The results set forth herein are provided by SGS North America Inc.

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Automated Report

Technical Report for

Tetra Tech

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

103X903520F0071220706

SGS Job Number: JD52068

Sampling Date: 09/15/22

Report to:

Tetra Tech
1560 Broadway Street Suite 1400
Denver, CO 80202
madison.ericson@tetratech.com; R8START.LabReports@tetratechinc.onmicrosoft.com

ATTN: Madison Ericson

Total number of pages in report: 318

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

David Chastain
General Manager

Client Service contact: Jadon Schiller 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA(68-00408), RI, SC, TX, UT, VA, WV

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SGS North America Inc.

Sample Summary

Tetra Tech

Job No: JD52068

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Project No: 103X903520F0071220706

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JD52068-1	09/15/22	14:30	ME	09/16/22	SO	Sludge	VDS-WS-02

This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Tetra Tech	**Job No**	JD52068
Site:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT	**Report Date**	9/30/2022 3:38:26 PM

On 09/16/2022, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at SGS North America Inc. at a maximum corrected temperature of 2.7 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. Job Number of JD52068 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Compounds qualified as out of range in the continuing calibration summary report are acceptable as per method requirements when there is a high bias but the sample result is non-detect.

GC/LC Semi-volatiles By Method MADEP EPH REV 2.1

Matrix: SO **Batch ID:** OP41903

- All samples were extracted within the recommended method holding time.
- Sample(s) JD52068-1MSD, JD52068-1MS, JD52068-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene are outside control limits. Outside control limits due to matrix interference and dilution.
- Matrix Spike Duplicate Recovery(s) for Chrysene, Dibenzo(a,h)anthraceneare outside control limits. Outside control limits due to matrix interference and dilution.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Anthracene, 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Benzo(a)anthracene, C11-C22 Aromatics (Unadj.), C19-C36 Aliphatics, C9-C18 Aliphatics, Fluoranthene, Fluorene, Naphthalene, Phenanthrene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2-Methylnaphthalene, Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, C19-C36 Aliphatics, C9-C18 Aliphatics, Chrysene, Dibenzo(a,h)anthracene, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenanthrene, Pyrene are outside control limits for sample OP41903-MSD. Analytical precision exceeds in-house control limits.
- JD52068-1: Sample fractioned at dilution due to the viscosity of the extract matrix.
- OP41903-MS: Sample fractioned at dilution due to the viscosity of the extract matrix.
- JD52068-1 for o-Terphenyl, 2-Fluorobiphenyl, 1-Chlorooctadecane: Outside control limits due to matrix interference.
- OP41903-MS for o-Terphenyl, 2-Fluorobiphenyl: Outside control limits due to matrix interference.
- OP41903-MSD for 2-Fluorobiphenyl: Outside control limits due to matrix interference.
- OP41903-MSD for o-Terphenyl: Outside control limits due to matrix interference.

General Chemistry By Method SM2540 G 18TH ED MOD

Matrix: SO **Batch ID:** GN33467

- Sample(s) JD52092-1DUP were used as the QC samples for Solids, Percent.

SGS North America Inc. certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting the Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS North America Inc. is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by SGS North America Inc indicated via signature on the report cover

Summary of Hits

Job Number: JD52068
Account: Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Collected: 09/15/22

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JD52068-1	**VDS-WS-02**					
Acenaphthene [a]		28200	7500	4900	ug/kg	MADEP EPH REV 2.1
Acenaphthylene [a]		24400	7500	3500	ug/kg	MADEP EPH REV 2.1
Anthracene [a]		12100	7500	3100	ug/kg	MADEP EPH REV 2.1
Benzo(a)anthracene [a]		36600	7500	3100	ug/kg	MADEP EPH REV 2.1
Benzo(a)pyrene [a]		3650 J	7500	2200	ug/kg	MADEP EPH REV 2.1
Benzo(b)fluoranthene [a]		6840 J	7500	1600	ug/kg	MADEP EPH REV 2.1
Fluoranthene [a]		30200	7500	5400	ug/kg	MADEP EPH REV 2.1
Fluorene [a]		33300	7500	2400	ug/kg	MADEP EPH REV 2.1
2-Methylnaphthalene [a]		84200	7500	2500	ug/kg	MADEP EPH REV 2.1
Naphthalene [a]		24300	7500	3200	ug/kg	MADEP EPH REV 2.1
Phenanthrene [a]		37200	7500	2200	ug/kg	MADEP EPH REV 2.1
Pyrene [a]		18300	7500	2000	ug/kg	MADEP EPH REV 2.1
C11-C22 Aromatics (Unadj.) [a]		21400000	370000	33000	ug/kg	MADEP EPH REV 2.1
C9-C18 Aliphatics [a]		8940000	370000	10000	ug/kg	MADEP EPH REV 2.1
C11-C22 Aromatics [a]		21100000	370000	33000	ug/kg	MADEP EPH REV 2.1
C19-C36 Aliphatics [a]		41000000	370000	26000	ug/kg	MADEP EPH REV 2.1

(a) Sample fractioned at dilution due to the viscosity of the extract matrix.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	VDS-WS-02		
Lab Sample ID:	JD52068-1	**Date Sampled:**	09/15/22
Matrix:	SO - Sludge	**Date Received:**	09/16/22
Method:	MADEP EPH REV 2.1 SW846 3546	**Percent Solids:**	85.0
Project:	R8 START: Valley Drive Abandoned Slurry, Kalispell, MT		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	3Y85376.D	10	09/25/22 23:29	TL	09/20/22 10:35	OP41903	G3Y3348
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	10.0 ml
Run #2		

MAEPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	28200	7500	4900	ug/kg	
208-96-8	Acenaphthylene	24400	7500	3500	ug/kg	
120-12-7	Anthracene	12100	7500	3100	ug/kg	
56-55-3	Benzo(a)anthracene	36600	7500	3100	ug/kg	
50-32-8	Benzo(a)pyrene	3650	7500	2200	ug/kg	J
205-99-2	Benzo(b)fluoranthene	6840	7500	1600	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	ND	7500	1900	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	7500	5000	ug/kg	
218-01-9	Chrysene	ND	7500	2400	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	7500	1800	ug/kg	
206-44-0	Fluoranthene	30200	7500	5400	ug/kg	
86-73-7	Fluorene	33300	7500	2400	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	7500	2300	ug/kg	
91-57-6	2-Methylnaphthalene	84200	7500	2500	ug/kg	
91-20-3	Naphthalene	24300	7500	3200	ug/kg	
85-01-8	Phenanthrene	37200	7500	2200	ug/kg	
129-00-0	Pyrene	18300	7500	2000	ug/kg	
	C11-C22 Aromatics (Unadj.)	21400000	370000	33000	ug/kg	
	C9-C18 Aliphatics	8940000	370000	10000	ug/kg	
	C11-C22 Aromatics	21100000	370000	33000	ug/kg	
	C19-C36 Aliphatics	41000000	370000	26000	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
3386-33-2	1-Chlorooctadecane	381% [b]		40-140%
84-15-1	o-Terphenyl	1903% [b]		40-140%
321-60-8	2-Fluorobiphenyl	559% [b]		40-140%

(a) Sample fractioned at dilution due to the viscosity of the extract matrix.
(b) Outside control limits due to matrix interference.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

7779-5120-5573

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SGS

EHSA-QAC-0023-04-FORM-Standard COC

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.sgs.com/ehsusa

FED-EX Tracking #	Bottle Order Control #
SGS Quote #	SGS Job # JD52068

Client / Reporting Information

Company Name: Tetra Tech
Street Address: 1560 Broadway Suite 1400
City: Denver State: CO Zip: 80202
Project Contact: maura.mcaleese@tetratech.com E-mail:
Phone #: 303-312-8803
Sampler(s) Name(s): M.Ericson Phone #:

Project Information

Project Name: Valley Drive Abandoned Waste
Street:
City: Kalispell State: MT
Project #: 103X903520F0071220706
Client Purchase Order #:
Project Manager: Madison Ericson

Billing Information (if different from Report to)
Company Name: Tetra Tech
Street Address: 1560 Broadway Suite 1400
City: Denver State: CO Zip: 80202
Attention: Maura McAleese

Requested Analysis: MA-EPH (SW846 3546)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL- Sludge; SED-Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	Number of bottles: HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	MA-EPH (SW846 3546)	pH Check (Lab Use Only)	LAB USE ONLY
1	VDS-WS-02		9/15/22	1430	M.E	C	N	Waste	3					X				X		15B

Turn Around Time (Business Days)

Approved By (SGS PM): / Date:

- [ ] 10 Business Days
- [ ] 5 Business Days
- [X] 3 Business Days* — Andrew Obuchowski on 9/14/22
- [ ] 2 Business Days*
- [ ] 1 Business Day*
- [ ] Other

All data available via Labink — * Approval needed for 1-3 Business Day TAT

Deliverable

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] NJ Reduced (Level 3)
- [ ] Full Tier I (Level 4)
- [ ] Commercial "C"
- [ ] NJ DKQP
- [ ] NYASP Category A
- [ ] NYASP Category B
- [ ] MA MCP Criteria_____
- [ ] CT RCP Criteria_____
- [ ] State Forms
- [X] EDD Format: SCRIBE- START Region 8
- [ ] DOD-QSM5

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Comments / Special Instructions

Please also send invoice and EDD to:
R8START.LabReports@tetratechinc.onmicrosoft.com
Madison.Ericson@tetratech.com

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1	7/22/1400		2	7/16/22	2
3		3	4		4
5		5			

Custody Seal # — [ ] Intact [ ] Not intact [ ] Absent — Therm ID: — See Sample Receipt Summary [ ] — On Ice — Cooler Temp. °C

SGS Sample Receipt Summary

Job Number: JD52068 **Client:** TETRA TECH **Project:** VALLEY DRIVE ABANDONED WASTE

Date / Time Received: 9/16/2022 10:00:00 AM **Delivery Method:** Fed Ex **Airbill #'s:** 7779 5120 5573

Cooler Temps (Raw Measured) °C: Cooler 1: (2.1);

Cooler Temps (Corrected) °C: Cooler 1: (2.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify) _____ _____

Comments

SM089-03
Rev. Date 12/7/17

JD52068: Chain of Custody
Page 2 of 3

Job Change Order: JD52068

Requested Date:	9/19/2022	**Received Date:**	9/16/2022
Account Name:	Tetra Tech	**Due Date:**	9/19/2022
Project Description:	R8 START: Valley Drive Abandoned Slurry, Kalis	**Deliverable:**	FULT1
C/O Initiated By:	JADONS **PM:** JBS	**TAT (Days):**	7

==========

Sample #: JD52068-ALL

Dept:

TAT: 7

Change:
Please log EXTSTORAGE with a quantity of 365 days

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Above Changes Per: Maura McAleese **Date/Time:** 9/19/2022

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

Internal Sample Tracking Chronicle

Tetra Tech

Job No: JD52068

R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Project No: 103X903520F0071220706

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JD52068-1	Collected: 15-SEP-22 14:30 By: ME		Received: 16-SEP-22 By: JK			
VDS-WS-02						
JD52068-1	SM2540 G 18TH ED MOD	19-SEP-22 16:28	BG			SOL104
JD52068-1	MADEP EPH REV 2.1	25-SEP-22 23:29	TL	20-SEP-22	AC	BMAEPH

SGS Internal Chain of Custody

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT
Received: 09/16/22

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JD52068-1.1	Nelson Arroyo	Secured Storage	09/17/22 17:24	Return to Storage
JD52068-1.1	Secured Storage	Benjamin Gaines	09/19/22 09:58	Retrieve from Storage
JD52068-1.1	Benjamin Gaines	Secured Staging Area	09/19/22 09:58	Return to Storage
JD52068-1.1	Secured Staging Area	Benjamin Gaines	09/19/22 09:59	Retrieve from Storage
JD52068-1.1	Benjamin Gaines	Secured Storage	09/19/22 16:22	Return to Storage
JD52068-1.1	Christian King	Secured Staging Area	09/19/22 23:47	Return to Storage
stage				
JD52068-1.1	Secured Staging Area	Ellen Dondeo	09/20/22 06:07	Retrieve from Storage
JD52068-1.1	Ellen Dondeo	Secured Storage	09/22/22 05:50	Return to Storage
JD52068-1.1.1	Ellen Dondeo	Organics Prep	09/20/22 06:40	Extract from JD52068-1.1
JD52068-1.1.1	Organics Prep	Alejandra Cruz	09/22/22 19:38	Extract from JD52068-1.1
JD52068-1.1.1	Alejandra Cruz	Extract Storage	09/22/22 19:38	Return to Storage
JD52068-1.1.1	Extract Storage	Christine Phillips	09/23/22 00:15	Retrieve from Storage
JD52068-1.1.1	Christine Phillips	GC6Y	09/23/22 00:15	Load on Instrument
JD52068-1.2	Nelson Arroyo	Secured Storage	09/17/22 17:24	Return to Storage
JD52068-1.3	Nelson Arroyo	Secured Storage	09/17/22 17:24	Return to Storage

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41903-MB1	3Y85373.D	1	09/25/22	TL	09/20/22	OP41903	G3Y3348

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 2.1

JD52068-1

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	130	88	ug/kg	
208-96-8	Acenaphthylene	ND	130	62	ug/kg	
120-12-7	Anthracene	ND	130	56	ug/kg	
56-55-3	Benzo(a)anthracene	ND	130	55	ug/kg	
50-32-8	Benzo(a)pyrene	ND	130	39	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	130	29	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	130	34	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	130	90	ug/kg	
218-01-9	Chrysene	ND	130	43	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	130	32	ug/kg	
206-44-0	Fluoranthene	ND	130	97	ug/kg	
86-73-7	Fluorene	ND	130	42	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	130	41	ug/kg	
91-57-6	2-Methylnaphthalene	ND	130	45	ug/kg	
91-20-3	Naphthalene	ND	130	57	ug/kg	
85-01-8	Phenanthrene	ND	130	39	ug/kg	
129-00-0	Pyrene	ND	130	35	ug/kg	
	C11-C22 Aromatics (Unadj.)	ND	6700	580	ug/kg	
	C9-C18 Aliphatics	ND	6700	190	ug/kg	
	C11-C22 Aromatics	ND	6700	580	ug/kg	
	C19-C36 Aliphatics	ND	6700	450	ug/kg	

CAS No.	Surrogate Recoveries		Limits
3386-33-2	1-Chlorooctadecane	76%	40-140%
84-15-1	o-Terphenyl	66%	40-140%
321-60-8	2-Fluorobiphenyl	84%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41903-BS1	3Y85374.D	1	09/25/22	TL	09/20/22	OP41903	G3Y3348
OP41903-BSD	3Y85375.D	1	09/25/22	TL	09/20/22	OP41903	G3Y3348

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 2.1

JD52068-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	BSD ug/kg	BSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	3330	1970	59	2180	65	10	40-140/30
208-96-8	Acenaphthylene	3330	1910	57	2140	64	11	40-140/30
120-12-7	Anthracene	3330	2230	67	2420	73	8	40-140/30
56-55-3	Benzo(a)anthracene	3330	2260	68	2430	73	7	40-140/30
50-32-8	Benzo(a)pyrene	3330	2100	63	2220	67	6	40-140/30
205-99-2	Benzo(b)fluoranthene	3330	2300	69	2430	73	5	40-140/30
191-24-2	Benzo(g,h,i)perylene	3330	2320	70	2480	74	7	40-140/30
207-08-9	Benzo(k)fluoranthene	3330	2370	71	2510	75	6	40-140/30
218-01-9	Chrysene	3330	2220	67	2370	71	7	40-140/30
53-70-3	Dibenzo(a,h)anthracene	3330	2230	67	2380	71	7	40-140/30
206-44-0	Fluoranthene	3330	2300	69	2480	74	8	40-140/30
86-73-7	Fluorene	3330	2110	63	2300	69	9	40-140/30
193-39-5	Indeno(1,2,3-cd)pyrene	3330	2320	70	2490	75	7	40-140/30
91-57-6	2-Methylnaphthalene	3330	1960	59	2250	68	14	40-140/30
91-20-3	Naphthalene	3330	1940	58	2260	68	15	40-140/30
85-01-8	Phenanthrene	3330	2240	67	2430	73	8	40-140/30
129-00-0	Pyrene	3330	2250	68	2430	73	8	40-140/30
	C11-C22 Aromatics (Unadj.)	56700	41200	73	43600	77	6	50-150/30 [a]
	C9-C18 Aliphatics	20000	11300	57	13600	68	18	40-140/30
	C19-C36 Aliphatics	36700	27500	75	30000	82	9	40-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
3386-33-2	1-Chlorooctadecane	54%	61%	40-140%
84-15-1	o-Terphenyl	64%	70%	40-140%
321-60-8	2-Fluorobiphenyl	86%	96%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP41903-BS1	2-Methylnaphthalene	1960	ND	0.0%	5.0
OP41903-BS1	Naphthalene	1940	ND	0.0%	5.0
OP41903-BSD	2-Methylnaphthalene	2250	ND	0.0%	5.0
OP41903-BSD	Naphthalene	2260	ND	0.0%	5.0

(a) Advisory control limits.

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP41903-MS [a]	3Y85377.D	10	09/26/22	TL	09/20/22	OP41903	G3Y3348
OP41903-MSD	3Y85387.D	10	09/28/22	TL	09/20/22	OP41903	G3Y3349
JD52068-1 [a]	3Y85376.D	10	09/25/22	TL	09/20/22	OP41903	G3Y3348

The QC reported here applies to the following samples: **Method:** MADEP EPH REV 2.1

JD52068-1

CAS No.	Compound	JD52068-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	28200		3920	16600	-296* [b]	3800	40400	321* [b]	84* [c]	40-140/50
208-96-8	Acenaphthylene	24400		3920	13400	-280* [b]	3800	33200	232* [b]	85* [c]	40-140/50
120-12-7	Anthracene	12100		3920	7120	-127* [b]	3800	21400	245* [b]	100* [c]	40-140/50
56-55-3	Benzo(a)anthracene	36600		3920	15600	-535* [b]	3800	44600	211* [b]	96* [c]	40-140/50
50-32-8	Benzo(a)pyrene	3650	J	3920	ND	-93* [d]	3800	16000	325* [d]	200* [c]	40-140/50
205-99-2	Benzo(b)fluoranthene	6840	J	3920	6380	-12* [d]	3800	17200	273* [d]	92* [c]	40-140/50
191-24-2	Benzo(g,h,i)perylene	ND		3920	ND	0* [d]	3800	9720	256* [d]	200* [c]	40-140/50
207-08-9	Benzo(k)fluoranthene	ND		3920	7450	190* [d]	3800	24300	640* [d]	106* [c]	40-140/50
218-01-9	Chrysene	ND		3920	3400	87	3800	16100	424* [d]	130* [c]	40-140/50
53-70-3	Dibenzo(a,h)anthracene	ND		3920	2410	61	3800	12900	340* [d]	137* [c]	40-140/50
206-44-0	Fluoranthene	30200		3920	17600	-321* [b]	3800	50600	538* [b]	97* [c]	40-140/50
86-73-7	Fluorene	33300		3920	17600	-400* [b]	3800	50900	464* [b]	97* [c]	40-140/50
193-39-5	Indeno(1,2,3-cd)pyrene	ND		3920	ND	0* [d]	3800	8420	222* [d]	200* [c]	40-140/50
91-57-6	2-Methylnaphthalene	84200		3920	49000	-898* [b]	3800	115000	812* [b]	80* [c]	40-140/50
91-20-3	Naphthalene	24300		3920	15500	-224* [b]	3800	34600	271* [b]	76* [c]	40-140/50
85-01-8	Phenanthrene	37200		3920	21800	-393* [b]	3800	56900	519* [b]	89* [c]	40-140/50
129-00-0	Pyrene	18300		3920	13000	-135* [b]	3800	30600	324* [b]	81* [c]	40-140/50
	C11-C22 Aromatics (Unadj.)	21400000		66700	12400000	-13500* [b]	64500	29100000	11935* [b]	80* [c]	50-150/30 [e]
	C9-C18 Aliphatics	8940000		23500	4160000	-20315* [b]	22800	10600000	7290* [b]	87* [c]	40-140/50
	C19-C36 Aliphatics	41000000		43100	20500000	-47523* [b]	41700	53700000	30422* [b]	89* [c]	40-140/50

CAS No.	Surrogate Recoveries	MS	MSD	JD52068-1	Limits
3386-33-2	1-Chlorooctadecane	61%	122%	381%* [f]	40-140%
84-15-1	o-Terphenyl	994%* [f]	2773%* [f]	1903%* [f]	40-140%
321-60-8	2-Fluorobiphenyl	487%* [f]	2062%* [f]	559%* [f]	40-140%

(a) Sample fractioned at dilution due to the viscosity of the extract matrix.
(b) Outside control limits due to high level in sample relative to spike amount.
(c) Analytical precision exceeds in-house control limits.
(d) Outside control limits due to matrix interference and dilution.
(e) Advisory control limits.
(f) Outside control limits due to matrix interference.

* = Outside of Control Limits.

Surrogate Recovery Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Method: MADEP EPH REV 2.1 **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S2 [b]	S3 [b]
JD52068-1	3Y85376.D	381* [c]	1903* [c]	559* [c]
OP41903-BS1	3Y85374.D	54	64	86
OP41903-BSD	3Y85375.D	61	70	96
OP41903-MB1	3Y85373.D	76	66	84
OP41903-MS	3Y85377.D	61	994* [c]	487* [c]
OP41903-MSD	3Y85387.D	122	2773* [c]	2062* [c]

Surrogate Compounds	Recovery Limits
S1 = 1-Chlorooctadecane	40-140%
S2 = o-Terphenyl	40-140%
S3 = 2-Fluorobiphenyl	40-140%

(a) Recovery from GC signal #2
(b) Recovery from GC signal #1
(c) Outside control limits due to matrix interference.

GC Surrogate Retention Time Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G3Y3348-CC3347	**Injection Date:**	09/25/22
Lab File ID:	3Y85358.D	**Injection Time:**	12:08
Instrument ID:	GC3Y	**Method:**	MADEP EPH REV 2.1

	S1 [a] RT	S2 [b] RT	S3 [b] RT
Check Std	13.66	12.51	8.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S3 [b] RT
ZZZZZZ	3Y85364.D	09/25/22	16:06	13.66	12.51	8.24
ZZZZZZ	3Y85365.D	09/25/22	16:43	13.66	12.51	8.24
ZZZZZZ	3Y85366.D	09/25/22	17:20	13.66	12.51	8.24
ZZZZZZ	3Y85367.D	09/25/22	17:57	13.66	12.51	8.24
ZZZZZZ	3Y85368.D	09/25/22	18:34	13.66	12.51	8.24
ZZZZZZ	3Y85369.D	09/25/22	19:11	13.66	12.51	8.24
ZZZZZZ	3Y85370.D	09/25/22	19:48	13.66	12.51	8.23
ZZZZZZ	3Y85371.D	09/25/22	20:24	13.66	12.51	8.23
OP41903-MB1	3Y85373.D	09/25/22	21:38	13.66	12.51	8.23
OP41903-BS1	3Y85374.D	09/25/22	22:15	13.66	12.51	8.23
OP41903-BSD	3Y85375.D	09/25/22	22:52	13.66	12.51	8.24
JD52068-1	3Y85376.D	09/25/22	23:29	13.62	12.48	8.23
OP41903-MS	3Y85377.D	09/26/22	00:05	13.66	12.48	8.23

Surrogate Compounds

S1 = 1-Chlorooctadecane
S2 = o-Terphenyl
S3 = 2-Fluorobiphenyl

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

GC Surrogate Retention Time Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Check Std:	G3Y3349-CC3347	**Injection Date:**	09/28/22
Lab File ID:	3Y85384.D	**Injection Time:**	15:51
Instrument ID:	GC3Y	**Method:**	MADEP EPH REV 2.1

	S1 [a] RT	S2 [b] RT	S3 [b] RT
Check Std	13.66	12.51	8.23

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [b] RT	S3 [b] RT
OP41903-MSD	3Y85387.D	09/28/22	18:03	13.67	12.48	8.23

Surrogate Compounds

S1 = 1-Chlorooctadecane
S2 = o-Terphenyl
S3 = 2-Fluorobiphenyl

(a) Retention time from GC signal #2
(b) Retention time from GC signal #1

Initial Calibration Summary

Job Number: JD52068 **Sample:** G3Y3347-ICC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85354.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Response Factor Report GC3Y3Z

Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M (ChemStation Integrator)
Title : NJDEP Extractable Petroleum Hydrocarbons
Last Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration

Calibration Files
5 =3y85351.d 100 =3y85355.d 50 =3y85354.d 20 =3y85353.d
10 =3y85352.d 2 =3y85350.d 1 =3y85349.d

Compound	5	100	50	20	10	2	1	Avg	%RSD
1)T 1,2,3-Trimethylbe	6.913	6.454	6.775	6.762	6.254	7.006	6.146	6.616 E5	5.03
2)T Naphthalene	7.181	6.766	7.082	6.997	6.503	7.228	6.431	6.884 E5	4.68
3)H C10-C12 Aromatics	7.047	6.610	6.929	6.880	6.378	7.117	6.289	6.750 E5	4.85
4)T 2-Methylnaphthale	7.052	6.618	6.933	6.801	6.397	7.029	6.444	6.753 E5	4.01
5)T Acenaphthylene	6.730	6.352	6.671	6.441	6.173	6.962	6.773	6.586 E5	4.16
6)T Acenaphthene	7.257	6.848	7.187	6.960	6.673	7.358	6.856	7.020 E5	3.58
7)H C12-C16 Aromatics	7.013	6.606	6.930	6.734	6.414	7.116	6.691	6.786 E5	3.63
8)T Fluorene	6.752	6.493	6.793	6.543	6.330	6.929	6.541	6.626 E5	3.11
9)T Phenanthrene	6.441	6.381	6.590	6.289	6.250	6.732	6.396	6.440 E5	2.63
10)T Anthracene	6.412	6.376	6.561	6.257	6.248	6.667	6.341	6.409 E5	2.42
11)T Fluoranthene	6.156	6.283	6.332	6.005	6.129	6.506	6.255	6.238 E5	2.58
12)T Pyrene	6.332	6.460	6.475	6.146	6.300	6.651	6.445	6.401 E5	2.50
13)H C16-C21 Aromatics	6.419	6.399	6.550	6.248	6.251	6.697	6.396	6.423 E5	2.49
14)T Benzo(a)Anthracen	6.009	6.346	6.065	5.891	6.186	6.371	6.493	6.194 E5	3.53
15)T Chrysene	6.031	6.364	6.072	5.911	6.217	6.340	6.288	6.175 E5	2.79
16)T Benzo(b)Fluoranth	5.902	6.271	5.899	5.787	6.104	6.161	6.100	6.032 E5	2.86
17)T Benzo(k)Fluoranth	5.718	6.037	5.699	5.600	5.905	6.017	5.980	5.851 E5	3.01
18)T Benzo(a)Pyrene	5.740	6.085	5.759	5.652	5.926	5.955	5.896	5.859 E5	2.55
19)T Indeno(1,2,3-cd)P	5.671	6.191	5.776	5.663	5.794	5.796	5.694	5.798 E5	3.15
20)T Dibenzo(ah)Anthra	6.226	6.300	6.147	6.114	6.247	6.432	6.280	6.249 E5	1.68
21)T Benzo(ghi)Perylen	5.707	6.029	5.731	5.656	5.825	5.831	5.748	5.790 E5	2.11
22)H C21-C36 Aromatics	5.876	6.203	5.893	5.784	6.026	6.113	6.060	5.994 E5	2.47
23)H C11-C22 Aromatics	6.313	6.365	6.340	6.160	6.189	6.527	6.292	6.312 E5	1.93
24)S 2-Fluorobiphenyl	6.053	5.708	5.995	5.814	5.531	6.120	5.667	5.841 E5	3.77
25)S 2-Bromonaphthalen	4.176	3.970	4.154	4.014	3.858	4.268	3.929	4.053 E5	3.68
26)S o-Terphenyl (S)	6.366	6.323	6.555	6.180	6.193	6.643	6.369	6.375 E5	2.70

Signal #2

28)T C9	6.125	5.853	6.087	6.380	6.231	6.156	4.400	5.890 E5	11.48
29)T C10	6.273	5.923	6.142	6.510	6.355	6.308	4.527	6.005 E5	11.28
30)T C12	6.424	5.989	6.191	6.595	6.420	6.569	4.679	6.124 E5	10.97
31)H C9-C12 Aliphatics	6.274	5.922	6.140	6.495	6.336	6.344	4.535	6.007 E5	11.21
32)T C14	6.430	6.036	6.236	6.649	6.473	6.459	4.716	6.143 E5	10.73
33)T C16	6.510	6.051	6.268	6.680	6.524	6.579	4.836	6.207 E5	10.32
34)H C12-C16 Aliphatic	6.470	6.044	6.252	6.664	6.499	6.519	4.776	6.175 E5	10.52
35)T C18	6.551	6.052	6.277	6.677	6.541	6.784	4.870	6.250 E5	10.51
36)T C19	6.646	6.136	6.374	6.755	6.618	6.762	4.879	6.310 E5	10.61
37)T C20	6.560	6.025	6.257	6.632	6.510	6.665	4.852	6.214 E5	10.34
38)T C21	6.489	5.989	6.210	6.573	6.427	6.657	4.815	6.166 E5	10.34
39)H C16-C21 Aliphatic	6.533	6.022	6.248	6.627	6.493	6.702	4.846	6.210 E5	10.39
40)T C22	6.508	5.945	6.159	6.511	6.376	6.673	4.917	6.155 E5	9.71
41)T C24	6.313	5.868	6.051	6.380	6.247	6.464	4.656	5.997 E5	10.43
42)T C26	6.141	5.738	5.889	6.199	6.066	6.342	4.597	5.853 E5	10.06
43)T C28	5.910	5.687	5.773	6.036	5.892	6.008	4.253	5.651 E5	11.12
44)T C30	5.767	5.691	5.739	5.934	5.782	5.854	4.112	5.554 E5	11.54
45)T C32	5.645	5.676	5.705	5.850	5.669	5.723	3.976	5.463 E5	12.07

Initial Calibration Summary

Job Number: JD52068 **Sample:** G3Y3347-ICC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85354.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

46)T	C34	5.386	5.501	5.512	5.641	5.435	5.439	3.781	5.242	E5	12.39
47)T	C36	5.357	5.515	5.524	5.636	5.435	5.458	3.785	5.244	E5	12.38
48)T	C38	5.233	5.391	5.384	5.497	5.295	5.352	3.846	5.143	E5	11.23
49)T	C40	5.360	5.541	5.471	5.623	5.413	5.406	3.880	5.242	E5	11.58
50)H	C21-C40 Aliphatic	5.762	5.655	5.721	5.931	5.761	5.872	4.180	5.555	E5	11.03
51)H	C9-C18 Aliphatics	6.385	5.984	6.200	6.582	6.424	6.476	4.671	6.103	E5	10.84
52)H	C19-C36 Aliphatic	6.150	5.826	5.971	6.260	6.116	6.278	4.506	5.872	E5	10.61
53)S	Naphthalene (S)	6.691	6.467	6.669	7.029	6.831	6.717	4.648	6.436	E5	12.53
54)S	2-Methylnaphthale	6.811	6.589	6.775	7.199	6.987	6.612	4.755	6.533	E5	12.43
55)S	1-Chlorooctadecan	5.520	5.149	5.333	5.629	5.502	5.667	4.039	5.263	E5	10.79

(#) = Out of Range

EPH3Y3347.M Sun Sep 25 16:56:32 2022

Initial Calibration Verification

Job Number: JD52068 **Sample:** G3Y3347-ICV3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85356.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\g3y3347\3y85356.d\FID1B.ch Vial: 13
Signal #2 : C:\msdchem\1\data\g3y3347\3y85356.d\FID2A.ch
Acq On    : 22 Sep 2022   9:12 pm                    Operator: thomasl
Sample    : icv3347-50                               Inst    : GC3Y3Z
Misc      : op40644,g3y3347,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\EPH3Y3347.M (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Sun Sep 25 16:53:06 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	661.575	672.280 E3	-1.6	99	0.00	4.60- 4.66
2	T	Naphthalene	688.404	696.924 E3	-1.2	98	0.00	6.43- 6.49
3	H	C10-C12 Aromatics	674.990	684.602 E3	-1.4	99	0.00	4.52- 6.58
4	T	2-Methylnaphthalene	675.349	697.416 E3	-3.3	101	0.00	7.56- 7.62
5	T	Acenaphthylene	658.593	606.288 E3	7.9	91	0.00	9.02- 9.08
6	T	Acenaphthene	701.980	661.135 E3	5.8	92	0.00	9.32- 9.38
7	H	C12-C16 Aromatics	678.640	654.947 E3	3.5	95	0.00	6.58- 9.46
8	T	Fluorene	662.592	649.873 E3	1.9	96	0.00	10.19-10.25
9	T	Phenanthrene	643.983	630.366 E3	2.1	96	0.00	11.77-11.84
10	T	Anthracene	640.898	622.042 E3	2.9	95	0.00	11.87-11.93
11	T	Fluoranthene	623.817	602.856 E3	3.4	95	0.00	13.82-13.88
12	T	Pyrene	640.135	595.267 E3	7.0	92	0.00	14.20-14.26
13	H	C16-C21 Aromatics	642.285	620.081 E3	3.5	95	0.00	9.46-14.34
14	T	Benzo(a)Anthracene	619.446	562.763 E3	9.2	93	0.00	16.45-16.51
15	T	Chrysene	617.479	570.904 E3	7.5	94	0.00	16.52-16.58
16	T	Benzo(b)Fluoranthene	603.217	561.311 E3	6.9	95	0.00	18.38-18.44
17	T	Benzo(k)Fluoranthene	585.094	563.641 E3	3.7	99	0.00	18.42-18.50
18	T	Benzo(a)Pyrene	585.903	556.068 E3	5.1	97	0.00	18.90-18.96
19	T	Indeno(1,2,3-cd)Pyrene	579.774	562.373 E3	3.0	97	0.00	20.59-20.69
20	T	Dibenzo(ah)Anthracene	624.936	580.263 E3	7.1	94	0.00	20.65-20.75
21	T	Benzo(ghi)Perylene	578.954	573.438 E3	1.0	100	0.00	20.95-21.05
22	H	C21-C36 Aromatics	599.350	566.345 E3	5.5	96	0.00	14.34-22.00
23	H	C11-C22 Aromatics (Una	631.209	605.466 E3	4.1	96	0.00	6.34-21.10

***** Signal #2 *****

28	T	C9	589.026	631.752 E3	-7.3	104	0.00	3.02- 3.08
29	T	C10	600.534	643.423 E3	-7.1	105	0.00	4.12- 4.18
30	T	C12	612.401	653.836 E3	-6.8	106	0.00	6.30- 6.36
31	H	C9-C12 Aliphatics	600.654	643.004 E3	-7.1	105	0.00	2.94- 6.44
32	T	C14	614.255	671.087 E3	-9.3	108	0.00	8.25- 8.31
33	T	C16	620.691	664.879 E3	-7.1	106	0.00	10.00-10.06
34	H	C12-C16 Aliphatics	617.473	667.983 E3	-8.2	107	0.00	6.44-10.14
35	T	C18	625.042	672.634 E3	-7.6	107	0.00	11.58-11.64
36	T	C19		----------NA----------				
37	T	C20	621.426	664.068 E3	-6.9	106	0.00	13.02-13.08
38	T	C21	616.559	658.747 E3	-6.8	106	0.00	13.71-13.77
39	H	C16-C21 Aliphatics	621.009	665.150 E3	-7.1	106	0.00	10.14-13.86
40	T	C22	615.545	654.107 E3	-6.3	106	0.00	14.39-14.47
41	T	C24	599.689	639.692 E3	-6.7	106	0.00	15.73-15.80

Initial Calibration Verification

Job Number: JD52068 **Sample:** G3Y3347-ICV3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85356.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

42	T	C26	585.324	616.548	E3	-5.3	105	0.00	17.00-17.06
43	T	C28	565.129	600.627	E3	-6.3	104	0.00	18.17-18.26
44	T	C30	555.399	582.206	E3	-4.8	101	0.00	19.30-19.37
45	T	C32	546.341	566.007	E3	-3.6	99	0.00	20.36-20.43
46	T	C34	524.215	561.271	E3	-7.1	102	0.00	21.35-21.42
47	T	C36	524.426	546.710	E3	-4.2	99	0.00	22.39-22.45
48	T	C38	514.267	541.903	E3	-5.4	101	0.00	23.72-23.82
49	T	C40	524.191	543.712	E3	-3.7	99	0.00	25.58-25.68
50	H	C21-C40 Aliphatics	555.453	585.278	E3	-5.4	102	0.00	13.86-25.86
51	H	C9-C18 Aliphatics	610.325	656.269	E3	-7.5	106	0.00	2.94-12.22
52	H	C19-C36 Aliphatics	587.242	614.851	E3	-4.7	104	0.00	12.22-22.54

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3y85354.d EPH3Y3347.M Sun Sep 25 16:57:18 2022

Initial Calibration Verification

Job Number: JD52068 **Sample:** G3Y3347-ICV3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85357.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\g3y3347\3y85357.d\FID1B.ch Vial: 14
Signal #2 : C:\msdchem\1\data\g3y3347\3y85357.d\FID2A.ch
Acq On    : 22 Sep 2022   9:49 pm                    Operator: thomasl
Sample    : icv3347-50                               Inst    : GC3Y3Z
Misc      : op40644,g3y3347,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\MSDCHEM\1\METHODS\EPH3Y3347.M (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Sun Sep 25 16:53:06 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	----------NA----------					
2	T	Naphthalene	----------NA----------					
3	H	C10-C12 Aromatics	----------NA----------					
4	T	2-Methylnaphthalene	----------NA----------					
5	T	Acenaphthylene	----------NA----------					
6	T	Acenaphthene	----------NA----------					
7	H	C12-C16 Aromatics	----------NA----------					
8	T	Fluorene	----------NA----------					
9	T	Phenanthrene	----------NA----------					
10	T	Anthracene	----------NA----------					
11	T	Fluoranthene	----------NA----------					
12	T	Pyrene	----------NA----------					
13	H	C16-C21 Aromatics	----------NA----------					
14	T	Benzo(a)Anthracene	----------NA----------					
15	T	Chrysene	----------NA----------					
16	T	Benzo(b)Fluoranthene	----------NA----------					
17	T	Benzo(k)Fluoranthene	----------NA----------					
18	T	Benzo(a)Pyrene	----------NA----------					
19	T	Indeno(1,2,3-cd)Pyrene	----------NA----------					
20	T	Dibenzo(ah)Anthracene	----------NA----------					
21	T	Benzo(ghi)Perylene	----------NA----------					
22	H	C21-C36 Aromatics	----------NA----------					
23	H	C11-C22 Aromatics (Unadj.	----------NA----------					
24	S	2-Fluorobiphenyl (S)	----------NA----------					
25	S	2-Bromonaphthalene (S)	----------NA----------					
26	S	o-Terphenyl (S)	----------NA----------					
*****		Signal #2 *****						
28	T	C9	----------NA----------					
29	T	C10	----------NA----------					
30	T	C12	----------NA----------					
31	H	C9-C12 Aliphatics	----------NA----------					
32	T	C14	----------NA----------					
33	T	C16	----------NA----------					
34	H	C12-C16 Aliphatics	----------NA----------					
35	T	C18	----------NA----------					
36	T	C19	630.993	634.588 E3	-0.6	100	0.00	12.29-12.39
37	T	C20	----------NA----------					
38	T	C21	----------NA----------					
39	H	C16-C21 Aliphatics	----------NA----------					

Initial Calibration Verification

Job Number: JD52068 **Sample:** G3Y3347-ICV3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85357.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

```
40 T   C22                                  ----------NA----------
41 T   C24                                  ----------NA----------
42 T   C26                                  ----------NA----------
43 T   C28                                  ----------NA----------
44 T   C30                                  ----------NA----------
45 T   C32                                  ----------NA----------
46 T   C34                                  ----------NA----------
47 T   C36                                  ----------NA----------
48 T   C38                                  ----------NA----------
49 T   C40                                  ----------NA----------
50 H   C21-C40 Aliphatics                   ----------NA----------
51 H   C9-C18 Aliphatics                    ----------NA----------
52 H   C19-C36 Aliphatics                   ----------NA----------
53 S   Naphthalene (S)                      ----------NA----------
54 S   2-Methylnaphthalene (S)              ----------NA----------
55 S   1-Chlorooctadecane (S)               ----------NA----------
--------------------------------------------------------------------------------
--------------------------------------------------------------------------------

   (#) = Out of Range                SPCC's out = 0  CCC's out = 0
    3y85354.d  EPH3Y3347.M       Sun Sep 25 17:09:00 2022
```

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3348-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85358.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\tr...48\3y85358.d\FID1B.ch Vial: 2
Signal #2 : C:\msdchem\1\data\trude\...3y3348\3y85358.d\FID2A.ch
Acq On    : 25 Sep 2022  12:08 pm                    Operator: thomasl
Sample    : cc3347-20                                Inst    : GC3Y3Z
Misc      : op40644,g3y3348,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\eph3y3347.m (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Mon Sep 26 20:15:46 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF		%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	661.575	763.599	E3	-15.4	113	0.00	4.60- 4.66
2	T	Naphthalene	688.404	793.755	E3	-15.3	113	0.00	6.43- 6.49
3	H	C10-C12 Aromatics	674.990	778.677	E3	-15.4	113	0.00	4.52- 6.58
4	T	2-Methylnaphthalene	675.349	774.639	E3	-14.7	114	0.00	7.56- 7.62
5	T	Acenaphthylene	658.593	740.913	E3	-12.5	115	0.00	9.02- 9.08
6	T	Acenaphthene	701.980	798.115	E3	-13.7	115	0.00	9.31- 9.37
7	H	C12-C16 Aromatics	678.640	771.222	E3	-13.6	115	0.00	6.58- 9.46
8	T	Fluorene	662.592	746.772	E3	-12.7	114	0.00	10.18-10.24
9	T	Phenanthrene	643.983	721.510	E3	-12.0	115	0.00	11.77-11.84
10	T	Anthracene	640.898	709.758	E3	-10.7	113	0.00	11.86-11.92
11	T	Fluoranthene	623.817	693.296	E3	-11.1	115	0.00	13.81-13.87
12	T	Pyrene	640.135	709.343	E3	-10.8	115	0.00	14.19-14.25
13	H	C16-C21 Aromatics	642.285	716.136	E3	-11.5	114	0.00	9.46-14.34
14	T	Benzo(a)Anthracene	619.446	672.731	E3	-8.6	114	0.00	16.44-16.50
15	T	Chrysene	617.479	674.994	E3	-9.3	114	0.00	16.50-16.56
16	T	Benzo(b)Fluoranthene	603.217	660.085	E3	-9.4	114	0.00	18.36-18.42
17	T	Benzo(k)Fluoranthene	585.094	640.127	E3	-9.4	114	0.00	18.41-18.48
18	T	Benzo(a)Pyrene	585.903	644.187	E3	-9.9	114	0.00	18.89-18.95
19	T	Indeno(1,2,3-cd)Pyrene	579.774	647.874	E3	-11.7	114	0.00	20.57-20.68
20	T	Dibenzo(ah)Anthracene	624.936	697.463	E3	-11.6	114	0.00	20.63-20.73
21	T	Benzo(ghi)Perylene	578.954	645.926	E3	-11.6	114	0.00	20.93-21.03
22	H	C21-C36 Aromatics	599.350	660.424	E3	-10.2	114	0.00	14.34-22.00
23	H	C11-C22 Aromatics (Una	631.209	704.205	E3	-11.6	115	0.00	6.34-21.10
24	S	2-Fluorobiphenyl (S)	584.102	667.429	E3	-14.3	115	0.00	8.20- 8.26
25	S	2-Bromonaphthalene (S)	405.280	460.971	E3	-13.7	115	0.00	9.25- 9.31
26	S	o-Terphenyl (S)	637.536	711.279	E3	-11.6	115	0.00	12.48-12.54
*****		Signal #2 *****							
28	T	C9	589.026	577.297	E3	2.0	90	0.00	3.02- 3.08
29	T	C10	600.534	586.601	E3	2.3	90	0.00	4.13- 4.19
30	T	C12	612.401	599.211	E3	2.2	91	0.00	6.30- 6.36
31	H	C9-C12 Aliphatics	600.654	587.703	E3	2.2	91	0.00	2.94- 6.44
32	T	C14	614.255	608.980	E3	0.9	92	0.00	8.25- 8.31
33	T	C16	620.691	614.144	E3	1.1	92	0.00	10.00-10.06
34	H	C12-C16 Aliphatics	617.473	611.562	E3	1.0	92	0.00	6.44-10.14
35	T	C18	625.042	615.316	E3	1.6	92	0.00	11.58-11.64
36	T	C19	630.993	624.438	E3	1.0	92	0.00	12.29-12.39
37	T	C20	621.426	613.049	E3	1.3	92	0.00	13.01-13.07
38	T	C21	616.559	609.889	E3	1.1	93	0.00	13.71-13.77
39	H	C16-C21 Aliphatics	621.009	612.751	E3	1.3	93	0.00	10.14-13.86

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3348-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85358.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

40	T	C22	615.545	603.120	E3	2.0	93	0.00	14.39-14.47
41	T	C24	599.689	590.644	E3	1.5	93	0.00	15.73-15.80
42	T	C26	585.324	572.904	E3	2.1	92	0.00	16.99-17.05
43	T	C28	565.129	558.798	E3	1.1	93	0.00	18.17-18.26
44	T	C30	555.399	551.963	E3	0.6	93	0.00	19.30-19.37
45	T	C32	546.341	543.002	E3	0.6	93	0.00	20.35-20.42
46	T	C34	524.215	522.802	E3	0.3	93	0.00	21.35-21.42
47	T	C36	524.426	521.986	E3	0.5	93	0.00	22.39-22.45
48	T	C38	514.267	507.236	E3	1.4	92	0.00	23.71-23.81
49	T	C40	524.191	514.782	E3	1.8	92	0.00	25.57-25.67
50	H	C21-C40 Aliphatics	555.453	548.724	E3	1.2	93	0.00	13.86-25.86
51	H	C9-C18 Aliphatics	610.325	600.258	E3	1.6	91	0.00	2.94-12.22
52	H	C19-C36 Aliphatics	587.242	579.613	E3	1.3	92	0.00	12.22-22.54
53	S	Naphthalene (S)	643.607	633.599	E3	1.6	90	0.00	6.20- 6.26
54	S	2-Methylnaphthalene (S	653.258	646.886	E3	1.0	90	0.00	7.33- 7.39
55	S	1-Chlorooctadecane (S)	526.282	521.208	E3	1.0	93	0.00	13.63-13.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3y85358.d eph3y3347.m Mon Sep 26 20:20:44 2022

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3348-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85381.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\tr...48\3y85381.d\FID1B.ch Vial: 3
Signal #2 : C:\msdchem\1\data\trude\...3y3348\3y85381.d\FID2A.ch
Acq On    : 26 Sep 2022   2:33 am                    Operator: thomasl
Sample    : cc3347-50                                Inst    : GC3Y3Z
Misc      : op41903,g3y3348,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\eph3y3347.m (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Mon Sep 26 20:15:46 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	661.575	648.869 E3	1.9	96	0.00	4.60- 4.66
2	T	Naphthalene	688.404	669.914 E3	2.7	95	0.00	6.43- 6.49
3	H	C10-C12 Aromatics	674.990	659.391 E3	2.3	96	0.00	4.52- 6.58
4	T	2-Methylnaphthalene	675.349	655.644 E3	2.9	95	0.00	7.56- 7.62
5	T	Acenaphthylene	658.593	623.868 E3	5.3	94	0.00	9.02- 9.08
6	T	Acenaphthene	701.980	671.412 E3	4.4	93	0.00	9.32- 9.38
7	H	C12-C16 Aromatics	678.640	650.308 E3	4.2	94	0.00	6.58- 9.46
8	T	Fluorene	662.592	635.717 E3	4.1	94	0.00	10.19-10.25
9	T	Phenanthrene	643.983	622.745 E3	3.3	94	0.00	11.77-11.84
10	T	Anthracene	640.898	614.185 E3	4.2	94	0.00	11.87-11.93
11	T	Fluoranthene	623.817	602.586 E3	3.4	95	0.00	13.82-13.88
12	T	Pyrene	640.135	618.751 E3	3.3	96	0.00	14.20-14.26
13	H	C16-C21 Aromatics	642.285	618.797 E3	3.7	95	0.00	9.46-14.34
14	T	Benzo(a)Anthracene	619.446	603.478 E3	2.6	100	0.00	16.45-16.51
15	T	Chrysene	617.479	604.727 E3	2.1	100	0.01	16.52-16.58
16	T	Benzo(b)Fluoranthene	603.217	597.380 E3	1.0	101	0.01	18.38-18.44
17	T	Benzo(k)Fluoranthene	585.094	575.556 E3	1.6	101	0.02	18.42-18.50
18	T	Benzo(a)Pyrene	585.903	580.016 E3	1.0	101	0.01	18.90-18.96
19	T	Indeno(1,2,3-cd)Pyrene	579.774	584.800 E3	-0.9	101	0.02	20.59-20.69
20	T	Dibenzo(ah)Anthracene	624.936	614.822 E3	1.6	100	0.02	20.64-20.74
21	T	Benzo(ghi)Perylene	578.954	580.626 E3	-0.3	101	0.02	20.95-21.05
22	H	C21-C36 Aromatics	599.350	592.676 E3	1.1	101	0.00	14.34-22.00
23	H	C11-C22 Aromatics (Una	631.209	615.072 E3	2.6	95	0.00	6.34-21.10
24	S	2-Fluorobiphenyl (S)	584.102	562.527 E3	3.7	94	0.00	8.21- 8.27
25	S	2-Bromonaphthalene (S)	405.280	389.126 E3	4.0	94	0.00	9.25- 9.31
26	S	o-Terphenyl (S)	637.536	614.813 E3	3.6	94	0.00	12.48-12.54
*****		Signal #2 *****						
28	T	C9	589.026	573.062 E3	2.7	94	0.00	3.02- 3.08
29	T	C10	600.534	591.525 E3	1.5	96	0.00	4.13- 4.19
30	T	C12	612.401	608.175 E3	0.7	98	0.00	6.30- 6.36
31	H	C9-C12 Aliphatics	600.654	590.921 E3	1.6	96	0.00	2.94- 6.44
32	T	C14	614.255	620.633 E3	-1.0	100	0.00	8.26- 8.32
33	T	C16	620.691	627.031 E3	-1.0	100	0.00	10.00-10.06
34	H	C12-C16 Aliphatics	617.473	623.832 E3	-1.0	100	0.00	6.44-10.14
35	T	C18	625.042	633.285 E3	-1.3	101	0.00	11.58-11.64
36	T	C19	630.993	641.849 E3	-1.7	101	0.00	12.29-12.39
37	T	C20	621.426	630.505 E3	-1.5	101	0.00	13.02-13.08
38	T	C21	616.559	626.555 E3	-1.6	101	0.00	13.72-13.78
39	H	C16-C21 Aliphatics	621.009	630.115 E3	-1.5	101	0.00	10.14-13.86

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3348-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85381.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

40	T	C22	615.545	620.933	E3	-0.9	101	0.00	14.39-14.47
41	T	C24	599.689	607.714	E3	-1.3	100	0.00	15.73-15.80
42	T	C26	585.324	590.649	E3	-0.9	100	0.00	16.99-17.05
43	T	C28	565.129	578.617	E3	-2.4	100	0.00	18.17-18.26
44	T	C30	555.399	572.675	E3	-3.1	100	0.00	19.30-19.37
45	T	C32	546.341	569.394	E3	-4.2	100	0.00	20.36-20.43
46	T	C34	524.215	550.739	E3	-5.1	100	0.00	21.35-21.42
47	T	C36	524.426	554.065	E3	-5.7	100	0.00	22.39-22.45
48	T	C38	514.267	539.094	E3	-4.8	100	0.00	23.72-23.82
49	T	C40	524.191	549.515	E3	-4.8	100	0.02	25.58-25.68
50	H	C21-C40 Aliphatics	555.453	573.339	E3	-3.2	100	0.00	13.86-25.86
51	H	C9-C18 Aliphatics	610.325	608.952	E3	0.2	98	0.00	2.94-12.22
52	H	C19-C36 Aliphatics	587.242	599.626	E3	-2.1	101	0.00	12.22-22.54
53	S	Naphthalene (S)	643.607	648.557	E3	-0.8	97	0.00	6.20- 6.26
54	S	2-Methylnaphthalene (S	653.258	663.183	E3	-1.5	98	0.00	7.33- 7.39
55	S	1-Chlorooctadecane (S)	526.282	536.723	E3	-2.0	101	0.00	13.63-13.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3y85354.d eph3y3347.m Mon Sep 26 20:46:25 2022

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3349-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85384.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\g3y3349\3y85384.d\FID1B.ch Vial: 2
Signal #2 : C:\msdchem\1\data\g3y3349\3y85384.d\FID2A.ch
Acq On    : 28 Sep 2022   3:51 pm                    Operator: thomasl
Sample    : cc3347-20                                Inst    : GC3Y3Z
Misc      : op41903,g3y3349,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\eph3y3347.m (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Sun Sep 25 16:53:06 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	661.575	714.069 E3	-7.9	106	0.00	4.60- 4.66
2	T	Naphthalene	688.404	742.648 E3	-7.9	106	0.00	6.43- 6.49
3	H	C10-C12 Aromatics		----------NA----------				
4	T	2-Methylnaphthalene	675.349	725.509 E3	-7.4	107	0.00	7.56- 7.62
5	T	Acenaphthylene	658.593	689.975 E3	-4.8	107	0.00	9.02- 9.08
6	T	Acenaphthene	701.980	743.638 E3	-5.9	107	0.00	9.31- 9.37
7	H	C12-C16 Aromatics		----------NA----------				
8	T	Fluorene	662.592	699.572 E3	-5.6	107	0.00	10.18-10.24
9	T	Phenanthrene	643.983	673.689 E3	-4.6	107	0.00	11.77-11.84
10	T	Anthracene	640.898	662.313 E3	-3.3	106	0.00	11.86-11.92
11	T	Fluoranthene	623.817	645.455 E3	-3.5	107	0.00	13.81-13.87
12	T	Pyrene	640.135	658.270 E3	-2.8	107	0.00	14.19-14.25
13	H	C16-C21 Aromatics		----------NA----------				
14	T	Benzo(a)Anthracene	619.446	627.296 E3	-1.3	106	-0.01	16.44-16.50
15	T	Chrysene	617.479	628.926 E3	-1.9	106	-0.01	16.50-16.56
16	T	Benzo(b)Fluoranthene	603.217	611.832 E3	-1.4	106	-0.01	18.36-18.42
17	T	Benzo(k)Fluoranthene	585.094	588.540 E3	-0.6	105	-0.02	18.40-18.48
18	T	Benzo(a)Pyrene	585.903	593.905 E3	-1.4	105	-0.01	18.89-18.95
19	T	Indeno(1,2,3-cd)Pyrene	579.774	597.632 E3	-3.1	106	-0.02	20.57-20.68
20	T	Dibenzo(ah)Anthracene	624.936	634.875 E3	-1.6	104	-0.02	20.63-20.73
21	T	Benzo(ghi)Perylene	578.954	596.363 E3	-3.0	105	-0.02	20.93-21.03
22	H	C21-C36 Aromatics		----------NA----------				
23	H	C11-C22 Aromatics (Una	631.209	654.144 E3	-3.6	106	0.00	6.34-21.10
24	S	2-Fluorobiphenyl (S)	584.102	624.789 E3	-7.0	107	0.00	8.20- 8.26
25	S	2-Bromonaphthalene (S)	405.280	429.039 E3	-5.9	107	0.00	9.25- 9.31
26	S	o-Terphenyl (S)	637.536	668.230 E3	-4.8	108	0.00	12.48-12.54
*****		Signal #2 *****						
28	T	C9	589.026	614.600 E3	-4.3	96	0.00	3.02- 3.08
29	T	C10	600.534	632.870 E3	-5.4	97	0.00	4.12- 4.18
30	T	C12	612.401	650.327 E3	-6.2	99	0.00	6.30- 6.36
31	H	C9-C12 Aliphatics		----------NA----------				
32	T	C14	614.255	658.643 E3	-7.2	99	0.00	8.25- 8.31
33	T	C16	620.691	659.006 E3	-6.2	99	0.00	10.00-10.06
34	H	C12-C16 Aliphatics		----------NA----------				
35	T	C18	625.042	658.501 E3	-5.4	99	0.00	11.57-11.63
36	T	C19	630.993	667.463 E3	-5.8	99	0.00	12.28-12.38
37	T	C20	621.426	654.596 E3	-5.3	99	0.00	13.01-13.07
38	T	C21	616.559	650.037 E3	-5.4	99	0.00	13.71-13.77
39	H	C16-C21 Aliphatics		----------NA----------				

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3349-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85384.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

40	T	C22	615.545	642.734	E3	-4.4	99	0.00	14.39-14.47
41	T	C24	599.689	630.240	E3	-5.1	99	0.00	15.72-15.79
42	T	C26	585.324	611.177	E3	-4.4	99	0.00	16.99-17.05
43	T	C28	565.129	593.503	E3	-5.0	98	0.00	18.17-18.26
44	T	C30	555.399	582.949	E3	-5.0	98	0.00	19.30-19.37
45	T	C32	546.341	574.858	E3	-5.2	98	0.00	20.35-20.42
46	T	C34	524.215	552.994	E3	-5.5	98	0.00	21.34-21.41
47	T	C36	524.426	554.650	E3	-5.8	98	-0.01	22.38-22.44
48	T	C38	514.267	541.216	E3	-5.2	98	-0.02	23.71-23.81
49	T	C40	524.191	547.529	E3	-4.5	97	-0.03	25.56-25.66
50	H	C21-C40 Aliphatics		----------NA----------					
51	H	C9-C18 Aliphatics	610.325	645.658	E3	-5.8	98	0.00	2.94-12.22
52	H	C19-C36 Aliphatics	587.242	617.164	E3	-5.1	98	0.00	12.22-22.54
53	S	Naphthalene (S)	643.607	686.321	E3	-6.6	98	0.00	6.20- 6.26
54	S	2-Methylnaphthalene (S	653.258	700.562	E3	-7.2	97	0.00	7.33- 7.39
55	S	1-Chlorooctadecane (S)	526.282	552.627	E3	-5.0	98	0.00	13.63-13.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3y85353.d eph3y3347.m Fri Sep 30 14:49:49 2022

