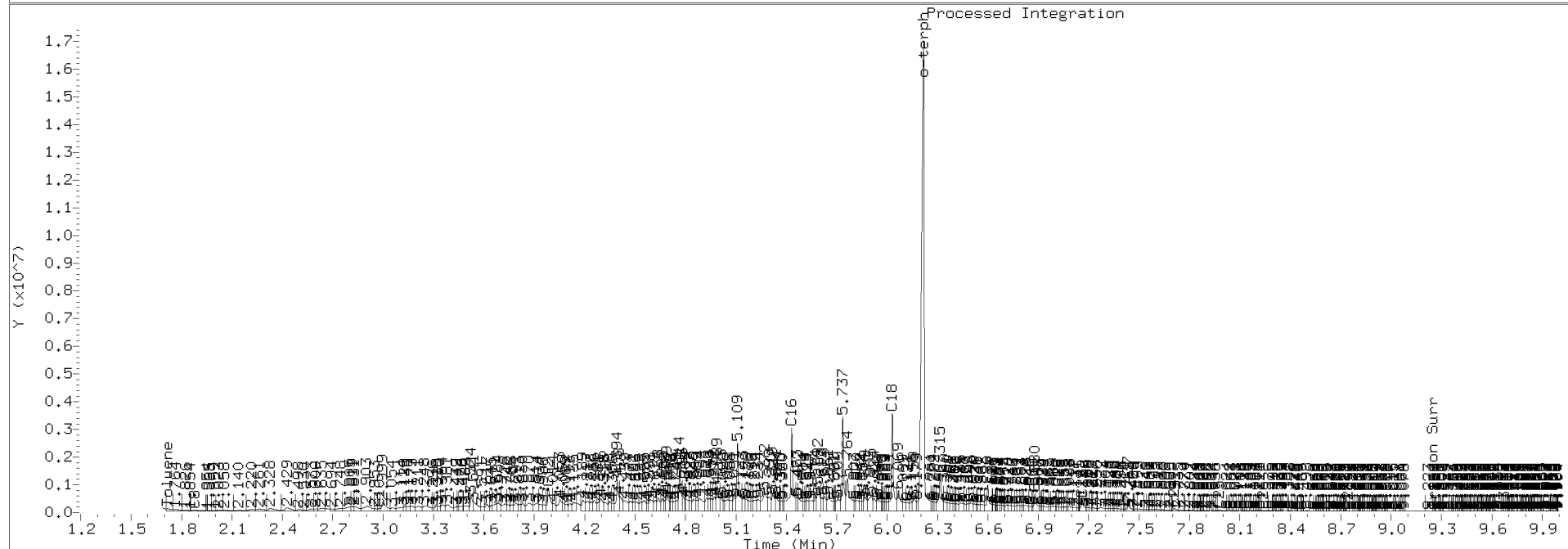
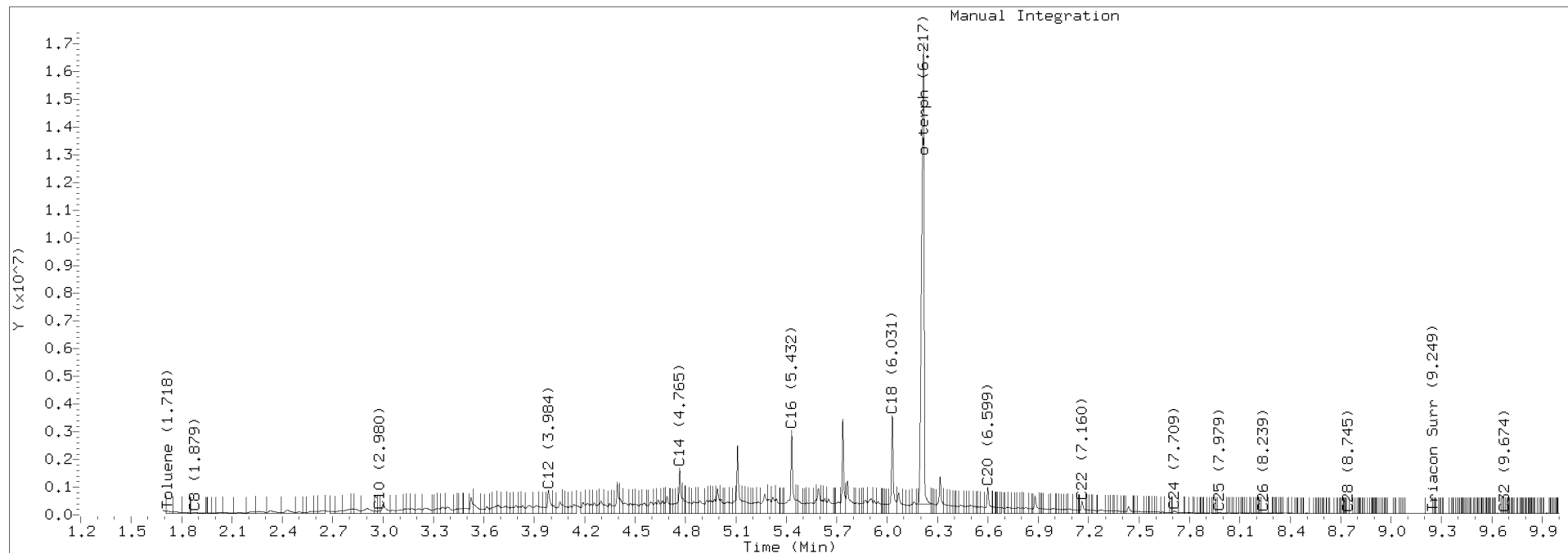
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1005.D Injection: 10-NOV-2020 09:05

Lab ID:SEQ-ICV1





Analytical Resources, Incorporated
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK

NWTPH-Dx

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Instrument ID: FID4 Calibration: DA00022
Lab File ID: 420K1006.D Calibration Date: 10/25/2019
Sequence: SIK0149 Injection Date: 11/10/20
Lab Sample ID: SIK0149-ICV2 Injection Time: 09:26
Sequence Name: MOIL ICV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	996	101166.0000	100742.6000		-0.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1006.D
Date: 10-NOV-2020 09:26

Client ID:

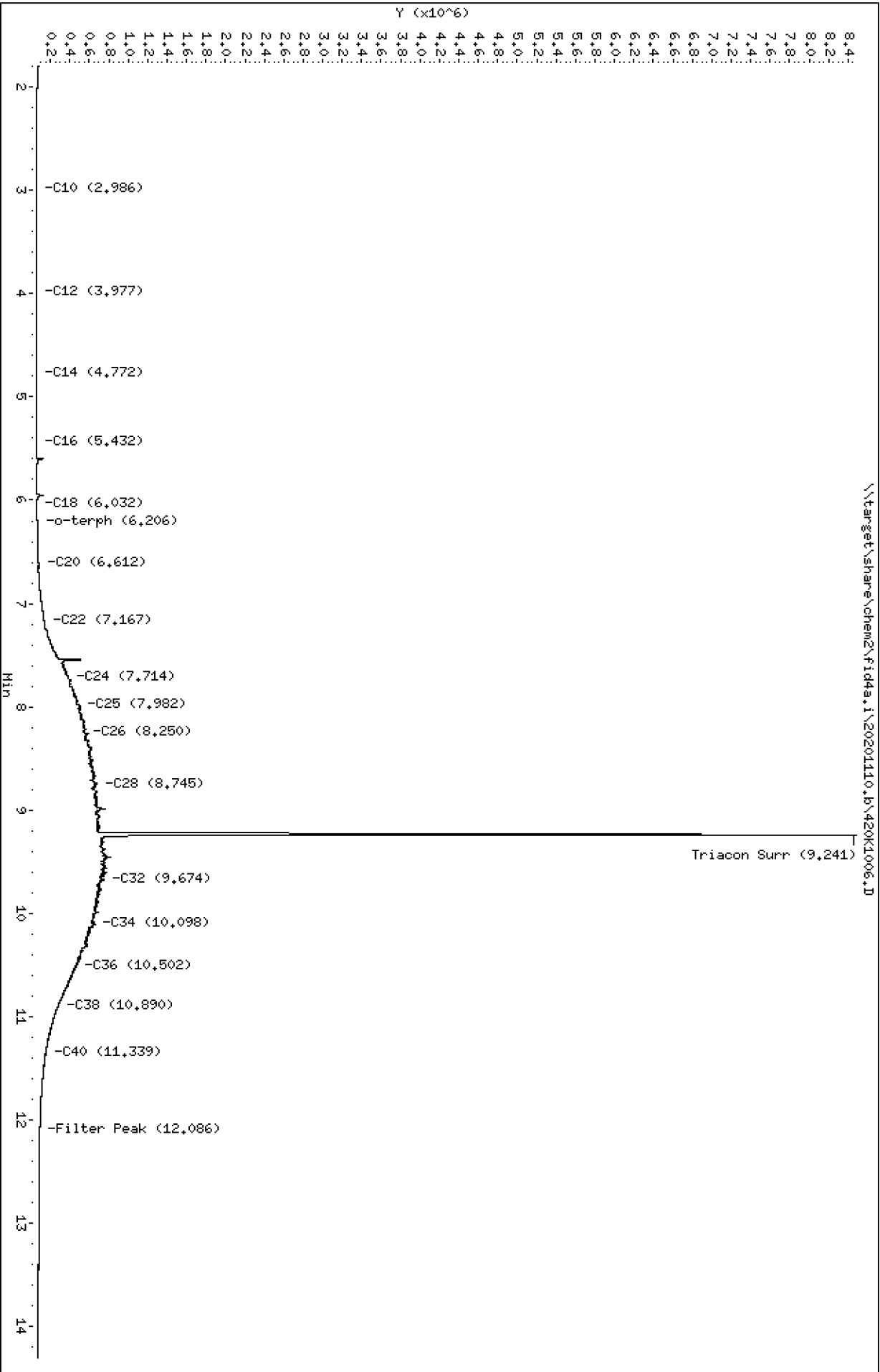
Sample Info: SEQ-ICV2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1006.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
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: 10-NOV-2020 09:26
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

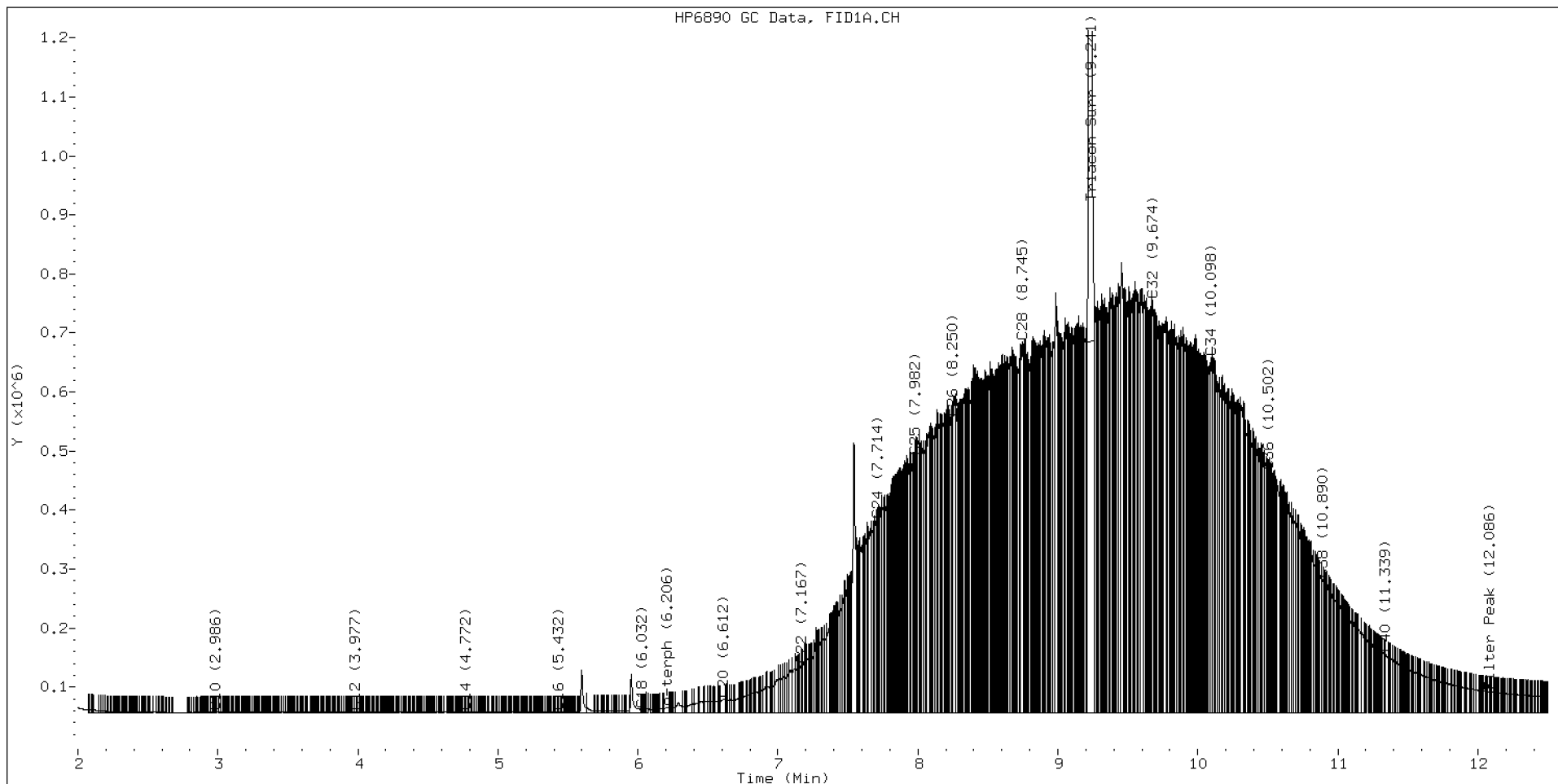
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.840	-0.034	19120	67505	WATPHD	(C12-C24)	9416494	59.1
C10	2.986	0.001	475	178	WATPHM	(C24-C38)	100742629	995.8
C12	3.977	-0.004	850	591	AK102	(C10-C25)	13215697	67.6
C14	4.772	0.006	1279	252	AK103	(C25-C36)	90325479	1233.8
C16	5.432	-0.001	1634	405	OR.DIES	(C10-C28)	40525882	206.8
C18	6.032	-0.001	5372	2940				
C20	6.612	0.008	23065	49573	JET-A	(C10-C18)	378124	2.3
C22	7.167	-0.000	80686	73183				
C24	7.714	-0.002	326157	145884				
C25	7.982	-0.002	434442	191861				
C26	8.250	0.004	499371	148173				
C28	8.745	-0.005	628314	672327				
C32	9.674	-0.004	698864	579787				
C34	10.098	-0.004	600932	498842				
Filter Peak	12.086	0.002	35196	20772	BUNKERC	(C10-C38)	110206168	2791.6
C36	10.502	-0.000	409776	101722				
C38	10.890	-0.001	225850	133880				
C40	11.339	0.001	99542	129580				
o-terph	6.206	-0.013	8120	17651				
Triacon Surr	9.241	-0.013	7801559	7915476	NAS DIES	(C10-C24)	9463539	48.5

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	17651	0.1
Triacontane	7915476	53.3 M

M Indicates the peak was manually integrated

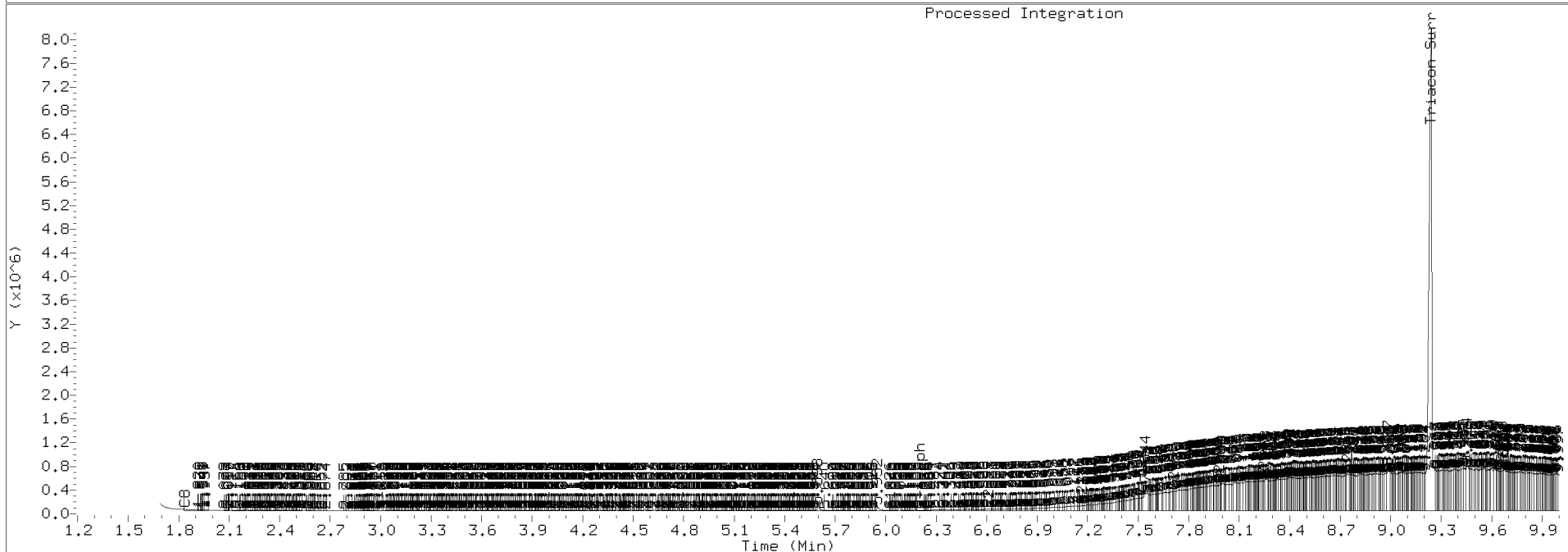
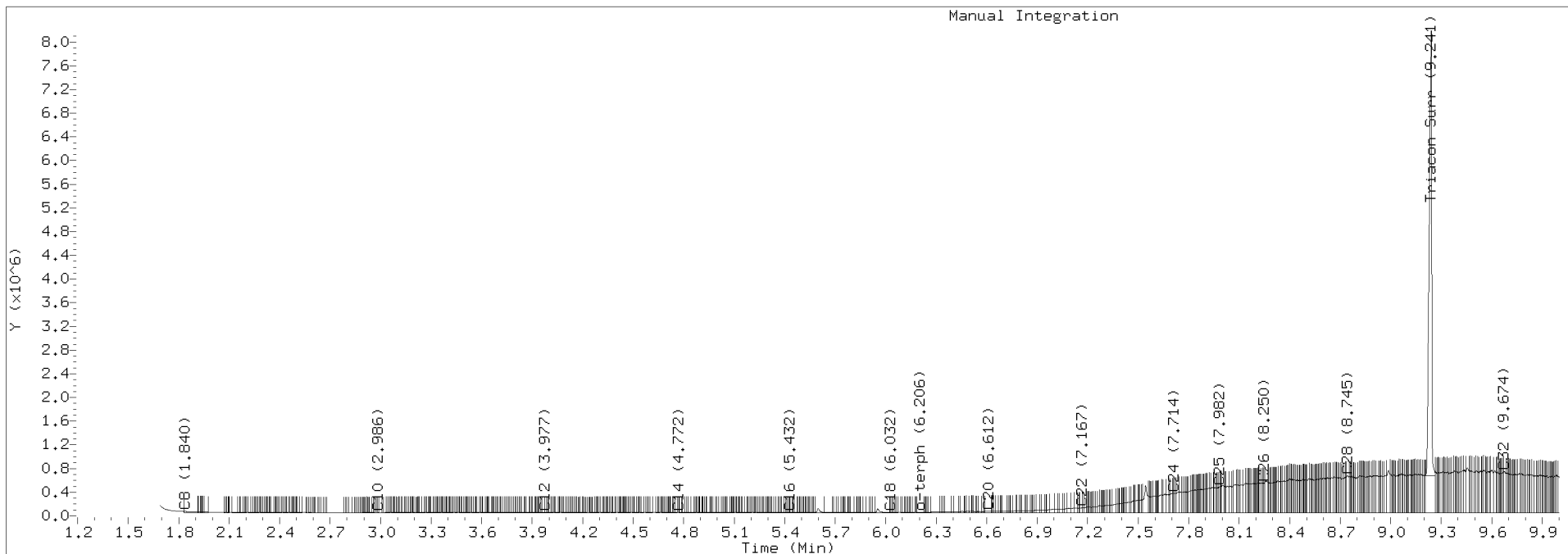
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1006.D Injection: 10-NOV-2020 09:26

Lab ID:SEQ-ICV2





CONTINUING CALIBRATION CHECK

NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420H1413.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIH0165</u>	Injection Date: <u>08/14/20</u>
Lab Sample ID: <u>SIH0165-CCV1</u>	Injection Time: <u>11:59</u>
Sequence Name: <u>DIESEL CCV</u>	

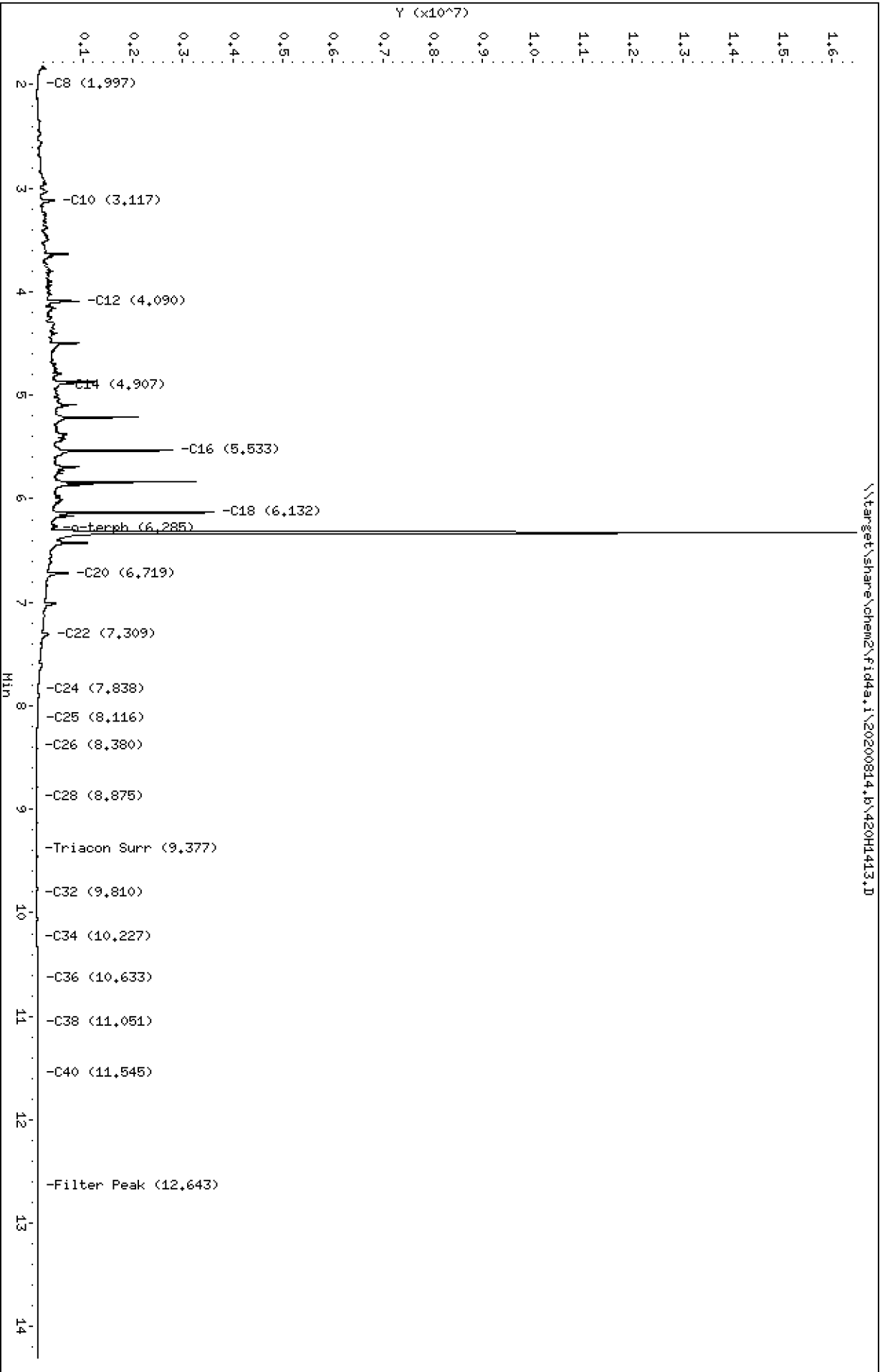
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	481	159336.7	153209.9		-3.8	+/-15
o-Terphenyl	A	90.000	79.3	204701.9	180393.1		-11.9	+/-15

* Values outside of QC limits

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

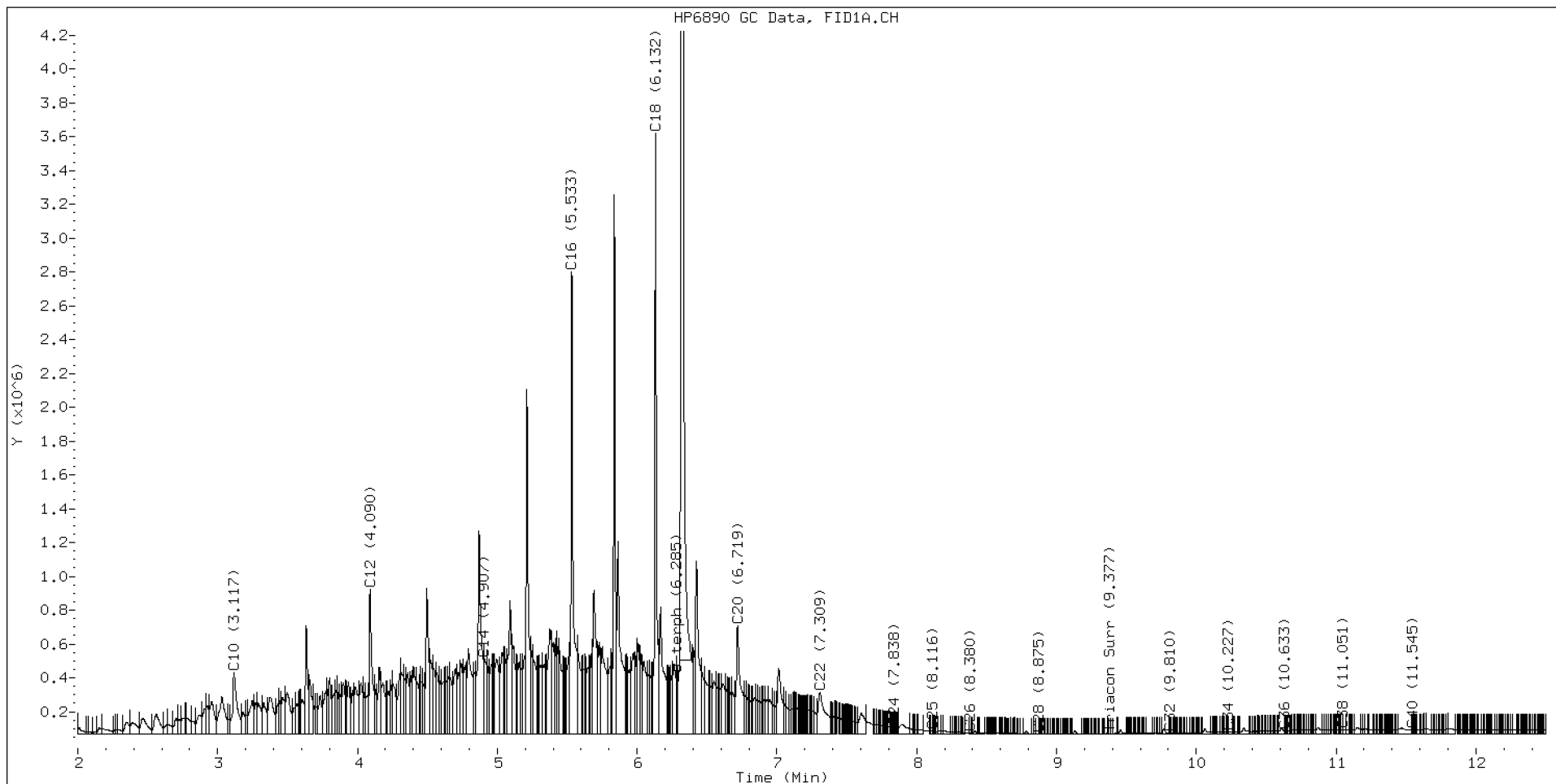
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.997	0.005	33555	26527	WATPHD	(C12-C24)	76604959	480.8
C10	3.117	0.011	360980	800884	WATPHM	(C24-C38)	2087736	20.6
C12	4.090	0.003	858002	1109180	AK102	(C10-C25)	90098220	460.9
C14	4.907	0.011	444696	641926	AK103	(C25-C36)	1192714	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

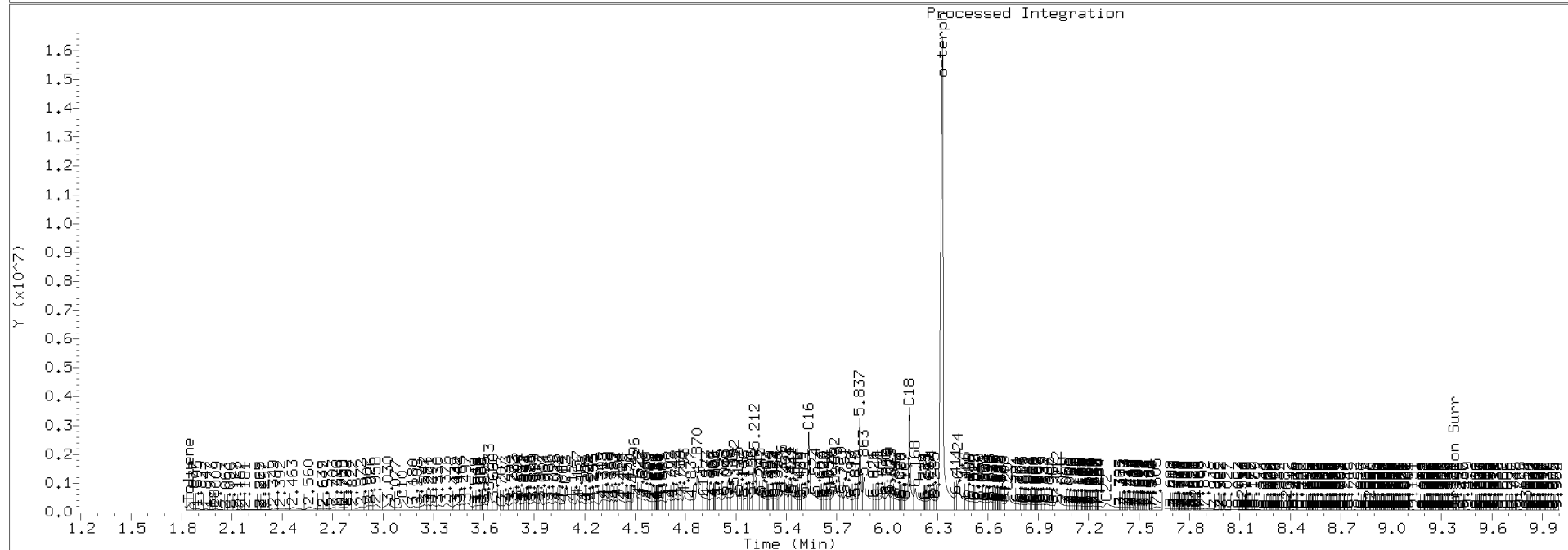
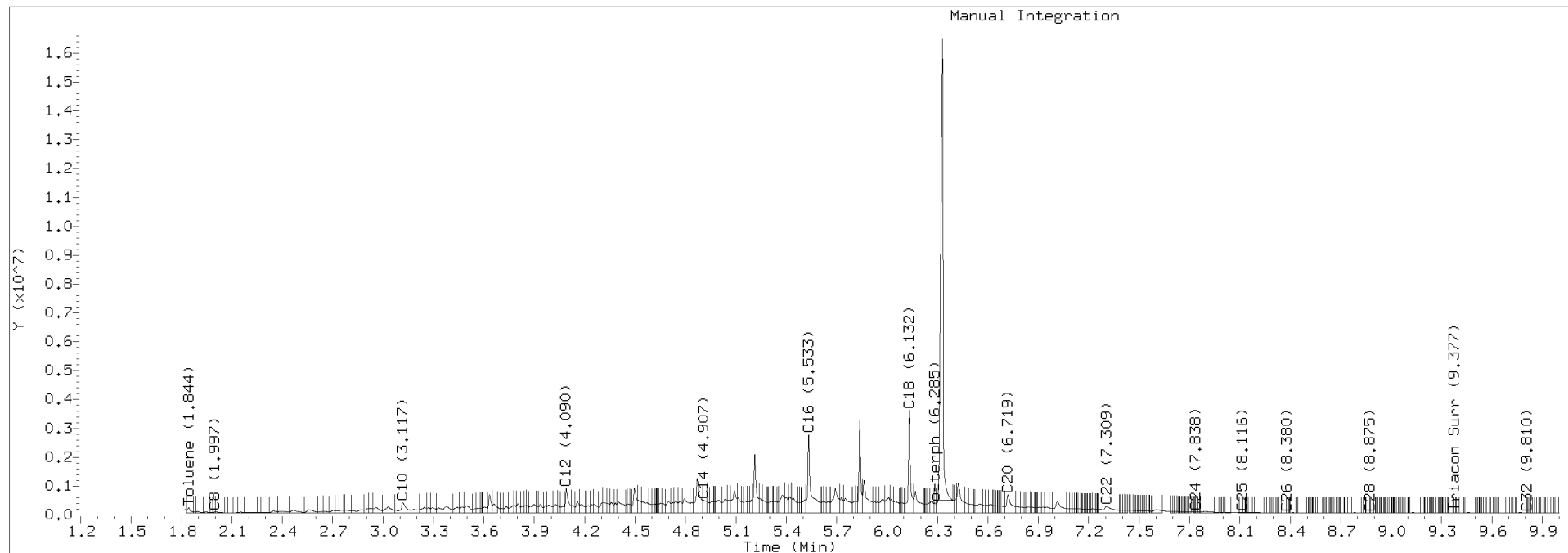
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2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





CONTINUING CALIBRATION CHECK
NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420J0227.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIJ0042</u>	Injection Date: <u>10/02/20</u>
Lab Sample ID: <u>SIJ0042-CCV1</u>	Injection Time: <u>17:33</u>
Sequence Name: <u>DIESEL CCV</u>	

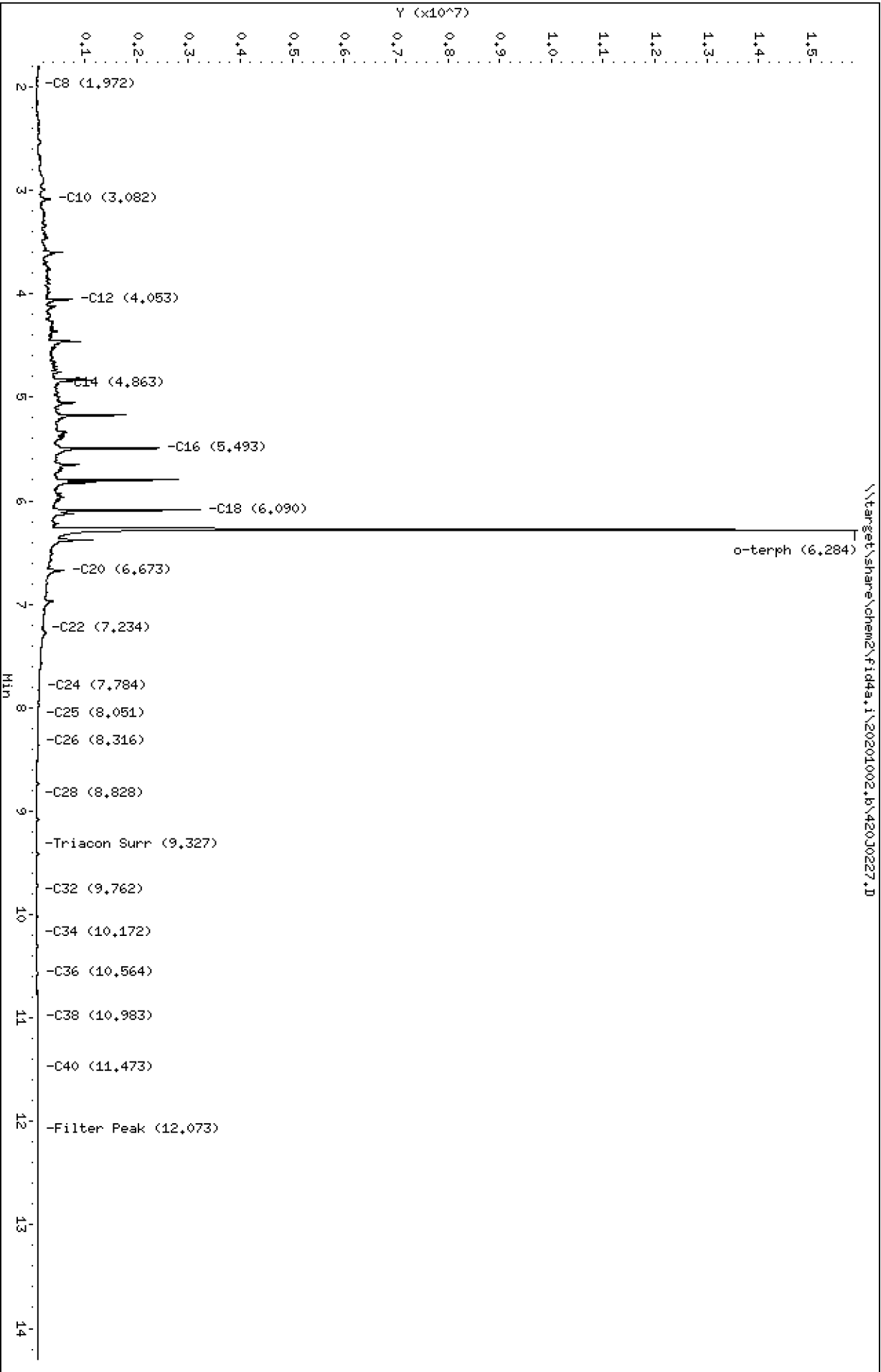
COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	447	159336.7	142557.1		-10.5	+/-15
o-Terphenyl	A	90.000	79.5	204701.9	180884.2		-11.7	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201002_b\42030227.D
Date : 02-OCT-2020 17:33
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: 20201002.b/420J0227.D
Method: 20201002.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 10/03/2020
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: 02-OCT-2020 17:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

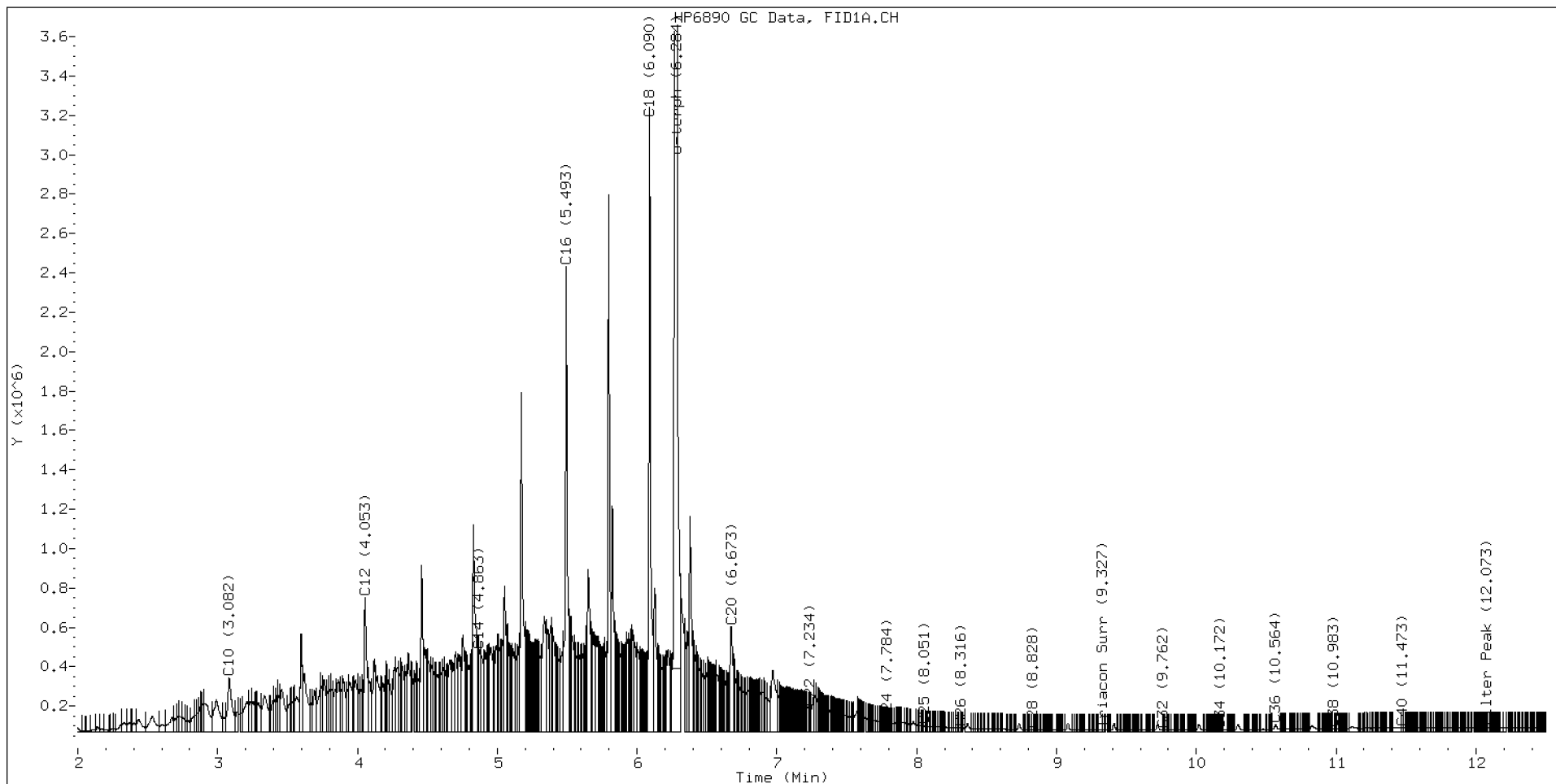
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.972	-0.014	9352	8051	WATPHD	(C12-C24)	71278543	447.3
C10	3.082	0.010	275290	604499	WATPHM	(C24-C38)	2595002	25.7
C12	4.053	0.001	678847	919302	AK102	(C10-C25)	83170245	425.4
C14	4.863	0.013	409591	81784	AK103	(C25-C36)	1818352	24.8
C16	5.493	-0.006	2358669	2412149	OR.DIES	(C10-C28)	84001487	428.6
C18	6.090	-0.002	3170614	2857622				
C20	6.673	-0.000	533120	754522	JET-A	(C10-C18)	63484632	382.8
C22	7.234	-0.002	119695	46935				
C24	7.784	-0.000	45383	13433				
C25	8.051	-0.004	27468	20294				
C26	8.316	-0.000	17075	9319				
C28	8.828	0.007	9161	4968				
C32	9.762	0.009	6982	2433				
C34	10.172	-0.005	7930	2763				
Filter Peak	12.073	0.004	16575	6608	CREOSOT	(C12-C22)	68914152	1218.7
C36	10.564	-0.013	34401	64674				
C38	10.983	0.003	15510	9262				
C40	11.473	0.018	17169	9419				
o-terph	6.284	-0.000	15509175	16279578				
Triacon Surr	9.327	0.007	6503	1296	NAS DIES	(C10-C24)	82734184	424.0

Range Times: NW Diesel(4.052 - 7.785) AK102(3.07 - 8.05) Jet A(3.07 - 6.09)
NW M.Oil(7.78 - 10.98) AK103(8.05 - 10.58) OR Diesel(3.07 - 8.82)

Surrogate	Area	Amount
o-Terphenyl	16279578	79.5 M
Triacontane	1296	0.0

M Indicates the peak was manually integrated

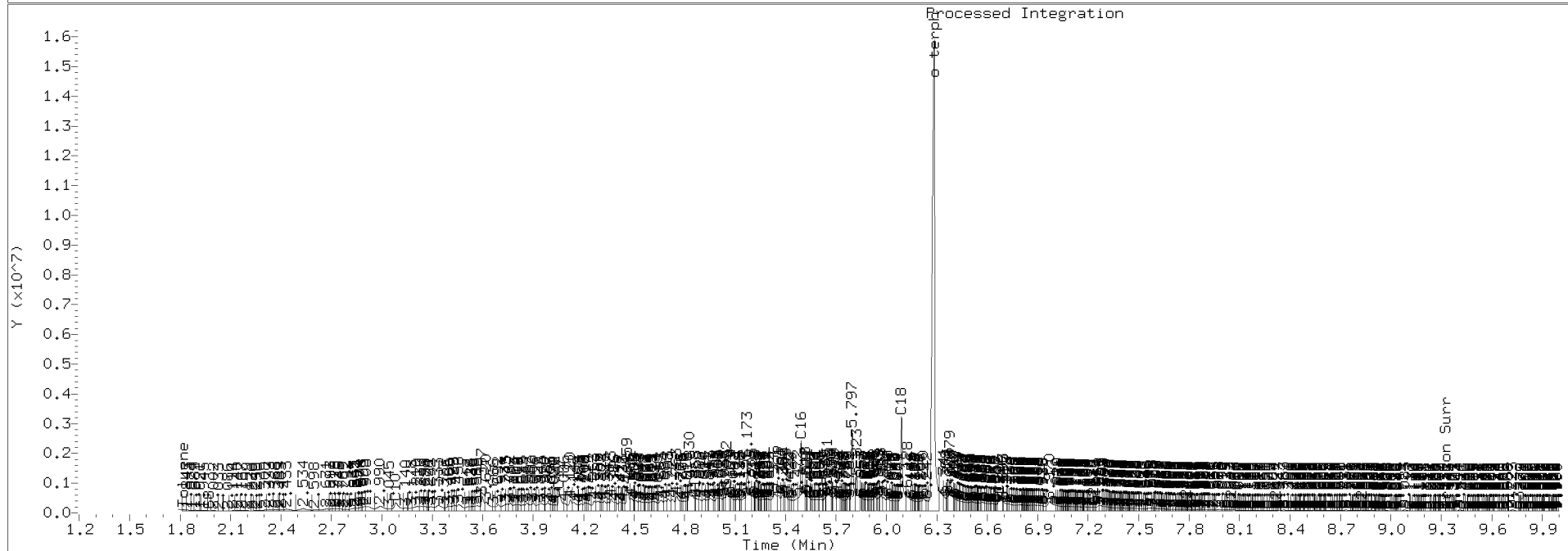
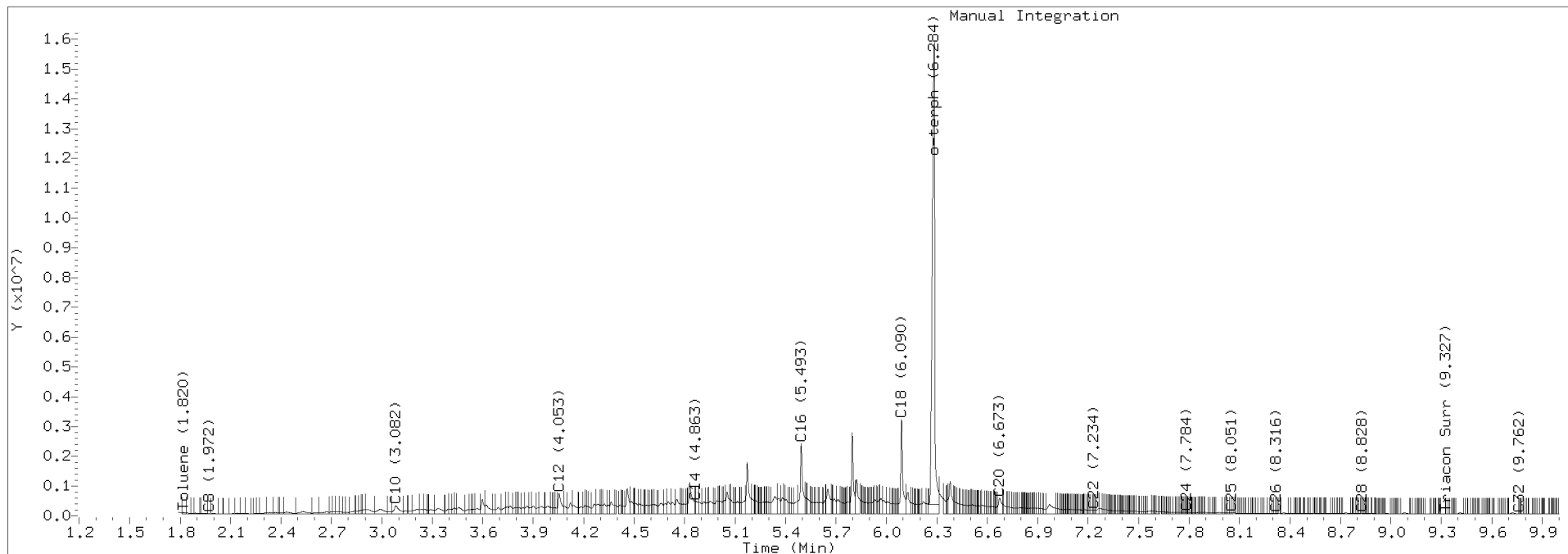
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Creosote	56546.9	30-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201002.b/420J0227.D Injection: 02-OCT-2020 17:33