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3349-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85388.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Evaluate Continuing Calibration Report

```
Signal #1 : C:\msdchem\1\data\g3y3349\3y85388.d\FID1B.ch Vial: 3
Signal #2 : C:\msdchem\1\data\g3y3349\3y85388.d\FID2A.ch
Acq On    : 28 Sep 2022   7:16 pm                    Operator: thomasl
Sample    : cc3347-50                                Inst    : GC3Y3Z
Misc      : op41903,g3y3349,15.0,,,2,1               Multiplr: 1.00
IntFile Signal #1: autoint1.e   IntFile Signal #2: autoint2.e

Method       : C:\msdchem\1\methods\eph3y3347.m (ChemStation Integrator)
Title        : NJDEP Extractable Petroleum Hydrocarbons
Last Update  : Sun Sep 25 16:53:06 2022
Response via : Multiple Level Calibration

Min. RRF     :   0.500  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  30%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	T	1,2,3-Trimethylbenzene	661.575	694.357 E3	-5.0	102	0.00	4.60- 4.66
2	T	Naphthalene	688.404	723.701 E3	-5.1	102	0.00	6.43- 6.49
3	H	C10-C12 Aromatics		----------NA----------				
4	T	2-Methylnaphthalene	675.349	699.249 E3	-3.5	101	0.00	7.56- 7.62
5	T	Acenaphthylene	658.593	669.130 E3	-1.6	100	0.00	9.02- 9.08
6	T	Acenaphthene	701.980	720.932 E3	-2.7	100	0.00	9.32- 9.38
7	H	C12-C16 Aromatics		----------NA----------				
8	T	Fluorene	662.592	676.663 E3	-2.1	100	0.00	10.19-10.25
9	T	Phenanthrene	643.983	650.488 E3	-1.0	99	0.00	11.77-11.84
10	T	Anthracene	640.898	639.895 E3	0.2	98	0.00	11.87-11.93
11	T	Fluoranthene	623.817	619.766 E3	0.6	98	0.00	13.82-13.88
12	T	Pyrene	640.135	633.112 E3	1.1	98	0.00	14.20-14.26
13	H	C16-C21 Aromatics		----------NA----------				
14	T	Benzo(a)Anthracene	619.446	610.450 E3	1.5	101	0.00	16.45-16.51
15	T	Chrysene	617.479	611.827 E3	0.9	101	0.00	16.51-16.57
16	T	Benzo(b)Fluoranthene	603.217	601.687 E3	0.3	102	0.00	18.37-18.43
17	T	Benzo(k)Fluoranthene	585.094	580.706 E3	0.7	102	0.00	18.42-18.49
18	T	Benzo(a)Pyrene	585.903	585.646 E3	0.0	102	0.00	18.90-18.96
19	T	Indeno(1,2,3-cd)Pyrene	579.774	595.574 E3	-2.7	103	0.00	20.59-20.69
20	T	Dibenzo(ah)Anthracene	624.936	625.344 E3	-0.1	102	0.00	20.64-20.74
21	T	Benzo(ghi)Perylene	578.954	592.866 E3	-2.4	103	0.00	20.95-21.05
22	H	C21-C36 Aromatics		----------NA----------				
23	H	C11-C22 Aromatics (Una	631.209	637.473 E3	-1.0	102	0.00	6.34-21.10
24	S	2-Fluorobiphenyl (S)	584.102	604.398 E3	-3.5	101	0.00	8.20- 8.26
25	S	2-Bromonaphthalene (S)	405.280	416.812 E3	-2.8	100	0.00	9.25- 9.31
26	S	o-Terphenyl (S)	637.536	642.243 E3	-0.7	98	0.00	12.48-12.54

***** Signal #2 *****

28	T	C9	589.026	595.564 E3	-1.1	98	0.00	3.02- 3.08
29	T	C10	600.534	615.516 E3	-2.5	100	0.00	4.13- 4.19
30	T	C12	612.401	639.008 E3	-4.3	103	0.00	6.30- 6.36
31	H	C9-C12 Aliphatics		----------NA----------				
32	T	C14	614.255	649.229 E3	-5.7	104	0.00	8.26- 8.32
33	T	C16	620.691	653.475 E3	-5.3	104	0.00	10.00-10.06
34	H	C12-C16 Aliphatics		----------NA----------				
35	T	C18	625.042	653.934 E3	-4.6	104	0.00	11.58-11.64
36	T	C19	630.993	661.146 E3	-4.8	104	0.00	12.29-12.39
37	T	C20	621.426	648.161 E3	-4.3	104	0.00	13.02-13.08
38	T	C21	616.559	642.253 E3	-4.2	103	0.00	13.71-13.77
39	H	C16-C21 Aliphatics		----------NA----------				

Continuing Calibration Summary

Job Number: JD52068 **Sample:** G3Y3349-CC3347
Account: TTCOD Tetra Tech **Lab FileID:** 3Y85388.D
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

40	T	C22	615.545	634.873	E3	-3.1	103	0.00	14.39-14.47
41	T	C24	599.689	622.486	E3	-3.8	103	0.00	15.73-15.80
42	T	C26	585.324	603.808	E3	-3.2	103	0.00	16.99-17.05
43	T	C28	565.129	590.765	E3	-4.5	102	0.00	18.17-18.26
44	T	C30	555.399	586.027	E3	-5.5	102	0.00	19.30-19.37
45	T	C32	546.341	582.648	E3	-6.6	102	0.00	20.35-20.42
46	T	C34	524.215	565.663	E3	-7.9	103	0.00	21.35-21.42
47	T	C36	524.426	569.322	E3	-8.6	103	0.00	22.38-22.44
48	T	C38	514.267	556.966	E3	-8.3	103	-0.01	23.71-23.82
49	T	C40	524.191	564.463	E3	-7.7	103	-0.02	25.57-25.67
50	H	C21-C40 Aliphatics		----------NA----------					
51	H	C9-C18 Aliphatics	610.325	634.454	E3	-4.0	102	0.00	2.94-12.22
52	H	C19-C36 Aliphatics	587.242	614.574	E3	-4.7	103	0.00	12.22-22.54
53	S	Naphthalene (S)	643.607	677.826	E3	-5.3	102	0.00	6.20- 6.26
54	S	2-Methylnaphthalene (S	653.258	693.765	E3	-6.2	102	0.00	7.33- 7.39
55	S	1-Chlorooctadecane (S)	526.282	550.085	E3	-4.5	103	0.00	13.63-13.69

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3y85354.d eph3y3347.m Fri Sep 30 14:54:03 2022

6.6.7

6

Run Sequence Report

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G3Y3347 **Method:** MADEP EPH REV 2.1 **Instrument ID:** GC3Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3Y3347-IC3347	3Y85349.D	09/22/22 16:44	n/a	Initial cal 1
G3Y3347-IC3347	3Y85350.D	09/22/22 17:40	n/a	Initial cal 2
G3Y3347-IC3347	3Y85351.D	09/22/22 18:17	n/a	Initial cal 5
G3Y3347-IC3347	3Y85352.D	09/22/22 18:53	n/a	Initial cal 10
G3Y3347-IC3347	3Y85353.D	09/22/22 19:30	n/a	Initial cal 20
G3Y3347-ICC3347	3Y85354.D	09/22/22 20:07	n/a	Initial cal 50
G3Y3347-IC3347	3Y85355.D	09/22/22 20:35	n/a	Initial cal 100
G3Y3347-ICV3347	3Y85356.D	09/22/22 21:12	n/a	Initial cal verification 50
G3Y3347-ICV3347	3Y85357.D	09/22/22 21:49	n/a	Initial cal verification 50

Run Sequence Report

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G3Y3348 **Method:** MADEP EPH REV 2.1 **Instrument ID:** GC3Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3Y3348-CC3347	3Y85358.D	09/25/22 12:08	n/a	Continuing cal 20
ZZZZZZ	3Y85364.D	09/25/22 16:06	OP41814	(unrelated sample)
ZZZZZZ	3Y85365.D	09/25/22 16:43	OP41814	(unrelated sample)
ZZZZZZ	3Y85366.D	09/25/22 17:20	OP41814	(unrelated sample)
ZZZZZZ	3Y85367.D	09/25/22 17:57	OP41814	(unrelated sample)
ZZZZZZ	3Y85368.D	09/25/22 18:34	OP41814	(unrelated sample)
ZZZZZZ	3Y85369.D	09/25/22 19:11	OP41814	(unrelated sample)
ZZZZZZ	3Y85370.D	09/25/22 19:48	OP41814	(unrelated sample)
ZZZZZZ	3Y85371.D	09/25/22 20:24	OP41814	(unrelated sample)
OP41903-MB1	3Y85373.D	09/25/22 21:38	OP41903	Method Blank
OP41903-BS1	3Y85374.D	09/25/22 22:15	OP41903	Blank Spike
OP41903-BSD	3Y85375.D	09/25/22 22:52	OP41903	Blank Spike Duplicate
JD52068-1	3Y85376.D	09/25/22 23:29	OP41903	VDS-WS-02
OP41903-MS	3Y85377.D	09/26/22 00:05	OP41903	Matrix Spike
G3Y3348-CC3347	3Y85381.D	09/26/22 02:33	n/a	Continuing cal 50

Run Sequence Report

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Run ID: G3Y3349 **Method:** MADEP EPH REV 2.1 **Instrument ID:** GC3Y

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
G3Y3349-CC3347	3Y85384.D	09/28/22 15:51	n/a	Continuing cal 20
OP41903-MSD	3Y85387.D	09/28/22 18:03	OP41903	Matrix Spike Duplicate
G3Y3349-CC3347	3Y85388.D	09/28/22 19:16	n/a	Continuing cal 50

GC/LC Semi-volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns 09/27/22 16:27

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.7,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:15:47 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
24) S	2-Fluorobiphenyl (S)	8.230	3262290	5.585	ug/L	
26) S	o-Terphenyl (S)	12.483f	4851653	7.610	ug/L	m
55) S	1-Chlorooctadecane (S)	13.617f	801834	1.524	ug/L	m
Target Compounds						
1) T	1,2,3-Trimethylbenzene	4.629	477328	0.722	ug/l	m
2) T	Naphthalene	6.455	2228060	3.237	ug/L	m
4) T	2-Methylnaphthalene	7.587	7589408	11.238	ug/L	
5) T	Acenaphthylene	9.071f	2141589	3.252	ug/l	m
6) T	Acenaphthene	9.335f	2639582	3.760	ug/l	
8) T	Fluorene	10.218	2947848	4.449	ug/l	m
9) T	Phenanthrene	11.803	3197172	4.965	ug/l	m
10) T	Anthracene	11.889	1032378	1.611	ug/l	m
11) T	Fluoranthene	13.847	2512851	4.028	ug/l	m
12) T	Pyrene	14.229	1565704	2.446	ug/l	m
14) T	Benzo(a)Anthracene	16.499f	3027817	4.888	ug/l	m
16) T	Benzo(b)Fluoranthene	18.410	550620	0.913	ug/l	m
17) T	Benzo(k)Fluoranthene	18.453	369303	0.631	ug/l	m
18) T	Benzo(a)Pyrene	18.926	285279	0.487	ug/l	m
23) H	C11-C22 Aromatics (Un...	13.720	1803555771	2857.303	ug/L	
51) H	C9-C18 Aliphatics	7.580	728134671	1193.028	ug/L	
52) H	C19-C36 Aliphatics	17.380	3209698490	5465.721	ug/L	

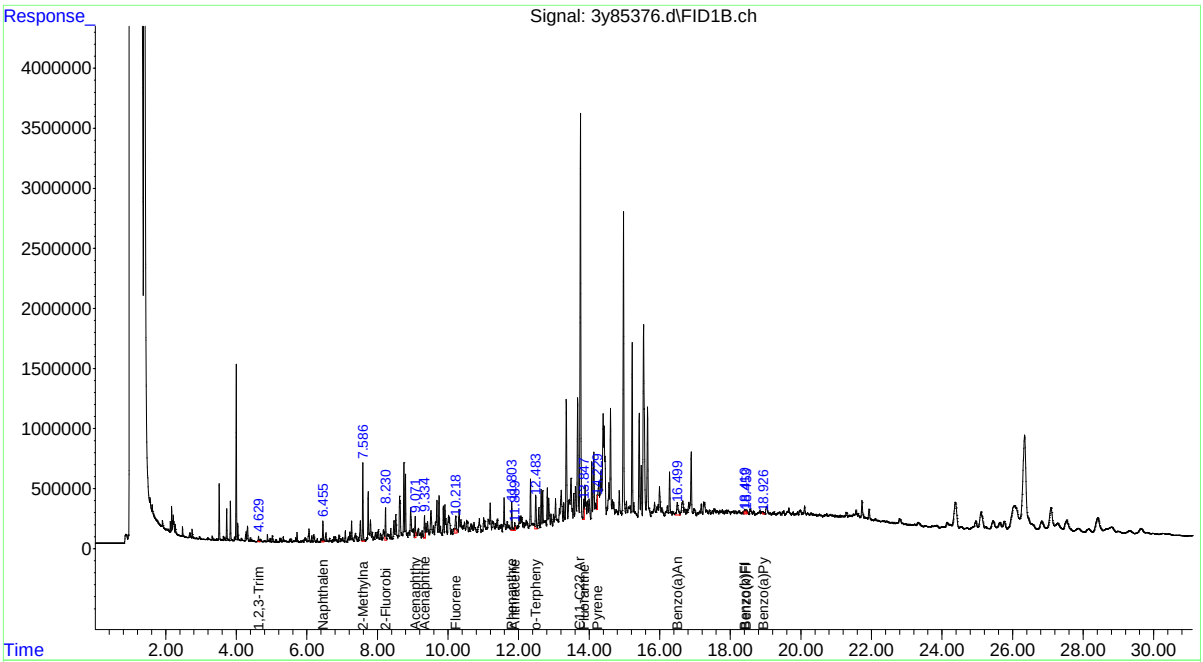
(f)=RT Delta > 1/2 Window (m)=manual int.

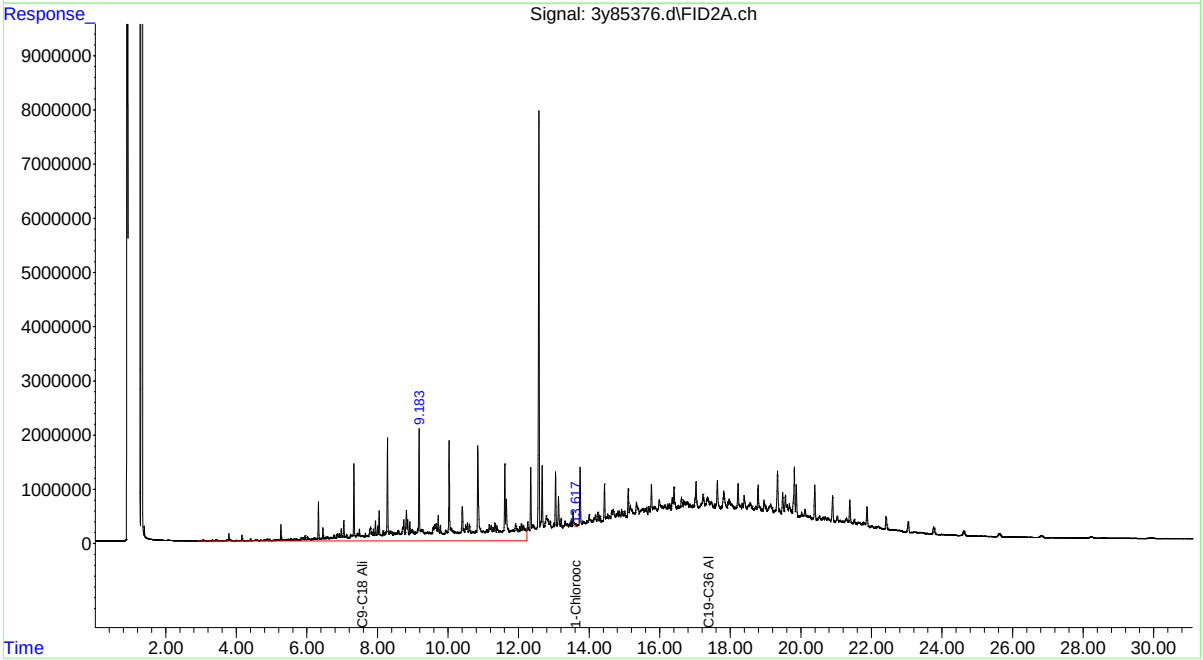
Quantitation Report (QT Reviewed)

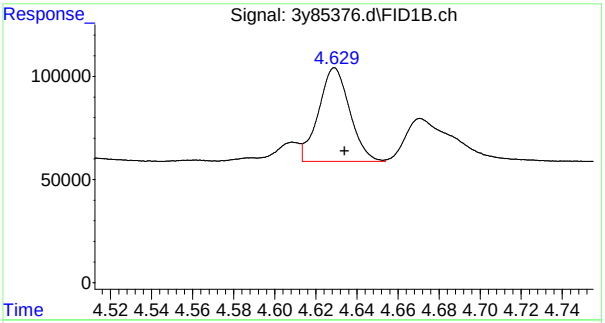
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.7,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:15:47 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

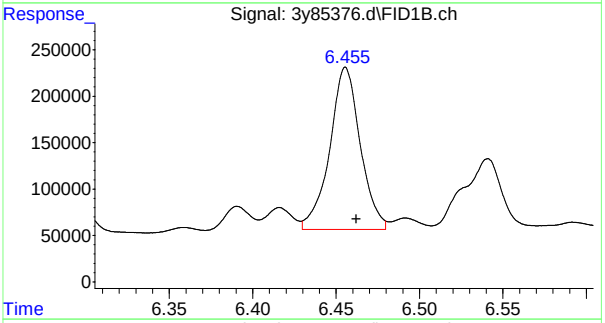






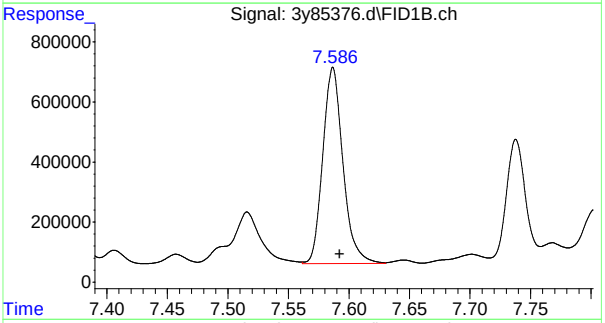
#1 1,2,3-Trimethylbenzene

R.T.: 4.629 min
Delta R.T.: -0.005 min
Response: 477328
Conc: 0.72 ug/l m



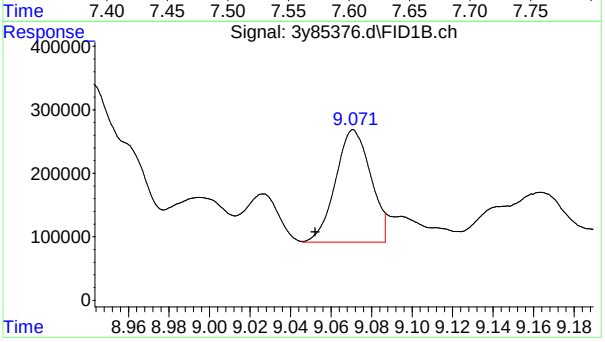
#2 Naphthalene

R.T.: 6.455 min
Delta R.T.: -0.007 min
Response: 2228060
Conc: 3.24 ug/L m



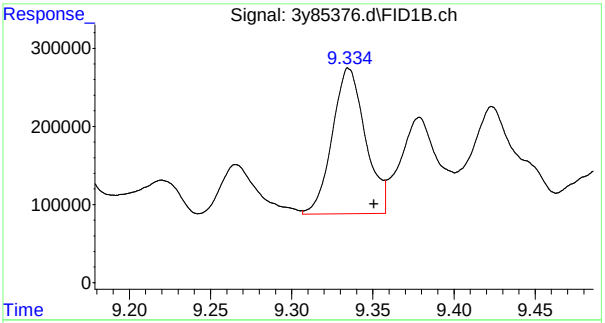
#4 2-Methylnaphthalene

R.T.: 7.587 min
Delta R.T.: -0.005 min
Response: 7589408
Conc: 11.24 ug/L



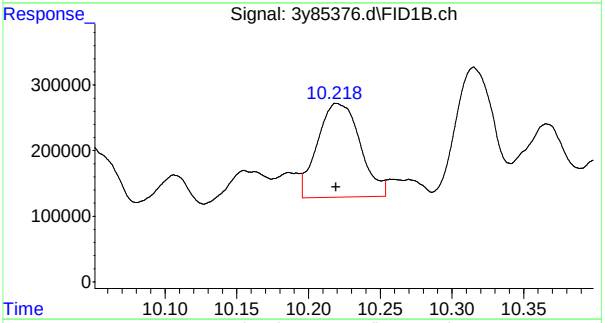
#5 Acenaphthylene

R.T.: 9.071 min
Delta R.T.: 0.018 min
Response: 2141589
Conc: 3.25 ug/l m



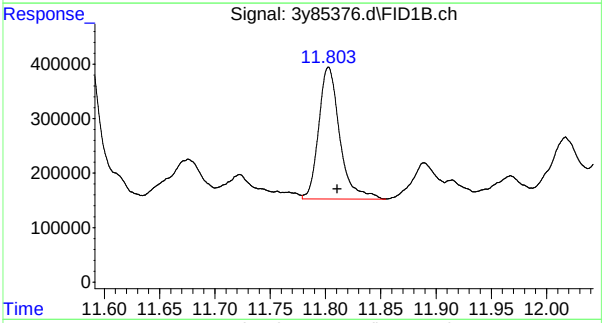
#6 Acenaphthene

R.T.: 9.335 min
Delta R.T.: -0.015 min
Response: 2639582
Conc: 3.76 ug/l



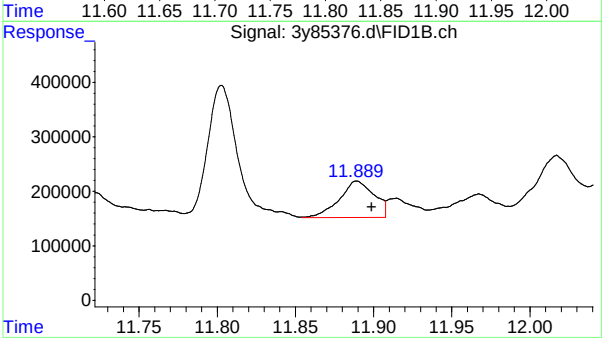
#8 Fluorene

R.T.: 10.218 min
Delta R.T.: 0.000 min
Response: 2947848
Conc: 4.45 ug/l m



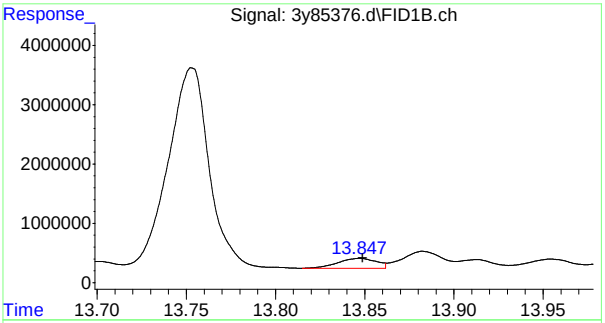
#9 Phenanthrene

R.T.: 11.803 min
Delta R.T.: -0.008 min
Response: 3197172
Conc: 4.96 ug/l m



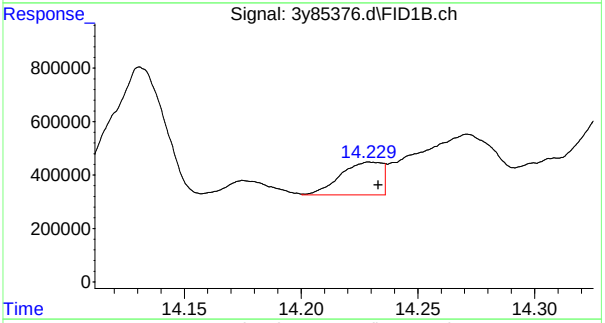
#10 Anthracene

R.T.: 11.889 min
Delta R.T.: -0.010 min
Response: 1032378
Conc: 1.61 ug/l m



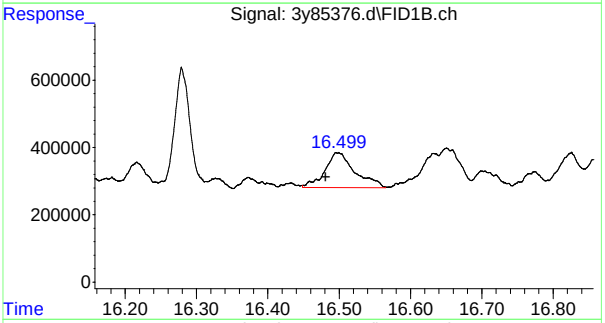
#11 Fluoranthene

R.T.: 13.847 min
Delta R.T.: -0.002 min
Response: 2512851
Conc: 4.03 ug/l m



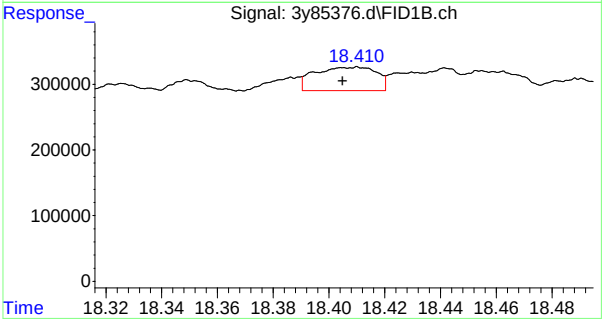
#12 Pyrene

R.T.: 14.229 min
Delta R.T.: -0.004 min
Response: 1565704
Conc: 2.45 ug/l m



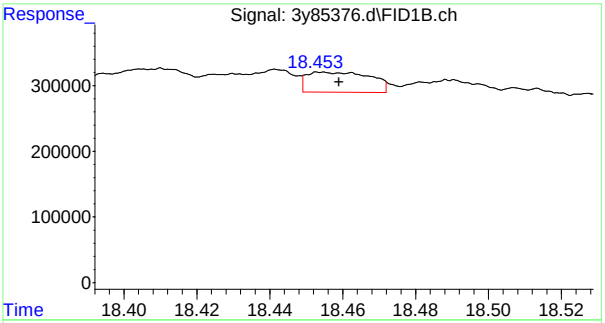
#14 Benzo(a)Anthracene

R.T.: 16.499 min
Delta R.T.: 0.018 min
Response: 3027817
Conc: 4.89 ug/l m



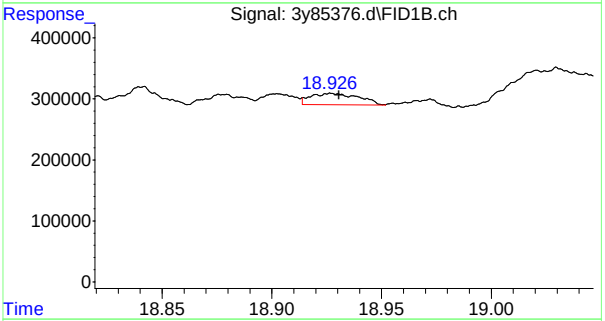
#16 Benzo(b)Fluoranthene

R.T.: 18.410 min
Delta R.T.: 0.005 min
Response: 550620
Conc: 0.91 ug/l m



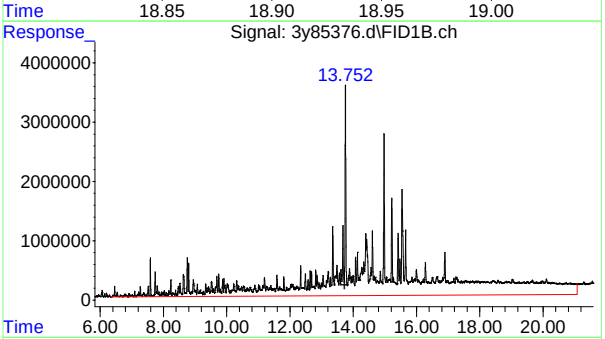
#17 Benzo(k)Fluoranthene

R.T.: 18.453 min
Delta R.T.: -0.006 min
Response: 369303
Conc: 0.63 ug/l m



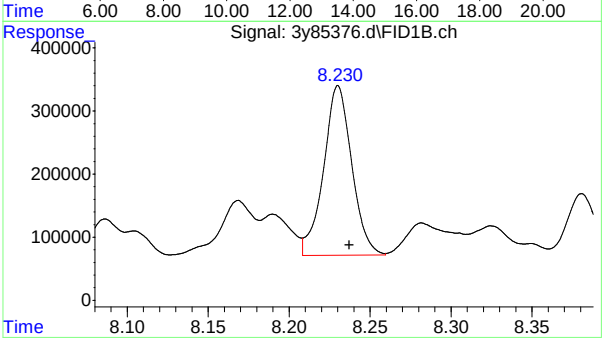
#18 Benzo(a)Pyrene

R.T.: 18.926 min
Delta R.T.: -0.004 min
Response: 285279
Conc: 0.49 ug/l m



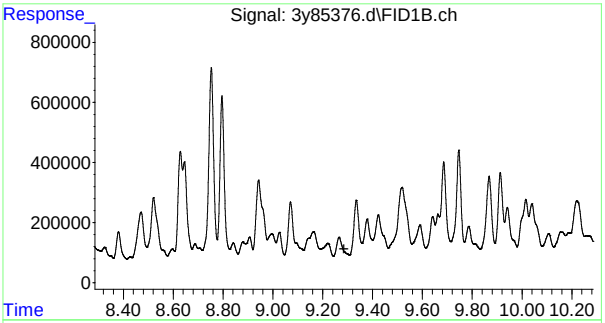
#23 C11-C22 Aromatics (Unadj.)

R.T.: 13.720 min
Delta R.T.: 0.000 min
Response: 1803555771
Conc: 2857.30 ug/L



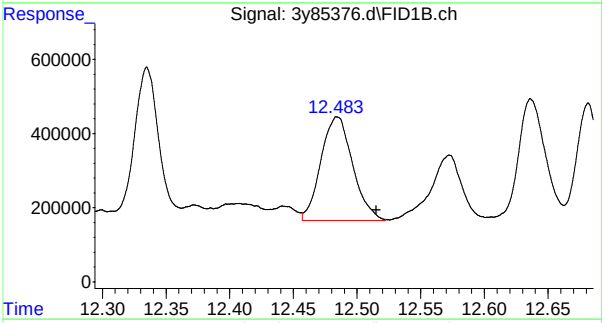
#24 2-Fluorobiphenyl (S)

R.T.: 8.230 min
Delta R.T.: -0.007 min
Response: 3262290
Conc: 5.59 ug/L



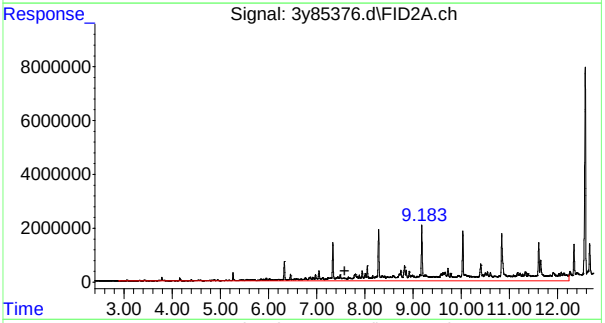
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.285 min
Response: 0
Conc: N.D.



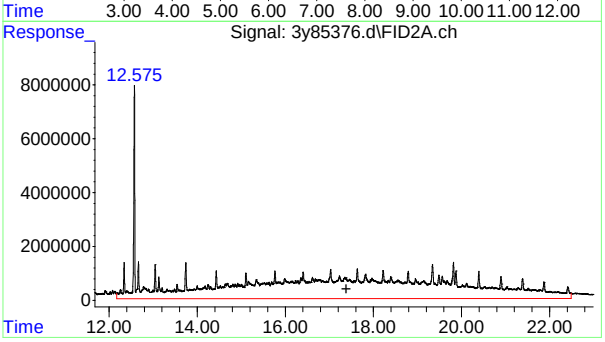
#26 o-Terphenyl (S)

R.T.: 12.483 min
Delta R.T.: -0.032 min
Response: 4851653
Conc: 7.61 ug/L m



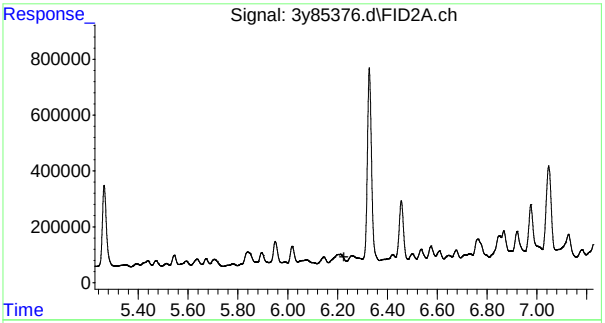
#51 C9-C18 Aliphatics

R.T.: 7.580 min
Delta R.T.: 0.000 min
Response: 728134671
Conc: 1193.03 ug/L



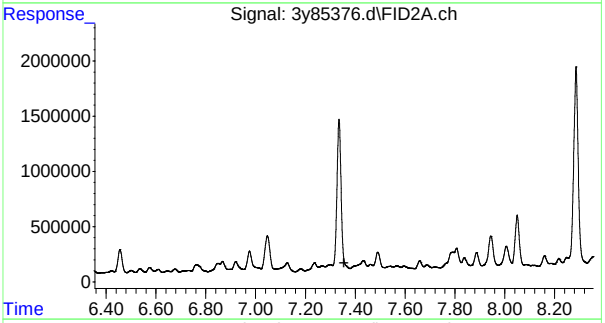
#52 C19-C36 Aliphatics

R.T.: 17.380 min
Delta R.T.: 0.000 min
Response: 3209698490
Conc: 5465.72 ug/L



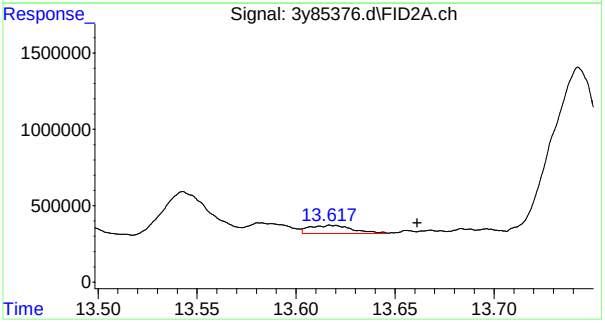
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.225 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.354 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.617 min
Delta R.T.: -0.044 min
Response: 801834
Conc: 1.52 ug/L m

Manual Integration Approval Summary

Sample Number: JD52068-1 **Method:** MADEP EPH REV 2.1
Lab FileID: 3Y85376.D **Analyst approved:** 09/27/22 16:25 Gwendolyn Burns
Injection Time: 09/25/22 23:29 **Supervisor approved:** 09/27/22 16:27 Gwendolyn Burns

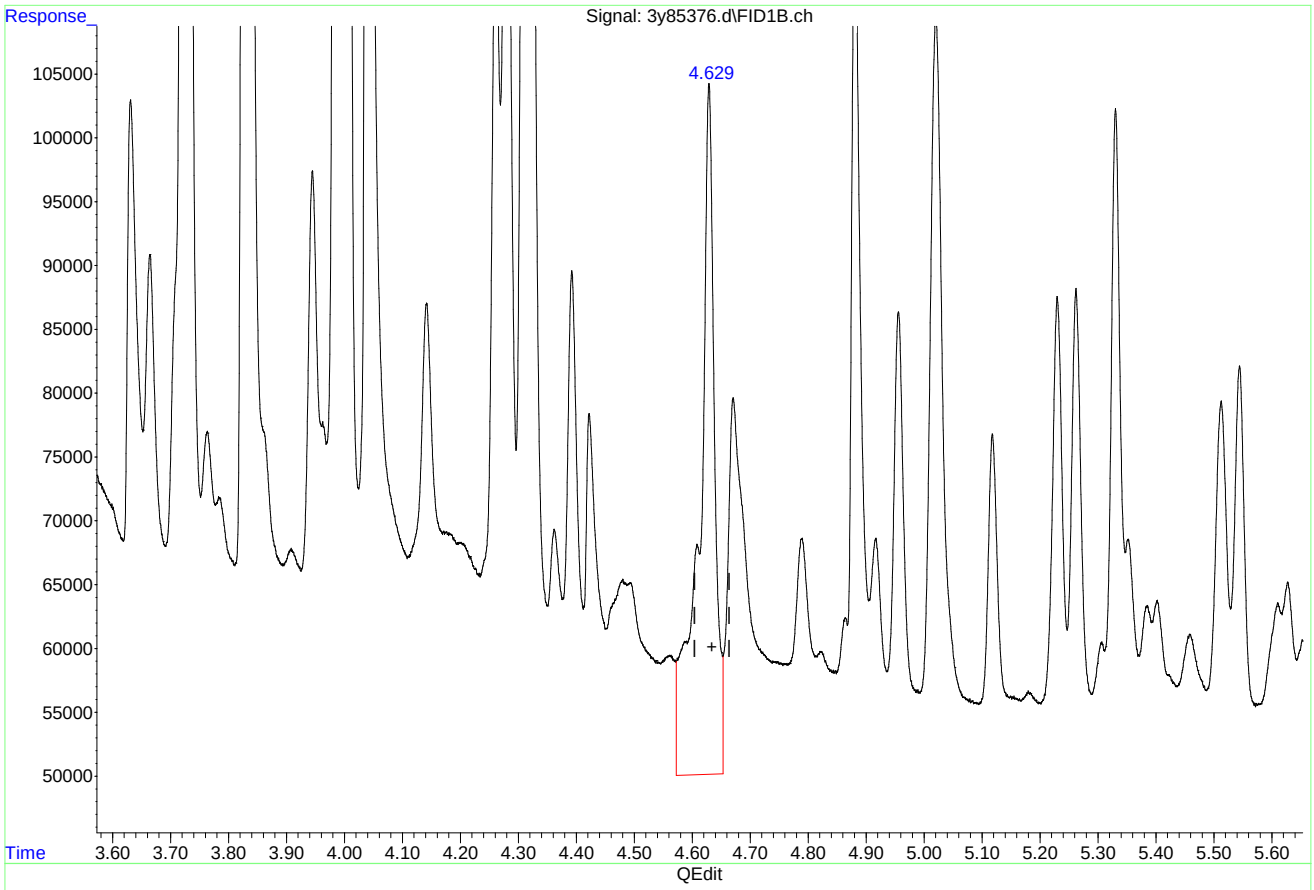
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3	1	6.46	Poorly defined baseline
Acenaphthylene	208-96-8	1	9.07	Poorly defined baseline
Fluorene	86-73-7	1	10.22	Poorly defined baseline
Phenanthrene	85-01-8	1	11.80	Poorly defined baseline
Anthracene	120-12-7	1	11.89	Poorly defined baseline
o-Terphenyl	84-15-1	1	12.48	Poorly defined baseline
1-Chlorooctadecane	3386-33-2	2	13.62	Poorly defined baseline
Fluoranthene	206-44-0	1	13.85	Poorly defined baseline
Pyrene	129-00-0	1	14.23	Poorly defined baseline
Benzo(a)anthracene	56-55-3	1	16.50	Poorly defined baseline
Benzo(b)fluoranthene	205-99-2	1	18.41	Poorly defined baseline
Benzo(k)fluoranthene	207-08-9	1	18.45	Poorly defined baseline
Benzo(a)pyrene	50-32-8	1	18.93	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.629min 1.492 ug/l

response 987103

(+) = Expected Retention Time

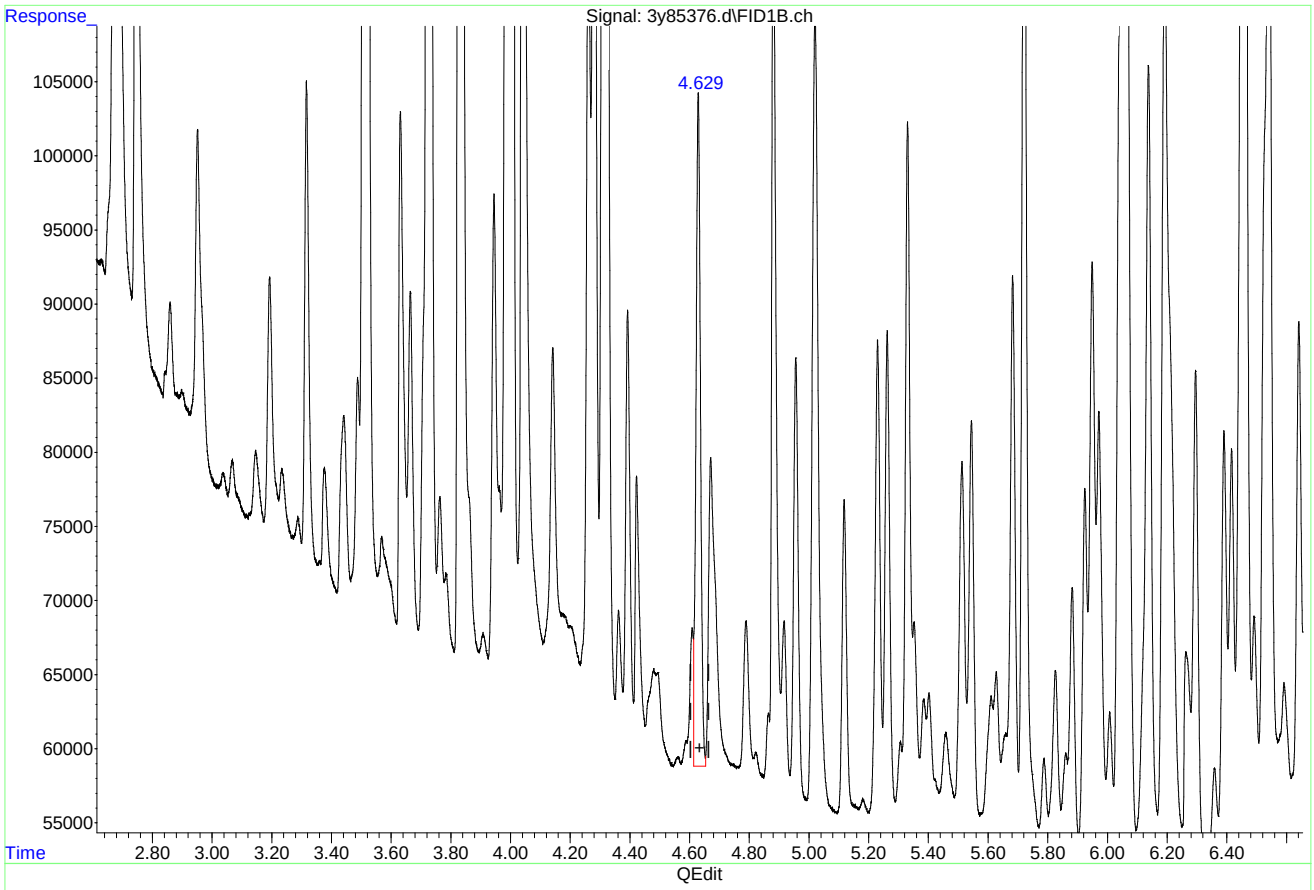
eph3y3347.m Tue Sep 27 16:08:48 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.629min 0.722 ug/l m

response 477328

(+) = Expected Retention Time

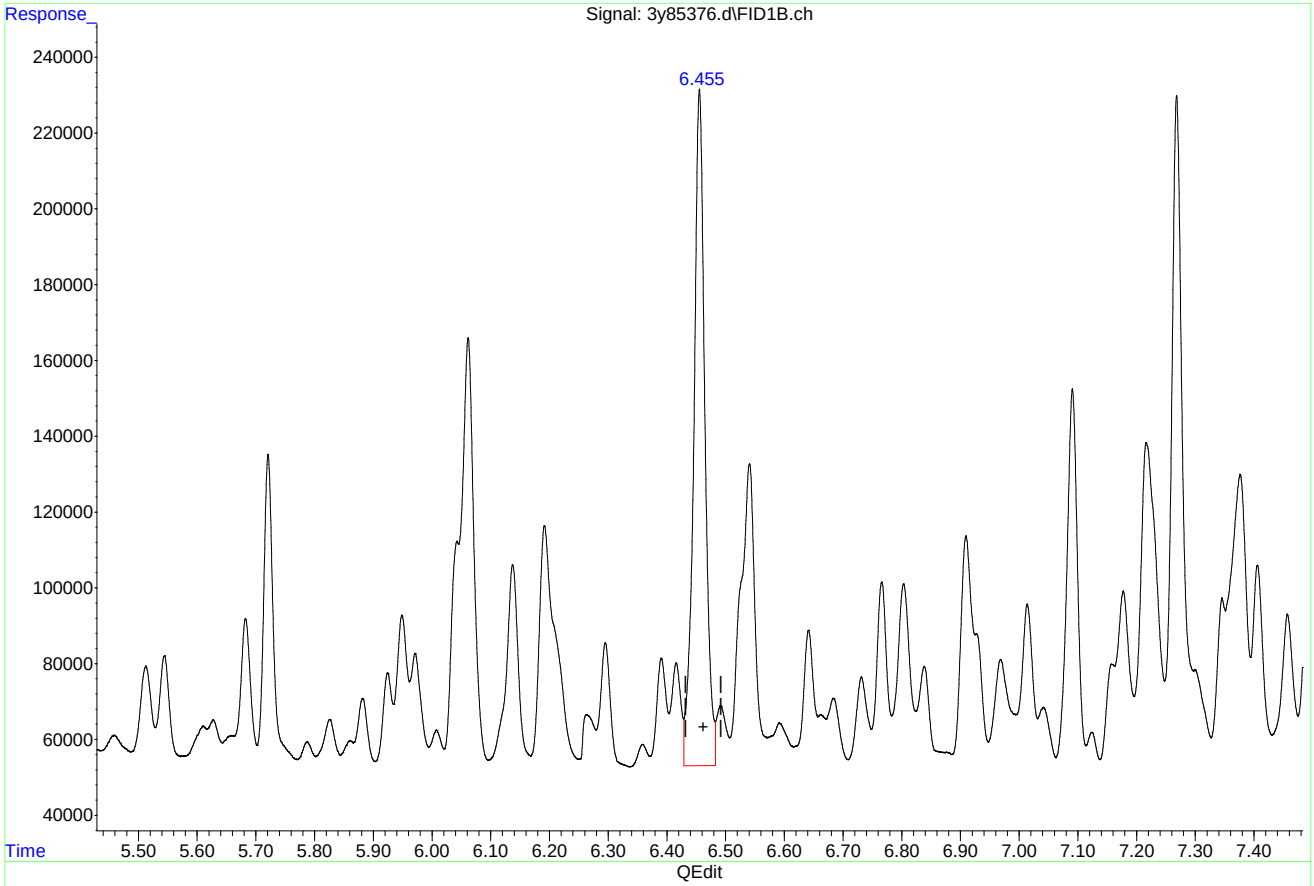
eph3y3347.m Tue Sep 27 16:08:56 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  11:29 pm
Operator  : thomasl
Sample    : jd52068-1
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 22   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(2) Naphthalene (T)

6.456min 3.427 ug/L

response 2358932

(+) = Expected Retention Time

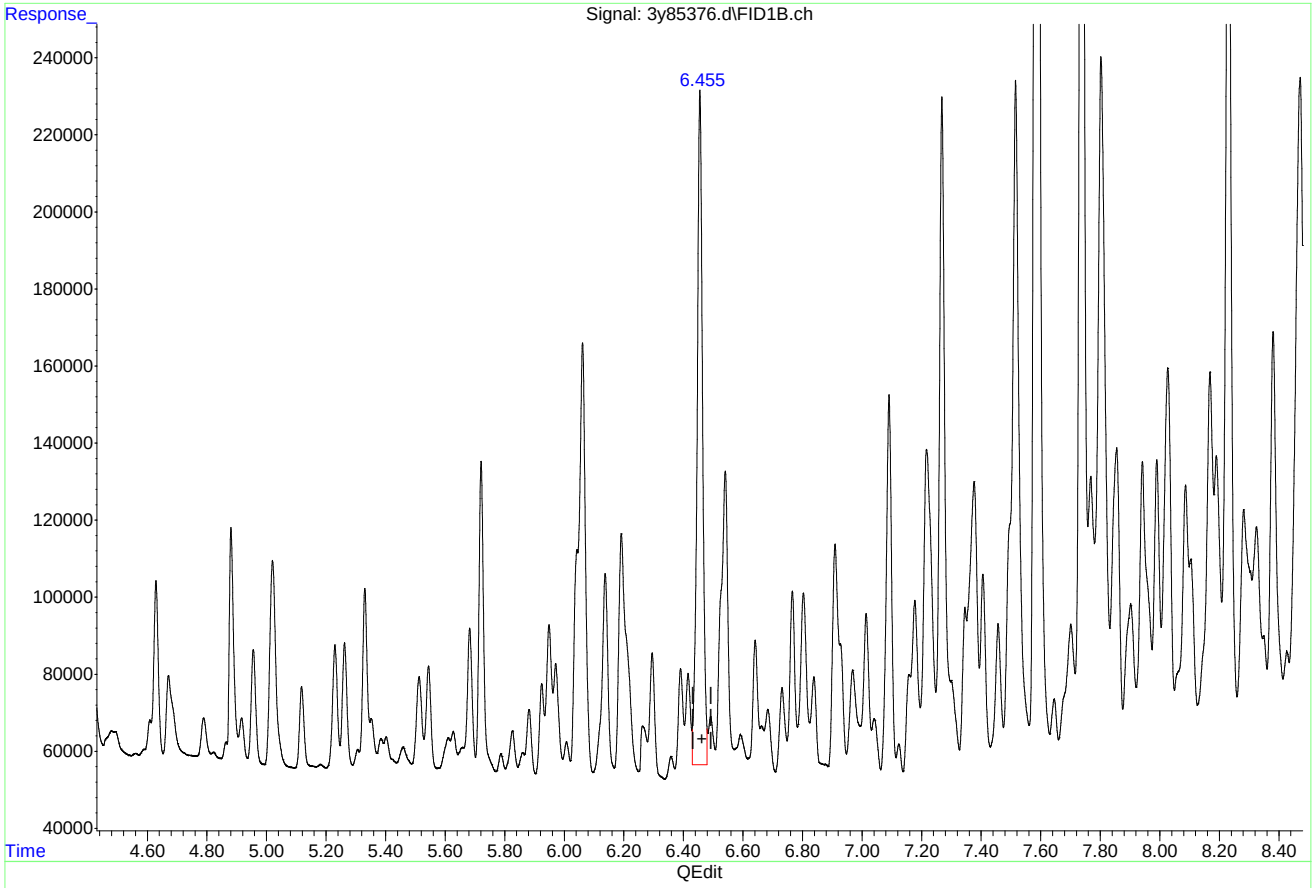
eph3y3347.m Tue Sep 27 16:08:59 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(2) Naphthalene (T)

6.455min 3.237 ug/L m

response 2228060

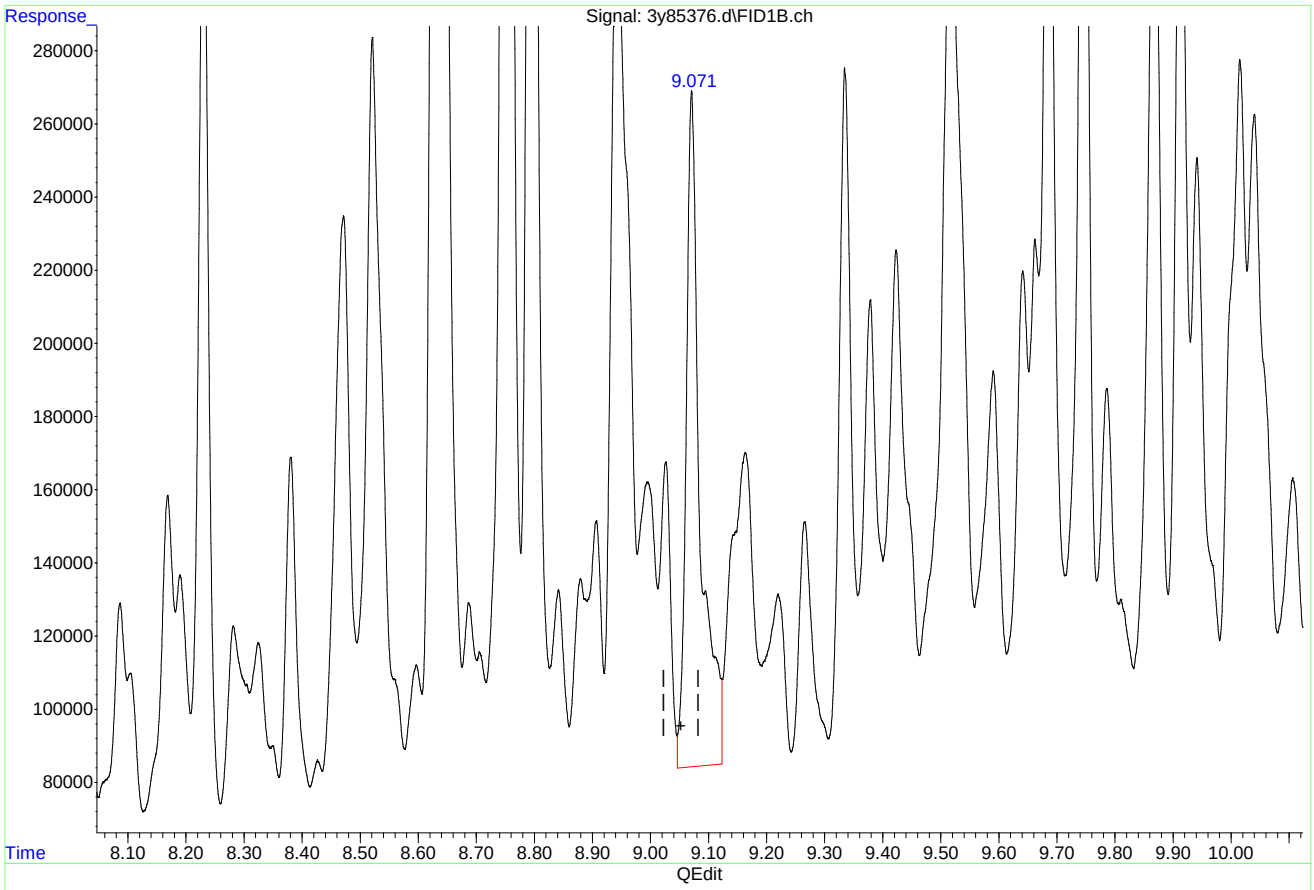
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.071min 4.703 ug/l

response 3097381

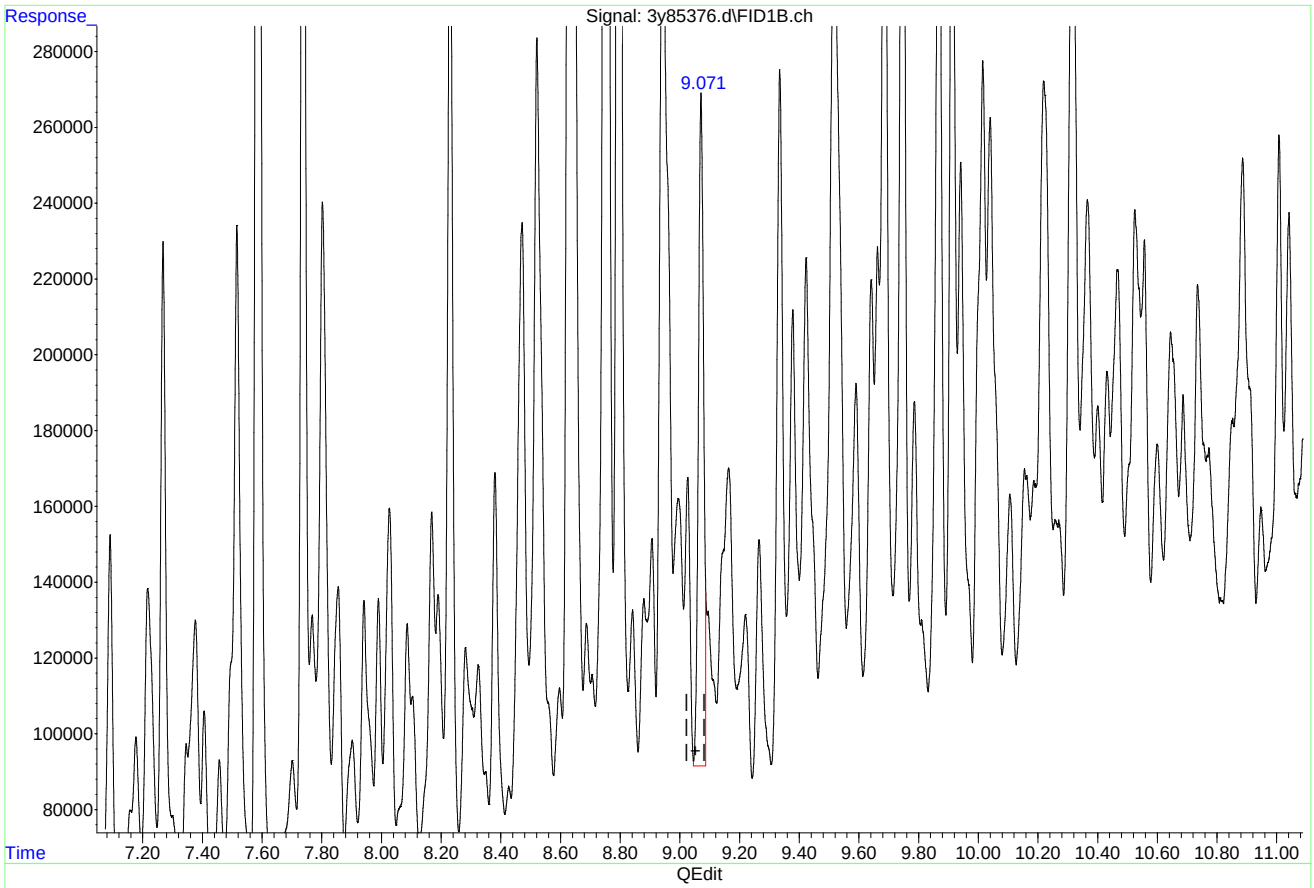
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.071min 3.252 ug/l m

response 2141589

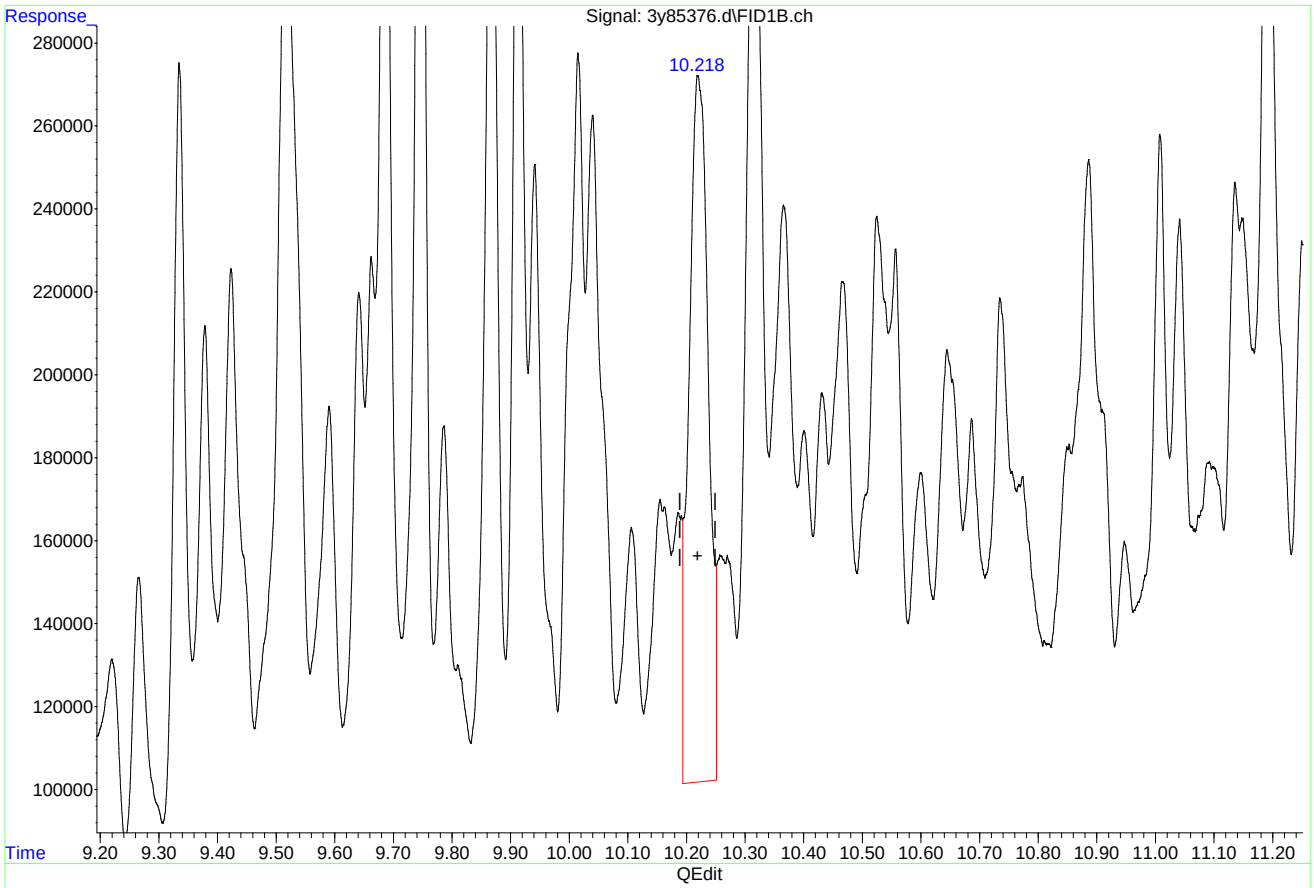
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.220min 5.900 ug/l

response 3909317

(+) = Expected Retention Time

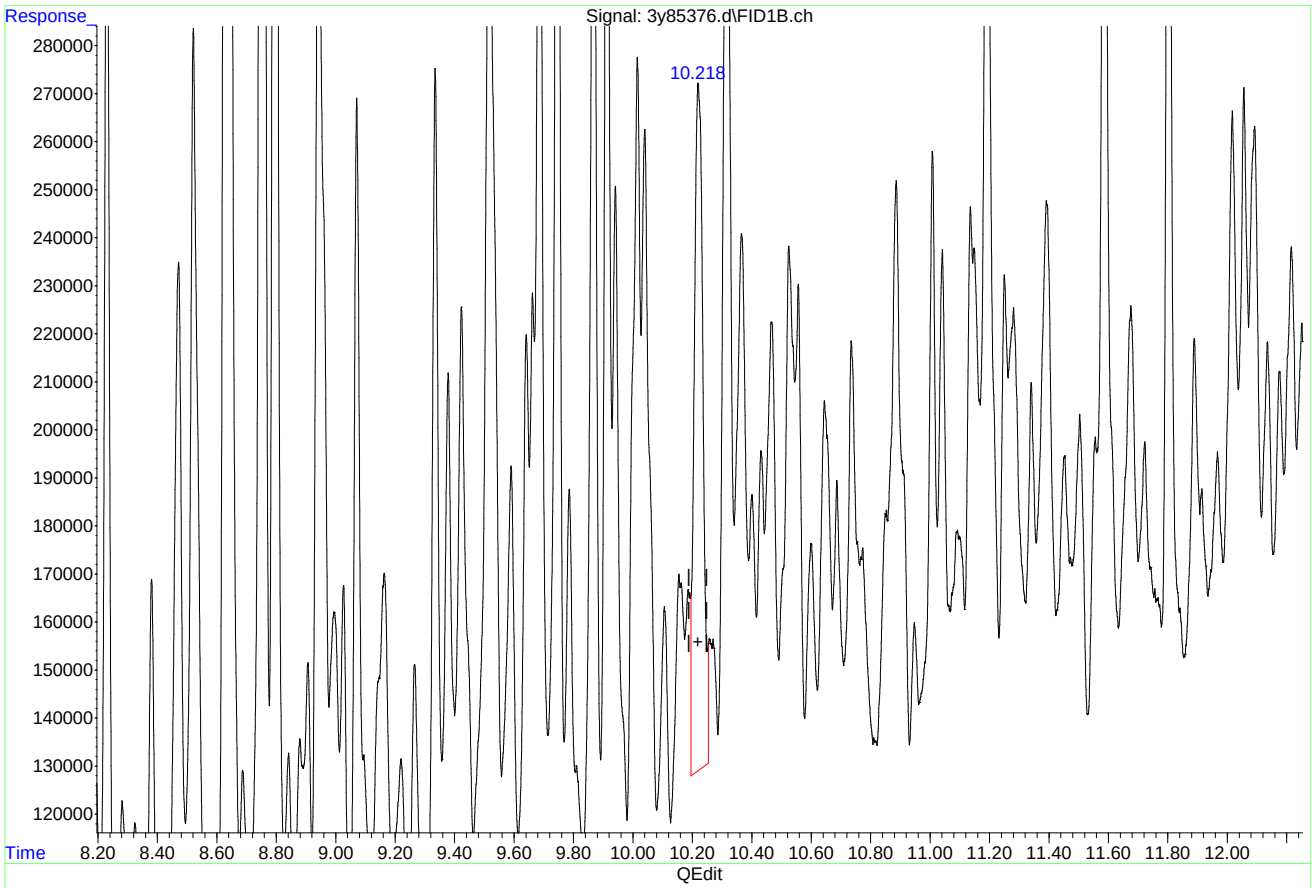
eph3y3347.m Tue Sep 27 16:09:22 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.218min 4.449 ug/l m

response 2947848

(+) = Expected Retention Time

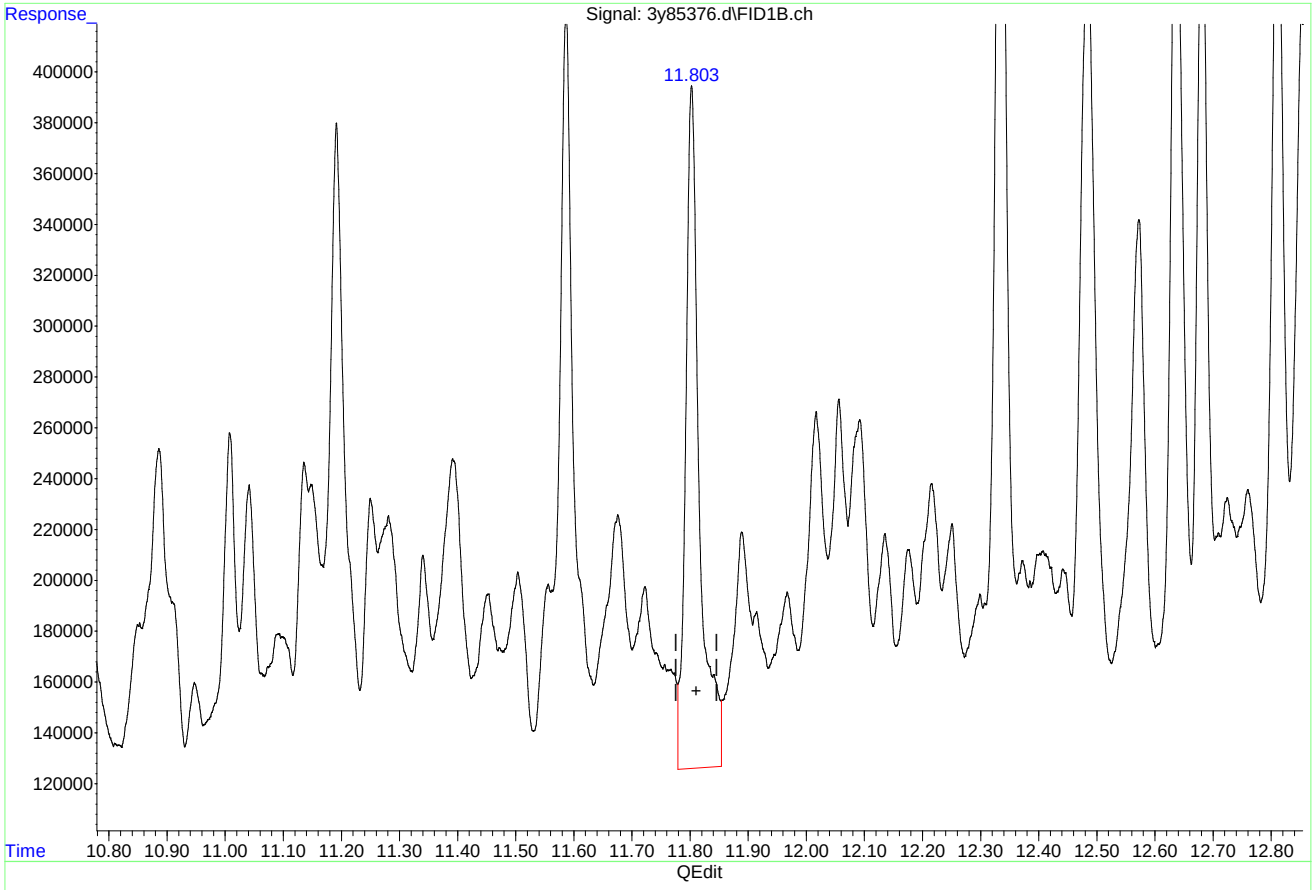
eph3y3347.m Tue Sep 27 16:09:41 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.803min 6.810 ug/l

response 4385516

(+) = Expected Retention Time

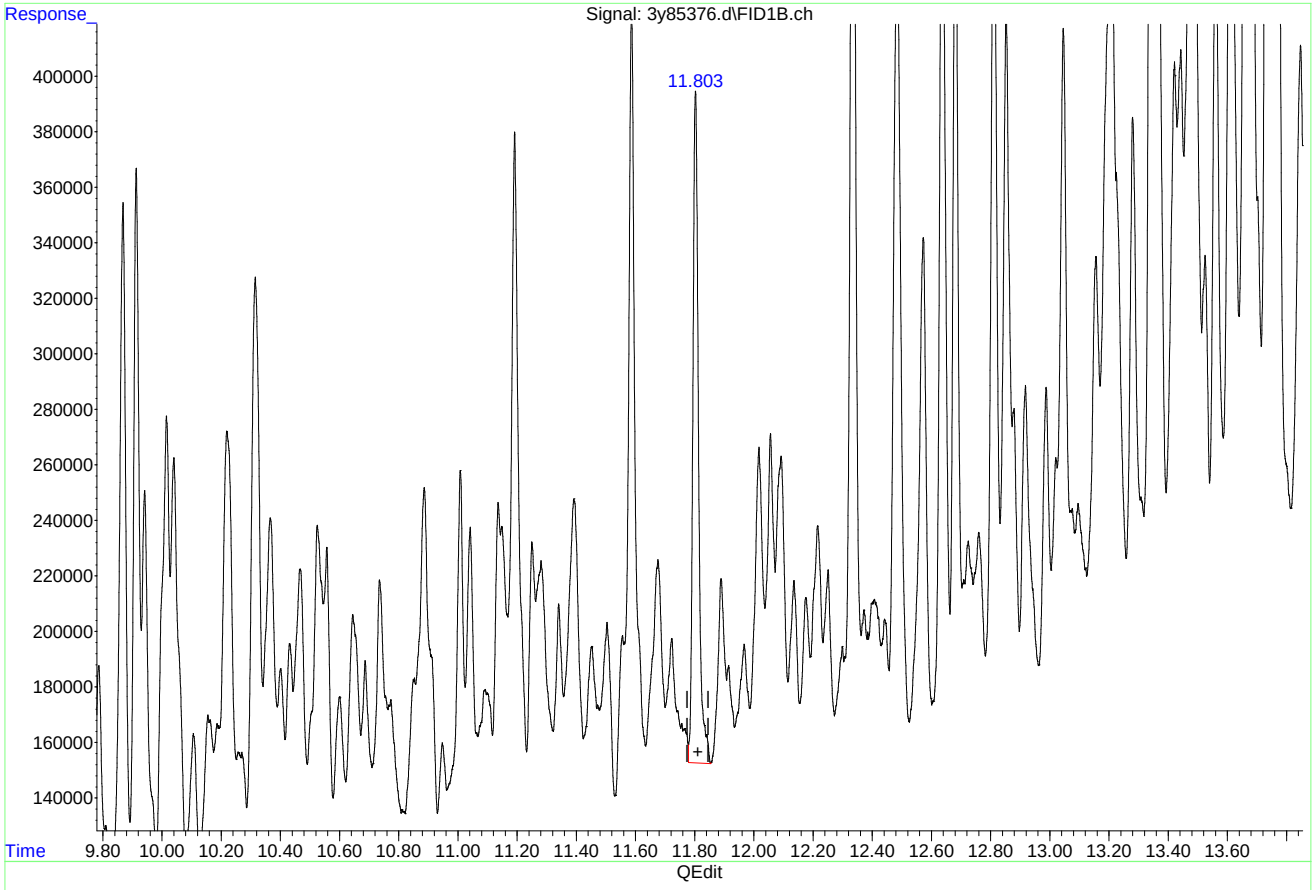
eph3y3347.m Tue Sep 27 16:09:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.803min 4.965 ug/l m

response 3197172

(+) = Expected Retention Time

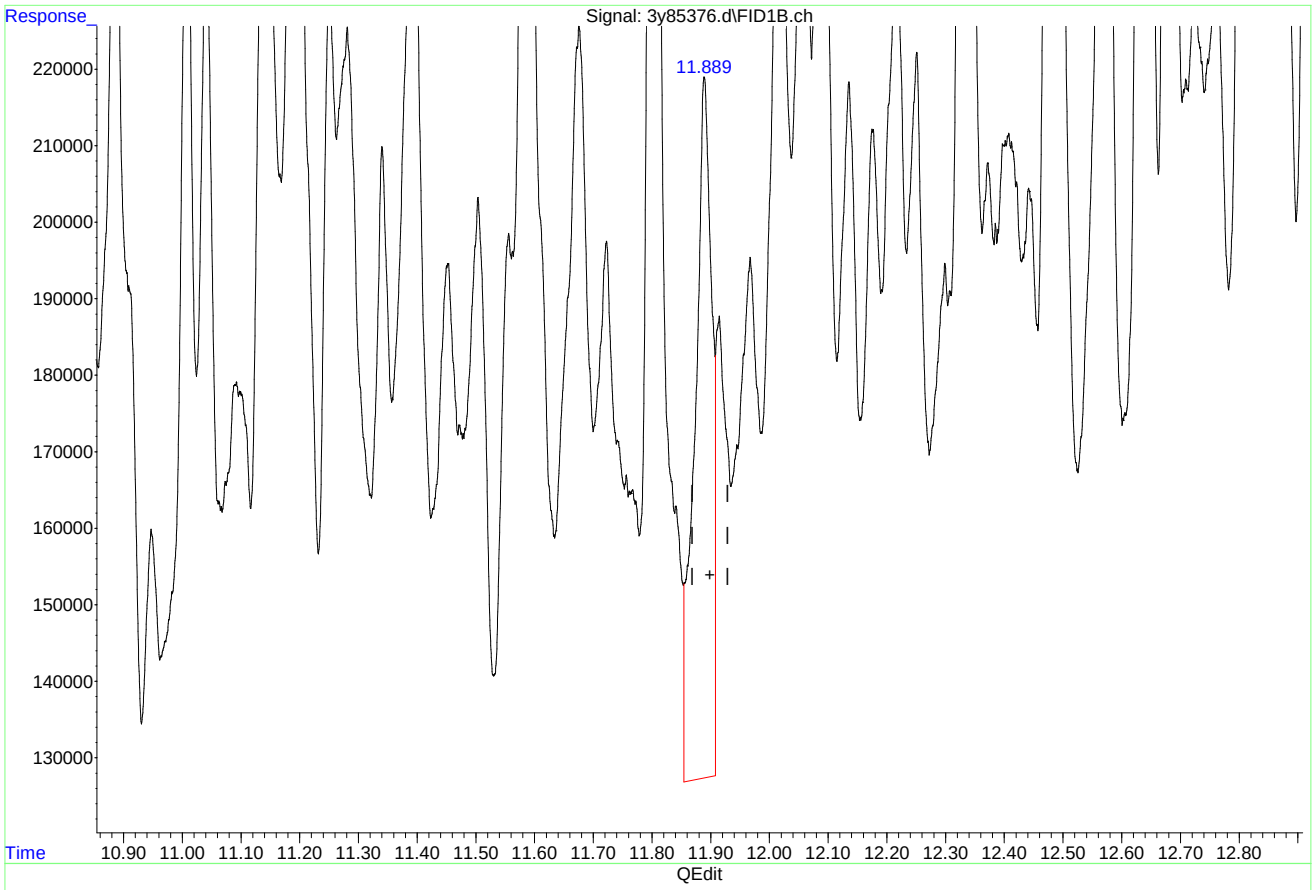
eph3y3347.m Tue Sep 27 16:09:51 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(10) Anthracene (T)

11.889min 2.871 ug/l

response 1840207

(+) = Expected Retention Time

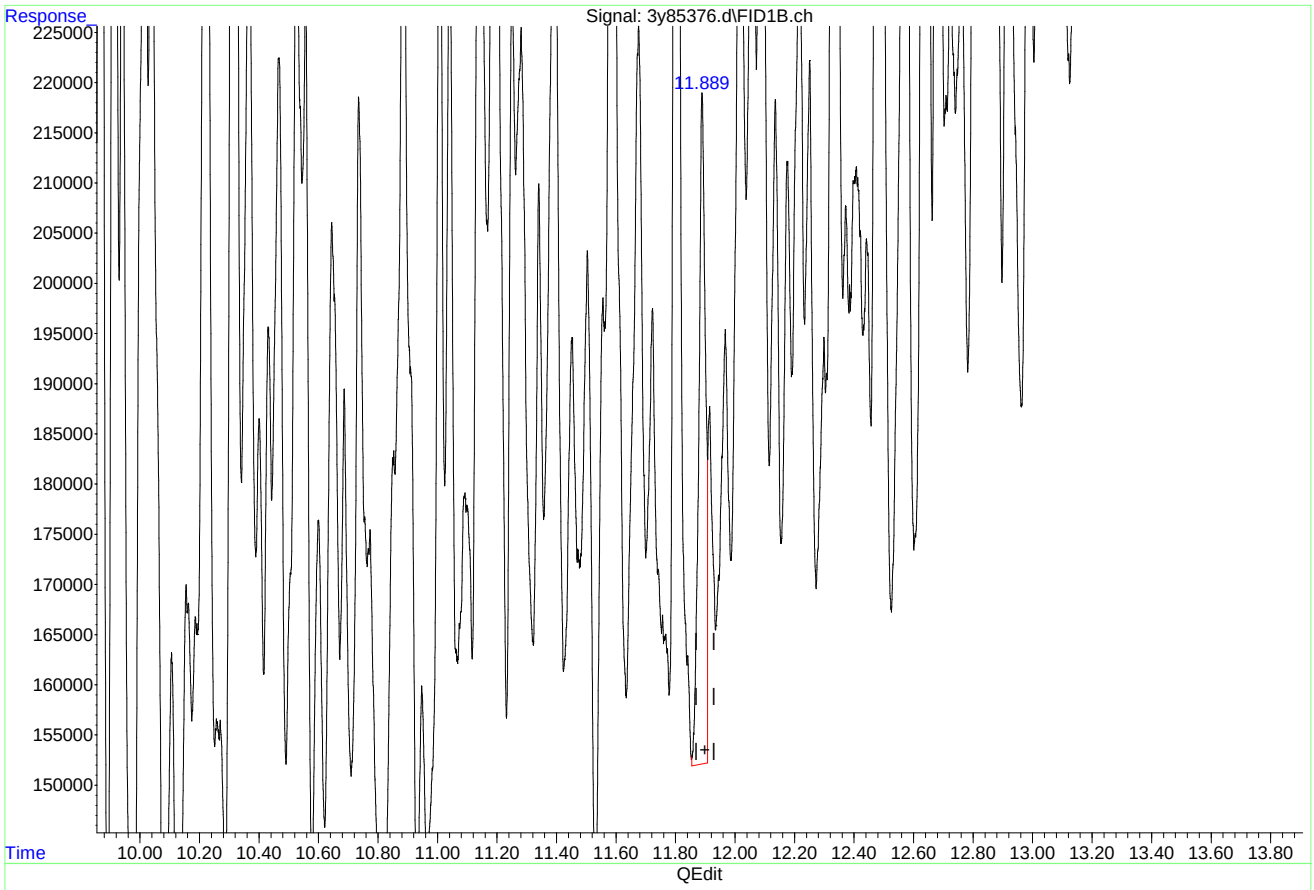
eph3y3347.m Tue Sep 27 16:09:53 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(10) Anthracene (T)

11.889min 1.611 ug/l m

response 1032378

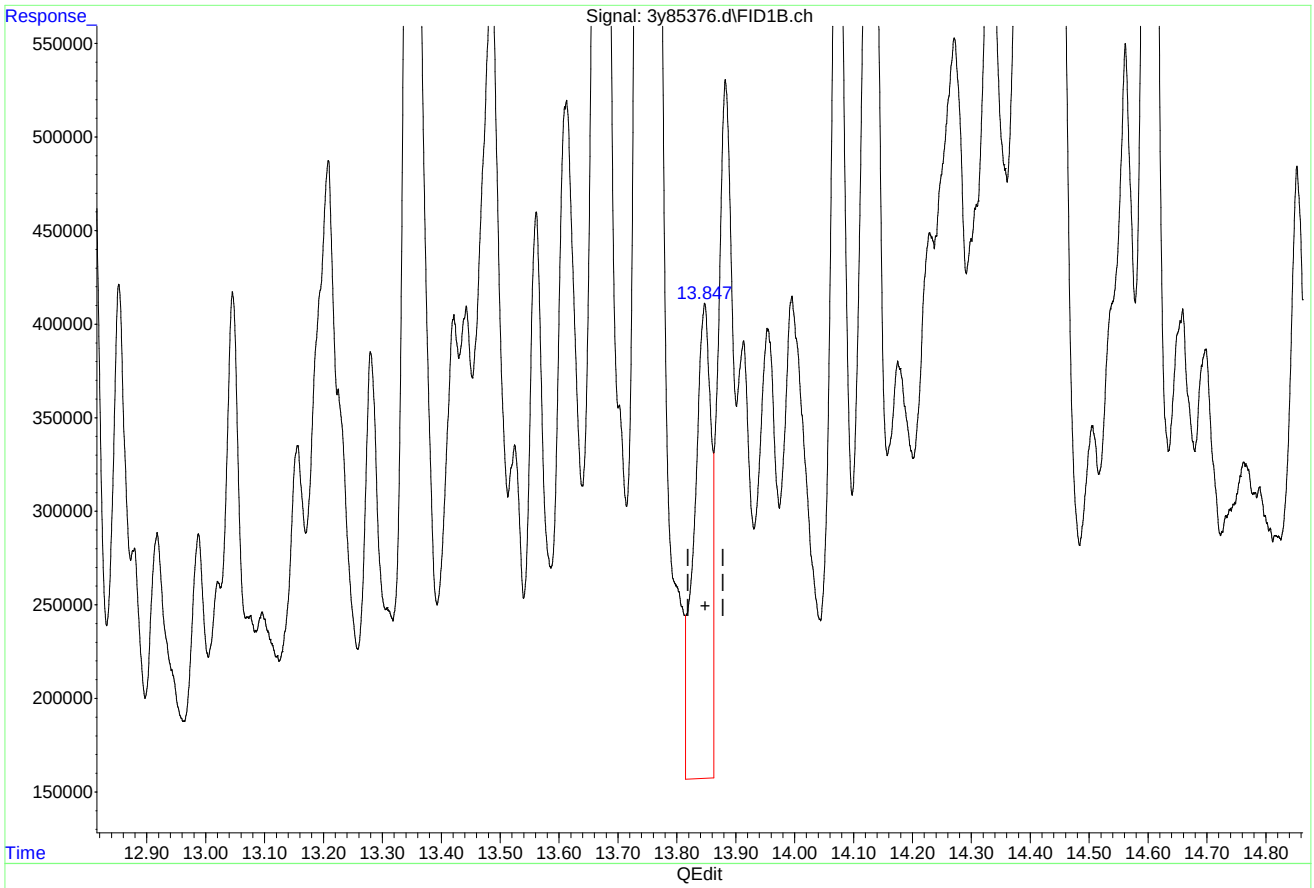
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(11) Fluoranthene (T)

13.847min 8.030 ug/l

response 5008970

(+) = Expected Retention Time

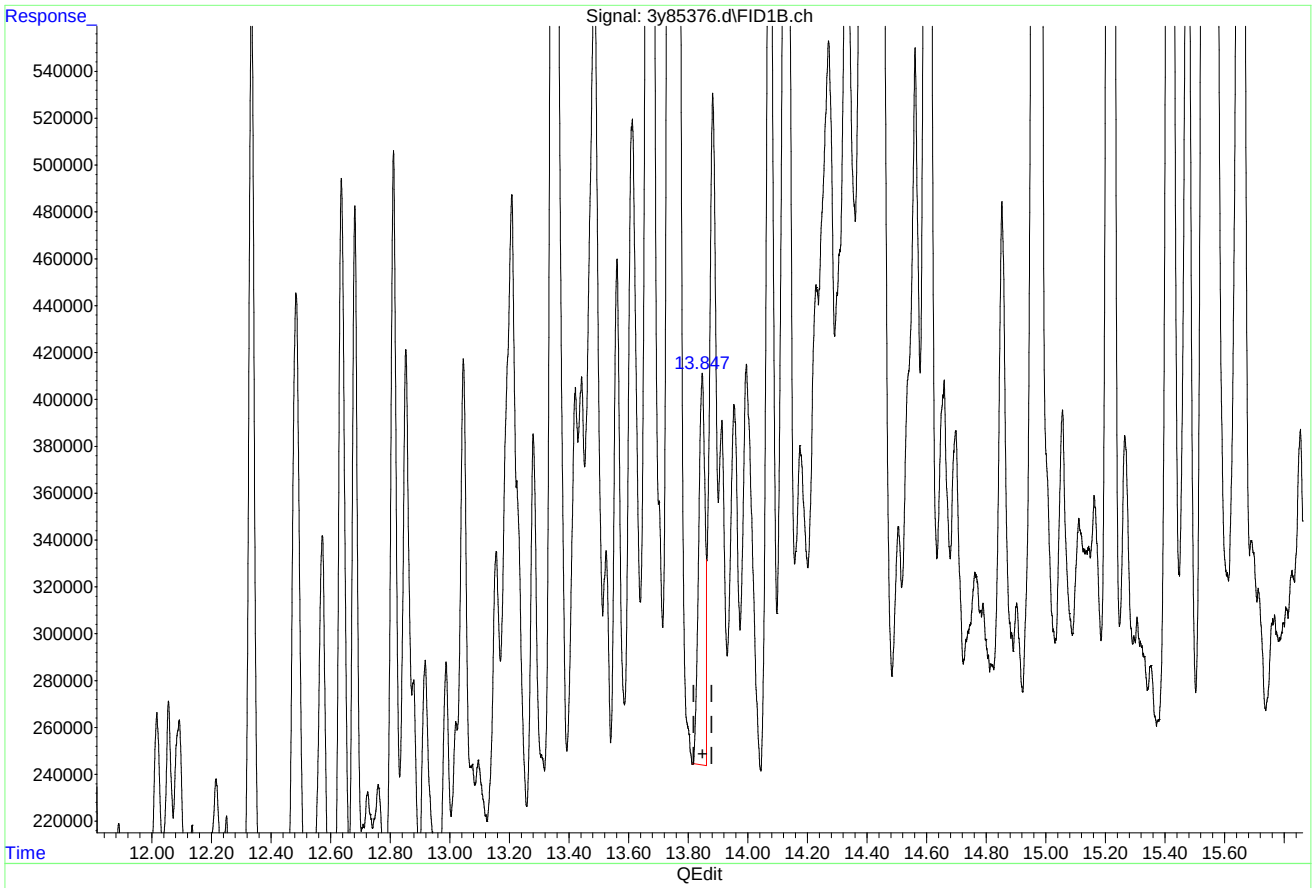
eph3y3347.m Tue Sep 27 16:10:03 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(11) Fluoranthene (T)

13.847min 4.028 ug/l m

response 2512851

(+) = Expected Retention Time

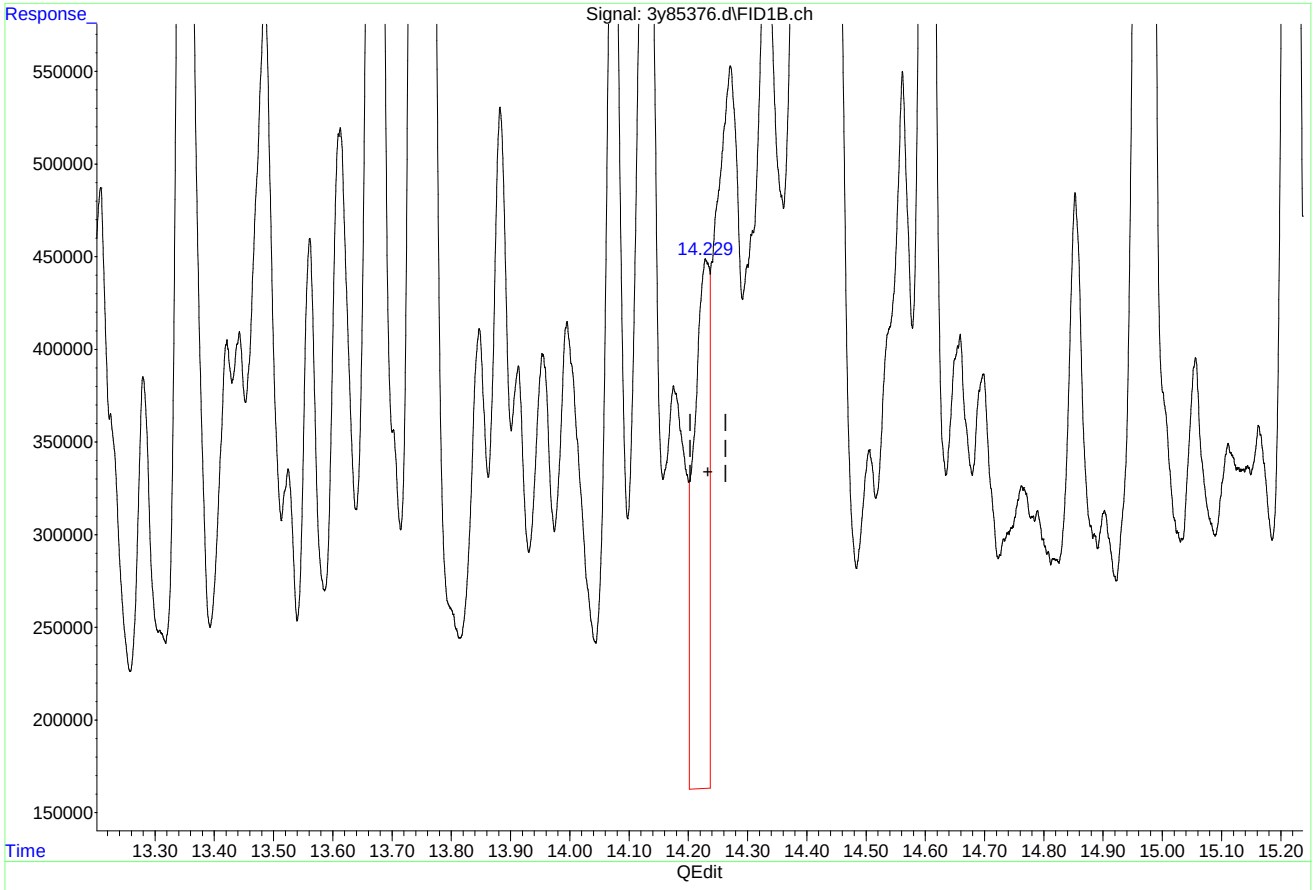
eph3y3347.m Tue Sep 27 16:10:08 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.230min 7.852 ug/l

response 5026052

(+) = Expected Retention Time

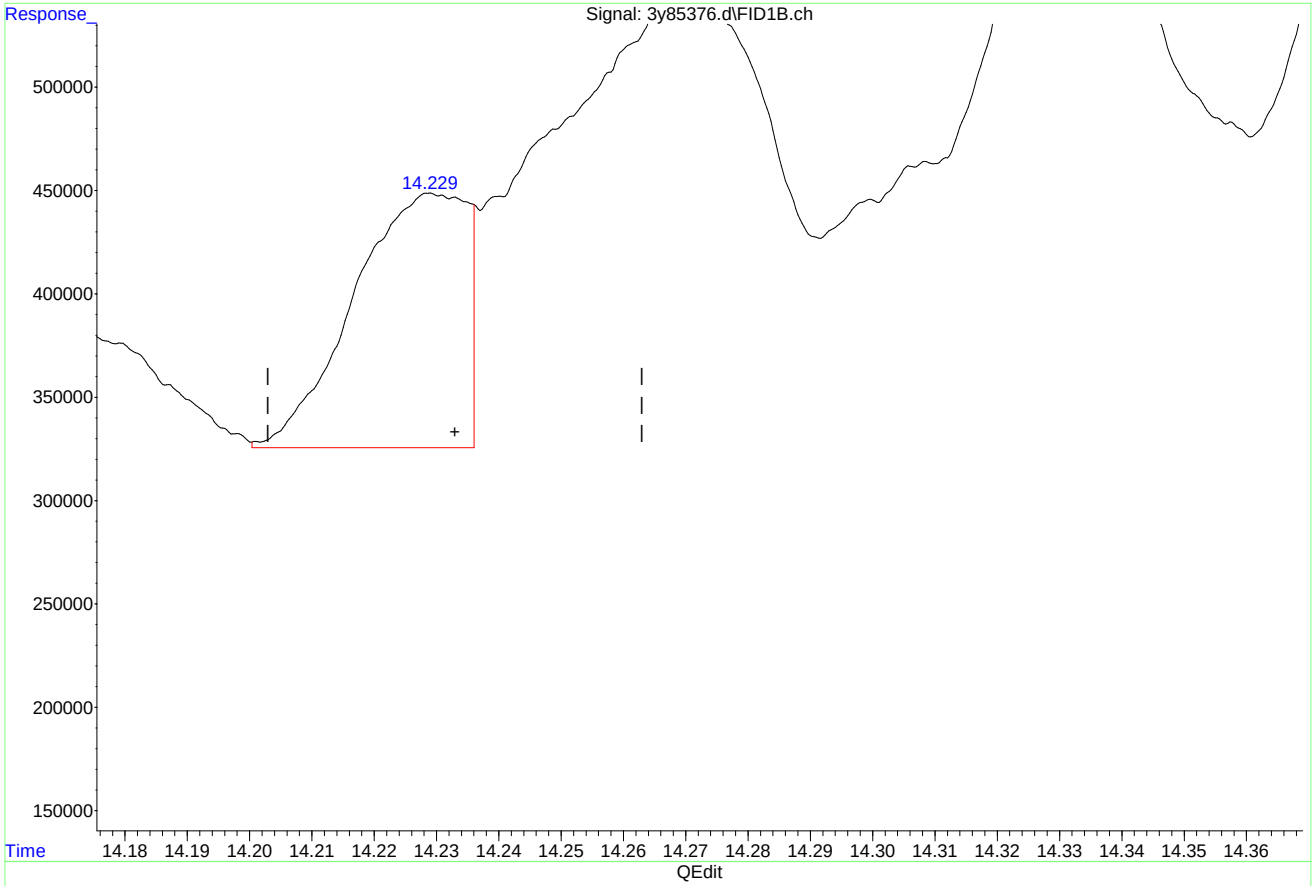
eph3y3347.m Tue Sep 27 16:10:13 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.229min 2.446 ug/l m

response 1565704

(+) = Expected Retention Time

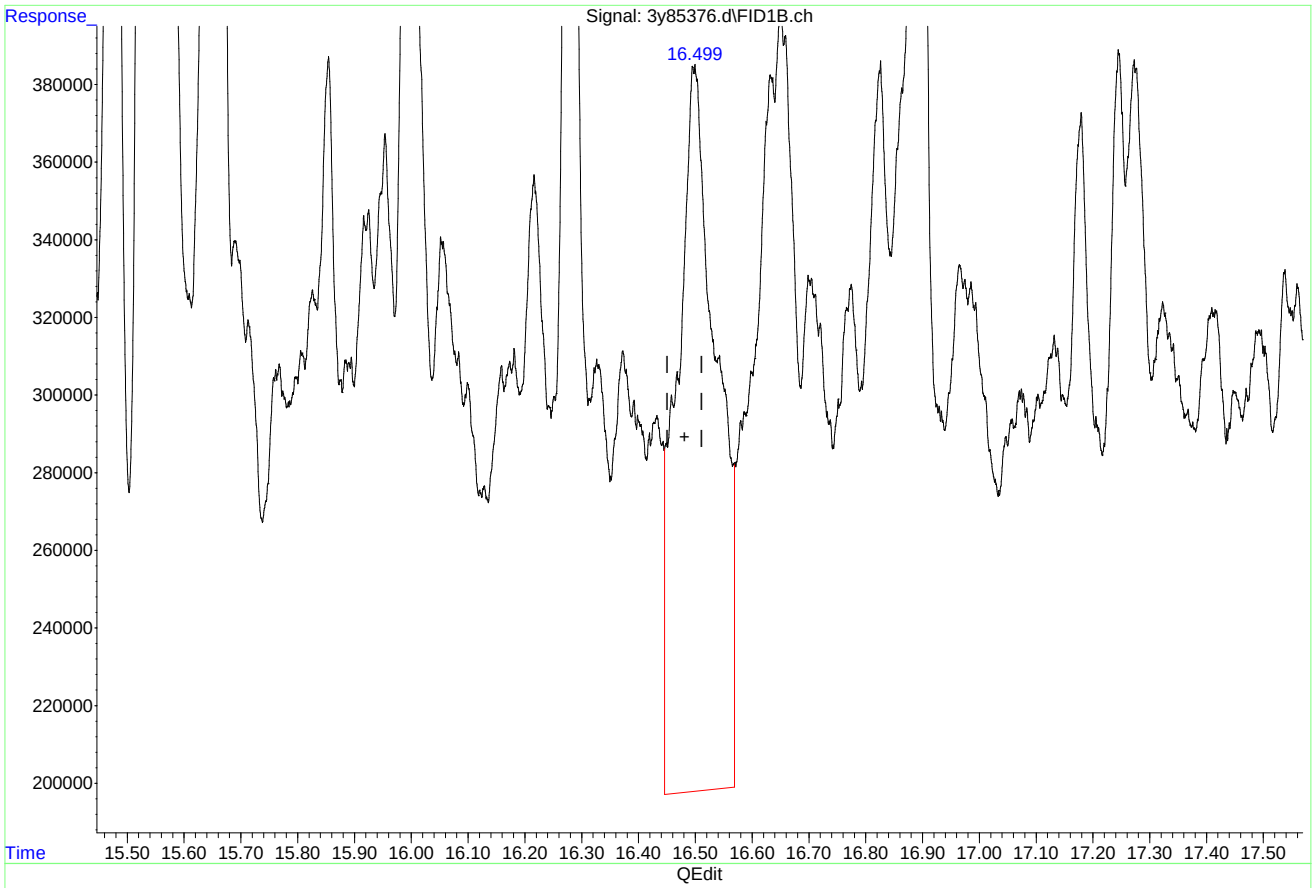
eph3y3347.m Tue Sep 27 16:10:18 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  11:29 pm
Operator  : thomasl
Sample    : jd52068-1
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 22   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(14) Benzo(a)Anthracene (T)

16.498min 14.788 ug/l

response 9160278

(+) = Expected Retention Time

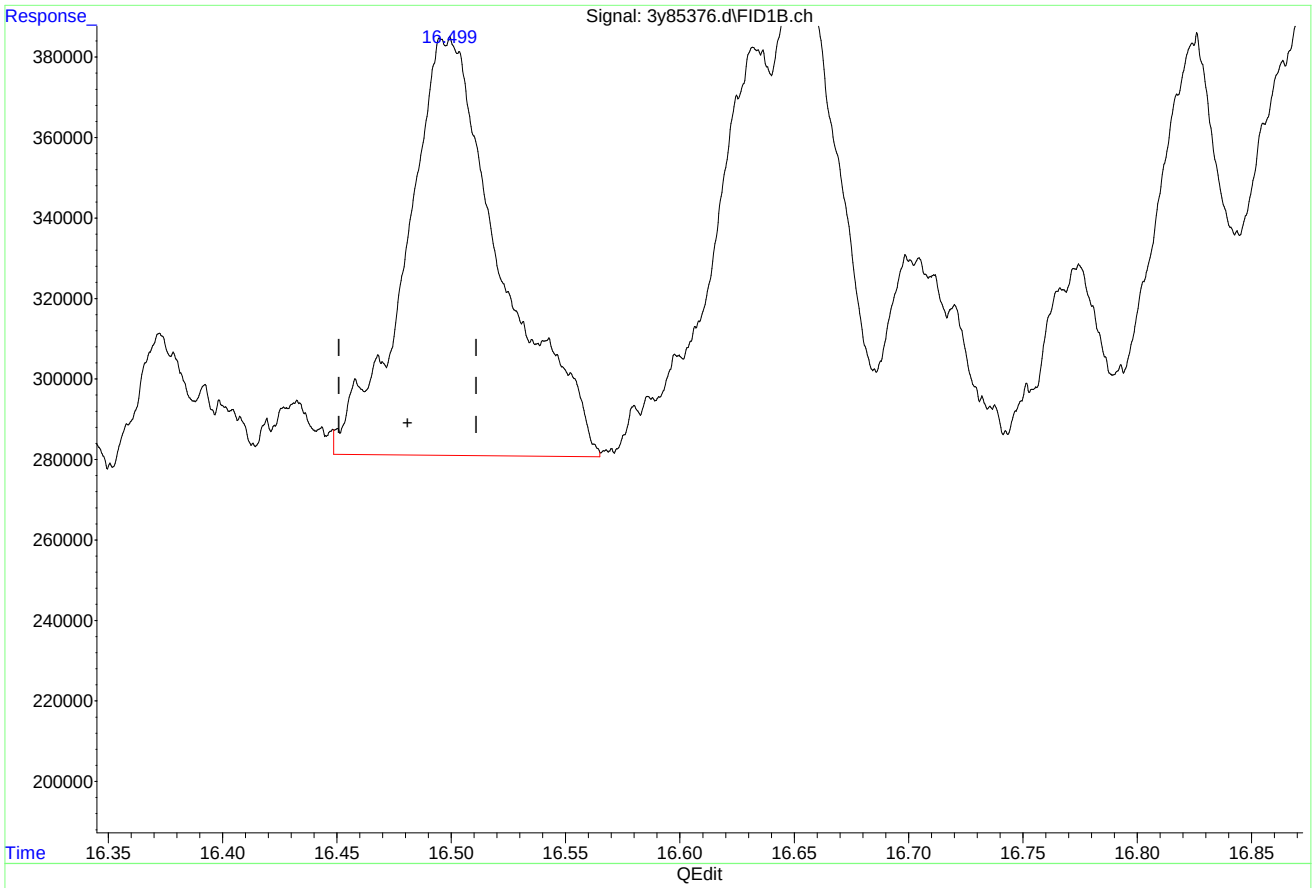
eph3y3347.m Tue Sep 27 16:10:23 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  11:29 pm
Operator  : thomasl
Sample    : jd52068-1
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 22   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(14) Benzo(a)Anthracene (T)

16.499min 4.888 ug/l m

response 3027817

(+) = Expected Retention Time

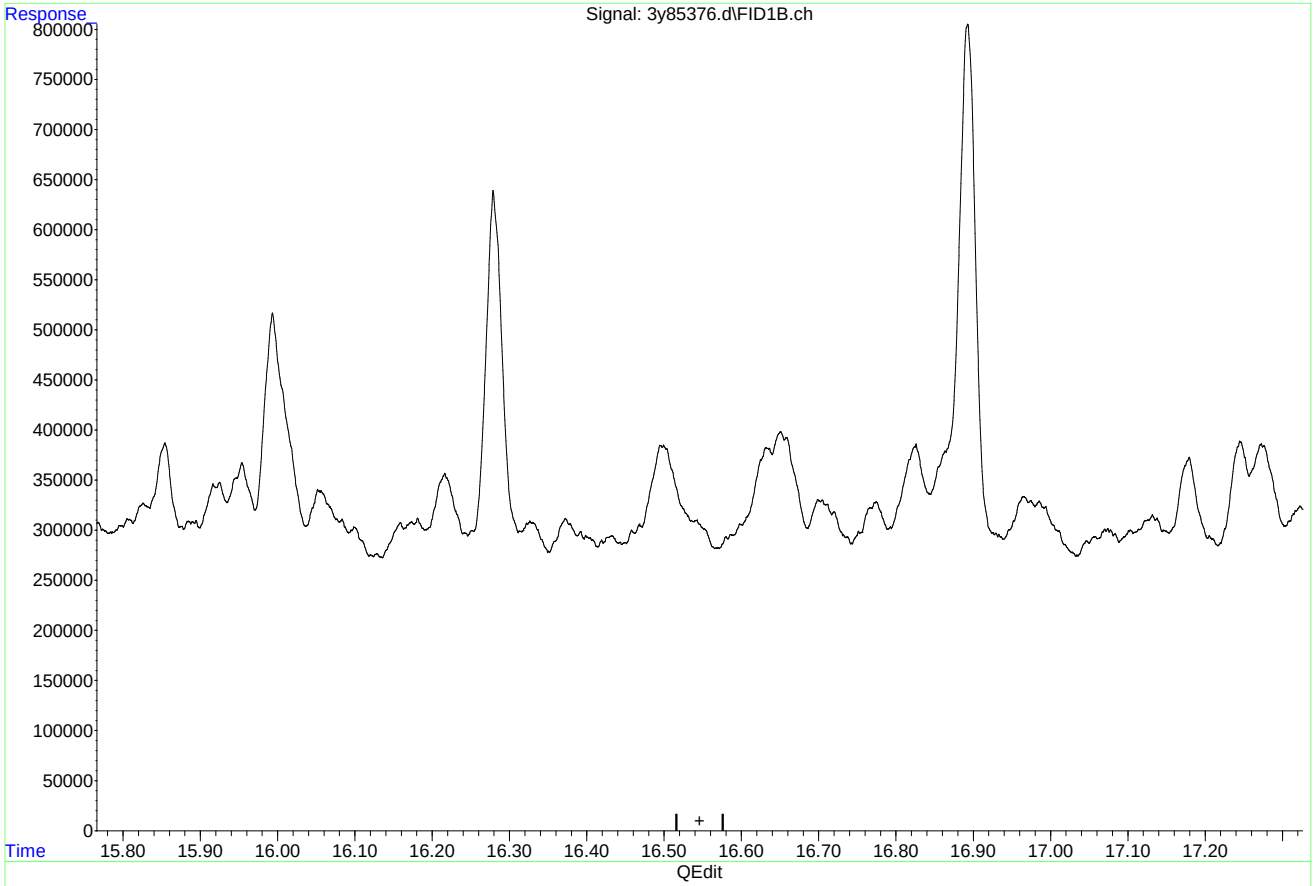
eph3y3347.m Tue Sep 27 16:10:28 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(15) Chrysene (T)

16.546min 0.000 ug/l

response 0

(+) = Expected Retention Time

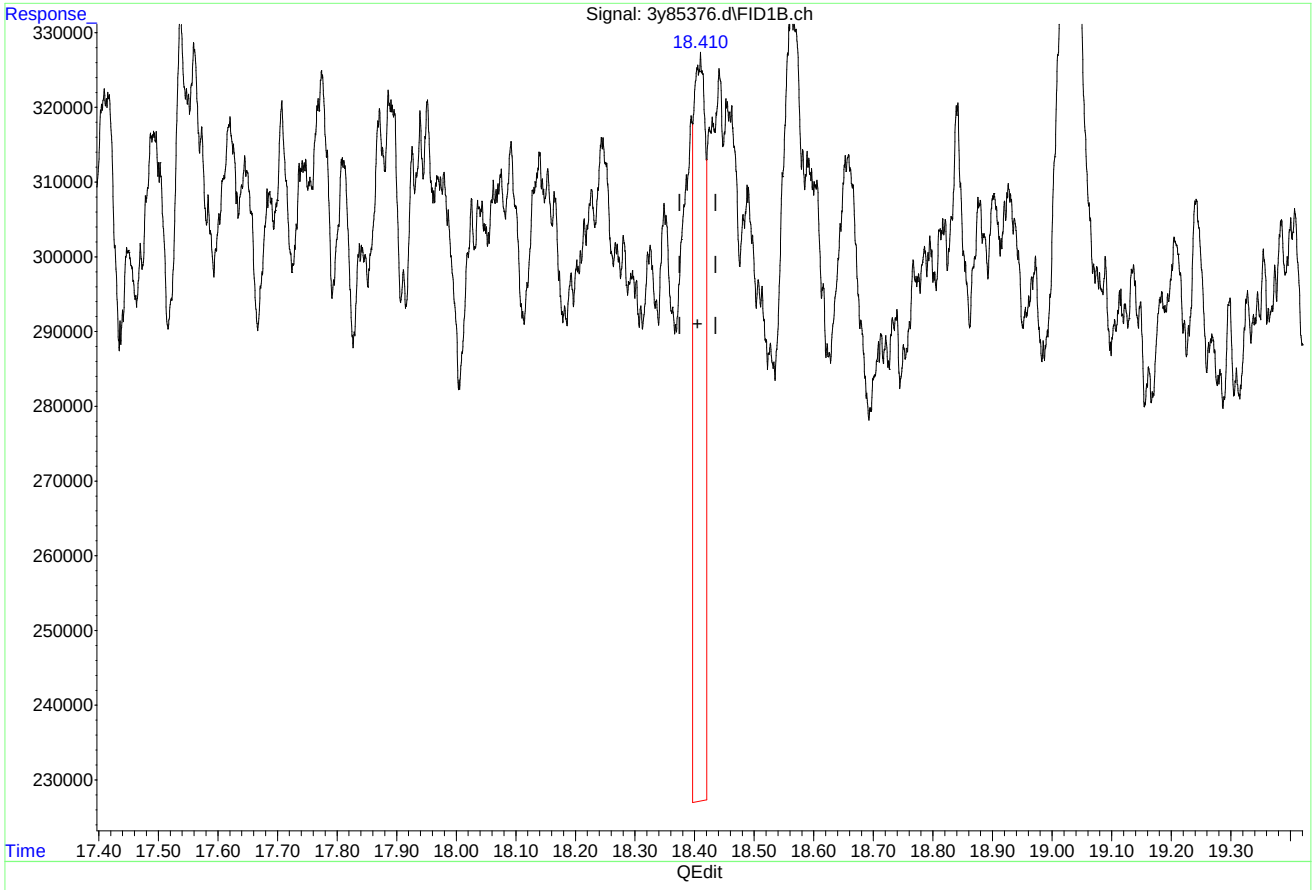
eph3y3347.m Tue Sep 27 16:10:35 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(16) Benzo(b)Fluoranthene (T)

18.410min 2.261 ug/l

response 1363852

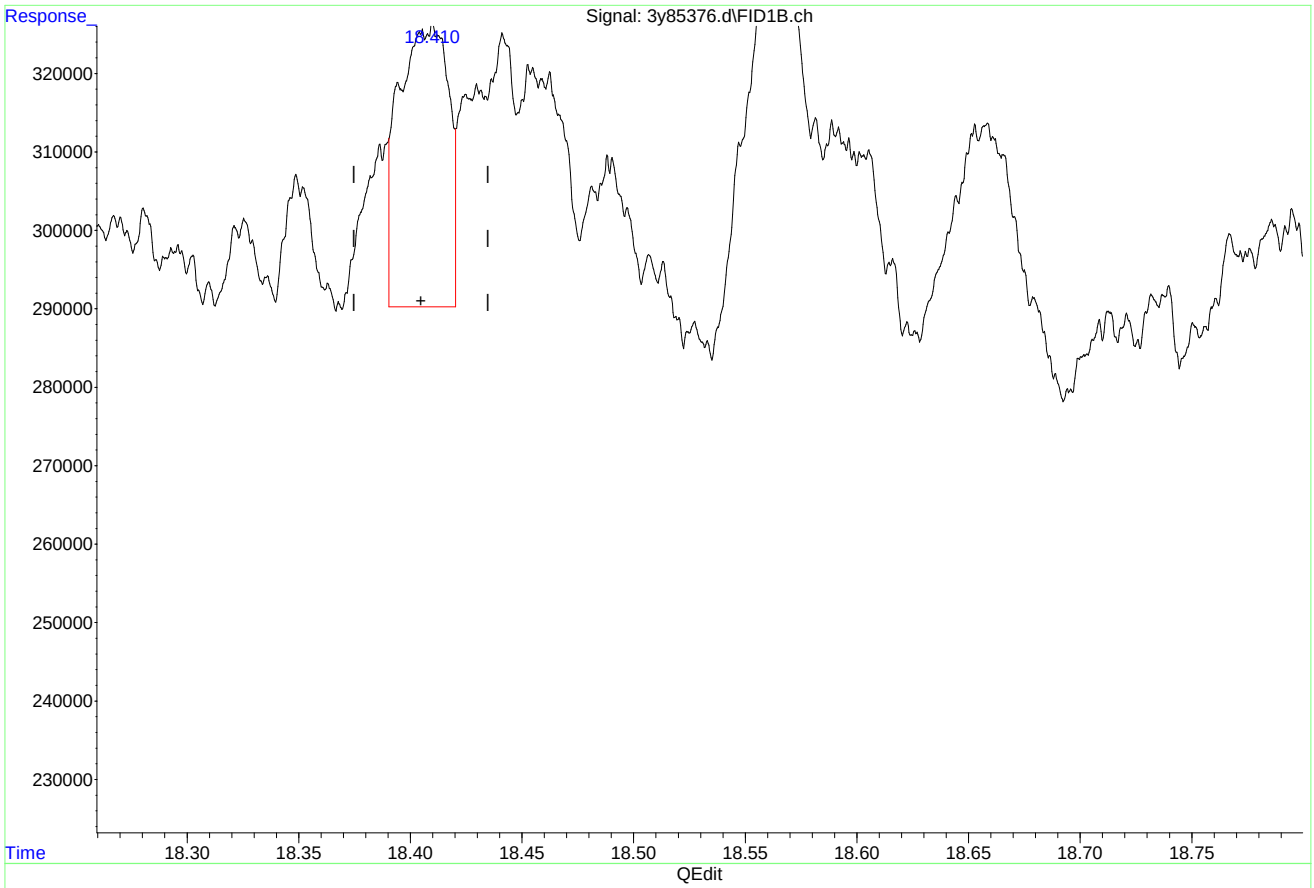
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(16) Benzo(b)Fluoranthene (T)

18.410min 0.913 ug/l m

response 550620

(+) = Expected Retention Time

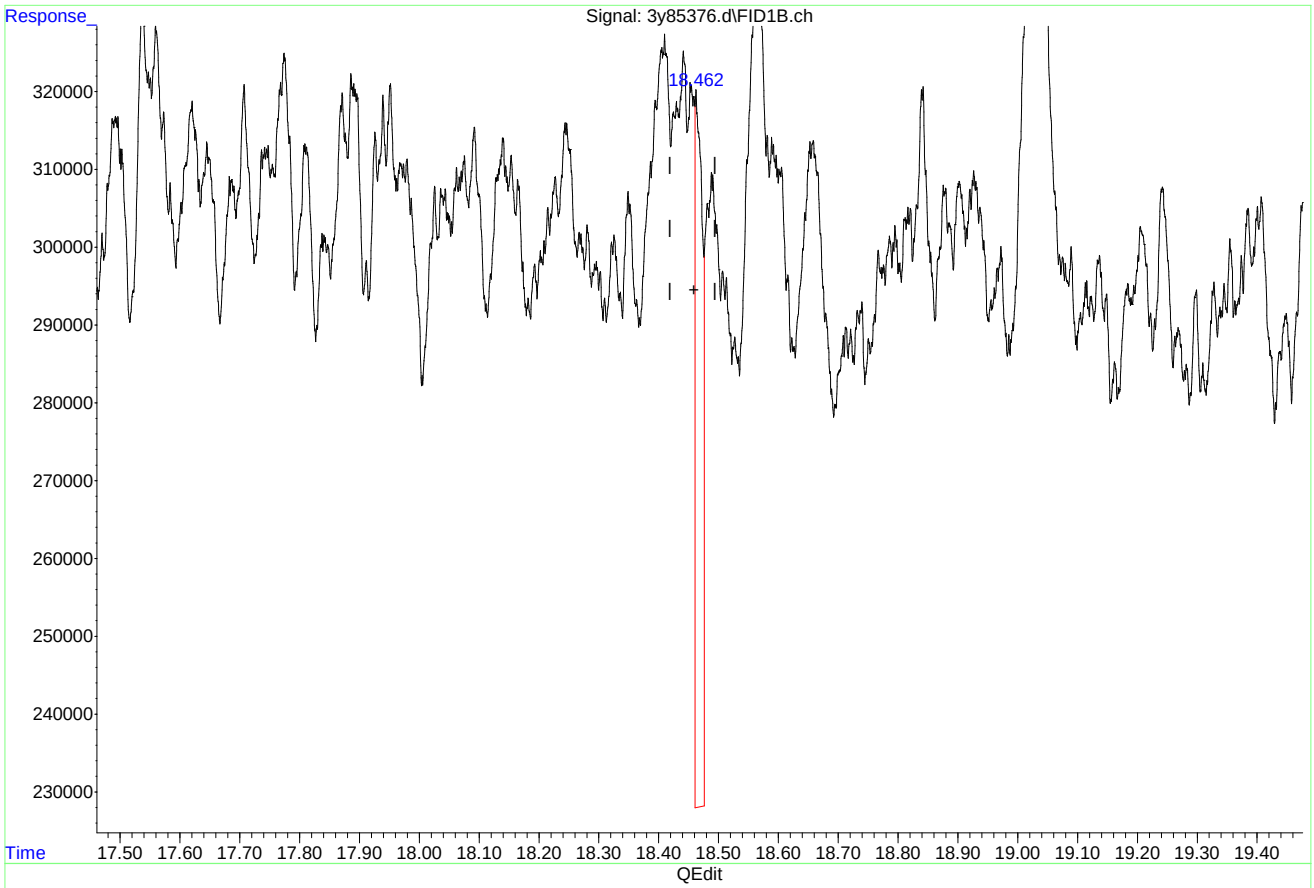
eph3y3347.m Tue Sep 27 16:10:49 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(17) Benzo(k)Fluoranthene (T)