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420K0216.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIK0016</u>	Injection Date: <u>11/02/20</u>
Lab Sample ID: <u>SIK0016-CCV1</u>	Injection Time: <u>13:34</u>
Sequence Name: <u>DIESEL CCV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	469	159336.7	149526.6		-6.2	+/-15
o-Terphenyl	A	90.000	84.8	204701.9	192767.9		-5.8	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201102,b\420k0216.D

Date: 02-NOV-2020 13:34

Client ID:

Sample Info: SEQ-CCV1

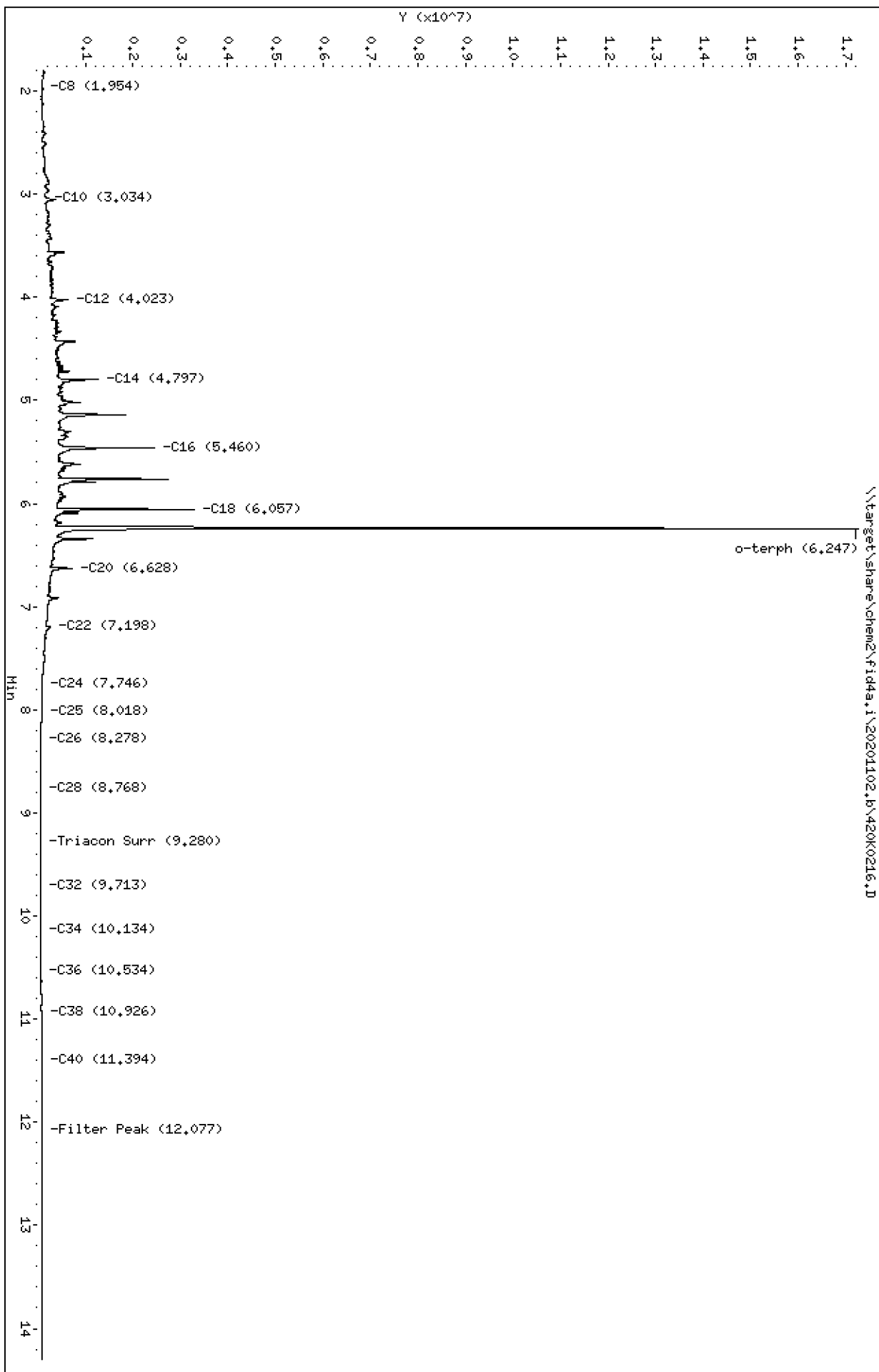
Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25

Page 1



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201102.b/420K0216.D
Method: 20201102.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/03/2020
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: 02-NOV-2020 13:34
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

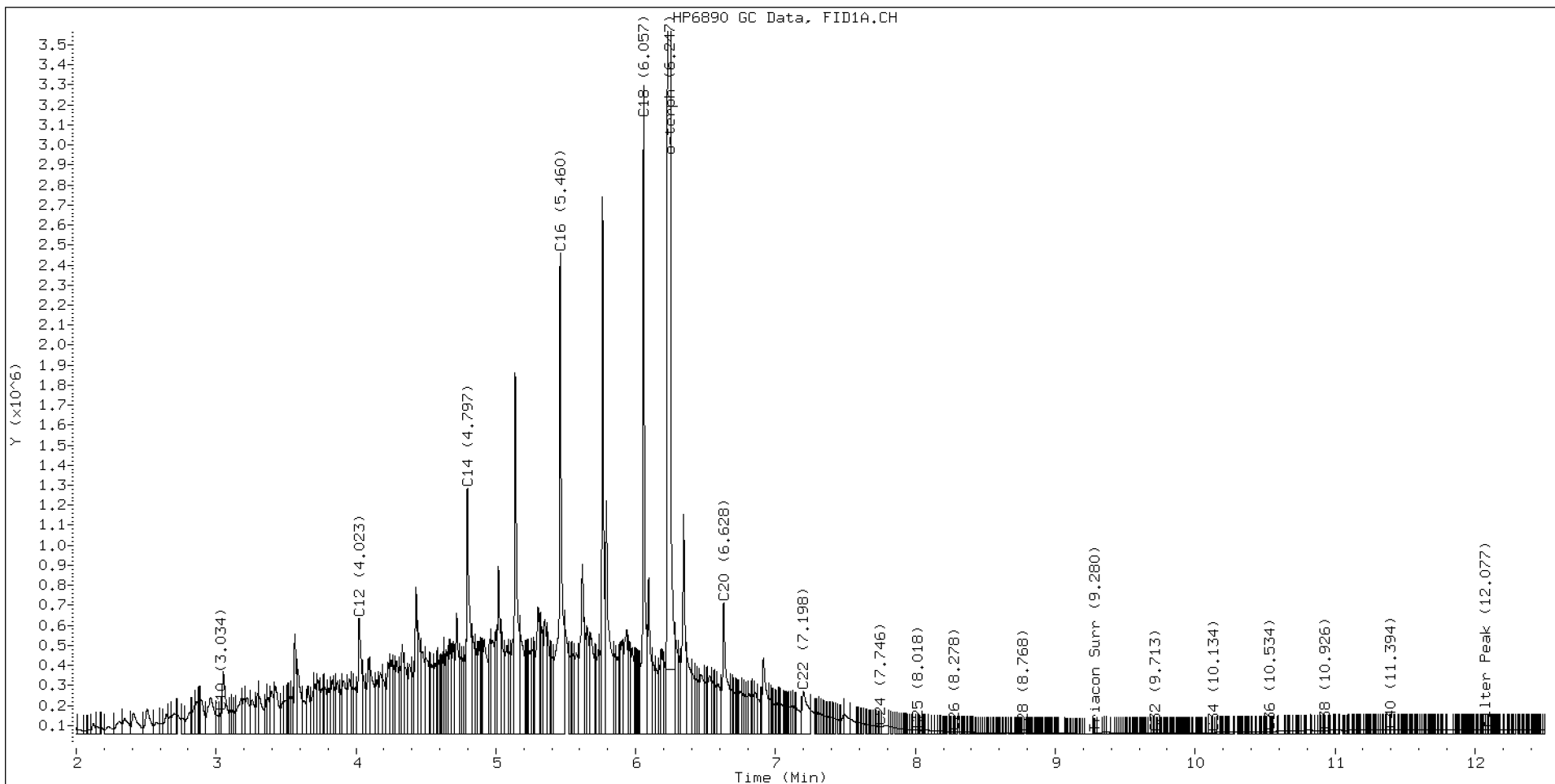
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.954	0.000	24971	20616	WATPHD	(C12-C24)	74763315	469.2
C10	3.034	0.002	105321	101464	WATPHM	(C24-C38)	1209447	12.0
C12	4.023	0.006	575267	930536	AK102	(C10-C25)	87571211	448.0
C14	4.797	-0.000	1223737	1816061	AK103	(C25-C36)	715520	9.8
C16	5.460	-0.004	2401544	3561647	OR.DIES	(C10-C28)	87913199	448.5
C18	6.057	0.000	3237914	3091821				
C20	6.628	-0.000	653899	1248522	JET-A	(C10-C18)	68713755	414.3
C22	7.198	0.005	208605	636302				
C24	7.746	0.003	33322	18203				
C25	8.018	0.006	16614	6601				
C26	8.278	0.006	7987	4343				
C28	8.768	-0.009	1583	1127				
C32	9.713	0.007	2142	1257				
C34	10.134	0.004	5373	3976				
Filter Peak	12.077	0.001	17799	13225	BUNKERC	(C10-C38)	88597423	2244.3
C36	10.534	0.000	10027	7461				
C38	10.926	-0.005	14614	5814				
C40	11.394	0.008	18404	11939				
o-terph	6.247	-0.000	16886621	17349107				
Triacon Surr	9.280	0.001	254	113	NAS DIES	(C10-C24)	87387977	447.8

Range Times: NW Diesel(4.016 - 7.743) AK102(3.03 - 8.01) Jet A(3.03 - 6.06)
NW M.Oil(7.74 - 10.93) AK103(8.01 - 10.53) OR Diesel(3.03 - 8.78)

Surrogate	Area	Amount
o-Terphenyl	17349107	84.8 M
Triacontane	113	0.0

M Indicates the peak was manually integrated

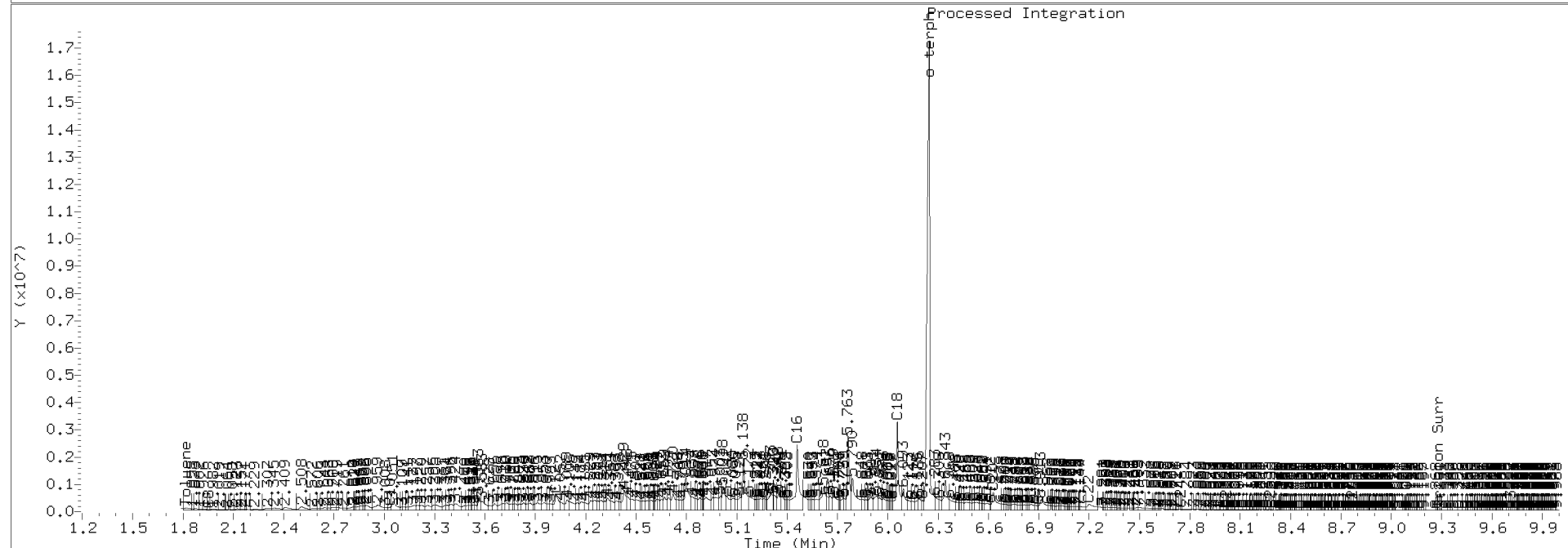
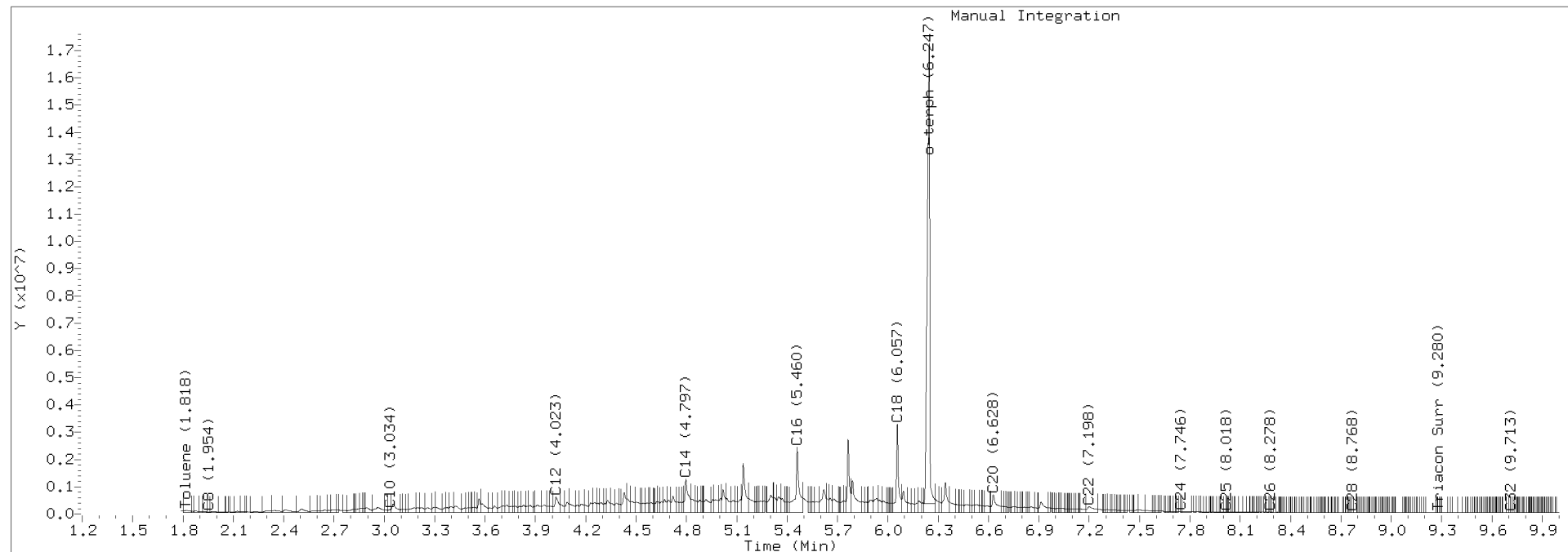
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201102.b/420K0216.D Injection: 02-NOV-2020 13:34

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK NWTPH-Dx

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Instrument ID:	<u>FID4</u>	Calibration:	<u>DA00022</u>
Lab File ID:	<u>420K1023.D</u>	Calibration Date:	<u>10/25/2019</u>
Sequence:	<u>SIK0149</u>	Injection Date:	<u>11/10/20</u>
Lab Sample ID:	<u>SIK0149-CCV1</u>	Injection Time:	<u>15:13</u>
Sequence Name:	<u>DIESEL CCV</u>		

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Diesel Range Organics (C12-C24)	A	500.00	469	159336.7	149444.1		-6.2	+/-15
o-Terphenyl	A	90.000	87.8	204701.9	199798.9		-2.4	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1023.D
Date: 10-NOV-2020 15:13

Client ID:

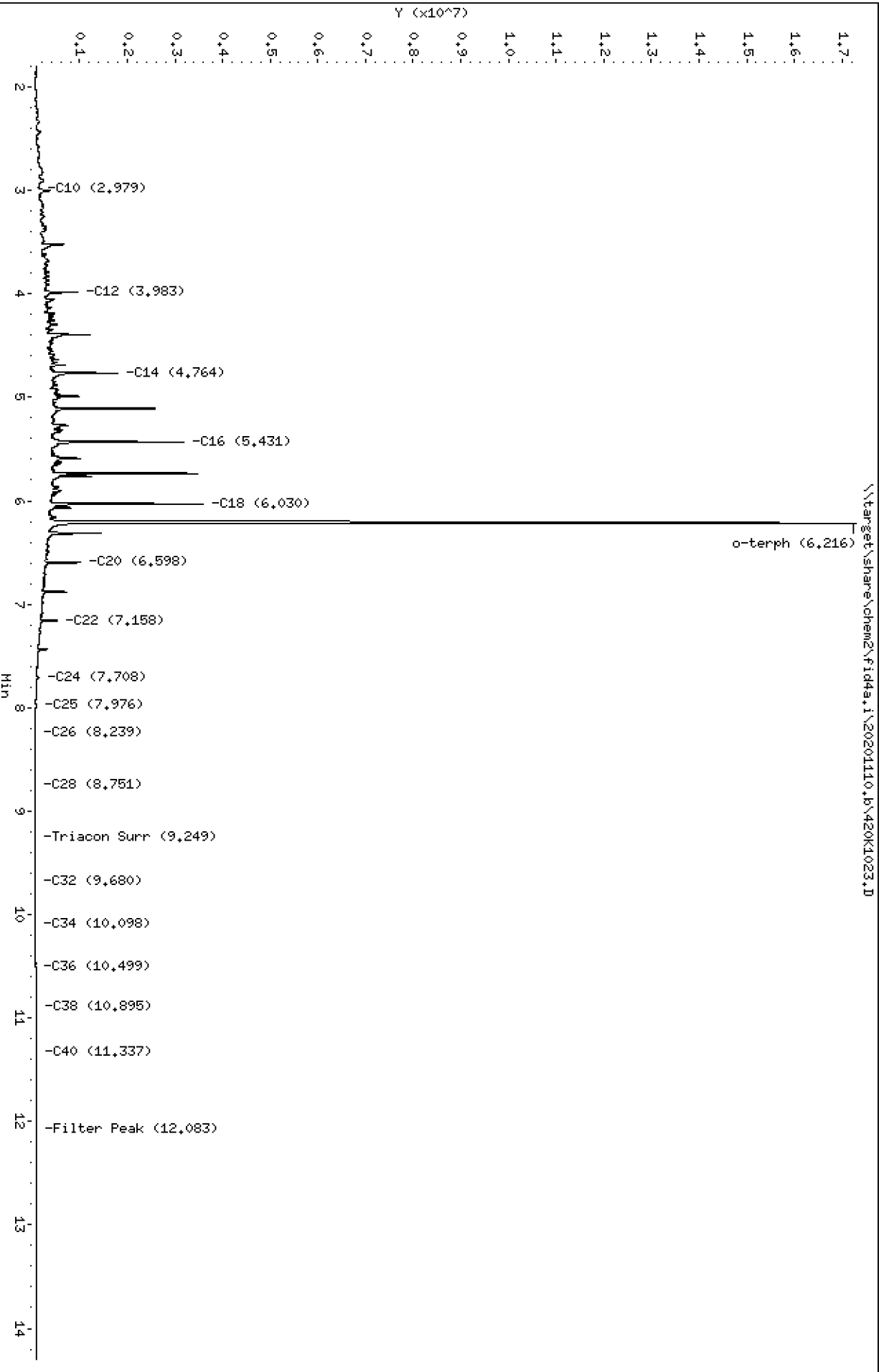
Sample Info: SEQ-CCV1

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1023.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
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: 10-NOV-2020 15:13
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

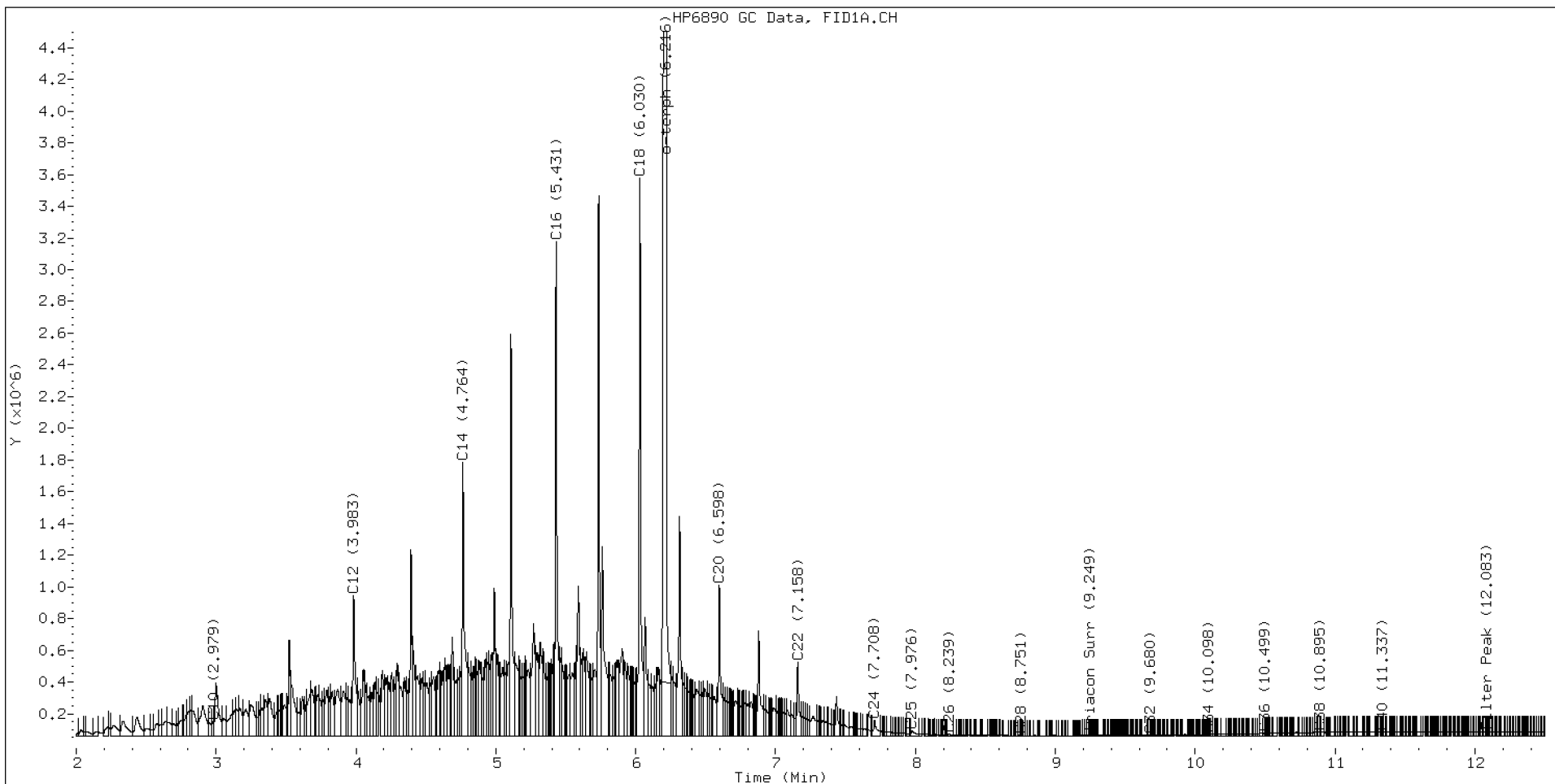
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.867	-0.007	19831	17299	WATPHD	(C12-C24)	74722070	469.0
C10	2.979	-0.006	92146	96857	WATPHM	(C24-C38)	1261530	12.5
C12	3.983	0.002	882494	1030011	AK102	(C10-C25)	87589229	448.0
C14	4.764	-0.002	1726573	1924279	AK103	(C25-C36)	684081	9.3
C16	5.431	-0.002	3116762	2537015	OR.DIES	(C10-C28)	87804947	448.0
C18	6.030	-0.003	3517918	3131494				
C20	6.598	-0.007	946020	1016324	JET-A	(C10-C18)	68749509	414.5
C22	7.158	-0.008	465141	505166				
C24	7.708	-0.008	94468	149723				
C25	7.976	-0.008	32198	61250				
C26	8.239	-0.007	11320	18361				
C28	8.751	0.001	1154	615				
C32	9.680	0.002	2997	595				
C34	10.098	-0.004	7379	3297				
Filter Peak	12.083	-0.001	21955	4387	BUNKERC	(C10-C38)	88678384	2246.3
C36	10.499	-0.003	14217	5658				
C38	10.895	0.004	21075	12573				
C40	11.337	-0.001	23021	6894				
o-terph	6.216	-0.003	16901852	17981898				
Triacon Surr	9.249	-0.004	1162	600	NAS DIES	(C10-C24)	87416855	448.0

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	17981898	87.8 M
Triacontane	600	0.0

M Indicates the peak was manually integrated

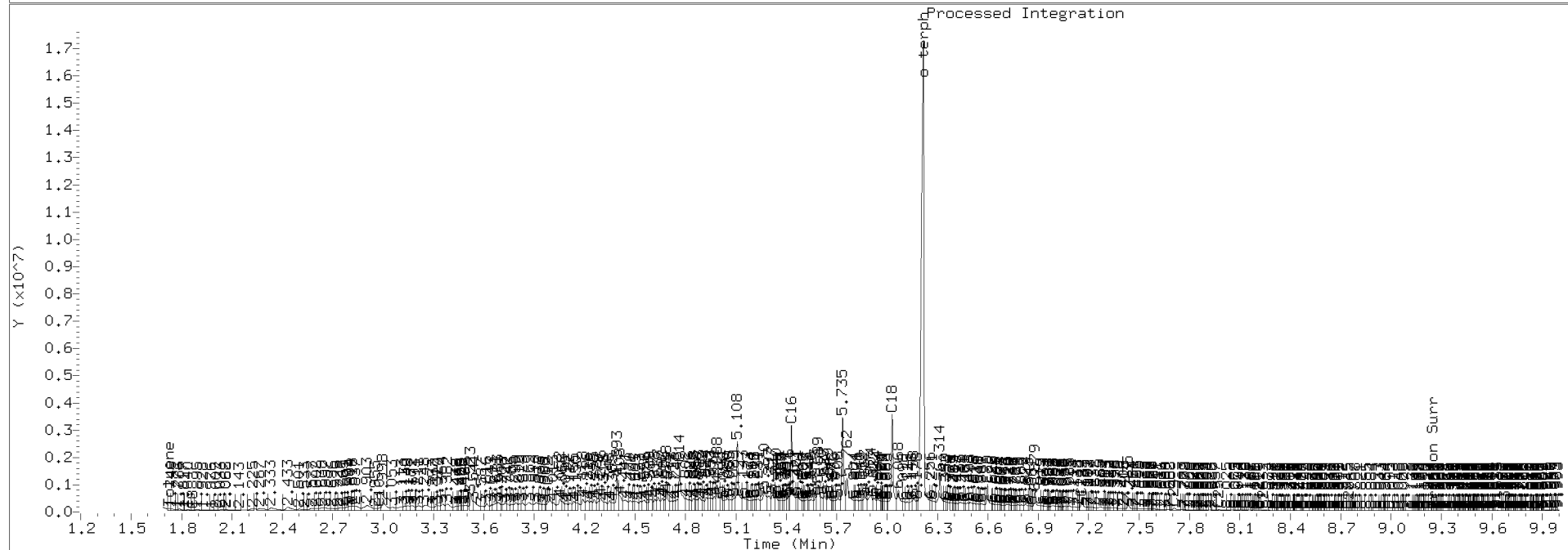
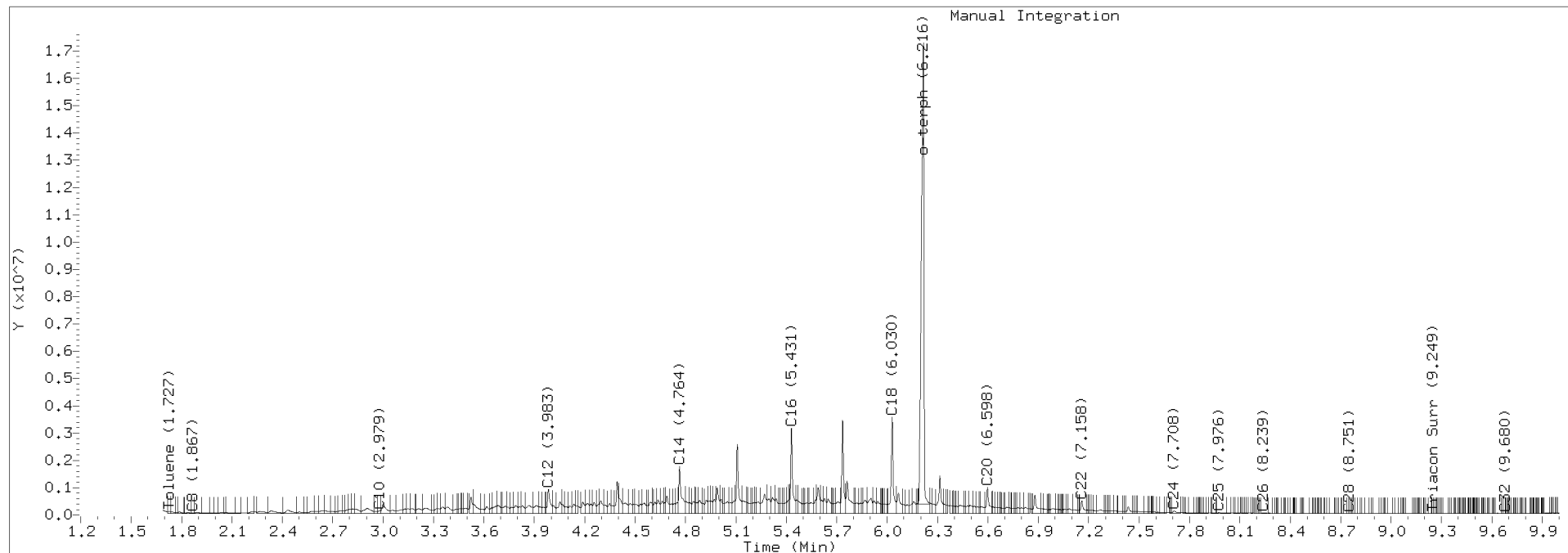
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1023.D Injection: 10-NOV-2020 15:13

Lab ID:SEQ-CCV1





CONTINUING CALIBRATION CHECK NWTPH-Dx

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Instrument ID: <u>FID4</u>	Calibration: <u>DA00022</u>
Lab File ID: <u>420K1024.D</u>	Calibration Date: <u>10/25/2019</u>
Sequence: <u>SIK0149</u>	Injection Date: <u>11/10/20</u>
Lab Sample ID: <u>SIK0149-CCV2</u>	Injection Time: <u>15:33</u>
Sequence Name: <u>MOIL CCV</u>	

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	1000	101166	101148.7		-0.02	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1024.D
Date: 10-NOV-2020 15:33

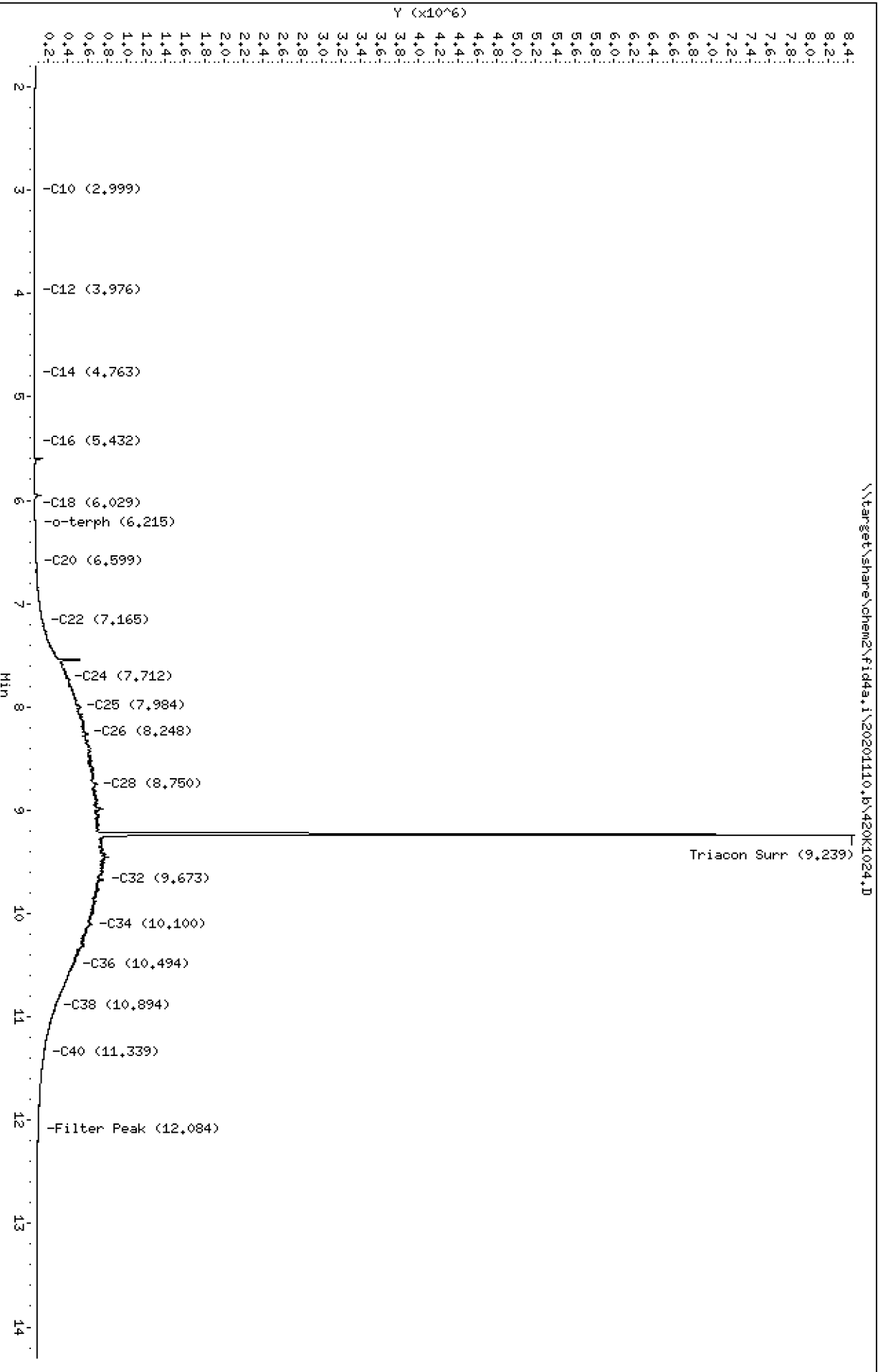
Client ID:
Sample Info: SEQ-CCV2

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1024.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
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: 10-NOV-2020 15:33
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

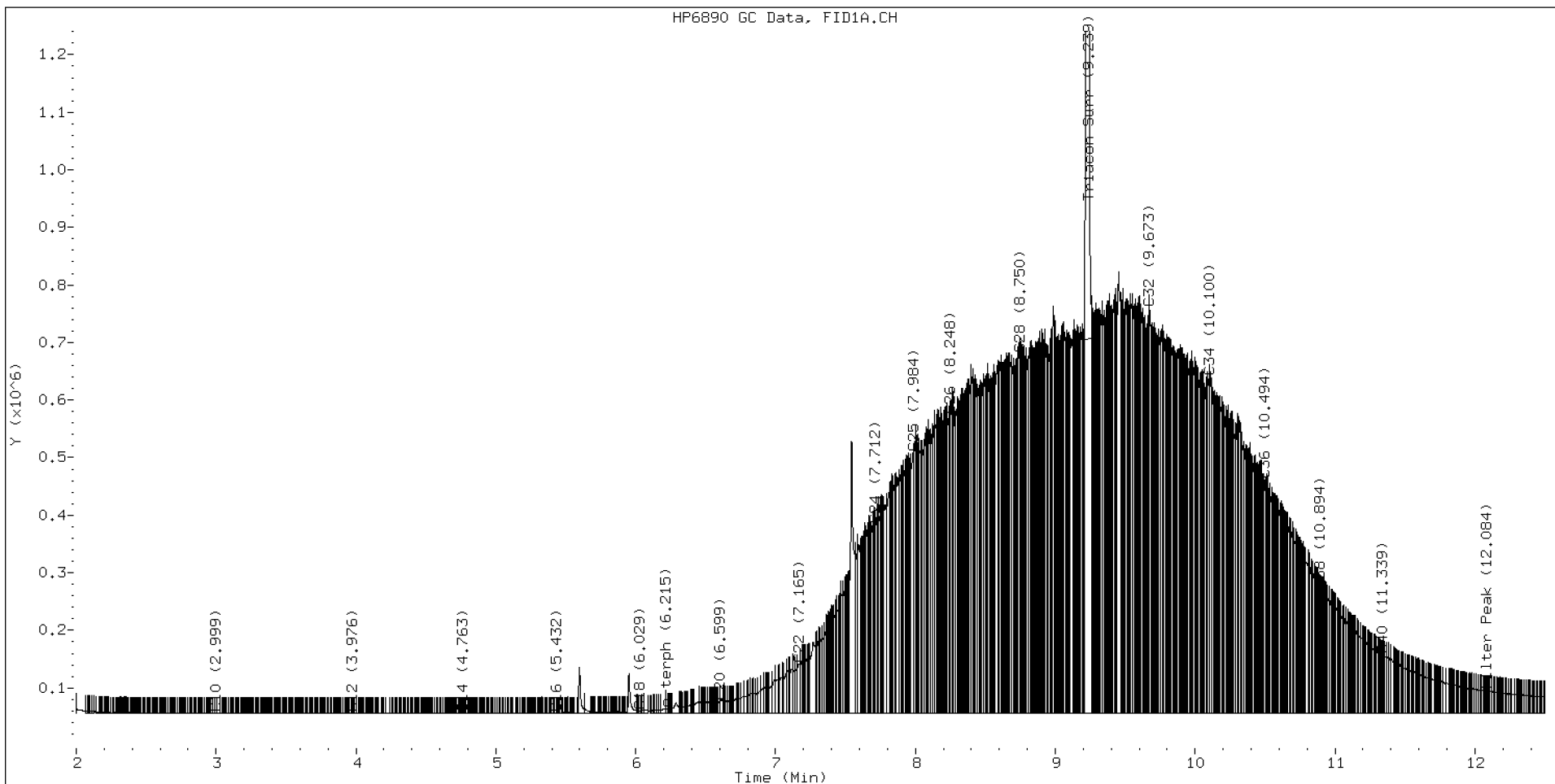
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.844	-0.030	17982	56907	WATPHD	(C12-C24)	9843504	61.8
C10	2.999	0.013	201	125	WATPHM	(C24-C38)	101148663	999.8
C12	3.976	-0.006	546	278	AK102	(C10-C25)	13712797	70.1
C14	4.763	-0.003	1018	404	AK103	(C25-C36)	90942299	1242.3
C16	5.432	-0.001	1570	378	OR.DIES	(C10-C28)	41457952	211.5
C18	6.029	-0.004	5292	4220				
C20	6.599	-0.006	20985	13930	JET-A	(C10-C18)	348452	2.1
C22	7.165	-0.002	86333	111760				
C24	7.712	-0.004	327937	81825				
C25	7.984	-0.001	453797	504885				
C26	8.248	0.002	517217	128707				
C28	8.750	0.000	624979	155726				
C32	9.673	-0.006	704568	683167				
C34	10.100	-0.002	584623	546642				
Filter Peak	12.084	0.001	39210	19500	BUNKERC	(C10-C38)	111020000	2812.3
C36	10.494	-0.008	406141	374395				
C38	10.894	0.003	214724	74763				
C40	11.339	0.001	101571	70137				
o-terph	6.215	-0.003	7960	2748				
Triacon Surr	9.239	-0.014	7761907	8088184	NAS DIES	(C10-C24)	9871337	50.6

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	2748	0.0
Triacontane	8088184	54.5 M

M Indicates the peak was manually integrated

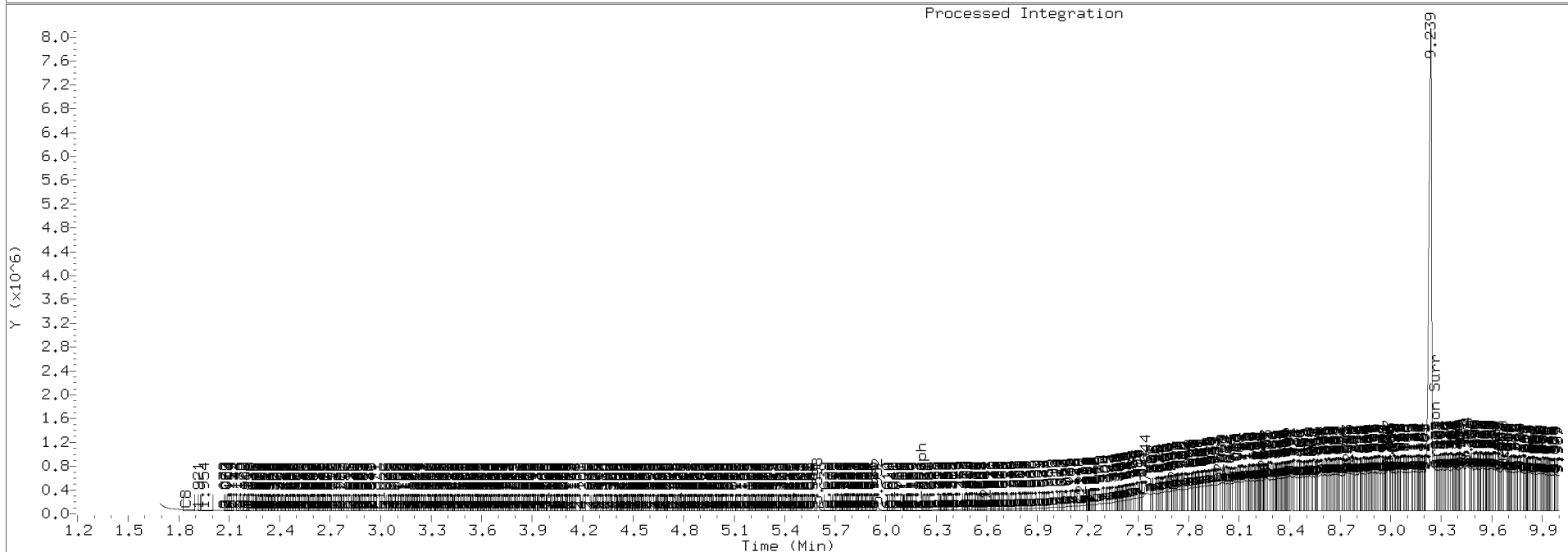
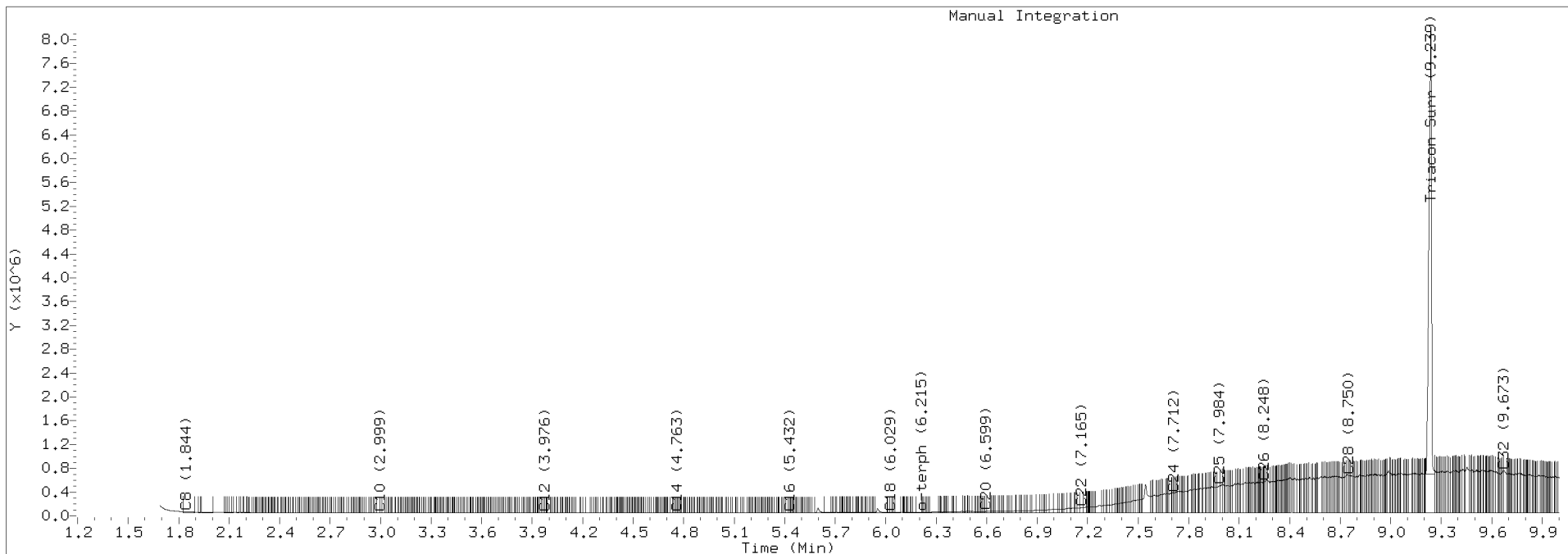
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1024.D Injection: 10-NOV-2020 15:33