18.463min 1.316 ug/l

response 769924

(+) = Expected Retention Time

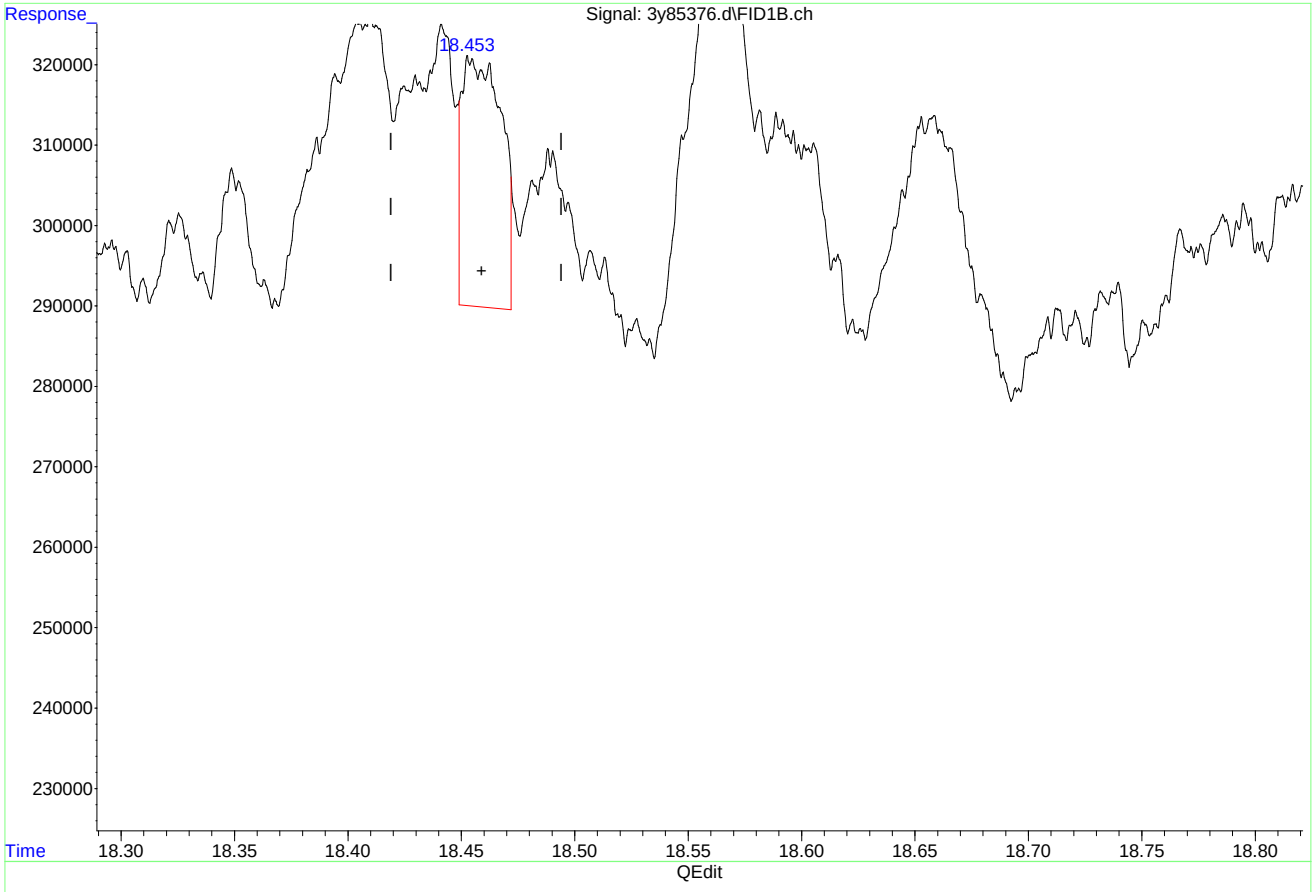
eph3y3347.m Tue Sep 27 16:10:52 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  11:29 pm
Operator  : thomasl
Sample    : jd52068-1
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 22   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(17) Benzo(k)Fluoranthene (T)

18.453min 0.631 ug/l m

response 369303

(+) = Expected Retention Time

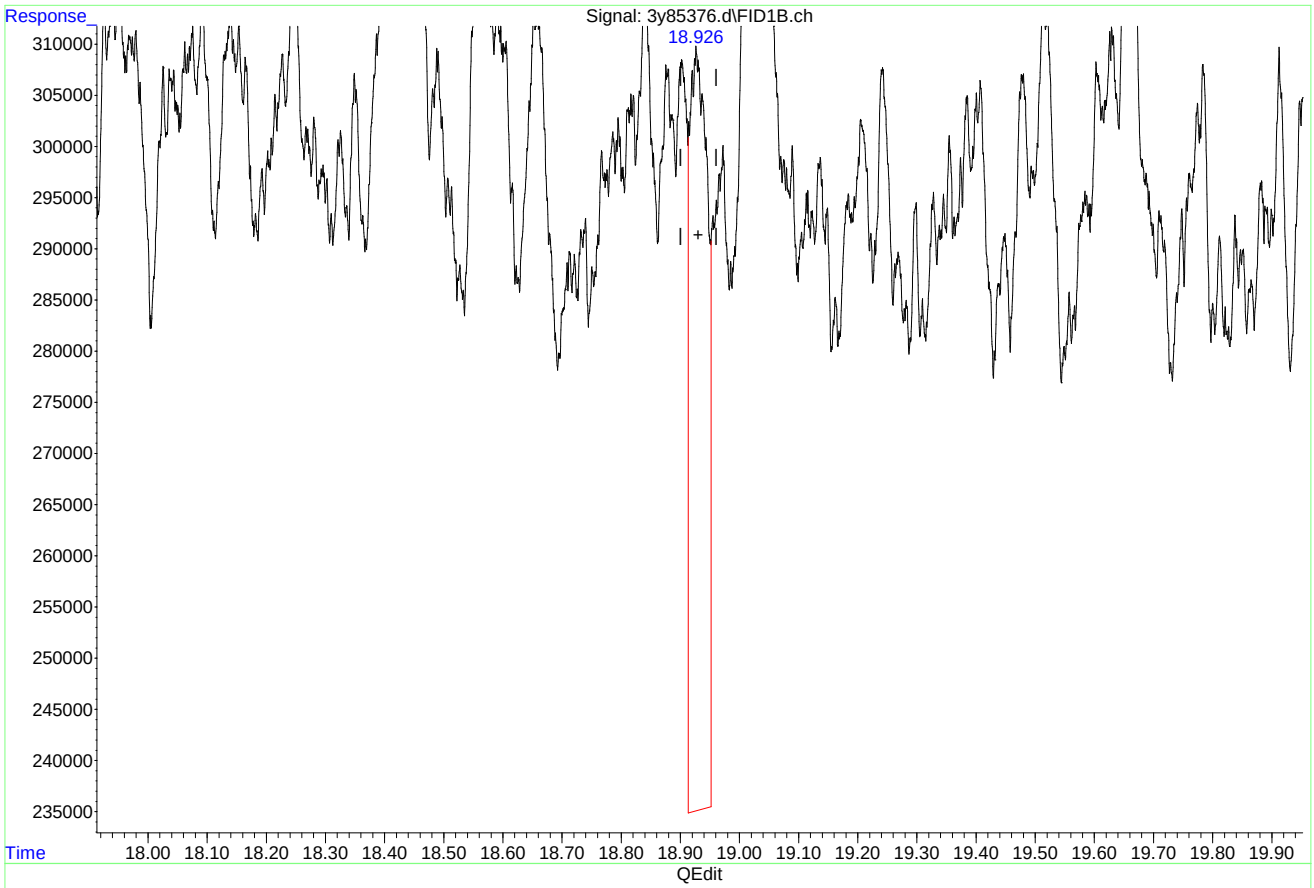
eph3y3347.m Tue Sep 27 16:11:05 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  11:29 pm
Operator  : thomasl
Sample    : jd52068-1
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 22   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(18) Benzo(a)Pyrene (T)

18.927min 2.684 ug/l

response 1572644

(+) = Expected Retention Time

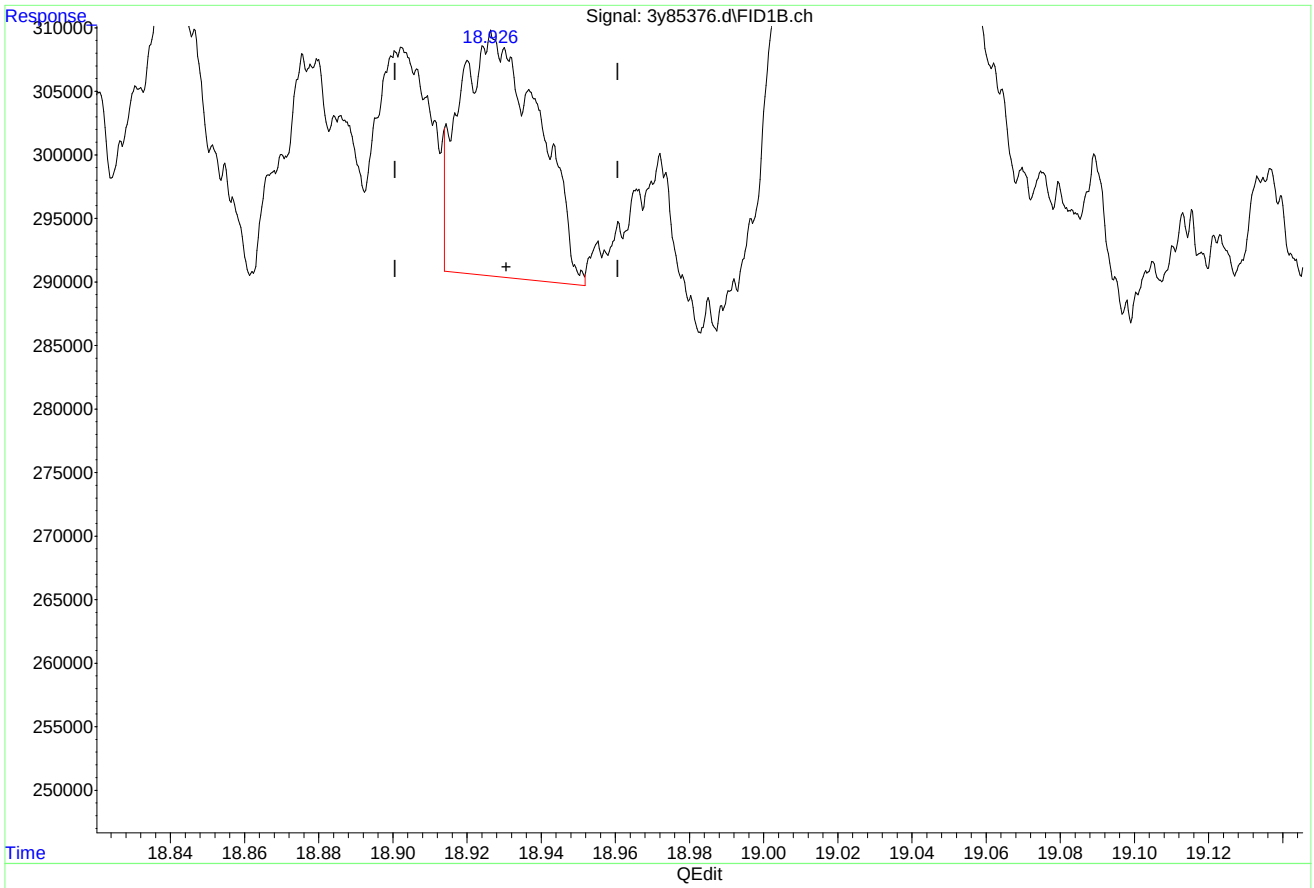
eph3y3347.m Tue Sep 27 16:11:09 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(18) Benzo(a)Pyrene (T)

18.926min 0.487 ug/l m

response 285279

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:11:15 2022

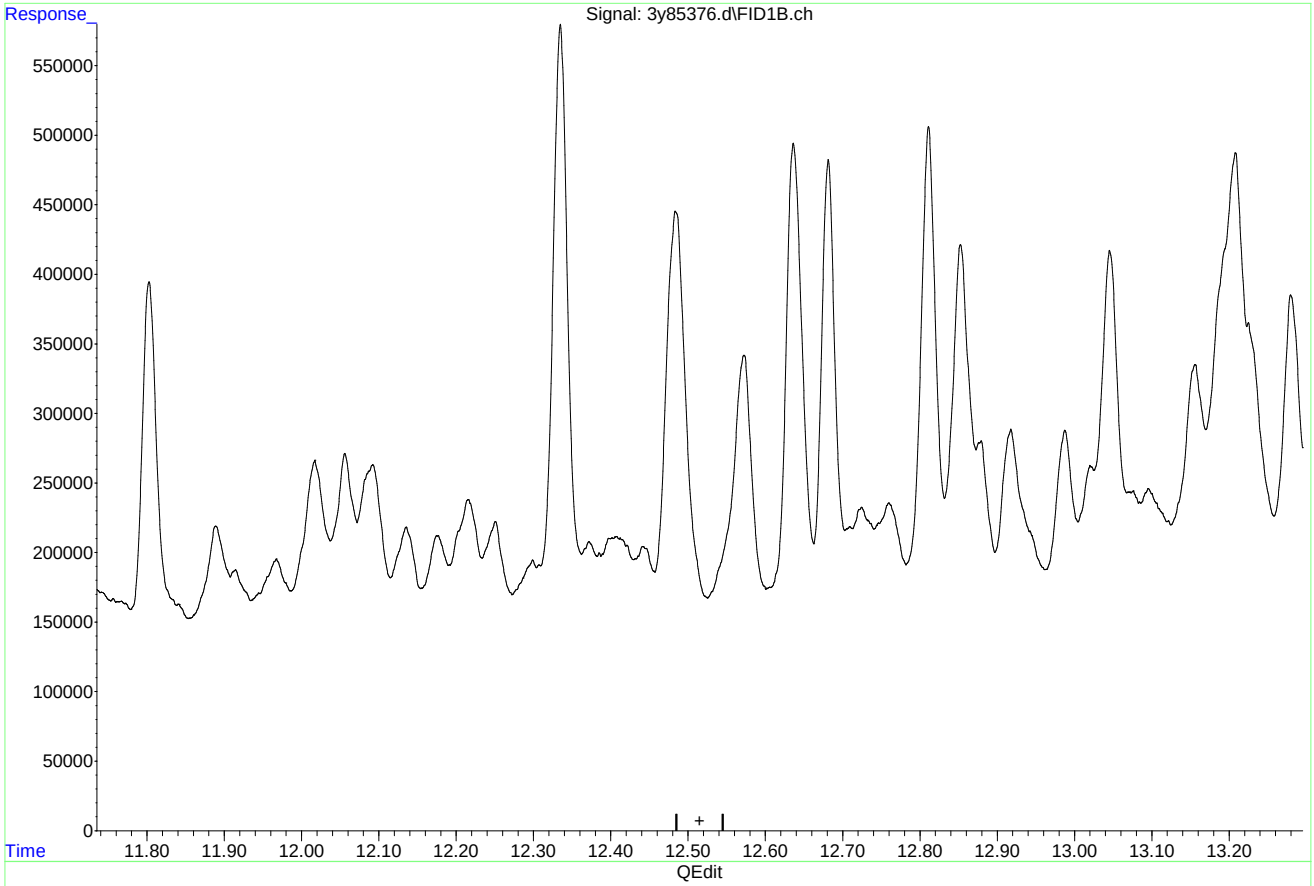
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(26) o-Terphenyl (S) (S)

12.515min 0.000 ug/L

response 0

(+) = Expected Retention Time

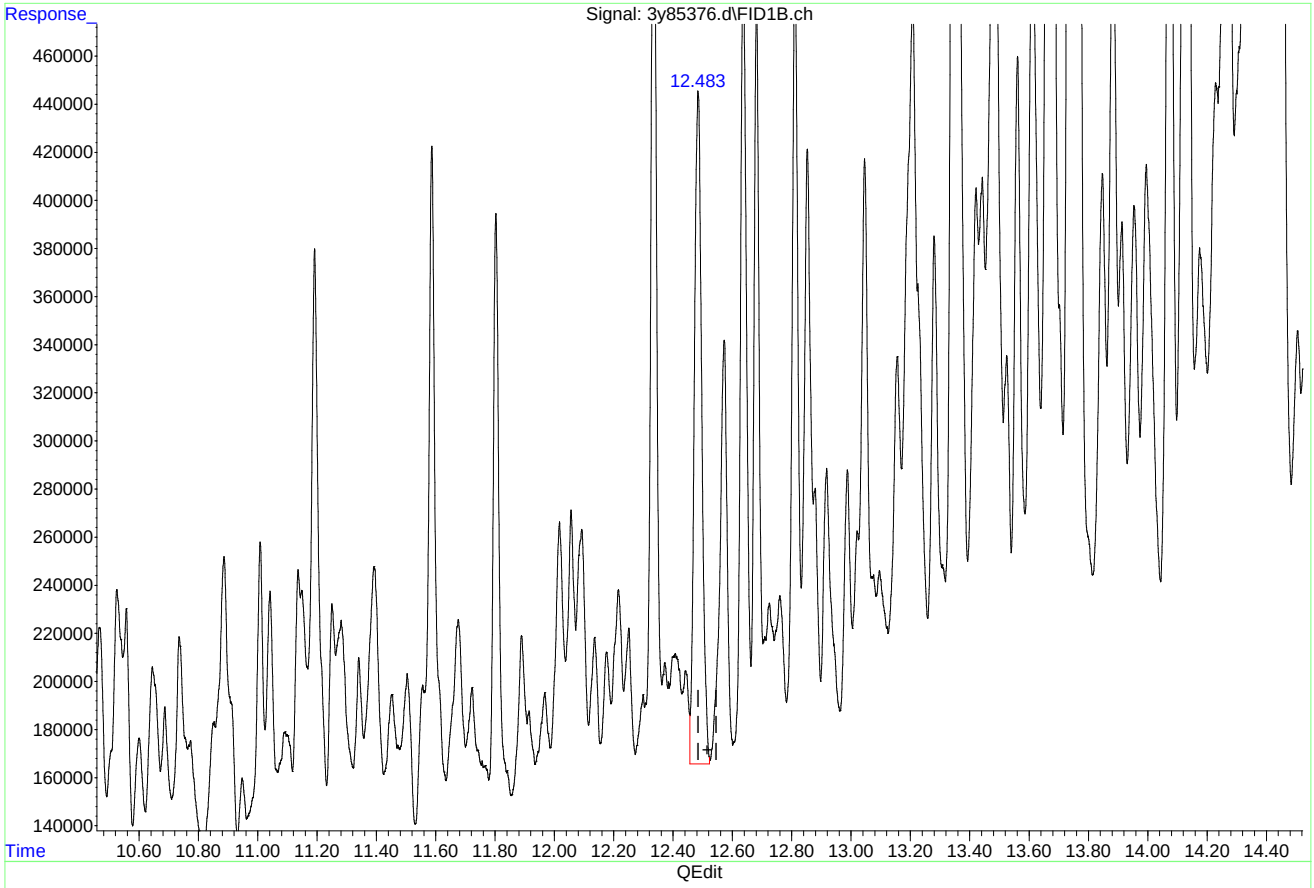
eph3y3347.m Tue Sep 27 16:14:36 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(26) o-Terphenyl (S) (S)

12.483min 7.610 ug/L m

response 4851653

(+) = Expected Retention Time

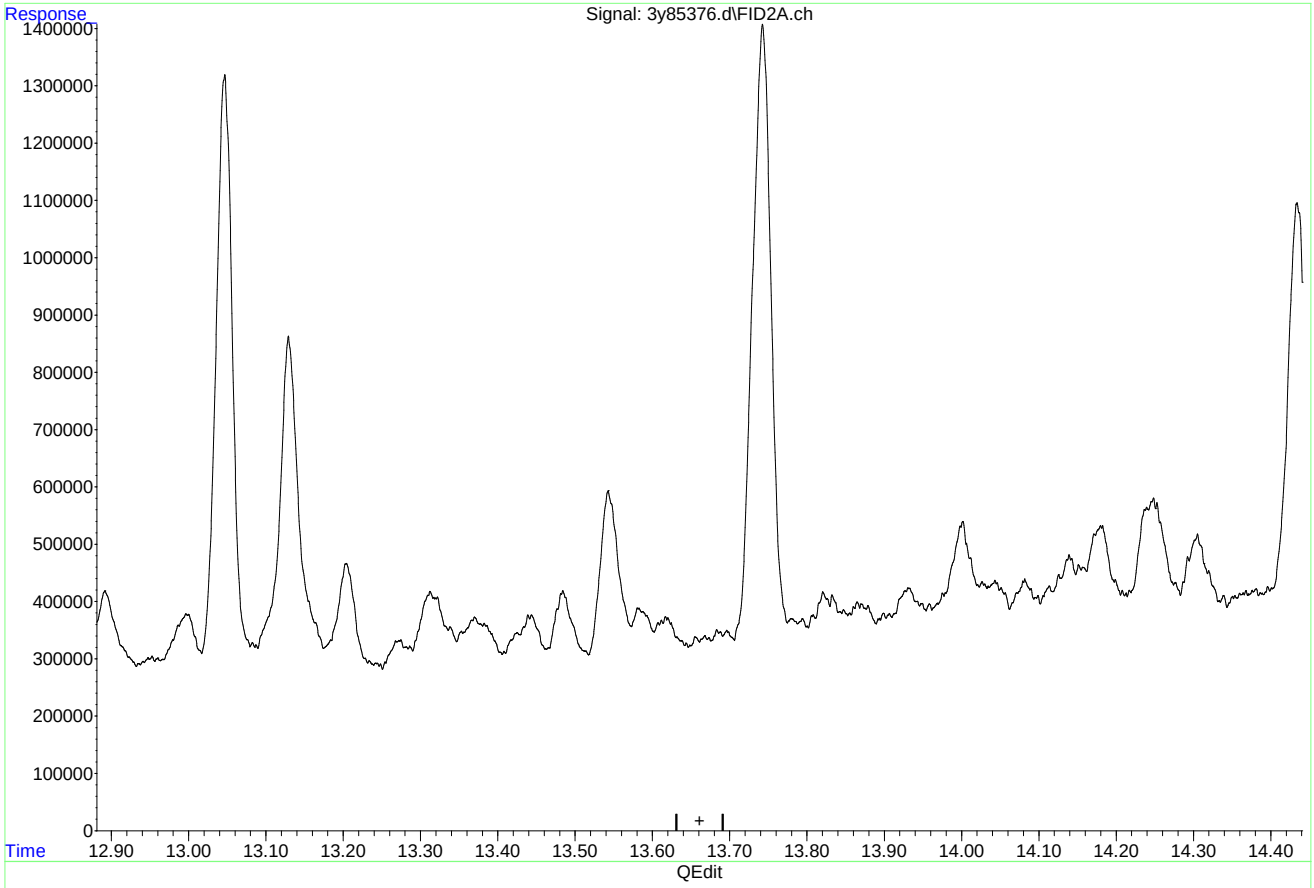
eph3y3347.m Tue Sep 27 16:14:46 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(55) 1-Chlorooctadecane (S) (S)

13.661min 0.000 ug/L

response 0

(+) = Expected Retention Time

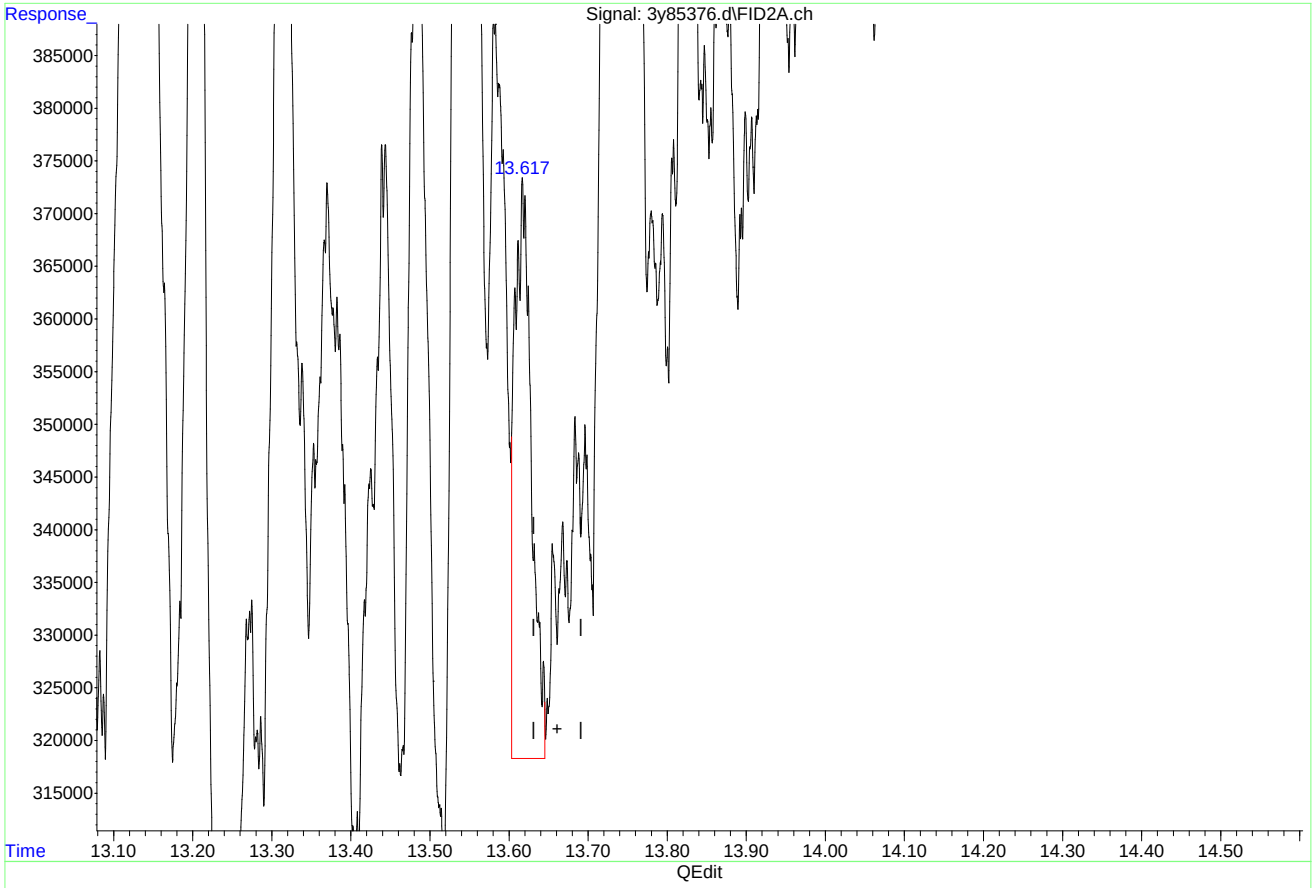
eph3y3347.m Tue Sep 27 16:15:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85376.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 11:29 pm
Operator : thomasl
Sample : jd52068-1
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:39 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(55) 1-Chlorooctadecane (S) (S)

13.617min 1.524 ug/L m

response 801834

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:15:52 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85373.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 9:38 pm
Operator : thomasl
Sample : op41903-mb1
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 21:19:53 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
24) S 2-Fluorobiphenyl (S)	8.234	24422979	41.813 ug/L
26) S o-Terphenyl (S)	12.508	8410708	13.193 ug/L
55) S 1-Chlorooctadecane (S)	13.660	8021077	15.241 ug/L
Target Compounds			

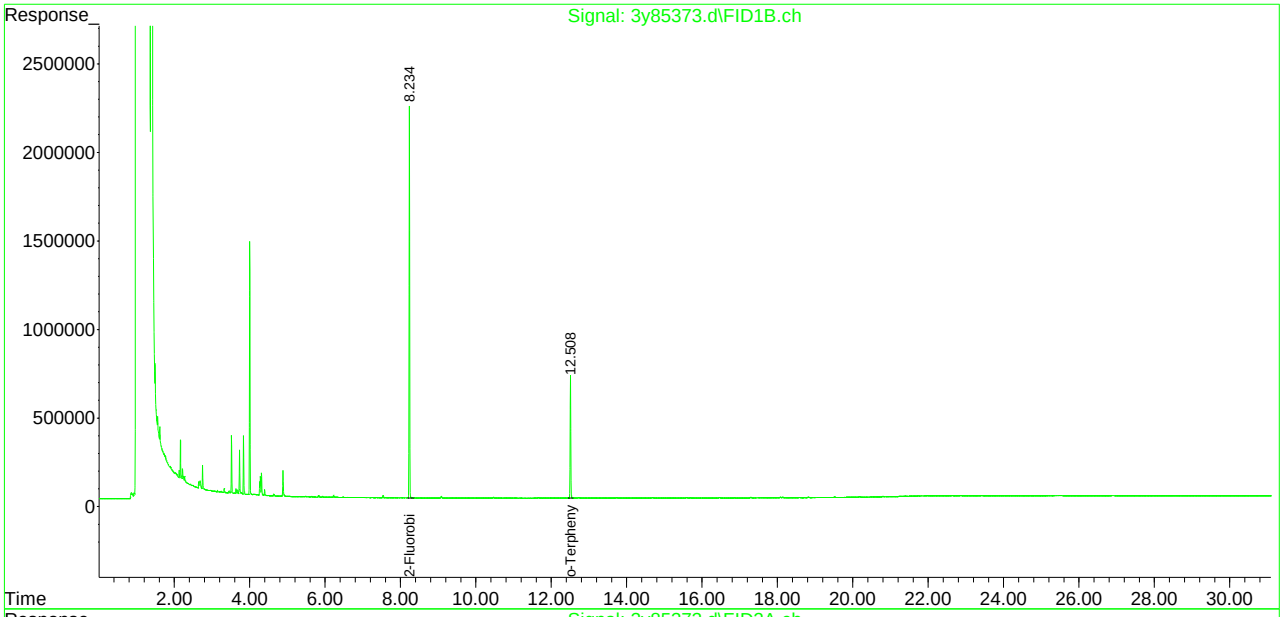
(f)=RT Delta > 1/2 Window (m)=manual int.

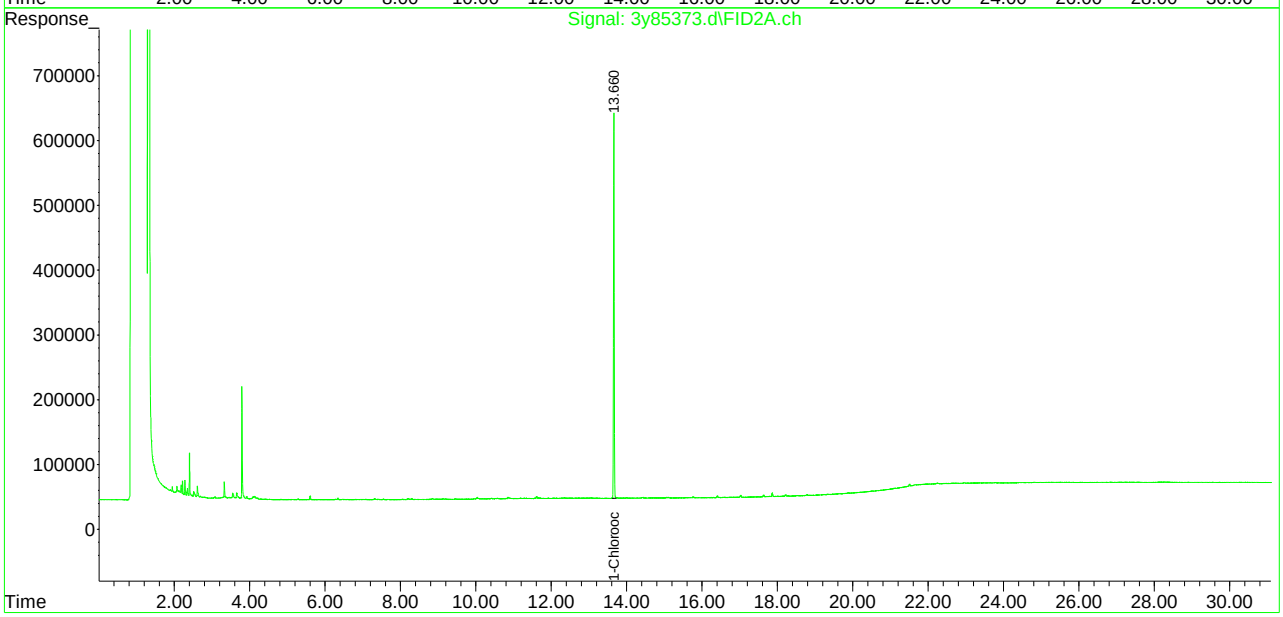
Quantitation Report (QT Reviewed)

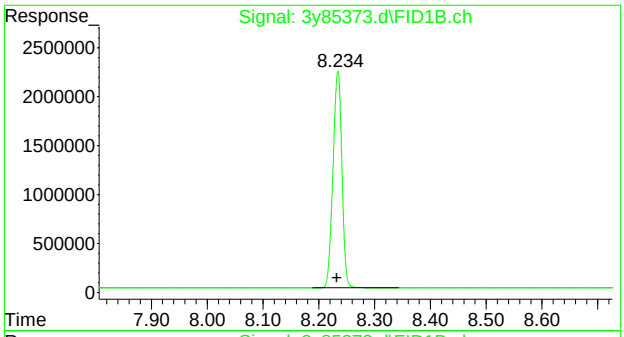
Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85373.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 9:38 pm
Operator : thomasl
Sample : op41903-mb1
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 21:19:53 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

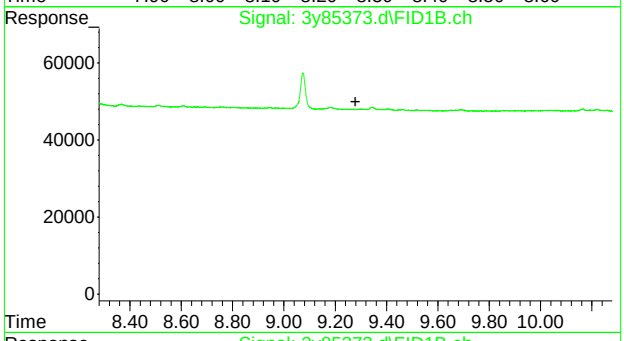






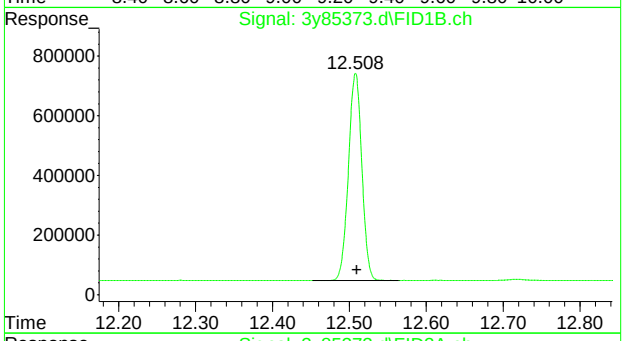
#24 2-Fluorobiphenyl (S)

R.T.: 8.234 min
Delta R.T.: 0.003 min
Response: 24422979
Conc: 41.81 ug/L



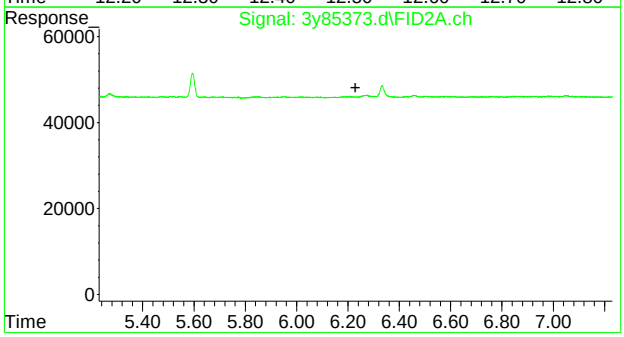
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.279 min
Response: 0
Conc: N.D.



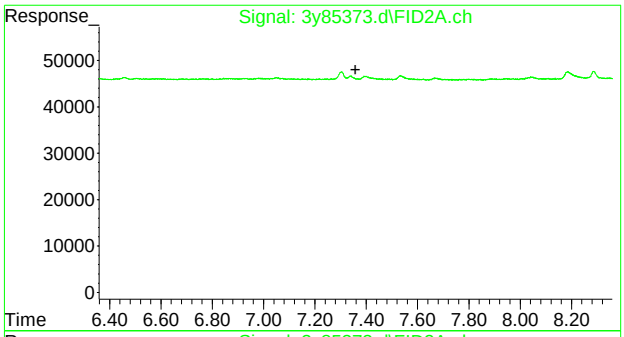
#26 o-Terphenyl (S)

R.T.: 12.508 min
Delta R.T.: -0.001 min
Response: 8410708
Conc: 13.19 ug/L



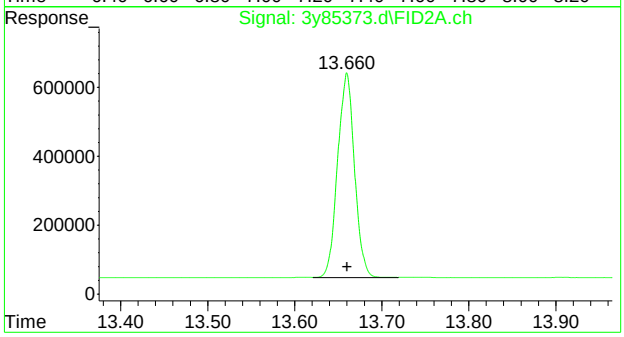
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.230 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.358 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.660 min
Delta R.T.: 0.000 min
Response: 8021077
Conc: 15.24 ug/L

7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 3y85374.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 10:15 pm
Operator : thomasl
Sample : op41903-bs1
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:06:42 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.234	25121329	43.008	ug/L
26) S	o-Terphenyl (S)	12.508	8132220	12.756	ug/L
55) S	1-Chlorooctadecane (S)	13.659	5679268	10.791	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.628	9188702	13.889	ug/l m
2) T	Naphthalene	6.456	10020629	14.556	ug/L
4) T	2-Methylnaphthalene	7.585	9942003	14.721	ug/L
5) T	Acenaphthylene	9.045	9417109	14.299	ug/l
6) T	Acenaphthene	9.341	10378305	14.784	ug/l
8) T	Fluorene	10.211	10482741	15.821	ug/l
9) T	Phenanthrene	11.803	10828286	16.815	ug/l
10) T	Anthracene	11.891	10721937	16.730	ug/l
11) T	Fluoranthene	13.839	10746789	17.227	ug/l
12) T	Pyrene	14.223	10780146	16.840	ug/l
14) T	Benzo(a)Anthracene	16.471	10507651	16.963	ug/l
15) T	Chrysene	16.532	10266416	16.626	ug/l
16) T	Benzo(b)Fluoranthene	18.394	10387887	17.221	ug/l
17) T	Benzo(k)Fluoranthene	18.442	10416607	17.803	ug/l
18) T	Benzo(a)Pyrene	18.915f	9208307	15.716	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.624	10106552	17.432	ug/l
20) T	Dibenzo(ah)Anthracene	20.678	10456259	16.732	ug/l
21) T	Benzo(ghi)Perylene	20.976	10087563	17.424	ug/l
23) H	C11-C22 Aromatics (Un...	13.720	195258147	309.340	ug/L
28) T	C9	3.058	5447973	9.249	ug/L
29) T	C10	4.157	6612797	11.012	ug/L
30) T	C12	6.328	7179598	11.724	ug/L
32) T	C14	8.284	7856568	12.790	ug/L
33) T	C16	10.031	8882316	14.310	ug/L
35) T	C18	11.605	9262886	14.820	ug/L
36) T	C19	12.337	9088155	14.403	ug/L
37) T	C20	13.044	8944816	14.394	ug/L
38) T	C21	13.742	8555995	13.877	ug/L
40) T	C22	14.430	8845657	14.370	ug/L
41) T	C24	15.759	8672347	14.461	ug/L
42) T	C26	17.022	8493307	14.510	ug/L
43) T	C28	18.212	8213512	14.534	ug/L
44) T	C30	19.332	7901751	14.227	ug/L
45) T	C32	20.388	7767375	14.217	ug/L
46) T	C34	21.380	7614480	14.525	ug/L
47) T	C36	22.414	7206327	13.741	ug/L
48) T	C38	23.761	7174325	13.951	ug/L
49) T	C40	25.627	7113781	13.571	ug/L
51) H	C9-C18 Aliphatics	7.580	51823932	84.912	ug/L
52) H	C19-C36 Aliphatics	17.380	121222937	206.428	ug/L

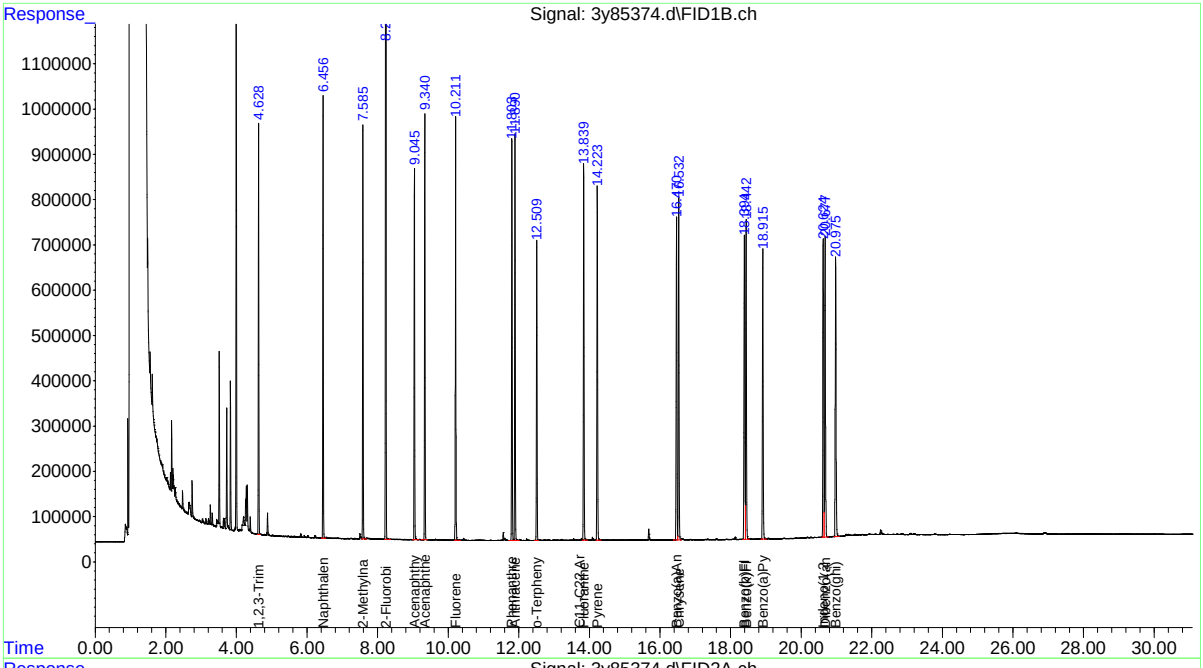
(f)=RT Delta > 1/2 Window (m)=manual int.

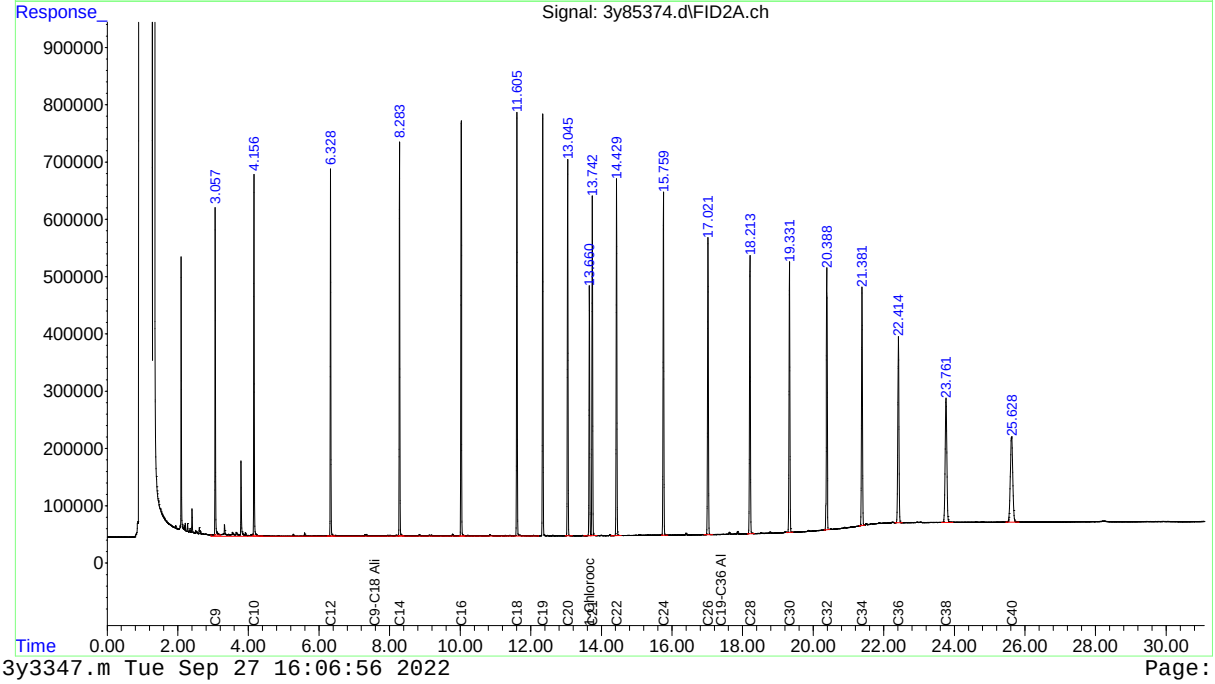
Quantitation Report (QT Reviewed)

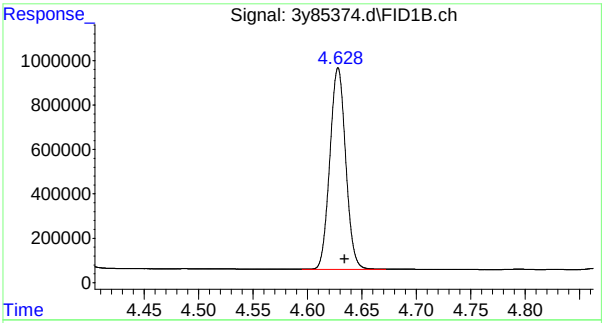
Data Path : C:\msdchem\1\data\
Data File : 3y85374.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 10:15 pm
Operator : thomasl
Sample : op41903-bs1
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:06:42 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

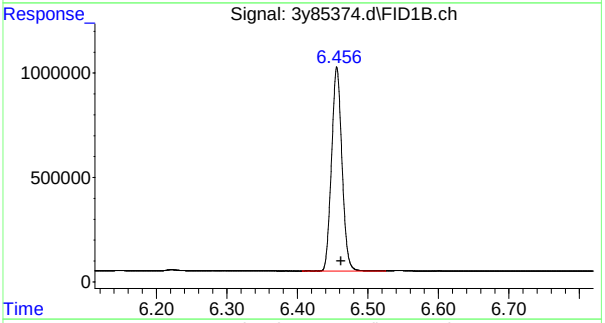






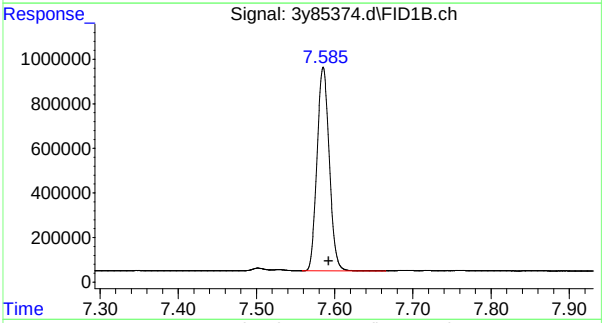
#1 1,2,3-Trimethylbenzene

R.T.: 4.628 min
Delta R.T.: -0.006 min
Response: 9188702
Conc: 13.89 ug/l m



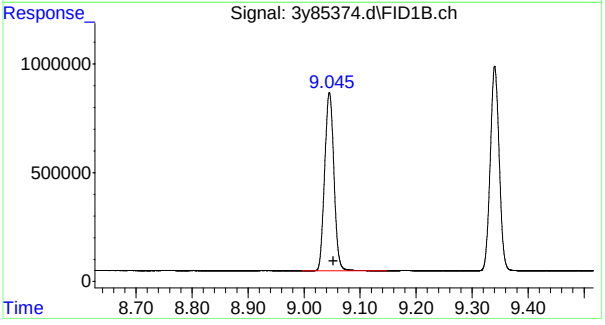
#2 Naphthalene

R.T.: 6.456 min
Delta R.T.: -0.006 min
Response: 10020629
Conc: 14.56 ug/L



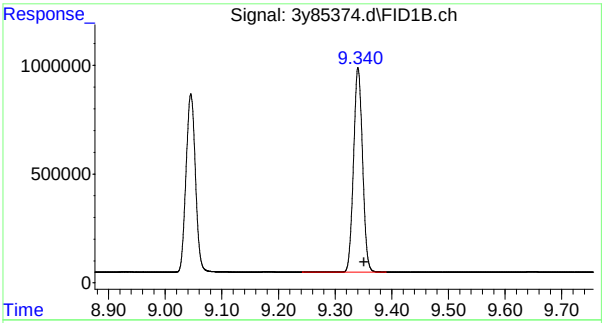
#4 2-Methylnaphthalene

R.T.: 7.585 min
Delta R.T.: -0.007 min
Response: 9942003
Conc: 14.72 ug/L



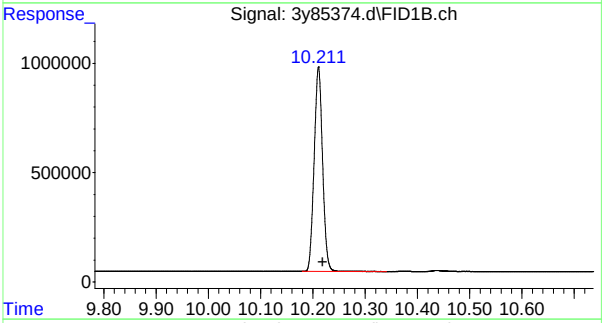
#5 Acenaphthylene

R.T.: 9.045 min
Delta R.T.: -0.007 min
Response: 9417109
Conc: 14.30 ug/l



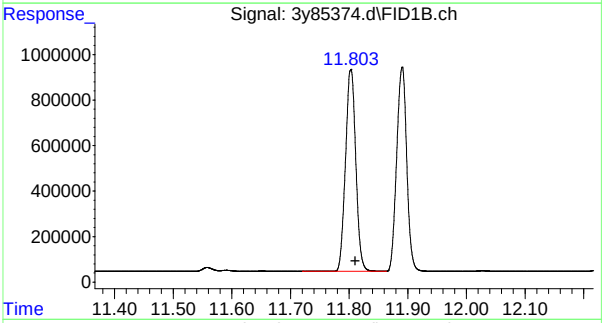
#6 Acenaphthene

R.T.: 9.341 min
Delta R.T.: -0.010 min
Response: 10378305
Conc: 14.78 ug/l



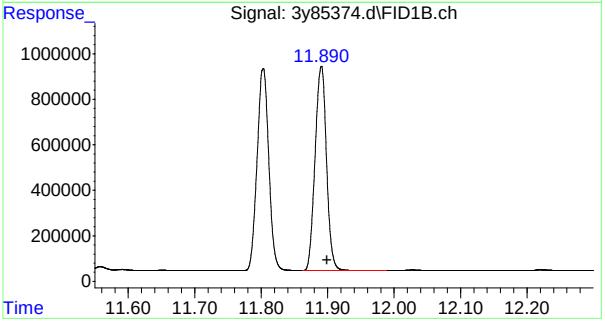
#8 Fluorene

R.T.: 10.211 min
Delta R.T.: -0.008 min
Response: 10482741
Conc: 15.82 ug/l



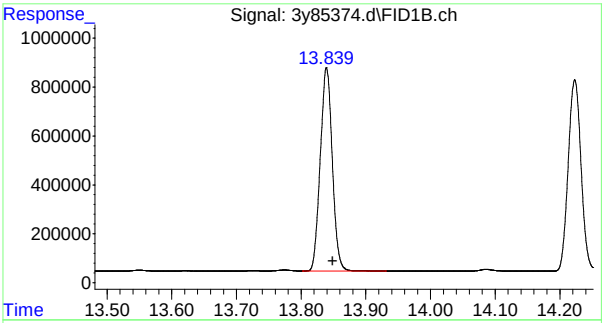
#9 Phenanthrene

R.T.: 11.803 min
Delta R.T.: -0.007 min
Response: 10828286
Conc: 16.81 ug/l



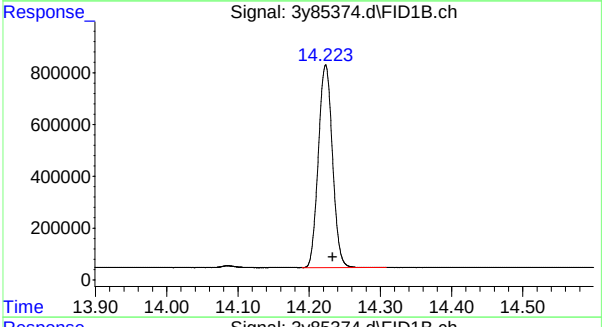
#10 Anthracene

R.T.: 11.891 min
Delta R.T.: -0.008 min
Response: 10721937
Conc: 16.73 ug/l



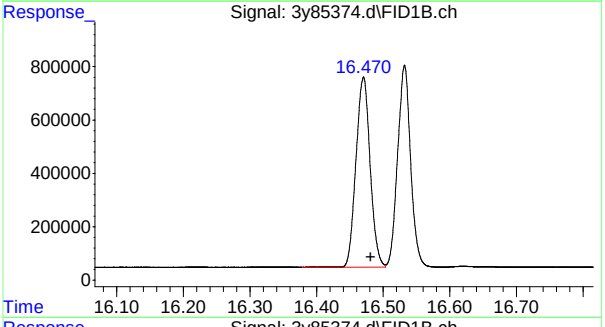
#11 Fluoranthene

R.T.: 13.839 min
Delta R.T.: -0.009 min
Response: 10746789
Conc: 17.23 ug/l



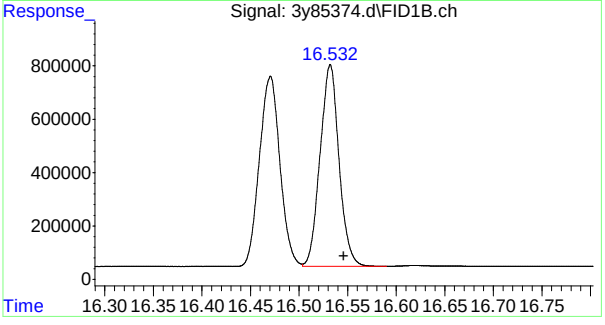
#12 Pyrene

R.T.: 14.223 min
Delta R.T.: -0.010 min
Response: 10780146
Conc: 16.84 ug/l



#14 Benzo(a)Anthracene

R.T.: 16.471 min
Delta R.T.: -0.010 min
Response: 10507651
Conc: 16.96 ug/l

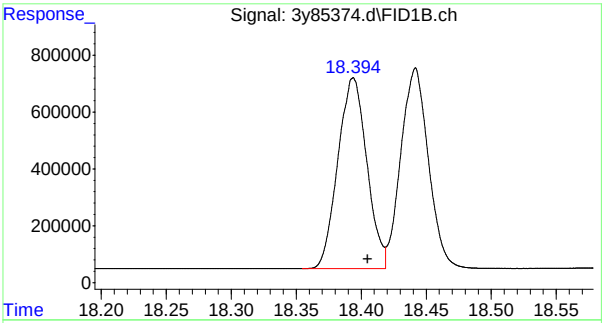


#15 Chrysene

R.T.: 16.532 min
Delta R.T.: -0.014 min
Response: 10266416
Conc: 16.63 ug/l

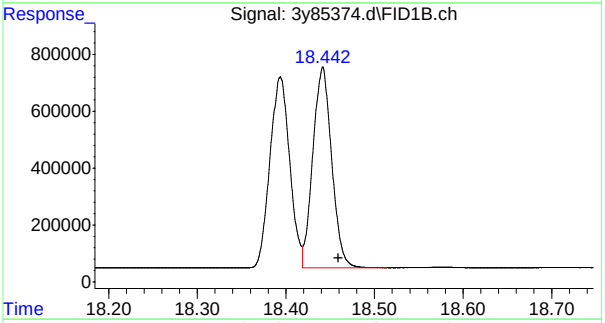
7.3.1

7



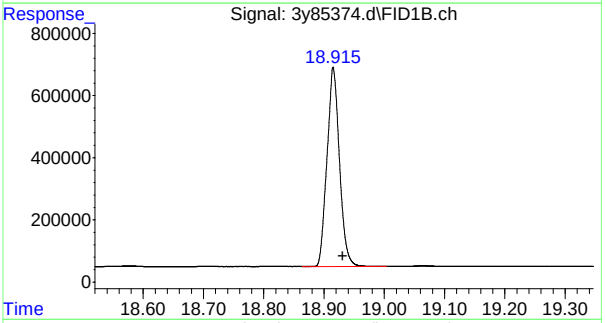
#16 Benzo(b)Fluoranthene

R.T.: 18.394 min
Delta R.T.: -0.011 min
Response: 10387887
Conc: 17.22 ug/l



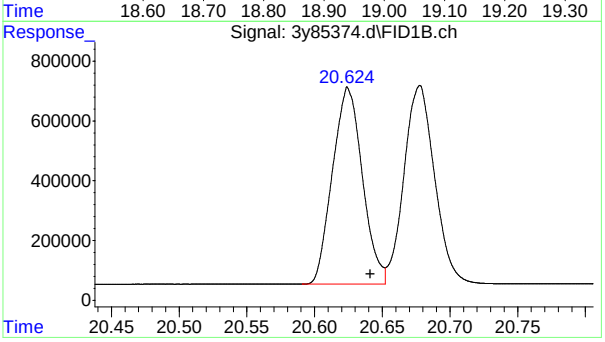
#17 Benzo(k)Fluoranthene

R.T.: 18.442 min
Delta R.T.: -0.017 min
Response: 10416607
Conc: 17.80 ug/l



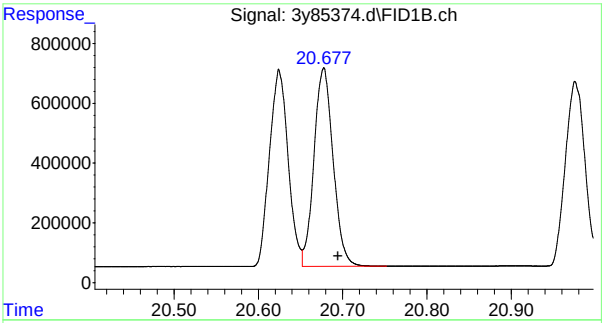
#18 Benzo(a)Pyrene

R.T.: 18.915 min
Delta R.T.: -0.015 min
Response: 9208307
Conc: 15.72 ug/l



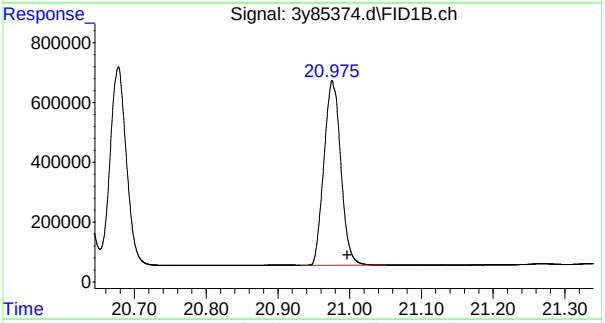
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.624 min
Delta R.T.: -0.017 min
Response: 10106552
Conc: 17.43 ug/l



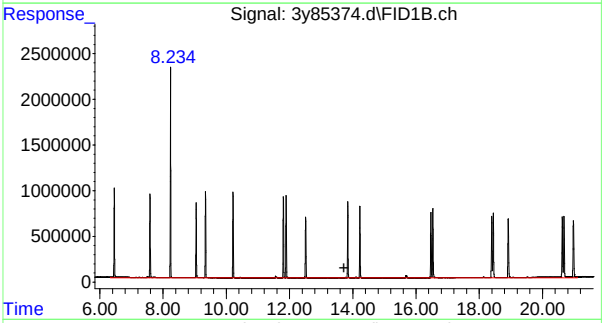
#20 Dibenzo(ah)Anthracene

R.T.: 20.678 min
Delta R.T.: -0.016 min
Response: 10456259
Conc: 16.73 ug/l



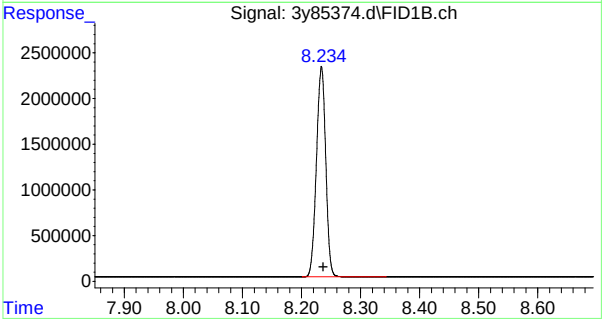
#21 Benzo(ghi)Perylene

R.T.: 20.976 min
Delta R.T.: -0.021 min
Response: 10087563
Conc: 17.42 ug/l



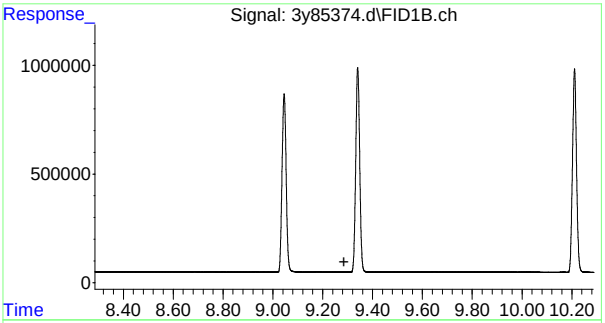
#23 C11-C22 Aromatics (Unadj.)

R.T.: 13.720 min
Delta R.T.: 0.000 min
Response: 195258147
Conc: 309.34 ug/L



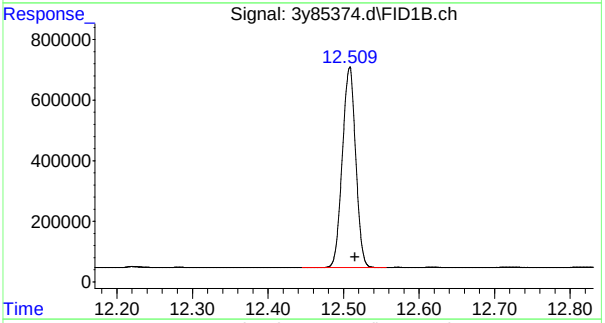
#24 2-Fluorobiphenyl (S)

R.T.: 8.234 min
Delta R.T.: -0.003 min
Response: 25121329
Conc: 43.01 ug/L



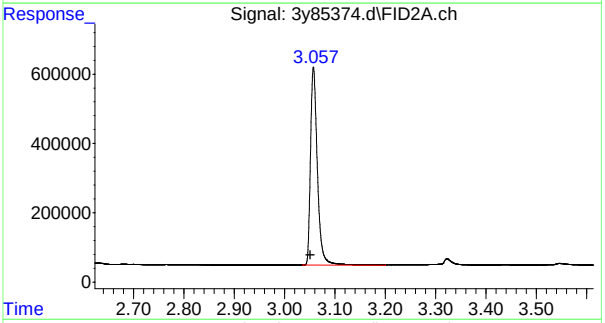
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.285 min
Response: 0
Conc: N.D.



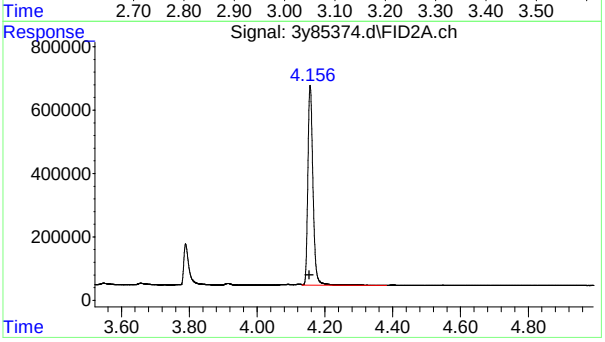
#26 o-Terphenyl (S)

R.T.: 12.508 min
Delta R.T.: -0.007 min
Response: 8132220
Conc: 12.76 ug/L



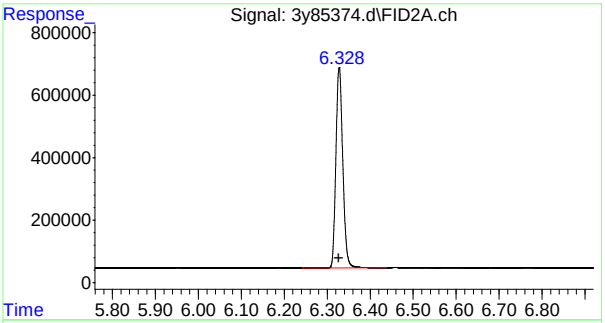
#28 C9

R.T.: 3.058 min
Delta R.T.: 0.007 min
Response: 5447973
Conc: 9.25 ug/L



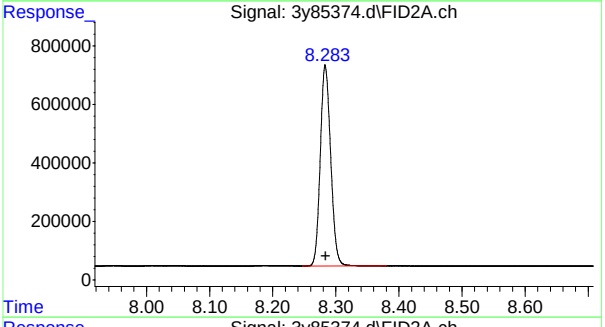
#29 C10

R.T.: 4.157 min
Delta R.T.: 0.003 min
Response: 6612797
Conc: 11.01 ug/L



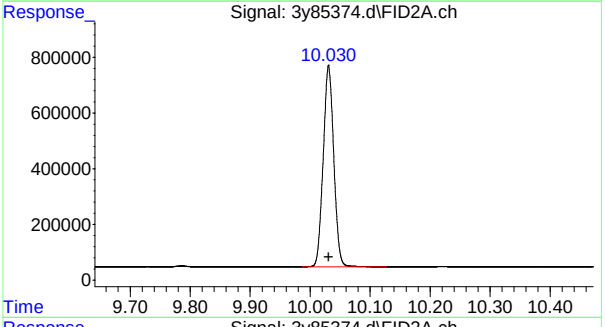
#30 C12

R.T.: 6.328 min
Delta R.T.: 0.002 min
Response: 7179598
Conc: 11.72 ug/L



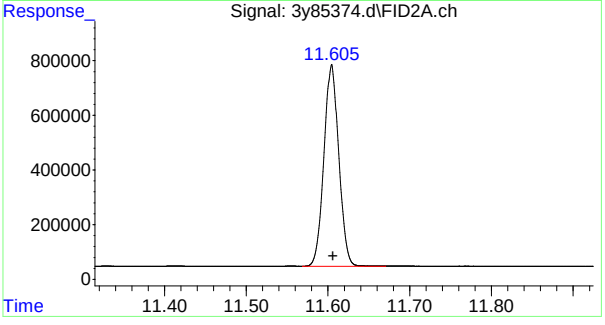
#32 C14

R.T.: 8.284 min
Delta R.T.: 0.000 min
Response: 7856568
Conc: 12.79 ug/L



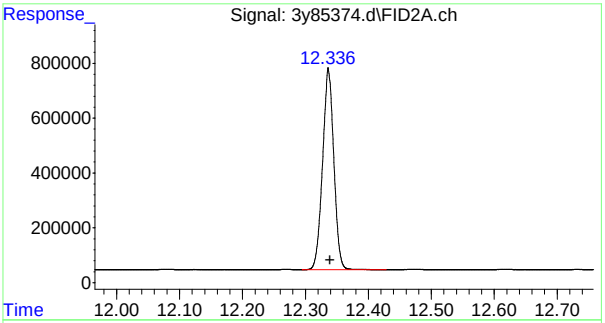
#33 C16

R.T.: 10.031 min
Delta R.T.: 0.000 min
Response: 8882316
Conc: 14.31 ug/L



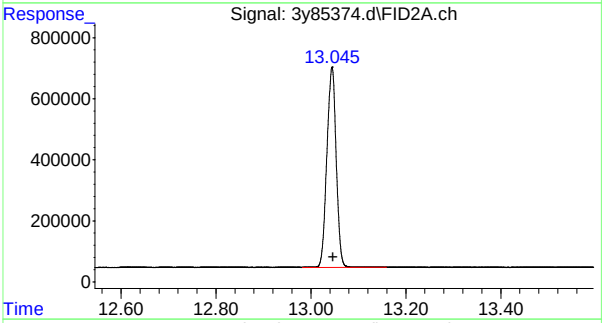
#35 C18

R.T.: 11.605 min
Delta R.T.: -0.002 min
Response: 9262886
Conc: 14.82 ug/L



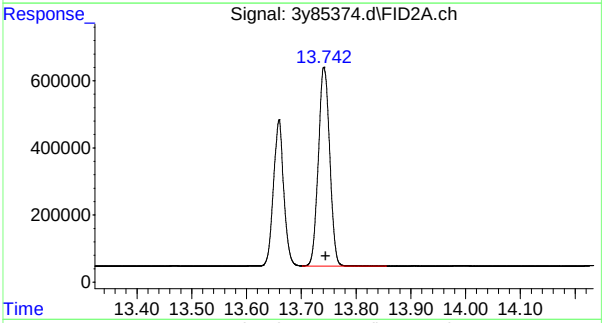
#36 C19

R.T.: 12.337 min
Delta R.T.: -0.002 min
Response: 9088155
Conc: 14.40 ug/L



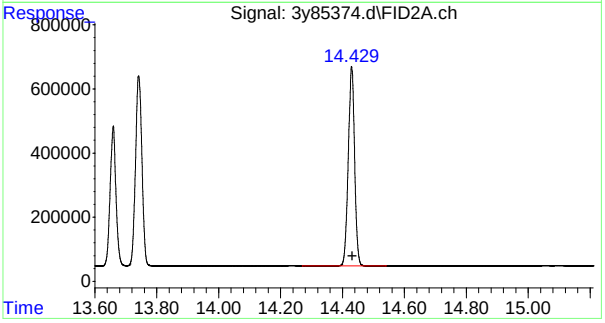
#37 C20

R.T.: 13.044 min
Delta R.T.: -0.002 min
Response: 8944816
Conc: 14.39 ug/L



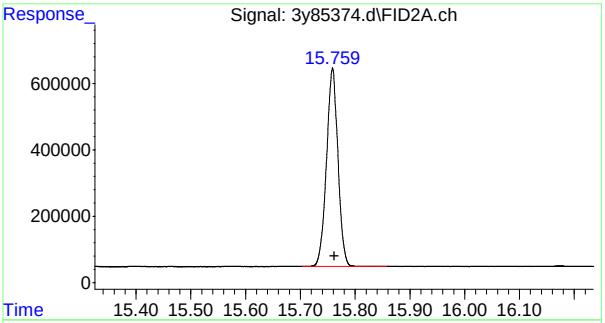
#38 C21

R.T.: 13.742 min
Delta R.T.: -0.003 min
Response: 8555995
Conc: 13.88 ug/L



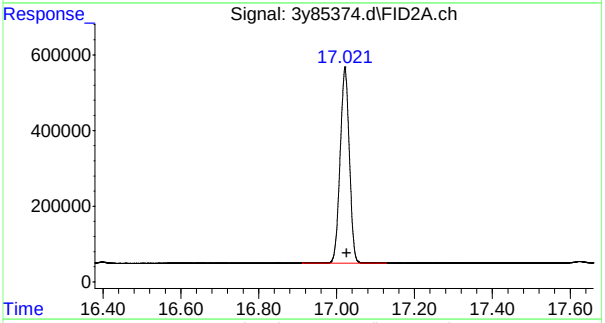
#40 C22

R.T.: 14.430 min
Delta R.T.: -0.002 min
Response: 8845657
Conc: 14.37 ug/L



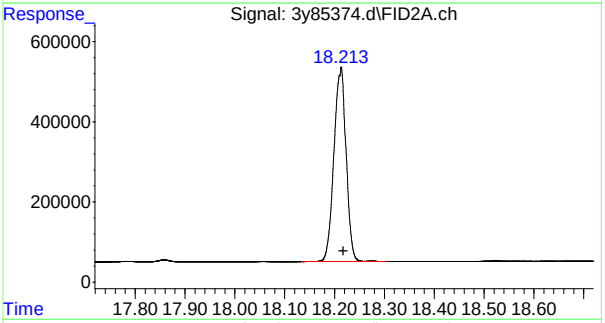
#41 C24

R.T.: 15.759 min
Delta R.T.: -0.003 min
Response: 8672347
Conc: 14.46 ug/L



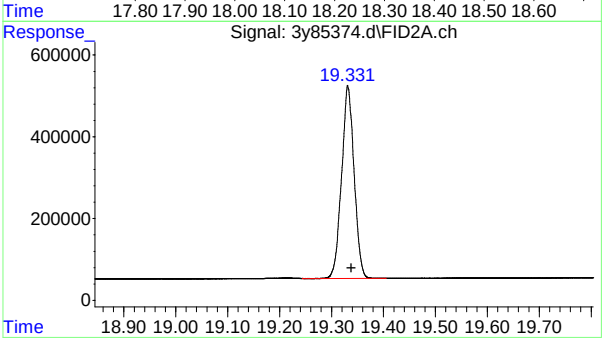
#42 C26

R.T.: 17.022 min
Delta R.T.: -0.004 min
Response: 8493307
Conc: 14.51 ug/L



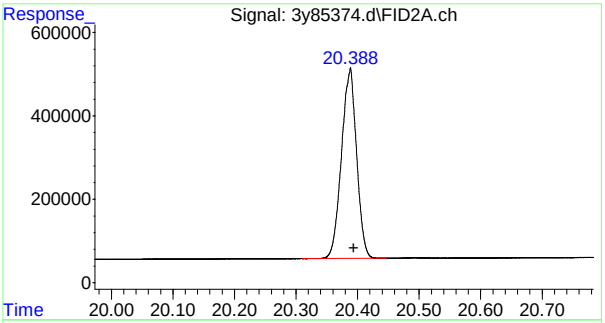
#43 C28

R.T.: 18.212 min
Delta R.T.: -0.005 min
Response: 8213512
Conc: 14.53 ug/L



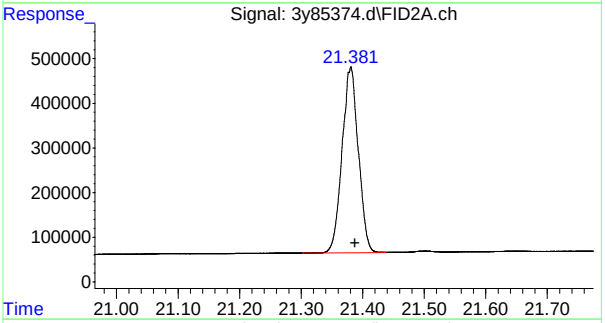
#44 C30

R.T.: 19.332 min
Delta R.T.: -0.006 min
Response: 7901751
Conc: 14.23 ug/L



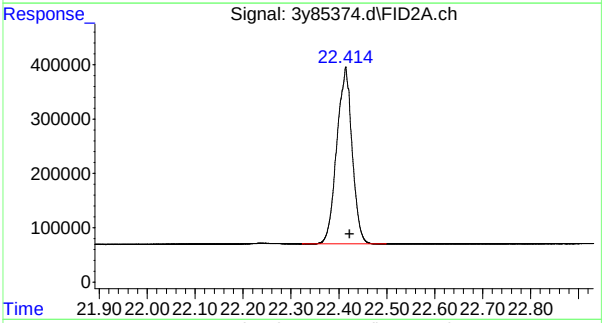
#45 C32

R.T.: 20.388 min
Delta R.T.: -0.006 min
Response: 7767375
Conc: 14.22 ug/L



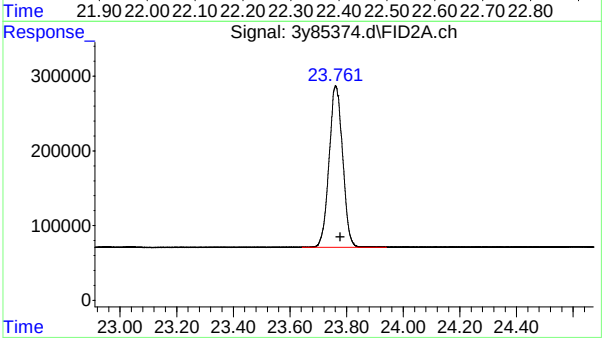
#46 C34

R.T.: 21.380 min
Delta R.T.: -0.007 min
Response: 7614480
Conc: 14.53 ug/L



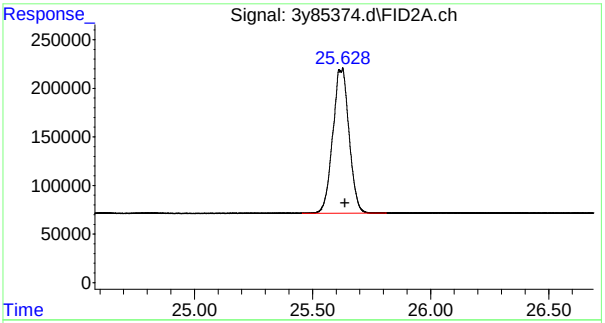
#47 C36

R.T.: 22.414 min
Delta R.T.: -0.008 min
Response: 7206327
Conc: 13.74 ug/L



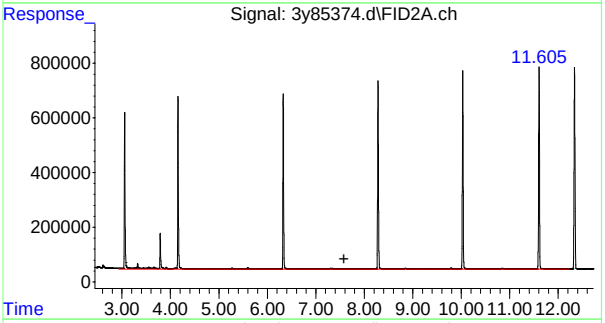
#48 C38

R.T.: 23.761 min
Delta R.T.: -0.017 min
Response: 7174325
Conc: 13.95 ug/L



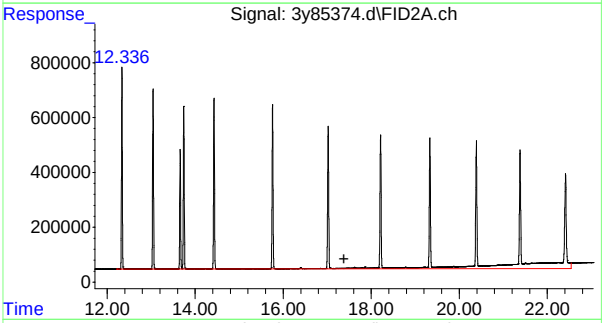
#49 C40

R.T.: 25.627 min
Delta R.T.: -0.010 min
Response: 7113781
Conc: 13.57 ug/L



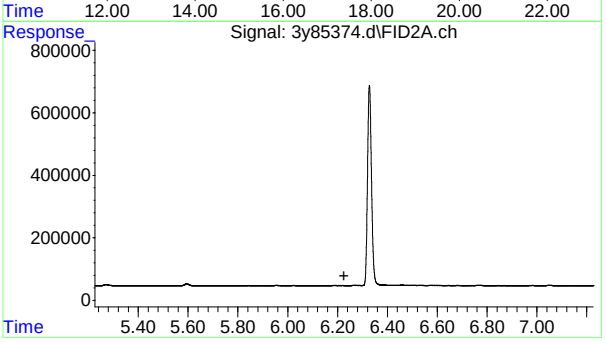
#51 C9-C18 Aliphatics

R.T.: 7.580 min
Delta R.T.: 0.000 min
Response: 51823932
Conc: 84.91 ug/L



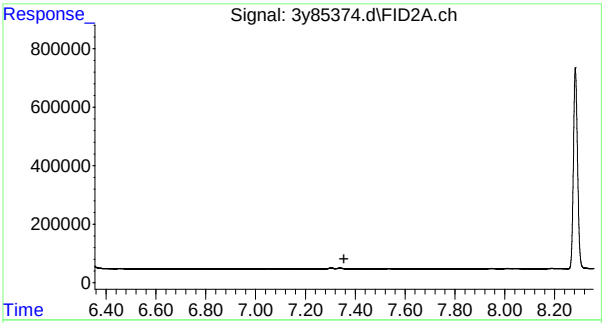
#52 C19-C36 Aliphatics

R.T.: 17.380 min
Delta R.T.: 0.000 min
Response: 121222937
Conc: 206.43 ug/L



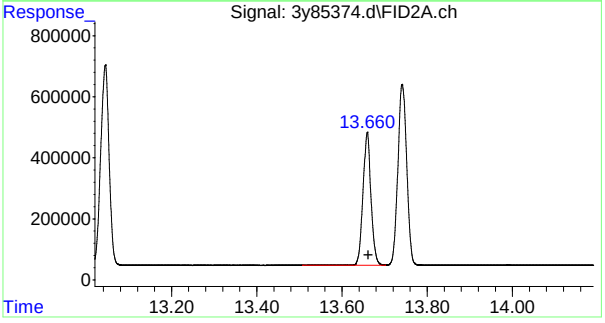
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.225 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.354 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.659 min
Delta R.T.: -0.002 min
Response: 5679268
Conc: 10.79 ug/L

7.3.1

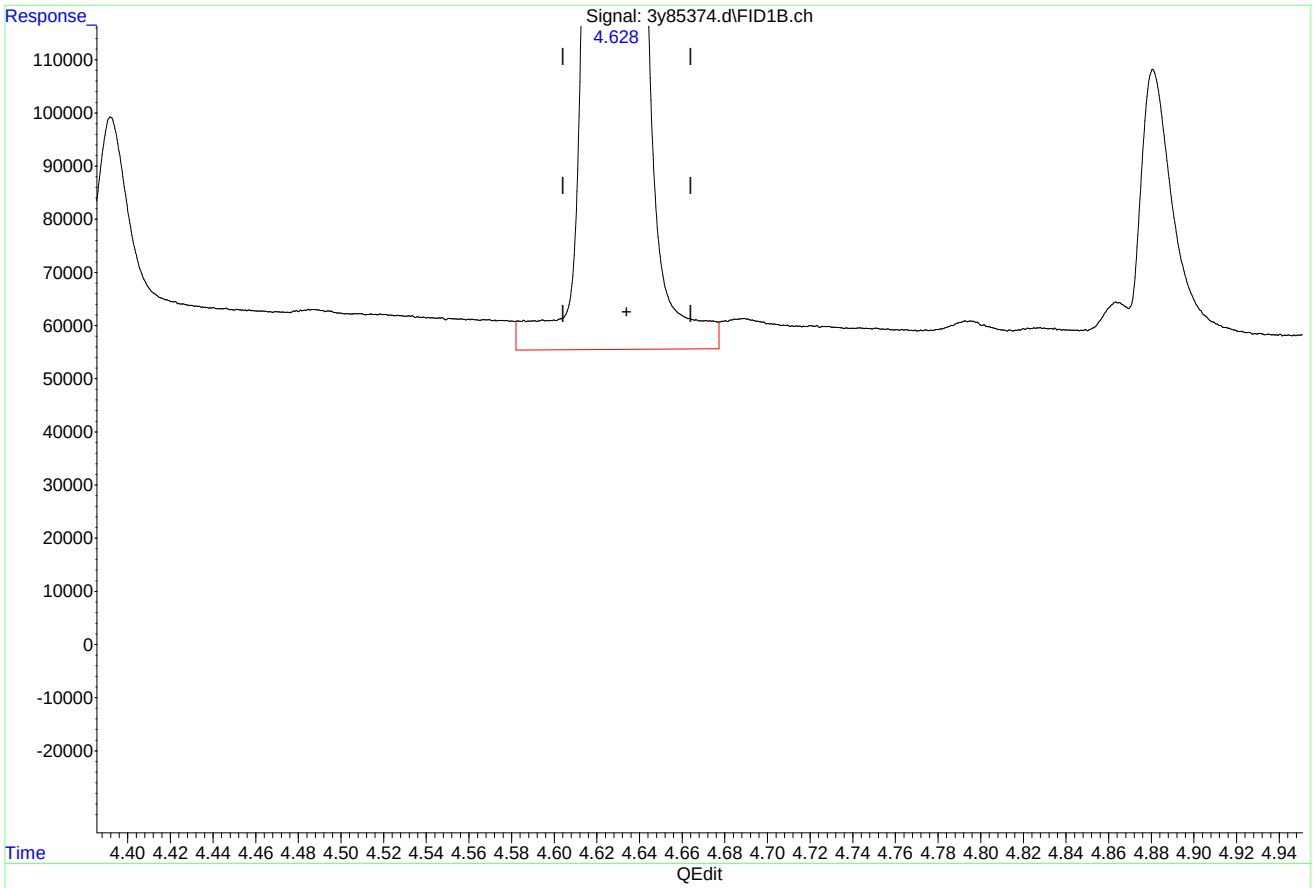
7

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85374.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  10:15 pm
Operator  : thomasl
Sample    : op41903-bs1
Misc      : op41903,g3y3348,15.0,,,2,1
ALS Vial  : 20   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:05:14 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(1) 1,2,3-Trimethylbenzene (T)

4.628min 14.319 ug/l

response 9472936

(+) = Expected Retention Time

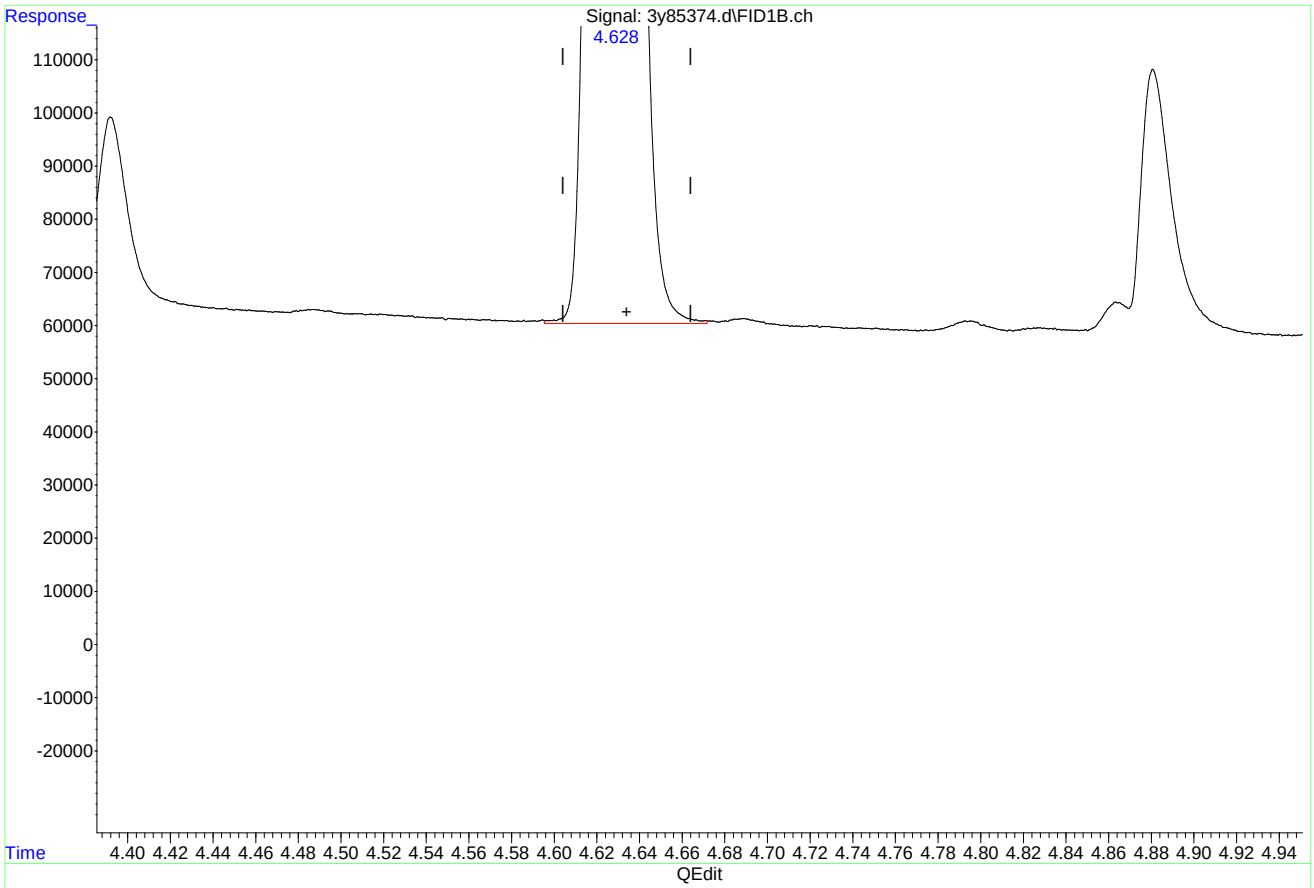
eph3y3347.m Tue Sep 27 16:05:40 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85374.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 25 Sep 2022  10:15 pm
Operator  : thomasl
Sample    : op41903-bs1
Misc      : op41903,g3y3348,15.0,,,2,1
ALS Vial  : 20   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:05:14 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(1) 1,2,3-Trimethylbenzene (T)

4.628min 13.889 ug/l m

response 9188702

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:05:44 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 3y85375.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 10:52 pm
Operator : thomasl
Sample : op41903-bsd
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:12 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.235	28013813	47.961	ug/L
26) S	o-Terphenyl (S)	12.508	8927887	14.004	ug/L
55) S	1-Chlorooctadecane (S)	13.659	6387611	12.137	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.629	10954178	16.558	ug/l
2) T	Naphthalene	6.457	11659663	16.937	ug/L
4) T	2-Methylnaphthalene	7.586	11392564	16.869	ug/L
5) T	Acenaphthylene	9.045	10567287	16.045	ug/l
6) T	Acenaphthene	9.341	11484645	16.360	ug/l
8) T	Fluorene	10.211	11431112	17.252	ug/l
9) T	Phenanthrene	11.803	11752321	18.249	ug/l
10) T	Anthracene	11.890	11618974	18.129	ug/l
11) T	Fluoranthene	13.839	11598695	18.593	ug/l
12) T	Pyrene	14.224	11673849	18.237	ug/l
14) T	Benzo(a)Anthracene	16.470	11269019	18.192	ug/l
15) T	Chrysene	16.532	10992446	17.802	ug/l
16) T	Benzo(b)Fluoranthene	18.393	10972536	18.190	ug/l
17) T	Benzo(k)Fluoranthene	18.442	11003013	18.806	ug/l
18) T	Benzo(a)Pyrene	18.918	9745199	16.633	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.625	10843918	18.704	ug/l
20) T	Dibenzo(ah)Anthracene	20.679	11160911	17.859	ug/l
21) T	Benzo(ghi)Perylene	20.977	10767824	18.599	ug/l
23) H	C11-C22 Aromatics (Un...	13.720	206363011	326.933	ug/L
28) T	C9	3.058	6642960	11.278	ug/L
29) T	C10	4.157	8067978	13.435	ug/L
30) T	C12	6.328	8625903	14.085	ug/L
32) T	C14	8.284	9078655	14.780	ug/L
33) T	C16	10.031	9977473	16.075	ug/L
35) T	C18	11.606	10443294	16.708	ug/L
36) T	C19	12.335	10229842	16.212	ug/L
37) T	C20	13.043	10040416	16.157	ug/L
38) T	C21	13.742	9572806	15.526	ug/L
40) T	C22	14.430	9880912	16.052	ug/L
41) T	C24	15.760	9666585	16.119	ug/L
42) T	C26	17.022	9406911	16.071	ug/L
43) T	C28	18.212	9074774	16.058	ug/L
44) T	C30	19.331	8761493	15.775	ug/L
45) T	C32	20.385	8580555	15.706	ug/L
46) T	C34	21.379	8423343	16.068	ug/L
47) T	C36	22.412	7996883	15.249	ug/L
48) T	C38	23.764	7984699	15.526	ug/L
49) T	C40	25.617	7985304	15.234	ug/L
51) H	C9-C18 Aliphatics	7.580	62276406	102.038	ug/L
52) H	C19-C36 Aliphatics	17.380	131978944	224.744	ug/L

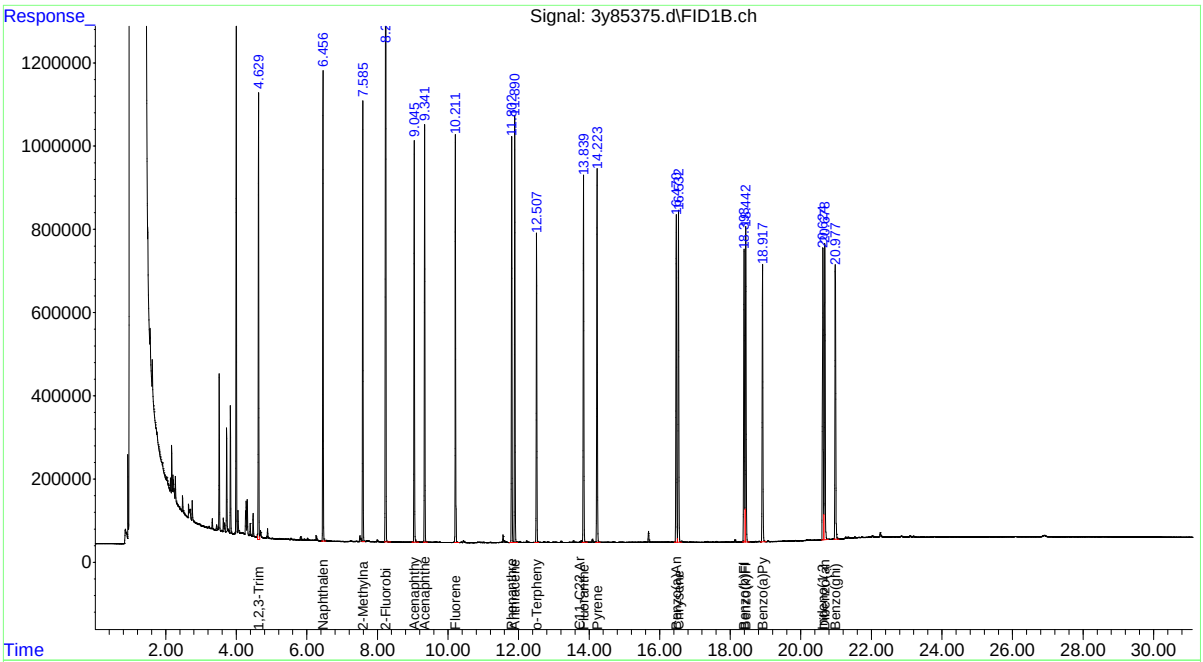
(f)=RT Delta > 1/2 Window (m)=manual int.

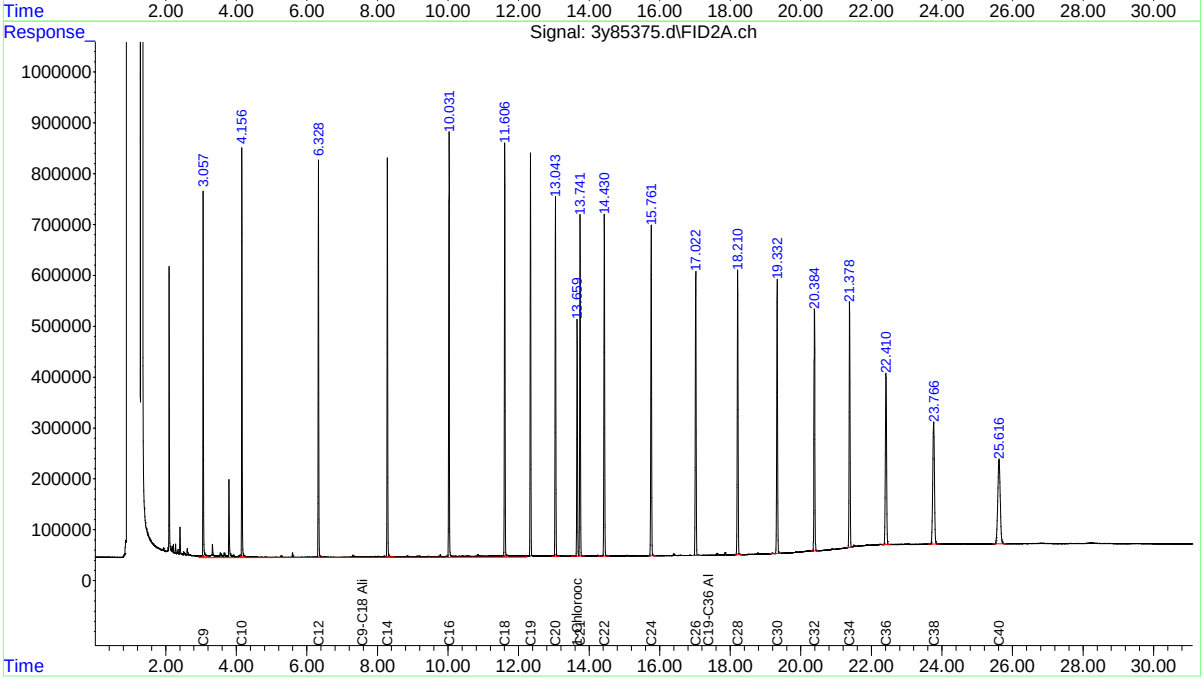
Quantitation Report (QT Reviewed)

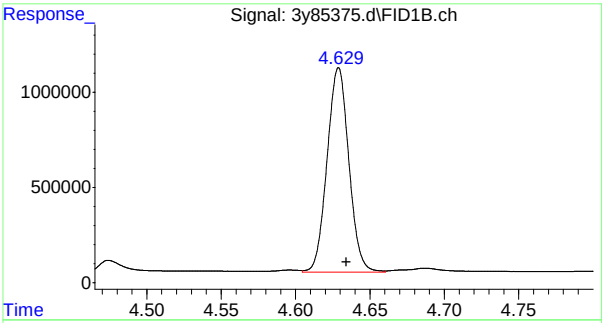
Data Path : C:\msdchem\1\data\
Data File : 3y85375.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 10:52 pm
Operator : thomasl
Sample : op41903-bsd
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:08:12 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

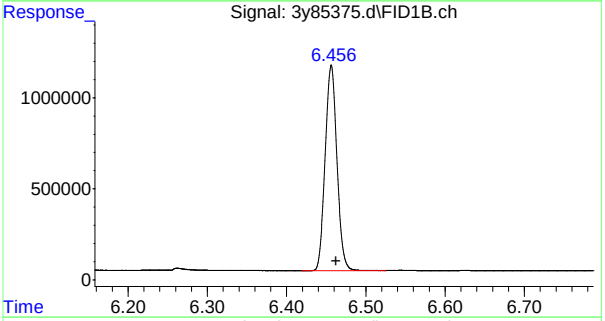






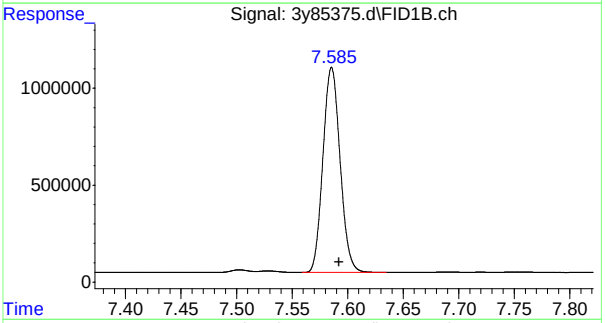
#1 1,2,3-Trimethylbenzene

R.T.: 4.629 min
Delta R.T.: -0.005 min
Response: 10954178
Conc: 16.56 ug/l



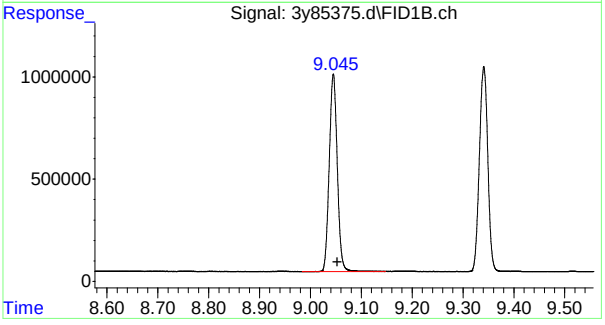
#2 Naphthalene

R.T.: 6.457 min
Delta R.T.: -0.005 min
Response: 11659663
Conc: 16.94 ug/L



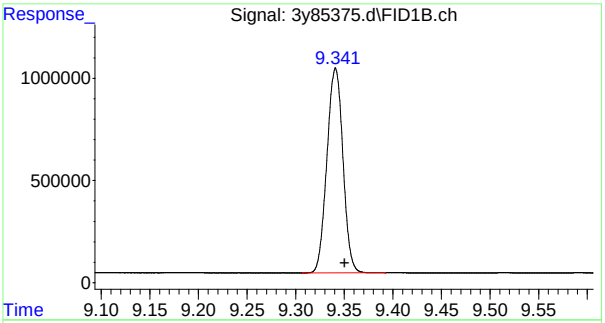
#4 2-Methylnaphthalene

R.T.: 7.586 min
Delta R.T.: -0.007 min
Response: 11392564
Conc: 16.87 ug/L



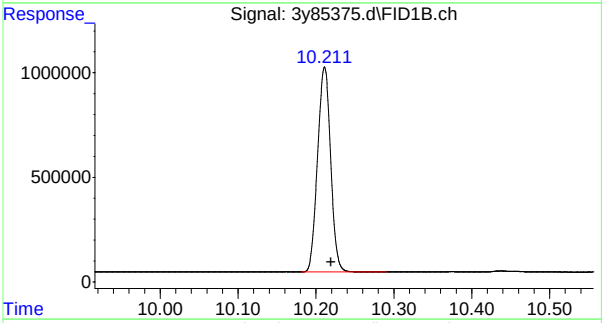
#5 Acenaphthylene

R.T.: 9.045 min
Delta R.T.: -0.007 min
Response: 10567287
Conc: 16.05 ug/l



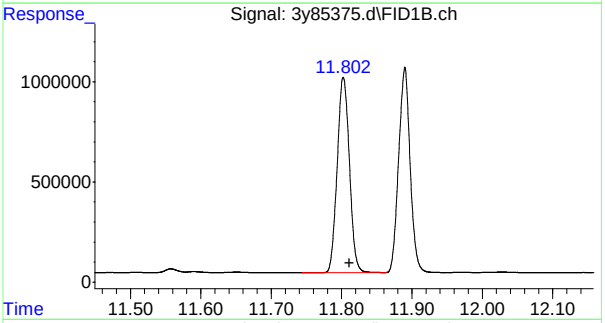
#6 Acenaphthene

R.T.: 9.341 min
Delta R.T.: -0.010 min
Response: 11484645
Conc: 16.36 ug/l



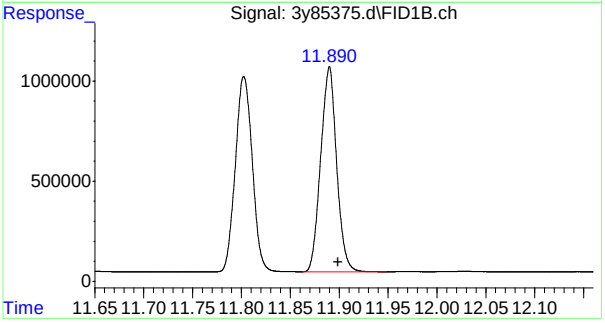
#8 Fluorene

R.T.: 10.211 min
Delta R.T.: -0.008 min
Response: 11431112
Conc: 17.25 ug/l



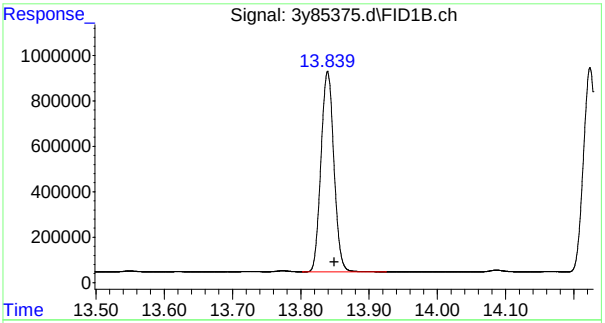
#9 Phenanthrene

R.T.: 11.803 min
Delta R.T.: -0.008 min
Response: 11752321
Conc: 18.25 ug/l



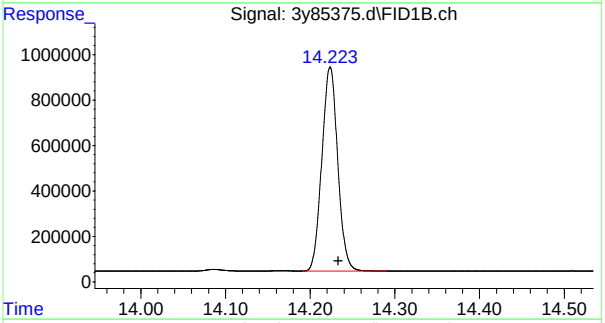
#10 Anthracene

R.T.: 11.890 min
Delta R.T.: -0.009 min
Response: 11618974
Conc: 18.13 ug/l



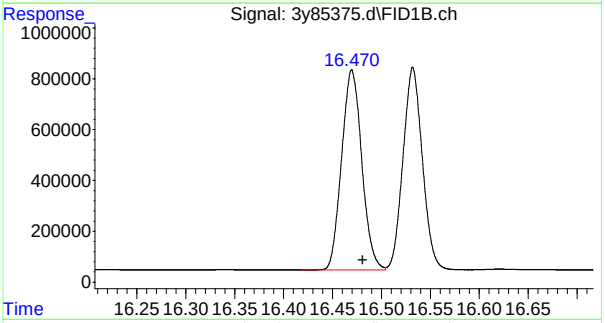
#11 Fluoranthene

R.T.: 13.839 min
Delta R.T.: -0.009 min
Response: 11598695
Conc: 18.59 ug/l



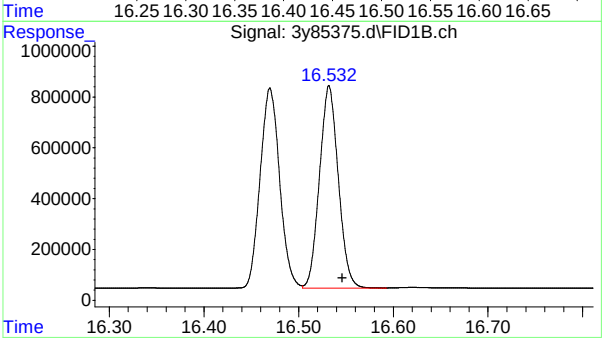
#12 Pyrene

R.T.: 14.224 min
Delta R.T.: -0.009 min
Response: 11673849
Conc: 18.24 ug/l



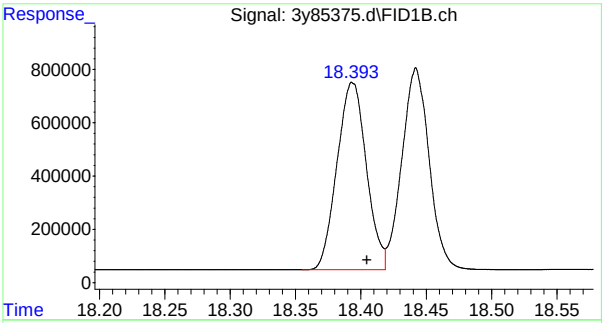
#14 Benzo(a)Anthracene

R.T.: 16.470 min
Delta R.T.: -0.011 min
Response: 11269019
Conc: 18.19 ug/l



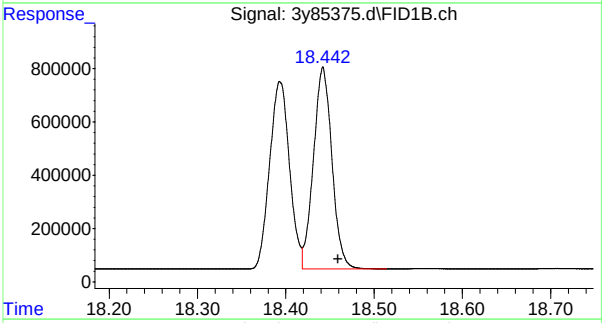
#15 Chrysene

R.T.: 16.532 min
Delta R.T.: -0.014 min
Response: 10992446
Conc: 17.80 ug/l



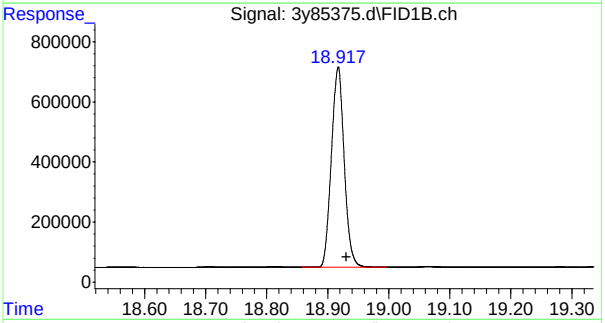
#16 Benzo(b)Fluoranthene

R.T.: 18.393 min
Delta R.T.: -0.012 min
Response: 10972536
Conc: 18.19 ug/l



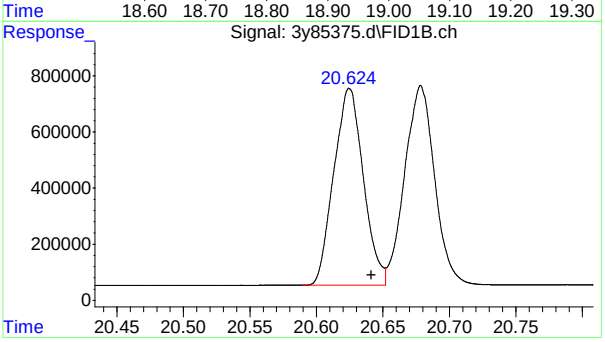
#17 Benzo(k)Fluoranthene

R.T.: 18.442 min
Delta R.T.: -0.017 min
Response: 11003013
Conc: 18.81 ug/l



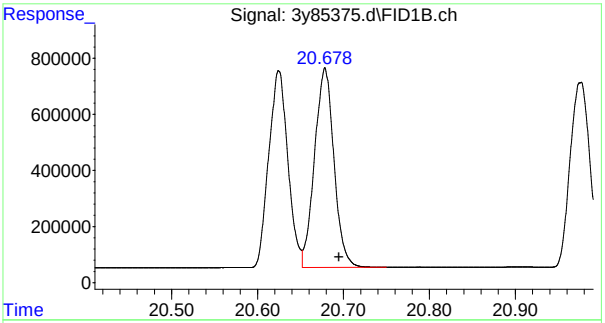
#18 Benzo(a)Pyrene

R.T.: 18.918 min
Delta R.T.: -0.013 min
Response: 9745199
Conc: 16.63 ug/l



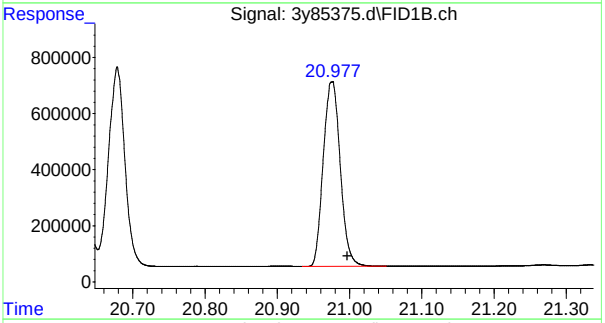
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.625 min
Delta R.T.: -0.016 min
Response: 10843918
Conc: 18.70 ug/l



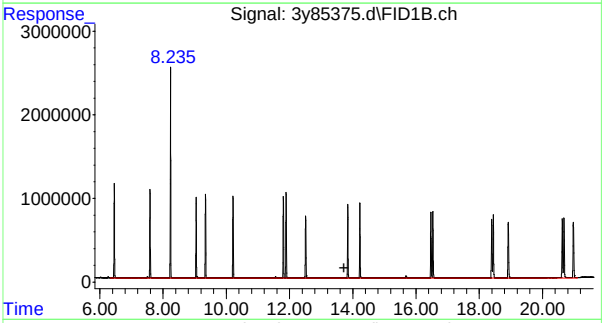
#20 Dibenzo(ah)Anthracene

R.T.: 20.679 min
Delta R.T.: -0.016 min
Response: 11160911
Conc: 17.86 ug/l



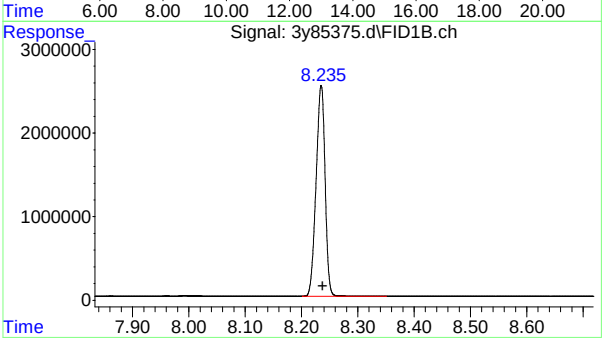
#21 Benzo(ghi)Perylene

R.T.: 20.977 min
Delta R.T.: -0.020 min
Response: 10767824
Conc: 18.60 ug/l



#23 C11-C22 Aromatics (Unadj.)

R.T.: 13.720 min
Delta R.T.: 0.000 min
Response: 206363011
Conc: 326.93 ug/L

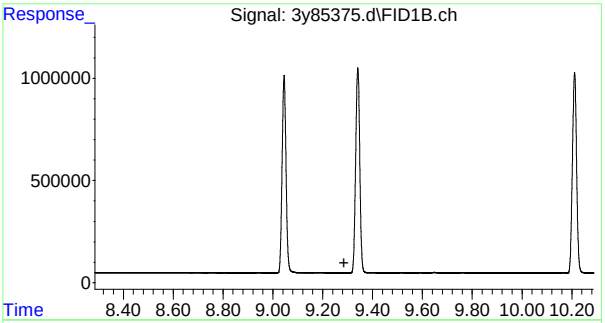


#24 2-Fluorobiphenyl (S)

R.T.: 8.235 min
Delta R.T.: -0.002 min
Response: 28013813
Conc: 47.96 ug/L

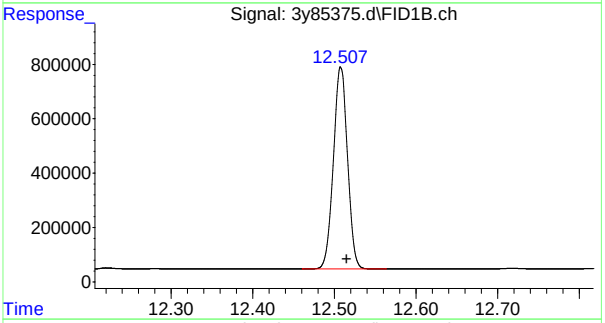
7.3.2

7



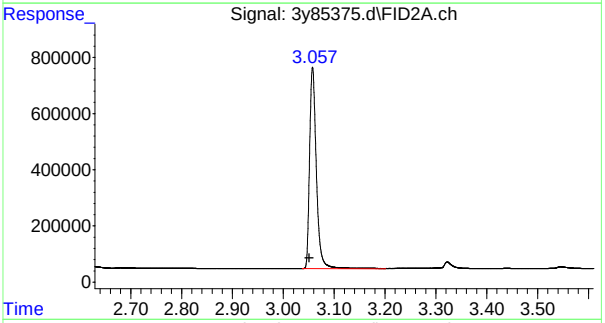
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.285 min
Response: 0
Conc: N.D.



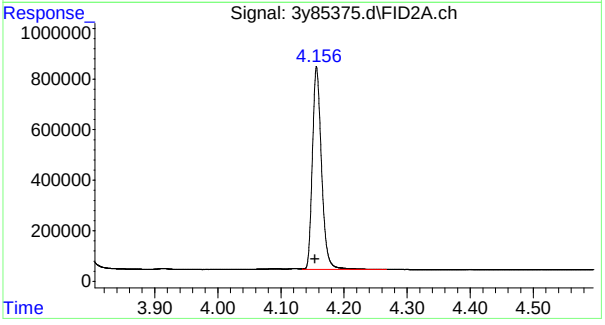
#26 o-Terphenyl (S)

R.T.: 12.508 min
Delta R.T.: -0.007 min
Response: 8927887
Conc: 14.00 ug/L



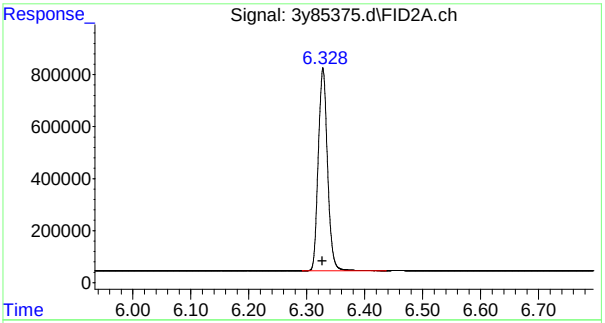
#28 C9

R.T.: 3.058 min
Delta R.T.: 0.007 min
Response: 6642960
Conc: 11.28 ug/L



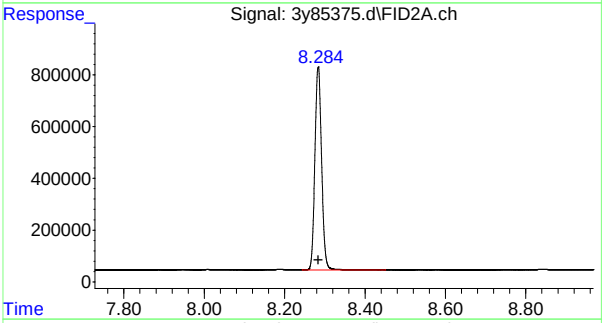
#29 C10

R.T.: 4.157 min
Delta R.T.: 0.003 min
Response: 8067978
Conc: 13.43 ug/L



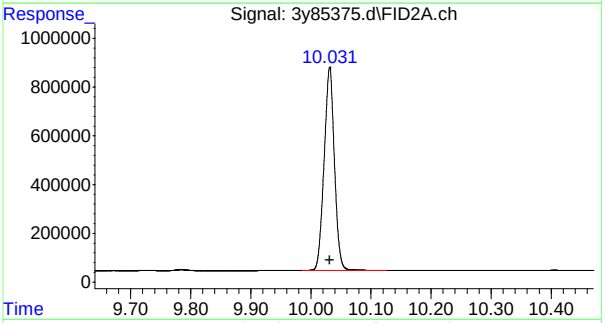
#30 C12

R.T.: 6.328 min
Delta R.T.: 0.002 min
Response: 8625903
Conc: 14.09 ug/L



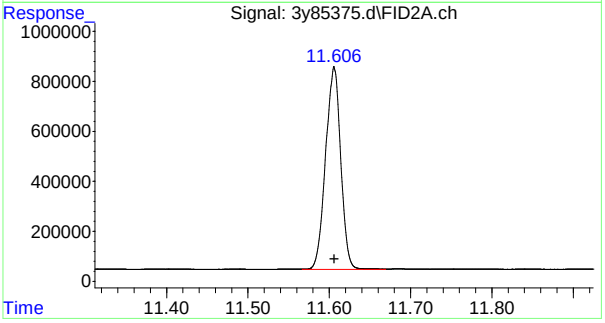
#32 C14

R.T.: 8.284 min
Delta R.T.: 0.000 min
Response: 9078655
Conc: 14.78 ug/L



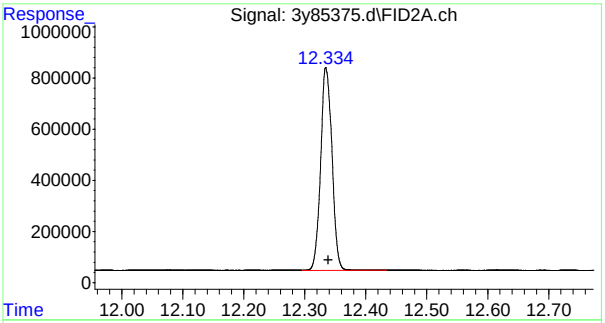
#33 C16

R.T.: 10.031 min
Delta R.T.: 0.000 min
Response: 9977473
Conc: 16.07 ug/L



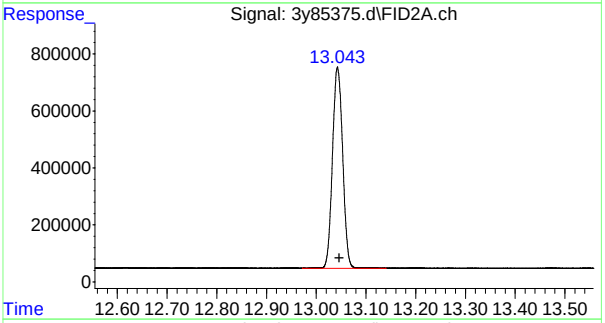
#35 C18

R.T.: 11.606 min
Delta R.T.: 0.000 min
Response: 10443294
Conc: 16.71 ug/L



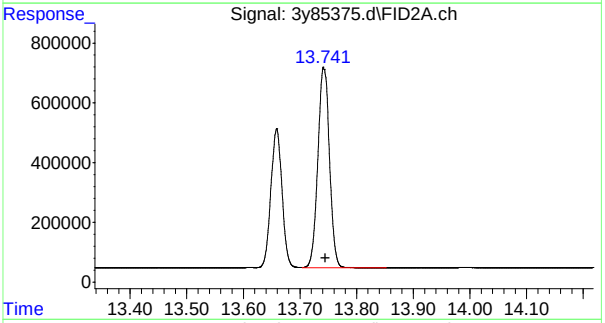
#36 C19

R.T.: 12.335 min
Delta R.T.: -0.003 min
Response: 10229842
Conc: 16.21 ug/L



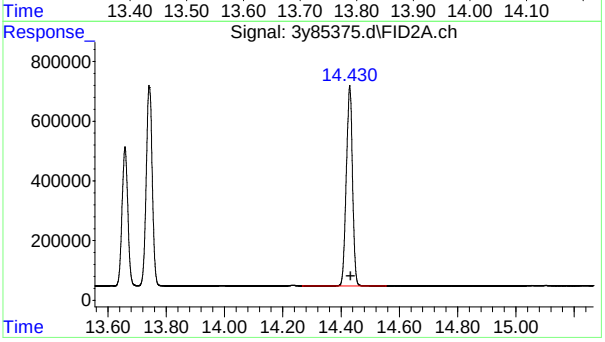
#37 C20

R.T.: 13.043 min
Delta R.T.: -0.003 min
Response: 10040416
Conc: 16.16 ug/L



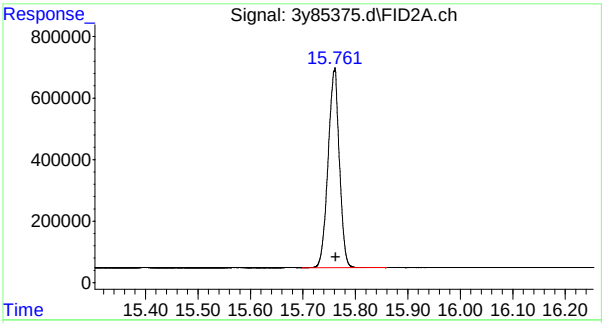
#38 C21

R.T.: 13.742 min
Delta R.T.: -0.002 min
Response: 9572806
Conc: 15.53 ug/L



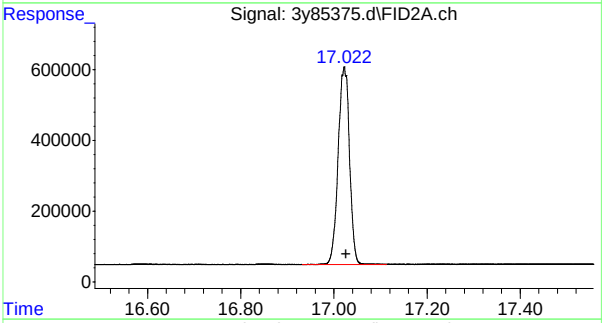
#40 C22

R.T.: 14.430 min
Delta R.T.: -0.002 min
Response: 9880912
Conc: 16.05 ug/L



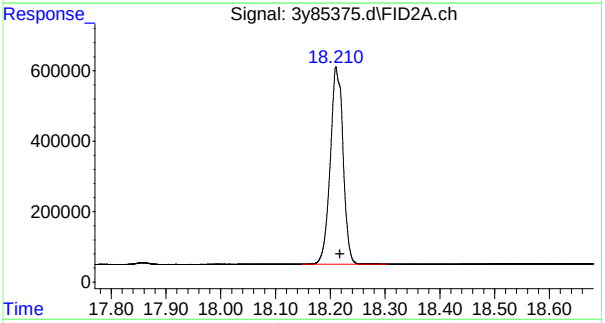
#41 C24

R.T.: 15.760 min
Delta R.T.: -0.002 min
Response: 9666585
Conc: 16.12 ug/L



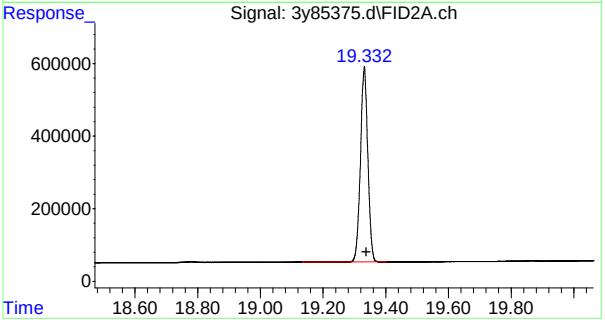
#42 C26

R.T.: 17.022 min
Delta R.T.: -0.003 min
Response: 9406911
Conc: 16.07 ug/L



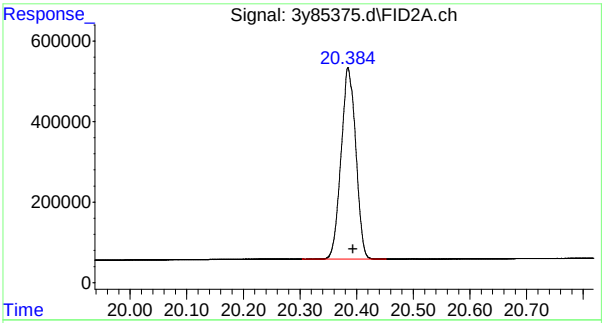
#43 C28

R.T.: 18.212 min
Delta R.T.: -0.006 min
Response: 9074774
Conc: 16.06 ug/L



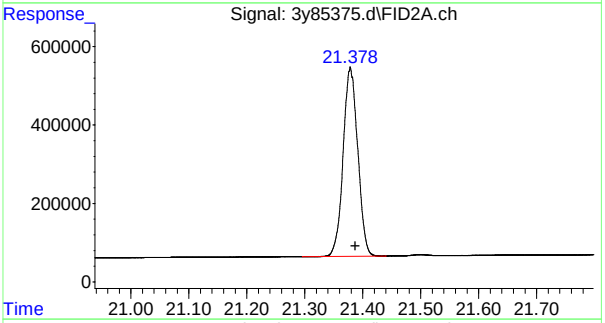
#44 C30

R.T.: 19.331 min
Delta R.T.: -0.007 min
Response: 8761493
Conc: 15.78 ug/L



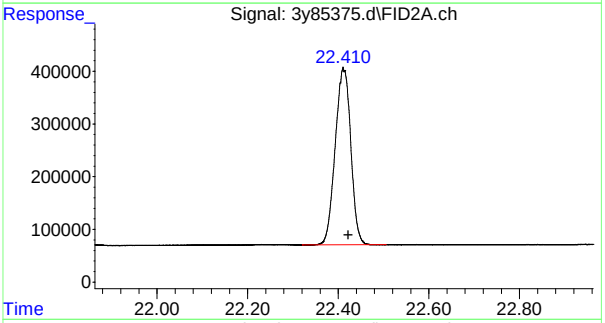
#45 C32

R.T.: 20.385 min
Delta R.T.: -0.008 min
Response: 8580555
Conc: 15.71 ug/L



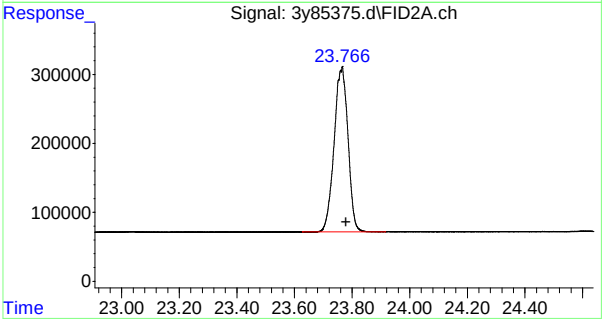
#46 C34

R.T.: 21.379 min
Delta R.T.: -0.009 min
Response: 8423343
Conc: 16.07 ug/L



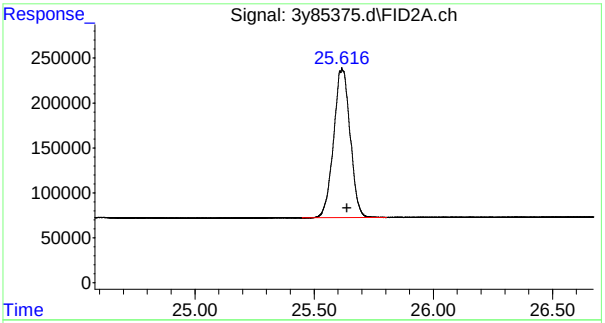
#47 C36

R.T.: 22.412 min
Delta R.T.: -0.011 min
Response: 7996883
Conc: 15.25 ug/L



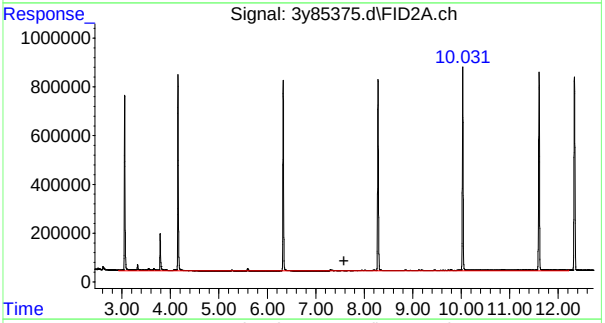
#48 C38

R.T.: 23.764 min
Delta R.T.: -0.014 min
Response: 7984699
Conc: 15.53 ug/L



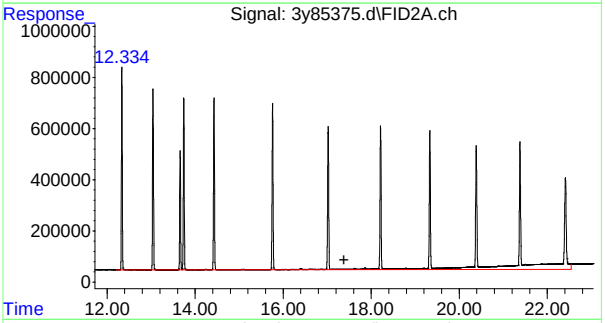
#49 C40

R.T.: 25.617 min
Delta R.T.: -0.020 min
Response: 7985304
Conc: 15.23 ug/L



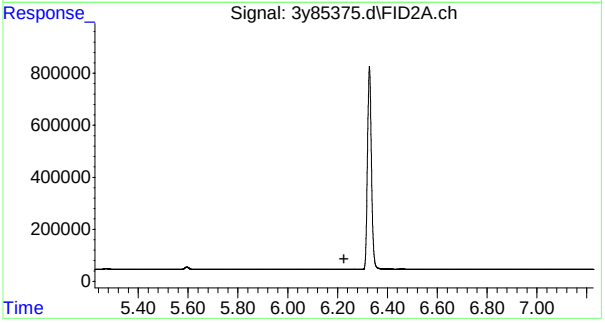
#51 C9-C18 Aliphatics

R.T.: 7.580 min
Delta R.T.: 0.000 min
Response: 62276406
Conc: 102.04 ug/L



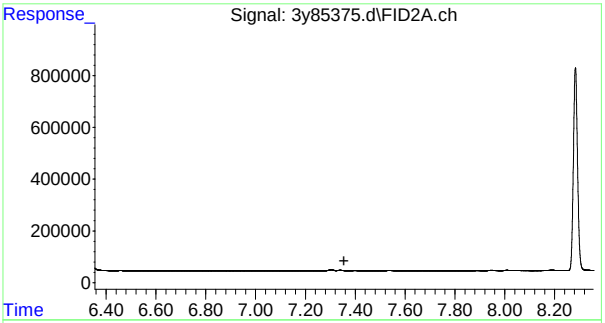
#52 C19-C36 Aliphatics

R.T.: 17.380 min
Delta R.T.: 0.000 min
Response: 131978944
Conc: 224.74 ug/L



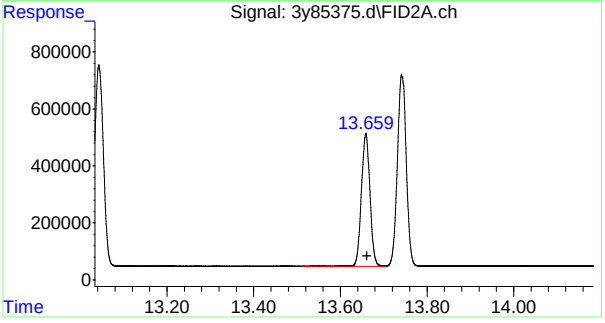
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.225 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.354 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.659 min
Delta R.T.: -0.002 min
Response: 6387611
Conc: 12.14 ug/L

7.3.2

7

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
09/27/22 16:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:25:08 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
24) S	2-Fluorobiphenyl (S)	8.231	2843622	4.868 ug/L
26) S	o-Terphenyl (S)	12.483f	2535271	3.977 ug/L m
55) S	1-Chlorooctadecane (S)	13.658	128390	0.244 ug/L m
Target Compounds				
1) T	1,2,3-Trimethylbenzene	4.628	379799	0.574 ug/l m
2) T	Naphthalene	6.455	1358941	1.974 ug/L
4) T	2-Methylnaphthalene	7.586	4215220	6.242 ug/L
5) T	Acenaphthylene	9.071f	1127150	1.711 ug/l m
6) T	Acenaphthene	9.336	1483115	2.113 ug/l
8) T	Fluorene	10.219	1487215	2.245 ug/l m
9) T	Phenanthrene	11.802	1793847	2.786 ug/l m
10) T	Anthracene	11.890	582157	0.908 ug/l m
11) T	Fluoranthene	13.843	1396322	2.238 ug/l m
12) T	Pyrene	14.224	1061135	1.658 ug/l m
14) T	Benzo(a)Anthracene	16.496	1231373	1.988 ug/l m
15) T	Chrysene	16.527f	267387	0.433 ug/l m
16) T	Benzo(b)Fluoranthene	18.410	491028	0.814 ug/l m
17) T	Benzo(k)Fluoranthene	18.441	555948	0.950 ug/l m
18) T	Benzo(a)Pyrene	18.920	124989	0.213 ug/l m
19) T	Indeno(1,2,3-cd)Pyrene	20.644	99782	0.172 ug/l m
20) T	Dibenzo(ah)Anthracene	20.683	191683	0.307 ug/l m
21) T	Benzo(ghi)Perylene	20.978	75079	0.130 ug/l m
23) H	C11-C22 Aromatics (Un...	13.720	995107927	1576.511 ug/L
51) H	C9-C18 Aliphatics	7.580	323460634	529.981 ug/L
52) H	C19-C36 Aliphatics	17.380	1533345750	2611.099 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
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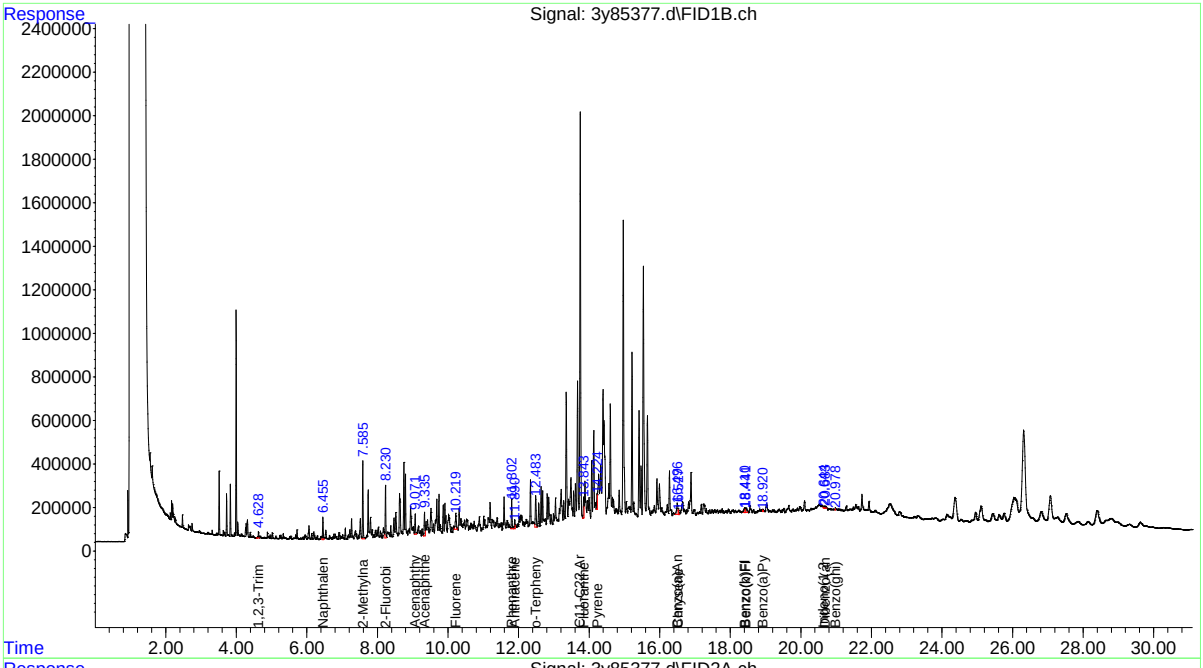
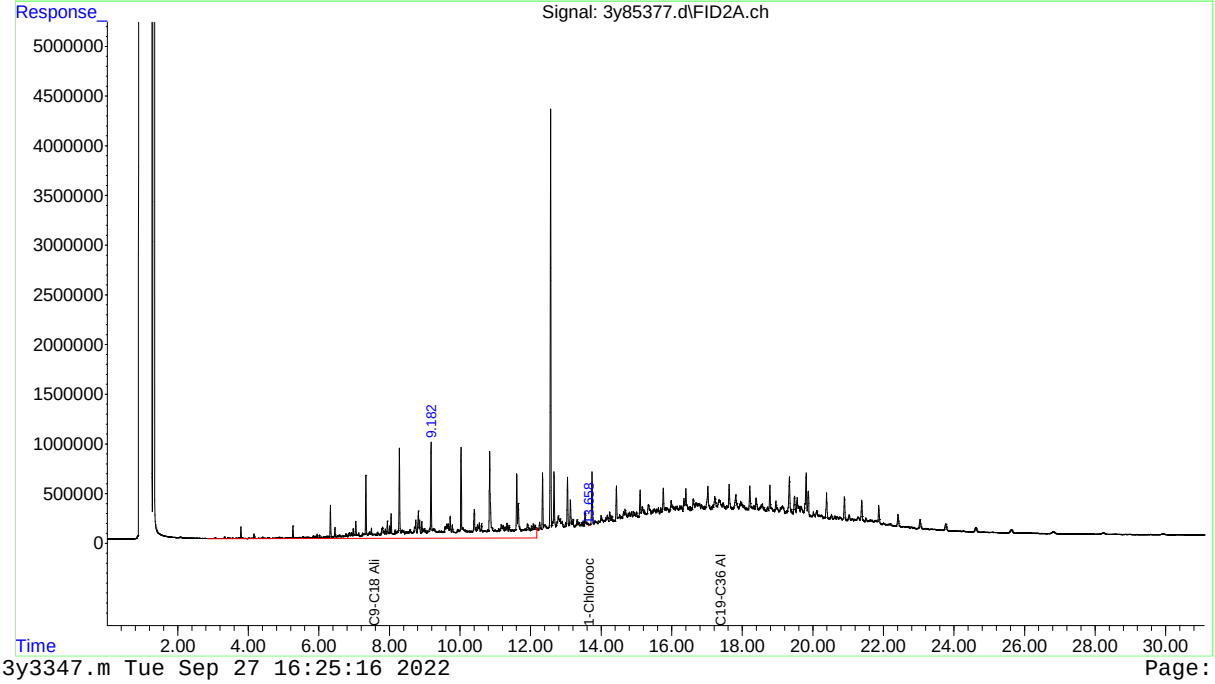
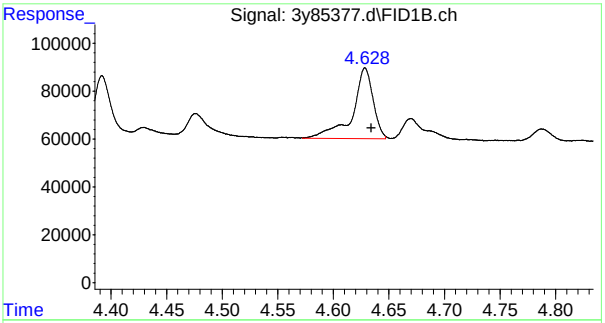
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:25:08 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

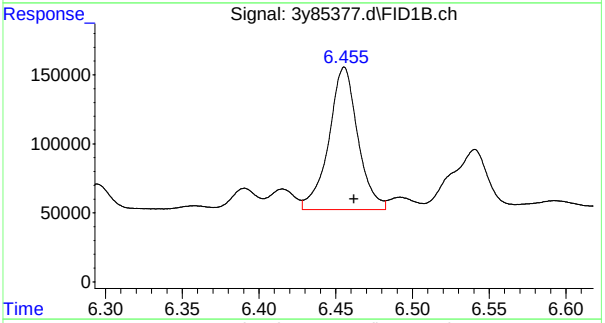






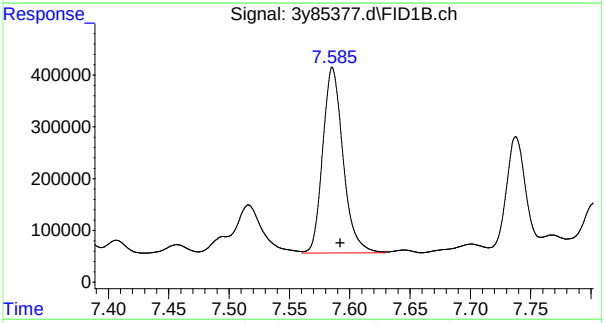
#1 1,2,3-Trimethylbenzene

R.T.: 4.628 min
Delta R.T.: -0.006 min
Response: 379799
Conc: 0.57 ug/l m



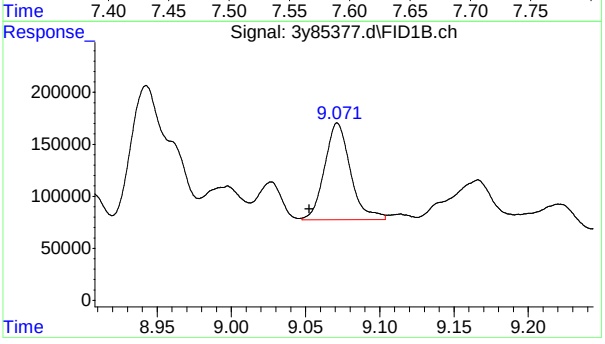
#2 Naphthalene

R.T.: 6.455 min
Delta R.T.: -0.006 min
Response: 1358941
Conc: 1.97 ug/L



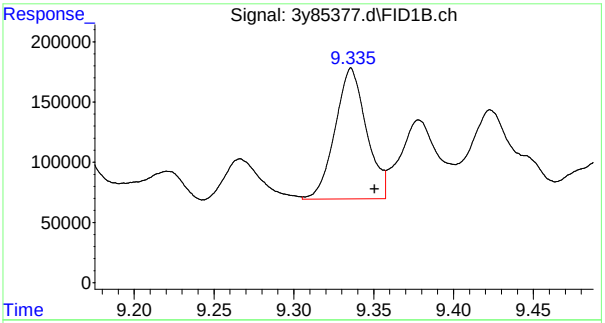
#4 2-Methylnaphthalene

R.T.: 7.586 min
Delta R.T.: -0.006 min
Response: 4215220
Conc: 6.24 ug/L



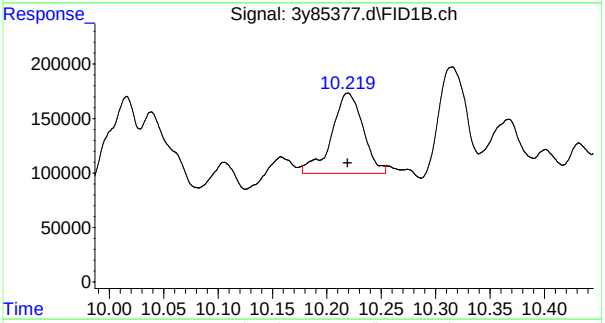
#5 Acenaphthylene

R.T.: 9.071 min
Delta R.T.: 0.019 min
Response: 1127150
Conc: 1.71 ug/l m



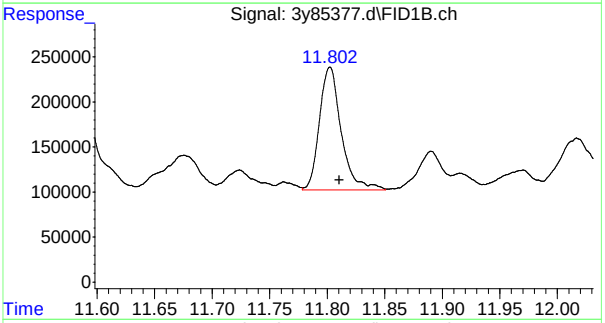
#6 Acenaphthene

R.T.: 9.336 min
Delta R.T.: -0.015 min
Response: 1483115
Conc: 2.11 ug/l



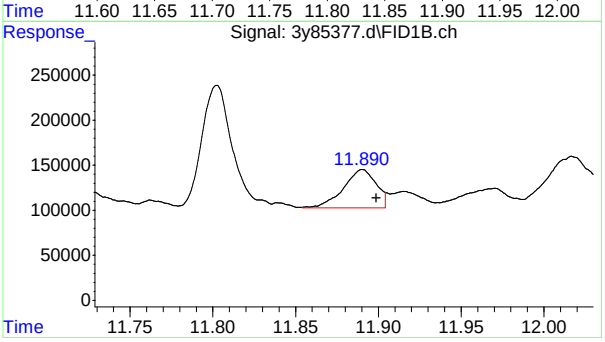
#8 Fluorene

R.T.: 10.219 min
Delta R.T.: 0.000 min
Response: 1487215
Conc: 2.24 ug/l m



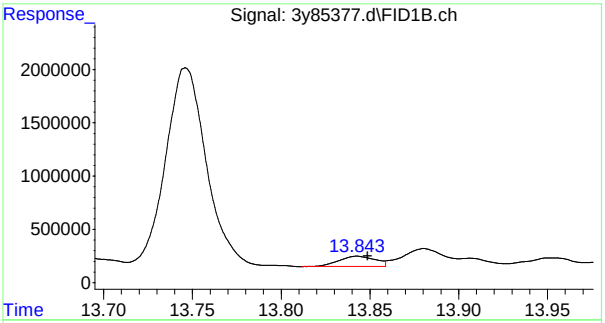
#9 Phenanthrene

R.T.: 11.802 min
Delta R.T.: -0.008 min
Response: 1793847
Conc: 2.79 ug/l m



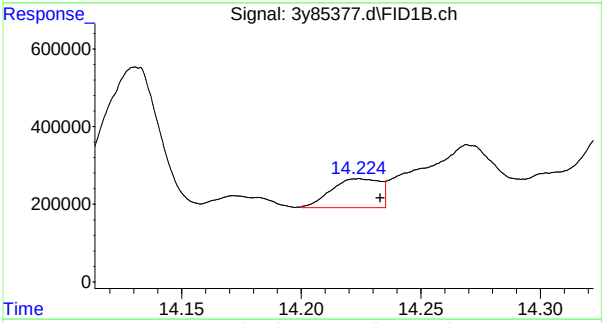
#10 Anthracene

R.T.: 11.890 min
Delta R.T.: -0.009 min
Response: 582157
Conc: 0.91 ug/l m



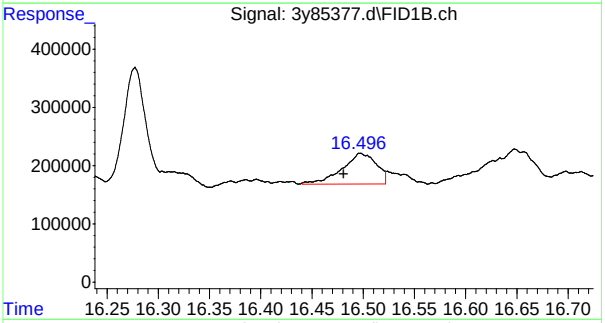
#11 Fluoranthene

R.T.: 13.843 min
Delta R.T.: -0.006 min
Response: 1396322
Conc: 2.24 ug/l m



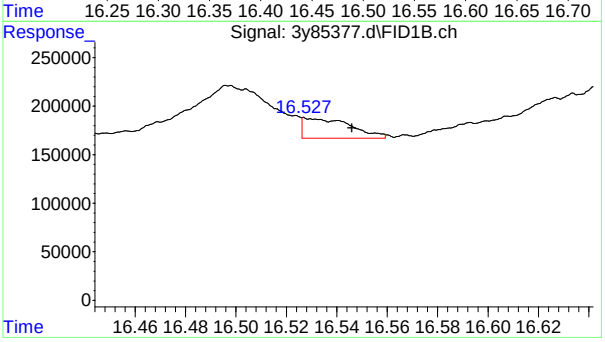
#12 Pyrene

R.T.: 14.224 min
Delta R.T.: -0.009 min
Response: 1061135
Conc: 1.66 ug/l m



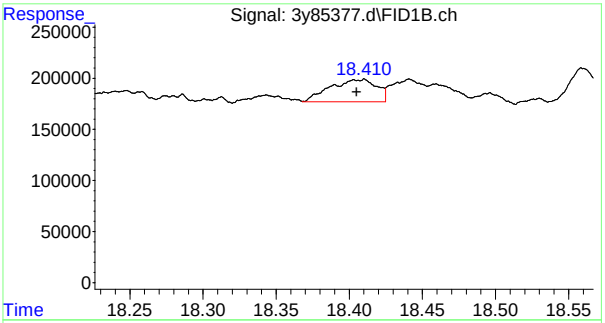
#14 Benzo(a)Anthracene

R.T.: 16.496 min
Delta R.T.: 0.015 min
Response: 1231373
Conc: 1.99 ug/l m



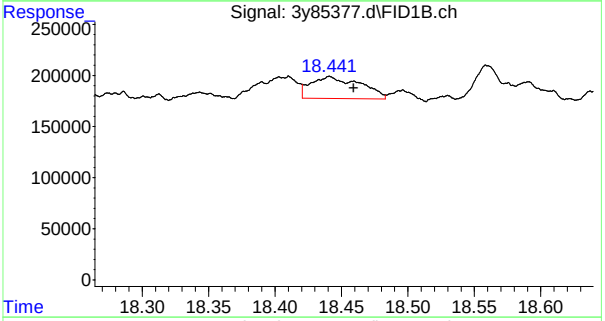
#15 Chrysene

R.T.: 16.527 min
Delta R.T.: -0.019 min
Response: 267387
Conc: 0.43 ug/l m



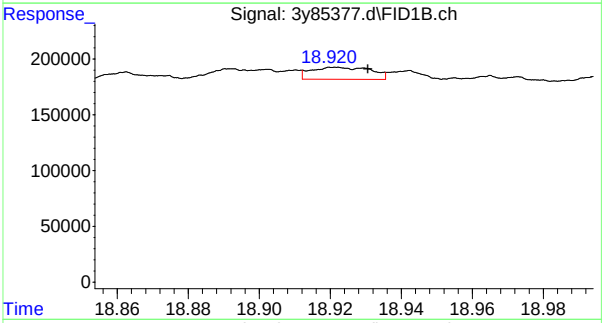
#16 Benzo(b)Fluoranthene

R.T.: 18.410 min
Delta R.T.: 0.005 min
Response: 491028
Conc: 0.81 ug/l m



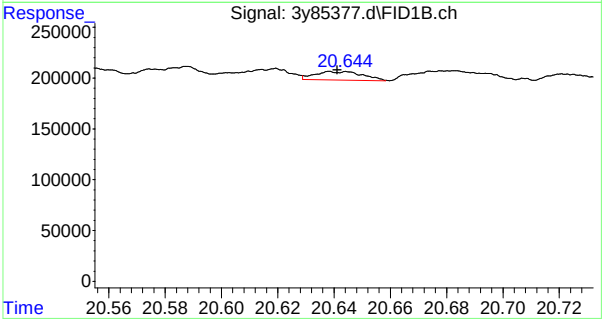
#17 Benzo(k)Fluoranthene

R.T.: 18.441 min
Delta R.T.: -0.018 min
Response: 555948
Conc: 0.95 ug/l m



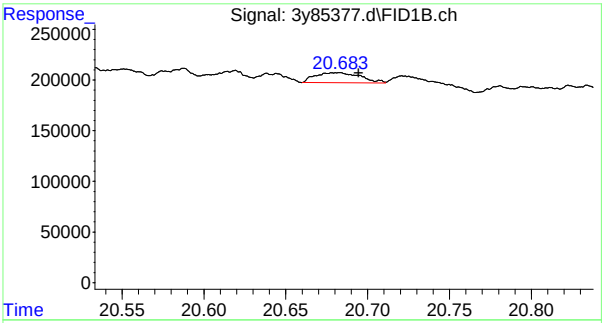
#18 Benzo(a)Pyrene

R.T.: 18.920 min
Delta R.T.: -0.011 min
Response: 124989
Conc: 0.21 ug/l m



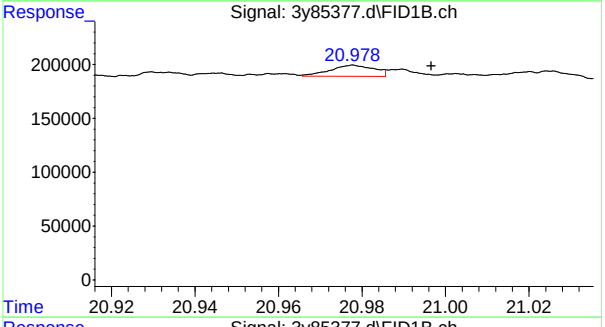
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.644 min
Delta R.T.: 0.003 min
Response: 99782
Conc: 0.17 ug/l m



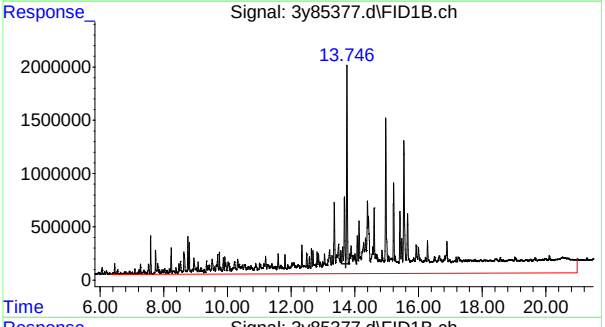
#20 Dibenzo(ah)Anthracene

R.T.: 20.683 min
Delta R.T.: -0.011 min
Response: 191683
Conc: 0.31 ug/l m



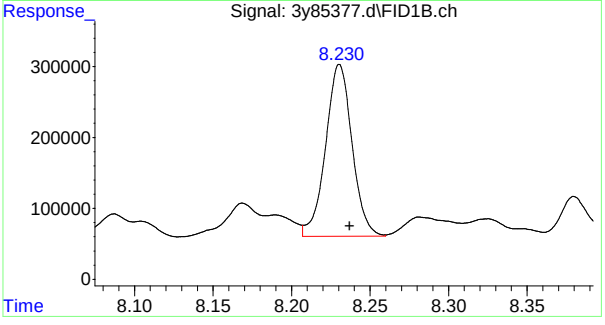
#21 Benzo(ghi)Perylene

R.T.: 20.978 min
Delta R.T.: -0.019 min
Response: 75079
Conc: 0.13 ug/l m



#23 C11-C22 Aromatics (Unadj.)

R.T.: 13.720 min
Delta R.T.: 0.000 min
Response: 995107927
Conc: 1576.51 ug/L

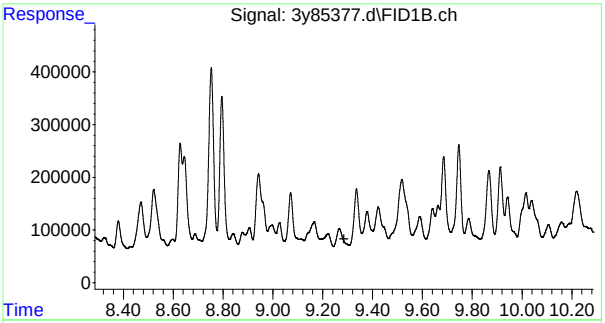


#24 2-Fluorobiphenyl (S)

R.T.: 8.231 min
Delta R.T.: -0.006 min
Response: 2843622
Conc: 4.87 ug/L

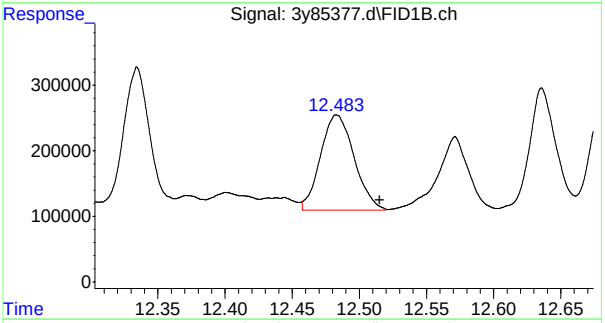
7.4.1

7



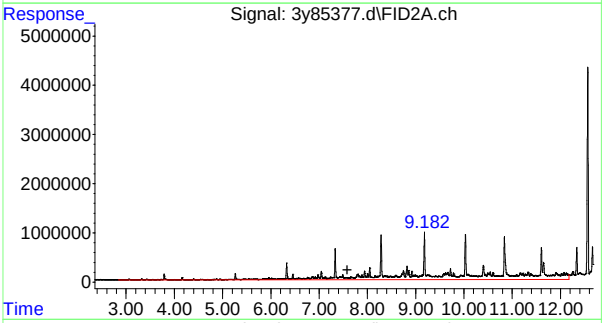
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.285 min
Response: 0
Conc: N.D.



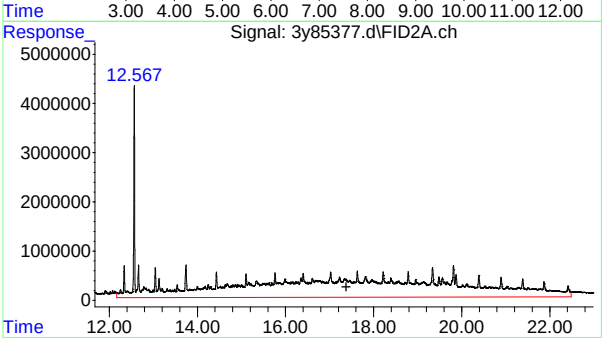
#26 o-Terphenyl (S)

R.T.: 12.483 min
Delta R.T.: -0.032 min
Response: 2535271
Conc: 3.98 ug/L m



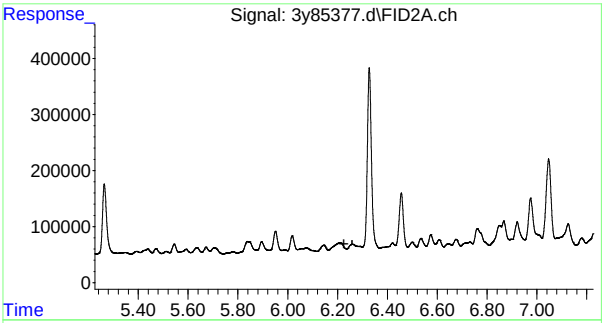
#51 C9-C18 Aliphatics

R.T.: 7.580 min
Delta R.T.: 0.000 min
Response: 323460634
Conc: 529.98 ug/L



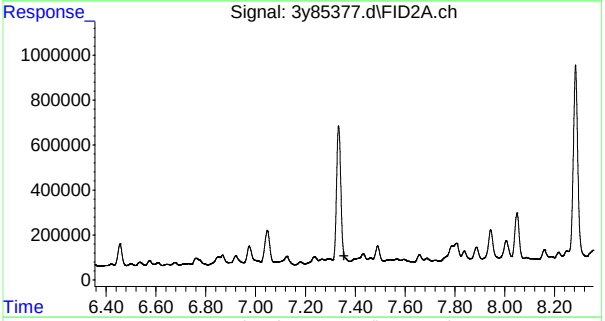
#52 C19-C36 Aliphatics

R.T.: 17.380 min
Delta R.T.: 0.000 min
Response: 1533345750
Conc: 2611.10 ug/L



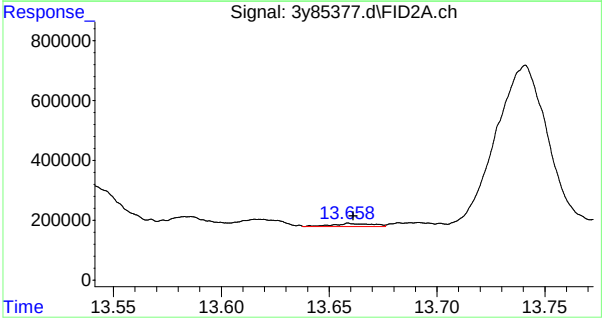
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.225 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.354 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.658 min
Delta R.T.: -0.003 min
Response: 128390
Conc: 0.24 ug/L m

7.4.1

7

Manual Integration Approval Summary

Sample Number: OP41903-MS
Lab FileID: 3Y85377.D
Injection Time: 09/26/22 00:05
Method: MADEP EPH REV 2.1
Analyst approved: 09/27/22 16:33 Gwendolyn Burns
Supervisor approved: 09/27/22 16:34 Gwendolyn Burns

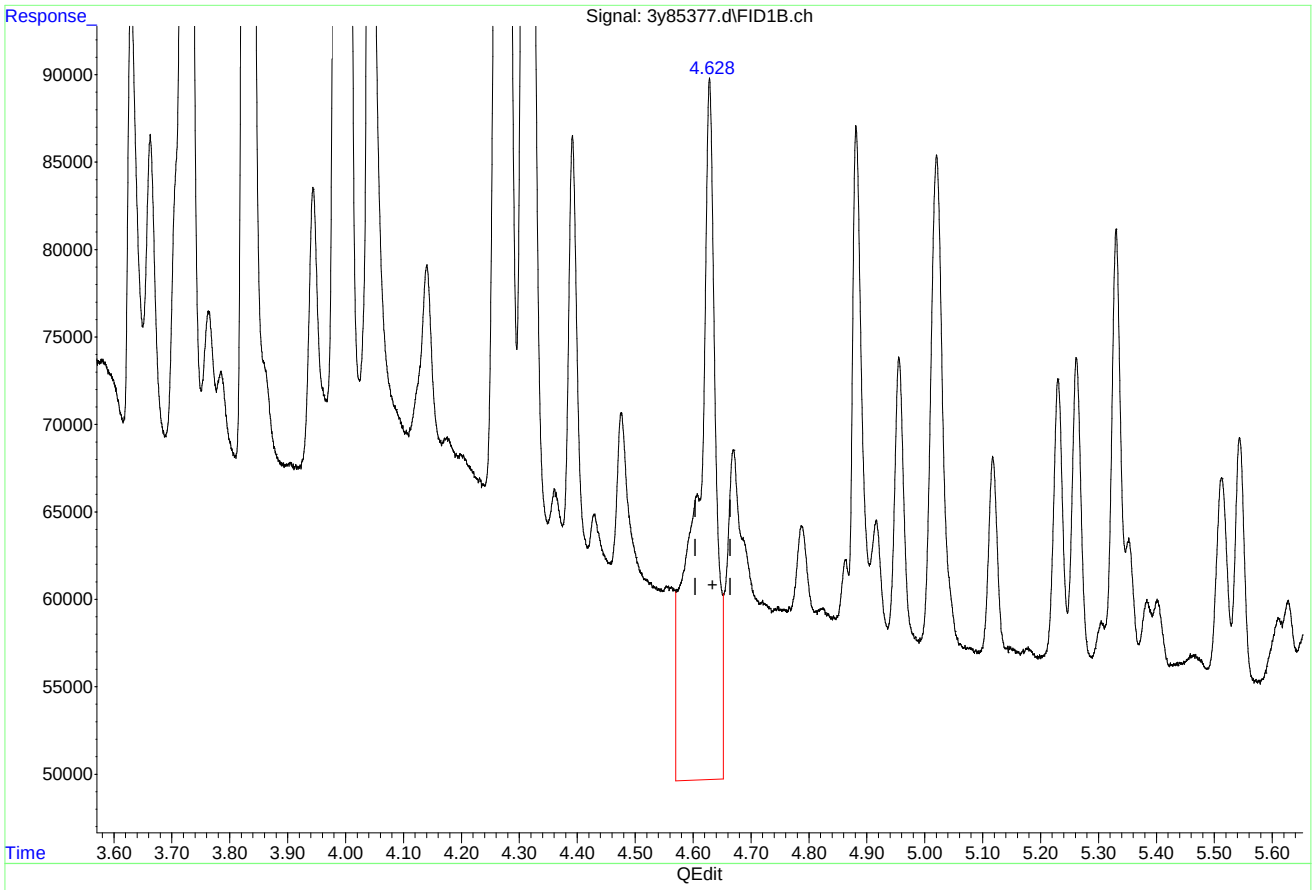
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acenaphthylene	208-96-8	1	9.07	Poorly defined baseline
Fluorene	86-73-7	1	10.22	Poorly defined baseline
Phenanthrene	85-01-8	1	11.80	Poorly defined baseline
Anthracene	120-12-7	1	11.89	Poorly defined baseline
o-Terphenyl	84-15-1	1	12.48	Poorly defined baseline
1-Chlorooctadecane	3386-33-2	2	13.66	Poorly defined baseline
Fluoranthene	206-44-0	1	13.84	Poorly defined baseline
Pyrene	129-00-0	1	14.22	Poorly defined baseline
Benzo(a)anthracene	56-55-3	1	16.50	Poorly defined baseline
Chrysene	218-01-9	1	16.53	Poorly defined baseline
Benzo(b)fluoranthene	205-99-2	1	18.41	Poorly defined baseline
Benzo(k)fluoranthene	207-08-9	1	18.44	Poorly defined baseline
Benzo(a)pyrene	50-32-8	1	18.92	Poorly defined baseline
Indeno(1,2,3-cd)pyrene	193-39-5	1	20.64	Poorly defined baseline
Dibenzo(a,h)anthracene	53-70-3	1	20.68	Poorly defined baseline
Benzo(g,h,i)perylene	191-24-2	1	20.98	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.629min 1.366 ug/l

response 903764

(+) = Expected Retention Time

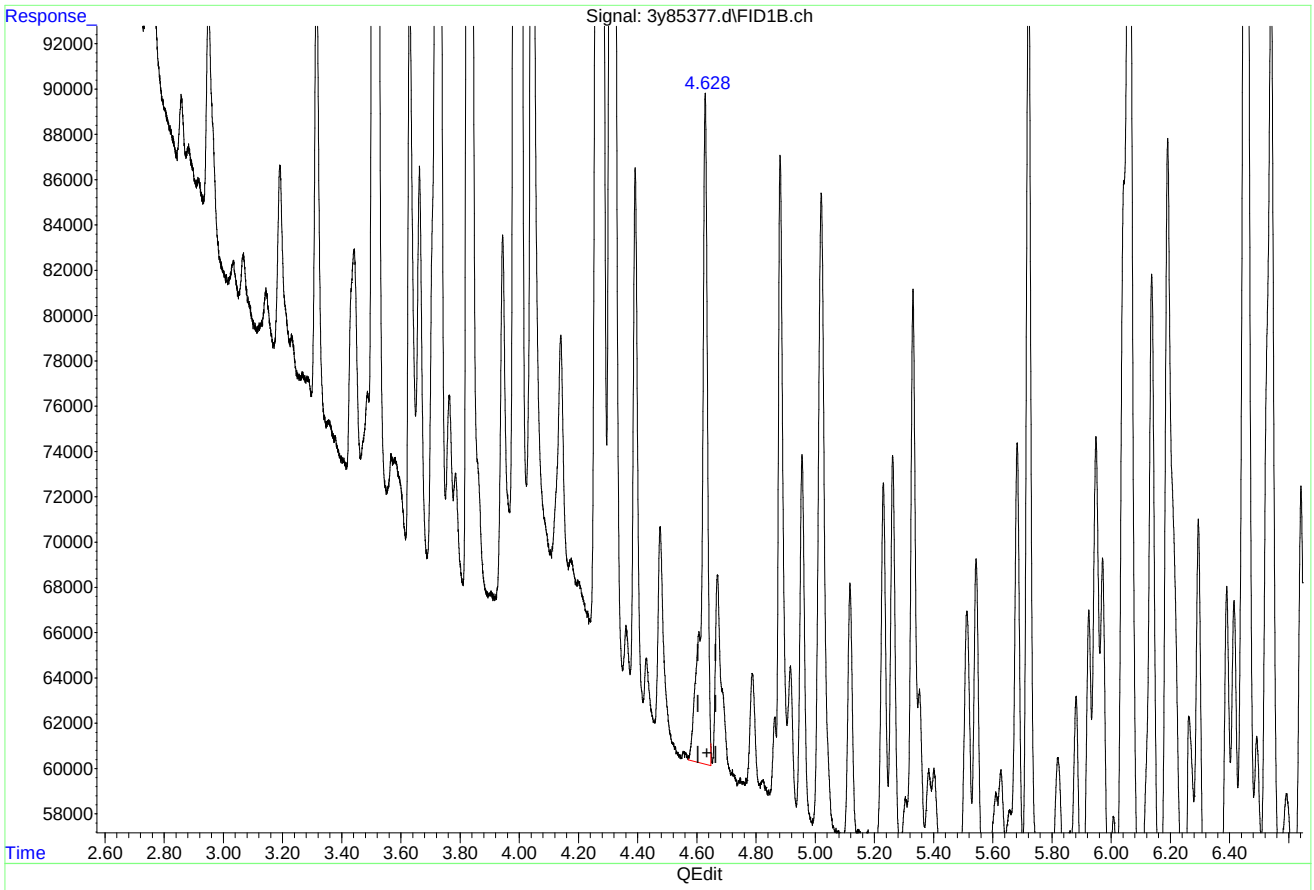
eph3y3347.m Tue Sep 27 16:20:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.628min 0.574 ug/l m

response 379799

(+) = Expected Retention Time

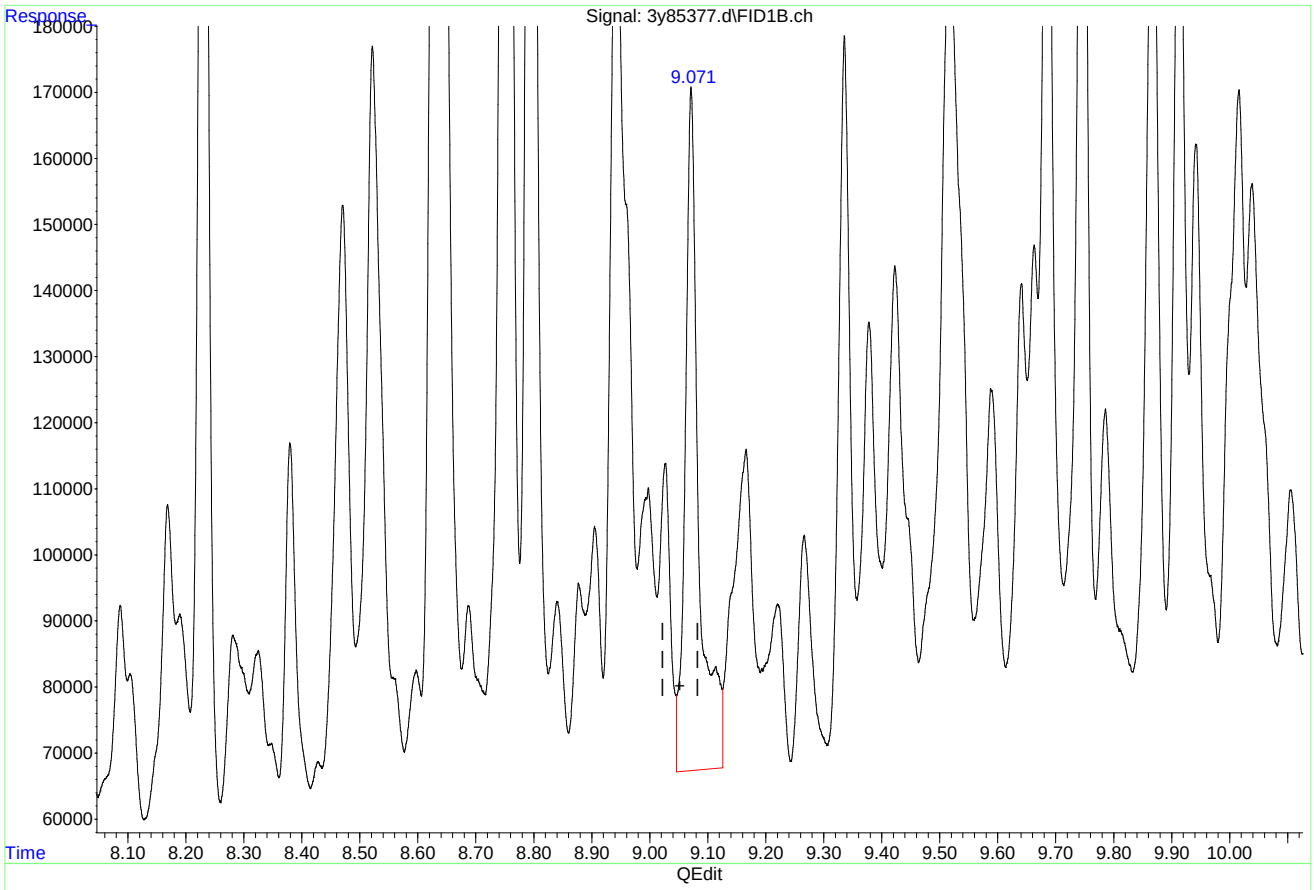
eph3y3347.m Tue Sep 27 16:20:50 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.072min 2.528 ug/l

response 1664723

(+) = Expected Retention Time

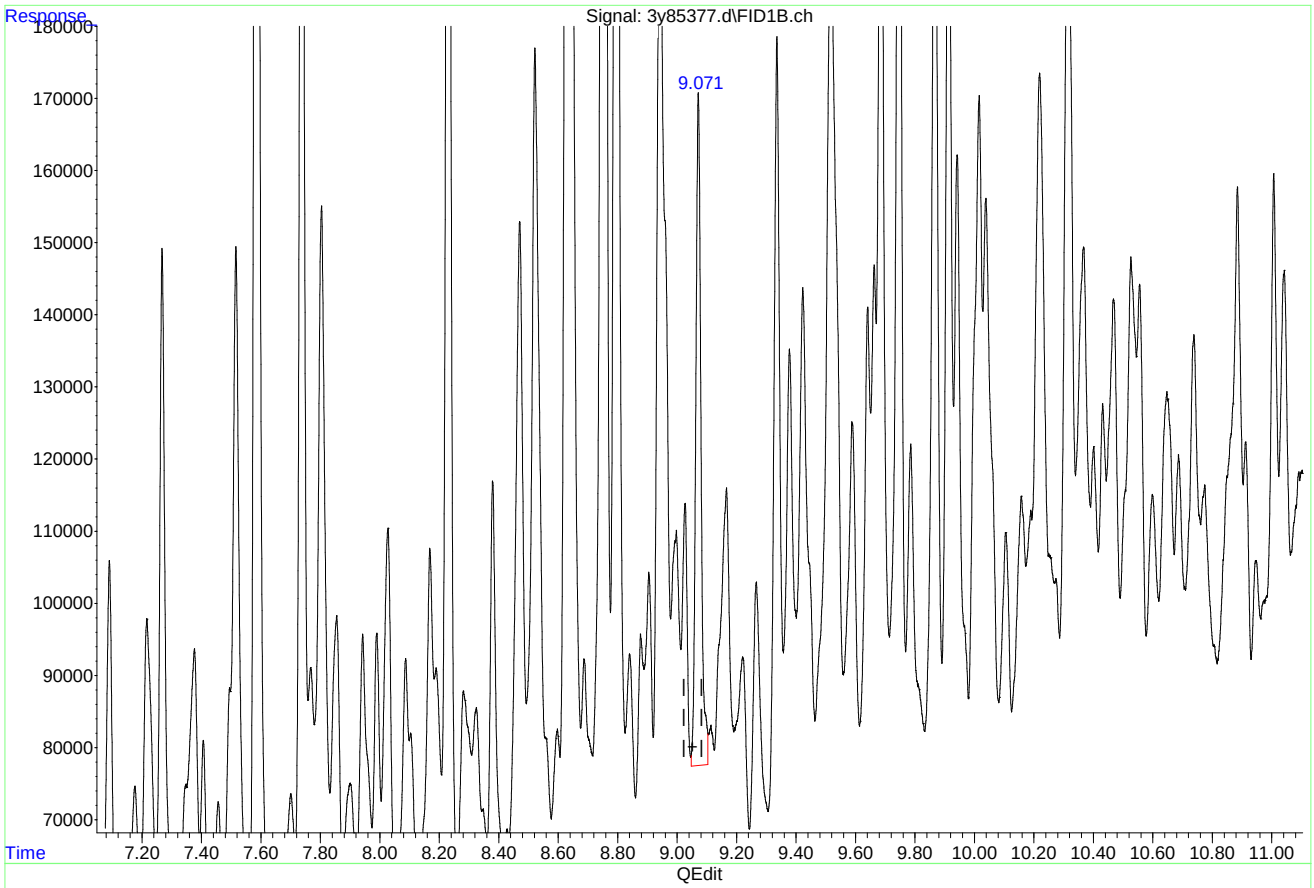
eph3y3347.m Tue Sep 27 16:21:01 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.071min 1.711 ug/l m

response 1127150

(+) = Expected Retention Time

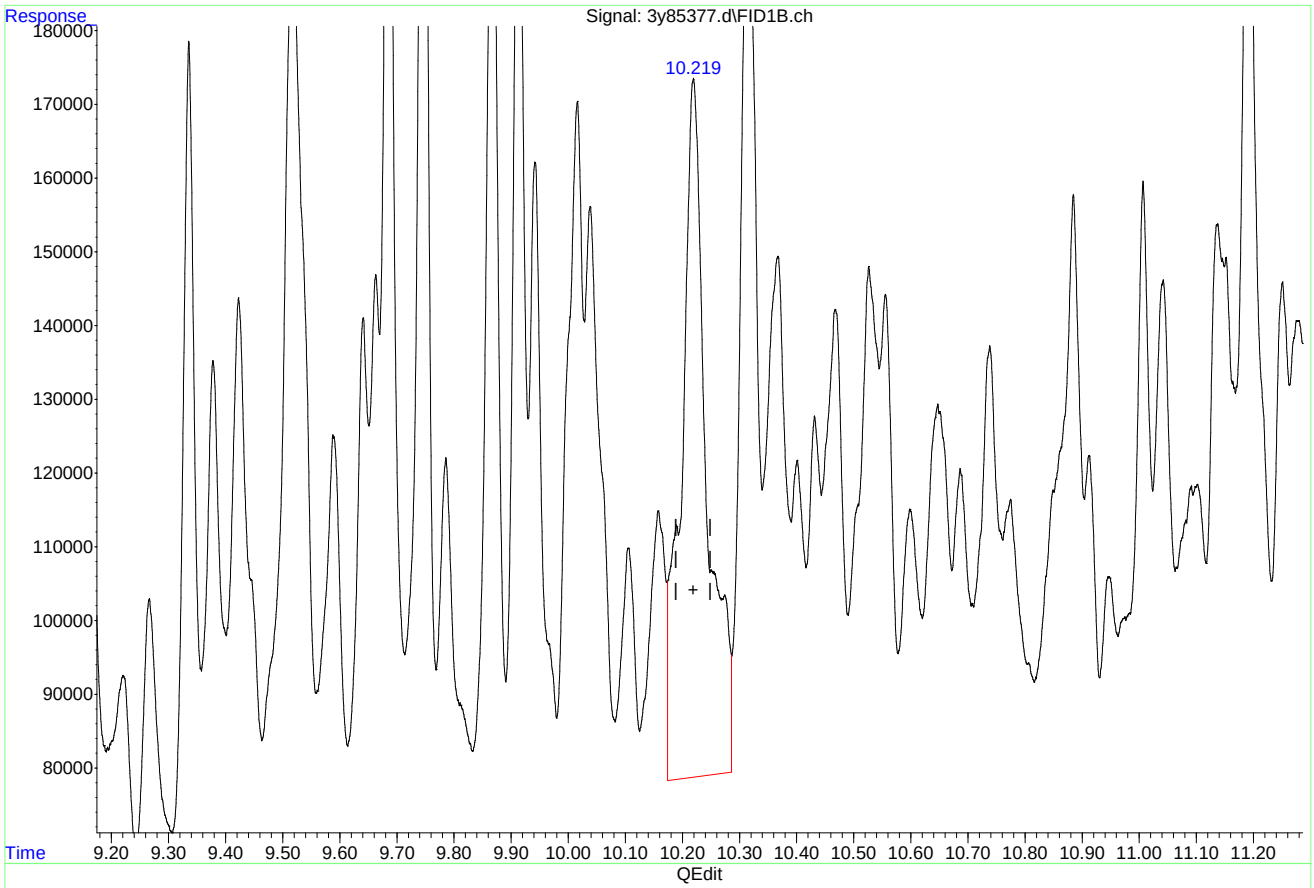
eph3y3347.m Tue Sep 27 16:21:07 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.220min 4.454 ug/l

response 2950865

(+) = Expected Retention Time

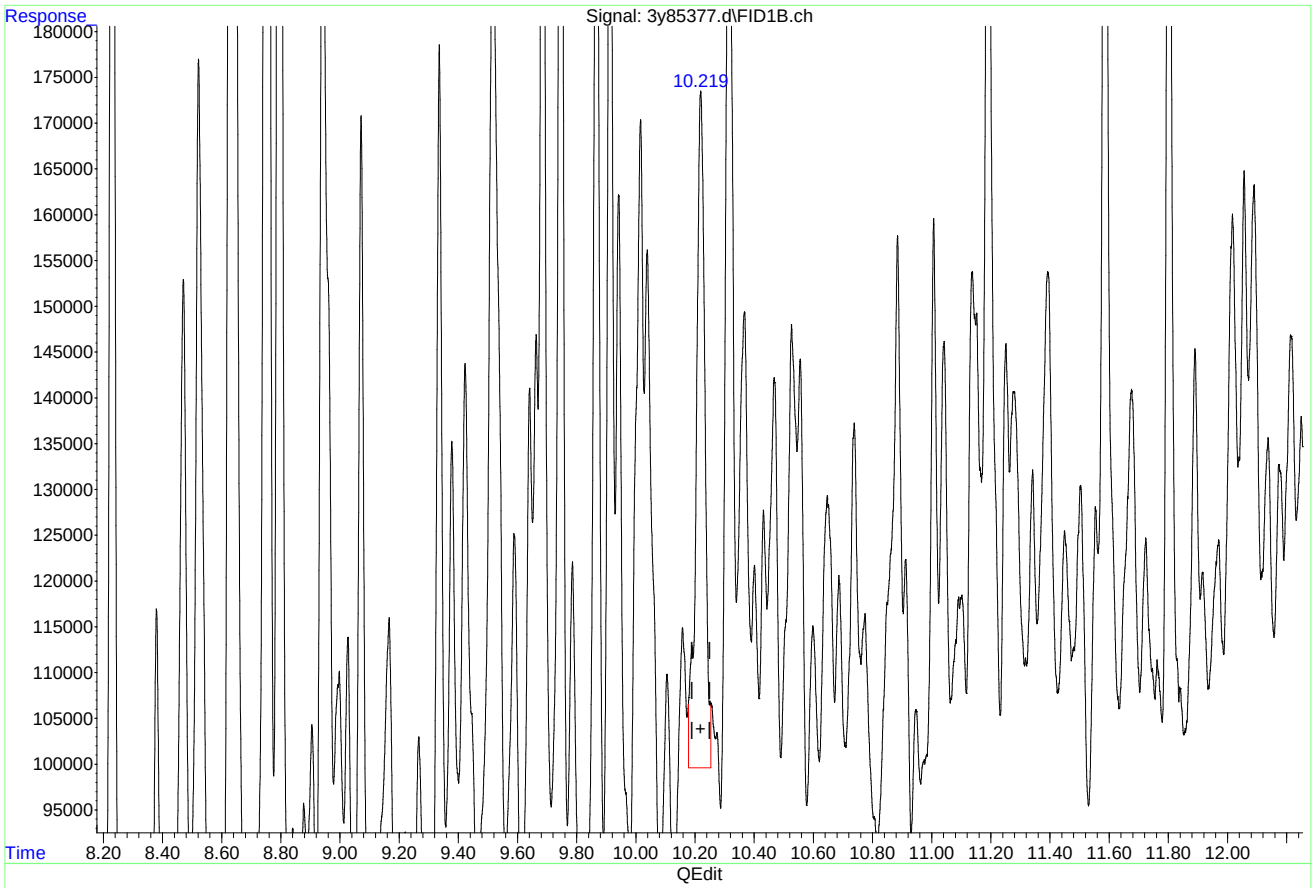
eph3y3347.m Tue Sep 27 16:21:12 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.219min 2.245 ug/l m

response 1487215

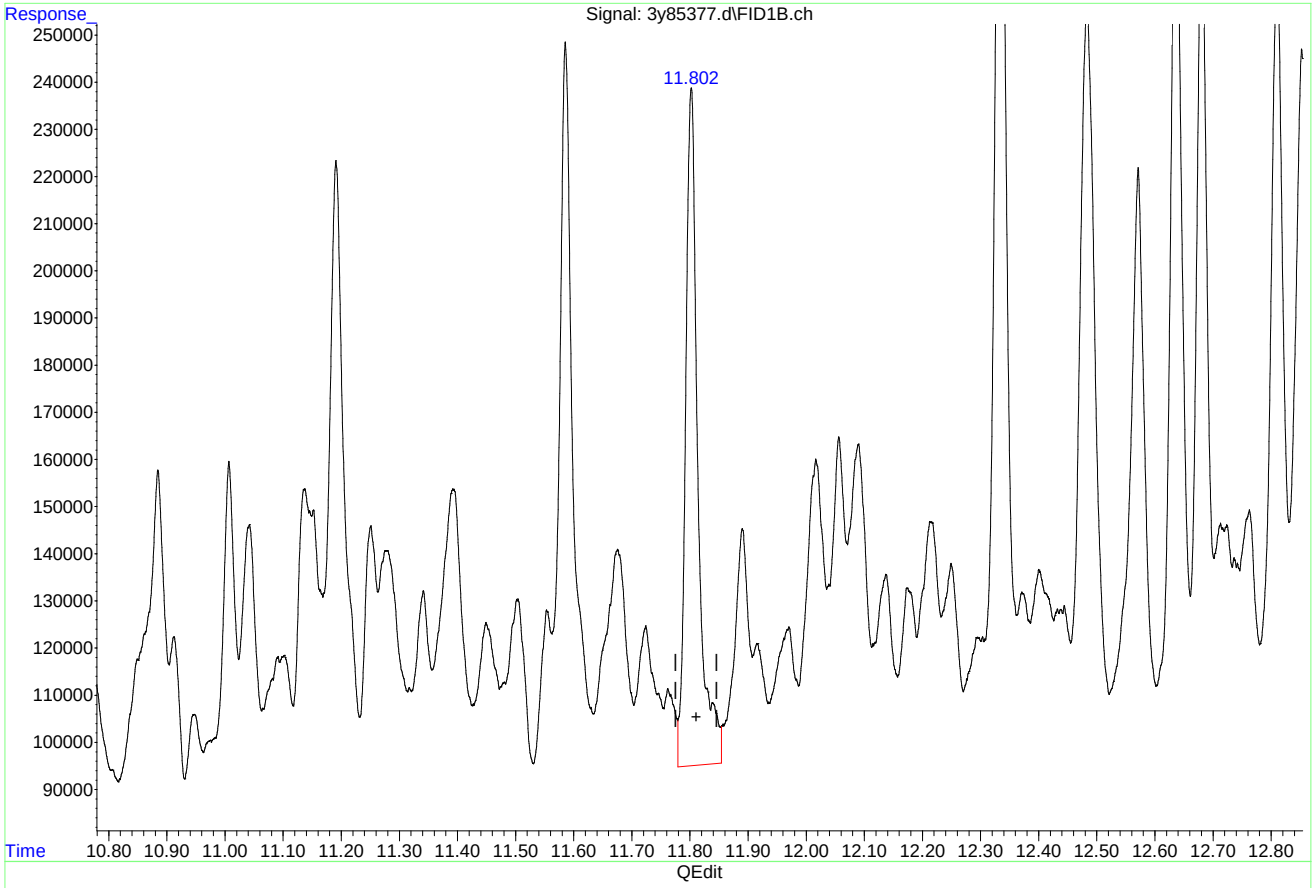
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.802min 3.293 ug/l

response 2120384

(+) = Expected Retention Time

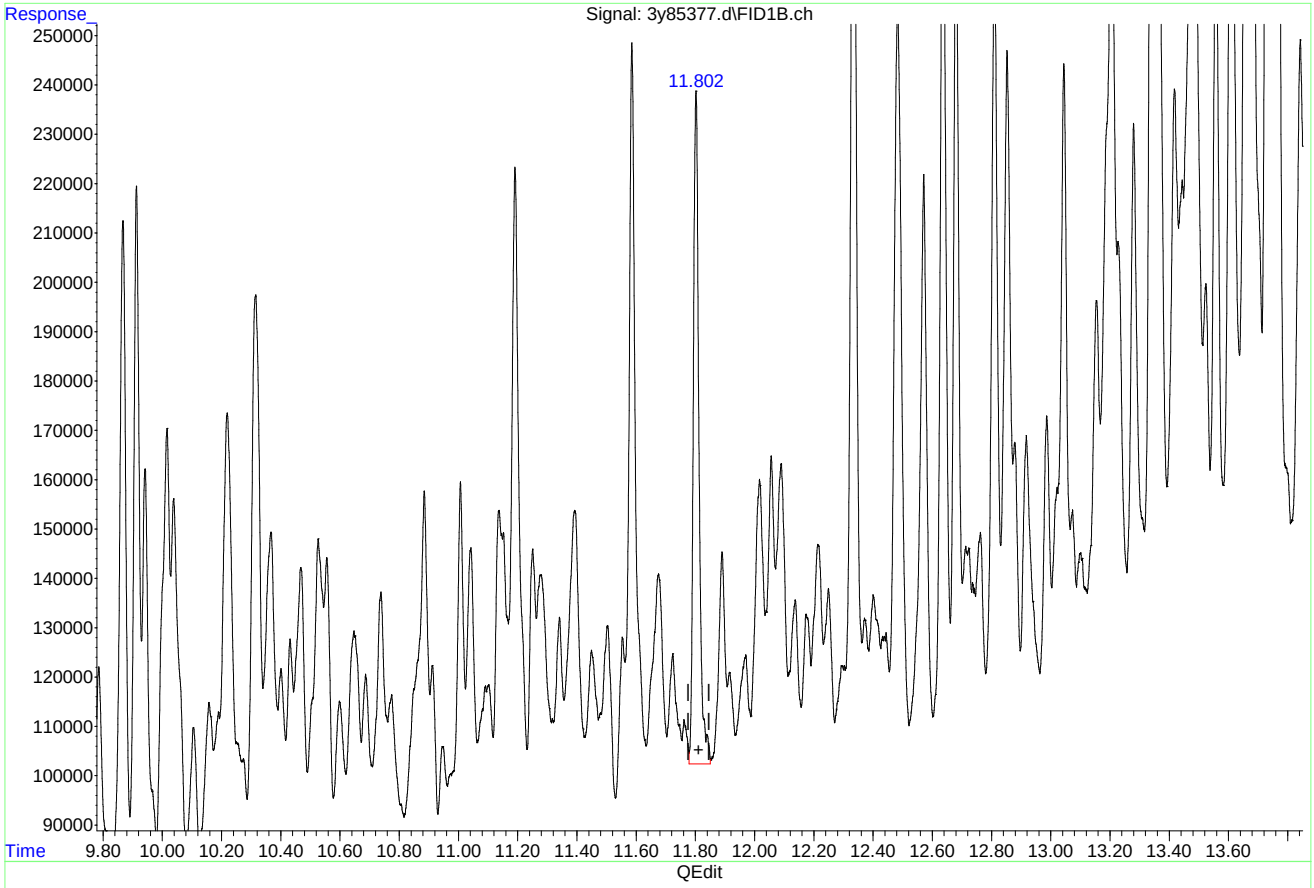
eph3y3347.m Tue Sep 27 16:21:23 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.802min 2.786 ug/l m

response 1793847

(+) = Expected Retention Time

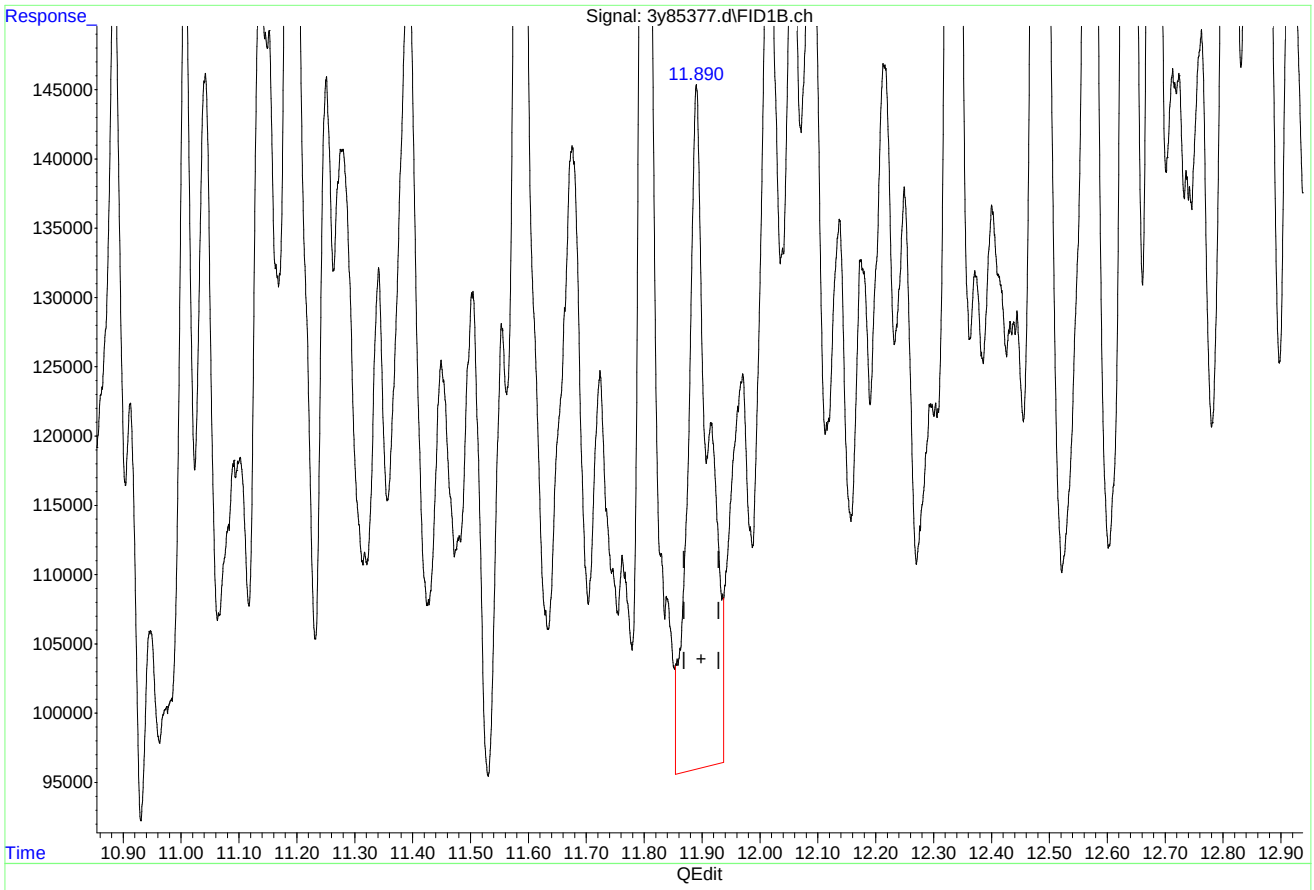
eph3y3347.m Tue Sep 27 16:21:29 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(10) Anthracene (T)

11.890min 1.841 ug/l

response 1179739

(+) = Expected Retention Time

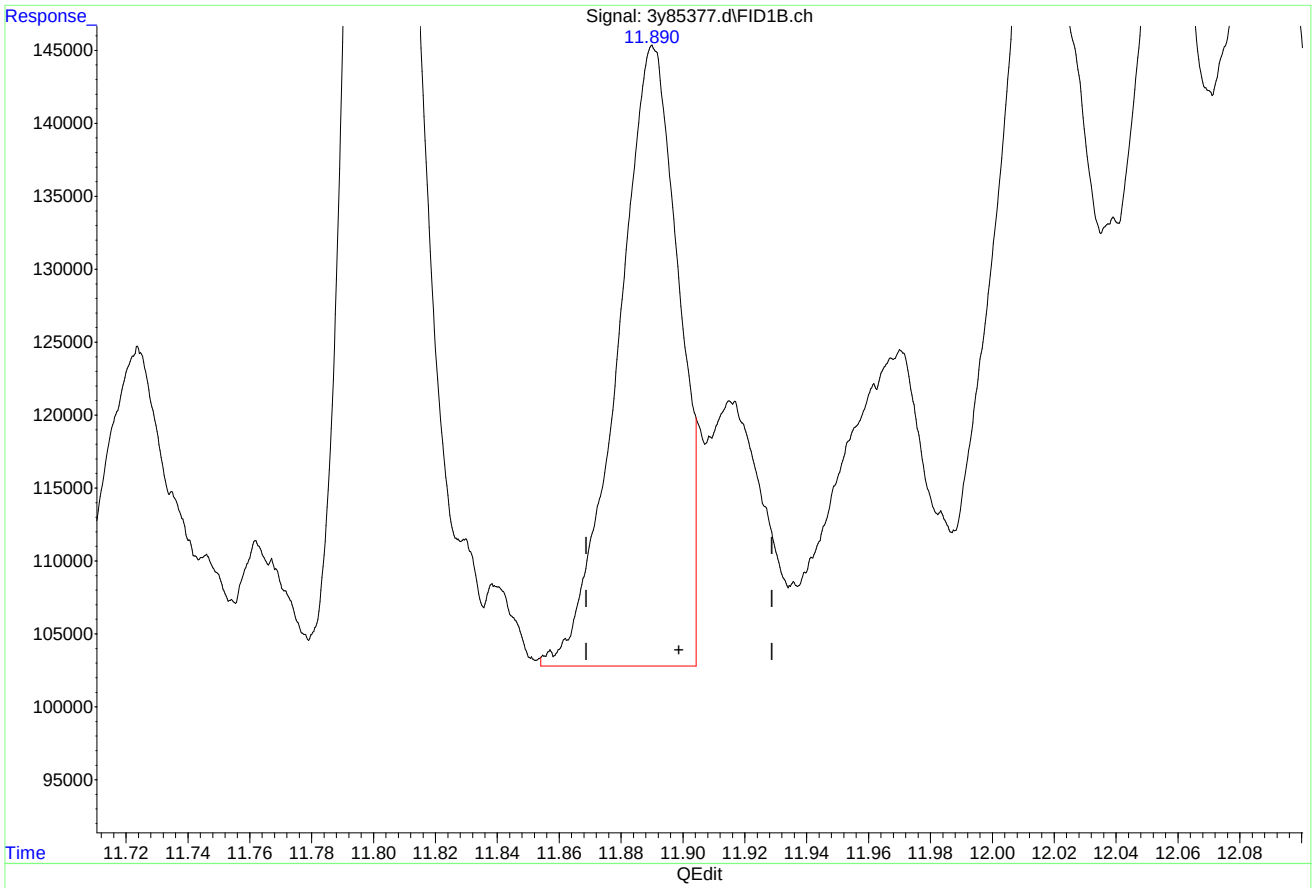
eph3y3347.m Tue Sep 27 16:21:31 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(10) Anthracene (T)

11.890min 0.908 ug/l m

response 582157

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:21:36 2022

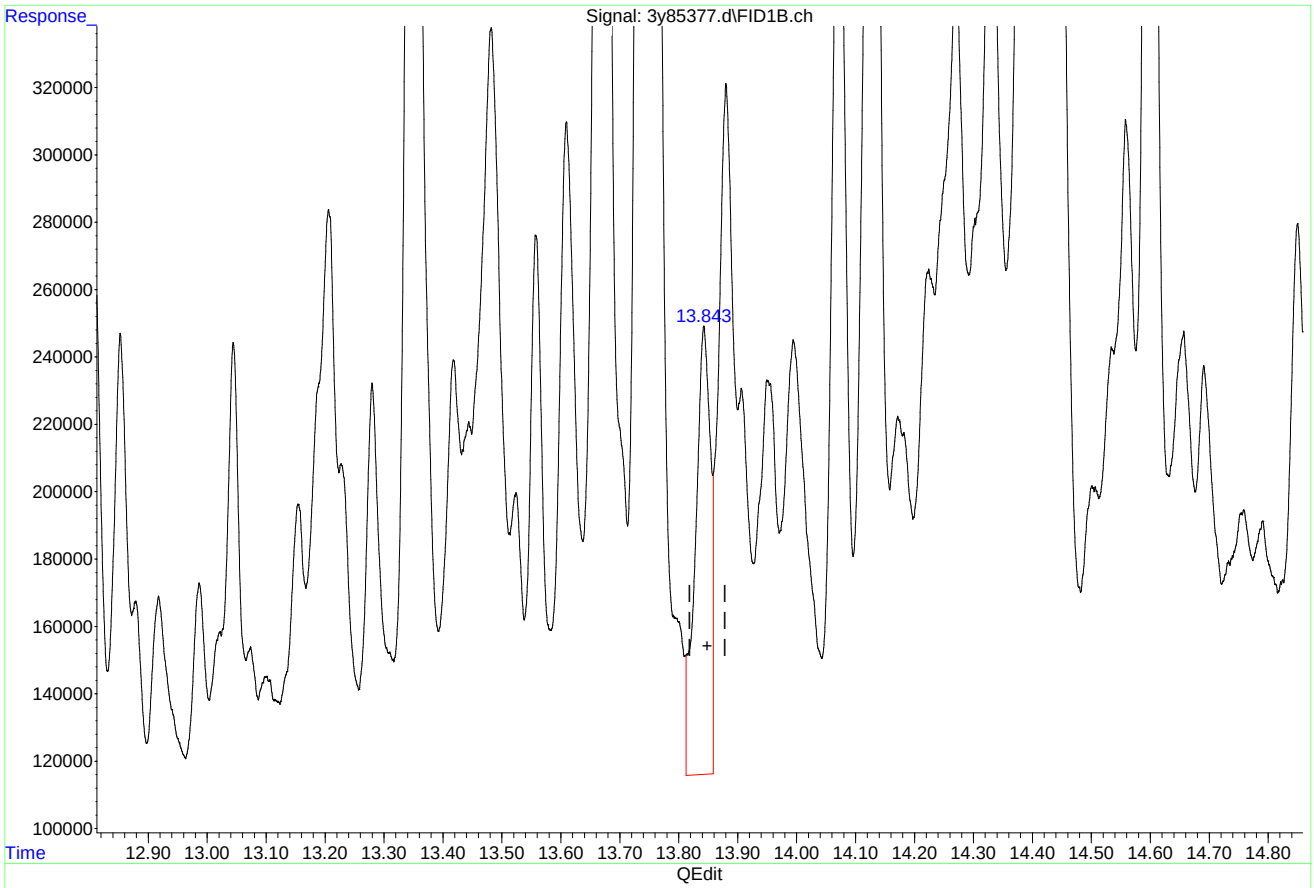
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(11) Fluoranthene (T)

13.843min 3.800 ug/l

response 2370763

(+) = Expected Retention Time

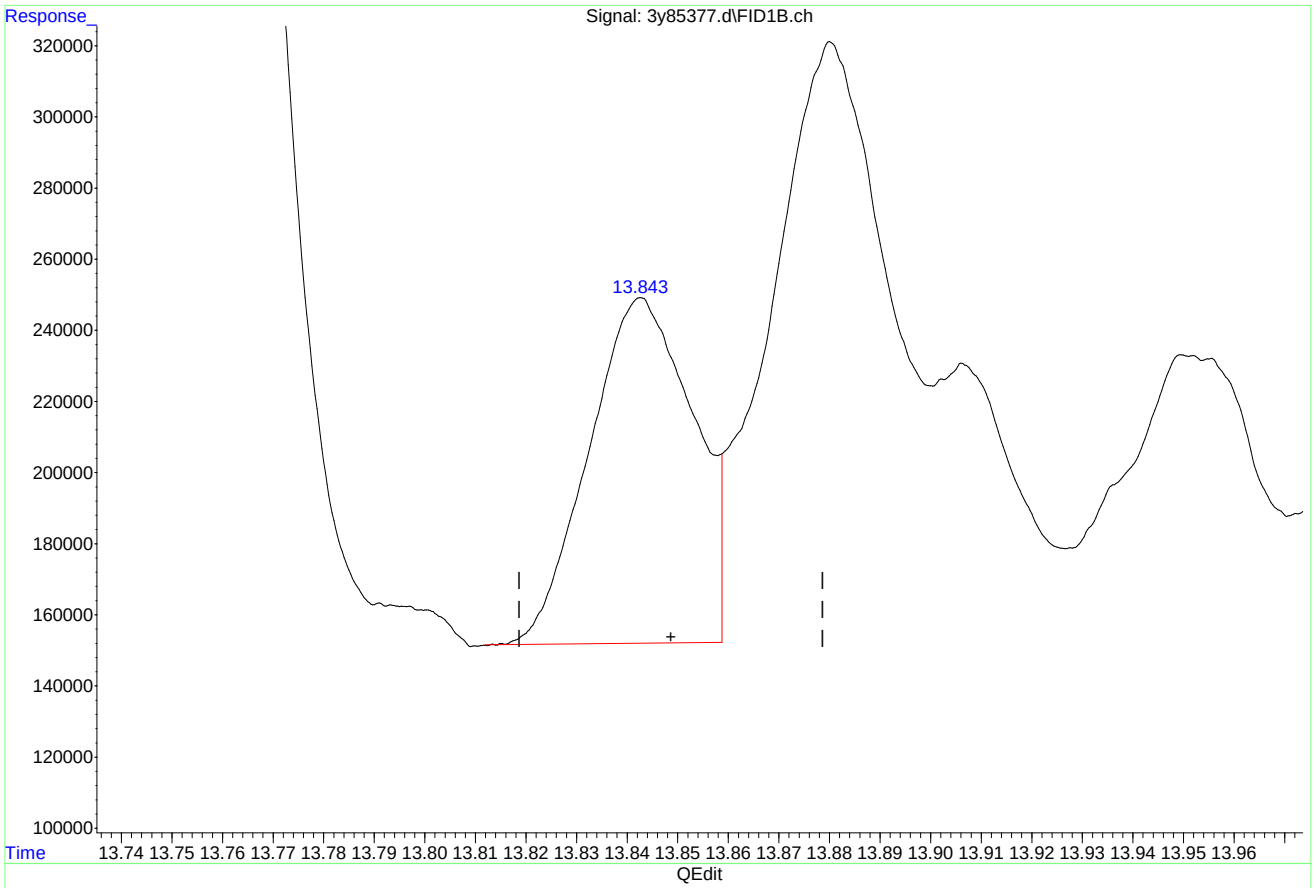
eph3y3347.m Tue Sep 27 16:21:39 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(11) Fluoranthene (T)

13.843min 2.238 ug/l m

response 1396322

(+) = Expected Retention Time

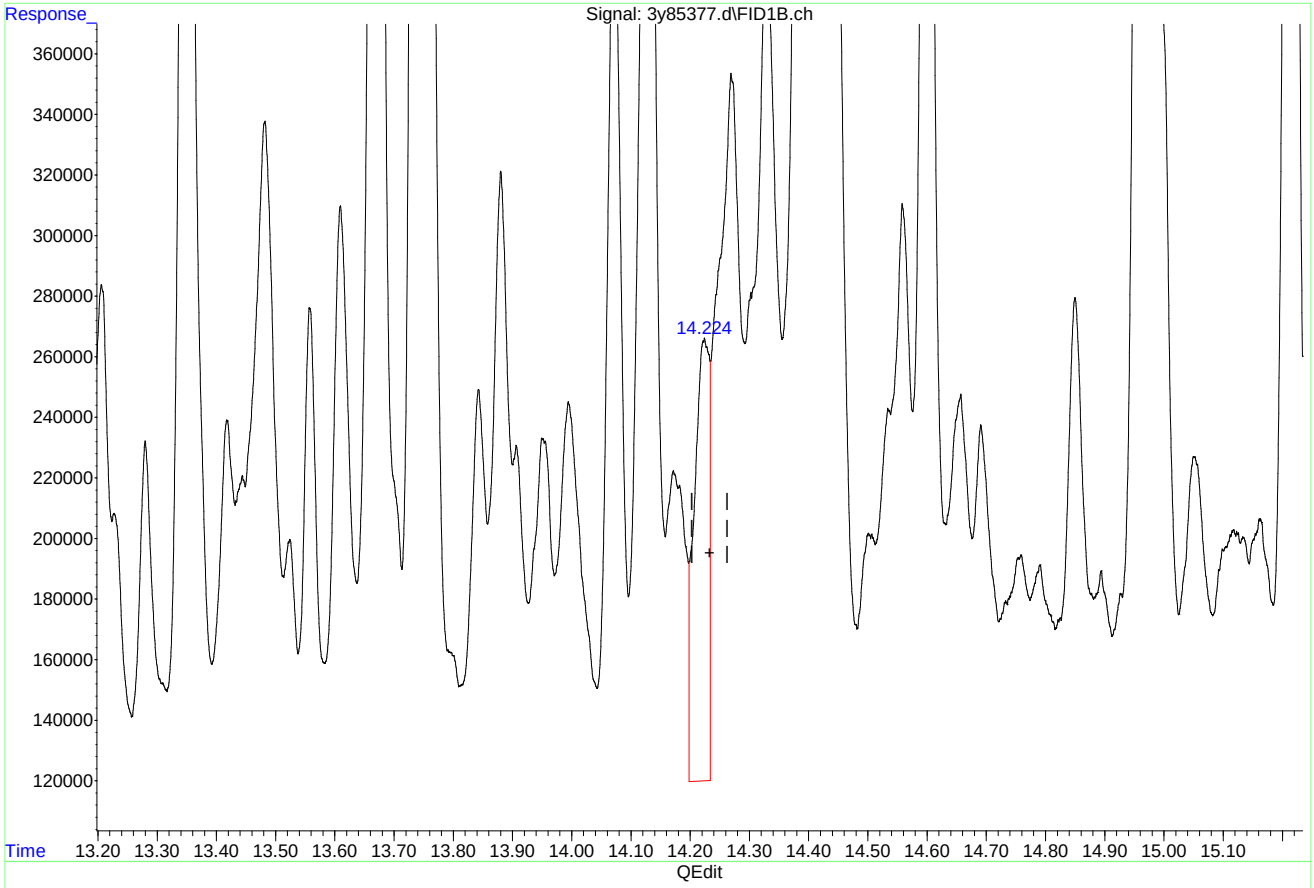
eph3y3347.m Tue Sep 27 16:21:45 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.224min 3.994 ug/l

response 2556396

(+) = Expected Retention Time

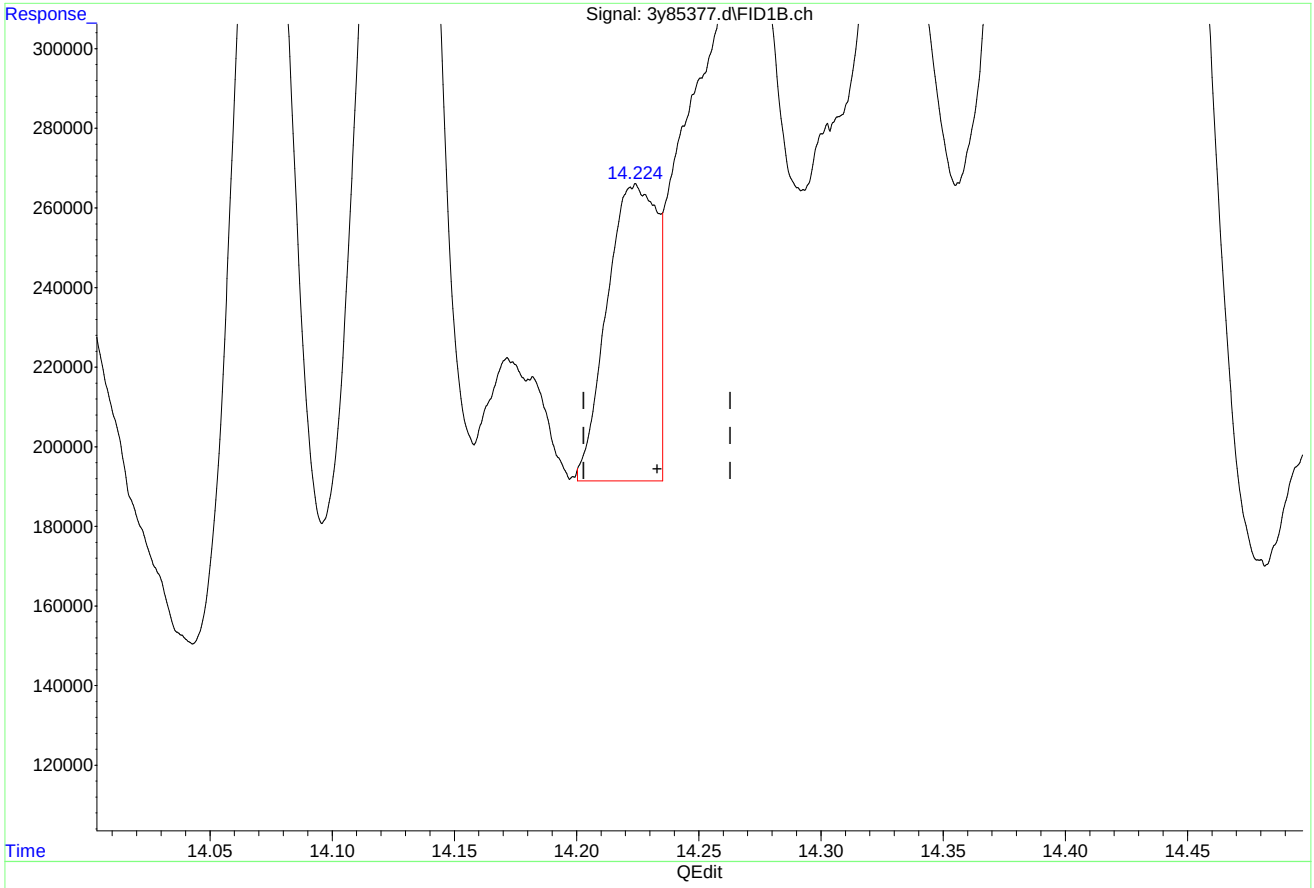
eph3y3347.m Tue Sep 27 16:21:47 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.224min 1.658 ug/l m

response 1061135

(+) = Expected Retention Time

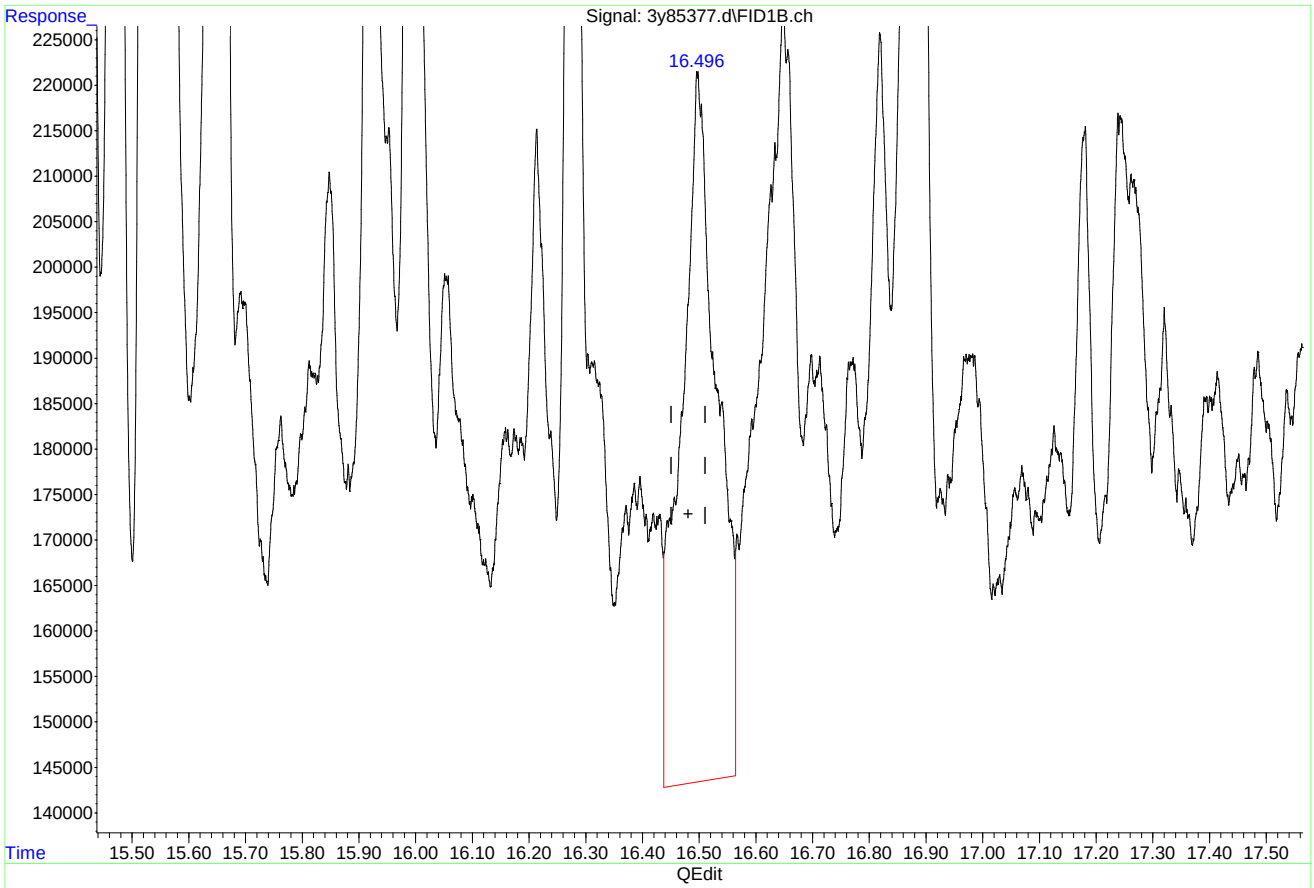
eph3y3347.m Tue Sep 27 16:21:53 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(14) Benzo(a)Anthracene (T)

16.498min 5.535 ug/l

response 3428726

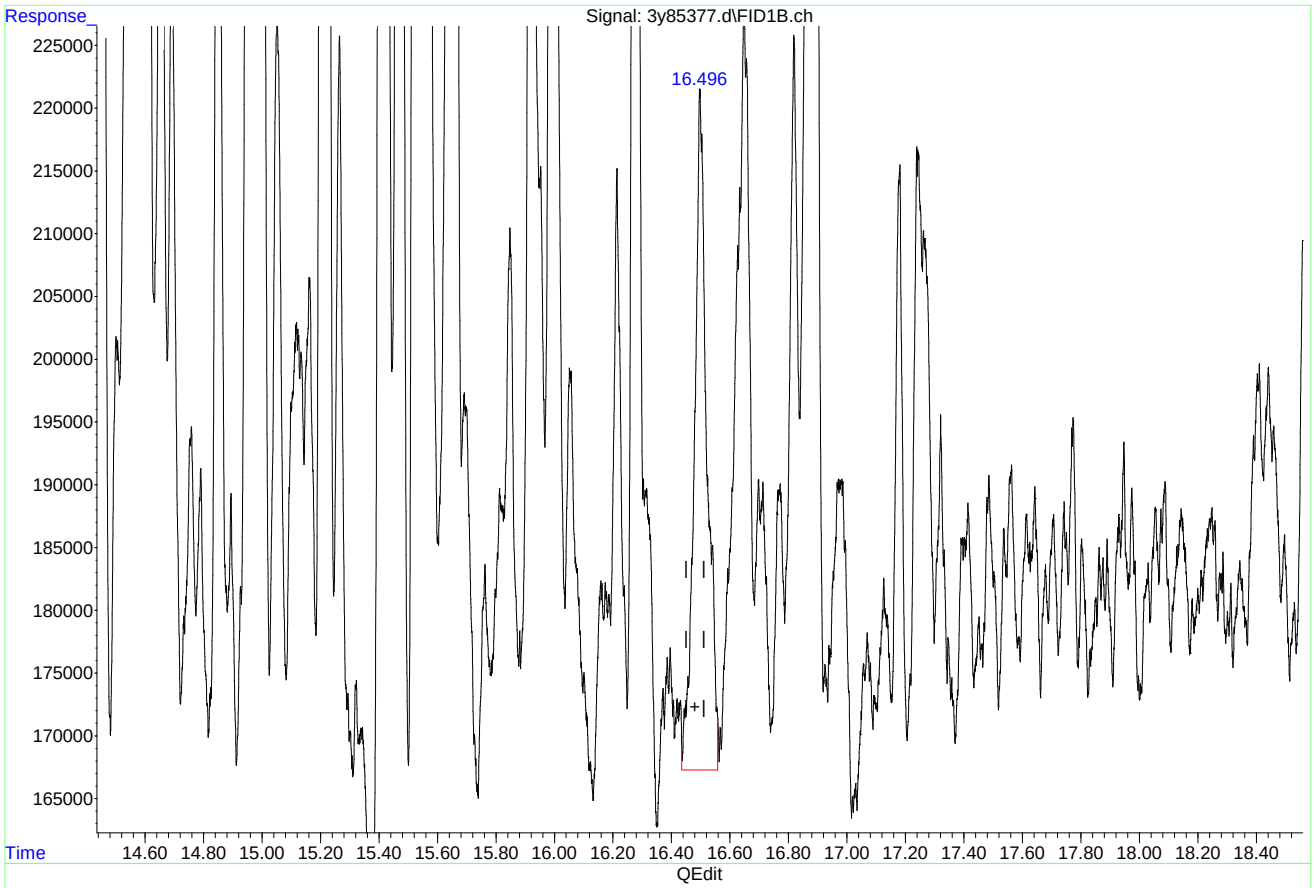
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(14) Benzo(a)Anthracene (T)

16.496min 2.599 ug/l m

response 1609694

(+) = Expected Retention Time

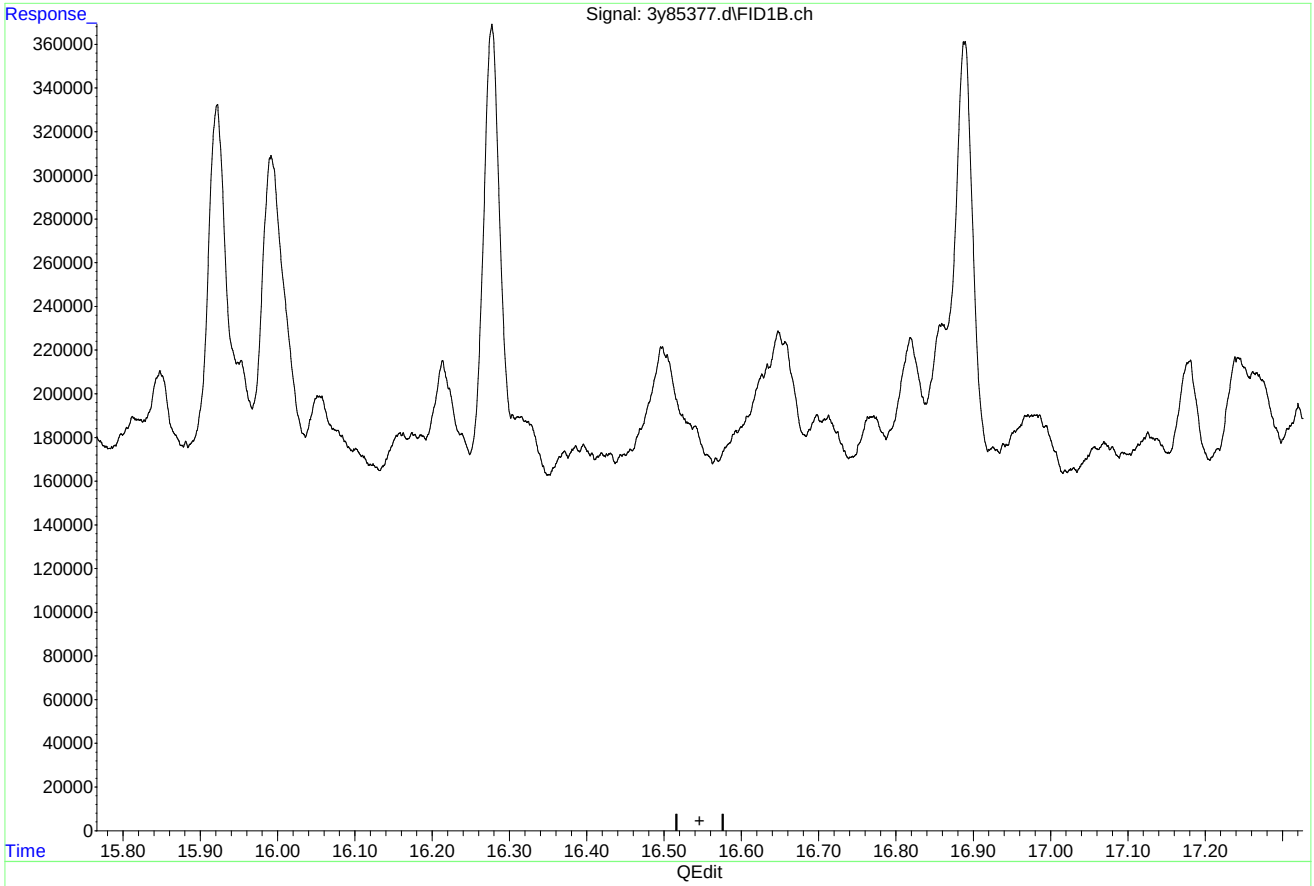
eph3y3347.m Tue Sep 27 16:22:04 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(15) Chrysene (T)

16.546min 0.000 ug/l

response 0

(+) = Expected Retention Time

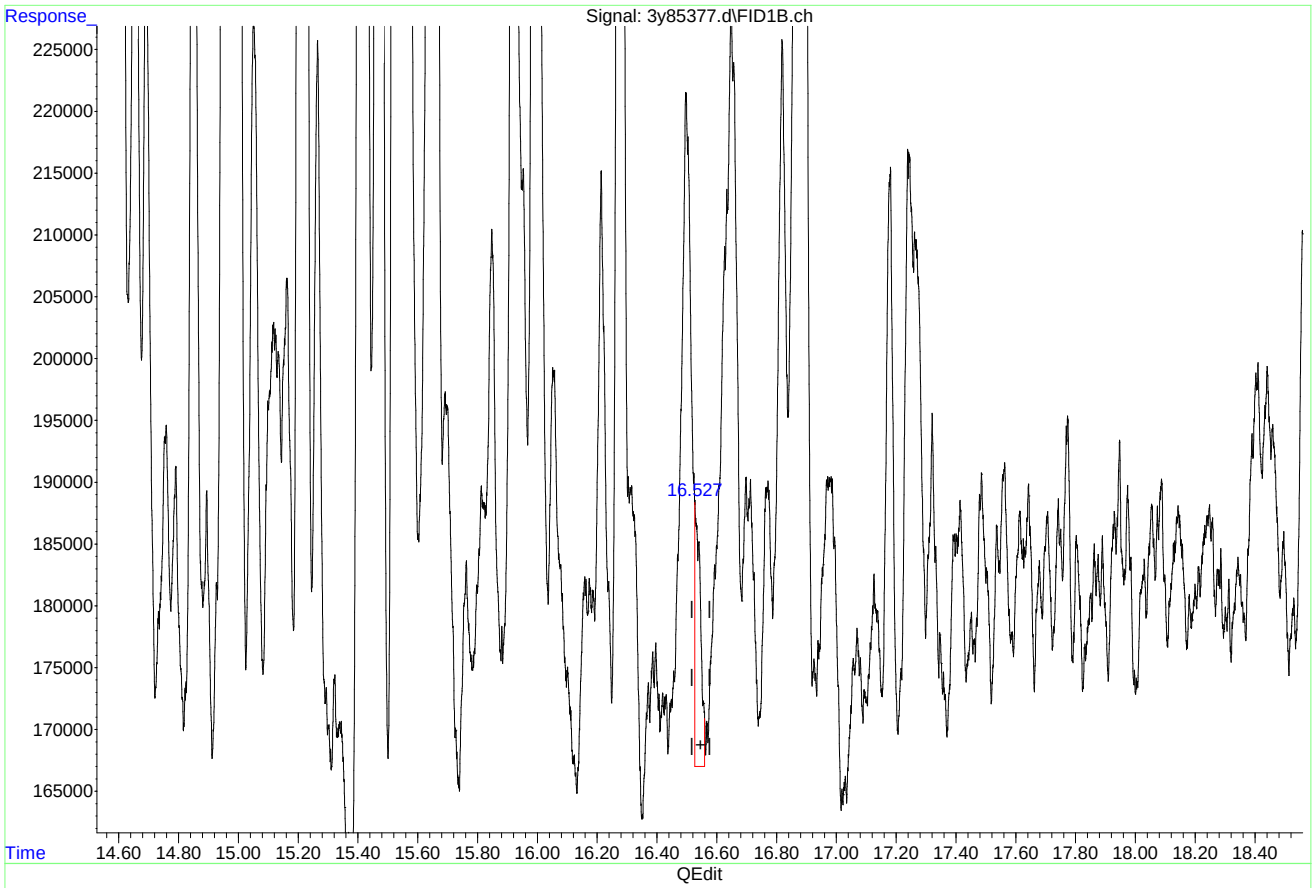
eph3y3347.m Tue Sep 27 16:22:08 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(15) Chrysene (T)

16.527min 0.433 ug/l m

response 267387

(+) = Expected Retention Time

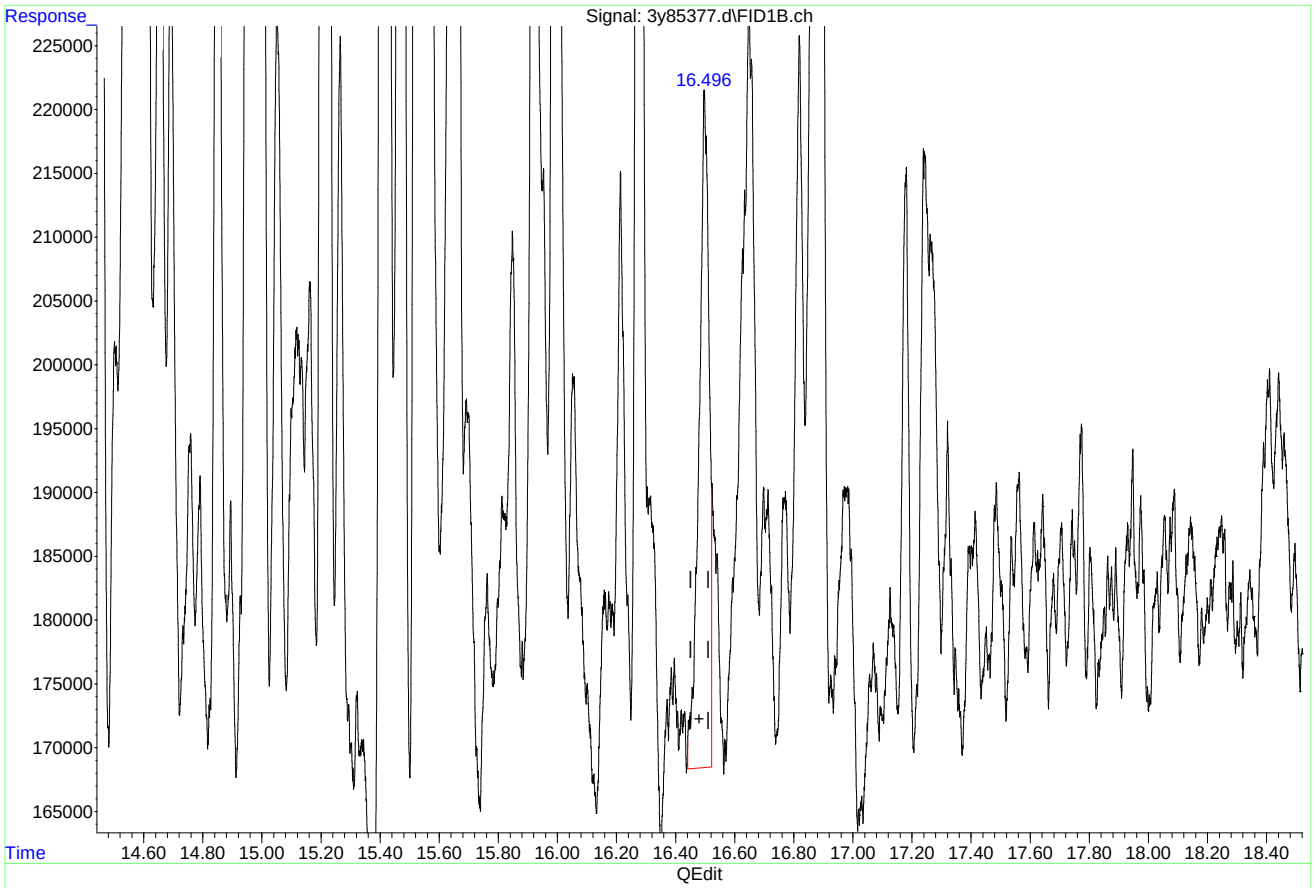
eph3y3347.m Tue Sep 27 16:22:15 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(14) Benzo(a)Anthracene (T)

16.496min 1.988 ug/l m

response 1231373

(+) = Expected Retention Time

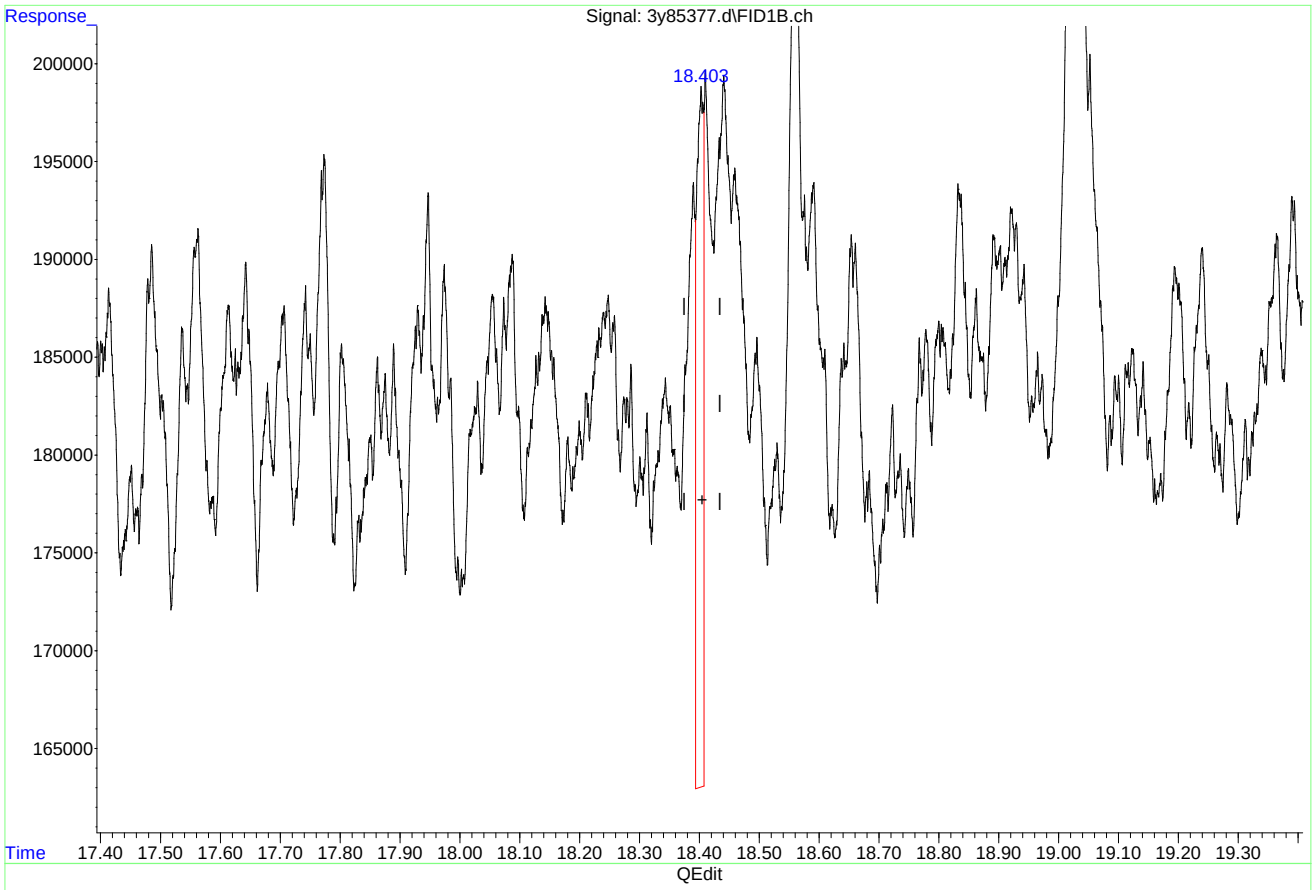
eph3y3347.m Tue Sep 27 16:22:26 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(16) Benzo(b)Fluoranthene (T)

18.403min 0.462 ug/l

response 278574

(+) = Expected Retention Time

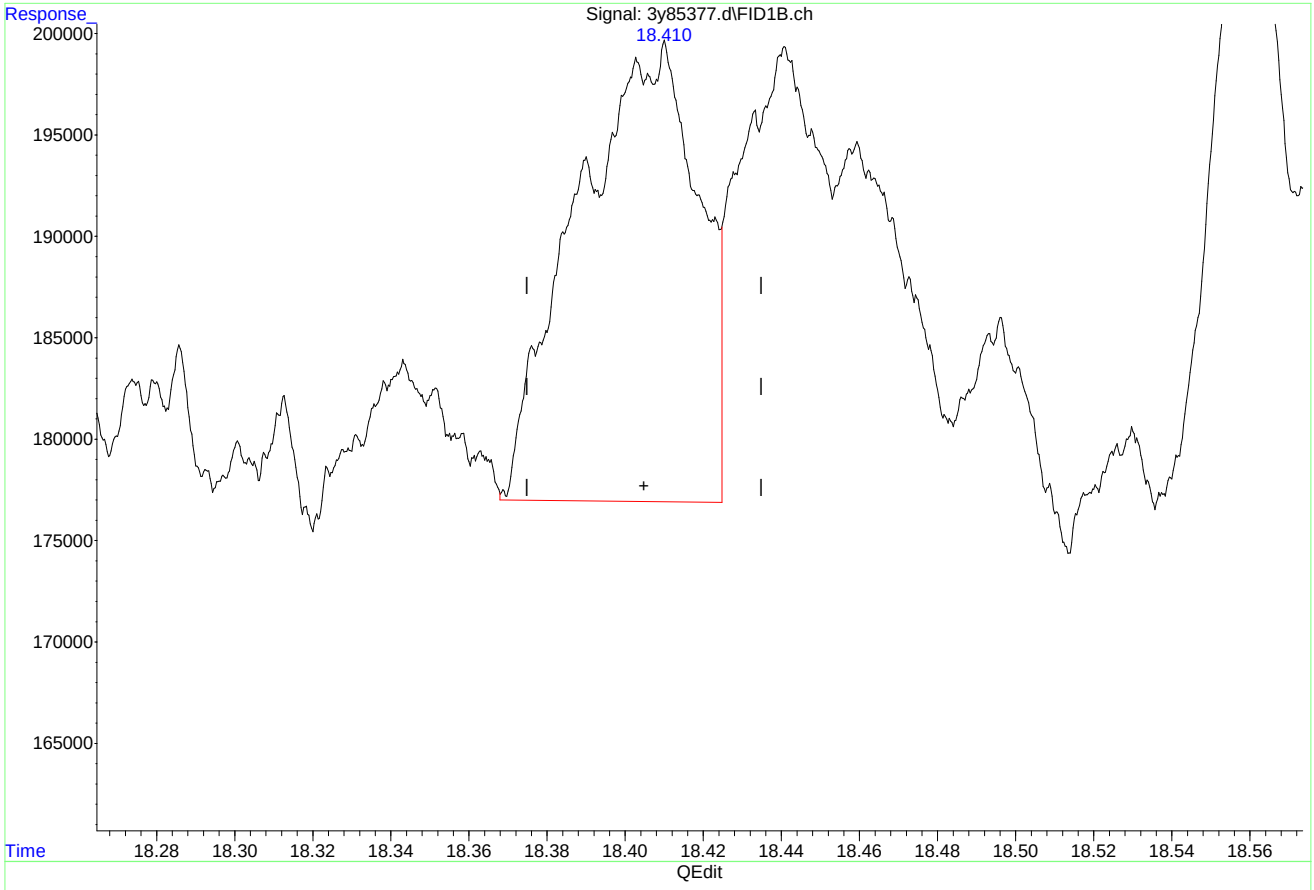
eph3y3347.m Tue Sep 27 16:22:29 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(16) Benzo(b)Fluoranthene (T)

18.410min 0.814 ug/l m

response 491028

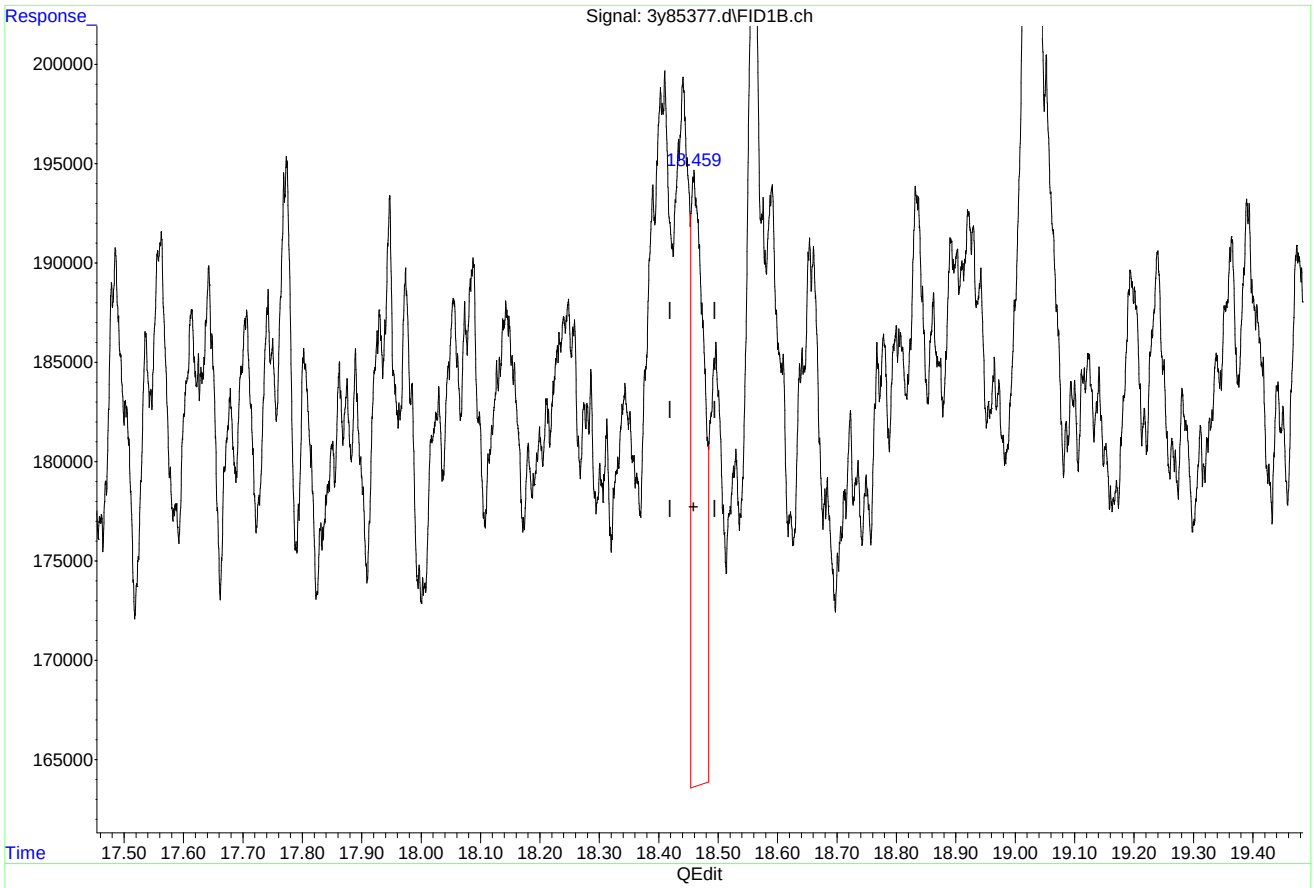
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(17) Benzo(k)Fluoranthene (T)

18.459min 0.785 ug/l

response 459205

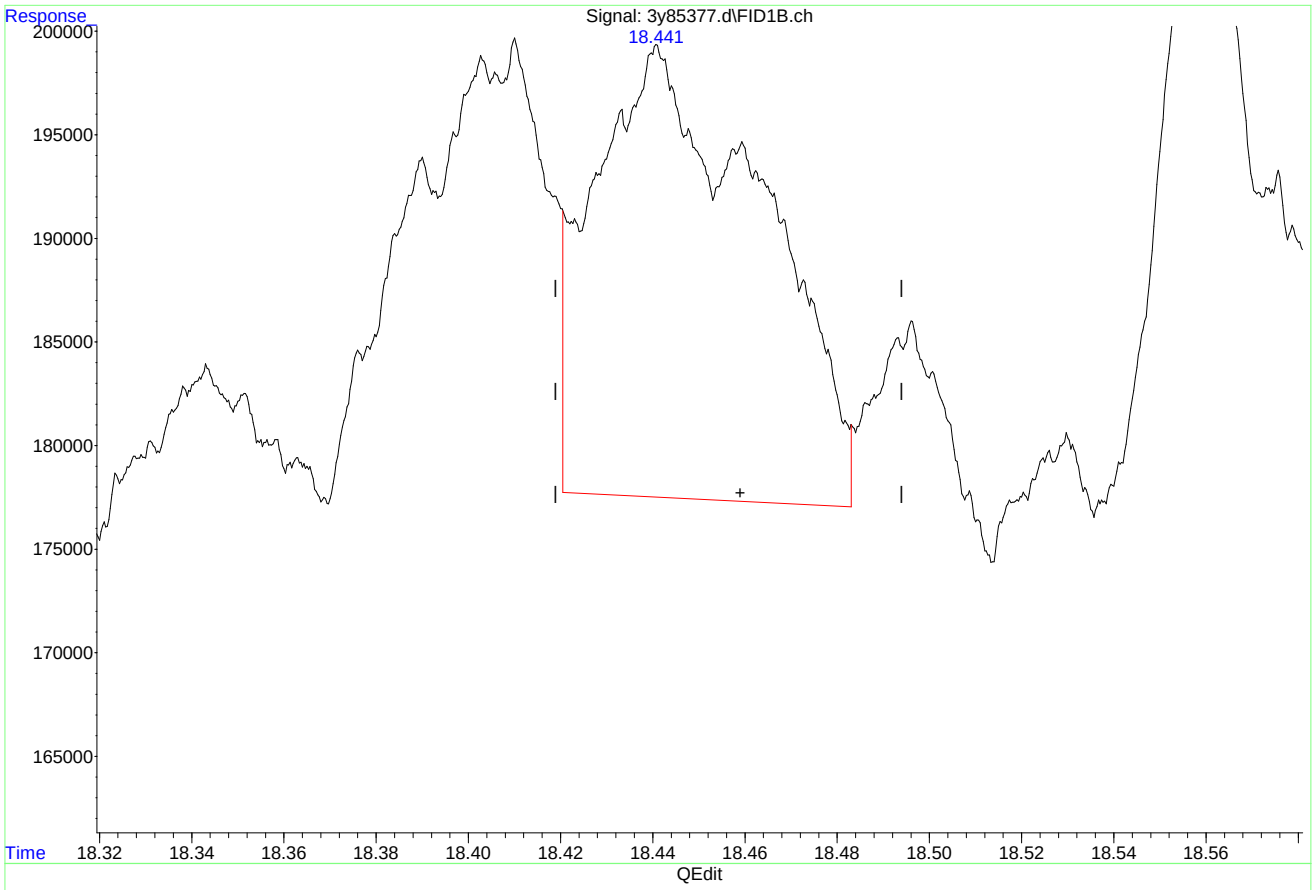
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(17) Benzo(k)Fluoranthene (T)

18.441min 0.950 ug/l m

response 555948

(+) = Expected Retention Time

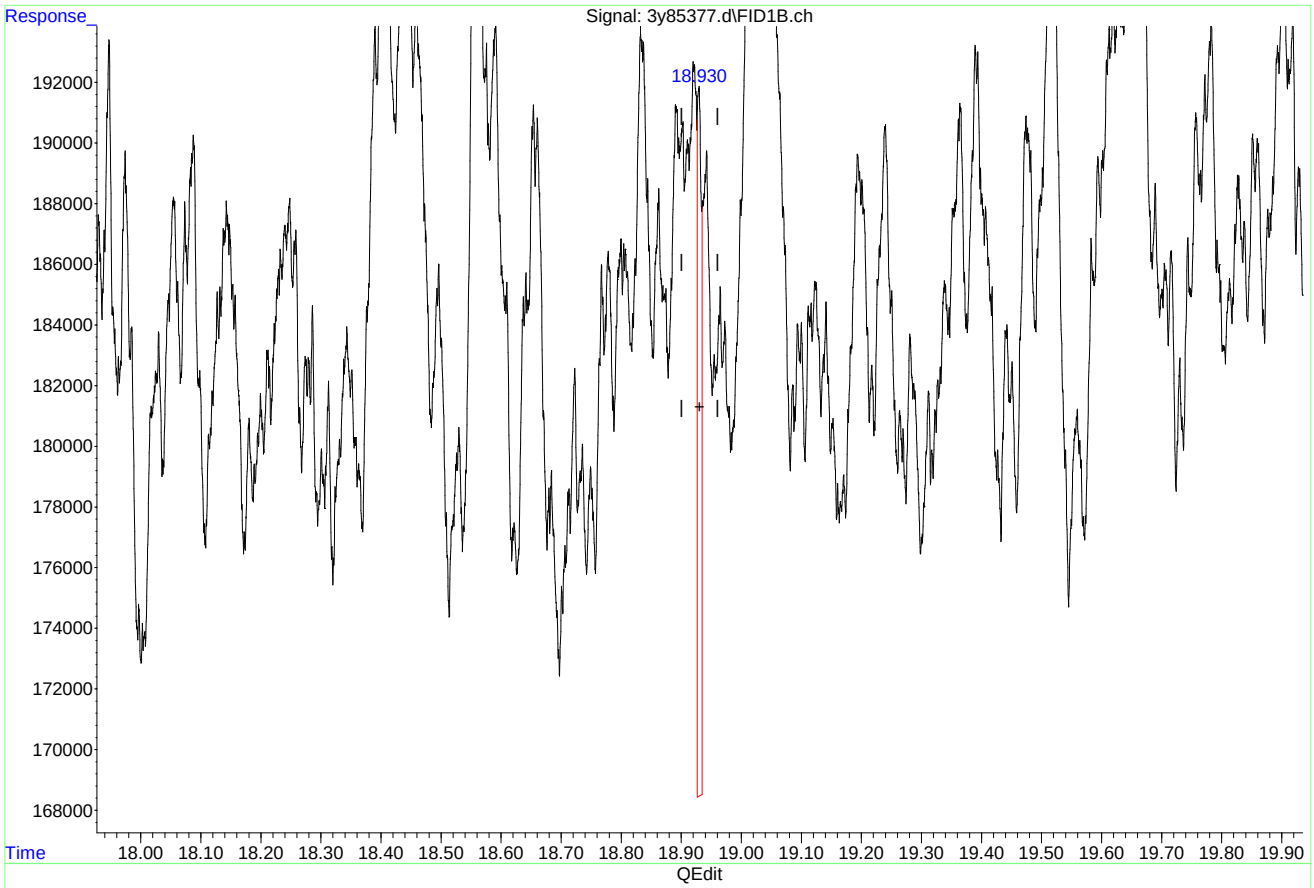
eph3y3347.m Tue Sep 27 16:22:49 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(18) Benzo(a)Pyrene (T)

18.929min 0.185 ug/l

response 108308

(+) = Expected Retention Time

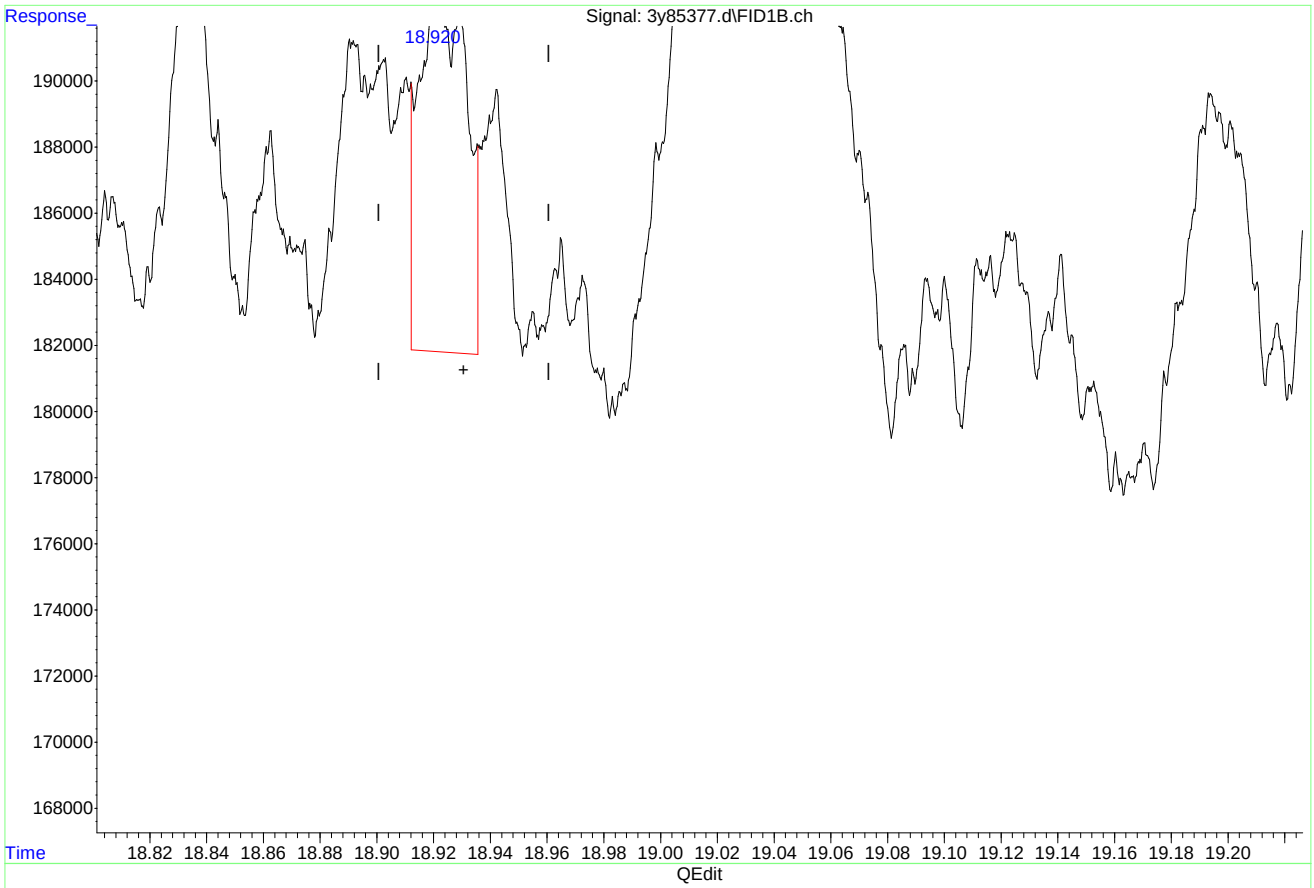
eph3y3347.m Tue Sep 27 16:22:52 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(18) Benzo(a)Pyrene (T)

18.920min 0.213 ug/l m

response 124989

(+) = Expected Retention Time

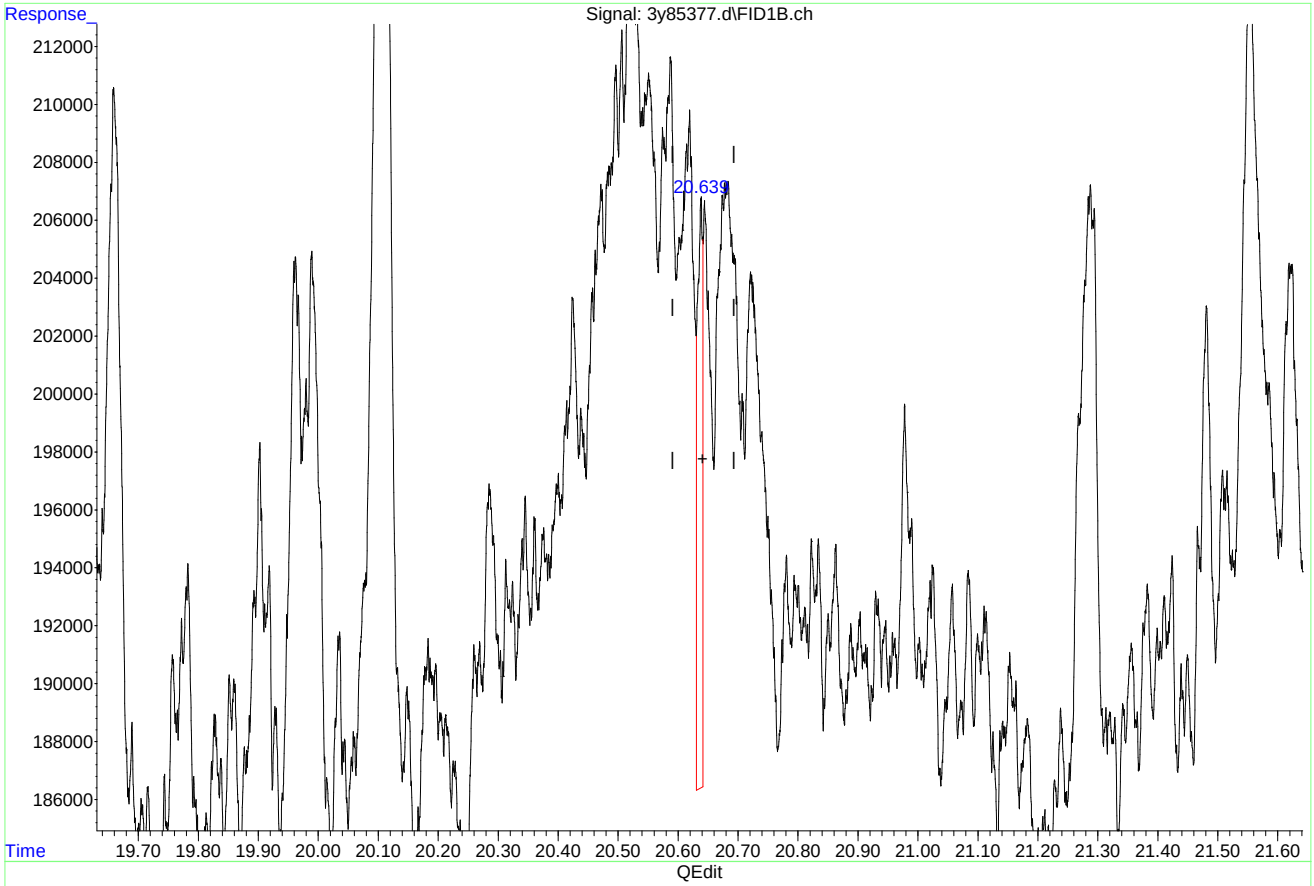
eph3y3347.m Tue Sep 27 16:22:58 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(19) Indeno(1,2,3-cd)Pyrene (T)