Lab ID:SEQ-CCV2



Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1035.D
Date: 10-NOV-2020 19:17

Client ID:

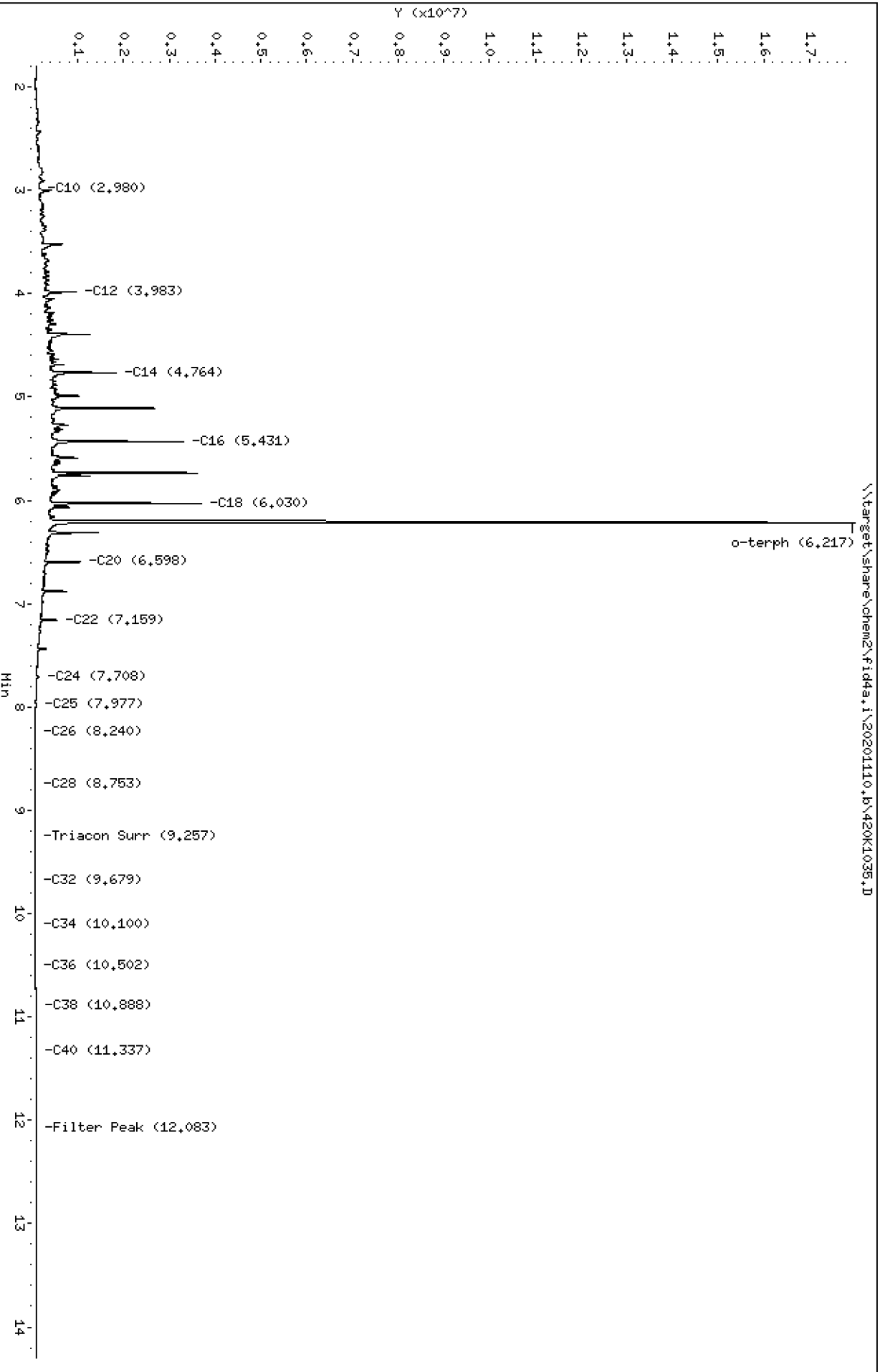
Sample Info: SEQ-CCV3

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1035.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
Macro: 09-SEP-2019
Calibration Dates: Gas:XX-XXX-XXXX Diesel:25-OCT-2019 M.Oil:25-OCT-2019

ARI ID: SEQ-CCV3
Client ID:
Injection: 10-NOV-2020 19:17
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

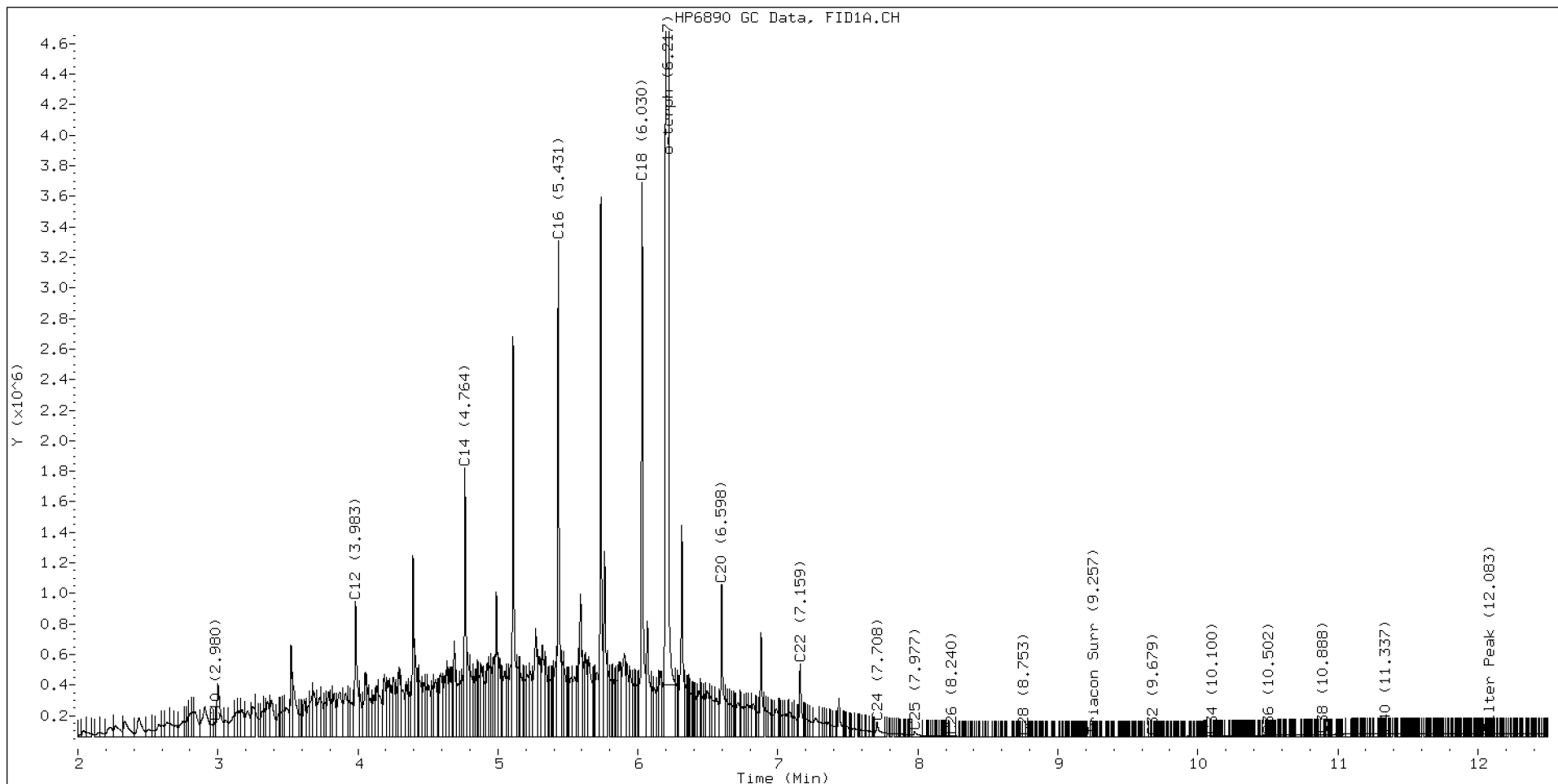
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.873	-0.000	24075	22113	WATPHD	(C12-C24)	75922117	476.5
C10	2.980	-0.005	97258	106013	WATPHM	(C24-C38)	1154572	11.4
C12	3.983	0.002	889608	1075818	AK102	(C10-C25)	88865808	454.6
C14	4.764	-0.002	1764252	1433728	AK103	(C25-C36)	628849	8.6
C16	5.431	-0.002	3246802	2554687	OR.DIES	(C10-C28)	89131970	454.8
C18	6.030	-0.003	3633673	3225765				
C20	6.598	-0.007	1000362	1110871	JET-A	(C10-C18)	69655464	420.0
C22	7.159	-0.008	477299	503593				
C24	7.708	-0.008	95061	190068				
C25	7.977	-0.008	33666	74562				
C26	8.240	-0.006	11931	20257				
C28	8.753	0.003	1718	1442				
C32	9.679	0.001	2401	1276				
C34	10.100	-0.002	5912	3222				
Filter Peak	12.083	-0.001	19798	6901	BUNKERC	(C10-C38)	89845074	2275.9
C36	10.502	-0.000	11213	2790				
C38	10.888	-0.003	16830	18399				
C40	11.337	-0.001	20006	7984				
o-terph	6.217	-0.002	17594190	18346525				
Triacon Surr	9.257	0.003	1045	350	NAS DIES	(C10-C24)	88690502	454.5

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	18346525	89.6 M
Triacontane	350	0.0

M Indicates the peak was manually integrated

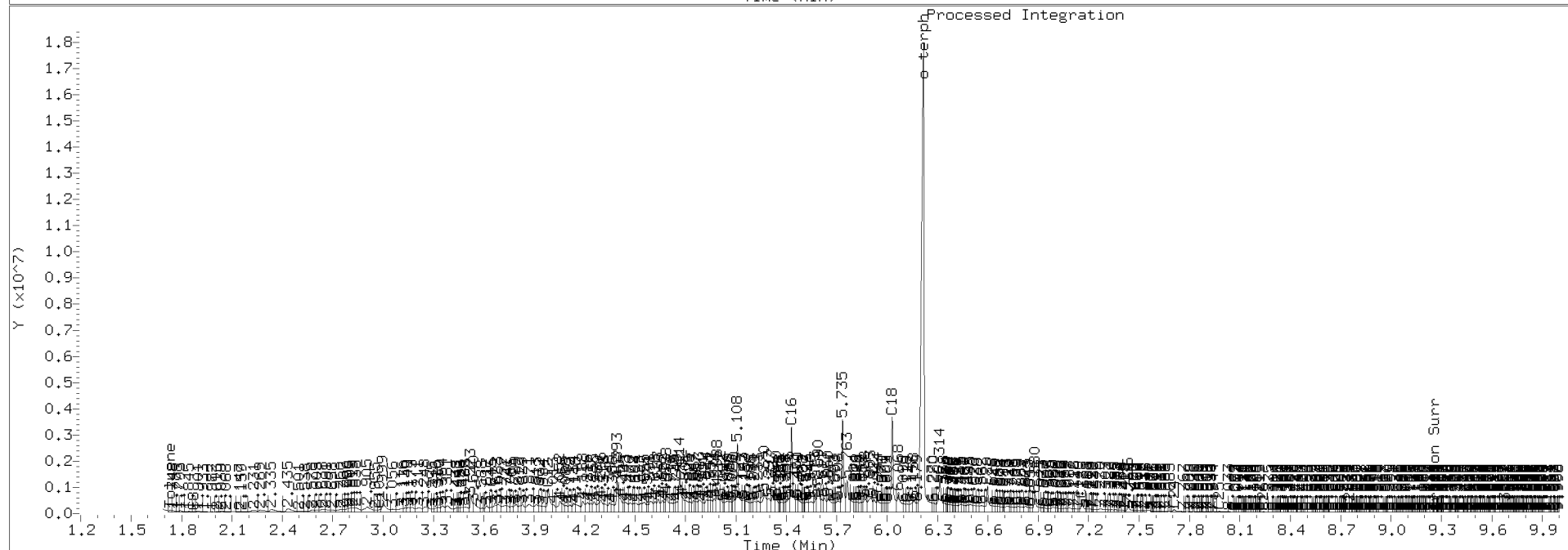
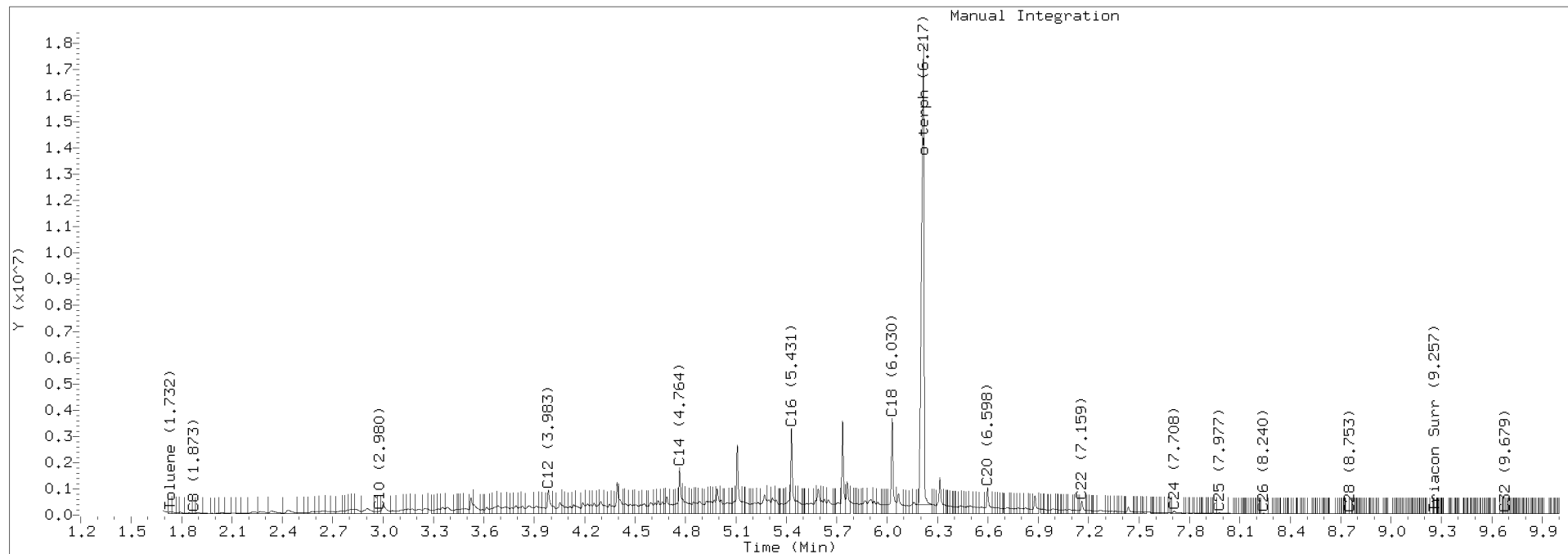
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1035.D Injection: 10-NOV-2020 19:17

Lab ID:SEQ-CCV3





CONTINUING CALIBRATION CHECK NWTPH-Dx

Laboratory: Analytical Resources, Inc. SDG: 20J0385
Client: Anchor QEA, LLC Project: GascoSiltronic
Instrument ID: FID4 Calibration: DA00022
Lab File ID: 420K1036.D Calibration Date: 10/25/2019
Sequence: SIK0149 Injection Date: 11/10/20
Lab Sample ID: SIK0149-CCV4 Injection Time: 19:37
Sequence Name: MOIL CCV

COMPOUND	TYPE	CONC. (mg/L)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Motor Oil Range Organics (C24-C38)	A	1000.0	1000	101166	101160.6		-0.01	+/-15

* Values outside of QC limits

Data File: \\target\share\chem2\fid4a,1\20201110,8\420K1036.D
Date: 10-NOV-2020 19:37

Client ID:

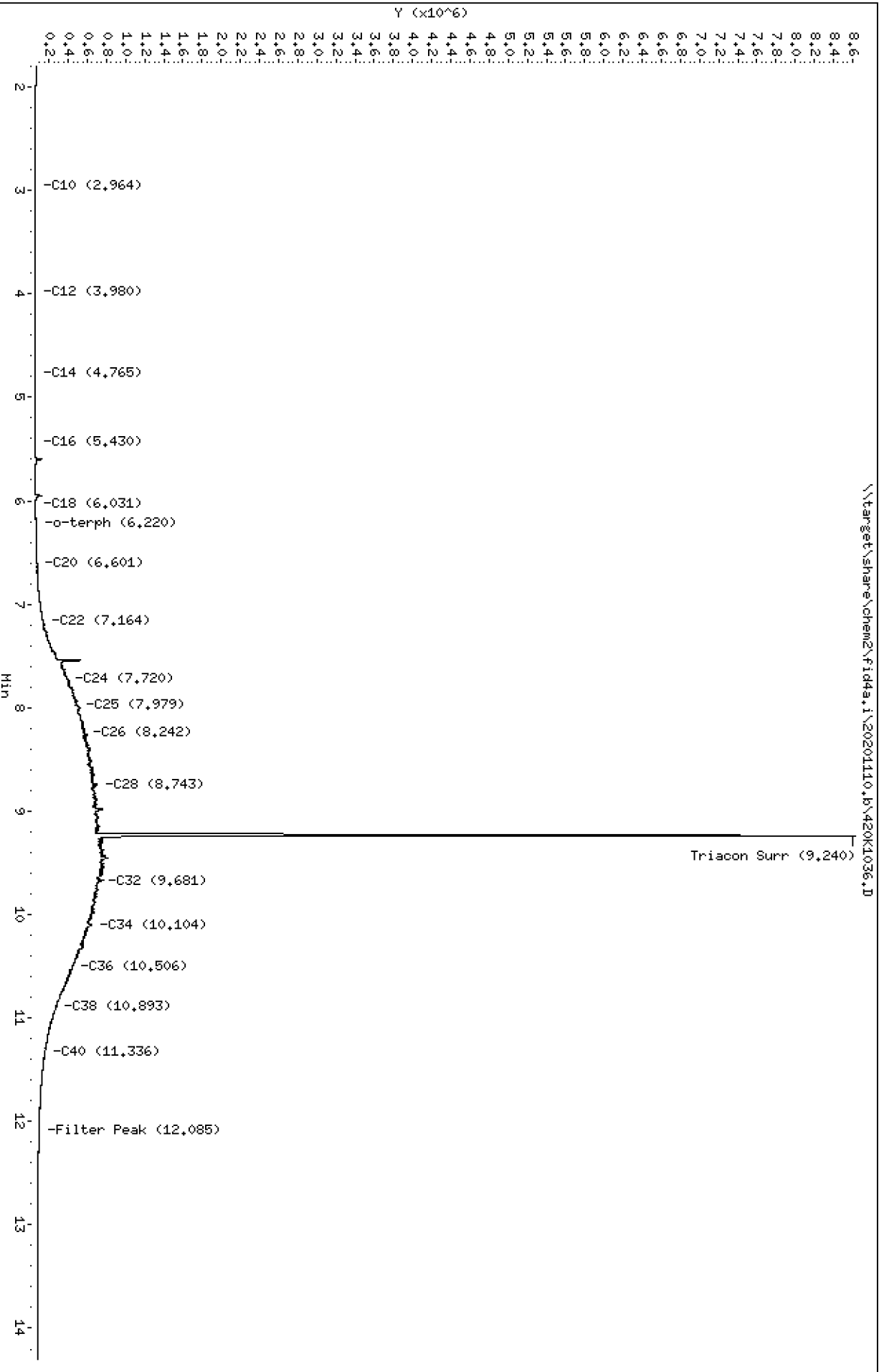
Sample Info: SEQ-CCV4

Column phase: RTX-1

Instrument: fid4a,1

Operator: CTO

Column diameter: 0.25



Analytical Resources Inc.
TPH Quantitation Report

Data file: 20201110.b/420K1036.D
Method: 20201110.b\FID4TPH.m
Instrument: fid4a.i, CTO
Report Date: 11/17/2020
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: 10-NOV-2020 19:37
Dilution Factor: 1
RT Std: 419H1603.D

FID:4A RESULTS

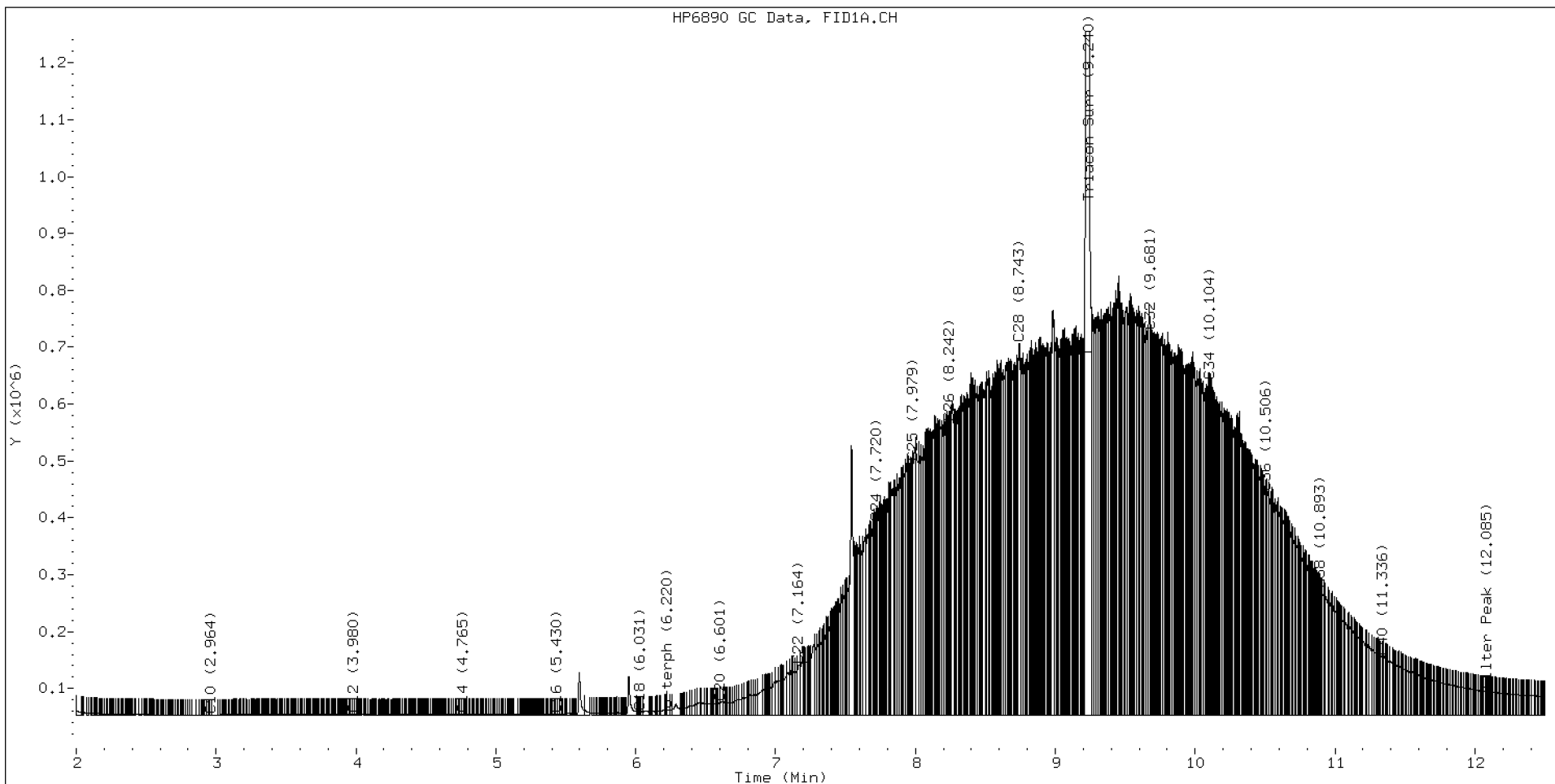
Compound	RT	Shift	Height	Area	Method	Range	Total Area	Conc (mg/L)
C8	1.841	-0.032	15971	53181	WATPHD	(C12-C24)	9668154	60.7
C10	2.964	-0.021	342	216	WATPHM	(C24-C38)	101160592	999.9
C12	3.980	-0.001	1085	463	AK102	(C10-C25)	13619955	69.7
C14	4.765	-0.001	1437	829	AK103	(C25-C36)	90752475	1239.7
C16	5.430	-0.003	2179	1817	OR.DIES	(C10-C28)	41453279	211.5
C18	6.031	-0.001	5789	1721				
C20	6.601	-0.003	21523	14416	JET-A	(C10-C18)	411393	2.5
C22	7.164	-0.003	88034	114384				
C24	7.720	0.004	337647	116702				
C25	7.979	-0.006	443454	262023				
C26	8.242	-0.004	513672	280955				
C28	8.743	-0.007	652934	872132				
C32	9.681	0.003	675180	301756				
C34	10.104	0.002	586228	173997				
Filter Peak	12.085	0.001	40974	10231	BUNKERC	(C10-C38)	110868528	2808.4
C36	10.506	0.004	390843	213861				
C38	10.893	0.002	220753	130473				
C40	11.336	-0.001	102386	45713				
o-terph	6.220	0.002	8260	2860				
Triacon Surr	9.240	-0.014	7938629	8153399	NAS DIES	(C10-C24)	9707937	49.7

Range Times: NW Diesel(3.982 - 7.716) AK102(2.99 - 7.98) Jet A(2.99 - 6.03)
NW M.Oil(7.72 - 10.89) AK103(7.98 - 10.50) OR Diesel(2.99 - 8.75)

Surrogate	Area	Amount
o-Terphenyl	2860	0.0
Triacontane	8153399	55.0 M

M Indicates the peak was manually integrated

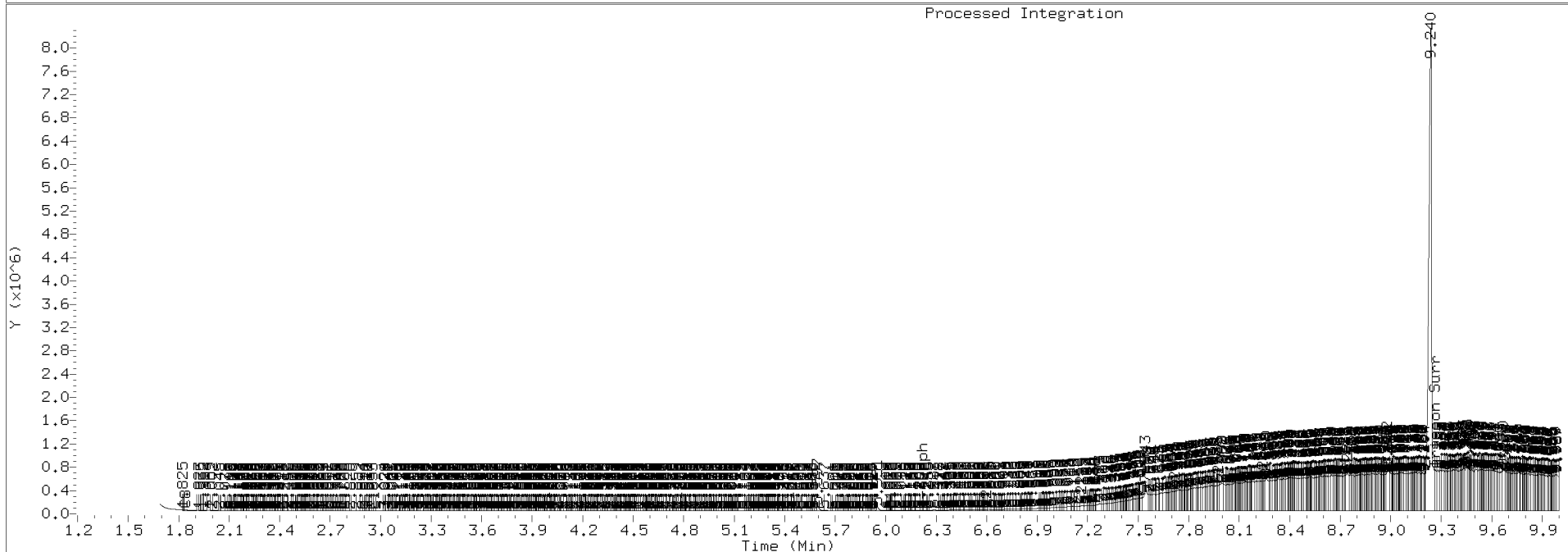
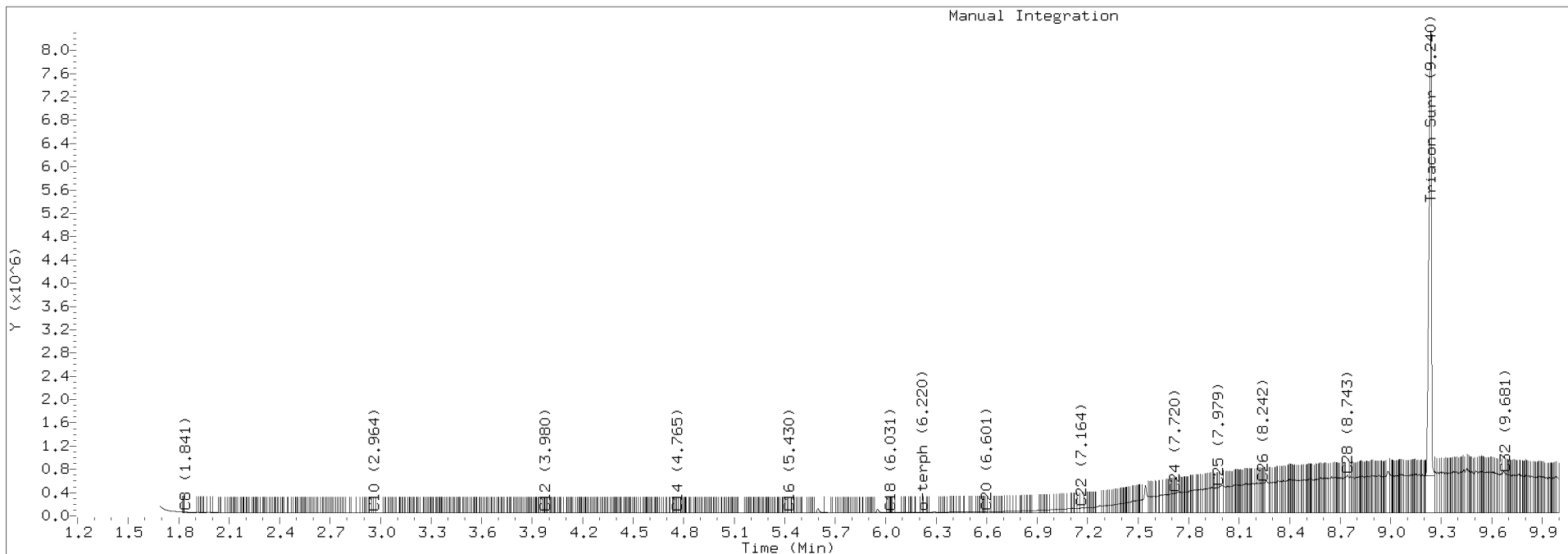
Analyte	RF	Curve Date
o-Terph Surr	204701.9	25-OCT-2019
Triacon Surr	148377.1	25-OCT-2019
Gas	15000.0	XX-XXX-XXXX
Diesel	159336.7	25-OCT-2019
Motor Oil	101166.0	25-OCT-2019
AK102	195491.2	25-OCT-2019
AK103	73206.5	25-OCT-2019
JetA	165849.0	20-MAY-2020
OR Diesel	195999.1	25-OCT-2019
NAS Diesel	195148.2	25-OCT-2019
Bunker C	39477.2	13-MAR-2020



TPH Manual Integrations Report

Datafile: FID4A, 20201110.b/420K1036.D Injection: 10-NOV-2020 19:37

Lab ID:SEQ-CCV4





ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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

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		



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	jrains, 30-Oct-2019 07:20
419J2508.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2509.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2510.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2511.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2512.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2513.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2514.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2515.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2516.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2517.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2518.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2519.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2520.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2521.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2522.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2523.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2524.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2525.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2526.D	Data Locked	jrains, 30-Oct-2019 07:20
419J2527.D	Data Locked	jrains, 30-Oct-2019 07:20



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIF0018

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIF0018-IBL1	420F0203.D	NA	06/02/20 08:19
Instrument Blank	SIF0018-IBL2	420F0204.D	NA	06/02/20 08:38
MOIL 100	SIF0018-CAL1	420F0205.D	NA	06/02/20 08:58
MOIL 250	SIF0018-CAL2	420F0206.D	NA	06/02/20 09:17
MOIL 500	SIF0018-CAL3	420F0207.D	NA	06/02/20 09:37
MOIL 1000	SIF0018-CAL4	420F0208.D	NA	06/02/20 09:56
MOIL 2500	SIF0018-CAL5	420F0209.D	NA	06/02/20 10:16
MOIL 5000	SIF0018-CAL6	420F0210.D	NA	06/02/20 10:36
MOIL SCV	SIF0018-SCV1	420F0211.D	NA	06/02/20 10:55



ANALYSIS SEQUENCE

SIF0018

Instrument: FID4
Calibration ID: DA00022

Printed: 6/2/2020 12:49:08PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIF0018-IBL1	QC		1		H010802			
SIF0018-IBL2	QC		2		I000651			
SIF0018-CAL1	QC		3		I004752			
SIF0018-CAL2	QC		4		I004753			
SIF0018-CAL3	QC		5		I004754			
SIF0018-CAL4	QC		6		I004755			
SIF0018-CAL5	QC		7		I004756			
SIF0018-CAL6	QC		8		I003778			
SIF0018-SCV1	QC		9		I004757			

Samples Loaded By Date

Data Processed By Date

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: 20J0385

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



ANALYSIS SEQUENCE

SIH0092

Instrument: FID4
Calibration ID: DA00022

Printed: 8/10/2020 2:51:30PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIH0092-IBL1	QC		1		I006239			
SIH0092-IBL2	QC		2		I006241			
SIH0092-CAL1	QC		3		I006988			
SIH0092-CAL2	QC		4		I006987			
SIH0092-CAL3	QC		5		I006986			
SIH0092-CAL4	QC		6		I006985			
SIH0092-CAL5	QC		7		I006984			
SIH0092-CAL6	QC		8		I006965			

Samples Loaded By Date

Data Processed By Date

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: 20J0385

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
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
JETA CAL	SIH0165-CAL1	420H1416.D	NA	08/14/20 12:58
ZZZZZ	BIH0255-BLK1	420H1417.D	Water	08/14/20 13:17
ZZZZZ	BIH0255-BS1	420H1418.D	Water	08/14/20 13:37
ZZZZZ	BIH0255-BSD1	420H1419.D	Water	08/14/20 13:56
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	BIH0199-BLK1	420H1424.D	Water	08/14/20 15:34
ZZZZZ	BIH0199-BS1	420H1425.D	Water	08/14/20 15:54
ZZZZZ	BIH0199-BSD1	420H1426.D	Water	08/14/20 16:14
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	BIH0218-BLK1	420H1434.D	Water	08/14/20 18:51
ZZZZZ	BIH0218-BS1	420H1435.D	Water	08/14/20 19:10
ZZZZZ	BIH0218-BSD1	420H1436.D	Water	08/14/20 19:30
ZZZZZ	20H0114-01	420H1437.D	Water	08/14/20 19:49
ZZZZZ	20H0114-02	420H1438.D	Water	08/14/20 20:09



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIH0165

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BIH0216-BLK1	420H1439.D	Solid	08/14/20 20:29
ZZZZZ	BIH0216-BS1	420H1440.D	Solid	08/14/20 20:48
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
DIESEL CCV	SIH0165-CCV7	420H1445.D	NA	08/14/20 22:26
MOIL CCV	SIH0165-CCV8	420H1446.D	NA	08/14/20 22:45



ANALYSIS SEQUENCE

SIH0165

Instrument: NT8
Calibration ID: DG00082

Printed: 8/14/2020 2:00:25PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIH0165-IBL1	QC		1		I006239			
SIH0165-IBL2	QC		2		I006241			
SIH0165-ICV1	QC		3		I002687			
SIH0165-ICV2	QC		4		I004755			
SIH0165-ICV3	QC		5		I006985			
BIH0223-BLK1	QC		6					
BIH0223-BS1	QC		7					
20H0120-01	TPH NW (Extractables)	A 01	8				Flatiron Corporation	Version
20H0120-02	TPH NW (Extractables)	A 01	9				Flatiron Corporation	Version
20H0120-03	TPH NW (Extractables)	A 01	10				Flatiron Corporation	Version
SIH0165-CCV1	QC		11		I002687			
SIH0165-CCV2	QC		12		I004755			
SIH0165-CCV3	QC		13		I006985			

Samples Loaded By Date

Data Processed By Date

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: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0042

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIJ0042-IBL1	420J0203.D	NA	10/02/20 09:21
Instrument Blank	SIJ0042-IBL2	420J0204.D	NA	10/02/20 09:42
DIESEL ICV	SIJ0042-ICV1	420J0205.D	NA	10/02/20 10:02
MOIL ICV	SIJ0042-ICV2	420J0206.D	NA	10/02/20 10:22
A/S CREOSOTE 100	SIJ0042-CAL1	420J0207.D	NA	10/02/20 10:43
A/S CREOSOTE 250	SIJ0042-CAL2	420J0208.D	NA	10/02/20 11:04
A/S CREOSOTE 500	SIJ0042-CAL3	420J0209.D	NA	10/02/20 11:24
A/S CREOSOTE 1000	SIJ0042-CAL4	420J0210.D	NA	10/02/20 11:45
A/S CREOSOTE 2500	SIJ0042-CAL5	420J0211.D	NA	10/02/20 12:05
A/S CREOSOTE 5000	SIJ0042-CAL6	420J0212.D	NA	10/02/20 12:26
A/S CREOSOTE ICV	SIJ0042-ICV3	420J0213.D	NA	10/02/20 12:46
ZZZZZ	BII0597-BLK1	420J0214.D	Water	10/02/20 13:07
ZZZZZ	BII0597-BS1	420J0215.D	Water	10/02/20 13:27
ZZZZZ	BII0597-BSD1	420J0216.D	Water	10/02/20 13:48
ZZZZZ	20I0229-02	420J0217.D	Water	10/02/20 14:08
ZZZZZ	20I0229-03	420J0218.D	Water	10/02/20 14:29
ZZZZZ	20I0229-04	420J0219.D	Water	10/02/20 14:50
ZZZZZ	20I0229-05	420J0220.D	Water	10/02/20 15:10
ZZZZZ	20I0229-06	420J0221.D	Water	10/02/20 15:31
ZZZZZ	20I0229-07	420J0222.D	Water	10/02/20 15:51
ZZZZZ	20I0229-08	420J0223.D	Water	10/02/20 16:12
ZZZZZ	20I0229-09	420J0224.D	Water	10/02/20 16:32
ZZZZZ	20I0229-10	420J0225.D	Water	10/02/20 16:52
ZZZZZ	20I0229-11	420J0226.D	Water	10/02/20 17:13
DIESEL CCV	SIJ0042-CCV1	420J0227.D	NA	10/02/20 17:33
MOIL CCV	SIJ0042-CCV2	420J0228.D	NA	10/02/20 17:54
A/S CREOSOTE CCV	SIJ0042-CCV3	420J0229.D	NA	10/02/20 18:14
ZZZZZ	20I0229-12	420J0230.D	Water	10/02/20 18:35
ZZZZZ	20I0229-13	420J0231.D	Water	10/02/20 18:55
ZZZZZ	20I0229-14	420J0232.D	Water	10/02/20 19:16



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0042

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	20I0229-15	420J0233.D	Water	10/02/20 19:36
ZZZZZ	20I0229-16	420J0234.D	Water	10/02/20 19:57
ZZZZZ	20I0307-01	420J0235.D	Water	10/02/20 20:17
ZZZZZ	20I0307-02	420J0236.D	Water	10/02/20 20:37
ZZZZZ	20I0307-03	420J0237.D	Water	10/02/20 20:58
ZZZZZ	20I0307-04	420J0238.D	Water	10/02/20 21:18
DIESEL CCV	SIJ0042-CCV4	420J0239.D	NA	10/02/20 21:39
MOIL CCV	SIJ0042-CCV5	420J0240.D	NA	10/02/20 21:59
A/S CREOSOTE CCV	SIJ0042-CCV6	420J0241.D	NA	10/02/20 22:20
ZZZZZ	20I0350-01	420J0242.D	Water	10/02/20 22:40
ZZZZZ	20I0350-02	420J0243.D	Water	10/02/20 23:00
ZZZZZ	20I0350-03	420J0244.D	Water	10/02/20 23:21
ZZZZZ	20I0350-04	420J0245.D	Water	10/02/20 23:41
ZZZZZ	20I0350-05	420J0246.D	Water	10/03/20 00:02
ZZZZZ	20I0350-06	420J0247.D	Water	10/03/20 00:22
ZZZZZ	20I0350-07	420J0248.D	Water	10/03/20 00:42
ZZZZZ	20I0217-01	420J0249.D	Water	10/03/20 01:03
ZZZZZ	20I0217-02	420J0250.D	Water	10/03/20 01:23
DIESEL CCV	SIJ0042-CCV7	420J0252.D	NA	10/03/20 02:04
MOIL CCV	SIJ0042-CCV8	420J0253.D	NA	10/03/20 02:24



ANALYSIS SEQUENCE

SIJ0042

Instrument: FID4
Calibration ID: DA00022

Printed: 10/11/2020 10:46:24AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIJ0042-IBL1	QC		1		I006239			
SIJ0042-IBL2	QC		2		I006241			
SIJ0042-ICV1	QC		3		I008275			
SIJ0042-ICV2	QC		4		I008935			
SIJ0042-CAL1	QC		5		I009068			
SIJ0042-CAL2	QC		6		I009067			
SIJ0042-CAL3	QC		7		I009066			
SIJ0042-CAL4	QC		8		I009064			
SIJ0042-CAL5	QC		9		I009065			
SIJ0042-CAL6	QC		10		I009005			
SIJ0042-ICV3	QC		11		I009064			
BII0597-BLK1	QC		12					
BII0597-BS1	QC		13					
BII0597-BSD1	QC		14					
20I0229-02	PH NW (Extractables) low lev	C 01	15				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-03	PH NW (Extractables) low lev	C 01	16				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-04	PH NW (Extractables) low lev	C 01	17				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-05	PH NW (Extractables) low lev	C 01	18				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-06	PH NW (Extractables) low lev	C 01	19				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-07	PH NW (Extractables) low lev	C 01	20				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-08	PH NW (Extractables) low lev	C 01	21				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san

Samples Loaded By

Date

Data Processed By

Date



ANALYSIS SEQUENCE

SIJ0042

Instrument: FID4
Calibration ID: DA00022

Printed: 10/11/2020 10:46:24AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
20I0229-09	PH NW (Extractables) low lev	C 01	22				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-10	PH NW (Extractables) low lev	C 01	23				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-11	PH NW (Extractables) low lev	C 01	24				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
SIJ0042-CCV1	QC		25		I008275			
SIJ0042-CCV2	QC		26		I008935			
SIJ0042-CCV3	QC		27		I009064			
20I0229-12	PH NW (Extractables) low lev	C 01	28				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-13	PH NW (Extractables) low lev	C 01	29				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-14	PH NW (Extractables) low lev	C 01	30				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-15	PH NW (Extractables) low lev	C 01	31				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0229-16	PH NW (Extractables) low lev	C 01	32				Landau Associates, Inc.	Plus Creosote, Acid cleaned. Some san
20I0307-01	PH NW (Extractables) low lev	O 01	33				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
20I0307-02	PH NW (Extractables) low lev	O 01	34				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
20I0307-03	PH NW (Extractables) low lev	O 01	35				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
20I0307-04	PH NW (Extractables) low lev	O 01	36				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
SIJ0042-CCV4	QC		37		I008275			
SIJ0042-CCV5	QC		38		I008935			
SIJ0042-CCV6	QC		39		I009064			
20I0350-01	PH NW (Extractables) low lev	A 01	40				Geosyntec Consultants	
20I0350-02	PH NW (Extractables) low lev	A 01	41				Geosyntec Consultants	
20I0350-03	PH NW (Extractables) low lev	A 01	42				Geosyntec Consultants	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SIJ0042

Instrument: FID4
Calibration ID: DA00022

Printed: 10/11/2020 10:46:24AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
20I0350-04	PH NW (Extractables) low lev	A 01	43				Geosyntec Consultants	
20I0350-05	PH NW (Extractables) low lev	A 01	44				Geosyntec Consultants	
20I0350-06	PH NW (Extractables) low lev	A 01	45				Geosyntec Consultants	
20I0350-07	PH NW (Extractables) low lev	A 01	46				Geosyntec Consultants	
20I0217-01	PH NW (Extractables) low lev	K 01	47				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
20I0217-02	PH NW (Extractables) low lev	K 01	48				Joint Base Lewis McChord- Fort Lewis WA	Clin 1004
SIJ0042-CCV7	QC		49		I008275			
SIJ0042-CCV8	QC		50		I008935			