20.639min 0.213 ug/l

response 123506

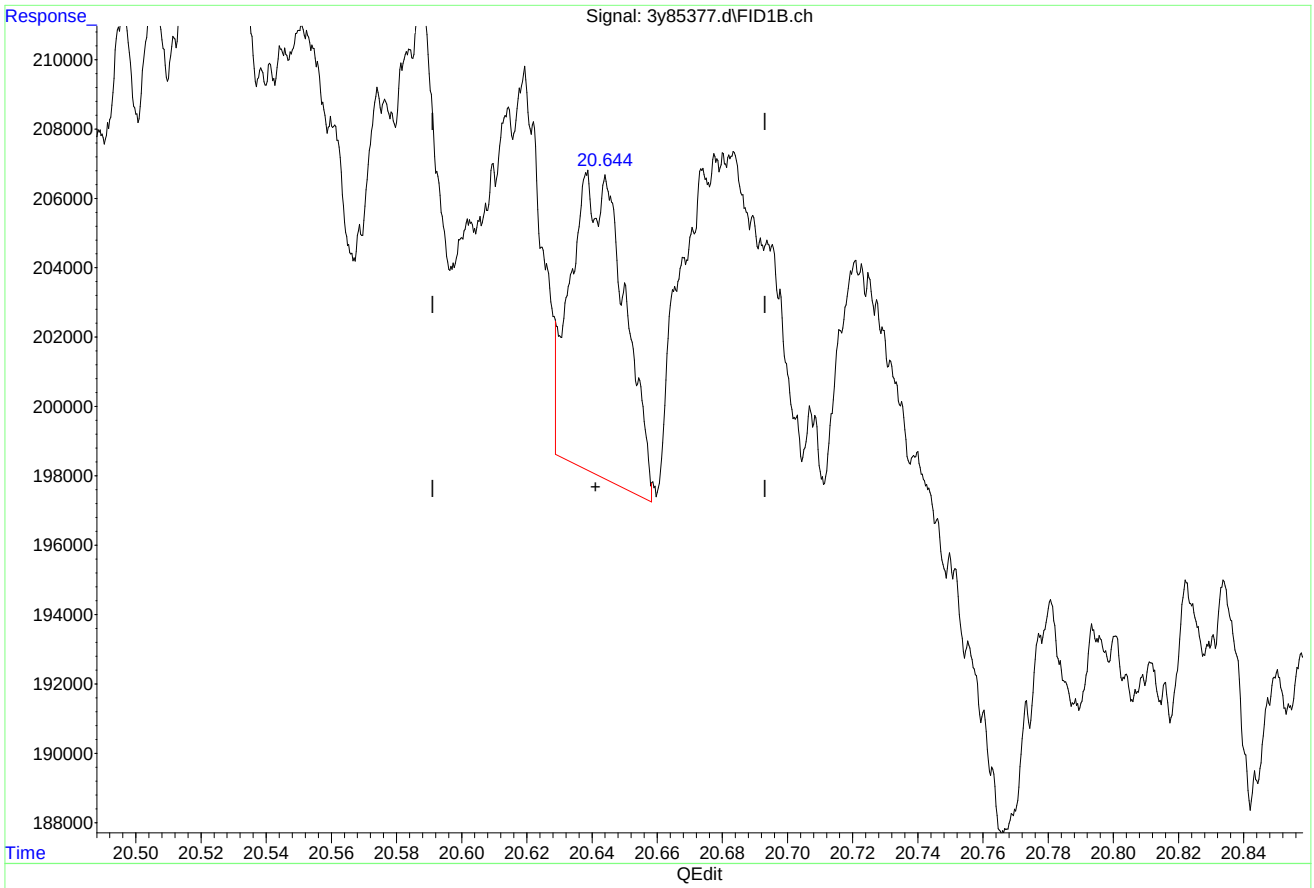
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(19) Indeno(1,2,3-cd)Pyrene (T)

20.644min 0.172 ug/l m

response 99782

(+) = Expected Retention Time

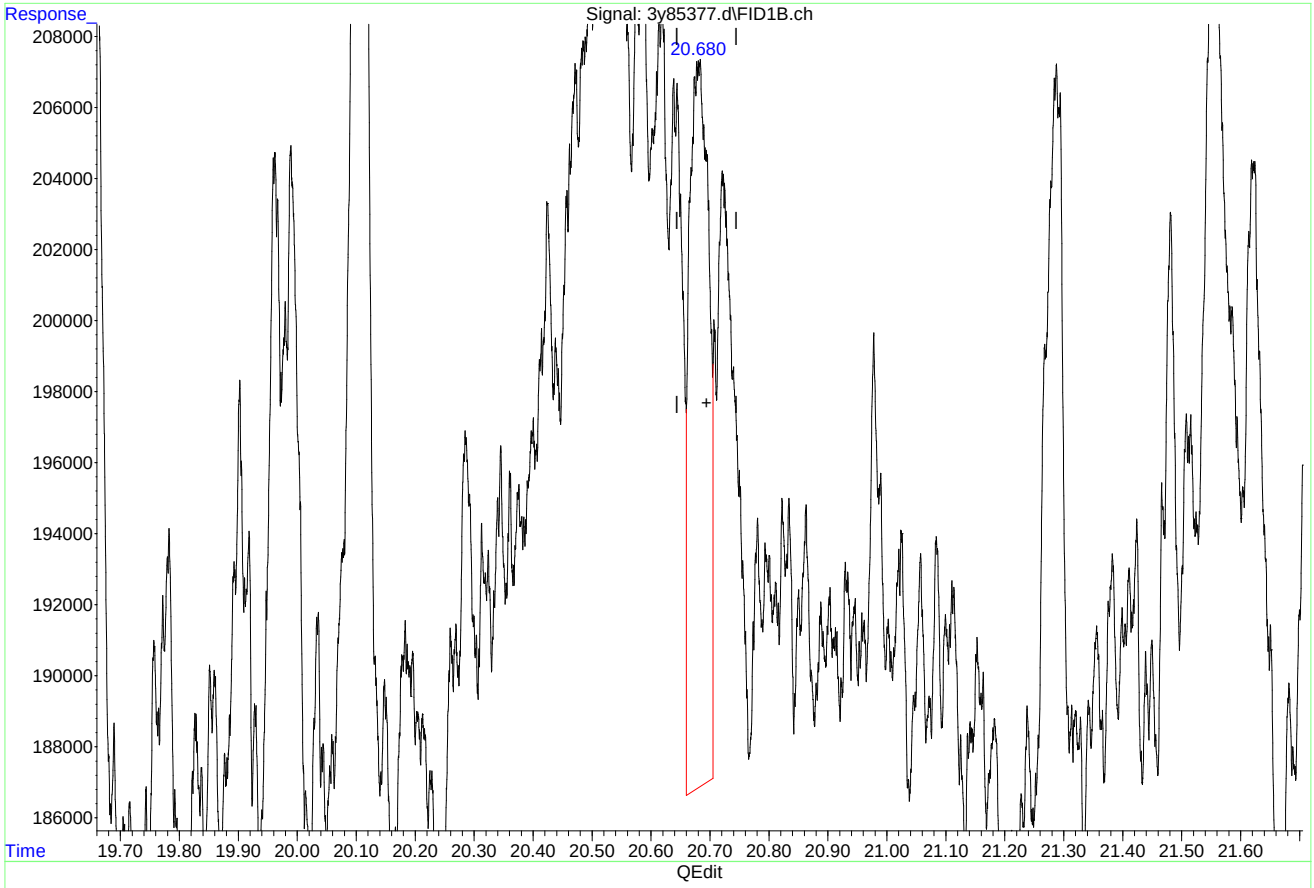
eph3y3347.m Tue Sep 27 16:23:07 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(20) Dibenzo(ah)Anthracene (T)

20.683min 0.747 ug/l

response 466773

(+) = Expected Retention Time

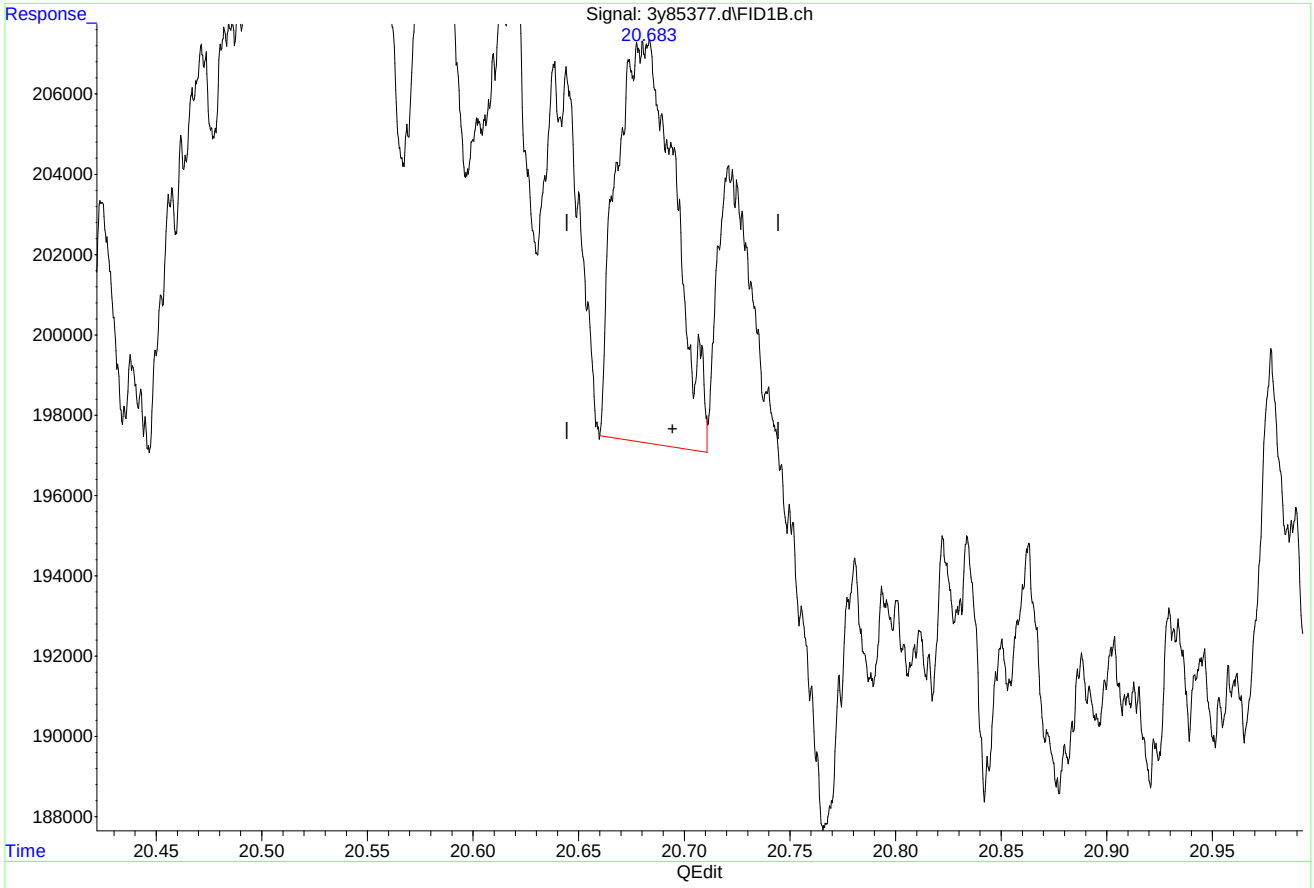
eph3y3347.m Tue Sep 27 16:23:11 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(20) Dibenzo(ah)Anthracene (T)

20.683min 0.307 ug/l m

response 191683

(+) = Expected Retention Time

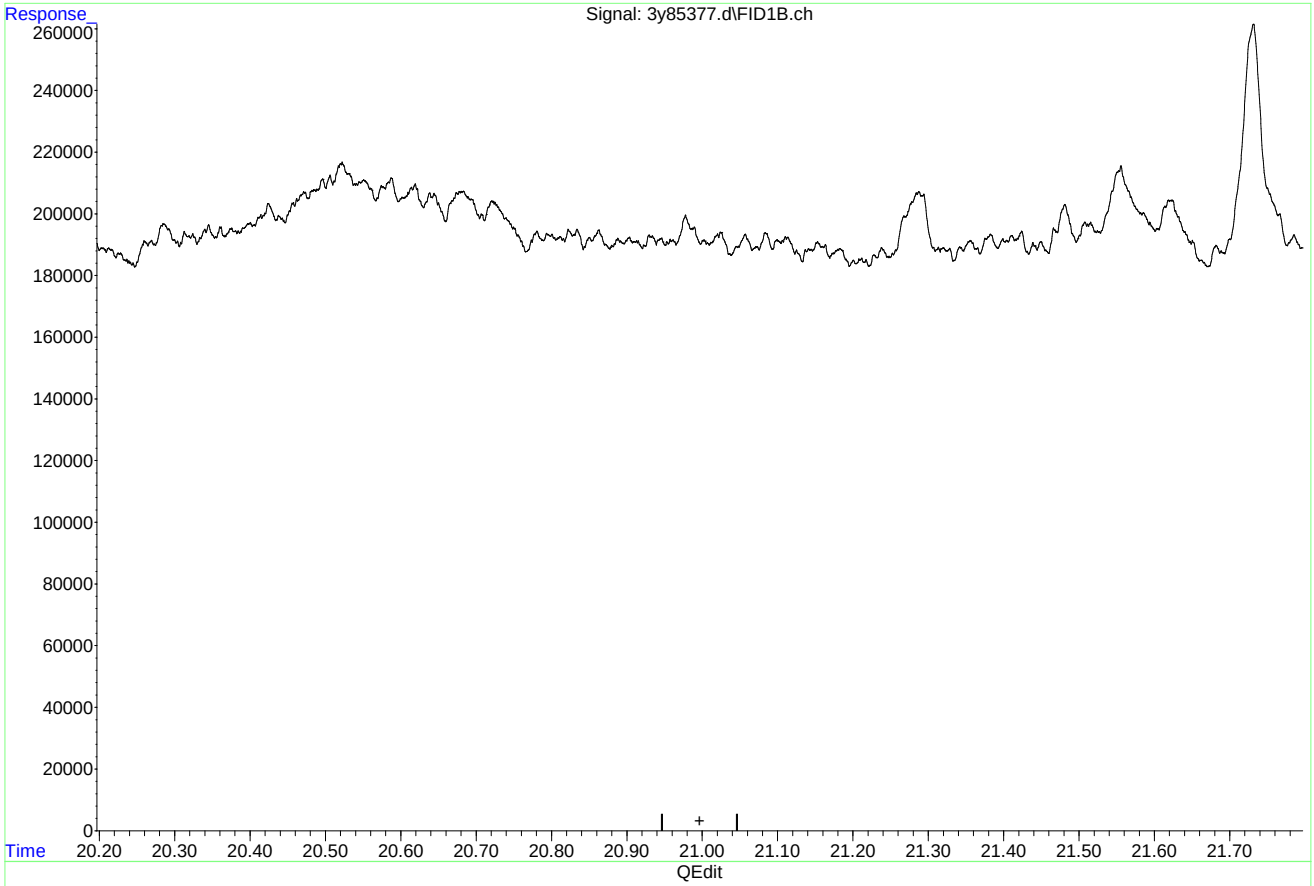
eph3y3347.m Tue Sep 27 16:23:24 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(21) Benzo(ghi)Perylene (T)

20.997min 0.000 ug/l

response 0

(+) = Expected Retention Time

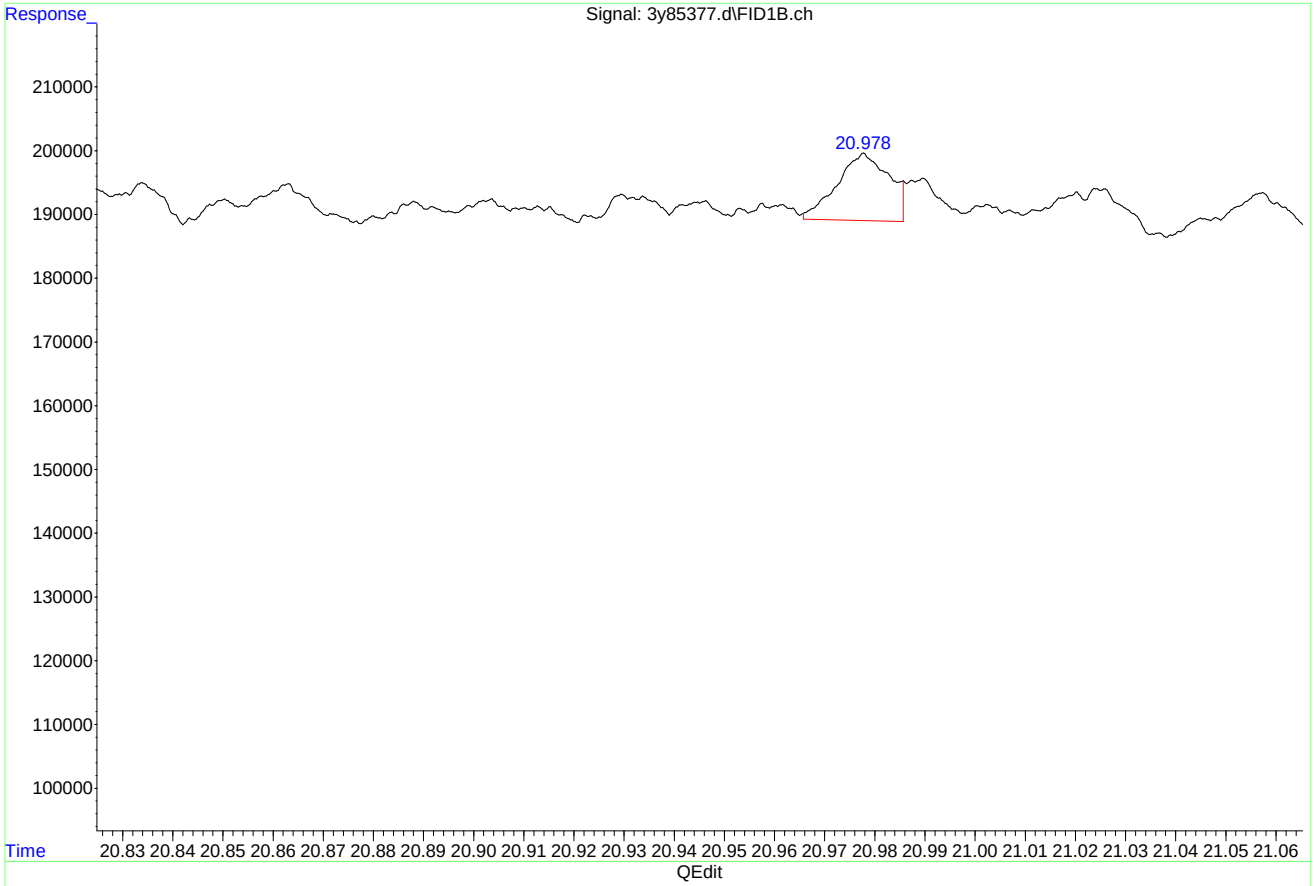
eph3y3347.m Tue Sep 27 16:23:30 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(21) Benzo(ghi)Perylene (T)

20.978min 0.130 ug/l m

response 75079

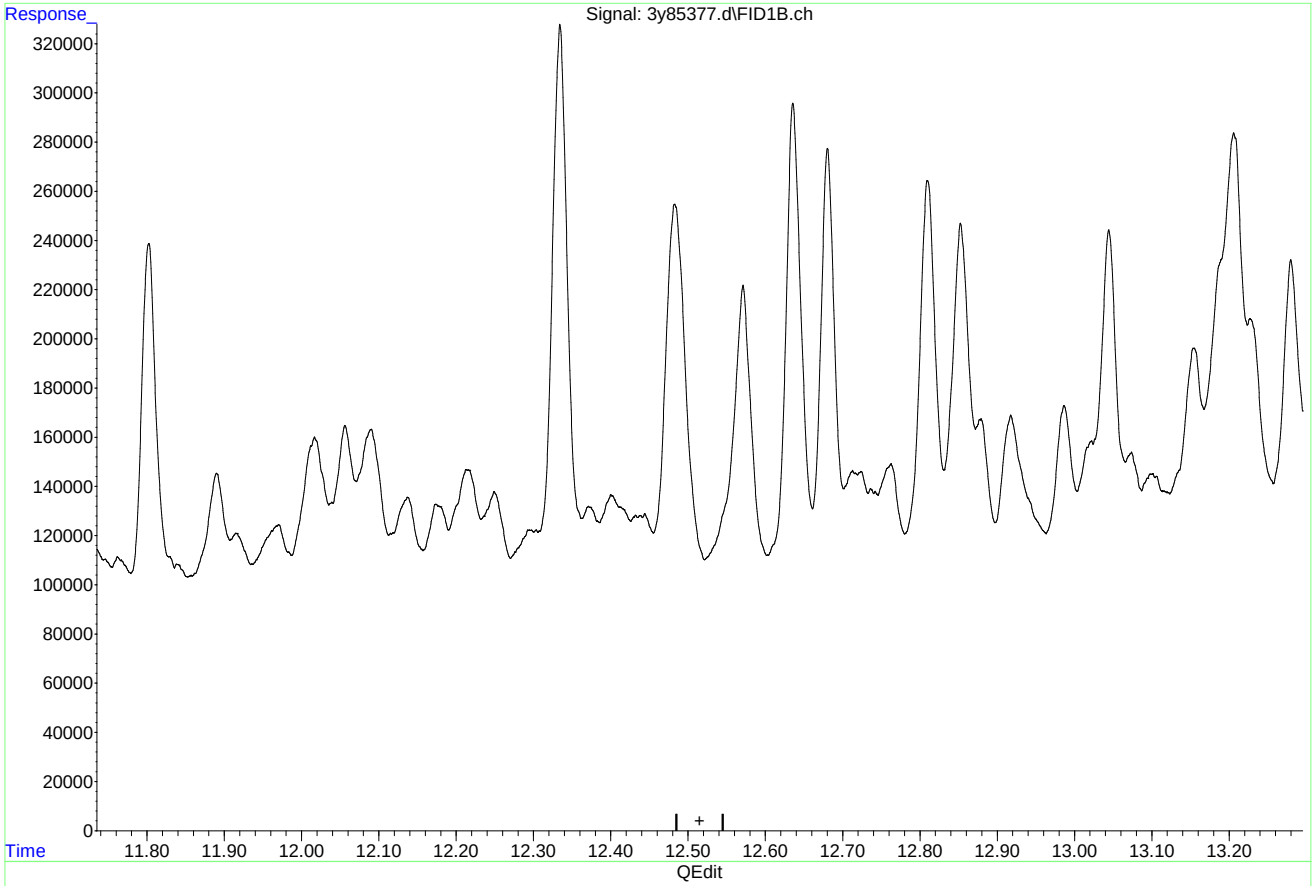
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(26) o-Terphenyl (S) (S)

12.515min 0.000 ug/L

response 0

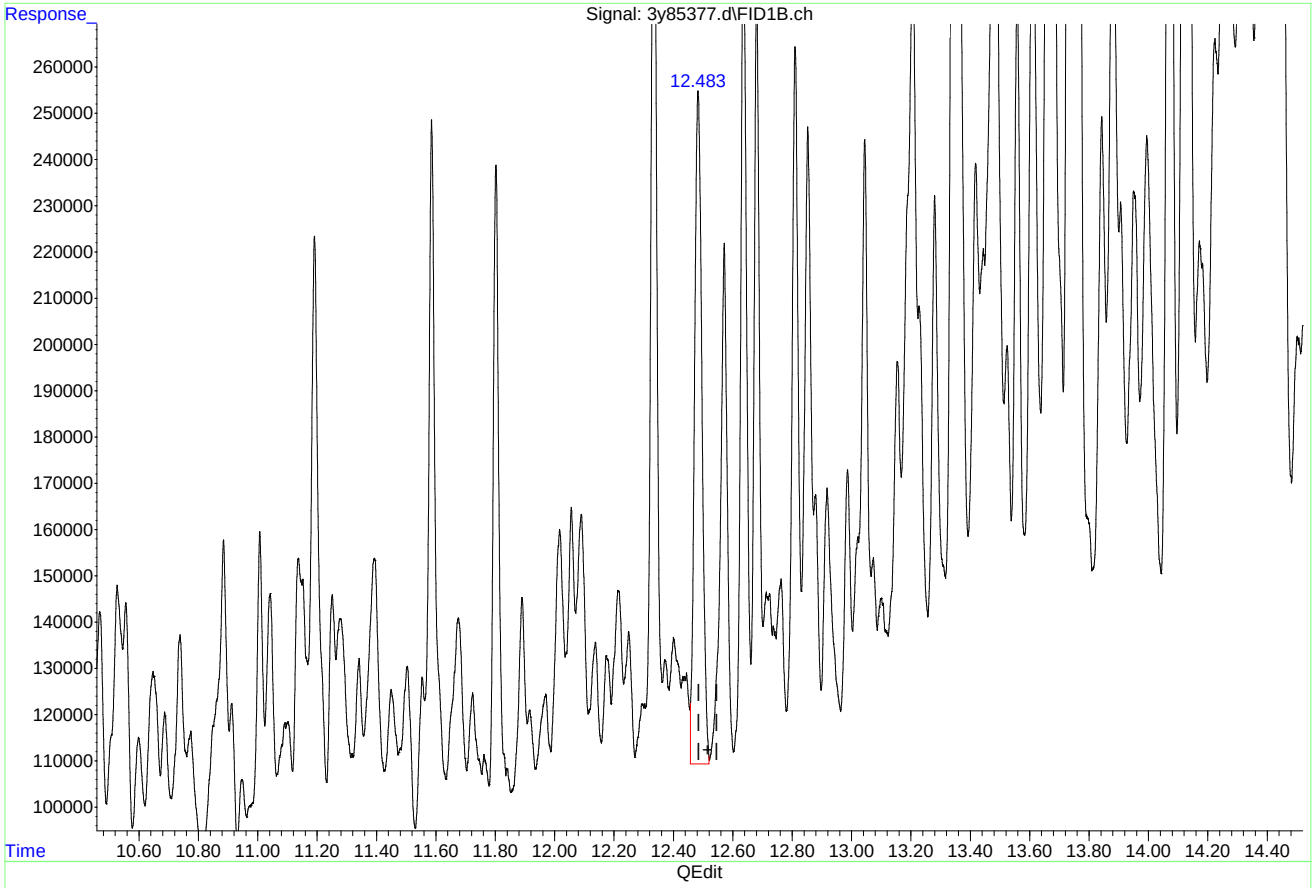
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(26) o-Terphenyl (S) (S)

12.483min 3.977 ug/L m

response 2535271

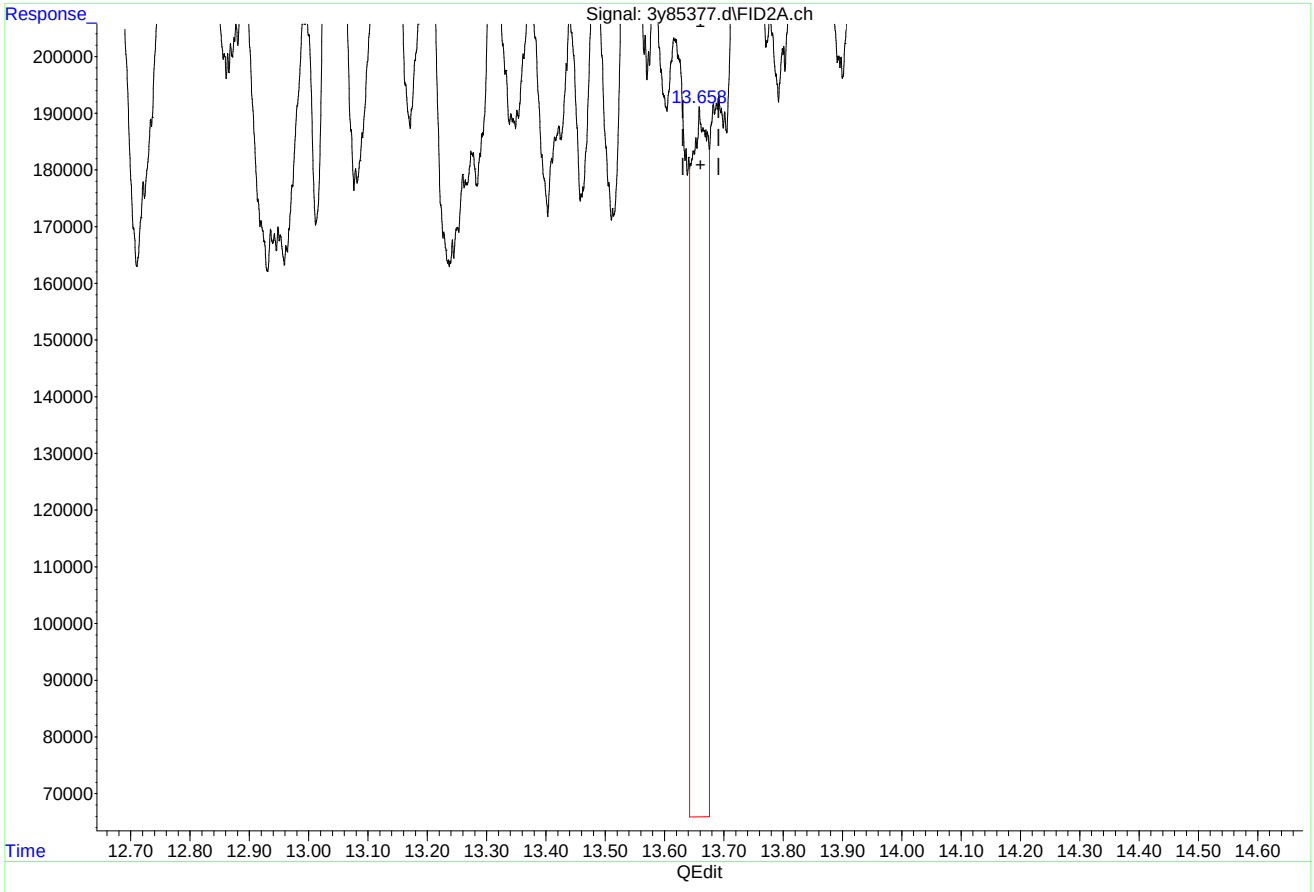
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 12:05 am
Operator : thomasl
Sample : op41903-ms
Misc : op41903,g3y3348,15.0,,,10,10
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(55) 1-Chlorooctadecane (S) (S)

13.661min 4.537 ug/L

response 2387984

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:25:04 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\
Data File : 3y85377.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022  12:05 am
Operator  : thomasl
Sample    : op41903-ms
Misc      : op41903,g3y3348,15.0,,,10,10
ALS Vial  : 23   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 27 16:20:27 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```

(55) 1-Chlorooctadecane (S) (S)

13.658min 0.244 ug/L m

response 128390

(+) = Expected Retention Time

eph3y3347.m Tue Sep 27 16:25:11 2022

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
09/30/22 15:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,10,10
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 15:00:56 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
24) S	2-Fluorobiphenyl (S)	8.232	12046130	20.623	ug/L	
26) S	o-Terphenyl (S)	12.483f	7072785	11.094	ug/L	m
55) S	1-Chlorooctadecane (S)	13.669	257405	0.489	ug/L	m
Target Compounds						
1) T	1,2,3-Trimethylbenzene	4.626	845776	1.278	ug/l	m
2) T	Naphthalene	6.454	3139392	4.560	ug/L	m
4) T	2-Methylnaphthalene	7.586	10238045	15.160	ug/L	
5) T	Acenaphthylene	9.070f	2883691	4.379	ug/l	m
6) T	Acenaphthene	9.334f	3737836	5.325	ug/l	m
8) T	Fluorene	10.218	4443514	6.706	ug/l	m
9) T	Phenanthrene	11.802	4826580	7.495	ug/l	m
10) T	Anthracene	11.889	1811071	2.826	ug/l	m
11) T	Fluoranthene	13.847	4161605	6.671	ug/l	m
12) T	Pyrene	14.232	2581550	4.033	ug/l	m
14) T	Benzo(a)Anthracene	16.505f	3643676	5.882	ug/l	m
15) T	Chrysene	16.535	1311600	2.124	ug/l	m
16) T	Benzo(b)Fluoranthene	18.396	1368878	2.269	ug/l	m
17) T	Benzo(k)Fluoranthene	18.446	1875759	3.206	ug/l	m
18) T	Benzo(a)Pyrene	18.922	1236709	2.111	ug/l	m
19) T	Indeno(1,2,3-cd)Pyrene	20.631	643135	1.109	ug/l	m
20) T	Dibenzo(ah)Anthracene	20.682	1064593	1.704	ug/l	m
21) T	Benzo(ghi)Perylene	20.982	741052	1.280	ug/l	m
23) H	C11-C22 Aromatics (Un...	13.720	2416161818	3827.832	ug/L	
51) H	C9-C18 Aliphatics	7.580	848450877	1390.163	ug/L	
52) H	C19-C36 Aliphatics	17.380	4157220505	7079.235	ug/L	

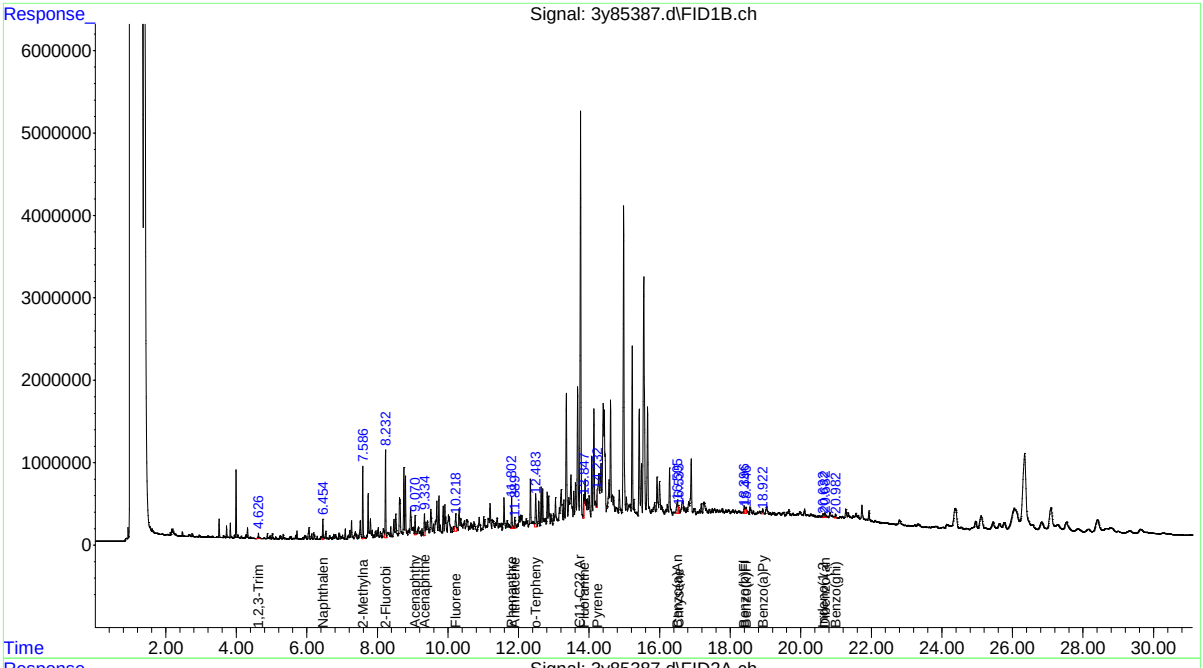
(f)=RT Delta > 1/2 Window (m)=manual int.

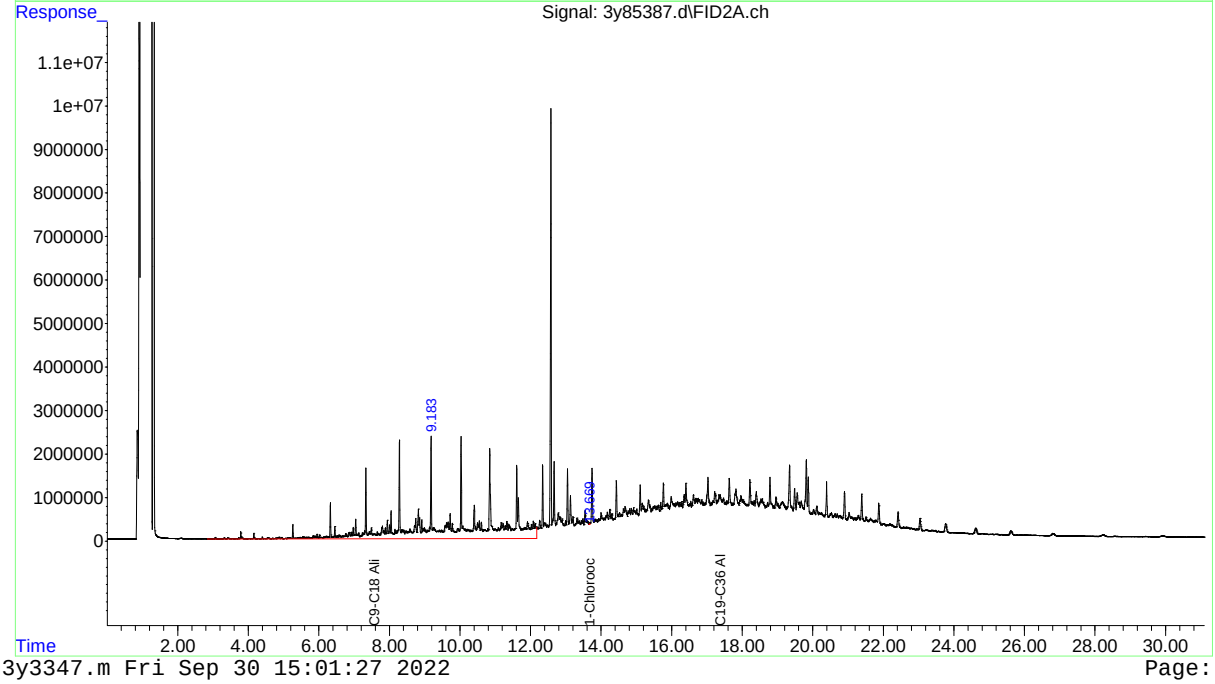
Quantitation Report (QT Reviewed)

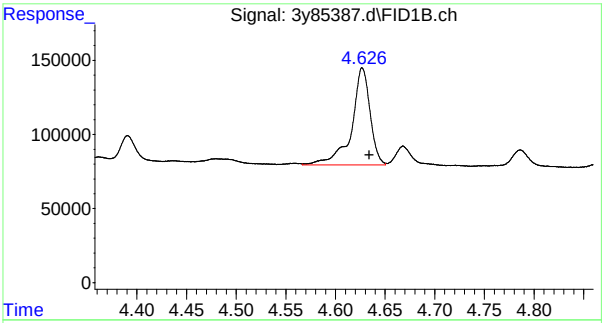
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,10,10
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 15:00:56 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

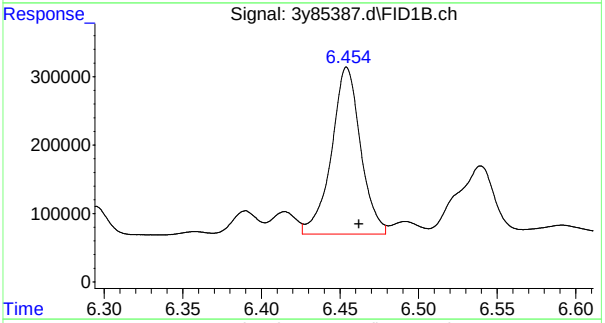






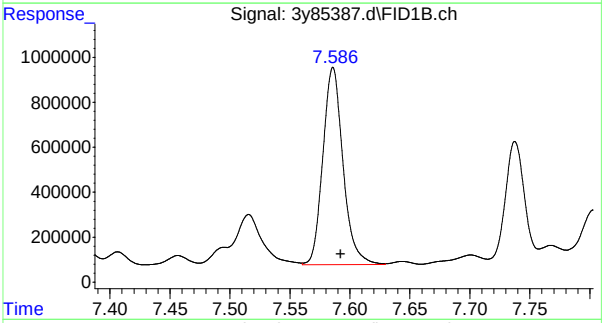
#1 1,2,3-Trimethylbenzene

R.T.: 4.626 min
Delta R.T.: -0.008 min
Response: 845776
Conc: 1.28 ug/l m



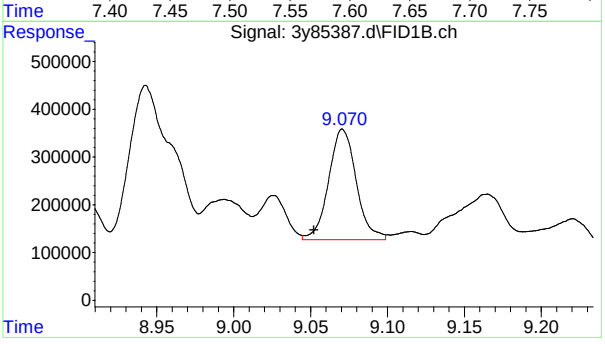
#2 Naphthalene

R.T.: 6.454 min
Delta R.T.: -0.008 min
Response: 3139392
Conc: 4.56 ug/L m



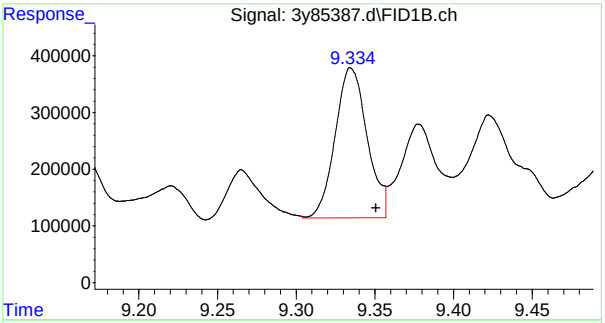
#4 2-Methylnaphthalene

R.T.: 7.586 min
Delta R.T.: -0.006 min
Response: 10238045
Conc: 15.16 ug/L



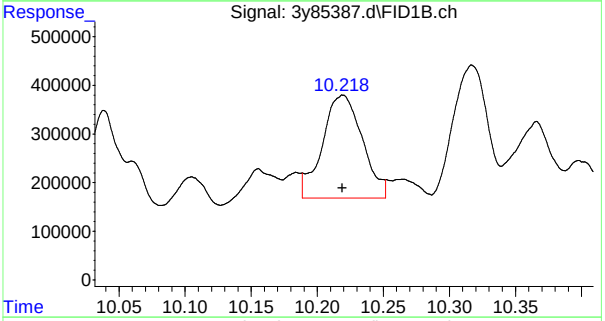
#5 Acenaphthylene

R.T.: 9.070 min
Delta R.T.: 0.018 min
Response: 2883691
Conc: 4.38 ug/l m



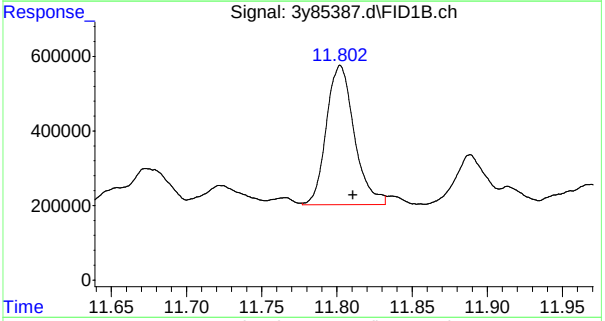
#6 Acenaphthene

R.T.: 9.334 min
Delta R.T.: -0.016 min
Response: 3737836
Conc: 5.32 ug/l m



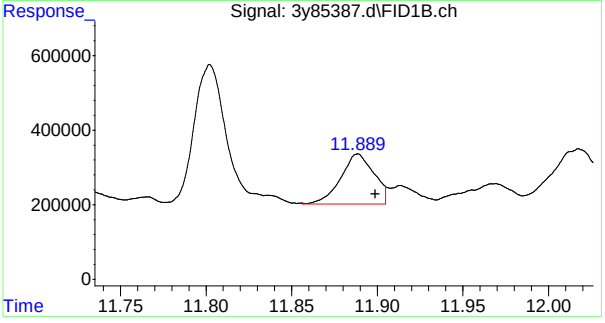
#8 Fluorene

R.T.: 10.218 min
Delta R.T.: 0.000 min
Response: 4443514
Conc: 6.71 ug/l m



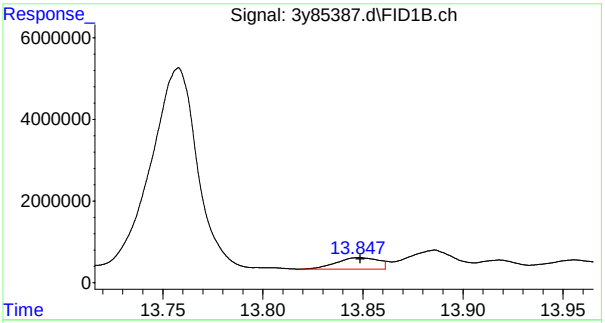
#9 Phenanthrene

R.T.: 11.802 min
Delta R.T.: -0.009 min
Response: 4826580
Conc: 7.49 ug/l m



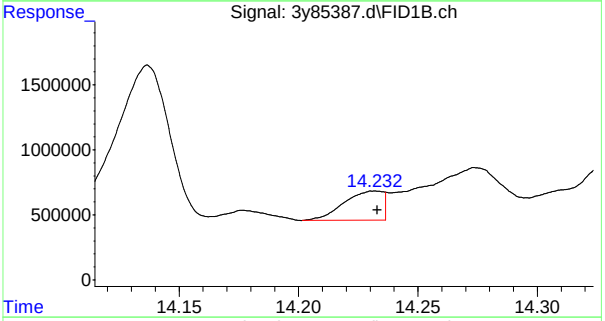
#10 Anthracene

R.T.: 11.889 min
Delta R.T.: -0.010 min
Response: 1811071
Conc: 2.83 ug/l m



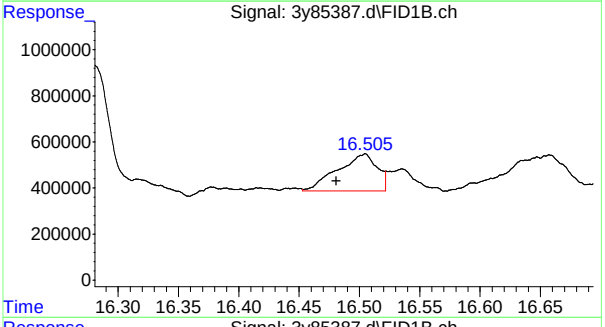
#11 Fluoranthene

R.T.: 13.847 min
Delta R.T.: -0.001 min
Response: 4161605
Conc: 6.67 ug/l m



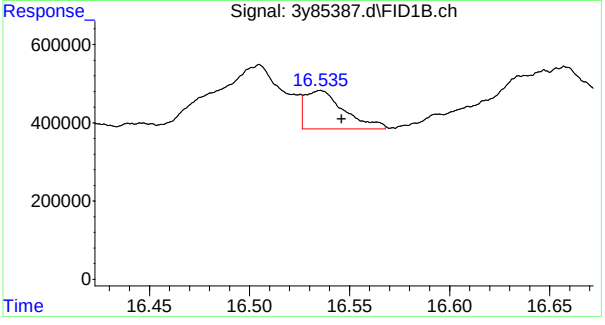
#12 Pyrene

R.T.: 14.232 min
Delta R.T.: -0.001 min
Response: 2581550
Conc: 4.03 ug/l m



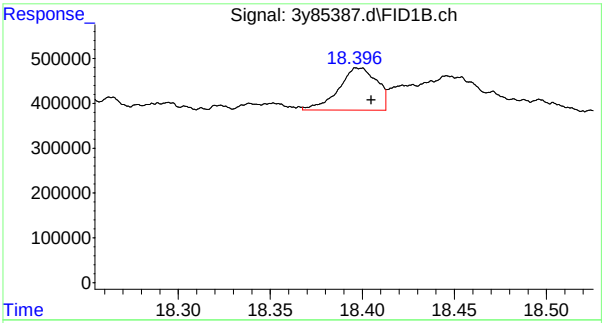
#14 Benzo(a)Anthracene

R.T.: 16.505 min
Delta R.T.: 0.024 min
Response: 3643676
Conc: 5.88 ug/l m



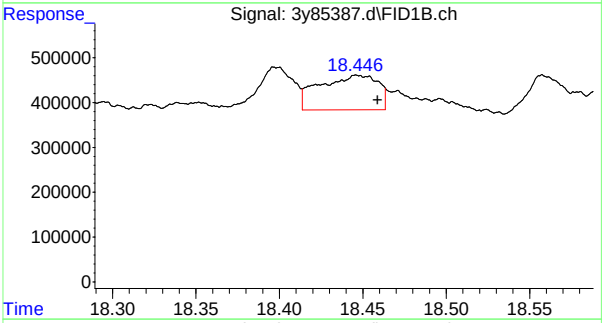
#15 Chrysene

R.T.: 16.535 min
Delta R.T.: -0.011 min
Response: 1311600
Conc: 2.12 ug/l m



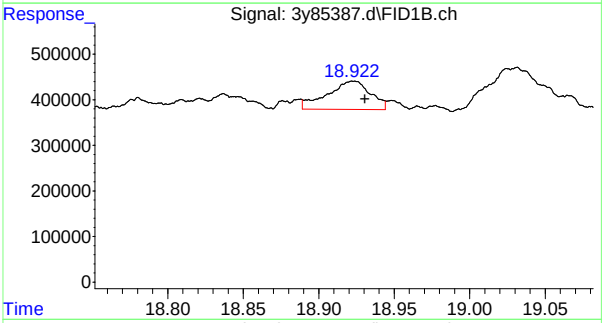
#16 Benzo(b)Fluoranthene

R.T.: 18.396 min
Delta R.T.: -0.009 min
Response: 1368878
Conc: 2.27 ug/l m



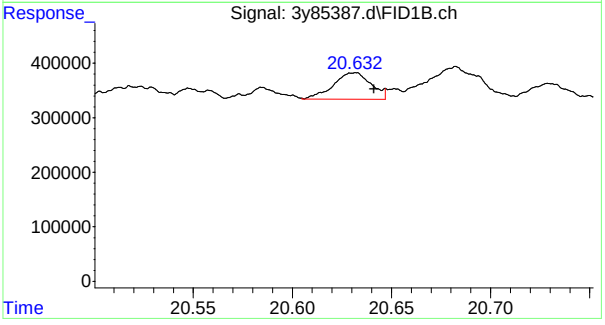
#17 Benzo(k)Fluoranthene

R.T.: 18.446 min
Delta R.T.: -0.013 min
Response: 1875759
Conc: 3.21 ug/l m



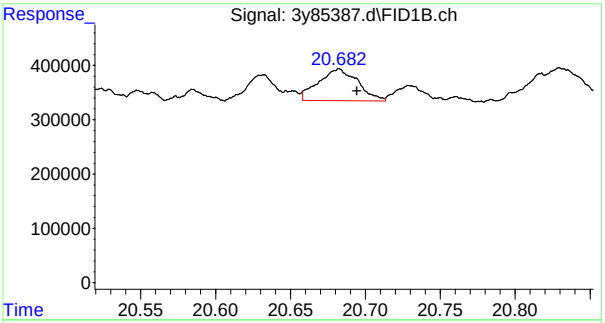
#18 Benzo(a)Pyrene

R.T.: 18.922 min
Delta R.T.: -0.009 min
Response: 1236709
Conc: 2.11 ug/l m



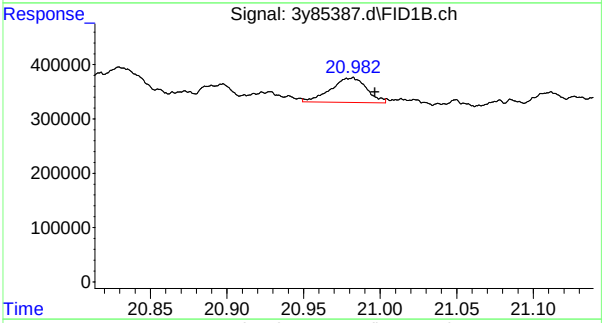
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.631 min
Delta R.T.: -0.010 min
Response: 643135
Conc: 1.11 ug/l m



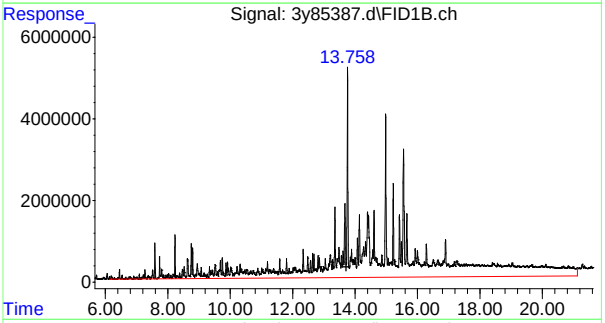
#20 Dibenzo(ah)Anthracene

R.T.: 20.682 min
Delta R.T.: -0.012 min
Response: 1064593
Conc: 1.70 ug/l m



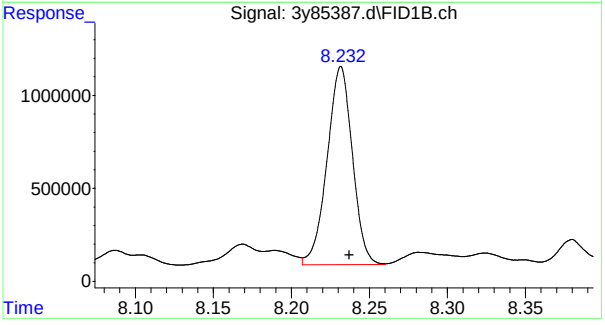
#21 Benzo(ghi)Perylene

R.T.: 20.982 min
Delta R.T.: -0.014 min
Response: 741052
Conc: 1.28 ug/l m



#23 C11-C22 Aromatics (Unadj.)

R.T.: 13.720 min
Delta R.T.: 0.000 min
Response: 2416161818
Conc: 3827.83 ug/L

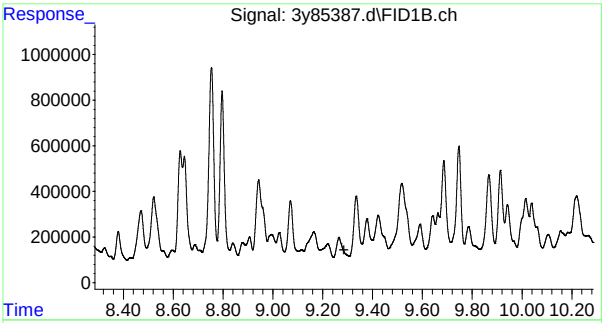


#24 2-Fluorobiphenyl (S)

R.T.: 8.232 min
Delta R.T.: -0.005 min
Response: 12046130
Conc: 20.62 ug/L

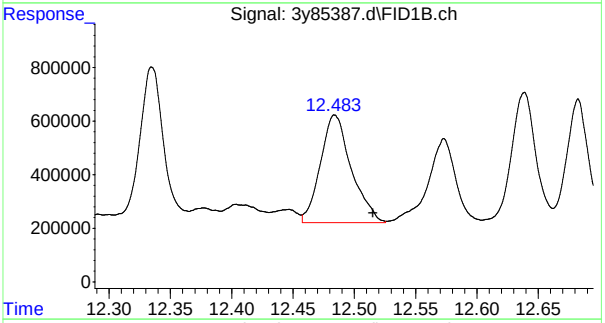
7.4.2

7



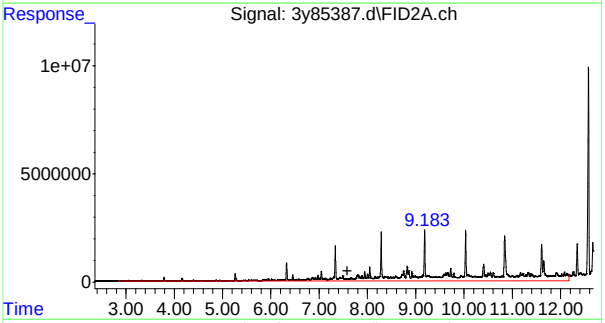
#25 2-Bromonaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 9.285 min
Response: 0
Conc: N.D.



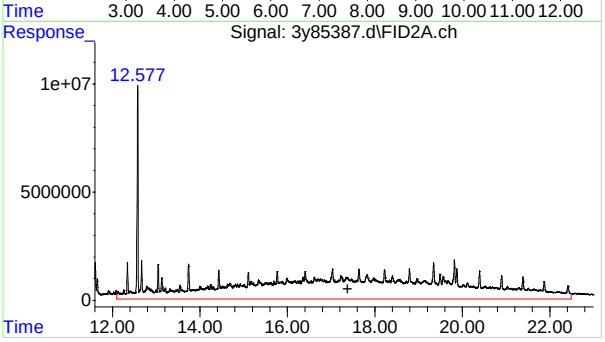
#26 o-Terphenyl (S)

R.T.: 12.483 min
Delta R.T.: -0.032 min
Response: 7072785
Conc: 11.09 ug/L m



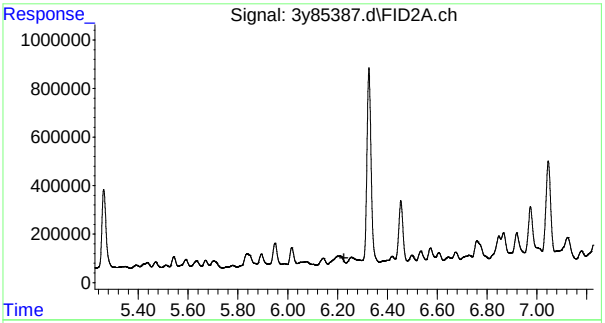
#51 C9-C18 Aliphatics

R.T.: 7.580 min
Delta R.T.: 0.000 min
Response: 848450877
Conc: 1390.16 ug/L



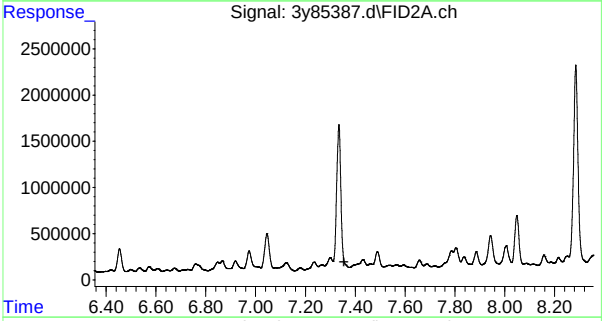
#52 C19-C36 Aliphatics

R.T.: 17.380 min
Delta R.T.: 0.000 min
Response: 4157220505
Conc: 7079.23 ug/L



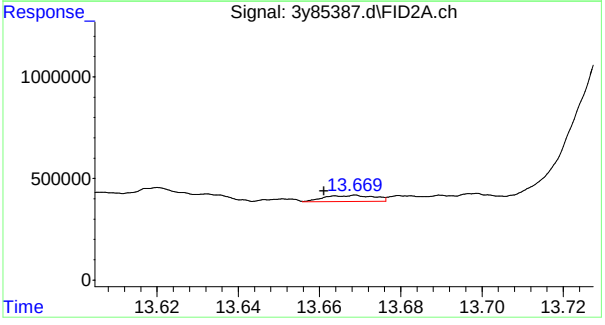
#53 Naphthalene (S)

R.T.: 0.000 min
Exp R.T. : 6.225 min
Response: 0
Conc: N.D.



#54 2-Methylnaphthalene (S)

R.T.: 0.000 min
Exp R.T. : 7.354 min
Response: 0
Conc: N.D.



#55 1-Chlorooctadecane (S)

R.T.: 13.669 min
Delta R.T.: 0.008 min
Response: 257405
Conc: 0.49 ug/L m

7.4.2

7

Manual Integration Approval Summary

Sample Number: OP41903-MSD
Lab FileID: 3Y85387.D
Injection Time: 09/28/22 18:03
Method: MADEP EPH REV 2.1
Analyst approved: 09/30/22 15:10 Gwendolyn Burns
Supervisor approved: 09/30/22 15:14 Gwendolyn Burns

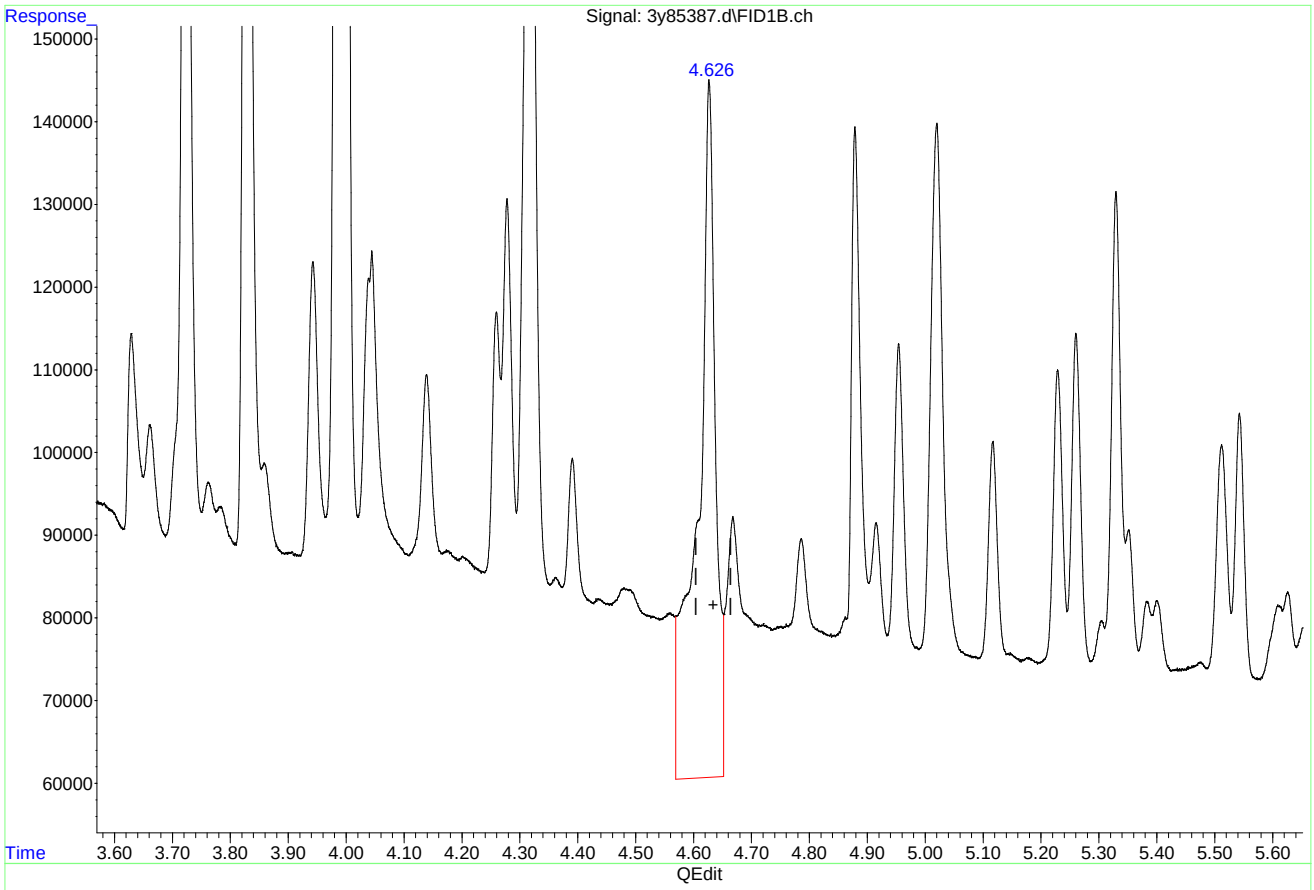
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3	1	6.45	Poorly defined baseline
Acenaphthylene	208-96-8	1	9.07	Poorly defined baseline
Acenaphthene	83-32-9	1	9.33	Poorly defined baseline
Fluorene	86-73-7	1	10.22	Poorly defined baseline
Phenanthrene	85-01-8	1	11.80	Poorly defined baseline
Anthracene	120-12-7	1	11.89	Poorly defined baseline
o-Terphenyl	84-15-1	1	12.48	Poorly defined baseline
1-Chlorooctadecane	3386-33-2	2	13.67	Poorly defined baseline
Fluoranthene	206-44-0	1	13.85	Poorly defined baseline
Pyrene	129-00-0	1	14.23	Poorly defined baseline
Benzo(a)anthracene	56-55-3	1	16.50	Poorly defined baseline
Chrysene	218-01-9	1	16.54	Poorly defined baseline
Benzo(b)fluoranthene	205-99-2	1	18.40	Poorly defined baseline
Benzo(k)fluoranthene	207-08-9	1	18.45	Poorly defined baseline
Benzo(a)pyrene	50-32-8	1	18.92	Poorly defined baseline
Indeno(1,2,3-cd)pyrene	193-39-5	1	20.63	Poorly defined baseline
Dibenzo(a,h)anthracene	53-70-3	1	20.68	Poorly defined baseline
Benzo(g,h,i)perylene	191-24-2	1	20.98	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.627min 2.696 ug/l

response 1783720

(+) = Expected Retention Time

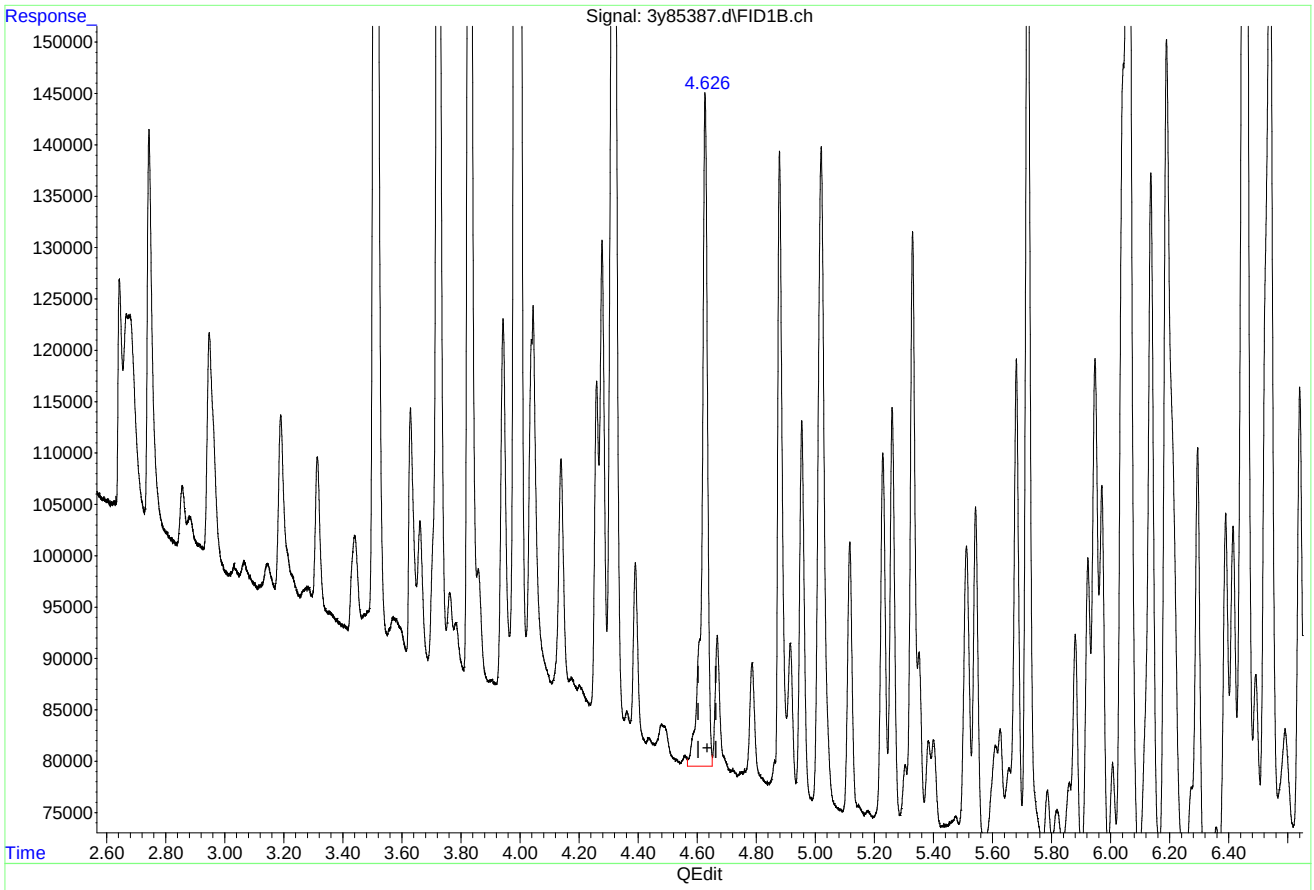
eph3y3347.m Fri Sep 30 14:56:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(1) 1,2,3-Trimethylbenzene (T)

4.626min 1.278 ug/l m

response 845776

(+) = Expected Retention Time

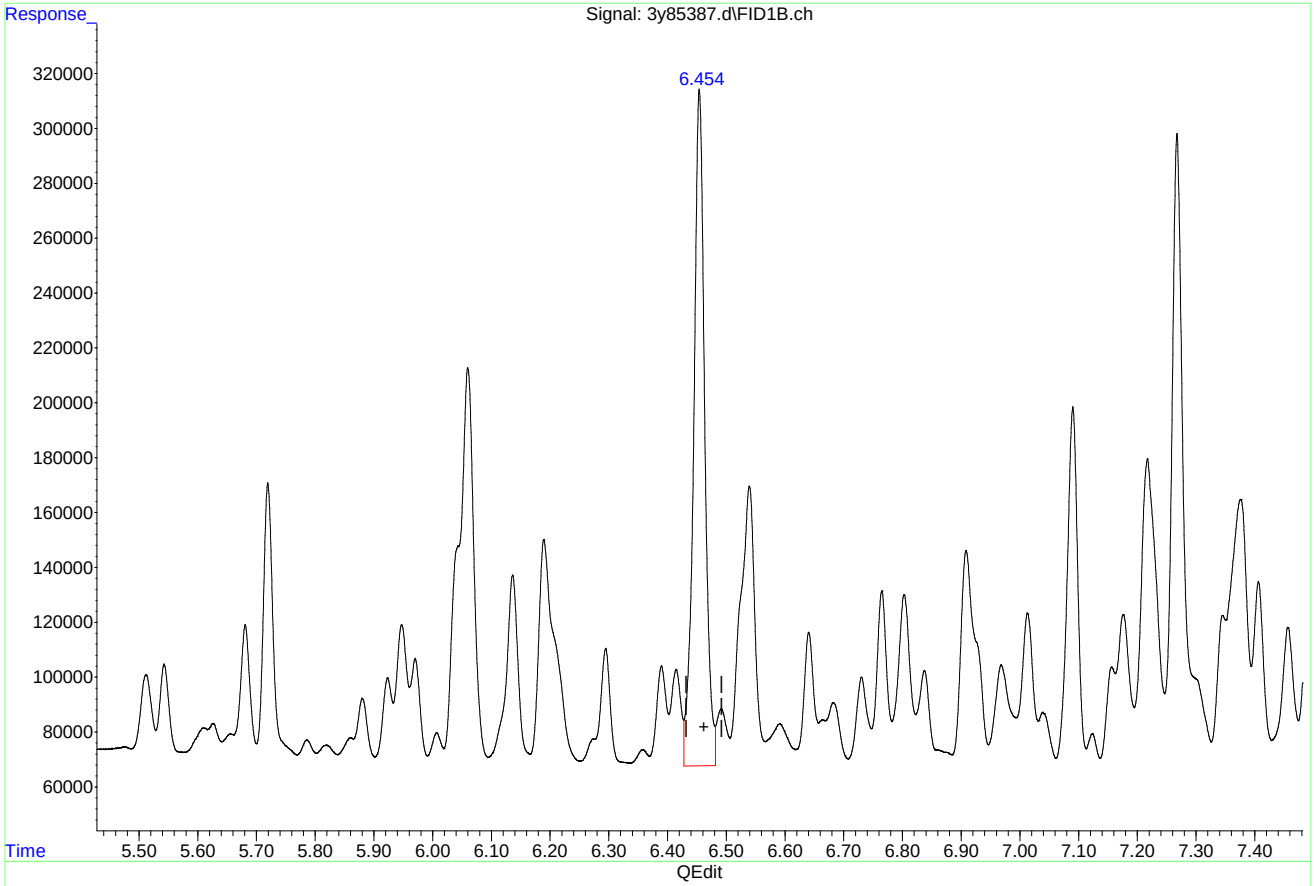
eph3y3347.m Fri Sep 30 14:56:50 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(2) Naphthalene (T)

6.454min 4.678 ug/L

response 3220629

(+) = Expected Retention Time

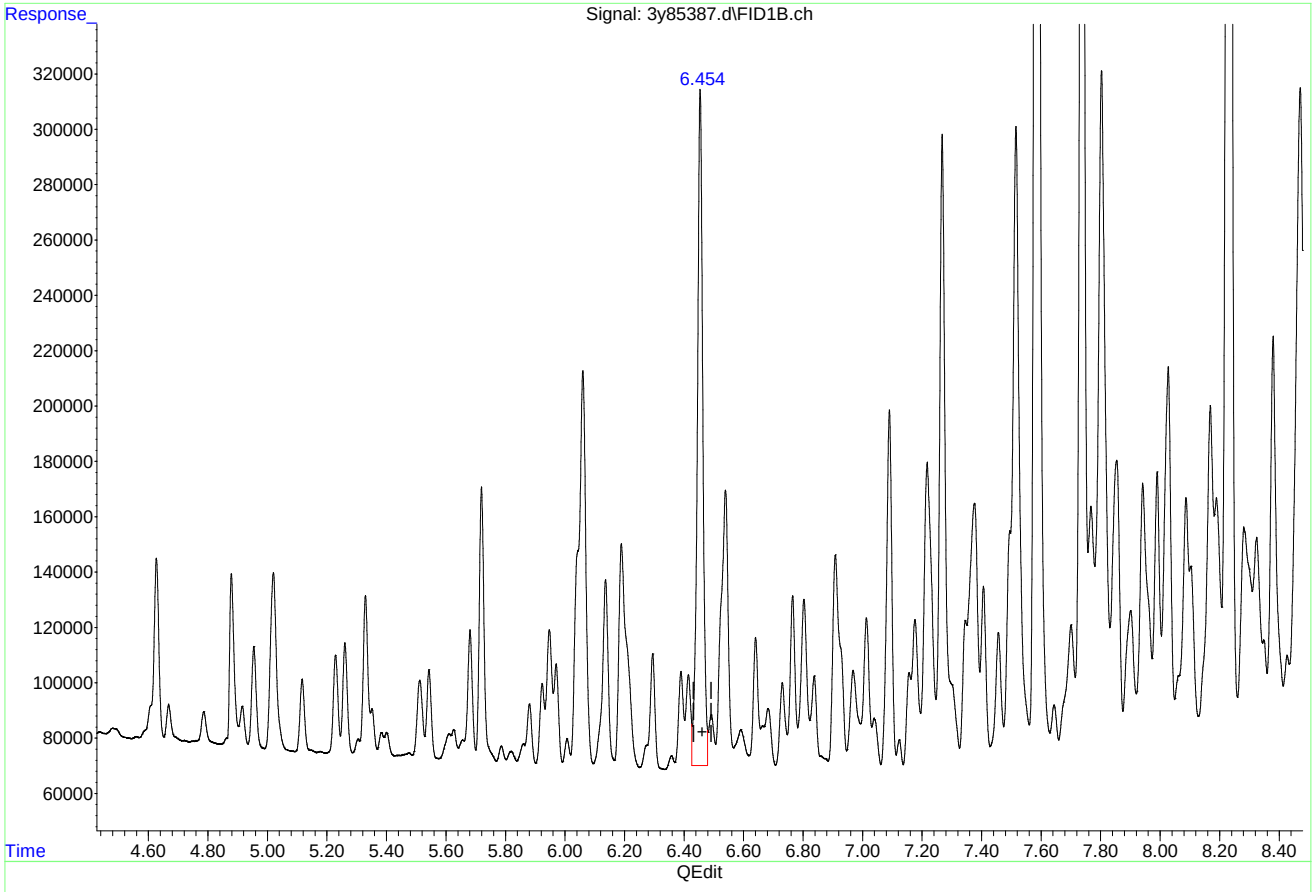
eph3y3347.m Fri Sep 30 14:56:53 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(2) Naphthalene (T)

6.454min 4.560 ug/L m

response 3139392

(+) = Expected Retention Time

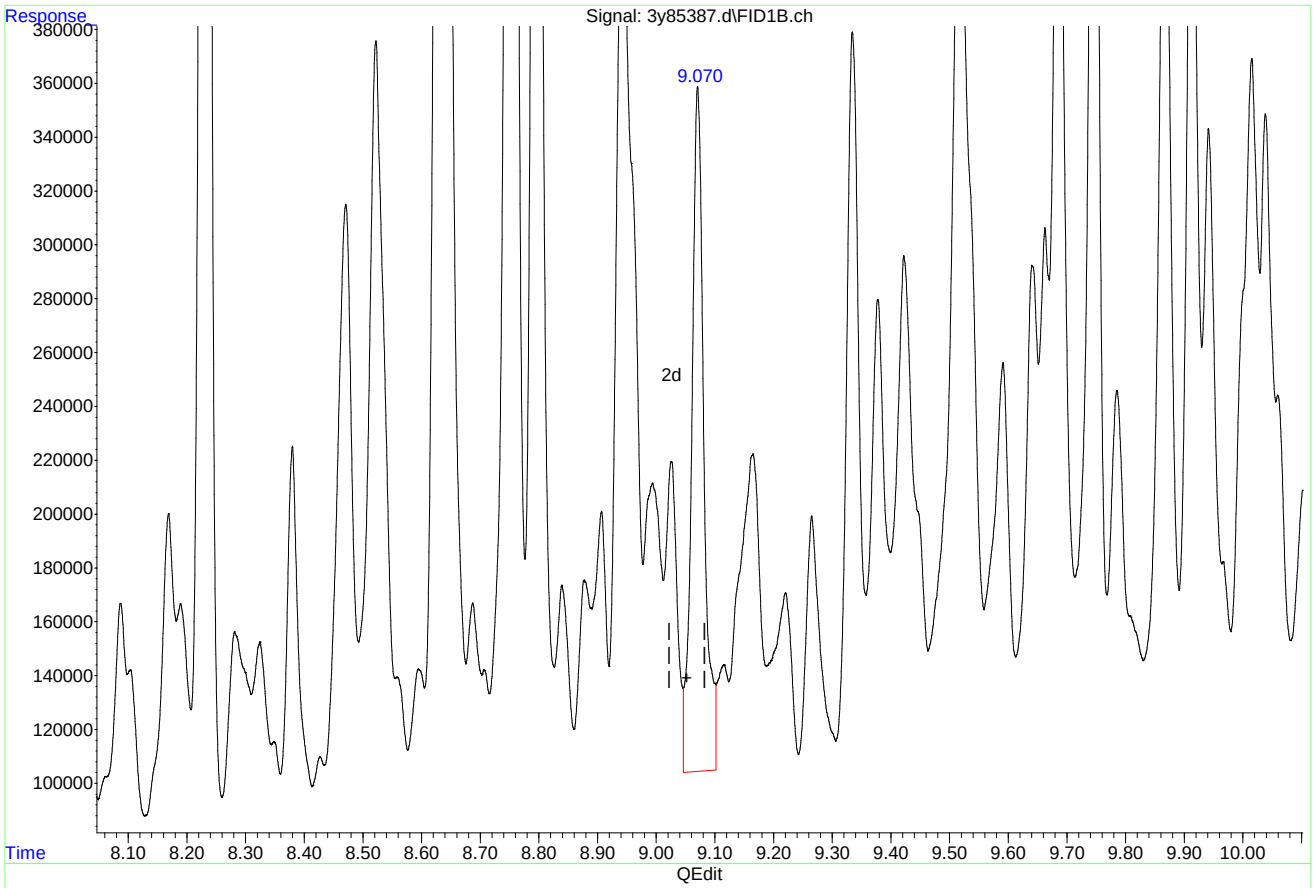
eph3y3347.m Fri Sep 30 14:57:01 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.071min 5.548 ug/l

response 3653927

(+) = Expected Retention Time

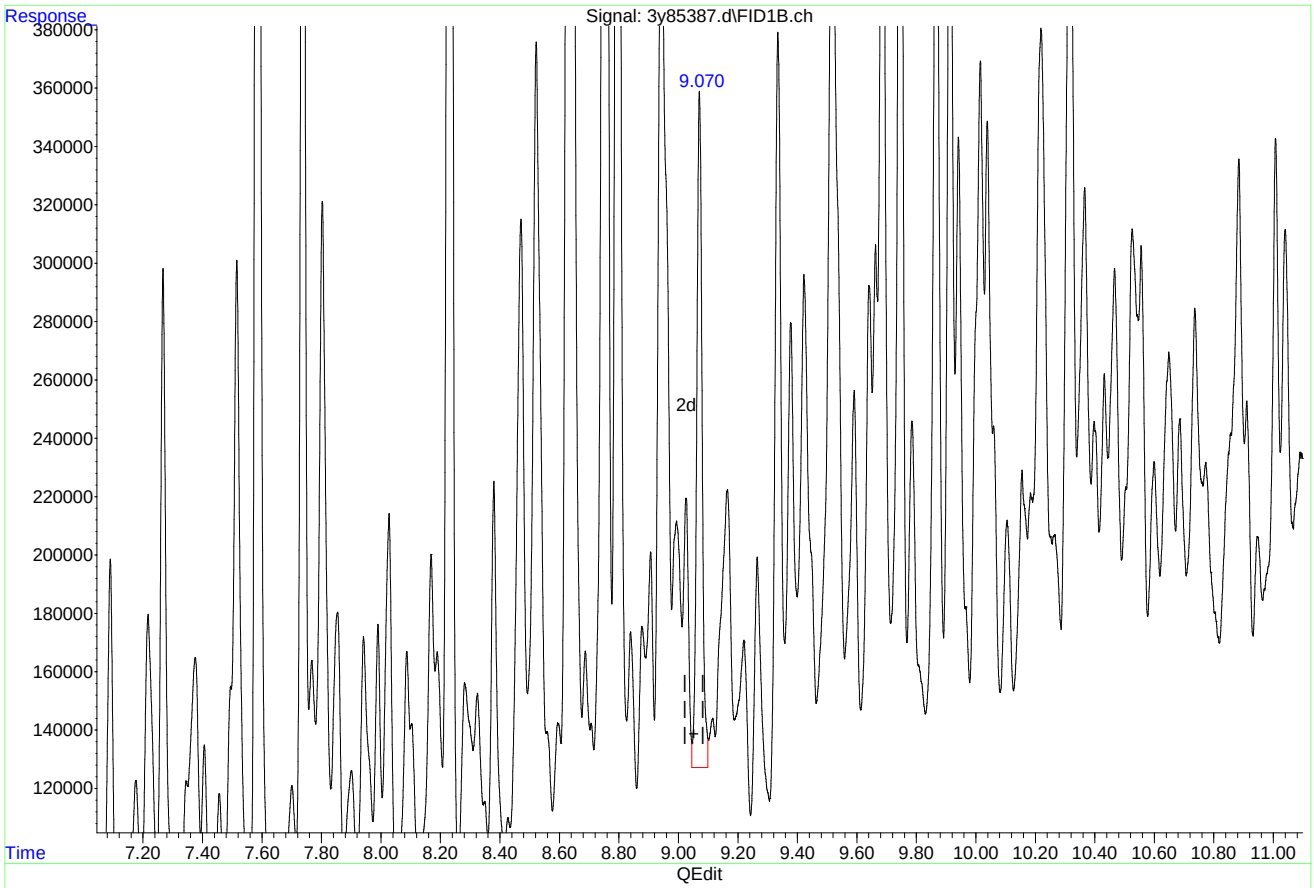
eph3y3347.m Fri Sep 30 14:57:07 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(5) Acenaphthylene (T)

9.070min 4.379 ug/l m

response 2883691

(+) = Expected Retention Time

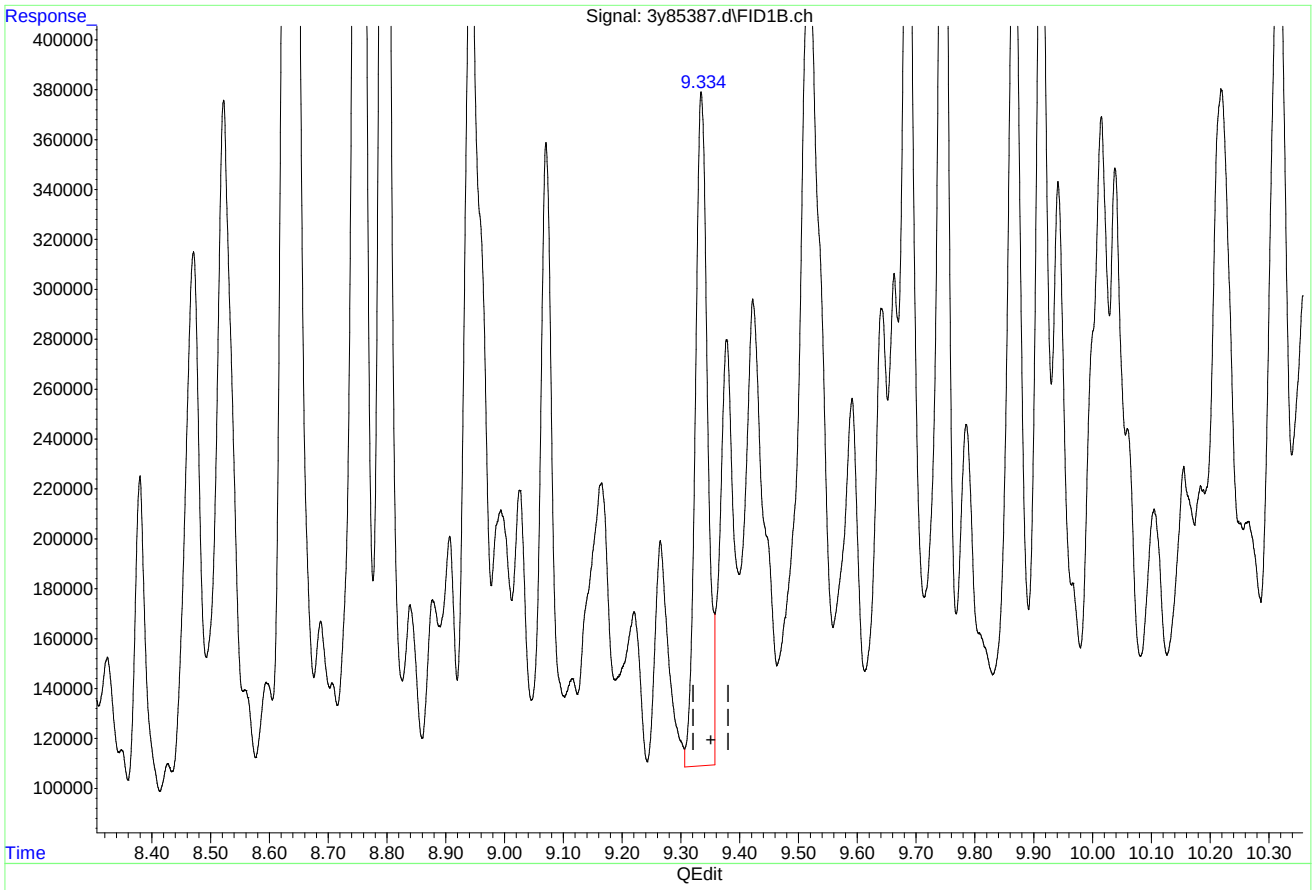
eph3y3347.m Fri Sep 30 14:57:13 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(6) Acenaphthene (T)

9.335min 5.580 ug/l

response 3916852

(+) = Expected Retention Time

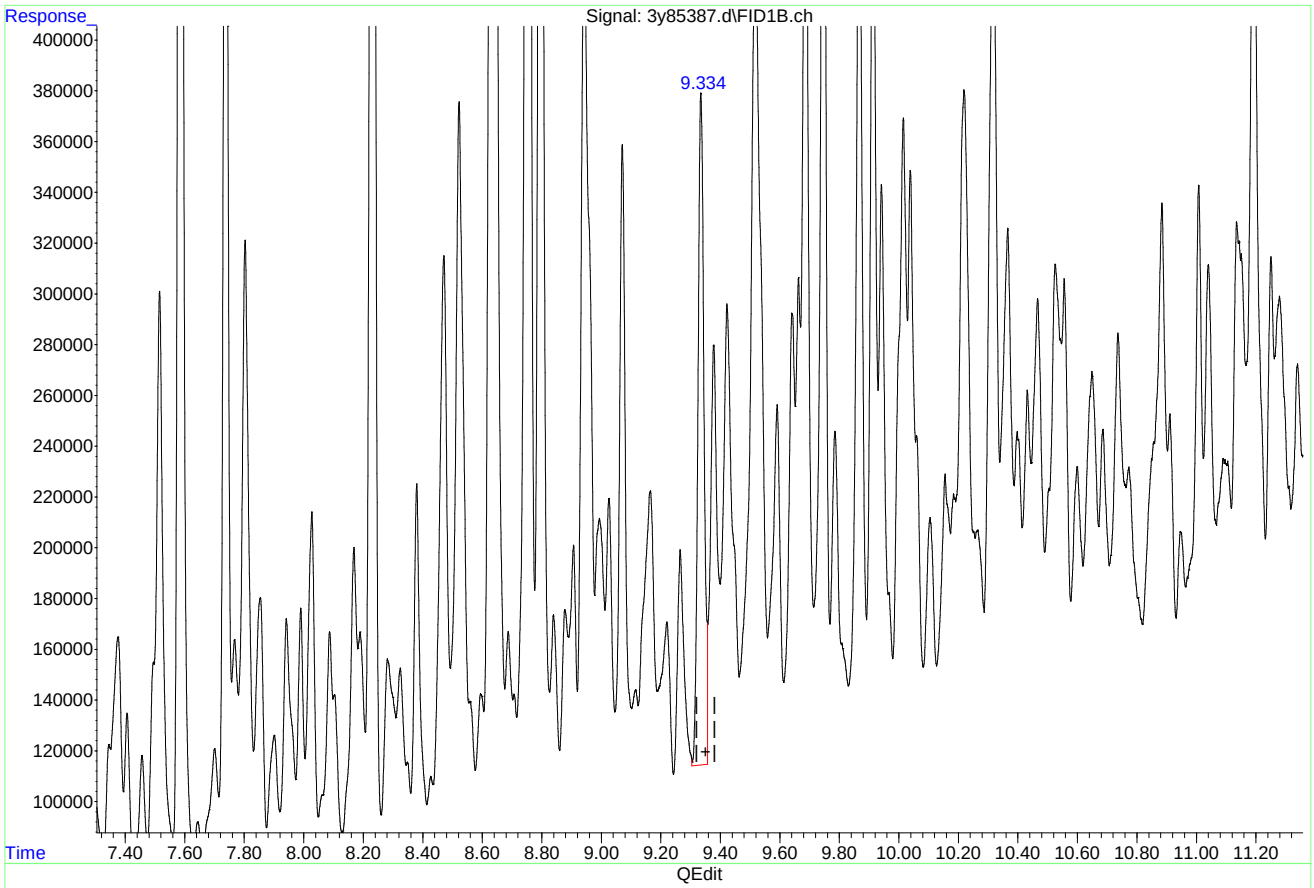
eph3y3347.m Fri Sep 30 14:57:17 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(6) Acenaphthene (T)

9.334min 5.325 ug/l m

response 3737836

(+) = Expected Retention Time

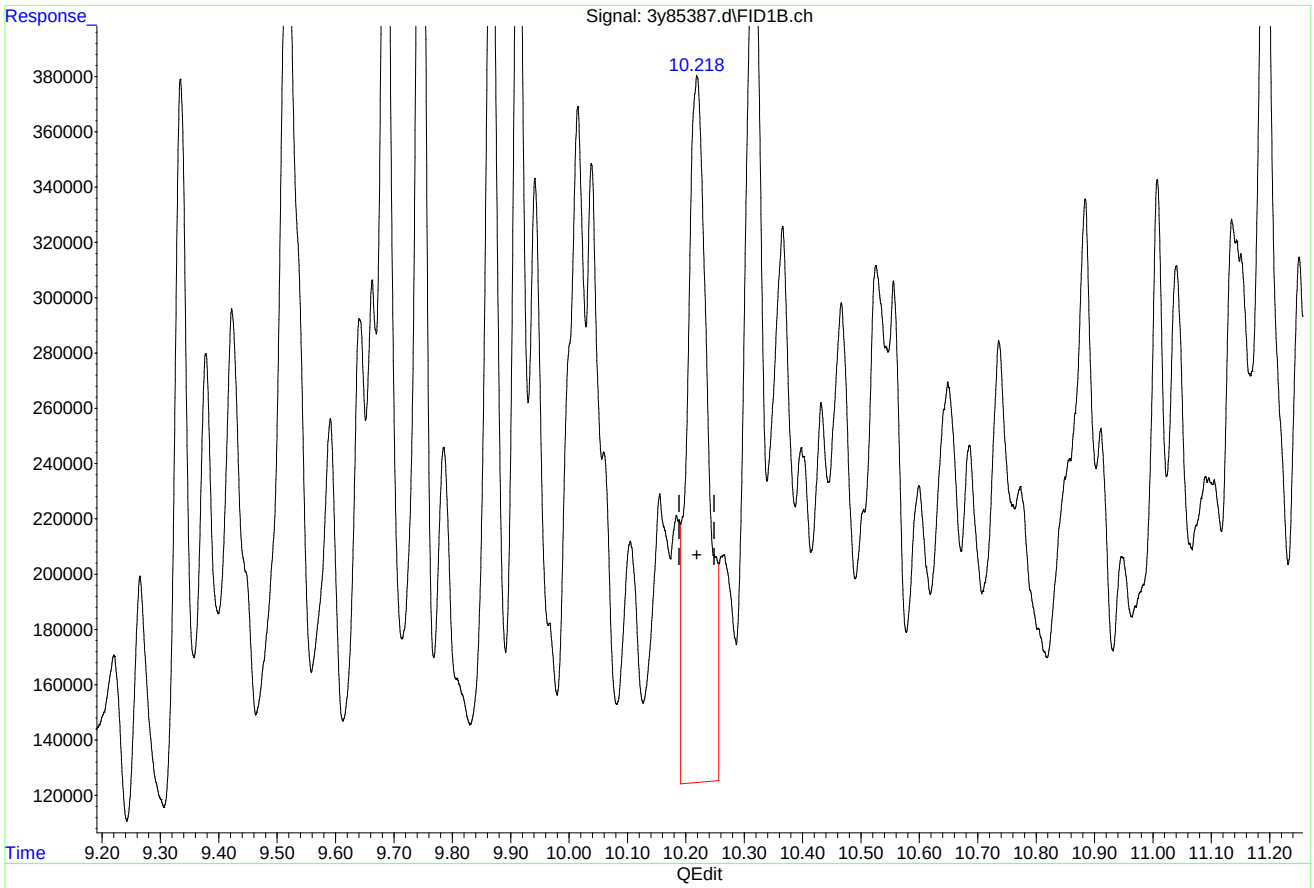
eph3y3347.m Fri Sep 30 14:57:24 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.219min 9.369 ug/l

response 6207887

(+) = Expected Retention Time

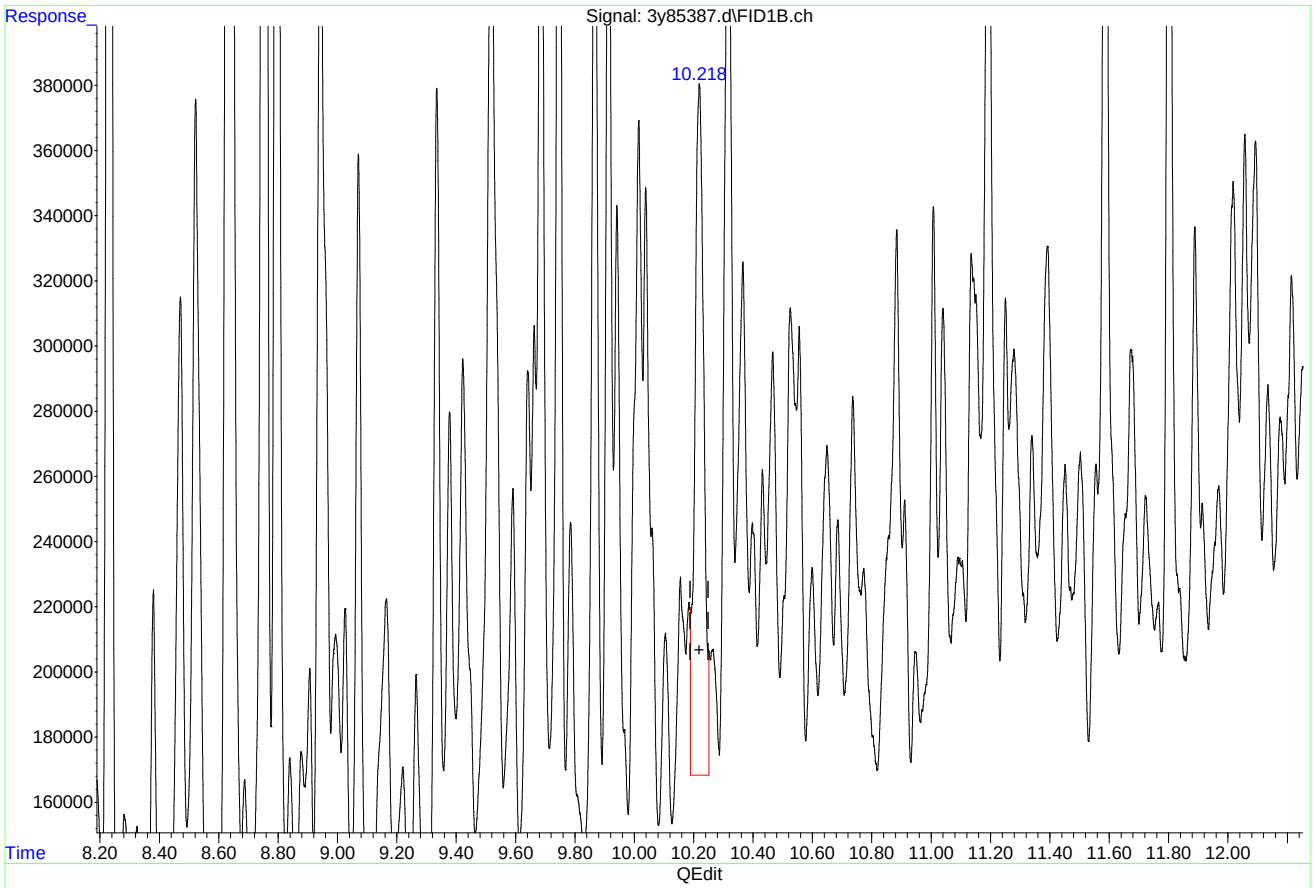
eph3y3347.m Fri Sep 30 14:57:29 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(8) Fluorene (T)

10.218min 6.706 ug/l m

response 4443514

(+) = Expected Retention Time

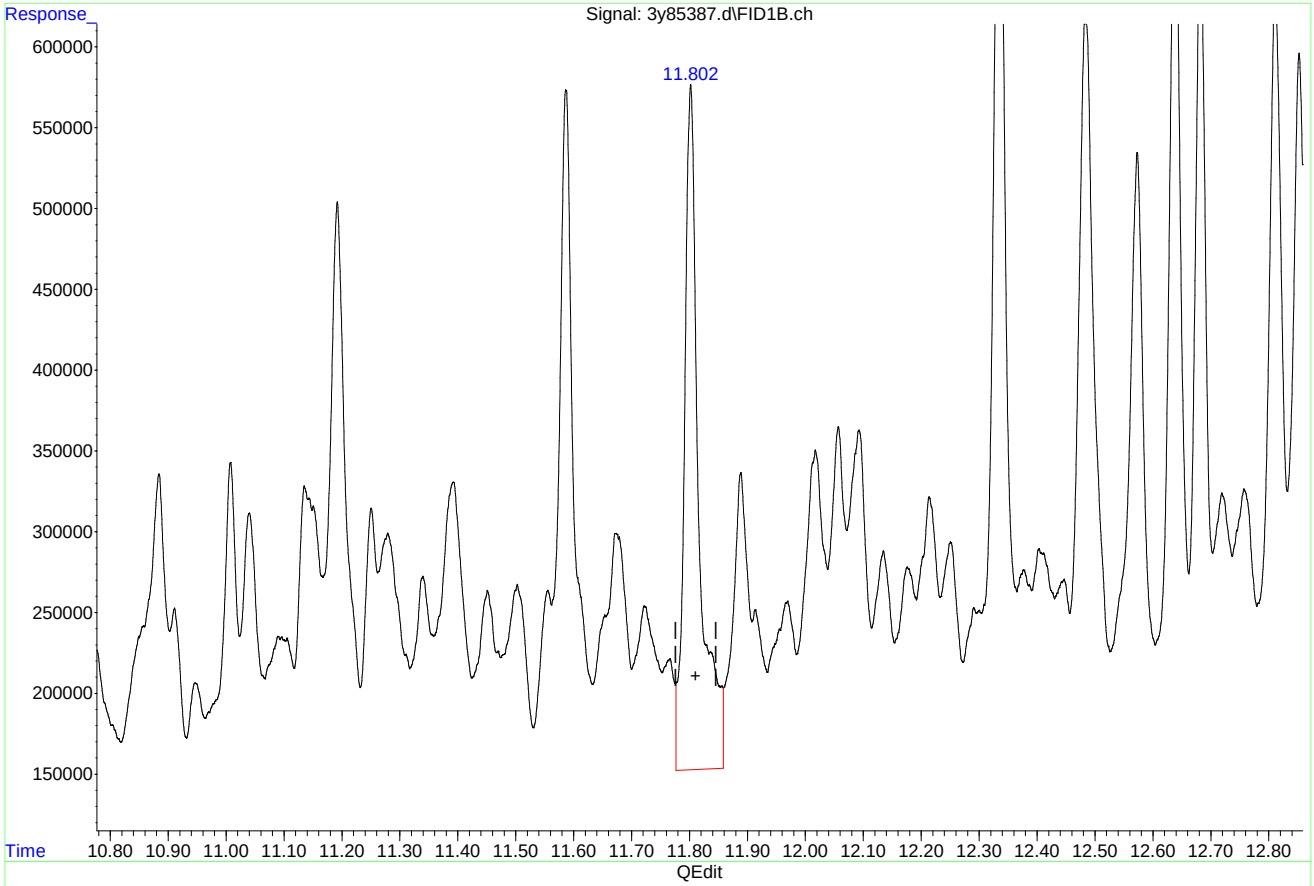
eph3y3347.m Fri Sep 30 14:57:36 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.802min 11.555 ug/l

response 7441410

(+) = Expected Retention Time

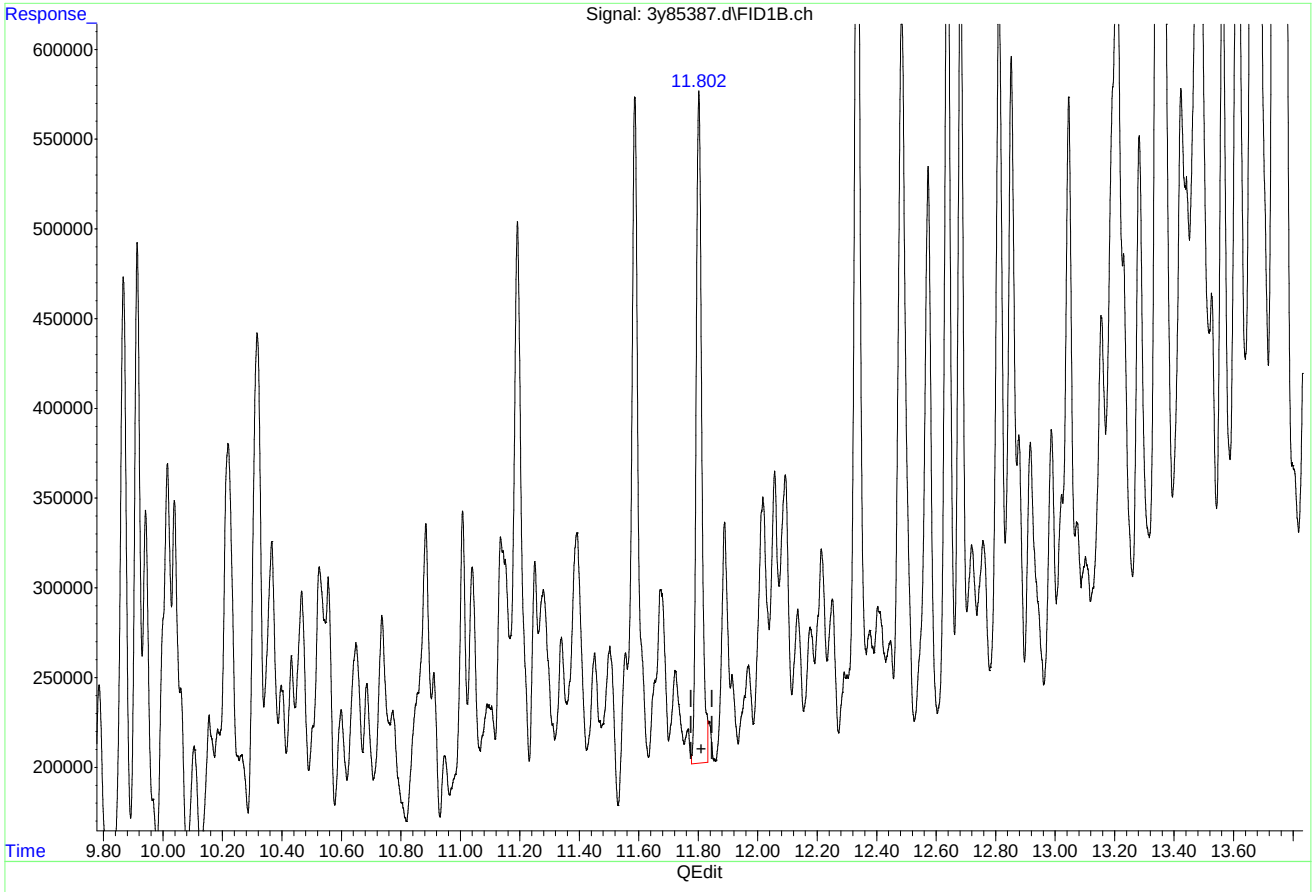
eph3y3347.m Fri Sep 30 14:57:39 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(9) Phenanthrene (T)

11.802min 7.495 ug/l m

response 4826580

(+) = Expected Retention Time

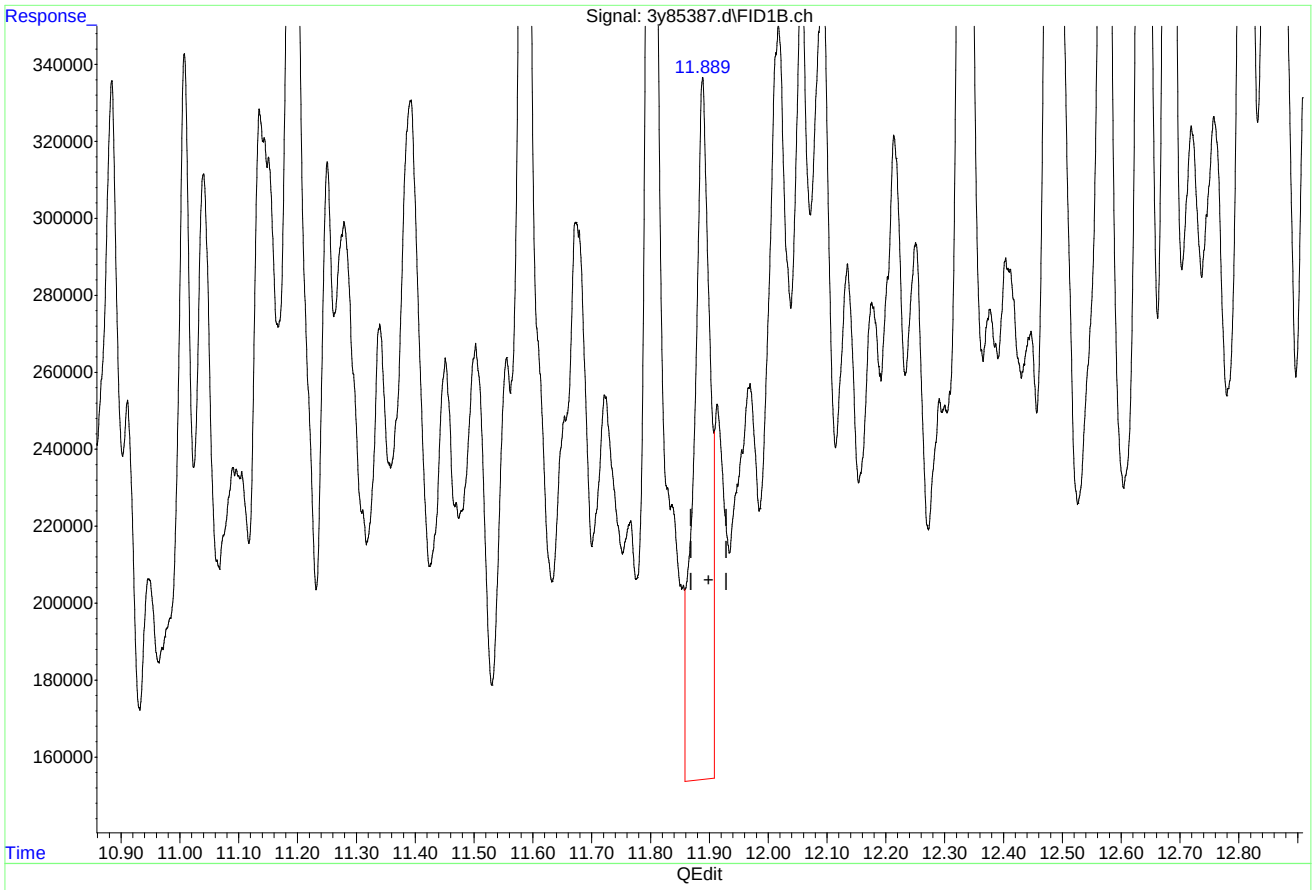
eph3y3347.m Fri Sep 30 14:57:46 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(10) Anthracene (T)

11.889min 5.201 ug/l

response 3333200

(+) = Expected Retention Time

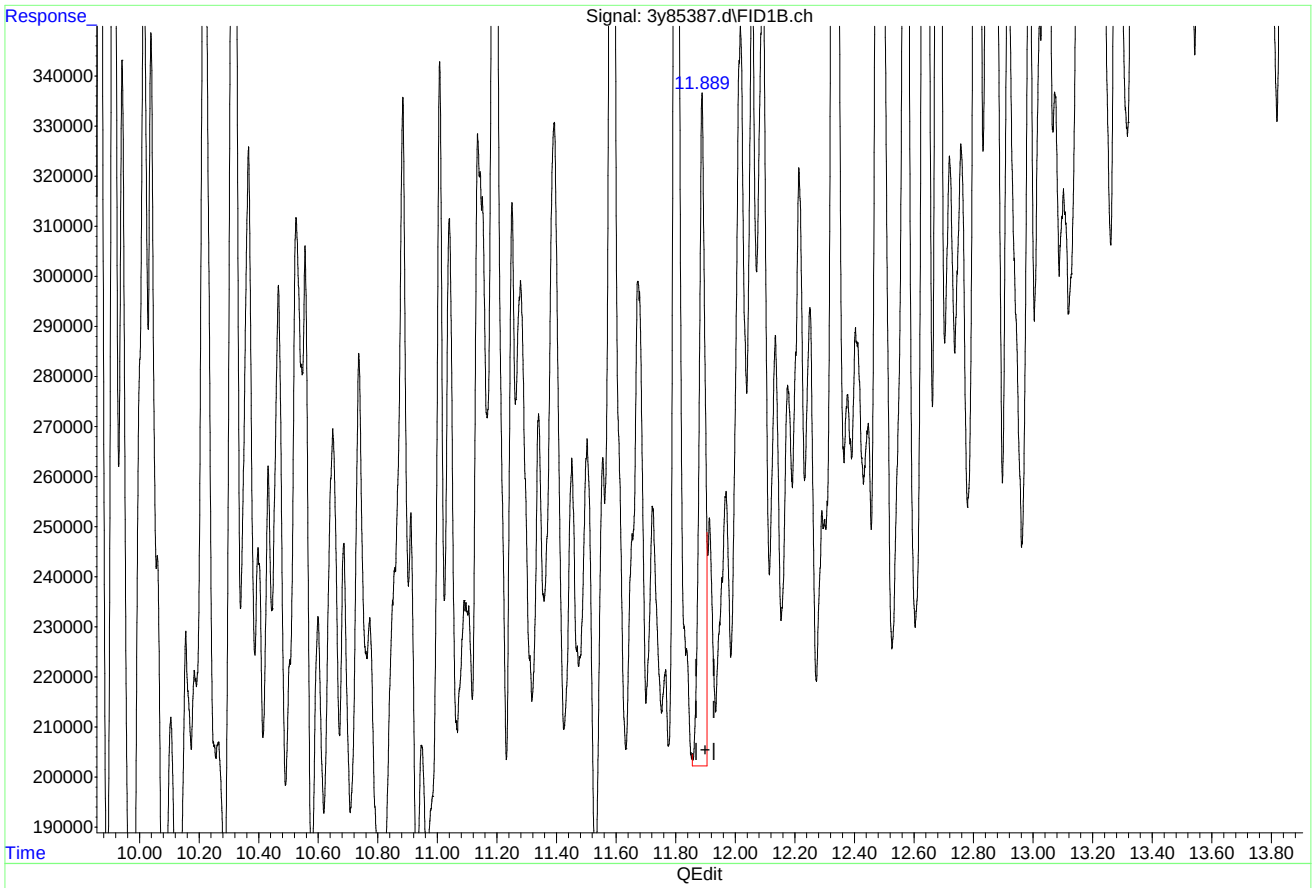
eph3y3347.m Fri Sep 30 14:57:49 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(10) Anthracene (T)

11.889min 2.826 ug/l m

response 1811071

(+) = Expected Retention Time

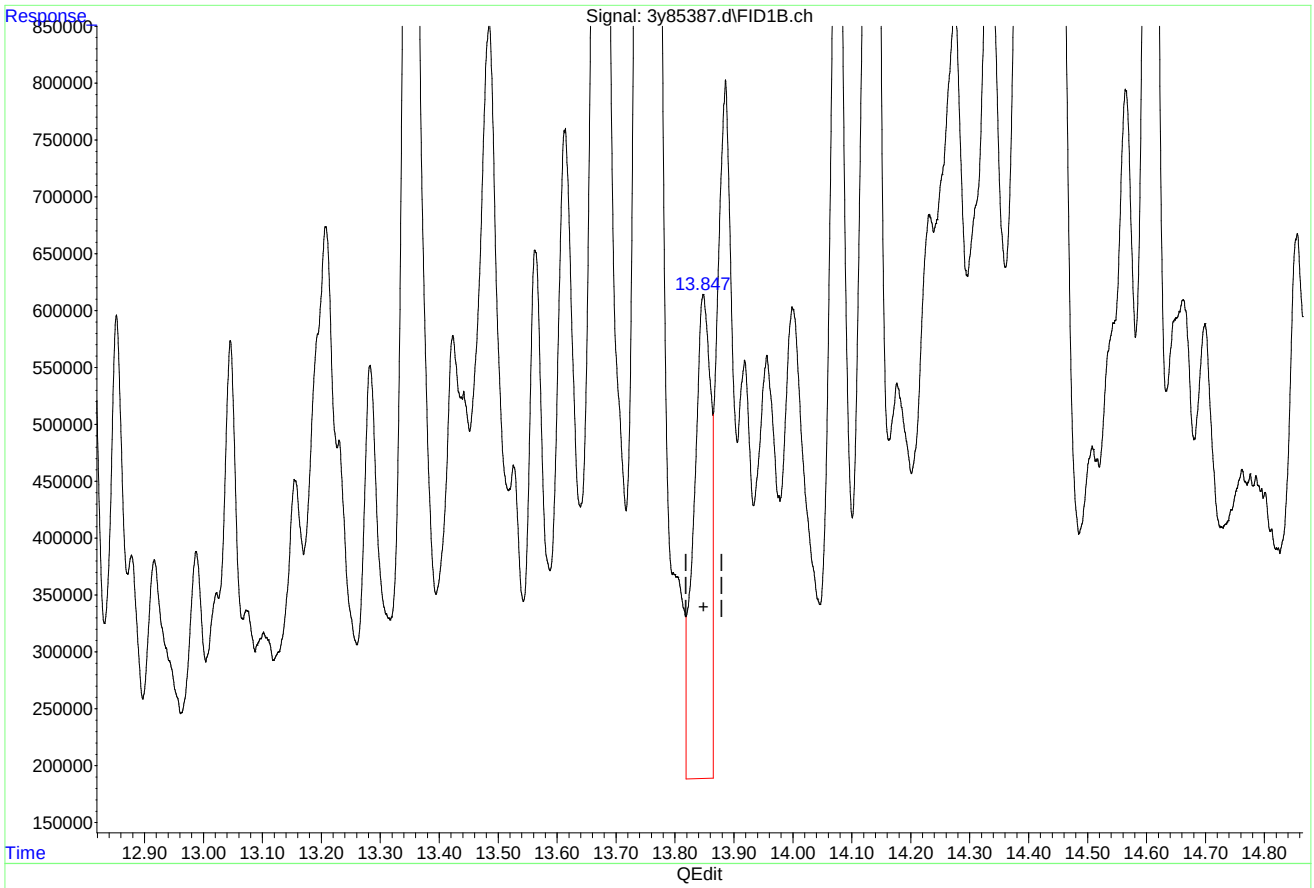
eph3y3347.m Fri Sep 30 14:57:56 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(11) Fluoranthene (T)

13.848min 13.545 ug/l

response 8449566

(+) = Expected Retention Time

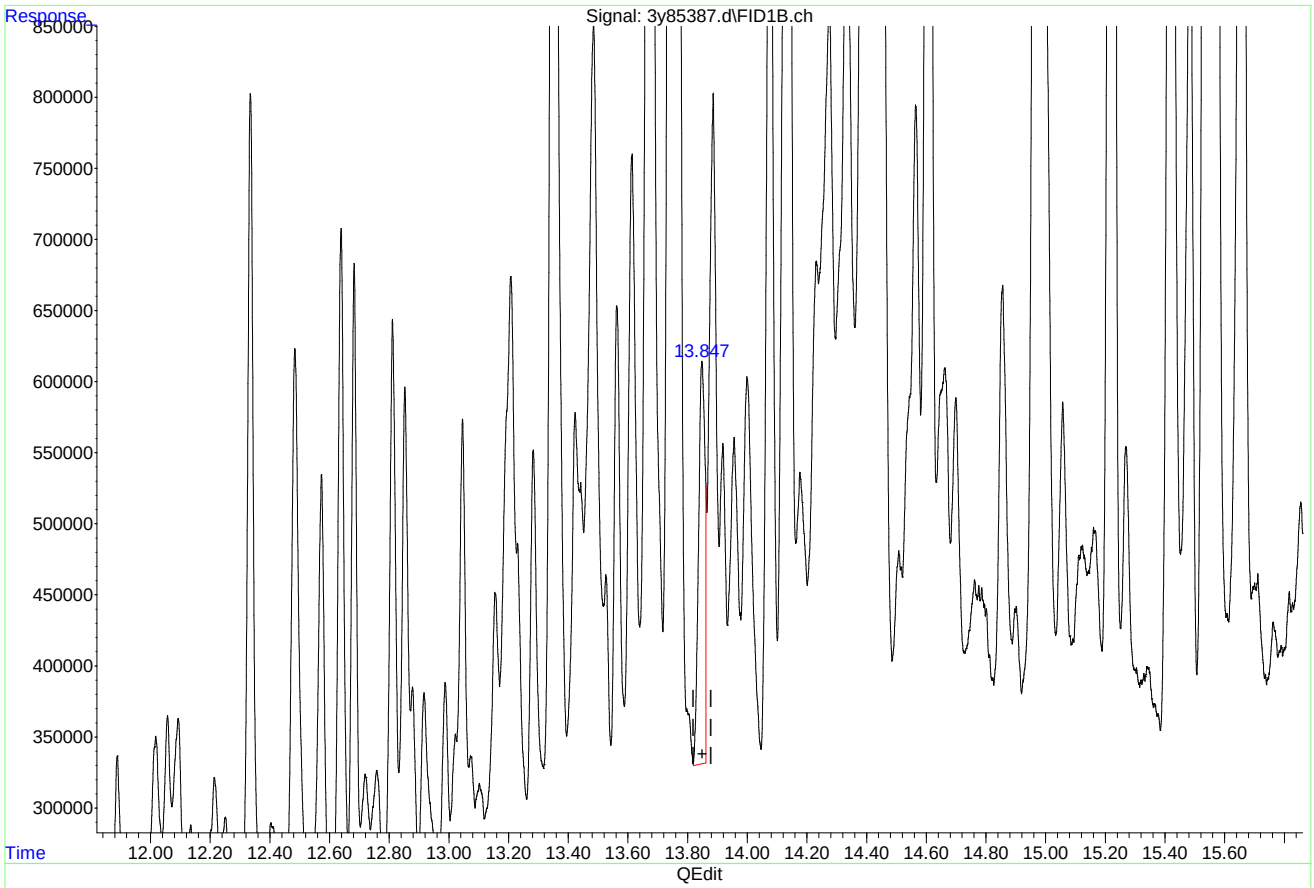
eph3y3347.m Fri Sep 30 14:57:59 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(11) Fluoranthene (T)

13.847min 6.671 ug/l m

response 4161605

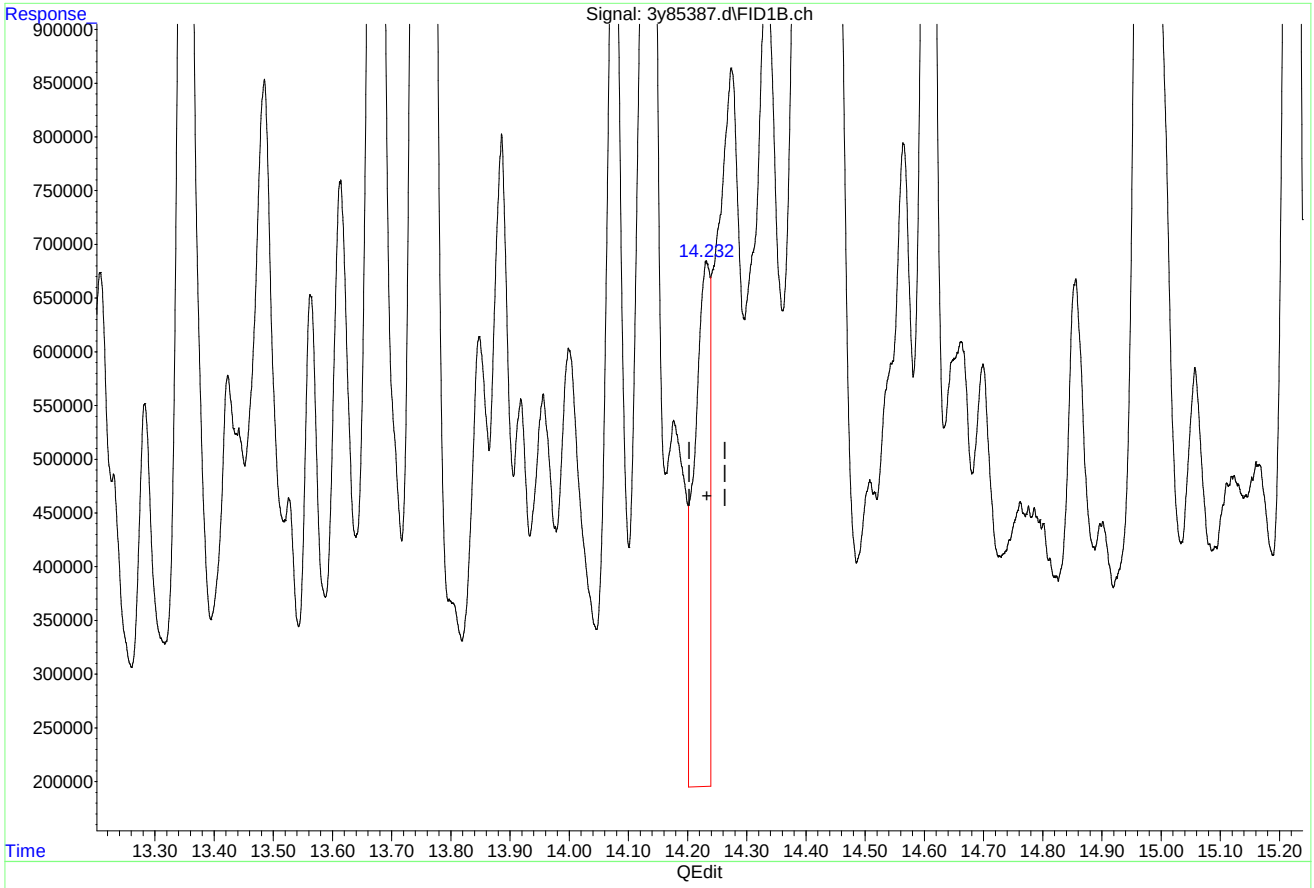
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.232min 13.851 ug/l

response 8866738

(+) = Expected Retention Time

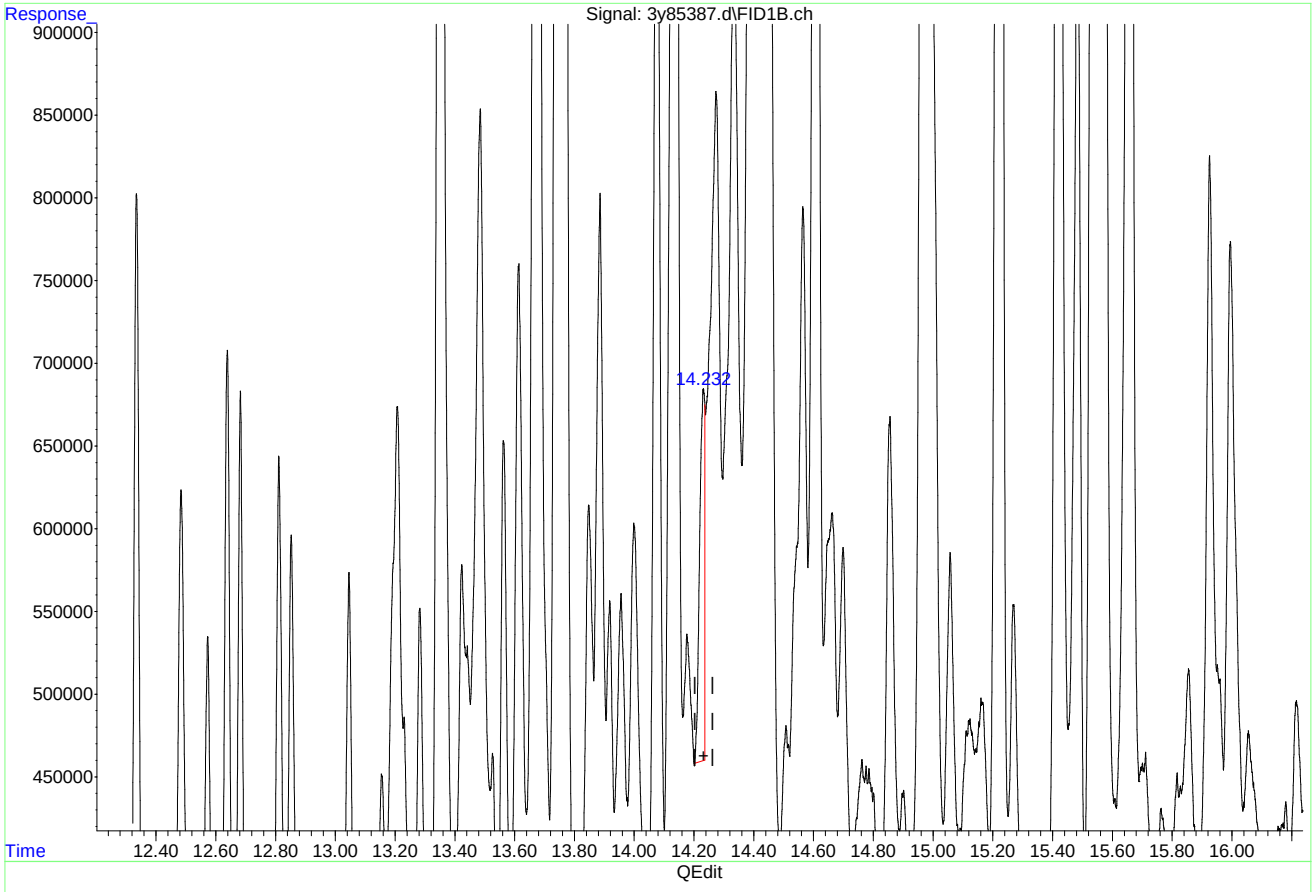
eph3y3347.m Fri Sep 30 14:58:08 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(12) Pyrene (T)

14.232min 4.033 ug/l m

response 2581550

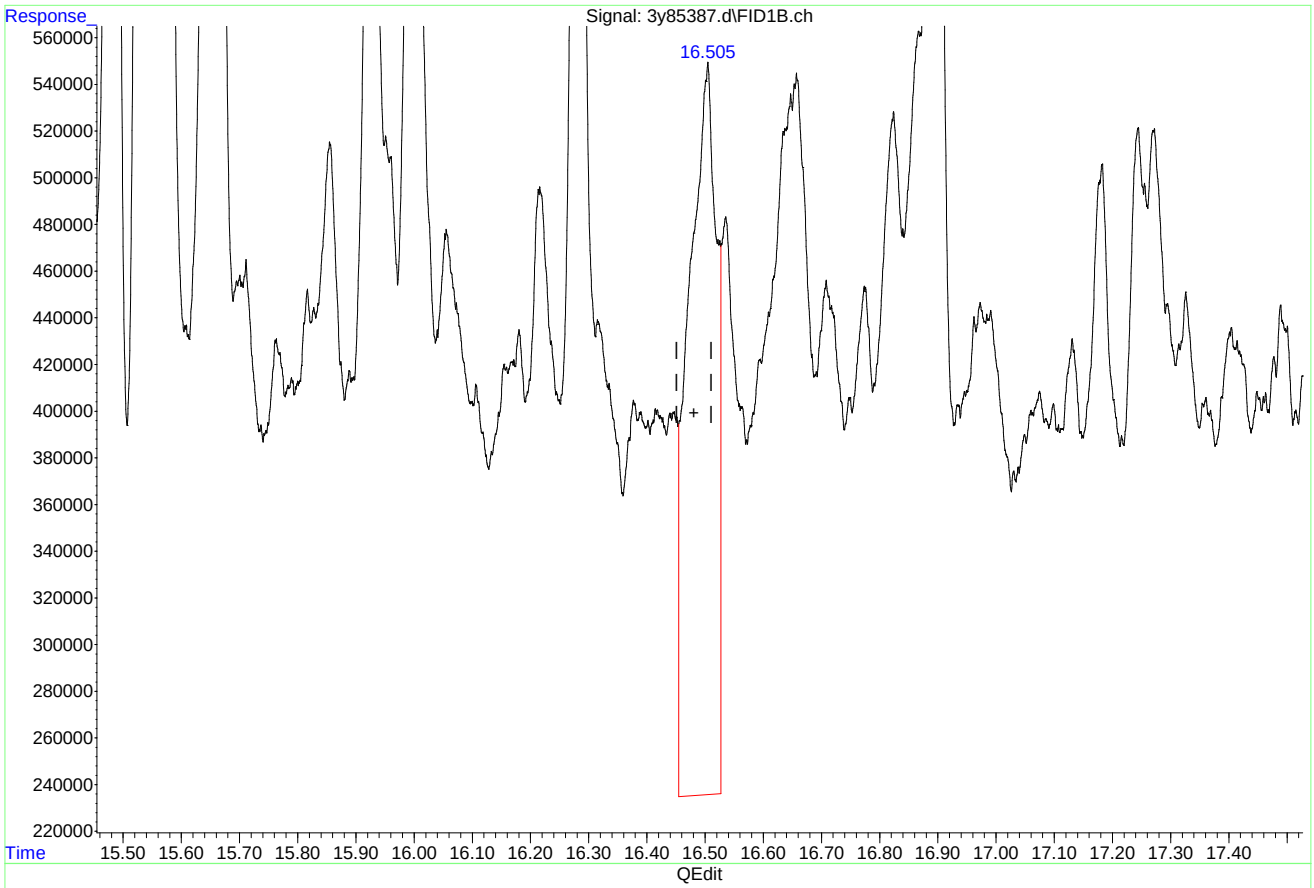
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(14) Benzo(a)Anthracene (T)

16.505min 16.983 ug/l

response 10519764

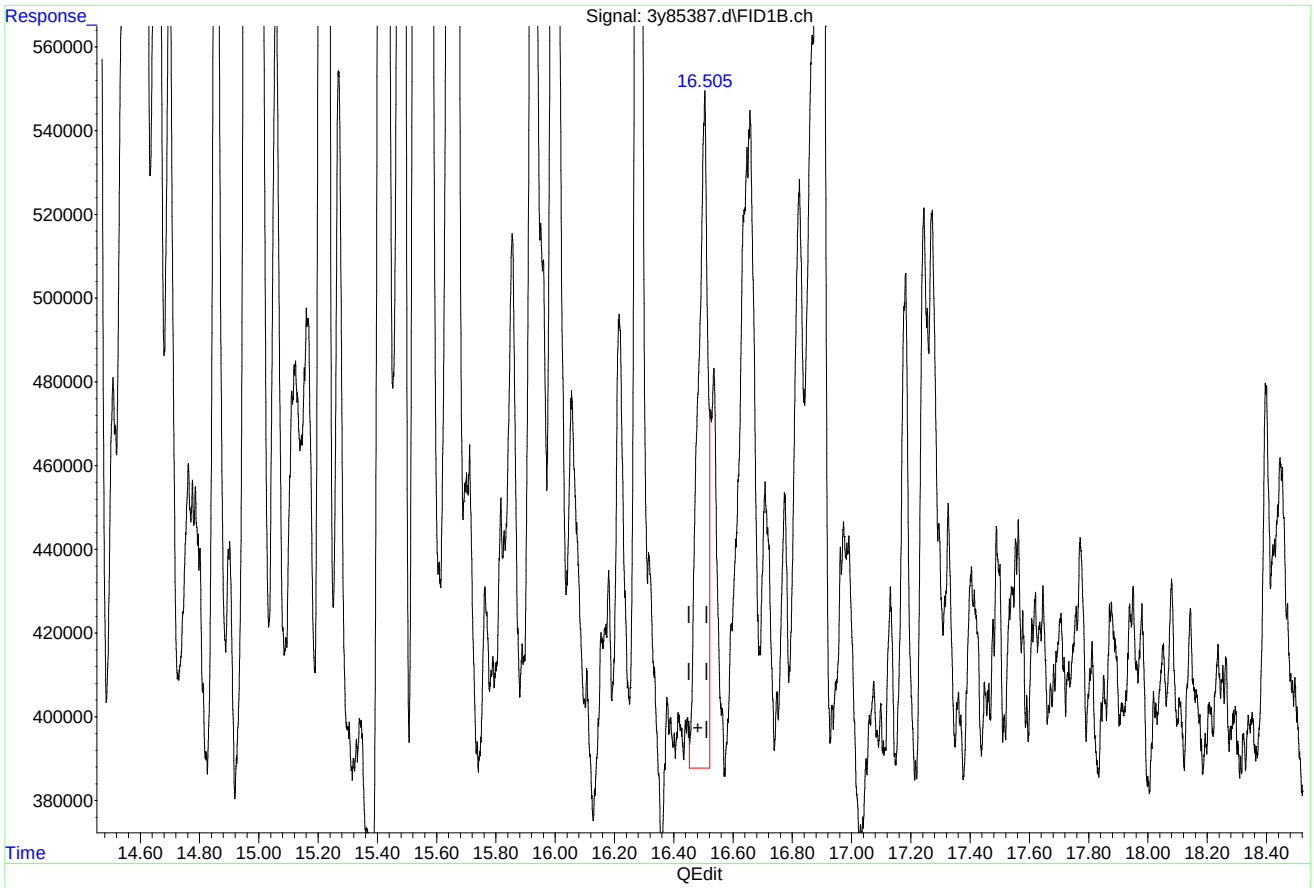
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(14) Benzo(a)Anthracene (T)

16.505min 5.882 ug/l m

response 3643676

(+) = Expected Retention Time

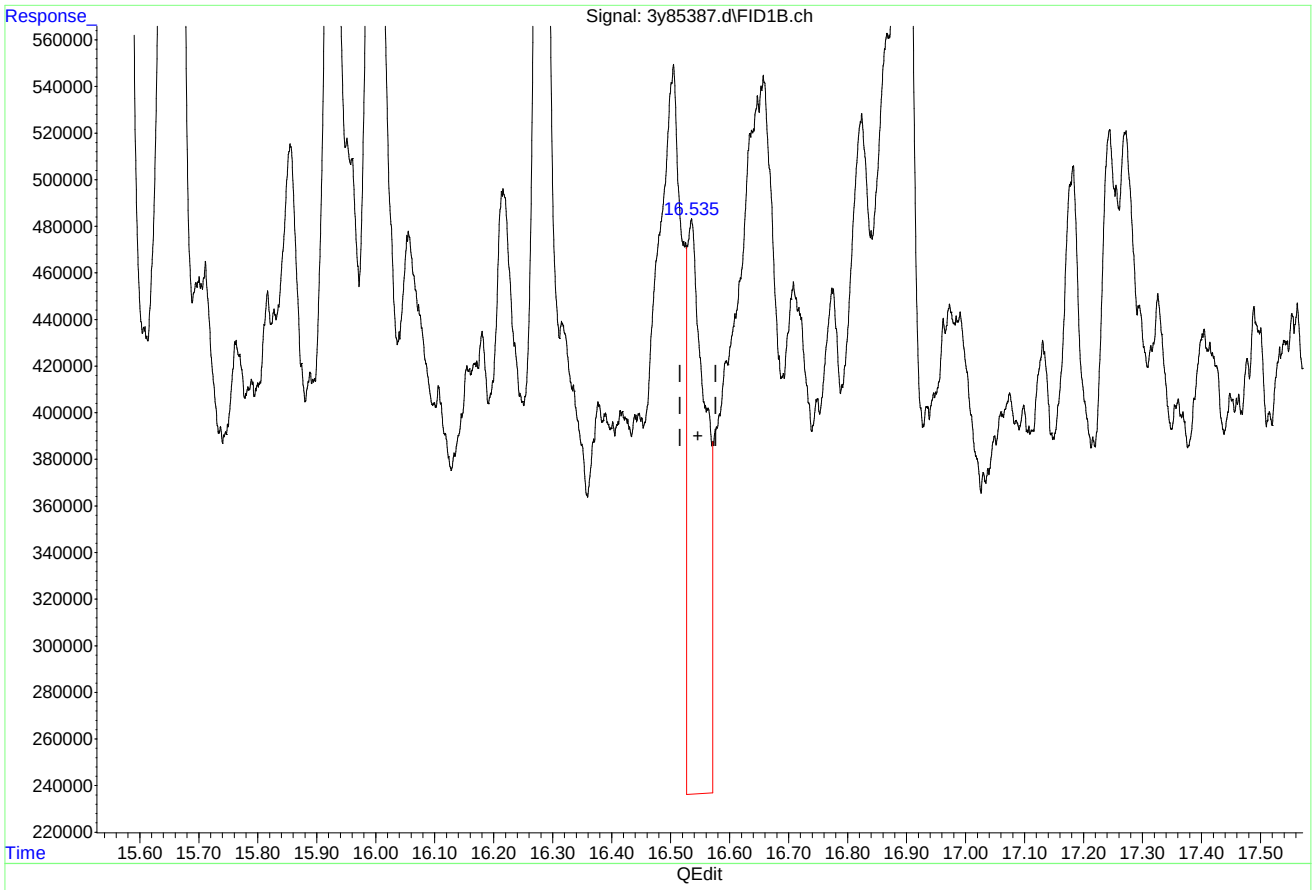
eph3y3347.m Fri Sep 30 14:58:26 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(15) Chrysene (T)

16.535min 8.530 ug/l

response 5267369

(+) = Expected Retention Time

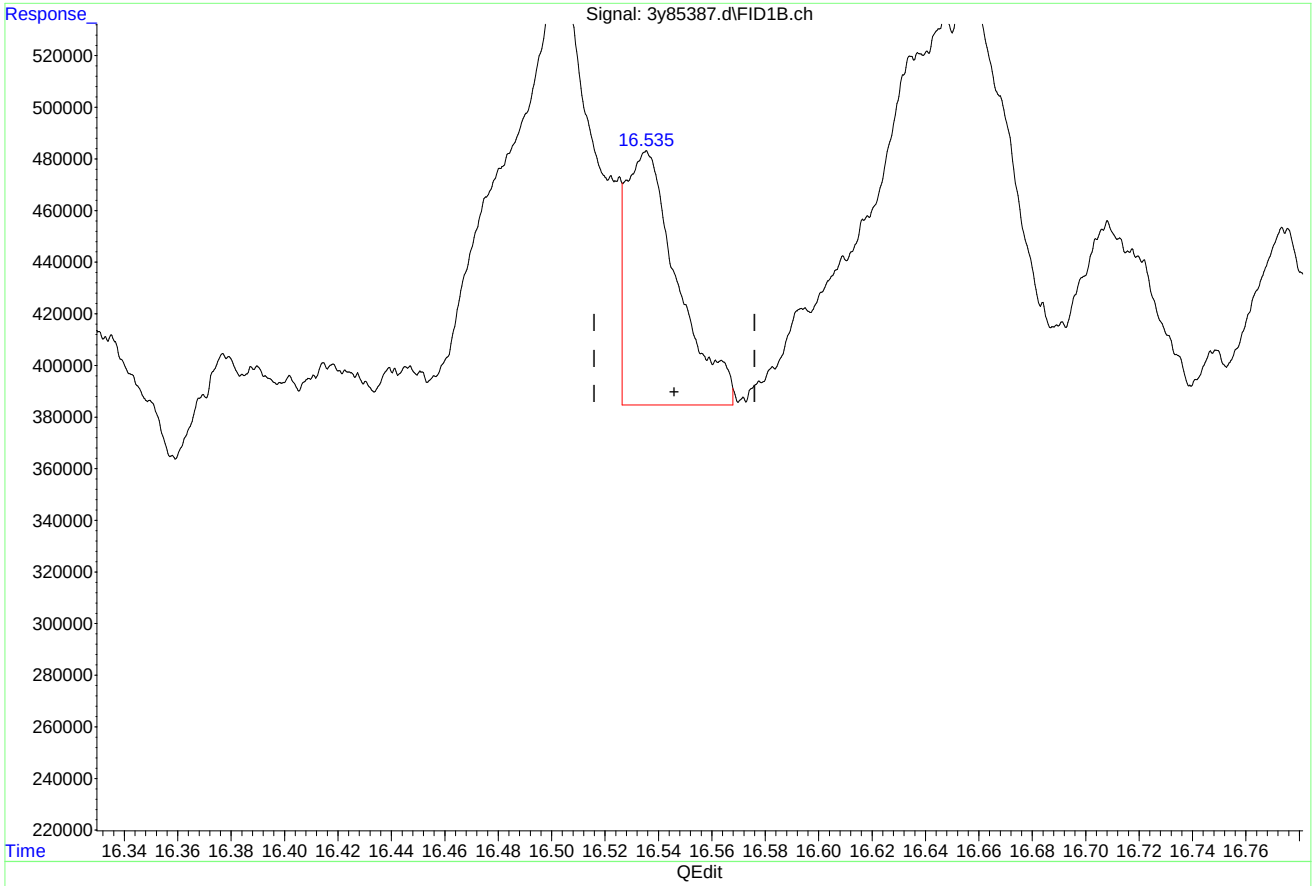
eph3y3347.m Fri Sep 30 14:58:28 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(15) Chrysene (T)

16.535min 2.124 ug/l m

response 1311600

(+) = Expected Retention Time

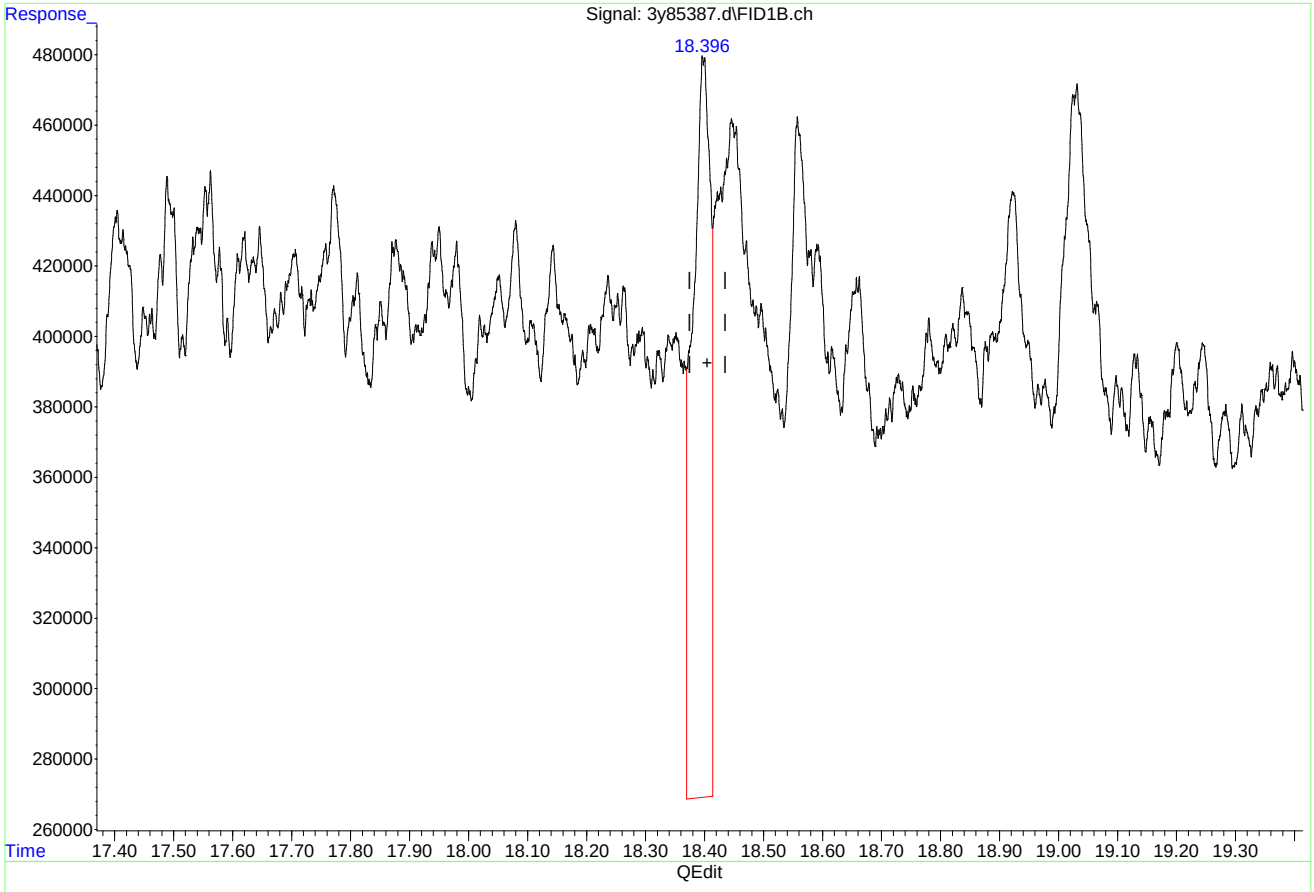
eph3y3347.m Fri Sep 30 14:58:36 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(16) Benzo(b)Fluoranthene (T)

18.397min 7.412 ug/l

response 4471331

(+) = Expected Retention Time

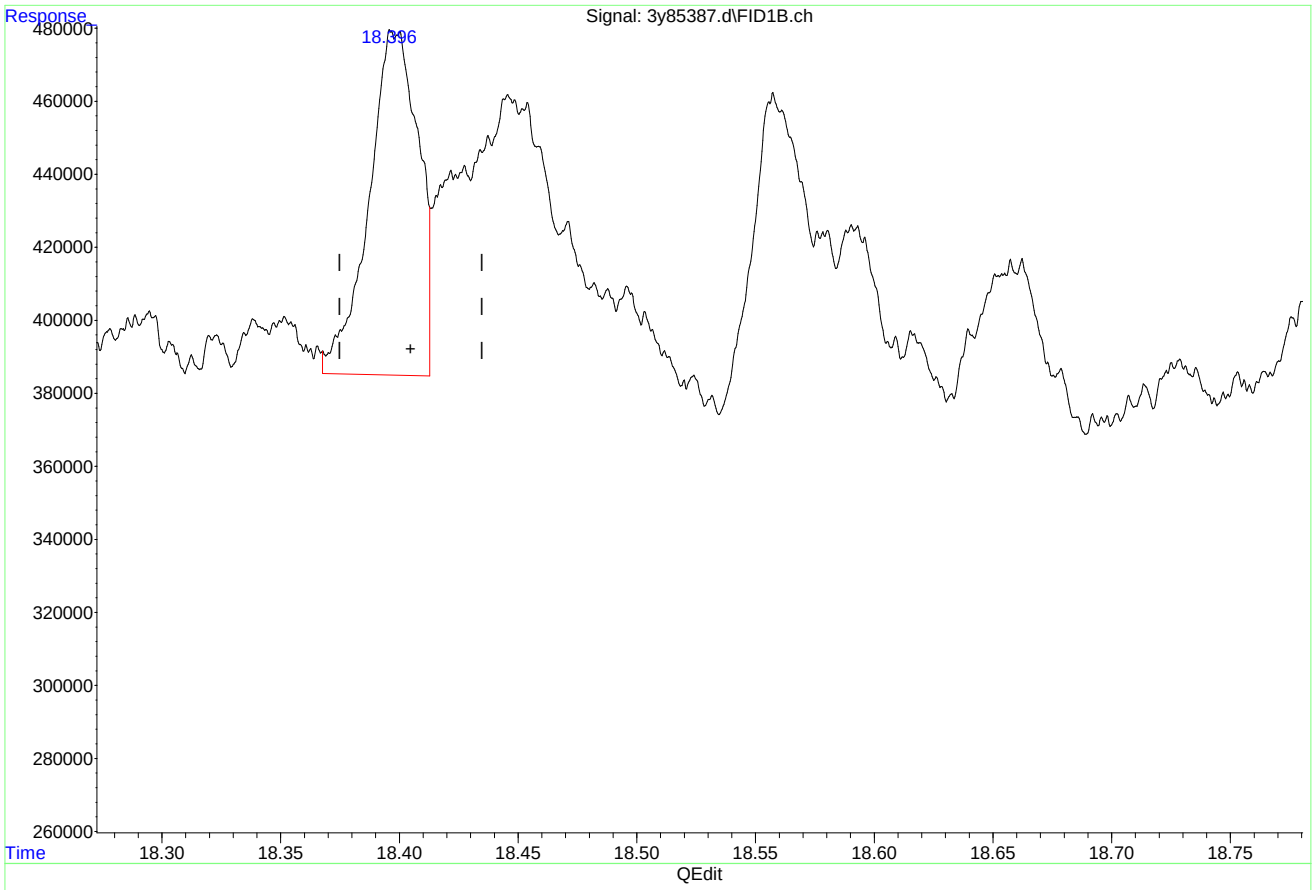
eph3y3347.m Fri Sep 30 14:58:39 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(16) Benzo(b)Fluoranthene (T)

18.396min 2.269 ug/l m

response 1368878

(+) = Expected Retention Time

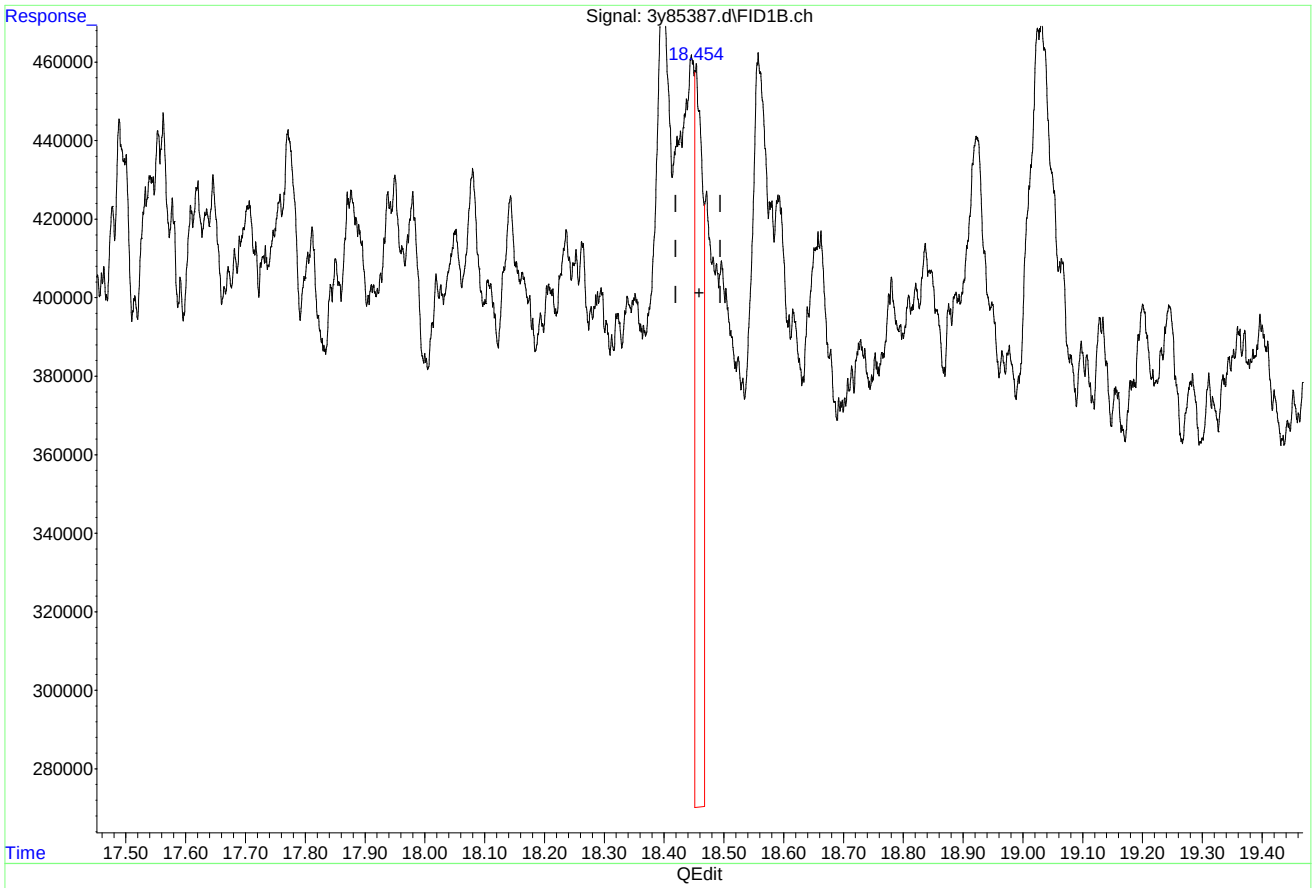
eph3y3347.m Fri Sep 30 14:58:44 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(17) Benzo(k)Fluoranthene (T)

18.454min 2.964 ug/l

response 1734344

(+) = Expected Retention Time

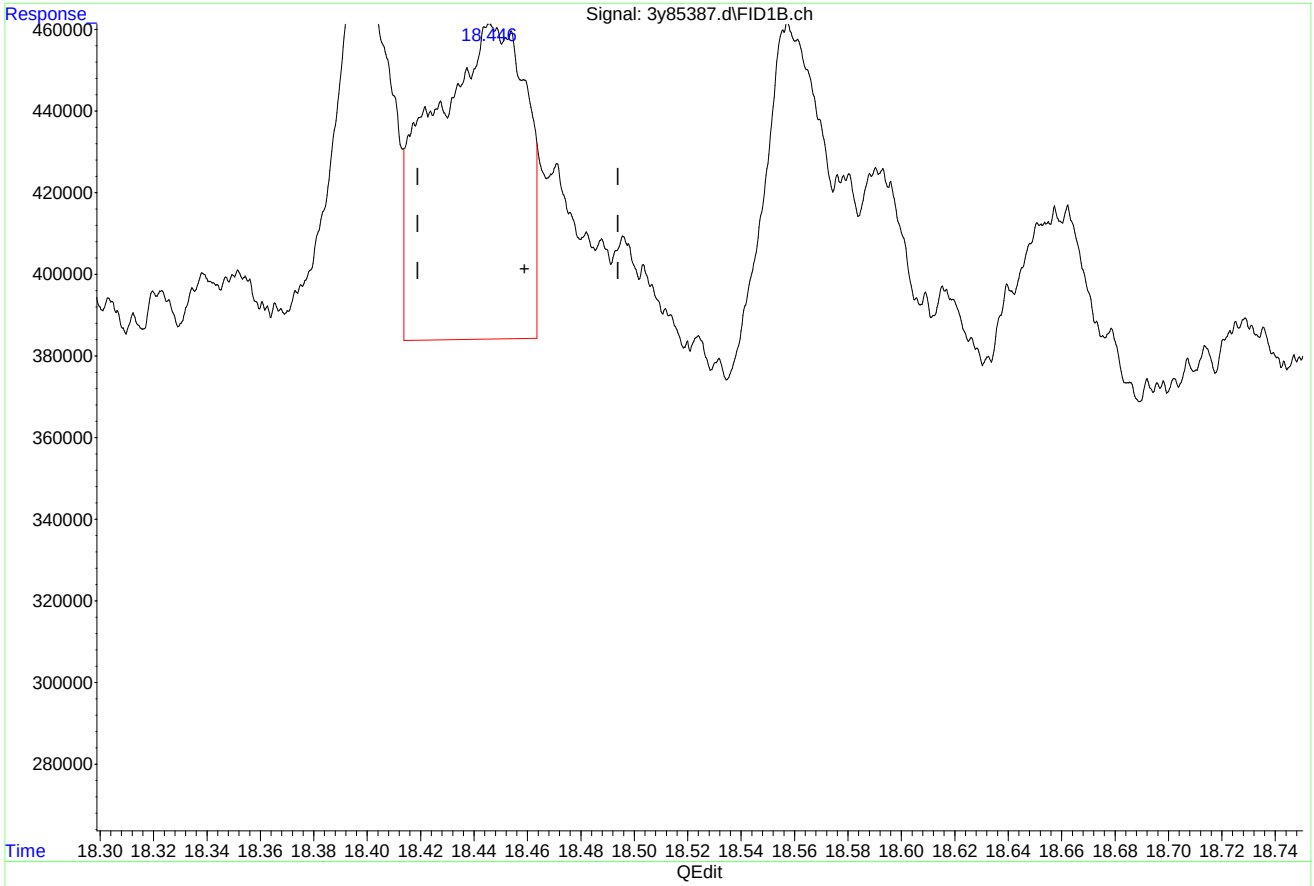
eph3y3347.m Fri Sep 30 14:58:47 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(17) Benzo(k)Fluoranthene (T)

18.446min 3.206 ug/l m

response 1875759

(+) = Expected Retention Time

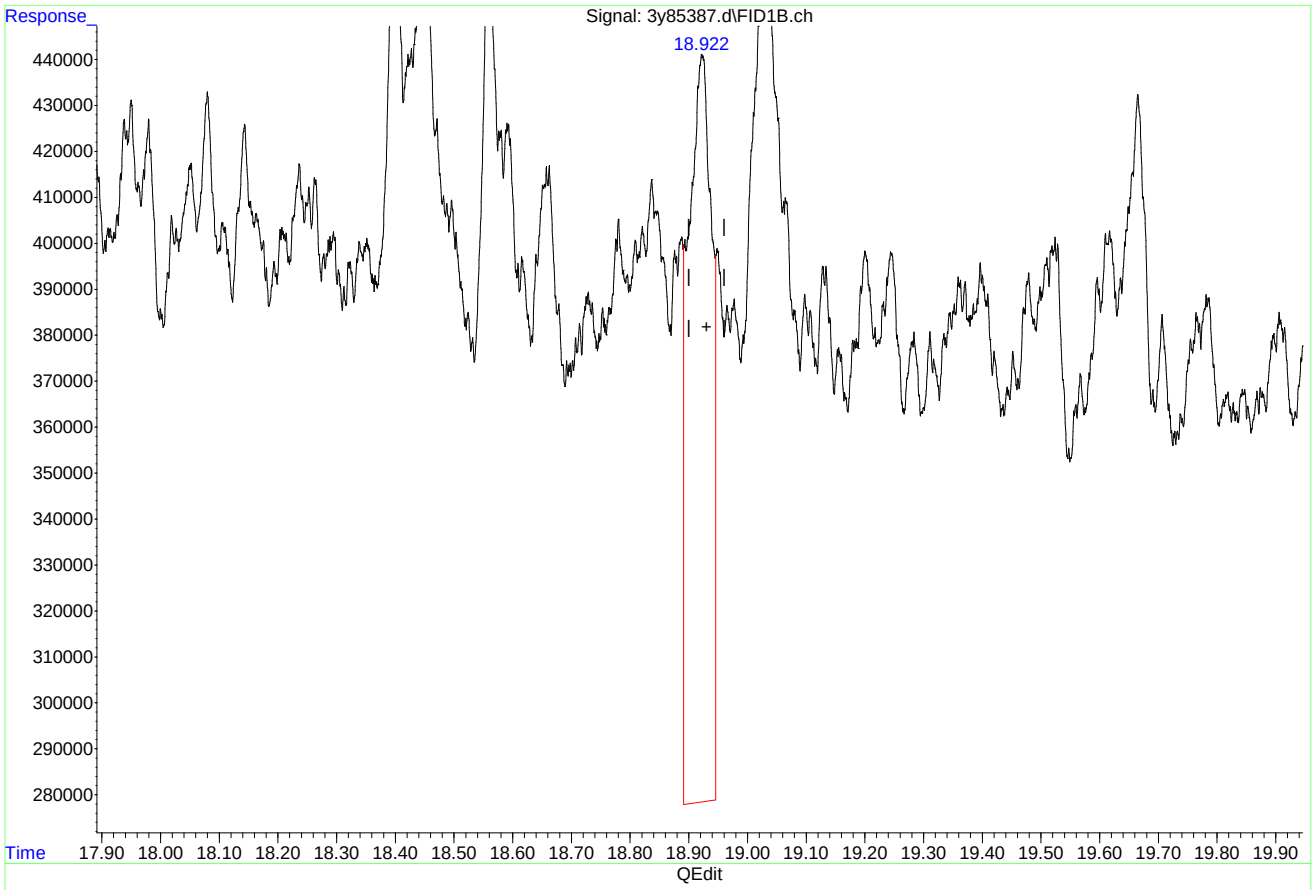
eph3y3347.m Fri Sep 30 14:58:54 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(18) Benzo(a)Pyrene (T)

18.922min 7.713 ug/l

response 4518928

(+) = Expected Retention Time

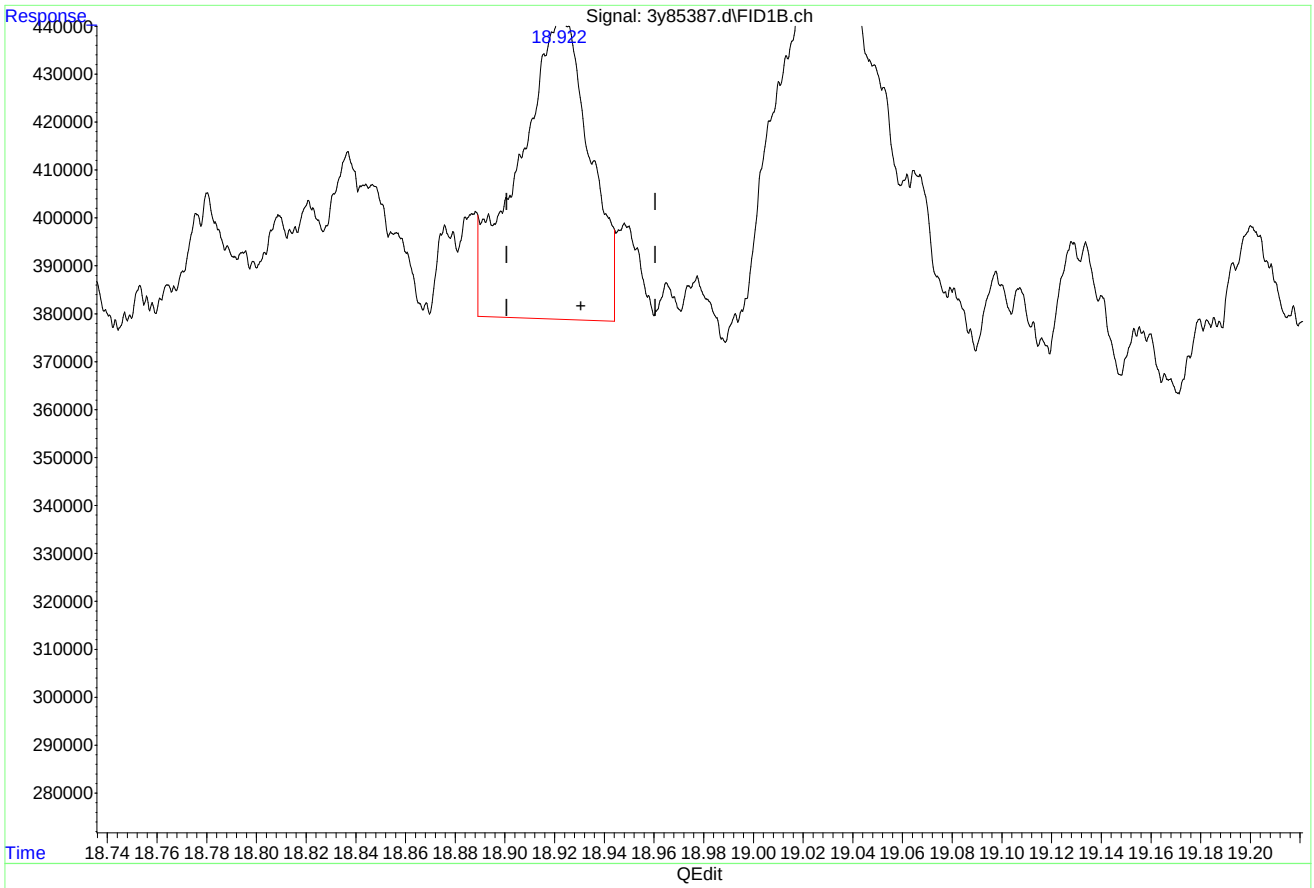
eph3y3347.m Fri Sep 30 14:58:57 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(18) Benzo(a)Pyrene (T)

18.922min 2.111 ug/l m

response 1236709

(+) = Expected Retention Time

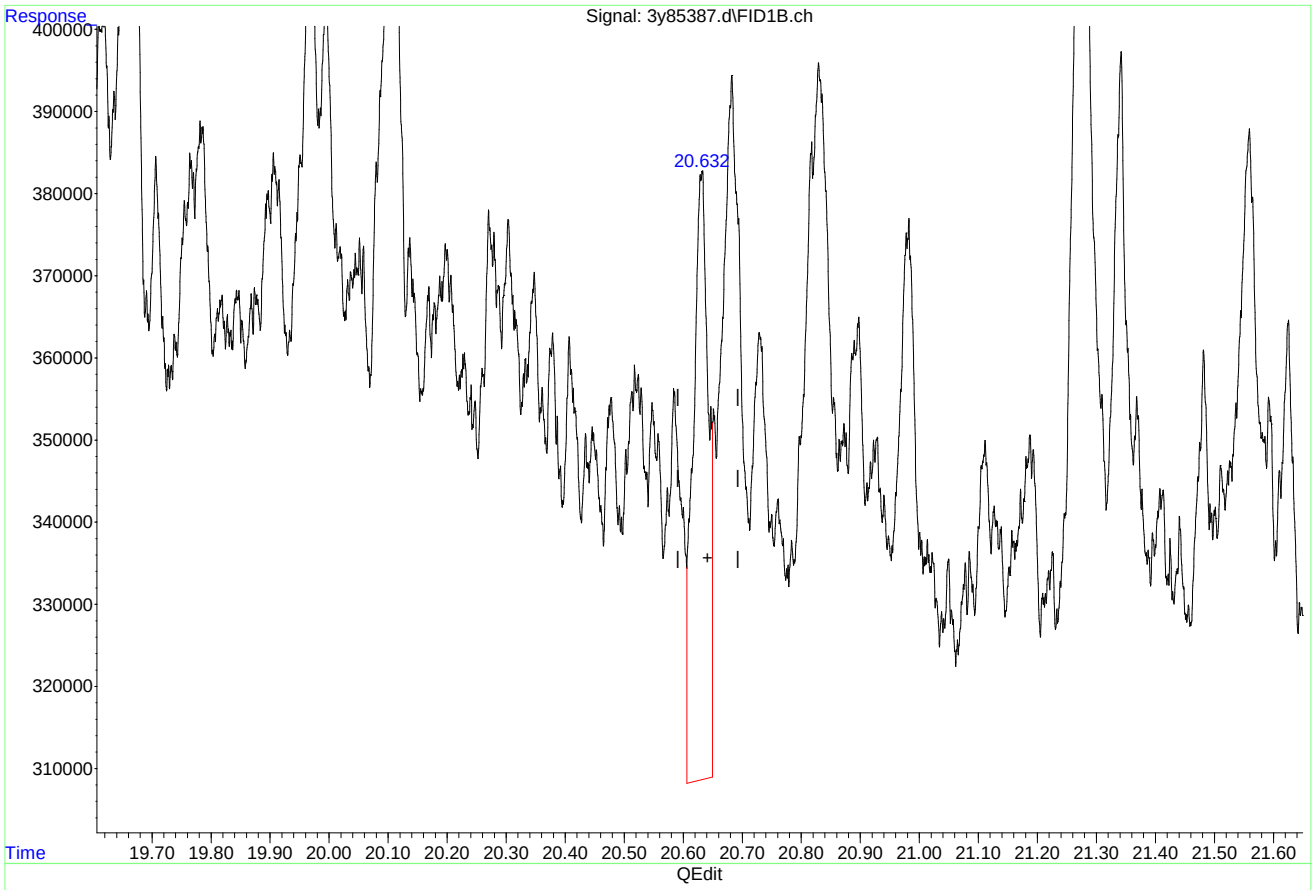
eph3y3347.m Fri Sep 30 14:59:03 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(19) Indeno(1,2,3-cd)Pyrene (T)

20.632min 2.302 ug/l

response 1334529

(+) = Expected Retention Time

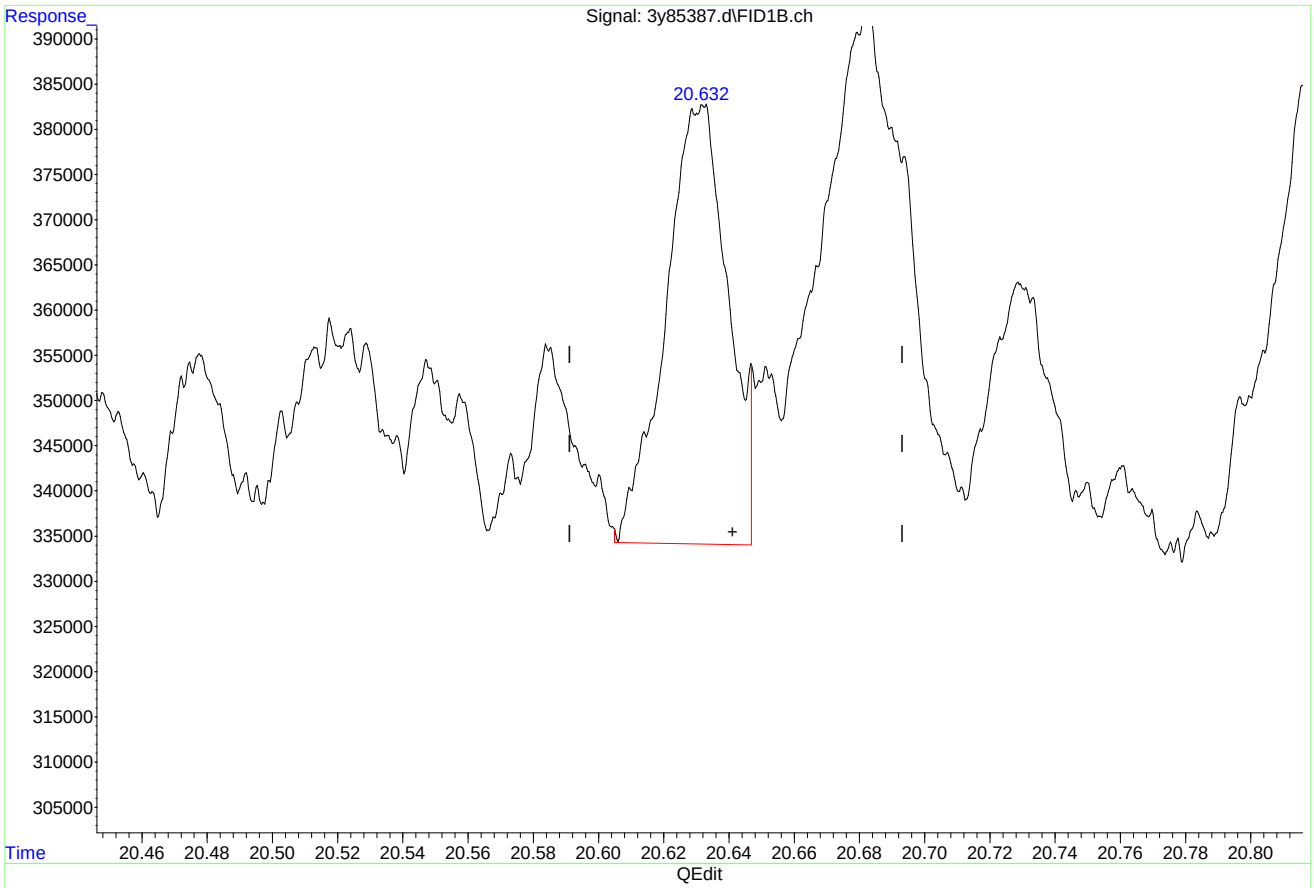
eph3y3347.m Fri Sep 30 14:59:07 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 28 Sep 2022   6:03 pm
Operator  : thomasl
Sample    : op41903-msd
Misc      : op41903,g3y3349,15.5,,,2,1
ALS Vial  : 30   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(19) Indeno(1,2,3-cd)Pyrene (T)

20.631min 1.109 ug/l m

response 643135

(+) = Expected Retention Time

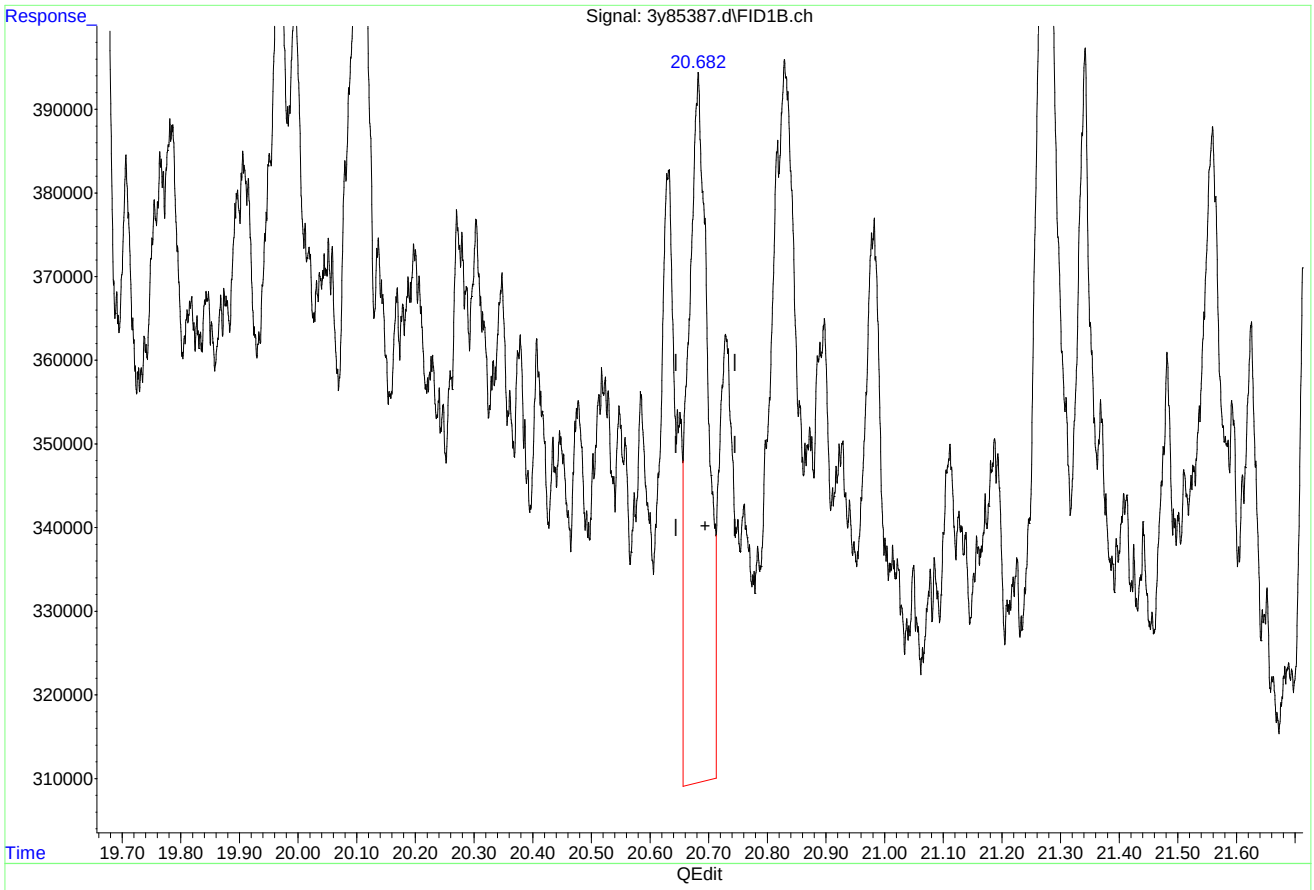
eph3y3347.m Fri Sep 30 14:59:13 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(20) Dibenzo(ah)Anthracene (T)

20.683min 3.111 ug/l

response 1943994

(+) = Expected Retention Time

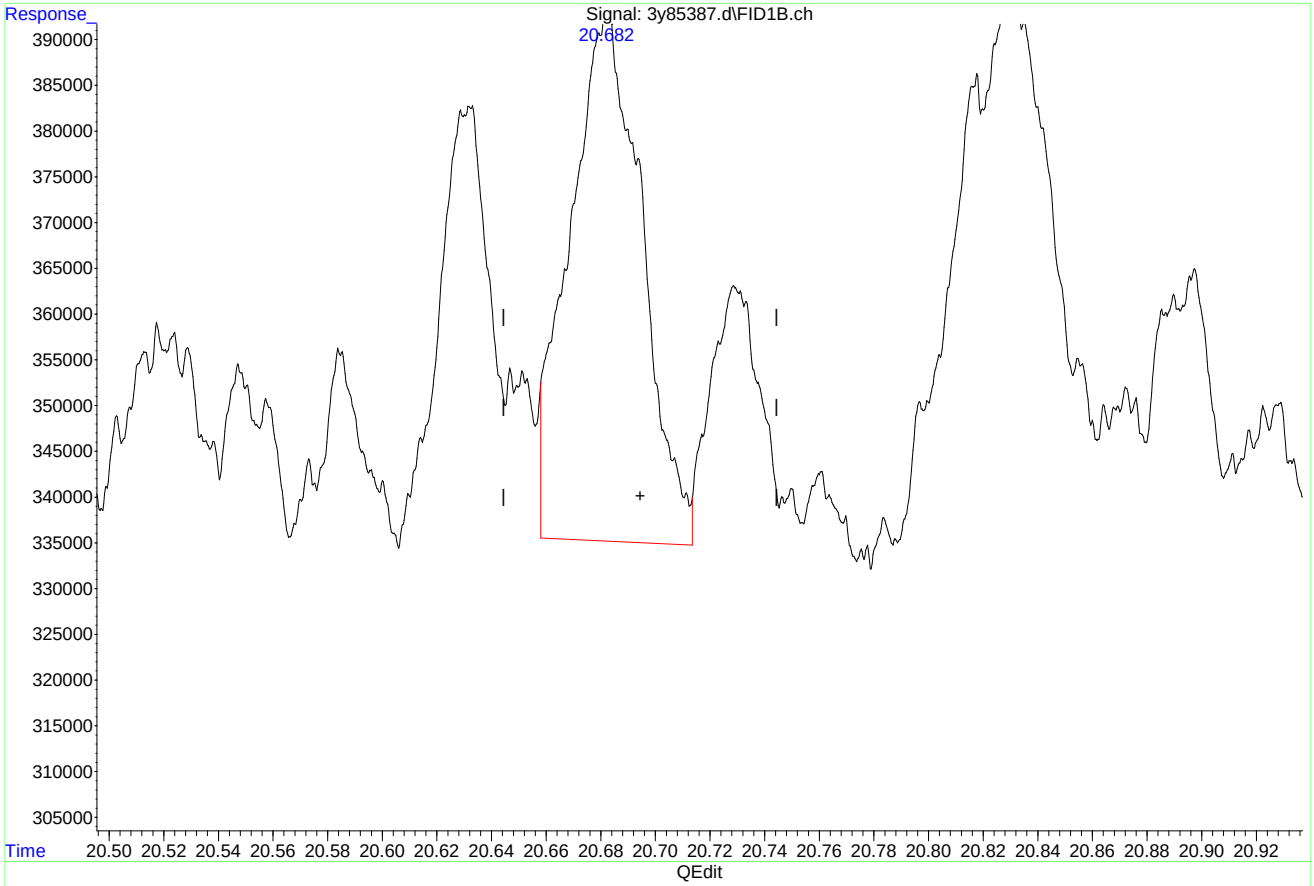
eph3y3347.m Fri Sep 30 14:59:16 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 28 Sep 2022   6:03 pm
Operator  : thomasl
Sample    : op41903-msd
Misc      : op41903,g3y3349,15.5,,,2,1
ALS Vial  : 30   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(20) Dibenzo(ah)Anthracene (T)

20.682min 1.704 ug/l m

response 1064593

(+) = Expected Retention Time

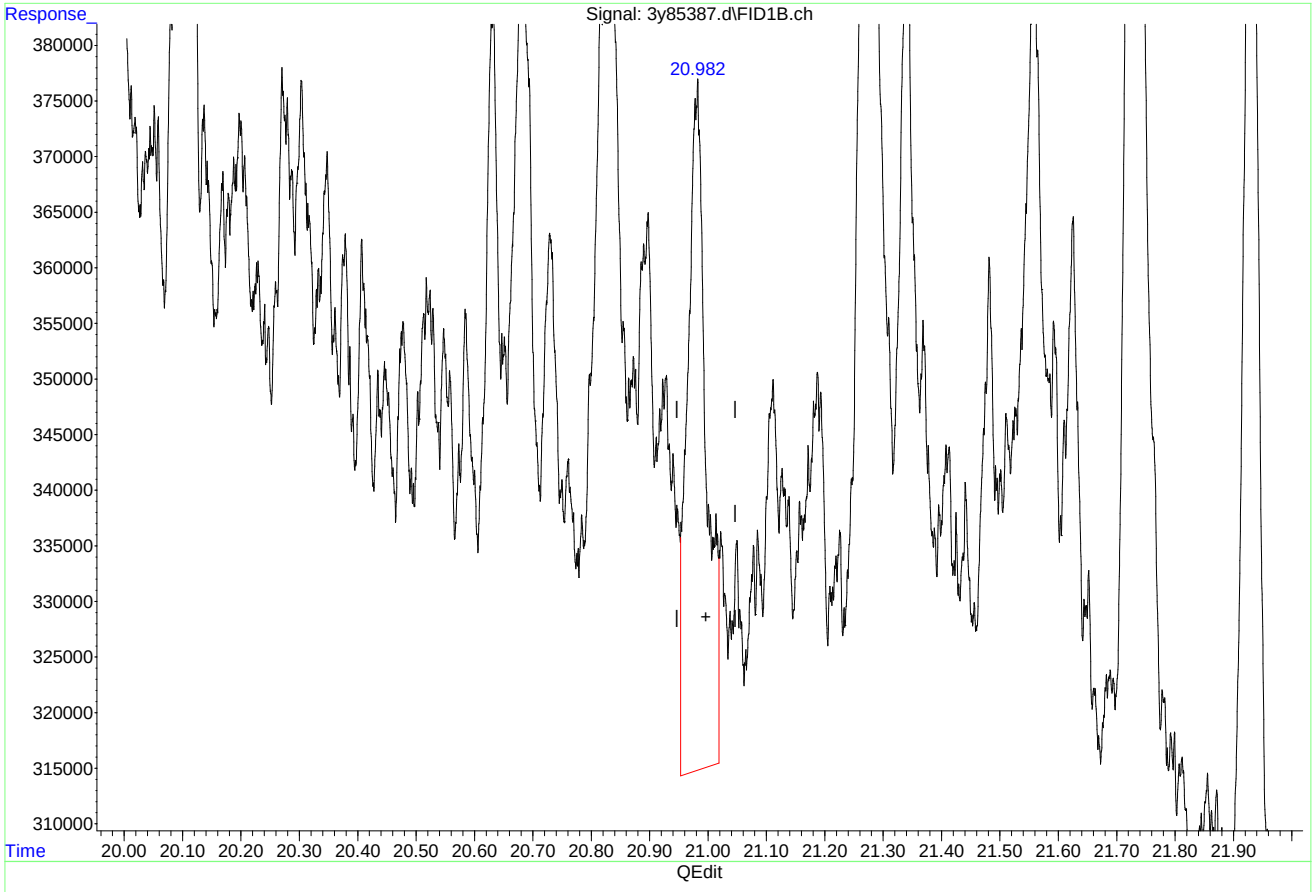
eph3y3347.m Fri Sep 30 14:59:22 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(21) Benzo(ghi)Perylene (T)

20.982min 2.409 ug/l

response 1394676

(+) = Expected Retention Time

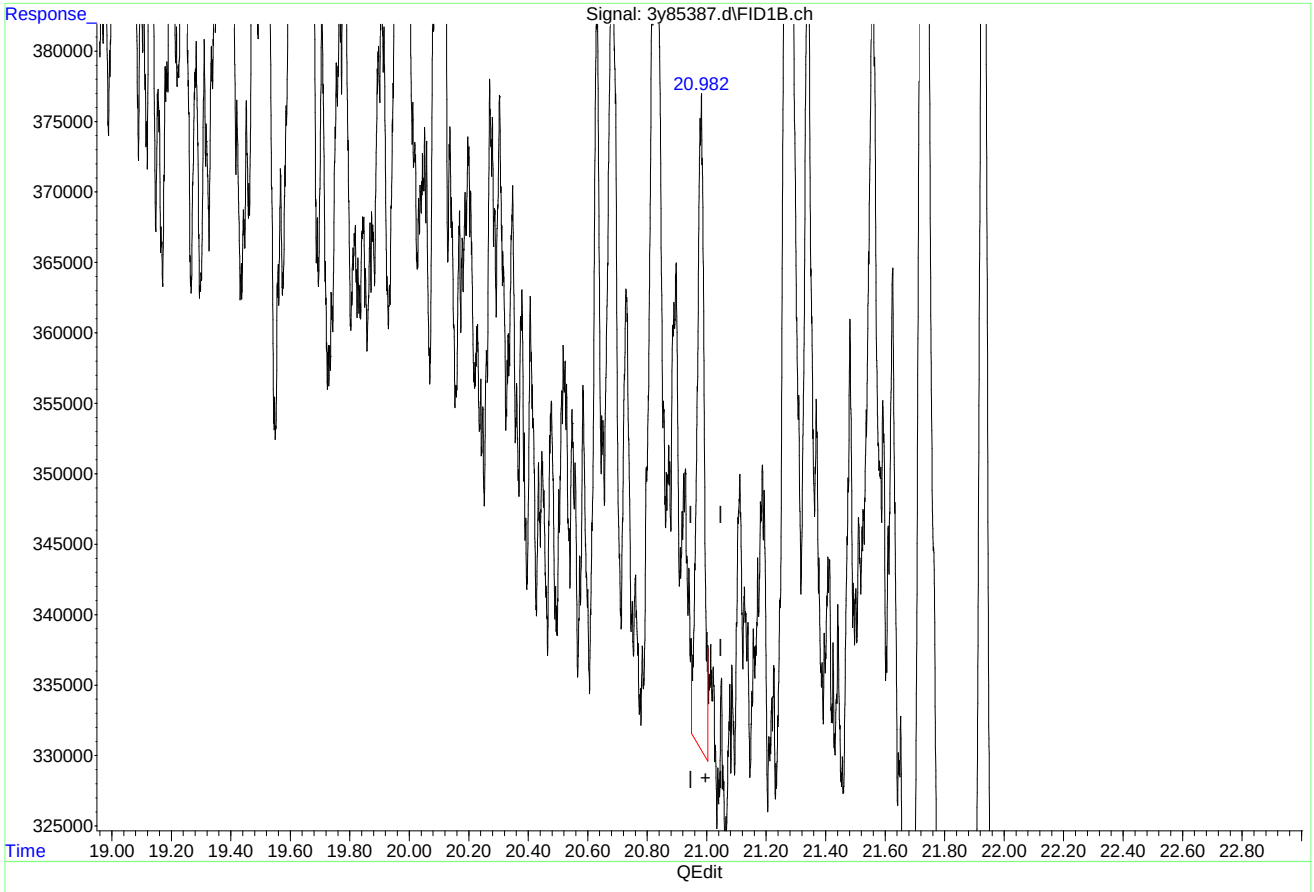
eph3y3347.m Fri Sep 30 14:59:24 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(21) Benzo(ghi)Perylene (T)

20.982min 1.280 ug/l m

response 741052

(+) = Expected Retention Time

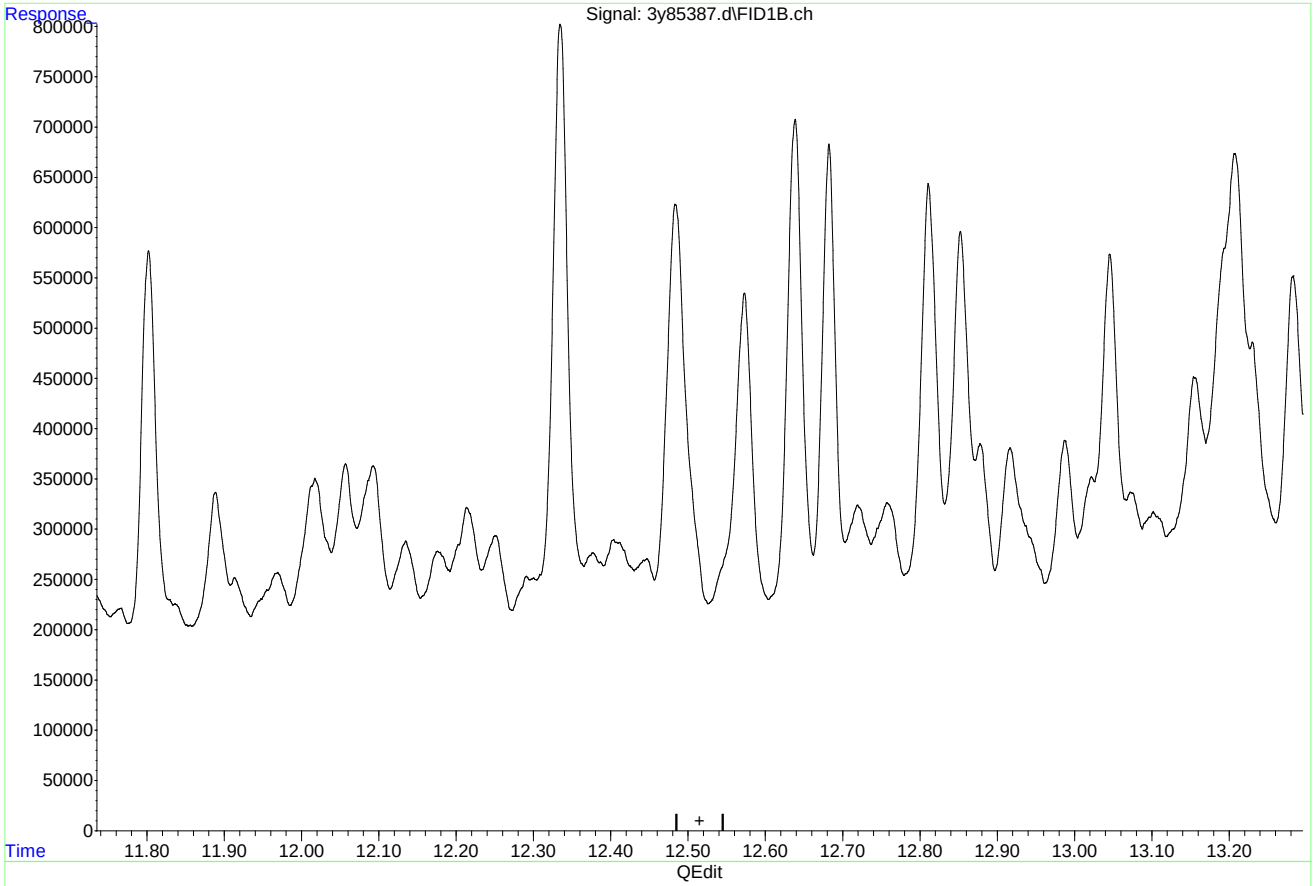
eph3y3347.m Fri Sep 30 14:59:31 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 28 Sep 2022   6:03 pm
Operator  : thomasl
Sample    : op41903-msd
Misc      : op41903,g3y3349,15.5,,,2,1
ALS Vial  : 30   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um
```