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20201002.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	02-OCT-2020	08:41	420J0201.D	1	RINSE	
2	02-OCT-2020	09:01	420J0202.D	1	RINSE	
3	02-OCT-2020	09:21	420J0203.D	1	SEQ-IBL1	
4	02-OCT-2020	09:42	420J0204.D	1	SEQ-IBL2	
5	02-OCT-2020	10:02	420J0205.D	1	SEQ-ICV1	
6	02-OCT-2020	10:22	420J0206.D	1	SEQ-ICV2	
7	02-OCT-2020	10:43	420J0207.D	1	SEQ-CAL1	
8	02-OCT-2020	11:04	420J0208.D	1	SEQ-CAL2	
9	02-OCT-2020	11:24	420J0209.D	1	SEQ-CAL3	
10	02-OCT-2020	11:45	420J0210.D	1	SEQ-CAL4	
11	02-OCT-2020	12:05	420J0211.D	1	SEQ-CAL5	
12	02-OCT-2020	12:26	420J0212.D	1	SEQ-CAL6	
13	02-OCT-2020	12:46	420J0213.D	1	SEQ-ICV3	
14	02-OCT-2020	13:07	420J0214.D	1	BII0597-BLK1	
15	02-OCT-2020	13:27	420J0215.D	1	BII0597-BS1	
16	02-OCT-2020	13:48	420J0216.D	1	BII0597-BSD1	
17	02-OCT-2020	14:08	420J0217.D	1	20I0229-02	
18	02-OCT-2020	14:29	420J0218.D	1	20I0229-03	
19	02-OCT-2020	14:50	420J0219.D	1	20I0229-04	
20	02-OCT-2020	15:10	420J0220.D	1	20I0229-05	
21	02-OCT-2020	15:31	420J0221.D	1	20I0229-06	
22	02-OCT-2020	15:51	420J0222.D	1	20I0229-07	
23	02-OCT-2020	16:12	420J0223.D	1	20I0229-08	
24	02-OCT-2020	16:32	420J0224.D	1	20I0229-09	
25	02-OCT-2020	16:52	420J0225.D	1	20I0229-10	
26	02-OCT-2020	17:13	420J0226.D	1	20I0229-11	
27	02-OCT-2020	17:33	420J0227.D	1	SEQ-CCV1	
28	02-OCT-2020	17:54	420J0228.D	1	SEQ-CCV2	
29	02-OCT-2020	18:14	420J0229.D	1	SEQ-CCV3	
30	02-OCT-2020	18:35	420J0230.D	1	20I0229-12	
31	02-OCT-2020	18:55	420J0231.D	1	20I0229-13	
32	02-OCT-2020	19:16	420J0232.D	1	20I0229-14	
33	02-OCT-2020	19:36	420J0233.D	1	20I0229-15	
34	02-OCT-2020	19:57	420J0234.D	1	20I0229-16	
35	02-OCT-2020	20:17	420J0235.D	1	20I0307-01	
36	02-OCT-2020	20:37	420J0236.D	1	20I0307-02	
37	02-OCT-2020	20:58	420J0237.D	1	20I0307-03	
38	02-OCT-2020	21:18	420J0238.D	1	20I0307-04	
39	02-OCT-2020	21:39	420J0239.D	1	SEQ-CCV4	
40	02-OCT-2020	21:59	420J0240.D	1	SEQ-CCV5	
41	02-OCT-2020	22:20	420J0241.D	1	SEQ-CCV6	
42	02-OCT-2020	22:40	420J0242.D	1	20I0350-01	
43	02-OCT-2020	23:00	420J0243.D	1	20I0350-02	
44	02-OCT-2020	23:21	420J0244.D	1	20I0350-03	
45	02-OCT-2020	23:41	420J0245.D	1	20I0350-04	
46	03-OCT-2020	00:02	420J0246.D	1	20I0350-05	
47	03-OCT-2020	00:22	420J0247.D	1	20I0350-06	
48	03-OCT-2020	00:42	420J0248.D	1	20I0350-07	
49	03-OCT-2020	01:03	420J0249.D	1	20I0217-01	
50	03-OCT-2020	01:23	420J0250.D	200	20I0217-02	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201002.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	03-OCT-2020	01:44	420J0251.D	50	20I0217-02	
52	03-OCT-2020	02:04	420J0252.D	1	SEQ-CCV7	
53	03-OCT-2020	02:24	420J0253.D	1	SEQ-CCV8	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201002.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 02-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0841	420J0201.D	RINSE		1	NO MANUAL INTEGRATION
0901	420J0202.D	RINSE		1	NO MANUAL INTEGRATION
0921	420J0203.D	SEQ-IBL1		1	C40, Triacon Surr,
0942	420J0204.D	SEQ-IBL2		1	Triacon Surr,
1002	420J0205.D	SEQ-ICV1		1	o-terph,
1022	420J0206.D	SEQ-ICV2		1	Triacon Surr,
1043	420J0207.D	SEQ-CAL1		1	o-terph,
1104	420J0208.D	SEQ-CAL2		1	o-terph,
1124	420J0209.D	SEQ-CAL3		1	o-terph,
1145	420J0210.D	SEQ-CAL4		1	o-terph,
1205	420J0211.D	SEQ-CAL5		1	o-terph,
1226	420J0212.D	SEQ-CAL6		1	o-terph,
1246	420J0213.D	SEQ-ICV3		1	o-terph,
1307	420J0214.D	BII0597-BLK1		1	Triacon Surr,
1327	420J0215.D	BII0597-BS1		1	o-terph,
1348	420J0216.D	BII0597-BSD1		1	o-terph,
1408	420J0217.D	20I0229-02		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201002.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1429	420J0218.D	20I0229-03	1		NO MANUAL INTEGRATION
1450	420J0219.D	20I0229-04	1		NO MANUAL INTEGRATION
1510	420J0220.D	20I0229-05	1		NO MANUAL INTEGRATION
1531	420J0221.D	20I0229-06	1		NO MANUAL INTEGRATION
1551	420J0222.D	20I0229-07	1		Triacon Surr,
1612	420J0223.D	20I0229-08	1		NO MANUAL INTEGRATION
1632	420J0224.D	20I0229-09	1		NO MANUAL INTEGRATION
1652	420J0225.D	20I0229-10	1		NO MANUAL INTEGRATION
1713	420J0226.D	20I0229-11	1		NO MANUAL INTEGRATION
1733	420J0227.D	SEQ-CCV1	1		o-terph,
1754	420J0228.D	SEQ-CCV2	1		Triacon Surr,
1814	420J0229.D	SEQ-CCV3	1		o-terph,
1835	420J0230.D	20I0229-12	1		NO MANUAL INTEGRATION
1855	420J0231.D	20I0229-13	1		NO MANUAL INTEGRATION
1916	420J0232.D	20I0229-14	1		NO MANUAL INTEGRATION
1936	420J0233.D	20I0229-15	1		NO MANUAL INTEGRATION
1957	420J0234.D	20I0229-16	1		o-terph,
2017	420J0235.D	20I0307-01	1		o-terph, Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201002.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2037	420J0236.D	20I0307-02	1	o-terph,	Triacon Surr,
2058	420J0237.D	20I0307-03	1	o-terph,	Triacon Surr,
2118	420J0238.D	20I0307-04	1	o-terph,	Triacon Surr,
2139	420J0239.D	SEQ-CCV4	1	o-terph,	
2159	420J0240.D	SEQ-CCV5	1	Triacon Surr,	
2220	420J0241.D	SEQ-CCV6	1	o-terph,	
2240	420J0242.D	20I0350-01	1	NO MANUAL INTEGRATION	
2300	420J0243.D	20I0350-02	1	o-terph,	
2321	420J0244.D	20I0350-03	1	o-terph,	
2341	420J0245.D	20I0350-04	1	o-terph,	Triacon Surr,
0002	420J0246.D	20I0350-05	1	o-terph,	
0022	420J0247.D	20I0350-06	1	o-terph,	
0042	420J0248.D	20I0350-07	1	o-terph,	Triacon Surr,
0103	420J0249.D	20I0217-01	1	o-terph,	Triacon Surr,
0123	420J0250.D	20I0217-02	200	o-terph,	Triacon Surr,
0144	420J0251.D	20I0217-02	50	NO MANUAL INTEGRATION	
0204	420J0252.D	SEQ-CCV7	1	o-terph,	
0224	420J0253.D	SEQ-CCV8	1	Triacon Surr,	

420J0245.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0246.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0247.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0248.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0249.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0250.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0251.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0252.D	Data Locked	christopher, 11-Oct-2020 10:45
420J0253.D	Data Locked	christopher, 11-Oct-2020 10:45



Analytical Resources, Incorporated
Analytical Chemists and Consultants

Extract Dilution Bench Sheet

Sequence: SII0042
Analyst: CTO Date: _____

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
2010217-02	5	DCM	995	200				
2010217-02	20	DCM	980	50				



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0016

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIK0016-IBL1	420K0203.D	NA	11/02/20 09:10
Instrument Blank	SIK0016-IBL2	420K0204.D	NA	11/02/20 09:30
DIESEL ICV	SIK0016-ICV1	420K0205.D	NA	11/02/20 09:50
MOIL ICV	SIK0016-ICV2	420K0206.D	NA	11/02/20 10:10
A/S LANDAU BUNKER C 100	SIK0016-CAL1	420K0207.D	NA	11/02/20 10:31
A/S LANDAU BUNKER C 250	SIK0016-CAL2	420K0208.D	NA	11/02/20 10:51
A/S LANDAU BUNKER C 500	SIK0016-CAL3	420K0209.D	NA	11/02/20 11:11
A/S LANDAU BUNKER C 1000	SIK0016-CAL4	420K0210.D	NA	11/02/20 11:32
A/S LANDAU BUNKER C 2500	SIK0016-CAL5	420K0211.D	NA	11/02/20 11:52
A/S LANDAU BUNKER C 5000	SIK0016-CAL6	420K0212.D	NA	11/02/20 12:13
A/S LANDAU BUNKER C	SIK0016-ICV3	420K0213.D	NA	11/02/20 12:33
ZZZZZ	20J0250-02	420K0214.D	Solid	11/02/20 12:53
ZZZZZ	20J0265-01	420K0215.D	Water	11/02/20 13:14
DIESEL CCV	SIK0016-CCV1	420K0216.D	NA	11/02/20 13:34
MOIL CCV	SIK0016-CCV2	420K0217.D	NA	11/02/20 13:55
A/S LANDAU BUNKER C	SIK0016-CCV3	420K0218.D	NA	11/02/20 14:15
ZZZZZ	BIJ0617-BLK1	420K0219.D	Water	11/02/20 14:36
ZZZZZ	BIJ0617-BS1	420K0220.D	Water	11/02/20 14:56
ZZZZZ	BIJ0617-BSD1	420K0221.D	Water	11/02/20 15:17
ZZZZZ	20J0265-02	420K0224.D	Water	11/02/20 16:18
ZZZZZ	20J0265-03	420K0225.D	Water	11/02/20 16:39
ZZZZZ	20J0265-04	420K0226.D	Water	11/02/20 16:59
ZZZZZ	20J0265-05	420K0227.D	Water	11/02/20 17:19
ZZZZZ	20J0265-06	420K0228.D	Water	11/02/20 17:40
ZZZZZ	20J0265-07	420K0229.D	Water	11/02/20 18:00
ZZZZZ	20J0265-08	420K0230.D	Water	11/02/20 18:21
ZZZZZ	20J0265-09	420K0231.D	Water	11/02/20 18:41
ZZZZZ	20J0265-10	420K0232.D	Water	11/02/20 19:01
ZZZZZ	20J0265-11	420K0233.D	Water	11/02/20 19:22
DIESEL CCV	SIK0016-CCV4	420K0234.D	NA	11/02/20 19:42



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0016

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MOIL CCV	SIK0016-CCV5	420K0235.D	NA	11/02/20 20:02
A/S LANDAU BUNKER C	SIK0016-CCV6	420K0236.D	NA	11/02/20 20:23



ANALYSIS SEQUENCE

SIK0016

Instrument: FID4
Calibration ID: DA00022

Printed: 11/3/2020 9:50:19AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SIK0016-IBL1	QC		1		I006239			
SIK0016-IBL2	QC		2		I006241			
SIK0016-ICV1	QC		3		I008275			
SIK0016-ICV2	QC		4		I008935			
SIK0016-CAL1	QC		5		I010265			
SIK0016-CAL2	QC		6		I010264			
SIK0016-CAL3	QC		7		I010263			
SIK0016-CAL4	QC		8		I010262			
SIK0016-CAL5	QC		9		I010261			
SIK0016-CAL6	QC		10		I010260			
SIK0016-ICV3	QC		11		I010263			
20J0250-02	PH NW (Extractables) low lev	A 01	12				Seattle Public Utilities	A/S Clean up version
20J0265-01	PH NW (Extractables) low lev	A 01	13				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
SIK0016-CCV1	QC		14		I008275			
SIK0016-CCV2	QC		15		I008935			
SIK0016-CCV3	QC		16		I010263			
BIJ0617-BLK1	QC		17					
BIJ0617-BS1	QC		18					
BIJ0617-BSD1	QC		19					
BIJ0617-MS1	QC		20					
BIJ0617-MSD1	QC		21					

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____



ANALYSIS SEQUENCE

SIK0016

Instrument: FID4
Calibration ID: DA00022

Printed: 11/3/2020 9:50:19AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
20J0265-02	PH NW (Extractables) low lev	A 01	22				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-03	PH NW (Extractables) low lev	A 01	23				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-04	PH NW (Extractables) low lev	A 01	24				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-05	PH NW (Extractables) low lev	A 01	25				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-06	PH NW (Extractables) low lev	A 01	26				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-07	PH NW (Extractables) low lev	A 01	27				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-08	PH NW (Extractables) low lev	A 01	28				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-09	PH NW (Extractables) low lev	A 01	29				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-10	PH NW (Extractables) low lev	A 01	30				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
20J0265-11	PH NW (Extractables) low lev	A 01	31				Landau Associates, Inc. - Spokane	Curving for Bunker C, Acid/Si clean, C
SIK0016-CCV4	QC		32		I008275			
SIK0016-CCV5	QC		33		I008935			
SIK0016-CCV6	QC		34		I010263			

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - fid4a.i\20201102.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	02-NOV-2020	08:29	420K0201.D	1	RINSE	
2	02-NOV-2020	08:49	420K0202.D	1	RINSE	
3	02-NOV-2020	09:10	420K0203.D	1	SEQ-IBL1	
4	02-NOV-2020	09:30	420K0204.D	1	SEQ-IBL2	
5	02-NOV-2020	09:50	420K0205.D	1	SEQ-ICV1	
6	02-NOV-2020	10:10	420K0206.D	1	SEQ-ICV2	
7	02-NOV-2020	10:31	420K0207.D	1	SEQ-CAL1	
8	02-NOV-2020	10:51	420K0208.D	1	SEQ-CAL2	
9	02-NOV-2020	11:11	420K0209.D	1	SEQ-CAL3	
10	02-NOV-2020	11:32	420K0210.D	1	SEQ-CAL4	
11	02-NOV-2020	11:52	420K0211.D	1	SEQ-CAL5	
12	02-NOV-2020	12:13	420K0212.D	1	SEQ-CAL6	
13	02-NOV-2020	12:33	420K0213.D	1	SEQ-ICV3	
14	02-NOV-2020	12:53	420K0214.D	1	20J0250-02	
15	02-NOV-2020	13:14	420K0215.D	1	20J0265-01	
16	02-NOV-2020	13:34	420K0216.D	1	SEQ-CCV1	
17	02-NOV-2020	13:55	420K0217.D	1	SEQ-CCV2	
18	02-NOV-2020	14:15	420K0218.D	1	SEQ-CCV3	
19	02-NOV-2020	14:36	420K0219.D	1	BIJ0617-BLK1	
20	02-NOV-2020	14:56	420K0220.D	1	BIJ0617-BS1	
21	02-NOV-2020	15:17	420K0221.D	1	BIJ0617-BSD1	
22	02-NOV-2020	15:37	420K0222.D	1	BIJ0617-MS1	
23	02-NOV-2020	15:58	420K0223.D	1	BIJ0617-MSD1	
24	02-NOV-2020	16:18	420K0224.D	1	20J0265-02	
25	02-NOV-2020	16:39	420K0225.D	1	20J0265-03	
26	02-NOV-2020	16:59	420K0226.D	1	20J0265-04	
27	02-NOV-2020	17:19	420K0227.D	1	20J0265-05	
28	02-NOV-2020	17:40	420K0228.D	1	20J0265-06	
29	02-NOV-2020	18:00	420K0229.D	1	20J0265-07	
30	02-NOV-2020	18:21	420K0230.D	1	20J0265-08	
31	02-NOV-2020	18:41	420K0231.D	1	20J0265-09	
32	02-NOV-2020	19:01	420K0232.D	1	20J0265-10	
33	02-NOV-2020	19:22	420K0233.D	1	20J0265-11	
34	02-NOV-2020	19:42	420K0234.D	1	SEQ-CCV4	
35	02-NOV-2020	20:02	420K0235.D	1	SEQ-CCV5	
36	02-NOV-2020	20:23	420K0236.D	1	SEQ-CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201102.b

ARI Job No.: RINS Method: FID4TPH.m Instrument: fid4a.i Date: 02-NOV-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0829	420K0201.D	RINSE		1	NO MANUAL INTEGRATION
0849	420K0202.D	RINSE		1	NO MANUAL INTEGRATION
0910	420K0203.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
0930	420K0204.D	SEQ-IBL2		1	NO MANUAL INTEGRATION
0950	420K0205.D	SEQ-ICV1		1	o-terph,
1010	420K0206.D	SEQ-ICV2		1	Triacon Surr,
1031	420K0207.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
1051	420K0208.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
1111	420K0209.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
1132	420K0210.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
1152	420K0211.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
1213	420K0212.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
1233	420K0213.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
1253	420K0214.D	20J0250-02		1	o-terph, Triacon Surr,
1314	420K0215.D	20J0265-01		1	NO MANUAL INTEGRATION
1334	420K0216.D	SEQ-CCV1		1	o-terph,
1355	420K0217.D	SEQ-CCV2		1	Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201102.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1415	420K0218.D	SEQ-CCV3	1		NO MANUAL INTEGRATION
1436	420K0219.D	BIJ0617-BLK1	1		NO MANUAL INTEGRATION
1456	420K0220.D	BIJ0617-BS1	1		o-terph,
1517	420K0221.D	BIJ0617-BSD1	1		o-terph,
1537	420K0222.D	BIJ0617-MS1	1		o-terph,
1558	420K0223.D	BIJ0617-MSD1	1		o-terph,
1618	420K0224.D	20J0265-02	1		NO MANUAL INTEGRATION
1639	420K0225.D	20J0265-03	1		NO MANUAL INTEGRATION
1659	420K0226.D	20J0265-04	1		NO MANUAL INTEGRATION
1719	420K0227.D	20J0265-05	1		NO MANUAL INTEGRATION
1740	420K0228.D	20J0265-06	1		NO MANUAL INTEGRATION
1800	420K0229.D	20J0265-07	1		NO MANUAL INTEGRATION
1821	420K0230.D	20J0265-08	1		NO MANUAL INTEGRATION
1841	420K0231.D	20J0265-09	1		NO MANUAL INTEGRATION
1901	420K0232.D	20J0265-10	1		NO MANUAL INTEGRATION
1922	420K0233.D	20J0265-11	1		NO MANUAL INTEGRATION
1942	420K0234.D	SEQ-CCV4	1		o-terph,
2002	420K0235.D	SEQ-CCV5	1		Triacon Surr,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid4a.i\20201102.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2023	420K0236.D	SEQ-CCV6	1		NO MANUAL INTEGRATION

Security Status Report

Date: 03-Nov-2020 09:49

420K0201.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0202.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0203.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0204.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0205.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0206.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0207.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0208.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0209.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0210.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0211.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0212.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0213.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0214.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0215.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0216.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0217.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0218.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0219.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0220.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0221.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0222.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0223.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0224.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0225.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0226.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0227.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0228.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0229.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0230.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0231.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0232.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0233.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0234.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0235.D	Data Locked	christopher,	03-Nov-2020	09:38
420K0236.D	Data Locked	christopher,	03-Nov-2020	09:38



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0149

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Retention Time Standard	SIK0149-IBL1	420K1003.D	NA	11/10/20 08:25
Instrument Blank	SIK0149-IBL2	420K1004.D	NA	11/10/20 08:45
DIESEL ICV	SIK0149-ICV1	420K1005.D	NA	11/10/20 09:05
MOIL ICV	SIK0149-ICV2	420K1006.D	NA	11/10/20 09:26
ZZZZZ	20K0116-01	420K1007.D	Solid	11/10/20 09:46
ZZZZZ	BIK0222-BLK1	420K1008.D	Solid	11/10/20 10:06
ZZZZZ	BIK0222-BS1	420K1009.D	Solid	11/10/20 10:27
Blank	BIJ0839-BLK1	420K1010.D	Water	11/10/20 10:47
LCS	BIJ0839-BS1	420K1011.D	Water	11/10/20 11:07
SC-FB-2010261145	20J0385-01	420K1012.D	Water	11/10/20 11:28
SC-FB-2010261145	BIJ0839-MS1	420K1013.D	Water	11/10/20 11:48
SC-FB-2010261145	BIJ0839-MSD1	420K1014.D	Water	11/10/20 12:09
SC-RB-2010261130	20J0385-02	420K1015.D	Water	11/10/20 12:29
ZZZZZ	BIK0217-BLK1	420K1016.D	Solid	11/10/20 12:50
ZZZZZ	BIK0217-BS1	420K1017.D	Solid	11/10/20 13:10
ZZZZZ	BIK0217-BSD1	420K1018.D	Solid	11/10/20 13:31
ZZZZZ	20J0387-02	420K1019.D	Solid	11/10/20 13:51
ZZZZZ	20J0387-04	420K1020.D	Solid	11/10/20 14:12
DIESEL CCV	SIK0149-CCV1	420K1023.D	NA	11/10/20 15:13
MOIL CCV	SIK0149-CCV2	420K1024.D	NA	11/10/20 15:33
ZZZZZ	20J0387-08	420K1025.D	Solid	11/10/20 15:54
ZZZZZ	20J0387-10	420K1026.D	Solid	11/10/20 16:14
ZZZZZ	20J0387-14	420K1027.D	Solid	11/10/20 16:35
ZZZZZ	20J0387-17	420K1028.D	Solid	11/10/20 16:55
ZZZZZ	20J0387-20	420K1029.D	Solid	11/10/20 17:15
ZZZZZ	20J0387-23	420K1030.D	Solid	11/10/20 17:35
ZZZZZ	20J0387-26	420K1031.D	Solid	11/10/20 17:56
ZZZZZ	20J0387-28	420K1032.D	Solid	11/10/20 18:16
ZZZZZ	20J0387-32	420K1033.D	Solid	11/10/20 18:36
ZZZZZ	20J0387-34	420K1034.D	Solid	11/10/20 18:57



ANALYSIS BATCH (SEQUENCE) SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0149

Instrument: FID4

Calibration: DA00022

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
DIESEL CCV	SIK0149-CCV3	420K1035.D	NA	11/10/20 19:17
MOIL CCV	SIK0149-CCV4	420K1036.D	NA	11/10/20 19:37



SURROGATE RECOVERY AND RT SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0042

Instrument: FID4

Calibration: DA00022

Calibration Date: 10/25/2019

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0042-ICV1 (Water)			Lab File ID: 420J0205.D		Analyzed: 10/02/20 10:02			
o-Terphenyl	90.000	89.6	85 - 115	6.28	6.66	-0.3800	N/A	
SIJ0042-ICV3 (Water)			Lab File ID: 420J0213.D		Analyzed: 10/02/20 12:46			
o-Terphenyl	90.000	94.7	85 - 115	6.28	6.66	-0.3800	N/A	
SIJ0042-CCV1 (Water)			Lab File ID: 420J0227.D		Analyzed: 10/02/20 17:33			
o-Terphenyl	90.000	88.3	85 - 115	6.28	6.66	-0.3800	N/A	



Analytical Resources, Incorporated
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY

NWTPH-Dx

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG/WO:	20J0385
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Sequence:	<u>SIK0016</u>	Instrument:	<u>FID4</u>
Calibration:	<u>DA00022</u>	Calibration Date:	<u>10/25/2019</u>

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIK0016-ICV1 (Water)		Lab File ID: 420K0205.D			Analyzed: 11/02/20 09:50			
o-Terphenyl	90.000	95.0	85 - 115	6.25	6.66	-0.4100	N/A	
SIK0016-ICV3 (Water)		Lab File ID: 420K0213.D			Analyzed: 11/02/20 12:33			
o-Terphenyl	22.500	101	85 - 115	6.23	6.66	-0.4300	N/A	
SIK0016-CCV1 (Water)		Lab File ID: 420K0216.D			Analyzed: 11/02/20 13:34			
o-Terphenyl	90.000	94.2	85 - 115	6.25	6.66	-0.4100	N/A	



SURROGATE RECOVERY AND RT SUMMARY

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0149

Instrument: FID4

Calibration: DA00022

Calibration Date: 11/02/2020

Surrogate Compound	Spike Level mg/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIK0149-IBL1 (Water)			Lab File ID: 420K1003.D		Analyzed: 11/10/20 08:25			
o-Terphenyl	100.00	93.4	50 - 150	6.22	6.66	-0.4400	N/A	
SIK0149-IBL2 (Water)			Lab File ID: 420K1004.D		Analyzed: 11/10/20 08:45			
o-Terphenyl	100.00	92.1	50 - 150	6.22	6.66	-0.4400	N/A	
SIK0149-ICV1 (Water)			Lab File ID: 420K1005.D		Analyzed: 11/10/20 09:05			
o-Terphenyl	90.000	94.8	85 - 115	6.22	6.66	-0.4400	N/A	
BIJ0839-BLK1 (Water)			Lab File ID: 420K1010.D		Analyzed: 11/10/20 10:47			
o-Terphenyl	0.22500	83.7	50 - 150	6.22	6.66	-0.4400	N/A	
BIJ0839-BS1 (Water)			Lab File ID: 420K1011.D		Analyzed: 11/10/20 11:07			
o-Terphenyl	0.22500	87.7	50 - 150	6.22	6.66	-0.4400	N/A	
20J0385-01 (Water)			Lab File ID: 420K1012.D		Analyzed: 11/10/20 11:28			
o-Terphenyl	0.22500	85.9	50 - 150	6.22	6.66	-0.4400	N/A	
BIJ0839-MS1 (Water)			Lab File ID: 420K1013.D		Analyzed: 11/10/20 11:48			
o-Terphenyl	0.22500	75.8	50 - 150	6.22	6.66	-0.4400	N/A	
BIJ0839-MSD1 (Water)			Lab File ID: 420K1014.D		Analyzed: 11/10/20 12:09			
o-Terphenyl	0.22500	79.0	50 - 150	6.22	6.66	-0.4400	N/A	
20J0385-02 (Water)			Lab File ID: 420K1015.D		Analyzed: 11/10/20 12:29			
o-Terphenyl	0.22500	85.3	50 - 150	6.22	6.66	-0.4400	N/A	
SIK0149-CCV1 (Water)			Lab File ID: 420K1023.D		Analyzed: 11/10/20 15:13			
o-Terphenyl	90.000	97.6	85 - 115	6.22	6.66	-0.4400	N/A	
SIK0149-CCV3 (Water)			Lab File ID: 420K1035.D		Analyzed: 11/10/20 19:17			
o-Terphenyl	90.000	99.6	85 - 115	6.22	6.66	-0.4400	N/A	



HOLDING TIME SUMMARY

Analysis: **NWTPH-Dx**

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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
SC-FB-2010261145 20J0385-01	10/26/20 11:45	10/28/20 11:35	11/02/20 17:11	7	7	11/10/20 11:28	8	40	
SC-RB-2010261130 20J0385-02	10/26/20 11:30	10/28/20 11:35	11/02/20 17:11	7	7	11/10/20 12:29	8	40	
Matrix Spike BIJ0839-MS1	10/26/20 11:45	10/28/20 11:35	11/02/20 17:11	7	7	11/10/20 11:48	8	40	
Matrix Spike Dup BIJ0839-MSD1	10/26/20 11:45	10/28/20 11:35	11/02/20 17:11	7	7	11/10/20 12:09	8	40	

* Indicates hold time exceedance.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Solid

Instrument: FID4

Analyte	MDL	RL	Units
Diesel Range Organics (C12-C24)	2.34	5.00	mg/kg
Motor Oil Range Organics (C24-C38)	2.99	10.0	mg/kg



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

NWTPH-Dx

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Instrument: FID4

Analyte	MDL	RL	Units
Diesel Range Organics (C12-C24)	0.033	0.100	mg/L
Motor Oil Range Organics (C24-C38)	0.056	0.200	mg/L



Form I
ORGANIC ANALYSIS DATA SHEET
WA EPH
WA EPH-Aliphatics

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-01 A SDG: 20J0385
Sampled: 10/26/20 11:45 Prepared: 10/30/20 20:34 File ID: 820K2006.D
% Solids: Preparation: EPA 3510C SepF Analyzed: 11/20/20 09:36
Batch: BIJ0838 Sequence: SIK0322 Initial/Final: 1000 mL / 1 mL
Instrument: FID8 Column: ZB5 Calibration: DJ00015
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
ALI-C10-C12	C10-C12 Aliphatics	1	20	U		20

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
1-Chloro-octadecane	150.00	74.4	49.6	36 - 120	

Data File: \\target\share\chem2\fid8.1\20201120a11ph.b\820K2006.D

Date : 20-NOV-2020 09:36

Client ID:

Sample Info: 20J0385-01

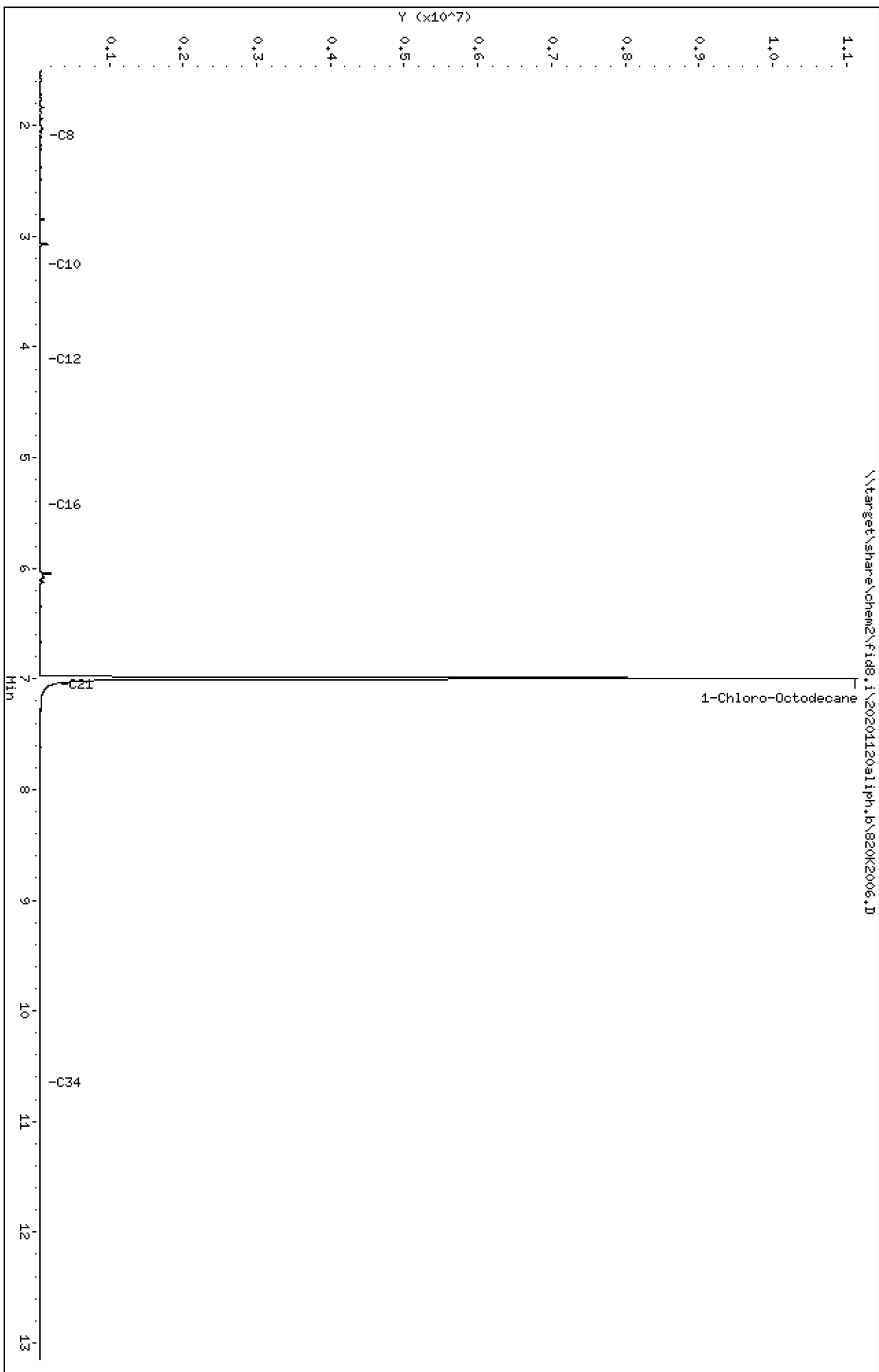
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2006.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: 20J0385-01
Client ID:
Injection: 20-NOV-2020 09:36
Matrix: NONE
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	423586	2.2	(2.018 - 3.359)
C10-C12 Aliph.	76736	0.4	(3.359 - 4.199)
C12-C16 Aliph.	60293	0.3	(4.199 - 5.538)
C16-C21 Aliph.	797788	4.1	(5.538 - 7.147)
C21-C34 Aliph.	204742	1.1	(7.147 - 10.769)
Surrogate Rec:	49.6%	74.4 ug/mL	



Form I
ORGANIC ANALYSIS DATA SHEET
WA EPH
WA EPH-Aliphatics

Laboratory: Analytical Resources, Inc.
Client: Anchor OEA, LLC
Project: GascoSiltronic
Matrix: Water Laboratory ID: 20J0385-02 A SDG: 20J0385
Sampled: 10/26/20 11:30 Prepared: 10/30/20 20:34 File ID: 820K2007.D
% Solids: Preparation: EPA 3510C SepF Analyzed: 11/20/20 10:01
Batch: BIJ0838 Sequence: SIK0322 Initial/Final: 1000 mL / 1 mL
Instrument: FID8 Column: ZB5 Calibration: DJ00015
Cleanups: Silica Gel

CAS NO.	COMPOUND	DILUTION	(ug/L)	Q	DL	RL
ALI-C10-C12	C10-C12 Aliphatics	1	20	U		20

SURROGATES	ADDED:(ug/L)	(ug/L)	% REC	QC LIMITS	Q
1-Chloro-octadecane	150.00	74.0	49.3	36 - 120	

Data File: \\target\share\chem2\fid8,1\20201120a11ph,b\820K2007.D

Date : 20-NOV-2020 10:01

Client ID:

Sample Info: 20J0385-02

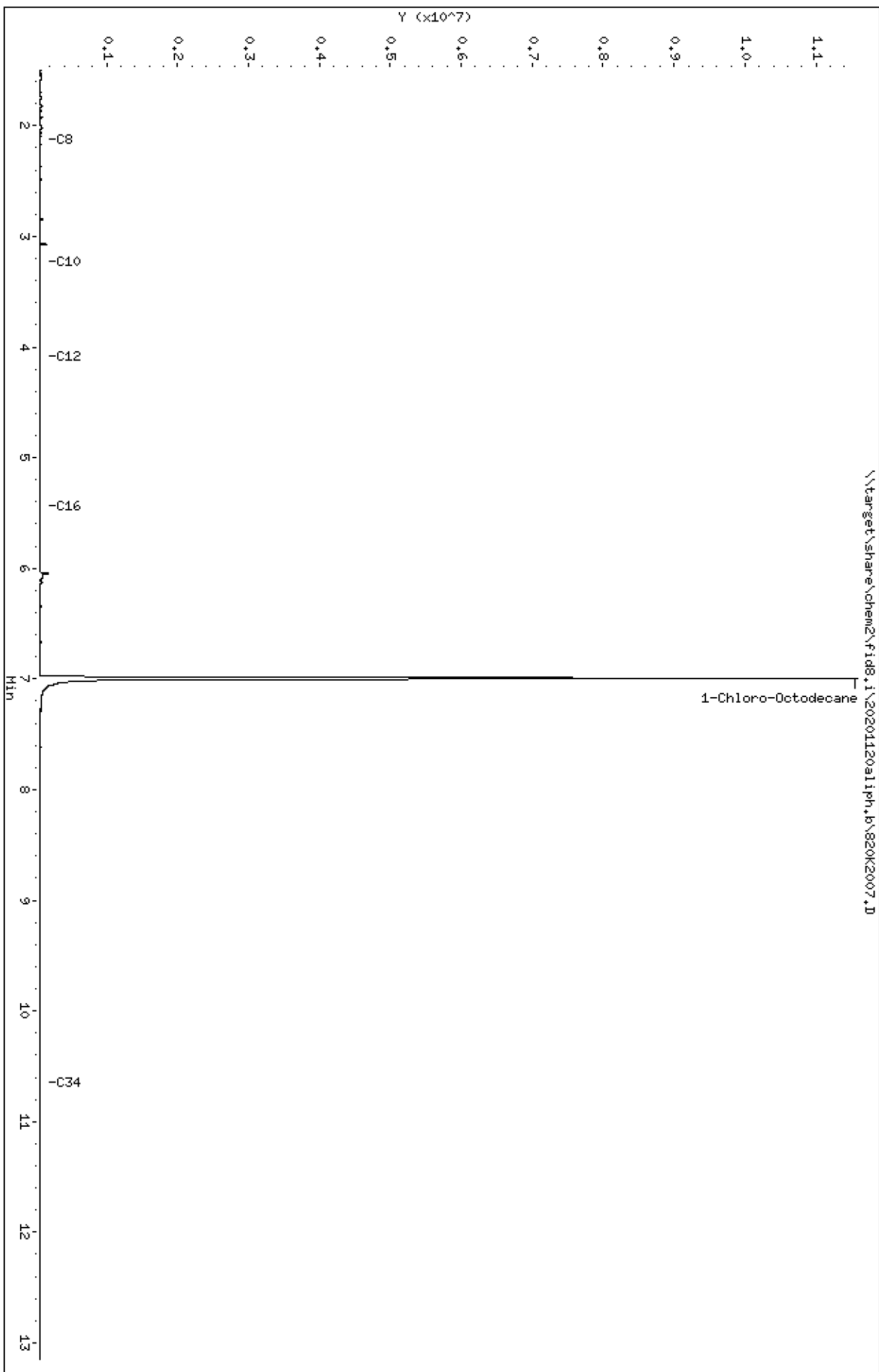
Column phase: RTX-1

Instrument: fid8,1

Operator: JGR

Column diameter: 0.25

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Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2007.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: 20J0385-02
Client ID:
Injection: 20-NOV-2020 10:01
Matrix: NONE
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	388064	2.0	(2.018 - 3.359)
C10-C12 Aliph.	77843	0.4	(3.359 - 4.199)
C12-C16 Aliph.	51131	0.3	(4.199 - 5.538)
C16-C21 Aliph.	376699	1.9	(5.538 - 7.147)
C21-C34 Aliph.	194464	1.1	(7.147 - 10.769)
Surrogate Rec:	49.3%	74.0 ug/mL	



PREPARATION BATCH SUMMARY

WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Batch: BIJ0838

Batch Matrix: Water

Preparation: EPA 3510C SepF

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SC-FB-2010261145	20J0385-01	820K2006.D	10/30/20 20:34	
SC-RB-2010261130	20J0385-02	820K2007.D	10/30/20 20:34	
Blank	BIJ0838-BLK1	820K2004.D	10/30/20 20:34	
LCS	BIJ0838-BS1	820K2005.D	10/30/20 20:34	



Batch: BIJ0838

Prepared using: EPA 3510C SepF

WA EPH Aliphatic C10-C12 mod in Water

Matrix: Water

Date Prepared: 11/30/20

Balance ID: N/A

Set Up By: RSM 10/29/2020

The following standards may be missing from this batch!

Designator	Description
QLS 22	QLS Spike

Analysis: WA EPH Aliphatic C10-C12 mod

Lab Number & Container	Initial (mL) Actual	Fractionate Aliphatic/ Aromatic (1:1)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
20J0385-01 A + B	(1,000.00) 1.000 SH 11/30/20	(1:1) 1mL	1	1.0	
20J0385-02 A + B	(1,000.00) ↓	(1:1) 1mL	1	1.0	

Batch QC

Lab Number	Initial (mL) Actual	Fractionate Aliphatic/ Aromatic (1:1)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BIJ0838-BLK 1	(1,000.00) 1.000 SH 11/30/20	(1:1) 1mL	1	1.0	
BIJ0838-BS 1	(1,000.00) ↓	(1:1) 1mL	1	1.0	

SH 11/30/20

Client ID verified By _____ Date _____

BH

Preparation Reviewed By _____

11/18/20

Date _____

103020

2034

Extraction Date and Time _____



Batch: BIJ0838

Prepared using: EPA 3510C SepF
WA EPH Aliphatic C10-C12 mod in Water

Prep Steps	Reagents Used	Surrogates & Spike Standards Used															
KD 80 - 85°C to 1 mL Exchange with 50mL Pentane then 50mL Hexane 100°C to 1 mL 1 2 3 4 5 6 VLB 11/14/20 Analyst/Date	Station/Reagent Separatory Funnel Analyst: SH Date: 10/30/20	<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>Surrogate</td> <td>M 1007754 Exp: 12/05/2021</td> <td>100µL</td> <td>SH</td> <td>WT</td> </tr> <tr> <td>Spike</td> <td>5 1009355 Exp: 10/08/2021</td> <td>200µL</td> <td>SH</td> <td>WT</td> </tr> </tbody> </table>	Type	Vial ID / Standard ID	Vol uL	Analyst	Witness	Surrogate	M 1007754 Exp: 12/05/2021	100µL	SH	WT	Spike	5 1009355 Exp: 10/08/2021	200µL	SH	WT
	Type		Vial ID / Standard ID	Vol uL	Analyst	Witness											
	Surrogate		M 1007754 Exp: 12/05/2021	100µL	SH	WT											
	Spike		5 1009355 Exp: 10/08/2021	200µL	SH	WT											
	1:1 HCL/DI H2O ST 10/30/20 N/A																
1:1 Sulfuric Acid/DI H2O I009392																	
Methylene Chloride J009772																	
Anhydrous Sodium Sulfate I008491																	
TurboVap Pre Fractionation 1 2 3 4 BH 11/18/20 Analyst/Date	KD Analyst: VLB Date: 11/14/20	(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).															
	Methylene Chloride I010361																
	Pentane I006014																
	Hexane I009056																
TurboVap Post Fractionation 1 2 3 4 6 BH 11/18/20 Analyst/Date	Vialing Analyst: BH Date: 11/18/20																
	Methylene Chloride I010361																
	Silica Gel Dart (EPH) I006350																
Final Vialing BH 11/18/20 Analyst/Date	Hexane I009056																



Batch: BIJ0838

Prepared using: EPA 3510C SepF
WA EPH Aliphatic C10-C12 mod in Water

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. If samples are listed as preserved with HCL. Check pH is 2. Acidify HCL preserved samples with 1:1 HCL if ph >2 and note on Analyst Notes.2. Add surr/spk.3. Acidify blanks and unpreserved samples with 1:1 Sulfuric Acid.4. Extract 3X with 30mL DCM.5. Add 5 mL of Hexane to KD with sample. KD (no drying column) to 1mL at 80°C.6. Exchange with 50mL Pentane.7. KD to 1mL at 100°C.8. Exchange a second time with 50mL Hexane and concentrate to 1mL again.9. Let Cool: After cooling: volume should be 5mL. Transfer to turbo-tube with Hexane.10. Turbovap to 3 mL then exchange with 10 mL of Hexane then turbovap to 1 mL.11. Transfer to SPE culture tube to 1 mL using Hexane.12. Exchange in culture tube with 1mL of Hexane and turbovap to 1mL for SPE.13. Fractionate Aliphatic/Aromatic by SPE.14. Turbovap Each fraction to 1 mL.15. Vial Aliphatic fraction in Hexane and vial Aromatic fraction in DCM. <p>Archive: Y <input checked="" type="checkbox"/></p>	

Check if all other analysis have been completed; if so, then archive.