(26) o-Terphenyl (S) (S)

12.515min 0.000 ug/L

response 0

(+) = Expected Retention Time

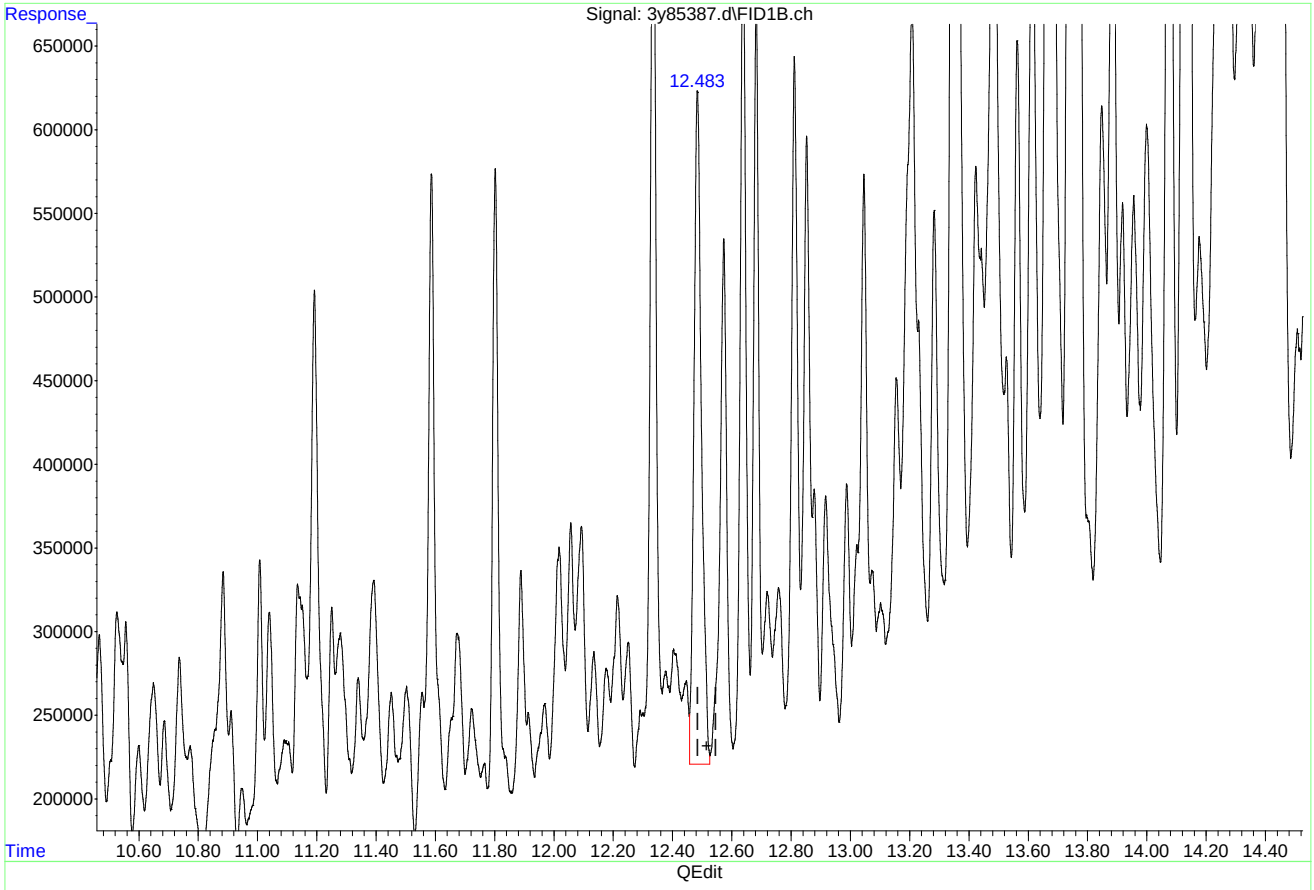
eph3y3347.m Fri Sep 30 14:59:49 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(26) o-Terphenyl (S) (S)

12.483min 11.094 ug/L m

response 7072785

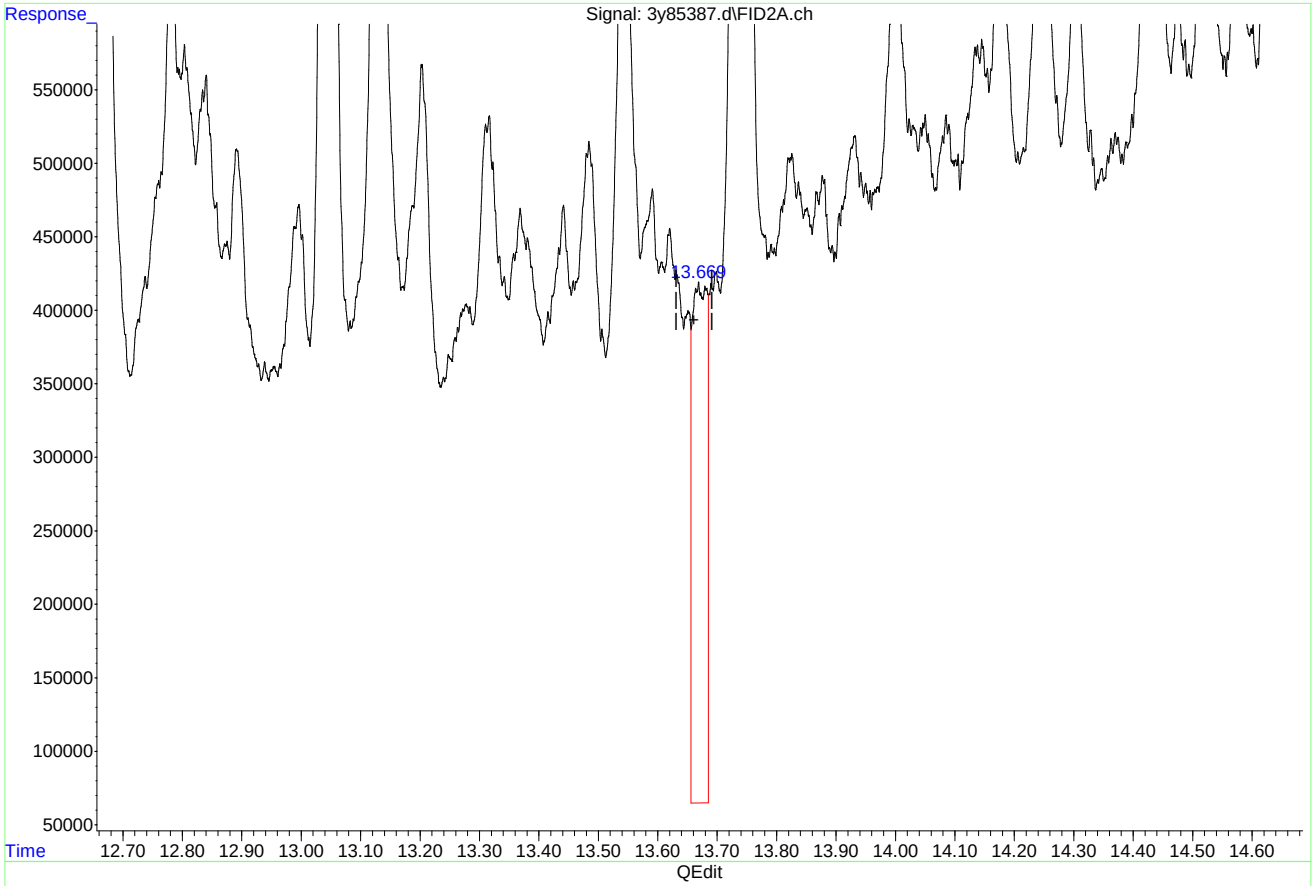
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 6:03 pm
Operator : thomasl
Sample : op41903-msd
Misc : op41903,g3y3349,15.5,,,2,1
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(55) 1-Chlorooctadecane (S) (S)

13.668min 11.572 ug/L

response 6090013

(+) = Expected Retention Time

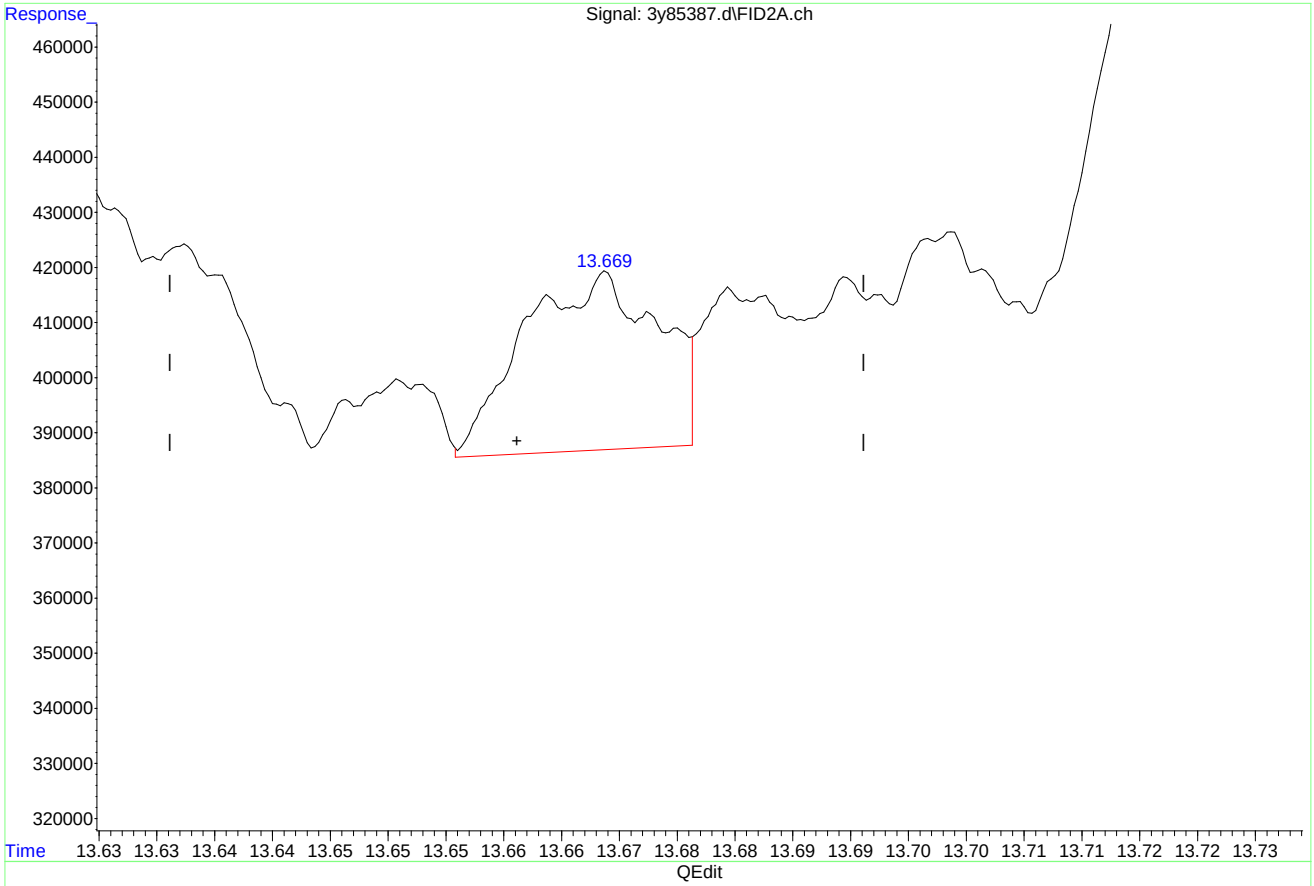
eph3y3347.m Fri Sep 30 15:00:47 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85387.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 28 Sep 2022   6:03 pm
Operator  : thomasl
Sample    : op41903-msd
Misc      : op41903,g3y3349,15.5,,,2,1
ALS Vial  : 30   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:29 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.      : 1ul/col
Signal #1 Phase  : HP5                Signal #2 Phase: HP5
Signal #1 Info   : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(55) 1-Chlorooctadecane (S) (S)

13.669min 0.489 ug/L m

response 257405

(+) = Expected Retention Time

eph3y3347.m Fri Sep 30 15:00:58 2022

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85349.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 4:44 pm
Operator : thomasl
Sample : ic3347-1
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:11:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
24) S	2-Fluorobiphenyl (S)	8.234	566679	1.184 ug/L
25) S	2-Bromonaphthalene (S)	9.283	392895	1.152 ug/L
26) S	o-Terphenyl (S)	12.510	636890	1.154 ug/L
53) S	Naphthalene (S)	6.236	232409	0.420 ug/L
54) S	2-Methylnaphthalene (S)	7.364	237742	0.440 ug/L
55) S	1-Chlorooctadecane (S)	13.657	403923	0.916 ug/L
Target Compounds				
1) T	1,2,3-Trimethylbenzene	4.632	614611	1.160 ug/l
2) T	Naphthalene	6.460	643110	1.156 ug/L
4) T	2-Methylnaphthalene	7.589	644427	1.205 ug/L
5) T	Acenaphthylene	9.048	677332	1.226 ug/l
6) T	Acenaphthene	9.343	685620	1.090 ug/l
8) T	Fluorene	10.213	654116	1.171 ug/l
9) T	Phenanthrene	11.805	639564	1.168 ug/l
10) T	Anthracene	11.892	634142	1.143 ug/l
11) T	Fluoranthene	13.843	625524	1.176 ug/l
12) T	Pyrene	14.227	644516	1.187 ug/l
14) T	Benzo(a)Anthracene	16.472	649261	1.321 ug/l
15) T	Chrysene	16.534	628798	1.222 ug/l
16) T	Benzo(b)Fluoranthene	18.394	609965	1.246 ug/l
17) T	Benzo(k)Fluoranthene	18.443	598038	1.213 ug/l
18) T	Benzo(a)Pyrene	18.920	589642	1.241 ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.628	569358	1.223 ug/l
20) T	Dibenzo(ah)Anthracene	20.680	628025	1.291 ug/l
21) T	Benzo(ghi)Perylene	20.975	574797	1.249 ug/l
28) T	C9	3.047	440037	0.881 ug/L
29) T	C10	4.151	452660	0.895 ug/L
30) T	C12	6.324	467924	0.915 ug/L
32) T	C14	8.280	471551	0.916 ug/L
33) T	C16	10.027	483581	0.938 ug/L
35) T	C18	11.602	486958	0.942 ug/L
36) T	C19	12.334	487914	0.930 ug/L
37) T	C20	13.042	485225	0.944 ug/L
38) T	C21	13.739	481496	0.943 ug/L
40) T	C22	14.427	491689	0.955 ug/L
41) T	C24	15.757	465576	0.932 ug/L
42) T	C26	17.021	459721	0.926 ug/L
43) T	C28	18.213	425307	0.891 ug/L
44) T	C30	19.333	411202	0.878 ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85349.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 4:44 pm
Operator : thomasl
Sample : ic3347-1
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:11:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
45) T	C32	20.387	397570	0.876 ug/L
46) T	C34	21.382	378118	0.865 ug/L
47) T	C36	22.416	378463	0.868 ug/L
48) T	C38	23.769	384600	0.898 ug/L
49) T	C40	25.630	388037	0.894 ug/L

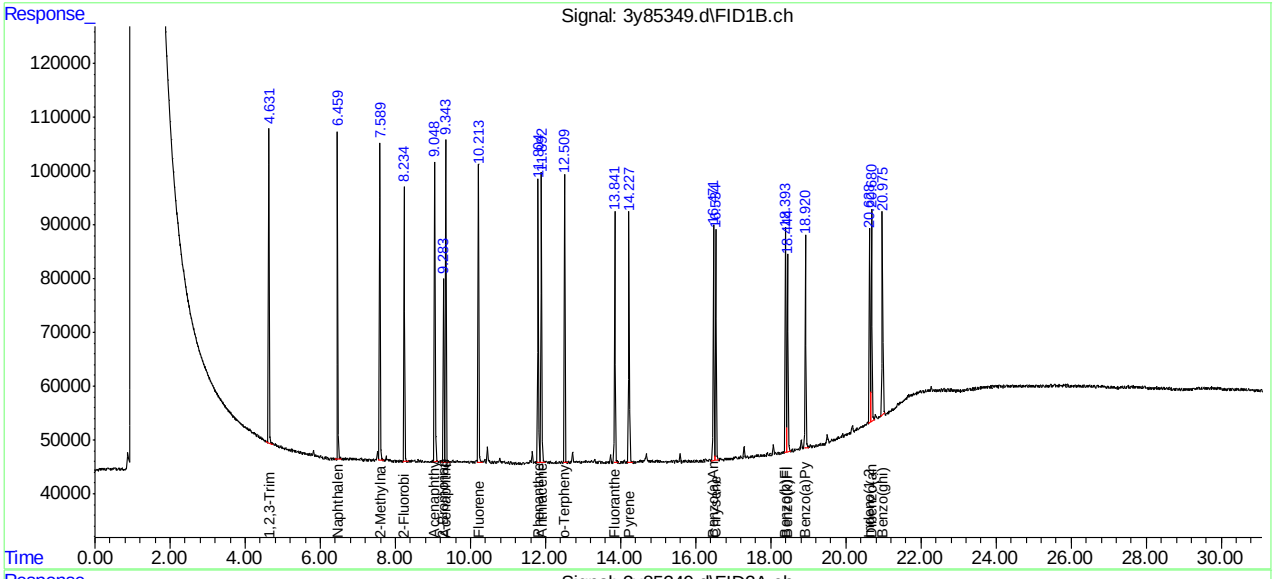
(f)=RT Delta > 1/2 Window (m)=manual int.

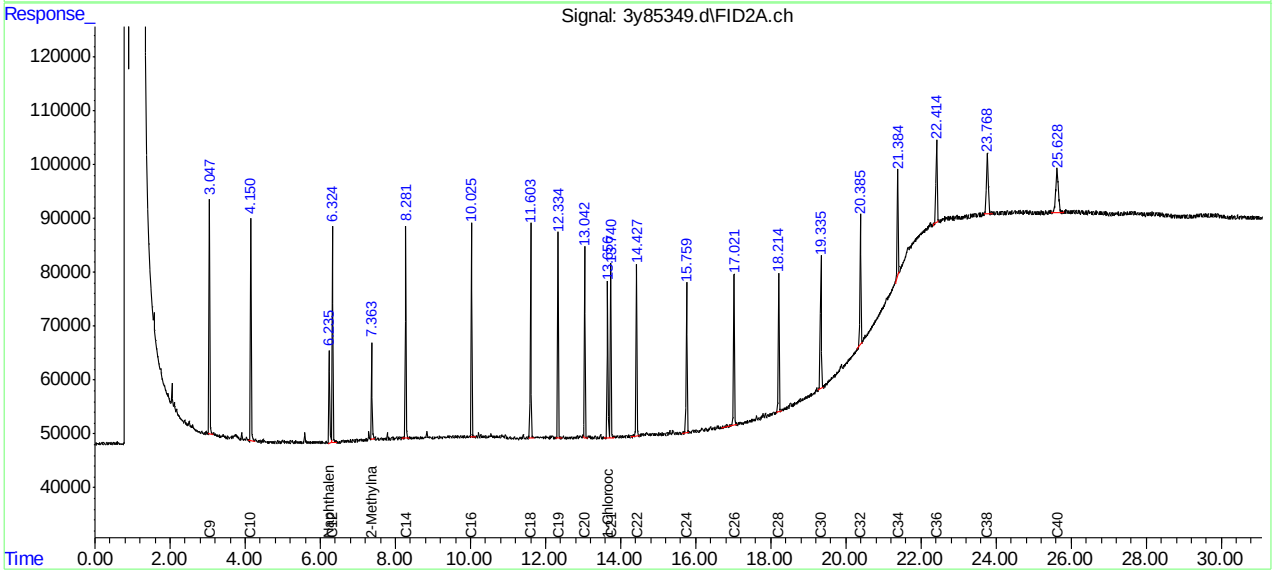
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85349.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 4:44 pm
Operator : thomasl
Sample : ic3347-1
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:11:43 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85349.d

Hydrocarbon Range Total Response

Data File Name	**3y85349.d**
Date Acquired	**9/22/2022 16:44**
Sample Name	**ic3347-1**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	614611
2)	Naphthalene	643110
3)	C10-C12 Aromatics	1257721
4)	2-Methylnaphthalene	644427
5)	Acenaphthylene	677332
6)	Acenaphthene	685620
7)	C12-C16 Aromatics	2007380
8)	Fluorene	654116
9)	Phenanthrene	639564
10)	Anthracene	634142
11)	Fluoranthene	625524
12)	Pyrene	644516
13)	C16-C21 Aromatics	3197863
14)	Benzo(a)Anthracene	649261
15)	Chrysene	628798
16)	Benzo(b)Fluoranthene	609965
17)	Benzo(k)Fluoranthene	598038
18)	Benzo(a)Pyrene	589642
19)	Indeno(1,2,3-cd)Pyrene	569358
20)	Dibenzo(ah)Anthracene	628025
21)	Benzo(ghi)Perylene	574797
22)	C21-C36 Aromatics	4847885
23)	C11-C22 Aromatics (Unadj.)	10696237)
27)	SIGNAL #2	0
28)	C9	440037
29)	C10	452660
30)	C12	467924
31)	C9-C12 Aliphatics	1360621
32)	C14	471551
33)	C16	483581
34)	C12-C16 Aliphatics	955131
35)	C18	486958
36)	C19	487914
37)	C20	485225
38)	C21	481496
39)	C16-C21 Aliphatics	1453679
40)	C22	491689
41)	C24	465576
42)	C26	459721
43)	C28	425307
44)	C30	411202
45)	C32	397570
46)	C34	378118
47)	C36	378463

C:\msdchem\1\data\g3y3347\3y85349.d

48)	C38	384600.417
49)	C40	388037.375
50)	C21-C40 Aliphatics	4180283.084
51)	C9-C18 Aliphatics	2802710.308
52)	C19-C36 Aliphatics	3605096.458

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85350.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 5:40 pm
Operator : thomasl
Sample : ic3347-2
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:14:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
24) S	2-Fluorobiphenyl (S)	8.228	1224007	2.557 ug/L
25) S	2-Bromonaphthalene (S)	9.277	853622	2.503 ug/L
26) S	o-Terphenyl (S)	12.509	1328527	2.407 ug/L
53) S	Naphthalene (S)	6.232	671727	1.215 ug/L
54) S	2-Methylnaphthalene (S)	7.361	661219	1.225 ug/L
55) S	1-Chlorooctadecane (S)	13.660	1133400	2.572 ug/L
Target Compounds				
1) T	1,2,3-Trimethylbenzene	4.623	1401148	2.645 ug/l
2) T	Naphthalene	6.451	1445523	2.599 ug/L
4) T	2-Methylnaphthalene	7.583	1405900	2.628 ug/L
5) T	Acenaphthylene	9.042	1392382	2.521 ug/l
6) T	Acenaphthene	9.338	1471522	2.340 ug/l
8) T	Fluorene	10.209	1385890	2.481 ug/l
9) T	Phenanthrene	11.802	1346453	2.459 ug/l
10) T	Anthracene	11.889	1333341	2.402 ug/l
11) T	Fluoranthene	13.840	1301272	2.446 ug/l
12) T	Pyrene	14.224	1330276	2.451 ug/l
14) T	Benzo(a)Anthracene	16.471	1274220	2.593 ug/l
15) T	Chrysene	16.532	1267998	2.463 ug/l
16) T	Benzo(b)Fluoranthene	18.393	1232298	2.517 ug/l
17) T	Benzo(k)Fluoranthene	18.442	1203454	2.441 ug/l
18) T	Benzo(a)Pyrene	18.920	1190906	2.507 ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.627	1159275	2.491 ug/l
20) T	Dibenzo(ah)Anthracene	20.679	1286306	2.644 ug/l
21) T	Benzo(ghi)Perylene	20.974	1166134	2.535 ug/l
28) T	C9	3.050	1231182	2.465 ug/L
29) T	C10	4.151	1261585	2.494 ug/L
30) T	C12	6.323	1313809	2.570 ug/L
32) T	C14	8.281	1291862	2.509 ug/L
33) T	C16	10.028	1315892	2.553 ug/L
35) T	C18	11.603	1356895	2.626 ug/L
36) T	C19	12.337	1352447	2.579 ug/L
37) T	C20	13.043	1332983	2.595 ug/L
38) T	C21	13.742	1331453	2.609 ug/L
40) T	C22	14.429	1334511	2.591 ug/L
41) T	C24	15.760	1292746	2.587 ug/L
42) T	C26	17.023	1268303	2.555 ug/L
43) T	C28	18.214	1201594	2.518 ug/L
44) T	C30	19.336	1170746	2.500 ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85350.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 5:40 pm
Operator : thomasl
Sample : ic3347-2
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:14:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
45) T	C32	20.390	1144562	2.523 ug/L
46) T	C34	21.385	1087716	2.488 ug/L
47) T	C36	22.421	1091678	2.504 ug/L
48) T	C38	23.780	1070346	2.500 ug/L
49) T	C40	25.645	1081230	2.491 ug/L

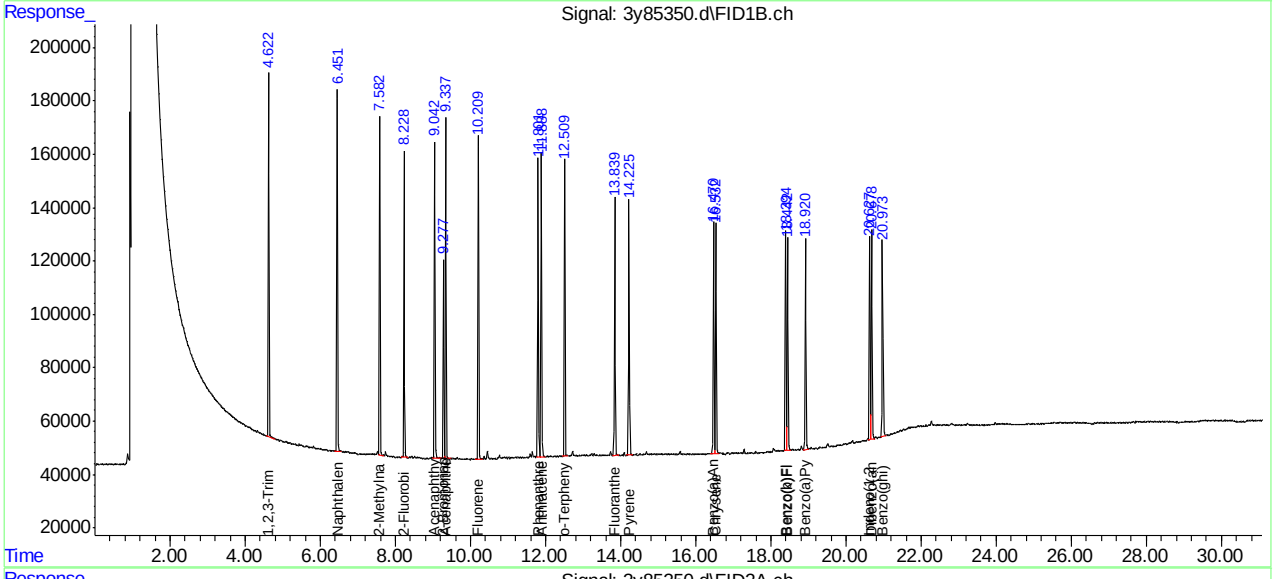
(f)=RT Delta > 1/2 Window (m)=manual int.

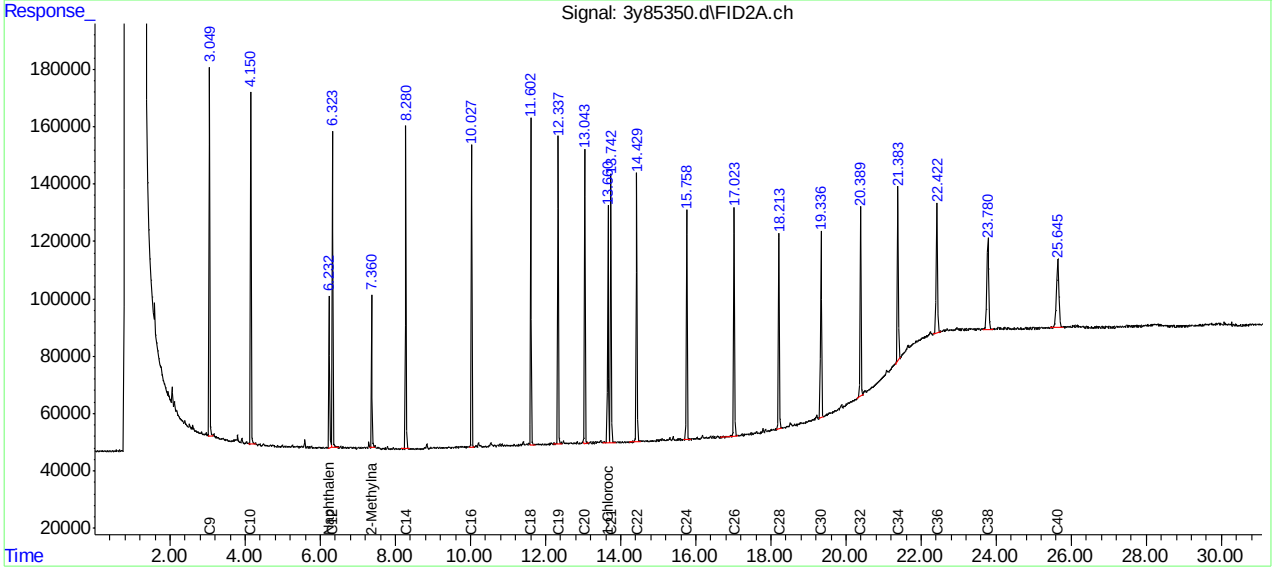
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85350.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 5:40 pm
Operator : thomasl
Sample : ic3347-2
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:14:17 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85350.d

Hydrocarbon Range Total Response

Data File Name	**3y85350.d**
Date Acquired	**9/22/2022 17:40**
Sample Name	**ic3347-2**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	1401148
2)	Naphthalene	1445523
3)	C10-C12 Aromatics	2846671
4)	2-Methylnaphthalene	1405900
5)	Acenaphthylene	1392382
6)	Acenaphthene	1471522
7)	C12-C16 Aromatics	4269804
8)	Fluorene	1385890
9)	Phenanthrene	1346453
10)	Anthracene	1333341
11)	Fluoranthene	1301272
12)	Pyrene	1330276
13)	C16-C21 Aromatics	6697233
14)	Benzo(a)Anthracene	1274220
15)	Chrysene	1267998
16)	Benzo(b)Fluoranthene	1232298
17)	Benzo(k)Fluoranthene	1203454
18)	Benzo(a)Pyrene	1190906
19)	Indeno(1,2,3-cd)Pyrene	1159275
20)	Dibenzo(ah)Anthracene	1286306
21)	Benzo(ghi)Perylene	1166134
22)	C21-C36 Aromatics	9780591
23)	C11-C22 Aromatics (Unadj.)	22193151)
27)	SIGNAL #2	0
28)	C9	1231182
29)	C10	1261585
30)	C12	1313809
31)	C9-C12 Aliphatics	3806577
32)	C14	1291862
33)	C16	1315892
34)	C12-C16 Aliphatics	2607754
35)	C18	1356895
36)	C19	1352447
37)	C20	1332983
38)	C21	1331453
39)	C16-C21 Aliphatics	4021331
40)	C22	1334511
41)	C24	1292746
42)	C26	1268303
43)	C28	1201594
44)	C30	1170746
45)	C32	1144562
46)	C34	1087716
47)	C36	1091678

C:\msdchem\1\data\g3y3347\3y85350.d

48)	C38	1070345.938
49)	C40	1081230.25
50)	C21-C40 Aliphatics	11743431.03
51)	C9-C18 Aliphatics	7771226.016
52)	C19-C36 Aliphatics	10045007.36

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85351.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:17 pm
Operator : thomasl
Sample : ic3347-5
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:17:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
24) S	2-Fluorobiphenyl (S)	8.233	3026686	6.324 ug/L
25) S	2-Bromonaphthalene (S)	9.280	2087854	6.123 ug/L
26) S	o-Terphenyl (S)	12.510	3182850	5.766 ug/L
53) S	Naphthalene (S)	6.229	1672803	3.025 ug/L
54) S	2-Methylnaphthalene (S)	7.358	1702778	3.154 ug/L
55) S	1-Chlorooctadecane (S)	13.657	2760143	6.262 ug/L
Target Compounds				
1) T	1,2,3-Trimethylbenzene	4.631	3456553	6.525 ug/l
2) T	Naphthalene	6.458	3590512	6.456 ug/L
4) T	2-Methylnaphthalene	7.587	3525790	6.592 ug/L
5) T	Acenaphthylene	9.046	3364926	6.092 ug/l
6) T	Acenaphthene	9.343	3628672	5.770 ug/l
8) T	Fluorene	10.211	3375793	6.043 ug/l
9) T	Phenanthrene	11.804	3220654	5.881 ug/l
10) T	Anthracene	11.890	3206088	5.777 ug/l
11) T	Fluoranthene	13.840	3078022	5.785 ug/l
12) T	Pyrene	14.223	3165841	5.833 ug/l
14) T	Benzo(a)Anthracene	16.470	3004563	6.115 ug/l
15) T	Chrysene	16.531	3015745	5.859 ug/l
16) T	Benzo(b)Fluoranthene	18.394	2951126	6.027 ug/l
17) T	Benzo(k)Fluoranthene	18.441	2859227	5.800 ug/l
18) T	Benzo(a)Pyrene	18.917	2869820	6.042 ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.623	2835281	6.092 ug/l
20) T	Dibenzo(ah)Anthracene	20.677	3112894	6.399 ug/l
21) T	Benzo(ghi)Perylene	20.974	2853554	6.202 ug/l
28) T	C9	3.051	3062442	6.133 ug/L
29) T	C10	4.151	3136719	6.200 ug/L
30) T	C12	6.324	3211991	6.282 ug/L
32) T	C14	8.280	3214776	6.242 ug/L
33) T	C16	10.027	3254907	6.315 ug/L
35) T	C18	11.602	3275505	6.340 ug/L
36) T	C19	12.333	3322880	6.337 ug/L
37) T	C20	13.042	3279776	6.384 ug/L
38) T	C21	13.741	3244387	6.356 ug/L
40) T	C22	14.427	3254119	6.318 ug/L
41) T	C24	15.757	3156392	6.316 ug/L
42) T	C26	17.022	3070675	6.185 ug/L
43) T	C28	18.214	2955099	6.193 ug/L
44) T	C30	19.332	2883643	6.159 ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85351.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:17 pm
Operator : thomasl
Sample : ic3347-5
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:17:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
45) T	C32	20.388	2822508	6.222 ug/L
46) T	C34	21.382	2693011	6.160 ug/L
47) T	C36	22.416	2678341	6.144 ug/L
48) T	C38	23.772	2616651	6.111 ug/L
49) T	C40	25.633	2679800	6.174 ug/L

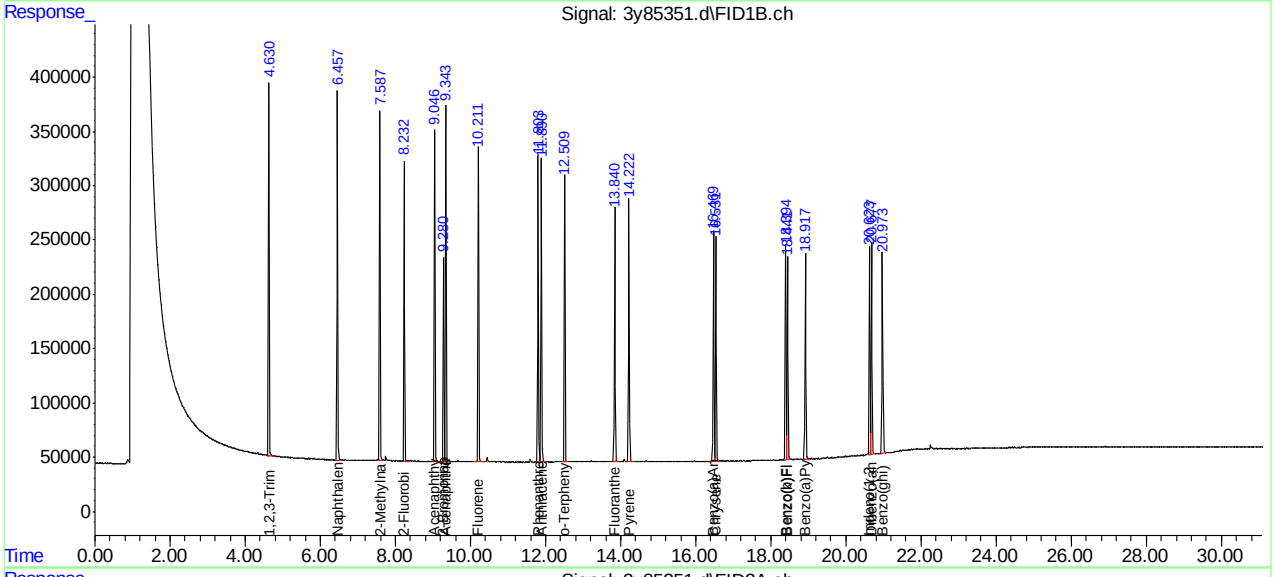
(f)=RT Delta > 1/2 Window (m)=manual int.

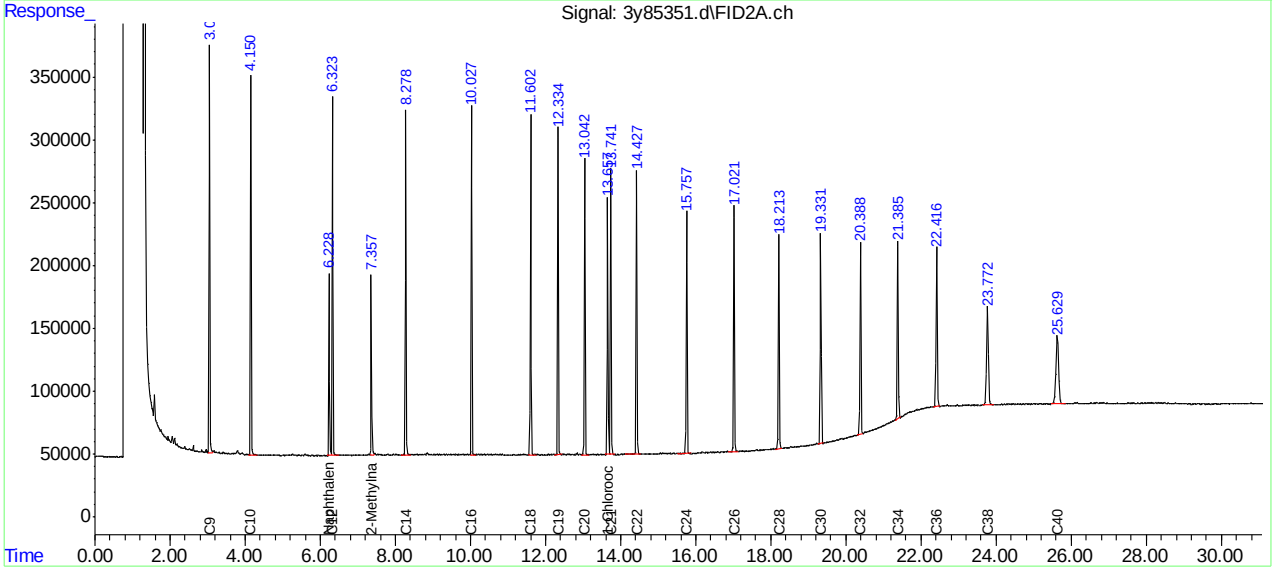
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85351.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:17 pm
Operator : thomasl
Sample : ic3347-5
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:17:34 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85351.d

Hydrocarbon Range Total Response

Data File Name	**3y85351.d**
Date Acquired	**9/22/2022 18:17**
Sample Name	**ic3347-5**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	3456553
2)	Naphthalene	3590512
3)	C10-C12 Aromatics	7047065
4)	2-Methylnaphthalene	3525790
5)	Acenaphthylene	3364926
6)	Acenaphthene	3628672
7)	C12-C16 Aromatics	10519388
8)	Fluorene	3375793
9)	Phenanthrene	3220654
10)	Anthracene	3206088
11)	Fluoranthene	3078022
12)	Pyrene	3165841
13)	C16-C21 Aromatics	16046398
14)	Benzo(a)Anthracene	3004563
15)	Chrysene	3015745
16)	Benzo(b)Fluoranthene	2951126
17)	Benzo(k)Fluoranthene	2859227
18)	Benzo(a)Pyrene	2869820
19)	Indeno(1,2,3-cd)Pyrene	2835281
20)	Dibenzo(ah)Anthracene	3112894
21)	Benzo(ghi)Perylene	2853554
22)	C21-C36 Aromatics	23502210
23)	C11-C22 Aromatics (Unadj.)	53658507)
27)	SIGNAL #2	0
28)	C9	3062442
29)	C10	3136719
30)	C12	3211991
31)	C9-C12 Aliphatics	9411151
32)	C14	3214776
33)	C16	3254907
34)	C12-C16 Aliphatics	6469683
35)	C18	3275505
36)	C19	3322880
37)	C20	3279776
38)	C21	3244387
39)	C16-C21 Aliphatics	9799668
40)	C22	3254119
41)	C24	3156392
42)	C26	3070675
43)	C28	2955099
44)	C30	2883643
45)	C32	2822508
46)	C34	2693011
47)	C36	2678341

C:\msdchem\1\data\g3y3347\3y85351.d

48)	C38	2616650.535
49)	C40	2679799.625
50)	C21-C40 Aliphatics	28810235.63
51)	C9-C18 Aliphatics	19156339.12
52)	C19-C36 Aliphatics	24600923.04

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85352.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:53 pm
Operator : thomasl
Sample : ic3347-10
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:18:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.233	5531026	11.557	ug/L
25) S	2-Bromonaphthalene (S)	9.280	3858483	11.316	ug/L
26) S	o-Terphenyl (S)	12.510	6193053	11.220	ug/L
53) S	Naphthalene (S)	6.227	3415543	6.177	ug/L
54) S	2-Methylnaphthalene (S)	7.355	3493642	6.472	ug/L
55) S	1-Chlorooctadecane (S)	13.657	5501782	12.483	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.631	6253862	11.806	ug/l
2) T	Naphthalene	6.458	6502565	11.692	ug/L
4) T	2-Methylnaphthalene	7.588	6396797	11.959	ug/L
5) T	Acenaphthylene	9.047	6173453	11.177	ug/l
6) T	Acenaphthene	9.342	6672549	10.611	ug/l
8) T	Fluorene	10.212	6329759	11.331	ug/l
9) T	Phenanthrene	11.804	6249754	11.412	ug/l
10) T	Anthracene	11.891	6248497	11.259	ug/l
11) T	Fluoranthene	13.841	6129053	11.520	ug/l
12) T	Pyrene	14.224	6299772	11.607	ug/l
14) T	Benzo(a)Anthracene	16.471	6186330	12.590	ug/l
15) T	Chrysene	16.533	6216859	12.077	ug/l
16) T	Benzo(b)Fluoranthene	18.394	6104371	12.467	ug/l
17) T	Benzo(k)Fluoranthene	18.442	5904738	11.978	ug/l
18) T	Benzo(a)Pyrene	18.917	5926284	12.476	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.625	5793582	12.449	ug/l
20) T	Dibenzo(ah)Anthracene	20.678	6247010	12.841	ug/l
21) T	Benzo(ghi)Perylene	20.975	5825315	12.662	ug/l
28) T	C9	3.051	6231248	12.478	ug/L
29) T	C10	4.151	6355182	12.561	ug/L
30) T	C12	6.323	6420260	12.557	ug/L
32) T	C14	8.279	6472789	12.569	ug/L
33) T	C16	10.029	6524263	12.659	ug/L
35) T	C18	11.602	6541383	12.661	ug/L
36) T	C19	12.334	6617860	12.621	ug/L
37) T	C20	13.042	6509613	12.670	ug/L
38) T	C21	13.741	6426999	12.592	ug/L
40) T	C22	14.426	6376002	12.380	ug/L
41) T	C24	15.758	6246519	12.499	ug/L
42) T	C26	17.021	6066063	12.219	ug/L
43) T	C28	18.211	5891862	12.347	ug/L
44) T	C30	19.333	5781554	12.348	ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85352.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:53 pm
Operator : thomasl
Sample : ic3347-10
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:18:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

Compound	R.T.	Response	Conc Units
45) T C32	20.388	5668965	12.497 ug/L
46) T C34	21.381	5434908	12.432 ug/L
47) T C36	22.414	5434914	12.467 ug/L
48) T C38	23.769	5295353	12.366 ug/L
49) T C40	25.626	5412633	12.470 ug/L

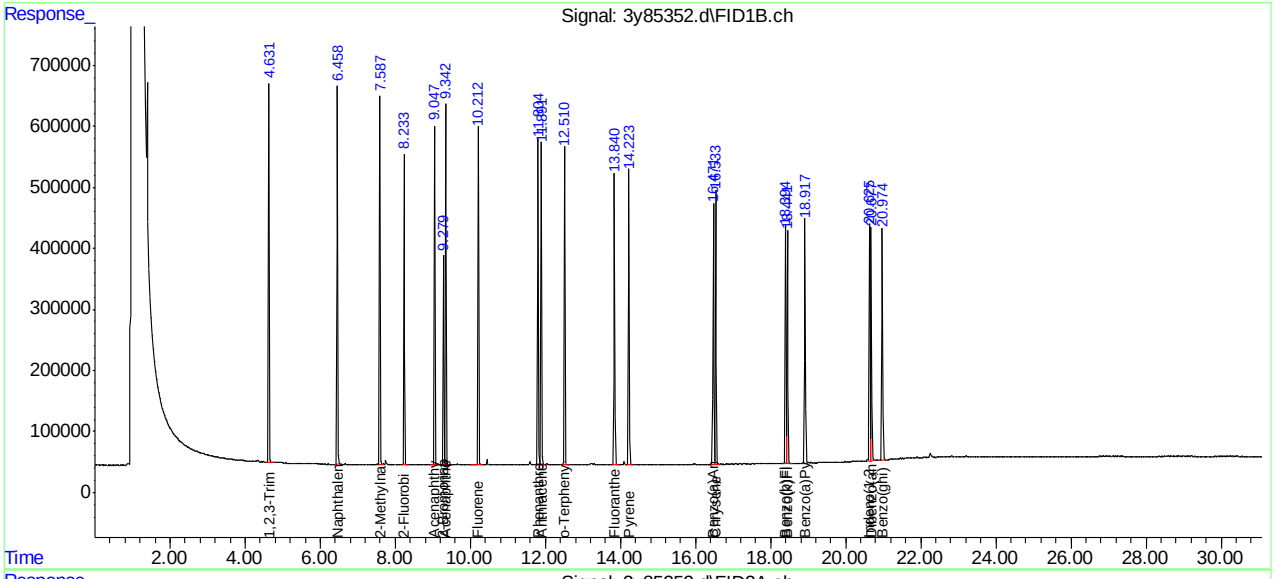
(f)=RT Delta > 1/2 Window (m)=manual int.

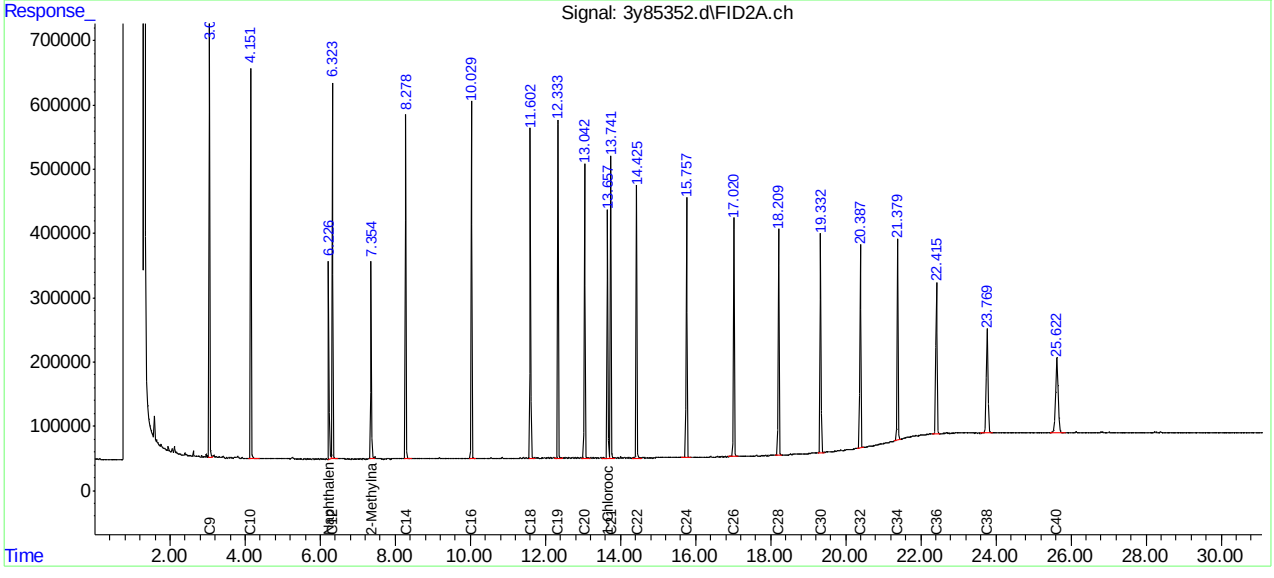
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85352.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 6:53 pm
Operator : thomasl
Sample : ic3347-10
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:18:32 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85352.d

Hydrocarbon Range Total Response

Data File Name	**3y85352.d**
Date Acquired	**9/22/2022 18:53**
Sample Name	**ic3347-10**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	6253862
2)	Naphthalene	6502565
3)	C10-C12 Aromatics	12756426
4)	2-Methylnaphthalene	6396797
5)	Acenaphthylene	6173453
6)	Acenaphthene	6672549
7)	C12-C16 Aromatics	19242799
8)	Fluorene	6329759
9)	Phenanthrene	6249754
10)	Anthracene	6248497
11)	Fluoranthene	6129053
12)	Pyrene	6299772
13)	C16-C21 Aromatics	31256835
14)	Benzo(a)Anthracene	6186330
15)	Chrysene	6216859
16)	Benzo(b)Fluoranthene	6104371
17)	Benzo(k)Fluoranthene	5904738
18)	Benzo(a)Pyrene	5926284
19)	Indeno(1,2,3-cd)Pyrene	5793582
20)	Dibenzo(ah)Anthracene	6247010
21)	Benzo(ghi)Perylene	5825315
22)	C21-C36 Aromatics	48204490
23)	C11-C22 Aromatics (Unadj.)	105206688)
27)	SIGNAL #2	0
28)	C9	6231248
29)	C10	6355182
30)	C12	6420260
31)	C9-C12 Aliphatics	19006690
32)	C14	6472789
33)	C16	6524263
34)	C12-C16 Aliphatics	12997051
35)	C18	6541383
36)	C19	6617860
37)	C20	6509613
38)	C21	6426999
39)	C16-C21 Aliphatics	19477995
40)	C22	6376002
41)	C24	6246519
42)	C26	6066063
43)	C28	5891862
44)	C30	5781554
45)	C32	5668965
46)	C34	5434908
47)	C36	5434914

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48)	C38	5295352.75
49)	C40	5412633.25
50)	C21-C40 Aliphatics	57608773.02
51)	C9-C18 Aliphatics	38545124.17
52)	C19-C36 Aliphatics	48924387.53

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85353.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 7:30 pm
Operator : thomasl
Sample : ic3347-20
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:19:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.233	11627345	24.294	ug/L
25) S	2-Bromonaphthalene (S)	9.281	8028632	23.545	ug/L
26) S	o-Terphenyl (S)	12.511	12359735	22.391	ug/L
53) S	Naphthalene (S)	6.226	7028929	12.711	ug/L
54) S	2-Methylnaphthalene (S)	7.355	7198598	13.335	ug/L
55) S	1-Chlorooctadecane (S)	13.659	11258779	25.545	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.631	13523735	25.530	ug/l
2) T	Naphthalene	6.458	13994455	25.162	ug/L
4) T	2-Methylnaphthalene	7.588	13602865	25.432	ug/L
5) T	Acenaphthylene	9.047	12881188	23.321	ug/l
6) T	Acenaphthene	9.343	13920854	22.137	ug/l
8) T	Fluorene	10.213	13085459	23.424	ug/l
9) T	Phenanthrene	11.805	12577737	22.966	ug/l
10) T	Anthracene	11.892	12514615	22.549	ug/l
11) T	Fluoranthene	13.841	12010573	22.574	ug/l
12) T	Pyrene	14.225	12291540	22.647	ug/l
14) T	Benzo(a)Anthracene	16.473	11782267	23.978	ug/l
15) T	Chrysene	16.535	11822555	22.967	ug/l
16) T	Benzo(b)Fluoranthene	18.395	11574043	23.639	ug/l
17) T	Benzo(k)Fluoranthene	18.444	11199977	22.719	ug/l
18) T	Benzo(a)Pyrene	18.919	11303095	23.796	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.628	11326296	24.337	ug/l
20) T	Dibenzo(ah)Anthracene	20.681	12228248	25.136	ug/l
21) T	Benzo(ghi)Perylene	20.980	11312958	24.589	ug/l
28) T	C9	3.051	12760076	25.552	ug/L
29) T	C10	4.152	13020134	25.735	ug/L
30) T	C12	6.324	13189710	25.797	ug/L
32) T	C14	8.281	13297548	25.821	ug/L
33) T	C16	10.028	13359925	25.922	ug/L
35) T	C18	11.603	13354524	25.847	ug/L
36) T	C19	12.335	13509112	25.763	ug/L
37) T	C20	13.042	13263294	25.816	ug/L
38) T	C21	13.742	13145284	25.755	ug/L
40) T	C22	14.429	13022249	25.285	ug/L
41) T	C24	15.758	12760900	25.533	ug/L
42) T	C26	17.022	12398664	24.974	ug/L
43) T	C28	18.212	12071111	25.297	ug/L
44) T	C30	19.334	11867026	25.344	ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85353.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 7:30 pm
Operator : thomasl
Sample : ic3347-20
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:19:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
45) T	C32	20.386	11700200	25.793	ug/L
46) T	C34	21.383	11282712	25.809	ug/L
47) T	C36	22.416	11272536	25.858	ug/L
48) T	C38	23.771	10993578	25.673	ug/L
49) T	C40	25.630	11245992	25.910	ug/L

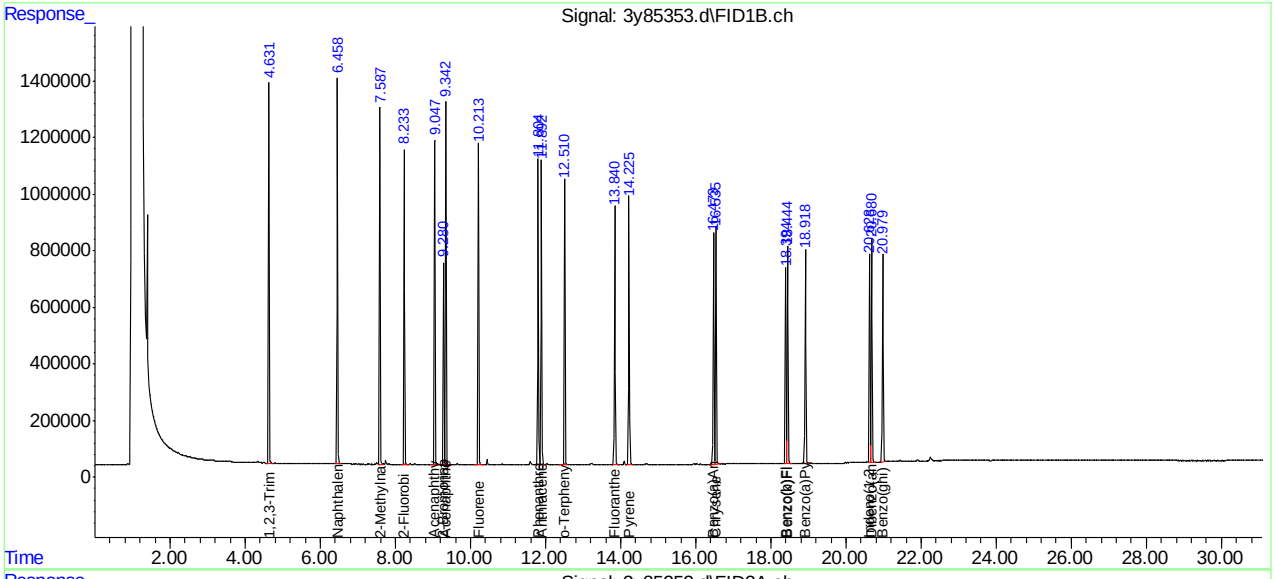
(f)=RT Delta > 1/2 Window (m)=manual int.

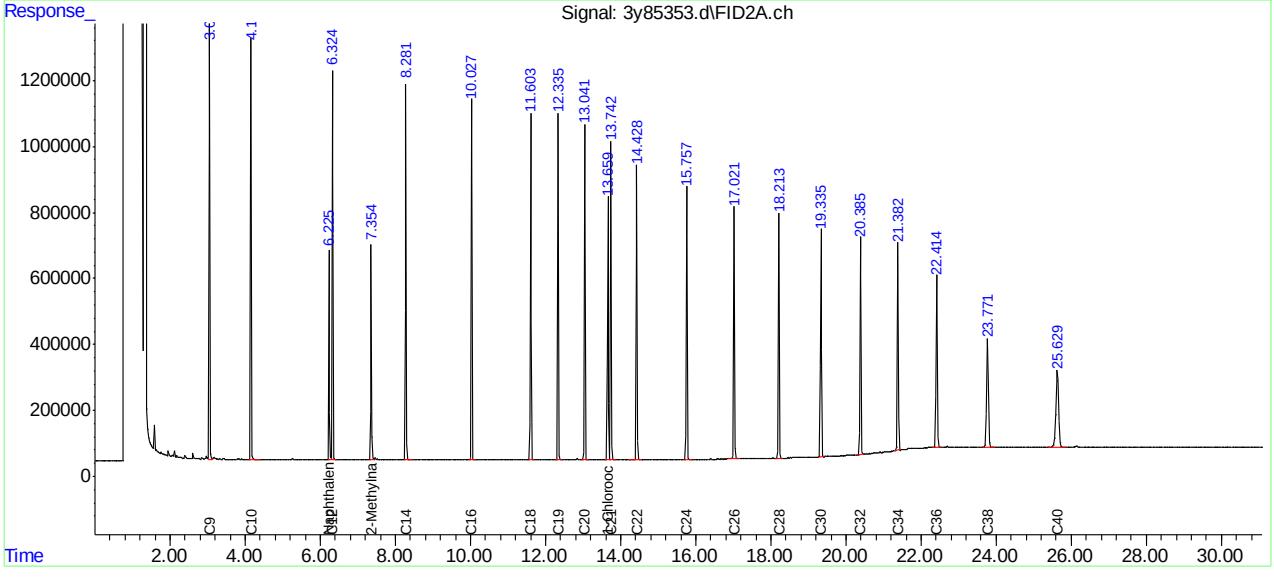
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85353.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 7:30 pm
Operator : thomasl
Sample : ic3347-20
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:19:26 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85353.d

Hydrocarbon Range Total Response

Data File Name	**3y85353.d**
Date Acquired	**9/22/2022 19:30**
Sample Name	**ic3347-20**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	13523735
2)	Naphthalene	13994455
3)	C10-C12 Aromatics	27518189
4)	2-Methylnaphthalene	13602865
5)	Acenaphthylene	12881188
6)	Acenaphthene	13920854
7)	C12-C16 Aromatics	40404907
8)	Fluorene	13085459
9)	Phenanthrene	12577737
10)	Anthracene	12514615
11)	Fluoranthene	12010573
12)	Pyrene	12291540
13)	C16-C21 Aromatics	62479924
14)	Benzo(a)Anthracene	11782267
15)	Chrysene	11822555
16)	Benzo(b)Fluoranthene	11574043
17)	Benzo(k)Fluoranthene	11199977
18)	Benzo(a)Pyrene	11303095
19)	Indeno(1,2,3-cd)Pyrene	11326296
20)	Dibenzo(ah)Anthracene	12228248
21)	Benzo(ghi)Perylene	11312958
22)	C21-C36 Aromatics	92549440
23)	C11-C22 Aromatics (Unadj.)	209428726)
27)	SIGNAL #2	0
28)	C9	12760076
29)	C10	13020134
30)	C12	13189710
31)	C9-C12 Aliphatics	38969920
32)	C14	13297548
33)	C16	13359925
34)	C12-C16 Aliphatics	26657473
35)	C18	13354524
36)	C19	13509112
37)	C20	13263294
38)	C21	13145284
39)	C16-C21 Aliphatics	39763103
40)	C22	13022249
41)	C24	12760900
42)	C26	12398664
43)	C28	12071111
44)	C30	11867026
45)	C32	11700200
46)	C34	11282712
47)	C36	11272536

C:\msdchem\1\data\g3y3347\3y85353.d

48)	C38	10993577.83
49)	C40	11245991.86
50)	C21-C40 Aliphatics	118614966.6
51)	C9-C18 Aliphatics	78981916.84
52)	C19-C36 Aliphatics	100164891.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85354.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:07 pm
Operator : thomasl
Sample : icc3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:20:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.237	29973226	62.626	ug/L
25) S	2-Bromonaphthalene (S)	9.285	20769911	60.911	ug/L
26) S	o-Terphenyl (S)	12.515	32772879	59.372	ug/L
53) S	Naphthalene (S)	6.225	16672974	30.151	ug/L
54) S	2-Methylnaphthalene (S)	7.354	16938115	31.377	ug/L
55) S	1-Chlorooctadecane (S)	13.661	26664310	60.498	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.634	33876096	63.950	ug/l
2) T	Naphthalene	6.462	35411576	63.670	ug/L
4) T	2-Methylnaphthalene	7.592	34664474	64.808	ug/L
5) T	Acenaphthylene	9.052	33353999	60.385	ug/l
6) T	Acenaphthene	9.351	35933733	57.142	ug/l
8) T	Fluorene	10.219	33967383	60.803	ug/l
9) T	Phenanthrene	11.811	32950903	60.167	ug/l
10) T	Anthracene	11.899	32805441	59.110	ug/l
11) T	Fluoranthene	13.849	31658968	59.504	ug/l
12) T	Pyrene	14.233	32376621	59.652	ug/l
14) T	Benzo(a)Anthracene	16.481	30324282	61.713	ug/l
15) T	Chrysene	16.546	30357640	58.975	ug/l
16) T	Benzo(b)Fluoranthene	18.405	29496587	60.243	ug/l
17) T	Benzo(k)Fluoranthene	18.459	28493983	57.800	ug/l
18) T	Benzo(a)Pyrene	18.931	28796918	60.624	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.641	28878860	62.052	ug/l
20) T	Dibenzo(ah)Anthracene	20.694	30734365	63.176	ug/l
21) T	Benzo(ghi)Perylene	20.997	28653278	62.280	ug/l
28) T	C9	3.051	30433863	60.944	ug/L
29) T	C10	4.154	30707597	60.695	ug/L
30) T	C12	6.326	30956365	60.547	ug/L
32) T	C14	8.284	31181507	60.547	ug/L
33) T	C16	10.031	31338213	60.805	ug/L
35) T	C18	11.606	31385828	60.746	ug/L
36) T	C19	12.339	31870078	60.778	ug/L
37) T	C20	13.046	31283991	60.891	ug/L
38) T	C21	13.744	31049375	60.833	ug/L
40) T	C22	14.432	30793572	59.790	ug/L
41) T	C24	15.762	30255683	60.538	ug/L
42) T	C26	17.026	29447029	59.314	ug/L
43) T	C28	18.217	28866096	60.494	ug/L
44) T	C30	19.338	28696028	61.286	ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85354.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:07 pm
Operator : thomasl
Sample : icc3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:20:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
45) T	C32	20.393	28527297	62.888 ug/L
46) T	C34	21.387	27557750	63.037 ug/L
47) T	C36	22.422	27619588	63.355 ug/L
48) T	C38	23.778	26921237	62.868 ug/L
49) T	C40	25.637	27355199	63.024 ug/L

(f)=RT Delta > 1/2 Window (m)=manual int.

7.5.11

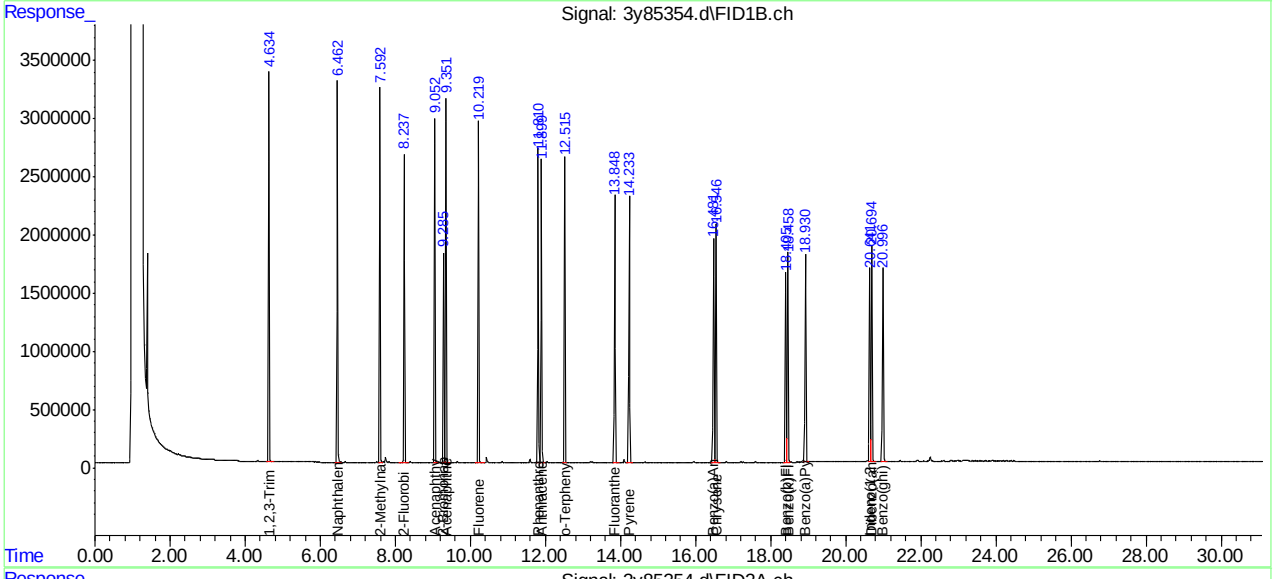
7

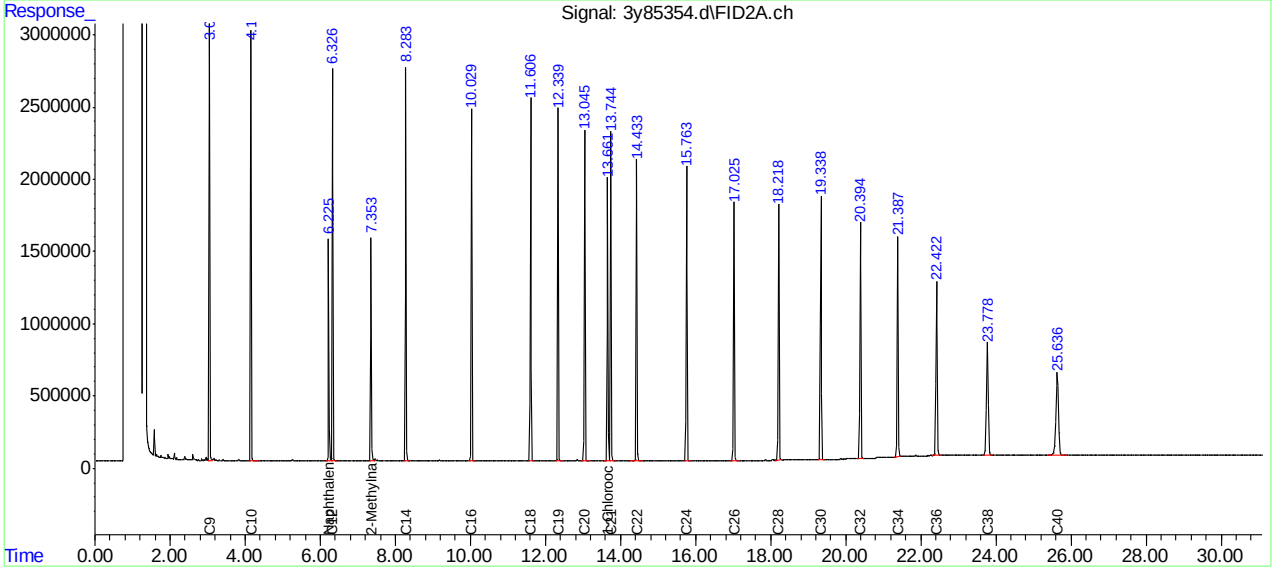
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85354.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:07 pm
Operator : thomasl
Sample : icc3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:20:33 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:10:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85354.d

Hydrocarbon Range Total Response

Data File Name	**3y85354.d**
Date Acquired	**9/22/2022 20:07**
Sample Name	**icc3347-50**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	33876096
2)	Naphthalene	35411576
3)	C10-C12 Aromatics	69287672
4)	2-Methylnaphthalene	34664474
5)	Acenaphthylene	33353999
6)	Acenaphthene	35933733
7)	C12-C16 Aromatics	103952206
8)	Fluorene	33967383
9)	Phenanthrene	32950903
10)	Anthracene	32805441
11)	Fluoranthene	31658968
12)	Pyrene	32376621
13)	C16-C21 Aromatics	163759316
14)	Benzo(a)Anthracene	30324282
15)	Chrysene	30357640
16)	Benzo(b)Fluoranthene	29496587
17)	Benzo(k)Fluoranthene	28493983
18)	Benzo(a)Pyrene	28796918
19)	Indeno(1,2,3-cd)Pyrene	28878860
20)	Dibenzo(ah)Anthracene	30734365
21)	Benzo(ghi)Perylene	28653278
22)	C21-C36 Aromatics	235735913
23)	C11-C22 Aromatics (Unadj.)	538859011)
27)	SIGNAL #2	0
28)	C9	30433863
29)	C10	30707597
30)	C12	30956365
31)	C9-C12 Aliphatics	92097825
32)	C14	31181507
33)	C16	31338213
34)	C12-C16 Aliphatics	62519720
35)	C18	31385828
36)	C19	31870078
37)	C20	31283991
38)	C21	31049375
39)	C16-C21 Aliphatics	93719195
40)	C22	30793572
41)	C24	30255683
42)	C26	29447029
43)	C28	28866096
44)	C30	28696028
45)	C32	28527297
46)	C34	27557750
47)	C36	27619588

C:\msdchem\1\data\g3y3347\3y85354.d

48)	C38	26921236.65
49)	C40	27355198.83
50)	C21-C40 Aliphatics	286039478.7
51)	C9-C18 Aliphatics	186003373.7
52)	C19-C36 Aliphatics	238832065.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85355.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:35 pm
Operator : thomasl
Sample : ic3347-100
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:28:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:27:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
24) S	2-Fluorobiphenyl (S)	8.242	57075675	119.254	ug/L
25) S	2-Bromonaphthalene (S)	9.291	39700821	116.430	ug/L
26) S	o-Terphenyl (S)	12.521	63227677	114.545	ug/L
53) S	Naphthalene (S)	6.227	32333104	58.471	ug/L
54) S	2-Methylnaphthalene (S)	7.357	32943947	61.026	ug/L
55) S	1-Chlorooctadecane (S)	13.666	51492019	116.830	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.638	64543608	121.843	ug/l
2) T	Naphthalene	6.468	67664267	121.661	ug/L
4) T	2-Methylnaphthalene	7.598	66179315	123.728	ug/L
5) T	Acenaphthylene	9.059	63515459	114.991	ug/l
6) T	Acenaphthene	9.359	68477242	108.893	ug/l
8) T	Fluorene	10.226	64932775	116.233	ug/l
9) T	Phenanthrene	11.818	63808143	116.511	ug/l
10) T	Anthracene	11.908	63756816	114.879	ug/l
11) T	Fluoranthene	13.859	62834281	118.099	ug/l
12) T	Pyrene	14.245	64603513	119.029	ug/l
14) T	Benzo(a)Anthracene	16.493	63460336	129.148	ug/l
15) T	Chrysene	16.562	63644233	123.639	ug/l
16) T	Benzo(b)Fluoranthene	18.420	62710863	128.079	ug/l
17) T	Benzo(k)Fluoranthene	18.478	60369840	122.460	ug/l
18) T	Benzo(a)Pyrene	18.948	60854059	128.112	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.657	61911625	133.030	ug/l
20) T	Dibenzo(ah)Anthracene	20.715	62999225	129.499	ug/l
21) T	Benzo(ghi)Perylene	21.021	60285565	131.034	ug/l
28) T	C9	3.052	58525705	117.199	ug/L
29) T	C10	4.157	59226482	117.064	ug/L
30) T	C12	6.330	59894258	117.145	ug/L
32) T	C14	8.288	60355966	117.198	ug/L
33) T	C16	10.035	60514279	117.414	ug/L
35) T	C18	11.611	60520869	117.136	ug/L
36) T	C19	12.343	61359481	117.016	ug/L
37) T	C20	13.051	60250725	117.272	ug/L
38) T	C21	13.752	59886034	117.330	ug/L
40) T	C22	14.438	59446443	115.424	ug/L
41) T	C24	15.768	58678754	117.409	ug/L
42) T	C26	17.032	57378187	115.575	ug/L
43) T	C28	18.222	56871336	119.184	ug/L
44) T	C30	19.343	56906300	121.535	ug/L

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85355.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:35 pm
Operator : thomasl
Sample : ic3347-100
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:28:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:27:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
45) T	C32	20.398	56757911	125.122	ug/L
46) T	C34	21.393	55014366	125.843	ug/L
47) T	C36	22.430	55150238	126.507	ug/L
48) T	C38	23.790	53912855	125.900	ug/L
49) T	C40	25.655	55405664	127.650	ug/L

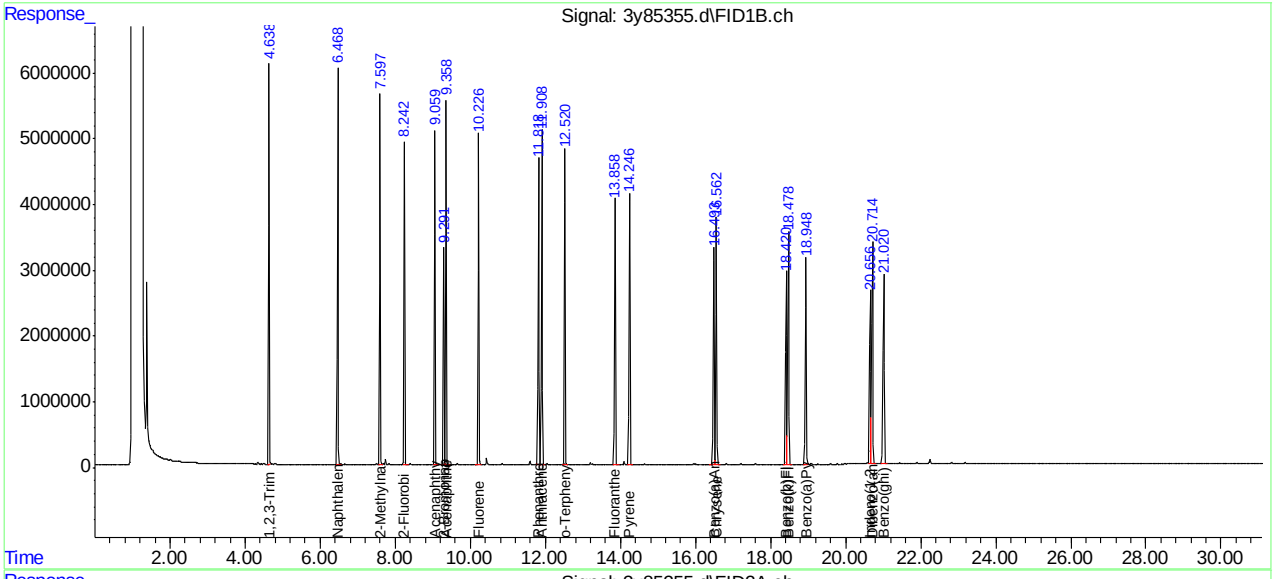
(f)=RT Delta > 1/2 Window (m)=manual int.

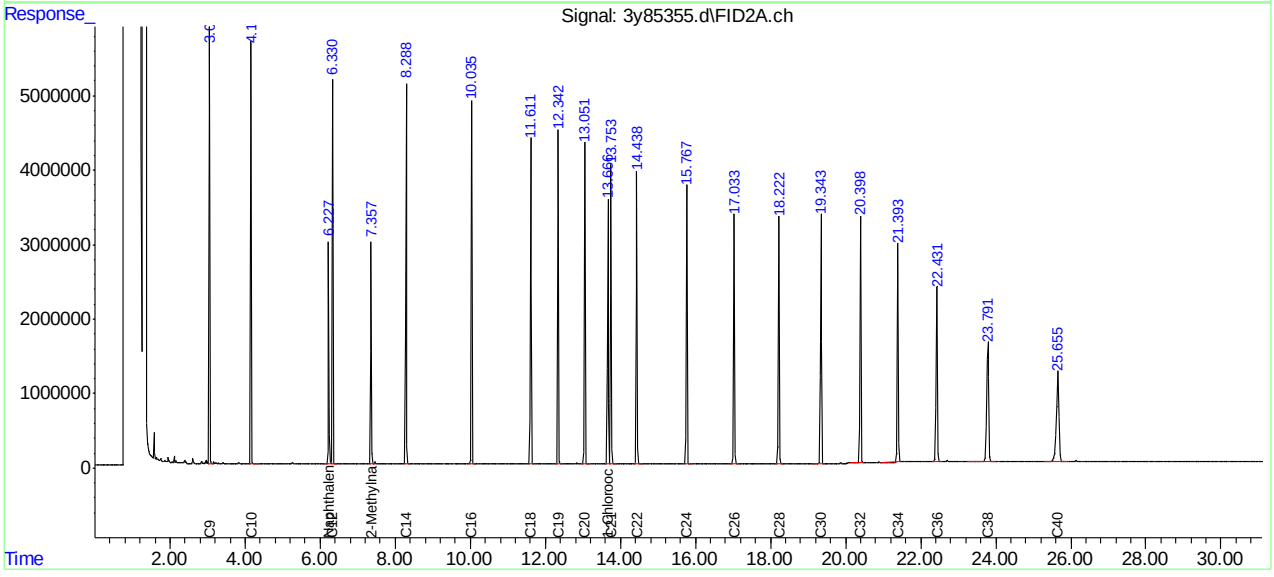
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85355.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 8:35 pm
Operator : thomasl
Sample : ic3347-100
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 11:28:08 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 11:27:34 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85355.d

Hydrocarbon Range Total Response

Data File Name	**3y85355.d**
Date Acquired	**9/22/2022 20:35**
Sample Name	**ic3347-100**

	Name	Target Response
1)	1,2,3-Trimethylbenzene	64543608
2)	Naphthalene	67664267
3)	C10-C12 Aromatics	132207874
4)	2-Methylnaphthalene	66179315
5)	Acenaphthylene	63515459
6)	Acenaphthene	68477242
7)	C12-C16 Aromatics	198172015
8)	Fluorene	64932775
9)	Phenanthrene	63808143
10)	Anthracene	63756816
11)	Fluoranthene	62834281
12)	Pyrene	64603513
13)	C16-C21 Aromatics	319935529
14)	Benzo(a)Anthracene	63460336
15)	Chrysene	63644233
16)	Benzo(b)Fluoranthene	62710863
17)	Benzo(k)Fluoranthene	60369840
18)	Benzo(a)Pyrene	60854059
19)	Indeno(1,2,3-cd)Pyrene	61911625
20)	Dibenzo(ah)Anthracene	62999225
21)	Benzo(ghi)Perylene	60285565
22)	C21-C36 Aromatics	496235746
23)	C11-C22 Aromatics (Unadj.)	1082007556)
27)	SIGNAL #2	0
28)	C9	58525705
29)	C10	59226482
30)	C12	59894258
31)	C9-C12 Aliphatics	177646445
32)	C14	60355966
33)	C16	60514279
34)	C12-C16 Aliphatics	120870246
35)	C18	60520869
36)	C19	61359481
37)	C20	60250725
38)	C21	59886034
39)	C16-C21 Aliphatics	180657628
40)	C22	59446443
41)	C24	58678754
42)	C26	57378187
43)	C28	56871336
44)	C30	56906300
45)	C32	56757911
46)	C34	55014366
47)	C36	55150238

C:\msdchem\1\data\g3y3347\3y85355.d

48)	C38	53912855.25
49)	C40	55405664.42
50)	C21-C40 Aliphatics	565522054.5
51)	C9-C18 Aliphatics	359037559.7
52)	C19-C36 Aliphatics	466041464.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85356.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 9:12 pm
Operator : thomasl
Sample : icv3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 17:09:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units
System Monitoring Compounds					
53) S	Naphthalene (S)	6.226	35811562	55.642	ug/L
54) S	2-Methylnaphthalene (S)	7.356	36572092	55.984	ug/L
Target Compounds					
1) T	1,2,3-Trimethylbenzene	4.635	33613984	50.809	ug/l
2) T	Naphthalene	6.462	34846187	50.619	ug/L
4) T	2-Methylnaphthalene	7.592	34870823	51.634	ug/L
5) T	Acenaphthylene	9.052	30314421	46.029	ug/l
6) T	Acenaphthene	9.348	33056736	47.091	ug/l
8) T	Fluorene	10.218	32493626	49.040	ug/l
9) T	Phenanthrene	11.810	31518320	48.943	ug/l
10) T	Anthracene	11.898	31102093	48.529	ug/l
11) T	Fluoranthene	13.849	30142777	48.320	ug/l
12) T	Pyrene	14.232	29763329	46.495	ug/l
14) T	Benzo(a)Anthracene	16.480	28138135	45.425	ug/l
15) T	Chrysene	16.546	28545219	46.229	ug/l
16) T	Benzo(b)Fluoranthene	18.406	28065541	46.526	ug/l
17) T	Benzo(k)Fluoranthene	18.458	28182050	48.167	ug/l
18) T	Benzo(a)Pyrene	18.931	27803409	47.454	ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.642	28118629	48.499	ug/l
20) T	Dibenzo(ah)Anthracene	20.695	29013149	46.426	ug/l
21) T	Benzo(ghi)Perylene	20.996	28671883	49.524	ug/l
28) T	C9	3.051	31587604	53.627	ug/L
29) T	C10	4.153	32171132	53.571	ug/L
30) T	C12	6.325	32691799	53.383	ug/L
32) T	C14	8.282	33554371	54.626	ug/L
33) T	C16	10.030	33243940	53.560	ug/L
35) T	C18	11.605	33631722	53.807	ug/L
37) T	C20	13.047	33203388	53.431	ug/L
38) T	C21	13.744	32937329	53.421	ug/L
40) T	C22	14.430	32705333	53.132	ug/L
41) T	C24	15.761	31984612	53.335	ug/L
42) T	C26	17.026	30827382	52.667	ug/L
43) T	C28	18.216	30031332	53.141	ug/L
44) T	C30	19.337	29110293	52.413	ug/L
45) T	C32	20.390	28300333	51.800	ug/L
46) T	C34	21.386	28063534	53.534	ug/L
47) T	C36	22.419	27335481	52.125	ug/L
48) T	C38	23.771	27095141	52.687	ug/L
49) T	C40	25.629	27185599	51.862	ug/L

Quantitation Report (QT Reviewed)

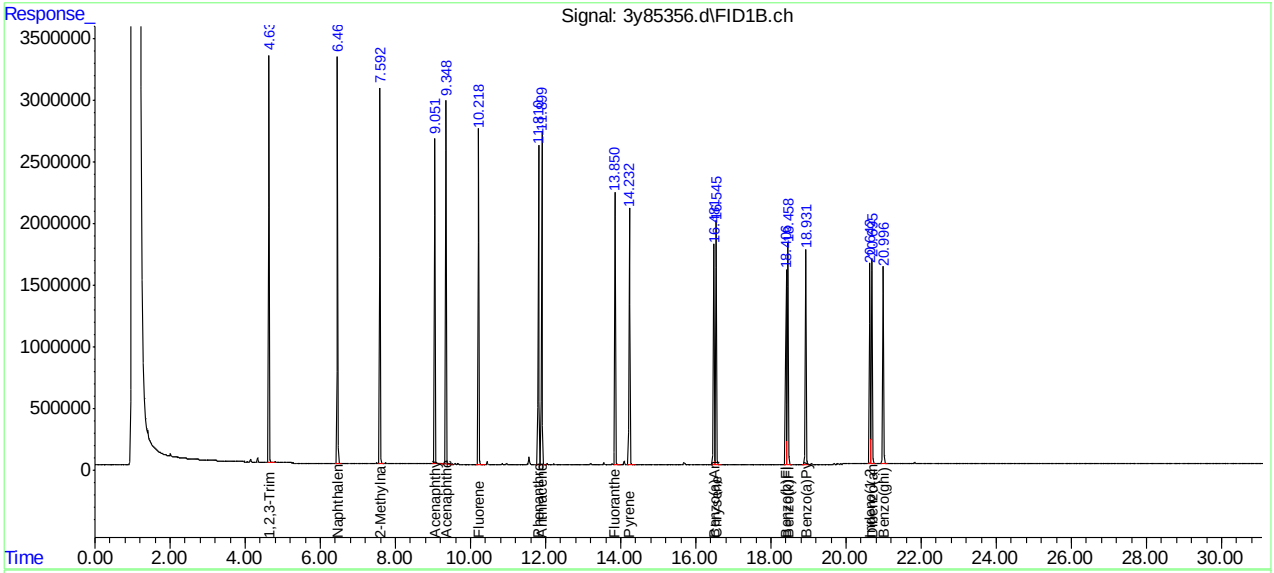
```
Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85356.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 22 Sep 2022   9:12 pm
Operator  : thomasl
Sample    : icv3347-50
Misc      : op40644,g3y3347,15.0,,,2,1
ALS Vial  : 13   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 17:09:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/col
Signal #1 Phase : HP5               Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um  Signal #2 Info : 30mx.32mm.x25um

        Compound                      R.T.       Response    Conc Units
 ---------------------------------------------------------------------------
 ---------------------------------------------------------------------------

(f)=RT Delta > 1/2 Window                                  (m)=manual int.
```

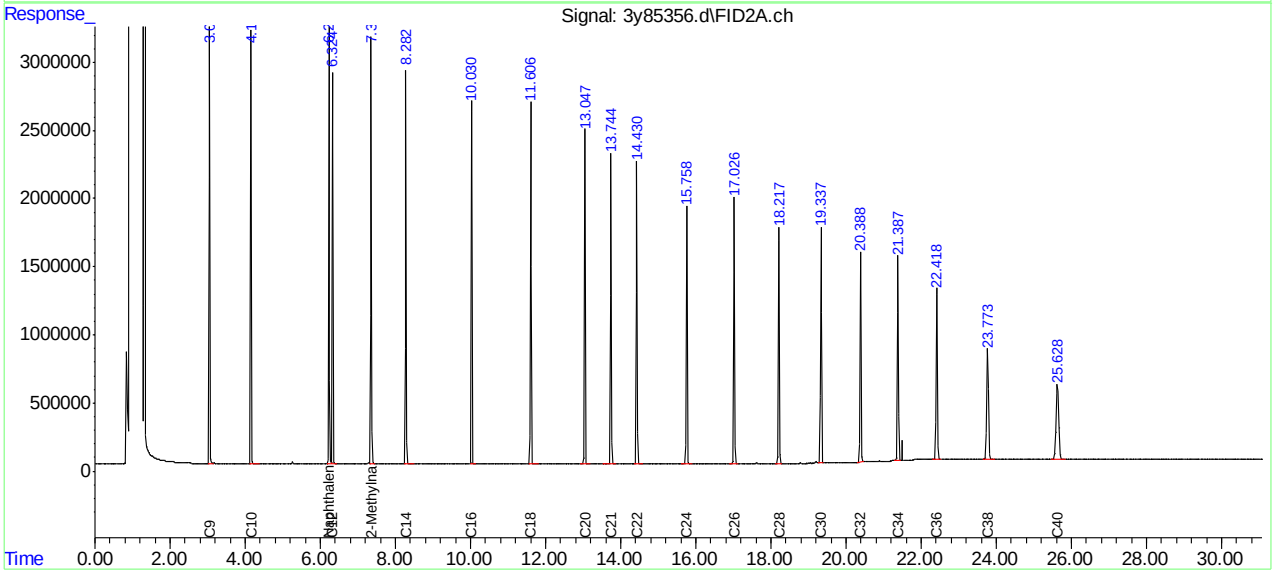
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85356.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 9:12 pm
Operator : thomasl
Sample : icv3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 17:09:38 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





C:\msdchem\1\data\g3y3347\3y85356.d

Hydrocarbon Range Total Response

Data File Name	**3y85356.d**
Date Acquired	**9/22/2022 21:12**
Sample Name	**icv3347-50**

	Name	Target Response	AvgRF	CCRF	%D
1)	1,2,3-Trimethylbenzene	33613984			
2)	Naphthalene	34846187			
3)	C10-C12 Aromatics	68460171	6.75E+05	684601.7096	-1.4
4)	2-Methylnaphthalene	34870823			
5)	Acenaphthylene	30314421			
6)	Acenaphthene	33056736			
7)	C12-C16 Aromatics	98241980	678640.4343	654946.5304	3.5
8)	Fluorene	32493626			
9)	Phenanthrene	31518320			
10)	Anthracene	31102093			
11)	Fluoranthene	30142777			
12)	Pyrene	29763329			
13)	C16-C21 Aromatics	155020146	642285.1546	620080.5837	3.5
14)	Benzo(a)Anthracene	28138135			
15)	Chrysene	28545219			
16)	Benzo(b)Fluoranthene	28065541			
17)	Benzo(k)Fluoranthene	28182050			
18)	Benzo(a)Pyrene	27803409			
19)	Indeno(1,2,3-cd)Pyrene	28118629			
20)	Dibenzo(ah)Anthracene	29013149			
21)	Benzo(ghi)Perylene	28671883			
22)	C21-C36 Aromatics	226538017	599350.3432	566345.0416	5.5
27)	SIGNAL #2				
28)	C9	31587604			
29)	C10	32171132			
30)	C12	32691799			
31)	C9-C12 Aliphatics	96450535	600653.6024	643003.5642	-7.1
32)	C14	33554371			
33)	C16	33243940			
34)	C12-C16 Aliphatics	66798311	617472.8721	667983.1087	-8.2
35)	C18	33631722			
37)	C20	33203388			
38)	C21	32937329			
39)	C16-C21 Aliphatics	99772438	621009.1871	665149.5861	-7.1
40)	C22	32705333			
41)	C24	31984612			
42)	C26	30827382			
43)	C28	30031332			
44)	C30	29110293			
45)	C32	28300333			
46)	C34	28063534			
47)	C36	27335481			
48)	C38	27095141.18			
49)	C40	27185599.37			
50)	C21-C40 Aliphatics	292639040.3	555452.5925	585278.0805	-5.4
	For MAEPH				
23)	C11-C22 Aromatics (Unadj.)	514646329)	631209)	605466)	4.1
36)	C19	0			
51)	C9-C18 Aliphatics	196880567.2	610324.8207	656268.5573	-7.5
52)	C19-C36 Aliphatics	215197820.4	587241.5002	614850.9154	-4.7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85357.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 9:49 pm
Operator : thomasl
Sample : icv3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 17:08:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
Target Compounds			
36) T C19	12.337	31729410	50.285 ug/L

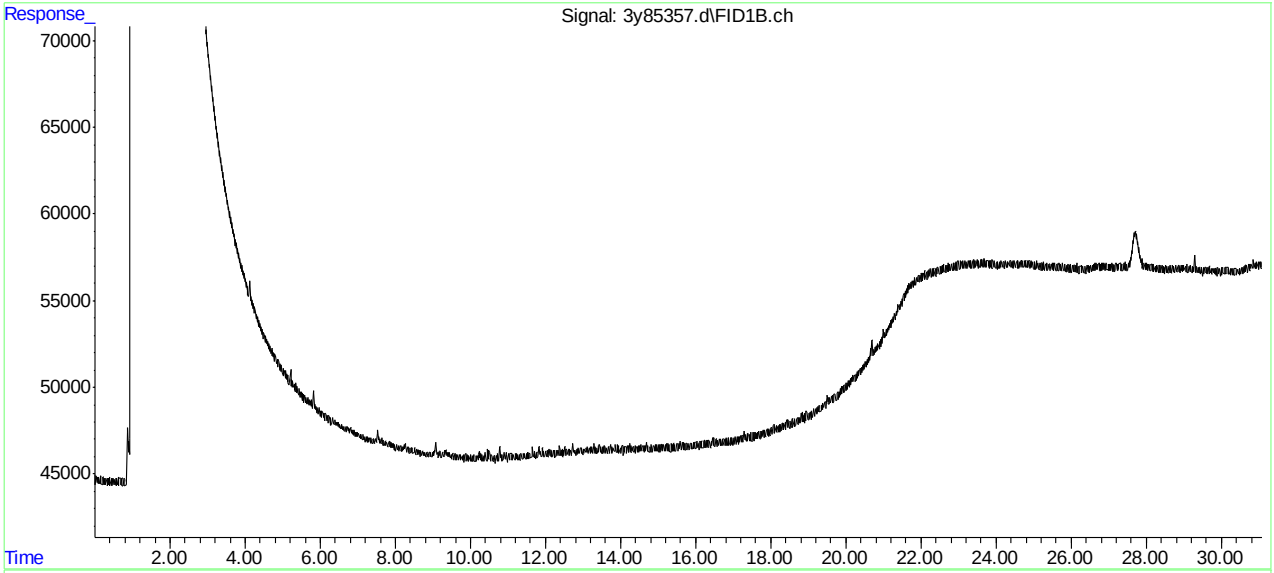
(f)=RT Delta > 1/2 Window (m)=manual int.