Extraction Parameter: EPH Extraction Batch B150838

Total Solids Batch: N/A Work Order(s): 2050385

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input 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 checked="" type="checkbox"/> No Anomalies	SH 1/3/20
<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 checked="" type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions).	
385- #1, #2 combined bottle A and B for 1000 mL extracted 3x w/ 60 mL DCM	SH 1/3/20 SH 1/3/20
<input type="checkbox"/> Share Samples Y / N	
<input type="checkbox"/> Multiple Jars Y / N	
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	



CLEANUP BATCH SUMMARY

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Cleanup Batch: CIK0137

Cleanup Type: Silica Gel

Cleanup Method: EPA 3630C Silica Gel Cleanup

Analysis: WA EPH

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
SC-FB-2010261145	20J0385-01	820K2006.D	11/18/2020	
SC-RB-2010261130	20J0385-02	820K2007.D	11/18/2020	
Blank	BIJ0838-BLK1	820K2004.D	11/18/2020	
LCS	BIJ0838-BS1	820K2005.D	11/18/2020	



CLEANUP BENCH SHEET

CIK0137

Matrix: Water

Cleanup using: Organics - EPA 3630C Silica Gel Cleanup

Printed: 11/18/2020 7:04:01AM

Lab Number	Sample Container	Sample Name	Extract Container	Initial (mL)	Final (mL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
20J0385-01	A	SC-FB-2010261145	A 01	1	1	WA EPH Aliphatic C10-C12 mod	11/18/2020	BH	
20J0385-02	A	SC-RB-2010261130	A 01	1	1	WA EPH Aliphatic C10-C12 mod	11/18/2020	BH	
BIJ0838-BLK1	-	Blank	-	1	1	-	11/18/2020	BH	
BIJ0838-BS1	-	LCS	-	1	1	-	11/18/2020	BH	



Form I
METHOD BLANK DATA SHEET
WA EPH

Blank

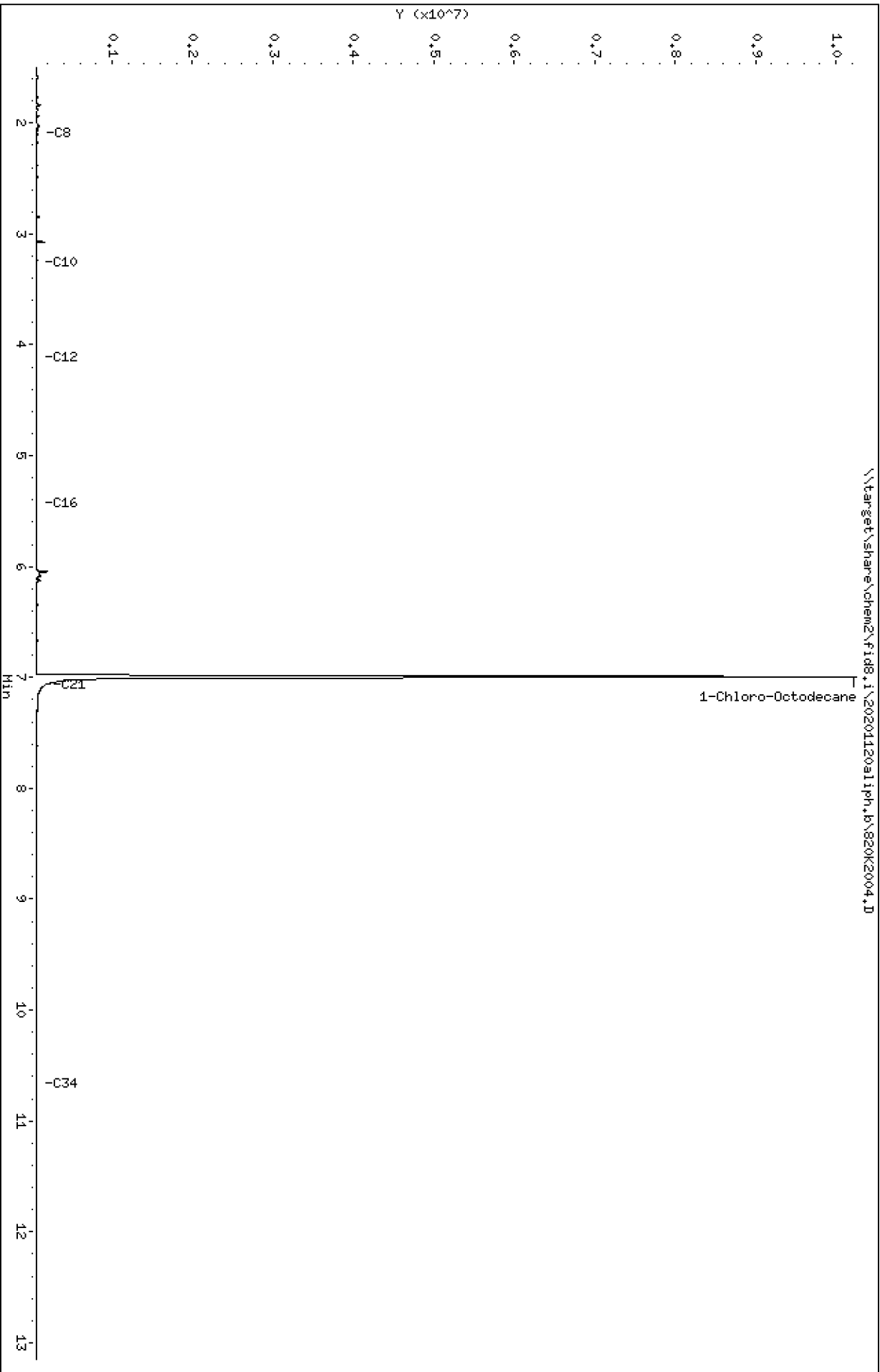
Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Laboratory ID:	<u>BIJ0838-BLK1</u>
Sampled:	<u>N/A</u>	Prepared:	<u>10/30/20 20:34</u>
Solids:		Preparation:	<u>EPA 3510C SepF</u>
Batch:	<u>BIJ0838</u>	Sequence:	<u>SIK0322</u>
Instrument:	<u>FID8</u>	Column:	<u>ZB5</u>
		Cleanups:	<u>Silica Gel</u>

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q	DL	RL
ALI-C10-C12	C10-C12 Aliphatics	1	20	U		20
SURROGATES		ADDED (ug/L)	CONC. (ug/L)	% REC	QC LIMITS	Q
1-Chloro-octadecane		150.00	70.1	46.7	36 - 120	

Data File: \\target\share\chem2\fid8,1\20201120a11ph,b\820K2004.D
Date : 20-NOV-2020 08:47
Client ID:
Sample Info: BJ0838-BLK1

Column phase: RTX-1

Instrument: fid8,1
Operator: JGR
Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2004.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: BIJ0838-BLK1
Client ID:
Injection: 20-NOV-2020 08:47
Matrix: NONE
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	290067	1.5	(2.018 - 3.359)
C10-C12 Aliph.	49179	0.2	(3.359 - 4.199)
C12-C16 Aliph.	57434	0.3	(4.199 - 5.538)
C16-C21 Aliph.	611291	3.1	(5.538 - 7.147)
C21-C34 Aliph.	211987	1.2	(7.147 - 10.769)
Surrogate Rec:	46.7%	70.1 ug/mL	



LCS / LCS DUPLICATE RECOVERY WA EPH

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Matrix:	<u>Water</u>	Analyzed:	<u>11/20/20 09:12</u>
Batch:	<u>BIJ0838</u>	Laboratory ID:	<u>BIJ0838-BS1</u>
Preparation:	<u>EPA 3510C SepF</u>	Sequence Name:	<u>LCS</u>
Initial/Final:	<u>1000 mL / 1 mL</u>		

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	Q	LCS % REC. #	QC LIMITS REC.
C10-C12 Aliphatics	150	22.5		15.0	15 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid8.1\20201120a11ph.b\820K2005.D

Date : 20-NOV-2020 09:12

Client ID:

Sample Info: BJ0838-BS1

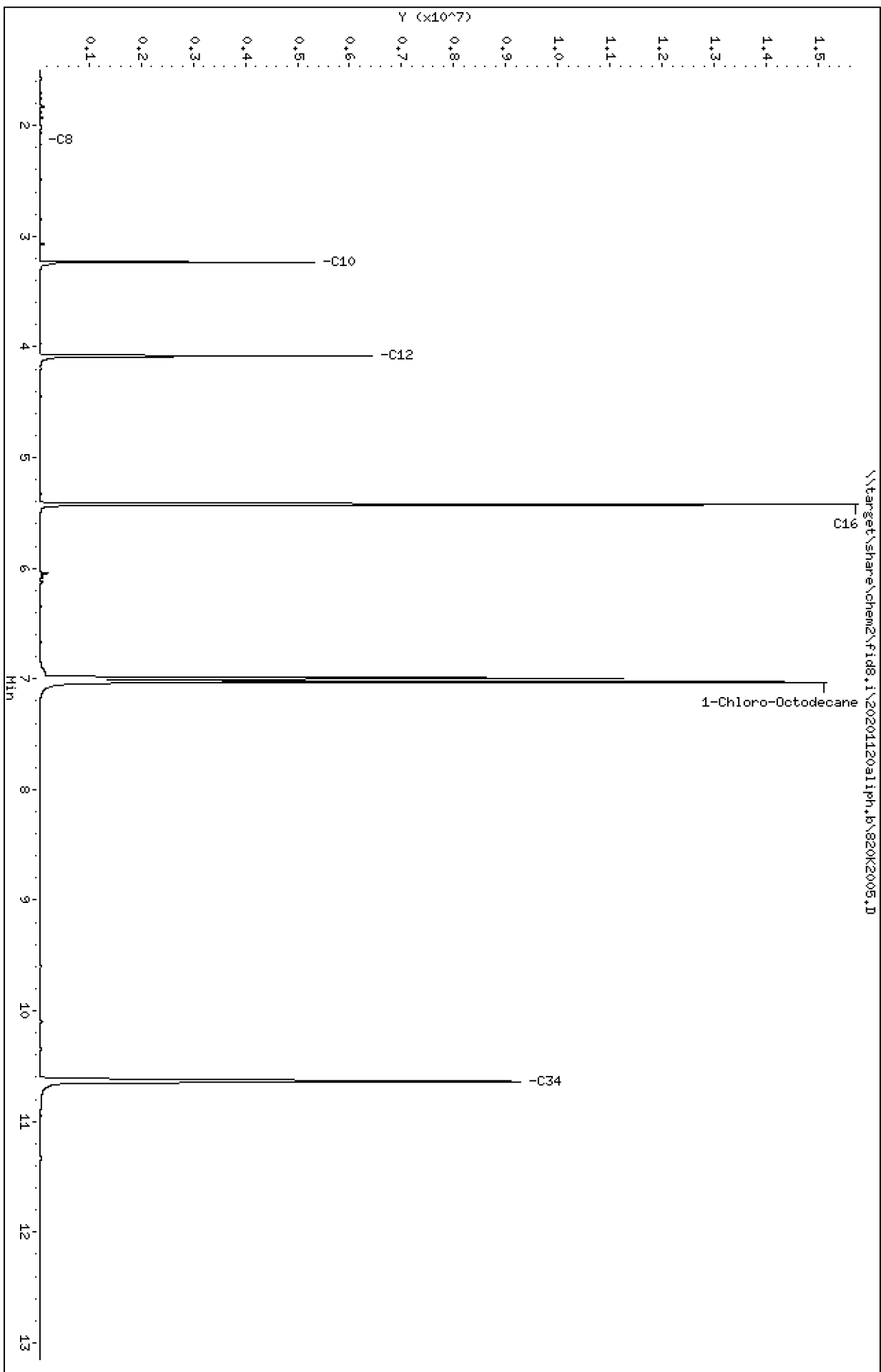
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

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Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2005.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: BIJ0838-BS1
Client ID:
Injection: 20-NOV-2020 09:12
Matrix: NONE
Dilution Factor: 1

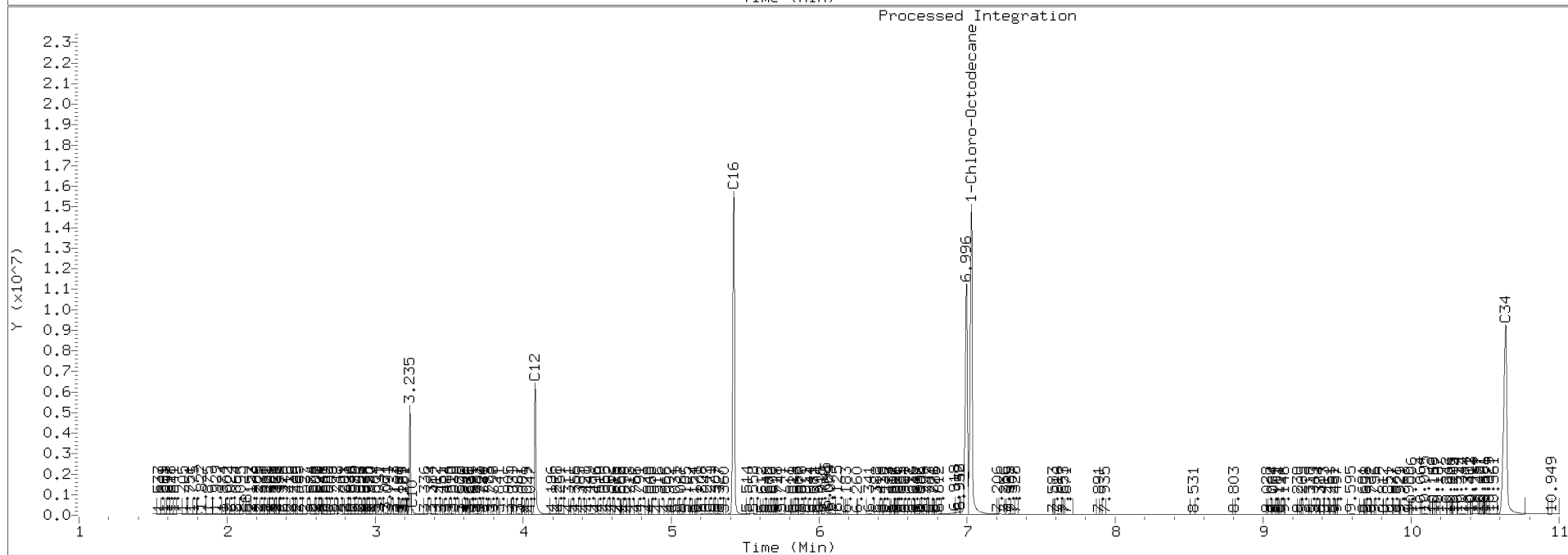
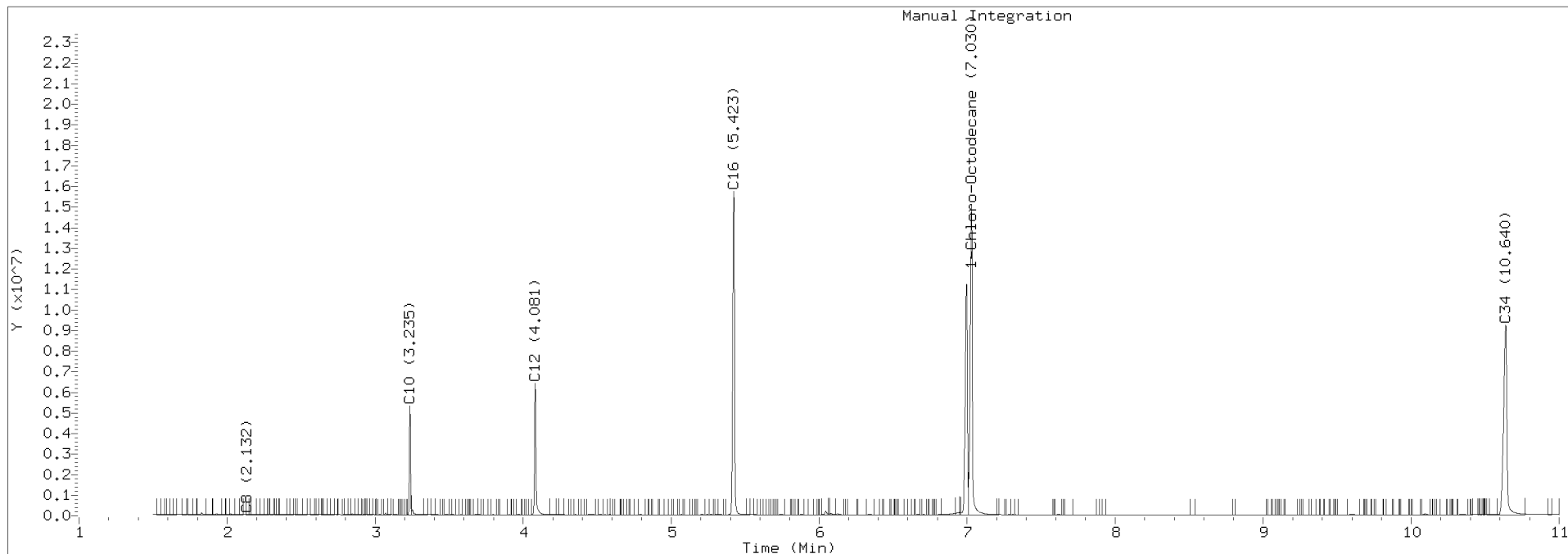
EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	3477100	18.1	(2.018 - 3.359)
C10-C12 Aliph.	4610521	22.5	(3.359 - 4.199)
C12-C16 Aliph.	13844199	68.4	(4.199 - 5.538)
C16-C21 Aliph.	12476205	64.0	(5.538 - 7.147)
C21-C34 Aliph.	14941797	83.5	(7.147 - 10.769)
Surrogate Rec:	62.0%	93.0 ug/mL	

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201120aliph.b/820K2005.D Injection: 20-NOV-2020 09:12

Lab ID:BIJ0838-BS1





INITIAL CALIBRATION DATA WA EPH

Laboratory: Analytical Resources, Inc.	SDG: 20J0385
Client: Anchor QEA, LLC	Project: GascoSiltronic
Calibration: DJ00015	Instrument: FID8
Calibration Date: 10/01/2020	Column (1): ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	20	RF	50	RF	100	RF	125	RF	150	RF	200	RF
C10-C12 Aliphatics	20	195247.2	50	190901.5	100	206966.6	125	204131.5	150	217695.5	200	216877
1-Chloro-octadecane	20	132313.3	50	153398.8	100	174966.8	125	173349	150	185446.5	200	188647.6



INITIAL CALIBRATION DATA WA EPH

Laboratory:	Analytical Resources, Inc.	SDG:	20J0385
Client:	Anchor QEA, LLC	Project:	GascoSiltronic
Calibration:	DJ00015	Instrument:	FID8
Calibration Date:	10/01/2020	Column (1):	ZB5

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
C10-C12 Aliphatics	205303.2	5.3			RSD (20)	
1-Chloro-octadecane	168020.3	12.7			RSD (20)	



ANALYSIS SEQUENCE

SIJ0055

Instrument: FID8
Calibration ID: DJ00015

Element Column ID: d002555

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0055-CAL1	AROM 20PPM	QC		1	I009169		
SIJ0055-CAL2	AROM 50PPM	QC		2	I009168		
SIJ0055-CAL3	AROM 100PPM	QC		3	I009167		
SIJ0055-CAL4	AROM 125PPM	QC		4	I009166		
SIJ0055-CAL5	AROM 150PPM	QC		5	I009165		
SIJ0055-CAL6	AROM 200PPM	QC		6	I009164		
SIJ0055-SCV1	AROM SCV	QC		7	I005685		
SIJ0055-CAL7	ALIPH 20PPM	QC		8	I009163		
SIJ0055-CAL8	ALIPH 50PPM	QC		9	I009160		
SIJ0055-CAL9	ALIPH 100PPM	QC		10	I009157		
SIJ0055-CALA	ALIPH 125PPM	QC		11	I009154		
SIJ0055-CALB	ALIPH 150PPM	QC		12	I009151		
SIJ0055-CALC	ALIPH 200PPM	QC		13	I009150		
SIJ0055-SCV2	ALIPH SCV	QC		14	I005686		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	01-OCT-2020	20:50	820J0107.D	1	ALIB	
2	02-OCT-2020	00:13	820J0115.D	1	20ALIPH	
3	02-OCT-2020	00:39	820J0116.D	1	50ALPIH	
4	02-OCT-2020	01:04	820J0117.D	1	100ALIPH	
5	02-OCT-2020	01:29	820J0118.D	1	125ALIPH	
6	02-OCT-2020	01:54	820J0119.D	1	150ALIPH	
7	02-OCT-2020	02:19	820J0120.D	1	200ALIPH	
8	02-OCT-2020	02:45	820J0121.D	1	ALIPHSC2	
9	02-OCT-2020	12:28	820J0144.D	1	ALIPHICV2	
10	02-OCT-2020	12:54	820J0145.D	1	BII0795-BLK1	
11	02-OCT-2020	13:20	820J0146.D	1	BII0795-BS1	
12	02-OCT-2020	13:46	820J0147.D	1	20I0109-02	
13	02-OCT-2020	14:12	820J0148.D	1	20I0109-03	
14	02-OCT-2020	14:38	820J0149.D	1	20I0109-05	
15	02-OCT-2020	15:04	820J0150.D	1	20I0109-07	
16	02-OCT-2020	15:29	820J0151.D	1	20I0109-08	
17	02-OCT-2020	15:55	820J0152.D	1	20I0109-09	
18	02-OCT-2020	16:21	820J0153.D	1	20I0109-10	
19	02-OCT-2020	16:46	820J0154.D	1	BII0795-MS1	
20	02-OCT-2020	17:12	820J0155.D	1	BII0795-MSD1	
21	02-OCT-2020	17:38	820J0156.D	1	ALIPHCCV3	
22	02-OCT-2020	18:03	820J0157.D	1	20I0109-11	
23	02-OCT-2020	18:29	820J0158.D	1	20I0149-01	
24	02-OCT-2020	18:54	820J0159.D	1	20I0149-02	
25	02-OCT-2020	19:20	820J0160.D	1	20I0149-05	
26	02-OCT-2020	19:45	820J0161.D	1	20I0149-07	
27	02-OCT-2020	20:10	820J0162.D	1	20I0149-08	
28	02-OCT-2020	20:36	820J0163.D	1	20I0149-09	
29	02-OCT-2020	21:01	820J0164.D	1	20I0149-10	
30	02-OCT-2020	21:27	820J0165.D	1	ALIPHCCV4	
31	02-OCT-2020	22:17	820J0167.D	1	BII0478-BLK1	
32	02-OCT-2020	22:42	820J0168.D	1	BII0478-BS1	
33	02-OCT-2020	23:08	820J0169.D	1	BII0478-BSD1	
34	02-OCT-2020	23:33	820J0170.D	1	20I0212-03	
35	02-OCT-2020	23:58	820J0171.D	1	BII0481-BLK1	
36	03-OCT-2020	00:23	820J0172.D	1	BII0481-BS1	
37	03-OCT-2020	00:49	820J0173.D	1	BII0481-BSD1	
38	03-OCT-2020	01:14	820J0174.D	1	20I0212-06	
39	03-OCT-2020	01:39	820J0175.D	1	20I0212-24	
40	03-OCT-2020	05:52	820J0185.D	1	ALIPHCCV6	
41	03-OCT-2020	06:42	820J0187.D	1	BII0585-BLK1	
42	03-OCT-2020	07:07	820J0188.D	1	BII0585-BS1	
43	03-OCT-2020	07:32	820J0189.D	1	BII0585-BSD1	
44	03-OCT-2020	07:57	820J0190.D	1	20I0267-08	
45	03-OCT-2020	08:21	820J0191.D	1	20I0267-16	
46	03-OCT-2020	10:51	820J0197.D	1	ALIPHCCV8	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	01-OCT-2020	17:18	820J0101.D	1	RINSE	
2	01-OCT-2020	18:00	820J0102.D	1	RINSE	
3	01-OCT-2020	18:25	820J0103.D	1	RINSE	
4	01-OCT-2020	19:34	820J0104.D	1	RINSE	
5	01-OCT-2020	19:59	820J0105.D	1	RINSE	
6	01-OCT-2020	20:25	820J0106.D	1	ARIB	
7	01-OCT-2020	21:16	820J0108.D	1	20AROM	
8	01-OCT-2020	21:41	820J0109.D	1	50AROM	
9	01-OCT-2020	22:07	820J0110.D	1	100AROM	
10	01-OCT-2020	22:32	820J0111.D	1	125AROM	
11	01-OCT-2020	22:57	820J0112.D	1	150AROM	
12	01-OCT-2020	23:23	820J0113.D	1	200AROM	
13	01-OCT-2020	23:48	820J0114.D	1	AROMSCV1	
14	02-OCT-2020	03:10	820J0122.D	1	AROMICV1	
15	02-OCT-2020	03:36	820J0123.D	1	BII0795-BLK2	
16	02-OCT-2020	04:01	820J0124.D	1	BII0795-BS2	
17	02-OCT-2020	04:27	820J0125.D	1	20I0109-02	
18	02-OCT-2020	04:52	820J0126.D	1	20I0109-03	
19	02-OCT-2020	05:18	820J0127.D	1	20I0109-05	
20	02-OCT-2020	05:43	820J0128.D	1	20I0109-07	
21	02-OCT-2020	06:09	820J0129.D	1	20I0109-08	
22	02-OCT-2020	06:34	820J0130.D	1	20I0109-09	
23	02-OCT-2020	06:59	820J0131.D	1	20I0109-10	
24	02-OCT-2020	07:24	820J0132.D	1	BII0795-MS2	
25	02-OCT-2020	07:49	820J0133.D	1	BII0795-MSD2	
26	02-OCT-2020	08:14	820J0134.D	1	20I0109-11	
27	02-OCT-2020	08:39	820J0135.D	1	20I0149-01	
28	02-OCT-2020	09:05	820J0136.D	1	AROMCCV1	
29	02-OCT-2020	09:30	820J0137.D	1	20I0149-02	
30	02-OCT-2020	09:55	820J0138.D	1	20I0149-05	
31	02-OCT-2020	10:21	820J0139.D	1	20I0149-07	
32	02-OCT-2020	10:46	820J0140.D	1	20I0149-08	
33	02-OCT-2020	11:12	820J0141.D	1	20I0149-09	
34	02-OCT-2020	11:37	820J0142.D	1	20I0149-10	
35	02-OCT-2020	12:03	820J0143.D	1	AROMCCV2	
36	02-OCT-2020	21:52	820J0166.D	1	AROMCCV5	
37	03-OCT-2020	02:05	820J0176.D	1	BII0478-BLK2	
38	03-OCT-2020	02:30	820J0177.D	1	BII0478-BS2	
39	03-OCT-2020	02:55	820J0178.D	1	BII0478-BSD2	
40	03-OCT-2020	03:20	820J0179.D	1	20I0212-03	
41	03-OCT-2020	03:46	820J0180.D	1	BII0481-BLK2	
42	03-OCT-2020	04:11	820J0181.D	1	BII0481-BS2	
43	03-OCT-2020	04:36	820J0182.D	1	BII0481-BSD2	
44	03-OCT-2020	05:01	820J0183.D	1	20I0212-06	
45	03-OCT-2020	05:26	820J0184.D	1	20I0212-24	
46	03-OCT-2020	06:17	820J0186.D	1	AROMCCV7	
47	03-OCT-2020	08:46	820J0192.D	1	BII0585-BLK2	
48	03-OCT-2020	09:11	820J0193.D	1	BII0585-BS2	
49	03-OCT-2020	09:35	820J0194.D	1	BII0585-BSD2	
50	03-OCT-2020	10:01	820J0195.D	1	20I0267-08	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	03-OCT-2020	10:26	820J0196.D	1	20I0267-16	
52	03-OCT-2020	11:16	820J0198.D	1	AROMCCV9	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

ARI Job No.: RINS Method: EPHArOm.m Instrument: fid8.i Date: 01-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1718	820J0101.D	RINSE		1	NO MANUAL INTEGRATION
1800	820J0102.D	RINSE		1	NO MANUAL INTEGRATION
1825	820J0103.D	RINSE		1	NO MANUAL INTEGRATION
1934	820J0104.D	RINSE		1	NO MANUAL INTEGRATION
1959	820J0105.D	RINSE		1	NO MANUAL INTEGRATION
2025	820J0106.D	ARIB		1	NO MANUAL INTEGRATION
2116	820J0108.D	20AROM		1	1,2,3-Trimetben, Benzo-ghi-per,
2141	820J0109.D	50AROM		1	NO MANUAL INTEGRATION
2207	820J0110.D	100AROM		1	Benzo-ghi-per,
2232	820J0111.D	125AROM		1	NO MANUAL INTEGRATION
2257	820J0112.D	150AROM		1	NO MANUAL INTEGRATION
2323	820J0113.D	200AROM		1	Benzo-ghi-per,
2348	820J0114.D	AROMSCV1		1	NO MANUAL INTEGRATION
0310	820J0122.D	AROMICV1		1	NO MANUAL INTEGRATION
0336	820J0123.D	BII0795-BLK2		1	NO MANUAL INTEGRATION
0401	820J0124.D	BII0795-BS2		1	NO MANUAL INTEGRATION
0427	820J0125.D	20I0109-02		1	1-chlorooctodecane (AROMATIC),

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0452	820J0126.D	20I0109-03	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0518	820J0127.D	20I0109-05	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0543	820J0128.D	20I0109-07	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0609	820J0129.D	20I0109-08	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0634	820J0130.D	20I0109-09	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0659	820J0131.D	20I0109-10	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0724	820J0132.D	BII0795-MS2	1	1	Benzo-ghi-per, 1-chlorooctodecane(AROMATIC), o-Terph Surr,
0749	820J0133.D	BII0795-MSD2	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0814	820J0134.D	20I0109-11	1		NO MANUAL INTEGRATION
0839	820J0135.D	20I0149-01	1		NO MANUAL INTEGRATION
0905	820J0136.D	AROMCCV1	1		NO MANUAL INTEGRATION
0930	820J0137.D	20I0149-02	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0955	820J0138.D	20I0149-05	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1021	820J0139.D	20I0149-07	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1046	820J0140.D	20I0149-08	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1112	820J0141.D	20I0149-09	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1137	820J0142.D	20I0149-10	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1203	820J0143.D	AROMCCV2	1		NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2152	820J0166.D	AROMCCV5	1		Benzo-ghi-per,
0205	820J0176.D	BII0478-BLK2	1		NO MANUAL INTEGRATION
0230	820J0177.D	BII0478-BS2	1		NO MANUAL INTEGRATION
0255	820J0178.D	BII0478-BSD2	1		NO MANUAL INTEGRATION
0320	820J0179.D	20I0212-03	1		NO MANUAL INTEGRATION
0346	820J0180.D	BII0481-BLK2	1		NO MANUAL INTEGRATION
0411	820J0181.D	BII0481-BS2	1		NO MANUAL INTEGRATION
0436	820J0182.D	BII0481-BSD2	1		NO MANUAL INTEGRATION
0501	820J0183.D	20I0212-06	1		NO MANUAL INTEGRATION
0526	820J0184.D	20I0212-24	1		NO MANUAL INTEGRATION
0617	820J0186.D	AROMCCV7	1		NO MANUAL INTEGRATION
0846	820J0192.D	BII0585-BLK2	1		NO MANUAL INTEGRATION
0911	820J0193.D	BII0585-BS2	1		NO MANUAL INTEGRATION
0935	820J0194.D	BII0585-BSD2	1		NO MANUAL INTEGRATION
1001	820J0195.D	20I0267-08	1		NO MANUAL INTEGRATION
1026	820J0196.D	20I0267-16	1		NO MANUAL INTEGRATION
1116	820J0198.D	AROMCCV9	1		Benzo-ghi-per,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

ARI Job No.: ALIB Method: EPHaliph.m Instrument: fid8.i Date: 01-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2050	820J0107.D	ALIB		1	NO MANUAL INTEGRATION
0013	820J0115.D	20ALIPH		1	C10,
0039	820J0116.D	50ALPIH		1	C10,
0104	820J0117.D	100ALIPH		1	NO MANUAL INTEGRATION
0129	820J0118.D	125ALIPH		1	NO MANUAL INTEGRATION
0154	820J0119.D	150ALIPH		1	NO MANUAL INTEGRATION
0219	820J0120.D	200ALIPH		1	NO MANUAL INTEGRATION
0245	820J0121.D	ALIPHSC2		1	C8,
1228	820J0144.D	ALIPHICV2		1	NO MANUAL INTEGRATION
1254	820J0145.D	BII0795-BLK1		1	NO MANUAL INTEGRATION
1320	820J0146.D	BII0795-BS1		1	C10,
1346	820J0147.D	20I0109-02		1	1-Chloro-Octodecane,
1412	820J0148.D	20I0109-03		1	1-Chloro-Octodecane,
1438	820J0149.D	20I0109-05		1	1-Chloro-Octodecane,
1504	820J0150.D	20I0109-07		1	1-Chloro-Octodecane,
1529	820J0151.D	20I0109-08		1	1-Chloro-Octodecane,
1555	820J0152.D	20I0109-09		1	1-Chloro-Octodecane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1621	820J0153.D	20I0109-10		1	1-Chloro-Octodecane,
1646	820J0154.D	BII0795-MS1		1	C10, 1-Chloro-Octodecane,
1712	820J0155.D	BII0795-MSD1		1	C10, 1-Chloro-Octodecane,
1738	820J0156.D	ALIPHCCV3		1	NO MANUAL INTEGRATION
1803	820J0157.D	20I0109-11		1	NO MANUAL INTEGRATION
1829	820J0158.D	20I0149-01		1	1-Chloro-Octodecane,
1854	820J0159.D	20I0149-02		1	1-Chloro-Octodecane,
1920	820J0160.D	20I0149-05		1	1-Chloro-Octodecane,
1945	820J0161.D	20I0149-07		1	1-Chloro-Octodecane,
2010	820J0162.D	20I0149-08		1	1-Chloro-Octodecane,
2036	820J0163.D	20I0149-09		1	1-Chloro-Octodecane,
2101	820J0164.D	20I0149-10		1	1-Chloro-Octodecane,
2127	820J0165.D	ALIPHCCV4		1	C10,
2217	820J0167.D	BII0478-BLK1		1	NO MANUAL INTEGRATION
2242	820J0168.D	BII0478-BS1		1	C10,
2308	820J0169.D	BII0478-BSD1		1	C10,
2333	820J0170.D	20I0212-03		1	NO MANUAL INTEGRATION
2358	820J0171.D	BII0481-BLK1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0023	820J0172.D	BII0481-BS1	1	C10,	
0049	820J0173.D	BII0481-BS1	1	C10,	
0114	820J0174.D	20I0212-06	1	NO MANUAL INTEGRATION	
0139	820J0175.D	20I0212-24	1	NO MANUAL INTEGRATION	
0552	820J0185.D	ALIPHCCV6	1	NO MANUAL INTEGRATION	
0642	820J0187.D	BII0585-BLK1	1	NO MANUAL INTEGRATION	
0707	820J0188.D	BII0585-BS1	1	C10,	
0732	820J0189.D	BII0585-BS1	1	C10,	
0757	820J0190.D	20I0267-08	1	NO MANUAL INTEGRATION	
0821	820J0191.D	20I0267-16	1	NO MANUAL INTEGRATION	
1051	820J0197.D	ALIPHCCV8	1	NO MANUAL INTEGRATION	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 01-OCT-2020 21:16
 End Cal Date : 01-OCT-2020 23:23
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\target\share\chem2\fid8.i\20201001arom.b\EPHArOm.m
 Last Edit : 03-Oct-2020 16:14 jrains
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem2\fid8.i\20201001arom.b\820J0108.D
 Level 2: \\target\share\chem2\fid8.i\20201001arom.b\820J0109.D
 Level 3: \\target\share\chem2\fid8.i\20201001arom.b\820J0110.D
 Level 4: \\target\share\chem2\fid8.i\20201001arom.b\820J0111.D
 Level 5: \\target\share\chem2\fid8.i\20201001arom.b\820J0112.D
 Level 6: \\target\share\chem2\fid8.i\20201001arom.b\820J0113.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	150.000 Level 4	200.000 Level 5	0.000e+00 Level 6	RRF	% RSD
2 Toluene	202541	200103	210181	206834	218140	220027	209638	3.873
75 1-chlorooctadecane(AROMATIC)	132313	153399	174967	173349	185447	188648	168020	12.750
3 1,2,3-Trimetben	191434	197193	228204	223881	237337	237890	219323	9.202
4 Naphthalene	213238	216541	229212	224164	240841	240261	227376	5.122
7 Acenaphthene	199093	205855	221749	218129	235859	234173	219143	6.743
13 Pyrene	184602	191251	203229	197225	214605	207275	199698	5.474
21 Benzo-ghi-per	178290	180537	192963	187635	203195	198613	190205	5.200
\$ 11 o-Terph Surr	201436	208092	221843	218933	236273	231635	219702	6.075

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 02-OCT-2020 00:13
 End Cal Date : 02-OCT-2020 02:19
 Quant Method : ESTD
 Origin : Disabled
 Target Version : 4.14
 Integrator : Falcon
 Method file : \\target\share\chem2\fid8.i\20201001aliph.b\EPHALiph.m
 Last Edit : 02-Oct-2020 15:45 jrains
 Curve Type : Average

Calibration File Names:

Level 1: \\target\share\chem2\fid8.i\20201001aliph.b\820J0115.D
 Level 2: \\target\share\chem2\fid8.i\20201001aliph.b\820J0116.D
 Level 3: \\target\share\chem2\fid8.i\20201001aliph.b\820J0117.D
 Level 4: \\target\share\chem2\fid8.i\20201001aliph.b\820J0118.D
 Level 5: \\target\share\chem2\fid8.i\20201001aliph.b\820J0119.D
 Level 6: \\target\share\chem2\fid8.i\20201001aliph.b\820J0120.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	150.000 Level 4	200.000 Level 5	0.000e+00 Level 6	RRF	% RSD
1 C8	176338	175062	188683	191276	198627	194095	187347	5.131
2 C10	176420	177478	200312	204928	214702	212340	197697	8.537
3 C12	195247	190902	206967	204132	217696	216877	205303	5.337
4 C16	187421	187647	206440	200811	216724	215676	202453	6.411
6 C21	202391	188336	194246	190241	200304	194799	195053	2.812
7 C34	166616	167083	182209	181067	186280	190891	179024	5.610
\$ 5 1-Chloro-Octodecane	132313	153399	174967	173349	185447	188648	168020	12.750

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid8.i\20201001arom.b\EPHArrom.m
 Batch File: \\target\share\chem2\fid8.i\20201001arom.b
 Inst ID: fid8.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	820J0108	820J0109	820J0110	820J0111	820J0112	820J0113
INJ. DATE:	01-OCT-2020	01-OCT-2020	01-OCT-2020	01-OCT-2020	01-OCT-2020	01-OCT-2020
INJ. TIME:	21:16	21:41	22:07	22:32	22:57	23:23

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
2 Toluene	1.881	1.886	1.889	1.889	1.892	1.895	1.889	1.839-1.939	1.889	0.005
75 1-chlorooctodecane(ARO)	6.978	7.003	7.003	7.006	6.973	6.974	7.002	6.952-7.052	6.990	0.016
3 1,2,3-Trimetben	3.357	3.360	3.364	3.365	3.367	3.371	3.357	3.307-3.407	3.364	0.005
4 Naphthalene	4.074	4.076	4.081	4.083	4.085	4.088	4.086	4.036-4.136	4.081	0.005
7 Acenaphthene	5.124	5.126	5.130	5.133	5.135	5.138	5.137	5.087-5.187	5.131	0.005
11 o-Terph Surr	6.397	6.397	6.403	6.405	6.408	6.412	6.410	6.360-6.460	6.404	0.006
13 Pyrene	7.182	7.184	7.193	7.196	7.200	7.205	7.204	7.154-7.254	7.193	0.009
21 Benzo-ghi-per	10.312	10.323	10.342	10.350	10.359	10.371	10.353	10.303-10.403	10.343	0.022

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem2\fid8.i\20201001aliph.b\EPHALiph.m
 Batch File: \\target\share\chem2\fid8.i\20201001aliph.b
 Inst ID: fid8.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	820J0115	820J0116	820J0117	820J0118	820J0119	820J0120
INJ. DATE:	02-OCT-2020	02-OCT-2020	02-OCT-2020	02-OCT-2020	02-OCT-2020	02-OCT-2020
INJ. TIME:	00:13	00:39	01:04	01:29	01:54	02:19

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 C8	2.105	2.106	2.112	2.113	2.114	2.118	2.118	2.068-2.168	2.111	0.005
2 C10	3.245	3.249	3.253	3.254	3.256	3.259	3.259	3.209-3.309	3.253	0.005
3 C12	4.088	4.090	4.093	4.095	4.097	4.099	4.099	4.050-4.150	4.094	0.004
4 C16	5.428	5.429	5.433	5.435	5.437	5.438	5.438	5.388-5.488	5.433	0.004
5 1-Chloro-Octodecane	7.000	7.001	7.006	7.009	7.011	7.014	7.014	6.964-7.064	7.007	0.006
6 C21	7.032	7.034	7.039	7.041	7.045	7.047	7.047	6.997-7.097	7.040	0.006
7 C34	10.644	10.644	10.652	10.658	10.659	10.669	10.669	10.619-10.719	10.654	0.010

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

Security Status Report

Date: 05-Oct-2020 17:34

820J0107.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0115.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0116.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0117.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0118.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0119.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0120.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0121.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0144.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0145.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0146.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0147.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0148.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0149.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0150.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0151.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0152.D	Data Locked	jrains,	05-Oct-2020	17:34
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820J0158.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0159.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0160.D	Data Locked	jrains,	05-Oct-2020	17:34
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820J0164.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0165.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0167.D	Data Locked	jrains,	05-Oct-2020	17:34
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820J0174.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0175.D	Data Locked	jrains,	05-Oct-2020	17:34
820J0185.D	Data Locked	jrains,	05-Oct-2020	17:34
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820J0191.D
820J0197.D

Data Locked
Data Locked

j rains, 05-Oct-2020 17:34
j rains, 05-Oct-2020 17:34

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Security Status Report

Date: 05-Oct-2020 17:40

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820J0109.D	Data Locked	j rains, 05-Oct-2020 17:40
820J0110.D	Data Locked	j rains, 05-Oct-2020 17:40
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Date : 01-OCT-2020 20:50

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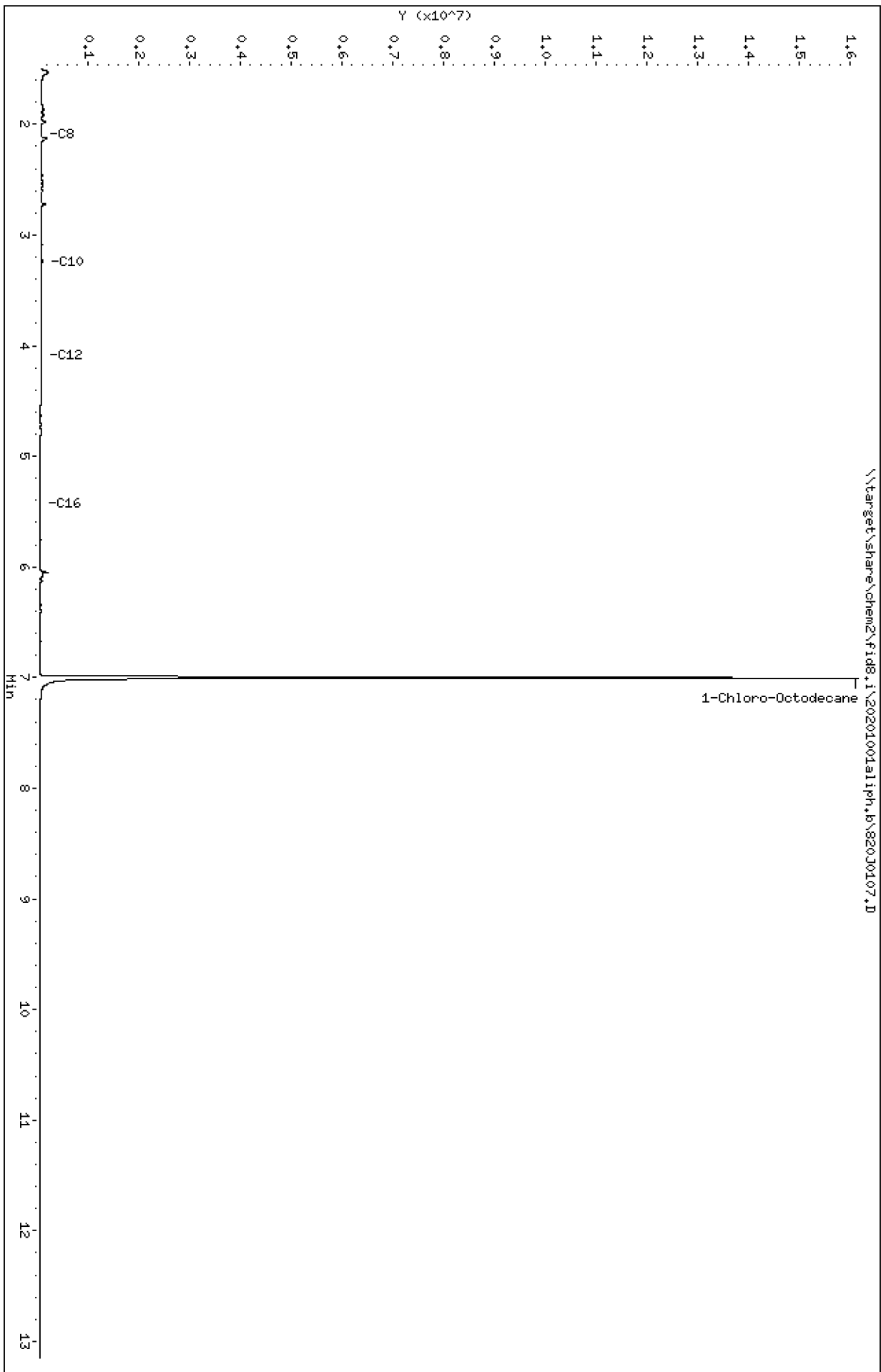
Sample Info: ALIB

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201001aliph.b/820J0107.D
Method: 20201001aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: ALIB
Client ID:
Injection: 01-OCT-2020 20:50
Matrix: NONE
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	2241826	11.6	(2.018 - 3.359)
C10-C12 Aliph.	762525	3.7	(3.359 - 4.199)
C12-C16 Aliph.	509118	2.5	(4.199 - 5.538)
C16-C21 Aliph.	608631	3.1	(5.538 - 7.147)
C21-C34 Aliph.	161111	0.9	(7.147 - 10.769)
Surrogate Rec:	61.1%	91.6 ug/mL	

Data File: \\target\share\chem2\fid8.1\20201001arom,b\820J0108.D
Date : 01-OCT-2020 21:16

Client ID:

Sample Info: 20HR0M

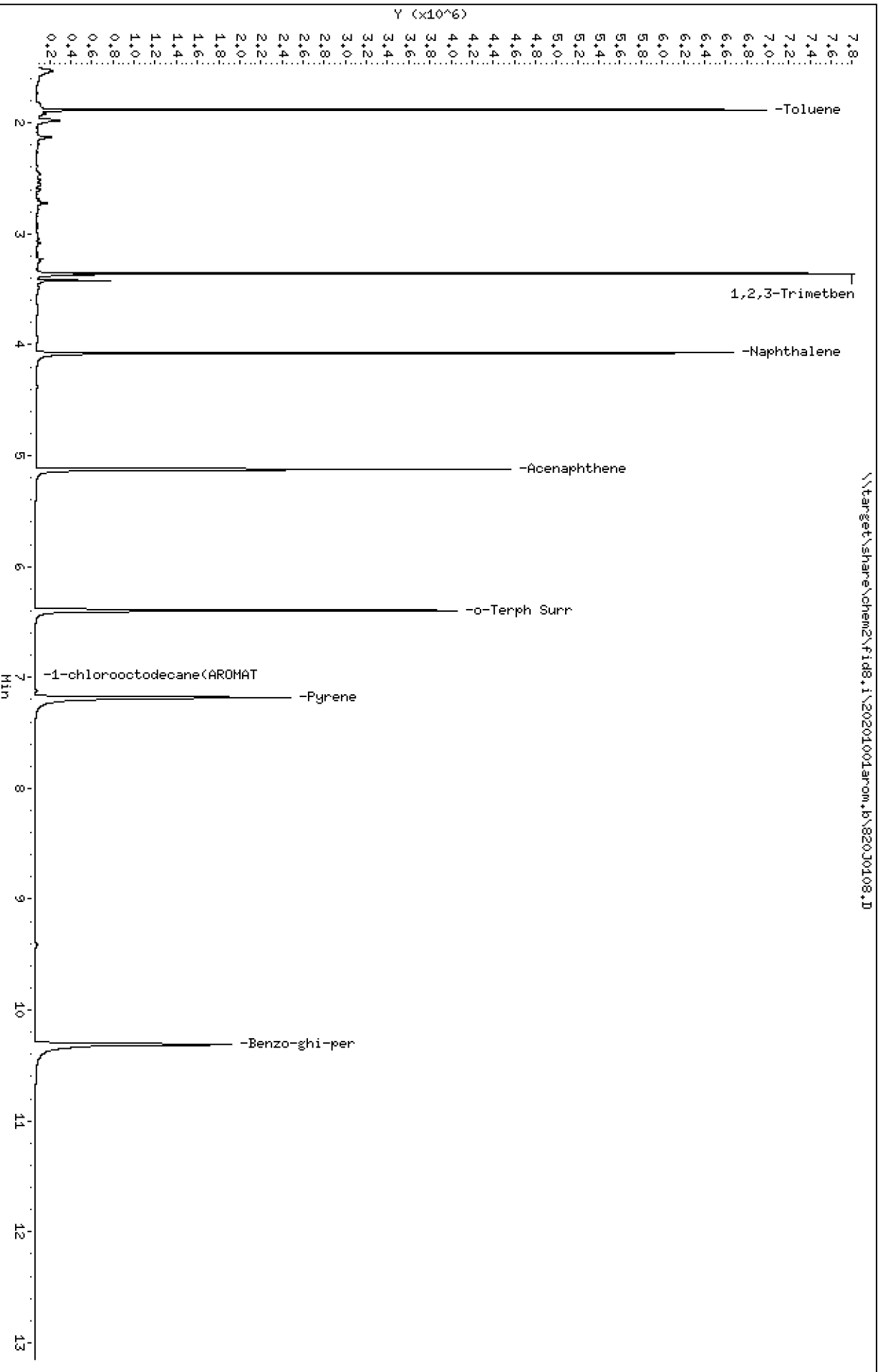
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 20AROM