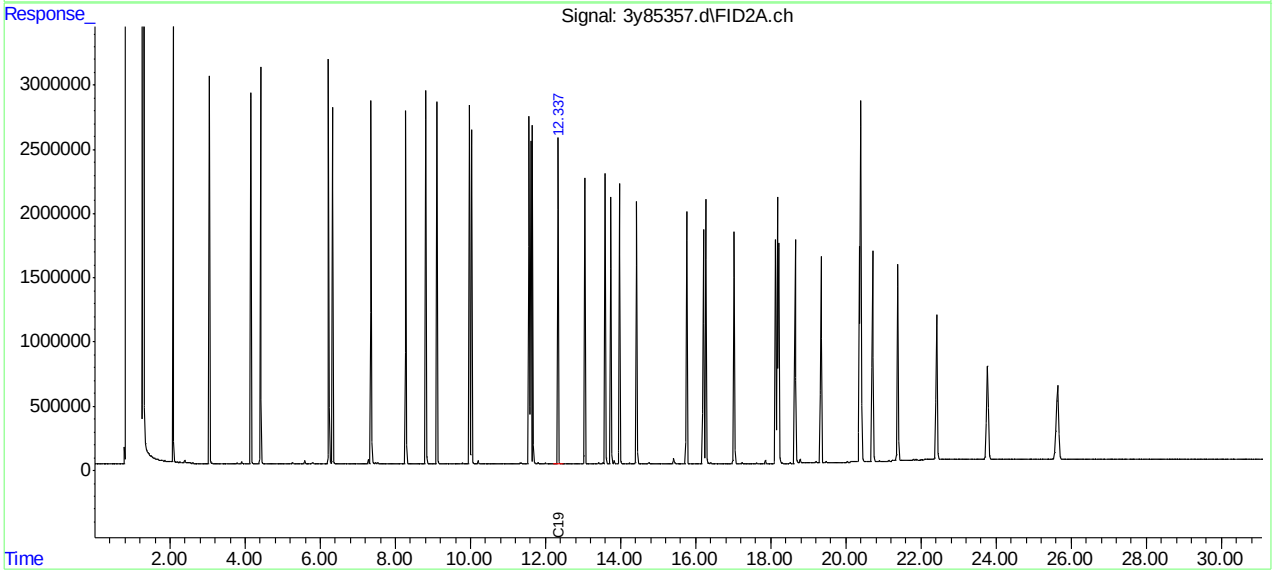
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3347\
Data File : 3y85357.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 22 Sep 2022 9:49 pm
Operator : thomasl
Sample : icv3347-50
Misc : op40644,g3y3347,15.0,,,2,1
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 25 17:08:47 2022
Quant Method : C:\MSDCHEM\1\METHODS\EPH3Y3347.M
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um





Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
09/27/22 12:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85358.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 12:08 pm
Operator : thomasl
Sample : cc3347-20
Misc : op40644,g3y3348,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:10 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
24) S	2-Fluorobiphenyl (S)	8.232	13348588	22.853	ug/L	
25) S	2-Bromonaphthalene (S)	9.279	9219424	22.748	ug/L	
26) S	o-Terphenyl (S)	12.509	14225578	22.313	ug/L	
53) S	Naphthalene (S)	6.230	6335993	9.845	ug/L	
54) S	2-Methylnaphthalene (S)	7.358	6468857	9.902	ug/L	m
55) S	1-Chlorooctadecane (S)	13.660	10424152	19.807	ug/L	
Target Compounds						
1) T	1,2,3-Trimethylbenzene	4.630	15271988	23.084	ug/l	
2) T	Naphthalene	6.457	15875107	23.061	ug/L	
4) T	2-Methylnaphthalene	7.586	15492775	22.940	ug/L	
5) T	Acenaphthylene	9.046	14818251	22.500	ug/l	
6) T	Acenaphthene	9.342	15962296	22.739	ug/l	
8) T	Fluorene	10.212	14935439	22.541	ug/l	
9) T	Phenanthrene	11.803	14430207	22.408	ug/l	
10) T	Anthracene	11.890	14195156	22.149	ug/l	
11) T	Fluoranthene	13.840	13865926	22.228	ug/l	
12) T	Pyrene	14.224	14186853	22.162	ug/l	
14) T	Benzo(a)Anthracene	16.471	13454624	21.720	ug/l	
15) T	Chrysene	16.534	13499878	21.863	ug/l	
16) T	Benzo(b)Fluoranthene	18.395	13201708	21.886	ug/l	
17) T	Benzo(k)Fluoranthene	18.443	12802545	21.881	ug/l	
18) T	Benzo(a)Pyrene	18.917	12883738	21.990	ug/l	
19) T	Indeno(1,2,3-cd)Pyrene	20.625	12957482	22.349	ug/l	
20) T	Dibenzo(ah)Anthracene	20.679	13949255	22.321	ug/l	
21) T	Benzo(ghi)Perylene	20.978	12918530	22.314	ug/l	
28) T	C9	3.052	11545948	19.602	ug/L	
29) T	C10	4.155	11732011	19.536	ug/L	
30) T	C12	6.328	11984225	19.569	ug/L	
32) T	C14	8.284	12179599	19.828	ug/L	
33) T	C16	10.030	12282877	19.789	ug/L	
35) T	C18	11.606	12306310	19.689	ug/L	
36) T	C19	12.336	12488762	19.792	ug/L	
37) T	C20	13.045	12260979	19.730	ug/L	
38) T	C21	13.742	12197782	19.784	ug/L	
40) T	C22	14.430	12062393	19.596	ug/L	
41) T	C24	15.761	11812883	19.698	ug/L	
42) T	C26	17.022	11458070	19.576	ug/L	
43) T	C28	18.213	11175964	19.776	ug/L	
44) T	C30	19.334	11039254	19.876	ug/L	
45) T	C32	20.388	10860044	19.878	ug/L	
46) T	C34	21.383	10456042	19.946	ug/L	
47) T	C36	22.416	10439727	19.907	ug/L	
48) T	C38	23.763	10144723	19.727	ug/L	
49) T	C40	25.616	10295645	19.641	ug/L	

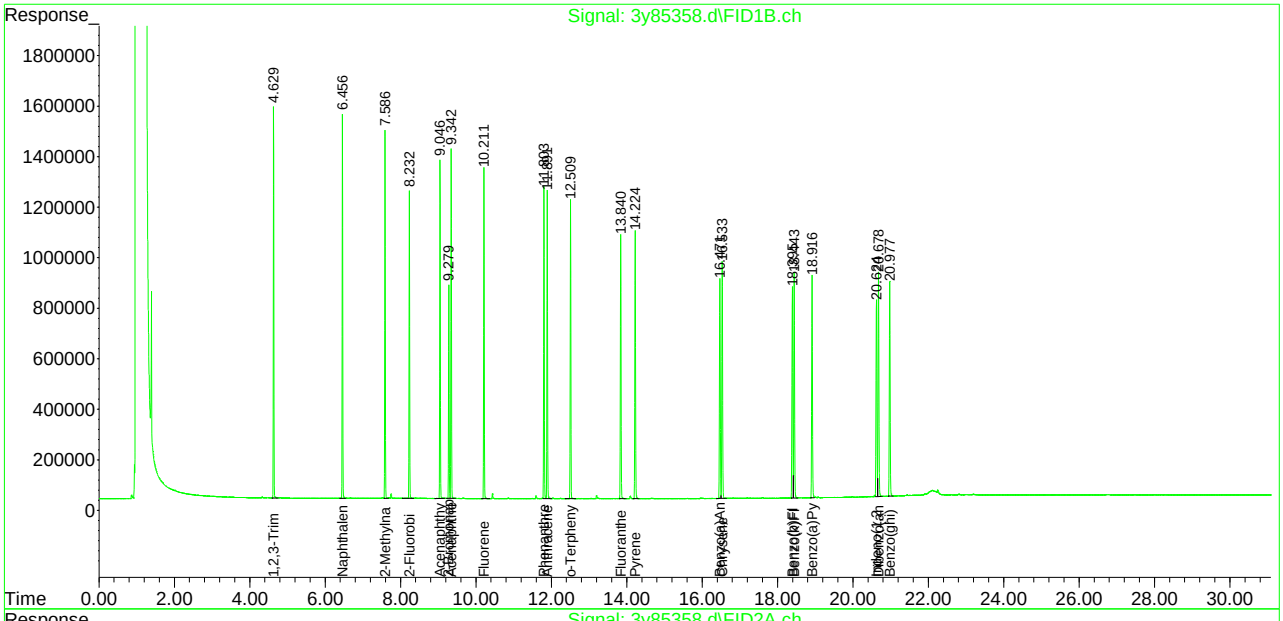
(f)=RT Delta > 1/2 Window (m)=manual int.

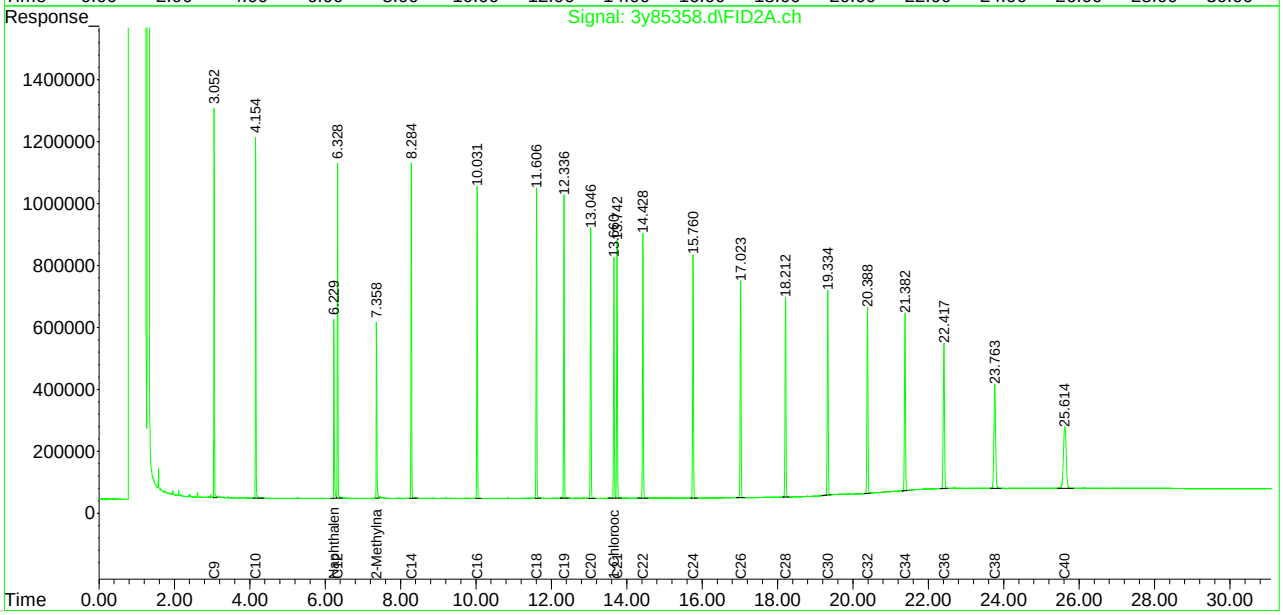
Quantitation Report (QT Reviewed)

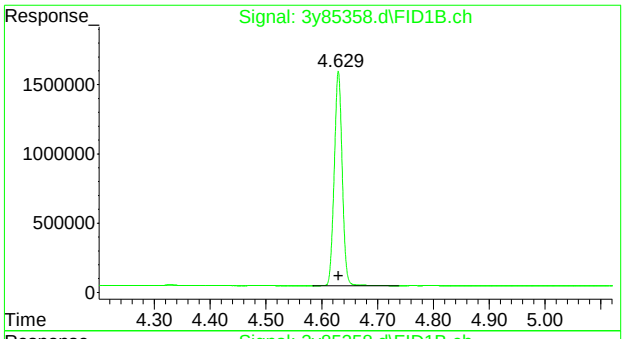
Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85358.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 12:08 pm
Operator : thomasl
Sample : cc3347-20
Misc : op40644,g3y3348,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:10 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

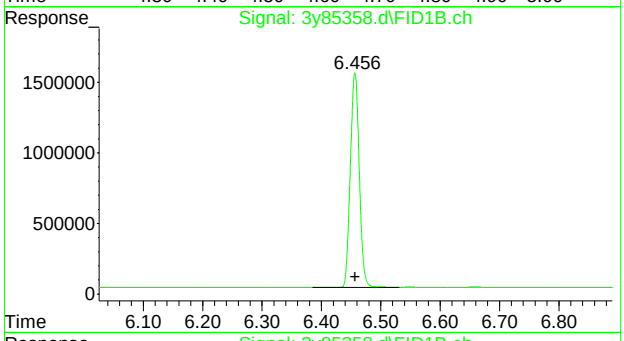






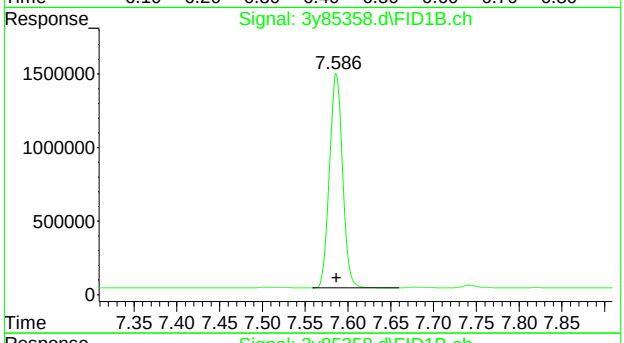
#1 1,2,3-Trimethylbenzene

R.T.: 4.630 min
Delta R.T.: 0.000 min
Response: 15271988
Conc: 23.08 ug/l



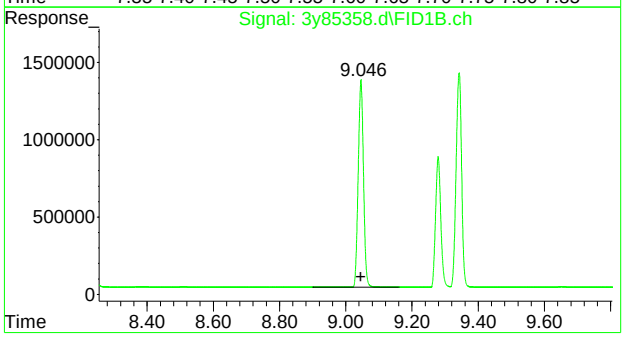
#2 Naphthalene

R.T.: 6.457 min
Delta R.T.: 0.000 min
Response: 15875107
Conc: 23.06 ug/L



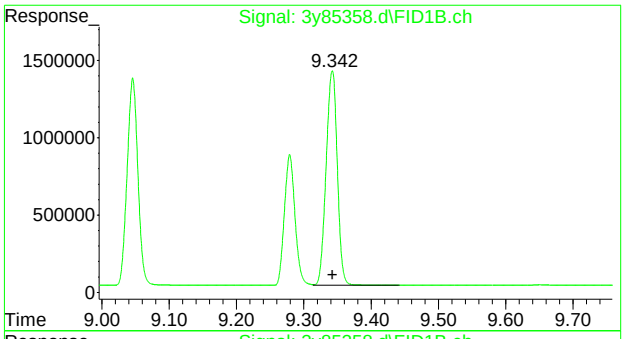
#4 2-Methylnaphthalene

R.T.: 7.586 min
Delta R.T.: 0.000 min
Response: 15492775
Conc: 22.94 ug/L



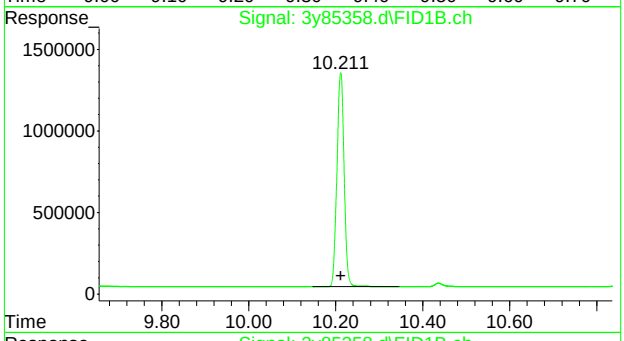
#5 Acenaphthylene

R.T.: 9.046 min
Delta R.T.: 0.000 min
Response: 14818251
Conc: 22.50 ug/l



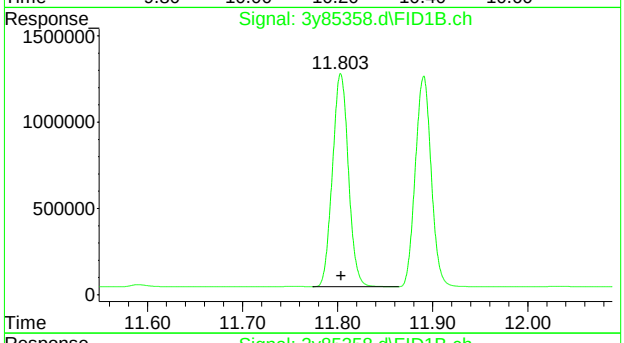
#6 Acenaphthene

R.T.: 9.342 min
Delta R.T.: 0.000 min
Response: 15962296
Conc: 22.74 ug/l



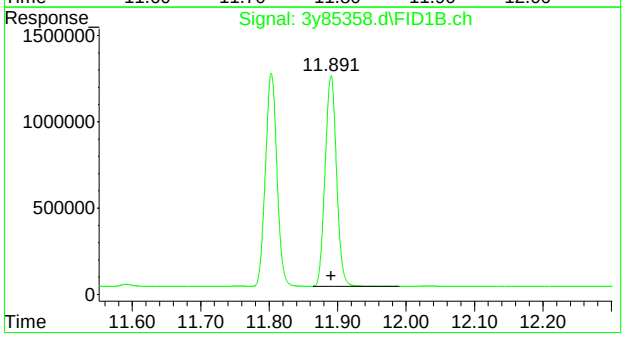
#8 Fluorene

R.T.: 10.212 min
Delta R.T.: 0.000 min
Response: 14935439
Conc: 22.54 ug/l



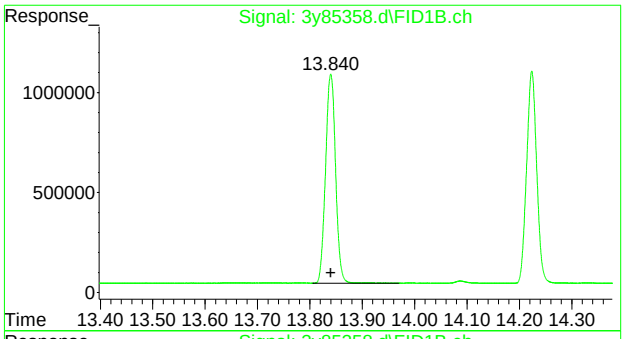
#9 Phenanthrene

R.T.: 11.803 min
Delta R.T.: 0.000 min
Response: 14430207
Conc: 22.41 ug/l



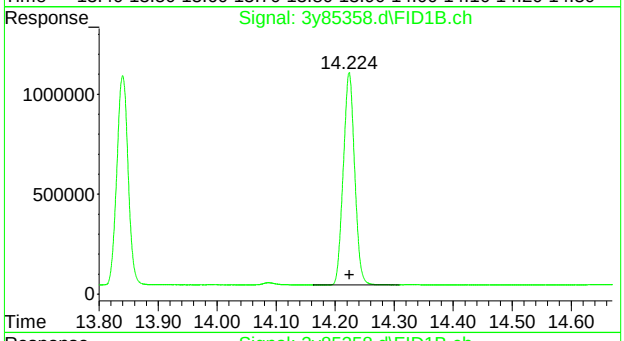
#10 Anthracene

R.T.: 11.890 min
Delta R.T.: 0.000 min
Response: 14195156
Conc: 22.15 ug/l



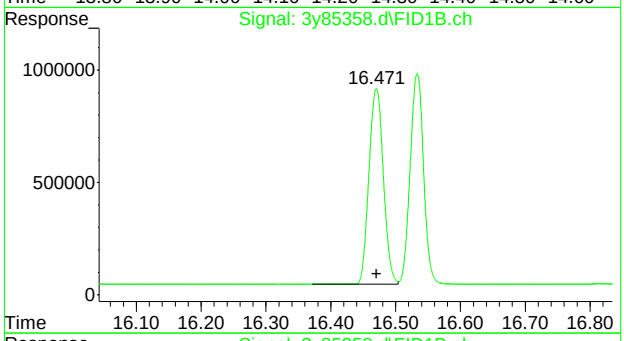
#11 Fluoranthene

R.T.: 13.840 min
Delta R.T.: 0.000 min
Response: 13865926
Conc: 22.23 ug/l



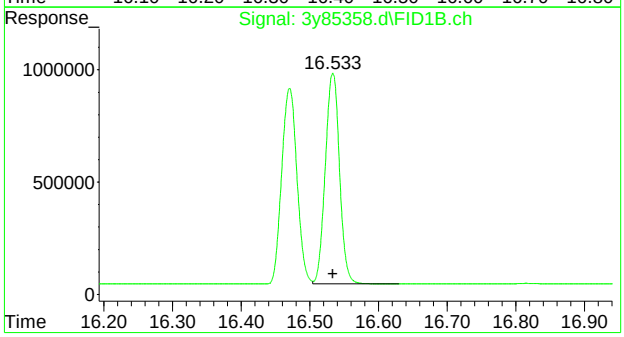
#12 Pyrene

R.T.: 14.224 min
Delta R.T.: 0.000 min
Response: 14186853
Conc: 22.16 ug/l



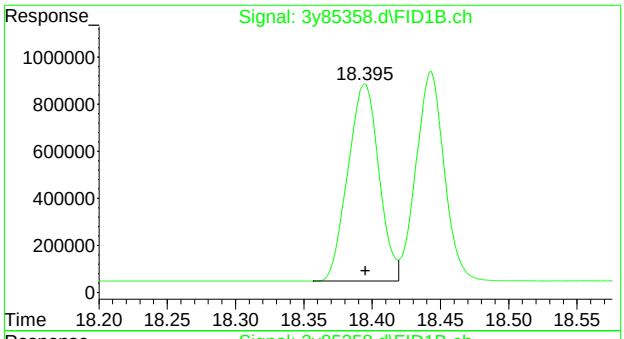
#14 Benzo(a)Anthracene

R.T.: 16.471 min
Delta R.T.: 0.000 min
Response: 13454624
Conc: 21.72 ug/l



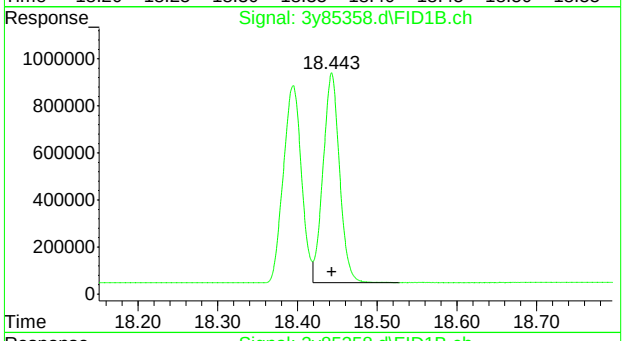
#15 Chrysene

R.T.: 16.534 min
Delta R.T.: 0.000 min
Response: 13499878
Conc: 21.86 ug/l



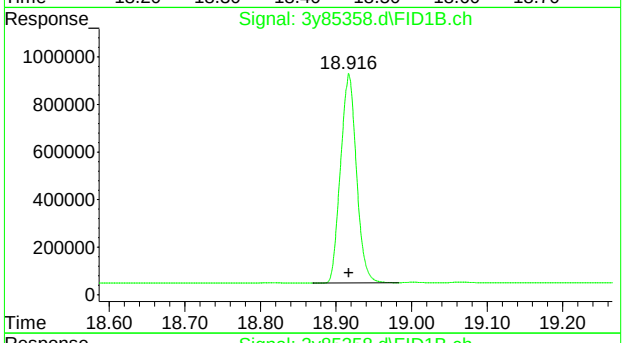
#16 Benzo(b)Fluoranthene

R.T.: 18.395 min
Delta R.T.: 0.000 min
Response: 13201708
Conc: 21.89 ug/l



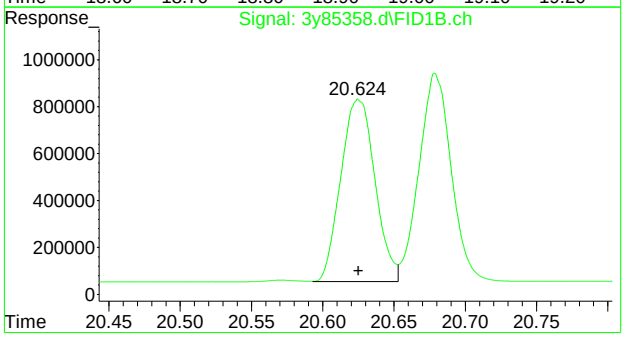
#17 Benzo(k)Fluoranthene

R.T.: 18.443 min
Delta R.T.: 0.000 min
Response: 12802545
Conc: 21.88 ug/l



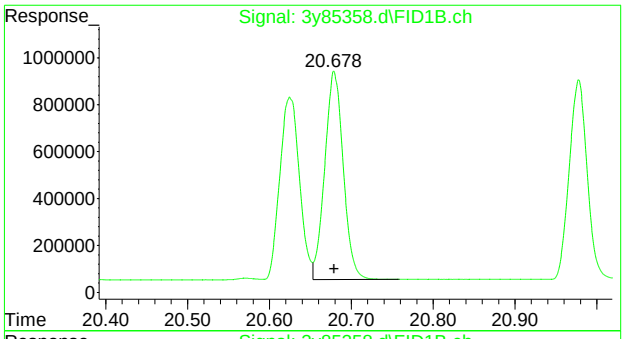
#18 Benzo(a)Pyrene

R.T.: 18.917 min
Delta R.T.: 0.000 min
Response: 12883738
Conc: 21.99 ug/l



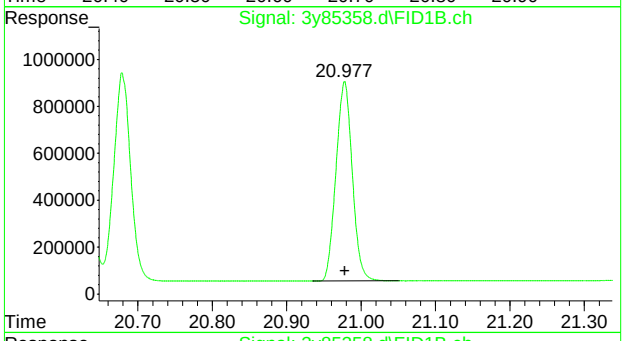
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.625 min
Delta R.T.: 0.000 min
Response: 12957482
Conc: 22.35 ug/l



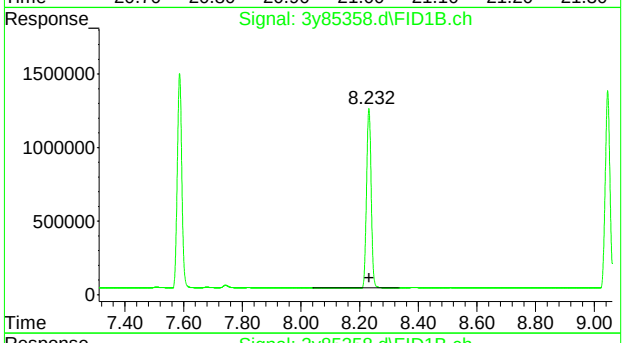
#20 Dibenzo(ah)Anthracene

R.T.: 20.679 min
Delta R.T.: 0.000 min
Response: 13949255
Conc: 22.32 ug/l



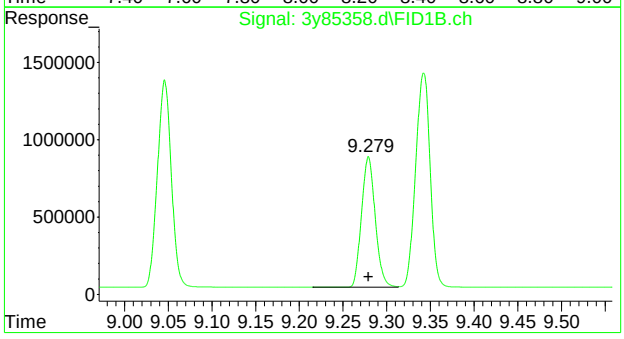
#21 Benzo(ghi)Perylene

R.T.: 20.978 min
Delta R.T.: 0.000 min
Response: 12918530
Conc: 22.31 ug/l



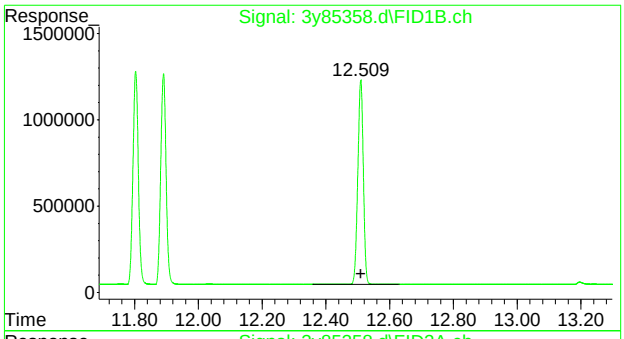
#24 2-Fluorobiphenyl (S)

R.T.: 8.232 min
Delta R.T.: 0.000 min
Response: 13348588
Conc: 22.85 ug/L



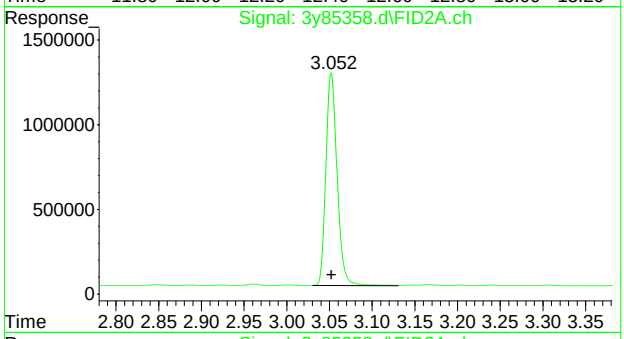
#25 2-Bromonaphthalene (S)

R.T.: 9.279 min
Delta R.T.: 0.000 min
Response: 9219424
Conc: 22.75 ug/L



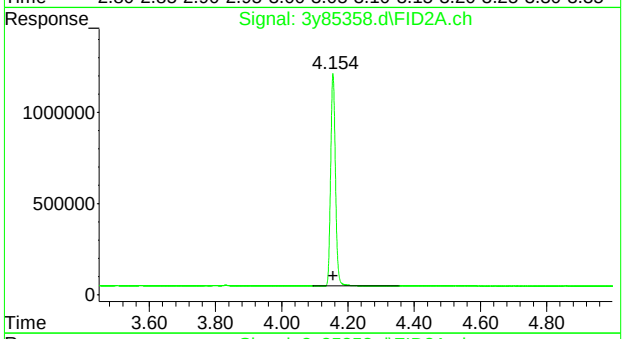
#26 o-Terphenyl (S)

R.T.: 12.509 min
Delta R.T.: 0.000 min
Response: 14225578
Conc: 22.31 ug/L



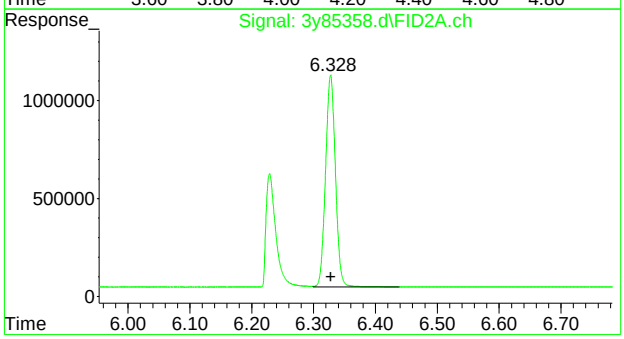
#28 C9

R.T.: 3.052 min
Delta R.T.: 0.000 min
Response: 11545948
Conc: 19.60 ug/L



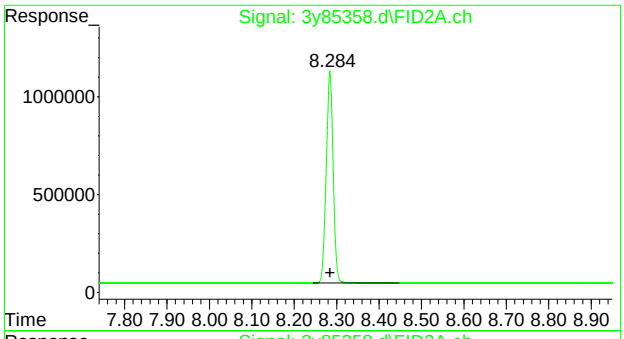
#29 C10

R.T.: 4.155 min
Delta R.T.: 0.000 min
Response: 11732011
Conc: 19.54 ug/L



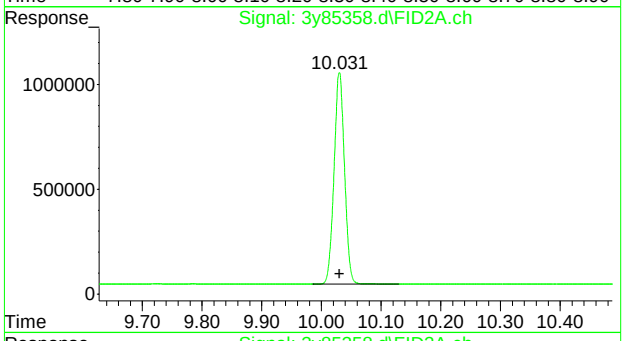
#30 C12

R.T.: 6.328 min
Delta R.T.: 0.000 min
Response: 11984225
Conc: 19.57 ug/L



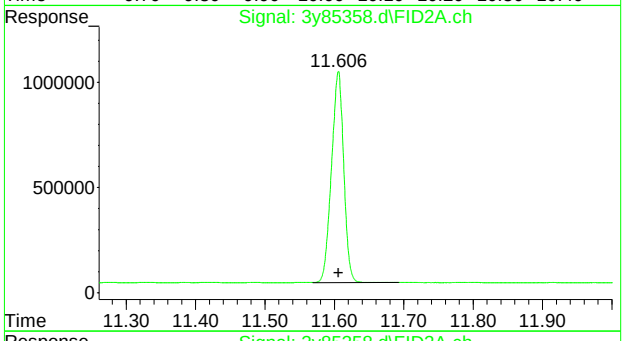
#32 C14

R.T.: 8.284 min
Delta R.T.: 0.000 min
Response: 12179599
Conc: 19.83 ug/L



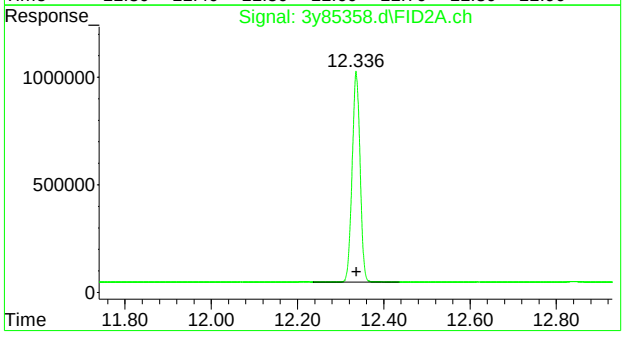
#33 C16

R.T.: 10.030 min
Delta R.T.: 0.000 min
Response: 12282877
Conc: 19.79 ug/L



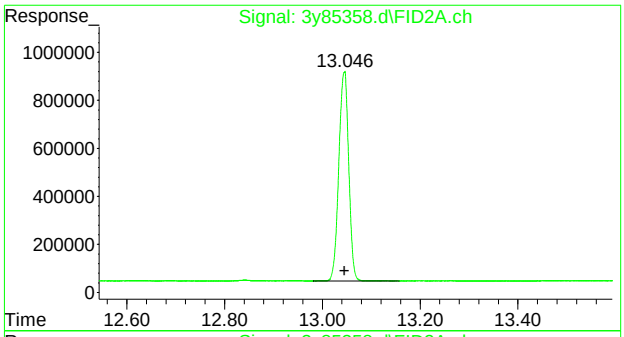
#35 C18

R.T.: 11.606 min
Delta R.T.: 0.000 min
Response: 12306310
Conc: 19.69 ug/L



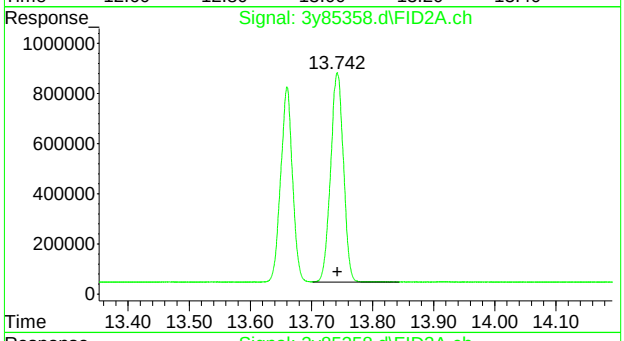
#36 C19

R.T.: 12.336 min
Delta R.T.: 0.000 min
Response: 12488762
Conc: 19.79 ug/L



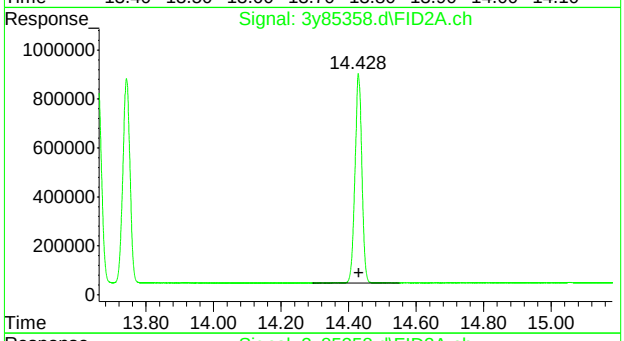
#37 C20

R.T.: 13.045 min
Delta R.T.: 0.000 min
Response: 12260979
Conc: 19.73 ug/L



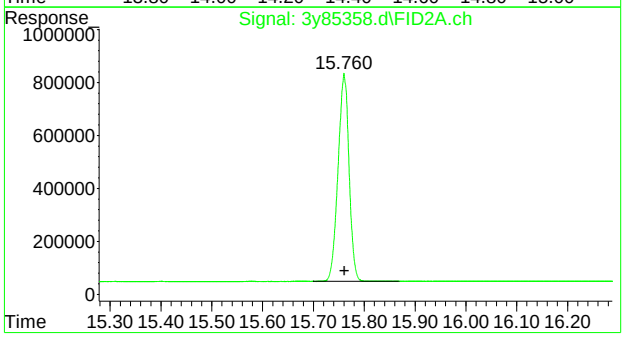
#38 C21

R.T.: 13.742 min
Delta R.T.: 0.000 min
Response: 12197782
Conc: 19.78 ug/L



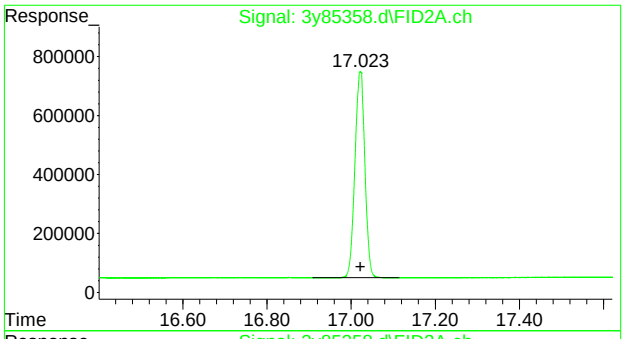
#40 C22

R.T.: 14.430 min
Delta R.T.: 0.000 min
Response: 12062393
Conc: 19.60 ug/L



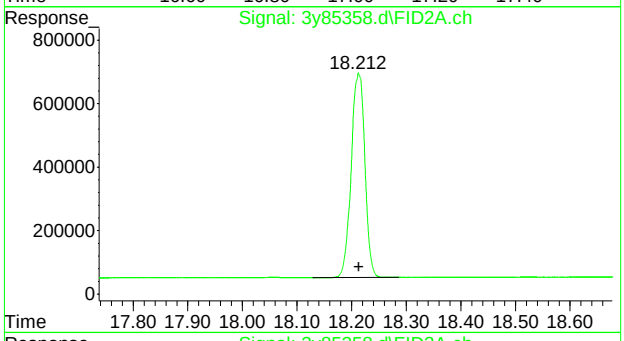
#41 C24

R.T.: 15.761 min
Delta R.T.: 0.000 min
Response: 11812883
Conc: 19.70 ug/L



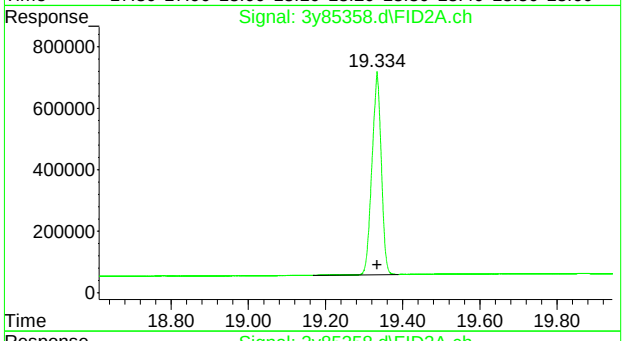
#42 C26

R.T.: 17.022 min
Delta R.T.: 0.000 min
Response: 11458070
Conc: 19.58 ug/L



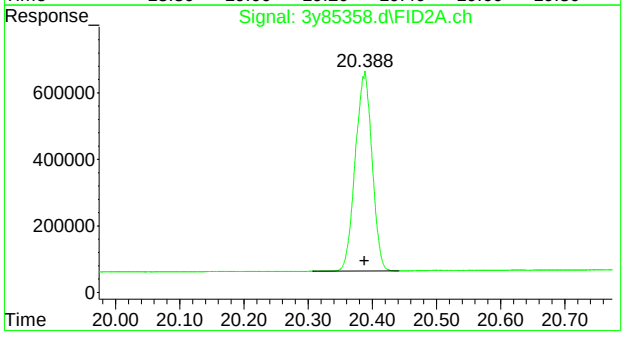
#43 C28

R.T.: 18.213 min
Delta R.T.: 0.000 min
Response: 11175964
Conc: 19.78 ug/L



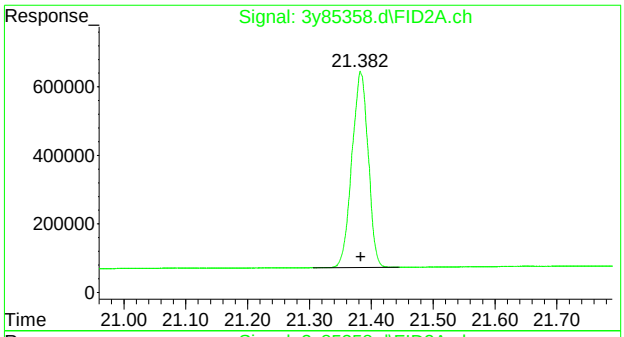
#44 C30

R.T.: 19.334 min
Delta R.T.: 0.000 min
Response: 11039254
Conc: 19.88 ug/L



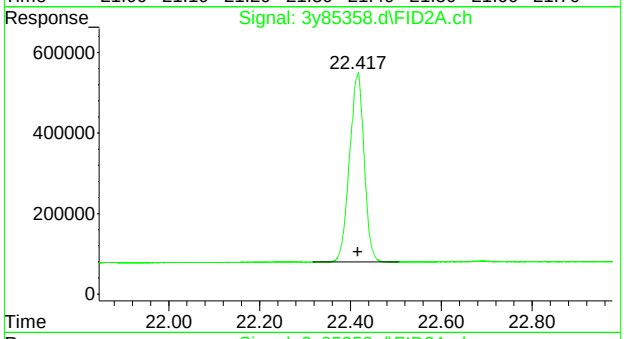
#45 C32

R.T.: 20.388 min
Delta R.T.: 0.000 min
Response: 10860044
Conc: 19.88 ug/L



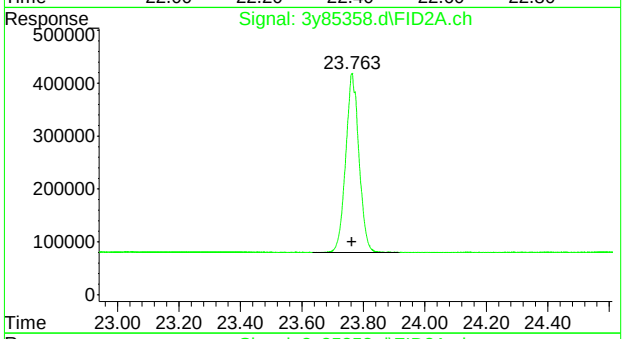
#46 C34

R.T.: 21.383 min
Delta R.T.: 0.000 min
Response: 10456042
Conc: 19.95 ug/L



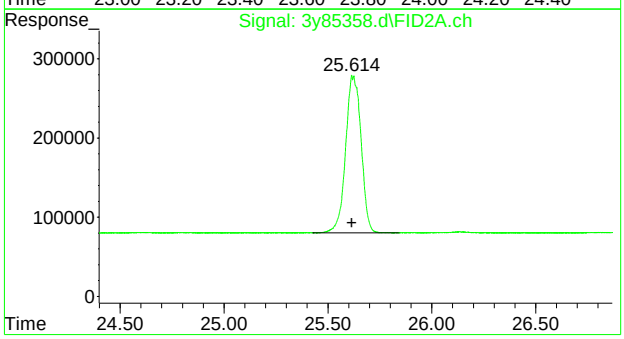
#47 C36

R.T.: 22.416 min
Delta R.T.: 0.000 min
Response: 10439727
Conc: 19.91 ug/L



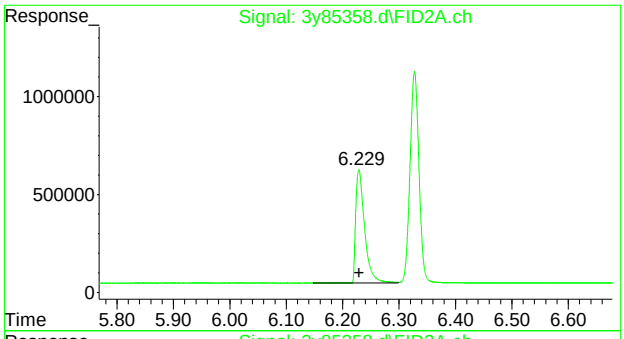
#48 C38

R.T.: 23.763 min
Delta R.T.: 0.000 min
Response: 10144723
Conc: 19.73 ug/L



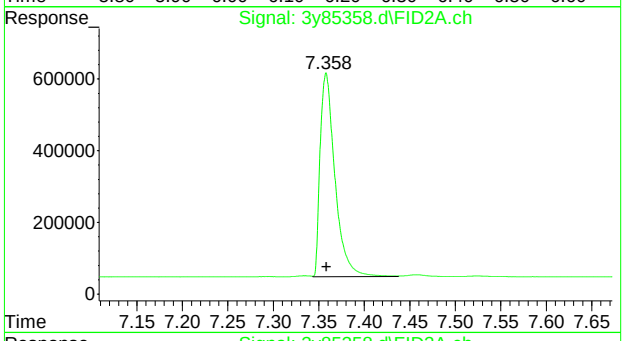
#49 C40

R.T.: 25.616 min
Delta R.T.: 0.000 min
Response: 10295645
Conc: 19.64 ug/L



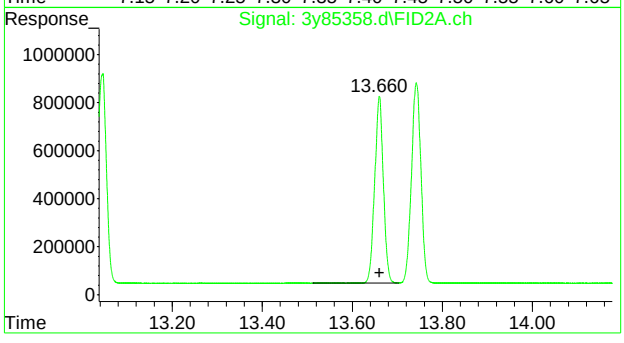
#53 Naphthalene (S)

R.T.: 6.230 min
Delta R.T.: 0.000 min
Response: 6335993
Conc: 9.84 ug/L



#54 2-Methylnaphthalene (S)

R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 6468857
Conc: 9.90 ug/L m



#55 1-Chlorooctadecane (S)

R.T.: 13.660 min
Delta R.T.: 0.000 min
Response: 10424152
Conc: 19.81 ug/L

Manual Integration Approval Summary

Sample Number:	G3Y3348-CC3347	**Method:**	MADEP EPH REV 2.1
Lab FileID:	3Y85358.D	**Analyst approved:**	09/26/22 21:56 Gertrude Lamaton
Injection Time:	09/25/22 12:08	**Supervisor approved:**	09/27/22 12:08 Gwendolyn Burns

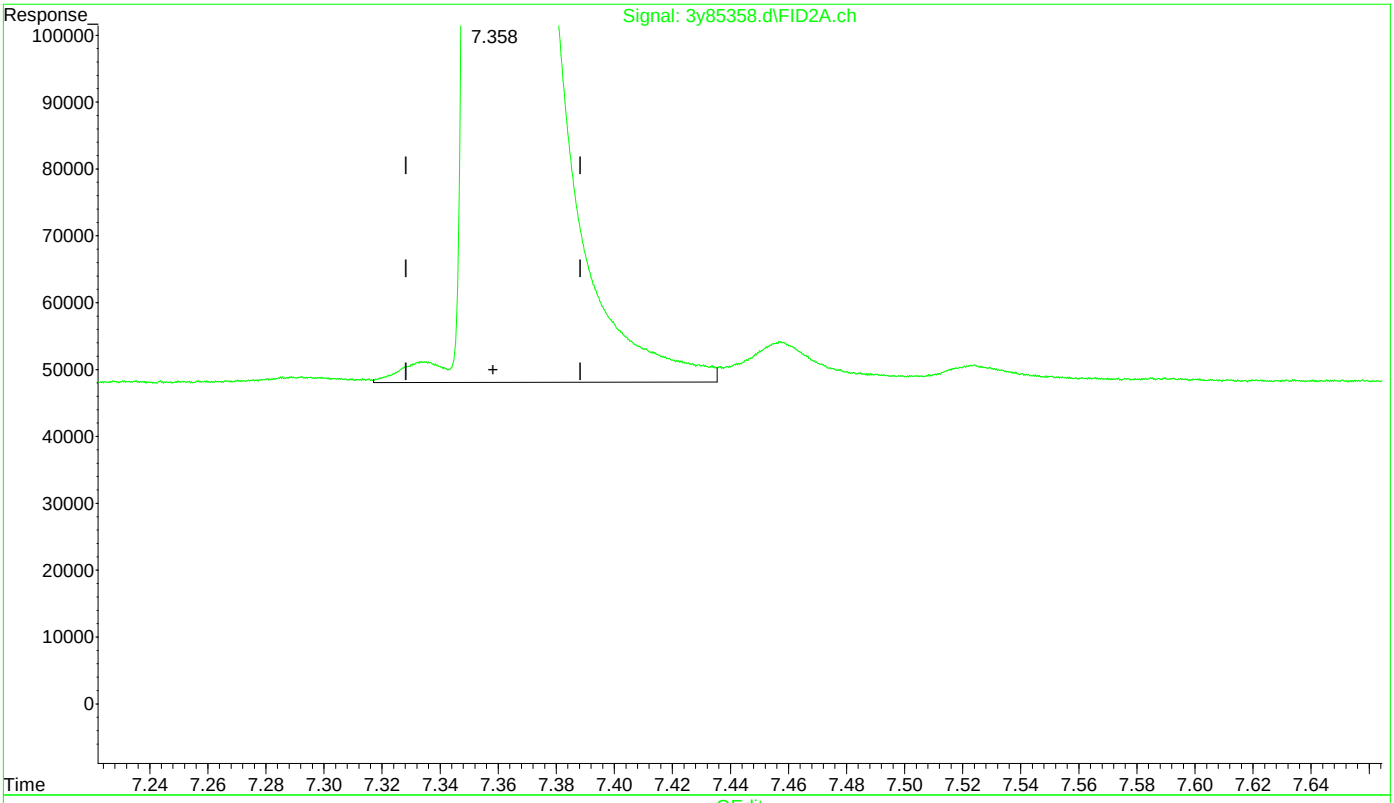
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Methylnaphthalene	91-57-6	2	7.36	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85358.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 12:08 pm
Operator : thomasl
Sample : cc3347-20
Misc : op40644,g3y3348,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:16:06 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(54) 2-Methylnaphthalene (S) (S)

7.358min 9.983 ug/L

response 6521269

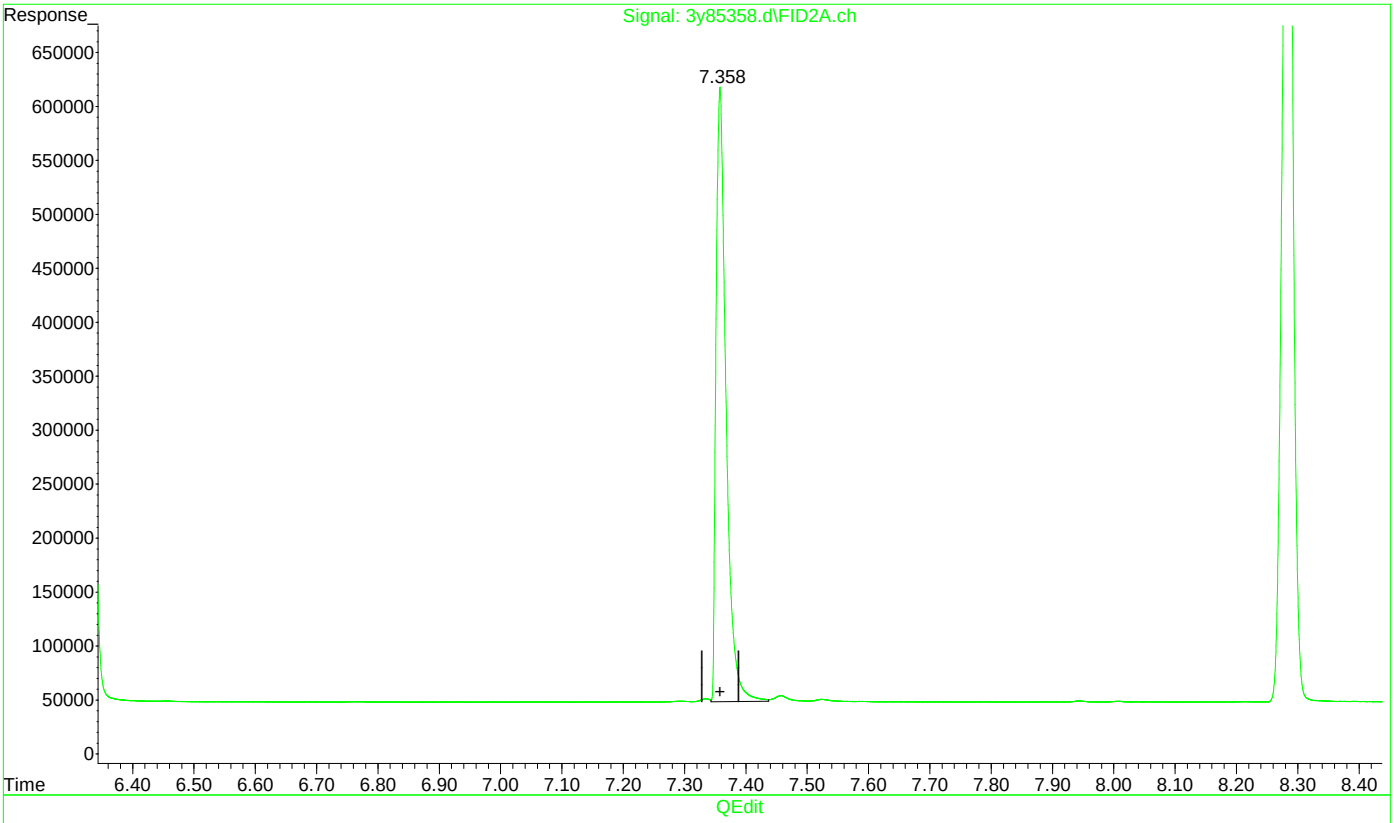
(+) = Expected Retention Time
eph3y3347.m Mon Sep 26 20:16:55 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85358.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 25 Sep 2022 12:08 pm
Operator : thomasl
Sample : cc3347-20
Misc : op40644,g3y3348,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:16:06 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(54) 2-Methylnaphthalene (S) (S)

7.358min 9.902 ug/L m

response 6468857

(+) = Expected Retention Time
eph3y3347.m Mon Sep 26 20:17:11 2022

C:\msdchem\1\data\trude\Sept 27\g3y3348\3y85358.d

Hydrocarbon Range Total Response

Data File Name	**3y85358.d**
Date Acquired	**9/25/2022 12:08**
Sample Name	**cc3347-20**

	Name	Target Response	AvgRF	CCRF	%D
1)	1,2,3-Trimethylbenzene	15271988			
2)	Naphthalene	15875107			
3)	C10-C12 Aromatics	31147096	6.75E+05	778677.3906	-15.4
4)	2-Methylnaphthalene	15492775			
5)	Acenaphthylene	14818251			
6)	Acenaphthene	15962296			
7)	C12-C16 Aromatics	46273322	678640.4343	771222.0282	-13.6
8)	Fluorene	14935439			
9)	Phenanthrene	14430207			
10)	Anthracene	14195156			
11)	Fluoranthene	13865926			
12)	Pyrene	14186853			
13)	C16-C21 Aromatics	71613582	642285.1546	716135.8155	-11.5
14)	Benzo(a)Anthracene	13454624			
15)	Chrysene	13499878			
16)	Benzo(b)Fluoranthene	13201708			
17)	Benzo(k)Fluoranthene	12802545			
18)	Benzo(a)Pyrene	12883738			
19)	Indeno(1,2,3-cd)Pyrene	12957482			
20)	Dibenzo(ah)Anthracene	13949255			
21)	Benzo(ghi)Perylene	12918530			
22)	C21-C36 Aromatics	105667761	599350.3432	660423.5074	-10.2
27)	SIGNAL #2				
28)	C9	11545948			
29)	C10	11732011			
30)	C12	11984225			
31)	C9-C12 Aliphatics	35262183	600653.6024	587703.0563	2.2
32)	C14	12179599			
33)	C16	12282877			
34)	C12-C16 Aliphatics	24462476	617472.8721	611561.8969	1.0
35)	C18	12306310			
37)	C20	12260979			
38)	C21	12197782			
39)	C16-C21 Aliphatics	36765072	621009.1871	612751.1974	1.3
40)	C22	12062393			
41)	C24	11812883			
42)	C26	11458070			
43)	C28	11175964			
44)	C30	11039254			
45)	C32	10860044			
46)	C34	10456042			
47)	C36	10439727			
48)	C38	10144722.81			
49)	C40	10295644.75			
50)	C21-C40 Aliphatics	109744742.9	555452.5925	548723.7145	1.2
	For MAEPH				
23)	C11-C22 Aromatics (Unadj.)	239429772)	631209)	704205)	-11.6
36)	C19	12488762.4			
51)	C9-C18 Aliphatics	72030969.69	610324.8207	600258.0808	1.6
52)	C19-C36 Aliphatics	92738031.64	587241.5002	579612.6978	1.3

Manual Integrations
APPROVED
(compounds with "m" flag)
Gwendolyn Burns
09/27/22 12:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 2:33 am
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:54:23 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
24) S	2-Fluorobiphenyl (S)	8.236	28126375	48.153	ug/L	
25) S	2-Bromonaphthalene (S)	9.284	19456324	48.007	ug/L	
26) S	o-Terphenyl (S)	12.513	30740653	48.218	ug/L	
53) S	Naphthalene (S)	6.230	16213934	25.192	ug/L	m
54) S	2-Methylnaphthalene (S)	7.358	16579585	25.380	ug/L	m
55) S	1-Chlorooctadecane (S)	13.661	26836134	50.992	ug/L	
Target Compounds						
1) T	1,2,3-Trimethylbenzene	4.633	32443454	49.040	ug/l	
2) T	Naphthalene	6.461	33495685	48.657	ug/L	
4) T	2-Methylnaphthalene	7.591	32782224	48.541	ug/L	
5) T	Acenaphthylene	9.051	31193408	47.364	ug/l	
6) T	Acenaphthene	9.349	33570579	47.823	ug/l	
8) T	Fluorene	10.217	31785829	47.972	ug/l	
9) T	Phenanthrene	11.809	31137272	48.351	ug/l	
10) T	Anthracene	11.897	30709252	47.916	ug/l	
11) T	Fluoranthene	13.847	30129304	48.298	ug/l	
12) T	Pyrene	14.231	30937539	48.330	ug/l	
14) T	Benzo(a)Anthracene	16.479	30173907	48.711	ug/l	
15) T	Chrysene	16.545	30236326	48.967	ug/l	
16) T	Benzo(b)Fluoranthene	18.407	29869018	49.516	ug/l	
17) T	Benzo(k)Fluoranthene	18.458	28777819	49.185	ug/l	
18) T	Benzo(a)Pyrene	18.931	29000818	49.498	ug/l	
19) T	Indeno(1,2,3-cd)Pyrene	20.642	29240017	50.433	ug/l	
20) T	Dibenzo(ah)Anthracene	20.695	30741086	49.191	ug/l	
21) T	Benzo(ghi)Perylene	20.996	29031279	50.144	ug/l	
28) T	C9	3.055	28653103	48.645	ug/L	
29) T	C10	4.157	29576257	49.250	ug/L	
30) T	C12	6.330	30408769	49.655	ug/L	
32) T	C14	8.286	31031645	50.519	ug/L	
33) T	C16	10.033	31351540	50.511	ug/L	
35) T	C18	11.608	31664227	50.659	ug/L	
36) T	C19	12.340	32092469	50.860	ug/L	
37) T	C20	13.047	31525254	50.730	ug/L	
38) T	C21	13.746	31327726	50.811	ug/L	
40) T	C22	14.432	31046628	50.438	ug/L	
41) T	C24	15.762	30385692	50.669	ug/L	
42) T	C26	17.024	29532463	50.455	ug/L	
43) T	C28	18.214	28930850	51.193	ug/L	
44) T	C30	19.337	28633774	51.555	ug/L	
45) T	C32	20.390	28469699	52.110	ug/L	
46) T	C34	21.385	27536927	52.530	ug/L	
47) T	C36	22.418	27703252	52.826	ug/L	
48) T	C38	23.767	26954683	52.414	ug/L	
49) T	C40	25.633	27475772	52.416	ug/L	

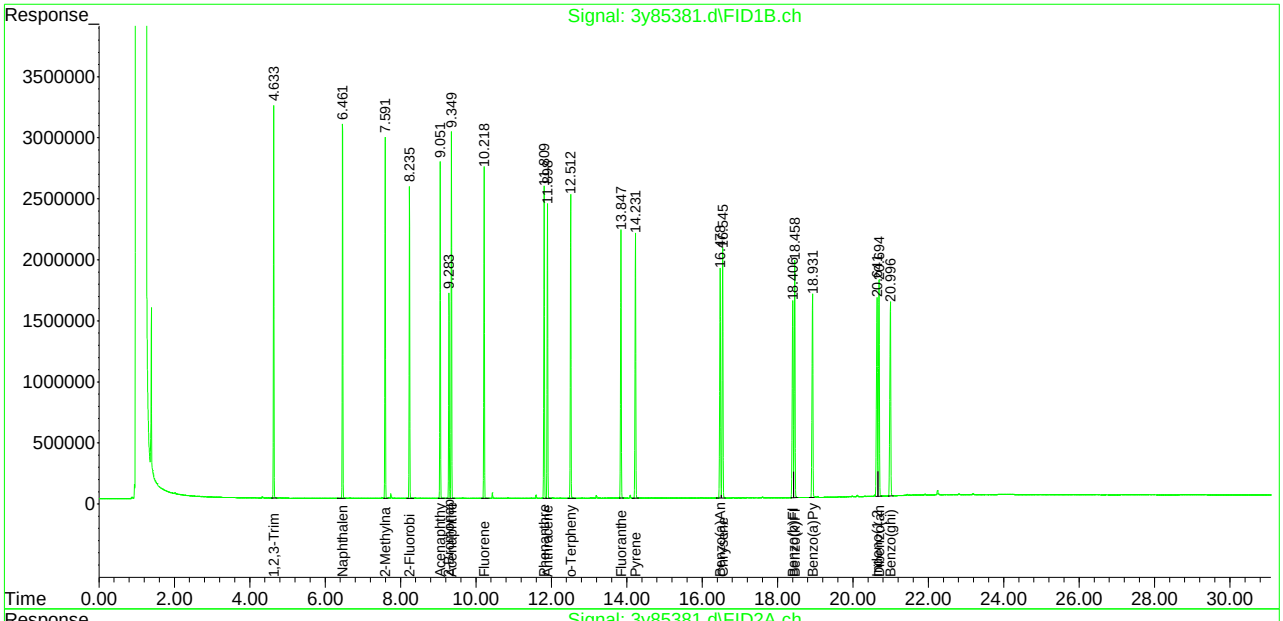
(f)=RT Delta > 1/2 Window (m)=manual int.

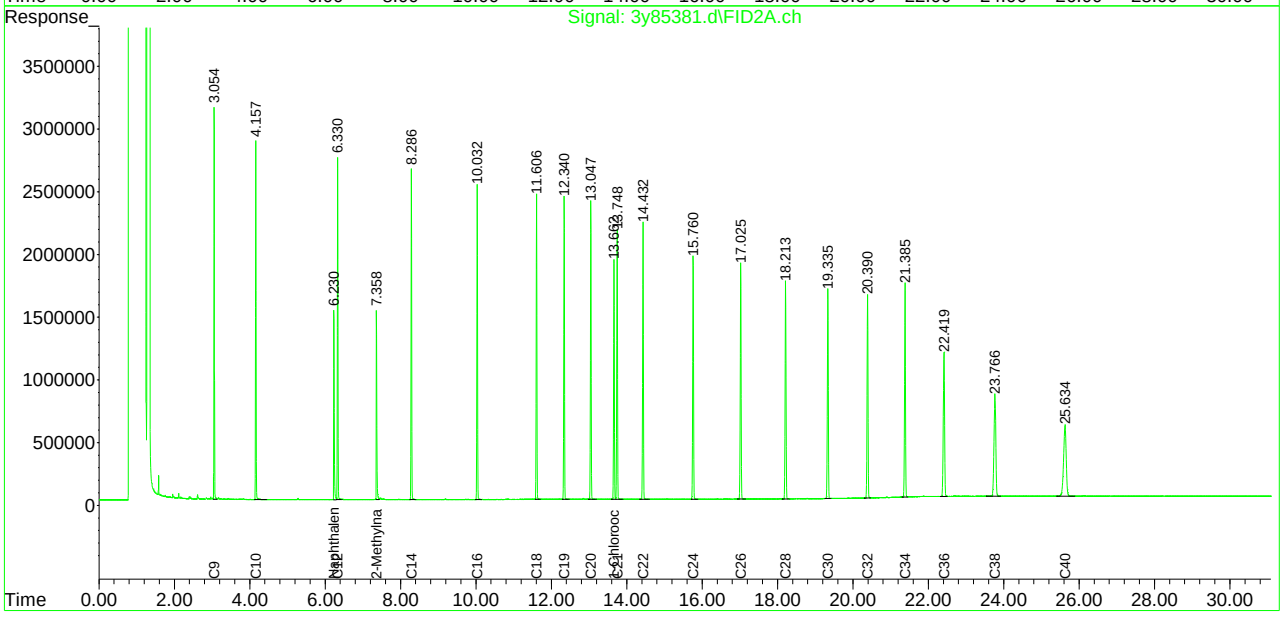
Quantitation Report (QT Reviewed)

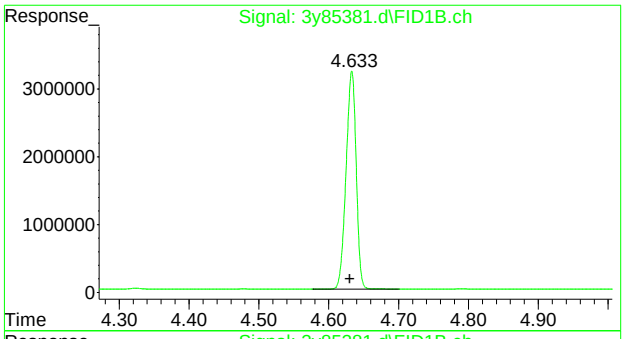
Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 2:33 am
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:54:23 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

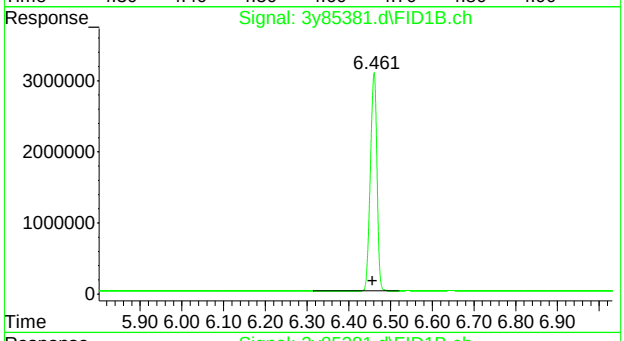






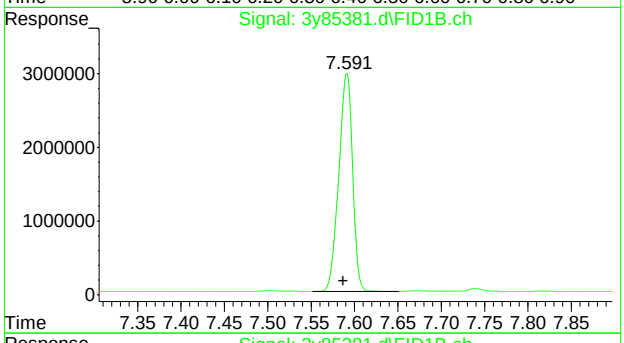
#1 1,2,3-Trimethylbenzene

R.T.: 4.633 min
Delta R.T.: 0.003 min
Response: 32443454
Conc: 49.04 ug/l



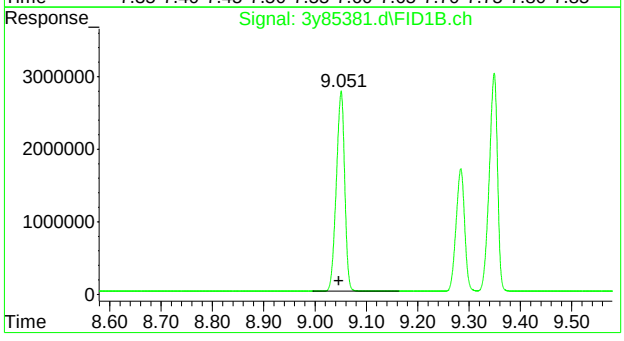
#2 Naphthalene

R.T.: 6.461 min
Delta R.T.: 0.004 min
Response: 33495685
Conc: 48.66 ug/L



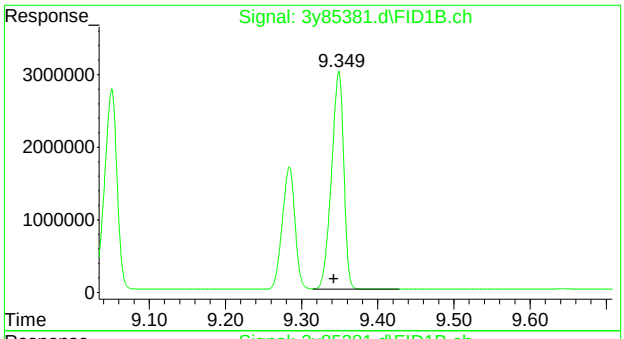
#4 2-Methylnaphthalene

R.T.: 7.591 min
Delta R.T.: 0.005 min
Response: 32782224
Conc: 48.54 ug/L



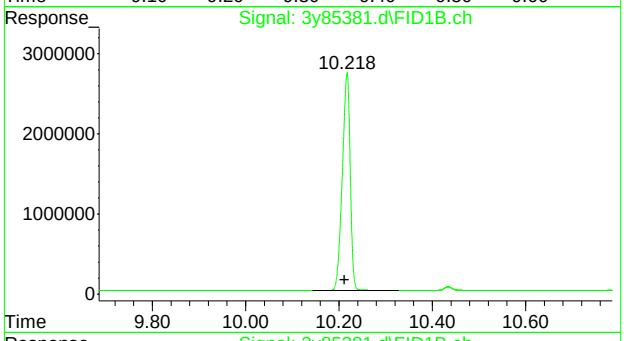
#5 Acenaphthylene

R.T.: 9.051 min
Delta R.T.: 0.005 min
Response: 31193408
Conc: 47.36 ug/l



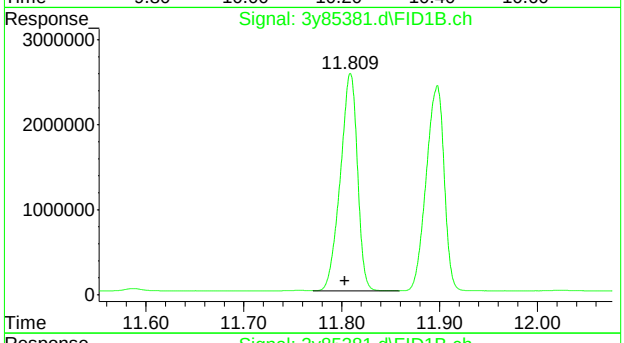
#6 Acenaphthene

R.T.: 9.349 min
Delta R.T.: 0.007 min
Response: 33570579
Conc: 47.82 ug/l



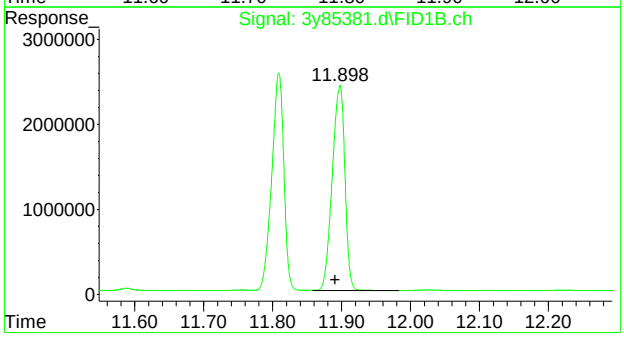
#8 Fluorene

R.T.: 10.217 min
Delta R.T.: 0.006 min
Response: 31785829
Conc: 47.97 ug/l



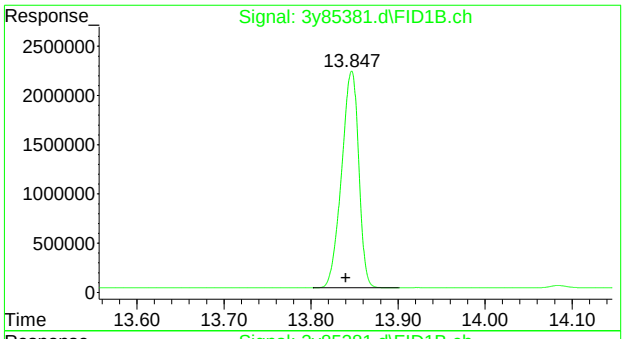
#9 Phenanthrene

R.T.: 11.809 min
Delta R.T.: 0.005 min
Response: 31137272
Conc: 48.35 ug/l



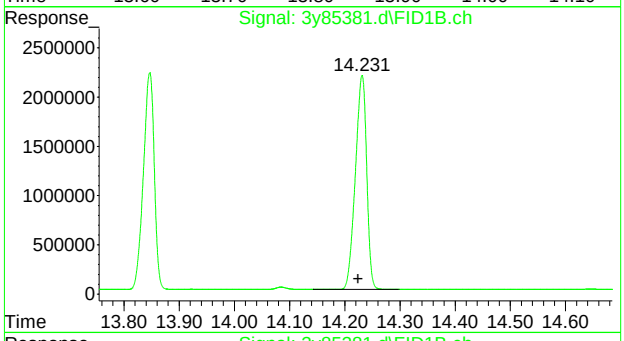
#10 Anthracene

R.T.: 11.897 min
Delta R.T.: 0.007 min
Response: 30709252
Conc: 47.92 ug/l



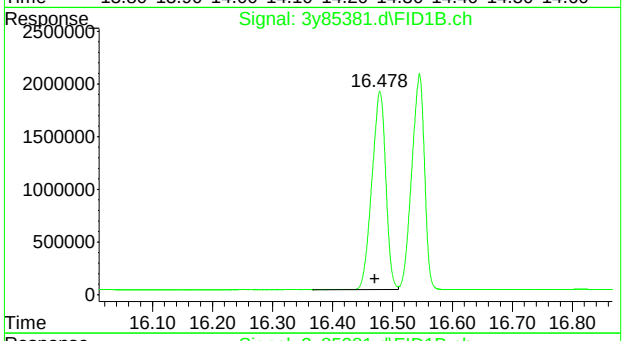
#11 Fluoranthene

R.T.: 13.847 min
Delta R.T.: 0.007 min
Response: 30129304
Conc: 48.30 ug/l



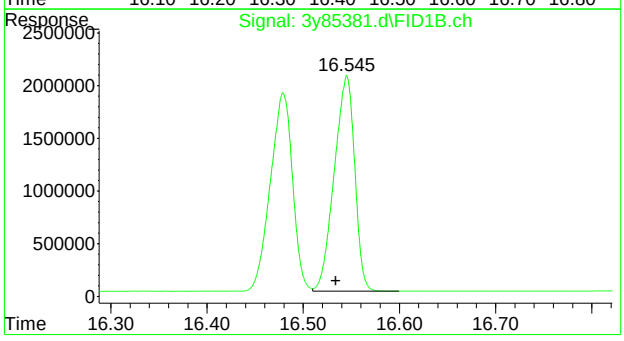
#12 Pyrene

R.T.: 14.231 min
Delta R.T.: 0.007 min
Response: 30937539
Conc: 48.33 ug/l



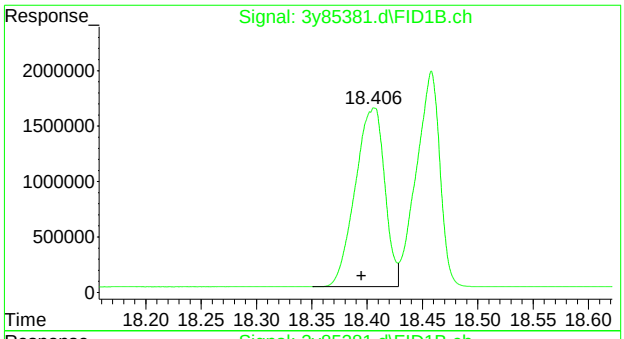
#14 Benzo(a)Anthracene

R.T.: 16.479 min
Delta R.T.: 0.009 min
Response: 30173907
Conc: 48.71 ug/l



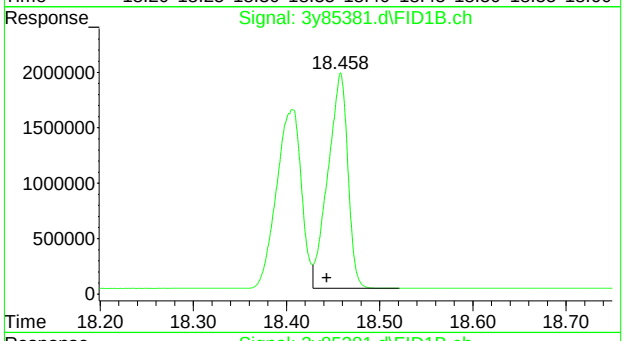
#15 Chrysene

R.T.: 16.545 min
Delta R.T.: 0.011 min
Response: 30236326
Conc: 48.97 ug/l



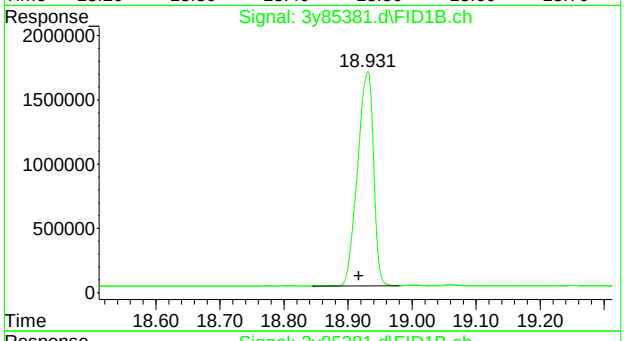
#16 Benzo(b)Fluoranthene

R.T.: 18.407 min
Delta R.T.: 0.012 min
Response: 29869018
Conc: 49.52 ug/l



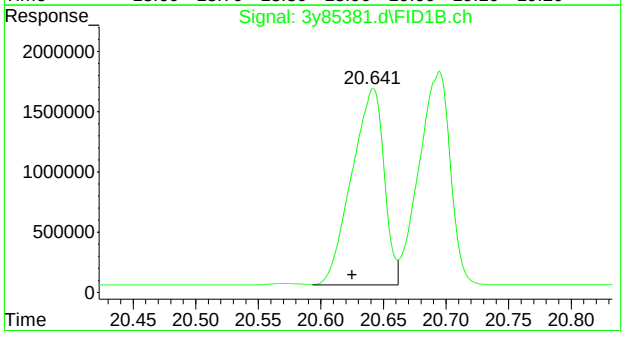
#17 Benzo(k)Fluoranthene

R.T.: 18.458 min
Delta R.T.: 0.015 min
Response: 28777819
Conc: 49.18 ug/l



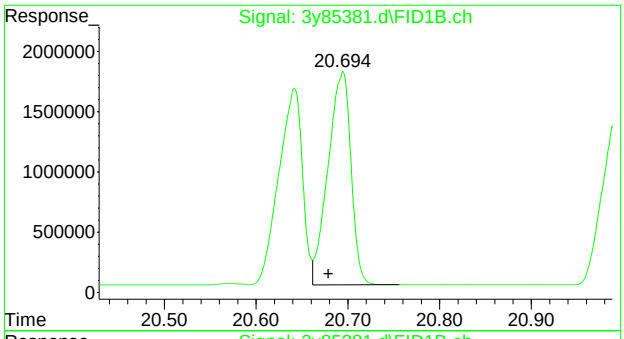
#18 Benzo(a)Pyrene

R.T.: 18.931 min
Delta R.T.: 0.014 min
Response: 29000818
Conc: 49.50 ug/l



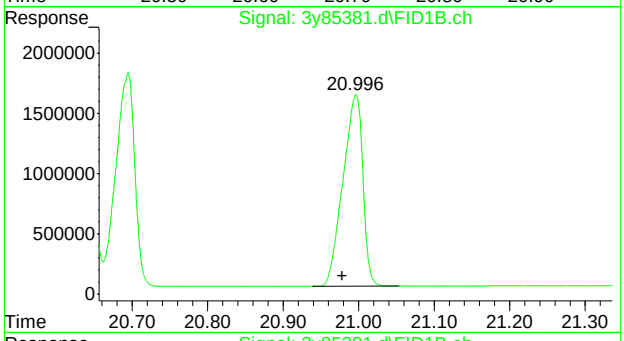
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.642 min
Delta R.T.: 0.017 min
Response: 29240017
Conc: 50.43 ug/l



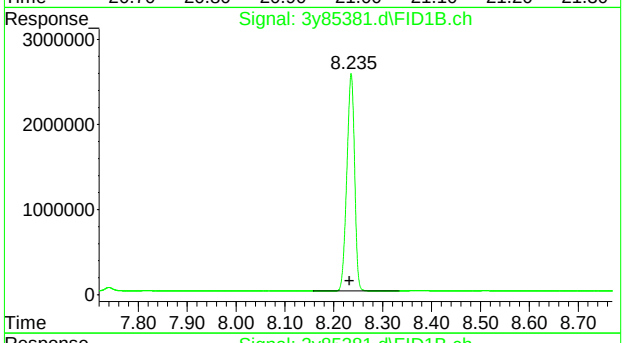
#20 Dibenzo(ah)Anthracene

R.T.: 20.695 min
Delta R.T.: 0.016 min
Response: 30741086
Conc: 49.19 ug/l



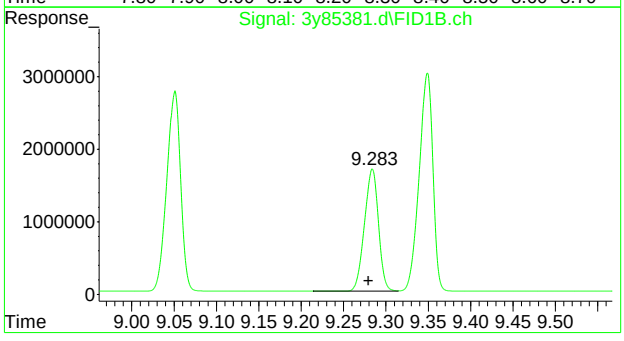
#21 Benzo(ghi)Perylene

R.T.: 20.996 min
Delta R.T.: 0.018 min
Response: 29031279
Conc: 50.14 ug/l



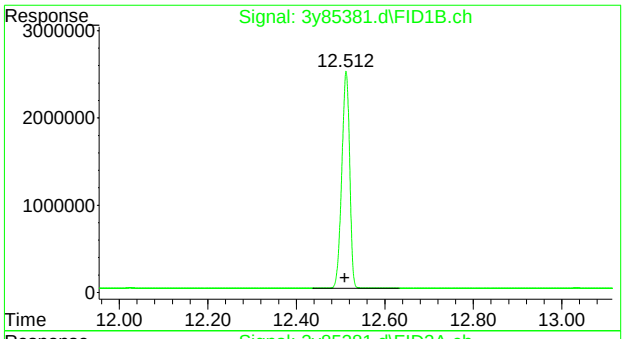
#24 2-Fluorobiphenyl (S)

R.T.: 8.236 min
Delta R.T.: 0.004 min
Response: 28126375
Conc: 48.15 ug/L



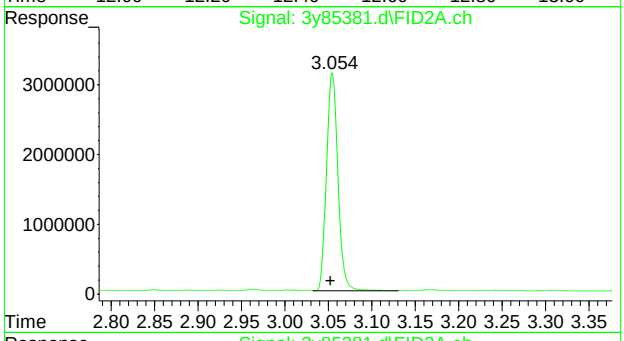
#25 2-Bromonaphthalene (S)

R.T.: 9.284 min
Delta R.T.: 0.005 min
Response: 19456324
Conc: 48.01 ug/L



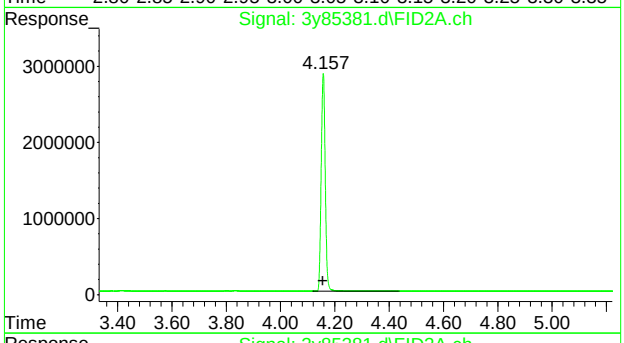
#26 o-Terphenyl (S)

R.T.: 12.513 min
Delta R.T.: 0.003 min
Response: 30740653
Conc: 48.22 ug/L



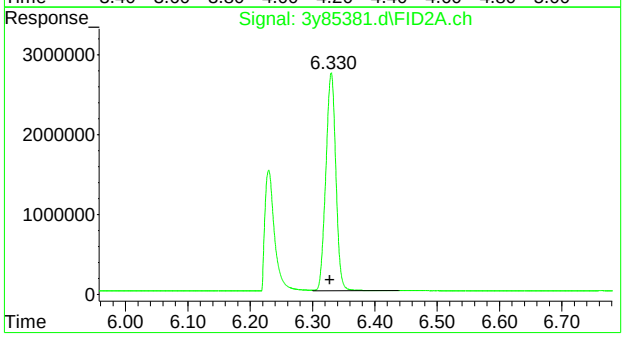
#28 C9

R.T.: 3.055 min
Delta R.T.: 0.002 min
Response: 28653103
Conc: 48.64 ug/L



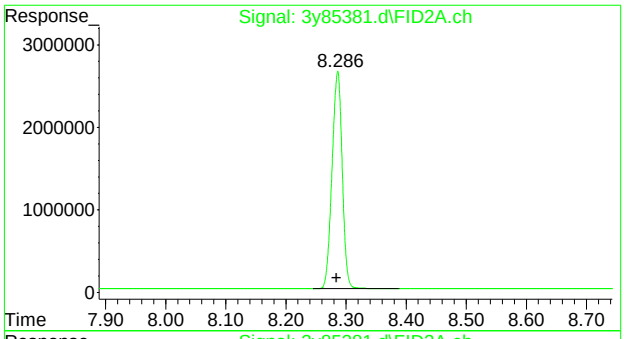
#29 C10

R.T.: 4.157 min
Delta R.T.: 0.002 min
Response: 29576257
Conc: 49.25 ug/L



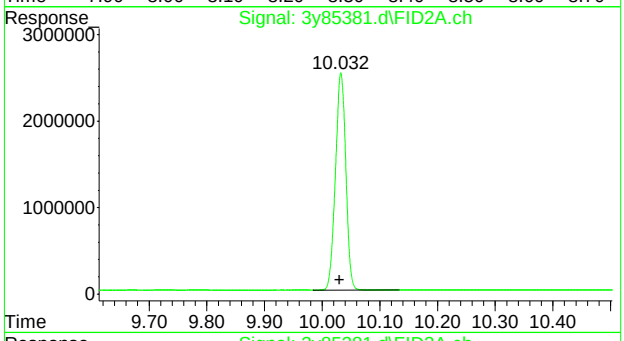
#30 C12

R.T.: 6.330 min
Delta R.T.: 0.002 min
Response: 30408769
Conc: 49.65 ug/L



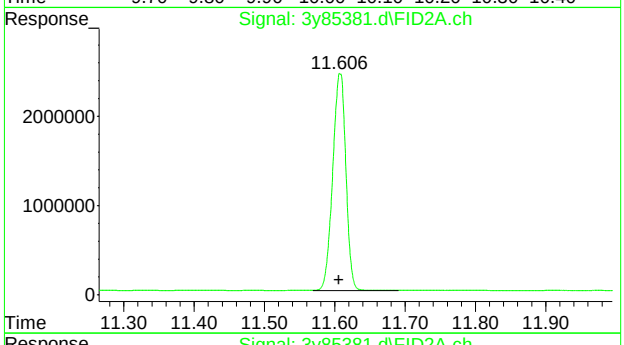
#32 C14

R.T.: 8.286 min
Delta R.T.: 0.002 min
Response: 31031645
Conc: 50.52 ug/L



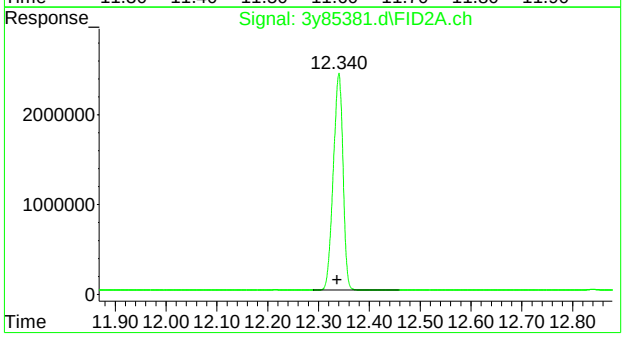
#33 C16

R.T.: 10.033 min
Delta R.T.: 0.002 min
Response: 31351540
Conc: 50.51 ug/L



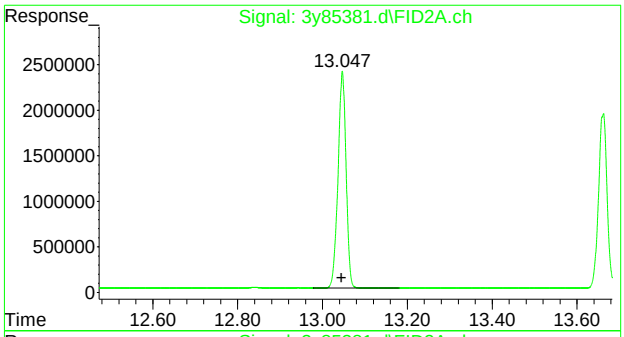
#35 C18

R.T.: 11.608 min
Delta R.T.: 0.002 min
Response: 31664227
Conc: 50.66 ug/L



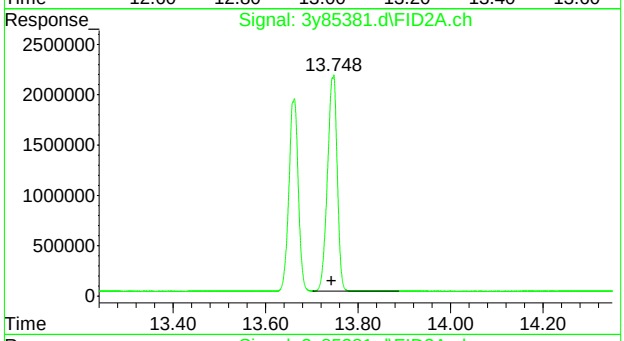
#36 C19

R.T.: 12.340 min
Delta R.T.: 0.004 min
Response: 32092469
Conc: 50.86 ug/L



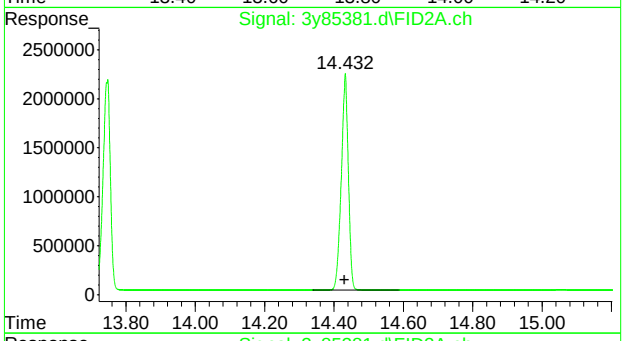
#37 C20

R.T.: 13.047 min
Delta R.T.: 0.002 min
Response: 31525254
Conc: 50.73 ug/L



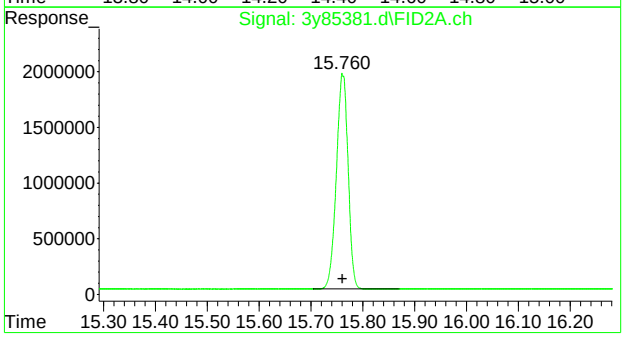
#38 C21

R.T.: 13.746 min
Delta R.T.: 0.004 min
Response: 31327726
Conc: 50.81 ug/L



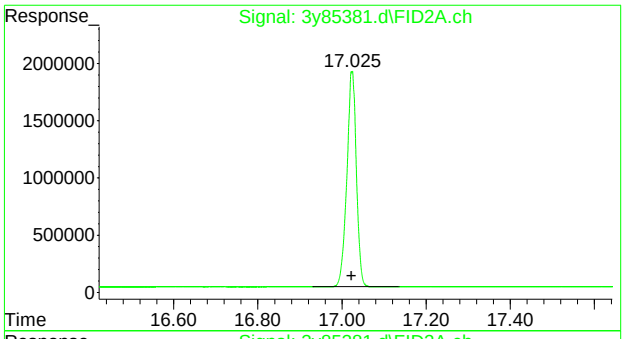
#40 C22

R.T.: 14.432 min
Delta R.T.: 0.003 min
Response: 31046628
Conc: 50.44 ug/L



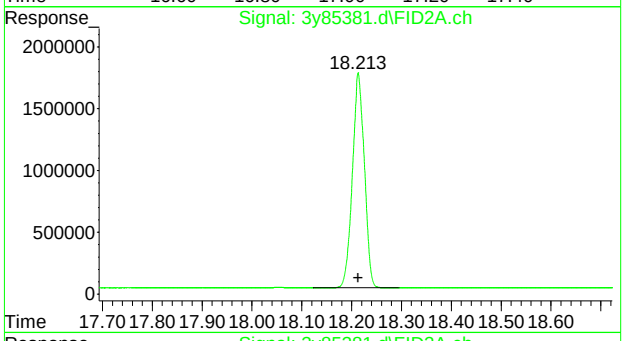
#41 C24

R.T.: 15.762 min
Delta R.T.: 0.001 min
Response: 30385692
Conc: 50.67 ug/L



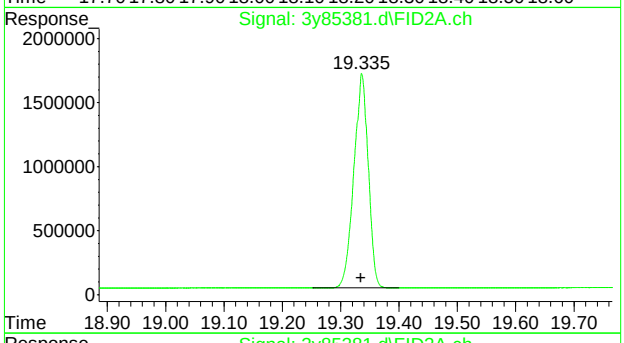
#42 C26

R.T.: 17.024 min
Delta R.T.: 0.002 min
Response: 29532463
Conc: 50.45 ug/L



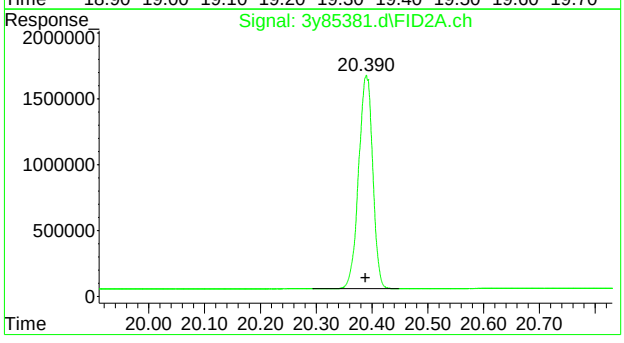
#43 C28

R.T.: 18.214 min
Delta R.T.: 0.000 min
Response: 28930850
Conc: 51.19 ug/L



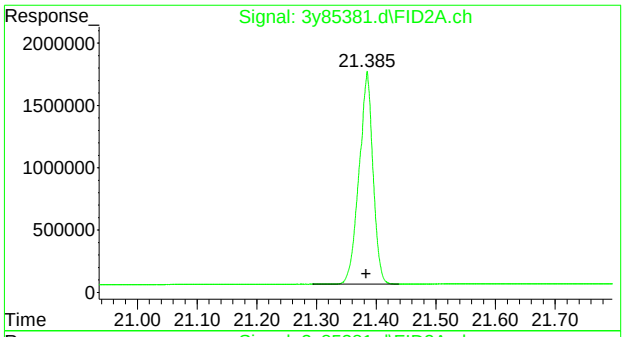
#44 C30

R.T.: 19.337 min
Delta R.T.: 0.003 min
Response: 28633774
Conc: 51.56 ug/L



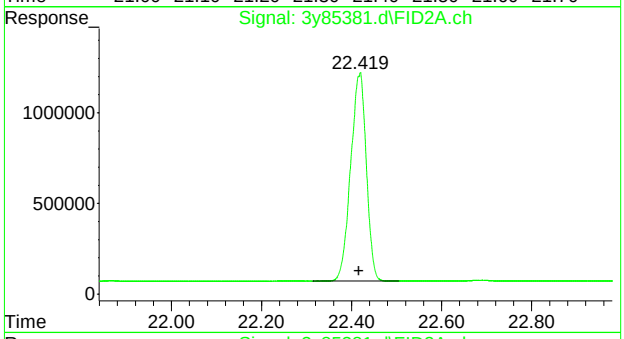
#45 C32

R.T.: 20.390 min
Delta R.T.: 0.002 min
Response: 28469699
Conc: 52.11 ug/L



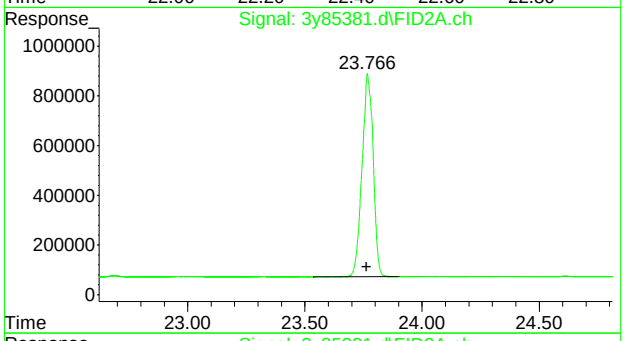
#46 C34

R.T.: 21.385 min
Delta R.T.: 0.002 min
Response: 27536927
Conc: 52.53 ug/L



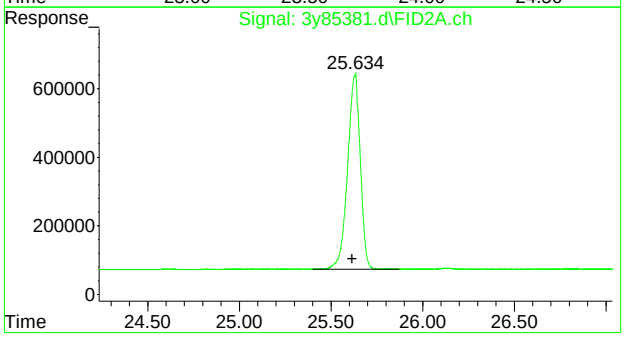
#47 C36

R.T.: 22.418 min
Delta R.T.: 0.002 min
Response: 27703252
Conc: 52.83 ug/L



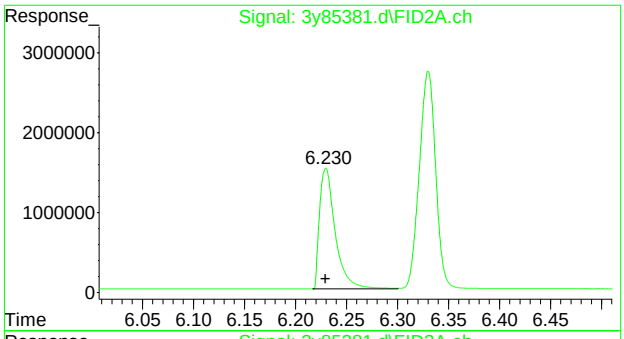
#48 C38

R.T.: 23.767 min
Delta R.T.: 0.004 min
Response: 26954683
Conc: 52.41 ug/L



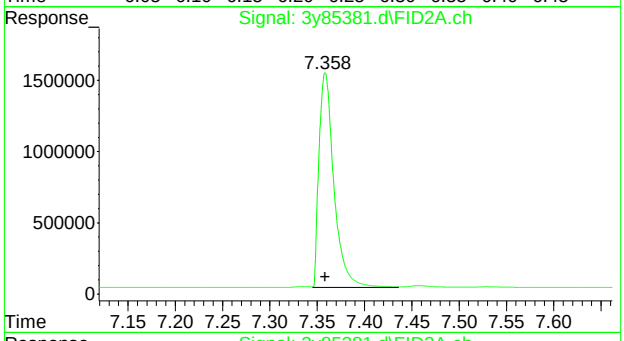
#49 C40

R.T.: 25.633 min
Delta R.T.: 0.017 min
Response: 27475772
Conc: 52.42 ug/L



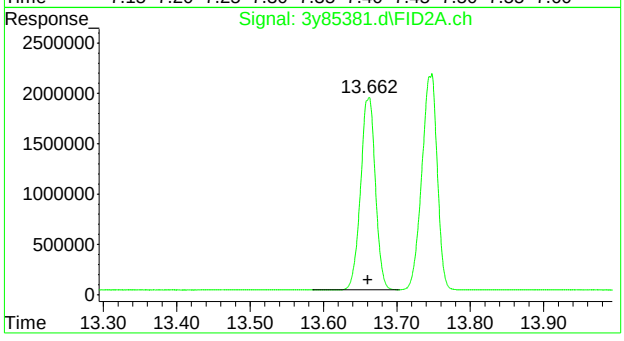
#53 Naphthalene (S)

R.T.: 6.230 min
Delta R.T.: 0.000 min
Response: 16213934
Conc: 25.19 ug/L m



#54 2-Methylnaphthalene (S)

R.T.: 7.358 min
Delta R.T.: 0.000 min
Response: 16579585
Conc: 25.38 ug/L m



#55 1-Chlorooctadecane (S)

R.T.: 13.661 min
Delta R.T.: 0.001 min
Response: 26836134
Conc: 50.99 ug/L

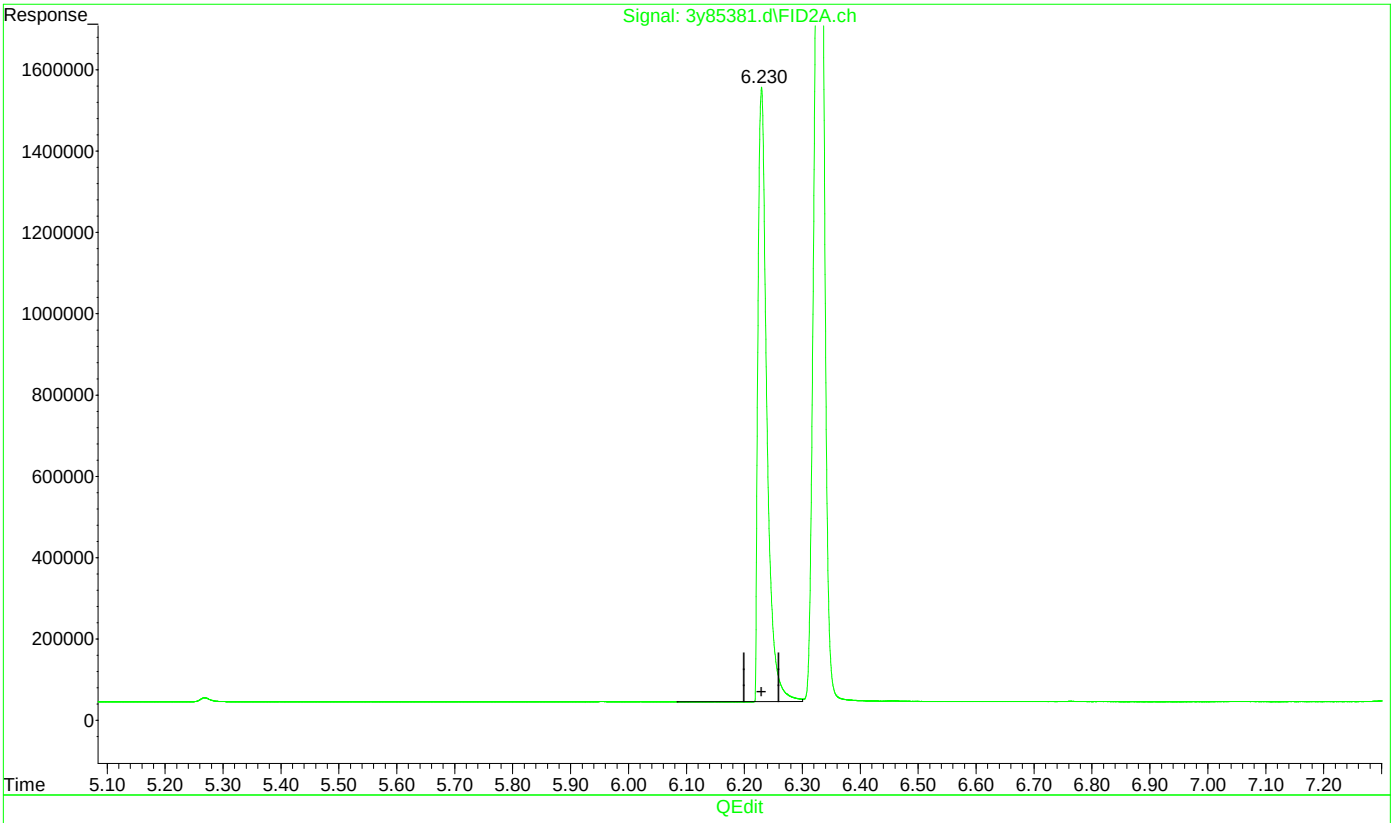
Manual Integration Approval Summary

Sample Number:	G3Y3348-CC3347	**Method:**	MADEP EPH REV 2.1
Lab FileID:	3Y85381.D	**Analyst approved:**	09/26/22 21:56 Gertrude Lamaton
Injection Time:	09/26/22 02:33	**Supervisor approved:**	09/27/22 12:08 Gwendolyn Burns

Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3	2	6.23	Poorly defined baseline
2-Methylnaphthalene	91-57-6	2	7.36	Poorly defined baseline

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022   2:33 am
Operator  : thomasl
Sample    : cc3347-50
Misc      : op41903,g3y3348,15.0,,,2,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:48 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(53) Naphthalene (S) (S)