ICal Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 21:16

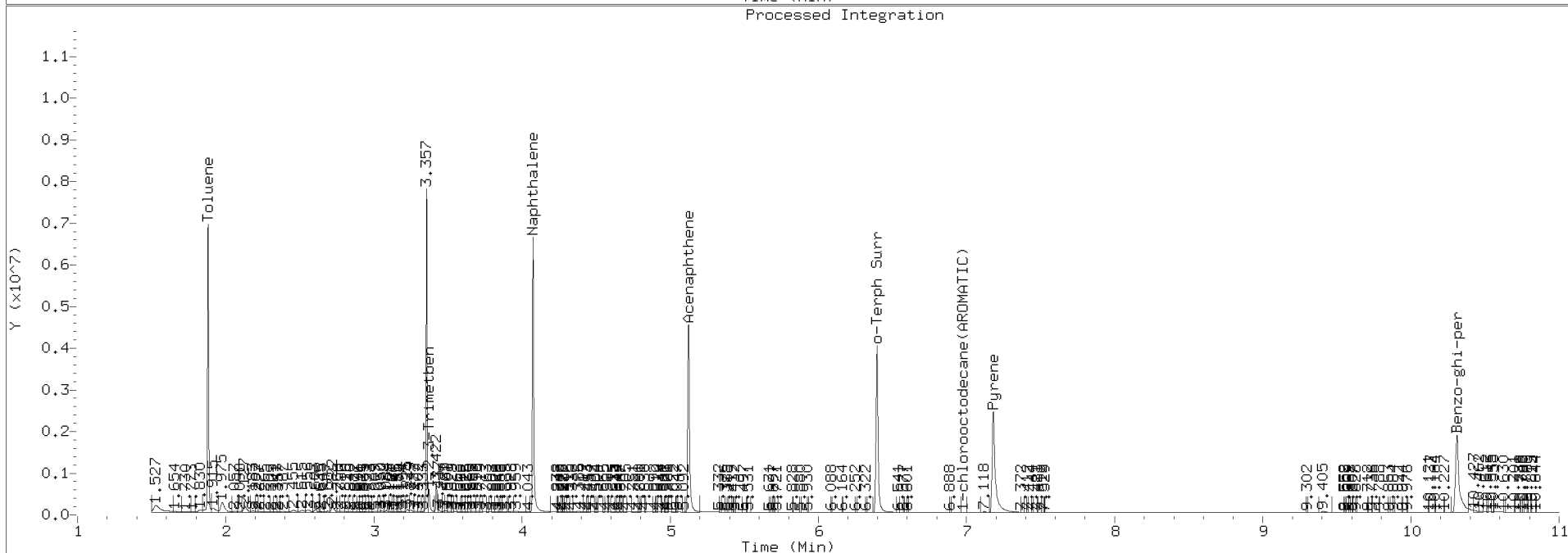
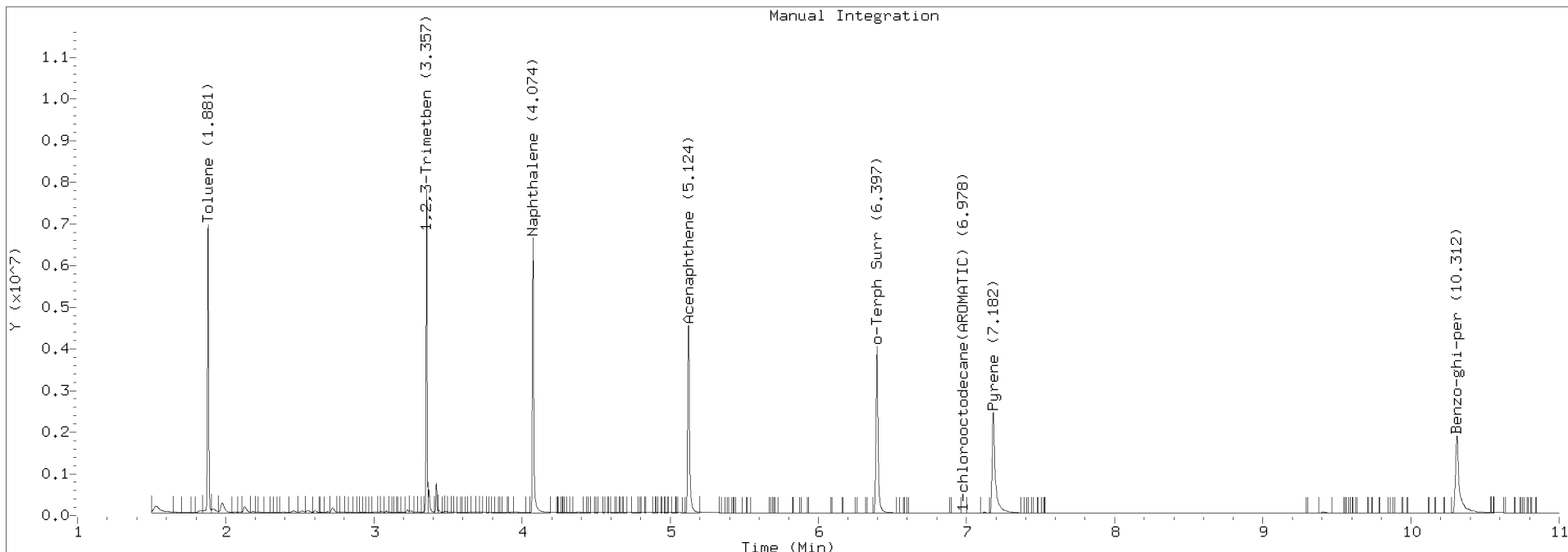
Lab File Name: 820J0108.D

Quant Range	Area*	Conc
C8-C10 Arom.	7879500	36.8
C10-C12 Arom.	4264763	18.8
C12-C16 Arom.	3981855	18.2
C16-C21 Arom.	3692046	18.5
C21-C34 Arom.	3565794	18.7
Surrogate	4028722	18.3

* From Range Reference Peak(s)

EPH Aromatics Manual Integrations Report

Datafile: FID8, 20201001arom.b/820J0108.D Injection: 01-OCT-2020 21:16
 Lab ID:20AROM



Data File: \\target\share\chem2\fid8.1\20201001arom_b\820J0109.D
Date : 01-OCT-2020 21:41

Client ID:

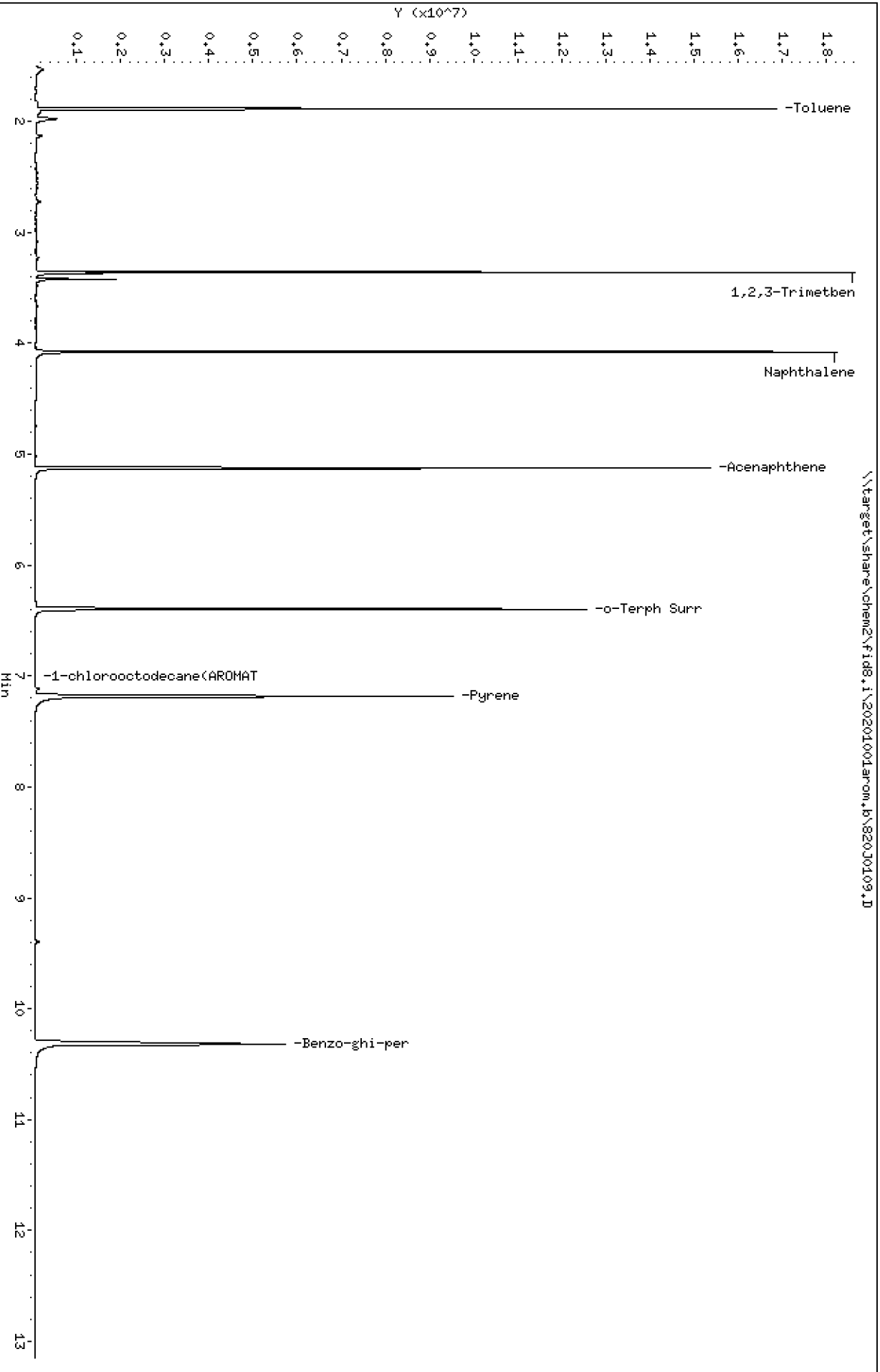
Sample Info: 504R0M

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 50AROM

ICal Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 21:41

Lab File Name: 820J0109.D

Quant Range	Area*	Conc
C8-C10 Arom.	19864827	92.7
C10-C12 Arom.	10827055	47.6
C12-C16 Arom.	10292755	47.0
C16-C21 Arom.	9562568	47.9
C21-C34 Arom.	9026865	47.5
Surrogate	10404619	47.4

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001arom,b\820J0110.D
Date : 01-OCT-2020 22:07

Client ID:

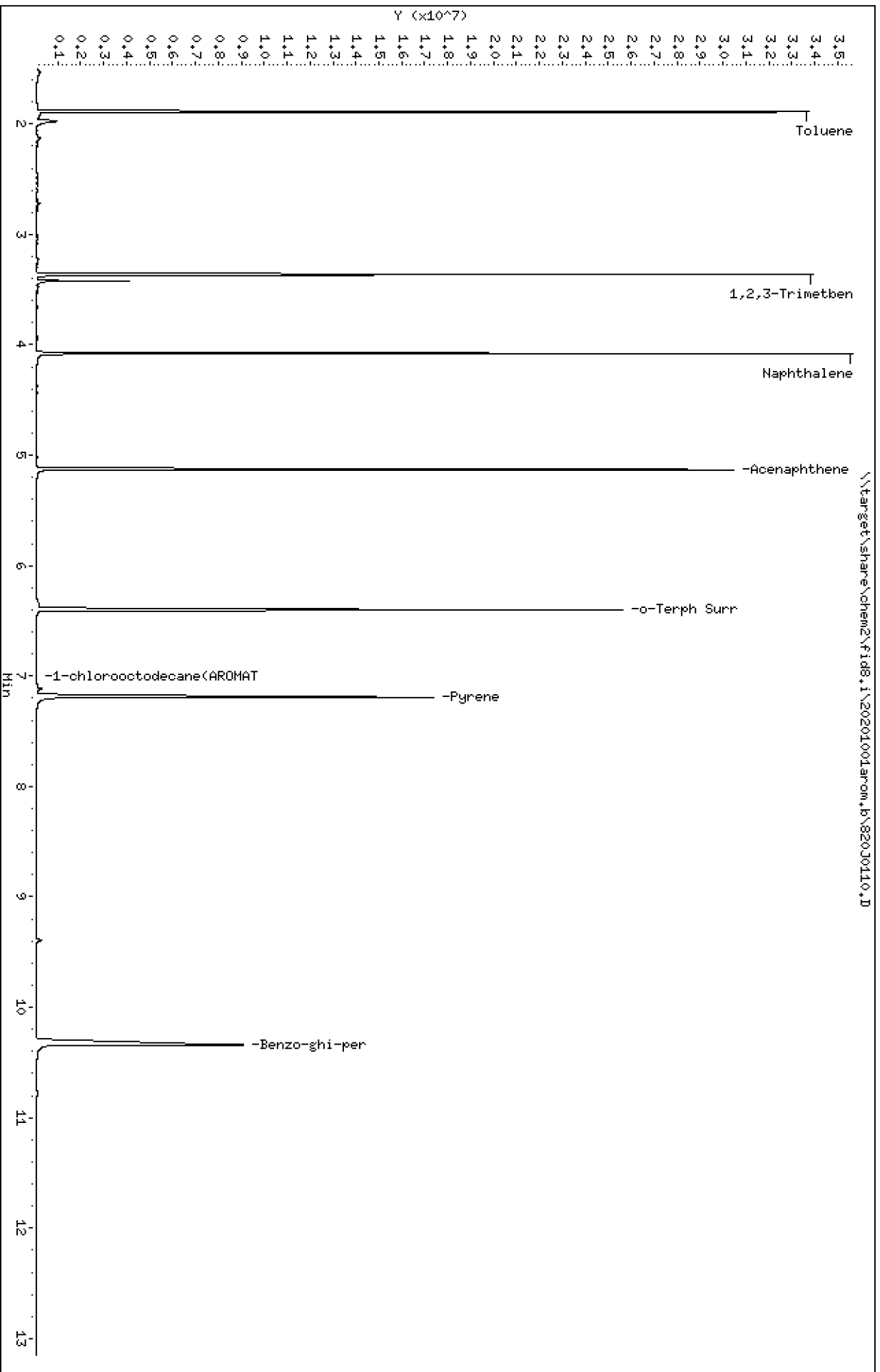
Sample Info: 100AROM

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 100AROM

ICal Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 22:07

Lab File Name: 820J0110.D

Quant Range	Area*	Conc
C8-C10 Arom.	43838545	204.3
C10-C12 Arom.	22921214	100.8
C12-C16 Arom.	22174890	101.2
C16-C21 Arom.	20322928	101.8
C21-C34 Arom.	19296272	101.4
Surrogate	22184280	101.0

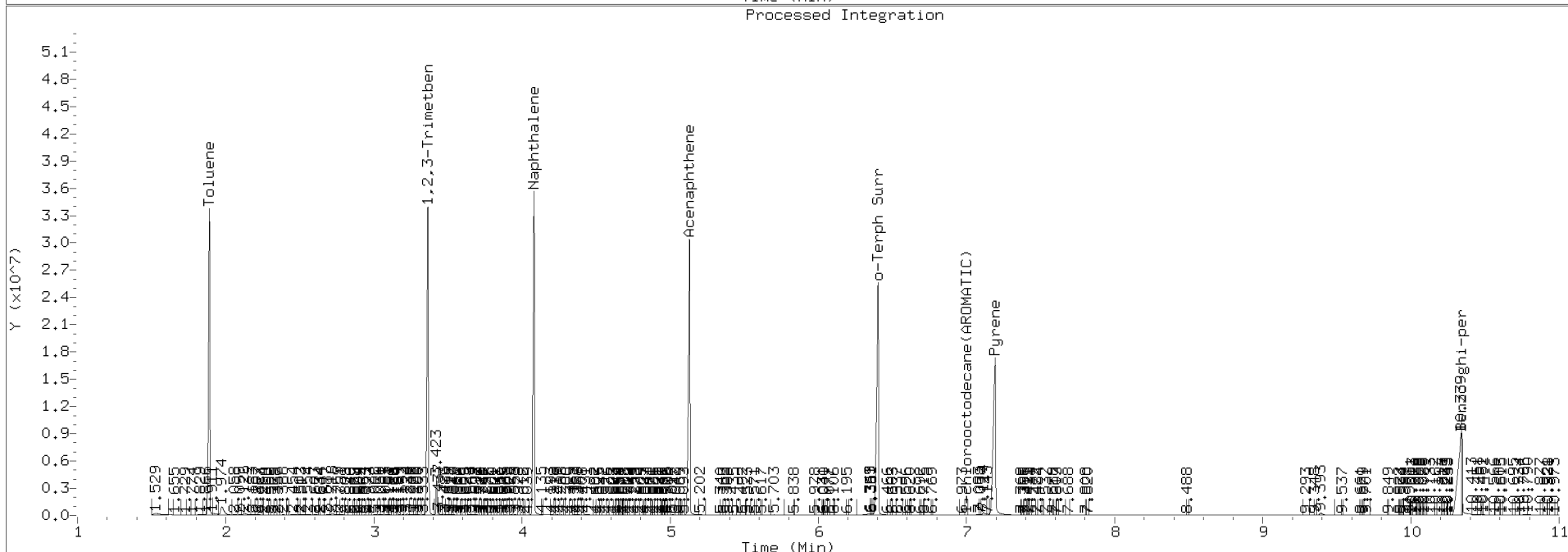
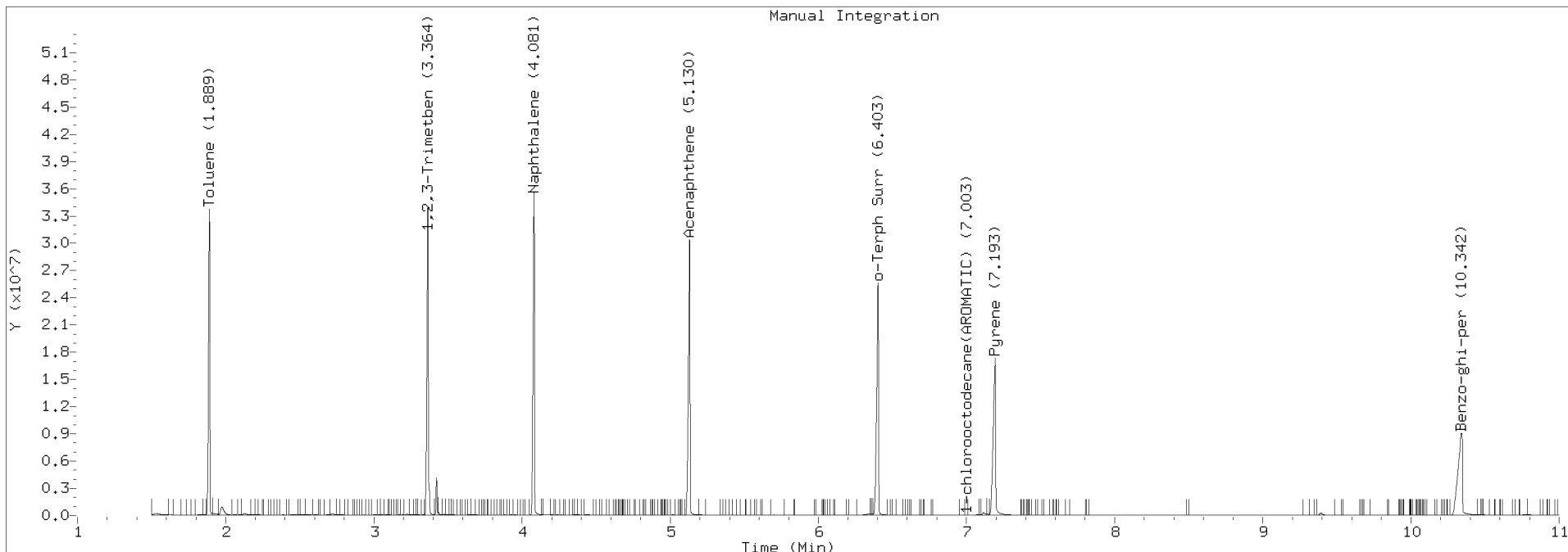
* From Range Reference Peak(s)

EPH Aromatics Manual Integrations Report

Datafile: FID8, 20201001arom.b/820J0110.D
 Lab ID:100AROM

20201001arom.b/820J0110.D

Injection: 01-OCT-2020 22:07



Data File: \\target\share\chem2\fid8.1\20201001arom_b\820J0111.D
Date: 01-OCT-2020 22:32

Client ID:

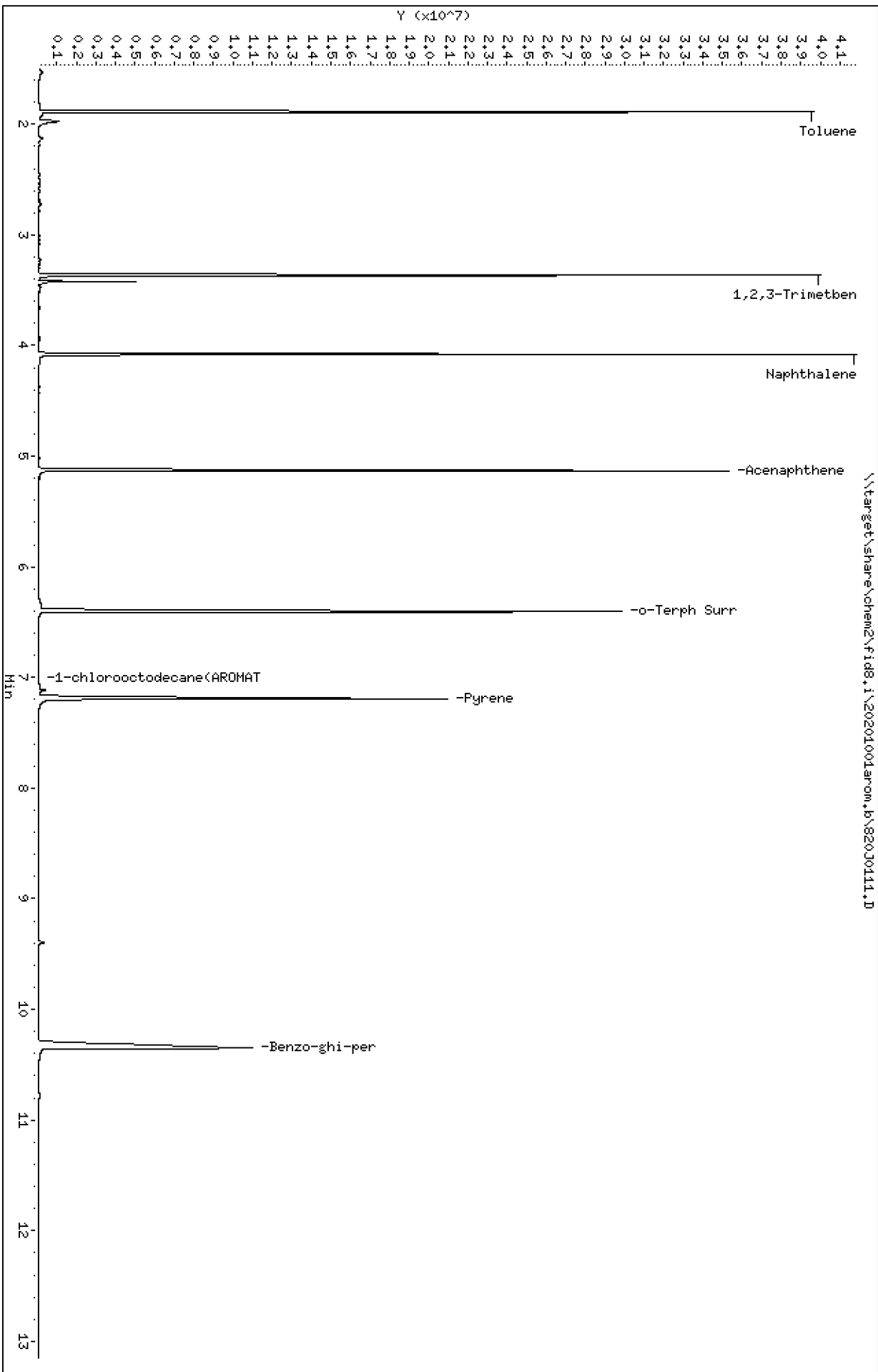
Sample Info: 125AROM

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 125AROM

ICal Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 22:32

Lab File Name: 820J0111.D

Quant Range		Area*	Conc
C8-C10	Arom.	53839388	250.9
C10-C12	Arom.	28020461	123.2
C12-C16	Arom.	27266098	124.4
C16-C21	Arom.	24653071	123.5
C21-C34	Arom.	23454396	123.3
Surrogate		27366622	124.6

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001arom_b\820J0112.D
Date : 01-OCT-2020 22:57

Client ID:

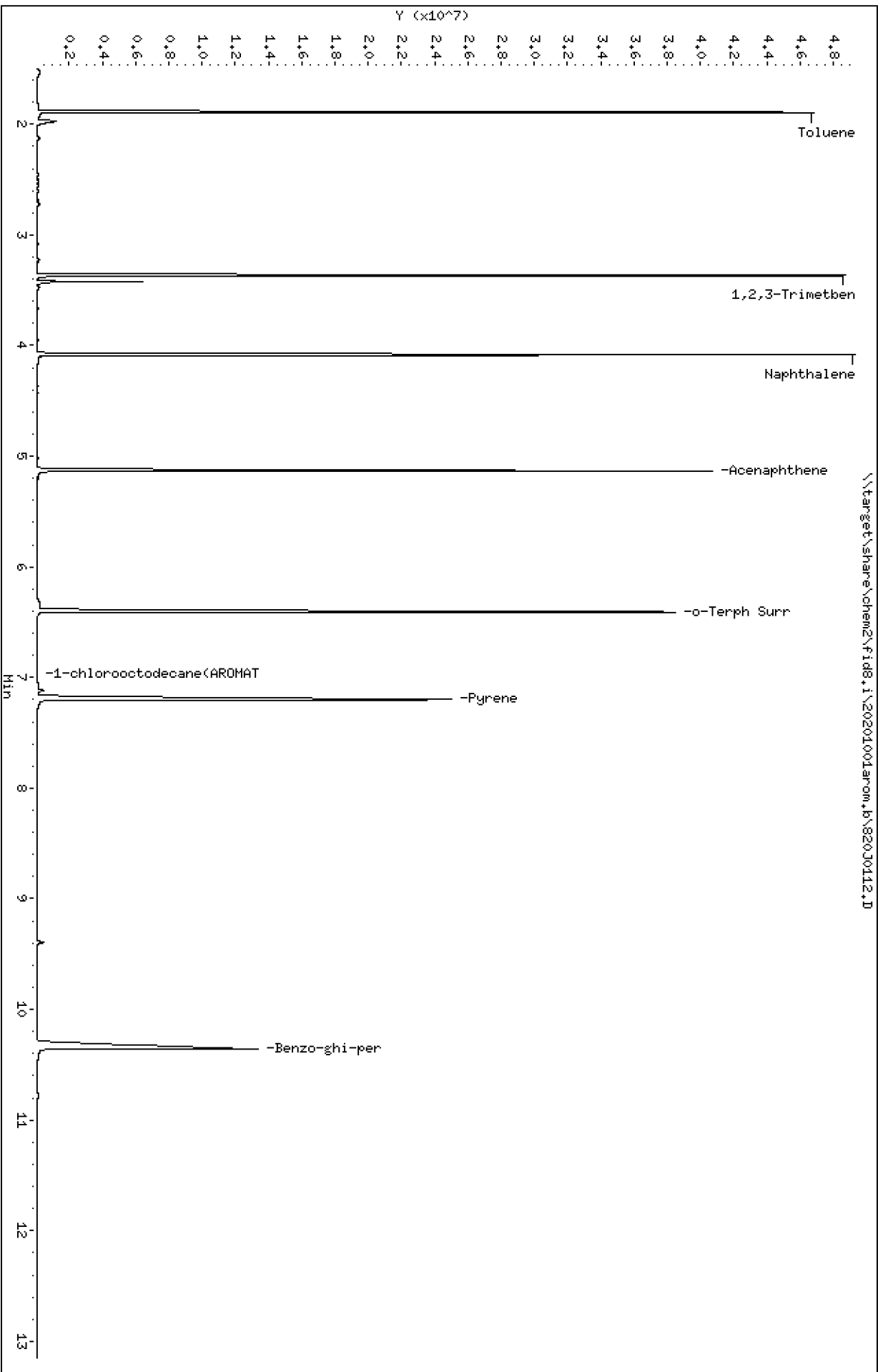
Sample Info: 150AROM

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 150AROM

Ical Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 22:57

Lab File Name: 820J0112.D

Quant Range	Area*	Conc
C8-C10 Arom.	68321514	318.4
C10-C12 Arom.	36126191	158.9
C12-C16 Arom.	35378805	161.4
C16-C21 Arom.	32190721	161.2
C21-C34 Arom.	30479246	160.2
Surrogate	35440907	161.3

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001arom_b\820J0113.D
Date : 01-OCT-2020 23:23

Client ID:

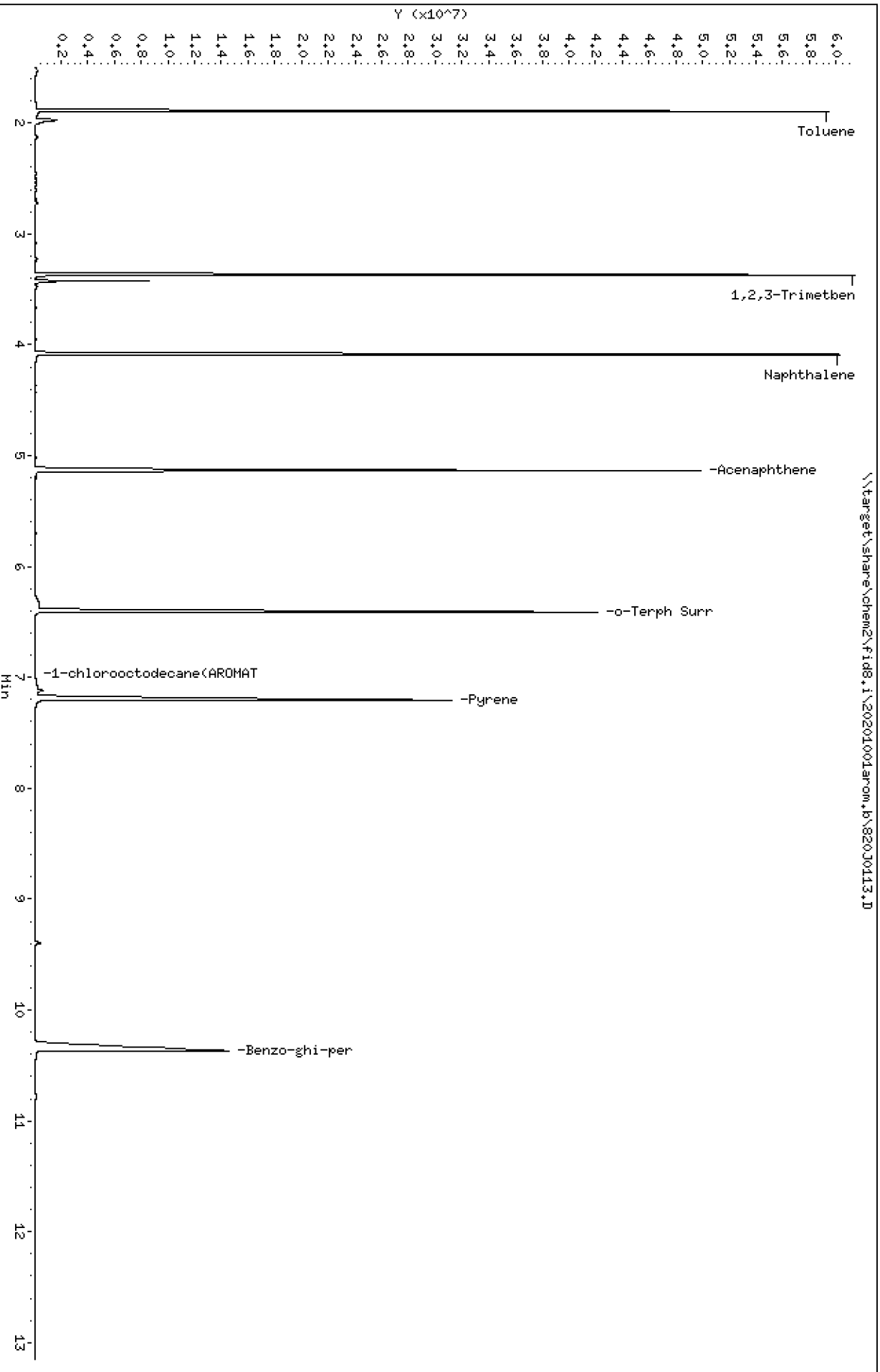
Sample Info: 2009AROM

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH AROMATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 200AROM

ICal Date: 01-OCT-2020

Instrument: FID8.I

Analysis Time: 23:23

Lab File Name: 820J0113.D

Quant Range	Area*	Conc
C8-C10 Arom.	91583324	426.8
C10-C12 Arom.	48052127	211.3
C12-C16 Arom.	46834541	213.7
C16-C21 Arom.	41455089	207.6
C21-C34 Arom.	39722566	208.8
Surrogate	46327076	210.9

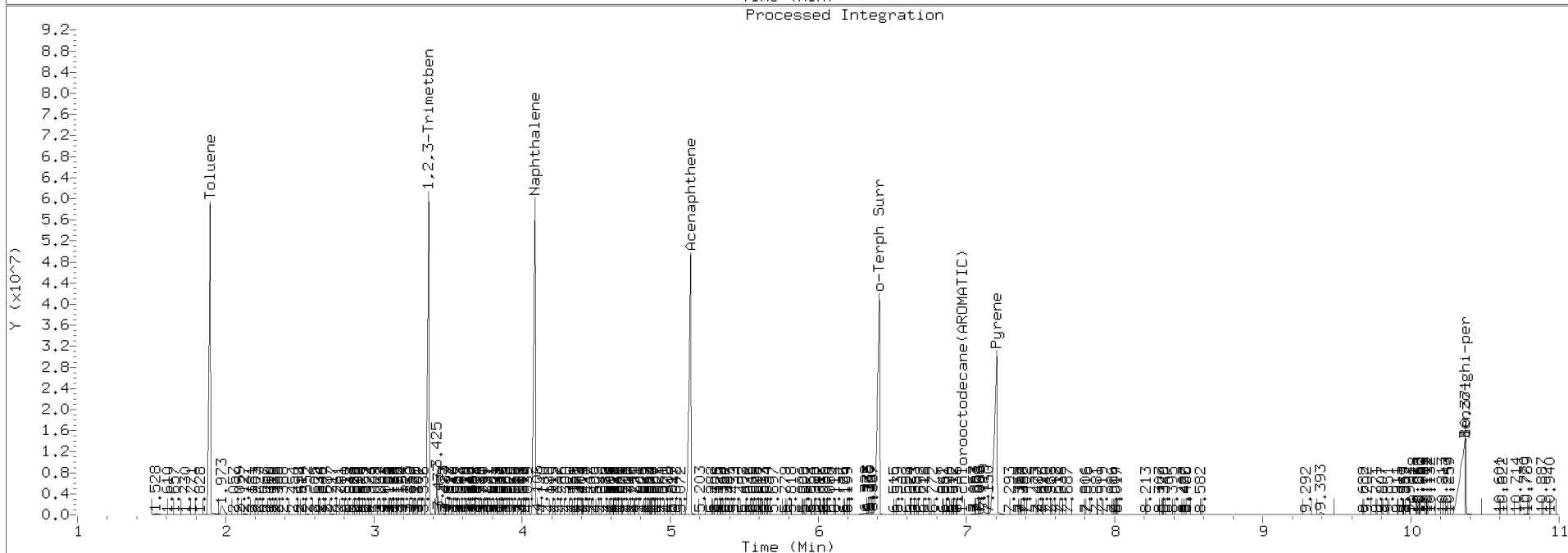
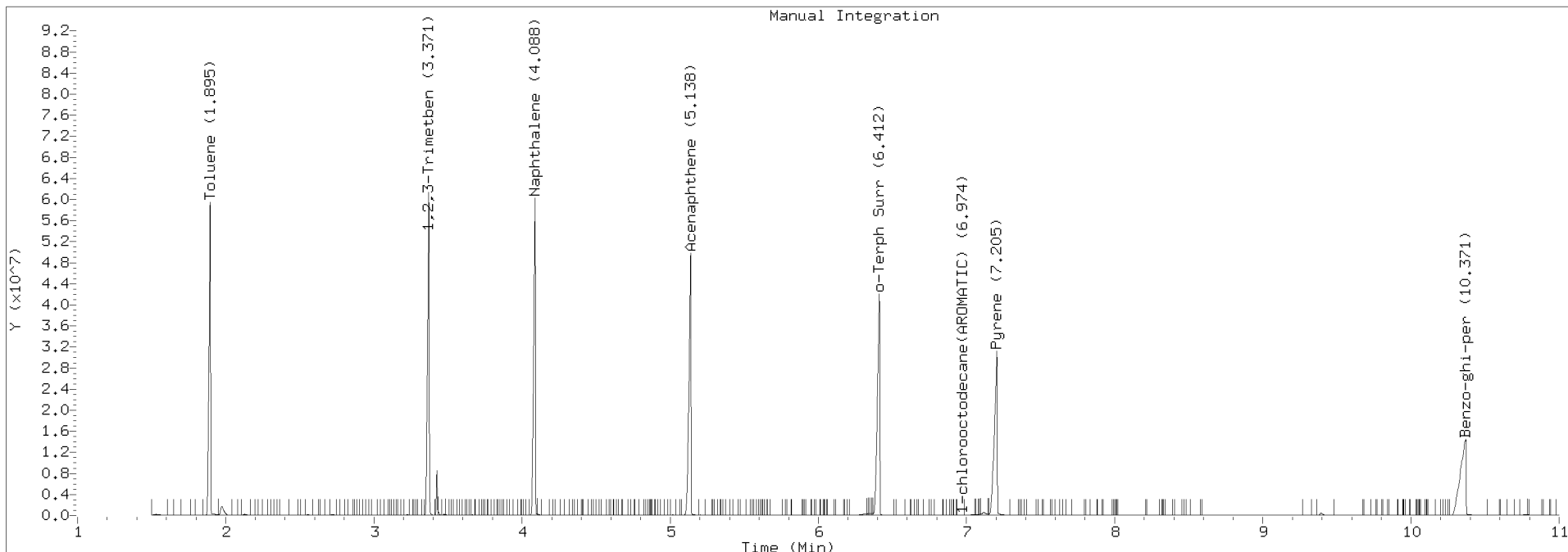
* From Range Reference Peak(s)

EPH Aromatics Manual Integrations Report

Datafile: FID8, 20201001arom.b/820J0113.D
 Lab ID:200AROM

20201001arom.b/820J0113.D

Injection: 01-OCT-2020 23:23



Data File: \\target\share\chem2\fid8.1\20201001arom,b\820J0114.D
Date : 01-OCT-2020 23:48

Client ID:

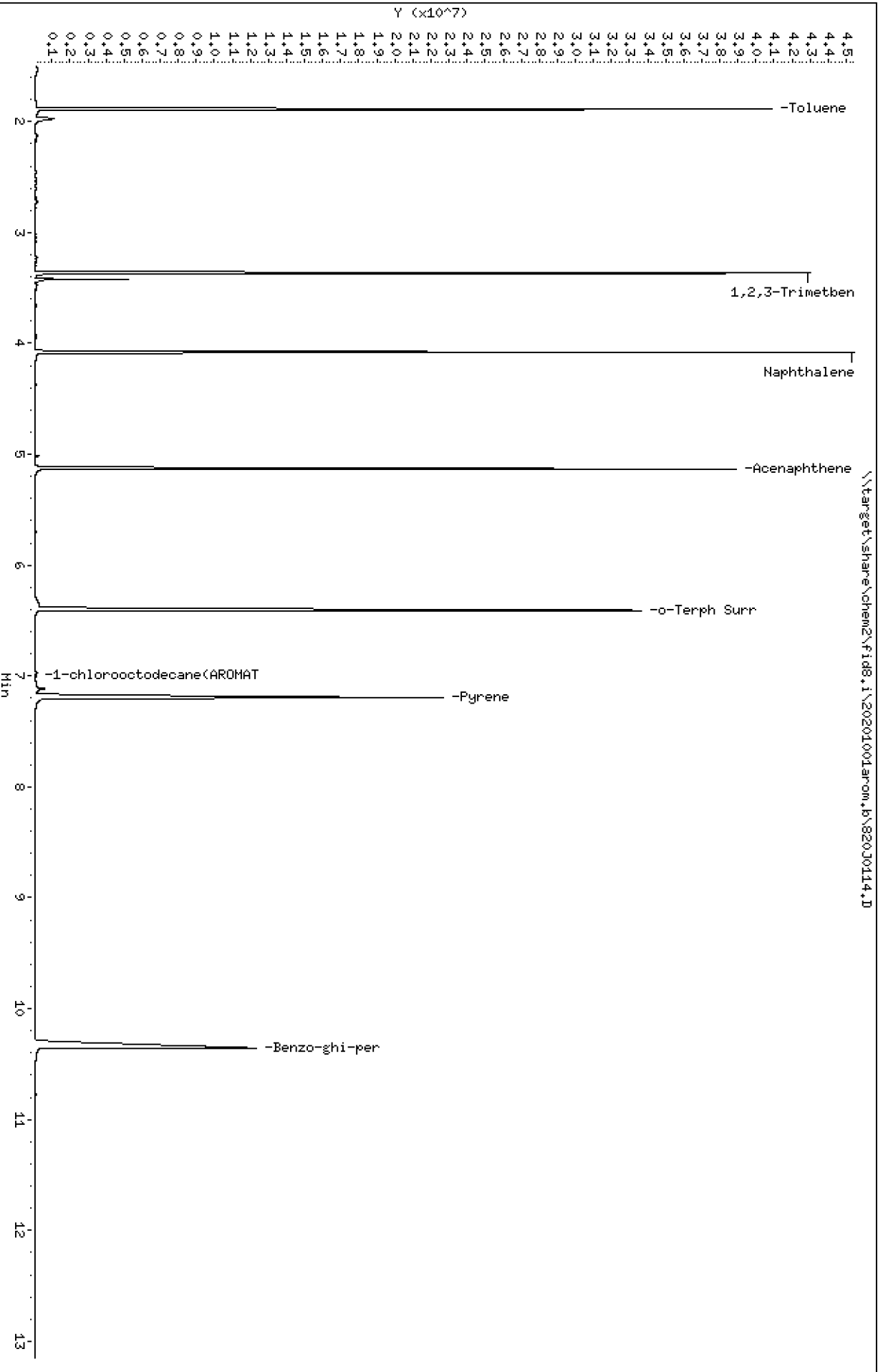
Sample Info: ARDMSCV1

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



Analytical Resources Inc.
WA-EPH Aromatics Report

Data file: 20201001arom.b/820J0114.D
Method: 20201001arom.b\EPHArOm.m
Instrument: fid8.i
Operator: JGR
Report Date: 10/05/2020
Macro: AROM120911FID8

ARI ID: AROMSCV1
Client ID:
Injection: 01-OCT-2020 23:48
Matrix: NONE
Dilution Factor: 1

EPH-AROMATIC RESULTS

Quant Range	RF	Area	Conc	Time Range
C8-C10 Arom.	214480	64104813	298.9	(1.789 - 3.457)
C10-C12 Arom.	227376	32593872	143.3	(3.457 - 4.186)
C12-C16 Arom.	219143	31578494	144.1	(4.186 - 5.237)
C16-C21 Arom.	199698	30919014	154.8	(5.237 - 7.304)
C21-C34 Arom.	190205	27644405	145.3	(7.304 - 10.453)

Surrogate Rec: 104.4% 156.6 ug/mL

Data File: \\target\share\chem2\fid8.1\20201001a1iph.b\82030115.D

Page 1

Date : 02-OCT-2020 00:13

Client ID:

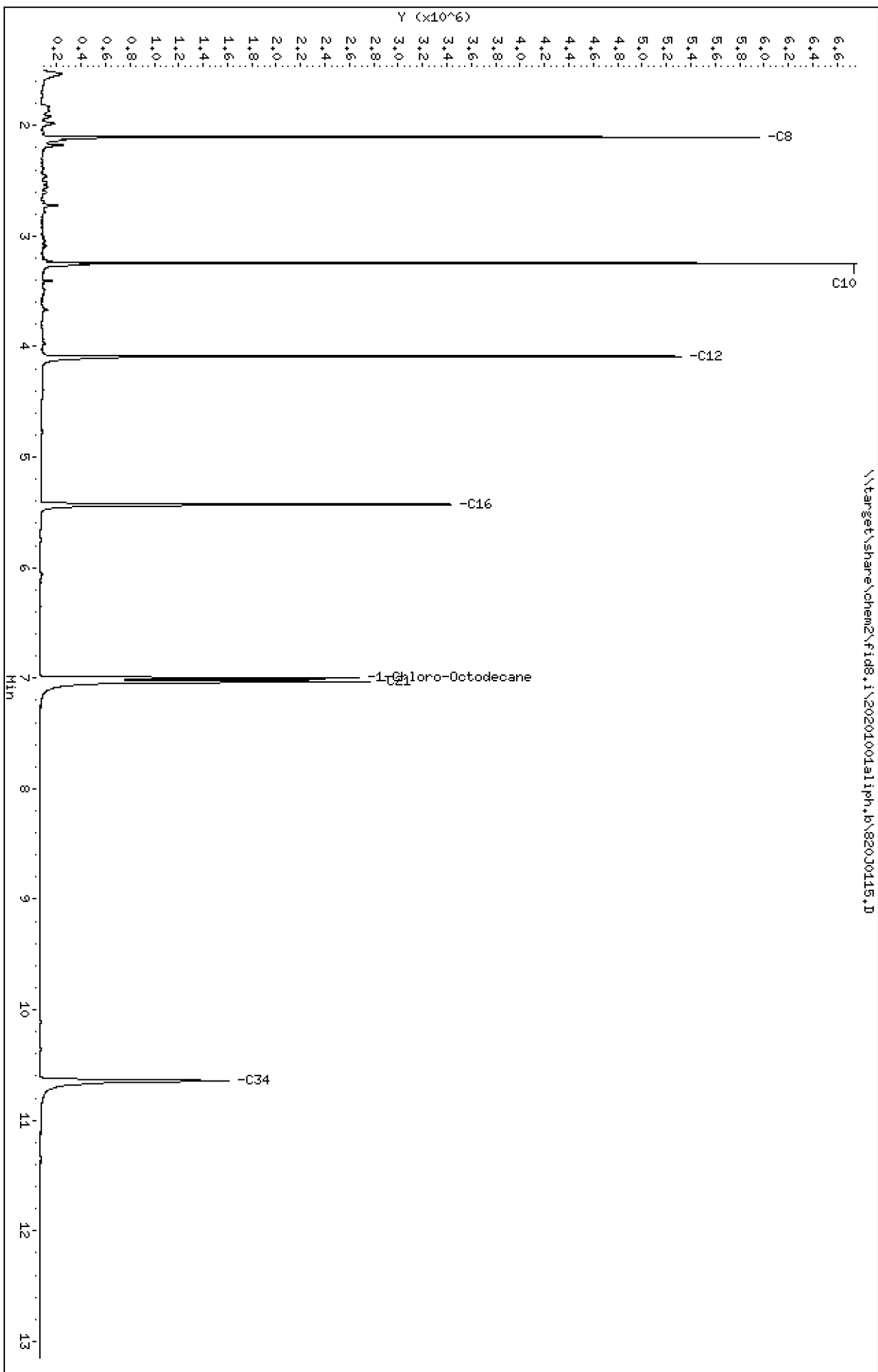
Instrument: fid8.1

Sample Info: 20HLIPH

Operator: JGR

Column phase: RTX-1

Column diameter: 0.25



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 20ALIPH

ICal Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 00:13

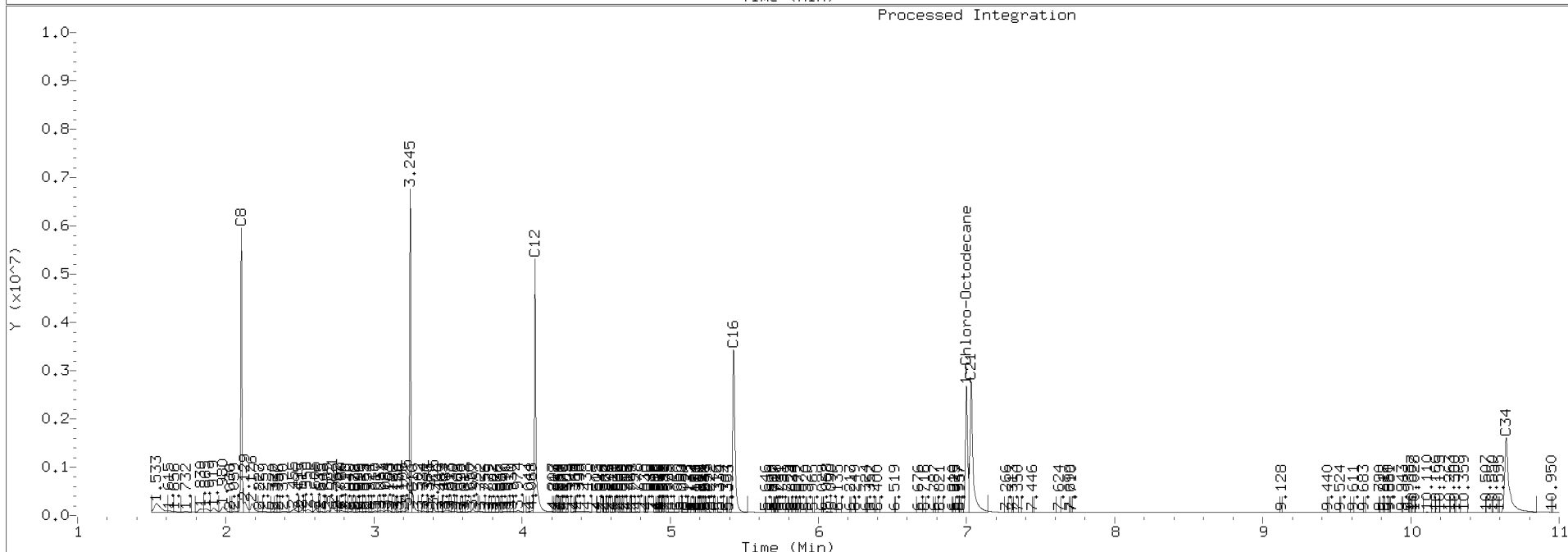
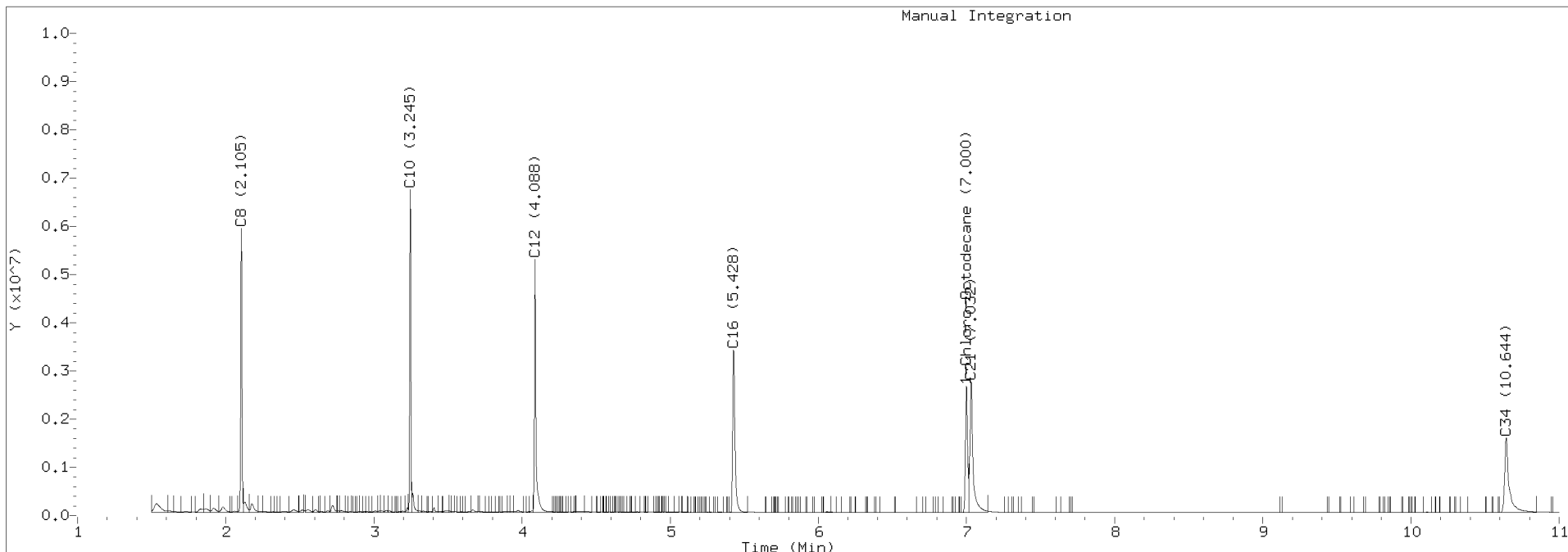
Lab File Name: 820J0115.D

Quant Range	Area*	Conc
C8-C10 Aliph.	7055161	36.7
C10-C12 Aliph.	3904943	19.0
C12-C16 Aliph.	3748415	18.5
C16-C21 Aliph.	4047810	20.8
C21-C34 Aliph.	3332321	18.6
Surrogate	2646266	15.7

* From Range Reference Peak(s)

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201001aliph.b/820J0115.D Injection: 02-OCT-2020 00:13
 Lab ID:20ALIPH



Data File: \\target\share\chem2\fid8.1\20201001a1iph,b\82030116.D

Date: 02-OCT-2020 00:39

Client ID:

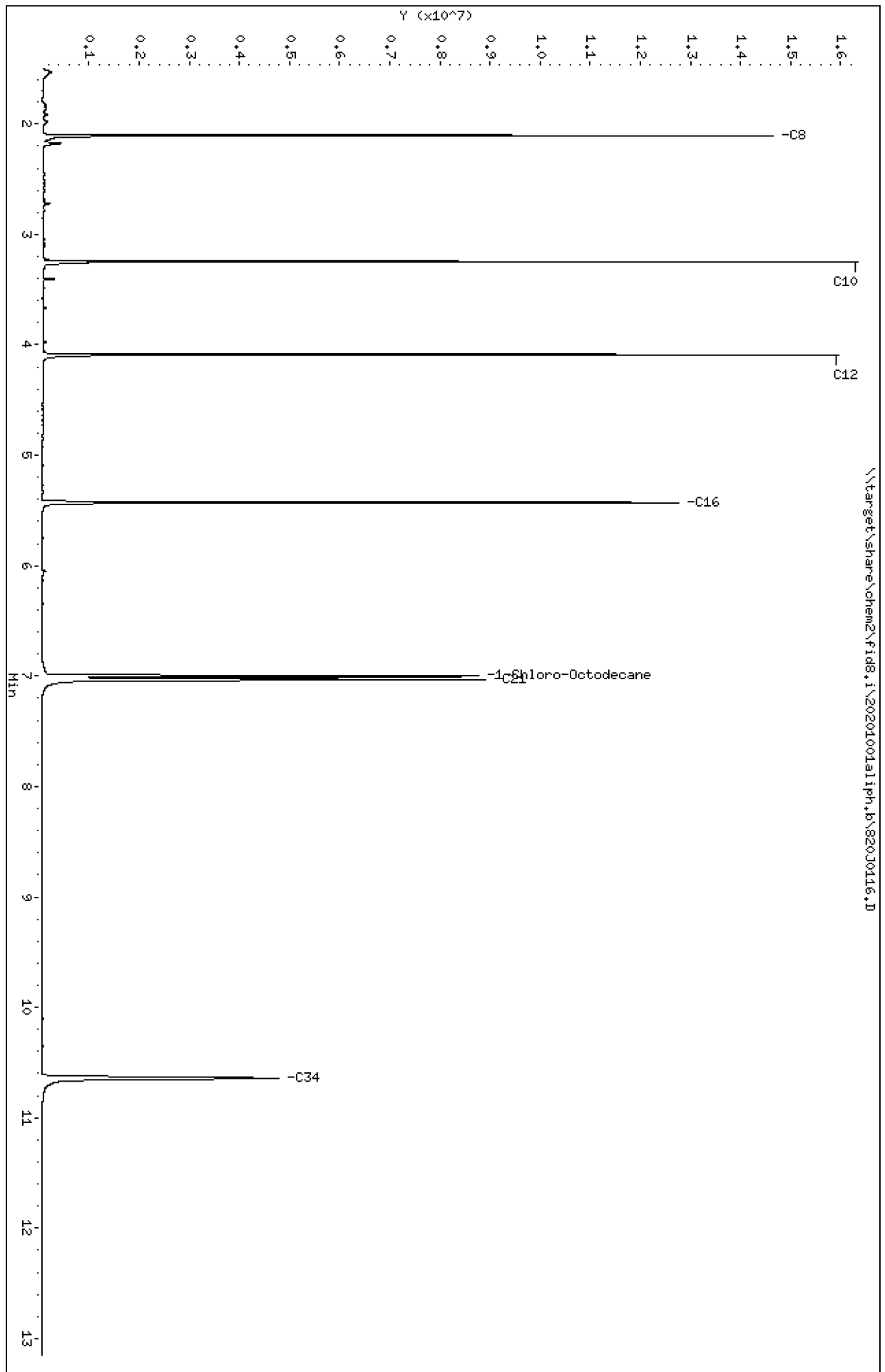
Sample Info: 504LPIH

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 50ALPIH

Ical Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 00:39

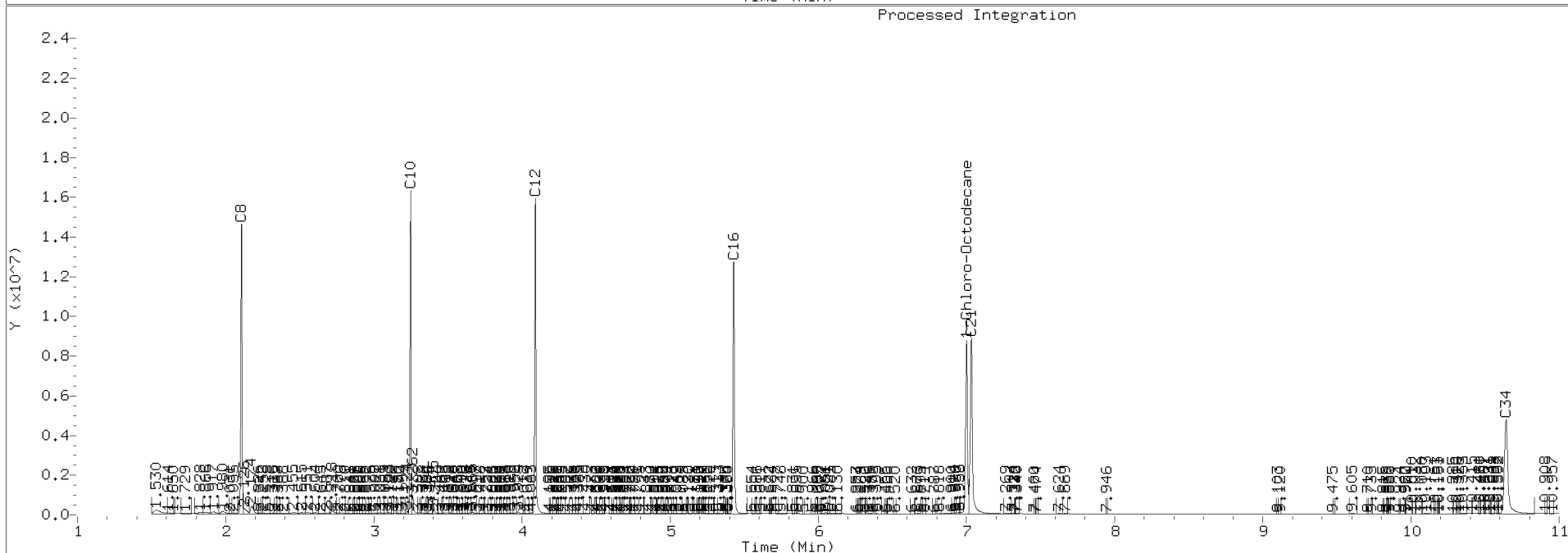
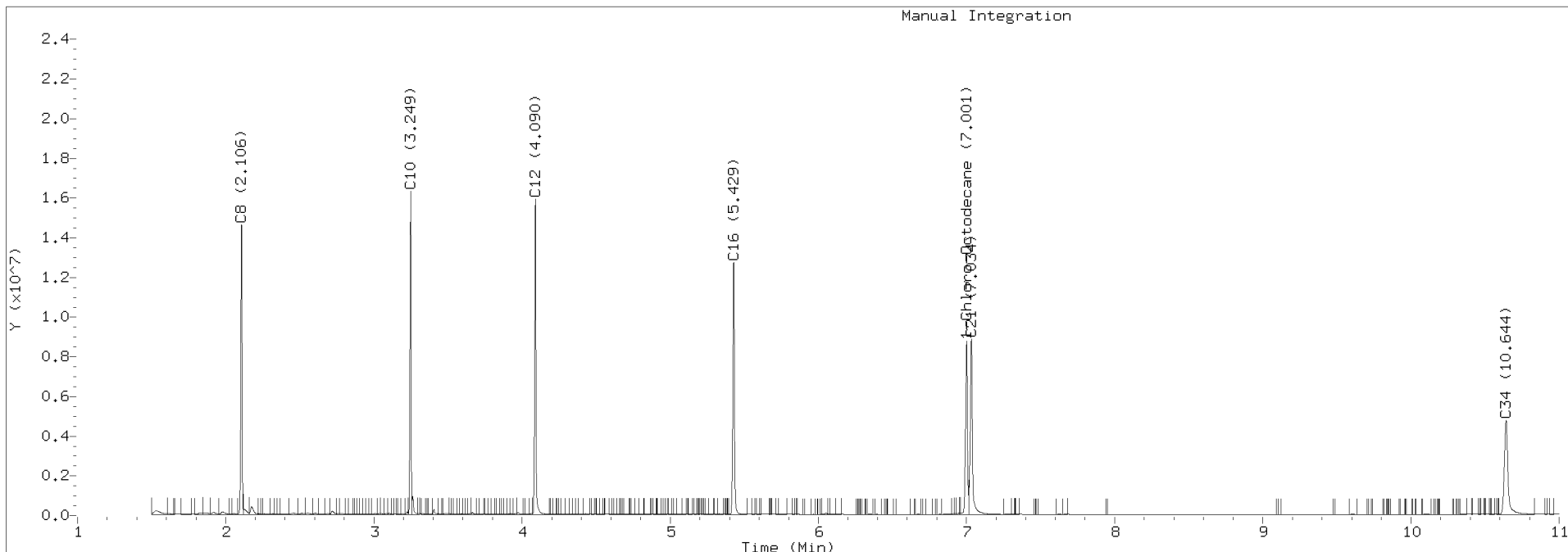
Lab File Name: 820J0116.D

Quant Range	Area*	Conc
C8-C10 Aliph.	17627010	91.6
C10-C12 Aliph.	9545076	46.5
C12-C16 Aliph.	9382326	46.3
C16-C21 Aliph.	9416813	48.3
C21-C34 Aliph.	8354165	46.7
Surrogate	7669940	45.6

* From Range Reference Peak(s)

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201001aliph.b/820J0116.D Injection: 02-OCT-2020 00:39
Lab ID:50ALPIH



Data File: \\target\share\chem2\fid8.1\20201001a1iph,b\82030117.D

Date : 02-OCT-2020 01:04

Client ID:

Sample Info: 1000ALIPH

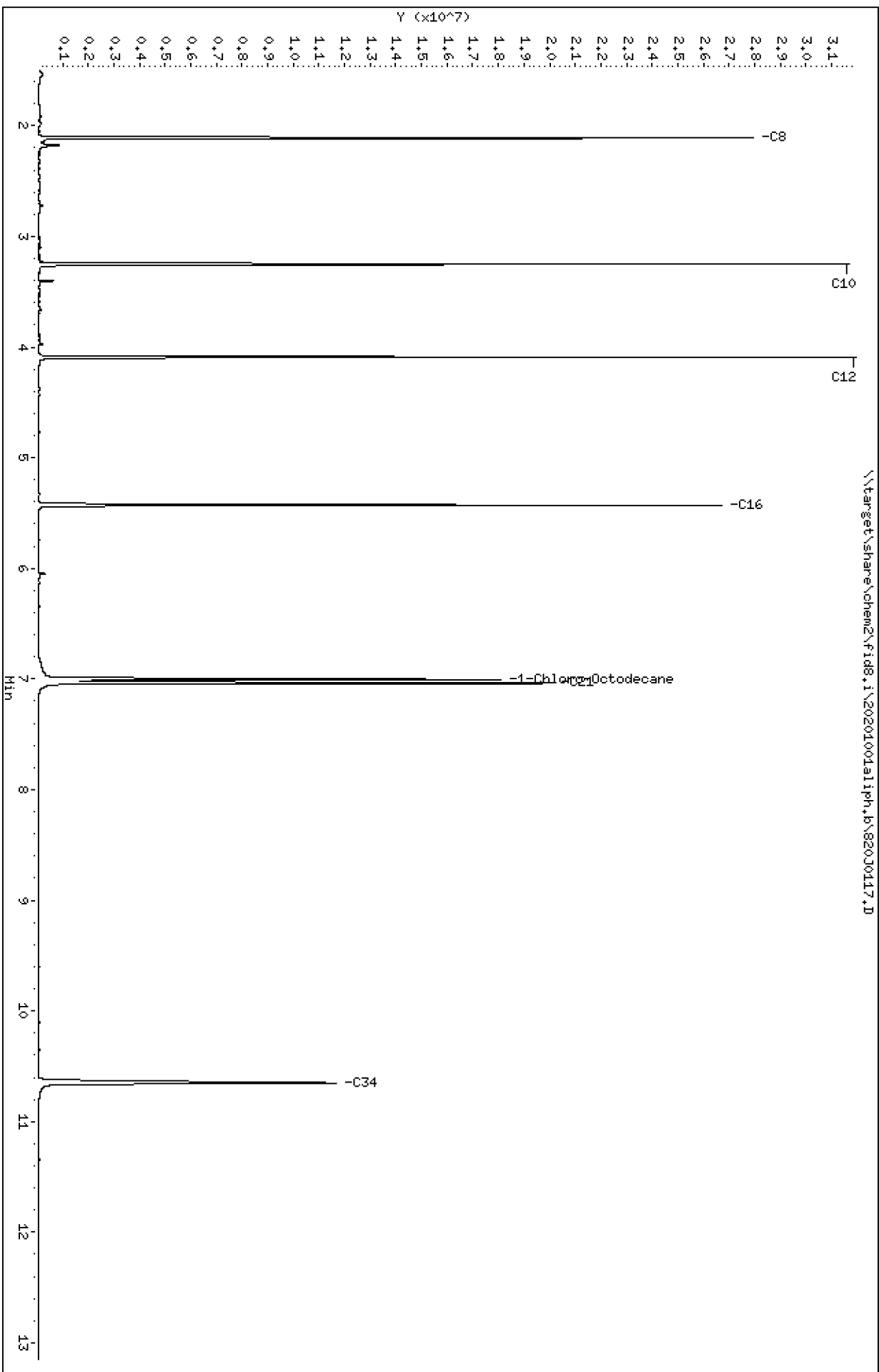
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 100ALIPH

ICal Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 01:04

Lab File Name: 820J0117.D

Quant Range	Area*	Conc
C8-C10 Aliph.	38899569	202.0
C10-C12 Aliph.	20696656	100.8
C12-C16 Aliph.	20643972	102.0
C16-C21 Aliph.	19424591	99.6
C21-C34 Aliph.	18220942	101.8
Surrogate	17496683	104.1

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001a1iph,b\82030118.D

Date : 02-OCT-2020 01:29

Client ID:

Sample Info: 1256ALIPH

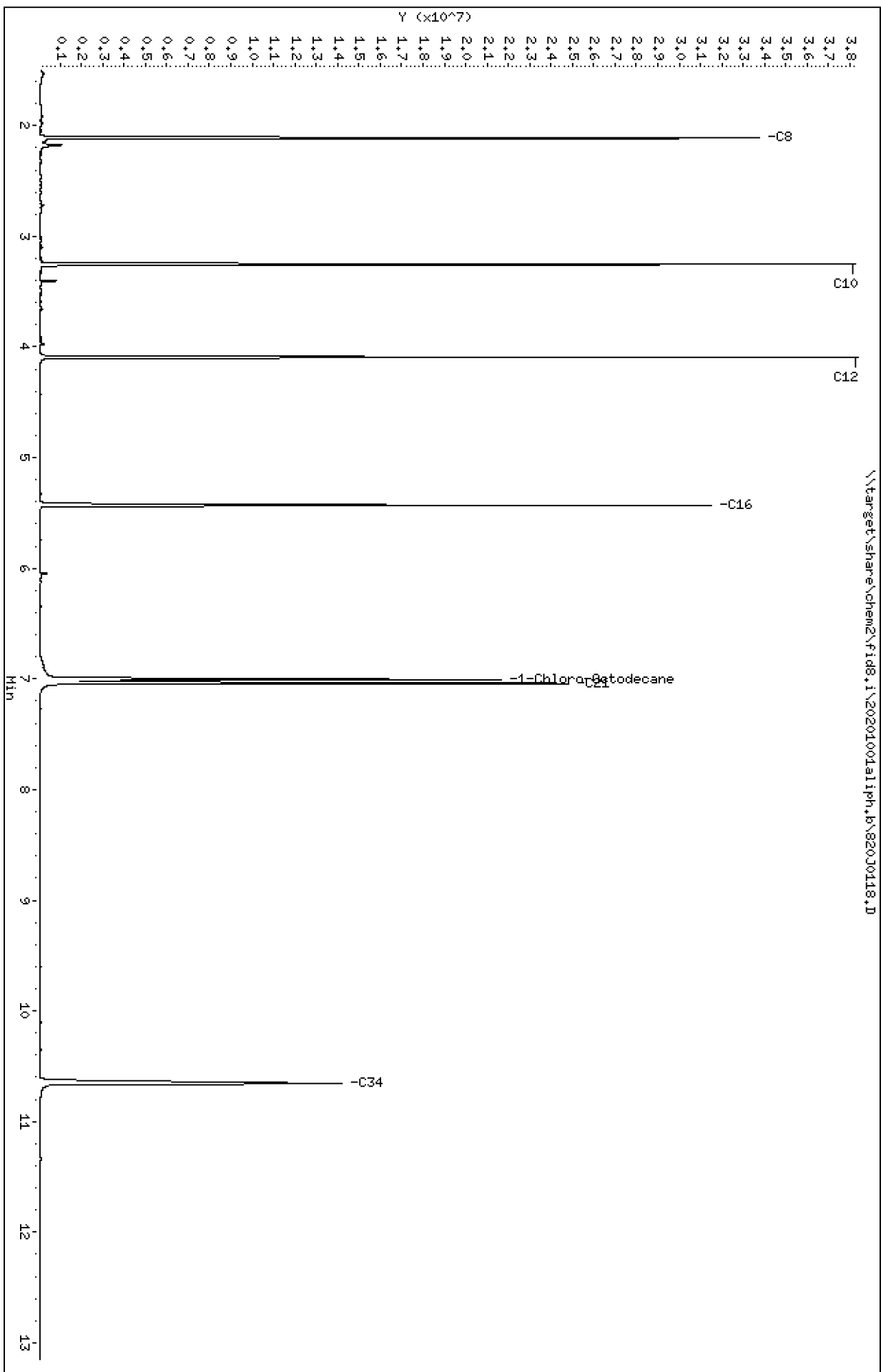
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 125ALIPH

ICal Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 01:29

Lab File Name: 820J0118.D

Quant Range	Area*	Conc
C8-C10 Aliph.	49525474	257.2
C10-C12 Aliph.	25516440	124.3
C12-C16 Aliph.	25101340	124.0
C16-C21 Aliph.	23780069	121.9
C21-C34 Aliph.	22633357	126.4
Surrogate	21668625	129.0

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001a1iph.b\82030119.D

Date: 02-OCT-2020 01:54

Client ID:

Sample Info: 150ALIPH

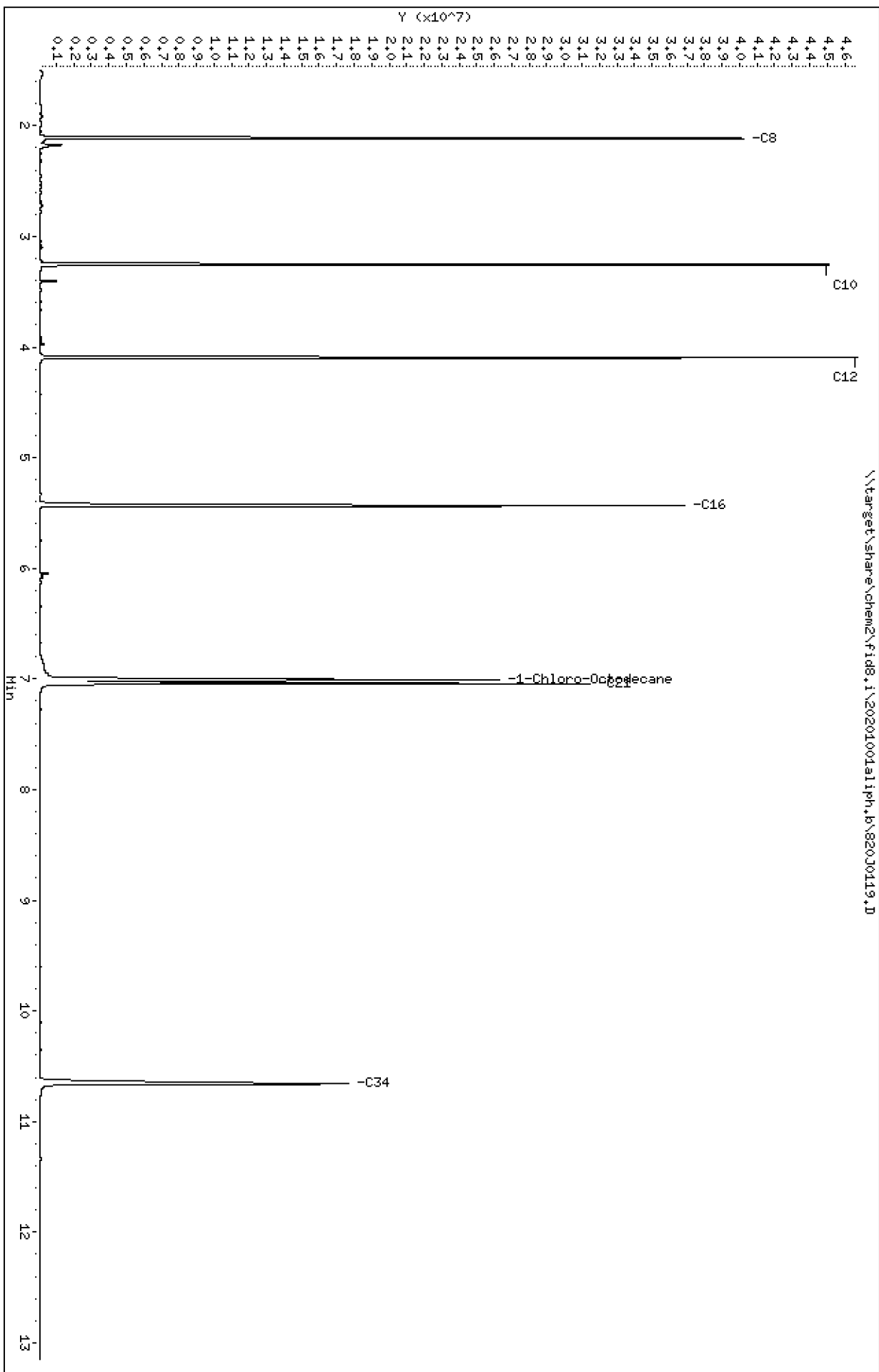
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 150ALIPH

Ical Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 01:54

Lab File Name: 820J0119.D

Quant Range	Area*	Conc
C8-C10 Aliph.	61999370	321.9
C10-C12 Aliph.	32654331	159.1
C12-C16 Aliph.	32508557	160.6
C16-C21 Aliph.	30045631	154.0
C21-C34 Aliph.	27941927	156.1
Surrogate	27816978	165.6

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001a1iph,b\82030120.D
Date : 02-OCT-2020 02:19

Client ID:

Sample Info: 2009ALIPH

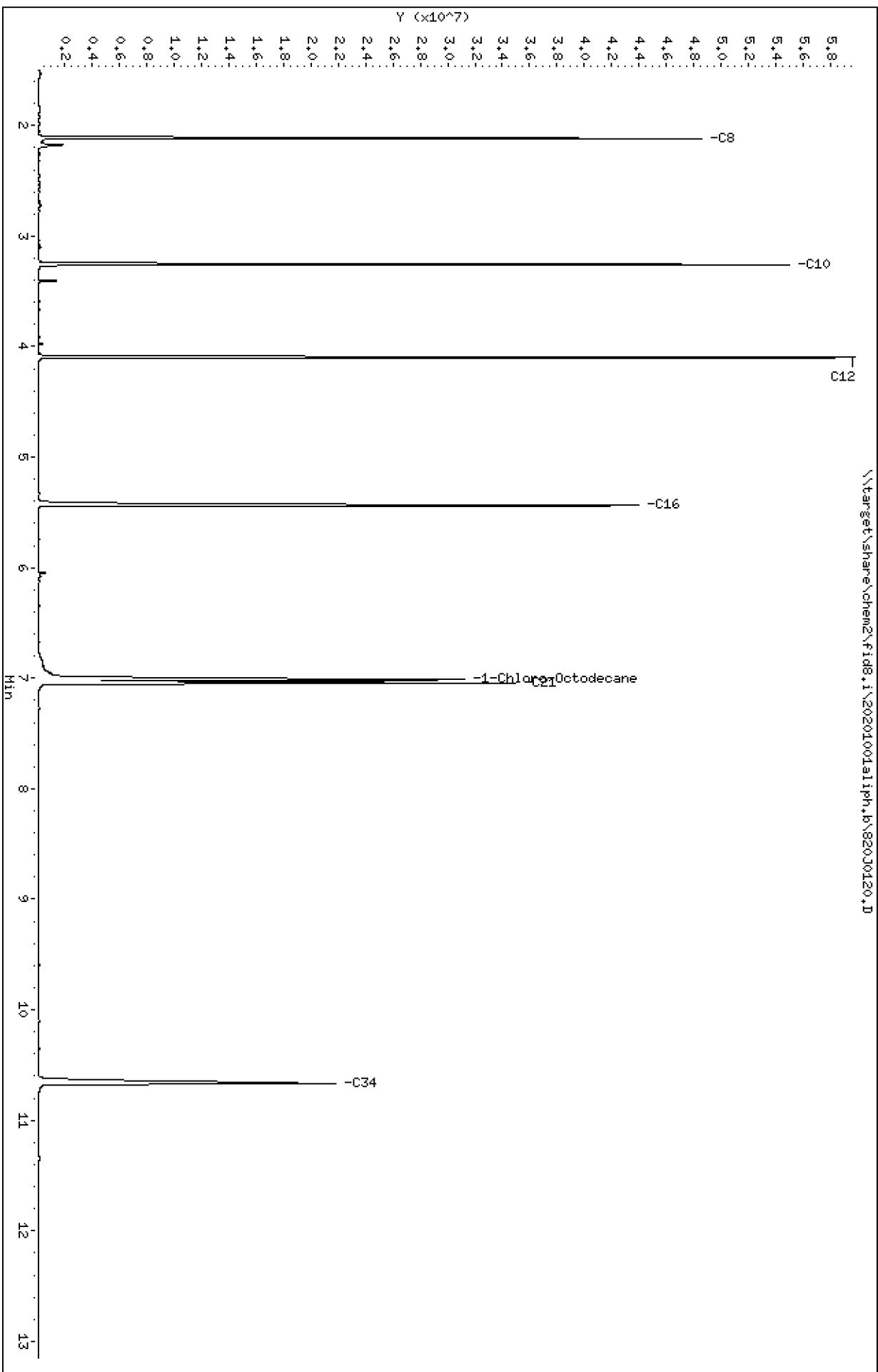
Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25

Page 1



EPH ALIPHATIC CALIBRATION REPORT

Lab Name: ANALYTICAL RESOURCES, INC.

Lab ID: 200ALIPH

Ical Date: 02-OCT-2020

Instrument: FID8.I

Analysis Time: 02:19

Lab File Name: 820J0120.D

Quant Range	Area*	Conc
C8-C10 Aliph.	81286980	422.0
C10-C12 Aliph.	43375398	211.3
C12-C16 Aliph.	43135136	213.1
C16-C21 Aliph.	38959755	199.7
C21-C34 Aliph.	38178185	213.3
Surrogate	37729526	224.6

* From Range Reference Peak(s)

Data File: \\target\share\chem2\fid8.1\20201001a1iph,b\82030121.D

Page 1

Date : 02-OCT-2020 02:45

Client ID:

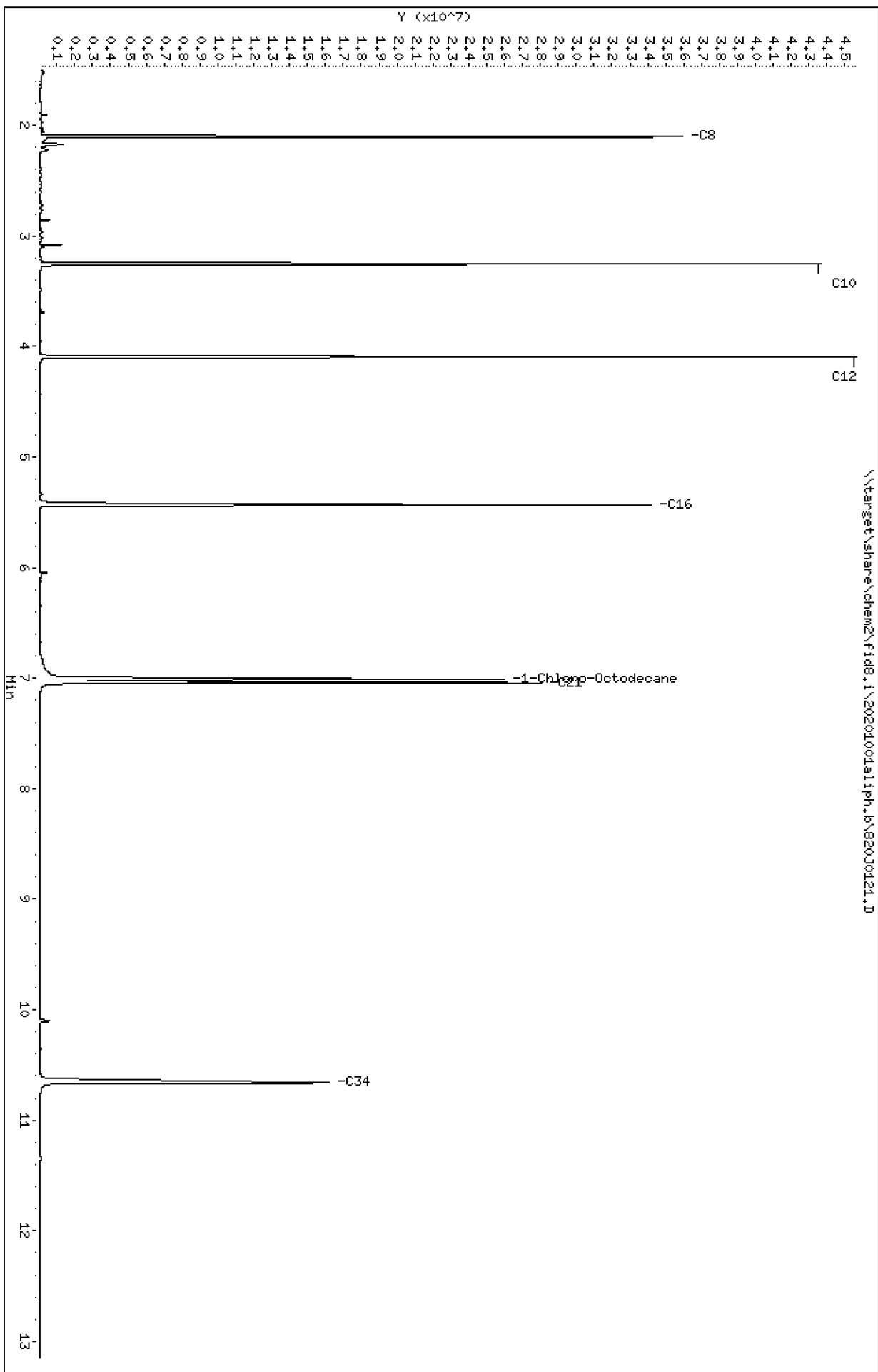
Instrument: fid8.1

Sample Info: ALIPHSC2

Operator: JGR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201001aliph.b/820J0121.D
Method: 20201001aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: ALIPHSC2
Client ID:
Injection: 02-OCT-2020 02:45
Matrix: NONE
Dilution Factor: 1

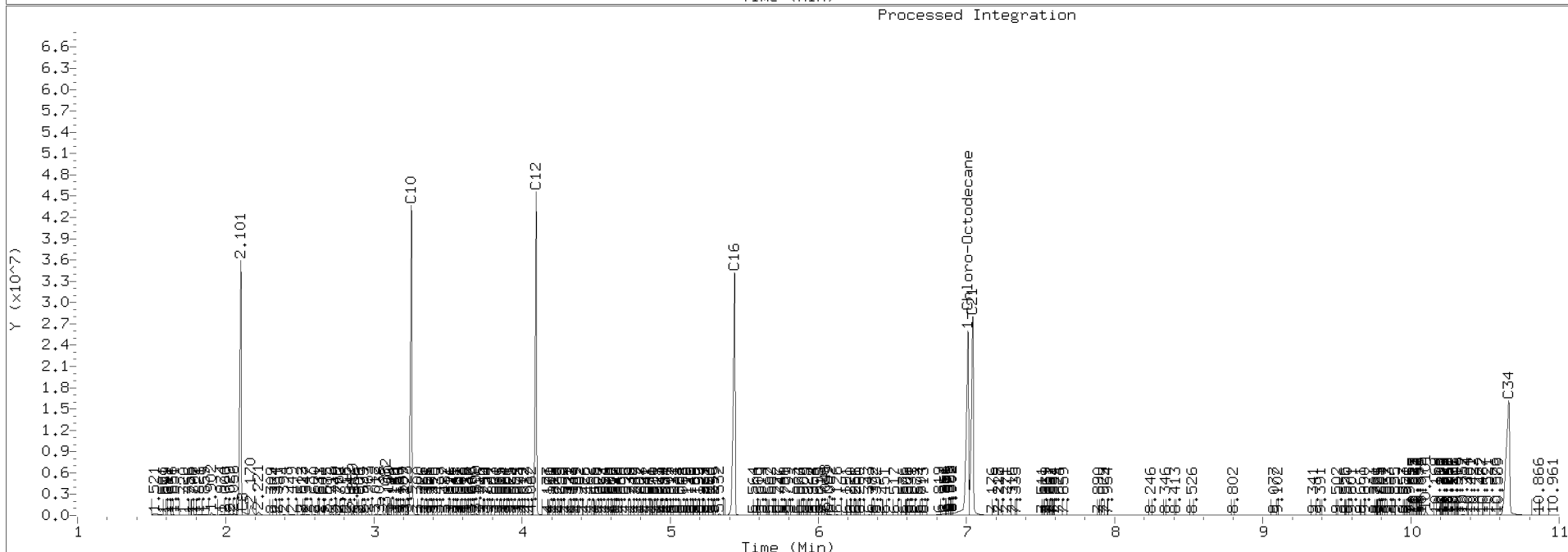
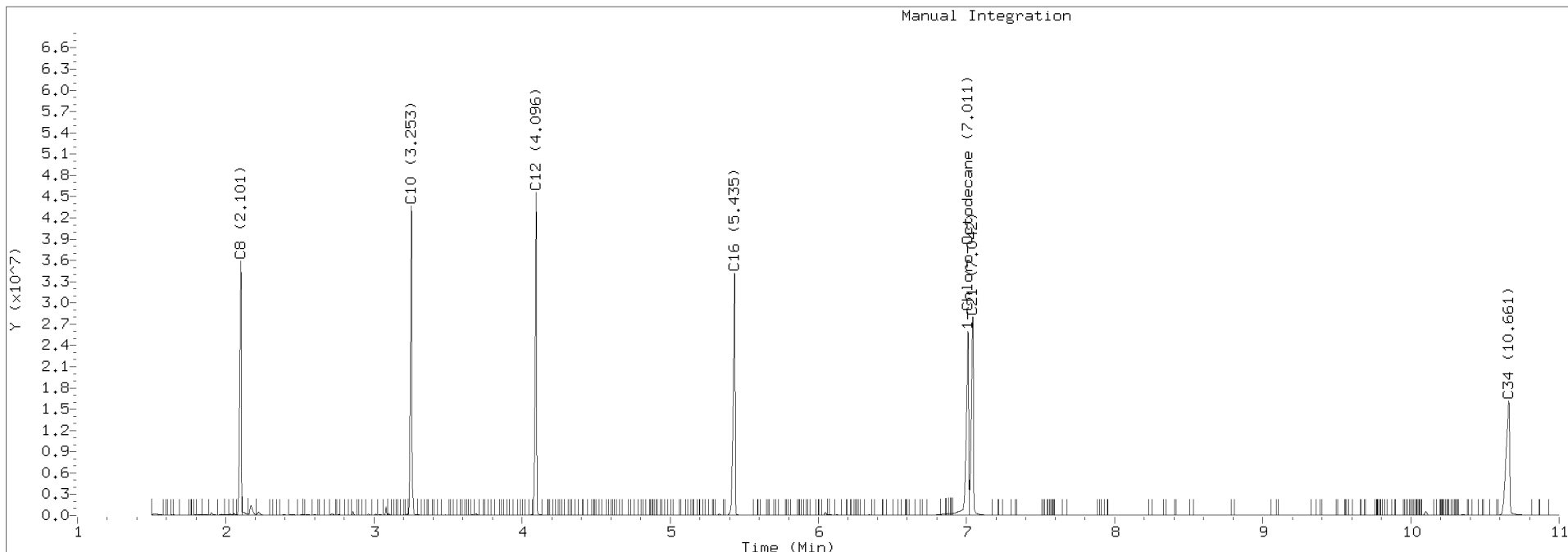
EPH-ALIPHATIC RESULTS

Quant	Range	Area	Conc	Time Range
C8-C10	Aliph.	61966510	321.9	(2.018 - 3.359)
C10-C12	Aliph.	31342373	152.7	(3.359 - 4.199)
C12-C16	Aliph.	31575101	156.0	(4.199 - 5.538)
C16-C21	Aliph.	29727101	152.4	(5.538 - 7.147)
C21-C34	Aliph.	28321380	158.2	(7.147 - 10.769)
Surrogate Rec: 116.1%		174.2 ug/mL		

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201001aliph.b/820J0121.D Injection: 02-OCT-2020 02:45

Lab ID:ALIPHSC2





Analytical Resources, Incorporated
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Calibration: DJ00015

Laboratory ID: SIJ0055-SCV2

Sequence: SIJ0055

Sequence Name: ALIPH SCV

Standard ID: I005686

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
C10-C12 Aliphatics	125.00	153	22.2	30.00
1-Chloro-octadecane	125.00	174	39.4 *	30.00

* Indicates values outside of QC limits

Data File: \\target\share\chem2\fid8.1\20201001a1iph.b\82030121.D

Page 1

Date : 02-OCT-2020 02:45

Client ID:

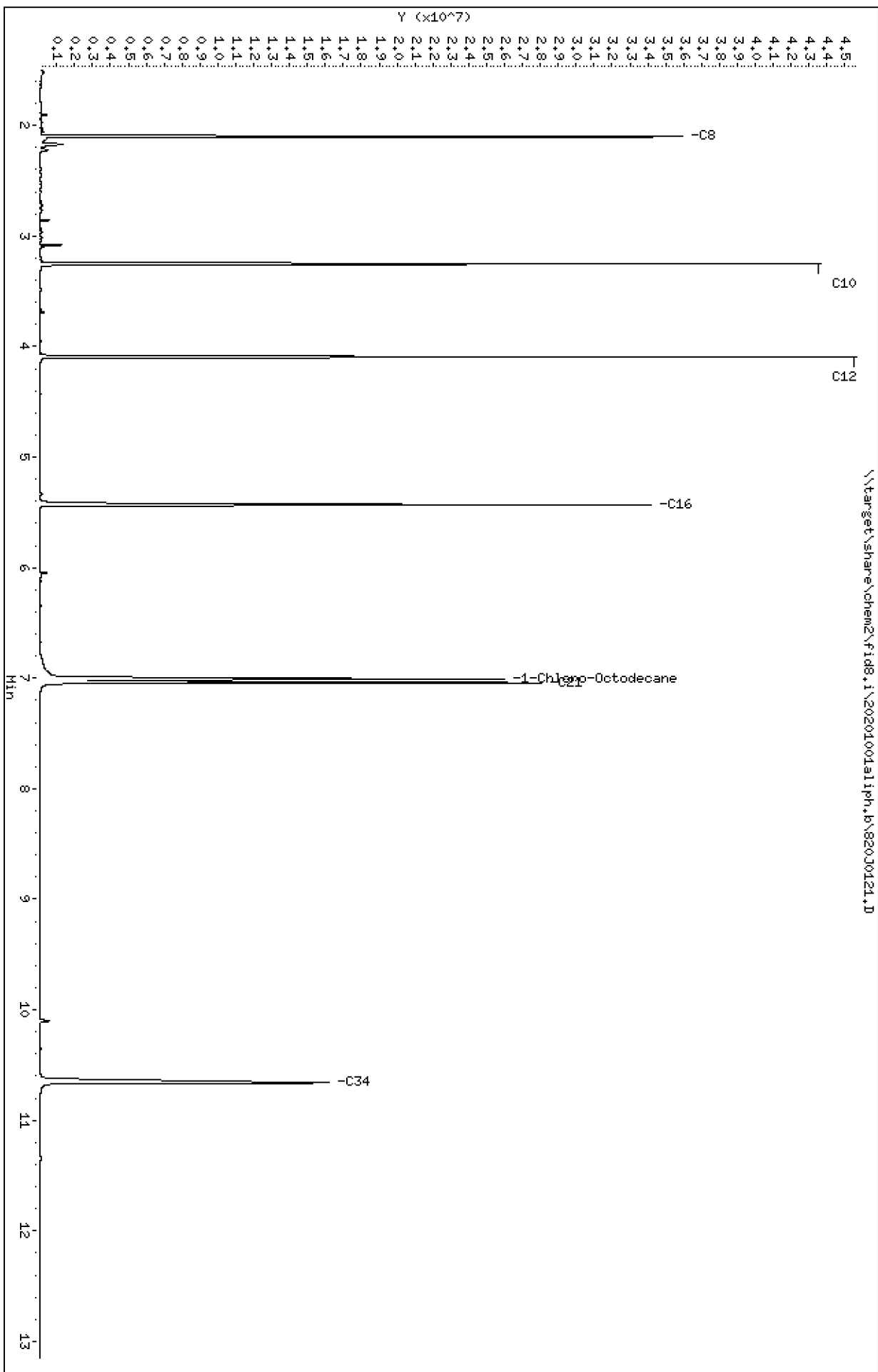
Instrument: fid8.1

Sample Info: ALIPHSC2

Operator: JGR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201001aliph.b/820J0121.D
Method: 20201001aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: ALIPHSC2
Client ID:
Injection: 02-OCT-2020 02:45
Matrix: NONE
Dilution Factor: 1