6.230min 25.062 ug/L

response 16129893

(+) = Expected Retention Time

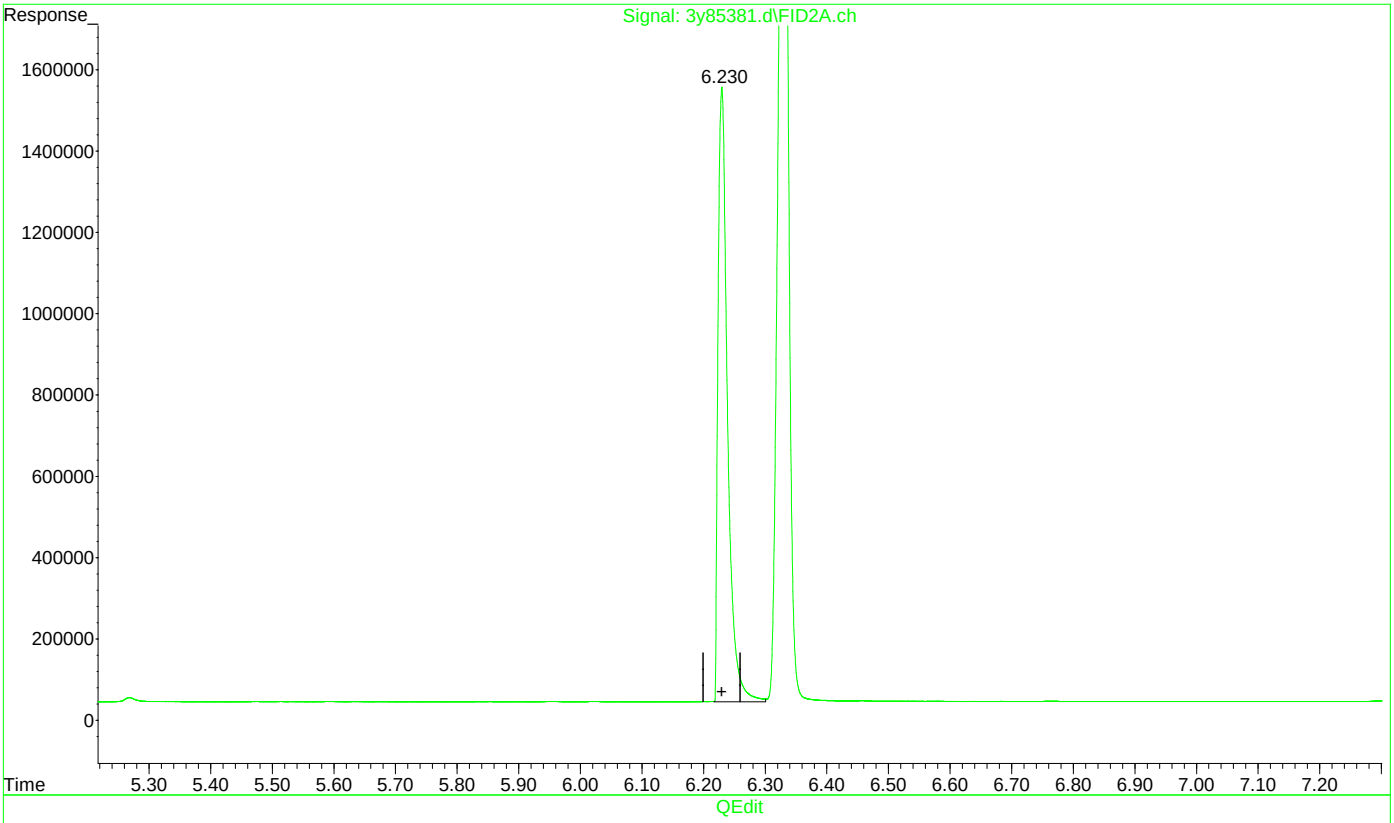
eph3y3347.m Mon Sep 26 20:44:38 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 2:33 am
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:48 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(53) Naphthalene (S) (S)

6.230min 25.192 ug/L m

response 16213934

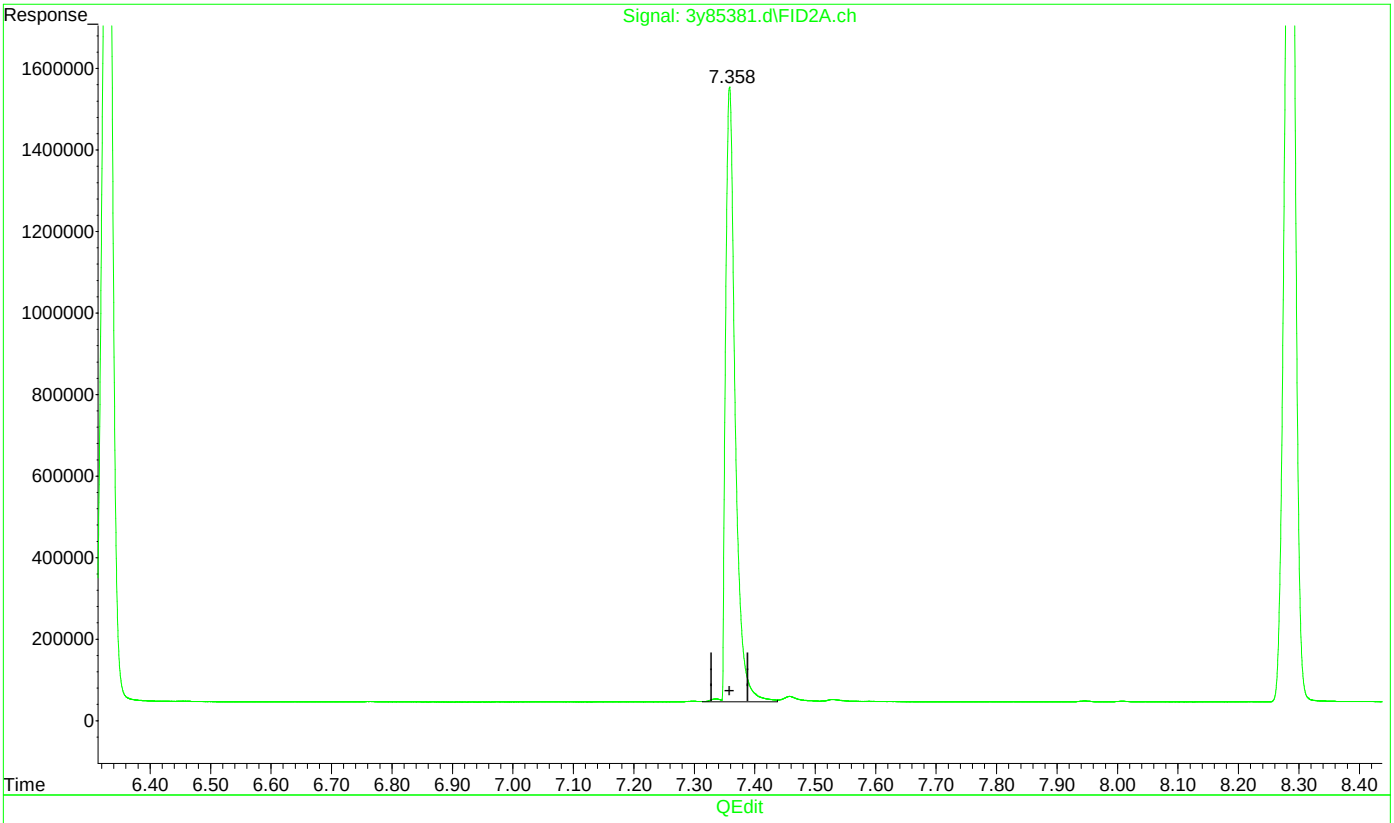
(+) = Expected Retention Time
eph3y3347.m Mon Sep 26 20:44:50 2022

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 26 Sep 2022 2:33 am
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3348,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:48 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(54) 2-Methylnaphthalene (S) (S)

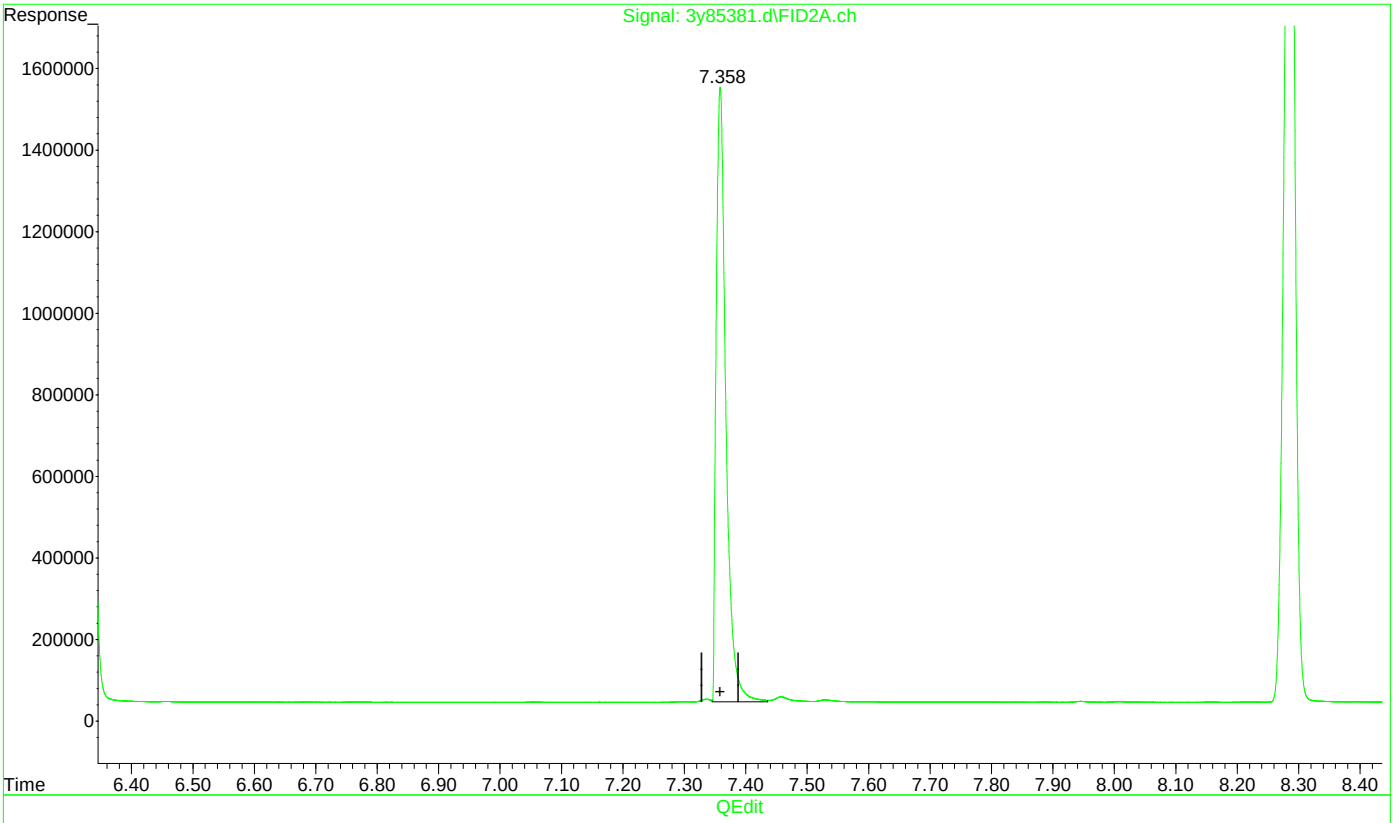
7.359min 25.589 ug/L

response 16715951

(+) = Expected Retention Time
eph3y3347.m Mon Sep 26 20:44:53 2022

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\trude\Sept 27\g3y3348\
Data File : 3y85381.d
Signal(s) : Signal #1: FID1B.ch  Signal #2: FID2A.ch
Acq On    : 26 Sep 2022   2:33 am
Operator  : thomasl
Sample    : cc3347-50
Misc      : op41903,g3y3348,15.0,,,2,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 26 20:43:48 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title  : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Mon Sep 26 20:15:46 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj.     : 1ul/col
Signal #1 Phase : HP5                Signal #2 Phase: HP5
Signal #1 Info  : 30mx.25mm.x.25um   Signal #2 Info : 30mx.32mm.x25um
```



(54) 2-Methylnaphthalene (S) (S)

7.358min 25.380 ug/L m

response 16579585

(+) = Expected Retention Time

eph3y3347.m Mon Sep 26 20:45:02 2022

C:\msdchem\1\data\trude\Sept 27\g3y3348\3y85381.d

Hydrocarbon Range Total Response

Data File Name	**3y85381.d**
Date Acquired	**9/26/2022 2:33**
Sample Name	**cc3347-50**

	Name	Target Response	AvgRF	CCRF	%D
1)	1,2,3-Trimethylbenzene	32443454			
2)	Naphthalene	33495685			
3)	C10-C12 Aromatics	65939140	6.75E+05	659391.3953	2.3
4)	2-Methylnaphthalene	32782224			
5)	Acenaphthylene	31193408			
6)	Acenaphthene	33570579			
7)	C12-C16 Aromatics	97546211	678640.4343	650308.0735	4.2
8)	Fluorene	31785829			
9)	Phenanthrene	31137272			
10)	Anthracene	30709252			
11)	Fluoranthene	30129304			
12)	Pyrene	30937539			
13)	C16-C21 Aromatics	154699196	642285.1546	618796.7831	3.7
14)	Benzo(a)Anthracene	30173907			
15)	Chrysene	30236326			
16)	Benzo(b)Fluoranthene	29869018			
17)	Benzo(k)Fluoranthene	28777819			
18)	Benzo(a)Pyrene	29000818			
19)	Indeno(1,2,3-cd)Pyrene	29240017			
20)	Dibenzo(ah)Anthracene	30741086			
21)	Benzo(ghi)Perylene	29031279			
22)	C21-C36 Aromatics	237070269	599350.3432	592675.673	1.1
27)	SIGNAL #2				
28)	C9	28653103			
29)	C10	29576257			
30)	C12	30408769			
31)	C9-C12 Aliphatics	88638129	600653.6024	590920.8604	1.6
32)	C14	31031645			
33)	C16	31351540			
34)	C12-C16 Aliphatics	62383185	617472.8721	623831.8495	-1.0
35)	C18	31664227			
37)	C20	31525254			
38)	C21	31327726			
39)	C16-C21 Aliphatics	94517208	621009.1871	630114.7201	-1.5
40)	C22	31046628			
41)	C24	30385692			
42)	C26	29532463			
43)	C28	28930850			
44)	C30	28633774			
45)	C32	28469699			
46)	C34	27536927			
47)	C36	27703252			
48)	C38	26954682.64			
49)	C40	27475771.69			
50)	C21-C40 Aliphatics	286669737.9	555452.5925	573339.4758	-3.2
	For MAEPH				
23)	C11-C22 Aromatics (Unadj.)	522811361)	631209)	615072)	2.6
36)	C19	32092469.25			
51)	C9-C18 Aliphatics	182685541.3	610324.8207	608951.8043	0.2
52)	C19-C36 Aliphatics	239850381.4	587241.5002	599625.9535	-2.1

Manual Integrations APPROVED (compounds with "m" flag)
Gwendolyn Burns
09/30/22 15:14

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85384.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 3:51 pm
Operator : thomasl
Sample : cc3347-20
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:52:28 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc	Units	
System Monitoring Compounds						
24) S	2-Fluorobiphenyl (S)	8.232	12495778	21.393	ug/L	
25) S	2-Bromonaphthalene (S)	9.279	8580776	21.172	ug/L	
26) S	o-Terphenyl (S)	12.509	13364594	20.963	ug/L	
53) S	Naphthalene (S)	6.229	6863210	10.664	ug/L	m
54) S	2-Methylnaphthalene (S)	7.358	7005625	10.724	ug/L	
55) S	1-Chlorooctadecane (S)	13.657	11052542	21.001	ug/L	
Target Compounds						
1) T	1,2,3-Trimethylbenzene	4.630	14281389	21.587	ug/l	
2) T	Naphthalene	6.457	14852962	21.576	ug/L	
4) T	2-Methylnaphthalene	7.586	14510178	21.485	ug/L	
5) T	Acenaphthylene	9.046	13799502	20.953	ug/l	
6) T	Acenaphthene	9.342	14872764	21.187	ug/l	
8) T	Fluorene	10.211	13991441	21.116	ug/l	
9) T	Phenanthrene	11.803	13473783	20.923	ug/l	
10) T	Anthracene	11.890	13246263	20.668	ug/l	
11) T	Fluoranthene	13.840	12909099	20.694	ug/l	
12) T	Pyrene	14.224	13165407	20.567	ug/l	
14) T	Benzo(a)Anthracene	16.469	12545918	20.253	ug/l	
15) T	Chrysene	16.534	12578522	20.371	ug/l	
16) T	Benzo(b)Fluoranthene	18.394	12236631	20.286	ug/l	
17) T	Benzo(k)Fluoranthene	18.442	11770795	20.118	ug/l	
18) T	Benzo(a)Pyrene	18.916	11878093	20.273	ug/l	
19) T	Indeno(1,2,3-cd)Pyrene	20.626	11952648	20.616	ug/l	
20) T	Dibenzo(ah)Anthracene	20.679	12697508	20.318	ug/l	
21) T	Benzo(ghi)Perylene	20.977	11927266	20.601	ug/l	
28) T	C9	3.054	12291999	20.868	ug/L	
29) T	C10	4.154	12657403	21.077	ug/L	
30) T	C12	6.326	13006542	21.239	ug/L	
32) T	C14	8.282	13172863	21.445	ug/L	
33) T	C16	10.029	13180121	21.235	ug/L	
35) T	C18	11.603	13170022	21.071	ug/L	
36) T	C19	12.335	13349263	21.156	ug/L	
37) T	C20	13.043	13091914	21.068	ug/L	
38) T	C21	13.740	13000750	21.086	ug/L	
40) T	C22	14.428	12854683	20.883	ug/L	
41) T	C24	15.757	12604793	21.019	ug/L	
42) T	C26	17.021	12223531	20.883	ug/L	
43) T	C28	18.211	11870061	21.004	ug/L	
44) T	C30	19.331	11658985	20.992	ug/L	
45) T	C32	20.385	11497168	21.044	ug/L	
46) T	C34	21.379	11059886	21.098	ug/L	
47) T	C36	22.411	11093003	21.153	ug/L	
48) T	C38	23.760	10824311	21.048	ug/L	
49) T	C40	25.610f	10950579	20.890	ug/L	

(f)=RT Delta > 1/2 Window (m)=manual int.

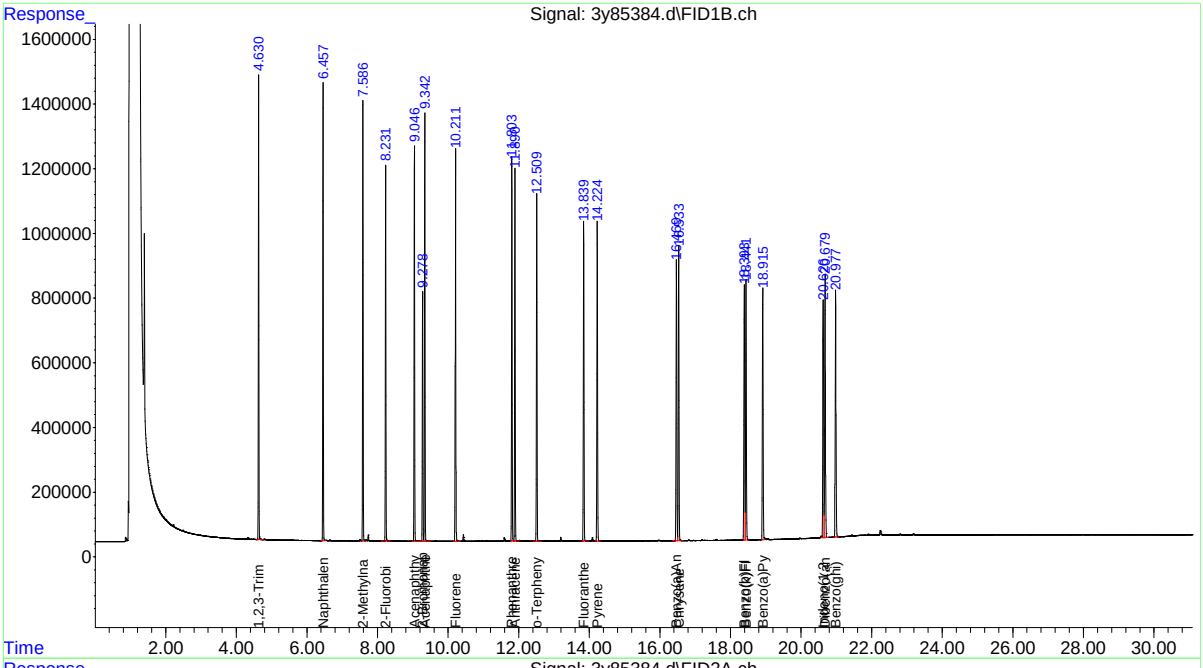
7.5.22
7

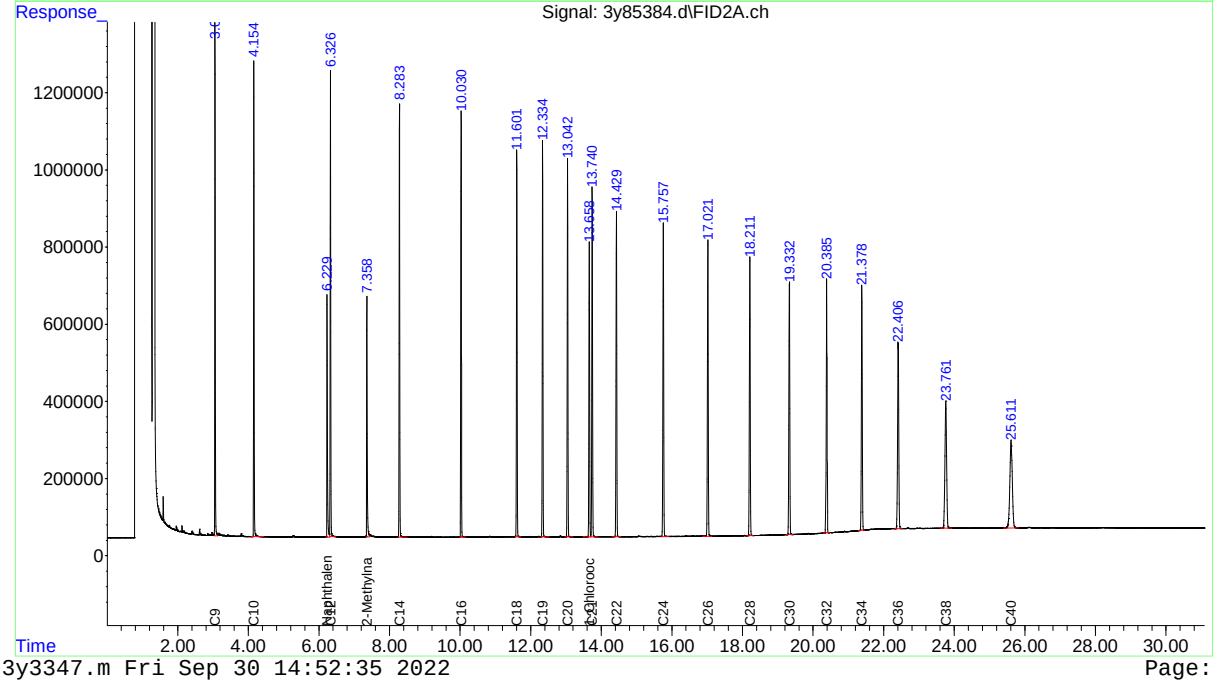
Quantitation Report (QT Reviewed)

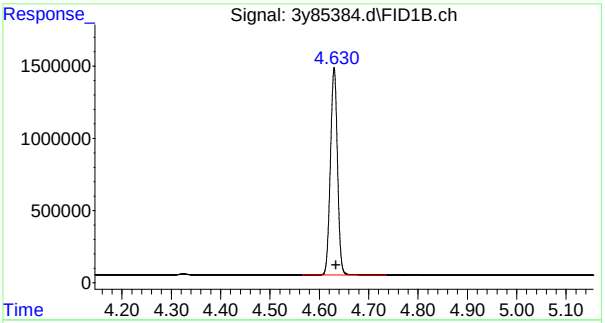
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85384.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 3:51 pm
Operator : thomasl
Sample : cc3347-20
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:52:28 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

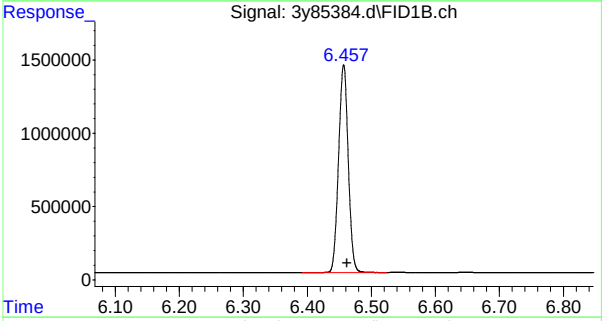






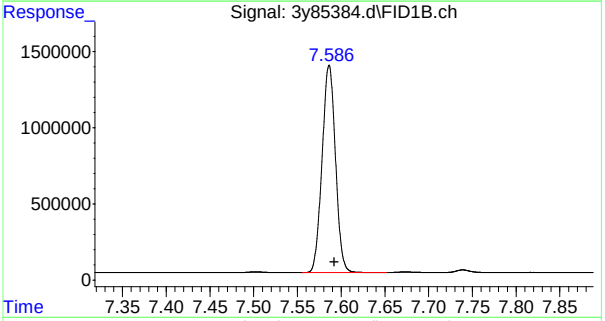
#1 1,2,3-Trimethylbenzene

R.T.: 4.630 min
Delta R.T.: -0.004 min
Response: 14281389
Conc: 21.59 ug/l



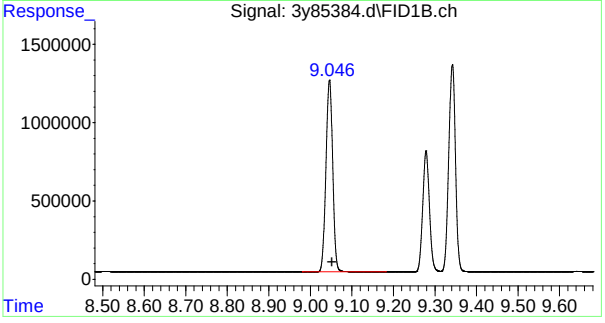
#2 Naphthalene

R.T.: 6.457 min
Delta R.T.: -0.005 min
Response: 14852962
Conc: 21.58 ug/L



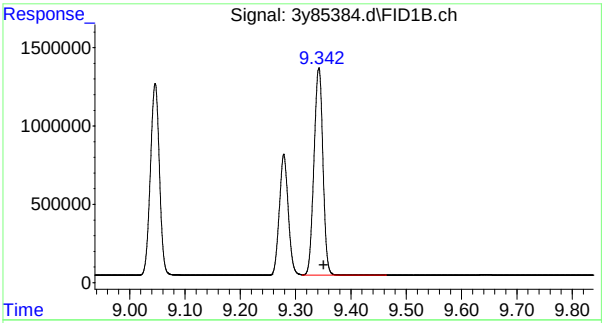
#4 2-Methylnaphthalene

R.T.: 7.586 min
Delta R.T.: -0.006 min
Response: 14510178
Conc: 21.49 ug/L



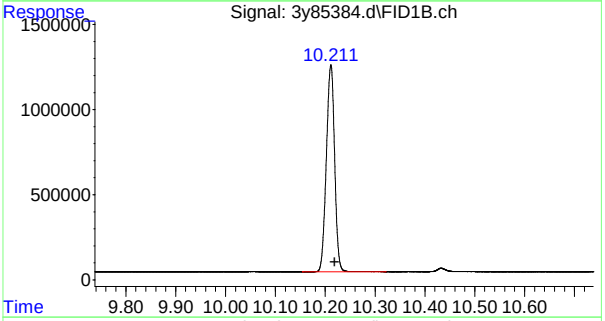
#5 Acenaphthylene

R.T.: 9.046 min
Delta R.T.: -0.006 min
Response: 13799502
Conc: 20.95 ug/l



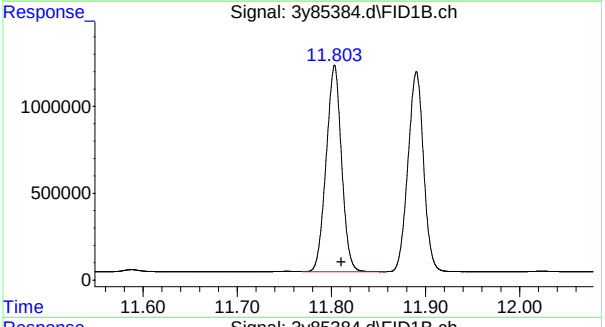
#6 Acenaphthene

R.T.: 9.342 min
Delta R.T.: -0.009 min
Response: 14872764
Conc: 21.19 ug/l



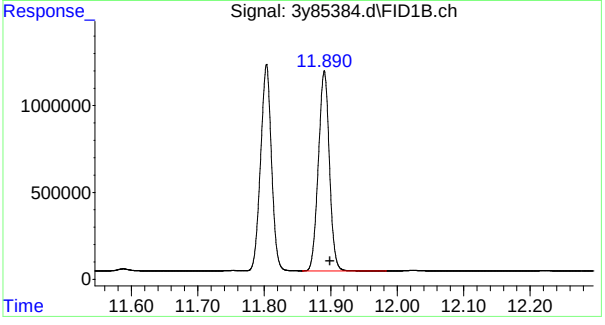
#8 Fluorene

R.T.: 10.211 min
Delta R.T.: -0.008 min
Response: 13991441
Conc: 21.12 ug/l



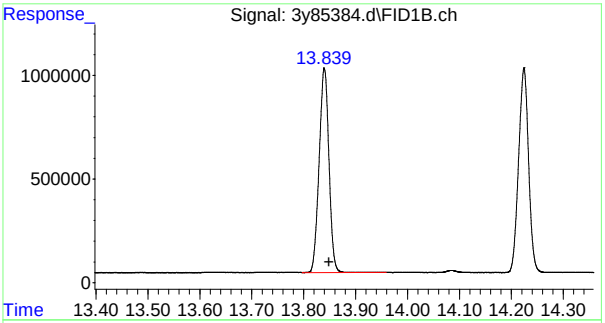
#9 Phenanthrene

R.T.: 11.803 min
Delta R.T.: -0.007 min
Response: 13473783
Conc: 20.92 ug/l



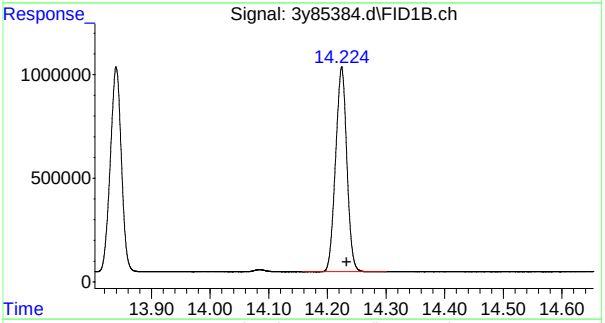
#10 Anthracene

R.T.: 11.890 min
Delta R.T.: -0.008 min
Response: 13246263
Conc: 20.67 ug/l



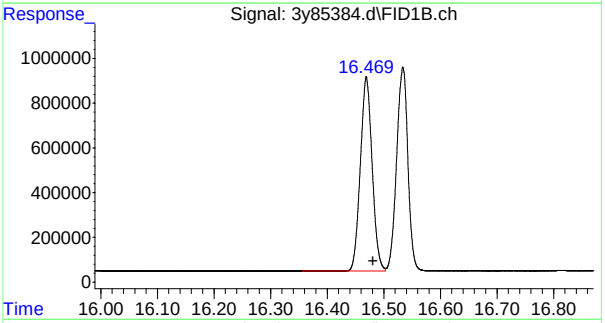
#11 Fluoranthene

R.T.: 13.840 min
Delta R.T.: -0.009 min
Response: 12909099
Conc: 20.69 ug/l



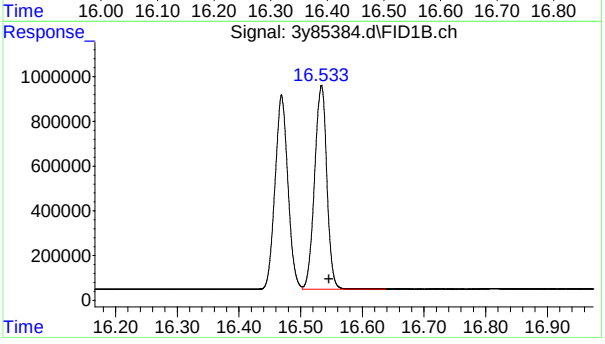
#12 Pyrene

R.T.: 14.224 min
Delta R.T.: -0.009 min
Response: 13165407
Conc: 20.57 ug/l



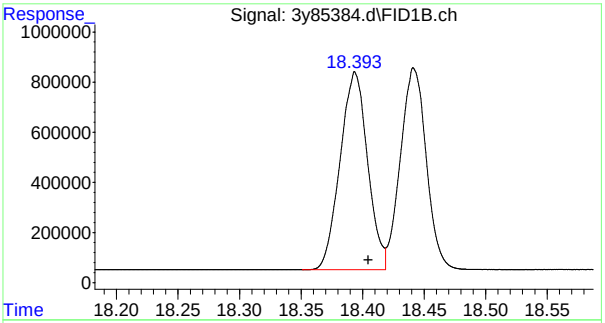
#14 Benzo(a)Anthracene

R.T.: 16.469 min
Delta R.T.: -0.012 min
Response: 12545918
Conc: 20.25 ug/l



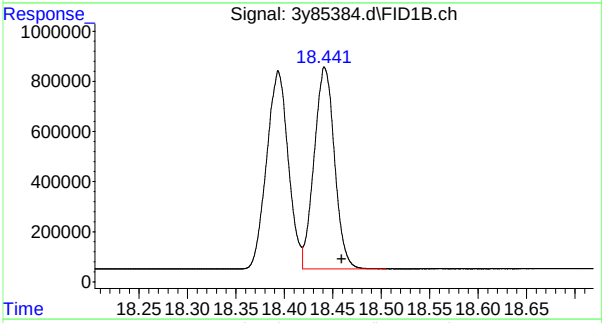
#15 Chrysene

R.T.: 16.534 min
Delta R.T.: -0.012 min
Response: 12578522
Conc: 20.37 ug/l



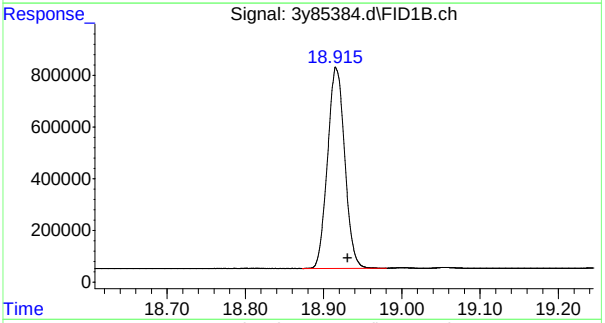
#16 Benzo(b)Fluoranthene

R.T.: 18.394 min
Delta R.T.: -0.011 min
Response: 12236631
Conc: 20.29 ug/l



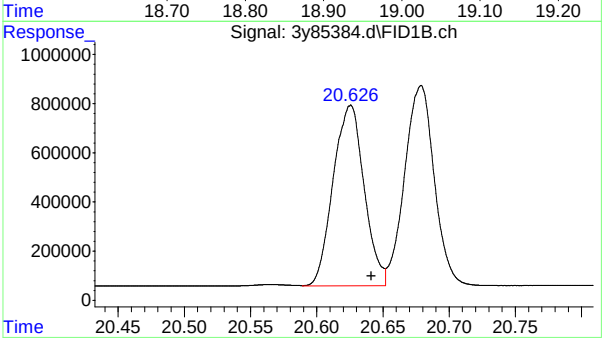
#17 Benzo(k)Fluoranthene

R.T.: 18.442 min
Delta R.T.: -0.017 min
Response: 11770795
Conc: 20.12 ug/l



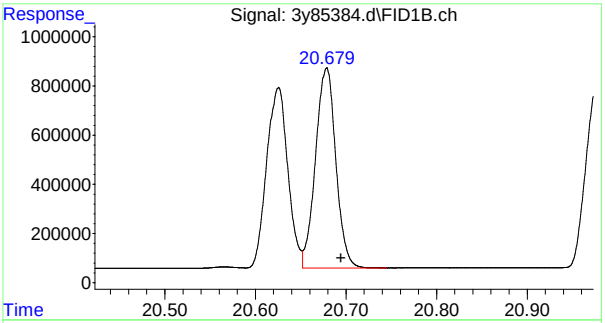
#18 Benzo(a)Pyrene

R.T.: 18.916 min
Delta R.T.: -0.015 min
Response: 11878093
Conc: 20.27 ug/l



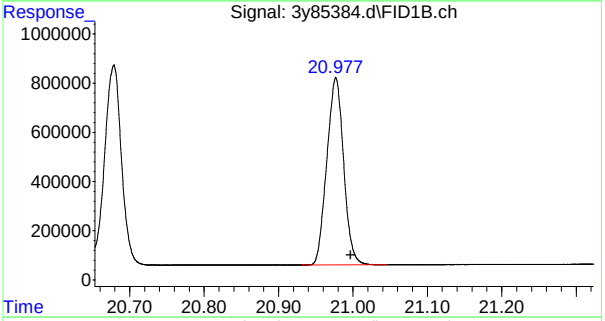
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.626 min
Delta R.T.: -0.015 min
Response: 11952648
Conc: 20.62 ug/l



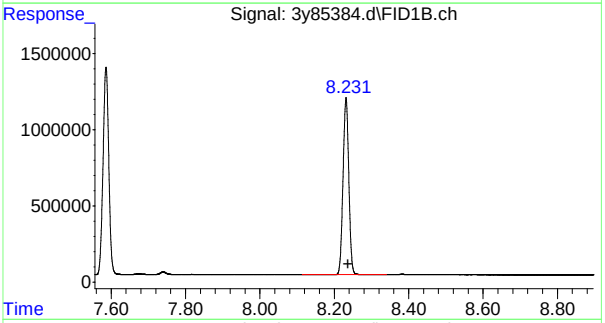
#20 Dibenzo(ah)Anthracene

R.T.: 20.679 min
Delta R.T.: -0.015 min
Response: 12697508
Conc: 20.32 ug/l



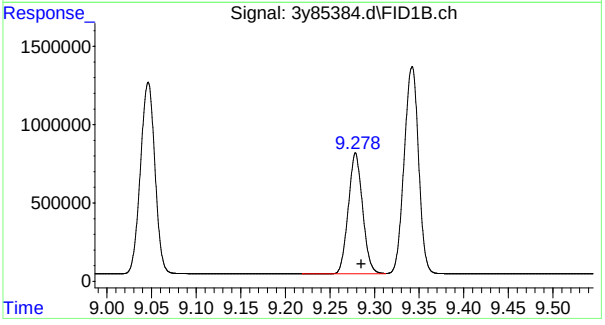
#21 Benzo(ghi)Perylene

R.T.: 20.977 min
Delta R.T.: -0.019 min
Response: 11927266
Conc: 20.60 ug/l



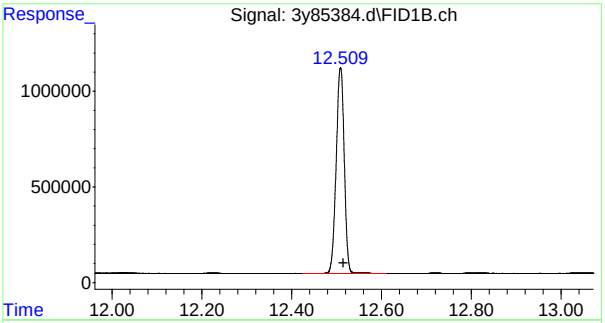
#24 2-Fluorobiphenyl (S)

R.T.: 8.232 min
Delta R.T.: -0.005 min
Response: 12495778
Conc: 21.39 ug/L



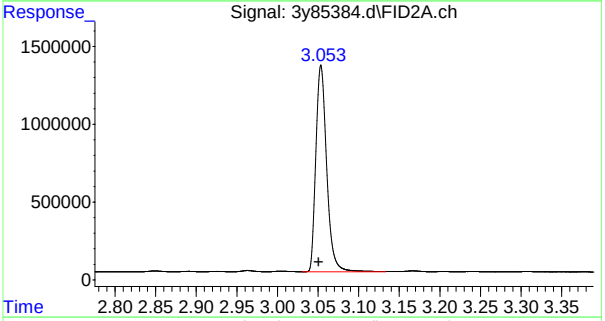
#25 2-Bromonaphthalene (S)

R.T.: 9.279 min
Delta R.T.: -0.006 min
Response: 8580776
Conc: 21.17 ug/L



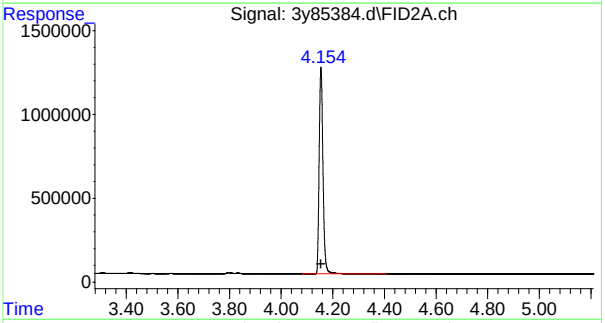
#26 o-Terphenyl (S)

R.T.: 12.509 min
Delta R.T.: -0.006 min
Response: 13364594
Conc: 20.96 ug/L



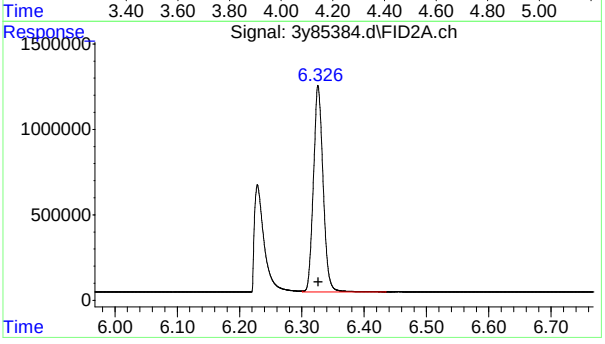
#28 C9

R.T.: 3.054 min
Delta R.T.: 0.003 min
Response: 12291999
Conc: 20.87 ug/L



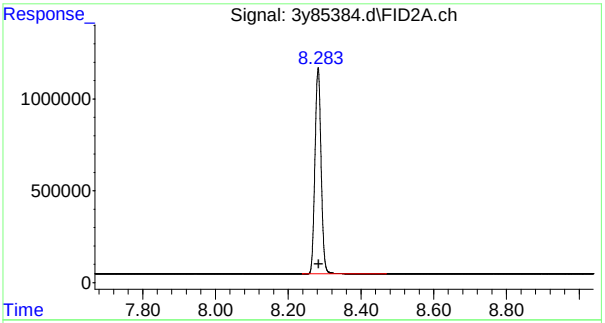
#29 C10

R.T.: 4.154 min
Delta R.T.: 0.000 min
Response: 12657403
Conc: 21.08 ug/L



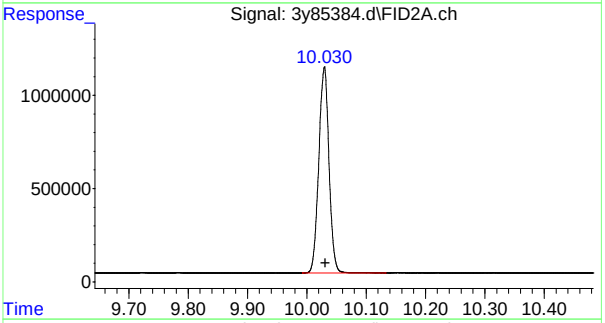
#30 C12

R.T.: 6.326 min
Delta R.T.: 0.000 min
Response: 13006542
Conc: 21.24 ug/L



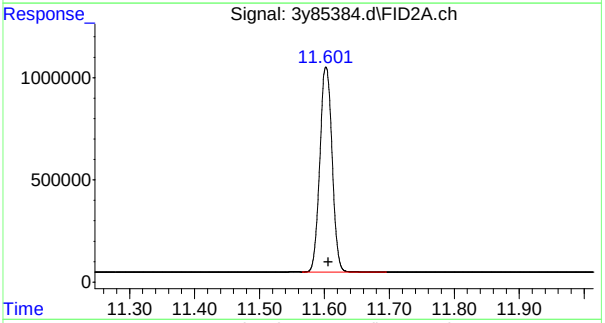
#32 C14

R.T.: 8.282 min
Delta R.T.: -0.001 min
Response: 13172863
Conc: 21.45 ug/L



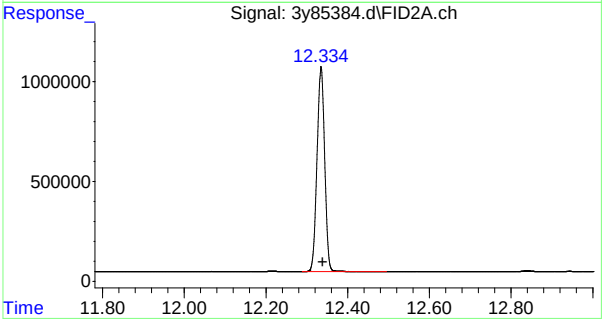
#33 C16

R.T.: 10.029 min
Delta R.T.: -0.002 min
Response: 13180121
Conc: 21.23 ug/L



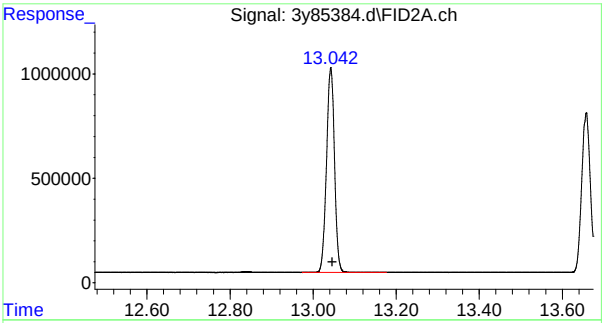
#35 C18

R.T.: 11.603 min
Delta R.T.: -0.003 min
Response: 13170022
Conc: 21.07 ug/L



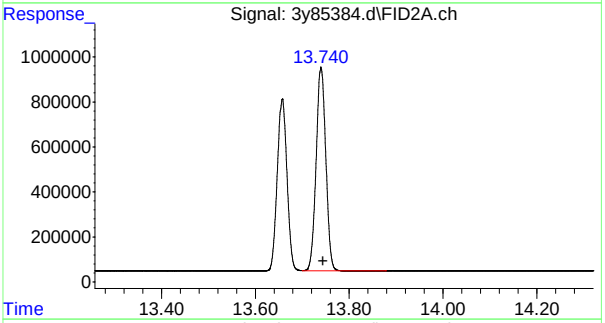
#36 C19

R.T.: 12.335 min
Delta R.T.: -0.004 min
Response: 13349263
Conc: 21.16 ug/L



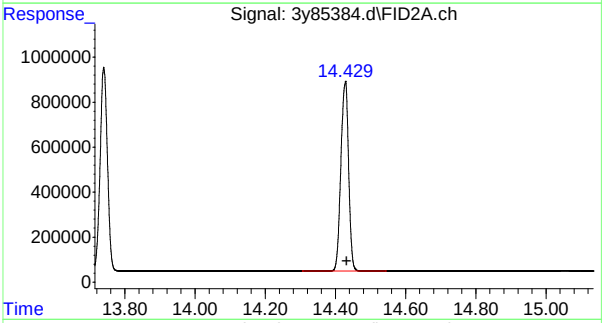
#37 C20

R.T.: 13.043 min
Delta R.T.: -0.004 min
Response: 13091914
Conc: 21.07 ug/L



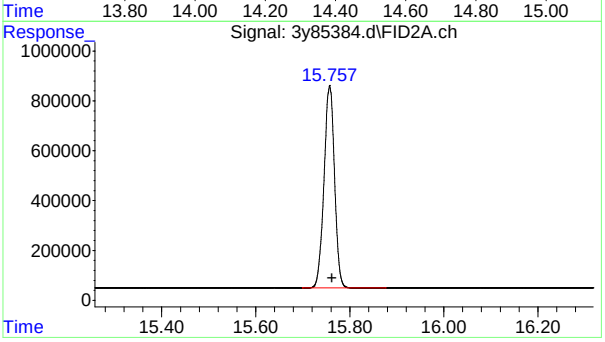
#38 C21

R.T.: 13.740 min
Delta R.T.: -0.004 min
Response: 13000750
Conc: 21.09 ug/L



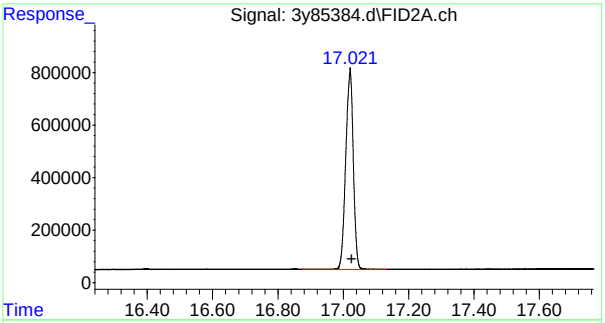
#40 C22

R.T.: 14.428 min
Delta R.T.: -0.004 min
Response: 12854683
Conc: 20.88 ug/L



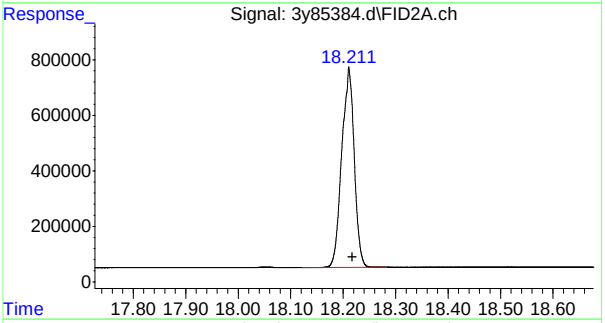
#41 C24

R.T.: 15.757 min
Delta R.T.: -0.005 min
Response: 12604793
Conc: 21.02 ug/L



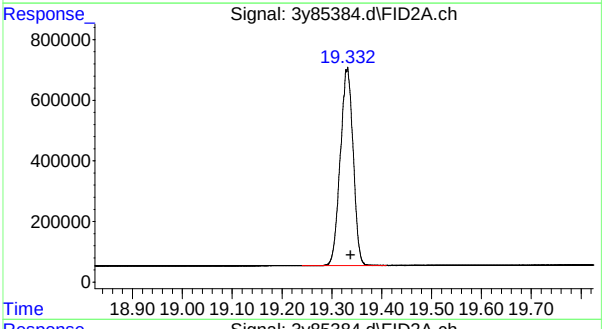
#42 C26

R.T.: 17.021 min
Delta R.T.: -0.005 min
Response: 12223531
Conc: 20.88 ug/L



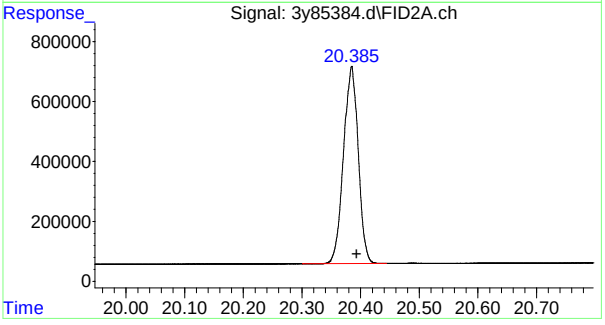
#43 C28

R.T.: 18.211 min
Delta R.T.: -0.006 min
Response: 11870061
Conc: 21.00 ug/L



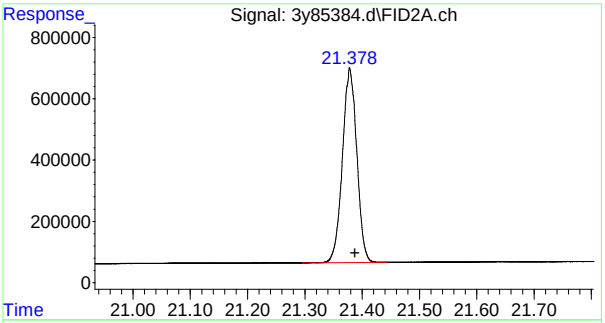
#44 C30

R.T.: 19.331 min
Delta R.T.: -0.007 min
Response: 11658985
Conc: 20.99 ug/L



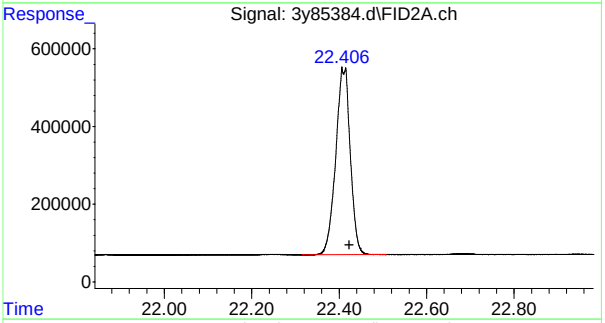
#45 C32

R.T.: 20.385 min
Delta R.T.: -0.009 min
Response: 11497168
Conc: 21.04 ug/L



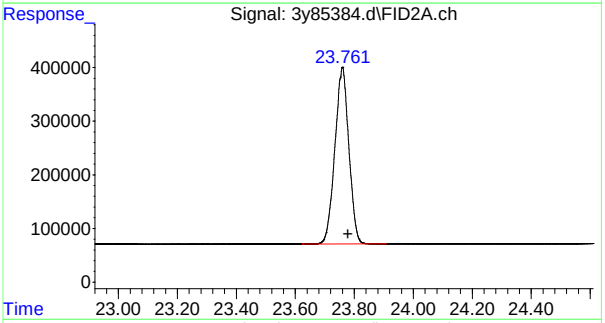
#46 C34

R.T.: 21.379 min
Delta R.T.: -0.009 min
Response: 11059886
Conc: 21.10 ug/L



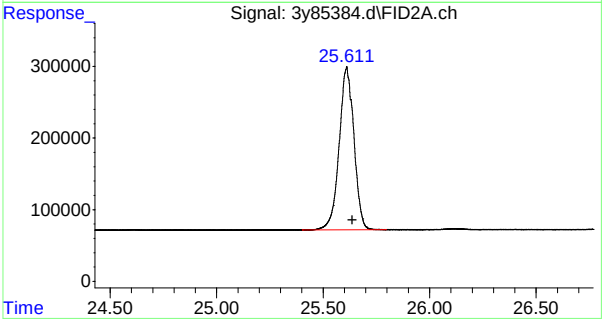
#47 C36

R.T.: 22.411 min
Delta R.T.: -0.012 min
Response: 11093003
Conc: 21.15 ug/L



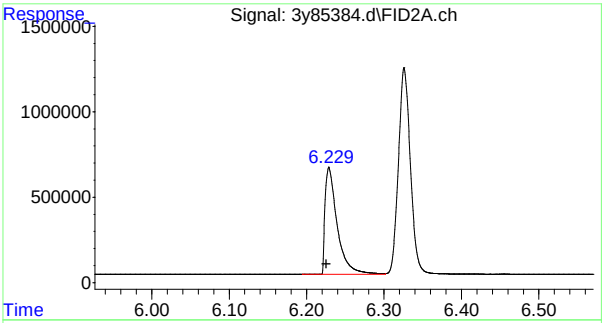
#48 C38

R.T.: 23.760 min
Delta R.T.: -0.018 min
Response: 10824311
Conc: 21.05 ug/L



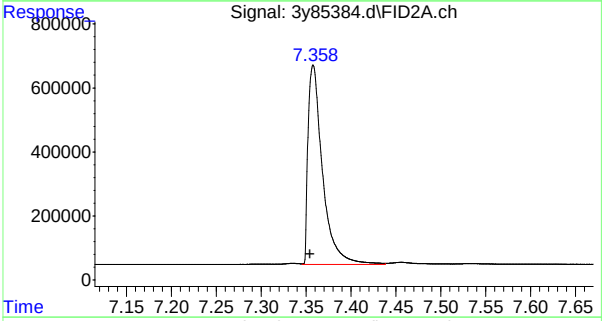
#49 C40

R.T.: 25.610 min
Delta R.T.: -0.027 min
Response: 10950579
Conc: 20.89 ug/L



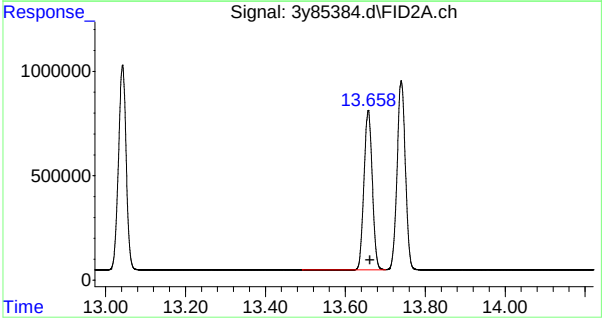
#53 Naphthalene (S)

R.T.: 6.229 min
Delta R.T.: 0.003 min
Response: 6863210
Conc: 10.66 ug/L m



#54 2-Methylnaphthalene (S)

R.T.: 7.358 min
Delta R.T.: 0.004 min
Response: 7005625
Conc: 10.72 ug/L



#55 1-Chlorooctadecane (S)

R.T.: 13.657 min
Delta R.T.: -0.004 min
Response: 11052542
Conc: 21.00 ug/L

Manual Integration Approval Summary

Sample Number:	G3Y3349-CC3347	**Method:**	MADEP EPH REV 2.1
Lab FileID:	3Y85384.D	**Analyst approved:**	09/30/22 15:10 Gwendolyn Burns
Injection Time:	09/28/22 15:51	**Supervisor approved:**	09/30/22 15:14 Gwendolyn Burns

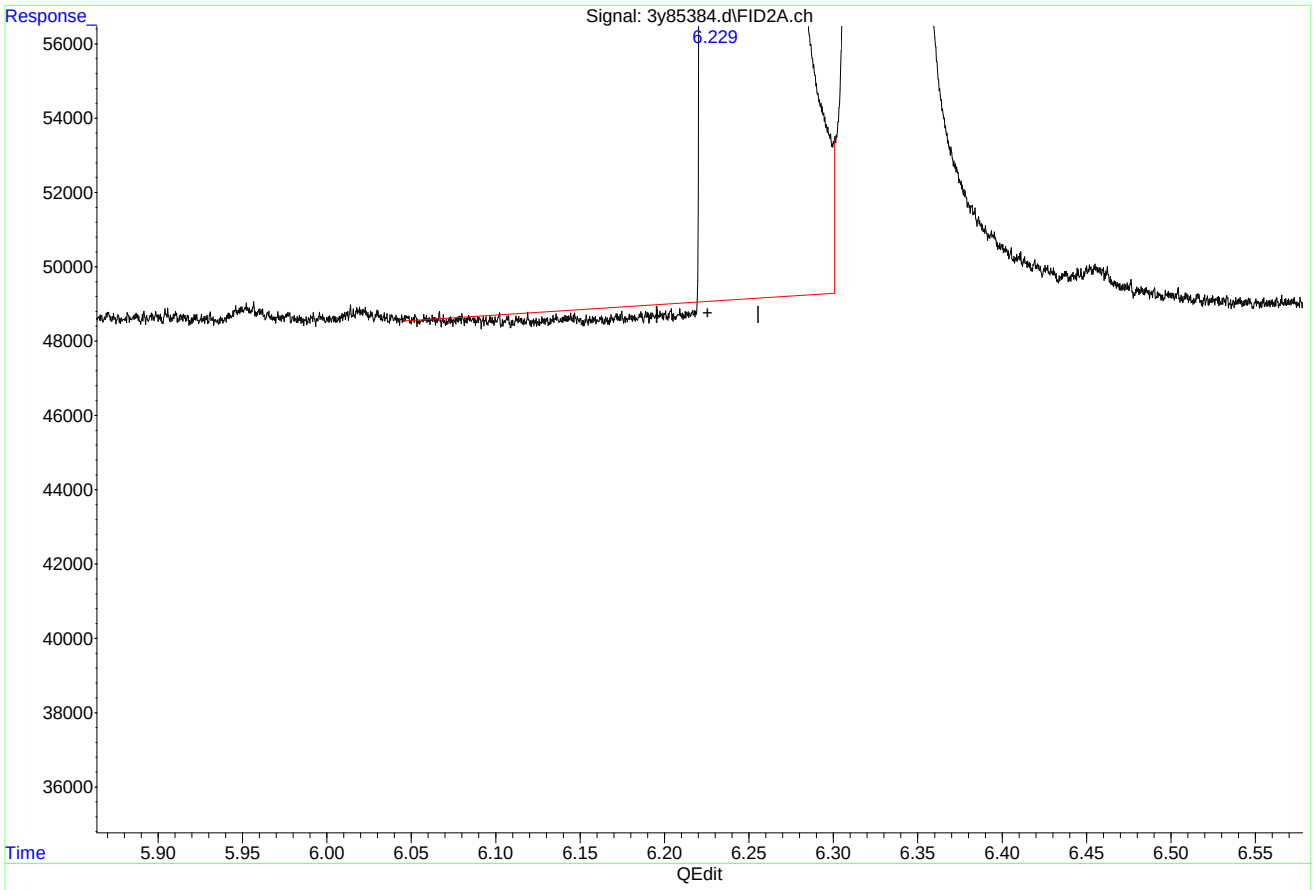
Parameter	CAS	Sig#	R.T. (min.)	Reason
Naphthalene	91-20-3	2	6.23	Poorly defined baseline

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85384.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 3:51 pm
Operator : thomasl
Sample : cc3347-20
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:48:19 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(53) Naphthalene (S) (S)

6.230min 10.572 ug/L

response 6804091

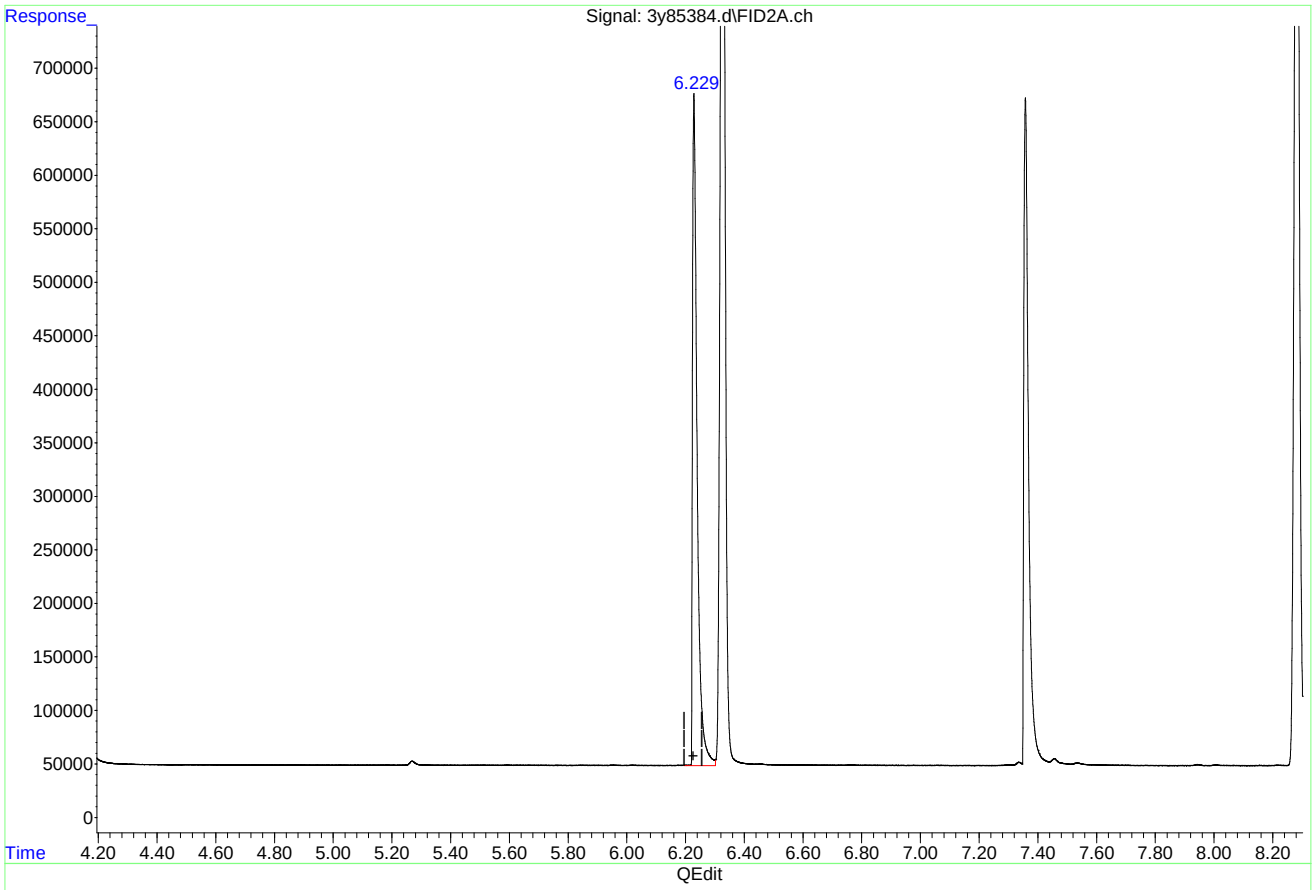
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85384.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 3:51 pm
Operator : thomasl
Sample : cc3347-20
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:48:19 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um



(53) Naphthalene (S) (S)

6.229min 10.664 ug/L m

response 6863210

(+) = Expected Retention Time

C:\msdchem\1\data\g3y3349\3y85384.d

Hydrocarbon Range Total Response

Data File Name	**3y85384.d**
Date Acquired	**9/28/2022 15:51**
Sample Name	**cc3347-20**

	Name	Target Response	AvgRF	CCRF	%D
2)	Naphthalene	14852962			
4)	2-Methylnaphthalene	14510178			
5)	Acenaphthylene	13799502			
6)	Acenaphthene	14872764			
8)	Fluorene	13991441			
9)	Phenanthrene	13473783			
10)	Anthracene	13246263			
11)	Fluoranthene	12909099			
12)	Pyrene	13165407			
14)	Benzo(a)Anthracene	12545918			
15)	Chrysene	12578522			
16)	Benzo(b)Fluoranthene	12236631			
17)	Benzo(k)Fluoranthene	11770795			
18)	Benzo(a)Pyrene	11878093			
19)	Indeno(1,2,3-cd)Pyrene	11952648			
20)	Dibenzo(ah)Anthracene	12697508			
21)	Benzo(ghi)Perylene	11927266			
23)	C11-C22 Aromatics (Unadj.)	222408781	631209.0318	654143.5	-3.6
	SIGNAL #2				
28)	C9	12291999			
29)	C10	12657403			
30)	C12	13006542			
32)	C14	13172863			
33)	C16	13180121			
35)	C18	13170022			
36)	C19	13349263			
37)	C20	13091914			
40)	C22	12854683			
41)	C24	12604793			
42)	C26	12223531			
43)	C28	11870061			
44)	C30	11658985			
47)	C36	11093003			
51)	C9-C18 Aliphatics	77478950.51	610324.8207	645657.9	-5.8
52)	C19-C36 Aliphatics	98746232.7	587241.5002	617164	-5.1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85388.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 7:16 pm
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:01 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

	Compound	R.T.	Response	Conc Units
System Monitoring Compounds				
24) S	2-Fluorobiphenyl (S)	8.235	30219891	51.737 ug/L
25) S	2-Bromonaphthalene (S)	9.284	20840609	51.423 ug/L
26) S	o-Terphenyl (S)	12.513	32112154	50.369 ug/L
53) S	Naphthalene (S)	6.229	16945661	26.329 ug/L
54) S	2-Methylnaphthalene (S)	7.358	17344117	26.550 ug/L
55) S	1-Chlorooctadecane (S)	13.661	27504225	52.261 ug/L
Target Compounds				
1) T	1,2,3-Trimethylbenzene	4.633	34717859	52.478 ug/l
2) T	Naphthalene	6.461	36185052	52.564 ug/L
4) T	2-Methylnaphthalene	7.590	34962438	51.769 ug/L
5) T	Acenaphthylene	9.051	33456514	50.800 ug/l
6) T	Acenaphthene	9.348	36046596	51.350 ug/l
8) T	Fluorene	10.217	33833159	51.062 ug/l
9) T	Phenanthrene	11.809	32524399	50.505 ug/l
10) T	Anthracene	11.898	31994773	49.922 ug/l
11) T	Fluoranthene	13.847	30988278	49.675 ug/l
12) T	Pyrene	14.231	31655580	49.451 ug/l
14) T	Benzo(a)Anthracene	16.479	30522508	49.274 ug/l
15) T	Chrysene	16.545	30591326	49.542 ug/l
16) T	Benzo(b)Fluoranthene	18.404	30084329	49.873 ug/l
17) T	Benzo(k)Fluoranthene	18.456	29035300	49.625 ug/l
18) T	Benzo(a)Pyrene	18.929	29282309	49.978 ug/l
19) T	Indeno(1,2,3-cd)Pyrene	20.641	29778714	51.363 ug/l
20) T	Dibenzo(ah)Anthracene	20.693	31267217	50.033 ug/l
21) T	Benzo(ghi)Perylene	20.997	29643301	51.202 ug/l
28) T	C9	3.054	29778211	50.555 ug/L
29) T	C10	4.156	30775800	51.247 ug/L
30) T	C12	6.329	31950418	52.172 ug/L
32) T	C14	8.285	32461438	52.847 ug/L
33) T	C16	10.032	32673736	52.641 ug/L
35) T	C18	11.606	32696684	52.311 ug/L
36) T	C19	12.338	33057310	52.389 ug/L
37) T	C20	13.046	32408041	52.151 ug/L
38) T	C21	13.745	32112671	52.084 ug/L
40) T	C22	14.430	31743639	51.570 ug/L
41) T	C24	15.761	31124324	51.901 ug/L
42) T	C26	17.024	30190397	51.579 ug/L
43) T	C28	18.213	29538262	52.268 ug/L
44) T	C30	19.334	29301332	52.757 ug/L
45) T	C32	20.386	29132394	53.323 ug/L
46) T	C34	21.384	28283154	53.953 ug/L
47) T	C36	22.413	28466091	54.280 ug/L
48) T	C38	23.764	27848283	54.151 ug/L
49) T	C40	25.617	28223142	53.841 ug/L

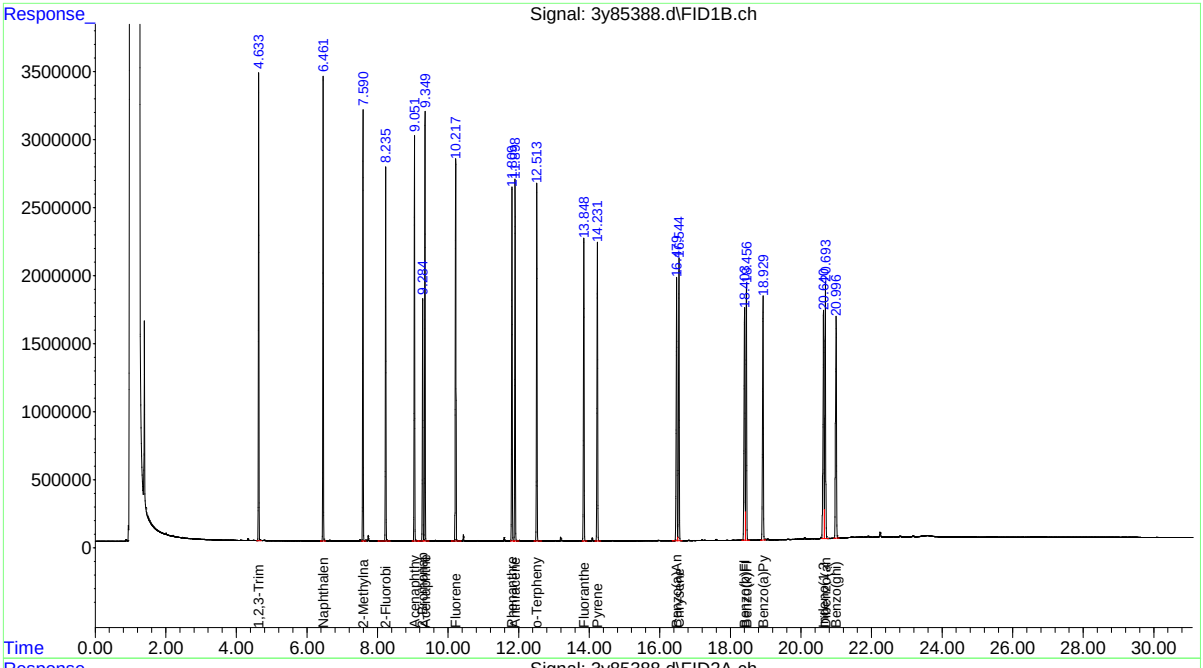
(f)=RT Delta > 1/2 Window (m)=manual int.

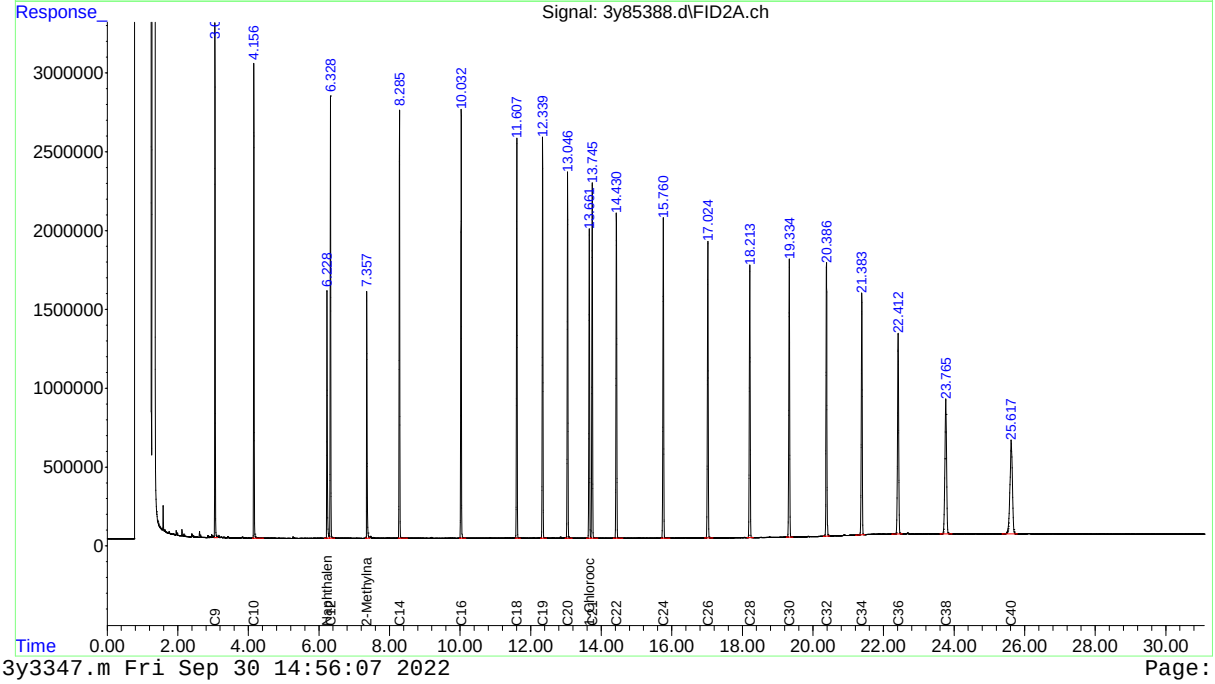
Quantitation Report (QT Reviewed)

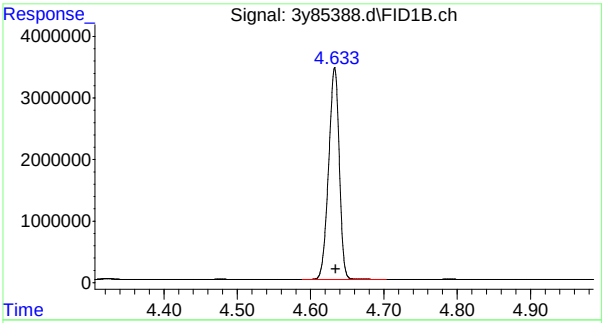
Data Path : C:\msdchem\1\data\g3y3349\
Data File : 3y85388.d
Signal(s) : Signal #1: FID1B.ch Signal #2: FID2A.ch
Acq On : 28 Sep 2022 7:16 pm
Operator : thomasl
Sample : cc3347-50
Misc : op41903,g3y3349,15.0,,,2,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Sep 30 14:56:01 2022
Quant Method : C:\msdchem\1\methods\eph3y3347.m
Quant Title : NJDEP Extractable Petroleum Hydrocarbons
QLast Update : Sun Sep 25 16:53:06 2022
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1ul/col
Signal #1 Phase : HP5 Signal #2 Phase: HP5
Signal #1 Info : 30mx.25mm.x.25um Signal #2 Info : 30mx.32mm.x25um

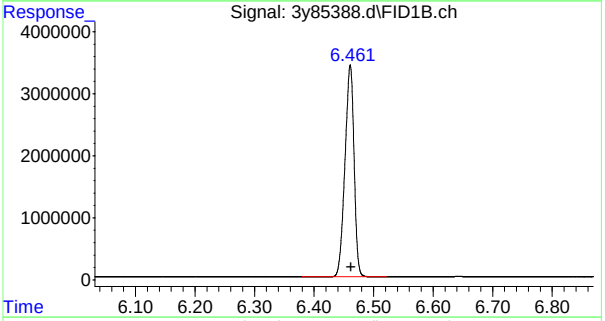






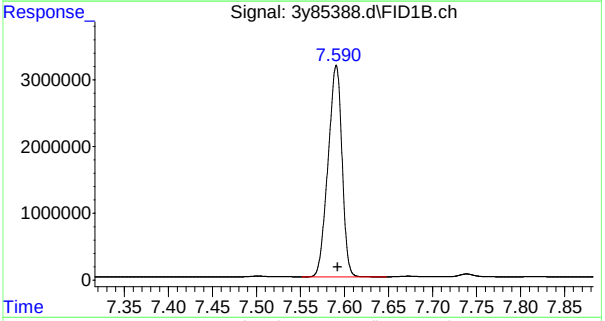
#1 1,2,3-Trimethylbenzene

R.T.: 4.633 min
Delta R.T.: -0.001 min
Response: 34717859
Conc: 52.48 ug/l



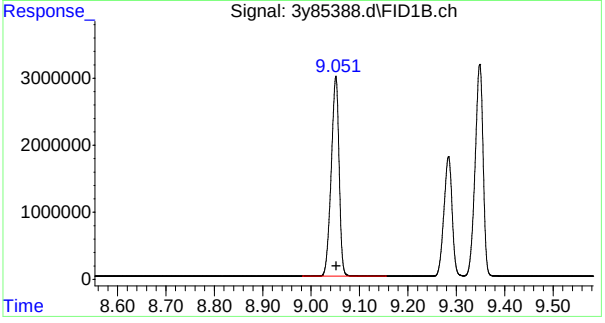
#2 Naphthalene

R.T.: 6.461 min
Delta R.T.: -0.001 min
Response: 36185052
Conc: 52.56 ug/L



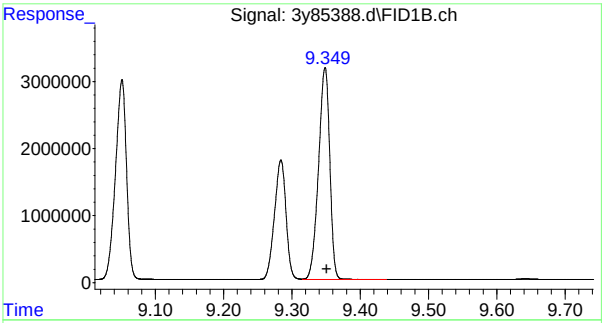
#4 2-Methylnaphthalene

R.T.: 7.590 min
Delta R.T.: -0.002 min
Response: 34962438
Conc: 51.77 ug/L



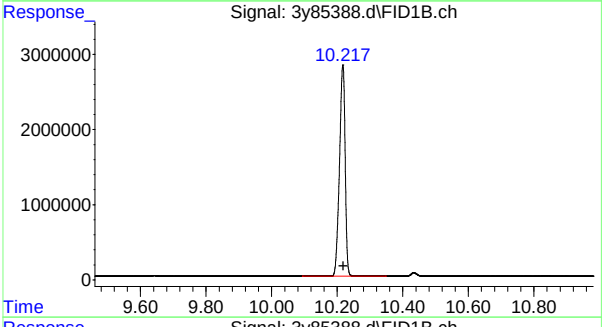
#5 Acenaphthylene

R.T.: 9.051 min
Delta R.T.: -0.001 min
Response: 33456514
Conc: 50.80 ug/l



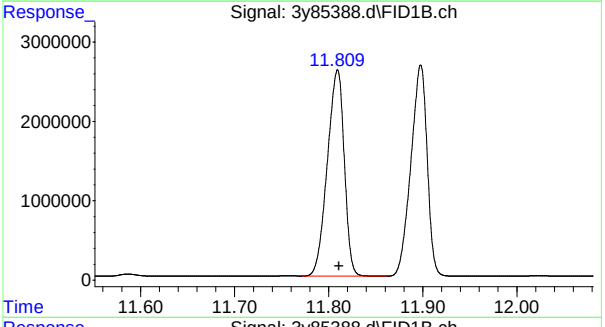
#6 Acenaphthene

R.T.: 9.348 min
Delta R.T.: -0.002 min
Response: 36046596
Conc: 51.35 ug/l



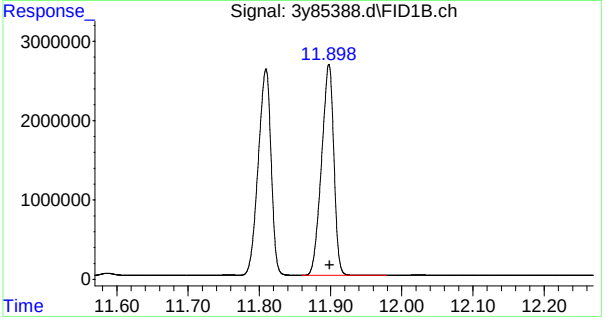
#8 Fluorene

R.T.: 10.217 min
Delta R.T.: -0.002 min
Response: 33833159
Conc: 51.06 ug/l



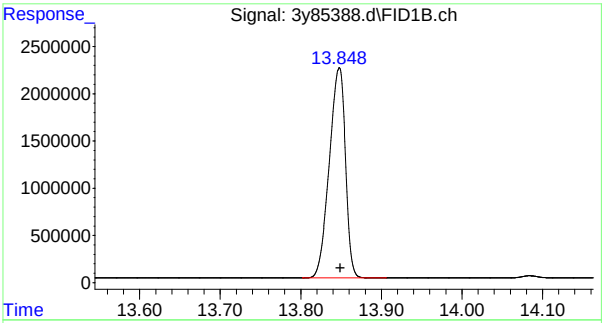
#9 Phenanthrene

R.T.: 11.809 min
Delta R.T.: -0.001 min
Response: 32524399
Conc: 50.51 ug/l



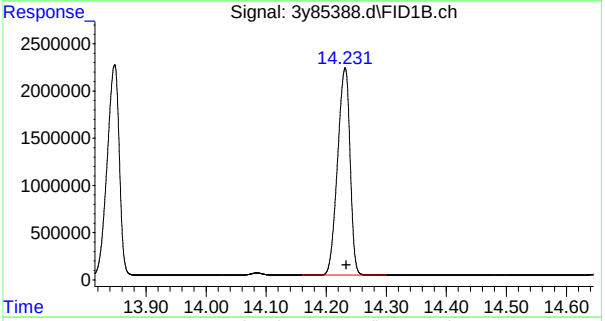
#10 Anthracene

R.T.: 11.898 min
Delta R.T.: -0.001 min
Response: 31994773
Conc: 49.92 ug/l



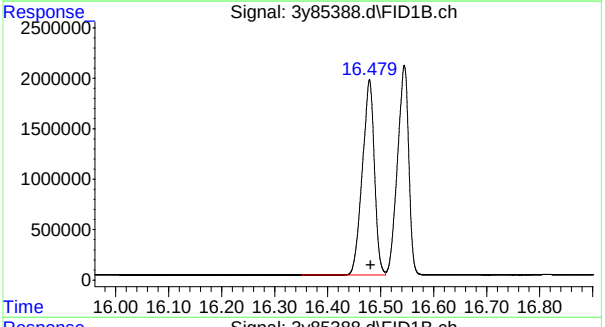
#11 Fluoranthene

R.T.: 13.847 min
Delta R.T.: -0.001 min
Response: 30988278
Conc: 49.68 ug/l



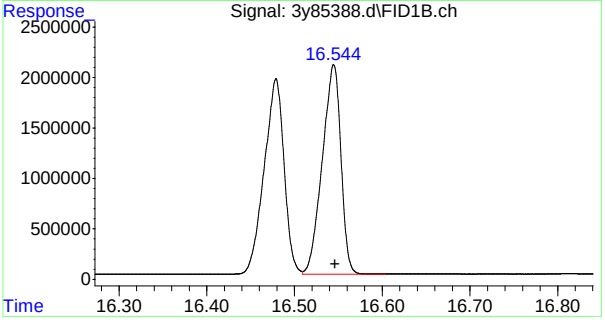
#12 Pyrene

R.T.: 14.231 min
Delta R.T.: -0.002 min
Response: 31655580
Conc: 49.45 ug/l



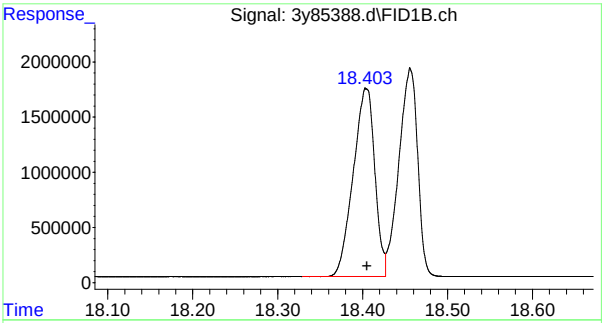
#14 Benzo(a)Anthracene

R.T.: 16.479 min
Delta R.T.: -0.002 min
Response: 30522508
Conc: 49.27 ug/l



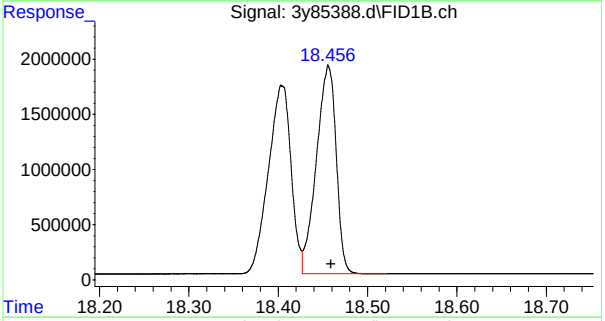
#15 Chrysene

R.T.: 16.545 min
Delta R.T.: -0.001 min
Response: 30591326
Conc: 49.54 ug/l



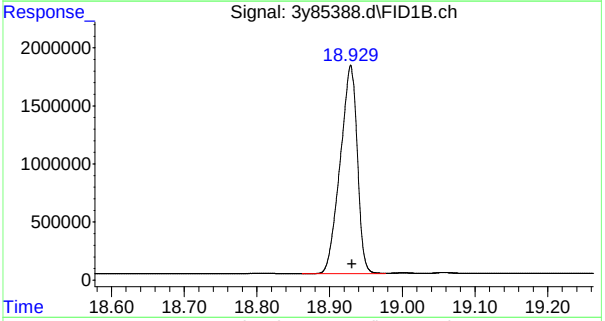
#16 Benzo(b)Fluoranthene

R.T.: 18.404 min
Delta R.T.: -0.001 min
Response: 30084329
Conc: 49.87 ug/l



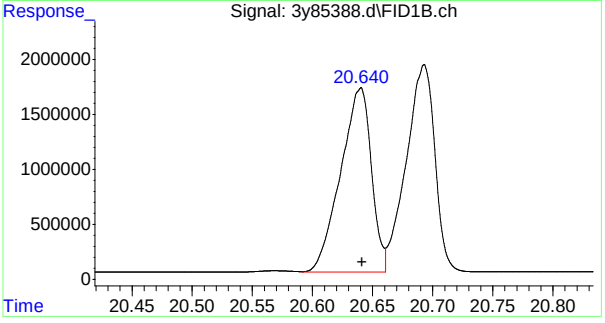
#17 Benzo(k)Fluoranthene

R.T.: 18.456 min
Delta R.T.: -0.003 min
Response: 29035300
Conc: 49.62 ug/l



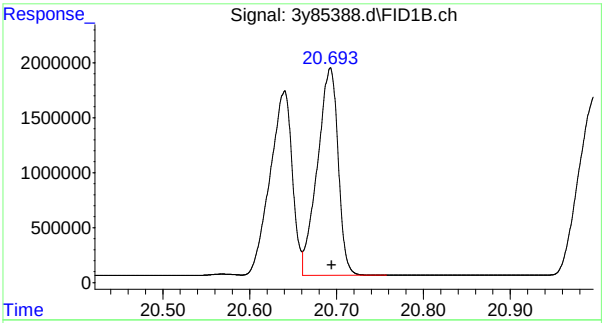
#18 Benzo(a)Pyrene

R.T.: 18.929 min
Delta R.T.: -0.001 min
Response: 29282309
Conc: 49.98 ug/l



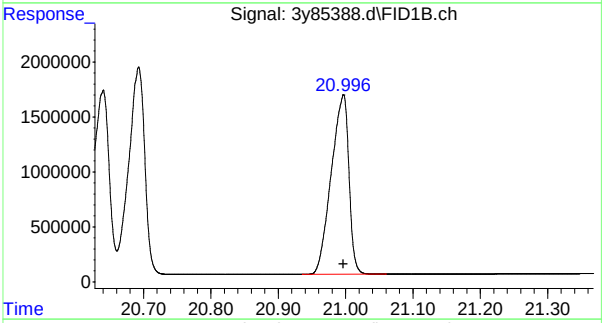
#19 Indeno(1,2,3-cd)Pyrene

R.T.: 20.641 min
Delta R.T.: 0.000 min
Response: 29778714
Conc: 51.36 ug/l



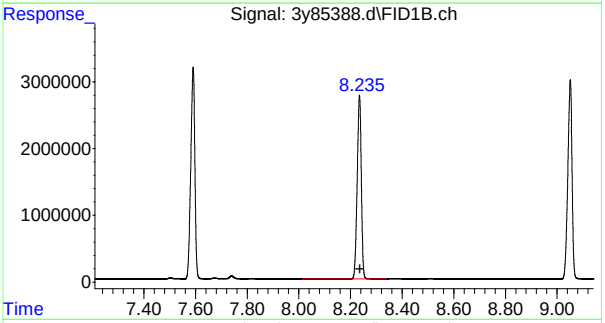
#20 Dibenzo(ah)Anthracene

R.T.: 20.693 min
Delta R.T.: -0.001 min
Response: 31267217
Conc: 50.03 ug/l



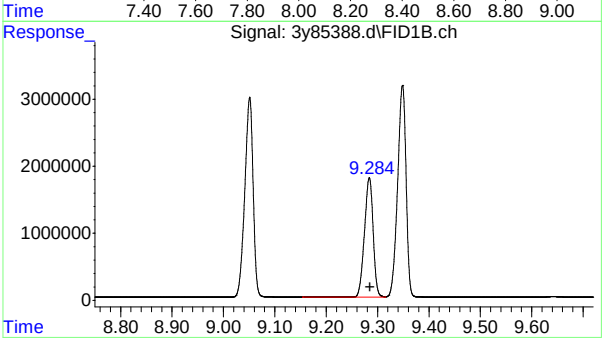
#21 Benzo(ghi)Perylene

R.T.: 20.997 min
Delta R.T.: 0.000 min
Response: 29643301
Conc: 51.20 ug/l



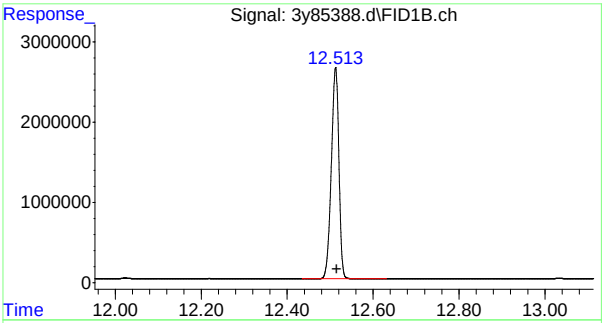
#24 2-Fluorobiphenyl (S)

R.T.: 8.235 min
Delta R.T.: -0.002 min
Response: 30219891
Conc: 51.74 ug/L



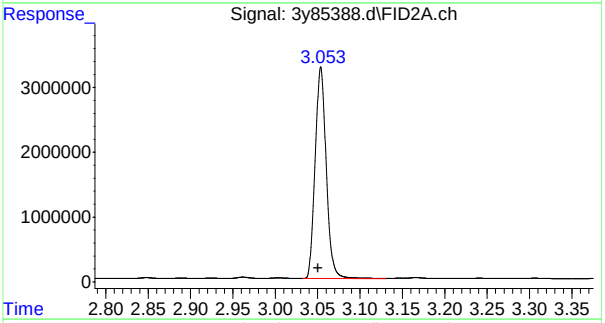
#25 2-Bromonaphthalene (S)

R.T.: 9.284 min
Delta R.T.: -0.001 min
Response: 20840609
Conc: 51.42 ug/L



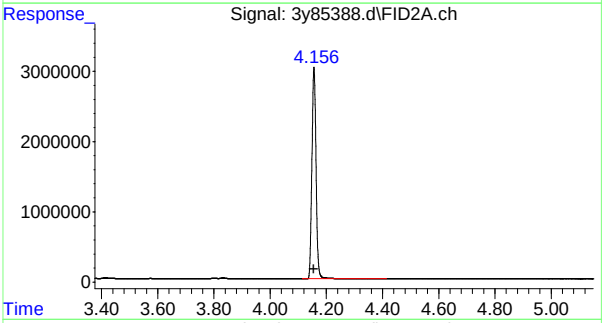
#26 o-Terphenyl (S)

R.T.: 12.513 min
Delta R.T.: -0.002 min
Response: 32112154
Conc: 50.37 ug/L



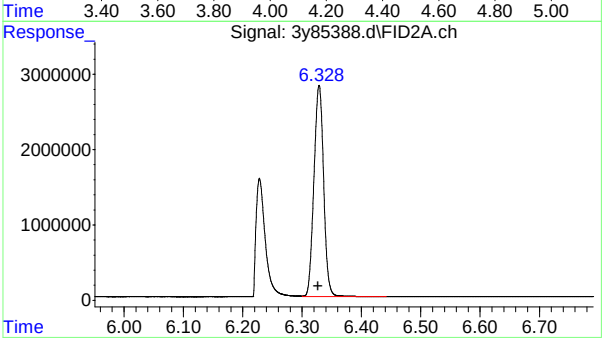
#28 C9

R.T.: 3.054 min
Delta R.T.: 0.003 min
Response: 29778211
Conc: 50.56 ug/L



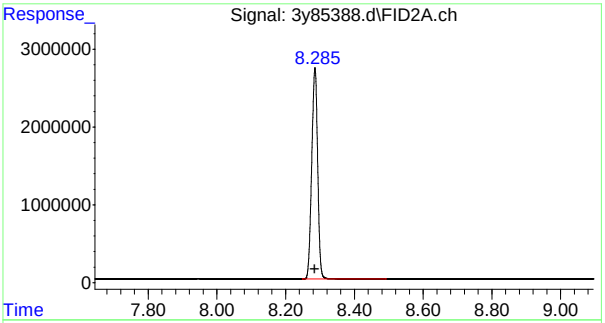
#29 C10

R.T.: 4.156 min
Delta R.T.: 0.003 min
Response: 30775800
Conc: 51.25 ug/L



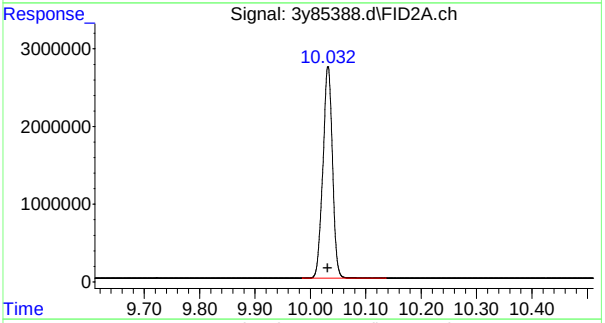
#30 C12

R.T.: 6.329 min
Delta R.T.: 0.002 min
Response: 31950418
Conc: 52.17 ug/L



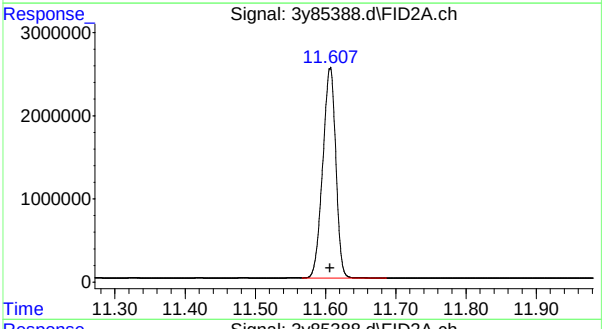
#32 C14

R.T.: 8.285 min
Delta R.T.: 0.002 min
Response: 32461438
Conc: 52.85 ug/L



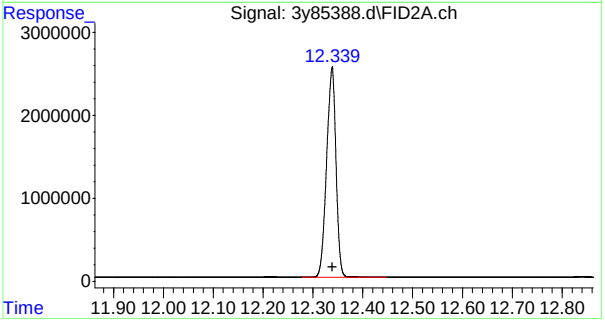
#33 C16

R.T.: 10.032 min
Delta R.T.: 0.000 min
Response: 32673736
Conc: 52.64 ug/L



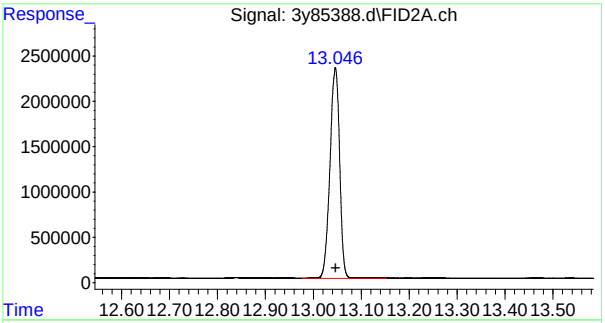
#35 C18

R.T.: 11.606 min
Delta R.T.: 0.000 min
Response: 32696684
Conc: 52.31 ug/L



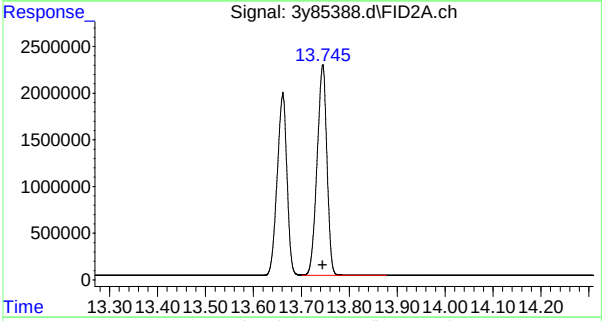
#36 C19

R.T.: 12.338 min
Delta R.T.: 0.000 min
Response: 33057310
Conc: 52.39 ug/L



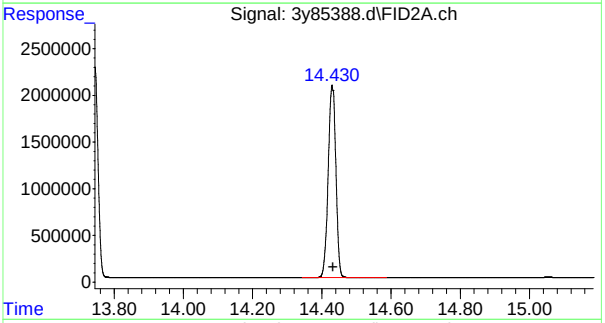
#37 C20

R.T.: 13.046 min
Delta R.T.: 0.000 min
Response: 32408041
Conc: 52.15 ug/L



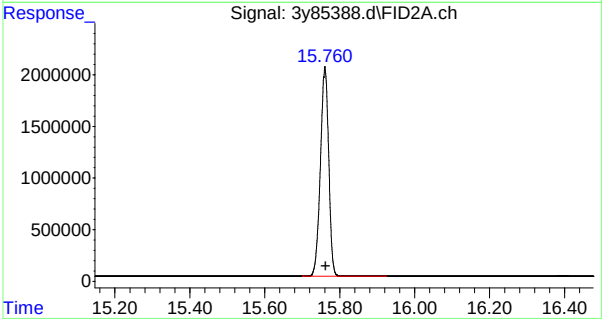
#38 C21

R.T.: 13.745 min
Delta R.T.: 0.000 min
Response: 32112671
Conc: 52.08 ug/L



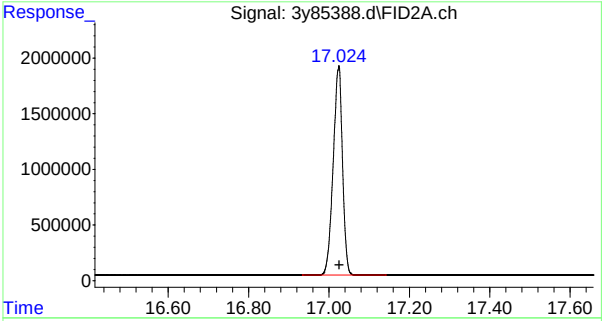
#40 C22

R.T.: 14.430 min
Delta R.T.: -0.002 min
Response: 31743639
Conc: 51.57 ug/L



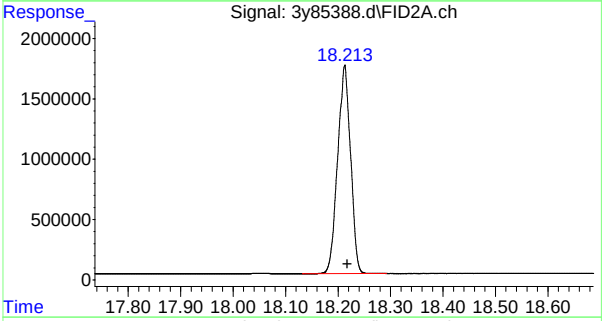
#41 C24

R.T.: 15.761 min
Delta R.T.: -0.002 min
Response: 31124324
Conc: 51.90 ug/L



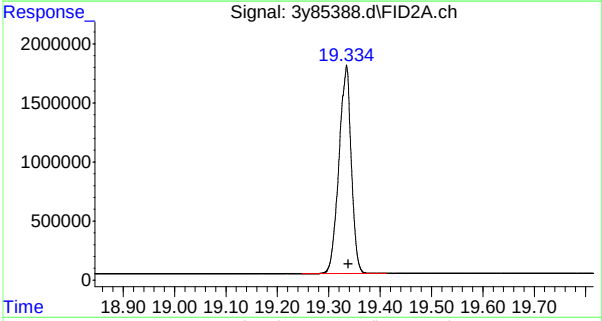
#42 C26

R.T.: 17.024 min
Delta R.T.: -0.002 min
Response: 30190397
Conc: 51.58 ug/L



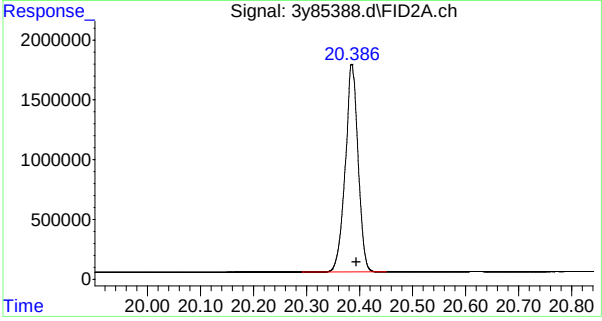
#43 C28

R.T.: 18.213 min
Delta R.T.: -0.005 min
Response: 29538262
Conc: 52.27 ug/L



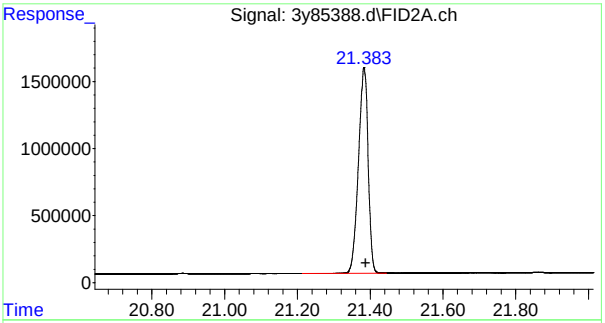
#44 C30

R.T.: 19.334 min
Delta R.T.: -0.004 min
Response: 29301332
Conc: 52.76 ug/L



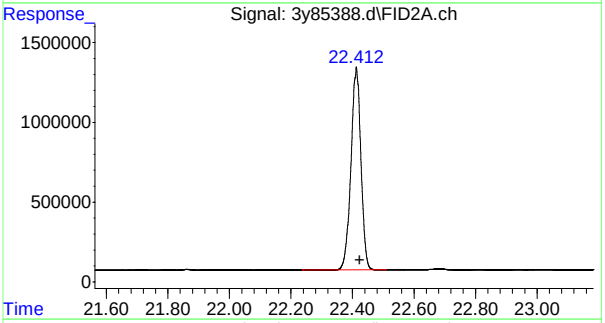
#45 C32

R.T.: 20.386 min
Delta R.T.: -0.008 min
Response: 29132394
Conc: 53.32 ug/L



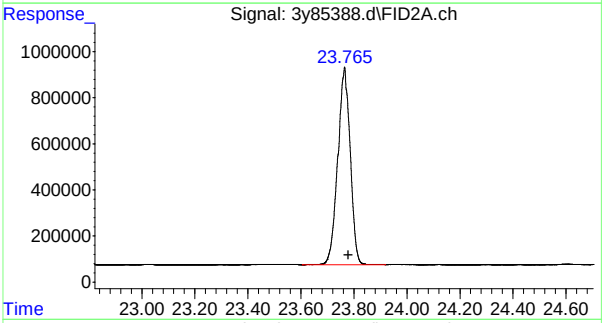
#46 C34

R.T.: 21.384 min
Delta R.T.: -0.004 min
Response: 28283154
Conc: 53.95 ug/L



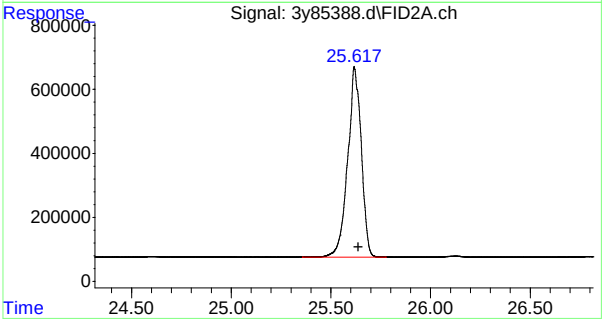
#47 C36

R.T.: 22.413 min
Delta R.T.: -0.010 min
Response: 28466091
Conc: 54.28 ug/L



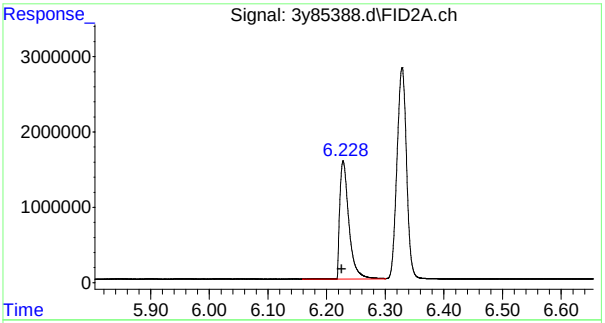
#48 C38

R.T.: 23.764 min
Delta R.T.: -0.014 min
Response: 27848283
Conc: 54.15 ug/L



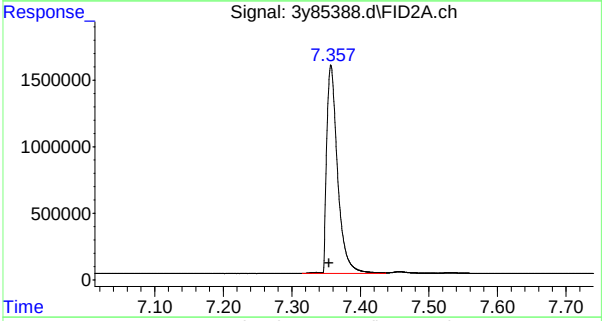
#49 C40

R.T.: 25.617 min
Delta R.T.: -0.020 min
Response: 28223142
Conc: 53.84 ug/L



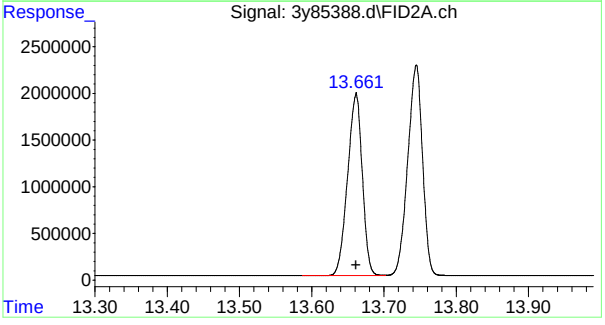
#53 Naphthalene (S)

R.T.: 6.229 min
Delta R.T.: 0.003 min
Response: 16945661
Conc: 26.33 ug/L



#54 2-Methylnaphthalene (S)

R.T.: 7.358 min
Delta R.T.: 0.003 min
Response: 17344117
Conc: 26.55 ug/L



#55 1-Chlorooctadecane (S)

R.T.: 13.661 min
Delta R.T.: 0.000 min
Response: 27504225
Conc: 52.26 ug/L

7.5.24

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C:\msdchem\1\data\g3y3349\3y85388.d

Hydrocarbon Range Total Response

Data File Name	**3y85388.d**
Date Acquired	**9/28/2022 19:16**
Sample Name	**cc3347-50**

	Name	Target Response	AvgRF	CCRF	%D
2)	Naphthalene	36185052			
4)	2-Methylnaphthalene	34962438			
5)	Acenaphthylene	33456514			
6)	Acenaphthene	36046596			
8)	Fluorene	33833159			
9)	Phenanthrene	32524399			
10)	Anthracene	31994773			
11)	Fluoranthene	30988278			
12)	Pyrene	31655580			
14)	Benzo(a)Anthracene	30522508			
15)	Chrysene	30591326			
16)	Benzo(b)Fluoranthene	30084329			
17)	Benzo(k)Fluoranthene	29035300			
18)	Benzo(a)Pyrene	29282309			
19)	Indeno(1,2,3-cd)Pyrene	29778714			
20)	Dibenzo(ah)Anthracene	31267217			
21)	Benzo(ghi)Perylene	29643301			
23)	C11-C22 Aromatics (Unadj.)	541851792	631209.0318	637472.7	-1.0
	SIGNAL #2				
28)	C9	29778211			
29)	C10	30775800			
30)	C12	31950418			
32)	C14	32461438			
33)	C16	32673736			
35)	C18	32696684			
36)	C19	33057310			
37)	C20	32408041			
40)	C22	31743639			
41)	C24	31124324			
42)	C26	30190397			
43)	C28	29538262			
44)	C30	29301332			
47)	C36	28466091			
51)	C9-C18 Aliphatics	190336285.7	610324.8207	634454.3	-4.0
52)	C19-C36 Aliphatics	245829395.9	587241.5002	614573.5	-4.7

SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3Y3347

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 9/22/22

Columns: DBUI8270D/DBUI82

Method: EPH

Initial Cal. Method: EPH 3Y3347

Injection Volume: 1.0 µL

Date Archived:

Standard Data

Lot #	Description	Conc.
SV21-2835-133	Aliphatic Stock	200ppm
-123	Aliphatic 2nd	200 ppm
223504	hexane (Fisher)	—

Standard Data

Lot #	Description	Conc.
SV21-2835-134	Aromatic Stock	200ppm
-124	Aromatic 2nd	200 ppm
223823	dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JL Date: 9/27/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	3Y85348	IB				51/1			/	OK	
	349	ICC3347-1				56/6	200x		/	OK	
	350	-2				57/7	100x		/	OK	
	351	-5				58/8	40x		/	OK	
	352	-10				59/9	20x		/	OK	
	353	-20				60/10	10x		/	OK	
	354	ICC3347-50				61/11	4x		/	OK	
	355	ICC3347-100				62/12	2x		/	OK	
	356	ICV3347-50	2nd			63/13	4x		/	OK	
	357	-50	3rd			64/14	2x		/	OK	SV21-2742-70 @ 100 ppm

TL
9/25

MTX = Matrix. Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

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Form: OR016-09
Rev. Date: 5/25/17

7.6.1

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3y 3348

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Date: 9/25/22

Columns: DBUI 8270D/DBUI 8270D

Method EPH

Initial Cal. Method EPH 3y3347

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.
SV 22-2428	16C Aliphatic Std	20 ppm
"	16D ↓	50 ppm
"	17C Aromatic Std	20 ppm
"	17D ↓	50 ppm

Standard Data

Lot #	Description	Conc.
	~~AROMATIC STOCK~~	
	~~AROMATIC 2nd~~	
	TL 9/25	
SV 22-2428-03	IB	50 ppm
223594	hexane (Fisher)	—
223823	dcm (Fisher)	—

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: YL Date: 9/27/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	3y85358	CC3347-20				52/2			/	ok	
	354	IB				51/1			/	ok	
	360	EPH Surrogate				56/6			/	OK	OP21.2742.104
	361	JD37704-5				57/7				ok	MDL ✓
	362	Fraction Test				58/8				ok	
	363	Hex				59/9				ok	
	364	JD51741-10	41814	MAEPH	W	60/10			/	ok	
	365	-11				61/11			/	ok	
	366	-12				62/12			/	ok	
	367	-13				63/13			/	ok	
	368	-14				64/14			/	ok	
	369	-15				65/15			/	ok	
	370	-16				66/16			/	ok	Fractioned @ 10x
	371	-18				67/17			/	ok	
	372	JD51949-13	41860	NJEPH	S	68/18			/	ok	
	373	OP41963-MB1	41903	MAEPH	S	69/19			/	ok	
	374	-BS1				70/20			/	ok	
	375	-BSD				71/21			/	ok	
	376	JD52068-1				72/22			/	ok	FRACTIONED @ 10X

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.

Sample volume/weight refer to extraction log.

All strikeouts must be initialed, dated, and reason applied if not transcription error

173

Form: OR016-09

Rev. Date: 5/25/17

7.6.2

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SEMIVOLATILE by GC ANALYSIS LOG

Batch ID: G3Y3348

Print Analyst Name: Arianna Kerrer

Date: 9/25/22

Analyst Signature: AK

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	see pg 173	

Columns: DBUI8270D/DBUI8270

Method EPH

Initial Cal. Method EPH3Y3317

Injection Volume: 1.0 ul

Date Archived:

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: TR Date: 9/27/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	3Y85377	OPH1903-MS				73/23			/	OK	FRACTIONED @10X
	378	-MSD				74/24			/	OK	FRACTIONED @10X
	379	hexane				75/25				OK	
	380	BS				76/26				OK	
	381	CC3347-50				53/3			/	OK	
	382	IB				51/1			/	OK	

TL 9/27

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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7.6.2

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GC ANALYSIS LOG

Batch ID: G3Y3349

Date: 9/28/22

Print Analyst Name: Thomas Lally

Analyst Signature: TL

Columns: DBUI8270D/PBUI8270D

Method EPH

Initial Cal. Method EPH3Y3347

Injection Volume: 1.0uL

Date Archived:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
SV 22-2428.16C	ALIPHATIC STD	20 ppm
.160	↓	50 ppm
.170	↓	20 ppm
.170	AROMATIC STD	50 ppm
	↓	

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 9/30/22

R	Data File	Sample ID	Ext. Batch	Test	MTX	ALS #	Dilution	IS	SU	Status (Data)	Comments
	3Y85383	Fraction Check				77/27				NG	cod in Aro
	384	CC3347-20				52/2				all	
	385	Fruc Test				78/1				ok	0.5mL NaD 0.5mL COD
	386	IB				51/1				all	
	387	OP41903-MSD				80/30				all	
	388	CC3347-50				53/3				all	
	389	IB				51/1				all	

MTX = Matrix . Designate W for water, S for soil, O for oil.. IS = Internal Standard Area. (if used) SU = Surrogate.
Sample volume/weight refer to extraction log.
All strikeouts must be initialed, dated, and reason applied if not transcription error

Form: OR016-09
Rev. Date: 5/25/17

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7.6.3

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LOGBOOK ID:

EPH Extraction Log - Solids

Date started: 9/20/2022 Time started: 10:35
Date finished: 9/22/22 Time finished: 19:30

Extract Method (CHECK OFF "√" /DO NOT CIRCLE):
Microwave SW3546 ✓ Sonication SW3550C____ Waste Dilution SW3580A____

BATCH # GC OP41903	RACK# R-57
Weighed by:	GL
Extracted by:	JD; IS; ES
Concentrated by:	GL, IS
Final Vol. Top-up:	
Vialed by:	YA
Supervisor Review:	

Special Client Spike Instructions

QC ID# for Special Spike	Amt to Spike	Spike ID	Lot #	Conc	Amt Spiked

Witness Sign:
Supervisor Approval:

Sample #	Analysis Type	Sample Bottle #	Sample Description	Sample Wt (g) Oil (g) Liq (mL)	Decant Y	Decant N	Sonicator ID	Microwave ID	Final Ext Color	Final Ext Vol (mL)	1st Fraction Initial	1st Fraction Color	Refraction Initial	Refraction Color	Comments
MB 1	MAEPH		sand	15.0			20		Clear	2.0	AC	Clear			
BS 1			sand	15.0			20		yellow	2.0	AC	Clear			
BSD			sand	15.0			20		yellow	2.0	AC	Clear			
JD52068-1 MS		1	mud	15.0		✓	20		Brown	10.0	AC	Clear			
1 MSD		1	mud	15.5		✓	20		Brown	10.0	AC	Clear			
BS			S												
DUP															
1 JD52068-1	MAEPH	1	mud	15.7		✓	20		Brown	10.0	AC				
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
13															
14															
15															
16															
17															
18															
19															
20															

Equipment/ Range	ID	Observed Temp (°C)	Correction Factor (°C)	Corrected Temp (°C)	Pressure/ Flowrate
Buchi (65-71°C)	1	65	–	–	OK
Buchi Chiller	B1	9.9	–	–	OK
Waterbath (70-80°C)					
Waterbath Chiller (GPM)					
NEVAP (32-38°C LPM)	2	35.1	—	—	OK
Balance	B-43	N/A	N/A	N/A	N/A

SURROGATE	LOT #	CONC (ppm)	AMT (mL)
EPH	212742-55	100	0.4
WITNESS SIGN YA		SPIKE SIGN ES	
Fraction	A0164239	10,000	10 uL
		SPIKE SIGN AC	

MATRIX SPIKE	LOT #	CONC (ppm)	AMT (mL)
DRO			
EPH	212742-98	100	0.5
WITNESS SIGN YA		SPIKE SIGN ES	

SOLVENT	LOT #	BRAND	AMT (mL)
~~Hexane~~ ~~Meth Chlor~~			
ACETONE	~~223504~~ 220511	~~Fisher~~ Fisher	300
METH CHLOR	223128	Fisher	Van
HEXANE	223504	Fisher	Van

REAGENT	LOT #	BAKE BATCH #	BRAND
HYDROMATRIX	198024	9.8.22	Agilent
SODIUM SULFATE	216394	9.9.22	Fisher
FILTER PAPER	11573895	—	Fisher
EPH CARTRIDGE			

MATRIX	LOT #	BAKE BATCH #	BRAND
SAND	1GD20030204A	7.18.22	Fisher
VIALS	22066107		Agilent

SPECIAL PROCESSING INSTRUCTIONS

Rx Reason:

Spiking:

Weights/Volumes:

Required MS/MSD:

Final Volume:

Other: HT: 9/29 Due: 9/21

Comments: QC Samples (MS, MSD, LINK and/or DUP, Link) Confirmed by:
• Poor Matrix ! Volume increased to 10 mL
▲Fraction @ 1:10 dilution

SGS
n: OP014-11
ate: 4/18/22

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General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JD52068
Account: TTCOD Tetra Tech
Project: R8 START: Valley Drive Abandoned Slurry, Kalispell, MT

Sample: JD52068-1 **Analyzed:** 19-SEP-22 by BG **Method:** SM2540 G 18TH ED MOD
ClientID: VDS-WS-02

Wet Weight (Total)	29.58	g
Tare Weight	23.53	g
Dry Weight (Total)	28.67	g
Solids, Percent	85	%