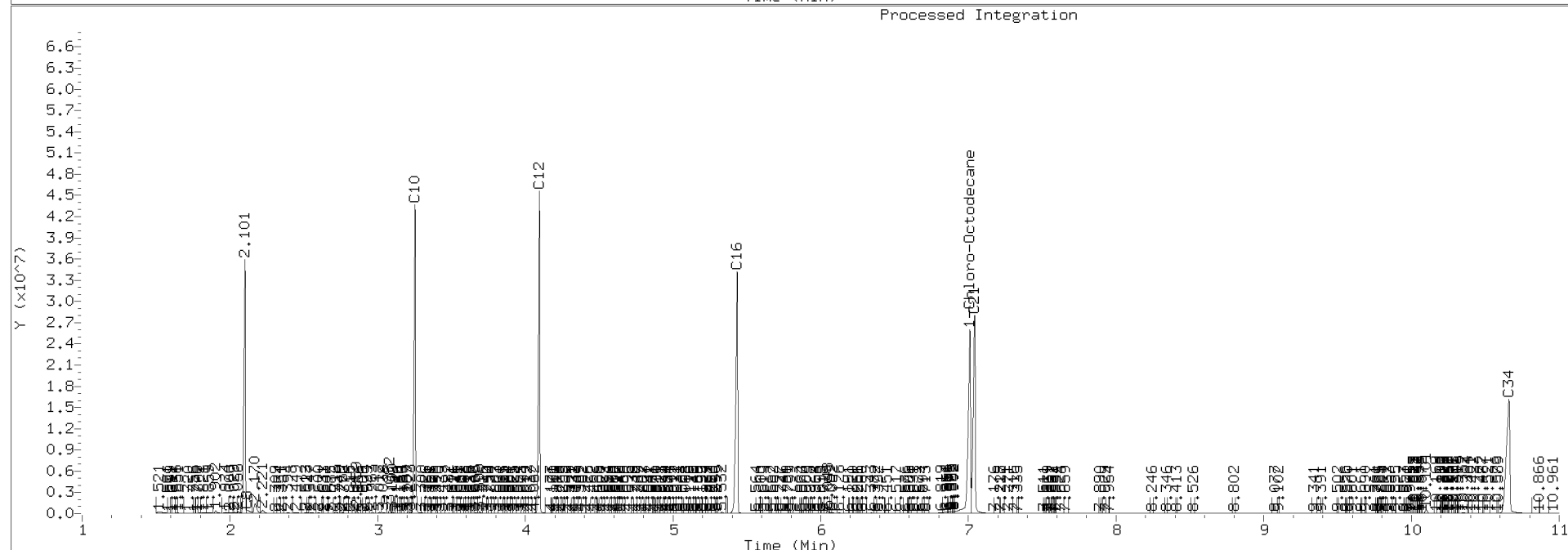
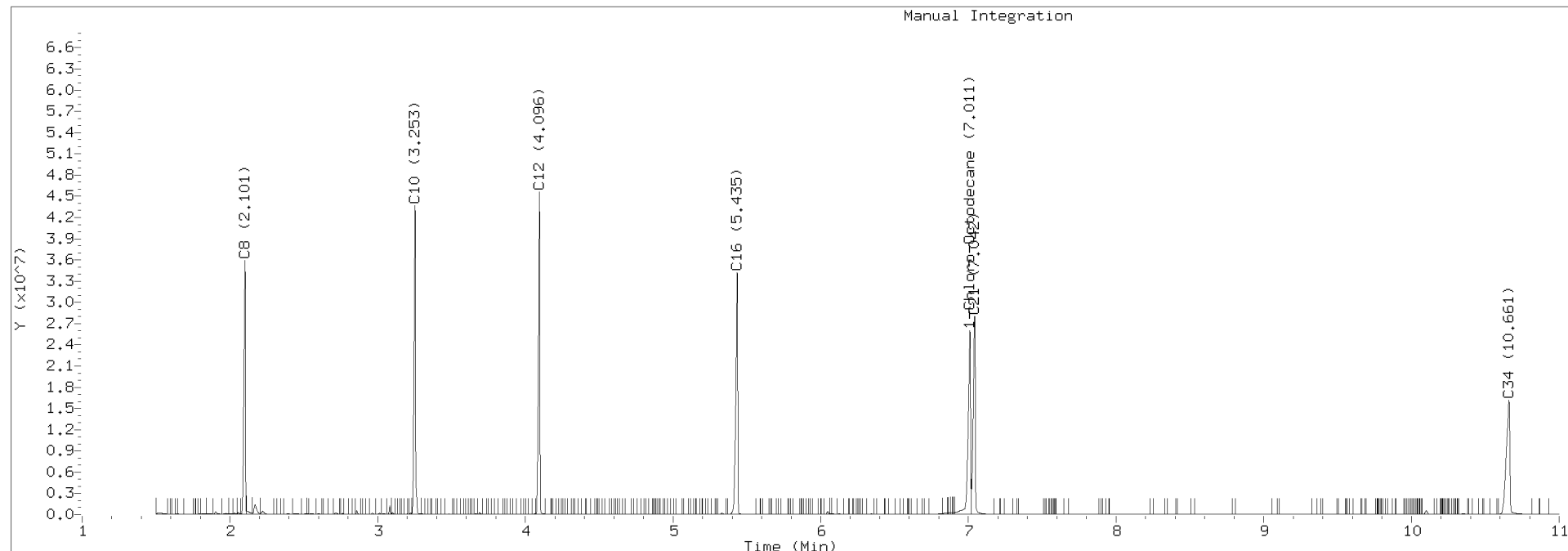
EPH-ALIPHATIC RESULTS

Quant Range	Area	Conc	Time Range
C8-C10 Aliph.	61966510	321.9	(2.018 - 3.359)
C10-C12 Aliph.	31342373	152.7	(3.359 - 4.199)
C12-C16 Aliph.	31575101	156.0	(4.199 - 5.538)
C16-C21 Aliph.	29727101	152.4	(5.538 - 7.147)
C21-C34 Aliph.	28321380	158.2	(7.147 - 10.769)
Surrogate Rec: 116.1% 174.2 ug/mL			

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201001aliph.b/820J0121.D Injection: 02-OCT-2020 02:45

Lab ID:ALIPHSC2





INITIAL CALIBRATION CHECK

WA EPH

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>20J0385</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>GascoSiltronic</u>
Instrument ID:	<u>FID8</u>	Calibration:	<u>DJ00015</u>
Lab File ID:	<u>820K2003.D</u>	Calibration Date:	<u>10/01/2020</u>
Sequence:	<u>SIK0322</u>	Injection Date:	<u>11/20/20</u>
Lab Sample ID:	<u>SIK0322-ICV1</u>	Injection Time:	<u>08:22</u>
Sequence Name:	<u>ALIPHATICS</u>		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
C10-C12 Aliphatics	A	125.00	123	205303.2000	201993.5000		-1.6	+/-20
1-Chloro-octadecane	A	125.00	122	168020.3000	163480.1000		-2.7	+/-20

* Values outside of QC limits

Data File: \\target\share\chem2\fid8.1\20201120a11ph.b\820K2003.D

Date: 20-NOV-2020 08:22

Client ID:

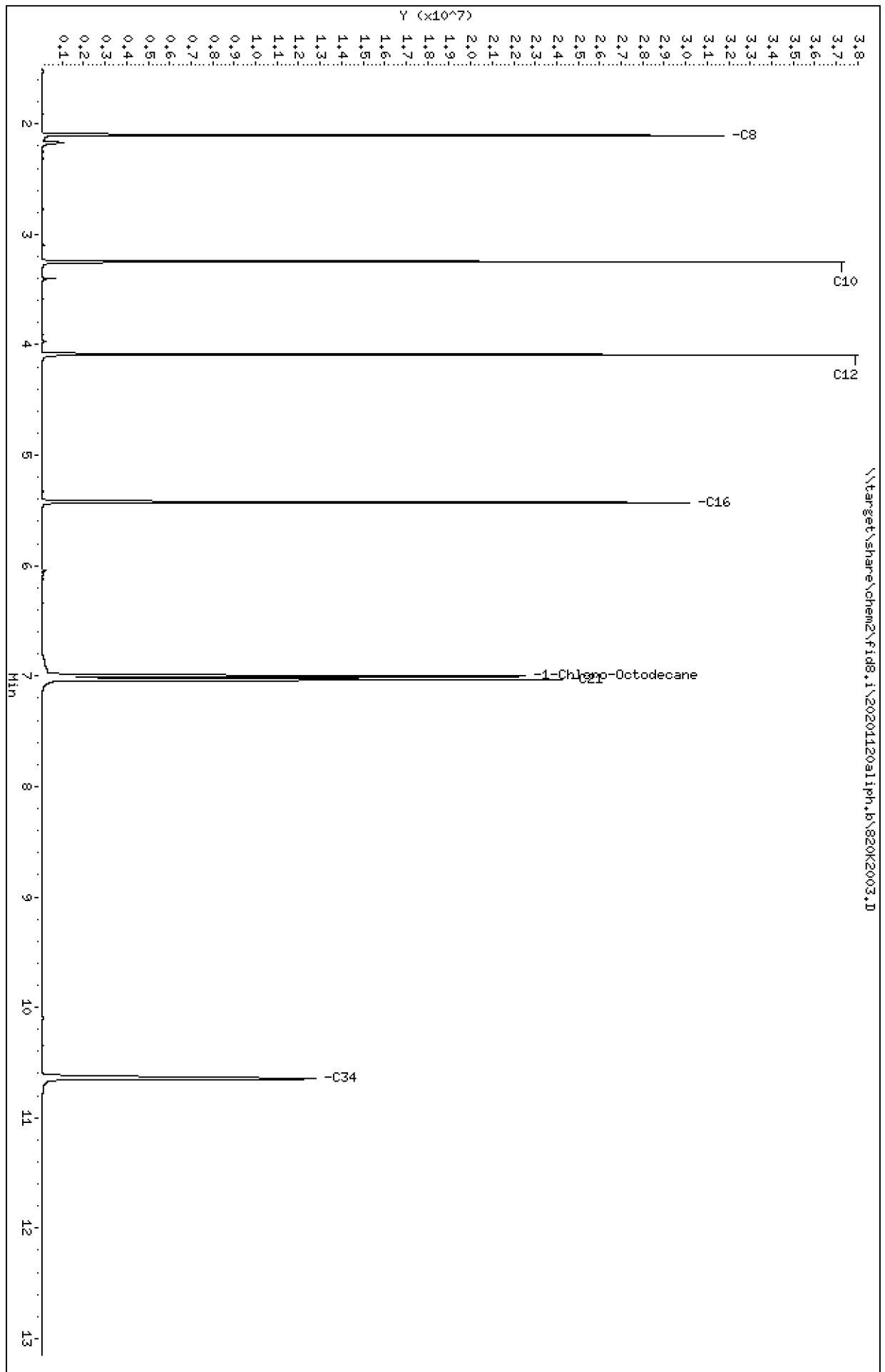
Sample Info: ALIPHICW1

Column phase: RTX-1

Instrument: fid8.1

Operator: JGR

Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2003.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: ALIPHICV1
Client ID:
Injection: 20-NOV-2020 08:22
Matrix: NONE
Dilution Factor: 1

EPH-ALIPHATIC RESULTS

Quant	Range	Area	Conc	Time Range
C8-C10	Aliph.	48443915	251.6	(2.018 - 3.359)
C10-C12	Aliph.	25249194	123.0	(3.359 - 4.199)
C12-C16	Aliph.	24633740	121.7	(4.199 - 5.538)
C16-C21	Aliph.	25498638	130.7	(5.538 - 7.147)
C21-C34	Aliph.	22033556	123.1	(7.147 - 10.769)
Surrogate Rec:		81.1%	121.6 ug/mL	



CONTINUING CALIBRATION CHECK WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Instrument ID: FID8

Calibration: DJ00015

Lab File ID: 820K2008.D

Calibration Date: 10/01/2020

Sequence: SIK0322

Injection Date: 11/20/20

Lab Sample ID: SIK0322-CCV1

Injection Time: 10:26

Sequence Name: ALIPHATICS

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR (RF)			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
C10-C12 Aliphatics	A	125.00	121	205303.2	198777.8		-3.2	+/-20
1-Chloro-octadecane	A	125.00	121	168020.3	162296.6		-3.4	+/-20

* Values outside of QC limits

Data File: \\target\share\chem2\fid8.1\20201120a11ph.b\820K2008.D

Page 1

Date : 20-NOV-2020 10:26

Client ID:

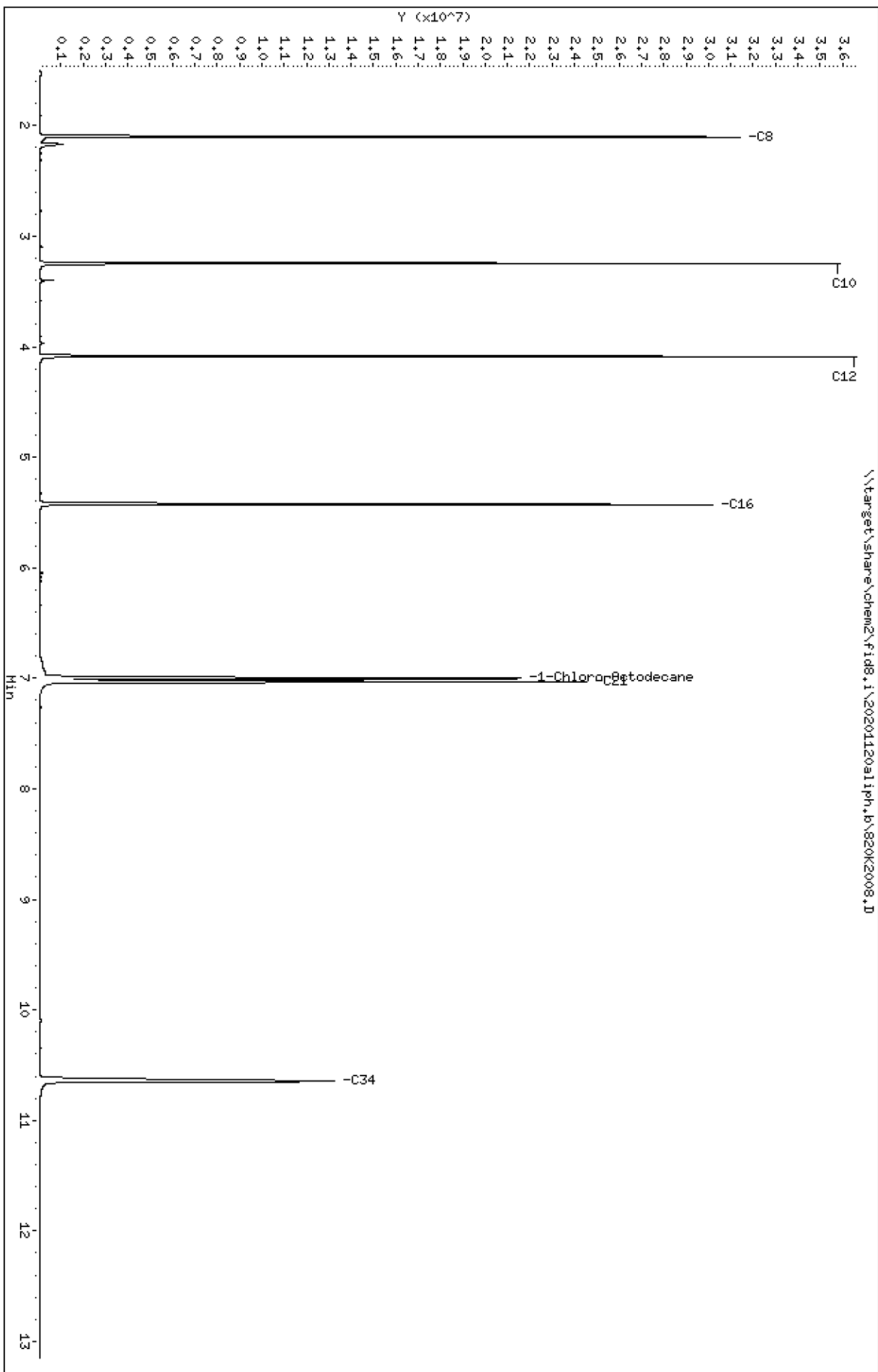
Instrument: fid8.1

Sample Info: ALIPHCCV1

Operator: JGR

Column phase: RTX-1

Column diameter: 0.25



Analytical Resources Inc.
WA. EPH Aliphatics Report

Data file: 20201120aliph.b/820K2008.D
Method: 20201120aliph.b\EPHALiph.m
Instrument: fid8.i
Operator: JGR
Macro: ALIPH020217FID8

ARI ID: ALIPHCCV1
Client ID:
Injection: 20-NOV-2020 10:26
Matrix: NONE
Dilution Factor: 1

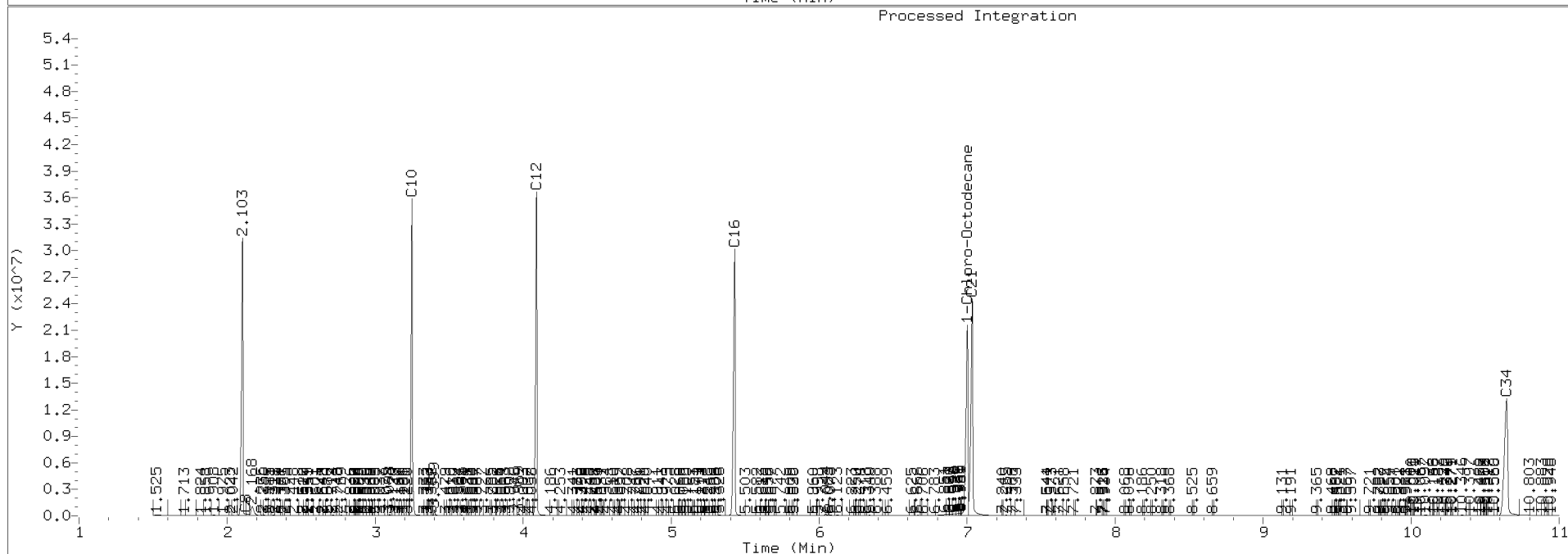
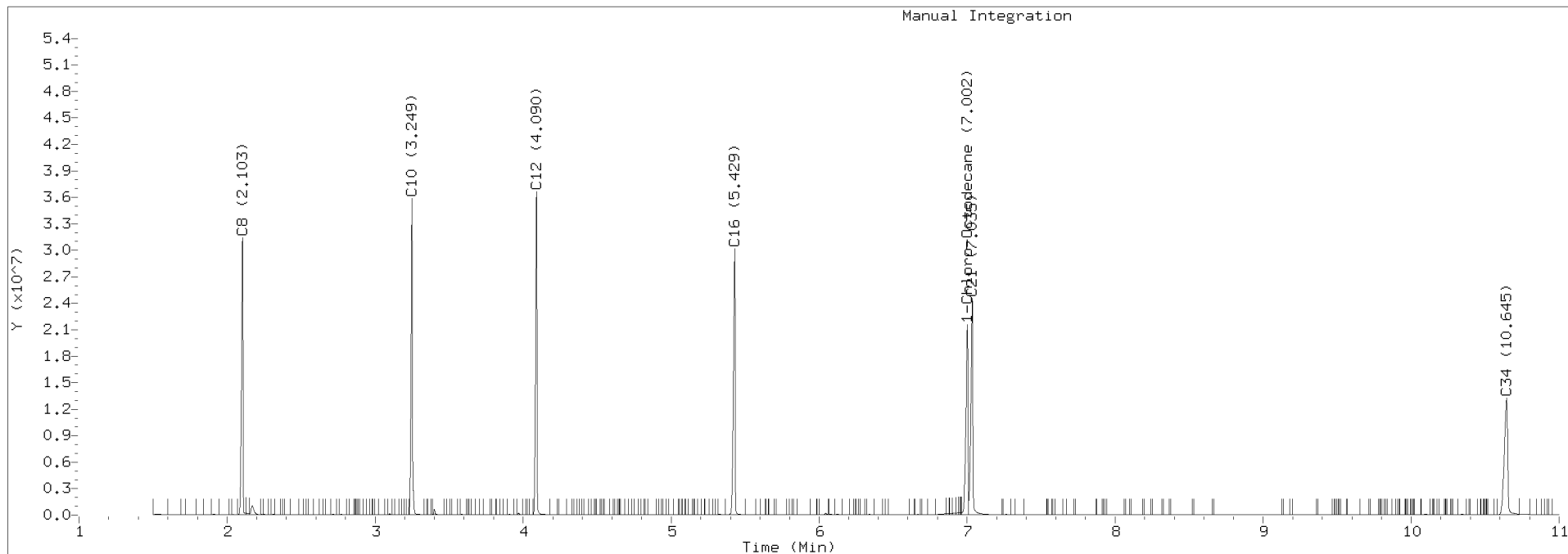
EPH-ALIPHATIC RESULTS

Quant	Range	Area	Conc	Time Range
C8-C10	Aliph.	47814317	248.4	(2.018 - 3.359)
C10-C12	Aliph.	24847224	121.0	(3.359 - 4.199)
C12-C16	Aliph.	24167792	119.4	(4.199 - 5.538)
C16-C21	Aliph.	24981640	128.1	(5.538 - 7.147)
C21-C34	Aliph.	21728784	121.4	(7.147 - 10.769)
Surrogate Rec: 80.5% 120.7 ug/mL				

EPH Aliphatics Manual Integrations Report

Datafile: FID8, 20201120aliph.b/820K2008.D Injection: 20-NOV-2020 10:26

Lab ID:ALIPHCCV1





ANALYSIS BATCH (SEQUENCE) SUMMARY

WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0055

Instrument: FID8

Calibration: DJ00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ALIPH 20PPM	SIJ0055-CAL7	820J0115.D	NA	10/02/20 00:13
ALIPH 50PPM	SIJ0055-CAL8	820J0116.D	NA	10/02/20 00:39
ALIPH 100PPM	SIJ0055-CAL9	820J0117.D	NA	10/02/20 01:04
ALIPH 125PPM	SIJ0055-CALA	820J0118.D	NA	10/02/20 01:29
ALIPH 150PPM	SIJ0055-CALB	820J0119.D	NA	10/02/20 01:54
ALIPH 200PPM	SIJ0055-CALC	820J0120.D	NA	10/02/20 02:19
ALIPH SCV	SIJ0055-SCV2	820J0121.D	NA	10/02/20 02:45



ANALYSIS SEQUENCE

SIJ0055

Instrument: FID8
Calibration ID: DJ00015

Element Column ID: d002555

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIJ0055-CAL1	AROM 20PPM	QC		1	I009169		
SIJ0055-CAL2	AROM 50PPM	QC		2	I009168		
SIJ0055-CAL3	AROM 100PPM	QC		3	I009167		
SIJ0055-CAL4	AROM 125PPM	QC		4	I009166		
SIJ0055-CAL5	AROM 150PPM	QC		5	I009165		
SIJ0055-CAL6	AROM 200PPM	QC		6	I009164		
SIJ0055-SCV1	AROM SCV	QC		7	I005685		
SIJ0055-CAL7	ALIPH 20PPM	QC		8	I009163		
SIJ0055-CAL8	ALIPH 50PPM	QC		9	I009160		
SIJ0055-CAL9	ALIPH 100PPM	QC		10	I009157		
SIJ0055-CALA	ALIPH 125PPM	QC		11	I009154		
SIJ0055-CALB	ALIPH 150PPM	QC		12	I009151		
SIJ0055-CALC	ALIPH 200PPM	QC		13	I009150		
SIJ0055-SCV2	ALIPH SCV	QC		14	I005686		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	01-OCT-2020	20:50	820J0107.D	1	ALIB	
2	02-OCT-2020	00:13	820J0115.D	1	20ALIPH	
3	02-OCT-2020	00:39	820J0116.D	1	50ALPIH	
4	02-OCT-2020	01:04	820J0117.D	1	100ALIPH	
5	02-OCT-2020	01:29	820J0118.D	1	125ALIPH	
6	02-OCT-2020	01:54	820J0119.D	1	150ALIPH	
7	02-OCT-2020	02:19	820J0120.D	1	200ALIPH	
8	02-OCT-2020	02:45	820J0121.D	1	ALIPHSC2	
9	02-OCT-2020	12:28	820J0144.D	1	ALIPHICV2	
10	02-OCT-2020	12:54	820J0145.D	1	BII0795-BLK1	
11	02-OCT-2020	13:20	820J0146.D	1	BII0795-BS1	
12	02-OCT-2020	13:46	820J0147.D	1	20I0109-02	
13	02-OCT-2020	14:12	820J0148.D	1	20I0109-03	
14	02-OCT-2020	14:38	820J0149.D	1	20I0109-05	
15	02-OCT-2020	15:04	820J0150.D	1	20I0109-07	
16	02-OCT-2020	15:29	820J0151.D	1	20I0109-08	
17	02-OCT-2020	15:55	820J0152.D	1	20I0109-09	
18	02-OCT-2020	16:21	820J0153.D	1	20I0109-10	
19	02-OCT-2020	16:46	820J0154.D	1	BII0795-MS1	
20	02-OCT-2020	17:12	820J0155.D	1	BII0795-MSD1	
21	02-OCT-2020	17:38	820J0156.D	1	ALIPHCCV3	
22	02-OCT-2020	18:03	820J0157.D	1	20I0109-11	
23	02-OCT-2020	18:29	820J0158.D	1	20I0149-01	
24	02-OCT-2020	18:54	820J0159.D	1	20I0149-02	
25	02-OCT-2020	19:20	820J0160.D	1	20I0149-05	
26	02-OCT-2020	19:45	820J0161.D	1	20I0149-07	
27	02-OCT-2020	20:10	820J0162.D	1	20I0149-08	
28	02-OCT-2020	20:36	820J0163.D	1	20I0149-09	
29	02-OCT-2020	21:01	820J0164.D	1	20I0149-10	
30	02-OCT-2020	21:27	820J0165.D	1	ALIPHCCV4	
31	02-OCT-2020	22:17	820J0167.D	1	BII0478-BLK1	
32	02-OCT-2020	22:42	820J0168.D	1	BII0478-BS1	
33	02-OCT-2020	23:08	820J0169.D	1	BII0478-BSD1	
34	02-OCT-2020	23:33	820J0170.D	1	20I0212-03	
35	02-OCT-2020	23:58	820J0171.D	1	BII0481-BLK1	
36	03-OCT-2020	00:23	820J0172.D	1	BII0481-BS1	
37	03-OCT-2020	00:49	820J0173.D	1	BII0481-BSD1	
38	03-OCT-2020	01:14	820J0174.D	1	20I0212-06	
39	03-OCT-2020	01:39	820J0175.D	1	20I0212-24	
40	03-OCT-2020	05:52	820J0185.D	1	ALIPHCCV6	
41	03-OCT-2020	06:42	820J0187.D	1	BII0585-BLK1	
42	03-OCT-2020	07:07	820J0188.D	1	BII0585-BS1	
43	03-OCT-2020	07:32	820J0189.D	1	BII0585-BSD1	
44	03-OCT-2020	07:57	820J0190.D	1	20I0267-08	
45	03-OCT-2020	08:21	820J0191.D	1	20I0267-16	
46	03-OCT-2020	10:51	820J0197.D	1	ALIPHCCV8	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

ARI Job No.: ALIB Method: EPHaliph.m Instrument: fid8.i Date: 01-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2050	820J0107.D	ALIB		1	NO MANUAL INTEGRATION
0013	820J0115.D	20ALIPH		1	C10,
0039	820J0116.D	50ALPIH		1	C10,
0104	820J0117.D	100ALIPH		1	NO MANUAL INTEGRATION
0129	820J0118.D	125ALIPH		1	NO MANUAL INTEGRATION
0154	820J0119.D	150ALIPH		1	NO MANUAL INTEGRATION
0219	820J0120.D	200ALIPH		1	NO MANUAL INTEGRATION
0245	820J0121.D	ALIPHSC2		1	C8,
1228	820J0144.D	ALIPHICV2		1	NO MANUAL INTEGRATION
1254	820J0145.D	BII0795-BLK1		1	NO MANUAL INTEGRATION
1320	820J0146.D	BII0795-BS1		1	C10,
1346	820J0147.D	20I0109-02		1	1-Chloro-Octodecane,
1412	820J0148.D	20I0109-03		1	1-Chloro-Octodecane,
1438	820J0149.D	20I0109-05		1	1-Chloro-Octodecane,
1504	820J0150.D	20I0109-07		1	1-Chloro-Octodecane,
1529	820J0151.D	20I0109-08		1	1-Chloro-Octodecane,
1555	820J0152.D	20I0109-09		1	1-Chloro-Octodecane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1621	820J0153.D	20I0109-10		1	1-Chloro-Octodecane,
1646	820J0154.D	BII0795-MS1		1	C10, 1-Chloro-Octodecane,
1712	820J0155.D	BII0795-MSD1		1	C10, 1-Chloro-Octodecane,
1738	820J0156.D	ALIPHCCV3		1	NO MANUAL INTEGRATION
1803	820J0157.D	20I0109-11		1	NO MANUAL INTEGRATION
1829	820J0158.D	20I0149-01		1	1-Chloro-Octodecane,
1854	820J0159.D	20I0149-02		1	1-Chloro-Octodecane,
1920	820J0160.D	20I0149-05		1	1-Chloro-Octodecane,
1945	820J0161.D	20I0149-07		1	1-Chloro-Octodecane,
2010	820J0162.D	20I0149-08		1	1-Chloro-Octodecane,
2036	820J0163.D	20I0149-09		1	1-Chloro-Octodecane,
2101	820J0164.D	20I0149-10		1	1-Chloro-Octodecane,
2127	820J0165.D	ALIPHCCV4		1	C10,
2217	820J0167.D	BII0478-BLK1		1	NO MANUAL INTEGRATION
2242	820J0168.D	BII0478-BS1		1	C10,
2308	820J0169.D	BII0478-BSD1		1	C10,
2333	820J0170.D	20I0212-03		1	NO MANUAL INTEGRATION
2358	820J0171.D	BII0481-BLK1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001aliph.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0023	820J0172.D	BII0481-BS1	1	C10,	
0049	820J0173.D	BII0481-BSD1	1	C10,	
0114	820J0174.D	20I0212-06	1	NO MANUAL INTEGRATION	
0139	820J0175.D	20I0212-24	1	NO MANUAL INTEGRATION	
0552	820J0185.D	ALIPHCCV6	1	NO MANUAL INTEGRATION	
0642	820J0187.D	BII0585-BLK1	1	NO MANUAL INTEGRATION	
0707	820J0188.D	BII0585-BS1	1	C10,	
0732	820J0189.D	BII0585-BSD1	1	C10,	
0757	820J0190.D	20I0267-08	1	NO MANUAL INTEGRATION	
0821	820J0191.D	20I0267-16	1	NO MANUAL INTEGRATION	
1051	820J0197.D	ALIPHCCV8	1	NO MANUAL INTEGRATION	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	01-OCT-2020	17:18	820J0101.D	1	RINSE	
2	01-OCT-2020	18:00	820J0102.D	1	RINSE	
3	01-OCT-2020	18:25	820J0103.D	1	RINSE	
4	01-OCT-2020	19:34	820J0104.D	1	RINSE	
5	01-OCT-2020	19:59	820J0105.D	1	RINSE	
6	01-OCT-2020	20:25	820J0106.D	1	ARIB	
7	01-OCT-2020	21:16	820J0108.D	1	20AROM	
8	01-OCT-2020	21:41	820J0109.D	1	50AROM	
9	01-OCT-2020	22:07	820J0110.D	1	100AROM	
10	01-OCT-2020	22:32	820J0111.D	1	125AROM	
11	01-OCT-2020	22:57	820J0112.D	1	150AROM	
12	01-OCT-2020	23:23	820J0113.D	1	200AROM	
13	01-OCT-2020	23:48	820J0114.D	1	AROMSCV1	
14	02-OCT-2020	03:10	820J0122.D	1	AROMICV1	
15	02-OCT-2020	03:36	820J0123.D	1	BII0795-BLK2	
16	02-OCT-2020	04:01	820J0124.D	1	BII0795-BS2	
17	02-OCT-2020	04:27	820J0125.D	1	20I0109-02	
18	02-OCT-2020	04:52	820J0126.D	1	20I0109-03	
19	02-OCT-2020	05:18	820J0127.D	1	20I0109-05	
20	02-OCT-2020	05:43	820J0128.D	1	20I0109-07	
21	02-OCT-2020	06:09	820J0129.D	1	20I0109-08	
22	02-OCT-2020	06:34	820J0130.D	1	20I0109-09	
23	02-OCT-2020	06:59	820J0131.D	1	20I0109-10	
24	02-OCT-2020	07:24	820J0132.D	1	BII0795-MS2	
25	02-OCT-2020	07:49	820J0133.D	1	BII0795-MSD2	
26	02-OCT-2020	08:14	820J0134.D	1	20I0109-11	
27	02-OCT-2020	08:39	820J0135.D	1	20I0149-01	
28	02-OCT-2020	09:05	820J0136.D	1	AROMCCV1	
29	02-OCT-2020	09:30	820J0137.D	1	20I0149-02	
30	02-OCT-2020	09:55	820J0138.D	1	20I0149-05	
31	02-OCT-2020	10:21	820J0139.D	1	20I0149-07	
32	02-OCT-2020	10:46	820J0140.D	1	20I0149-08	
33	02-OCT-2020	11:12	820J0141.D	1	20I0149-09	
34	02-OCT-2020	11:37	820J0142.D	1	20I0149-10	
35	02-OCT-2020	12:03	820J0143.D	1	AROMCCV2	
36	02-OCT-2020	21:52	820J0166.D	1	AROMCCV5	
37	03-OCT-2020	02:05	820J0176.D	1	BII0478-BLK2	
38	03-OCT-2020	02:30	820J0177.D	1	BII0478-BS2	
39	03-OCT-2020	02:55	820J0178.D	1	BII0478-BSD2	
40	03-OCT-2020	03:20	820J0179.D	1	20I0212-03	
41	03-OCT-2020	03:46	820J0180.D	1	BII0481-BLK2	
42	03-OCT-2020	04:11	820J0181.D	1	BII0481-BS2	
43	03-OCT-2020	04:36	820J0182.D	1	BII0481-BSD2	
44	03-OCT-2020	05:01	820J0183.D	1	20I0212-06	
45	03-OCT-2020	05:26	820J0184.D	1	20I0212-24	
46	03-OCT-2020	06:17	820J0186.D	1	AROMCCV7	
47	03-OCT-2020	08:46	820J0192.D	1	BII0585-BLK2	
48	03-OCT-2020	09:11	820J0193.D	1	BII0585-BS2	
49	03-OCT-2020	09:35	820J0194.D	1	BII0585-BSD2	
50	03-OCT-2020	10:01	820J0195.D	1	20I0267-08	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
51	03-OCT-2020	10:26	820J0196.D	1	20I0267-16	
52	03-OCT-2020	11:16	820J0198.D	1	AROMCCV9	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

ARI Job No.: RINS Method: EPHArOm.m Instrument: fid8.i Date: 01-OCT-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1718	820J0101.D	RINSE		1	NO MANUAL INTEGRATION
1800	820J0102.D	RINSE		1	NO MANUAL INTEGRATION
1825	820J0103.D	RINSE		1	NO MANUAL INTEGRATION
1934	820J0104.D	RINSE		1	NO MANUAL INTEGRATION
1959	820J0105.D	RINSE		1	NO MANUAL INTEGRATION
2025	820J0106.D	ARIB		1	NO MANUAL INTEGRATION
2116	820J0108.D	20AROM		1	1,2,3-Trimetben, Benzo-ghi-per,
2141	820J0109.D	50AROM		1	NO MANUAL INTEGRATION
2207	820J0110.D	100AROM		1	Benzo-ghi-per,
2232	820J0111.D	125AROM		1	NO MANUAL INTEGRATION
2257	820J0112.D	150AROM		1	NO MANUAL INTEGRATION
2323	820J0113.D	200AROM		1	Benzo-ghi-per,
2348	820J0114.D	AROMSCV1		1	NO MANUAL INTEGRATION
0310	820J0122.D	AROMICV1		1	NO MANUAL INTEGRATION
0336	820J0123.D	BII0795-BLK2		1	NO MANUAL INTEGRATION
0401	820J0124.D	BII0795-BS2		1	NO MANUAL INTEGRATION
0427	820J0125.D	20I0109-02		1	1-chlorooctodecane (AROMATIC),

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0452	820J0126.D	20I0109-03	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0518	820J0127.D	20I0109-05	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0543	820J0128.D	20I0109-07	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0609	820J0129.D	20I0109-08	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0634	820J0130.D	20I0109-09	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0659	820J0131.D	20I0109-10	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0724	820J0132.D	BII0795-MS2	1	1	Benzo-ghi-per, 1-chlorooctodecane(AROMATIC), o-Terph Surr,
0749	820J0133.D	BII0795-MSD2	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0814	820J0134.D	20I0109-11	1		NO MANUAL INTEGRATION
0839	820J0135.D	20I0149-01	1		NO MANUAL INTEGRATION
0905	820J0136.D	AROMCCV1	1		NO MANUAL INTEGRATION
0930	820J0137.D	20I0149-02	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
0955	820J0138.D	20I0149-05	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1021	820J0139.D	20I0149-07	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1046	820J0140.D	20I0149-08	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1112	820J0141.D	20I0149-09	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1137	820J0142.D	20I0149-10	1	1	1-chlorooctodecane(AROMATIC), o-Terph Surr,
1203	820J0143.D	AROMCCV2	1		NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201001arom.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2152	820J0166.D	AROMCCV5	1		Benzo-ghi-per,
0205	820J0176.D	BII0478-BLK2	1		NO MANUAL INTEGRATION
0230	820J0177.D	BII0478-BS2	1		NO MANUAL INTEGRATION
0255	820J0178.D	BII0478-BSD2	1		NO MANUAL INTEGRATION
0320	820J0179.D	20I0212-03	1		NO MANUAL INTEGRATION
0346	820J0180.D	BII0481-BLK2	1		NO MANUAL INTEGRATION
0411	820J0181.D	BII0481-BS2	1		NO MANUAL INTEGRATION
0436	820J0182.D	BII0481-BSD2	1		NO MANUAL INTEGRATION
0501	820J0183.D	20I0212-06	1		NO MANUAL INTEGRATION
0526	820J0184.D	20I0212-24	1		NO MANUAL INTEGRATION
0617	820J0186.D	AROMCCV7	1		NO MANUAL INTEGRATION
0846	820J0192.D	BII0585-BLK2	1		NO MANUAL INTEGRATION
0911	820J0193.D	BII0585-BS2	1		NO MANUAL INTEGRATION
0935	820J0194.D	BII0585-BSD2	1		NO MANUAL INTEGRATION
1001	820J0195.D	20I0267-08	1		NO MANUAL INTEGRATION
1026	820J0196.D	20I0267-16	1		NO MANUAL INTEGRATION
1116	820J0198.D	AROMCCV9	1		Benzo-ghi-per,

Security Status Report

Date: 05-Oct-2020 17:34

820J0107.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0115.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0116.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0117.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0118.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0119.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0120.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0121.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0144.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0145.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0146.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0147.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0148.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0149.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0150.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0151.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0152.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0153.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0154.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0155.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0156.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0157.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0158.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0159.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0160.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0161.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0162.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0163.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0164.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0165.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0167.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0168.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0169.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0170.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0171.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0172.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0173.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0174.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0175.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0185.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0187.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0188.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0189.D	Data Locked	j rains,	05-Oct-2020	17:34
820J0190.D	Data Locked	j rains,	05-Oct-2020	17:34

820J0191.D
820J0197.D

Data Locked
Data Locked

j rains, 05-Oct-2020 17:34
j rains, 05-Oct-2020 17:34

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Security Status Report

Date: 05-Oct-2020 17:40

820J0101.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0102.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0103.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0104.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0105.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0106.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0108.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0109.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0110.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0111.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0112.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0113.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0114.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0122.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0123.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0124.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0125.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0126.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0127.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0128.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0129.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0130.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0131.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0132.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0133.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0134.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0135.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0136.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0137.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0138.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0139.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0140.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0141.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0142.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0143.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0166.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0176.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0177.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0178.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0179.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0180.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0181.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0182.D	Data Locked	j rains,	05-Oct-2020	17:40
820J0183.D	Data Locked	j rains,	05-Oct-2020	17:40

820J0184.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0186.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0192.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0193.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0194.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0195.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0196.D	Data Locked	jrains, 05-Oct-2020 17:40
820J0198.D	Data Locked	jrains, 05-Oct-2020 17:40



ANALYSIS BATCH (SEQUENCE) SUMMARY

WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIK0322

Instrument: FID8

Calibration: DJ00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ALIPHATICS	SIK0322-ICV1	820K2003.D	NA	11/20/20 08:22
Blank	BIJ0838-BLK1	820K2004.D	Water	11/20/20 08:47
LCS	BIJ0838-BS1	820K2005.D	Water	11/20/20 09:12
SC-FB-2010261145	20J0385-01	820K2006.D	Water	11/20/20 09:36
SC-RB-2010261130	20J0385-02	820K2007.D	Water	11/20/20 10:01
ALIPHATICS	SIK0322-CCV1	820K2008.D	NA	11/20/20 10:26



ANALYSIS SEQUENCE

SIK0322

Instrument: FID8
Calibration ID: DJ00015

Element Column ID: d02555

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Comments
SIK0322-ICV1	ALIPHATICS	QC		1	I009827		
BIJ0838-BLK1	Blank	QC		2			
BIJ0838-BS1	LCS	QC		3			
20J0385-01	SC-FB-2010261145	WA EPH Aliphatic C10-C12 mod	A 01	4			
20J0385-02	SC-RB-2010261130	WA EPH Aliphatic C10-C12 mod	A 01	5			
SIK0322-CCV1	ALIPHATICS	QC		6	I009827		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201120aliph.b

	Inject	Date/Time	Filename	DF	LabID	ClientID
1	20-NOV-2020	07:34	820K2001.D	1	DCMRINSE	
2	20-NOV-2020	07:58	820K2002.D	1	DCMRINSE	
3	20-NOV-2020	08:22	820K2003.D	1	ALIPHICV1	
4	20-NOV-2020	08:47	820K2004.D	1	BIJ0838-BLK1	
5	20-NOV-2020	09:12	820K2005.D	1	BIJ0838-BS1	
6	20-NOV-2020	09:36	820K2006.D	1	20J0385-01	
7	20-NOV-2020	10:01	820K2007.D	1	20J0385-02	
8	20-NOV-2020	10:26	820K2008.D	1	ALIPHCCV1	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem2\fid8.i\20201120aliph.b

ARI Job No.: DCMR Method: EPHaliph.m Instrument: fid8.i Date: 20-NOV-2020

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0734	820K2001.D	DCMRINSE		1	NO MANUAL INTEGRATION
0758	820K2002.D	DCMRINSE		1	NO MANUAL INTEGRATION
0822	820K2003.D	ALIPHICV1		1	NO MANUAL INTEGRATION
0847	820K2004.D	BIJ0838-BLK1		1	NO MANUAL INTEGRATION
0912	820K2005.D	BIJ0838-BS1		1	C10,
0936	820K2006.D	20J0385-01		1	NO MANUAL INTEGRATION
1001	820K2007.D	20J0385-02		1	NO MANUAL INTEGRATION
1026	820K2008.D	ALIPHCCV1		1	C8,

Security Status Report

Date: 23-Nov-2020 14:44

820K2001.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2002.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2003.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2004.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2005.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2006.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2007.D	Data Locked	j rains, 23-Nov-2020 14:44
820K2008.D	Data Locked	j rains, 23-Nov-2020 14:44



SURROGATE RECOVERY AND RT SUMMARY

WA EPH

Laboratory: Analytical Resources, Inc.

SDG/WO: 20J0385

Client: Anchor QEA, LLC

Project: GascoSiltronic

Sequence: SIJ0055

Instrument: FID8

Calibration: DJ00015

Calibration Date: 10/02/2020

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIJ0055-SCV2 (Water)			Lab File ID: 820J0121.D			Analyzed: 10/02/20 02:45		
1-Chloro-octadecane	125.00	139	70 - 130	7.01	7.01	0.0000	N/A	*



SURROGATE RECOVERY AND RT SUMMARY

WA EPH

Laboratory: <u>Analytical Resources, Inc.</u>	SDG/WO: <u>20J0385</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>GascoSiltronic</u>
Sequence: <u>SIK0322</u>	Instrument: <u>FID8</u>
Calibration: <u>DJ00015</u>	Calibration Date: <u>10/02/2020</u>

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SIK0322-ICV1 (Water)			Lab File ID: 820K2003.D			Analyzed: 11/20/20 08:22		
1-Chloro-octadecane	125.00	97.3	80 - 120	7	7.01	-0.0100	N/A	
BIJ0838-BLK1 (Water)			Lab File ID: 820K2004.D			Analyzed: 11/20/20 08:47		
1-Chloro-octadecane	150.00	46.7	36 - 120	7	7.01	-0.0100	N/A	
BIJ0838-BS1 (Water)			Lab File ID: 820K2005.D			Analyzed: 11/20/20 09:12		
1-Chloro-octadecane	150.00	62.0	36 - 120	7.03	7.01	0.0200	N/A	
20J0385-01 (Water)			Lab File ID: 820K2006.D			Analyzed: 11/20/20 09:36		
1-Chloro-octadecane	150.00	49.6	36 - 120	7	7.01	-0.0100	N/A	
20J0385-02 (Water)			Lab File ID: 820K2007.D			Analyzed: 11/20/20 10:01		
1-Chloro-octadecane	150.00	49.3	36 - 120	7	7.01	-0.0100	N/A	
SIK0322-CCV1 (Water)			Lab File ID: 820K2008.D			Analyzed: 11/20/20 10:26		
1-Chloro-octadecane	125.00	96.6	80 - 120	7	7.01	-0.0100	N/A	



HOLDING TIME SUMMARY

Analysis: WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

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
SC-FB-2010261145 20J0385-01	10/26/20 11:45	10/28/20 11:35	10/30/20 20:34	4	7	11/20/20 09:36	21	40	
SC-RB-2010261130 20J0385-02	10/26/20 11:30	10/28/20 11:35	10/30/20 20:34	4	7	11/20/20 10:01	21	40	

* Indicates hold time exceedance.



Analytical Resources, Incorporated
Analytical Chemists and Consultants

METHOD DETECTION AND REPORTING LIMITS

WA EPH

Laboratory: Analytical Resources, Inc.

SDG: 20J0385

Client: Anchor OEA, LLC

Project: GascoSiltronic

Matrix: Water

Instrument: FID8

Analyte	MDL	RL	Units
C10-C12 Aliphatics		20	ug/L